CITY OF HALTOM CITY SANITARY SEWER
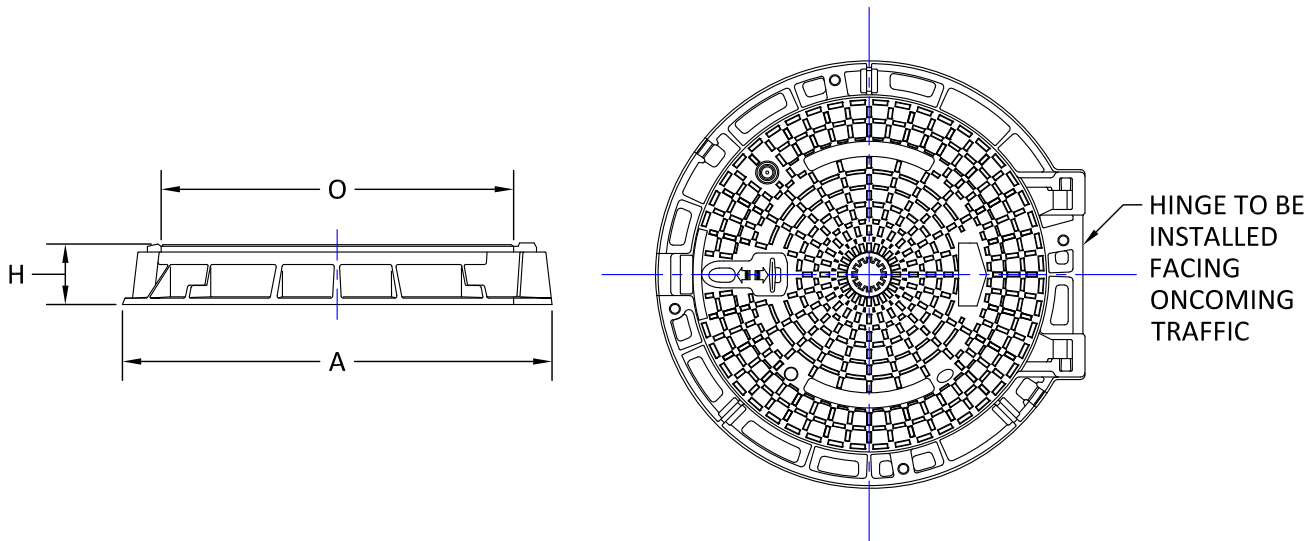
5024 BROADWAY AVENUE
PO BOX 14246
HALTOM CITY, TX 76117

SS 001 - PAMREX MANHOLE COVER AND FRAME

HINGE TO BE INSTALLED FACING ONCOMING TRAFFIC

NOTES:
1. MANHOLE COVER AND FRAME SHALL BE PAMREX OR APPROVED EQUAL. COVER AND FRAME SHALL BE MANUFACTURED FROM DUCTILE IRON.

2. COVERS SHALL BE DUALLY HINGED AND INCORPORATE A 90 DEGREE BLOCKING SYSTEM TO PREVENT ACCIDENTAL CLOSURE. COVERS SHALL BE ONE MAN OPERABLE USING STANDARD TOOLS AND SHALL BE CAPABLE OF WITHSTANDING A TEST LOAD OF 80,000 LBS.

3. FRAMES SHALL BE CIRCULAR, INCORPORATE A SEATING RING AND A FITTED PLUG IN EACH HINGE HOUSING, AND BE AVAILABLE IN A 32 INCH CLEAR OPENING. THE FRAME DEPTH SHALL NOT EXCEED 5 INCHES, AND THE FLANGE SHALL INCORPORATE BEDDING SLOTS, BOLT HOLES, AND LIFTING EYES.

4. ALL COMPONENTS SHALL BE BLACK COATED.

5. "PAMREX" COVER AND FRAME IS AVAILABLE FROM JIM COX SALES, INC. (800) 838-7377.

