

APPROVED
7/8/96
Colleen
Kramms

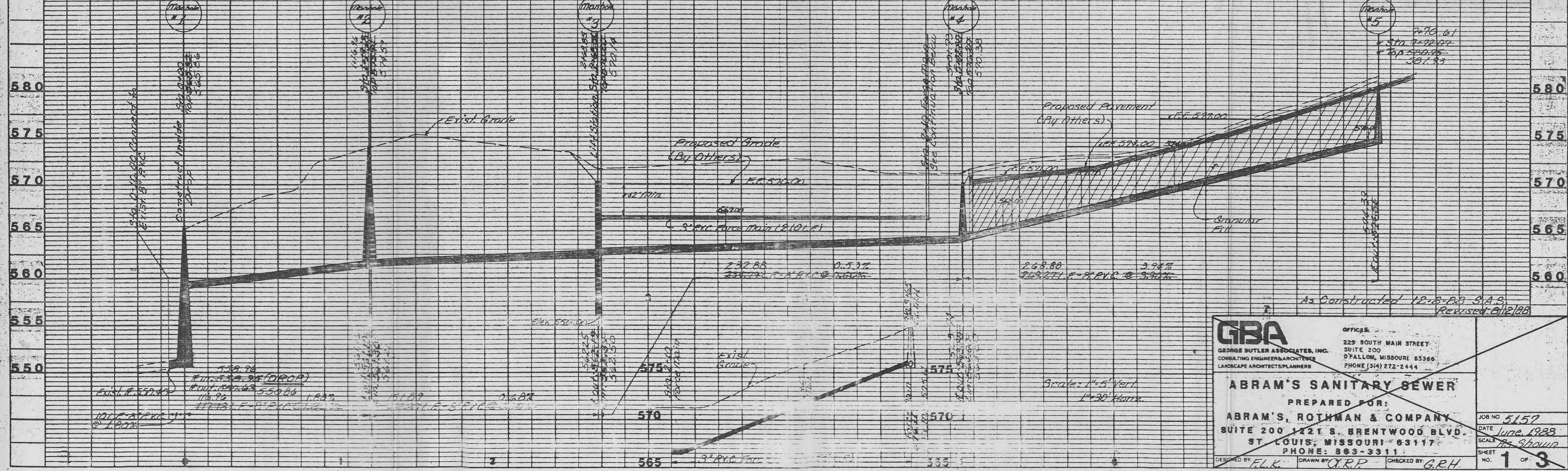
NOTE:
Existing underground (U/G); overhead (O.H.) utilities and drainage structures have been plotted from available information and therefore their locations must be considered approximate only. It is the responsibility of the individual Contractors to notify the utility companies before actual construction.

NOTE: ORIGINAL CONSTRUCTION DOCUMENTS PREPARED BY GEORGE BUTLER ASSOCIATES, INC. THESE ORIGINAL DOCUMENTS ARE SHOWN FOR INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY ACTUAL FIELD CONDITIONS PRIOR TO BIDDING.

Note: Proposed Sanitary Sewer This Contract. All Other Improvements to be Done By Others.

Project Benchmark: "I" @ Doctor's Office, West of Highway "K" Near Southeast Corner of Building. Elev. 571.81

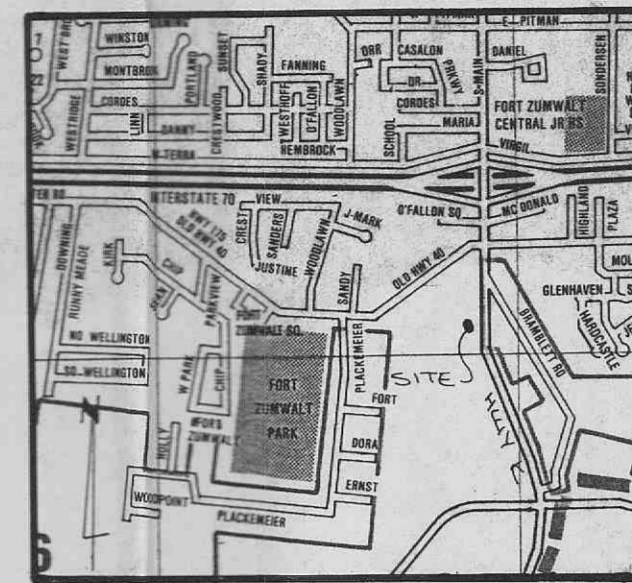
PICKETT RAY & SILVER	
Civil Engineers Planners Land Surveyors	333 Mid Rivers Mall Dr. St. Peters, MO 63376 441-1211 278-1211
ABRAM'S SANITARY SEWER	
DRAWN BY: R.J.T.	DATE: 6-18-96
CHECKED BY: [Signature]	DATE: [Blank]
FIELD BOOK: [Blank]	PROJECT # 92-136 JOB ORDER # 34935



