

AUG 15 2005

ADDENDEUM TO NEGATIVE DECLARATION  
(14 CCR 15164)  
Kern County Water Agency

ANN K. BARNETT  
AUDITOR-CONTROLLER, COUNTY CLERK  
BY [Signature] DEPUTY

Project: Pioneer Groundwater Recharge and Recovery (SCH# 96111037)  
Lead Agency: Kern County Water Agency (KCWA)  
Location: Located in Section 3,4,11, & 14 T30/R26, MDBM, just west of the intersection of Allen Rd and Ming Ave Extensions, west of CSUB.

50.3 Environmental  
EIR/EIS Addendum  
Negative Declaration  
Pioneer GWR Recharge  
& Recovery  
x Ref 1503 Well Permit  
GWR - Pioneer

Description: The Pioneer is a groundwater recharge and recovery Project developed to recharge water in the underground from various sources and using a number of recovery wells to pump out previously recharged water for delivery to meet shortages in surface water supplies. There are eleven local water districts participating in the Pioneer Project that are also Member Units of the Kern County Water Agency. The Participants include 10 agricultural and one urban water district that use the facility as part of their regional water management operations. The Negative Declaration for the Project analyzed the potential environmental impacts for the construction of up to 28 new wells on the Pioneer property. To date, eleven wells have been constructed. There has existed a concern that a high density of wells located on the Pioneer property may have the potential to create impacts on the recovery capability of the wells due to intra-well drawdown interference. In order to minimize groundwater impacts during a recovery cycle (drought), the Agency is proposing to re-locate ten well sites as identified in the Negative Declaration. This Addendum describes the new location for construction of up to ten wells. These wells would be located off the Pioneer property on property owned by Castle and Cooke, Inc., through a Letter Agreement involving a land exchange between the two parties. The approximate location of the ten new well sites is shown on the attached map. The proposed new locations are less than a mile east from the locations identified in the Negative Declaration. Further, a Report conducted by Kenneth D. Schmidt and Associates on the *Maximum Recovery Plan for the Pioneer Kern Fan Project*, dated December 21, 1998 indicated that spreading out recovery wells from locations identified in the Negative Declaration for the Project will minimize groundwater impacts due to drawdown of the groundwater levels during recovery.

RECEIVED - Kern County Water Agency  
JMC   
BEW   
~~DML~~   
G-3   
C.C.C.   
D.M.M.   
LWF   
~~K.F.T.~~   
All   
ATM   
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Staff, having undertaken and completed a review of this proposed Addendum to the Negative Declaration in accordance with the Agency's "Objectives, Criteria and Procedures for Evaluation of Projects for Agency Compliance with CEQA" pursuant to Public Resources Code section 21082, has determined that an Addendum is the appropriate CEQA action. The KCWA Board of Directors, having conducted a careful and independent review of the proposed change to the Pioneer Groundwater Recharge and Recovery Project, described above, does hereby find and

Notice of Environmental Document  
Posted by County Clerk on 8/15/05  
and for 30 days thereafter, Pursuant to  
Section 21152(C), Public Resources Code

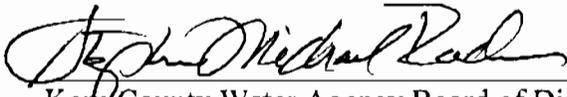
20766

declare that said changes are minor in nature and do not result in new significant environmental effects or substantially increase the severity of previously identified environmental effects, and do not call for the preparation of a subsequent negative declaration or environmental impact report pursuant to CEQA Guidelines §15162. A brief statement of the reasons supporting the Board's findings is as follows:

The proposed change to the Negative Declaration involves moving the location of well sites from the Pioneer property approximately one mile east in order to accommodate a land exchange and to spread out the well field which will lessen the impacts to groundwater levels and drawdown effects compared to the original well site locations. The same amount of water will be pumped on the new well sites as the original well sites. No increase in biological impacts will occur because the revised well sites are located on actively farmed lands. The lands have been re-zoned for residential development and are located within the Metropolitan Bakersfield Habitat Conservation Plan which permits and mitigates for urban development on prior agricultural lands. As such there is no material difference in the project with the change in well site location as compared to the Negative Declaration.

The Board of Directors hereby finds that this Addendum to the KCWA Pioneer Groundwater and Recovery Project reflects its independent judgment.

