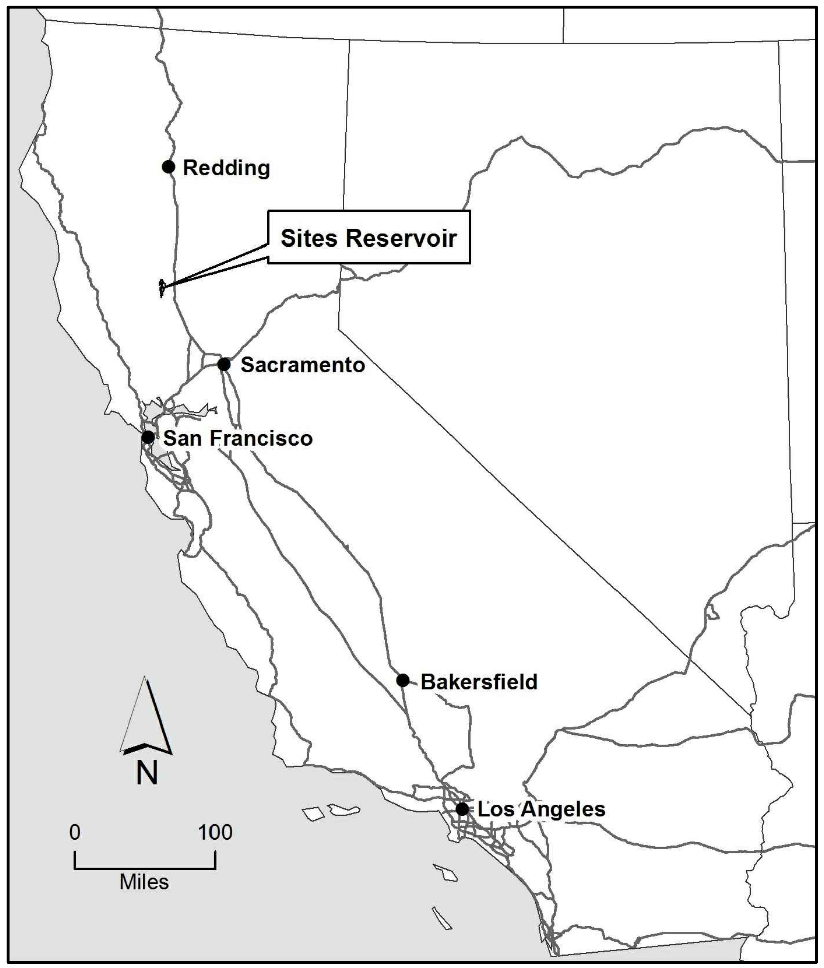
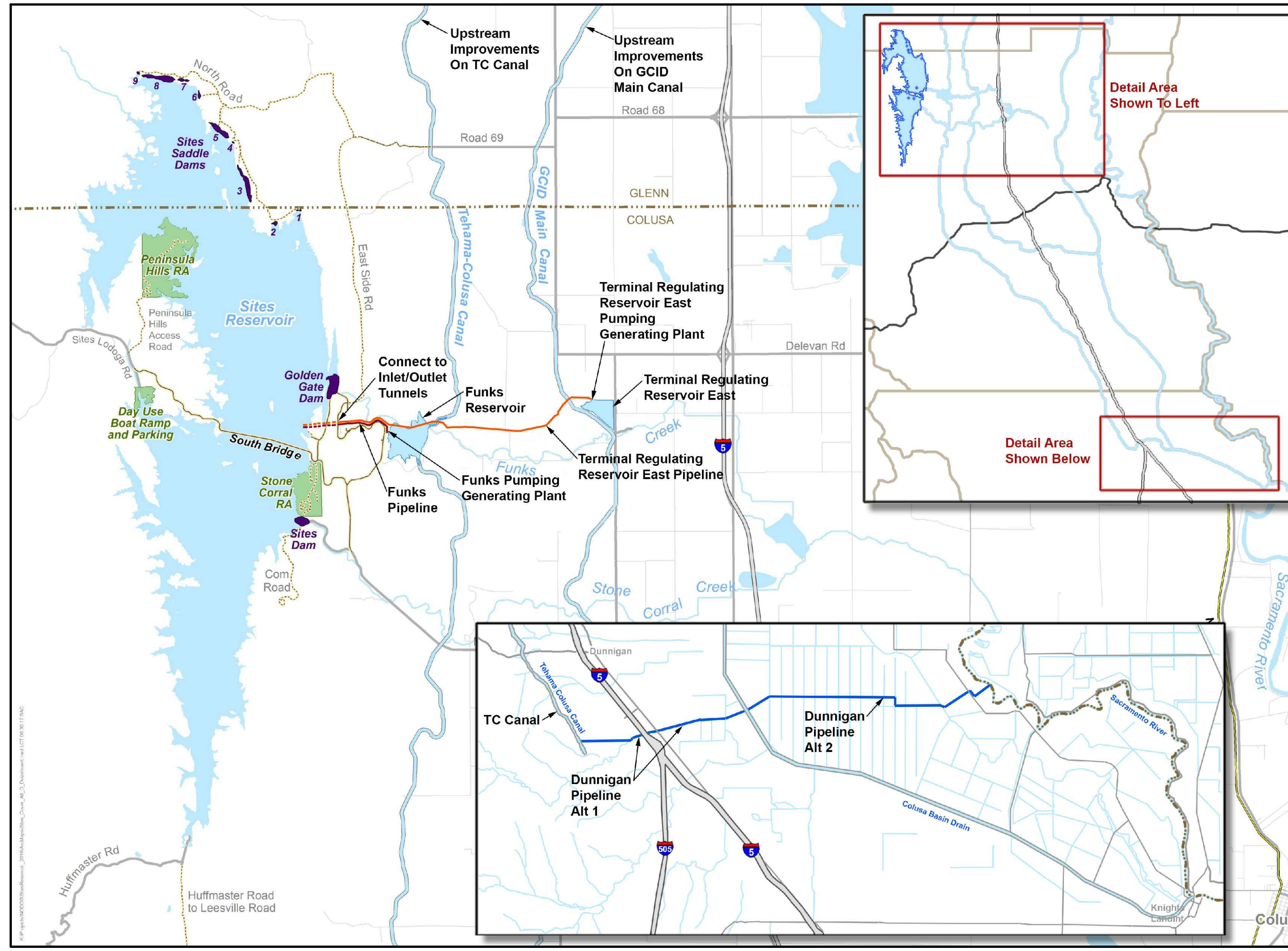
SITES RESERVOIR PROJECT

TASK ORDER 2 – FEASIBILITY STUDY – HC CONVEYANCE FACILITIES

NOVEMBER 9, 2020



PROJECT LOCATION PLAN



PROJECT SITE PLAN

NOTES:

1. THIS SET OF PLANS PRESENTS FEASIBILITY-LEVEL DETAILS FOR THE SITES RESERVOIR PROJECT AND SUPPORTS THE FEASIBILITY COST ESTIMATE.
2. THESE PLANS ARE NOT TO BE USED FOR CONSTRUCTING ANY FACILITY OR COMPONENT REPRESENTED HEREIN.

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

I/R	DATE	BY	CHK	APPR	DESCRIPTION

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DRAWN BY: D CAVE
CHECKED BY: J SMITH
IN CHARGE: P RUDE
DATE: 11-09-2020

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REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2
GENERAL
COVER SHEET, LOCATION MAP, AND VICINITY MAP

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
GEN-001-G-0001

PLOTTED BY:CAVE, DAVID/RDD –November 5, 2020–3:44:42 PM
DRAWING: GEN-001-G-0001_D3380600.dwg
JACOBS PROJECT # D3380600

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99	TRR-050-C-2004	TERMINAL REGULATING RESERVOIR EAST - PIPELINE - PLAN AND PROFILE - STA 160+00 TO 218+00
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104	TRR-110-E-2202	TERMINAL REGULATING RESERVOIR EAST - 230 KV SUBSTATION - TRR SUBSTATION EQUIPMENT PLAN KEY PLAN
105	TRR-110-E-2203	TERMINAL REGULATING RESERVOIR EAST - 230 KV SUBSTATION - TRR SUBSTATION EQUIPMENT PLAN SECTOR 1
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109	TRR-120-C-2102	TERMINAL REGULATING RESERVOIR EAST - GROUND IMPROVEMENT - PLAN
110	TRR-120-C-2401	TERMINAL REGULATING RESERVOIR EAST - RESERVOIR - PLAN
111	TRR-120-C-3401	TERMINAL REGULATING RESERVOIR EAST - RESERVOIR - SECTIONS AND DETAILS
112	TRR-120-C-3402	TERMINAL REGULATING RESERVOIR EAST - STRUCTURES - SECTIONS AND DETAILS
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I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: D CAVE
DRAWN BY: D CAVE
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STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2
GENERAL
INDEX OF DRAWINGS

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
GEN-001-G-0002

PROJECT FEASIBILITY STUDY — NOT FOR CONSTRUCTION

ABBREVIATIONS

A

AB	AGGREGATE BASE
ABN	ABANDON, ABANDONED
ABUT	ABUTMENT
AC	ASPHALT CONCRETE
ACB	ASPHALT CONCRETE BASE
ADJ	ADJUST
ALT	ALTERNATE
APPROX	APPROXIMATE
ARFCD	AMERICAN RIVER FLOOD CONTROL DISTRICT
ARN	ARCADE CREEK NORTH
ARS	ARCADE CREEK SOUTH
ARV	AIR RELEASE VALVE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AVE	AVENUE
AVG	AVERAGE
@	AT

B

BB	BEGINNING OF BRIDGE
B-B	BACK-TO-BACK
BC	BEGIN HORIZONTAL CURVE
BEG	BEGIN
BK	BACK
BKF	BACKFILL
BLDG	BUILDING
BLVD	BOULEVARD
BM	BENCH MARK
BMP	BEST MANAGEMENT PRACTICE
BOT	BOTTOM
BR	BRIDGE
BRG	BEARING
BVC	BEGIN VERTICAL CURVE
BW	BARBED WIRE

C

CB	CEMENT BENTONITE
CBD	COLUSA BASIN DRAIN
C-C	CENTER TO CENTER
CCS	CALIFORNIA COORDINATE SYSTEM
CFS	CUBIC FEET PER SECOND
CHNL	CHANNEL
CIP	CAST-IN-PLACE
℄	CENTERLINE
CL	CENTERLINE / CONTROL LINE
CL-6	CHAIN LINK FENCE (6 FT)
CLS	CLASS
CLR	CLEAR
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CM	CORRUGATED METAL
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CO	COUNTY
CONC	CONCRETE
COND	CONDUIT
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONV	CONVENTIONAL
COORD	COORDINATE
CP	CATCH POINT
CPT	CONE PENETRATION TEST
CR	CREEK
CT	COURT
CTR	CENTER
CUFPB	CENTRAL VALLEY FLOOD PROTECTION BOARD
CULV	CULVERT
CVHS	CENTRAL VALLEY HYDROLOGY STUDY

D

D	DEPTH
DBL	DOUBLE
D.O.T.	DEPARTMENT OF TRANSPORTATION
DEG	DEGREE
DIM	DIMENSION
DI	DRAINAGE INLET, DROP INLET

D CONTINUED

DSM	DEEP SOIL MIX
DTL	DETAIL
DWG	DRAWING
DWY	DRIVEWAY
DIA, ø	DIAMETER
DIP	DUCTILE IRON PIPE
DIST	DISTANCE
DNG	DUNNIGAN
DR	DRIVE

E

E	EAST, EASTING
EA	EACH
EB	END OF BRIDGE
EC	END HORIZONTAL CURVE
ECR	END CURB RETURN
E.F.	EACH FACE
EG	EXISTING GRADE
ELECT	ELECTRIC
ELEV, EL	ELEVATION
ELV	ELECTRIC VAULT
EMB	EMBANKMENT
ENGR	ENGINEER
EOD	EDGE OF DECK
ESA	ENVIRONMENTALLY SENSITIVE AREA
EQ	EQUAL
EVC	END VERTICAL CURVE
E.W.	EACH WAY
EXC	EXCAVATION
EXIST,(E)	EXISTING

F

FG	FINISHED GRADE
FIG	FIGURE
FL	FLOW LINE
FO	FIBER OPTIC
FNK	FUNKS
FT	FEET, FOOT

G

G	NATURAL GAS
GALV	GALVANIZED
GB	GRADE BREAK
GCID	GLEN COUNTY IRRIGATION DISTRICT
GND	GROUND

H

H	HEIGHT
HORIZ, HOR	HORIZONTAL
HP	HINGE POINT, HIGH POINT
HW	HEADWALL, HIGH WATER
HWM	HIGH WATER MARK
HWY	HIGHWAY

I

I-80	INTERSTATE 80
IB	IMPORTED BORROW
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH, INCHES
INV	INVERT
IP	IRON PIN
IR	IRRIGATION

L

L	LENGTH
LF	LINEAR FOOT (FEET)
LOL	LAYOUT LINE
LS	LANDSIDE
LR	LONG RADIUS
LT	LEFT

M

MAINT	MAINTENANCE
MAX	MAXIMUM
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM

M - CONT

MISC	MISCELLANEOUS
MON	MONUMENT
MW	MONITORING WELL
MOD	MODIFIED, MODIFY
MUTD	MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES

N

N	NORTH
N/A	NOT APPLICABLE
NAD83	NORTH AMERICAN DATUM OF 1983
NAS	NORTH AREA STREAMS
NAVD88	NORTH AMERICAN VERTICAL DATUM OF 1988
NEMDC	NATOMAS EAST MAIN DRAINAGE CANAL
NGS	NATIONAL GEODETIC SURVEY
NGVD	NATIONAL GEODETIC VERTICAL DATUM
NO.	NUMBER (MUST HAVE PERIOD)
NTS	NOT TO SCALE

O

OC	ON CENTER(S)
OD	OUTSIDE DIAMETER
OG	ORIGINAL GROUND
OH	OVERHEAD
OHW	OVERHEAD WIRE
OHWM	ORDINARY HIGH WATER MARK
O-O	OUT TO OUT
OPP	OPPOSITE
OPT	ONE PASS TRENCH METHOD
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

P

PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE
PCVC	POINT OF COMPOUND VERTICAL CURVE
PE	PERMANENT EASEMENT
PG&E	PACIFIC GAS & ELECTRIC CO.
PH	PILOT HOLE
PI	POINT OF INTERSECTION
POB	POINT OF BEGINNING
POE	POINT OF ENDING
PS	PUMP STATION
PG	PROFILE GRADE
PI	POINT OF INTERSECTION
PL,P/L	PROPERTY LINE
POC	POINT OF HORIZONTAL CURVE
POT	POINT OF TANGENT
POVC	POINT OF VERTICAL CURVE
PP	POWER POLE
PRC	POINT OF REVERSE CURVE
PRVC	POINT OF REVERSE VERTICAL CURVE
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES
PT	POINT OF TANGENCY
PVMT	PAVEMENT
PWS	PIPELINE WARNING SIGN

R

R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
REL	RELOCATE
REPL	REPLACEMENT
RET	RETAINING
REV	REVISED, REVISION
RDY	ROADWAY
RM	RIVER MILE
RP	RADIUS POINT
RR	RAILROAD
RSP	ROCK SLOPE PROTECTION
RT	RIGHT
RTE	ROUTE
RW	RELIEF WELL
R/W, ROW	RIGHT-OF-WAY

S

SAFCA	SACRAMENTO AREA FLOOD CONTROL AGENCY
SB	SOIL BENTONITE
SBF	SOUTH BAY FOUNDRY
SCB	SOIL-CEMENT-BENTONITE
SCCB	SLAG CEMENT-CEMENT-BENTONITE
SCH	SCHEDULE
SD	STORM DRAIN

S CONTINUED

SECT	SECTION
SHT	SHEET
SL	SLOPE
SPEC	SPECIAL, SPECIFICATIONS
SS	SANITARY SEWER
ST	STREET
STA	STATION
STD	STANDARD
SWPPP	STORM WATER POLLUTION PREVENTION PLAN
SWR	SEWER
SYM	SYMBOL

T

TAN	TANGENT
TCC	TEHAMA COLUSA CANAL
TCE	TEMPORARY CONSTRUCTION EASEMENT
TCP	TRAFFIC CONTROL PLAN
TEMP	TEMPORARY
TG	TOP OF GRADE
THW	TOP OF HEADWALL
TOL	TOP OF LEVEE
TOP	TOP OF PIPE
TOPO	TOPOGRAPHY
TOS	TOP OF SLOPE
TOT	TOTAL
TP	TELEPHONE POLE
TRANS	TRANSITION
TRR	TERMINAL REGULATING RESERVOIR
TYP	TYPICAL

U

ULDC CRITERIA	URBAN LEVEE DESIGN
UG	UNDERGROUND UTILITY
U.P.R.R.	UNION PACIFIC RAILROAD
USACE	U.S. ARMY CORPS OF ENGINEERS
UTIL	UTILITY

V

VAR	VARIES
VC	VERTICAL CURVE
VERT	VERTICAL
VOL	VOLUME
VSD	VARIABLE SPEED DRIVE

W

W	WEST, WATER
WD	WIDTH
WM	WATER METER
WY	WAY
W/	WITH
W/OUT	WITHOUT
WS	WATER SURFACE
WSE/WSEL	WATER SURFACE ELEVATION
WS	WATER SURFACE
WSD	WATER SIDE
WSP	WELDED STEEL PIPE
WV	WATER VALVE
WWF	WELDED WIRE FABRIC

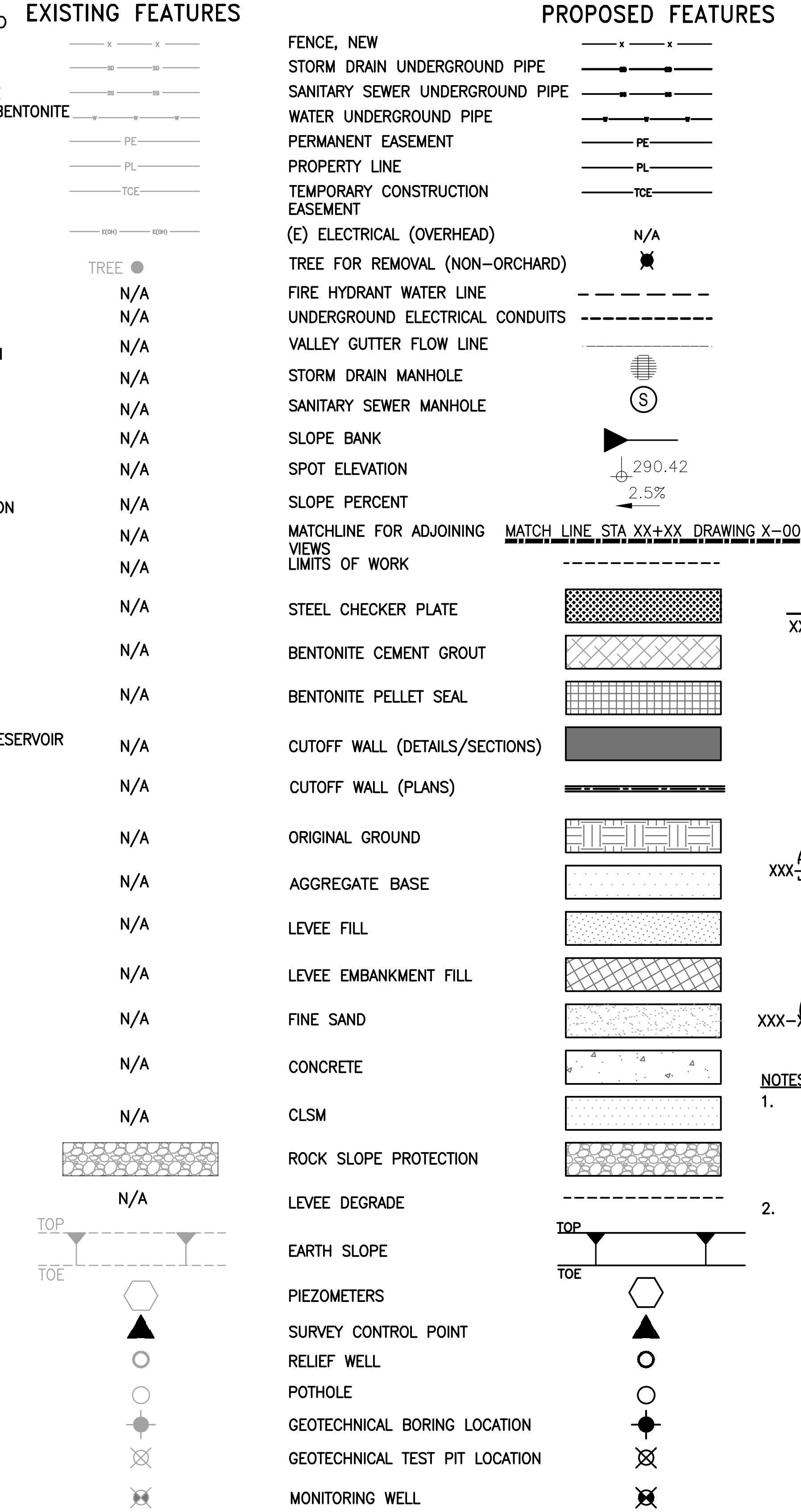
X

XSEC	CROSS SECTION

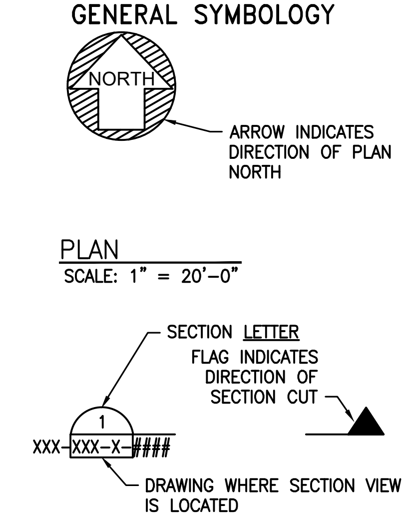
Y

YR	YEAR YRS YEARS

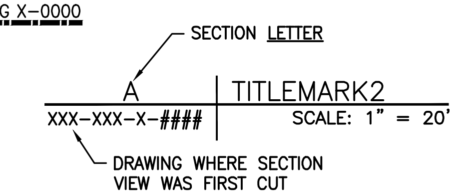
LEGEND AND SYMBOLS



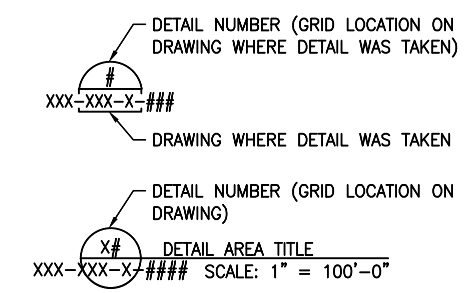
GENERAL SYMBOLOGY



SECTION CUT MARKER



DETAIL MARKER



NOTES:

1. THIS SHEET APPLIES TO THE ENTIRE SET OF DRAWINGS. THIS IS A STANDARD DRAWING SHOWING ABBREVIATIONS AND SYMBOLOGY. ALL ABBREVIATIONS AND SYMBOLOGY ARE NOT NECESSARILY USED ON THIS PROJECT.
2. SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS OR TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH DRAWING FOR USAGE.

PROJECT FEASIBILITY STUDY — NOT FOR CONSTRUCTION

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: D CAVE
DRAWN BY: D CAVE
CHECKED BY: J SMITH
IN CHARGE: P RUDE
DATE: 11-09-2020

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REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2
GENERAL
ABBREVIATIONS, CIVIL LEGEND AND GENERAL SYMBOLS

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
GEN-001-G-0003

PLOTTED BY:CAVE, DAVID/RDD -November 5, 2020-3:44:42 PM
DRAWING: GEN-001-G-0003_D3380600.dwg
JACOBS PROJECT # D3380600

ONE-LINE DIAGRAM

SYMBOL	DESCRIPTION
	DRAWOUT AIR CIRCUIT BREAKER, LOW VOLTAGE
400	CIRCUIT BREAKER, THERMAL MAGNETIC TRIP SHOWN, 3 POLE, UNO
AS/AF or AT/AF	CIRCUIT BREAKER, STATIC TRIP UNIT, SENSOR AMP TRIP AND FRAME RATINGS SHOWN, 3 POLE, UNO
100/M	CIRCUIT BREAKER, MAGNETIC TRIP ONLY, TRIP RATING SHOWN, 3 POLE, UNO
400 400	CIRCUIT BREAKER WITH CURRENT LIMITING FUSES, TRIP AND FUSE RATING INDICATED, 3 POLE, UNO
400 225	FUSED SWITCH, SWITCH AND FUSE CURRENT RATING INDICATED, 3 POLE, UNO
100	SWITCH, CURRENT RATING INDICATED, 3 POLE, UNO
60 (3)	FUSE, CURRENT RATING AND QUANTITY INDICATED
1	MAGNETIC STARTER WITH OVERLOAD, NEMA SIZE INDICATED, FVNR UNO
VSD	ELECTRONIC STARTER/SPEED CONTROL RVSS = REDUCED VOLTAGE SOFT STARTER VSD = AC VARIABLE SPEED DRIVE DC = DC VARIABLE SPEED DRIVE RVAT = REDUCED VOLTAGE AUTO TRANSFORMER TYPE RVRT = REDUCED VOLTAGE REACTOR TYPE
	CABLE OR BUS CONNECTION POINT
Kx	KEY INTERLOCK x = KEY NUMBER
	SURGE ARRESTER (GAP TYPE)
	SURGE ARRESTER (METAL OXIDE VARISTER TYPE)
10	CAPACITOR – KVAR INDICATED, 3 PHASE
3	AC MOTOR, SQUIRREL CAGE INDUCTION – HORSEPOWER INDICATED
500/625	GENERATOR, KW/KVA RATING SHOWN
VS V 0–600V	ANALOG METER WITH SWITCH – SCALE RANGE SHOWN V = VOLTAGE KW = KILOWATTS A = AMPERAGE KVAR = KILOVARS PF = POWER FACTOR
DPM	DIGITAL POWER METER (MULTIFUNCTION)
	UTILITY REVENUE METER
	GROUND
15 KVA 480–120/240V 1 PH	TRANSFORMER, SIZE, VOLTAGE RATINGS, AND PHASE INDICATED
	SHIELDED ISOLATION TRANSFORMER

SYMBOL	DESCRIPTION
52	DRAWOUT POWER CIRCUIT BREAKER, MEDIUM VOLTAGE
	NON DRAWOUT FUSED SWITCH, MEDIUM VOLTAGE
	DRAWOUT FUSED SWITCH AND CONTACTOR, MEDIUM VOLTAGE
	DRAWOUT FUSED SWITCH AND VACUUM CONTACTOR, MEDIUM VOLTAGE
	DRAWOUT VACUUM CONTACTOR, MEDIUM VOLTAGE
	MEDIUM VOLTAGE CABLE STRESS CONE TYPE TERMINATION, OPEN TERMINATOR OR ELBOW
	SWITCH – LOAD BREAK, GROUP OPERATED, MEDIUM VOLTAGE
	SWITCH W/ARCING HORNS, MEDIUM VOLTAGE
	DISCONNECTING FUSE – SOLID MATERIAL, MEDIUM VOLTAGE
	SWITCH – HOOK STICK OPERATED, SINGLE POLE, MEDIUM VOLTAGE
	FUSE – EXPULSION, HOOK STICK OPERATED, SINGLE POLE, MEDIUM VOLTAGE
	GROUND SWITCH, GANG OPERATED
	TERMINAL BLOCK LUG
	DELTA CONNECTION
	WYE GROUNDED CONNECTION, SOLID GROUND
R or Z	WYE NEUTRAL GROUND RESISTOR OR IMPEDANCE CONNECTION
86 OR 52CS	RELAY OR DEVICE, FUNCTION NUMBER AS INDICATED
50:5 (1)	CURRENT TRANSFORMER, ZERO SEQUENCE, RATIO AND QUANTITY INDICATED
800/1200:5 (3)	BUSHING CURRENT TRANSFORMER, MULTI-RATIO AND QUANTITY INDICATED
MO	MOTOR OPERATOR, BREAKER OR SWITCH
MPR	MULTI-FUNCTION DIGITAL RELAY MPR = MOTOR PROTECTION RELAY FMR = FEEDER MANAGEMENT RELAY MMR = MAIN MANAGEMENT RELAY GPR = GENERATOR PROTECTIVE RELAY TPR = TRANSFORMER PROTECTIVE RELAY
480–120V (3)	POTENTIAL TRANSFORMER, VOLTAGE RATING AND QUANTITY INDICATED
100:5 (3)	CURRENT TRANSFORMER, RATIO(100:5) AND QUANTITY INDICATED (3)
	CONNECTION POINT TO EQUIPMENT SPECIFIED IN OTHER DIVISIONS. RACEWAY, CONDUCTOR AND CONNECTION IN THIS DIVISION
SPD	SURGE PROTECTIVE DEVICE
NDT	NEUTRAL DERIVING TRANSFORMER

CONTROL DIAGRAM

SYMBOL	DESCRIPTION
	PUSH-BUTTON SWITCH, MOMENTARY CONTACT, NORMALLY OPEN
	PUSH-BUTTON SWITCH, MOMENTARY CONTACT, NORMALLY CLOSED
	PUSH BUTTON SWITCH, MAINTAINED CONTACTS WITH MECHANICAL INTERLOCK
	3 POSITION SELECTOR SWITCH MAINTAINED CONTACT
HAND OFF REMOTE	SELECTOR SWITCH – MAINTAINED CONTACT – CHART IDENTIFIES OPERATION WHEN NEEDED FOR CLARITY:
	TOGGLE SWITCH, ON-OFF TYPE
ON OFF	SELECTOR SWITCH, ON-OFF TYPE
	MUSHROOM HEAD PUSHBUTTON SWITCH
A	INDICATING LIGHT, PUSH-TO-TEST, LETTER INDICATES COLOR
A	INDICATING LIGHT – LETTER INDICATES COLOR A – AMBER G – GREEN S – STROBE B – BLUE R – RED C – CLEAR W – WHITE
ETM	ELAPSED TIME METER
M	MOTOR STARTER CONTACTOR COIL
CRX	CONTROL RELAY, X INDICATES NUMERICAL ORDER IN CIRCUIT
TDR X	TIME DELAY RELAY, X INDICATES NUMERICAL ORDER IN CIRCUIT
SV X	SOLENOID VALVE, X INDICATES NUMERICAL ORDER IN CIRCUIT
	CONTACT – NORMALLY OPEN
	CONTACT – NORMALLY CLOSED
	REMOTE DEVICE
	TIME DELAY RELAY CONTACT, NORMALLY OPEN, CLOSES WHEN ENERGIZED AND TIMED OUT
	TIME DELAY RELAY CONTACT, NORMALLY CLOSED, OPENS WHEN ENERGIZED AND TIMED OUT
	TIME DELAY RELAY CONTACT, CLOSES WHEN ENERGIZED, OPENS WHEN DE-ENERGIZED AND TIMED OUT
	TIME DELAY RELAY CONTACT, OPENS WHEN ENERGIZED, CLOSES WHEN DE-ENERGIZED AND TIMED OUT
	MOTOR SPACE HEATER
	TERMINAL BLOCK, REMOTE
	TERMINAL BLOCK, INTERNAL
	FUSED TERMINAL BLOCK
	FUSE, RATING INDICATED
CPT 120V	TRANSFORMER, CONTROL POWER
	THERMOCOUPLE

	POSITION		
CKT	HAND	OFF	REMOTE
1	X	O	O
2	O	O	X

X – CLOSED CONTACT
O – OPEN CONTACT

SYMBOL	DESCRIPTION
	CAPACITOR
+ –	BATTERY
	LIMIT SWITCH, NORMALLY OPEN, CLOSES AT END OF TRAVEL
	LIMIT SWITCH, NORMALLY CLOSED, OPENS AT END OF TRAVEL
	TEMPERATURE SWITCH, OPENS ON TEMPERATURE RISE
	TEMPERATURE SWITCH, CLOSES ON TEMPERATURE RISE
	FLOAT SWITCH, NORMALLY OPEN, CLOSES ON DESCENDING LEVEL
	FLOAT SWITCH, NORMALLY OPEN, CLOSES ON RISING LEVEL
	PRESSURE SWITCH, NORMALLY CLOSED, OPENS ON RISING PRESSURE
	PRESSURE SWITCH, NORMALLY OPEN, CLOSES ON RISING PRESSURE
	FLOW SWITCH, CLOSES ON INCREASED FLOW
	FLOW SWITCH, OPENS ON INCREASED FLOW
NGR	NEUTRAL GROUND CURRENT LIMITING RESISTOR
RES	CALIBRATING RESISTOR
T GEN	TACHOMETER GENERATOR
GFS	GROUND FAULT SENSOR
	FLASHER
	SEALED CONTACT
	BUZZER
	POTENTIOMETER
	RESISTOR
	BLOWN FUSE INDICATOR
	COAXIAL CABLE
	MULTICONDUCTOR SHIELDED CABLE
	DUPLEX RECEPTACLE
	RELAY, WITH MECHANICAL LATCH
	FULLWAVE DIODE BRIDGE (AC TO DC)

1. THIS IS A STANDARD LEGEND SHEET. THEREFORE, NOT ALL OF THE INFORMATION SHOWN MAY BE USED ON THIS PROJECT.

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: C CUSWORTH
DRAWN BY: D CAVE
CHECKED BY: J LANDMAN
IN CHARGE: P RUDE
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Sites

SITES RESERVOIR TO 2
GENERAL
ELECTRICAL LEGEND 1

VERIFY SCALES
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0 1"

DRAWING NO.
GEN-001-G-0501

PLOTTED BY:CAVE, DAVID/RDD –November 5, 2020–3:44:42 PM
DRAWING: GEN-001-G-0501_D3380600.dwg
JACOBS PROJECT # D3880600

RELAY FUNCTIONS

XX (XX INDICATES RELAY DESIGNATION:)–

AR=HIGH SPEED SENSITIVE AUXILIARY RELAY
BF=BREAKER FAILURE RELAY
BFI=BREAKER FAILURE INITIATE
21=PHASE DISTANCE
21G=GROUND DISTANCE
24=OVER EXCITATION, GENERATOR VOLTS/HERTZ
25=SYNCHRONIZING OR SYNCHRONISM–CHECK DEVICE
27=UNDER VOLTAGE RELAY
32=DIRECTIONAL POWER (ANTI–MOTORING) RELAY
38=BEARING PROTECTIVE DEVICE
40=FIELD RELAY
42=CONTACTOR
46=REVERSE–PHASE OR PHASE BALANCE CURRENT RELAY
47=PHASE–SEQUENCEVOLTAGE RELAY
49=MACHINE OR TRANSFORMER THERMAL RELAY
50=INSTANTANEOUS OVERCURRENT OR RATE–OF–RISE RELAY
50G=INSTANTANEOUS OVERCURRENT, GROUND
50N=INSTANTANEOUS OVERCURRENT, NEUTRAL
50P=INSTANTANEOUS OVERCURRENT, PHASE
51=AC TIME OVERCURRENT RELAY
51G=AC GROUND OVERCURRENT RELAY
51N=NEUTRAL OVERCURRENT RELAY
51V=AC TIME OVERCURRENT, VOLTAGE RESTRAINED
52=AC CIRCUIT BREAKER
59=OVERVOLTAGE RELAY
60=VOLTAGE BALANCE RELAY
62=TIME DELAY STOPPING OR OPENING RELAY
62/BF=BREAKER FAILURE RELAY
63=LIQUID OR GAS PRESSURE, LEVEL OR FLOW RELAY
64=GROUND DETECTOR RELAY
66=START PER HOUR
67=PHASE DIRECTIONAL OVER CURRENT
67N=GROUND DIRECTIONAL NEUTRAL OVER CURRENT
74=ALARM RELAY
78=OUT OF STEP PROTECTIVE RELAY
81=FREQUENCY RELAY
81O=OVER FREQUENCY RELAY
81U=UNDER FREQUENCY RELAY
86=LOCKOUT RELAY
86BF=LOCKOUT (BREAKER FAILURE)
87=DIFFERENTIAL PROTECTIVE RELAY
87L=LINE DIFFERENTIAL RELAY
87T=TRANSFORMER DIFFERENTIAL RELAY
JBCG= GROUND DIRECTIONAL NEUTRAL OVER CURRENT
TCO=TRIP CUTOUT SWITCH
TIR= TARGET INDICATING RELAY
CCVT=CAPACITOR COUPLED VOLTAGE TRANSFORMER

RELAY DEVICE LIST

DEVICE	MANUFACTURER	TYPE	DESCRIPTION
351A–E	SEL	351S	230KV FEEDER PHASE/RESIDUAL OC, VOLT, BREAKER FAIL AND SYNCH RELAY
87F1–3	SEL	311L	230KV FEEDER LINE DIFFERENTIAL AND BACK–UP DISTANCE RELAY
87B–1	SEL	587Z	230KV BUS HIGH IMPEDANCE DIFFERENTIAL RELAY
421F2/3	SEL	421–2	230KV FEEDER LINE DISTANCE RELAY
411L1A/B	SEL	411L	230KV SOURCE LINE 1 LINE PROTECTION RELAYS
401T2A/B	SEL	T401L	230KV SOURCE LINE 2 LINE ULTRA HIGH SPEED PROTECTION RELAY
87FA/B	SEL	3871L	13.8KV FEEDER DIFFRENTIAL RELAY
86BFA–E	Electroswitch	LOR	230KV BREAKER FAILURE LOCKOUT RELAY, HAND RESEL
86T1–3	Electroswitch	LOR	REMOTE SUBSTATION TRANSFORMER DIFFERENTIAL LOCKOUT RELAY, HAND RESET
SEL2488	SEL	2488	SATELLITE SYNCHRONIZED NETWORK CLOCK
SEL2730M	SEL	2730M	MANAGED 24 PORT ETHERNET SWITCH

LEGEND & ABBREVIATIONS:

Potential Disconnect Switch
Switchboard Ground
Pull–Out Fuse Block @ Switchboard
Test Switch – Potential/Current
TCO Trip Cutout Switch
Circuit Breaker / Switch Designation
Motor Operator

3–600/5
400
(3)

BUSHING TYPE CURRENT TRANSFORMER
WITH RATIO INDICATED. MR INDICATES
MULTI–RATIO CURRENT TRANSFORMER
SR SINGLE RATIO
C400 ACCURACY CLASS
(3) INDICATES QUANTITY

POLYPHASE DELTA/WYE
POWER TRANSFORMER

THREE PHASE WYE CONNECTED
SOLID GROUNDED NEUTRAL

THREE PHASE WYE CONNECTED
WITH NEUTRAL GROUNDING RESISTOR
FOR LOW RESISTANCE GROUND

H2
H1 H3
X2
X1 X3

DELTA/WYE CONNECTION
SHOWING ANGULAR
DISPLACEMENT

H2
H1 H3
X2 Y2
X1 Y1
X3 Y3

3 WINDING TRANSFORMER
DELTA/WYE CONNECTION
SHOWING ANGULAR
DISPLACEMENT

GROUNDING TRANSFORMER

POWER BUS OR FEEDER CABLE
(SOLID ARROW IF SHOWN INDICATES
STRESS CONE CONNECTIONS)

SIGNAL OR FUNCTIONAL INTERFACE BETWEEN DEVICES
(ARROW INDICATES DIRECTION OF SIGNAL)

CURRENT TRANSFORMER TEST SWITCH
TERMINAL BLOCK SHORTENING TYPE

VOLTAGE TRANSFORMER TEST SWITCH

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: S WEGIEL
DRAWN BY: A RASHEED
CHECKED BY: S WEGIEL
IN CHARGE: P RUDE
DATE: 11-09-2020

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VANDERWEIL POWER GROUP

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2
GENERAL
ELECTRICAL LEGEND 2

VERIFY SCALES
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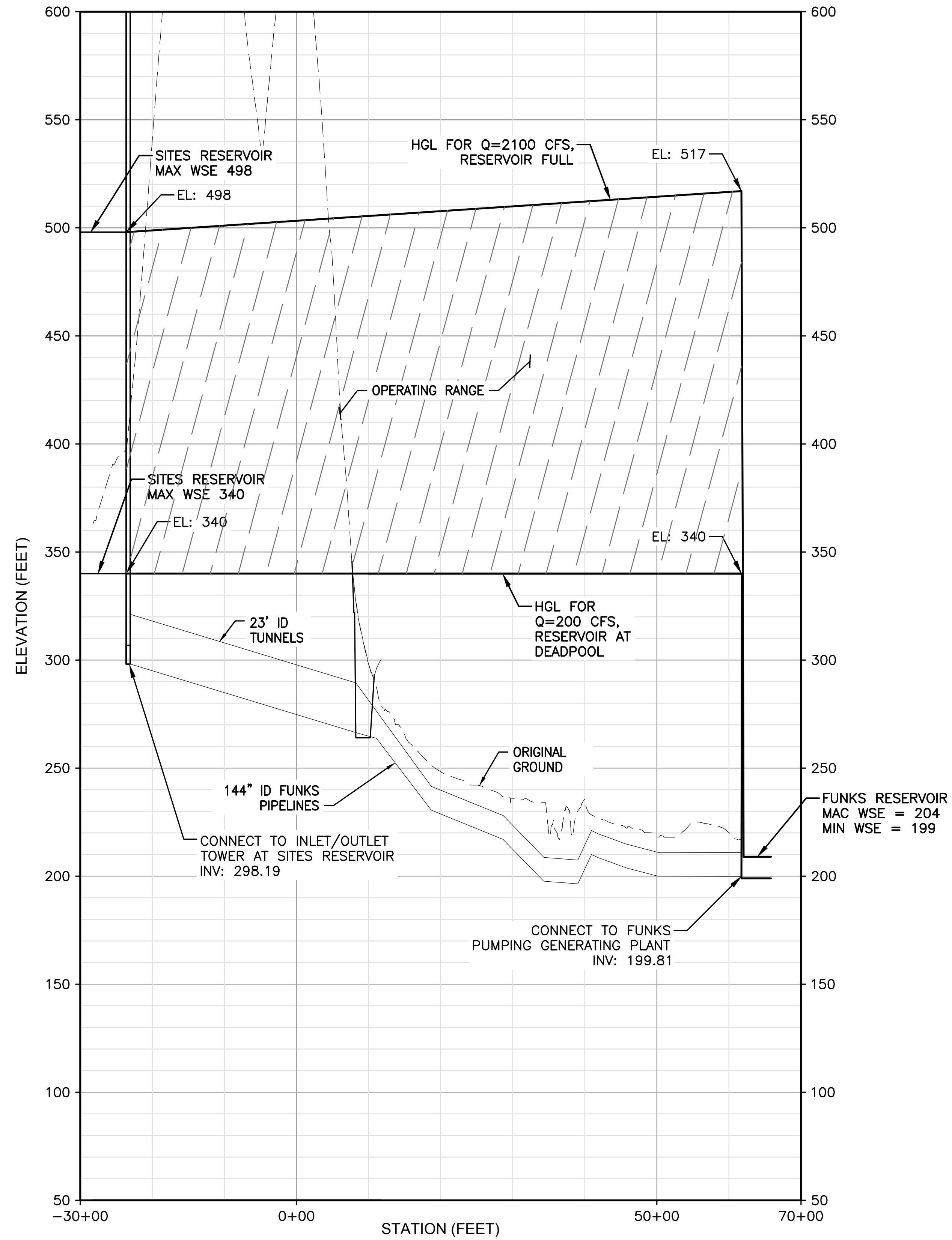
0 1"

DRAWING NO.
GEN-001-G-0502

PLOTTED BY:CASSELL, CHRISTOPHER –November 6, 2020–3:44:42 PM
DRAWING: GEN-001-G-0502_D3380600.dwg
JACOBS PROJECT # D3380600



HYDRAULIC PROFILE – FUNKS

HORIZ SCALE: 1" = 1000'
VERT SCALE: 1" = 20'

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: B CHELONIS
DRAWN BY: B CHELONIS
CHECKED BY: J SMITH
IN CHARGE: P RUDE
DATE: 10-23-2020

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STATE OF CALIFORNIA

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HYDRAULIC PROFILE
FUNKS

VERIFY SCALES
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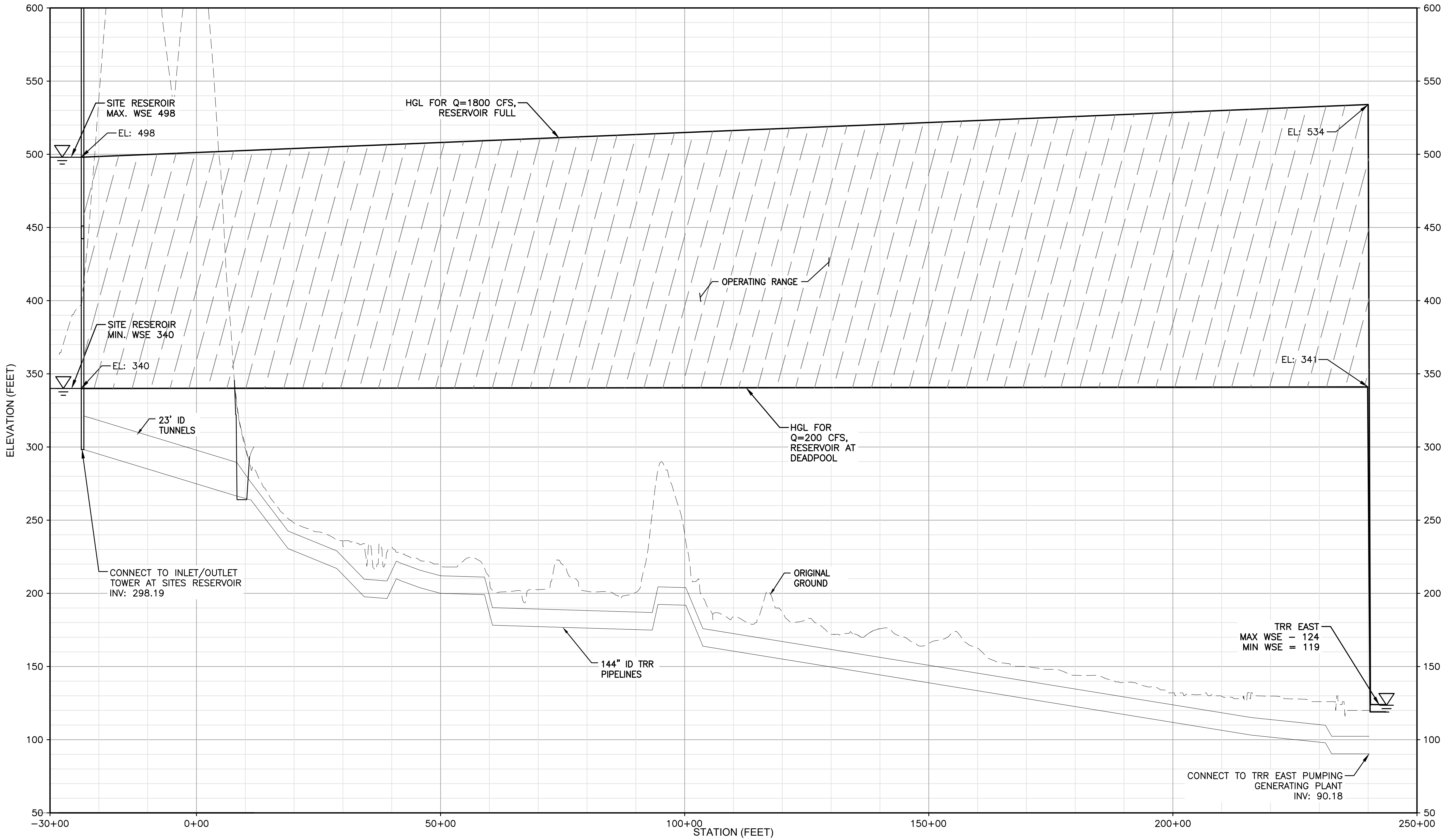
DRAWING NO.
GEN-001-G-8001

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION



HYDRAULIC PROFILE – TRR
HORIZ SCALE: 1" = 1000'
VERT SCALE: 1" = 20'

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY:	B CHELONIS
DRAWN BY:	J MILLER
CHECKED BY:	J SMITH
IN CHARGE:	P RUDE
DATE:	11-09-2020

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REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2
GENERAL
HYDRAULIC PROFILE
TRR EAST

VERIFY SCALES
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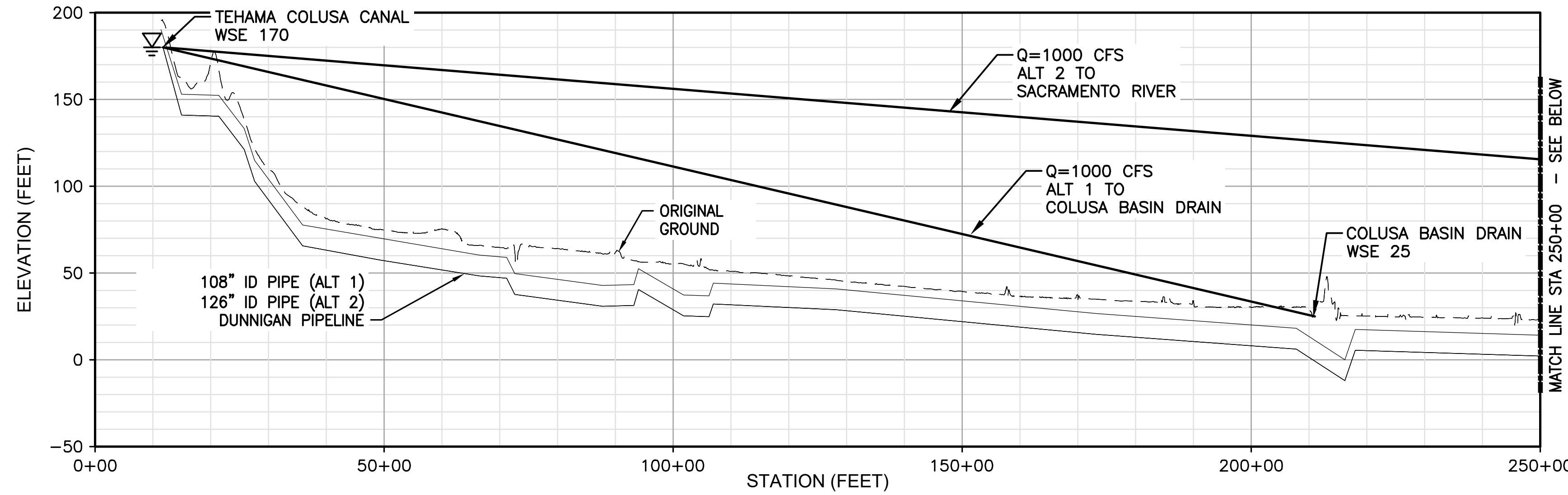
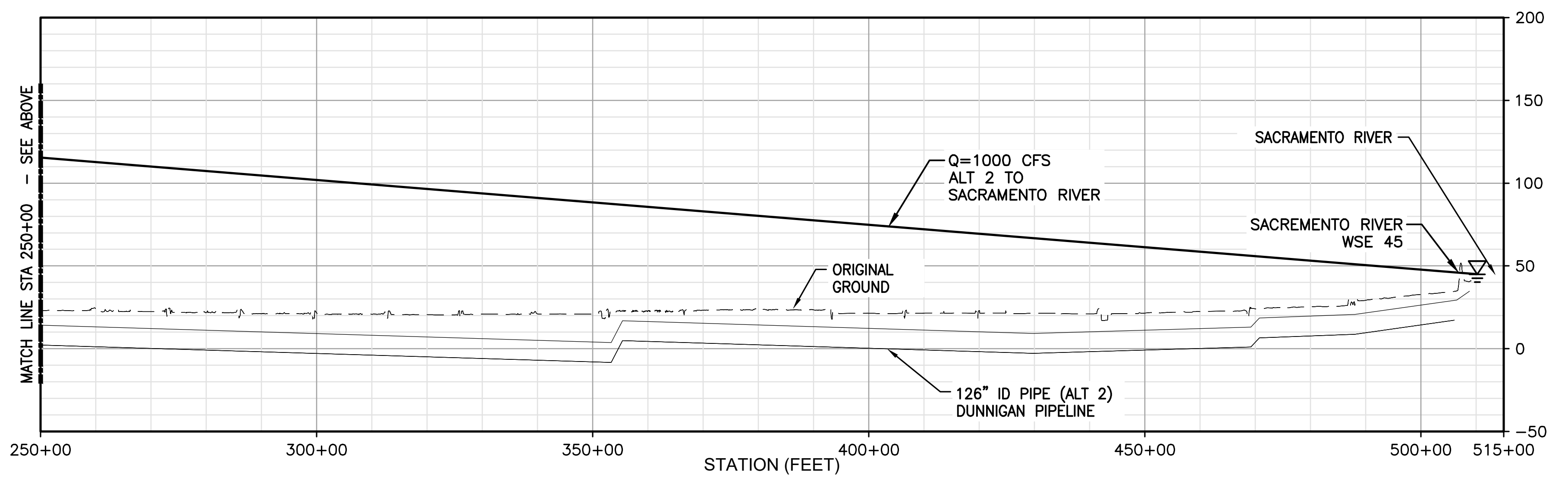
0 1"

DRAWING NO.
GEN-001-G-8002

PLOTTED BY:CAVE, DAVID/RDD –November 7, 2020–3:44:42 PM
DRAWING: GEN-001-G-8002_D3380600.dwg
JACOBS PROJECT # D3380600

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION





HYDRAULIC PROFILE – DUNNIGAN

HORIZ SCALE: 1" = 1500'
VERT SCALE: 1" = 30'

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: B CHELONIS
DRAWN BY: J MILLER
CHECKED BY: J SMITH
IN CHARGE: P RUDE
DATE: 11-09-2020

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REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2
GENERAL
HYDRAULIC PROFILE
DUNNIGAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

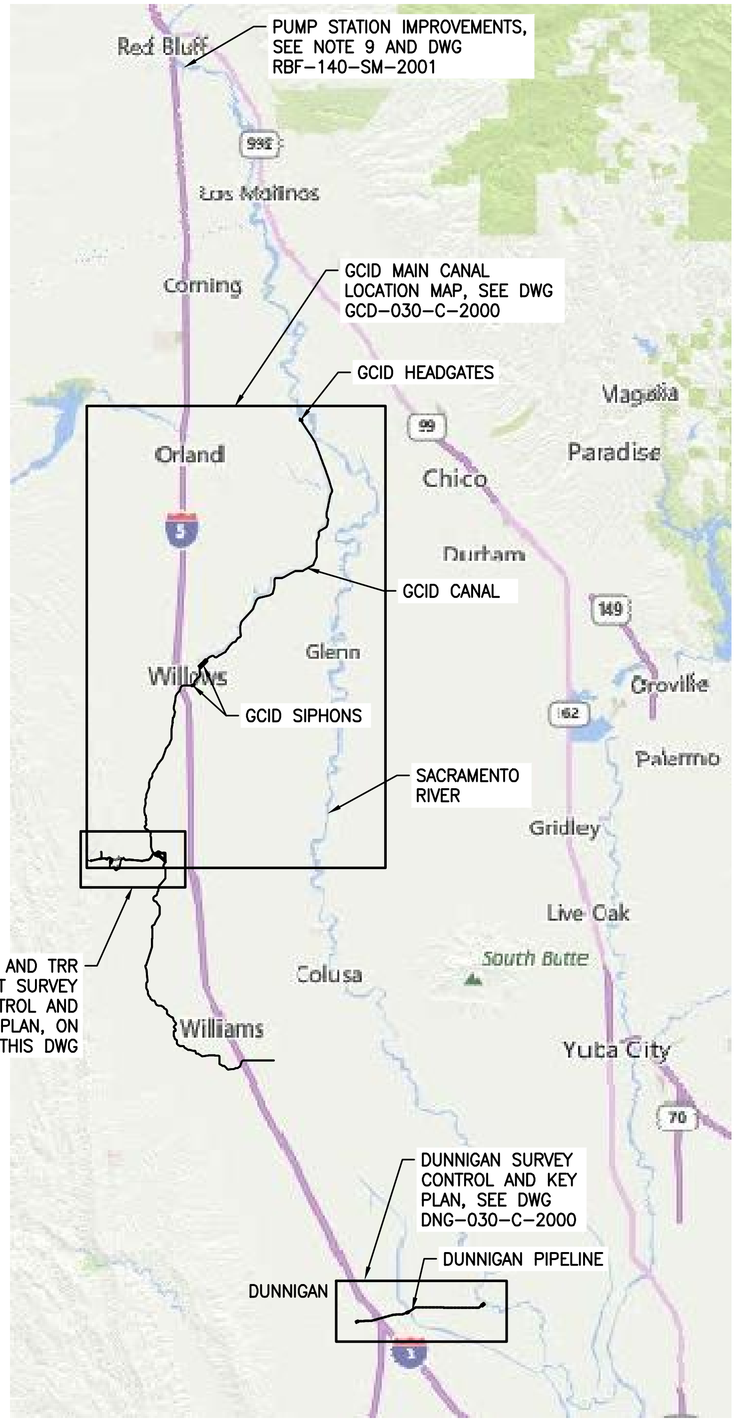
DRAWING NO.
GEN-001-G-8003

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:CHELONIS, BECKY/RDD –November 9, 2020–3:44:42 PM
DRAWING: GEN-001-G-8003_D3380600.dwg
JACOBS PROJECT # D3880600

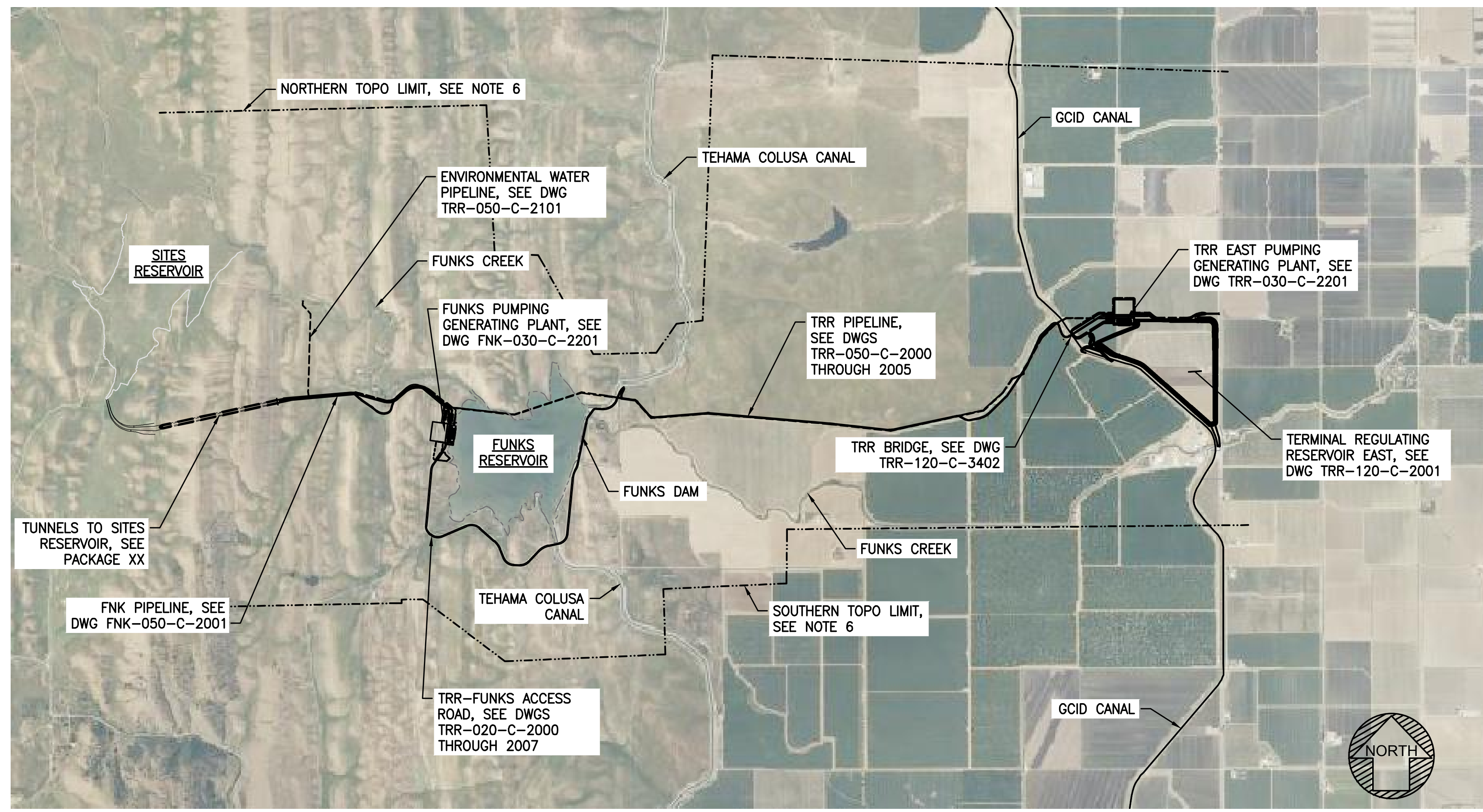
SURVEY AND MAPPING NOTES

1. FOR SURVEY CONTROL FOR DUNNIGAN PIPELINE, SEE DWG DNG-030-C-2000.
2. SOURCE OF PHOTOGRAPHY: APPROXIMATE GEOLOCATED AERIAL IMAGERY COPYRIGHT 2020 MICROSOFT CORPORATION, 2020 MAXAR, CNES (2020) DISTRIBUTION AIRBUSDS, BING.
3. HORIZONTAL DATUM: CA STATE PLANE COORDINATE SYSTEM (2011), ZONE 2, US SURVEY FEET.
4. VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88), FEET.
5. SOURCE OF TOPOGRAPHY: CONTOUR FILES WERE PROVIDED BY THE BUREAU OF RECLAMATION (BOR), AND WERE USED IN PREVIOUS FEASIBILITY STUDIES. COMPARISON TO SUPPLEMENTAL TOPOGRAPHY AND AS-BUILT FUNKS DAM DRAWINGS WAS DONE TO DETERMINE VERTICAL DATUM, WHICH APPEARS TO BE NAVD88, BUT THAT HAS NOT BEEN CONFIRMED BY BOR.
6. SOURCE OF SUPPLEMENTAL TOPOGRAPHY, NORTH OF THE NORTHERN LIMIT AND SOUTH OF THE SOUTHERN LIMIT SHOWN IN PLAN: LIDAR DATA FLOWN FOR THE NORTHERN CALIFORNIA WILD FIRES IN THE SUMMER OF 2019, CONVERTED TO PROJECT DATUM FROM NAD 1983 2011 CONTIGUOUS USA ALBERS, IN METERS.
7. SOURCE OF BATHYMETRY IN FUNKS RESERVOIR: R.E.Y. ENGINEERS, INC. CONDUCTED THE BATHYMETRIC SURVEY IN SEPTEMBER OF 2020. DATA COLLECTION WAS BY EXTENDED RANGE-POLE WITH GPS RTK ROVER FROM A RAFT. DENSE VEGETATION IN THE RESERVOIR PREVENTED USE OF SONAR.
8. CONTOUR INTERVAL: 2-FOOT CONTOURS.
9. RED BLUFF PUMPING PLANT AS-BUILT DRAWINGS ARE BASED ON HORIZONTAL DATUM: CALIFORNIA STATE PLANE, ZONE 1, NORTH AMERICAN DATUM OF 1983, 2007 EPOCH, SURVEY FEET AND VERTICAL DATUM: NAVD88.



NORTH

OVERALL LOCATION PLAN
NTS



0 2000' 4000'

FUNKS AND TRR EAST SURVEY CONTROL AND KEY PLAN
SCALE: 1" = 2000'

PROJECT FEASIBILITY STUDY — NOT FOR CONSTRUCTION

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: B CHELONIS
DRAWN BY: B CHELONIS
CHECKED BY: J SMITH
IN CHARGE: P RUDE
DATE: 11-09-2020

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REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

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OVERALL LOCATION AND
SURVEY CONTROL PLAN

VERIFY SCALES
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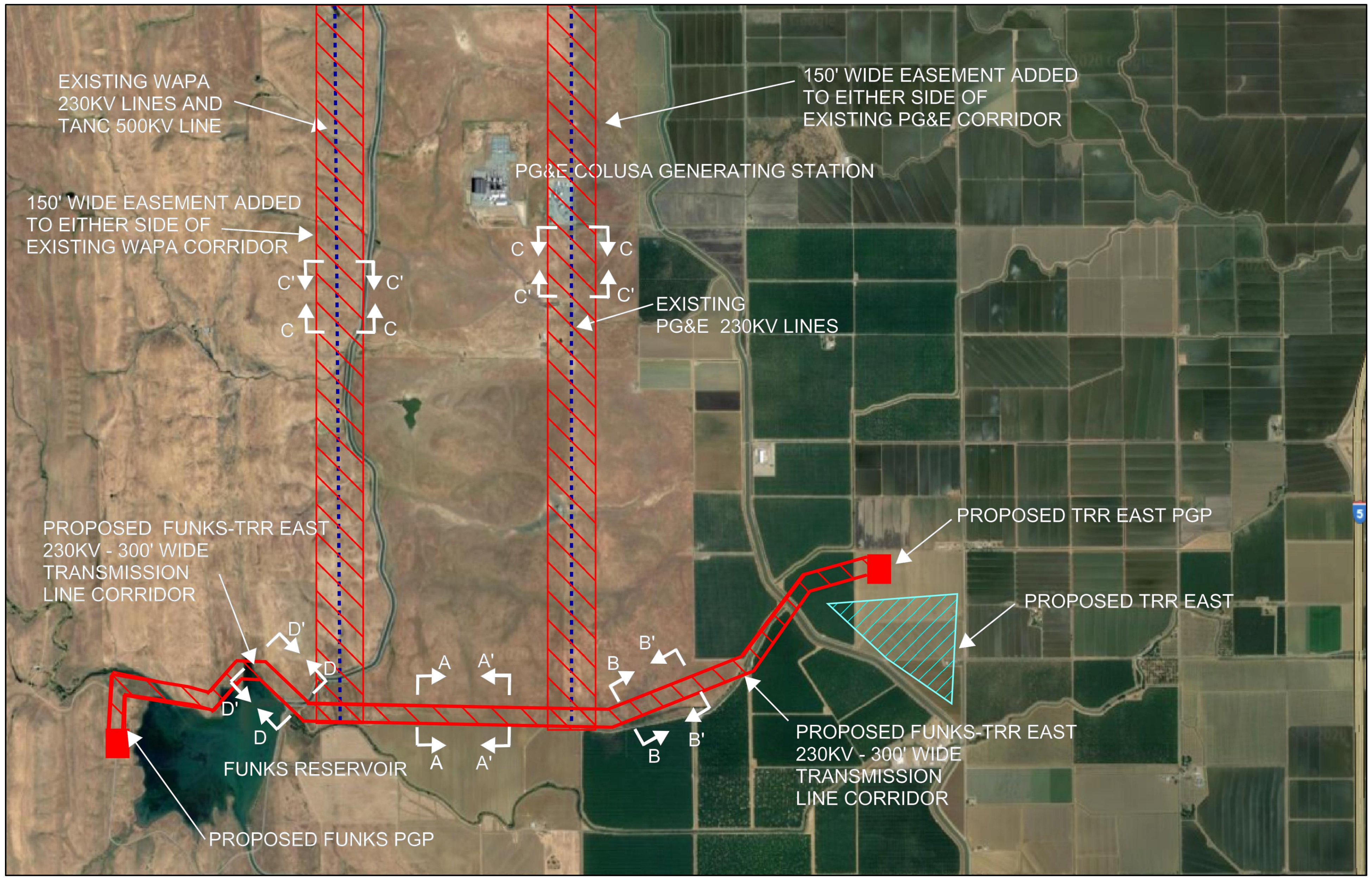
0 1"

DRAWING NO.
GEN-030-C-2001

PLOTTED BY:CHELONIS, BECKY/RDD -November 6, 2020-3:44:42 PM
DRAWING: GEN-030-C-2001_D3380600.dwg
JACOBS PROJECT # D3380600



PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:CASSELL, CHRISTOPHER –November 6, 2020–3:44:42 PM
DRAWING: GEN-100-E-2201_D3380600.dwg
JACOBS PROJECT # D3880600

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: G PEPI
DRAWN BY: C CASSELL
CHECKED BY: G PEPI
IN CHARGE: P RUDE
DATE: 11-09-2020

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VANDERWEIL POWER GROUP

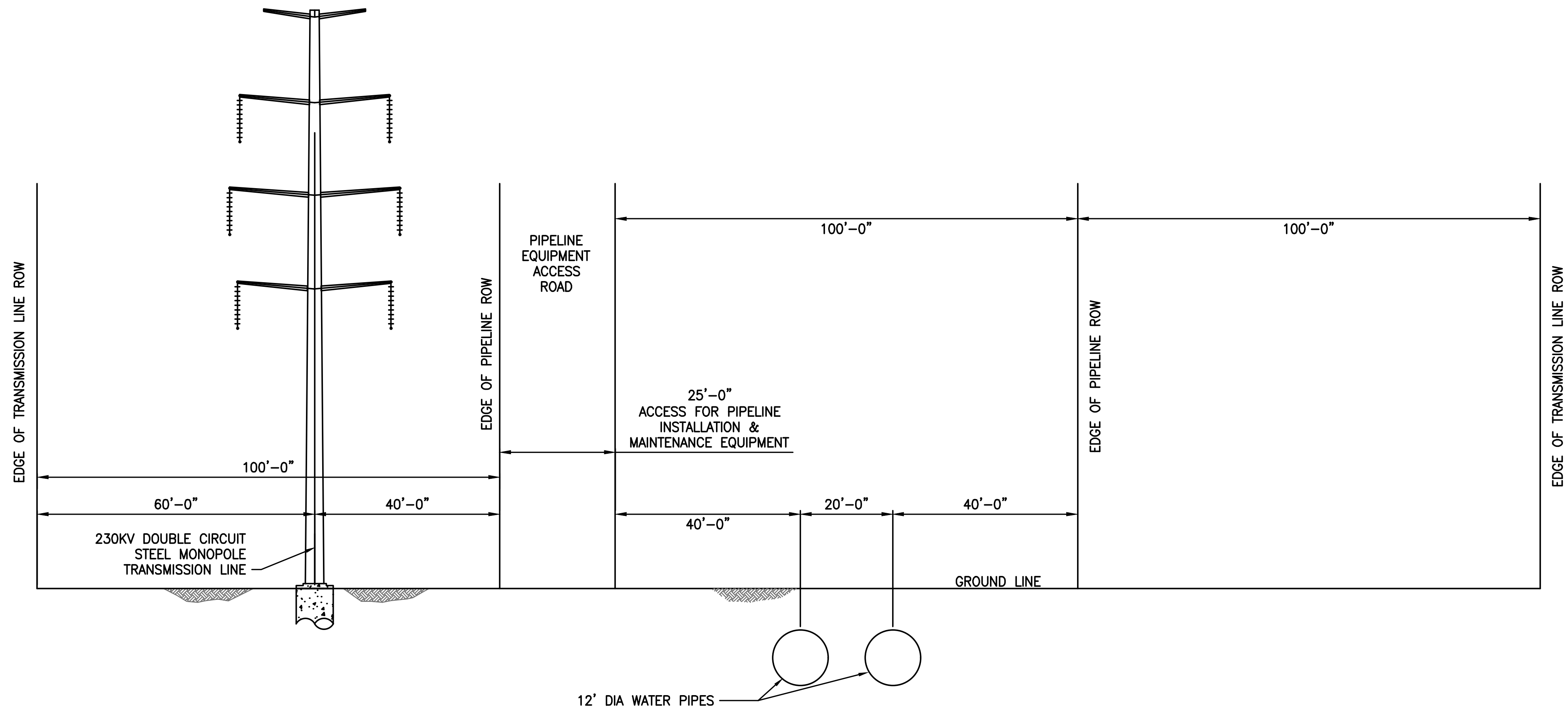
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2
GENERAL TRANSMISSION LINE
POINT OF INTERCONNECTION 230kV
FUNKS TO TERMINAL REGULATING RESERVIOR EAST

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
GEN-100-E-2201



SECTION A–A
SECTION A'–A' (ALTERNATE)
PG&E OPTION ALONG PIPELINE ROW
BETWEEN WAPA AND PG&E EXISTING CORRIDORS

SCALE
HORIZ SCALE: 1/16" = 1' –0"
VERT SCALE: 1/16" = 1' –0"

PROJECT FEASIBILITY STUDY — NOT FOR CONSTRUCTION

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: G PEPI
DRAWN BY: C CASSELL
CHECKED BY: G PEPI
IN CHARGE: P RUDE
DATE: 11-09-2020

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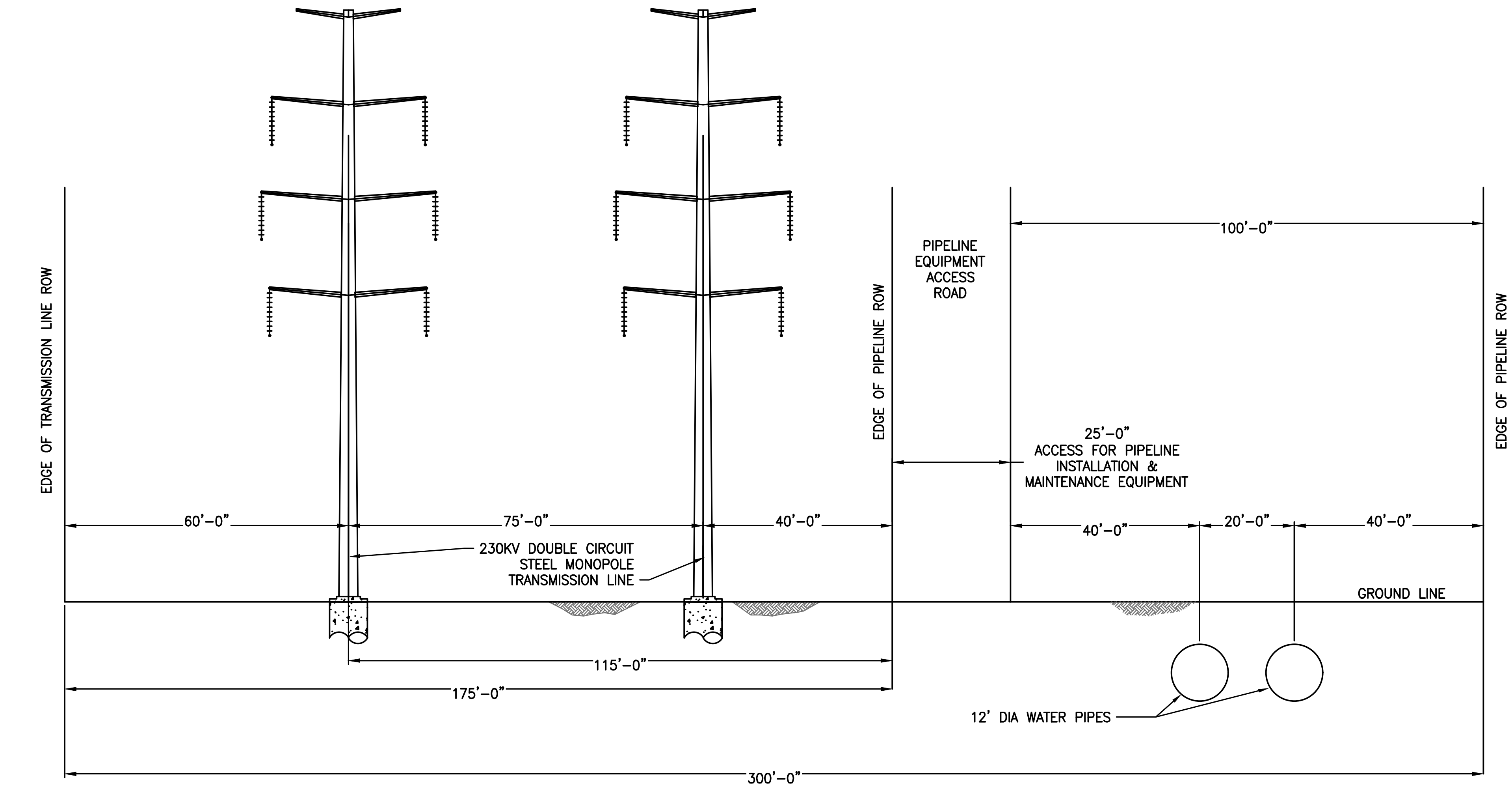
Sites

SITES RESERVOIR TO 2
GENERAL TRANSMISSION LINE
PG&E OPTION SECTION A–A

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
GEN-100-E-3201

PLOTTED BY:CASSELL, CHRISTOPHER –November 6, 2020–3:44:42 PM
DRAWING: GEN-100-E-3201_D3380600.dwg
JACOBS PROJECT # D3880600



SECTION B-B
SECTION B'-B' (ALTERNATE)
PG&E ALTERNATE OPTION ALONG PIPELINE ROW
BETWEEN PG&E CORRIDOR AND TRR EAST

SCALE
HORIZ SCALE: 1/16" = 1'-0"
VERT SCALE: 1/16" = 1'-0"

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: G PEPI
DRAWN BY: C CASSELL
CHECKED BY: G PEPI
IN CHARGE: P RUDE
DATE: 11-09-2020

