



Proposal

Date: 10/8/2025

To: City North Richland Hills
ATTN: Michael Wilson

Item:

Installation of new pump room design. See attached drawing.

Cost Breakdown:

NRH2O Pump Room Changes					
WBS	Description	QTY	UoM	Price Per	Total Costs
Plumbing	Plumbing pipe changes per MR-2 on 4 Pumps	LS		\$ -	\$ 259,908.82
	Relocate 75HP Pump to Track 1 Booster 2				
	Relocate 75HP Pump to Track 2 Booster 2				
	F&I Grundfos 125 HP Pump to Track 1 Booster 1				
	F&I Grundfos 125 HP Pump to Track 2 Booster 1				
Electrical	Titan Check Valves - 4				
	Rewire Switchgear and Pumps as Required per MR-2	LS			\$ 125,544.23
	F&I 2 125 HP VFD				
	Relocate 75HP VFD's per MR-2				
	F&I Breakers for 2 125 HP Motors				
	F&I New Conduit and Wire from Switchgear to 125 HP VFD's and 75 HP VFD's				
	F&I New Conduit and Wire from VFD's Mentioned Above to Motors				
Demo GC's	Programming of VFD's to Parameters Provided on MR-2				
	2 30HP and VFDs Pumps from Pump Room	LS			INCLUDED
	Bonding				\$ 6,809.44
	GL Insurance				\$ 3,191.00
	OCP & Builders Risk Insurance				\$ 1,695.00
	Temp Toilet				\$ 525.00
	PM Labor				\$ 3,848.80
	Super Labor				\$ 7,306.73
	Fuel				\$ 426.00
	Dumpster (2)				\$ 3,000.00
				Overhead (5%)	\$ 20,547.25
				Profit (5%)	\$ 20,547.25
				Total	\$ 453,349.52

Total..... \$453,349.52

Austin Dyer – Vice President

CGC General Contractors, Inc.
3212 Friendly Lane, Haltom City, Tx 76117
Phone: 682 730-6933



To: **CGC General Contractors**
Project: **NRH20**
Project Address: **9001 BLVD 26 North Richland Hills, TX 76180**

Date: *October 06, 2025*

Change Order Request # 005 REV 1

inCon-trol Water Systems is pleased to provide the following change order for the NRH20 project at 9001 BLVD 26 North Richland Hills, TX 76180

Change Order Scope of Work:

- Install plumbing per revised drawing MR-2 on 4 pumps
 - Relocate 75HP Pump to Track#1 Booster#2
 - Relocate 75HP Pump to Track#2 Booster#2
 - Furnish & Install(F&I) Grundfos 125HP Pump to Track#1 Booster#1
 - Furnish & Install Grundfos 125HP Pump to Track#2 Booster#1
 - Check valves should be installed in mechanical space as there is a drain line on the manifold to allow for winterization. Installing the check valves in the baffle tank area as indicated on the plan will require each check valve to be removed for winterization/drainage of the associated discharge line.
 - **Titan CV90-DI with NSF rated coating Check valves included in lieu of Flomatic(not manufactured in 12")**
- Rewire Switchgear and pumps as required per revised layout drawing MR-2
 - F&I 2 EA 125 HP Variable Frequency Drive(VFD)
 - Relocate 75HP VFDs as indicated on MR-2
 - F&I breakers for 2 EA 125HP Motors
 - F&I new conduit and wire from switchgear to 2 EA 125HP VFDs and 2 EA 75HP VFDs
 - F&I new conduit and wire from VFDs mentioned above to corresponding motors
 - 1 day programming of VFDs to parameters provided on MR-2
- Remove (2) 30HP pumps from pump room (location designated by ownership).
- Permits excluded.