Dated: August 15, 2005

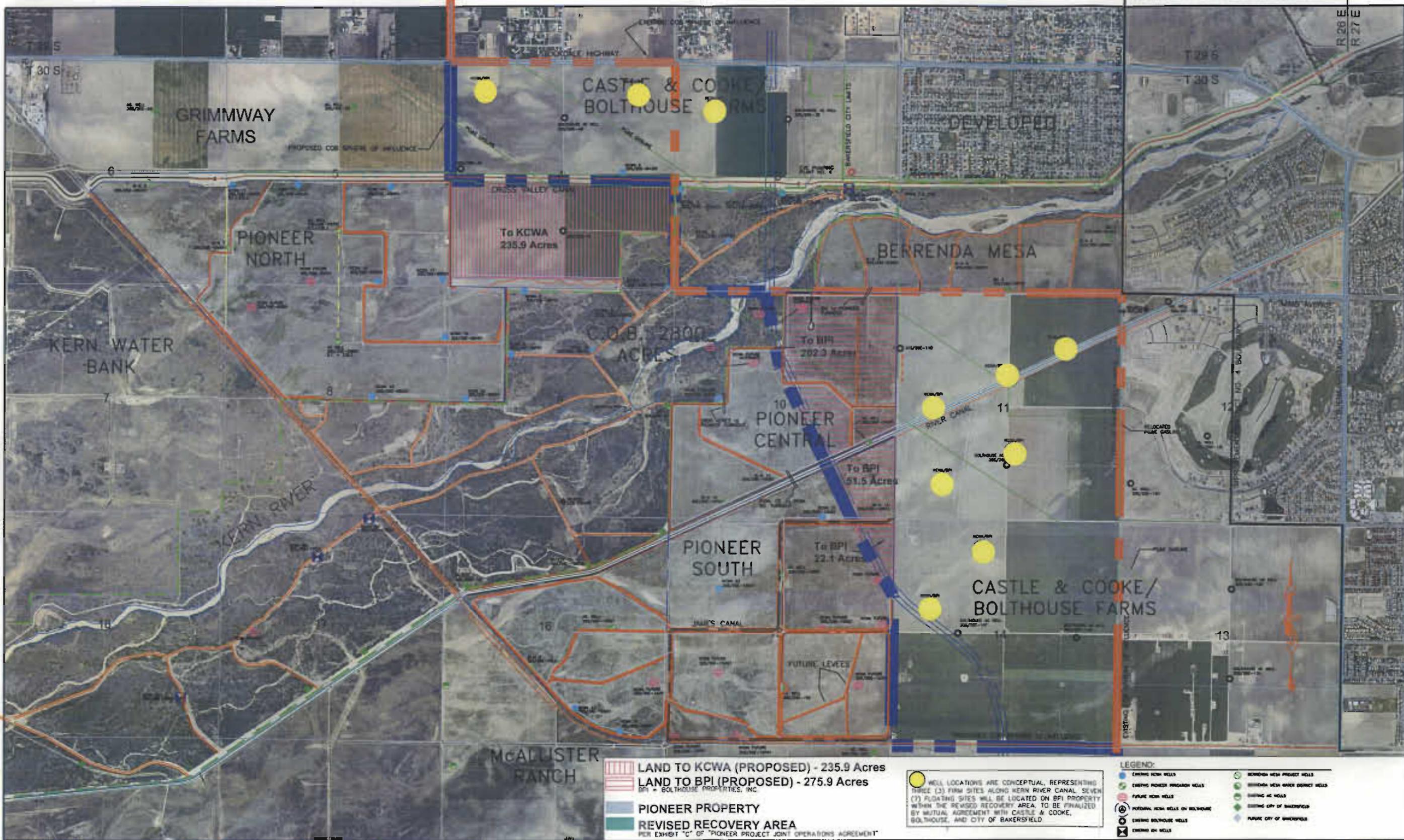
 , President  
Kern County Water Agency Board of Directors

Attachments:

1. Well construction specifications
2. Well location map

Supporting Documents

1. *Pioneer Groundwater Recharge and Recovery Project Negative Declaration*, dated November 1996
2. *Maximum Recovery Plan for the Pioneer Kern Fan Project*, prepared by Kenneth D. Schmidt and Associates, groundwater quality consultants, dated December 1998.



LAND TO KCWA (PROPOSED) - 235.9 Acres  
 LAND TO BPI (PROPOSED) - 275.9 Acres  
 BPI = BOLTHOUSE PROPERTIES, INC.  
 PIONEER PROPERTY  
 REVISED RECOVERY AREA  
 PER EXHIBIT "C" OF "PIONEER PROJECT JOINT OPERATIONS AGREEMENT"

WELL LOCATIONS ARE CONCEPTUAL, REPRESENTING THREE (3) FIRM SITES ALONG KERN RIVER CANAL SEVEN (7) FLOATING SITES WILL BE LOCATED ON BPI PROPERTY WITHIN THE REVISED RECOVERY AREA, TO BE FINALIZED BY MUTUAL AGREEMENT WITH CASTLE & COOKE, BOLTHOUSE, AND CITY OF BAKERSFIELD

