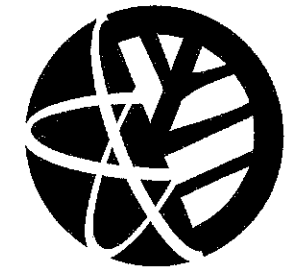
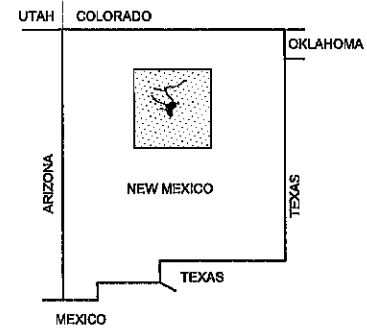


Lift Station Rehabilitation Project - Los Arboles and North Road

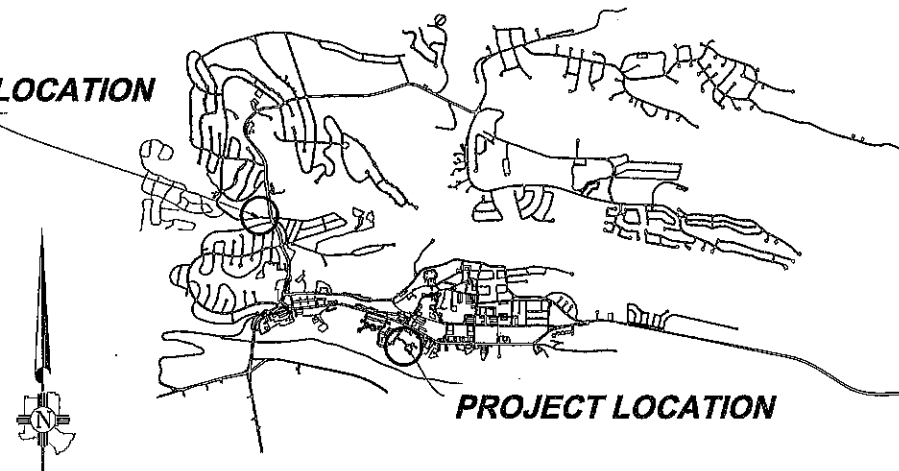
IFB-2025-30
LOS ALAMOS COUNTY - NEW MEXICO



LOS ALAMOS



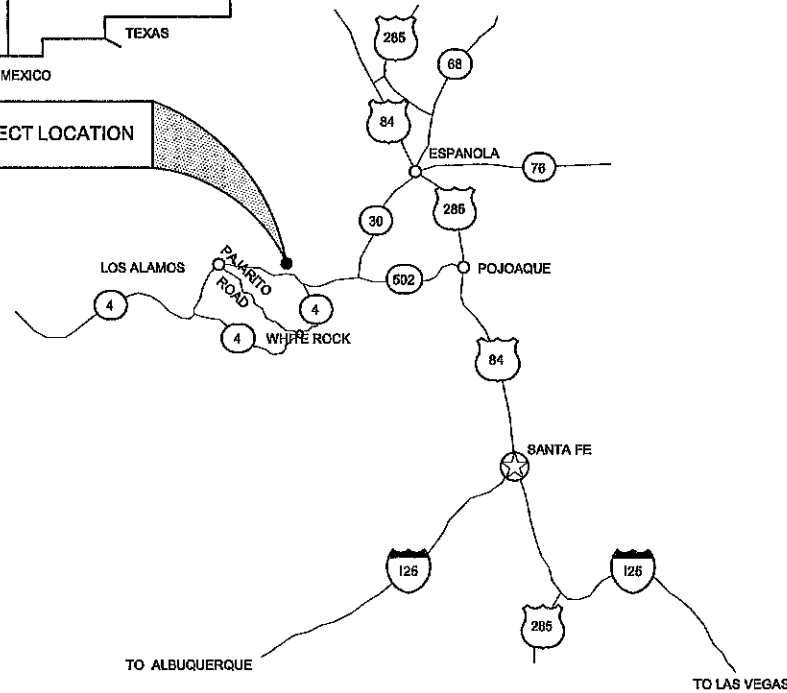
PROJECT LOCATION



PROJECT LOCATION

LOS ALAMOS VICINITY MAP
NOT TO SCALE

PROJECT LOCATION



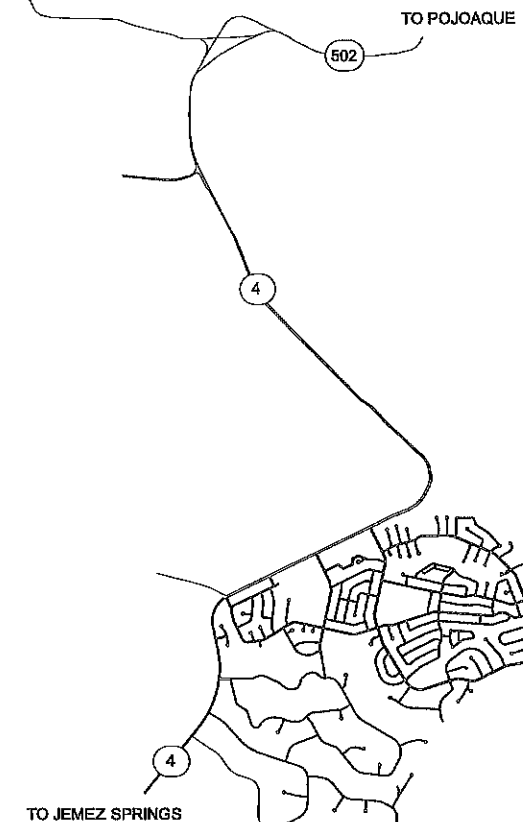
NEW MEXICO REGIONAL MAP
NOT TO SCALE

SHEET INDEX

TITLE SHEET
2 LOS ARBOLES SITE PLAN
3 LOS ARBOLES SITE PLAN ELECTRICAL TRENCHING
4 LOS ARBOLES ELECTRICAL IMPROVEMENTS
5 LOS ARBOLES MECHANICAL IMPROVEMENTS
6 LOS ARBOLES PUMP SPECIFICATIONS
7 NORTH ROAD SITE PLAN
8 NORTH ROAD ELECTRICAL IMPROVEMENTS
9 NORTH ROAD MECHANICAL IMPROVEMENTS
10 NORTH ROAD PUMP SPECIFICATIONS
11 ELECTRICAL TRENCHING STANDARD

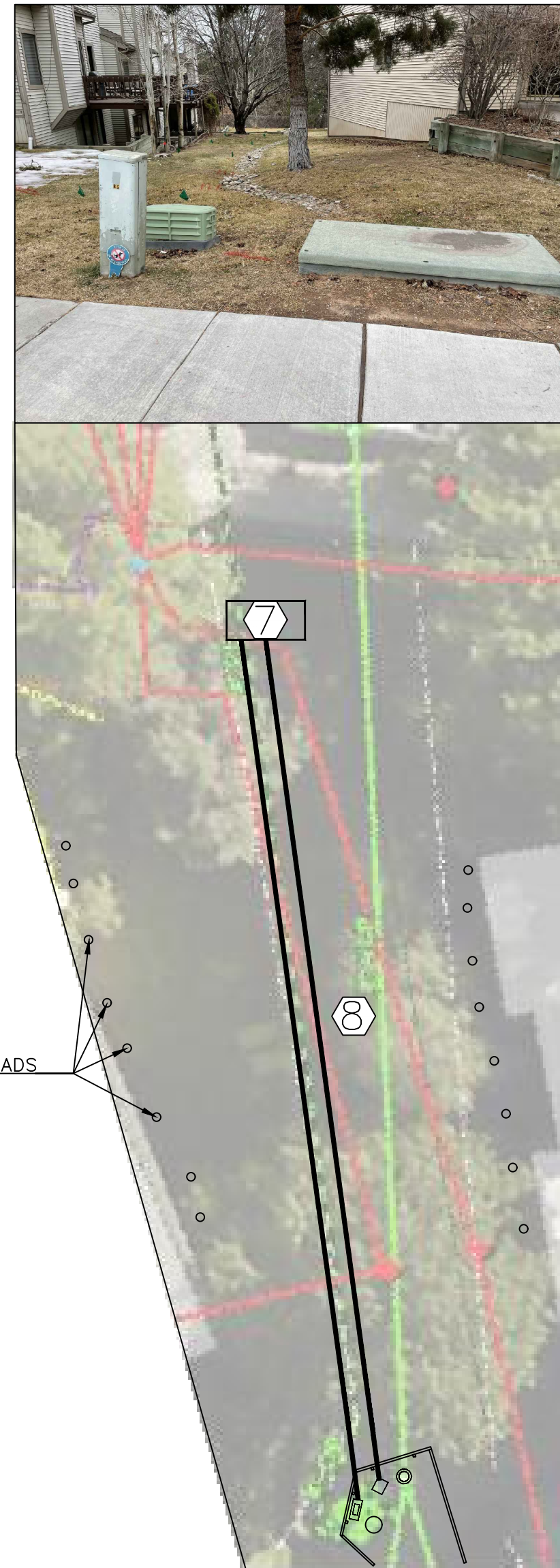
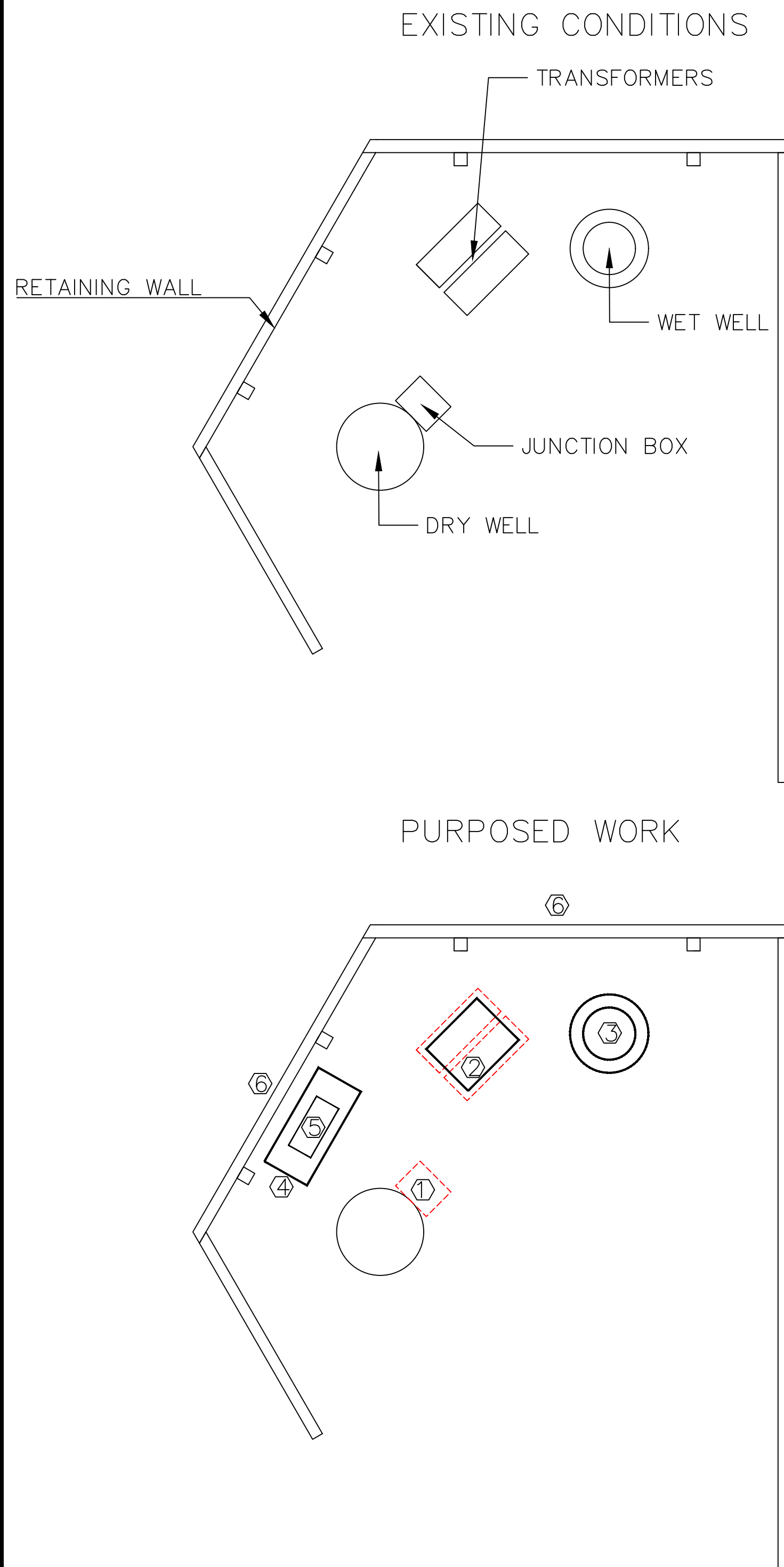
APPROVED BY: _____ DATE _____
DEPARTMENT OF PUBLIC UTILITIES PROJECT ENGINEER

_____ DATE _____
DEPARTMENT OF PUBLIC UTILITIES ENGINEERING ASSOCIATE

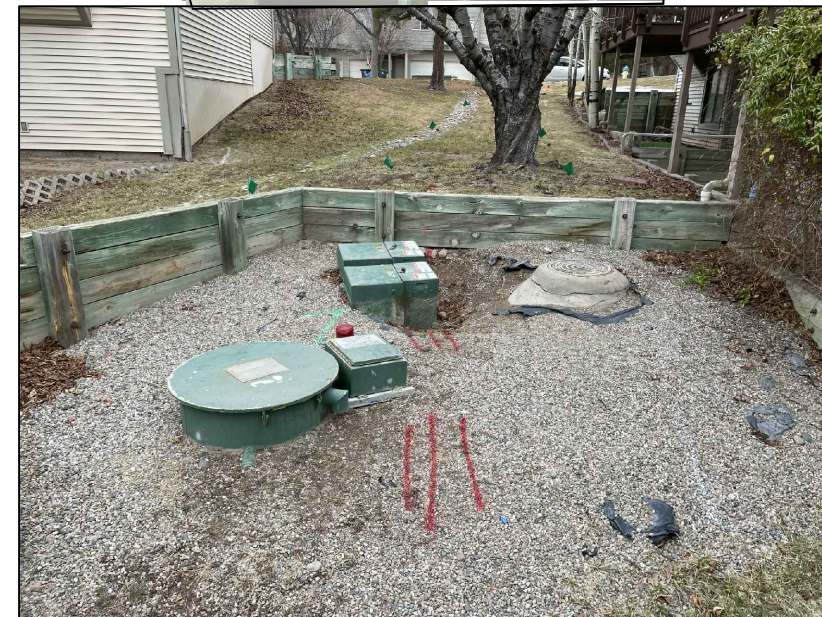


WHITE ROCK VICINITY MAP
NOT TO SCALE

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EXISTING SPRINKLER HEADS



GENERAL NOTES

1. EXISTING SPRINKLER IRRIGATION SYSTEM PIPING LOCATION UNKNOWN, SPRINKLER HEADS NEAR BUILDINGS. COORDINATE WITH HOA TO LOCATE
2. HAND DIGGING REQUIRED AROUND TREE ROOTS
3. RETURN LANDSCAPING TO EXISTING CONDITIONS OR BETTER
4. LAC LINEMEN TO INSTALL TRANSFORMER AND REMOVAL OF EXISTING TRANSFORMER, CONTRACTOR TO COORDINATE WITH LINEMEN FOR ALL ELECTRICAL INSTALLATIONS
5. DURING SEWAGE OUTAGE, CONTRACTOR MUST MANUALLY BY-PASS FORCE MAIN WITH PUMP FROM WET WELL

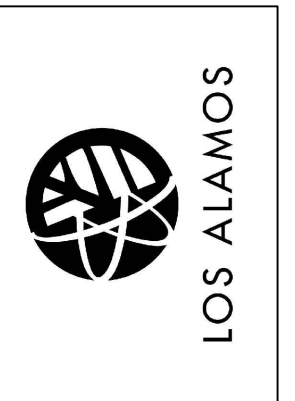
KEYED NOTES

- ① REMOVE EXISTING JUNCTION BOX REFINISH DRY WELL WALL FROM WELDING MARKS
- ② CONTRACTOR TO EXCAVATING EXISTING TRANSFORMER BOXES AND INSTALL NEW FLUSH BOX AS PER STANDARDS IN COORDINATION WITH DPU LINEMEN
- ③ REMOVE EXISTING BROKEN 4' RING AND COVER. REPLACE EXISTING COLLAR AND LID WITH NEW CONCRETE COLLAR AND LID
- ④ INSTALL 5'X2' CONCRETE PAD ROUTE NEW CONDUIT INTO PAD
- ⑤ INSTALL NEW CONTROL PANEL AS DETAILED ON SHEET 4
- ⑥ REMOVE EXISTING TIMBER BEAMS AS NEEDED FOR ACCESS AND REPLACE TO EXISTING CONDITIONS AT COMPLETION OF WORK
- ⑦ INSTALL CONCRETE PAD FOR NEW ELECTRICAL TRANSFORMER AS PER STANDARDS, TRANSFORMER BE INSTALLED BY DPU LINEMAN. REFER TO SHEET 2A FOR DETAILS
- ⑧ INSTALL 2-90FT 4" CONDUITS FROM TRANSFORMER TO NEW CONTROL PANEL AND NEW FLUSH BOX, AND 9FT 4" CONDUIT FROM EXISTING JBOX TO NEW TRANSFORMER. OWNER TO PROVIDE WIRING. DPU LINEMEN TO PULL THE CABLES ON PRIMARIES AND CONTRACTOR TO SECONDARIES. REFER TO SHEET 2A FOR DETAILS

