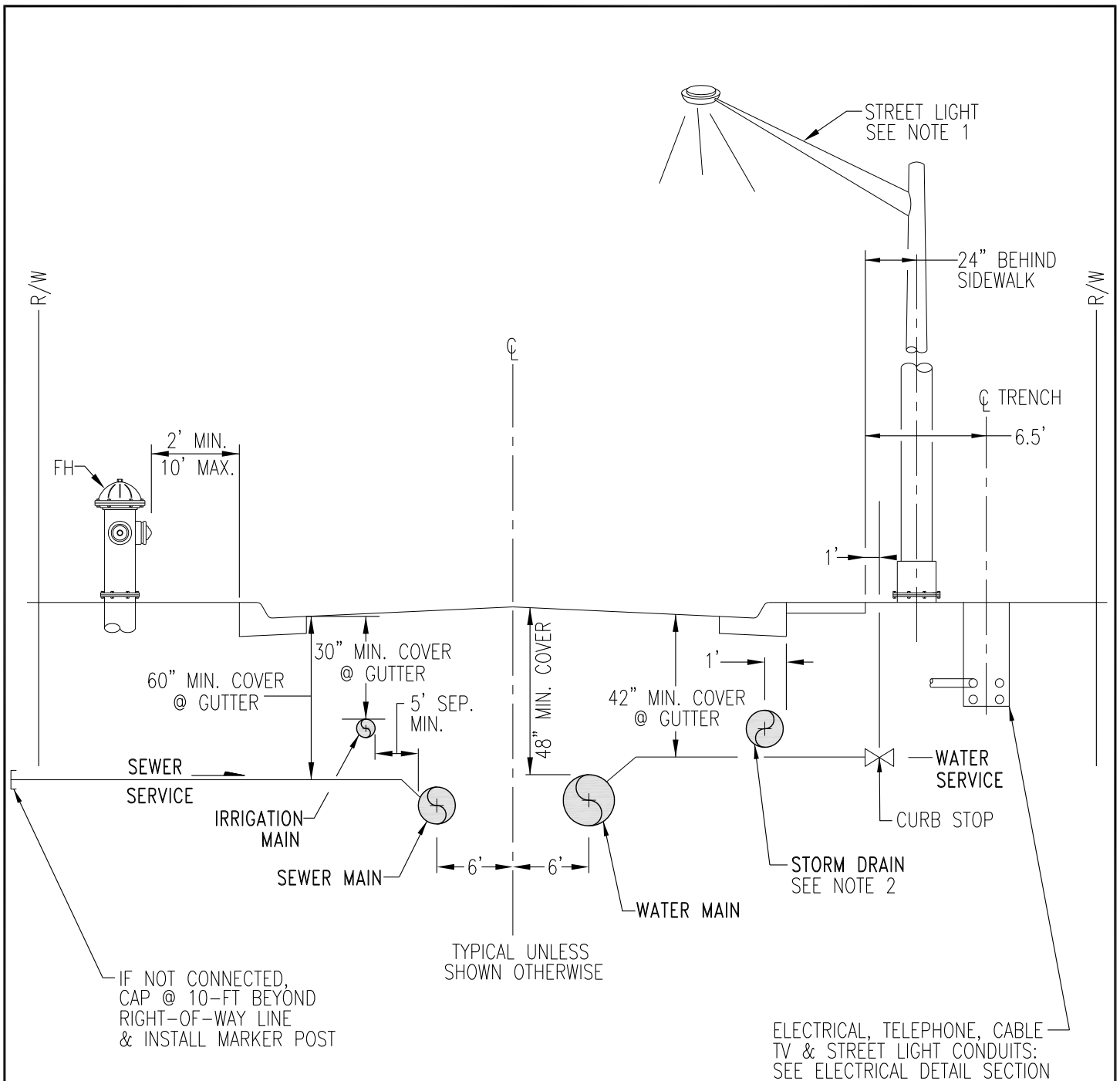


# Standard Details

## Utilities



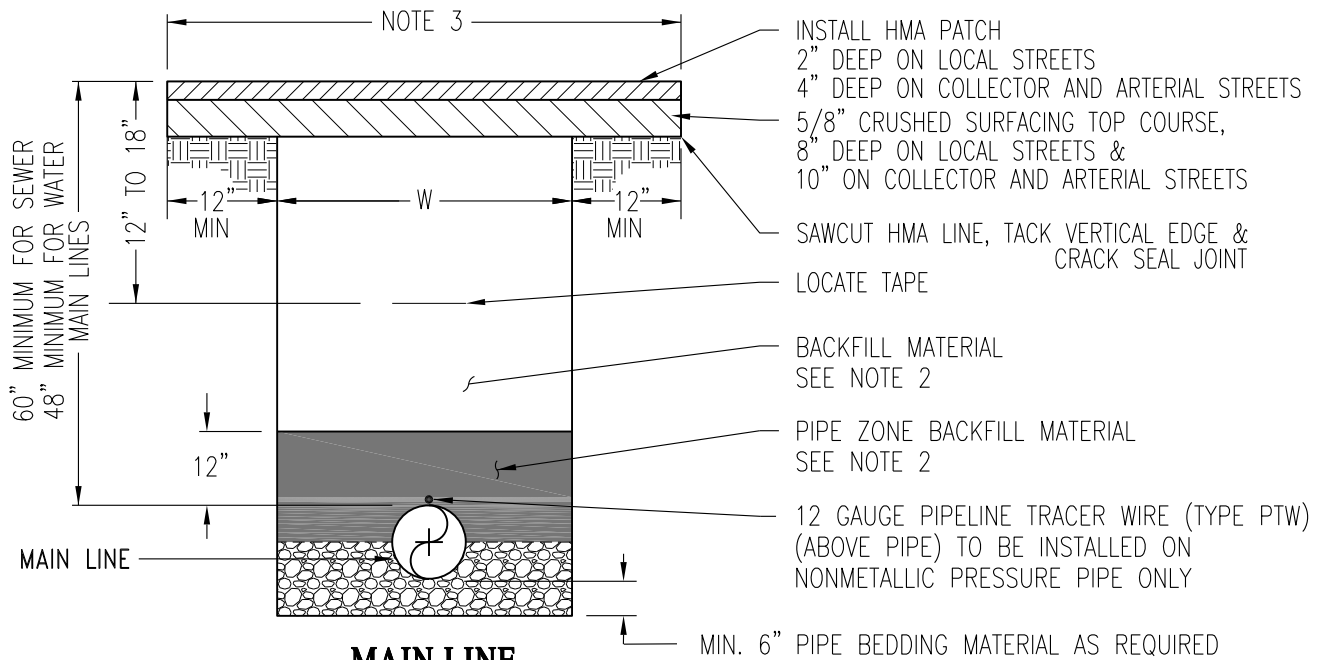
**NOTES:**

1. IF NO CURB AND GUTTER LIGHT POLE MUST BE A MINIMUM OF 12' FROM EDGE OF ROAD.
2. STORM LINE MAY BE INSTALLED 5' MINIMUM FROM THE WATER OR SEWER LINES ON EITHER SIDE OF THE STREET. PLANS SHALL BE SUBMITTED FOR APPROVAL BY CITY ENGINEER OR HIS REPRESENTATIVE.