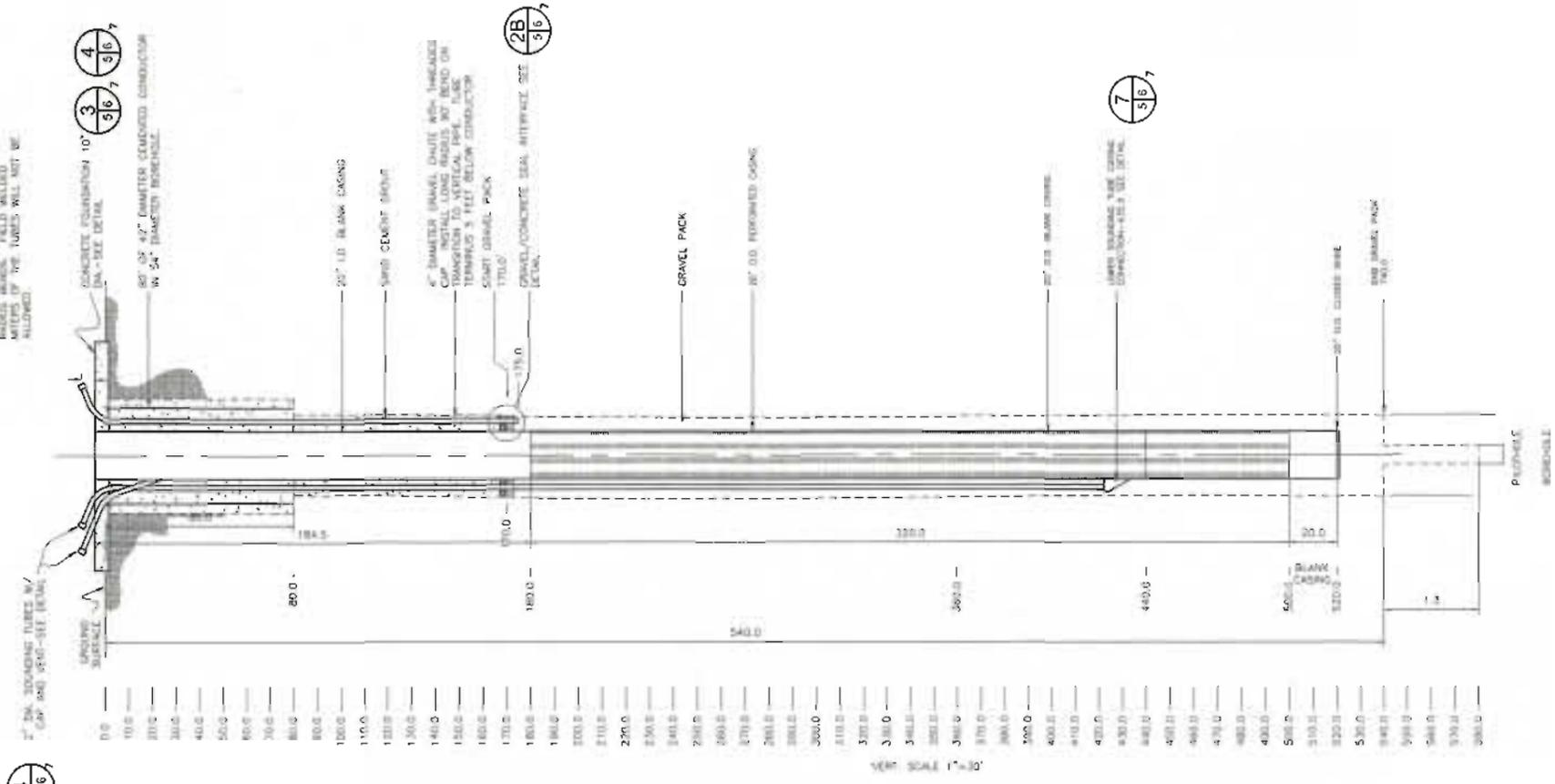
- LEGEND:**
- EXISTING KERN WELLS
  - EXISTING PIONEER PROGRAM WELLS
  - FUTURE KERN WELLS
  - FUTURE KERN WELLS ON BOLTHOUSE
  - EXISTING BOLTHOUSE WELLS
  - EXISTING SH WELLS
  - BERRENDA MESA PROJECT WELLS
  - BERRENDA MESA WATER DISTRICT WELLS
  - EXISTING SH WELLS
  - EXISTING CITY OF BAKERSFIELD
  - FUTURE CITY OF BAKERSFIELD

DATE: FEBRUARY 11, 2004	FILE NAME: Sphere of Influence - 028 (02/11/04).dwg	REV:
SCALE: 1"=1000'	NOTES:	REV:
DRAWN BY: J. SMITH		REV:
CHECKED BY:		REV:
PROJECT CODE:		REV:

**PIONEER PROJECT**  
**KCWA/CASTLE & COOKE/BOLTHOUSE LAND EXCHANGE**  
 DECEMBER 1, 2003

**KERN COUNTY WATER AGENCY**  
 BAKERSFIELD, CALIFORNIA

NOTE: THE DRAMEL CHUTE AND THE SOUNDING TUBES SHALL BE DIRECTED AWAY FROM THE CASING DURING LONG RIGGING WORK. FIELD WELDED JOINTS OF THE TUBES WILL NOT BE ALLOWED.



