



Revision to
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 Prepared for
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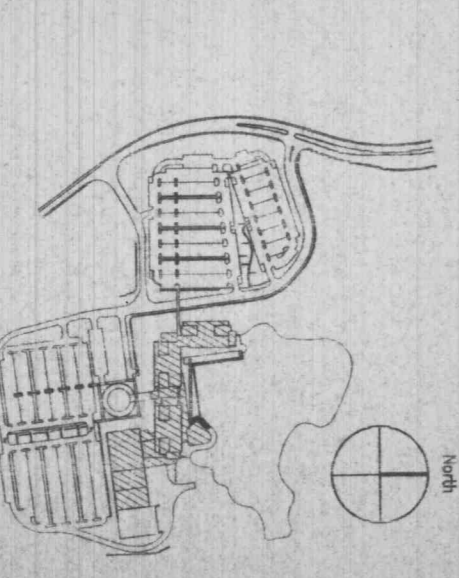
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CONSULTANT ABC

Issue # Date Description Rev. Qty

| Issue # | Date | Description | Rev. | Qty |
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| 1 | 10/15/99 | ISSUE FOR PERMIT | 1 | 1 |
| 2 | 11/10/99 | ISSUE FOR PERMIT | 1 | 1 |
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| Key | Item |
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| 1 | PROPOSED NILET |
| 2 | PROPOSED MANHOLE |
| 3 | PROPOSED FLARED END SECTION |
| 4 | PROPOSED NATURAL GAS |
| 5 | PROPOSED TELECOMMUNICATION |
| 6 | PROPOSED POWER |
| 7 | PROPOSED WATER |
| 8 | PROPOSED FIRE HYDRANT |
| 9 | PROPOSED STORM SEWER |
| 10 | PROPOSED SANITARY SEWER |
| 11 | P.O.C. POINT OF CONNECTION |
| 12 | PROPOSED FIRE WATER |



CONSTRUCTION DOCUMENT
 Date: 10/15/99 Project Code: DB 224
 Drawn: JMB Checked: SJS
 CAD File: C12.DWG
 Scale: 1" = 30'

SITE UTILITY PLAN
 SOUTHWEST
C.12

Drawing Number: **C.12**



LEGEND

| | | | |
|---|-----------------------------|---|-----------------------------|
| □ | SIGNEUX FEATURE TYPE XXX | ■ | PROPOSED NILET |
| □ | SIGNEUX FEATURE TYPE YYY | ● | PROPOSED MANHOLE |
| □ | SIGNEUX FEATURE TYPE ZZZ | ▽ | PROPOSED FLARED END SECTION |
| □ | SIGNEUX FEATURE TYPE ZZZ | — | PROPOSED NATURAL GAS |
| ○ | FEDERAL FEATURE TYPE | — | PROPOSED TELECOMMUNICATION |
| ○ | FEDERAL FEATURE TYPE | — | PROPOSED POWER |
| ○ | FEDERAL FEATURE TYPE | — | PROPOSED WATER |
| ○ | SIGNEUX FEATURE TYPE | — | PROPOSED FIRE HYDRANT |
| ○ | WALL SOURCE FEATURE TYPE | — | PROPOSED STORM SEWER |
| ○ | EXISTING POWER | — | PROPOSED SANITARY SEWER |
| ○ | EXISTING NATURAL GAS | — | P.O.C. POINT OF CONNECTION |
| ○ | EXISTING TELECOMMUNICATIONS | — | PROPOSED FIRE WATER |

Notes

- 1) All sewer construction shall comply with the City of O'Fallon, Waplevon, Duckett Creek Sanitary District, and Metropolitan St. Louis Sewer District Requirements, standards and specifications.
- 2) Electric and telecommunications lines shall be installed in a concrete encased ductbank.
- 3) All utilities shall be installed a minimum of 36 inches below finished grade to ensure frost protection.
- 4) Vertical 2 feet vertical separation between water and electric lines. Locate water main joints equidistant from crossing of electric ductbank (8 to 10 feet).
- 5) Inverts of all storm sewers discharging into the lake shall be at elevation 533.00.
- 6) Storm sewers shall be reinforced concrete, complying with ASTM C-76, wall "B". Joints shall be rubber-type gaskets conforming to ASTM C-443.
- 7) Sanitary sewers shall be vitrified clay pipe (ASTM C-700, extra strength, with joints conforming to ASTM C-425), or polyvinyl chloride (PVC), conforming to ASTM D-3034, SDR = 35. Joints shall meet ASTM D-3272.
- 8) Water mains shall be ductile-iron, mechanical-joint or push-on joint pipe, complying with AWWA C-900, cement-mortar lining and sealed to AWWA C111 or C104, include grom, rubber gasket, and caps conforming to AWWA C111 or PVC Plastic, Fire-Safe Pipe, UL 1285 and AWWA C900. Include electrician seal according to ASTM F-477.
- 9) Fire hydrants shall be dry barrel-type complying with AWWA C-502. Threads and color to match requirements of local fire department.
- 10) Gate valves shall comply with AWWA C-500, and shall be installed with an adjustable voice box with lid (traffic rated).
- 11) Contractor shall furnish and install domestic meter vault, piping and valves; meter will be supplied by water district at owner's expense.