

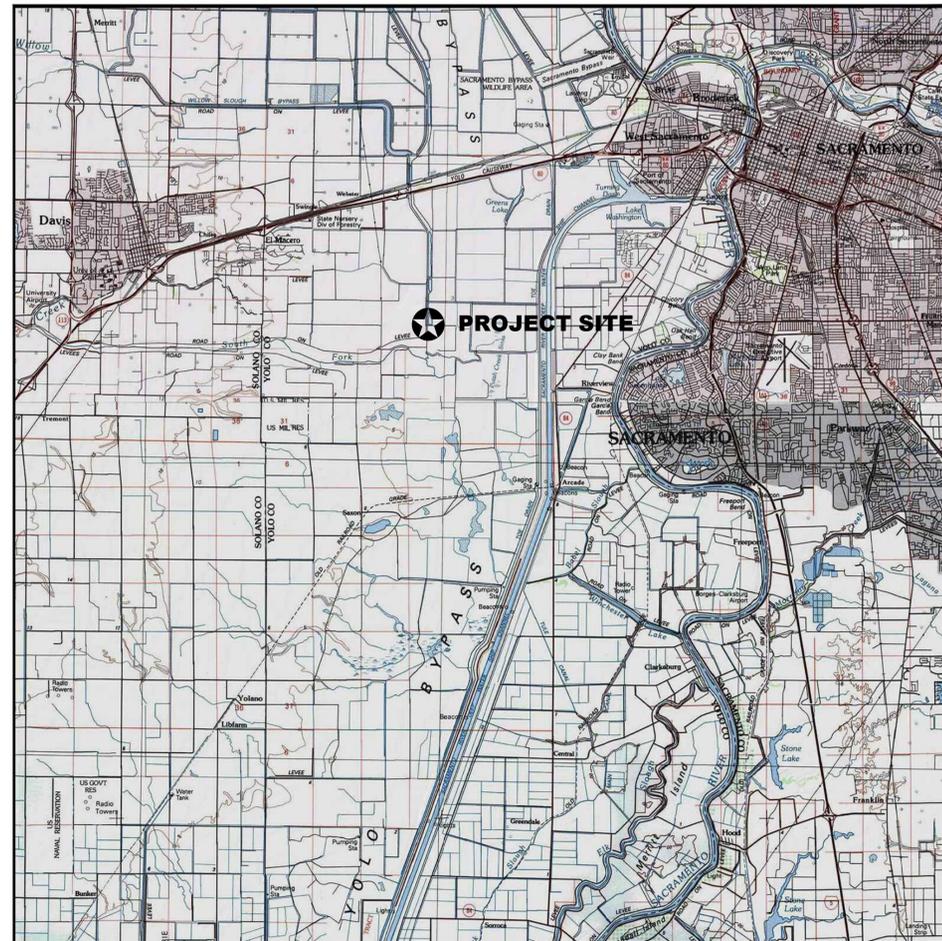


# US-CA-559-2

## YOLO BYPASS WILDLIFE AREA

### PARKER POND - PUMP INSTALLATION

#### LOCATION MAP



NOT TO SCALE

#### VICINITY MAP



#### SURVEY DATUM

Horizontal and Vertical Control:  
 The horizontal datum for this survey is the California Coordinate System of 1983, Zone 2 (0402), NAD 83, Epoch Date 2007.00 in U.S. Survey Feet. The vertical datum for this survey is the North American Vertical Datum of 1988 (NAVD88) computed using GEOID03. Both datums were derived from GPS observations collected on December 17, 2007. Said observations were fixed to local area National Geodetic Survey (NGS) horizontal and vertical control points, respectively.

#### MAP DATA

Contour Interval: 1 Foot  
 Aerial Photo: 2016 NAIP, Google Earth

#### SHEET INDEX

- 1 Cover Sheet
- 2 Definitions & Legend
- 3 Sheet Index
- 4 Site Plan
- 5 Plan & Profile
- 6 Details

#### EMERGENCY CONTACT INFORMATION

In case of fire: CALL 911  
 Then contact:  
 Joe Hobbs at (530) 757-2431

#### PROJECT DIRECTORY

Ducks Unlimited, Inc.  
 Western Regional Office  
 3074 Gold Canal Drive  
 Rancho Cordova, Ca. 95670-6116  
 Ph. (916) 852-2000

**65% DESIGN**

**Unauthorized Changes & Uses**  
 The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes must be in writing and must be approved by the preparer of these plans.



