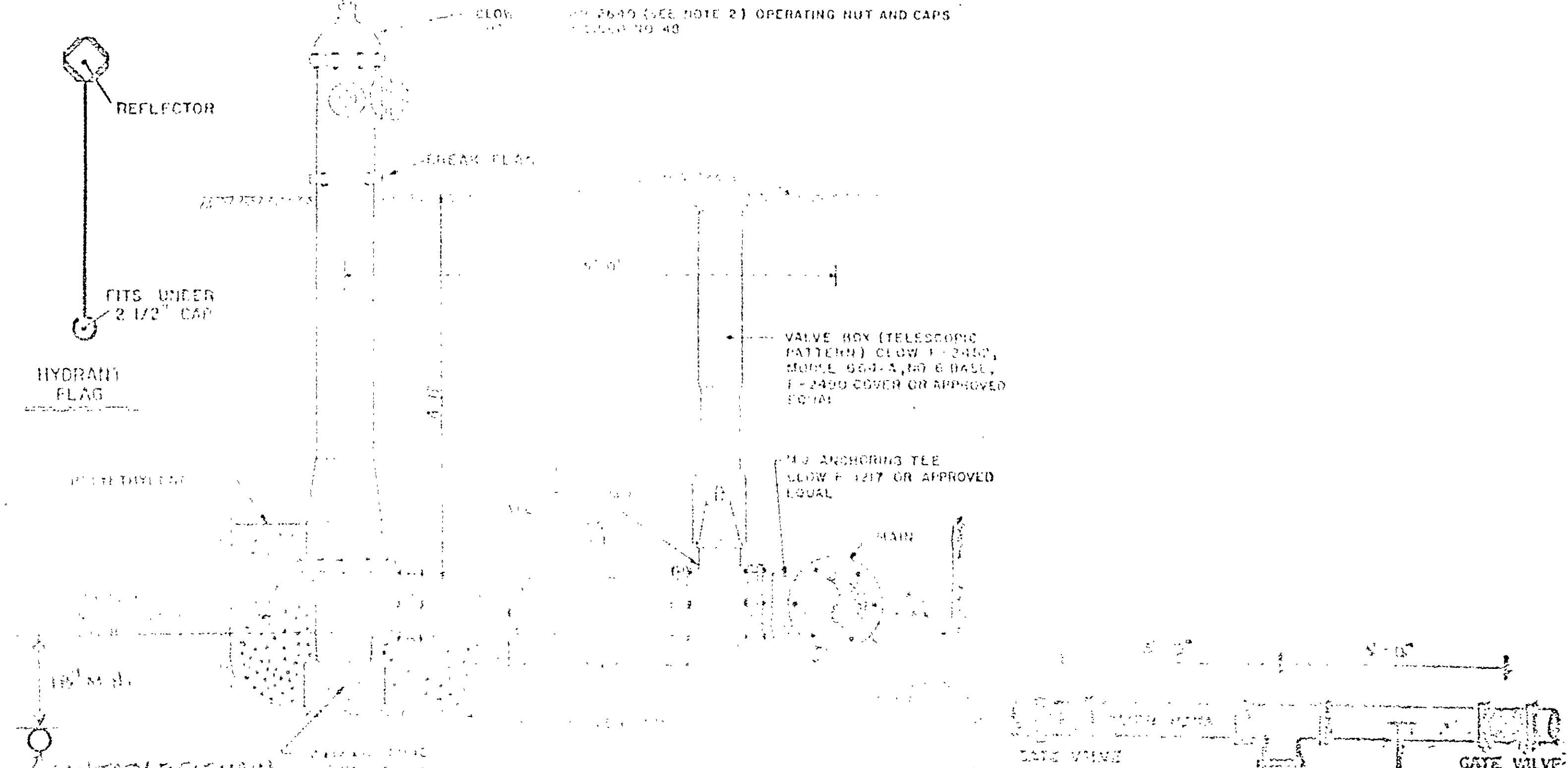
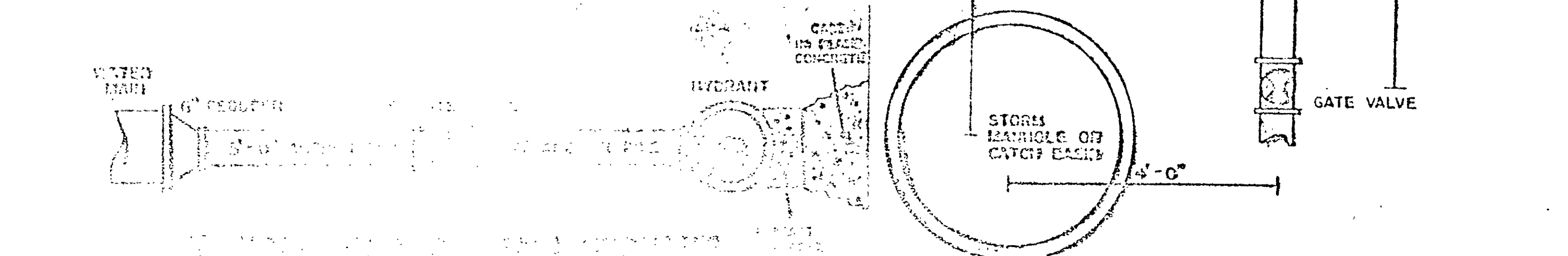
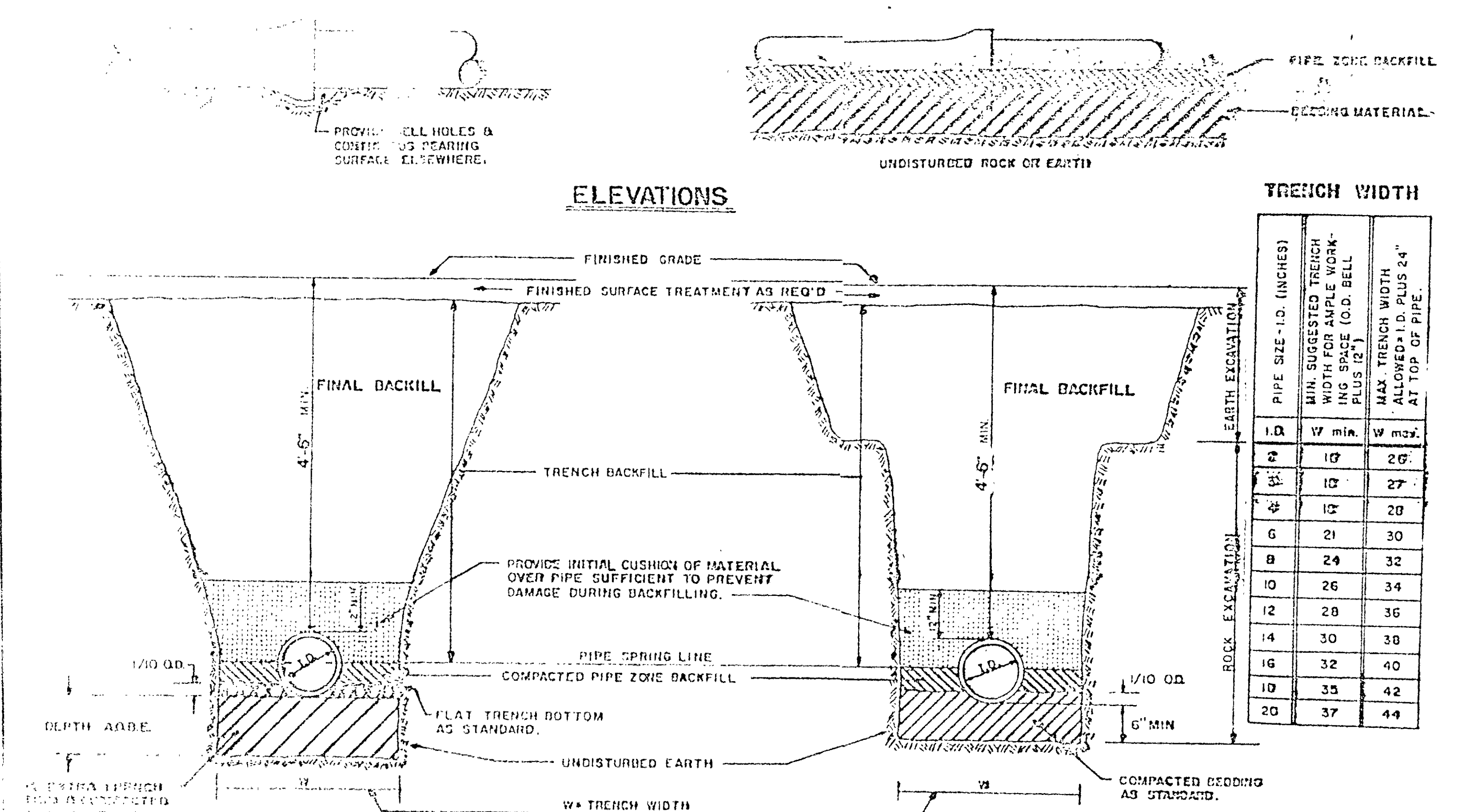