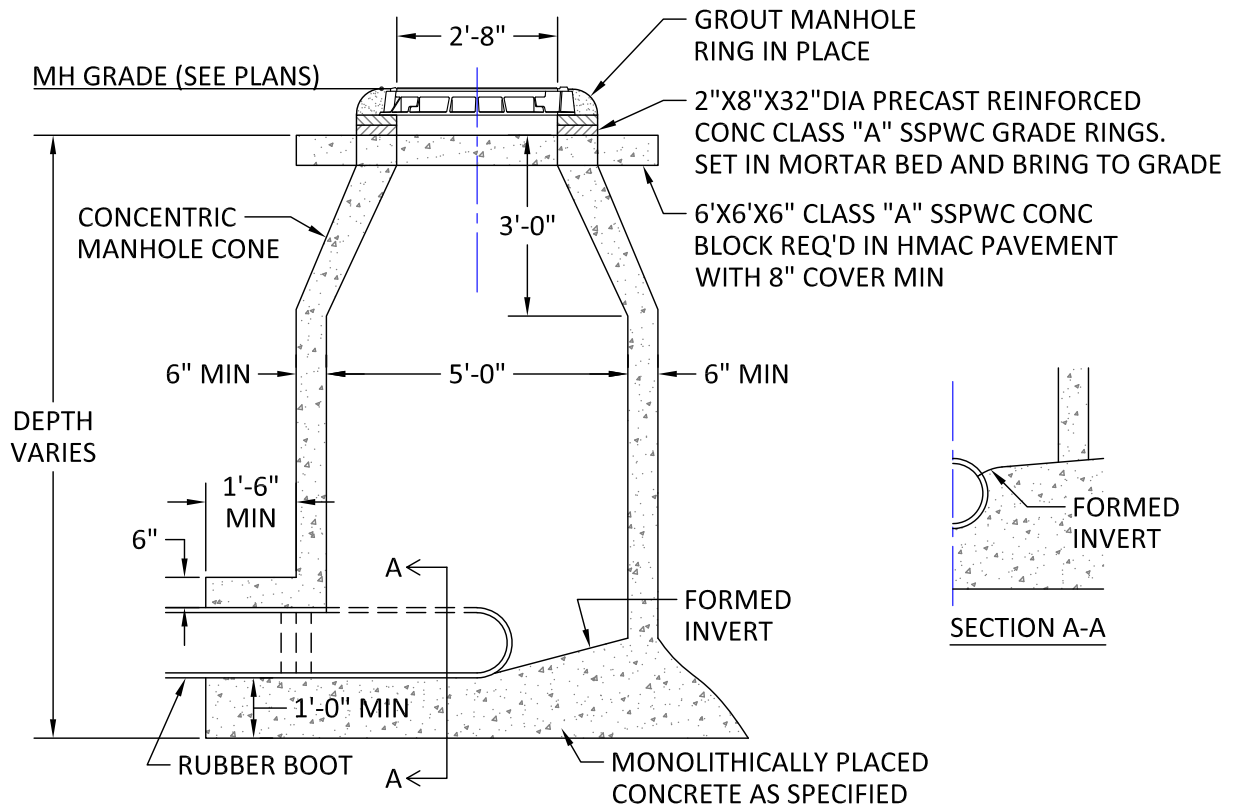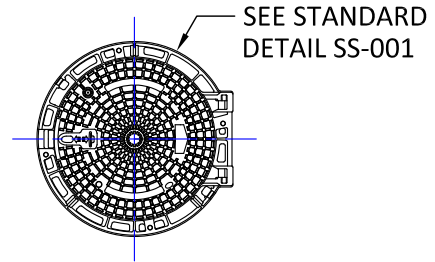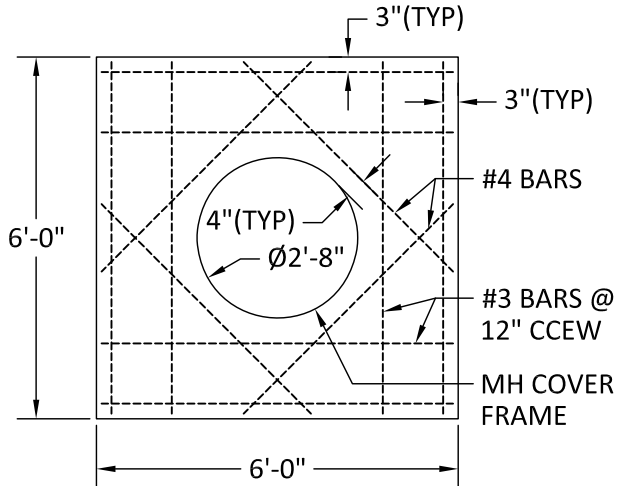| PAMREX	DIMENSIONS (IN)			WEIGHT (LBS)		REFERENCE
	A	O	H	COVER + FRAME	COVER ONLY	
800	42	32	5	269	162	RE 80 R8 FD
400	33	24	4	155	71	REPLACEMENT COVER

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CITY OF HALTOM CITY SANITARY SEWER

