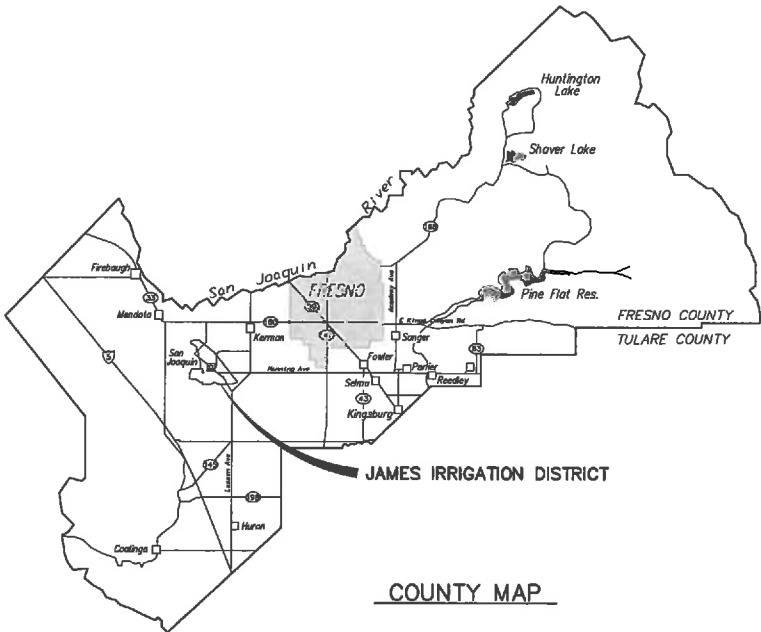


Appendix A

Proposed Construction Designs



STATE MAP



SITE SAFETY AND PROTECTION NOTES

The duty of the Engineer, Owner or its agents to conduct construction review of the Contractor's performance and the undertaking of inspections or the giving of instructions as authorized herein is not intended to include review of the adequacy of the Contractor's safety measures in, on, or near the construction site and shall not be construed as supervision of the actual construction nor make the Engineer, Owner or its agents responsible for providing a safe place for the performance of work by the Contractor, subcontractors, or suppliers, or for access, visits, use, work, travel or occupancy by any person.

The Contractor shall have at the work site, copies or suitable extracts of Construction Safety Orders, issued by Cal-OSHA. He shall comply with provisions of these and all other applicable laws, ordinances and regulations. The Contractor must comply with provisions of the safety and health regulations for construction, promulgated by the Secretary of Labor under Section 107 of the Contract Work Hours and Safety Standards Act, as set forth in Title 29 C.F.R.

To protect the lives and health of his employees under the Contract, the Contractor shall comply with all pertinent provisions of the "Manual of Accident Prevention in Construction" issued by the Associated General Contractors of America, Inc., and shall maintain an accurate record of all cases of death, occupational disease, and injury requiring medical attention or causing loss of time from work, arising out of and in the course of employment or work under the Contract.

The Contractor alone shall be responsible for the safety, efficiency, and adequacy of his facilities, appliances, and methods and for any damage, which may result from their failure or their improper construction, maintenance or operation.

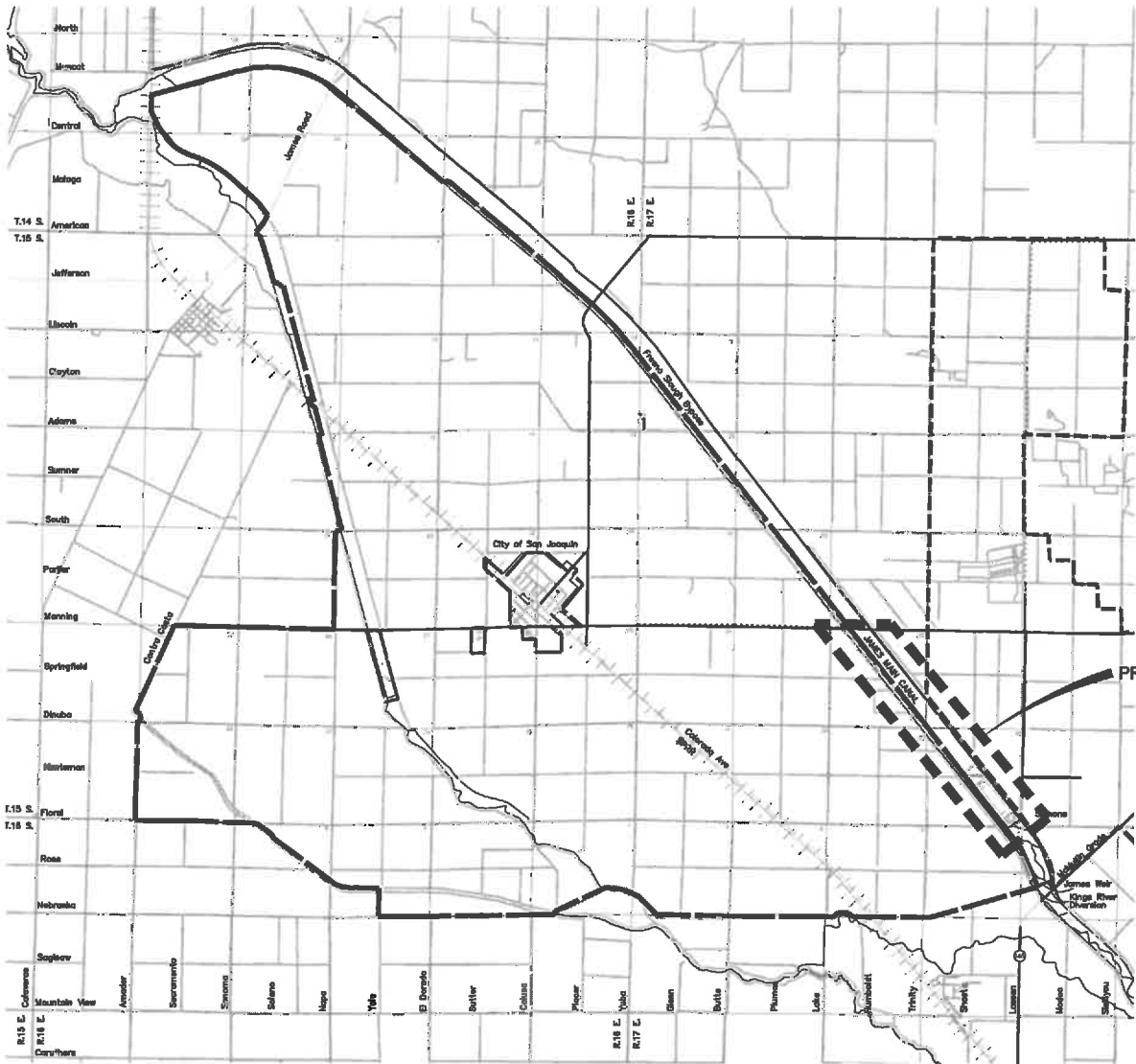
The Contractor agrees that it shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the Contractor shall defend, indemnify and hold the Owner, Provost & Pritchard Engineering Group, Inc., and their respective agents harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting for liability arising from the sole negligence of Owner, Engineer, or their respective agents.

The Owner and its agents' site responsibilities are limited solely to the activities of their employees on site. These responsibilities shall not be inferred by any party to mean that the Owner or its agents have responsibility for site safety. Safety in, on, or about the site is the sole and exclusive responsibility of the Contractor alone. The Contractor's methods of work performance, superintendence and the Contractor's employees, and sequencing of construction are also the sole and exclusive responsibilities of the Contractor alone.

JAMES IRRIGATION DISTRICT

FRESNO COUNTY, CA

WATER AUGMENTATION PROJECT
FRESNO SLOUGH BYPASS IMPROVEMENTS

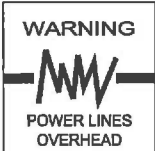


DISTRICT MAP

PROJECT LOCATION

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	NOTES & LEGEND
3	INDEX SHEET
4	BASIN 2 GRADING PLAN
5	BASIN 3 GRADING PLAN
6	CELL 1 GRADING PLAN
7	CELL 2 GRADING PLAN
8	CELL 3 GRADING PLAN
9	CELL 4 GRADING PLAN
10	FRESNO SLOUGH X-SECTIONS
11	FRESNO SLOUGH X-SECTIONS 2
12	EARTHEN CONTROL STRUCTURE
13	BASIN 3 FACILITIES PLAN
14	SIPHON
15	MAIN CANAL CONTROL STRUCTURE
16	SIPHON JUNCTION BOX
17	BASIN 3 PUMP STRUCTURE AND WELL LINE JUNCTION
18	BASIN 3 DISCHARGE
19	RECHARGE INTERTIE
20	E-BOOSTER MODIFICATIONS
21	WELL DETAIL

APPROVED: _____ DATE: _____
JAMES IRRIGATION DISTRICT



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JAMES IRRIGATION DISTRICT
FRESNO COUNTY, CA



DESIGN ENGINEER:
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LICENSE NO:
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DRAFTED BY: P&P
CHECKED BY: BEE
SCALE: AS SHOWN
DATE: 8/9/2011
JOB NO: 10510802
DWG. NO:
SHEET

ABBREVIATIONS

AP	ANTENNA POLE
APN	ASSESSOR'S PARCEL NUMBER
BC	BEGIN CURVE
B&M	BRICK & MORTAR
CA	CALIFORNIA
CFS	CUBIC FEET PER SECOND
CIP	CAST IN PLACE
CL	CLASS
CLF	CHAIN LINK FENCE
C/L OR \varnothing	CENTER LINE
CONC	CONCRETE
COR	CORNER
CY	CUBIC YARD
DIA OR \varnothing	DIAMETER
DIST	DISTRIBUTION
DISTRICT	JAMES IRRIGATION DISTRICT
EC	END OF CURVE
EG	EXISTING GRADE
ELEC	ELECTRICAL
ELEV OR EL	ELEVATION
ELL	ELBOW
EP	EDGE OF PAVEMENT
ESMT	EASEMENT
EW	EACH WAY
EXIST OR (E)	EXISTING
F&I	FURNISH & INSTALL
FG	FINISHED GRADE
FL OR \overline{E}	FLOW LINE
FT	FEET
FV&C	FRESNO VALVES & CASTINGS
GALV	GALVANIZED
GB	GRADE BREAK
HGL	HYDRAULIC GRADE LINE
HT	HEIGHT
HWL	HIGH WATER LEVEL
ID	INSIDE DIAMETER
INV	INVERT
IRR	IRRIGATION
LF	LINEAR FEET
LT	LEFT
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MIN	MINIMUM
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
PE	PERMANENT EASEMENT
PH	PHASE
P/L OR \overline{P}	PROPERTY LINE
PROD	PRODUCTION
PROP OR (P)	PROPOSED
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
Q	FLOW
RC	RADIUS OF CURVE
RGRCP	RUBBER GASKETED REINFORCED
	CONCRETE PIPE
ROW OR R/W	RIGHT OF WAY
RT	RIGHT
S=	SLOPE
SEC	SECTION
SF	SQUARE FEET
SP	SERVICE POLE
STA	STATION
TCE	TEMPORARY CONSTRUCTION EASEMENT
TS	TOP OF STRUCTURE
TW	TOP OF WALL
TWS	TRAVELING WATER SCREEN
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE

LEGEND

EXISTING	PROPOSED	
---	---	RIGHT-OF-WAY
---	---	PROPERTY LINE
-E-	-E-	ELECTRIC LINE (UNDERGROUND)
-E-	-E-	ELECTRIC LINE (AERIAL)
-T-	-T-	TELEPHONE LINE (UNDERGROUND)
---	---	IRRIGATION PIPELINE
○	○	CHAIN LINK FENCE
---	---	EDGE OF A.C. PAVEMENT
←	←	UTILITY POLE AND ANCHOR
E	E	ELECTRIC VAULT
○	●	MANHOLE / STANDPIPE
---	---	CULVERT (SIZE AS NOTED)
○	●	GUARD POST
△	△	CONTROL POINT
+	+	BENCHMARK
⊙	⊙	MONUMENT
TEL	TEL	TELEPHONE RISER
T	T	TELEPHONE VAULT
⊞	⊞	FLOW METER
⊗	⊗	WATER VALVE
⊕	⊕	CANAL GATE
⊞	⊞	WELL
→	→	SLOPE LINE
X	X	DETAIL NUMBER
---	---	SHEET NUMBER

GENERAL NOTES

- James Irrigation District (559-693-4356) shall be contacted at least 48 hours prior to commencement of work on or near existing District facilities.
- Used material, rejects, misfits, or seconds, etc. are not acceptable for use on James Irrigation District facilities.
- All construction shall be in conformance with these plans and project specifications.
- Contractor shall field verify the horizontal and vertical locations of all existing facilities prior to commencing work. Call Underground Service Alert (USA) at 811. Contractor shall make Engineer aware of any discrepancies.
- All cast-in-place concrete structures shall be formed inside and out and concrete vibrated sufficiently to provide for smooth surfaced walls/floors without voids and honeycombs.
- Engineer shall inspect all work phases on irrigation facilities for conformance to project specifications. Reinforcing shall not be encased in concrete without prior Engineer inspections. Likewise, concrete shall not be covered with earth prior to Engineer inspection.
- Concrete design mix shall be submitted to the engineer for review and approval. All concrete shall have a 28-day minimum compressive strength of 3000 psi unless otherwise specified.
- All steel pipe and fittings shall be furnished with a shop applied high solids epoxy coating on the interior and exterior, unless otherwise indicated. All other exposed steel shall be painted with a pre-treatment primer, an undercoat and a final coat of paint in accordance with project specifications.
- All nuts, bolts, and washers used to secure underground fittings shall be stainless steel. After installation, all steel hardware shall be coated with a rust preventative, wrapped with 4 mil polyethylene sheeting, and secure with PVC tape.
- All construction shall be performed in accordance with applicable health and safety laws of the State of California and CAL/OSHA standards.
- Trench backfill and reservoir embankments shall be compacted in accordance with the specifications and the geotechnical report contained in the specifications.
- Contractor will be responsible for the repair of all pipeline cracks, which develop during construction of improvements affecting existing facilities.
- Concrete vaults and boxes may be purchased from a precast manufacturer or Contractor may construct the structures if structural calculations and design is approved by the engineer.
- All excess material and/or debris shall be removed upon completion of installation.
- Contractor shall be responsible for providing adequate dust control at all times.

