PROJECT	CLAYTON GLASS/FLEX BUILDING	Rev-0
ADDRESS	SMITHFIELD, NORTH CAROLINA	
Date of plans		
Date of submission		
BASE BID	$ -	

SR. NO.	DWG. NO.	DETAIL NO.	CSI	DESCRIPTION	QTY.	WASTE	QTY. W/ WASTE	UNIT	Labor Cost	Material Cost	TOTAL UNIT COST	TOTAL COST	SUB TOTAL
				DEMOLITION									
				DEMOLITION									
	CE-02	CE-02		Sawcut	148	0%	148	LF	$ -	$ -	$ -	$ -	
	CE-02	CE-02	**37 CY**	Removed Asphalt Pavement	1191	0%	1,191	SF	$ -	$ -	$ -	$ -	
	CE-02	CE-02	**37 CY**	Loads to be hauled away (20 loads/CY)	2	0%	2	Loads	$ -	$ -	$ -	$ -	
				Subtotal									$ -
				EROSION SEDIMENT CONTROL									
				EROSION SEDIMENT CONTROL									
	C5.00	Plan		Allowance for eroison sediment control Item	1	0%	1	LS	$ -	$ -	$ -	$ -	
				Erosion control items not found in plan.so we have provided allowance.									
				Subtotal									$ -
				EARTHWORK									
				GRADING FOR ON SITE									
	CE-03			Clearing & Grubbiing - Area: 129,998 SF	1	0%	1	LS	$ -	$ -	$ -	$ -	
	CE-03	Assumed		6" Topsoil Stripping Assumed - Area: 129,998 SF	2407	3%	2,480	CY	$ -	$ -	$ -	$ -	
	CE-03	Assumed		6" Topsoil Respread Assumed - Area: 44,710 SF	828	3%	853	CY	$ -	$ -	$ -	$ -	
	CE-03			Excess Topsoil	1579	3%	1,627	CY					
				We have assumed detail of topsoil stripping and topsoil respread.									
	CE-03			Loads to be hauled away (20 loads/CY)	82	0%	82	Loads	$ -	$ -	$ -	$ -	
	CE-03	Grading Model		Cut for mass grading	5293	3%	5,452	CY	$ -	$ -	$ -	$ -	
	CE-03	Grading Model		Fill for mass grading	4414	3%	4,546	CY	$ -	$ -	$ -	$ -	
	CE-03	Grading Model		Net Cut	879	3%	905	CY					
	CE-03			Excavation For Trench /footing	914	3%	941	CY					
	CE-03			Backfill For Trench /footing	512	3%	527	CY					
	CE-03			Excess Soil	402	3%	414	CY					
	CE-03			Net Cut	1281	0%	1,281	CY					
	CE-03			Loads to be Imported (20 loads/CY)	65	0%	65	Loads	$ -	$ -	$ -	$ -	
				Subtotal									$ -

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				SITE IMPROVEMNETS									
				HD ASPHALT PAVEMENT									
	CE-02	Plan		3" SF9.5B Asphalt Pavement	20349	3%	20,959	SF	$ -	$ -	$ -	$ -	
	CE-02	Plan		8" CABC Aggreagte	505	3%	520	CY	$ -	$ -	$ -	$ -	
	CE-02	Plan		Compacted Subgrade	20349	3%	20,959	SF	$ -	$ -	$ -	$ -	
				LIGHT DUTY ASPHALT PAVEMENT									
	CE-02	Plan		2" SF9.5B Asphalt Pavement	5006	3%	5,156	SF	$ -	$ -	$ -	$ -	
	CE-02	Plan		6" CABC Aggreagte	93	3%	95	CY	$ -	$ -	$ -	$ -	
	CE-02	Plan		Compacted Subgrade	5006	3%	5,156	SF	$ -	$ -	$ -	$ -	
				HEAVY DUTY CONCRETE LOADING DOCK AREA									
	CE-02	Plan	**66 CY**	8" Thick Concrete Pavement 4000 PSI	2577	3%	2,654	SF	$ -	$ -	$ -	$ -	
	CE-02	Plan		Control Joint	412	3%	425	LF	$ -	$ -	$ -	$ -	
	CE-02	Plan		Expantion Joint	206	3%	212	LF	$ -	$ -	$ -	$ -	
	CE-02	Plan		8" CABC Aggreagte	64	3%	66	CY	$ -	$ -	$ -	$ -	
	CE-02	Plan		8" Edge Form	206	3%	212	LF	$ -	$ -	$ -	$ -	
	CE-02	Plan		Compacted Subgrade	2577	3%	2,654	SF	$ -	$ -	$ -	$ -	
				CONCRETE PAD AT TRASH									
	CE-02	Plan	**4 CY**	8" Thick Concrete Pavement 4000 PSI	143	3%	147	SF	$ -	$ -	$ -	$ -	
	CE-02	Plan		Control Joint	23	3%	24	LF	$ -	$ -	$ -	$ -	
	CE-02	Plan		Expantion Joint	11	3%	12	LF	$ -	$ -	$ -	$ -	
	CE-02	Plan		8" CABC Aggreagte	4	3%	4	CY	$ -	$ -	$ -	$ -	
	CE-02	Plan		8" Edge Form	48	3%	49	LF	$ -	$ -	$ -	$ -	
	CE-02	Plan		Compacted Subgrade	143	3%	147	SF	$ -	$ -	$ -	$ -	
				CONCRETE SIDEWALK									
	CE-02	Plan	**36 CY**	4" Thick Concrete Sidewalk 4000 PSI	2789	3%	2,873	SF	$ -	$ -	$ -	$ -	
	CE-02	Plan		Control Joint	446	3%	460	LF	$ -	$ -	$ -	$ -	
	CE-02	Plan		Expantion Joint	223	3%	230	LF	$ -	$ -	$ -	$ -	
	CE-02	Plan		4" Edge Form	580	3%	597	LF	$ -	$ -	$ -	$ -	
	CE-02	Plan		Compacted Subgrade	2789	3%	2,873	SF	$ -	$ -	$ -	$ -	
				GRAVEL									
	CE-02	Plan		8" Thick CABC Gravel	774	3%	797	CY	$ -	$ -	$ -	$ -	
				RETAINING WALL									

