

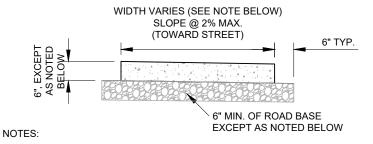
#### NOTES:

- THIS CROSS SECTION IS ONLY FOR COMMERCIAL, INDUSTRIAL ZONES AND TEMPORARY TURNAROUNDS.
- 2. THE USE OF THIS CROSS SECTION IS SUBJECT TO APPROVAL OF THE CITY ENGINEER

### MODIFIED CURB & GUTTER (MOUNTABLE TYPE)

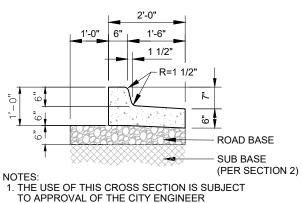
#### NOTES:

- 1. PLACE EXPANSION JOINTS (JOINT FILLER MATERIAL) EVERY 50' ALONG CURB, GUTTER & SIDEWALK SECTIONS. JOINTS TO BE PLACED THE FULL DEPTH OF CONCRETE PLUS 1", FLUSH WITH TOP OF CONCRETE.
- 2. CONTRACTION JOINTS ALONG CURB & GUTTER SECTIONS SHOULD BE PLACED AT INTERVALS NOT TO EXCEED 10'.
- 3. CONTRACTION JOINTS ALONG SIDEWALK SECTIONS SHOULD BE PLACED AT INTERVALS MATCHING THE SIDEWALK WIDTH, EXCEPT WITH VERY WIDE CONCRETE SECTIONS WHERE CONTRACTION JOINT SPACING SHALL NOT EXCEED 2 TIMES THE SLAB THICKNESS IN FEET. FOR EXAMPLE THE MAXIMUM JOINT SPACING FOR A 4" THICK CONCRETE SLAB WOULD BE 8 FEET.
- 4. WHEN CURB, GUTTER OR SIDEWALK MUST BE REMOVED & REPLACED, FOLLOW WRITTEN GUIDELINES IN SECTION 5.

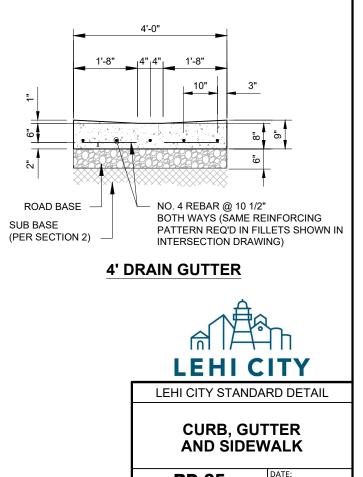


- 5' SIDEWALK WIDTH WHEN USED IN CONJUNCTION WITH PLANTER.
  5' SIDEWALK WIDTH AGAINST CURB & GUTTER.
  6' SIDEWALK WIDTH WHEN USED AGAINST A CURB & GUTTER WITHIN A
  - 6 SIDEWALK WIDTH WHEN USED AGAINST A CURB & GUTTER WITHIN A PARKING LOT.
- 2. SIDEWALK THICKNESS MAY BE 5" AND ROAD BASE THICKNESS 4" OUTSIDE OF SUBDIVISIONS IN AREA WITH NO ACCESSES AS APPROVED BY THE REVIEWING DEPARTMENTS.