REV. NO.	DESCRIPTION	DATE	APPROVED



PROJECT NO. **US-CA-559-2** DATE: **6/21/2018**  
**YOLO BYPASS WILDLIFE AREA**  
**PARKER POND - PUMP INSTALLATION**  
**COVER SHEET**

DESIGNED BY: BW  
 DRAWN BY: AT  
 SURVEYED BY: JM  
 CHECKED BY: BW  
 SHEET NO.

**GENERAL NOTES:**

- Ducks Unlimited makes no representations as to the existence or nonexistence of utilities. It is the responsibility of the contractor to comply with the provisions of all applicable utility notification regulations. The contractor will be liable for any damage to utilities caused by construction activities.
- The engineer does not represent that the location of utilities shown on the plans are exact or complete. It shall be the responsibility of the contractor to determine the presence of, actual locations of and make provisions for all watercourses and utilities. The contractor shall verify location, depth and height. Their verification shall be coordinated by the contractor with the appropriate utility company.
- The contractor shall exercise extreme caution when working in the vicinity of overhead power lines. Verify location in the field and protect in place.
- At least 2 working days prior to beginning any digging or excavation work, the contractor shall notify underground service alert (a.k.a. USA North) at www.usanorth.org or by phone at 811 or 1-800-227-2600, to determine locations of existing utilities.
- In accordance with generally accepted construction practices, the contractor will be solely and completely responsible for the conditions of the job site including safety of all persons and property during performance of the work. The contractor shall ensure that all work is performed in accordance with occupational safety laws, including the design and construction of proper shoring of trenches. The duties of the project engineer do not include review of the adequacy of the contractor's safety in, on, or near the job site.
- It is the responsibility of the contractor to be knowledgeable about the project specifications and permits. All work shall be completed in compliance with the contract documents. The contractor shall have copies of the most current approved plans, specifications and permit conditions on site during all work operations.
- The project site and adjacent areas contain sensitive habitat areas for protected wildlife, and may include endangered species. The contractor shall protect wildlife and water quality, and minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.
- Should it appear that the work to be done, or any matter relative thereto, is not sufficiently detailed or explained on these plans or in the specifications, the contractor shall contact the construction manager for such further explanations as may be necessary.
- Should the contractor find any discrepancies between the conditions existing in the field and the information shown on the drawings, he shall notify the construction manager before proceeding with construction.

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**SURVEY POINT DESCRIPTORS**

CTBM	Bench Mark (permanent)	RDSH	Road Shoulder
CTBT	Bench Mark (temporary)	RDSN	Road Sign
CTCP	Survey Control Point (permanent)	RDTO	Road, Toe of Slope
CTCT	Survey Control Point (temporary)	RDTP	Road, Top of Slope
DIFL	Ditch Flowline	SDMH	Storm Drain, Manhole
DIGB	Ditch Grade Break	SDPI	Storm Drain, Pipe Invert
DITO	Ditch Toe	SDPT	Storm Drain, Pipe Top
DITP	Ditch Top	SSMH	Sanitary Sewer, Manhole
ELBX	Electric, Box or Pullbox	SWFL	Swale Flowline
ELGY	Electric, Guy Wire	SWG B	Swale Grade Break
ELPP	Electric, Power Pole	SWTO	Swale Toe
ELSN	Electric, Warning Sign	SWTP	Swale Top
ELTR	Electric, Transformer	TFBL	Topo Feature, Building
ELTW	Electric, Tower	TFBR	Topo Feature, Brush
ELVT	Electric, Vault	TFCO	Topo Feature, Concrete (pad, slab, etc.)
FNAP	Fence Angle Point	TFFL	Topo Feature, Flowline
FNCR	Fence Corner	TFGB	Topo Feature, Grade Break
FNGT	Fence Gate	TFGS	Topo Feature, Ground Shot
FNLN	Fence Line	TFRK	Topo Feature, Rock Or Rocky Area Boundary
IRCO	Irrigation Concrete Pad	TFTL	Topo Feature, Tree line
IRCP	Irrigation Control Panel	TFTO	Topo Feature, Grade Break at Toe
IRPI	Irrigation Pipe Invert	TFTP	Topo Feature, Grade Break at Top
IRPM	Irrigation Pump	TFTR	Topo Feature, Tree
IRPT	Irrigation Pipe Top	WAEW	Edge of Water
IRVL	Irrigation Valve	WAHW	High Water Mark
IRWL	Irrigation Well	WAUW	Under Water Ground Shot
LVCL	Levee Centerline	WAWS	Water Surface
LVGB	Levee Grade Break	WCFL	Water Control Structure, Flowline/Invert at Structure
LVTO	Levee Toe of Slope	WCFR	Water Control Structure, Frame Top
LVTP	Levee Top of Slope	WCHW	Water Control Structure, Headwall
RDCL	Road, Centerline	WCPI	Water Control Structure, Pipe Invert at Outlet
RDED	Road, Edge of Dirt Road	WCPT	Water Control Structure, Pipe Top at Outlet
RDEG	Road, Edge of Gravel Road	WCST	Water Control Structure, Top of Structure
RDEP	Road, Edge of Paved Road	WCWW	Water Control Structure, Wing Wall
RDGB	Road Grade Break		