GBA GEORGE BUTLER ASSOCIATES, INC. CONSULTING ENGINEERS/ARCHITECTS LANDSCAPE ARCHITECTS/PLANNERS	OFFICE: 225 SOUTH MAIN STREET SUITE 200 O'FALLON, MISSOURI 63366 PHONE (314) 272-2444
ABRAM'S SANITARY SEWER	
PREPARED FOR: ABRAM'S, ROTHMAN & COMPANY	
SUITE 200 1221 S. BRENTWOOD BLVD. ST. LOUIS, MISSOURI 63117 PHONE: 863-3311	
DESIGNED BY: F.L.K.	DRAWN BY: G.R.P.
CHECKED BY: G.R.H.	JOB NO. 5157
DATE: June 1988	SCALE: As Shown
SHEET NO. 1	OF 3

**CITY OF 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.
- All filled places under buildings, proposed sanitary and storm sewer lines, and/or paved areas including trench backfills shall be compacted to 98% of maximum density as determined by the "A.S.H.T.O. T-99 Standard Proctor Test" (ASTM D-698) 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 98% of maximum density as determined by the "Standard Proctor Test A.S.H.T.O. T-99" (ASTM D-698) unless otherwise specified by the 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.
- No area shall be cleared without the permission of the developer.
- Water lines, valves, sleeves, meters and etc., shall meet all specifications and installation requirements of the local governing authority.
- All sanitary and storm sewers shall meet all specifications and installation requirements of the local governing authority.
- All PVC sanitary sewer pipe shall be DR-35 or equal with crushed stone bedding uniformly graded between 1" and 1 1/4" size. This bedding shall extend from 6" below the pipe to 12" above the top of the pipe.
- All sanitary manhole tops 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 Deeter 1315 or approved equal.
- 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 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.
- 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.