Plumbing Sub-Total:\$259,908.82

Electrical Sub-Total:\$125,544.23

TOTAL: \$385,453.05

inCon-trol Construction, LLC:

Name: Chris Yonts
Signature: _____
Title: Project Manager
Date: October 06, 2025

Customer:

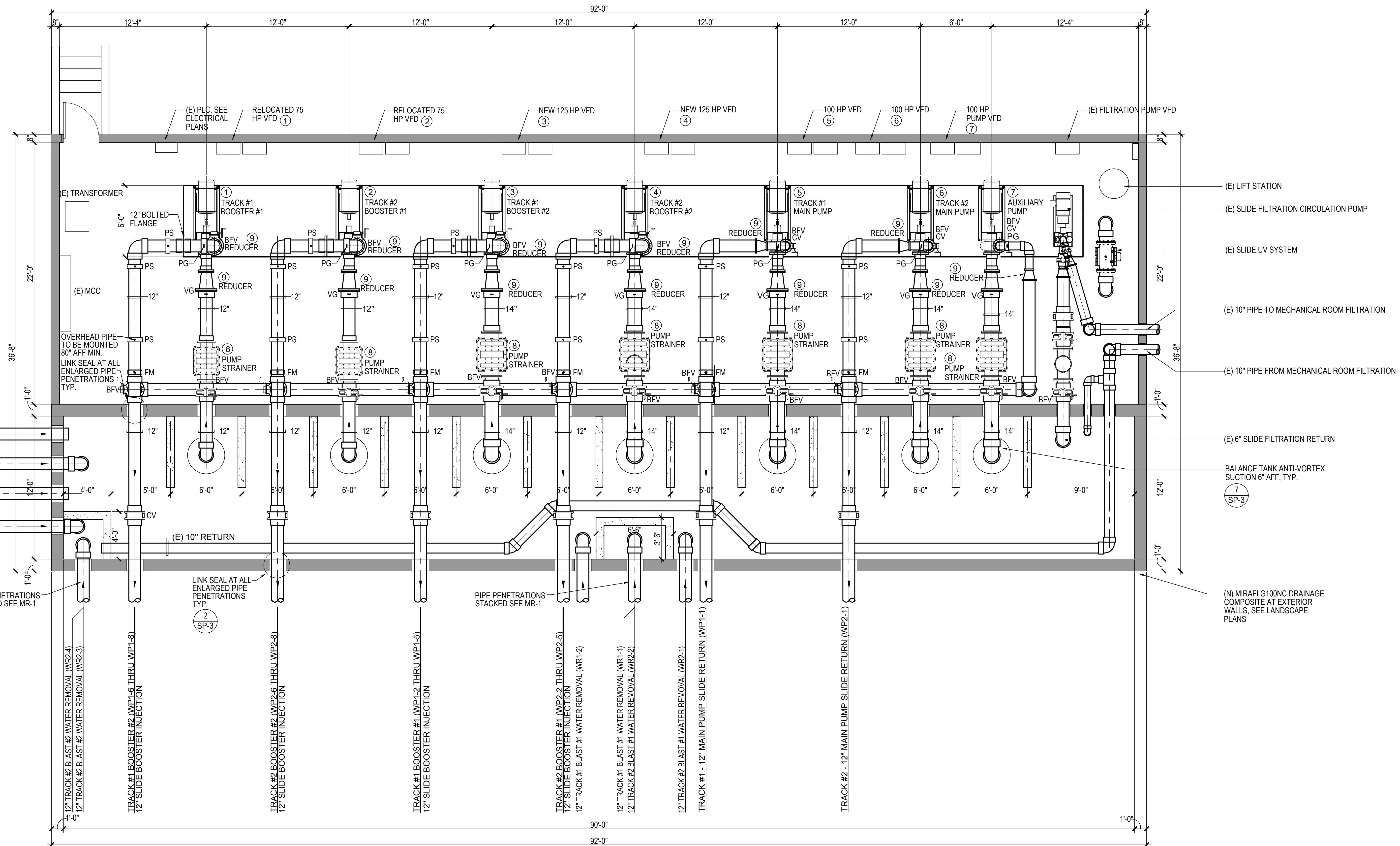
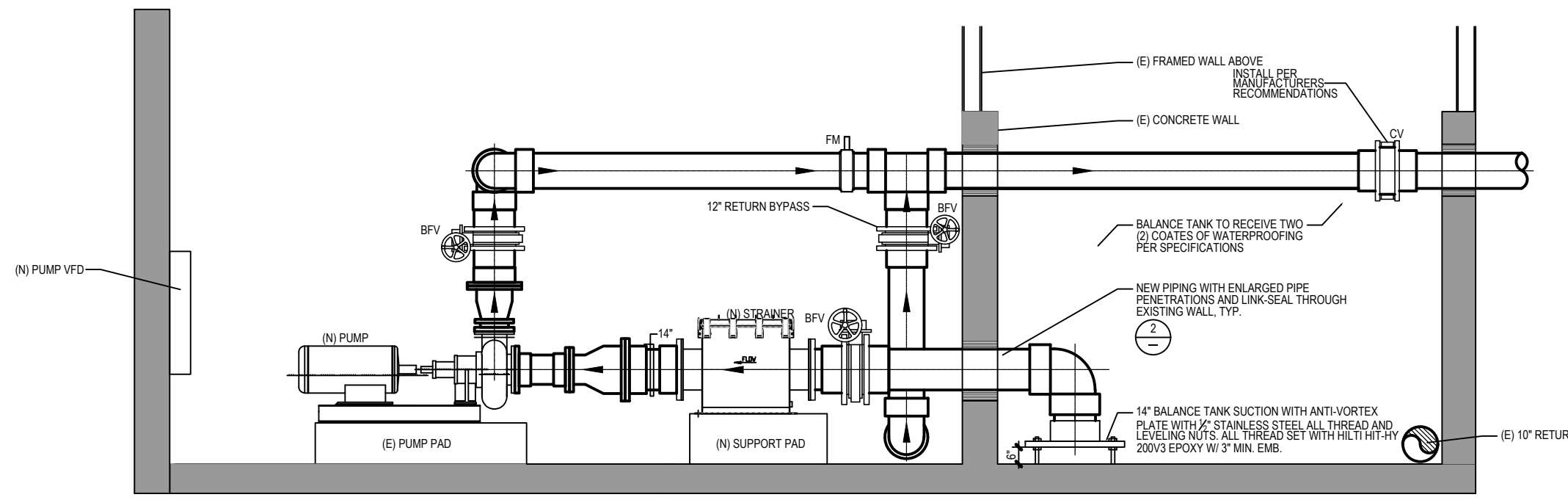
Name: _____
Signature: _____
Title: _____
Date: _____