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	CE-02	Plan		Allan Block Classic Wall -Color: Cross Creek -Geogrid Reinforced Type -Well Graded Granular Wall Rock -Filter Fabric Average H: +-5	1860	3%	1,916	SF	$ -	$ -	$ -	$ -	
				SIGN FOOTING -Dia:1'-0" -Depth:4'-0" Count: 4 EA									
	CE-02	Assumed		Concrete 3500 PSI	2	3%	2	CY	$ -	$ -	$ -	$ -	
	CE-02	Assumed		Excavation	4	3%	4	CY	$ -	$ -	$ -	$ -	
	CE-02	Assumed		Backfill	2	3%	2	CY	$ -	$ -	$ -	$ -	
	CE-02	Assumed		Circular Formwork	100	3%	103	SFCA	$ -	$ -	$ -	$ -	
	CE-02	Assumed		H.C Sign	4	0%	4	EA	$ -	$ -	$ -	$ -	
				BOLLARDS FOOTING -Dia:2'-0" -Depth:4'-0" Count: 2 EA									
	CE-02	Assumed		Concrete 3500 PSI	1	3%	1	CY	$ -	$ -	$ -	$ -	
	CE-02	Assumed		Excavation	2	3%	2	CY	$ -	$ -	$ -	$ -	
	CE-02	Assumed		Backfill	1	3%	1	CY	$ -	$ -	$ -	$ -	
	CE-02	Assumed		Circular Formwork	50	3%	52	SFCA	$ -	$ -	$ -	$ -	
	CE-02	Assumed		Bollards	3	0%	3	EA	$ -	$ -	$ -	$ -	
				CURB									
	CE-02	CE-02		Concrete Curb	281	3%	289	LF	$ -	$ -	$ -	$ -	
				MISC ITEMS									
	CE-02			Landscape Area	1077	3%	1,109	SF	$ -	$ -	$ -	$ -	
	CE-02			2" CALIPE 8'-0" H Trees	10	0%	10	EA	$ -	$ -	$ -	$ -	
	CE-02			Asphalt valley Swale	155	3%	160	SF	$ -	$ -	$ -	$ -	
	CE-02			Wheel Stop	28	0%	28	EA	$ -	$ -	$ -	$ -	
				PAVEMENT MARKING									
	CE-02	CE-02		ADA Accessible Marking	216	3%	223	LF	$ -	$ -	$ -	$ -	
	CE-02	CE-02		ADA Accessible Marking Symbol	4	0%	4	EA	$ -	$ -	$ -	$ -	
	CE-02	CE-02		Parking Stall Marking	460	3%	474	LF	$ -	$ -	$ -	$ -	
				Subtotal									$ -

