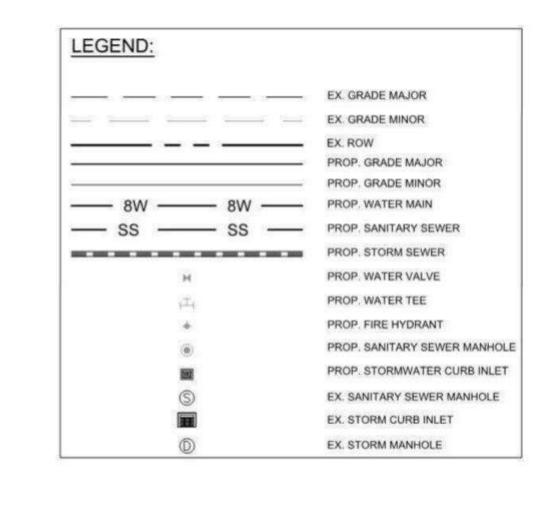
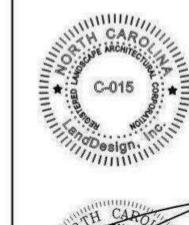


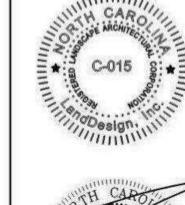
PROP. RETAINING WALL B

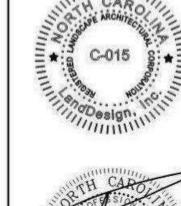
AMOS SMITH ROAD (SR#1186)





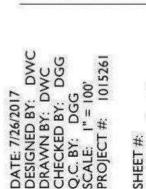
LandDesign





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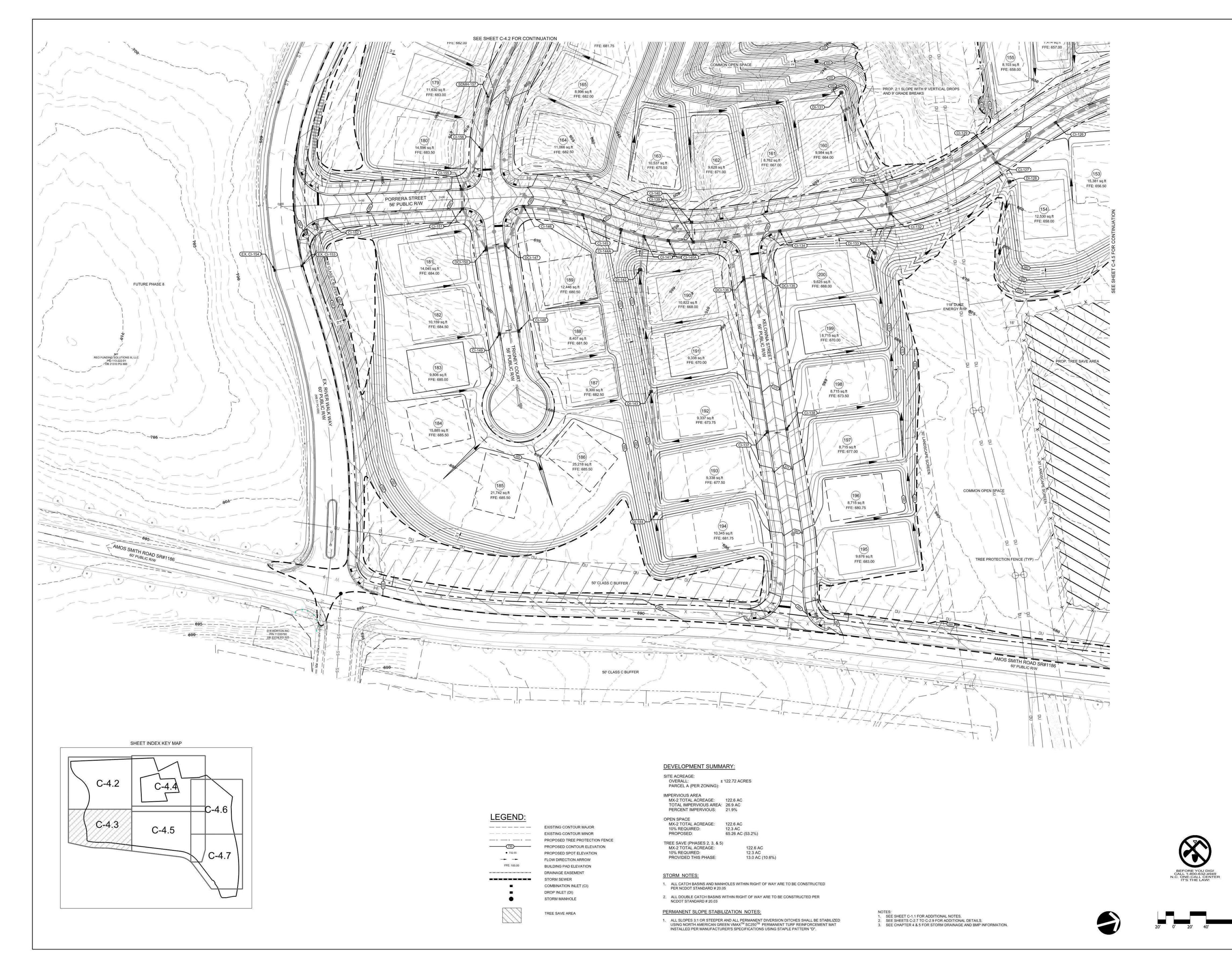