WARNING



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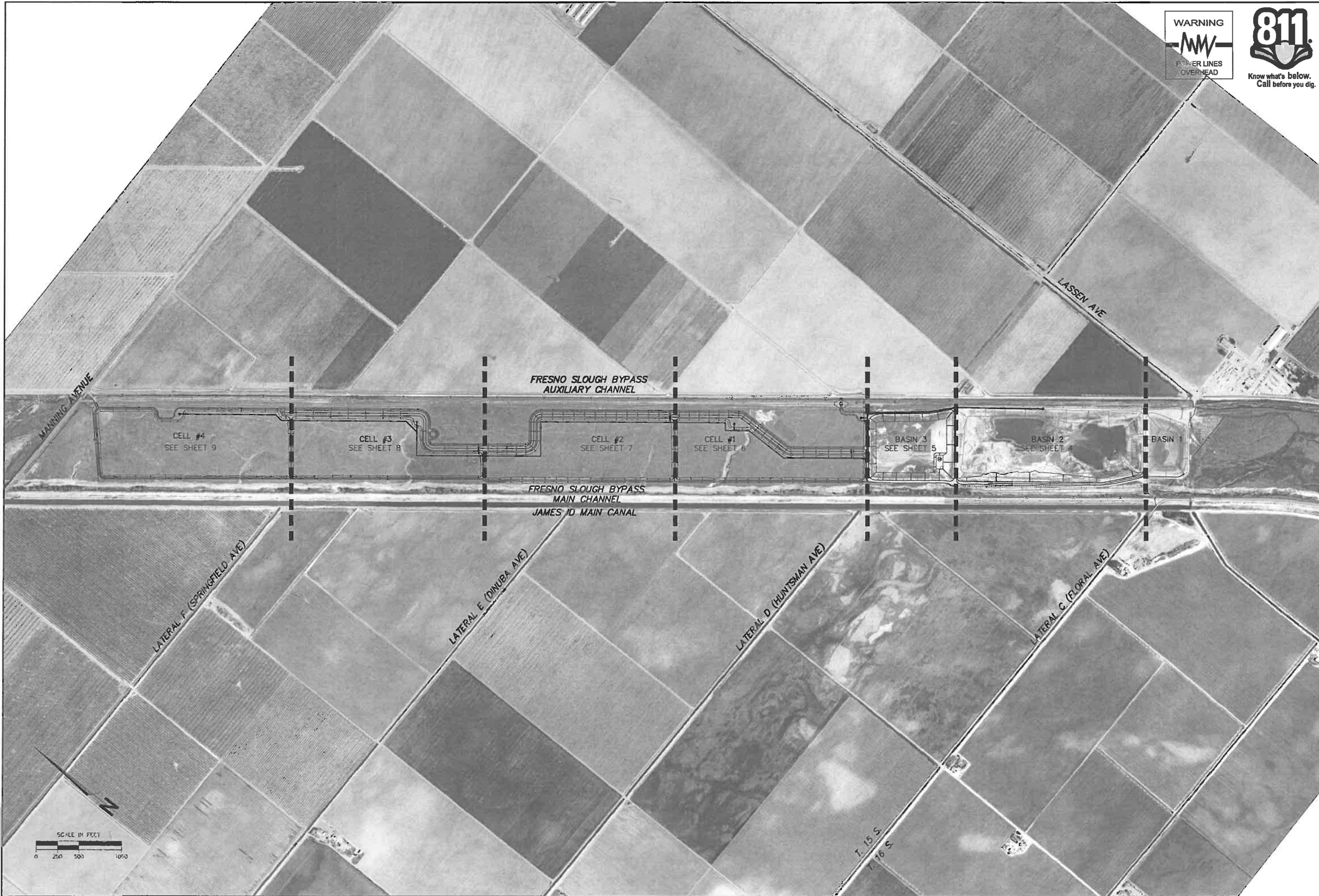


WATER AUGMENTATION PROJECT
FRESNO SLOUGH BYPASS IMPROVEMENTS
JAMES IRRIGATION DISTRICT
FRESNO COUNTY, CA

NOTES & LEGEND



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CHECKED BY:	BEE
SCALE:	AS SHOWN
DATE:	8/9/2011
JOB NO:	10510802
DWG. NO:	
SHEET	



WARNING
POWER LINES
OVERHEAD

811
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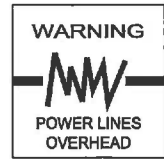
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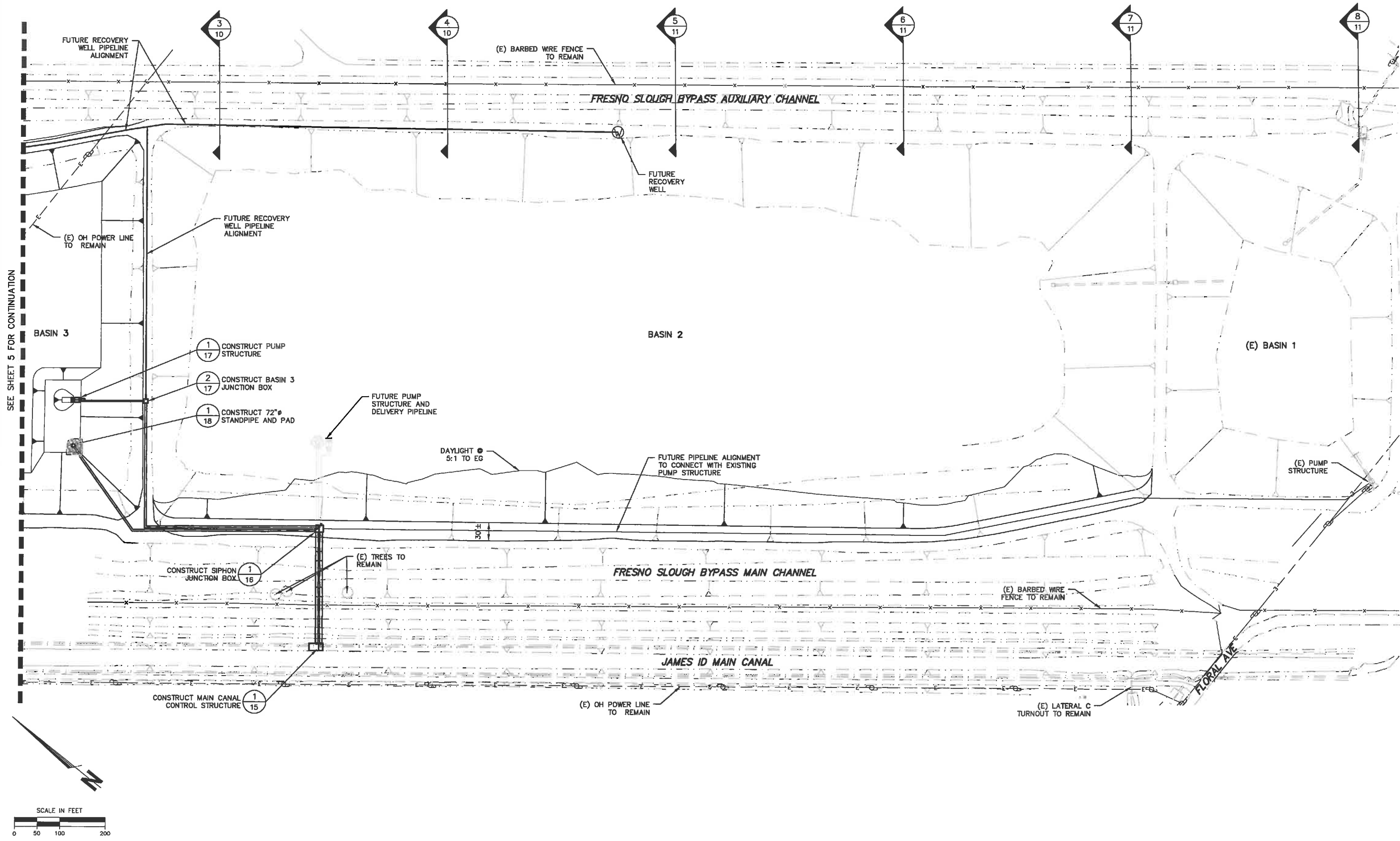
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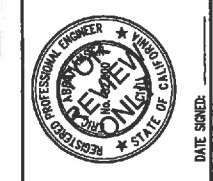


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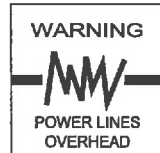
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BASIN 3 GRADING PLAN

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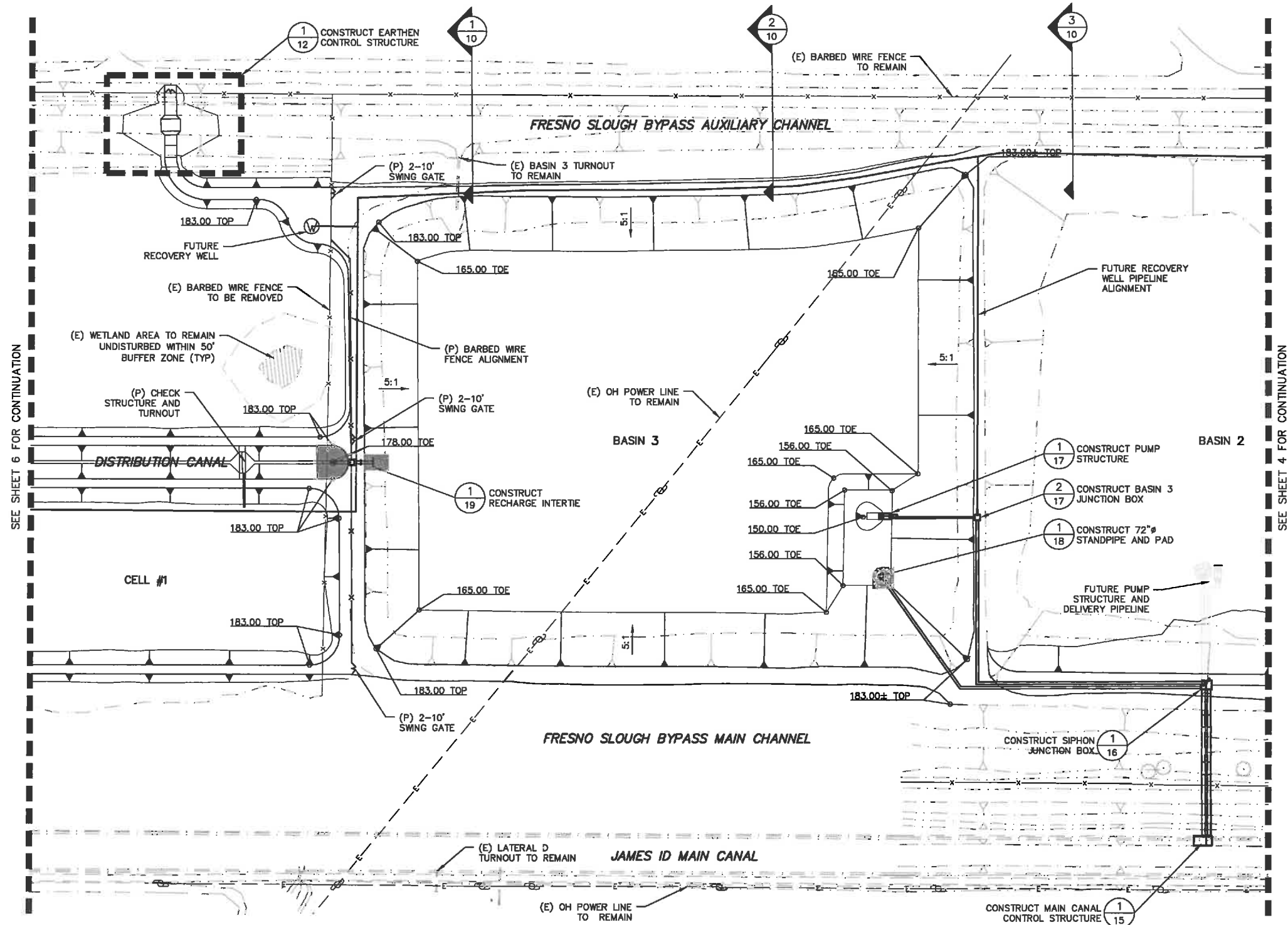
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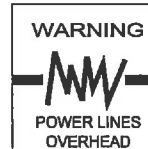
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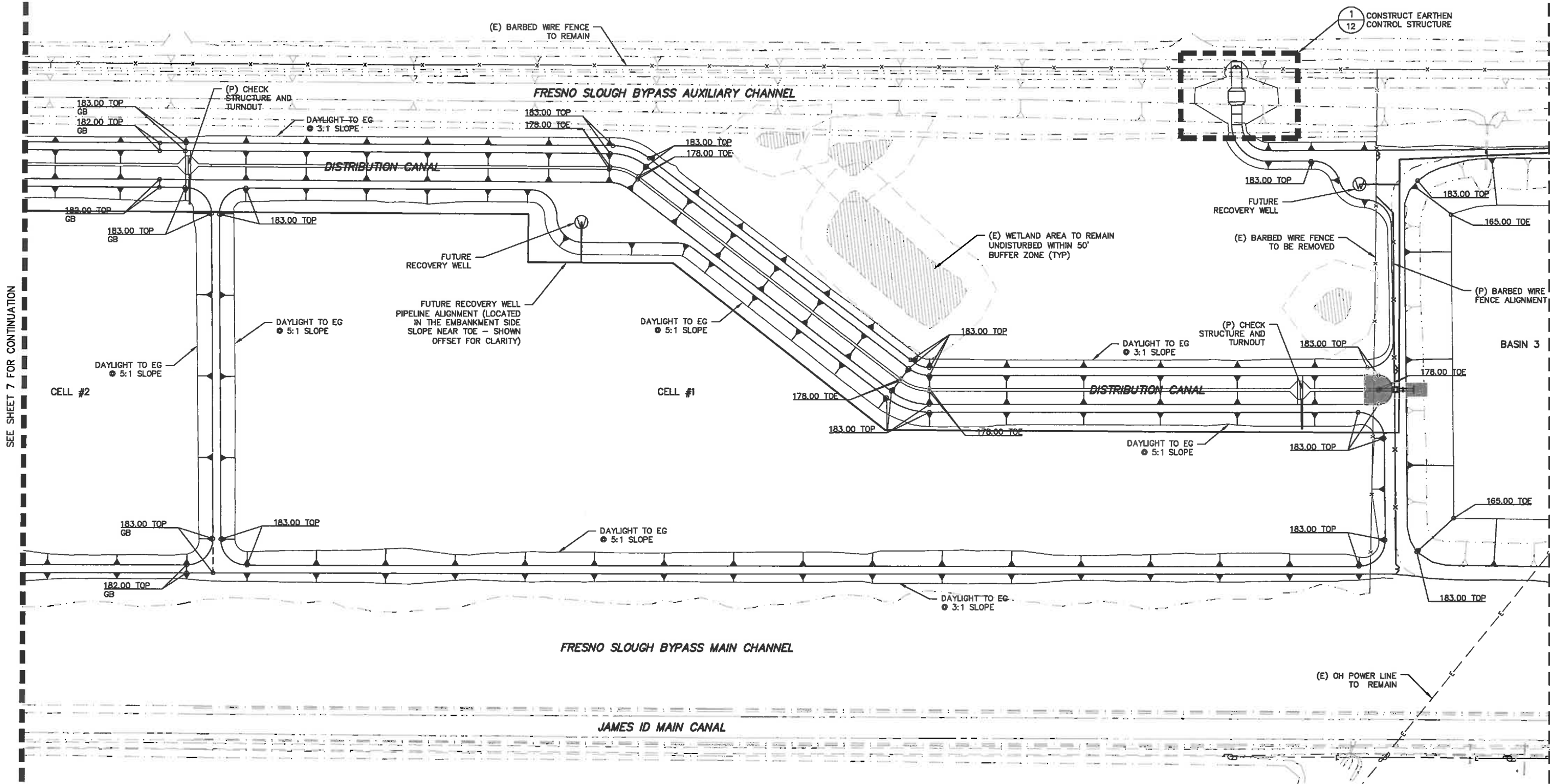
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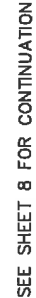
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FRESNO COUNTY, CA

