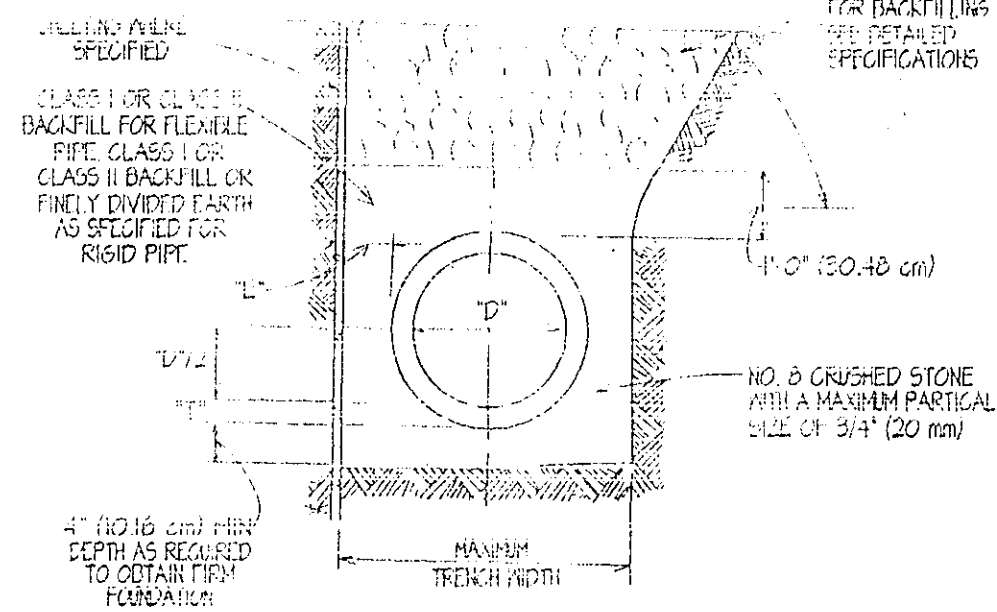


GENERAL NOTES / SPECIFICATIONS

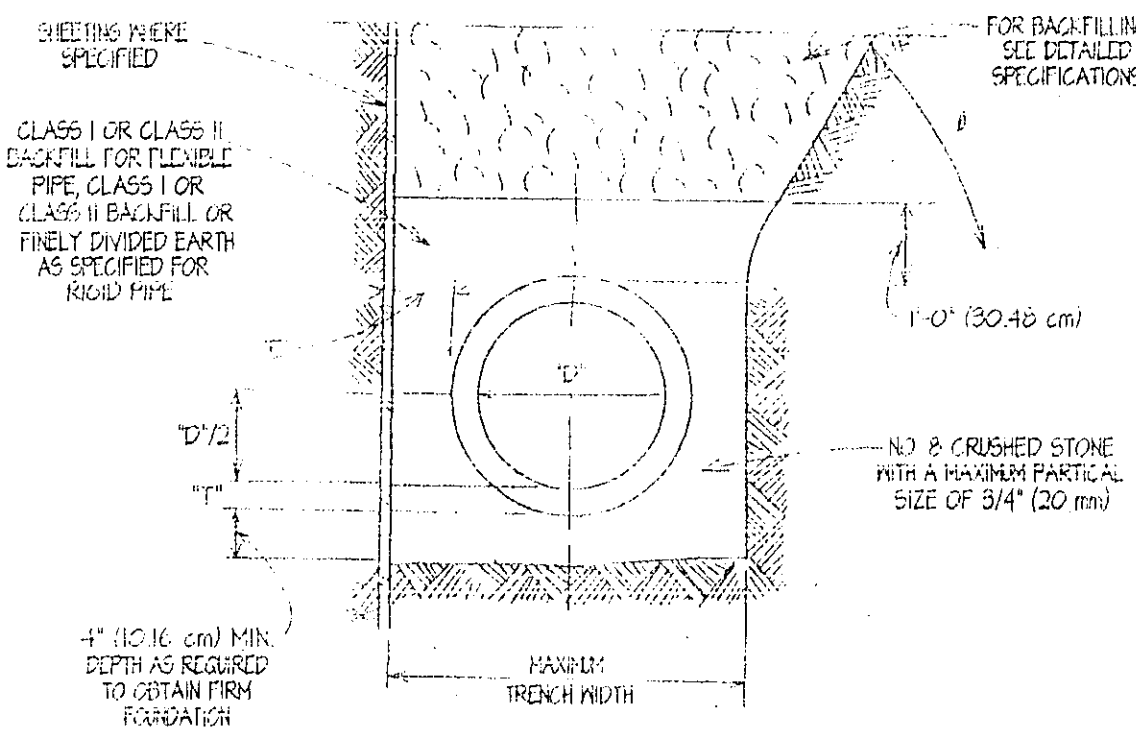
- ALL GRADES AT BOUNDARY SHALL MEET EXISTING GRADES.
- IT SHALL BE THE RESPONSIBILITY OF EACH SUBCONTRACTOR TO VERIFY ALL EXISTING UTILITIES AND CONDITIONS PERTAINING TO HIS PHASE OF WORK. IT SHALL ALSO BE THE SUBCONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNERS OF THE VARIOUS UTILITIES FOR PROPER STAKE LOCATION OF EACH UTILITY BEFORE WORK IS STARTED. THE SUBCONTRACTOR SHALL NOTIFY IN WRITING THE OWNERS OR THE ENGINEER OF ANY CHANGES, OMISSIONS, OR ERRORS FOUND ON THESE PLANS OR IN THE FIELD BEFORE WORK IS STARTED OR RESUMED.
- STANDARD SPECIFICATIONS FOR THE FALL CREEK REGIONAL WASTE DISTRICT SHALL APPLY FOR ALL SANITARY SEWERS.
- TRENCHES IN PAVED AREAS OR PROPOSED AREA SHALL BE BACKFILLED WITH COMPACTED GRANULAR MATERIALS TO PAVEMENT BASE. THE PAVEMENT SECTION SHALL CONSIST OF A MINIMUM OF 4" CONCRETE WITH A 2" HOT ASPHALT CONCRETE SURFACE, PER FALL CREEK REGIONAL WASTE DISTRICT AND TOWN OF INGALLS, INDIANA.
- THE CONTRACTOR SHALL LOCATE ALL UTILITIES OR UNDERGROUND STRUCTURES PRIOR TO CONSTRUCTION AND NOTIFY EACH RESPECTIVE UTILITY OWNER FORTY-EIGHT HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
