CHEMICAL PRESSURE GROUTING SYSTEM NOTES:
SEE SPECIAL CONDITIONS FOR DETAILED CONSTRUCTION SPECS.

1. MANHOLE SHALL BE THOROUGHLY CLEANED TO MEET MANUFACTURER'S SPECIFICATIONS PRIOR TO REHABILITATION.

2. ACTIVE INFLOW SHALL BE ELIMINATED PRIOR TO INJECTING GROUT.

3. URETHANE GEL GROUT SHALL BE UTILIZED FOR THE ENTIRE MANHOLE. ALL GROUTING OPERATIONS SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.

4. ON BRICK MANHOLES OR SEVERELY DETERIORATED CONCRETE MANHOLES PRIOR TO PRESSURE Grouting, THE ENTIRE INTERIOR SURFACE OF THE MANHOLE SHALL BE COATED WITH A LAYER OF DRY POLYMER MORTAR. NO DRILLING OR PRESSURE GROUTING SHALL BE DONE UNTIL THE DRY POLYMER MORTAR HAS DRIED 24 HOURS.

5. INJECTION HOLES SHALL BE DRILLED AT 90 3/64 ANGLES FROM EACH OTHER AT THE SAME PLANE OF ELEVATION. ADDITIONAL ROWS SHALL BE SEPARATED BY 18" AND STAGGERED WITH THE HOLES ABOVE AND BELOW. INJECTION HOLES SHALL BE PATCHED WITH A WATERPROOF QUICK SETTING MORTAR.

---

COATED PIPE SEAL:
- DRILL AND GROUT PIPE SEAL: TYPICAL. DRILL THREE (3) HOLES FOR PRESSURE GROUTING OF PIPE SEAL.

DRILL AND GROUT PIPE SEAL: URETHANE GEL GROUT MATERIAL

---

MANHOLE INTERIOR

---

WALL/CORBEL CHEMICAL PRESSURE GROUTING DETAIL

NOT TO SCALE

---

CHEMICAL PRESSURE GROUTING BRICK MANHOLE

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

DRAWN BY: R.M.D. APPROVED
CHECKED BY: H.B.
DATE: MARCH 2022

NOT TO SCALE STANDARD NO. 412