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				SITE UTILITIES									
				STORM SERVICES									
	CE-03	Plan		24" RCP Storm Line	11	3%	11	LF	$ -	$ -	$ -	$ -	
	CE-03	Plan		Excavation	9	3%	10	CY	$ -	$ -	$ -	$ -	
	CE-03	Plan		Bedding Material	4	3%	4	CY	$ -	$ -	$ -	$ -	
	CE-03	Plan		Backfill	4	3%	4	CY	$ -	$ -	$ -	$ -	
	CE-03	Plan		18" RCP Storm Line	89	3%	92	LF	$ -	$ -	$ -	$ -	
	CE-03	Plan		Excavation	69	3%	71	CY	$ -	$ -	$ -	$ -	
	CE-03	Plan		Bedding Material	29	3%	30	CY	$ -	$ -	$ -	$ -	
	CE-03	Plan		Backfill	35	3%	36	CY	$ -	$ -	$ -	$ -	
	CE-03	Plan		15" RCP Class IV Storm Line	164	3%	169	LF	$ -	$ -	$ -	$ -	
	CE-03	Plan		Excavation	118	3%	122	CY	$ -	$ -	$ -	$ -	
	CE-03	Plan		Bedding Material	47	3%	48	CY	$ -	$ -	$ -	$ -	
	CE-03	Plan		Backfill	64	3%	66	CY	$ -	$ -	$ -	$ -	
	CE-03	Plan		15" RCP Storm Line	541	3%	557	LF	$ -	$ -	$ -	$ -	
	CE-03	Plan		Excavation	391	3%	402	CY	$ -	$ -	$ -	$ -	
	CE-03	Plan		Bedding Material	154	3%	159	CY	$ -	$ -	$ -	$ -	
	CE-03	Plan		Backfill	212	3%	218	CY	$ -	$ -	$ -	$ -	
	CE-03	Plan		6" Roof Drain Line	367	3%	378	LF	$ -	$ -	$ -	$ -	
	CE-03	Plan		Excavation	170	3%	175	CY	$ -	$ -	$ -	$ -	
	CE-03	Plan		Bedding Material	65	3%	67	CY	$ -	$ -	$ -	$ -	
	CE-03	Plan		Backfill	102	3%	105	CY	$ -	$ -	$ -	$ -	
				STORM STRUCTURE									
	CE-03	Plan		Drain Inlet -Size: 2'-0" x 3'-0"	7	0%	7	EA	$ -	$ -	$ -	$ -	
	CE-03	Plan		Excavation	19	3%	19	CY	$ -	$ -	$ -	$ -	
	CE-03	Plan		Backfill	11	3%	11	CY	$ -	$ -	$ -	$ -	
				MISC ITEMS									
	CE-03	Plan		15" RCP Flared End Section	1	0%	1	EA	$ -	$ -	$ -	$ -	
	CE-03	Plan		6" 45 Degree Bend	14	0%	14	EA	$ -	$ -	$ -	$ -	
	CE-03	Plan		6" Cleanout Roof Drain	12	0%	12	EA	$ -	$ -	$ -	$ -	
	CE-03	Plan		6" Wye Connection	8	0%	8	EA	$ -	$ -	$ -	$ -	
	CE-03	Plan		OCS 2'-0" x 3'-0"	1	0%	1	EA	$ -	$ -	$ -	$ -	
				WATER SERVICES									

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SR. NO.	DWG. NO.	DETAIL NO.	CSI	DESCRIPTION	QTY.	WASTE	QTY. W/ WASTE	UNIT	Labor Cost	Material Cost	TOTAL UNIT COST	TOTAL COST	SUB TOTAL
	CE-03	Plan		8" Dip Water Line	49	3%	51	LF	$ -	$ -	$ -	$ -	
	CE-03	Plan		Excavation	29	3%	30	CY	$ -	$ -	$ -	$ -	
	CE-03	Plan		Clean Well Graded Material	10	3%	10	CY	$ -	$ -	$ -	$ -	
	CE-03	Plan		Backfill	19	3%	19	CY	$ -	$ -	$ -	$ -	
	CE-03	Plan		2" Water Service Line	110	3%	114	LF	$ -	$ -	$ -	$ -	
	CE-03	Plan		Excavation	44	3%	46	CY	$ -	$ -	$ -	$ -	
	CE-03	Plan		Clean Well Graded Material	15	3%	15	CY	$ -	$ -	$ -	$ -	
	CE-03	Plan		Backfill	30	3%	30	CY	$ -	$ -	$ -	$ -	
				MISC ITEMS									
	CE-03	CE-03		1.5" Water Meter	1	0%	1	EA	$ -	$ -	$ -	$ -	
	CE-03	CE-03		16" x 16" x 8" TEE Sleeve and valve	1	0%	1	EA	$ -	$ -	$ -	$ -	
	CE-03	CE-03		2" Water Service Tap	1	0%	1	EA	$ -	$ -	$ -	$ -	
	CE-03	CE-03		8" Gate Valve	1	0%	1	EA	$ -	$ -	$ -	$ -	
	CE-03	CE-03		Backflow Preventor	1	0%	1	EA	$ -	$ -	$ -	$ -	
	CE-03	CE-03		Connection to Building	1	0%	1	EA	$ -	$ -	$ -	$ -	
	CE-03	CE-03		Fire Hydrant	1	0%	1	EA	$ -	$ -	$ -	$ -	
	CE-03	CE-03		Hosse Pull Line	709	10%	780	LF	$ -	$ -	$ -	$ -	
				SANITARY SERVICES									
	CE-03	Plan		4" PVC Sanitary Line	104	3%	107	LF	$ -	$ -	$ -	$ -	
	CE-03	Plan		Excavation	45	3%	46	CY	$ -	$ -	$ -	$ -	
	CE-03	Plan		Clean Well Graded Material	16	3%	17	CY	$ -	$ -	$ -	$ -	
	CE-03	Plan		Backfill	28	3%	29	CY	$ -	$ -	$ -	$ -	
	CE-03	Plan		48" Dia Storm Manhole With Frame and cover	3	0%	3	EA	$ -	$ -	$ -	$ -	
	CE-03	Plan		Excavation	13	3%	13	CY	$ -	$ -	$ -	$ -	
	CE-03	Plan		Clean Well Graded Material	2	3%	2	CY	$ -	$ -	$ -	$ -	
	CE-03	Plan		Backfill	5	3%	5	CY	$ -	$ -	$ -	$ -	
				MISC ITEMS									
	CE-03	CE-03		4" 45 Degree Bend	1	0%	1	EA	$ -	$ -	$ -	$ -	
	CE-03	CE-03		Connection To Building	1	0%	1	EA	$ -	$ -	$ -	$ -	
	CE-03	CE-03		Connection To Existing Line	1	0%	1	EA	$ -	$ -	$ -	$ -	
				Subtotal									$ -
TOTAL												$ -	$ -
OVER HEAD & PROFIT											15.00%	$ -	$ -
SALES TAX											6.00%	$ -	$ -
BASE BID												$ -	$ -