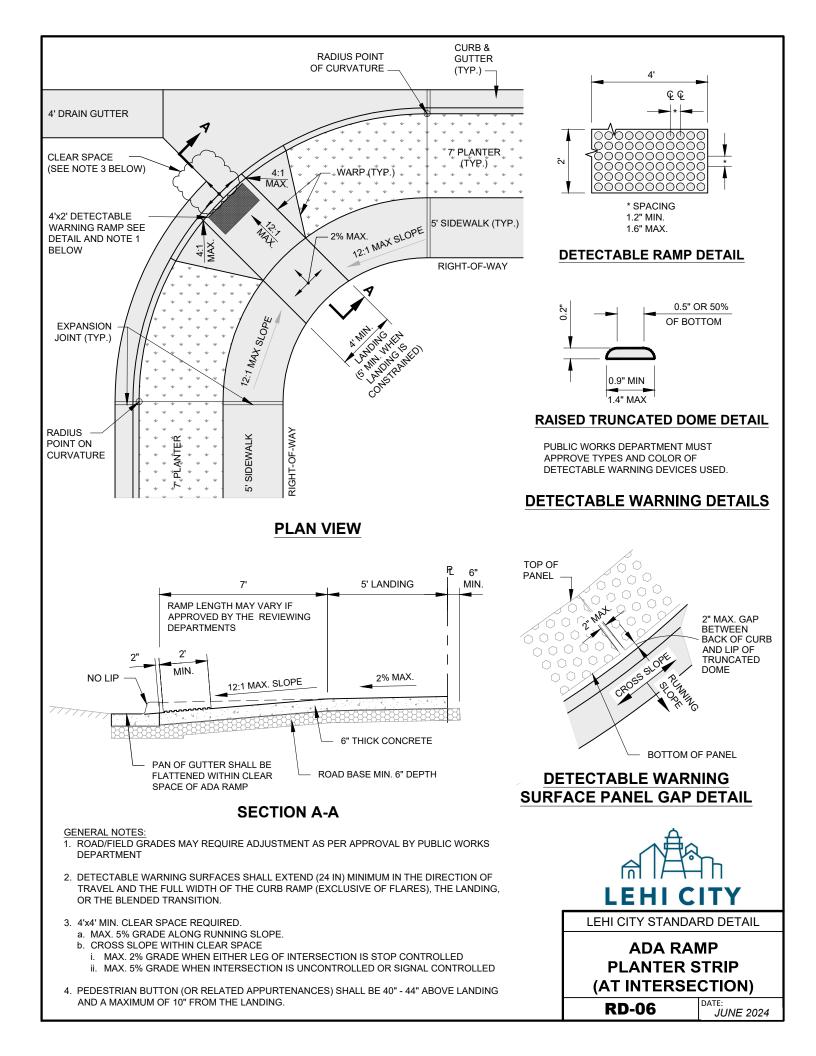


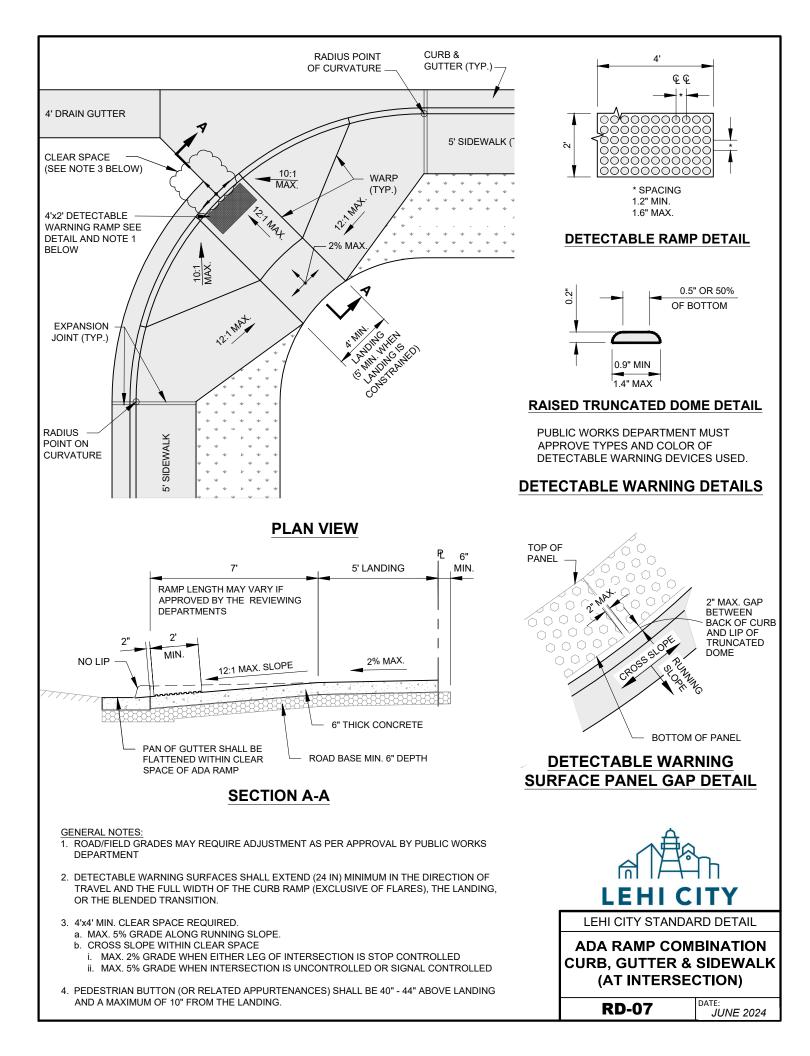


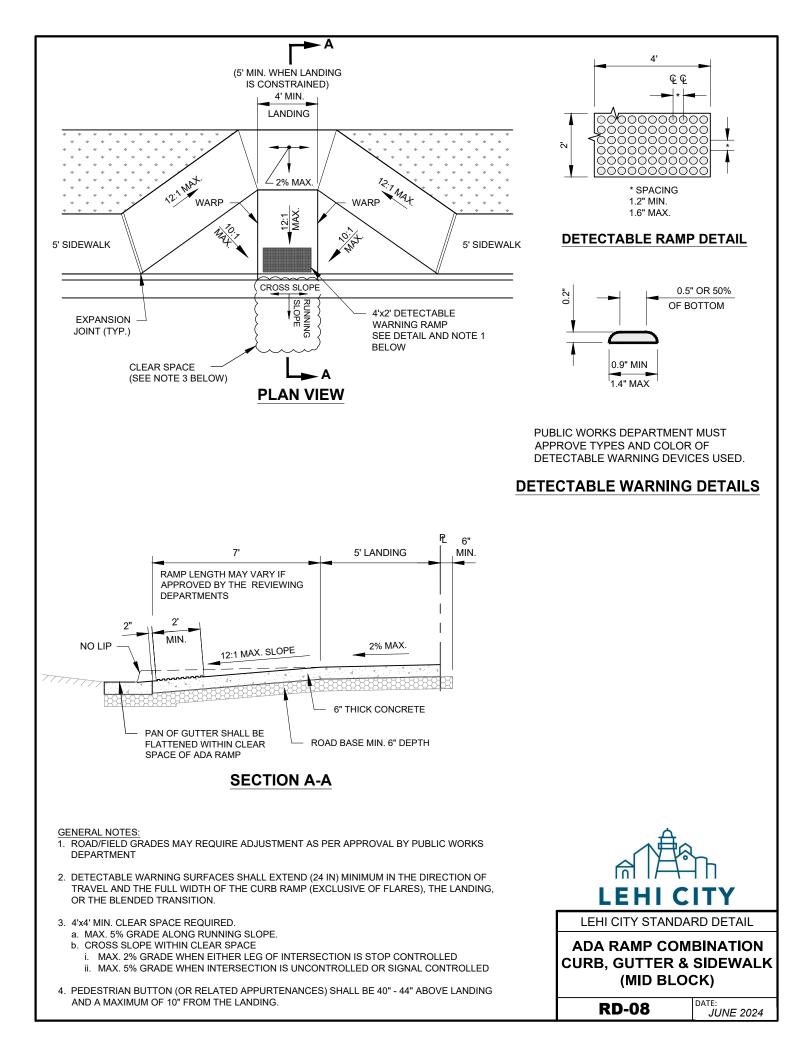
### **REVERSE SLOPE CURB & GUTTER**

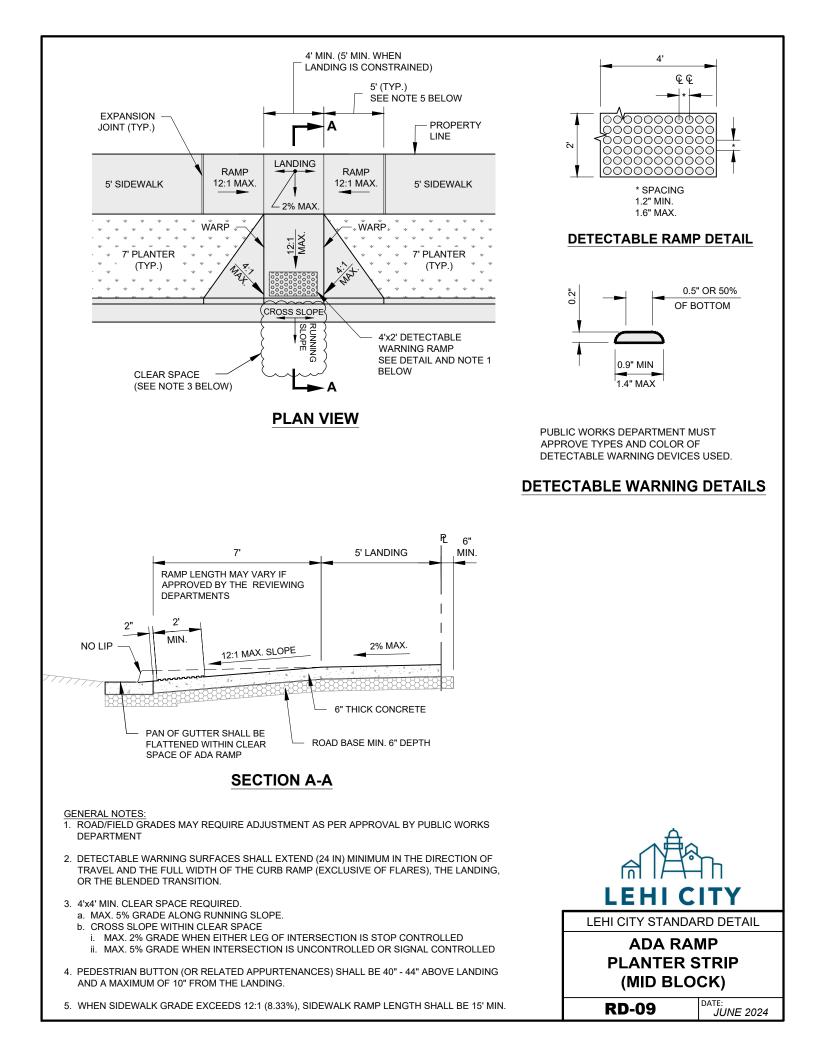


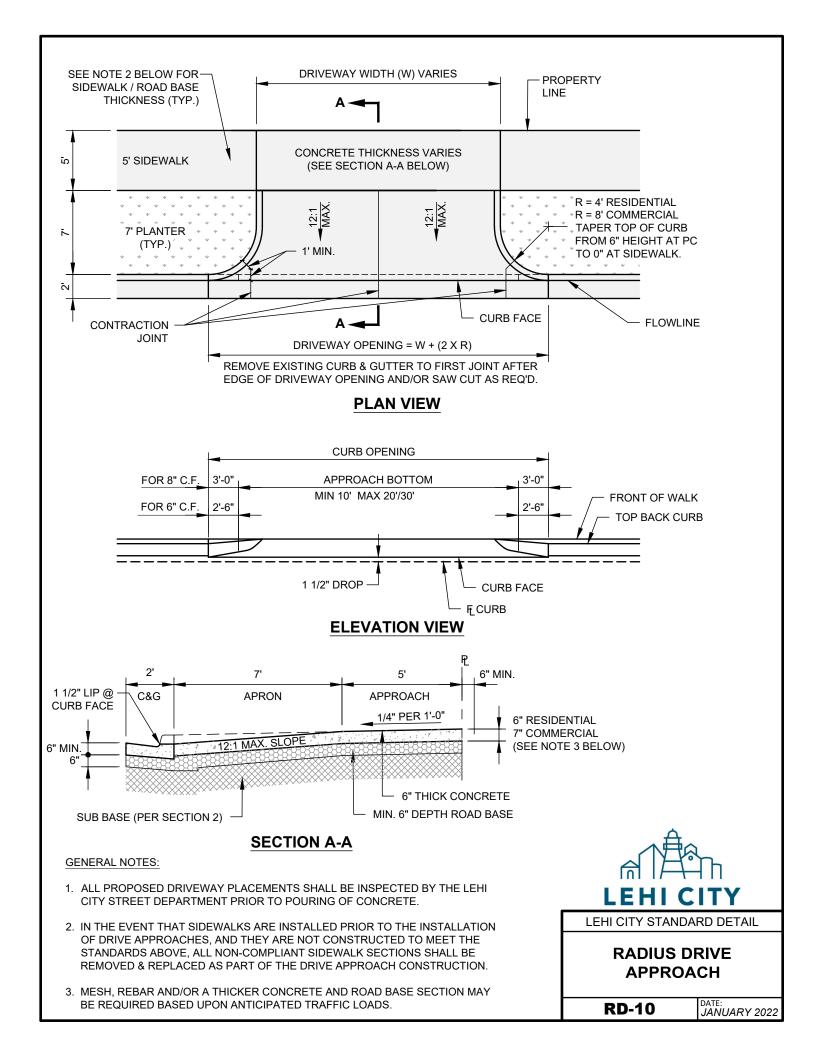
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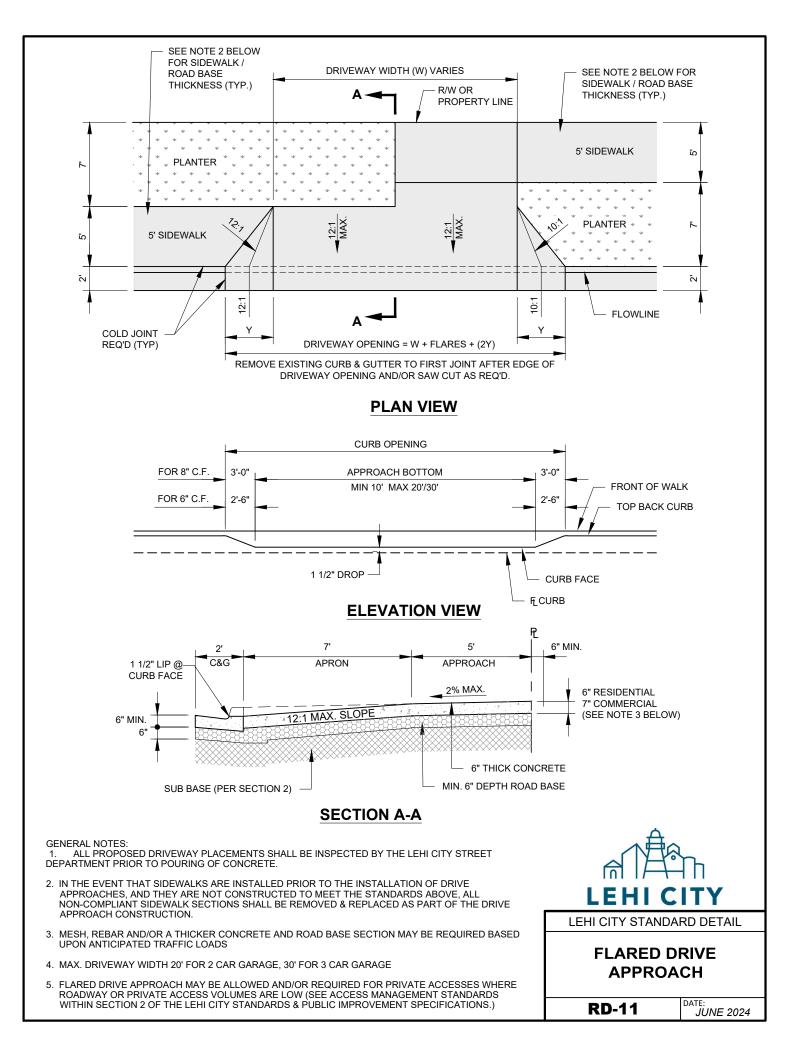


