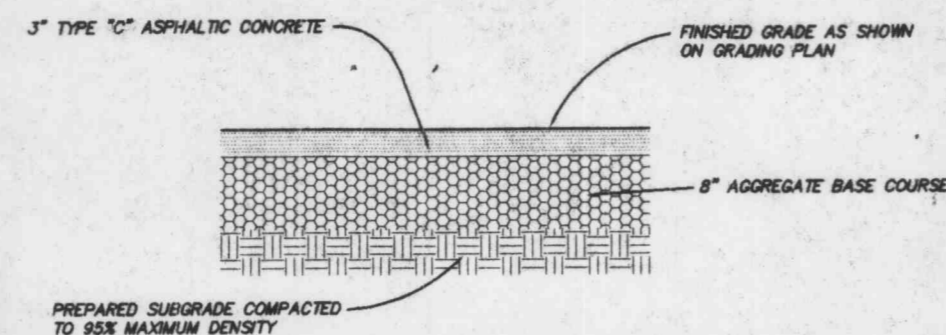
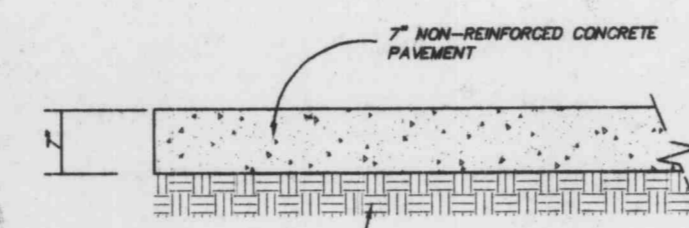