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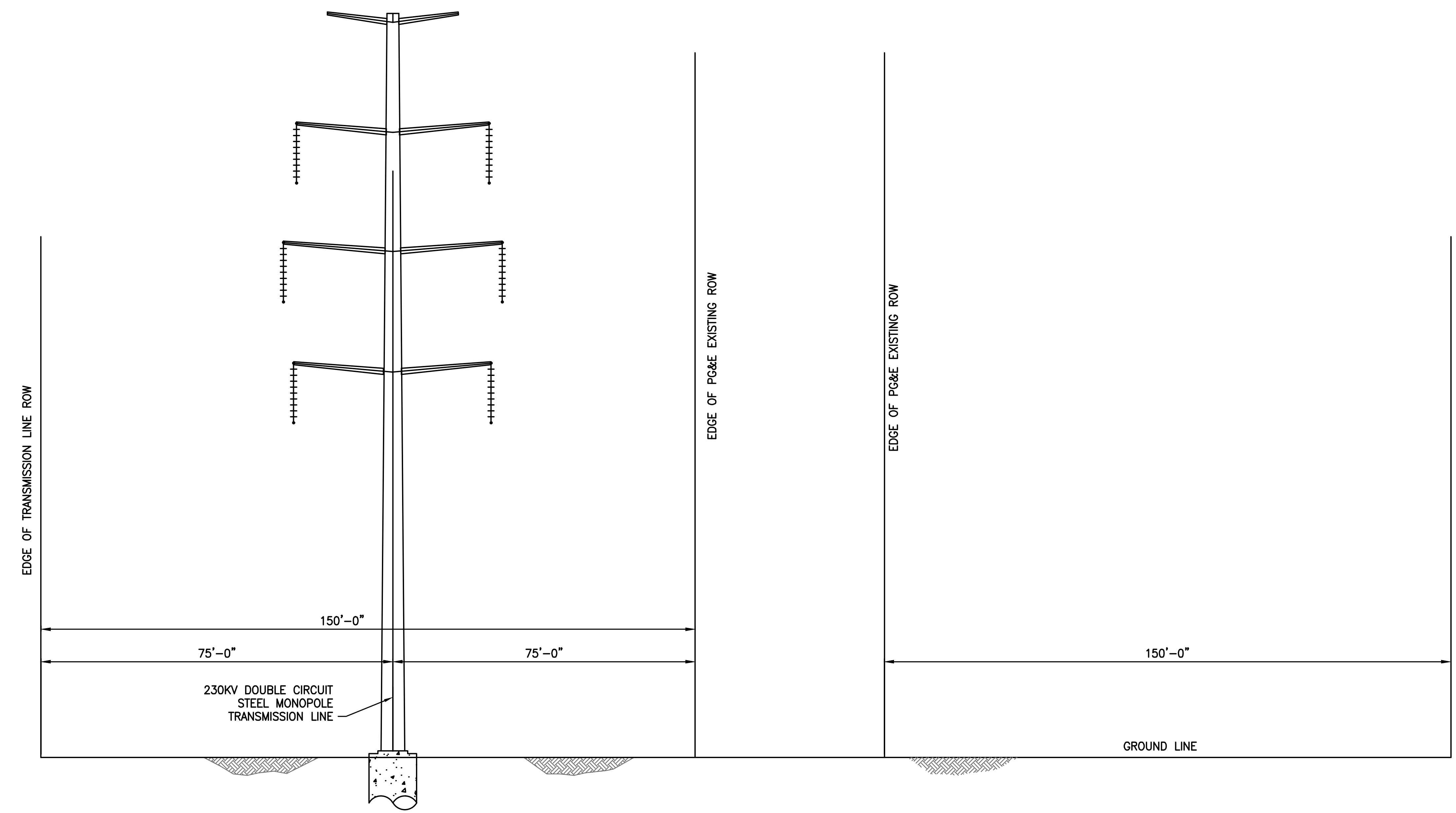
SITES RESERVOIR TO 2
GENERAL TRANSMISSION LINE
PG&E OPTION SECTION B-B

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
GEN-100-E-3202

PROJECT FEASIBILITY STUDY — NOT FOR CONSTRUCTION

PLOTTED BY:CASSELL, CHRISTOPHER —November 6, 2020-3:44:42 PM
DRAWING: GEN-100-E-3202_D3380600.dwg
JACOBS PROJECT # D3380600



SECTION C-C
SECTION C'-C' (ALTERNATE)
PG&E ALTERNATE OPTION ALONG NORTH-SOUTH CORRIDOR

SCALE: NTS

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: G PEPI
DRAWN BY: C CASSELL
CHECKED BY: G PEPI
IN CHARGE: P RUDE
DATE: 11-09-2020

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Sites

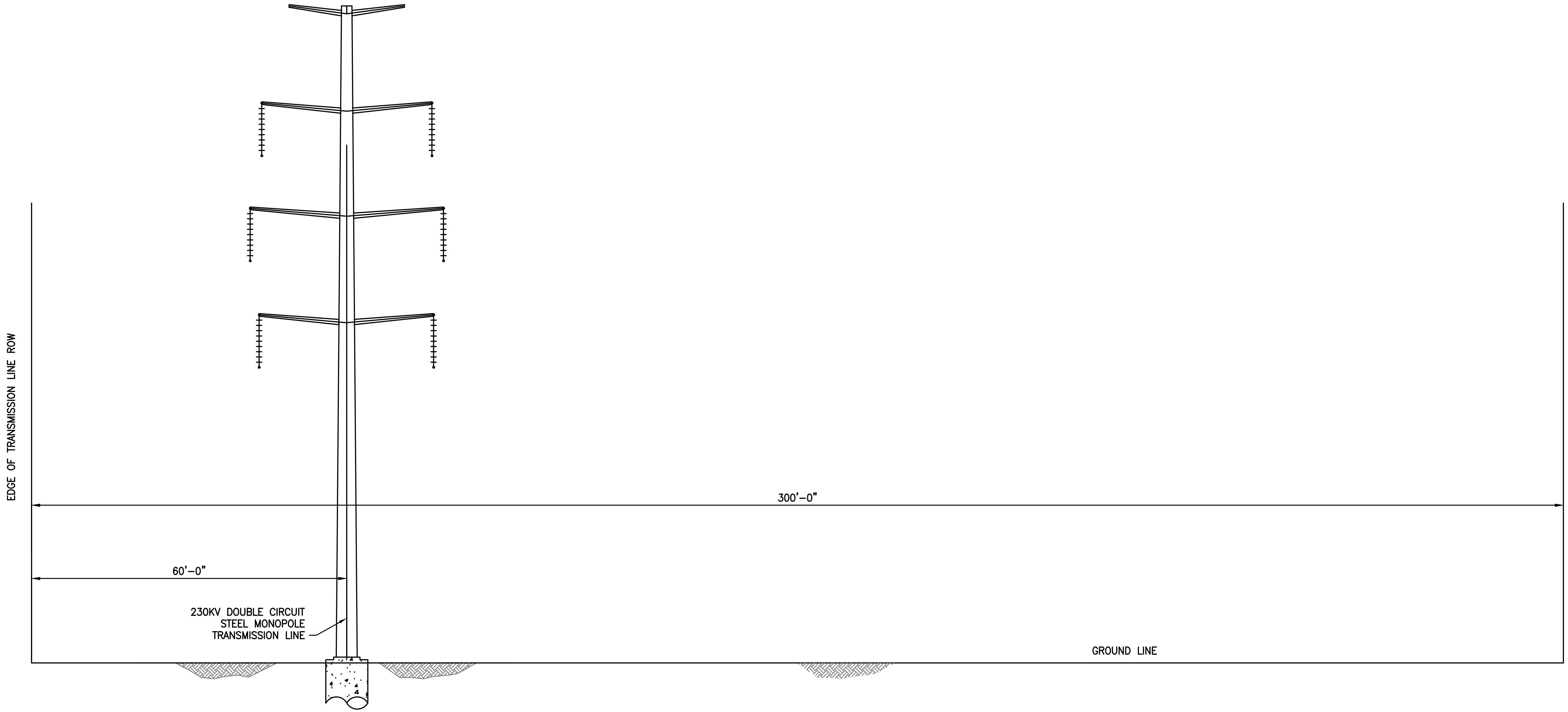
SITES RESERVOIR TO 2
GENERAL TRANSMISSION LINE
PG&E OPTION SECTION C-C

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
GEN-100-E-3203

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:CASSELL, CHRISTOPHER –November 6, 2020–3:44:42 PM
DRAWING: GEN-100-E-3203_D3380600.dwg
JACOBS PROJECT # D3880600



SECTION D–D
SECTION D'–D' (ALTERNATE)
PG&E OPTION BETWEEN WAPA CORRIDOR AND FUNKS

SCALE
HORIZ SCALE: 3/32" = 1'–0"
VERT SCALE: 3/32" = 1'–0"

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: G PEPI
DRAWN BY: C CASSELL
CHECKED BY: G PEPI
IN CHARGE: P RUDE
DATE: 11-09-2020

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STATE OF CALIFORNIA

Sites

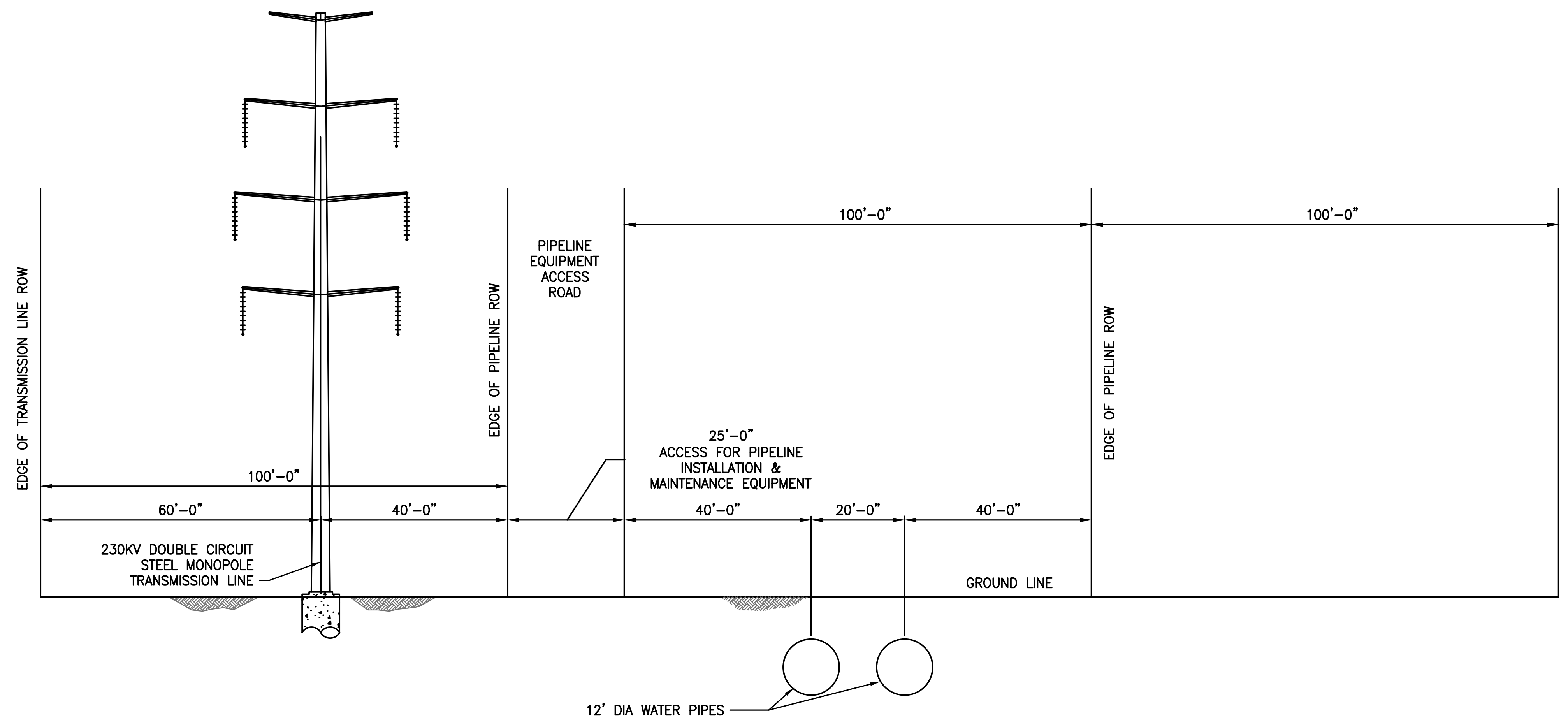
SITES RESERVOIR TO 2
GENERAL TRANSMISSION LINE
PG&E OPTION SECTION D–D

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
GEN–100–E–3204

PROJECT FEASIBILITY STUDY — NOT FOR CONSTRUCTION

PLOTTED BY:CASSELL, CHRISTOPHER –November 6, 2020–3:44:42 PM
DRAWING: GEN–100–E–3204_D3380600.dwg
JACOBS PROJECT # D3880600



SECTION A–A
SECTION A'–A' (ALTERNATE)
WAPA OPTION ALONG PIPELINE ROW
BETWEEN WAPA AND PG&E CORRIDOR

SCALE
HORIZ SCALE: 1/16" = 1'–0"
VERT SCALE: 1/16" = 1'–0"

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: G PEPI
DRAWN BY: C CASSELL
CHECKED BY: G PEPI
IN CHARGE: P RUDE
DATE: 11-09-2020

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VANDERWEIL POWER GROUP

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STATE OF CALIFORNIA

Sites

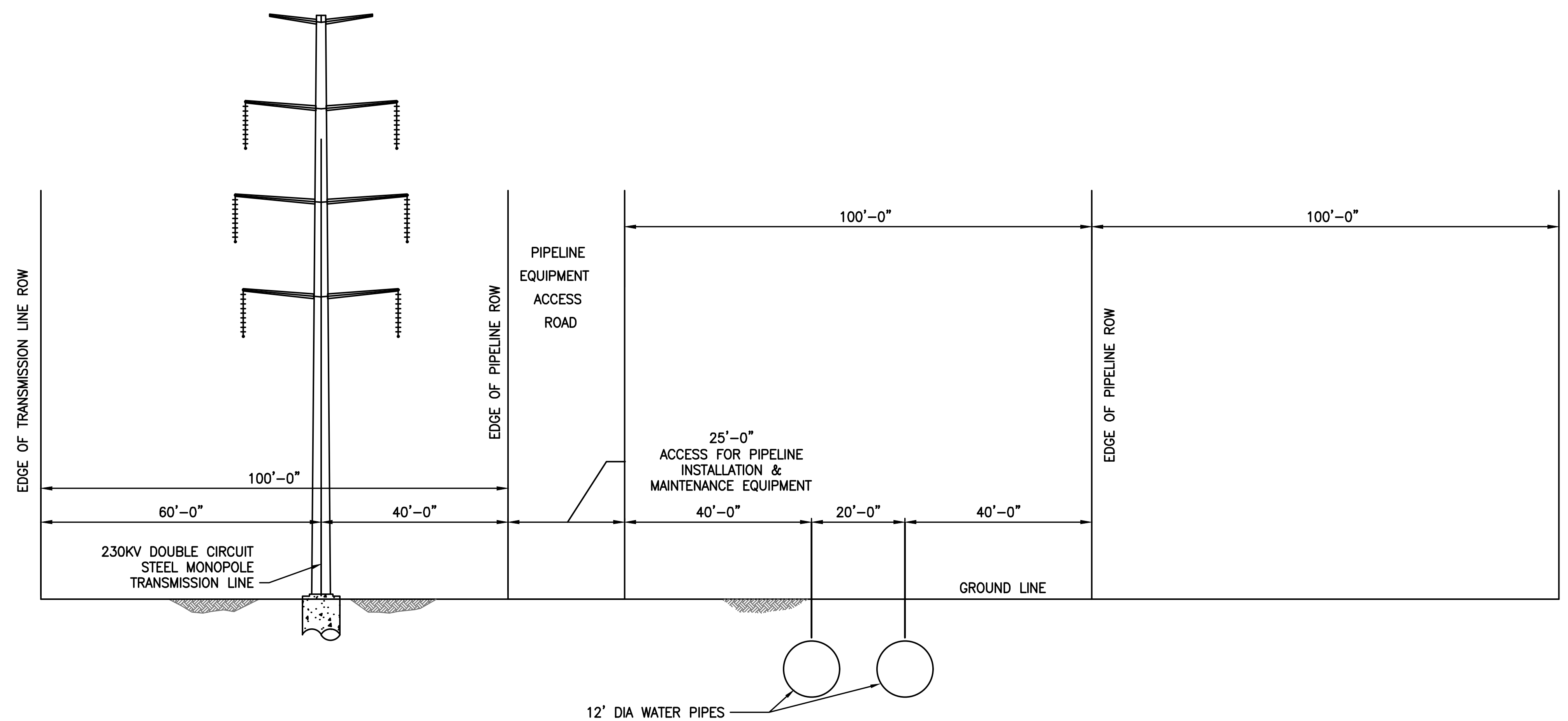
SITES RESERVOIR TO 2
GENERAL TRANSMISSION LINE
WAPA OPTION SECTION A–A

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
GEN-100-E-3301

PROJECT FEASIBILITY STUDY — NOT FOR CONSTRUCTION

PLOTTED BY:CASSELL, CHRISTOPHER —November 6, 2020—3:44:42 PM
DRAWING: GEN-100-E-3301_D3380600.dwg
JACOBS PROJECT # D3880600



SECTION B–B
SECTION B'–B' (ALTERNATE)
WAPA OPTION ALONG PIPELINE ROW
BETWEEN PG&E CORRIDOR AND TRR EAST

SCALE
HORIZ SCALE: 1/16" = 1'–0"
VERT SCALE: 1/16" = 1'–0"

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: G PEPI
DRAWN BY: C CASSELL
CHECKED BY: G PEPI
IN CHARGE: P RUDE
DATE: 11-09-2020

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STATE OF CALIFORNIA

Sites

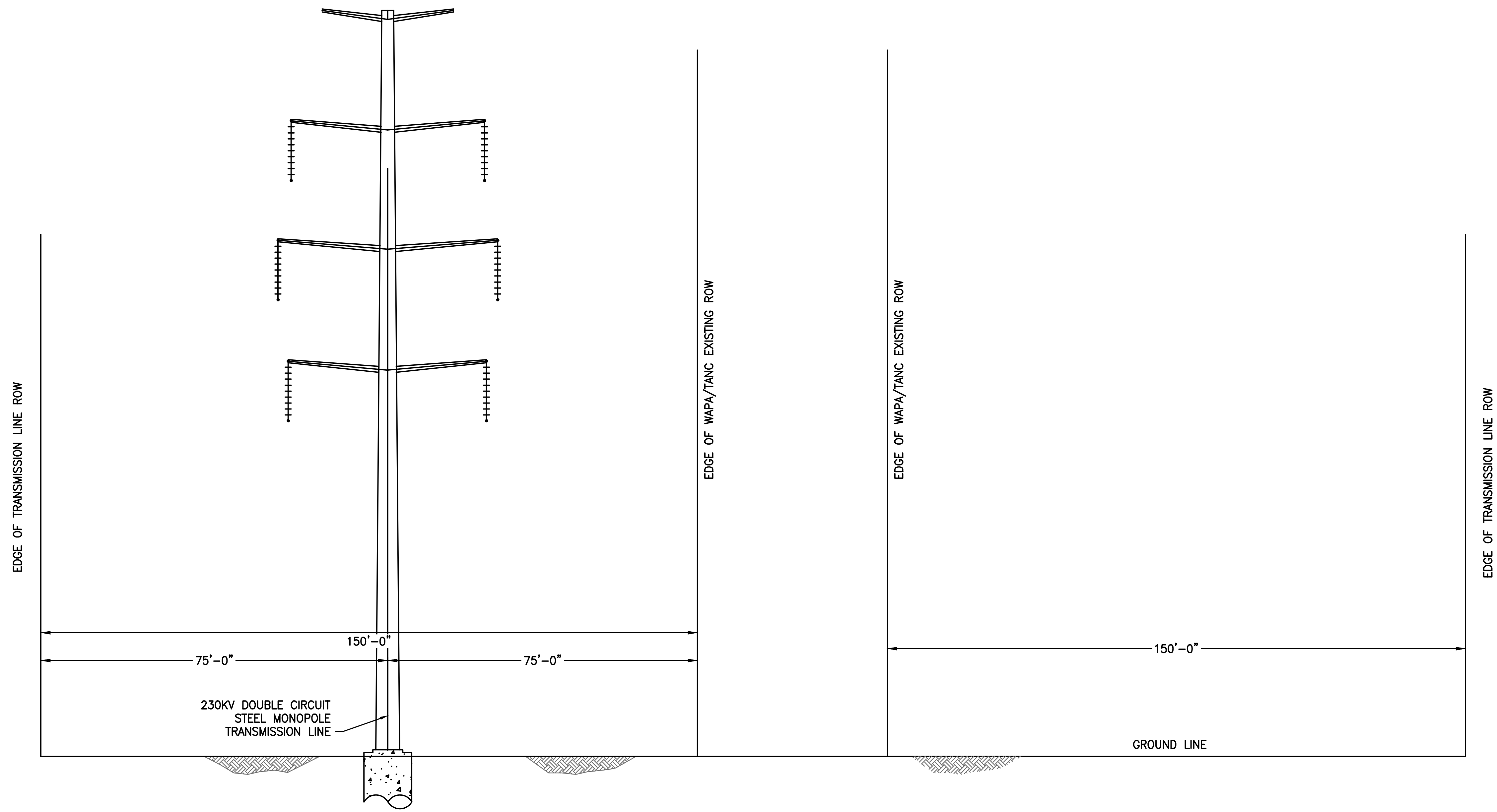
SITES RESERVOIR TO 2
GENERAL TRANSMISSION LINE
WAPA OPTION SECTION B–B

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
GEN–100–E–3302

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:CASSELL, CHRISTOPHER –November 6, 2020–3:44:42 PM
DRAWING: GEN–100–E–3302_D3380600.dwg
JACOBS PROJECT # D3380600



SECTION C-C
SECTION C'-C' (ALTERNATE)
WAPA ALTERNATE OPTION ALONG NORTH-SOUTH CORRIDOR

SCALE: NTS

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: G PEPI
DRAWN BY: C CASSELL
CHECKED BY: G PEPI
IN CHARGE: P RUDE
DATE: 11-09-2020

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STATE OF CALIFORNIA

Sites

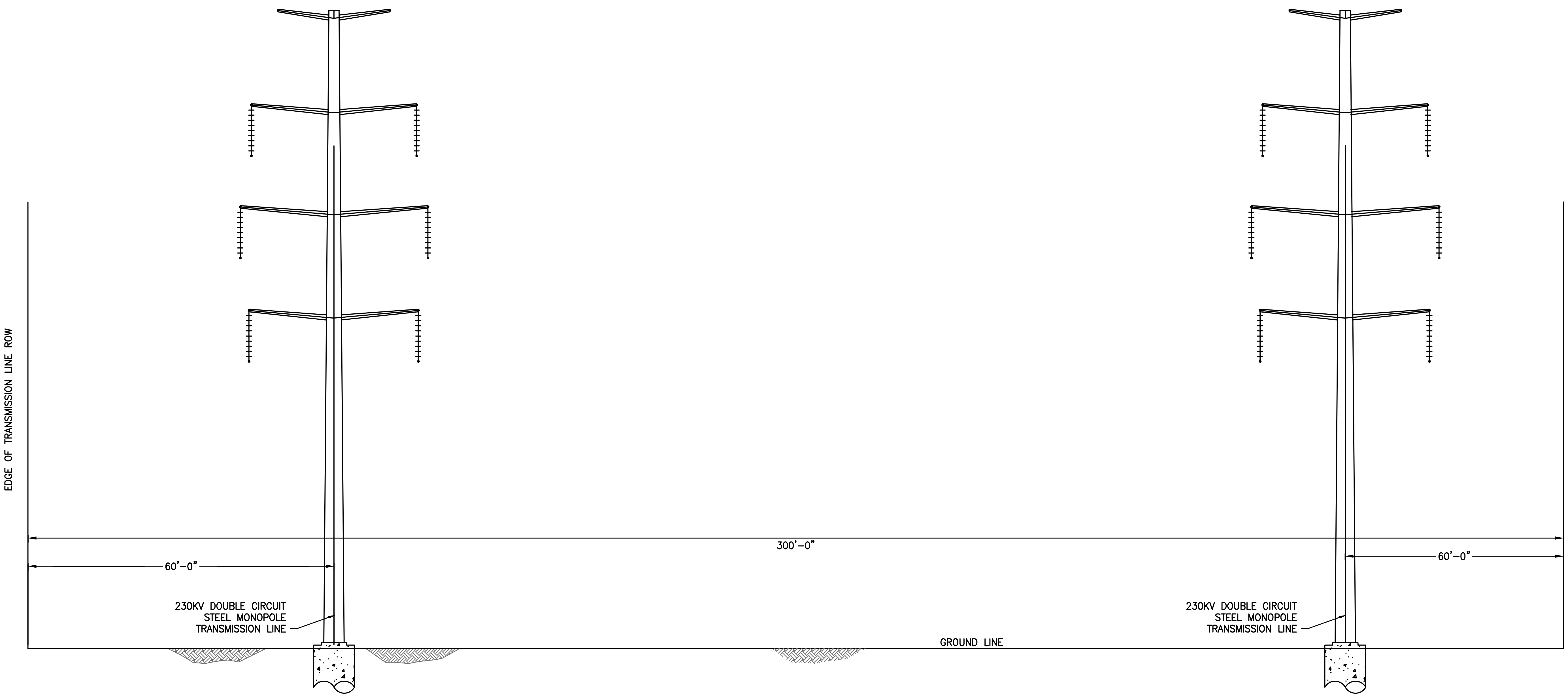
SITES RESERVOIR TO 2
GENERAL TRANSMISSION LINE
WAPA OPTION SECTION C-C

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
GEN-100-E-3303

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:CASSELL, CHRISTOPHER –November 6, 2020–3:44:42 PM
DRAWING: GEN-100-E-3303_D3380600.dwg
JACOBS PROJECT # D3880600



SECTION D–D
SECTION D'–D' (ALTERNATE)
WAPA OPTION BETWEEN WAPA CORRIDOR AND FUNKS

SCALE
HORIZ SCALE: 3/32" = 1'–0"
VERT SCALE: 3/32" = 1'–0"

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY:	G PEPI
DRAWN BY:	C CASSELL
CHECKED BY:	G PEPI
IN CHARGE:	P RUDE
DATE:	11-09-2020

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STATE OF CALIFORNIA

Sites

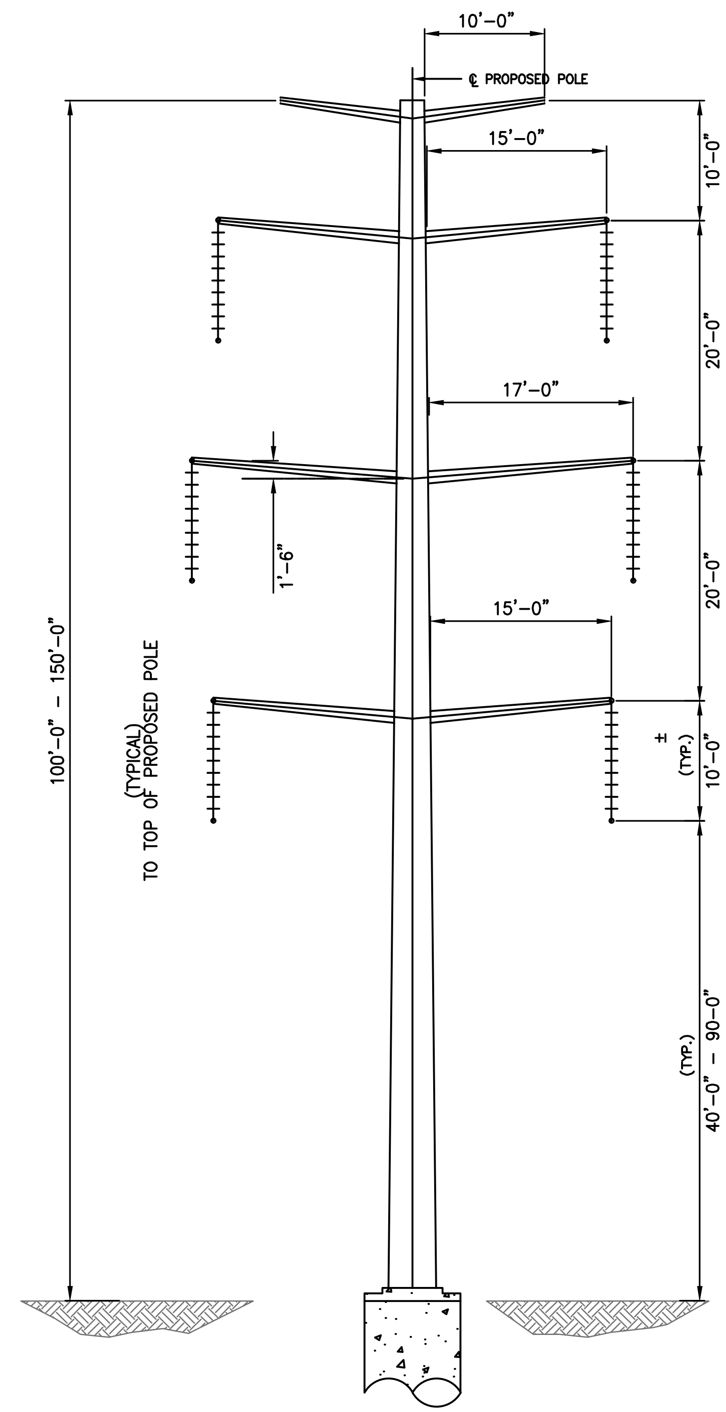
SITES RESERVOIR TO 2
GENERAL TRANSMISSION LINE
WAPA OPTION SECTION D–D

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
GEN-100-E-3304

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:CASSELL, CHRISTOPHER –November 6, 2020–3:44:42 PM
DRAWING: GEN-100-E-3304_D3380600.dwg
JACOBS PROJECT # D3880600



SCALE
HORIZ SCALE: 1/8" = 1'-0"
VERT SCALE: 1/8" = 1'-0"

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: G PEPI
DRAWN BY: C CASSELL
CHECKED BY: G PEPI
IN CHARGE: P RUDE
DATE: 11-09-2020

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REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

Sites

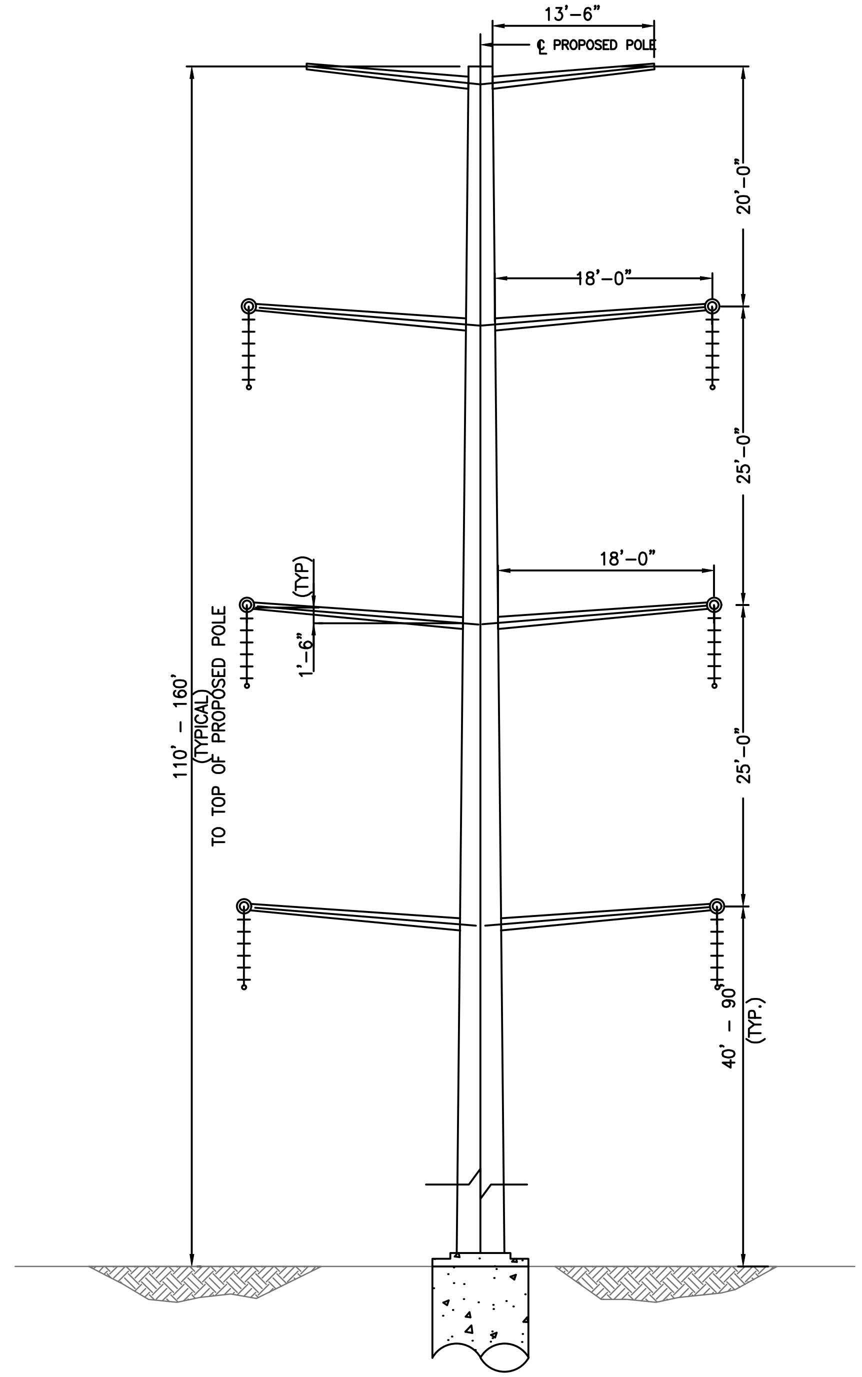
SITES RESERVOIR TO 2
GENERAL TRANSMISSION LINE STRUCTURE OUTLINE
TYP. STEEL POLE DOUBLE CIRCUIT SUSP. STRUCTURE

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
GEN-100-E-5001

PROJECT FEASIBILITY STUDY - NOT FOR CONSTRUCTION

PLOTTED BY:CASSELL, CHRISTOPHER -November 6, 2020-3:44:42 PM
DRAWING: GEN-100-E-5001_D3380600.dwg
JACOBS PROJECT # D3880600



SCALE
HORIZ SCALE: 1/8" = 1'-0"
VERT SCALE: 1/8" = 1'-0"

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: G PEPI
DRAWN BY: C CASSELL
CHECKED BY: G PEPI
IN CHARGE: P RUDE
DATE: 11-09-2020

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VANDERWEIL POWER GROUP

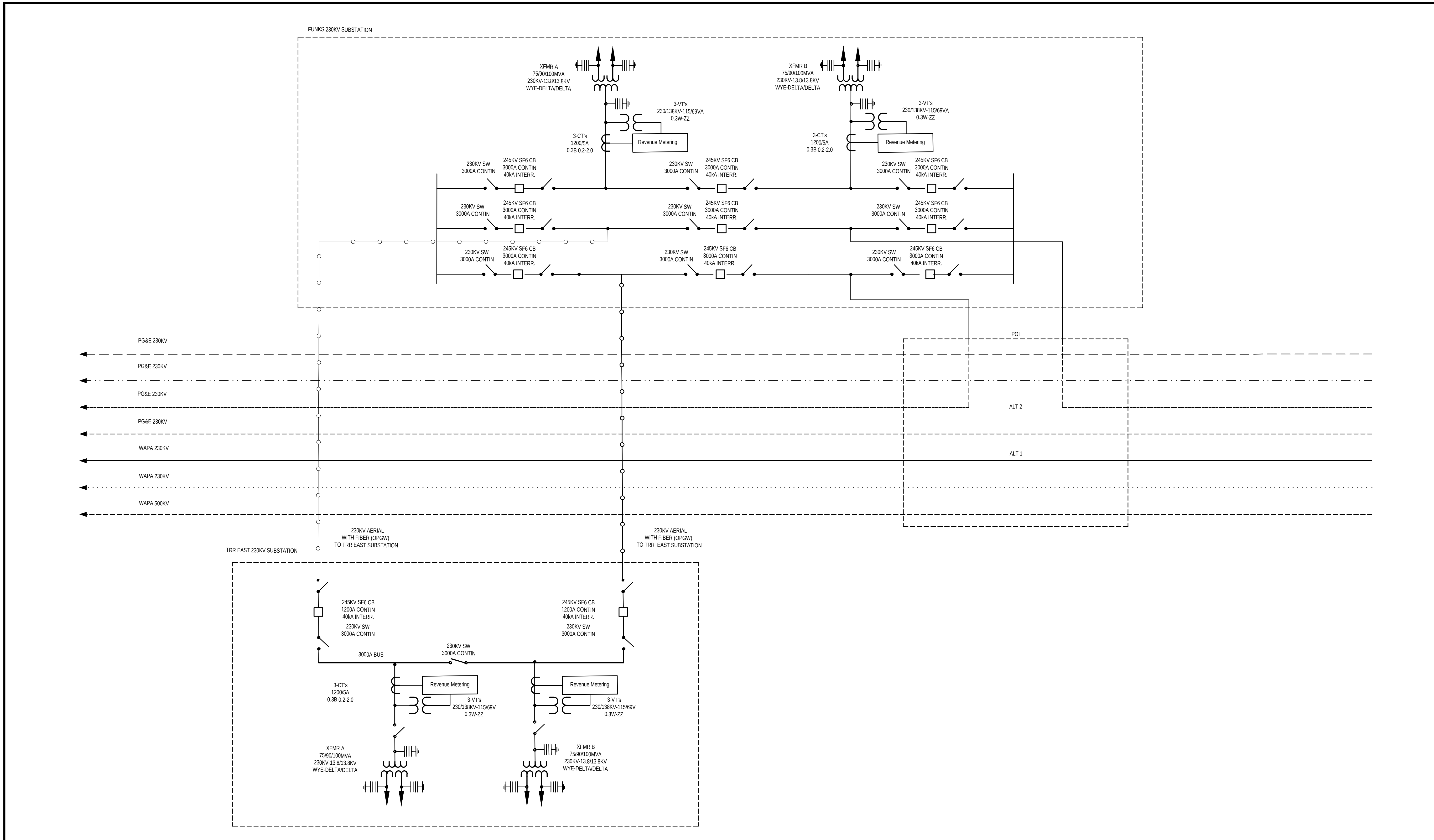
Sites

SITES RESERVOIR TO 2
GENERAL TRANSMISSION LINE STRUCTURE OUTLINE
TYP. STEEL POLE DOUBLE CIRCUIT DEADEND STRUCT.

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
GEN-100-E-5002

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION



PLOTTED BY:RASHEED, ASIF –November 5, 2020–3:44:42 PM
DRAWING: GEN-100-E-6001_D3380600.dwg
JACOBS PROJECT # D3380600

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: S WEGIEL
DRAWN BY: A RASHEED
CHECKED BY: S WEGIEL
IN CHARGE: P RUDE
DATE: 11-09-2020

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STATE OF CALIFORNIA

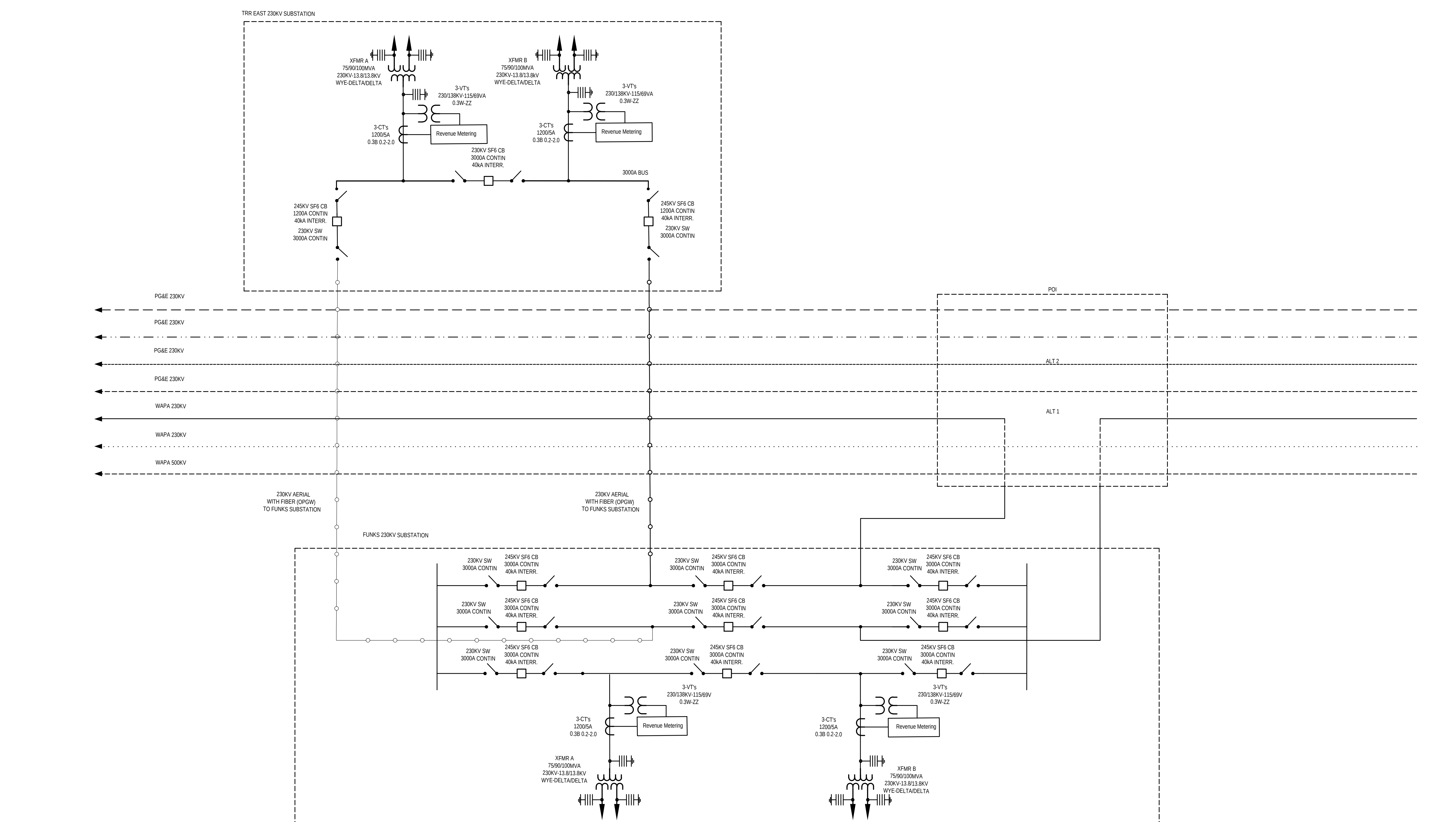
Sites

SITES RESERVOIR TO 2
GENERAL – ELECTRICAL
PG&E POINT OF INTERCONNECTION
OVERALL ONE LINE DIAGRAM

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
GEN-100-E-6001

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION



PLOTTED BY:RASHEED, ASIF –November 5, 2020–3:44:42 PM
DRAWING: GEN–100–E–6002_D3380600.dwg
JACOBS PROJECT # D3380600

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: S WEGIEL
DRAWN BY: A RASHEED
CHECKED BY: S WEGIEL
IN CHARGE: P RUDE
DATE: 11-09-2020

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VANDERWEIL POWER GROUP

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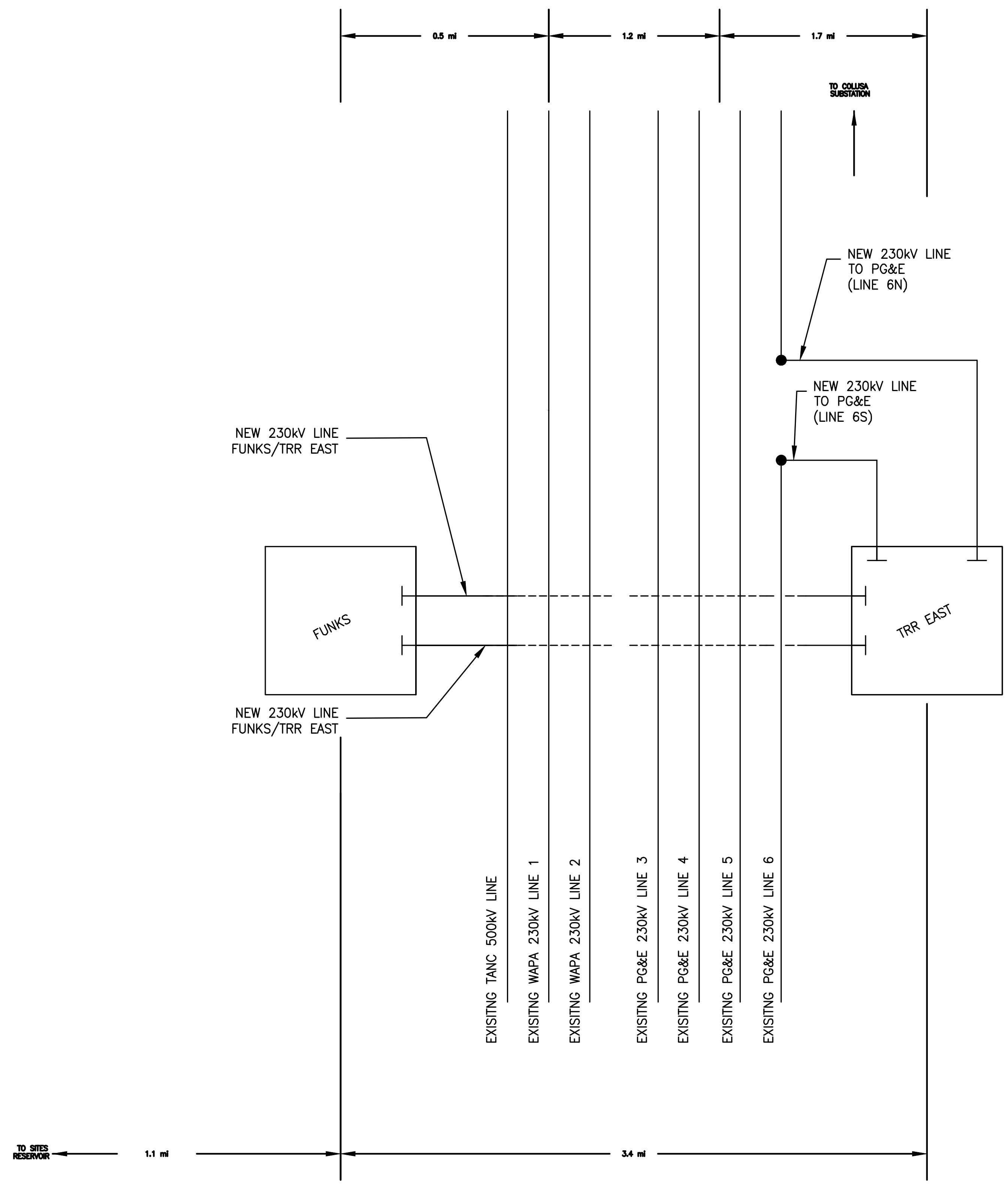
STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2
GENERAL – ELECTRICAL
WAPA POINT OF INTERCONNECTION
OVERALL ONE LINE DIAGRAM

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
GEN-100-E-6002



PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:CASSELL, CHRISTOPHER –November 6, 2020–3:44:42 PM
DRAWING: GEN–100–E–6003_D3380600.dwg
JACOBS PROJECT # D3380600

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY:	G PEPI
DRAWN BY:	C HATCH
CHECKED BY:	G PEPI
IN CHARGE:	P RUDE
DATE:	11-09-2020

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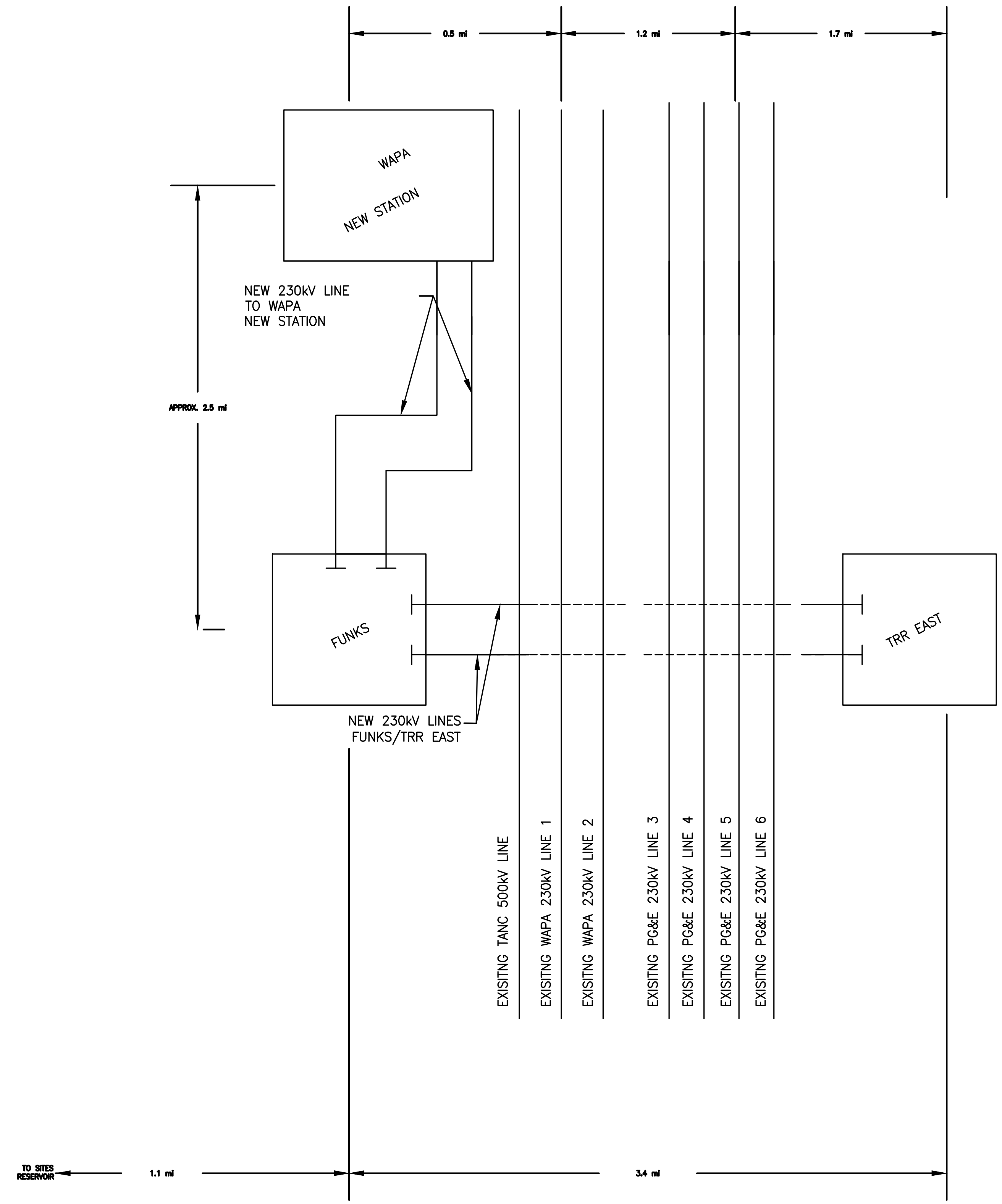
Sites

SITES RESERVOIR TO 2
GENERAL TRANSMISSION LINE
POINT OF INTERCONNECTION 230kV
SCHEMATIC – PG&E POI

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
GEN-100-E-6003



PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: G PEPI
DRAWN BY: C HATCH
CHECKED BY: G PEPI
IN CHARGE: P RUDE
DATE: 11-09-2020

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STATE OF CALIFORNIA

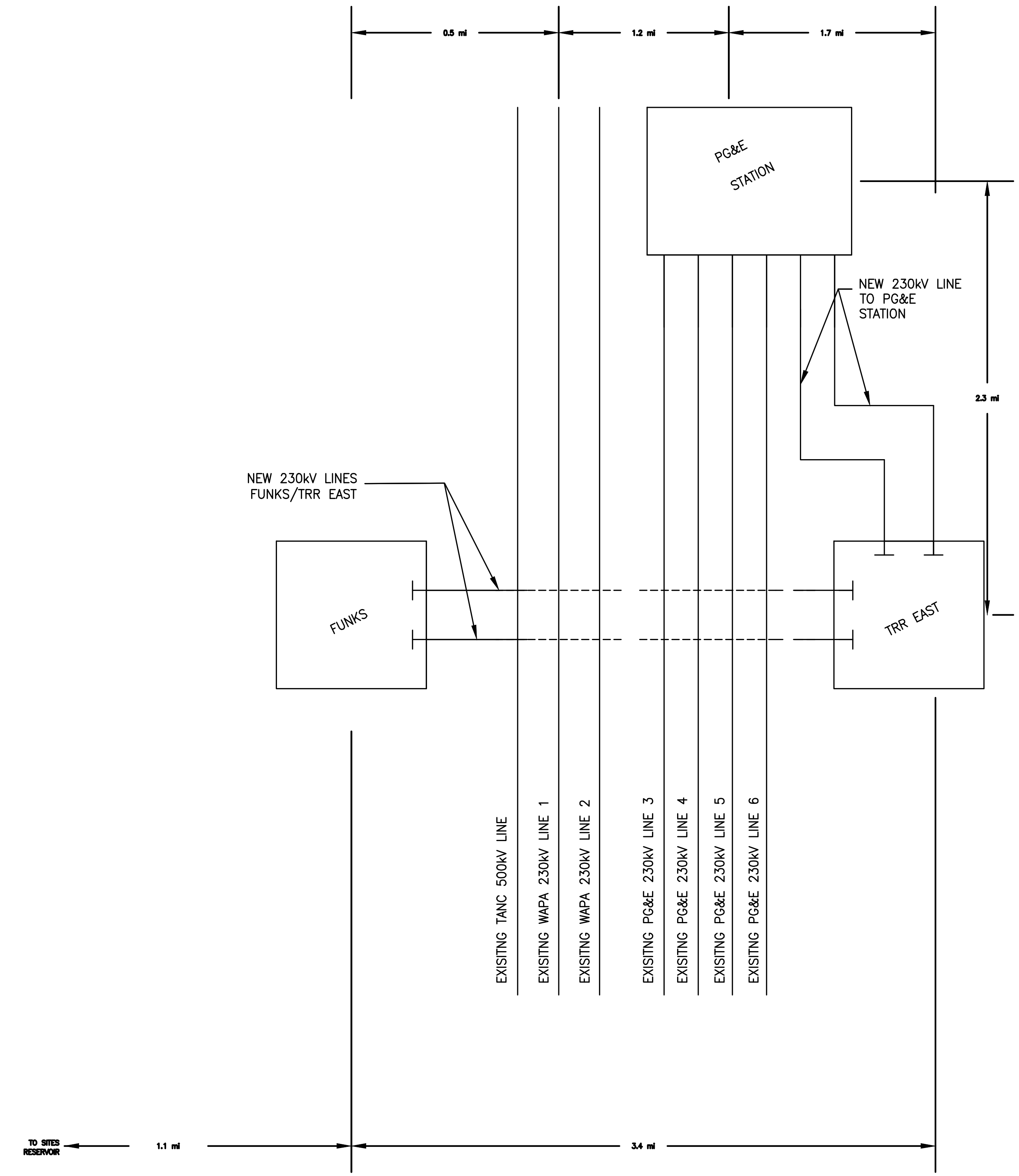
Sites

SITES RESERVOIR TO 2
GENERAL TRANSMISSION LINE
POINT OF INTERCONNECTION 230kV
SCHEMATIC – WAPA POI TO NEW STATION

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
GEN-100-E-6004

PLOTTED BY:CASSELL, CHRISTOPHER –November 6, 2020–3:44:42 PM
DRAWING: GEN-100-E-6004_D3380600.dwg
JACOBS PROJECT # D3880600



I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: G PEPI
DRAWN BY: C HATCH
CHECKED BY: G PEPI
IN CHARGE: P RUDE
DATE: 11-09-2020

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Sites

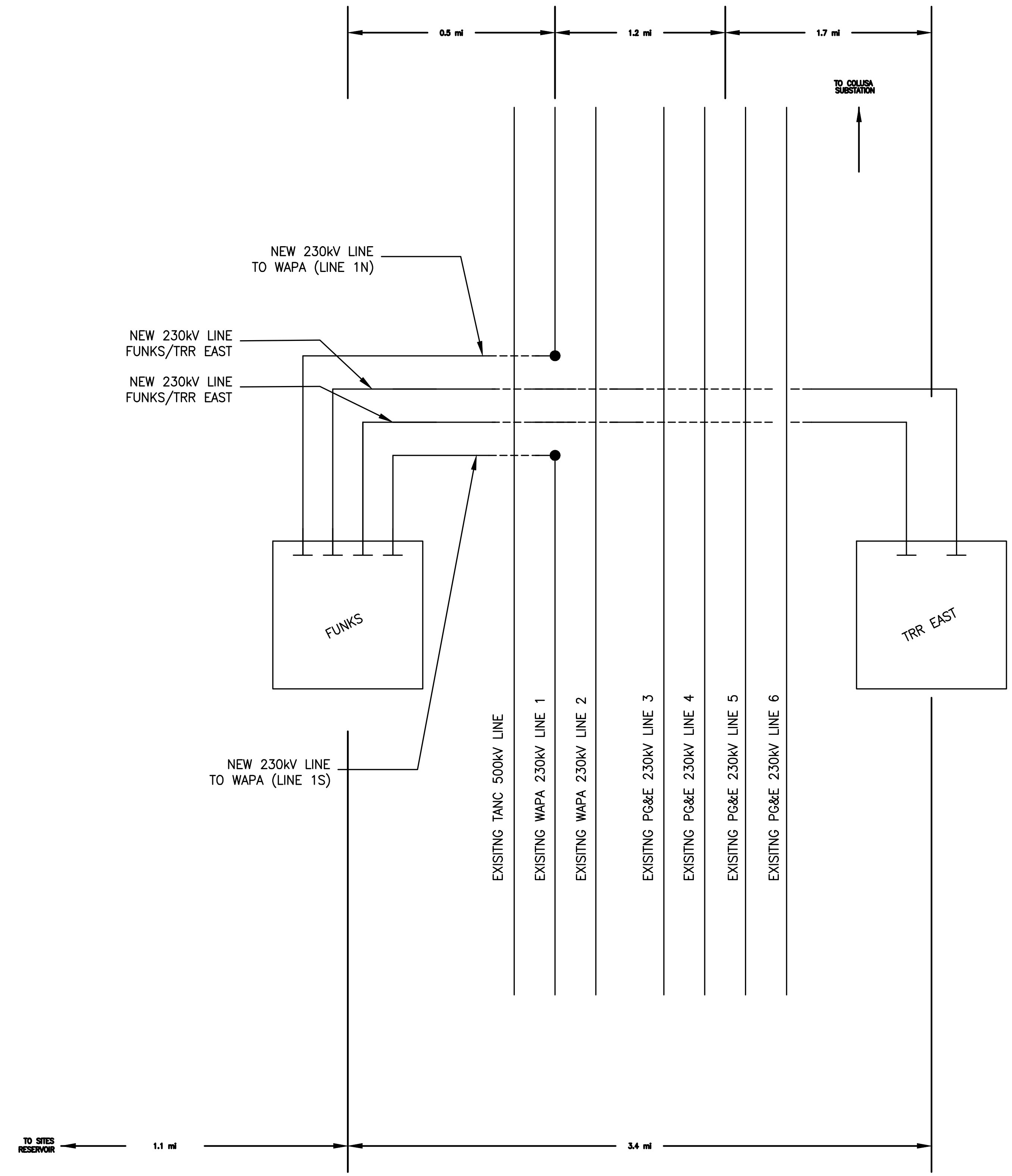
SITES RESERVOIR TO 2
GENERAL TRANSMISSION LINE
POINT OF INTERCONNECTION 230kV
SCHEMATIC – PG&E POI TO PG&E STATION

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
GEN-100-E-6005

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:CASSELL, CHRISTOPHER –November 6, 2020–3:44:42 PM
DRAWING: GEN-100-E-6005_D3380600.dwg
JACOBS PROJECT # D3380600



I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: G PEPI
DRAWN BY: C CASSELL
CHECKED BY: G PEPI
IN CHARGE: P RUDE
DATE: 11-09-2020

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VANDERWEIL POWER GROUP

Sites

SITES RESERVOIR TO 2
GENERAL TRANSMISSION LINE
POINT OF INTERCONNECTION 230kV
SCHEMATIC – WAPA POI

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

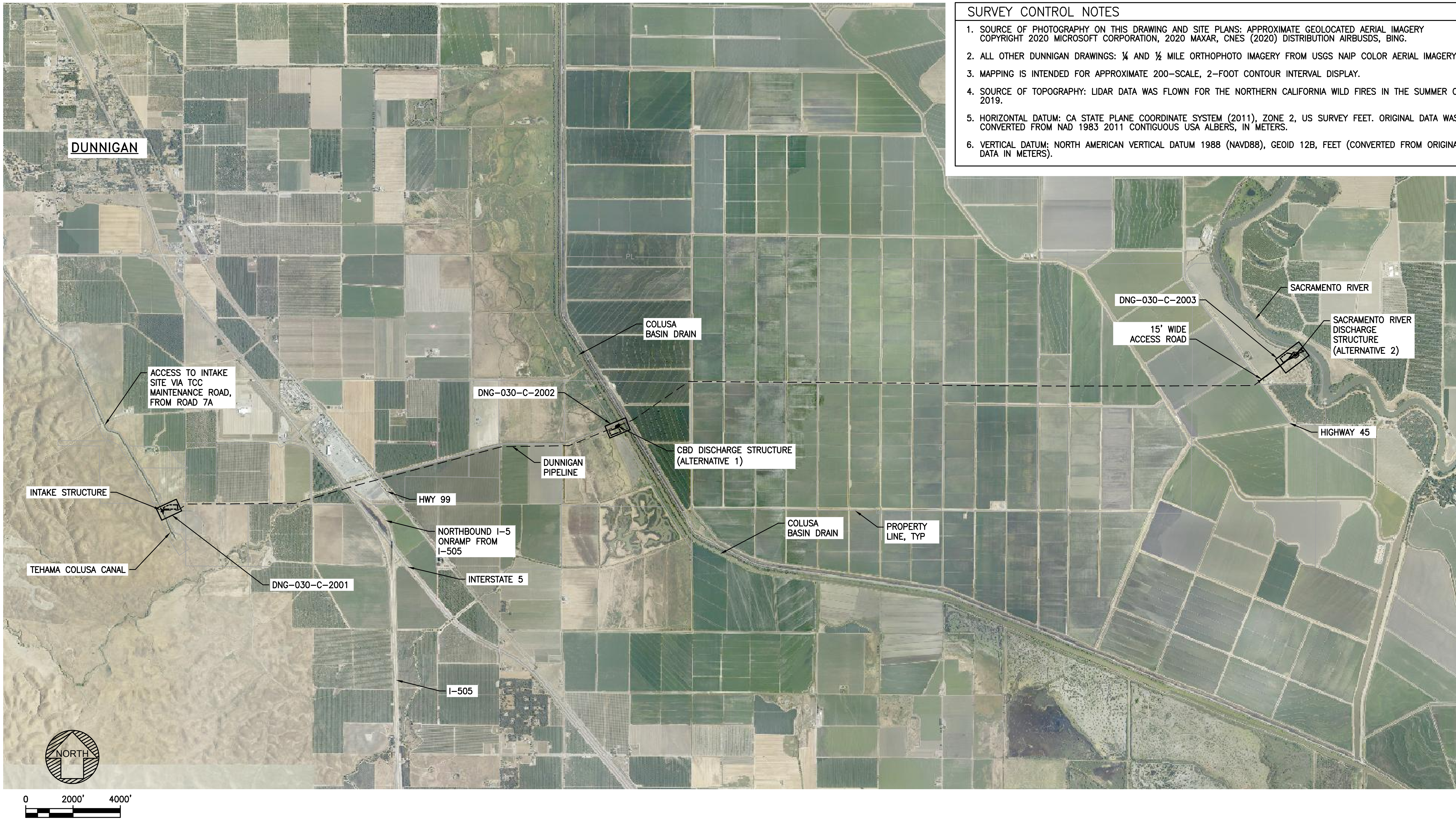
DRAWING NO.
GEN-100-E-6006

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:CASSELL, CHRISTOPHER –November 6, 2020–3:44:42 PM
DRAWING: GEN-100-E-6006_D3380600.dwg
JACOBS PROJECT # D3880600

SURVEY CONTROL NOTES

1. SOURCE OF PHOTOGRAPHY ON THIS DRAWING AND SITE PLANS: APPROXIMATE GEOLOCATED AERIAL IMAGERY COPYRIGHT 2020 MICROSOFT CORPORATION, 2020 MAXAR, CNES (2020) DISTRIBUTION AIRBUSDS, BING.
2. ALL OTHER DUNNIGAN DRAWINGS: ¼ AND ½ MILE ORTHOPHOTO IMAGERY FROM USGS NAIP COLOR AERIAL IMAGERY.
3. MAPPING IS INTENDED FOR APPROXIMATE 200–SCALE, 2–FOOT CONTOUR INTERVAL DISPLAY.
4. SOURCE OF TOPOGRAPHY: LIDAR DATA WAS FLOWN FOR THE NORTHERN CALIFORNIA WILD FIRES IN THE SUMMER OF 2019.
5. HORIZONTAL DATUM: CA STATE PLANE COORDINATE SYSTEM (2011), ZONE 2, US SURVEY FEET. ORIGINAL DATA WAS CONVERTED FROM NAD 1983 2011 CONTIGUOUS USA ALBERS, IN METERS.
6. VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88), GEOID 12B, FEET (CONVERTED FROM ORIGINAL DATA IN METERS).



PLAN
SCALE: 1" = 2000'

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: B CHELONIS
DRAWN BY: B CHELONIS
CHECKED BY: J SMITH
IN CHARGE: P RUDE
DATE: 11-09-2020

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REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

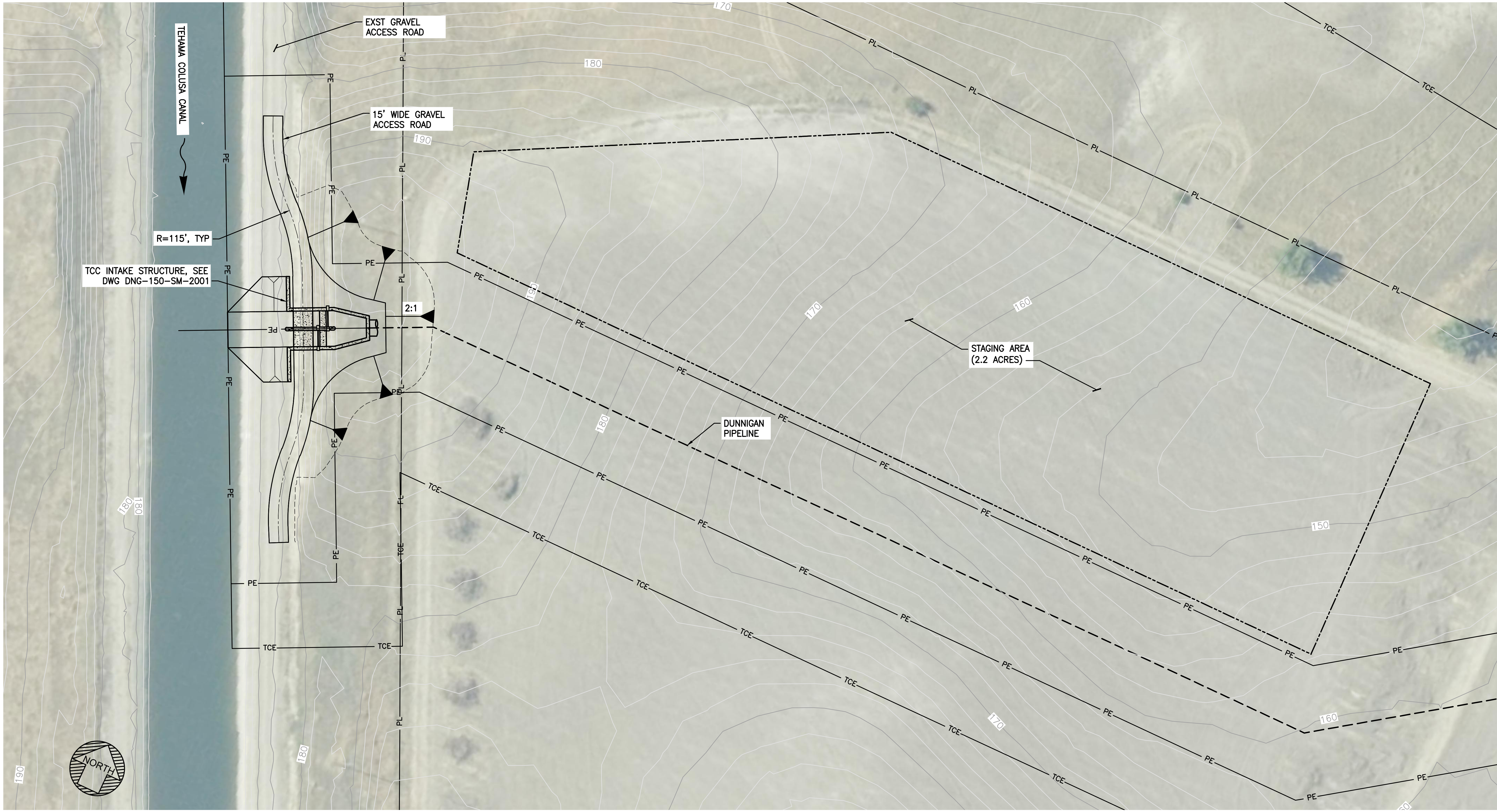
SITES RESERVOIR TO 2
DUNNIGAN
SURVEY CONTROL AND KEY PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
DNG–030–C–2000

PROJECT FEASIBILITY STUDY — NOT FOR CONSTRUCTION

PLOTTED BY:CHELONIS, BECKY/RDD –November 6, 2020–3:44:42 PM
DRAWING: DNG–030–C–2000_D3380600.dwg
JACOBS PROJECT # D3880600



0 30' 60'

PLAN

SCALE: 1" = 30'

PROJECT FEASIBILITY STUDY — NOT FOR CONSTRUCTION

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: B CHELONIS
DRAWN BY: B CHELONIS
CHECKED BY: J SMITH
IN CHARGE: P RUDE
DATE: 11-09-2020

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REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2
DUNNIGAN
INTAKE SITE PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
DNG-030-C-2001

PLOTTED BY:CHELONIS, BECKY/RDD -November 6, 2020-3:44:42 PM
DRAWING: DNG-030-C-2001_D3380600.dwg
JACOBS PROJECT # D3880600

PLAN
SCALE: 1" = 30'

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: B CHELONIS
DRAWN BY: B CHELONIS
CHECKED BY: J SMITH
IN CHARGE: P RUDE
DATE: 11-09-2020

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STATE OF CALIFORNIA

Sites

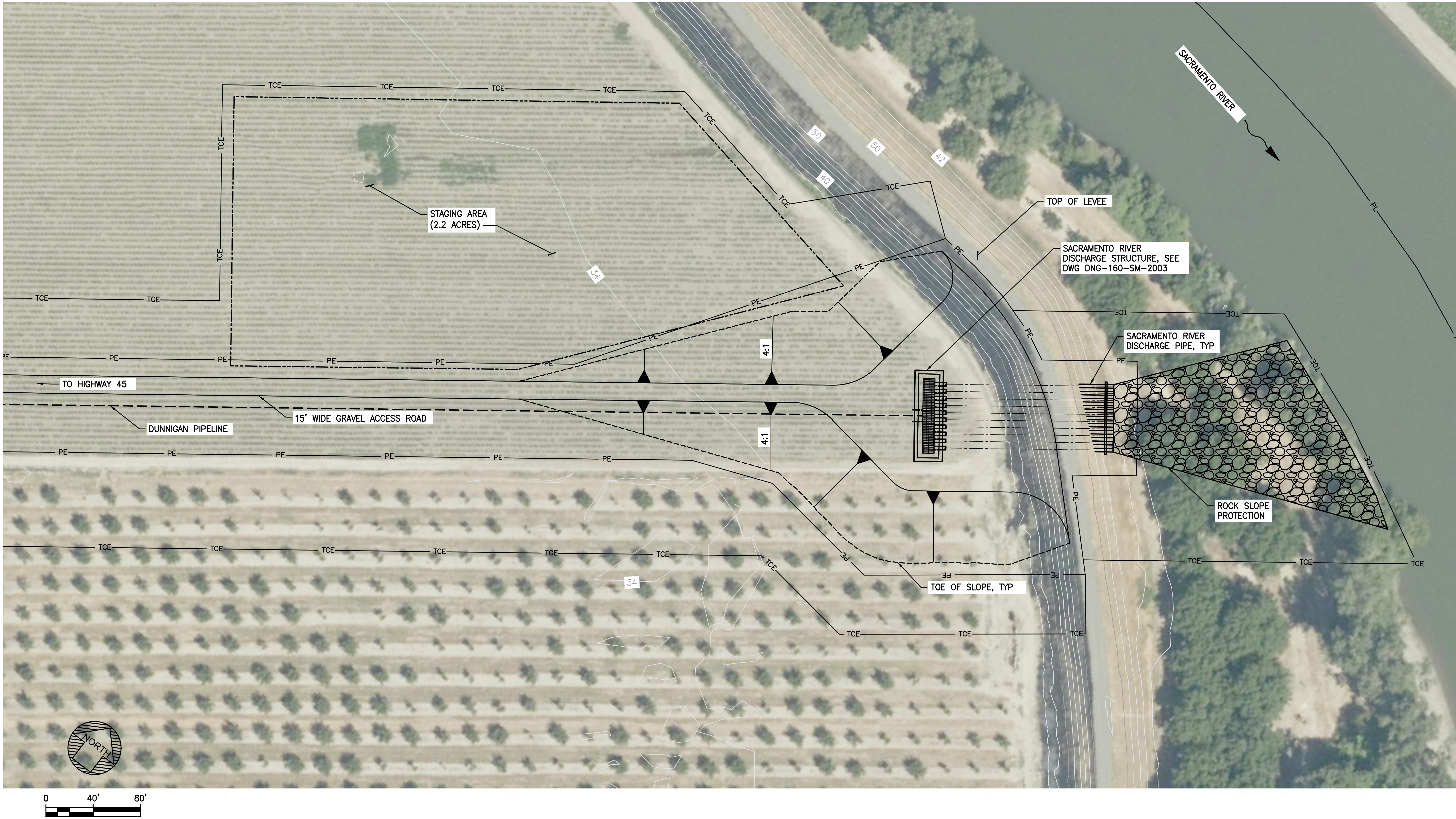
SITES RESERVOIR TO 2
DUNNIGAN
CBD DISCHARGE SITE PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
DNG-030-C-2002

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:CHELONIS, BECKY/RDD -November 6, 2020-3:44:42 PM
DRAWING: DNG-030-C-2002_D3380600.dwg
JACOBS PROJECT # D3380600



PLAN

SCALE: 1" = 40'

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:CHELONIS, BECKY/RDD –November 6, 2020–3:44:42 PM
DRAWING: DNG-030-C-2003_D3380600.dwg
JACOBS PROJECT # D3880600

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY:	B CHELONIS
DRAWN BY:	B CHELONIS
CHECKED BY:	J SMITH
IN CHARGE:	P RUDE
DATE:	11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2

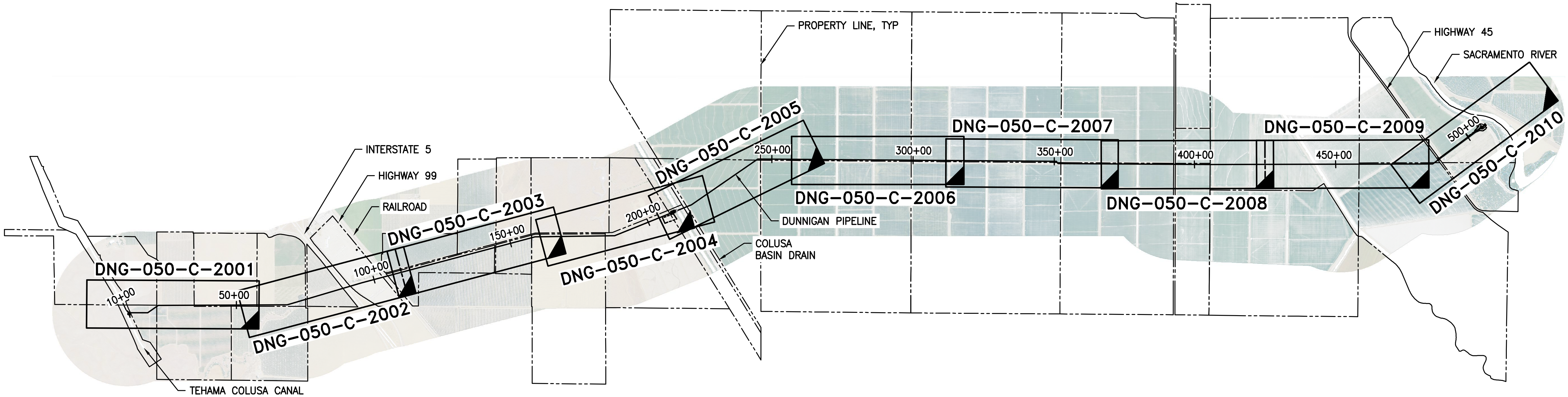
DUNNIGAN

SACRAMENTO RIVER DISCHARGE

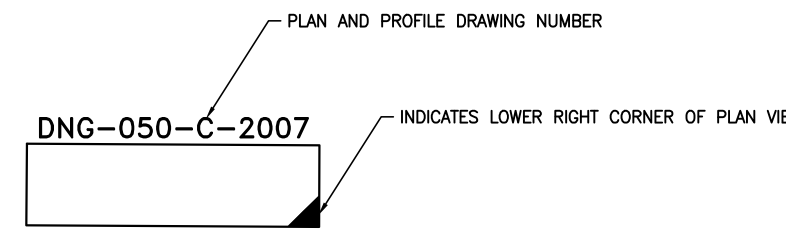
SITE PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
DNG-030-C-2003



KEY PLAN
SCALE: 1" = 2000'



0 2000' 4000'
1" = 2000'

NORTH

PROJECT FEASIBILITY STUDY — NOT FOR CONSTRUCTION

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: N MASCHKE
DRAWN BY: JP SMITH
CHECKED BY: JF SMITH
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

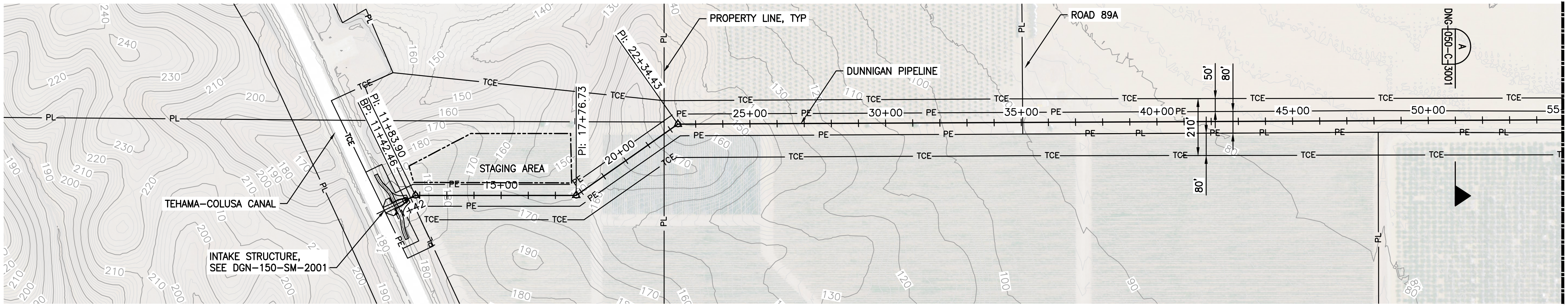
Sites

SITES RESERVOIR TO 2
DUNNIGAN PIPELINE
KEY PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
DNG-050-C-2000

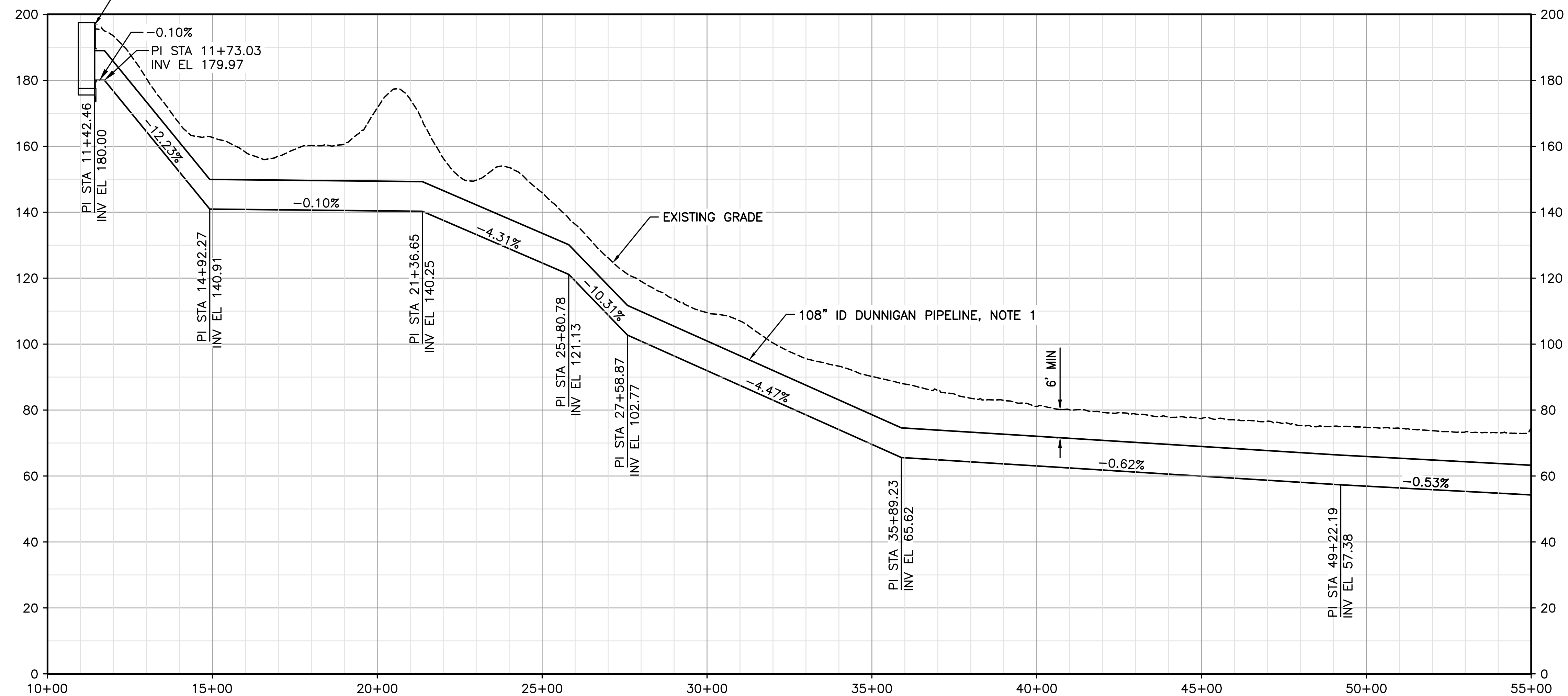
PLOTTED BY:SMITH, JOEL/RDD -November 5, 2020-3:44:42 PM
DRAWING: DNG-050-C-2000_D3380600.dwg
JACOBS PROJECT # D3880600



PLAN
SCALE: 1" = 200'

NOTE:

1. ALTERNATIVE 1, 108" ID TO COLUSA BASIN DRAIN IS SHOWN. ALTERNATIVE 2, 126" ID TO SACRAMENTO RIVER.



PROFILE
HORIZ SCALE: 1" = 200'
VERT SCALE: 1" = 20'

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: N MASCHKE
DRAWN BY: JP SMITH
CHECKED BY: JF SMITH
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
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REDDING CA, 96001
PHONE: (530) 243-5831

Sites

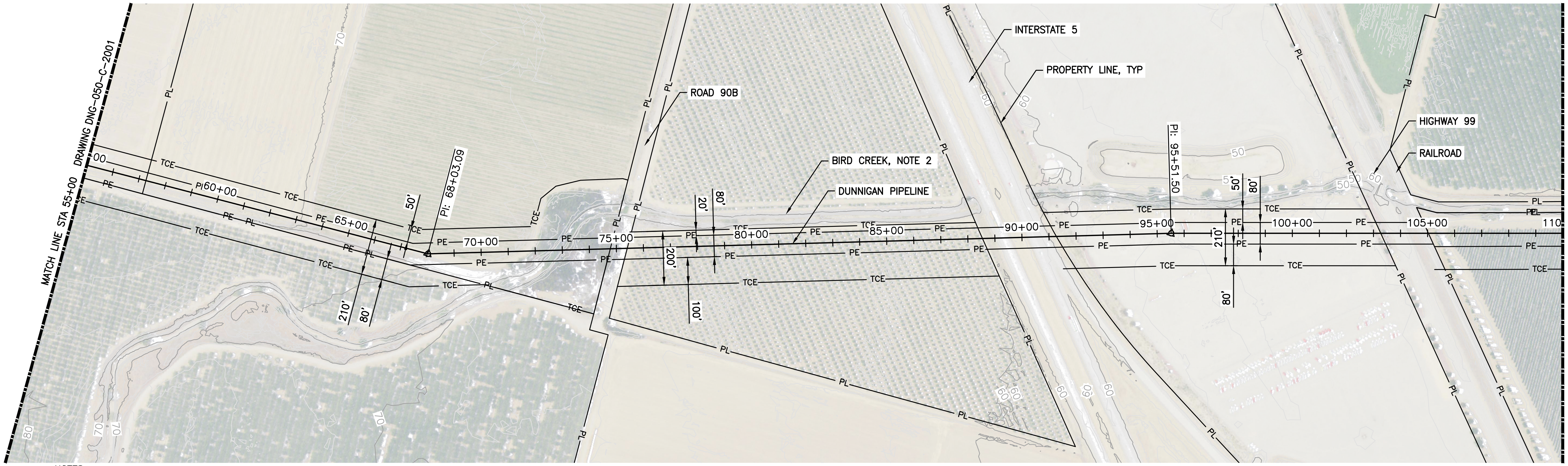
SITES RESERVOIR TO 2
DUNNIGAN PIPELINE – ALTERNATIVES 1 AND 2
PLAN AND PROFILE
STA 11+42 TO 55+00

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
DNG-050-C-2001

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:CAVE, DAVID/RDD –November 9, 2020–3:44:42 PM
DRAWING: DNG-050-C-2001_D3380600.dwg
JACOBS PROJECT # D3380600



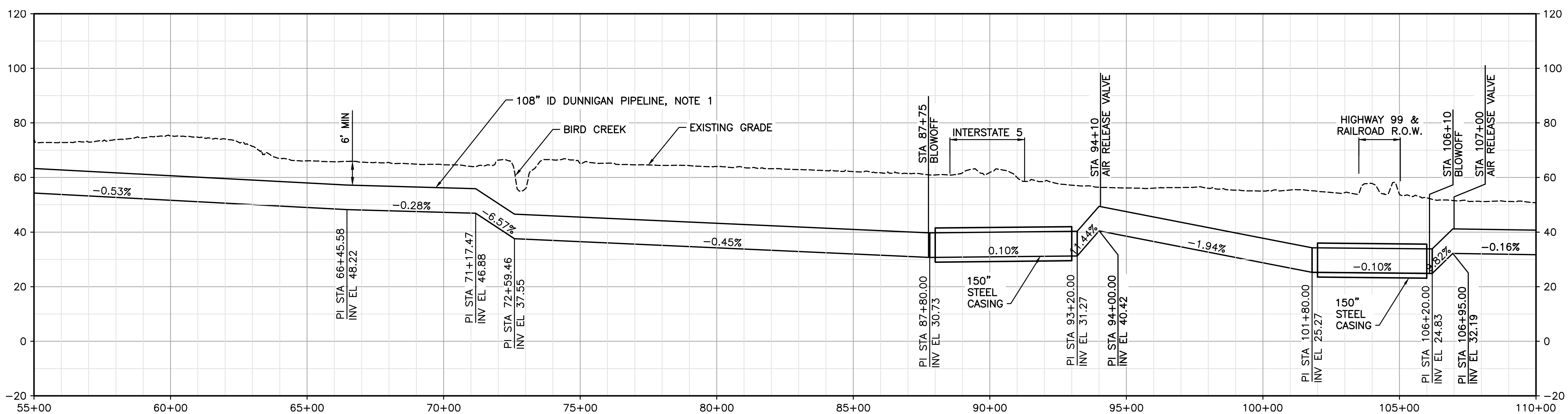
PLAN
SCALE: 1" = 200'

NOTES:

1. ALTERNATIVE 1, 108" ID TO COLUSA BASIN DRAIN IS SHOWN. ALTERNATIVE 2, 126" ID TO SACRAMENTO RIVER.
2. WORK AND STORAGE OF MATERIALS IS PROHIBITED WITHIN BIRD CREEK BANKS.

