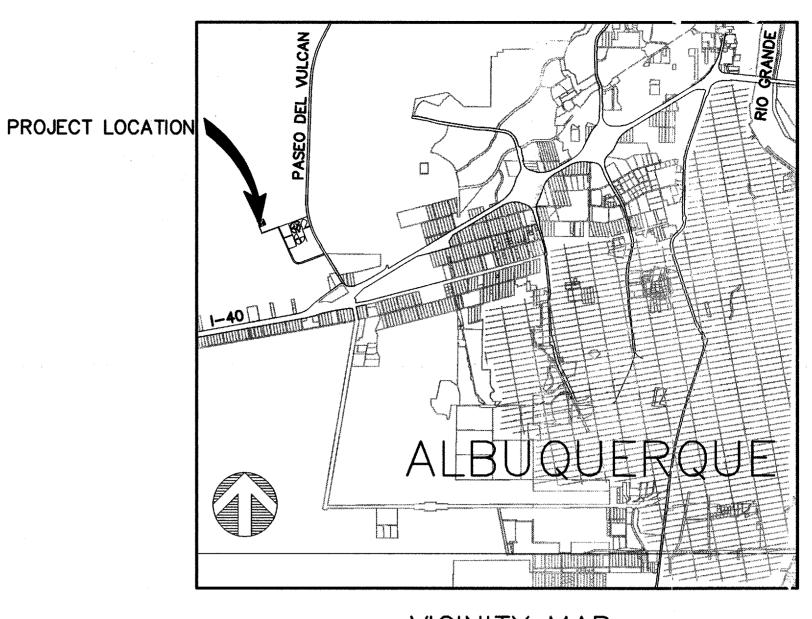
TO THE PARTY OF THE TAXABLE PARTY OF THE PAR

BERNALILLO COUNTY, NEW MEXICO
PUBLIC WORKS DEPARTMENT
CONSTRUCTION PLANS
FOR

INDUSTRIAL PARK WATER SYSTEM
1.25 MG RESERVOIR

BID PACKAGE B BC PROJECT NO. TS 04-07-B



ZONE ATLAS MAP K-4, K-5

DRAWING INDEX

SHEET NO. DESCRIPTION

1 COVER SHEET

GENERAL NOTES

TANK LOCATION MAP

1.25 MG TANK PLAN, ELEVATION & DETAILS

1.25 MG TANK INTERIOR PLAN, SECTIONS & DETAILS

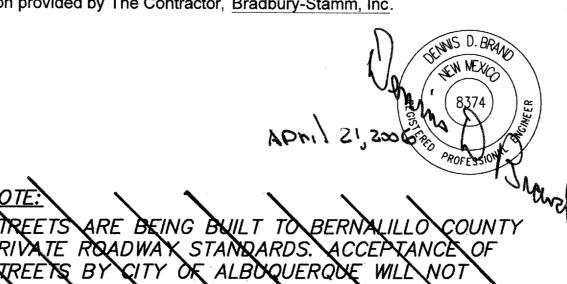
ALTERNATE-1.0 MG TANK PLANS, ELEVATION & SECTION (THIS SHEET NOT USED)

PLATFORM & MISCELLANEOUS DETAILS

MISCELLANEOUS TANK DETAILS
MISCELLANEOUS DETAILS

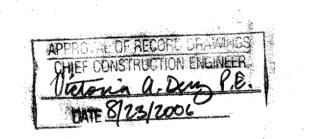
CERTIFICATE OF SUBSTANTIAL COMPLIANCE OF PLANS

I, <u>Dennis D. Brand</u>, of the firm <u>Wilson & Company</u>, <u>Inc</u>, a Registered Professional Engineer in the State of New Mexico, NMPE number <u>8374</u>, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer/Water Utility Authority Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction and survey and as-built drawing information provided by The Contractor, <u>Bradbury-Stamm</u>, Inc.



WCEA FILE NO. X4210019 BID PKG. B — MARCH 2005 APPROVED FOR CONSTRUCTION

BERNALILLO COUNTY PUBLIC WORKS



APPROVED FOR CONSTRUCTION

ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY

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CPN 760682

STANDARD SPECIFICATIONS

ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH: (1) THE LATEST VERSION OF THE BERNALILLO COUNTY PUBLIC WORKS STANDARDS, (2) "THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986," UPDATE (REFERRED TO HEREAFTER AS THE COA STANDARD SPECIFICATIONS), (3) THE NEW MEXICO STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, LATEST EDITION OR (4) AS MODIFIED BY THE PROJECT SPECIFICATIONS. IN CASE OF CONFLICT, THE PROJECT SPECIFICATIONS SHALL GOVERN.

NOTIFICATIONS

- FIVE (5) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT N.M. ONE-CALL SYSTEM, 260-1990, FOR LOCATION OF EXISTING UTILITIES.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS NECESSARY FOR CONSTRUCTION. PERMITS SHALL BE ACQUIRED A MINIMUM OF TWO WEEKS PRIOR TO CONSTRUCTION. CONTACT BERNALILLO COUNTY PUBLIC WORKS DEPARTMENT (848–1500) AND CITY OF ALBUQUERQUE (768–2551) FOR INFORMATION. A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ANY STREET CLOSURES AND PRIOR TO ANY WORK WITHIN RIGHT-OF-WAY, THE CONTRACTOR SHALL NOTIFY IN WRITING THE FIRE DEPARTMENT AND SHERIFF'S DEPARTMENT FOR THE APPROPRIATE JURISDICTION.

