

NOM. PIPE SIZE (in.)	90° BEND	45° BEND	22.5° BEND	11.25° BEND	SIZE ON SIZE TEE*	VALVE DEAD- END
4	26ft	11ft	5ft	3ft	18ft	61ft
6	36ft	15ft	7ft	4ft	43ft	86ft
8	46ft	19ft	9ft	5ft	68ft	112ft
10	55ft	23ft	11ft	6ft	91ft	135ft
12	64ft	27ft	13ft	7ft	114ft	159ft
14	73ft	30ft	15ft	7ft	137ft	182ft
16	81ft	34ft	16ft	8ft	159ft	205ft

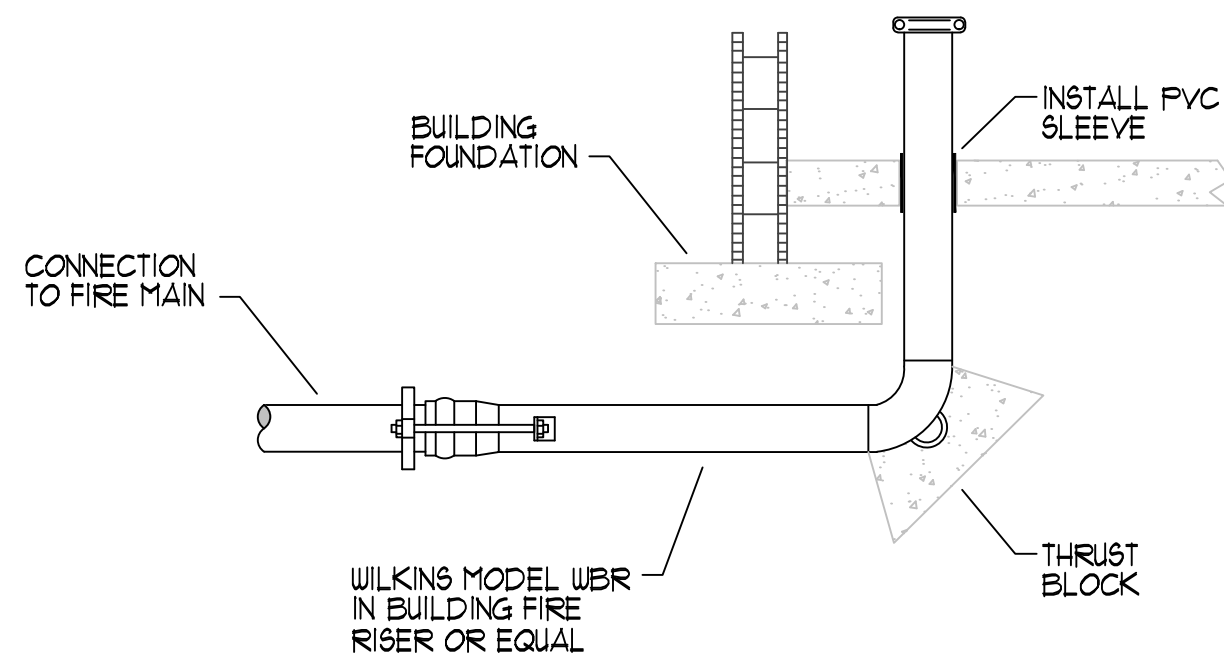
PIPE: PVC, AWWA C-900, DR-18, DR-14
SOIL: GM & SM SILTY GRAVELS AND SILTY SANDS, GRAVEL-SAND-SILT MIXTURES, SAND-SILT MIXTURES.
AVERAGE DEPTH OF BURY: 3ft
TRENCH TYPE: 3
TEST PRESSURE: 200psi
SAFETY FACTOR: 1.5:1 (BASED ON TEST PRESSURE)