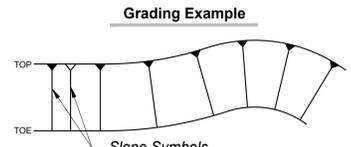
**ABBREVIATIONS**

AB	Aggregate Base	MIN	Minimum	WS	Water Surface
AC	Acre	MISC	Miscellaneous	WSEL	Water Surface Elevation
APPROX	Approximate	(N)	North	WWF	Welded Wire Fabric
BM	Benchmark	N	North	X:1	Slope, Horizontal:Vertical
CAP	Corrugated Aluminum Pipe	NIC	Not In Contract		
CC	Center to Center	NTS	Not To Scale		
CF	Cubic Foot	OC	On Center		
CFS	Cubic Foot Per Second	OD	Outside Diameter		
CL, $\epsilon$	Centerline	PIP	Pressure Irrigation Pipe		
CMP	Corrugated Metal Pipe	PP	Power Pole		
CMPA	Corrugated Metal Arch Pipe	PSI	Pounds per Square Inch		
CONC	Concrete	PT	Pressure Treated		
CP	Control Point	PVC	Polyvinyl Chloride		
CY	Cubic Yard	QTY	Quantity		
DEMO	Demolish	R	Right		
DIA, $\emptyset$	Diameter	RCB	Reinforced Concrete Box		
Dp	Pipe Diameter	RD	Road		
Dr	Riser Diameter	REF	Reference Dimension		
DU	Ducks Unlimited, Inc.	REQD	Required		
D/S	Downstream	ROW	Right Of Way		
E	East	S	South		
EG	Existing Ground	SCH	Schedule		
EL	Elevation	SS	Stainless Steel		
EX, EXIST	Existing	SDR	Standard Dimension Ratio		
FG	Finished Grade	SF	Square Feet		
FL	Flowline	SHT	Sheet		
FRG	Final Rough Grade	SP	Special		
FT	Foot, Feet	SPECS	Specifications		
FTG	Fitting, Footing	SY	Square Yard		
GA	Gauge	STA	Station		
GB	Grade Break	STD	Standard		
H	Height	TBD	To Be Determined by Engineer		
HDPE	High-Density Polyethylene	TBM	Temporary Benchmark		
HR	Half Round	TE	Top Elevation		
ID	Inside Diameter	TEMP	Temporary		
IE	Invert Elevation	TOI	Top of Island		
IG	Initial Grade	TOL	Top of Levee		
IN	Inch, Inches	TOB	Top of Berm		
INV	Invert	TYP	Typical		
IPS	Iron Pipe Size	USA	Underground Service Alert		
L	Length, Left	U/S	Upstream		
LBF	Pounds-Force	VLV	Valve		
LF	Linear Feet	W	Width, West (where applicable)		
MAINT	Maintenance	W/	With		
MAX	Maximum	WCS	Water Control Structure		