**UTILITY PLAN  
TYPICAL  
SECTION**

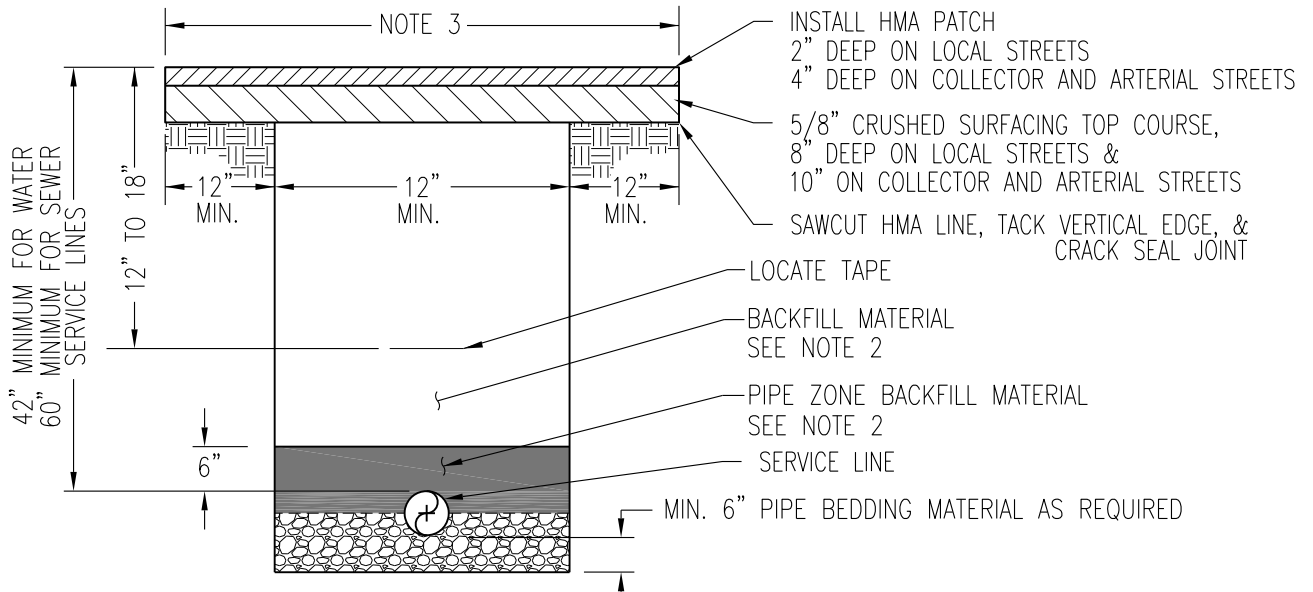
<b>PUBLIC WORKS ENGINEERING</b>	
APPR. BY: PKR	DATE: 12.2010
DRAWN BY: LD	DWG: U1
CAD FILE: 2012_U1_12_2010	



**MAIN LINE**  
NOT TO SCALE

**NOTES:**

1. TRENCH WIDTH "W" SHALL BE 40" MINIMUM FOR 15" DIAMETER AND SMALLER PIPES AND 1 1/2 TIMES THE INSIDE DIAMETER PLUS 18" MINIMUM FOR 18" AND LARGER PIPES.
2. 5/8" CRUSHED SURFACING TOP COURSE BACKFILL MATERIAL REQUIRED ON SMALL TRENCH REPAIR UTILITY PROJECTS, UNLESS DIRECTED OTHERWISE BY THE ENGINEER. FOR CITY OF RICHLAND CAPITAL IMPROVEMENT PROJECTS AND SUBDIVISIONS SECTION 7-08 OF THE WSDOT STANDARD SPECIFICATIONS SHALL APPLY.
3. HMA PATCH LIMITS SHALL MEET THE REQUIREMENTS OF RICHLAND MUNICIPAL CODE 12.08.065. MINIMUM 6 FT WIDE.