Colour Key

195.6
193.3
191.1
188.9
186.7
184.5
182.3
180
Levels (ft)

Scale

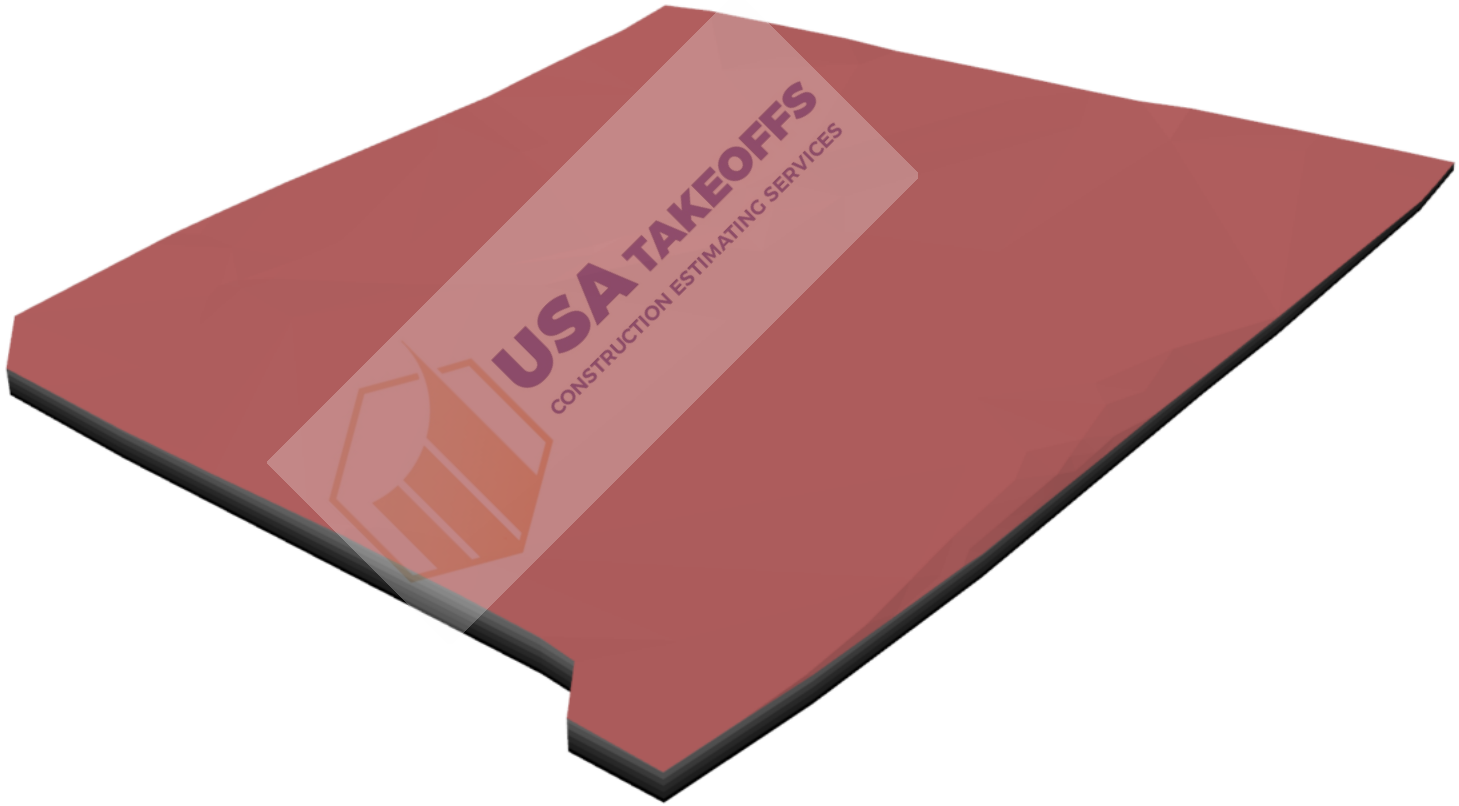
OFF
Vertical Exaggeration

Existing | Topsoil Stripping | Cut & Fill | +

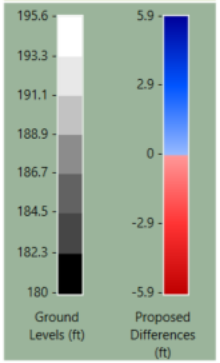
Cut	
Volume	2,407.38yd³
2D Area	129,998.27ft²
3D Area	130,142.84ft²
Depths	0.50ft Av., 0.50ft Max.
Levels	181.24ft to 195.00ft

Fill	
Volume	--
2D Area	--
3D Area	--
Heights	--
Levels	--

Cut & Fill	
Net Volume	2,407.38yd³ cut
2D Area	129,998.27ft²
3D Area	130,142.84ft²
Range	-0.50ft to 0.00ft, -0.50ft Av.
Levels	181.24ft to 195.00ft