CELL 2 GRADING PLAN

EST. 1969

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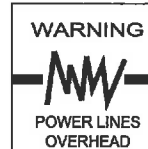
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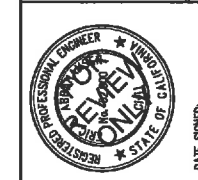
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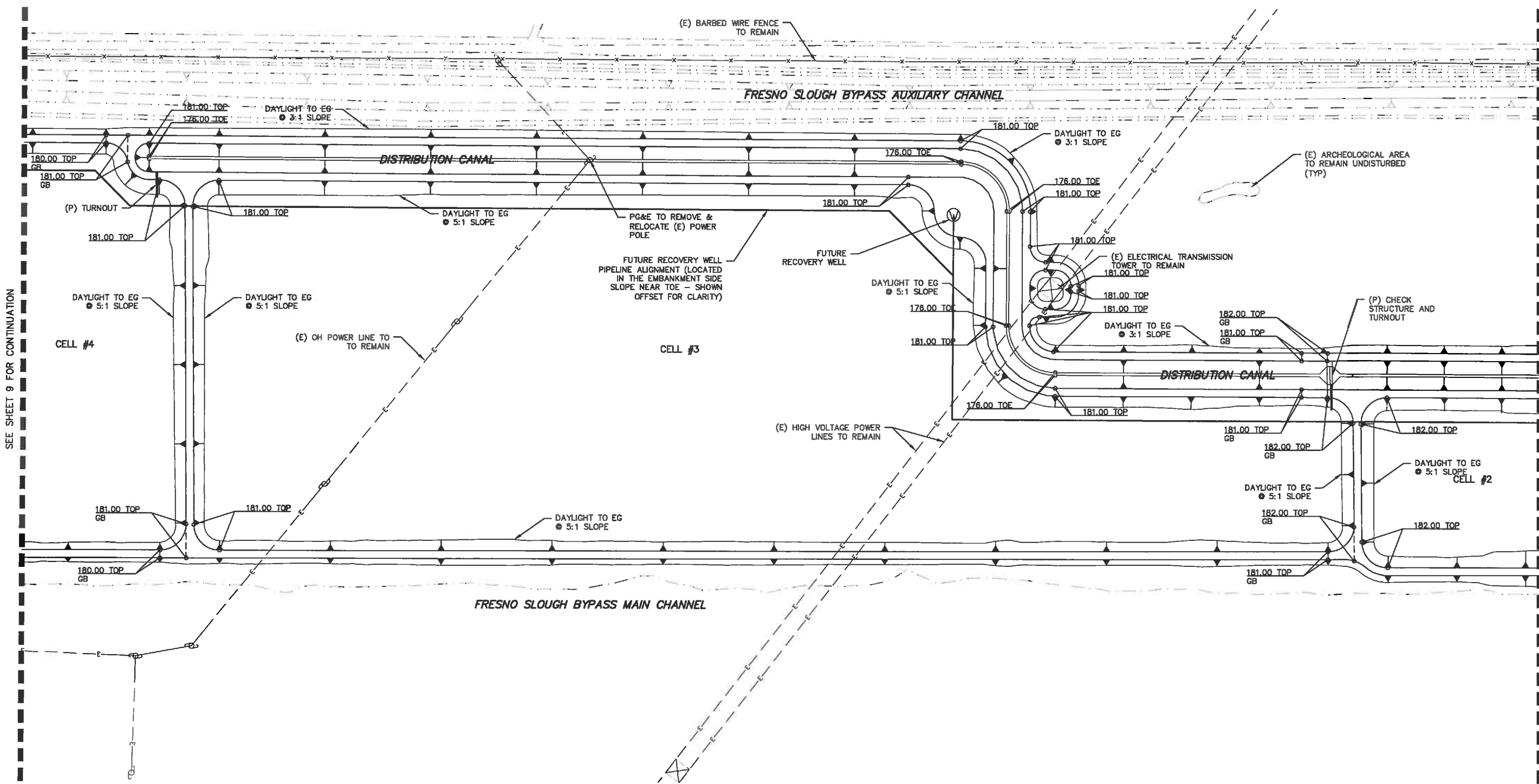
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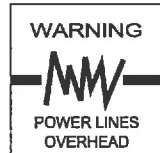
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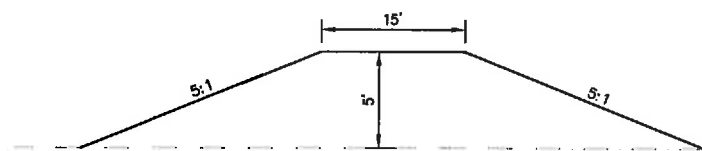
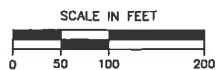
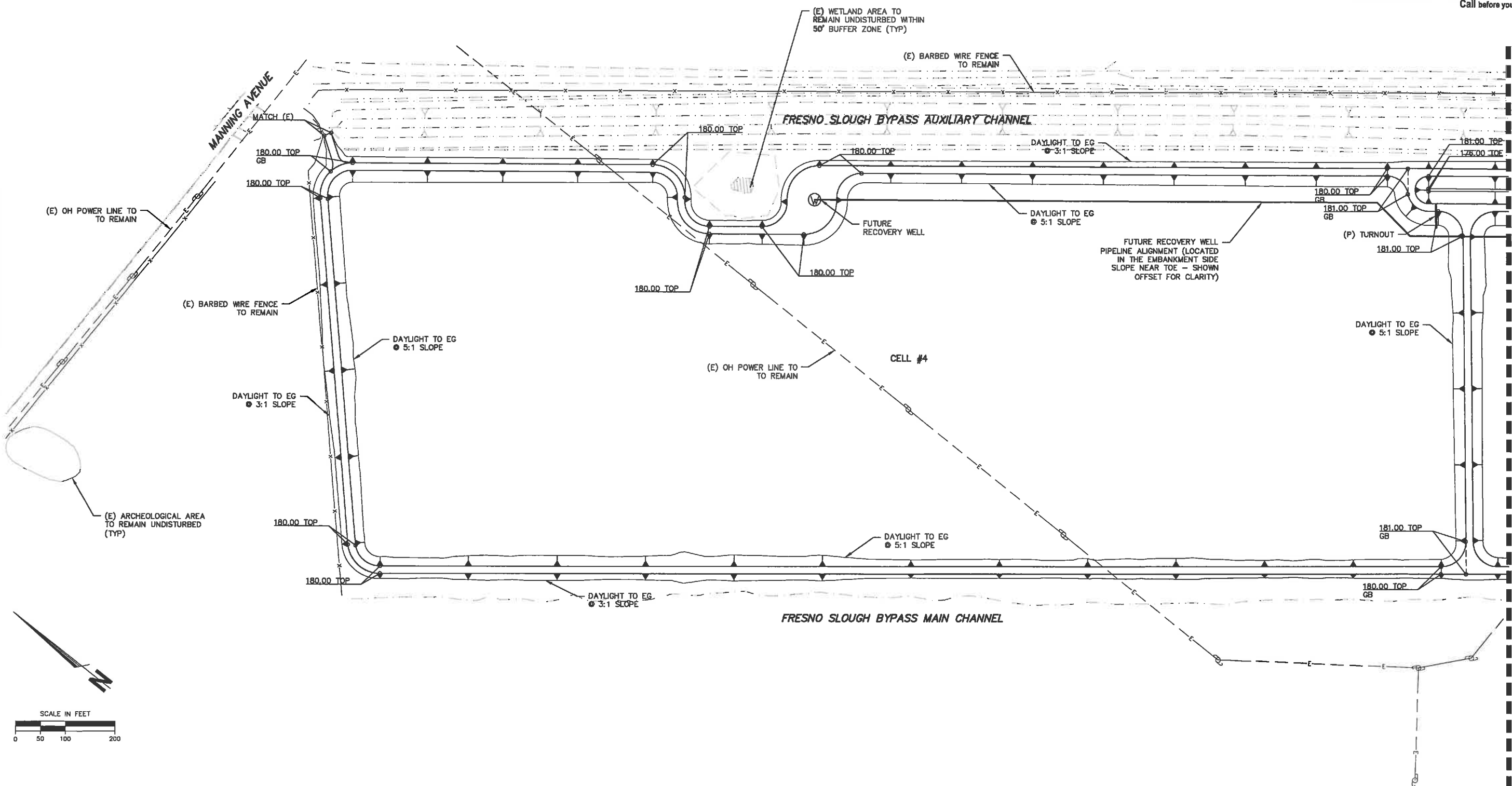


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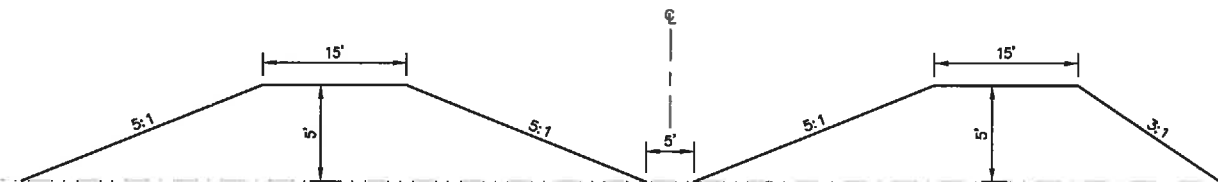
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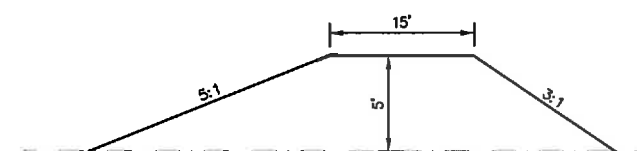
9 OF 21



TYPICAL INTERIOR LEVEE SECTION
SCALE: H: 1"=10' V: 1"=2'

