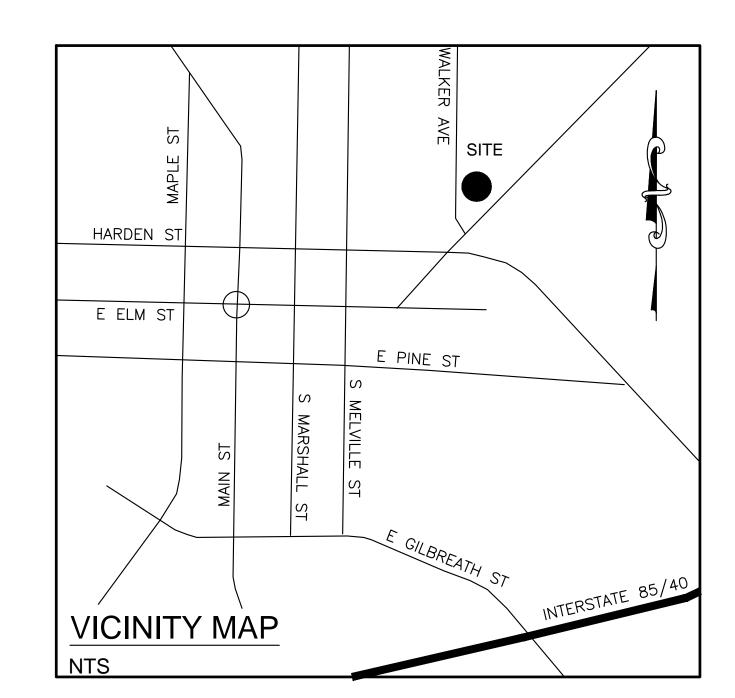
BMART CONVENIENCE STORE

GRAHAM TOWNSHIP, ALAMANCE COUNTY STATE OF NORTH CAROLINA

DATE: 06-09-2016 REVISED: 09-08-16



DEVELOPER INFORMATION:

BASSI 400 E. ELM STREET GRAHAM, NC 27253

ENGINEERING CONTACT:

BRENT C. SIEVERS, PE FLEMING ENGINEERING, INC 8518 TRIAD DRIVE COLFAX, NC 27235 (336) 544-6432 bsievers@flemingengineering.com

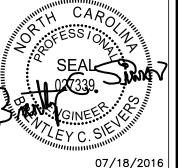
ABBREVIATIONS		SYME	BOLS & LINETYPE LEG	GEND	GENERAL PLAN NOTES		ORS
		PROPOSED	EXISTING				STING, AD SURVEY
ABAN ABANDONED ABC ASPHALT BASE COURSE	= CONCRETE	>>	>>	= DRAINAGE LINE	1. THIS IS A STANDARD ABBREVIATION & LEGEND SHEET, THEREFORE, NOT ALL ABBREVIATIONS & SYMBOLS MAY APPEAR ON THE FOLLOWING PLAN SHEETS.		- < .
AC ACRES AGG AGGREGATE	GRAVEL	— x — x — x —	x x x	= FENCE	2. AREAS BY COORDINATE COMPUTATION, RATIO OF PRECISION = 1:10,000+.		EERS
ARV AIR RELEASE VALVE ASPH ASPHALT	ASPHALT			= CENTERLINE	 LOCATION WORK SHOWN HEREON WAS DERIVED BY ABOVE GROUND INDICATORS ONLY, UNLESS OTHERWISE NOTED. 		
BC BACK OF CURB BEG BEGIN BFP BACKFLOW PREVENTER	ROCK			= CREEK/STREAM	4. THIS PROPERTY IS SUBJECT TO ANY EASEMENTS, AGREEMENTS, OR RIGHTS-OF-WAY		
BLDG BUILDING BMP BEST MANAGEMENT PRACTICES			го	= FIBER OPTIC	OF RECORD PRIOR TO THIS DATE AND NOT VISIBLE A THE TIME OF INSPECTION. 5. ALL CONSTRUCTION IS TO BE TO CITY OF GRAHAM AND NCDENR STANDARDS &		
BOL BOLLARD BTM BOTTOM				= FORCEMAIN	SPECIFICATIONS. 6. CONTRACTOR IS TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO		NSUI
CB CATCH BASIN C&G CURB AND GUTTER			GGG	= GAS	CONSTRUCTION.		
CI CURB INLET CIP CAST IRON PIPE			E E E	= OVERHEAD ELECTRIC	7. THIS PROPERTY IS LOCATED WITHIN ZONE X AS INDICATED ON THE FLOOD INSURANCE RATE MAP (FIRM) MAP NUMBER 3710888400J, EFFECTIVE DATE		
CL CENTERLINE CMON CONCRETE MONUMENT COMM COMMUNICATION		ss	ss	= SANITARY SEWER	SEPTEMBER 06, 2006. 8. BOUNDARY TAKEN FROM MAP PREPARED BY LANDMARK SURVEYING, DATED		× × × × × × × × × × × × × × × × × × ×
COMM COMMUNICATION CMP CORRUGATED METAL PIPE			st	= STORM DRAIN	06-29-2015.		
CMP CORRUGATED METAL PIPE CO CLEANOUT CONC CONCRETE CONST CONSTRUCTION			uc	= UNDERGROUND COMMUNICATIONS	9. LOCATIONS AND TOPOGRAPHIC SURVEY BY FLEMING ENGINEERING, INC. FIELD WORK DATE, 02-22-2016		
CRK CREEK CY CUBIC YARDS				= UNDERGROUND ELECTRIC			
DB DEED BOOK DCA DOUBLE CHECK ASSEMBLY			UT	UNDERGROUND TELEPHONEWATER LINE			
DEMO DEMOLITION DI DROP INLET			WWW	= ROOF DRAIN			
DIA DIAMETER DIP DUCTILE IRON PIPE			RDRD	= LANDSCAPED AREA			
DOM DOMESTIC DWG DRAWING DWY DRIVEWAY			+++++++++++++++++++++++++++++++++++++++	= RAILROAD TRACKS			
E ELECTRICAL EC EDGE OF CONCRETE			.~~~~.	= TREE LINE			-
EG EDGE OF GRAVEL EL, ELEV ELEVATION			600	CONTOUR LINES		RE	単
