

VICINITY MAP SCALE: 1" = 1,000'

A PORTION OF SECTION 15, T-21-N, R-2-W OF THE GILA AND SALT RIVER BASELINE AND MERIDIAN YAVAPAI COUNTY, ARIZONA

ENGINEER

MATRIX NEW WORLD ENGINEERING, LAND SURVEYING AND LANDSCAPE ARCHITECTURE, PC

CONTACT: ANDREW J. MACHUGH, P.E. #44674 PHONE: (602) 955-5547

3033 NORTH 44th STREET, SUITE 270

PHOENIX, AZ 85018

OWNER

ASH FORK DEVELOPMENT ASSOCIATION, INC. 450 W LEWIS AVE. ASH FORK, AZ 86320 PHONE: (928) 637-2774

AGENCY

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY 1110 W. WASHINGTON STREET PHOENIX, AZ 85007 PHONE: (602) 771-2300

AS-BUILT CERTIFICATION:

I HEREBY CERTIFY THAT THE "AS-BUILT" INFORMATION SHOWN HEREON WAS OBTAINED UNDER MY DIRECT SUPERVISION AND IS CORRECT AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR/ENGINEER

REGISTRATION NUMBER: COMPANY NAME: ADDRESS: PHONE NUMBER:

ASH FORK WELL NO. 3 APPROVAL TO CONSTRUCT WELL EQUIPPING AND CONNECTIONS ASH FORK DEVELOPMENT ASSOCIATION, INC. YAVAPAI COUNTY, ARIZONA

GENERAL ENGINEERING NOTES

- 1. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO
- 2. BACKFILLING SHALL NOT BE COMPLETED UNTIL PIPES ARE INSPECTED
- 4. ALL CONSTRUCTION SHALL CONFORM TO THE JURISDICTIONAL AGENCY ENGINEERING DESIGN STANDARDS AND POLICIES AND AGENCY STANDARD DETAILS, UNLESS EXPLICITLY STATED OTHERWISE.

- 7. THE CONTRACTOR SHALL BE LIABLE FOR DELAYS OR DAMAGES TO UTILITIES RELATED TO THIS CONSTRUCTION. THE CONTRACTOR SHALI

- AS-BUILT DRAWINGS CERTIFIED BY THE OWNER'S ENGINEER SHALL BE SUBMITTED TO AND ACCEPTED BY THE JURISDICTIONAL AGENCY PRIOR TO FINAL ACCEPTANCE OF WORK (IF NECESSARY).
- INCLUDING SATISFACTORY IDENTIFICATION OF ITEMS. UNITS. AND
- 11. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE SUBMITTAL REVIEW. ANY INSPECTION OR APPROVALS BY THE JURISDICTIONAL AGENCY, OWNER, ENGINEER, OR OTHERS SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR AND THEIR SUPPLIERS FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH APPLICABLE CODES AND AGENCY REQUIREMENTS.
- 12. IN ACCORDANCE WITH ARIZONA ADMINISTRATIVE CODE (A.A.C.)

R18-4-213, ALL MATERIALS ADDED AFTER JANUARY 1ST, 1993, WHICH MAY COME INTO CONTACT WITH DRINKING WATER, SHALL

- 1. A WATER SYSTEM SHALL NOT CONSTRUCT OR ADD TO ITS SYSTEM.
- WITHIN 50 FEET FROM EXISTING SEWERS UNLESS THE SEWER
- PURSUANT TO A.R.S. §§ 49-241 (A) THROUGH 49 251 -
- DISPOSAL FACILITIES REGULATED UNDER THE ARIZONA HAZARDOUS WASTE MANAGEMENT ACT, A.R.S. § 49 - 921 ET SEQ.
- 3. PIPE, FITTINGS, VALVES AND OTHER APPURTENANCES SHALL CONFORM TO CURRENT AWWA, ASA OR FEDERAL STANDARDS.

JOB NO:

DATE:

