Project ID:	EXPRESS OIL
Location:	ADJ. TO 1800 E FIRE TOWER GREENVILLE, NC 27858
Scope of Work:	Full Civil Takeoff
Date:	

Location: Scope of Work: Date:		ADJ. TO 1800 E FIRE TOWER GREENVILLE, NC 27858 Full Civil Takeoff												
Item#	Ref. Sheet #	ltem Description	Unit	Quantity	Wastage	Quantity w/ Wastage	Unit Material Cost	Total Material Cost	Unit Manhour	Hourly Wage	Unit Labor Cost	Total Labor Cost	Sub Cost	Total Trade Cost
		DIVISION.01 GENERAL REQUIREMENTS												
1		Supervision and Coordination	LS	1	0%	1	\$ -	\$ -	0.000	\$ -	\$ -	\$ -	\$ 12,000.00	
2		Submittals and Shop drawings	LS	1	0%	1	\$ -	\$ -	0.000	\$ -	\$ -	\$ -	\$ 3,000.00	
3		Final Cleaning	LS	1	0%	1	\$ -	\$ -	0.000	\$ -	\$ -	\$ -	\$ 3,500.00	
4		Mobilization Costs	LS	1	0%	1	\$ -	\$ -	0.000	\$ -	\$ -	\$ -	\$ 8,000.00	
5		Temporary Control & Facilities	LS	1	0%	1	\$ -	\$ -	0.000	\$ -	\$ -	\$ -	\$ 5,500.00	
		Subtotal (General Requirements)												\$ 32,000
		DIVISION 02- SITE WORK/ EXISTING CONDITIONS												
		CIVIL EORK- EXPRESS OIL												
		SITE IMPROVEMENTS												
6		ASPHALT PAVEMENT	SF	24312	5%	25528	\$ 1.20	\$ 30.633.12	0.00180	\$ 60.00	\$ 0.11	\$ 2,756.98	\$ 33,390.10	
		2" Thick Asphalt Concrete Surface Wearing Course	SF	24312	5%	25528	\$ 1.20	\$ 71,477.28	0.00180	\$ 60.00	\$ 0.11	\$ 2,756.98		
7 8		4" Thick Asphalt Concrete Surface Binder Course 6" Aggreagre	CY	450	5%	25528 473	\$ 25.00	\$ 71,477.28	0.00370	\$ 60.00	\$ 9.00			
⊢ °		DUMPSTER PAD		-30	370	-7/3	23.00	y 11,010.33	0.130	, 00.00	y 3.00	٠٠,∠٥٠,٠٠٠ ب	y 10,072.95	
9		6" Thick Concrete Pad	SF	776	5%	815	\$ 13.00	\$ 10,592.40	0.080	\$ 60.00	\$ 4.80	\$ 3,911.04	\$ 14,503.44	
10		6" Edge Form	LF	169	5%	177	\$ 2.50	\$ 443.63	0.010	\$ 60.00	\$ 0.60			
11		Control Joint	LF	124	5%	130	\$ 2.50	\$ 325.92	0.020	\$ 60.00		\$ 156.44		
12		4" Thick Aggreagte	CY	9	5%	10	\$ 25.00		0.020	\$ 60.00	\$ 1.20			
13		Compacted Subgrade	SF	776	5%	815	\$ 0.55	\$ 448.14	0.005	\$ 60.00		\$ 244.44		
14		Dumspter Gate	EA	2	0%	2	\$ 1,200.00	\$ 2,400.00	8.000	\$ 60.00	\$ 480.00	\$ 960.00		
		SIDEWALK							•	•				
15		4" Thick Concrete Sidewalk	SF	670	5%	704	\$ 8.00	\$ 5,628.00	0.060	\$ 60.00	\$ 3.60	\$ 2,532.60	\$ 8,160.60	
16		4" Edge Form	LF	265	5%	278	\$ 2.50	\$ 695.63	0.010	\$ 60.00	\$ 0.60	\$ 166.95	\$ 862.58	
17		Control Joint	LF	107	5%	113	\$ 3.00	\$ 337.68	0.020	\$ 60.00	\$ 1.20	\$ 135.07	\$ 472.75	
18		4" Thick Aggreagte	CY	8	5%	9	\$ 38.00	\$ 326.74	0.020	\$ 60.00	\$ 1.20			
19		Compacted Subgrade	SF	670	5%	704	\$ 0.65	\$ 457.28	0.005	\$ 60.00	\$ 0.30	\$ 211.05	\$ 668.33	
		CURB												
20		6" Curb PAVEMENT MARKING	LF	79	5%	83	\$ 38.00	\$ 3,160.08	0.500	\$ 60.00	\$ 30.00	\$ 2,494.80	\$ 5,654.88	
21		ADA Accessible Marking	LF	84	5%	89	\$ 1.25	\$ 110.76	0.010	\$ 60.00	\$ 0.60	\$ 53.17	\$ 163.93	
22		ADA Accessible Marking Symbol	EA	2	0%	2	\$ 150.00	\$ 300.00	0.800	\$ 60.00	\$ 48.00			
23		Parking Stall Marking	LF	334	5%	350	\$ 0.80		0.010	\$ 60.00				
		STORM SERVICES												
24		8" HDPE Storm Services	LF	211	5%	221	\$ 15.00	\$ 3,321.99	0.120	\$ 60.00	\$ 7.20	\$ 1,594.56	\$ 4,916.55	
25		Excavation	CY	104	5%	110	\$ -	\$ -	0.120	\$ 60.00	\$ 7.20	\$ 788.42	\$ 788.42	
26		Bedding Material	CY	43	5%	45	\$ 30.00	\$ 1,339.01	0.030	\$ 60.00		\$ 80.34	\$ 1,419.35	
27		Backfill	CY	59	5%	62	\$ -	\$ -	0.080	\$ 60.00	\$ 4.80	\$ 297.50	\$ 297.50	
28		Catch Basin	EA	4	0%	4	\$ 800.00	\$ 3,200.00	12.000	\$ 60.00	\$ 720.00			
29		Excavation	CY	9	5%	10	\$ -	\$ -	0.120	\$ 60.00		\$ 71.68		
30		Bedding Material	CY	2	5%	2	\$ 30.00	\$ 74.67	0.030	\$ 60.00		\$ 4.48		
31		Backfill	CY	3	5%	3	\$ -	\$ -	0.080	\$ 60.00	\$ 4.80	\$ 15.68	\$ 15.68	
		SANITARY SERVICES		4.55	F-1	422	TA	A		TA				
32		4" PVC Sanitary Sewer Line	LF CY	100	5%	105	\$ 8.00	\$ 841.09	0.060	\$ 60.00	\$ 3.60			
33		Excavation	CY	43	5%	45	\$ -	\$ -	0.120	\$ 60.00	\$ 7.20			
34 35		Bedding Material Backfill	CY	15 27	5% 5%	16 29	\$ 30.00	\$ 488.12 \$ -	0.030	\$ 60.00 \$ 60.00		\$ 29.29 \$ 138.05		
35			CY	21	5%	29	\$ -	\$ -	0.080	\$ 60.00	\$ 4.80	\$ 138.05	\$ 138.05	
36		MISC ITEMS Connection to existing Line	EA	1	0%	1	\$ 1,200.00	\$ 1,200.00	16.000	\$ 60.00	\$ 960.00	\$ 960.00	\$ 2,160.00	
36		Connection to existing Line Connection to Building	EA	1	0%	1	\$ 1,200.00		8.000	\$ 60.00	\$ 480.00			
3/		WATER SERVICES	EA	+	U70	1	00.000 د ا	J 800.00	8.000	φ 00.00	y 400.00	400.00	1,200.00	
38		2" PVC SCh Water Line	LF	101	5%	106	\$ 5.00	\$ 529.83	0.030	\$ 60.00	\$ 1.80	\$ 190.74	\$ 720.57	
39		Excavation	CY	41	5%	43	\$ 5.00	\$ 325.65	0.120	\$ 60.00	\$ 7.20	\$ 306.59		
40		Bedding Material	CY	13	5%	14	\$ 30.00	\$ 424.01	0.030	\$ 60.00	\$ 1.80	\$ 25.44		
41		Backfill	CY	27	5%	28	\$ -	\$ -	0.080	\$ 60.00	\$ 4.80	\$ 136.13		
<u> </u>		MISC ITEMS						Yes.	1					
42		Reduced Pressure Zone	EA	1	0%	1	\$ 1,500.00	\$ 1,500.00	6.000	\$ 60.00	\$ 360.00	\$ 360.00	\$ 1,860.00	
43		Water Line Connect to existing Line	EA	1	0%	1	\$ 1,200.00	\$ 1,200.00	4.000	\$ 60.00		\$ 240.00		
44		Water Line Connect to Building	EA	1	0%	1	\$ 800.00	\$ 800.00	4.000	\$ 60.00		\$ 240.00		
45		Water Meter	EA	1	0%	1	\$ 400.00		2.000	\$ 60.00	\$ 120.00			
		EARTHWORK-EXPRESS OIL				AV	1							

