

ROUND PIPE	HORIZONTAL OBLIQUE PIPE
Inch Diameter (Nominal)	Inch Diameter (Nominal)
6	8
8	10
10	12
12	15
15	18
18	21
21	24
24	30
30	36
36	42
42	48
48	54
54	60
60	66
66	72
72	78
78	84
84	90
90	96
96	102
102	108
108	114
114	120
120	126
126	132
132	138
138	144
144	150

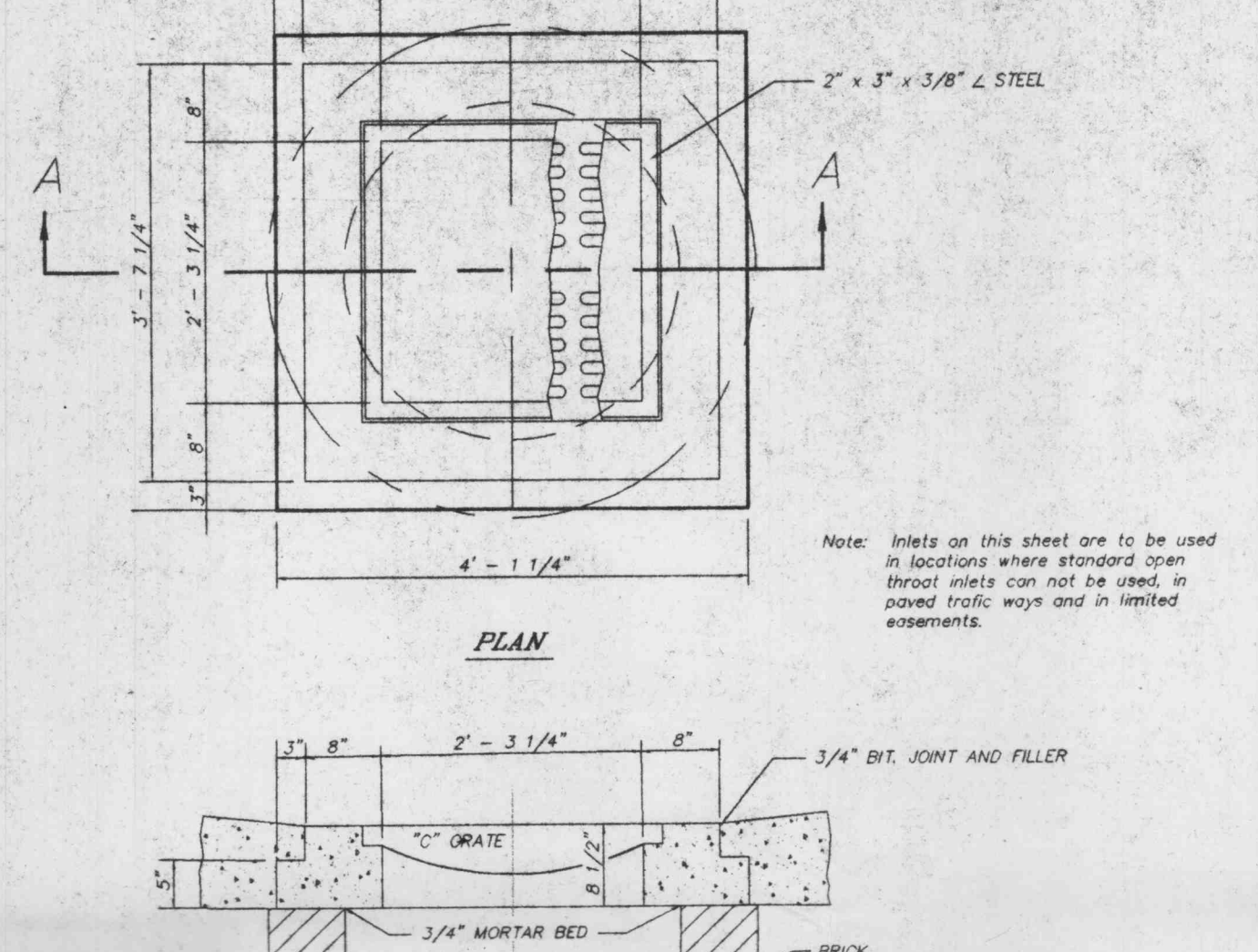
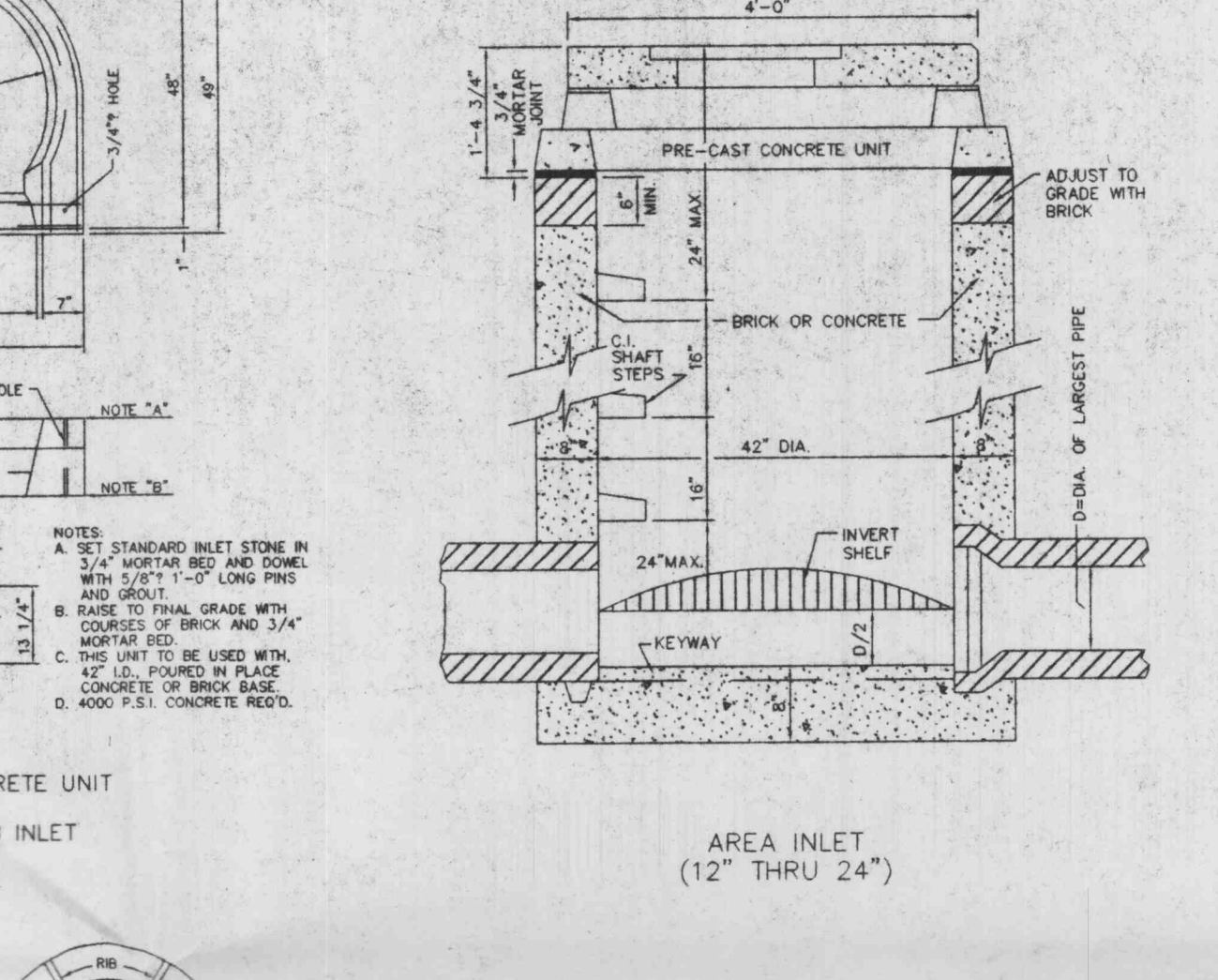
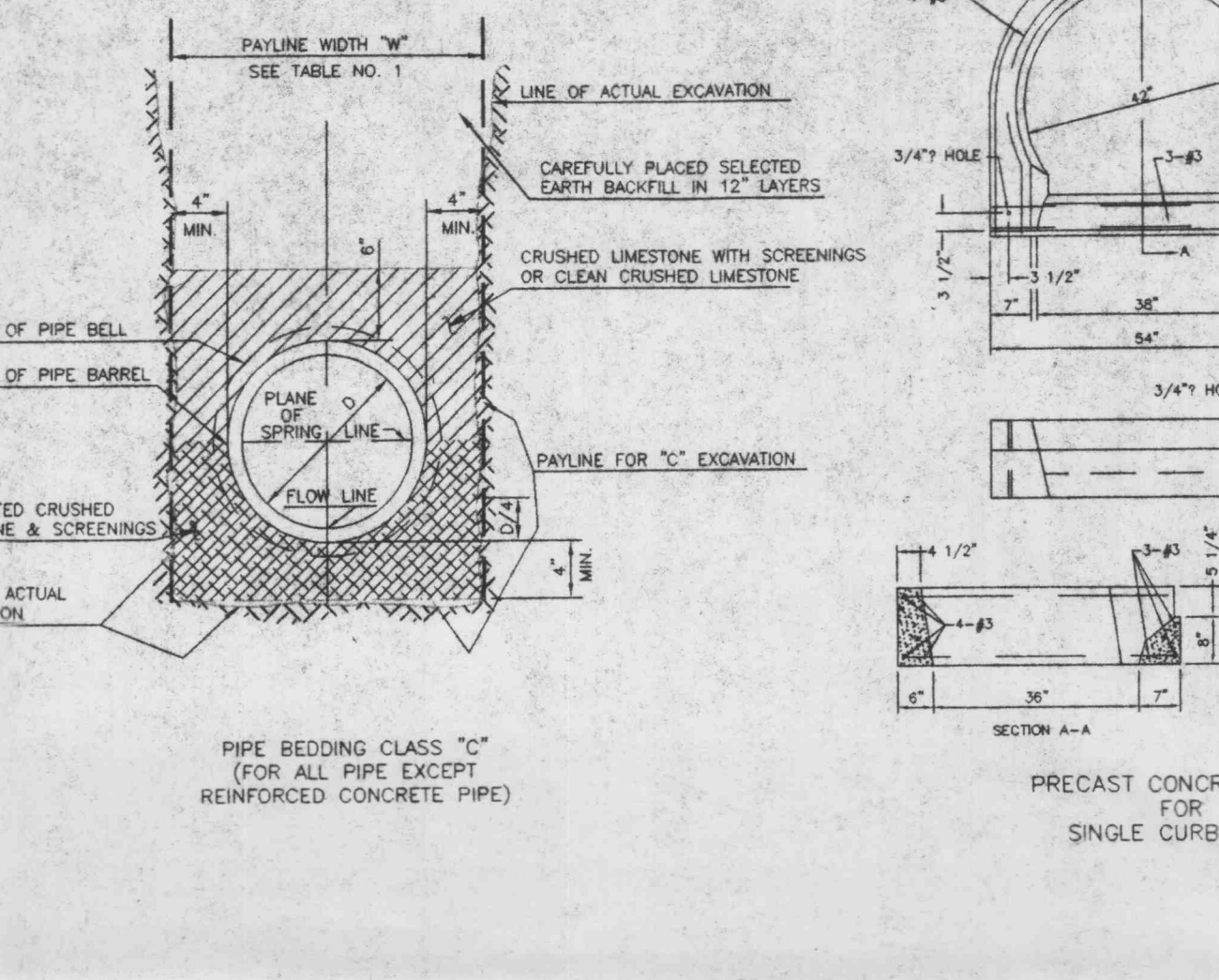
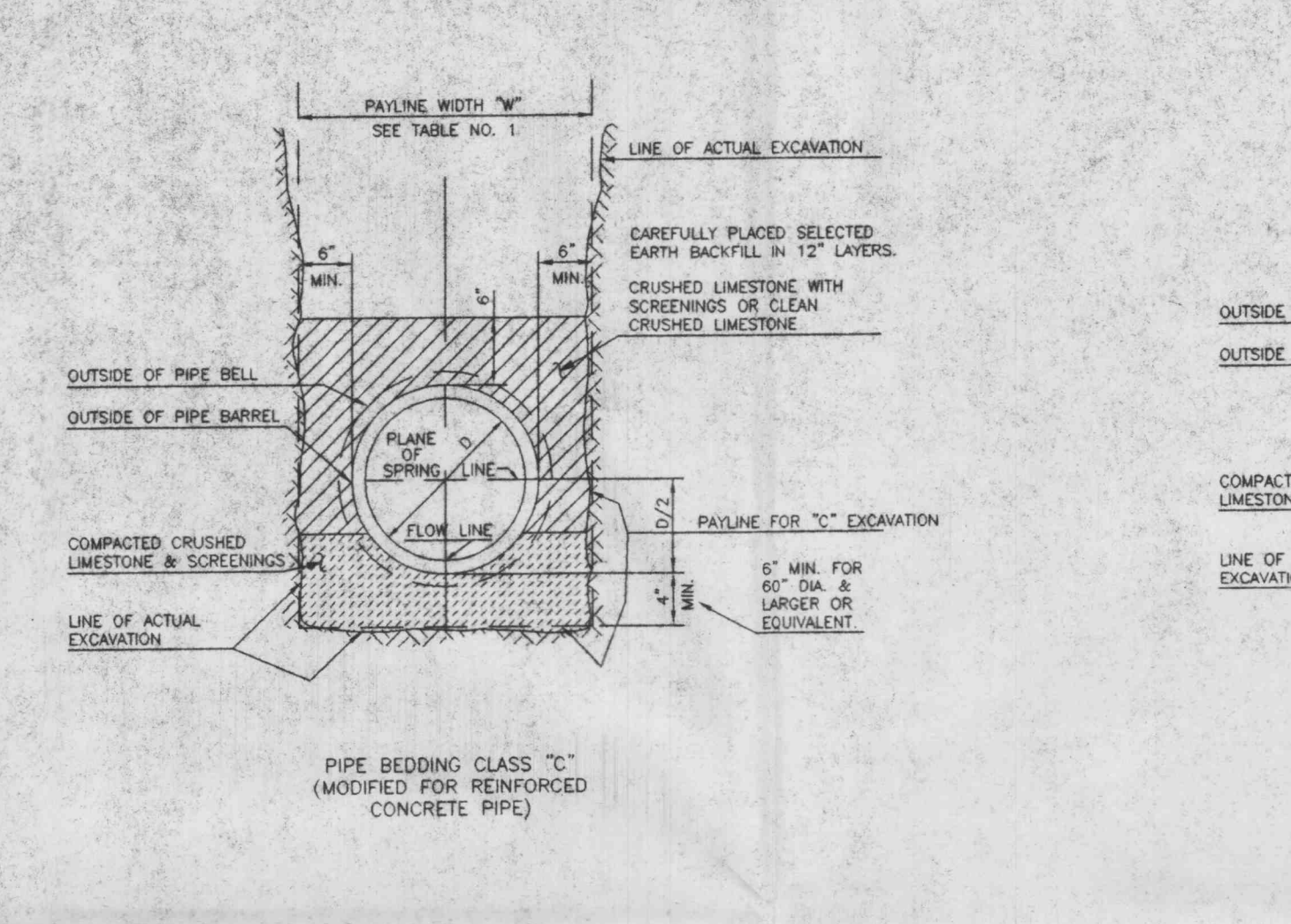
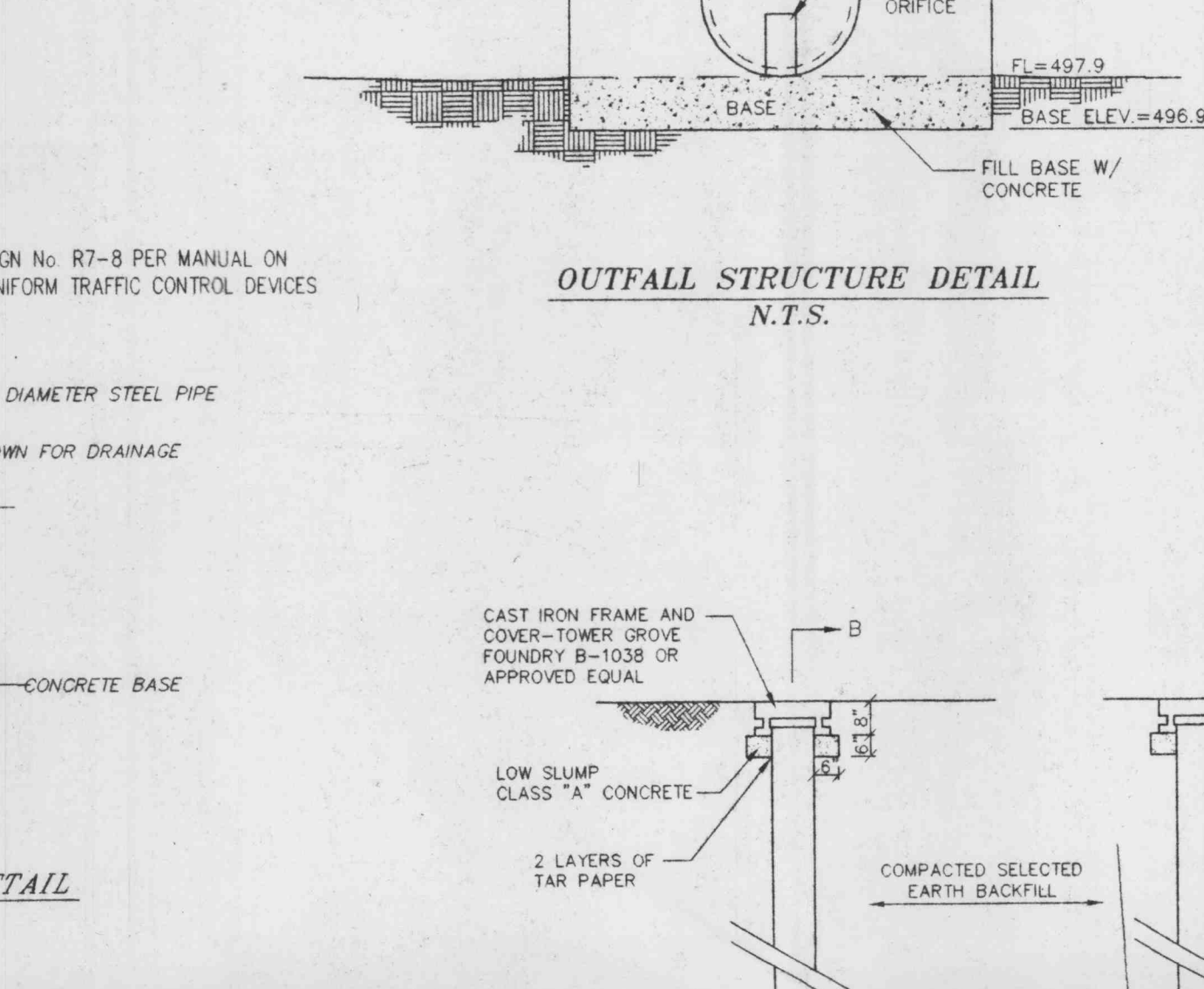
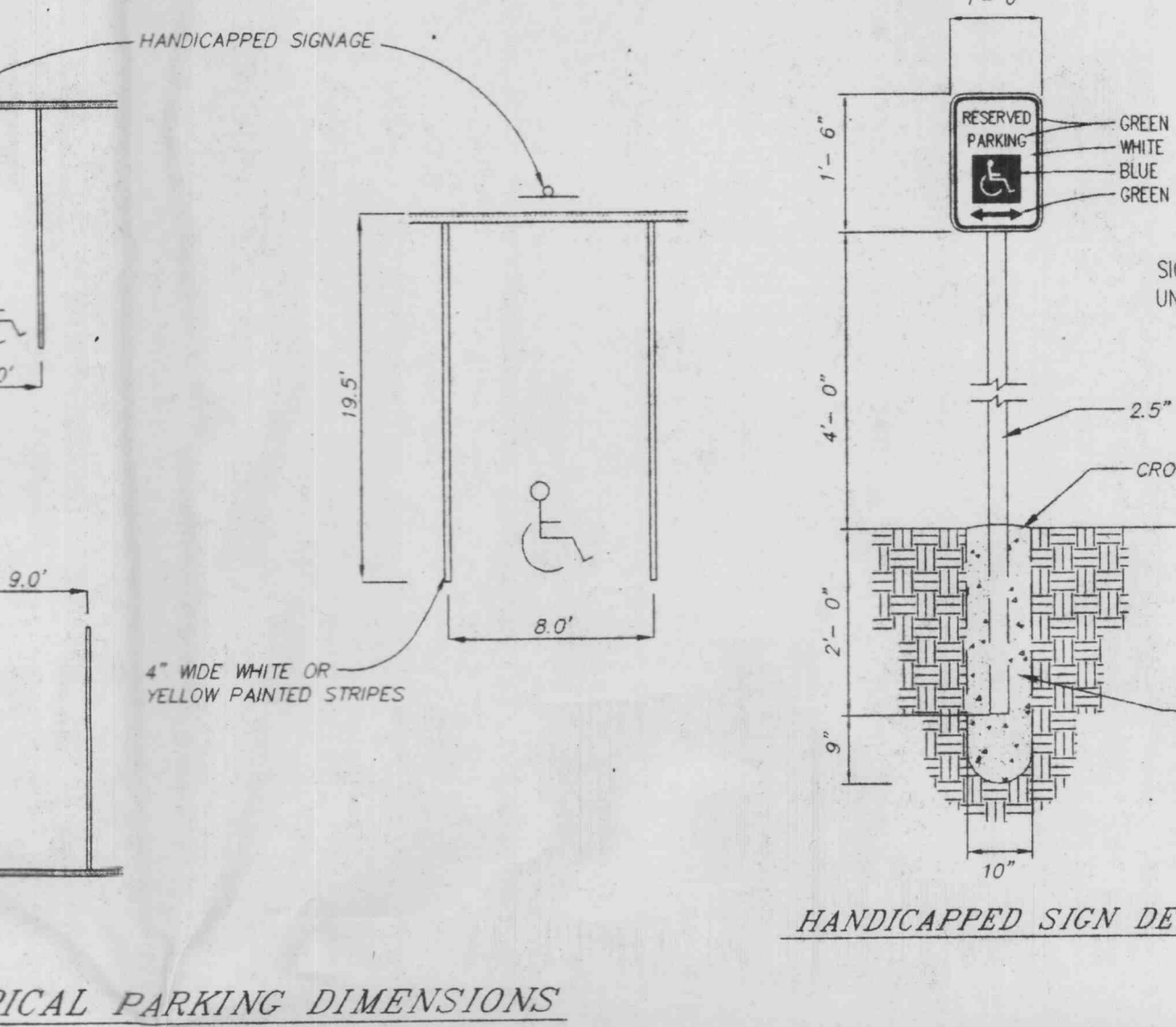
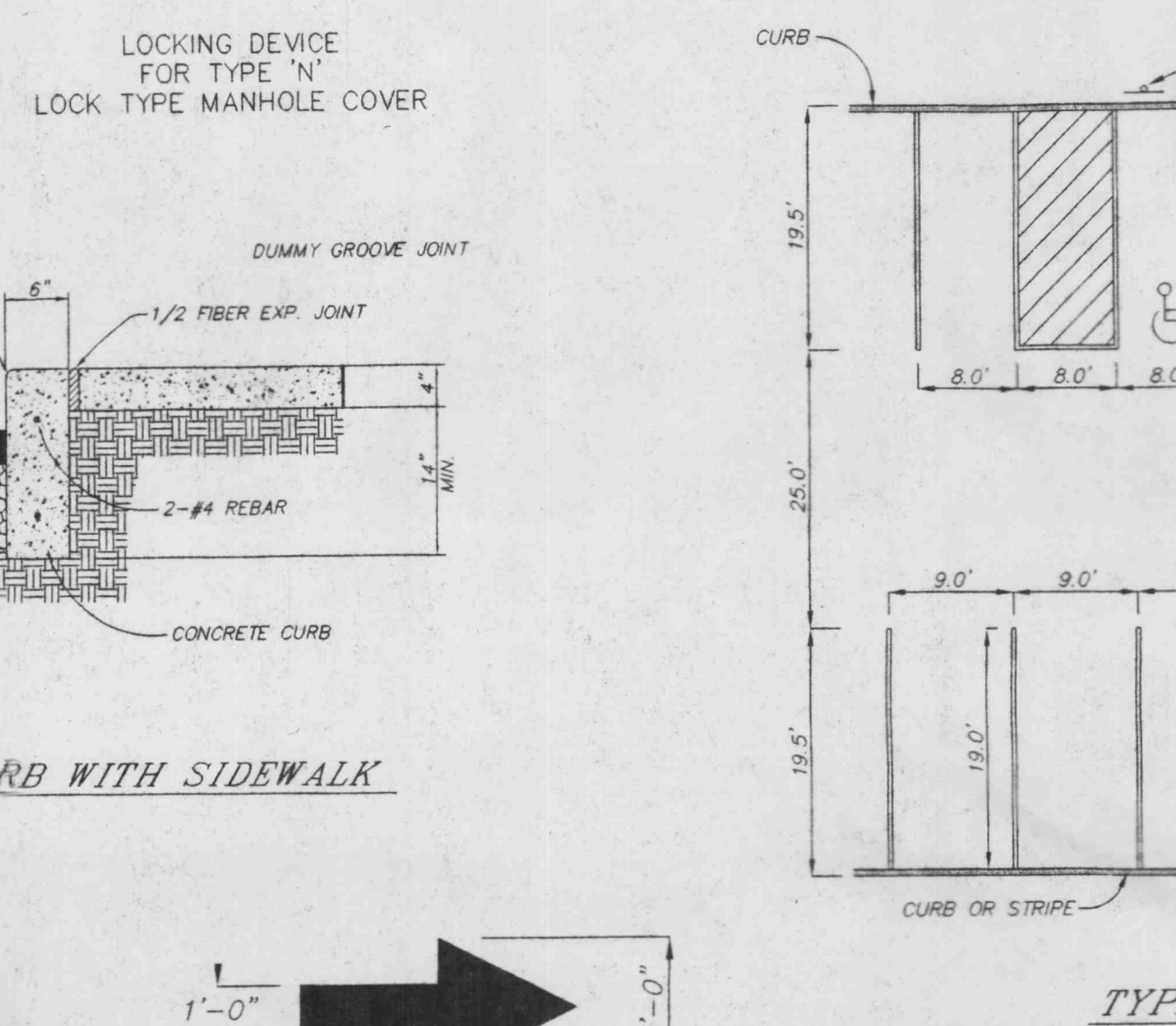
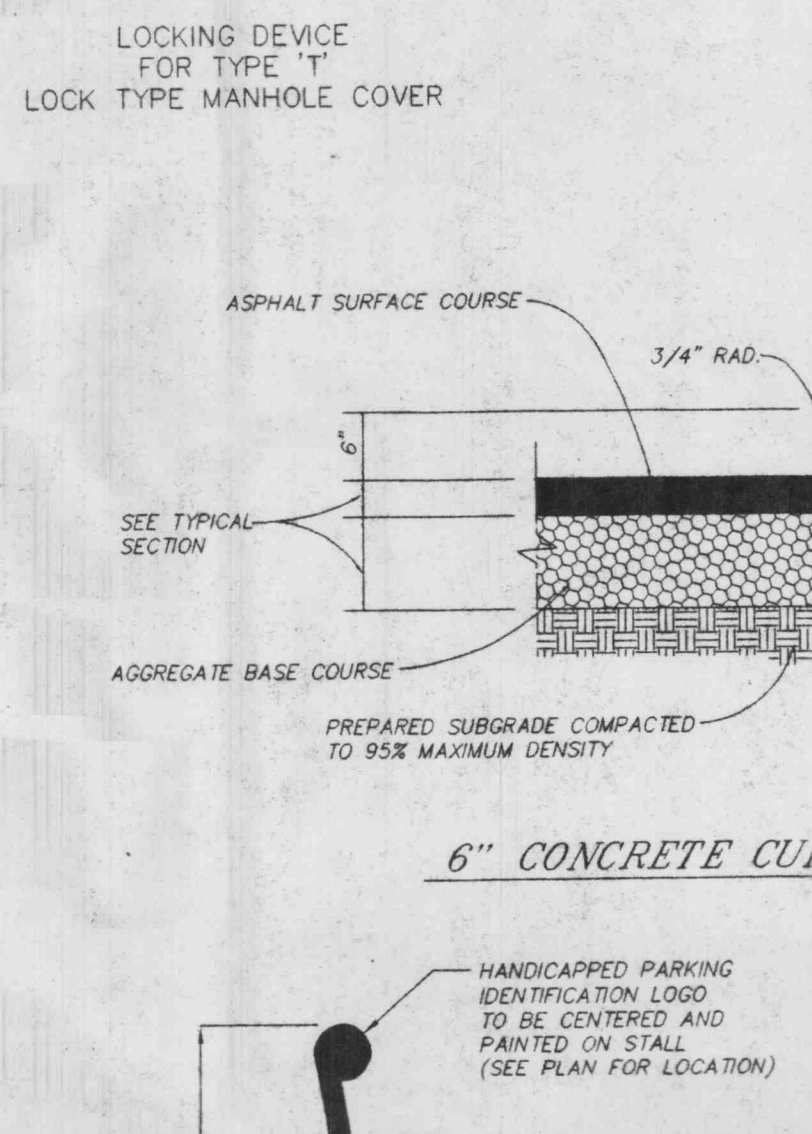
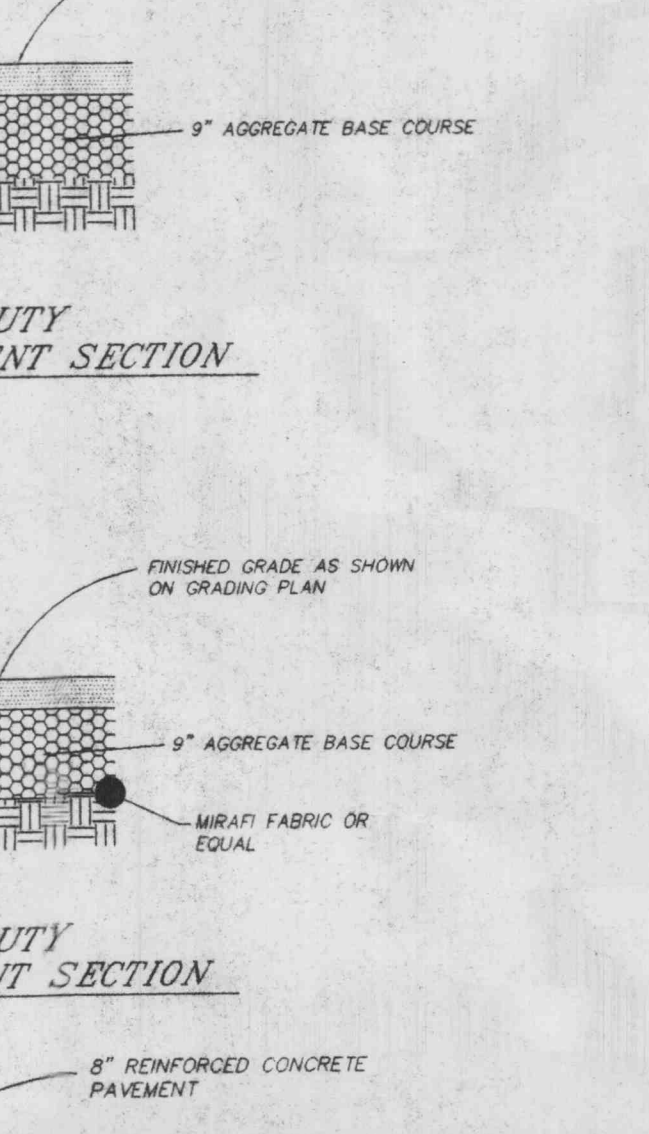
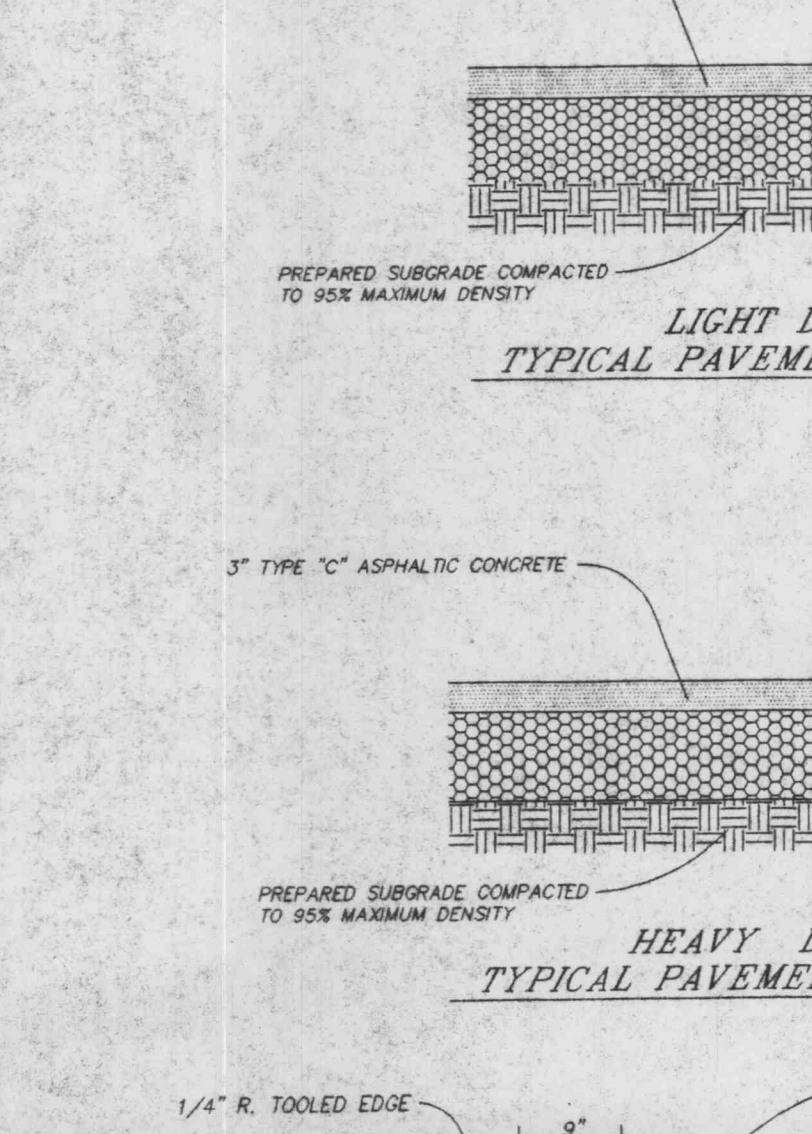
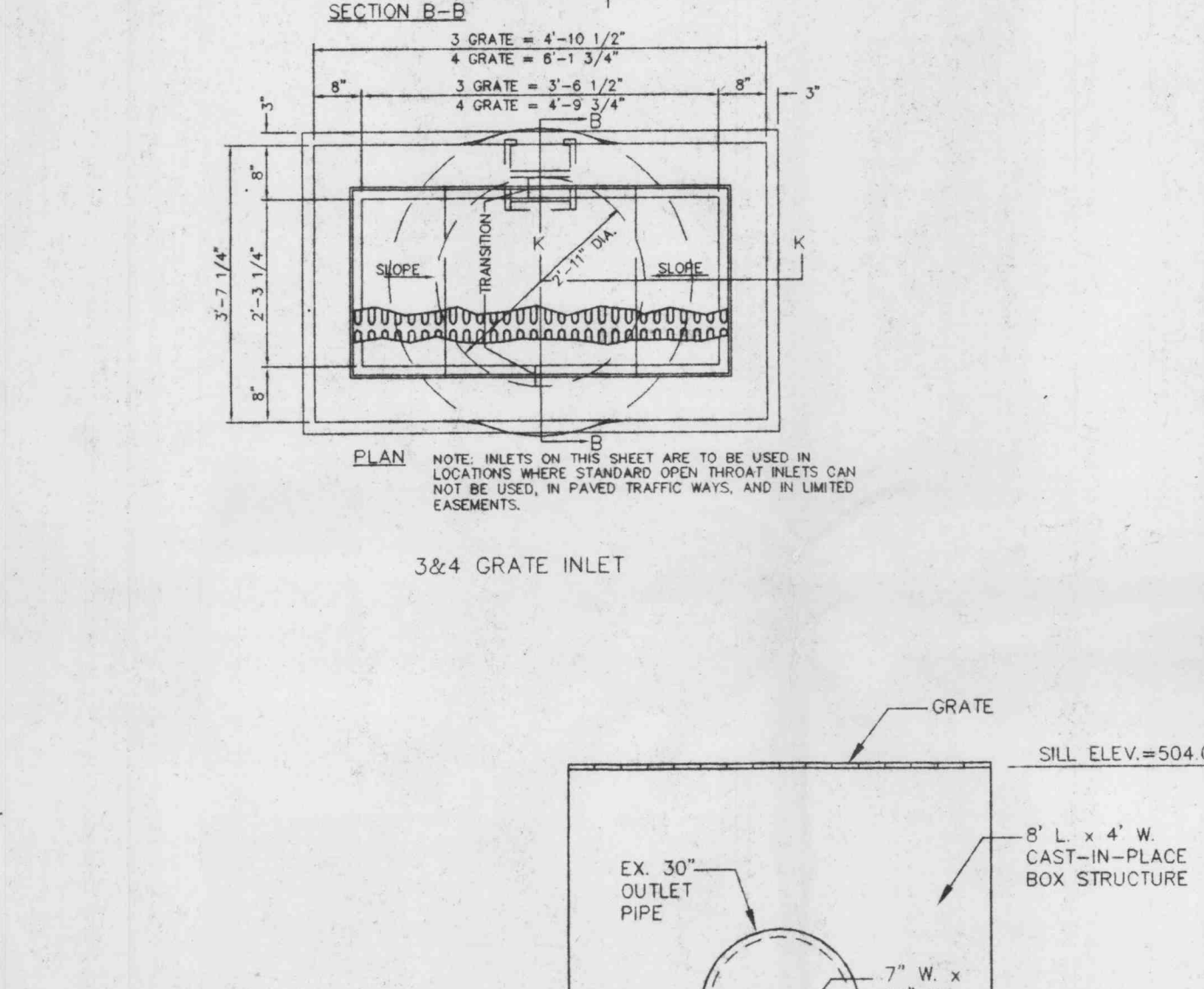
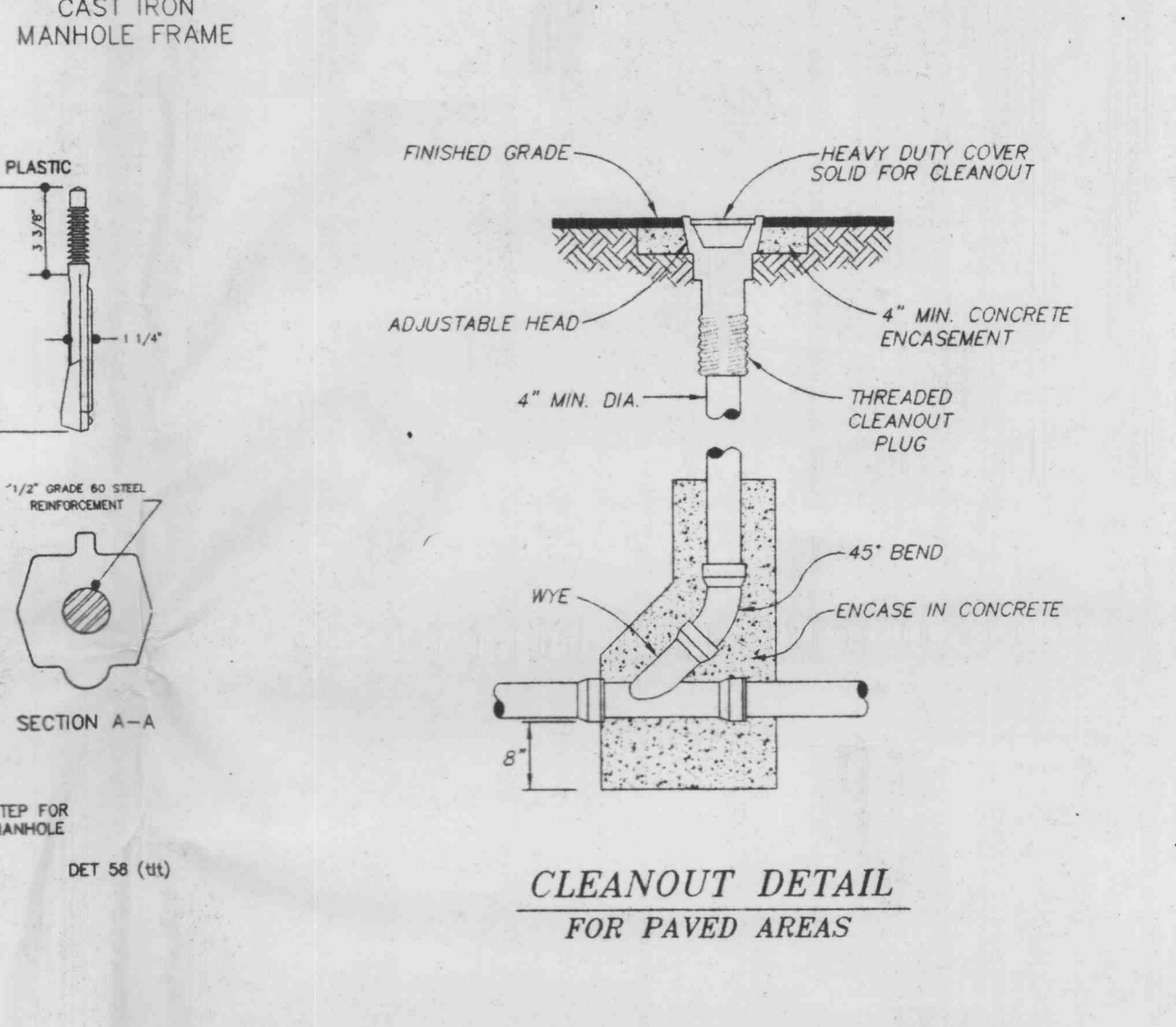
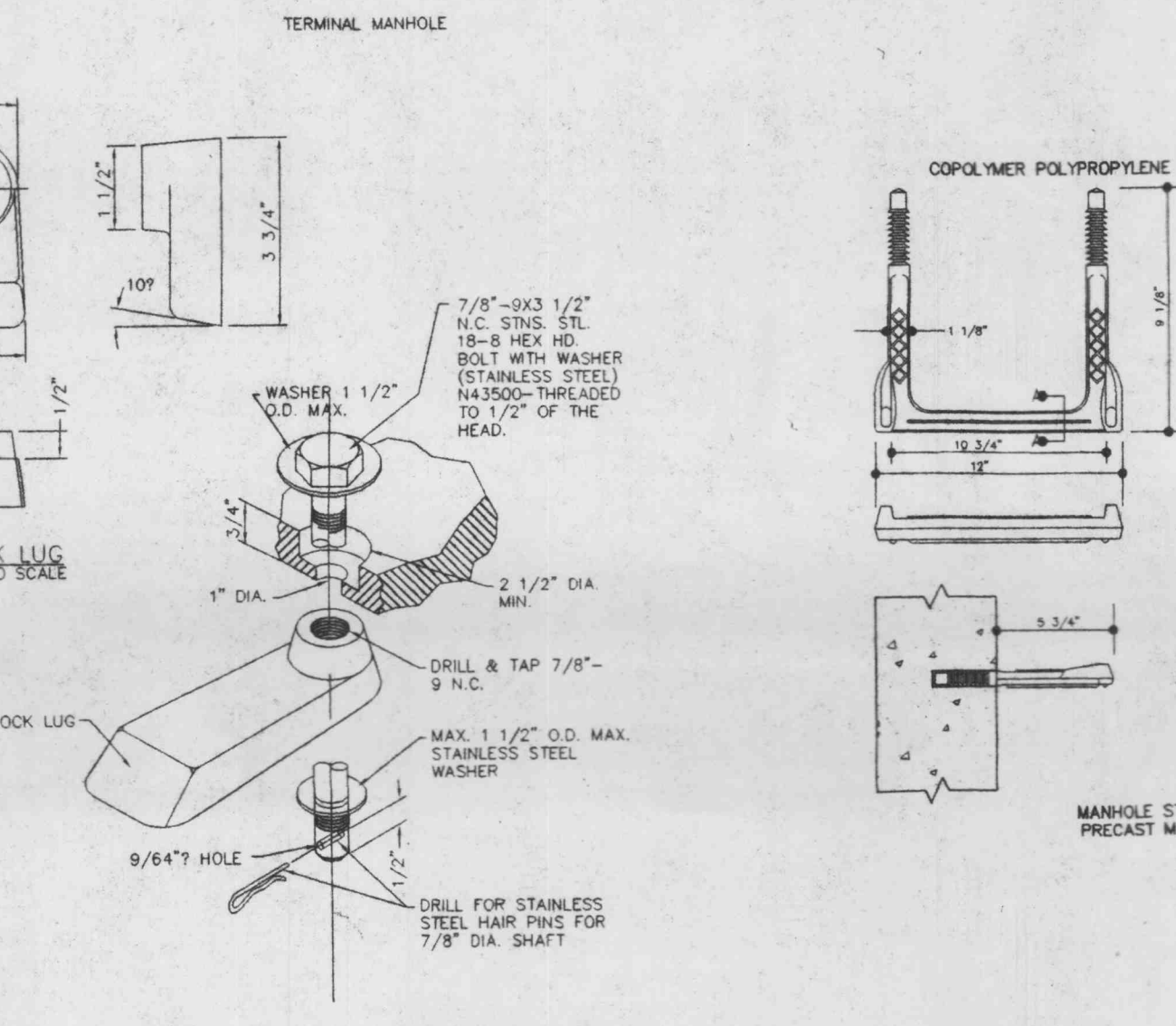
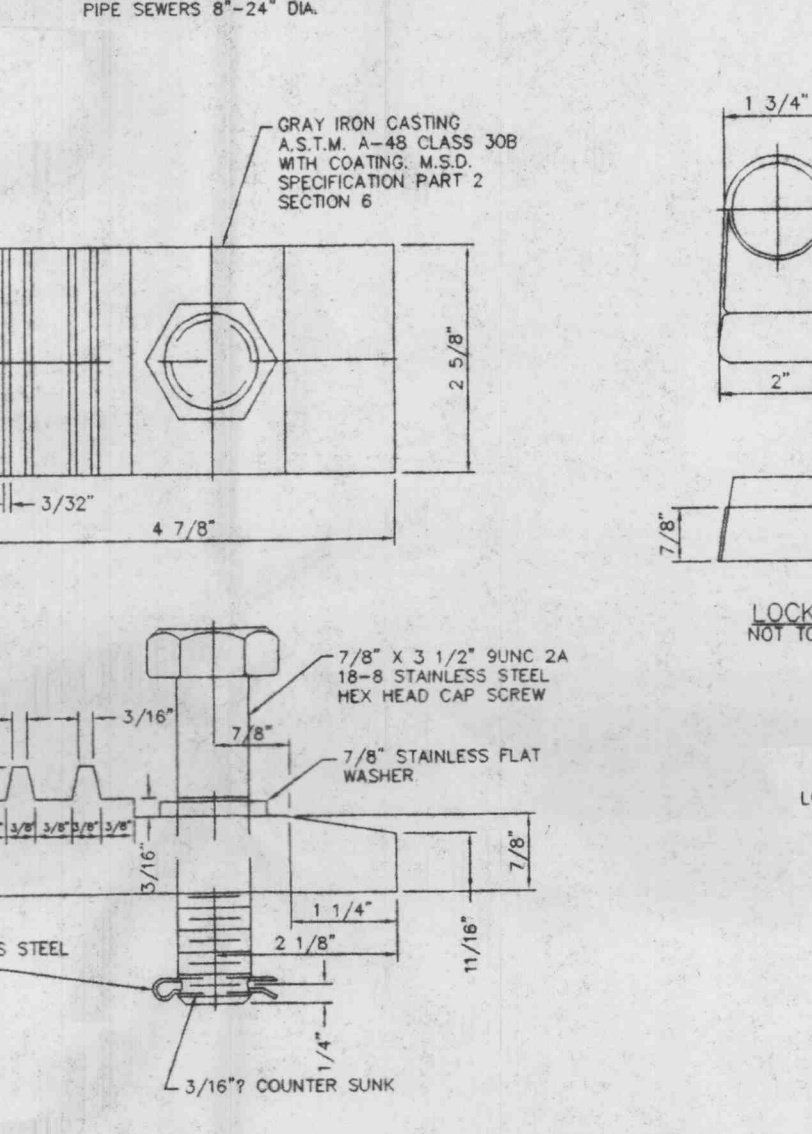
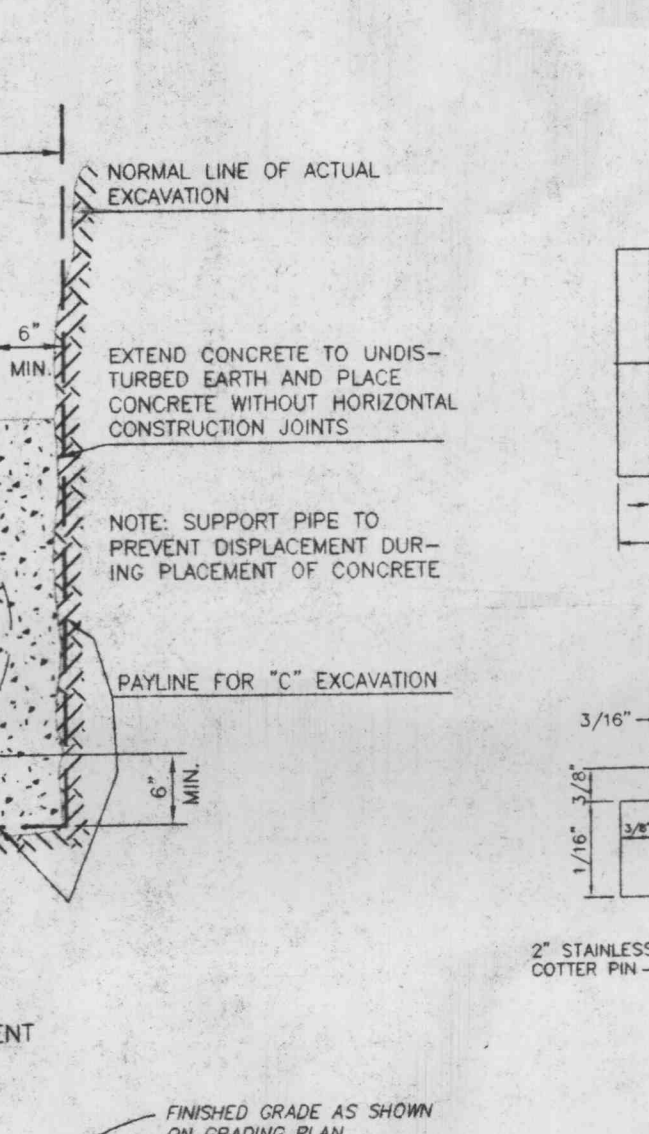
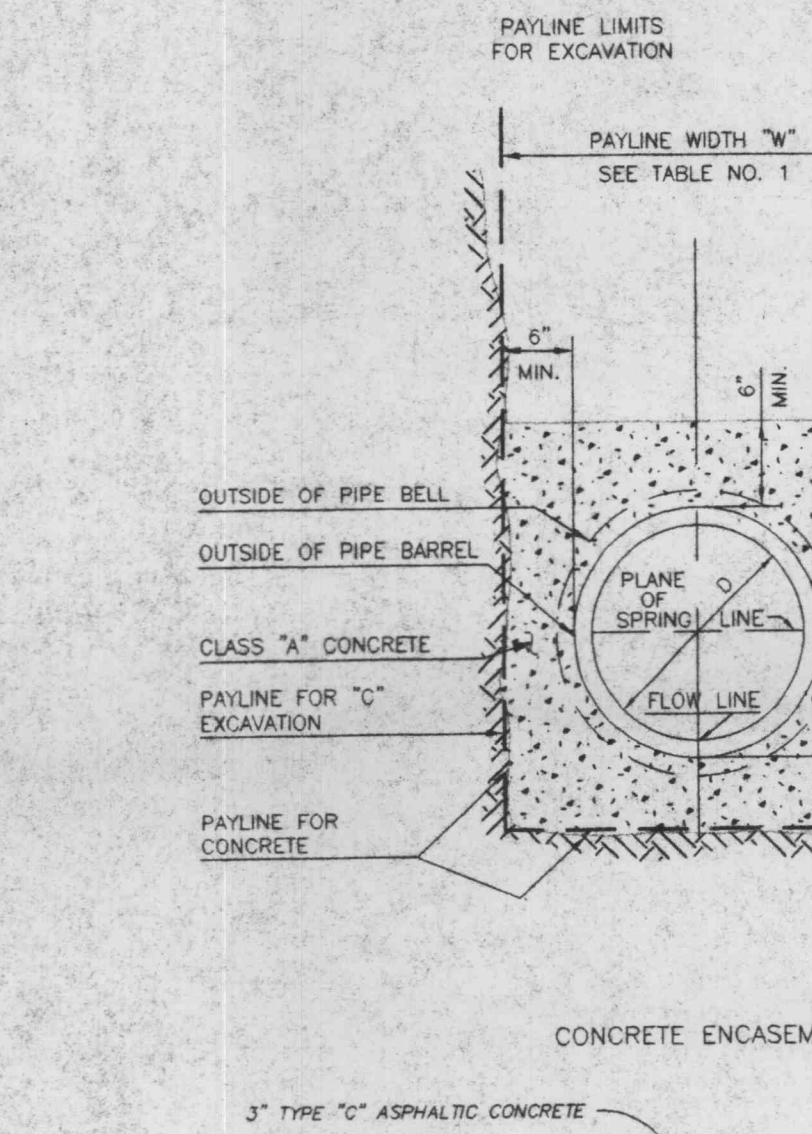
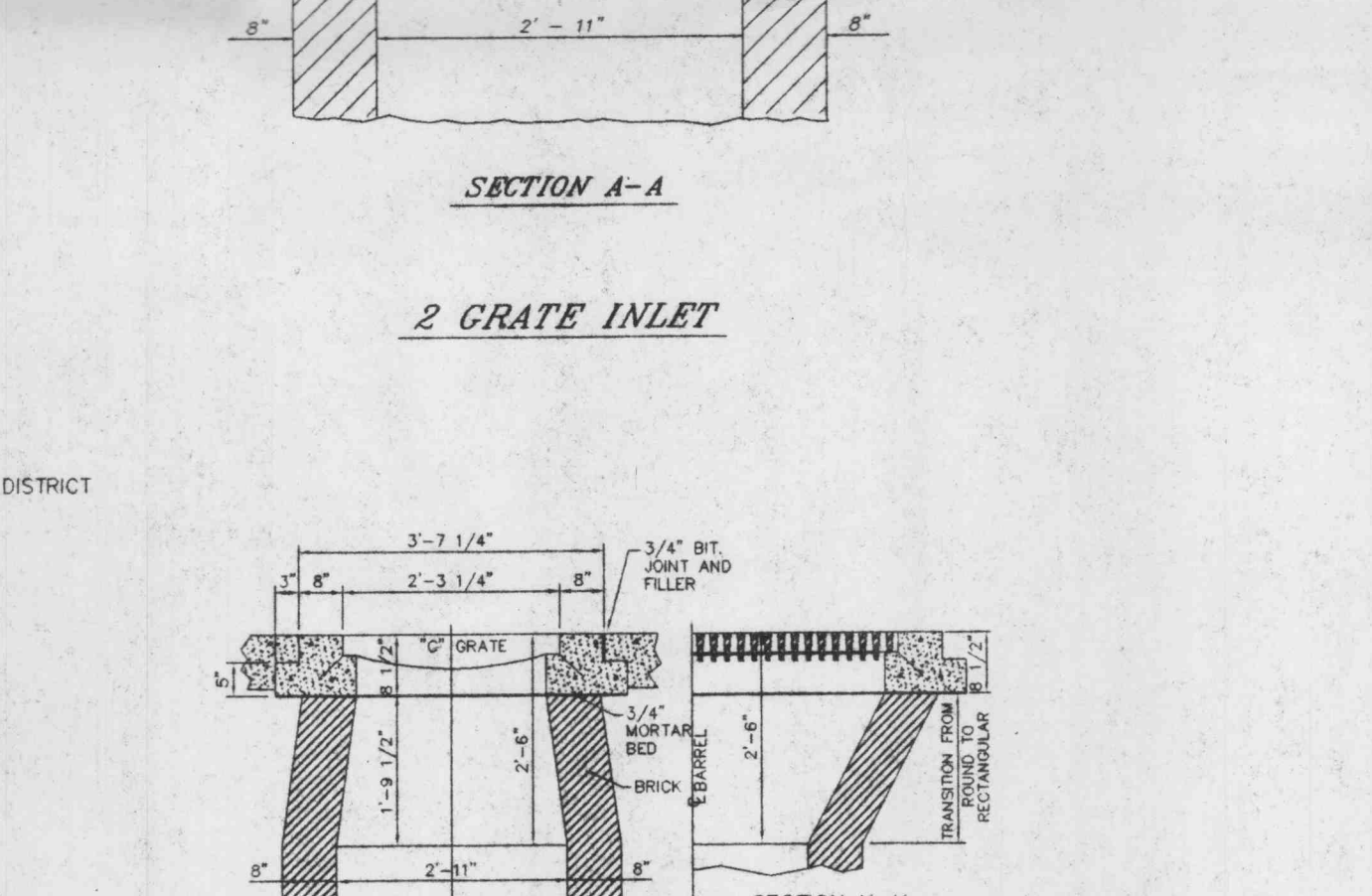
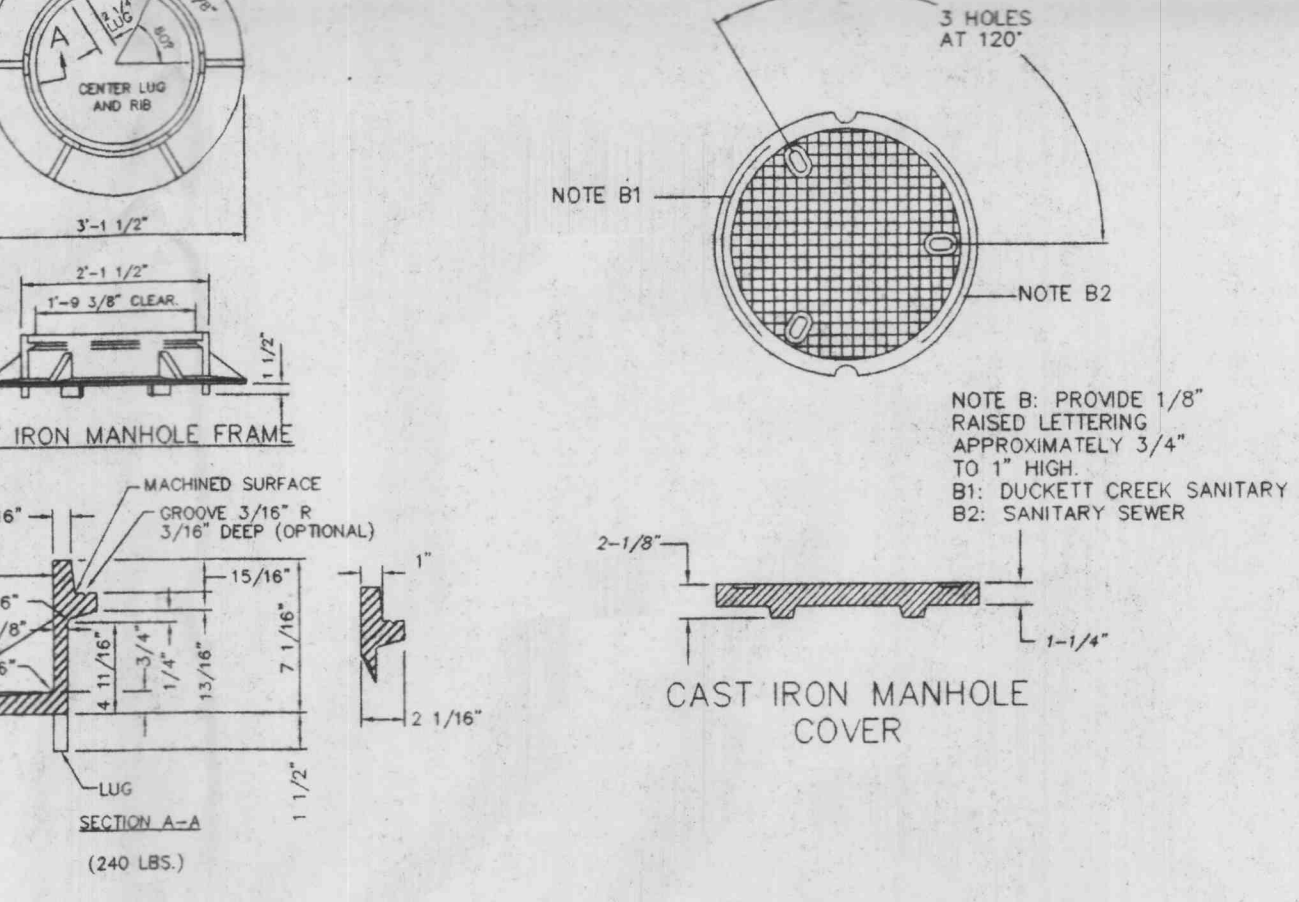
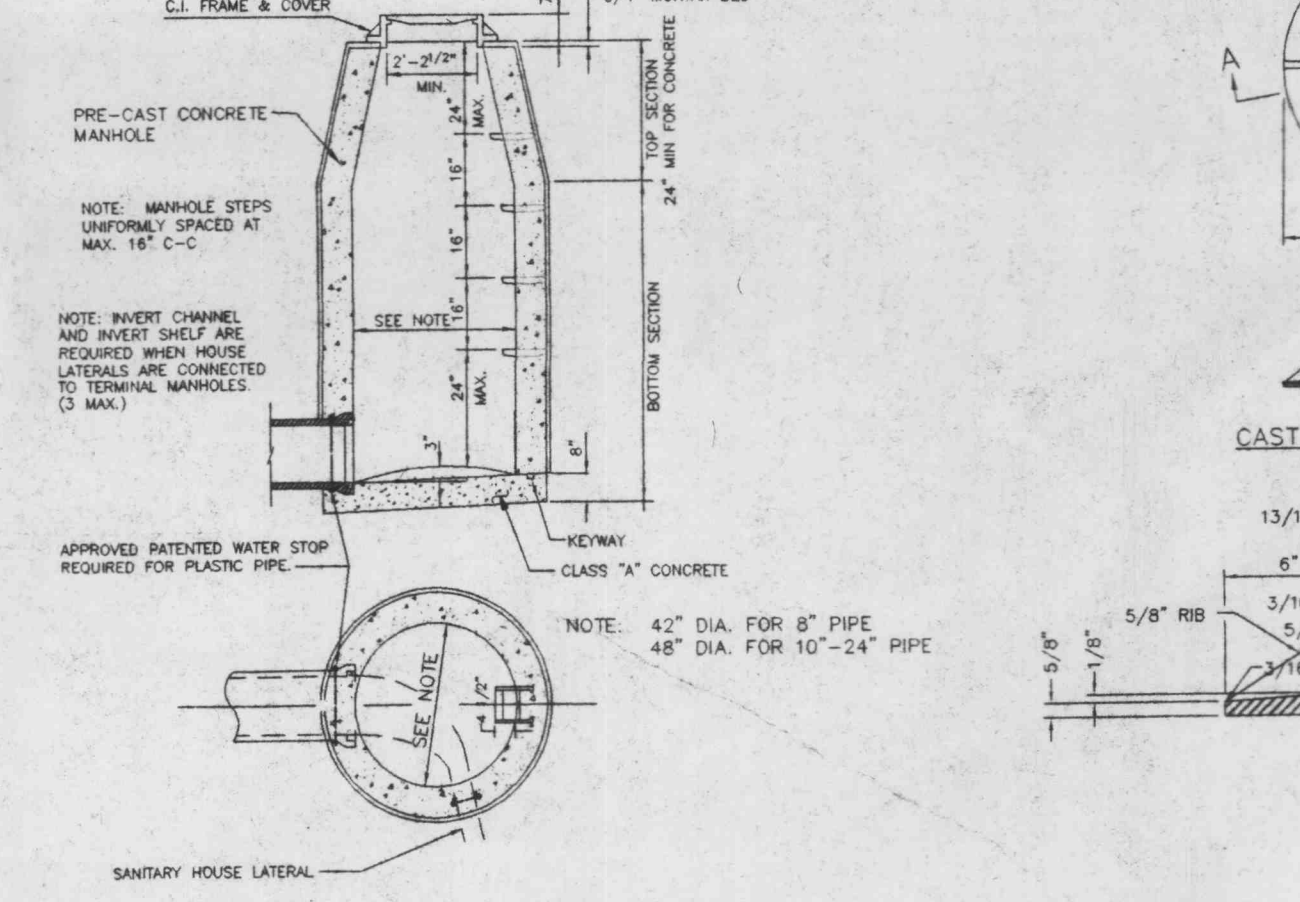
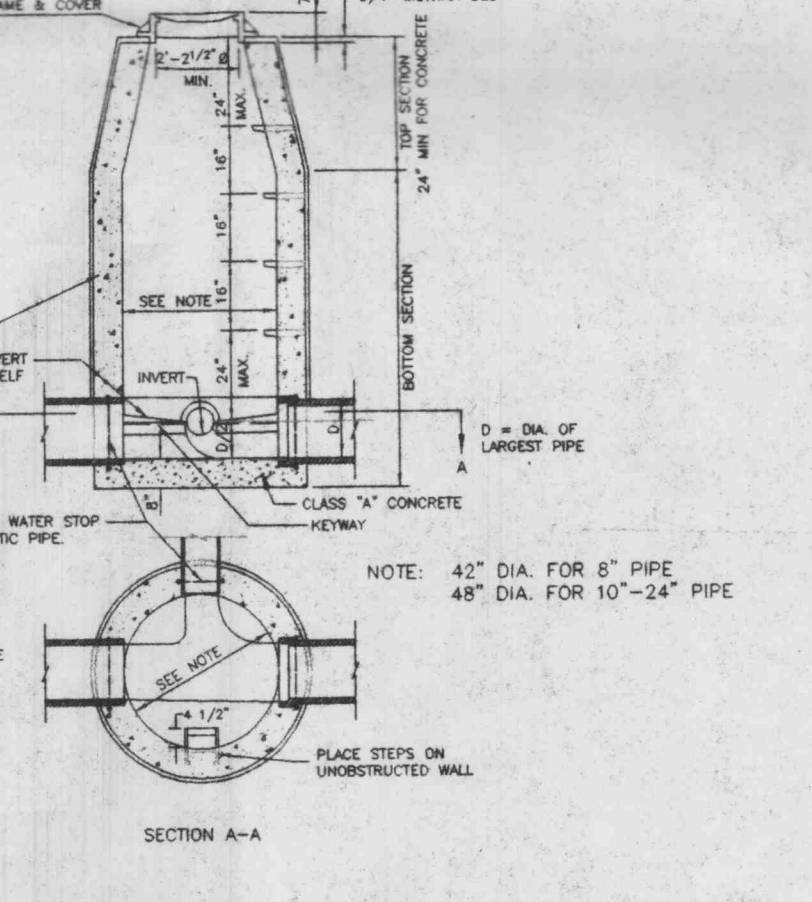
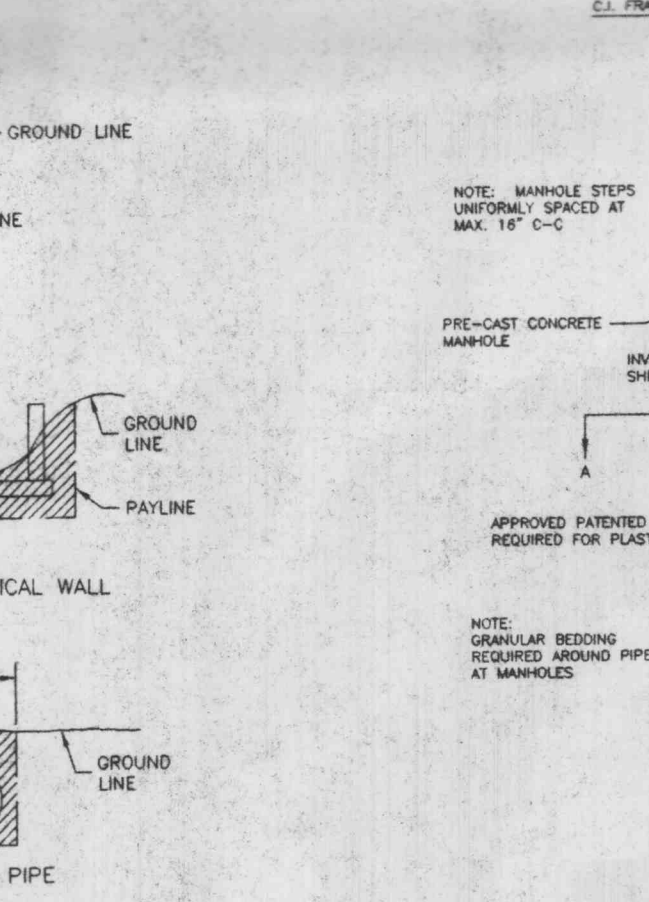


