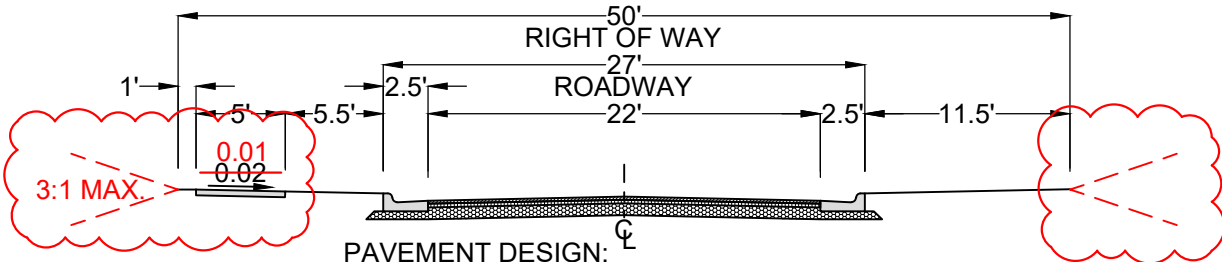
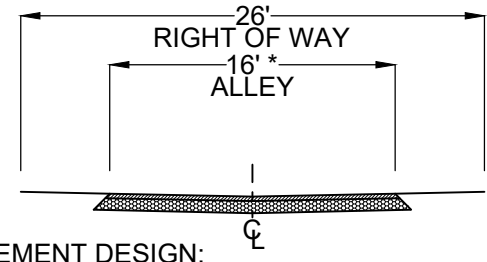


RESIDENTIAL STREET



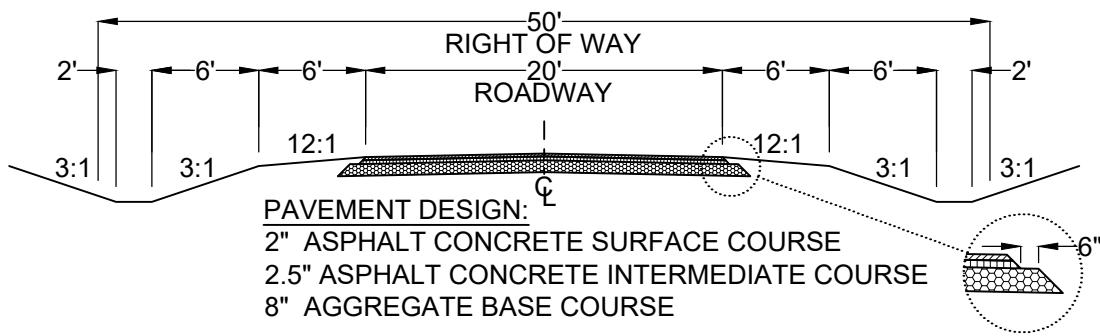
PAVEMENT DESIGN:
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 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE
 8" AGGREGATE BASE COURSE

ALLEY



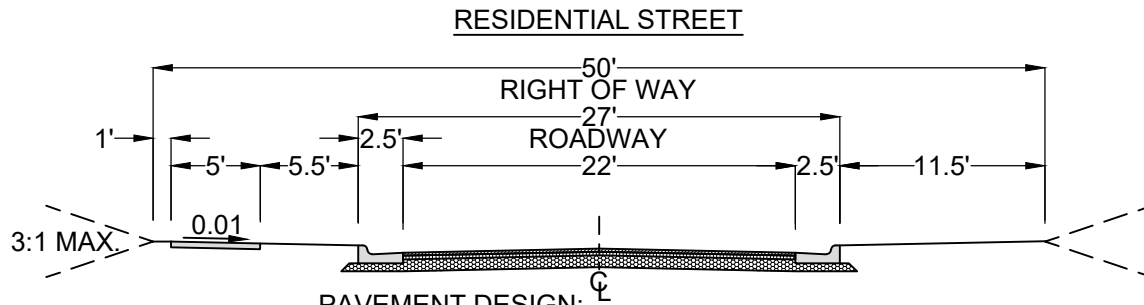
PAVEMENT DESIGN:
 3" ASPHALT CONCRETE SURFACE COURSE
 8" AGGREGATE BASE COURSE
 * ONE WAY ALLEY OPTIONAL WITH VALLEY GUTTER (16' B-B)

RURAL RESIDENTIAL STREET

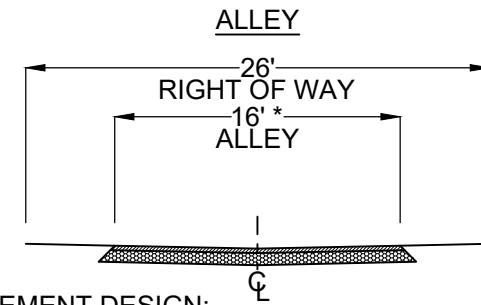


PAVEMENT DESIGN:
 2" ASPHALT CONCRETE SURFACE COURSE
 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE
 8" AGGREGATE BASE COURSE

- NOTE:**
1. NORMAL CROWN (REVERSE CROWN FOR ALLEYS) OF 1/4 INCH PER FOOT SHALL BE USED UNLESS OTHERWISE DIRECTED BY TOWN ENGINEER.
 2. WATER AND SEWER UTILITIES SHALL NOT BE SERVED FROM THE ALLEY RIGHT OF WAY.
 3. RURAL RESIDENTIAL STREET MAY BE USED WHERE PERMITTED BY THE UDO.
 4. GRASSED SWALES SHALL MEET THE APPLICABLE DESIGN REQUIREMENTS SET FORTH IN THE DWQ BMP MANUAL.
 5. GRASSED SWALES MAY BE SUBJECT TO THE REQUIREMENTS SET FORTH IN UDO SECTION 6.1.12.



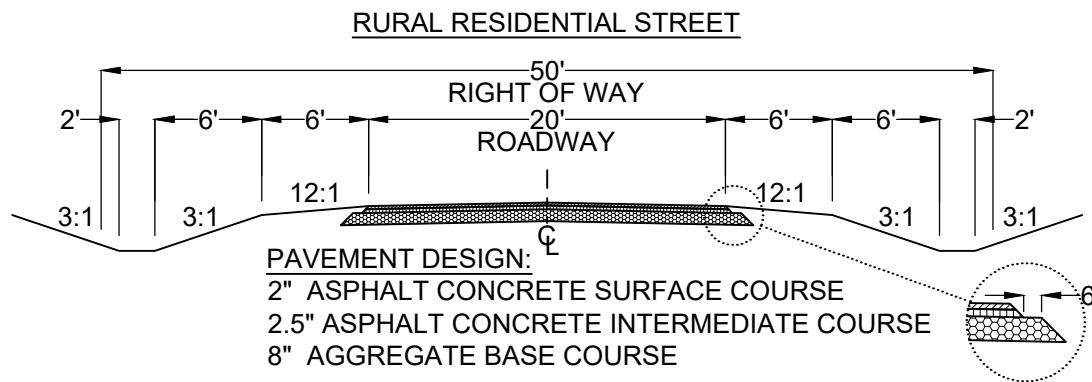
PAVEMENT DESIGN:
 2" ASPHALT CONCRETE SURFACE COURSE
 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE
 8" AGGREGATE BASE COURSE



PAVEMENT DESIGN:
 3" ASPHALT CONCRETE SURFACE COURSE
 8" AGGREGATE BASE COURSE
 * ONE WAY ALLEY OPTIONAL WITH VALLEY GUTTER (16' B-B)

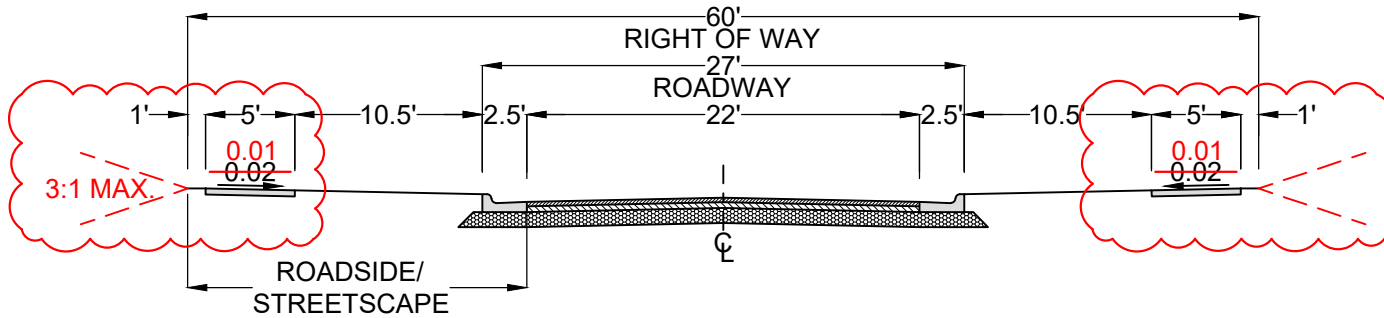
NOTE:

1. NORMAL CROWN (REVERSE CROWN FOR ALLEYS) OF 1/4 INCH PER FOOT SHALL BE USED UNLESS OTHERWISE DIRECTED BY TOWN ENGINEER.
2. WATER AND SEWER UTILITIES SHALL NOT BE SERVED FROM THE ALLEY RIGHT OF WAY.
3. RURAL RESIDENTIAL STREET MAY BE USED WHERE PERMITTED BY THE UDO.
4. GRASSED SWALES SHALL MEET THE APPLICABLE DESIGN REQUIREMENTS SET FORTH IN THE DWQ BMP MANUAL.
5. GRASSED SWALES MAY BE SUBJECT TO THE REQUIREMENTS SET FORTH IN UDO SECTION 6.1.12.

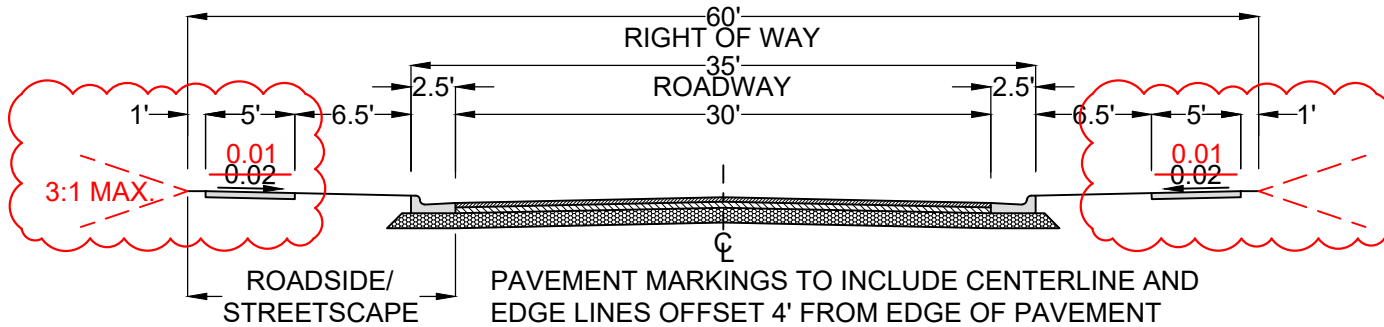


PAVEMENT DESIGN:
 2" ASPHALT CONCRETE SURFACE COURSE
 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE
 8" AGGREGATE BASE COURSE

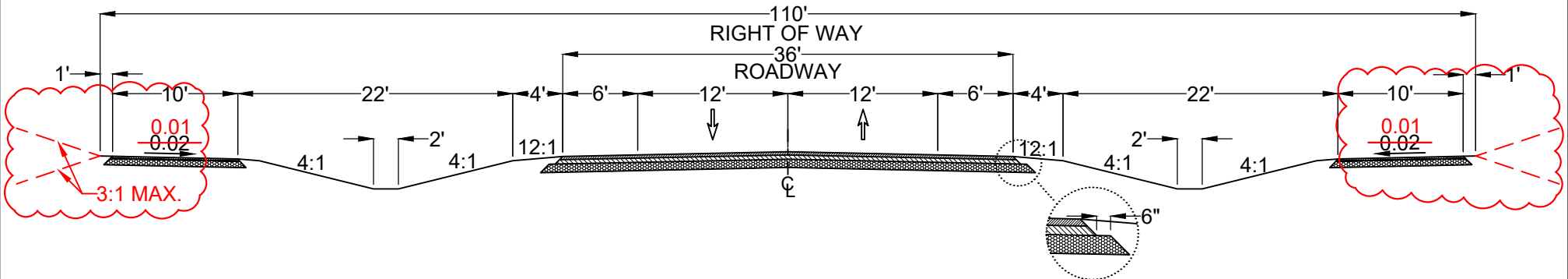
MINOR COLLECTOR STREET



MAJOR COLLECTOR STREET / 2-LANE URBAN THOROUGHFARE



2-LANE RURAL THOROUGHFARE



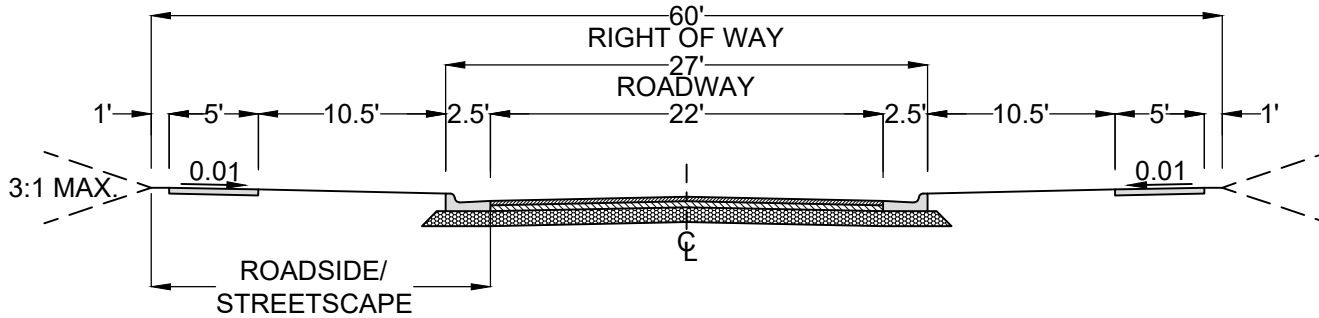
NOTE:

1. PAVEMENT DESIGN SHOWN IS THE MINIMUM FOR THE RESPECTIVE TYPICAL SECTION. CALCULATED PAVEMENT DESIGN MAY DIFFER.
2. NORMAL CROWN OF 1/4 INCH PER FOOT SHALL BE USED UNLESS OTHERWISE DIRECTED BY TOWN ENGINEER.
3. ROADSIDE / STREETSCAPE TREATMENTS ARE CONTEXT SENSITIVE. REFER TO ADVANCE APEX: THE 2045 TRANSPORTATION PLAN FOR APPROPRIATE CONTEXT, AND BICYCLE AND PEDESTRIAN PLANNED FACILITIES MAP.

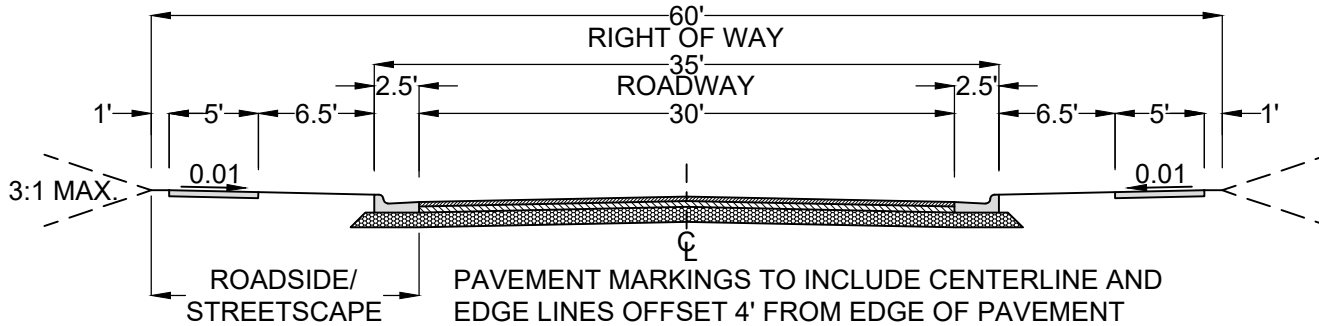
PAVEMENT DESIGN:

- 3" ASPHALT CONCRETE SURFACE COURSE
- 4" ASPHALT CONCRETE INTERMEDIATE COURSE
- 10" AGGREGATE BASE COURSE

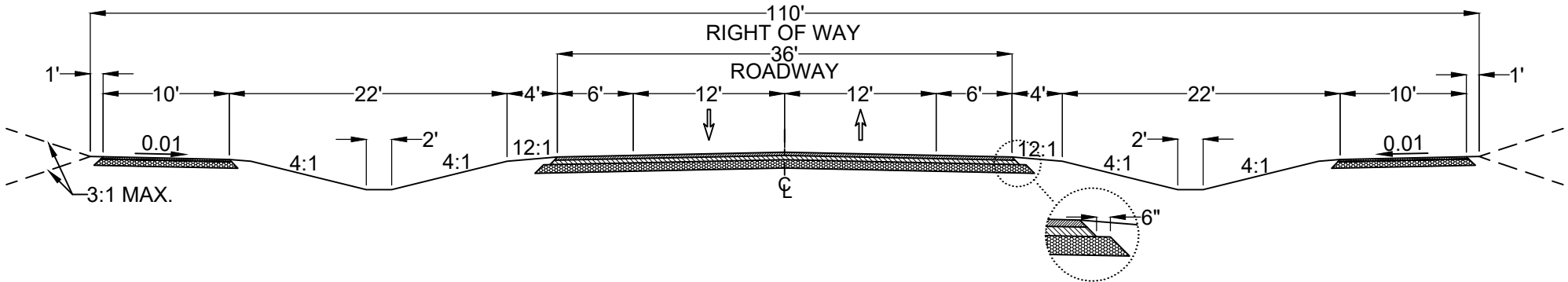
MINOR COLLECTOR STREET



MAJOR COLLECTOR STREET / 2-LANE URBAN THOROUGHFARE



2-LANE RURAL THOROUGHFARE



NOTE:

1. PAVEMENT DESIGN SHOWN IS THE MINIMUM FOR THE RESPECTIVE TYPICAL SECTION. CALCULATED PAVEMENT DESIGN MAY DIFFER.
2. NORMAL CROWN OF 1/4 INCH PER FOOT SHALL BE USED UNLESS OTHERWISE DIRECTED BY TOWN ENGINEER.
3. ROADSIDE / STREETSCAPE TREATMENTS ARE CONTEXT SENSITIVE. REFER TO ADVANCE APEX: THE 2045 TRANSPORTATION PLAN FOR APPROPRIATE CONTEXT, AND BICYCLE AND PEDESTRIAN PLANNED FACILITIES MAP.

PAVEMENT DESIGN:

- 3" ASPHALT CONCRETE SURFACE COURSE
- 4" ASPHALT CONCRETE INTERMEDIATE COURSE
- 10" AGGREGATE BASE COURSE

TOWN OF APEX
STANDARDS

EFFECTIVE: APRIL 12, 2022

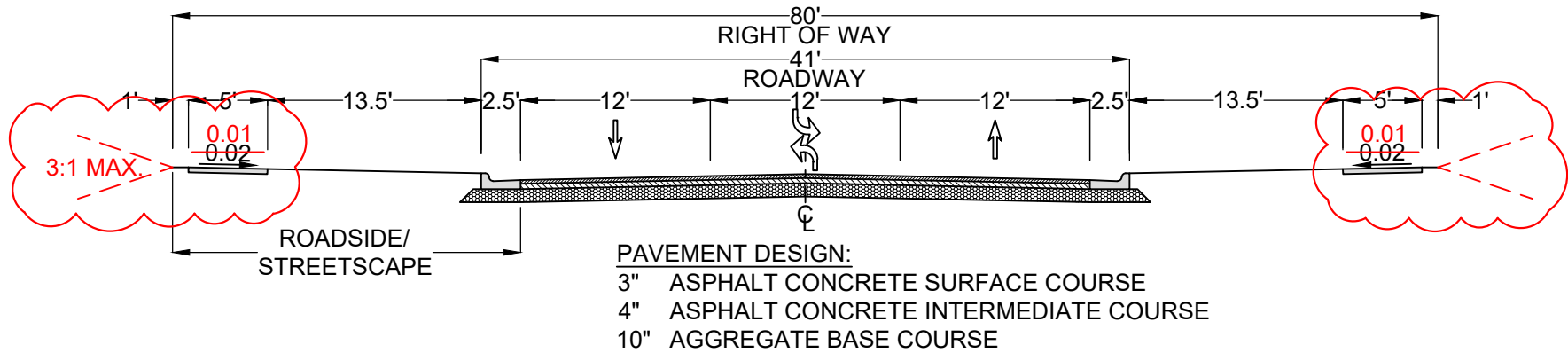
**STREET TYPICAL SECTIONS
COLLECTOR/2-LANE THOROUGHFARE**

STD. NO.

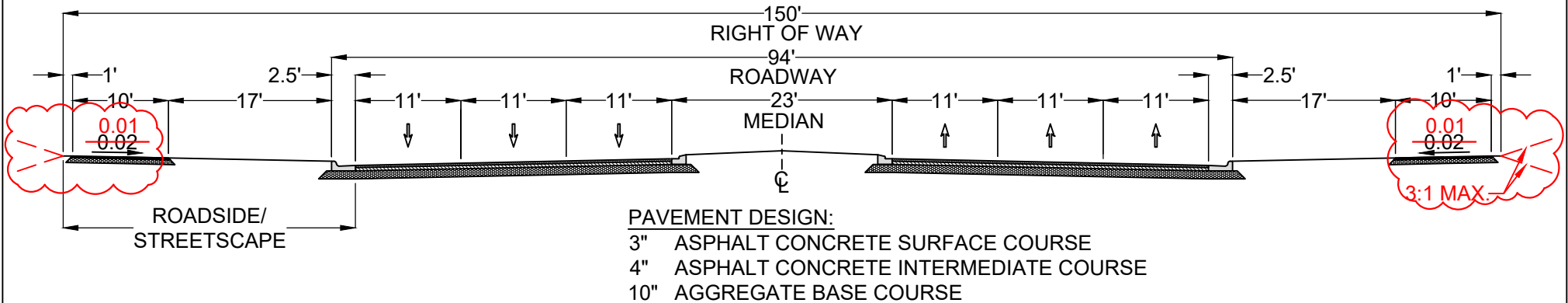
300.01

SHEET 2 OF 4

3-LANE THOROUGHFARE



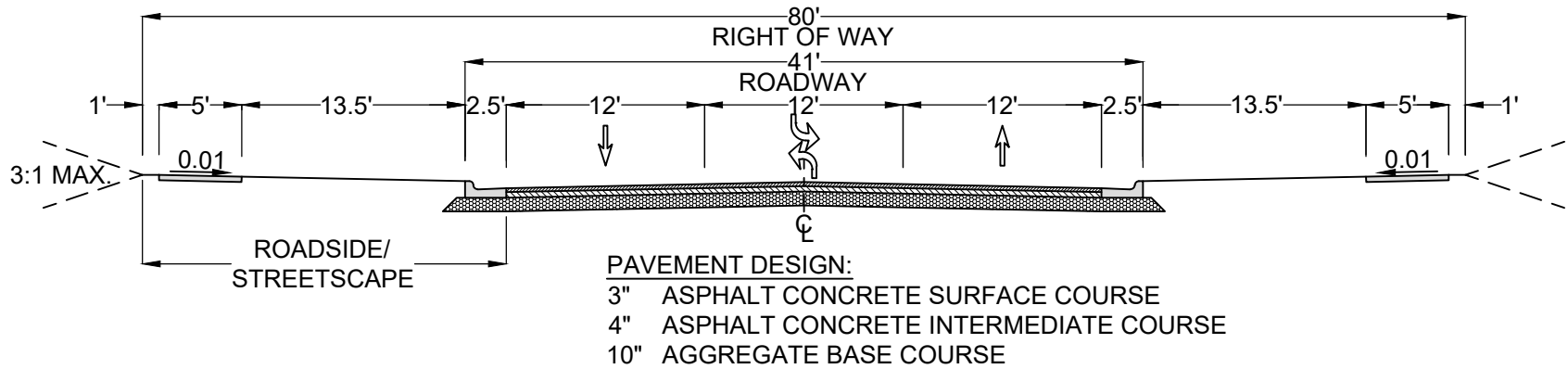
6-LANE THOROUGHFARE



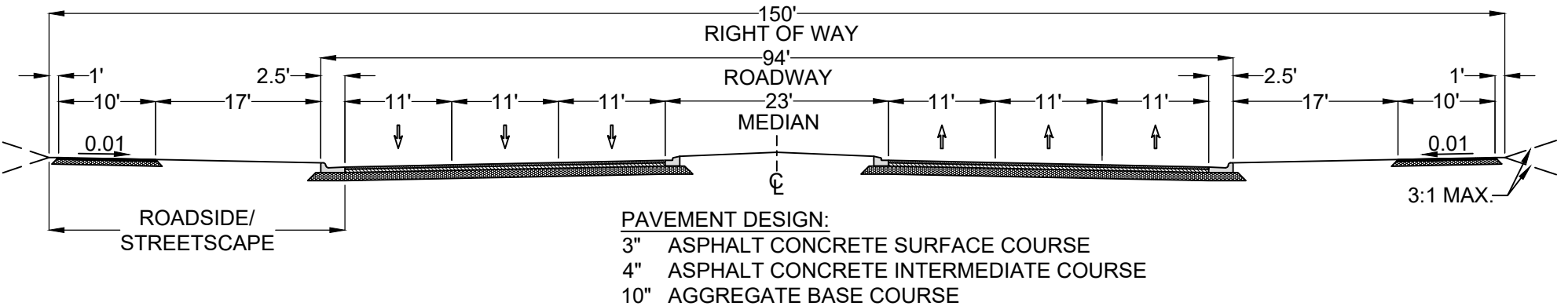
NOTE:

1. PAVEMENT DESIGN SHOWN IS THE MINIMUM FOR THE RESPECTIVE TYPICAL SECTION. CALCULATED PAVEMENT DESIGN MAY DIFFER.
2. NORMAL CROWN OF 1/4 INCH PER FOOT SHALL BE USED UNLESS OTHERWISE DIRECTED BY TOWN ENGINEER.
3. LANE WIDTHS SHALL BE MARKED PER THE DIMENSIONS SHOWN.
4. ROADSIDE/STREETSCAPE TREATMENTS ARE CONTEXT SENSITIVE. REFER TO ADVANCE APEX: THE 2045 TRANSPORTATION PLAN FOR APPROPRIATE CONTEXT, AND BICYCLE AND PEDESTRIAN PLANNED FACILITIES MAP.