- ALL CONSTRUCTION ACTIVITY ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE O.S.H.A. STANDARDS FOR WORKERS SAFETY.
- ELEVATION AT SEWER STRUCTURES ARE PIPE INVERTS.
- FORCE MAIN TO HAVE A MINIMUM COVER OF 40"
- A VENT SHALL BE PROVIDED FOR THE NET WELL STRUCTURE.
- A CONVENIENCE OUTLET SHALL BE PROVIDED AT THE LIFT STATION.
- ALL WASTEWATER SYSTEMS MUST COMPLY WITH THE REQUIREMENTS OF THE MOST RECENT EDITION OF THE "RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES" (TEN STATE STANDARDS).

- INFILTRATION REQUIREMENTS: NO LEAKAGE OR INFILTRATION IS ALLOWED PER AIR TEST AT A MINIMUM OF 4 POUNDS. MANHOLES SHALL BE TESTED SEPARATELY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ALL NECESSARY CORRECTIONS. THE COST OF ALL MATERIALS, EQUIPMENT, LABOR, AND INCIDENTALS NECESSARY FOR PERFORMING THE TEST AND MAKING ANY NECESSARY CORRECTIONS AND REPLACEMENTS SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- DEFLECTION TESTS WILL BE RUN ON ALL GRAVITY SEWERS CONSTRUCTED WITH FLEXIBLE PIPE, NOT LESS THAN 30 DAYS AFTER FINAL FULL BACKFILL HAS BEEN PLACED; NO PIPE SHALL EXCEED A .8% DEFLECTION. THESE TESTS SHALL CONSIST OF PULLING A "60-NO/60" HANDREL THROUGHOUT THE LINE AND BE PERFORMED BY THE SUBCONTRACTOR.
- SANITARY SEWER MATERIAL (ASTM REFERENCES):