TABLE NO. 1  
 PAVEMENT WIDTHS OF TRENCH AND PAVEMENTS OF CONCRETE

Inch Diameter (Nominal)	Minimum	Maximum	Inch Diameter (Nominal)	Minimum	Maximum
6	28	33	30	30	35
8	28	33	36	30	35
10	28	33	42	30	35
12	28	33	48	30	35
15	28	33	54	30	35
18	30	35	60	30	35
21	30	35	66	30	35
24	30	35	72	30	35
27	30	35	78	30	35
30	30	35	84	30	35
33	30	35	90	30	35
36	30	35	96	30	35
39	30	35	102	30	35
42	30	35	108	30	35
45	30	35	114	30	35
48	30	35	120	30	35
51	30	35	126	30	35
54	30	35	132	30	35
57	30	35	138	30	35
60	30	35	144	30	35
63	30	35	150	30	35
66	30	35	156	30	35
69	30	35	162	30	35
72	30	35	168	30	35
75	30	35	174	30	35
78	30	35	180	30	35
81	30	35	186	30	35
84	30	35	192	30	35
87	30	35	198	30	35
90	30	35	204	30	35
93	30	35	210	30	35
96	30	35	216	30	35
99	30	35	222	30	35
102	30	35	228	30	35
105	30	35	234	30	35
108	30	35	240	30	35
111	30	35	246	30	35
114	30	35	252	30	35
117	30	35	258	30	35
120	30	35	264	30	35
123	30	35	270	30	35
126	30	35	276	30	35
129	30	35	282	30	35
132	30	35	288	30	35
135	30	35	294	30	35
138	30	35	300	30	35



DUCKETT CREEK SANITARY DISTRICT CONSTRUCTION NOTES

