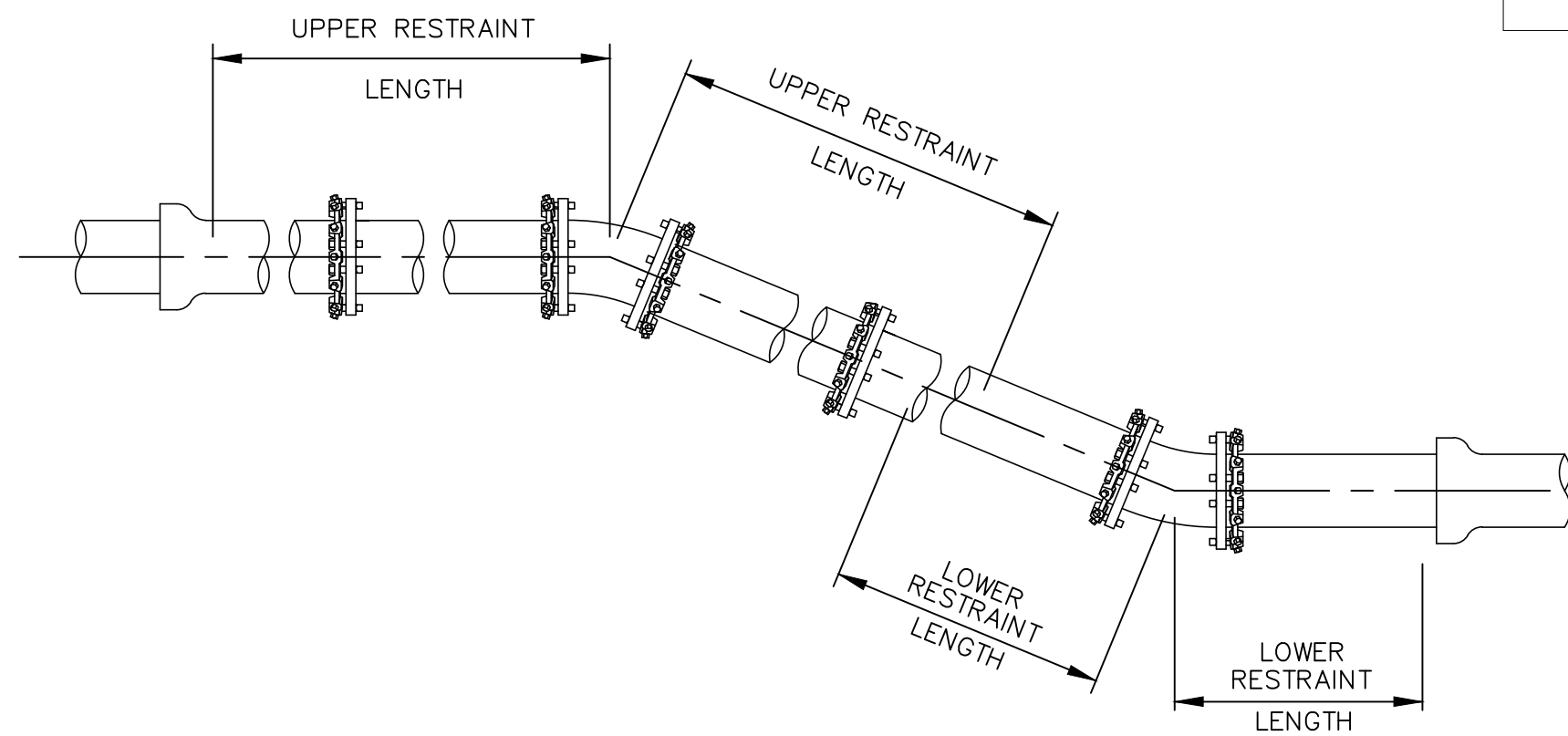


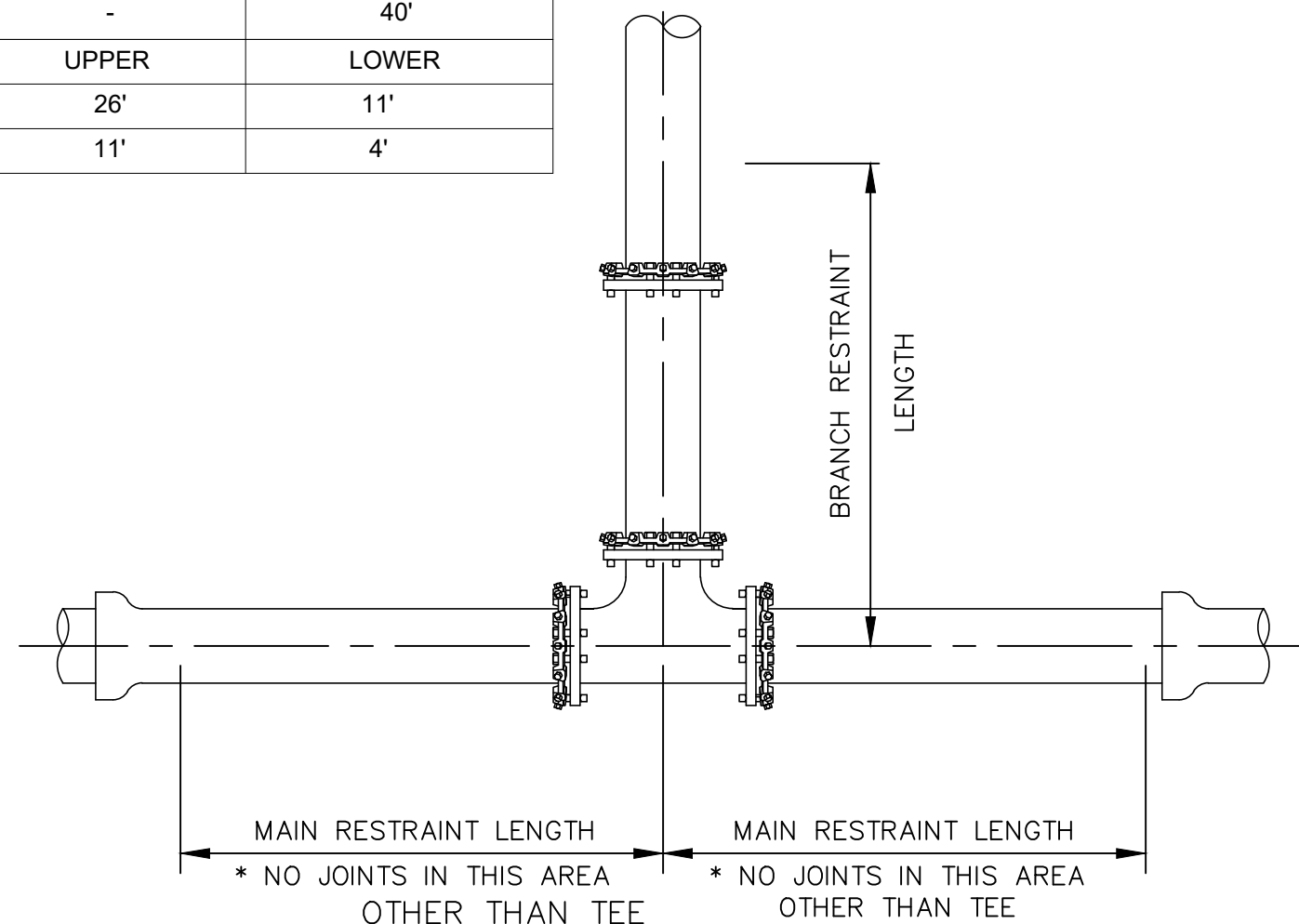
TYPICAL HORIZONTAL BEND RESTRAINT