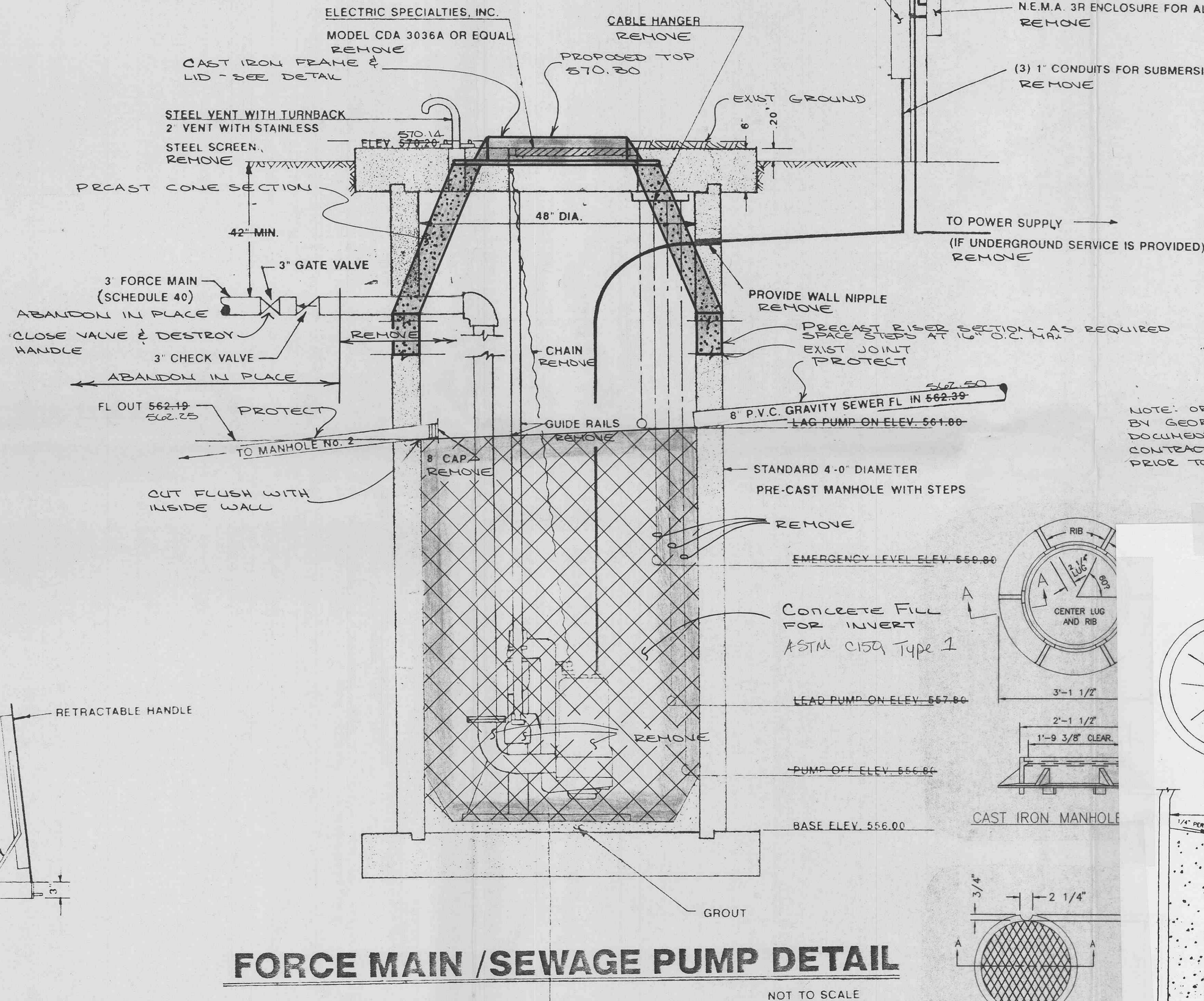
LOCATION MAP

UTILITY COMPANIES

- T.C.I. Cable Company
4160 Old Mill Parkway
St. Peters, Missouri 63376
Attn: Mr. Rick Macias
Phone: (314) 441-7737
- G.T.E. Telephone Company
1000 G.T.E. Drive
Building 72
Wentzville, Missouri 63385
Attn: Mr. Larry Norris
Phone: (314) 639-3928
- Union Electric Company
200 Callahan Road
Wentzville, Missouri 63385
Attn: Mr. Ralph Crank
Phone: (314) 327-6203
- St. Charles County Water District No. 2
100 Water Drive
O'Fallon, Missouri 63366
Attn: Mr. Robert Troder
Phone: (314) 625-3737
- St. Charles Gas Corporation
#1 Westbury Square
Building 10
St. Charles, Missouri 63301
Attn: Mr. Gene Bohler
Phone: (314) 946-8937
- Alliance Water Resources (sanitary Sewer)
205 East Elm Street
O'Fallon, Missouri 63366
Attn: Mr. Gary Johnson
Phone: (314) 281-2858
- O'Fallon Fire Protection
119 East Elm Street
O'Fallon, Missouri 63366
Attn: Chief David House
Phone: (314) 272-3493
- City of O'Fallon (Zoning) (Storm Sewer)(Water)
138 South Main
O'Fallon, Missouri 63366
Phone: (314) 240-2000

NOTE: SERVICE POLE IS NOT DRAWN TO SCALE.

