

DESIGN TEAM:

LEAD DESIGN ENGINEER NORRIS & TUNSTALL

CONSULTING ENGINEERS, P.C.

PHONE (910) 343-9653 902 MARKET STREET WILMINGTON, NC 28401 FAX (910) 343-9604 office@nkteng.com licence #C-3641

OWNER

CFPUA

JEFF THEBERGE PROJECT MANAGER 235 GOVERNMENT CENTER DR. **WILMINGTON, NC 28403** 910 332-6673

ELECTRICAL

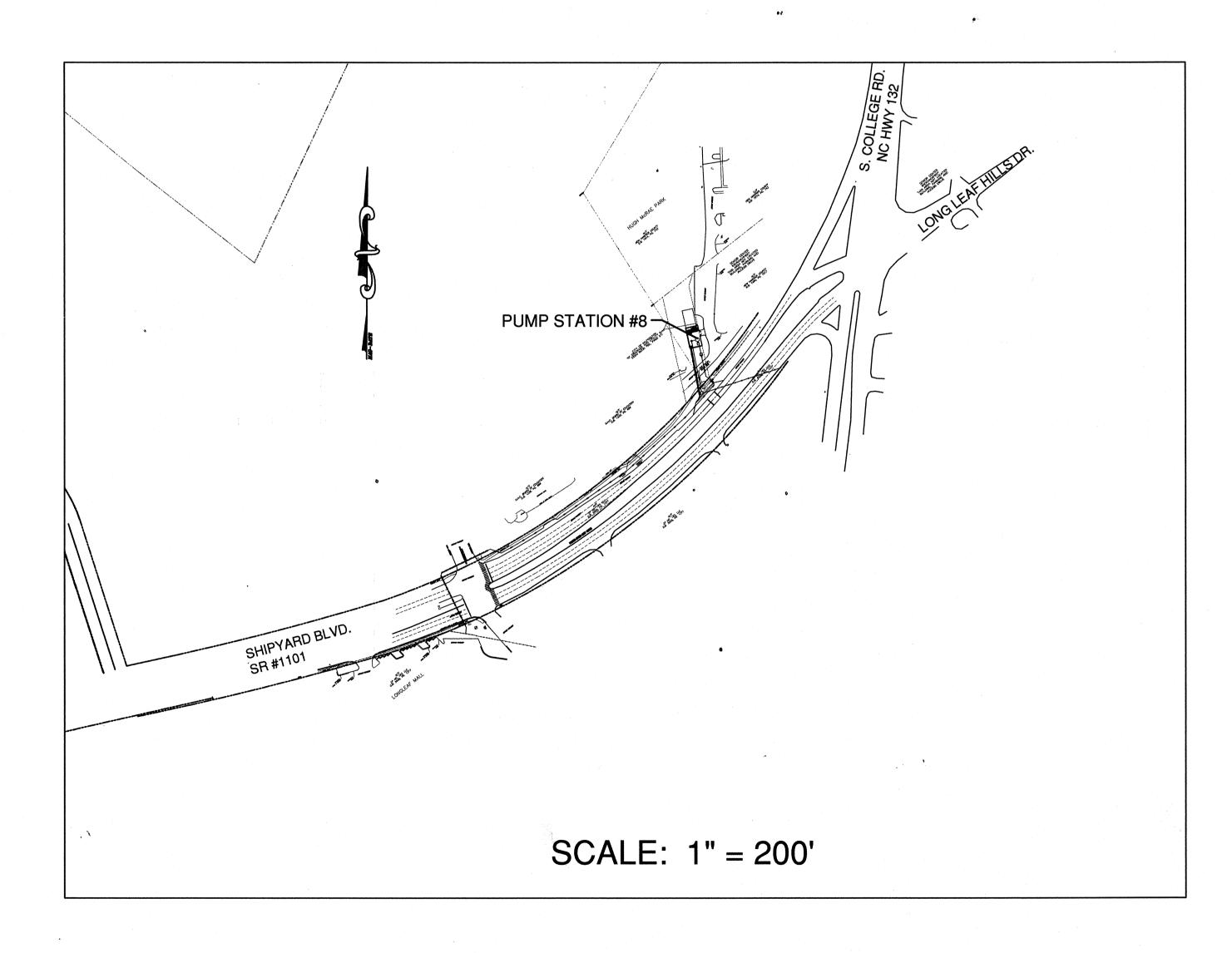
CHEATHAM & ASSOCIATES, PA **CONSULTING ENGINEERS** 3412 ENTERPRISE DRIVE **WILMINGTON, NC 28405** 910 452-4210

SURVEYOR

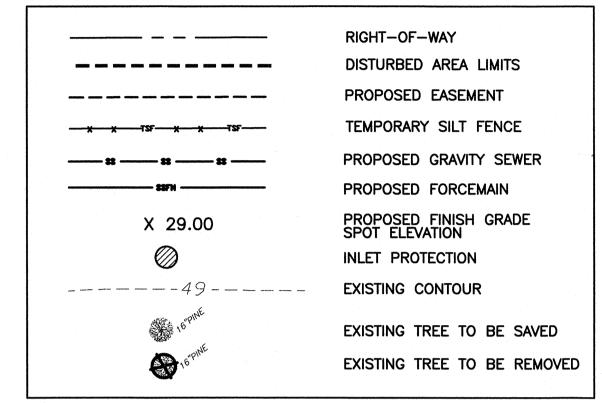
ROBERT H. GOSLEE & ASSOCIATES, PA LAND SURVEYORS — LAND PLANNERS FIRM LICENSE NUMBER: C-1167 513 CHESTNUT STREET WILMINGTON, NORTH CAROLINA 28401 910-763-1941 rhgilm@bellsouth.net FILE No.: 61100101