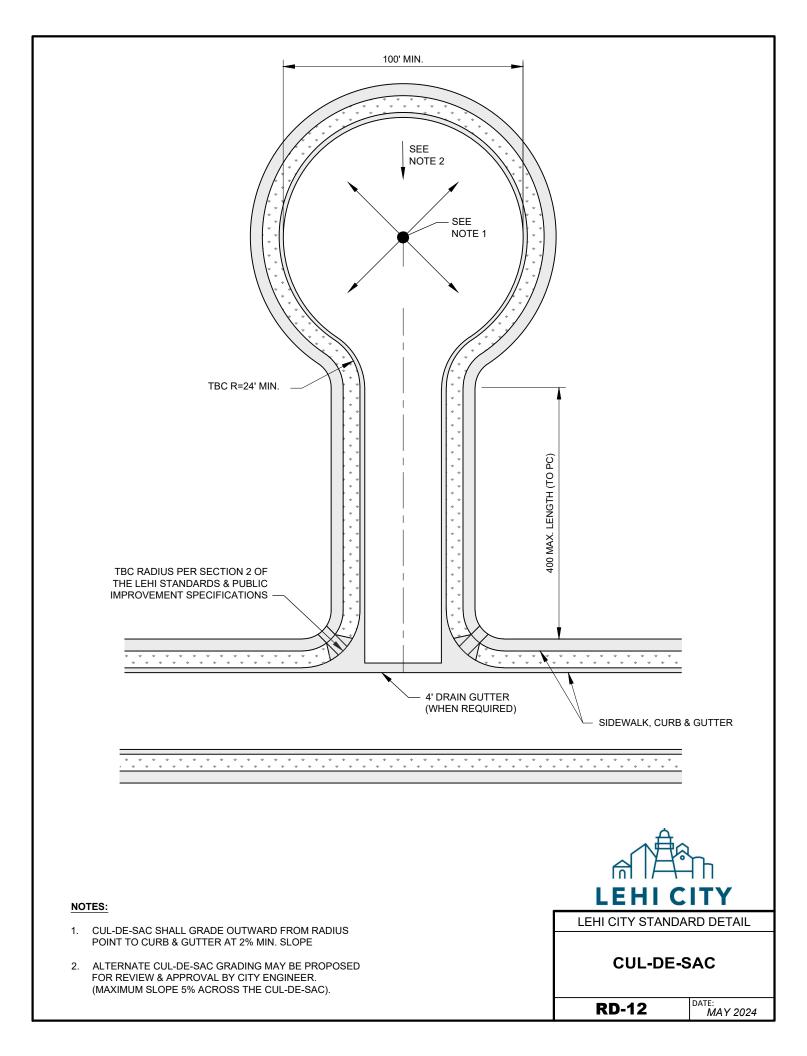


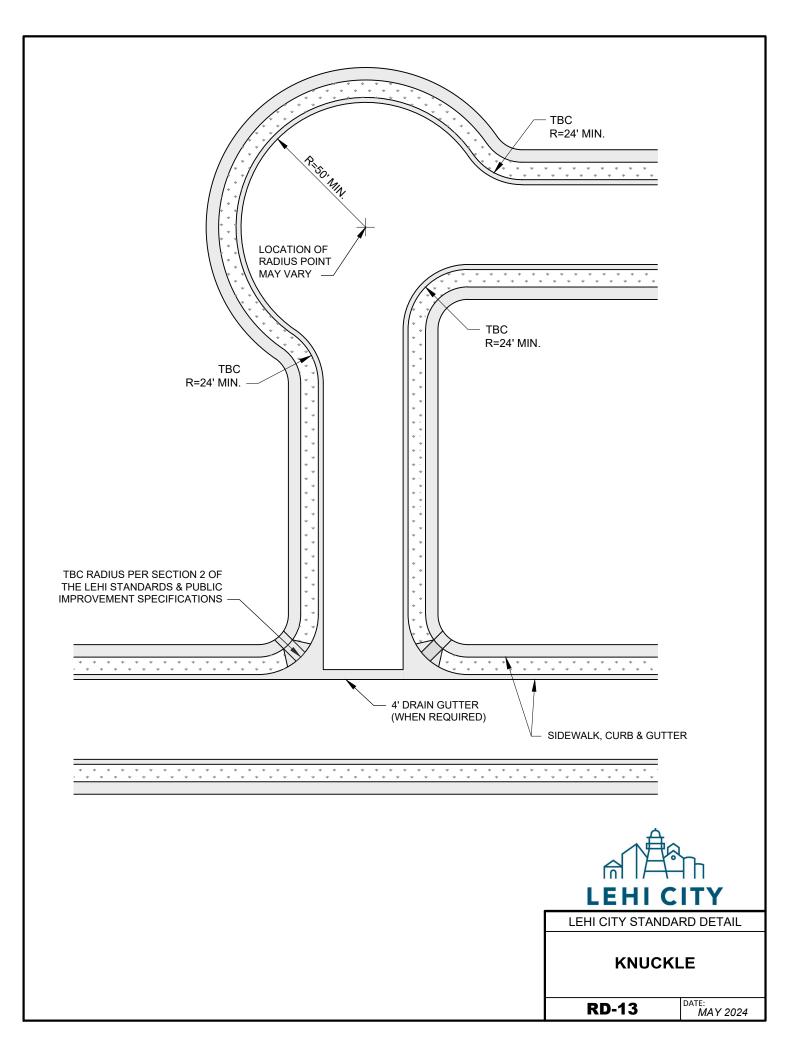


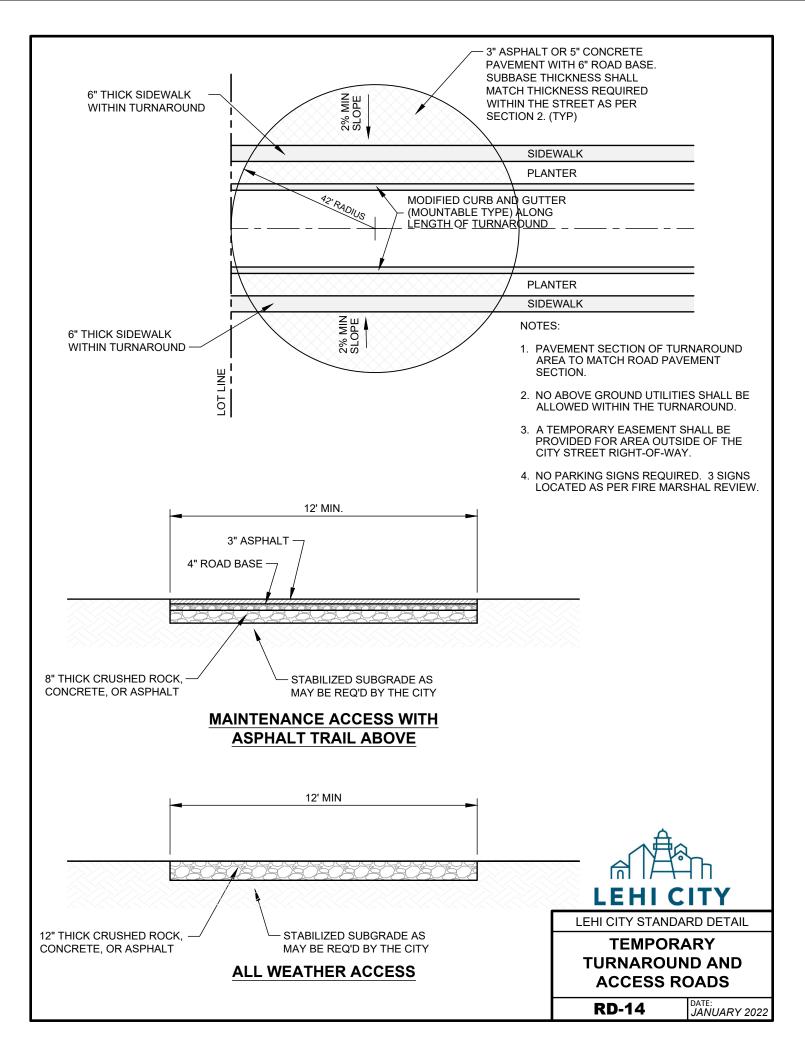


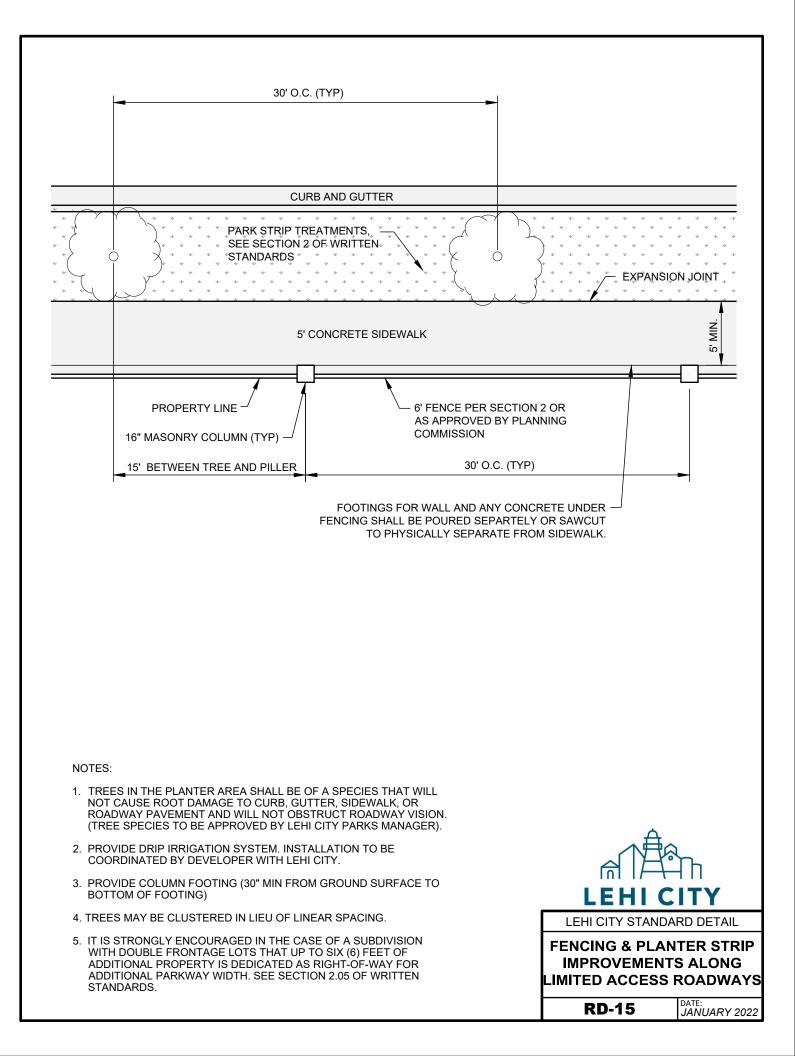


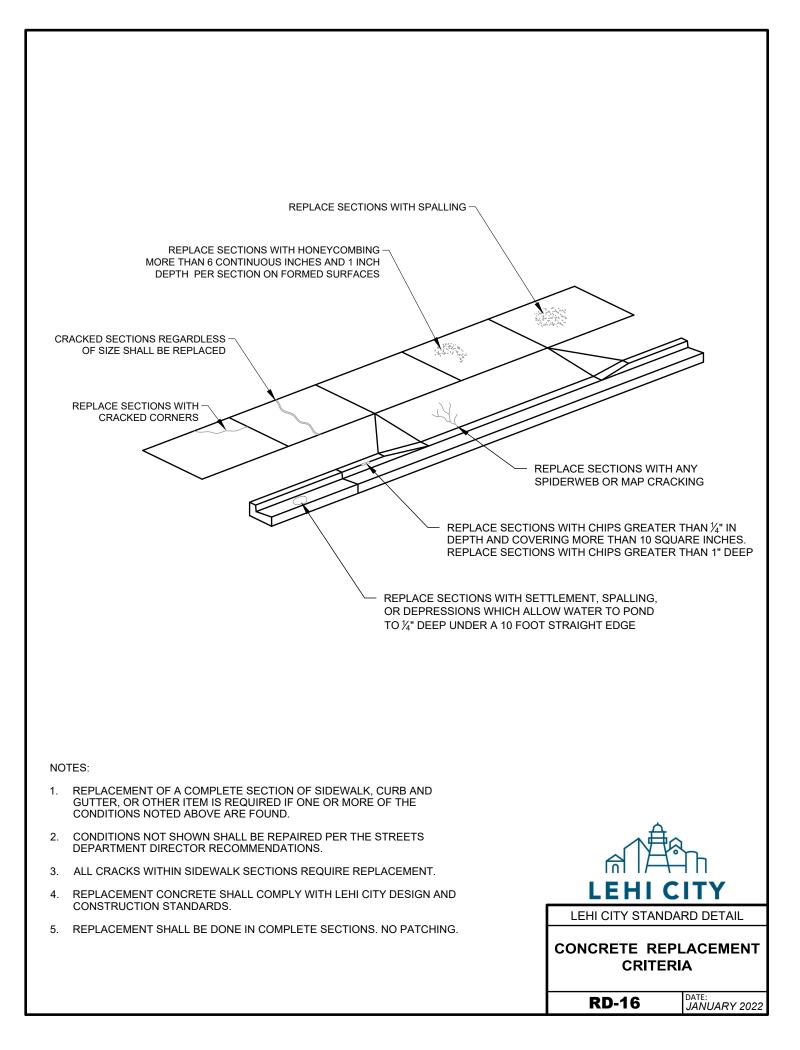


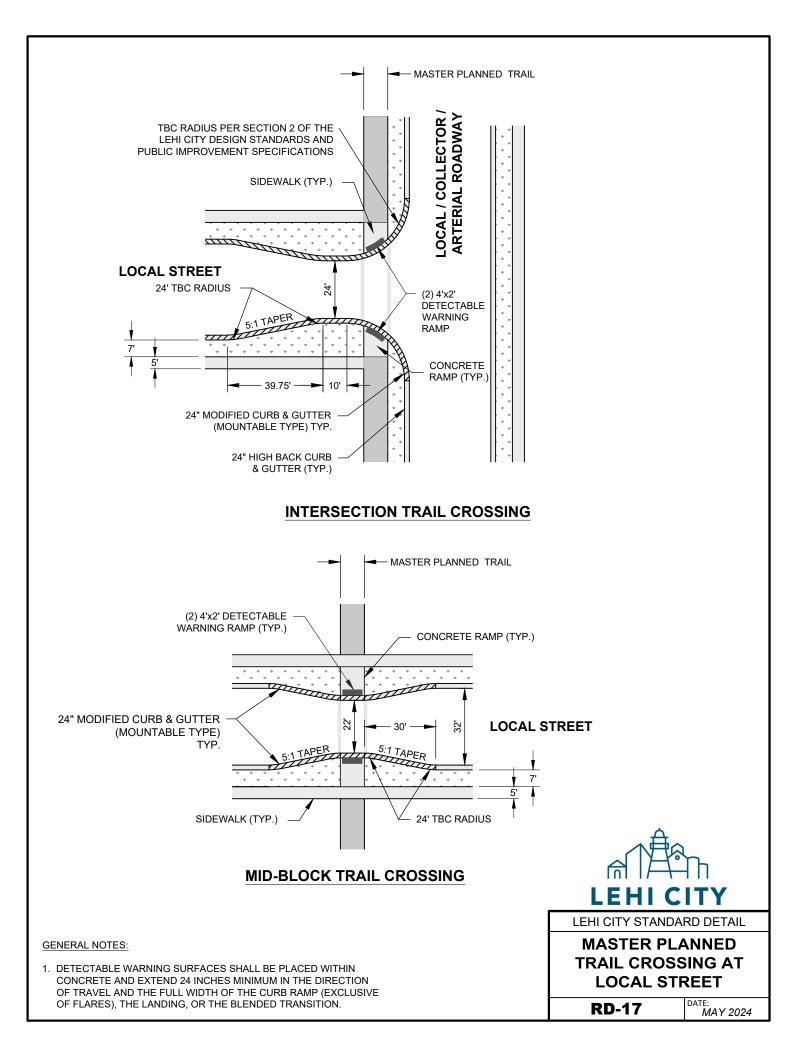


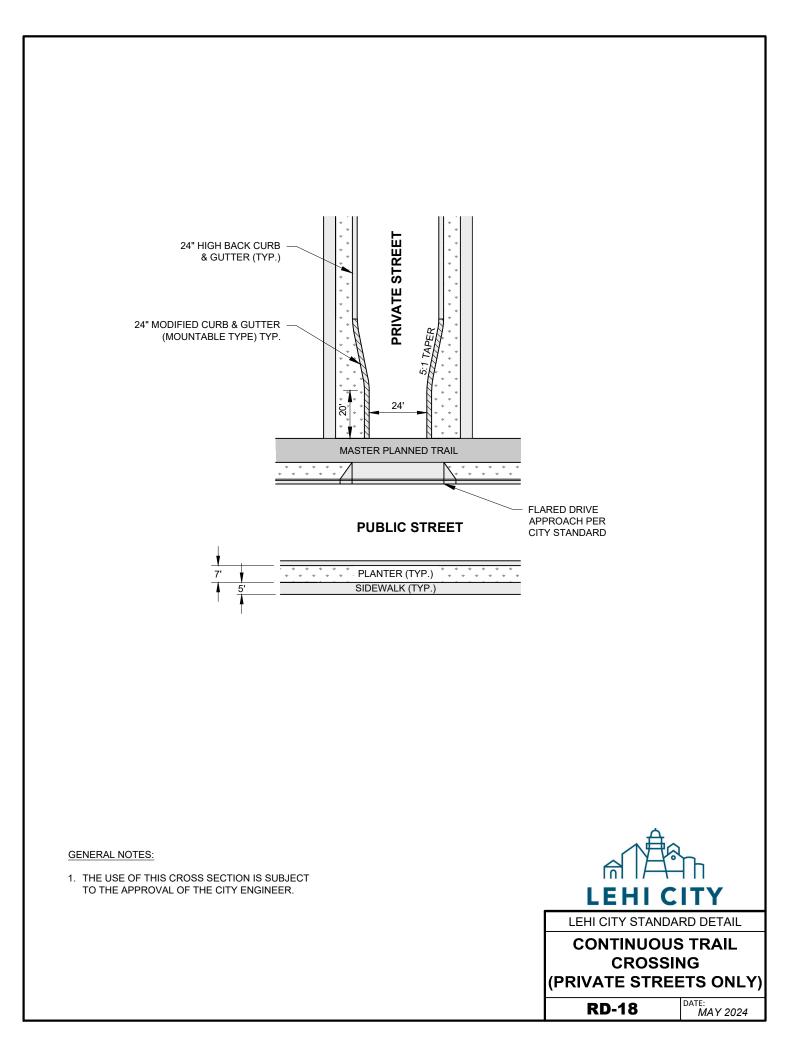


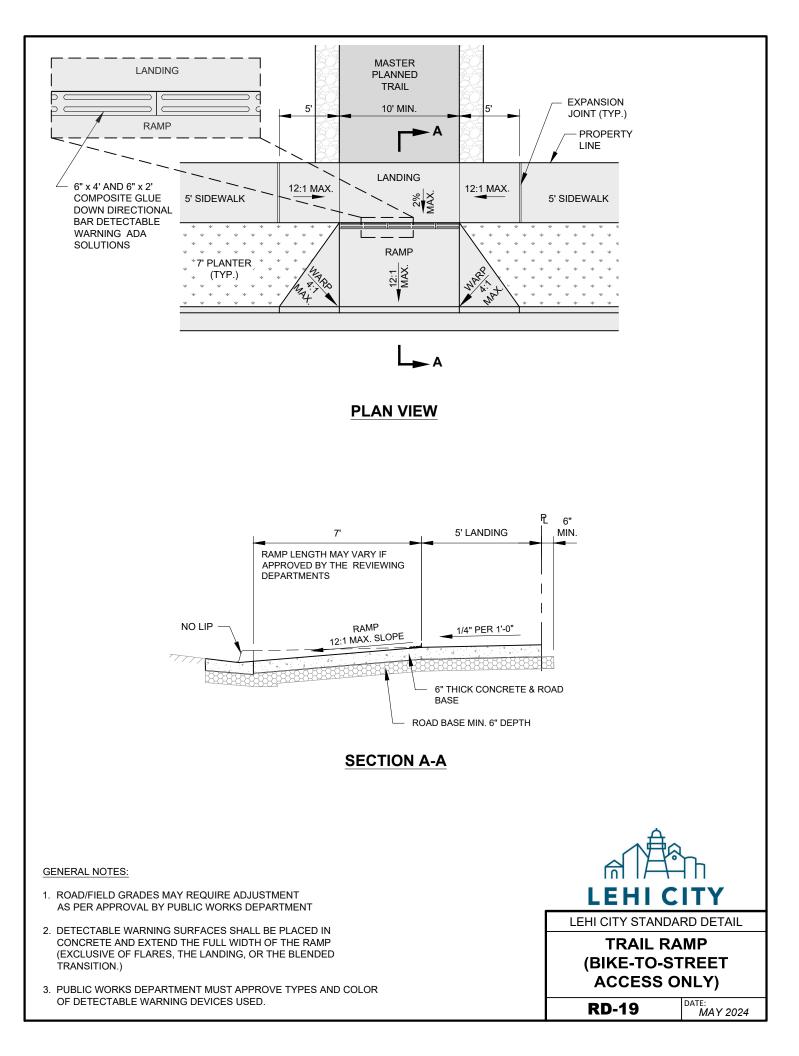