Colour Keys



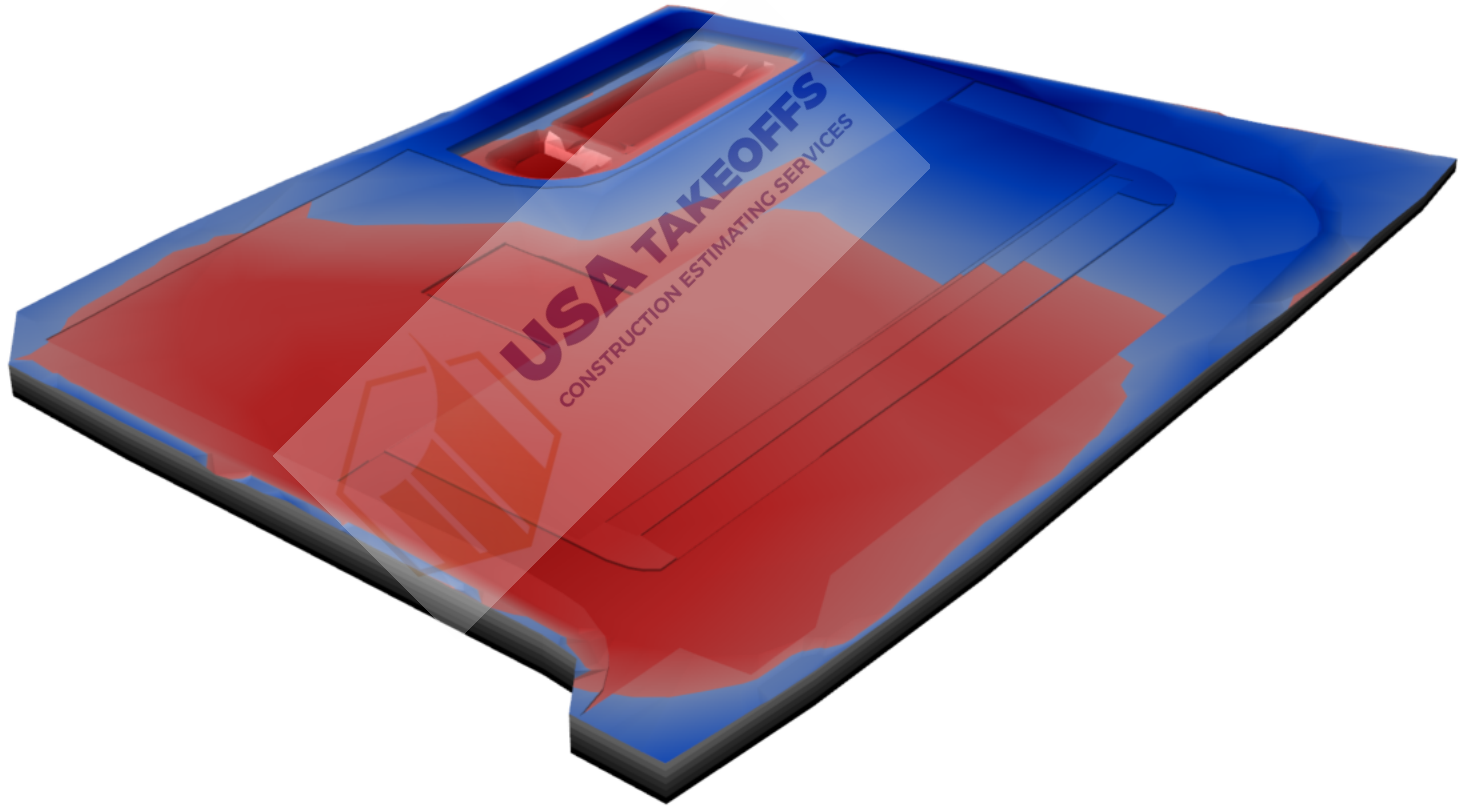
Scale

Existing | Topsoil Stripping | Cut & Fill | +

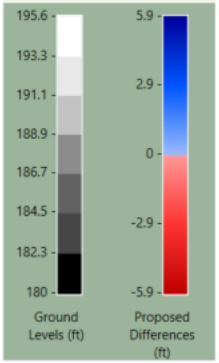
Cut	
Volume	5,292.77yd³
2D Area	72,859.82ft²
3D Area	75,255.37ft²
Depths	1.96ft Av., 5.89ft Max.
Levels	180.00ft to 194.50ft

Fill	
Volume	4,414.25yd³
2D Area	57,138.45ft²
3D Area	59,314.52ft²
Heights	2.09ft Av., 5.89ft Max.
Levels	181.24ft to 195.62ft

Cut & Fill	
Net Volume	878.51yd³ cut
2D Area	129,998.27ft²
3D Area	134,569.89ft²
Range	-5.89ft to 5.89ft, -0.18ft Av.
Levels	180.00ft to 195.62ft