CAPE FEAR PUBLIC UTILITY AUTHORITY PUMP STATION 8 DESIGN

CFPUA CIP #14S283 CFPUA MAP #131611.002 SHIPYARD BOULEVARD NEW HANOVER COUNTY WILMINGTON, N. C. 15 JULY 2016



PROJECT LEGEND



SURVEY LEGEND

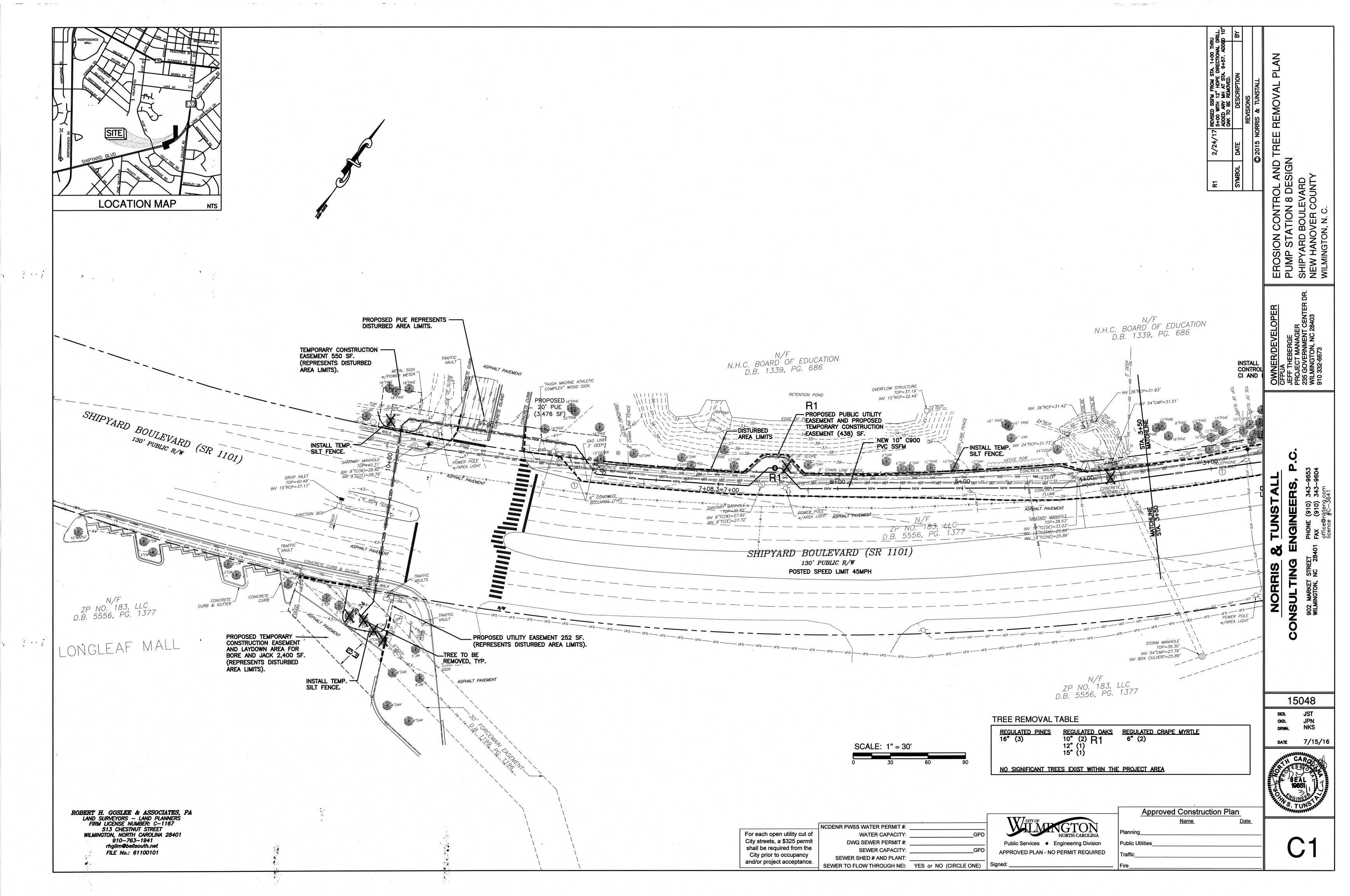
	RIGHT OF WAY
	EDGE OF PAVEMENT LINE
directed appropriate designation formation appropriate linear many appropriate valuations	EASEMENT LINE
X X	FENCE
O	GUARD RAIL
	OVERHEAD POWER LINE
periodical and a second of the	UNDERGROUND CABLE TV LINE
	UNDERGROUND ELECTRIC LINE
	UNDERGROUND FIBER OPTIC LINE
	UNDERGROUND GAS LINE
UGT	UNDERGROUND TELEPHONE
ASSESSMENT I PROFESSION I PROFESSION I PROFESSION I PROFESSION I PROFESSION I	UNDERGROUND TRAFFIC SIGNAL
	UNDERGROUND WATER LINE
TABLES OFFICE STATES OF ST	STORM SEWER PIPE
25 manuscrape SS	SANITARY SEWER PIPE
FM FM FM.	FORCE MAIN PIPE
TRA TRA	UNDERGROUND TRAFFIC LINE