CITY OF O'FALLON GENERAL NOTES

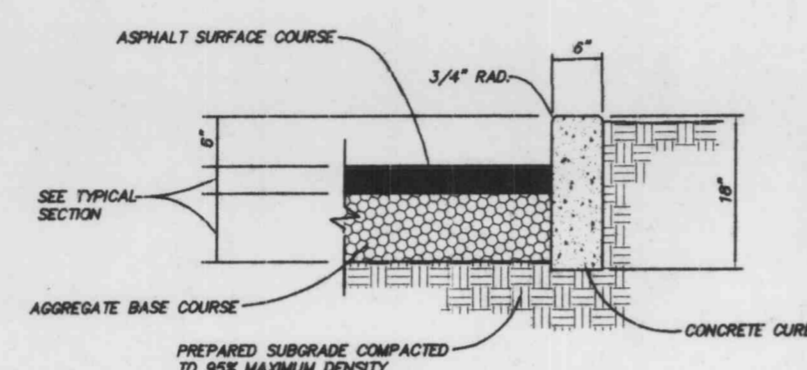
- Gas, water and other underground utilities shall not conflict with the depth or horizontal locations of existing and proposed sanitary and storm sewers, including house laterals.
- Underground utilities have been plotted from available information and therefore, their locations must be considered approximate only. The verification of the location of all underground utilities, either shown or not shown on these plans, shall be the responsibility of the contractor and shall be located prior to grading or construction of improvements.
- Polyvinyl Chloride (PVC) shall conform to the requirements of ASTM D-3034 Standard Specifications for the FSR Polyvinyl Chloride (PVC) Sewer Pipe and Fittings, SDR-35.
- Storm sewers 18" in diameter or smaller shall be ASTM C-14.
- Storm sewers 21" in diameter or larger shall be ASTM C-76, Class II.
- All storm sewer pipe under pavement, regardless of size, shall be reinforced concrete pipe (ASTM C-76, Class II) unless noted otherwise in the plans.
- Corrugated metal pipe shall conform to the standard specifications for corrugated culvert pipe M-36, A.A.S.H.T.O. See plans for gauge.
- All filled places under buildings, proposed sanitary and storm sewer lines, and/or paved areas including trench backfills shall be compacted to 90% of maximum density as determined by the "Modified A.A.S.H.T.O. T-180 Compaction Test" (ASTM D-1557) unless otherwise specified by the local governing authority specifications. All tests will be verified by a soils engineer.
- All earthen filled places within State, County, or City roads (Highways) shall be compacted to 95% of maximum density as determined by the "Standard Proctor Test A.A.S.H.T.O. T-99" (ASTM D-698) unless otherwise specified by local governing authority specifications. All tests will be verified by a soils engineer.
- All storm and sanitary trench backfills shall be water jetted. Granular fill will be used under paved areas.
- Easements shall be provided for storm sewers, sanitary sewers, and utilities on the record plat. See record plat for location and size of easements. This does not apply to house laterals.
- No area shall be cleared without the permission of the developer.
- All grades shall be within 0.2 feet (more or less) of those shown on the grading plan.
- No slope shall be greater than 3:1 and shall be either sodded or seeded and mulched.
- Hazard markers will consist of three (3) standard specification, "Manual on Uniform Traffic Control Devices," end of roadway markers mounted on two (2) pound "1" channel sign post. Each marker shall consist of an eighteen (18) inch diamond reflectorized red panel. The bottom of each panel shall be mounted a minimum of four (4) feet above the elevation of the pavement surface.
- All manhole and curb inlet tops built without elevations furnished by the Engineer will be the responsibility of the sewer contractor. At the time of construction stake-out of the sewer lines, all curbs and grate inlets will be face staked. If normal face stakes fall in line with sewer construction, the Engineer will set these stakes on a double offset. It shall be the responsibility of the sewer contractor to preserve all face stakes from destruction.
- All standard street curb inlets to have front of inlet 2 feet behind curb.
- The minimum vertical distance from the low point of the basement to the flowline of a sanitary sewer at the corresponding house connection shall not be less than the diameter of the sanitary sewer plus a vertical distance not less than two and one-half feet (2-1/2').
- Water lines, valves, sleeves, meters and etc., shall meet all specifications and installation requirements of the local governing authority.
- All cast iron pipe for water mains shall conform to A.W.W.A. specification C-106 and/or C-108. The cast iron fittings shall conform to A.W.W.A. specification C-110. All rubber gasket joints for water cast iron pressure pipe and fittings shall conform to A.W.W.A. specification C-111.
- All water hydrants and valves shall be cast iron and installed in accordance with plans and details.
- All sanitary and storm sewers shall meet all specifications and installation requirements of the local governing authority.
- All PVC water pipe shall have a minimum pressure rating of PR-200 or SDR-21.
- All PVC sanitary sewer pipe shall be DR-35 or equal with crushed stone bedding uniformly graded between 1" and 1/4" size. This bedding shall extend from 6" below the pipe to 12" above the top of the pipe.
- All grading on Missouri State Highway Right-of-Way shall be seeded and mulched and all disturbed Right-of-Way markers shall be reset at the completion of grading.
- All streets must meet the specifications and installation requirements of the City of O'Fallon.
- All sanitary manholes top shall be set 0.2' higher than the proposed ground except in pavement areas.
- All sanitary manholes shall have a 31 mil thick coat of coal tar pitch waterproofing.
- All sanitary service lines shall have a 6" diameter for Multi-family and a 4" diameter for single-family developments.
- Manhole frame and cover shall be Clay and Bailey No. 2008 or Neenah R-1736 or Deeter 1315 or approved equal.
- A drop of 0.2 feet is required through each sanitary manhole.
- The City of O'Fallon shall be notified at least 48 hours prior to construction of sanitary sewers for coordination and inspection.
- Brick shall not be used on manholes.
- Sewer contractor shall maintain 24" vertical separation between all storm sewers and the sludge force main. Contractor shall be responsible for verifying separation prior to storm sewer installation.
- Waterproofing: Waterproofing will be required on the exterior of all manholes. The bitumen shall consist of two coats of asphalt, coal-tar pitch, or a coating meeting American Society for Testing and Materials (ASTM) D-41. Asphalt shall conform to the requirements of ASTM D-449. Coal-tar pitch shall conform to the requirements of ASTM D-450. Coating shall be 31 mils thickness.
- NOTE: The grading and elevations shown on the grading plans are for construction purposes only. Finished grades and slopes will vary from those shown on the plans depending upon the location, size and type of house built on the lot. However, cars should be taken to insure that finished grading conforms to drainage area maps.