-(924-3400)

FOR ALL WORK ASSOCIATED WITH PROJECT CONTRACTOR IS REQUIRED TO OBTAIN AN EXCAVATION PERMIT PRIOR TO THE START OF ANY WORK WITHIN COUNTY RIGHT—OF—WAY, OR LAND CONTROLLED BY THE COUNTY. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE BERNALILLO COUNTY PUBLIC WORKS DEPARTMENT, FIRE DEPARTMENT AND SHERIFF'S DEPARTMENT IN WRITING, A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ANY STREET CLOSURES AND PRIOR TO ANY WORK WITHIN COUNTY RIGHT—OF—WAY.

<u>UTILITIES</u>

- 1. ALL EXISTING UNDERGROUND UTILITIES (AND ABOVE GROUND OBSTACLES/UTILITIES) MAY NOT BE SHOWN HEREON AND ALL EXISTING UTILITIES/OBSTACLES THAT ARE SHOWN ON THE PLAN ARE APPROXIMATE LOCATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT UTILITY OWNERS, AND CONDUCT NECESSARY FIELD INVESTIGATIONS TO VERIFY ACTUAL HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES AND/OR OBSTACLES PRIOR TO ANY EXCAVATION AND/OR CONSTRUCTION. SHOULD A CONFLICT BE FOUND, NOTIFY THE ENGINEER SO CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- 2. EXERCISE CARE TO AVOID DISTURBING EXISTING UTILITIES, AND COORDINATE WITH THE UTILITY COMPANIES IN ORDER TO PREVENT ANY SERVICE DISRUPTION.
- WHICH ARE NOT SPECIFICALLY DESIGNATED TO BE REMOVED AND REPLACED ON THE PLANS. EMPLOY SHORING, SHEETING, AND OTHER MEANS OF SUPPORT TO PREVENT DAMAGE OR LOSS OF THESE EXISTING UTILITIES. BEAM AND CABLE OR OTHER ADEQUATE SUPPORTS SHALL BE USED FOR TEMPORARY SUPPORT OF ALL UTILITY LINES WHICH CROSS THE TRENCH. ANY DAMAGE TO EXISTING UTILITIES SHALL BE PROMPTLY REPAIRED AT THE CONTRACTOR'S EXPENSE. THE ENGINEER WILL BE IMMEDIATELY NOTIFIED OF ANY SIGNIFICANT DEVIATION OF EXPOSED UTILITIES FROM THE LOCATIONS SHOWN ON THE PLANS SO THAT THE CONFLICT CAN BE RESOLVED IN A TIMELY MANNER.
- 4. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND MAINTAIN IN SERVICE ALL EXISTING UTILITIES. THIS WORK WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE CONSIDERED.
- 5. ALL WATER VALVE BOXES WITHIN THE SITE ARE TO BE ADJUSTED TO FINISH GRADE PER COA STANDARD SPECIFICATIONS AND ARE TO BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
- 6. CONTRACTOR SHALL COORDINATE ANY WATER VALVE SHUTOFF OPERATION WITH THE WATER SYSTEMS DIVISION (857-8200) NOT LESS THAN SEVEN (7) WORKING DAYS PRIOR TO INITIATING ANY WORK AFFECTING EXISTING WATER UTILITIES. WATER SERVICE SHALL BE MAINTAINED TO ALL CUSTOMERS DURING CONSTRUCTION.
- 7. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF ALL WATER FROM DEWATERING ACTIVITIES (IF ANY). CONTRACTOR SHALL BE RESPONSIBLE TO MAKE NECESSARY ARRANGEMENTS WITH WESTLAND CORP. FOR USE OF DITCHES AND/OR DRAINS ON PRIVATE LAND FOR THIS PURPOSE.
- 8. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TRENCHES IN A SAFE CONDITION.
- QWEST HAS NOT PROVIDED ANY INFORMATION OF THEIR UTILITIES DURING THE DESIGN PROCESS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCATION OF THIS AND OTHER UTILITIES AT ALL LOCATIONS, REGARDLESS OF EXISTING UTILITIES AS SHOWN ON DRAWINGS.

MISCELLANEOUS NOTES:

- 1. PROVIDE A WEEKLY CONSTRUCTION ACTIVITY SCHEDULE TO BERNALILLO COUNTY PUBLIC WORKS DEPARTMENT, ATTN: CONSTRUCTION PROJECT MANAGER. PHONE NO. 848-1500.
- 2. COMPLIANCE WITH U.S. E.P.A. REGULATIONS FOR ALL SOILS DISTURBANCES, EROSION CONTROL AND TEMPORARY DISCHARGE MEASURES SHALL BE PART OF THE "WORK AS REQUIRED" UNDER THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) REGULATIONS FOR STORMWATER DISCHARGES FROM CONSTRUCTION SITES. THE WORK CONSISTS OF DEVELOPING A <u>SITE—SPECIFIC</u> STORM WATER POLUTION PREVENTION PLAN (SWPPP). THIS WORK IS THE RESPONSIBILITY OF THIS CONTRACTOR, DURING CONSTRUCTION PERIOD. SPECIFICS OF SCOPE SHALL BE AS DETAILED IN THE CITY OF ALBUQUERQUE SUPPLEMENTAL TECHNICAL SPECIFICATION "SECTION 630—NPDES COMPLIANCE".
- 3. REMOVE FROM THE PROJECT AREA ALL EXCAVATED MATERIAL THAT IS NOT REQUIRED TO BE REUSED WITHIN FOUR DAYS OF EXCAVATION. SPOIL PILES WILL BE ALLOWED ONLY AS DIRECTED BY THE CONSTRUCTION ENGINEER.
- 4. COORDINATE CONSTRUCTION ACTIVITIES WITH ALL OTHER CONTRACTORS AND UTILITY COMPANIES WORKING IN THE SAME AREA. IT MAY BE REQUIRED TO RESCHEDULE ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCE CAUSED BY UTILITY COMPANY WORK CREWS.
- 5. THE CONTRACTOR SHALL PROVIDE CONSTRUCTION STAKING AND SURVEYING FROM COORDINATES, GRADES, AND BENCH MARKS SHOWN ON THE PLANS, OR MODIFIED IN THE FIELD BY THE ENGINEER, FOR ALL ITEMS OF WORK WHICH REQUIRE CONSTRUCTION STAKING AND SURVEYING. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO REESTABLISH ANY MISSING REFERENCE POINTS REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT. THIS WORK SHALL INCLUDE BUT NOT BE LIMITED TO, ALL SEWER LINES, WATER LINES, SERVICE LINES, AND IRRIGATION STRUCTURES. ALL COSTS INCURRED IN PROVIDING SUCH CONSTRUCTION STAKING AND SURVEYING WORK SHALL BE PAID AS SHOWN IN THE BID PROPOSAL.
- 6. THE CONTRACTOR SHALL BE REQUIRED TO CONFINE HIS WORK WITHIN THE CONSTRUCTION LIMITS AND/OR PUBLIC RIGHT—OF—WAY OR EASEMENTS TO PRESERVE EXISTING VEGETATION, FENCES, WALLS, AND PRIVATE PROPERTY. OVERNIGHT PARKING OF EQUIPMENT AND/OR STORAGE OF MATERIALS IS NOT ALLOWED EXCEPT BY PERMISSION OF OWNER. RESTORATION OF PRIVATE IMPROVEMENTS WILL BE AT THE CONTRACTOR'S EXPENSE.
- 7. IF CULTURAL RESOURCES, SUCH AS HISTORIC OR PREHISTORIC ARTIFACTS, OR HUMAN REMAINS ARE DISCOVERED DURING EXCAVATION OR CONSTRUCTION, WORK SHALL CEASE AND THE CONSTRUCTION ENGINEER WILL BE NOTIFIED. THE CONSTRUCTION ENGINEER SHALL NOTIFY THE STATE HISTORIC PRESERVATION OFFICER (SHPO) AT (505) 827-6320. WORK MAY PROCEED AFTER COORDINATION WITH SHPO IS COMPLETE.
- 3. CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL DEMOLITION DEBRIS. SALVAGE OF ANY MATERIAL SHALL BE IDENTIFIED BY THE COUNTY PROJECT MANAGER. WORK MATERIALS SHALL BE DISPOSED OF IN COUNTY APPROVED WASTE AREAS SECURED BY AND AT THE EXPENSE OF THE CONTRACTOR.
- 9. THE <u>CONTRACTOR</u> SHALL PROVIDE THE <u>CONSTRUCTION ENGINEER</u> WITH "AS-BUILT" INFORMATION INCLUDING SURVEYED ELEVATIONS FOR ALL FACILITIES PRIOR TO FINAL CONTRACT PAYMENT.
- 10. <u>CONTRACTOR</u> SHALL PLACE EMD MARKERS AT ALL LINE STUBOUTS FROM THE TANK, UNLESS LINES END IN A VALVE.
- 11. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.
- 12. PADLOCKS: CONTRACTOR SHALL PROVIDE, AT NO ADDITIONAL COST, A TOTAL OF SIX (6) KEY OPERATED PADLOCKS. PADLOCKS SHALL MEET THE OWNERS REQUIREMENT PRIOR TO ACCEPTANCE.