0 200' 400'
1" = 200'

NORTH



PROFILE
HORIZ SCALE: 1" = 200'
VERT SCALE: 1" = 20'

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: N MASCHKE
DRAWN BY: JP SMITH
CHECKED BY: JF SMITH
IN CHARGE: P RUDE
DATE: 11-09-2020

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REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

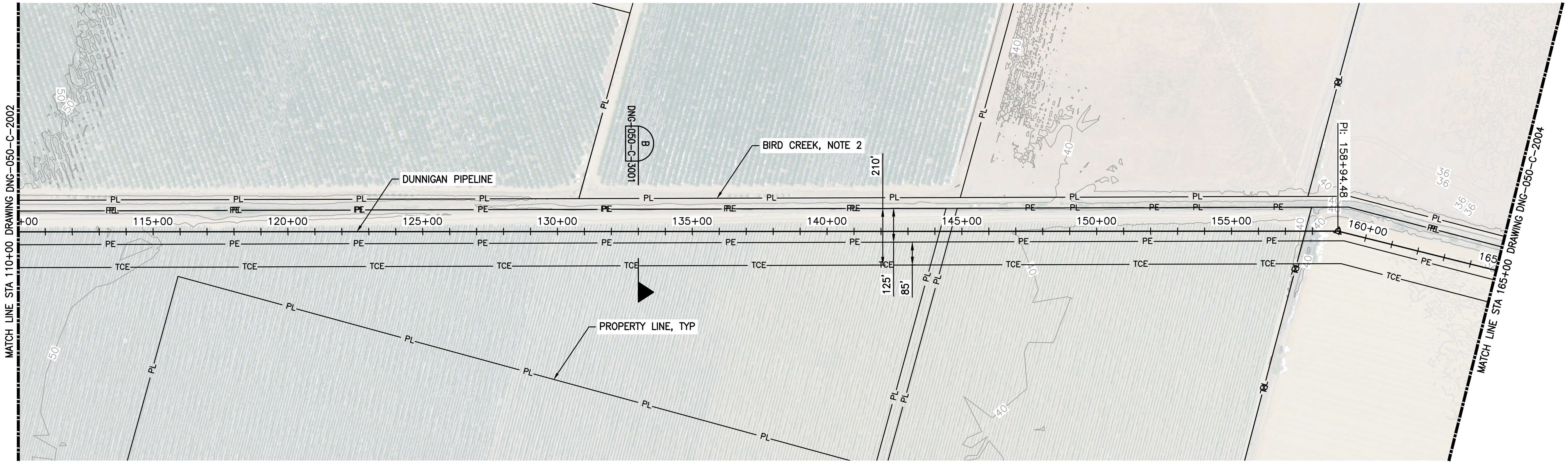
SITES RESERVOIR TO 2
DUNNIGAN PIPELINE – ALTERNATIVES 1 AND 2
PLAN AND PROFILE
STA 55+00 TO 110+00

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
DNG-050-C-2002

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:CAVE, DAVID/RDD –November 9, 2020–3:44:42 PM
DRAWING: DNG-050-C-2002_D3380600.dwg
JACOBS PROJECT # D3880600

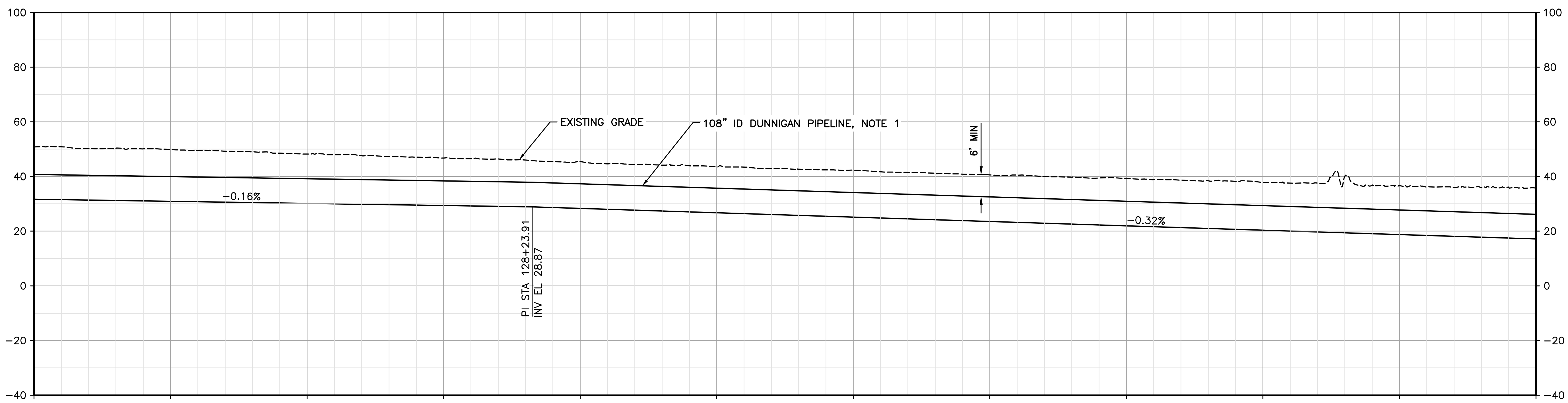


PLAN
SCALE: 1" = 200'

NOTES:

1. ALTERNATIVE 1, 108" ID TO COLUSA BASIN DRAIN IS SHOWN. ALTERNATIVE 2, 126" ID TO SACRAMENTO RIVER.
2. WORK AND STORAGE OF MATERIALS IS PROHIBITED WITHIN BIRD CREEK BANKS.

0 200' 400'
1" = 200'
NORTH



PROFILE
HORIZ SCALE: 1" = 200'
VERT SCALE: 1" = 20'

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: N MASCHKE
DRAWN BY: JP SMITH
CHECKED BY: JF SMITH
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
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REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

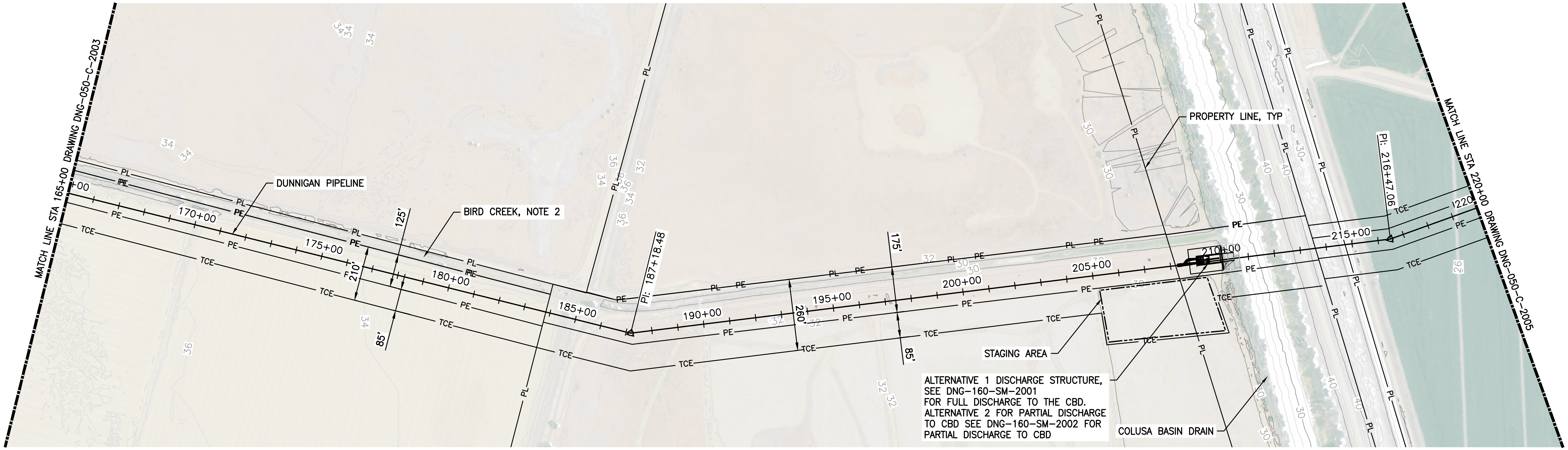
SITES RESERVOIR TO 2
DUNNIGAN PIPELINE – ALTERNATIVES 1 AND 2
PLAN AND PROFILE
STA 110+00 TO 165+00

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
DNG-050-C-2003

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:CAVE, DAVID/RDD -November 9, 2020-3:44:42 PM
DRAWING: DNG-050-C-2003_D3380600.dwg
JACOBS PROJECT # D3880600

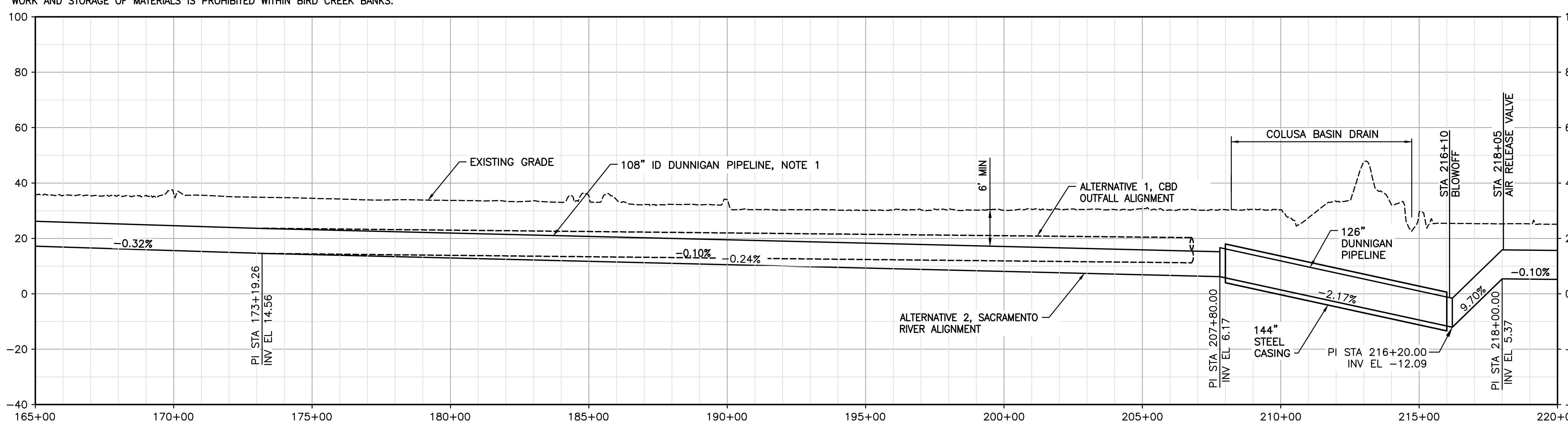


NOTES:

1. ALTERNATIVE 1, 108" ID TO COLUSA BASIN DRAIN IS SHOWN. ALTERNATIVE 2, 126" ID TO SACRAMENTO RIVER.
2. WORK AND STORAGE OF MATERIALS IS PROHIBITED WITHIN BIRD CREEK BANKS.

PLAN
SCALE: 1" = 200'

0 200' 400'
1" = 200'
NORTH



PROFILE
HORIZ SCALE: 1" = 200'
VERT SCALE: 1" = 20'

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: N MASCHKE
DRAWN BY: JP SMITH
CHECKED BY: JF SMITH
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
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PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

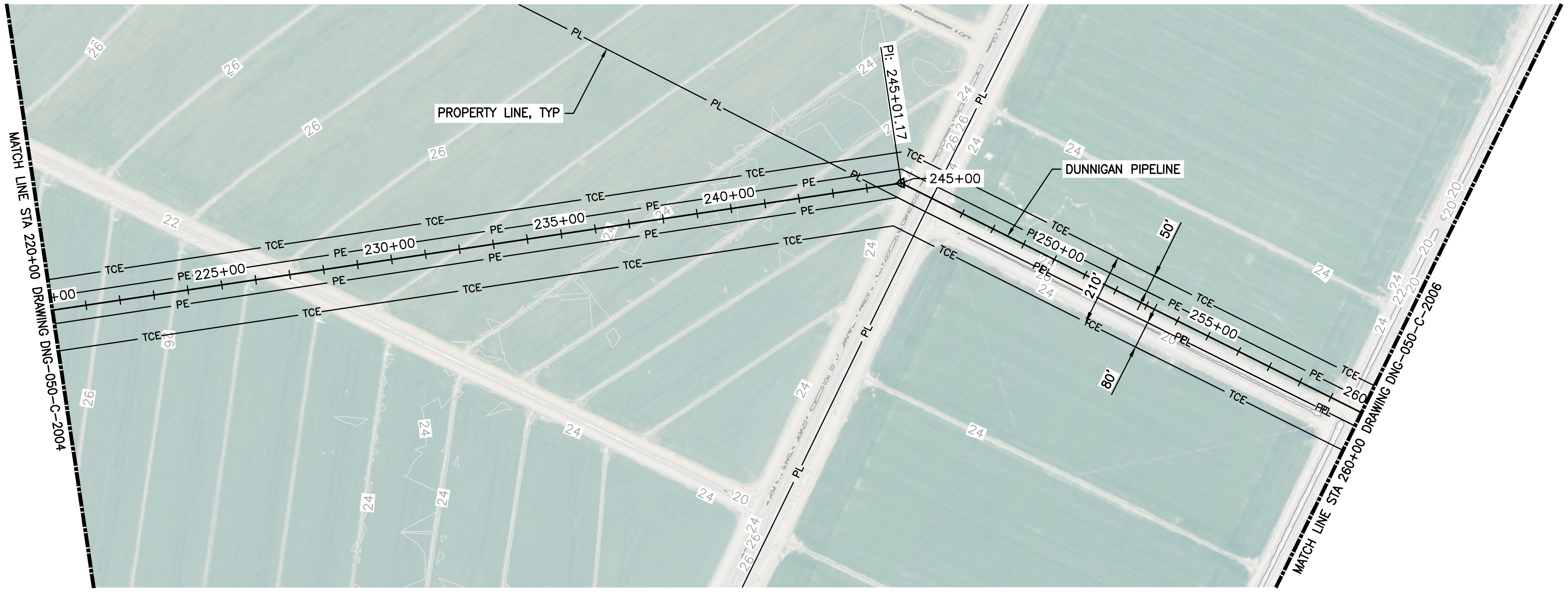
SITES RESERVOIR TO 2
DUNNIGAN PIPELINE – ALTERNATIVES 1 AND 2
PLAN AND PROFILE
STA 165+00 TO 220+00

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
DNG-050-C-2004

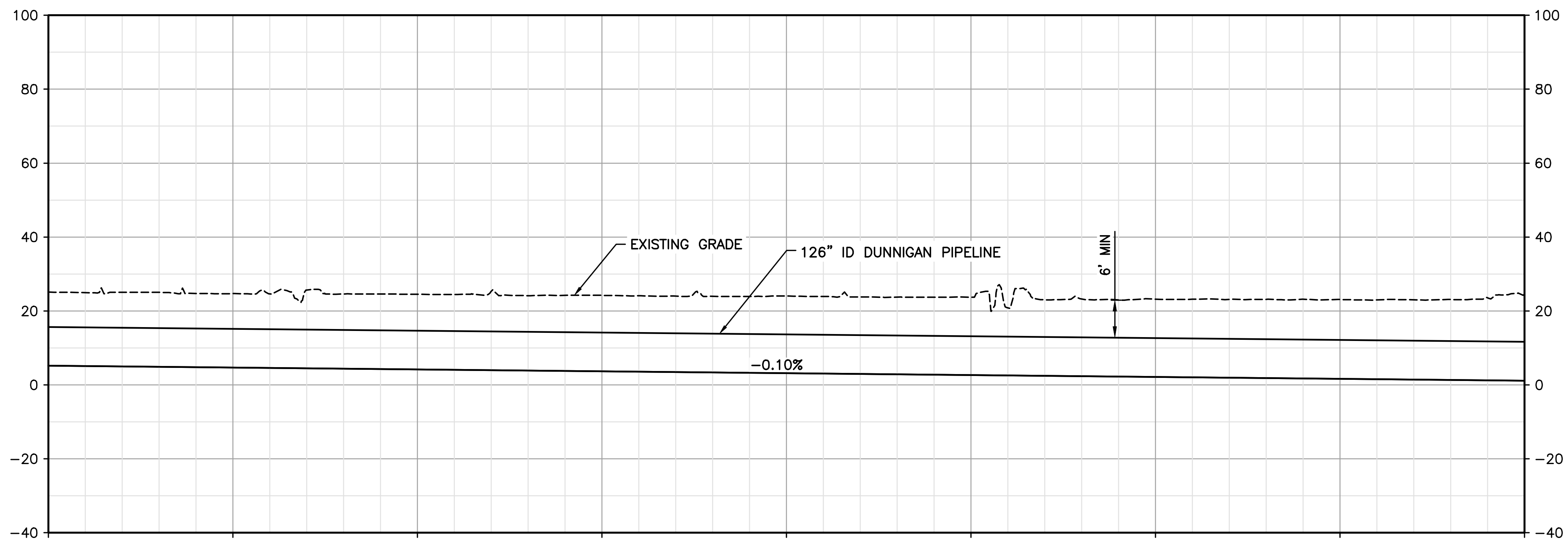
PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:CAVE, DAVID/RDD –November 9, 2020–3:44:42 PM
DRAWING: DNG-050-C-2004_D3380600.dwg
JACOBS PROJECT # D3380600



PLAN
SCALE: 1" = 200'

0 200' 400'
1" = 200'
NORTH



PROFILE
HORIZ SCALE: 1" = 200'
VERT SCALE: 1" = 20'

PLOTTED BY:SMITH, JOEL/RDD –November 4, 2020–3:44:42 PM
DRAWING: DNG-050-C-2005_D3380600.dwg
JACOBS PROJECT # D3880600

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: N MASCHKE
DRAWN BY: JP SMITH
CHECKED BY: JF SMITH
IN CHARGE: P RUDE
DATE: 11-09-2020

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REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

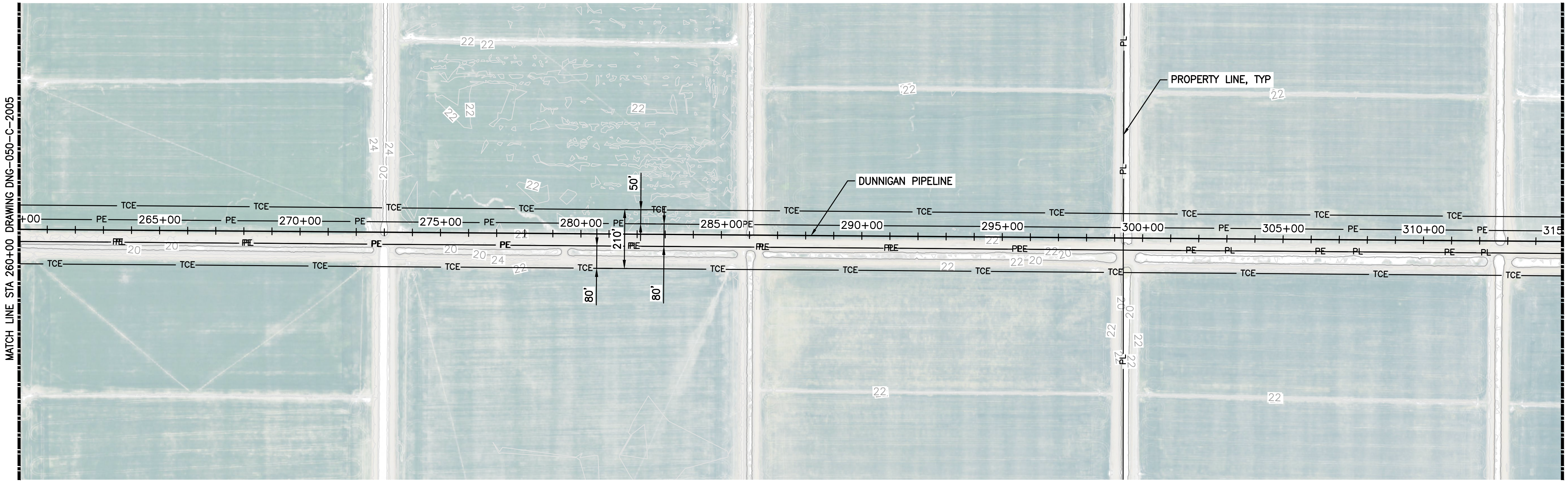
Sites

SITES RESERVOIR TO 2
DUNNIGAN PIPELINE – ALTERNATIVE 2
PLAN AND PROFILE
STA 220+00 TO 260+00

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

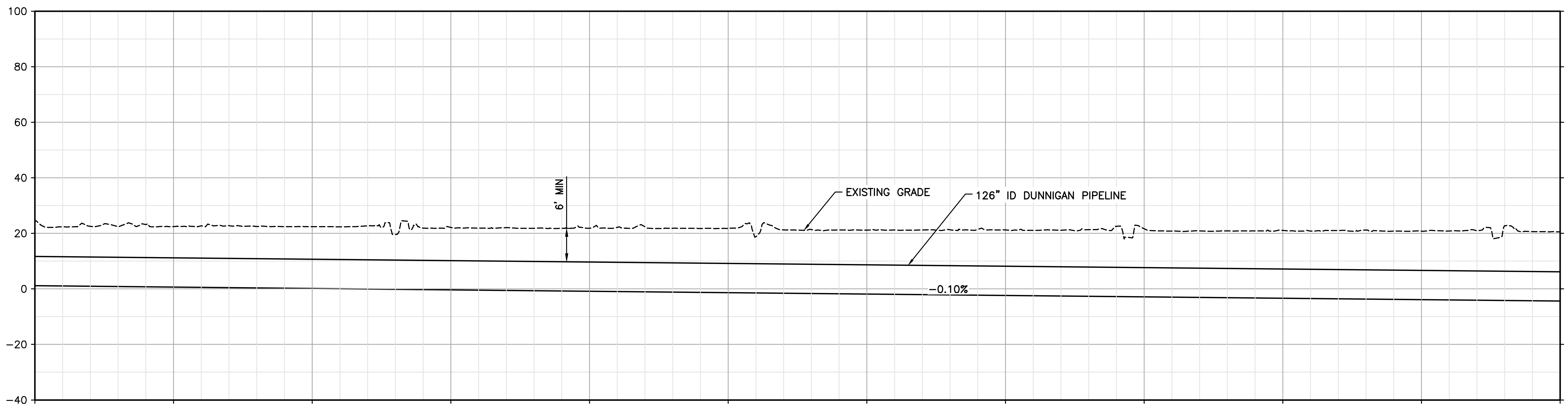
DRAWING NO.
DNG-050-C-2005

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION



PLAN
SCALE: 1" = 200'

0 200' 400'
1" = 200'
NORTH



PROFILE
HORIZ SCALE: 1" = 200'
VERT SCALE: 1" = 20'

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: N MASCHKE
DRAWN BY: JP SMITH
CHECKED BY: JF SMITH
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
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PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

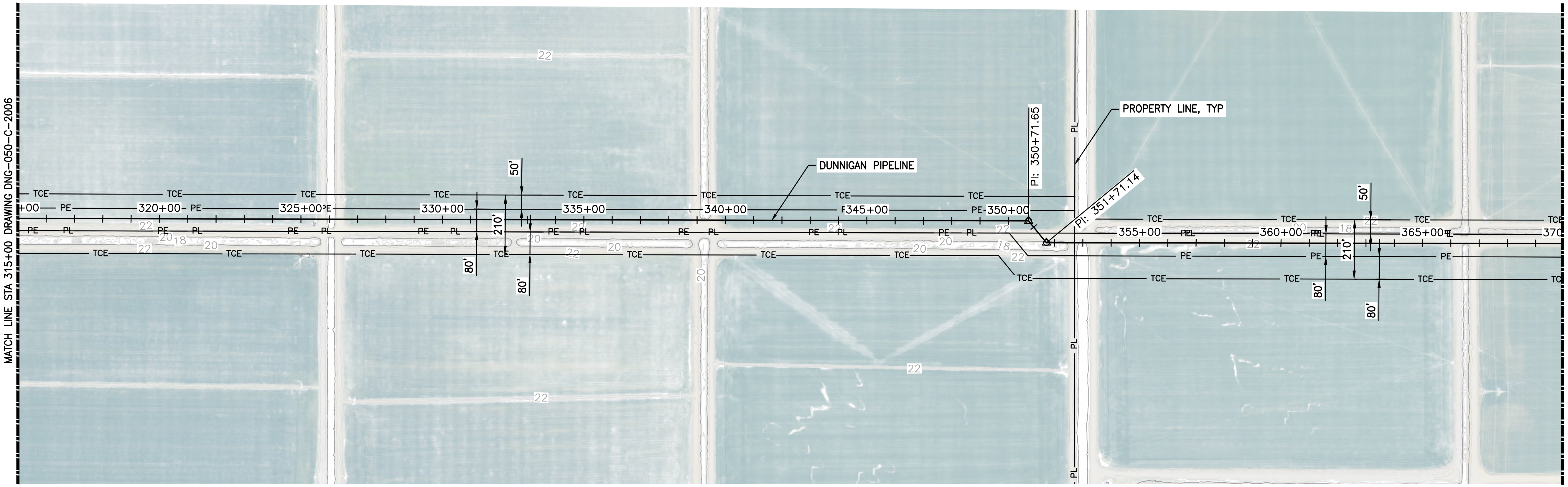
SITES RESERVOIR TO 2
DUNNIGAN PIPELINE – ALTERNATIVE 2
PLAN AND PROFILE
STA 260+00 TO 315+00

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
DNG-050-C-2006

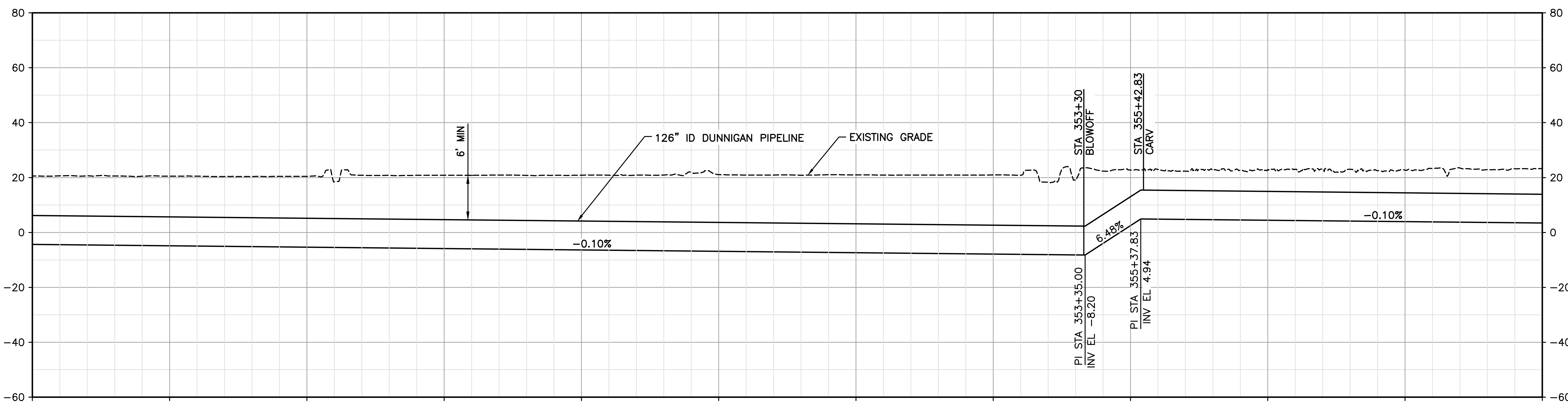
PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:SMITH, JOEL/RDD –November 4, 2020–3:44:42 PM
DRAWING: DNG-050-C-2006_D3380600.dwg
JACOBS PROJECT # D3380600



PLAN
SCALE: 1" = 200'

0 200' 400'
1" = 200'
NORTH



PROFILE
HORIZ SCALE: 1" = 200'
VERT SCALE: 1" = 20'

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:SMITH, JOEL/RDD –November 4, 2020–3:44:42 PM
DRAWING: DNG-050-C-2007_D3380600.dwg
JACOBS PROJECT # D3380600

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY:	N MASCHKE
DRAWN BY:	JP SMITH
CHECKED BY:	JF SMITH
IN CHARGE:	P RUDE
DATE:	11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

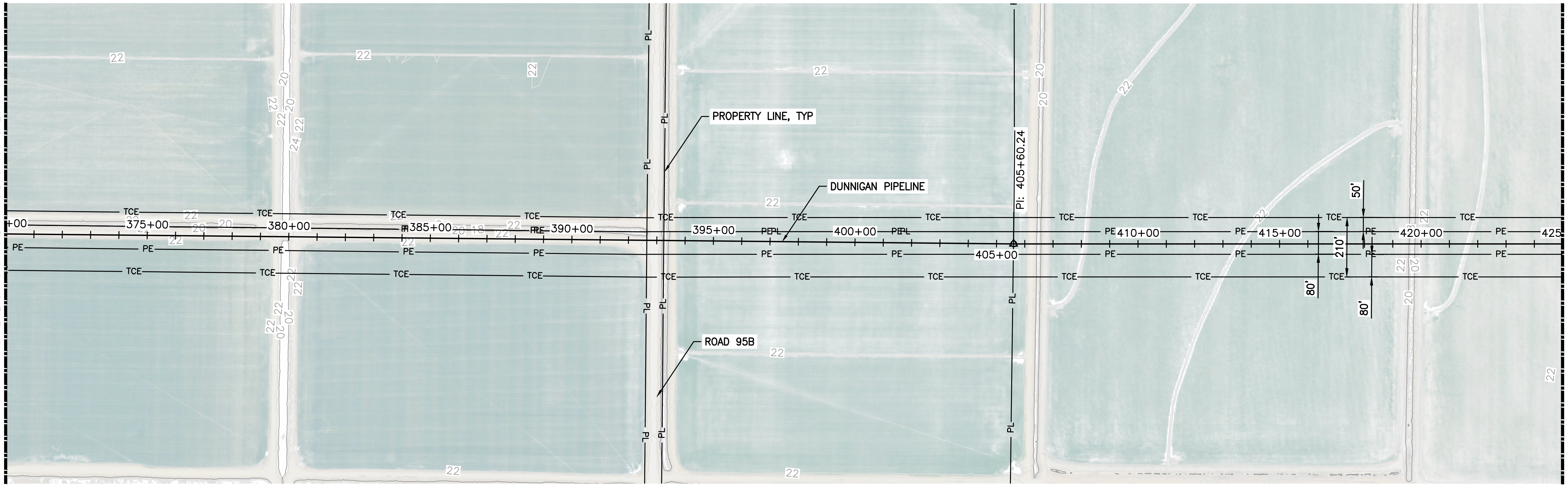
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2
DUNNIGAN PIPELINE – ALTERNATIVE 2
PLAN AND PROFILE
STA 315+00 TO 370+00

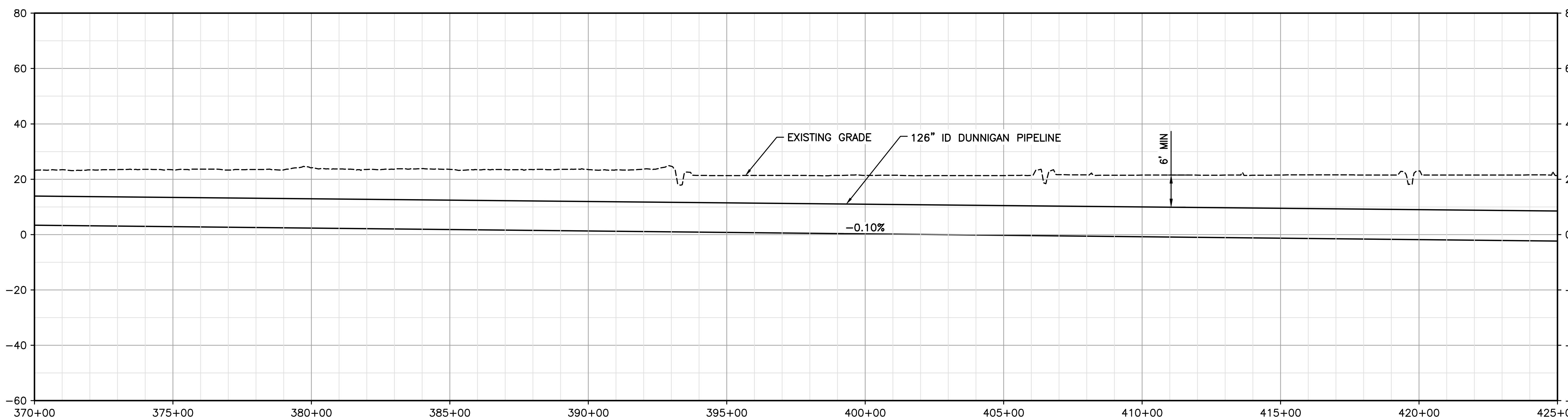
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
DNG-050-C-2007



PLAN
SCALE: 1" = 200'

0 200' 400'
1" = 200'
NORTH



PROFILE
HORIZ SCALE: 1" = 200'
VERT SCALE: 1" = 20'

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: N MASCHKE
DRAWN BY: JP SMITH
CHECKED BY: JF SMITH
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

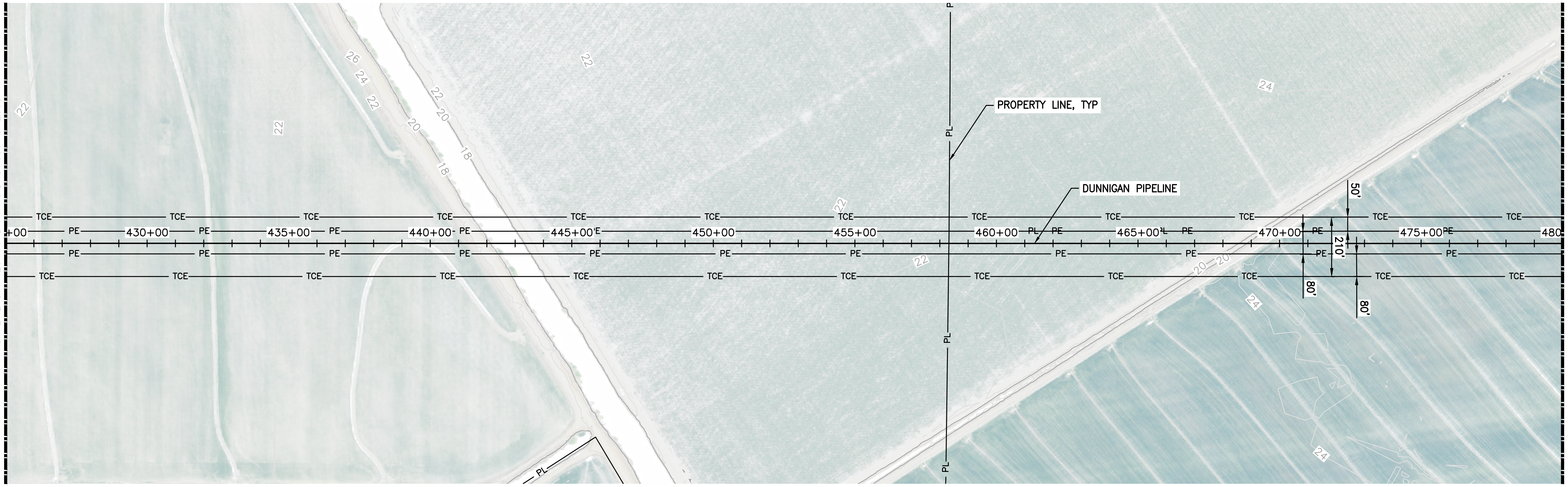
SITES RESERVOIR TO 2
DUNNIGAN PIPELINE – ALTERNATIVE 2
PLAN AND PROFILE
STA 370+00 TO 425+00

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
DNG-050-C-2008

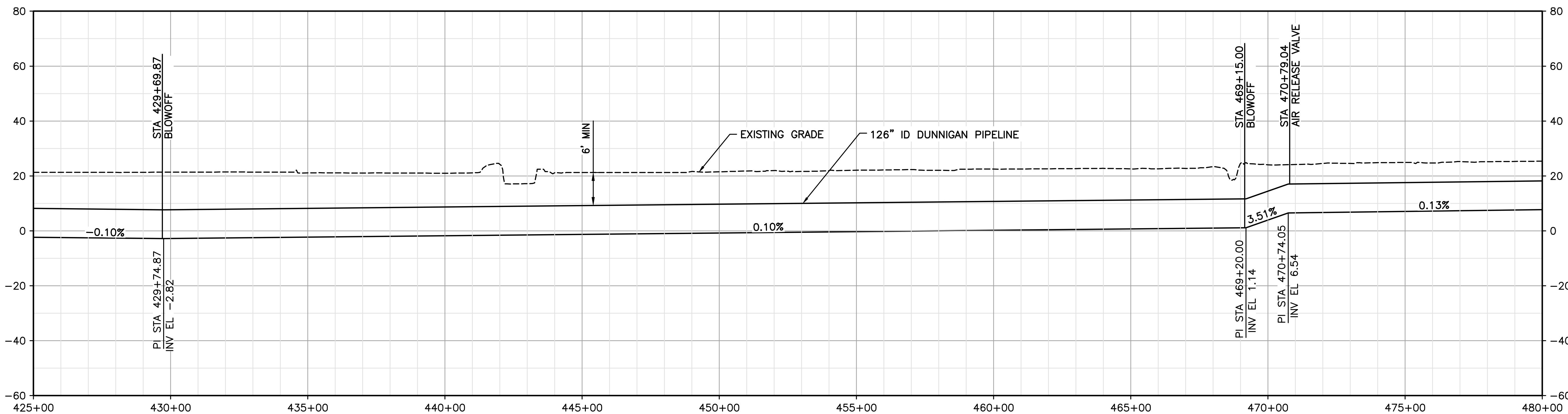
PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:SMITH, JOEL/RDD –November 4, 2020–3:44:42 PM
DRAWING: DNG-050-C-2008_D3380600.dwg
JACOBS PROJECT # D3380600



PLAN
SCALE: 1" = 200'

0 200' 400'
1" = 200'
NORTH



PROFILE
HORIZ SCALE: 1" = 200'
VERT SCALE: 1" = 20'

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: N MASCHKE
DRAWN BY: JP SMITH
CHECKED BY: JF SMITH
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

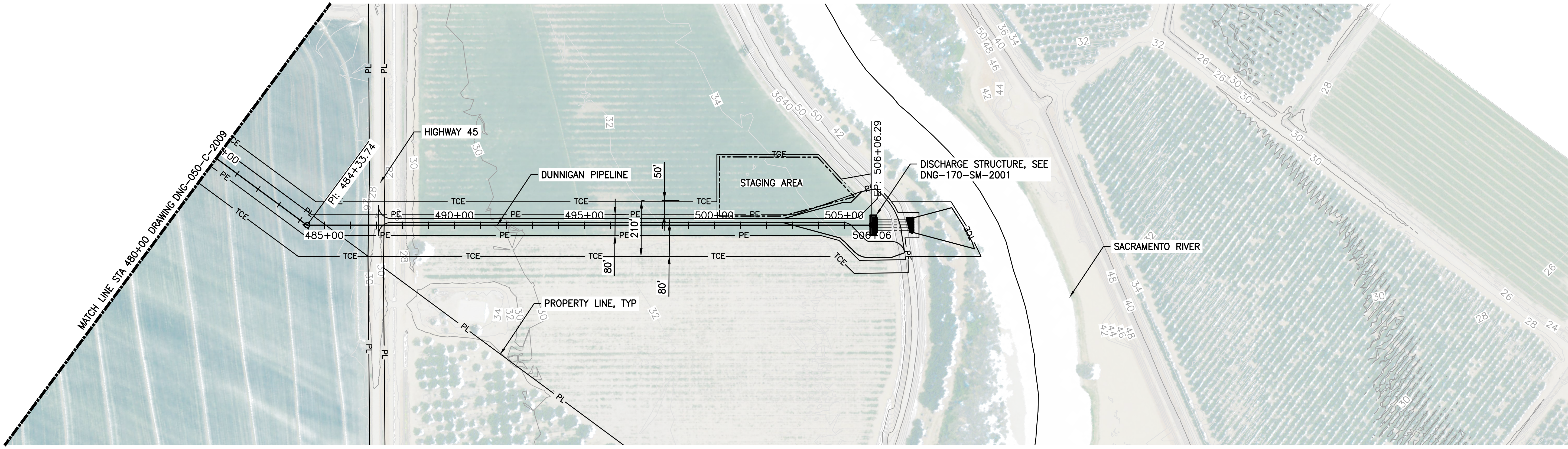
SITES RESERVOIR TO 2
DUNNIGAN PIPELINE – ALTERNATIVE 2
PLAN AND PROFILE
STA 425+00 TO 480+00

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
DNG-050-C-2009

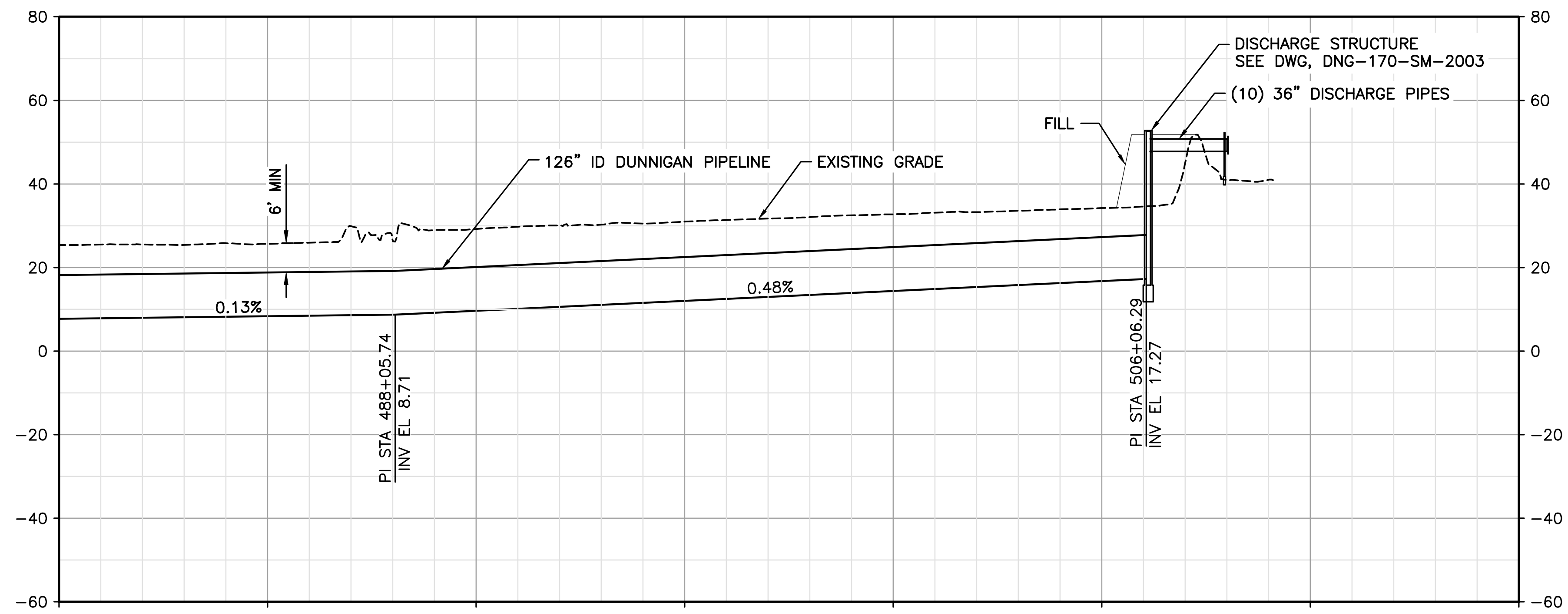
PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:SMITH, JOEL/RDD –November 4, 2020–3:44:42 PM
DRAWING: DNG-050-C-2009_D3380600.dwg
JACOBS PROJECT # D3380600



PLAN
SCALE: 1" = 200'

0 200' 400'
1" = 200'
NORTH



PROFILE
HORIZ SCALE: 1" = 200'
VERT SCALE: 1" = 20'

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: N MASCHKE
DRAWN BY: JP SMITH
CHECKED BY: JF SMITH
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

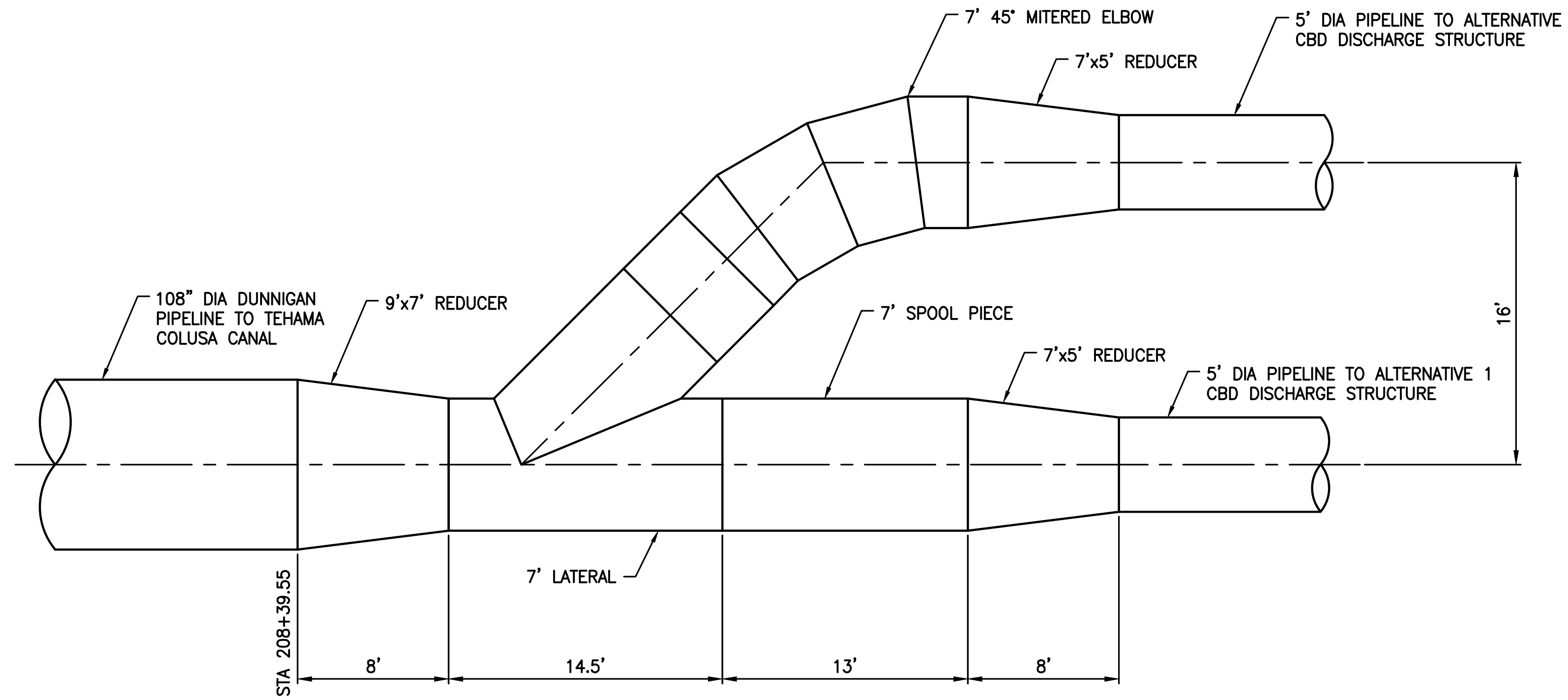
SITES RESERVOIR TO 2
DUNNIGAN PIPELINE – ALTERNATIVE 2
PLAN AND PROFILE
STA 480+00 TO 506+06.29

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
DNG-050-C-2010

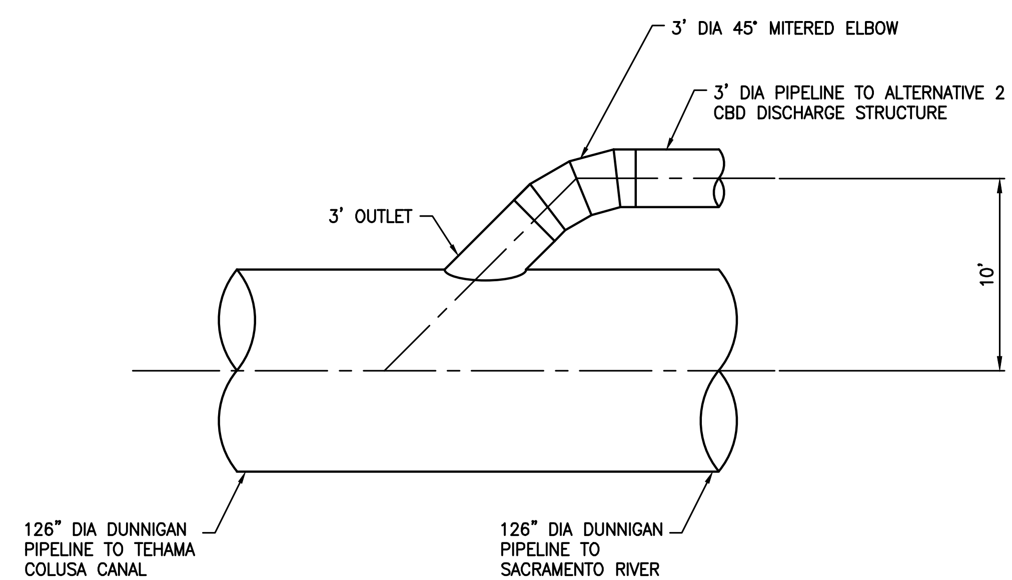
PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:SMITH, JOEL/RDD –November 5, 2020–3:44:42 PM
DRAWING: DNG-050-C-2010_D3380600.dwg
JACOBS PROJECT # D3380600



ALTERNATIVE 1 – CBD PIPELINE CONNECTION

PLAN
HORIZ SCALE: 1" = 5'



ALTERNATIVE 2 – CBD PIPELINE CONNECTION

PLAN
HORIZ SCALE: 1" = 5'

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: N MASCHKE
DRAWN BY: JP SMITH
CHECKED BY: JF SMITH
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
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REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

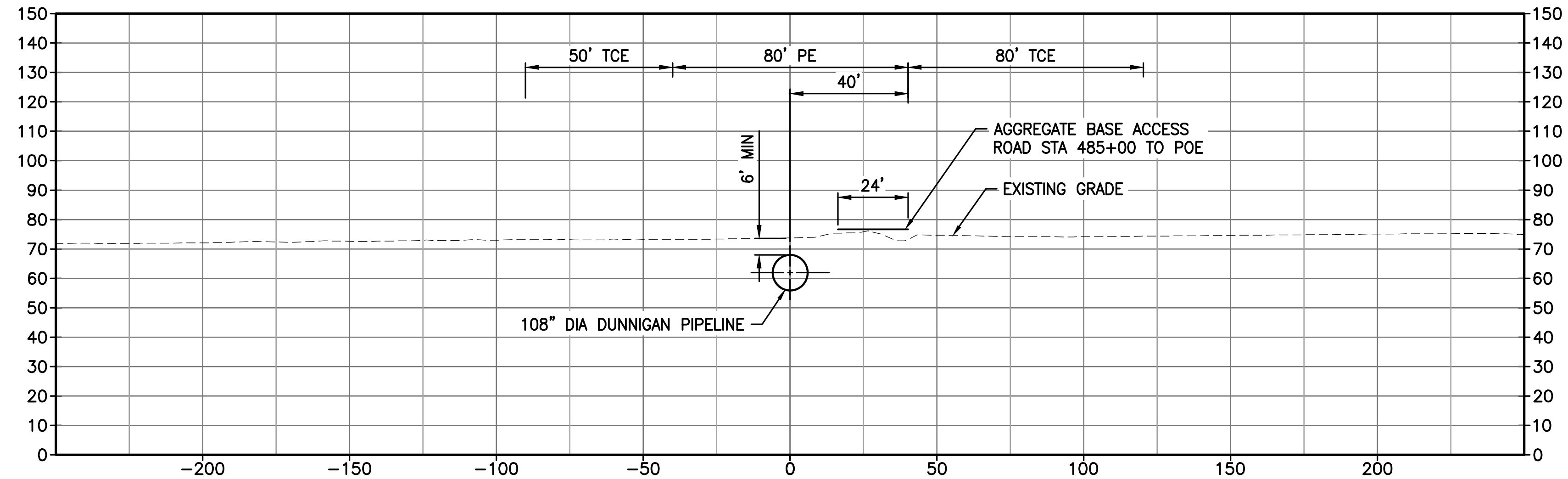
SITES RESERVOIR TO 2
DUNNIGAN PIPELINE – ALTERNATIVES 1 AND 2
CBD PIPELINE CONNECTION
PLANS

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

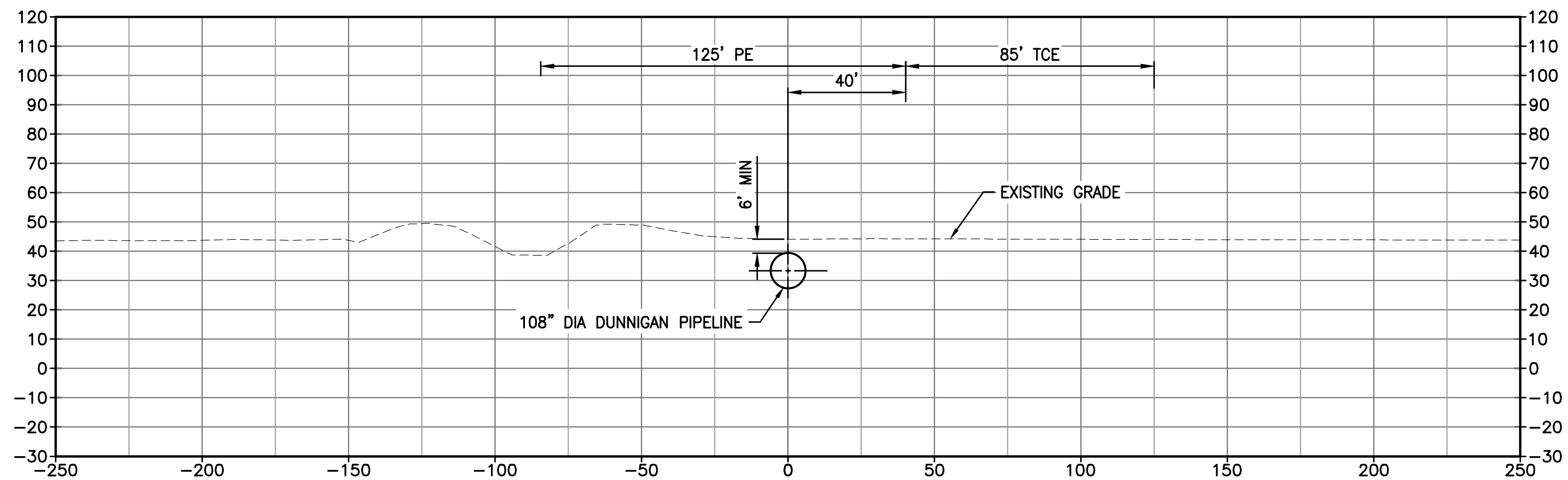
DRAWING NO.
DNG-050-C-2201

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:CAVE, DAVID/RDD –November 9, 2020–3:44:42 PM
DRAWING: DNG-050-C-2201_D3380600.dwg
JACOBS PROJECT # D3380600



A | CROSS SECTION
DNG-050-C-2001 | SCALE: 1" = 30'



B | CROSS SECTION
DNG-050-C-2003 | SCALE: 1" = 30'

PLOTTED BY:CAVE, DAVID/RDD -November 9, 2020-3:44:42 PM
DRAWING: DNG-050-C-3001_D3380600.dwg
JACOBS PROJECT # D3380600

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: N MASCHKE
DRAWN BY: JP SMITH
CHECKED BY: JF SMITH
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
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REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2
DUNNIGAN PIPELINE
CROSS SECTIONS

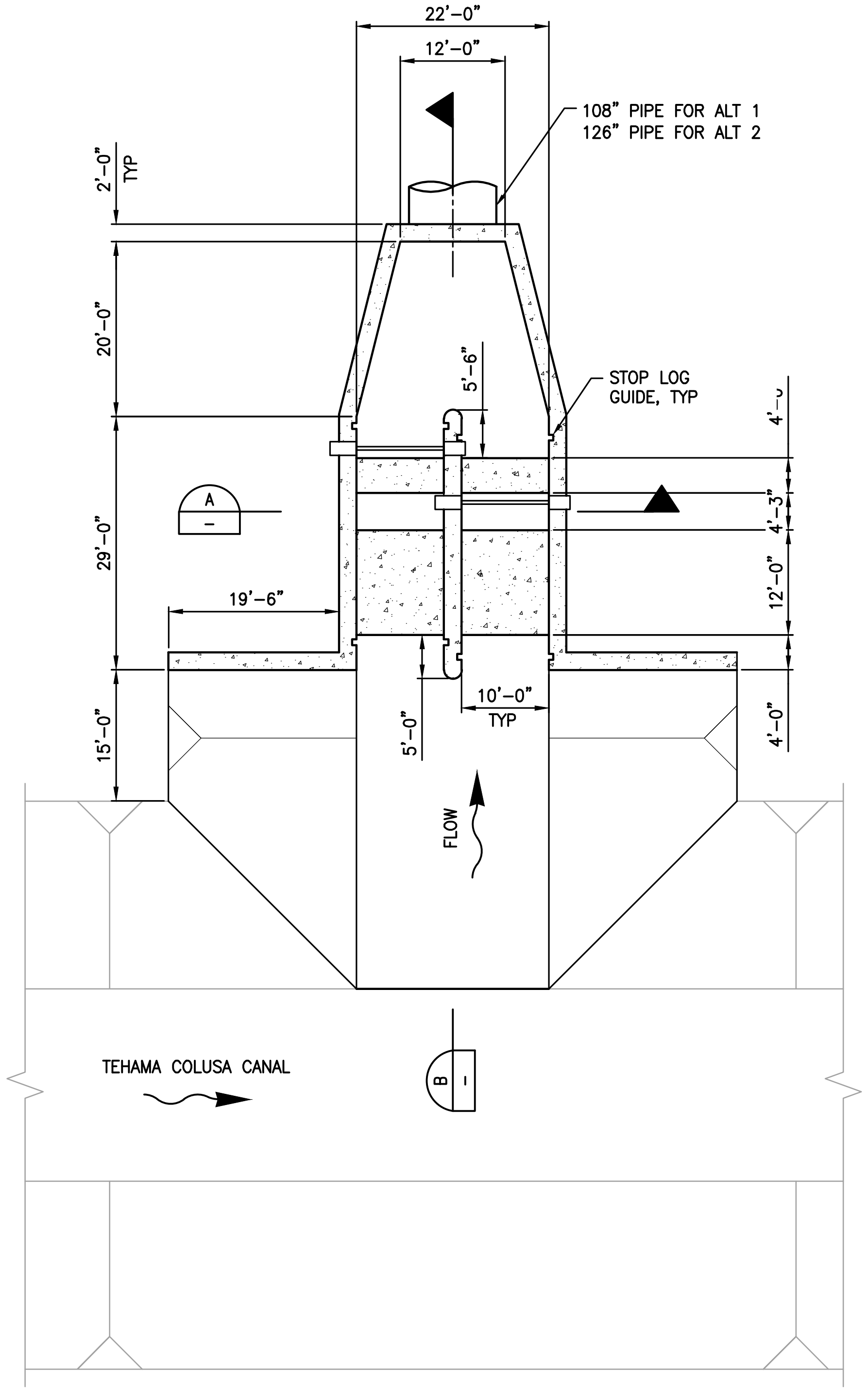
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
DNG-050-C-3001

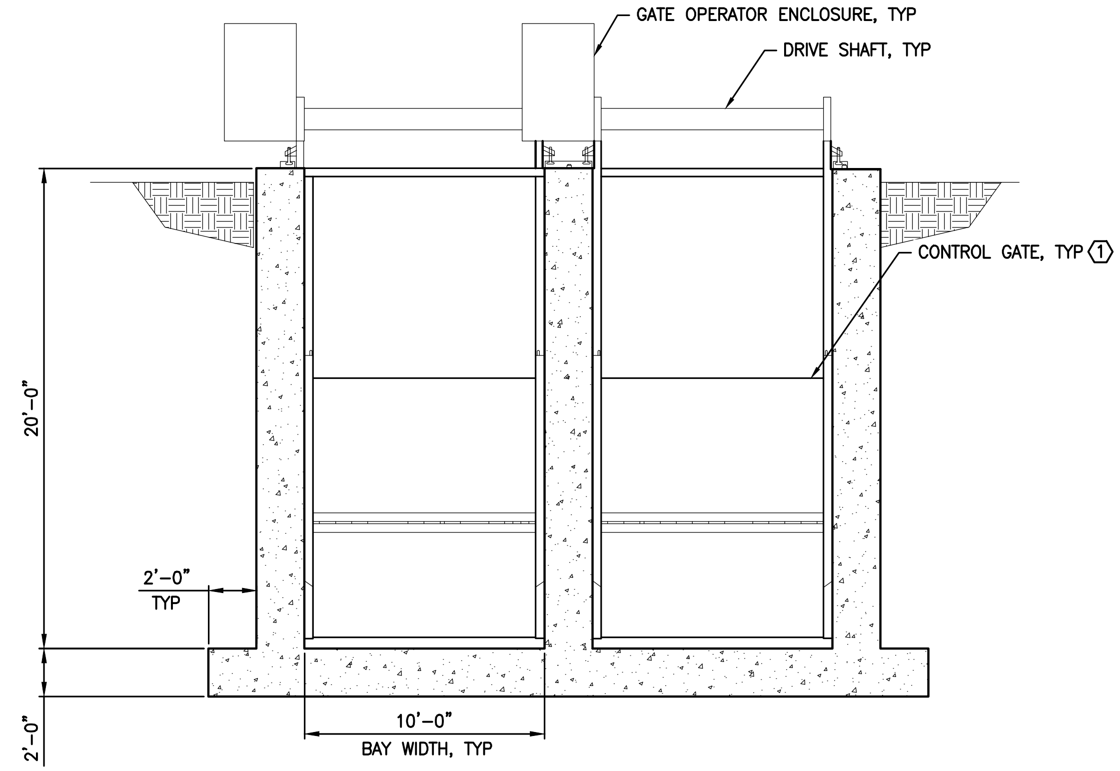
PROJECT FEASIBILITY STUDY — NOT FOR CONSTRUCTION

SHEET KEYNOTES

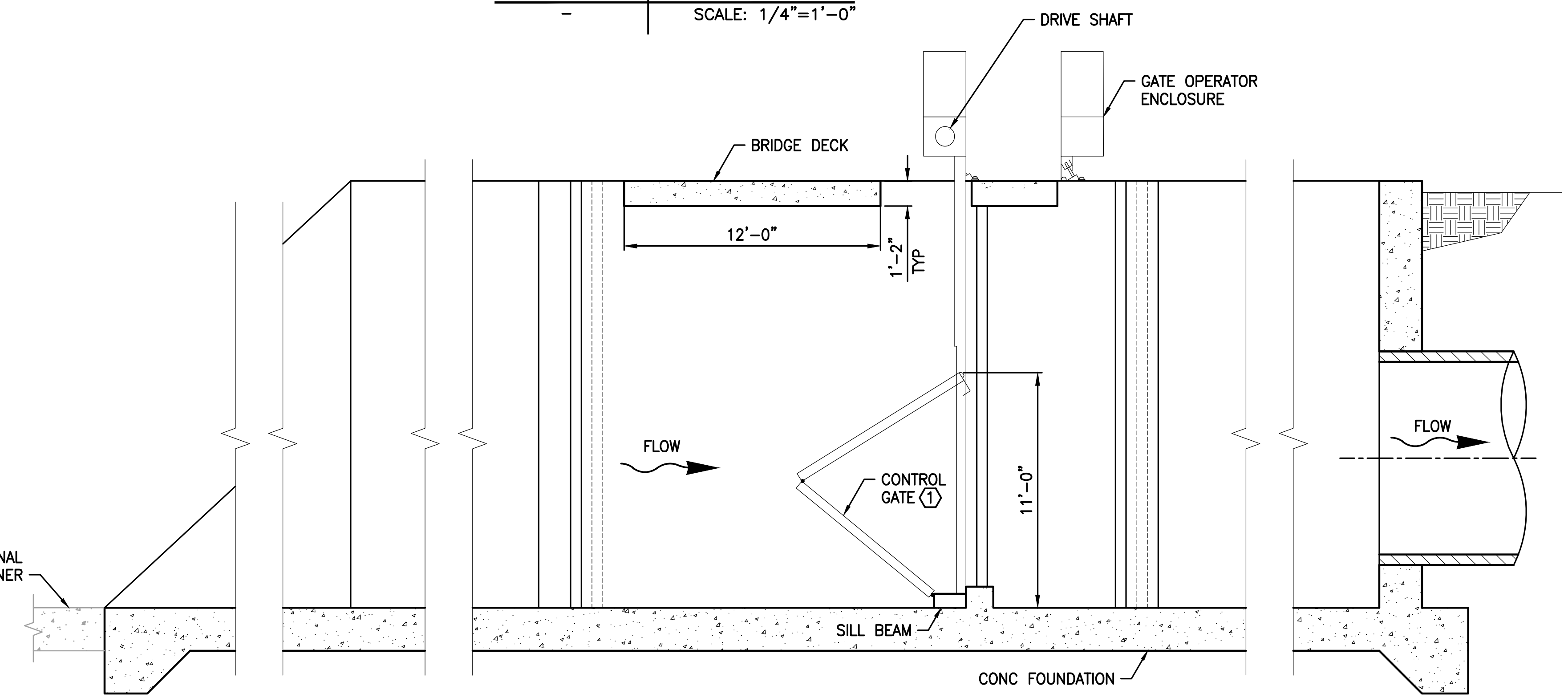
1. INTAKE CONTROL GATE SHALL BE LANGEMANN GATE BY AQUA SYSTEMS 2000, OR APPROVED EQUAL.