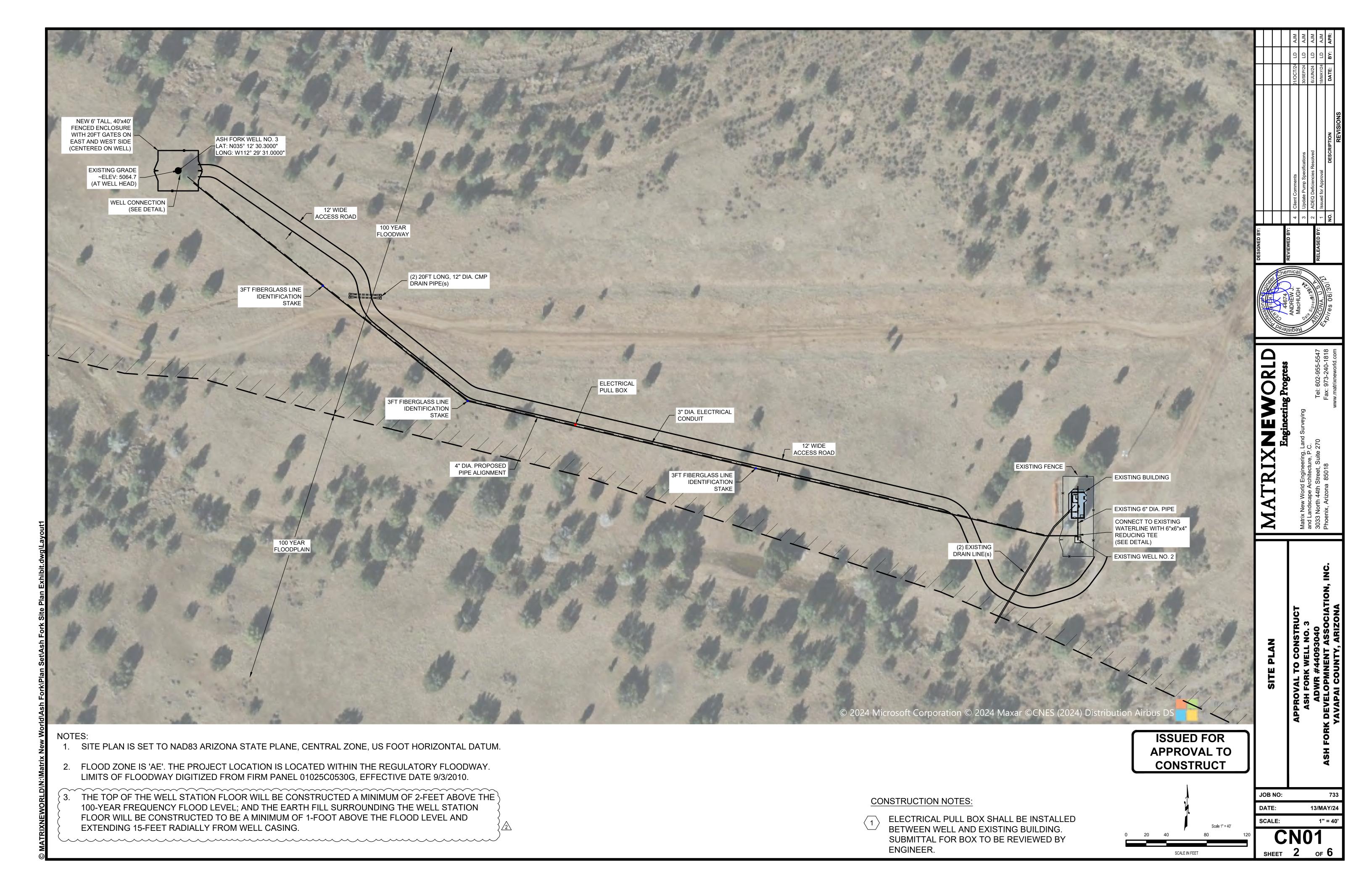
SHEET INDEX

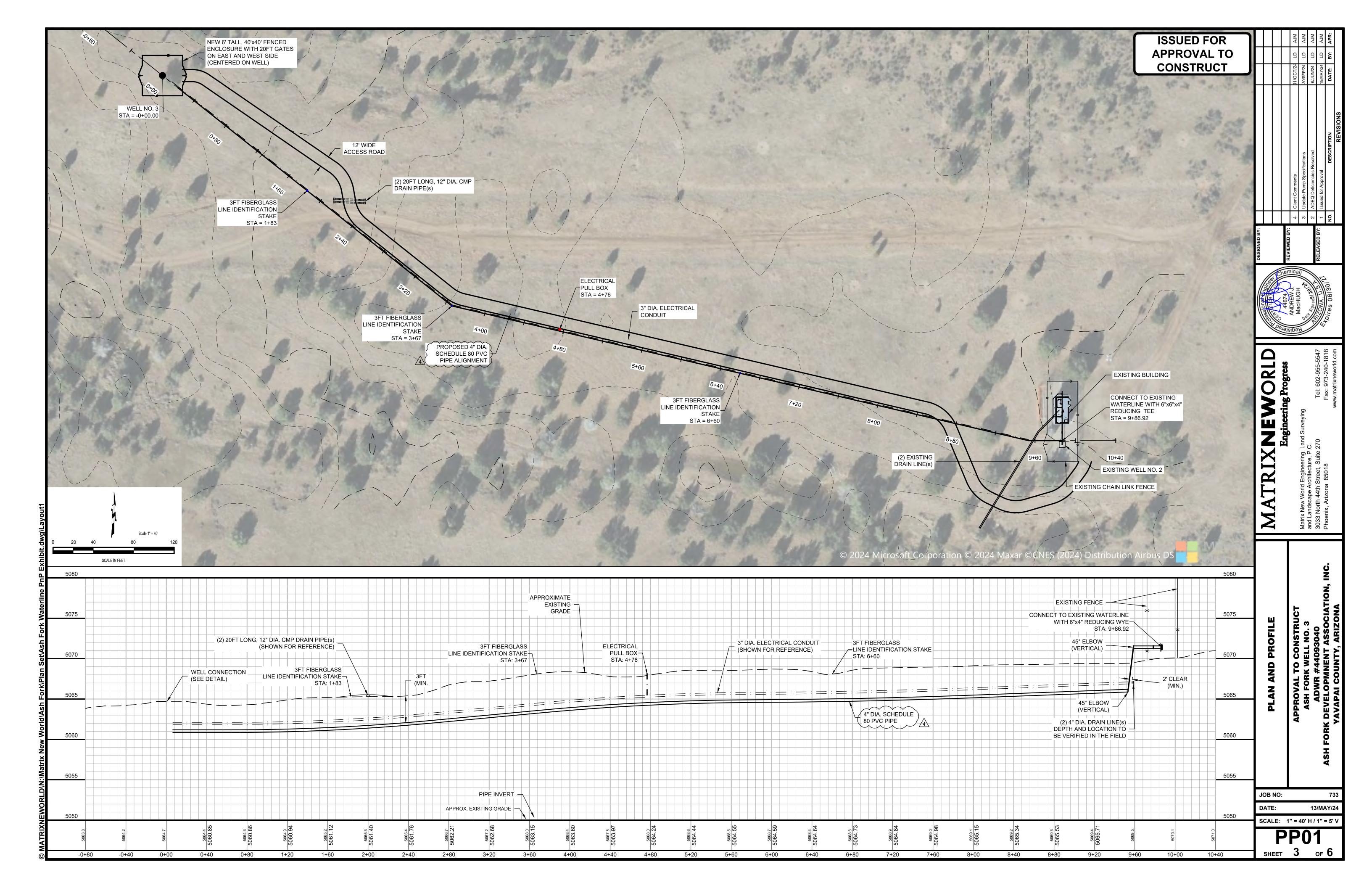
DESCRIPTION	DRAWING NAME	SHEET NO
COVER SHEET	GN01	1
SITE PLAN	CN01	2
PLAN AND PROFILE	PP01	3
DETAILS	DTL1	4
ELECTRICAL SITE PLAN	E1.0	5
ONE-LINE DIAGRAM	E2.0	6