COORDINATION WITH PUBLIC

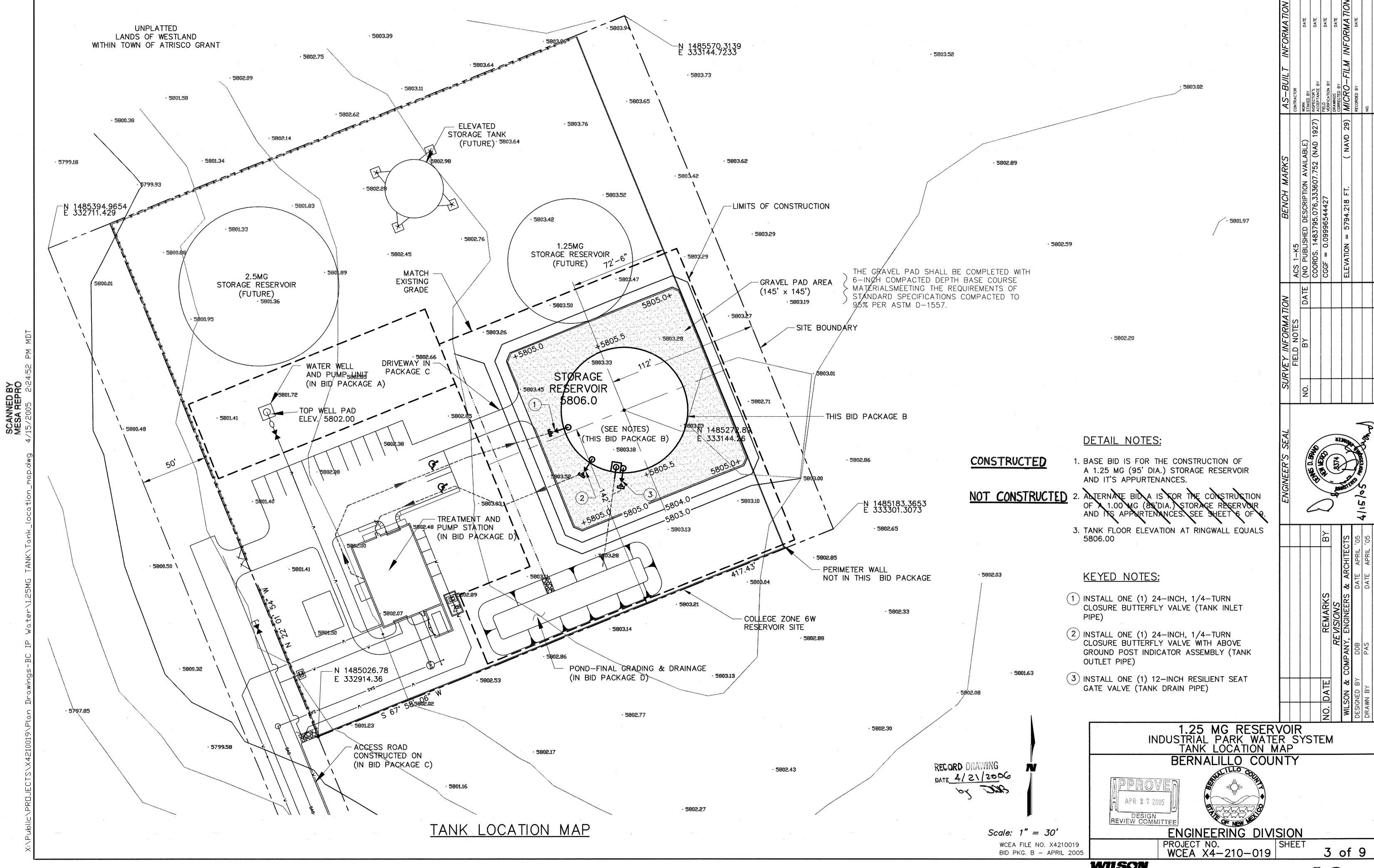
SPECIAL NOTICES:

HAND DELIVER SPECIAL NOTICES TO EACH RESIDENCE OR BUSINESS ADJACENT TO THE CONSTRUCTION AREA AND TO OTHERS WHICH MAY BE AFFECTED BY THE CONSTRUCTION ACTIVITIES. SPECIAL NOTICES ARE TO INFORM RESIDENTS AND BUSINESSES IN WRITING WHENEVER ACCESS, UTILITY SERVICES OR OTHER SERVICES TO THEIR PROPERTY MAY BE IMPAIRED.

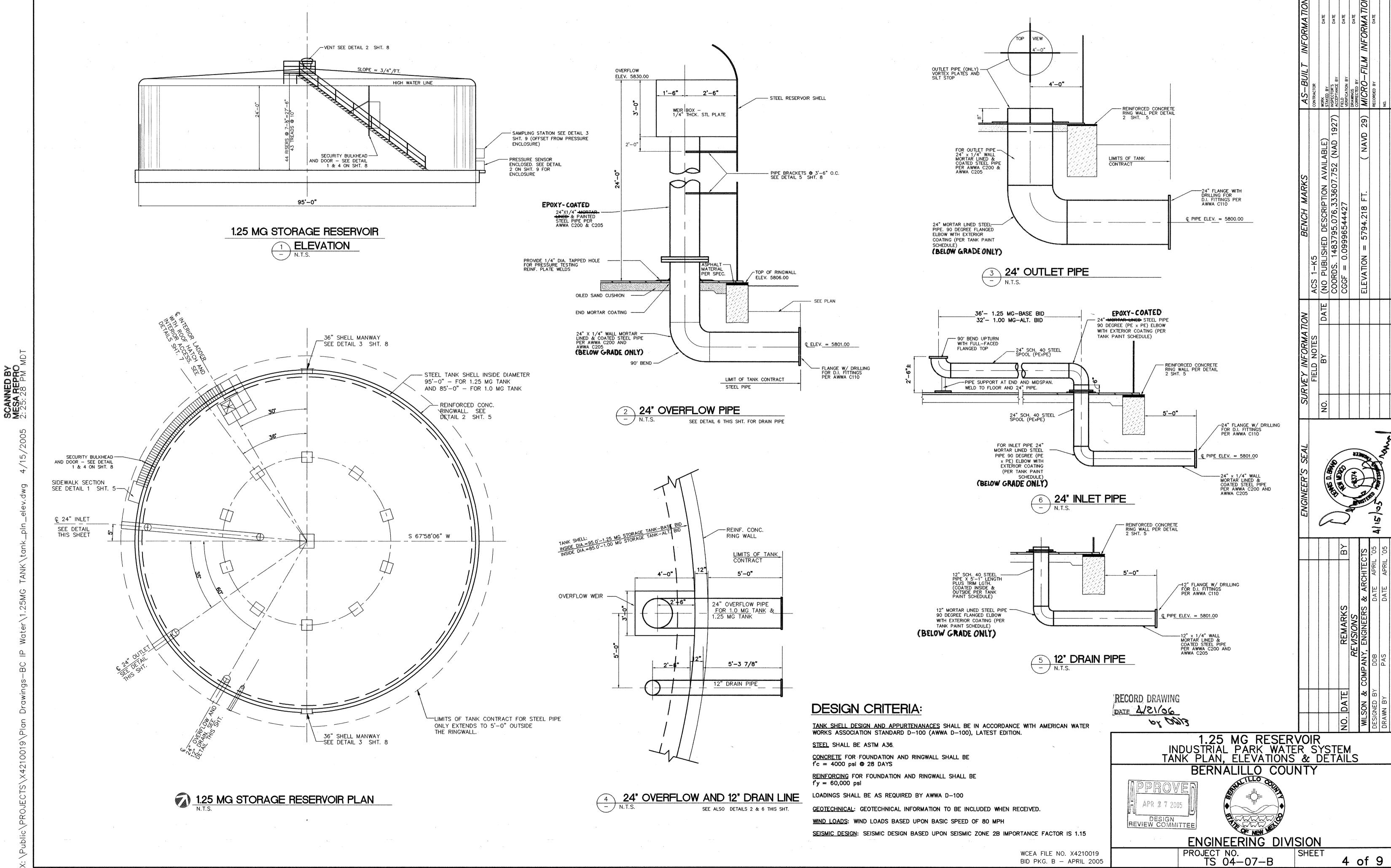
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WILSON & COMPANY CPN 760682



