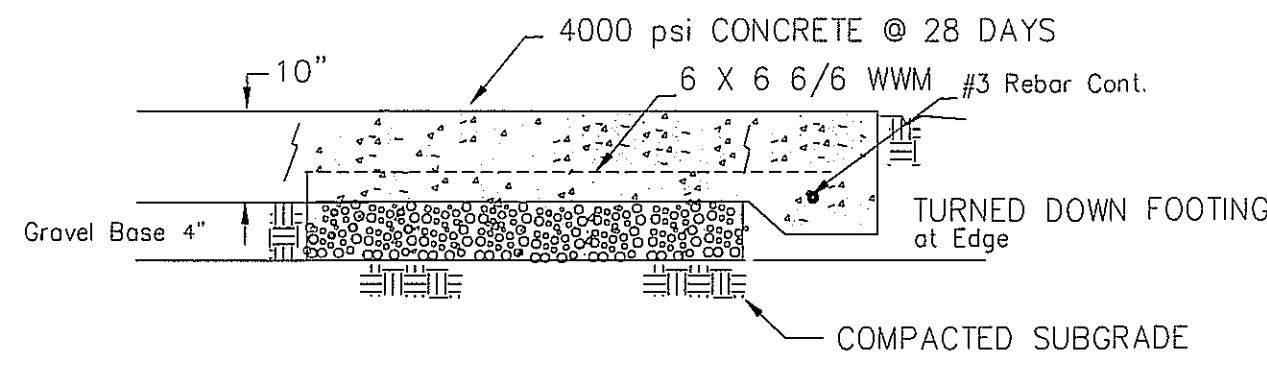




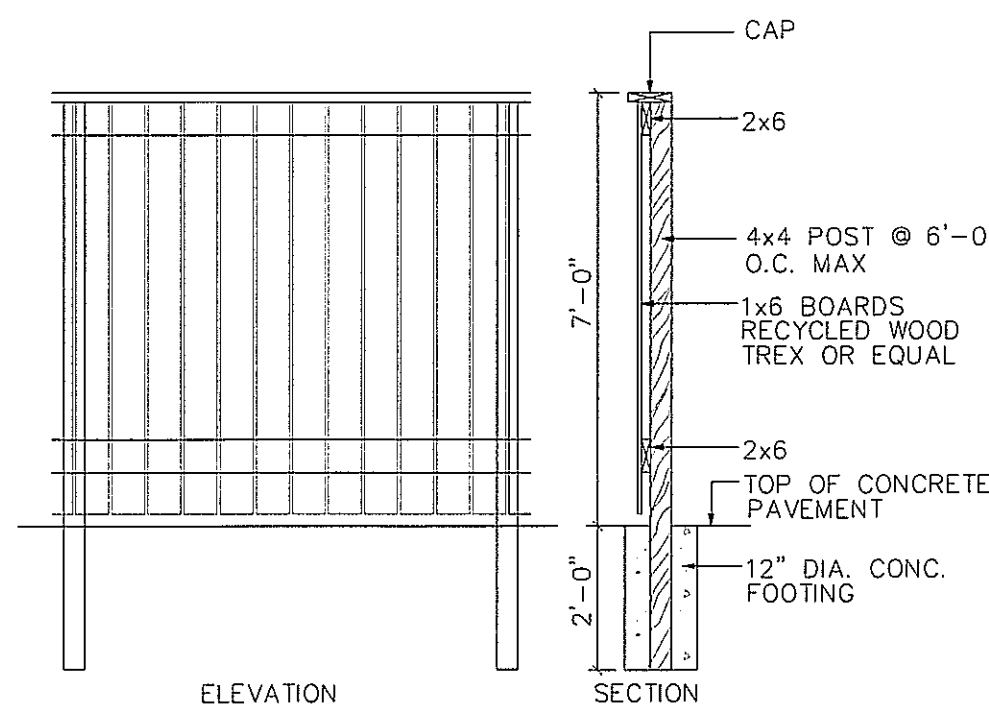
**Water and Sewer Notes:**

1. There is an 8" Public Sewer Main on the adjacent property owned CFPUA. Existing building has a 4" PVC sewer line connected to this main.
2. The existing property gets water from a public water main in the Market Street R/W (owned by CFPUA). The service meter location is shown on this plan. The exact location and size of the public water main is unknown.
3. There will be no new or additional water and sewer lines added to serve the addition. Existing bathrooms in the existing building will remain.
4. There is currently a maximum of 3 employees working at this business. The addition will be expanding the showroom and warehouse areas in the existing building but no increase in the number of employees is proposed. Domestic Use = 25 GPD per employee. Use a factor of 2X for demand.