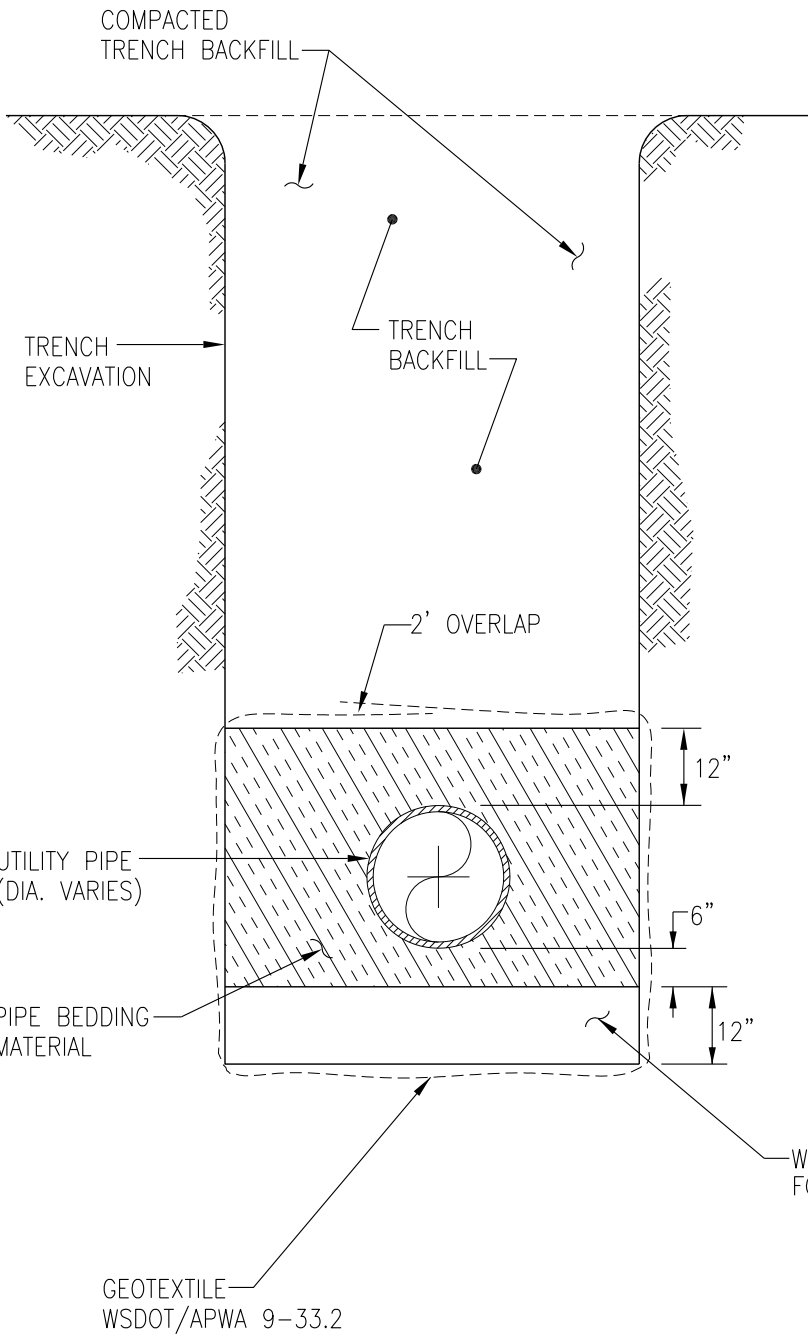


**SERVICE LINE**  
NOT TO SCALE



**TRENCH DETAIL**

PUBLIC WORKS ENGINEERING	
APPR. BY: SAW	DATE: 01.24
DRAWN BY: JLR	DWG: U2
CAD FILE: 2014_U2_01_2024	



THE ON-SITE SOILS MAY BE USED FOR COMPACTED TRENCH BACKFILL.

PIPE BEDDING MATERIAL SHALL CONFORM TO THE WSDOT/APWA STANDARD SPECIFICATIONS 9-03.9(3) TOP COURSE

ALL PIPE BEDDING SHOULD BE WRAPPED IN A NON-WOVEN GEOTEXTILE FABRIC. THE GEOTEXTILE SHALL HAVE A NOMINAL WEIGHT OF AT LEAST 6 OUNCES PER SQUARE YARD. THE GEOTEXTILE SHALL EXTEND ACROSS THE BOTTOM OF THE TRENCH, UP THE SIDES OF THE TRENCH, AND SHALL OVERLAP AT LEAST 2 FEET ON THE TOP OF THE TRENCH.



