



Addendum No. 1

June 7, 2024

**INTERIM MATERIAL RECOVERY (MRF)
FIRE SPRINKLER SYSTEM
DETAILED DESIGN AND INSTALLATION**

Solicitation #487 – Interim MRF – Fire Sprinkler System

SUBMITTAL DATE: JUNE 21, 2024, 2:00PM EST

Notice to Bidders: This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated May 28, 2024, as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the bidder to disqualification.

Extension of Period for Questions

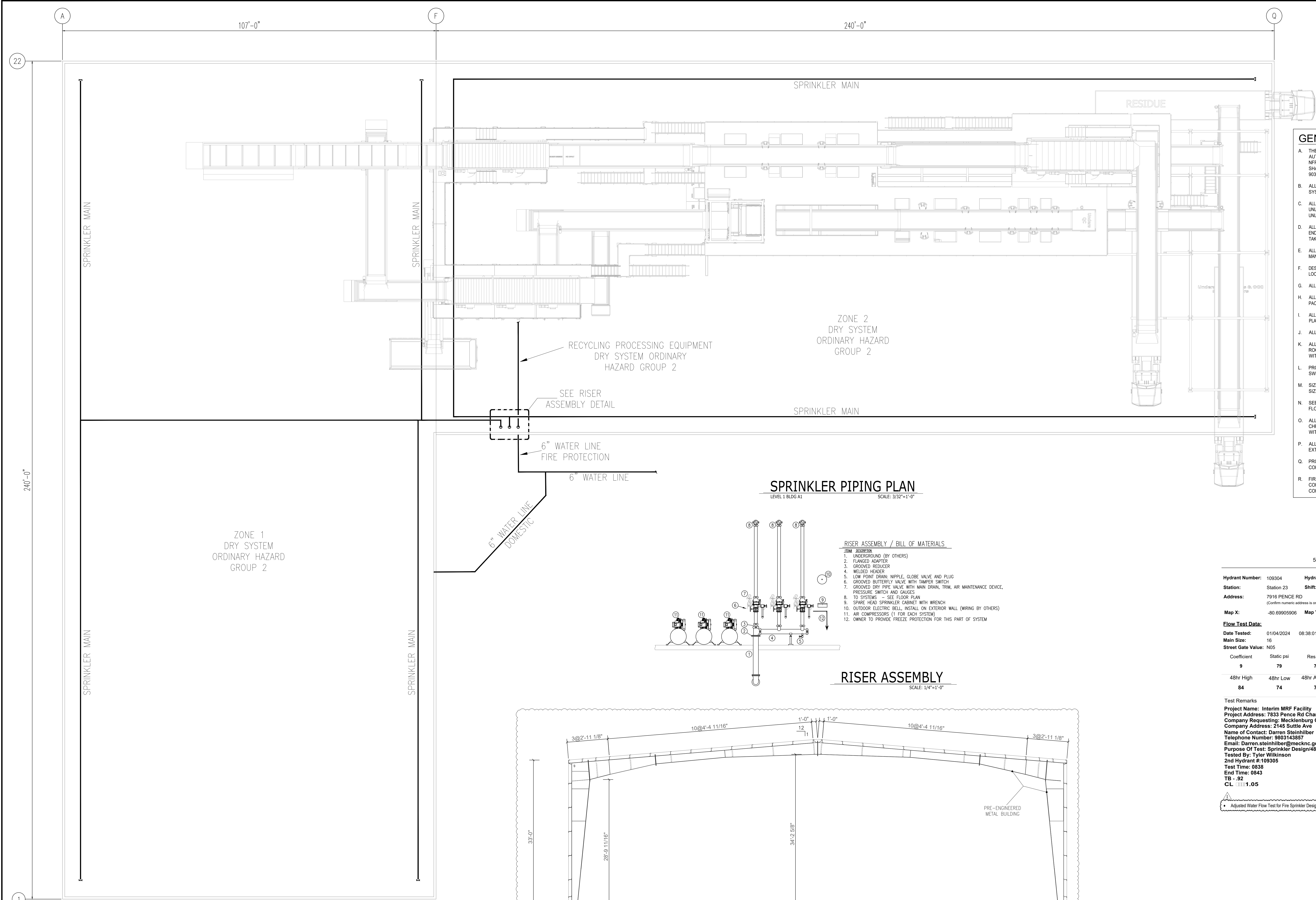
The period for questions has been extended to close of business on Wednesday, June 12, 2024. Appropriate responses, where required, will then be issued by addendum to all bidders no later than 5:00PM on Tuesday, June 18, 2024.