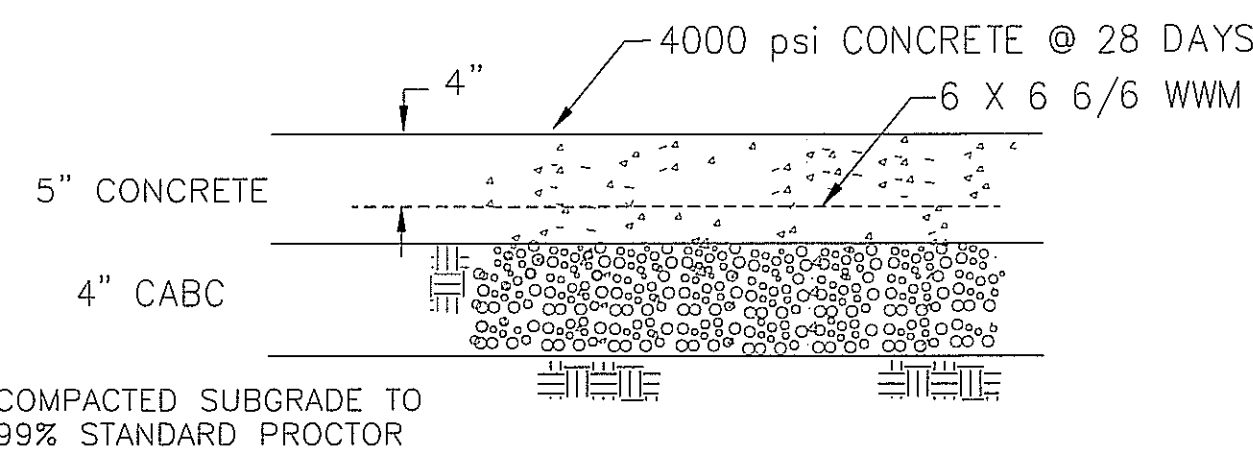
WATER DEMAND: 150 GPD (current use)  
 SEWER DEMAND: 150 GPD (current use)  
 WATER DEMAND: 150 GPD (proposed use)  
 SEWER DEMAND: 150 GPD (proposed use)



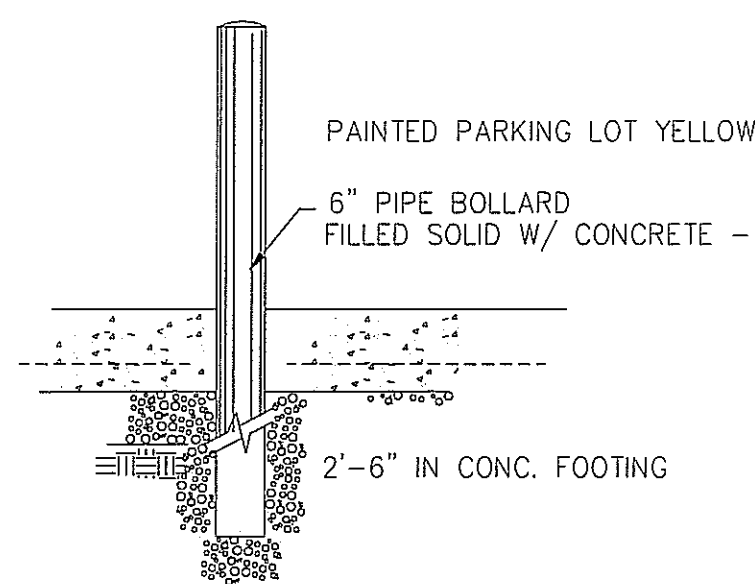
**Dumpster Pad Detail**



**Dumpster Screen Fence Detail**



**Concrete Paving Detail**



**Pipe Bollard Detail**

**NOTES:**

Parcel ID: R05007-018-001-000  
 Parcel: 6315  
 Owner: William Douglas Mitchell Family Trust, etal  
 8721 Glenwood Avenue, Raleigh NC 27617  
 Raleigh NC 27617

Address: 6315 Market Street  
 lot 4 Dutch Square  
 Area: 0.689 acres  
 Zoning: RB  
 Class: Ind.  
 CAMA land use class: URBAN  
 Floodplain: NA  
 Market Street R/W is not being dedicated by applicant.  
 Future R/W being shown for reference only.

	Minimum	Proposed
Lot width:	100 feet	100 feet
Front Setback:	25 feet	66 feet
Rear Setback:	15 feet	35 feet
Interior Side Setback:	0 feet	9.5 feet
Maximum Height:	35 feet	30 feet

**BUILDING LOT COVERAGE**

Maximum Lot Coverage: 40%  
 Actual Lot Coverage: 30.7% (.212ac/.689ac)

**IMPERVIOUS AREA SUMMARY**

Existing:	14,496 sf	(.333 acres)
New:	9,995 sf	(.229 acres)
To be removed:		
Gravel:	2,885 sf	(.066 acres)
Parking Spaces:	558 sf	(.013 acres)

Proposed Total: 14,996+9,995-2,885-558= 21,548 sf  
 21,548 sf = .49 acres  
 .49 / .689 = 71.1% Impervious

**PARKING SUMMARY**

Existing:	9 spaces
New:	11 spaces
To Be Removed:	4 spaces
Total Proposed:	16 spaces

(including 1 h/c and 3 compact spaces)

**BUILDING AREA SUMMARY**

Existing Building:	4000 sf
Retail:	3400 sf
Warehouse:	600 sf

Addition Area: 5250 sf  
 Proposed Building: 9250 sf (existing and addition)