3-LANE THOROUGHFARE



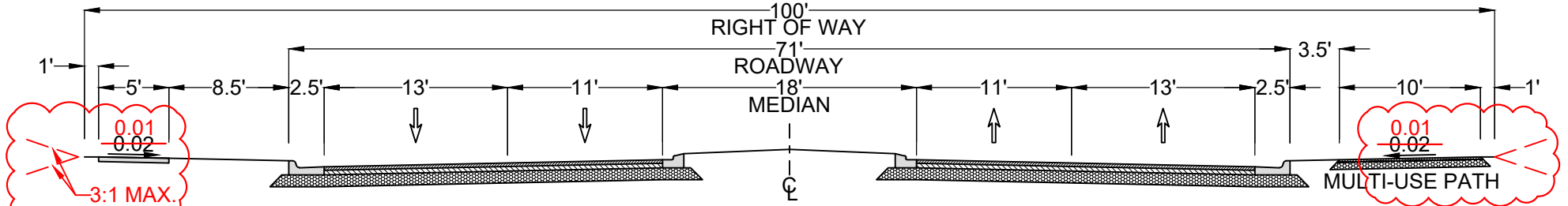
6-LANE THOROUGHFARE



NOTE:

1. PAVEMENT DESIGN SHOWN IS THE MINIMUM FOR THE RESPECTIVE TYPICAL SECTION. CALCULATED PAVEMENT DESIGN MAY DIFFER.
2. NORMAL CROWN OF 1/4 INCH PER FOOT SHALL BE USED UNLESS OTHERWISE DIRECTED BY TOWN ENGINEER.
3. LANE WIDTHS SHALL BE MARKED PER THE DIMENSIONS SHOWN.
4. ROADSIDE/STREETSCAPE TREATMENTS ARE CONTEXT SENSITIVE. REFER TO ADVANCE APEX: THE 2045 TRANSPORTATION PLAN FOR APPROPRIATE CONTEXT, AND BICYCLE AND PEDESTRIAN PLANNED FACILITIES MAP.

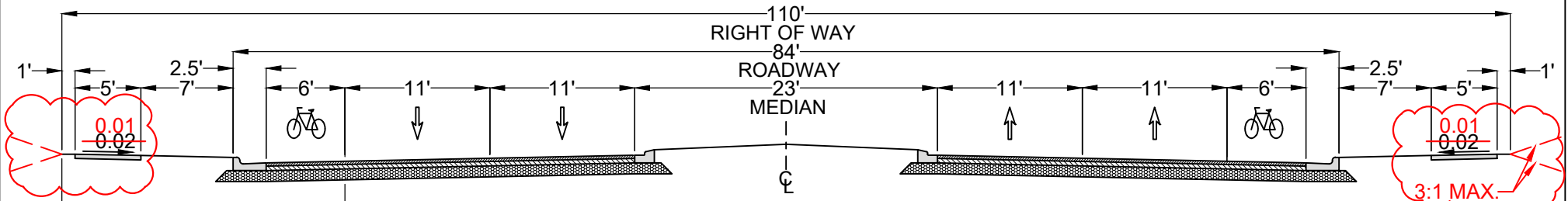
APEX PEAKWAY



PAVEMENT DESIGN:
 3" ASPHALT CONCRETE SURFACE COURSE
 4" ASPHALT CONCRETE INTERMEDIATE COURSE
 10" AGGREGATE BASE COURSE

MULTI-USE PATH PAVEMENT DESIGN:
 2" ASPHALT CONCRETE SURFACE COURSE
 6" AGGREGATE BASE COURSE

4-LANE MEDIAN-DIVIDED THOROUGHFARE

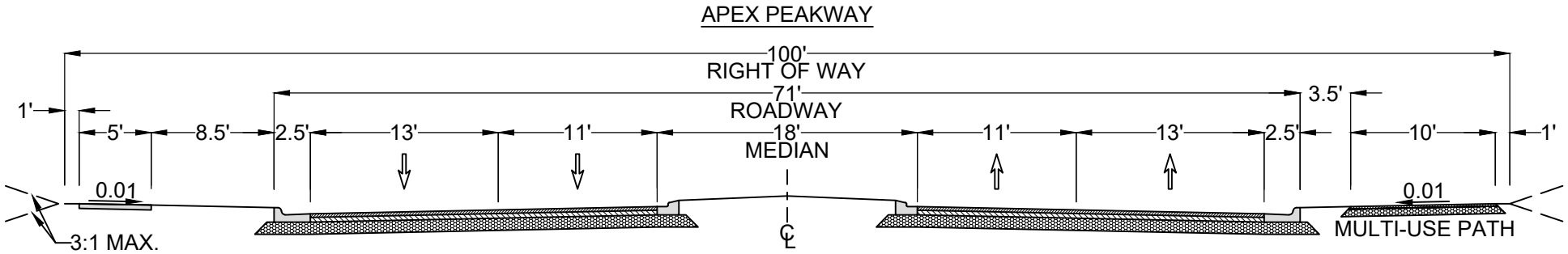


ROADSIDE/
STREETScape

PAVEMENT DESIGN:
 3" ASPHALT CONCRETE SURFACE COURSE
 4" ASPHALT CONCRETE INTERMEDIATE COURSE
 10" AGGREGATE BASE COURSE

NOTE:

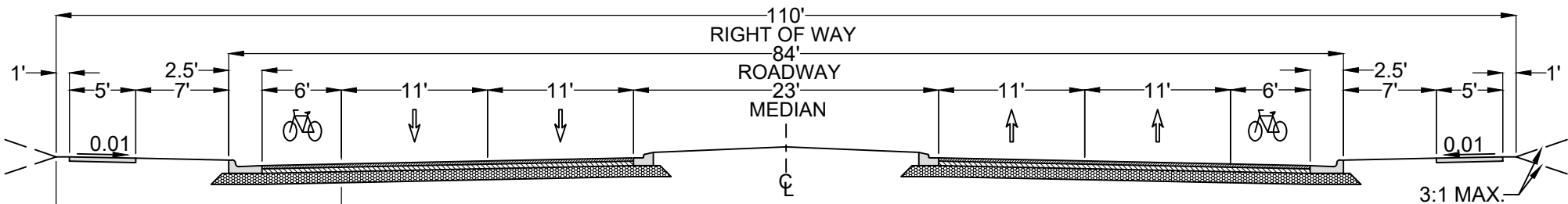
1. PAVEMENT DESIGN SHOWN IS THE MINIMUM FOR THE RESPECTIVE TYPICAL SECTION. CALCULATED PAVEMENT DESIGN MAY DIFFER.
2. NORMAL CROWN OF 1/4 INCH PER FOOT SHALL BE USED UNLESS OTHERWISE DIRECTED BY TOWN ENGINEER.
3. LANE WIDTHS SHALL BE MARKED PER THE DIMENSIONS SHOWN.
4. APEX PEAKWAY SHALL UTILIZE THE 4-LANE MEDIAN-DIVIDED THOROUGHFARE WITH MULTI-USE PATH TYPICAL.
5. ROADSIDE/STREETScape TREATMENTS ARE CONTEXT SENSITIVE. REFER TO ADVANCE APEX: THE 2045 TRANSPORTATION PLAN FOR APPROPRIATE CONTEXT, AND BICYCLE AND PEDESTRIAN PLANNED FACILITIES MAP.
6. A MINIMUM 4-FOOT WIDE BIKE LANE CAN BE USED IN TOWN CENTER AND TRANSIT-ORIENTED DEVELOPMENT CONTEXT AREAS IF ADJACENT TO A STANDARD CURB AND GUTTER SECTION AND WITHOUT A PARKING LANE.



PAVEMENT DESIGN:
 3" ASPHALT CONCRETE SURFACE COURSE
 4" ASPHALT CONCRETE INTERMEDIATE COURSE
 10" AGGREGATE BASE COURSE

MULTI-USE PATH PAVEMENT DESIGN:
 2" ASPHALT CONCRETE SURFACE COURSE
 6" AGGREGATE BASE COURSE

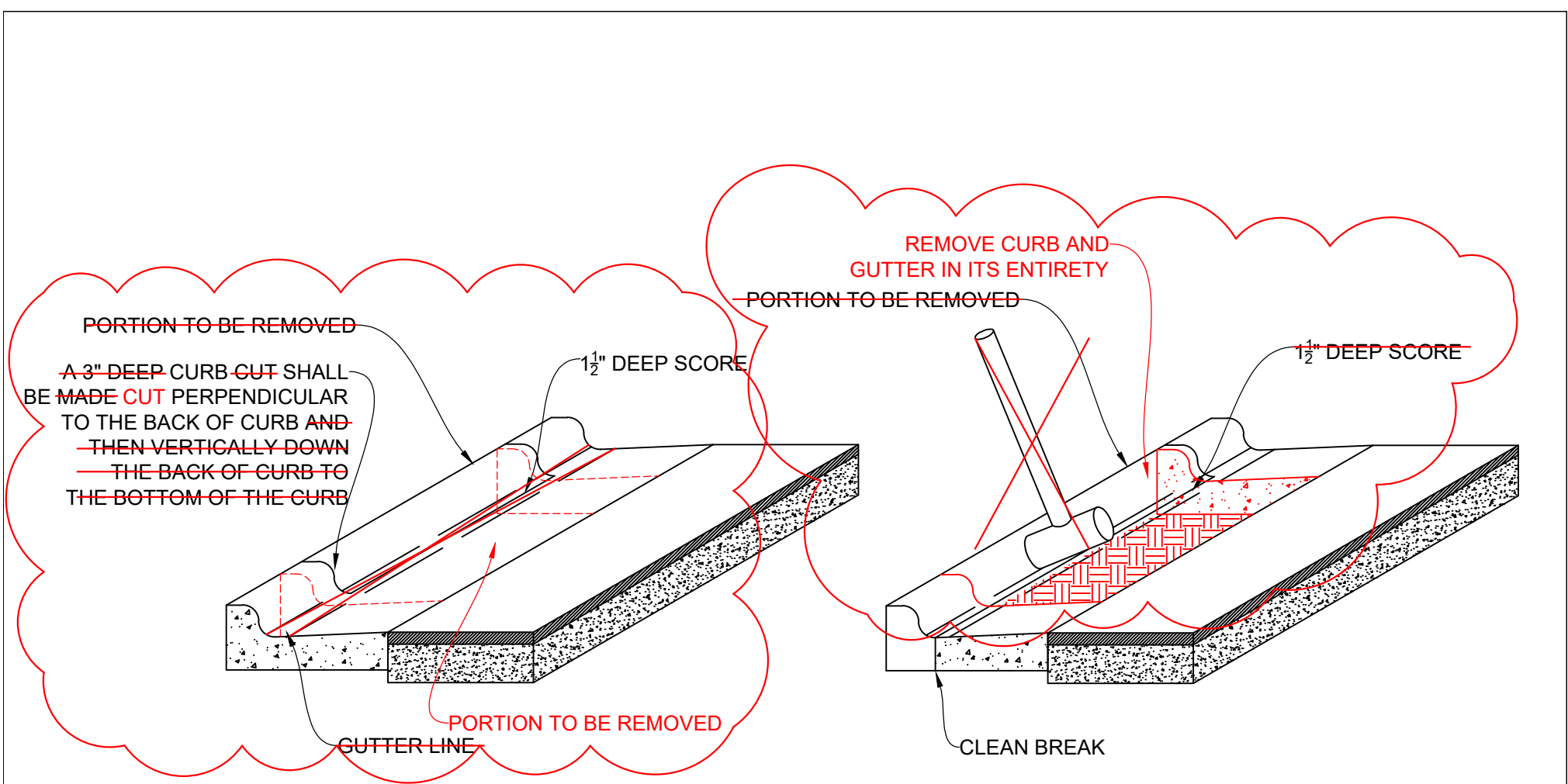
4-LANE MEDIAN-DIVIDED THOROUGHFARE



PAVEMENT DESIGN:
 3" ASPHALT CONCRETE SURFACE COURSE
 4" ASPHALT CONCRETE INTERMEDIATE COURSE
 10" AGGREGATE BASE COURSE

NOTE:

1. PAVEMENT DESIGN SHOWN IS THE MINIMUM FOR THE RESPECTIVE TYPICAL SECTION. CALCULATED PAVEMENT DESIGN MAY DIFFER.
2. NORMAL CROWN OF 1/4 INCH PER FOOT SHALL BE USED UNLESS OTHERWISE DIRECTED BY TOWN ENGINEER.
3. LANE WIDTHS SHALL BE MARKED PER THE DIMENSIONS SHOWN.
4. APEX PEAKWAY SHALL UTILIZE THE 4-LANE MEDIAN-DIVIDED THOROUGHFARE WITH MULTI-USE PATH TYPICAL.
5. ROADSIDE/STREETSCAPE TREATMENTS ARE CONTEXT SENSITIVE. REFER TO ADVANCE APEX: THE 2045 TRANSPORTATION PLAN FOR APPROPRIATE CONTEXT, AND BICYCLE AND PEDESTRIAN PLANNED FACILITIES MAP.
6. A MINIMUM 4-FOOT WIDE BIKE LANE CAN BE USED IN TOWN CENTER AND TRANSIT-ORIENTED DEVELOPMENT CONTEXT AREAS IF ADJACENT TO A STANDARD CURB AND GUTTER SECTION AND WITHOUT A PARKING LANE.



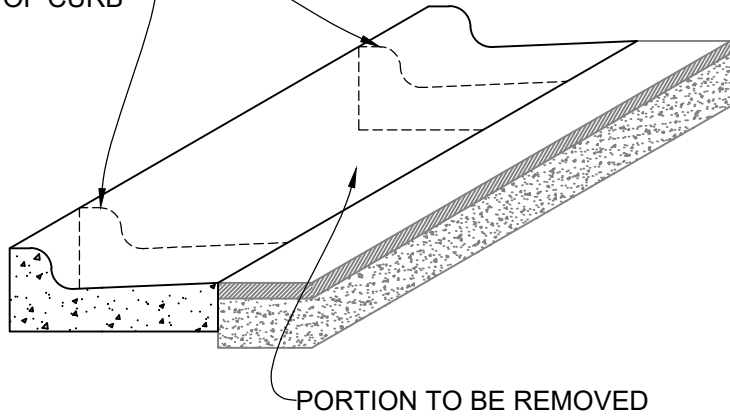
STEP ONE

STEP TWO

NOTES:

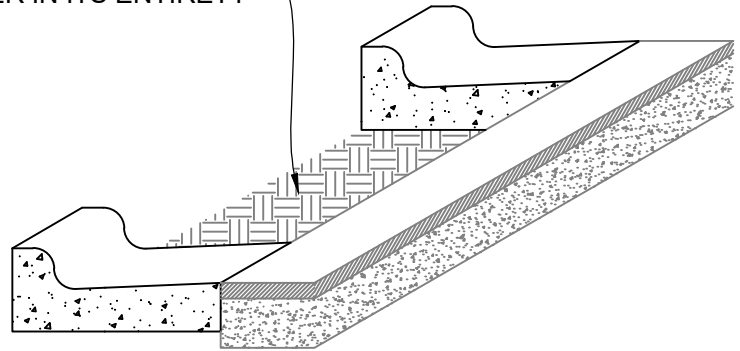
1. IF PERPENDICULAR CURB CUT IS WITHIN 5' FROM A JOINT, THEN THE PARALLEL CUT SHALL BE MADE TO THAT JOINT.
2. FOR REPAIRS TO CURB, A 5' MINIMUM SECTION MUST BE REMOVED AND REPLACED (JOINT TO JOINT.)

CURB SHALL BE CUT PERPENDICULAR TO THE BACK OF CURB



STEP ONE

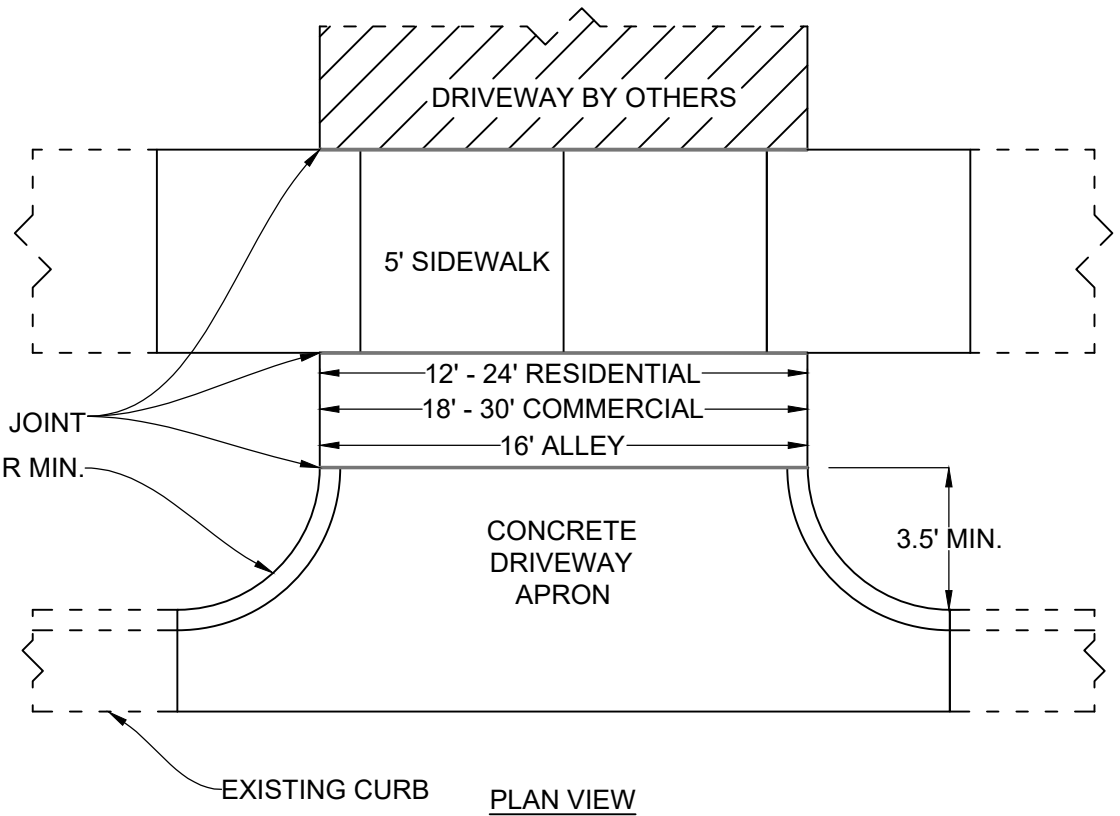
REMOVE CURB AND GUTTER IN ITS ENTIRETY



STEP TWO

NOTES:

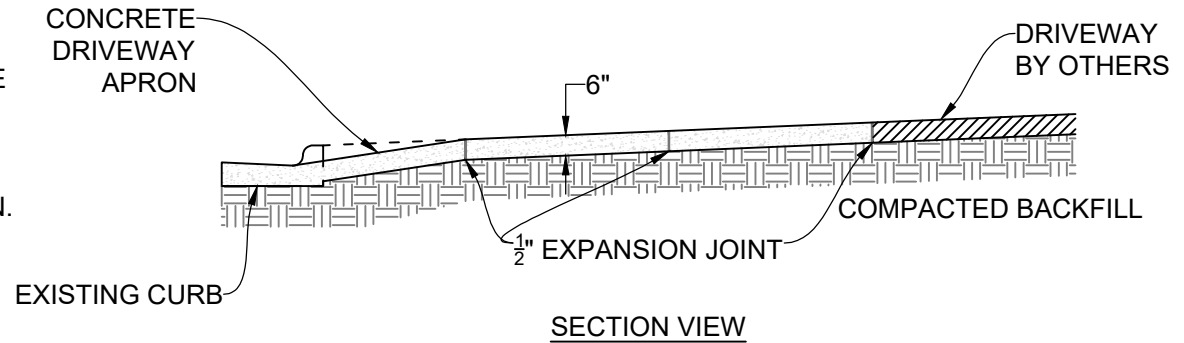
- 1. IF PERPENDICULAR CURB CUT IS WITHIN 5' FROM A JOINT, THEN THE CUT SHALL BE MADE AT THE JOINT.
- 2. FOR REPAIRS TO CURB, A 5' MINIMUM SECTION MUST BE REMOVED AND REPLACED (JOINT TO JOINT.)