	PROJECTED COST	\$ 303,466
INSURANCE	3%	\$ 9,104
CONTINGENCY		\$ 15,173
OVERHEAD AND PROFIT	15%	\$ 45,520
TAX	7.00%	\$ 5,416
	SUGGESTED BID	\$ 378,679

1,753.07 18,035.69

41,466.60

0.00400 0.120

0.030

 38957
 \$ 0.045
 \$

 721
 \$ 25.00
 \$

 3456
 \$ 12.00
 \$

 SF
 37102
 5%

 CY
 687
 5%

 CY
 3291
 5%

0.24 \$ 7.20 \$ 1.80 \$

9,349.70 \$ 5,194.28 \$ 6,219.99 \$

11,102.77 23,229.97 47,686.59

60.00 \$ 60.00 \$

60.00 \$

Note:

46 47 48

Note:

1. Please verify the equipment's and their prices with owner.
2. Online sources are used for pricing.

EARTHWORK-EXPRESS OIL EARTHOWRK/GRADING MODEL

Fill for mass grading
Subtotal (Site Work/ Existing Cond

Clearing & Grubbiing
6" Topsoil Stripping Assumed

3. Prices can vary depending upon field conditions.

4.We do not provide insurance, financial guarantees, or warranties of any kind. Our estimates are intended solely as preliminary guidelines to help clients understand the potential scope and cost of the work. They are not binding offers or fixed bid prices. Actual project costs may vary due to factors such as material availability, design changes, actual site conditions or client revisions. As such, we cannot be held liable for any discrepancies between the initial estimate and the final project cost.

Pr	ject ID:		DUTCH BROS													
	ation:		ADJ. TO 1800 E FIRE TOWER GREENVILLE, NC 27858													
	pe of Work:		Full Civil Takeoff													
Da	te:															
П																
	Item#	Ref. Sheet #	Item Description	Unit	Quantity	Wastage	Quantity w/ Wastage	Unit M Co		Total Material Cost	Unit Manhour	Hourly Wage	Unit Labor Cost	Total Labor Cost	Sub Cost	Total Trade Cost
			DIVISION.01 GENERAL REQUIREMENTS													
Г	1		Supervision and Coordination	LS	1	0%	1	\$	-	\$ -	0.000	\$ -	\$ -	\$ -	\$12,000.00	
Е	2		Submittals and Shop drawings	LS	1	0%	1	\$	-	\$ -	0.000	\$ -	\$ -	\$ -	\$ 5,000.00]
Е	3		Final Cleaning	LS	1	0%	1	\$	-	\$ -	0.000	\$ -	\$ -	\$ -	\$ 4,000.00]
L	4		Mobilization Costs	LS	1	0%	1	\$	-	\$ -	0.000	\$ -	\$ -	\$ -	\$ 8,000.00]
L	5		Temporary Control & Facilities	LS	1	0%	1	\$	-	\$ -	0.000	\$ -	\$ -	\$ -	\$ 6,000.00	
L			Subtotal (General Requirements)													\$ 35,000
			DIVISION 02- SITE WORK/ EXISTING CONDITIONS													

