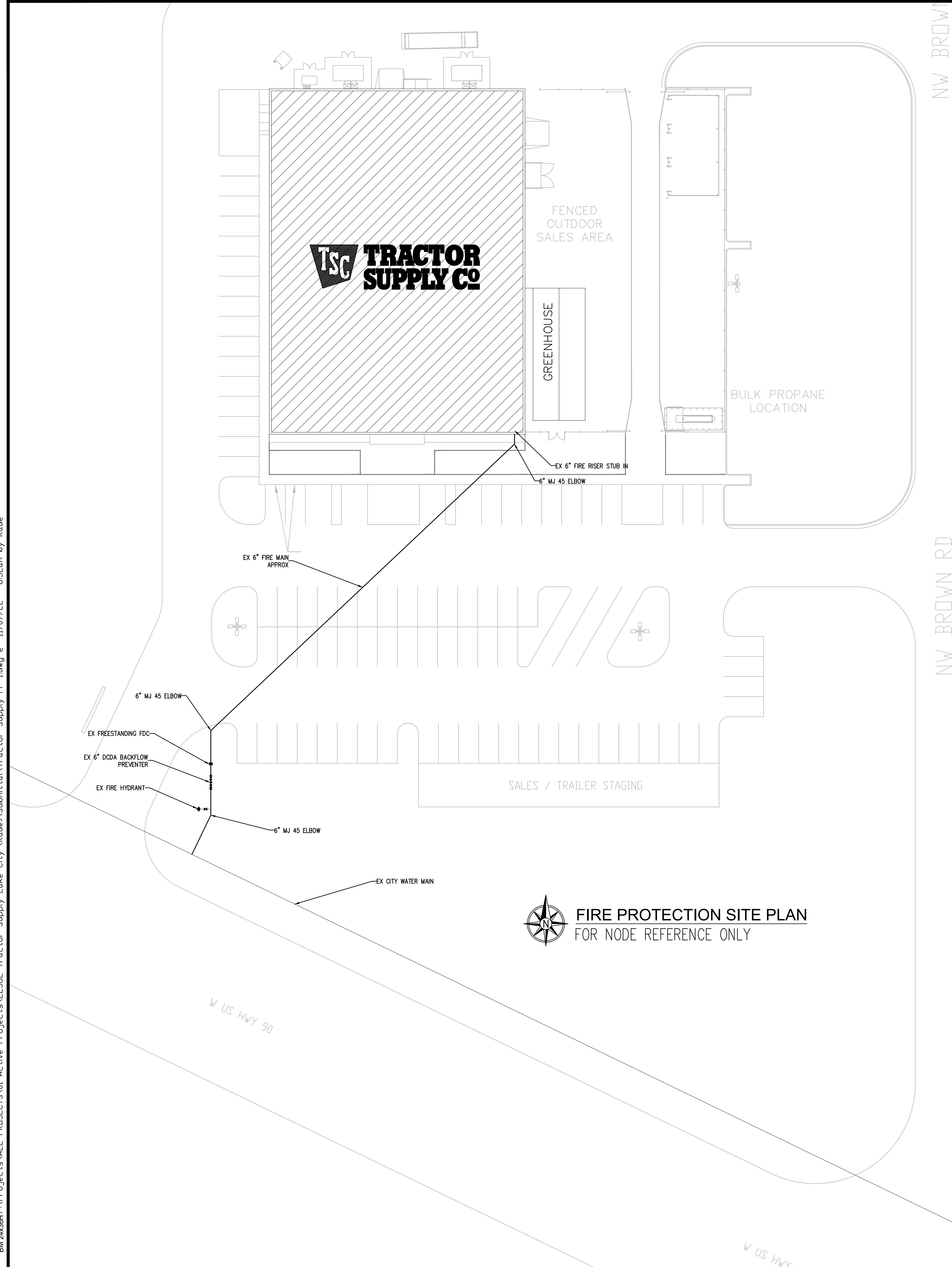




- DRAWING NOTES**
1. TOTAL AREA PART OF CONTRACT GREENHOUSE DRY SYSTEM ±2,000 SQ FT
 2. ALL PIPE FOR DRY SYSTEM 1" SCH 40 BLACK PIPE.
 3. ALL PIPE FOR DRY SYSTEM 1-1/4" AND UP SCH 10 BLACK PIPE.
 4. ALL WORK TO BE PERFORMED AS PER NFPA 13.