PLAN
SCALE: 3/32"=1'-0"
SEE DNG-050-C-2001 FOR LOCATION



SECTION A
SCALE: 1/4"=1'-0"



SECTION B
SCALE: 1/4"=1'-0"

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: KELLOGG/SMITH
DRAWN BY: D CAVE
CHECKED BY: HH / WM
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

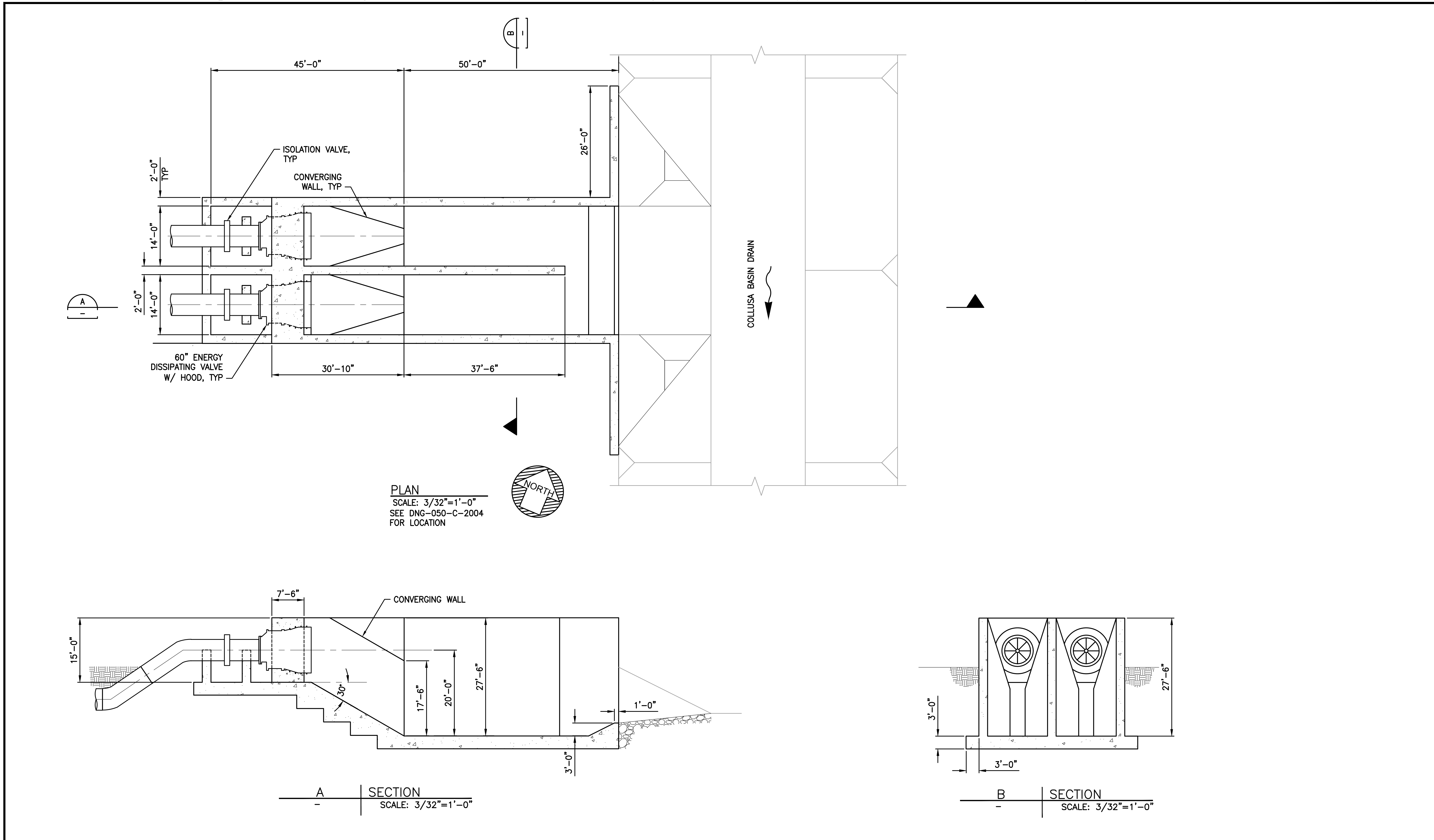
Sites

SITES RESERVOIR TO 2
DUNNIGAN
TCC INTAKE STRUCTURE
PLAN AND SECTIONS

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
DNG-150-SM-2001

PLOTTED BY:CAVE, DAVID/RDD -November 9, 2020-3:44:42 PM
DRAWING: DNG-150-SM-2001_D3380600.dwg
JACOBS PROJECT # D3380600



I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: KELLOGG/SMITH
DRAWN BY: S HAUNG
CHECKED BY: HH / WM
IN CHARGE: P RUDE
DATE: 11-09-2020

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PHONE: (530) 243-5831

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STATE OF CALIFORNIA

Sites

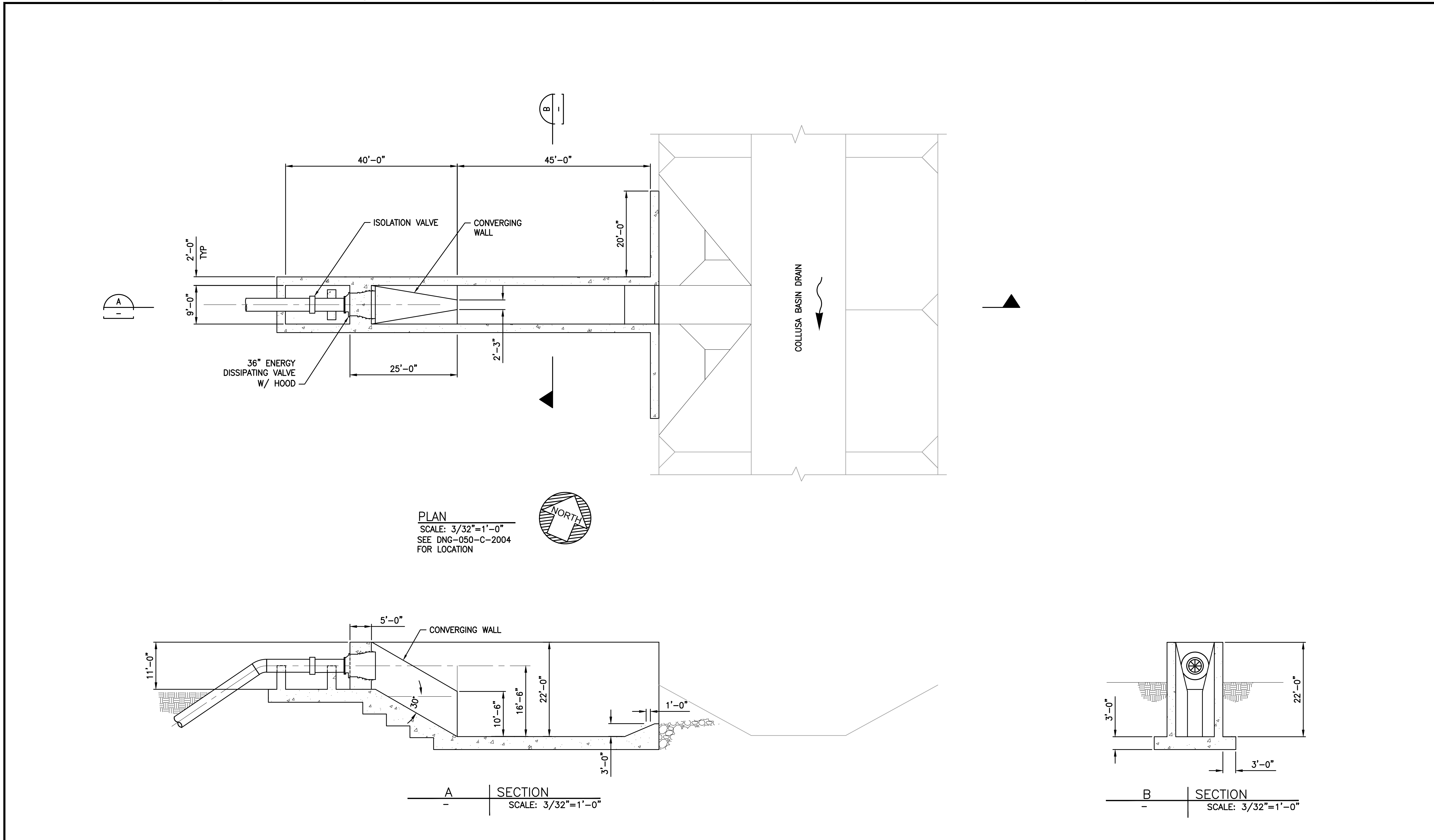
SITES RESERVOIR TO 2
DUNNIGAN – ALTERNATIVE 1
CBD DISCHARGE STRUCTURE
PLAN AND SECTIONS

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
DNG-160-SM-2001

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:CAVE, DAVID/RDD –November 5, 2020–3:44:42 PM
DRAWING: DNG-160-SM-2001_D3380600.dwg
JACOBS PROJECT # D3380600



I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: KELLOGG/SMITH
DRAWN BY: S METCALF
CHECKED BY: HH / WM
IN CHARGE: P RUDE
DATE: 11-09-2020

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STATE OF CALIFORNIA

Sites

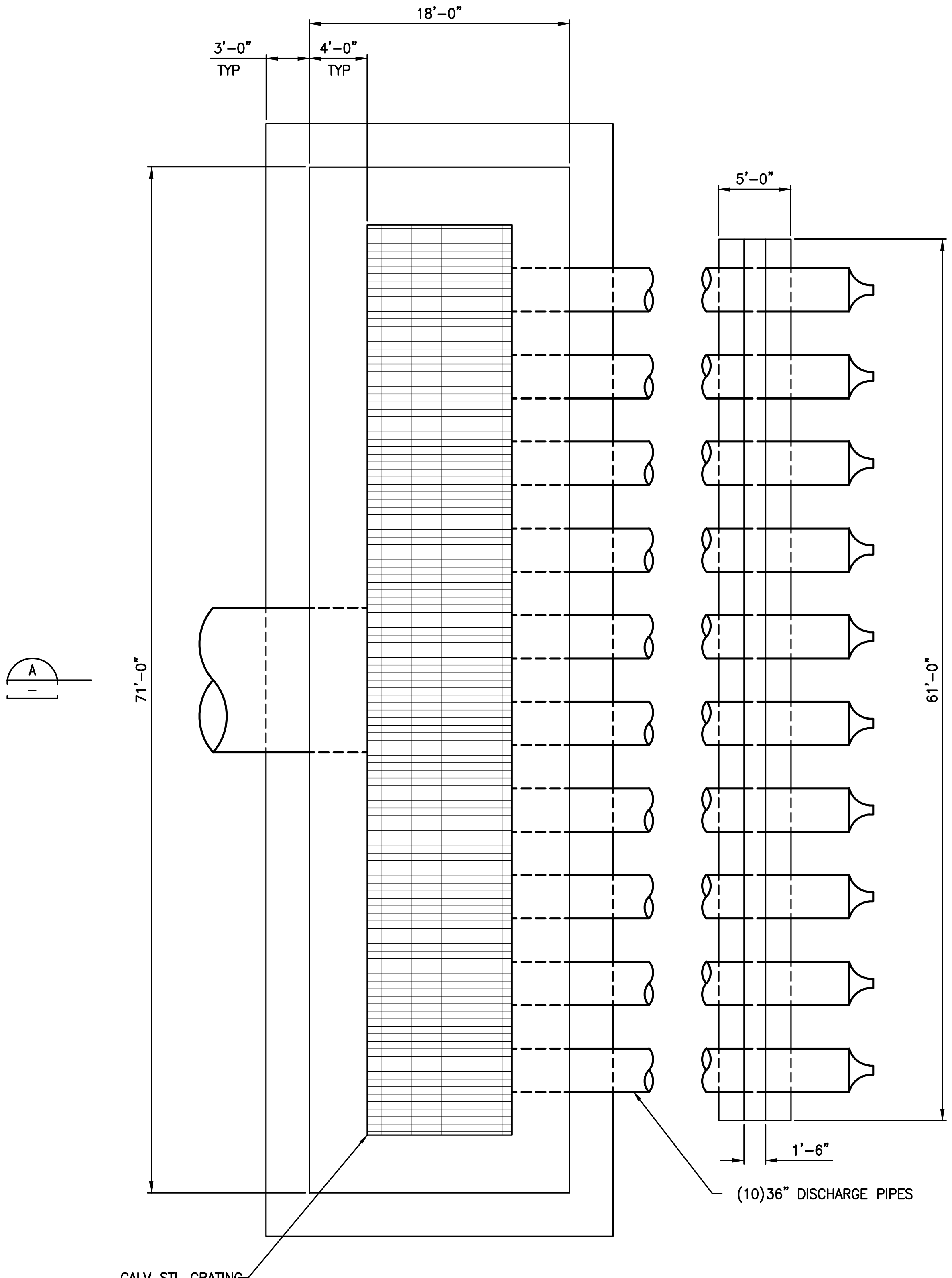
SITES RESERVOIR TO 2
DUNNIGAN – ALTERNATIVE 2
CBD DISCHARGE STRUCTURE
PLAN AND SECTIONS

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

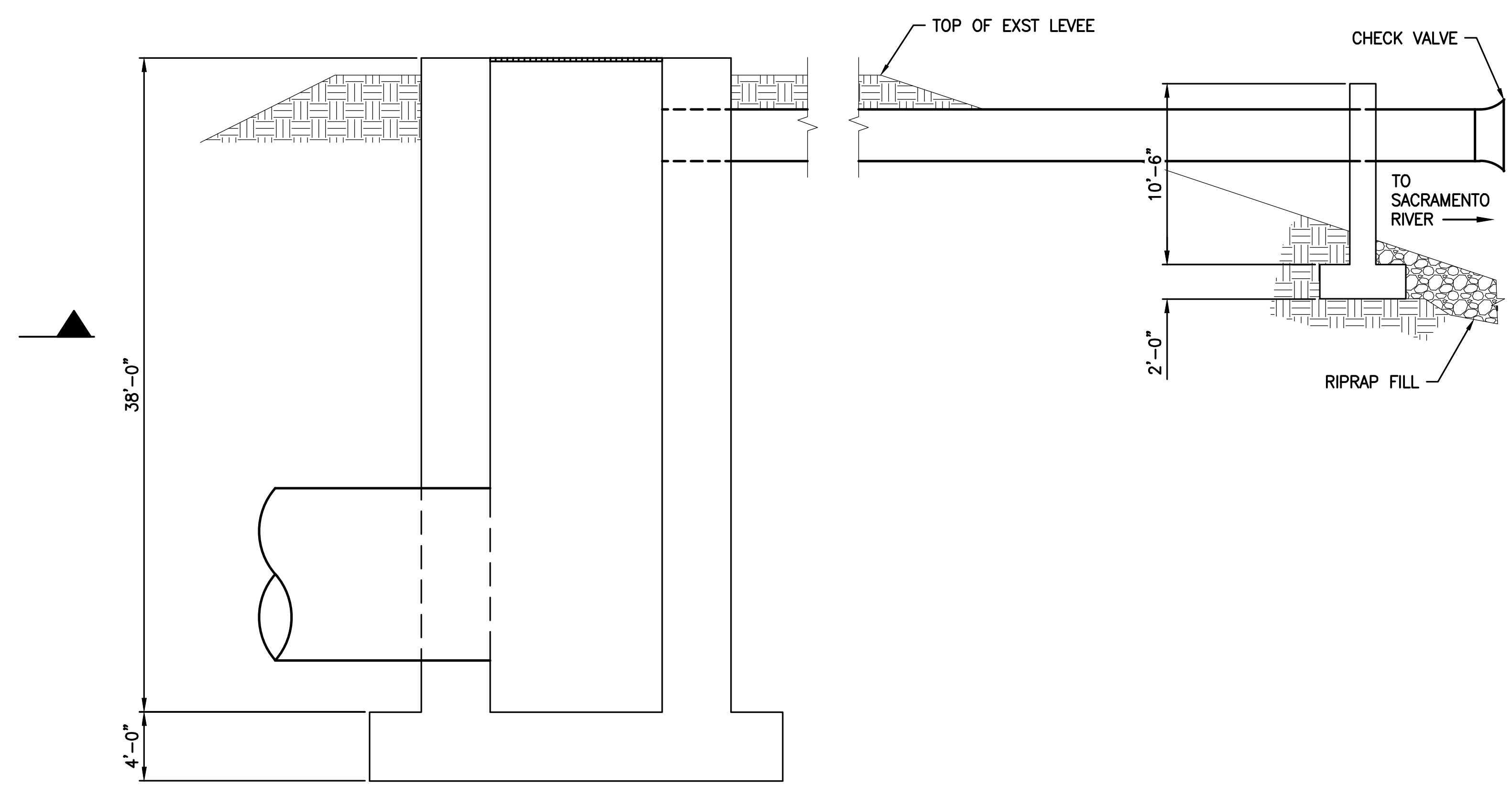
DRAWING NO.
DNG-160-SM-2002

PLOTTED BY:CAVE, DAVID/RDD –November 5, 2020–3:44:42 PM
DRAWING: DNG-160-SM-2002_D3380600.dwg
JACOBS PROJECT # D3380600

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION



PLAN
SCALE: 3/16"=1'-0"



A – SECTION
SCALE: 3/16"=1'-0"

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: KELLOGG/SMITH
DRAWN BY: S METCALF
CHECKED BY: HH / WM
IN CHARGE: P RUDE
DATE: 11-09-2020

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REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2
DUNNIGAN – ALTERNATIVE 2
SAC RIVER DISCHARGE STRUCTURE
PLAN AND SECTION

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
DNG-160-SM-2003

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

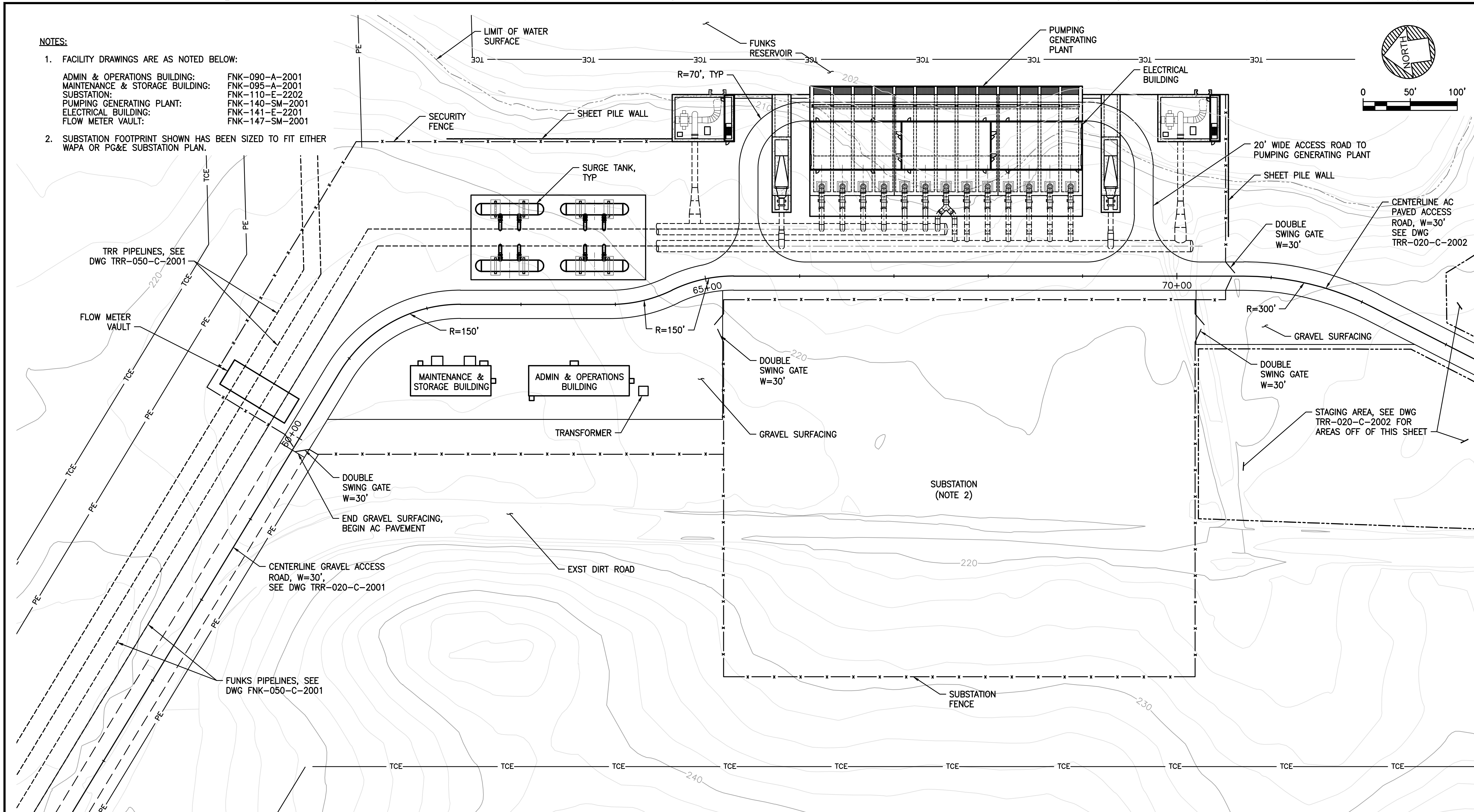
PLOTTED BY:CAVE, DAVID/RDD –November 5, 2020–3:44:42 PM
DRAWING: DNG-160-SM-2003_D3380600.dwg
JACOBS PROJECT # D3380600

NOTES:

1. FACILITY DRAWINGS ARE AS NOTED BELOW:

ADMIN & OPERATIONS BUILDING:	FNK-090-A-2001
MAINTENANCE & STORAGE BUILDING:	FNK-095-A-2001
SUBSTATION:	FNK-110-E-2202
PUMPING GENERATING PLANT:	FNK-140-SM-2001
ELECTRICAL BUILDING:	FNK-141-E-2201
FLOW METER VAULT:	FNK-147-SM-2001

2. SUBSTATION FOOTPRINT SHOWN HAS BEEN SIZED TO FIT EITHER WAPA OR PG&E SUBSTATION PLAN.



PLAN
SCALE: 1" = 50'

PROJECT FEASIBILITY STUDY — NOT FOR CONSTRUCTION

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: B CHELONIS
DRAWN BY: K BISHOP
CHECKED BY: J SMITH
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

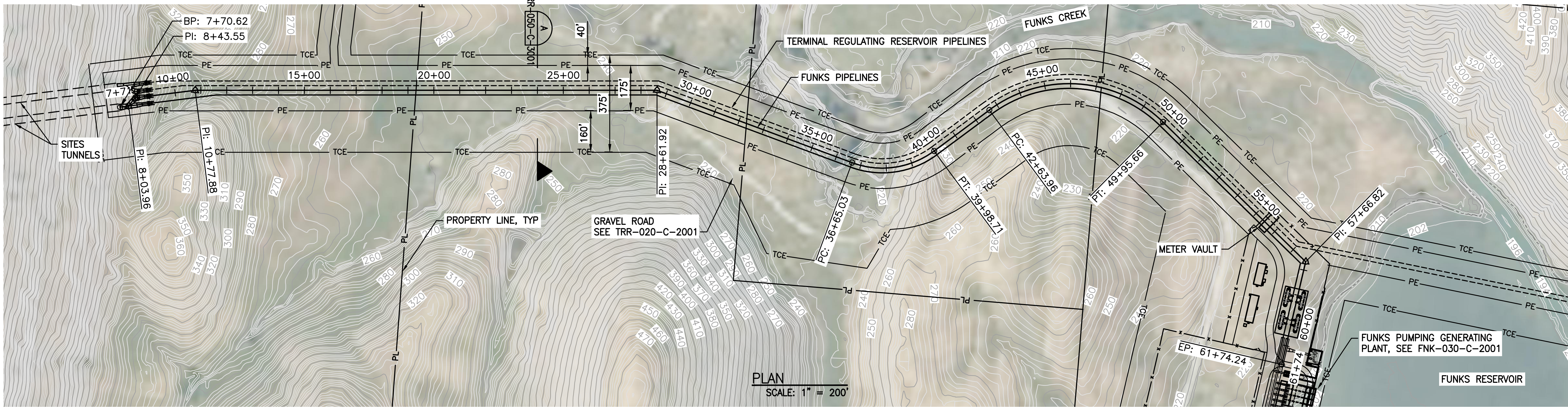
Sites

SITES RESERVOIR TO 2
FUNKS RESERVOIR
PUMPING GENERATING PLANT
SITE PLAN

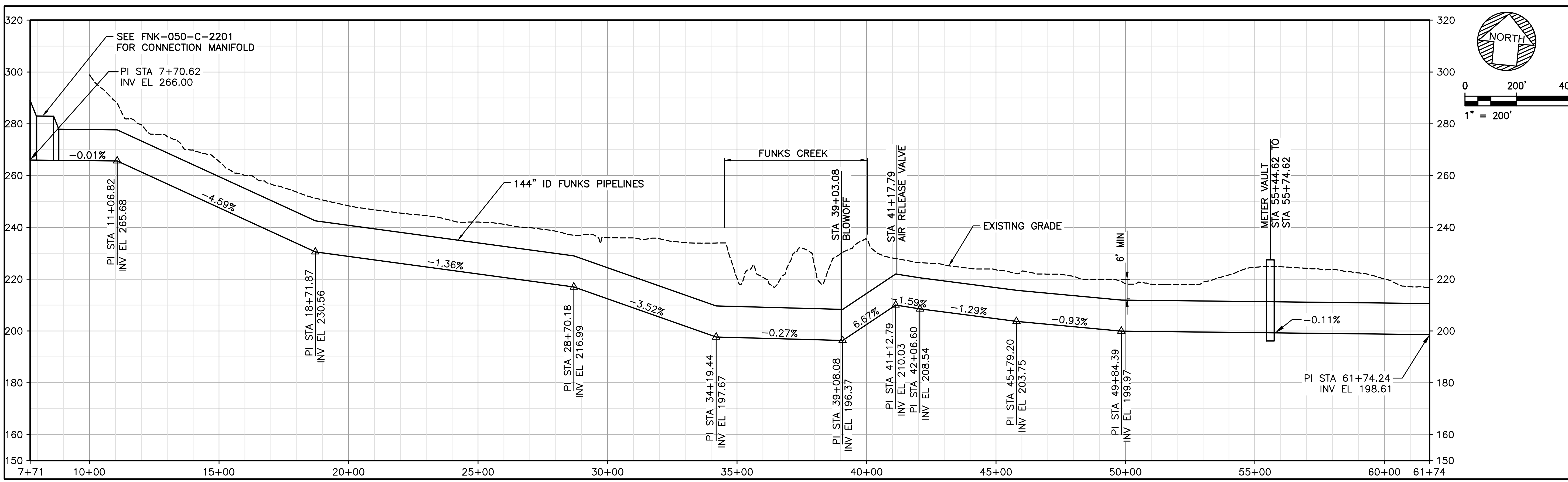
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
FNK-030-C-2201

PLOTTED BY:CHELONIS, BECKY/RDD -November 5, 2020-3:44:42 PM
DRAWING: FNK-030-C-2201_D3380600.dwg
JACOBS PROJECT # D3880600



PLAN
SCALE: 1" = 200'



PROFILE
HORIZ SCALE: 1" = 200'
VERT SCALE: 1" = XX'

PROJECT FEASIBILITY STUDY — NOT FOR CONSTRUCTION

PLOTTED BY:SMITH, JOEL/RDD -November 5, 2020-3:44:42 PM
DRAWING: FNK-050-C-2001_D3380600.dwg
JACOBS PROJECT # D3380600

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: N MASCHKE
DRAWN BY: JP SMITH
CHECKED BY: JF SMITH
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
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REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

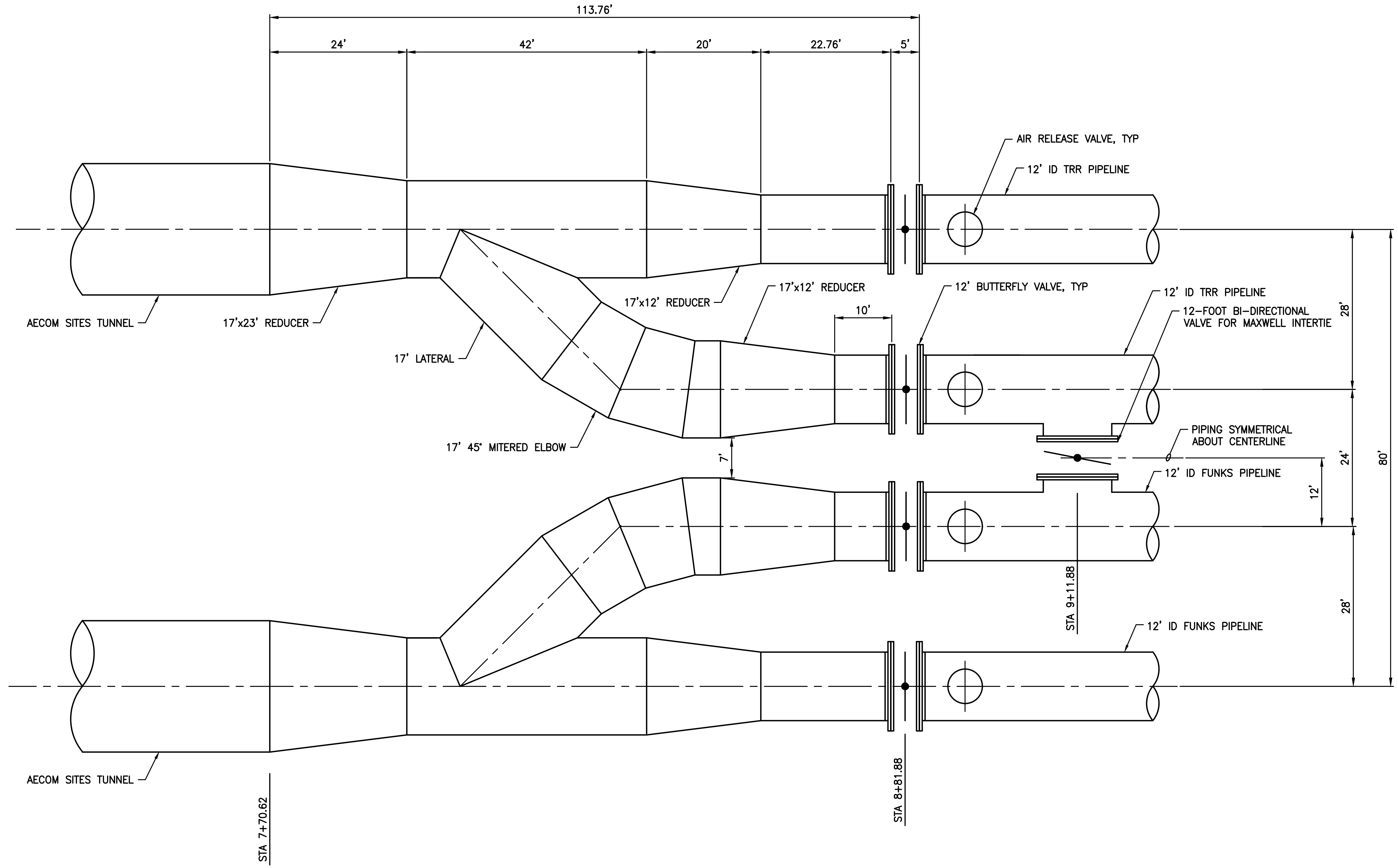
Sites

SITES RESERVOIR TO 2
FUNKS PIPELINE
PLAN AND PROFILE
STA 10+00 TO 61+74

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
FNK-050-C-2001

PLOTTED BY:CAVE, DAVID/RDD –November 9, 2020–3:44:42 PM
DRAWING: FNK–050–C–2201_D3380600.dwg
JACOBS PROJECT # D3880600



PIPELINE CONNECTIONS

PLAN
HORIZ SCALE: 1" = 10'

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: N MASCHKE
DRAWN BY: JP SMITH
CHECKED BY: JF SMITH
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
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REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

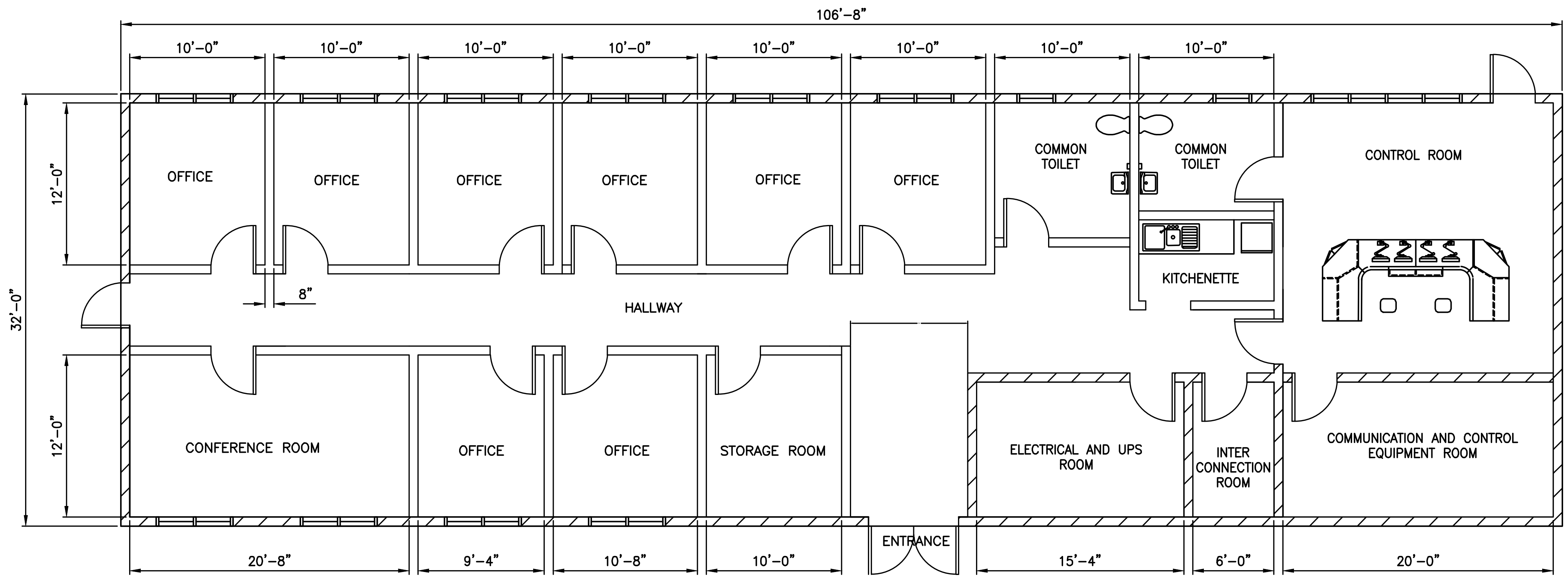
Sites

SITES RESERVOIR TO 2
FUNKS AND TRR EAST PIPELINES
CONNECTION MANIFOLD
PLAN

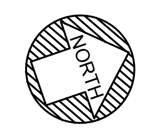
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

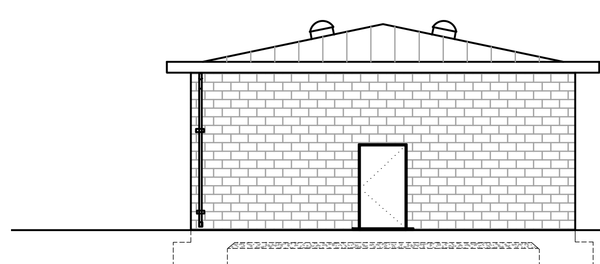
DRAWING NO.
FNK–050–C–2201

PROJECT FEASIBILITY STUDY — NOT FOR CONSTRUCTION

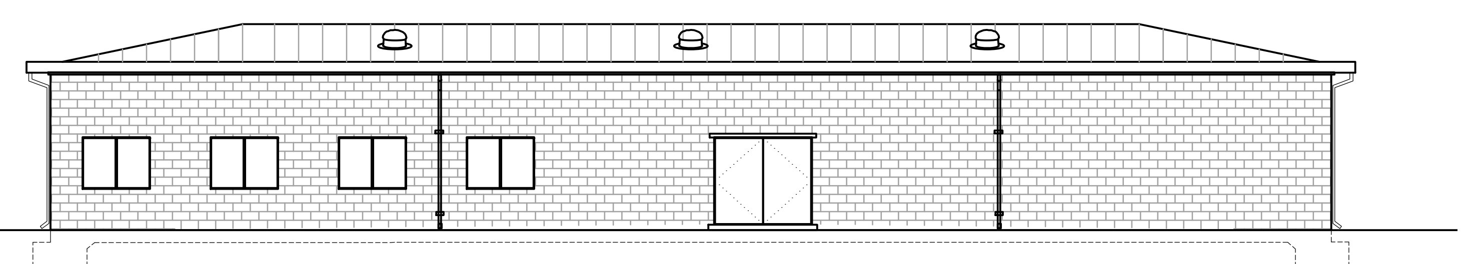


PLAN
SCALE: 1/8"=1'-0"

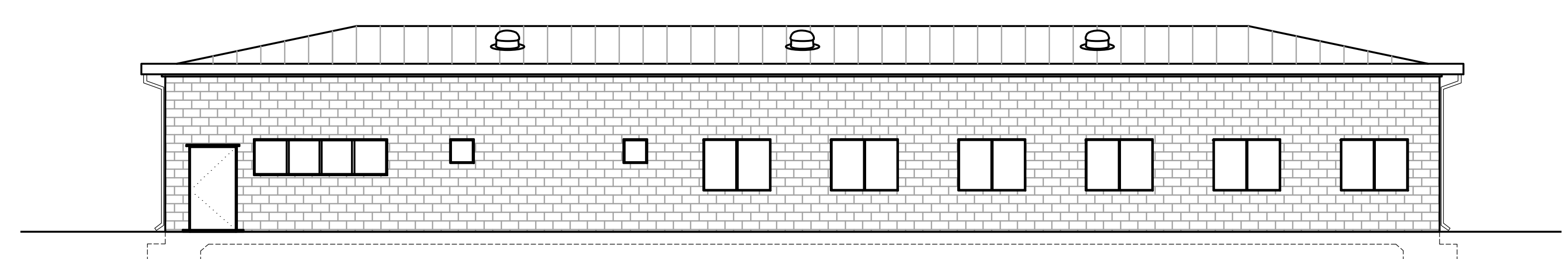




ELEVATION LOOKING NORTH
SCALE: 3/16"=1'-0"



ELEVATION LOOKING WEST
SCALE: 3/16"=1'-0"



ELEVATION LOOKING EAST
SCALE: 3/16"=1'-0"

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: J SMITH
DRAWN BY: D CAVE
CHECKED BY:
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
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REDDING CA, 96001
PHONE: (530) 243-5831

Sites

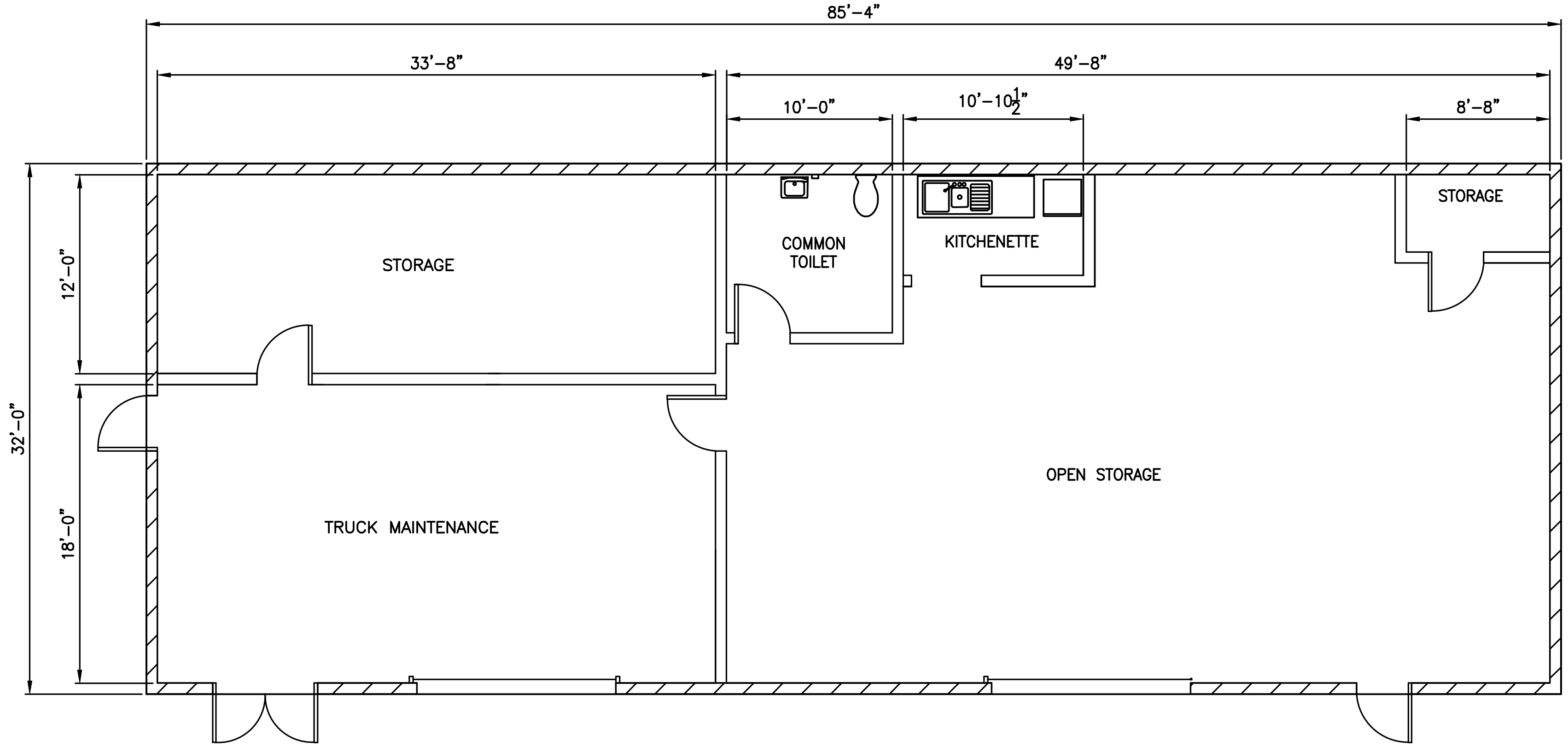
SITES RESERVOIR TO 2
FUNKS RESERVOIR
ADMINISTRATION AND OPERATIONS BUILDING
PLAN AND ELEVATIONS

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

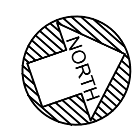
DRAWING NO.
FNK-090-A-2001

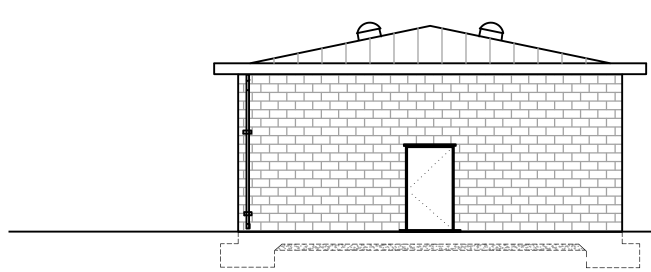
PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:CAVE, DAVID/RDD –November 5, 2020–3:44:42 PM
DRAWING: FNK-090-A-2001_D3380600.dwg
JACOBS PROJECT # D3380600

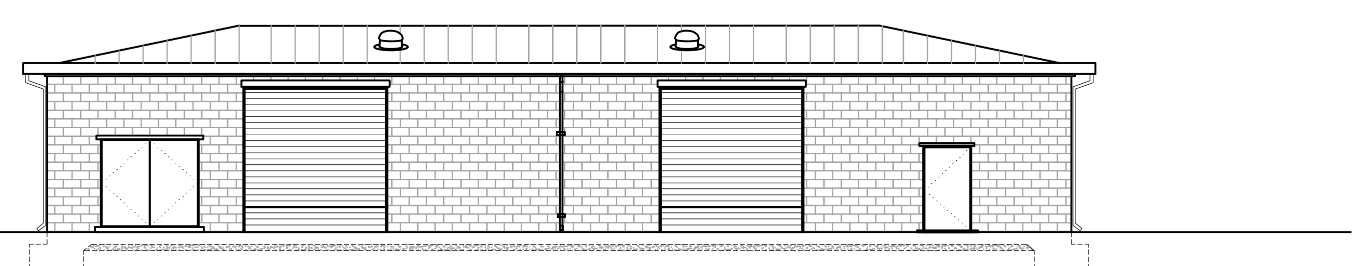


PLAN
SCALE: 3/16"=1'–0"





ELEVATION LOOKING NORTH
SCALE: 1/8"=1'–0"



ELEVATION LOOKING WEST
SCALE: 1/8"=1'–0"

PLOTTED BY:CAVE, DAVID/RDD –November 5, 2020–3:44:42 PM
DRAWING: FNK–095–A–2001_D3380600.dwg
JACOBS PROJECT # D3380600

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: J SMITH
DRAWN BY: D CAVE
CHECKED BY:
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

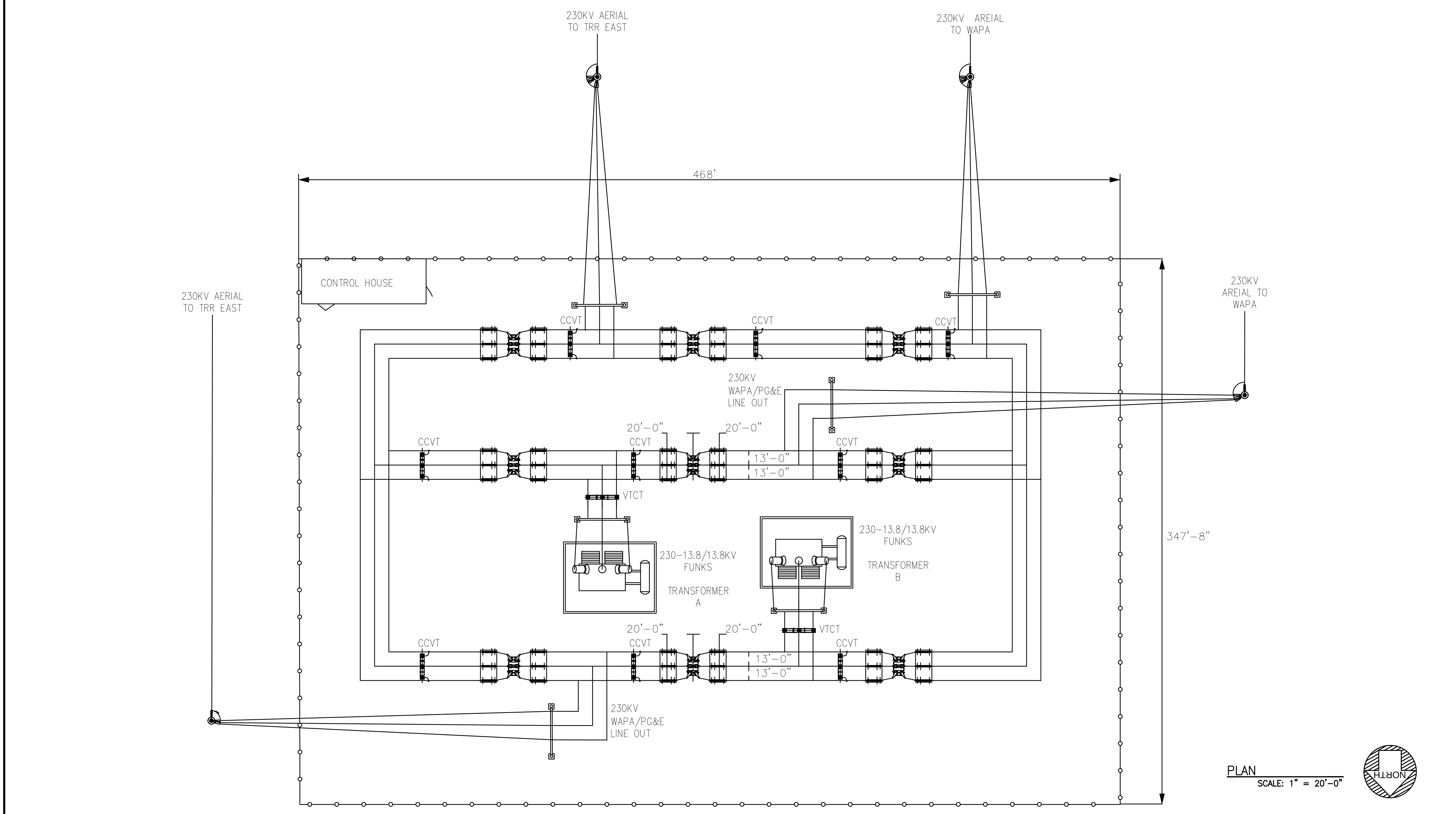
Sites

SITES RESERVOIR TO 2
FUNKS RESERVOIR
MAINTENANCE AND STORAGE BUILDING
PLAN AND ELEVATIONS

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
FNK-095-A-2001

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION



PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:RASHEED, ASIF –November 5, 2020–3:44:42 PM
DRAWING: FNK–110–E–2201_D3380600.dwg
JACOBS PROJECT # D3380600

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: S WEGIEL
DRAWN BY: A RASHEED
CHECKED BY: S WEGIEL
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
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REDDING CA, 96001
PHONE: (530) 243-5831

VANDERWEIL POWER GROUP

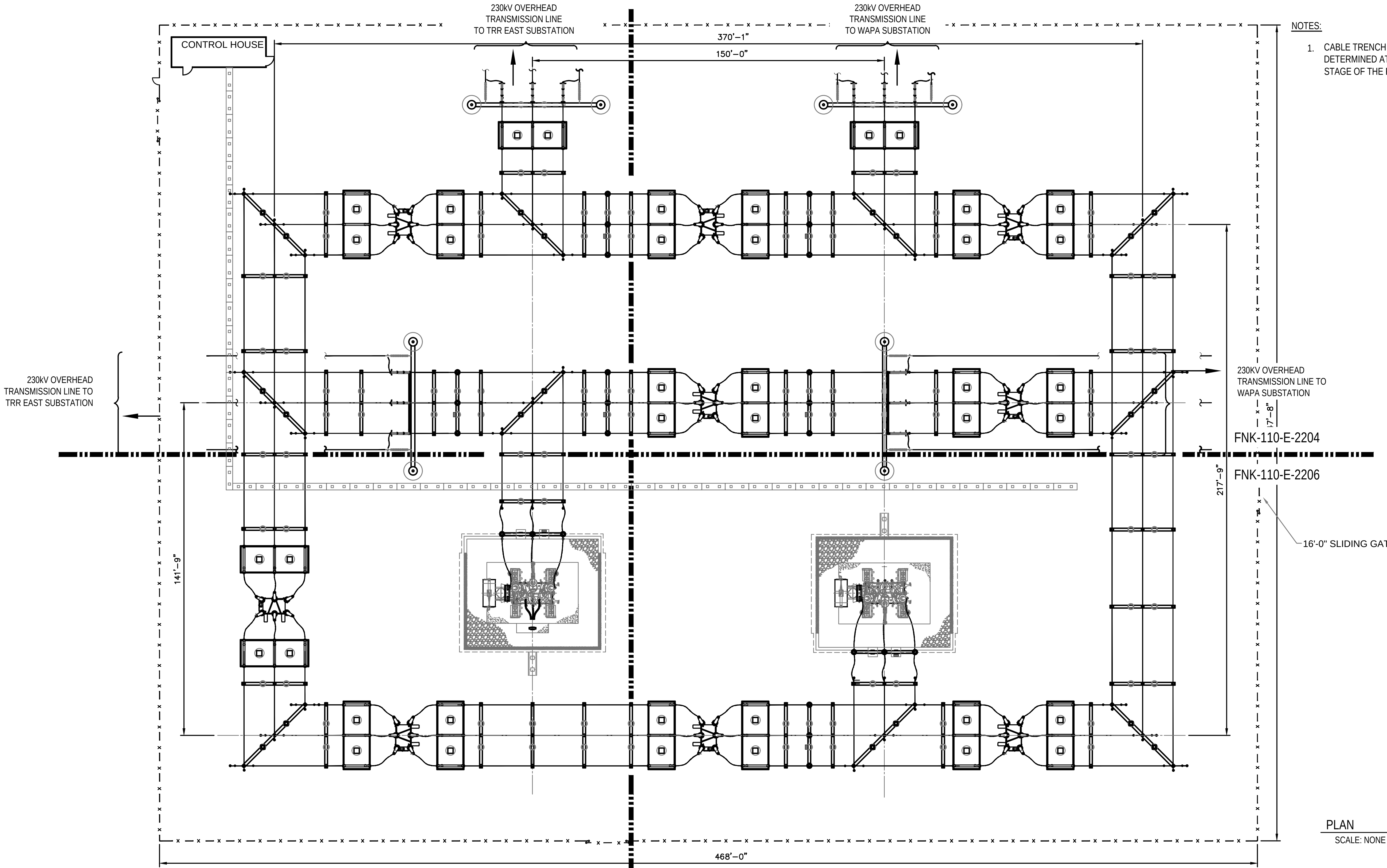
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2
FUNKS RESERVOIR
WAPA
SUBSTATION PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
FNK-110-E-2201



NOTES:

1. CABLE TRENCH DESIGN TO BE DETERMINED AT THE DETAILED DESIGN STAGE OF THE PROJECT

PLAN
SCALE: NONE

NORTH

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: J RUSSO
DRAWN BY: J RUSSO
CHECKED BY: S WEGIEL
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

VANDERWEIL POWER GROUP

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

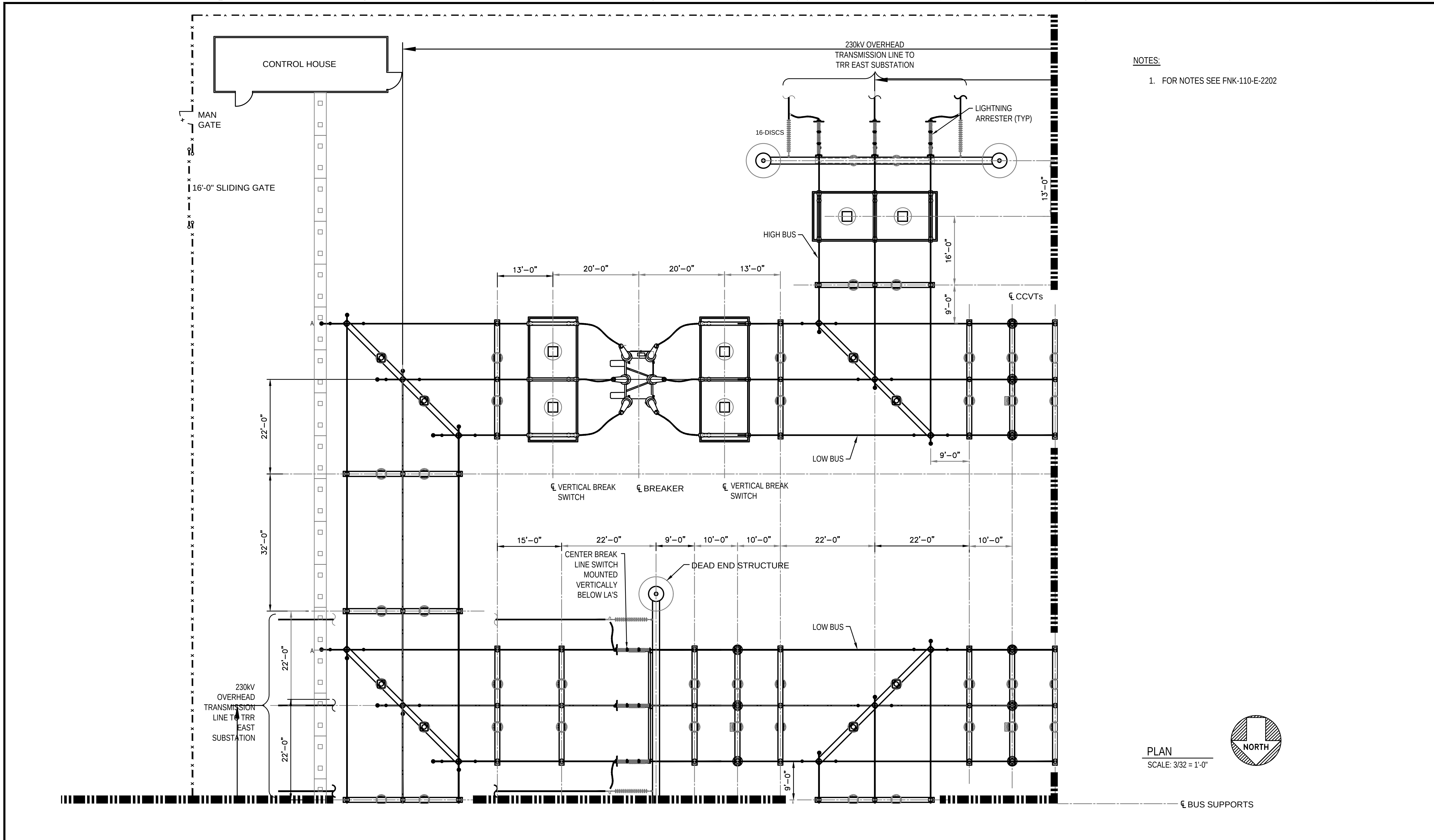
Sites

SITES RESERVOIR TO 2
FUNKS RESERVOIR
230KV SUBSTATION
FUNKS SUBSTATION EQUIPMENT PLAN KEY PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
FNK–110–E–2202

PLOTTED BY:HATCH, CHRISTIAN –November 6, 2020–3:44:42 PM
DRAWING: FNK–110–E–2202_D3380600.dwg
JACOBS PROJECT # D3880600



PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:HATCH, CHRISTIAN –November 6, 2020–3:44:42 PM
DRAWING: FNK-110-E-2203_D3380600.dwg
JACOBS PROJECT # D3380600

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: J RUSSO
DRAWN BY: J RUSSO
CHECKED BY: S WEGIEL
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

VANDERWEIL POWER GROUP

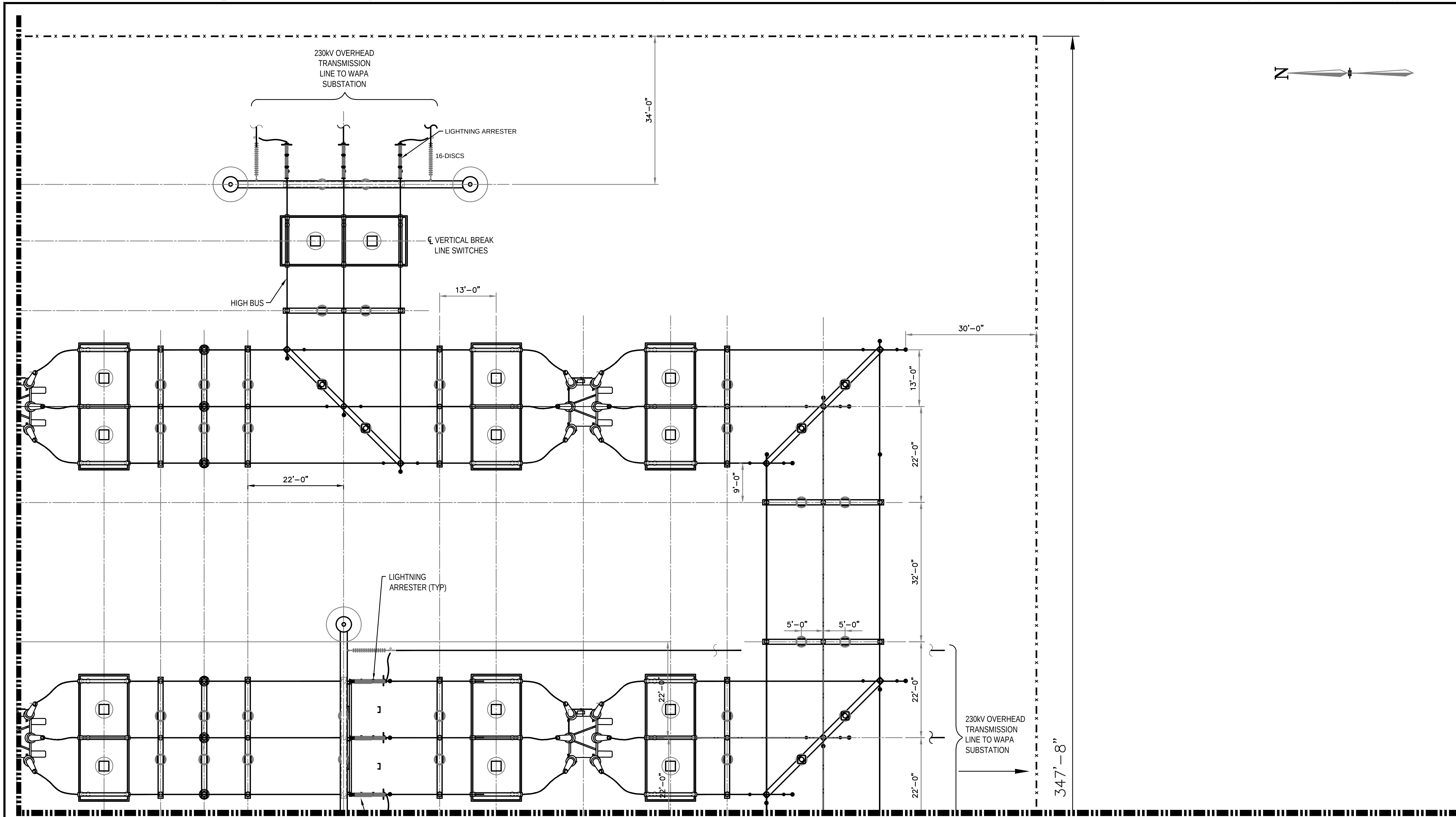
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2
FUNKS RESERVOIR
230KV SUBSTATION
FUNKS SUBSTATION EQUIPMENT PLAN SECTOR 1

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
FNK-110-E-2203



SCALE: 3/32=1'–0"

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:HATCH, CHRISTIAN –November 6, 2020–3:44:42 PM
DRAWING: FNK–110–E–2204_D3380600.dwg
JACOBS PROJECT # D3880600

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: J RUSSO
DRAWN BY: J RUSSO
CHECKED BY: S WEGIEL
IN CHARGE: P RUDE
DATE: 11–09–2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243–5831

VANDERWEIL POWER GROUP

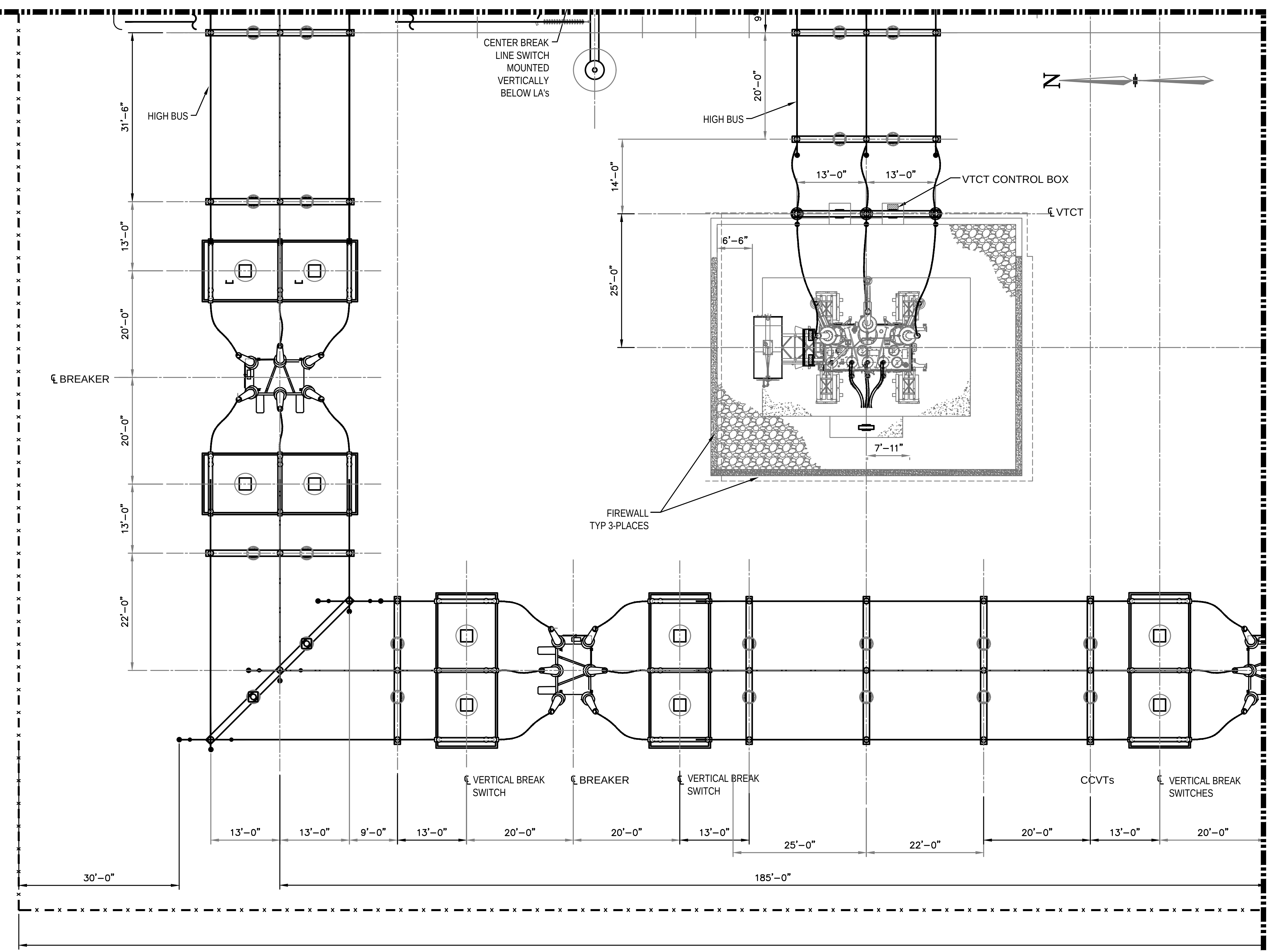
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2
FUNKS RESERVOIR
230KV SUBSTATION
FUNKS SUBSTATION EQUIPMENT PLAN SECTOR 2

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
FNK–110–E–2204



SCALE: 3/32=1'-0"

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:HATCH, CHRISTIAN –November 6, 2020–3:44:42 PM
DRAWING: FNK-110-E-2205_D3380600.dwg
JACOBS PROJECT # D3380600

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: J RUSSO
DRAWN BY: J RUSSO
CHECKED BY: S WEGIEL
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

VANDERWEIL POWER GROUP

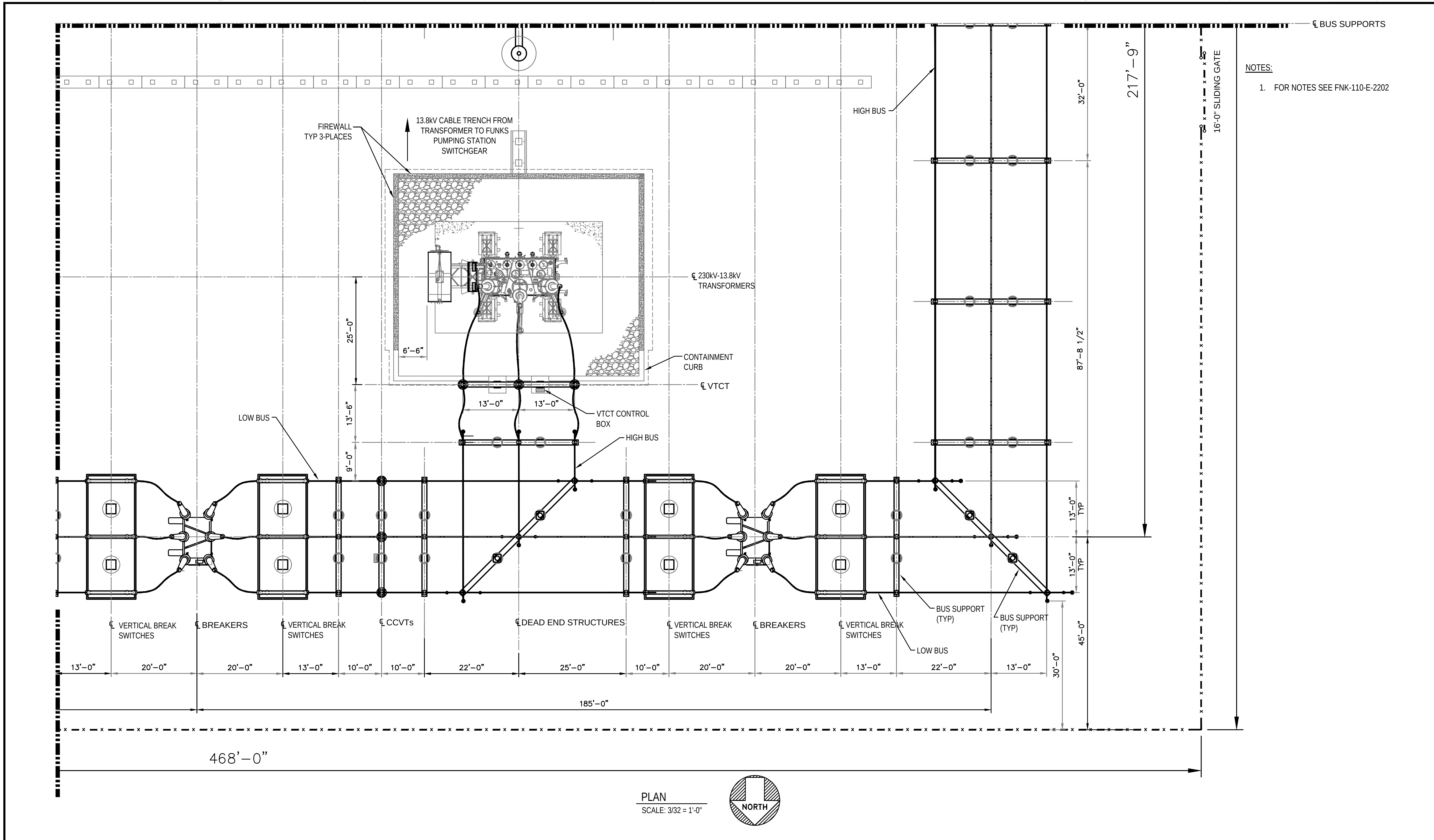
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2
FUNKS RESERVOIR
230KV SUBSTATION
FUNKS SUBSTATION EQUIPMENT PLAN SECTOR 3

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
FNK-110-E-2205



PLAN
SCALE: 3/32 = 1'-0"

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: J RUSSO
DRAWN BY: J RUSSO
CHECKED BY: S WEGIEL
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

VANDERWEIL POWER GROUP

Sites

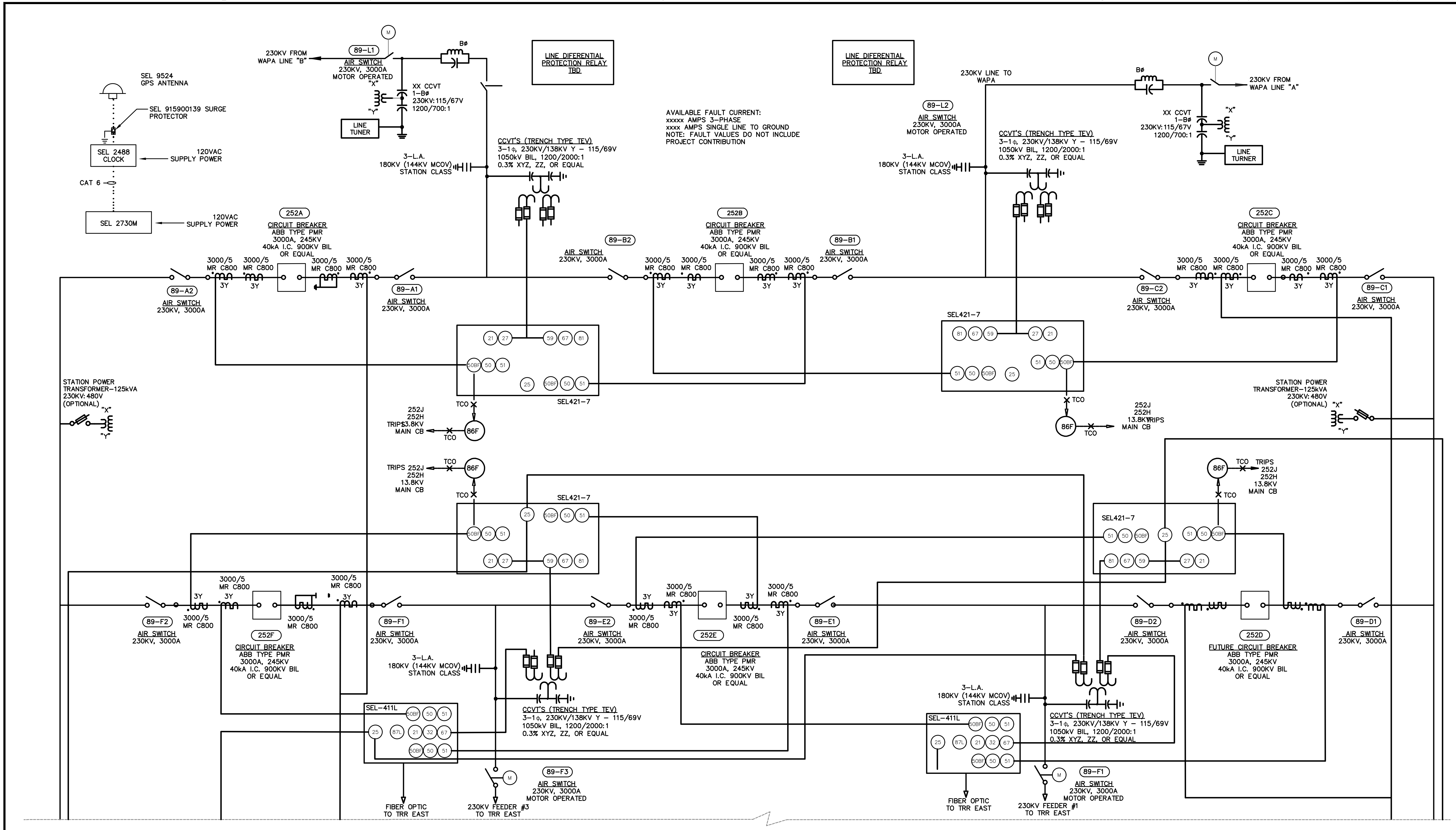
SITES RESERVOIR TO 2
FUNKS RESERVOIR
230KV SUBSTATION
FUNKS SUBSTATION EQUIPMENT PLAN SECTOR 4

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
FNK-110-E-2206

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:HATCH, CHRISTIAN –November 6, 2020–3:44:42 PM
DRAWING: FNK–110–E–2206_D3380600.dwg
JACOBS PROJECT # D3880600



FOR CONTINUATION SEE DWG. FNK-110-E-6002

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: S WEGIEL
DRAWN BY: A RASHEED
CHECKED BY: S WEGIEL
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831
VANDERWEIL POWER GROUP

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

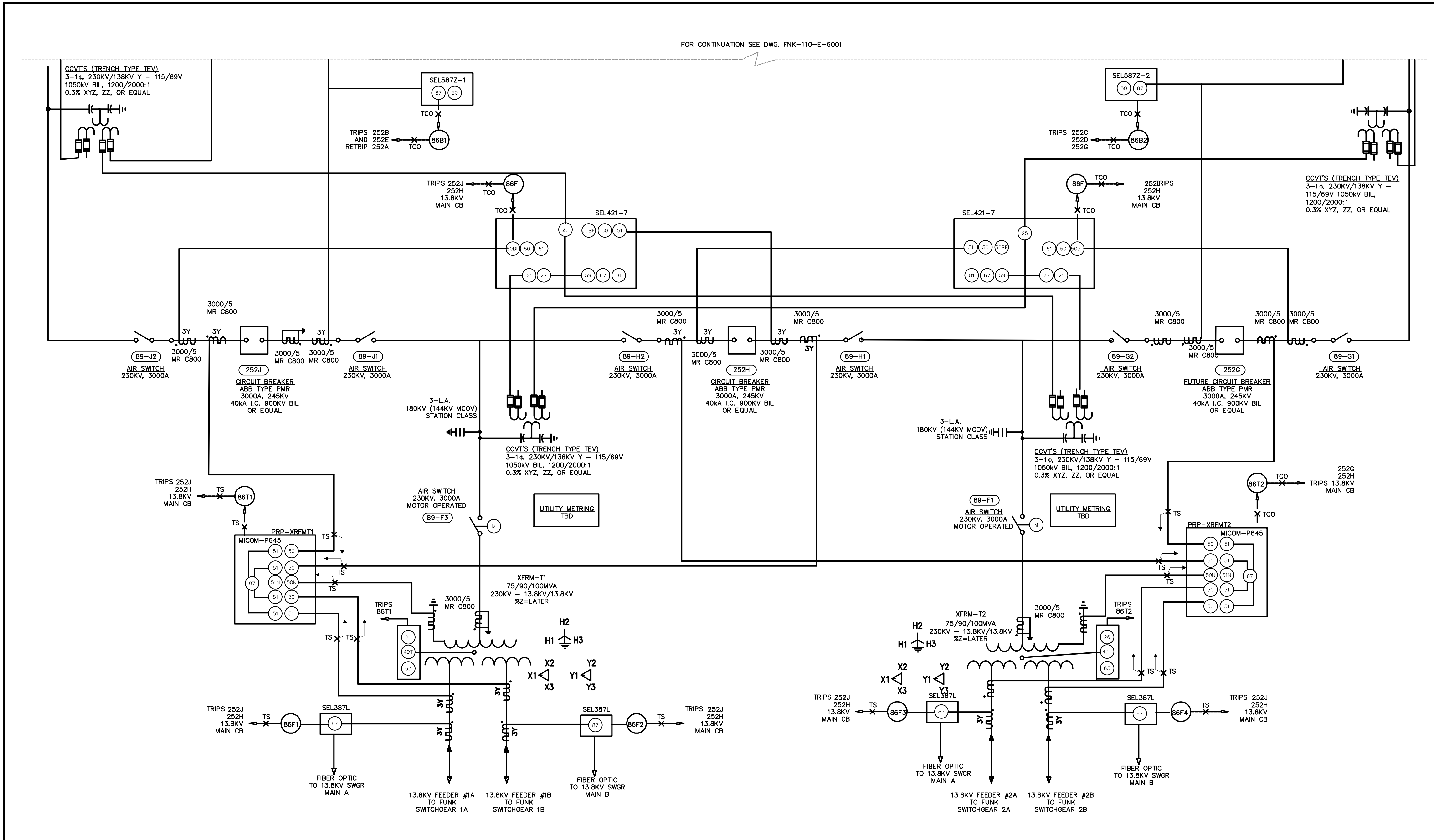
Sites

SITES RESERVOIR TO 2 FUNKS RESERVOIR 230KV SUBSTATION
RELAYING AND PROTECTION ONE LINE DIAGRAM 1

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
DRAWING NO.
FNK-110-E-6001

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:RASHEED, ASIF –November 5, 2020–3:44:42 PM
DRAWING: FNK-110-E-6001_D3380600.dwg
JACOBS PROJECT # D3380600



PLOTTED BY:RASHEED, ASIF –November 5, 2020–3:44:42 PM
DRAWING: FNK-110-E-6002_D3380600.dwg
JACOBS PROJECT # D3380600

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: S WEGIEL
DRAWN BY: A RASHEED
CHECKED BY: S WEGIEL
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

VANDERWEIL POWER GROUP

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2
FUNKS RESERAVOIR
230KV SUBSTATION
RELAYING AND PROTECTION ONE LINE DIAGRAM 2

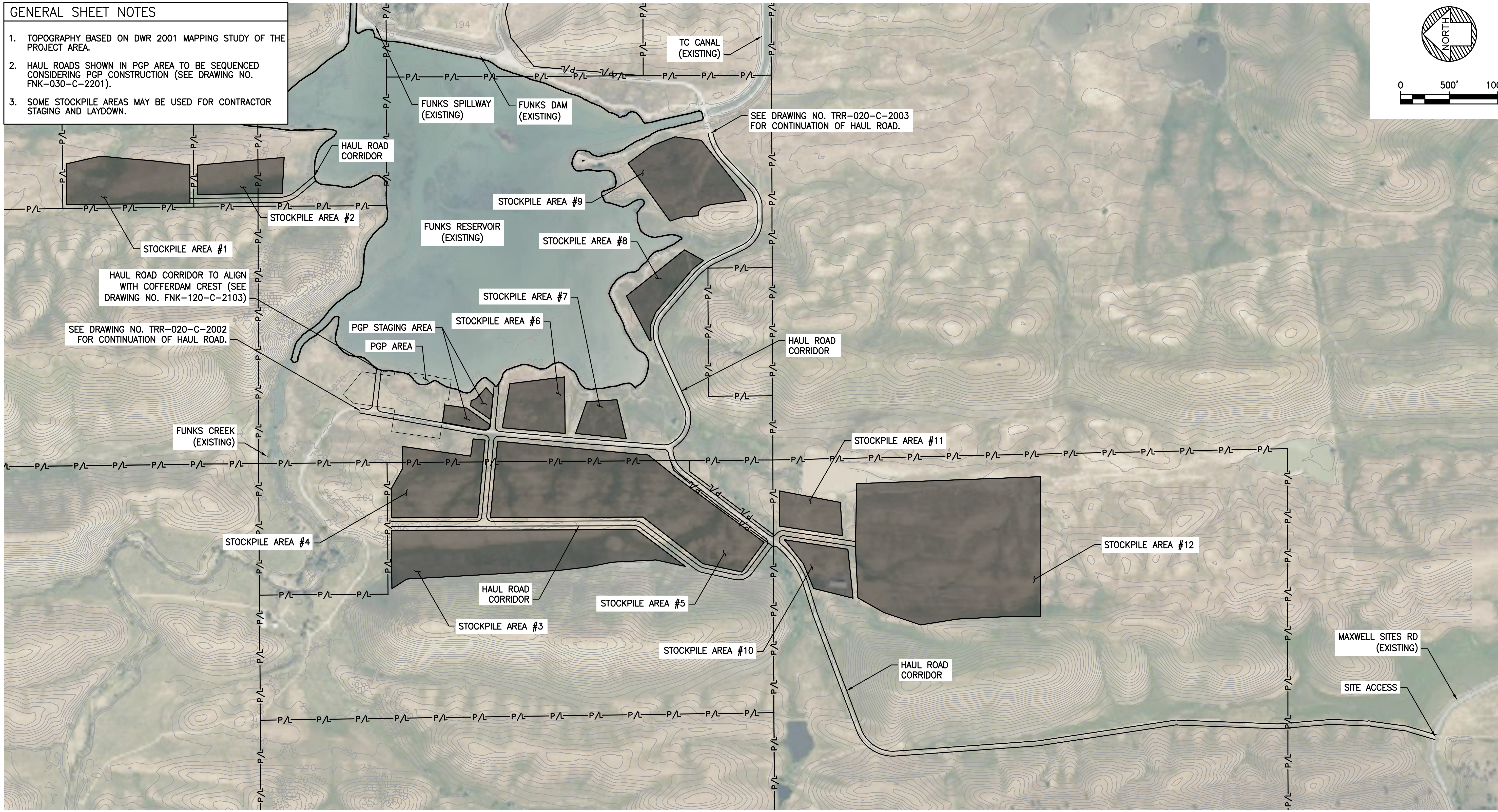
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
FNK-110-E-6002

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

GENERAL SHEET NOTES

1. TOPOGRAPHY BASED ON DWR 2001 MAPPING STUDY OF THE PROJECT AREA.
2. HAUL ROADS SHOWN IN PGP AREA TO BE SEQUENCED CONSIDERING PGP CONSTRUCTION (SEE DRAWING NO. FNK-030-C-2201).
3. SOME STOCKPILE AREAS MAY BE USED FOR CONTRACTOR STAGING AND LAYDOWN.



