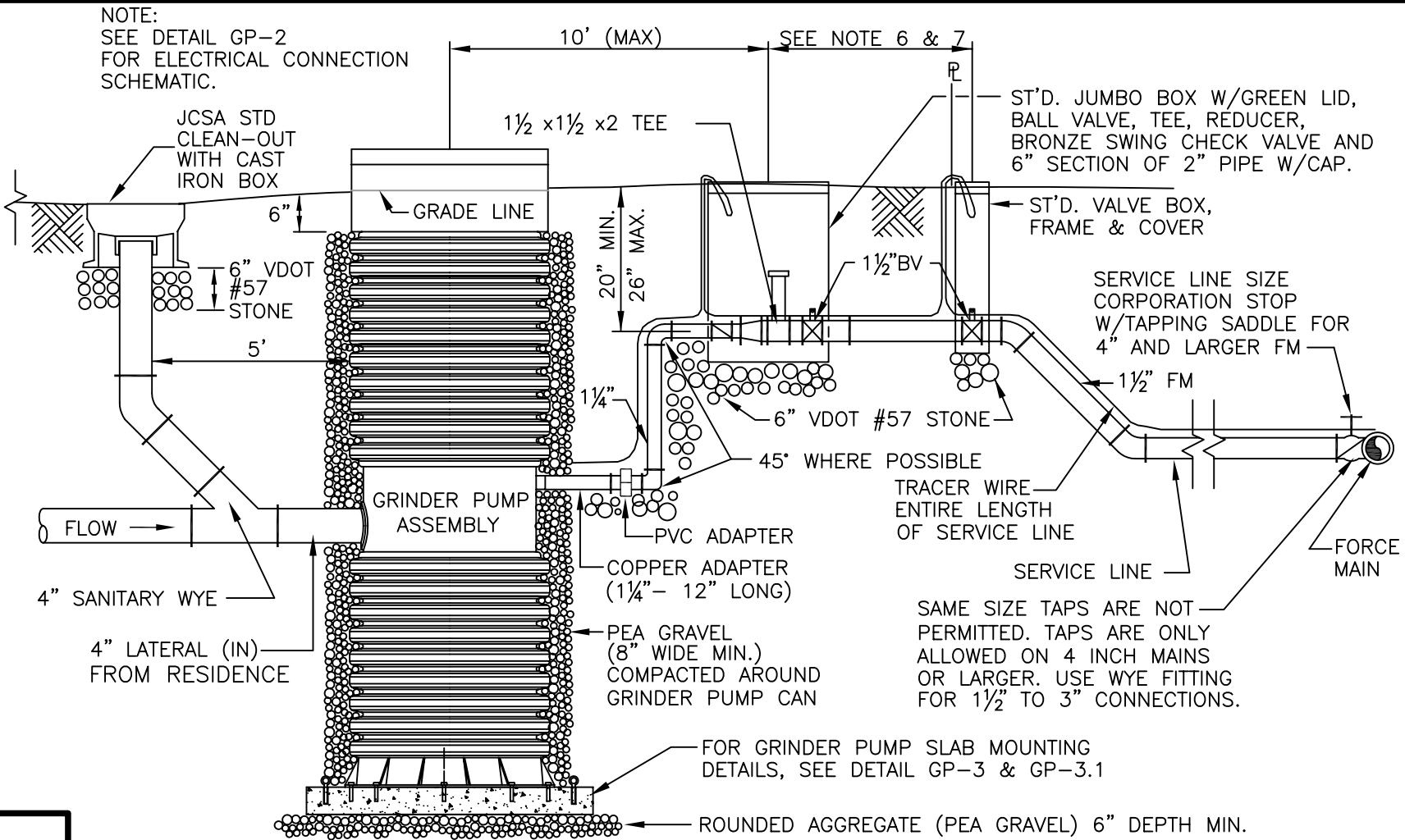


REVISION DATE	COMMENT
JUNE 2004	DELETED APPENDIX REFERENCE, ADDED REVISION BLOCK
JUNE 2004	DELETED GATE VALVE REFERENCE
NOV. 2004	ADDED TRACER WIRE
JULY 2005	ADDED NOTE 10



- NOTES:
- GRINDER PUMPS SHALL BE LOCATED ON EACH LOT/PARCEL AS SHOWN ON THE APPROVED DEVELOPMENT PLANS AND A MINIMUM OF 10 FEET AWAY FROM FOUNDATIONS & STRUCTURES.
  - FORCE MAIN TRAP IS REQUIRED WHEN DISCHARGING INTO A GRAVITY SYSTEM
  - GRINDER PUMP ASSEMBLIES SHALL BE "ENVIRONMENT-1" MODEL 2010 AS MANUFACTURED BY ENVIRONMENT ONE CORPORATION.
  - SADDLES MAY BE USED FOR CONNECTIONS TO GRAVITY SEWERS.
  - ALL MATERIALS AND INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
  - SHUT OFF VALVE SHALL BE LOCATED AT PROPERTY LINE.
  - SHUT OFF VALVE MAY BE DELETED WHEN JUMBO VALVE BOX CONNECTION IS LOCATED ON/AT THE PROPERTY LINE.
  - THE LOCK AND PUMP WRENCH DELIVERED WITH THE GRINDER PUMP ARE TO BE LEFT IN THE CAN UNTIL JCSA PERSONNEL ARRIVE.
  - THE GRINDER PUMP FORCE MAIN SHALL BE TESTED AT 1 1/2 TIMES THE WORKING PRESSURE OR 150 PSI WHICHEVER IS GREATER.
  - BALL VALVES SHALL BE USED ON LINES SMALLER THAN 3-INCHES IN DIAMETER AND SHALL BE CAST BRASS, TEE HEAD, WITH THREADED CONNECTIONS. VALVES SHALL BE AS MANUFACTURED BY THE FORD METER BOX COMPANY, INC. B11 OR MUELLER COMPANY 300 BALL CURB VALVE B-20283.

**JCSA**  
JAMES CITY SERVICE AUTHORITY

**RESIDENTIAL GRINDER PUMP  
INSTALLATION**

DWG NO. GP-1  
SCALE: NONE

DWN BY: DATE: 1-1-2002