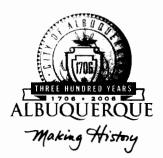
CITY OF ALBUQUERQUE



April 5, 2006

Christian J. Sholtis, PE Bohannan Huston, Inc 7500 Jefferson St. NE Albuquerque, NM 87109

Re: NMUI Well Site No. 8, Stonebridge Pointe, Lot B2-Grading & Drainage Plan Engineer's Stamp dated 3-9-06 (A12-D22A)

Dear Mr. Sholtis,

Based upon the information provided in your submittal dated 3-9-06, the above referenced plan is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. Additionally, prior to release of the Certificate of Occupancy an Engineer's Certification of the grading plan per the DPM checklist will be required.

Albuquerque This project requires a National Pollutant Discharge Elimination System (NPDES) permit. Refer to the attachment that is provided with this letter for details. If you have any questions please feel free to call the Municipal Development Department Hydrology section at 768-3654 (Charles Caruso).

New Mexico 87103

If you have any questions, you can contact me at 924-3990.

www.cabq.gov

P.O. Box 1293

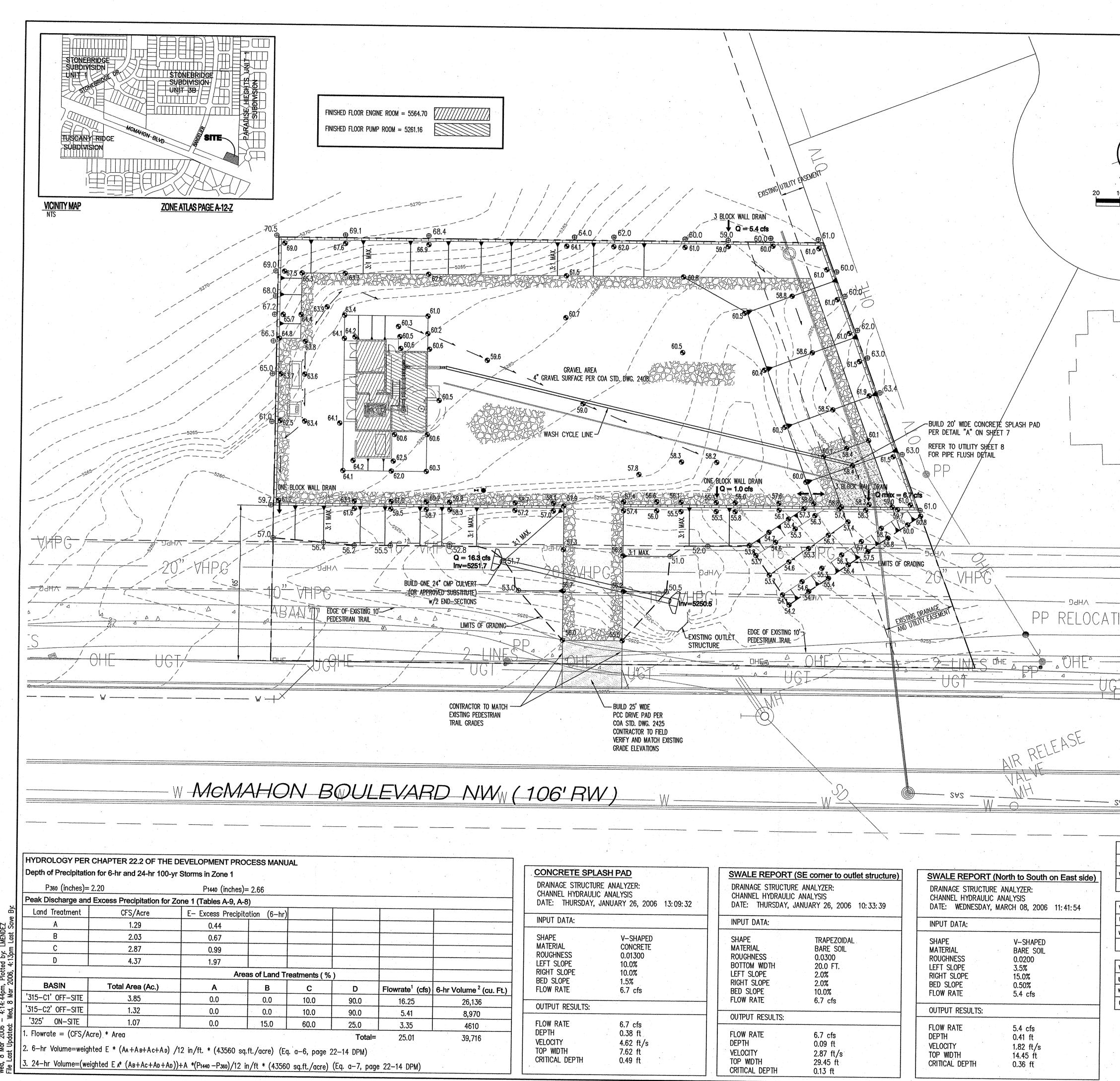
Sincerely,

Renelip J. Jose

Phillip J. Lovato, E.I., C.F.M. Engineering Associate, Hydrology, Development and Building Services, Planning Department