Warehouse:	4750 sf
Retail:	4500 sf

**PARKING REQUIREMENTS**

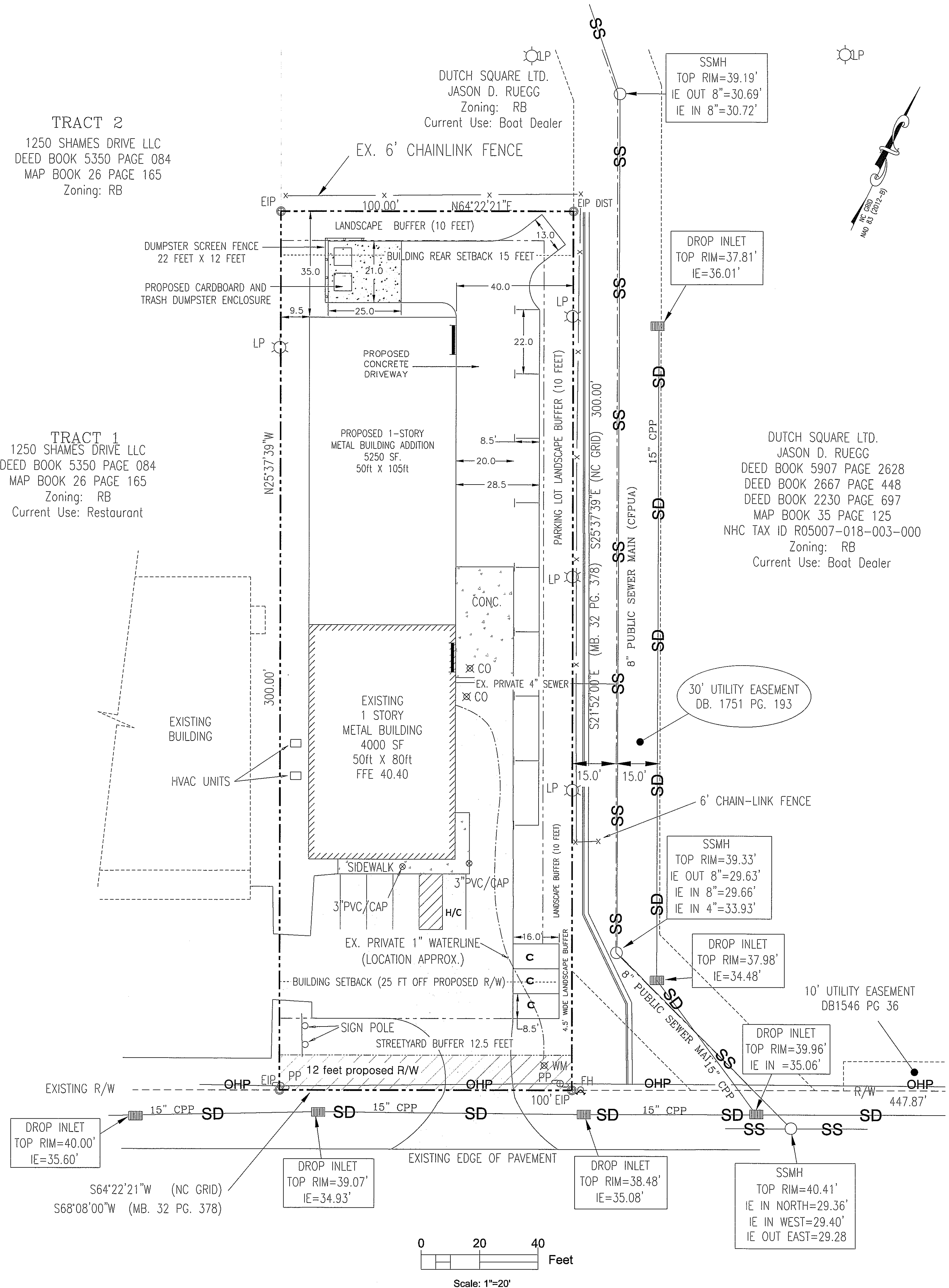
Warehouse: $\frac{1}{1000}$ sf minimum	$\frac{4750}{1000} = 4.75$ spaces
Warehouse:	no maximum
Retail: $\frac{1}{400}$ sf minimum	$\frac{4500}{400} = 11.25$ spaces
Retail: $\frac{1}{200}$ maximum	$\frac{4500}{200} = 22.5$ spaces

Minimum Required = 4.75 + 11.25 = 16 spaces  
 Required Maximum = 4.75 + 22.5 = 28 spaces

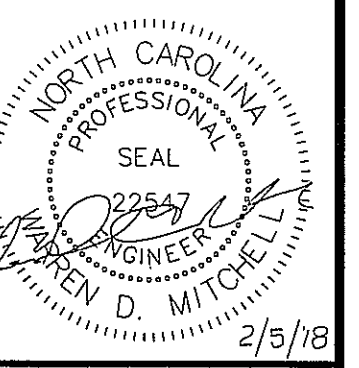
Total Parking Proposed = 16 spaces

**TRACT 2**  
 1250 SHAMES DRIVE LLC  
 DEED BOOK 5350 PAGE 084  
 MAP BOOK 26 PAGE 165  
 Zoning: RB

**TRACT 1**  
 1250 SHAMES DRIVE LLC  
 DEED BOOK 5350 PAGE 084  
 MAP BOOK 26 PAGE 165  
 Zoning: RB  
 Current Use: Restaurant



Warren D. Mitchell, PE  
 Civil Engineering  
 104 Amber Wood Run  
 CHAPEL HILL, NORTH CAROLINA 27516  
 warrenmitchellpe@gmail.com  
 P (919) 593-1916