DIVISION 02- SITE WORK/ EXISTING CONDITIONS
CIVIL EORK- DUTCH
CITE INADDOMENATAITE

CIVIL EORK- DUTCH															
SITE IMPROVEMENTS															
ASPHALT PAVEMENT															
2" Thick Asphalt Concrete Surface Wearing Course	SF	12939	5%	13586	\$		\$ 16,303.14	0.00180	\$	60.00 \$				\$ 17,770.42	
4" Thick Asphalt Concrete Surface Binder Course	SF	12939	5%	13586	\$		\$ 38,040.66	0.00370	\$	60.00 \$				\$ 41,056.74	_
6" Aggreagre	CY	240	5%	252	\$	25.00	\$ 6,289.79	0.150	\$	60.00 \$	9.00	\$ 2,	2,264.33	\$ 8,554.12	1
SIDEWALK															4
4" Thick Concrete Sidewalk	SF	1353	5%	1421	\$	8.00	\$ 11,365.20	0.060	\$	60.00 \$	3.60	\$ 5,	5,114.34	\$ 16,479.54	1
4" Edge Form	LF	386	5%	405	\$		\$ 1,012.41	0.010	\$	60.00 \$				\$ 1,255.39	
Control Joint	LF	216	5%	227	\$		\$ 568.26	0.020	\$	60.00 \$				\$ 841.02	_
4" Thick Aggreagte	CY	17	5%	17	\$		\$ 434.09	0.020	\$	60.00 \$		\$		\$ 454.92	
Compacted Subgrade	SF	1353	5%	1421	\$		\$ 781.36	0.005	\$	60.00 \$		-		\$ 1,207.55	
RETAINING WALL					4							Ť		¥ ±,=:	4
12" Thick Retaining Wall - 126 LF	CY	19	5%	20	\$	275.00	\$ 5,486.25	4.000	\$	60.00 \$	240.00	\$ 4,	4,788.00	\$ 10,274.25	.1
BOLLARDS	4		<u> </u>		4	2.5.5.	3 3,103.		4	00.00	2.0.2	Ť	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	J 10,2	4
6" Steel Bollards	EA	2	0%	2	\$	300.00	\$ 600.00	3.000	\$	60.00 \$	180.00	Ś	360.00	\$ 960.00	.1
MONUMENT SIGN	1				4	300.00	3 000.11	5.000	4	00.00 +	100.00	÷	300.00	3 500.22	#
4'-06" L x 1'-03" W Monument Sign	EA	2	0%	2	\$	3,500.00	\$ 7,000.00	10.000	\$	60.00 \$	600.00	\$ 1,	1,200.00	\$ 8,200.00	.1
PAVEMENT MARKING	1 27.		- 670		4	3,300.00	3 7,000.00	10.000	4	00.00	000.00	**	,,200.00	3 0,200.00	4
ADA Accessible Marking	LF	101	5%	106	Ś	1.25	\$ 132.26	0.010	\$	60.00 \$	0.60	\$	63.49	\$ 195.75	i
	EA	101	0%	106	\$		\$ 132.26	0.010	\$	60.00 \$		\$		\$ 195.75	
ADA Accessible Marking Symbol	LF	204	5%	214	\$		\$ 150.00	0.800	\$	60.00 \$				\$ 198.00	
Parking Stall Marking					\$							-			_
Pavement marking	SF	535	5%	562	>	0.90	\$ 505.58	0.020	\$	60.00 \$	1.20	\$	674.10	\$ 1,179.68	4
STORM SERVICES	7 15	1 112	F2/	150	16	45.00	1 2 252 04	0.120	15	50.00 L¢	7.20		224.46	* 2.224.50	4
8" HDPE Storm Services	LF	143	5%	150	\$		\$ 2,253.04	0.120	\$	60.00 \$				\$ 3,334.50	
Excavation	CY	71	5%	74	\$		\$ -	0.120	\$	60.00 \$		<u> </u>		\$ 534.72	
Bedding Material	CY	29	5%	30	\$		\$ 908.14	0.030	\$	60.00 \$		\$		\$ 962.63	_
Backfill	CY	40	5%	42	\$		\$ -	0.080	\$	60.00 \$		-		\$ 201.77	_
Catch Basin	EA	4	0%	4	\$		\$ 3,200.00	12.000	\$	60.00 \$			-	\$ 6,080.00	→
Excavation	CY	9	5%	10	\$		\$ -	0.120	\$	60.00 \$		\$		\$ 71.68	
Bedding Material	CY	2	5%	2	\$		\$ 74.67	0.030	\$	60.00 \$		\$		\$ 79.15	
Backfill	CY	3	5%	3	\$	- 9	\$ -	0.080	\$	60.00 \$	4.80	\$	15.68	\$ 15.68	1
SANITARY SERVICES					0										4
4" PVC Sanitary Sewer Line	LF	78	5%	82	\$		\$ 654.70	0.060	\$	60.00 \$				\$ 949.31	
Excavation	CY	34	5%	35	\$	/// - 3 5	\$ -	0.120	\$	60.00 \$	7.20	\$	254.24	\$ 254.24	1
Bedding Material	CY	12	5%	13	\$		\$ 379.94	0.030	\$	60.00 \$	1.80	\$		\$ 402.74	1
Backfill	CY	21	5%	22	\$		\$ -	0.080	\$	60.00 \$				\$ 107.46	
MISC ITEMS	+	100			4 ///	115 11 0	D 100								1
Connection to existing Line	EA	1	0%	1	\$	1,200.00	\$ 1,200.00	16.000	\$	60.00 \$	960.00	\$	960.00	\$ 2,160.00	1
Connection to Building	EA	1	0%	1	\$		\$ 800.00	8.000	\$	60.00 \$				\$ 1,280.00	
WATER SERVICES	4	2/1	1 4	None		6 6									4
2" PVC SCh Water Line	LF	79	5%	83	\$	5.00	\$ 414.96	0.030	\$	60.00 \$	1.80	\$	149.39	\$ 564.35	1
Excavation	CY	32	5%	33	\$		\$ -	0.120	\$	60.00 \$				\$ 240.12	
Bedding Material	CY	11	5%	11	\$		\$ 332.08	0.030	\$	60.00 \$		\$		\$ 352.00	
Backfill	CY	21	5%	22	\$		\$ -	0.080	\$	60.00 \$				\$ 106.61	
MISC ITEMS	+	++	5/5		-01		,,,,	0.000	+-	00.00		— ب	100.01	3 100	1
Reduced Pressure Zone	EA	1	0%	1	\$	1,500.00	\$ 1,500.00	4.000	\$	60.00 \$	240.00	Ś	240.00	\$ 1,740.00	. 1
Water Line Connect to existing Line	EA	1	0%	1	\$		\$ 1,300.00	4.000	\$	60.00 \$				\$ 1,740.00	
Water Line Connect to existing Line Water Line Connect to Building	EA	1	0%	1	\$,	\$ 1,200.00	4.000	\$	60.00 \$		-		\$ 1,440.00	→
	EA EA	1 1	0%	1	\$				\$			<u> </u>		\$ 1,040.00	
Water Meter FARTHWORK-DUTCH BROS	LA P			1	15	400.00	\$ 400.00	2.000	13	60.00 \$	120.00	\$	120.00	\$ 520.00	4
			G	1								47			4
EARTHOWRK/GRADING MODEL	1 65	1 20105	524	22200	16	205	: :214.07	3 22400	1	00 L 6	224	4	: 72.40	1 351045	4
Clearing & Grubbiing	SF	28465	5%	29888	\$		\$ 1,344.97	0.00400	\$	60.00 \$				\$ 8,518.15	→
6" Topsoil Stripping Assumed	CY	527	5%	553	\$		\$ 13,837.15	0.120	\$	60.00 \$, -,	-,	\$ 17,822.25	_
						40.00	\$ 10.50	0.040	\$	60.00 S	2.40	Ś	2.52	\$ 13.02	_
Cut for mass grading Fill for mass grading	CY	4733	5% 5%	1 4970	\$		\$ 59,635.80	0.030	\$	60.00 \$		\$ 8,		\$ 68,581.17	