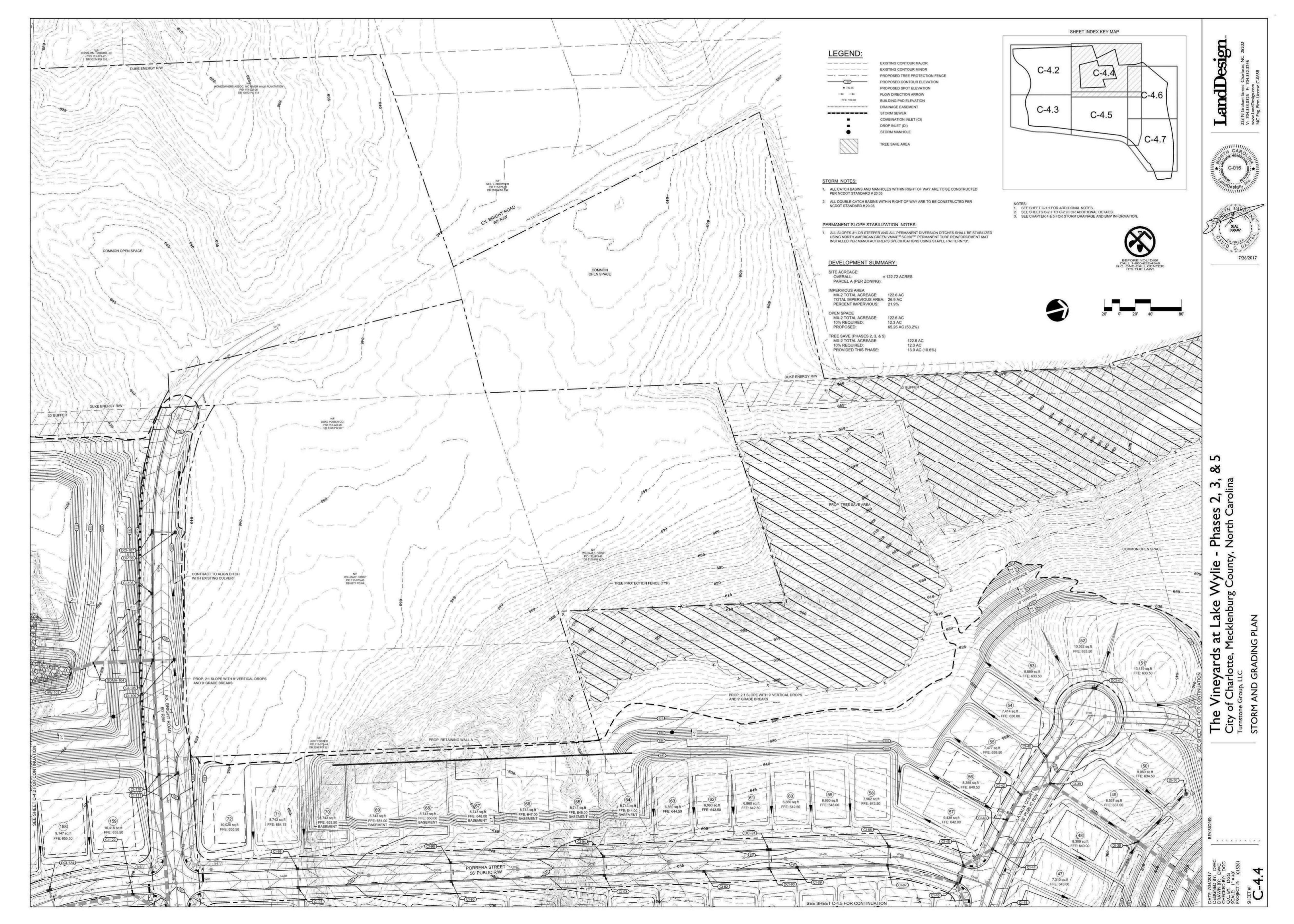
PROP. WALL "V" DITCH WALL SIDE SLOPE: 3:1 DEPTH: 2'