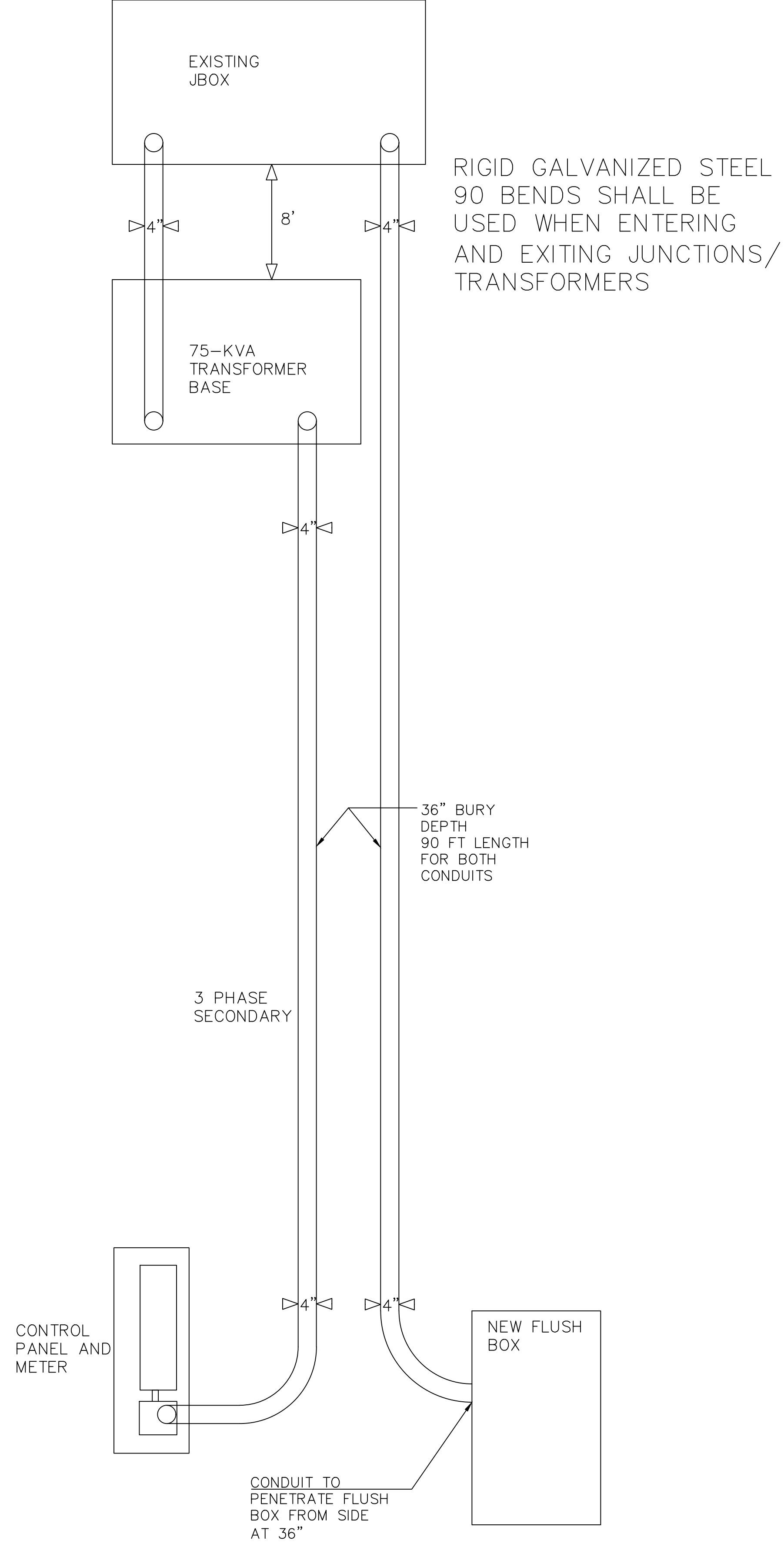
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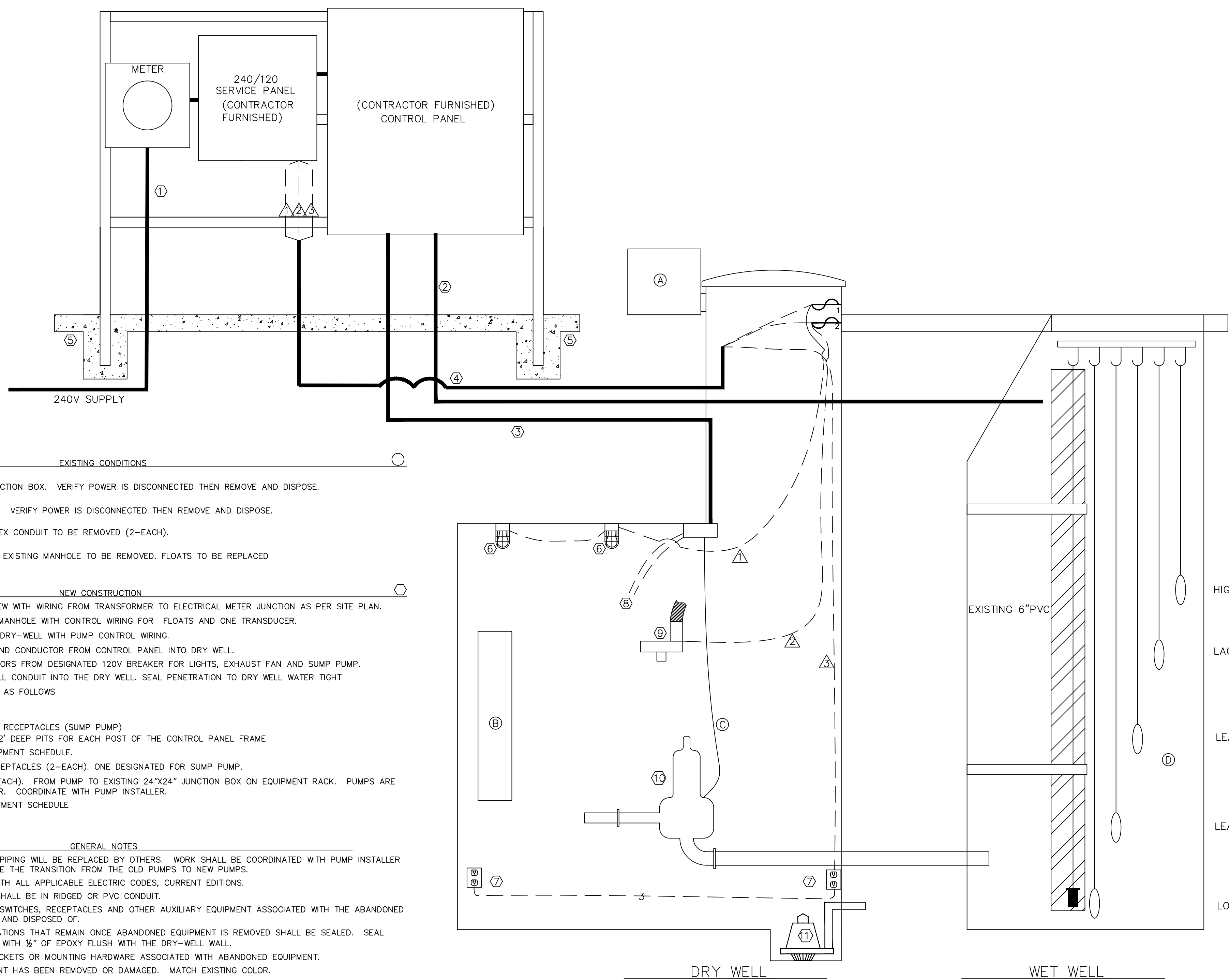
LOS ARBOLES
LIFT STATION IMPROVEMENTS
SITE PLAN



INCORPORATED COUNTY
OF LOS ALAMOS
DEPARTMENT OF PUBLIC
UTILITIES
1000 CENTRAL AVE., SUITE 130
LOS ALAMOS, NEW MEXICO 87544
(505) 662-8333 FAX: (505) 662-8005



EXISTING ELECTRICAL/CONTROLS



EQUIPMENT SCHEDULE			
ITEM	MAKE	MODEL	GRAINGER CATALOG #
SUMP PUMP	GOULDS	110VAC/35 GPM @ 10'TDH	462D15
LED LIGHT FIXTURE	LITHONIA LIGHTING	OLVTCM	26X701
EXHAUST FAN	FANTECH	FG 4XL	15W687
FLEXIBLE DUCT	WESTAFLEX	2505 (15 FEET)	3C591

- EXISTING CONDITIONS
- Ⓐ EXISTING ABANDONED 240V STEEL JUNCTION BOX. VERIFY POWER IS DISCONNECTED THEN REMOVE AND DISPOSE.
- Ⓑ EXISTING ABANDONED CONTROL PANEL. VERIFY POWER IS DISCONNECTED THEN REMOVE AND DISPOSE.
- Ⓒ EXISTING PUMP CONTROL WIRING IN FLEX CONDUIT TO BE REMOVED (2-EACH).
- Ⓓ EXISTING FLOATS AND TRANSDUCER IN EXISTING MANHOLE TO BE REMOVED. FLOATS TO BE REPLACED
- ⬡ NEW CONSTRUCTION
- ① INSTALL NEW 4" PVC CONDUIT FROM NEW WITH WIRING FROM TRANSFORMER TO ELECTRICAL METER JUNCTION AS PER SITE PLAN.
- ② INSTALL NEW 1-1/2" PVC CONDUIT TO MANHOLE WITH CONTROL WIRING FOR FLOATS AND ONE TRANSDUCER.
- ③ INSTALL NEW 1-1/2" PVC CONDUIT TO DRY-WELL WITH PUMP CONTROL WIRING.
- ④ INSTALL NEW 1-1/2" RIGID CONDUIT AND CONDUCTOR FROM CONTROL PANEL INTO DRY WELL.
- a. INSTALL THREE INDIVIDUAL CONDUCTORS FROM DESIGNATED 120V BREAKER FOR LIGHTS, EXHAUST FAN AND SUMP PUMP.
- b. DRILL WALL OF DRY WELL TO INSTALL CONDUIT INTO THE DRY WELL. SEAL PENETRATION TO DRY WELL WATER TIGHT
- c. NEW BREAKERS/CIRCUITS IDENTIFIED AS FOLLOWS
- c.a. CIRCUIT Ⓐ - LIGHTS
- c.b. CIRCUIT Ⓑ - EXHAUST FANS
- c.c. CIRCUIT Ⓒ - GENERAL PURPOSE RECEPTACLES (SUMP PUMP)
- ⑤ INSTALL 5'X2'6" CONCRETE PAD WITH 2' DEEP PITS FOR EACH POST OF THE CONTROL PANEL FRAME
- ⑥ INSTALL NEW LIGHT FIXTURE PER EQUIPMENT SCHEDULE.
- ⑦ INSTALL NEW WALL MOUNTED GFCI RECEPTACLES (2-EACH). ONE DESIGNATED FOR SUMP PUMP.
- ⑧ INSTALL NEW PUMP CONDUCTORS (2-EACH). FROM PUMP TO EXISTING 24"X24" JUNCTION BOX ON EQUIPMENT RACK. PUMPS ARE EQUIPPED WITH PRE-WIRED CONDUCTOR. COORDINATE WITH PUMP INSTALLER.
- ⑨ INSTALL NEW EXHAUST FAN PER EQUIPMENT SCHEDULE
- ⑩ NEW PUMPS BY OTHERS (2-EACH)
- ⑪ NEW SUMP PUMP

- GENERAL NOTES
- NEW PUMPS, VALVES AND DISCHARGE PIPING WILL BE REPLACED BY OTHERS. WORK SHALL BE COORDINATED WITH PUMP INSTALLER AND LOS ALAMOS COUNTY TO EXPEDITE THE TRANSITION FROM THE OLD PUMPS TO NEW PUMPS.
 - ALL ELECTRIC WORK SHALL COMPLY WITH ALL APPLICABLE ELECTRIC CODES, CURRENT EDITIONS.
 - ALL NEW CONDUCTORS IN DRY-WELL SHALL BE IN RIDGED OR PVC CONDUIT.
 - ABANDONED CONTROL PANEL, WIRING, SWITCHES, RECEPTACLES AND OTHER AUXILIARY EQUIPMENT ASSOCIATED WITH THE ABANDONED ELECTRIC SYSTEM SHALL BE REMOVED AND DISPOSED OF.
 - ANY CONDUITS OR DRY-WELL PENETRATIONS THAT REMAIN ONCE ABANDONED EQUIPMENT IS REMOVED SHALL BE SEALED. SEAL PENETRATIONS WITH SILICON AND CAP WITH 1/2" OF EPOXY FLUSH WITH THE DRY-WELL WALL.
 - CUT AND GRIND SMOOTH UNUSED BRACKETS OR MOUNTING HARDWARE ASSOCIATED WITH ABANDONED EQUIPMENT.
 - PAINT ANY SURFACES WHERE THE PAINT HAS BEEN REMOVED OR DAMAGED. MATCH EXISTING COLOR.