DJECTED COST	\$	261,298
3%	\$	7,839
5%	\$	13,065
15%	\$	39,195
7.00%	\$	6,226
	3% 5% 15%	3% \$ 5% \$ 15% \$

SUGGESTED BID \$ 327,623

Note:

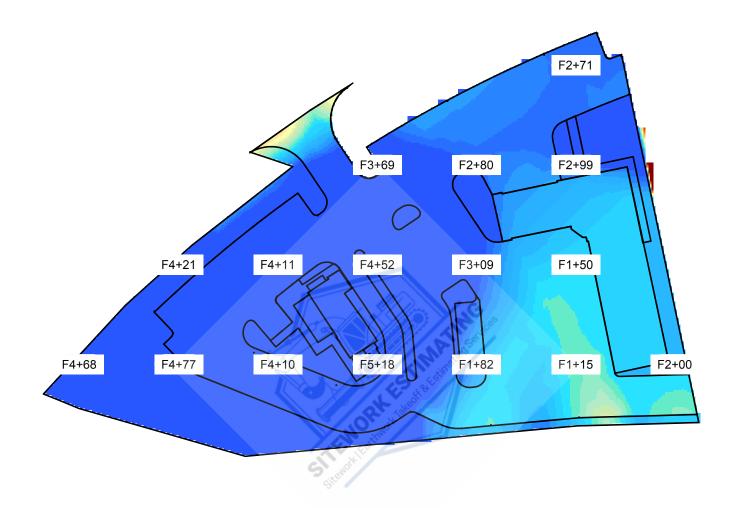
1. Please verify the equipment's and their prices with owner.