Revised Fire Protection Plan

The Fire Protection Plan included as Attachment E in the Request for Proposal dated May 28, 2024 is being replaced by the Revised Attachment E included as part of this Addendum No. 1.

Attachment E

Fire Protection Plan: Processing Building



GENERAL FIRE PROTECTION NOTES:

- THE ENTIRE BUILDING SHALL BE 100% PROTECTED WITH A FULLY AUTOMATIC FIRE PROTECTION SYSTEM DESIGNED IN ACCORDANCE WITH NFPA (13-2013, 14-2013, 20-2013), STATE AND LOCAL CODES. SPRINKLER SHALL BE OMITTED IN THE MAIN ELECTRICAL ROOM PER NCBC SECTION 903.3.1.1.1. NOTE 5 AND NFPA-13 SECTION 8.15.11.3.
- ALL SPRINKLER SYSTEMS TO BE DRY PIPE SYSTEMS. ALL PIPING ON DRY SYSTEM TO PITCH BACK TO RISER OR A DRAIN PER NFPA #13 - 2013.
- ALL PIPING 1-1/4" AND SMALLER TO BE SCHEDULE 40, BLACK WITH THREADED ENDS. UNLESS NOTED, ALL THREADED FITTINGS TO BE BLACK, CAST IRON, CLASS 125, UNLESS NOTED.
- ALL PIPING 1-1/2" AND LARGER TO BE SCHEDULE 40, BLACK WITH ROLL GROOVED ENDS. ALL GROOVED FITTINGS TO BE DUCTILE IRON WITH A SHORT RADIUS TAKE-OUT AND FACTORY FINISH.
- ALL WELDED OUTLETS ON GROOVED PIPE SECTIONS TO BE PER NFPA #13 AND MANUFACTURERS SPECIFICATIONS.
- DESIGN, INSTALLATION & MATERIALS TO BE PER NFPA #13 2013 EDITION, STATE AND LOCAL CODES.
- ALL MATERIALS TO BE U.L. LISTED AND/OR FM APPROVED.
- ALL FIRE RATED WALLS TO BE SLEEVED AND FIRE STOPPED. SEE FIRE CAULK PACKAGING FOR INSTRUCTIONS.
- ALL EXTERIOR WALL PENETRATIONS TO BE CAULKED AND COVERED WITH A WALL PLATE.
- ALL AREAS ARE TO BE PROVIDED WITH QUICK RESPONSE SPRINKLERS.
- ALL SPRINKLER PIPING SHALL BE COORDINATED WITH ALL OTHER CEILING / ROOF RELATED DEVICES. ALL SPRINKLER PIPING TO BE COORDINATED WITH OTHER TRADES.
- PROVIDE ALL REQUIRED INSPECTORS TEST CONNECTIONS TO TEST FLOW SWITCHES. DISCHARGE DRAIN PIPING TO OUTDOORS.
- SIZE ALL FIRE PROTECTION PIPING IN ACCORDANCE WITH NFPA 13. PIPE SIZING SHALL BE ACCOMPLISHED USING HYDRAULIC CALCULATIONS.
- SEE FLOW TEST INFORMATION ON THIS SHEET. PIPE SIZING BASED ON FLOW TEST AND HYDRAULIC CALCULATIONS.
- ALL AREAS HAVING CEILING SHALL BE PROVIDED WITH SEMI-RECESSED CHROME PENDANT. ALL AREAS HAVING NO CEILINGS SHALL BE PROVIDED WITH BRASS UPRIGHT SPRINKLERS.
- ALL SPRINKLER DRAIN PIPING SHALL BE DISCHARGED TO THE BUILDING EXTERIOR.
- PROVIDE SEISMIC BRACING AS REQUIRED BY NFPA AND LOCAL BUILDING CODE STANDARDS AND REGULATIONS FOR SEISMIC DESIGN CATEGORY C.
- FIRE DEPARTMENT CONNECTION IS IN THE YARD. STANDING SIAMESE TYPE CONNECTIONS. FIRE DEPARTMENT CONNECTION BY SITE UTILITY CONTRACTOR. SEE SITE UTILITY DRAWING C-58.