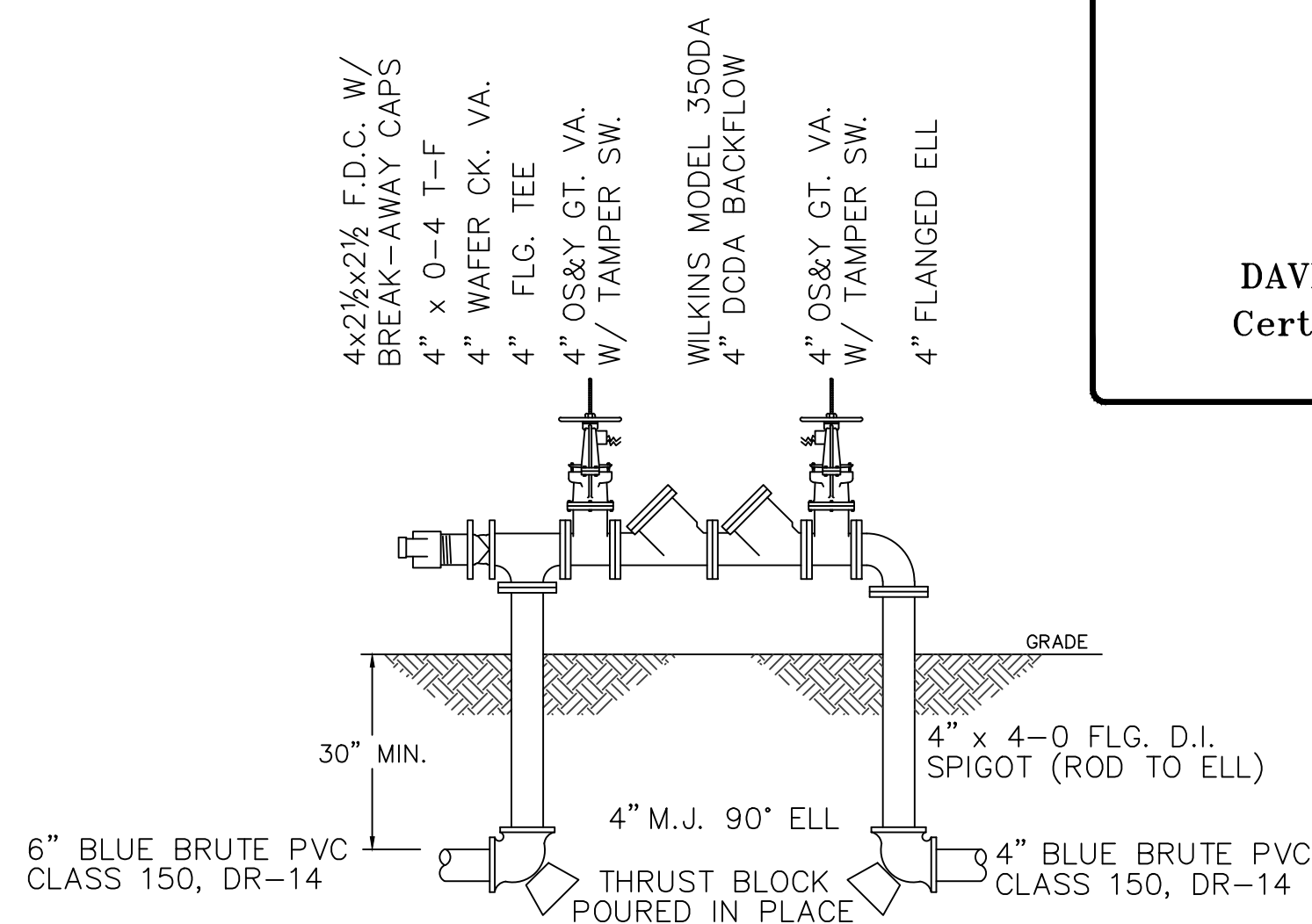
- 1) ALL FIRE MAINS SHALL HAVE A MINIMUM OF 30" COVER FROM GRADE, 36" COVER UNDER DRIVEWAYS, AND 48" COVER UNDER RAILROADS. PIPE SHALL BE 12" MINIMUM WALL THICKNESS WHEN COMPLETED.
- 2) WHEN CROSSING SEWER MAINS CROSS WITH LESS THAN 18 INCHES VERTICAL CLEARANCE OR 10 FEET HORIZONTAL CLEARANCE, ALL P.V.C. PIPE SHALL HAVE A 20' FOOT SECTION OF CROSSING.
- 3) UNLESS NOTED, ALL FIRE MAINS TO BE DR18, C-900 PVC WITH SJC CONNECTIONS, BELL RESTRAINTS SHALL BE LOCATED AS NOTED ON PLANS. PIPE SHALL BE 12" MINIMUM WALL THICKNESS, CLASS 50/51, ALL PIPE CONNECTIONS TO BE PUSH-ON, NOT ALL FITTINGS TO BE DUCTILE IRON MECHANICAL JOINT TYPE.
- 4) ALL FIRE MAINS SHALL BE LOCATED AT LEAST 10 FEET FROM UTILITY ONLY. IT SHALL BE THE FOREMAN'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES, AND TO RECORD THE VERTICAL LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES, WHETHER SHOWN OR NOT (SEE NOTE #2).
- 5) FORMS SHALL BE CALLED UNLESS OTHERWISE NOTED OR C.A.N.D.Y. AT 1-800-282-8881 48 HOURS (EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS) PRIOR TO THE START OF WORK FOR ALL FIELD LOCATIONS OF ALL EXISTING UTILITIES.
- 6) ALL PIPING TO BE INSTALLED AND ANCHORED UTILIZING BELL AND FLANGE CONNECTIONS IN ACCORDANCE WITH THE CHART SHOWN, AND NFPA 24.
- 7) ALL PIPING TO BE PRESSURE TESTED AT 200 P.S.I. FOR AT LEAST 15 MINUTES. THE PRESSURE SHALL BE MAINTAINED AT THIS PRESSURE WHEN THE MAXIMUM STATIC PRESSURE IS 150 P.S.I. OR LESS.
- 8) THOROUGHLY FLUSH ALL UNDERGROUND MAINS AND LEAD-INS.
- 9) RETURN ALL TEST PAPERS AND DIMENSIONED "AS BUILT" PLANS TO THE OWNER. ADVISE ANY FIELD CHANGES FOR THE PURPOSE OF RECORD KEEPING.
- 10) AFTER INSTALLATION, ALL RODS, NUTS, BOLTS, WASHERS AND BRACKET SHALL BE CLEANED AND PAINTED TO PREVENT RUST, BURSTING OR OTHER ACCEPTABLE CORROSION-RELATED DAMAGE.
- 11) ALL ELECTRICAL WIRING TO BE DONE BY OTHERS