410 Interchange, McKinney, TX 75071

tel 214.733.8828 • fax 214.544.9555

www.incontrolwatersystems.com

Initial: Customer _____ inCon-trol Construction, LLC _____



GENERAL NOTES

1. THE PIPING SYSTEM SHALL HAVE DIRECTION OF FLOW ARROWS INDICATED ON THE PIPES.
2. PUBLIC POOLS SHALL HAVE A FLOW DIAGRAM OF THE POOL'S PIPING SYSTEM WITH OPERATION INSTRUCTIONS.
3. THE FLOW DIAGRAM AND INSTRUCTIONS SHALL BE AVAILABLE ON THE PREMISES AT ALL TIME.
4. ALL MECHANICAL ROOM FLOORS SHALL BE SLOPED A MIN 1" PER FOOT TO A DRAIN PER CBC 31229. SEE ARCHITECTURAL SHEETS FOR SPOT ELEVATIONS AND SLOPES.
5. ALL BELOW GRADE POOL PIPING SHALL BE SCHEDULE 40 PVC AND ALL ABOVE GRADE POOL PIPING SHALL BE SCHEDULE 80 PVC.

LEGEND

FM = FLOWMETER
PG/VG = VACUUM / PRESSURE GAUGE
PS = PIPE SUPPORT
BFV = BUTTERFLY VALVE
CV = CHECK VALVE

EQUIPMENT LIST

1. TRACK #1 BOOSTER PUMP #2: 'PACO' #8012-3, TYPE 'LF' SPLIT-CASE END SUCTION PUMP, 1780 RPM, 460V, 3PH, 75HP, RATED AT 1,800 GPM @ 93 FT. TDH, 84% EFFICIENT, PREMIUM EFFICIENCY TEFC MOTOR, EPOXY COAT ALL WET SURFACES, 'PACO', 'AURORA' OR EQUAL, ONE (1) TOTAL. PROVIDE WITH PENTAIR ACCUDRIVE #AD750X-4603-N4X VARIABLE SPEED DRIVE, ONE (1) TOTAL; 25.6" x 9.5" x 10.3" DEEP. COORDINATE MOUNTING LOCATION TO MAINTAIN REQUIRED CLEARANCES, 460V 3PH.
2. TRACK #2 BOOSTER PUMP #2: 'PACO' #8012-3, TYPE 'LF' SPLIT-CASE END SUCTION PUMP, 1780 RPM, 460V, 3PH, 75HP, RATED AT 1,800 GPM @ 93 FT. TDH, 84% EFFICIENT, PREMIUM EFFICIENCY TEFC MOTOR, EPOXY COAT ALL WET SURFACES, 'PACO', 'AURORA' OR EQUAL, ONE (1) TOTAL. PROVIDE WITH PENTAIR ACCUDRIVE #AD750X-4603-N4X VARIABLE SPEED DRIVE, ONE (1) TOTAL; 25.6" x 9.5" x 10.3" DEEP. COORDINATE MOUNTING LOCATION TO MAINTAIN REQUIRED CLEARANCES, 460V 3PH.
3. TRACK #1 BOOSTER PUMP #1: 'PACO' #8012-3, TYPE 'LF' SPLIT-CASE END SUCTION PUMP, 1780 RPM, 460V, 3PH, 125HP, RATED AT 2,300 GPM @ 138 FT. TDH, 85% EFFICIENT, PREMIUM EFFICIENCY TEFC MOTOR, EPOXY COAT ALL WET SURFACES, 'PACO', 'AURORA' OR EQUAL, ONE (1) TOTAL. PROVIDE WITH ACCUDRIVE #AD1250X-4603-N4X VARIABLE SPEED DRIVE MODEL, ONE (1) TOTAL; 25.6" x 9.5" x 10.3" DEEP. COORDINATE MOUNTING LOCATION TO MAINTAIN REQUIRED CLEARANCES, 460V 3PH.
4. TRACK #2 BOOSTER PUMP #1: 'PACO' #8012-3, TYPE 'LF' SPLIT-CASE END SUCTION PUMP, 1780 RPM, 460V, 3PH, 125HP, RATED AT 2,300 GPM @ 138 FT. TDH, 85% EFFICIENT, PREMIUM EFFICIENCY TEFC MOTOR, EPOXY COAT ALL WET SURFACES, 'PACO', 'AURORA' OR EQUAL, ONE (1) TOTAL. PROVIDE WITH ACCUDRIVE #AD125X-4603-N4X VARIABLE SPEED DRIVE MODEL, ONE (1) TOTAL; 25.6" x 9.5" x 10.3" DEEP. COORDINATE MOUNTING LOCATION TO MAINTAIN REQUIRED CLEARANCES, 460V 3PH.