HIGH ALARM

LAG-ON

LEAD-ON

LEAD-OFF/LAG OFF

LOW ALARM

— EXISTING CONDUIT

- - - NEW CIRCUIT

— EXISTING CONDUCTORS

LEGEND

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APPROVED BY: _____

DATE: _____

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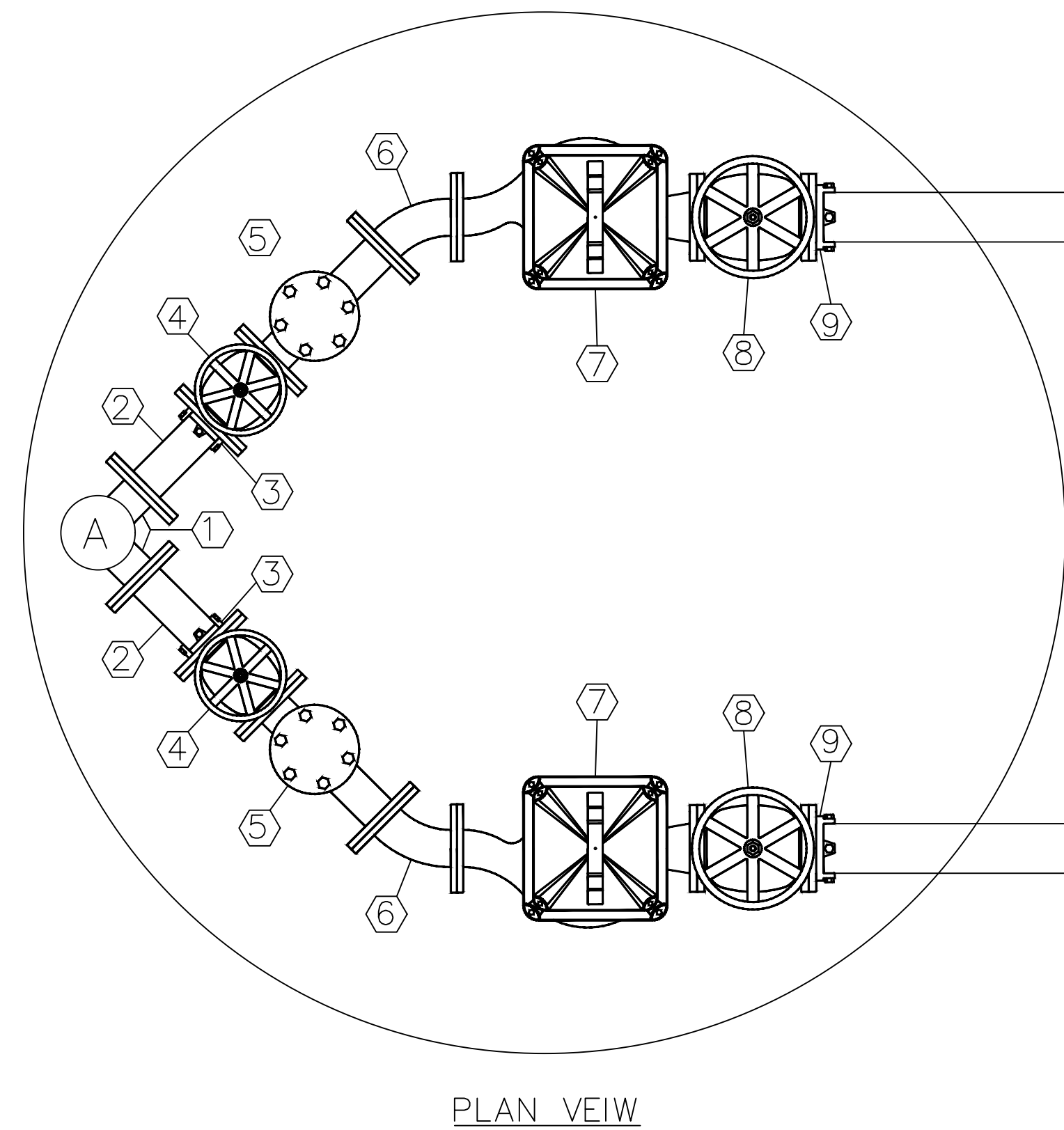
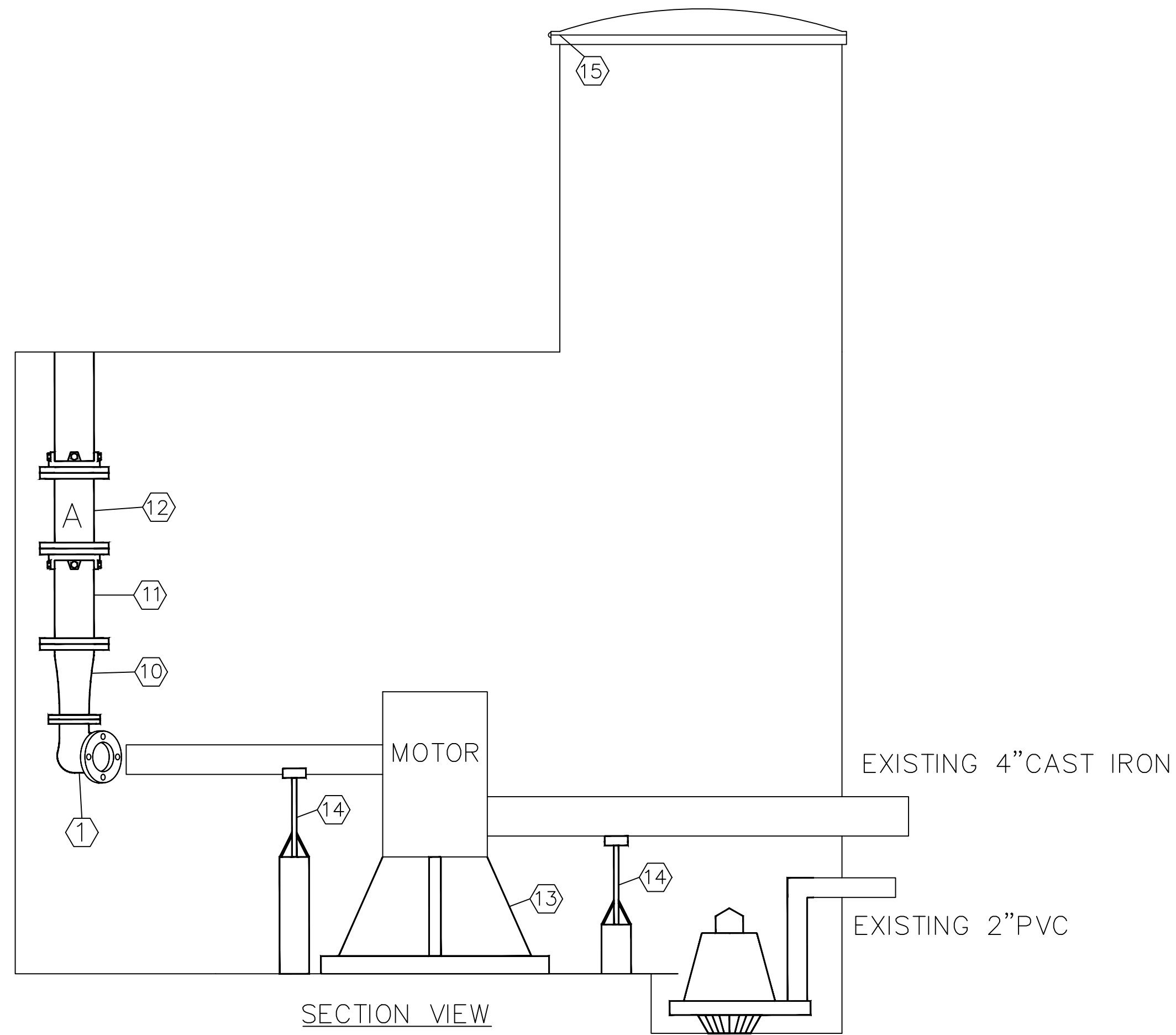
LOS ARBOLES
LIFT STATION IMPROVEMENTS
ELECTRICAL IMPROVEMENTS



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SHEET
4

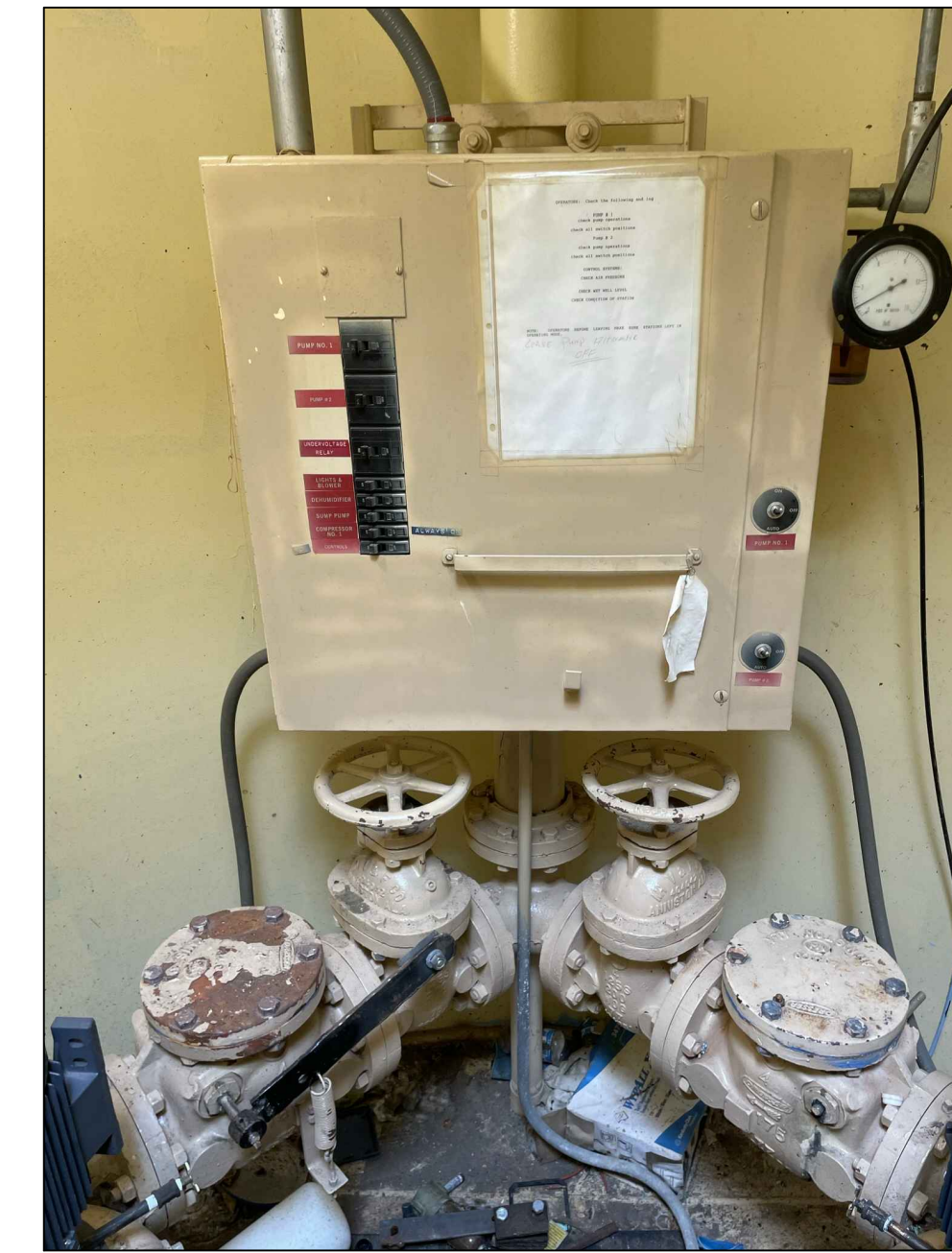
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PLAN VIEW



TOP VIEW



DISCHARGE PIPE

- KEYED NOTES
1. 3" FL SIDE OUTLET 90° BEND(OWNER FURNISHED)
 2. 3" FL x PE DIP SPOOL
 3. 3" MEGA FLANGE(OWNER FURNISHED)
 4. 3" FL x FL PLUG VALVE(OWNER FURNISHED)
 5. 3" FL x FL CHECK VALVE(OWNER FURNISHED)
 6. 3" FL x FL 45° BEND
 7. NEW PUMP(OWNER FURNISHED)
 8. 4" FL x FL PLUG VALVE(OWNER FURNISHED)
 9. 4" MEGA FLANGE(OWNER FURNISHED)
 10. 4" x 3" FL x FL REDUCER
 11. 4" FL x PE DIP SPOOL
 12. 4" MJ SOLID SLEEVE W/MEGALUGS
 13. PUMP STAND/ ADJUSTABLE HEIGHT/ WELDED TO FLOOR
 14. PIPE SUPPORT
 15. REWELD EXISTING LID HINGE TO USABLE STATE

- GENERAL NOTES
1. ALL FLANGES ANSI 125 OR ANSI 150
 2. ALL FITTINGS AWWA C110 DUCTILE IRON
 3. ALL PIPE AND FITTINGS SHALL BE FIELD COATED
 4. LIFT STATION INTERIOR SHALL BE THOROUGHLY CLEANED AND FLOOR PRESSURE WASHED.
 5. FLOOR SHALL BE REPAINTED WITH NON-SKID EPOXY PAINT: PRIMER AND TWO COATS OF EPOXY PAINT. MATCH EXISTING COLOR
 6. ALL PENETRATIONS WHICH REMAIN UNUSED SHALL BE CUT AND PLUGGED NEATLY FLUSH WITH THE DRY WELL WALL. PLUG CONDUITS/PIPES WITH SILICON AND PLACE A 0.5 IN THICK HARD SET EPOXY CAP FLUSH WITH WALL
 7. ALL AREAS WHERE COATING IS REMOVED OR SCUFFED AS A PART OF THE DEMOLITION SHALL BE REPAINTED. MATCH EXISTING COLOR
 8. REMOVE AND DISPOSE OF ALL PIPING, FITTINGS, PUMPS, VALVES, CONTROL PANEL AND ELECTRICAL CONDUIT/WIRE BEING REPLACED
 9. CONTRACTOR SHALL COORDINATE INSTALLATION OF NEW PUMPS WITH DPU GWS OPERATIONS, WHO WILL SUPPORT WITH VACTOR WHILE PUMPS ARE DISABLED

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LOS ARBOLES
LIFT STATION IMPROVEMENTS
MECHANICAL IMPROVEMENTS




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LOS ALAMOS, NEW MEXICO 87544
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Concertor N80-2750

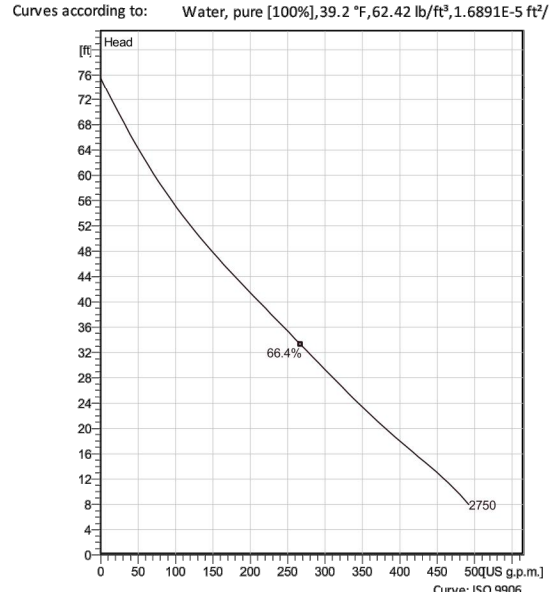
The most intelligent wastewater pump on the market. Suitable for customers operating traditional on/off pump stations who want to benefit from re-settable pump performance, clog detection and pump cleaning, soft start, constant power and motor protection.



Technical specification



Curves according to: Water, pure [100%], 39.2 °F, 62.42 lb/ft³, 1.6891E-5 ft/s



Normal (green) data shown. Under and over performance from this data should be avoided due to standard manufacturing tolerances. Please consult your local Flygt representative for performance guarantees.

Configuration

Motor number N6020.181.18-08-1A2-D 5.5hp	Installation type T-Vertical Permanent, Dry
Impeller diameter 170 mm	Discharge diameter 3 inch

Pump information

Impeller diameter 170 mm	Impeller Hard-iron™
Discharge diameter 3 inch	
Inlet diameter 110 mm	
Maximum operating speed 800-2600 rpm	
Number of blades 2	


Max. fluid temperature
40 °C

Project	Xyloci-20957451	Created by	
Block		Created on	8/4/2023
		Last update	8/4/2023

Program version: 602 - 6100003 (2018.02) | Date revision: 1000003 (2018.04.07) | User group(s): Admin (ENL, DOT)

Concertor N80-2750

Technical specification



Motor - General

Motor number N6020.181.18-08-1A2-D 5.5hp	Phases 3~	Rated speed 800-2600 rpm	Rated power 5.5 hp
ATX approved No	Insulation class H	Rated current 12.1 A	Type of Duty S1
Frequency 60 Hz	Rated voltage 230 V	Motor efficiency class IE4 according to IEC/TS 60034-30-2 Ed. 1	

Motor - Technical

Power factor - 1/2 Load 0.95	Motor efficiency - 1/2 Load 88.0 %	Nominal speed - 1/2 Load 1150 rpm
Power factor - 3/4 Load 0.95	Motor efficiency - 3/4 Load 89.0 %	Nominal speed - 3/4 Load 1035 rpm
Power factor - 1/2 Load 0.95	Motor efficiency - 1/2 Load 89.0 %	Nominal speed - 1/2 Load 920 rpm

Starting current
12.1 A

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Block		Created on	8/4/2023
		Last update	8/4/2023

Program version: 602 - 6100003 (2018.02) | Date revision: 1000003 (2018.04.07) | User group(s): Admin (ENL, DOT)

Concertor N80-2750

Monitoring and Control equipment




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		Last update	8/4/2023

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Concertor N80-2750

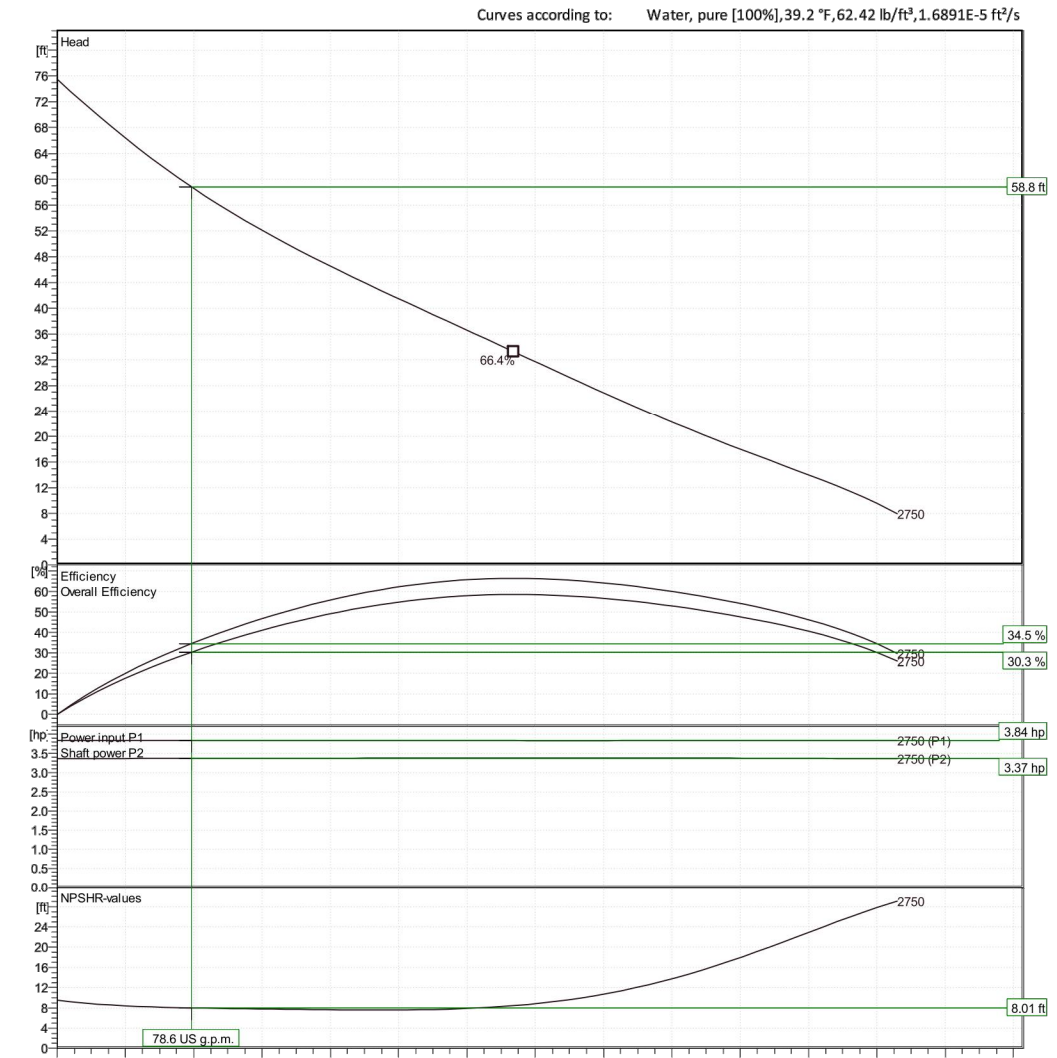
Performance curve



Duty point

Flow	78.6 US g.p.m.	Head	58.8 ft
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Curves according to: Water, pure [100%], 39.2 °F, 62.42 lb/ft³, 1.6891E-5 ft/s




Normal (green) data shown. Under and over performance from this data should be avoided due to standard manufacturing tolerances. Please consult your local Flygt representative for performance guarantees.