EP EDGE OF PAVEMENT EMH ELECTRICAL MANHOLE		600	602	= CONTOUR LINES		Ö	SH
ESMT EASEMENT EX EXISTING				= PROPERTY LINE		ST	9
FC FACE OF CURB FDC FIRE DEPARTMENT CONNECTION FES FLARED END SECTION				= EASEMENT LINE		CE	GEN
FES FLARED END SECTION FFE FINISHED FLOOR ELEVATION FG FINISH GRADE		—— X ——		= SILT FENCE			H.
FH FIRE HYDRANT FIP FOUND IRON PIPE		 · 	· ·	= DITCH			 න
FIR FOUND IRON ROD FL FLOWLINE				= DRAINAGE AREA			NO NO
FO FIBER OPTIC G GAS		· · · · · · · · · · · · · · · · · · ·	========	= DISTURBED AREA = CURB & GUTTER			
GI GRATE INLET GV GATE VALVE HDPE HIGH DENSITY POLYETHYLENE						၂၂	× ×
HVAC HEATING, VENTILATION, AIR CONDITIONING HYD HYDRANT				= BLOWOFF = CLEANOUT		A	E E
IRR IRRIGATION INV INVERT		•	0	= COMPUTED POINT			BRE
LF LINEAR FEET LP LIGHT POLE				= CURB INLET		m	AB
LT LEFT OFFSET FROM CENTERLINE MAX MAXIMUM MBL MAXIMUM/MINIMUM BUILDING LINE		©	©	= DRAINAGE MANHOLE			
MBL MAXIMUM/MINIMUM BUILDING LINE MH MANHOLE MIN MINIMUM		©	(E)	= ELECTRIC METER			
MJ MECHANICAL JOINT MON MONUMENT		E	E	= ELECTRIC PEDESTAL			i
NIC NOT IN CONTRACT NTS NOT TO SCALE		EQ	FQ	= FIBER OPTIC PEDESTAL/MARKER			
OC ON CENTER OHP OVERHEAD UTILITIES PB PLAT BOOK		•	<	= FLARED END SECTION			
PB PLAT BOOK PCC PORTLAND CEMENT CONCRETE PED PEDESTRIAN		©	©	= GAS METER GAS PEDESTAL/MARKER			
PG PAGE PL PROPERTY LINE		×	ŏ∨	= GAS VALVE			
PP POWER POLE PROP PROPOSED				= GRATE INLET			
PWR POWER PVC POLYVINYL CHLORIDE		**	X	= HYDRANT = HVAC			
R RADIUS RCP REINFORCED CONCRETE PIPE RR RAII ROAD			•	= IRON PIPE		N N	
RR RAILROAD RT RIGHT OFFSET FROM CENTERLINE R/W RIGHT OF WAY		.	±	= LIGHT POLE		EVISIO	
SD STORM DRAIN SDE SIGHT DISTANCE EASEMENT		• ©	<u> </u>	= MISCELLANEOUS METER		<u>~</u>	
SDMH STORM DRAIN MANHOLE SIP SET IRON PIPE		U	U	= MISCELLANEOUS UTILITY PEDESTAL/MARKER			
SF SQUARE FEET SS SANITARY SEWER		Δ	Δ	= REDUCER		DAT	
SSCO SANITARY SEWER CLEANOUT SSMH SANITARY SEWER MANHOLE STA STATION				= RIGHT OF WAY MONUMENT		9 4	
STD STANDARD STMH STORM MANHOLE		S	S	= SANITARY MANHOLE		DRAWN B	
SVC SERVICE LATERAL S/W SIDEWALK		T	ⅎ	= TELEPHONE BOX			06-09-201
TBM TRAVERSE BENCHMARK TEMP TEMPORARY		™	™	= TV BOX		PROJECT REF. NO.:	O.:
TMH TELEPHONE MANHOLE TPED TELEPHONE PEDESTAL TYPICAL				= TRANSFORMER TRANSMISSION TOWER		SCALE: 1	1:1 """""""""""""""""""""""""""""""""""
TYP TYPICAL T/C TOP OF CURB UG UNDERGROUND		<i>©</i>	~~ ~~	TRANSMISSION TOWERUTILITY POLE		ANTINITY C	THESSION
UG UNDERGROUND VCP VITRIFIED CLAY PIPE VG VALLEY GUTTER		· · · · · · · · · · · · · · · · · · ·	<u>\</u>	= WATER METER			SEAL<
WL WATER LINE WM WATER MAIN		<u></u> ⊗	⊗	= WATER VALVE		- Part	GINIFE'
WTR WATER WV WATER VALVE		(W)	(W)	= WELL	CON MUST CON.	Thinning the state of the state	ZEY C.S
Ϋ́Ι YARD INLET				= YARD GRATE	E AN UTILLIY AROYAN		