# GROUND WATER TRENCH DETAIL

PUBLIC WORKS ENGINEERING

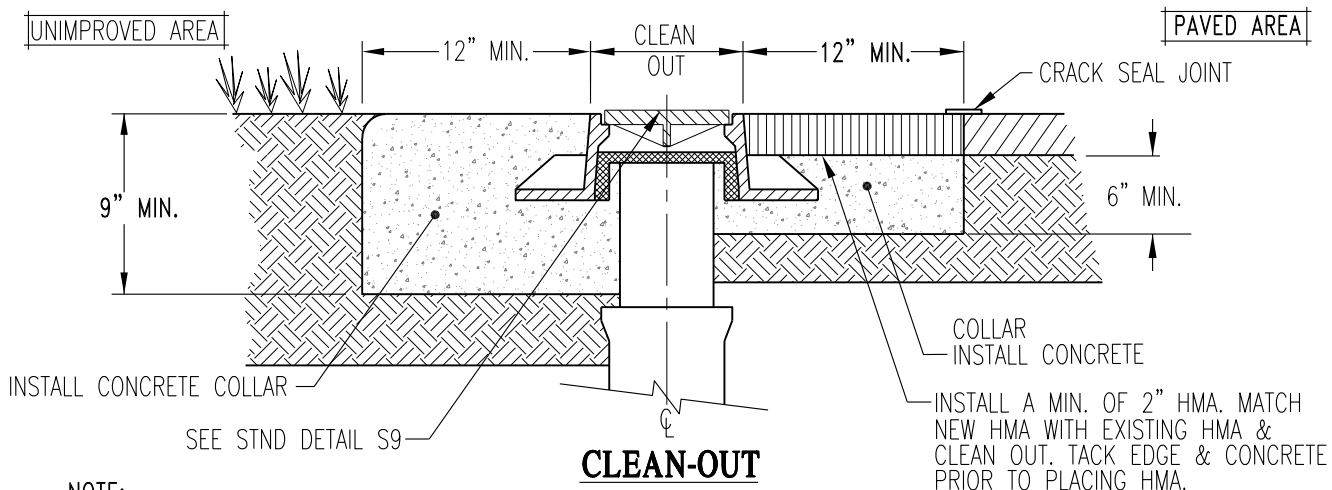