NOTES:

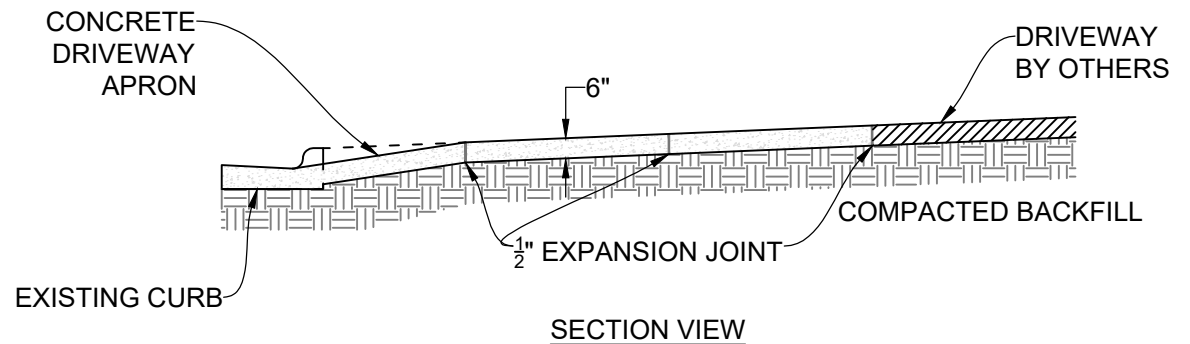
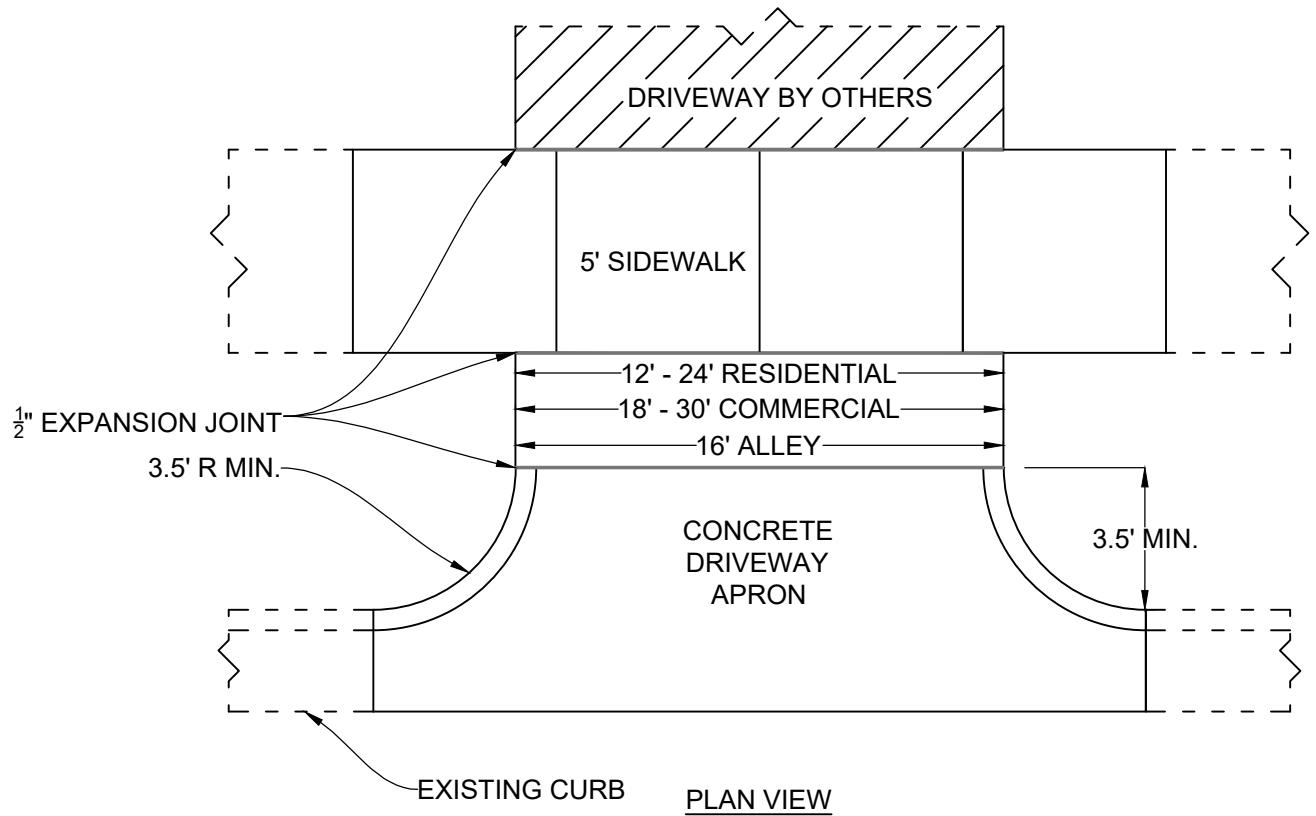
1. RESIDENTIAL DRIVEWAYS TO BE 12' TO 24' WIDTH.
~~2-CAR GARAGE - 18' DRIVEWAY~~
~~3-CAR GARAGE - 24' DRIVEWAY~~
EXCEPT WHEN CONNECTING TO AN ALLEY WIDTH MAY BE INCREASED TO ALLOW AN ADDITIONAL 9' WIDE PARKING PAD IF DISTANCE FROM THE ALLEY TO THE STRUCTURE IS LESS THAN 18'.

2. COMMERCIAL & INDUSTRIAL DRIVEWAYS TO BE 18' TO 30' WIDTH.
3. ALLEY CONNECTIONS TO BE 16' WIDTH.
4. ALL CONCRETE SHALL BE 3000 PSI.
5. IF CURB CUT IS WITHIN 5' FROM A JOINT, THEN THE CUT SHALL BE MADE AT THAT JOINT.
6. ALL DRIVEWAYS SHALL BE INSTALLED WITH A SIDEWALK SECTION AND UTILITY STRIP AS SHOWN. SIDEWALK SECTIONS SHALL HAVE 1/4" PER FOOT FALL TOWARDS THE STREET.
7. LOCATE DRIVEWAYS A MINIMUM OF 3 FEET FROM SEWER SERVICE LINES.



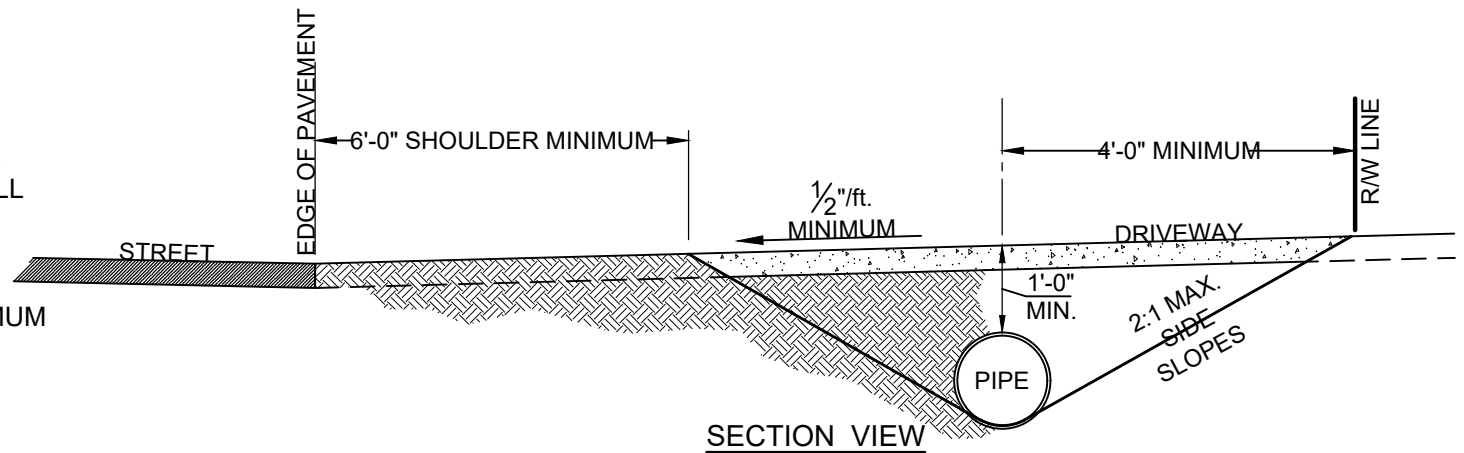
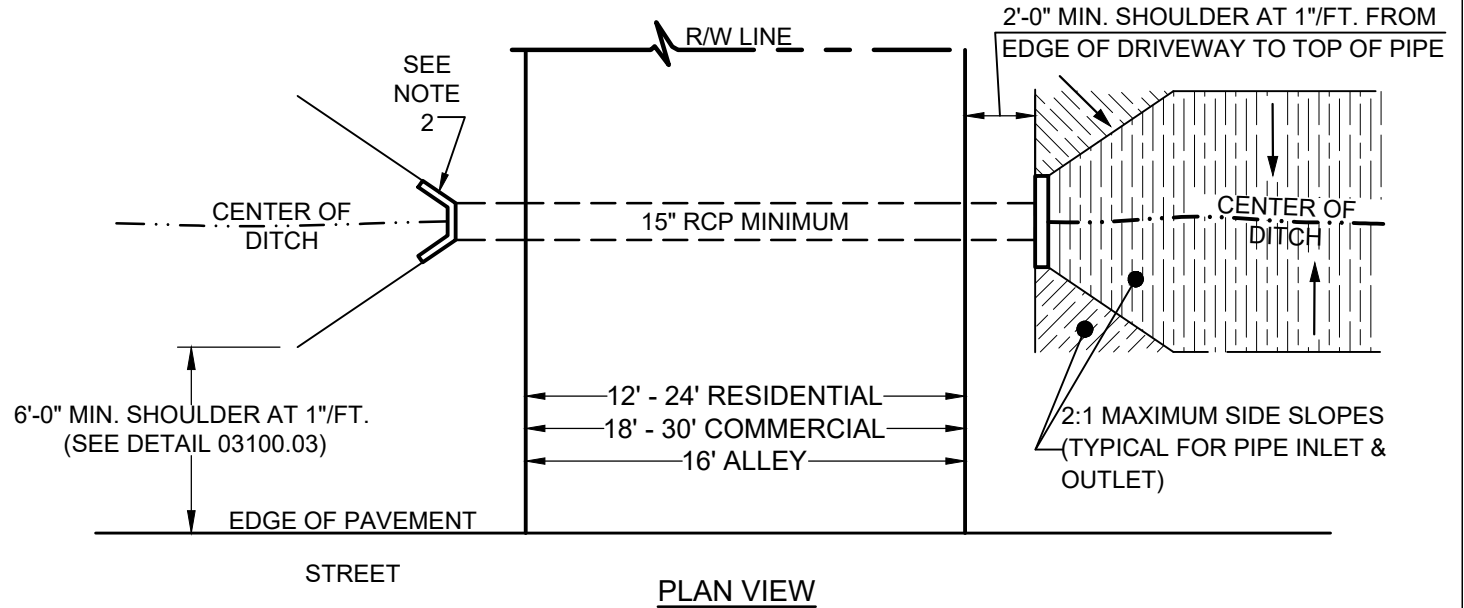
NOTES:

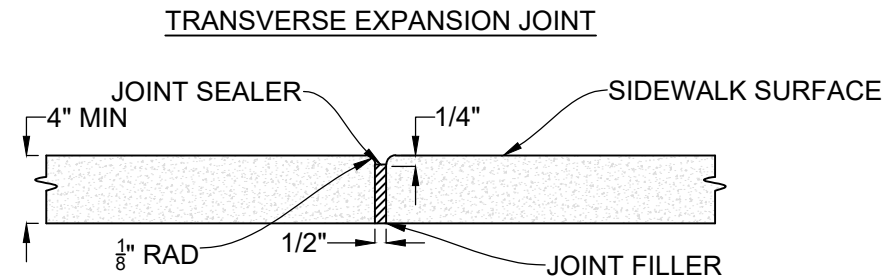
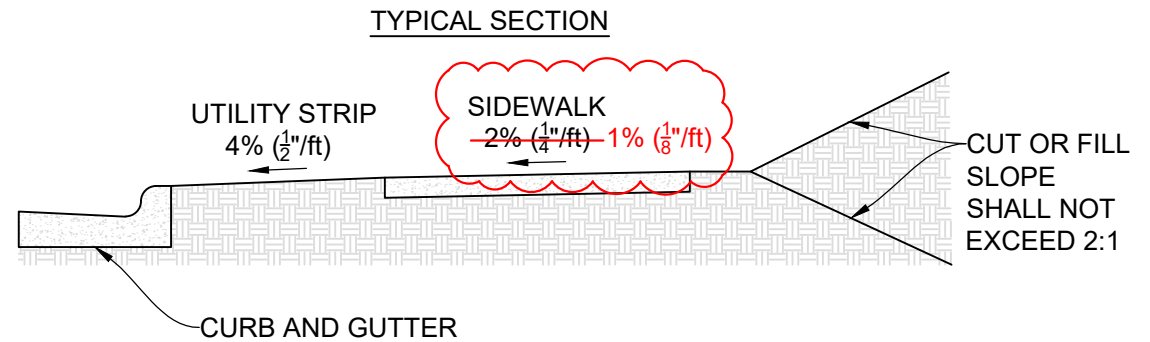
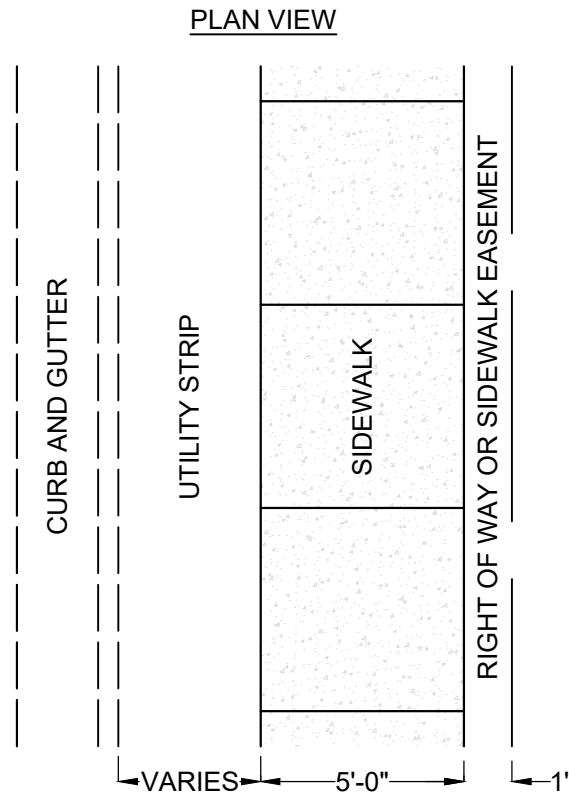
1. RESIDENTIAL DRIVEWAYS TO BE 12' TO 24' WIDTH EXCEPT WHEN CONNECTING TO AN ALLEY WIDTH MAY BE INCREASED TO ALLOW AN ADDITIONAL 9' WIDE PARKING PAD IF DISTANCE FROM THE ALLEY TO THE STRUCTURE IS LESS THAN 18'.
2. COMMERCIAL & INDUSTRIAL DRIVEWAYS TO BE 18' TO 30' WIDTH.
3. ALLEY CONNECTIONS TO BE 16' WIDTH.
4. ALL CONCRETE SHALL BE 3000 PSI.
5. IF CURB CUT IS WITHIN 5' FROM A JOINT, THEN THE CUT SHALL BE MADE AT THAT JOINT.
6. ALL DRIVEWAYS SHALL BE INSTALLED WITH A SIDEWALK SECTION AND UTILITY STRIP AS SHOWN. SIDEWALK SECTIONS SHALL HAVE 1/4" PER FOOT FALL TOWARDS THE STREET.
7. LOCATE DRIVEWAYS A MINIMUM OF 3 FEET FROM SEWER SERVICE LINES.



NOTES:

1. RESIDENTIAL DRIVEWAYS TO BE 12' TO 24' WIDTH EXCEPT WHEN CONNECTING TO AN ALLEY WIDTH MAY BE INCREASED TO ALLOW AN ADDITIONAL 9' WIDE PARKING PAD IF DISTANCE FROM THE ALLEY TO THE STRUCTURE IS LESS THAN 18'.
2. COMMERCIAL & INDUSTRIAL DRIVEWAYS TO BE 18' TO 30' WIDTH.
3. ALLEY CONNECTIONS TO BE 16' WIDTH.
4. ALL CONCRETE SHALL BE 3000 PSI.
5. PIPE SHALL BE SIZED BY ENGINEER.
6. HEADWALLS, ENDWALLS, OR FLARED END SECTIONS SHALL BE INSTALLED AT ENDS OF DRIVEWAY PIPE.
7. LOCATE DRIVEWAYS A MINIMUM OF 3 FEET FROM SEWER SERVICE LINES.





NOTES:

1. TRANSVERSE EXPANSION JOINTS SHALL BE SPACED 50' MAXIMUM.
2. CONTRACTION JOINTS SHALL BE SPACED 5' MAXIMUM.
3. ALL CONCRETE TO BE FINISHED WITH CURING COMPOUND.
4. ALL CONCRETE SHALL CONFORM TO ALL APPLICABLE REQUIREMENTS OF THE ACI.
5. SIDEWALK EASEMENT REQUIRED WHEN SIDEWALK IS OUTSIDE PUBLIC RIGHT OF WAY.

TOWN OF APEX
STANDARDS

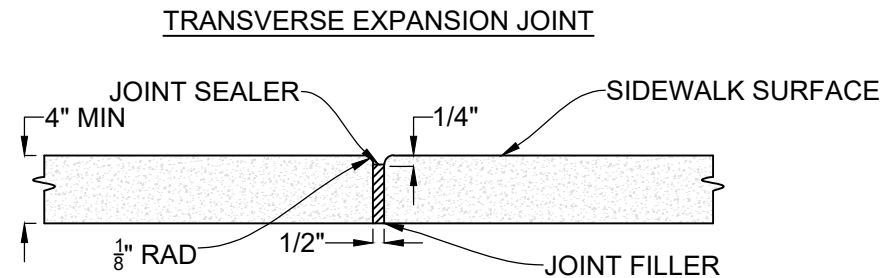
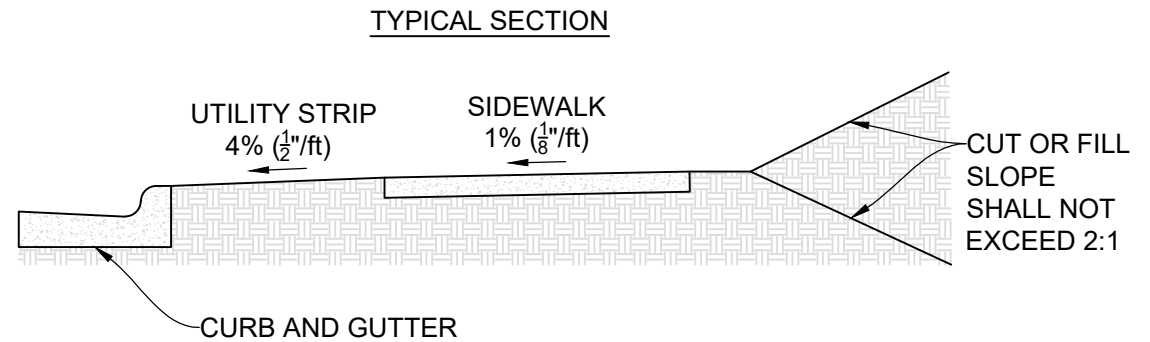
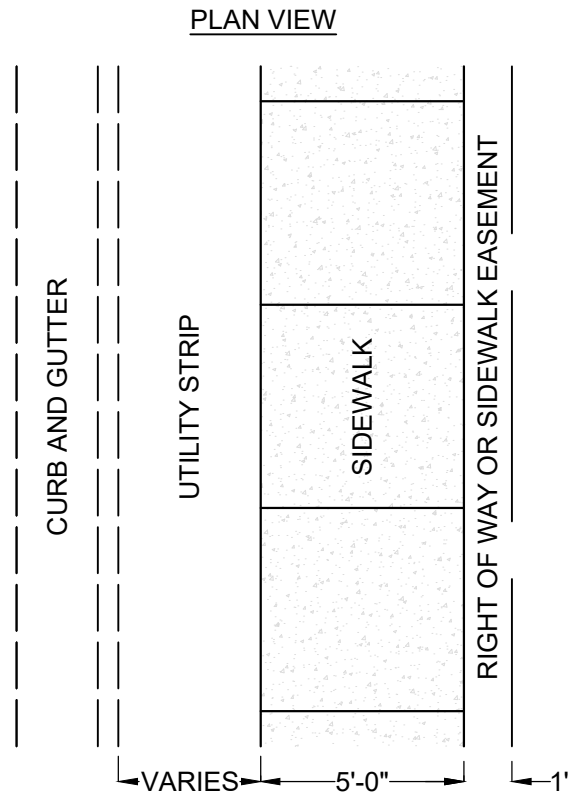
EFFECTIVE: MARCH 7, 2017

CONCRETE SIDEWALK

STD. NO.

300.08

SHEET 1 OF 1



NOTES:

1. TRANSVERSE EXPANSION JOINTS SHALL BE SPACED 50' MAXIMUM.
2. CONTRACTION JOINTS SHALL BE SPACED 5' MAXIMUM.
3. ALL CONCRETE TO BE FINISHED WITH CURING COMPOUND.
4. ALL CONCRETE SHALL CONFORM TO ALL APPLICABLE REQUIREMENTS OF THE ACI.
5. SIDEWALK EASEMENT REQUIRED WHEN SIDEWALK IS OUTSIDE PUBLIC RIGHT OF WAY.

**TOWN OF APEX
STANDARDS**

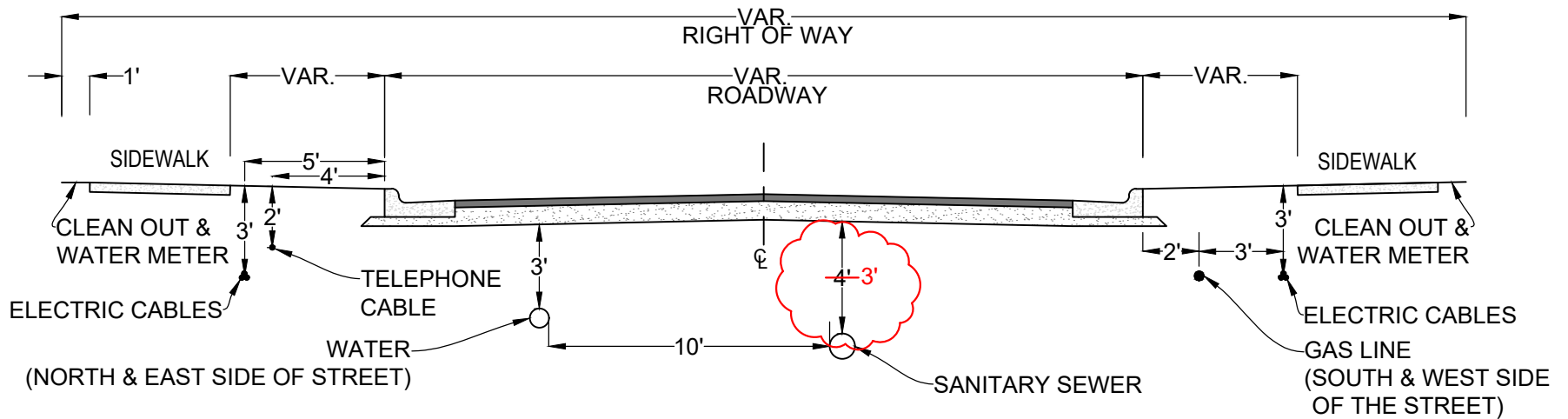
EFFECTIVE: APRIL 12, 2022

CONCRETE SIDEWALK

STD. NO.

300.08

SHEET 1 OF 1



NOTE:

~~THERE SHALL BE AN 18" VERTICAL SEPARATION BETWEEN WATER LINES, SEWER LINES, & OTHER UTILITIES~~
 VERTICLE SEPARATION SHALL ADHERE TO THE FOLLOWING.

VERTICAL SEPARATION	
UTILITY	DISTANCE (INCHES)
WATER & SEWER	18
WATER ABOVE STORM	24
WATER BELOW STORM DRAIN	18
SEWER & STORM	24
ALL OTHER UTILITIES	12

TOWN OF APEX
STANDARDS

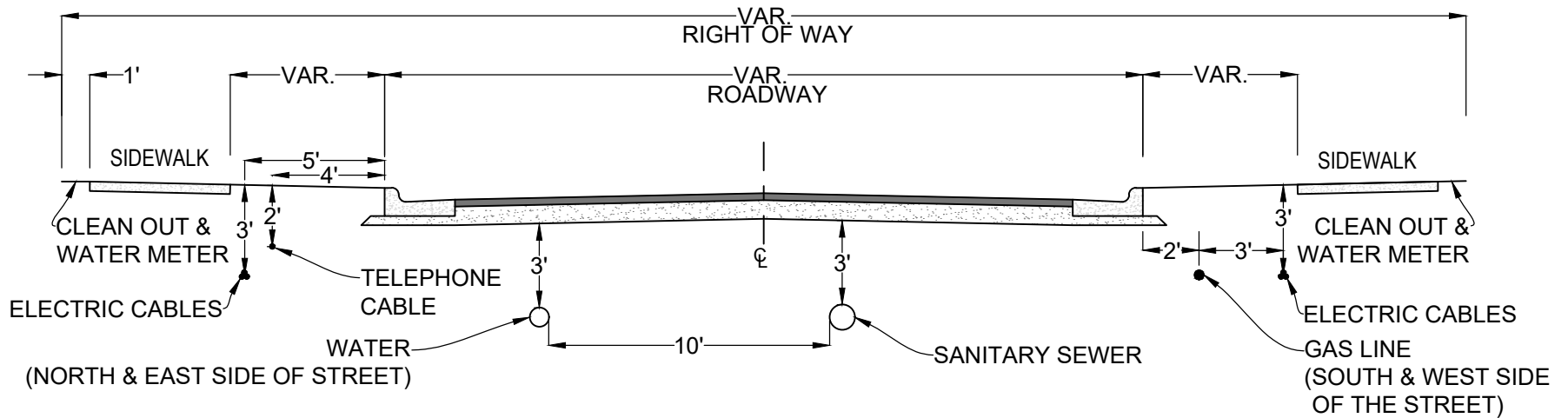
EFFECTIVE: NOVEMBER 20, 2007

STREET CROSS SECTION SHOWING
UTILITY LOCATIONS

STD. NO.