4  
5/6

DETAIL 1B  
WELL CASING  
SCALE 1/8\"/>

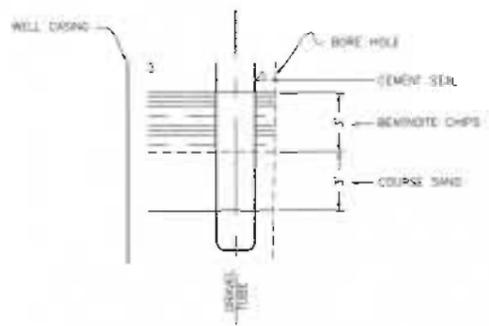
1B  
5/6

**CONSTRUCTION NOTES**

1. THE CASING DEPTH INTERVALS NOTED HEREON ARE FOR BIDDING PURPOSES ONLY. THE DISTRICT RESERVES THE RIGHT TO MOVE OR CHANGE DEPTHS AND LOCATION OF CASING SECTIONS UPON REVIEW OF DRILL CUTTINGS AND C-LOGS. SEE SPECIFICATIONS FOR MEASUREMENT AND PAYMENT REQUIREMENTS FOR SAND CHANGES.
2. THE MINIMUM TIME THAT MUST BE ALLOWED FOR MATERIALS CONTAINING CEMENT TO SET BEFORE CONSTRUCTION OPERATIONS ON THE WELL MAY BE REQUIRED SHALL BE 6 HOURS FOR TYPE V CEMENT. WHEN NECESSARY THESE TIMES MAY BE REDUCED BY THE USE OF ADDITIVES DECIDED SPECIFICALLY TO SHORTEN SETTING TIME.
3. SOUNDING AND DRAMEL TUBES SHALL BE STAMPED "SHALLOW" AND "DEEP".
4. SEE DRAWINGS "S-04" AND "S-05" FOR WELL DETAILS.
5. TWO 2-INCH (DIAMETER) SOUNDING TUBES SHALL BE INSTALLED FOR THE WELL AND SHALL BE LOCATED AS DETAILED ON THE DRAWINGS-SEE DETAIL.

4  
5/6

5  
5/6



DETAIL 2B  
GRAVEL SEAL INTERFACE  
SCALE 1/8\"/>

2B  
5/6

**CAUTION:**  
THE CONTRACTOR SHALL CALL U.S.A. FOR LOCATION OF UNDERGROUND UTILITIES 48 HOUR PRIOR TO EXCAVATION.  
CALL 1-800-642-2444

REVISED	DESCRIPTION	SUBMIT	APPROV	DATE

FILENAME: X.DWG      DRAWN BY: J. TORRES

REFERENCE INFORMATION AND NOTES

1. NONE

DESIGNED BY: M.M.V.

DRAWN BY: J.T.

CHECKED BY: J.T.