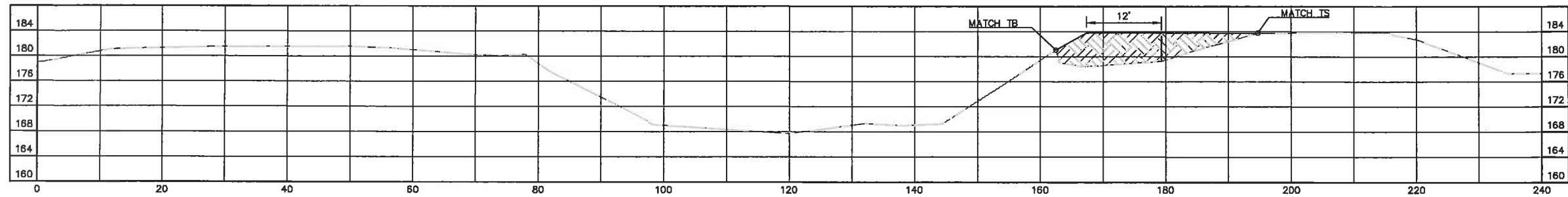


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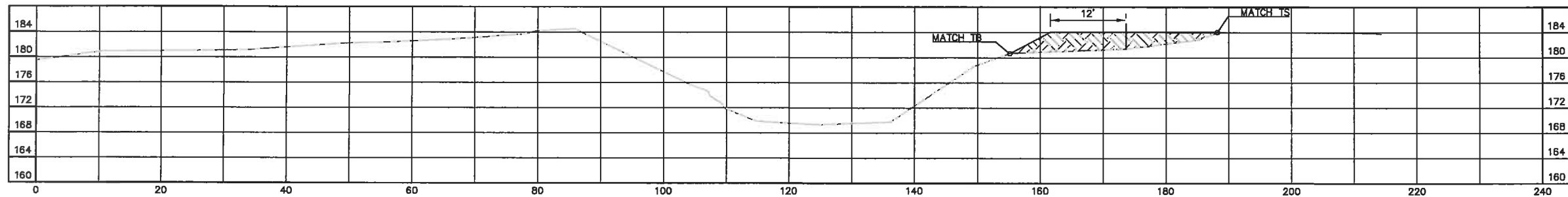


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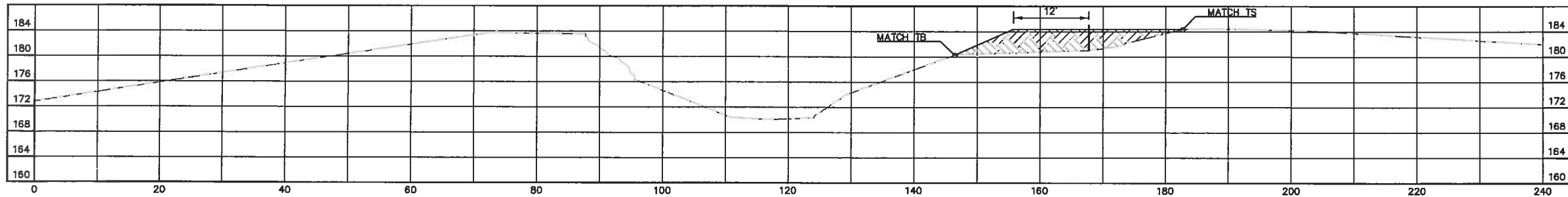
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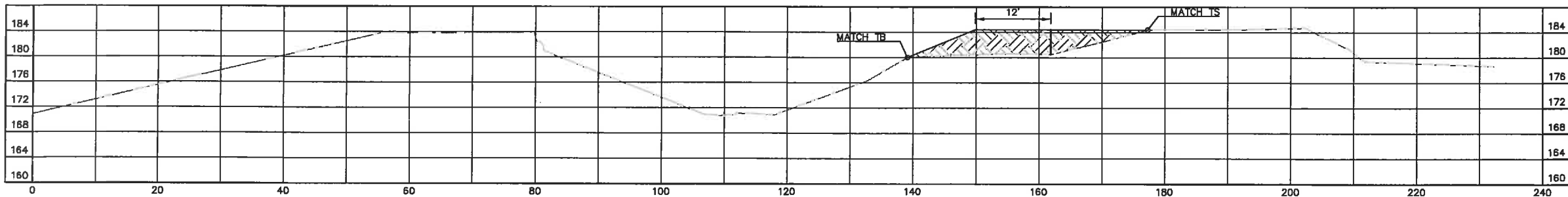
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10 SCALE: AS SHOWN



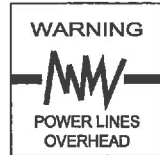
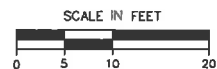
2 SECTION 2
10 SCALE: AS SHOWN



3 SECTION 3
10 SCALE: AS SHOWN



4 SECTION 4
10 SCALE: AS SHOWN



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08/09/2011
PHASES I, II, & III



WATER AUGMENTATION PROJECT
FRESNO SLOUGH BYPASS IMPROVEMENTS
JAMES IRRIGATION DISTRICT
FRESNO COUNTY, CA

FRESNO SLOUGH X-SECTIONS

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LICENSE NO:
CE 52,000

DRAFTED BY: P&C	CHECKED BY: BEE
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SCALE: AS SHOWN

DATE: 8/9/2011

JOB NO: 10510802

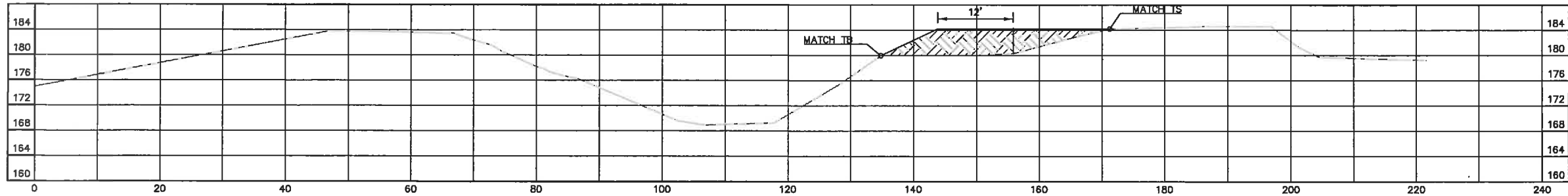
DWG. NO:

SHEET

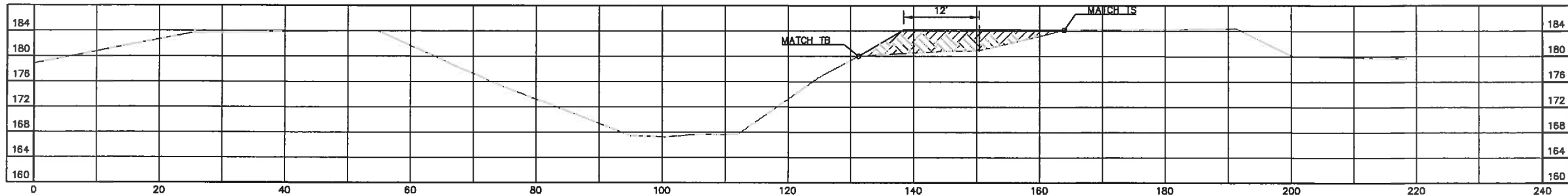
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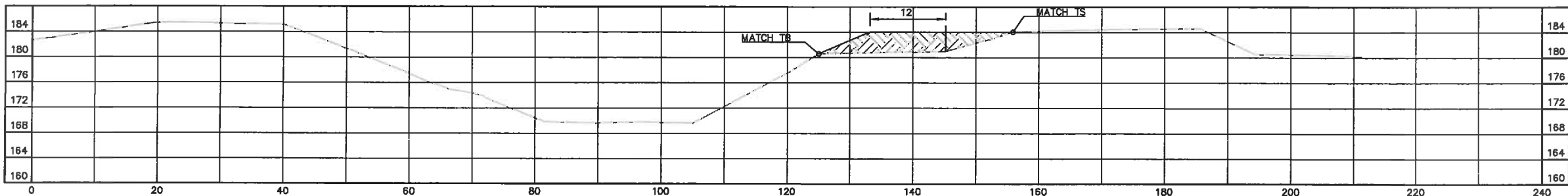
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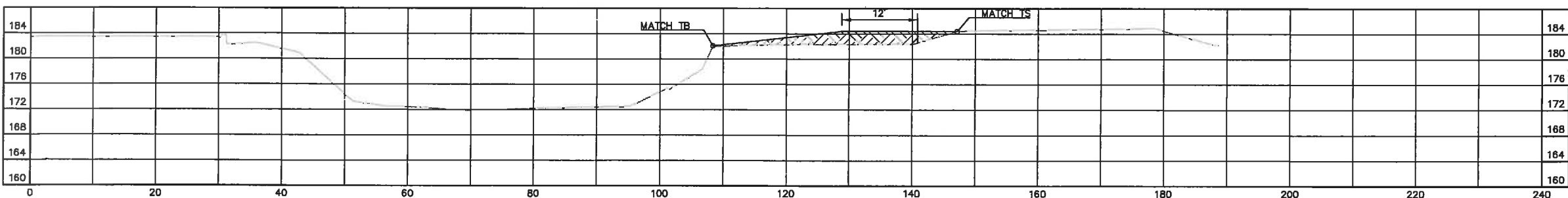
5 SECTION 5
11 SCALE: AS SHOWN



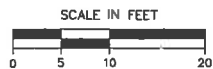
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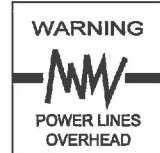
7 SECTION 7
11 SCALE: AS SHOWN



8 SECTION 8
11 SCALE: AS SHOWN

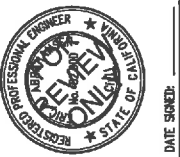


DESIGN NOTE:
SECTIONS ARE CUT EVERY 500 FEET ALONG THE
FRESNO SLOUGH BYPASS AUXILIARY CHANNEL,
BEGINNING AT THE EARTHEN DAM AND ENDING AT
THE CON-SPAN BRIDGE NEAR BASIN 1.



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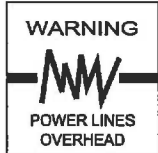
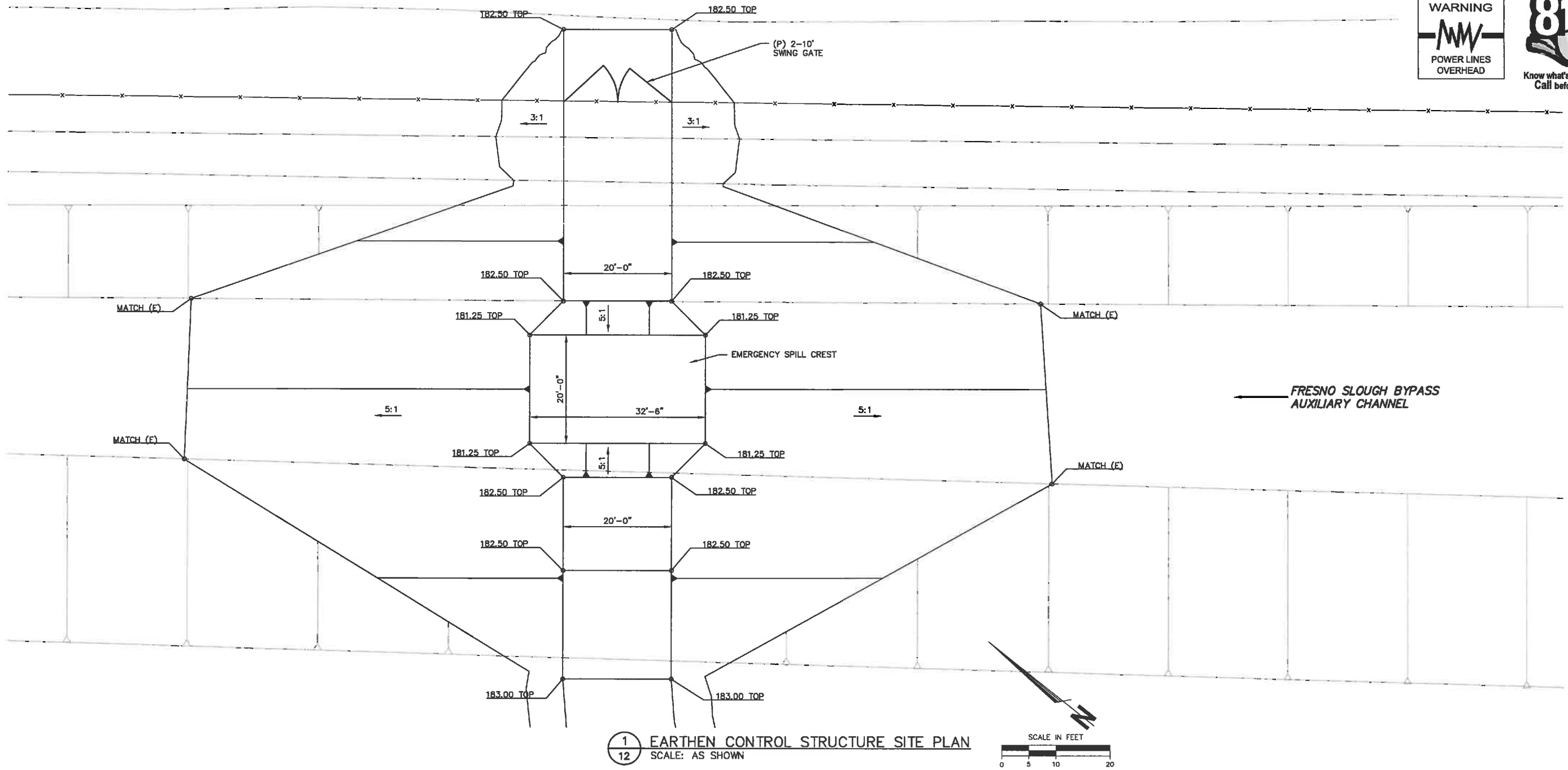
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WATER AUGMENTATION PROJECT
FRESNO SLOUGH BYPASS IMPROVEMENTS
JAMES IRRIGATION DISTRICT
FRESNO COUNTY, CA
FRESNO SLOUGH X-SECTIONS 2

