

#### **ADDENDUM NO. 1**

Date: 4/14/2021

Project Name: Addison Kellway Lift Station By-Pass Improvements

Owner: Town of Addison

Owner Project No.: 2021-03C

Owner Bid No.: Public Works and Engineering Department Bid #21-53

Garver Project No. 20W05015

This addendum shall be a part of the Plans, Contract Documents and Specifications to the same extent as though it were originally included therein, and it shall supersede anything contained in the Plans, Contract Documents, and Specifications with which it might conflict. This addendum, including all attachments, shall become part of the Contract and all provisions of the Contract shall apply thereto. The time provided for completion of the Contract has not been changed as noted in this addendum. Acknowledgement of receipt of this addendum must be noted in the appropriate section of the Bid Form and included with the Contract Documents.

### A. FRONT ENDS - Volume 1

1. No items for Front Ends are included in this addendum.

#### B. SPECIFICATIONS - Volume 2

- 1. Remove the following specifications sections in their entirety, and replace with the same, attached hereto:
  - a. 01 14 00 Work Restrictions

#### C. DRAWINGS - Volume 3

- 1. Remove the following drawings in their entirety, and replace with the same, attached hereto:
  - a. 10-M101 Lift Station Lower Floor Plan
  - b. 10-M301 Section I
  - c. 10-M302 Section II

By:

Lance Klement, P.E. Project Manager

### Attachments:

- A. Specifications
  - 1. 01 14 00 Work Restrictions
- B. Drawings
  - 1. 10-M101 Lift Station Lower Floor Plan
  - 2. 10-M301 Section I
  - 3. 10-M302 Section II

LANCE P. KLEMENT

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END OF ADDENDUM NO. 1

#### SECTION 01 14 00 - WORK RESTRICTIONS

#### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Section includes description and requirements of:
  - 1. General constraints for sequencing and scheduling the Work.
  - 2. Interruption of lift station operations
  - 3. Work affected by existing site and facility.
  - 4. Work restrictions and coordination between construction operations and plant operations, including:
    - a. Access to site
    - b. Use of site and premises.
    - c. Utilities.
    - d. Work by Others.
    - e. Work Sequence.
    - f. Temporary Services, Materials and Equipment.

#### B. Related sections:

- 1. Section 01 11 00 Summary of Work.
- 2. Section 01 26 00 Contract Modification Procedures.
- 3. Section 01 50 00 Temporary Facilities and Controls.

#### 1.2 GENERAL CONSTRAINTS ON SEQUENCE AND SCHEDULING OF WORK

#### A. Water Projects:

- 1. The existing Kellway Lift Station for the Town of Addison is an important facility in the process of pumping wastewater for the Town. Impairing the operational capabilities of this facility will result in serious financial damage to the Town.
- 2. Conduct work in a manner that will not impair the operational capabilities of essential elements or reduce the capacity of the pump station.
- 3. The status of the lift station shall be defined as "operational" during construction when the bypass connection is installed and existing pumping capacity is restored via bypass pumping.

#### B. Work Sequence and Constraints:

1. Utilize description of critical events in work sequence in this Section as a guideline for scheduling and undertaking the Work.

 Work sequence and constraints presented do not include all items affecting completion of the Work, but are intended to describe critical events necessary to minimize disruption of the existing facilities and to ensure compliance to the water quality standards as mandated by the Texas Department of Health.

#### 1.3 INTERRUPTION OF FACILITY PROCESSES

- A. Execute the Work while the existing facility is in operation.
- B. Indicate required shutdowns of existing facilities or interruptions of existing operations on Progress Schedule. Shutdowns will be permitted to the extent that existing operation will not be jeopardized and identified constraints are satisfied.
- C. Submit written notification of required shutdowns of existing facilities at least 14 days prior to the planned date of shutdown.
- D. The ENGINEER and the Facility Personnel will evaluate the request based on the lift station's ability to reliably meet capacity demands.
- E. Do not begin alterations until ENGINEER's written permission has been received.
- F. Minimize shutdown times by thorough advanced planning. Have required equipment, materials, and labor on hand at time of shutdown.
- G. Where required to minimize process interruptions while complying with specified sequencing constraints, provide temporary pumping, power, lighting, controls, instrumentation, and safety devices.