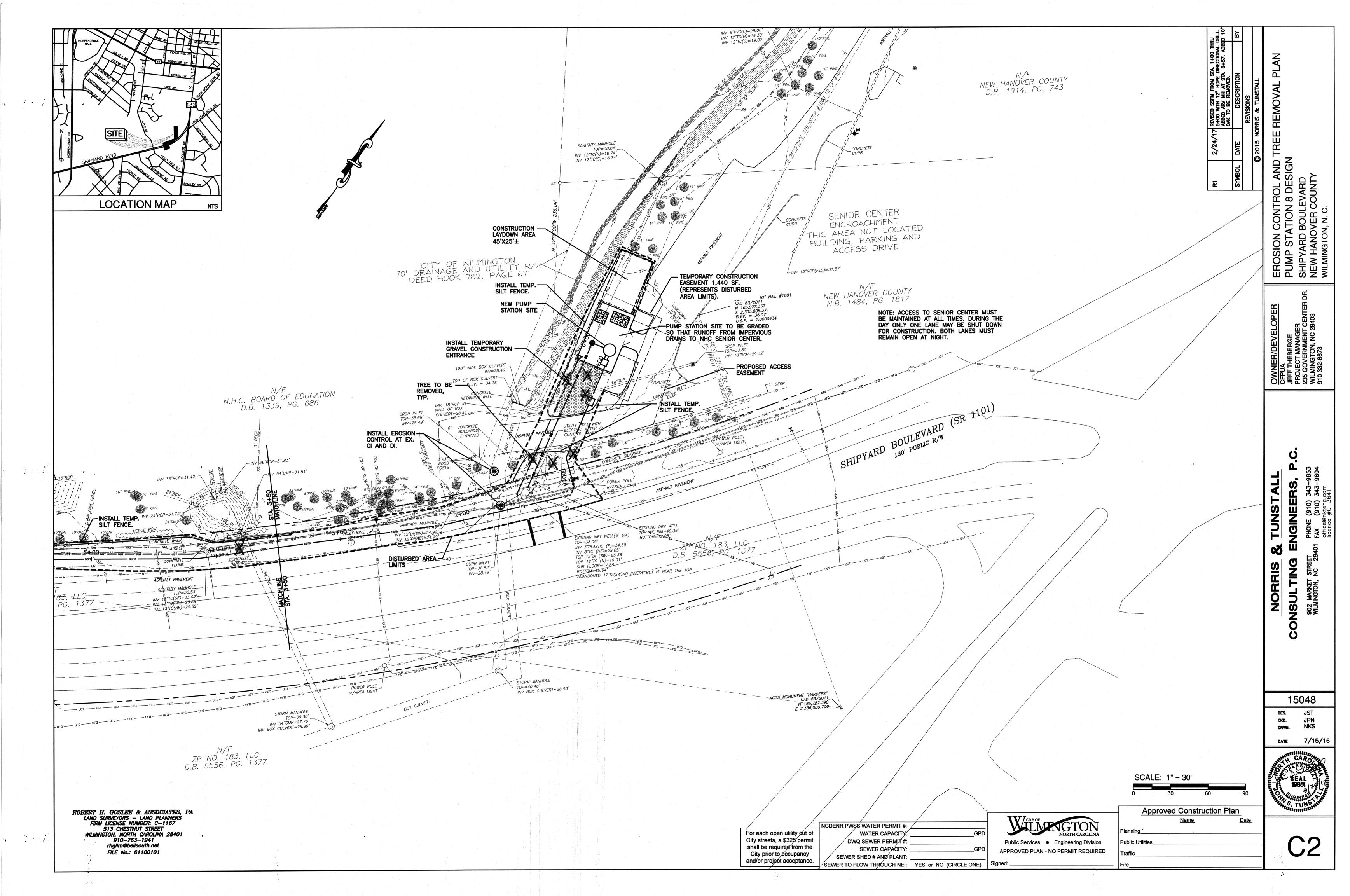
INDEX OF SHEETS

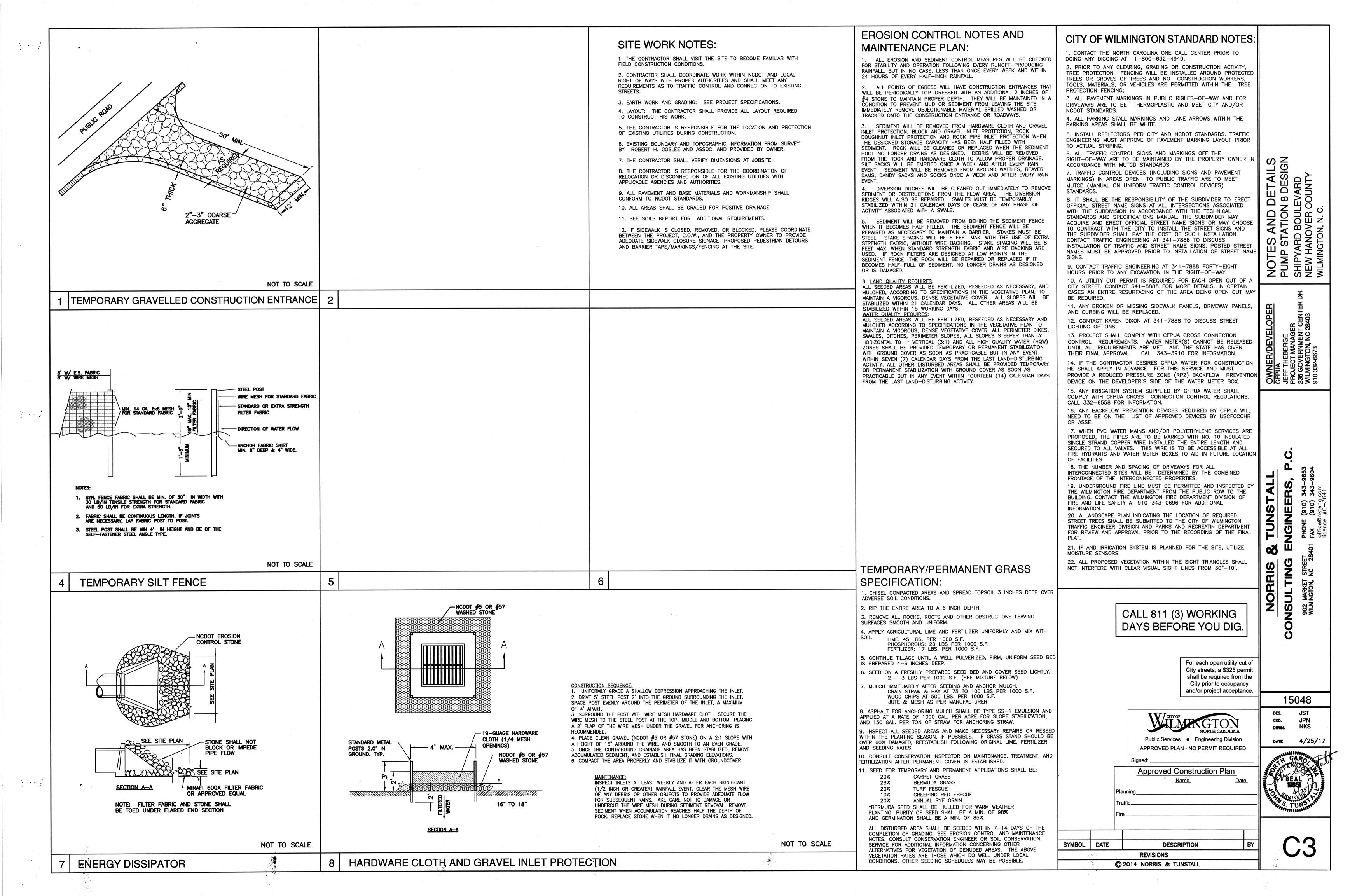
EROSION CONTROL AND TREE REMOVAL PLAN EROSION CONTROL AND TREE REMOVAL PLAN NOTES AND DETAILS SSFM PLAN AND PROFILE SSFM PLAN AND PROFILE GRAVITY SEWER PLAN AND PROFILE LIFT STATION SITE PLAN LIFT STATION DETAILS SANITARY SEWER STANDARD DETAILS SSD-2: SANITARY SEWER STANDARD DETAILS SSD-3: SANITARY SEWER STANDARD DETAILS **SUPPLEMENTAL SHEETS:** (1) EXISITING LIFT STATION #8 AS BUILT DETAILS (2) EXISTING LIFT STATION #8 AS BUILT PROFILES