300.10

SHEET 1 OF 1



NOTE:
VERTICLE SEPARATION SHALL ADHERE TO THE FOLLOWING.

VERTICAL SEPARATION	
UTILITY	DISTANCE (INCHES)
WATER & SEWER	18
WATER ABOVE STORM	24
WATER BELOW STORM DRAIN	18
SEWER & STORM	24
ALL OTHER UTILITIES	12

CLASSIFICATION	DESIGN SPEED (MPH)	MAX. GRADE (%)	HORIZONTAL CURVE CONTROLS		VERTICAL CURVE CONTROLS	
			MAX. SUPER ELEVATION (%)	MIN. CL RADIUS (FT)	MIN. LENGTH CREST (FT)	MIN. LENGTH SAG (FT)
THOROUGHFARE	50	7	4	926	84A	96A
MAJOR COLLECTOR	35	10	4	371	29A	49A
MINOR COLLECTOR	30	10	NC	333	19A	37A
MINOR COLLECTOR - RESIDENTIAL STREET	25	10	NC	198	12A	26A
ALLEY	---	10	RC	50	12A	26A

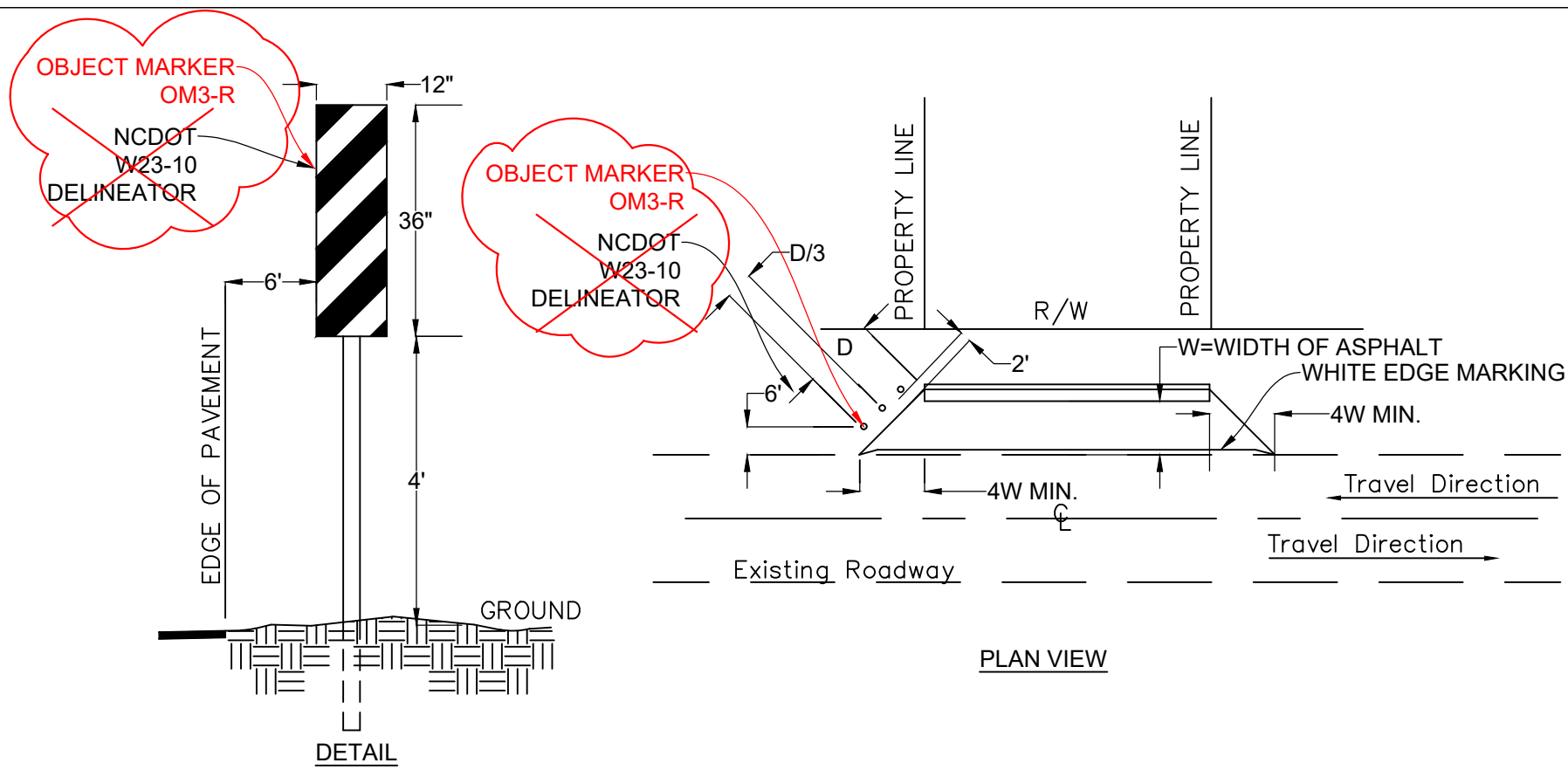
NOTES:

1. A = ALGEBRAIC DIFFERENCE IN GRADES
2. NC / RC = NORMAL CROWN / REVERSE CROWN
3. THIS TABLE OUTLINES MINIMUMS FOR ROADWAY DESIGN. SOUND ENGINEERING JUDGEMENT SHOULD BE EXERCISED WHEN USING MINIMUM DESIGN STANDARDS FOR ROADS.
4. ALTERNATE DESIGNS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION PUBLISHED BY AASHTO: A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS.
5. GRADES SHALL NOT EXCEED 5% WITHIN 100 FEET OF STOP OR YIELD CONDITION.

CLASSIFICATION	DESIGN SPEED (MPH)	MAX. GRADE (%)	HORIZONTAL CURVE CONTROLS		VERTICAL CURVE CONTROLS	
			MAX. SUPER ELEVATION (%)	MIN. CL RADIUS (FT)	MIN. LENGTH CREST (FT)	MIN. LENGTH SAG (FT)
THOROUGHFARE	50	7	4	926	84A	96A
MAJOR COLLECTOR	35	10	4	371	29A	49A
MINOR COLLECTOR	30	10	NC	333	19A	37A
RESIDENTIAL STREET	25	10	NC	198	12A	26A
ALLEY	---	10	RC	50	12A	26A

NOTES:

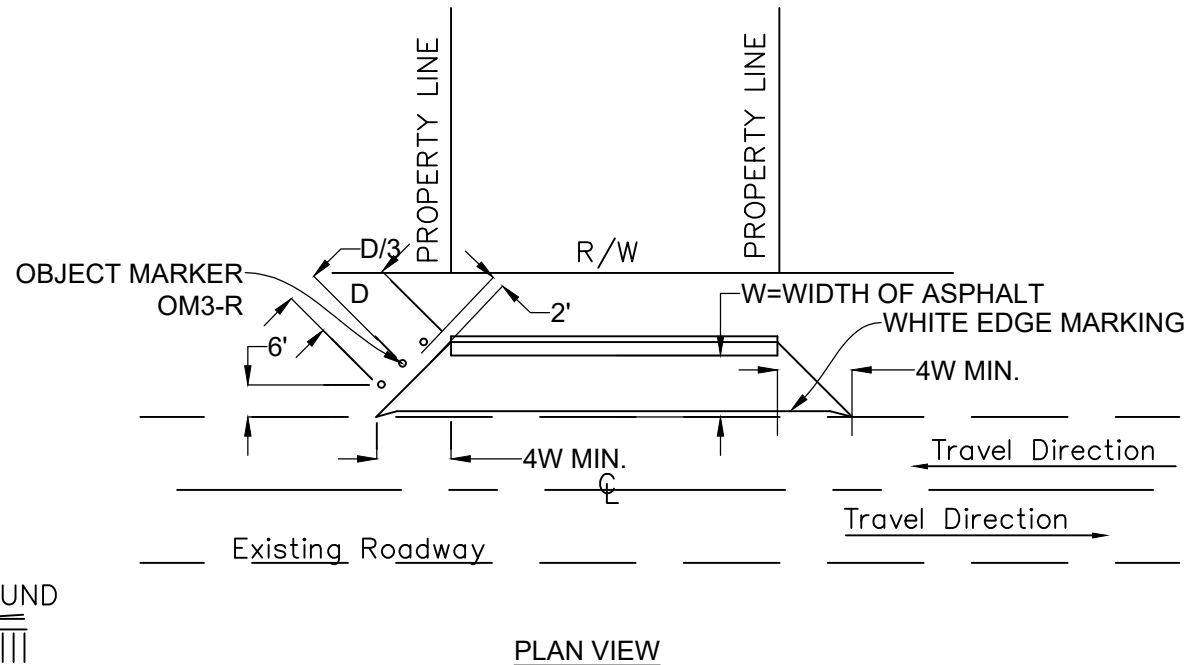
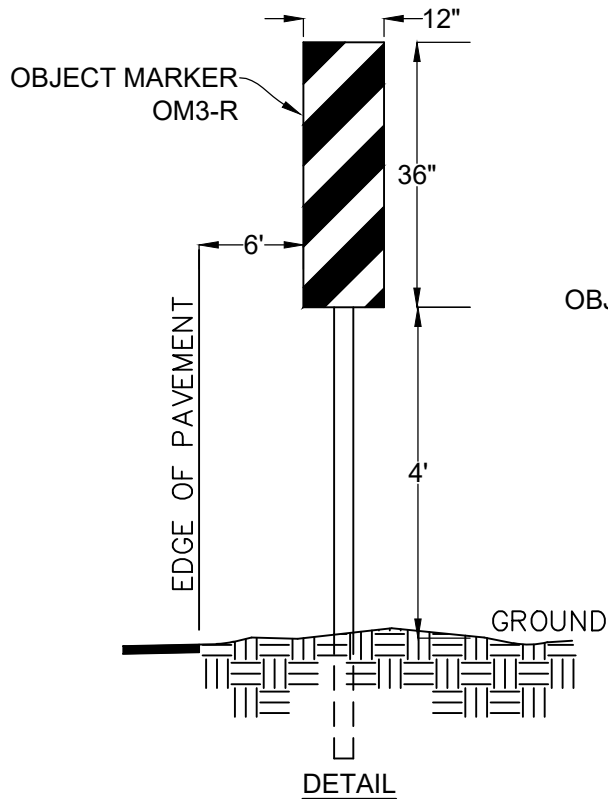
1. A = ALGEBRAIC DIFFERENCE IN GRADES
2. NC / RC = NORMAL CROWN / REVERSE CROWN
3. THIS TABLE OUTLINES MINIMUMS FOR ROADWAY DESIGN. SOUND ENGINEERING JUDGEMENT SHOULD BE EXERCISED WHEN USING MINIMUM DESIGN STANDARDS FOR ROADS.
4. ALTERNATE DESIGNS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION PUBLISHED BY AASHTO: A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS.
5. GRADES SHALL NOT EXCEED 5% WITHIN 100 FEET OF STOP OR YIELD CONDITION.



PLAN VIEW

NOTES:

- A. BOTTOM EDGE OF DELINEATOR 4' ABOVE ROADWAY.
 - B. THE DELINEATOR STRIPES SHALL SLOPE UPWARD
 - C. DELINEATORS TO BE SPACED ON CENTERS AT 1/3 OF THE DISTANCE D SHOWN BELOW FOR NEW ASPHALT WIDTHS < 15 FT. OR AT 1/4 OF D FOR NEW ASPHALT WIDTHS > 15 FT.
 - D. DELINEATORS SHALL BE MOUNTED ON BREAKAWAY POSTS.
 - E. DELINEATORS SHALL BE REFLECTORIZED.
1. TAPER ON BOTH ENDS OF ROADWAY WIDENING SHALL BE A MINIMUM 4:1. THE TOWN ENGINEER AND/OR NCDOT RESERVE THE RIGHT TO REQUIRE A LONGER TAPER IF DEEMED NECESSARY FOR THE SAFETY OF THE PUBLIC.
 2. A SOLID WHITE EDGE MARKING SHALL BE EXTENDED ALONG WIDENING AT EXISTING PAVEMENT.
 3. DELINEATORS SHALL ONLY BE REQUIRED AT TAPER FROM CURB TO EXISTING PAVEMENT IN DIRECTION OF TRAVEL.
 4. DELINEATORS SHALL BE ORIENTED SUCH THAT THE FACE OF THE SIGN IS PERPENDICULAR TO TRAVEL LANE.

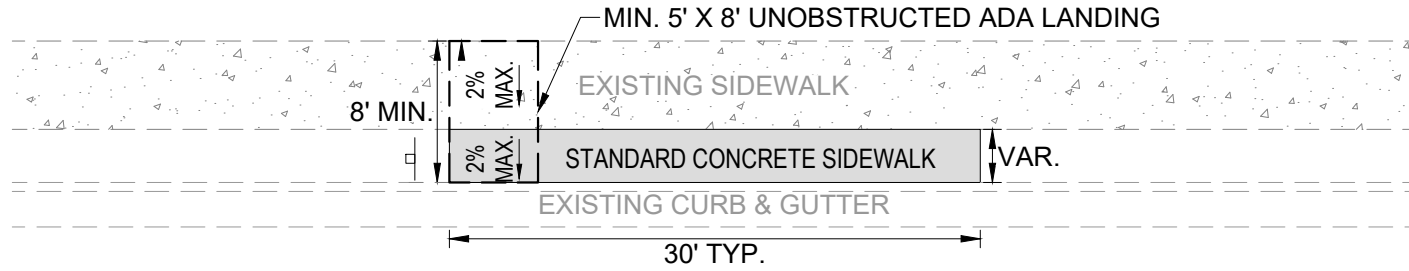


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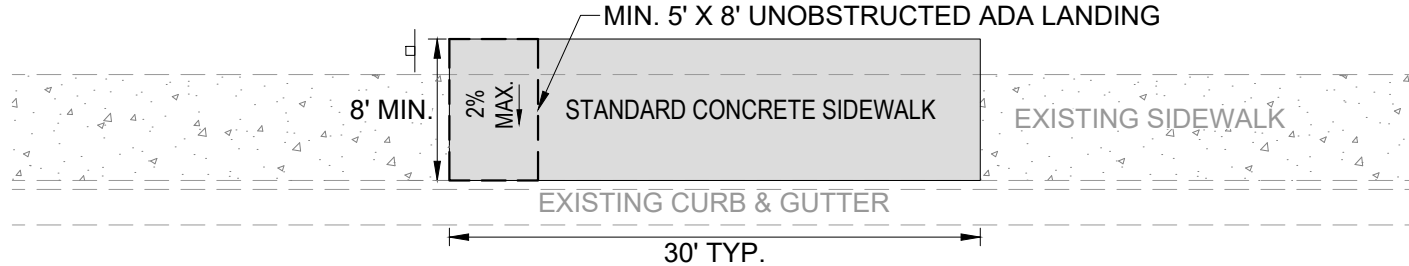
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LANDING PAD W/ SIDEWALK & UTILITY STRIP

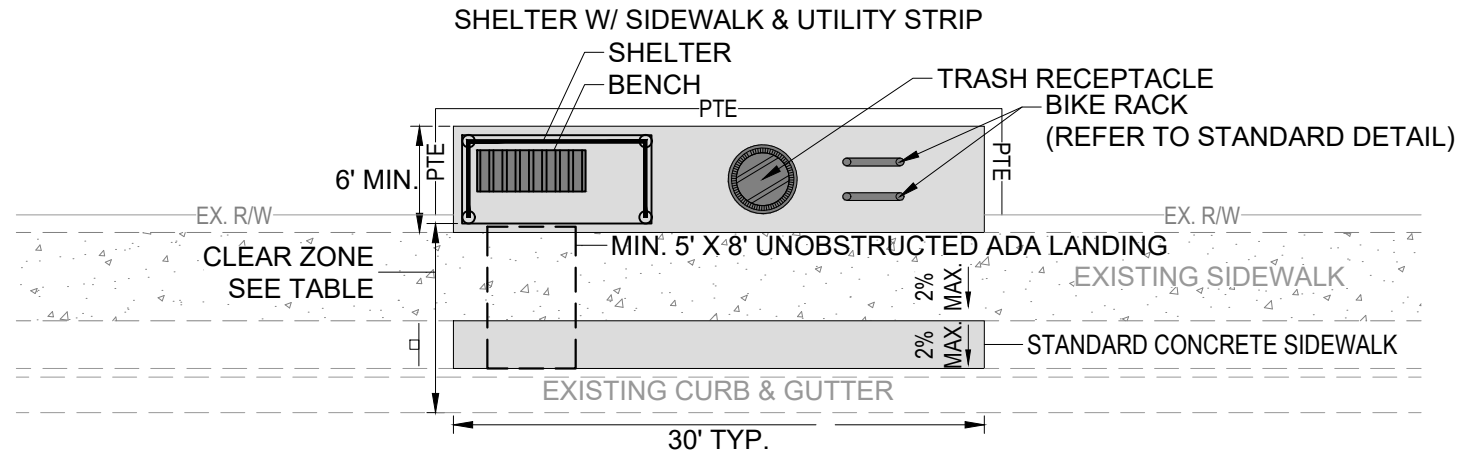


LANDING PAD W/ SIDEWALK AT BACK OF CURB

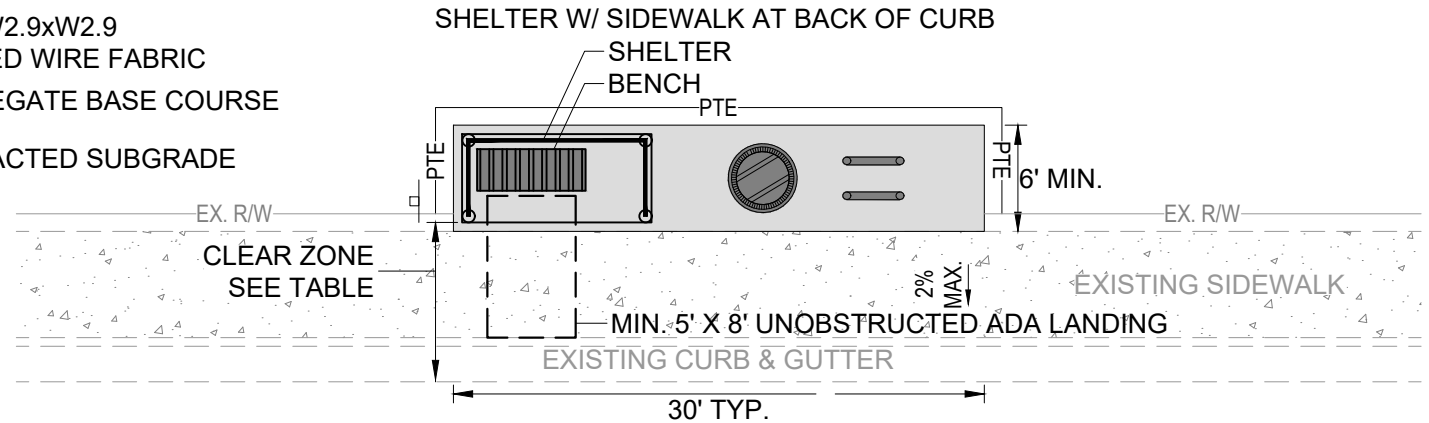
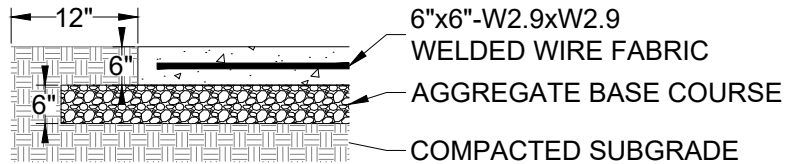


NOTES:

1. EVALUATE EXISTING SIDEWALK FOR ADA COMPLIANCE. REMOVE AND REPLACE AS NEEDED.
2. EXISTING SIDEWALK SHALL BE REMOVED AND REPLACED AT THE DISCRETION OF THE ENGINEER.
3. GRADE TO DIVERT STORMWATER AWAY FROM THE LANDING PAD.
4. INSTALL EXPANSION JOINT BETWEEN ALL NEW AND EXISTING CONCRETE.
5. IN CONSTRAINED AREAS THE LANDING PAD LENGTH MAY BE NARROWED TO THE 5 FEET ADA MINIMUM SUBJECT TO REVIEW AND APPROVAL.
6. A FLAT CLEARED AREA 1 FOOT MINIMUM WIDTH SHALL BE ESTABLISHED AROUND THE LANDING PAD.



AMENITY PAD TYPICAL SECTION



NOTES:

1. BUS STOP LOCATIONS WITH NO CURB AND GUTTER REQUIRE PROPOSED SHELTERS TO BE LOCATED OUTSIDE THE CLEAR RECOVERY AREA AS DEFINED BY THE LATEST VERSION OF THE AASHTO ROADSIDE DESIGN GUIDE.
2. ANY AMENITIES PROPOSED WILL REQUIRE REVIEW AND APPROVAL BY TOWN OF APEX. IF A CUSTOM SHELTER IS PROPOSED WITHIN NCDOT RIGHT-OF-WAY, THE SHELTER MUST BE ADDED TO NCDOT'S APPROVED PRODUCTS LIST PRIOR TO INSTALLATION.
3. ANY REQUIRED STRUCTURAL CALCULATIONS FOR CUSTOM SHELTERS ARE TO BE PROVIDED TO TOWN OF APEX PRIOR TO APPROVAL.
4. BUS SHELTERS SHALL BE LOCATED A MINIMUM OF 15 FEET FROM FIRE HYDRANTS AND UTILITY POLES.
5. BUS SHELTERS AT NEAR SIDE STOPS ARE TO BE LOCATED ON SIDE OF PAD FARTHEST FROM THE INTERSECTION
6. A MINIMUM 6 FEET WIDE PEDESTRIAN PATH IS TO BE RETAINED BETWEEN THE BACK OF CURB AND ANY AMENITIES WHERE SIDEWALK IS PLANNED. A MINIMUM 8 FEET WIDE PEDESTRIAN PATH IS TO BE RETAINED BETWEEN THE BACK OF CURB AND ANY AMENITIES WHERE SIDE PATH OR STREET-SIDE GREENWAY IS PLANNED.
7. A PERMANENT TRANSIT EASEMENT (PTE) OR PUBLIC RIGHT-OF-WAY IS TO BE PROVIDED FOR THE AMENITY AREA IF LOCATED OUTSIDE OF EXISTING RIGHT-OF-WAY, AT A MINIMUM 1' OFFSET FROM THE AMENITY AREA.
8. A FLAT CLEARED AREA 1 FOOT MINIMUM WIDTH SHALL BE ESTABLISHED AROUND THE LANDING PAD.

CLEAR ZONE MIN. DISTANCE TO SHELTER	
25 MPH	8'
35 MPH	10'
45 MPH	12'

TOWN OF APEX
STANDARDS

EFFECTIVE: APRIL 12, 2022

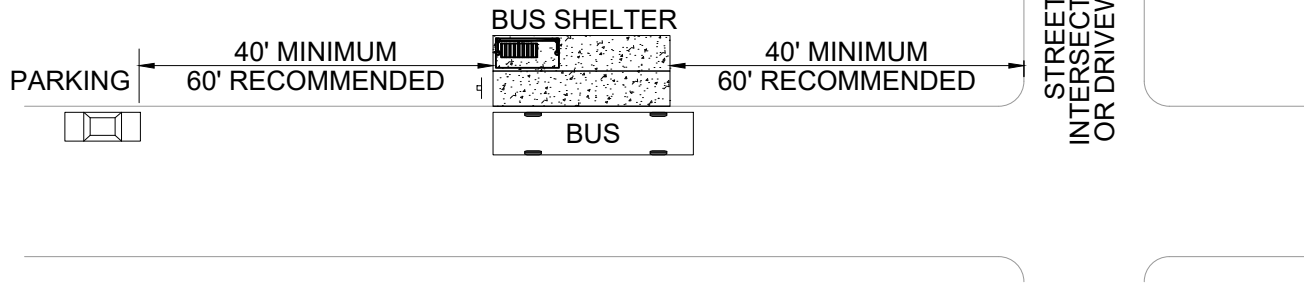
**BUS STOP
AMENITY PAD**

STD. NO.