- Underground utilities have plotted from available information and therefore, locations shown are 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 any grading or construction of improvements.
- Gas, water and other underground utilities shall not conflict with the depth or horizontal location of existing or proposed sanitary and storm sewers, including house laterals.
- All existing site improvement disturbed, damaged or destroyed shall be repaired or replaced to closely match preconstruction conditions.
- All fill including places under proposed storm and sanitary sewer lines and paved including trench backfill within and off the road right-of-way shall be compacted to 90 percent of maximum density as determined by the Modified AASHO T-100 Compaction Test (ASTM D1557). All test shall be verified by a State Engineer concurrent with grading and backfilling operations. The compacted fill shall be free of rutting and shall be non-yielding and non-pumping during proof rolling and compaction.
- The contractor shall prevent all storm surface water, mud and construction debris from entering the existing sanitary sewer system.
- All sanitary sewer flowlines and tops built without elevations furnished by the engineer will be the responsibility of the sewer contractor.
- Easements shall be provided for all sanitary sewers, storm sewers and all utilities on the record plat.
- All construction and materials shall conform to the current construction standards of the Duckett Creek Sanitary District.
- The Duckett Creek Sanitary District shall be notified at least 48 hours prior to construction for coordination and inspection.
- All sanitary sewer building connections have been designed so that the minimum vertical distance from the low point of the basement to the flowline of a sanitary sewer at the corresponding building connection is not less than the diameter of the pipe plus the vertical distance of 2-1/2 feet.
- All exterior sanitary sewer manholes shall be waterproofed on the exterior in accordance Missouri Dept. of Natural Resources specification 10 CSR-8.120(7)(E).
- All PVC sanitary sewer pipe is to be SDR-35 or equal with "clean" 1/2" inch to 1 inch granular stone bedding uniformly graded. This bedding shall extend from 4 inches below the pipe to springline of pipe. Immediate backfill over pipe shall consist of some size "clean" or minus stone from springline of pipe to 6 inches above the top of pipe.