Project	Xyloci-20957451	Created by	
Block		Created on	8/4/2023
		Last update	8/4/2023

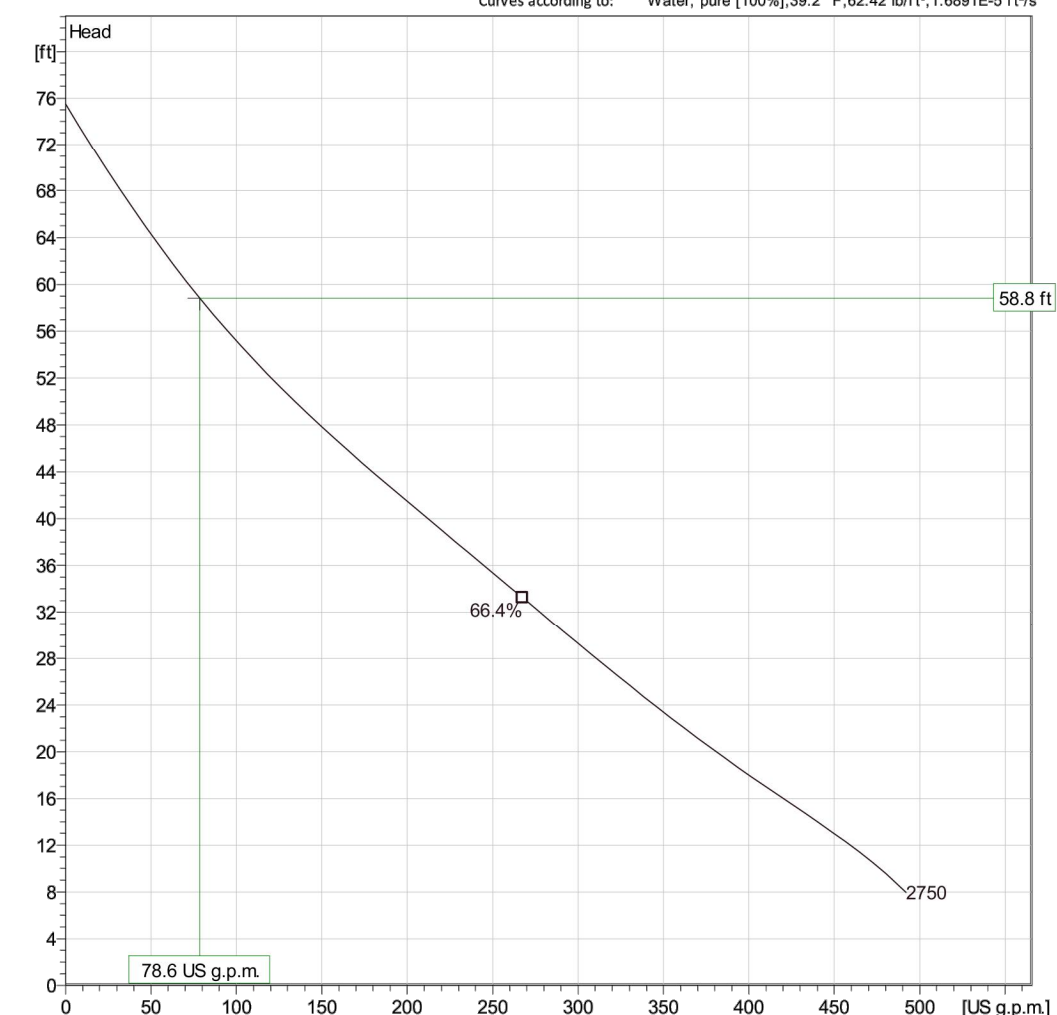
Program version: 602 - 6100003 (2018.02) | Date revision: 1000003 (2018.04.07) | User group(s): Admin (ENL, DOT)

Concertor N80-2750

Duty Analysis



Curves according to: Water, pure [100%], 39.2 °F, 62.42 lb/ft³, 1.6891E-5 ft/s



Normal (green) data shown. Under and over performance from this data should be avoided due to standard manufacturing tolerances. Please consult your local Flygt representative for performance guarantees.

Operating characteristics


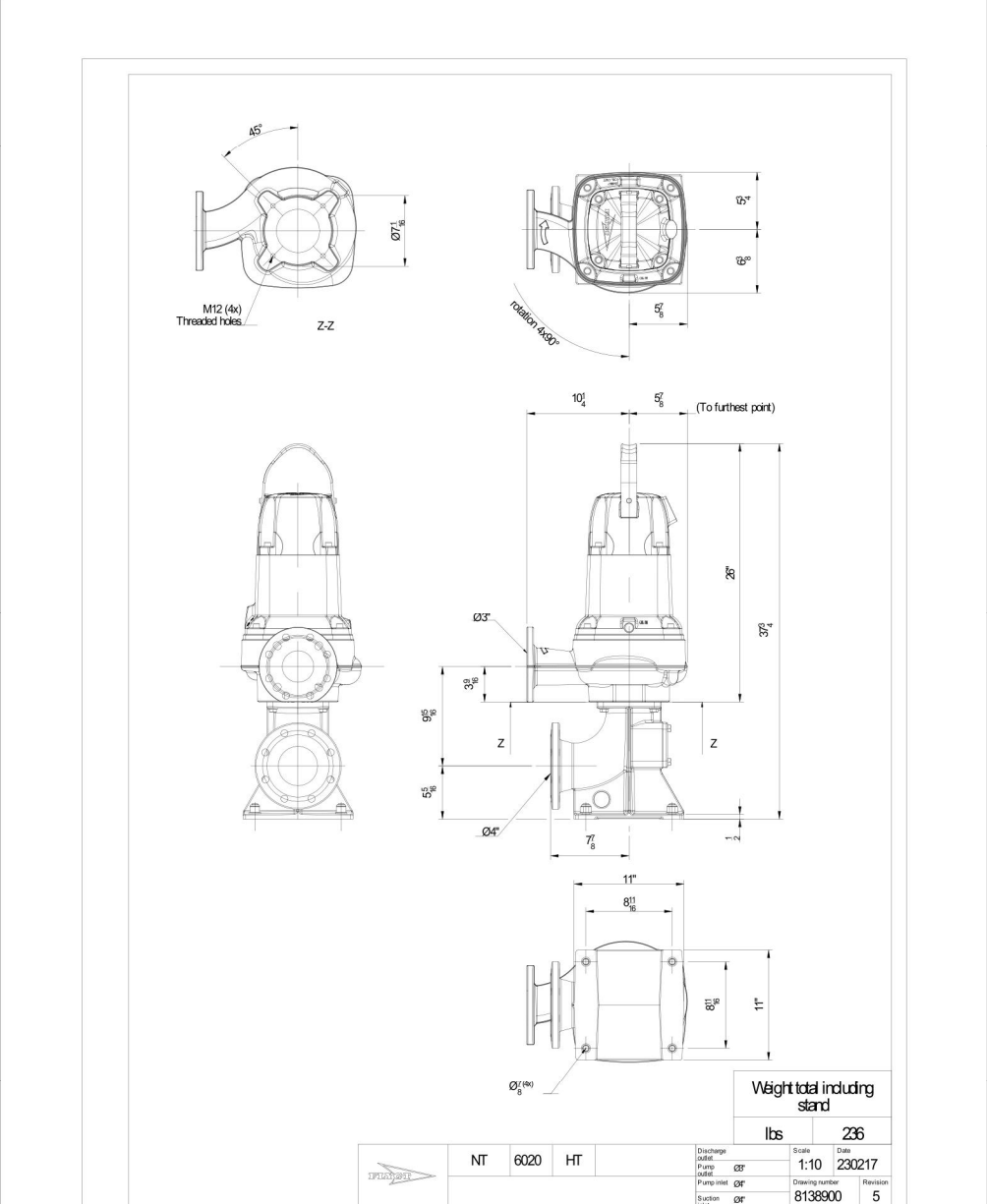
Power Systems	Flow US g.p.m.	Head ft	Shaft power hp	Flow US g.p.m.	Head ft	Shaft power hp	Hyd. eff.	Specific energy kWh/US MG	NPSHR ft
	78.6 US g.p.m.	58.8 ft	66.4%						

Project	Xyloci-20957451	Created by	
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		Last update	8/4/2023

Program version: 602 - 6100003 (2018.02) | Date revision: 1000003 (2018.04.07) | User group(s): Admin (ENL, DOT)

Concertor N80-2750

Dimensional drawing

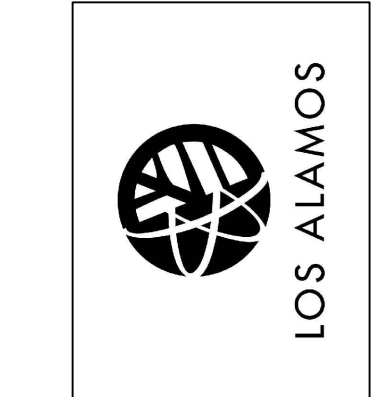
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		Last update	8/4/2023

Program version: 602 - 6100003 (2018.02) | Date revision: 1000003 (2018.04.07) | User group(s): Admin (ENL, DOT)

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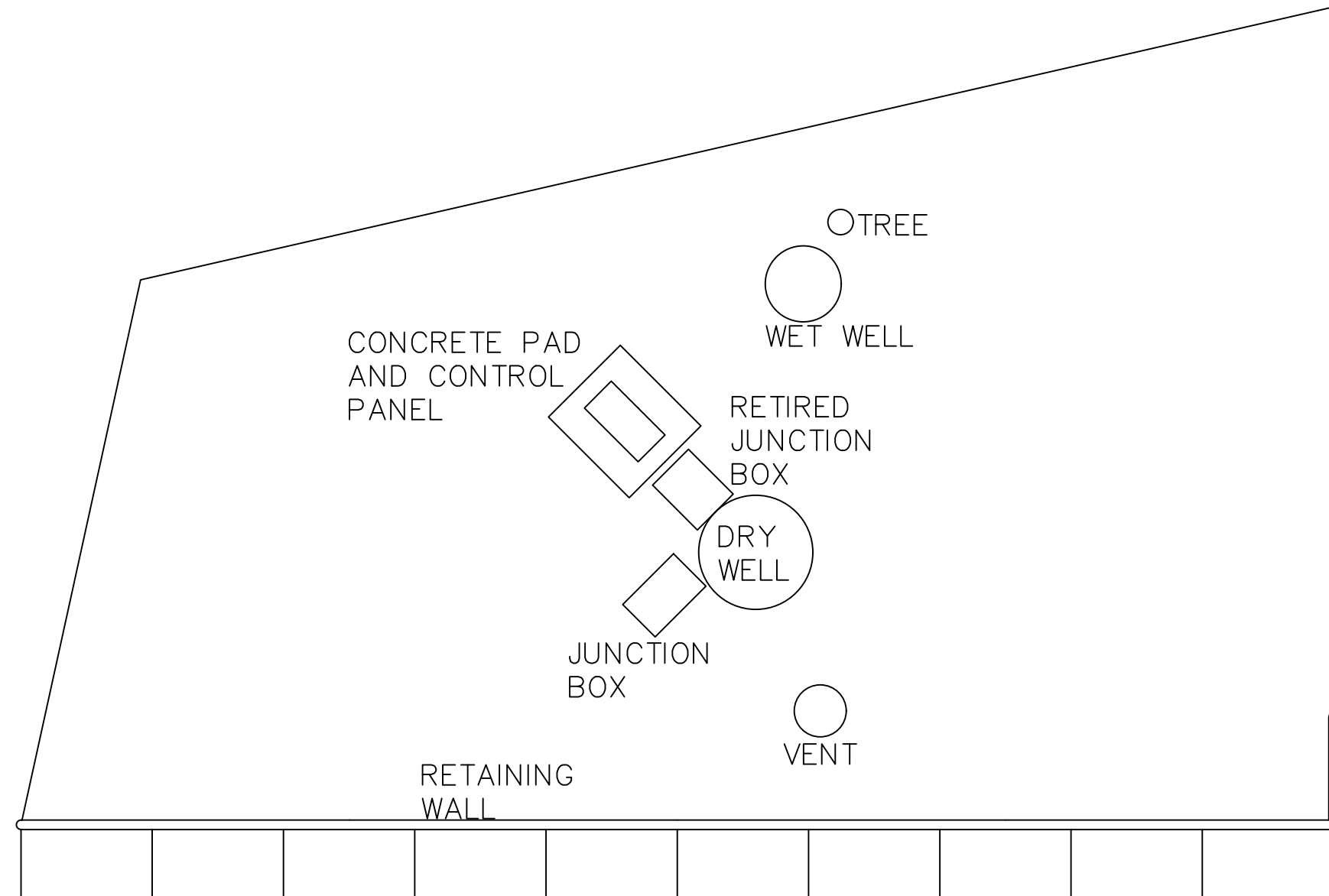
LOS ARBOLES
LIFT STATION IMPROVEMENTS
PUMP SPECIFICATIONS



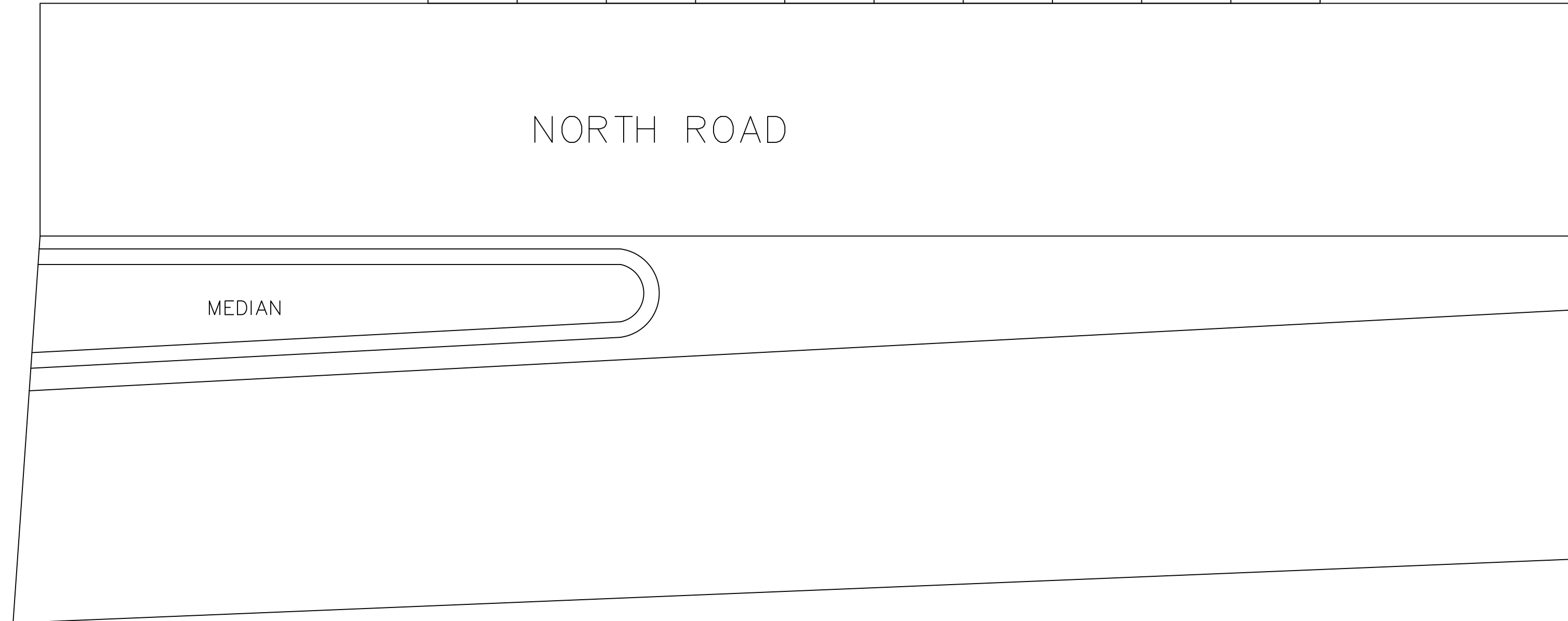
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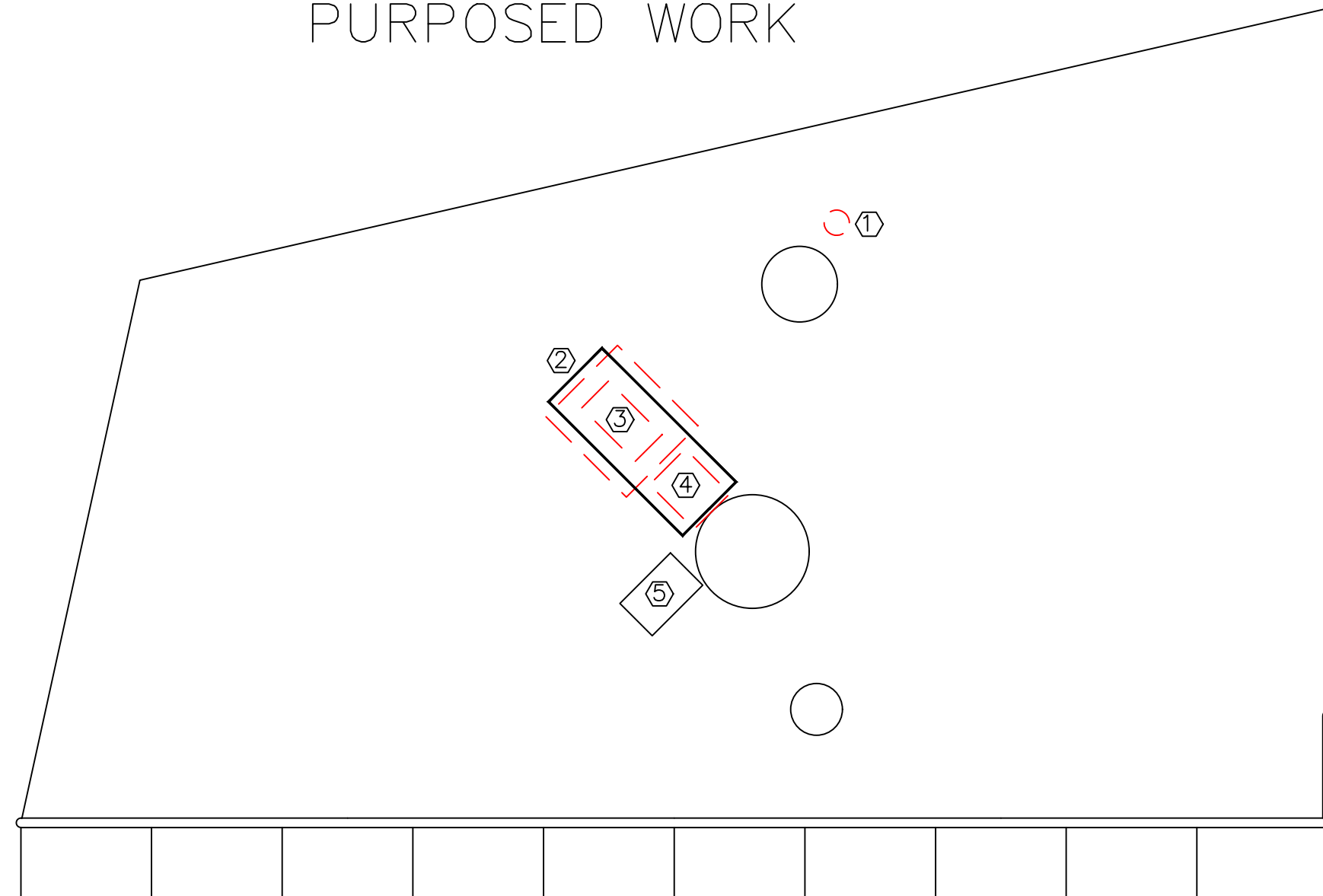
EXISTING CONDITIONS