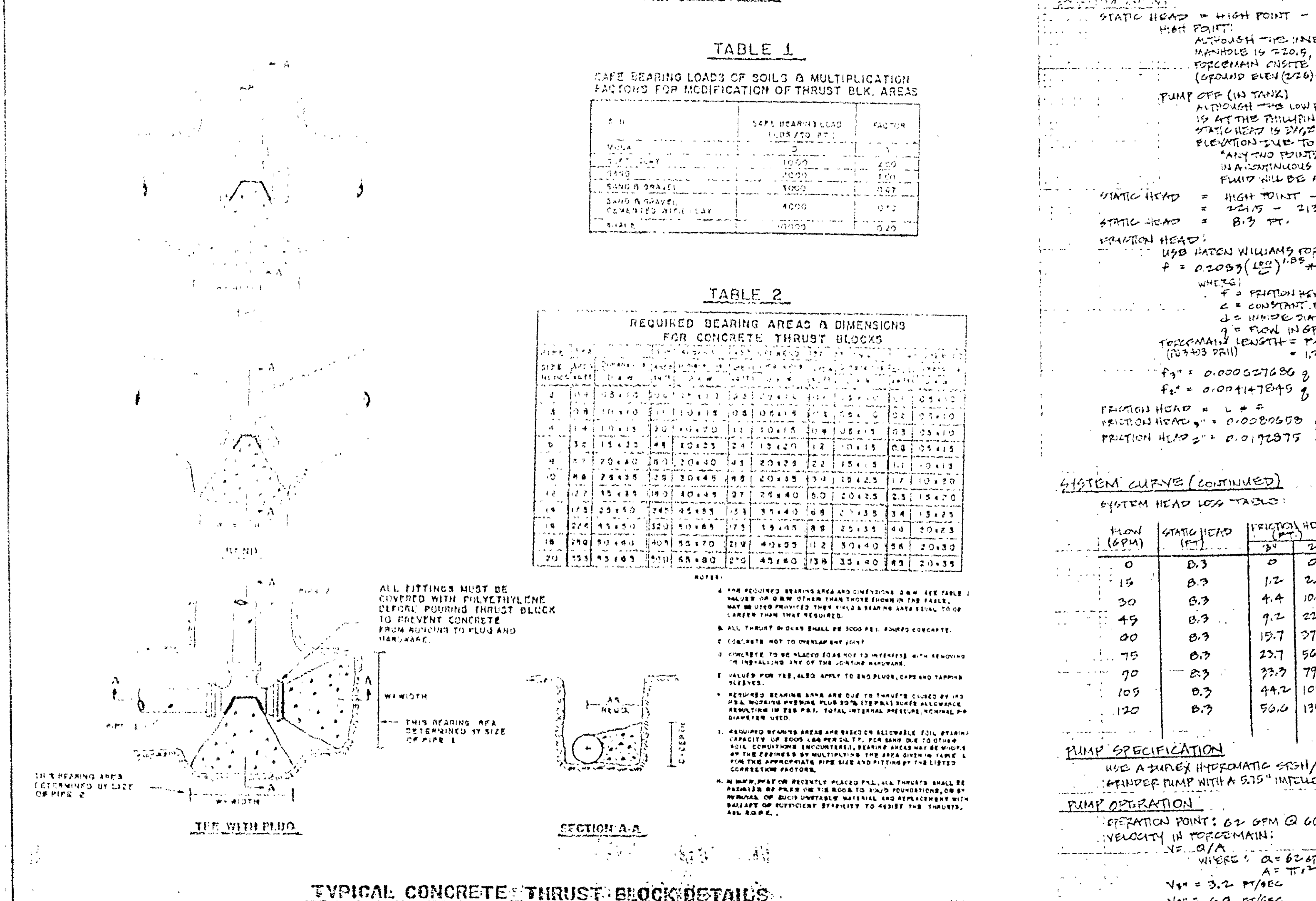
TYPICAL HYDRANT INSTALLATION