PIPE MATL.	MAIN	LATERAL	STIFFNESS (SDR)
GRAVITY SEWER			
PVC D3034	D3034	D3034	(35) MAIN
FORCE MAIN:			
PVC	D2241	D3134	(26)
- FLEXIBLE PIPE (PVC) SHALL BE INSTALLED PER ASTM D2321.
- THE CONTRACTOR SHALL RESTORE CONSTRUCTION AREAS TO AN EQUAL OR BETTER CONDITION THAN EXISTING PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ALL UTILITY REPLACEMENTS SHALL CONFORM TO THE MANUFACTURER'S CONSTRUCTION AND MATERIAL SPECIFICATIONS.
- FOLLOWING OR DURING CONSTRUCTION OF THE SEWER, THE CONTRACTOR SHALL FIELD MARK THE SERVICE LATERAL LOCATIONS USING A STEEL FARM FENCE TYPE POST, PAINTED GREEN. THIS SHALL BE COORDINATED WITH THE FALL CREEK REGIONAL WASTE DISTRICT.
- THE PUMP CONTROL PANEL SHALL HAVE RUNNING TIME METERS FOR EACH PUMP.

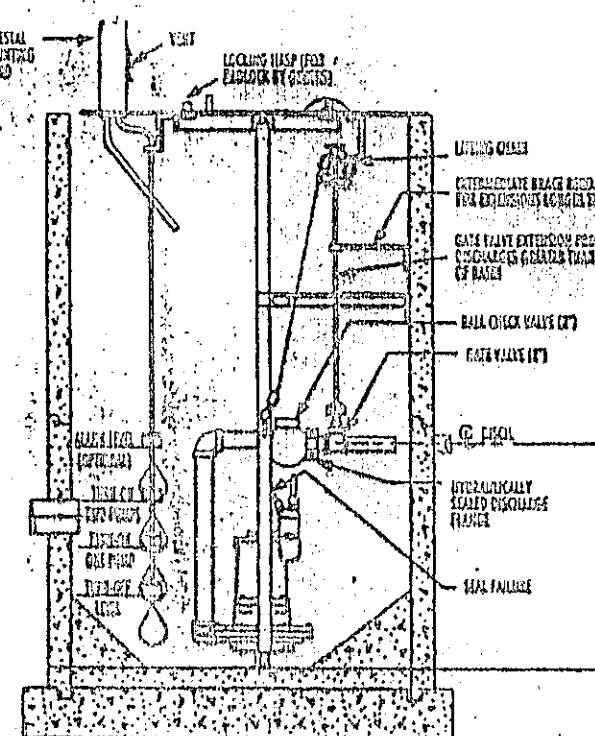
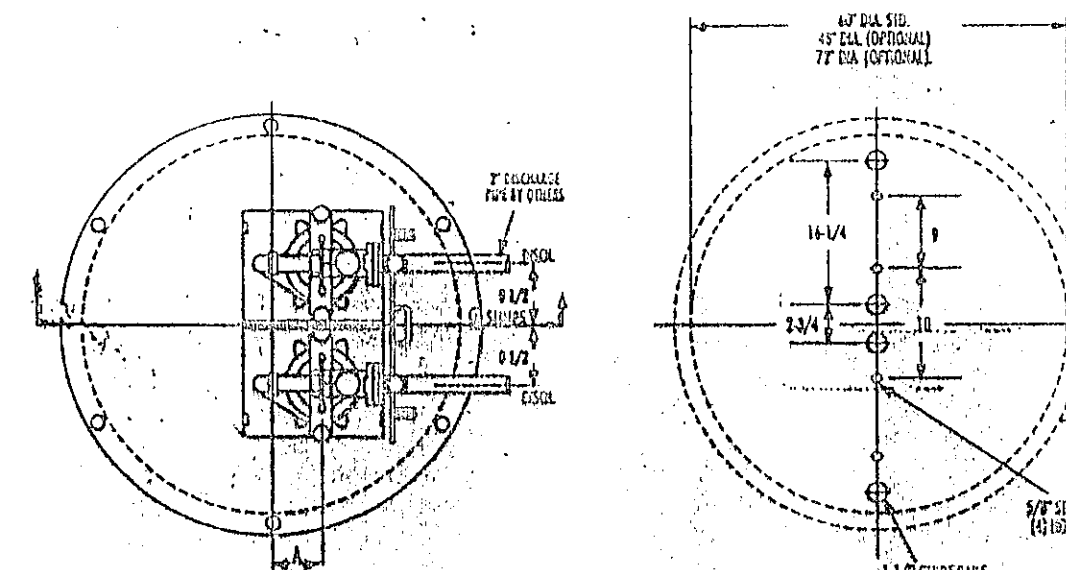