- FIRE PROTECTION GENERAL NOTES**
1. FIRE PROTECTION SYSTEM(S) TO COMPLY WITH NFPA 13 (2016) AND ALL APPLICABLE STATE AND LOCAL CODES.
 2. ADHERE TO AND OBTAIN ALL PERMITS, LICENSES, AND ALL GOVERNMENT REQUIREMENTS.
 3. FINAL INSPECTION AND APPROVAL BY FIRE MARSHAL AND ARCHITECT/ENGINEER.
 4. CUTTING OF STRUCTURAL AND/OR ARCHITECTURAL MEMBERS TO BE DONE ONLY WITH THE WRITTEN APPROVAL OF THE ARCHITECT.
 5. PIPE ROUTING SHOWN SHALL BE USED AND ANY ADDITIONAL OFFSETS OR FITTINGS REQUIRED FOR PROPER INSTALLATION, COORDINATION WITH OTHER TRADES, AND/OR TO MAINTAIN PROPER CLEARANCES SHALL BE PROVIDED. VERIFY EXISTING STRUCTURAL, MECHANICAL, ELECTRICAL INSTALLATIONS AND AVOID ANY/ALL OBSTRUCTIONS OR INTERFERENCES WITH FIRE PROTECTION PIPE ROUTING.
 6. PIPE SHALL BE REAMED AND CLEANED BEFORE ASSEMBLY.
 7. METHODS OF HANGING PIPES, HEADERS, AND BRANCHES SHALL BE IN ACCORDANCE WITH NFPA 13.
 8. PROTECT ALL PENETRATIONS OF SMOKE/FIRE WALLS, CEILINGS, FLOORS, ETC. (SEE DETAIL).
 9. GENERAL CONTRACTOR TO PROVIDE ACCESS PANELS TO ALL VALVES ABOVE NON-ACCESSIBLE CEILINGS.
 10. AUTOMATIC SPRINKLER TEMPERATURE RATINGS TO BE IN ACCORDANCE WITH NFPA 13.
 11. ALL COMPONENTS SHALL BE LISTED BY UNDERWRITER'S LABORATORIES (UL) AND/OR APPROVED BY FACTORY MUTUAL (FM) FOR USE WITH FIRE PROTECTION SYSTEMS.
 12. ALL COMPONENTS SHALL BE LISTED FOR THE MAXIMUM SYSTEM PRESSURE, 175 PSI MINIMUM.
 13. VALVES ON THE FIRE PROTECTION SYSTEM TO BE ELECTRICALLY SUPERVISED. TYPE AND EXACT LOCATION OF FLOW AND SUPERVISORY SWITCHES SHALL BE COORDINATED BETWEEN THE DIFFERENT RESPONSIBLE TRADES. WIRING BY OTHERS
 14. PROVIDE HYDRAULIC DESIGN INFORMATION SIGNS AT EACH SYSTEM RISER.
 15. PROVIDE STOCK OF SPARE SPRINKLERS AND HEAD WRENCH IN A MOUNTED CABINET AS REQUIRED.

FLOW TEST DATA

PROJECT LOCATION	TRACTOR SUPPLY
DATE OF TEST:	8/24/22
TIME OF TEST:	10:20AM
TEST TAKEN BY:	CITY OF LAKE CITY
TEST HYDRANT LOCATION	W/O 5359 US HWY 90
STATIC PRESSURE:	81 PSI
RESIDUAL PRESSURE:	52 PSI
FLOW HYDRANT LOCATION	W/O 5359 US HWY 90
HYDRANT OUTLET SIZE:	2.5
COEFFICIENT:	0.8
PITOT PRESSURE:	40 PSI
FLOW IN GALLONS:	1643 GPM
SUPPLY CHARACTERISTICS:	
NOTES:	

HYDRAULIC-SYSTEM

This building is protected by a Hydraulically Designed Automatic Sprinkler System.