**LEGEND & STANDARD SYMBOLS** ( Symbols do not represent actual scale / size of object )

	Existing Fence Line - Barbed Wire		Existing Power / Telephone Pole
	Existing Fence Line - Chain Link		Existing Electric Guy Wire
	Existing Fence Line - Stockade		Existing Electric Transformer
	Power / Telephone Overhead Lines		Existing Electric Tower
	Underground Gas Line		Existing Electric Vault
	Electric Line		Existing Blind
	Force Main Line		Existing Gate Valve
	Sanitary Sewer Line		Existing Air Relief Valve
	Storm Drain Line		Existing Alfalfa / Overflow Valve
	Existing Ditch		Existing Irrigation Well
	Existing Levee		Existing Irrigation Pump
	Existing Swale		Existing Water Meter
	Existing Road - Dirt		Existing Fire Hydrant
	Existing Road - Gravel		Existing Manhole
	Existing Road - Paved		Existing Natural Gas Meter / Valve
	Existing Trees / Brushline		Existing Sign
			Existing Pipe / Culvert
			Existing Water Control Structure (Precast Concrete)
			Existing Water Control Structure (Full Round)
			Existing Water Control Structure (Half Round)

	WCS01	Water Control Structure ID#		New Power Pole
	1	Revision Number Identifier		New Gate Valve
		Cut/Borrow Area / Pothole		New Air Relief Valve
		Fill Area		New Alfalfa / Overflow Valve
		Ditch Cleaning		New Irrigation Pump
