

NOTE: CONTRACTOR TO REVIEW STREET AND INTERSECTION GRADES PER PLANS TO ASSURE POSITIVE DRAINAGE AT INTERSECTION.

NOT TO SCALE

PUBLIC WORKS STANDARD DETAILS

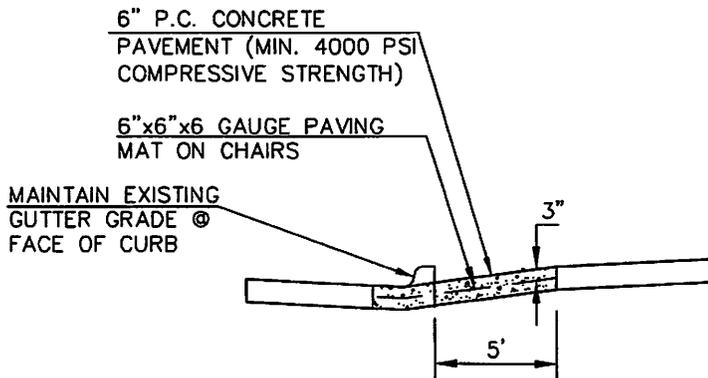
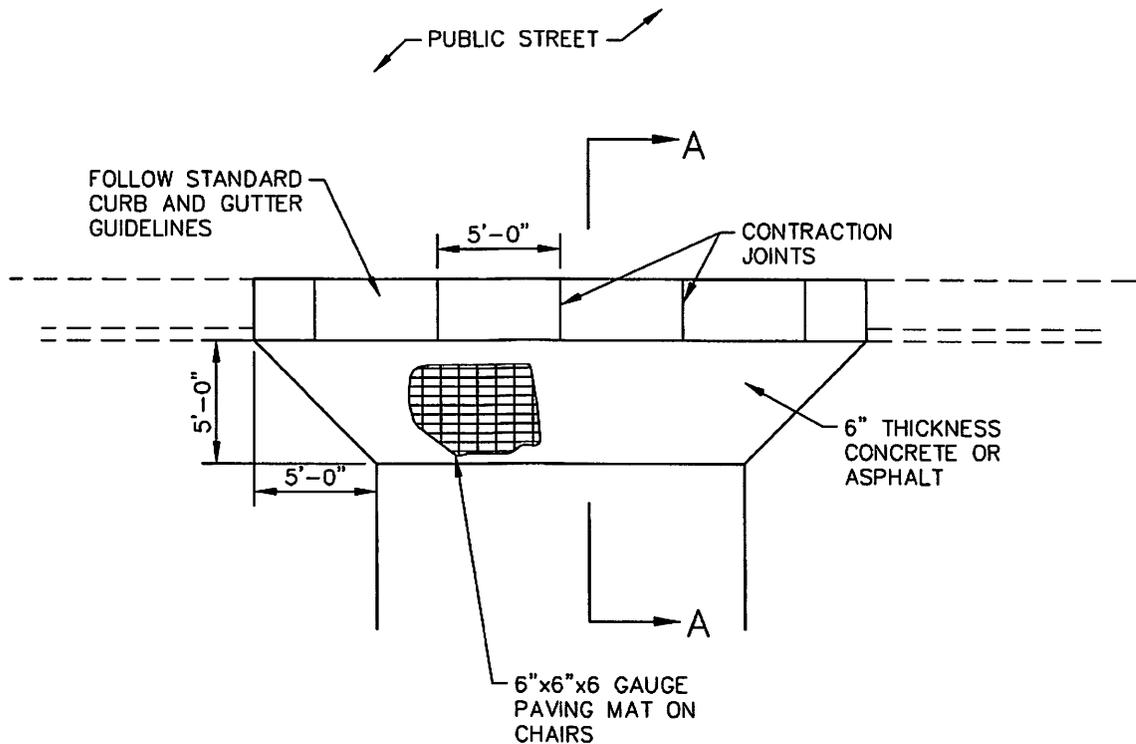
KVE PN A13\_6318



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CONCRETE INTERSECTION

DATE: MARCH 2013  
 FILE NAME: CONC INTERSECTION.DWG



SECTION A-A

NOTE: CONTRACTOR TO REVIEW STREET GRADES PER PLANS TO ASSURE POSITIVE DRAINAGE.

NOT TO SCALE

PUBLIC WORKS STANDARD DETAILS

DRIVEWAY & ALLEY ENTRANCE  
DETAIL

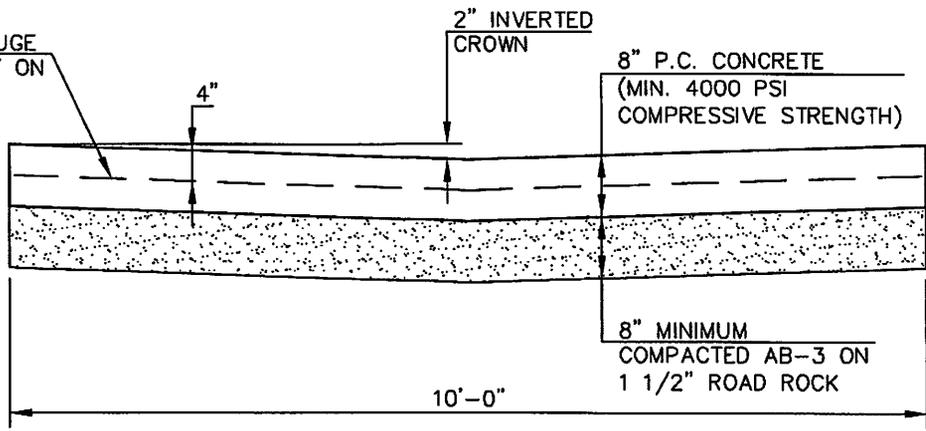
DATE: MARCH 2013  
FILE NAME: DRIVEWAY.DWG

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6"x6"x6 GAUGE  
PAVING MAT ON  
CHAIRS



NOT TO SCALE

PUBLIC WORKS STANDARD DETAILS

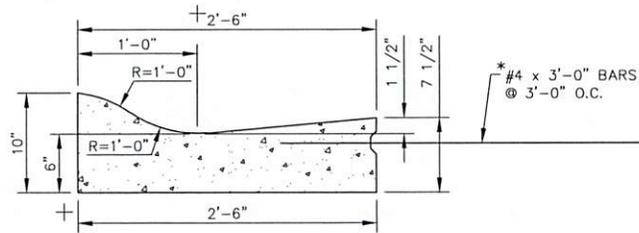
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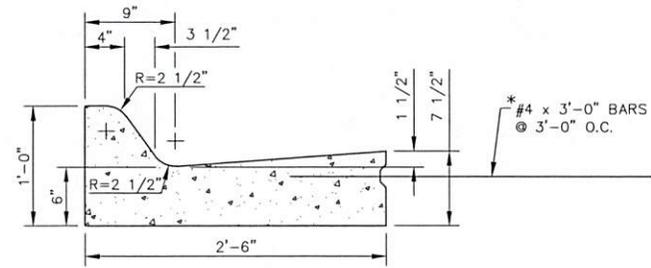
VALLEY GUTTER

DATE: MARCH 2013  
FILE NAME: VALLEY GUTTER.DWG



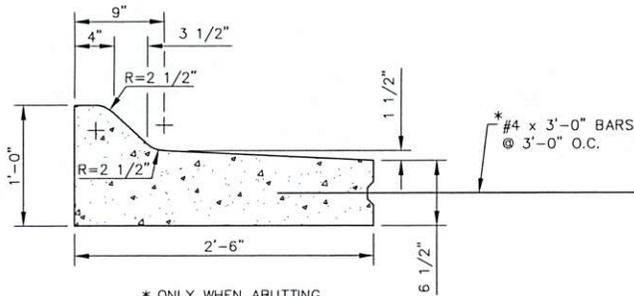
\* ONLY WHEN ABUTTING  
CONCRETE PAVEMENT

### ROLLED BACK CURB



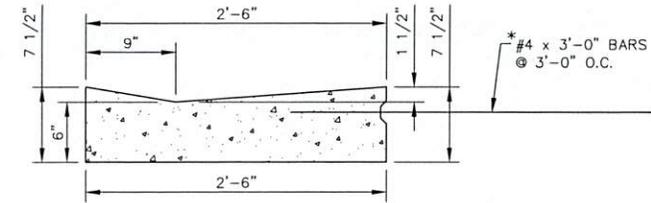
\* ONLY WHEN ABUTTING  
CONCRETE PAVEMENT

### FULL HEIGHT CURB



\* ONLY WHEN ABUTTING  
CONCRETE PAVEMENT

### DUMP CURB



\* ONLY WHEN ABUTTING  
CONCRETE PAVEMENT

### ENTRANCE CURB

(FOR FULL HEIGHT CURB)

- NOTE:
1. ALL REPLACEMENT CURB & GUTTER SHALL HAVE TWO #4 BARS EXTENDED THE LENGTH OF THE REPLACEMENT AT 9 INCHES FROM EACH EDGE.
  2. MINIMUM 4000 PSI COMPRESSIVE STRENGTH CONCRETE.