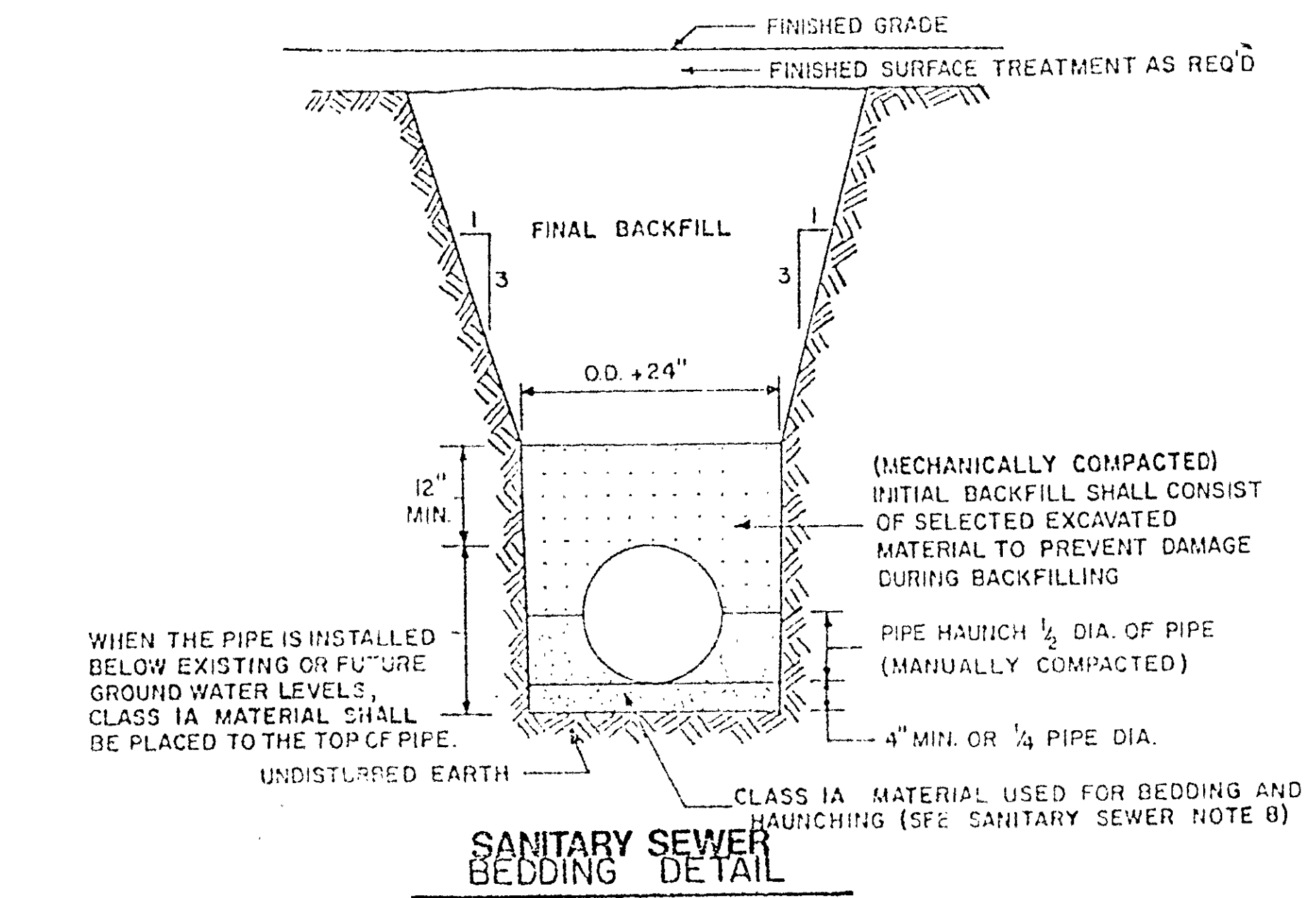
TYPICAL SPACING



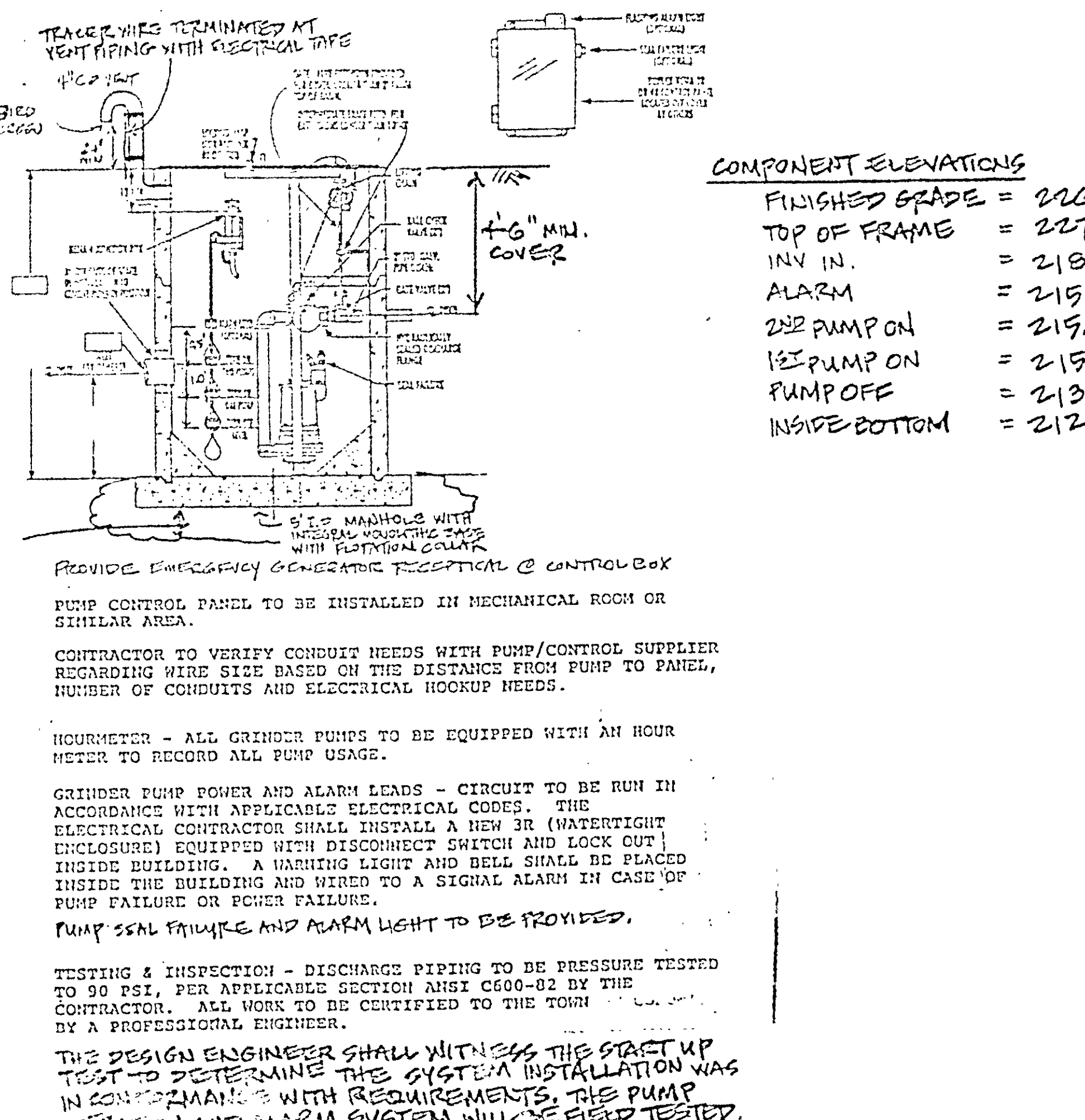