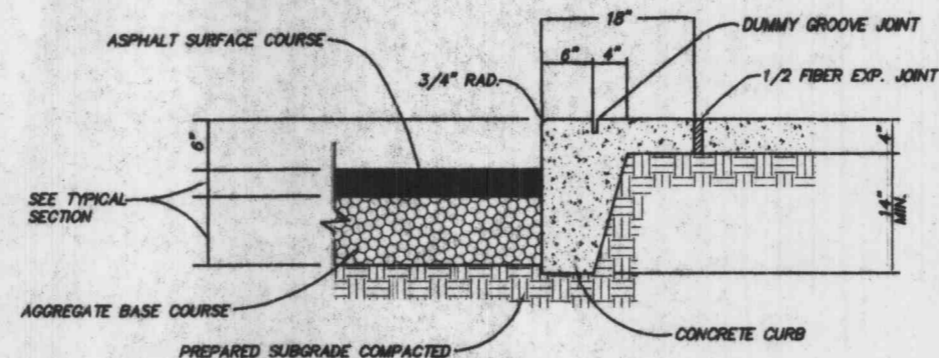
TYPICAL PAVEMENT SECTION



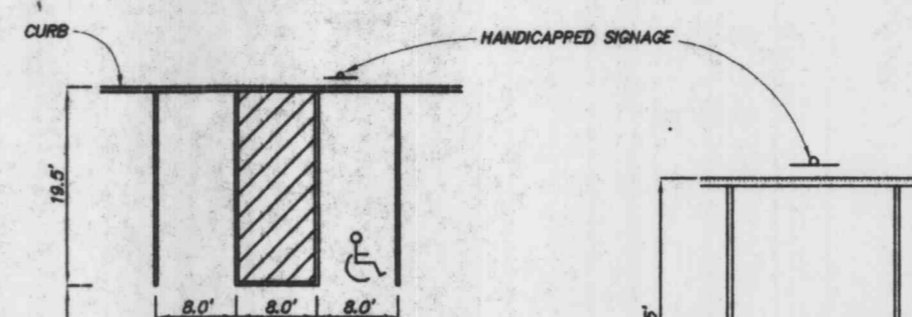
CONCRETE PAVEMENT DETAIL



6" VERTICAL CONCRETE CURB



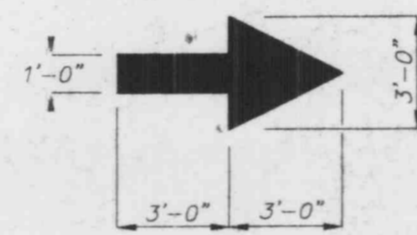
6" CONCRETE CURB WITH SIDEWALK



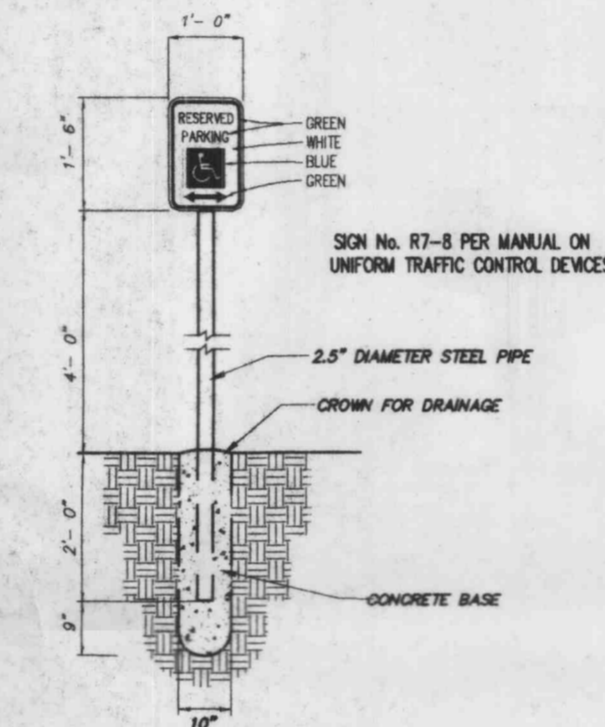
TYPICAL PARKING DIMENSIONS



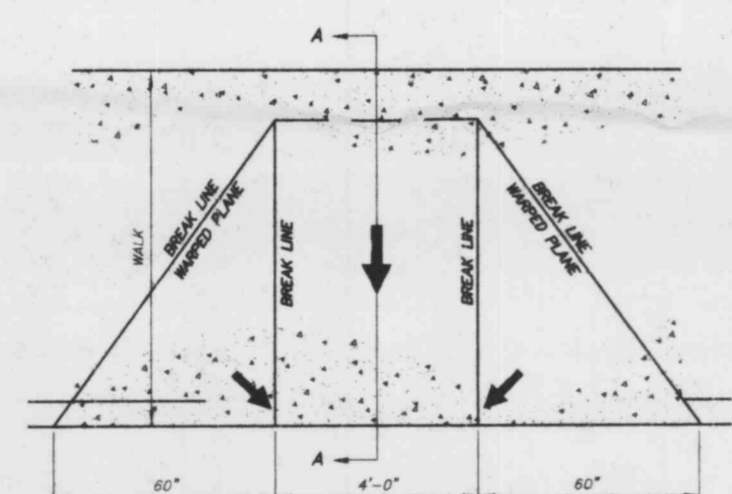
