

Document 00900

ADDENDUM NO. 3Date of Addendum: 7-14-26

PROJECT NAME: City of Alamo – TWDB Project No. HB500
Lift Station No. 1 Wastewater Improvements Project

PROJECT NO: 003-2025BID DATE: JULY 16, 2026

FROM: LeFevre Engineering, PLLC.
818 Mansfield Dr. Unit 182
Port Mansfield, Texas 78598

TO: **Prospective Bidders**

This Addendum forms a part of the Bidding Documents and will be incorporated into Contract Documents, as applicable. Insofar as the original Project Manual and Drawings are inconsistent, this Addendum governs. Acknowledge receipt of the Addendum by inserting its number in Document 00310 - Form of Proposal. **FAILURE TO DO SO MAY SUBJECT BIDDER TO DISQUALIFICATION.**

ADDENDUM NO. 3

*******The bid date for this Project has been changed from July 16, 2026 to July 23, 2026. The time and place for bid submittal has remained the same. *******

1. The pump manufacturer/Contractor will be responsible for ensuring the correct size of the wet well pump hatches will be used in relation to the pumps and the wet well size and clearance. Please ensure that the type of materials in specifications are utilized for a corrosive environment. Halliday Hatches or approved equals are sufficient. In addition, safety netting will be required for the hatches as well.
2. There will be additional braces for the guide rails needed for servicing pumps. Contractor will need to ensure from the wet well manufacturer and the pump manufacturer with the number of supports needed for the guide rails based on the pump weight and size.
3. Item 4-3 of Bid Proposal Form (Section 00405) will require the use of 24" SDR pipe and will not utilize 8" pipe. Casing steel casing utilizing a size of 30" or larger is acceptable.
4. Item 4-2 of Bid Proposal Form (Section 00405-4) shall utilize 24" SDR 26 PVC Pipe.
5. Item 7-3 of Schedule of Alternatives (Section 00407) shall utilize 30" steel casing or larger is acceptable.
6. Connection to existing 12" forcemain, including thrust blocking, asphalt curbs, repair of 3" of asphalt, and gutter repair can be found on LS-1. The location is approximate in location. The contractor will be responsible for ensuring that the connection is acceptable. The use of a 45 degree attachment to the forcemain is required from the new forcemain for the lift station.
7. Section 00407 Schedule of Alternative – page 1 only – has been attached to this addendum and is required for the use of Section 00407 in bidding submittals.

8. Section 00405 Schedule of Unit Price Work – page 4 only – has been attached to this addendum and is required for the use of Section 00407 in bidding submittals.
- 9 See revised sheet regarding amperage from MEP on Sheet E.2

END OF ADDENDUM NO. 3



Richard LeFevre, P.E.

DATED: 7-14-26

END OF DOCUMENT

SDR 26 Sewer Pipe					
4-1	Installation of 24" SDR 26 PVC sewer line at all depths as per plans and specifications, complete in place (14-18ft)	LF	5,984		
4-2	Installation of 24" SDR 26 PVC sewer line at all depths as per plans and specifications, complete in place (12-14ft)	LF	361		
4-3	Installation of 30" Steel Casing or larger with skids; by bore construction; for SDR-26 24" Pipe; complete in place.	LF	66		
4-5	Open cut construction of Road for placement of sewer pipe in Tower Rd.; replacment of road material with 3" minimum Type D HMAc, 8" Caliche, 11" subgrade with 3% lime; complete in place.	SY	2,442		
4-6	Driveway Removal and disposal; open cut construction for placement of 24" sewer pipe beneath existing driveways, including replacment of 3000 psi concrete with rebar construction; to a depth of 5"; complete in place	SY	470		
Proposed Sewer Pipe					
Fiberglass Manholes					
5-1	Installation of 48-inch fiberglass manholes, including metal manhole covers with rainguards, complete in place vertical depth of 14-18 ft.; concrete base.	LS	22		
5-2	Installation of 60-inch fiberglass manholes, including metal manhole covers with rainguards, complete in place to a depth of 20'	LS	3		
Fiberglass Manholes					
Road Reconstruction - Palm Harbor Rd.					
6-1	Palm Harbor Rd: Removal of Base Material and Asphalt, Re-application of new 8" Caliche Base Material; new 2" TYPE D HMAc Asphaltic Pavement; Primecoat MC-30; complete in place	SY	973		
Road Reconstruction					

Document 00407

SCHEDULE OF ALTERNATES

This Document, constitutes a Supplement to Document 00405 - Schedule of Unit Price Work.