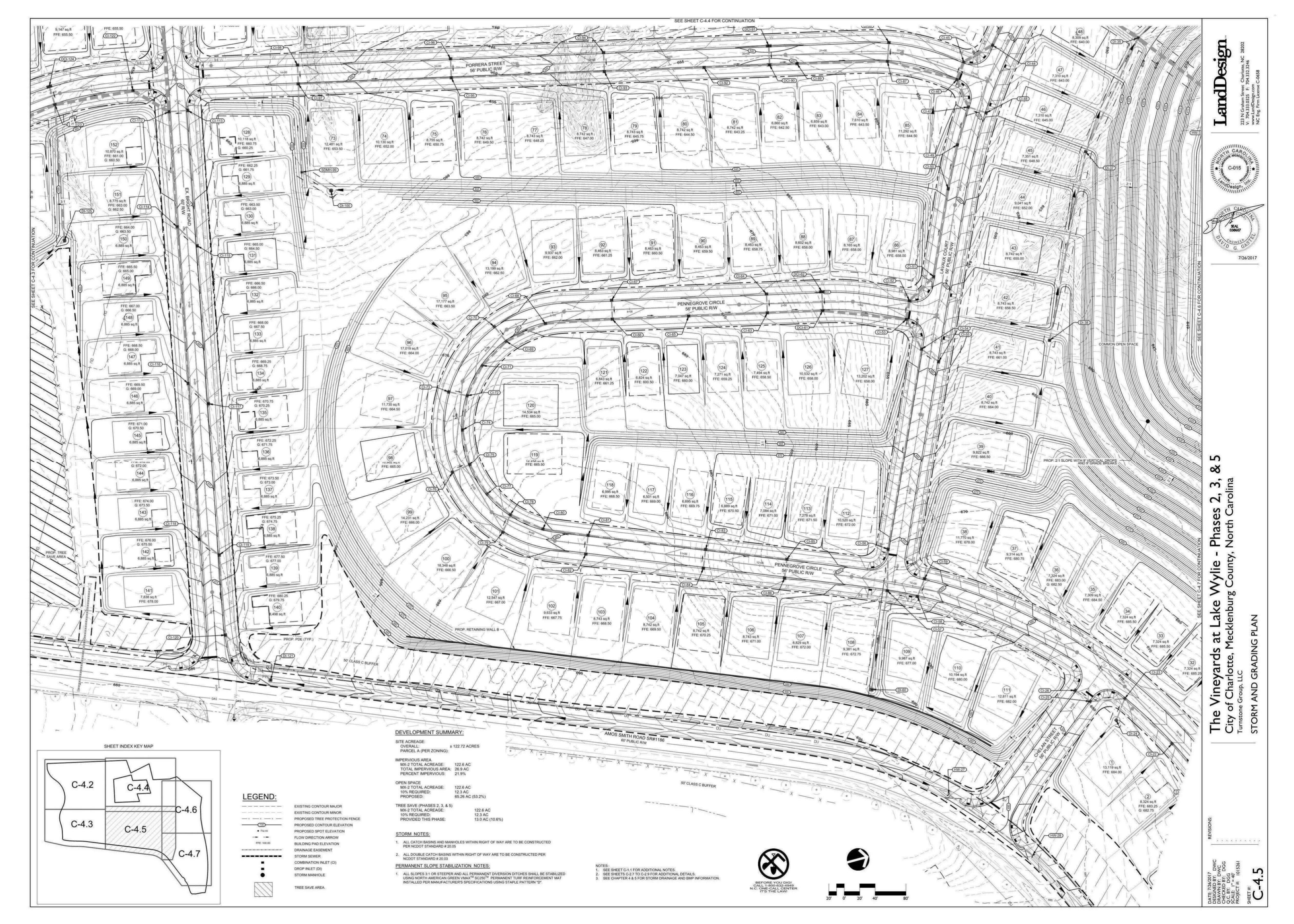




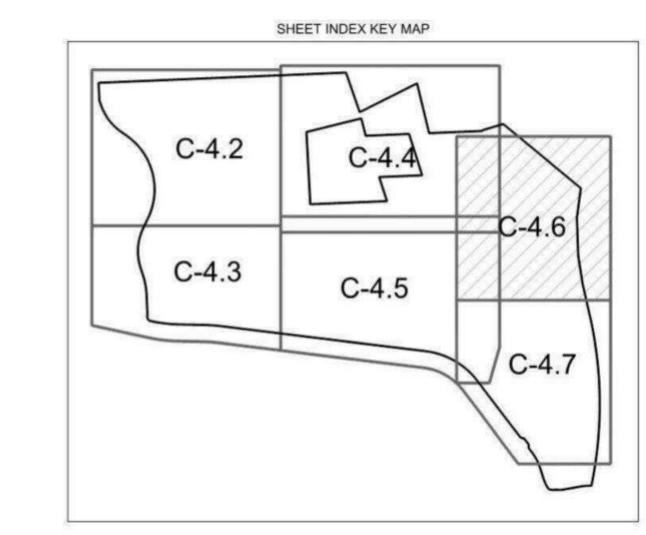
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LEGEND:

_____ EXISTING CONTOUR MAJOR EXISTING CONTOUR MINOR ____ PROPOSED TREE PROTECTION FENCE 730 PROPOSED CONTOUR ELEVATION • 732.55 PROPOSED SPOT ELEVATION - -FLOW DIRECTION ARROW FFE: 100.00 **BUILDING PAD ELEVATION** ****

DRAINAGE EASEMENT -----STORM SEWER COMBINATION INLET (CI) DROP INLET (DI) STORM MANHOLE

STORM NOTES:

MX-2 TOTAL ACREAGE: 122.6 AC 12.3 AC

65.26 AC (53.2%)

12.3 AC 13.0 AC (10.6%)

ALL CATCH BASINS AND MANHOLES WITHIN RIGHT OF WAY ARE TO BE CONSTRUCTED PER NCDOT STANDARD # 20.05

ALL DOUBLE CATCH BASINS WITHIN RIGHT OF WAY ARE TO BE CONSTRUCTED PER NCDOT STANDARD # 20.03

PERMANENT SLOPE STABILIZATION NOTES:

ALL SLOPES 3:1 OR STEEPER AND ALL PERMANENT DIVERSION DITCHES SHALL BE STABILIZED USING NORTH AMERICAN GREEN VMAX[™] SC250[™] PERMANENT TURF REINFORCEMENT MAT INSTALLED PER MANUFACTURER'S SPECIFICATIONS USING STAPLE PATTERN "D".