HANDICAPPED PARKING MARKING



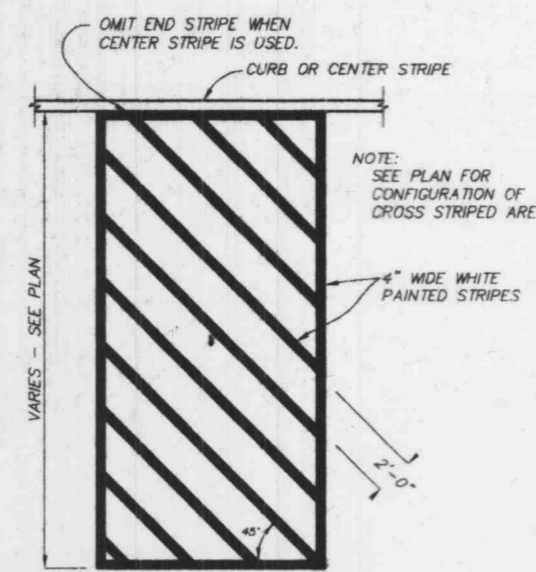
PAINTED DIRECTIONAL ARROW



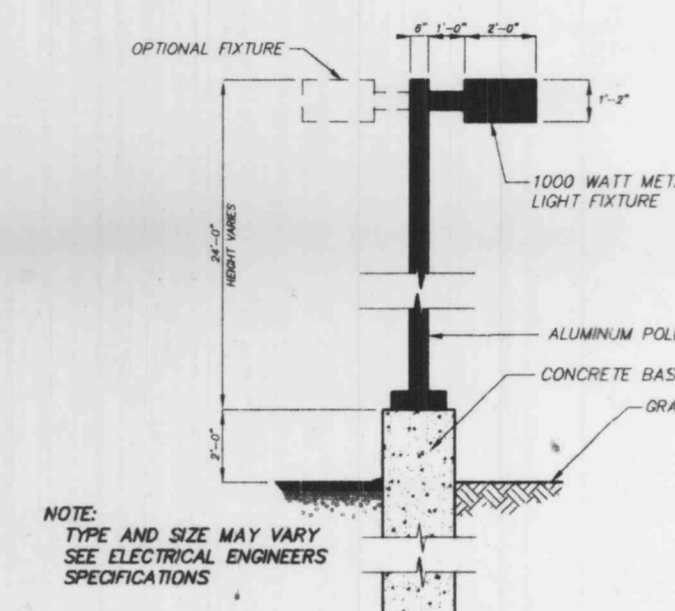
HANDICAPPED SIGN DETAIL



STRAIGHT CURB HANDICAPPED RAMP DETAIL



CROSS STRIPING DETAIL

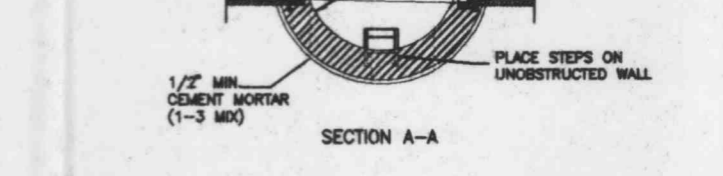
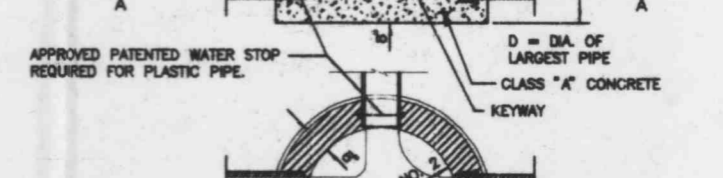
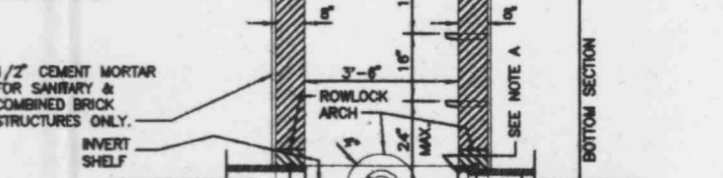