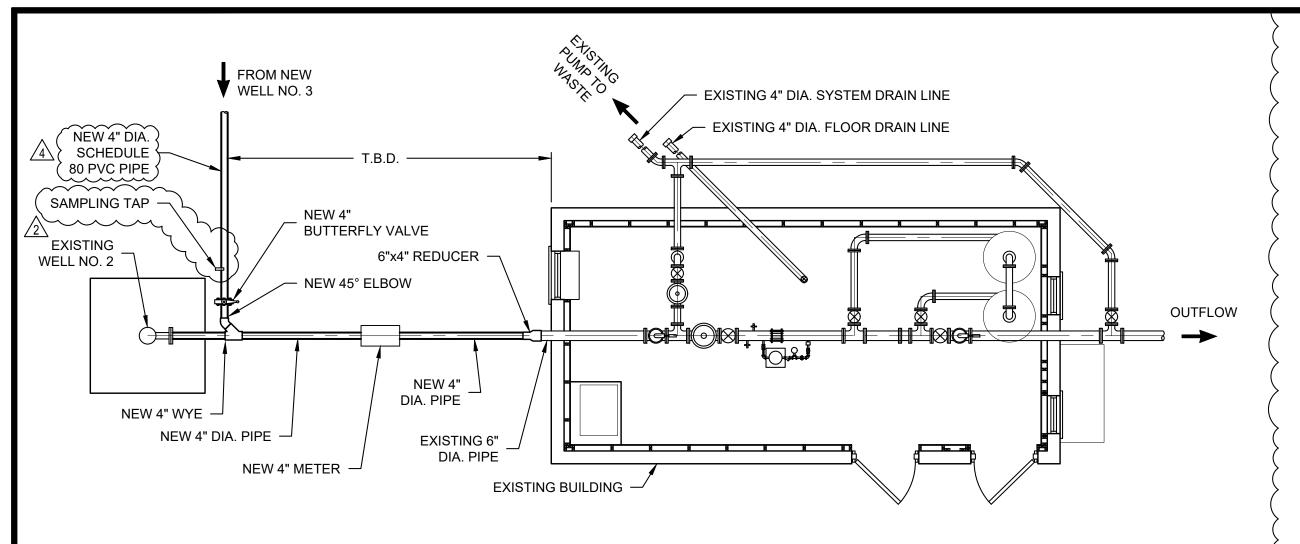
ISSUED FOR APPROVAL TO CONSTRUCT

13/MAY/24 SCALE: As Noted

SHEET





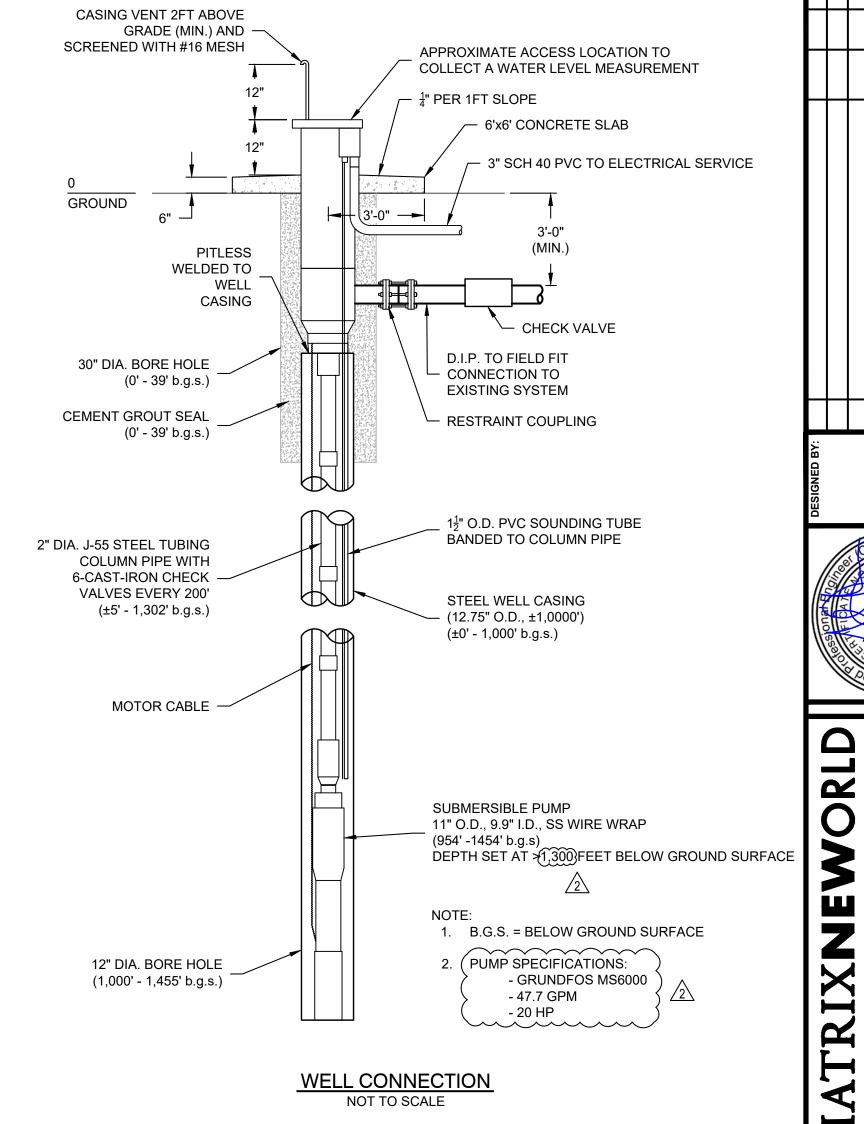


EXISTING BUILDING LAYOUT

Company name: Created by: GRUNDFOS 25/09/2024 45S200-47, 3*460 V, 60Hz General information: Product name: 45S200-47 Product No: 98924606 5712603665870 EAN number: \$ 28498 Technical: Pump speed on which pump data are based: 3450 rpm Actual calculated flow: 47.7 US GPM Rated flow: 47.1 US GPM 1186 ft Resulting head of the pump: 1158 ft Rated head: Number of reduced-diameter impellers: NONE Shaft seal for motor: SIC/SICNBR CULDWUS,CCSAUS Q = 47.7 US GPM H = 1186 ft Approvals: n = 3490 rpm Density = 62.29 lb/ft³ s = 6.3319 Wh/gal Pumped liquid = Water PROP65 Approvals for drinking water: Eta pump = 70.2 % Eta pump+motor = 58.7 % Liquid temperature during operation = 68 °F Curve tolerance: ISO9906:2012 3B Motor version T40 YES Return valve: Materials: Stainless steel Pump: EN 1.4301 AISI 304 Stainless steel EN 1.4301 P1 = 18.11 kW P2 = 20.3 HP AISI 304 Stainless steel DIN W.-Nr. 1.4301 AISI 304 Installation: Maximum ambient pressure: 870.23 psi 870.23 psi Maximum operating pressure: 648.32 psi Maximum outlet pressure: NPT(M) Type of connection: Size of connection: 2 inch Motor diameter: 6 inch 5.71 in Minimum borehole diameter: Pumped liquid: Water Liquid temperature range: 5 .. 