2. Online sources are used for pricing.

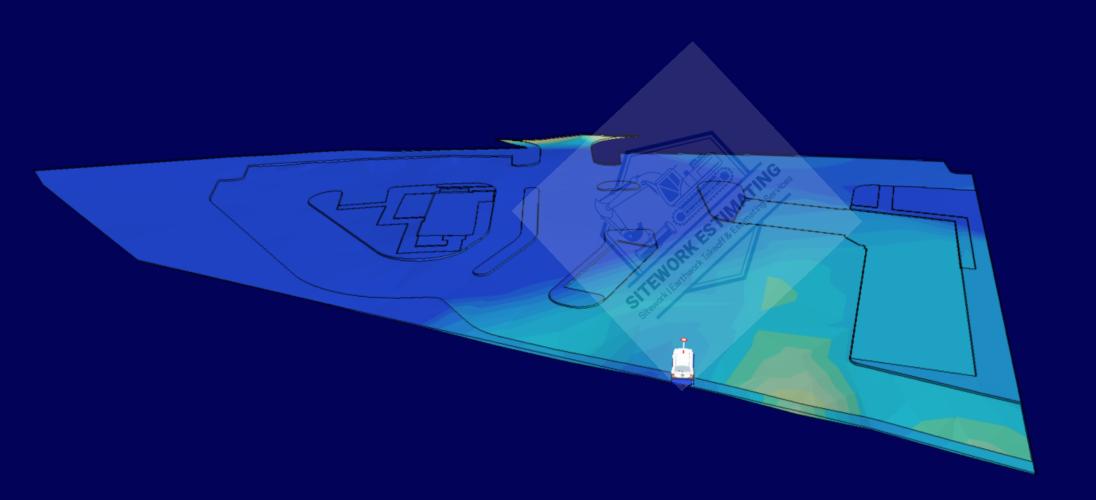
34

3. Prices can vary depending upon field conditions.

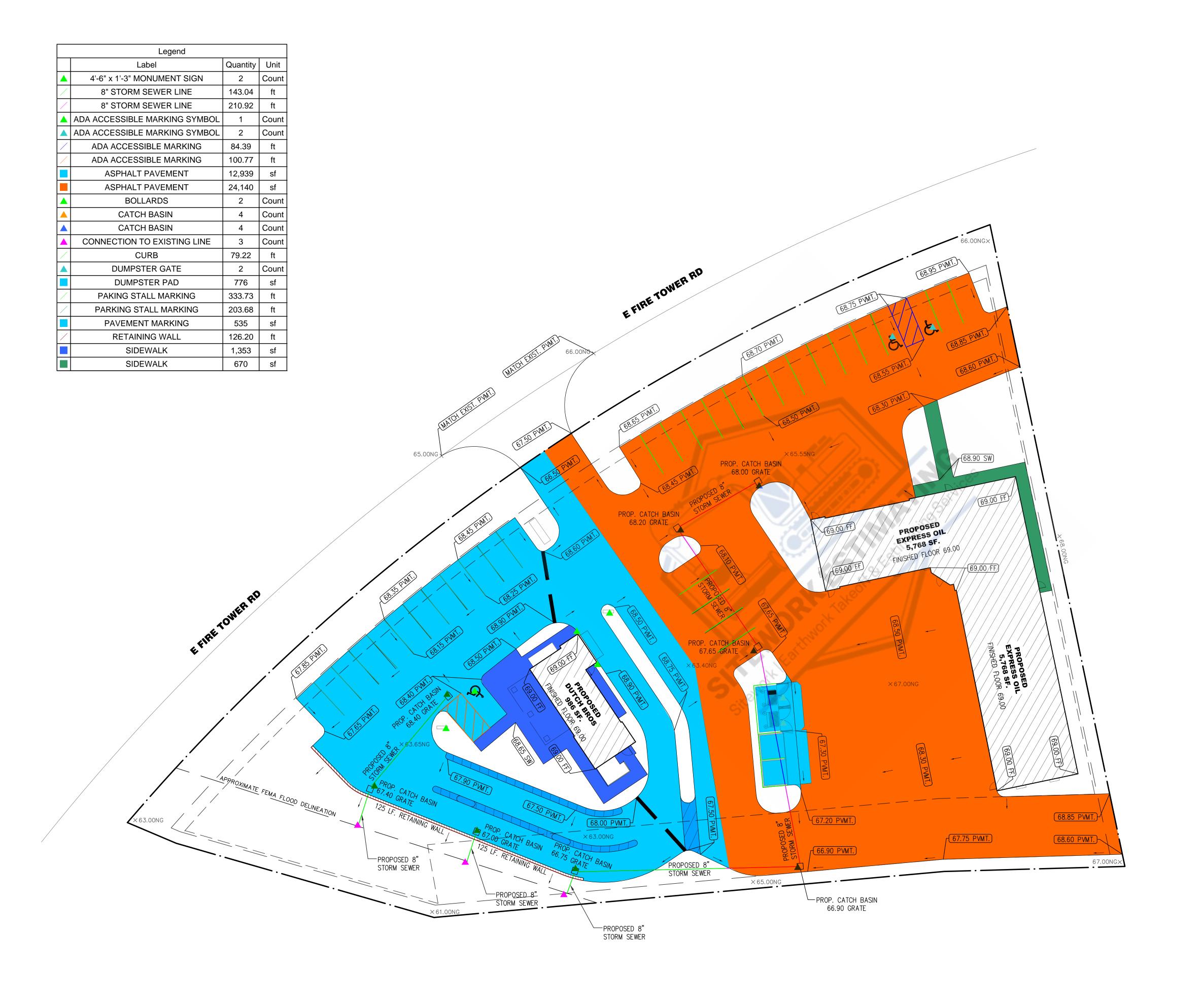
4. We do not provide insurance, financial guarantees, or warranties of any kind. Our estimates are intended solely as preliminary guidelines to help clients understand the potential scope and cost of the work. They are not binding offers or fixed bid prices. Actual project costs may vary due to factors such as material availability, design changes, actual site conditions or client revisions. As such, we cannot be held liable for any discrepancies between the initial estimate and the final project cost.



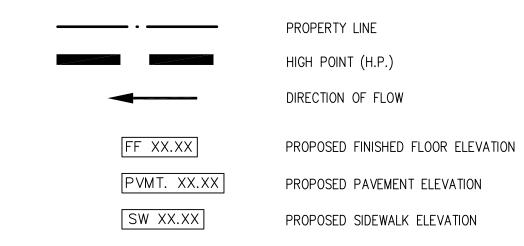












SITEWORKS NOTES:

- CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION OF PROPOSED FACILITIES. NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- 2. CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY 48 HOURS PRIOR TO EXCAVATING NEAR THEIR UTILITY.
- 3. CONTRACTOR SHALL TAKE ALL DUE PRECAUTIONS TO PROTECT EXISTING FACILITIES FROM DAMAGE. ANY DAMAGE TO EXISTING FACILITIES INCURRED AS A RESULT OF CONSTRUCTION OPERATIONS WILL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- 4. CONTRACTOR SHALL TAKE EXTRA CARE TO PROTECT TREES IN AREAS ADJACENT TO CONSTRUCTION.
- 5. CONTRACTOR SHALL CONFIRM NO CONFLICTS BETWEEN EXISTING AND PROPOSED DRY/WET UTILITIES IN PUBLIC R.O.W., BEFORE STARTING SITE WORK CONSTRUCTION.