NOT TO SCALE

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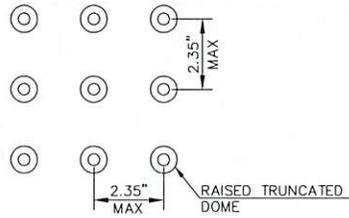
#### PUBLIC WORKS STANDARD DETAILS



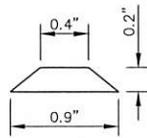
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### CURB DETAILS

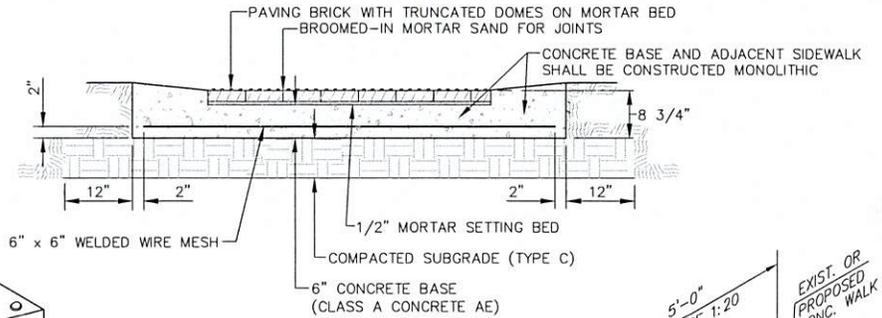
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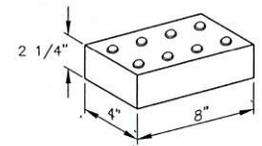
DETECTABLE WARNING SURFACE PATTERN



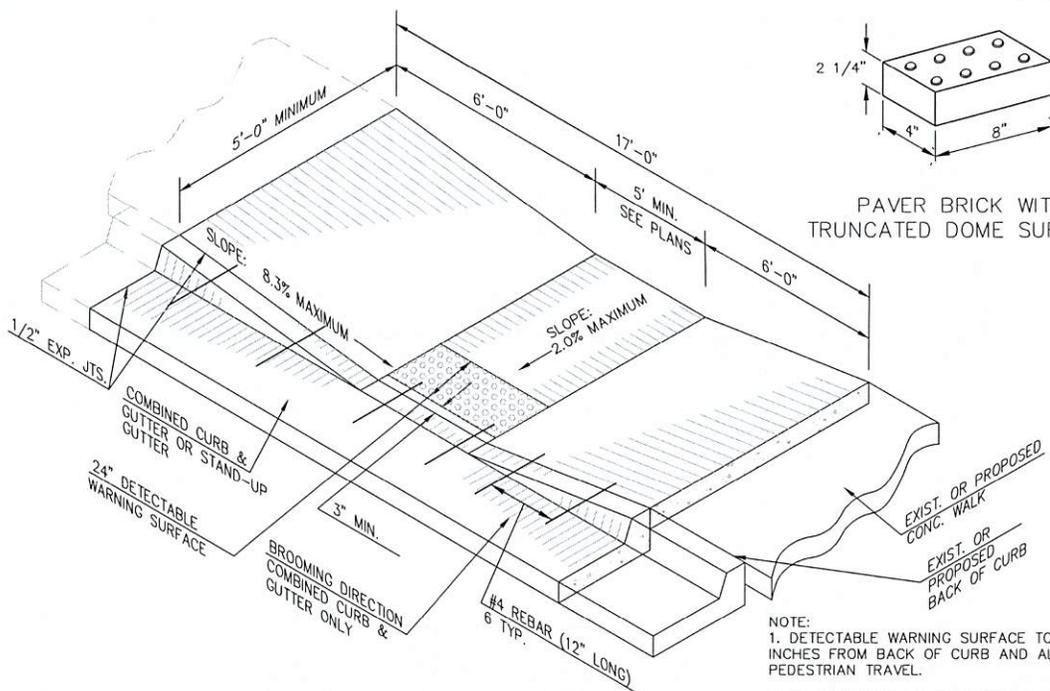
RAISED TRUNCATED DOME DETAIL



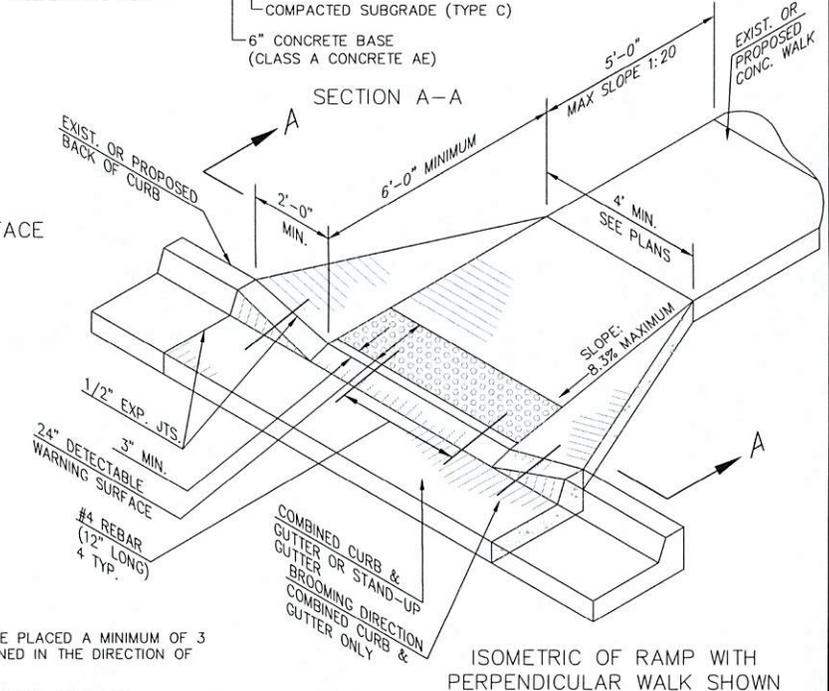
SECTION A-A



PAVER BRICK WITH TRUNCATED DOME SURFACE



ISOMETRIC OF RAMP WITH LANDING



ISOMETRIC OF RAMP WITH PERPENDICULAR WALK SHOWN

- NOTE:
1. DETECTABLE WARNING SURFACE TO BE PLACED A MINIMUM OF 3 INCHES FROM BACK OF CURB AND ALIGNED IN THE DIRECTION OF PEDESTRIAN TRAVEL.
  2. MINIMUM 4000 PSI COMPRESSIVE STRENGTH CONCRETE.

NOT TO SCALE

PUBLIC WORKS STANDARD DETAILS



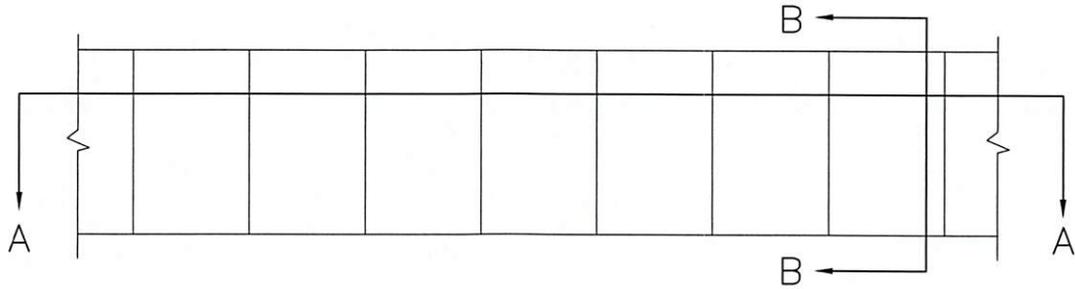
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SIDEWALK RAMPS

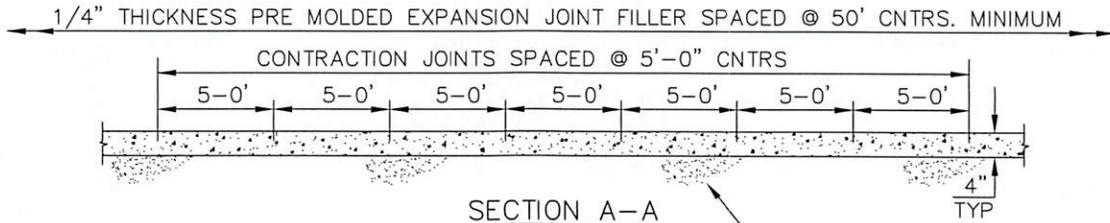
DATE: MARCH 2013  
 FILE NAME: SIDEWALK RAMPS.DWG

\* DETECTABLE WARNING SURFACE ON RAMPS SHALL BE SUBJECT TO FEDERAL ADA CURRENT COMPLIANCE.

REV. #	REV. DATE	REV. BY	REVISION DESCRIPTION
1	7/15/15	JT	REVISED PER CITY REQUEST



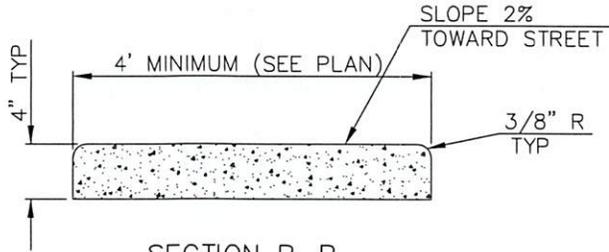
PLAN VIEW



SECTION A-A

BASE COURSE TO BE COMPACTED TO 90% STD. PROCTOR (TYP)

NOTE: WHERE SIDEWALKS ARE INTEGRAL WITH DRIVE ENTRANCES INCREASE DEPTH TO 6" AND PROVIDE REINFORCING USING 6"x6"x6 GAUGE PAVING MAT MINIMUM.