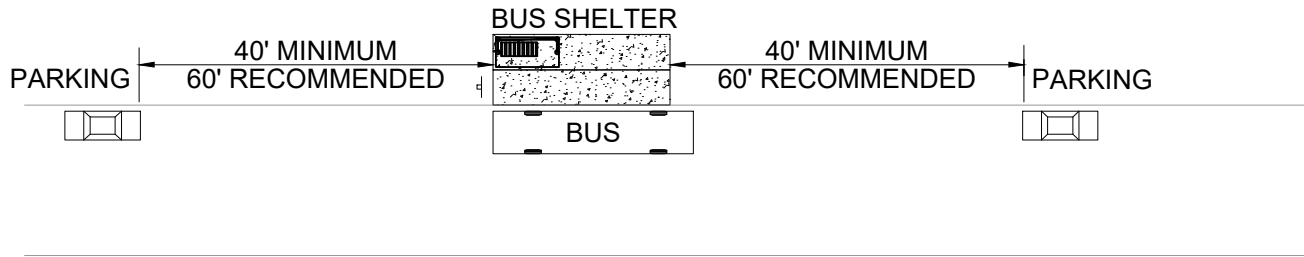
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SHEET 2 OF 3

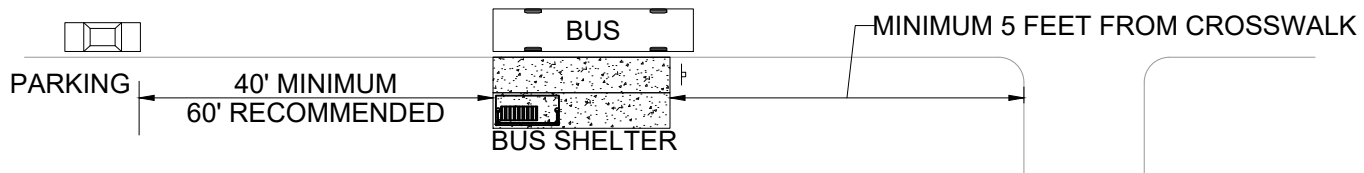
FAR SIDE BUS STOPS

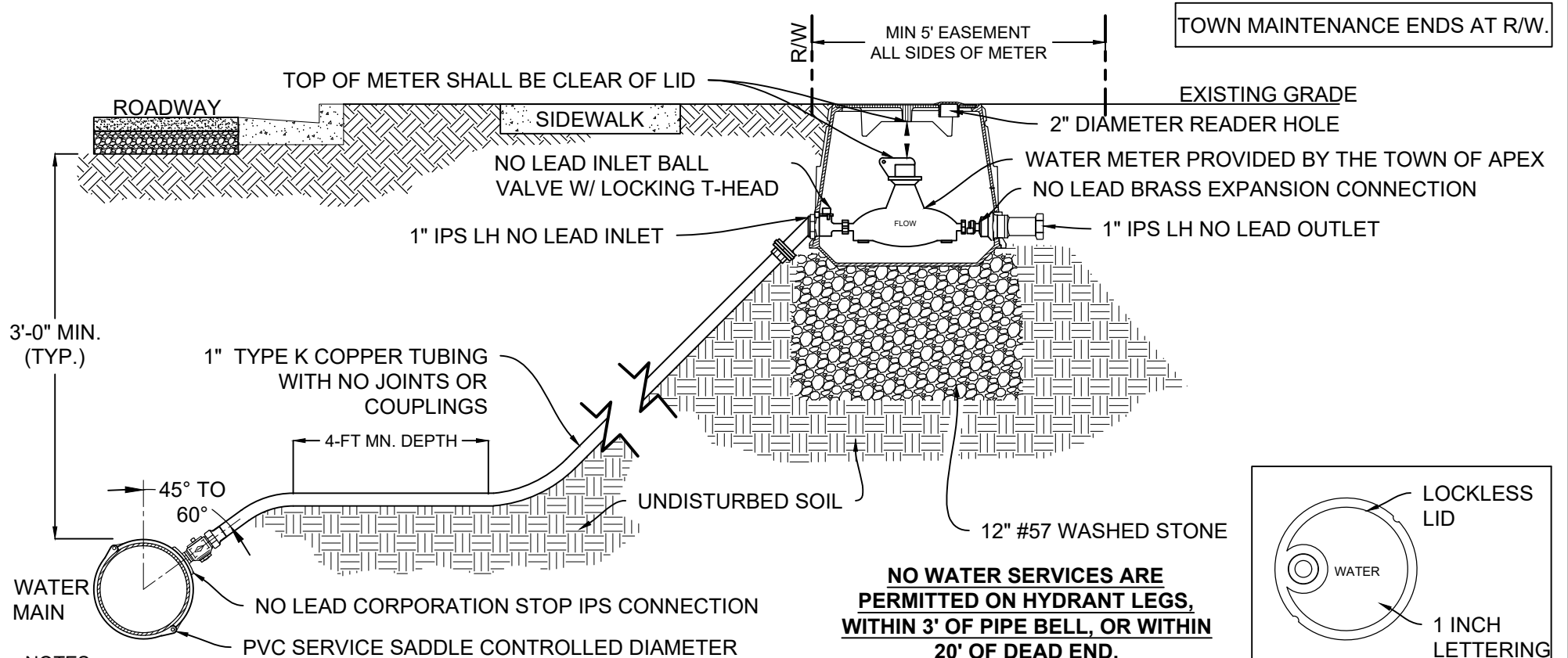


MID BLOCK BUS STOPS



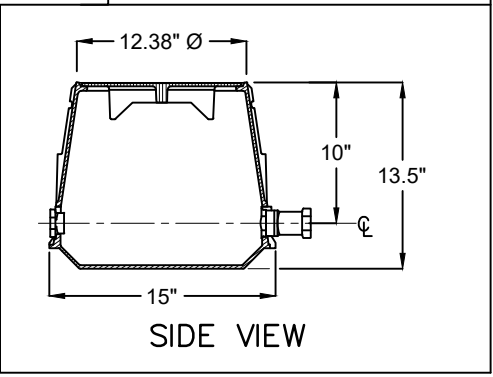
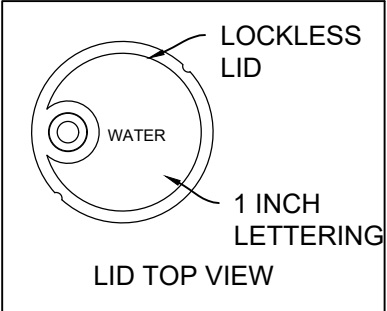
NEAR SIDE BUS STOPS





TOWN MAINTENANCE ENDS AT R/W.

NO WATER SERVICES ARE PERMITTED ON HYDRANT LEGS, WITHIN 3' OF PIPE BELL, OR WITHIN 20' OF DEAD END.



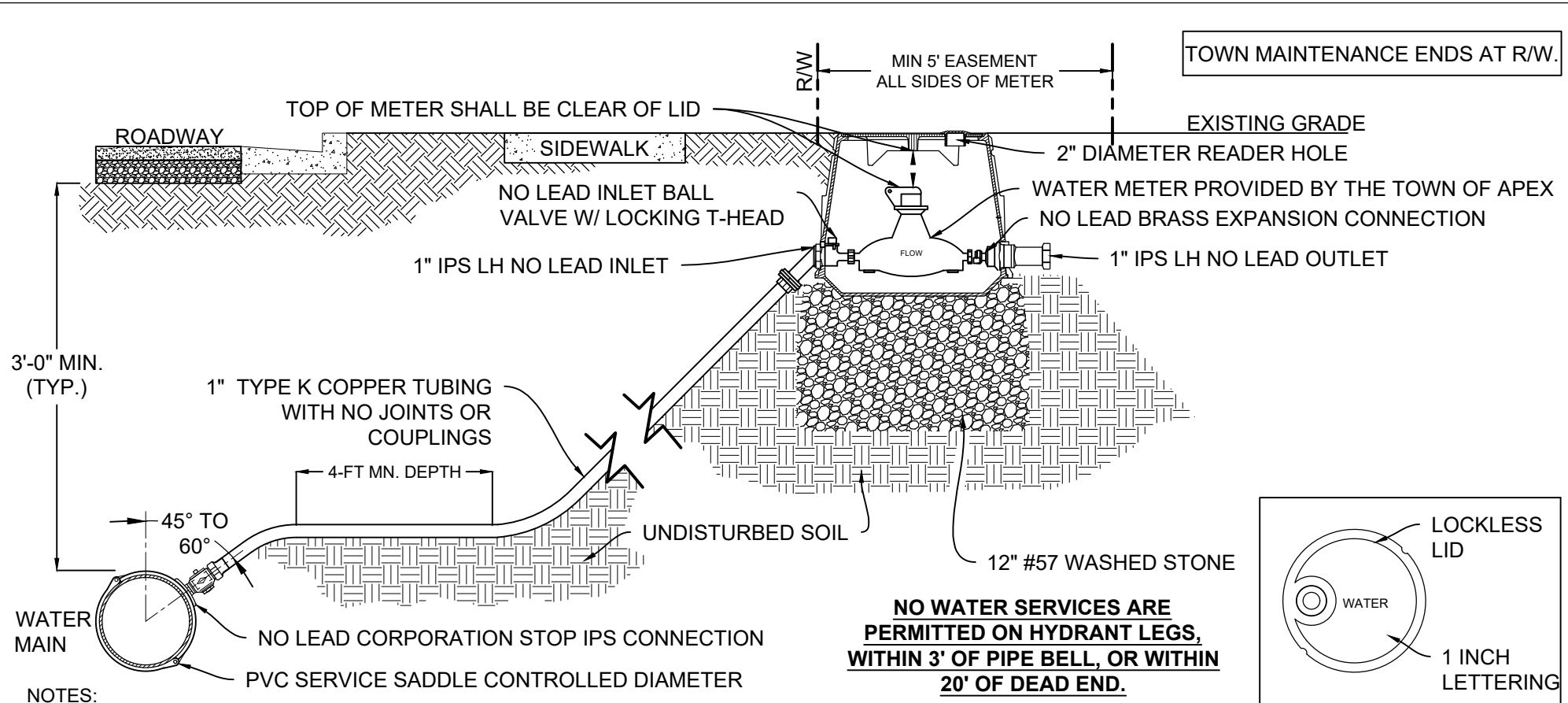
NOTES:

1. WATER METER SHALL NOT BE LOCATED IN AREAS SUBJECT TO VEHICULAR TRAFFIC.
2. ALL METER BOXES AND LIDS SHALL BE APPROVED BY THE TOWN.
3. ALL SERVICE LINES, VALVES AND FITTINGS SHALL COMPLY WITH AWWA C800.
4. THE INTERIOR AND EXTERIOR OF THE BOX AND LID SHALL BE COLORED BLACK.
5. ALL RELOCATIONS OF EXISTING OR PERMITTED INFRASTRUCTURE INCLUDING SERVICE PIPING AND METER BOXES SHALL BE PERMITTED AND INSPECTED IN CONFORMANCE WITH TOWN POLICIES AND PROCEDURES.
6. BOX AND LID SHALL BE HDPE. CAST IRON, ASTM A48, CLASS 25.
7. COPPER TUBING SHALL BE LEAD FREE, TYPE K SOFT COPPER TUBING CONFORMING TO ASTM STANDARD B58.
8. MARKING TAPE SHALL BE INSTALLED FOR ALL SERVICE CONNECTIONS FROM THE MAIN LINE TO THE METER FOR ALL NEW CONSTRUCTION OR RETROFIT INSTALLATIONS USING OPEN TRENCH METHODS.

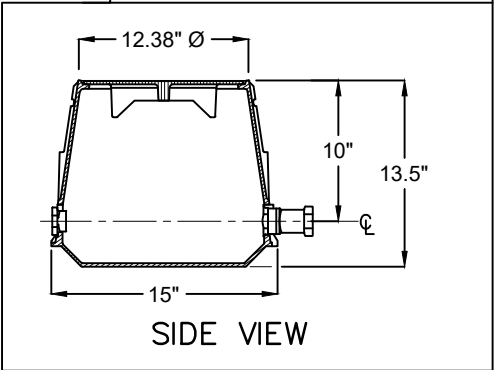
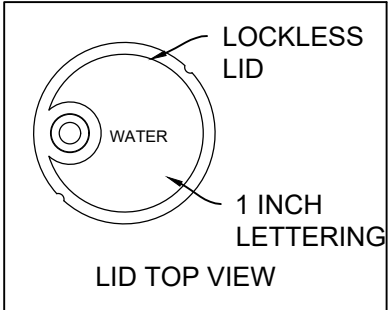
**TOWN OF APEX
STANDARDS**
EFFECTIVE: FEBRUARY 23, 2021

3/4" & 1" WATER SERVICE & METER BOX

STD. NO.
600.01
SHEET 2 OF 2



TOWN MAINTENANCE ENDS AT R/W.

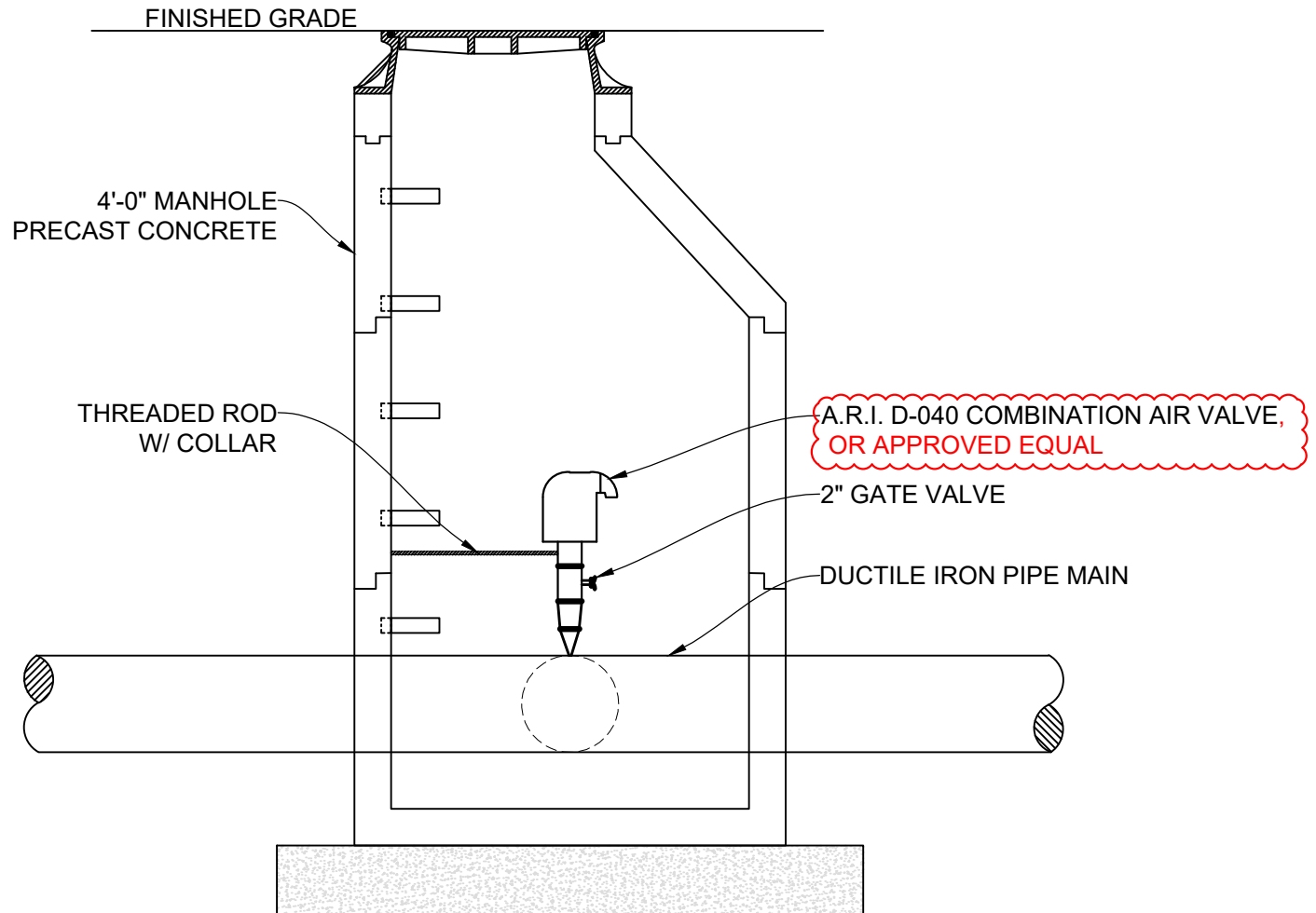


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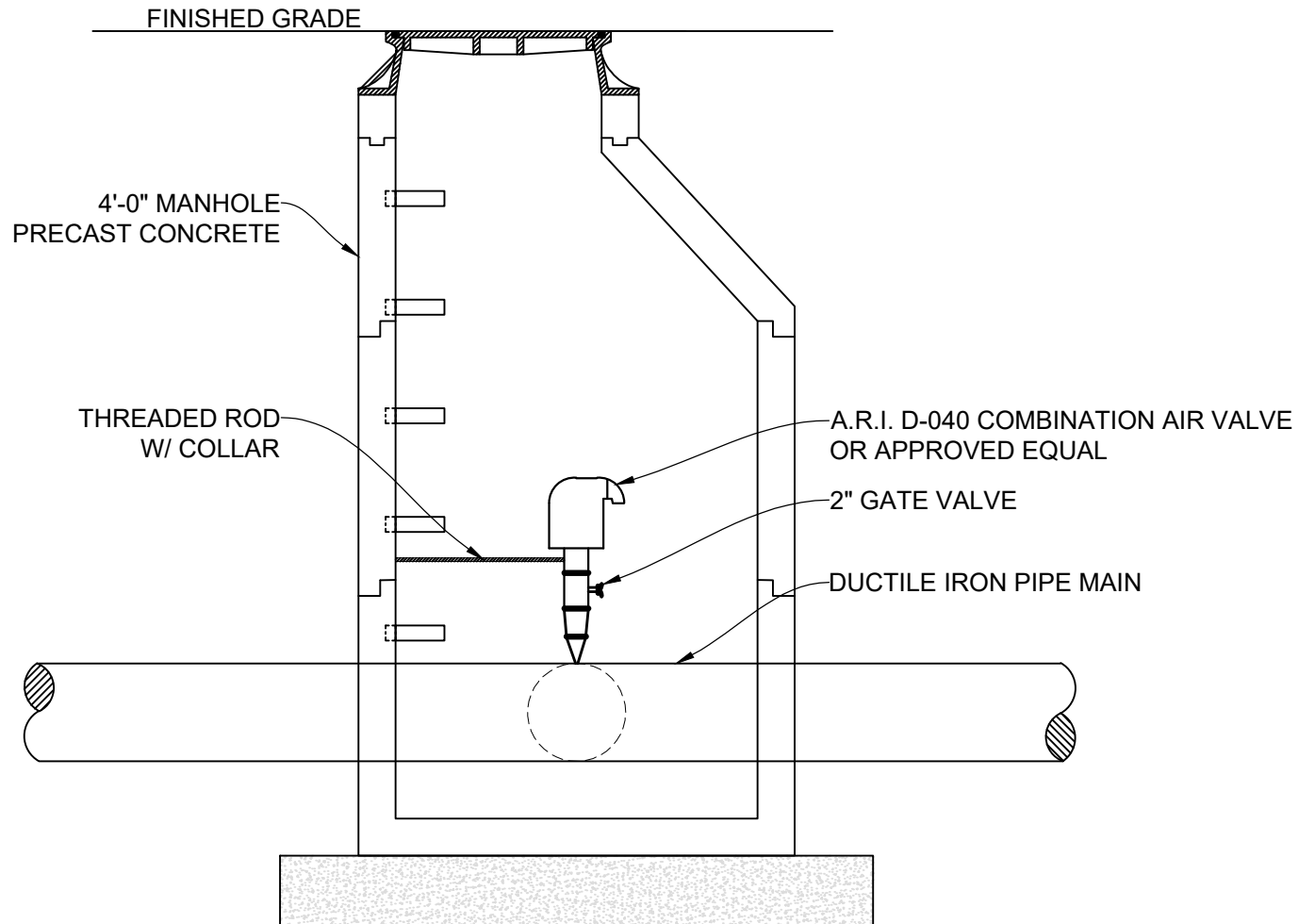
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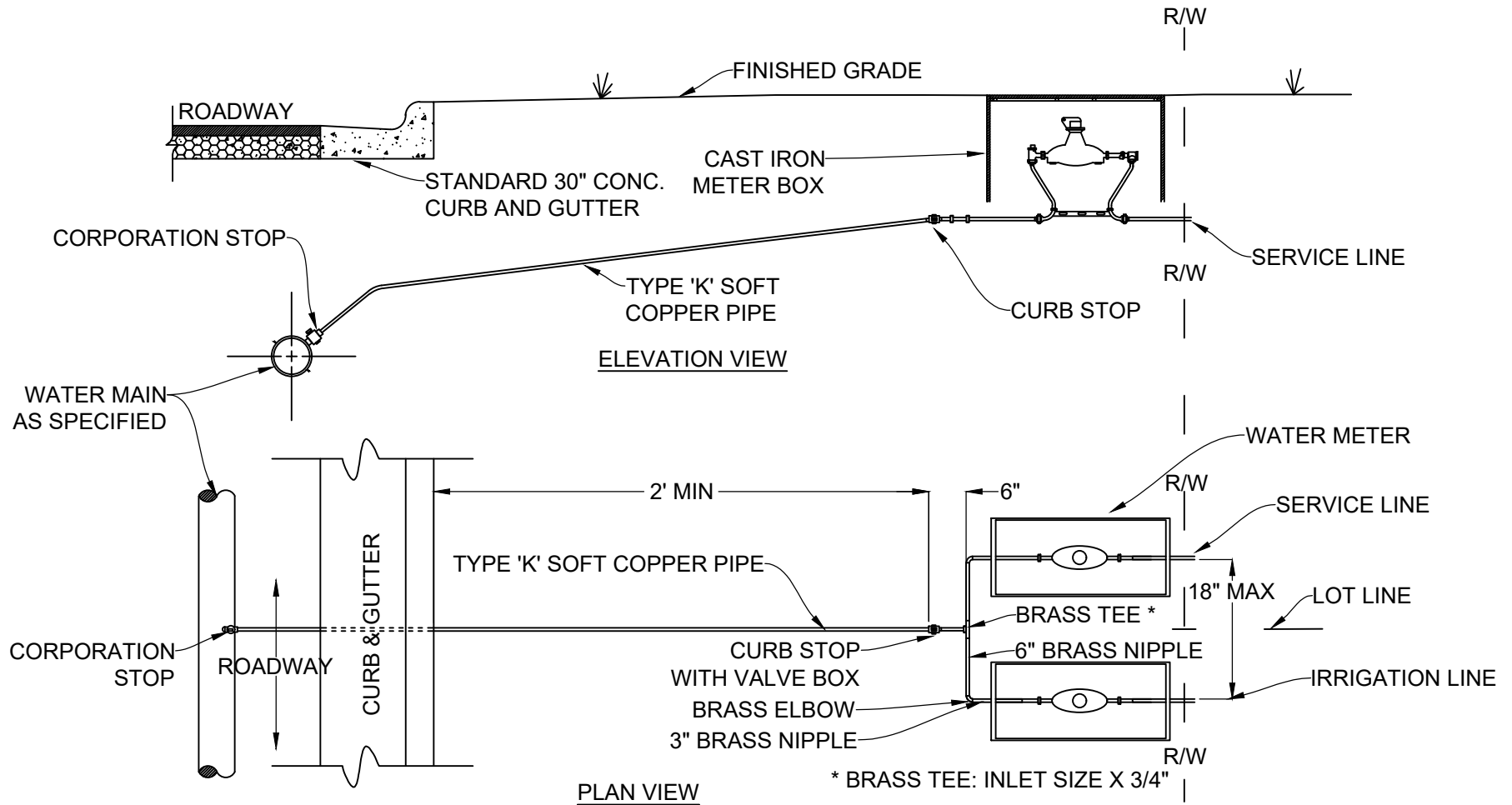
1. TAP SIZE AND ISOLATION VALVE TO BE SAME SIZE AS AIR VALVE.
2. ALL PIPING AND FITTINGS IN THE MANHOLE SHALL BE BRASS OR BRONZE UNLESS NOTED OTHERWISE.
3. MANHOLE STEPS SHALL BE PLACED 16" O.C. WHEN DEPTH OF MANHOLE EXCEEDS 4 FEET.
4. MANHOLE INTERIOR SHALL BE EPOXY COATED IN THE CASE OF SEWER.
5. WATER MAINS 16" AND LARGER OR IN OUTFALLS MAY REQUIRE 5 FOOT DIAMETER MANHOLES AND/OR FLAT TOP MANHOLES.