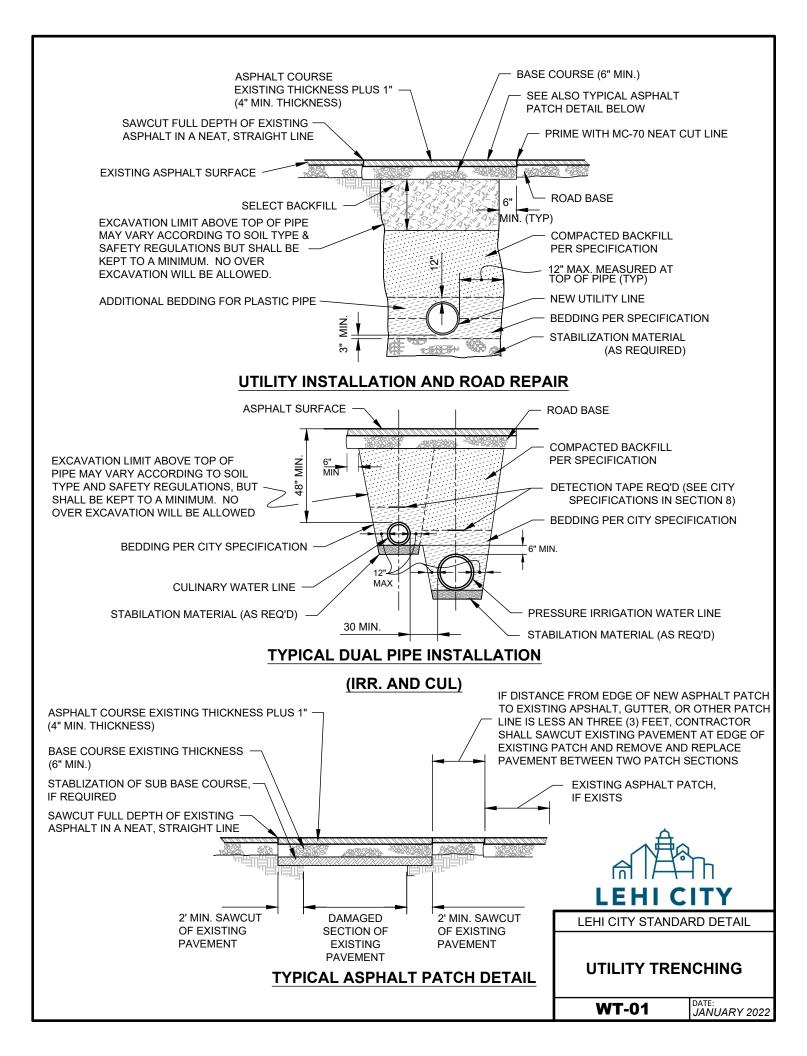


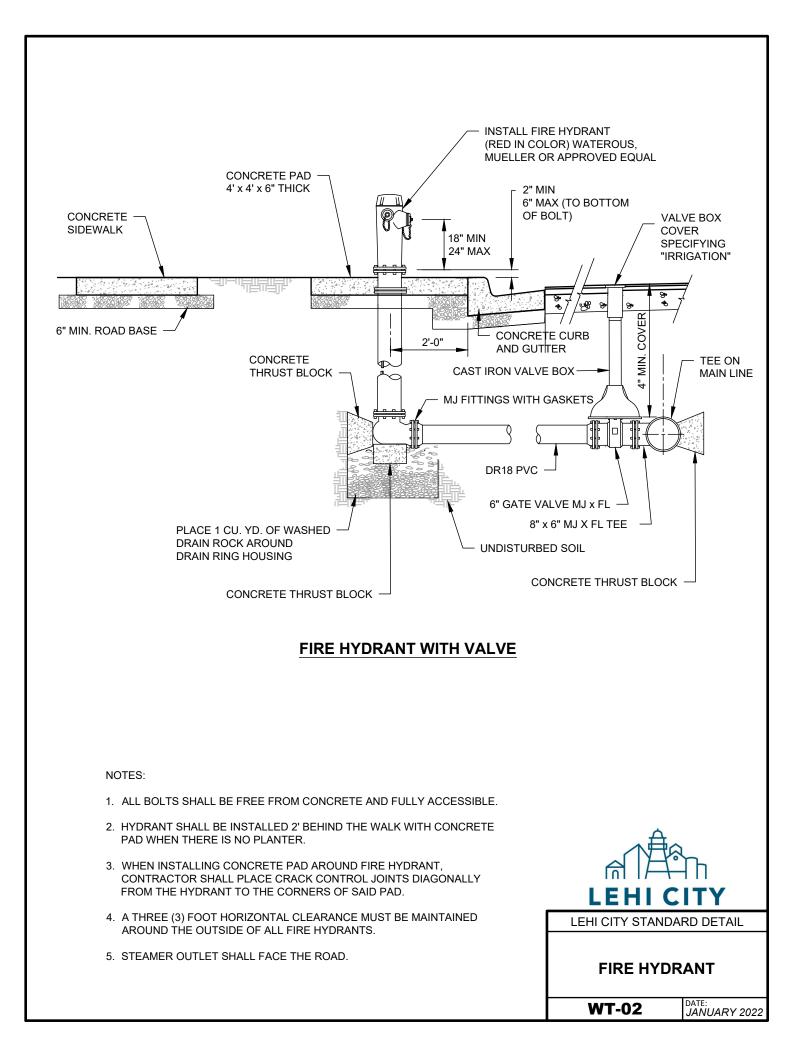


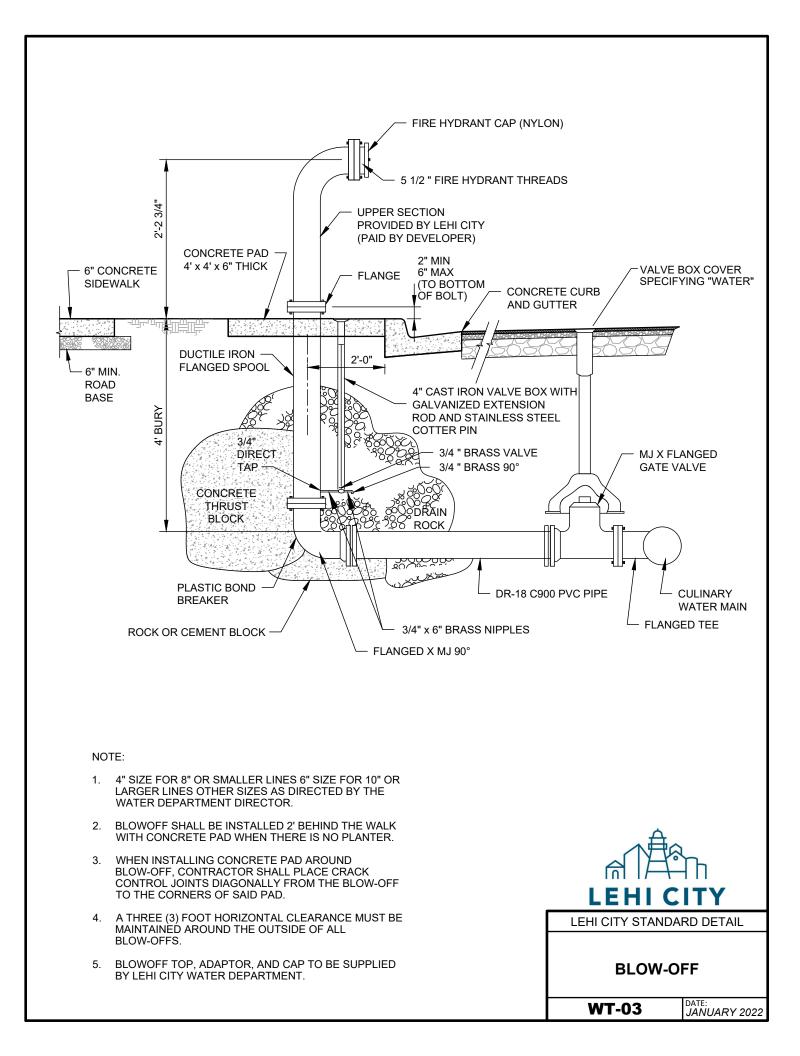


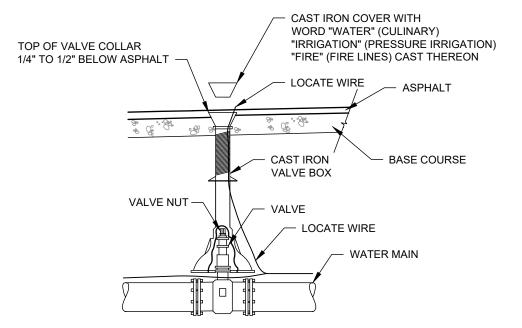








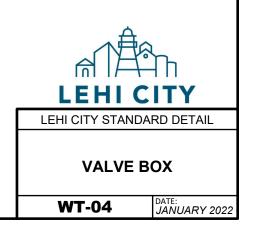


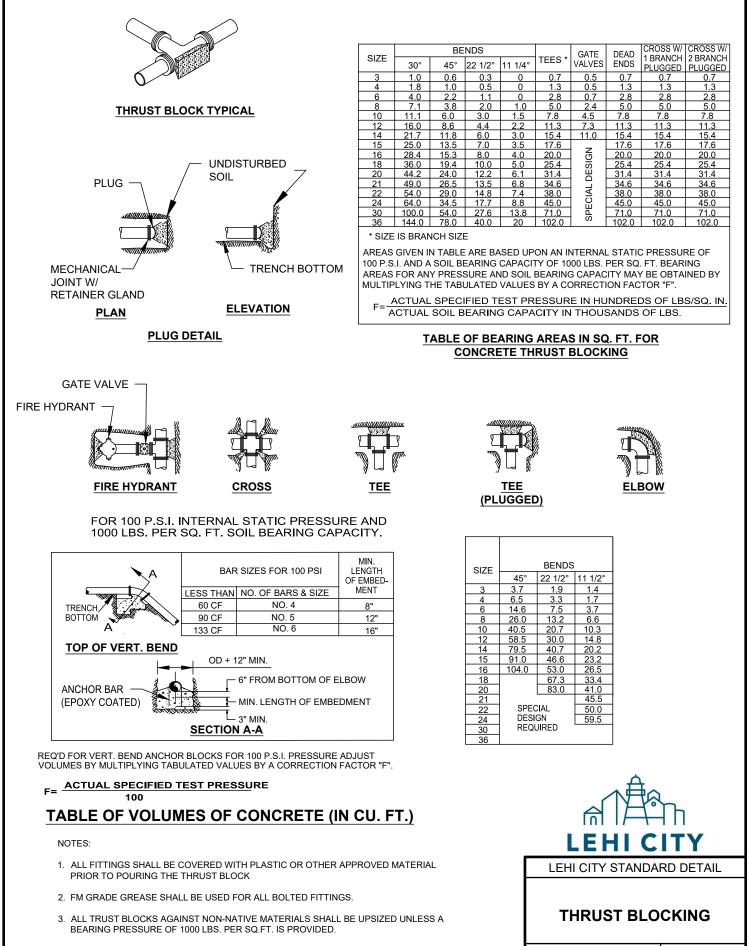


### NOTES:

1. TOP OF VALVE COLLAR SHALL BE SET TO FINAL GRADE PRIOR TO PAVING. CONCRETE COLLARS MAY BE ALLOWED ONLY AFTER PRIOR APPROVAL OF LEHI CITY STREET DEPARTMENT. IF APPROVED, VALVE COLLARS SHALL BE 12" MIN. WIDE (FROM EDGE OF COLLAR), 12" THICK AND 1/4" TO 1/2" BELOW ASPHALT.

2. IN NON PAVED AND PLANTER STRIP AREAS, A 4' x 4' x 6" THICK CONCRETE PAD MUST BE PROVIDED FLUSH WITH THE TOP OF THE VALVE BOX.