104 °F 68 °F Selected liquid temperature: • 😛 • 62.29 lb/ft³ Density: Electrical data: MS6000 Motor type: L1 L2 L3 PE L1 L2 L3 PE Motor flange design: NEMA 20 HP Rated power - P2: 20 HP Power (P2) required by pump: KVA code: Mains frequency: 60 Hz Rated voltage: 3 x 440-460-480 V 1.15 Service factor: 33.5-32.5-32.0 A Rated current: 520-570-610 % Starting current: 0.85-0.84-0.81 Cos phi - power factor: 3450-3470-3480 rpm Rated speed: Printed from Grundfos Product Centre [2024.38.002] PUMP PERFORMANCE CURVE

TYPICAL PIPING BEDDING DETAIL

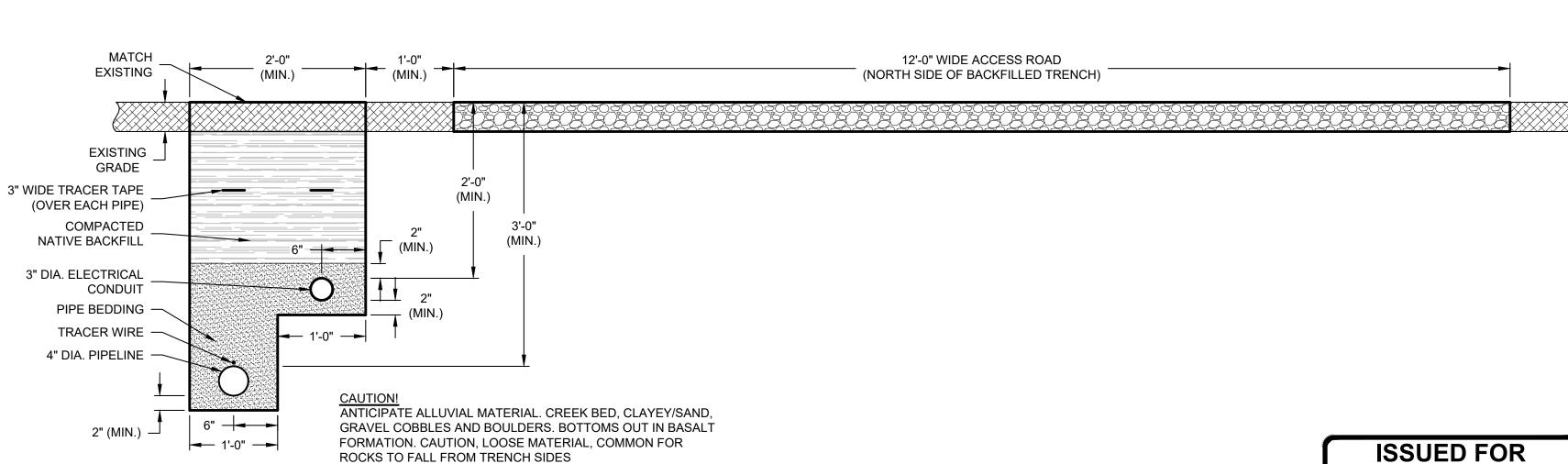
NOT TO SCALE



APPROXIMATE QUANTITIES								
4in Dia. Schedule 80 PVC Pipe	960 l.f.							
3in Dia. Sch40 PVC (Conduit)	960 l.f.							
Water Meter	1							
4" Wye	1							
6"x6"x4" Reducing Tee	1							
4" Butterfly Valve	2							
4" Dia. 45° ELBOW	2							

CONTRACTOR TO PROVIDE SUBMITTALS FOR EACH COMPONENT TO ENGINEER / OWNER FOR REVIEW.

ALL PRESSURE PIPING SHALL BE HYDROSTATIC PRESSURE TESTED FOLLOWING MAG SPECIFICATION 611.2.2 AND AWWA 600. THE ENGINEER SHALL BE NOTIFIED 1 DAY IN ADVANCE OF TESTING. IF USED, THRUST BLOCKS MUST BE INSTALLED A MINIMUM OF 5 DAYS PRIOR TO PRESSURE TESTING.