GIRA GEORGE BUTLER ASSOCIATES, INC. Engineers / Architects / Landscapers / Planners Kansas City, Mo. / Lenexa, Mo. / O'Fallon, Mo. / St. Louis, Mo. / Oklahoma City, Ok.		DATE: <u>JUNE 17, 1988</u>
DESIGN BY: <u>FLP</u>		SHEET NO: <u>5157</u>
DRAWN BY: <u>ARP</u>		TOTAL SHEETS: <u>3</u>
PROJECT NO: <u>34935</u>		BY: <u>F.L.K.</u>
REVISIONS		DATE: <u>01/2/88</u>
<u>REMOVE GRINDER PUMPS</u>	2	3



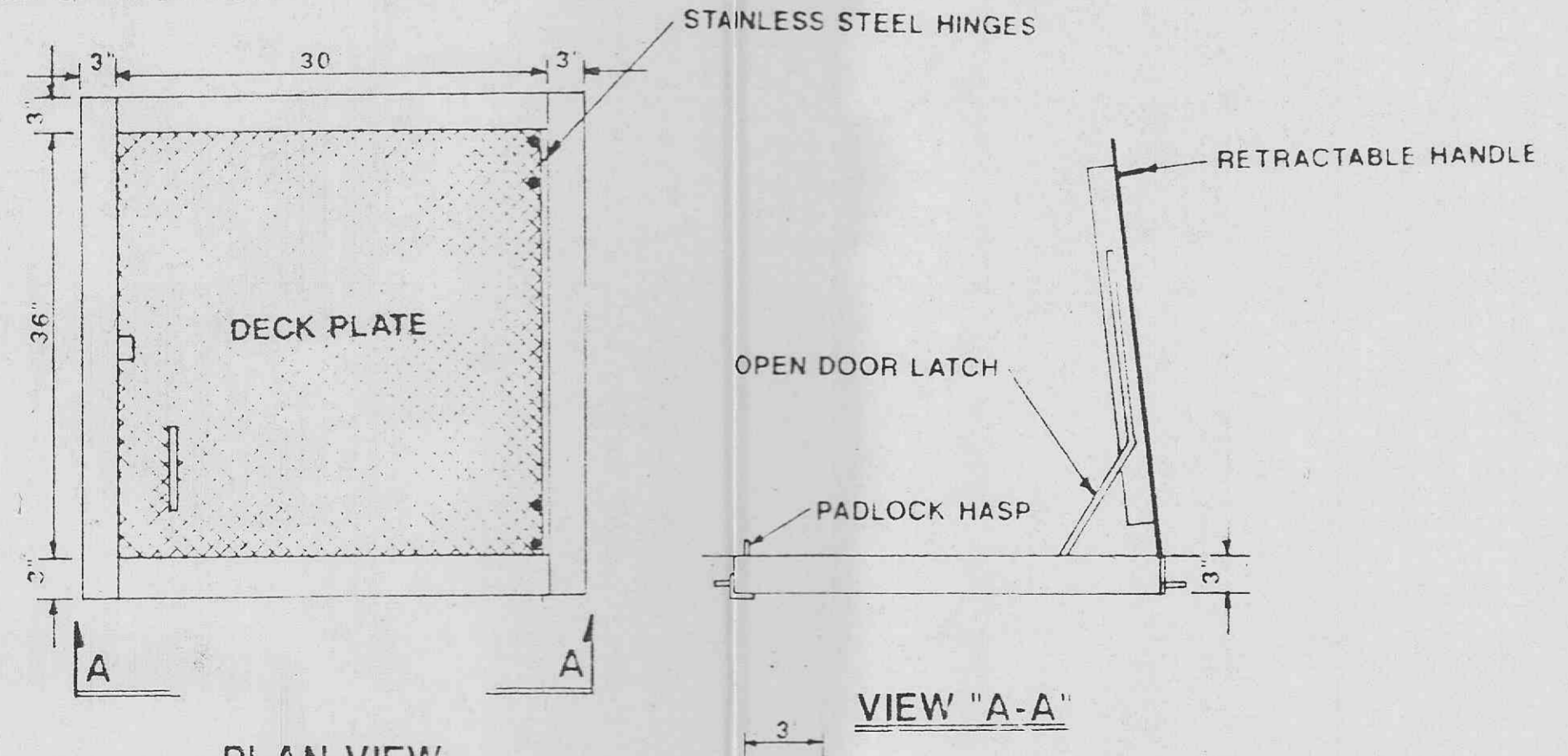
FORCE MAIN / SEWAGE PUMP DETAIL

NOT TO SCALE

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MODEL SPECIFICATIONS:
SHIELD PUMPING SYSTEM
WITH LIFT-OUT GUIDE RAIL