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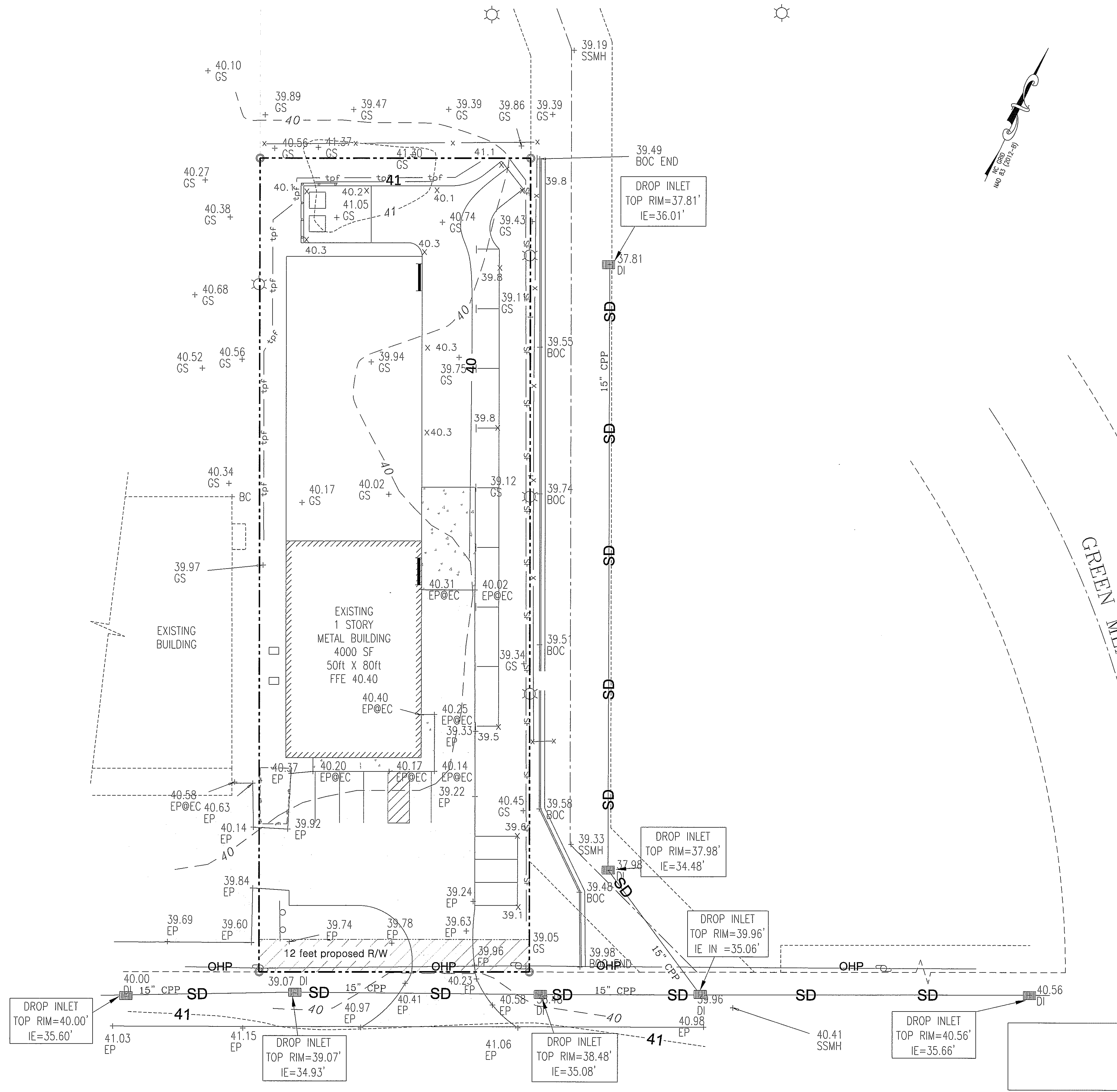
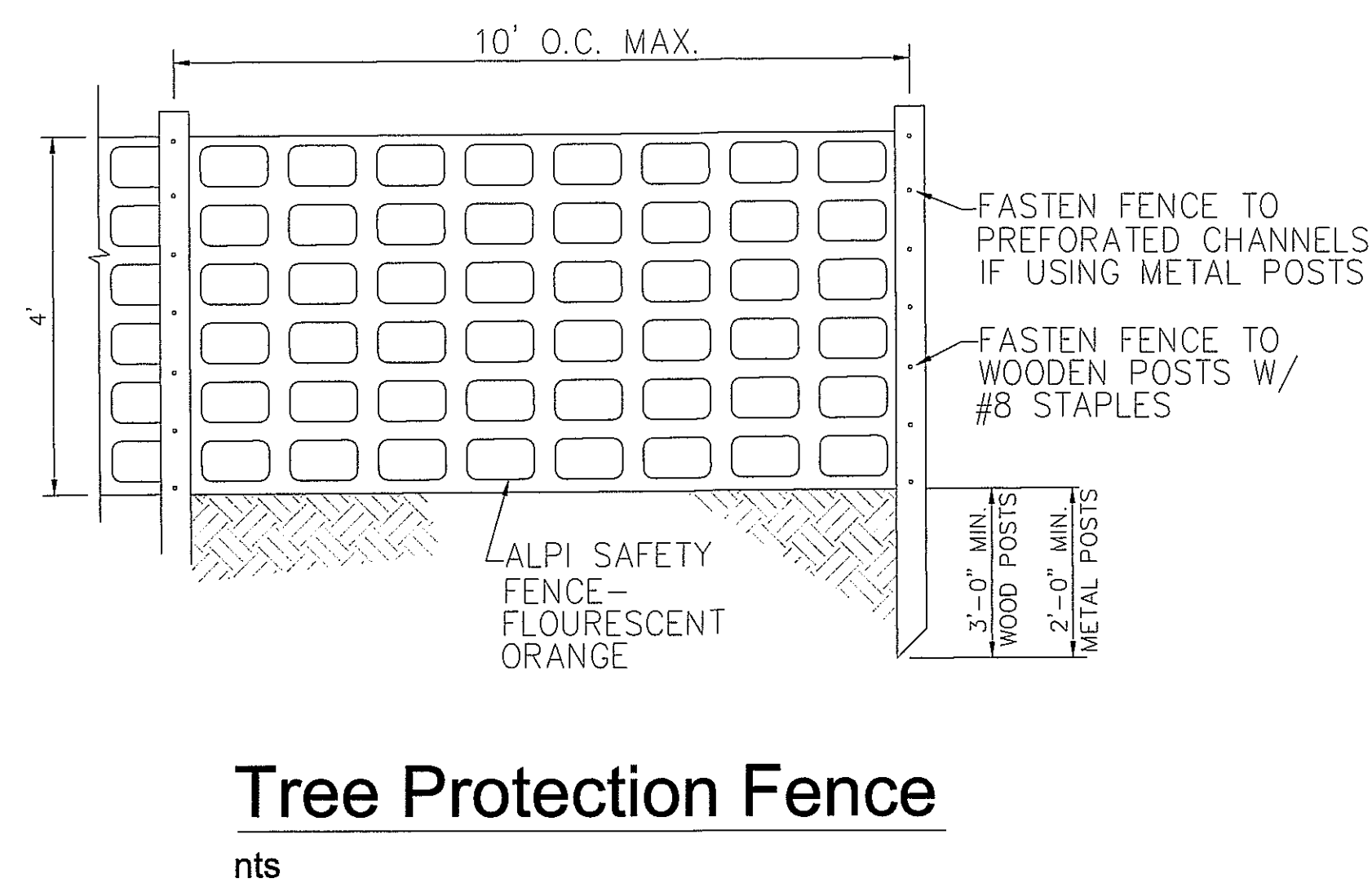