NORTH ROAD



PURPOSED WORK



GENERAL NOTES

1. RETURN LANDSCAPING TO EXISTING CONDITIONS OR BETTER
2. LAC LINEMEN TO INSTALL TRANSFORMER AND REMOVAL OF EXISTING TRANSFORMER, CONTRACTOR TO COORDINATE WITH LINEMEN FOR ALL ELECTRICAL INSTALLATIONS
3. DURING SEWAGE OUTAGE, CONTRACTOR MUST MANUALLY BY-PASS FORCE MAIN WITH PUMP FROM WET WELL

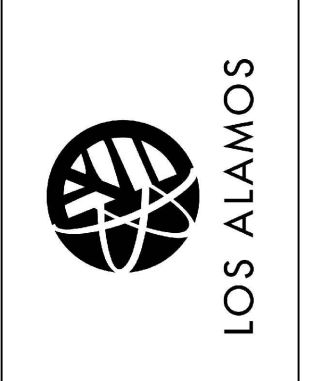
KEYED NOTES

- ① REMOVE EXISTING TREE FROM THE ROOTS HYDRO EXCAVATION OR HAND DIGGING IS REQUIRED.
- ② INSTALL 5'X2' CONCRETE PAD WITH CONTROL PANEL AS PER SHEET 3, ROUTE NEW CONDUIT INTO PAD
- ③ REMOVE EXISTING CONCRETE PAD AND CONTROL PANEL
- ④ REMOVE EXISTING DEFUNCT JUNCTION BOX; REFINISH DRY WELL WALL FROM WELDING MARKS
- ⑤ RUN NEW POWER LINE TO EXIST LIVE JUNCTION BOX

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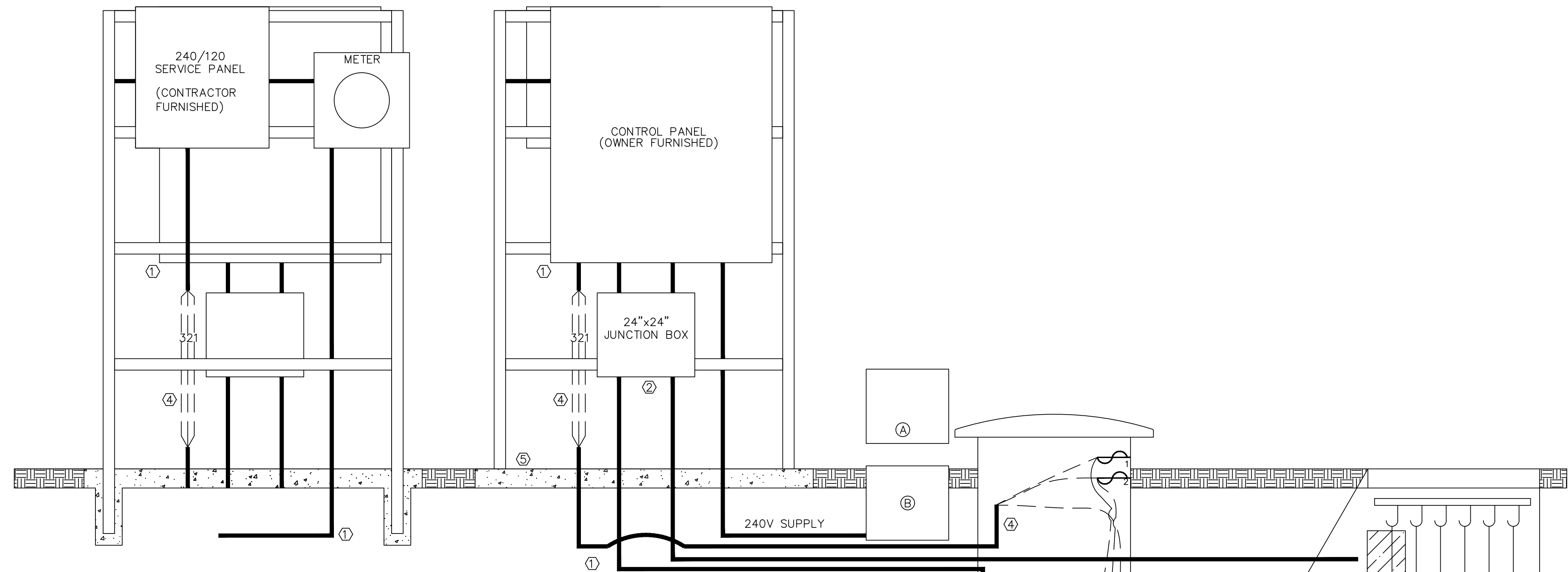
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LOS ARBOLES
LIFT STATION IMPROVEMENTS
SITE PLAN



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EXISTING ELECTRICAL/CONTROLS



EXISTING CONDITIONS

- (A) EXISTING ABANDONED 240V STEEL JUNCTION BOX. VERIFY POWER IS DISCONNECTED THEN REMOVE AND DISPOSE.
- (B) EXISTING POWER JUNCTION BOX WHERE TO BE USED FOR POWER SUPPLY.
- (C) EXISTING ABANDONED CONTROL PANEL. VERIFY POWER IS DISCONNECTED THEN REMOVE AND DISPOSE.
- (D) EXISTING PUMP CONTROL WIRING IN FLEX CONDUIT TO BE REMOVED (2--EACH).
- (E) EXISTING FLOATS AND TRANSDUCER IN EXISTING MANHOLE TO BE REMOVED. FLOATS TO BE REPLACED.

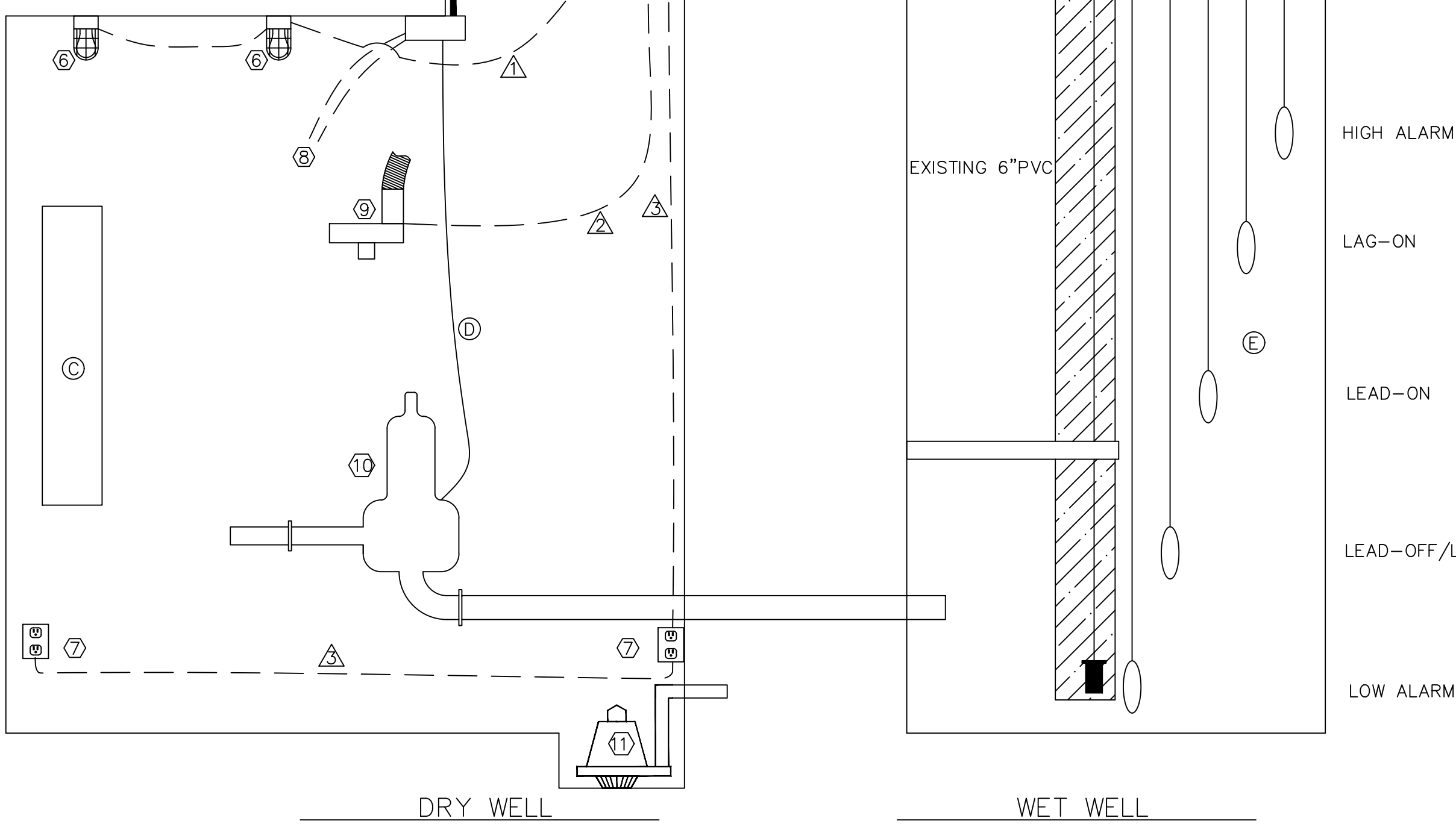
NEW CONSTRUCTION

- (1) INSTALL NEW 4" PVC CONDUIT FROM EXIST JUNCTION BOX TO ELECTRICAL METER JUNCTION AS PER SITE PLAN.
- (2) INSTALL NEW 1-1/2" PVC CONDUIT TO MANHOLE WITH CONTROL WIRING FOR FLOATS AND ONE TRANSDUCER.
- (3) INSTALL NEW 1-1/2" PVC CONDUIT TO DRY-WELL WITH PUMP CONTROL WIRING.
- (4) INSTALL NEW 1-1/2" RIGID CONDUIT AND CONDUCTOR FROM CONTROL PANEL INTO DRY WELL.
 - a. INSTALL THREE INDIVIDUAL CONDUCTORS FROM DESIGNATED 120V BREAKER FOR LIGHTS, EXHAUST FAN AND SUMP PUMP.
 - b. DRILL WALL OF DRY WELL TO INSTALL CONDUIT INTO THE DRY WELL. SEAL PENETRATION TO DRY WELL WATER TIGHT
 - c. NEW BREAKERS/CIRCUITS IDENTIFIED AS FOLLOWS
 - c.a. CIRCUIT Δ - LIGHTS
 - c.b. CIRCUIT Δ - EXHAUST FANS
 - c.c. CIRCUIT Δ - GENERAL PURPOSE GFCI RECEPTACLES (SUMP PUMP).
- (5) INSTALL 5'x2'6" CONCRETE PAD WITH 2" DEEP PITS FOR EACH POST OF THE CONTROL PANEL FRAME
- (6) INSTALL NEW LIGHT FIXTURE PER EQUIPMENT SCHEDULE.
- (7) INSTALL NEW WALL MOUNTED GFCI RECEPTACLES (2--EACH). ONE DESIGNATED FOR SUMP PUMP
- (8) INSTALL NEW PUMP CONDUCTORS (2--EACH). FROM PUMP TO EXISTING 24"x24" JUNCTION BOX ON EQUIPMENT RACK. PUMPS ARE EQUIPPED WITH PRE-WIRED CONDUCTOR. COORDINATE WITH PUMP INSTALLER.
- (9) INSTALL NEW EXHAUST FAN PER EQUIPMENT SCHEDULE
- (10) NEW PUMPS BY OTHERS (2--EACH)
- (11) NEW SUMP PUMP

GENERAL NOTES

1. NEW PUMPS, VALVES AND DISCHARGE PIPING WILL BE REPLACED BY OTHERS. WORK SHALL BE COORDINATED WITH PUMP INSTALLER AND LOS ALAMOS COUNTY TO EXPEDITE THE TRANSITION FROM THE OLD PUMPS TO NEW PUMPS.
2. ALL ELECTRIC WORK SHALL COMPLY WITH ALL APPLICABLE ELECTRIC CODES, CURRENT EDITIONS.
3. ALL NEW CONDUCTORS IN DRY-WELL SHALL BE IN RIDGED OR PVC CONDUIT.
4. ABANDONED CONTROL PANEL, WIRING, SWITCHES, RECEPTACLES AND OTHER AUXILIARY EQUIPMENT ASSOCIATED WITH THE ABANDONED ELECTRIC SYSTEM SHALL BE REMOVED AND DISPOSED OF.
5. ANY CONDUITS OR DRY-WELL PENETRATIONS THAT REMAIN ONCE ABANDONED EQUIPMENT IS REMOVED SHALL BE SEALED. SEAL PENETRATIONS WITH SILICON AND CAP WITH 1/2" OF EPOXY FLUSH WITH THE DRY-WELL WALL.
6. CUT AND GRIND SMOOTH UNUSED BRACKETS OR MOUNTING HARDWARE ASSOCIATED WITH ABANDONED EQUIPMENT.
7. PAINT ANY SURFACES WHERE THE PAINT HAS BEEN REMOVED OR DAMAGED. MATCH EXISTING COLOR.