YARD INLET

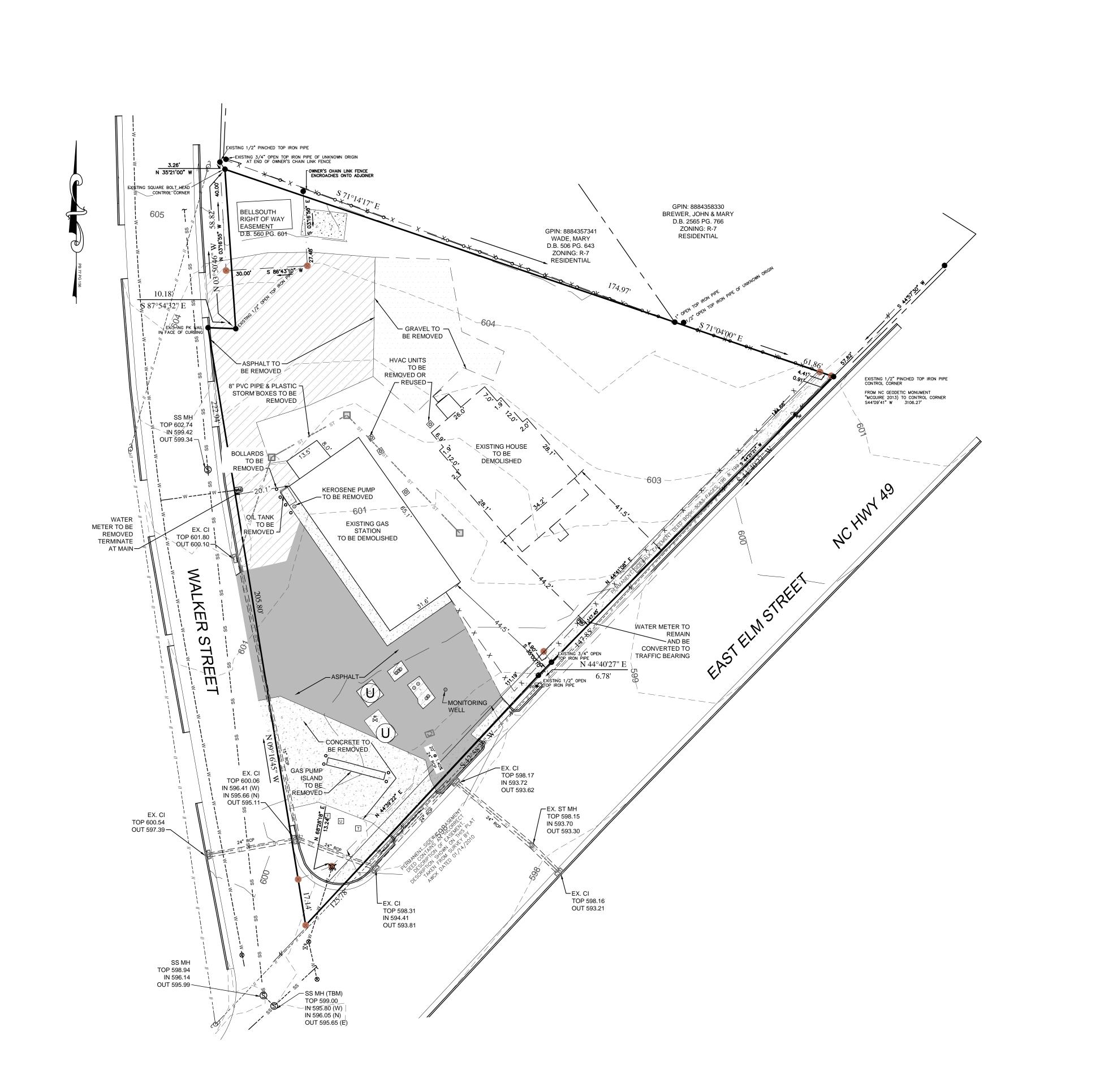
BENCHMARK



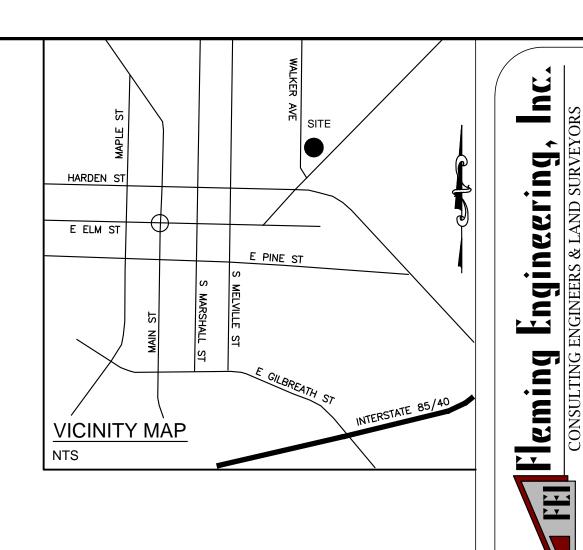
DEVELOPER INFORMATIO BASSI 400 E. ELM STREET GRAHAM, NC 27253



SHEET 2 of 8



1" = 20'



SITE DATA: GPIN#: 8884357124 PARCEL ID: 146539 OWNER NAME: BASSI MEHANGA & GURDEV ADDRESS: 400 E ELM STREET GRAHAM, NC 27253 TOTAL AREA: : 0.717 ACRES DEED BOOK 1451 PAGE 612 PLAT BOOK 77 PAGE156 ZONING: B-3 (LUC 3) ADJ. ZONING: R-7 (LUC 1)

B-3 ZONING REQUIREMENTS: MIN. LOT WIDTH: 60' FRONT YARD DEPTH: 20' SIDE YARD DEPTH: 20' (ADJ TO RES) SIDE YARD WIDTH (STREET): 20' REAR YARD DEPTH: 20'

WATERSHED DATA: NOT IN A DESIGNATED WATER SUPPLY WATERSHED CAPE FEAR RIVER BASIN SOIL TYPES: LaB2 AVG. EX. SLOPE: 3.5% DISTANCE TO FLOODWAY: 500' EX. BUA: 16,286 SF PROP. BUA: 16,261 SF DISTURBED AREA: 0.55 ACRES

BMART CONVENIENCE STORE CONDITIONS

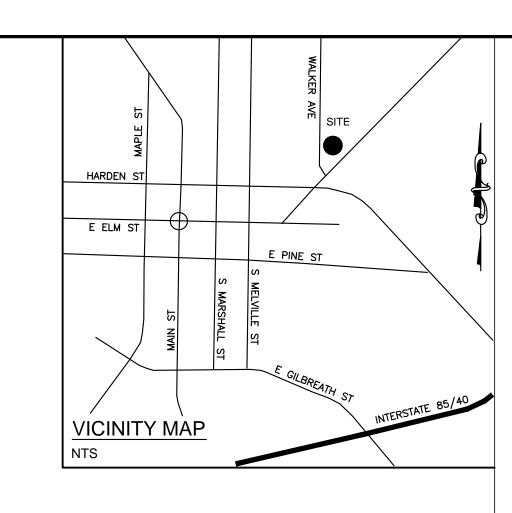
DRAWN BY: TLM CHECKED BY: DATE: 06-09-2016

PROJECT NO.: 285.01 REF. NO.: SCALE: 1:1



SHEET 3 of 8





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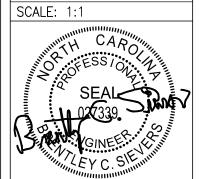
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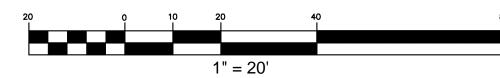
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DRAWN BY: TLM

CHECKED BY: DATE: 06-09-2016 PROJECT NO.: 285.01 REF. NO.:



SHEET 4 of 8

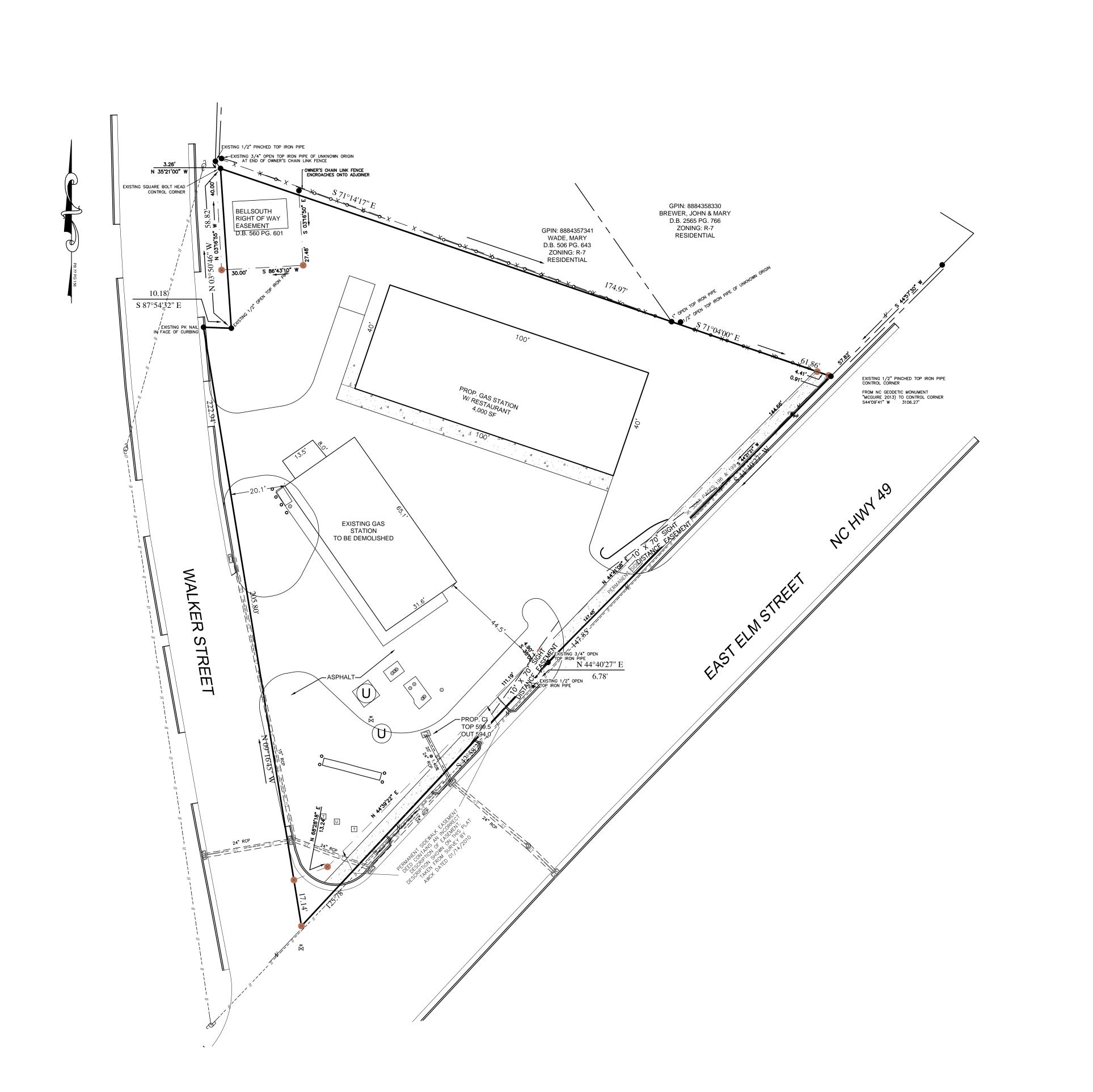


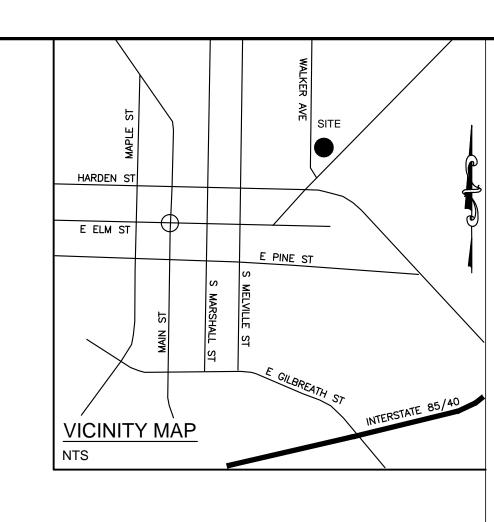
EXISTING BUA TO

EXISTING BUA TO REMAIN: 10,837 SF

NEW BUA: 6,350 SF

BE REMOVED: 6,951 SF





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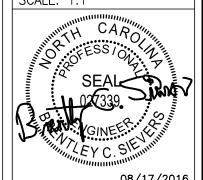
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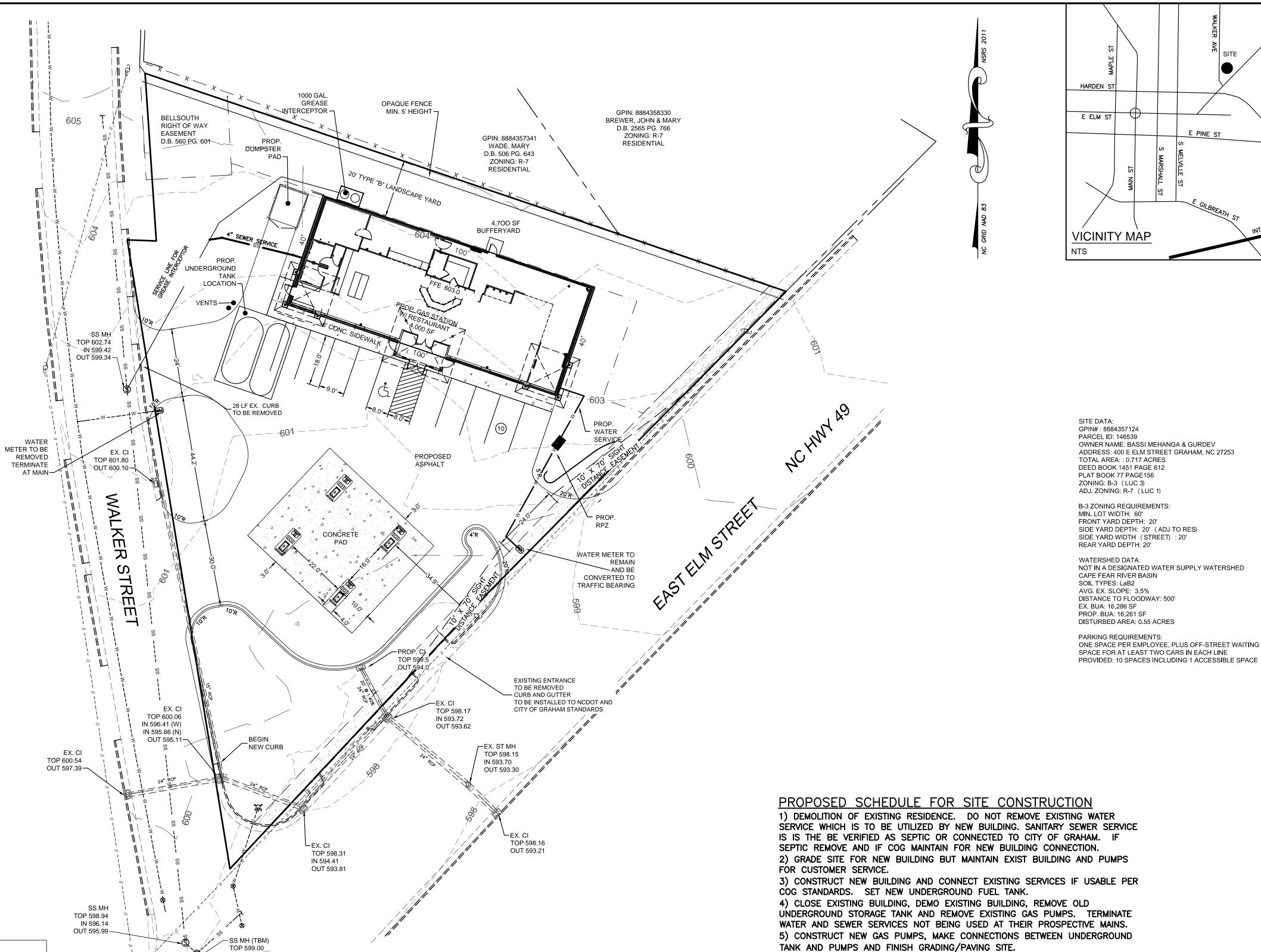
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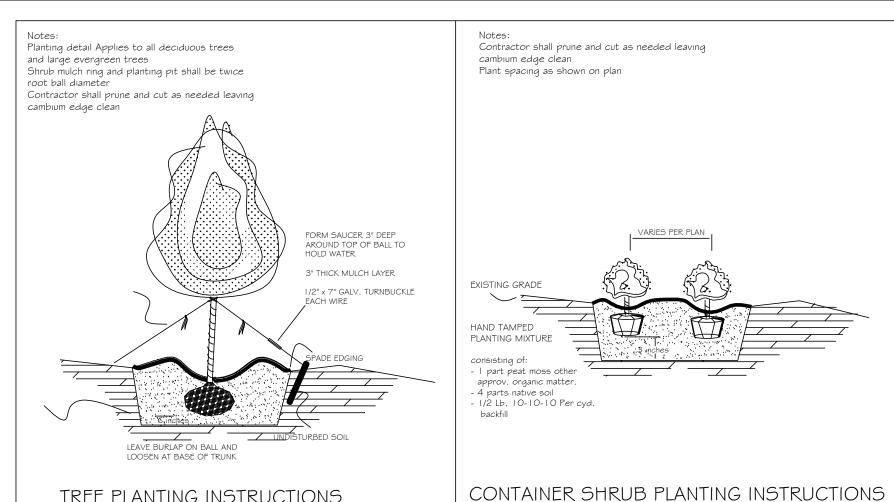
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SHEET 5 of 8