NOTES:

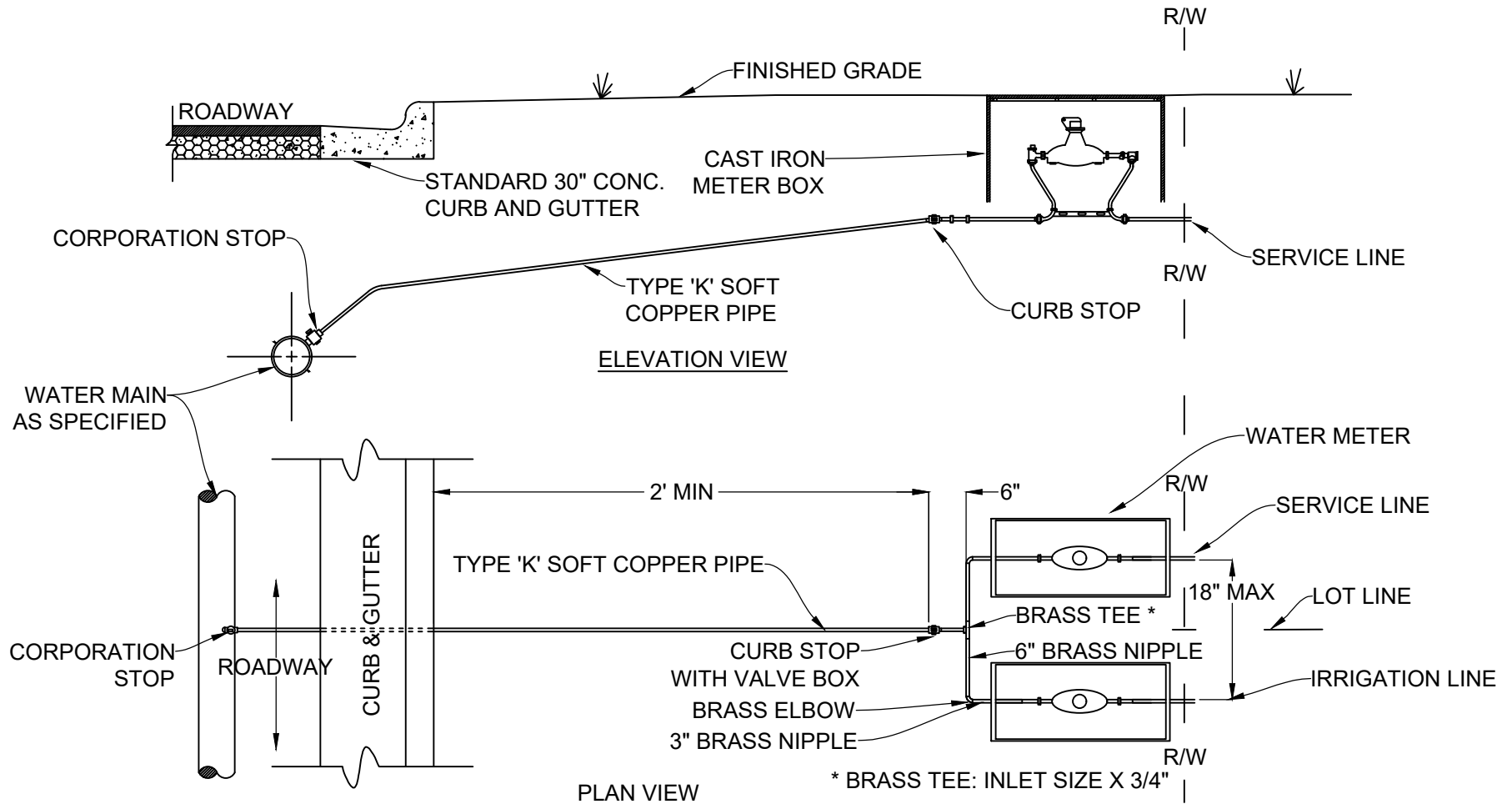
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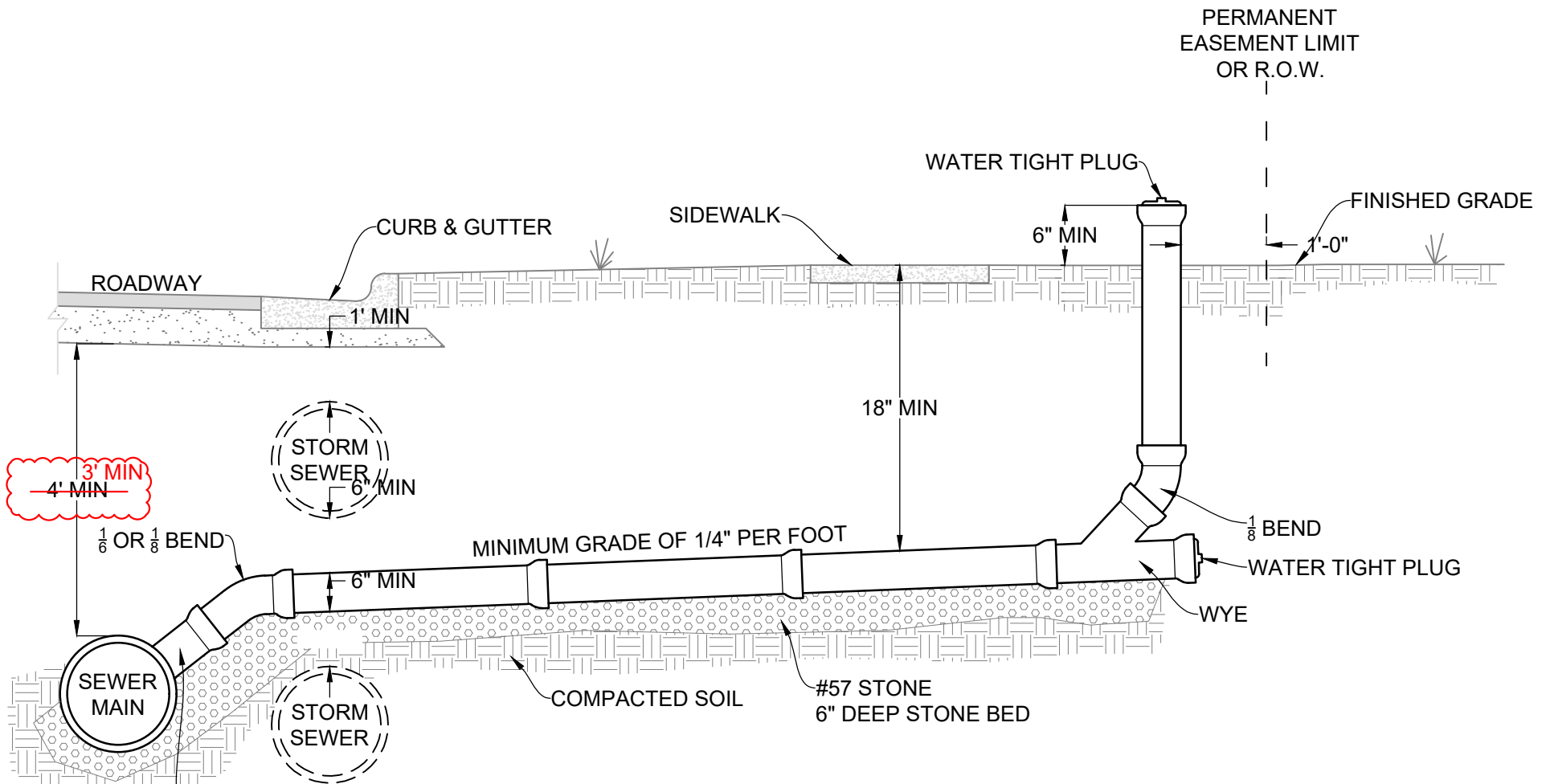
NOTES:

1. THERE SHALL BE NO MULTIPLE CONNECTIONS FOR SERVICES OTHER THAN 3/4" AND 1" (FOR RESIDENTIAL ONLY).
2. GATE VALVE REQUIRED ON SERVICE LINE 2" OR GREATER.
3. CURB STOPS SHALL BE AS MANUFACTURED BY FORD OR APPROVED EQUAL.
4. METER BOXES SHALL BE AS DESCRIBED IN THE STANDARD SPECIFICATIONS UNDER WATER DISTRIBUTION; HOWEVER, THE INLET SHALL BE IRON PIPE THREADED INLETS.
5. CURB STOPS SHALL BE CENTERED ON MULTIPLE BRANCH SERVICE AND CONTAINED WITHIN A VALVE BOX.



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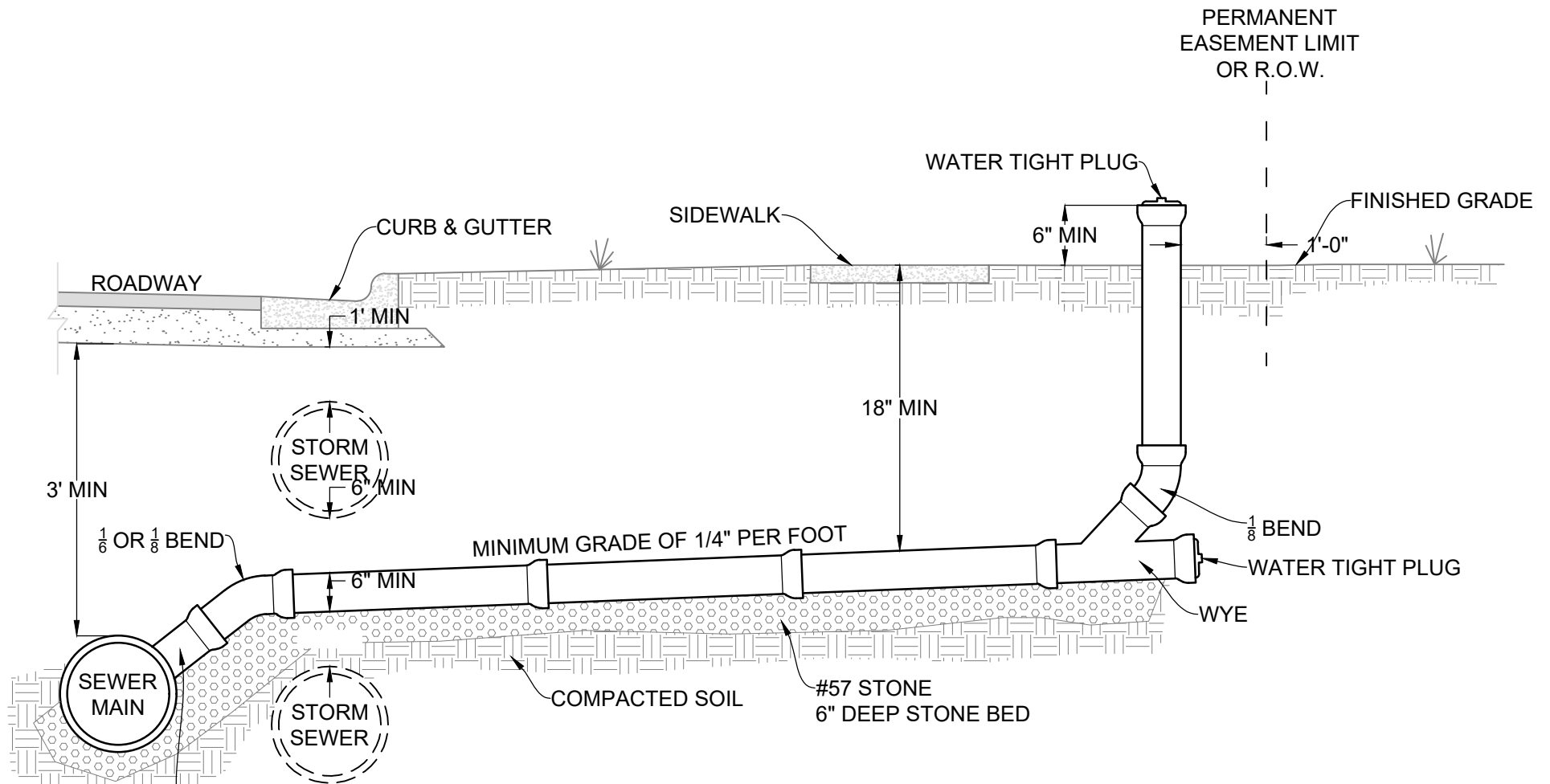


3' MIN
4' MIN

- DEPTH ≤ 16 FEET - CLASS "A" BEDDING**
- UNDERCUT TRENCH BOTTOM 6 INCHES MINIMUM BELOW PIPE
 - FILL PIPE TO SPRING LINE WITH NO. 57 OR 67 STONE
- DEPTH > 16 FEET - CLASS "B" BEDDING**
- UNDERCUT TRENCH BOTTOM 6 INCHES MINIMUM BELOW PIPE
 - FILL TO 6 INCHES ABOVE PIPE WITH NO. 57 OR 67 STONE
- INSTALLATIONS THAT EXCEED 20 FEET DEPTH SHALL BE DIP

IN-LINE WYE FITTING OR APPROVED TAPPING SADDLE PROVIDED AT TOP QUARTER OF THE MAIN

IN-LINE WYE REQUIRED FOR SANITARY SEWER SERVICES INSTALLED WITH NEW CONSTRUCTION WHEN PARCEL AND SERVICE LOCATIONS ARE KNOWN AND IDENTIFIED ON APPROVED PLANS



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- FILL TO 6 INCHES ABOVE PIPE WITH NO. 57 OR 67 STONE

INSTALLATIONS THAT EXCEED 20 FEET DEPTH SHALL BE DIP

TOWN OF APEX
STANDARDS

EFFECTIVE: APRIL 12, 2022

SANITARY SEWER TAP & SERVICE

STD. NO.

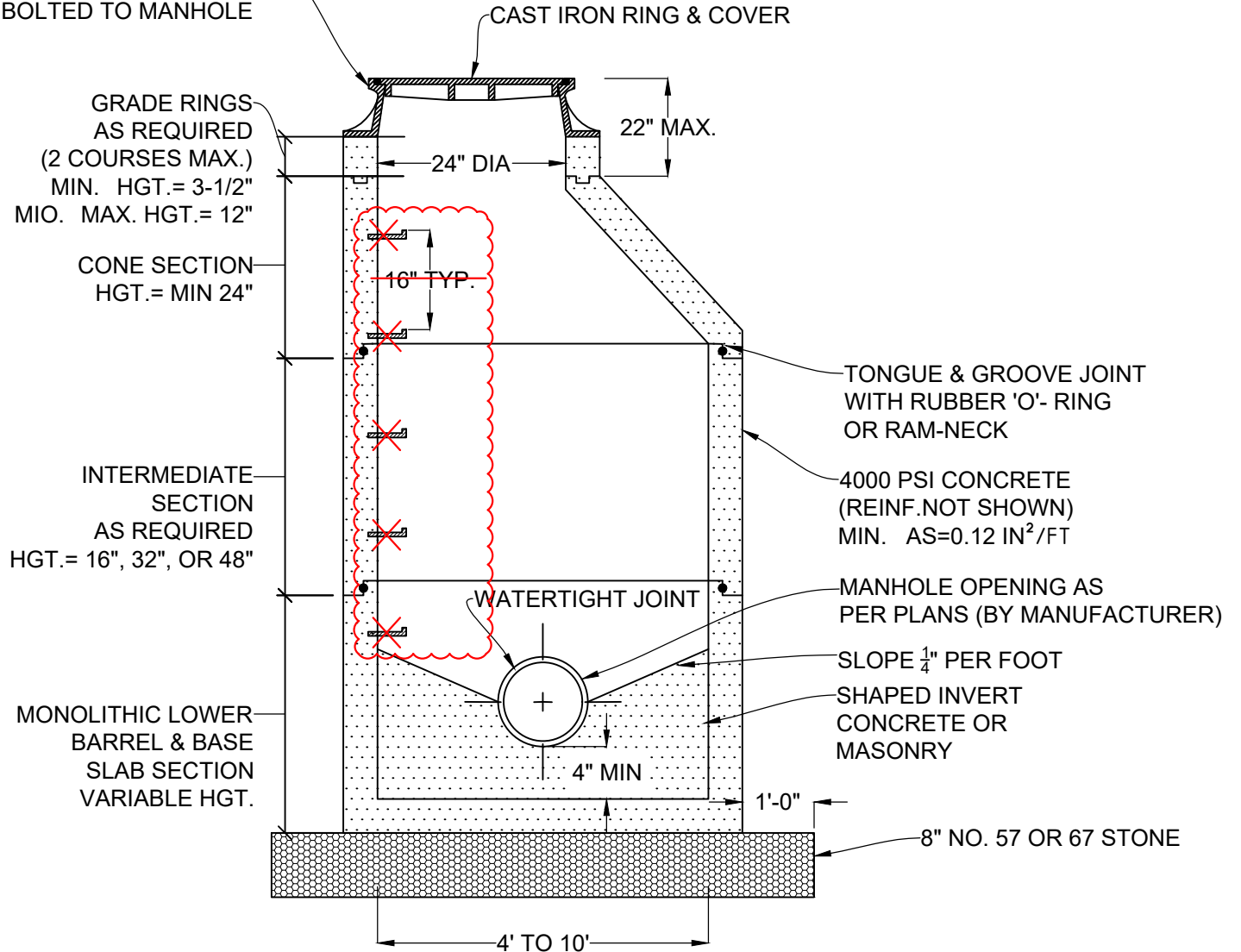
700.02

SHEET 1 OF 1

NOTES:

1. FOR DEAD-END MANHOLES, THE INVERT SHALL BE EXTENDED THROUGH THE MANHOLE.
2. ON THE INTERIOR OF THE MANHOLE, ALL JOINTS BETWEEN SECTIONS SHALL BE PARGED WITH NON-SHRINK GROUT.
3. ON THE INTERIOR OF ALL MANHOLES, ALL JOINTS BETWEEN SECTIONS SHALL BE PARGED WITH PRECO-PLUG QUICK SETTING GROUT.
4. ON THE EXTERIOR OF ALL MANHOLES, ALL JOINTS BETWEEN SECTIONS SHALL BE CONTINUOUSLY WRAPPED WITH 12" WIDE WATERPROOF BITUMINOUS TAPE.
5. SEWER MANHOLES WITHIN 1200 FEET OF FORCE MAIN CONNECTION SHALL HAVE INTERIOR EPOXY COATED.

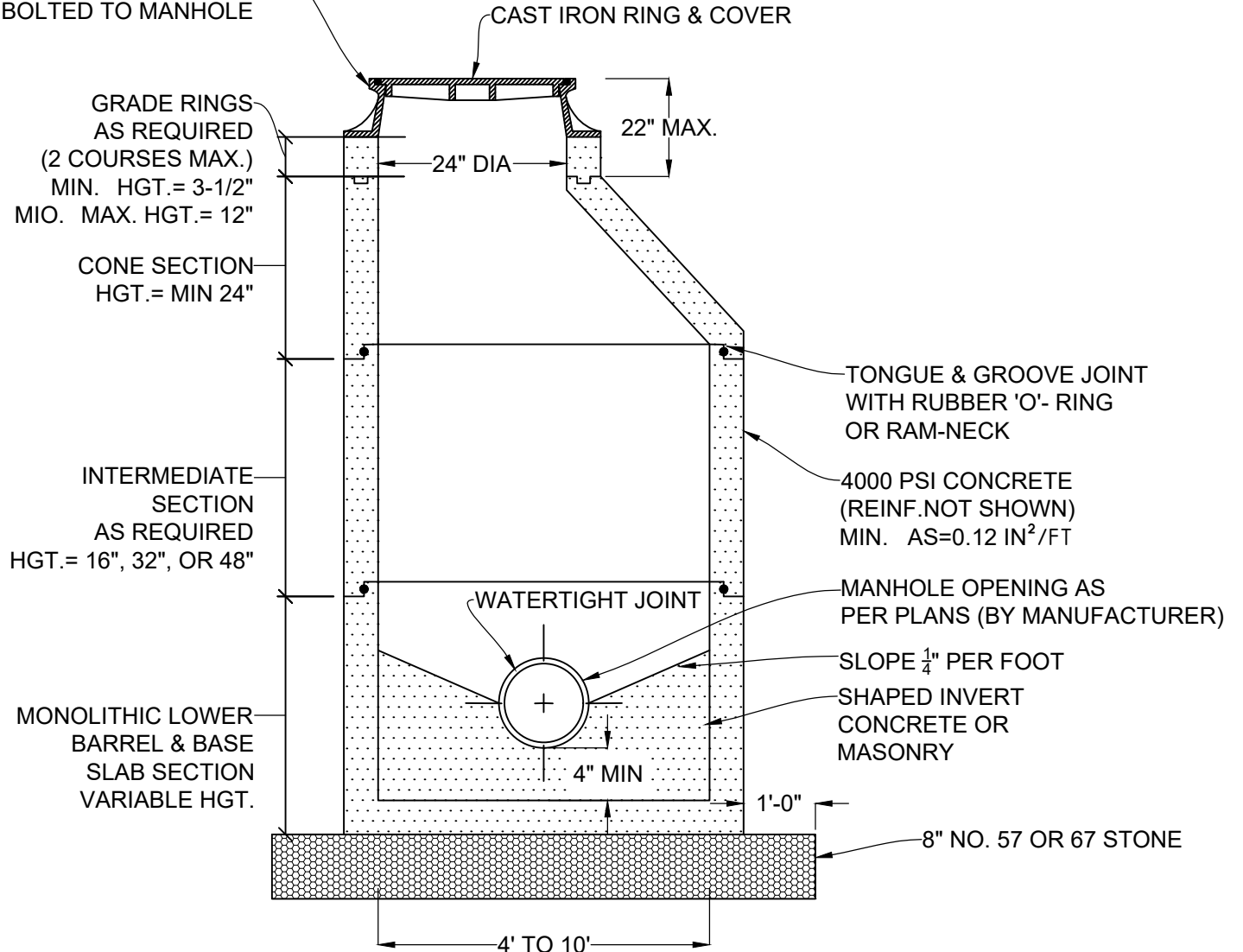
FRAME SHALL BE SEALED WITH RUBBER "O" RING AND BOLTED TO MANHOLE



NOTES:

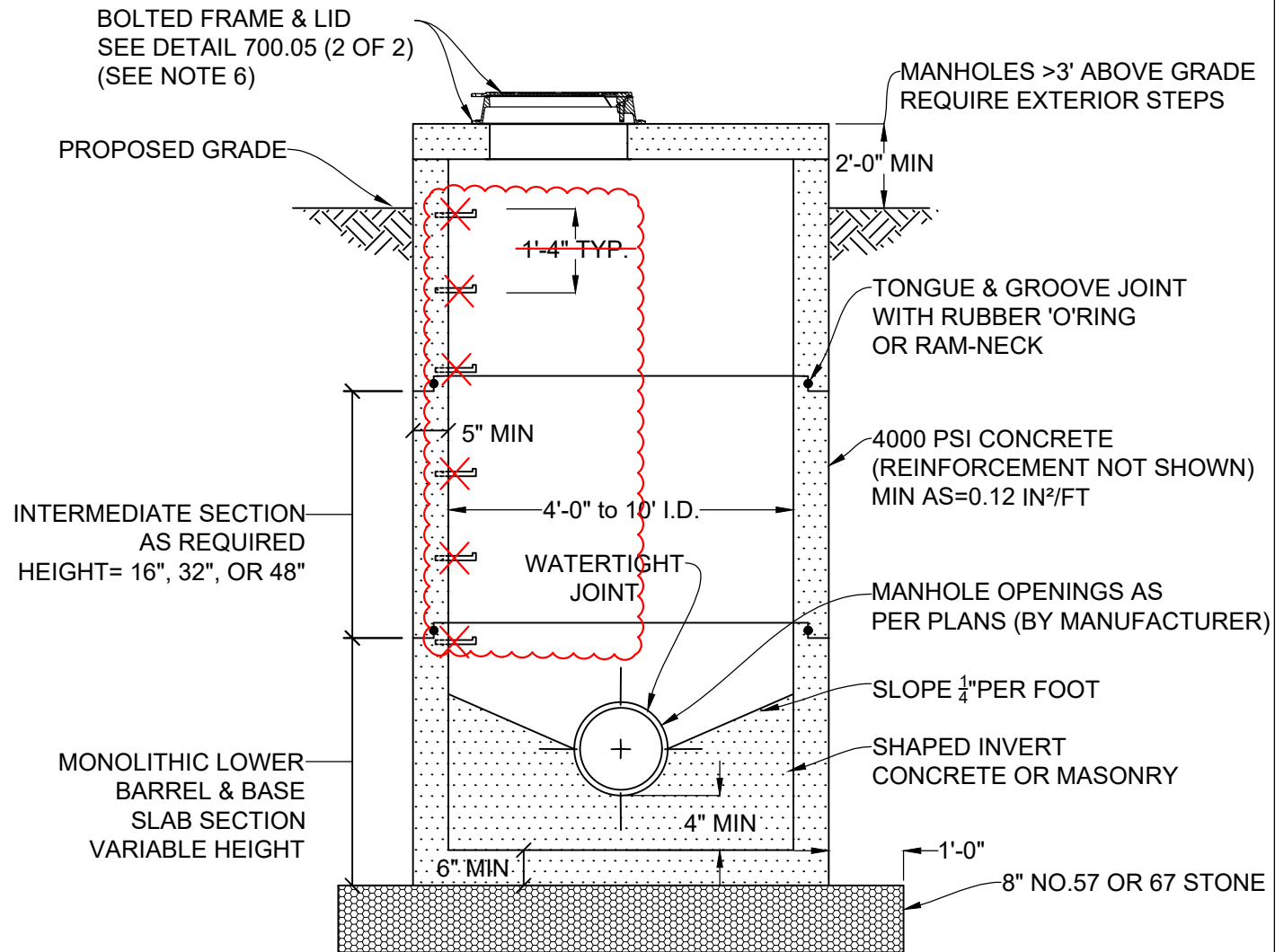
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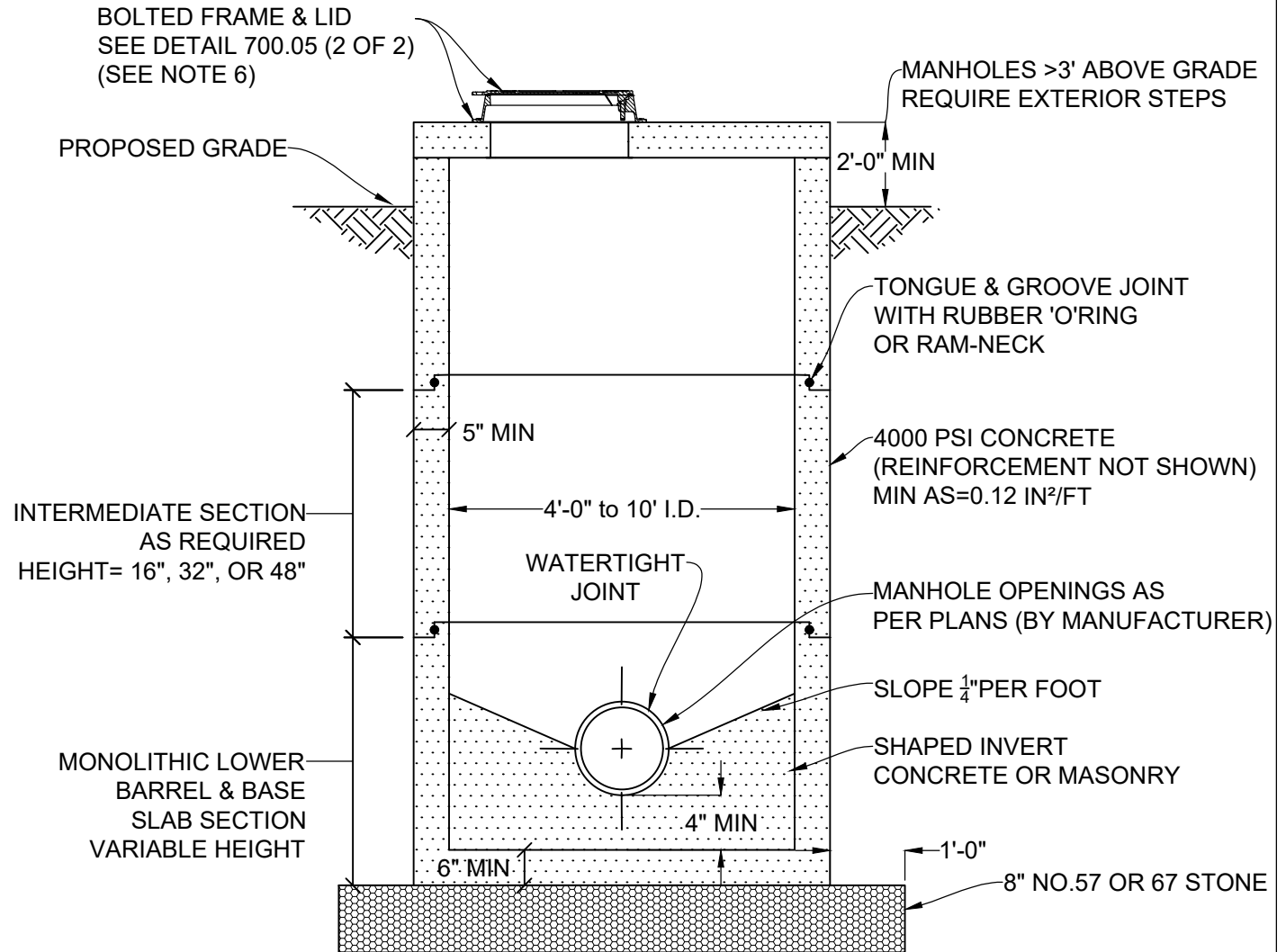
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6. SWING LIDS ONLY ALLOWED ON MANHOLES ELEVATED GREATER THAN 24" OR WATERTIGHT INSTALLATIONS.



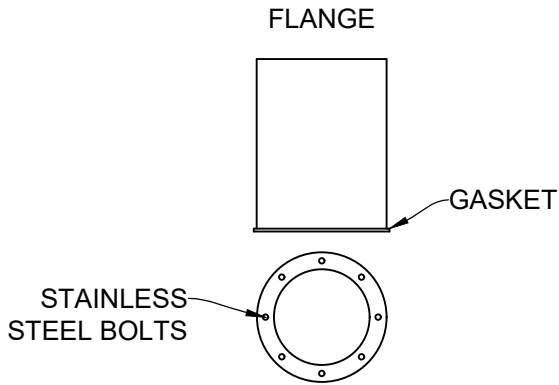
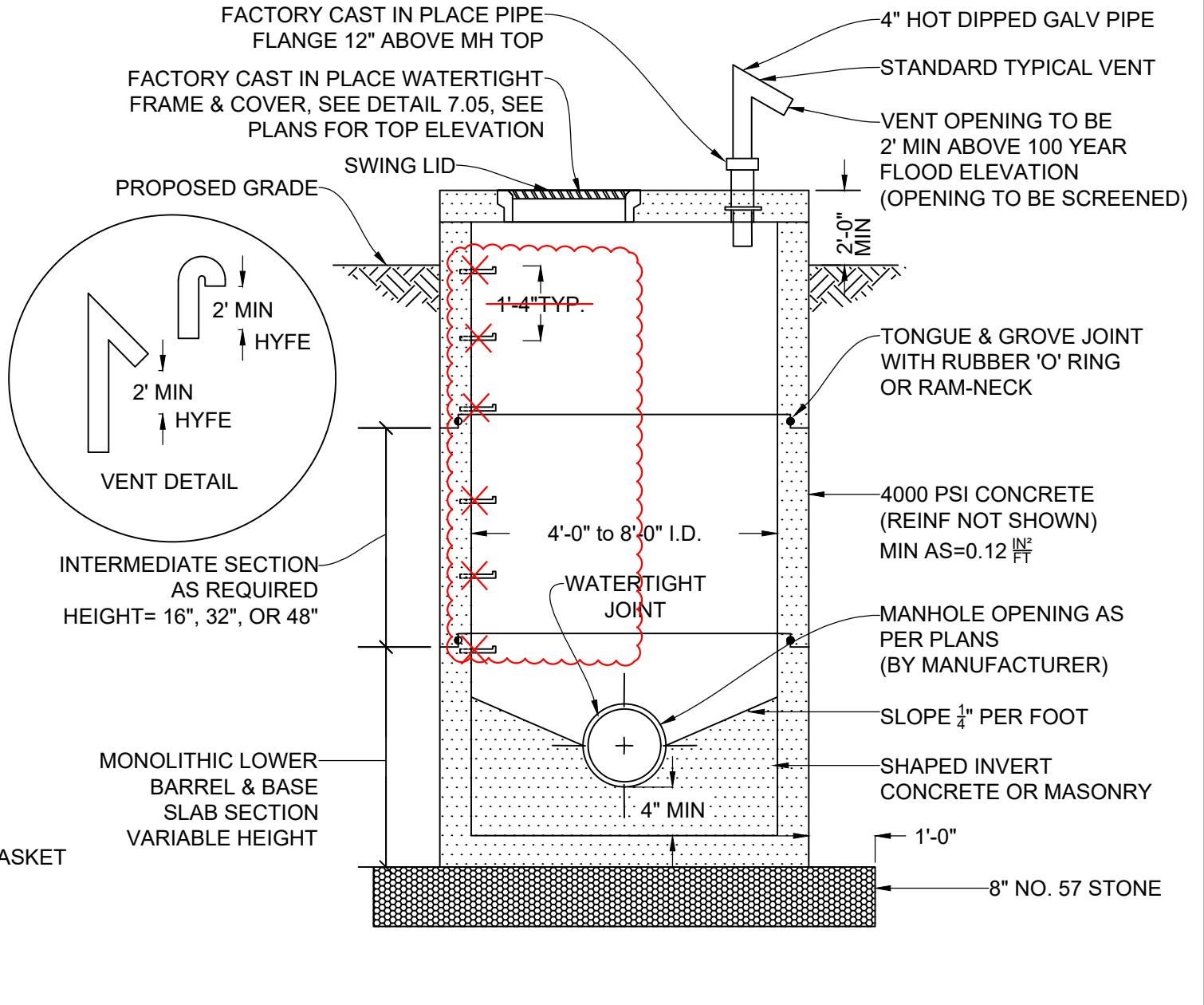
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**TOWN OF APEX
STANDARDS**

EFFECTIVE: FEBRUARY 23, 2021

PRECAST MANHOLE

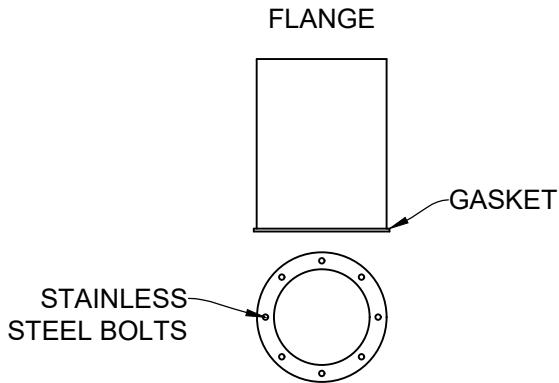
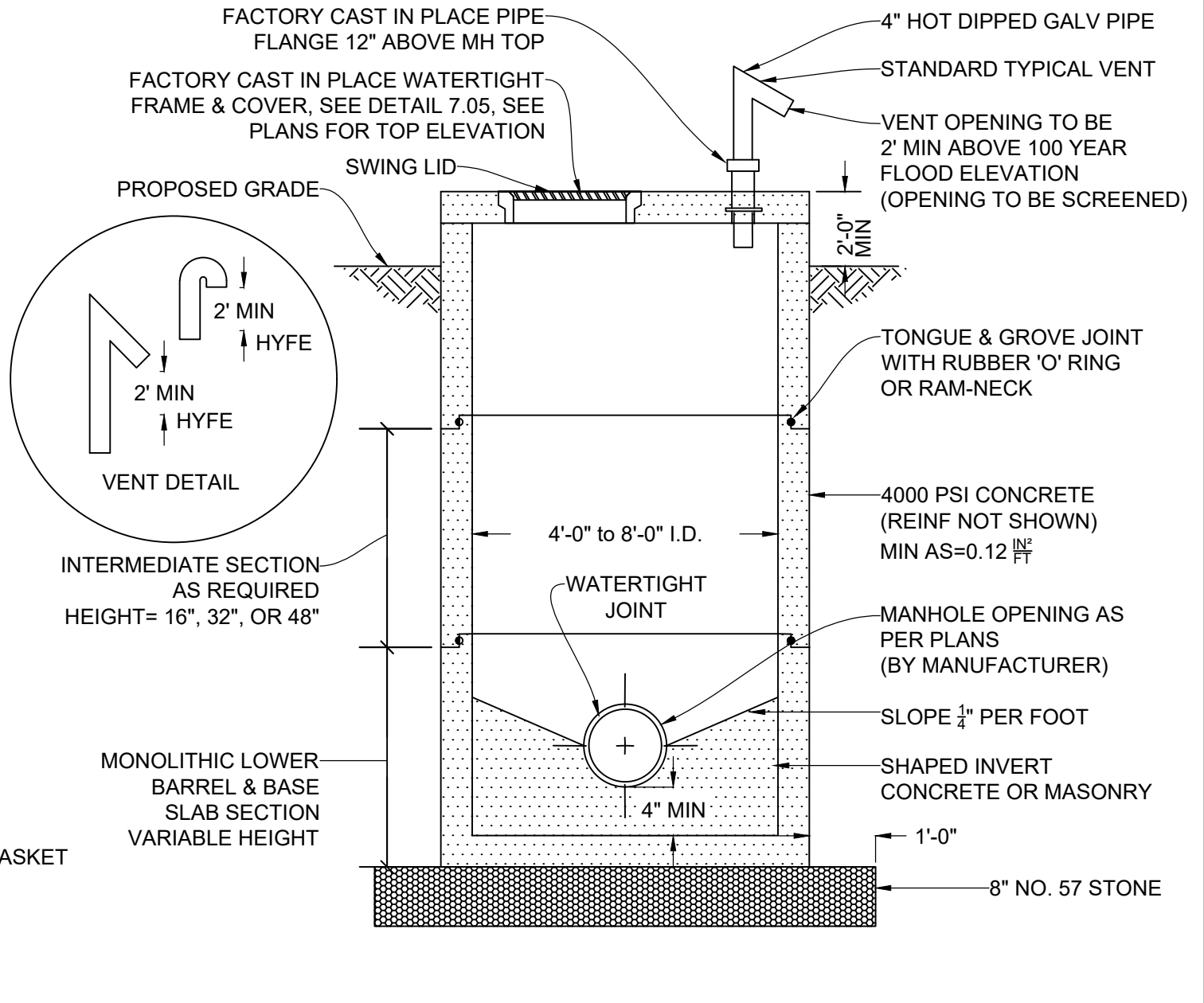
STD. NO.

700.04

SHEET 3 OF 3

NOTES:

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**TOWN OF APEX
STANDARDS**

EFFECTIVE: APRIL 12, 2022

PRECAST MANHOLE

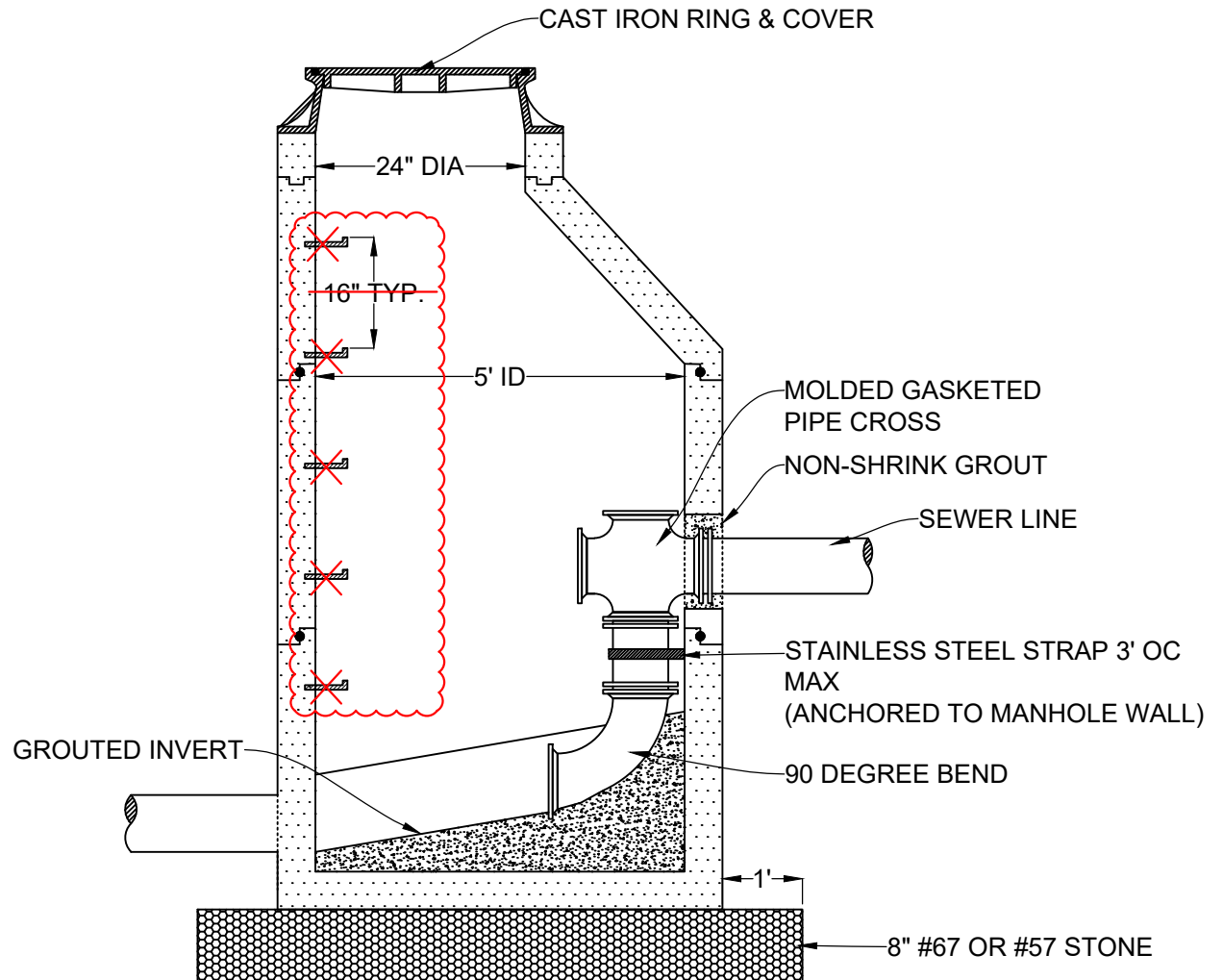
STD. NO.

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SHEET 3 OF 3

NOTES:

1. THE SEWER LINE ENTERING A DROP MANHOLE SHALL BE CONTINUOUS MATERIAL FROM THE UPSTREAM MANHOLE.
2. ONE INSIDE DROP PERMITTED WITHIN A 5' Ø MANHOLE. TWO INSIDE DROPS PERMITTED WITHIN A 6' Ø MANHOLE.
3. A DROP MANHOLE IS REQUIRED WHEN THE DIFFERENCE BETWEEN INVERTS EXCEEDS 24".
4. ALL JOINTS WITHIN THE MANHOLE SHALL BE OF THE MECHANICAL JOINT TYPE.
5. INSIDE DROP PIPE DIAMETER SHALL BE THE SAME AS THE INFLOW SEWER LINE DIAMETER.
6. STAINLESS STEEL STRAPPING SHALL BE 1" WIDE BY $\frac{1}{8}$ " THICK AND ATTACHED TO THE MANHOLE WALL WITH MASONRY ANCHORS.
7. WHERE DROP EXCEEDS 24", A SERVICE DROP CONNECTION WITH CLEANOUT SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD DETAIL.



ELEVATION

TOWN OF APEX
STANDARDS

EFFECTIVE: FEBRUARY 23, 2021

DROP MANHOLE

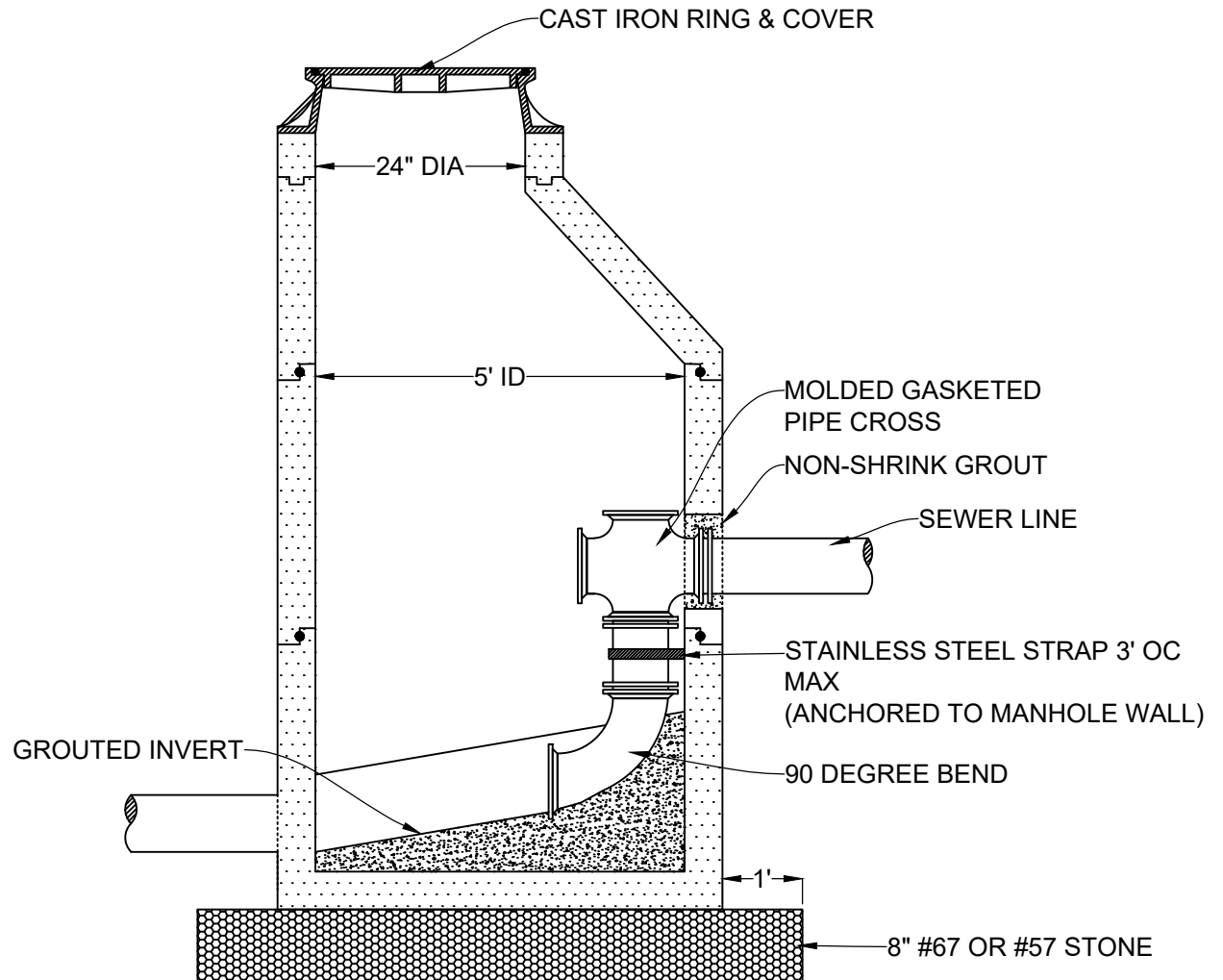
STD. NO.