SS 002 - MANHOLE CAST IN PLACE

NOTE: 6 INCH THICK CLASS "A" CONCRETE BLOCK REQUIRED FOR MANHOLE IN CONCRETE PAVEMENT. SEE SSWPC

NOTE: CONCRETE FOR MANHOLES TO BE CLASS "A". SEE SSWPC

3"(TYP)

3"(TYP)

#4 BARS

4"(TYP)

Ø2'-8"

6'-0"

#3 BARS @ 12" CCEW

MH COVER FRAME

6'-0"

SEE STANDARD DETAIL SS-001

GROUT MANHOLE RING IN PLACE

2'-8"

MH GRADE (SEE PLANS)

2"X8"X32"DIA PRECAST REINFORCED CONC CLASS "A" SSPWC GRADE RINGS. SET IN MORTAR BED AND BRING TO GRADE

6'X6'X6" CLASS "A" SSPWC CONC BLOCK REQ'D IN HMAC PAVEMENT WITH 8" COVER MIN

CONCENTRIC MANHOLE CONE

3'-0"

6" MIN

5'-0"

6" MIN

DEPTH VARIES

1'-6" MIN

6"

A

A

FORMED INVERT

FORMED INVERT

SECTION A-A

1'-0" MIN

RUBBER BOOT

MONOLITHICALLY PLACED CONCRETE AS SPECIFIED
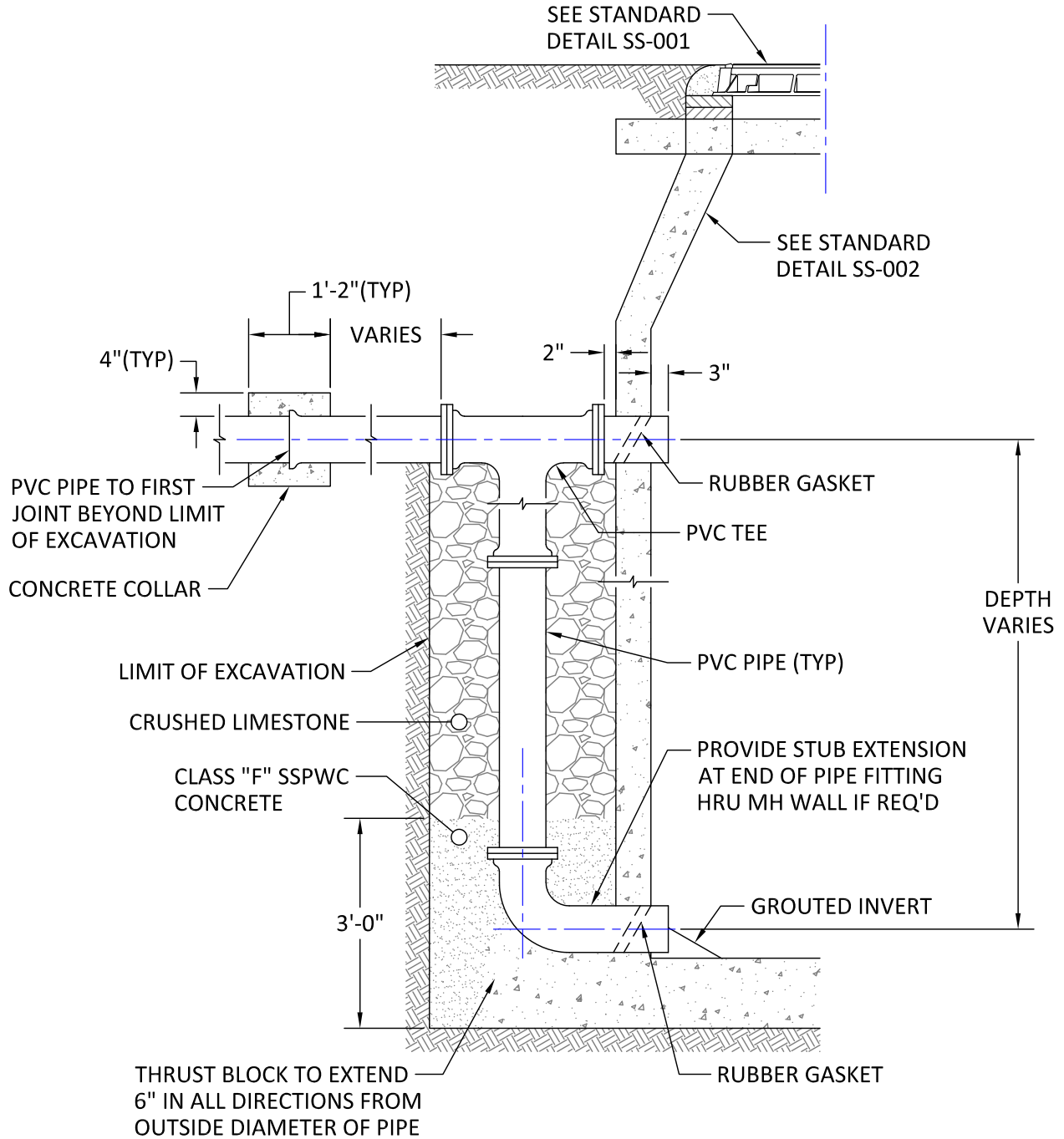
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CITY OF HALTOM CITY SANITARY SEWER