TREE PLANTING INSTRUCTIONS

UTILITY NOTE:

STRUCTURES.

THE EXISTING BUILDING UTILITIES ARE

SIDE OF THE PROPERTY AND WILL BE

DEMOLISHED. AS BUILDING IS TORN

REMOVED. NEW UTILITY CONNECTIONS

AFFECTED BY THE EXISTING BUILDING

ALL UTILITY CLEAN OUTS AND METER

PAVEMENT WILL BE TRAFFIC BEARING

BOXES THAT ARE LOCATED IN THE

ARE ON ELM STREET SIDE OF THE

LOCATED ON THE WALKER AVENUE

MAINTAINED UNTIL SUCH TIME THAT

THE EXISTING BUILDING WILL BE

DOWN THE UTILITIES CAN BE

PROPERTY AND WILL NOT BE

OPERATION OR DEMOLITION.

Contractor shall prune and cut as needed leaving cambium edge clean Plant spacing as shown on plan EXISTING GRADE HAND TAMPED PLANTING MIXTURE I part peat moss other approv. organic matter. - 4 parts native soil - 1/2 Lb. 10-10-10 Per cyd. backfill

LANDSCAPING IS TO BE 15% OF TOTAL SITE AREA. TOTAL SITE AREA: 0.717 ACRES (31,233 SF) 15% SITE AREA:0.11 ACRES (4685 SF)

		F	PLANTING YARD RAT	E CHART		
TYPE	Minimum Width (ft.)	Min. Avg. Width (ft.)	Maximum Width (ft.)	Canopy Tree Rate	Understory Tree Rate	Shrubs Rate
Street Yard	8	8	25	2/100 LF	NCc	17/100 LF
Type A Yard	40a	50a	75	4/100 LF/OC	10/100 LF/OC	33/100 LF/0
Type B Yard	25a	30a	50	3/100 LF	5/100 LF	25/100 LF
Type C Yard	15a	20a	40	2/100 LF b	3/100 LF	17/100 LF
Type D Yard	5	5	10	_	2/100 LF	18/100 LF
Parking Lot	N/A	N/A	N/A	1/12 Parking Spaces	NCc	N/A

a. Walls, a minimum of five feet in height, constructed of masonry, stone or pressure treated lumber or an opaque fence, a minimum of five feet in height, may be used to reduce the widths of the planting yards by ten feet.

b. In street yards, Type C and Type D planting yards and parking lots, understory trees may be substituted for canopy trees at the rate of two understory trees for each required Canopy Tree.

TOP 599.00 IN 595.80 (W)

IN 596.05 (N)

OUT 595.65 (E)

c. One understory tree may be substituted for each required canopy tree if the Technical Review Committee determines that there would be a major conflict with overhead utility lines.



1" = 20'

6) LANDSCAPE SITE AND PLANT GRASS IN DISTURBED AREAS. DO NOT REMOVE

EROSION CONTROL MEASURES UNTIL GRASS IS GERMINATING AND SITE IS STABLE.