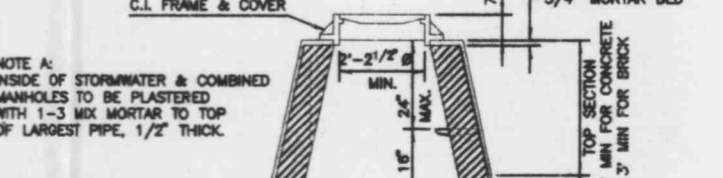
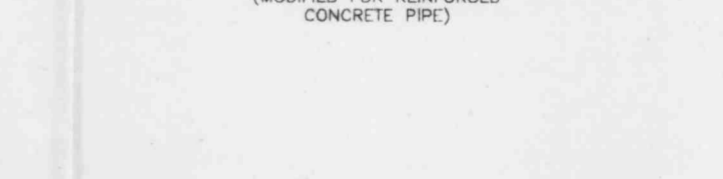
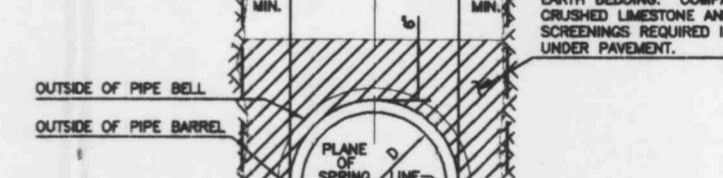
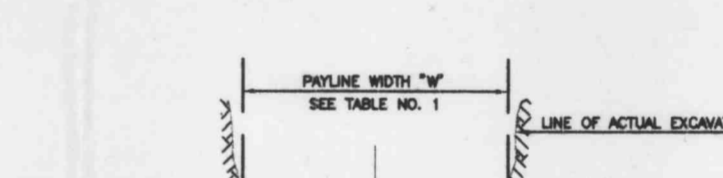
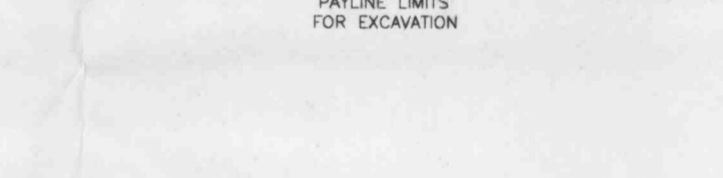
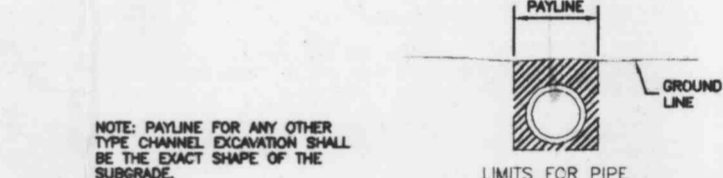
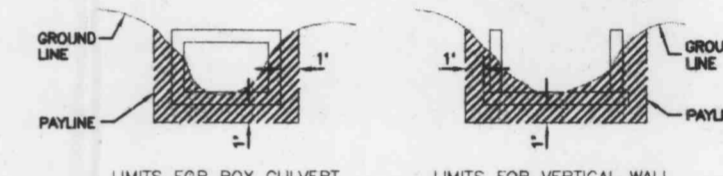
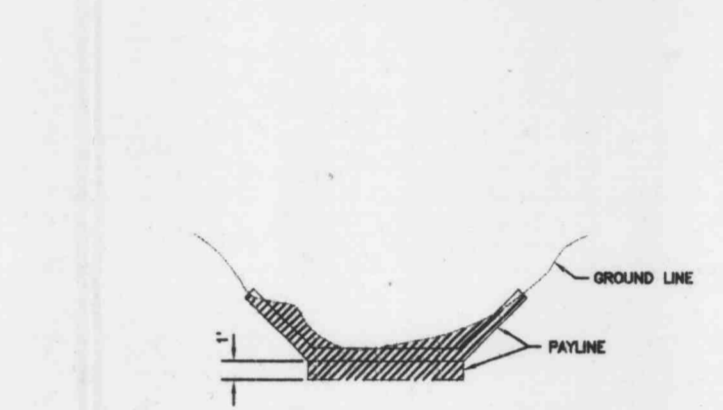