NOT TO SCALE



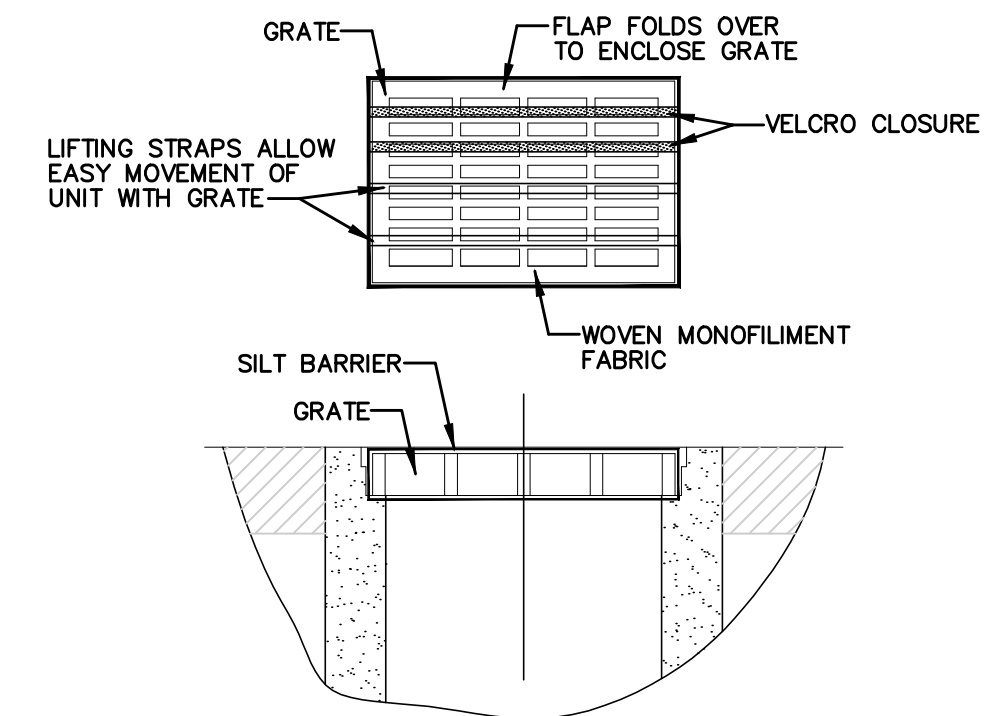
TYPICAL VERTICAL BEND RESTRAINT
NOT TO SCALE