CLASS I & CLASS II BEDDING
TYPICAL SECTIONS WITH FOUNDATIONS



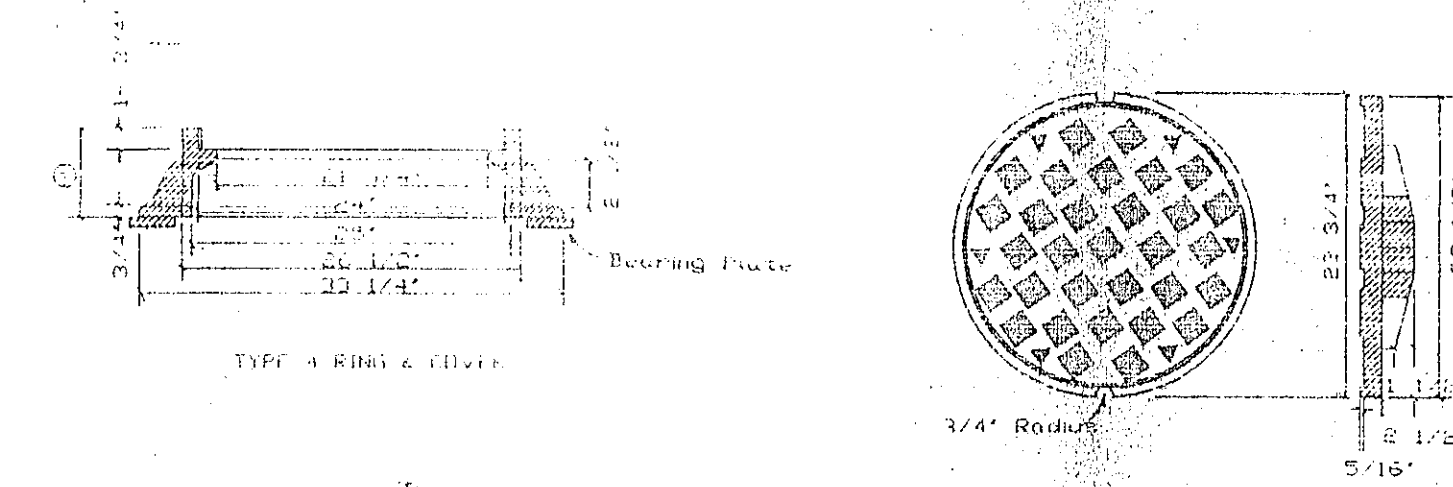
CLASS II BEDDING
CLASS II BEDDING REQUIRED ON YIELDING SOIL UNLESS CLASS A BEDDING IS ORDERED.

- NOTES:
1. SLOPE ANGLE, ϕ , SHALL BE LESS THAN THE FRICTION ANGLE OF THE EXCAVATED MATERIAL.
 2. ϕ = NOMINAL PIPE SIZE.
 3. ϕ = PIPE WALL THICKNESS.
 4. ϕ = 10" (25.40 cm) MAXIMUM FOR SEWERS UP TO AND INCLUDING 30" (76.20 cm) DIAMETER. 14" (35.56 cm) MAXIMUM FOR SEWERS LARGER THAN 30" (76.20 cm) DIAMETER.