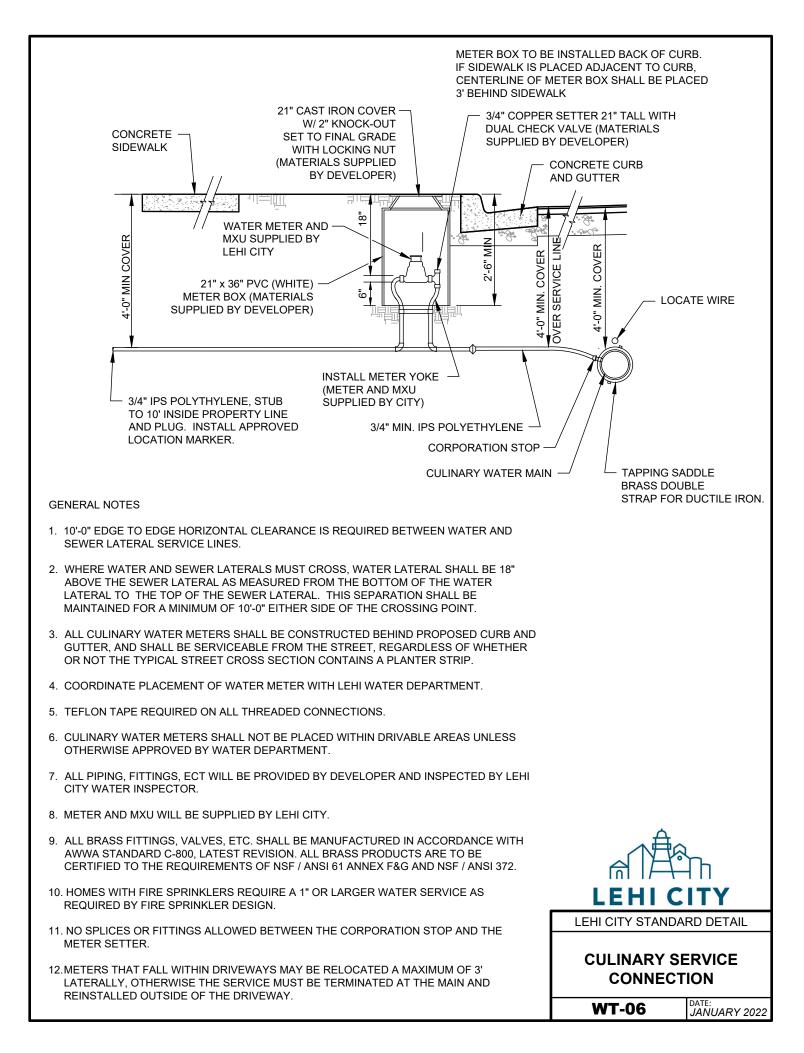


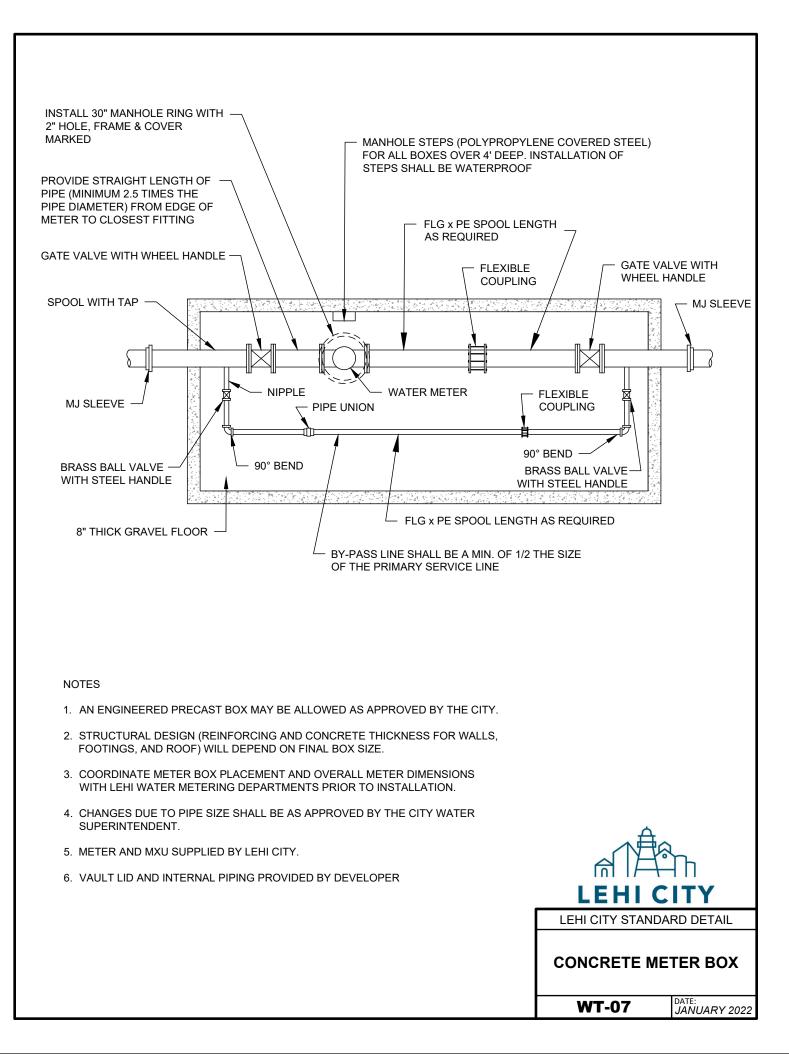


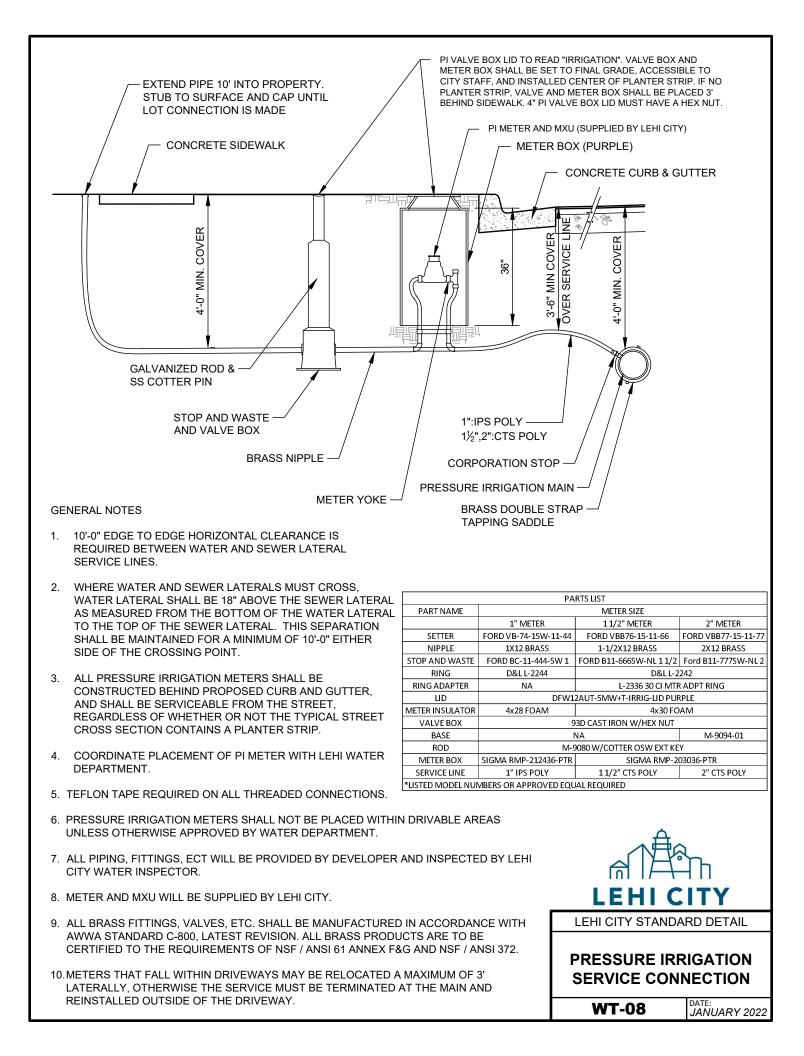
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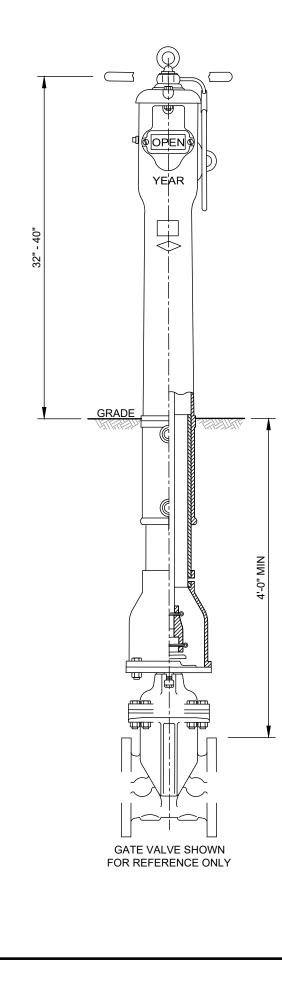
JANUARY 2022