# 1.4 REQUIREMENTS FOR OPERATION OF LIFT STATION AND MAINTAINING CONTINUOUS OPERATION OF EXISTING FACILITIES

- A. Facilities or conditions required to keep the existing lift station operational include, but are not limited to, the following:
  - 1. Electrical power, including transformers, distribution wiring, and motor control centers.
  - 2. Piping for conveyance of potable water.
  - All existing pumps.
  - 4. Fencing and gates.
  - 5. Lighting.
  - 6. Heating, ventilation, and air conditioning equipment.
  - 7. Instrumentation, meters, controls, and telemetry equipment.
  - 8. Safety equipment and features.
  - 9. Parking for City employees and vehicles required for operation and maintenance of the existing pump stations.
  - 10. Telephone system.
  - 11. Storm drainage.

- 12. Other incidentals necessary to continually operate the facilities.
- B. Conduct the Work and provide temporary facilities required to keep the existing plant continuously operational.
- C. Do not remove or demolish existing facilities required to keep the existing lift station operational at the capacities specified until the existing facilities are replaced by temporary or new facilities equipment. The replacement facilities shall have been tested and demonstrated to be operational prior to removing or demolishing existing facilities.

#### 1.5 OPERATIONS AND MAINTENANCE ACCESS

A. Provide safe, continuous access to process control equipment for plant operations personnel.

### 1.6 SHUTDOWN CONSTRAINTS

- A. Comply with Shutdown Constraints as described in Section 01 31 00, PROJECT MANAGEMENT AND COORDINATION, and described in General Terms as Follows:
  - 1. Provide 14 days advance notice to Engineer and Owner of need for a minor shutdown.
  - 2. Provide 30 days advance notice to Engineer and Owner of need for a major shutdown.
  - 3. Shutdowns will be allowed, but will be limited to low demand periods from 10:00 PM to 5:00 AM.
  - 4. Any shutdowns shall require a shutdown plan, including detailed schedule, backup tools and equipment, personnel involved, contingency plan, and any procedures involved in restarting the facility. Owner's approval of the Shutdown Plan is required prior to any shutdowns.
  - 5. Contractor shall coordinate continuous 24-hour temporary pumping as necessary if the lift station needs to be offline for more than 2 hours during construction.

#### 1.7 BYPASS PUMPING

- A. Provide continuous pumping as needed to bypass the Kellway Lift Station during construction at both low, average, and high flow conditions.
- B. Bypass pumping shall be between the upstream manhole of the lift station to the newly constructed bypass connection.
- C. The bypass pump shall be able to handle average daily flow of 180,000 gpd, peak flows of 3,500 gpm, and pressures between 25 psi and 40 psi.
- D. Site power and the on-site generator shall not be available for use by the bypass pump. Refer to section 01 50 00, TEMPORARY FACILITIES AND CONTROLS.

### 1.8 UTILITIES

A. Provide advance notice to and utilize services of 811 for location and marking of underground utilities operated by utility agencies other than the OWNER. Contact information: Call 811 for marking of utilities.

B. Maintain electrical, telephone, water, gas, sanitary facilities, and other utilities within existing facilities in service. Provide temporary utilities when necessary.

#### 1.9 WORK BY OTHERS

A. Where proper execution of the Work depends upon work by others, inspect and promptly report discrepancies and defects.

#### 1.10 WORK SEQUENCE

- A. The project assumes that all project efforts will be delivered in a concurrent, logical fashion. The following sequences does not detail the integration of all work included in the Contract. The Contractor is responsible to perform all required work and coordinate that work with the continuing appropriate operation of the existing facilities. This possible sequence is included for informational purposes only. It is intended that Construction be performed in multiple phases as follows:
  - 1. The anticipated sequence of events at the lift station is as follows:
    - a. Install lift station bypass connection and temporary bypass pumping.
    - b. Drain and clean the wetwells.
    - c. Complete the following work concurrently.
    - d. Core the wetwells and install new wall pipes, valves, manhole, and manhole connections.
    - e. Install the common suction header, valves, new piping, and third pump, valves, spools, and appurtenances.
    - f. Install new electrical conduit, connections to the control panel, ultrasonic level detection, and stilling wells.