WILSON CPN 760682

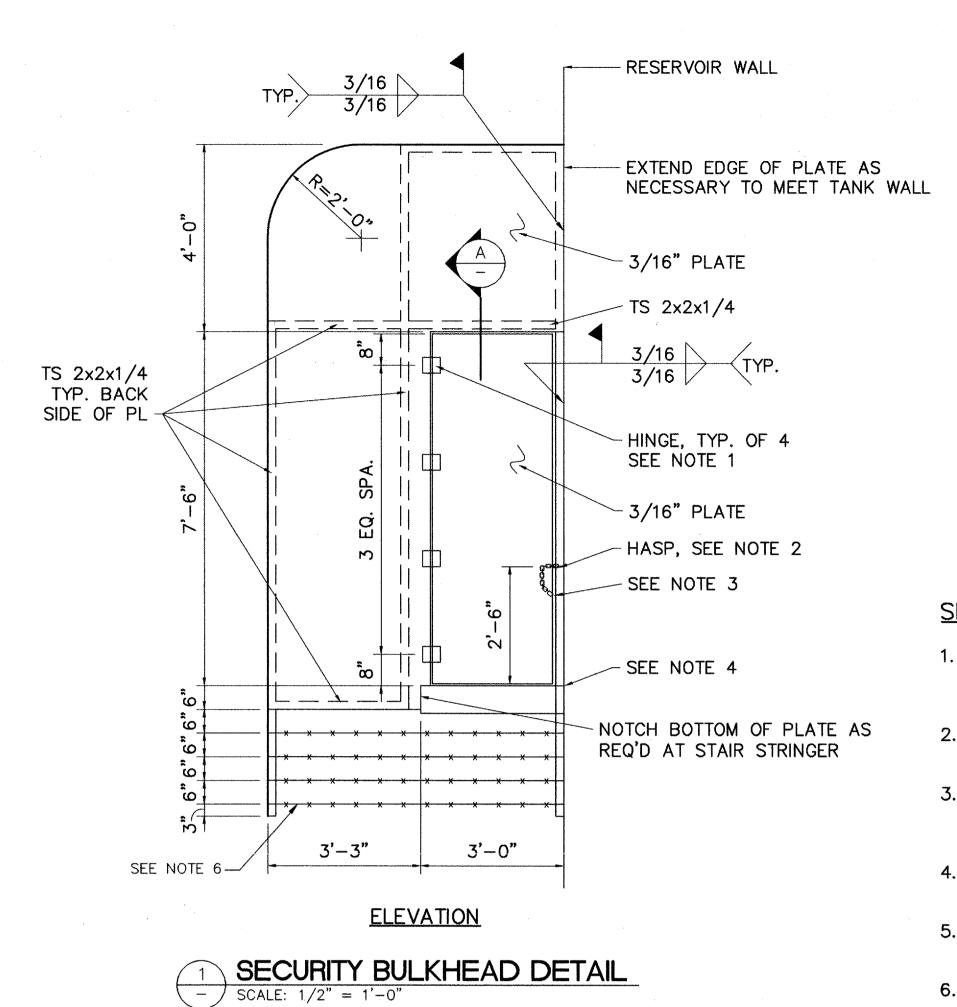
WILSON & COMPANY PN 7606

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SCANNED BY MESA REPRO

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ADDN'L PL 1/4"

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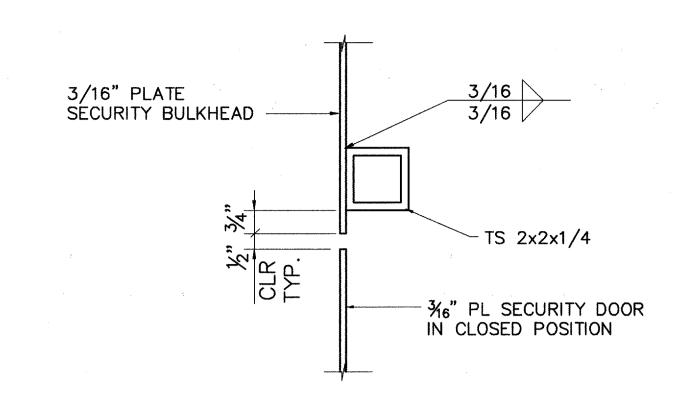
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PL 1/4"x10"