		New Ditch Centerline / Flowline		New Water Control Structure
		New Swale Centerline / Flowline		New Water Control Structure
		Regrade Existing Swale		Benchmark
		New Levee Centerline		Temporary Benchmark
		Improved Levee Centerline		Control Point
		Regraded/Lowered Levee Centerline		
		Remove Existing Levee		
	DESIGN WSEL=XXX.X	Design Water Surface Elevation		



**DETAILING CONVENTIONS**

	Section Letter		Detail Number		Section Letter		Direction of Section
	SEE SECTION		SEE DETAIL		Sheet Where Section is Shown		Sheet Where Detail is Shown
	TYPICAL DETAIL XXX		TYPICAL SECTION XXX		Section Cut (Alternate)		Construction Notes (See sheet where appears)

**65% DESIGN**

REV. NO.	DESCRIPTION	DATE	APPROVED	PROJECT NO.	DATE	DESIGNED BY:
				US-CA-559-2	6/21/2018	BW
				<b>YOLO BYPASS WILDLIFE AREA PARKER POND - PUMP INSTALLATION</b>		
				DRAWN BY: AT		
				SURVEYED BY: JM		
				CHECKED BY: BW		
				SHEET NO.		





0 50 100  
FEET  
HORIZONTAL SCALE

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REVISIONS				
REV. NO.	DESCRIPTION	DATE	APPROVED	
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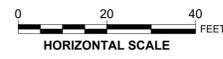
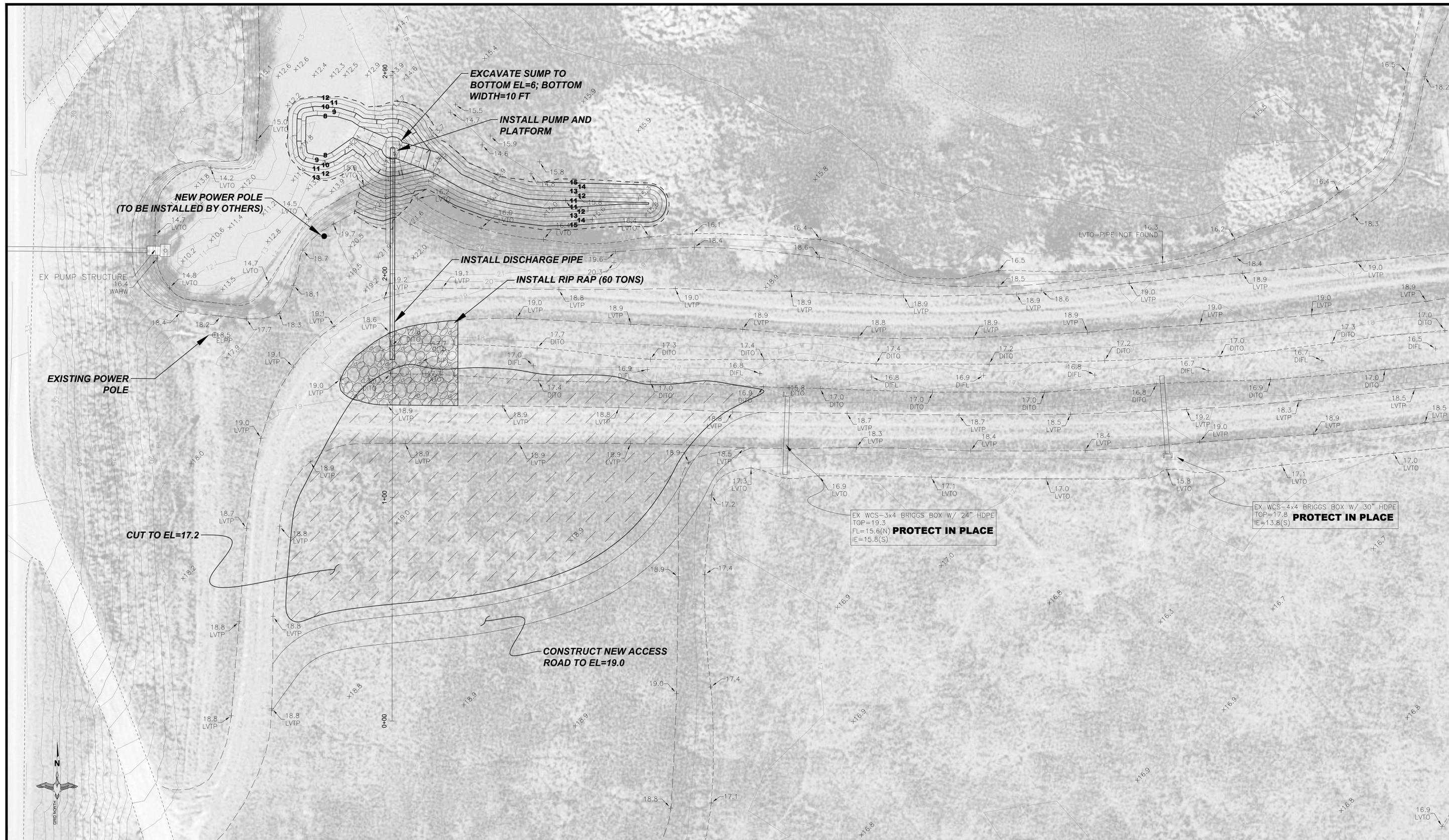
PROJECT NO. **US-CA-559-2** DATE: **6/21/2018**  
**YOLO BYPASS WILDLIFE AREA**  
**PARKER POND - PUMP INSTALLATION**