SECTION B-B

NOTE: CONCRETE SHALL BE CLASS A WITH  $f'_c = 4000$  PSI.

NOT TO SCALE

1	7/15/15	JT	REVISED PER CITY REQUEST
REV. #	REV. DATE	REV. BY	REVISION DESCRIPTION

PUBLIC WORKS STANDARD DETAILS

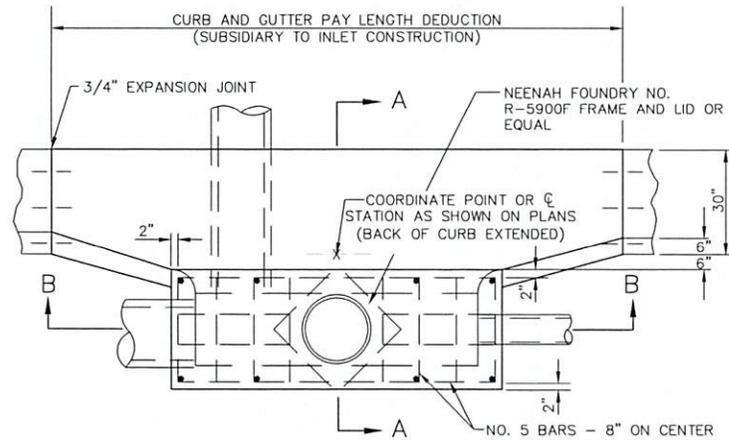


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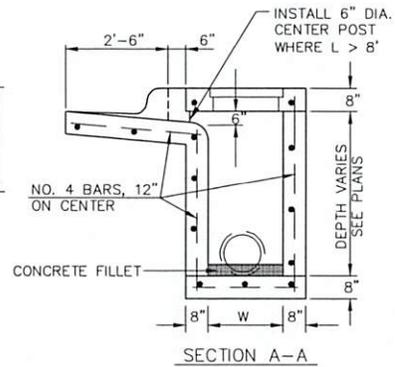
CONCRETE SIDEWALK

DATE: MARCH 2013  
 FILE NAME: CONC SIDEWALK.DWG

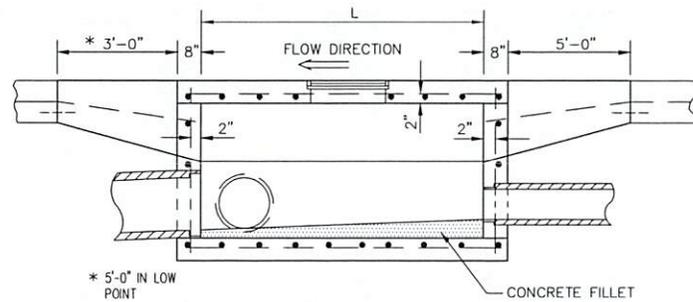
KVE PN A13\_6318



TOP VIEW



SECTION A-A



SECTION B-B

NOTES:

1. USE 4000 P.S.I. CONCRETE IN SIDE WALL AND SLAB.
2. PROVIDE 3/4" ROUNDED EDGE ON ALL EXPOSED CORNERS.
3. WHERE INLETS ARE SET IN CURVES, FORM FRONT WALL TO CONFORM TO CURVE.
4. PRE-CAST UNITS MAY BE SUBSTITUTED WITH THE ENGINEERS APPROVAL. SHOP DRAWINGS AND DESIGN CALCULATIONS MUST BE SUBMITTED.
5. THE TOP OF THE INLET SHALL BE SLOPED TO FIT STREET, SIDEWALK, OR FINISHED GROUND ELEVATIONS

REV. #	REV. DATE	REV. BY	REVISION DESCRIPTION
1	7/15/19	JT	REVISED PER CITY REQUEST

NOT TO SCALE

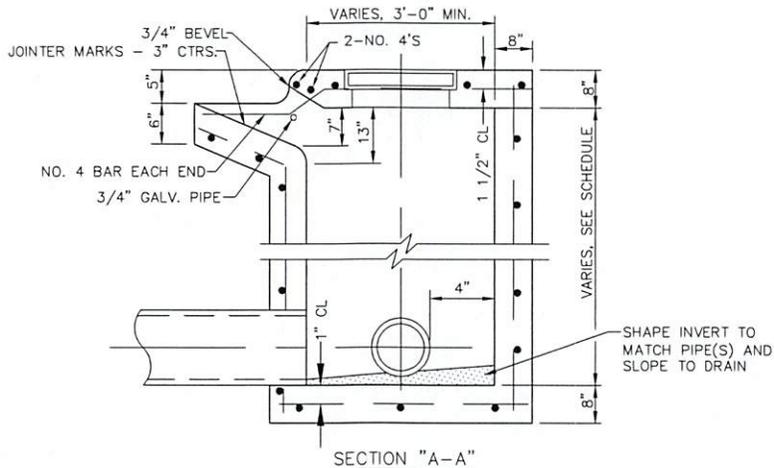
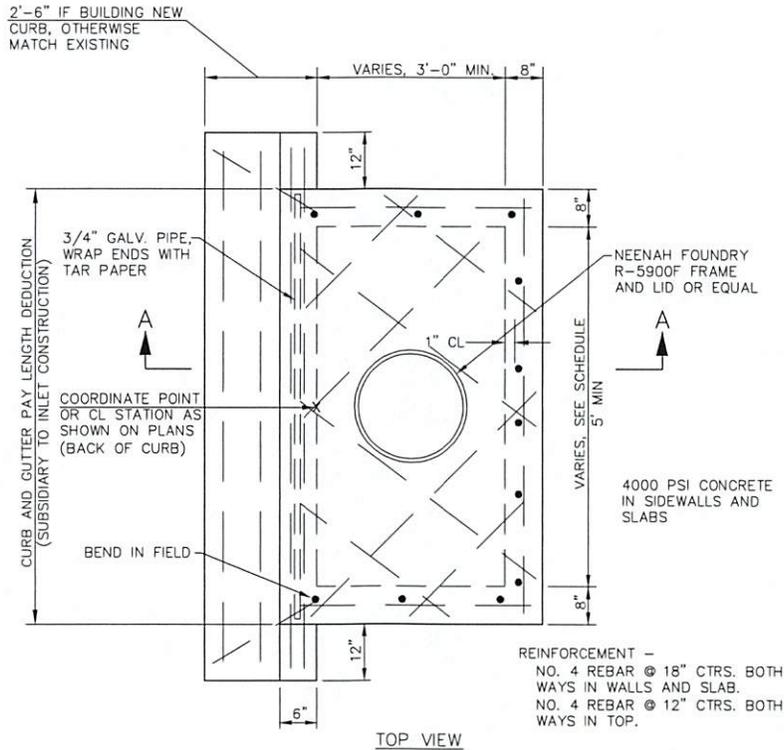
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SETBACK CURB INLET

DATE: MARCH 2013  
 FILE NAME: CURB INLET SETBACK.DWG



- NOTES:
1. USE 4000 P.S.I. CONCRETE IN SIDE WALL AND SLAB.
  2. PROVIDE 3/4" ROUNDED EDGE ON ALL EXPOSED CORNERS.
  3. WHERE INLETS ARE SET IN CURVES, FORM FRONT WALL TO CONFORM TO CURVE.
  4. PRE-CAST UNITS MAY BE SUBSTITUTED WITH THE ENGINEERS APPROVAL. SHOP DRAWINGS AND DESIGN CALCULATIONS MUST BE SUBMITTED.
  5. THE TOP OF THE INLET SHALL BE SLOPED TO FIT STREET, SIDEWALK, OR FINISHED GROUND ELEVATIONS