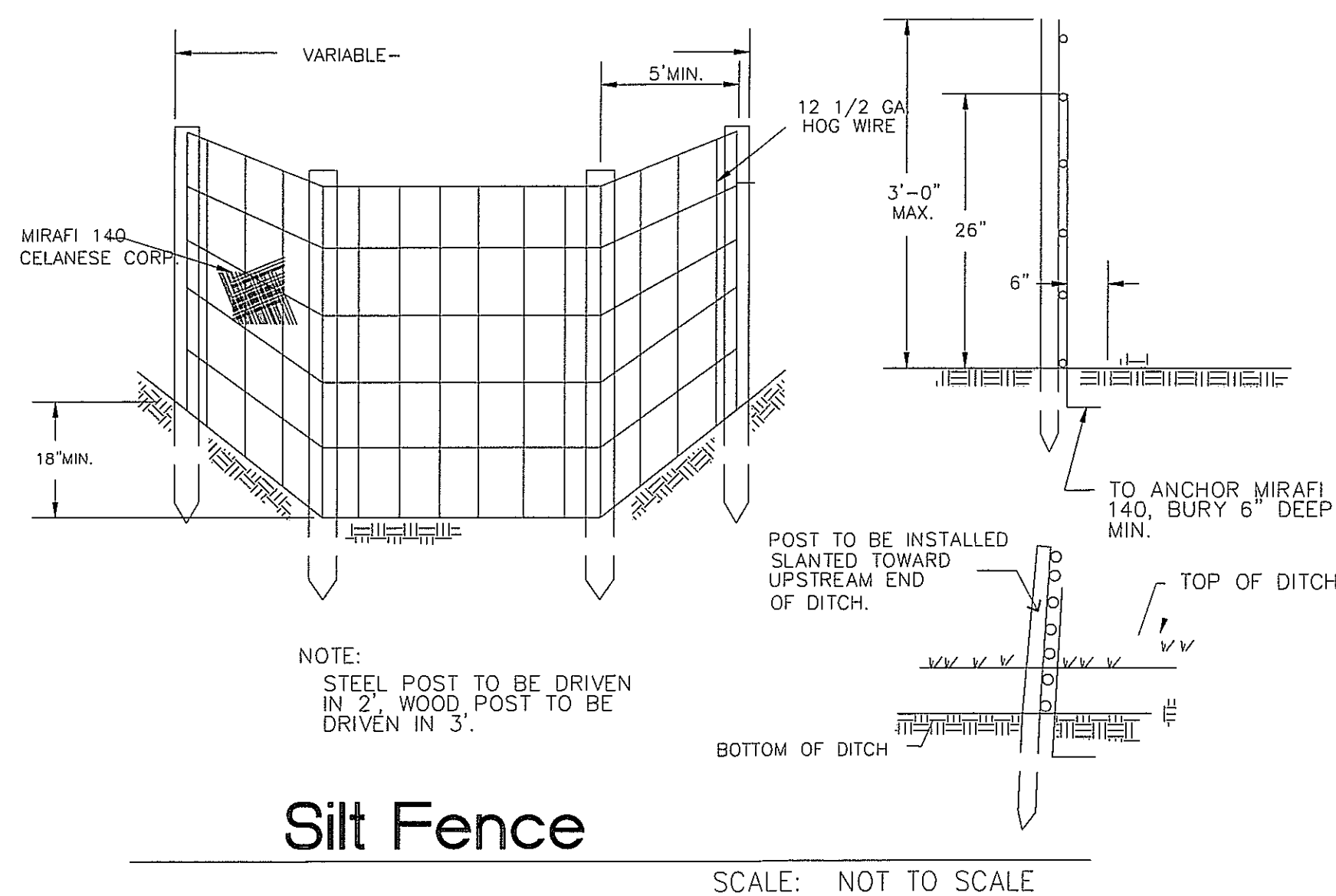
**Atlantic Spas and Billiards**  
 6315 Market Street  
 Wilmington, North Carolina