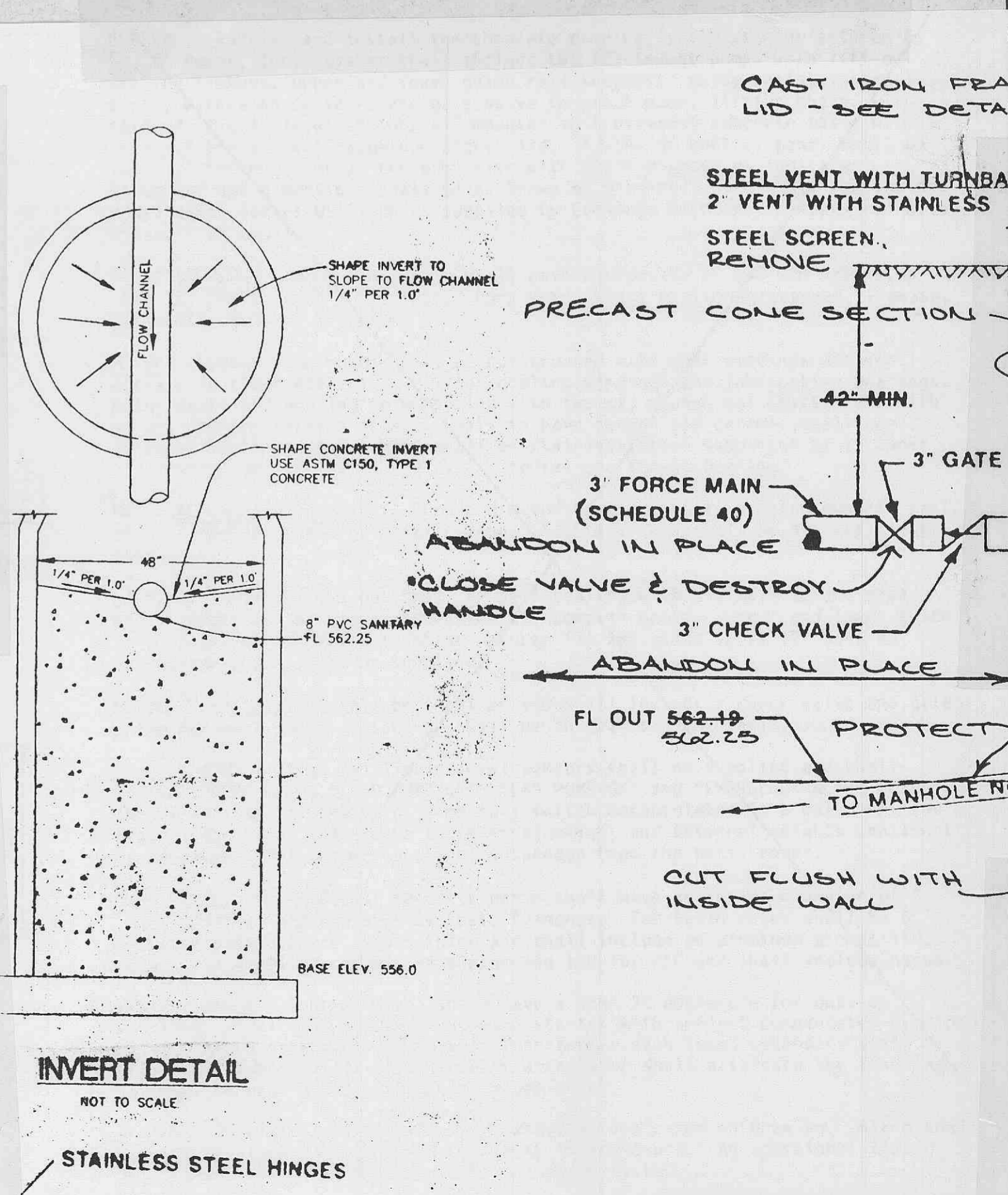
NOTE: CONSTRUCTED OF ALUMINUM



TYPICAL SINGLE DOOR ACCESS COVER

TO BE REMOVED NOT TO SCALE

NOTE: LOAD LIMIT 150 LBS./ SQ. FT.. CONTRACTOR TO MOUNT IN CONCRETE COVER.



INVERT DETAIL

NOT TO SCALE

RETRACTABLE HANDLE