NOT TO SCALE

1	7/15/15	JT	REVISED PER CITY REQUEST
REV. #	REV. DATE	REV. BY	REVISION DESCRIPTION

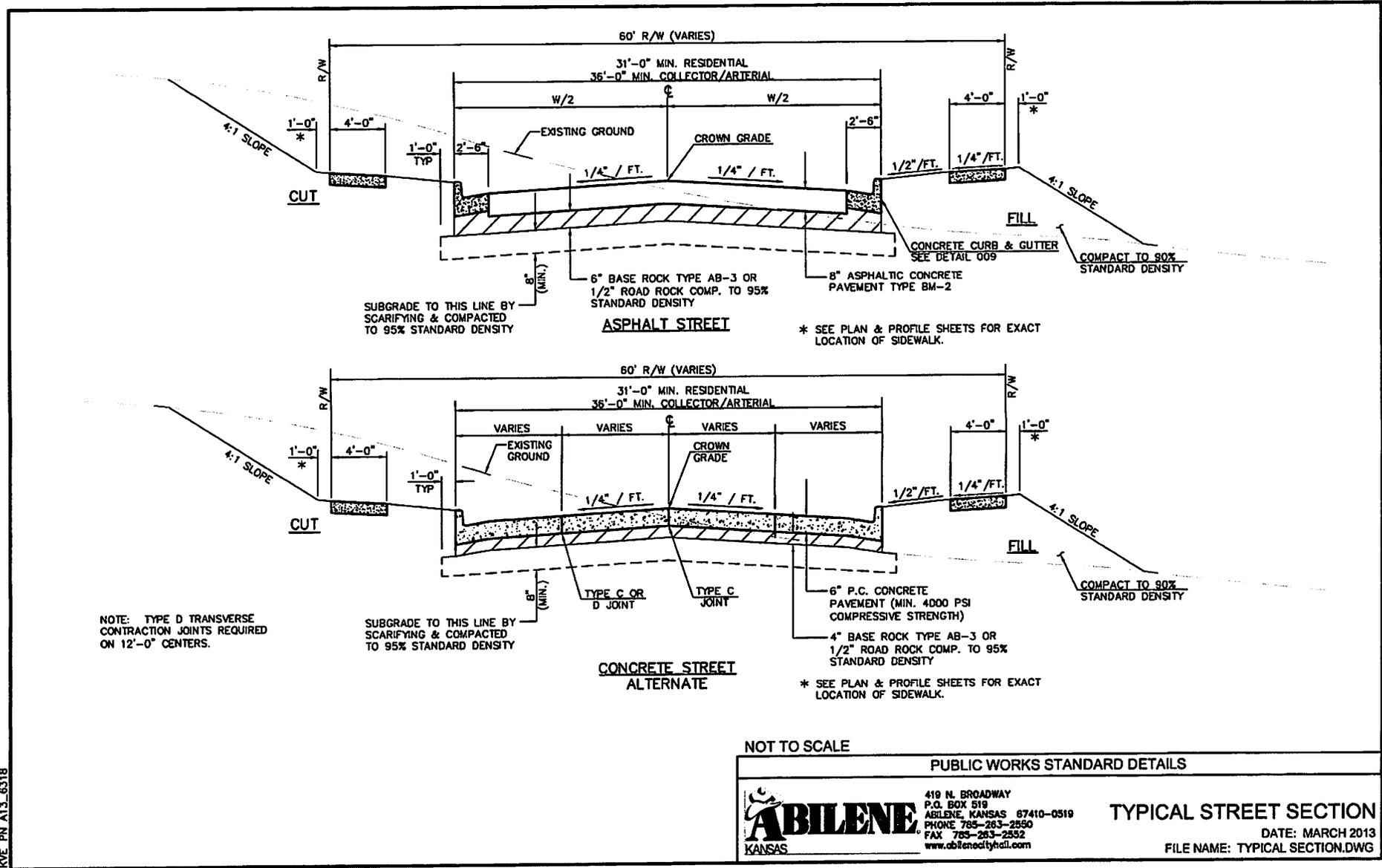
PUBLIC WORKS STANDARD DETAILS

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KANSAS

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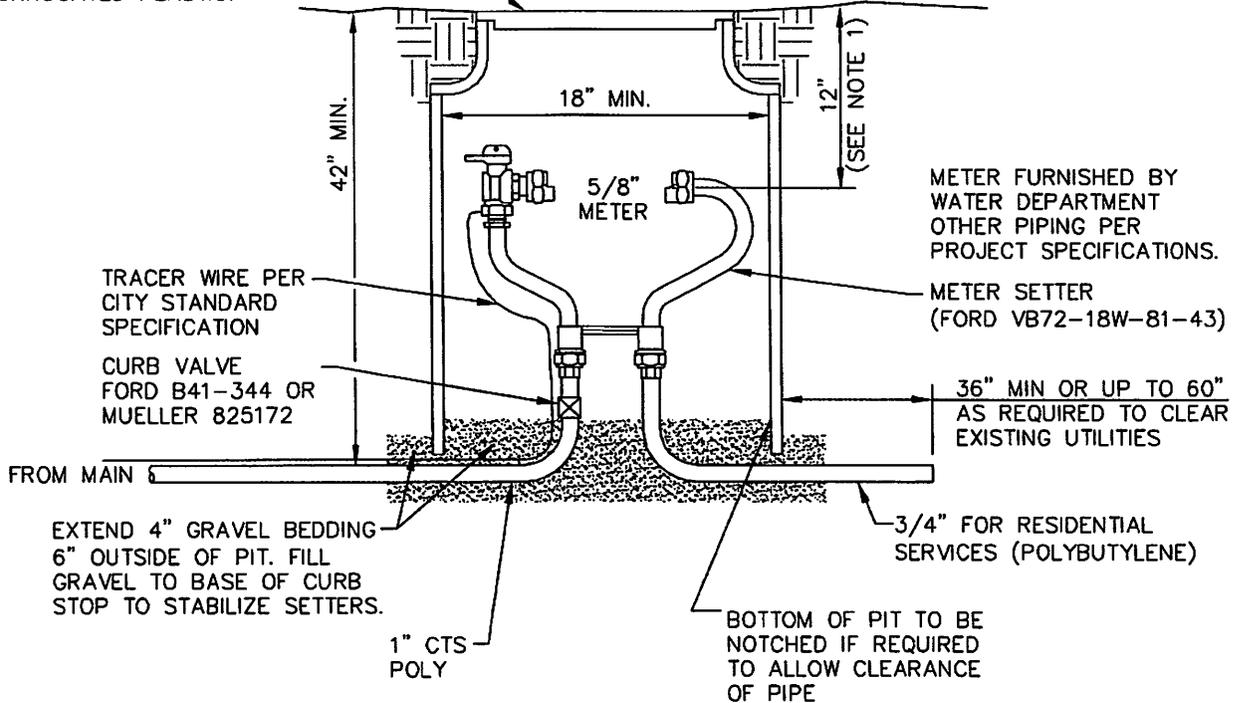
**CURB INLET**  
 DATE: MARCH 2013  
 FILE NAME: CURB INLET.DWG

KVE PN A13\_6318



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POLYMER METER LID & RING.  
TOP OF LID SET AT OR 1 INCH  
ABOVE FINISHED GRADE.  
METER BARREL TO BE APPROVED  
CORRUGATED PLASTIC.



GENERAL RULES

1. CLEARANCE FROM FINISHED GRADE TO CENTERLINE OF METER REGISTER.
2. 90% COMPACTION IS REQUIRED UNDER AND AROUND ALL METER PITS.

NOT TO SCALE

PUBLIC WORKS STANDARD DETAILS

DOMESTIC WATER METER SET  
FOR 3/4" & 1" SERVICE LINES



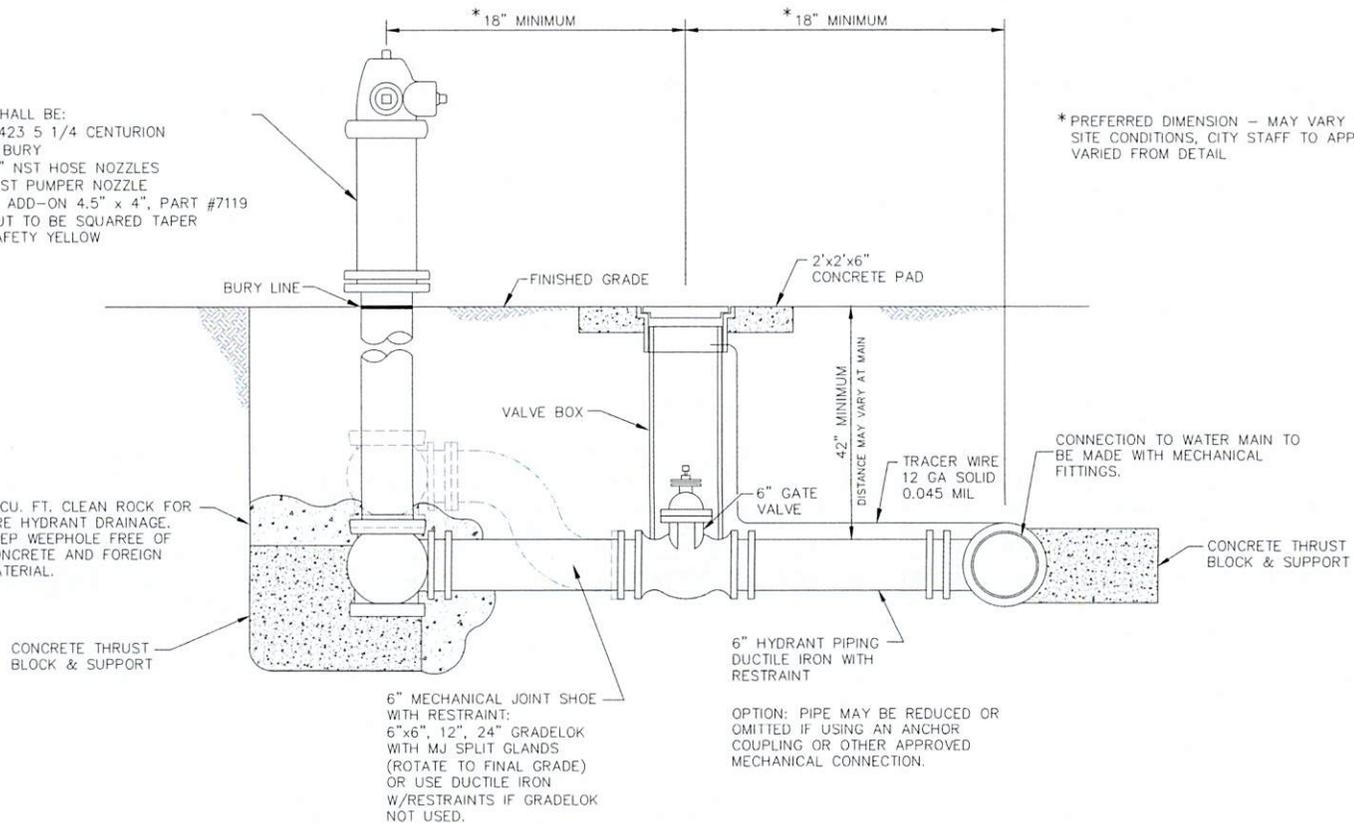
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DATE: MARCH 2013  
FILE NAME: WATER METER.DWG