### 1.11 TEMPORARY SERVICES, MATERIALS, AND EQUIPMENT

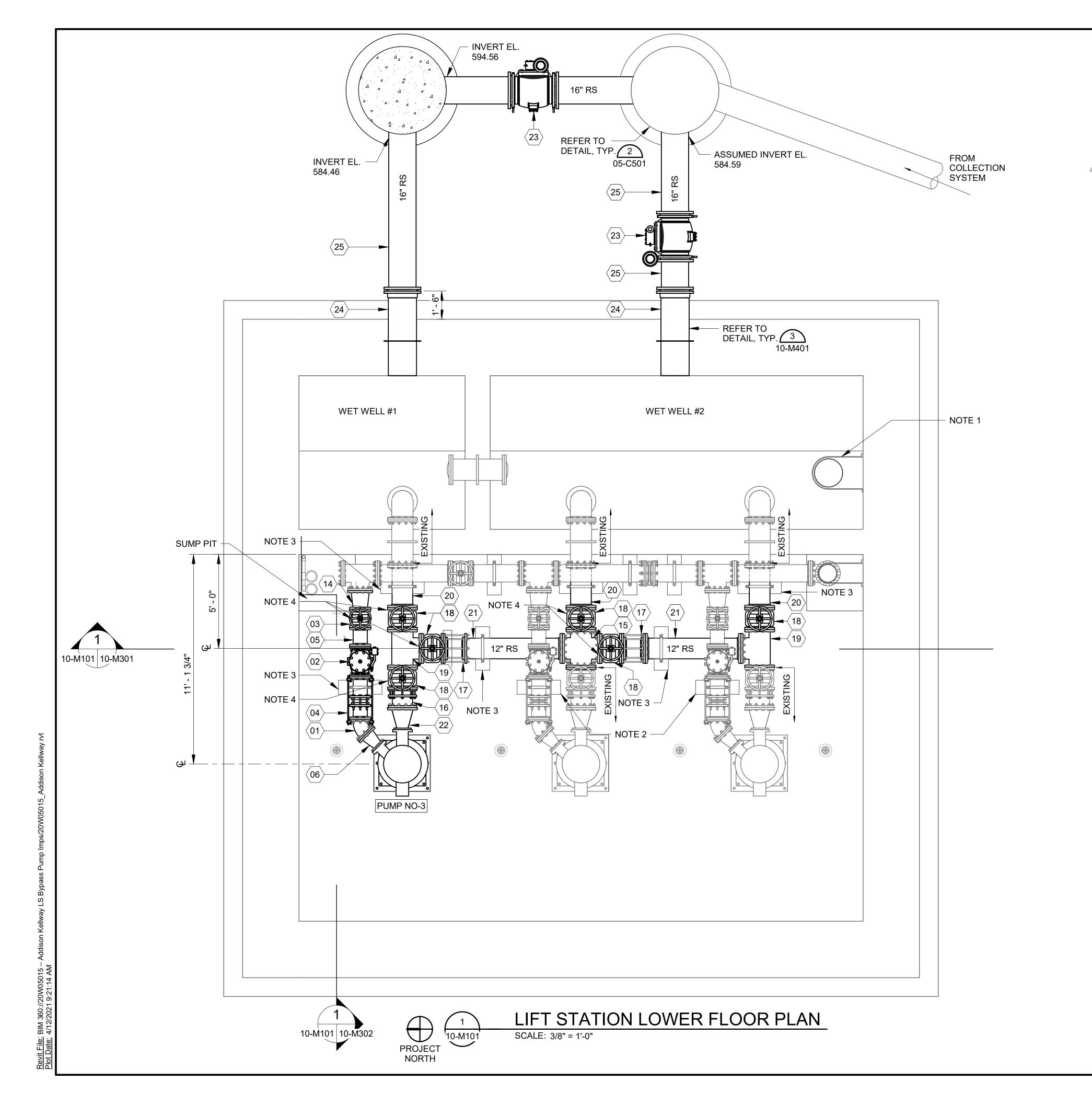
- A. Locate temporary facilities in a manner that minimizes interference to OWNER's operation and maintenance personnel.
- B. Unless otherwise specified, install temporary pipelines of the same size as its connection to the existing facility at the downstream end of the pipeline.
- C. Provide piping of suitable material for the material being conveyed.
- D. Provide submittals on proposed temporary electrical and instrumentation components necessary to maintain existing facilities.
- E. Dewater and promptly clean basins and channels temporarily removed from service.
- F. Dimensions for all existing structures, piping, paving, and other nonstructural items are approximate. The CONTRACTOR shall field verify all dimensions and conditions and report any discrepancies to the ENGINEER a minimum of 14 days in advance of any construction in the area.