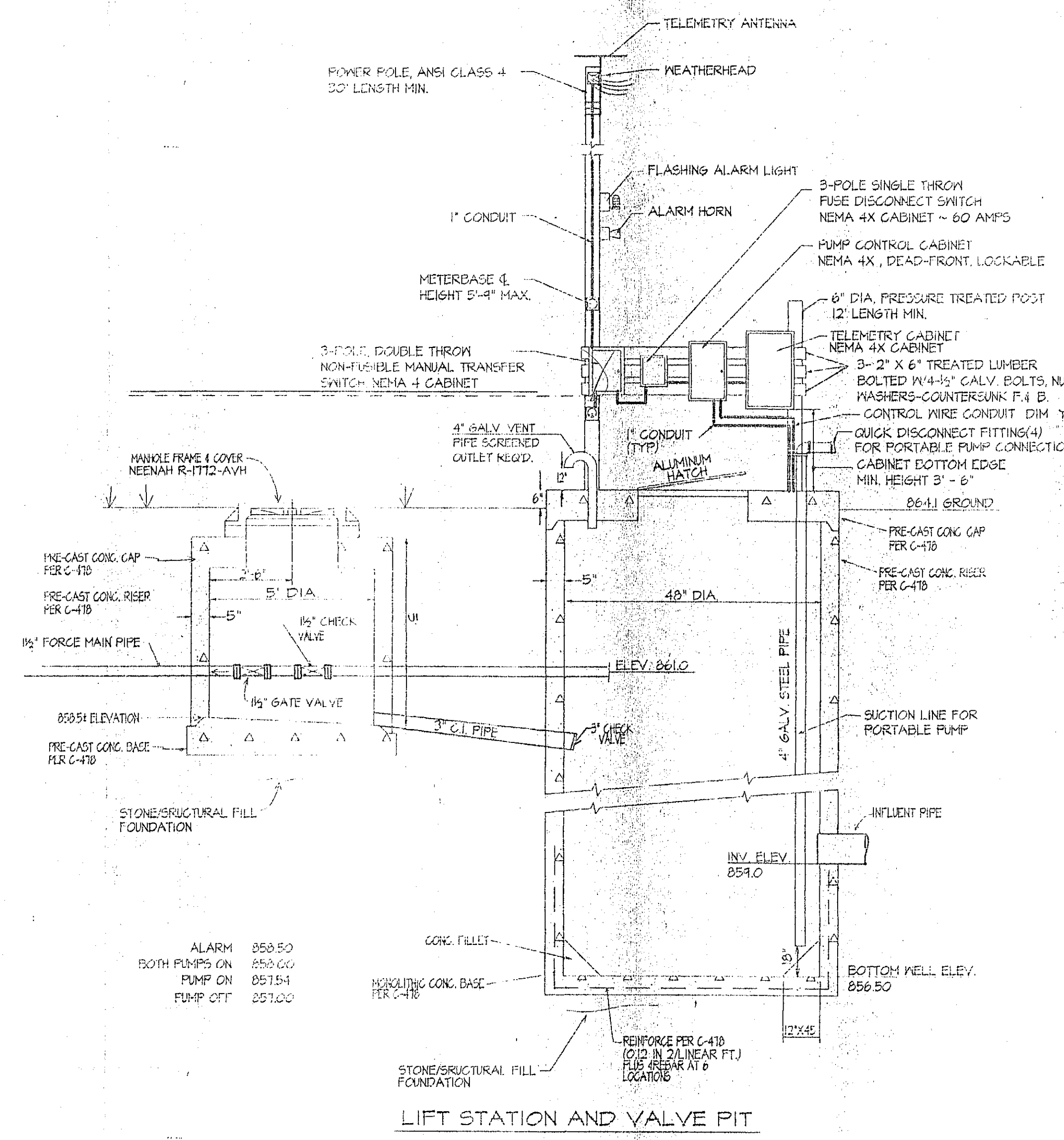