STAIR ELEVATION

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STAIR STRINGER-



SECTION A-SECURITY BULKHEAD

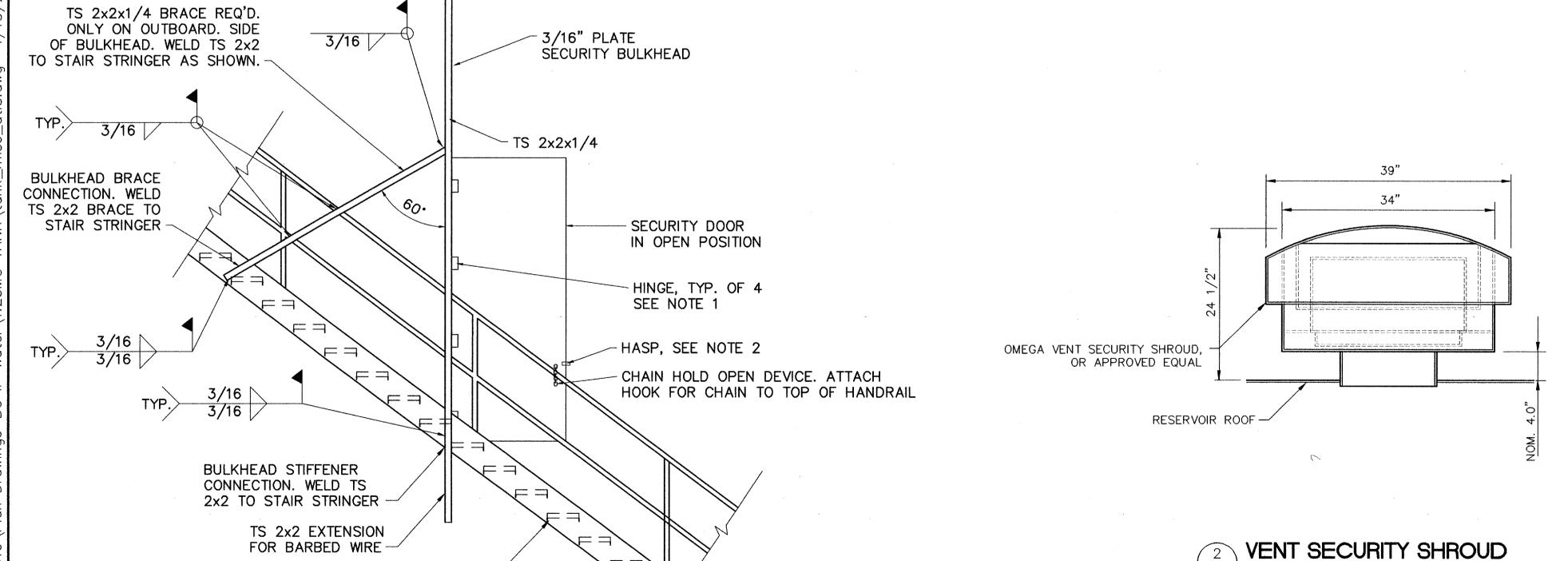
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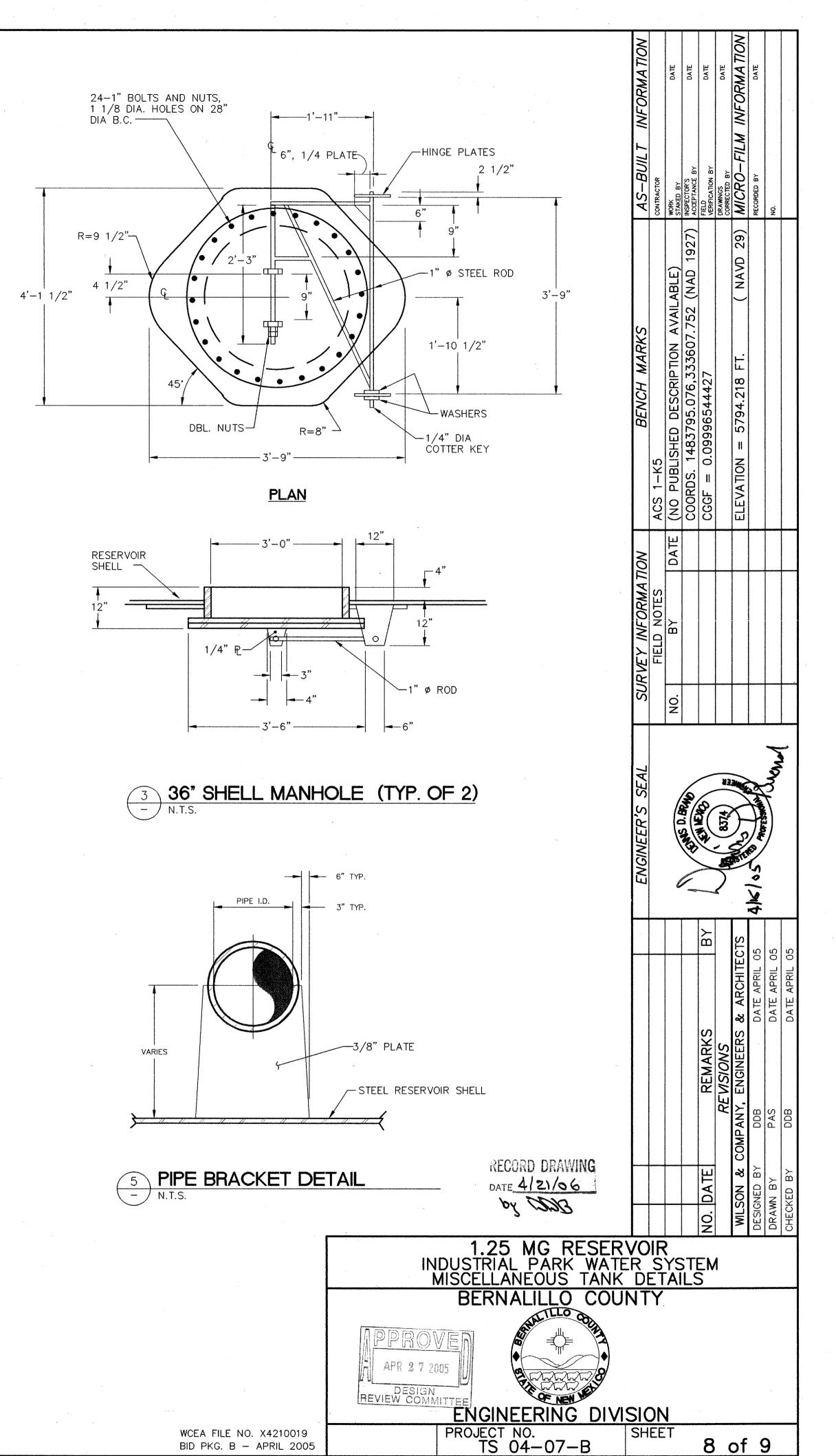
REQUIRED UNDER AWWA D-100 FOR