ISSUED FOR
APPROVAL TO
CONSTRUCT

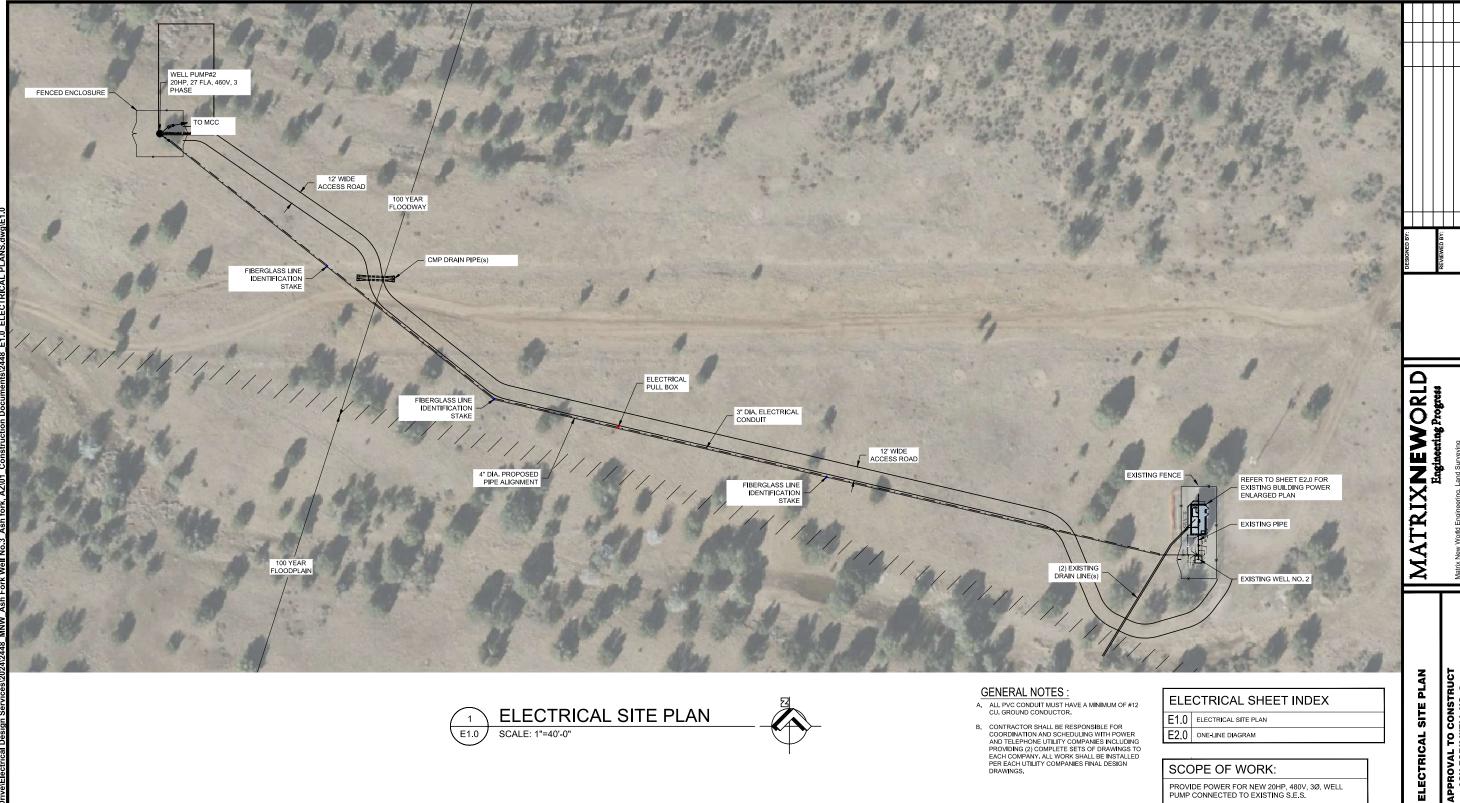
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ATE: 13/MAY/24

DATE: 13/MAY/24

SCALE: As Noted

DTL1

SHEET 4 OF 6







A. ALL PVC CONDUIT MUST HAVE A MINIMUM OF #12 CU. GROUND CONDUCTOR.

B. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND SCHEDULING WITH POWER AND TELEPHONE UTILITY COMPANIES INCLUDING PROVIDING (2) COMPLETE SETS OF DRAWINGS TO EACH COMPANY. ALL WORK SHALL BE INSTALLED PER EACH UTILITY COMPANIES FINAL DESIGN DRAWINGS.

ELECTRICAL SHEET INDEX

E1.0 ELECTRICAL SITE PLAN

E2.0 ONE-LINE DIAGRAM

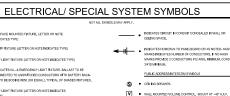
SCOPE OF WORK:

PROVIDE POWER FOR NEW 20HP, 480V, 3Ø, WELL PUMP CONNECTED TO EXISTING S.E.S.



DATE: 29/SEP/24 SCALE:

E1.0



H ... • EXTERIOR INTERCOM HORN, WEATHER PROOF. SPEAKERIDISTIAL CLOCK COMBINATION, WIDENOTES ANALOG CLOCK

TELEPHONE OUTLIET FLOOR MOUNTED

FIRE ALARM SYMBOLS

MANUAL PULL STATION. MOUNT AT +48" A.F.F.

F * EXTERIOR WEATHER-PROOF HOR HORNISTROBE, MOUNT AT +80° A.F.;

S • IONIZATION SMOKE DETECTOR.

♠ • HEAT DETECTOR, CHUNG MOUNTE

 ANSUL (MTCHEN HOOD SYSTEM). FACE • FIRE ALARM CONTROL PANEL.

SECURITY SYSTEMS SYMBOLS THERMOSTAT CONTACT FOR FREEZERS.

K . SUB-ZONE KEY PAD MOUNTED AT +48" A.F.F. K . MASTER KEY PAD MOUNTED AT +48" A.F.F. ● CARD READER, MOUNT AT +48" A.F.F.

• MOTION DETECTOR, WIDE ANGLE. MOTION DETECTOR, 390° ANGLE.

■ • FLOOR MOUNTED MIC.JACK

MISCELLANEOUS SYMBOLS TC . TIME CLOCK, REFER TO ONE-LINE DIAGRAM.