THRUST RESTRAINT TABLE FOR STANDARD FITTINGS

FITTING	SIZE	MINIMUM MAIN RESTRAINT LENGTH	MINIMUM BRANCH RESTRAINT LENGTH
HORIZONTAL FITTINGS			
45° BEND	6"	11'	---
22.5° BEND	6"	6'	---
DEAD END	6"	45'	---
TEE	16"x8"	-	40'
VERTICAL FITTINGS		UPPER	LOWER
45°	6"	26'	11'
22.5°	6"	11'	4'

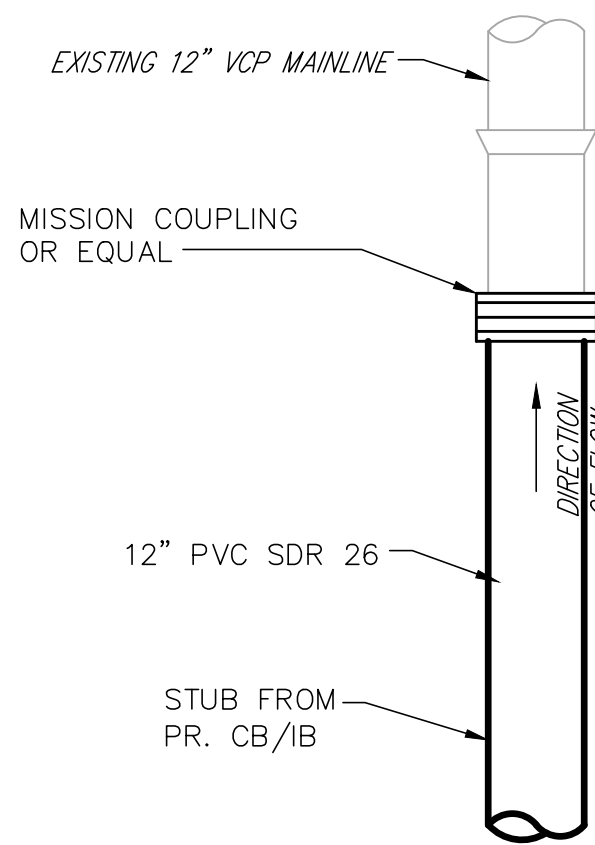


TYPICAL HORIZONTAL TEE RESTRAINT
NOT TO SCALE

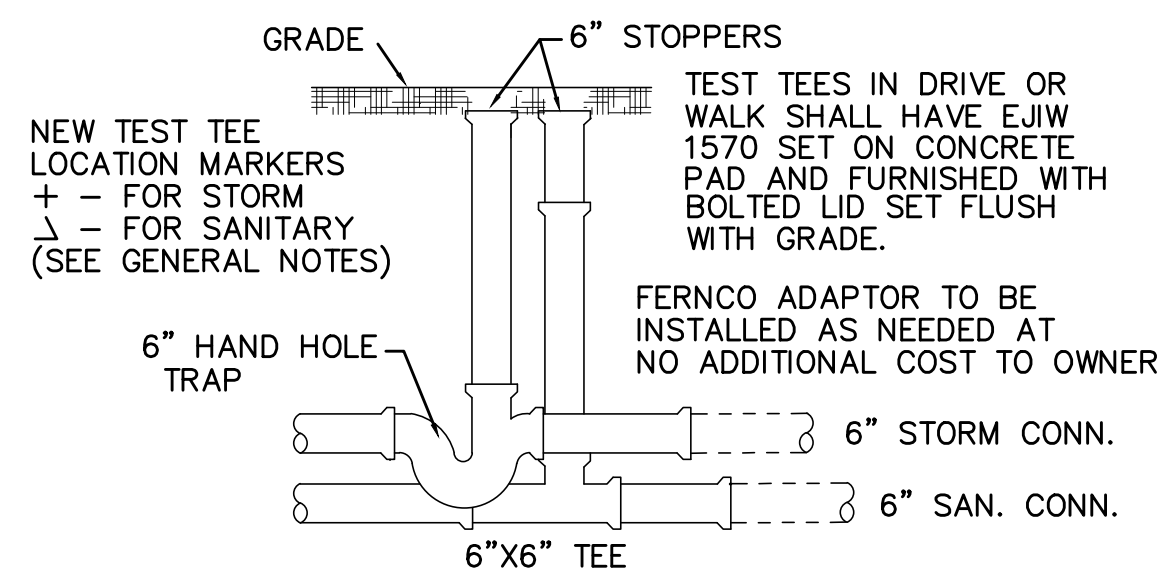


1. GEOTEXTILE SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20-40 SIEVE AND BE RESISTANT TO SUNLIGHT.
2. MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH STORM EVENT. REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE SILT BARRIER AS NEEDED.
3. TO INSTALL CATCH BASIN INLET SILT BARRIER: THE EMPTY SILT BARRIER SHOULD BE PLACED OVER THE GRATE AS THE GRATE STANDS ON END. TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE GRATE. HOLDING THE LIFTING DEVICES (DO NOT RELY ON LIFTING DEVICES TO SUPPORT THE ENTIRE WEIGHT OF THE GRATE), PLACE THE GRATE INTO ITS FRAME.

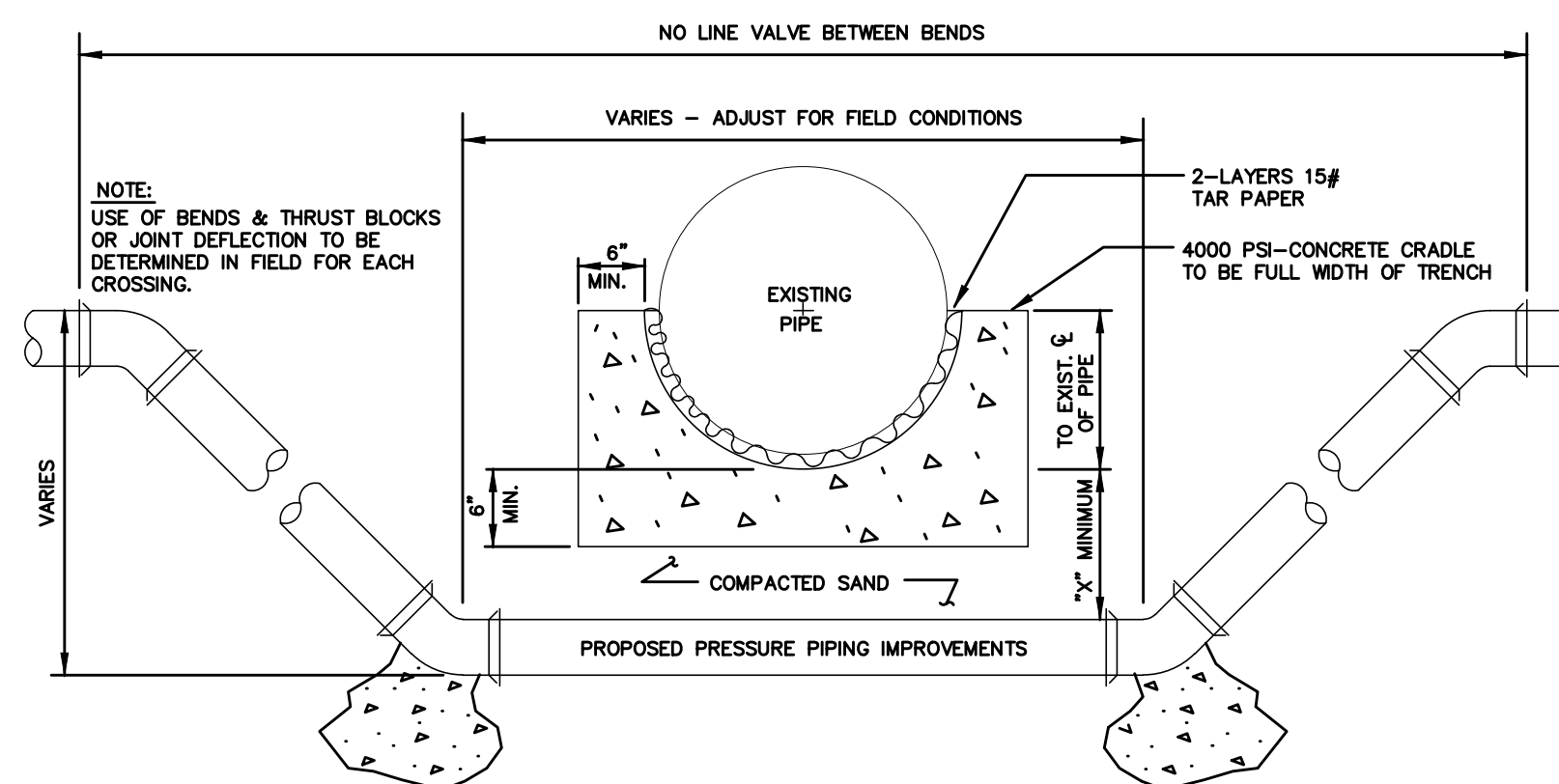
INLET PROTECTION FOR CATCH BASIN IN ROADWAY