SAFE OPERATION OF TANK

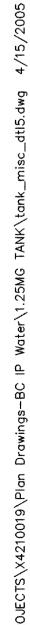
SECURITY BULKHEAD NOTES:

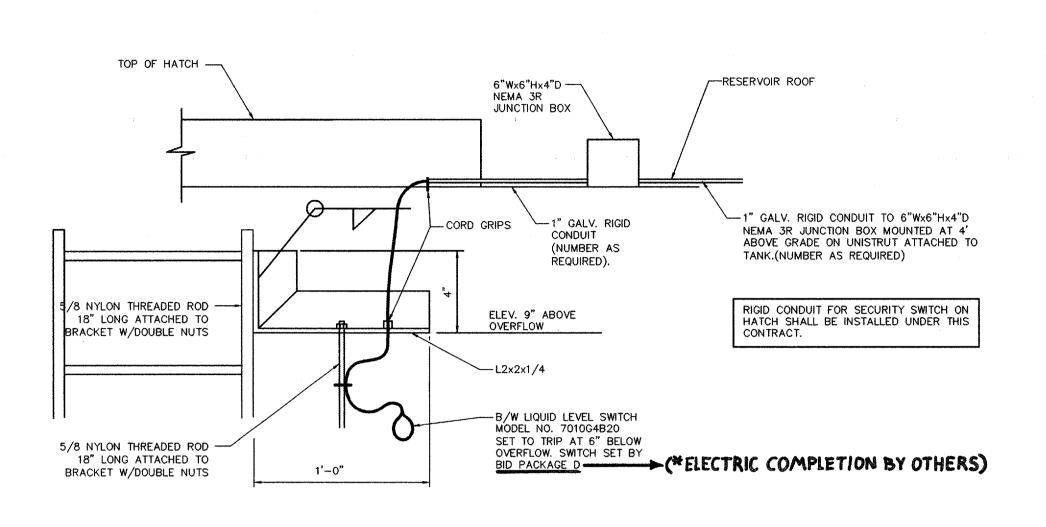
- 1. PROVIDE 4-4" STEEL SURFACE HINGES SHOP WELDED TO DOOR. HINGES SHALL BE MODEL NO. 1607A11 BY McMASTER CARR OR EQUAL.
- 2. PROVIDE HEAVY DUTY SAFETY HASP MODEL NO. 1848A41 BY McMASTER CARR OR EQUAL.
- 3. PROVIDE CHAIN WELDED TO DOOR AND HOOK WELDED TO HANDRAIL SO DOOR CAN BE HELD OPEN.
- 4. CUT HOLE IN TREAD FOR TUBE. INSTALL TUBE THROUGH TREAD AND WELD TREAD TO TUBE.
- 5. LOCATE BULKHEAD AT CENTER OF 20TH RISER ON OUTSIDE STAIRS.
- 6. BARBED WIRE SHALL BE FOUR-POINT PATTERN
 WITH TWO STRANDS OF NO. 12 ½ GAUGE WIRE
 WITH 1" BARBS 5" APART ZINC COATED. THREAD
 WIRE THROUGH HOLE DRILLED IN TUBE AND TIE
 OFF SECURELY.





WILSON & COMPANY CPN 760682





HIGH LEVEL PROBE DETAIL

1/4"STEEL PLATE

4" CLOSED CELL FOAM-INSULATION

LOCATION ON TANK WALL TO BE SELECTED BY WATER UTILITY DEPARTMENT, IN CONJUNCTION WITH THE ENGINEER.