5024 BROADWAY AVENUE
PO BOX 14246
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SS 003 - DROP MANHOLE

NOTE: SEE PLANS FOR SIZE
AND DEPTH OF PVC PIPE

SEE STANDARD
DETAIL SS-001

SEE STANDARD
DETAIL SS-002

1'-2"(TYP)

VARIES

4"(TYP)

2"

3"

RUBBER GASKET

PVC PIPE TO FIRST
JOINT BEYOND LIMIT
OF EXCAVATION

PVC TEE

CONCRETE COLLAR

DEPTH
VARIES

LIMIT OF EXCAVATION

PVC PIPE (TYP)

CRUSHED LIMESTONE

PROVIDE STUB EXTENSION
AT END OF PIPE FITTING
HRU MH WALL IF REQ'D

CLASS "F" SSPWC
CONCRETE

GROUTED INVERT

3'-0"

THRUST BLOCK TO EXTEND
6" IN ALL DIRECTIONS FROM
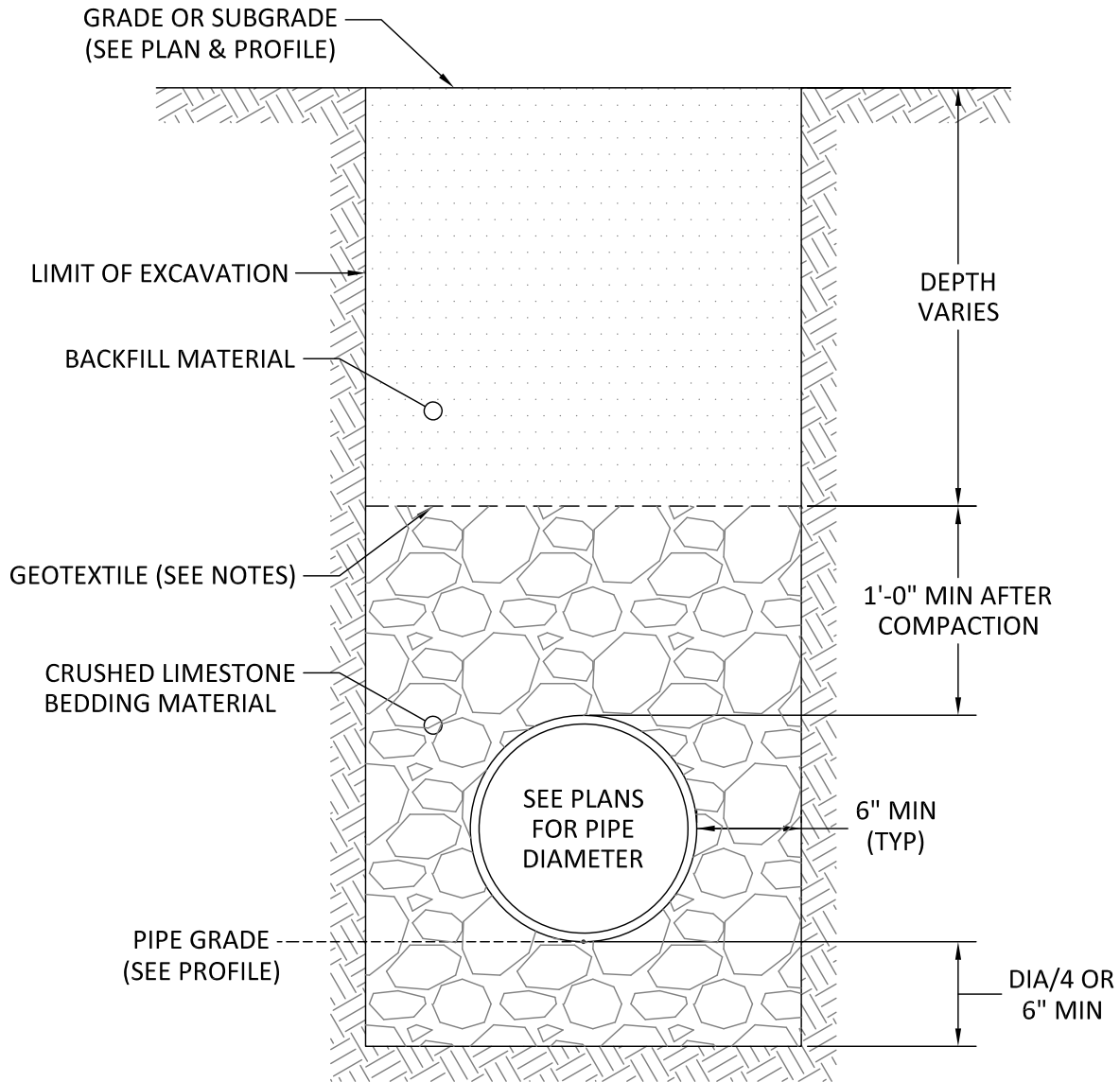OUTSIDE DIAMETER OF PIPE

RUBBER GASKET

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CITY OF HALTOM CITY SANITARY SEWER