When a Contract is awarded, this Document becomes a supplement to the CONTRACT Between Owner and Contractor.

- A. Alternate bids will be reviewed and accepted or rejected at the discretion of the Owner.
- B. Any Alternate not listed below will not be considered.

Proposed Lift Station Improvements - Lift Station No. 1 - Alternate Items					
7-1	2-TON Free Standing Jib Crane steel beams & rails, trolleys, one hoist with cable, all controls and alarms, anchor plates, footings, protective coatings, installation and delivery of complete system with manuals and 3 year warranty; per plans and specifications, complete in place for approved wastewater use in corrosive environment.	LS	1		
7-2	Diesel Bypass Pump - 1878 GPM with built in fuel tank, self contained, built in fuel tank, support slab, controls, floats, electric start, complete in place.	LS	1		
7-3	Installation of three (3) manholes to depths as per plans and specifications; installation of 1,100 LF of 24" SDR 26 PVC pipe to depths as per plans; installation of 120 FT of 30" or larger" Steel Casing by Bore Construction; connection to existing Lift Station No. 17 receiving manhole.	LS	1		
7-4	Demolishing of proposed facility (LS No. 17); including wastepit. Concrete to be removed as per plans and filled with cementious stabilized sand to concure with TCEQ requirements for removal of debris. Concrete shall be removed to 4' above the surface level and leveled with cementious sand. Complete in Place.	LS	1		
7-5	Deduction for the use of alternate pumps other than Flygt Pumps, must have Engineers approval of alternative pumps to be used for project; complete in place and must achieve design requirements.	EA	3		
7-6	Deduction for the use of alternate diesel by-pass pumps, Godwin or Gorman Rupp; alternative must be pre-approved by Engineer and meet the design requirements and be portable; complete in place.	EA	1		
7-7	Deduction for not using ECS Biotrickling Filter; must be pre-approved by Engineer and must have the design requirements in specifications and constructed such as ECS; BioAir is an acceptable replacement and does have a deduction for this project. This includes all switches, pipes, and controls, complete in place and functional.	LS	1		
Alternate Items					

RISER KEYED NOTES:

- PROVIDE NEW ELECTRICAL SERVICE. PROVIDE SERVICE ENTRANCE CAP FOR UNDERGROUND SECONDARY AS PER UTILITY COMPANY STANDARDS.
- PROVIDE NEW FEEDER. REFER TO FEEDER SCHEDULE - TYPICAL.
- PROVIDE NEW NEMA 4X SS CT ENCLOSURE. CONFIRM REQUIREMENT WITH UTILITY COMPANY PRIOR TO BIDDING.
- ELECTRIC METER PER UTILITY COMPANY. COORDINATE METER SOCKET CONFIGURATION WITH LOCAL UTILITY COMPANY. PROVIDE LISTED FOR USE IN CORROSIVE ENVIRONMENTS.
- PROVIDE NEW 800A, 4-POLE, 480/277V, THREE PHASE, 800AF, NEMA 4X SS, SERVICE ENTRANCE RATED DOUBLE THROW SWITCH WITH CAM LOCKS FOR CONNECTION OF A PORTABLE DIESEL GENERATOR.
- PROVIDE 4" GALVANIZED POST AND CAP, TYPICAL.
- PROVIDE NEW PANELBOARD. REFER TO PANEL SCHEDULES FOR DETAILS.
- PROVIDE NEW SINGLE PHASE, 480V PRIMARY, 120/240V SECONDARY PRE-WIRED TRANSFORMER/PANEL POWER CENTER SQUARE D MODEL "MP2B15S40FSS" OR APPROVED EQUAL. PROVIDE WITH PRIMARY MAIN CIRCUIT BREAKER, 15KVA TRANSFORMER, MAIN BREAKER SECONDARY PANEL, AND NEMA 3R STAINLESS STEEL ENCLOSURE. REFER TO PANEL SCHEDULE FOR MORE DETAILS.
- NEW PUMP CONTROLLER FURNISHED BY OTHERS AND INSTALLED BY ELECTRICAL CONTRACTOR. CONTROLLER SHALL INCLUDE VARIABLE FREQUENCY DRIVES (VFDs) FOR EACH PUMP MOTOR WITH LEAD-LAG-SEQUENTIAL OPERATION. MAXIMUM VOLTAGE DIP DURING STARTING SHALL NOT EXCEED 25%. PROVIDE VFD-RATED MOTOR CABLE FROM VFD OUTPUT TERMINALS TO EACH MOTOR. CABLE SHALL BE COPPER, XLPE INSULATED, MINIMUM 1000V RATED, WITH SYMMETRICAL GROUND AND OVERALL COPPER TAPE OR BRAID SHIELD.
- IF MOTOR LEAD LENGTH EXCEEDS 100 FEET, PROVIDE 1000V INVERTER-DUTY CABLE SPECIFICALLY RATED FOR REFLECTED WAVE APPLICATIONS AND VERIFY COMPLIANCE WITH VFD MANUFACTURER REQUIREMENTS.
- IF MOTOR LEAD LENGTH EXCEEDS 300 FEET, PROVIDE DVIDT FILTER OR SINE WAVE FILTER AT VFD OUTPUT AS REQUIRED BY VFD MANUFACTURER TO LIMIT PEAK VOLTAGE AND MOTOR INSULATION STRESS.
- PROVIDE UNDERGROUND RACEWAY WITH GALVANIZED PULLWIRE FOR PUMP POWER CABLING. COORDINATE RACEWAY REQUIREMENTS WITH PUMP SUPPLIER.
- PROVIDE UNDERGROUND RACEWAY WITH GALVANIZED PULLWIRE FROM PUMP CONTROLLER TO WET WELL FOR FLOAT SWITCHES CABLING.
- PROVIDE SEALING FITTING, TYPICAL.
- COORDINATE WELL PENETRATIONS WITH GENERAL CONTRACTOR. PROVIDE SLEEVES, TYPICAL.
- INSTALL NEW PUMP MOTOR (FURNISHED BY OTHERS). REFER TO EQUIPMENT CONNECTION SCHEDULE. TYPICAL.
- SEE SHEET ES-0 FOR PUMP SPEC SHEET.
- PUMP CONTROL. FLOAT SWITCHES CABLING TO BE FURNISHED BY PUMP SUPPLIER AND INSTALLED BY ELECTRICAL CONTRACTOR. TERMINATE ALL CABLING AT PUMP CONTROLLER. COORDINATE LENGTH REQUIRED WITH SUPPLIER.
- PROVIDE NEW PRIMEX PUMP WATCH EXPRESS MODEL "LIGHT 1051730" MONITOR WITH OUTDOOR RATED ENCLOSURE AND BATTERY BACKUP OR APPROVED EQUAL. PROVIDE 120V, 20A BRANCH CIRCUIT: 1/2" - 2#12 AND #12 GND, AND COMMUNICATION CABLING FROM PUMP CONTROLLER.
- PROVIDE GFCI DUPLEX RECEPTACLE IN WEATHERPROOF BOX / COVERPLATE.
- FLOAT SWITCHES, SENSORS AND CABLING FURNISHED BY PUMP SUPPLIER AND INSTALLED BY ELECTRICAL CONTRACTOR.
- PROVIDE 1#8 IN 3/4"C GROUNDING ELECTRODE CONDUCTOR, AND A 3/4" DIAMETER X 10' COPPER CLAD GROUNDING ROD. REFER TO LATEST NEC FOR REQUIREMENTS. REFER TO GROUNDING DETAIL.
- PROVIDE 316 STAINLESS STEEL STRUT SUPPORT AND STAINLESS STEEL STRAPS / MOUNTING HARDWARE.
- PROVIDE POST CONCRETE FOOTING, TYPICAL.
- ALTERNATE BID "A" -** IF STANDBY DIESEL POWERED PUMP ALTERNATE IS ACCEPTED, PROVIDE ELECTRICAL WORK FOR NEW STAND-BY DIESEL PUMP. ELECTRICAL WORK SHALL INCLUDE ALL POWER AND CONTROL WIRING NECESSARY FOR OPERATION, INCLUDING BRANCH CIRCUITS TO DEDICATED DIESEL PUMP CONTROLLER AND INTEGRAL OR SEPARATE BATTERY CHARGER (PROVIDING CONTINUOUS FLOAT CHARGING OF ENGINE STARTING BATTERIES), FLOAT AND LEVEL CONTROL WIRING, AND ALL REQUIRED RACEWAYS, CONDUCTORS, DISCONNECTS, AND OVER-CURRENT PROTECTION. PROVIDE A COMPLETE AND OPERATIONAL DIESEL PUMP CONTROL SYSTEM ASIDE FROM BASE BID ELECTRIC PUMP CONTROLLER. COORDINATE ALL REQUIRED INTERLOCKING, ALARM, AND CONTROL INTERFACES BETWEEN DIESEL AND ELECTRIC PUMP SYSTEMS. COORDINATE INSTALLATION WITH CIVIL.
- ALTERNATE BID "B" -** IF JIB CRANE ALTERNATE IS ACCEPTED, PROVIDE BRANCH CIRCUIT FOR HOIST/TROLLEY CONTROL PANEL. CONTRACTOR SHALL REVIEW THE ELECTRICAL CONNECTION REQUIREMENTS OF EQUIPMENT WITH OWNER PRIOR TO BID.