cc: Charles Caruso, DMD file

Albuquerque - Making History 1706-2006

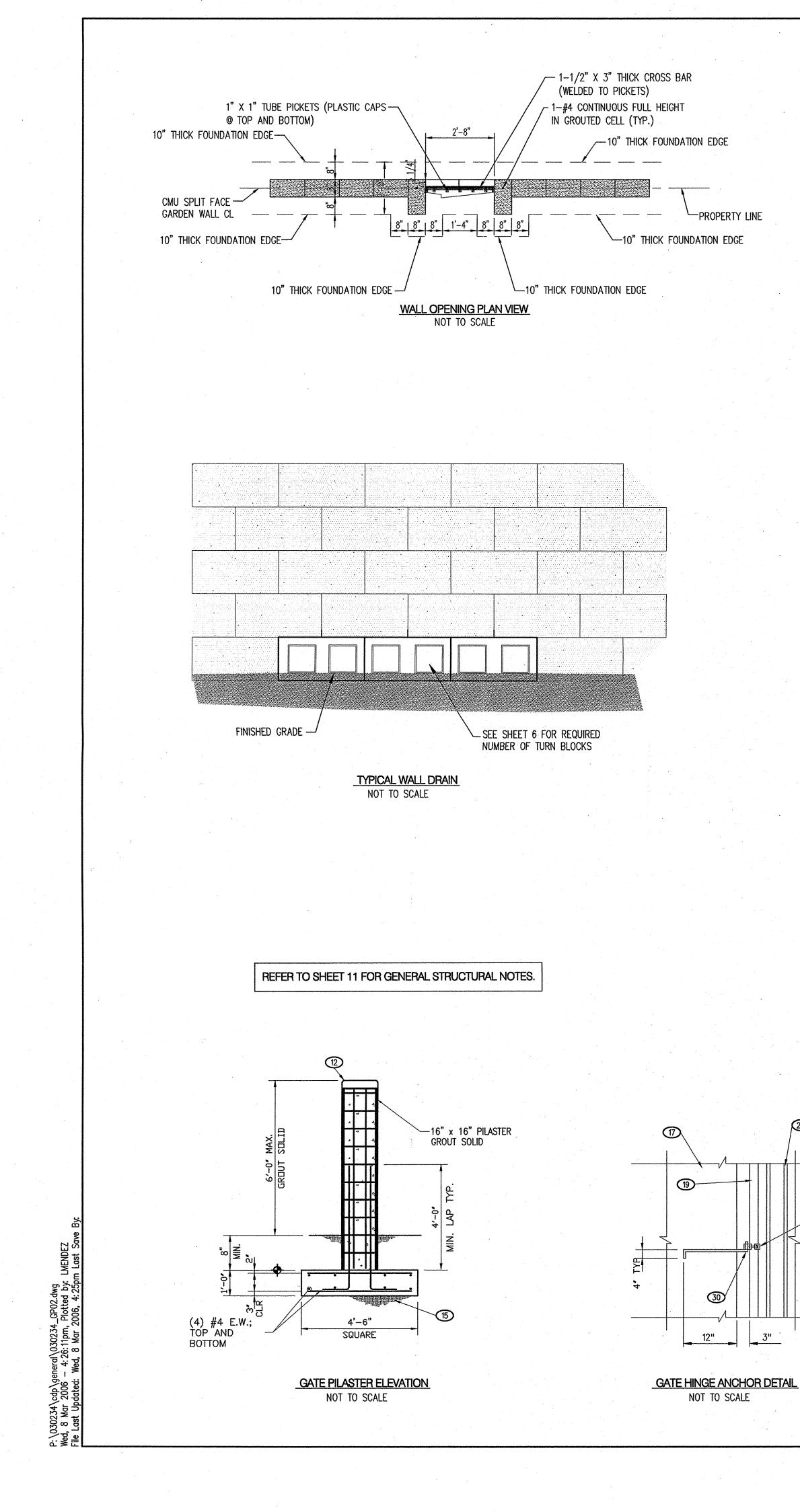


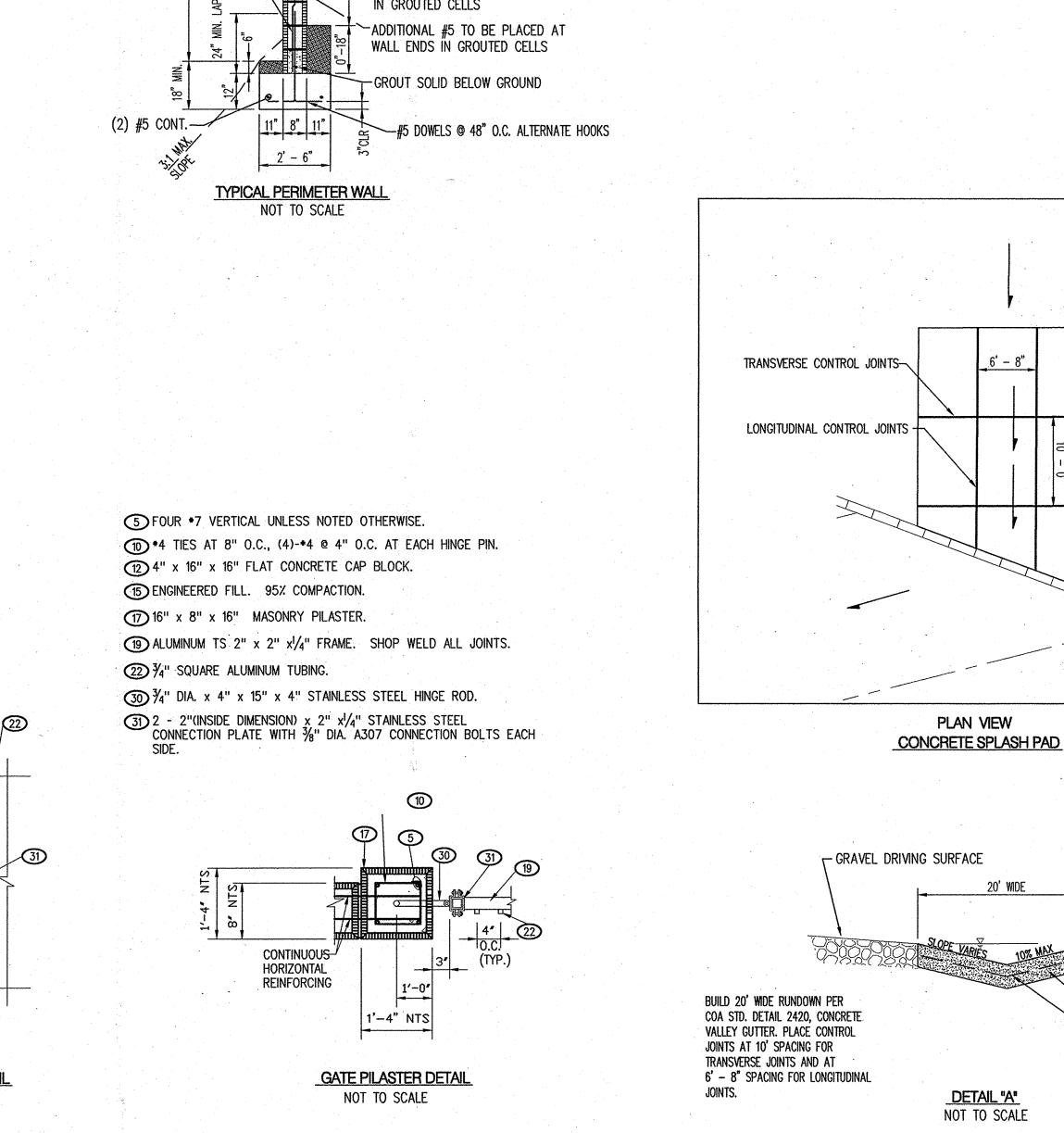
SWALE REPORT (SE corner to outlet structure
DRAINAGE STRUCTURE ANALYZER: CHANNEL HYDRAULIC ANALYSIS DATE: THURSDAY, JANUARY 26, 2006 10:33:39
INPUT DATA:
SHAPETRAPEZOIDALMATERIALBARE SOILROUGHNESS0.0300BOTTOM WIDTH20.0 FT.LEFT SLOPE2.0%RIGHT SLOPE2.0%BED SLOPE10.0%FLOW DATE0.7%
FLOW RATE 6.7 cfs
OUTPUT RESULTS:FLOW RATE6.7 cfsDEPTH0.09 ftVELOCITY2.87 ft/sTOP WDTH29.45 ft