 SEE SHEET C-1.1 FOR ADDITIONAL NOTES.
 SEE SHEETS C-2.7 TO C-2.9 FOR ADDITIONAL DETAILS. SEE CHAPTER 4 & 5 FOR STORM DRAINAGE AND BMP INFORMATION.

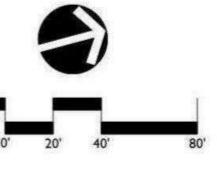
	HW-163 1	TO HW-1	64		
et Description					
tion Method	Manning Formula				
ve For	Normal Depth				
ut Data					
ighness Coefficient		0.013			
nnel Slope		0.02360	我很		
meter		3.00	R		
charge		8.60	fi ³ /s		
sults					
mal Depth		0.59	8		
v Area		0.98	ft ^a		
tied Perimeter		2.75	n		
raulic Radius		0.36	R		
Width		2.38	2		
ical Depth		0.93	ft		
cent Full		19.6	%		
ical Slope		0.00389	6/6		
only		8.80	ft/s		
odty Head		1.20	ft		
cific Energy		1.79	t		
ude Number		2.42			
dmum Discharge		110.22	ft*/s		
charge Full		102.46	ft%s		
pe Full		0.00017	nn.		
v Type	SuperCritical				
F Input Data				900	
wnstream Depth		0.00	n		
gth		0.00	裁		
nber Of Steps		0			
F Output Data					
dream Depth		0.00	n		
file Description					
Se Headloss		0.00	R		
rage End Depth Over Rise		0.00	%		
mal Depth Over Rise		19.59	%		
enstream Velocity		Infinity	ft/s		
10.552					

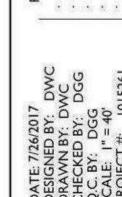
	Bentley Systems, Inc.	Haestad Methods Soldientilly	MonMaster VII (SEL	ECTaeries 1)	108.1	¥.
116 8:50:45 AM	27 Siemons Company Drive Suite 20	0 W Watertown, CT 96795 USA	+1-202-755-1666	Page	1	1