Charlotte Fire Department Fire Hydrant Flow Request Form

500 Dalton Avenue Charlotte, NC 28206 (704) 336-2101

Hydrant Number:	109304	Hydrant Mfg.:MUELLER	Type/Owner:PUBLIC
Station:	Station 23	Shift:	8
Address:	7916 PENCE RD (Confirm numeric address is on correct side of street)		
Map X:	-80.69905906	Map Y:	35.22001984
Flow Test Data:			
Date Tested:	01/04/2024	08:38:01	
Main Size:	16		
Street Gate Value:	N05		
Coefficient	Static psi	Res. PSI	Flow PSI
9	79	77	44
48hr High	48hr Low	48hr Average	2 1/2" Flow GPMFlow @ 20Res
84	74	79	1112.99 6921.44 8103.17

Test Remarks

Project Name: Interim MRF Facility
Project Address: 7833 Pence Rd Charlotte NC
Company Requesting: Mecklenburg County LUESA-Solid Waste
Company Address: 2145 Suttle Ave
Name of Contact: Darren Steinhilber
Telephone Number: 9803143857
Email: darren.steinhilber@mecknc.gov
Purpose Of Test: Sprinkler Design/48 Hour Test
Tested By: Tyler Wilkinson
2nd Hydrant #:109305
Test Time: 0838
End Time: 0843
TB - .92
CL 1.05

Adjusted Water Flow Test for Fire Sprinkler Design: Static: 74 psi Residual: 72 psi Flowing 1112 GPM

2	REVISED PER PROJECT ENGINEER COMMENTS.	6/3/25	FPD
1	REVISED PER CITY PLAN REVIEW COMMENTS.	4/15/24	FPD
REVISION	DESCRIPTION	DATE	INITIALS

NORTH CAROLINA LICENSE #24066
SOUTH CAROLINA LICENSE #1522

THIS DESIGN HAS BEEN REVIEWED
AND APPROVED BY:

CONTRACTOR:



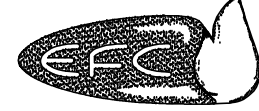
SYMBOL LEGEND

Symbol	Description
Hydraulic Reference Point	
TYCO MODEL "TY-FRB" PENDENT	
TYCO MODEL "TY-FRB" UPRIGHT	
TYCO MODEL "EC11" PENDENT	
TYCO MODEL "EC11" UPRIGHT	
Denotes Hanger Location	
Rise up or down	
Flexible coupling	
Design, Field and Stocklist Notes	

SPRINKLER SCHEDULE & LEGEND

SYMBOL	DESCRIPTION	SN NO.	NPT	"C"	TEMP.	FINISH	QTY.
TYCO MODEL "TY-FRB" PENDENT		TY323	1/2"	5.6	155°	CHROME	---
TYCO MODEL "TY-FRB" UPRIGHT		TY313	1/2"	5.6	200°	BRASS	---
TYCO MODEL "EC11" PENDENT		TY5237	3/4"	5.6	155°	CHROME	---
TYCO MODEL "EC11" UPRIGHT		TY5137	3/4"	5.6	200°	CHROME	---
SPARE HEAD CABINET W/ WRENCH(ES) PROVIDED							---
TOTAL HEADS, THIS DRAWING:							---

Mecklenburg Interim MRF Facility
7833 Pence Road
Charlotte, North Carolina 28215
Fire Protection Plan: Processing Building
ELITE FIRE CONTROL, INC.
P.O. BOX 1573 SALISBURY, NC 28145
PH: (704) 633-1644 FAX: (704) 633-1874



DRAWN BY:	FPD
DATE:	03/06/2024
SCALE:	AS NOTED
CHECKED BY:	DH
CONTRACT NO:	J24-101
APPROVED BY:	PE, CITY
DRAWING:	FP 1 of 1
REV NO:	2