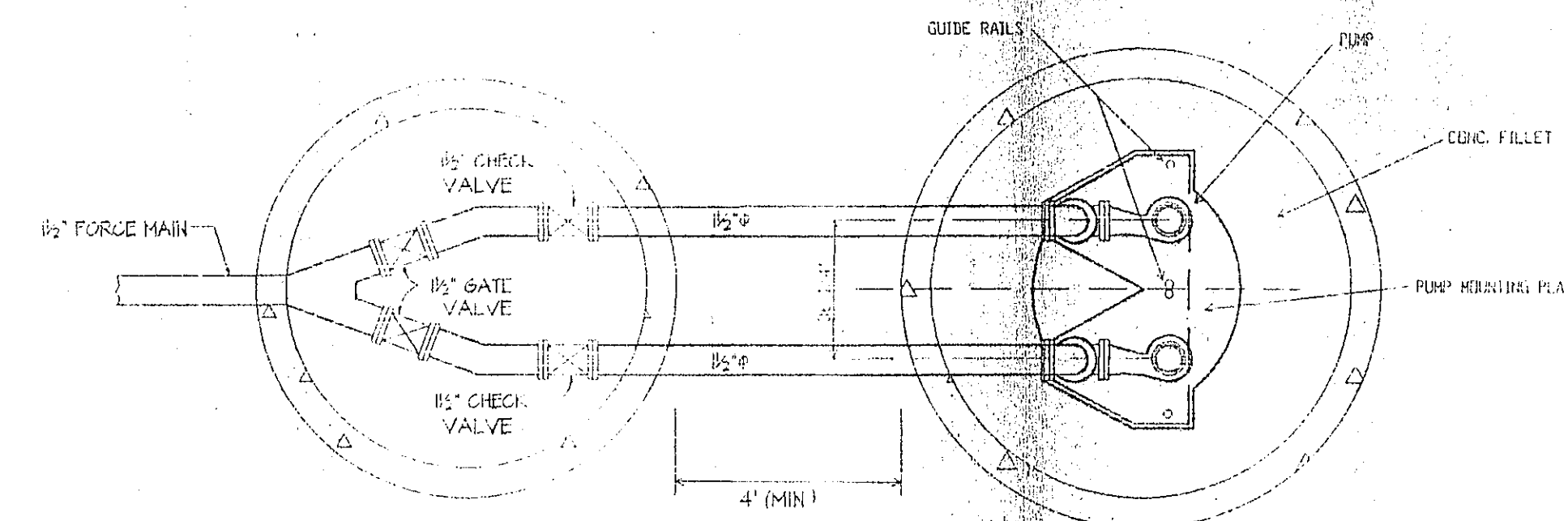