- U1 CONNECT TO EXISTING 8" WATER MAIN WITH AN 8"x4" TAPPING VALVE AND SLEEVE
- U2 4" ZURN/WILKINS 350DA DCDA BACKFLOW PREVENTER WITH 4"x2"x2" FIRE DEPARTMENT CONNECTION
- U3 WILKINS MODEL WBR 4" IN-BUILDING RISER (72"x72") FOREMAN TO COORDINATE LOCATION IN THE FIELD.
- U4 4" POST INDICATOR VALVE
- U5 4" GATE VALVE
- U6 4"x4"x2" REDUCING TEE FOR DOMESTIC

WT	4" 90° ELL
WB	4" 11.25° ELL
WB	2" DOMESTIC (BY OTHERS)
WO	CONNECT TO EXISTING 8" WATER MAIN WITH AN 8"x6" TAPPING VALVE AND SLEEVE (BY OTHERS)
WI1	NEW 6" FIRE HYDRANT ASSEMBLY WITH GATE VALVE (BY OTHERS)
WI2	6" GATE VALVE (BY OTHERS)



N.T.S



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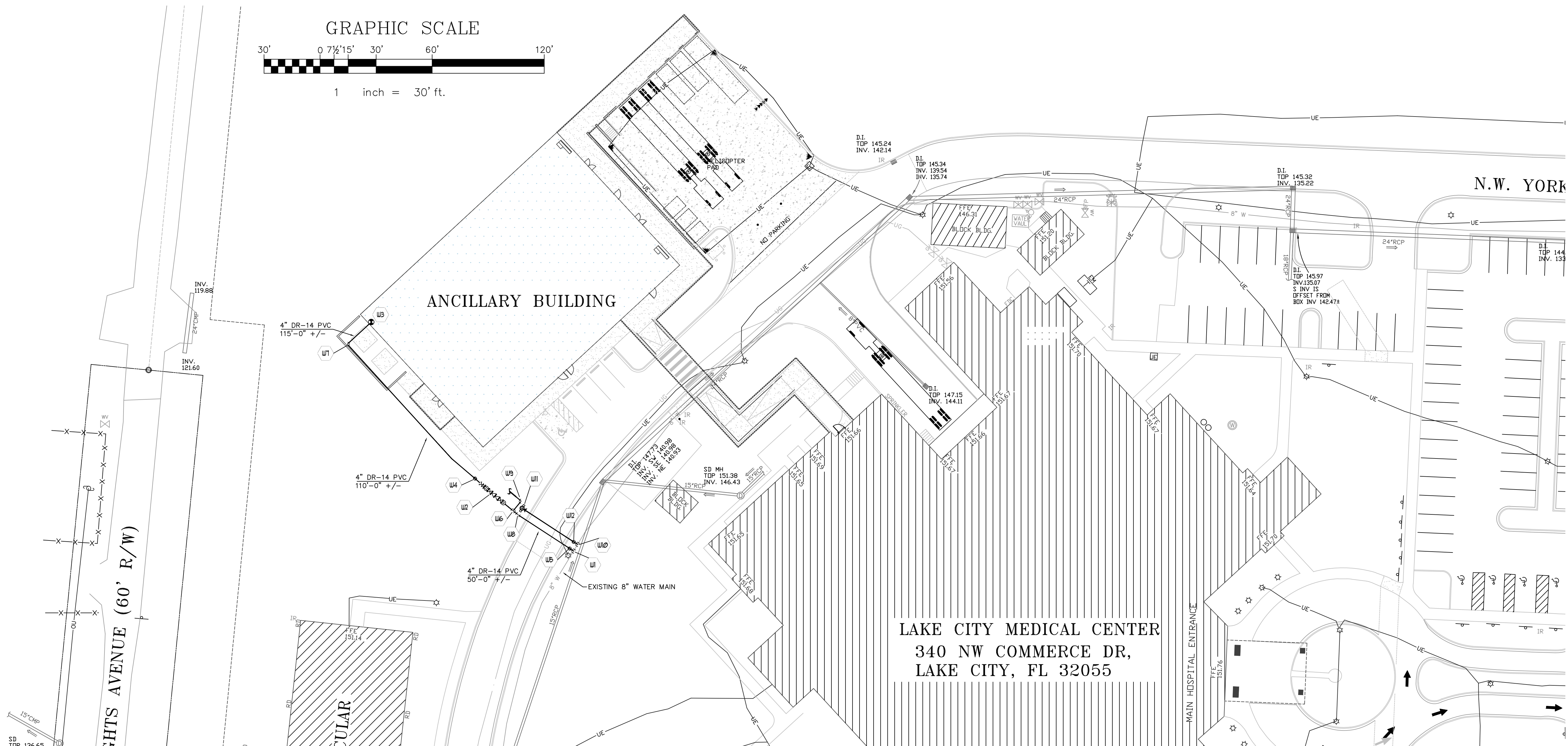
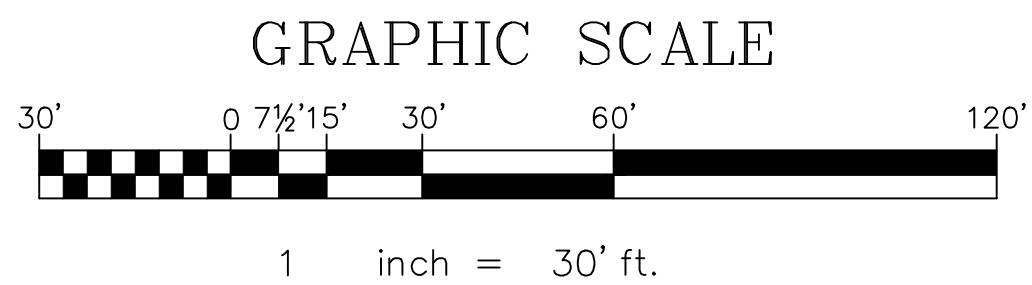


DAVID L. BLAKE, CET
Certification Number
103056