PLAN
SCALE: 1" = 500'

PROJECT FEASIBILITY STUDY — NOT FOR CONSTRUCTION

PLOTTED BY:SASHA KHALAMEYZER –November 5, 2020–3:44:42 PM
DRAWING: FNK-120-C-2101_D3380600.dwg
JACOBS PROJECT # D3380600

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY:	D MORLEY
DRAWN BY:	S KHALAMEYZER
CHECKED BY:	B MARTINEZ
IN CHARGE:	P RUDE
DATE:	11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

Geosyntec consultants

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

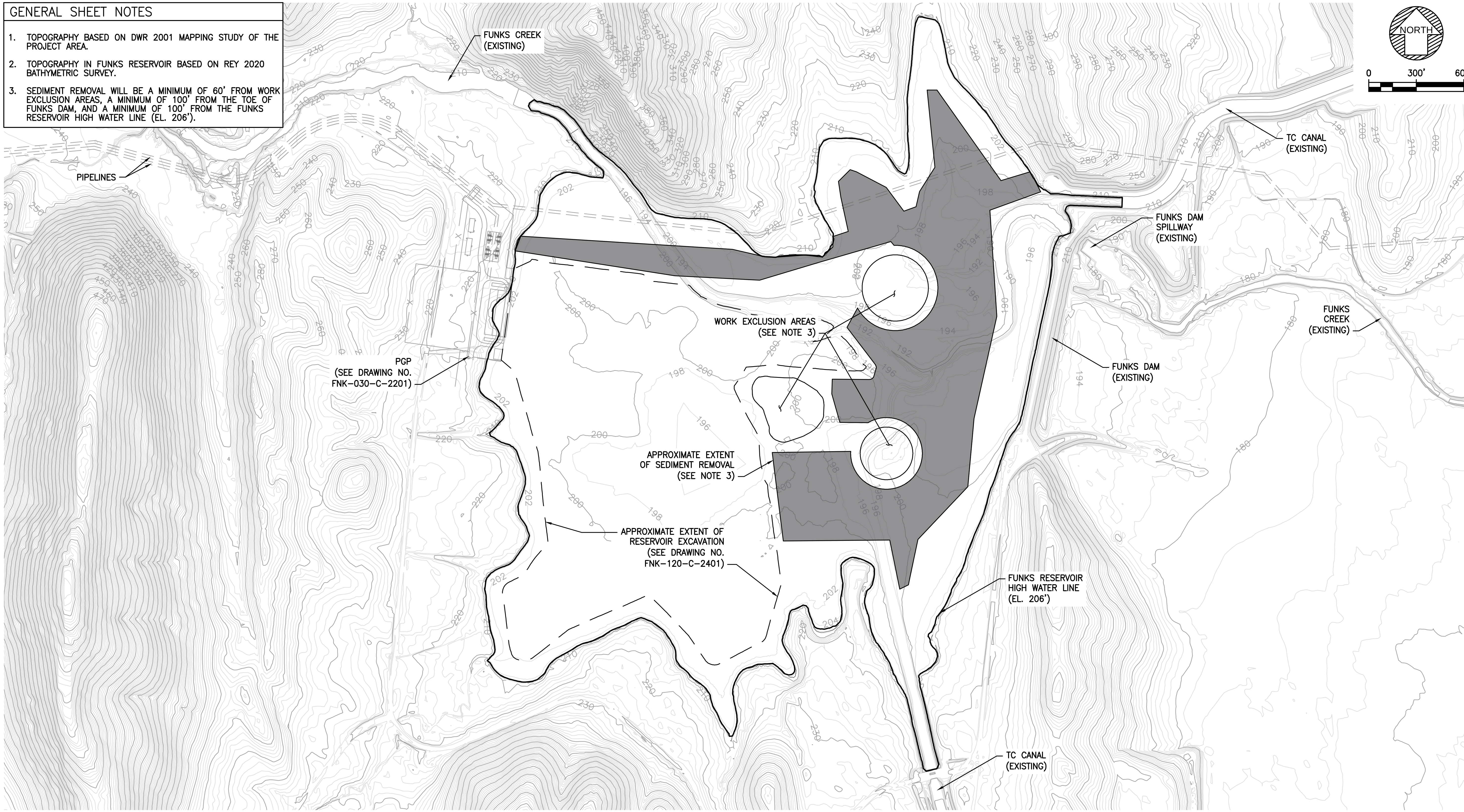
SITES RESERVOIR TO 2
FUNKS RESERVOIR
STOCKPILE AND HAUL ROUTE
PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
FNK-120-C-2101

GENERAL SHEET NOTES

1. TOPOGRAPHY BASED ON DWR 2001 MAPPING STUDY OF THE PROJECT AREA.
2. TOPOGRAPHY IN FUNKS RESERVOIR BASED ON REY 2020 BATHYMETRIC SURVEY.
3. SEDIMENT REMOVAL WILL BE A MINIMUM OF 60' FROM WORK EXCLUSION AREAS, A MINIMUM OF 100' FROM THE TOE OF FUNKS DAM, AND A MINIMUM OF 100' FROM THE FUNKS RESERVOIR HIGH WATER LINE (EL. 206').



PLAN
SCALE: 1" = 300'

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: D MORLEY
DRAWN BY: S KHALAMEYZER
CHECKED BY: B MARTINEZ
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
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REDDING CA, 96001
PHONE: (530) 243-5831

Geosyntec consultants

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2
FUNKS RESERVOIR SEDIMENT REMOVAL PLAN

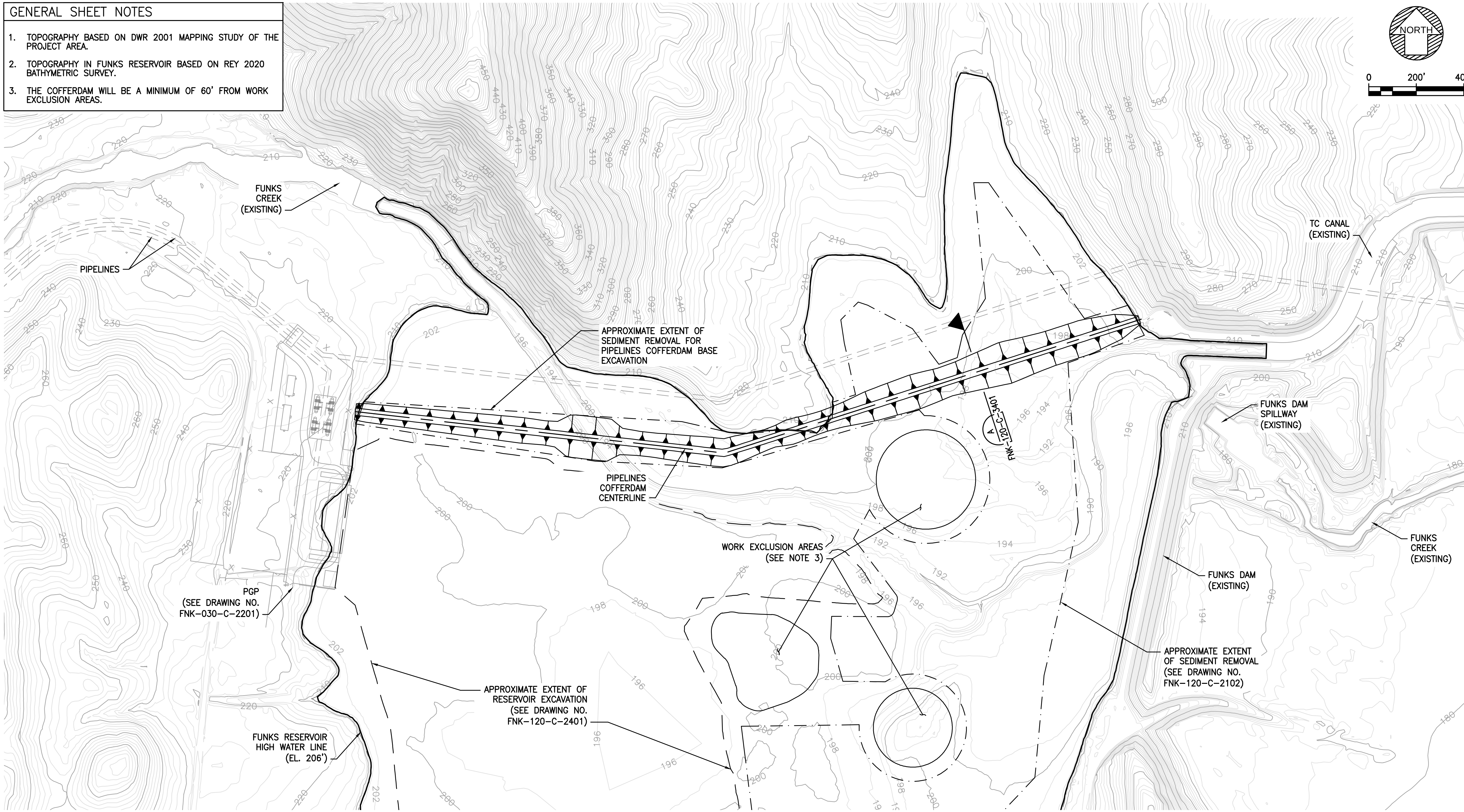
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
FNK-120-C-2102

PLOTTED BY:SASHA KHALAMEYZER –November 5, 2020–3:44:42 PM
DRAWING: FNK-120-C-2102_D3380600.dwg
JACOBS PROJECT # D3880600

GENERAL SHEET NOTES

1. TOPOGRAPHY BASED ON DWR 2001 MAPPING STUDY OF THE PROJECT AREA.
2. TOPOGRAPHY IN FUNKS RESERVOIR BASED ON REY 2020 BATHYMETRIC SURVEY.
3. THE COFFERDAM WILL BE A MINIMUM OF 60' FROM WORK EXCLUSION AREAS.



PLAN
SCALE: 1" = 200'

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: D MORLEY
DRAWN BY: S KHALAMEYZER
CHECKED BY: B MARTINEZ
IN CHARGE: P RUDE
DATE: 11-09-2020

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REDDING CA, 96001
PHONE: (530) 243-5831

Geosyntec consultants

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2
FUNKS RESERVOIR
COFFERDAM
PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

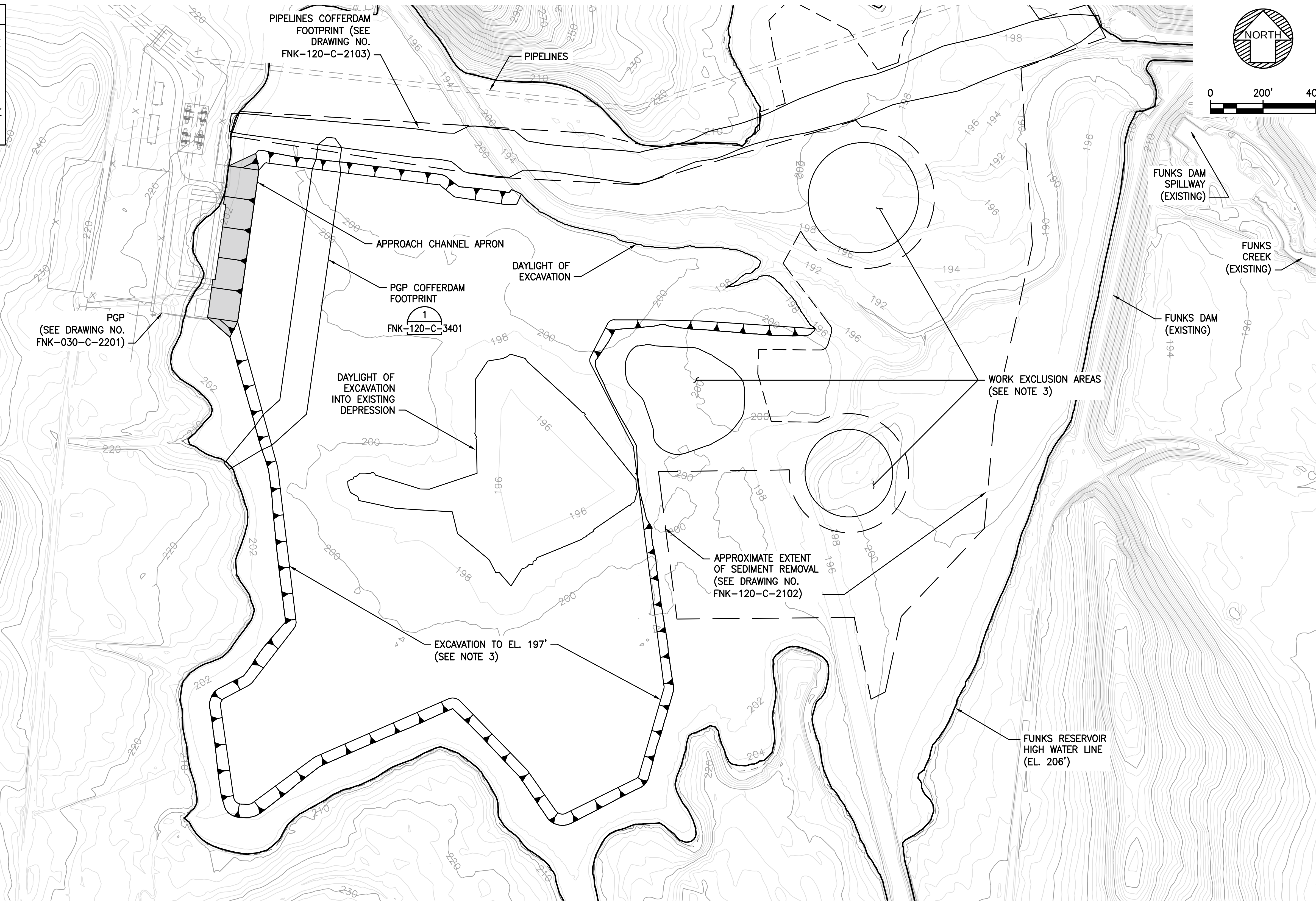
DRAWING NO.
FNK-120-C-2103

PLOTTED BY:SASHA KHALAMEYZER –November 5, 2020–3:44:42 PM
DRAWING: FNK-120-C-2103_D3380600.dwg
JACOBS PROJECT # D3880600

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

GENERAL SHEET NOTES

1. TOPOGRAPHY BASED ON DWR 2001 MAPPING STUDY OF THE PROJECT AREA.
2. TOPOGRAPHY IN FUNKS RESERVOIR BASED ON REY 2020 BATHYMETRIC SURVEY.
3. RESERVOIR GRADING WILL BE A MINIMUM OF 60' FROM WORK EXCLUSION AREAS, A MINIMUM OF 50' FROM THE TOE OF THE COFFERDAM, AND A MINIMUM OF 100' FROM THE RESERVOIR HIGH WATER LINE.



PLAN
SCALE: 1" = 200'

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: D MORLEY
DRAWN BY: S KHALAMEYZER
CHECKED BY: B MARTINEZ
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
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REDDING CA, 96001
PHONE: (530) 243-5831

Geosyntec consultants

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2
FUNKS RESERVOIR
EXCAVATION AND APPROACH CHANNEL PLAN

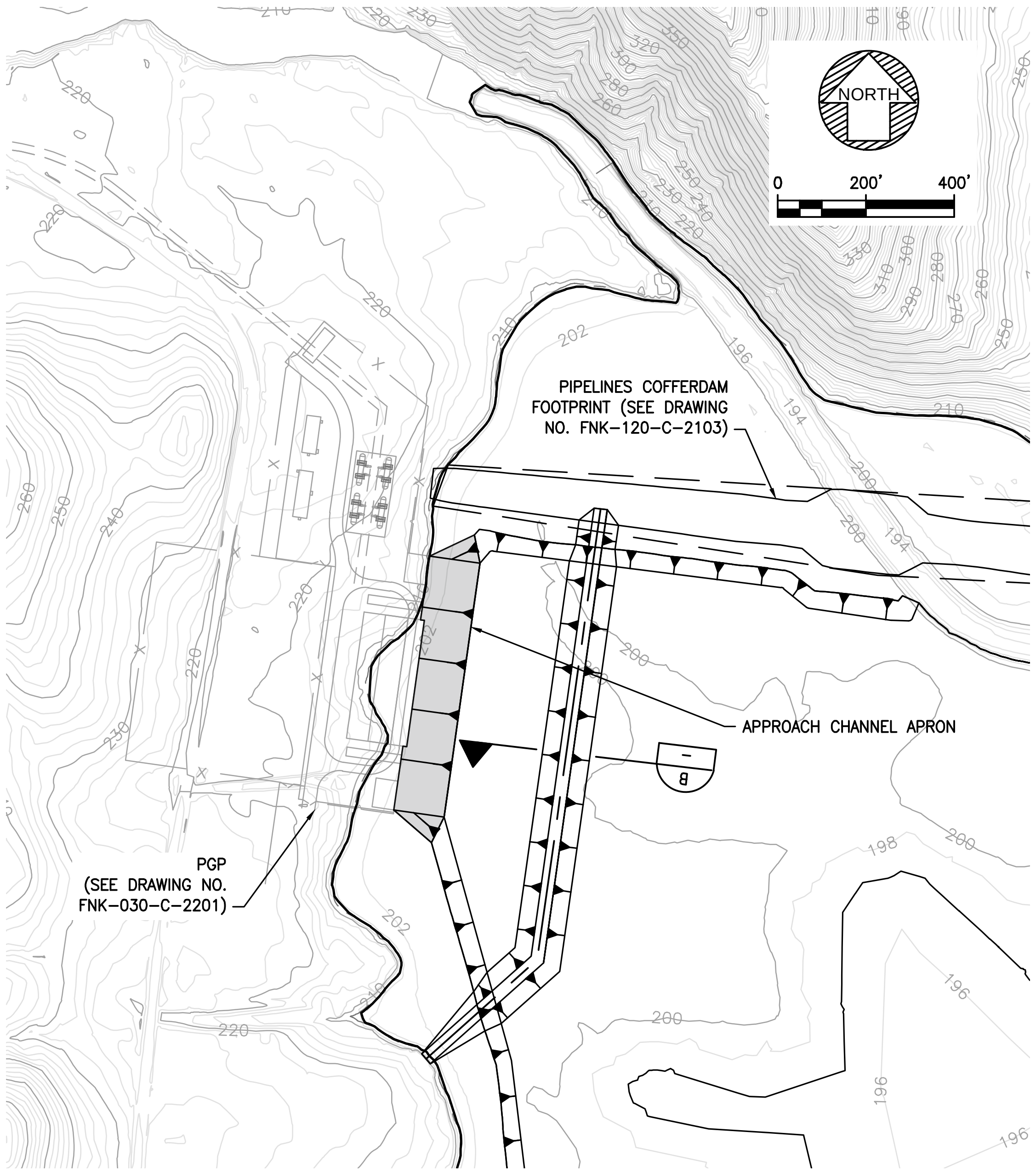
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
FNK-120-C-2401

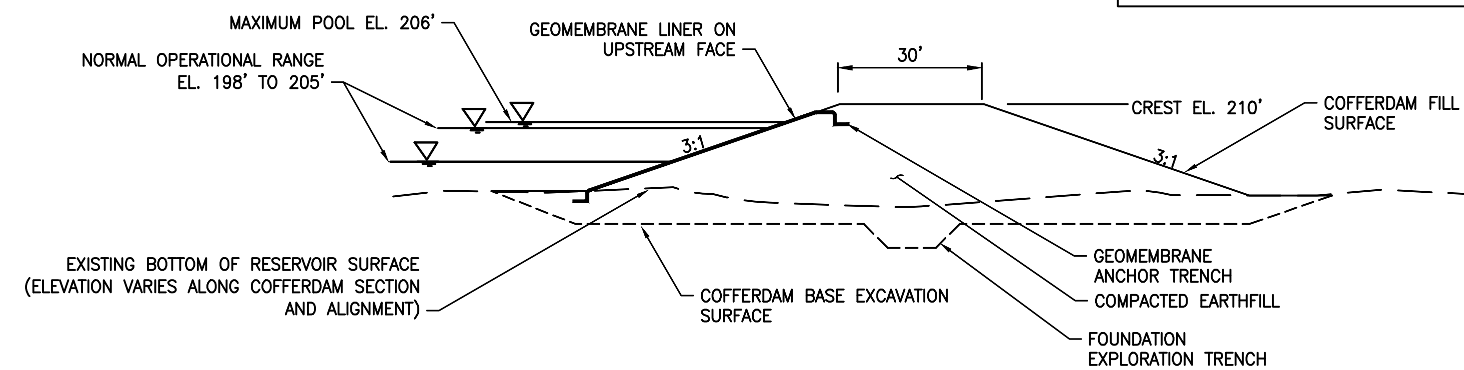
PLOTTED BY:SASHA KHALAMEYZER –November 5, 2020–3:44:42 PM
DRAWING: FNK-120-C-2401_D3380600.dwg
JACOBS PROJECT # D3380600

GENERAL SECTION NOTES

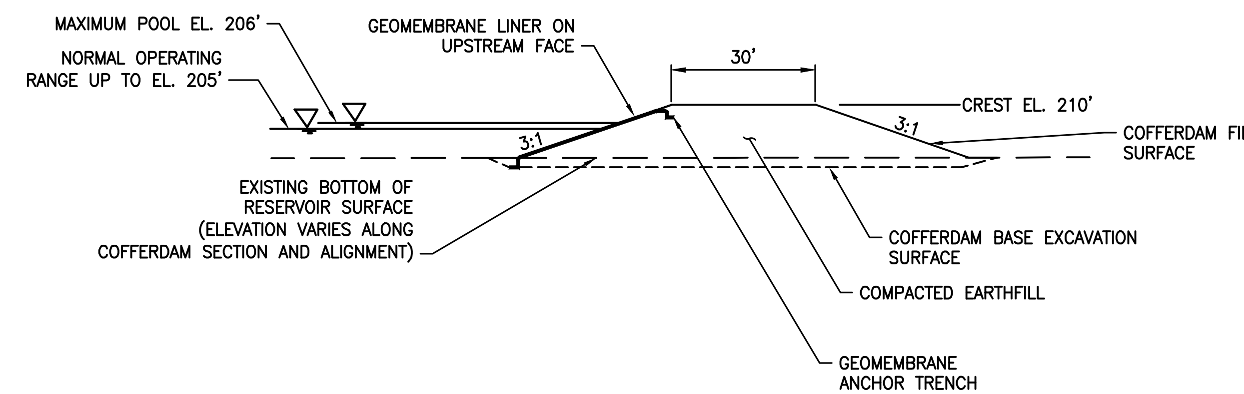
1. FOUNDATION GROUTING TO REDUCE SEEPAGE MAY BE PERFORMED IN SELECTED AREAS BASED ON GEOLOGIC OBSERVATIONS DURING CONSTRUCTION.



1 | PLAN, PGP COFFERDAM
FNK-120-C-2401 | SCALE: 1"=200'



A | SECTION, PIPELINES COFFERDAM
FNK-120-C-2103 | SCALE: NTS



B | SECTION, PGP COFFERDAM
- | SCALE: NTS

PROJECT FEASIBILITY STUDY — NOT FOR CONSTRUCTION

PLOTTED BY:SASHA KHALAMEYZER -November 5, 2020-3:44:42 PM
DRAWING: FNK-120-C-3401_D3380600.dwg
JACOBS PROJECT # D3880600

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: D MORLEY
DRAWN BY: S KHALAMEYZER
CHECKED BY: B MARTINEZ
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
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REDDING CA, 96001
PHONE: (530) 243-5831

Geosyntec consultants

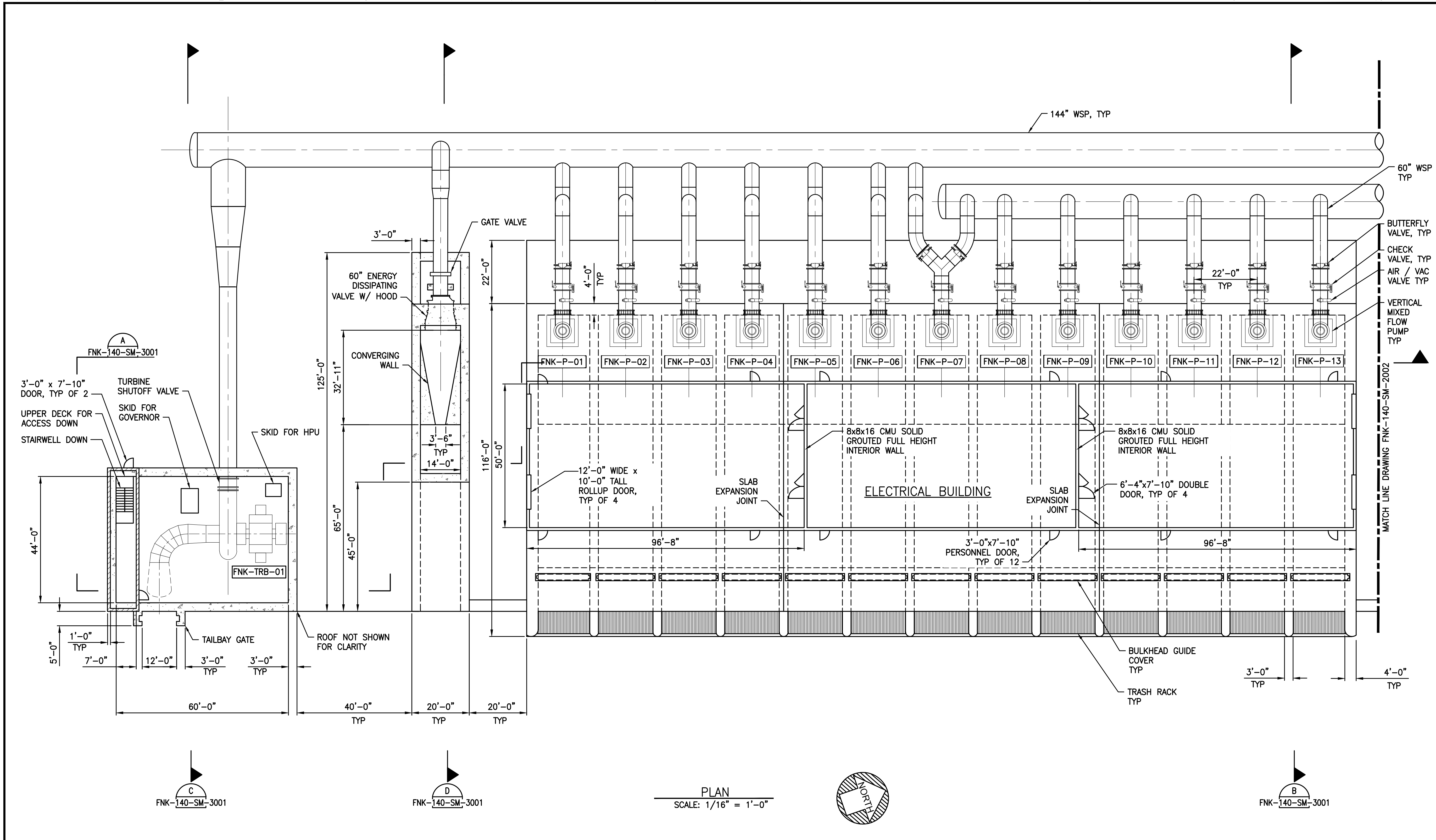
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2
FUNKS RESERVOIR
RESERVOIR
SECTIONS AND DETAILS

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
FNK-120-C-3401



PLAN
SCALE: 1/16" = 1'-0"

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: KELLOGG/RIESS
DRAWN BY: S HAUNG
CHECKED BY: HH / WM
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
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REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

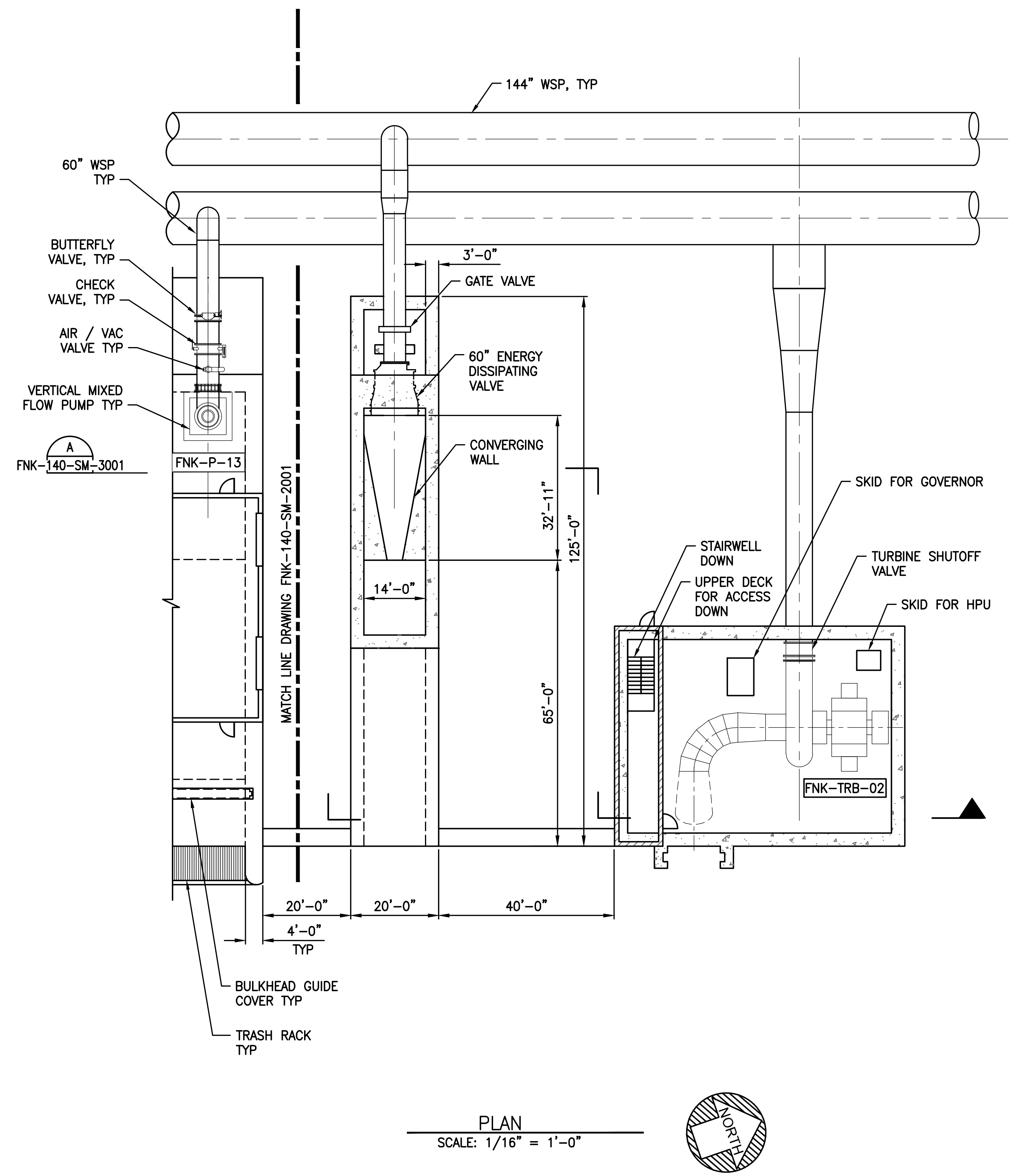
SITES RESERVOIR TO 2
FUNKS RESERVOIR
PUMPING GENERATING PLANT
PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
FNK-140-SM-2001

PLOTTED BY:CAVE, DAVID/RDD -November 5, 2020-3:44:42 PM
DRAWING: FNK-140-SM-2001_D3380600.dwg
JACOBS PROJECT # D3380600

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION



PLAN
SCALE: 1/16" = 1'-0"

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: KELLOGG/RIESS
DRAWN BY: S HAUNG
CHECKED BY: HH / WM
IN CHARGE: P RUDE
DATE: 11-09-2020

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PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

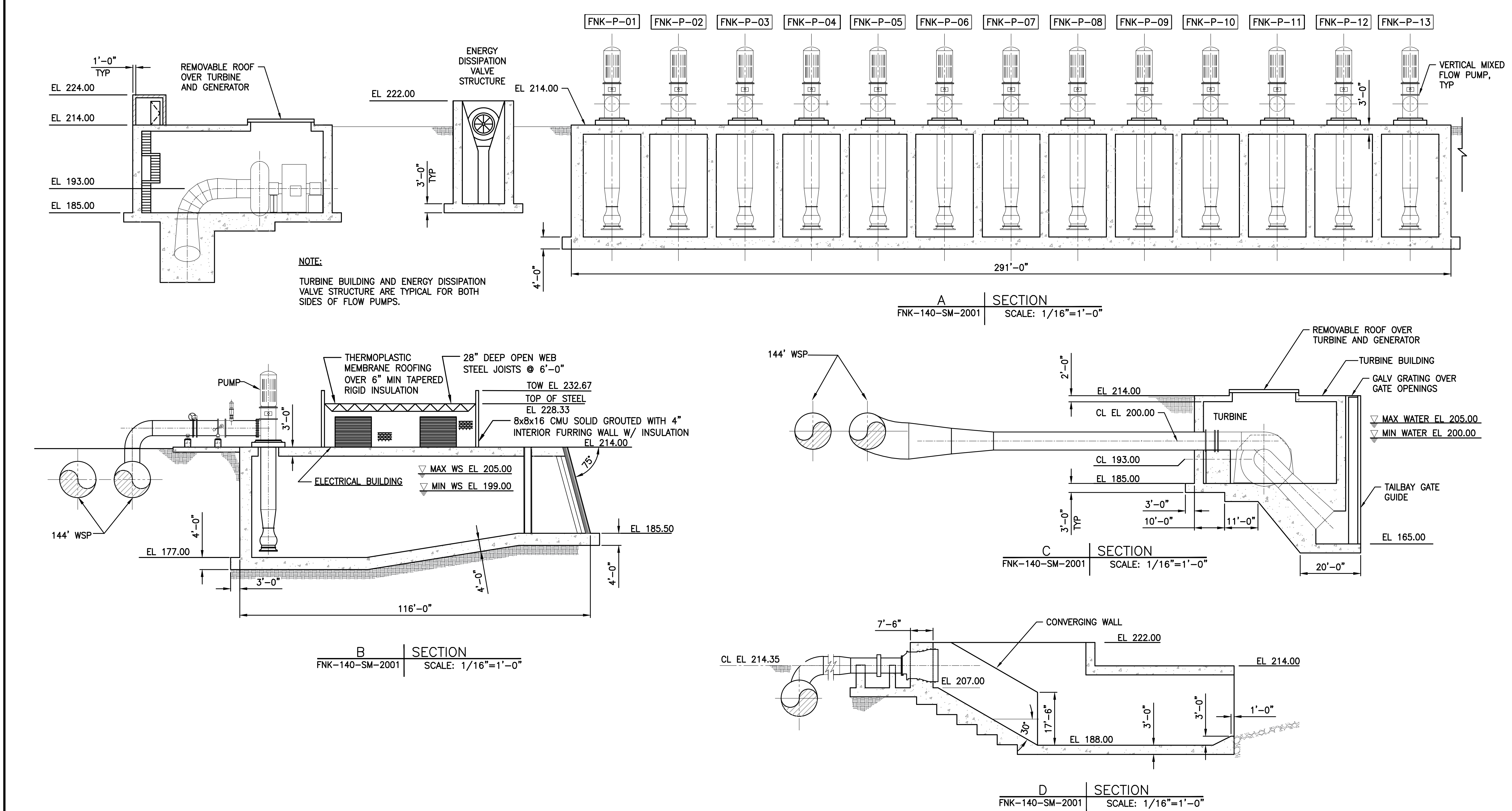
SITES RESERVOIR TO 2
FUNKS RESERVOIR
PUMPING GENERATING PLANT
PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
FNK-140-SM-2002

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:CAVE, DAVID/RDD –November 5, 2020–3:44:42 PM
DRAWING: FNK-140-SM-2002_D3380600.dwg
JACOBS PROJECT # D3380600



PLOTTED BY:CAVE, DAVID/RDD –November 5, 2020–3:44:42 PM
DRAWING: FNK-140-SM-3001_D3380600.dwg
JACOBS PROJECT # D3380600

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: KELLOGG/RIESS
DRAWN BY: S HUANG
CHECKED BY: HH / WM
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2
FUNKS RESERVOIR
PUMPING GENERATING PLANT
SECTIONS

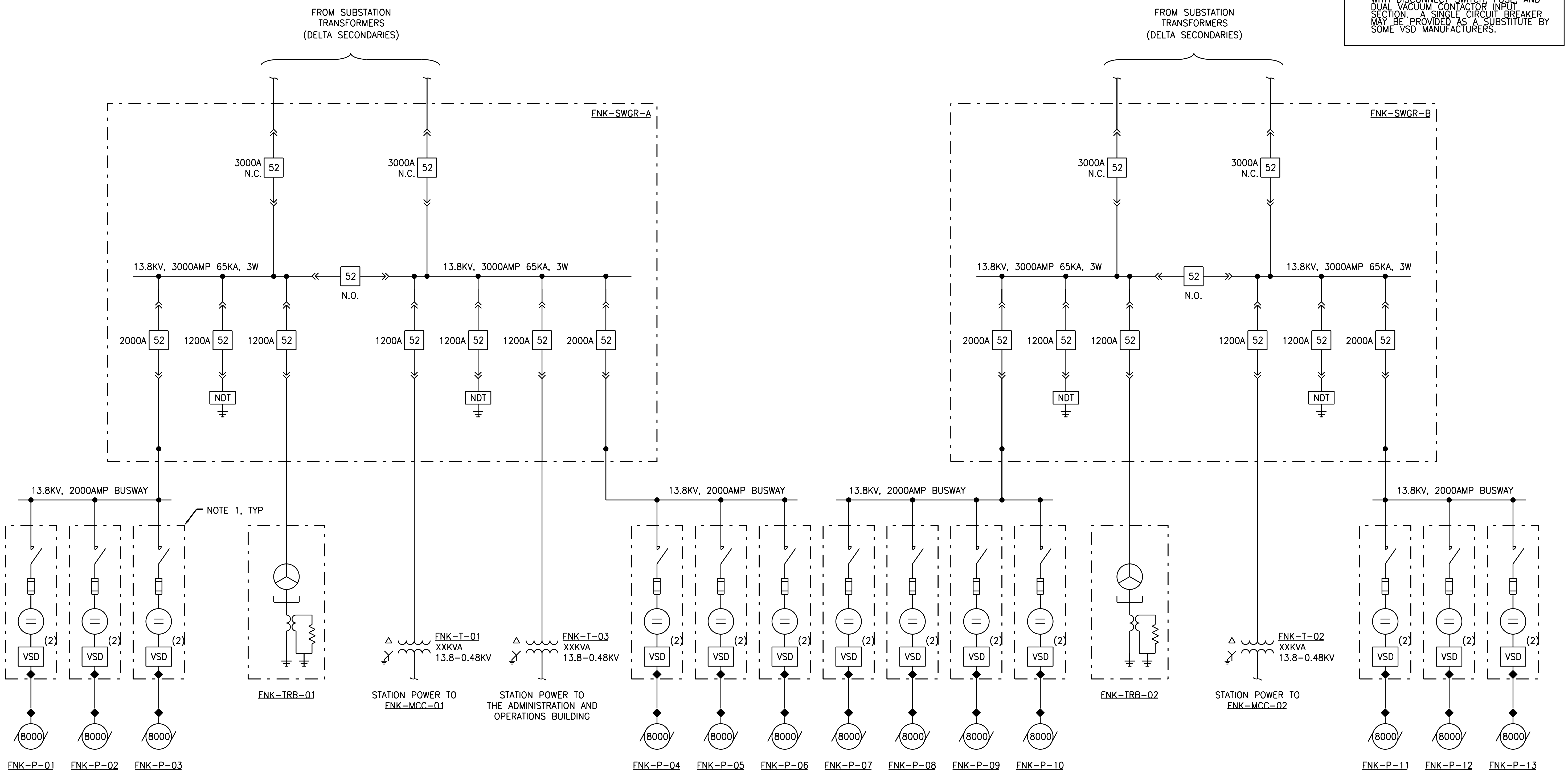
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
FNK-140-SM-3001

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

SHEET KEYNOTES

1. VARIABLE SPEED DRIVE (VSD) SHOWN WITH DISCONNECT SWITCH, FUSE, AND DUAL VACUUM CONTACTOR INPUT SECTION. A SINGLE CIRCUIT BREAKER MAY BE PROVIDED AS A SUBSTITUTE BY SOME VSD MANUFACTURERS.



PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

I/R	DATE	BY	CHK	APPR	DESCRIPTION

FILE NAME $FILENAME
PLOT DATE $PLOTDATE
PLOT TIME $PLOTTIME

DESIGNED BY:	C CUSWORTH
DRAWN BY:	R FURMANSKI
CHECKED BY:	J LANDMAN
IN CHARGE:	P RUDE
DATE:	11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

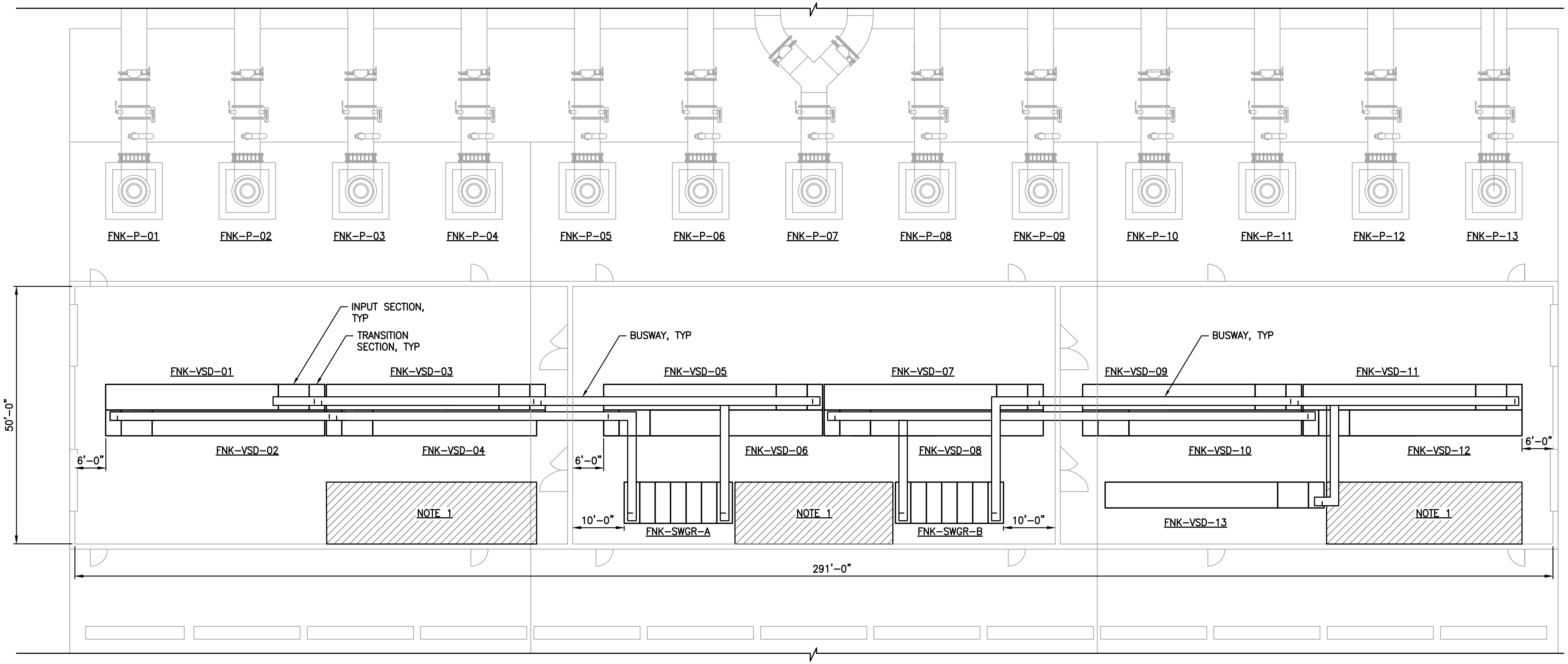
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2
FUNKS RESERVOIR
PUMPING GENERATING PLANT
ONE LINE DIAGRAM

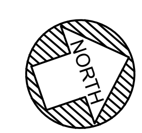
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
FNK-140-E-6001



ELECTRICAL BUILDING POWER PLAN

SCALE: 3/32" = 1'-0"



ORIENTATION AT FUNKS RESERVOIR

GENERAL NOTES

1. SPACE RESERVED FOR STATION AUX. XFMRS, SWITCHBOARDS, SWITCHGEAR BATTERY SYSTEM AND MISC. LOW VOLTAGE DISTRIBUTION AND EQUIPMENT.
2. ELECTRICAL BUILDING FOR THE TRR PUMPING GENERATING PLANT IS SIMILAR TO FUNKS.

PROJECT FEASIBILITY STUDY — NOT FOR CONSTRUCTION

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: C CUSWORTH
DRAWN BY: S METCALF
CHECKED BY: J LANDMAN
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

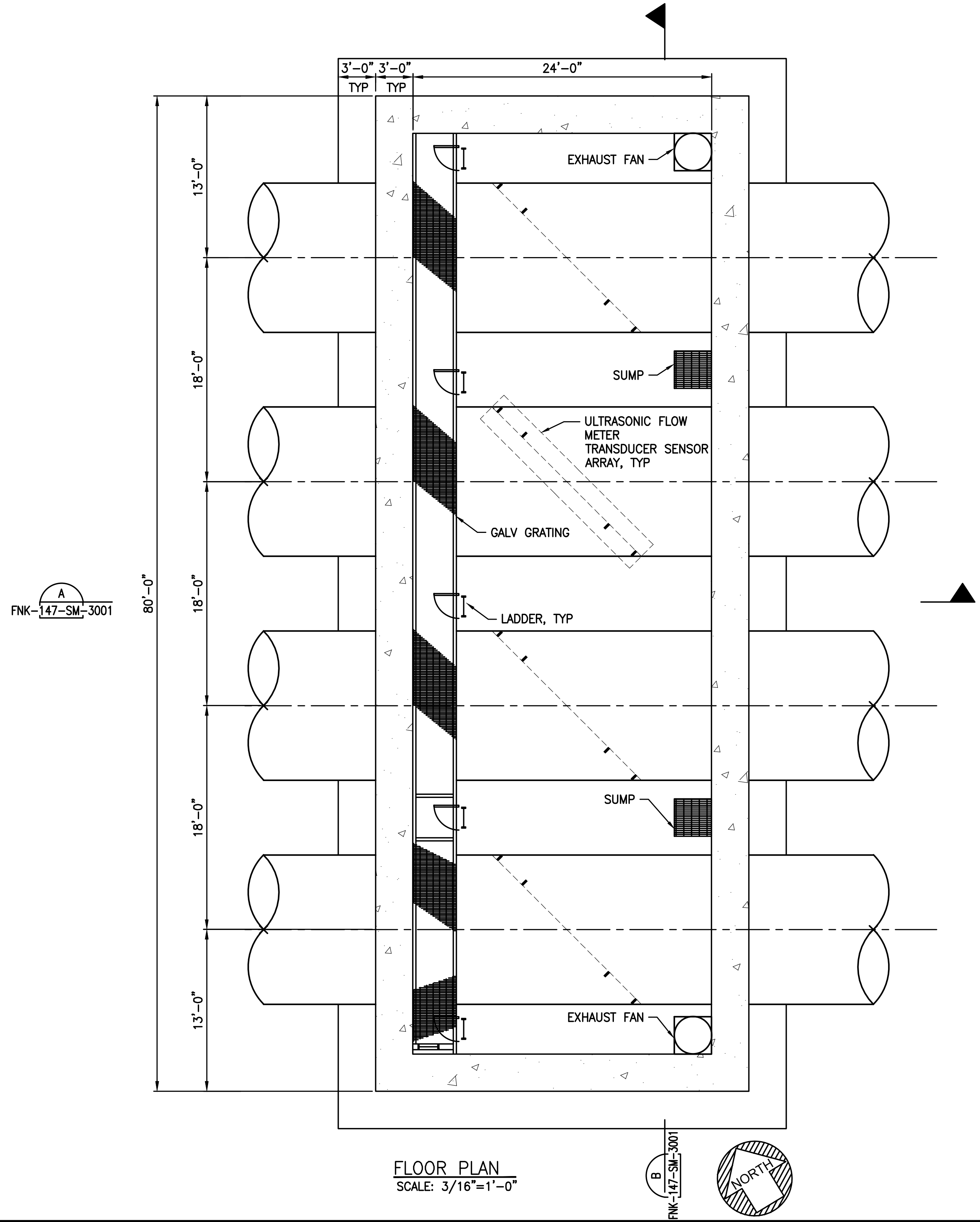
Sites

SITES RESERVOIR TO 2
FUNKS RESERVOIR
ELECTRICAL BUILDING
POWER PLAN

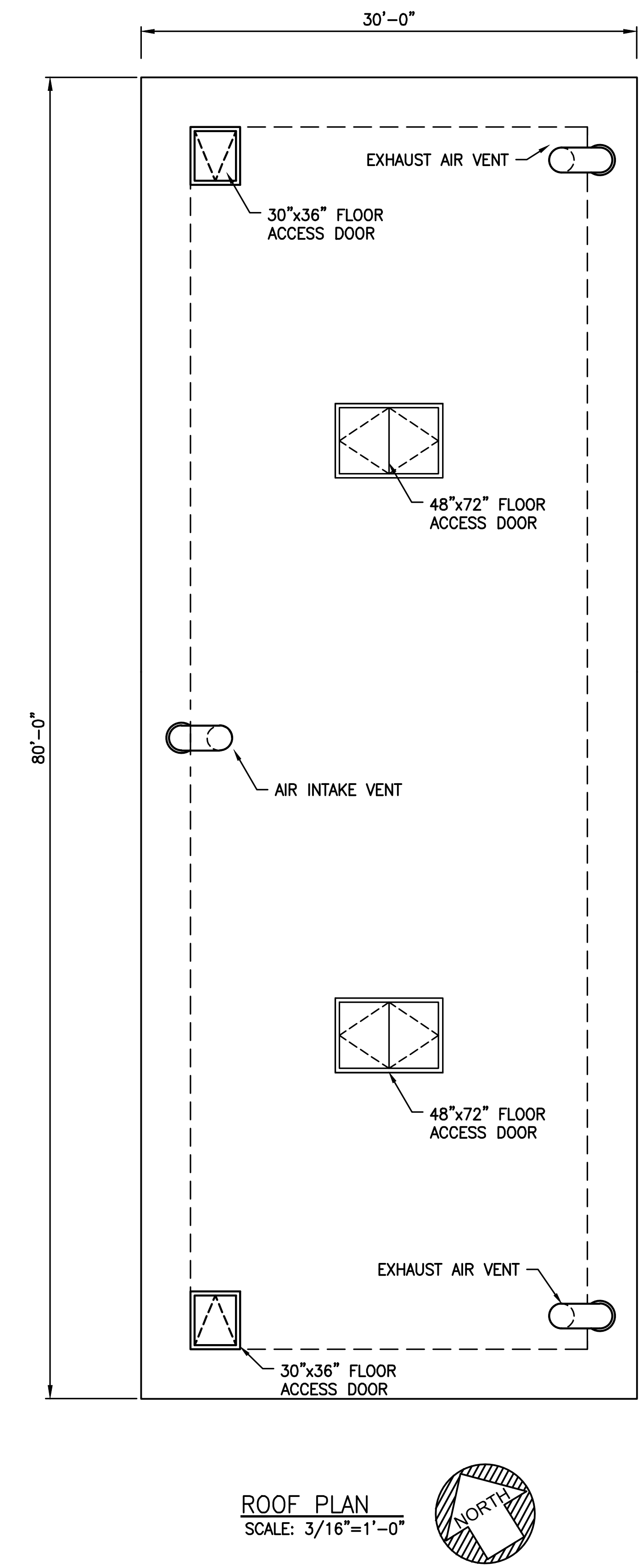
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
FNK-141-E-2201

PLOTTED BY:CAVE, DAVID/RDD -November 7, 2020-3:44:42 PM
DRAWING: FNK-141-E-2201_D3380600.dwg
JACOBS PROJECT # D3880600



FLOOR PLAN
SCALE: 3/16"=1'-0"



ROOF PLAN
SCALE: 3/16"=1'-0"

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:CAVE, DAVID/RDD –November 5, 2020–3:44:42 PM
DRAWING: FNK-147-SM-2001_D3380600.dwg
JACOBS PROJECT # D3380600

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY:	KELLOGG/RIESS
DRAWN BY:	S METCALF
CHECKED BY:	HH / WM
IN CHARGE:	P RUDE
DATE:	11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

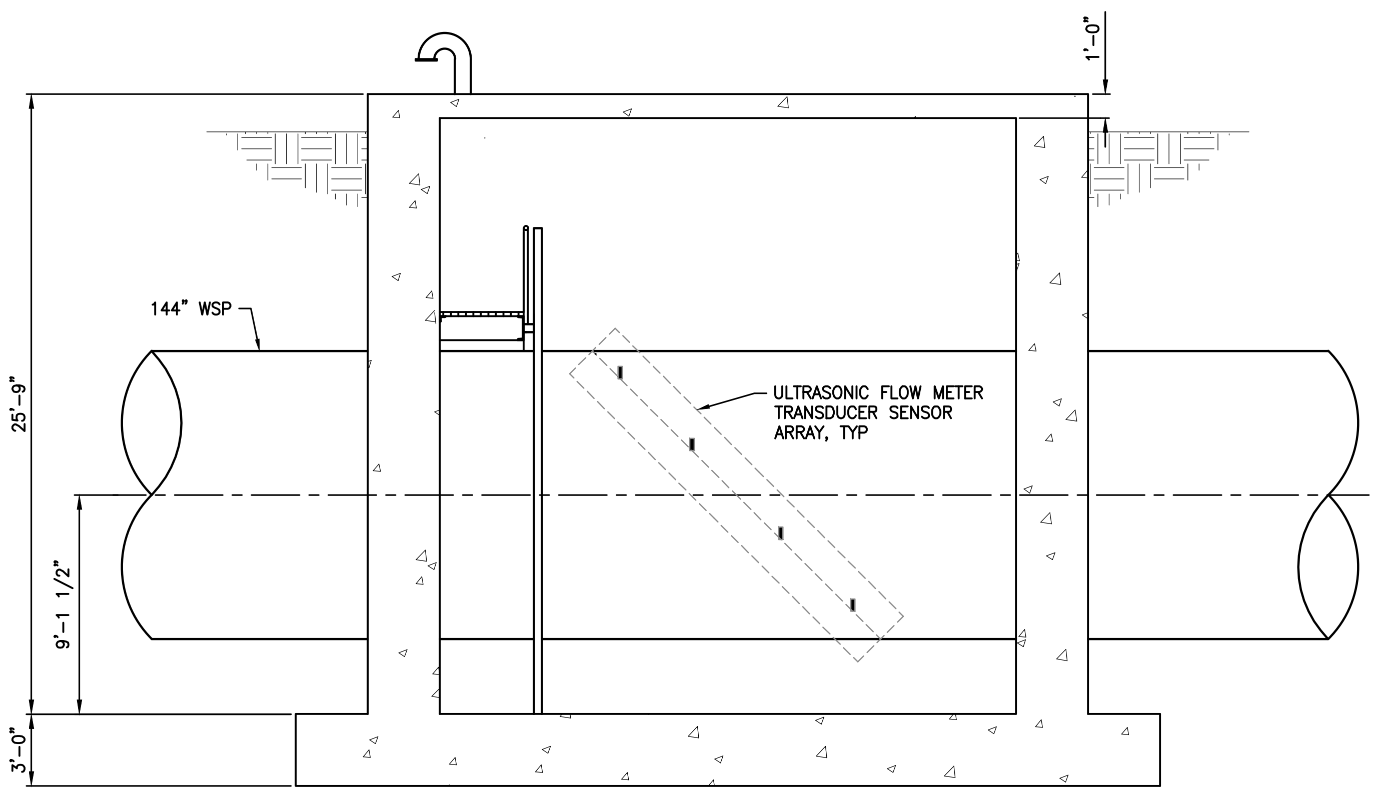
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

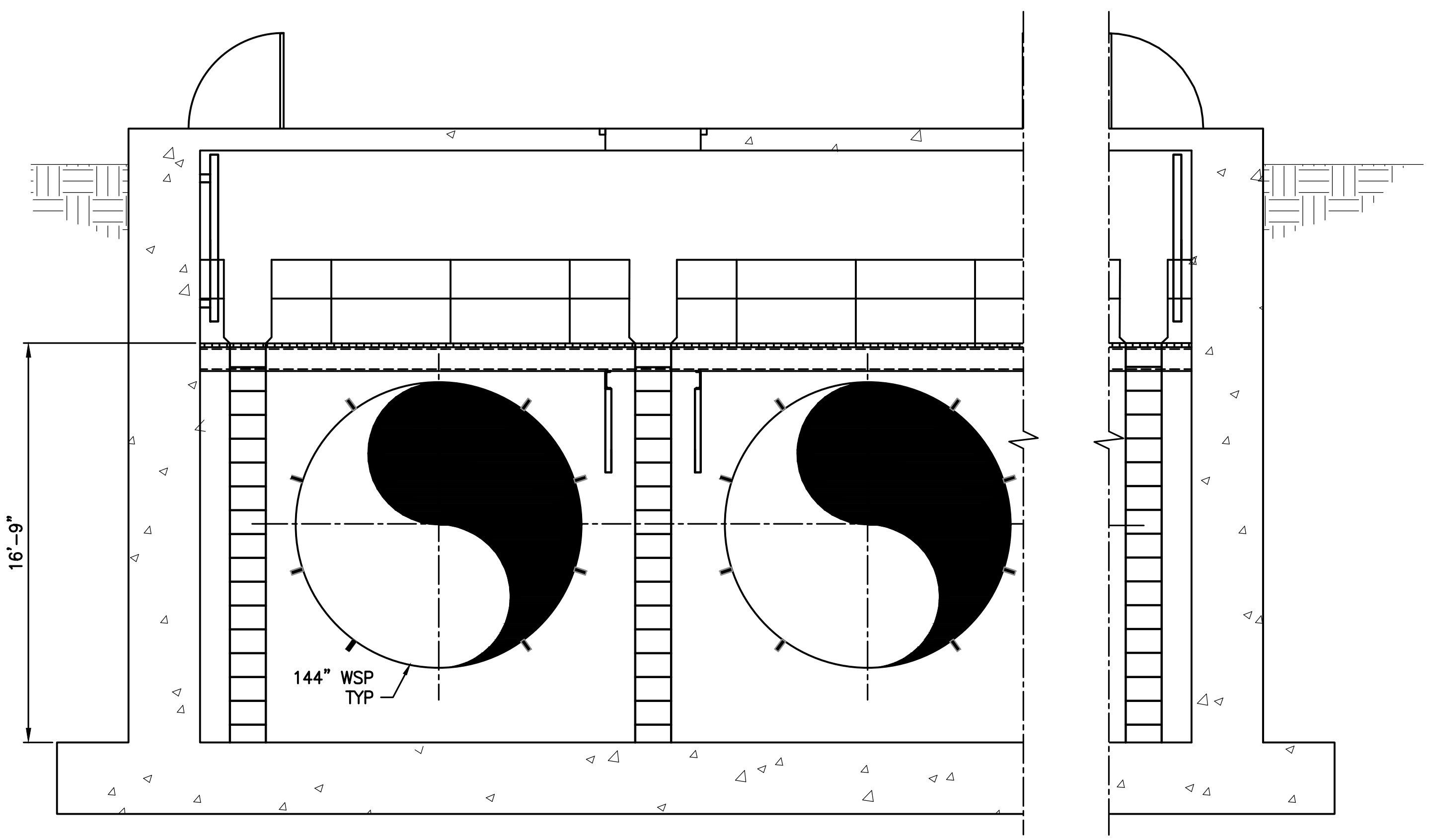
SITES RESERVOIR TO 2
FUNKS RESERVOIR
FLOW METER VAULT
FLOOR AND ROOF PLANS

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
FNK-147-SM-2001



A | SECTION
FNK-147-SM-2001 | SCALE: 1/4"=1'-0"



B | SECTION
FNK-147-SM-2001 | SCALE: 1/4"=1'-0"

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: KELLOGG/RIESS
DRAWN BY: S METCALF
CHECKED BY: HH / WM
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
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REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

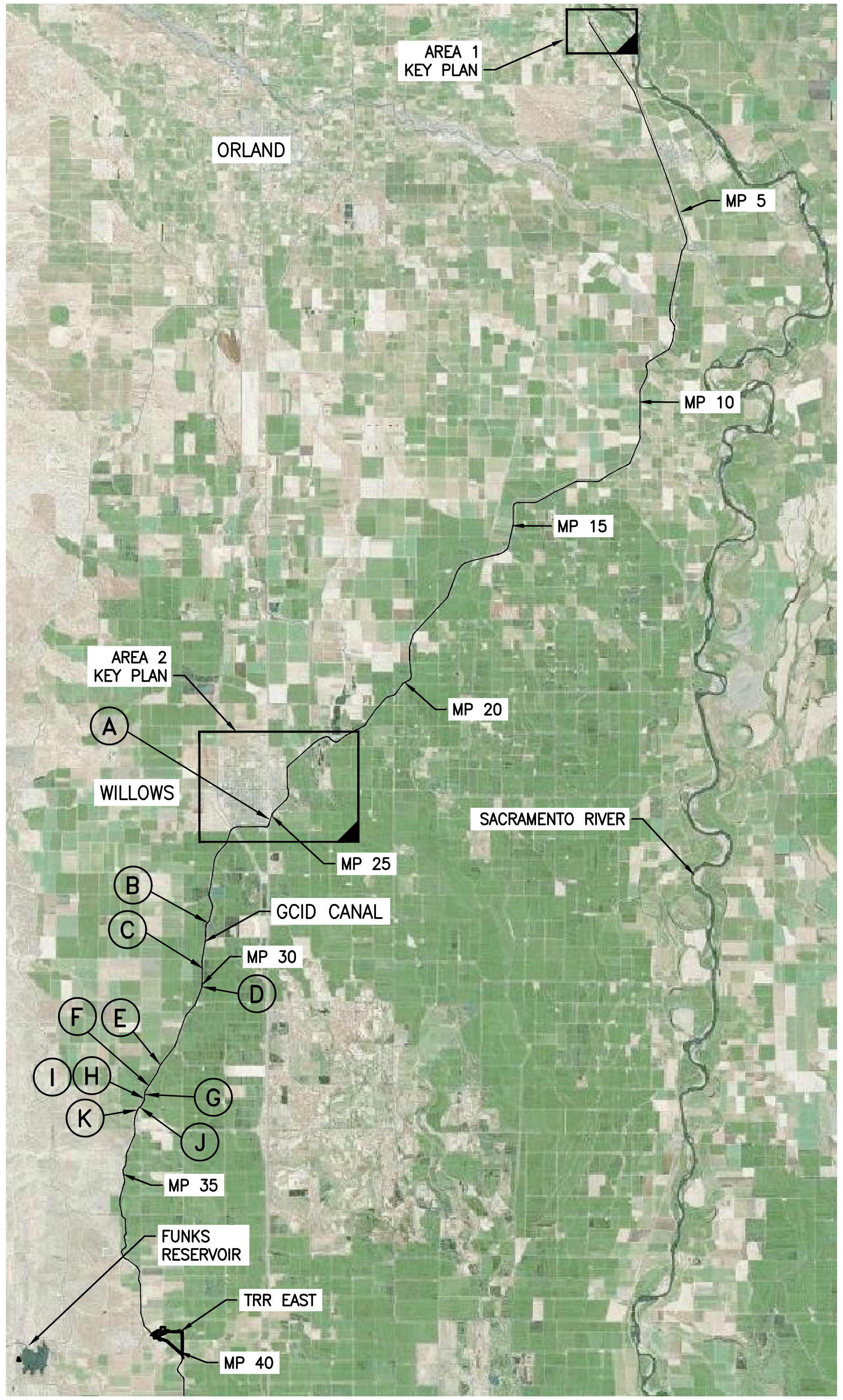
Sites

SITES RESERVOIR TO 2
FUNKS RESERVOIR
FLOW METER VAULT
SECTIONS

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
FNK-147-SM-3001

PLOTTED BY:CAVE, DAVID/RDD –November 5, 2020–3:44:42 PM
DRAWING: FNK-147-SM-3001_D3380600.dwg
JACOBS PROJECT # D3880600



LOCATION MAP
SCALE: NTS

LEGEND

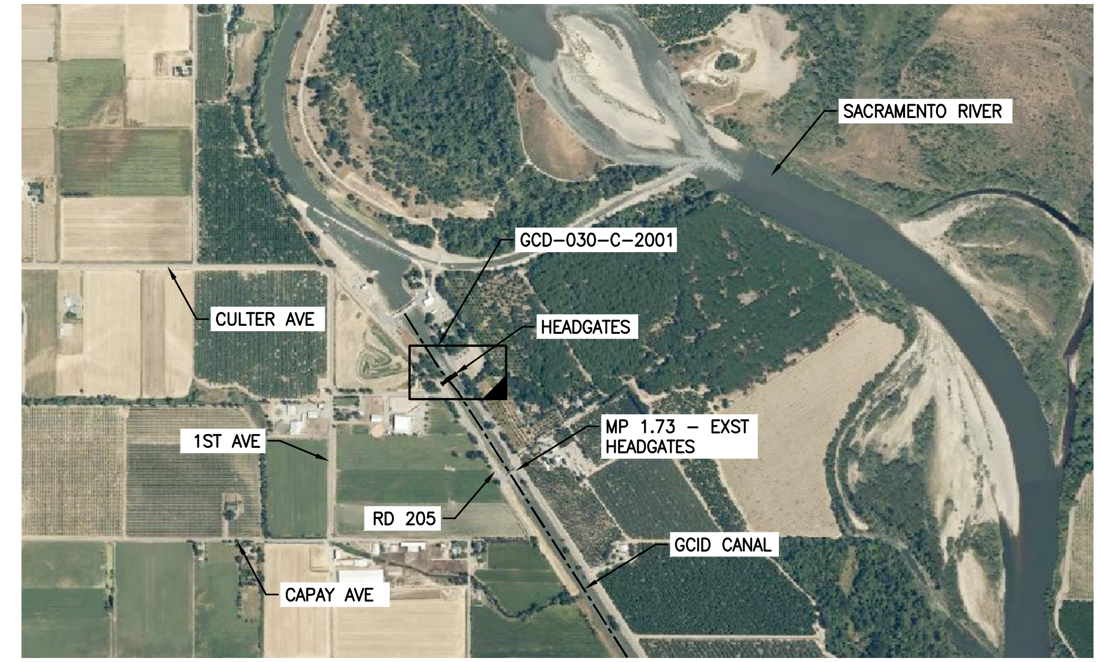
SHEET LIMIT

DRAWING NO.