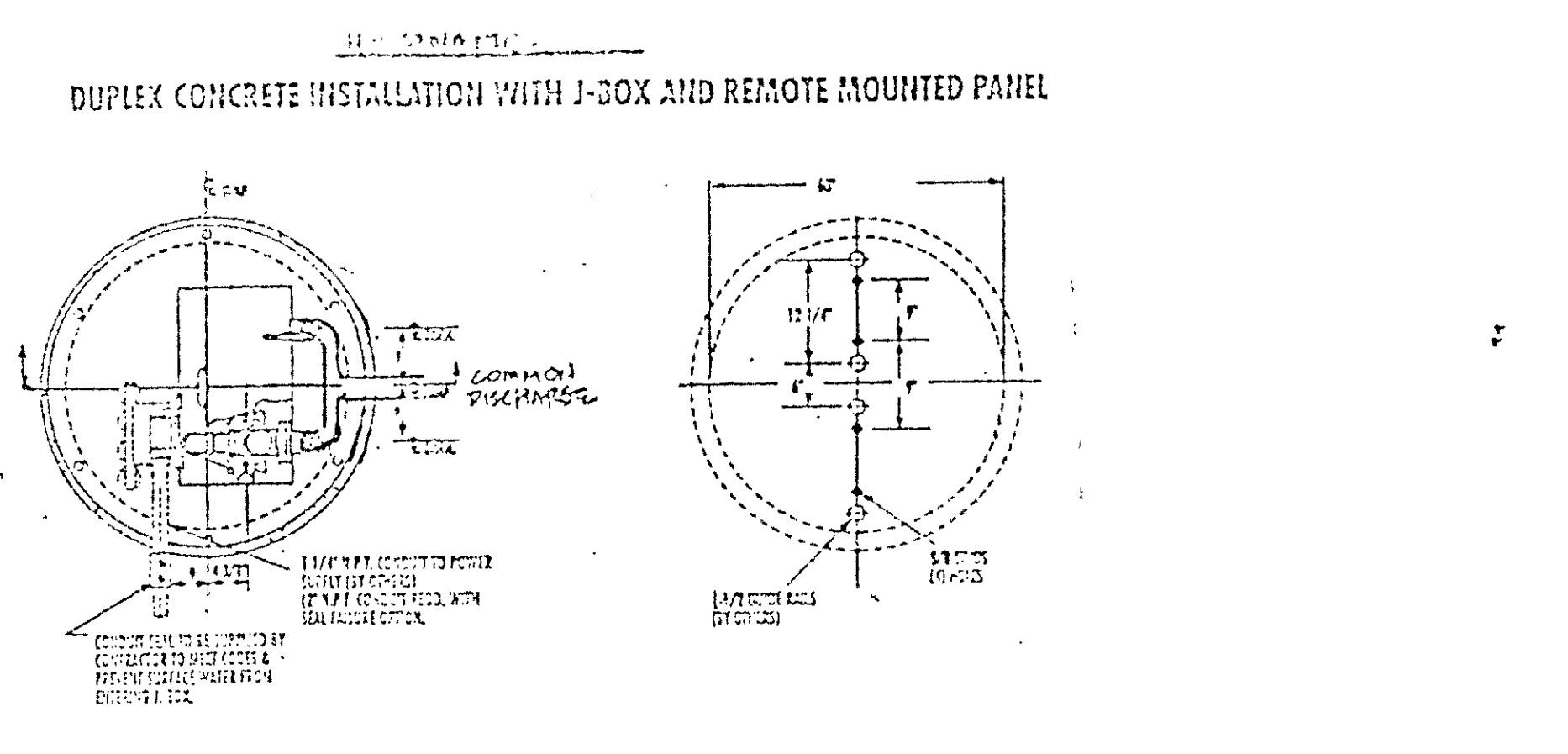
TYPICAL TRENCH DETAILS