TANK DIA.	A
40"	1"
60"	8"
72"	8"

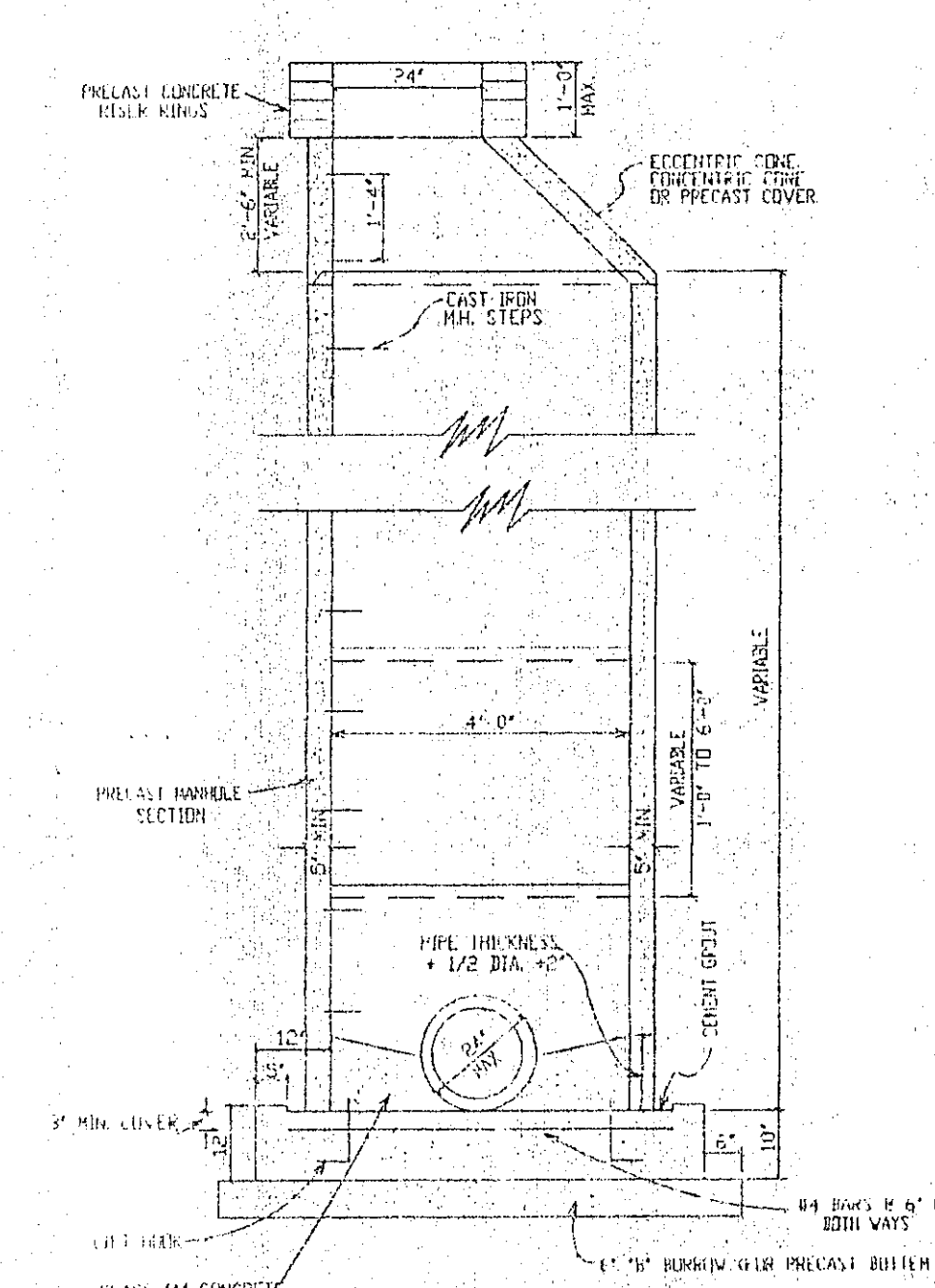
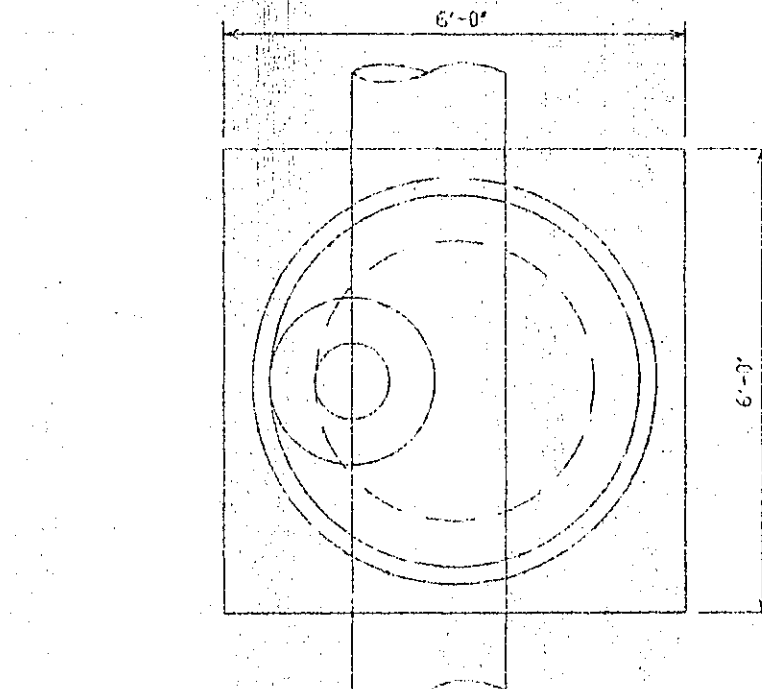
LIFT STATION AND PUMP
NO SCALE