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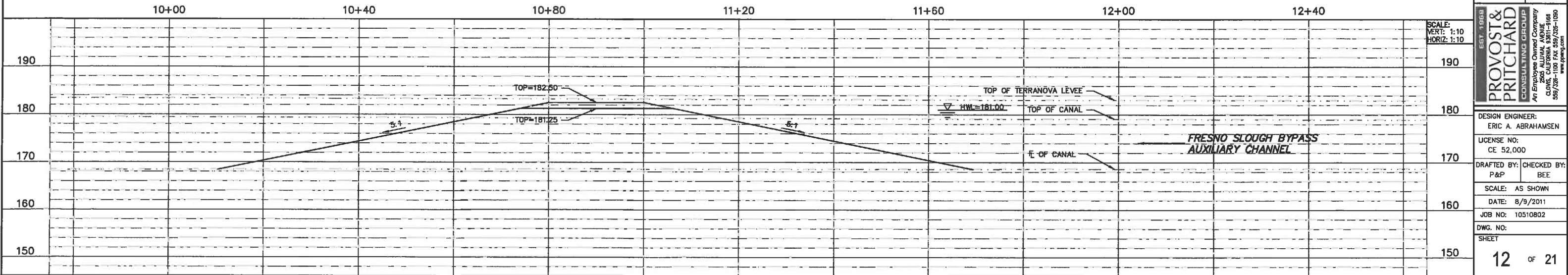
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WATER AUGMENTATION PROJECT
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FRESNO COUNTY, CA

EARTHEN CONTROL STRUCTURE

8/9/2011 8:14 AM G:\Clients\Verma D-1051\Projects\10510802-Water Augmentation\DWG\SHEET\10510802-ST-EARTHEN CONTROL STRUCTURE.dwg --Joe Hopkins



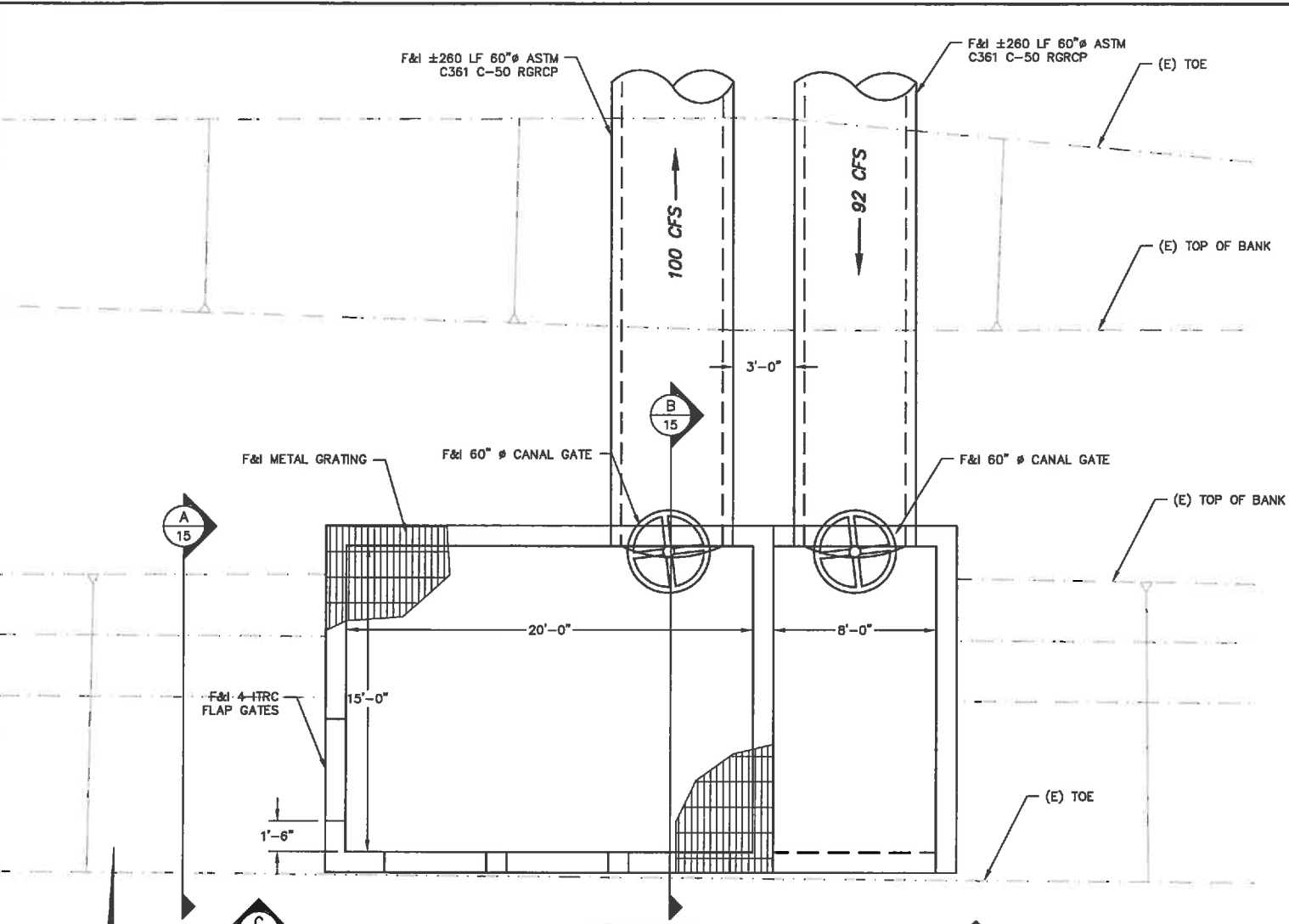
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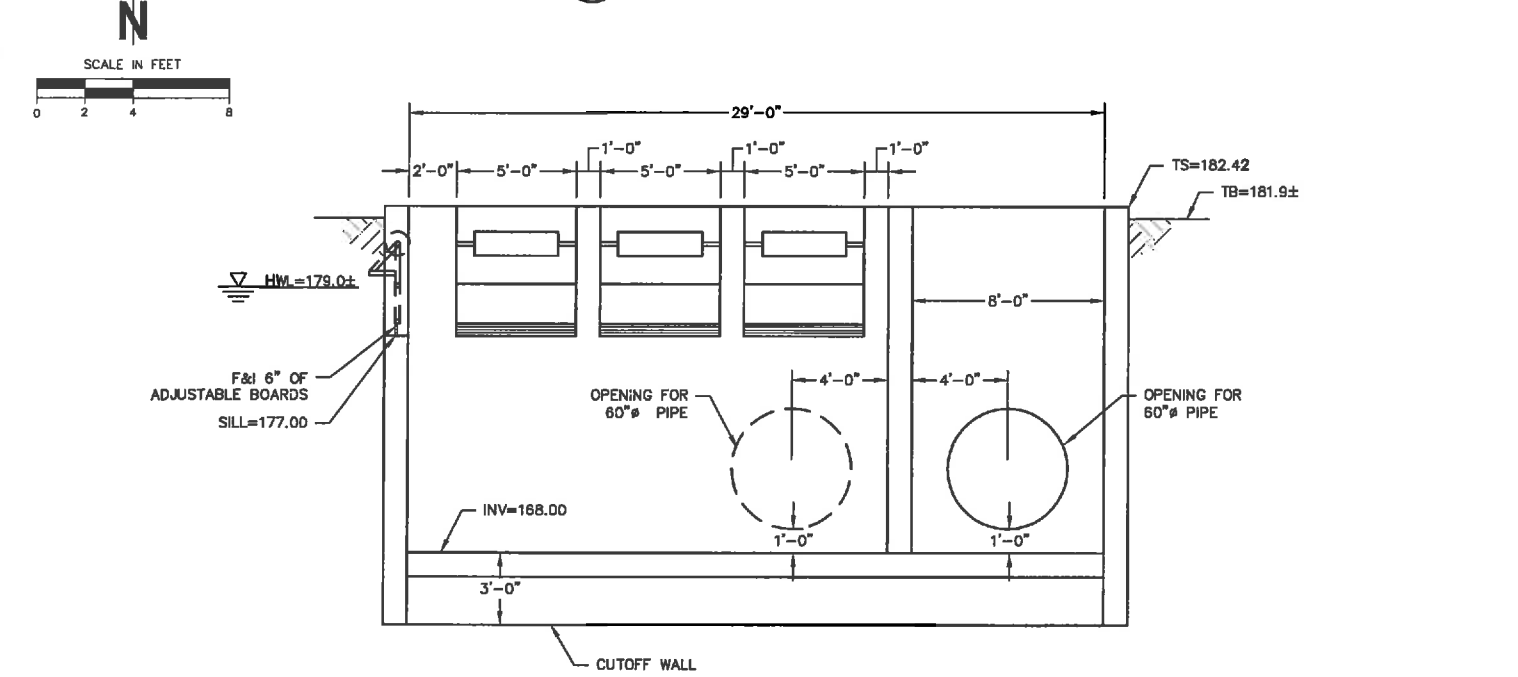
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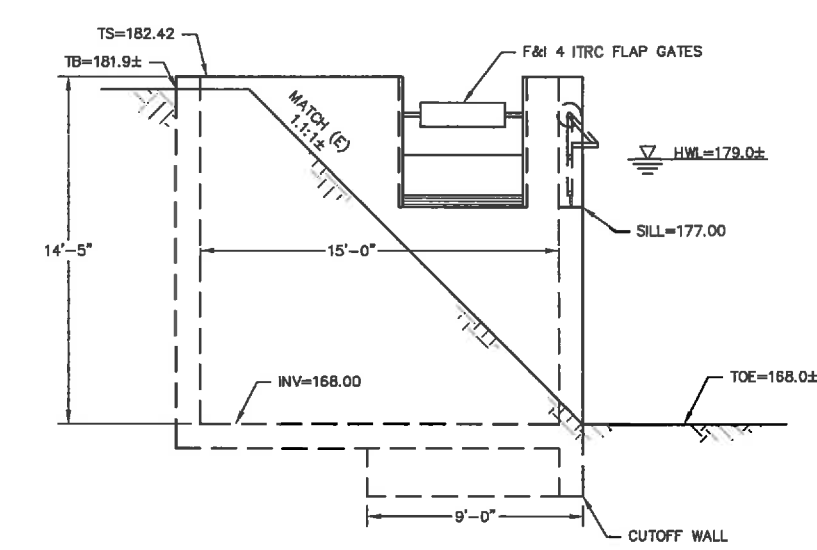
12 OF 21



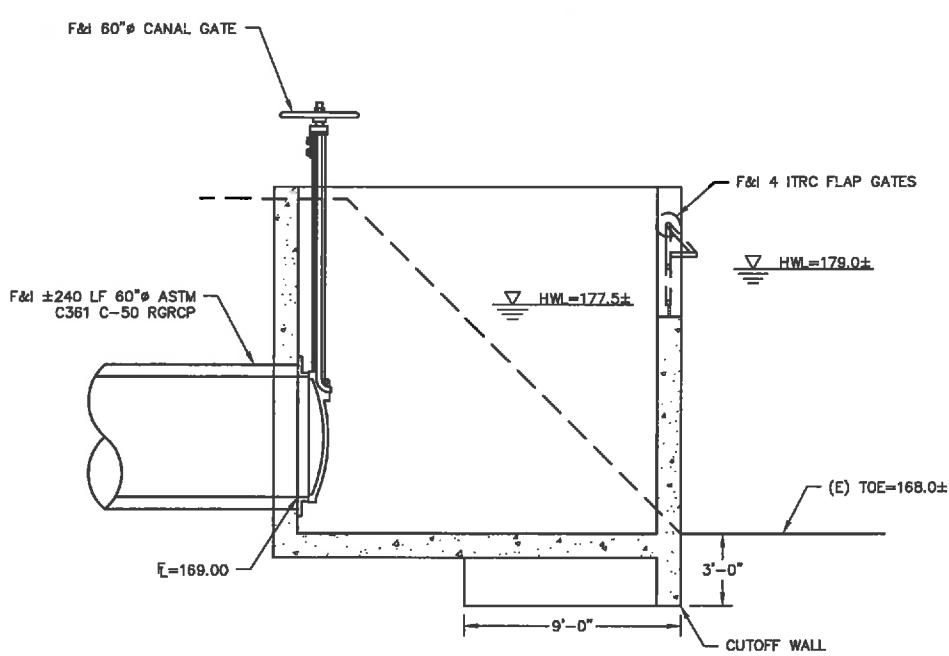
1 SITE PLAN
15 SCALE: AS SHOWN



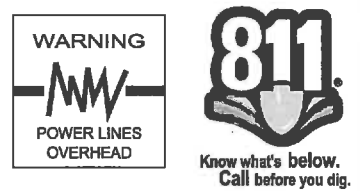
C ELEVATION VIEW
15 SCALE: AS SHOWN



A SECTION A-A
15 SCALE: AS SHOWN



B SECTION B-B
15 SCALE: AS SHOWN



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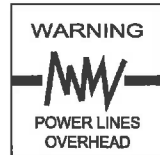
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MAIN CANAL CONTROL STRUCTURE