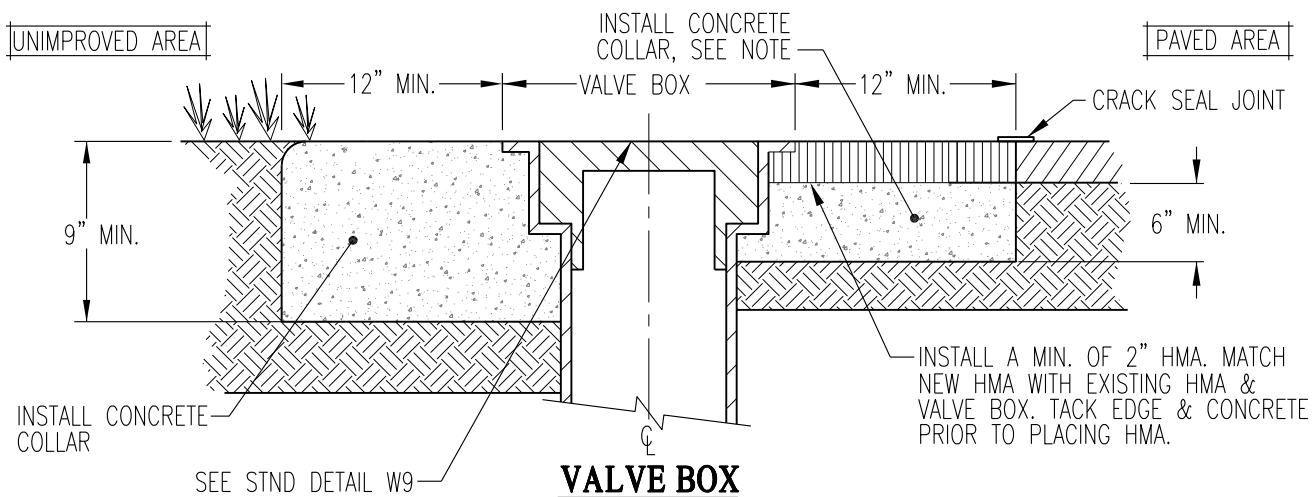
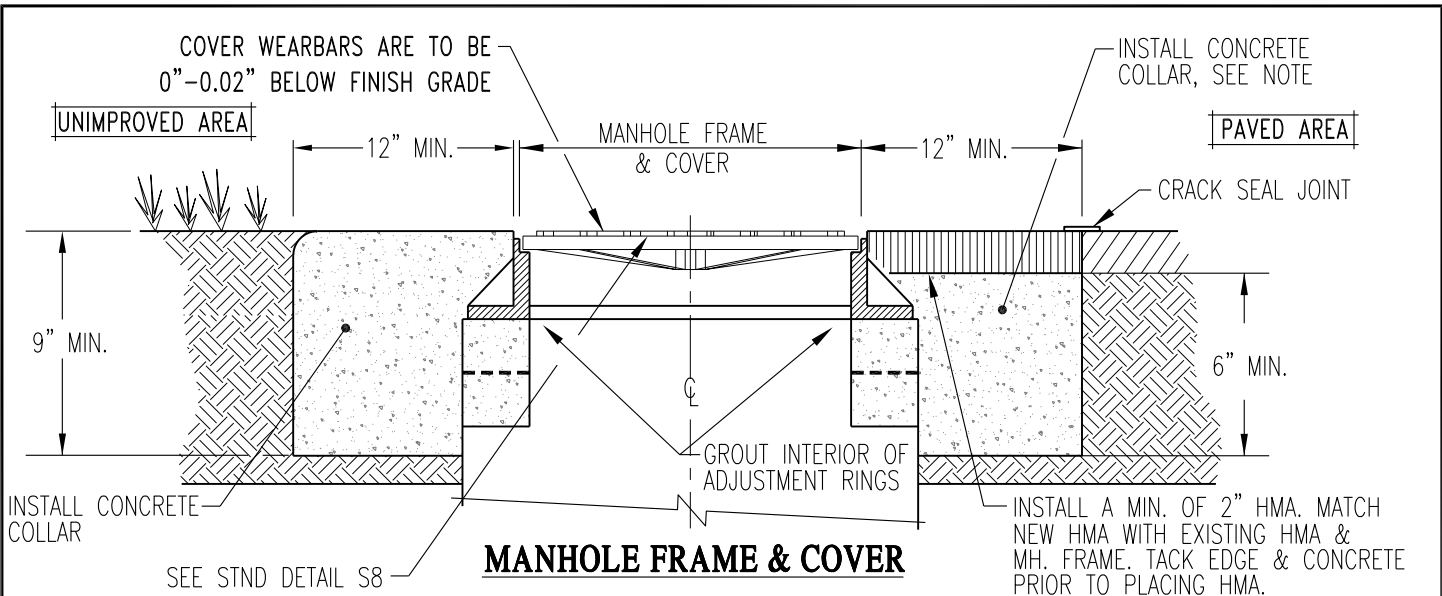
APPR. BY: PKR

