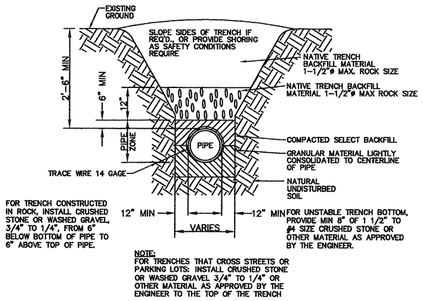
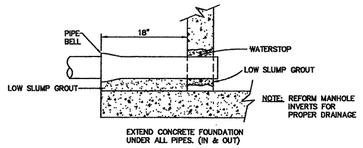
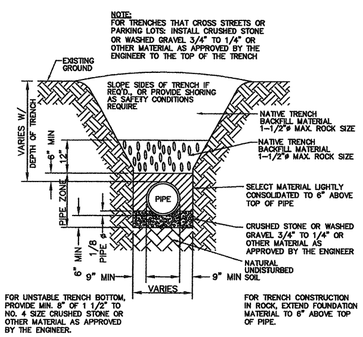


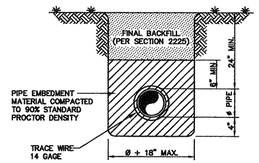

10 TYPICAL WATERLINE TRENCH
N.T.S.



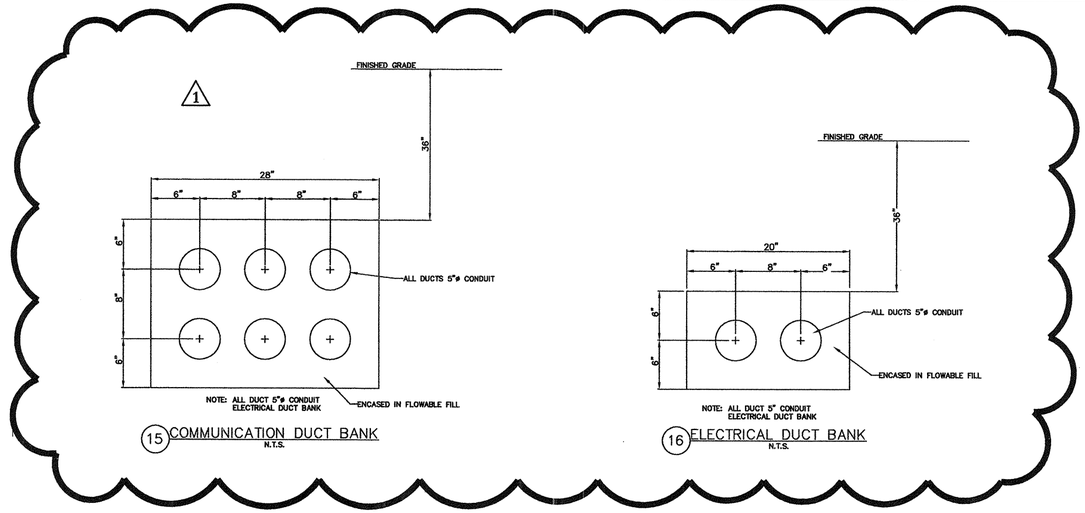

11 NEW SEWER LINE CONNECTION TO EXISTING MANHOLE
N.T.S.




12 TYPICAL DUCTILE IRON SEWER TRENCH
N.T.S.



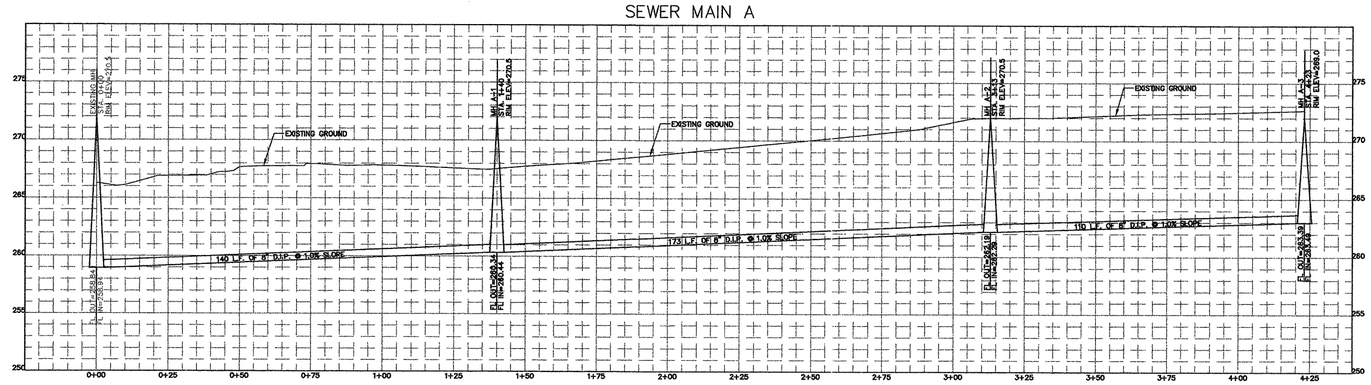

14 TYPICAL GAS TRENCH BEDDING AND BACKFILL
N.T.S.



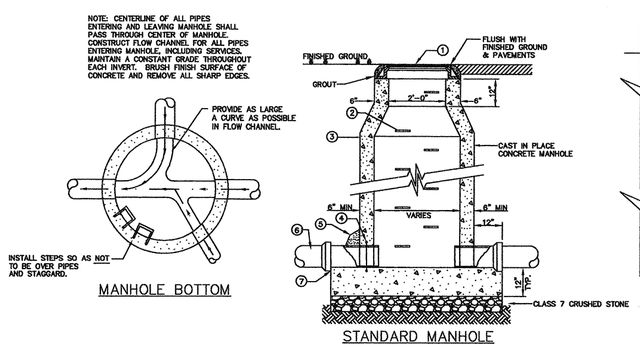

15 COMMUNICATION DUCT BANK
N.T.S.

16 ELECTRICAL DUCT BANK
N.T.S.

SEWER MAIN A




SCALE
1"=5' VERT
1"=20' HORZ




NOTES:

1A. SANITARY SEWER MANHOLE RING, FRAME AND COVER SHALL BE HEAVY DUTY, WITH 23 1/2" LID, 250# TOTAL WEIGHT, AND SHALL BE LABELED "LITTLE ROCK ARKANSAS SANITARY SEWER".
1B. ALL SANITARY SEWER MANHOLES, RINGS, FRAMES, AND COVERS LOCATED BELOW THE 100 YEAR FLOOD ELEVATION SHALL BE HEAVY DUTY WITH 23 1/2" LID, 250# TOTAL WEIGHT, WATER TIGHT BOLT DOWN LIDS AND BE LABELED "LITTLE ROCK ARKANSAS SANITARY SEWER"
1C. MANHOLES, FRAMES AND COVERS SUBJECT TO APPROVAL BY ENGINEER.
2. MANHOLE STEPS SHALL BE AS DETAILED ON SHEET C404
3. MANHOLE WALLS AND BASE SHALL BE CAST-IN-PLACE OR PRECAST CONCRETE.
4. EXPANDABLE WATER STOP AS PER MANUFACTURER'S SPECIFICATIONS, TO PREVENT WATER INFILTRATION.
5. SEAL OUTSIDE WITH MORTAR.
6. SEE PLANS FOR PIPE SIZE.