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15 OF 21



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WATER AUGMENTATION PROJECT
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SIPHON JUNCTION BOX

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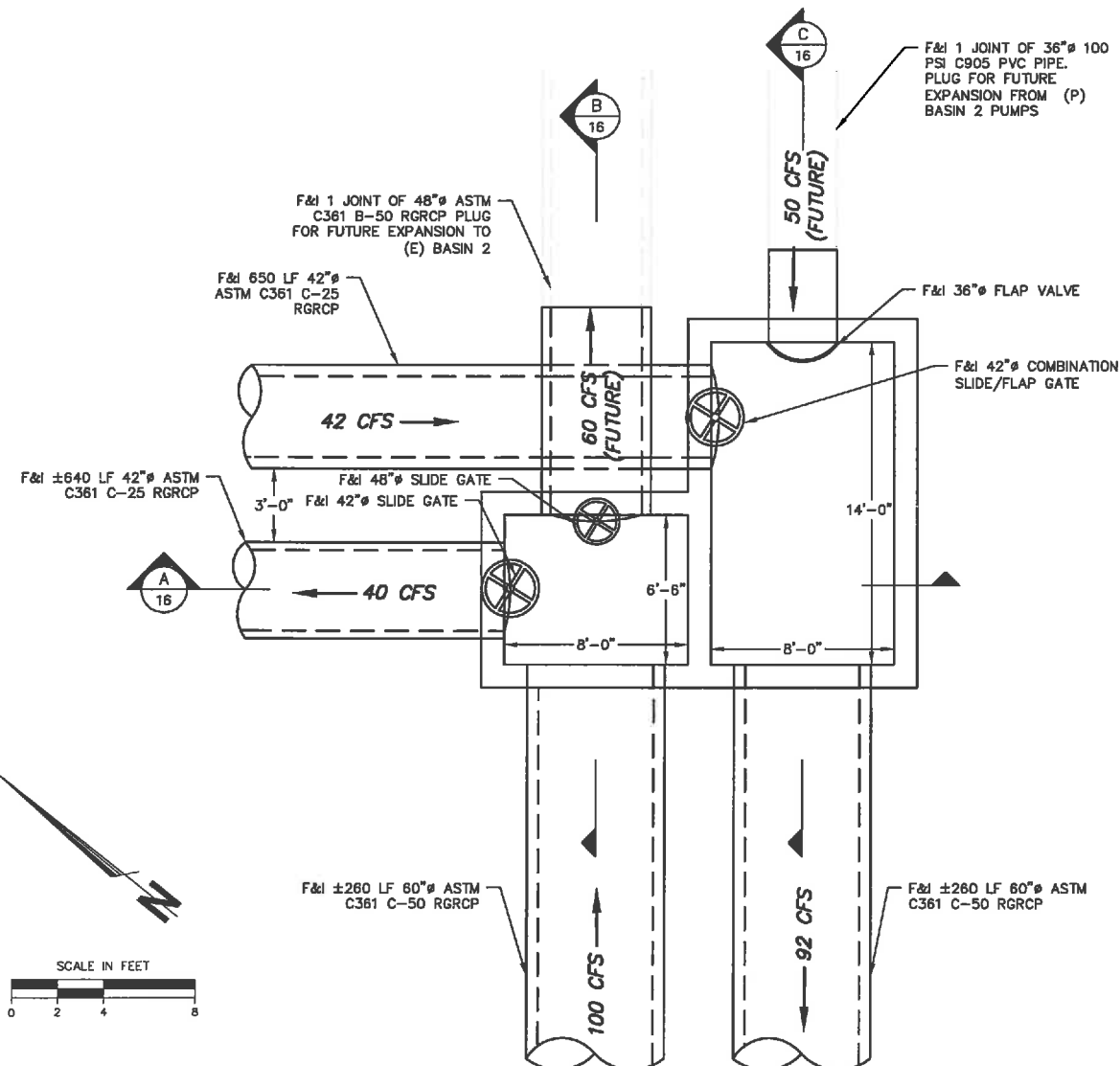
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JOB NO: 10510802

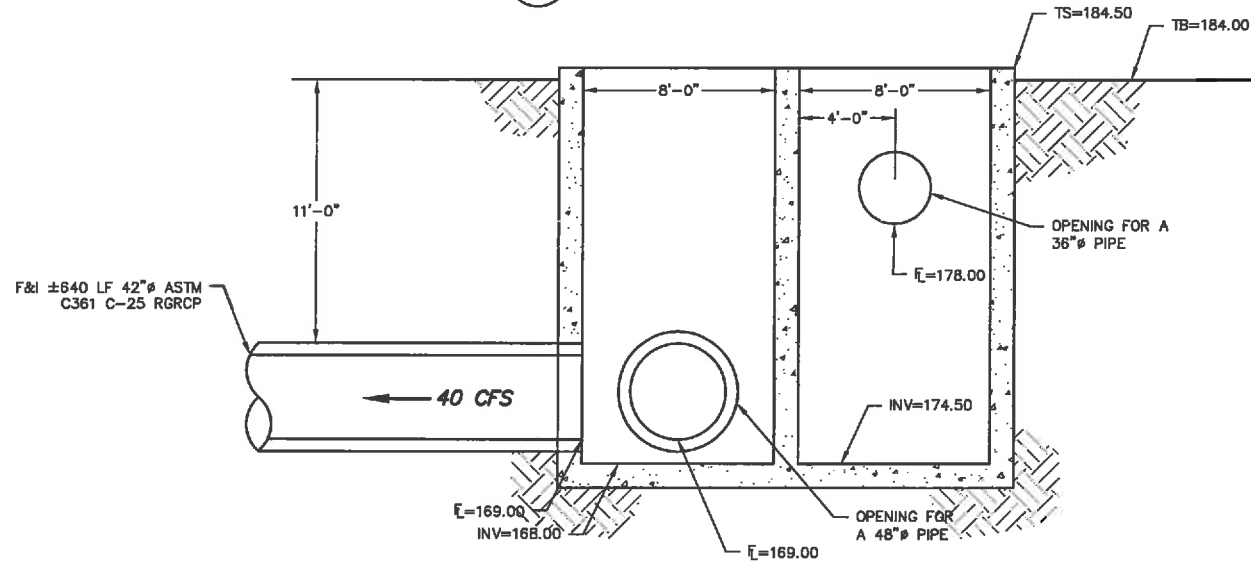
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SHEET