DATE: 12.2010

DRAWN BY: LD

DWG: U3

CAD FILE: 2012\_U3\_12\_2010



**NOTE:**

A CIRCULAR OR SQUARE SHAPED CONCRETE COLLAR IS REQUIRED ON ALL INSTALLATIONS. CONCRETE COLLAR SHALL EXTEND A MINIMUM OF 3" BELOW TOP SECTION OF MANHOLE FRAME, COVERING ALL ADJUSTMENT RINGS.



**UTILITY ADJUSTMENTS**

PUBLIC WORKS ENGINEERING

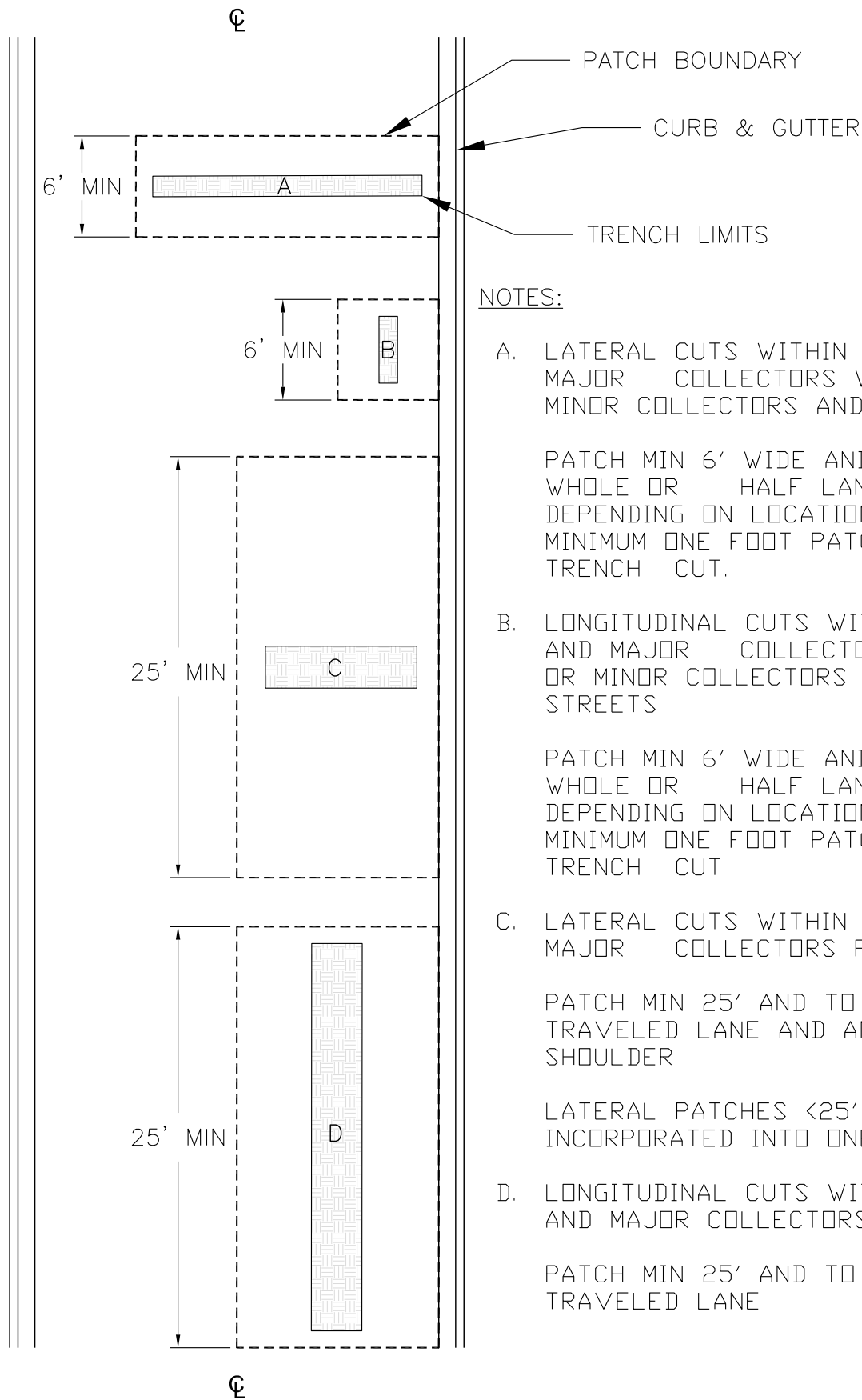
APPR. BY: SAW

DATE: 01.24

DRAWN BY: JLR

DWG: U4

CAD FILE: 2012\_U4\_01\_2024



NOTES:

- A. LATERAL CUTS WITHIN ARTERIAL AND MAJOR COLLECTORS WITH PCI <75 OR MINOR COLLECTORS AND LOCAL STREETS

PATCH MIN 6' WIDE AND TO INCLUDE WHOLE OR HALF LANE WIDTH DEPENDING ON LOCATION OF TRENCH. MINIMUM ONE FOOT PATCH BEYOND TRENCH CUT.

- B. LONGITUDINAL CUTS WITHIN ARTERIAL AND MAJOR COLLECTORS WITH PCI <75 OR MINOR COLLECTORS AND LOCAL STREETS

PATCH MIN 6' WIDE AND TO INCLUDE WHOLE OR HALF LANE WIDTH DEPENDING ON LOCATION OF TRENCH. MINIMUM ONE FOOT PATCH BEYOND TRENCH CUT

- C. LATERAL CUTS WITHIN ARTERIAL AND MAJOR COLLECTORS PCI ≥75

PATCH MIN 25' AND TO INCLUDE FULL TRAVELED LANE AND ANY DISTURBED SHOULDER

LATERAL PATCHES <25' APART SHALL BE INCORPORATED INTO ONE PATCH.

- D. LONGITUDINAL CUTS WITHIN ARTERIAL AND MAJOR COLLECTORS PCI ≥75

PATCH MIN 25' AND TO INCLUDE FULL TRAVELED LANE

\*EXAMPLE ONLY. PLEASE REFER TO RMC 12.08.065 AND STANDARD DETAIL U2



# PATCH DETAIL

PUBLIC WORKS ENGINEERING

APPR. BY: PKR

DATE: 08.23

DRAWN BY: JLR

DWG: U5

CAD FILE: 2023\_U5\_08\_2023