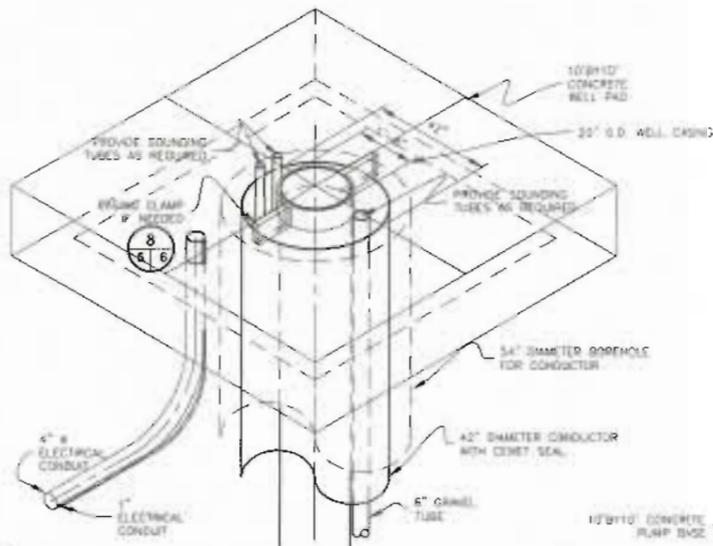
DATE: 7-25-05

**IMPROVEMENT DISTRICT NO. 4**  
CONTRACT NO. KCWA 2004-11  
10 CFS WELL CASING LAYOUT



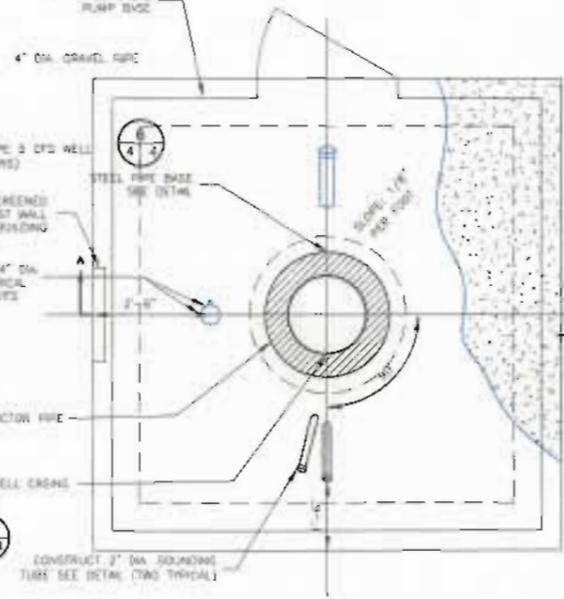
**KERN COUNTY WATER AGENCY**  
BAKERSFIELD, CALIFORNIA

SCALE: AS SHOWN  
SHEET NO: 430E  
PAGE: G-5



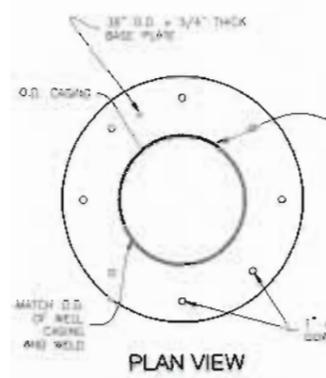
**NOTES:**  
 1. CASING AND PERFORATED SECTIONS SHALL BE CONSTRUCTED AS REQUIRED IN THE SPECIFICATIONS.  
 2. CONTRACTOR SHALL BE SUBMIT MILL CERTIFICATES, MANUFACTURER'S DATA SHEETS AND SHOP DRAWINGS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO DELIVERING ANY PORTION OF CONSTRUCTED ITEMS TO THE WELL SITE.  
 3. DIRECTION OF GRAVEL AND SOUNDING TUBES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

**DETAIL 3**  
CASING DETAIL  
1"=2'

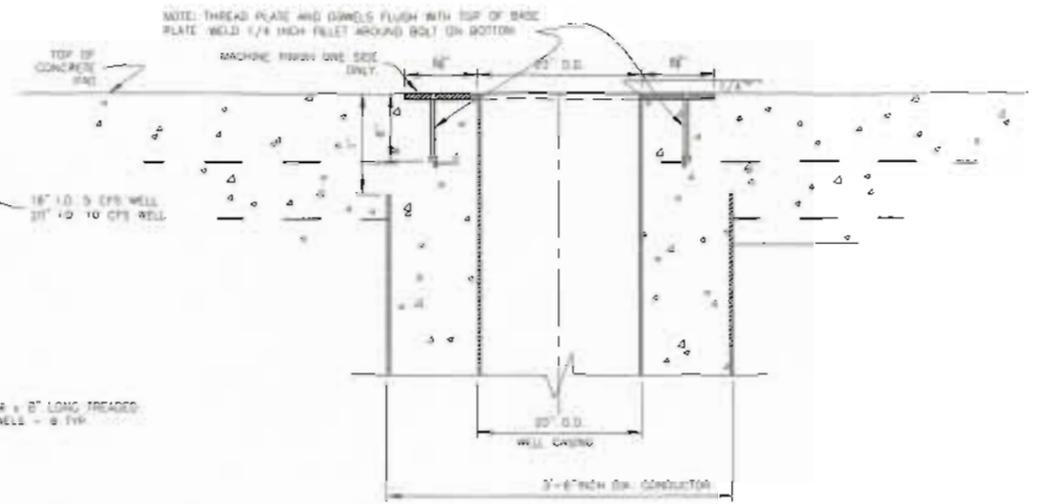


**DETAIL 4**  
PUMP FOUNDATION  
3/8"=1'-0"

**CONCRETE PUMP BASE NOTES:**  
 A. CONTRACTOR SHALL EXTEND GRAVEL TUBE, SOUNDING TUBES, CONDUCTOR AND CASING AS REQUIRED TO MEET TOP OF CONCRETE ELEMENTS.  
 B. THE BOTTOM OF THE SOUNDING TUBES SHALL BE TERMINATED IN THE CASING AND THE GRAVEL PACK IN THE LOCATIONS SHOWN ON DRAWINGS "D-D" AND "E-E".  
 C. THE CONTRACTOR SHALL COORDINATE THE ORIENTATION AND FINAL LOCATIONS OF TUBES ABOVE CONCRETE WITH ENGINEER.  
 D. ALL CONCRETE USED FOR THE CONSTRUCTION OF CONCRETE PUMP BASES SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT THE AGE OF 28 DAYS. CONCRETE MIX DESIGN SHALL BE SUBMITTED TO THE ENGINEER.  
 E. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI-318 (MOST RECENT VERSION) UNLESS SPECIFIED OTHERWISE.  
 F. ALL REINFORCING BARS SHALL HAVE A MINIMUM LENGTH OF LESS THAN 1.7 TIMES THE TENSION DEVELOPMENT LENGTH.  
 G. HOOK BARS AT TOP OF BASE SHALL BE AS SHOWN.  
 H. NO WELDING OF REINFORCING BARS SHALL BE PERMITTED UNLESS APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.  
 I. MINIMUM STEEL REINFORCEMENT DIAMETER SHALL BE NO. 3.  
 J. MINIMUM THICKNESS OF CONCRETE COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS:  
 - BOTTOM SPLICES CAST AGAINST EARTH 3-INCHES  
 - FORMED SIDES AND TOP SPACES AGAINST EARTH 2 1/2-INCHES  
 - TOP AND BOTTOM ALL OTHER EXPOSURE 1 INCH