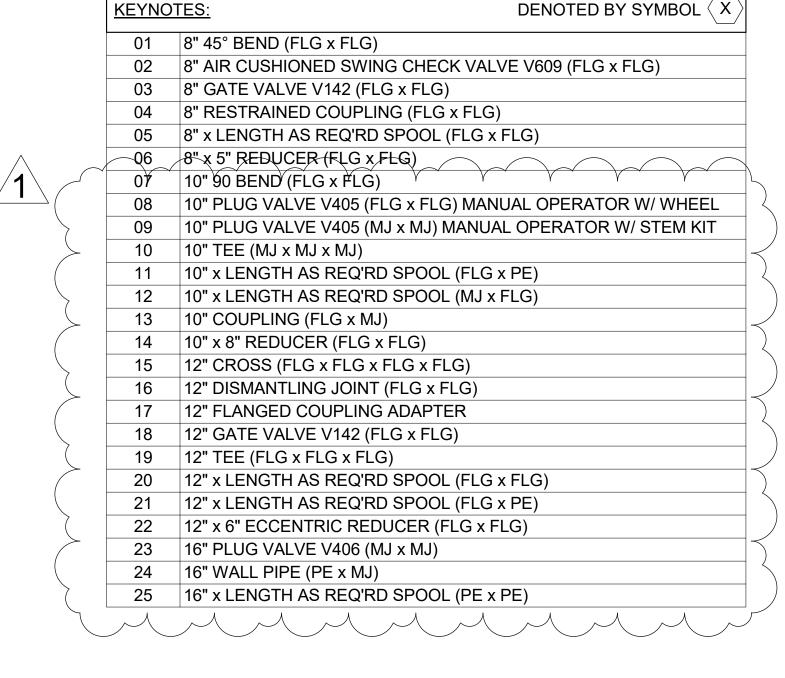
- G. Discrepancies between coordinates, bearings and lengths, and stationing shall be resolved in the following order of precedence:
  - 1. Coordinates.
  - 2. Bearings and lengths.
  - 3. Stationing.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

**END OF SECTION** 





# <u>LEGEND</u>

**EXISTING CONSTRUCTION** 

**NEW CONSTRUCTION** 

# NOTES:

- CONTRACTOR TO CONFIRM WITH OWNER AND ENGINEER WHICH PIPE SUPPORTS TO BE REMOVED. CONTRACTOR TO COORDINATE NEW PIPE SUPPORT AND LOCATION AS SHOWN ON DRAWINGS.
- NEW CONCRETE PIPE SUPPORT. SEE DETAIL
  - ADJUSTABLE PIPE SUPPORT. SEE DETAIL
- 4. CONTRACTOR IS LIABLE FOR CONFINED SPACE ENTRY

# **DEMOLITION NOTES:**

- 1. ELEVATIONS AND DIMENSIONS PROVIDED ARE BASED ON RECORD DRAWINGS AND ARE PROVIDED FOR THE CONTRACTOR'S REFERENCE. CONTRACTOR SHALL CONFIRM ALL ELEVATIONS PRIOR TO BEGINNING WORK, AND OWNER AND ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR VARIANCES BETWEEN DRAWING AND ACTUAL ELEVATIONS. CONTRACTOR IS RESPONSIBLE FOR THE PRE-MEASURING OF EQUIPMENT AND EXISTING OPENINGS PRIOR TO REMOVAL
- CONTRACTOR SHALL RESTORE ALL SURFACE CONCRETE OR SIDEWALKS DAMAGED AS PART OF THE CONSTRUCTION PROCESS AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR TO PROTECT ALL ELECTRICAL WIRING, CONTROL INSTRUMENTS, AND ELECTRICAL APPURTENANCES. DAMAGED ITEMS SHALL BE REPLACED AT NO ADDITIONAL COST TO OWNER
- REMOVE AND DISPOSE OF ALL SOLIDS AND/OR LIQUIDS INCLUDING SLUDGE IN BASINS AND WELLS TO BE DEMOLISHED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE CODES AND REQUIREMENTS FOR SOLIDS REMOVAL AND OFFSITE DISPOSAL AND TO OBTAIN ANY REQUIRED PERMITS. REFER TO SPECIFICATION 02 41 00.
- CONTRACTOR TO REMOVE STILLING WELL AND SUPPORTS. REPAIR CONCRETE AS REQUIRED.