5024 BROADWAY AVENUE
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SS 004 - PIPE EMBEDMENT

GRADE OR SUBGRADE
(SEE PLAN & PROFILE)

LIMIT OF EXCAVATION

BACKFILL MATERIAL

GEOTEXTILE (SEE NOTES)

CRUSHED LIMESTONE
BEDDING MATERIAL

SEE PLANS
FOR PIPE
DIAMETER

PIPE GRADE
(SEE PROFILE)

DEPTH
VARIES

1'-0" MIN AFTER
COMPACTION

6" MIN
(TYP)

DIA/4 OR
6" MIN

NOTES:
1. TRENCH PROTECTION REQUIRED WHEN TRENCH DEPTH IS GREATER THAN 5'-0"
2. SEE SPECIFICATIONS FOR BACKFILL AND CONCRETE REQUIREMENTS
3. WRAP BACKFILL MATERIAL IN GEOTEXTILE MATERAL
4. GEOTEXTILE TO BE PLACED BETWEEN CRUSHED LIMESTONE BEDDING MATERIAL AND GRANULAR EMBEDMENT
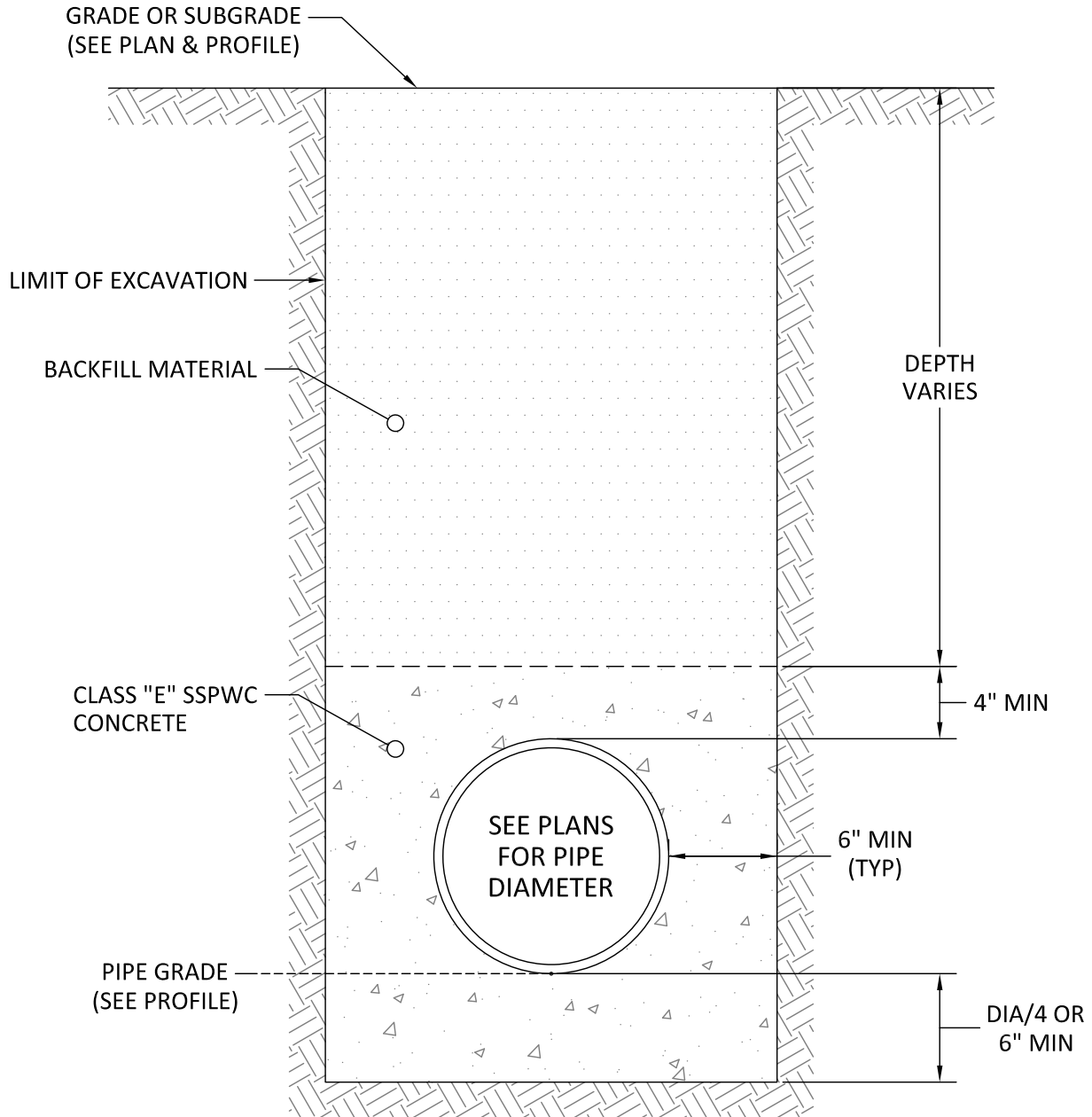5. GEOTEXTILE TO BE D-9-6200 OR APPROVED BY CITY ENGINEER