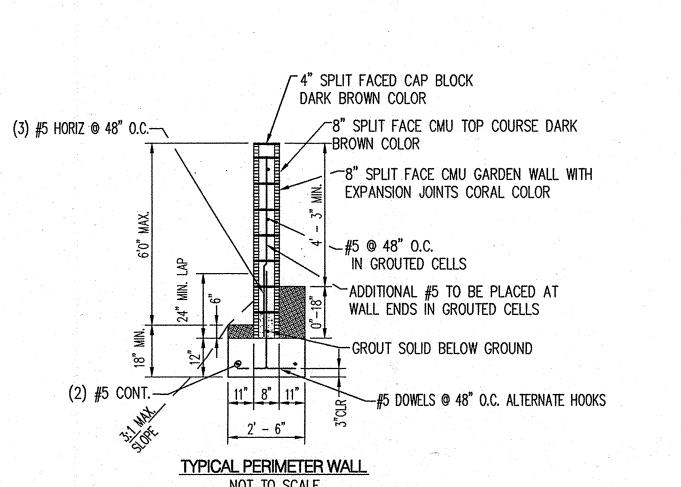
	GENERAL NOTES 1. CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION. 2. THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE, AND FEDERAL DUST CONTROL MEASURES & REQUIREMENTS AND WILL BE RESPONSIBLE FOR PREPARING AND OBTAINING ALL NECESSARY APPLICATIONS AND APPROVALS. 3. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE LOT INTO PUBLIC RIGHT-OF-WAY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AND WETTING THE SOIL TO KEEP IT FROM BLOWING. 4. ALL WALLS SHOWN ARE TO BE PLACED ALONG PROPERTY LINE, EXCEPT FOR WALLS ON THE EAST AND SOUTH SIDE. THE SOUTH WALL IS APPROXIMATELY 65' NORTH OF THE
$20 10 0 \qquad 20$ $1'' = 20'$	SOUTHERN PROPERTY LINE. THE EAST WALL SHALL BE BUILT 18" FROM THE FACE OF THE WALL TO THE PROPERTY LINE SO THAT THE EXISTING FENCE OR WALL MAY BE LEFT UNDISTURBED. WALLS ARE SHOWN OFFSET FOR VISUAL PURPOSES ONLY. 5. ALL DISTURBED AREAS NOT RECEIVING PERMANENT TREATMENT SHALL BE RE-VEGETATED PER CITY OF ALBUQUERQUE SPECIFICATIONS.
	GRADING AND DRAINAGE PLAN THE WELL SITE IS LOCATED ON A 1.1 ACRE LOT (BASIN DB 325) WITH ONLY 0.6 ACRES BEING AFFECTED. THE PROPERTY DOES NOT LIE WITHIN A FLOOD HAZARD ZONE, AS DESIGNATED ON PANEL 104 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAP PUBLISHED BY FEMA FOR BERNALILLO COUNTY, NEW MEXICO. ALL DRAINAGE CALCULATIONS ARE DONE IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, CHAPTER 22.2. THE DESIGN STORM IS THE 100-YEAR 6-HOUR STORM IN ZONE 1 (DPM CHAPTER 22.2, FIGURE A-1). PLEASE REFER TO THE "STONEBRIDGE POINTE PARCELS A&B DRAINAGE REPORT" DATED DECEMBER 6, 2004 FOR ADDITIONAL INFORMATION. EXISTING CONDITIONS THE PROJECT SITE IS UNDEVELOPED AND SURROUNDED BY
BUILD 20' MDE CONCRETE SPLASH PAD PER DETAIL "A" ON SHEET 7 REFER TO UTILITY SHEET 8 FOR PIPE FLUSH DETAIL	UNDEVELOPED LAND TO THE NORTH AND WEST. THE PROPERTY IS BOUNDED BY McMAHON BLVD. TO THE SOUTH, AND RESIDENTIAL DEVELOPMENT TO THE EAST. FUTURE OFFSITE FLOWS (BASIN DB 315-C2) COMING ONTO THE SITE WOULD BE FROM A SMALL PORTION OF LAND TO THE NORTH AND CALCULATED FOR DEVELOPED CONDITIONS. THESE FLOWS WOULD BE DIRECTED TO A WALL OPENING AT THE NORTHEAST CORNER AND CONVEYED THROUGH THE SITE BY AN EARTHEN SWALE. REFER TO THIS SHEET FOR SWALE AND WALL DRAIN CALCULATIONS.