Jan 24, 2018

Scale: 1"=20'

Site Plan

**C2**



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NO.	DESCRIPTION	DATE

**Atlantic Spas and Billiards**  
6315 Market Street  
Wilmington, North Carolina

Jan 24, 2018  
Scale: 1"=20'  
Grading and Erosion Control Plan

**C3**

LANDSCAPE NOTES:

1. Street Yard: 1000 sf (100ft x 10ft)  
 1 canopy/shade tree per 600 sf  
 or 3 standard understory trees when power lines are in conflict.

Shrubs required: 6 x 1.67 = 10 total at 12 inches in height.

- 2 Street Yard: Left of Driveway: 625 sf  
 Right of Driveway: 256 sf

- 3 Street Yard Trees: Trees provided:  
 Left Side of Driveway = 2 understory tree  
 Right Side of Driveway = 1 understory tree  
 Shrubs required:  
 Left Side of Driveway 8 total at 12 inches in height.  
 Right Side of Driveway 2 total at 12 inches in height

Plants:

TREES

Acer rubrum	Red Maple	3	BB	2" dia
Lagerstroemia indica	Crape Myrtle	3	BB	6'-8' tall

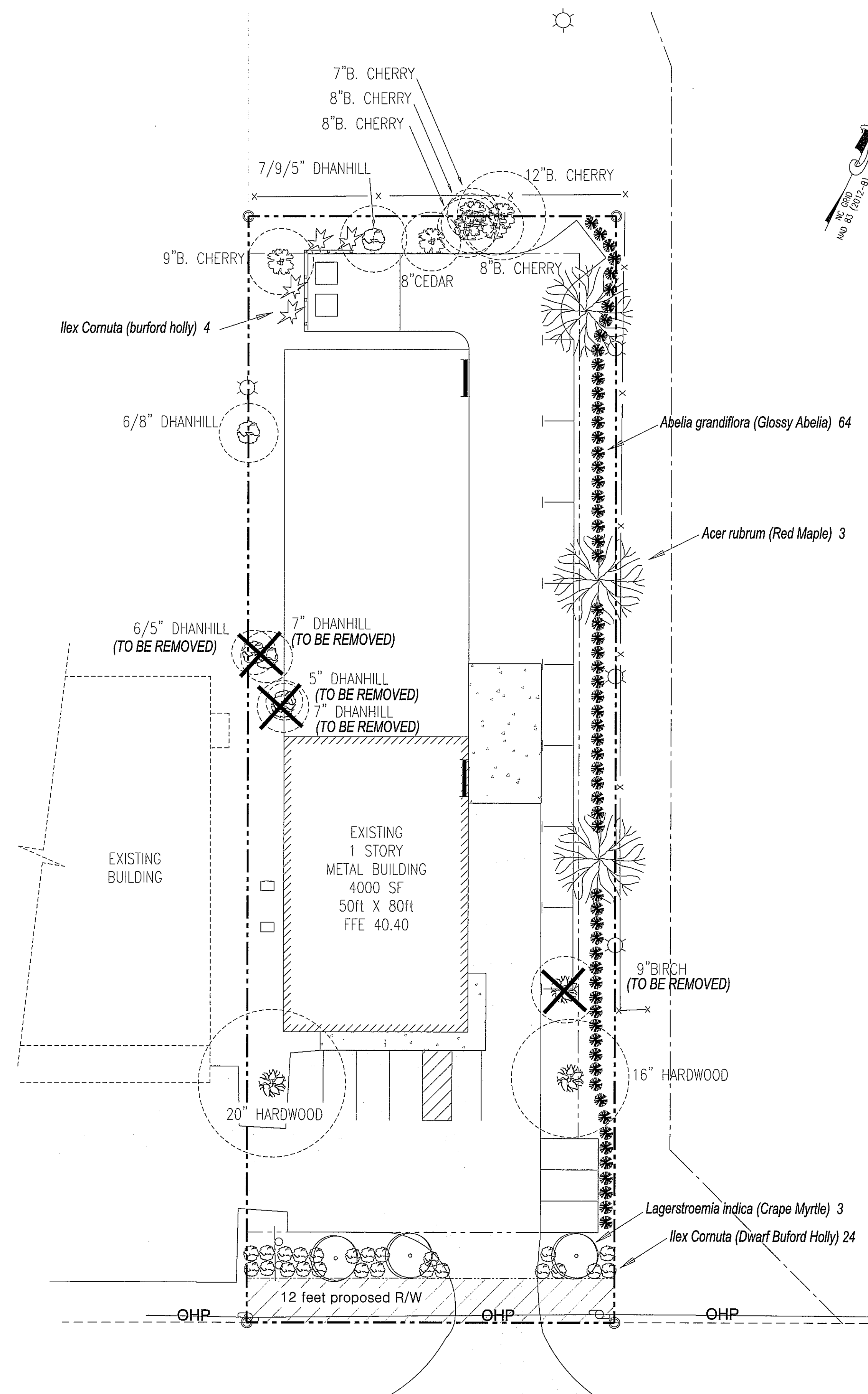
SHRUBS

Ilex vomitoria	Dwarf Yaupon Holly "Nana"	24	Cont.	3-gal
Abelia grandiflora	Glossy Abelia	64	Cont.	3-gal
Ilex Cornuta (Burfordi)	Burford Holly	4	Cont.	3-gal

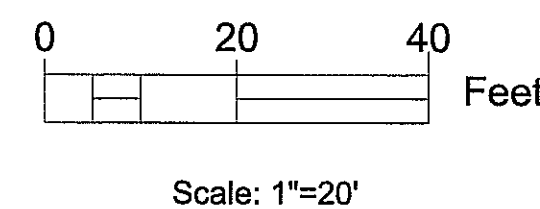
PRESERVED TREE CREDIT:

1. Preserved Trees:		Credit
Western Boundary:	1 - 20" Hardwood	4 trees
	1 - 8" Dhanhill	2 trees
	1 - 9" Black Cherry	2 trees
Northern Boundary:	1 - 9" Dhanhill	2 trees
	3 - 8" Black Cherry	6 trees
	1 - 8" Cedar	2 trees
	1 - 7" Black Cherry	2 trees
	1 - 12" Black Cherry	3 trees
Eastern Boundary:	1 - 16" Hardwood	3 trees