- All sanitary and storm sewer trench backfills shall be water jetted. Granular backfill will be used under pavement areas.
- All pipe shall have positive drainage through manholes. No flat base structure are allowed.
- All creek crossings shall be grouted rip-rap as directed by District inspectors. (All grout shall be high slump ready-mix concrete).
- Brick shall not be used on sanitary sewer manholes.
- Existing sanitary sewer service shall not be interrupted.
- Any permits, licenses, easements, or approvals required to work on public or private properties or roadways are the responsibility of the developer.

NOTE: THESE SANITARY SEWER CONSTRUCTION NOTES SUPERSEDE ANY OTHER SANITARY SEWER CONSTRUCTION NOTES ON THESE PLANS.

- SITE NOTES
- All dimensions shown are to back of curb unless noted otherwise.
  - DO NOT SCALE DRAWINGS, USE DIMENSIONS AS SHOWN.
  - Additional siting control may be required as directed by the City of Olaton.
  - Owner shall be advised that only one (1) ground sign per street facing will be permitted. Solid signs shall be a minimum of ten (10) feet behind the right of way. A separate sign permit will be required for each sign.
  - Storm sewers are to be private unless otherwise noted.
  - Contractor to notify the engineer if discrepancies are found in the field compared to the design plans.
  - Reference points, such as survey monuments, bench marks, stakes, etc., shall be preserved, but if disturbed or destroyed, shall be replaced as directed, at the expense of the contractor.

All concrete and asphalt concrete pavement to be removed shall be sawcut on a straight line along the contact line with the existing pavement to remain. Concrete walks and curbs to be removed shall be sawcut at the nearest contraction or expansion joint.

No work shall be done which will affect existing utilities prior to having ascertained that the utilities have been properly capped, plugged, or otherwise abandoned in a manner acceptable to the affected utility company. The appropriate agency shall be notified prior to the commencement of any work which will affect any existing utility. Removals or relocations by utility companies are to be initiated and coordinated by the Contractor.