TYPICAL CONCRETE THRUST BLOCK DETAILS

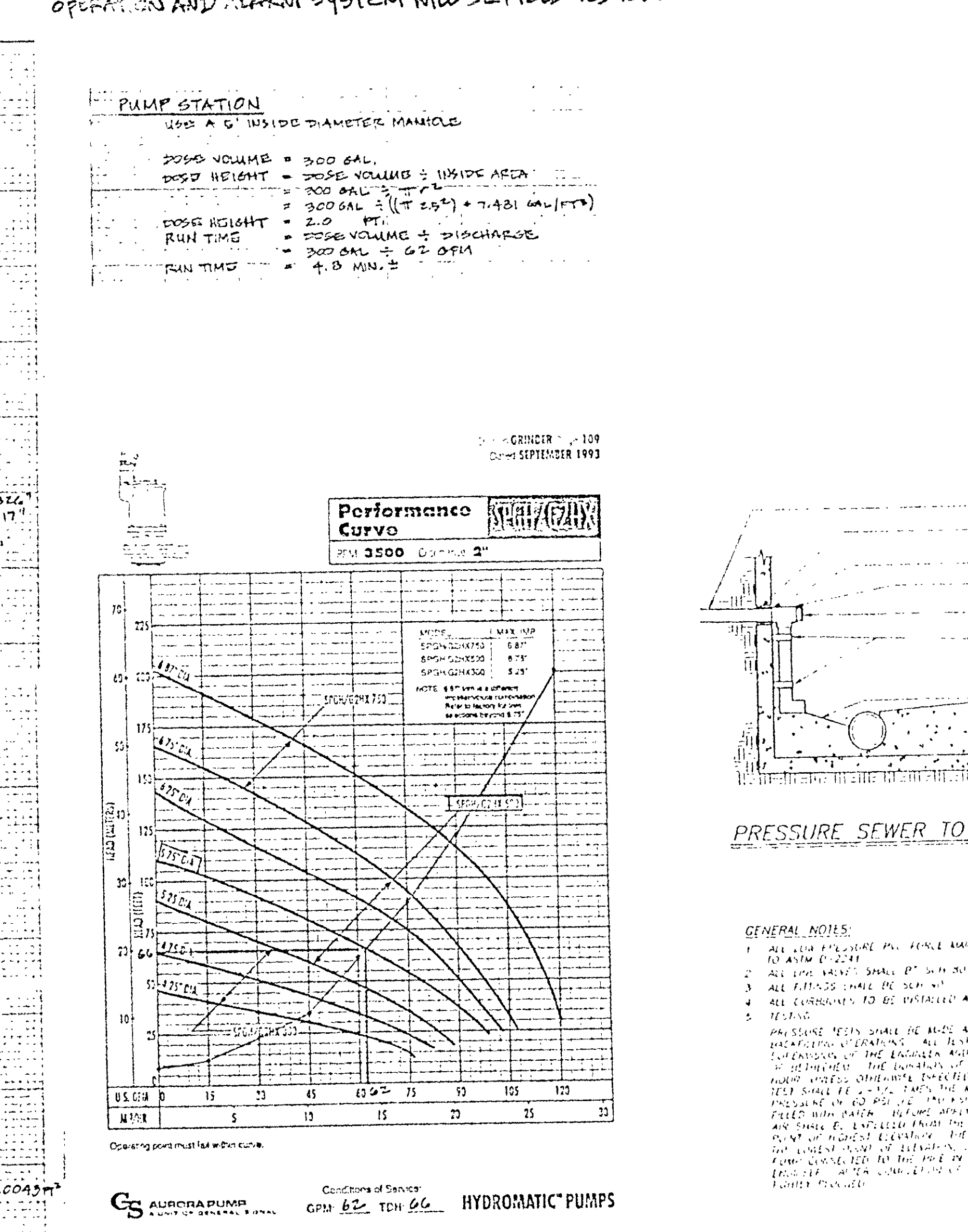


SANITARY SEWER BEDDING DETAIL



COMPONENT ELEVATIONS

FINISHED GRADE	= 226.0
TOP OF FRAME	= 227.0
INV. IN.	= 218.4
ALARM	= 219.6
2ND PUMP ON	= 219.4
1ST PUMP ON	= 219.2
PUMP OFF	= 219.2
INSIDE BOTTOM	= 212.7