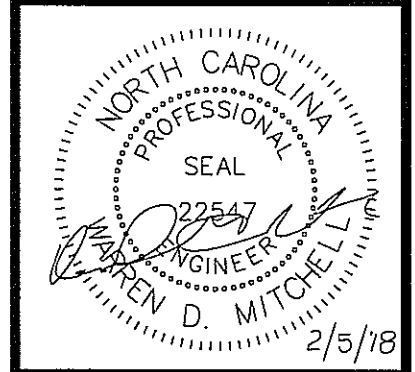
TOTAL 26 tree credits



US HWY # 17 (MARKET STREET)



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Atlantic Spas and Billiards  
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Jan 24, 2018

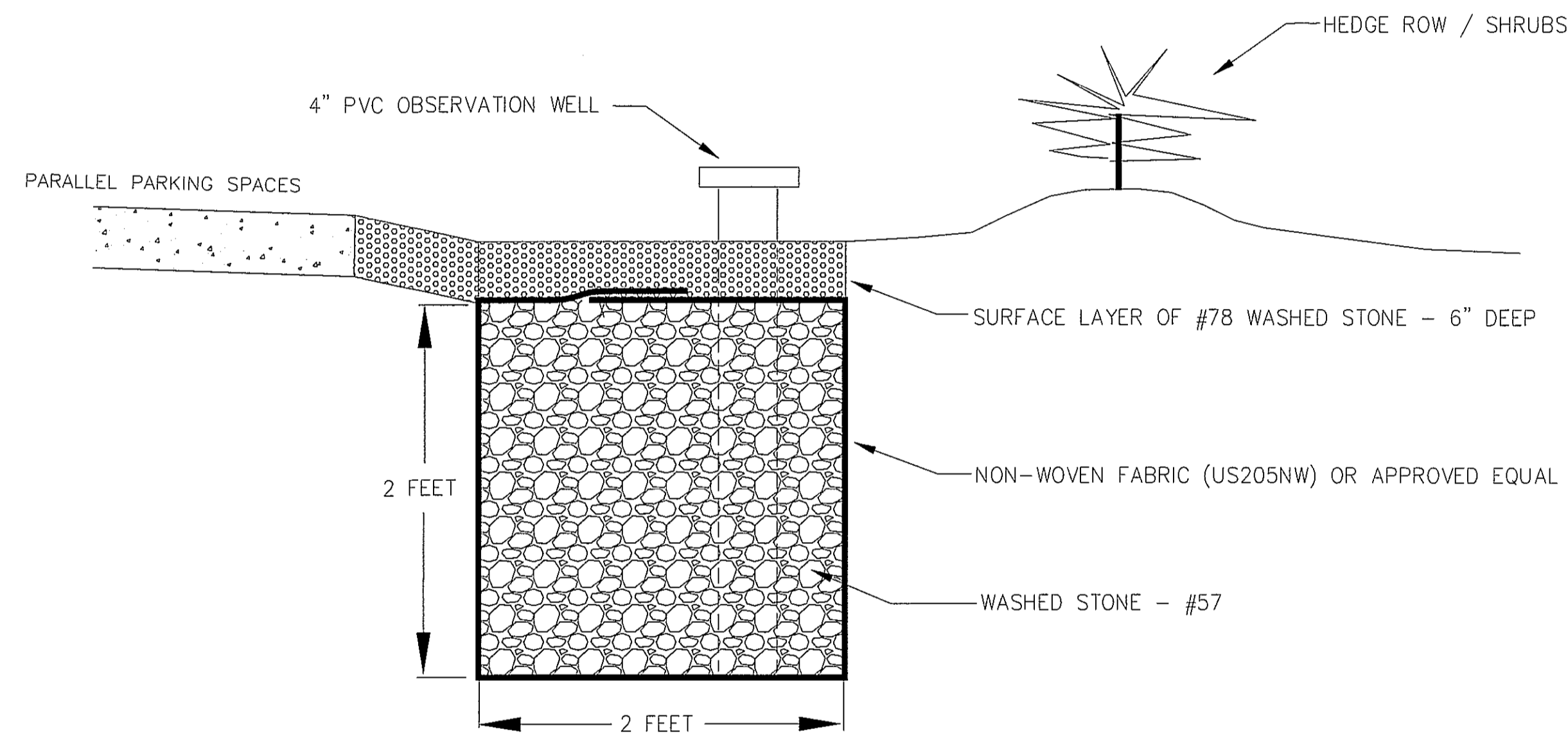
Scale: 1"=20'