GENERAL NOTES:

- GROUNDING SHALL BE ESTABLISHED PER NEC 250.24(A)(1).
- PROVIDE GROUNDING / BONDING AS INDICATED ON THE NATIONAL ELECTRICAL CODE.
- NAME PLATES SHALL BE PROVIDED FOR ALL ELECTRICAL GEAR BY ELECTRICAL CONTRACTOR.
- NEW ELECTRICAL METERING AND SERVICE EQUIPMENT SHALL BE PROVIDED AND INSTALLED ACCORDING TO THE LOCAL POWER UTILITY CO. AND CITY REQUIREMENTS. VERIFY AND COORDINATE WITH POWER UTILITY CO. AND AHJ BEFORE BID AND INSTALLATION.
- COMPLY WITH NFPA 70E SAFETY REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY OF ELECTRICAL SERVICE WITHIN PROJECT SCHEDULE. COORDINATE ALL COST FOR LABOR AND MATERIALS WITH LOCAL ELECTRICAL UTILITY COMPANY PRIOR TO BID. ALL COST ASSOCIATED WITH THE DELIVERY OF ELECTRICAL SERVICE INCLUDING ALL MATERIALS SHALL BE INCLUDED IN BID. TRANSITION OF NEW ELECTRICAL SERVICE SHALL PROCEED IN WEEKENDS OR HOLIDAYS. INCLUDE ALL COST IN BID FOR OVERTIME FROM ELECTRIC UTILITY COMPANY. NO ADDITIONAL PAYMENT WILL BE MADE FOR SERVICE DELIVERY COSTS AFTER CONTRACT HAS BEEN AWARDED.
- THE CONTRACTOR SHALL FURNISH SHORT-CIRCUIT AND PROTECTION DEVICE COORDINATE STUDIES WHICH SHALL BE PREPARED BY THE EQUIPMENT GEAR MANUFACTURER.
- THE CONTRACTOR SHALL FURNISH AN ARC FLASH HAZARD ANALYSIS STUDY PER NFPA 70E STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE. REFERENCE ARTICLE 130.3 AND APENDEX D.
- CONTRACTOR SHALL INCLUDE ALL COST TO PROVIDE SHORT CIRCUIT AND PROTECTIVE DEVICE. THE SHORT-CIRCUIT AND PROTECTIVE DEVICE COORDINATE STUDIES SHALL BE SUBMITTED TO THE DESIGN ENGINEER PRIOR TO RECEIVING FINAL APPROVAL OF THE DISTRIBUTION EQUIPMENT SHOP DRAWINGS AND/OR PRIOR TO RELEASE OF EQUIPMENT DRAWINGS FOR MANUFACTURING. APPROVAL FROM THE ENGINEER MAY BE OBTAINED FOR PRELIMINARILY SUBMITTAL OF SUFFICIENT STUDY DATA TO ENSURE THAT THE SELECTION OF DEVICE AND CHARACTERISTICS WILL BE SATISFACTORY.