- All site construction and sewer construction to be per City of Olaton and Duckett Creek Sewer District standards and specifications. Work within Missouri State Highway K shall be per Missouri Standard Specifications for Highway Construction and O'Fallon standards and specifications.
- Building dimensions as shown are to outside face of building and are per architectural plans received during September, 1998. Building dimensions are to outside face of wall. See architectural plans for locations of building over walls, walls, etc. If overall building dimensions vary from those shown on these plans, contact the engineer prior to proceeding with site construction.
- Conduct operations to prevent injury to adjacent buildings, structures, other facilities and persons. Signs, lights, and barricades shall be installed at all locations as necessary to guard against accident. Promptly repair damages caused to facilities by operations, as directed by the engineer and at no cost to the Owner.
- See irrigation plans by others for site irrigation.
- New pavement - The Contractor shall fine grade and proof roll the subgrade to the elevations as shown. Subgrade shall be compacted to densities noted. The base course and surface course shall be constructed in accordance with Missouri Standard Specifications for Highway Construction. The base course shall be Type 2A crushed rock and the compacted thickness shall be as shown on the drawings. Base course shall be compacted to densities noted. The asphalt surface wearing course shall be Type C asphaltic cement, penetration grade 85-100. Final road density shall not be below 95% of the average density of Marshall test laboratory specimens. Constructed thickness shall be within 1/4". Maintenance of finished asphaltic concrete surfacing will be required until acceptance of work by Owner.
- Pavement traffic marking to be one (1) coat of paint, white except as shown, and shall be chlorinated rubber based paint meeting Federal Specifications No. TT-7-115-D, Type III or equal. Application shall be 15 mil thick wet film (320 in. ft. of 4" stripe per gallon).