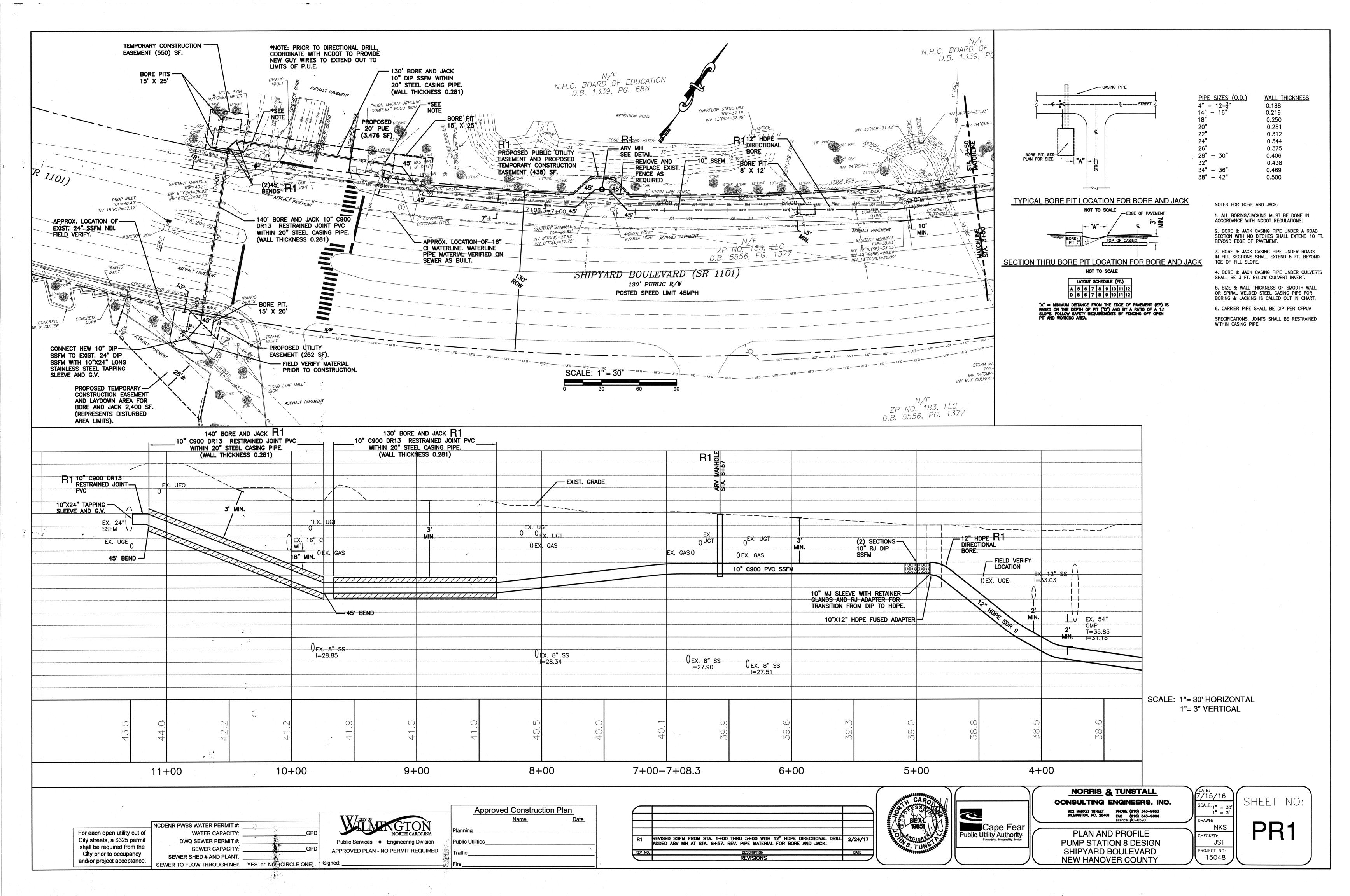
SEWER QUANTITIES FOR PROJECT

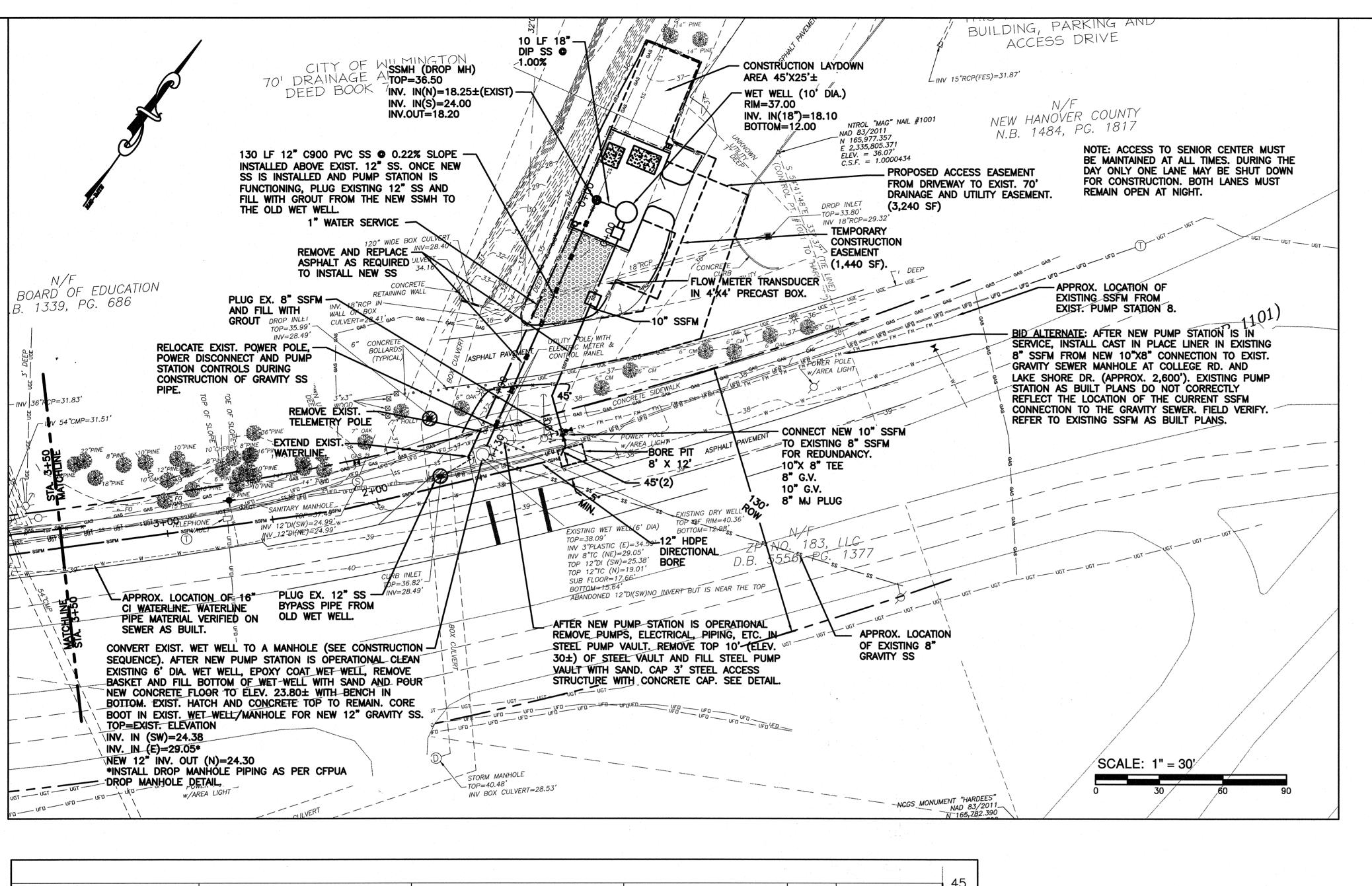
130 LF 12" **GRAVITY SANITARY SEWER:** 10 LF 18" **GRAVITY SANITARY SEWER:** SANITARY SEWER FORCEMAIN: 1,130 LF 10"