21/2016 8:50:45 AM 2	Bentley Systems, Inc. Hae 7 Siemons Company Drive Suite 200 W			eries 1) [08.11.01.03 Page 1 of ;
	HW-165	TO HW-1	66	
roject Description				
iction Method	Manning Formula			
olve For	Normal Depth			
put Data				
oughness Coefficient		0.013		
nannel Slope		0.01360	n/n	
ameter		1.50	*	
scharge		9.07	ff?/s	
esults				
ormal Depth		0.96	n	
ow Area		1.20	ft*	
etted Perimeter		2.78	n	
ydraulic Radius		0.43	n	
p Width		1,44	n	
itical Depth		1.17	n	
proent Full		64.0	%	
Nicel Slope		0.00829	n/n	
elocity		7.59	ft/s	
locity Head		0.90	n	
secific Energy		1.86	n	
oude Number		1.47		
aximum Discharge		13.18	ft ^{t/} s	
scharge Fult		12.25	ff?/s	
ope Full		0.00746	nn	
ow Type	SuperCritical			
VF Input Data				
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ingth		0.00	n	
umber Of Steps		0		
VF Output Data				
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ofile Headloss		0.00	ft	
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ormal Depth Over Rise		64.03		
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Bentley Systems, Inc. Haestad Methods Soldisontilip/Mose/Moster Viti (SELECToeries 1) [08.11.01.03]
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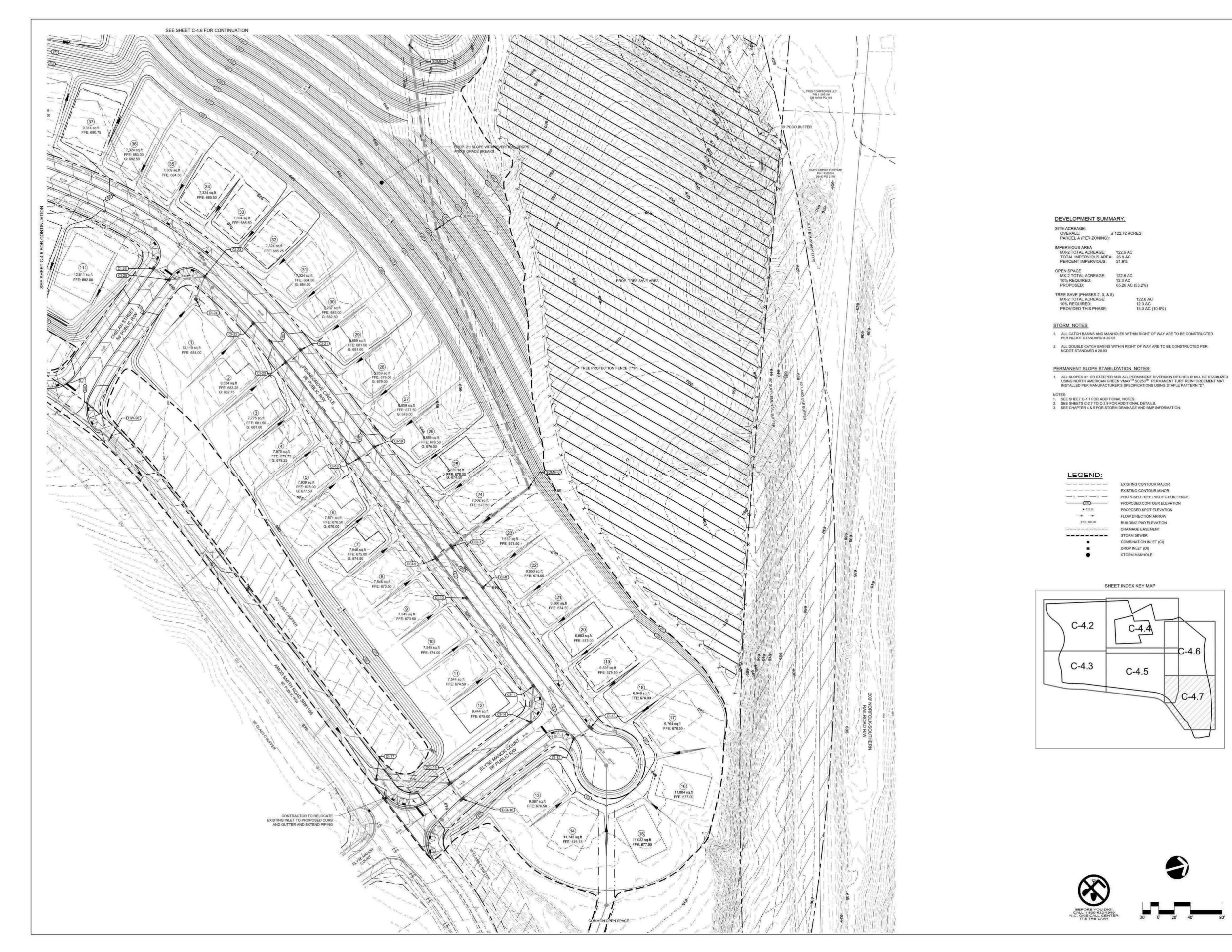






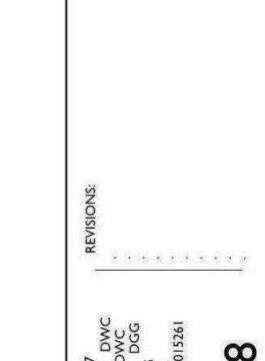
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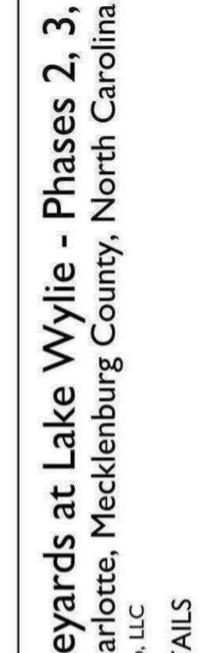