LOWER LEFT CORNER OF SHEET

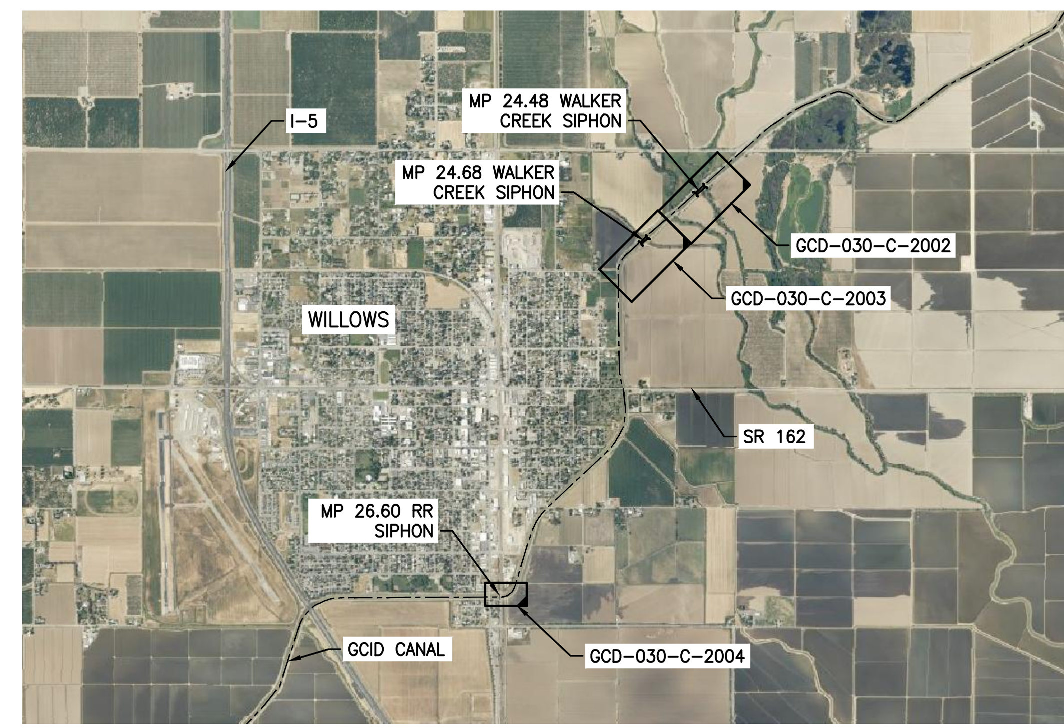
(A) CANAL IMPROVEMENT LOCATION LABEL, SEE DWG GCD-030-C-2301

MP MILE POST



NORTH

AREA 1 KEY PLAN
SCALE: NTS



NORTH

AREA 2 KEY PLAN
SCALE: NTS

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: B CHELONIS
DRAWN BY: J MILLER
CHECKED BY: J SMITH
IN CHARGE: P PRUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2
GCID MAIN CANAL
LOCATION MAP AND KEY PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
GCD-030-C-2000

PLOTTED BY:CAVE, DAVID/RDD –November 7, 2020–3:44:42 PM
DRAWING: GCD-030-C-2000_D3380600.dwg
JACOBS PROJECT # D3380600

0 30' 60'

1" = 30'

PLAN

SCALE: 1" = 30'

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: B CHELONIS

DRAWN BY: J MILLER

CHECKED BY: J SMITH

IN CHARGE: P PRUDE

DATE: 11-09-2020

JACOBS

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REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2

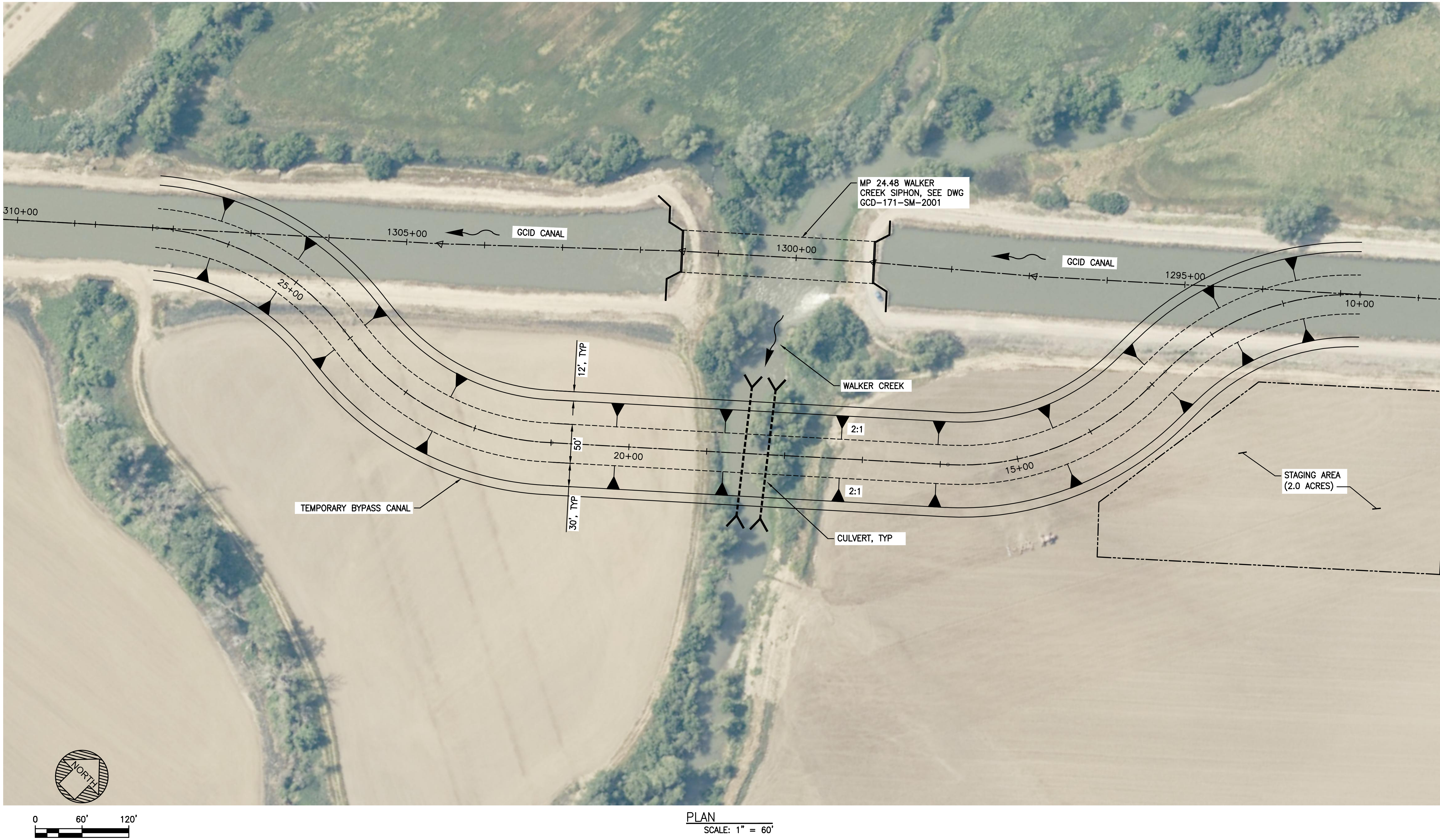
GCID MAIN CANAL
HEADGATES
SITE PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
GCD-030-C-2001

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:CHELONIS, BECKY/RDD –November 6, 2020–3:44:42 PM
DRAWING: GCD–030–C–2001_D3380600.dwg
JACOBS PROJECT # D3880600



PLAN
SCALE: 1" = 60'

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: B CHELONIS
DRAWN BY: J MILLER
CHECKED BY: J SMITH
IN CHARGE: P PRUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2
GCID MAIN CANAL
WALKER CREEK SIPHON
SITE PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
GCD-030-C-2002

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:CHELONIS, BECKY/RDD –November 6, 2020–3:44:42 PM
DRAWING: GCD-030-C-2002_D3380600.dwg
JACOBS PROJECT # D3380600

0 60' 120'
1" = 60'

PLAN
SCALE: 1" = 60'

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: B CHELONIS
DRAWN BY: J MILLER
CHECKED BY: J SMITH
IN CHARGE: P PRUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

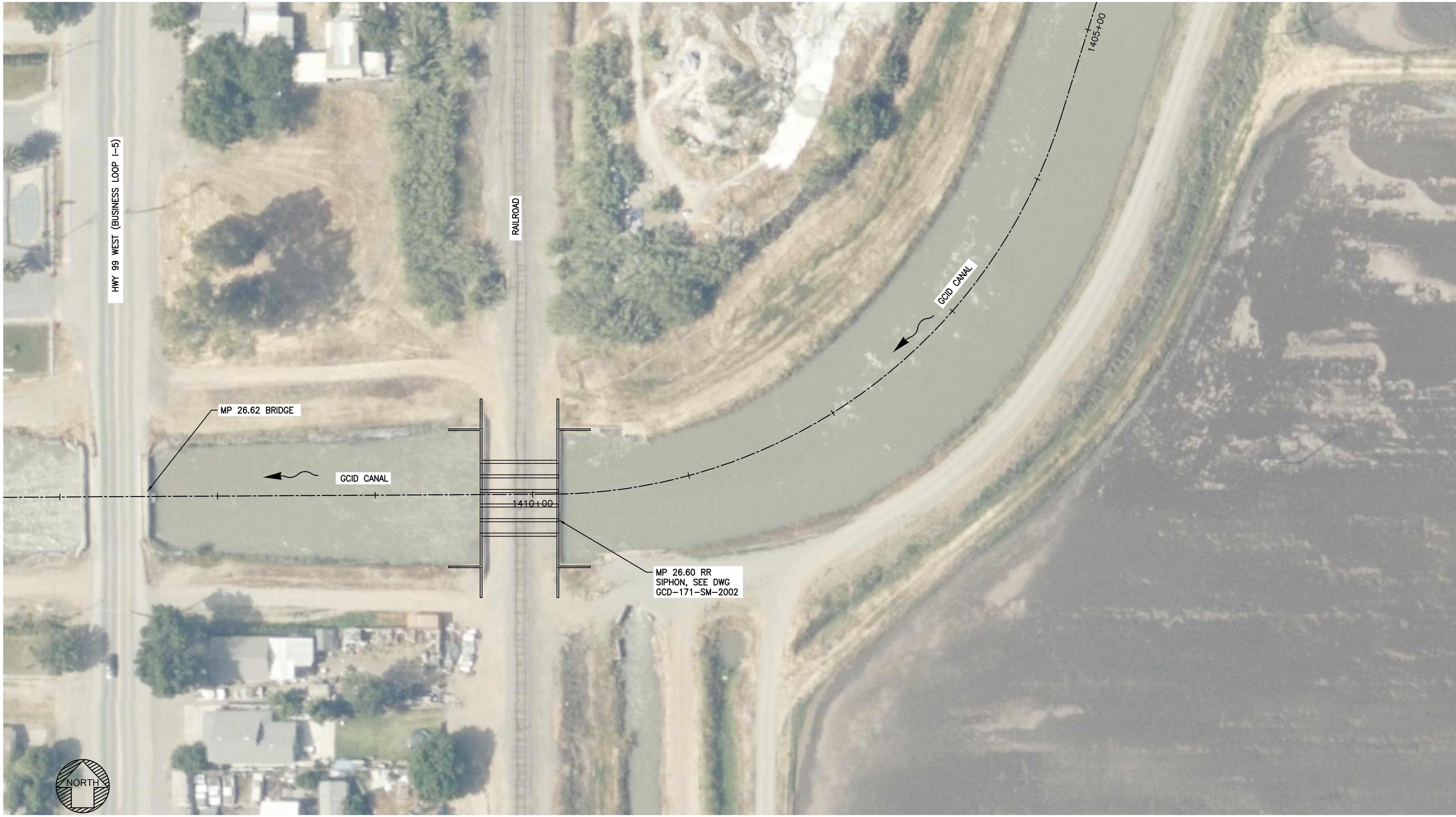
SITES RESERVOIR TO 2
GCID MAIN CANAL
WILLOW CREEK SIPHON
SITE PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
GCD-030-C-2003

PROJECT FEASIBILITY STUDY — NOT FOR CONSTRUCTION

PLOTTED BY:CHELONIS, BECKY/RDD -November 6, 2020-3:44:42 PM
DRAWING: GCD-030-C-2003_D3380600.dwg
JACOBS PROJECT # D3880600



0 30' 60'
1" = 30'

PLAN
SCALE: 1" = 30'

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY:	B CHELONIS
DRAWN BY:	J MILLER
CHECKED BY:	J SMITH
IN CHARGE:	P PRUDE
DATE:	11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

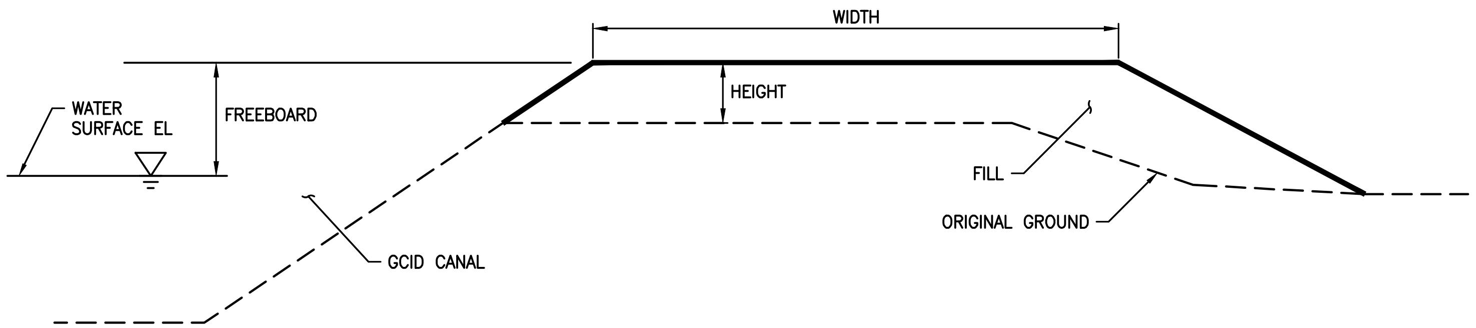
SITES RESERVOIR TO 2
GCID MAIN CANAL
RAILROAD CROSSING
SITE PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
GCD-030-C-2004

PROJECT FEASIBILITY STUDY — NOT FOR CONSTRUCTION

PLOTTED BY:CHELONIS, BECKY/RDD -November 6, 2020-3:44:42 PM
DRAWING: GCD-030-C-2004_D3380600.dwg
JACOBS PROJECT # D3380600



TYPICAL CANAL IMPROVEMENT SECTION
HORIZ SCALE: NTS

CANAL IMPROVEMENT TABLE

LOCATION	MILEPOST MARKER		FREEBOARD (FT)		FILL MEASUREMENT (FT)			VOLUME	
LABEL	START	END	CURRENT	REQUIRED	HEIGHT	LENGTH	WIDTH	CUBIC FEET	CUBIC YARDS
A	26.44	26.46	1.55	2.5	0.95	129	19	2328	86
B	29.89	29.97	1.70	2.5	0.80	409	30	9816	364
C	30.69	30.98	2.00	2.5	0.50	1516	43	32594	1207
D	31.37	31.43	1.60	2.5	0.90	259	26	6061	224
E	33.17	33.37	2.00	2.5	0.50	1033	29	14979	555
F	34.22	34.36	2.00	2.5	0.50	762	26	9906	367
G	34.42	34.55	1.60	2.5	0.90	662	23	13703	508
H	34.46	34.54	1.30	2.5	1.20	429	23	11840	439
I	34.55	34.57	1.60	2.5	0.90	74	24	1598	59
J	34.57	34.67	1.60	2.5	0.90	501	18	8116	301
K	34.66	34.79	1.00	2.5	1.50	640	24	23040	853
								TOTAL	4962

NOTE: FOR LOCATION LABEL SHOWN IN PLAN, SEE DWG GCD-030-C-2000

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: B CHELONIS
DRAWN BY: J MILLER
CHECKED BY: J SMITH
IN CHARGE: P PRUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

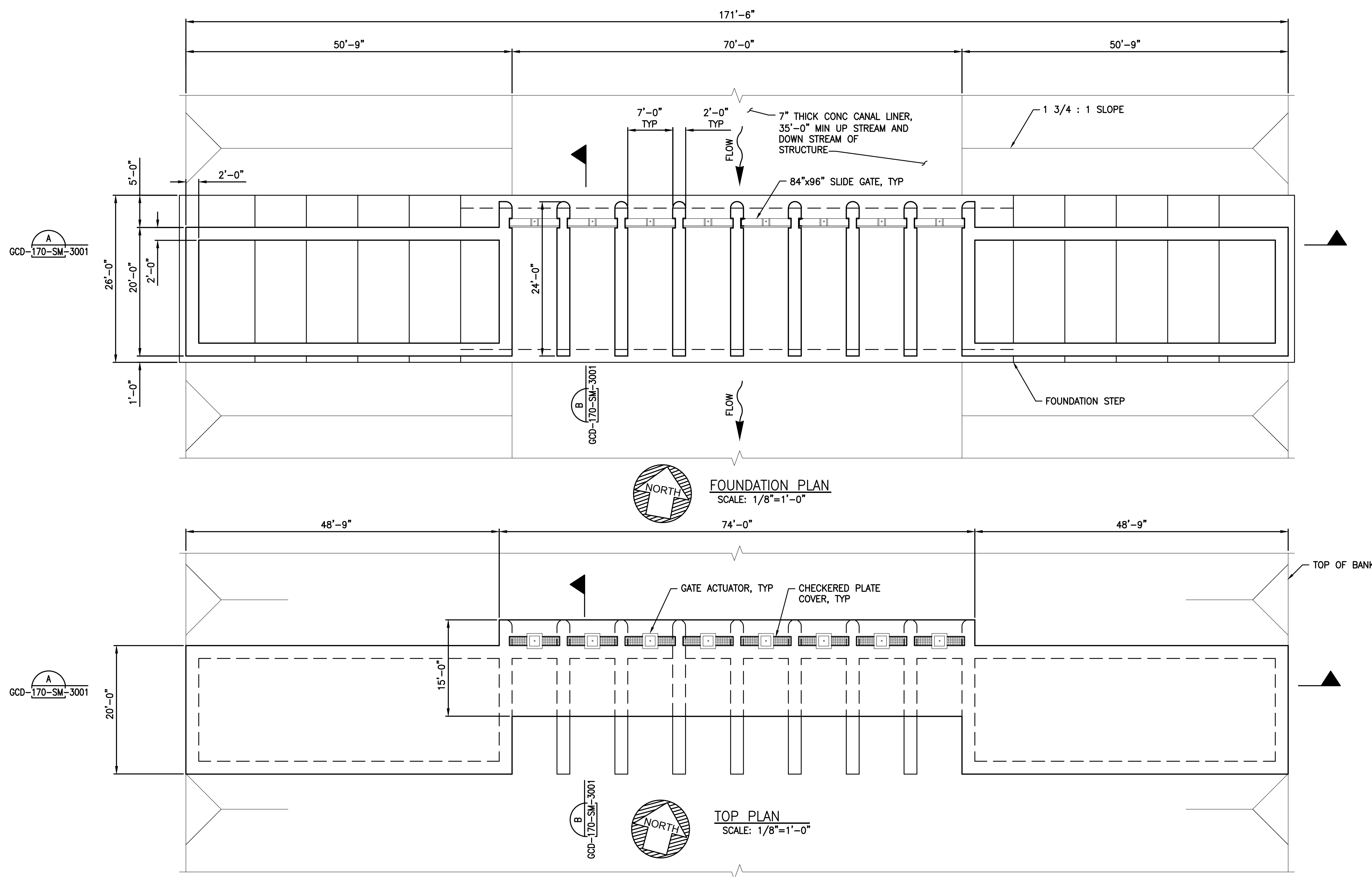
SITES RESERVOIR TO 2
GCID MAIN CANAL
BANK IMPROVEMENTS
SECTION

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
GCD-030-C-2301

PROJECT FEASIBILITY STUDY — NOT FOR CONSTRUCTION

PLOTTED BY:CHELONIS, BECKY/RDD -November 5, 2020-3:44:42 PM
DRAWING: GCD-030-C-2301_D3380600.dwg
JACOBS PROJECT # D3880600



PROJECT FEASIBILITY STUDY - NOT FOR CONSTRUCTION

PLOTTED BY:CAVE, DAVID/RDD –November 5, 2020–3:44:42 PM
DRAWING: GCD-170-SM-2001_D3380600.dwg
JACOBS PROJECT # D3380600

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: J KELLOGG
DRAWN BY: R CRUM
CHECKED BY: H HENRIKSON
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

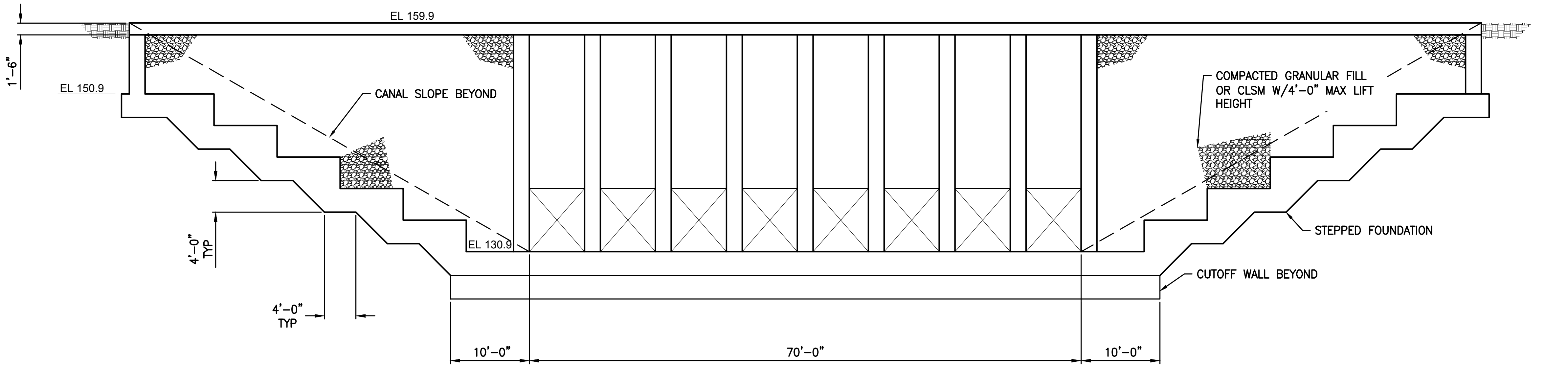
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

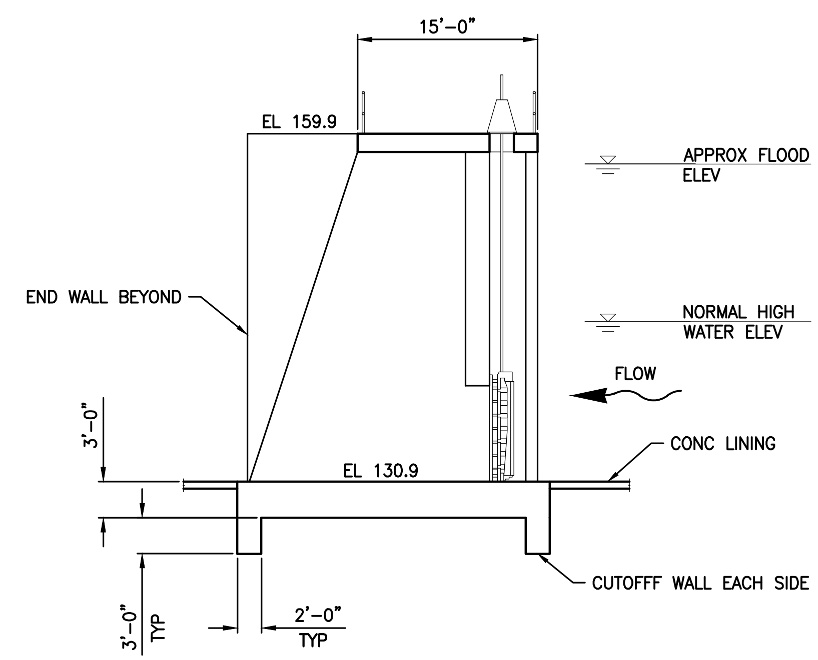
SITES RESERVOIR TO 2
GCID MAIN CANAL
HEADGATES STRUCTURE
FOUNDATION PLAN AND TOP PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
GCD-170-SM-2001



A | SECTION
GCD–170–SM–2001 | SCALE: 1/8"=1'–0"



B | SECTION
GCD–170–SM–2001 | SCALE: 1/8"=1'–0"

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: J KELLOGG
DRAWN BY: R CRUM
CHECKED BY: H HENRIKSON
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

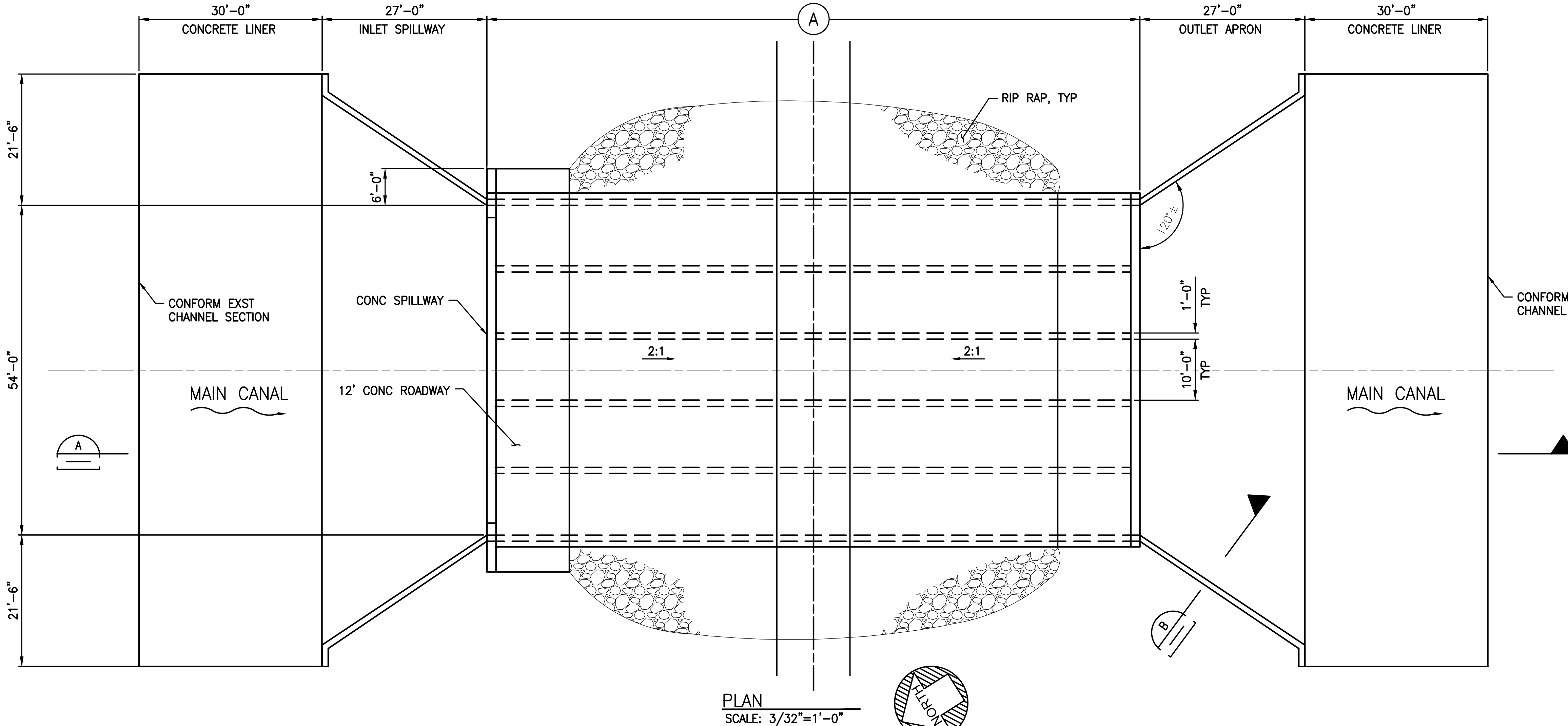
SITES RESERVOIR TO 2
GCID MAIN CANAL
HEADGATES STRUCTURE
SECTIONS

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

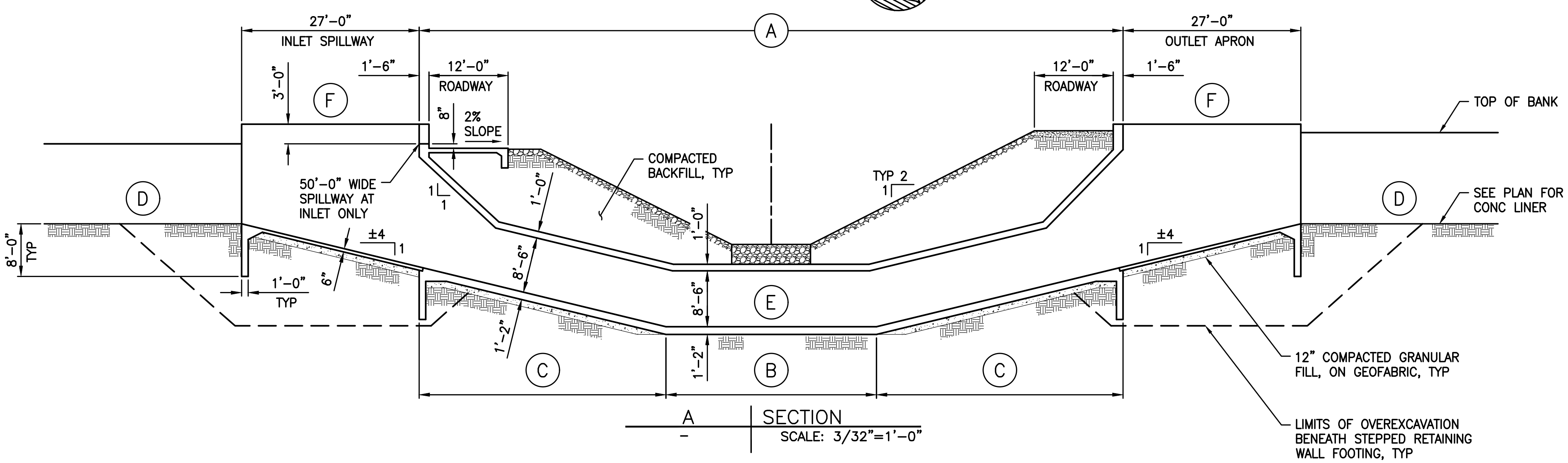
DRAWING NO.
GCD–170–SM–3001

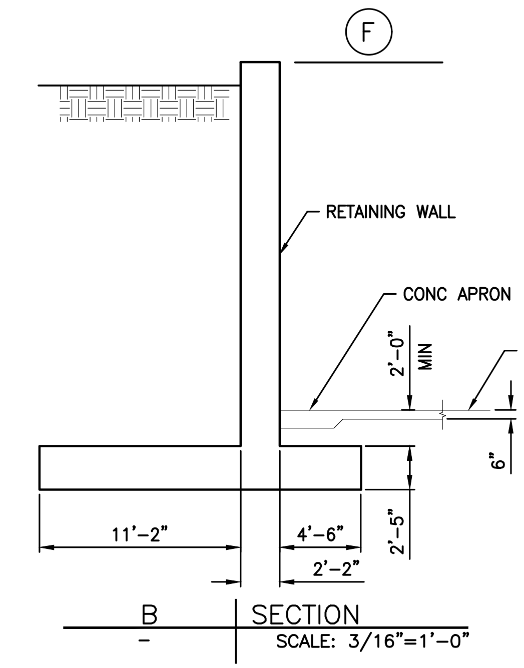
PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:CAVE, DAVID/RDD –November 5, 2020–3:44:42 PM
DRAWING: GCD–170–SM–3001_D3380600.dwg
JACOBS PROJECT # D3880600



	DIMENSION TABLE	
	WALKER SIPHON	WILLOW SIPHON
(A) OVERALL LENGTH	250'-0"	180'-0"
(B) BOTTOM LENGTH	200'-0"	150'-0"
(C) SLOPE LENGTH	25'-0"	15'-0"
(D) CANAL ELEVATION	EL 120.0	EL 119.6
(E) INVERT ELEVATION	EL 107.0	EL 109.1
(F) TOP OF WALL ELEVATION	EL 134.8	EL 134.5





PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: J KELLOGG
DRAWN BY: S METCALF
CHECKED BY: H HENRIKSON
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

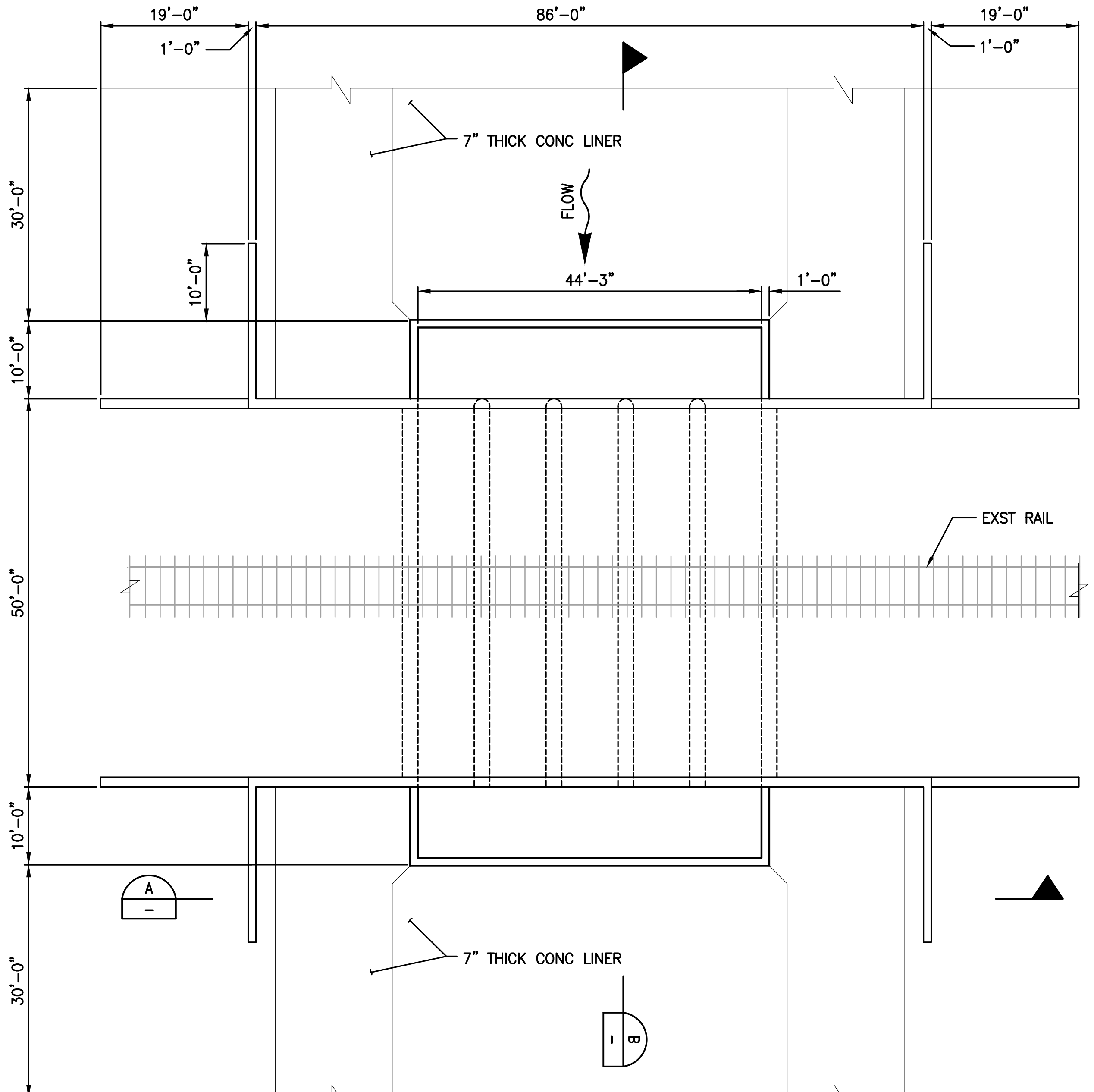
Sites

SITES RESERVOIR TO 2
GCID MAIN CANAL
TYPICAL SIPHON STRUCTURE
PLAN AND SECTION

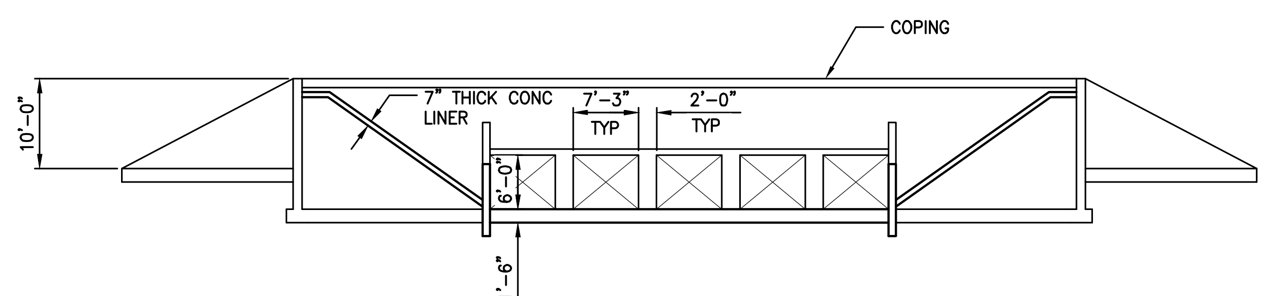
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
GCD-171-SM-2001

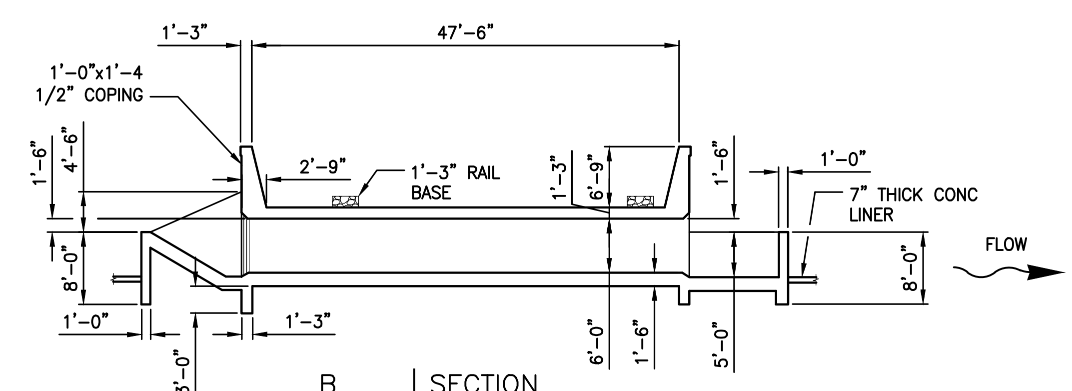
PLOTTED BY:CAVE, DAVID/RDD –November 5, 2020–3:44:42 PM
DRAWING: GCD-171-SM-2001_D3380600.dwg
JACOBS PROJECT # D3880600



PLAN
SCALE: 3/32"=1'-0"



A – SECTION
SCALE: 3/32"=1'-0"



B – SECTION
SCALE: 3/32"=1'-0"

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: J KELLOGG
DRAWN BY: N CRUM
CHECKED BY: H HENRIKSON
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

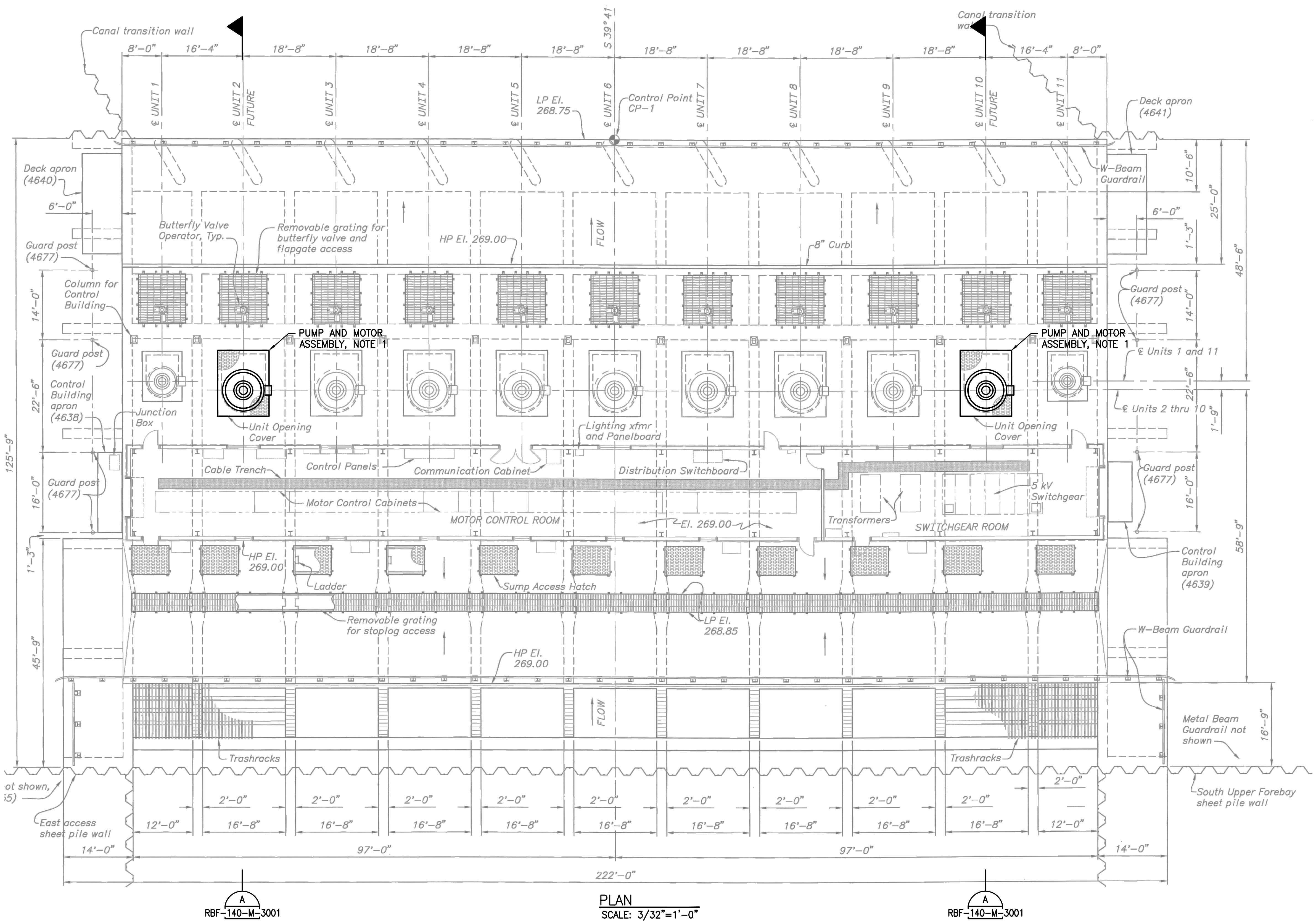
SITES RESERVOIR TO 2
GCID MAIN CANAL
SIPHON AT RAIL CROSSING
PLAN AND SECTIONS

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
GCD-171-SM-2002

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:CAVE, DAVID/RDD –November 5, 2020–3:44:42 PM
DRAWING: GCD-171-SM-2002_D3380600.dwg
JACOBS PROJECT # D3880600



PLAN
SCALE: 3/32"=1'–0"

NOTE:

1. SALVAGE EXISTING UNIT OPENING COVERS (NOT SHOWN) AT PUMP OPENINGS TO OWNER. FIELD–VERIFY EXISTING OPENING CONFIGURATION AND ANCHORAGE, AND COORDINATE DESIGN OF NEW PUMPS AS REQUIRED TO FIT.

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: M RIESS
DRAWN BY: D CAVE
CHECKED BY: W MISSLIN
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2
RED BLUFF
PUMPING PLANT
PLAN

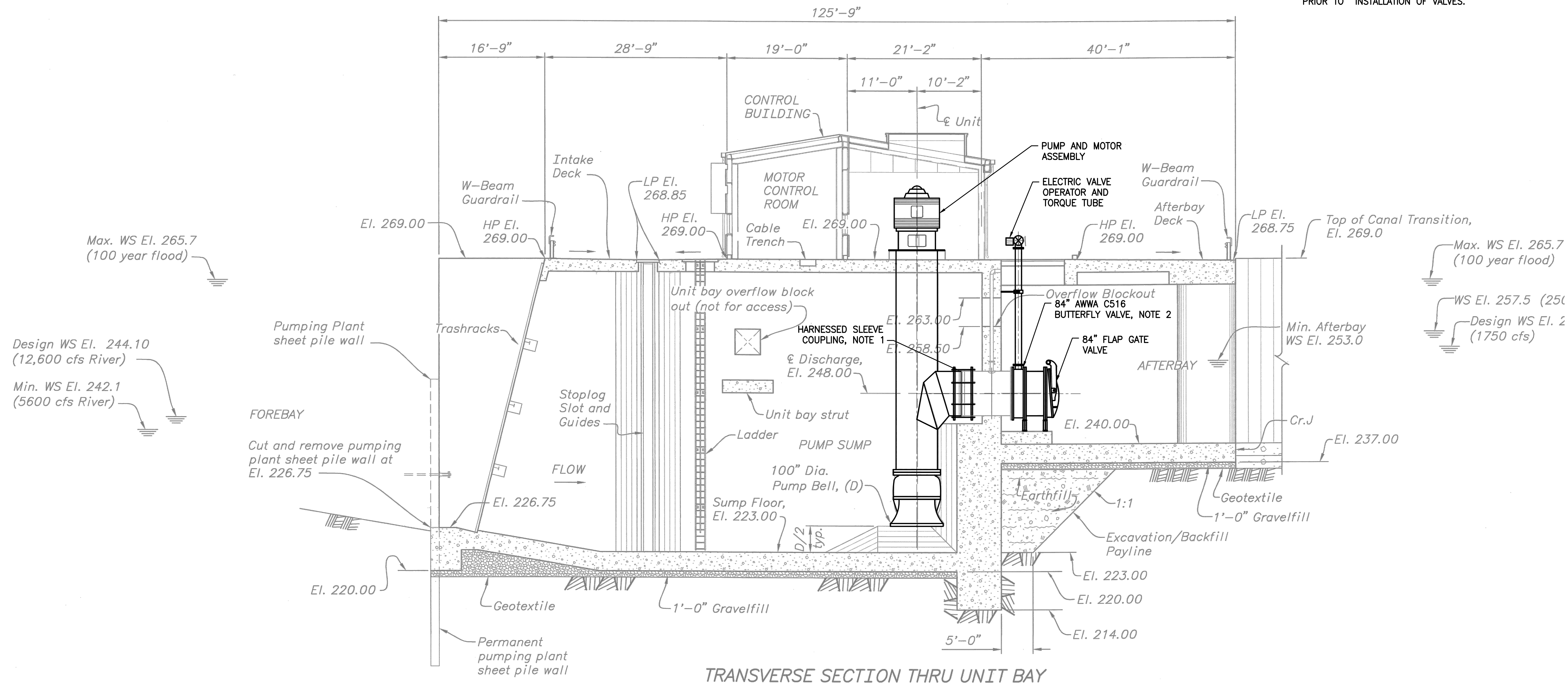
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
RBF–140–SM–2001

PLOTTED BY:CAVE, DAVID/RDD –November 5, 2020–3:44:42 PM
DRAWING: RBF–140–SM–2001_D3380600.dwg
JACOBS PROJECT # D3880600

NOTES

1. FIELD-VERIFY EXISTING HARNESS LUG CONFIGURATION. PROVIDE NEW PUMPS WITH MATCHING HARNESS LUGS.
2. DEMOLISH EXISTING BLIND FLANGES (NOT SHOWN) PRIOR TO INSTALLATION OF VALVES.



TRANSVERSE SECTION THRU UNIT BAY

A | SECTION
RBF–140–M–2001 | SCALE: 1/8"=1'–0"

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: M RIESS
DRAWN BY: D CAVE
CHECKED BY: W MISSLIN
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

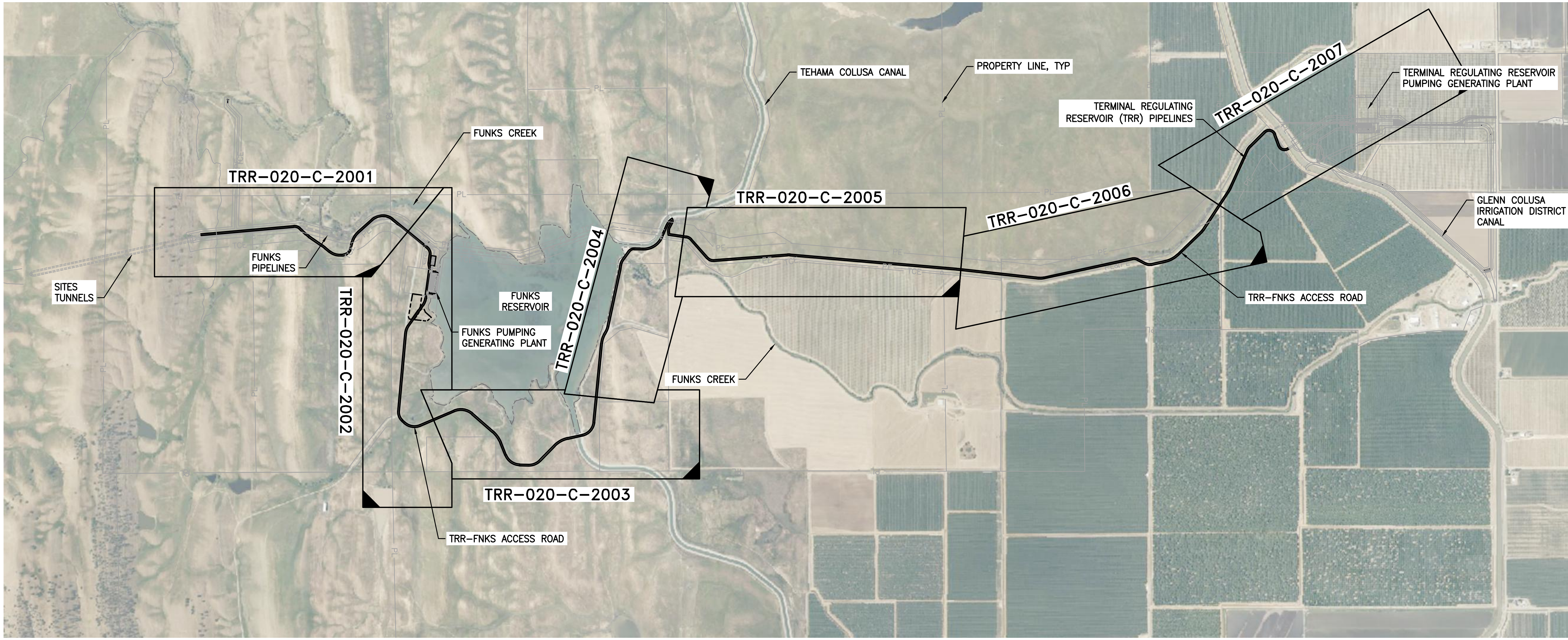
Sites

SITES RESERVOIR TO 2
RED BLUFF
PUMPING PLANT
SECTION

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
RBF–140–SM–3001

PLOTTED BY:CAVE, DAVID/RDD –November 5, 2020–3:44:42 PM
DRAWING: RBF–140–SM–3001_D3380600.dwg
JACOBS PROJECT # D3380600



KEY PLAN
SCALE: 1" = 1000'

0 1000' 2000'
1" = 1000'
NORTH

PLAN AND PROFILE DRAWING NUMBER

TRR-020-C-2001

INDICATES LOWER RIGHT CORNER OF PLAN VIEW

PROJECT FEASIBILITY STUDY — NOT FOR CONSTRUCTION

PLOTTED BY:CHELONIS, BECKY/RDD –November 5, 2020–3:44:42 PM
DRAWING: TRR-020-C-2000_D3380600.dwg
JACOBS PROJECT # D3380600

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY:	B CHELONIS
DRAWN BY:	B CHELONIS
CHECKED BY:	A KELLOGG
IN CHARGE:	P RUDE
DATE:	11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

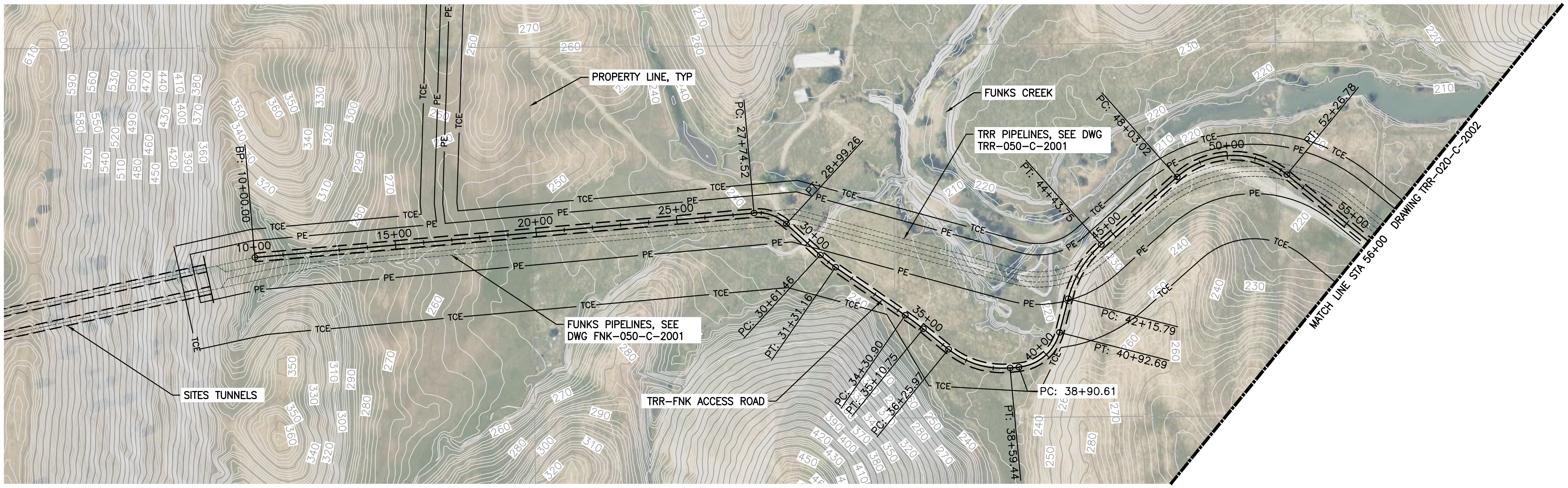
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

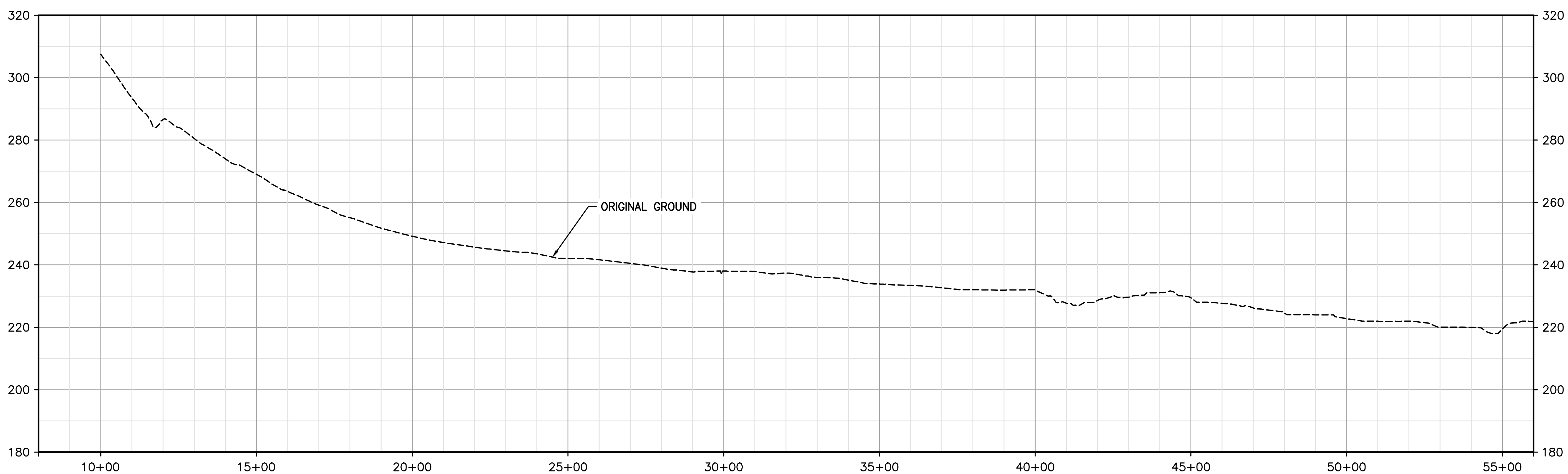
SITES RESERVOIR TO 2
TERMINAL REGULATING RESERVOIR EAST ACCESS ROAD KEY PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
TRR-020-C-2000



PLAN
SCALE: 1" = 200'



PROFILE
HORIZ SCALE: 1" = 200'
VERT SCALE: 1" = 20'

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: B CHELONIS
DRAWN BY: B CHELONIS
CHECKED BY: A KELLOGG
IN CHARGE: P PRUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

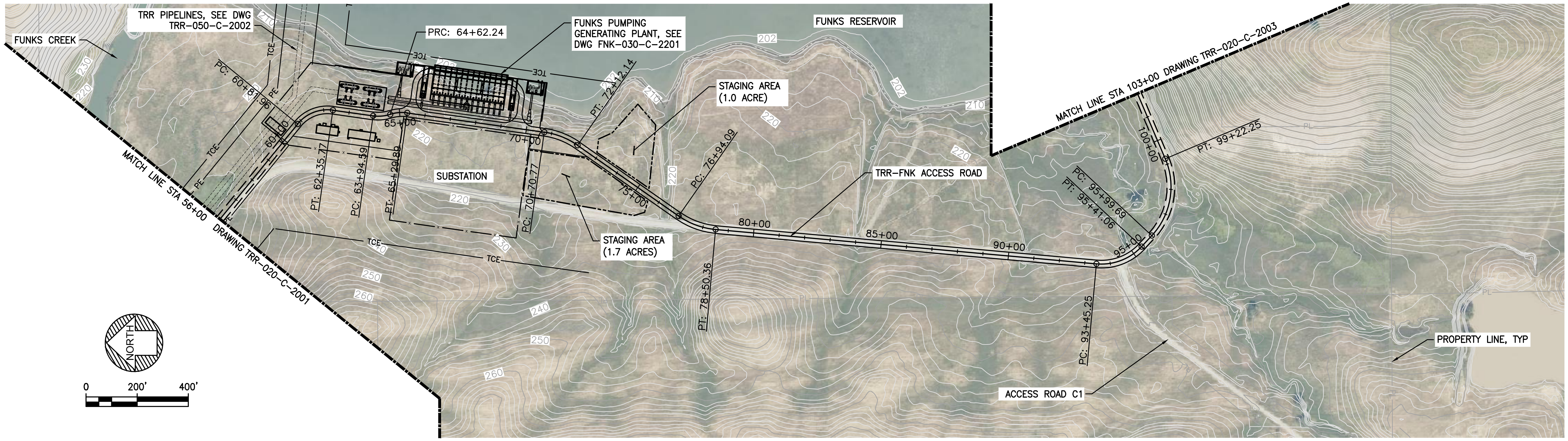
SITES RESERVOIR TO 2
TERMINAL REGULATING RESERVOIR EAST ACCESS ROAD PLAN AND PROFILE STA 10+00 TO 56+00

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

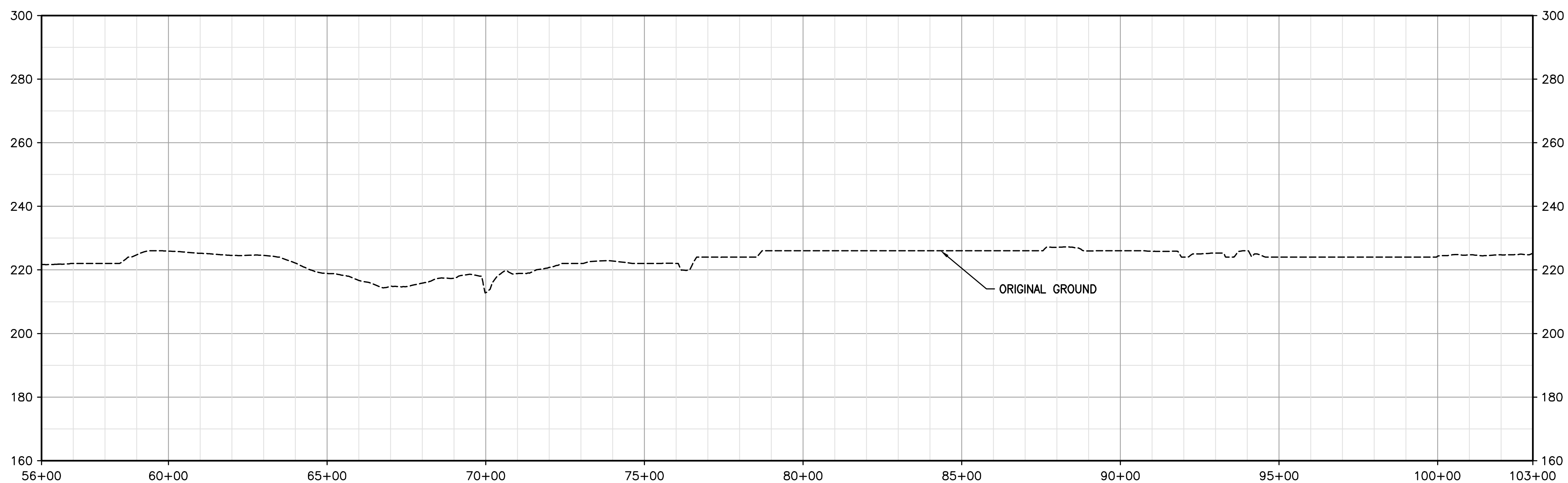
DRAWING NO.
TRR-020-C-2001

PROJECT FEASIBILITY STUDY — NOT FOR CONSTRUCTION

PLOTTED BY:CHELONIS, BECKY/RDD -November 5, 2020-3:44:42 PM
DRAWING: TRR-020-C-2001_D3380600.dwg
JACOBS PROJECT # D3380600



PLAN
SCALE: 1" = 200'



PROFILE
HORIZ SCALE: 1" = 200'
VERT SCALE: 1" = 20'

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: B CHELONIS
DRAWN BY: B CHELONIS
CHECKED BY: A KELLOGG
IN CHARGE: P PRUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

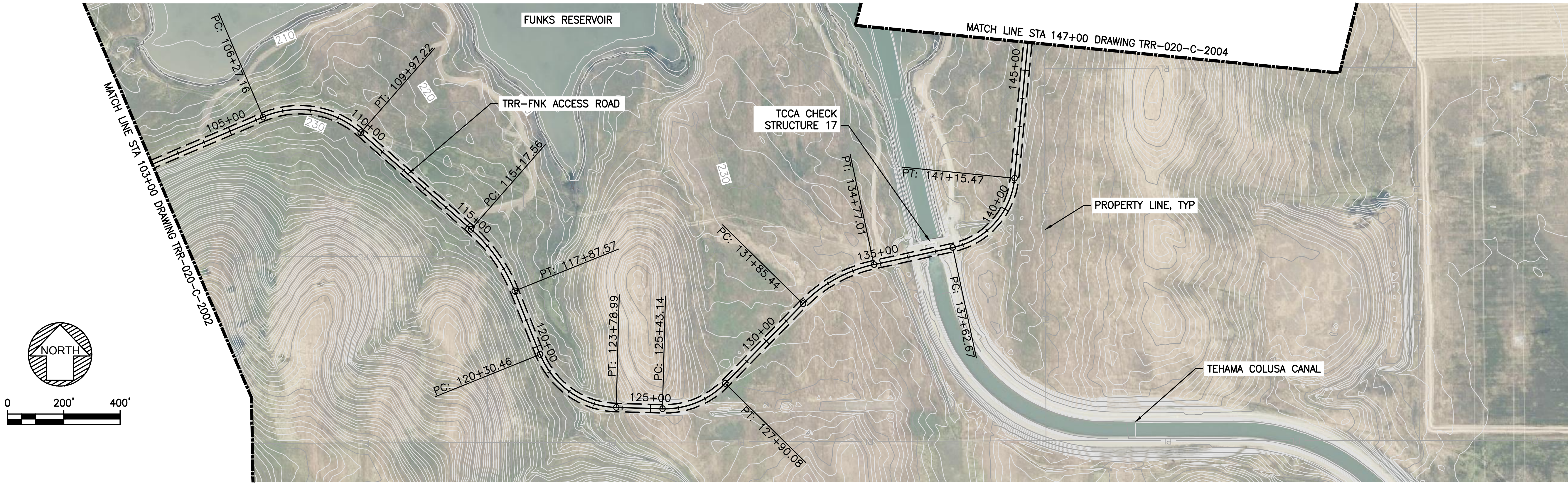
SITES RESERVOIR TO 2
TERMINAL REGULATING RESERVOIR EAST
ACCESS ROAD PLAN AND PROFILE
STA 56+00 TO 103+00

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

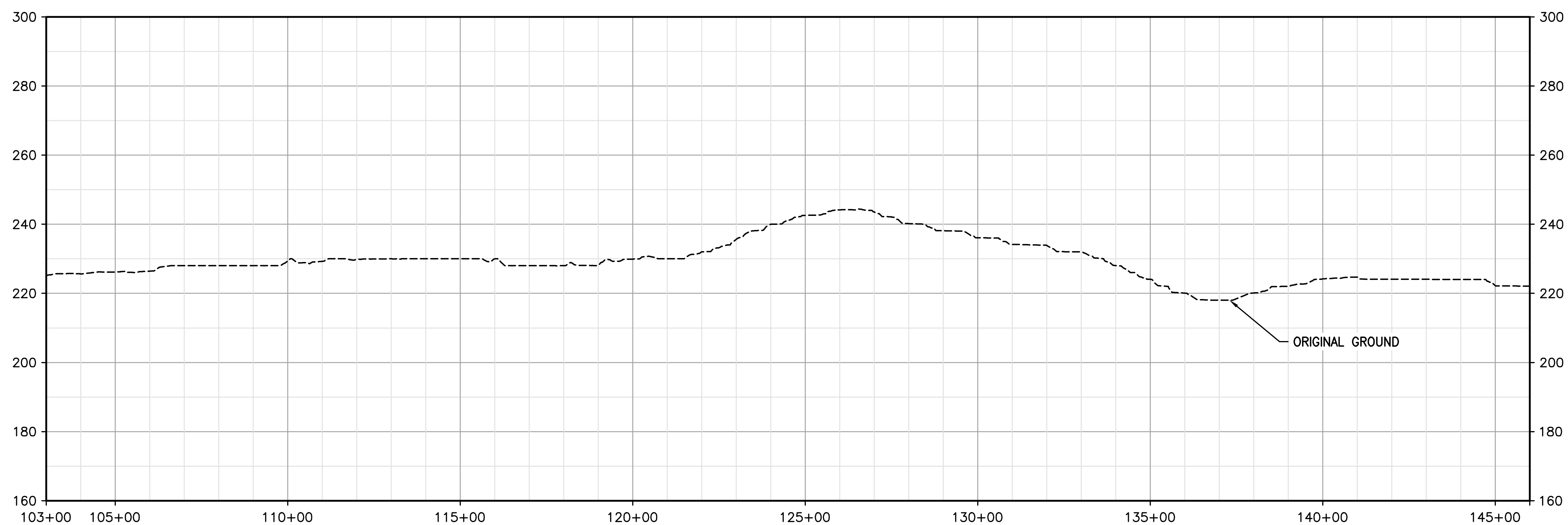
DRAWING NO.
TRR-020-C-2002

PROJECT FEASIBILITY STUDY — NOT FOR CONSTRUCTION

PLOTTED BY:CHELONIS, BECKY/RDD -November 6, 2020-3:44:42 PM
DRAWING: TRR-020-C-2002_D3380600.dwg
JACOBS PROJECT # D3880600



PLAN
SCALE: 1" = 200'



PROFILE
HORIZ SCALE: 1" = 200'
VERT SCALE: 1" = 20'

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: B CHELONIS
DRAWN BY: B CHELONIS
CHECKED BY: A KELLOGG
IN CHARGE: P PRUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

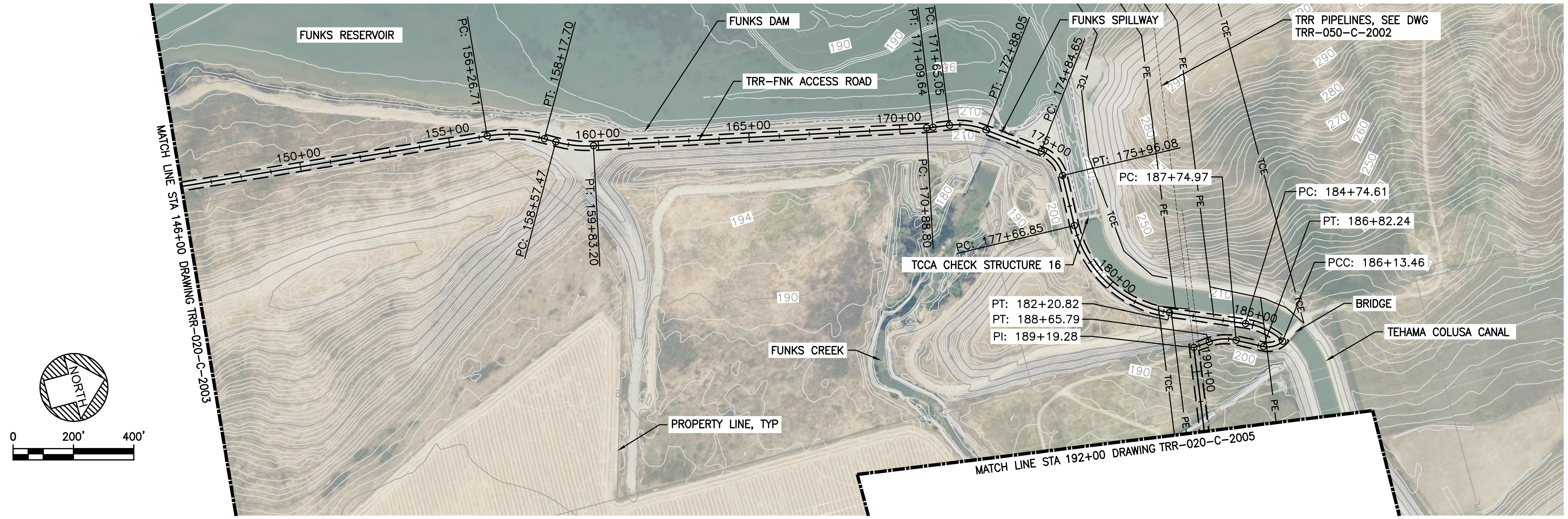
SITES RESERVOIR TO 2
TERMINAL REGULATING RESERVOIR EAST ACCESS ROAD PLAN AND PROFILE STA 103+00 TO 146+00

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

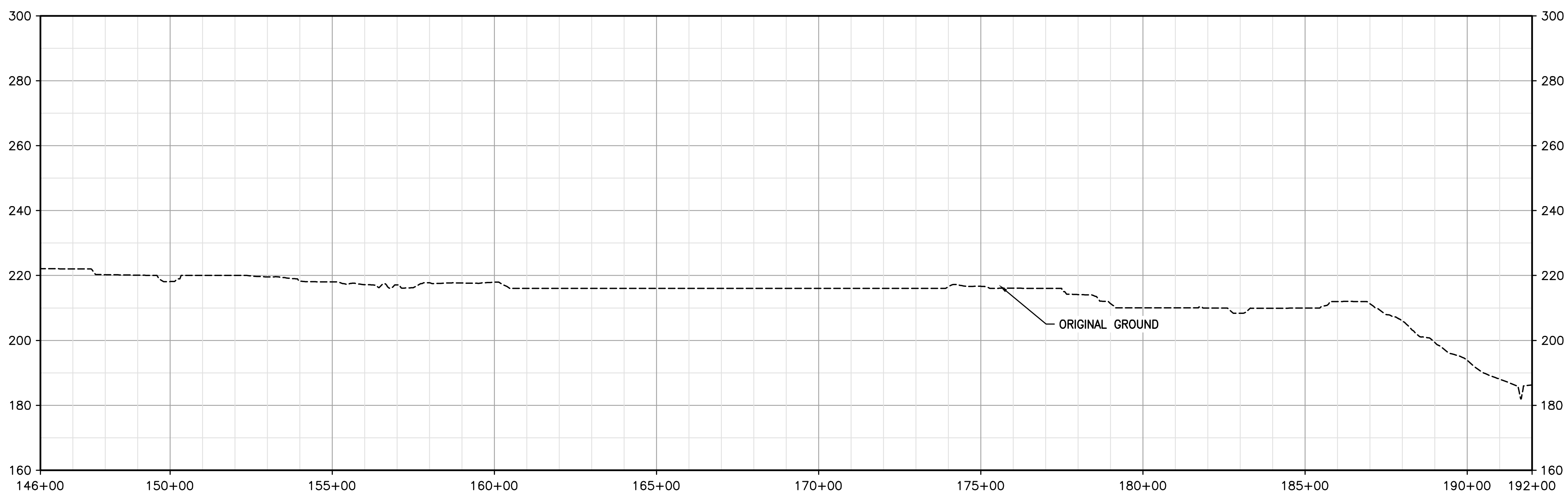
DRAWING NO.
TRR-020-C-2003

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:CHELONIS, BECKY/RDD –November 5, 2020–3:44:42 PM
DRAWING: TRR-020-C-2003_D3380600.dwg
JACOBS PROJECT # D3380600



PLAN
SCALE: 1" = 200'



PROFILE
HORIZ SCALE: 1" = 200'
VERT SCALE: 1" = 20'

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: B CHELONIS
DRAWN BY: B CHELONIS
CHECKED BY: A KELLOGG
IN CHARGE: P PRUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

Sites

SITES RESERVOIR TO 2
TERMINAL REGULATING RESERVOIR EAST
ACCESS ROAD PLAN AND PROFILE
STA 146+00 TO 192+00

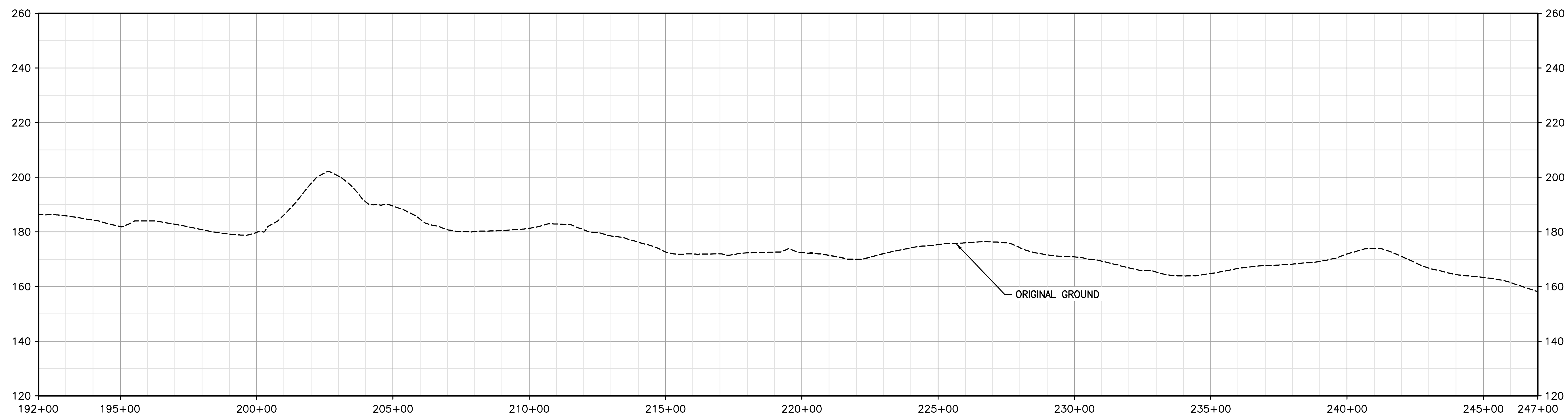
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
TRR-020-C-2004

PROJECT FEASIBILITY STUDY — NOT FOR CONSTRUCTION

PLOTTED BY:CHELONIS, BECKY/RDD -November 5, 2020-3:44:42 PM
DRAWING: TRR-020-C-2004_D3380600.dwg
JACOBS PROJECT # D3380600

PLAN
SCALE: 1" = 200'



PROFILE
HORIZ SCALE: 1" = 200'
VERT SCALE: 1" = 20'

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: B CHELONIS
DRAWN BY: B CHELONIS
CHECKED BY: A KELLOGG
IN CHARGE: P PRUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

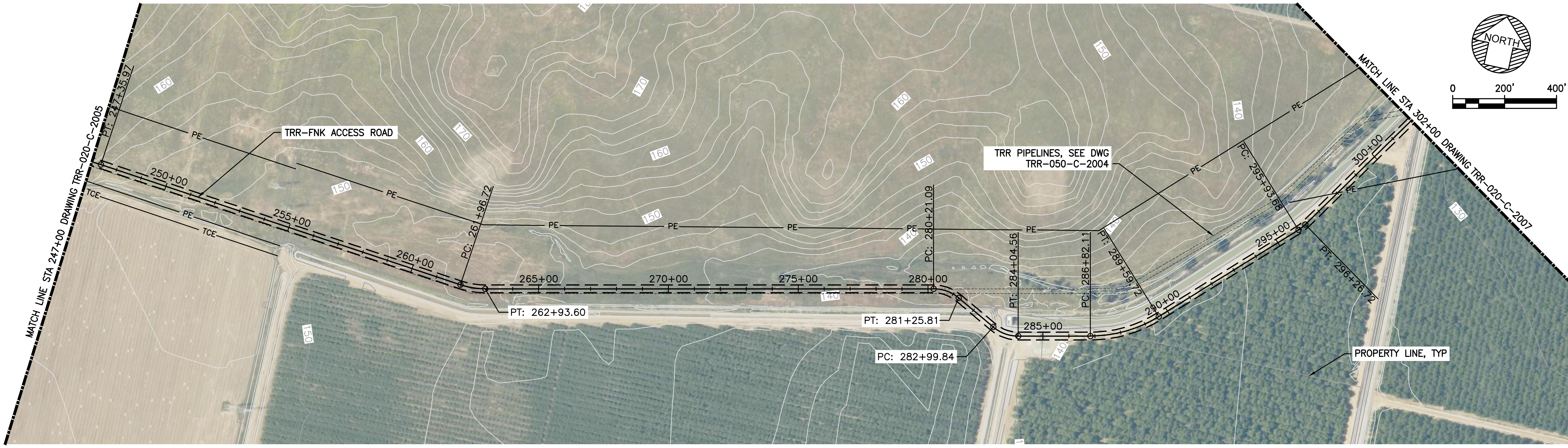
SITES RESERVOIR TO 2
TERMINAL REGULATING RESERVOIR EAST
ACCESS ROAD PLAN AND PROFILE
STA 192+00 TO 247+00

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
TRR-020-C-2005

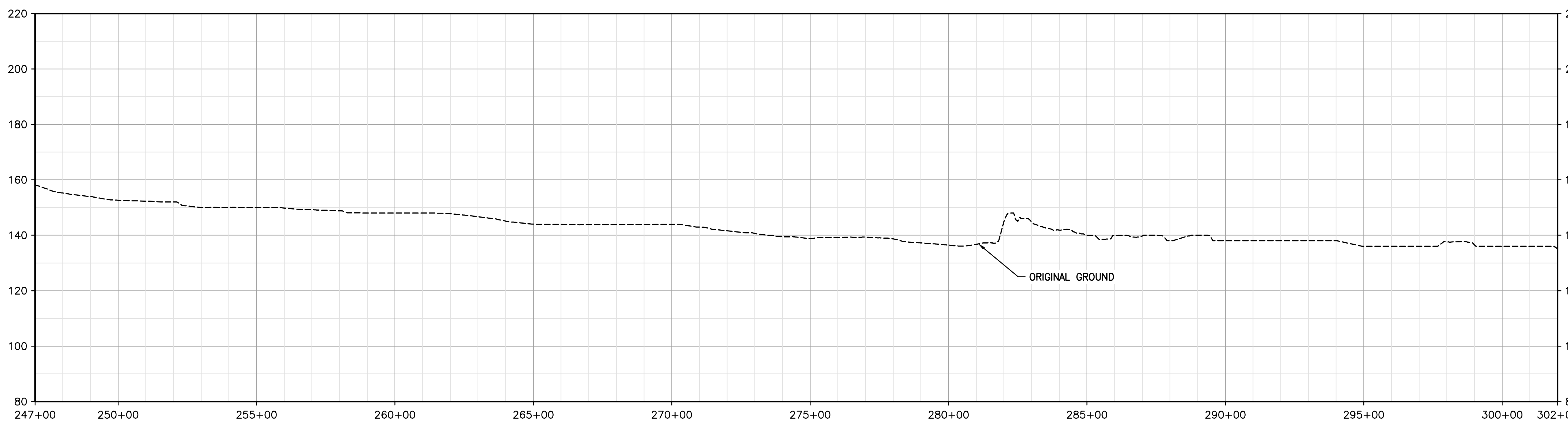
PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:CHELONIS, BECKY/RDD -November 5, 2020-3:44:42 PM
DRAWING: TRR-020-C-2005_D3380600.dwg
JACOBS PROJECT # D3380600



PLAN

SCALE: 1" = 200'



PROFILE

HORIZ SCALE: 1" = 200'
VERT SCALE: 1" = 20'

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: B CHELONIS
DRAWN BY: B CHELONIS
CHECKED BY: A KELLOGG
IN CHARGE: P PRUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

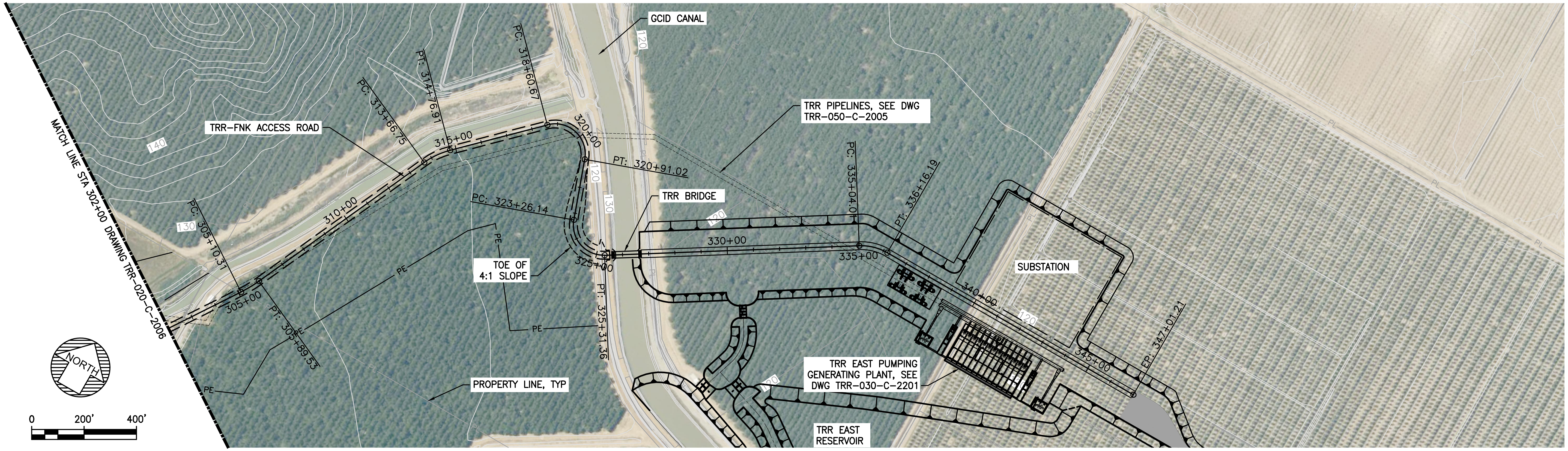
SITES RESERVOIR TO 2
TERMINAL REGULATING RESERVOIR EAST ACCESS ROAD PLAN AND PROFILE
STA 247+00 TO 302+00