FEEDER SIZING

Southwire Voltage Drop Calculator	
Inputs:	Commercial 75°C
Current Type:	AC
Units for Length:	Feet
Phase:	Three
Conductor:	Copper
Insulation:	Elect Conduit
Length of Cable Run:	55.0 Feet
Max Voltage Drop:	480 Volts
Current at end of Cable Run:	800 Amperes
Power Factor:	0.9
Results for Minimum Conductor Size Calculation:	
2 conductors per phase utilizing a 600 KCMIL copper conductor installed. Steel Conduit will limit the voltage drop to 5.20% at new cable loading of 800 amperes for 55 feet on a 480 volt three phase system.	
Engineering Information:	
4000: Three phase calculation of installed conductor	
0.0214: Ohms Resistance (Ohms per 1000 feet)	
0.0000: Ohms Resistance (Ohms per 1000 feet)	
0.9: Power Factor	
1.467: Minimum allowable voltage drop at 90%	
1.392: Actual voltage drop rate at 0.20% for the circuit	
Notes to User:	
CONDUCTOR SIZE CALCULATIONS: All ampacity values are taken from NEC 90.15. The conductor characteristic ampacity table, Chapter 9, Tables 8 & 9 of the NEC. No adjustment for ambient temperature correction factors or correction for voltage drop. Voltage drop calculations are not performed for medium voltage or high voltage conductors (240V volts or more). These calculations do not apply to flexible conductors.	