Location: GARDEN CENTER

No. of Sprinklers: 28

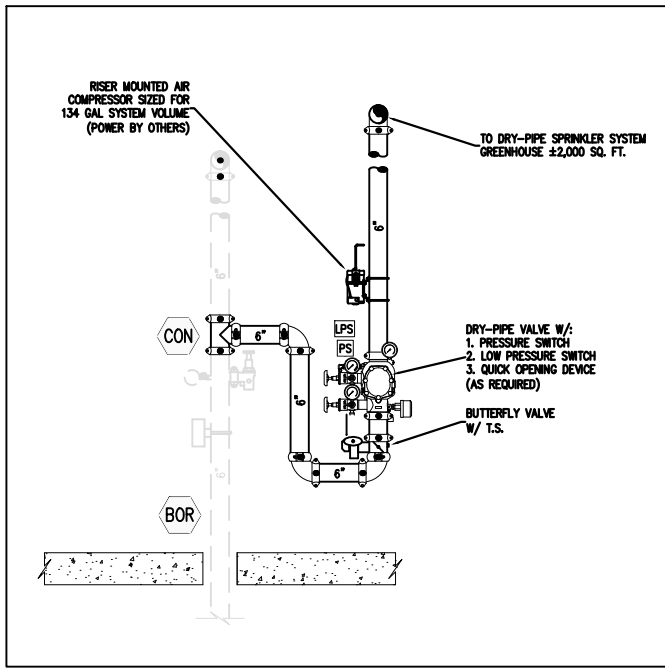
Basis of Design

1. DENSITY: .20 GPM/SQ. FT.
2. DESIGNED AREA OF DISCHARGE: 1980 SQ.FT.

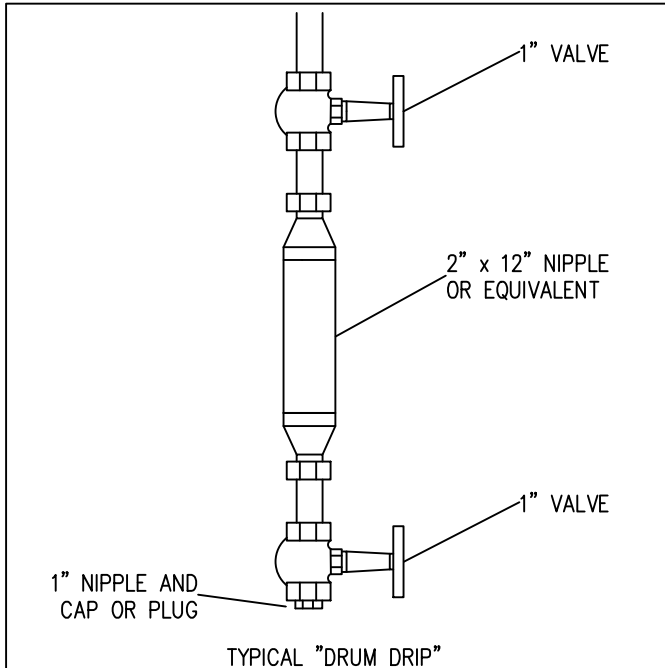
System Demand

1. GPM DISCHARGE: 782,377 GPM
2. RESIDUAL PRESSURE AT THE BASE OF THE RISER: 33.773 PSI

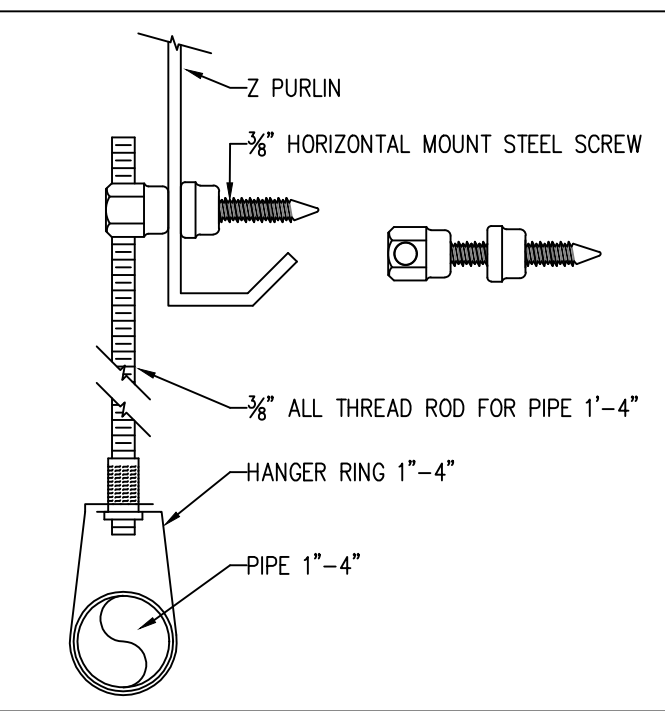
TRACTOR SUPPLY CENTER #550



DRY PIPE RISER DETAIL
SCALE: NOT TO SCALE



DRY AUXILIARY DRAIN
SCALE: NOT TO SCALE

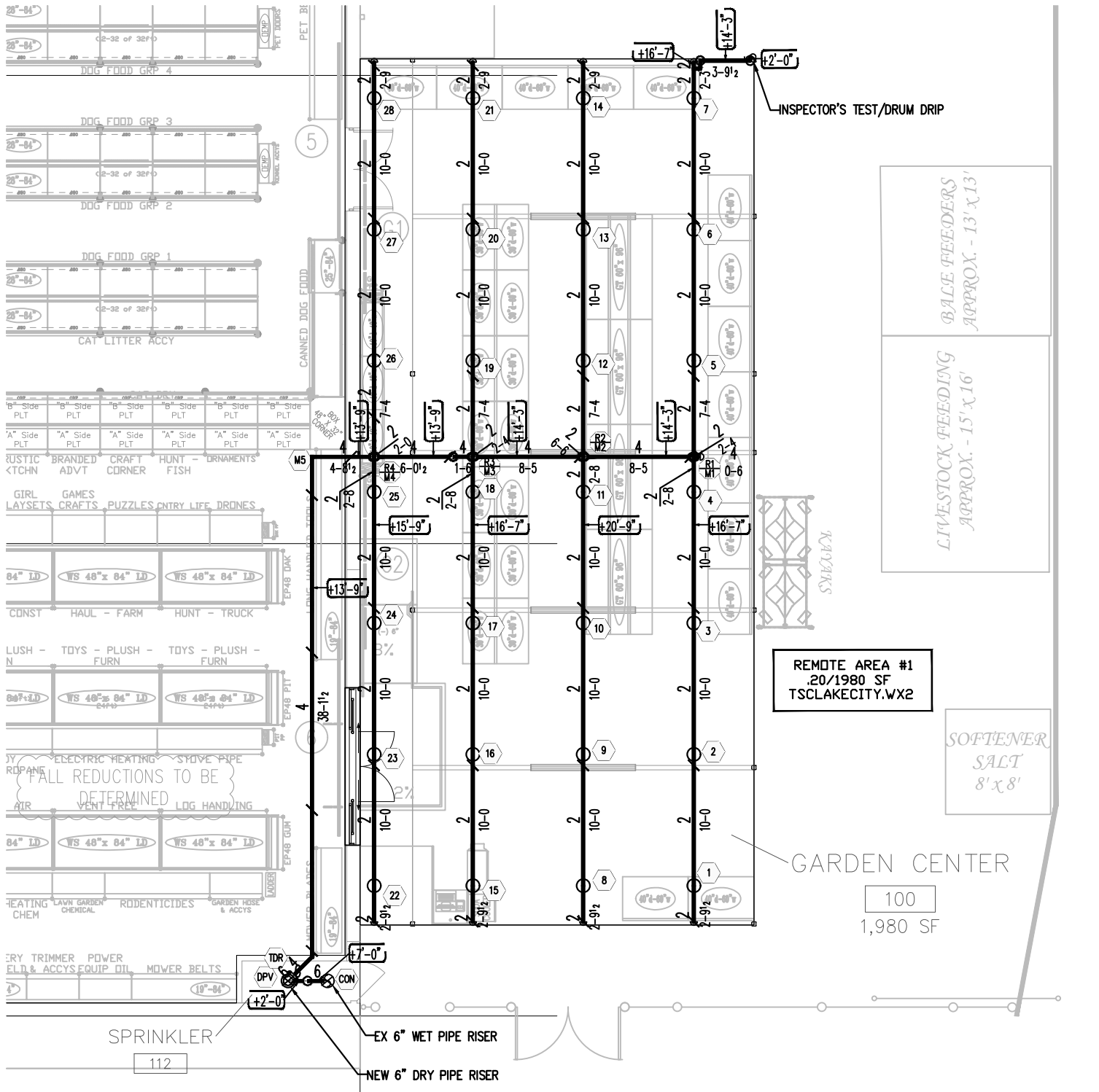


HORIZ. SIDEWINDER STEEL SCREW
SCALE: NOT TO SCALE

MAXIMUM DISTANCE BETWEEN HANGERS

NOMINAL PIPE SIZE (IN.)	.5	1"	1.25"	1.5"	2"	2.5"	3"	3.5"	4"	5"	6"	8"
STEEL PIPE (EXCEPT THRD. LIGHTWALL)	N/A	12'-0"	12'-0"	12'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"

NOTE: HANGER LOCATION FROM THE FIRE SPRINKLER HEAD AT THE END OF BRANCH LINE TO BE AT MAX 1'-0" FROM FIRE SPRINKLER HEAD
ALL HANGERS SHOWN ON THE DRAWING ARE DIAGRAMMATIC ONLY. HANGERS ARE TO BE INSTALLED AS PER THE SCHEDULE ABOVE.



FIRE PROTECTION FLOOR PLAN
SCALE: 3/32"=1'-0"

PROJECT:	TRACTOR SUPPLY GREENHOUSE 5359 US HWY 90 LAKE CITY, FL 32055	SHEET FP-1 DWG FILE: -
bender & modin FIRE SPRINKLER, INC 170-G College Drive Orange Park, Florida 32065 Phone (904)298-2637 Fax (904)298-3100		
DRY SYSTEM FIRE SPRINKLER PLAN		