Colour Keys

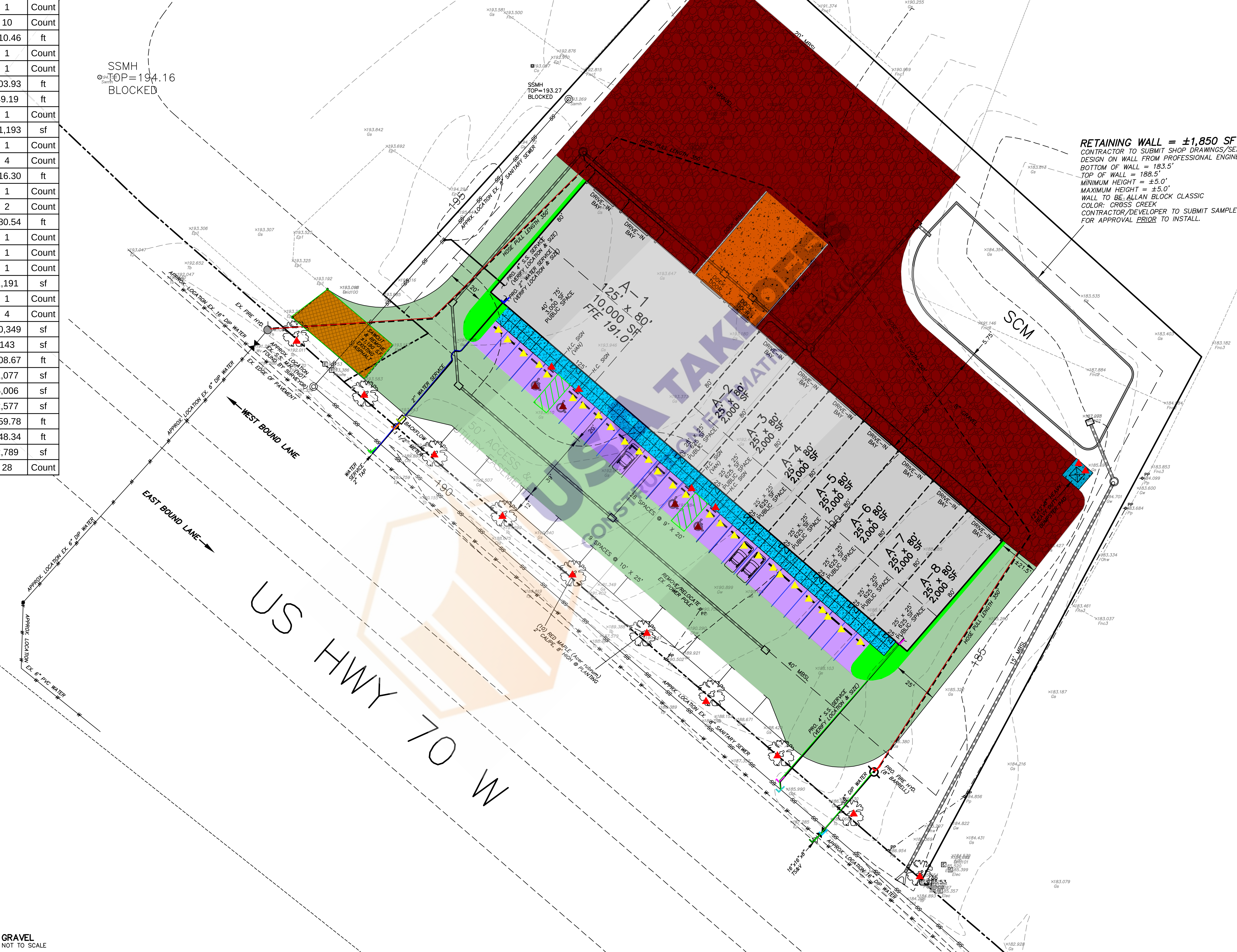


Scale

Existing | Topsoil Stripping | Cut & Fill | +

BEFORE YOU DIG, CALL
811
NORTH CAROLINA
ONE CALL CENTER
www.ncocc.org

Legend			
	Label	Quantity	Unit
✓	1.5" WATER METER	1	Count
▲	2" CALIPE 8'-0" H	10	Count
/	2" WATER SERVICE LINE	110.46	ft
✓	2" WATER SERVICE TAP	1	Count
✓	4" 45 DEGREE BEND	1	Count
/	4" SANITARY SEWER LINE	103.93	ft
/	8" DIP WATER LINE	49.19	ft
✓	8" GATE VALVE	1	Count
■	8" THICK GRAVEL	31,193	sf
✓	16" x 16" x 8" TEE SLEEVE AND VALVE	1	Count
▲	ADA ACCESSIBLE MARKING SYMBOL	4	Count
/	ADA ACCESSIBLE MARKING	216.30	ft
✓	BACKFLOW PREVENTER	1	Count
▲	BOLLARDS	2	Count
/	CONCRETE CURB	280.54	ft
✓	CONNECTION TO BUILDING SANITARY	1	Count
✓	CONNECTION TO BUILDING WATER	1	Count
✓	CONNECTION TO EXISTING LINE	1	Count
■	EXISTING ASPHALT TBR	1,191	sf
✓	FIRE HYDRANT	1	Count
▲	H.C SIGN	4	Count
■	HD ASPHALT PAVEMENT	20,349	sf
■	HD CONCRETE PAD	143	sf
/	HOSSE PULL LINE	708.67	ft
■	LANDSCAPE AREA	1,077	sf
■	LIGHT DUTY ASPHALT PAVEMENT	5,006	sf
■	LOADING DOCK AREA	2,577	sf
/	PARKING STALL MARKING	459.78	ft
/	SAWCUT	148.34	ft
■	SIDEWALK	2,789	sf
▲	WHEEL STOP	28	Count