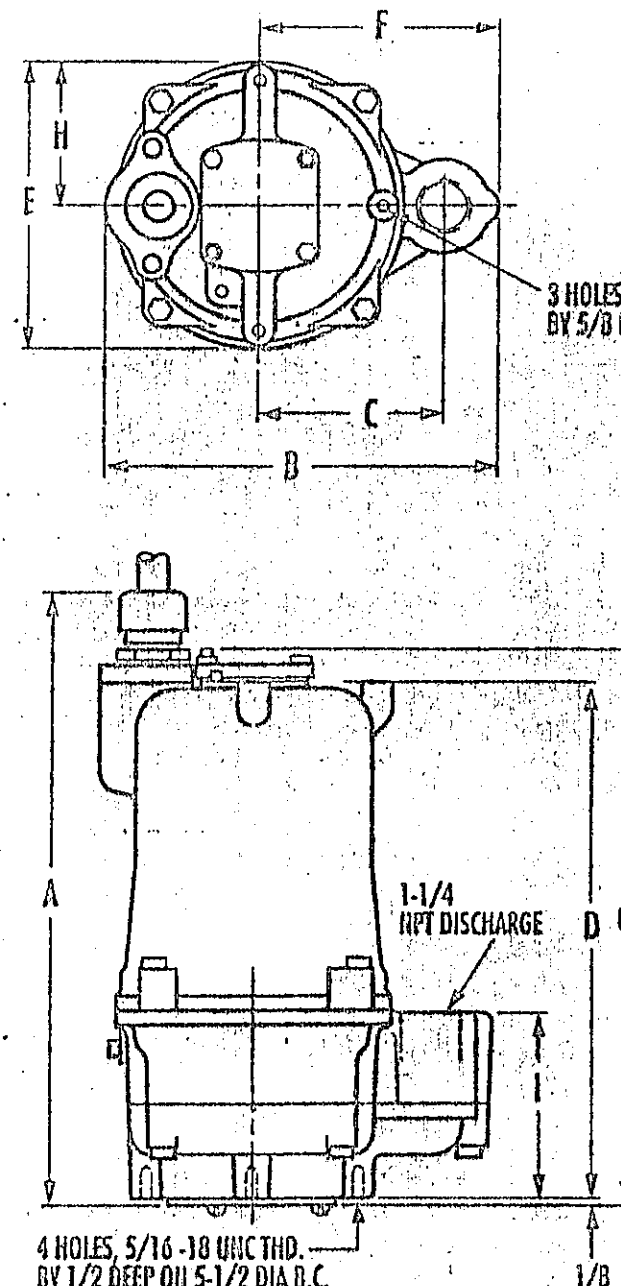
MANHOLE CASTING
NO SCALE



LIFT STATION AND VALVE PIT
NO SCALE



TYPE "C" MANHOLE
NO SCALE



GRINDER PUMP
NO SCALE

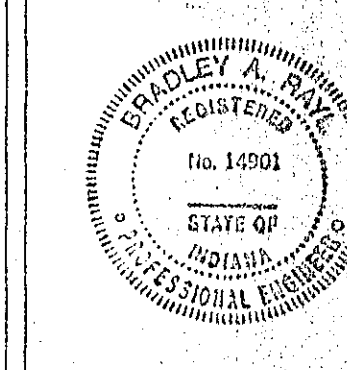
	A	B	C	D	E	F	G	H	I
SPG/SPGI200	15-19/16	10	4-5/8	12-19/16	7-1/8	6	13-15/16	3-1/16	4-1/2

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RAYL
SURVEYING
&
ENGINEERING

DETAILS
*
SPECIFICATIONS
REVISIONS: 8-4-46 ADDED NOTES / SPECS - ADDED CASTING DETAIL (R)

MYRENIA INMAN ADDITION
INGALLS, INDIANA
DATE: JUNE 25, 1946
DRAWN BY: DAVID LEAUGH



DATE: 6-26-96

SHEET
5 OF 5