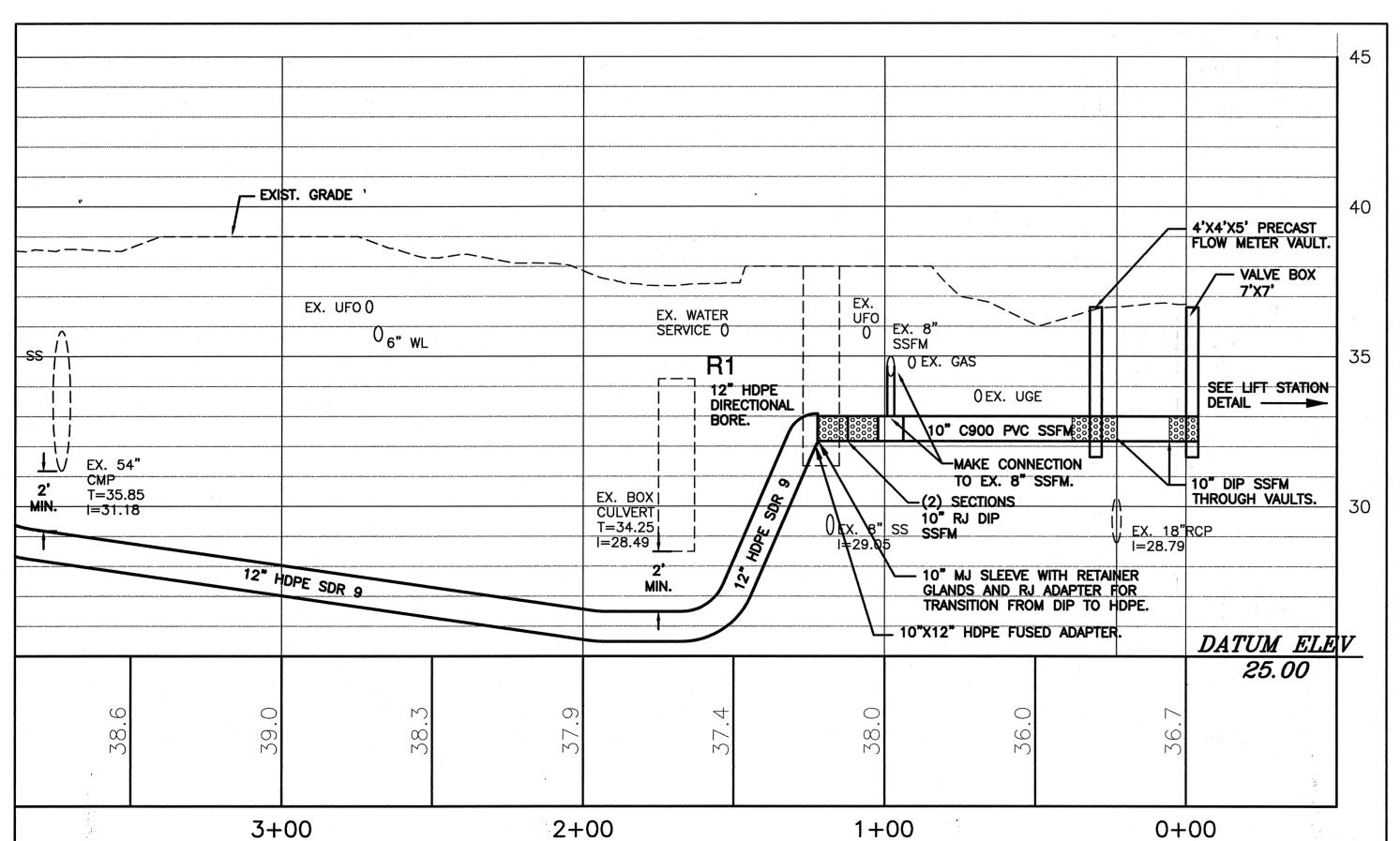






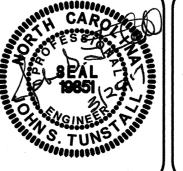






SCALE: 1"= 30' HORIZONTAL 1"= 3" VERTICAL

		-
R1	REVISED SSFM FROM STA. 1+00 THRU 5+00 WITH 12" HDPE DIRECTIONAL DRILL ADDED ARV MH AT STA. 6+57. REV. PIPE MATERIAL FOR BORE AND JACK.	2/24/17
REV NO.	DESCRIPTION	DATE
	REVISIONS	





PLAN AND PROFILE
PUMP STATION 8 DESIGN
SHIPYARD BOULEVARD
NEW HANOVER COUNTY

DATE: 7/15/16	CHEET
SCALE: 1" = 30' 1" = 3'	SHEET
DRAWN:	

NCDENR PWSS WATER PERMIT #

WATER CAPACITY

SEWER CAPACITY

SEWER TO FLOW THROUGH NEI: YES or NO (CIRCLE ONE)

Approved Construction Plan

DWQ SEWER PERMIT #

SEWER SHED # AND PLANT:

For each open utility cut of

City streets, a \$325 permit

shall be required from the

City prior to occupancy

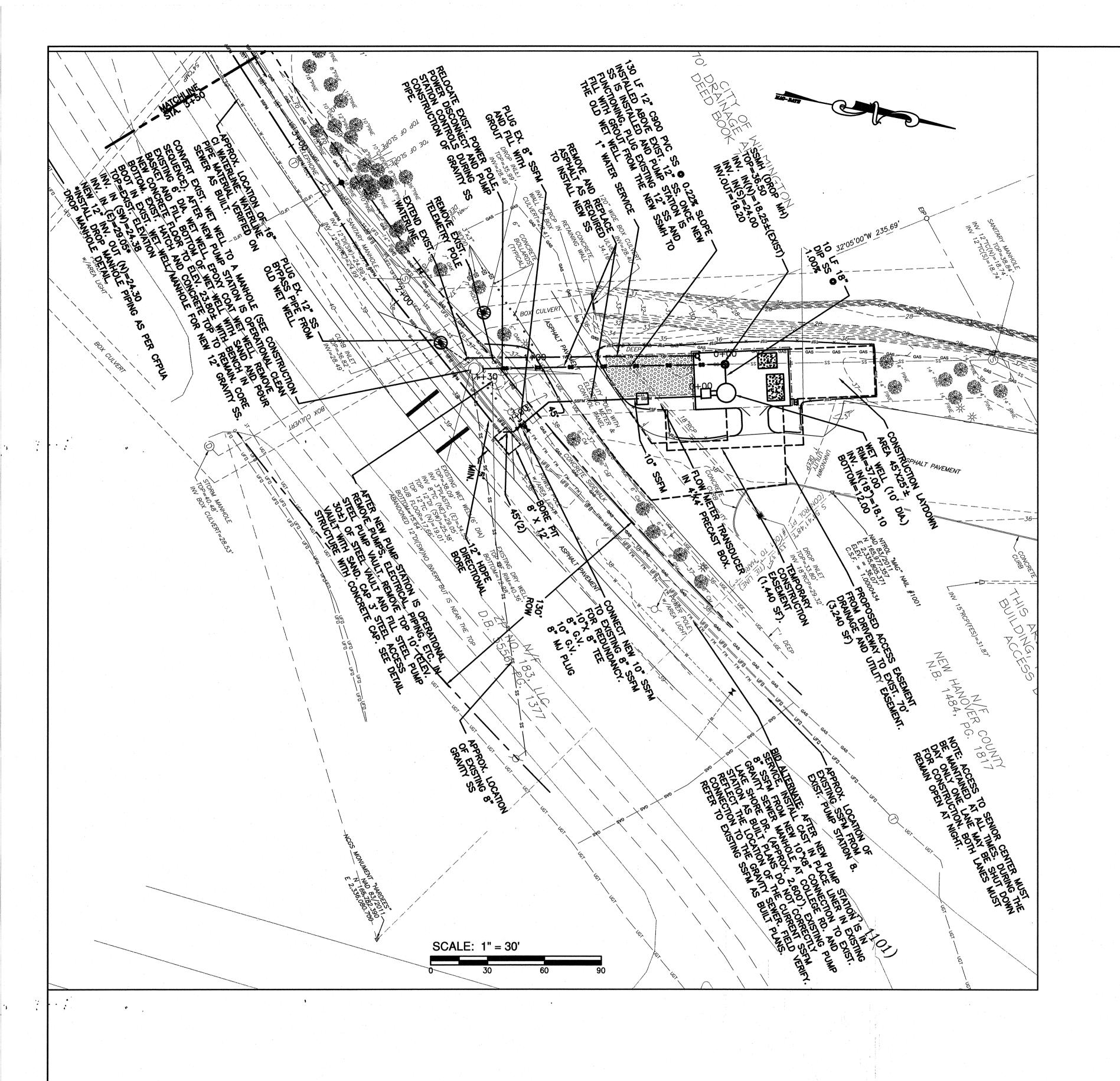
and/or project acceptance.