LIGHT POLE DETAIL

ROUND PIPE		HORIZONTAL ELLIPTICAL PIPE	
Inch Diameter of Pipe (Inches)	Per A. Per Ft. of Pipe (Inches)	Inch Diameter of Pipe (Inches)	Per A. Per Ft. of Pipe (Inches)
4	2.33	3.20	
6	2.33	3.48	
8	2.33	3.70	
10	2.33	3.88	
12	2.33	3.98	
15	2.67	4.28	
18	2.92	4.53	14 X 23
21	3.25	4.81	14 X 33
24	4.00	5.28	18 X 30
27	4.50	5.70	18 X 34
30	4.90	6.00	24 X 38
33	5.40	6.30	27 X 42
36	5.80	6.50	27 X 45
39	6.30	6.80	30 X 48
42	6.80	7.20	34 X 53
45	7.30	7.50	36 X 57
48	7.80	7.80	36 X 60
51	8.30	8.10	42 X 66
54	8.80	8.40	42 X 72
57	9.30	8.70	42 X 78
60	9.80	9.00	48 X 84
63	10.30	9.30	48 X 90
66	10.80	9.60	48 X 96
69	11.30	9.90	54 X 102
72	11.80	10.20	54 X 108
75	12.30	10.50	54 X 114
78	12.80	10.80	60 X 120
81	13.30	11.10	60 X 126
84	13.80	11.40	60 X 132
87	14.30	11.70	66 X 138
90	14.80	12.00	66 X 144
93	15.30	12.30	66 X 150
96	15.80	12.60	72 X 156
99	16.30	12.90	72 X 162
102	16.80	13.20	72 X 168
105	17.30	13.50	78 X 174
108	17.80	13.80	78 X 180
111	18.30	14.10	78 X 186
114	18.80	14.40	84 X 192
117	19.30	14.70	84 X 198
120	19.80	15.00	84 X 204
123	20.30	15.30	90 X 210
126	20.80	15.60	90 X 216
129	21.30	15.90	90 X 222
132	21.80	16.20	96 X 228
135	22.30	16.50	96 X 234
138	22.80	16.80	96 X 240
141	23.30	17.10	102 X 246
144	23.80	17.40	102 X 252