DESIGNED BY: BW  
 DRAWN BY: AT  
 SURVEYED BY: JM  
 CHECKED BY: BW  
 SHEET NO.

SHEET INDEX

**3 of 6**

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REV. NO.	DESCRIPTION	DATE	APPROVED
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2			
3			
4			



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PROJECT NO. **US-CA-559-2** DATE: **6/21/2018** DESIGNED BY: **BW**

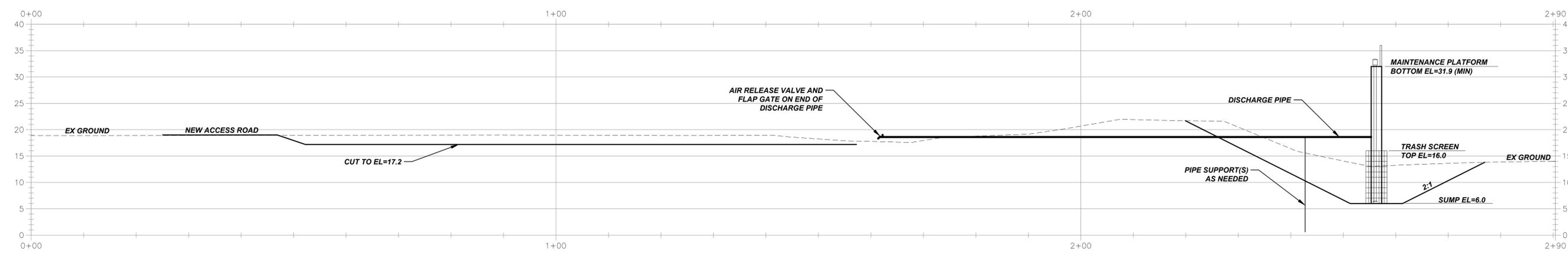
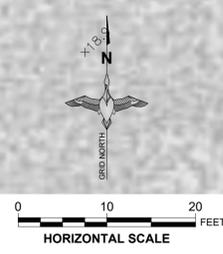
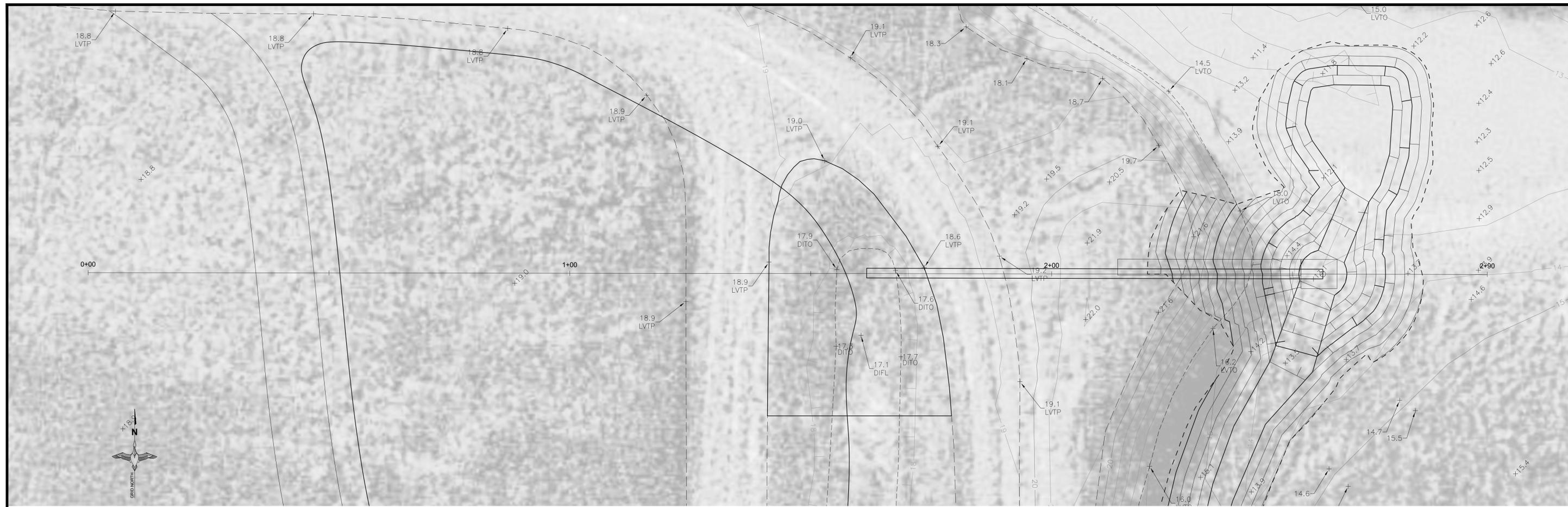
**YOLO BYPASS WILDLIFE AREA** DRAWN BY: **AT**

**PARKER POND - PUMP INSTALLATION** SURVEYED BY: **JM**

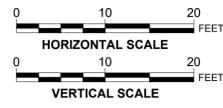
CHECKED BY: **BW**

SHEET NO. **4 of 6**

**SITE PLAN**



**PROFILE - Pipeline (Sta. 0+00.00 to Sta. 2+90.42)**



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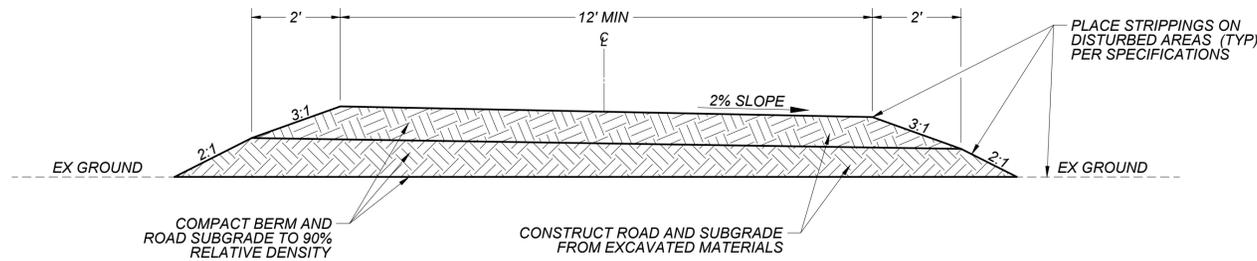
PROJECT NO. **US-CA-559-2** DATE: **6/21/2018** DESIGNED BY: **BW**