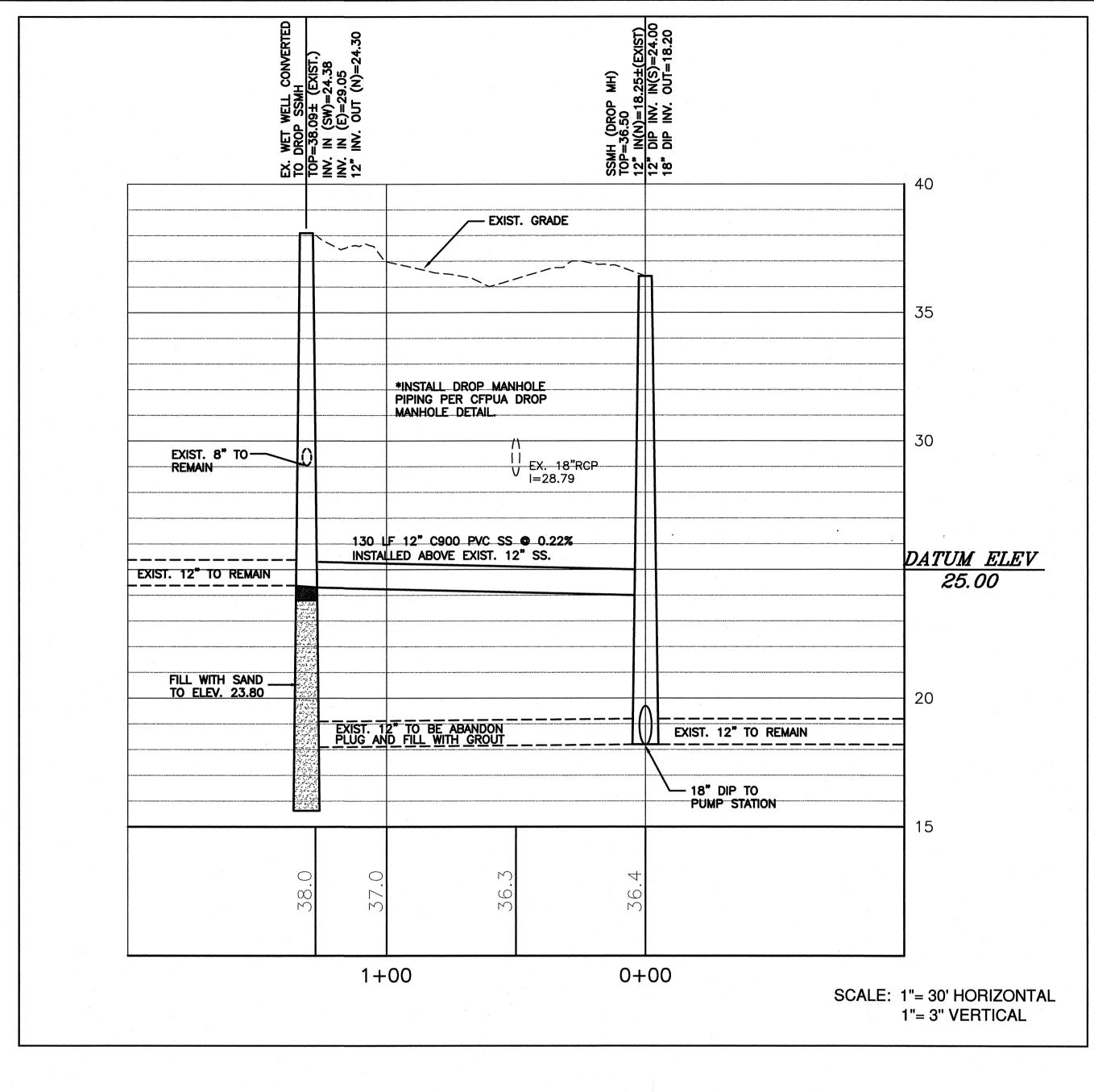
Public Services • Engineering Division

APPROVED PLAN - NO PERMIT REQUIRED

PROJECT NO:
15048

PROJECT NO:
15048



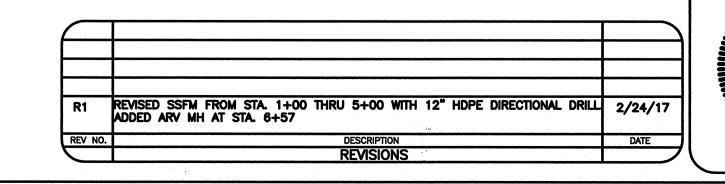


For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

NCDENR PWSS WATER PERMIT #: WATER CAPACITY: DWQ SEWER PERMIT #: SEWER CAPACITY: SEWER SHED # AND PLANT: SEWER TO FLOW THROUGH NEI: YES or NO (CIRCLE ONE) Signed:

APPROVED PLAN - NO PERMIT REQUIRED

Approved Construction Plan





NORRIS & TUNSTALL

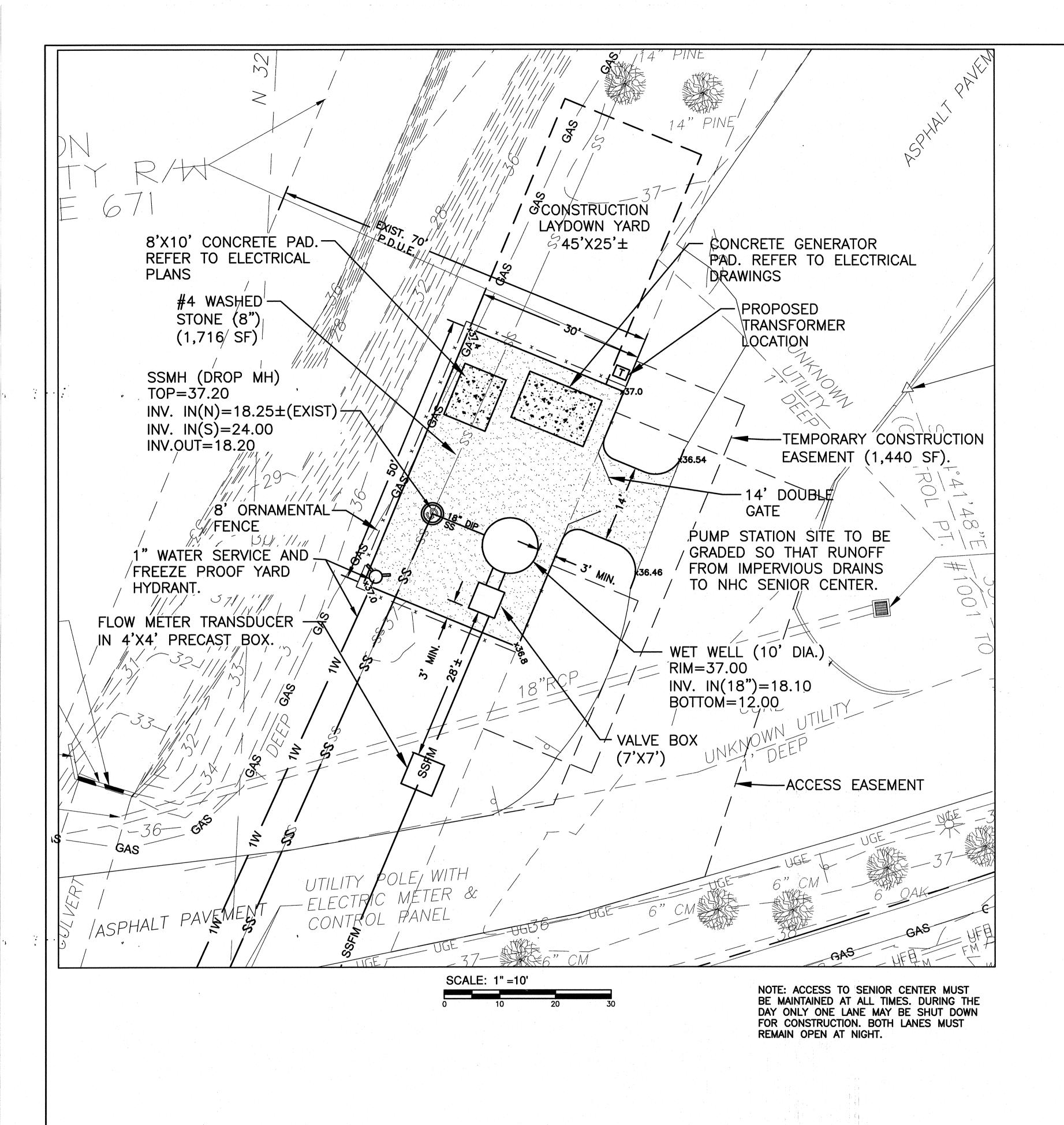
CHECKED:

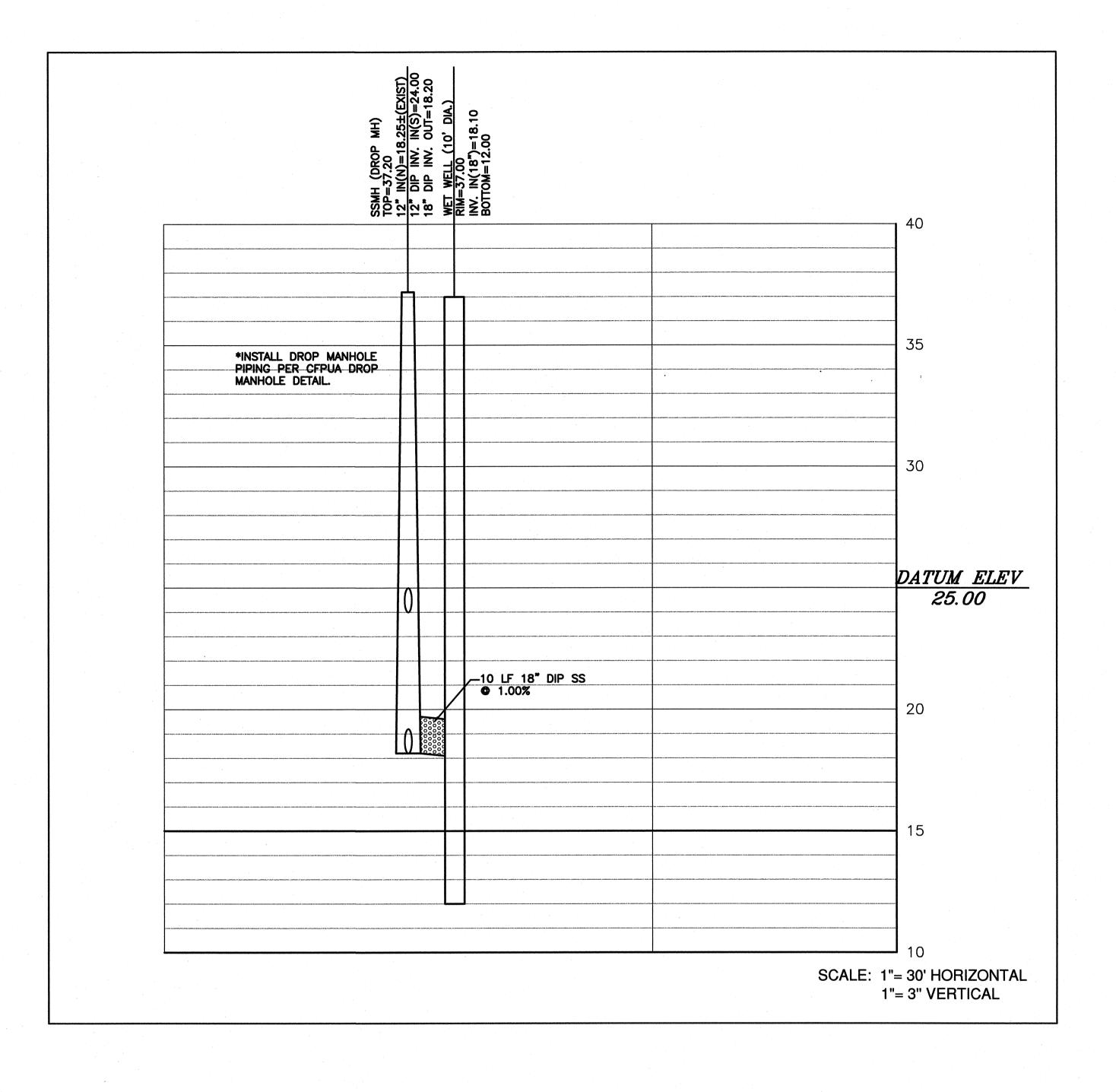
JST

PROJECT NO: 15048

PLAN AND PROFILE
PUMP STATION 8 DESIGN
SHIPYARD BOULEVARD
NEW HANOVER COUNTY

PR3





For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

NCDENR PWSS WATER PERMIT #:

WATER CAPACITY:

DWQ SEWER PERMIT #:

SEWER CAPACITY:

SEWER SHED # AND PLANT:

SEWER TO FLOW THROUGH NEI:

YES OF NO (CIRCLE ONE)

Public Services • Engineering Division

APPROVED PLAN - NO PERMIT REQUIRED

Approved Construction Plan

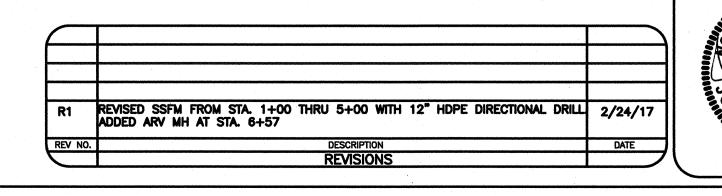
Name

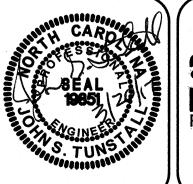
Date

anning

ublic Utilities

raffic







NORRIS & TUNSTALL

CONSULTING ENGINEERS, INC.

902 MARKET STREET PHONE (910) 343-9653
FAX (910) 343-9604
licence #C-0520

DRAWN:

NKS

CHECKED:

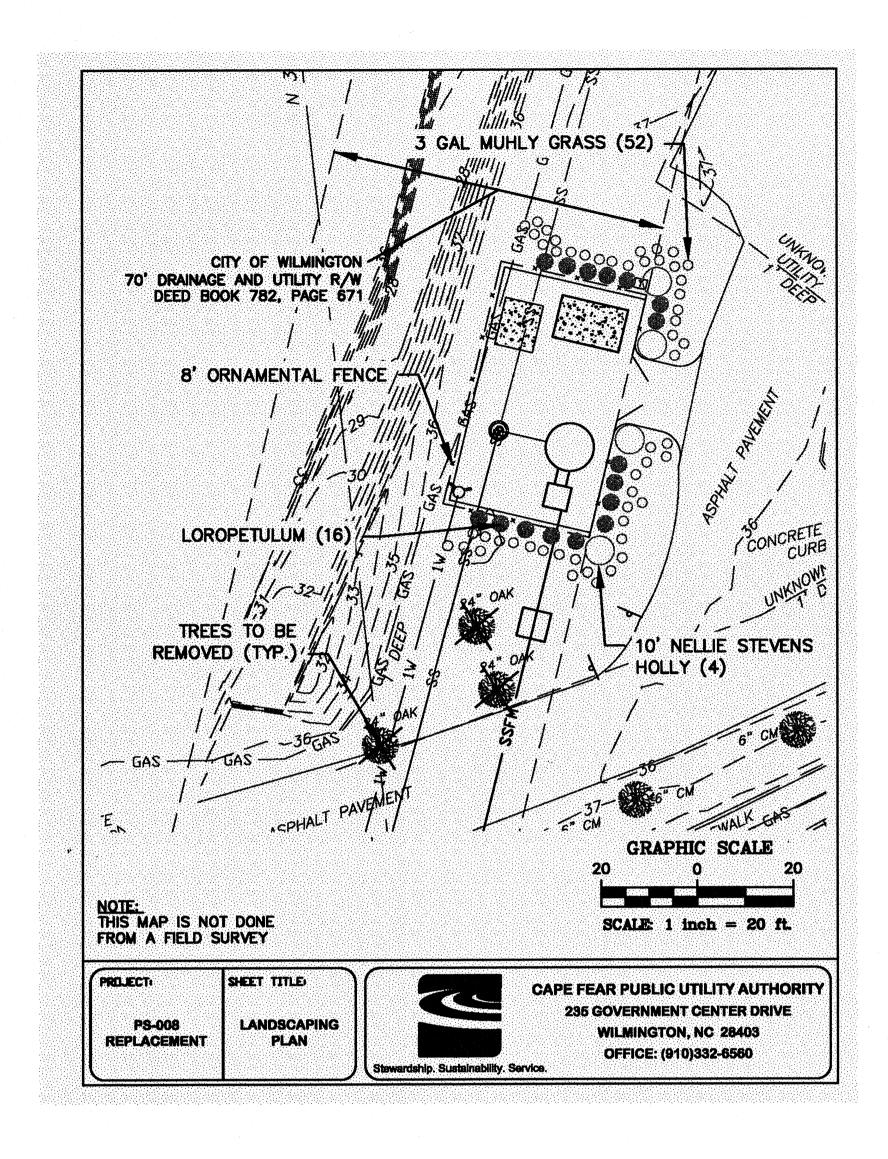
JST

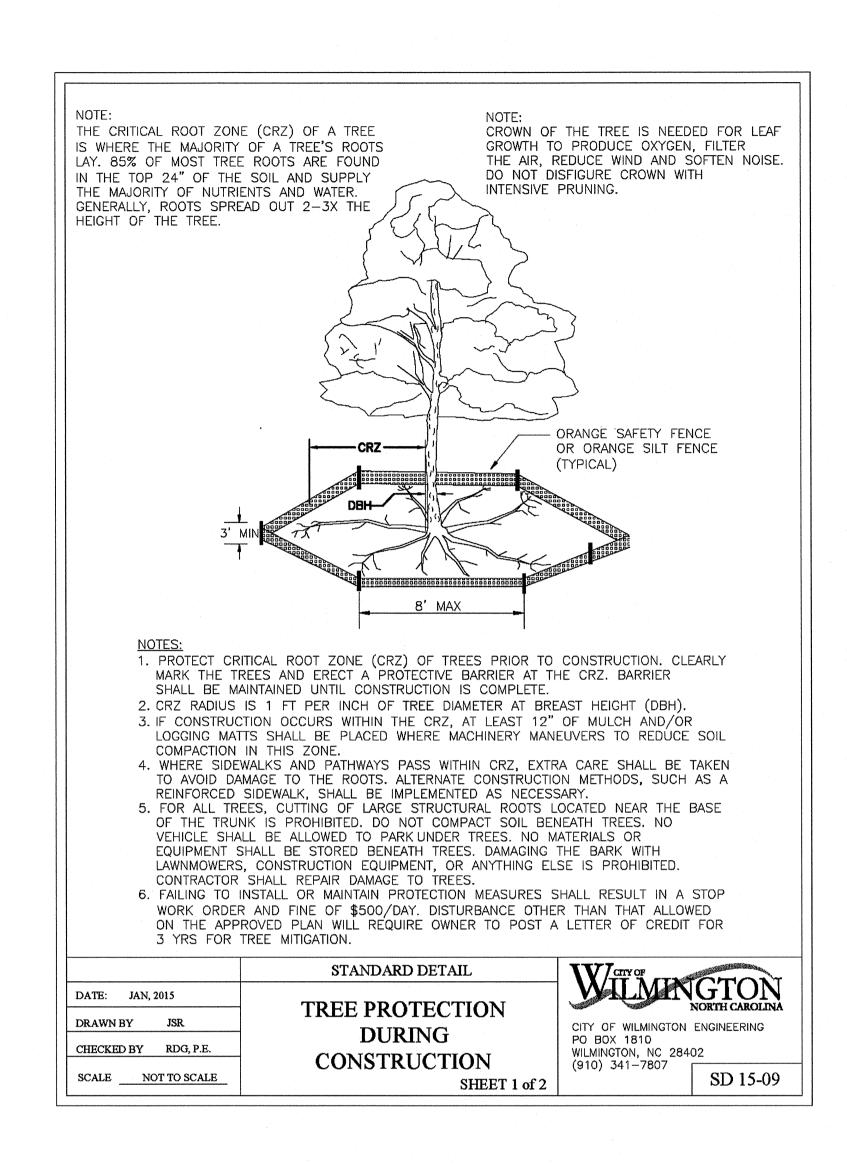
PROJECT NO:

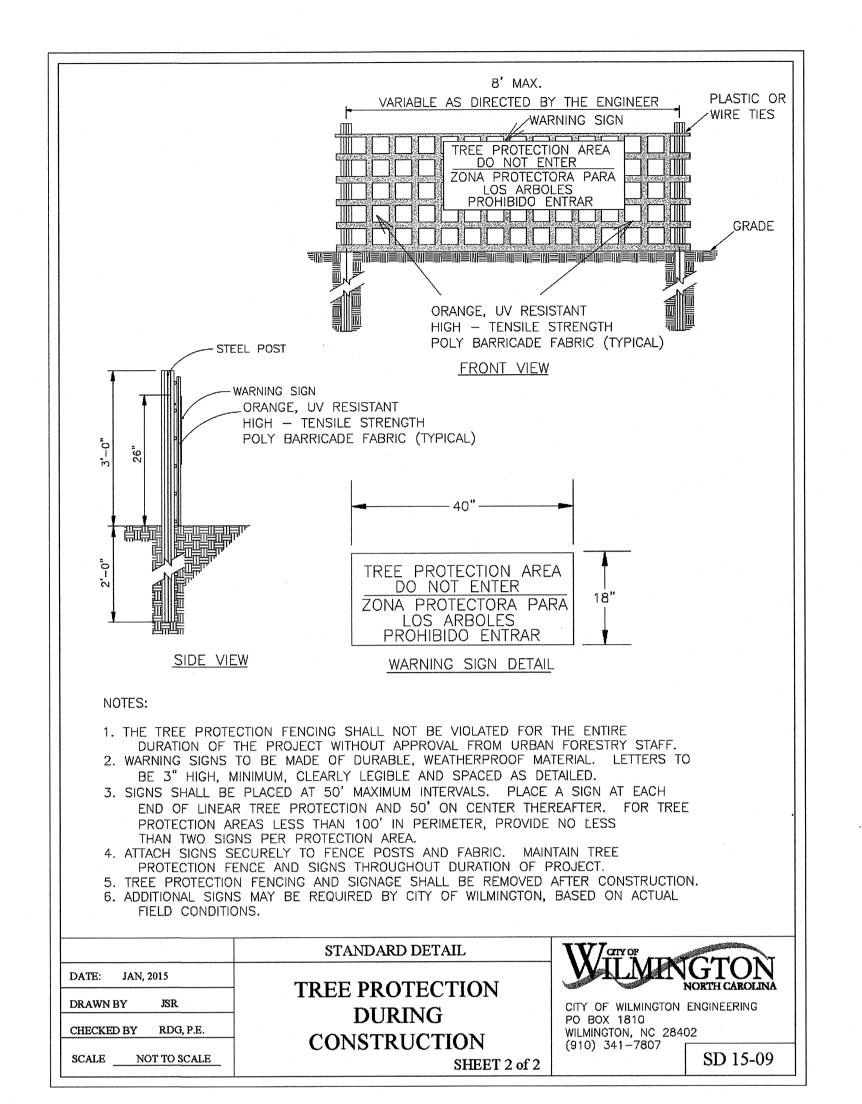
15048

PLAN AND PROFILE
PUMP STATION 8 DESIGN
SHIPYARD BOULEVARD
NEW HANOVER COUNTY

PR4







For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

15048 Public Services • Engineering Division DATE 4/25/17 APPROVED PLAN - NO PERMIT REQUIRED **Approved Construction Plan** DESCRIPTION

SYMBOL , DATE **REVISIONS**