CONSTRUCTION NOTE:

CONTRACTOR SHALL CONFIRM NO CONFLICTS BETWEEN EXISTING AND PROPOSED DRY/WET UTILITIES IN PUBLIC R.O.W., BEFORE STARTING SITE WORK CONSTRUCTION.

CONTRACTOR SHALL HYDROMULCH ALL NEWLY GRADED AREAS AND EXPOSED SOILS UPON PAVING COMPLETION.

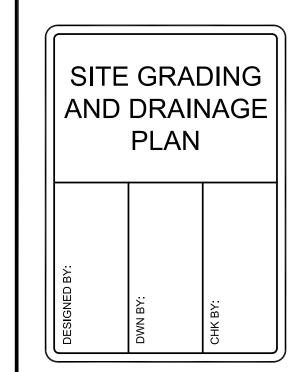
EXCESS SOIL MATERIAL IS THE RESPONSIBILITY OF THE CONTRACTOR & IS TO BE DISPOSED OFFSITE RESPONSIBLY AT NO SEPARATE PAY.

FLOOD PLAIN DATA

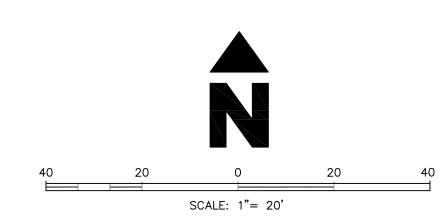
ALL OF THIS PROPERTY LIES WITHIN ZONE "X-SHADED" FLOODPLAIN PER THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 3720468600-K, WHICH BEARS AN EFFECTIVE DATE JULY 07 2014.

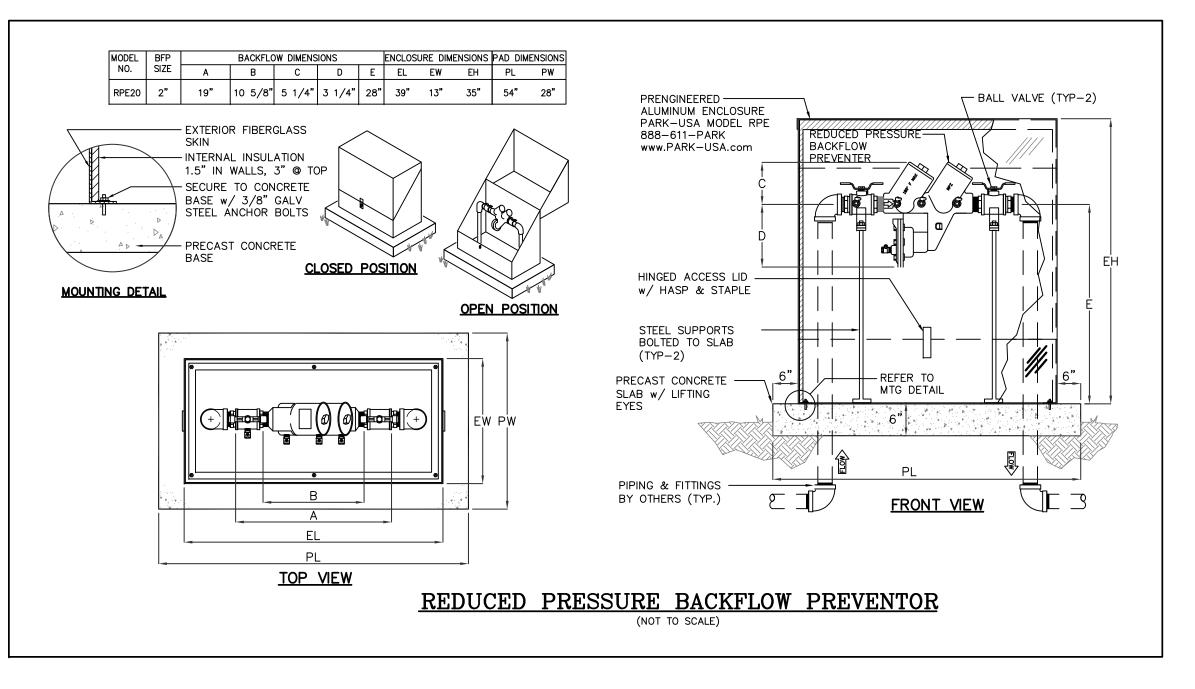
ZONE "X-SHADED" DENOTES AREA OUTSIDE THE 100 YEAR FLOODPLAIN.