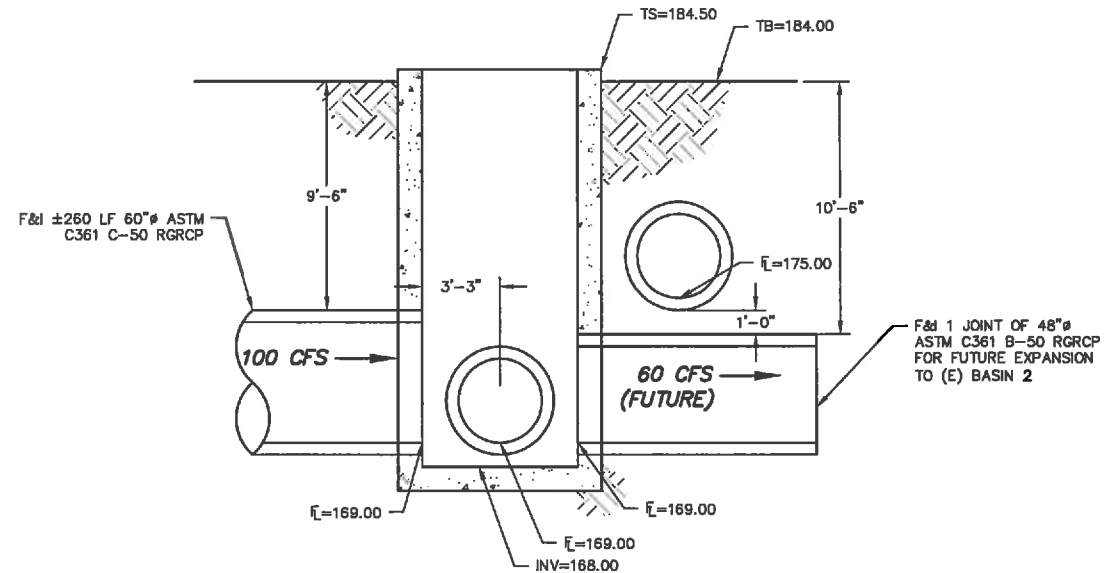
16 OF 21



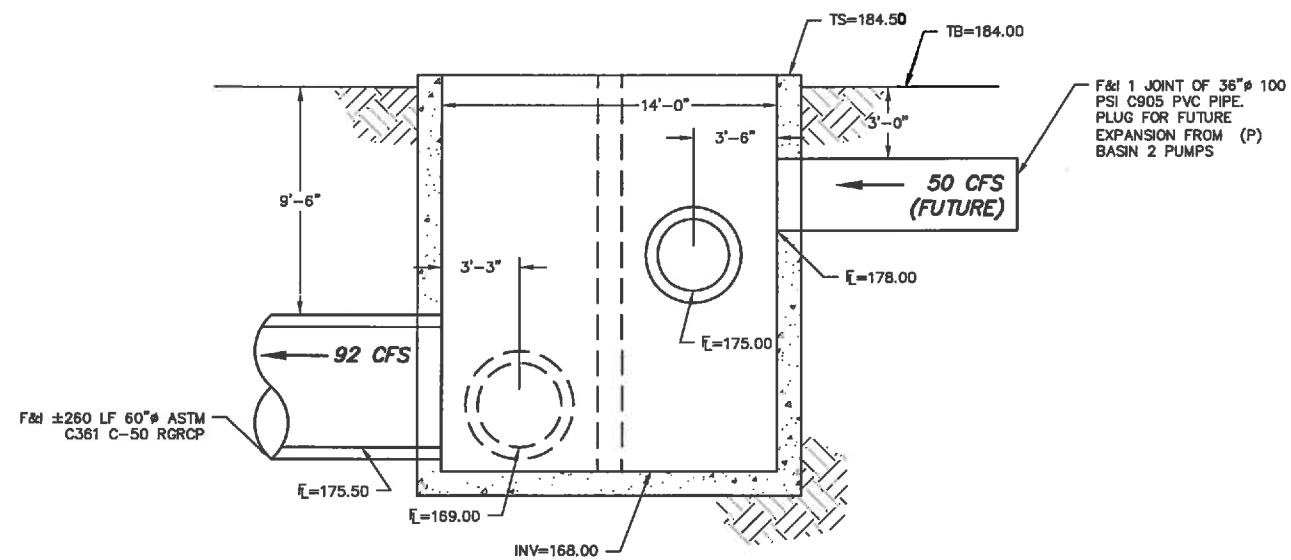
1 SIPHON JUNCTION BOX (SITE PLAN)
16 SCALE: AS SHOWN



A SECTION A-A
16 SCALE: AS SHOWN

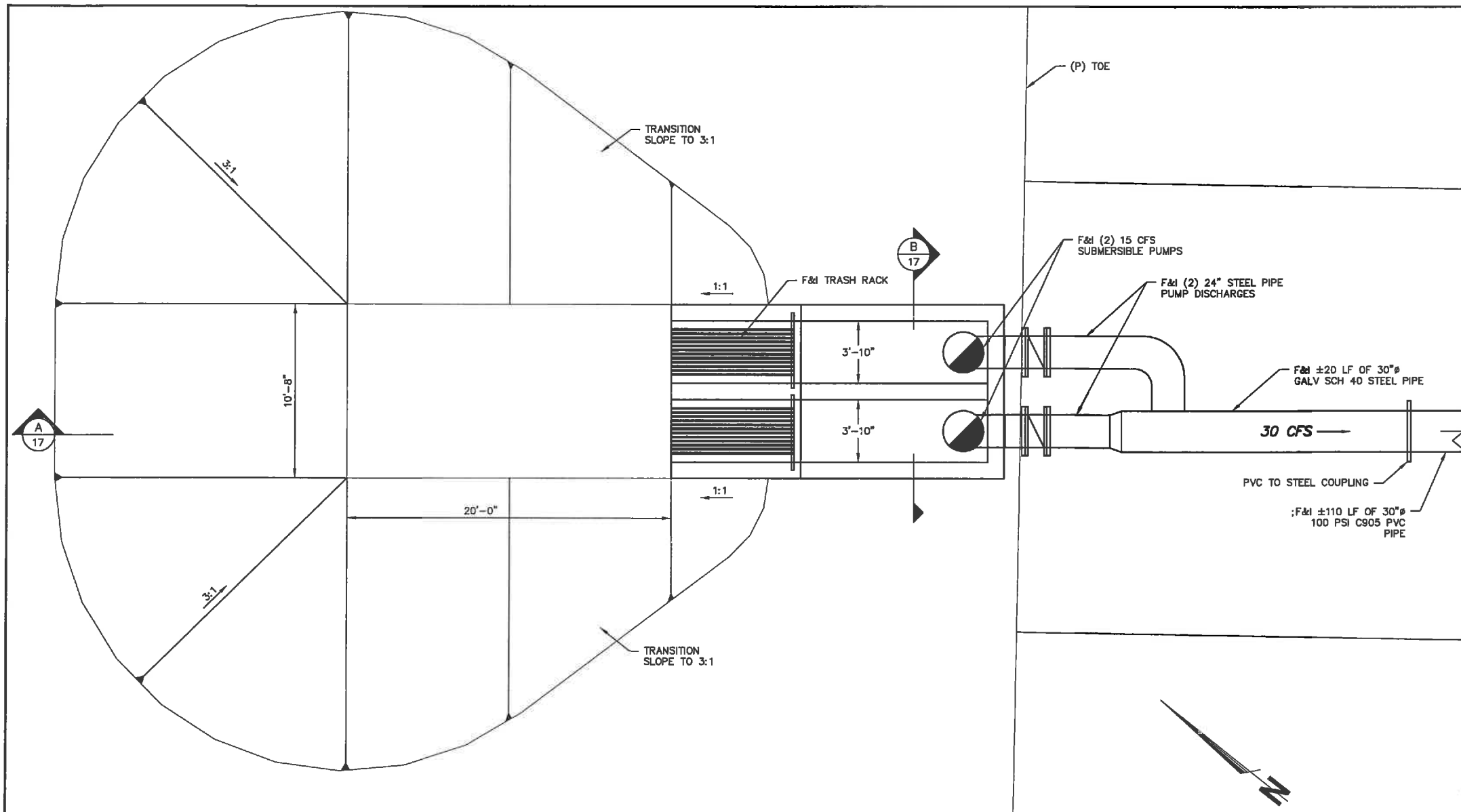


B SECTION B-B
16 SCALE: AS SHOWN

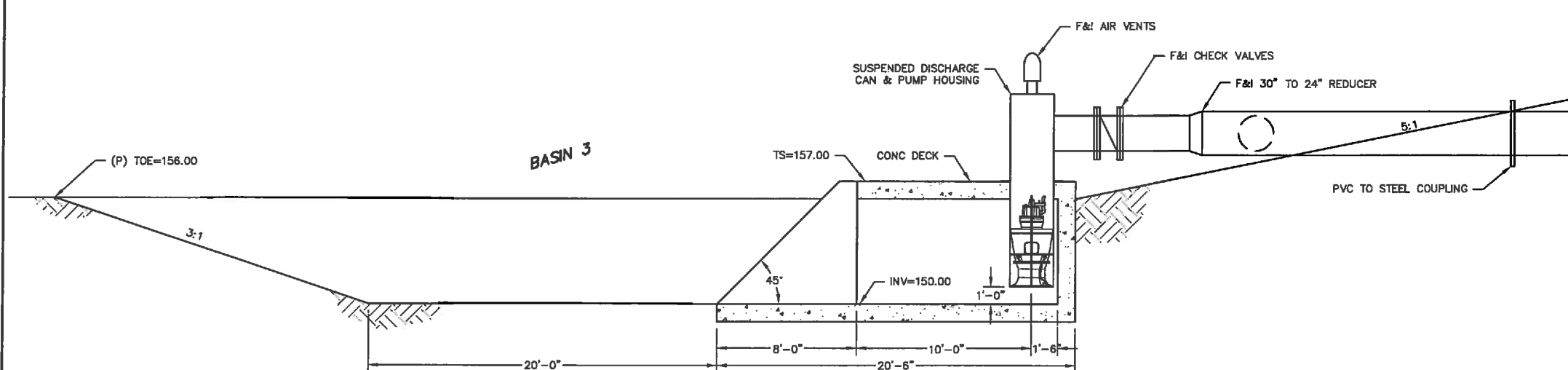


C SECTION C-C
16 SCALE: AS SHOWN

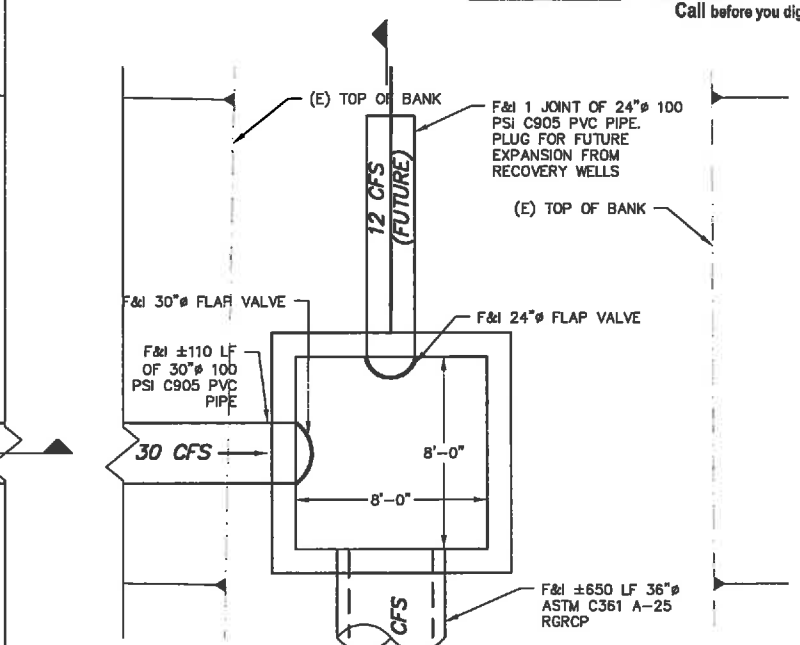
DESIGN NOTE:
42" PIPELINE INVERT FROM BASIN 3 SET DEEP TO ACCOMMODATE REVERSE FLOW.



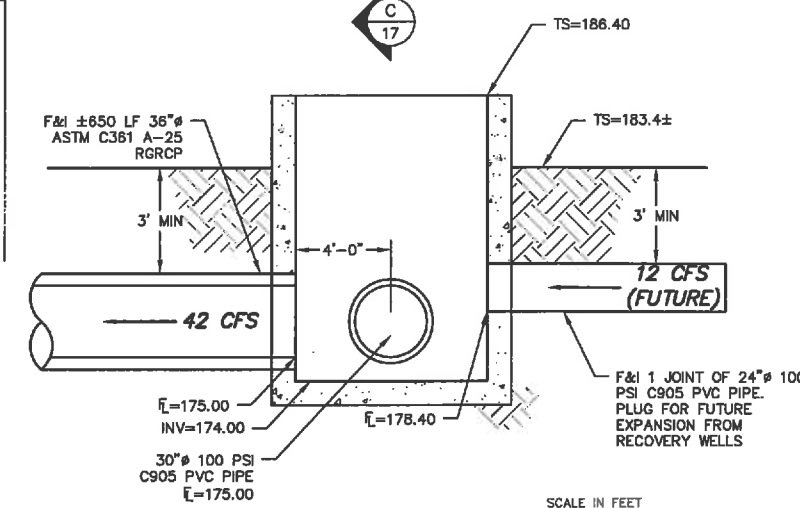
1 PUMP STRUCTURE (SITE PLAN)
SCALE: AS SHOWN



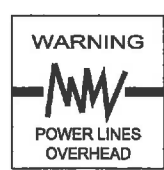
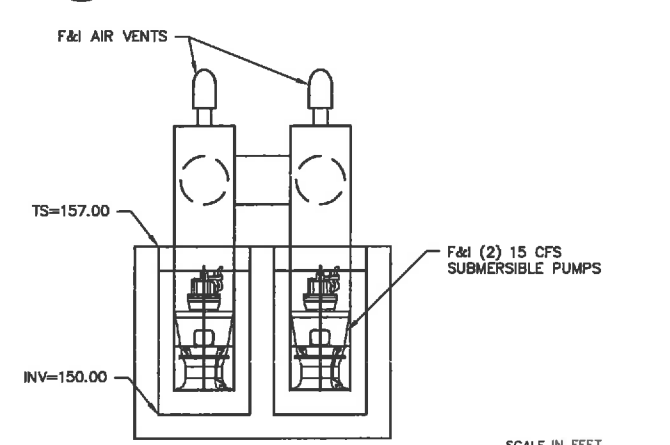
A SECTION A-A
SCALE: AS SHOWN



C SECTION C-C
SCALE: SITE PLAN



B SECTION B-B
SCALE: AS SHOWN



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17 OF 21

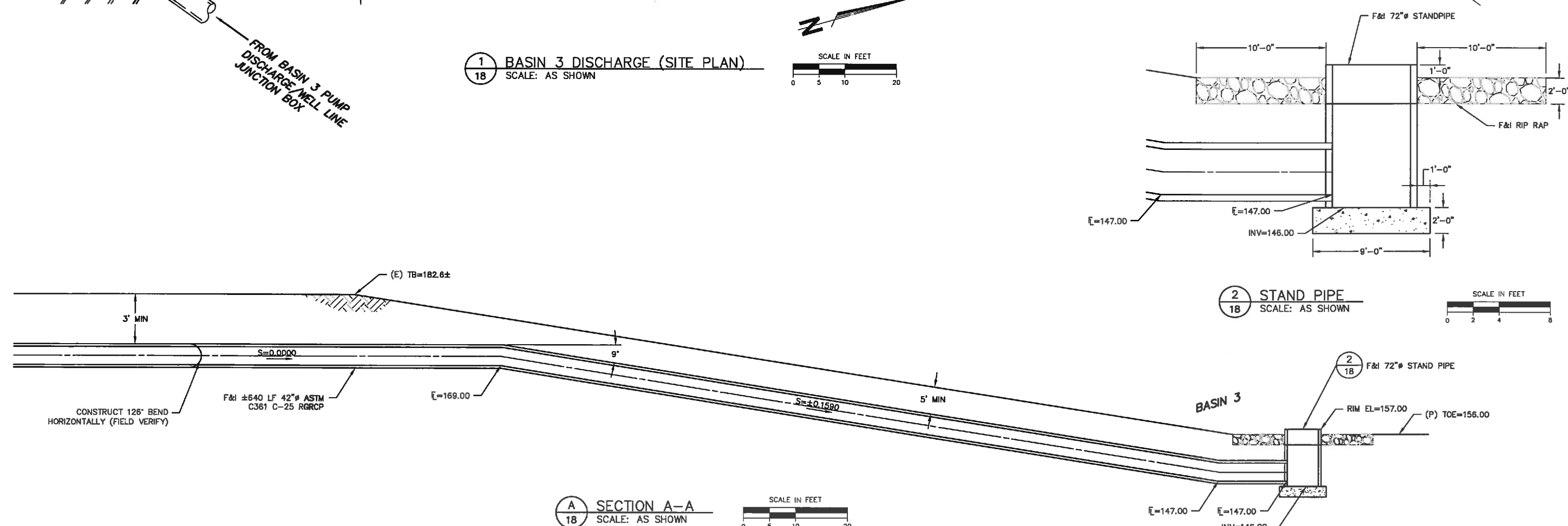
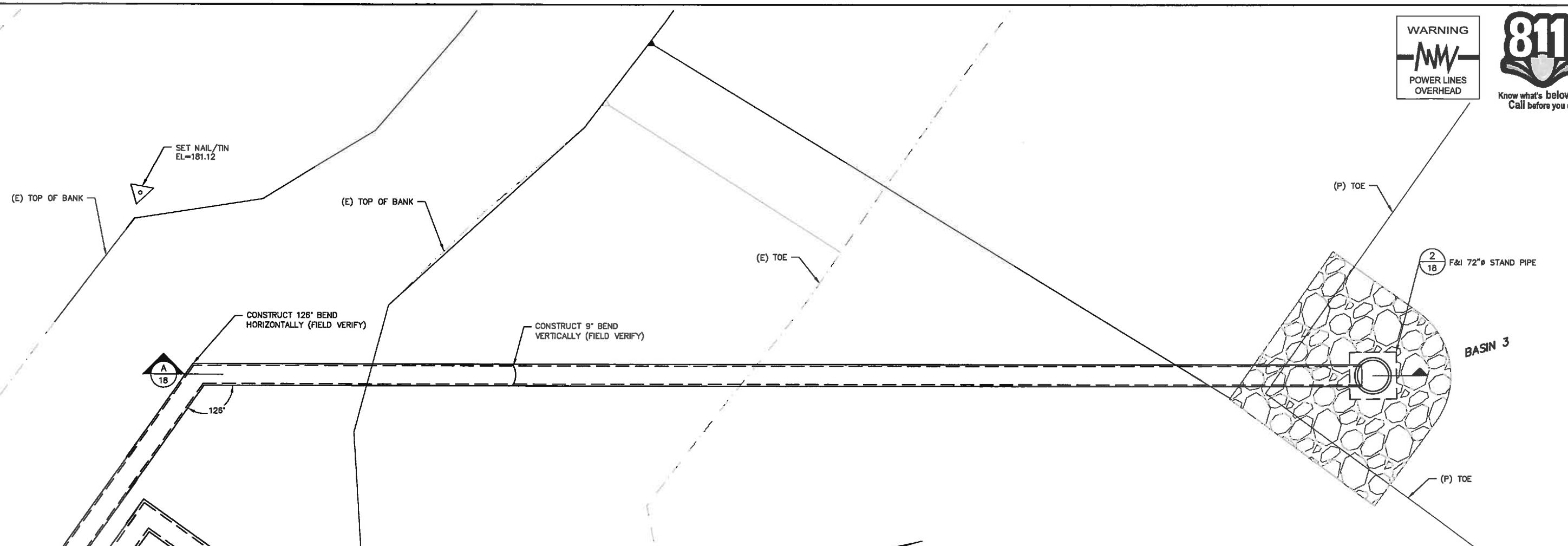
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08/09/2011
PHASES I, II, & III