12" CONNECTION TO EX. STORM MAIN



TEST TEE DETAIL



CONCRETE CRADLE CONDITIONS:

- IF SANITARY OR STORM SEWER PIPE JOINT IS WITHIN PROPOSED IMPROVEMENT TRENCH LIMITS
- IF CROSSING A WATER LINE AT ANY POINT
- IF CROSSING SPACE IS LESS THAN MIN. SPACE OF CRADLE BELOW PIPE BOTTOM PLUS AFOREMENTIONED "X" DIMENSION THEN OMIT SAND FILL AND USE CONCRETE

"X" DIMENSION REQUIREMENTS:

- 6" FOR WATER LINE CROSSING (ALSO FOR GAS & O.B.T. LINES w/NO CRADLE NEEDED)
- 18" FOR SANITARY OR STORM SEWER PIPE
- IF CROSSING SPACE IS MORE THAN MIN. SPACE OF CRADLE BELOW PIPE BOTTOM PLUS AFOREMENTIONED "X" DIMENSION THEN EXTEND "X" DIMENSION TO MAKE UP DIFFERENCE.

PIPE LOWERING DETAIL

NOTE:
THE MAKE AND MODEL OF ALL WATERMAIN/SERVICE APPURTENANCES SHALL BE AS SPECIFIED IN THE MOST CURRENT VERSION OF THE L.C.D.U. RULES AND REGULATIONS SECTION 6, APPROVED MATERIALS- WATER

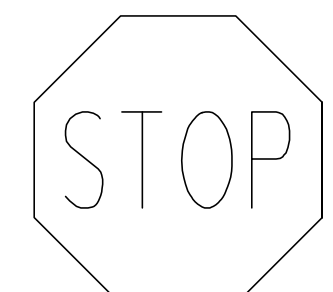
SIGNS



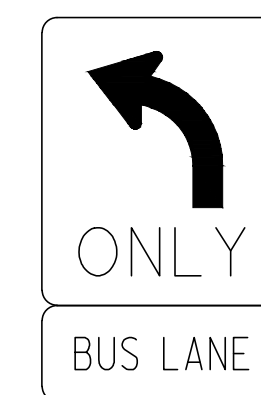
R5-1
30" x 30"
13' NO. 2 POST



R6-2L
24" x 30"
13' NO. 2 POST



R1-1
30" x 30"
13' NO. 2 POST



R3-5L or R
30" x 36"
R3-5gP
30" x 12"
13' NO. 2 POST



W11-2
30" x 30"
13' NO. 2 POST



ISSUED FOR:	CD	NO	REVISION	DATE
ISSUE DATE:	4/10/20			
SCALE:	AS NOTED			
DESIGNED BY:	PJF / GMS			
DRAWN BY:	GMS			
CHECKED BY:	PJF			

LAKETRAN WICKLIFFE PARK-N-RIDE LOT
29610 LAKELAND BLVD., WICKLIFFE, OH 44092

CONSTRUCTION DETAILS 3

PROJECT NO. **190065**

DISCIPLINE **CIVIL**

SHEET NAME **DT-3**

SHEET **14** OF **49**