**DETAIL 6**  
BASE PLATE DETAIL  
3/8"=1'-0"



**SECTION A-A**  
PUMP FOUNDATION  
1"=20"

**NOTES:**  
 1. BASE PLATE DIMENSIONS ARE FOR BRIDGING PURPOSES ONLY. DIMENSIONS AND ALIGNMENT OF RECEIPTABLE HOLES MAY CHANGE BASED ON INFORMATION DEVELOPED FROM GEOPHYSICAL LOGS.  
 2. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS SHOWN HEREON AND PROVIDE A SHOP DRAWING FOR THE BASE PLATE PRIOR TO CONSTRUCTION UPON COMPLETED REVIEW OF SUBMITTALS BY THE ENGINEER. THE CONTRACTOR SHALL CONTACT AND NOTIFY THE BASE PLATE ANY DISCREPANCIES OR CHANGES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR APPROVAL PRIOR TO FABRICATION.  
 3. SEE PUMP FOUNDATION DETAIL FOR STRUCTURAL CONCRETE AND STEEL REINFORCEMENT DETAILS.

**NOTES:**  
 A. GRAVEL (WHITE) AND SOUNDING TUBES SHALL BE DIRECTED AWAY FROM CASING USING LONG RADII BOWEL FIELD WELDED METERS OF THE TUBES WILL NOT BE ALLOWED.  
 B. CONTRACTOR SHALL INSTALL NEW SOUNDING TUBES AS SHOWN HEREON.  
 C. VENTED SOUNDING TUBE SHALL BE SCREENED AND SECURED WITH A STAINLESS STEEL CLAMP.  
 D. SOUNDING TUBE VENT SHALL BE INSTALLED ON ONE TUBE ONLY.  
 E. CONTRACTOR SHALL BE RESPONSIBLE ON ONE TUBE BOX AT DEPTH SHOWN ON DRAWINGS "D-D" AND "E-E". SOUNDING TUBE BOX SHALL BE CONSTRUCTED AS SHOWN ON THE DRAWINGS.