KVE PN A13\_6318

HYDRANT SHALL BE:  
 MUELLER A423 5 1/4 CENTURION  
 MIN. 4'-6" BURY  
 2 - 2 1/2" NST HOSE NOZZLES  
 1 - 4.5" NST PUMPER NOZZLE  
 1 - STORZ ADD-ON 4.5" x 4", PART #7119  
 1" OPEN NUT TO BE SQUARED TAPER  
 PAINTED SAFETY YELLOW

\*PREFERRED DIMENSION - MAY VARY DUE TO  
 SITE CONDITIONS, CITY STAFF TO APPROVE IF  
 VARIED FROM DETAIL



4 CU. FT. CLEAN ROCK FOR  
 FIRE HYDRANT DRAINAGE.  
 KEEP WEEPHOLE FREE OF  
 CONCRETE AND FOREIGN  
 MATERIAL.

CONCRETE THRUST  
 BLOCK & SUPPORT

NOTE: CONTRACTOR TO TAKE CARE IN PLACING FIRE HYDRANT AT PROPER ELEVATIONS. ANY ADJUSTMENTS OR FITTINGS REQUIRED TO PLACE FIRE HYDRANT AT PROPER ELEVATION WILL BE AT THE CONTRACTOR'S EXPENSE INCLUDING INSTALLATION ON EXISTING MAINS. WHEN FIRE HYDRANT IS LOCATED WITHIN 4'-6" OF WATER MAIN, THERE WILL BE NO PAYMENT FOR WATER MAIN TO HYDRANT. UP TO 4'-6" IS PAID FOR UNDER FIRE HYDRANT WITH GATE VALVE BID ITEM.

NOT TO SCALE

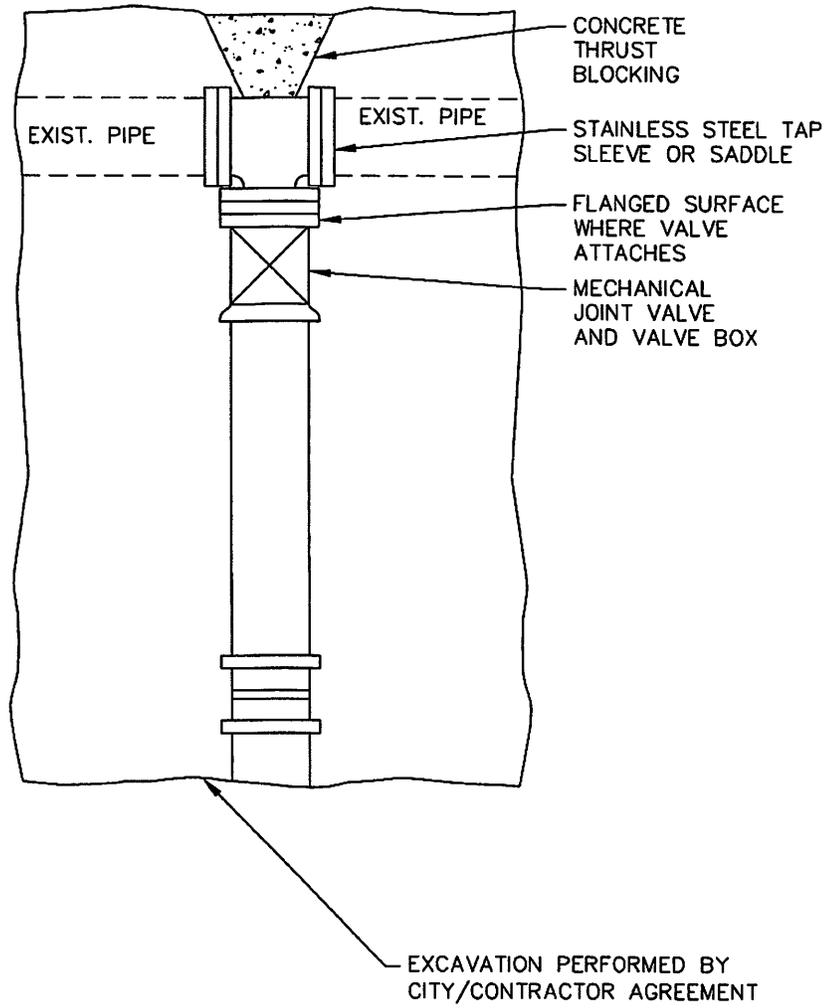
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FIRE HYDRANT ASSEMBLY

DATE: SEPT 2013  
 FILE NAME: FIRE HYDRANT.DWG



**GENERAL RULES**  
 1. BEFORE PERFORMING TAP, AIR TEST TAPPING SLEEVE AND VALVE TO 150 LBS. FOR 2 HOURS.

NOT TO SCALE

**PUBLIC WORKS STANDARD DETAILS**

**SIDE-TAPPING WATER MAIN  
 DETAIL**

DATE: MARCH 2013  
 FILE NAME: WATER TAP.DWG

KVE PN A13\_6318



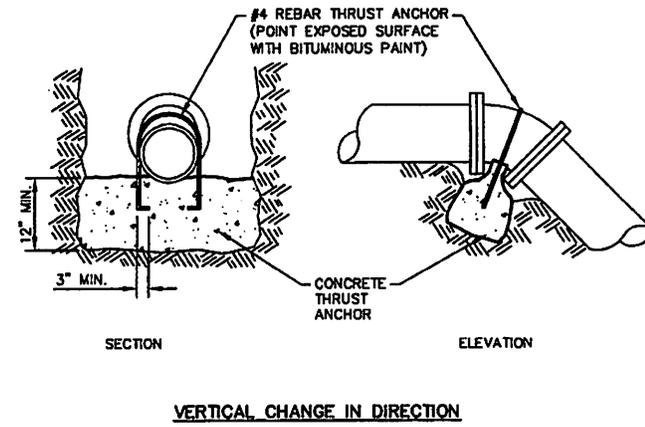
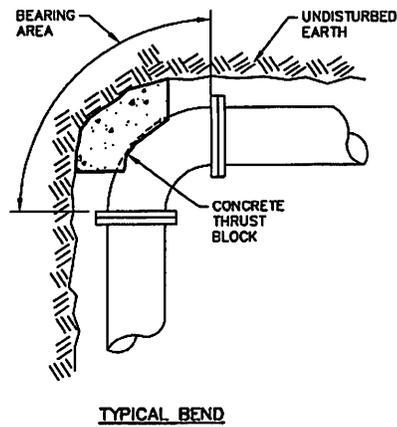
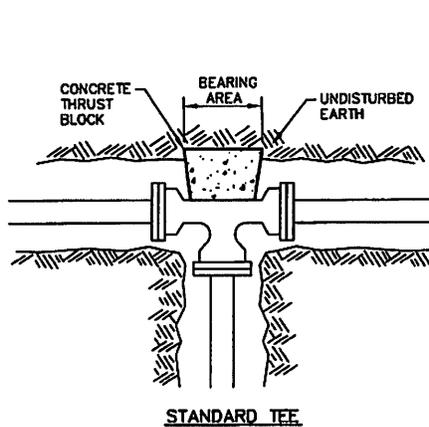
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THRUST BLOCK BEARING AREA					
PIPE SIZE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND	TEE
4"	2 SQ. FT.	1 SQ. FT.	1 SQ. FT.	1 SQ. FT.	1 SQ. FT.
6"	3 SQ. FT.	2 SQ. FT.	1 SQ. FT.	1 SQ. FT.	2 SQ. FT.
8"	5 SQ. FT.	3 SQ. FT.	2 SQ. FT.	1 SQ. FT.	3 SQ. FT.
10"	7 SQ. FT.	4 SQ. FT.	2 SQ. FT.	2 SQ. FT.	5 SQ. FT.
12"	12 SQ. FT.	7 SQ. FT.	4 SQ. FT.	3 SQ. FT.	8 SQ. FT.

VERTICAL CHANGE ANCHORS								
PIPE SIZE	90° BEND		45° BEND		22 1/2° BEND		11 1/4° BEND	
	CONCRETE NO.		CONCRETE NO.		CONCRETE NO.		CONCRETE NO.	
	C.Y.	BAR	C.Y.	BAR	C.Y.	BAR	C.Y.	BAR
6"	2.0	2	1.0	1	1.0	1	1.0	1
8"	3.5	4	2.0	2	1.0	1	1.0	1
10"	5.5	6	3.0	3	1.5	2	1.0	1
12"	8.0	8	4.5	5	2.5	3	2.0	2

BLOCKING OF TEES IS TO BE PLACED OPPOSITE THE BRANCH & AREA IS BASED ON BRANCH SIZE. ALL MATERIAL, LABOR, AND EQUIPMENT REQUIRED TO CONSTRUCT CONCRETE THRUST BLOCKS SHALL BE CONSIDERED SUBSIDIARY TO OTHER ITEMS OF WORK.

THE CONCRETE AND STEEL REQUIRED FOR ALL FITTINGS NOT LISTED SHALL BE THE SAME AMOUNT AS REQUIRED FOR THE 22 1/2° BENDS. CONCRETE AND STEEL ARE SUBSIDIARY TO OTHER ITEMS OF WORK. THE SPACING FOR MULTIPLE REBAR ANCHORS SHALL BE 2" C-C.