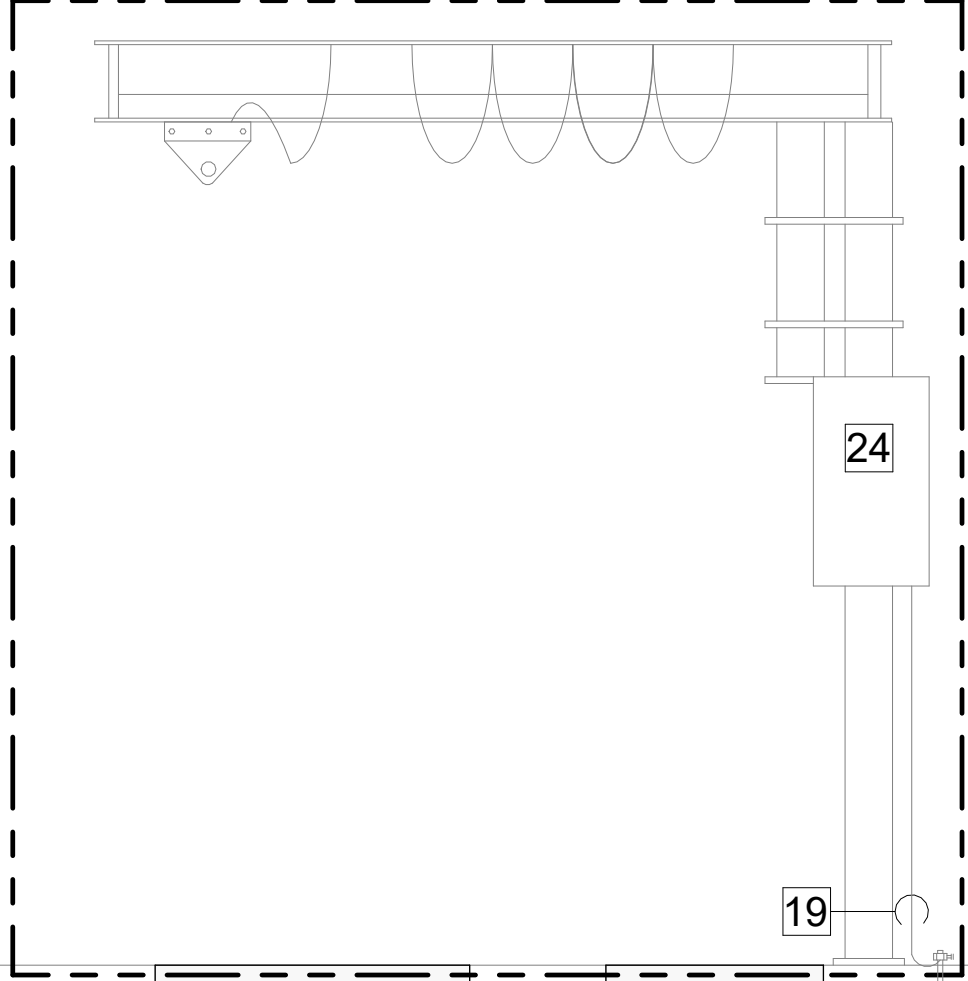
FEEDER SCHEDULE

FEEDER ID	RATING (AMPERES)	FEEDER (THHN/THWN-2 COPPER CONDUCTORS 75°C)				
		NO. OF SETS	RACEWAY SIZE (PER SET)	PHASE CONDUCTORS (PER SET)	NEUTRAL CONDUCTOR (PER SET)	GROUNDING CONDUCTOR (PER SET)
T40	40	1	3/4"	2#8	----	1#10
F800	800	2	4"	3#600KCMIL	1#600KCMIL	1#1/0
FS800	800	2	4"	3#600KCMIL	1#600KCMIL	----

NOTES:

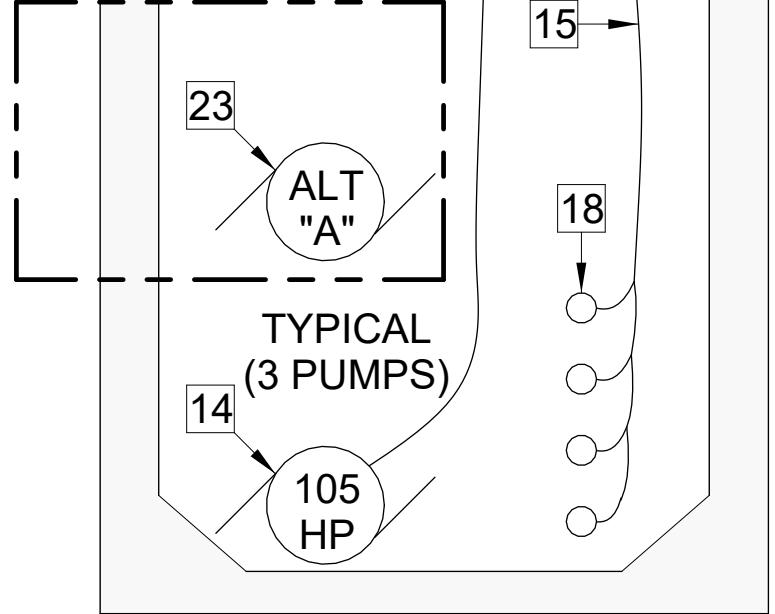
- ELECTRICAL CONTRACTOR SHALL PROVIDE EQUIPMENT WITH THE APPROPRIATE NUMBER AND SIZE OF LUGS FOR THE CONNECTION OF CORRESPONDING CONDUCTORS.
- PROVIDE STRANDED CONDUCTORS FOR #8 AWG AND LARGER. PROVIDE SOLID CONDUCTORS FOR #10 AWG AND SMALLER.
- REFER TO ELECTRICAL RISER DIAGRAM FOR FEEDER LOCATIONS.

ALTERNATE BID "B"



WET WELL

ALTERNATE BID "A"



TYPICAL (3 PUMPS)

105 HP

1 ELECTRICAL RISER DIAGRAM

NOT TO SCALE

ELECTRICAL RISER DIAGRAM LEGEND	
—	DENOTES NEW
—	DENOTES NEW FEEDER

PROPOSED UTILITY POLE

PROPOSED 277/480V, 3-PHASE, 4-WIRE UTILITY COMPANY POLE MOUNT TRANSFORMERS.

Revision Schedule		
Num	Description	Date
0	ISSUE FOR PERMIT	10 APR 2026
1	ADD#03	14 JUL 2026



TX PE FIRM # F16900
1004 W FRONTAGE RD
ALAMO, TX 78516
506.737.FIRE

LIFT STATION
NO. 1 WASTEWATER
IMPROVEMENTS
ALAMO, TX



LEFEBVRE
ENGINEERING

OWNER:
CITY OF ALAMO
402 N ALAMO RD
ALAMO, TX 78516

Riser Diagram

DRAWN BY: J.M.P.
CHECKED BY:
APPROVED BY: L.E. Madrigal
DATE: 14 JUL 2026
REVISED DATE:
SCALE 11 X 17:
SCALE 24 X 36: AS NOTED
PROJECT #: 25 04 05
FILE NAME:
SHEET

E2.0