**YOLO BYPASS WILDLIFE AREA** DRAWN BY: **AT**

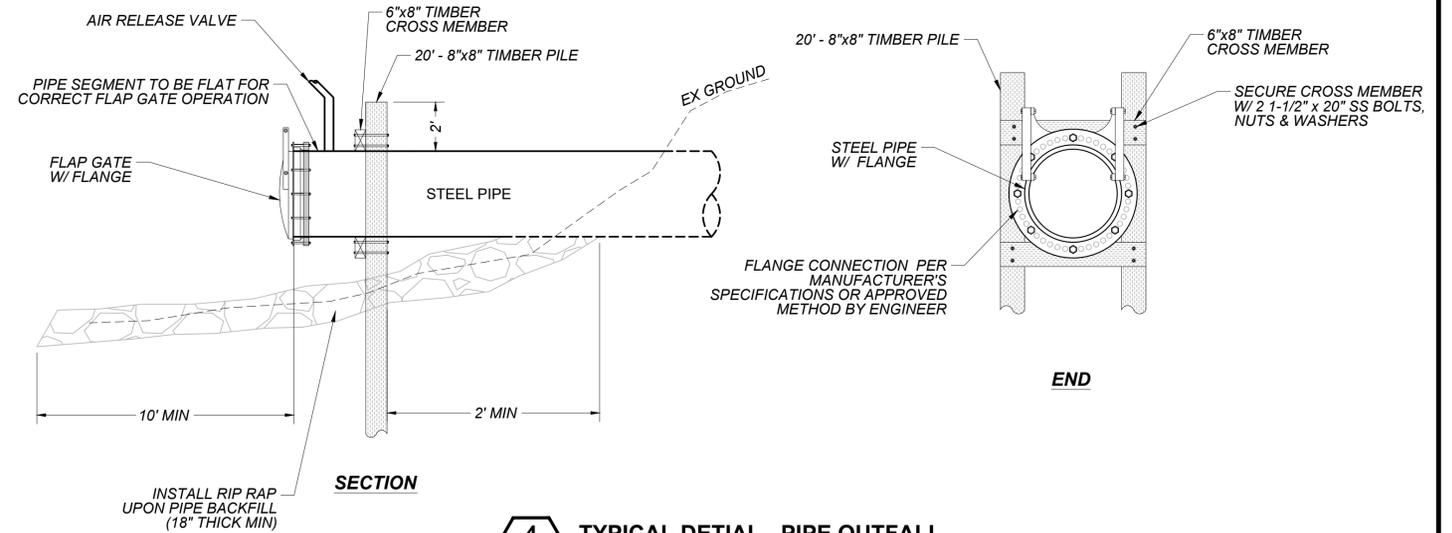
**PARKER POND - PUMP INSTALLATION** SURVEYED BY: **JM**

CHECKED BY: **BW**

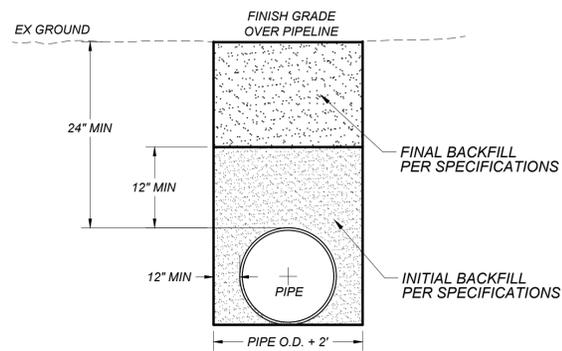
**PLAN & PROFILE** SHEET NO. **5 of 6**



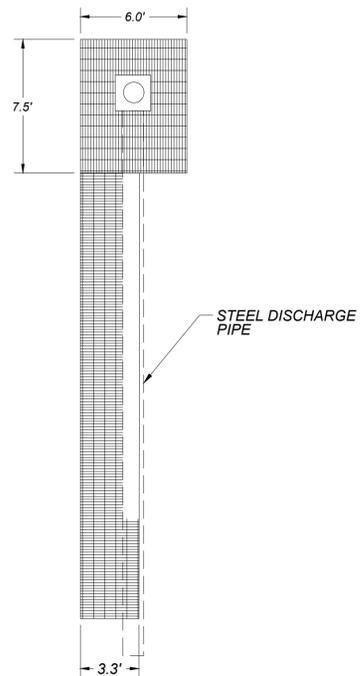
**1 TYPICAL DETAIL - ROAD IMPROVEMENT**  
NOT TO SCALE



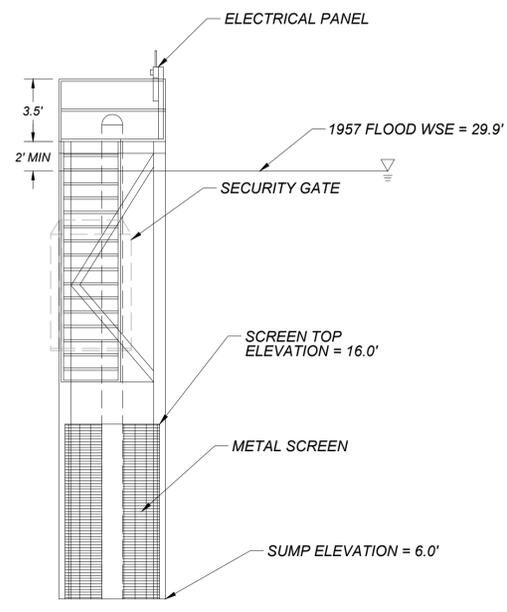
**4 TYPICAL DETIAL - PIPE OUTFALL**  
NOT TO SCALE