NOT TO SCALE

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**CONCRETE THRUST BLOCK**

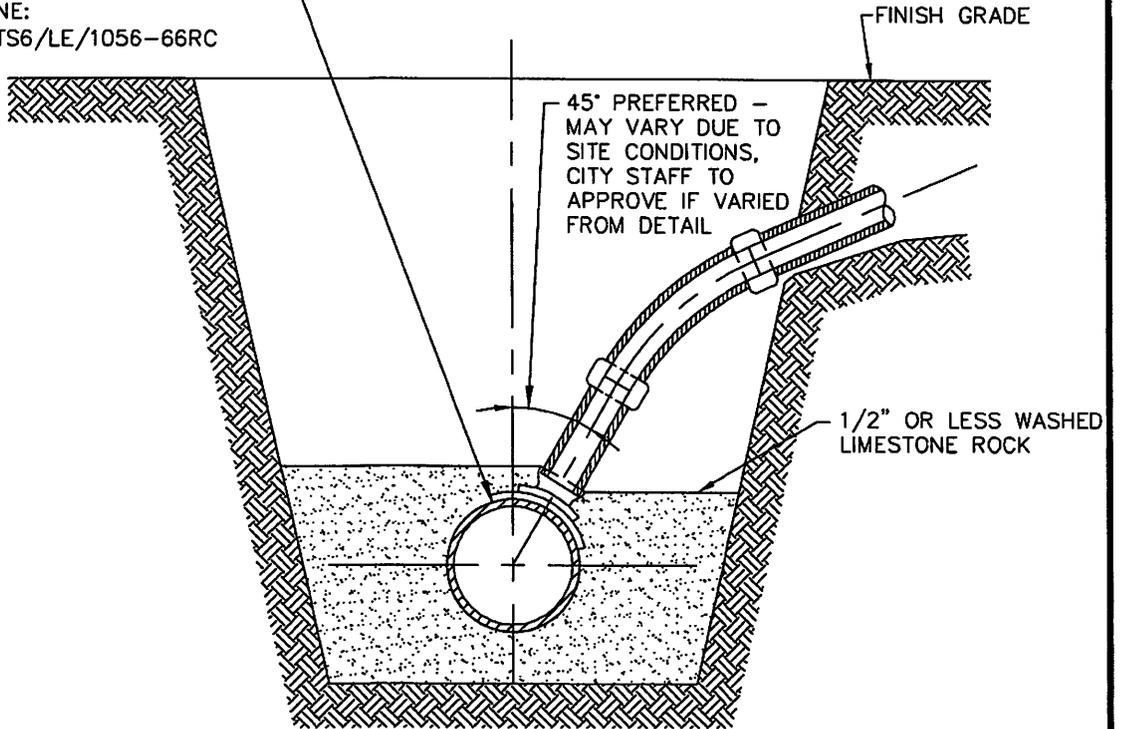
DATE: MARCH 2013

FILE NAME: THRUST BLOCK.DWG

SPIGOT TYPE SADDLE WITH STAINLESS  
STEEL SHIELDED COUPLING WITH  
STAINLESS STEEL SADDLE BAND KIT

FOR 4" SERVICE LINE:  
PREDCO PART # STS4/LE/1056-44RC

FOR 6" SERVICE LINE:  
PREDCO PART # STS6/LE/1056-66RC



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PUBLIC WORKS STANDARD DETAILS

PRIVATE LINE CONNECTIONS TO  
SEWER MAIN

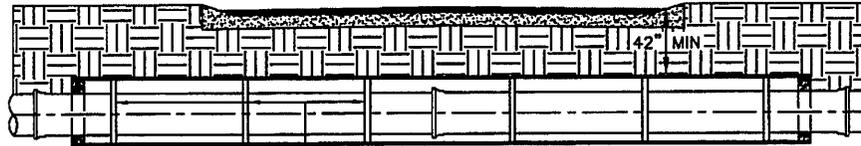
DATE: MARCH 2013

FILE NAME: SEWER SERVICE.DWG

KVE PN A13\_6318



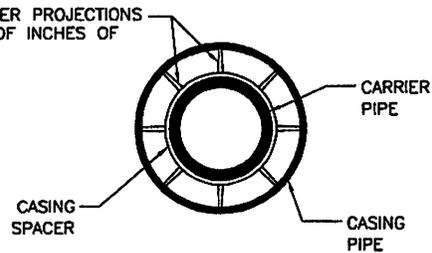
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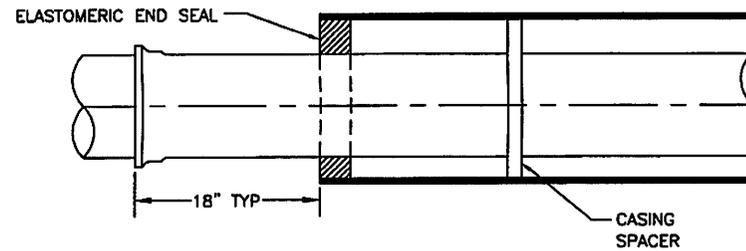
PROVIDE CASING SPACERS @ 6' SPACING TO POSITION CARRIER PIPE SUCH THAT THE REQUIRED ALIGNMENT AND GRADE IS MAINTAINED IN A RESTRAINED POSITION WITHIN THE CASING PIPE

ELEVATION

NUMBER OF CASING SPACER PROJECTIONS TO MATCH THE NUMBER OF INCHES OF NOMINAL PIPE DIAMETER



SECTION



END DETAIL

**NOTES:**

- 1) CASING SPACERS SHALL USE DOUBLE-BACKED TAPE PROVIDED WITH THE SPACERS TO FASTEN THEM TIGHTLY ONTO THE CARRIER PIPE SO THAT THE SPACERS DO NOT MOVE DURING INSTALLATION.
- 2) CASING SPACERS SHALL BE PROJECTION-TYPE, TOTALLY NON-METALLIC CONSTRUCTED OF PREFORMED SECTIONS OF HIGH-DENSITY POLYETHYLENE.
- 3) CASING SPACERS SHALL BE ISO 9002 CERTIFIED FOR STRENGTH AND QUALITY.

NOT TO SCALE

PUBLIC WORKS STANDARD DETAILS



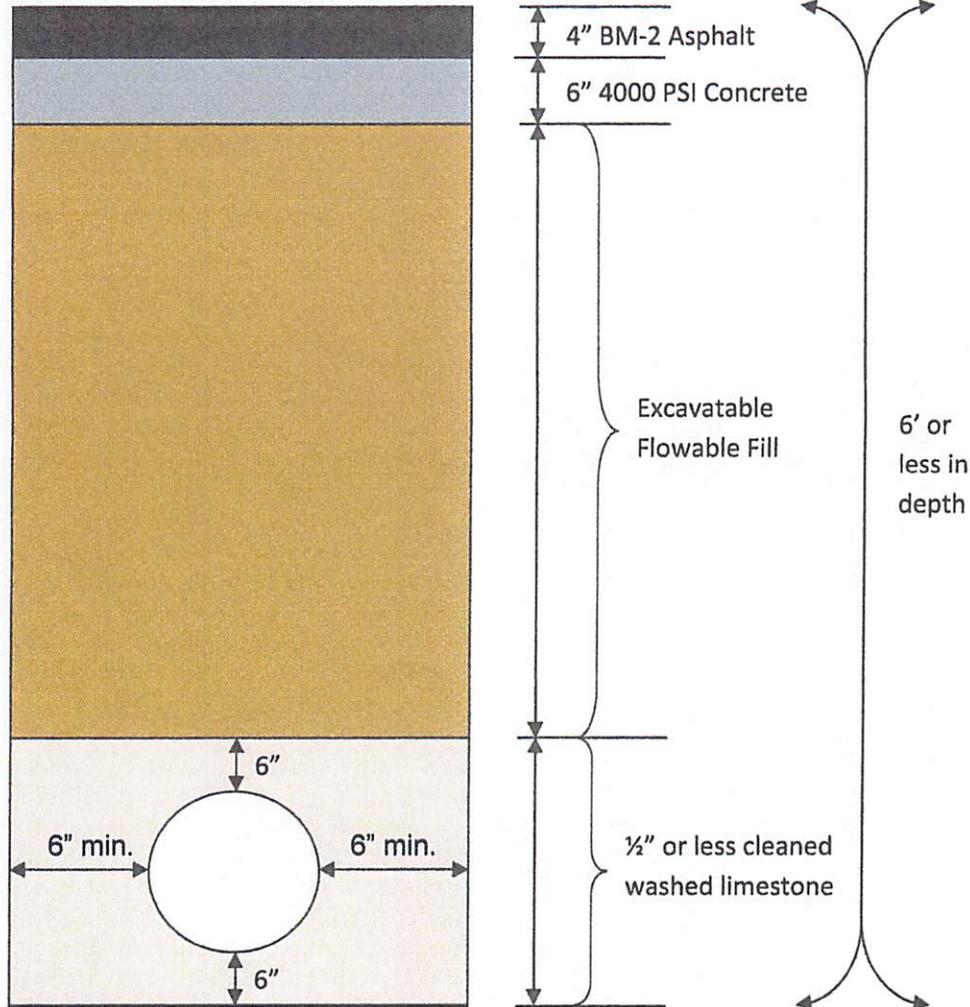
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**BORING & CASING DETAIL**