EQUIPMENT SCHEDULE			
ITEM	MAKE	MODEL	GRAINGER CATALOG #
SUMP PUMP	GOULDS	110VAC/35 GPM @ 10'TD	462D15
LED LIGHT FIXTURE	LITHONIA LIGHTING	OLVTCM	26X701
EXHAUST FAN	FANTECH	FG 4XL	15W687
FLEXIBLE DUCT	WESTAFLEX	2505 (15 FEET)	3C591



- HIGH ALARM
- LAG-ON
- LEAD-ON
- LEAD-OFF/LAG OFF
- LOW ALARM

- EXISTING CONDUIT
- - - NEW CIRCUIT
- EXISTING CONDUCTORS

LEGEND

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 APPROVED BY: _____
 DATE: _____
 SCALE: _____

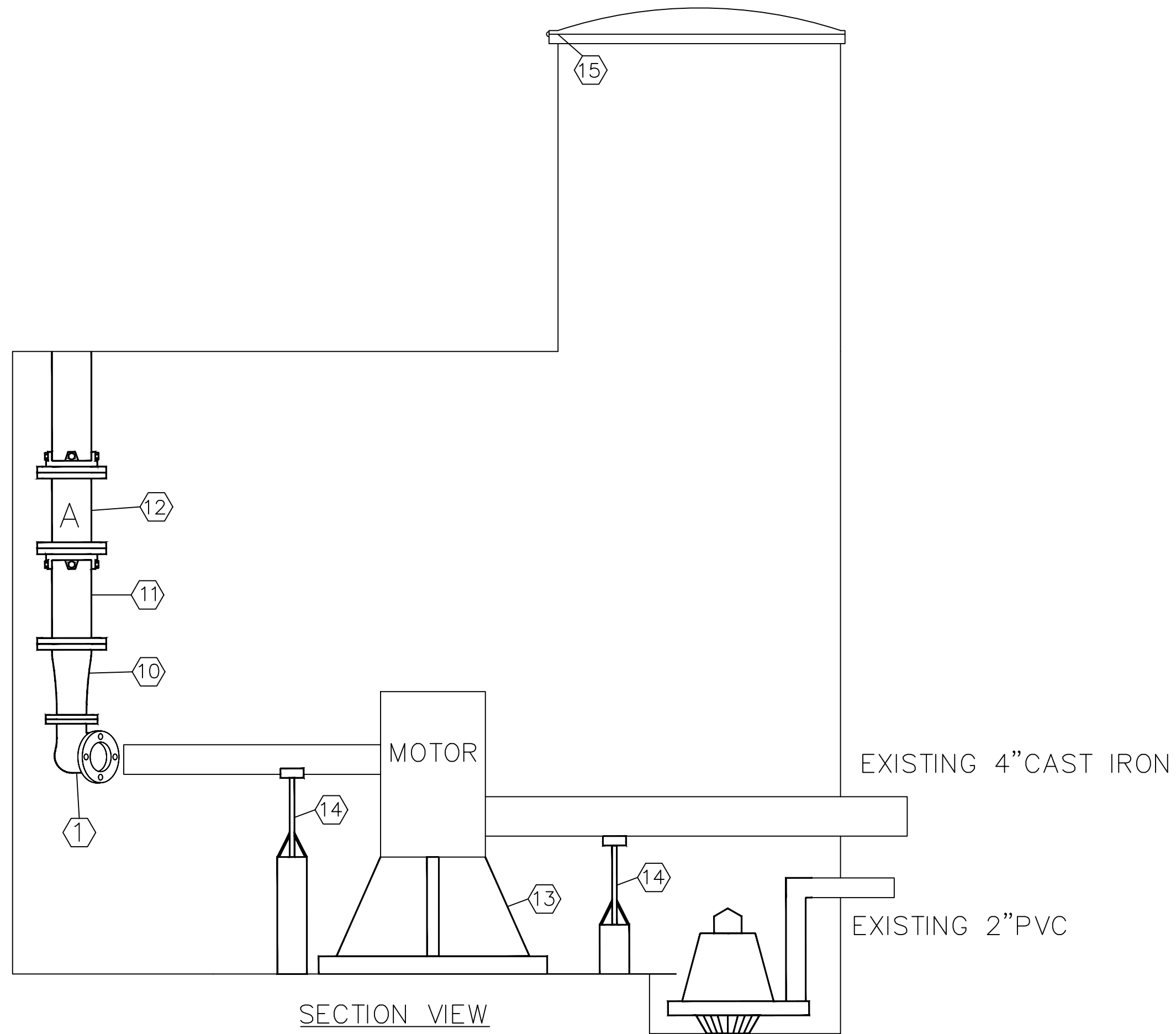
LOS ARBOLES
LIFT STATION IMPROVEMENTS
ELECTRICAL IMPROVEMENTS



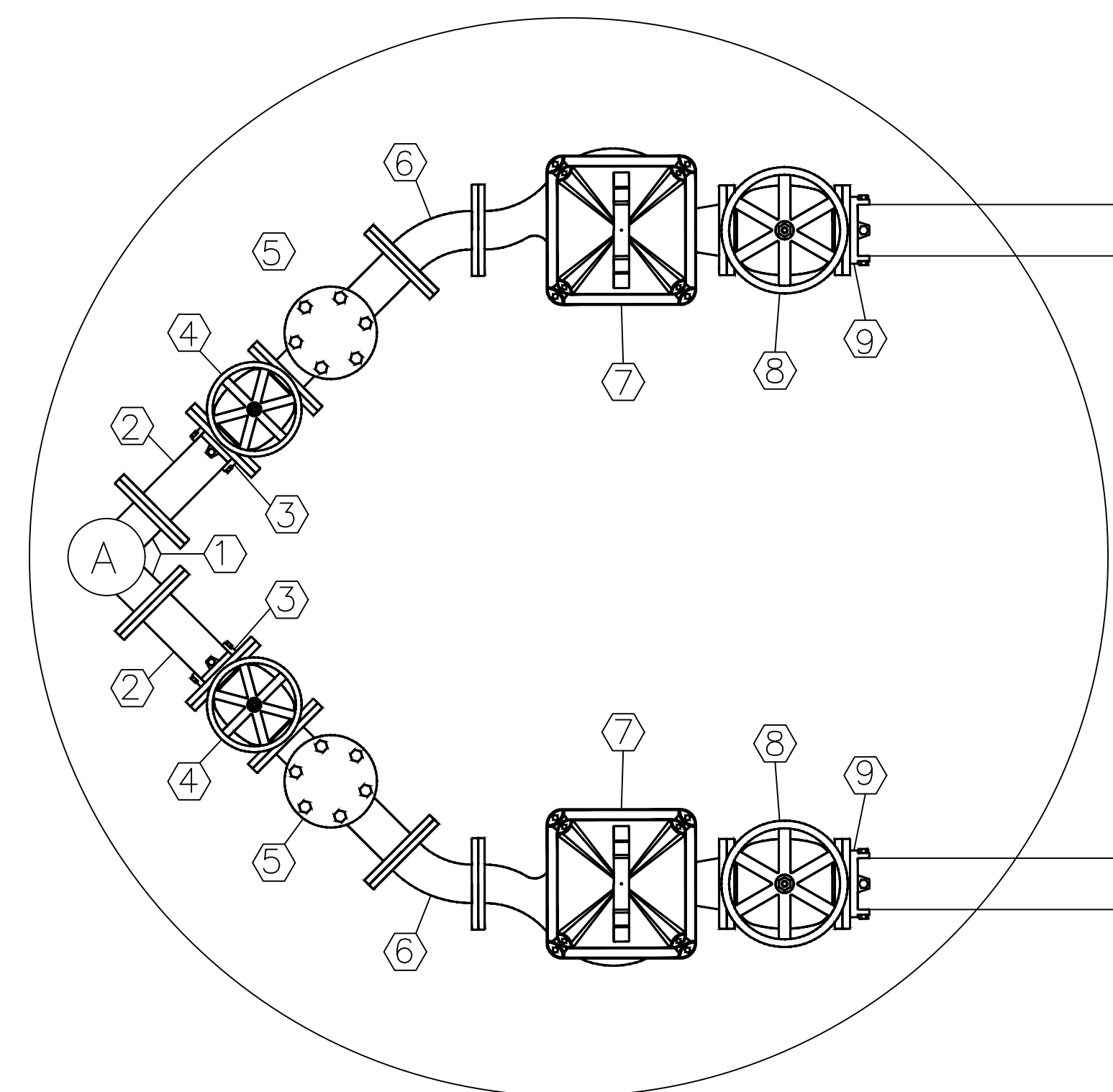
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 OF LOS ALAMOS
 DEPARTMENT OF PUBLIC
 UTILITIES
 1000 CENTRAL AVE., SUITE 130
 LOS ALAMOS, NEW MEXICO 87544
 (505) 662-8333 FAX: (505) 662-8005

SHEET
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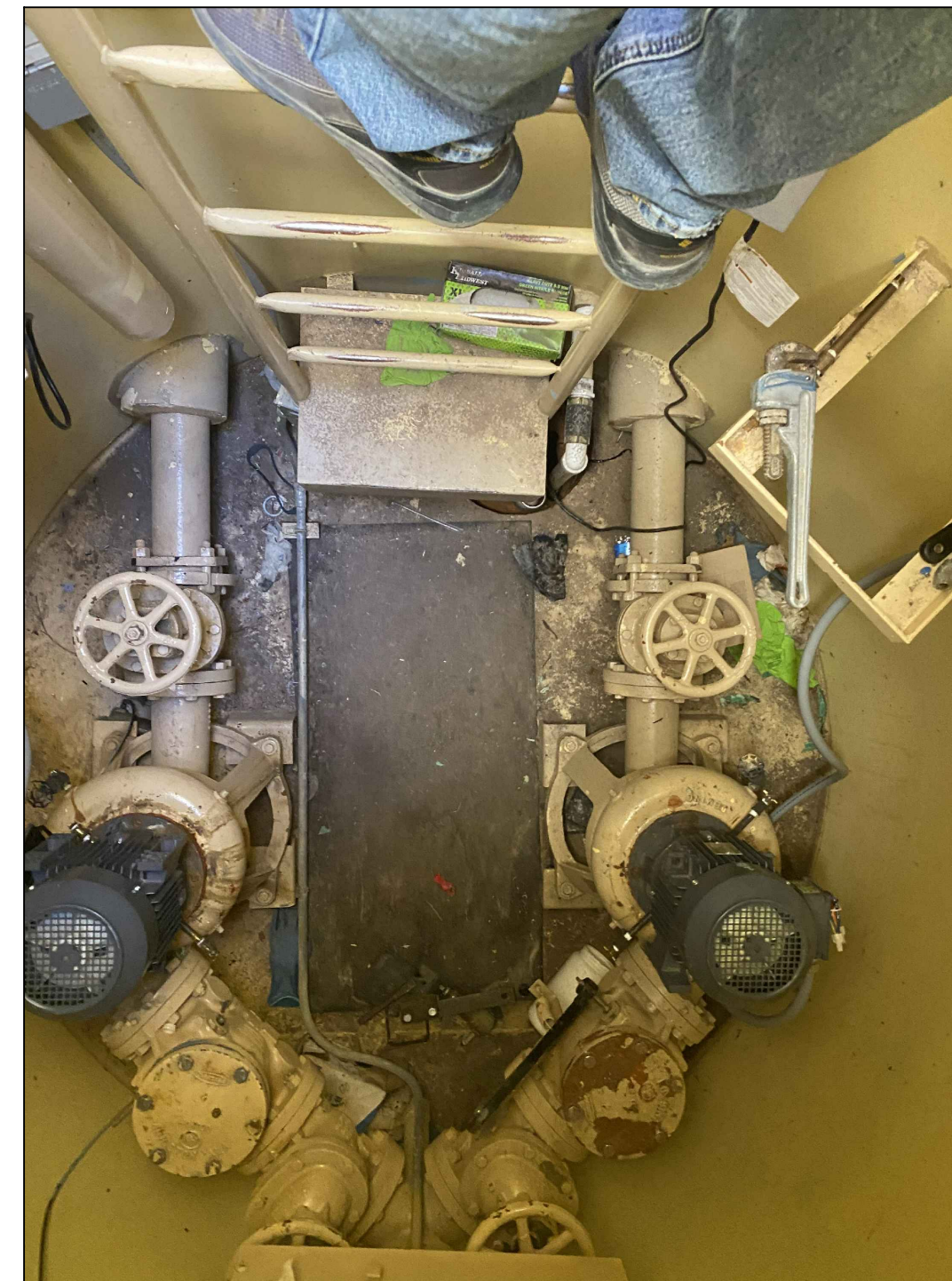
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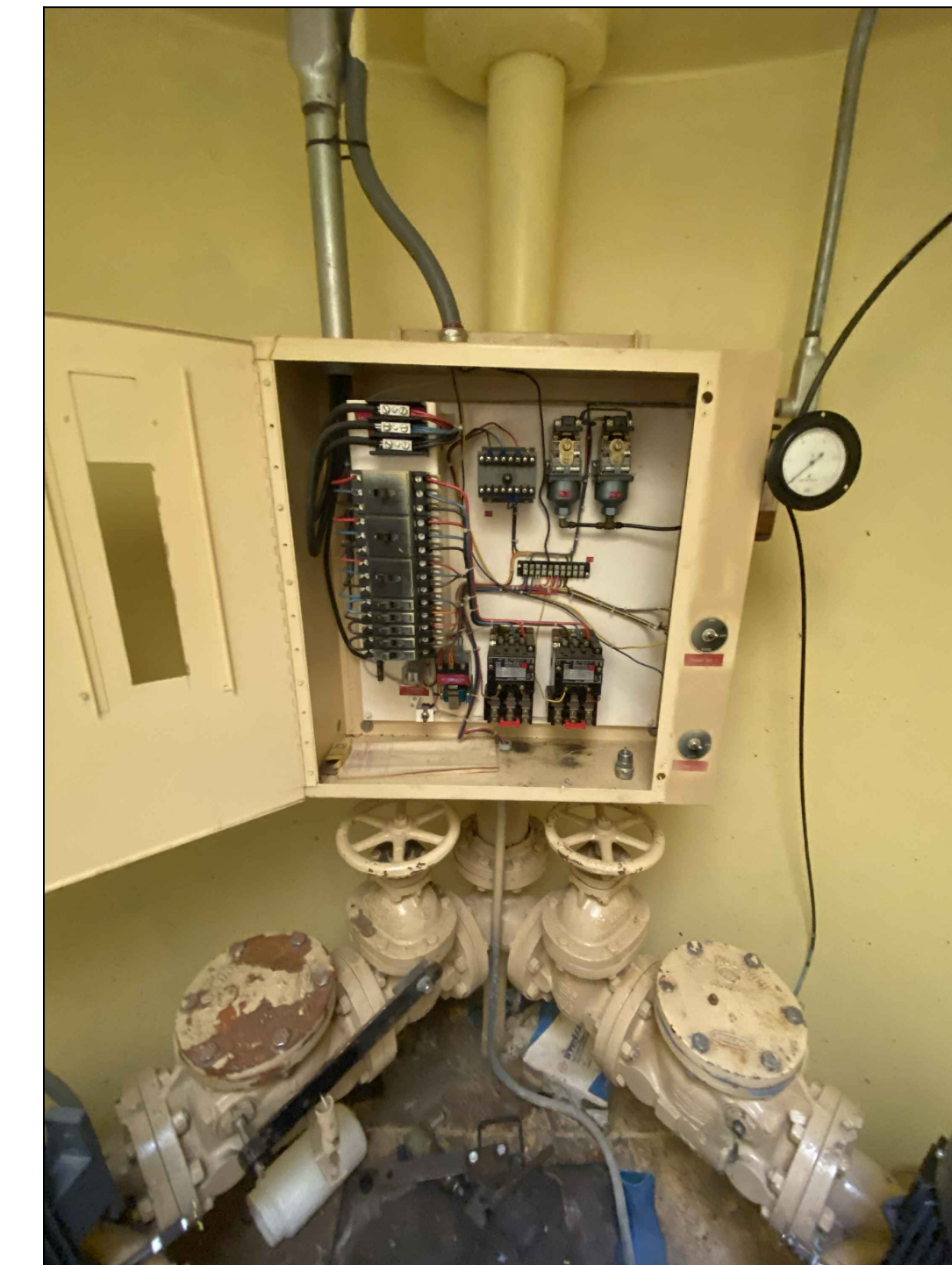
SECTION VIEW



PLAN VIEW



TOP VIEW



DISCHARGE PIPE

KEYED NOTES

1. 3" FL SIDE OUTLET 90° BEND(OWNER FURNISHED)
2. 3" FL x PE DIP SPOOL
3. 3" MEGA FLANGE(OWNER FURNISHED)
4. 3" FL x FL PLUG VALVE(OWNER FURNISHED)
5. 3" FL x FL CHECK VALVE(OWNER FURNISHED)
6. 3" FL x FL 45° BEND
7. NEW PUMP(OWNER FURNISHED)
8. 4" FL x FL PLUG VALVE(OWNER FURNISHED)
9. 4" MEGA FLANGE(OWNER FURNISHED)
10. 4" x 3" FL x FL REDUCER
11. 4" FL x PE DIP SPOOL
12. 4" MJ SOLID SLEEVE W/MEGALUGS
13. PUMP STAND/ ADJUSTABLE HEIGHT/ WELDED TO FLOOR
14. PIPE SUPPORT
15. REWELD EXISTING LID HINGE TO USABLE STATE

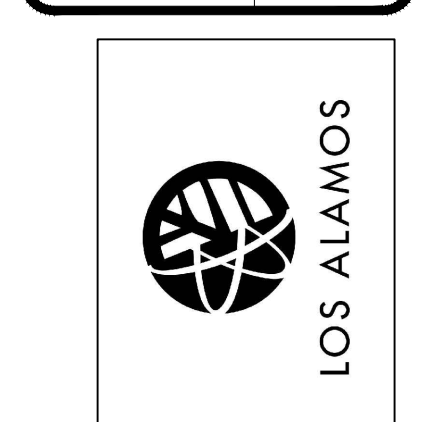
GENERAL NOTES

1. ALL FLANGES ANSI 125 OR ANSI 150
2. ALL FITTINGS AWWA C110 DUCTILE IRON
3. ALL PIPE AND FITTINGS SHALL BE FIELD COATED
4. LIFT STATION INTERIOR SHALL BE THOROUGHLY CLEANED AND FLOOR PRESSURE WASHED.
5. FLOOR SHALL BE REPAINTED WITH NON-SKID EPOXY PAINT: PRIMER AND TWO COATS OF EPOXY PAINT. MATCH EXISTING COLOR
6. ALL PENETRATIONS WHICH REMAIN UNUSED SHALL BE CUT AND PLUGGED NEATLY FLUSH WITH THE DRY WELL WALL. PLUG CONDUITS/PIPES WITH SILICON AND PLACE A 0.5 IN THICK HARD SET EPOXY CAP FLUSH WITH WALL
7. ALL AREAS WHERE COATING IS REMOVED OR SCUFFED AS A PART OF THE DEMOLITION SHALL BE REPAINTED. MATCH EXISTING COLOR
8. REMOVE AND DISPOSE OF ALL PIPING, FITTINGS, PUMPS, VALVES, CONTROL PANEL AND ELECTRICAL CONDUIT/WIRE BEING REPLACED
9. CONTRACTOR SHALL COORDINATE INSTALLATION OF NEW PUMPS WITH DPU GWS OPERATIONS, WHO WILL SUPPORT WITH VACTOR WHILE PUMPS ARE DISABLED