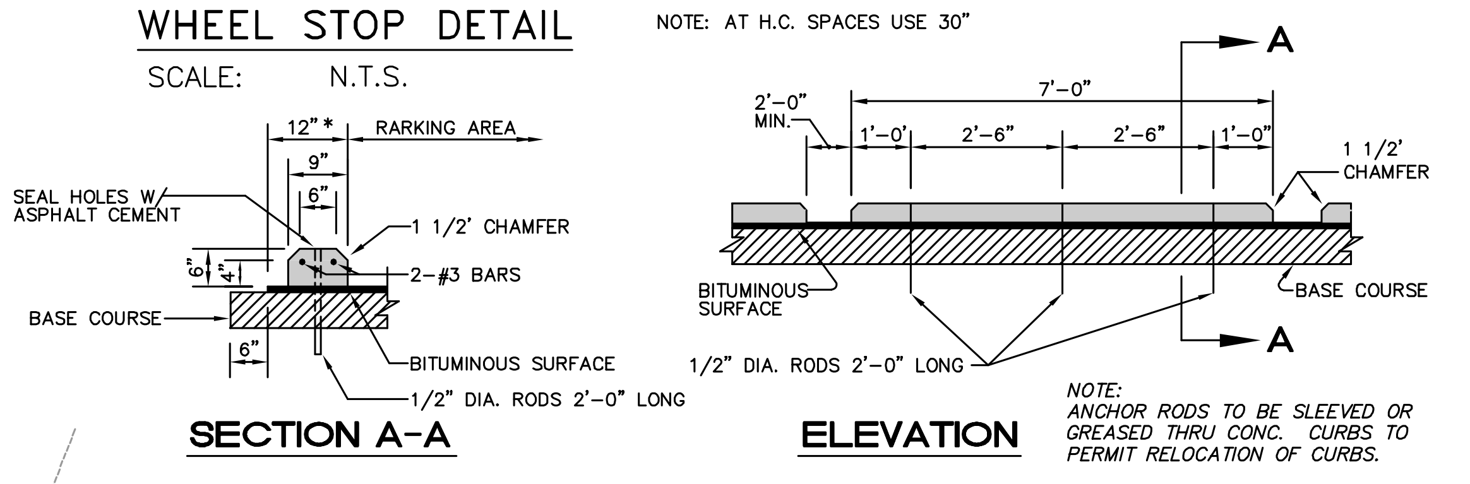


RETAINING WALL = ±1,850 SF
CONTRACTOR TO SUBMIT SHOP DRAWINGS/SEAL DESIGN ON WALL FROM PROFESSIONAL ENGINEER.
BOTTOM OF WALL = 183.5'
TOP OF WALL = 188.5'
MINIMUM HEIGHT = ±5.0'
MAXIMUM HEIGHT = ±5.0'
WALL TO BE ALLAN BLOCK CLASSIC
COLOR: CROSS CREEK
CONTRACTOR/DEVELOPER TO SUBMIT SAMPLE FOR APPROVAL PRIOR TO INSTALL.

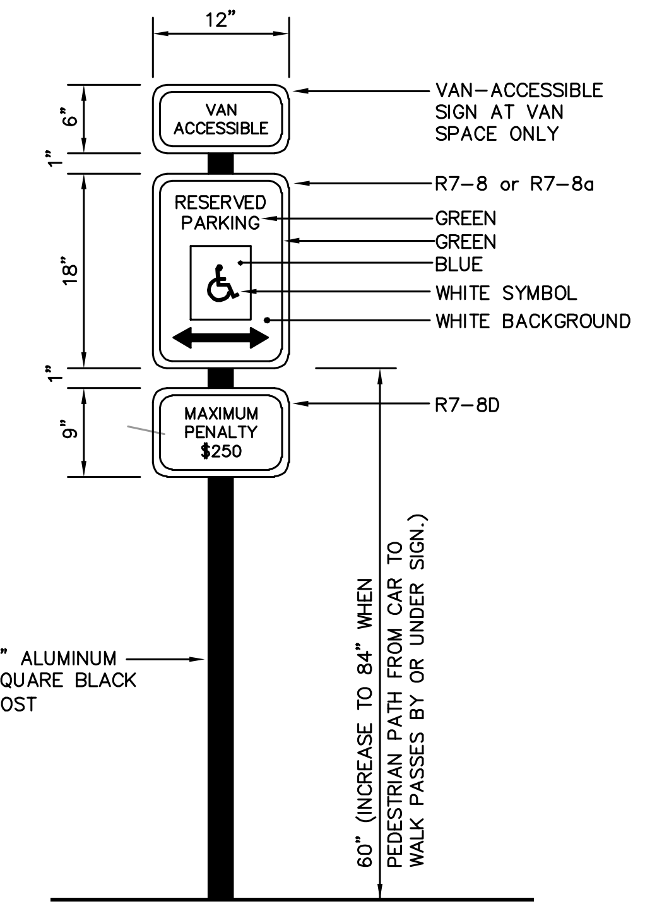
WHEEL STOP DETAIL

SCALE: N.T.S.