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CITY OF HALTOM CITY SANITARY SEWER

SS 005 - CONCRETE PIPE ENCASEMENT

GRADE OR SUBGRADE
(SEE PLAN & PROFILE)

LIMIT OF EXCAVATION

BACKFILL MATERIAL

DEPTH
VARIES

CLASS "E" SSPWC
CONCRETE

4" MIN

SEE PLANS
FOR PIPE
DIAMETER

6" MIN
(TYP)

PIPE GRADE
(SEE PROFILE)

DIA/4 OR
6" MIN

NOTES:
1. TRENCH PROTECTION REQUIRED WHEN TRENCH DEPTH IS GREATER THAN 5'-0"
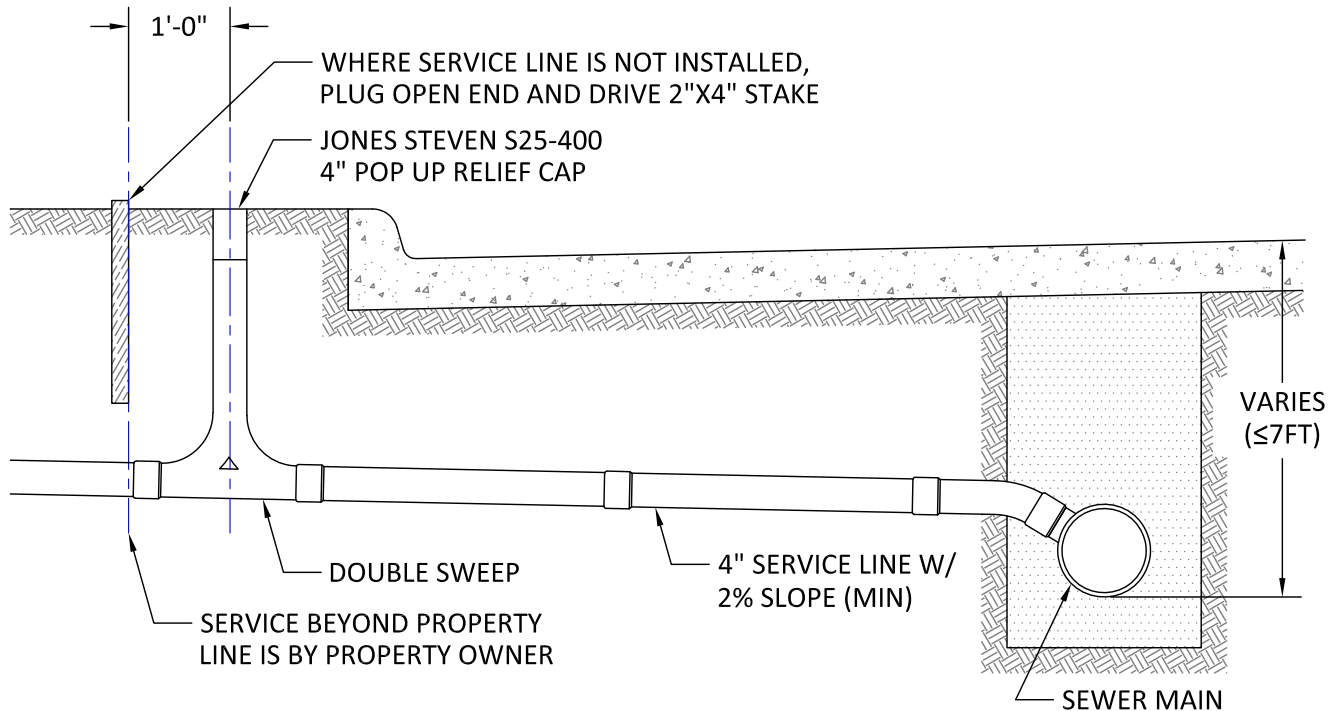2. SEE SPECIFICATIONS FOR BACKFILL AND CONCRETE REQUIREMENTS