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SHEET 1 OF 1

NOTES:

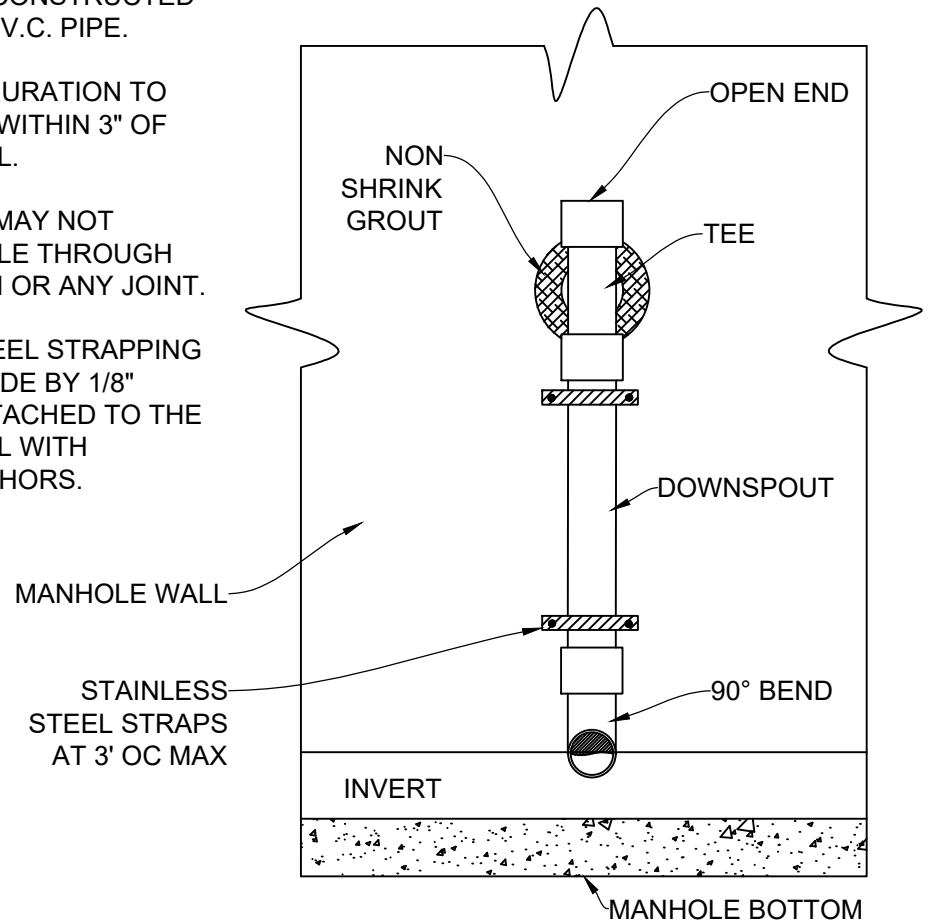
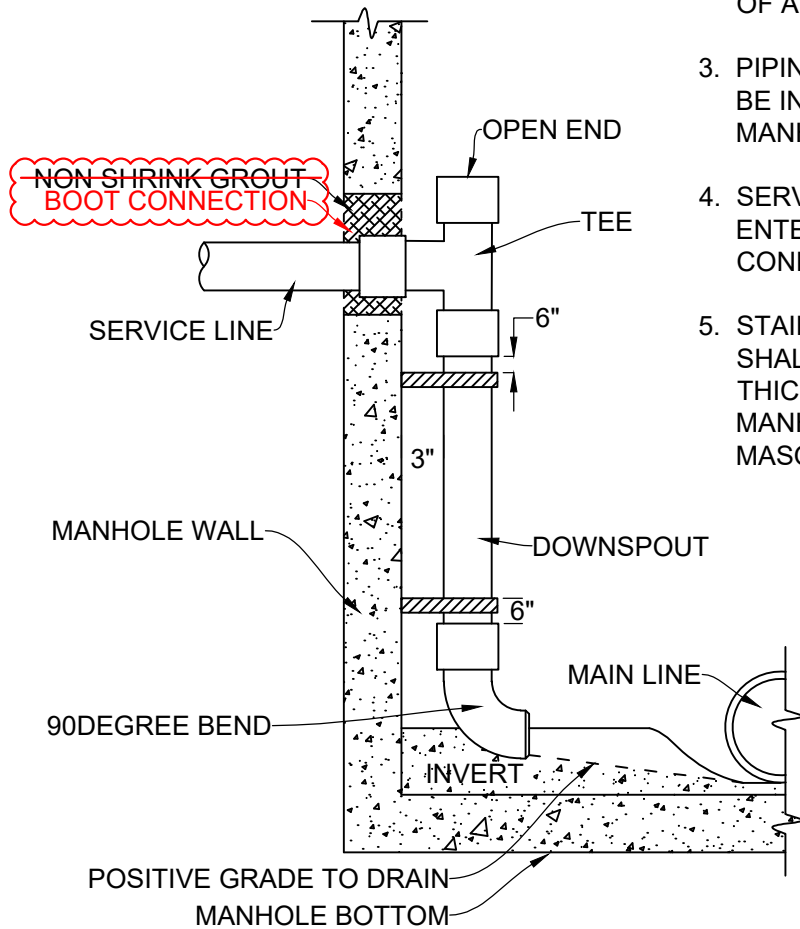
1. THE SEWER LINE ENTERING A DROP MANHOLE SHALL BE CONTINUOUS MATERIAL FROM THE UPSTREAM MANHOLE.
2. ONE INSIDE DROP PERMITTED WITHIN A 5' Ø MANHOLE. TWO INSIDE DROPS PERMITTED WITHIN A 6' Ø MANHOLE.
3. A DROP MANHOLE IS REQUIRED WHEN THE DIFFERENCE BETWEEN INVERTS EXCEEDS 24".
4. ALL JOINTS WITHIN THE MANHOLE SHALL BE OF THE MECHANICAL JOINT TYPE.
5. INSIDE DROP PIPE DIAMETER SHALL BE THE SAME AS THE INFLOW SEWER LINE DIAMETER.
6. STAINLESS STEEL STRAPPING SHALL BE 1" WIDE BY $\frac{1}{8}$ " THICK AND ATTACHED TO THE MANHOLE WALL WITH MASONRY ANCHORS.
7. WHERE DROP EXCEEDS 24", A SERVICE DROP CONNECTION WITH CLEANOUT SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD DETAIL.



ELEVATION

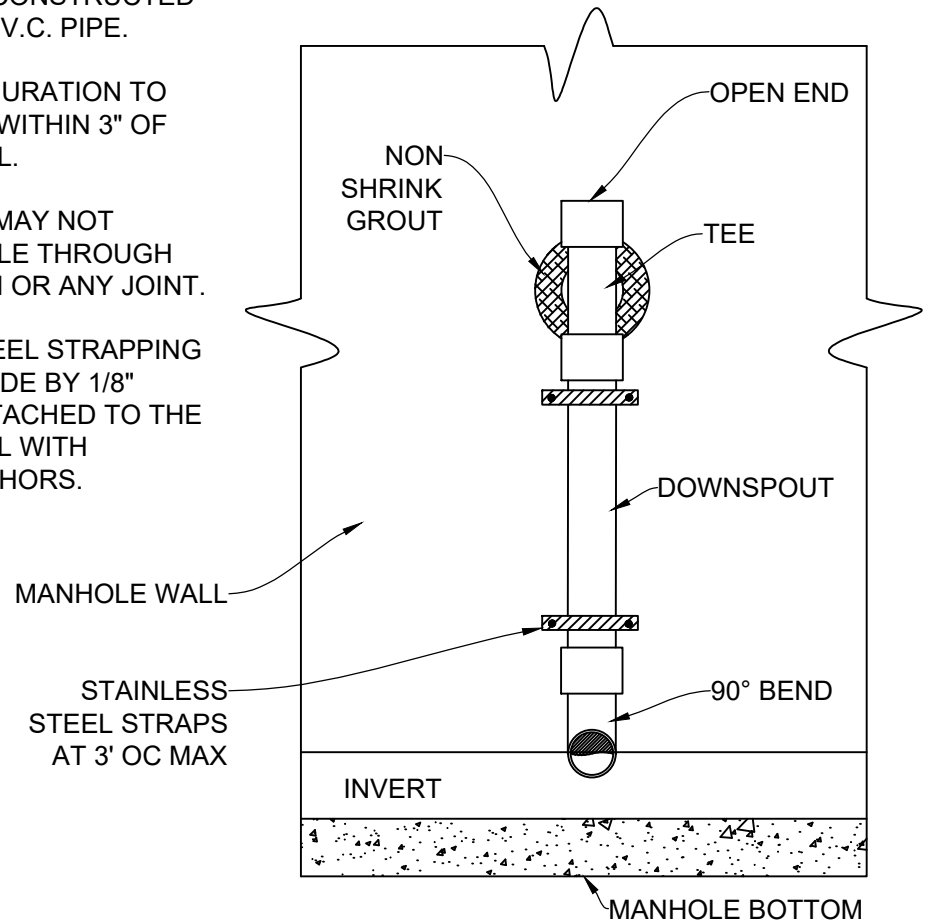
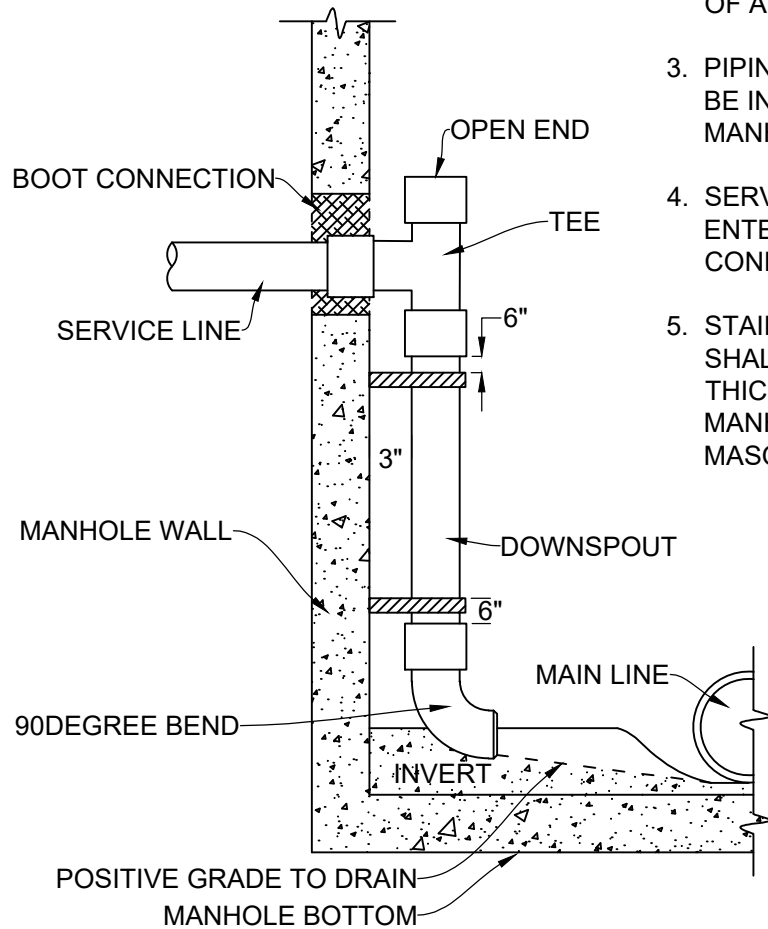
NOTES:

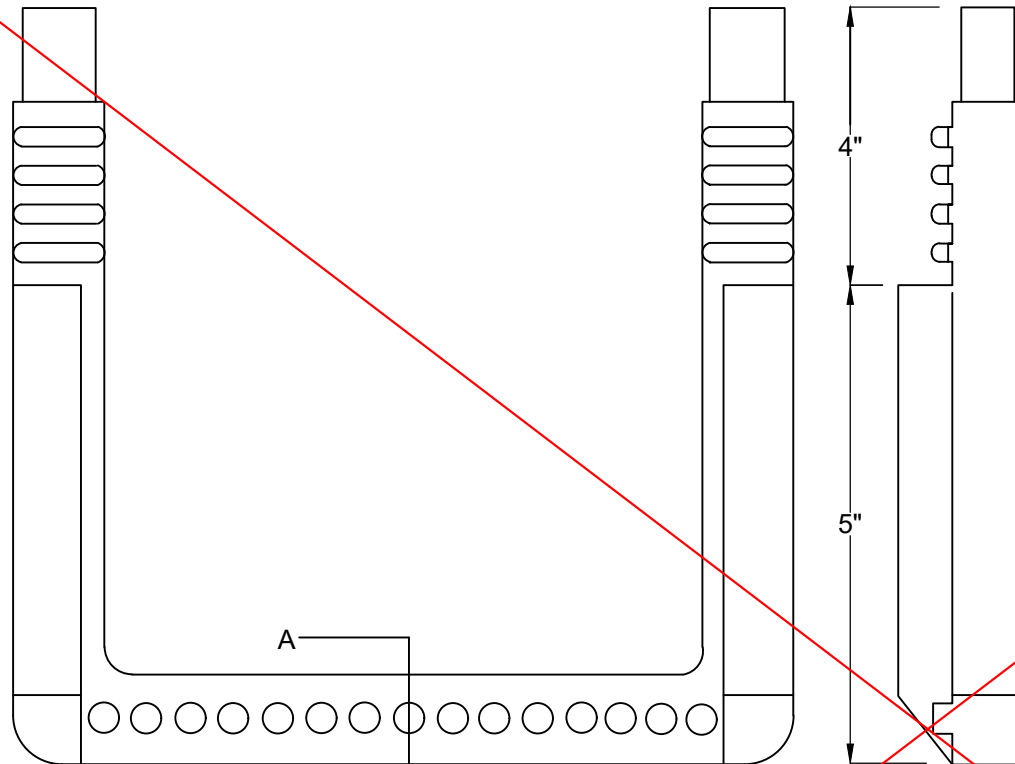
1. PIPING CONFIGURATION TO BE USED ON ALL DROPS EXCEEDING 24".
2. DROPS TO BE CONSTRUCTED OF A.B.S. OR P.V.C. PIPE.
3. PIPING CONFIGURATION TO BE INSTALLED WITHIN 3" OF MANHOLE WALL.
4. SERVICE LINE MAY NOT ENTER MANHOLE THROUGH CONE SECTION OR ANY JOINT.
5. STAINLESS STEEL STRAPPING SHALL BE 1" WIDE BY 1/8" THICK AND ATTACHED TO THE MANHOLE WALL WITH MASONRY ANCHORS.



NOTES:

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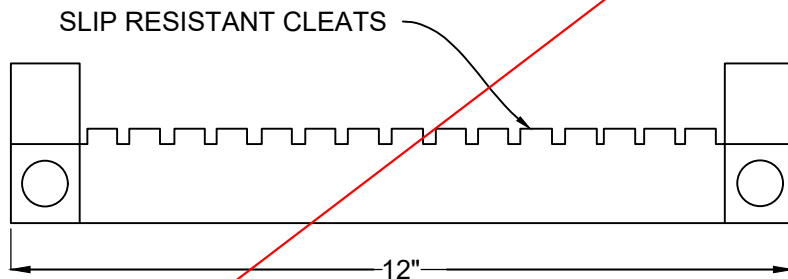


PLAN

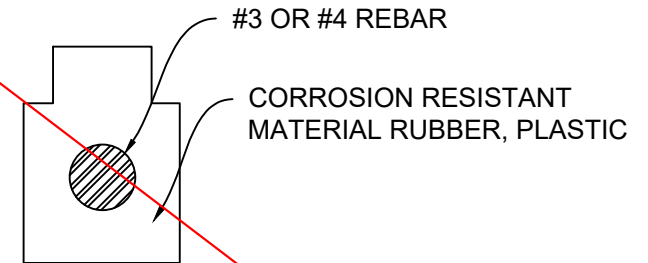
SIDE ELEVATION

NOTES:

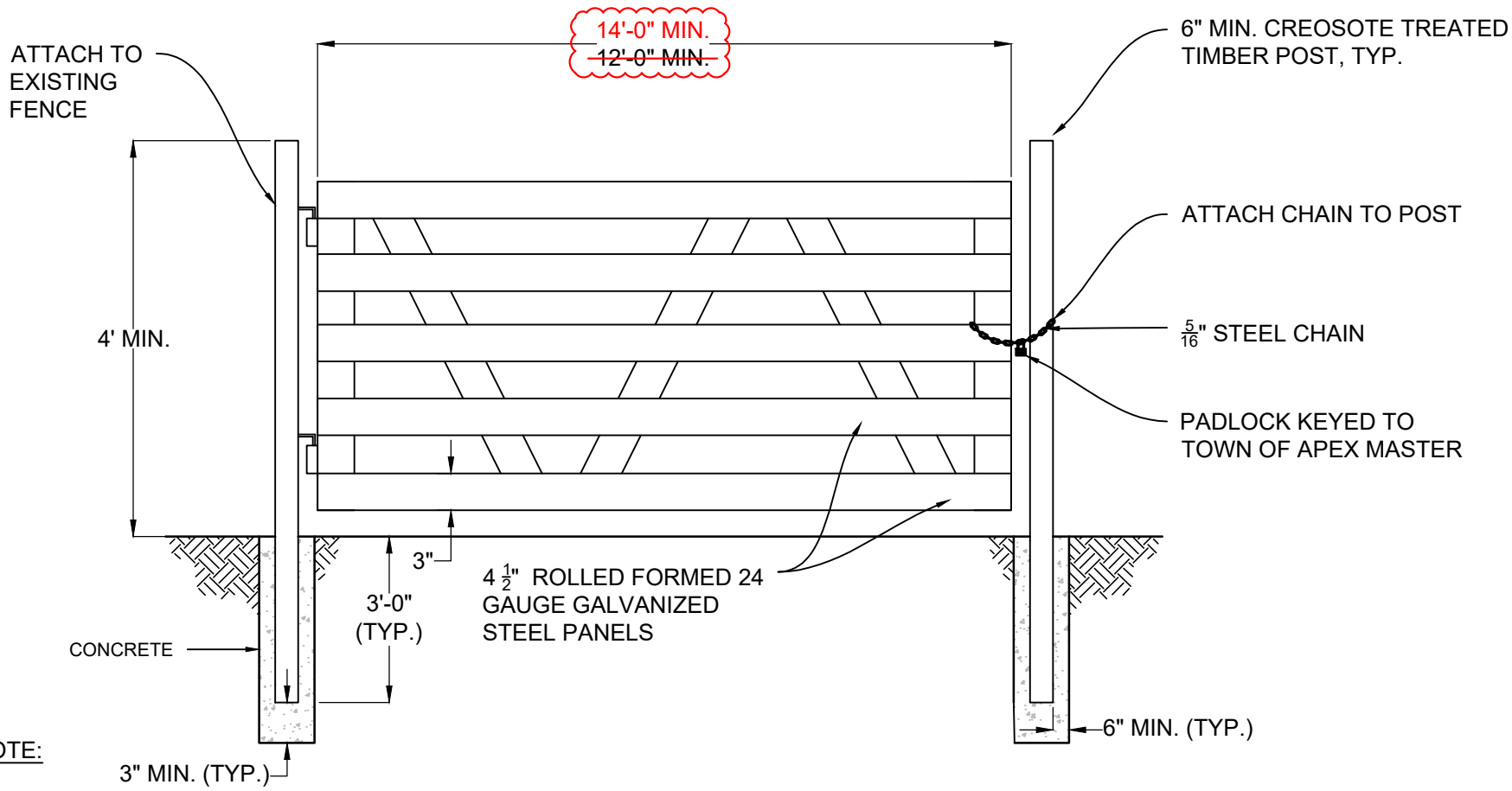
1. VERTICAL SPACING = 16 INCHES ON CENTER, ON VERTICAL WALL ONLY.
2. STEPS TO PROTRUDE MINIMUM 5 INCHES FROM FACE OF STRUCTURE WALL.
3. STEPS SHALL MEET THE REQUIREMENTS OF ASTM C478 IN ADDITION TO A HORIZONTAL PULL-OUT LOAD OF 1000 LBS. WHEN INSTALLED.
4. ALL STEPS SHALL BE VERTICALLY ALIGNED IN A STRAIGHT LINE.
5. NO STEPS LOCATED INSIDE MANHOLE CHIMNEY.
6. ONLY THE FIRST AND LAST STEP SHALL BE PROVIDED IN SANITARY SEWER MANHOLES.



ELEVATION

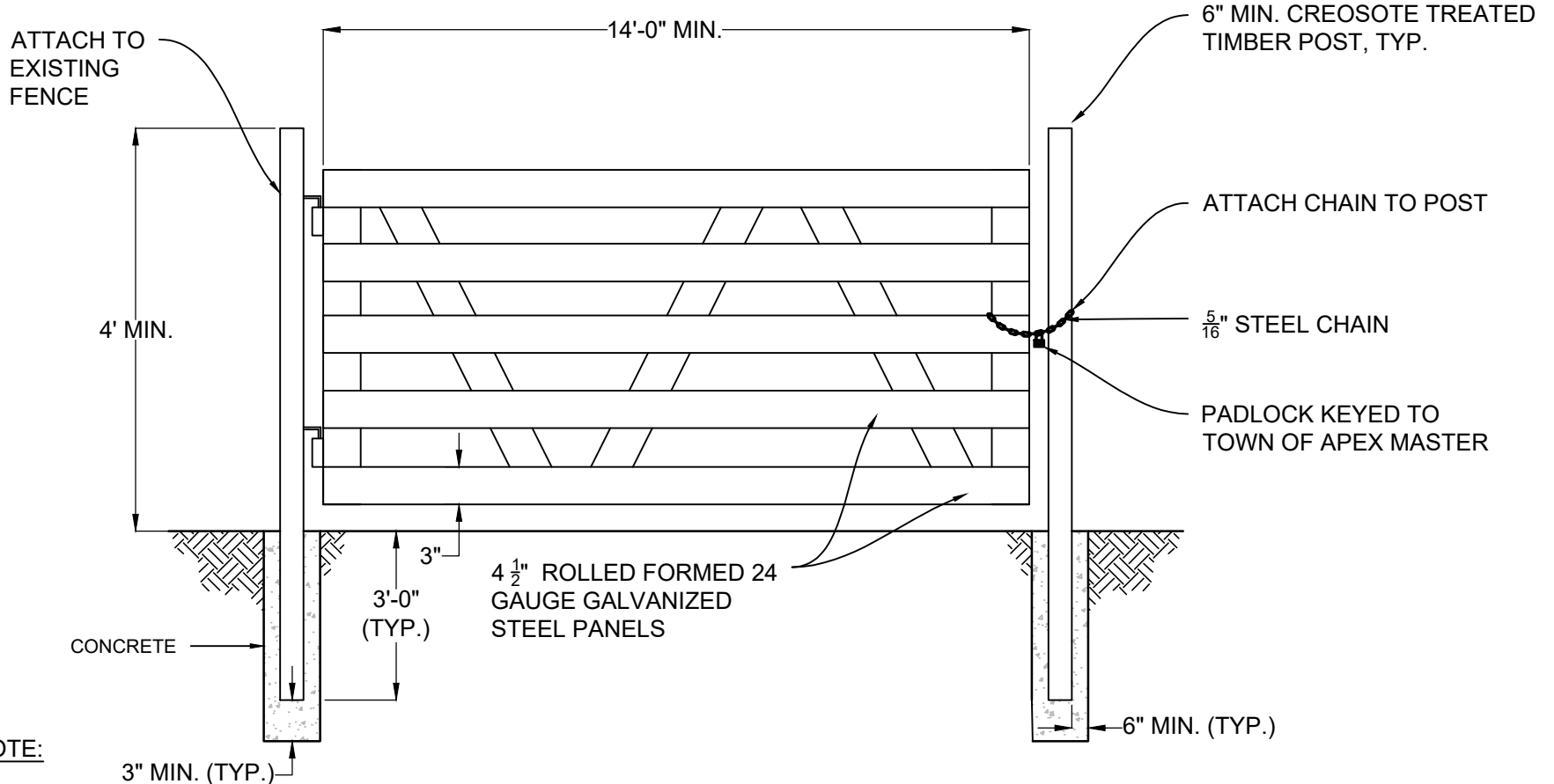


SECTION A-A



NOTE:

1. A FENCE GATE IS REQUIRED AT THE LOCATION WHERE IT CROSSES THE SANITARY SEWER EASEMENT. GATE MUST BE CENTERED ON THE SEWER PIPE. OWNER MUST APPLY FOR ENCROACHMENT AGREEMENT PRIOR TO INSTALLATION.
2. IN RESIDENTIAL AREAS, ALTERNATE FENCE GATES MATCHING EXISTING FENCES MAY BE USED AS APPROVED BY THE WATER RESOURCES DIRECTOR.
3. GATES MAY BE SINGLE OR DOUBLE PANEL AS LONG AS CENTERED ON THE PIPE.
4. FOR COMMERCIAL SITES, THE GATE WIDTH MUST BE AT LEAST 20'-0".



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**TOWN OF APEX
STANDARDS**

EFFECTIVE: APRIL 12, 2022

TYPICAL EASEMENT FENCE GATE

STD. NO.

700.20

SHEET 1 OF 1