GENERAL NOTES:
1. INSTALLATION APPLICABLE TO S.C.C.P. & STEEL WATER MAINS ONLY.
   INSTALLATION FOR OTHER PIPE MATERIALS REQUIRE E.P.W.U. APPROVAL.
2. PRE-CAST MANHOLE SECTIONS SHALL BE OF REINFORCED CONCRETE
   CONFORMING TO ASTM C-478 AND SHALL MEET HS-20 LOADING.
   PROVIDE REINFORCEMENT WITHIN 3" @ OPENINGS OR KNOCKOUTS,
   OPENINGS (UP TO 8") MADE IN FIELD SHALL BE CORE DRILLED.
3. MANUFACTURER TO PROVIDE LIFTERS OF ADEQUATE SIZE AS NEEDED.
4. ECCENTRIC CONE SECTION REINFORCEMENT IN ACCORDANCE WITH
   ASTM C-478.

CONSTRUCTION KEY NOTES:
A. MANHOLE RING AND COVER (SEE DETAILS 377 & 378). SET FRAME
   AND COVER FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE (SEE
   DETAIL 185).
B. ALL JOINTS TO BE TONGUE, GROOVE AND SEALED WITH RAM-NEK OR
   APPROVED EQUAL.
C. 3" FLANGED GATE VALVE (NORMALLY CLOSED) WITH REMOVABLE
   HAND-HEEL.
D. 1½" DIAMETER SOLID STEEL EXTENSION STEM WITH SQUARE SOCKET
   ON BOTTOM TO FIT 2" SQUARE VALVE NUT AND 2" SQUARE
   OPERATOR NUT ON TOP.
E. ADJUSTABLE EXTENSION STEM GUIDE (AS PER DETAIL 261-3) @ 6'
   MAX. INTERVALS.
F. 3" SCH. 40 STEEL PIPE (FLxPE) WRAPPED WITH APPROVED POLYKEN
   TAPE (MIN. 80 MILS) COATING.
G. 3"—90° WELDED (PExPE) ELBOW (TYP.).
H. 3" WELDED FLANGE OUTLET (INSTALLED BY PIPE MANUFACTURER).
J. BUTTERFLY VALVE OPERATOR.
K. ADJUSTABLE SUPPORT OR APPROVED EQUAL.
L. 8" DIAMETER DRAIN HOLE FILLED WITH GRAVEL.
M. @ 12" O.C.C.W.
N. CONCRETE SUPPORT.
P. NOTCH MANHOLE SECTION FOR VALVE OPERATOR. FILL WITH BRICK
   AND MORTAR AFTER VALVE INSTALLATION.
Q. 24" DIAMETER BY 2"—6" DEEP GRAVEL SUMP.
R. CEMENT GROUT.
S. 1" PREMOLDED ASPHALT EXPANSION JOINT.
T. INSTALL A 3" DIA. DUCTILE IRON SPOOL PIECE WITH FLANDED ENDS,
   UNI-FLANGE NOT ACCEPTABLE. ONE SPOOL PIECE TO BE PROVIDED
   FOR EACH BUTTERFLY VALVE LOCATION. PROVIDE A 1" THREADED
   OUTLET WITH PLUG ON SPOOL PIECE. ALL SPOOL PIECES TO BE
   PROVIDED WITH FULL FACE GASKETS.
U. BUTTERFLY VALVE.
V. VALVE OPERATOR EXTENSION — 12" LONG.
W. 3" SCH. 40 STEEL PIPE (PExPE) WRAPPED WITH APPROVED POLYKEN
   TAPE (MIN. 80 MILS) COATING.