HORIZONTAL AND VERTICAL SEPARATIONS NOTES:

SEWERS SHALL BE LAID AT LEAST 10 FEET (3 m) HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATERMAIN. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. IN CASES WHERE IT IS NOT PRACTICAL TO MAINTAIN A 10 FOOT (3 m) SEPARATION, THE SEWER SHALL BE INSTALLED CLOSER TO A WATERMAIN, PROVIDED THAT THE WATERMAIN IS ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER AND AT AN ELEVATION SO THE BOTTOM OF THE WATERMAIN IS AT LEAST 18 INCHES (457 mm) ABOVE THE TOP OF THE SEWER.

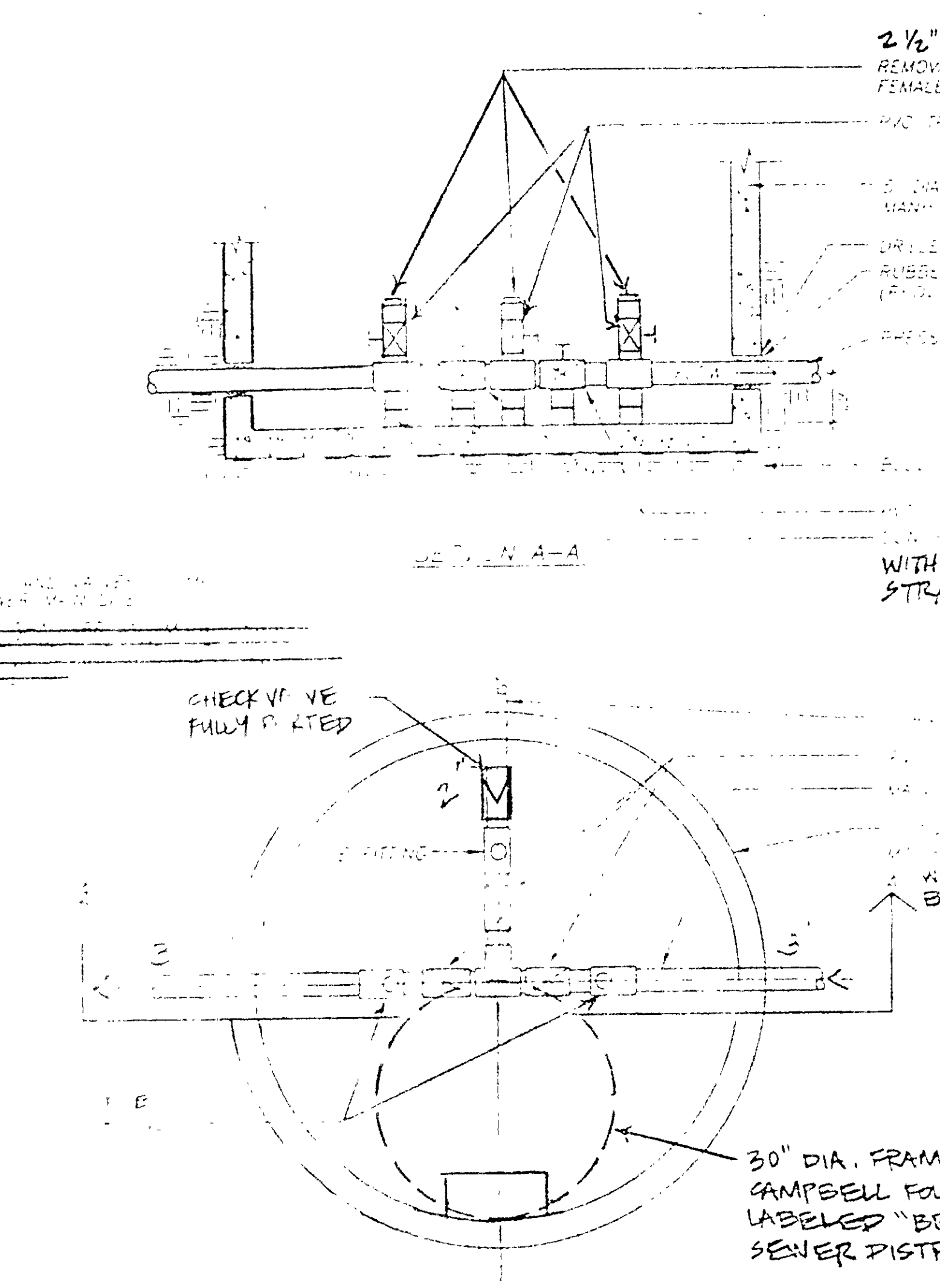
TOWN OF BETHLEHEM STANDARD NOTES:

- ALL UTILITIES TO BE INSTALLED IN ACCORDANCE WITH TOWN STANDARD DETAILS AND SPECIFICATIONS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A SET OF THESE MATERIALS FOR USE ON THE JOB.
- ALL ELEVATION SHOWN ARE USGS ELEVATION BASE.
- PRIOR TO ANY WORK IN DELAWARE AVENUE RIGHT-OF-WAY, THE CONTRACTOR SHALL OBTAIN A HIGHWAY WORK PERMIT FROM NYS DOT.
- PRIOR TO ANY WORK ON SANITARY SEWER AND WATER, THE CONTRACTOR SHALL OBTAIN THE NECESSARY PERMITS FROM THE TOWN SEWER AND WATER DEPARTMENTS.
- FOR ALL AREAS DESIGNATED AS FEDERALLY REGULATED WETLANDS, THE TOWN HAS NO CONTROL OVER AND ACCEPTS NO RESPONSIBILITY FOR FUTURE DRAINAGE PROBLEMS THAT OCCUR IN THESE AREAS. THIS PERTAINS WHETHER SUCH PROBLEMS ARE A RESULT OF LEAVING THE AREAS AS THEY PRESENTLY EXIST, OR AS A RESULT OF FUTURE FILLING IN AND AROUND THE AREAS WITHOUT REGARD FOR LOCAL DRAINAGE PATTERNS.
- PRIOR TO ANY EXCAVATION, CONTRACTOR SHALL CALL THE UFPO TWO WORKING DAYS PRIOR TO THE WORK TO HAVE UNDERGROUND UTILITIES LOCATED IN THE FIELD. CALL 1-800-662-7962.

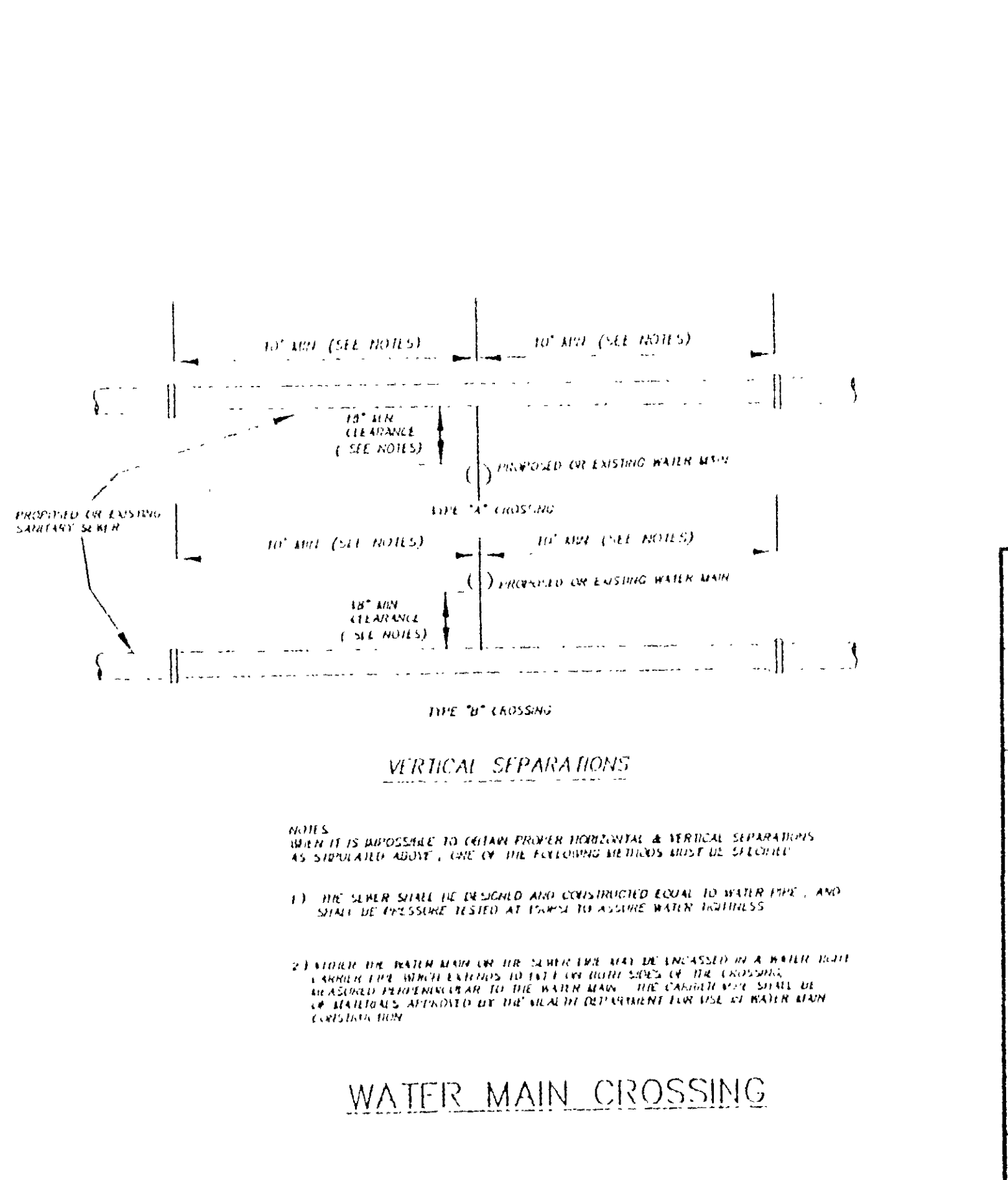
WATER AND SEWER DETAILS:

NOTES:

- ALL WATER AND SANITARY SEWER DETAILS PER TOWN SPECIFICATIONS.
- ALL WATER AND SANITARY SEWER CONSTRUCTION TO BE INSTALLED IN ACCORDANCE WITH TOWN STANDARD DETAILS AND SPECIFICATIONS. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A SET OF THESE MATERIALS MATERIALS FOR USE ON THE JOB.



20" DIA. FRAME & COVER MANHOLE



WATER MAIN CROSSING

GENERAL NOTES:

THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE ENGINEER.