WATER AUGMENTATION PROJECT
FRESNO SLOUGH BYPASS IMPROVEMENTS
JAMES IRRIGATION DISTRICT
FRESNO COUNTY, CA

BASIN 3 PUMP STRUCTURE AND WELL LINE JUNCTION

DATE: 08/09/2011
BY: [Signature]
REVISION: [Signature]
DATE: [Signature]

DATE: 08/09/2011
BY: [Signature]
REVISION: [Signature]
DATE: [Signature]



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No.	REVISION	BY	DATE
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<p>WATER AUGMENTATION PROJECT FRESNO SLOUGH BYPASS IMPROVEMENTS JAMES IRRIGATION DISTRICT FRESNO COUNTY, CA</p>	<p>BASIN 3 DISCHARGE</p>
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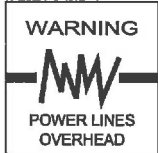
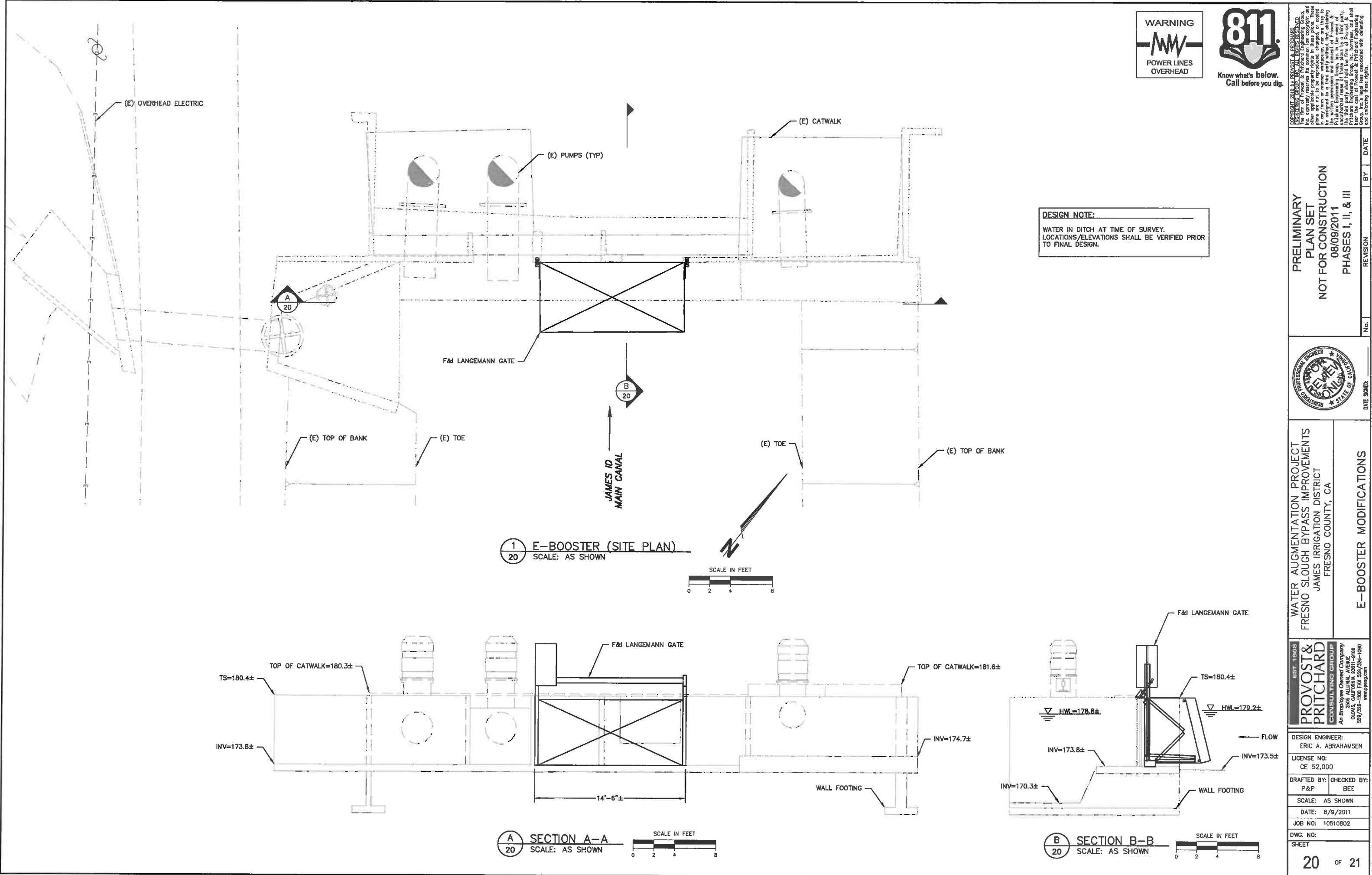
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DATE: 8/9/2011	
JOB NO: 10510802	
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DESIGN NOTE:
WATER IN DITCH AT TIME OF SURVEY.
LOCATIONS/ELEVATIONS SHALL BE VERIFIED PRIOR
TO FINAL DESIGN.

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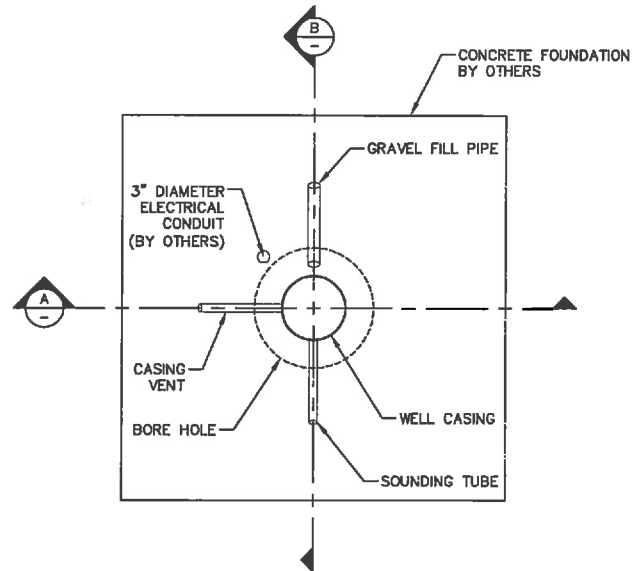
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FRESNO COUNTY, CA

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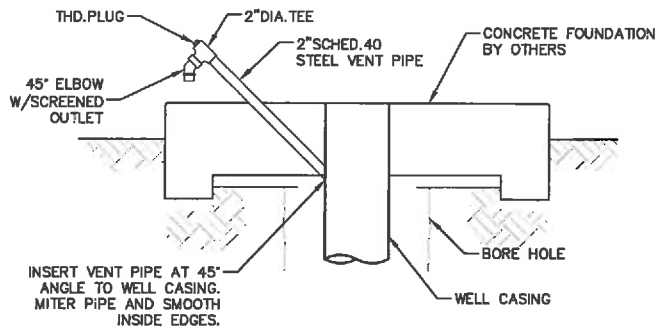
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8/9/2011 8:20 AM G:\Clients\James ID-1051\Projects\10510802-Water Augmentation\DWG\SHEET\10510802-ST-EBOOSTER.dwg - Joe Hopkins

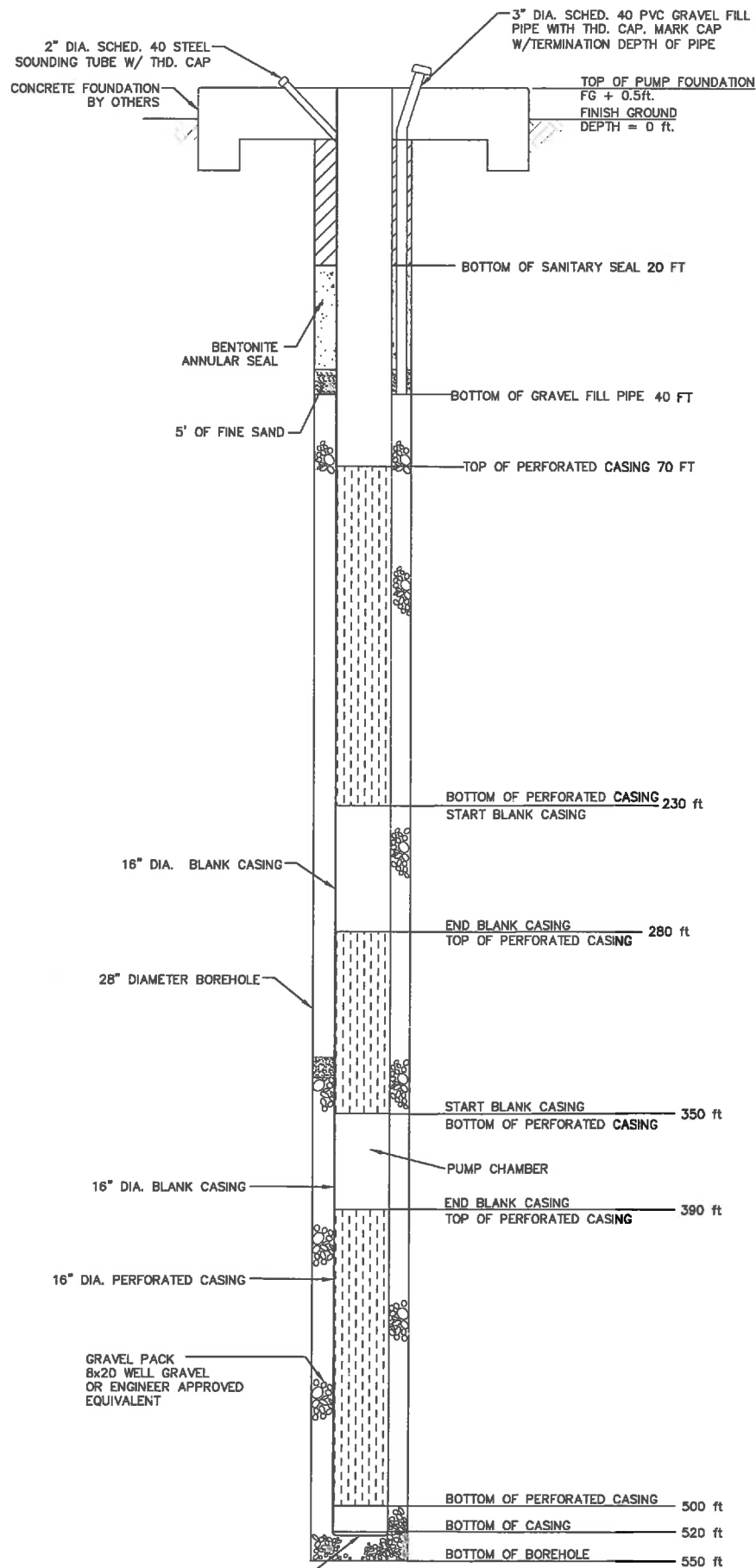


WELL HEAD PLAN
SCALE: NTS



SECTION A-A
SCALE: NTS

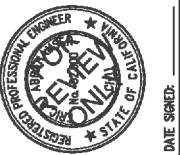
PRODUCTION WELL DATA	
FINISHED TOP OF WELL CASING	0.75 FOOT ABOVE GROUND
FINISHED TOP OF CONDUCTOR CASING	0.25 FOOT BELOW GROUND
DEPTH TO TOP OF PERFORATED CASING	70 FT
DEPTH TO BOTTOM OF PERFORATED CASING	500 FT
DEPTH TO TOP OF GRAVEL PACK	40 FT
TOTAL DEPTH OF BOREHOLE	550 FT



PRODUCTION WELL
SCALE: NTS

- NOTES:**
- CAL-OSHA SAFETY REQUIREMENTS SHALL BE IN EFFECT DURING ALL CONSTRUCTION. SPECIAL PRECAUTIONS SHALL BE TAKEN WHEN WORKING IN THE VICINITY OF GAS, OIL, PHONE OR ELECTRIC LINES. CAUTION TO BE EXERCISED WHILE WORKING ALONG PLACER AVENUE DUE TO VEHICULAR TRAFFIC.
 - THE EXACT LOCATION OF WELLS SHALL BE STAKED IN THE FIELD AND APPROVED BY JAMES IRRIGATION DISTRICT.
 - OWNER SHALL MAKE WATER AVAILABLE TO THE WELL DRILLER FOR NO CHARGE FROM WELLS C-B1 OR C-87. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE ANY WELL PIPING MODIFICATIONS & TRUCKS/TANKS NEEDED TO ENABLE CONTRACTOR TO CONVEY WATER TO THE SITE. CONTRACTOR SHALL RETURN THE SITE AND WELL PIPING TO ITS ORIGINAL CONFIGURATION.
 - FINAL PERFORATION AND BLANK INTERVALS WILL BE BASED ON REVIEW BY THE DISTRICT'S ENGINEER AND GEOLOGIST OF TEST HOLE BAGGED DRILL CUTTING SAMPLES, ELECTRIC LOG AND SONIC LOG.
 - MONITOR WELL CONSTRUCTION SHALL BE ACCORDING TO THIS PLAN, TECHNICAL SPECIFICATION SECTION 0271, AND THE CONTRACT AGREEMENT.
 - PRODUCTION WELL CONSTRUCTION SHALL BE ACCORDING TO THIS PLAN, TECHNICAL SPECIFICATION 0272, AND THE CONTRACT AGREEMENT.
 - QUANTITIES ARE NOT GUARANTEED. FINAL PAYMENT IS TO BE BASED ON ACTUAL QUANTITIES AND BID UNIT PRICES.

PRELIMINARY
PLAN SET
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08/09/2011
PHASES I, II, & III



WATER AUGMENTATION PROJECT
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