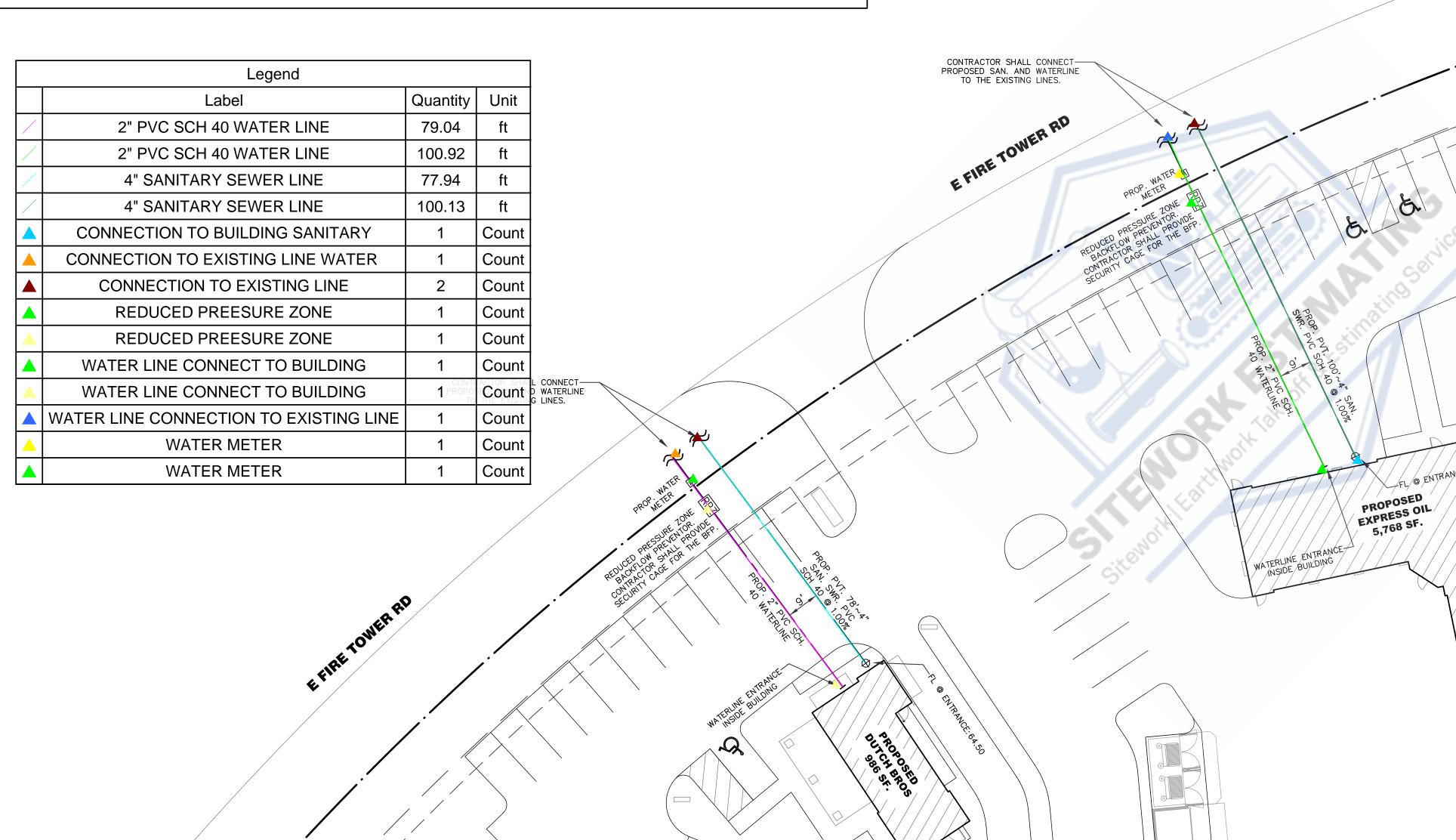
MULTIUSE DEVELOPMENT
IN GREENVILLE, NC
ADJ. TO 1800 E FIRE
TOWER RD GREENVILLE, NC 27858



SHEET REFERENCE: C.01







GENERAL NOTES: SITEWORK

A. EXISTING UTILITIES, FACILITIES & TREES

CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION OF PROPOSED FACILITIES. NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY 48 HOURS PRIOR TO EXCAVATING NEAR THEIR UTILITY.

CONTRACTOR SHALL TAKE ALL DUE PRECAUTIONS TO PROTECT EXISTING FACILITIES FROM DAMAGE. ANY DAMAGE TO EXISTING FACILITIES INCURRED AS A RESULT OF CONSTRUCTION OPERATIONS WILL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.

CONTRACTOR SHALL TAKE EXTRA CARE TO PROTECT TREES IN AREAS ADJACENT TO CONSTRUCTION.

B. DOMESTIC WATER SYSTEM

ALL WATER LINE MAINS SIZES 1 THRU 3 INCH SHALL BE PVC SCH 40.

WATER LINE SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH AUTHORITY SPECIFICATION FOR WATER MAIN CONSTRUCTION AS CURRENTLY AMENDED.

WATER LINE SHALL HAVE BANK SAND BEDDING AND BACKFILL.

PROVIDE THRUST BLOCKING ACCORDING TO AUTHORITY STANDARDS SPECIFICATIONS.

PROVIDE A MINIMUM 6-INCHES OF CLEARANCE AT STORM SEWER AND WATER LINE CROSSING.

C. SANITARY SEWER SYSTEM

POLY-VINYL-CHLORIDE (PVC SDR 26) PIPE SHALL CONFIRM TO ASTM SPECIFICATIONS D3034 AND BE INSTALLED ACCORDING TO ASTM D2321.

ALL SANITARY SEWER SERVICE LINES SHALL BE CONSTRUCTED TO TRUE ALIGNMENT AND GRADE. WARPED AND SAGGING LINES WILL NOT BE PERMITTED.

BUILDING TIE-ON CONNECTION WILL BE MADE DIRECTLY TO THE STUB-OUT FROM THE BUILDING PLUMBING AT THE FOUNDATION ON ALL WASTES OUTLETS.

WATER-TIGHT ADAPTERS OF A TYPE COMPATIBLE WITH THE MATERIALS BEING JOINED WILL BE USED AT THE POINT OF CONNECTION OF THE SERVICE LINE TO THE BUILDING PLUMBING. NO CEMENT GROUT MATERIALS ARE PERMITTED.

NO BENDS OR TURNS AT ANY POINT WILL BE GREATER THAN 45 DEGREES.

CLEANOUT WILL BE MADE WITH AIRTIGHT MECHANICAL PLUG.