1/4"STEEL PLATE

SAMPLING STATION DETAIL

INSULATION TYPICAL ALL SIDES EXCEPT WALL AGAINST RESERVOIR

````

2" THREAD-O-LET -

1" PVC REPAIR COUPLING -W/ONE END MACHINED TO

1 1/4" x2" BUSHING AS MANUFACTURED BY

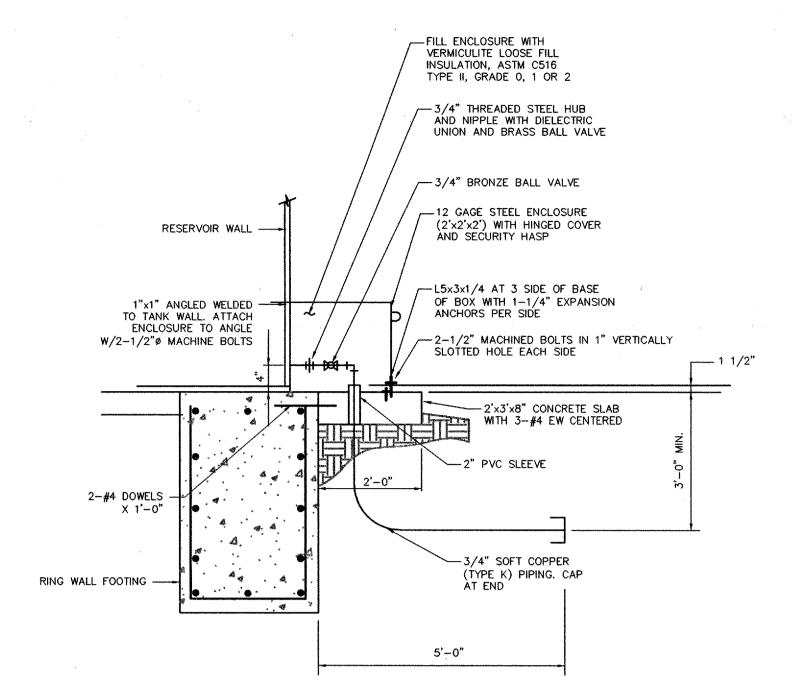
"FLO-CONTROL"

1" PVC BALL VALVE (REMOVABLE)

1.900" O.D. TO SLIP INTO A

1/4" STEEL ENCLOSURE -WITH HINGED COVER AND SECURITY HASP

4" CLOSED CELL -

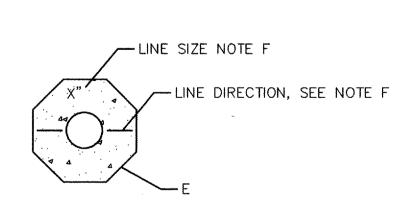


RESERVOIR PRESSURE SENSOR ENCLOSURE

EXACT LOCATION OF ENCLOSURE ON TANK WALL TO SELECTED BY THE WATER UTILITY DEPARTMENT IN CONJUNCTION WITH THE ENGINEER.

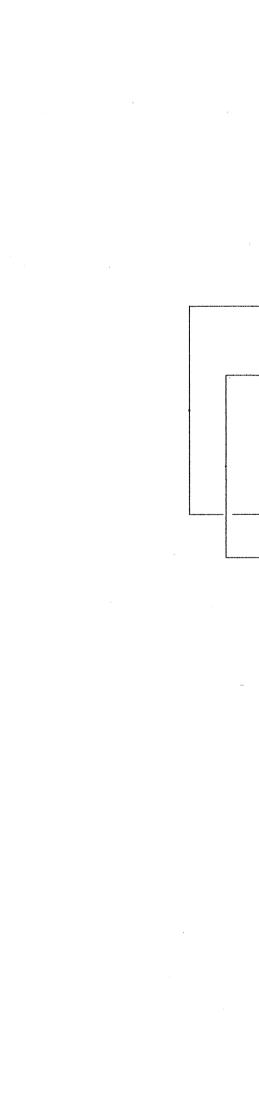
GENERAL NOTES

- A VALVE BOX AND RING COVER PER C.O.A. STD. DWG 2328
- B 10" DIA. RIBBED OR CORRUGATED PVC OR PE PIPE WITH SMOOTH INTERIOR (C-900).
- C NEW OR EXISTING VALVE.
- D COMPACTED BACKFILL. SOIL OR BASE COURSE MATERIAL (95% COMPACTION). SEE SECTION 701.
- E CONCRETE COLLAR PER C.O.A. STD. DWG. 2461.
- F TOP OF CONCRETE SHALL BE TAMPED WITH LINE SIZE AND DIRECTION. MINIMUM LETTER SIZE SHALL BE 3" IN HEIGHT.
- G MIN. 6" OR MATCH EXISTING



LABEL REQUIREMENTS

COA WATER VALVE BOX STD. DWG. 2326
NOT TO SCALE



-1" ANGLE TOP AND BOTTOM WELDED TO REMOVE RESERVOIR AND

BOLTED TO BOX

--- RESERVOIR WALL

-8"x8"x1/4" BACKING PLATE

-1" SCH. 80 PVC PIPE

- 2" PCV SCH. 80 ADAPTER

(REMOVABLE)

-2" CORPORATION STOP

-1 1/4"x2" BUSHING

WCEA FILE NO. X4210019 BID PKG. B - APRIL 2005

LISHED DESCRIPTION AVAILABLE) 1483795.076,333607.752 (NAD 0.09996544427 RECORD DRAWING DATE 4/21/06 Elle ye 1.25 MG RESERVOIR INDUSTRIAL PARK WATER SYSTEM MISCELLANEOUS DETAILS BERNALILLO COUNTY ENGINEERING DIVISION PROJECT NO. 9 of 9 TS 04-07-B WILSON

TANK GRADING IS BY THIS CONTRACT. GRADING IS SUBJECT

2. WATER TREATMENT BUILDING CONSTRUCTION (BID PACKAGE

3. WATER FOR DUST CONTROL AND COMPACTION SHALL BE PROVIDED BY THE CONTRACTOR .

. SEED ALL EXCAVATED AND FILLED AREAS WITH NATIVE

D) WILL FOLLOW BY APPROXIMATELY 2 MONTHS THE

INITIATION OF THIS ABOVE GROUND WATER TANK

CONSTRUCTION. SEE SPECIFICATIONS.

GRASS SEEDING, EXCEPT FOR GRAVEL PAD.

TO MINOR CHANGE.