боля 50.18 Боля Боля Боля Эсни Водни	FOR THE CONDITIONS PROPOSED IN THIS GRADING PLAN, THERE WILL BE SOME DEVELOPED FLOW PRODUCED. THIS ON-SITE FLOW COMBINED WITH THE OFF-SITE FLOW WILL BE DIRECTED TO AN EXISTING OUTLET STRUCTURE LOCATED ON THE EAST SIDE OF THE ENTRANCE ROAD. THIS INLET IS CONNECTED TO THE MCMAHON STORM DRAIN SYSTEM WHICH HAS SUFFICIENT CAPACITY TO HANDLE DEVELOPED FLOW FROM THIS SITE. A TWO-HOUR WASH CYCLE FOR THE WELL WILL ALSO BE SENT TO THE INLET AND THE MCMAHON STORM DRAIN. THE WASH CYCLE WILL ONLY HAPPEN IN THE CASE OF AN EMERGENCY. THE CONCRETE SPLASH PAD AND SWALE IS DESIGNED FOR THE GREATER OF THE WASH CYCLE FLOW OR DEVELOPED RUNOFF FROM THE 100-YEAR DESIGN STORM. FLOW FROM AN OFFSITE DRAINAGE BASIN (BASIN DB 315-C1) WILL BE CONVEYED BY A CULVERT UNDER THE ENTRANCE ROAD AND DISCHARGED INTO THE EXISTING OUTLET STRUCTURE.
PRANNAGE PRANNAGE PRANNAGE PRANNAGE PP RELOCATION PP RELOCATION	LEGEND S, AUDIN S, AU
- UGT	
W-O-SAZ-M	FLOW ARROW PROPOSED GARDEN WALL PROPOSED SLOPE VARIES, 3:1 MAX. WALL DRAIN LIMITS OF GRADING
SWALE REPORT (North to South on East side) where $C = 0.6$, $h = 3.3$, and	
DATE:WEDNESDAY, MARCH 08, 200611: 41: 54WALL DRAIN CALCULATION (1 BLINPUT DATA:USING ORIFICE EQUATION:Q =where C= 0.8, h= 0.67', and	C*A 12gh INEW MEXICO UTILITIES, INC. A= 0.5 S.F. NEW MEXICO UTILITIES INC.
MATERIALBARE SOILROUGHNESS0.0200LEFT SLOPE3.5%RIGHT SLOPE15.0%USING ORIFICE EQUATION:Q(actual)	WELL NO. 8
BED SLOPE FLOW RATE 0.50% $5.4 cfs$ where C= 0.8, h= 0.67', and Q(capacity) = 7.9 cfsOUTPUT RESULTS: $Q(capacity) = 7.9 cfs$ $Q(actual) =$	A= 1.5 S.F. = 6.7 cfs Design Review Committee City Engineer Approval • • </th
FLOW RATE5.4 cfsROUGH GRADINGDEPTH0.41 ftVELOCITY1.82 ft/sTOP WIDTH14.45 ftCRITICAL DEPTH0.36 ft	(±0.5'): City Project No. Zone Map No. Drawing No. Sheet Of
APPROVED FOR ROUGH GRADING	DATE DATE $A-12$ $C4$ 6 29