THE PHYSICAL CONNECTION TO THE AUTHORITY'S SEWER MAIN WILL BE MADE BY USE OF AN ADAPTER OF A TYPE COMPATIBLE WITH MATERIALS BEING JOINED. THE CONNECTION SHALL BE WATERTIGHT. NO CEMENT GROUT MATERIALS ARE PERMITTED.

BACKFILLING OF SERVICE LINES TRENCH MUST BE ACCOMPLISHED WITHIN TWENTY-FOUR (24) HOURS OF INSPECTION AND APPROVAL. NO DEBRIS WILL BE PERMITTED IN THE TRENCH.

SANITARY SEWER CLEANOUTS: ENSURE SANITARY SEWER CLEANOUTS ARE INSTALLED: EVERY 100 FEET ALONG HORIZONTAL PIPING. AT ALL DIRECTION CHANGES GREATER THAN 45 DEGREES. ACCORDING TO FBC—PLUMBING 708.1.1.

HORIZONTAL SEPARATION: MAINTAIN A MINIMUM 5 FEET OF HORIZONTAL DISTANCE BETWEEN THE WATER SUPPLY AND SEWER LINES.

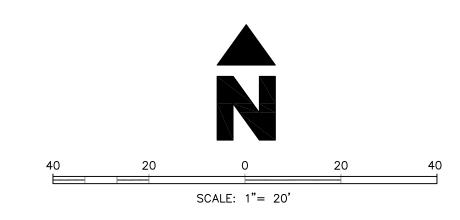
VERTICAL SEPARATION (IF CROSSING): THE WATER SUPPLY LINE MUST BE INSTALLED 12 INCHES ABOVE THE SEWER LINE. IF THIS SEPARATION IS NOT ACHIEVABLE, ENCASE THE SEWER PIPE IN CONCRETE.

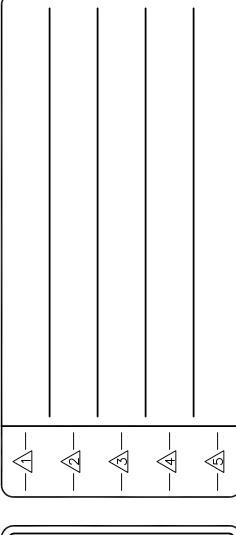
LEGEND

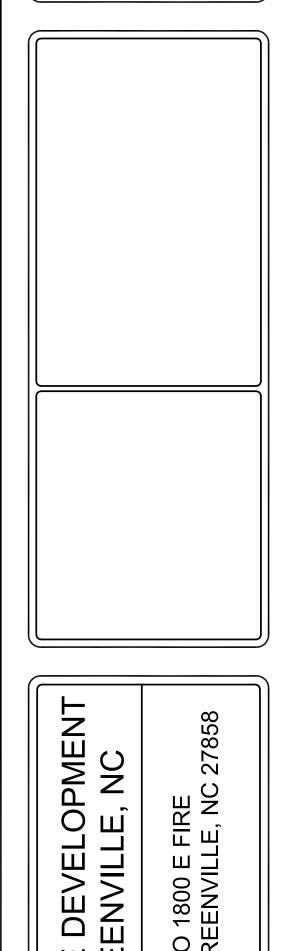
PROPOSED EXPRESS OII 5,768 SF. PROPERTY LINE
WASTEWATER
WATER LINE

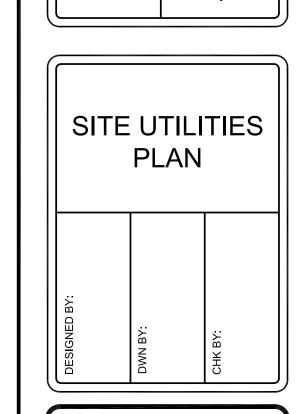
SITEWORKS NOTES:

- 1. CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION OF PROPOSED FACILITIES. NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- 2. CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY 48 HOURS PRIOR TO EXCAVATING NEAR THEIR UTILITY.
- 3. CONTRACTOR SHALL TAKE ALL DUE PRECAUTIONS TO PROTECT EXISTING FACILITIES FROM DAMAGE. ANY DAMAGE TO EXISTING FACILITIES INCURRED AS A RESULT OF CONSTRUCTION OPERATIONS WILL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- 4. CONTRACTOR SHALL TAKE EXTRA CARE TO PROTECT TREES IN AREAS ADJACENT TO CONSTRUCTION.
- 5. CONTRACTOR SHALL CONFIRM NO CONFLICTS BETWEEN EXISTING AND PROPOSED DRY/WET UTILITIES IN PUBLIC R.O.W., BEFORE STARTING SITE WORK CONSTRUCTION.









SHEET REFERENCE: C.02

Volume Report Subgrade vs. Stripped

Name	Group	Туре	Code	Total Area	Cut Area	Fill Area	OnGrade Area	Cut Volume	Fill Volume	Cut Compaction Ratio	Fill Compaction Ratio	Cut Compacted	Fill Compacted	Export -Import	Per 0.1 ft
PROPOSED DUTCH BROS	Sub: PROPOSED DUTCH BROS	Earthwork		28,465	67	28,355	43	1	4,733	1.00	1.00	1	4,733	-4,732	105
PROPOSED EXPRESS OIL	Sub: PROPOSED EXPRESS OIL	Earthwork		37,102	8	37,077	17	0	3,291	1.00	1.00	0	3,291	-3,291	137
Regions 1	ital:	Earthwork		65,567	75	65,432	60	1	8,024			1	8,024	-8,023	242
Name	Group	Type	Code	Plane Area	Slope Area	Depth		Volume							
TS_06"	TS_06"	Stripping		65,566	65,600	0.500		1,215							
Stringing	-4-1	Stringing		65 566	CE COO			1 215							