ELECTRICAL SPECIFICATIONS

SCOPE THE WORK SHALL INCLUDE LABOR, MATERIAL SYSTEMS INDICATED ON THE DRAWINGS AND SPECIFICATIONS. THE WORK SHALL INCLUDE BUT IS NOT LIMITED TO:

A. ELECTRICAL SERVICE, COMPLETE WITH UNDERGROUND SERVICE AND CONDUIT FOR SERVICE.

B. DISTRIBUTION SYSTEM FOR LIGHTING INCLUDING SWITCHES, RECEPTACLES, OUTLETS AND LIGHTING FIXTURES WITH LAMPS. C. DISTRIBUTION SYSTEM FOR POWER INCLUDING WIRING TO AIR CONDITIONING EQUIPMENT AND CONTROLS.

D. CONDUIT, SLEEVES, MOUNTING BOARDS, WALL OUTLETS AND UNDERGROUND DUCT FOR TELEPHONE. WORK NOT INCLUDED: FURNISHING AND INSTALLING MOTORS AND AUTOMATIC CONTROLLERS.

STATE AUTHORITIES.

3. ELECTRICAL DRAWINGS: DRAWINGS ARE DIAGRAMMATIC AND OUTLET LOCATIONS ARE APPROXIMATE. REFER TO MECHANICAL AND STRUCTURAL PLANS REGARDING AVAILABLE SPACE AND CHECK FIELD CONDITIONS BEFORE MAKING ELECTRICAL INSTALLATIONS. CIRCUIT OUTLETS AS INDICATED ON THE DRAWING MAKING REVISIONS ONLY WITH THE EXPRESS CONSENT OF THE ARCHITECT.

4. SHOP DRAWINGS: SUBMIT SIX COPIES OF DETAILED SHOP DRAWINGS OF PANEL, SERVICE ENTRANCE/DISTRIBUTION PANEL OR OTHER SPECIALLY SARRICATED EQUIPMENT TO THE ARCHITECT. NO SUCH EQUIPMENT SHALL BE MANUFACTURED UNTIL APPROVED BY THE ENGINEER AND WHERE APPLICABLE, THE SERVING UTILITY

5. INSPECTION: THE WORK WILL BE INSPECTED FOR COMPLIANCE WITH DRAWING AND SPECIFICATIONS BY THE OWNER'S REPRESENTATIVE.

IN COMMENS OF PRESENTAINE.

6. MATERIA, AND WORKMANSHEP SHALL COMPLY WITH CURRENT ELECTRICAL AND MECHANICAL ENGINEERING PRACTICES. THE NATIONAL ELECTRICAL CODE ON DILL LICCAL CODES SHALL GOVERN ALL WORK. PROVIDE NEW STANDARD PRODUCTS LISTED BY U.S. SMILLAR ITEMS OF MATERIAL SHALL BE OF THE SAME TYPE AND MANUFACTURES ALL LEXPOSED CONDUITS AND DEVICES SHALL BE TRUE TO LIME, FLUMB AND ADEQUATELY SCALED IN THE SAME TYPE AND PAREL BOOK SHALL BE TRUE TO LIME, FLUMB AND ADEQUATELY SHALL BE TRUE TO LIME, FROTEGES AND AND ADEQUATELY AND ADEQUATE AND ADEQUATE AND ADMINISTRATION OF THE PROTECTION OF THE PROTEC CONSTRUCTION.

CURSTRUCTION.

7. SERVICE ENTRANCIE: THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SERVICE ENTRANCE EUROPHENT AS RONGERED TO COMPLETE THE ELECTRICAL SYSTEM FROM REQUIRED TO COMPLETE THE ELECTRICAL SYSTEM FROM THE POINT OF SERVICE BY THE POWER COMPANY. THE SERVICE SHALL BE UNDERFROUND TO THE ENTRANCE EQUIPMENT AND METERING SY THE POWER COMPANY OR AS OTHERWISE MOLICATED. THE SERVICE NEUTRAL SHALL BE GROUNDED WITH CODE SIZE WHICH ALL METERING THE CHARLES HERE OF THE POWER COMPANY. THE REQUIREMENTS OF THE POWER COMPANY. THE THE POWER COMPANY. THE THE POWER COMPANY. THE THE POWER COMPANY. THE THE POWER COMPANY.

8. GROUNDING: PROVIDE GROUNDING CONDUCTOR OF SIZE INDICATED ON DRAWINGS IN ACCORDANCE WITH THE NEC AND ALL LOCAL CODES. BOND THE INTERIOR WATER PIPE SYSTEM TO THE MAIN ELECTRICAL GROUNDING SYSTEM.

9. CONDUIT: ALL WIRES (EXCEPT NM CABLE AND LOW VOLTAGE CONTROL) SHALL BE RIVIN IN CONDUIT. RIGID GALVANIZED STEEL CONDUIT SHALL BE USED IN CONCRETE AND UNDERGROUND LOCATIONS. STEEL CONDUIT INSTALLED UNDERGROUND SHALL BE ENCASED IN TWO INCH MINIMUM, CONCRETE ENVELOPE OR IN TWO INCH MINIMUM, CONCRETE ENVELOPE OR COMPLETELY COVERED WITH HALF LAPPED 950 SCOTCH-MAPP TO PG VUDECRGROUND CONDUITS SHALL NOT BE LESS THAN 24". PVC ELECTRICAL CONDUIT, UL LISTED MAY BE USED FOR UNDERGROUND SECTIONS OF LIGHTING GREAT AND FEBRUARY SALE AND SECTIONS OF LIGHTING GREAT SALE AND SHALL HAVE BOND WIRES, EXCEPT FEEDINS SERVICES.