REVISION	DESCRIPTION	DATE	BY	APP'D

REVISION INFORMATION AND NOTES	
1. NONE	

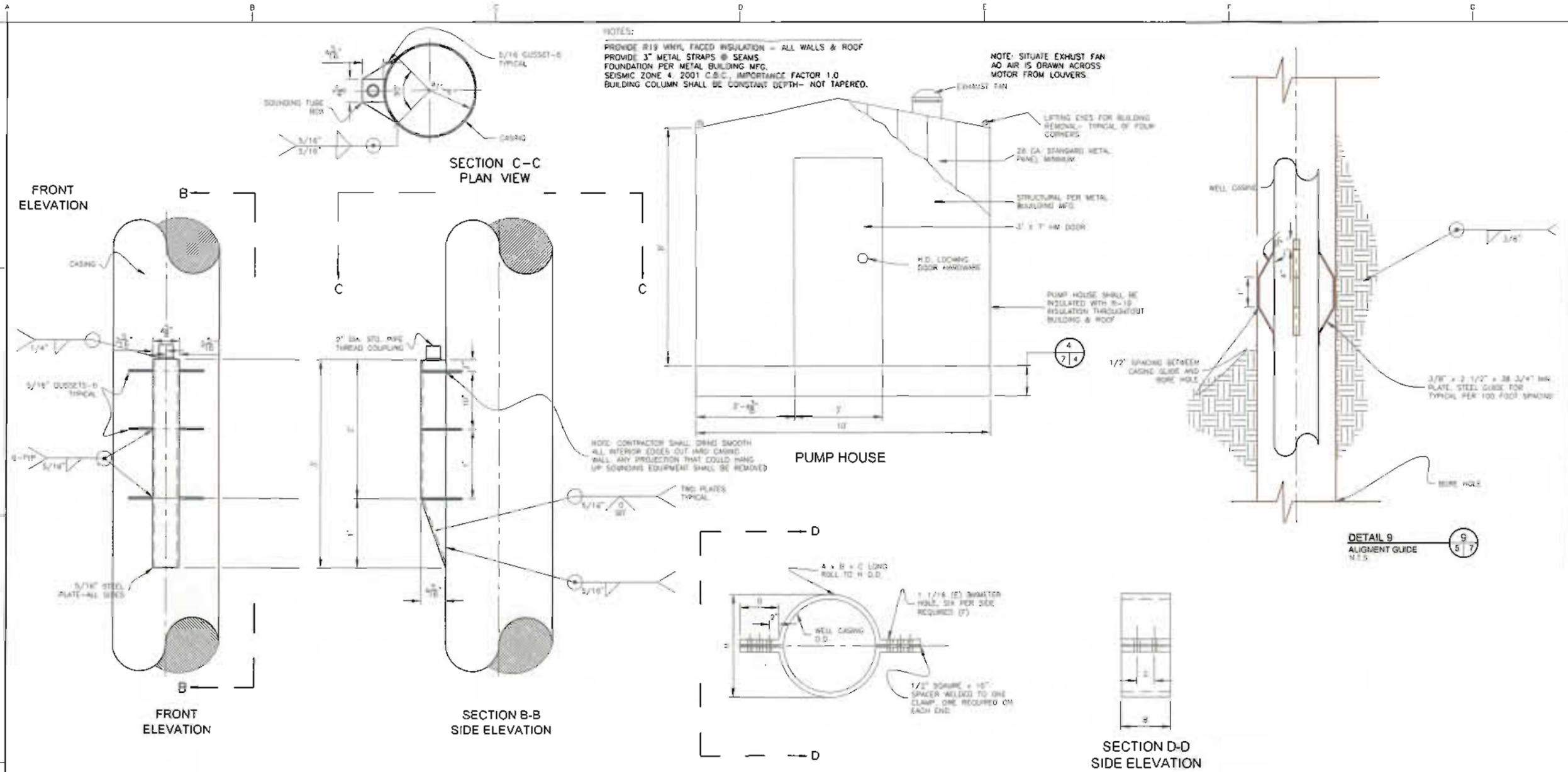
DESIGNED BY: MAFU  
 CHECKED BY: WBT  
 DRAWN BY: J. TORRES  
 DATE: 7-26-04

**IMPROVEMENT DISTRICT NO. 4**  
 CONTRACT NO. KCWA 2004-11  
 WELL CONSTRUCTION DETAILS



**KERN COUNTY WATER AGENCY**  
 BAKERSFIELD, CALIFORNIA

SCALE: AS SHOWN
PROJECT NO: 430E
SHEET: G-06
OF 3



**NOTES:**  
 PROVIDE R19 VINYL FACED INSULATION - ALL WALLS & ROOF  
 PROVIDE 3" METAL STRAPS @ SEAMS  
 FOUNDATION PER METAL BUILDING MFG.  
 SEISMIC ZONE 4 2001 C.B.C., IMPORTANCE FACTOR 1.0  
 BUILDING COLUMN SHALL BE CONSTANT DEPTH - NOT TAPERED.

**NOTE:** SITUATE EXHUST FAN  
 SO AIR IS DRAWN ACROSS  
 MOTOR FROM LOUVERS.

**NOTE:** CONTRACTOR SHALL DRILL SMOOTH  
 ALL INTERIOR EDGES OUT INTO CASING  
 SHALL ANY PROJECTION THAT COULD HANG  
 UP SOUNDING EQUIPMENT SHALL BE REMOVED

**DIMENSIONS - INCHES (1)**

CASING O.D.	A	B	C	D	E	F	G	H	ALLOWABLE WT. TONS
18 5/8"	1	12	61-5/16"	8	1-1/16"	8	4-1/2"	20-5/8"	83
20"	1	12	63-5/8"	8	1-1/16"	8	4-1/2"	22	82
20 5/8"	1	12	67-19/32"	8	1-1/16"	8	4-1/2"	22-5/8"	83 <sup>18</sup>

**NOTES:**  
 1. HANDBOOK OF GROUND WATER DEVELOPMENT, ROSSIGNOL MOSS COMPANY (JOHN WILEY & SONS, 1990, FIGURE 11.3)  
 2. FOR DIAMETERS LARGER 20 5/8" THE CONTRACTOR SHALL SUBMIT CALCULATION SHEET  
 3. CASING CLAMP SHALL REMAIN IN PLACE UNTIL THE CEMENT SEAL HAS BEEN PLACED AND CURED.