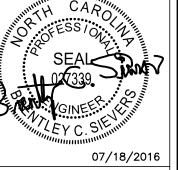


STORE

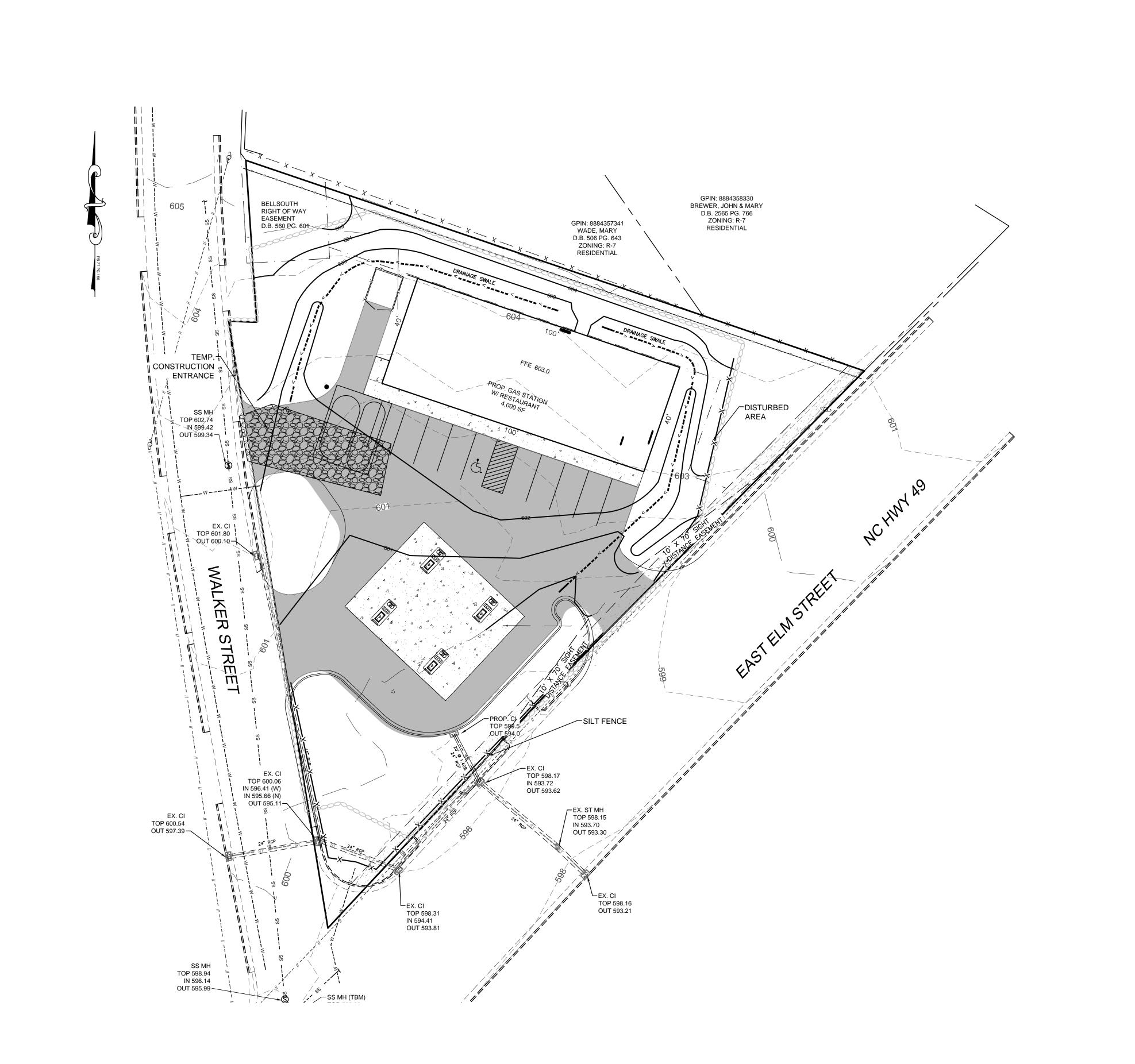
CONVENIENCE SITE BM,

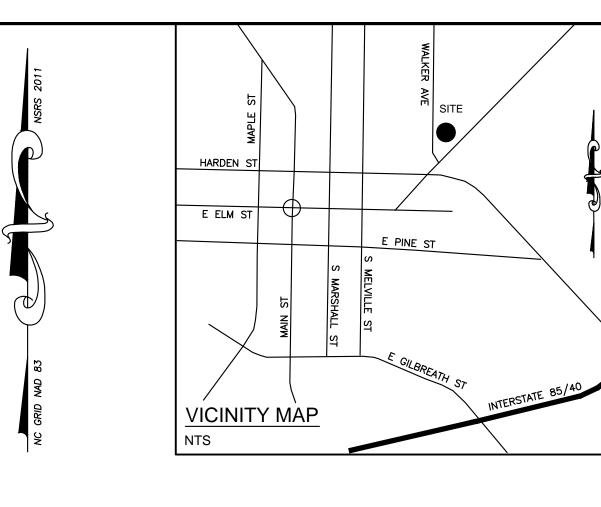
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DATE: 06-09-2016 PROJECT NO.: 285.01 REF. NO.: SCALE: 1:1



SHEET 6 of





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PARKING REQUIREMENTS: ONE SPACE PER EMPLOYEE, PLUS OFF-STREET WAITING SPACE FOR AT LEAST TWO CARS IN EACH LINE PROVIDED: 10 SPACES INCLUDING 1 ACCESSIBLE SPACE

EROSION CONTROL PLAN BMART CONVENIENCE STORE GRADIN

CONSULTING ENGINEERS & LAND SURVELLESS 8518 Triad Drive Colfax, NC 27235 one (336) 852-9797 License No. C-0950 www.FlemingEngineering.com