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CITY OF HALTOM CITY SANITARY SEWER

5024 BROADWAY AVENUE
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SS 006- SHALLOW SANITARY SEWER SERVICE

1'-0"

WHERE SERVICE LINE IS NOT INSTALLED,
PLUG OPEN END AND DRIVE 2"X4" STAKE

JONES STEVEN S25-400
4" POP UP RELIEF CAP

VARIES
(≤7FT)

DOUBLE SWEEP

4" SERVICE LINE W/
2% SLOPE (MIN)

SERVICE BEYOND PROPERTY
LINE IS BY PROPERTY OWNER

SEWER MAIN

NOTES:
1. TRENCH PROTECTION REQUIRED WHEN TRENCH DEPTH IS GREATER THAN 5'-0"
2. SANITARY SEWER SERVICE CONNECTIONS UP TO 7'-0" DEEP ARE "STANDARD" SERVICE CONNECTIONS. SERVICE CONNECTIONS DEEPER THAN 7'0" ARE "DEEP" SERVICE CONNECTIONS
3. MINIMUM COVER OVER SANITARY SEWER SERVICE PIPE IS 24" BELOW SUBGRADE OR AS REQUIRED TO SERVICE CUSTOMER
4. THE 4" SERVICE LINE SHALL BE SCH-40 PVC PIPE AND FITTINGS
5. SANITARY SEWER SERVICE LINE LOCATION TO BE MARKED WITH RED VINYL TAPE AT LEAST 3" WIDE AND 10 MIL. THICK ATTACHED TO THE END OF THE SERVICE AND EXTENDING THROUGH THE BACKFILL AT THE POINT OF HOUSE SERVICE CONNECTION BEHIND THE CURB
6. EITHER WYE OR SADDLE MAY BE USED FOR CONNECTION. IF USING A SADDLE, ENCASE IN CONCRETE
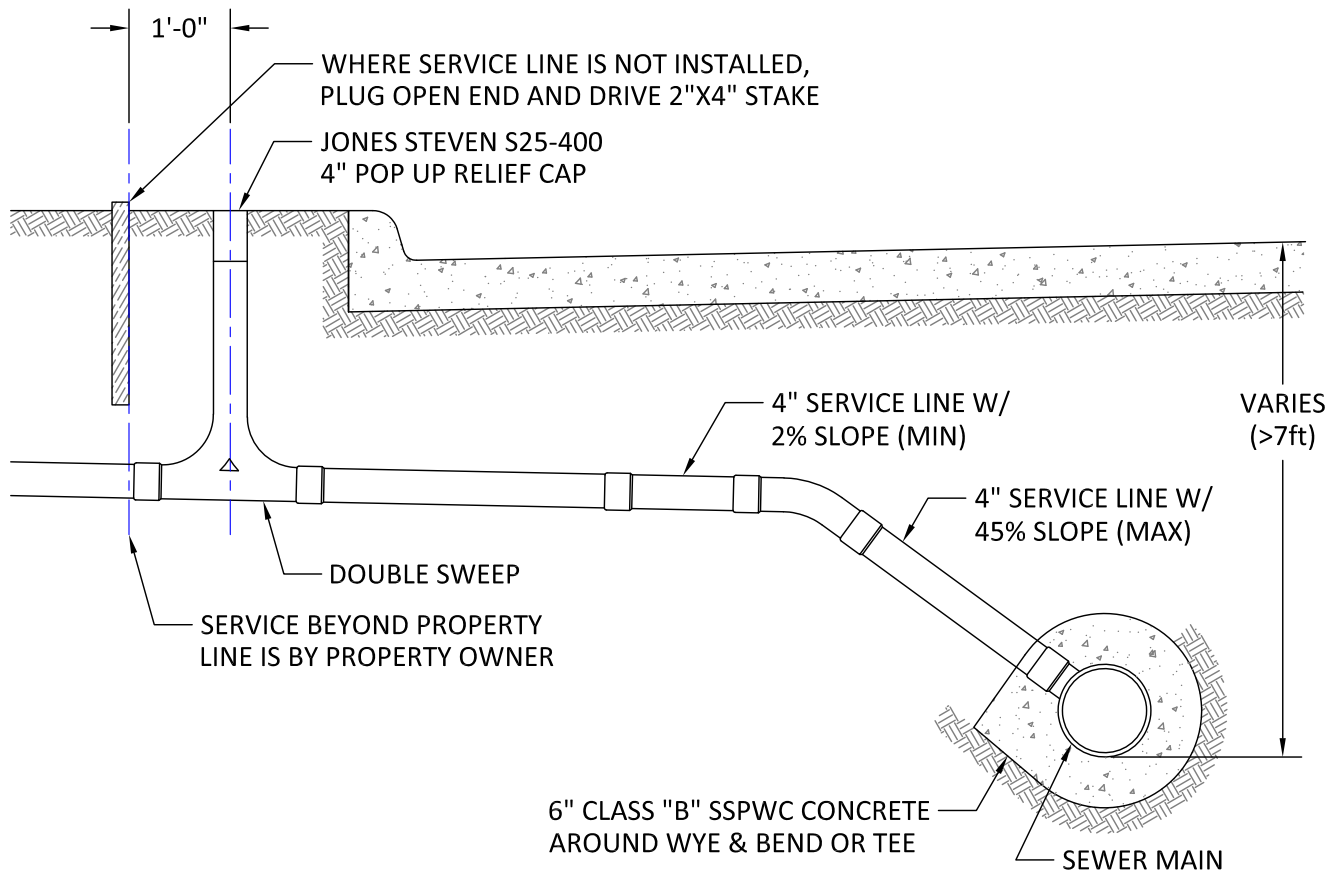
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CITY OF HALTOM CITY SANITARY SEWER