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REGISTRATION NO. F-5713



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| ВУ          | CAT                |  |  |
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| DESCRIPTION | 4/12/21 ADDENDUM 1 |  |  |
| DATE        | 4/12/21            |  |  |
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LIFT STATION LOWER FLOOR PLAN

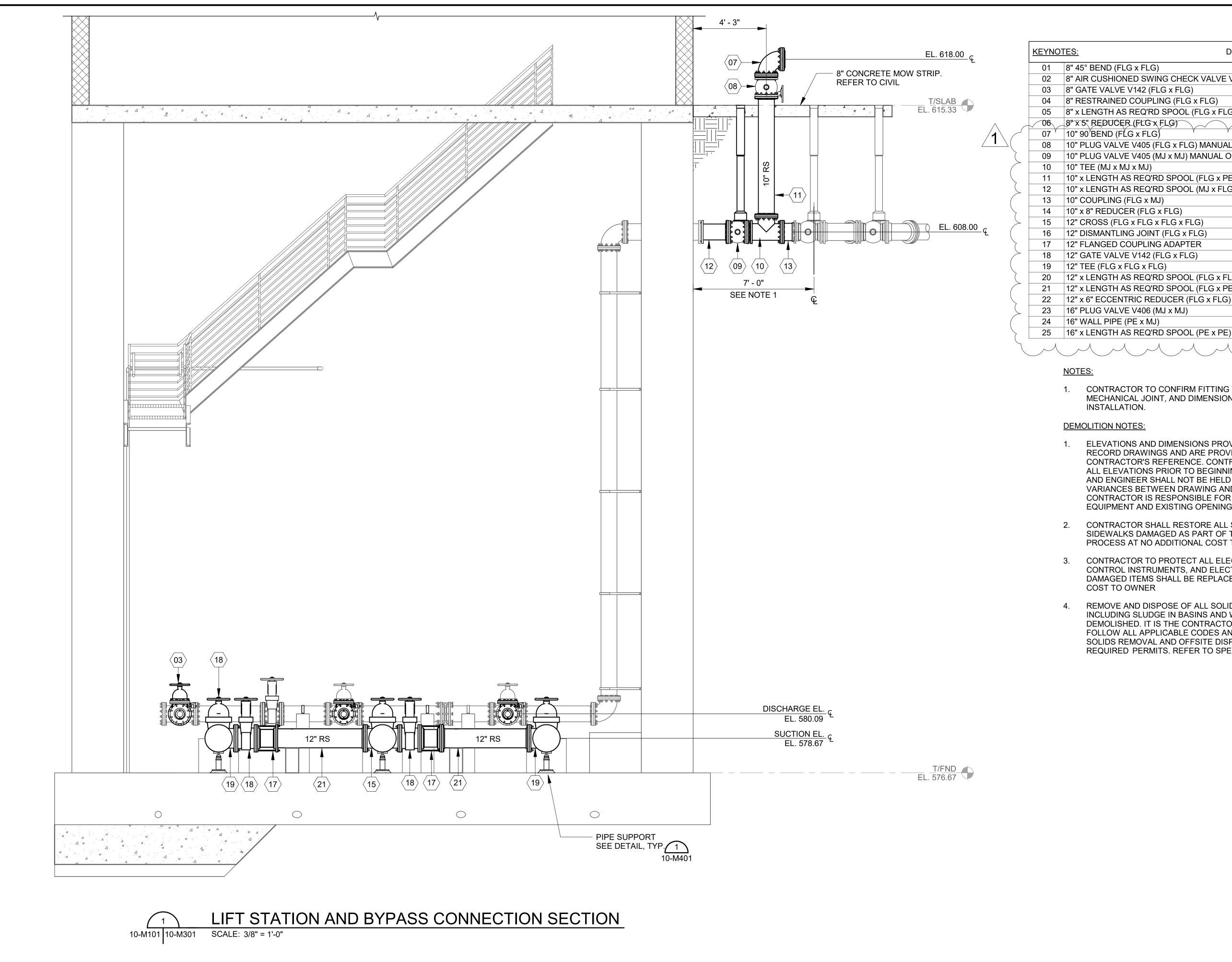
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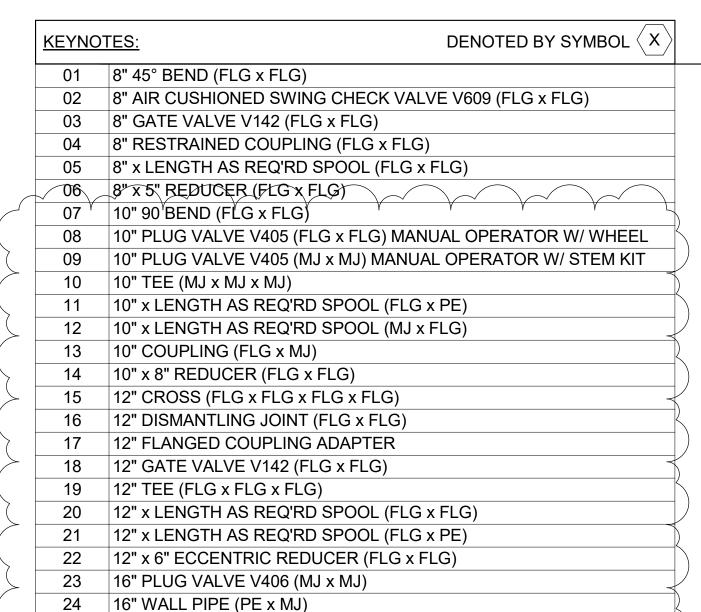
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10-M101