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Vineyards of Charlotte, №





CONCRETE PAVED DITCHES METHODS FOR PLACEMENT OF DROP NLETS IN CRASSED MEDIAN (LISING 1-6" CURB AND CUTTER) MEDIAN CURB FOR CATCH BASIN (FOR USE WITH 1'-6" CURB AND GUTTER) METHOD OF PLACEMENT OF DROP INLETS IN CONCRETE ISLANDS RIP RAP IN CHANNELS DRAINAGE DITCHES WITH CLASS "A" RIP RAP DRAINAGE DITCHES WITH CLASS "B" RIP RAP 310.01 1998 DRAWINGS CONCRETE FLARED END SECTION NOTE 1: FOR ALL STRUCTURES - NCDOT REQUIRES CLASS B CONCRETE (2500PS). THE CITY REQUIRES 3600 PSI CONCRETE STRENGTH @ 28 DAYS, 3600 PSI CONCRETE SHALL BE USED IN ALL CITY AND ETJ PROJECTS. NCDOT STANDARDS CITY OF CHARLOTTE APPROVED FOR USE IN THE CITY OF CHARLOTTE AND DEVELOPMENT STANDARDS STD. NO. REV. AND CHARLOTTE ETJ CHARLOTTE 20.00C 10 INCLUDES CHARLOTTE ETJ

OR ROUND GRATE COVER

CONCRETE JUNCTION BOX (WITH OPTIONAL MANHOLE) 12" THRU 66" PIPE

TRAFFIC BEARING DROP INLET FOR CAST IRON DOUBLE FRAME AND GRATES

TRAFFIC BEARING DROP INLET FOR STEEL (840.37) DOUBLE FRAME AND CRATES

TRAFFIC BEARING JUNCTION BOX FOR USE WITH PIPES 42" AND UNDER

BRICK JUNCTION BOX 12" THRU 66" PIPE

STEEL CRATE AND FRAME

BRICK MANHOLE 12" 36" PIPE

MANHOLE FRAME AND COVER

DRAINAGE STRUCTURE STEPS

CONCRETE PAVED DITCHES

PIPE COLLAR

SPRING BOX CONCRETE OR BRICK

840.45 PRECAST DRAINAGE STRUCTURE (SOLID AND WAFFLE WALL)

TRAFFIC BEARING PRECAST DRAINAGE STRUCTURE

PRECAST MANHOLE 4', 5' AND 6' DIAMETER 12" THRU 42" PIPE

PLAN VIEW

PRECAST MANHOLE WITH MASONRY BASE 12" THRU 42" PIPE

SPECIAL REQUIREMENTS AND NOTES NOTE 1; OPTIONAL MANHOLE IS REQUIRED

NOTE 1; OPTIONAL MANHOLE IS REQUIRED; AS MEASURED FROM BOTTOM OF

TOP SLAB - FOR JUNCTION BOX HEIGHT 0'-4'8" USE 8" THICK WALL,

FROM 4'8" HEIGHT TO 10" HEIGHT, USE 12" THICK WALL. IF PROPOSED

STRUCTURE EXCEEDS 12'-0" HEIGHT A SPECIAL DESIGN WILL BE REQUIRED

WAFFLE WALL IS NOT PERMITTED IN ROADWAY, PLANTING STRIPS, OR MEDIANS. ALL OPENINGS SHALL BE PRE-CAST

MINIMUM WEIGHT

2-4" DIA -1-11-3/8" DIA

- 2'-3/8" DIA.