5. TRACK #1 MAIN PUMP: 'PACO' #8012-3, TYPE 'LF' SPLIT-CASE END SUCTION PUMP, 1780 RPM, 460V, 3PH, 100HP, RATED AT 2,300 GPM @ 112 FT. TDH, 84% EFFICIENT, PREMIUM EFFICIENCY TEFC MOTOR, EPOXY COAT ALL WET SURFACES, 'PACO', 'AURORA' OR EQUAL, ONE (1) TOTAL. PROVIDE WITH PENTAIR ACCUDRIVE #ADC10X-4603-N4X VARIABLE SPEED DRIVE, ONE (1) TOTAL; 25.6" x 9.5" x 10.3" DEEP. COORDINATE MOUNTING LOCATION TO MAINTAIN REQUIRED CLEARANCES, 460V 3PH.
6. TRACK #2 MAIN PUMP: 'PACO' #8012-3, TYPE 'LF' SPLIT-CASE END SUCTION PUMP, 1780 RPM, 460V, 3PH, 100HP, RATED AT 2,300 GPM @ 112 FT. TDH, 84% EFFICIENT, PREMIUM EFFICIENCY TEFC MOTOR, EPOXY COAT ALL WET SURFACES, 'PACO', 'AURORA' OR EQUAL, ONE (1) TOTAL. PROVIDE WITH PENTAIR ACCUDRIVE #ADC10X-4603-N4X VARIABLE SPEED DRIVE, ONE (1) TOTAL; 25.6" x 9.5" x 10.3" DEEP. COORDINATE MOUNTING LOCATION TO MAINTAIN REQUIRED CLEARANCES, 460V 3PH.
7. AUXILIARY PUMP: 'PACO' #8012-3, TYPE 'LF' SPLIT-CASE END SUCTION PUMP, 1780 RPM, 460V, 3PH, 100HP, RATED AT 2,300 GPM @ 112 FT. TDH, 84% EFFICIENT, PREMIUM EFFICIENCY TEFC MOTOR, EPOXY COAT ALL WET SURFACES, 'PACO', 'AURORA' OR EQUAL, ONE (1) TOTAL. PROVIDE WITH PENTAIR ACCUDRIVE #ADC10X-4603-N4X VARIABLE SPEED DRIVE, ONE (1) TOTAL; 25.6" x 9.5" x 10.3" DEEP. COORDINATE MOUNTING LOCATION TO MAINTAIN REQUIRED CLEARANCES, 460V 3PH.
8. SLIDE PUMP STRAINERS: EVOQUA 'PRO-STRAINER' STAINLESS STEEL STRAINERS: #P41414SC, FIVE (5) TOTAL, #P31212SC, TWO (2) TOTAL, EACH STRAINER SHALL BE PROVIDED WITH TWO (2) SETS OF STAINLESS STEEL STRAINER BASKETS AND CONCRETE HOUSEKEEPING PAD.
9. REDUCER: 14"x10" SCH 80 PVC CONCENTRIC REDUCER WITH FLANGED CONNECTIONS, FIVE (5) TOTAL, 12"x10" PVC CONCENTRIC REDUCER WITH FLANGED CONNECTIONS, TWO (2) TOTAL, 8"x12" SCH 80 PVC CONCENTRIC REDUCER WITH FLANGED CONNECTIONS, FIVE (5) TOTAL.

NRH

CITY OF NORTH
RICHLAND HILLS

AQUATIC
DESIGN GROUP

2226 Faraday Ave. Carlsbad, CA 92008
AquaticDesignGroup.com
760.438.8400

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PROJECT INFORMATION
NRH20 SLIDE REPLACEMENT

NORTH RICHLAND HILLS, TEXAS

REVISIONS

NO.	DATE	DESCRIPTION
Δ1	8-20-25	PUMP/PLUMBING MODIFICATIONS

LOGO

SEAL

DRAWING TITLE

**MECHANICAL
ROOM ADG /
OWNER
REVISION
PROPOSAL**

PROJECT NO.	2022.162
DRAWN BY	KK
CHECKED BY	AP
DATE	05/03/2024
DRAWING NO.	

MR-2



MECHANICAL ROOM PLAN

1/4" = 1'-0"



1