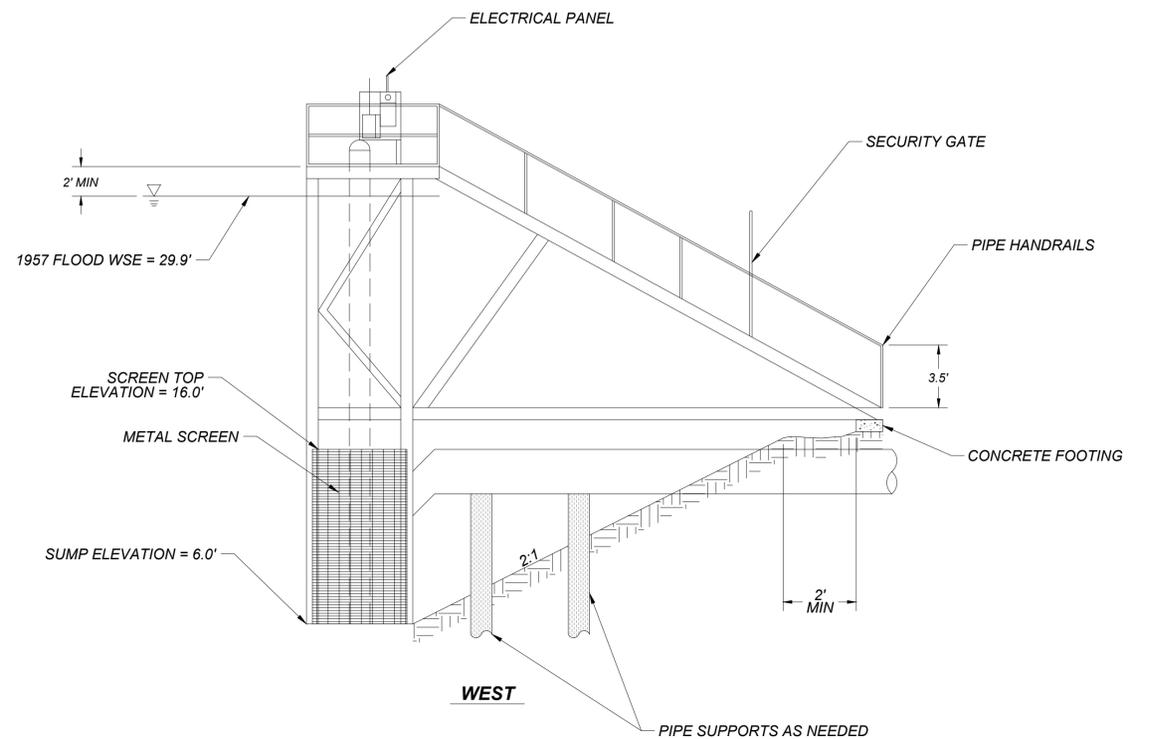
**2 TYPICAL DETAIL - PIPE TRENCH**  
NOT TO SCALE



**PLAN**



**SOUTH**



**WEST**

**3 TYPICAL DETAIL - PUMP STATION**  
NOT TO SCALE

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**PARKER POND - PUMP INSTALLATION**  
 DESIGNED BY: BW  
 DRAWN BY: AT  
 SURVEYED BY: JM  
 CHECKED BY: BW  
 SHEET NO. **6 of 6**

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**DETAILS**