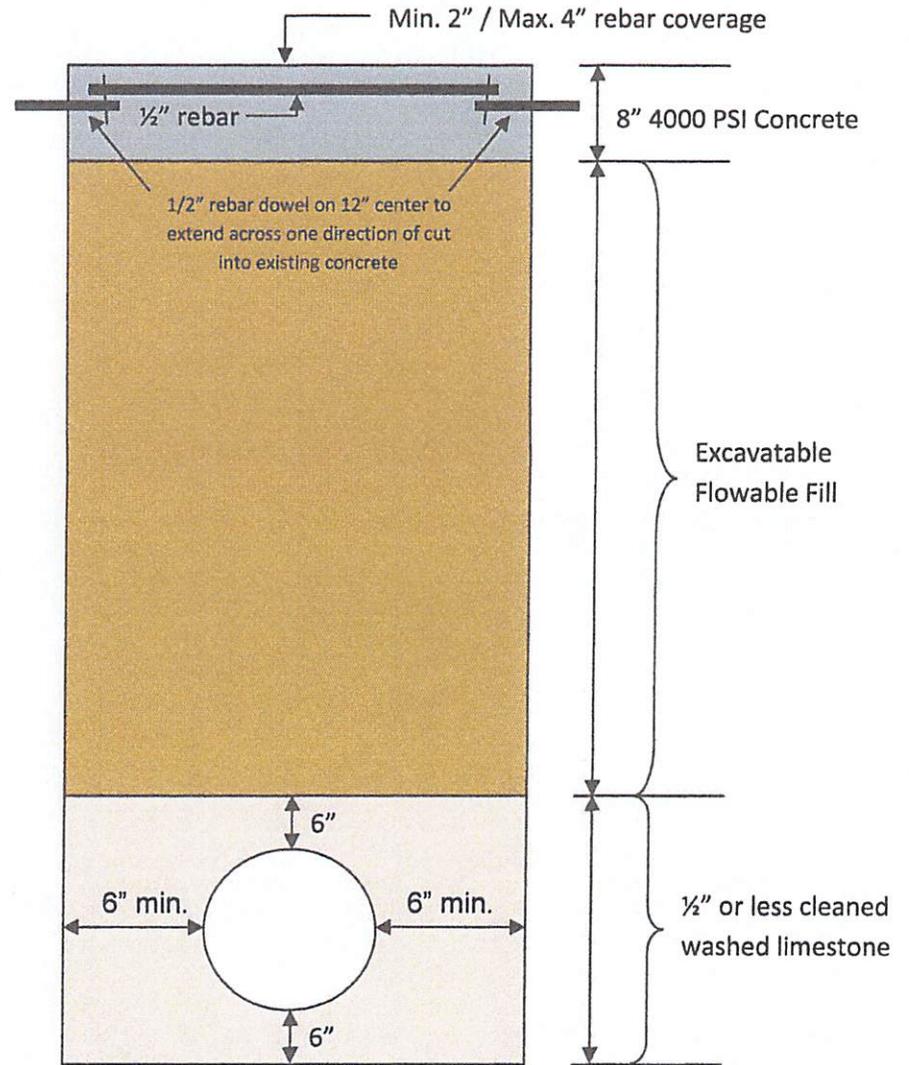
DATE: MARCH 2013

FILE NAME: BORING CASING.DWG

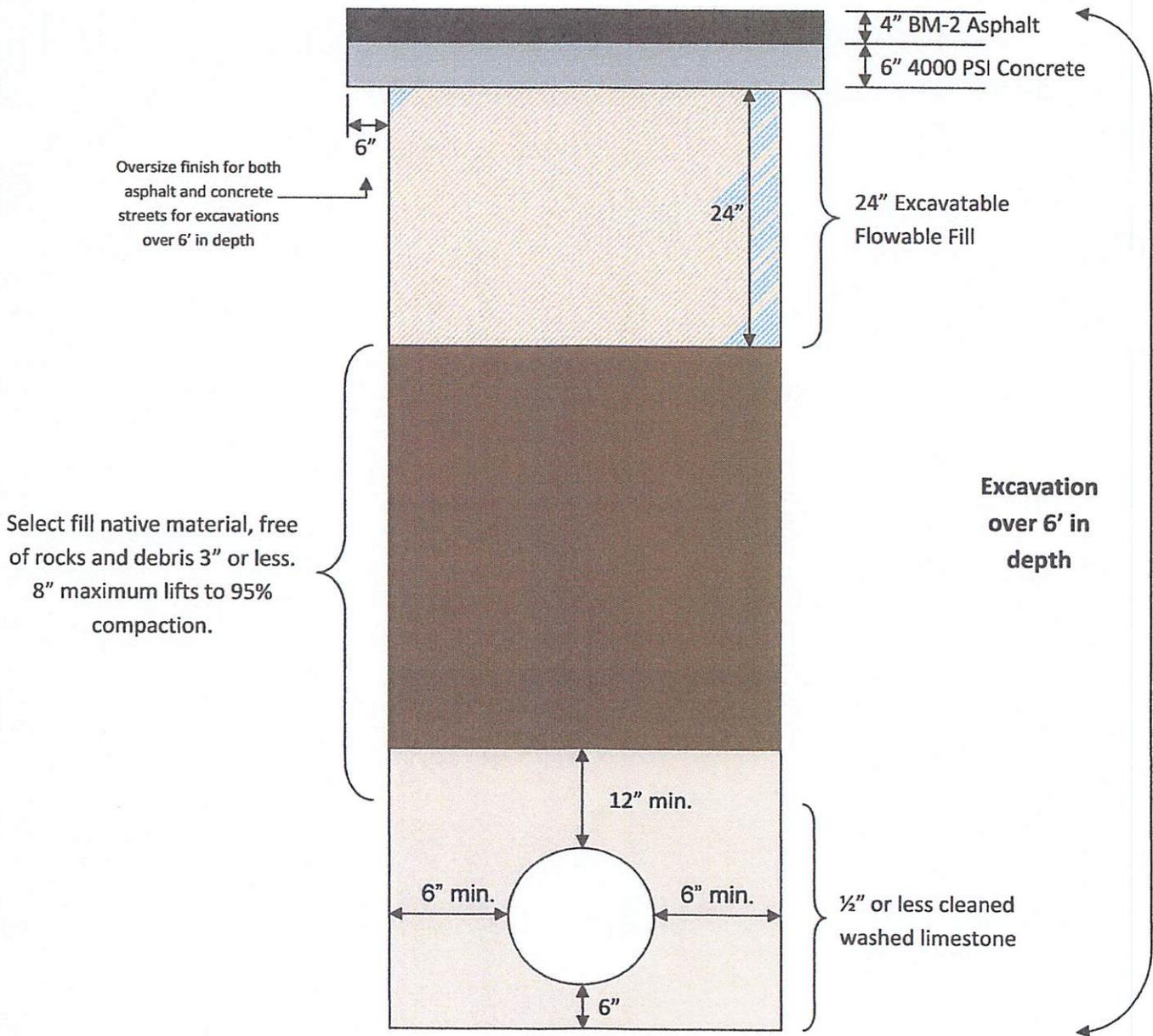
**Backfill/Bedding for Street, Alley, or Driveway in Existing Asphalt Right of Way**



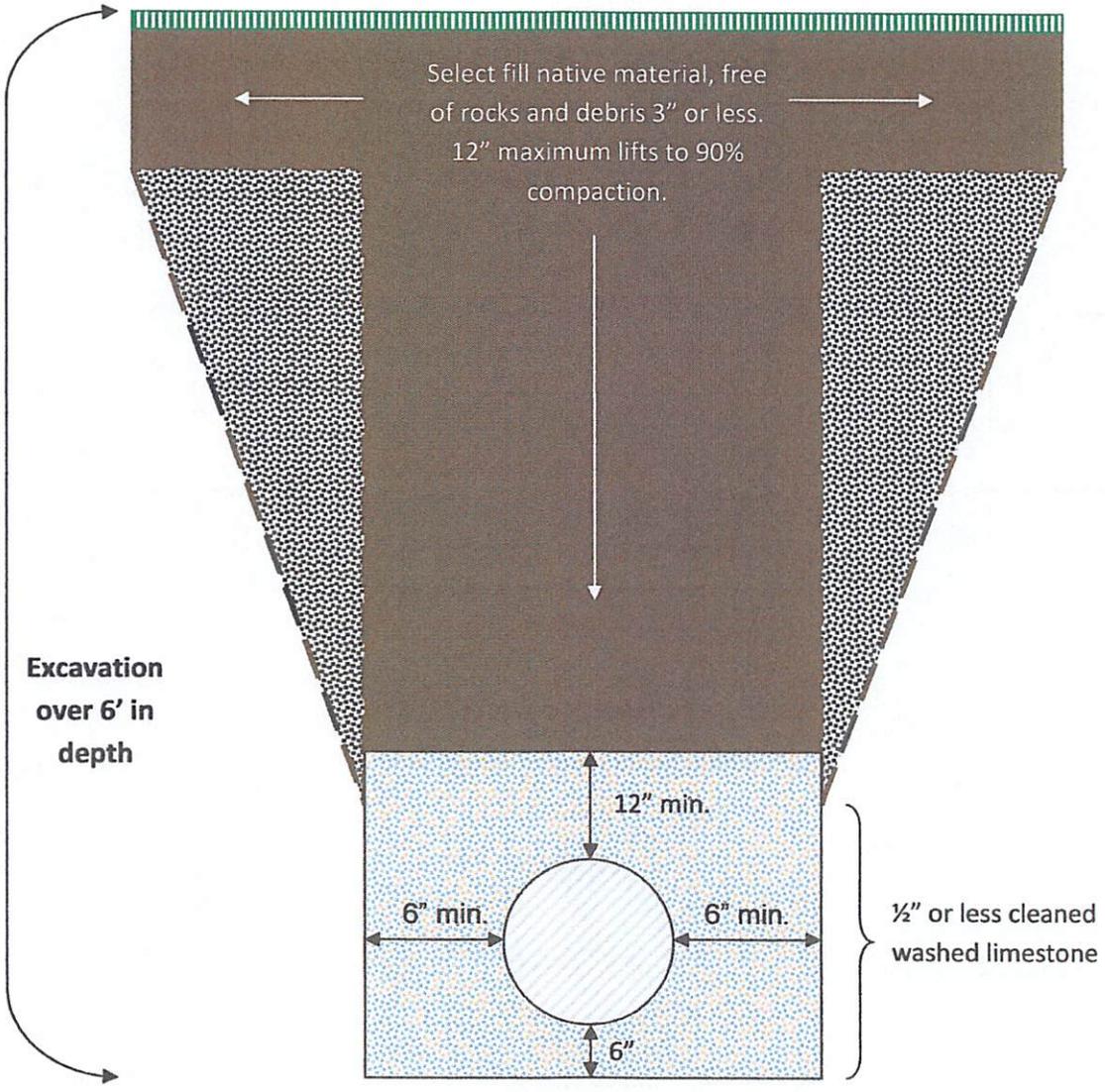
**Backfill/Bedding for Street, Alley, or Driveway in Existing Concrete Right of Way**