REVISED	DESCRIPTION	SUBMIT	APPROV	DATE

REFERENCE INFORMATION AND NOTES:  
 1. NONE

DESIGNED BY: MMV  
 CHECKED BY: RSI  
 DATE: 8-31-00

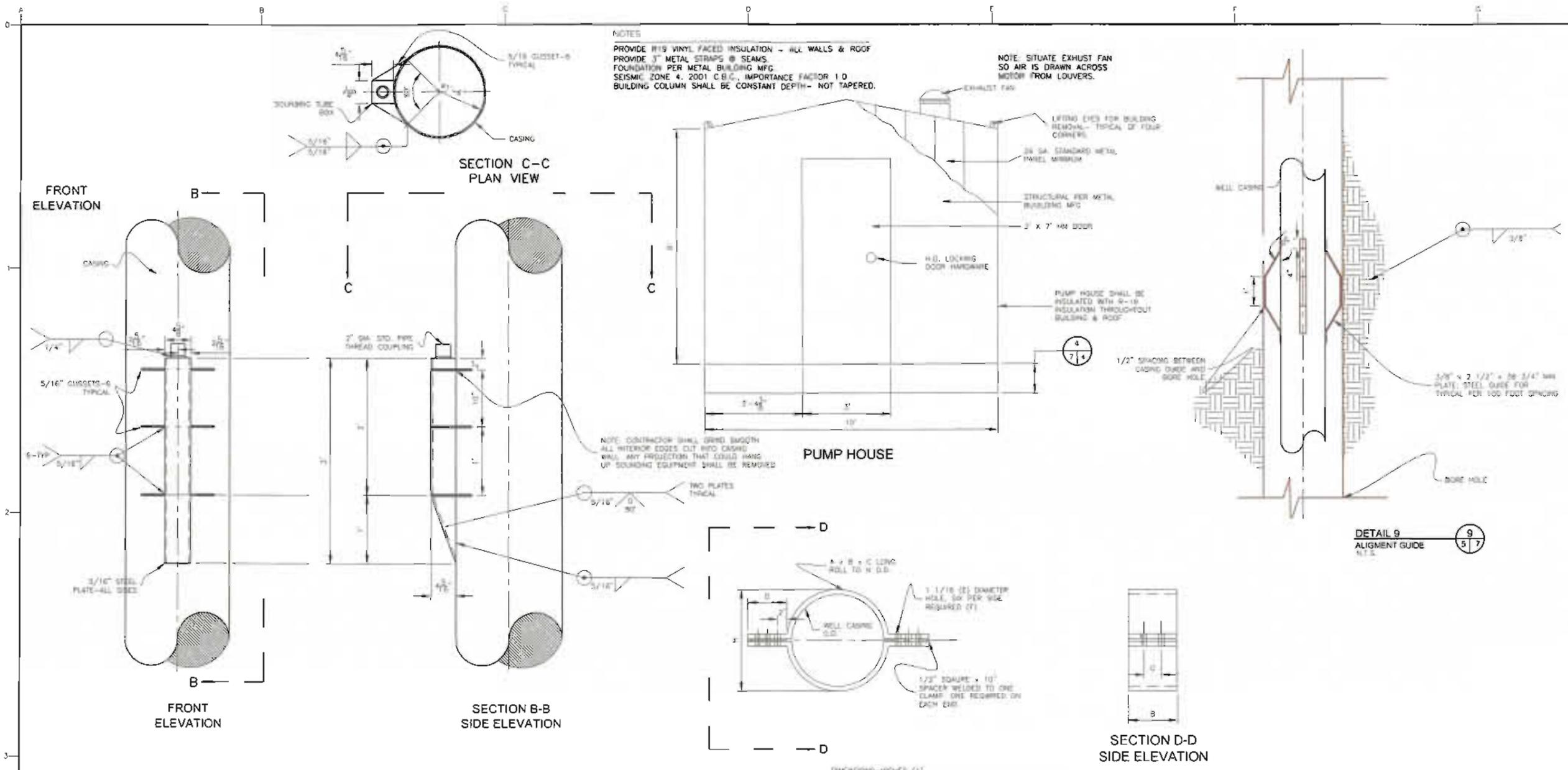


**IMPROVEMENT DISTRICT NO. 4**  
 CONTRACT NO. KCWA 2004-11  
 WELL CASING CONSTRUCTION DETAILS



**KERN COUNTY WATER AGENCY**  
 BAKERSFIELD, CALIFORNIA

SCALE: AS SHOWN  
 PROJECT NO: 430E  
 SHEET: G-7  
 OF 3



DIMENSIONS--INCHES (1)

CASING O.D.	A	B	C	D	E	F	G	H	ALLOWABLE WT. TONS.
18 5/8"	1	12	51-5/16"	8	1-1/16	6	4-1/2	20-5/8	65
20"	1	12	49-1/8"	8	1-1/16	6	4-1/2	22	82
20 3/8"	1	12	47-15/32"	8	1-1/16	6	4-1/2	22-5/8	85

- NOTES:
- HANDBOOK OF GROUND WATER DEVELOPMENT, ROGGE WESS COMPANY (JOHN WILEY & SONS, 1980, FIGURE 11.3)
  - FOR DIAMETERS LARGER 20 5/8" THE CONTRACTOR SHALL SUBMIT CALCULATION SHEET.
  - CASING CLAMP SHALL REMAIN IN PLACE UNTIL THE O-RING SEAL HAS BEEN PLACED AND CURED.

REVISED	DESCRIPTION	SUBMIT	APPROV	DATE

DRAWN BY J. TOYRES

REFERENCE APPROVALS AND NOTES

1. NONE

DESIGNED	MMV
CHECKED	RBI
APPROVED	
DATE	8-31-00



**IMPROVEMENT DISTRICT NO. 4**  
 CONTRACT NO. KCWA 2004-11  
 WELL CASING CONSTRUCTION DETAILS



**KERN COUNTY WATER AGENCY**  
 BAKERSFIELD, CALIFORNIA

AS SHOWN  
 SHEET NO. 430E  
 G-7  
 OF 3