Landscape Plan

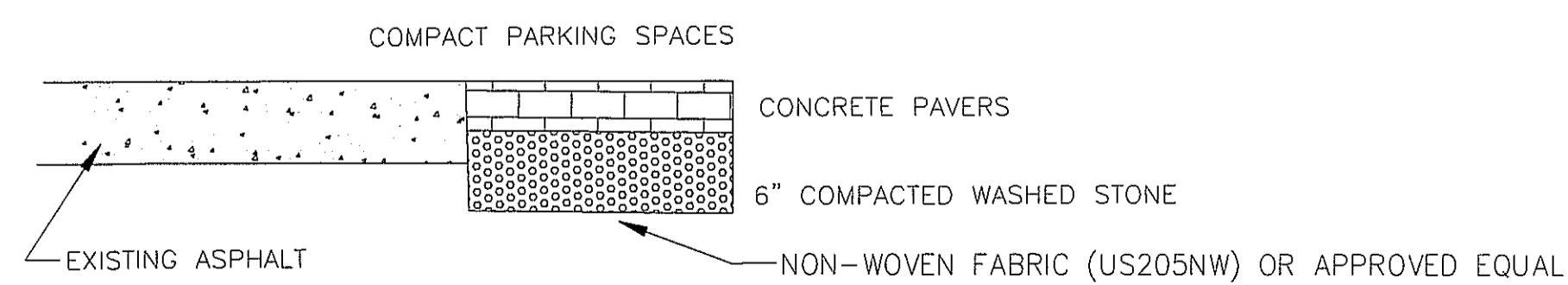
C4

**STORMWATER NOTES:**

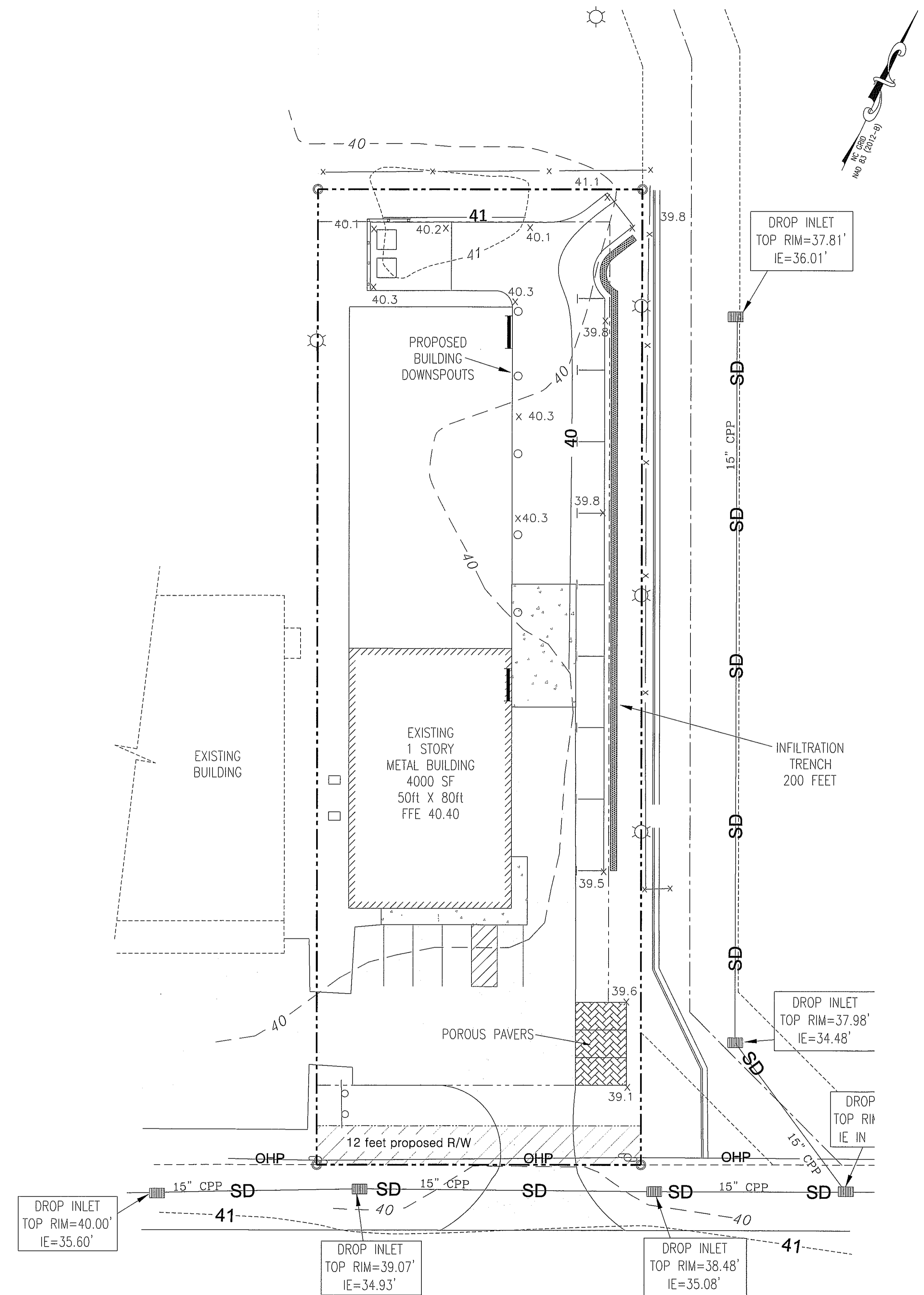
1. PROPOSED NEW IMPERVIOUS AREA 9,995 SF  
Proposed Building Area: 5250 sf  
Proposed Parking Area: 4745 sf
2. PROPOSED POROUS PAVING PARKING: 410 sf
2. PROVIDE A NEARLY LEVEL SUBGRADE FOR INFILTRATION TRENCH
3. ONE 4" PVC OBSERVATION WELL IS REQUIRED
4. INSTALL INFILTRATION TRENCH AFTER THE MAJORITY OF SITEWORK IS COMPLETED AND THE DRAINAGE AREA STABILIZED.



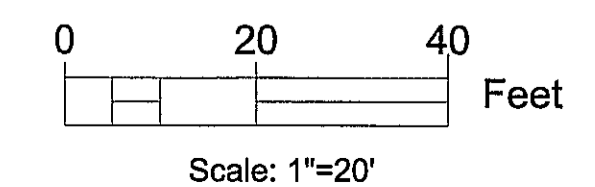
**Infiltration Trench Detail**



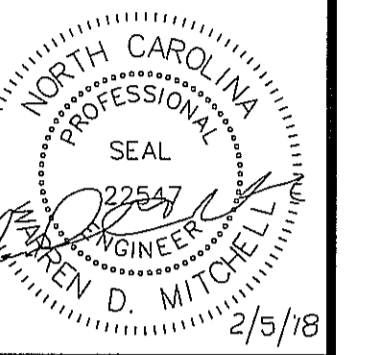
**Porous Paver Detail**



US HWY # 17 (MARKET STREET)



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Scale: 1"=20'

Stormwater Plan

C5