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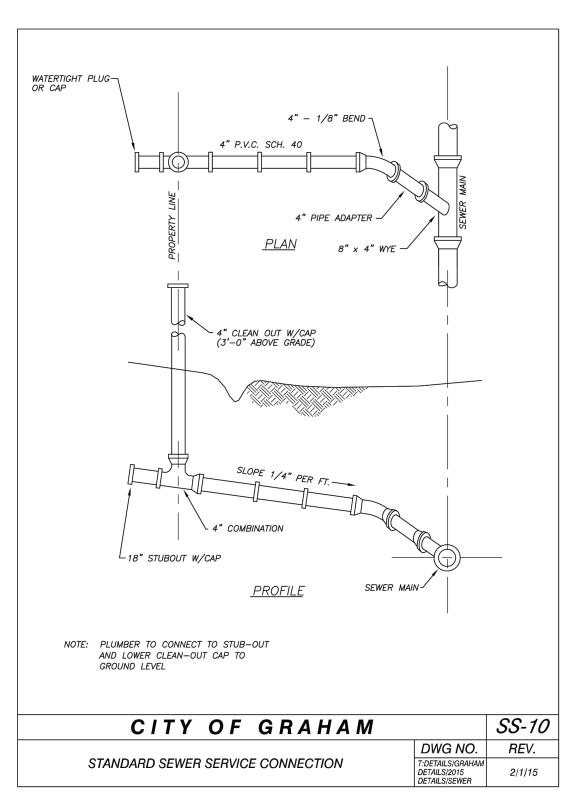
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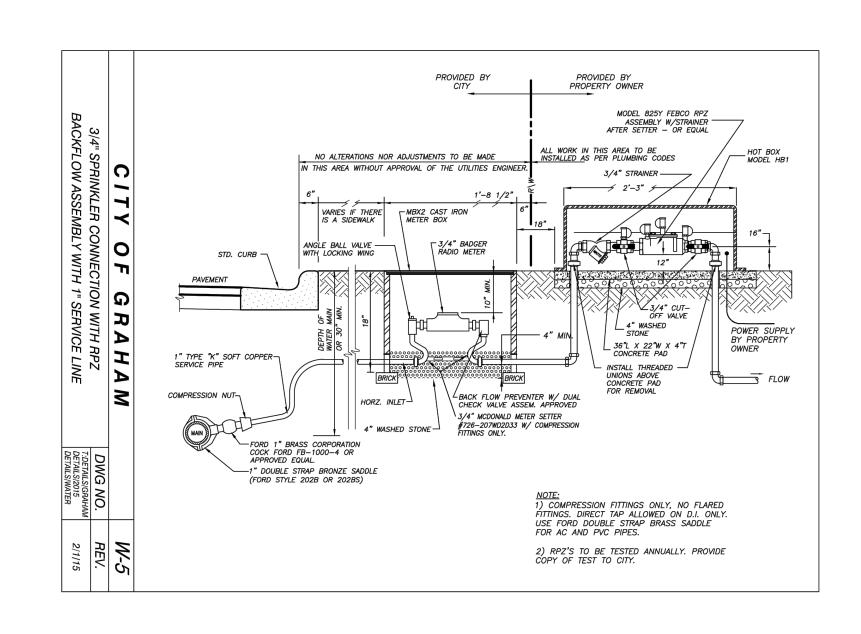
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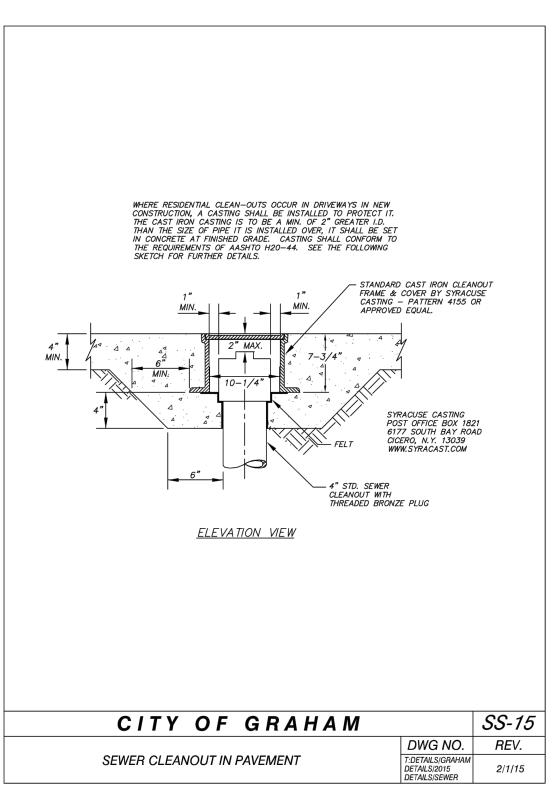
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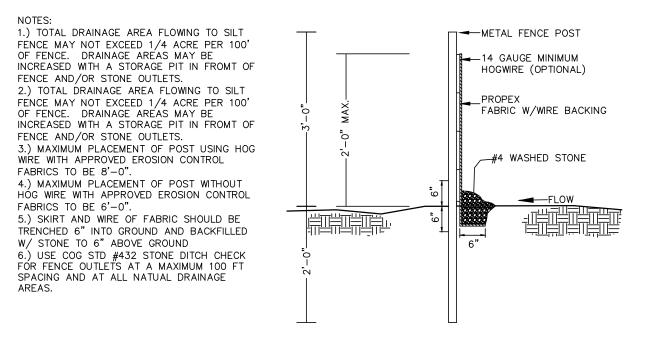
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SHEET 7 of 8







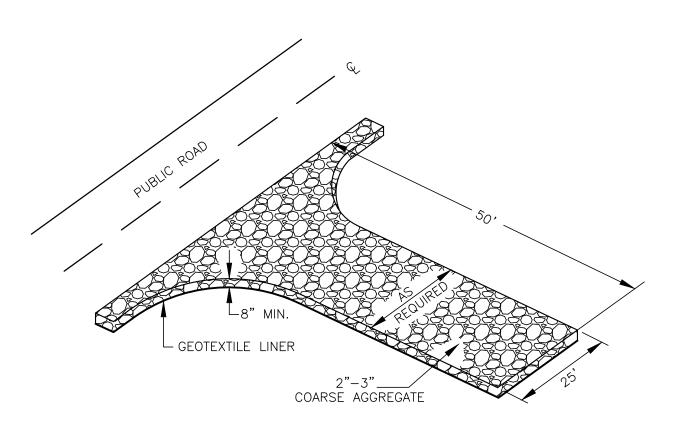


POST: METAL T-POST 5'-0" OR 6'-0" IN HEIGHT DEPENDING ON FILL SLOPE (MIN. 1.33 LB/LF STEEL CONSTRUCTION)

FABRIC: 3'-0" IN WIDTH (MUST MEET STANDARD SPECIFICATIONS FOR SILT FENCE — ASTM D 6461).

STONE: #4 WASHED STONE TO BE PLACED 1'-0" DEEP AT SILT FENCE

SILT FENCE DETAIL N.T.S.



TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

Construction 1. Clear the entrance area or all vegetation, roots, and other objectionable Specifications material and property grade it.

2. Place the gravel to the specific grade and dimensions shown on the plans, and smooth it.

3. Provide drainage to carry water to a sediment trap or other suitable outlet. 4. Use geotextile fabrics because they improve stability of the foundation in

Maintenance Maintain the gravel pad in a condition to prevent mud or sediment from leaving the construction site. This may require periodic topdressing with 2-inch stone.

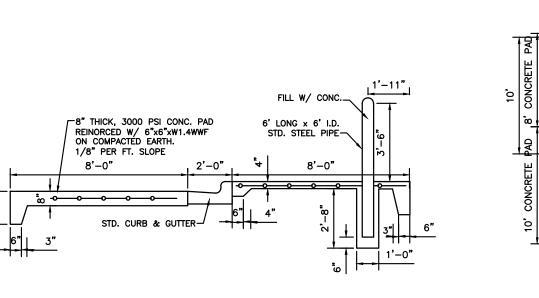
locations subject to seepage or high water table.

After each rainfall, inspect any structure used to trap sediment and clean it out as necessary. Immediately remove all objectionable materials spilled, washed, or

12' MIN. OPENING

tracked onto public roadways.

