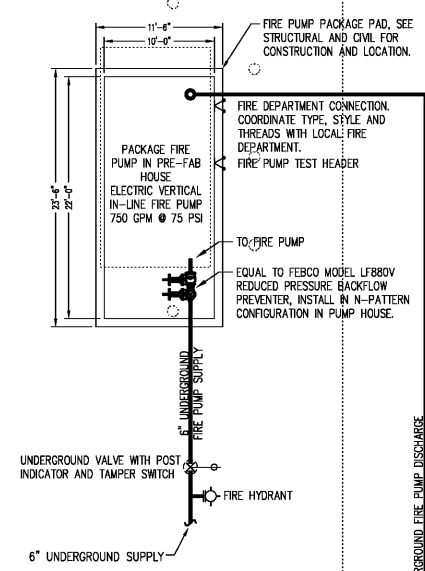


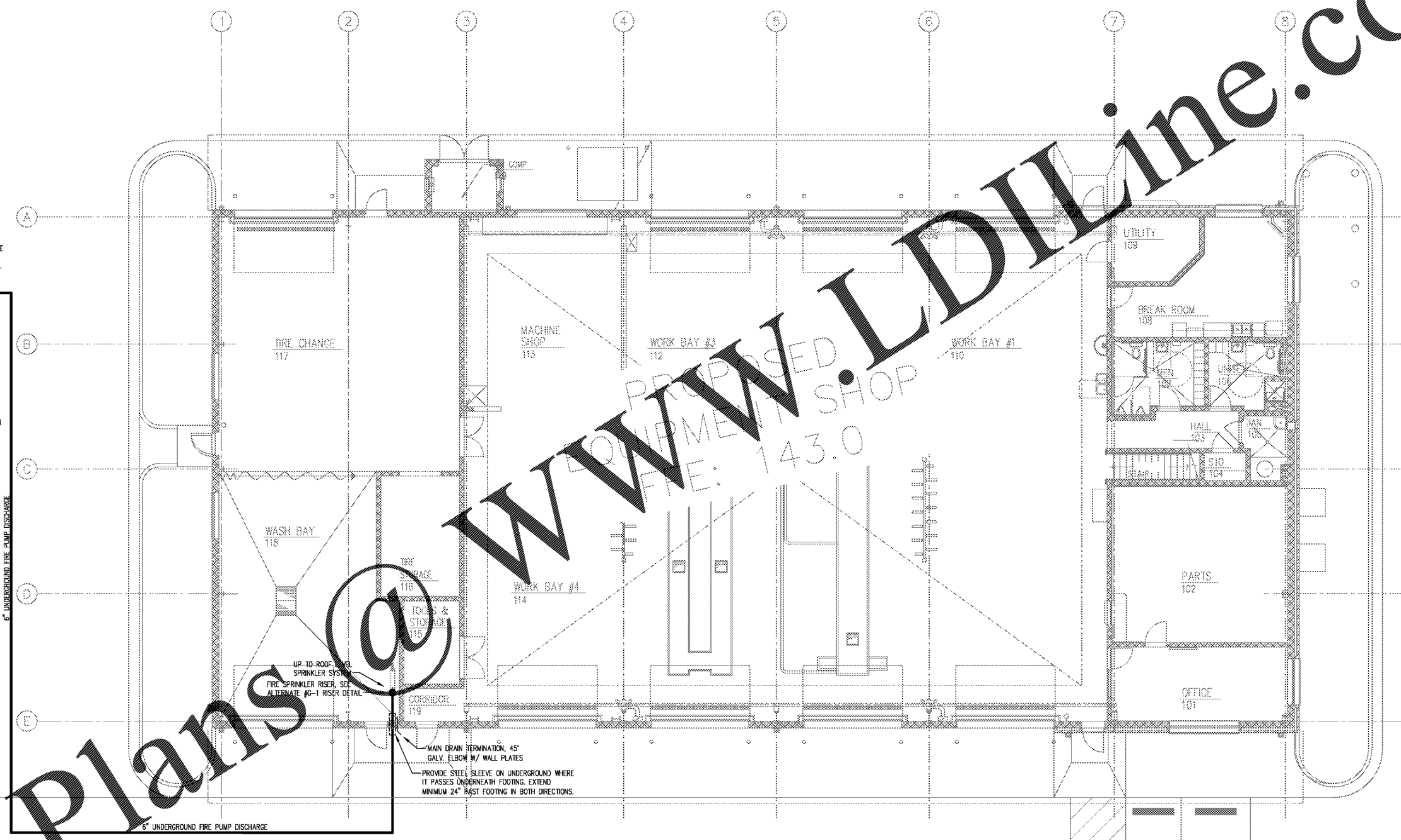
PUMP DESIGN TRAIL:  
 QH2 = .20/1500 + 250 HOSE  
 +30% INCREASE FOR ROOF SLOPE  
 = 1950 x .20 = 390 GPM x 1.4 OVERAGE = 546 GPM  
 + 250 HOSE = 796 GPM TOTAL

TIRE STORAGE = .32/2000 + 750 HOSE  
 (APPLICATION OVER ENTIRE AREA 196.44)  
 +30% INCREASE FOR ROOF SLOPE  
 = 255.37 x .32 = 82 GPM x 1.4 OVERAGE = 115 GPM  
 + 750 HOSE = 865 GPM TOTAL

PUMP SIZE BASED ON SPRINKLER SYSTEM FLOW ONLY.

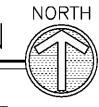


NOTE:  
 CONTRACTOR SHALL COORDINATE FINAL PAD AND FOUNDATION SIZES FOR BOTH FIRE PUMP PACKAGE AND HOT BOX ENCLOSURE WITH PROVIDED EQUIPMENT. SIZES SHOWN ARE BASED ON EQUIPMENT SELECTED DURING THE DESIGN AND ARE FOR INTENT ONLY.



ALTERNATE #G-1 SCOPE NOTE:  
 UNDER ALTERNATE #1 THE FIRE PROTECTION CONTRACTOR SCOPE OF WORK BEGINS AT 12" AFF INSIDE THE FIRE PUMP HOUSE AND INCLUDES ALL WORK, BOTH ABOVE AND BELOW GROUND FROM THAT POINT FORWARD FOR A FULLY FUNCTIONING SYSTEM.

1 ALTERNATE #G-1 - FIRE PUMP - FIRE PROTECTION  
 SCALE: 1/8" = 1'-0"



BIDDING DOCUMENTS

DESIGNED BY: FACILITIES DESIGN ARCHITECTS & ENGINEERS

CONSULTANT: DEVTA

PROJECT TITLE: LUMBERTON EQUIPMENT SHOP NCDOT HIGHWAY DIVISION 6

ALTERNATE #G-1 FIRE PUMP FIRE PROTECTION

STATE CONSTRUCTION ID.# 16-12916-01A

ASSET NUMBER: 78-06-00

REVISIONS NO. DATE

DATE ISSUED: 12/15/2017

DRAWN BY: DRB

CHECKED BY: WLA

SHEET NO. FP2.1

Order Plans @