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

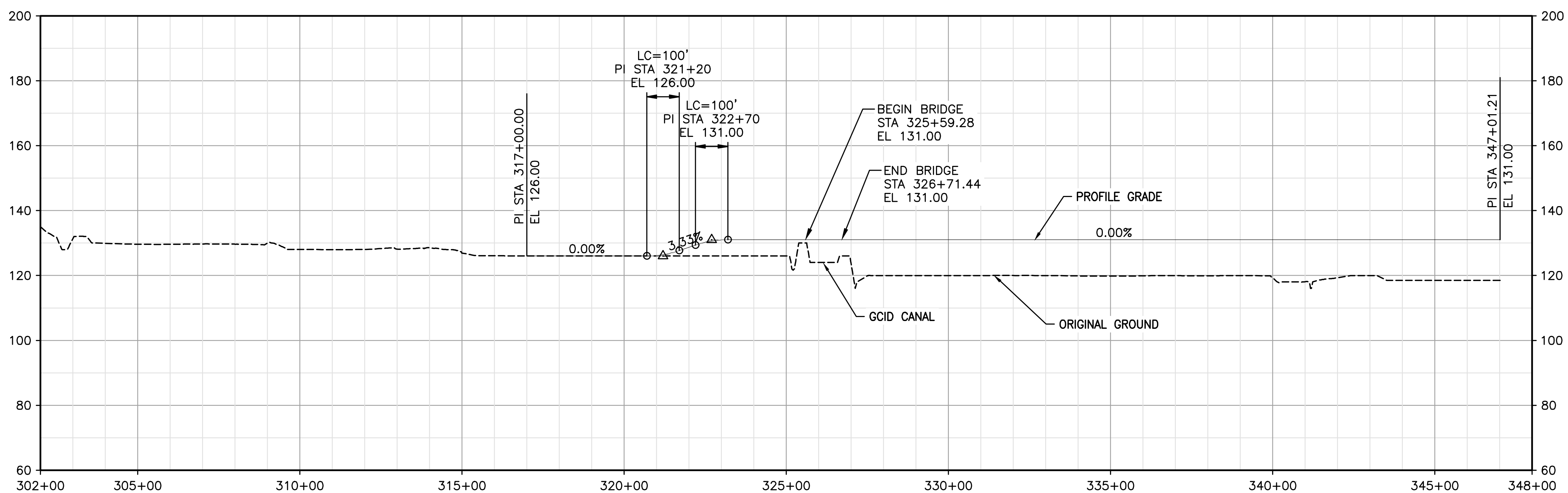
DRAWING NO.
TRR-020-C-2006

PROJECT FEASIBILITY STUDY — NOT FOR CONSTRUCTION

PLOTTED BY:CHELONIS, BECKY/RDD -November 5, 2020-3:44:42 PM
DRAWING: TRR-020-C-2006_D3380600.dwg
JACOBS PROJECT # D3880600



PLAN
SCALE: 1" = 200'



PROFILE
HORIZ SCALE: 1" = 200'
VERT SCALE: 1" = 20'

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: B CHELONIS
DRAWN BY: B CHELONIS
CHECKED BY: A KELLOGG
IN CHARGE: P PRUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

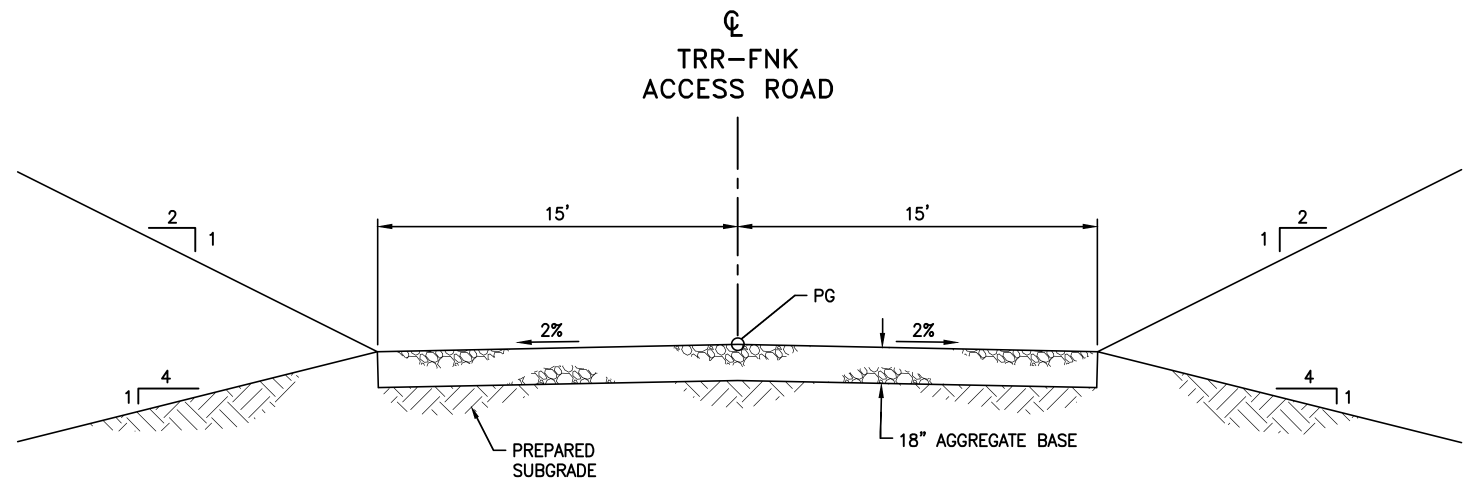
SITES RESERVOIR TO 2
TERMINAL REGULATING RESERVOIR EAST ACCESS ROAD PLAN AND PROFILE STA 302+00 TO 347+01

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
TRR-020-C-2007

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

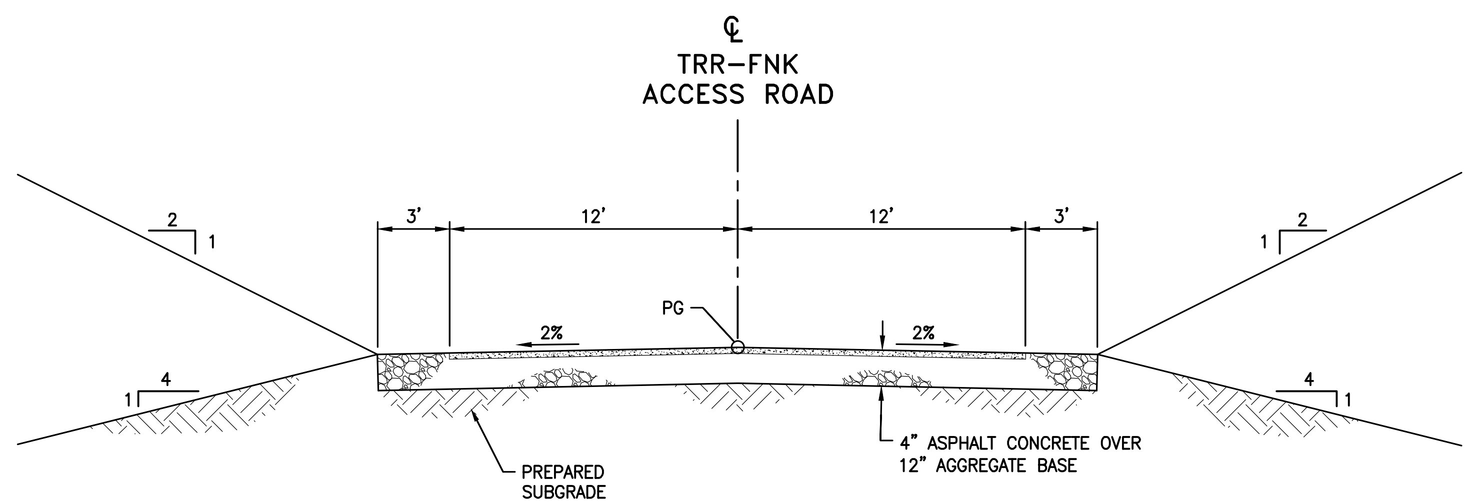
PLOTTED BY:CHELONIS, BECKY/RDD –November 9, 2020–3:44:42 PM
DRAWING: TRR-020-C-2007_D3380600.dwg
JACOBS PROJECT # D3880600



STA: 10+00.00 TO 59+85.61
STA: 95+41.06 TO 325+58.28
STA: 326+71.44 TO 347+01.21

UNPAVED ACCESS ROAD TYPICAL SECTION

SCALE: NTS



STA: 59+85.61 TO 95+41.06

PAVED ACCESS ROAD TYPICAL SECTION

SCALE: NTS

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY:	B CHELONIS
DRAWN BY:	J MILLER
CHECKED BY:	A KELLOGG
IN CHARGE:	P RUDE
DATE:	11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

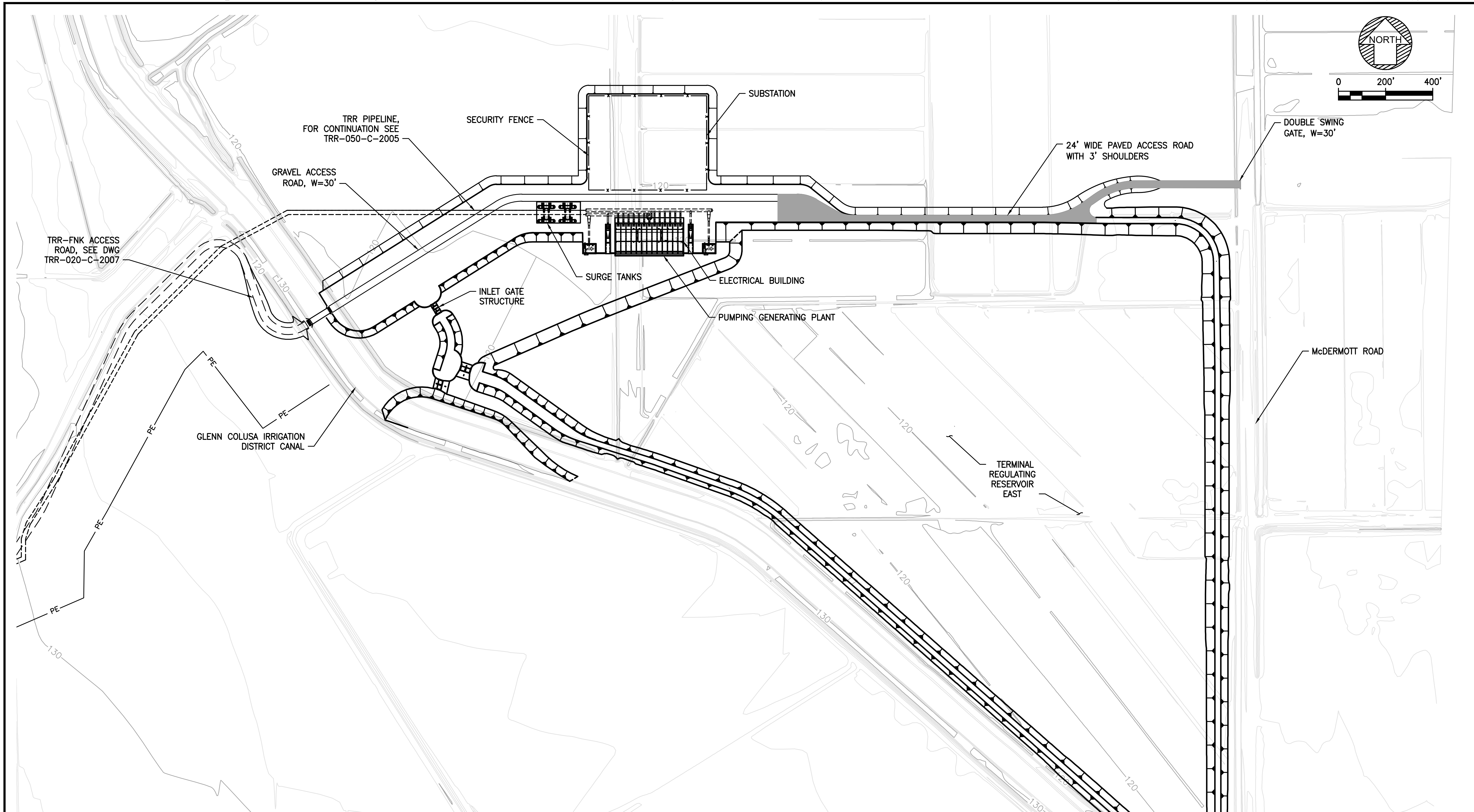
SITES RESERVOIR TO 2
TERMINAL REGULATING RESERVOIR EAST
ACCESS ROAD TYPICAL SECTIONS

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
TRR-020-C-3001

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:MILLER, JARVIS –November 5, 2020–3:44:42 PM
DRAWING: TRR-020-C-3001_D3380600.dwg
JACOBS PROJECT # D3880600



PLAN
SCALE: 1" = 200'

PLOTTED BY:CAVE, DAVID/RDD -November 7, 2020-3:44:42 PM
DRAWING: TRR-030-C-2201_D3380600.dwg
JACOBS PROJECT # D3380600

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: A KELLOGG
DRAWN BY: K BISHOP
CHECKED BY: J SMITH
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

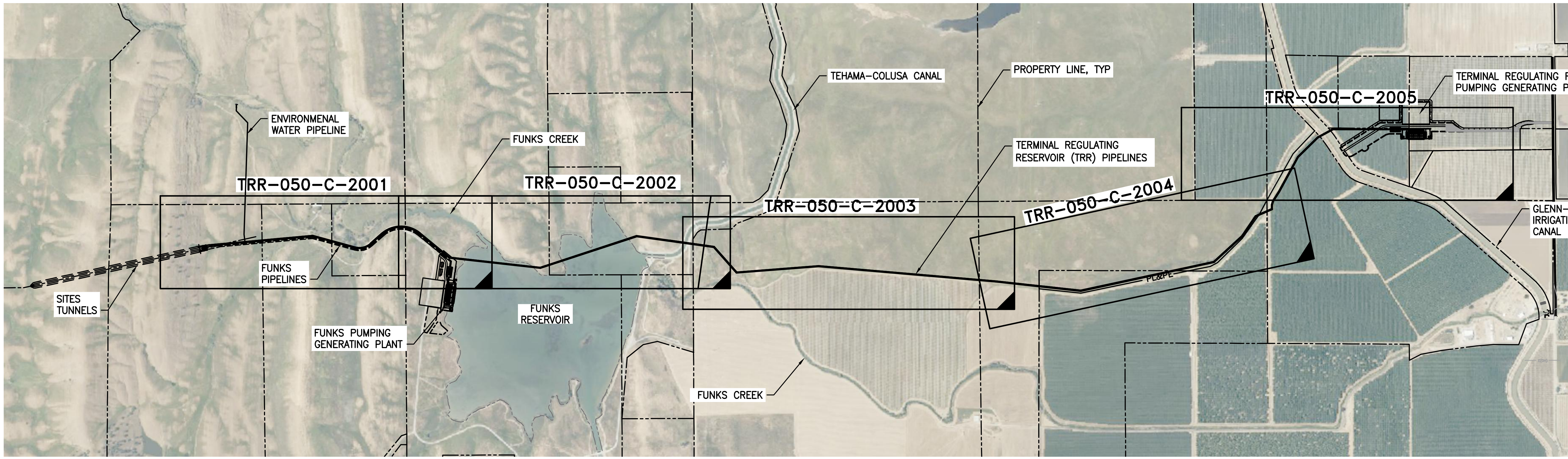
Sites

SITES RESERVOIR TO 2
TERMINAL REGULATING RESERVOIR EAST
PUMPING GENERATING PLANT
SITE PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

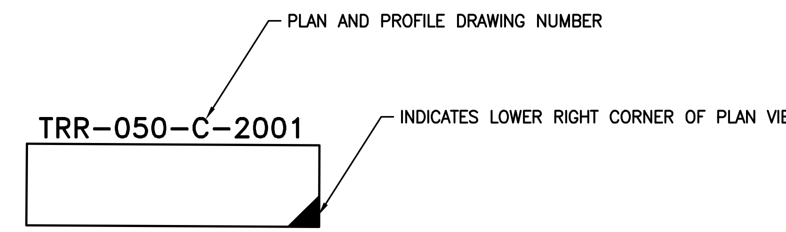
DRAWING NO.
TRR-030-C-2201

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION



KEY PLAN
SCALE: 1" = 1000'

0 1000' 2000'
1" = 1000'
NORTH



PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:SMITH, JOEL/RDD –November 4, 2020–3:44:42 PM
DRAWING: TRR-050-C-2000_D3380600.dwg
JACOBS PROJECT # D3380600

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: N MASCHKE
DRAWN BY: JP SMITH
CHECKED BY: JF SMITH
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

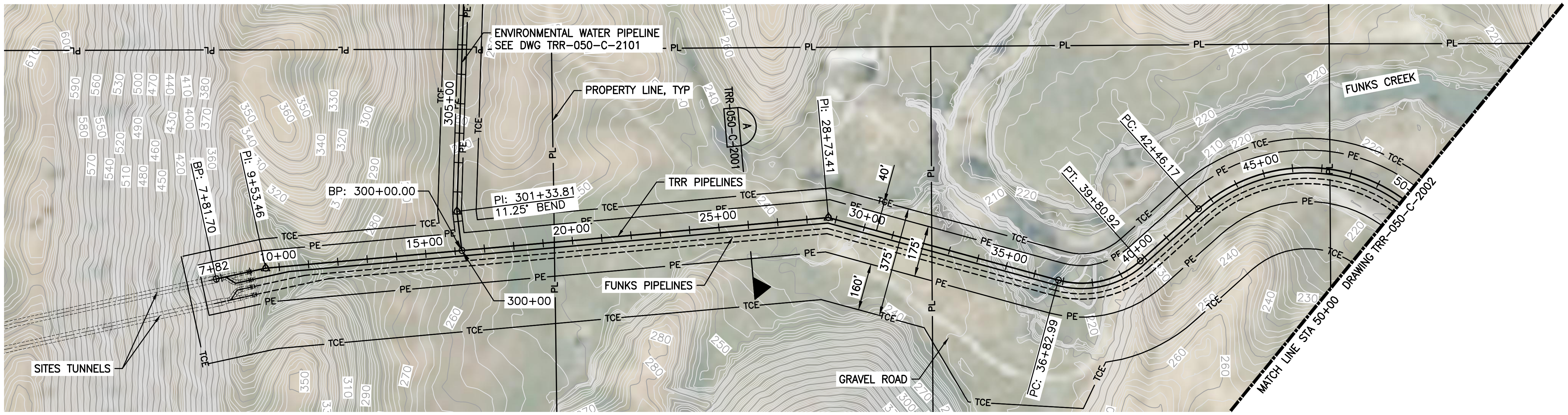
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2
TERMINAL REGULATING RESERVOIR EAST
PIPELINE
KEY PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

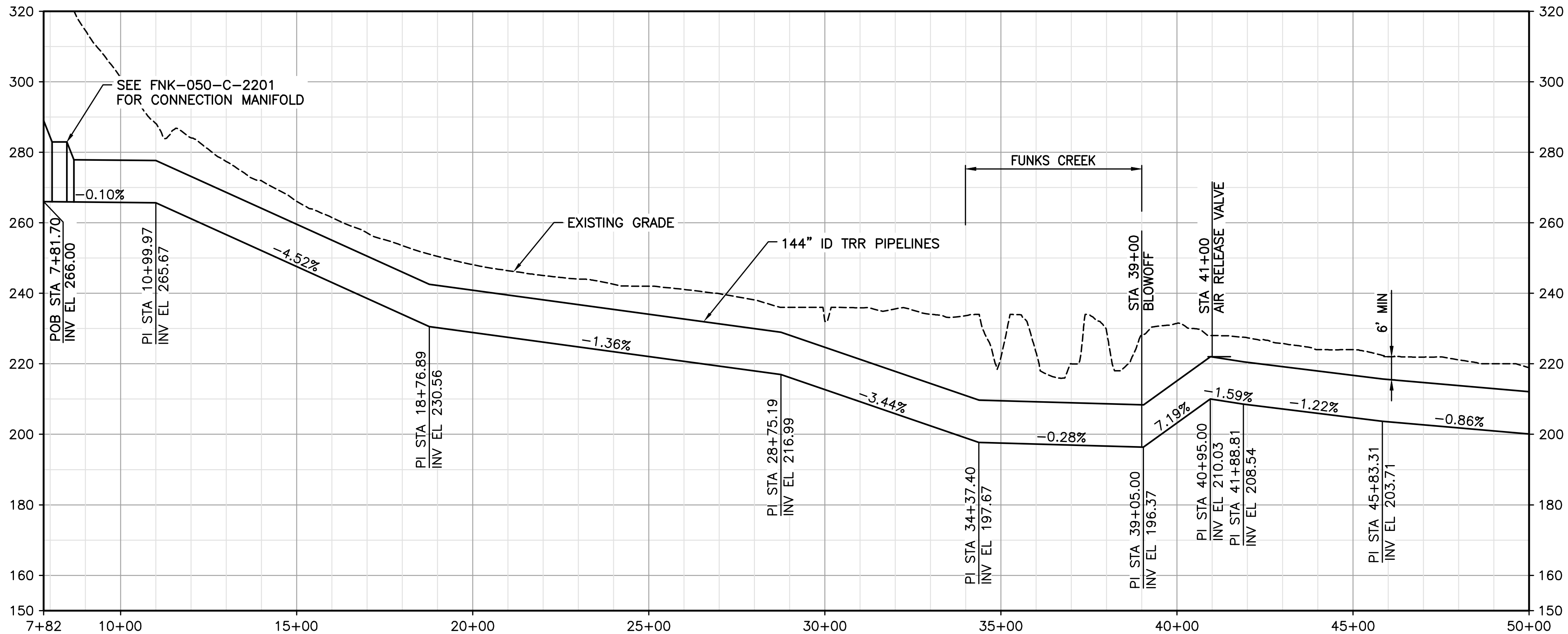
DRAWING NO.
TRR-050-C-2000



PLAN

SCALE: 1" = 200'

0 200' 400'
1" = 200'
NORTH



PROFILE

HORIZ SCALE: 1" = 200'
VERT SCALE: 1" = 20'

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:SMITH, JOEL/RDD –November 4, 2020–3:44:42 PM
DRAWING: TRR-050-C-2001_D3380600.dwg
JACOBS PROJECT # D3880600

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY:	N MASCHKE
DRAWN BY:	JP SMITH
CHECKED BY:	JF SMITH
IN CHARGE:	P RUDE
DATE:	11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

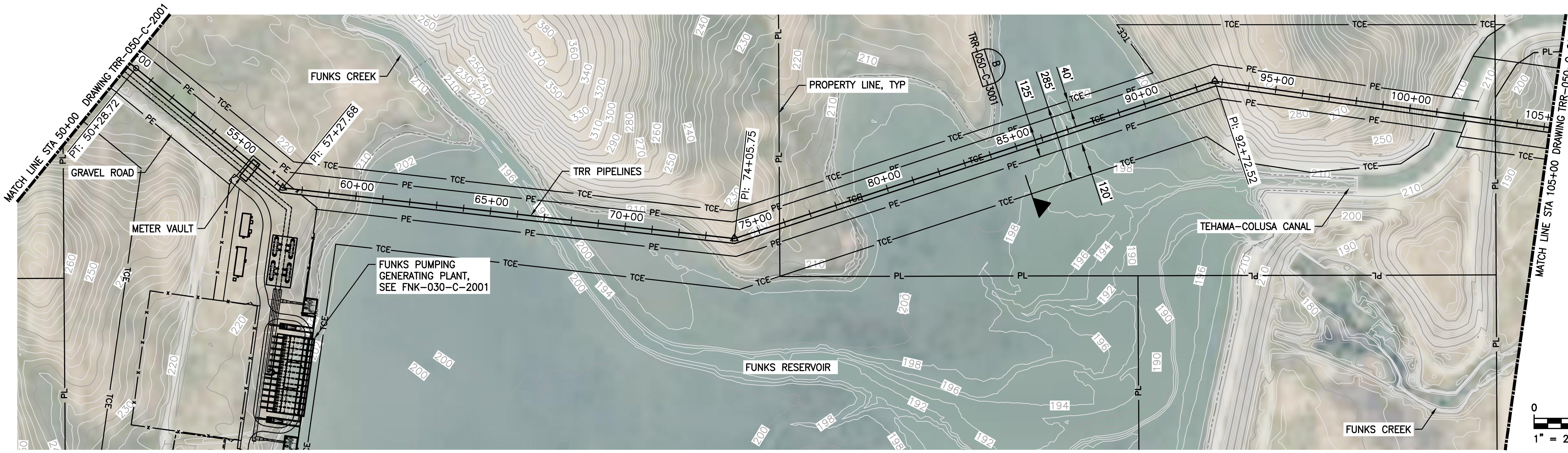
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

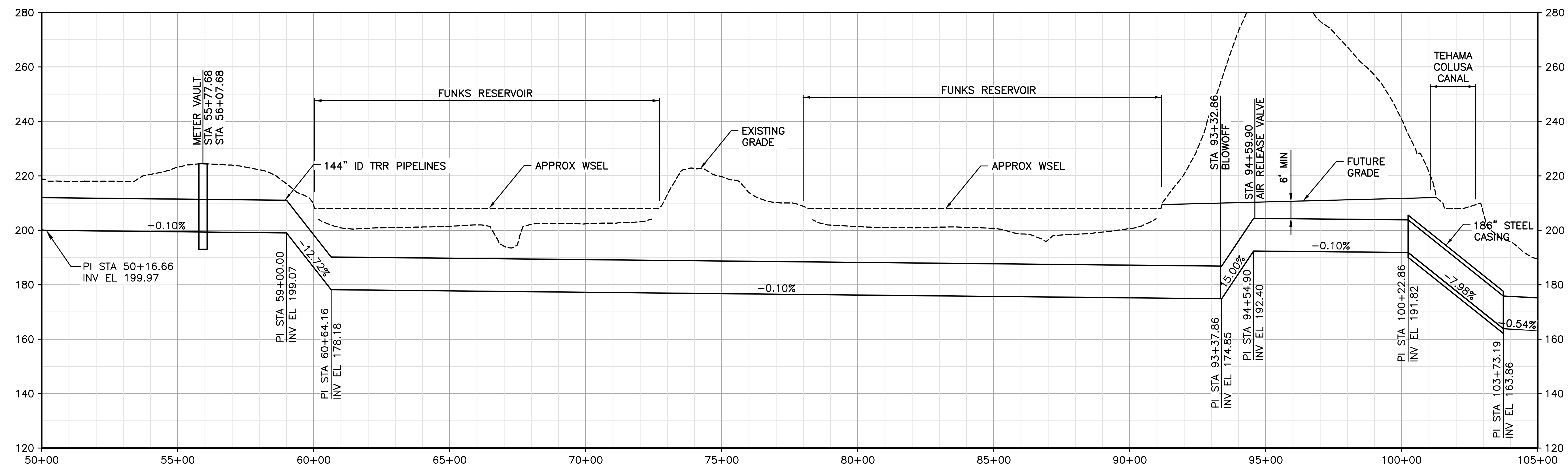
SITES RESERVOIR TO 2
TERMINAL REGULATING RESERVOIR EAST
PIPELINE PLAN AND PROFILE
STA 7+81.70 TO 50+00

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
TRR-050-C-2001



PLAN
SCALE: 1" = 200'



PROFILE
HORIZ SCALE: 1" = 200'
VERT SCALE: 1" = 20'

PROJECT FEASIBILITY STUDY — NOT FOR CONSTRUCTION

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: N MASCHKE
DRAWN BY: JP SMITH
CHECKED BY: JF SMITH
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

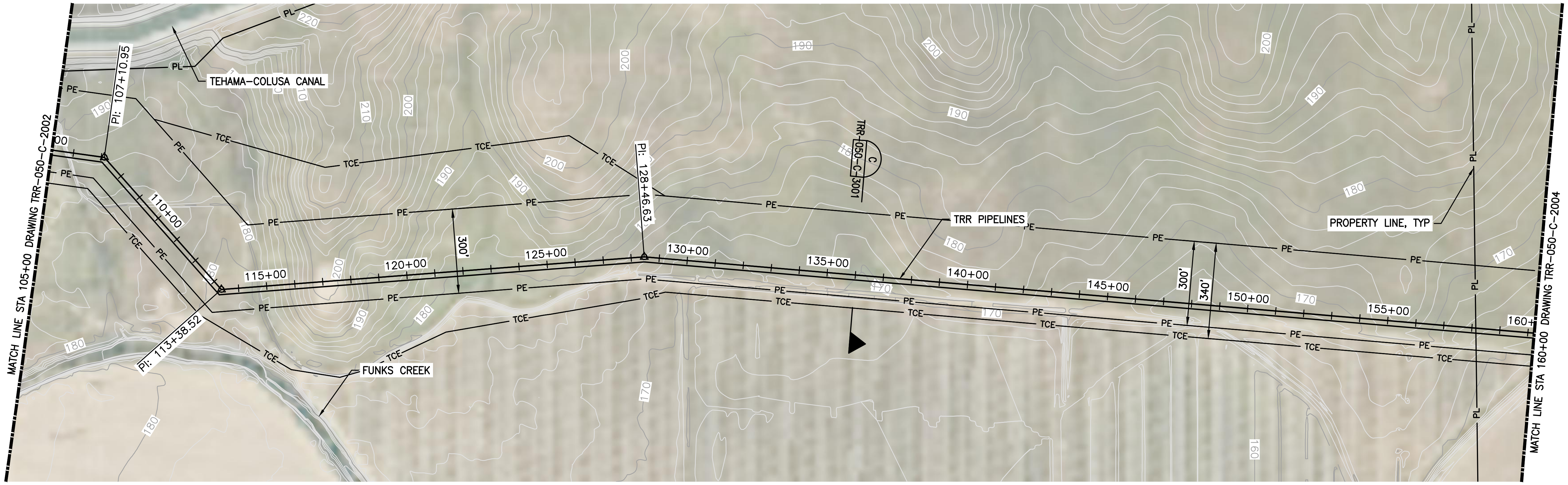
Sites

SITES RESERVOIR TO 2
TERMINAL REGULATING RESERVOIR EAST
PIPELINE PLAN AND PROFILE
STA 50+00 TO 105+00

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
TRR-050-C-2002

PLOTTED BY:SMITH, JOEL/RDD -November 4, 2020-3:44:42 PM
DRAWING: TRR-050-C-2002_D3380600.dwg
JACOBS PROJECT # D3880600



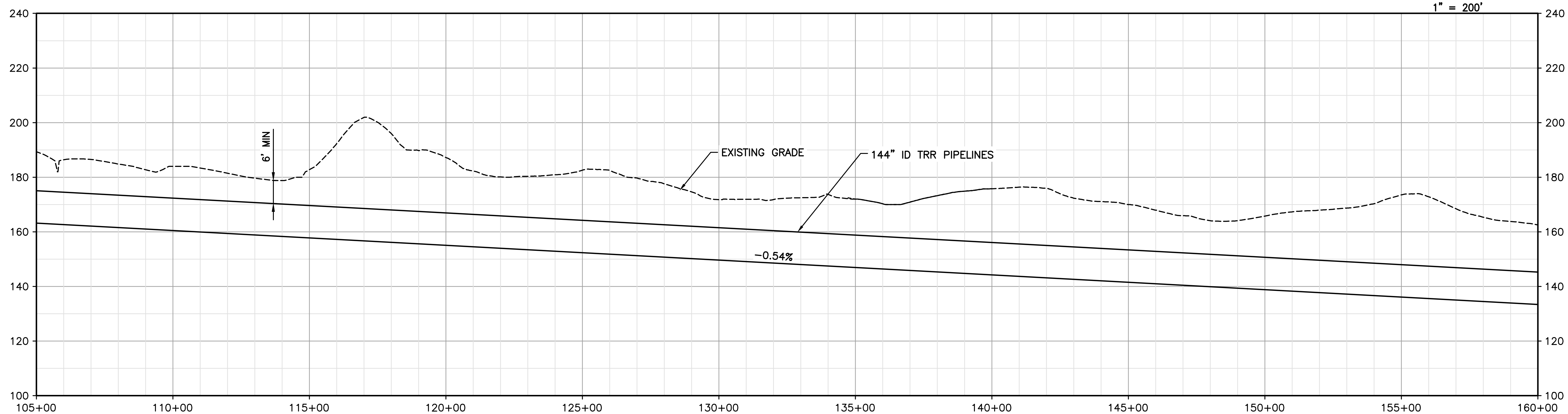
NOTE:

1. FOR ACCESS ROAD, SEE TRR ACCESS ROAD P&P DWGS.

PLAN
SCALE: 1" = 200'

0 200' 400'
1" = 200'

NORTH



PROFILE
HORIZ SCALE: 1" = 200'
VERT SCALE: 1" = 20'

PROJECT FEASIBILITY STUDY — NOT FOR CONSTRUCTION

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: N MASCHKE
DRAWN BY: JP SMITH
CHECKED BY: JF SMITH
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

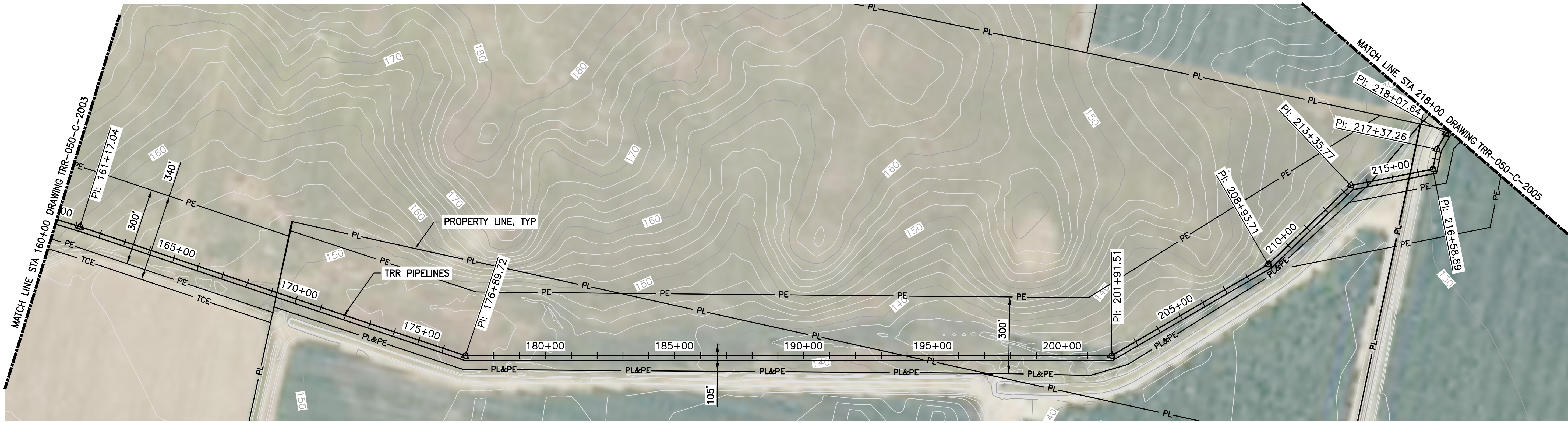
Sites

SITES RESERVOIR TO 2
TERMINAL REGULATING RESERVOIR EAST
PIPELINE PLAN AND PROFILE
STA 105+00 TO 160+00

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
TRR-050-C-2003

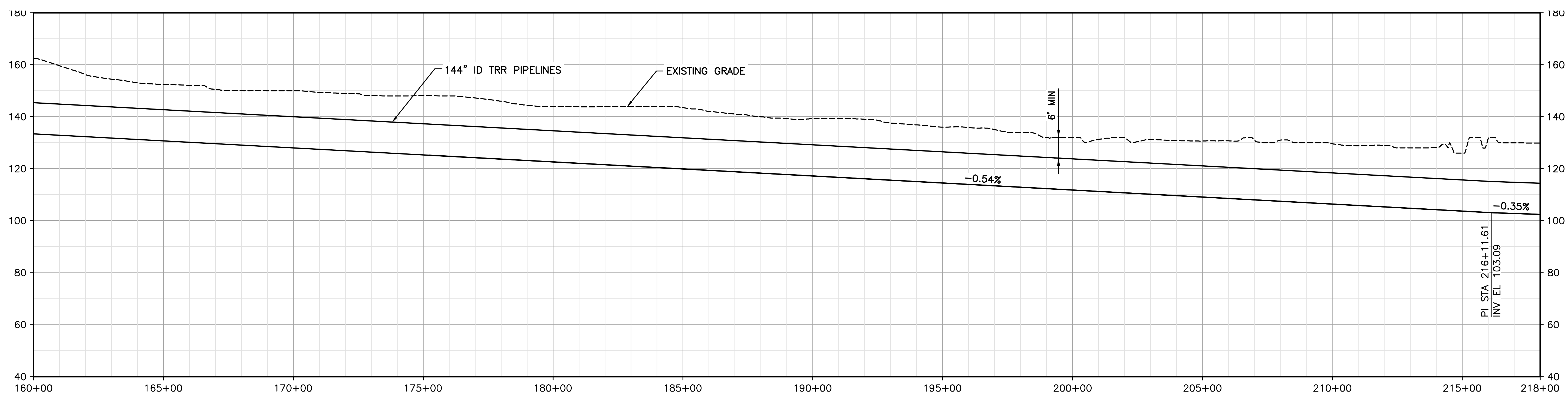
PLOTTED BY:CAVE, DAVID/RDD -November 9, 2020-3:44:42 PM
DRAWING: TRR-050-C-2003_D3380600.dwg
JACOBS PROJECT # D3880600



PLAN
SCALE: 1" = 200'

NOTE:

1. FOR ACCESS ROAD, SEE TRR ACCESS ROAD P&P DWGS.



PROFILE
HORIZ SCALE: 1" = 200'
VERT SCALE: 1" = 20'

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: N MASCHKE
DRAWN BY: JP SMITH
CHECKED BY: JF SMITH
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

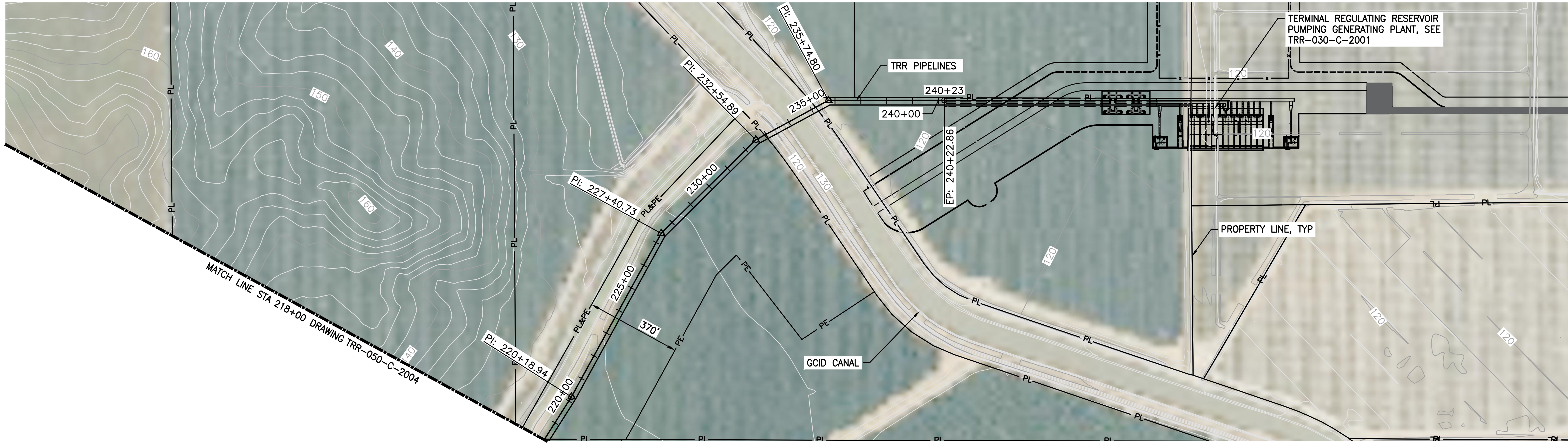
SITES RESERVOIR TO 2
TERMINAL REGULATING RESERVOIR EAST
PIPELINE PLAN AND PROFILE
STA 160+00 TO 218+00

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
TRR-050-C-2004

PROJECT FEASIBILITY STUDY — NOT FOR CONSTRUCTION

PLOTTED BY:SMITH, JOEL/RDD -November 3, 2020-3:44:42 PM
DRAWING: TRR-050-C-2004_D3380600.dwg
JACOBS PROJECT # D3380600



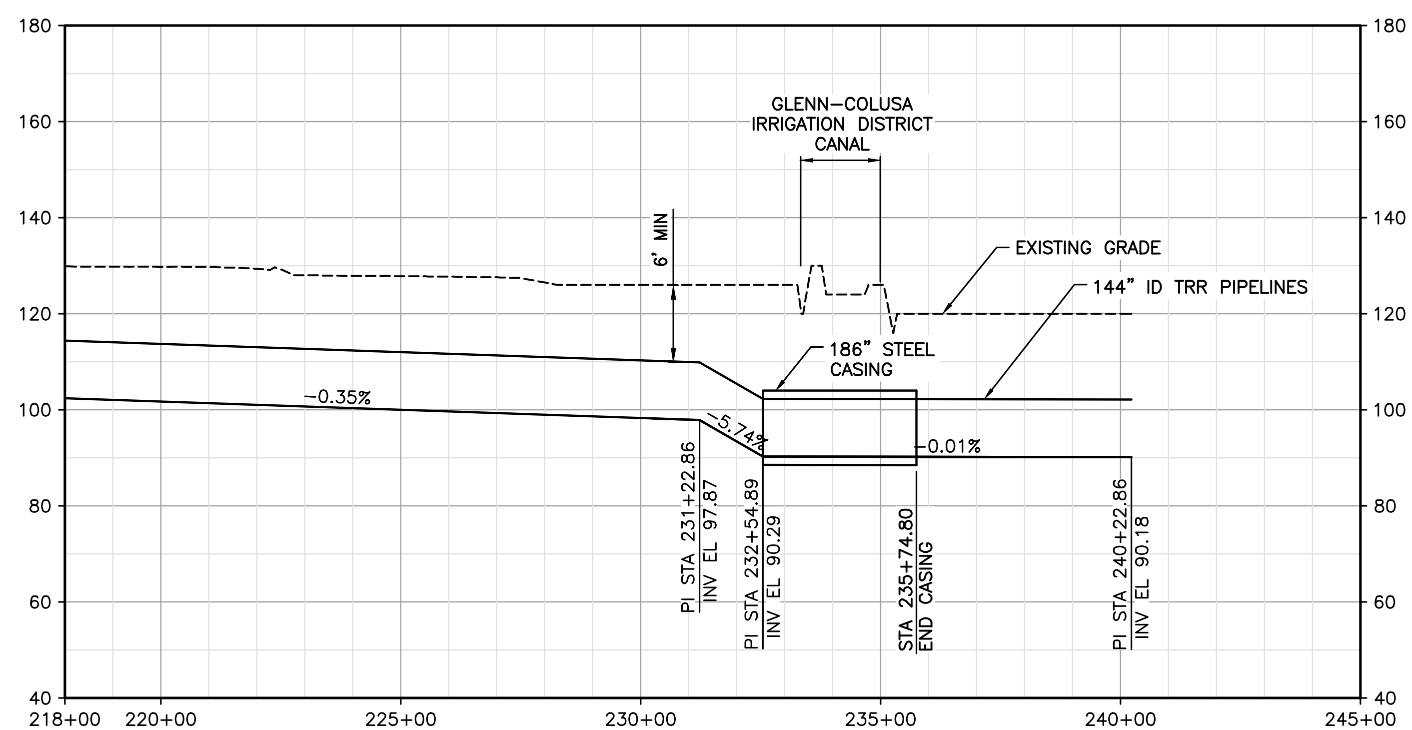
NOTE:

1. FOR ACCESS ROADS, SEE TRR ACCESS ROADS P&P DWGS.

PLAN
SCALE: 1" = 200'

0 200' 400'
1" = 200'

NORTH



PROFILE
HORIZ SCALE: 1" = 200'
VERT SCALE: 1" = 20'

PLOTTED BY:SMITH, JOEL/RDD -November 3, 2020-3:44:42 PM
DRAWING: TRR-050-C-2005_D3380600.dwg
JACOBS PROJECT # D3880600

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: N MASCHKE
DRAWN BY: JP SMITH
CHECKED BY: JF SMITH
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

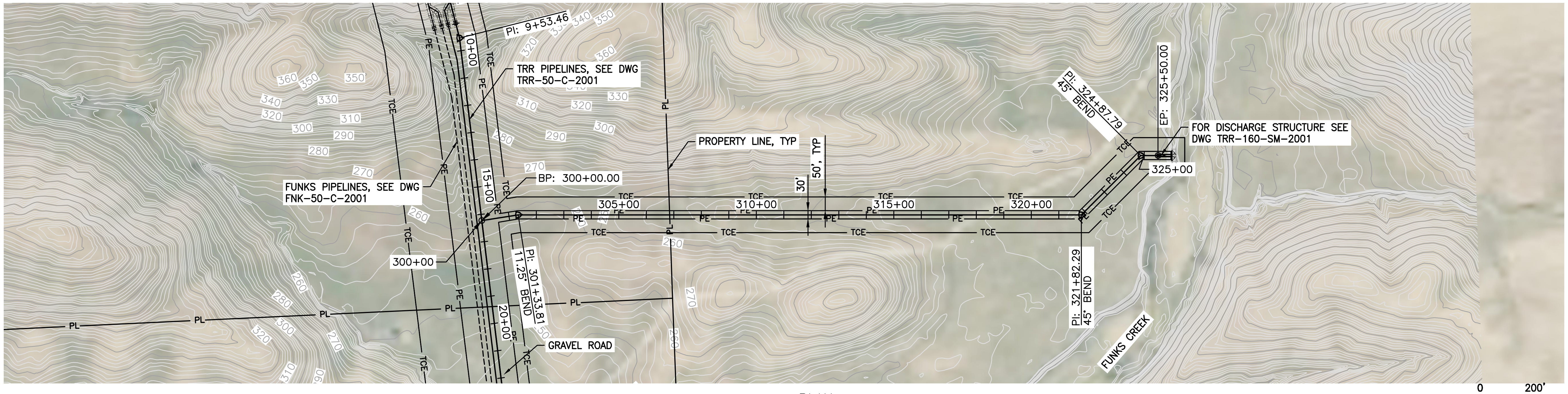
Sites

SITES RESERVOIR TO 2
TERMINAL REGULATING RESERVOIR EAST
PIPELINE PLAN AND PROFILE
STA 218+00 TO 240+22.86

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

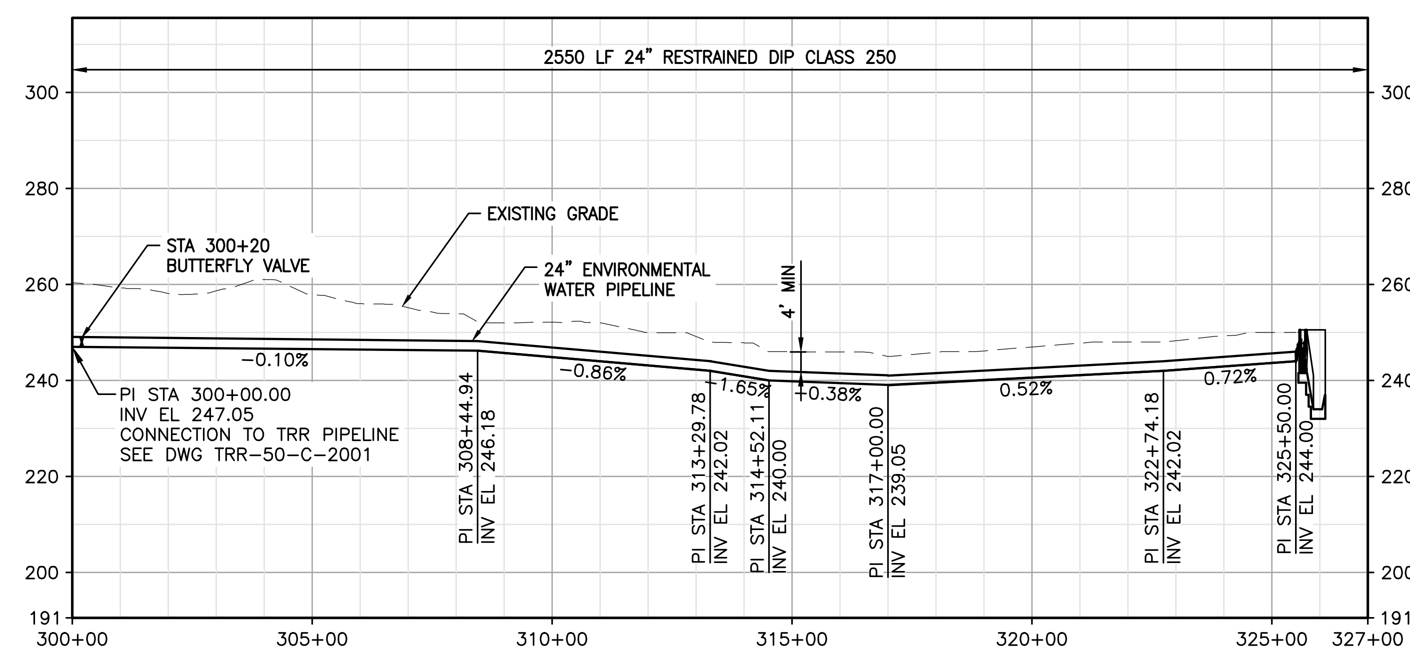
DRAWING NO.
TRR-050-C-2005

PROJECT FEASIBILITY STUDY — NOT FOR CONSTRUCTION



PLAN
SCALE: 1" = 200'

0 200' 400'
1" = 200'
NORTH



PROFILE
HORIZ SCALE: 1" = 200'
VERT SCALE: 1" = 20'

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: N MASCHKE
DRAWN BY: JP SMITH
CHECKED BY: JF SMITH
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

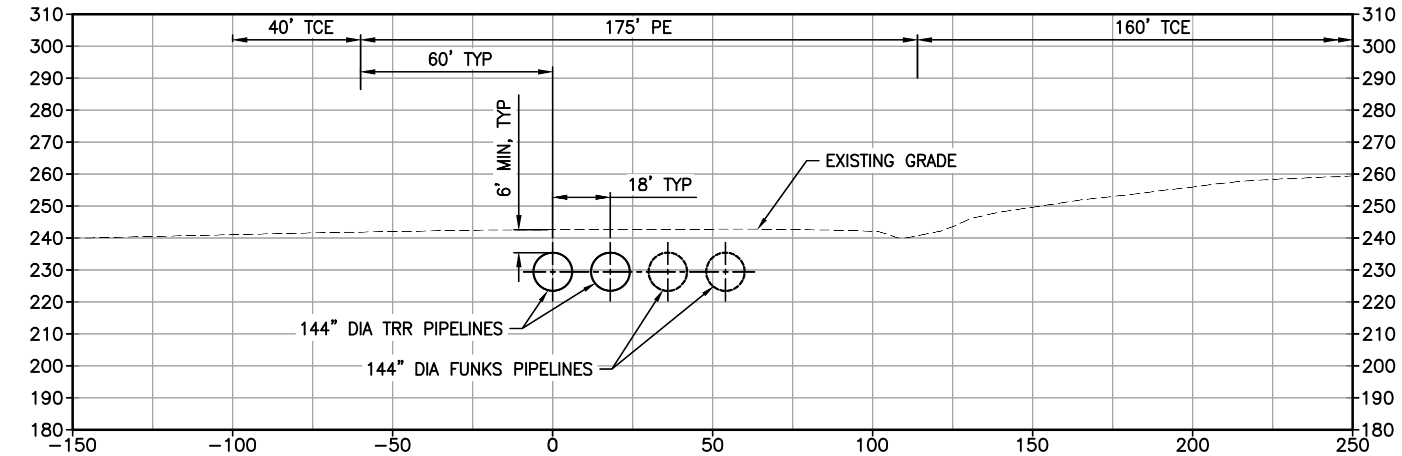
SITES RESERVOIR TO 2 ENVIRONMENTAL WATER PIPELINE PLAN AND PROFILE STA 300+00 TO 325+50

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

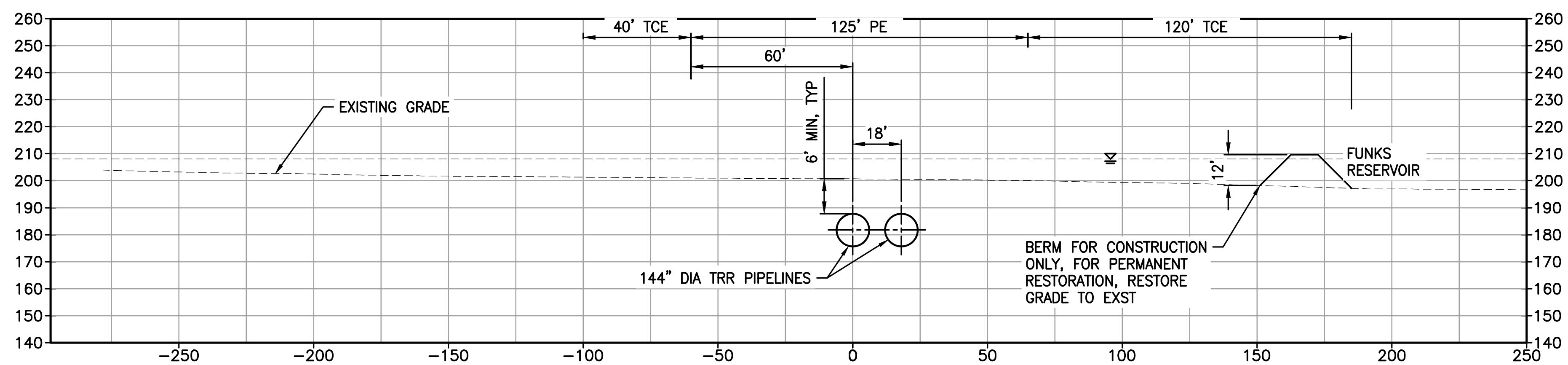
DRAWING NO.
TRR-050-C-2101

PROJECT FEASIBILITY STUDY — NOT FOR CONSTRUCTION

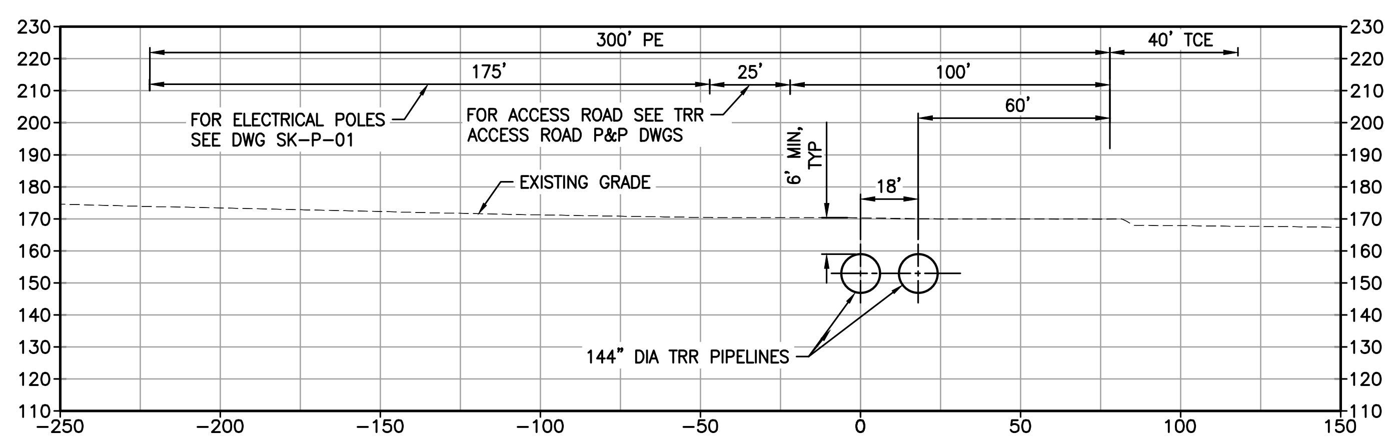
PLOTTED BY:SMITH, JOEL/RDD -November 4, 2020-3:44:42 PM
DRAWING: TRR-050-C-2101_D3380600.dwg
JACOBS PROJECT # D3880600



A | CROSS SECTION
TRR-050-C-2001 | SCALE: 1" = 30'



B | CROSS SECTION
TRR-050-C-2002 | SCALE: 1" = 30'



C | CROSS SECTION
TRR-050-C-2003 | SCALE: 1" = 30'

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: N MASCHKE
DRAWN BY: JP SMITH
CHECKED BY: JF SMITH
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

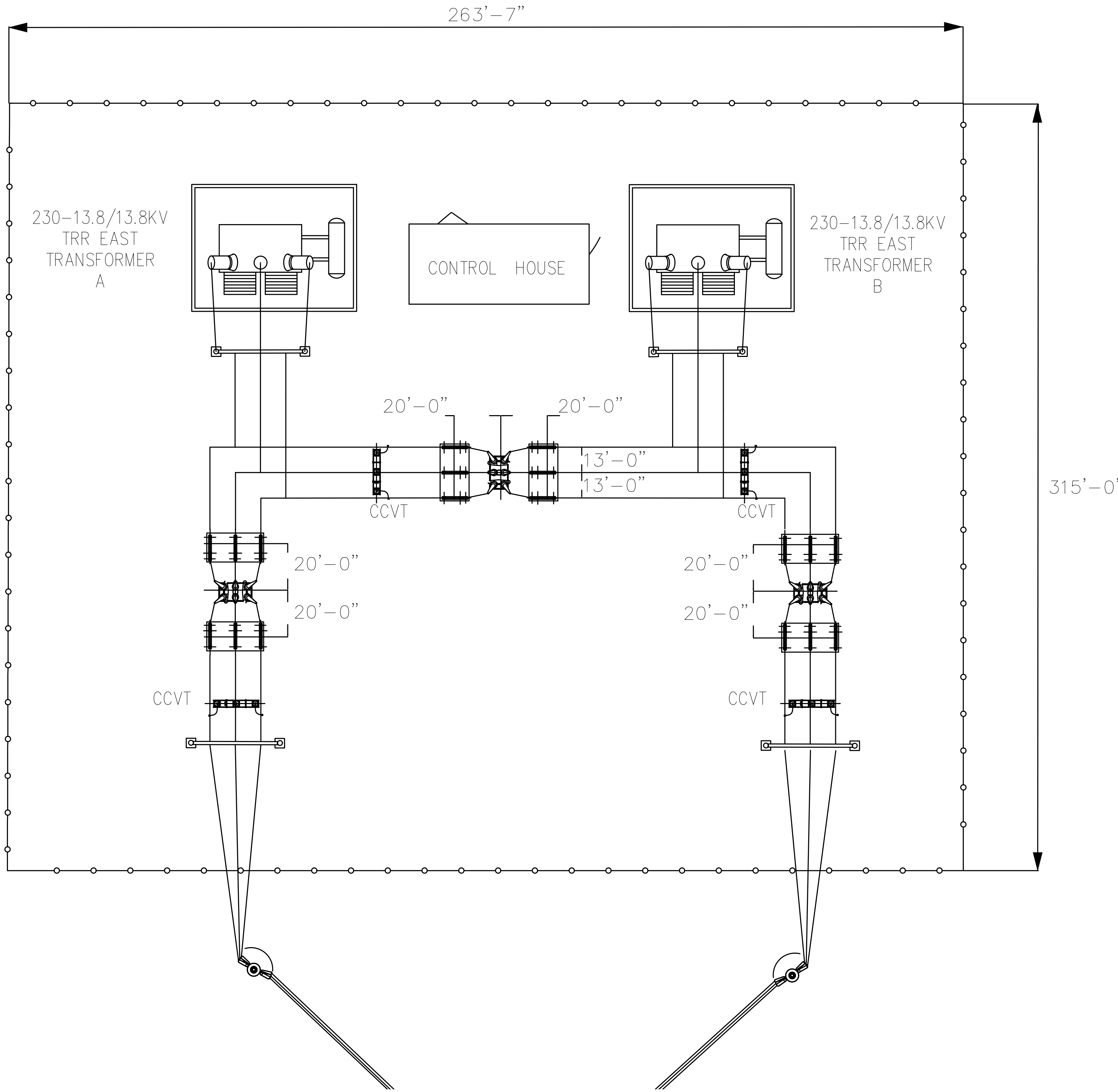
SITES RESERVOIR TO 2
TERMINAL REGULATING RESERVOIR EAST
PIPELINE
CROSS SECTIONS

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

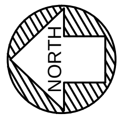
DRAWING NO.
TRR-050-C-3001

PLOTTED BY:SMITH, JOEL/RDD –November 4, 2020–3:44:42 PM
DRAWING: TRR-050-C-3001_D3380600.dwg
JACOBS PROJECT # D3380600

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION



PLAN
SCALE: 1" = 20'–0"



PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: S WEGIEL
DRAWN BY: A RASHEED
CHECKED BY: S WEGIEL
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

VANDERWEIL POWER GROUP

Sites

SITES RESERVOIR TO 2
TERMINAL REGULATING RESERVOIR EAST
WAPA
SUBSTATION PLAN

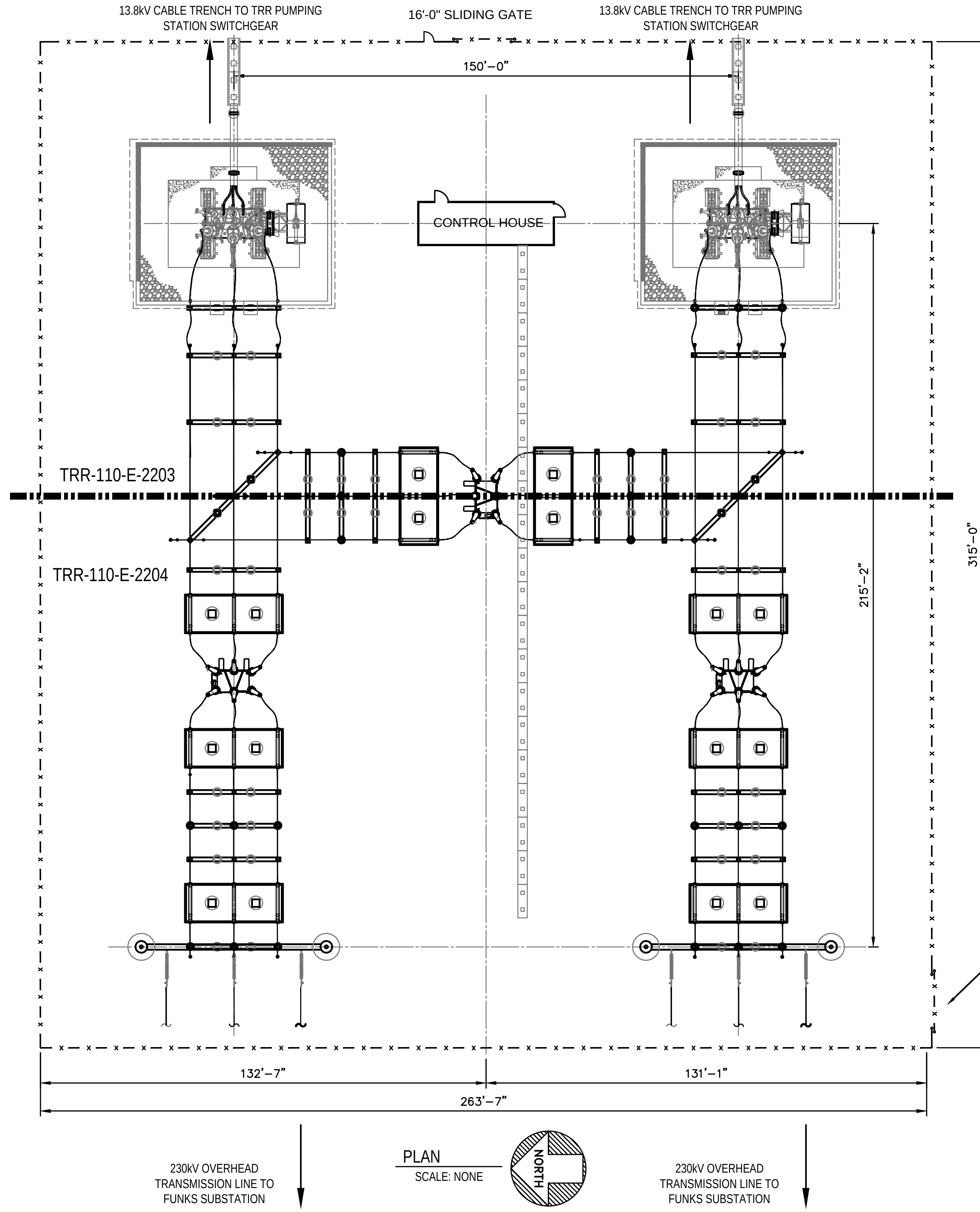
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
TRR-110-E-2201

PLOTTED BY:RASHEED, ASIF –November 5, 2020–3:44:42 PM
DRAWING: TRR-110-E-2201_D3380600.dwg
JACOBS PROJECT # D3880600

NOTES:

1. CABLE TRENCH DESIGN TO BE DETERMINED AT THE DETAILED DESIGN STAGE OF THE PROJECT



PLAN

SCALE: NONE

PROJECT FEASIBILITY STUDY - NOT FOR CONSTRUCTION

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: J RUSSO
DRAWN BY: J RUSSO
CHECKED BY: S WEGIEL
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

VANDERWEIL POWER GROUP

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2
TERMINAL REGULATING RESERVOIR EAST
230KV SUBSTATION
TRR SUBSTATION EQUIPMENT PLAN OVERALL SITE

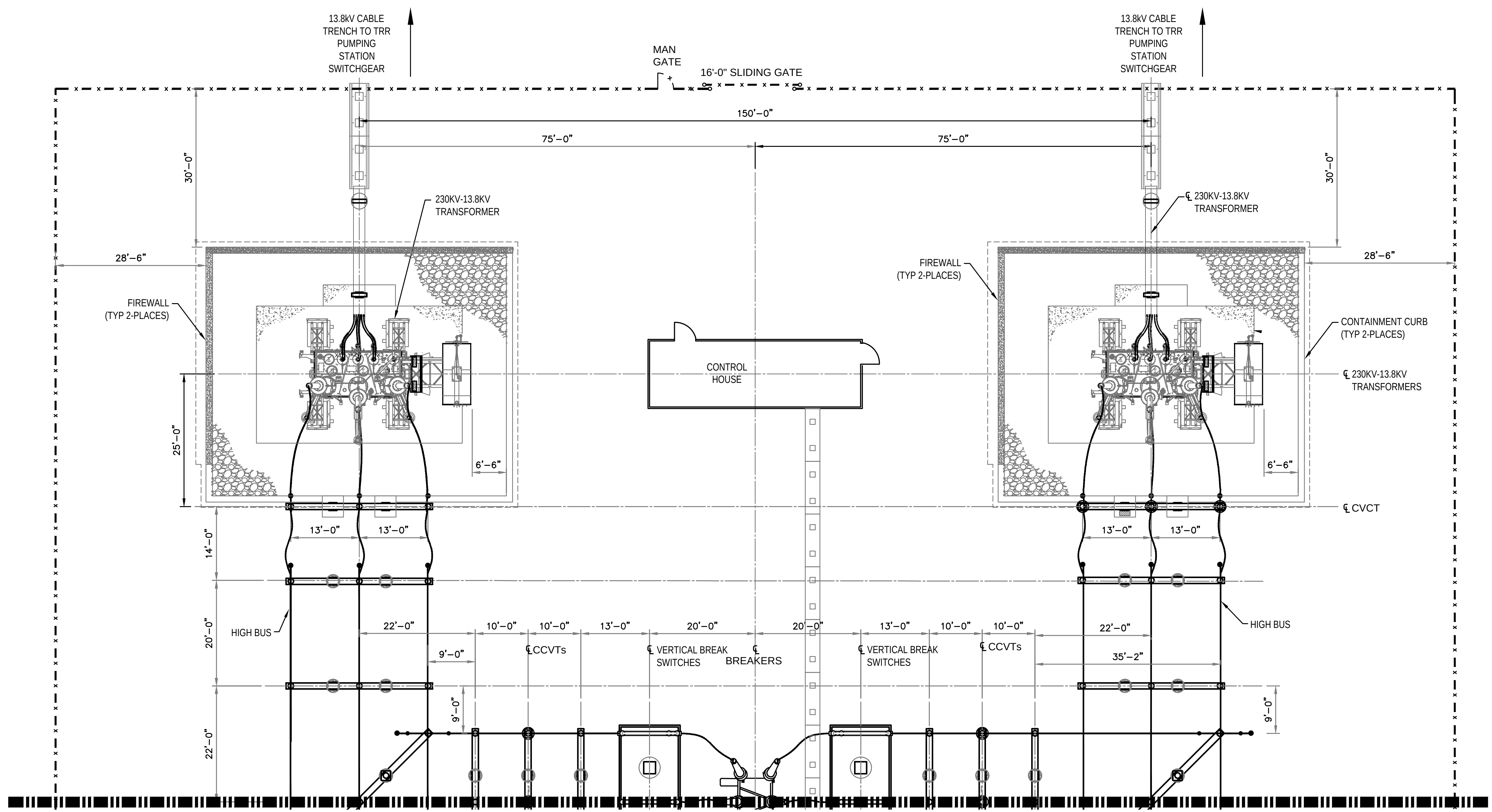
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
TRR-110-E-2202

PLOTTED BY:HATCH, CHRISTIAN -November 6, 2020-3:44:42 PM
DRAWING: TRR-110-E-2202_D3380600.dwg
JACOBS PROJECT # D3380600

NOTES:

1. FOR NOTES SEE TRR-110-E-2202



PLAN
SCALE: 3/32" = 1'-0"

NORTH

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: J RUSSO
DRAWN BY: J RUSSO
CHECKED BY: S WEGIEL
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
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STATE OF CALIFORNIA

Sites

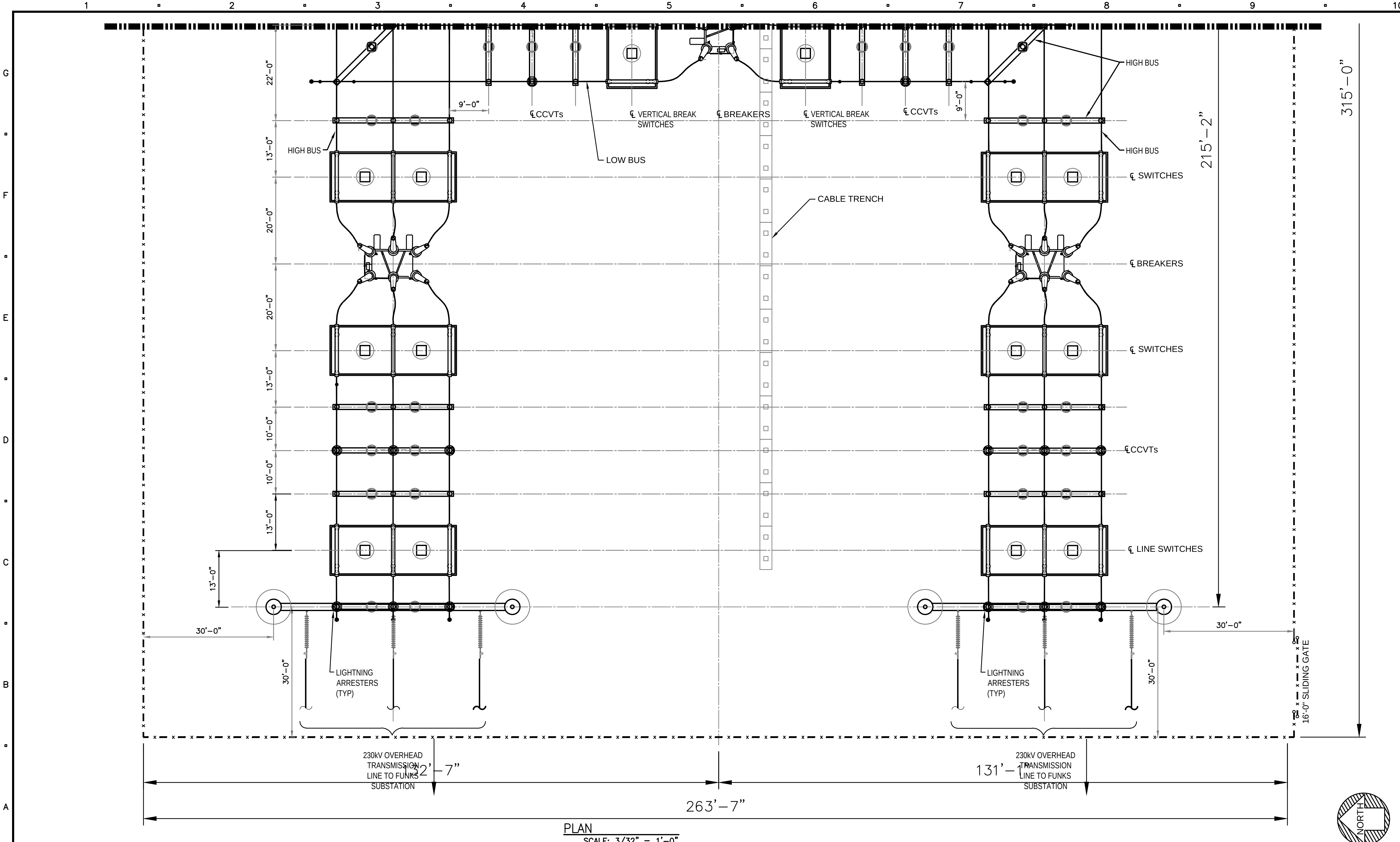
SITES RESERVOIR TO 2
TERMINAL REGULATING RESERVOIR EAST
230KV SUBSTATION
TRR SUBSTATION EQUIPMENT PLAN SECTOR 1

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
TRR-110-E-2203

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:HATCH, CHRISTIAN –November 6, 2020–3:44:42 PM
DRAWING: TRR-110-E-2203_D3380600.dwg
JACOBS PROJECT # D3880600



PLAN
SCALE: 3/32" = 1'–0"

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: J RUSSO
DRAWN BY: J RUSSO
CHECKED BY: S WEGIEL
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
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PHONE: (530) 243-5831

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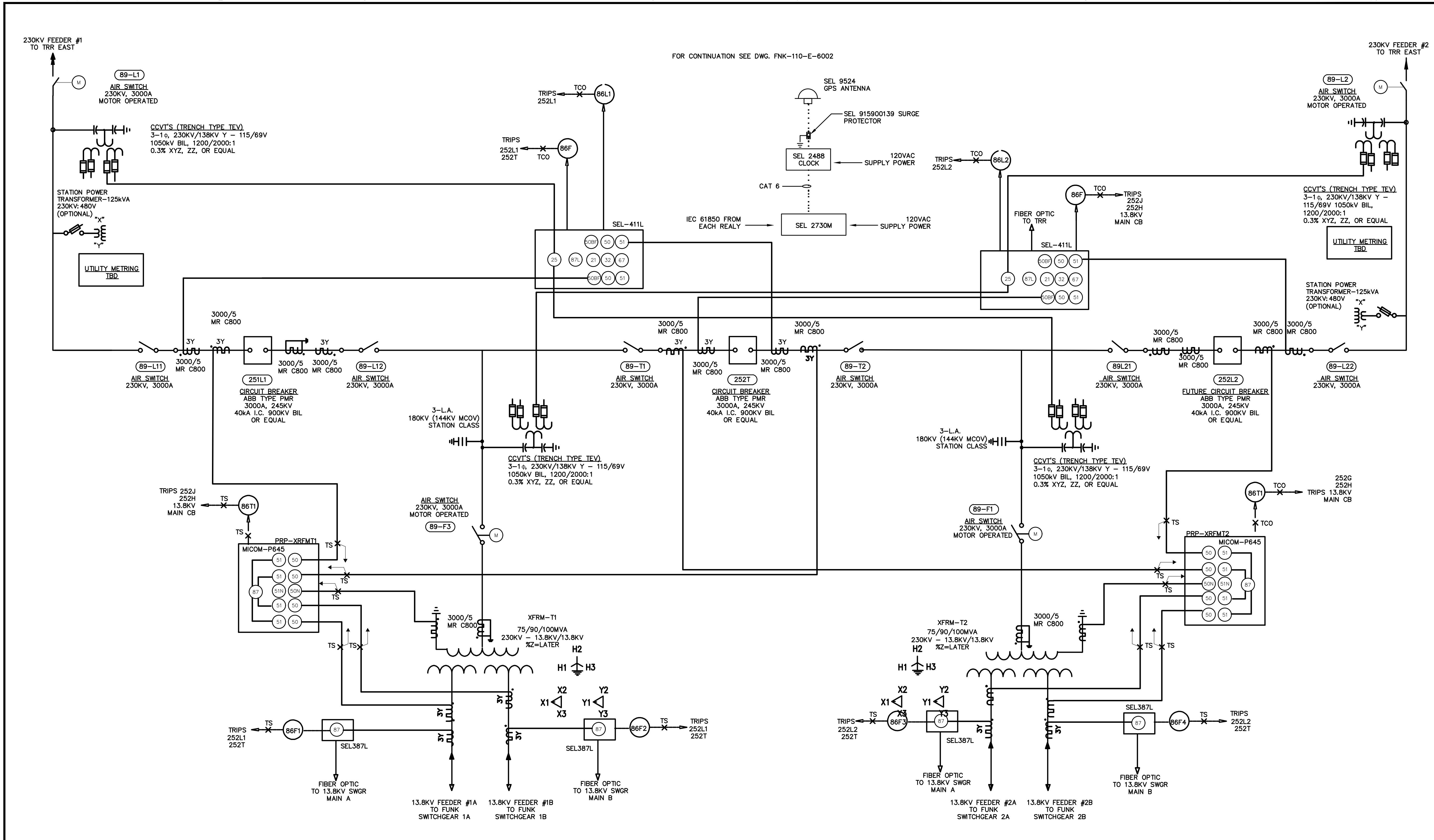
Sites

SITES RESERVOIR TO 2
TERMINAL REGULATING RESERVOIR EAST
230KV SUBSTATION
TRR SUBSTATION EQUIPMENT PLAN SECTOR 2

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
TRR-110-E-2204

PLOTTED BY:HATCH, CHRISTIAN –November 6, 2020–3:44:42 PM
DRAWING: TRR-110-E-2204_D3380600.dwg
JACOBS PROJECT # D3380600



PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:RASHEED, ASIF –November 5, 2020–3:44:42 PM
DRAWING: TRR-110-E-6001_D3380600.dwg
JACOBS PROJECT # D3380600

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: S WEGIEL
DRAWN BY: A RASHEED
CHECKED BY: S WEGIEL
IN CHARGE: P RUDE
DATE: 11-09-2020

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REDDING CA, 96001
PHONE: (530) 243-5831

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STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2
TERMINAL REGULATING RESERVOIR EAST
230KV SUBSTATION
RELAYING AND PROTECTION ONE LINE DIAGRAM

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
TRR-110-E-6001

GENERAL SHEET NOTES

1. TOPOGRAPHY BASED ON DWR 2001 MAPPING STUDY OF THE PROJECT AREA.
2. FOR RESERVOIR FEATURES AND LAYOUT, SEE DRAWING NO. TRR-120-C-2401.
3. HAUL ROAD CORRIDORS TO BE USED DURING CONSTRUCTION AND REMOVED OR REPLACED BY ACCESS ROADS. SEE DRAWINGS NO. TRR-020-C-2006 AND TRR-020-C-2008 FOR CONSTRUCTION EASEMENTS AND PERMANENT ACCESS ROADS TO BE LEFT IN PLACE.