4. POST MIX OR SAC-CRETE IS NOT ALLOWED FOR THRUST BLOCKS.



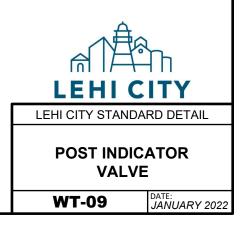


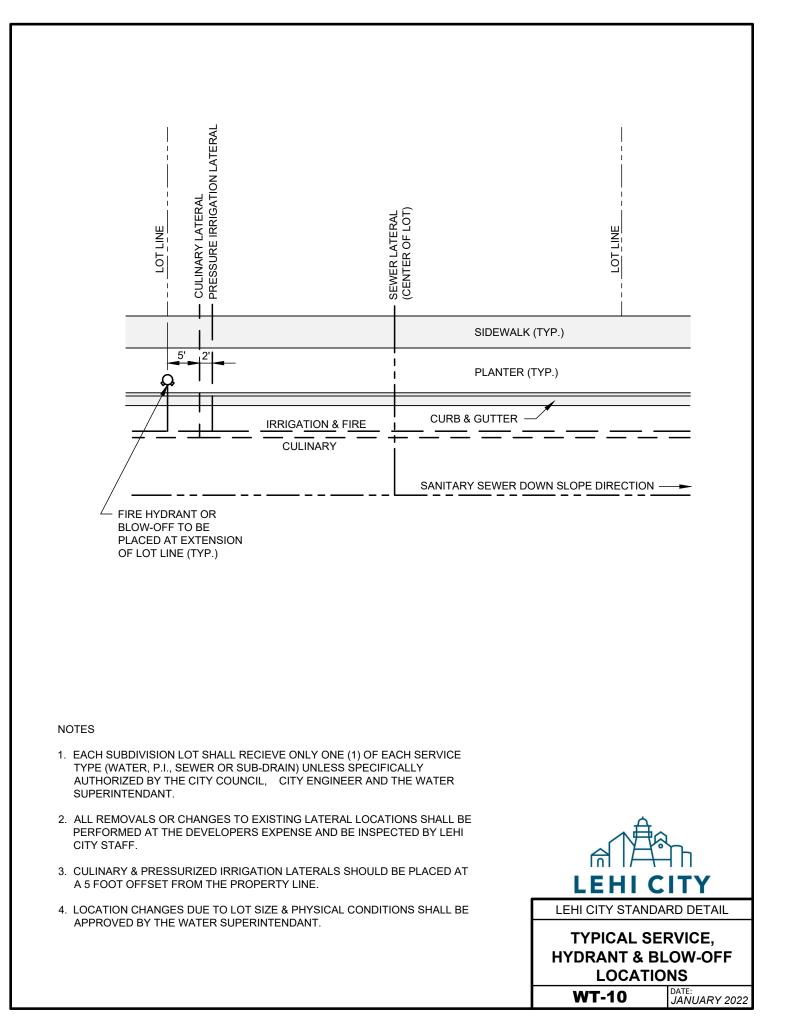


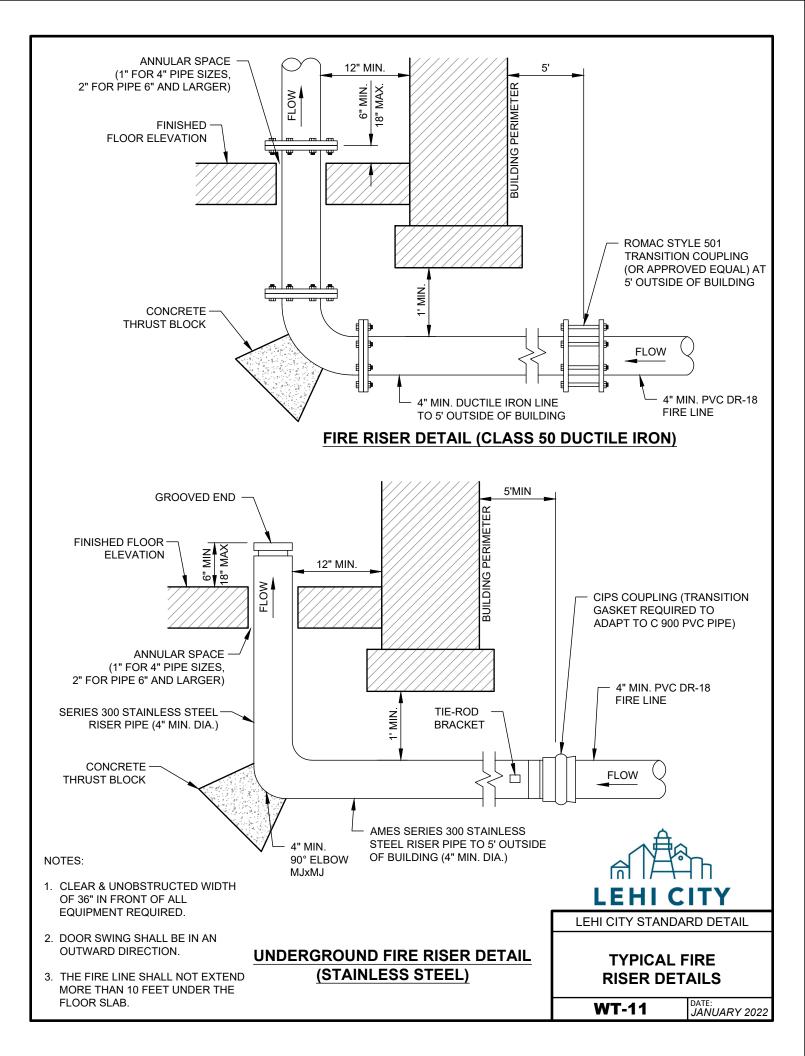


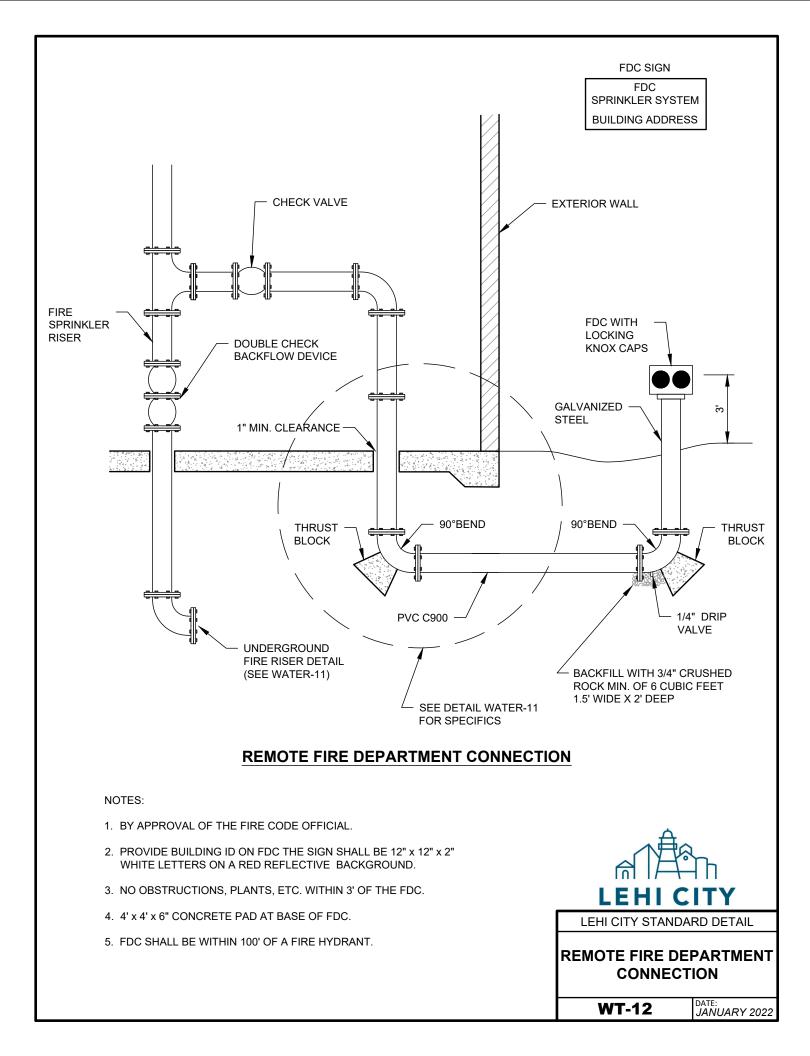
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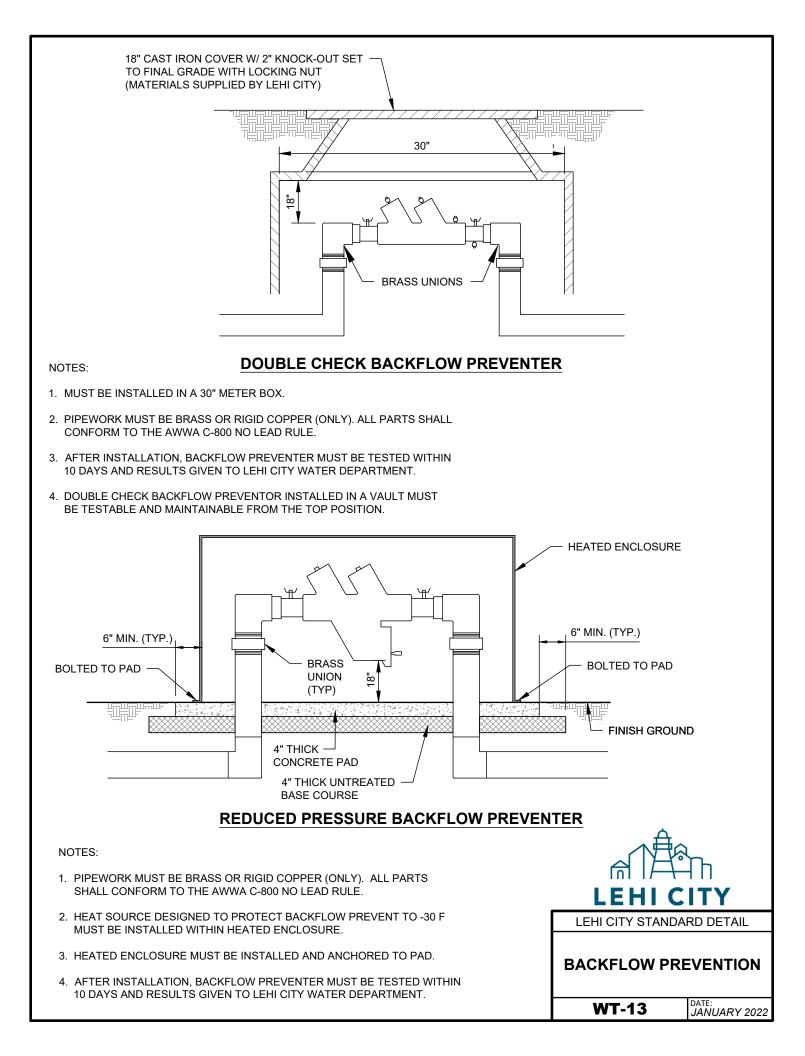
- 1. MUST BE PLACED IN LINE WITH FDC (FIRE DEPARTMENT CONNECTION), IN PLAIN SITE AND BE READABLE FROM THE STREET.
- 2. FINAL PLACEMENT SHALL BE AS APPROVED BY THE FIRE CODE OFFICIAL.
- 3. POST INDICATOR VALVE SHALL BE UL LISTED AND FM APPROVED.
- 4. POST INDICATOR VALVE SHALL BE A MINIMUM DIAMETER OF 4".
- 5. A THREE (3) FOOT HORIZONTAL CLEARANCE MUST BE MAINTAINED AROUND THE OUTSIDE OF ALL POST INDICATOR VALVES.
- 6. THERE SHALL BE NO OTHER VALVES BETWEEN THE POST INDICATOR AND THE FIRE SPRINKLER RISER.
- 7. THERE SHALL BE NO WATER CONNECTIONS OTHER THAN THE POST INDICATOR VALVE BETWEEN THE MAINLINE VALVE AND THE RISER FLANGE.
- 8. A POST INDICATOR VALVE IS REQUIRED ON ALL FIRE LINES EXCEPT WHEN THERE IS AN OUTSIDE DOOR TO THE FIRE RISER ROOM AND AS REQUIRED BY THE FIRE MARSHALL.

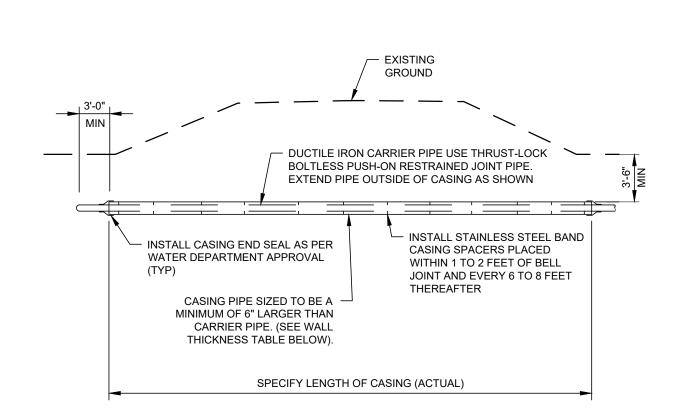








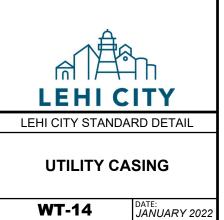




STEEL CASING PIPE WALL THICKNESS TABLE	
MINIMUM THICKNESS	DIAMETER OF CASING PIPE
1/4"	12" OR LESS
5/16"	12" - 18"
3/8"	18" - 22"
7/16"	22" - 28"
1/2"	28" - 34"
9/16"	34" - 42"
5/8"	42" - 48"
AS APPROVED	OVER 48"

\* THIS CHART IS ONLY FOR SMOOTH STEEL CASING PIPES WITH A MINMUM YEILD STRENGTH OF 35,000 PSI.

\* CASING PIPES LARGER THAN 48" OR WITH ANY PORTION DEEPER THAN 20 FEET SHALL REQUIRE STAMPED STRUCTURAL CALCULATIONS PRIOR TO APPROVAL





KNOX BRAND LOCKING FDC CAP

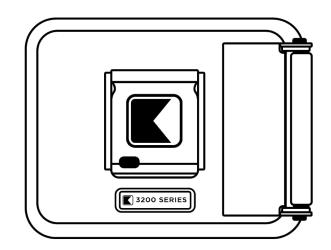
(FOR EXTERIOR FIRE DEPARTMENT CONNECTIONS)



## KNOX BRAND LOCKING STANDPIPE CAP

(FOR STANDPIPE HOSE CONNECTIONS)

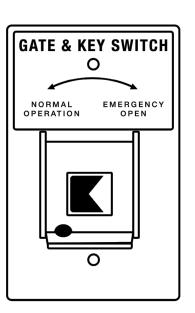
PURCHASE THROUGH LOCAL KNOX VENDOR OR AT KNOXBOX.COM



# KNOX BOX, FLUSH OR SURFACE MOUNTED

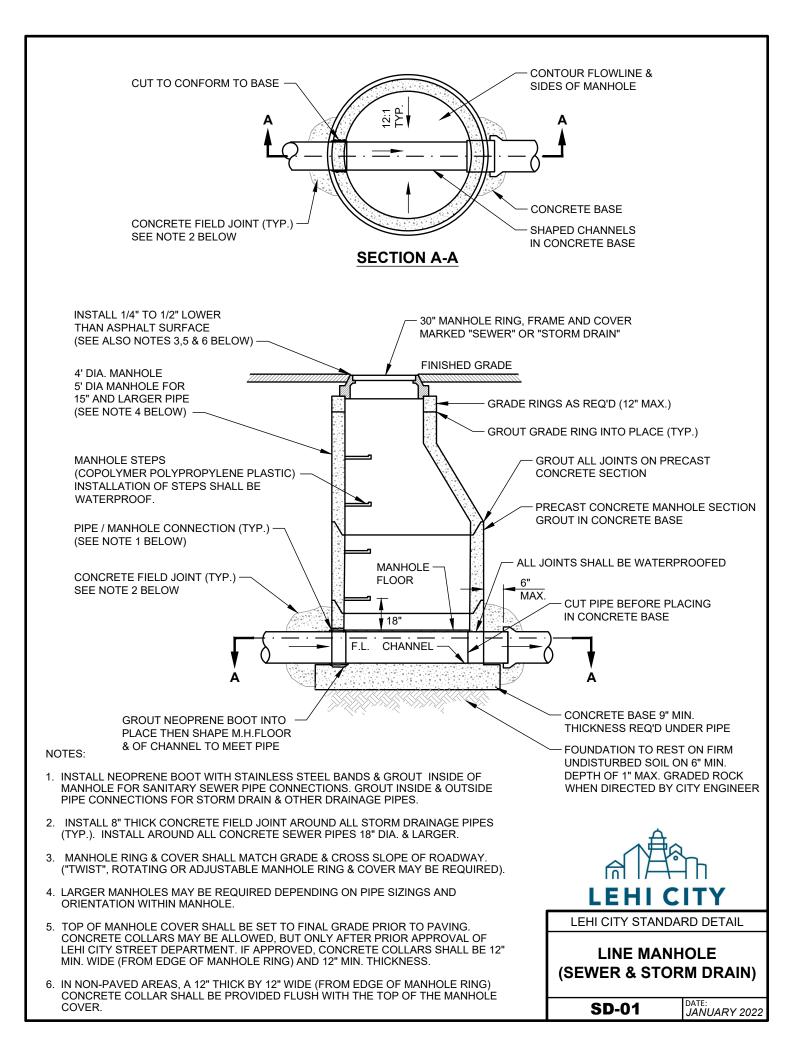
(3200 SERIES) (MULTIPLE BOXES MAY BE REQUIRED)