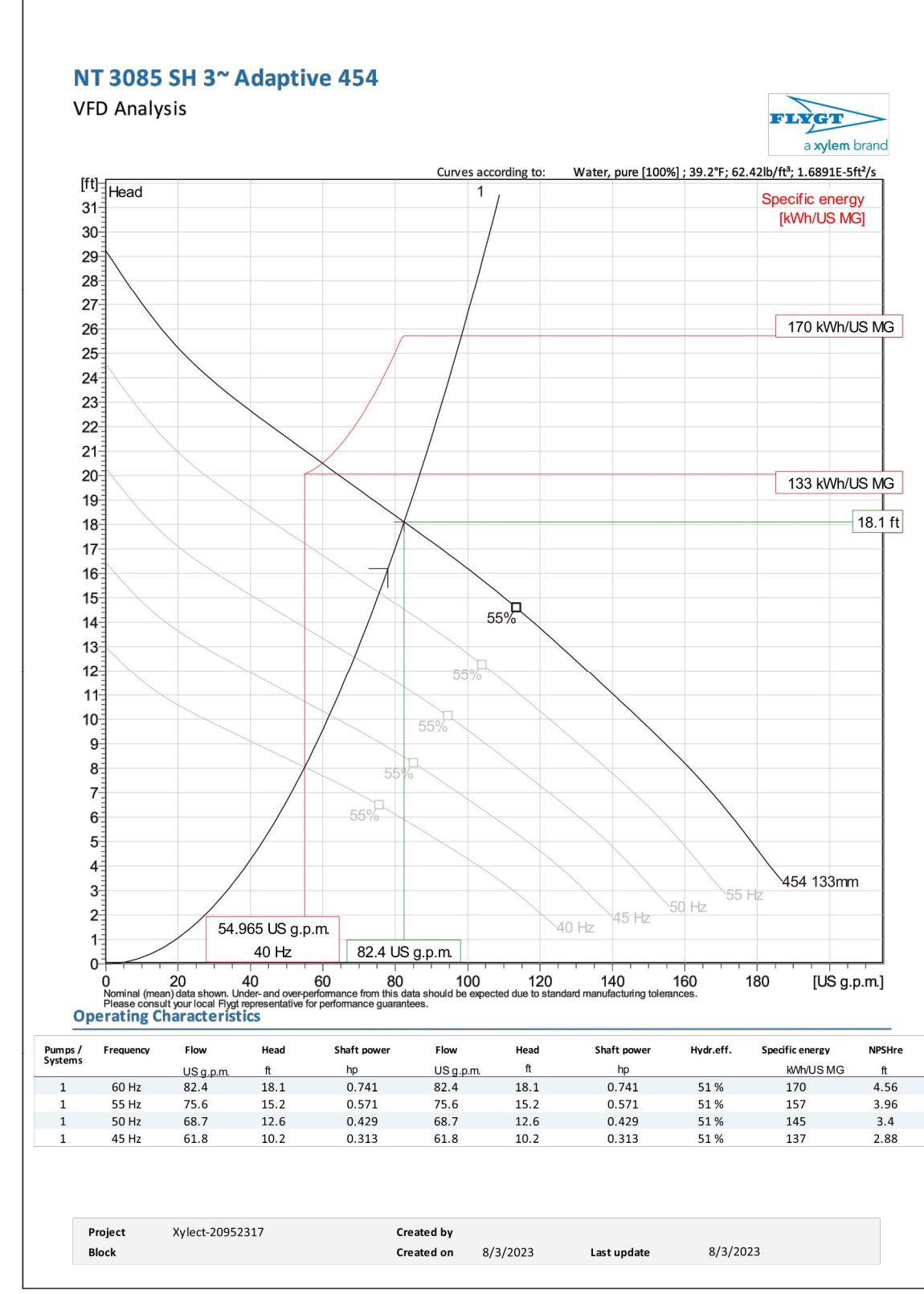
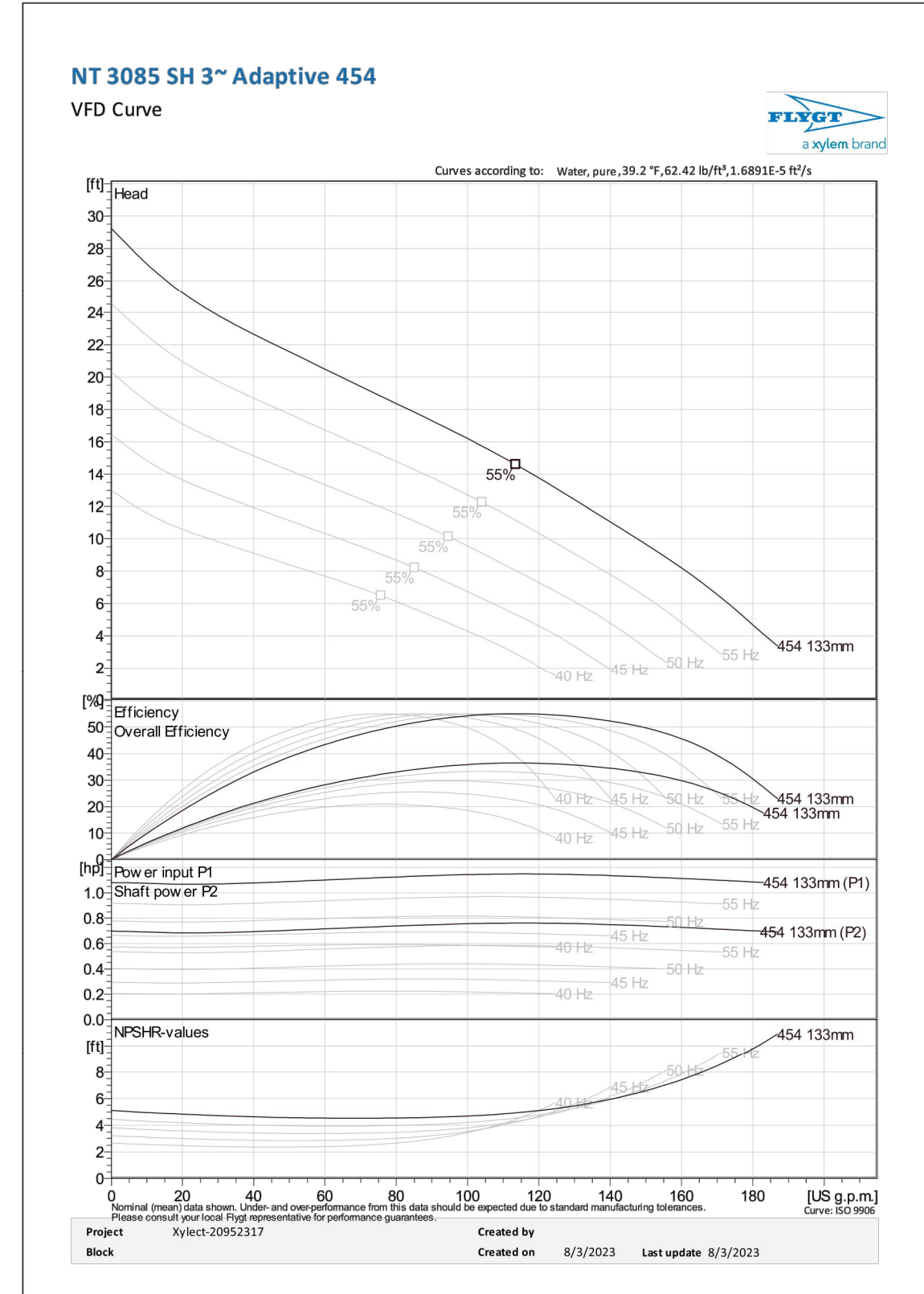
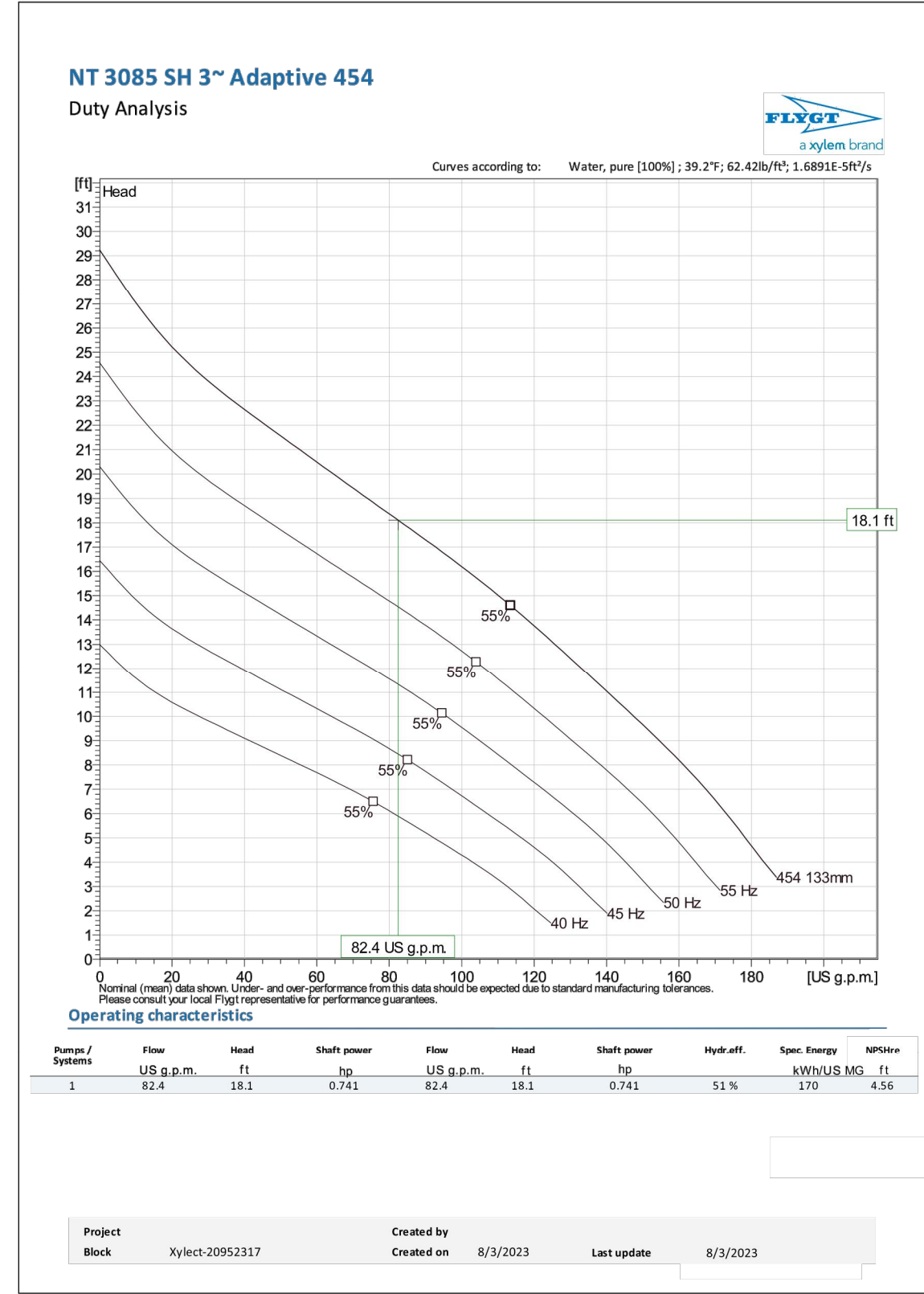
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SCALE:	

LOS ARBOLES
LIFT STATION IMPROVEMENTS
MECHANICAL IMPROVEMENTS



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NT 3085 SH 3~ Adaptive 454

Patented self-cleaning semi-open channel impeller, ideal for pumping in waste water applications. Modular based design with high adaptation grade.

Technical specification

Curves according to: Water, pure [100%], 39.2°F, 62.42 lb/ft³, 1.6891E-5 ft/s

Motor number: N3085-060 15-10-44L-D 1.6hp	Installation type: T-Vertical Permanent, Dry
Impeller diameter: 133 mm	Discharge diameter: 3 inch

Impeller diameter: 133 mm	Impeller: Hard-Iron™
Discharge diameter: 3 inch	Motor housing material: Grey cast iron
Inlet diameter: 80 mm	
Maximum operating speed: 1755 rpm	
Number of blades: 2	
Max. fluid temperature: 40 °C	

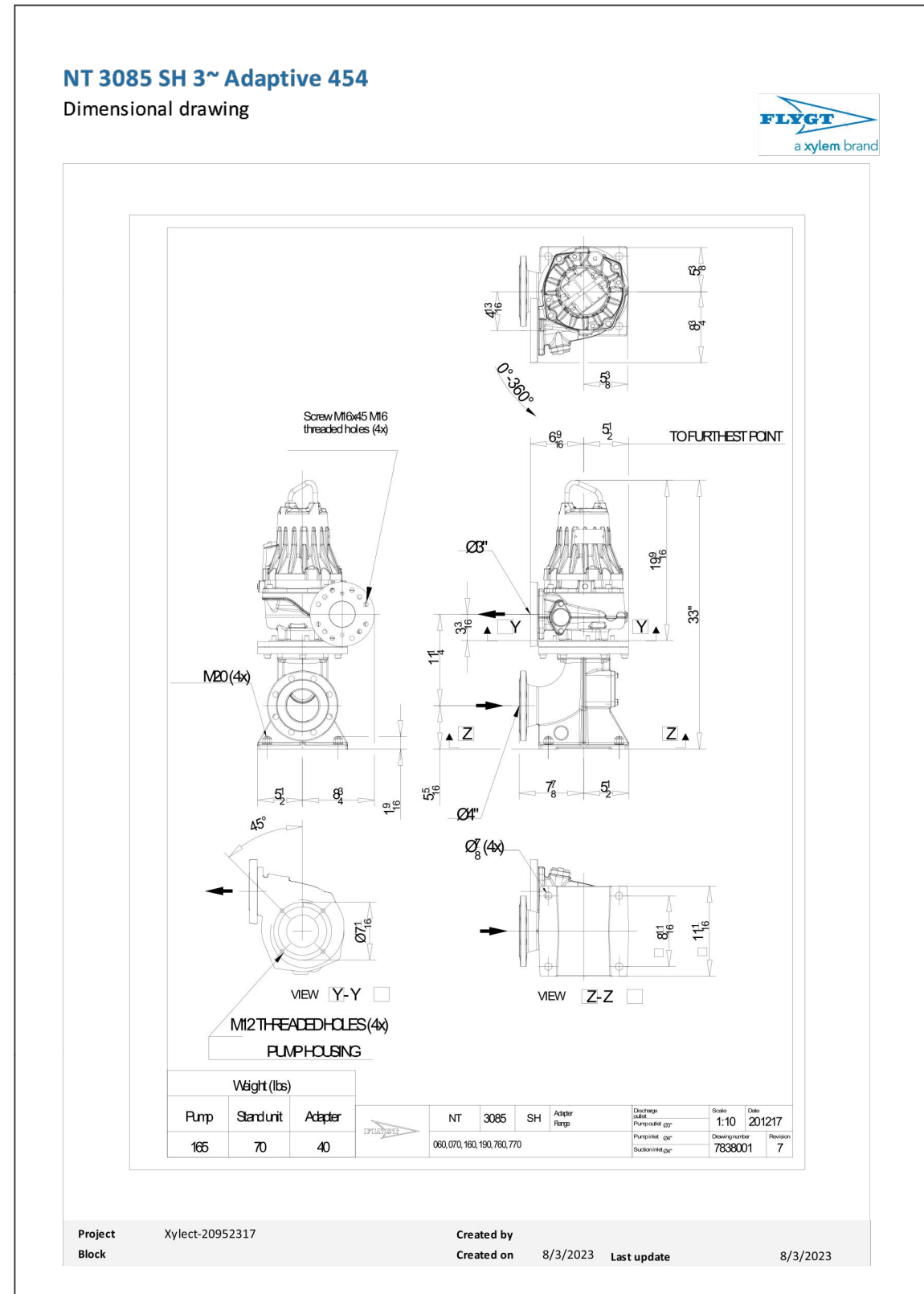
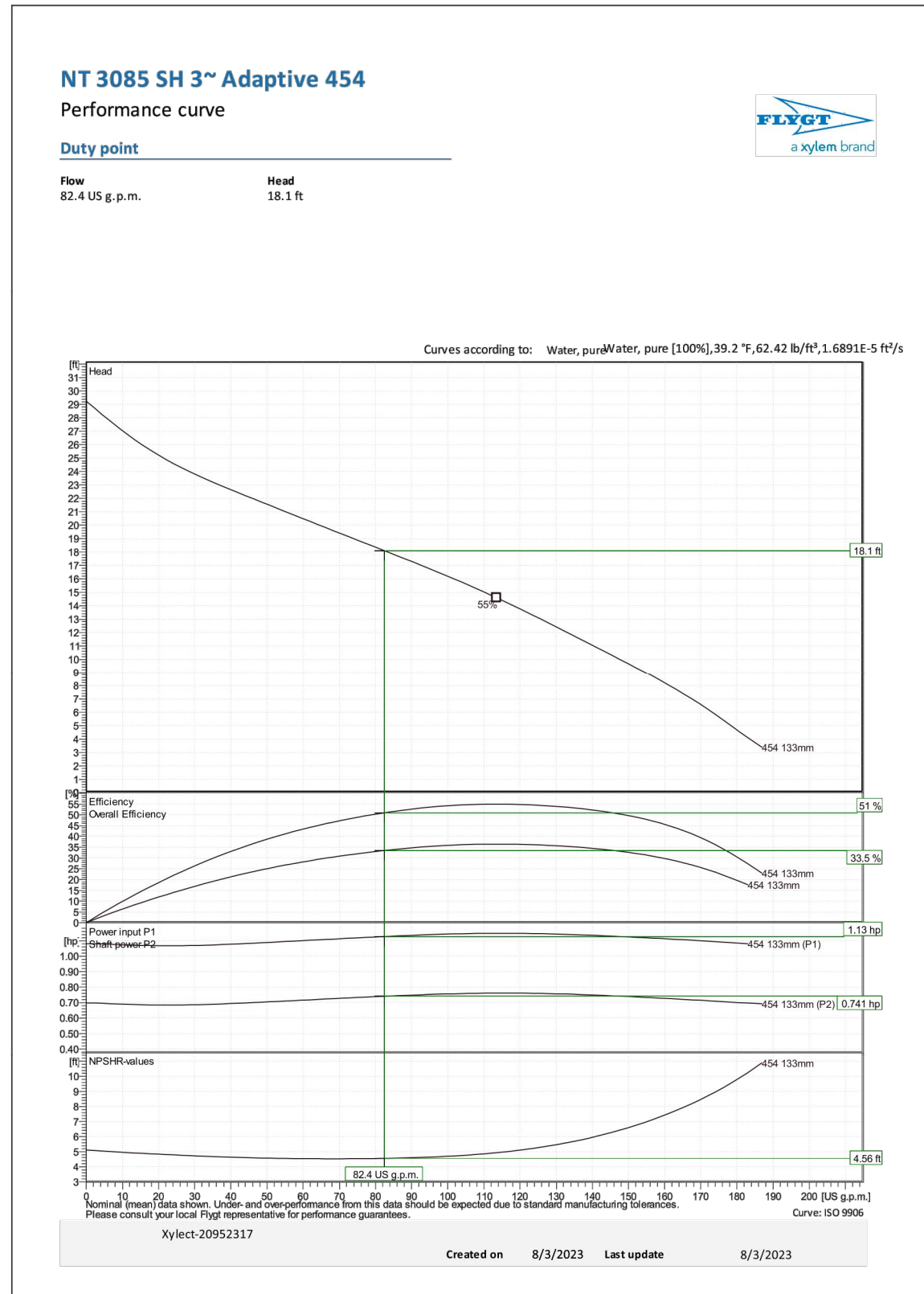
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Created by: [Name]
Created on: 8/3/2023
Last update: 8/3/2023