NUMBER 08





CONTRACTOR TO CONFIRM FITTING TYPE, EITHER FLANGE OR MECHANICAL JOINT, AND DIMENSIONS, IN THIS AREA PRIOR TO INSTALLATION.

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**BY-PASS** ST

SECTION I

JOB NO.: 20W05015 DATE: MARCH 2021 DESIGNED BY: CAT DRAWN BY: AEG

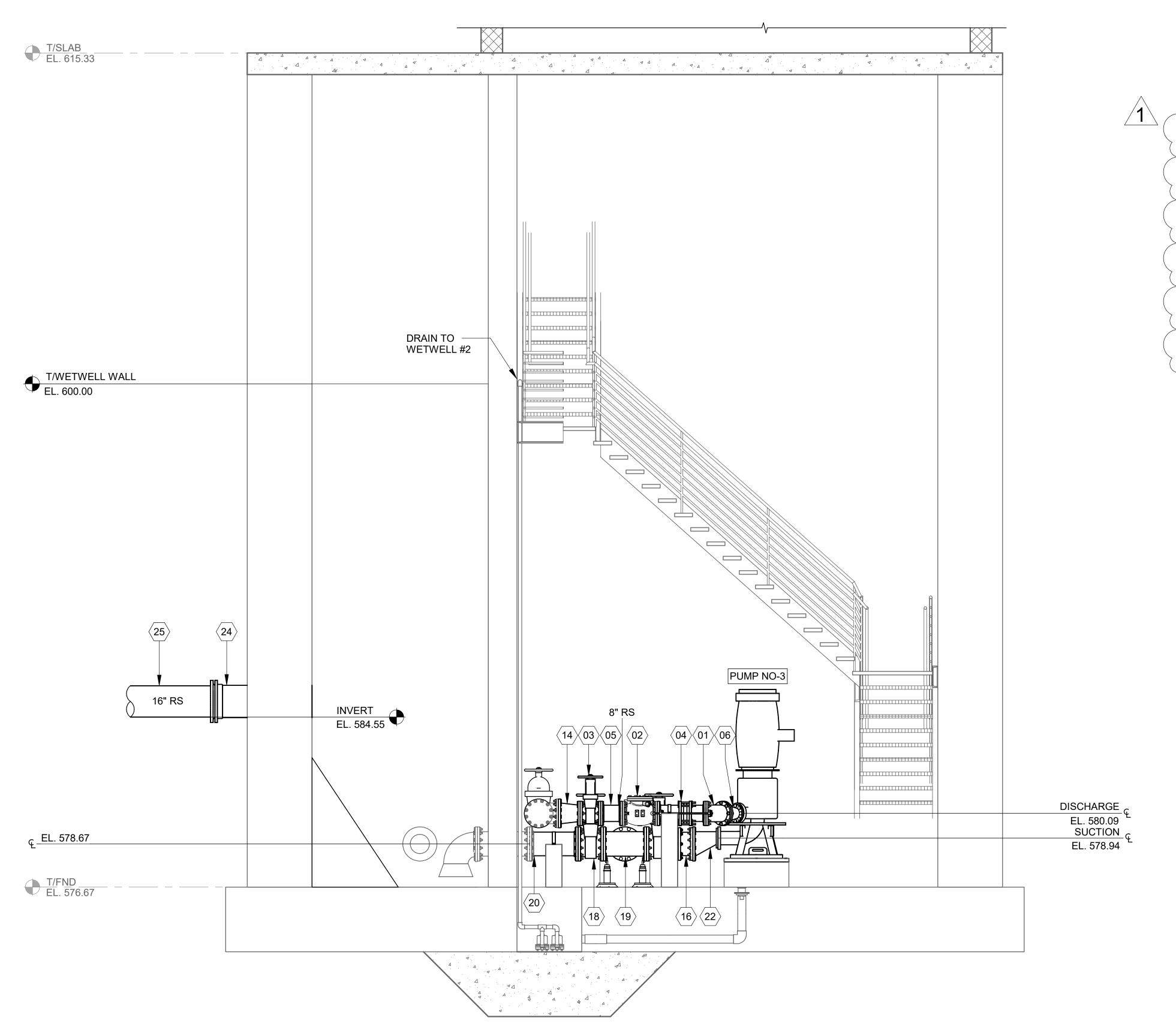
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10-M301