DUMPSTER SCREEN DETAIL



DUMPSTER PAD DETAIL COG STD. 1009

SINGLE DUMPSTER PAD W/ GATES COG STD. 1002

10' CONCRETE PAD

6" ID STEEL PIPE FILLED W/ CONCRETE

-GATES MUST BE ABLE

TO BE SECURED TO MAINTAIN

12' CLEAR OPENING

TEMPORARY SEEDINGS

SEEDING MIXTURE	SEEDING RATE	PLANTING DATES
Rye Grain and Kobe Lespedeza	l 20 lbs. 50 lbs.	Jan. I - May I
German Millet	40-50 lbs.	May 1 - Aug. 15
Rye (Grain) (may substitute oats before Oct. or wheat from Oct. -Nov. 5)	120 lbs.	Aug. 15 - Dec. 3

DEDMANENT CEEDINGC

Tall Fescue 200-250 lbs. Aug. 15 - Oct. 15 Feb. 15 May 1	PERMAN	ENT SEEDIN	NGS
(Low Maintenance) Feb. 15 - May I Tall Fescue 200-250 lbs. Aug. 15 - Oct. 15 Feb. 15 May I Waterways and Lawns (High Maint.) 200-250 lbs. Aug. 15 - Oct. 15 Feb. 15 May I Blend of two turftype tall Fescues (90%) and two or more improved Kentucky bluegrass varieties (10%) (high maintenance) Feb. 15 - May I Tall Fescue and Kobe or Kæan Lespedeza I/ Sericea Lespedeza I/ Sericea Lespedeza GO lbs. Jescue and German Millet or Sudangrass GO lbs. Nov. 1 - Feb. I (Unscanfied) Tall Fescue and German Millet or Sudangrass GO lbs. and Ryegrain GO lbs. and Ryegrain GO lbs. and Sericea Lespedeza GO lbs. and Sericea Common Bermudagrass SO lbs. Nov. 1 - Jan. 30 Common Bermudagrass SO lbs. (hulled) April 15 - June 30	PLANTS \$ MIXTURE	PLANTING RATE/ACRE	PLANTING DATES
Waterways and Lawns (High Maint.) Feb. 15 May 1 Blend of two turf- type tall Fescues (90%) and two or more improved Kentucky bluegrass varieties (10%) (high maintenance) Aug. 15 - Oct. 15 Feb. 15 - May 1 Tall Fescue and Kobe or Kæan Lespedeza / Sericea Lespedeza / Go lbs. /acre 100 lbs. Feb. 15 - May 1 Aug. 15 - Oct. 15 Tall Fescue and Sericea Lespedeza Go lbs. /acre 50 lbs. Nov. 1 - Feb. 1 (Unscarified) Tall Fescue and German Millet or Sudangrass / Sudangrass / 30 lbs. 40 lbs. Aug. 15 - Oct. 15 Tall Fescue and German Millet or Sudangrass / 30 lbs. 50 lbs. Nov. 1 - Feb. 1 (Unscarified) Tall Fescue and Ryegrain / 25 lbs. 70 lbs. Aug. Nov. 1 - Jan. 30 April 15 - June 30		100-150 lbs.	Aug. 15 - Oct. 15 Feb. 15 - May I
type tall Fescues (90%) and two or more improved Kentucky bluegrass varieties (10%) (high maintenance) Tall Fescue and Sericea Lespedeza Tall Fescue and Sericea Lespedeza Tall Fescue and Sericea Millet or Sudangrass Tall Fescue Tall Fescue Agerman Millet or Sudangrass Tall Fescue Tall Fescue Agerman Millet or Sudangrass Tall Fescue Agerman Millet or Agerman Millet April 15 - June 30	Waterways and	200-250 lbs.	Aug. 15 - Oct. 15 Feb. 15 May 1
and Kobe or Kæan Lespedeza I/ 20-25 lbs. Aug. 15 - Oct. 15 Tall Fescue and Sericea Lespedeza GO lbs./acre Golds./acre Golds./ac	type tall Fescues (90%) and two or more improved Kentucky bluegrass varieties (10%)	200-250 lbs.	Aug. 15 - Oct. 15 Feb. 15 - May 1
Sericea Lespedeza 60 lbs./acre Nov. 1 - Feb. I (Unscarified) Tall Fescue and German Millet or Sudangrassa 60 lbs. 30 lbs. July and August July and August German Millet or Sudangrassa Tall Fescue and Sudangrassa 70 lbs. 30 lbs. Nov. I - Jan. 30 lbs. Tall Fescue and Sudangrassa 25 lbs. Nov. I - Jan. 30 lbs. Common Bermudagrass 8 lbs. (hulled) April I 5 - June 30 lbs.	and Kobe or Kæan	and	Feb. 15 - May I Aug. 15 - Oct. 15
German Millet or Sudangrass2 and 30 lbs. Tall Fescue and Ryegrain2 70 lbs. and and Ryegrain2 Nov. I - Jan. 30 Common Bermudagrass 8 lbs. (hulled) April 15 - June 30			
and and Ryegrain 2 25 lbs. Common Bermudagrass 8 lbs. (hulled) April 15 - June 30	German Millet or	and	July and August
	and	and	Nov. I - Jan. 30
, ,	Common Bermudagrass	8 lbs. (hulled) I 5-20 lbs. (unhulled)	April 15 - June 30 Feb. 1 - March 30

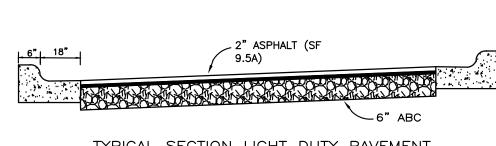
I/ For spring seedings, use Scarified Lespedeza seed. For late fall and werterings, use unscarified seed. 2/ Annuals such as Millet, Sudangrass and Ryegrain must be kept at 10-12" maximum height.

Prepare seedbed by ripping, chiseling, harrowing or plowing to depth of six inches so as to produce a loose, friable surface. Remove all stones, boulders, stumps or debris from the surface which would prohibit germination or plant growth.

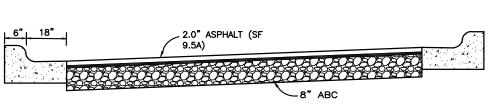
Incorporate into the soil 800 to 1,000 pounds of 10-10-10 fertilizer plus 500 pounds of twenty percent (20%) superphosphate per acre and two tons of dolomitic lime per acre unless soil tests indicate that a lower rate of lime be used.

Mulch after seeding with 2.0 tons of grain straw per acre and either crimp straw into soil or tack with liquid asphalt at 400 gallons per acre or emulsified asphalt at 300 gallons per acre.

Site Area Description	Stabilization Time Frame	Stabilization Time Frame Exceptions
Perimeter Dikes, Swales, Ditches and Slopes	7 Days	None
High Quality Water (HQW) Zones	7 Days	None
Slopes Steeper than 3:1	7 Days	If slopes are 10' or less in length and are not steepe than 2:1, 14 Days are allowed.
Slopes 3:1 or flatter	14 Days	7-Days for slopes greater than 50 feet in length
All other areas with Slopes flatter than 4:1	14 Days	None (except for perimeters and HQW zones)



TYPICAL SECTION LIGHT DUTY PAVEMENT N.T.S.



TYPICAL SECTION HEAVY DUTY PAVEMENT N.T.S.

SHEET 8 of 8

DRAWN BY: TLM

CHECKED BY: DATE: 06-09-2016 PROJECT NO.: 285.01

REF. NO.: SCALE: 1:1 18 33 W

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CONVENIENCE

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