ROOM EXISTING BUILDING

CKT BKR CIRCUIT DESCRIPTION

XFMR TA(WORST CASE)

EXISTING MCC (WELL PUMP#1&2)

22.4

CONN KVA CALC KVA

MOUNTING SURFACE FED FROM SES

20/3

200/3

LARGEST MOTOR

(1)-

THIN-WALL EMT SHALL BE EQUIPPED WITH WATERTIGHT COUPLING AND T & B INSULINERS CONNECTORS. CONDUIT AND EMT SHALL BE RIGIDLY SUPPORTED WITH DURABLE STRAPS AND HANGERS AT INTERVALS NOT TO EXCEED SIX FEET. COUPLINGS CONNECTORS AND LOCKNUTS SHALL BE TIGHTLY SECURED TO PROVIDE ELECTRICAL CONTINUITY OF GROUNDING.

10. OUTLET BOXES: GALVANIZED STEEL BOXES AT LEAST 1 1/2" DEEP AND 4" SQUARE SHALL. BE PROYUDED IN FINISHED AREAS FOR EACH WALL SWITCH, RECEPTACLE. TELEPHONE AND LIGHTING FIXTURE LOCATION. BOXES SURFACE MOUNTED IN DRY LOCATIONS MAY BE 4 X 2 SIZE PROVIDING NOT MORE THAN IF YE WRISE SWITE.

11. WINNE OF DEVICES: CONVENIENCE RECEPTACLES, HUBBELL OR APPROVED EQUAL, 15 AMPS, 125 VOLT GROUNDING TYPE WITH HORY, PLASTIC PLATE N FINISHED AREAS, PROVIDE WEATHER PROOF RECEPTACLE OUTLET FOR EXTERNOR LOCATIONS. CLOCK RECEPTACLES SHALL BE HUBBELL COMPLETE WITH HORY PLASTIC PLATE SWITCHES SHALL BE HUBBELL SOMPLETE WITH HORY PLASTIC PLATE. SWITCHES SHALL BE HUBBELL SOMPLETE WITH HORY SINGLEF-OLE: ON APPROVED EQUAL WHEREE PHONE WALL OUTLETS SHALL BE GOUIPPED WITH ONE-HOLE WALL PLATES TO MATCH RECEPTACLES.

12. WIRE AND CABLE: CONDUCTORS SHALL BE SOFT DRAWN COPPER, WITH THIMN-2 INSULATION, NM CABL SHALL BE #12 AWG MINIMUM EXCEPT LOW-VOLTAGE CONTROL WIRE MAY BE #16 PLASTIC INSULATED.

13. PANELBOARDS: PANELBOARD SHALL BE WITH LOAD CENTER TYPE; FLUL SIZE BREAKERS AND SPACES AS MIDICATED ON THE DRAWINGS, EQUAL TO SQUARE D. FRONT OF CABINETS SHALL BE FLUSH OR SURFACE MOUNTED AS SHOWN WITH A DRECTORY CARD MEATLY TYPED OR PRINTED WHICH DENTIFIES THE LOADS SERVED. EXTERIOR PANELS SHALL HAVE RAIN-TIGHT ENCLOSURES EQUIPPED WITH LOADS

14. SAFETY SWITCHES: SHALL BE NEMA, GENERAL DUTY, QUICK-MAKE, QUICK-SHEAK. SWITCHES EXPOSED OUTDOORS SHALL HAVE NEMA 3 RAIN-TIGHT ENCLOSURES.

15. FUSES: SHALL BE BUSSMAN FUSETRON, DUAL-ELEMENT AND LOW-PEAK TYPES OR TYPE INDICATED ON DRAWINGS. PROVIDE 3 SPARE FUSES OF EACH TYPE AND RATING USED TO THE OWNER AS SPARES.

16. LIGHTING FIXTURES: PROVIDE FIXTURES COMPLETE WITH LAMPS AS INDICATED ON DRAWINGS AND WITH PROPER TRIM AND SUPPORT BRACKETS.

17. MOTOR AND CONTROL WIRING: WIRE TO AND CONNECT MOTORS AND CONTROLS INDICATED ON THE DRAWINGS NOT PRE-WIRED BY THE SUPPLIER OF THE EQUIPMENT.

LEGIBLE DRAWINGS ON COMPLETION OF THE WORK.

9. GUARANTEE THE CONTRACTOR SHALL GUARANTEE
ALL MATERIAL FLURISHES BY HIM AND ALL WORKMANSHIP
NUMER THIS CONTRACT FOR A PERIOD OF ONE YEAR
FROM THE DATE OF FINAL ACCEPTANCE OF WORK UNDER
HIS CONTRACT, ANY DEFECTS DEVELOPED WITHIN THIS
PERIOD TRACEABLE TO MATERIAL FLURISHED AS A PART
OF THIS CONTRACT OR WORKMANHIP PERFORMED AS A
COMPRACTORS EXPENSEE. THIS CONTRACTOR SHALL SE
MODE GOOD PROMPTLY AT THIS
CONTRACTORS EXPENSEE. THIS CONTRACTOR SHALL
SE
FROM SHOULD SHALL SH

REPLACING DEFECTIVE MATERIAL

EXISTING PANEL

VOLTS 480Y/277V 3P 4W

 LOAD KVA
 CKT
 CKT
 CKT

 A
 B
 C
 #
 BKR
 CIRCUIT DESCRIPTION

MOTORS

AIC 25,000

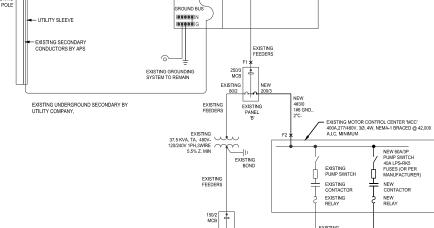
LUGS STANDARD

TOTAL CONNECTED KVA BY PHASE 53.9

CONN KVA CALC KVA

LOAD KVA A B C

—EXISTING SERVICE ENTRANCE S 400A, 277/480V, 3Ø, 4W, NEMA-3I @ 42,000 A.I.C. MINIMUM . EXISTING POLE MOUNTED EXISTING CT METERING COMPARTMENT 277/480V-3Ø-4W APS POLE DUND BUS LITHITY SLEEVE