NOTE: AT H.C. SPACES USE 30"



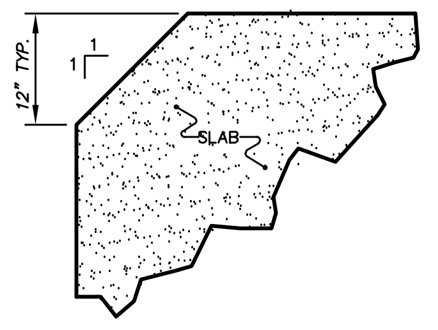
NOTE:
ANCHOR RODS TO BE SLEEVED OR GREASED THRU CONC. CURBS TO PERMIT RELOCATION OF CURBS.



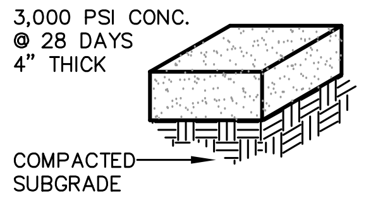
R7-8 HANDICAP SIGN

CONCRETE CORNER DETAIL

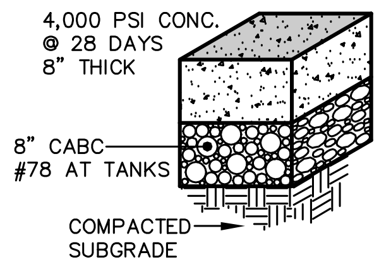
SCALE: N.T.S.



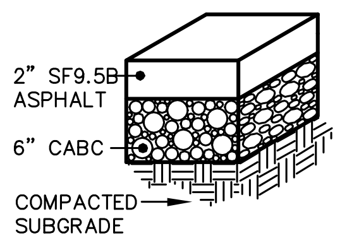
(SIDEWALKS)
LIGHT DUTY RIGID PAVEMENT
NOT TO SCALE



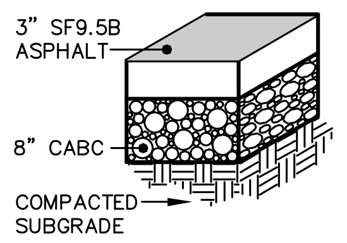
HEAVY DUTY RIGID PAVEMENT
NOT TO SCALE



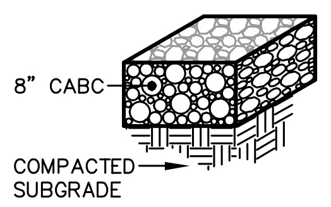
HEAVY DUTY FLEXIBLE PAVEMENT
NOT TO SCALE



HEAVY DUTY FLEXIBLE PAVEMENT
NOT TO SCALE



GRAVEL
NOT TO SCALE



SCALE: 1" = 30'
0 30 60 75 90

MANY ARE THE PLANS IN A PERSONS HEART, BUT IT IS THE LORD'S PURPOSE THAT PREVAILS. PROVERBS 19:21

STOCKS ENGINEERING
801 EAST WASHINGTON STREET
NASHVILLE, N.C. 27856
P.O. BOX 1108
PHONE: (252) 459-8196
WWW.STOCKSENGINEERING.COM

BLN-C-1874

CLAYTON GLASS/FLEX BUILDING - 24,000 SF
WILSONS MILLS, NORTH CAROLINA

SEAL 19843
J. MICHAEL STOCKS
J. Michael Stocks
10/24/24

SITE and UTILITY PLAN

REVISIONS	
FILE NO.	2024-089
HORZ. SCALE:	1"=30'
VERT. SCALE:	NONE

CE-02

BEFORE YOU DIG, CALL 811
NORTH CAROLINA ONE CALL CENTER
www.ncocc.org

Legend			
	Label	Quantity	Unit
▲	6" 45 DEGREE BEND	14	Count
●	6" CLEANOUT ROOF DRAIN	12	Count
	6" ROOF DRAIN LINE	366.71	ft
▲	6" WYE CONNECTION	8	Count
	15" CLASS IV STORM LINE	164.00	ft
✓	15" RCP FLARED END SECTION	1	Count
	15" RCP STORM LINE	540.72	ft
	18" RCP STORM LINE	88.85	ft
	24" RCP STORM LINE	10.67	ft
●	48" DIA STORM MH	3	Count
■	ASPHALT VALLEY SWALE	155	sf
✓	DRAIN INLET 2x3	7	Count
✓	OCS 2'-0" x 3'-0" BOX	1	Count
	RETAINING WALL	372.10	ft

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WILSONS MILLS, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 19843 ENGINEER J. MICHAEL STOCKS
J. Michael Stocks 10/24/24

DRAINAGE and GRADING PLAN

REVISIONS
FILE NO. 2024-089
HORZ. SCALE: 1"=30'
VERT. SCALE: NONE

CE-03