A FLOW TEST WAS CONDUCTED ON DECEMBER 6, 2021
BY LAKE CITY

STATIC PRESSURE: 84 PSI
RESIDUAL PRESSURE: 73 PSI
FLOW AT TEST: 1055 GP

SEE FIRE SPRINKLER PLANS FOR MORE DETAIL



SCALE: 1" = 30'-0"

HYDRAULIC CALCULATIONS	
DESIGN AREA #	
LOCATION	
DENSITY	
DESIGN AREA	
PSI REQ @ TEST	
QPM REQ @ TEST	
OVERHEAD C-FACTOR	
UNDG C FACTOR	
# HEADS CALCULATED	

DESIGN CRITERIA	
DESIGN AREA	
SYSTEM	
TYPE OF SYSTEM	
DENSITY / G.P.M.	
DESIGN AREA S.F.	
AREA PER SPRINKLER	
SPRINKLER K FACTOR	
INSIDE HOSE	
OUTSIDE HOSE	

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ANCILLARY BUILDING LAKE CITY MEDICAL CENTER 340 NW COMMERCE DR LAKE CITY, FLORIDA 32055	
CONTRACT NO:	
DRAWN BY: DAVID L. BLAKE, CET	DATE: JUNE 9, 2022
TOTAL SPINDLES ON JOB: 0	SCALE: AS NOTED
CONTRACT NO:	MUSIC: PASCO COUNTY