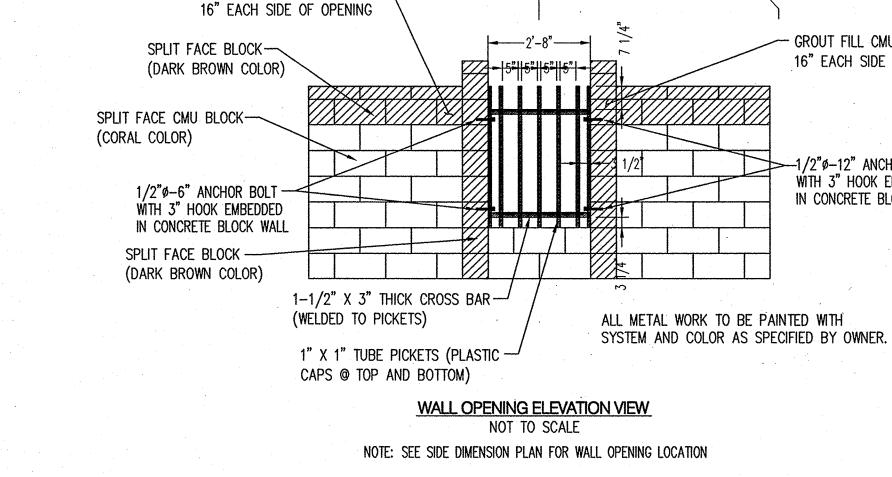
BHI JOB NO. 030234

Date: 03.08.06









GROUT FILL CMU CELLS MIN -

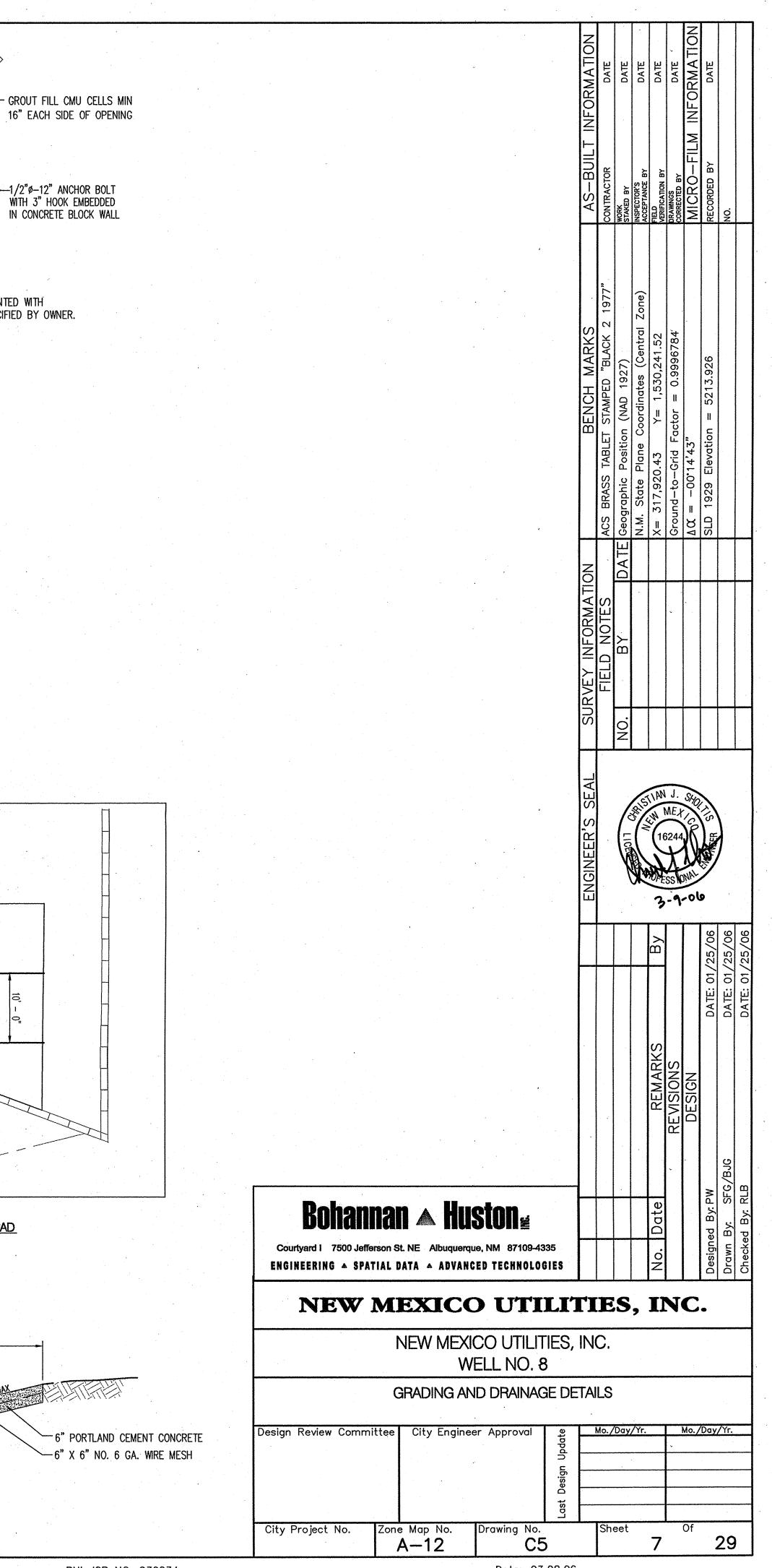
OPENINGS 19'-4" MAX. O.C.

.6' - 8"

PLAN VIEW

20' WDE

_**DETAIL "A"** NOT TO SCALE



BHI JOB NO. 030234

Date: 03.08.06