NO SLOPE FROM BOUNDARY OF ADJACENT PROPERTY SHALL EXCEED 3 HORIZONTAL TO 1 VERTICAL.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLANS, SHEETS AND SPECIFICATIONS, AND COORDINATE WORK WITH ALL OTHER CONTRACTORS ON THE SITE.

THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PERFORMING WORK ON THIS JOB SITE DURING THE PERFORMANCE OF THIS CONTRACT.

THE CONTRACTOR SHALL RESTORE LAWNS, DRIVEWAYS, CULVERTS, SIGNS AND OTHER PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED TO AT LEAST AS GOOD A CONDITION AS BEFORE BEING DISTURBED AS DETERMINED BY THE ENGINEER. ANY DAMAGED TREES, SHRUBS AND HEDGES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL COMPLY WITH ALL REQUIRED PERMITS. CONTRACTOR TO TOPSOIL AND SEED ALL DISTURBED AREAS.

THE CONTRACTOR WILL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE ENGINEER OR OWNER, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE UNDER THE SUPERVISION OF A NEW YORK STATE LICENSED LAND SURVEYOR.

CONTRACTOR TO GRADE ALL AREAS ON THE SITE TO PROVIDE POSITIVE DRAINAGE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL FIELD LAYOUT. THE CONTRACTOR SHALL TAKE TIES TO ALL UTILITY CONNECTIONS AND PROVIDE MARKED UP AS-BUILT PLANS FOR ALL UTILITIES SHOWING TIES TO CONNECTIONS, BENDS, VALVES, LENGTHS OF LINES AND INVERTS. AS-BUILT PLANS SHALL BE REVIEWED BY THE OWNER AND HIS REPRESENTATIVE'S AND THE CONTRACTOR SHALL PROVIDE ANY CORRECTION OR ADJUSTMENTS TO THE SATISFACTION OF THE OWNER AND HIS REPRESENTATIVES BEFORE UTILITIES WILL BE ACCEPTED.

THE CONTRACTOR SHALL PROVIDE TEMPORARY SAFETY FENCING AROUND ALL EXCAVATIONS.

THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) ALL PUSH AND RECEIVING PHIS SHALL BE BARRICADED AND PROTECTED IN ACCORDANCE WITH MUTCD PROTECTION SHALL BE PROVIDED FOR VEHICULAR AND PEDESTRIAN TRAFFIC.

THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA, EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPE LINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY BE DIFFERENT FROM THAT SHOWN OR MAY NOT BE SHOWN, AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. 48 HOURS BEFORE YOU DIG, DRILL, OR BLAST, CALL U.F.P.O. 1-800-922-7962 TOLL FREE.

ALL TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH THE LATEST REVISIONS OF NEW YORK STATE INDUSTRIAL CODE RULE 23 AND OSHA REGULATIONS FOR CONSTRUCTION.

CONTRACTOR SHALL BE RESPONSIBLE FOR Dewatering and the MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF THE WORK.

MAINTAIN FLOW FOR ALL EXISTING UTILITIES.

ALL NEW MANHOLES AND VALVE BOXES CONSTRUCTED WITHIN PAVED AREAS SHALL HAVE THE TOPS SET FLUSH WITH THE EXISTING PAVEMENT GRADE. IN UNPAVED AREAS, ALL FRAMES SHALL BE 0.1' ABOVE GRADE.

BEFORE CONSTRUCTING LINES TO CONNECT TO EXISTING UTILITIES, VERIFY EXISTING UTILITY INVERTS AND NOBBY ENGINEER IF ANY VARIATION FROM THE PLANS IS REQUIRED.

EXPLORATORY EXCAVATIONS SHALL BE PERFORMED AS NEEDED BY THE CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO WORK IN CONGESTED UTILITY AREAS.

COORDINATE LOCATION OF UTILITY CONNECTIONS WITH THE ARCHITECTURAL PLANS.

THE CONTRACTOR IS DIRECTED TO COMPLY WITH TOWN OF BETHLEHEM D.P.W. STANDARD SPECIFICATIONS WHEN INSTALLING THE SANITARY SEWER SYSTEM AND MODIFYING EXISTING SANITARY SEWER FACILITIES. THE ALBANY COUNTY HEALTH DEPARTMENT, TOWN OF BETHLEHEM AND THE ENGINEER ARE TO BE NOTIFIED 48 HOURS PRIOR TO UNDERTAKING ANY WORK ON SANITARY SEWER FACILITIES (EXISTING AND PROPOSED) IN NO CASE WILL SUMP PUMPS, ROOF DRAINS OR GROUND DRAINS BE ALLOWED TO BE CONNECTED TO SANITARY SEWER LINE.

ALL WATER LINES AND SANITARY SEWER FORCE MAIN SHALL BE 4' AND 6' DEEP RESPECTIVELY. FINISHED GRADE TO THE TOP OF THE PIPE AS A MINIMUM. THE CONTRACTOR SHALL CONSTRUCT THE LINE SO THAT ALL CROSSINGS WITH OTHER UTILITIES HAVE THE REQUIRED CLEARANCE. INVERTS AT THE WATER AND SEWER CROSSINGS ARE NOTED ON THE PLANS.

ALBANY COUNTY DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH SERVICES.

By direction of the Commissioner of Health, these plans are hereby approved. See first sheet for date and signature.

CONSTRUCTION DETAILS
WATERMAIN & SANITARY SEWER EXTENSION
ALONG DELAWARE AVENUE

TOWN OF BETHLEHEM
STATE OF NEW YORK

ADD ENGINEERS & SURVEYORS
411 Union Street, Schenectady, N.Y. 12305
518-377-0315 Fax: 518-377-0379

DATE: JULY 1999 SCALE: AS SHOWN DWG: 2184A-S SHEET OF 3