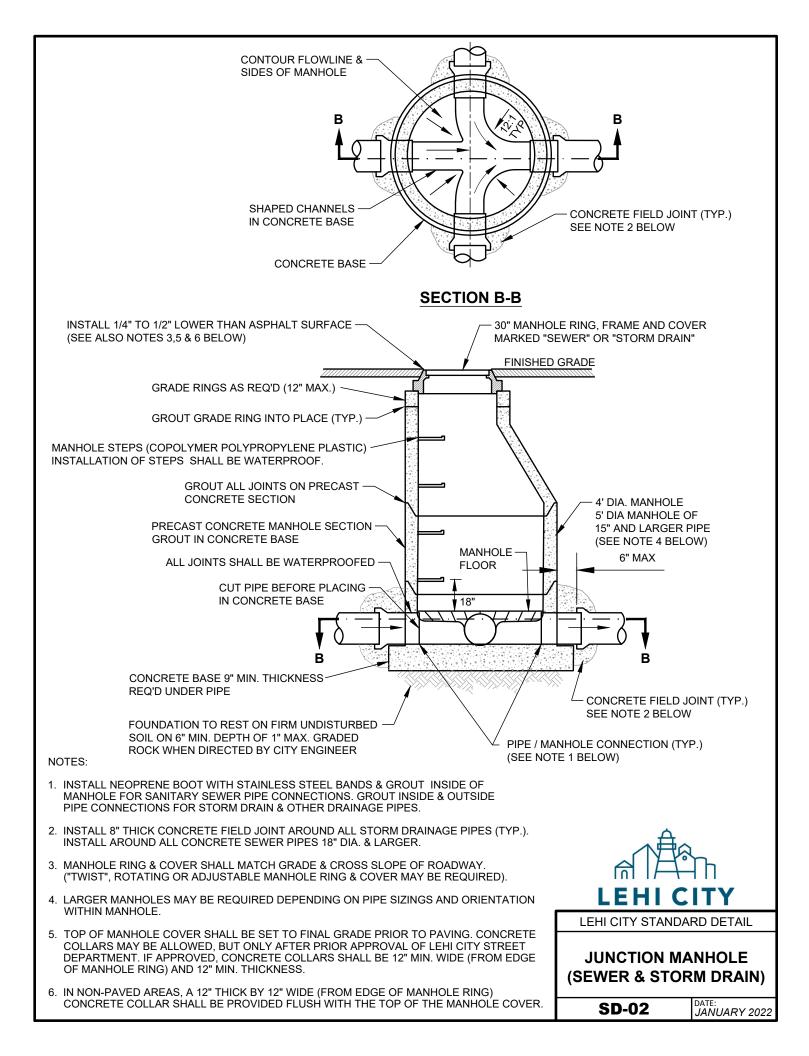
TO BE MOUNTED BETWEEN 5'-6' ABOVE FINISHED FLOOR GRADE

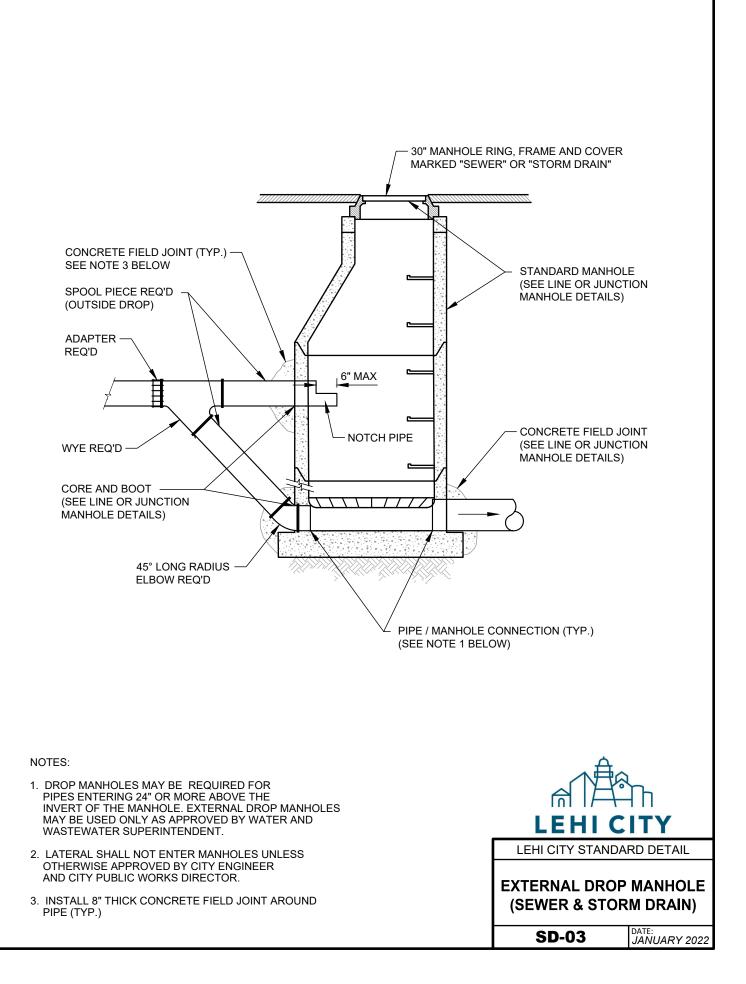


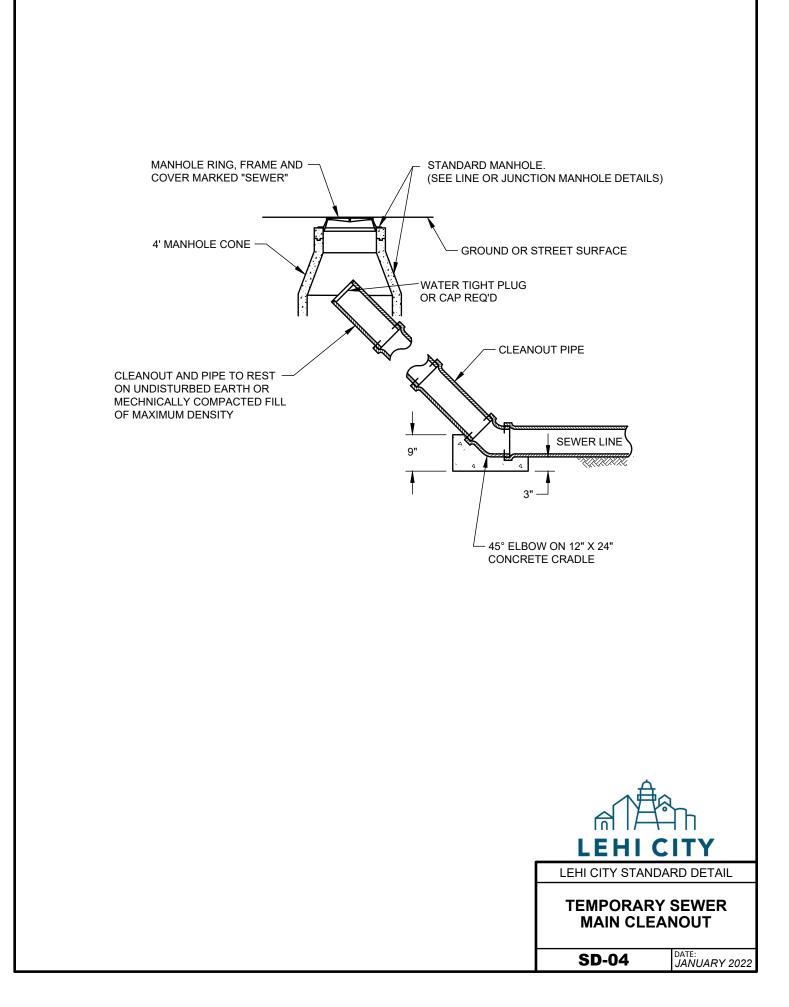
(FOR ELECTRONIC GATE ACCESS)

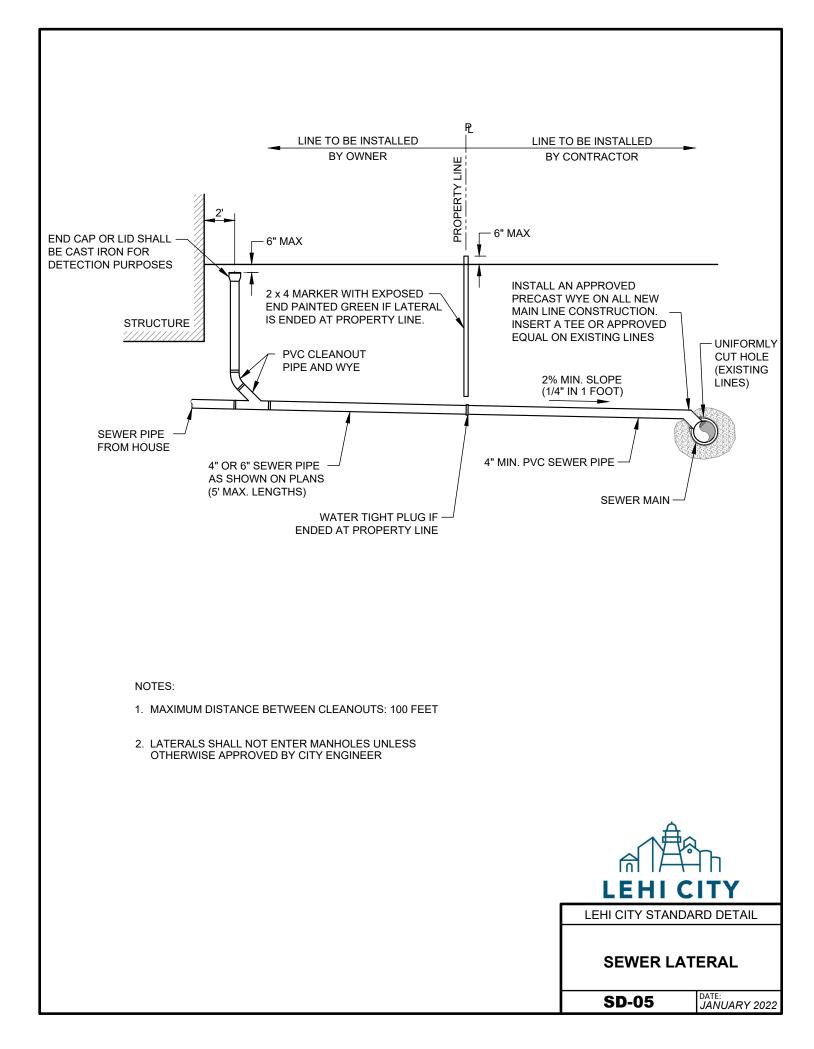


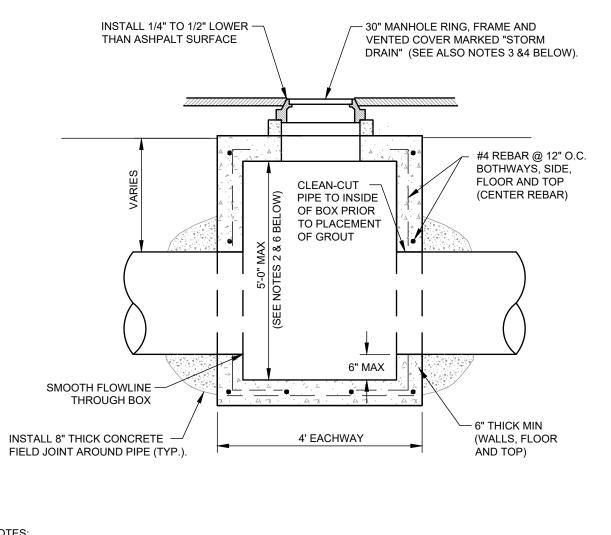












- NOTES:
- 1. AN ENGINEERED PRECAST BOX MAY BE ALLOWED AS APPROVED BY THE CITY
- 2. FOR DEPTHS NOT TO EXCEED 5', OTHERWISE USE STANDARD LINE OR JUNCTION MANHOLE
- MANHOLE RING & COVER SHALL MATCH GRADE & CROSS SLOPE OF ROADWAY. (TWIST, ROTATING OR ADJUSTABLE MANHOLE RING & COVER MAY BE REQUIRED).
- 4. VENTED RING, COVER & BOX SHALL BE CAPABLE OF SUPPORTING TRAFFIC LOADS. RING & COVER MAY BE SUBSTITUTED WITH A GRATED LID WHEN OUTSIDE OF PAVED ROADWAY AREAS (AS APPROVED BY THE CITY ENGINEER OR PUBLIC WORKS DIRECTOR), BUT SHALL ALSO BE CAPABLE OF SUPPORTING TRAFFIC LOADS.
- 5. 3'X3' I.D. CLEANOUT BOX MAY BE REQUIRED IF MORE THAN ONE PIPE ENTERS / EXITS BOX.
- 6. BMP "SNOUT" MAY BE REQUIRED WITHIN STORM DRAINAGE BOXES TO MEET STORM WATER QUALITY REQUIREMENT. CLEAN OUT BOX DEPTH SHALL BE MODIFIED TO MEET "SNOUT" MANUFACTURER'S GUIDELINES. ORIFICE PLATES SHOULD NOT BE INSTALLED BEHIND "SNOUT" HOODS.