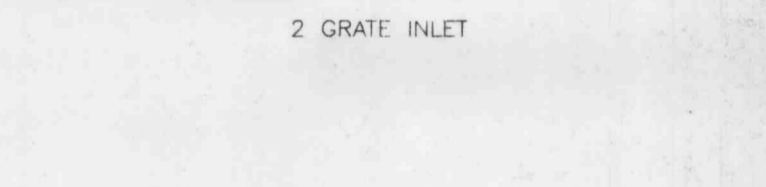
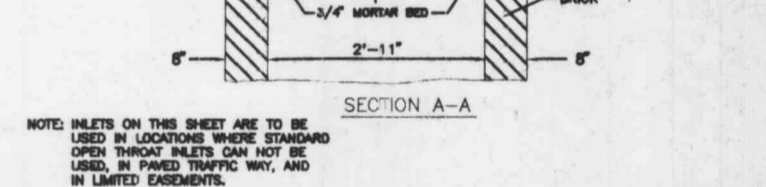
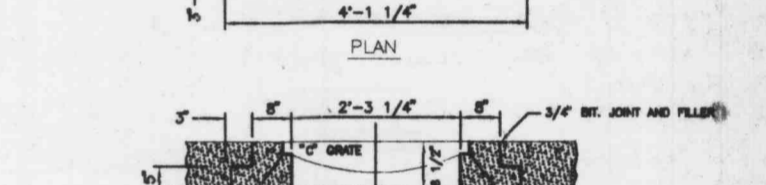
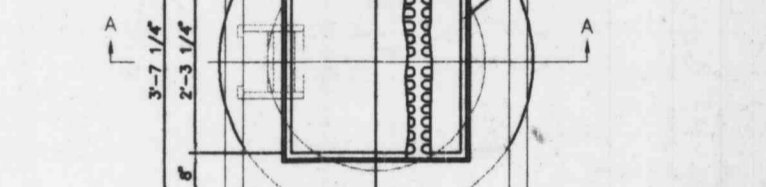
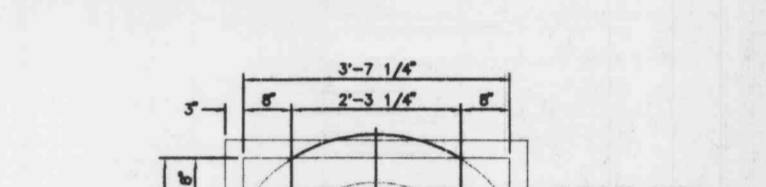
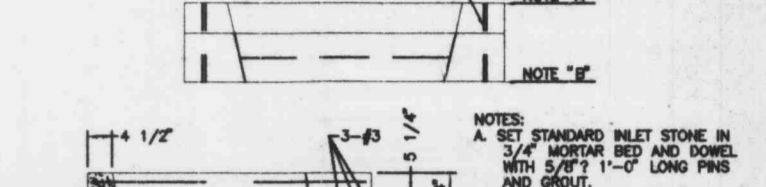
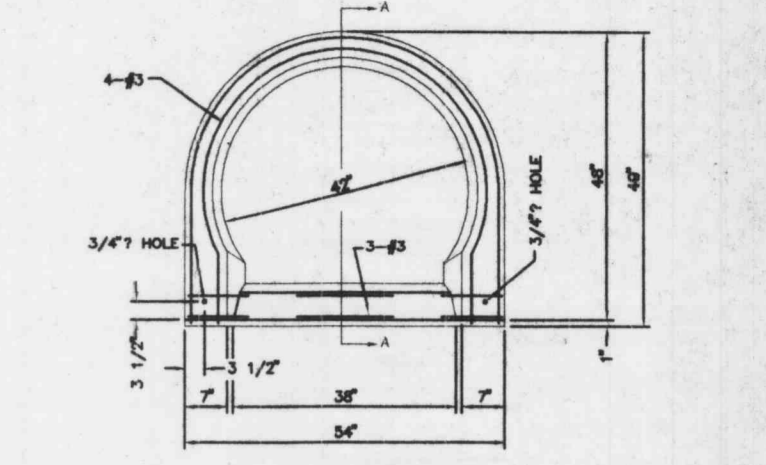
TABLE NO. 1

PAVING WIDTHS OF TRENCH AND PAY-QUANTITIES OF CONCRETE



MANHOLE DETAIL

DOBBS
OUTLOT 2 OF DEER CREEK CROSSING
CONSTRUCTION DETAILS & SEWER PROFILES
FEBRUARY, 1998 95-0807
2-18-98 REVISED PER GREYSTONE CONSTRUCTION
2-25-98 REVISED PER CITY OF O'FALLON



SECTION A-A