NT 3085 SH 3~ Adaptive 454

Technical specification

Motor - General		Motor - Technical	
Motor number: N3085-060 15-10-44L-D 1.6hp	Phases: 3~	Power factor - 1/2 Load: 0.63	Motor efficiency - 1/2 Load: 76.7 %
ATX approved: No	Number of poles: 4	Power factor - 3/4 Load: 0.54	Motor efficiency - 3/4 Load: 73.5 %
Frequency: 60 Hz	Rated voltage: 230 V	Power factor - 1/2 Load: 0.43	Motor efficiency - 1/2 Load: 66.9 %
Version code: 060	Insulation class: H		
	Type of Duty: S1		
	Rated speed: 1755 rpm		
	Rated current: 6.2 A		
	Stator variant: 66		
	Rated power: 1.6 hp		
	Total moment of inertia: 0.211 B·ft²		
	Starts per hour max.: 30		
	Starting current, direct starting: 52 A		
	Starting current, star-delta: 17.3 A		

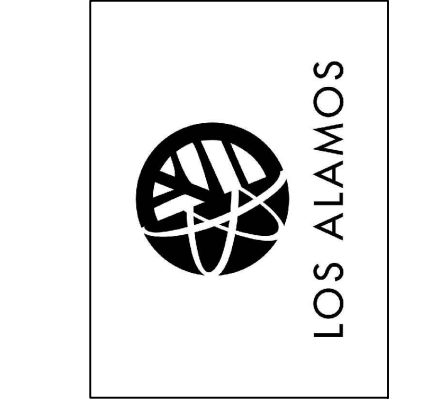
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Created by: [Name]
Created on: 8/3/2023
Last update: 8/3/2023



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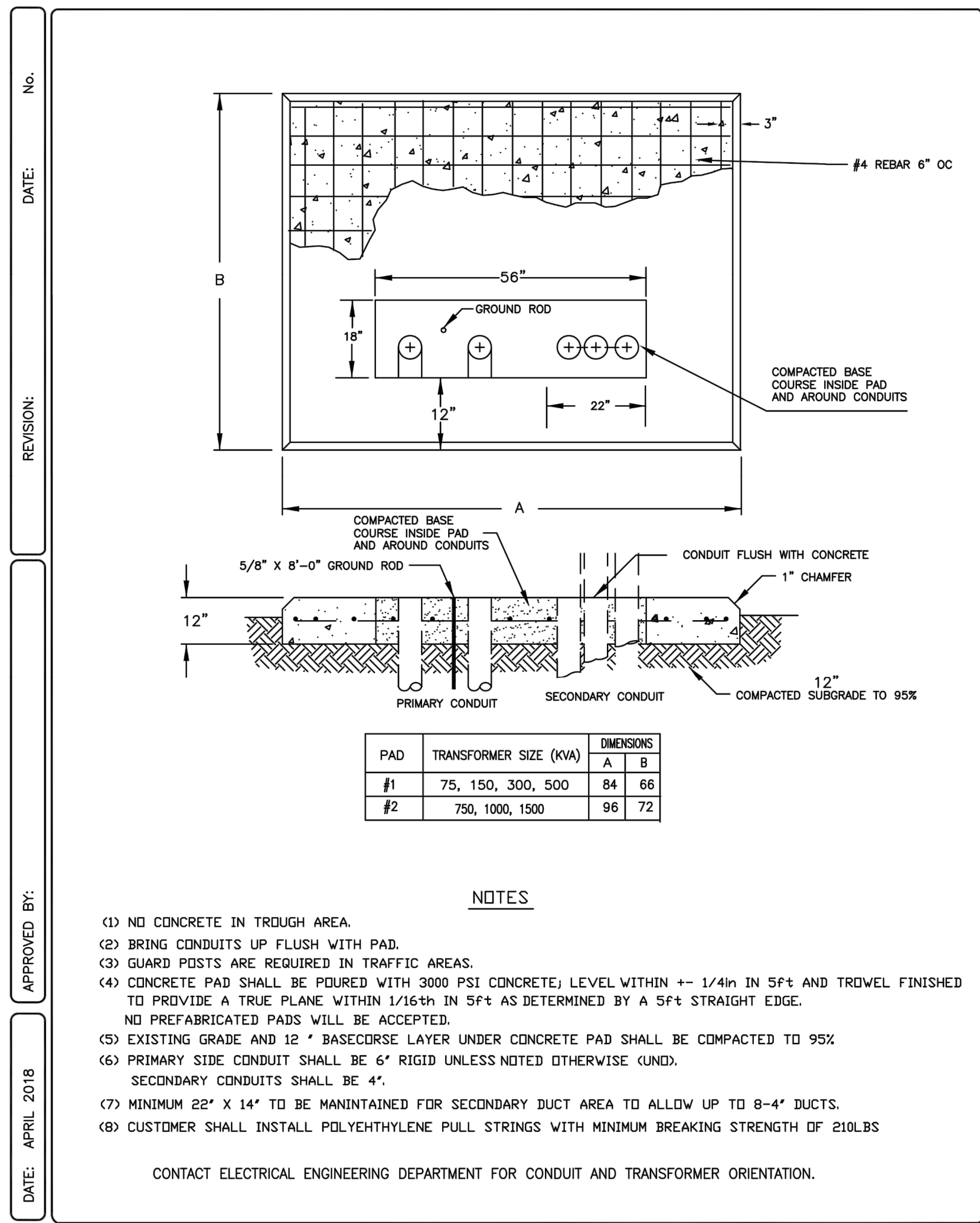
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DATE: _____
SCALE: _____

LOS ARBOLES
LIFT STATION IMPROVEMENTS
PUMP INFORMATION

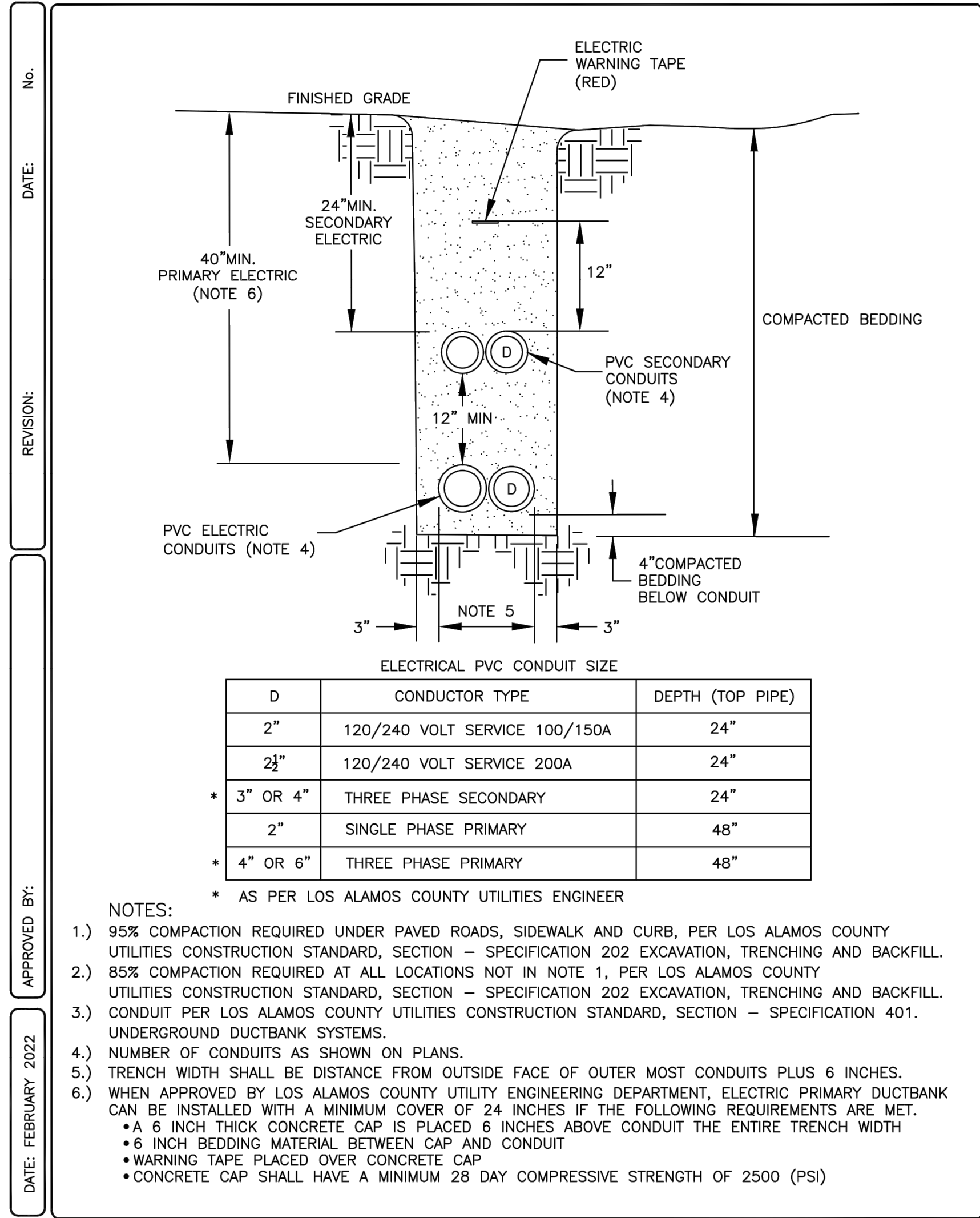


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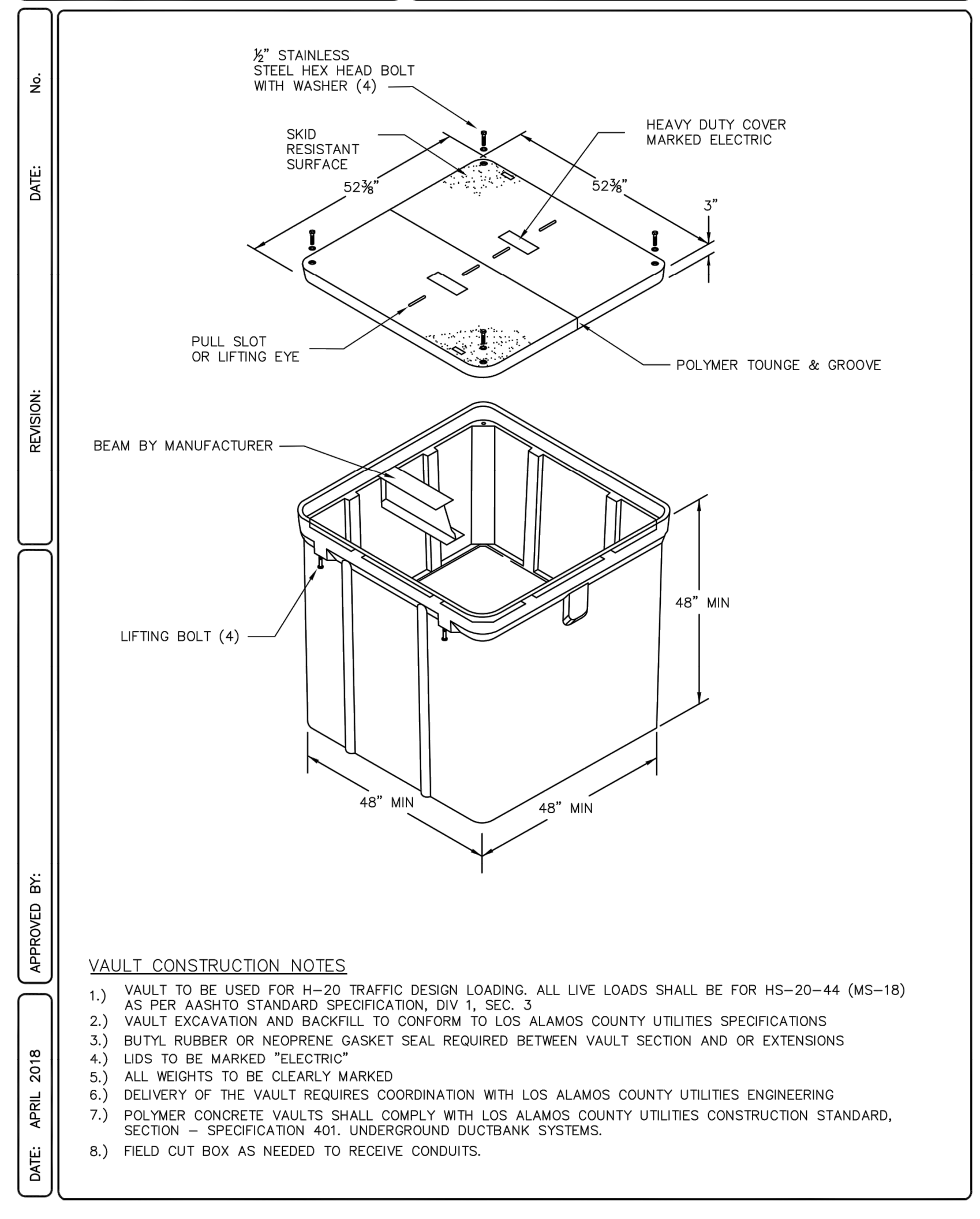
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 DATE: APRIL 2018



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 REVISION: _____
 APPROVED BY: _____
 DATE: FEBRUARY 2022

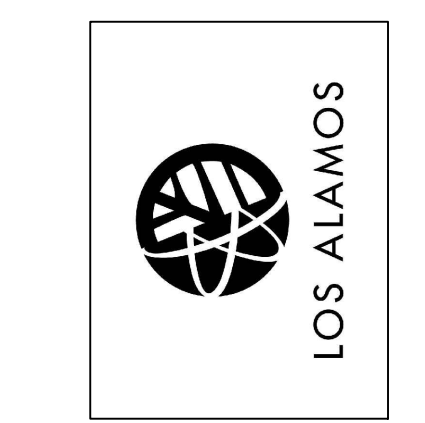


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LOS ARBOLES
LIFT STATION IMPROVEMENTS
TRENCHING STANDARD



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