CITY OF REDWOOD CITY
ENGINEERING AND TRANSPORTATION
(BAY MUD) POISSON FORCE
RESTRAINT ANCHOR WALL FOR
HDPE RECYCLED WATER MAIN

CONNECT AND RESTRANt EXISTING PIPE FLANGE TO HDPE FLANGE ADAPTOR, INSTALL RESTRAIN FLANGE COUPLING ADAPTOR, AS NEEDED.

HDPE BUTT FUSION FLANGE ADAPTOR.

FLEX RESTRAINT DEVICE
ELECTROFUSION FITTING
BY GEORG FISCHER CENTRAL PLASTICS OR APPROVED EQUAL

MIN. 4,000 PSI
STRENGTH CONCRETE

#4 REBAR w/ 3''
COVER MIN. (TYP.)

PaveMENT SURFACE
KEEP BOLTS AND NUTS CLEAR OF CONCRETE
6'' MAX. CLEARANCE

Pours concrete wall to
UNDERTOED SOIL AT BASE

DESIGN PARAMETERS:
1. SOIL BEARING VALUE OF 600 LBS. PER SQ. FT
2. DR 11 HDPE PIPE (L.P.S.) PE 4710, CONFORMING TO AWWA C906-07.
3. DESIGN SYSTEM PRESSURE = 100 PSI
4. RECURRING SURGE PRESSURE = 100 PSI
5. FLOW VELOCITY = 7 FPS
6. FLEX RESTRAINT CAPACITY OF 7000 LBS. EACH
7. PAVEMENT SURFACE MAX. 8''
8. SAFETY FACTOR = 1.5
9. IN CASES NOT CONFORMING TO DESIGN PARAMETERS RECALCULATE WALL DIMENSIONS, PER AWWA MANUAL M55

TYPICAL WALL Dimensions (FT)

<table>
<thead>
<tr>
<th>NOMINAL (D.P.S.)</th>
<th>&quot;W&quot; WIDTH</th>
<th>&quot;H&quot; HEIGHT</th>
<th>&quot;D&quot; DEPTH</th>
<th>&quot;C&quot; COVER</th>
<th>&quot;T&quot; &quot;THICK</th>
<th>&quot;L&quot; LENG</th>
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# OF BARS
HORIZ. VERT.
4 4 4 6 8 8 12'' 12'' 12'' 8 12 12'' 12''

RE-BAR SPACING (IN)
12'' 12'' 12'' 12'' 12'' 12'' 12'' 12'' 12''

# OF FLEX RESTRAINTS
3 4 5 5 5 7 7 9

DATE: 11/25/19

STANDARD DETAIL
RW - 18 HDPE