7. ALL PIPING SHALL HAVE A FLEXIBLE JOINT (OR FITTING) WITHIN 12" OF EXTERIOR WALL. (EXTEND CONCRETE BASE TO FLEXIBLE FITTING)
8. MINIMUM CONCRETE COMPRESSIVE STRENGTH FOR MANHOLES SHALL BE 3000 PSI.

13 MANHOLE DETAIL
N.T.S.


**POLK STANLEY YEARY ARCHITECTS, LTD.**

700 SOUTH SCHILLER
LITTLE ROCK, AR 72201
501 378-0878
FAX 372-7629

21 W. MOUNTAIN, SUITE 227
FAYETTEVILLE, AR 72701
479-444-0473


**CONSULTANTS:**
OWNER'S PROJECT ADVISOR: MOSES TUCKER REAL ESTATE, INC.
CIVIL ENGINEER: McCLELLAND CONSULTING ENGINEERS INC.
LANDSCAPE ARCHITECT: LARSON BURNS SMITH
STRUCTURAL ENGINEER: CROMWELL ENGINEERS INC.
MECH., ELEC., PLUMB. ENGINEER: CROMWELL ENGINEERS INC.
SUSTAINABLE CONSULTANT: BNIM / ELEMENTS
GLOBAL VILLAGE CONSULTANT: CAMBRIDGE SEVEN ASSOCIATES
INTERIOR DESIGNER: POLK STANLEY YEARY
GENERAL CONTRACTOR: CDI CONTRACTORS, INC.

**GENERAL NOTES:**

**NOTES:**

ISSUE DATE:
CORE / SHELL
BID PACKAGE #5
DECEMBER 15, 2003

**REVISIONS:**

| # | DATE | DESCRIPTION |
|---|---|---|
| 1 | 1-16-04 | ADDENDUM #1 |
| 2 | 7-1-04 | PKG 7 100% ROLL UP |

**HEIFER INTERNATIONAL CENTER OFFICE BUILDING**
LITTLE ROCK, ARKANSAS

PSY PROJECT NUMBER:
431C

CONTENTS:
**SITE UTILITIES DETAILS**

CERTIFICATE OF AUTH. McCLELLAND CONSULTING ENGINEERS INC. No. 24 ARKANSAS ENGINEER

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No.8810 MARK BYRON HICKS 7-1-04

ORIGINAL SIGNATURE ON FILE

SHEET NUMBER: C504 2/1