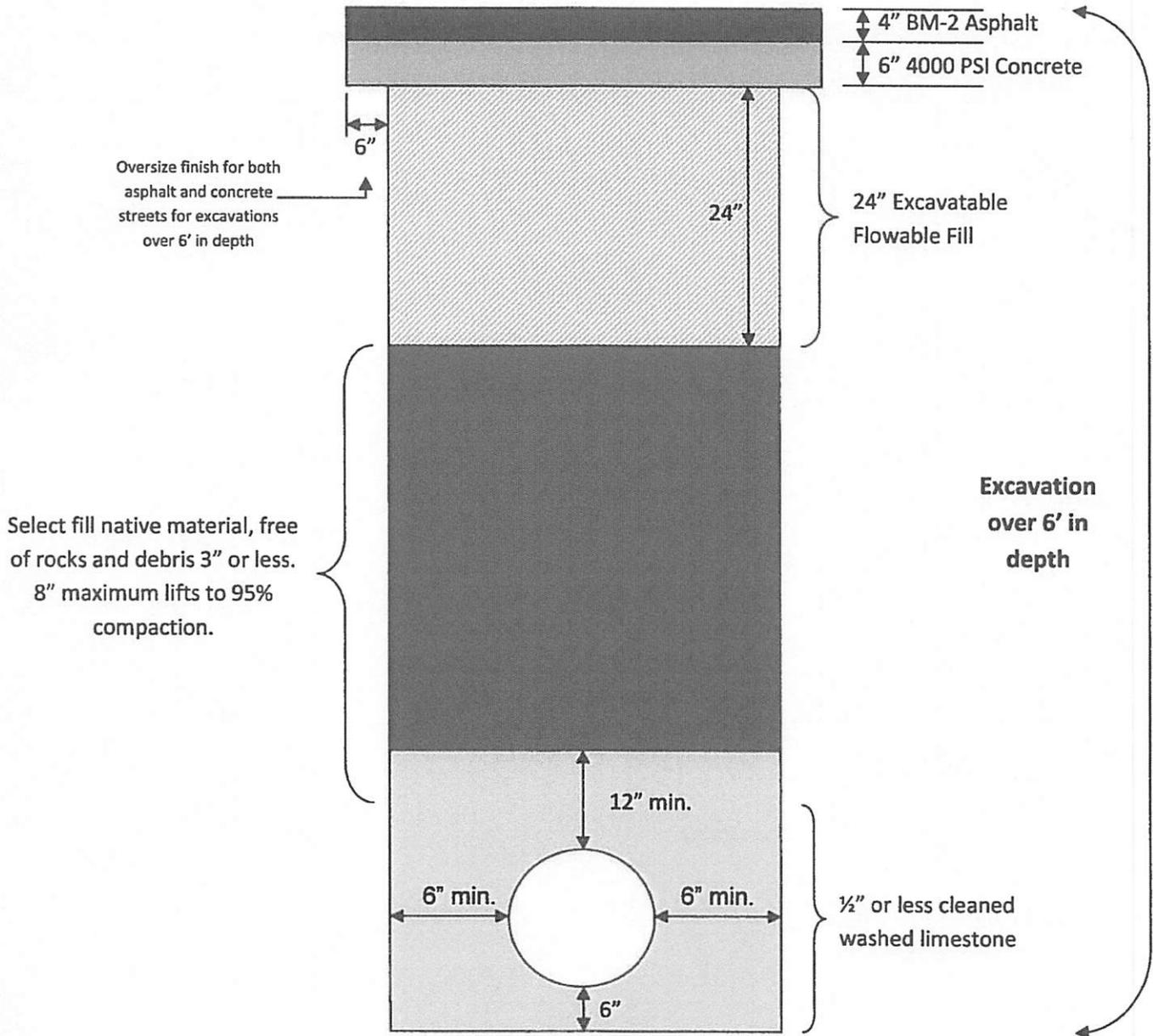
**Backfill/Bedding for Street, Alley, or Driveway in Existing Asphalt or Concrete Right of Way with excavation over 6' in depth**



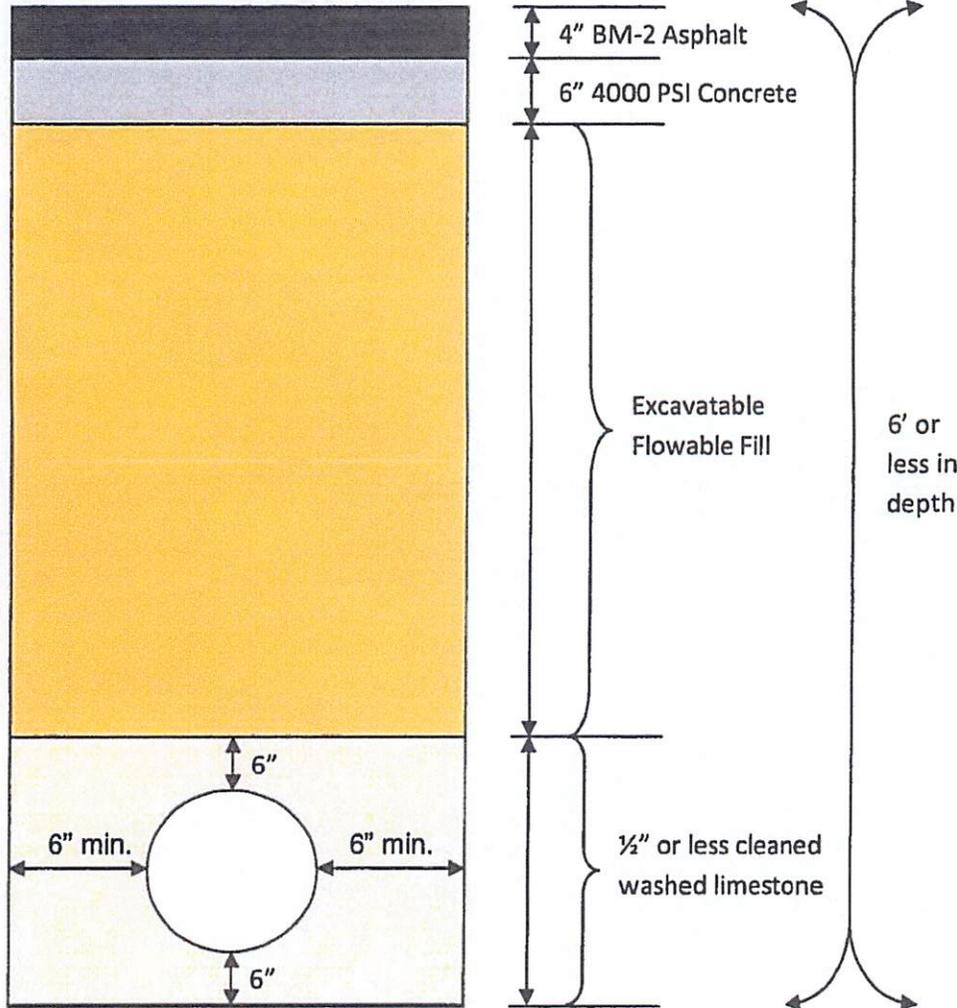
**Bedding in open ground (shown with sloped or benched excavation) where no driving surface exists**



**Backfill/Bedding for Street, Alley, or Driveway in  
Existing Asphalt or Concrete Right of Way with  
excavation over 6' in depth**



**Backfill/Bedding for Street, Alley, or Driveway in Existing Asphalt Right of Way**



**Backfill/Bedding for Street, Alley, or Driveway in Existing Concrete Right of Way**