DRAWING NUMBER

SHEET **09** 



**KEYNOTES:** DENOTED BY SYMBOL (X 01 8" 45° BEND (FLG x FLG) 02 8" AIR CUSHIONED SWING CHECK VALVE V609 (FLG x FLG) 03 8" GATE VALVE V142 (FLG x FLG) 04 8" RESTRAINED COUPLING (FLG x FLG) 05 8" x LENGTH AS REQ'RD SPOOL (FLG x FLG) 96 8" x 5" REDUCER (FLG x FLG) 07 10" 90 BEND (FLG x FLG) 08 10" PLUG VALVE V405 (FLG x FLG) MANUAL OPERATOR W/ WHEEL 09 10" PLUG VALVE V405 (MJ x MJ) MANUAL OPERATOR W/ STEM KIT 10 10" TEE (MJ x MJ x MJ) 11 10" x LENGTH AS REQ'RD SPOOL (FLG x PE) 12 10" x LENGTH AS REQ'RD SPOOL (MJ x FLG) 13 10" COUPLING (FLG x MJ) 14 10" x 8" REDUCER (FLG x FLG) 15 12" CROSS (FLG x FLG x FLG x FLG) 16 12" DISMANTLING JOINT (FLG x FLG) 17 | 12" FLANGED COUPLING ADAPTER 18 | 12" GATE VALVE V142 (FLG x FLG) 19 | 12" TEE (FLG x FLG x FLG) 20 12" x LENGTH AS REQ'RD SPOOL (FLG x FLG) 21 12" x LENGTH AS REQ'RD SPOOL (FLG x PE) 22 | 12" x 6" ECCENTRIC REDUCER (FLG x FLG) 23 | 16" PLUG VALVE V406 (MJ x MJ) 24 16" WALL PIPE (PE x MJ) 25 | 16" x LENGTH AS REQ'RD SPOOL (PE x PE)

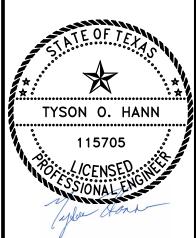
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- CONTRACTOR TO VERIFY FORCE MAIN DISCHARGE ELEVATION.



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BY-PASS ST

SECTION II

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10-M302

10 NUMBER

WETWELL AND LIFT STATION SECTION 10-M101 10-M302 SCALE: 3/8" = 1'-0"