PLAN
SCALE: 1" = 400'

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: D MORLEY
DRAWN BY: S KHALAMEYZER
CHECKED BY: B MARTINEZ
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
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STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2
TERMINAL REGULATING RESERVOIR – EAST STOCKPILE AND HAUL ROUTE PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

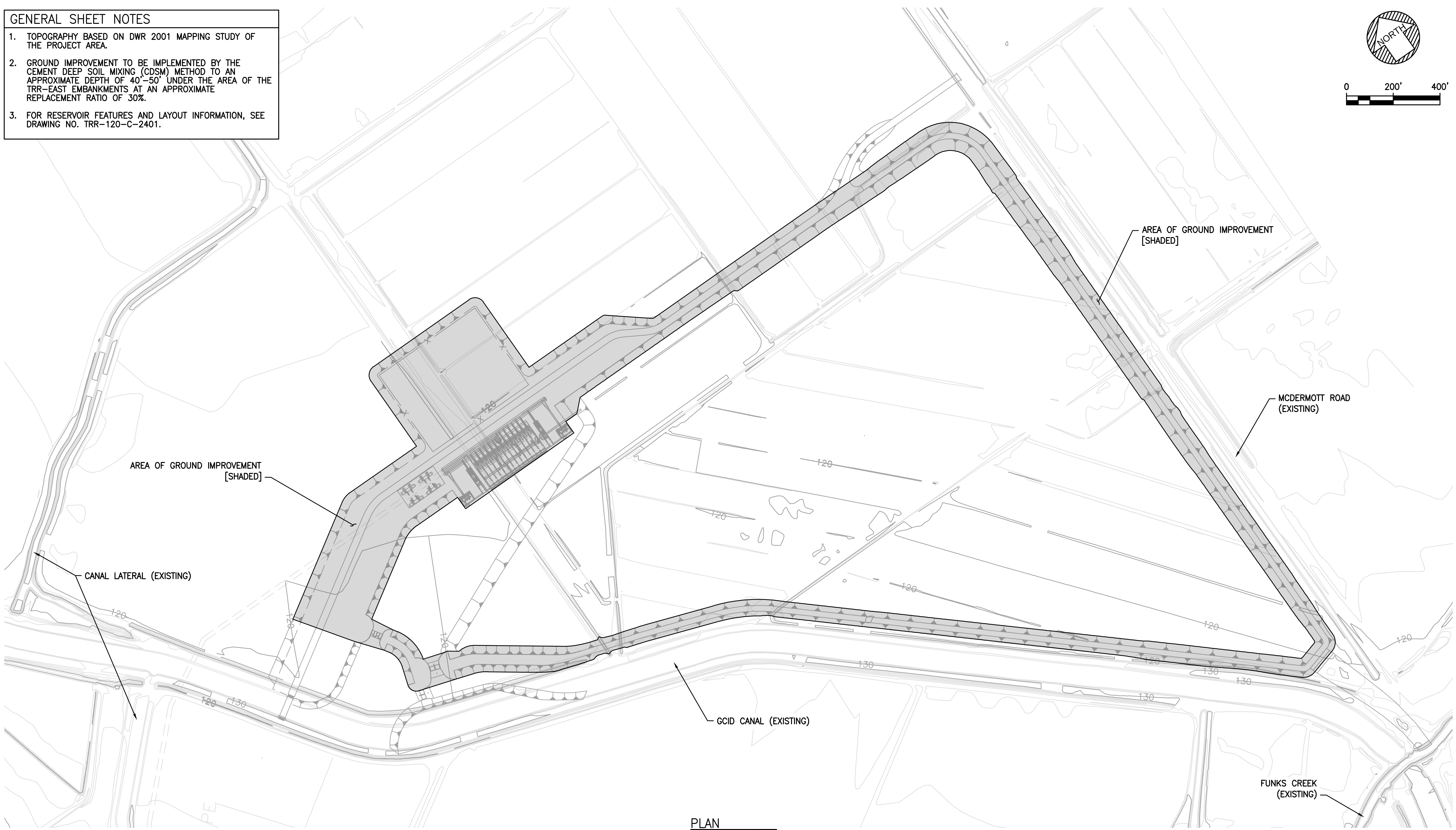
DRAWING NO.
TRR-120-C-2101

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:SASHA KHALAMEYZER –November 5, 2020–3:44:42 PM
DRAWING: TRR-120-C-2101_D3380600.dwg
JACOBS PROJECT # D3880600

GENERAL SHEET NOTES

1. TOPOGRAPHY BASED ON DWR 2001 MAPPING STUDY OF THE PROJECT AREA.
2. GROUND IMPROVEMENT TO BE IMPLEMENTED BY THE CEMENT DEEP SOIL MIXING (CDSM) METHOD TO AN APPROXIMATE DEPTH OF 40'–50' UNDER THE AREA OF THE TRR–EAST EMBANKMENTS AT AN APPROXIMATE REPLACEMENT RATIO OF 30%.
3. FOR RESERVOIR FEATURES AND LAYOUT INFORMATION, SEE DRAWING NO. TRR–120–C–2401.



PLAN
SCALE: 1" = 200'

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: D MORLEY
DRAWN BY: S KHALAMEYZER
CHECKED BY: B MARTINEZ
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
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Sites

SITES RESERVOIR TO 2
TERMINAL REGULATING RESERVOIR – EAST
GROUND IMPROVEMENT
PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

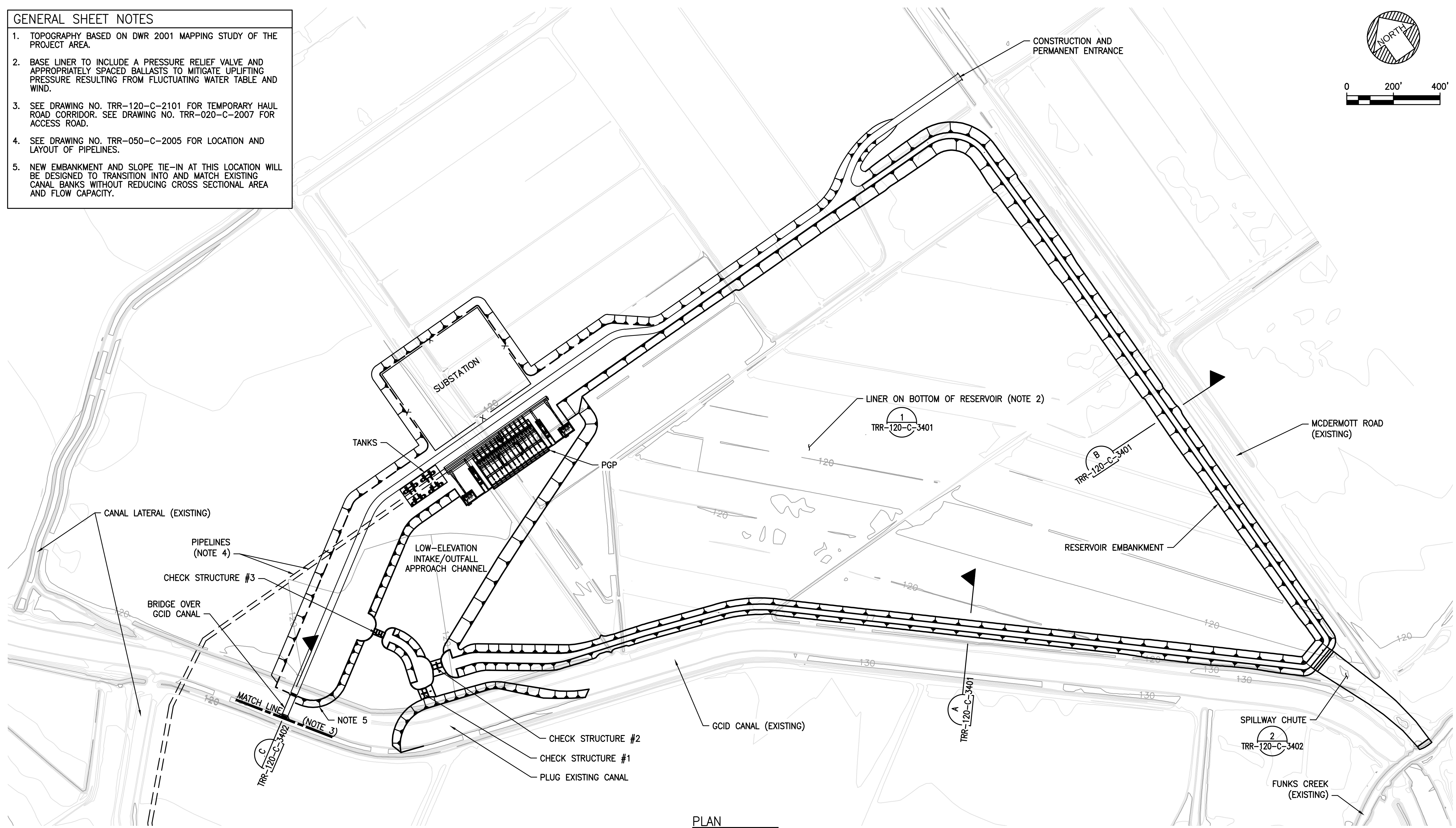
DRAWING NO.
TRR–120–C–2102

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:SASHA KHALAMEYZER –November 5, 2020–3:44:42 PM
DRAWING: TRR–120–C–2102_D3380600.dwg
JACOBS PROJECT # D3880600

GENERAL SHEET NOTES

1. TOPOGRAPHY BASED ON DWR 2001 MAPPING STUDY OF THE PROJECT AREA.
2. BASE LINER TO INCLUDE A PRESSURE RELIEF VALVE AND APPROPRIATELY SPACED BALLASTS TO MITIGATE UPLIFTING PRESSURE RESULTING FROM FLUCTUATING WATER TABLE AND WIND.
3. SEE DRAWING NO. TRR-120-C-2101 FOR TEMPORARY HAUL ROAD CORRIDOR. SEE DRAWING NO. TRR-020-C-2007 FOR ACCESS ROAD.
4. SEE DRAWING NO. TRR-050-C-2005 FOR LOCATION AND LAYOUT OF PIPELINES.
5. NEW EMBANKMENT AND SLOPE TIE-IN AT THIS LOCATION WILL BE DESIGNED TO TRANSITION INTO AND MATCH EXISTING CANAL BANKS WITHOUT REDUCING CROSS SECTIONAL AREA AND FLOW CAPACITY.



PLAN
SCALE: 1" = 200'

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: D MORLEY
DRAWN BY: S KHALAMEYZER
CHECKED BY: B MARTINEZ
IN CHARGE: P RUDE
DATE: 11-09-2020

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STATE OF CALIFORNIA

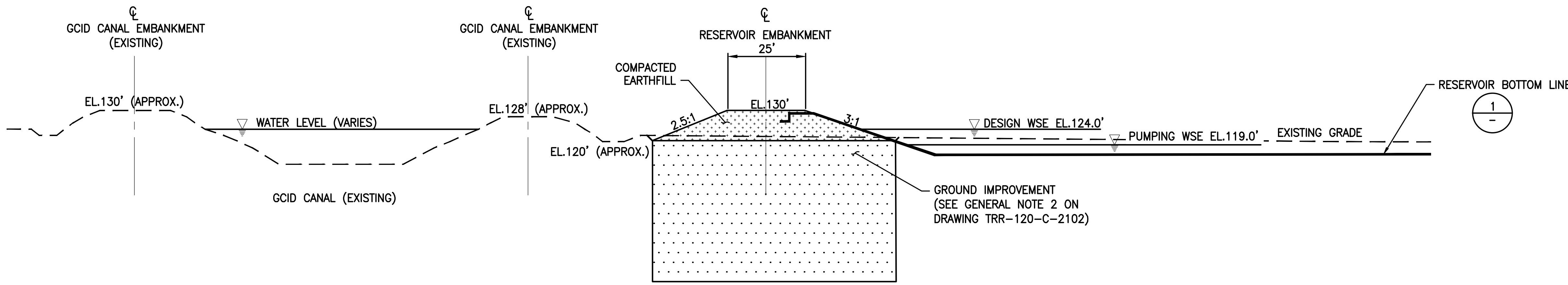
Sites

SITES RESERVOIR TO 2
TERMINAL REGULATING RESERVOIR – EAST RESERVOIR PLAN

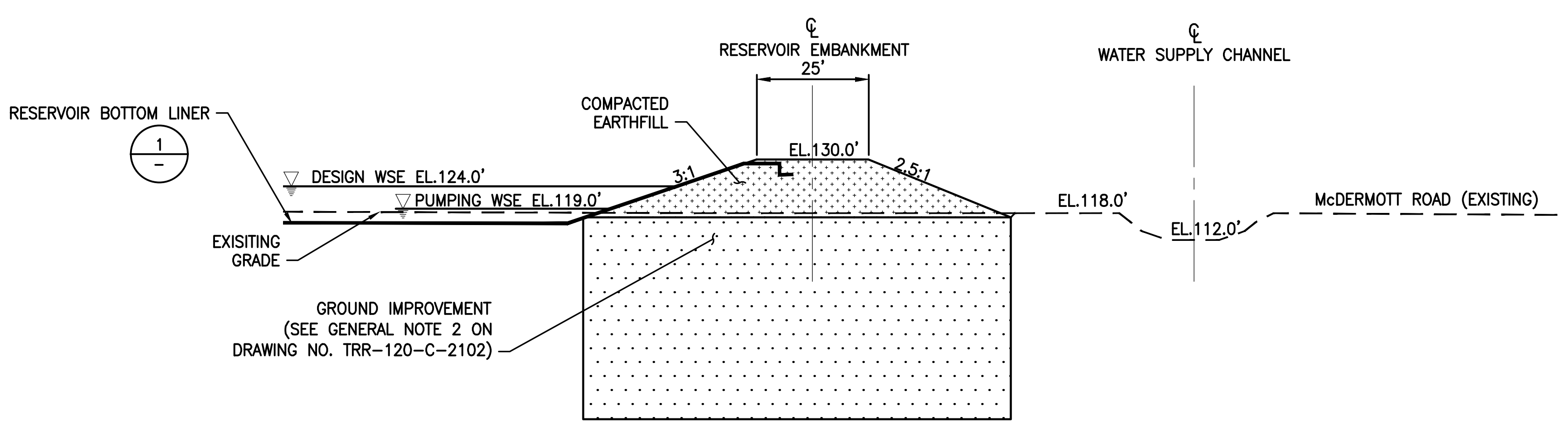
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
TRR-120-C-2401

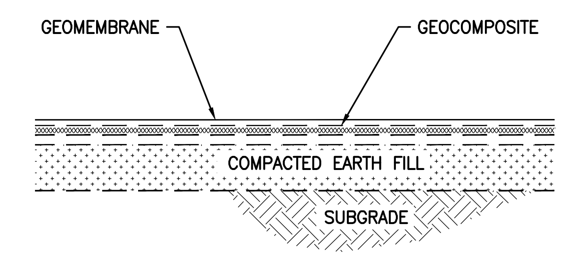
PLOTTED BY:SASHA KHALAMEYZER –November 5, 2020–3:44:42 PM
DRAWING: TRR-120-C-2401_D3380600.dwg
JACOBS PROJECT # D3880600



A | SECTION, WEST EMBANKMENT
TRR-120-C-2401 | SCALE: 1" = 20'



B | SECTION, EAST EMBANKMENT
TRR-120-C-2401 | SCALE: 1" = 20'



1 | DETAIL, RESERVOIR BOTTOM LINER
TRR-120-C-2401 | SCALE: NTS

PLOTTED BY:SASHA KHALAMEYZER –November 5, 2020–3:44:42 PM
DRAWING: TRR-120-C-3401_D3380600.dwg
JACOBS PROJECT # D3880600

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: D MORLEY
DRAWN BY: S KHALAMEYZER
CHECKED BY: B MARTINEZ
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
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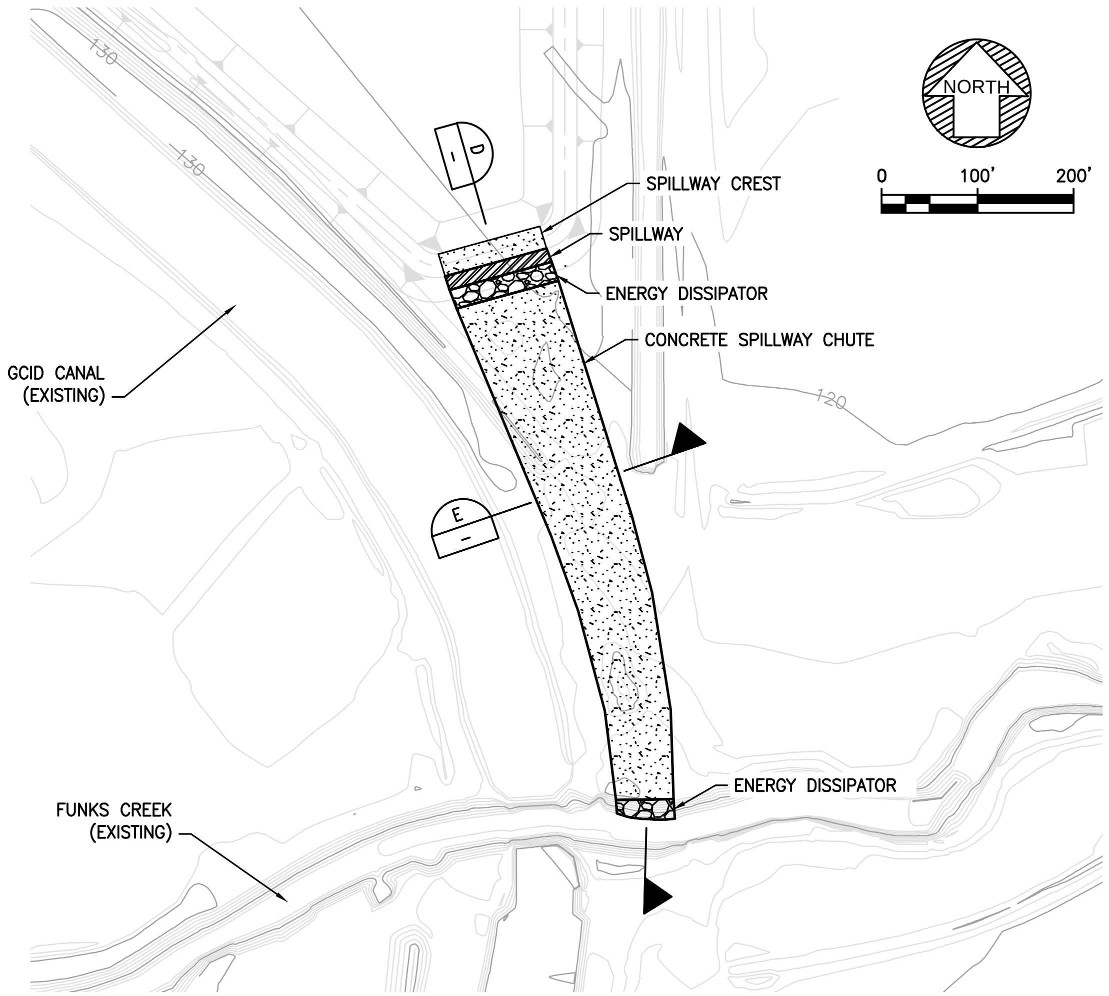
SITES RESERVOIR TO 2
TERMINAL REGULATING RESERVOIR – EAST RESERVOIR
SECTIONS AND DETAILS

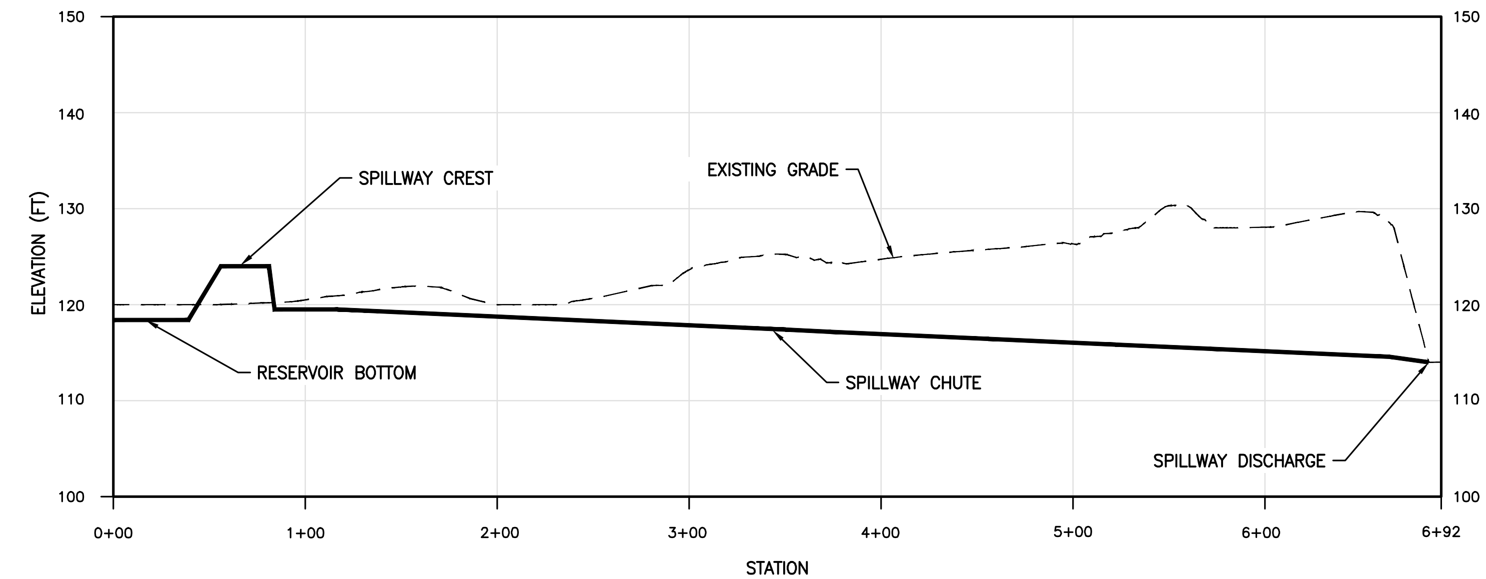
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
TRR-120-C-3401

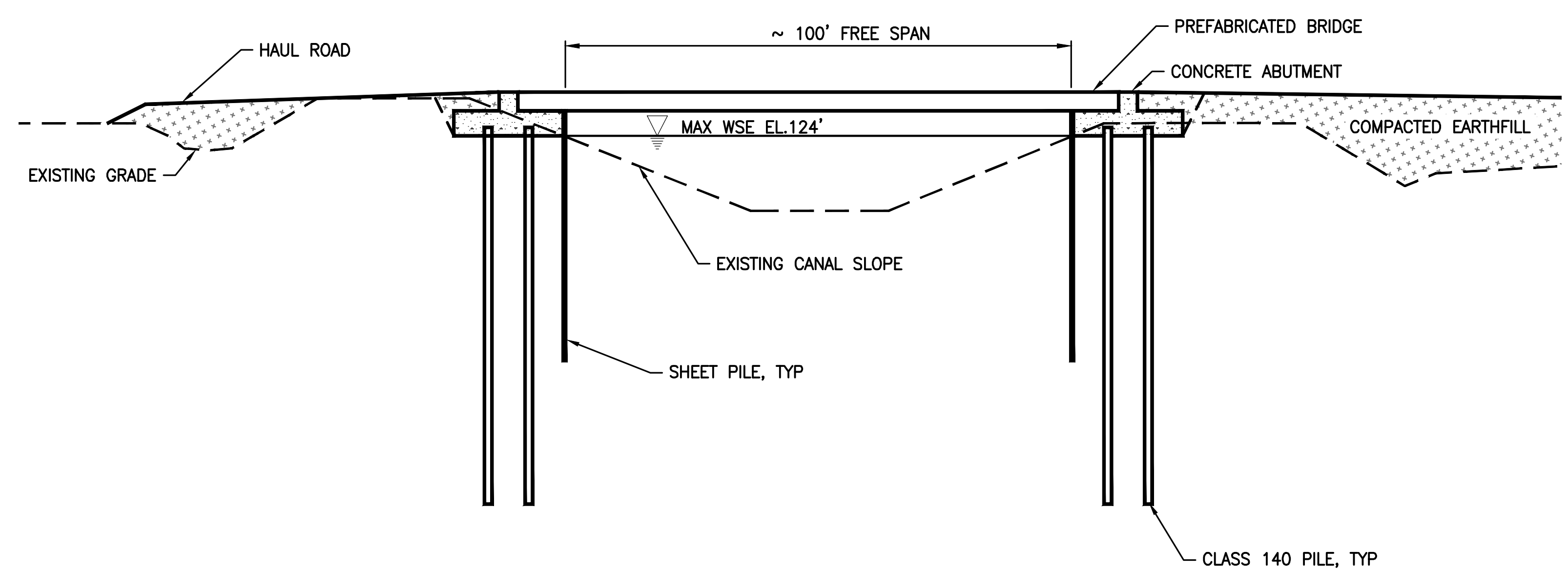
PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION



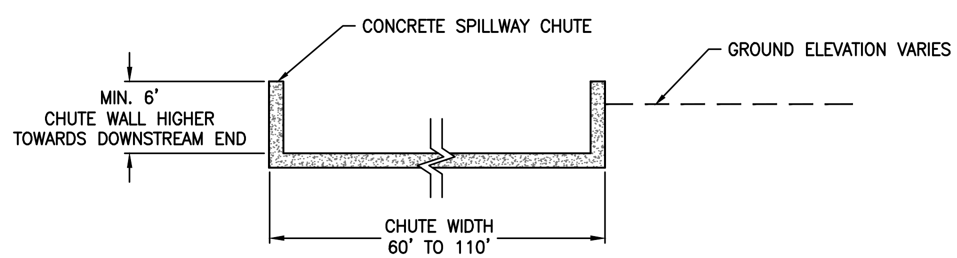
2 | PLAN, SPILLWAY
TRR-120-C-2401 | SCALE: 1" = 100'



D | PROFILE, SPILLWAY
– | HORIZ SCALE: 1" = 50'
VERT SCALE: 1" = 10'



C | PROFILE, BRIDGE
TRR-120-C-2401 | SCALE: NTS



E | SECTION, SPILLWAY
– | SCALE: NTS

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:SASHA KHALAMEYZER –November 5, 2020–3:44:42 PM
DRAWING: TRR-120-C-3402_D3380600.dwg
JACOBS PROJECT # D3380600

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: D MORLEY
DRAWN BY: S KHALAMEYZER
CHECKED BY: B MARTINEZ
IN CHARGE: P RUDE
DATE: 11-09-2020

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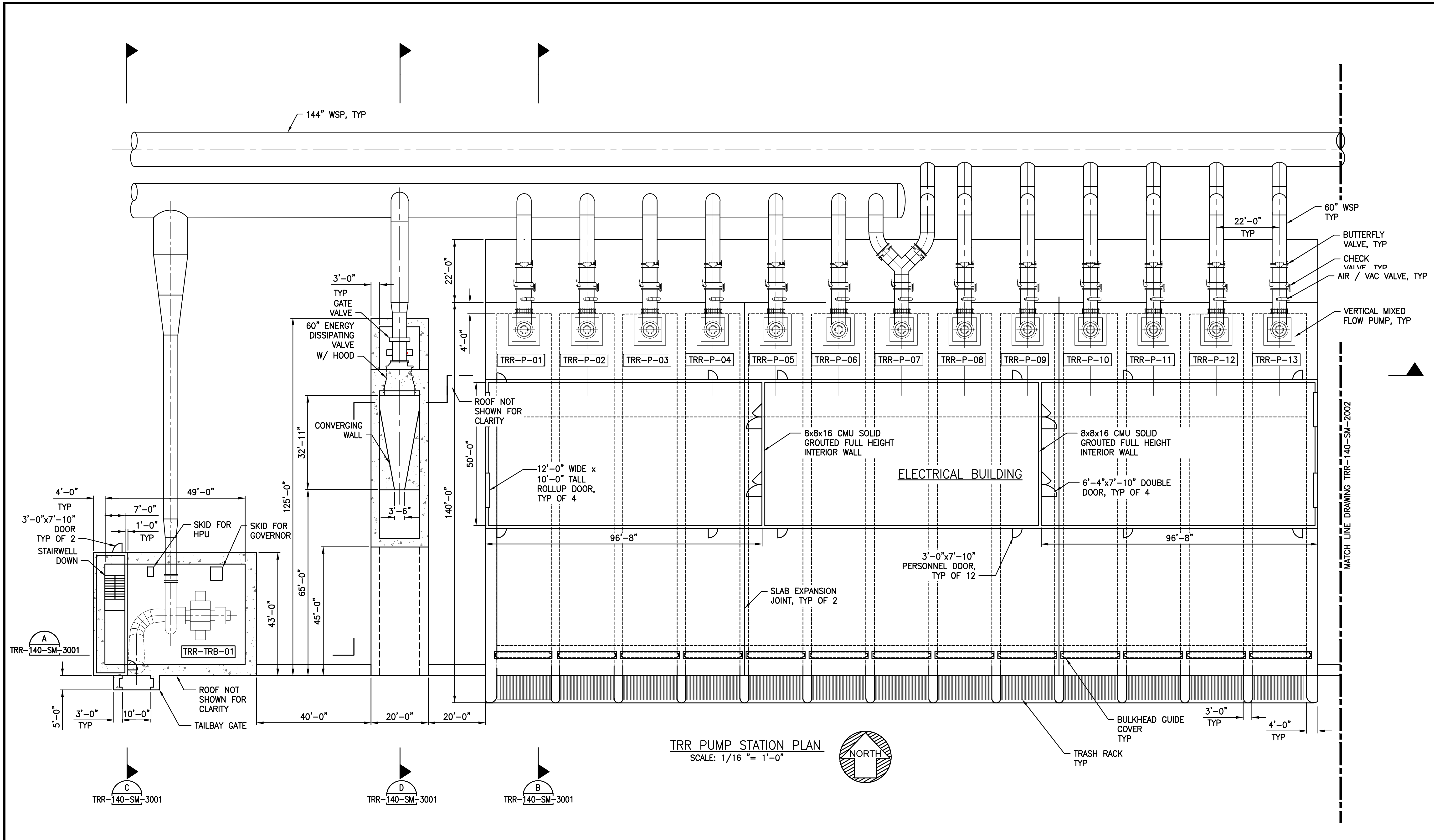
STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2
TERMINAL REGULATING RESERVOIR – EAST
STRUCTURES
SECTIONS AND DETAILS

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
TRR-120-C-3402



PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:CAVE, DAVID/RDD –November 5, 2020–3:44:42 PM
DRAWING: TRR-140-SM-2001_D3380600.dwg
JACOBS PROJECT # D3380600

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: KELLOGG/RIESS
DRAWN BY: S HAUNG
CHECKED BY: HH / WM
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
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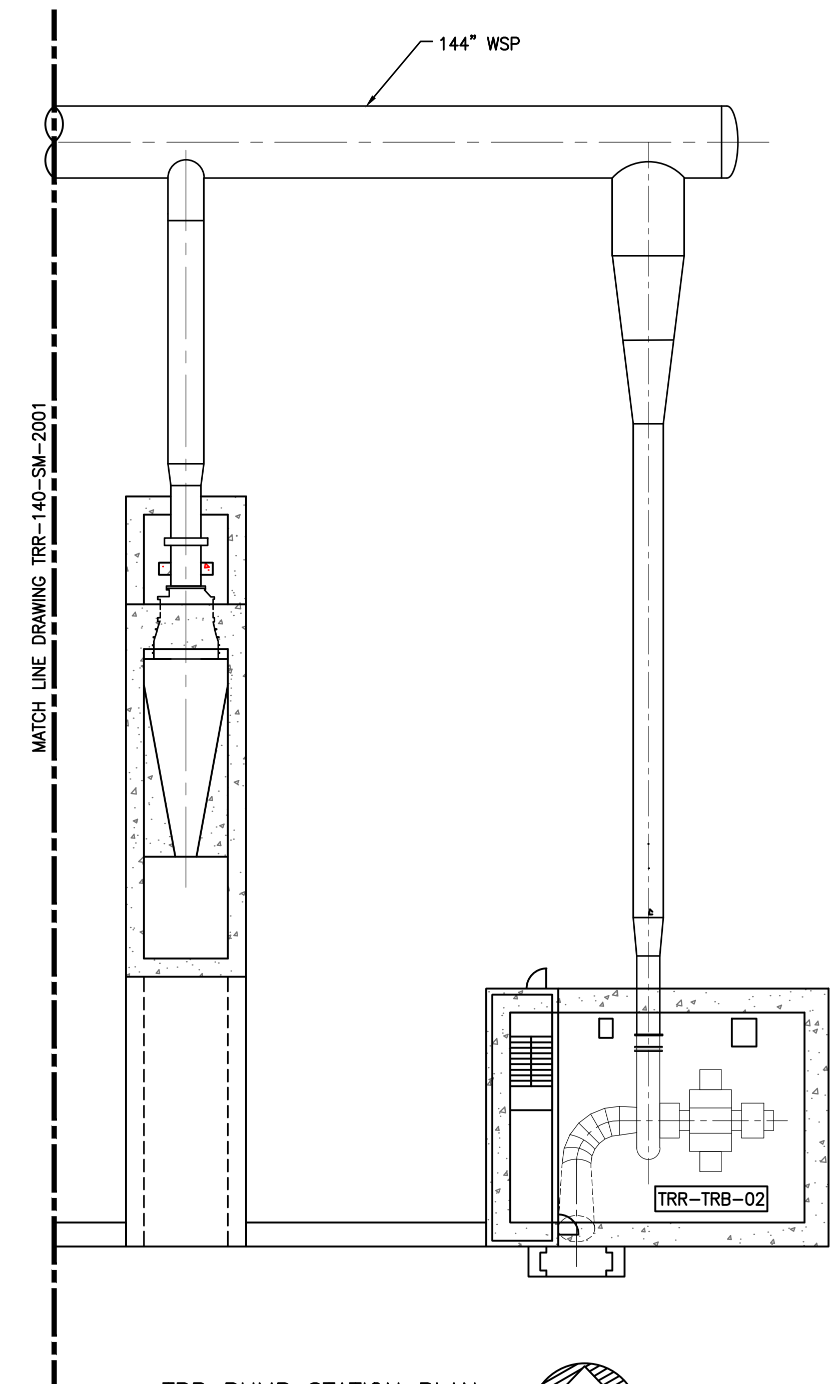
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

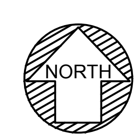
SITES RESERVOIR TO 2
TERMINAL REGULATING RESERVOIR EAST
PUMPING GENERATING PLANT
PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
TRR-140-SM-2001



TRR PUMP STATION PLAN
SCALE: 1/16 "= 1'-0"



NOTES:

1. CALLOUTS AND DIMENSIONS ARE SIMILAR TO SHOWN ON DWG TRR-140-SM-2001.

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY:	KELLOGG/RIESS
DRAWN BY:	S HAUNG
CHECKED BY:	HH / WM
IN CHARGE:	P RUDE
DATE:	11-09-2020

JACOBS
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STATE OF CALIFORNIA

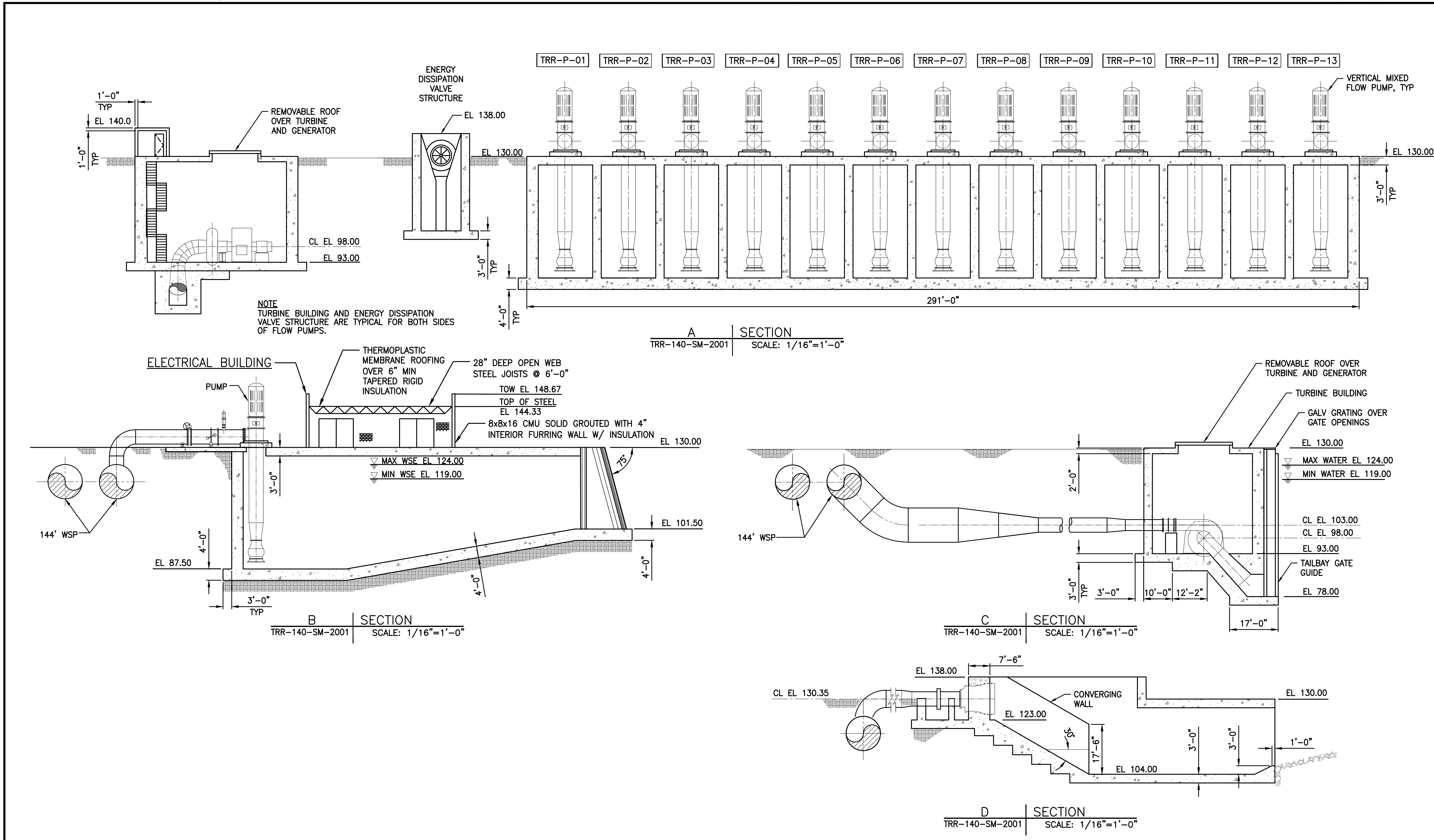
Sites

SITES RESERVOIR TO 2
TERMINAL REGULATING RESERVOIR EAST
PUMPING GENERATING PLANT
PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
TRR-140-SM-2002

PROJECT FEASIBILITY STUDY - NOT FOR CONSTRUCTION



PROJECT FEASIBILITY STUDY — NOT FOR CONSTRUCTION

PLOTTED BY:CAVE, DAVID/RDD ~November 5, 2020~3:44:42 PM
DRAWING: TRR-140-SM-3001_D3380600.dwg
JACOBS PROJECT # D3380600

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: KELLOGG/RIESS
DRAWN BY: S HUANG
CHECKED BY: HH / WM
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
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PHONE: (530) 243-5831

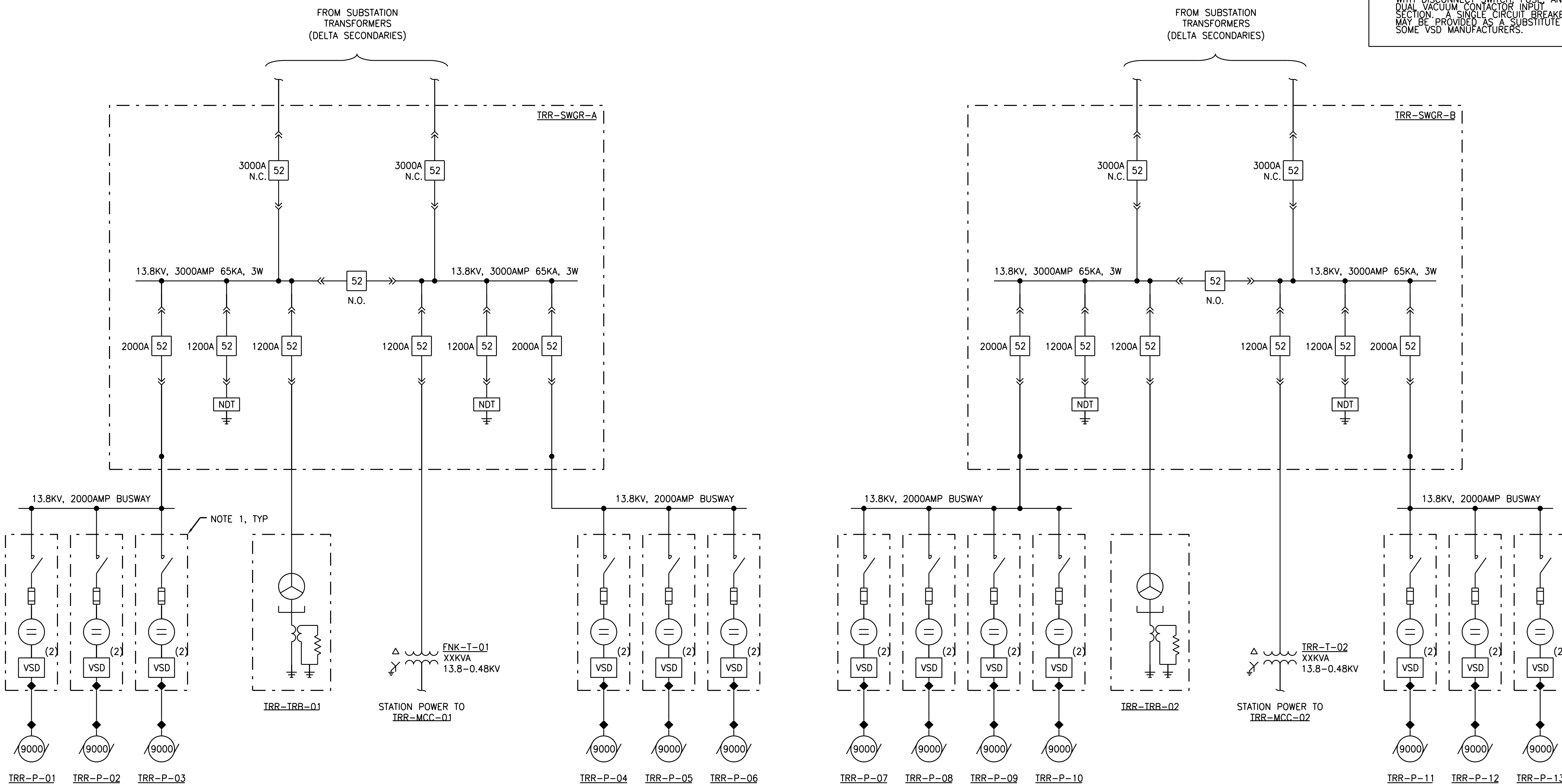
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2
TERMINAL REGULATING RESERVOIR EAST PUMPING GENERATING PLANT SECTIONS

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
TRR-140-SM-3001



SHEET KEYNOTES

1. VARIABLE SPEED DRIVE (VSD) SHOWN WITH DISCONNECT SWITCH, FUSE, AND DUAL VACUUM CONTACTOR INPUT SECTION. A SINGLE CIRCUIT BREAKER MAY BE PROVIDED AS A SUBSTITUTE BY SOME VSD MANUFACTURERS.

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY:	C CUSWORTH
DRAWN BY:	R FURMANSKI
CHECKED BY:	J LANDMAN
IN CHARGE:	P RUDE
DATE:	11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

Sites

SITES RESERVOIR TO 2

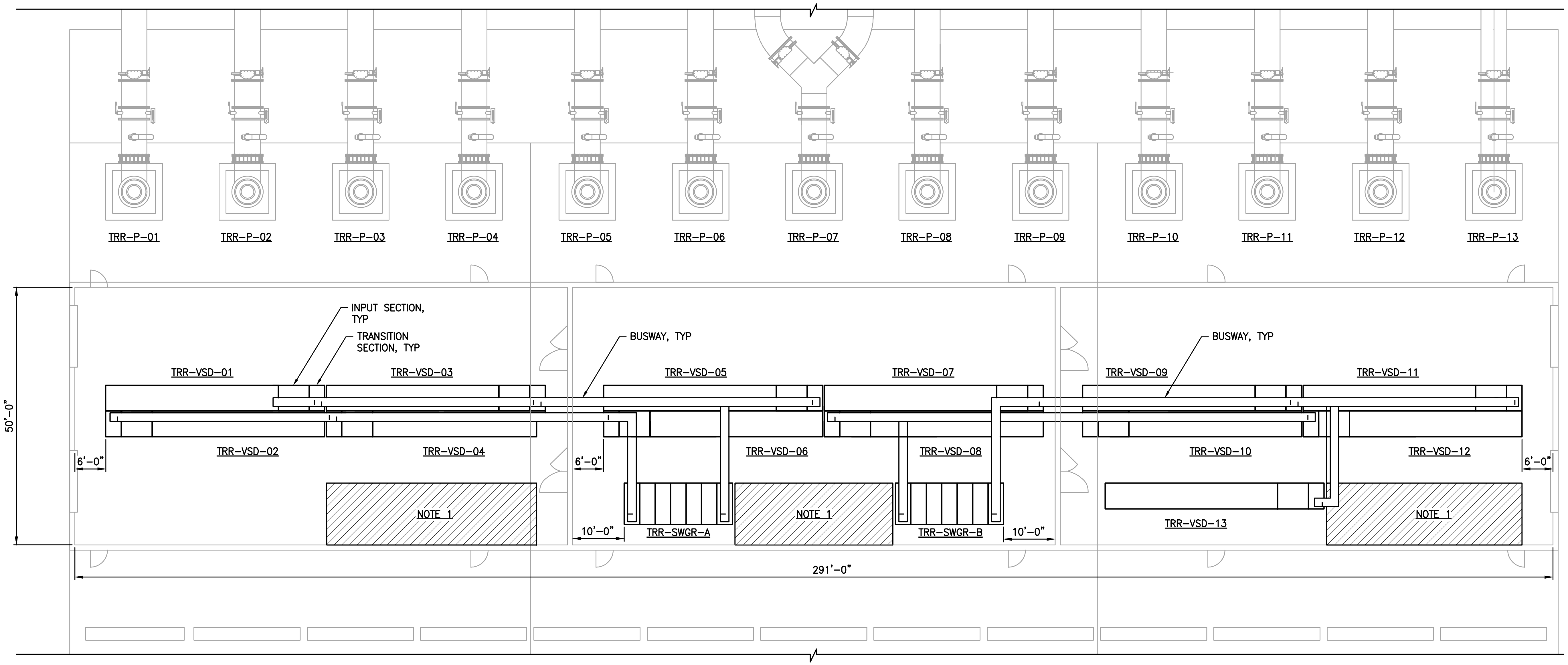
TERMINAL REGULATING RESERVOIR EAST PUMPING GENERATING PLANT ONE LINE DIAGRAM

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

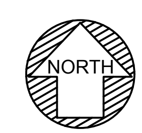
DRAWING NO.
TRR-140-E-6001

FILE NAME $FILENAME
PLOT DATE $PLOTDATE
PLOT TIME $PLOTTIME

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION



ELECTRICAL BUILDING POWER PLAN
SCALE: 3/32" = 1'-0"



ORIENTATION AT TERMINAL REGULATING RESERVOIR

GENERAL NOTES

1. SPACE RESERVED FOR STATION AUX. XFMRS, SWITCHBOARDS, SWITCHGEAR BATTERY SYSTEM AND MISC. LOW VOLTAGE DISTRIBUTION AND EQUIPMENT.
2. ELECTRICAL BUILDING FOR THE TRR PUMPING GENERATING PLANT IS SIMILAR TO FUNKS.

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY:	C CUSWORTH
DRAWN BY:	S METCALF
CHECKED BY:	J LANDMAN
IN CHARGE:	P RUDE
DATE:	11-09-2020

JACOBS
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REDDING CA, 96001
PHONE: (530) 243-5831

Sites

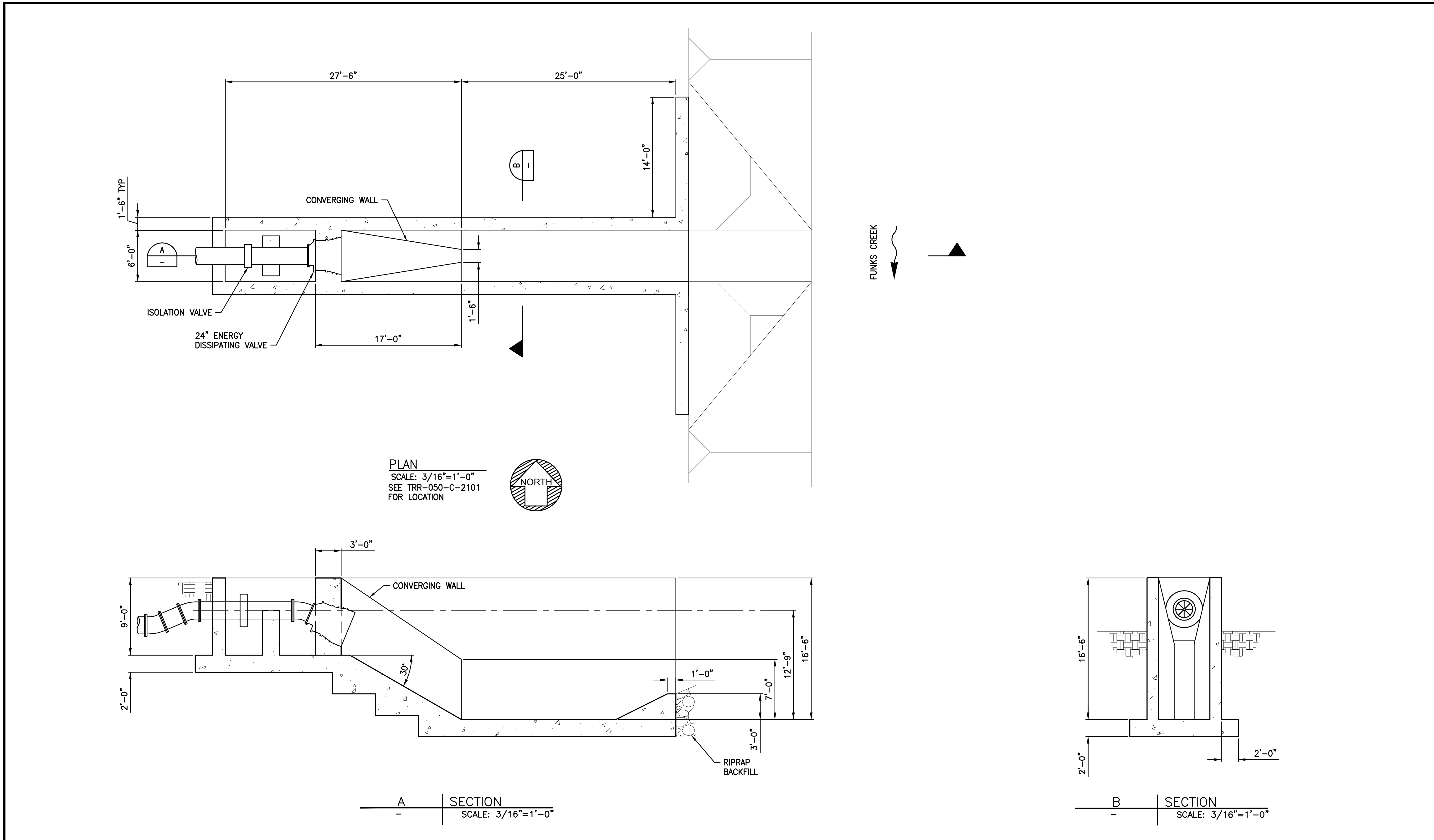
SITES RESERVOIR TO 2
TERMINAL REGULATING RESERVOIR EAST
ELECTRICAL BUILDING
POWER PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
TRR-141-E-2201

PROJECT FEASIBILITY STUDY — NOT FOR CONSTRUCTION

PLOTTED BY:CAVE, DAVID/RDD -November 7, 2020-3:44:42 PM
DRAWING: TRR-141-E-2201_D3380600.dwg
JACOBS PROJECT # D3380600



PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:CAVE, DAVID/RDD –November 5, 2020–3:44:42 PM
DRAWING: TRR-160-SM-2001_D3380600.dwg
JACOBS PROJECT # D3880600

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: KELLOGG/SMITH
DRAWN BY: S METCALF
CHECKED BY: HH / WM
IN CHARGE: P RUDE
DATE: 11-09-2020

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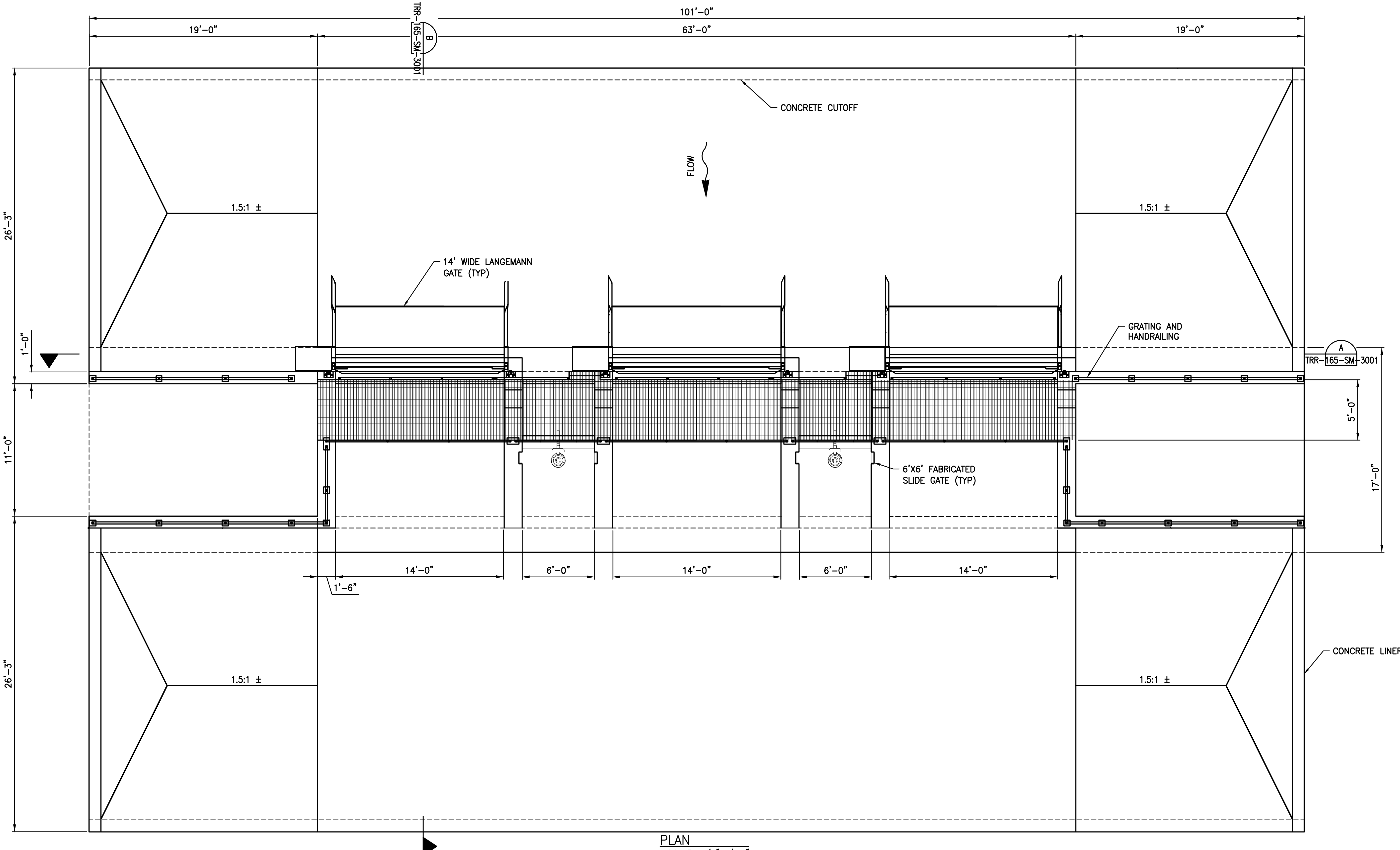
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2
TERMINAL REGULATING RESERVOIR EAST
ENVIRONMENTAL WATER PIPELINE DISCHARGE STRUCTURE
PLAN AND SECTIONS

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
TRR-160-SM-2001



PLAN
SCALE: 1/4"=1'-0"

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: J KELLOGG
DRAWN BY: S FLASKA
CHECKED BY: H HENRIKSON
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

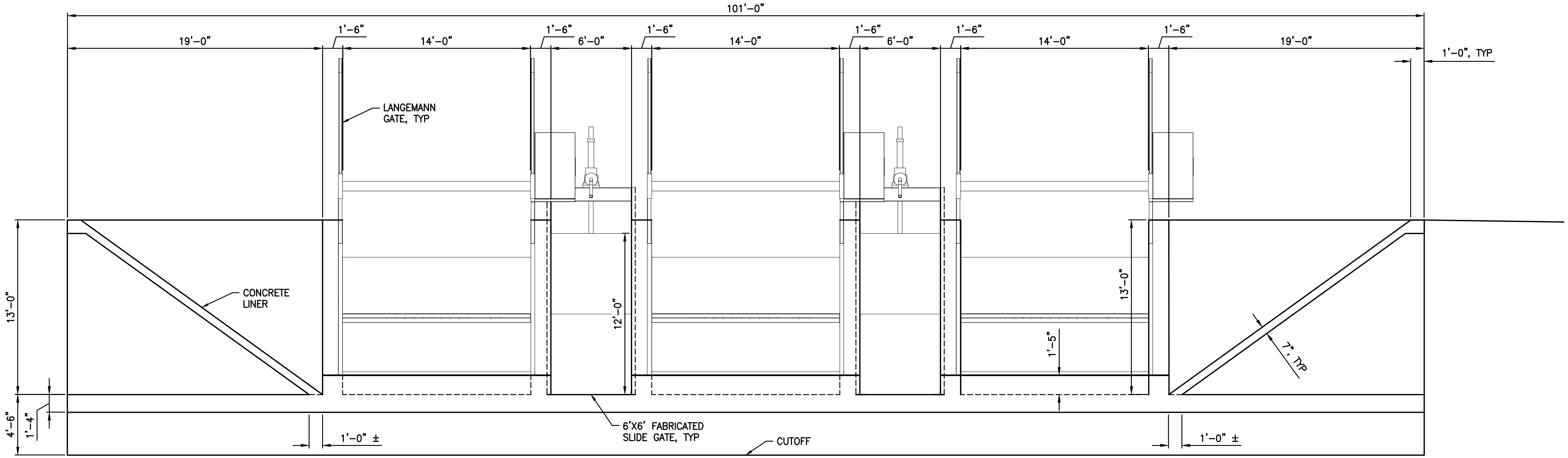
Sites

SITES RESERVOIR TO 2
TERMINAL REGULATING RESERVOIR EAST
CHECK STRUCTURE
PLAN

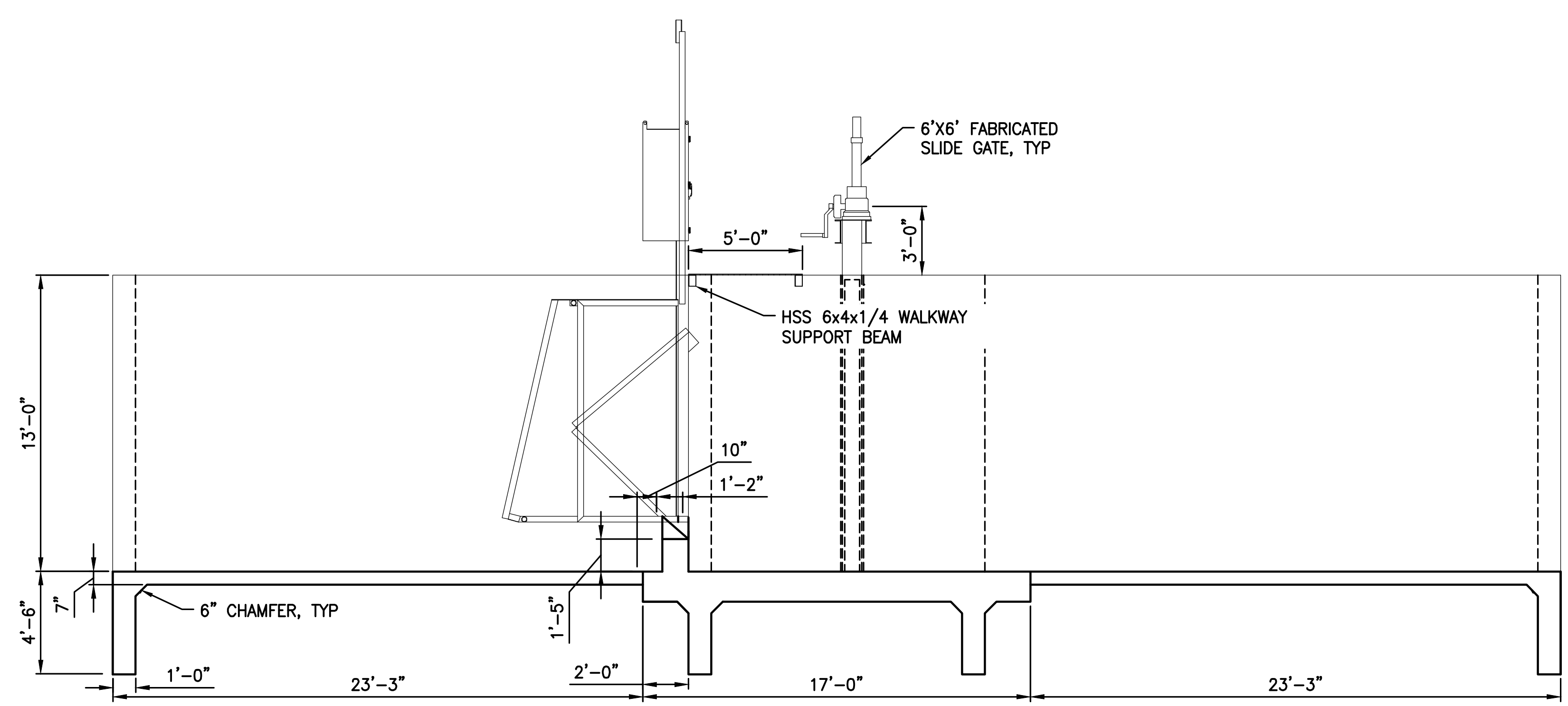
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS
0 1"

DRAWING NO.
TRR-165-SM-2001

PLOTTED BY:CAVE, DAVID/RDD -November 5, 2020-3:44:42 PM
DRAWING: TRR-165-SM-2001_D3380600.dwg
JACOBS PROJECT # D3880600



A | SECTION
TRR-165-SM-3001 | SCALE: 1/4"=1'-0"



B | SECTION
TRR-165-SM-3001 | SCALE: 1/4"=1'-0"

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: J KELLOGG
DRAWN BY: S FLASKA
CHECKED BY: H HENRIKSON
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
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REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Sites

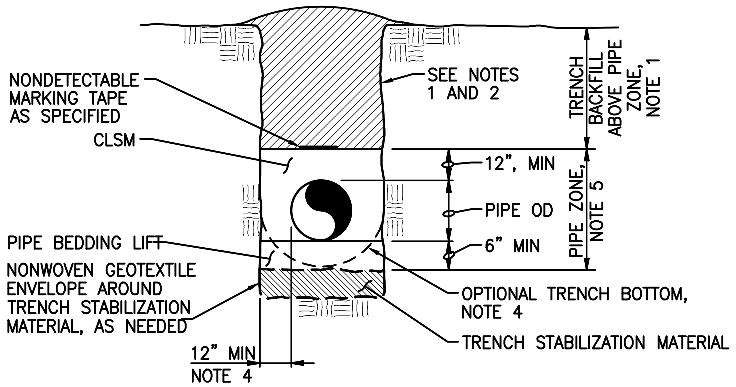
SITES RESERVOIR TO 2
TERMINAL REGULATING RESERVOIR EAST CHECK STRUCTURE SECTIONS

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
TRR-165-SM-3001

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:CAVE, DAVID/RDD –November 5, 2020–3:44:42 PM
DRAWING: TRR-165-SM-3001_D3380600.dwg
JACOBS PROJECT # D3880600



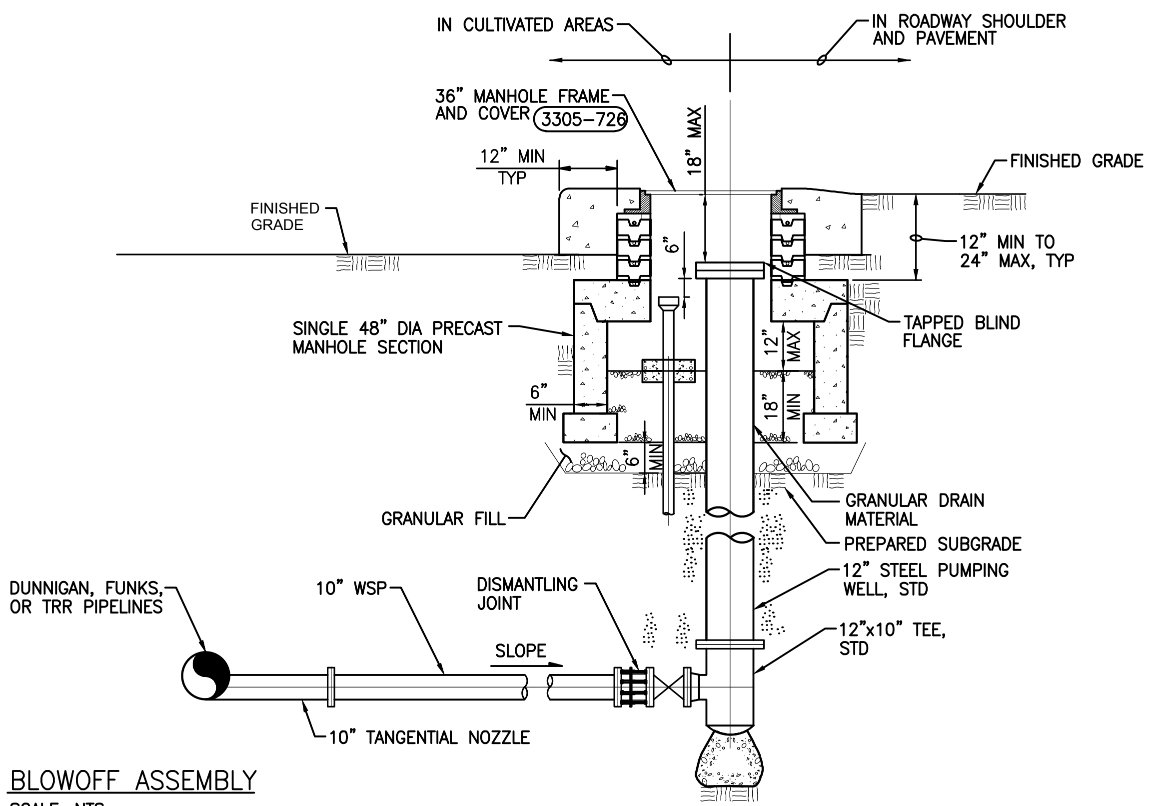
NOTES:

1. VERTICAL TRENCH WALLS ARE SHOWN FOR ILLUSTRATION PURPOSES ONLY. SUBCONTRACTOR SHALL EXCAVATE AS NEEDED FOR CONSTRUCTION AND SLOPE AND/OR PROVIDE ADEQUATE SHORING FOR SAFETY AND CONFORMANCE, WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES AND REGULATIONS. DO NOT EXCEED AVAILABLE WORK AREA.
2. PIPE ZONE AND BACKFILL MATERIAL AS SHOWN OR SPECIFIED SHALL EXTEND TO THE EDGE OF THE EXCAVATED TRENCH UNLESS SHOWN OTHERWISE.
3. PIPE SHALL BE CENTERED IN TRENCH.
4. THE TRENCH BOTTOM MAY BE ROUNDED (EXCEPT THROUGH HORIZONTAL CURVES), PROVIDED THAT MINIMUM CLEARANCES SHOWN ARE MAINTAINED BETWEEN THE OUTSIDE OF THE PIPE AND THE BOTTOM AND SIDES OF THE TRENCH.
5. PIPE ZONE MATERIAL SHALL BE CLSM. CLSM PLACEMENT REQUIREMENTS:
   A) CLSM SHALL BE VIBRATED IF NECESSARY AS DETERMINED BY JACOBS FOR CLSM TO FLOW UNDER AND AROUND THE PIPE AS SPECIFIED.
   B) SUPPORT PIPE ON SANDBAGS PRIOR TO PLACING CLSM.

TYPICAL TRENCH SECTION

SCALE: NTS

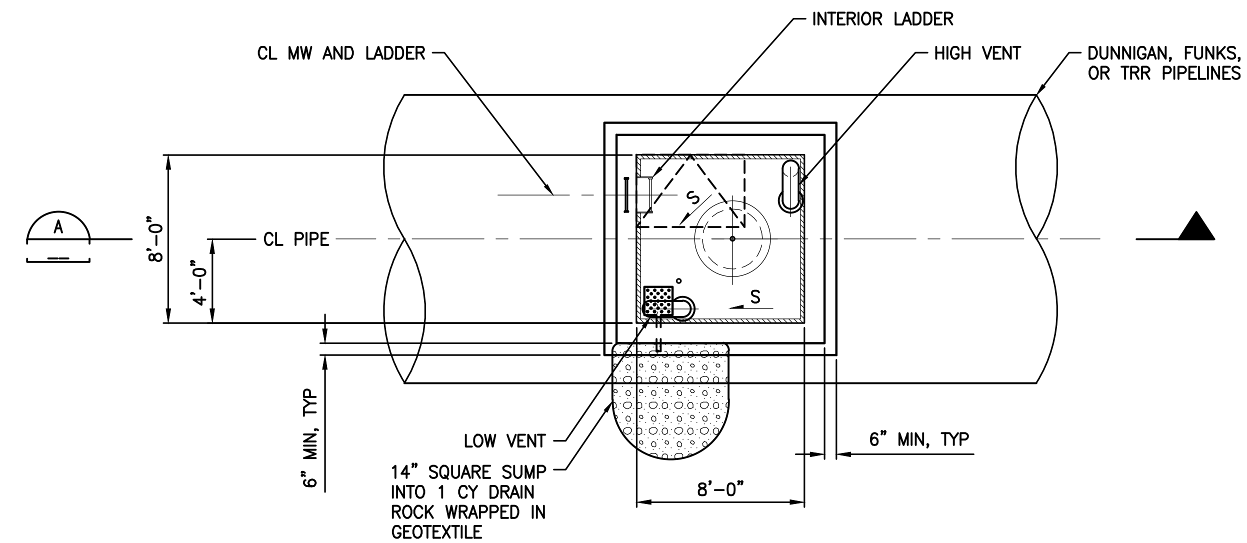
(3123–110)



BLOWOFF ASSEMBLY

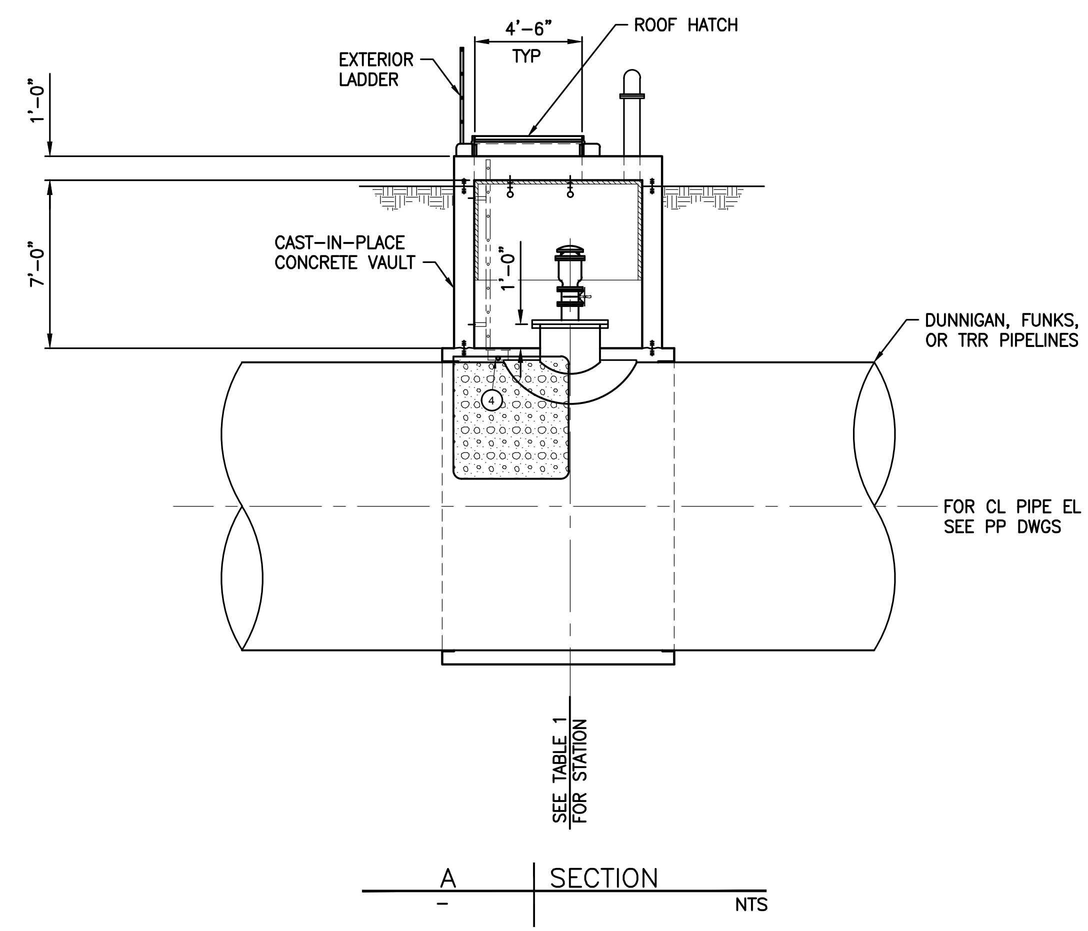
SCALE: NTS

(3305–932)



PLAN

SCALE: NTS



A SECTION

NTS

AIR VALVE/ACCESS MANWAY VAULT

SCALE: NTS

(3305–931)

I/R	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: N MASCHKE
DRAWN BY: S METCALF
CHECKED BY: HH / WM
IN CHARGE: P RUDE
DATE: 11-09-2020

JACOBS
2525 AIRPARK DR
REDDING CA, 96001
PHONE: (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA

Sites

SITES RESERVOIR TO 2
STANDARD DETAILS
CIVIL

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALE FOR REDUCED PLOTS

DRAWING NO.
STD–199–C–5001

PROJECT FEASIBILITY STUDY – NOT FOR CONSTRUCTION

PLOTTED BY:CAVE, DAVID/RDD –November 5, 2020–3:44:42 PM
DRAWING: STD–199–C–5001_D3380600.dwg
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