5024 BROADWAY AVENUE
PO BOX 14246
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SS 007 - DEEP SANITARY SEWER SERVICE

1'-0"

WHERE SERVICE LINE IS NOT INSTALLED,
PLUG OPEN END AND DRIVE 2"X4" STAKE

JONES STEVEN S25-400
4" POP UP RELIEF CAP

4" SERVICE LINE W/
2% SLOPE (MIN)

4" SERVICE LINE W/
45% SLOPE (MAX)

VARIES
(>7ft)

DOUBLE SWEEP

SERVICE BEYOND PROPERTY
LINE IS BY PROPERTY OWNER

6" CLASS "B" SSPWC CONCRETE
AROUND WYE & BEND OR TEE

SEWER MAIN

NOTES:
1. TRENCH PROTECTION REQUIRED WHEN TRENCH DEPTH IS GREATER THAN 5'-0"
2. SANITARY SEWER SERVICE CONNECTIONS UP TO 7'-0" DEEP ARE "STANDARD" SERVICE CONNECTIONS. SERVICE CONNECTIONS DEEPER THAN 7'0" ARE "DEEP" SERVICE CONNECTIONS
3. MINIMUM COVER OVER SANITARY SEWER SERVICE PIPE IS 24" BELOW SUBGRADE OR AS REQUIRED TO SERVICE CUSTOMER
4. THE 4" SERVICE LINE SHALL BE SCH-40 PVC PIPE AND FITTINGS
5. SANITARY SEWER SERVICE LINE LOCATION TO BE MARKED WITH RED VINYL TAPE AT LEAST 3" WIDE AND 10 MIL. THICK ATTACHED TO THE END OF THE SERVICE AND EXTENDING THROUGH THE BACKFILL AT THE POINT OF HOUSE SERVICE CONNECTION BEHIND THE CURB
6. EITHER WYE OR SADDLE MAY BE USED FOR CONNECTION. IF USING A SADDLE, ENCASE IN CONCRETE

LAST REVISED: FEBRUARY 2004