EXISTING NEW 3#1, 1#3 GND., IN 3°C. 1 ONE LINE DIAGRAM NEW FLAT SUBMERSIBLE 600V NOTES:

1. ALL EQUIPMENT IS EXISTING TO REMAIN U.N.O. AND SHOWN FOR REFERENCE ONLY. ϕ NEW WELL PUMP#2 20HP,27 FLA, 460V

ONE LINE GENERAL NOTES:

- A. SWITCHBOARD COMPONENTS, INCLUDING OVERCURRENT PROTECTIVE DEVICES SHALL BE FULLY RATED FOR THE AVAILABLE FAULT CURRENT SHOWN.
- B. PROVIDE ARC FLASH AND SHOCK HAZARD WARNING IDENTIFICATION PER NEC ARTICLE 110.16

PANEL SCHEDULES GENERAL NOTES:

- A. A.I.C. RATING SHOWN ON PANEL SCHEDULES ARE THE MINIMUM RATING FOR NEW AND REPLACEMENT OVERCURRENT PROTECTIVE DEVICES. EACH DEVICE SHALL BE FULLY RATED AT AFC AS SHOWN ON ONE-LINE DIAGRAM.
- B. PER NEC 408.4 (A) ALL PANEL BOARDS SHALL HAVE A TYPE WRITTEN DIRECTORY IDENTIFYING EACH NUMBERED CIRCUIT PLACED IN A DIRECTORY HOLDER INSIDE THE DOOR.
- C. THE CONTRACTOR SHALL PERMANENTLY MARK WITH PERMANENT MARKER THE CIRCUIT IDENTIFICATIONS ON THE COVERPLATES OF RECEPTACLES, EQUIPMENT AND LIGHTING JUNCTION BOXES, ISTICK ON LABBLES NOT ACCEPTABLE)
- D. PER NEC 210.4(B) ALL MULTIWIRE BRANCH CIRCUITS ARE TO BE PROVIDED WITH A DEVICE THAT WILL DISCONNECT POWER TO ALL UNGROUNDED CONDUCTORS SIMULTANEOUSLY AT THE POINT OF ORIGIN.

CONTRACTOR NOTE:

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID. ANY CHANGES REQUIRED DUE TO INCORRECT EXISTING INFORMATION WILL BE THE CONTRACTORS RESPONSIBILITY.

○ ONE LINE KEYED NOTES

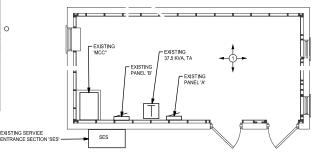
PROVIDE IN GROUND PULL BOX LOCATED AT NEW WELL FOR PUMP POWER.

SES LOAD CALCULATIONS EXISTING PANEL B = 179 AMPS TOTAL LOAD = 179 AMPS

MCC LOAD CALC	ULATIONS
EXISTING WELL PUMP#1	= 97 AMPS
NEW WELL PUMP#2	= 27 AMPS
TOTAL LOAD	= 124 AMPS

Project: 2448 MNW Ash Fork Well No.3 Ash fork, AZ Location: Yavapai County, Arizona VOLTAGE DROP CALCULATIONS Electrical Design Services, LLC 09/26/2024 Feeder Data Conduit Length Type Size #Parallel System Phases Voltage Freq. PF I (Amps) Voltage Drup.

	FAULT CURRENT SCHEDULE														
	DEVICE	FAULT	AIC RATING	L-L VOLTS	L-N VOLTS	UTILITY					MOTOR FAULT	DIRECTLY CONNECTED MOTOR LOAD			
						FAULT	DEVICE	FAULT	SIZE	X / 1000'	R / 1000'	LENGTH	PAULI	MOTOR	LUAD
														KVA	FAULT
	SES	21,445	42,000	480V	277V	20,938			#600kcmil	0.039	0.023		507		
F1	В	20,667	25,000	480V	277V	20,160	SES	20,938	#250kcmil	0.041	0.052	10'	507		
F2	MCC	20,242	42,000	480V	277V	19,735	В	20,160	#3/0	0.042	0.077	5'	507	105	507



POWER GENERAL NOTES

- A ALL EXTERIOR DISCONNECTS SHALL BE W.P. TYPE
- B. ALL RECEPTACLES WITHIN 6'-0" OF A SINK TO BE GFCI RATED.
- ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL CONNECTION REQUIREMENTS (IPP. AMPS. VOLTAGE, PHASE. MOUNTING HEIGHT, AND DISCONNECTING NEANS) FOR ALL EQUIPMENT SUPPLIED BY OTHERS BEFORE ROUGHAN DISCONNECT SWITCHES SHALL BE
- D. ALL EXTERIOR RECEPTACLES SHALL BE W.P./GFCI TYPE.
- E. ALL ELECTRICAL PANEL BOARDS SHALL MAINTAIN 3"-0" INFRONT WORKING CLEARANCE REFER TO ONE-LINE FOR DETAILS.

KEYED NOTES

ALL EXISTING RECEPTACLES, ELECTRICAL DEVICES, LIGHTING AND LIGHTING CONTROLS IN THIS AREA ARE EXISTING TO REMAIN. MAINTAIN CIRCUIT CONTINUITY TO DEVICES AND ASSOCIATED CONTROLS.

9/29/24

DATE: 29/SEP/24 SCALE: E2.0

SHEET 2

L TO CONSTRUCT
RK WELL NO. 3
8 #44093040
MNENT ASSOCIAT
COUNTY, ARIZONA

JEWORLE glacering Progress

MATRIX RESESTE

Tel:

PANELBOARDS KEYED NOTES

PANELBOARD SYMBOLS EXISTING BREAKER

 ELECTRICAL CONTRACTOR SHALL REPLACE EXISTING 25A/3P BREAKER WITH NEW 200A/3P BREAKER, ATCHING EXISTING AIC RATING, TO FEED EXISTING

EXISTING BUILDING ENLARGED POWER PLAN