SECTION A-A

3/4"

-1/2" RADIUS

NOT TO SCALE

20.05B 5

-SLAB TO BE MONOLITHIC

AND REINFORCING TO BE

NOT TO SCALE

5TD, NO. REV. 20.03 8

CONTINUOUS

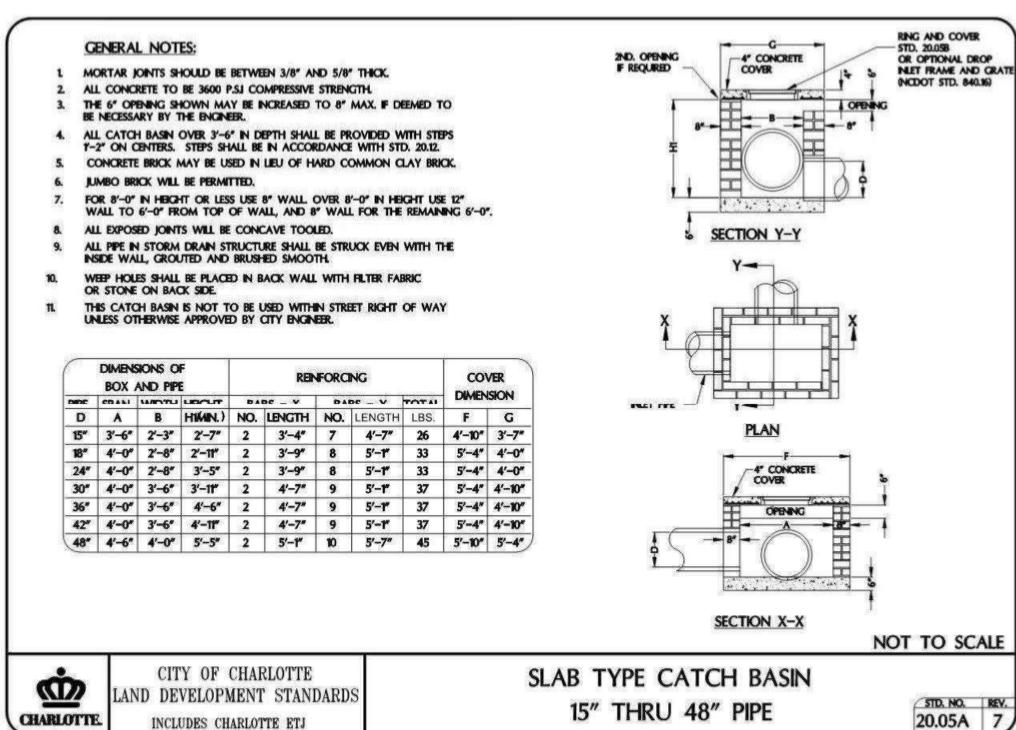
NOTE & OPTIONAL MANHOLE IS REQUIRED

NOT FOR USE IN PEDESTRIAN AREAS

NOT FOR USE IN PEDESTRIAN AREAS

SPECIAL REQUIREMENTS AND NOTES NOTES FOR REINFORCED CONCRETE ENDWALL STANDARD DRAWINGS NOTE 1 SEE CLDS 20.17 FOR SPLASH PAD 838.21 THRU 838.40 NOTE 1 SEE CLDS 20.17 FOR SPLASH PAD REINFORCED BRICK ENDWALL FOR SINGLE 54" PIPE 90' SKEW NOTE 1 SEE CLDS 20.77 FOR SPLASH PAD NOTE 1 SEE CLDS 20.77 FOR SPLASH PAD REINFORCED BRICK ENDWALL FOR DOUBLE & TRIPLE 54" PIPE 90'SKEW REINFORCED BRICK ENDWALL FOR SINGLE 60" PIPE 90' SKEW NOTE 1 SEE CLDS 20.17 FOR SPLASH PAD REINFORCED BRICK ENDWALL FOR DOUBLE & TRIPLE 60" PIPE 90' SKEW NOTE 1 SEE CLDS 20.17 FOR SPLASH PAI REINFORCED BRICK ENDWALL FOR SINGLE 66" PIPE 90' SKEW NOTE 1 SEE CLDS 20.17 FOR SPLASH PAD NOTE 1 SEE CLDS 20.17 FOR SPLASH PAD REINFORCED BRICK ENDWALL FOR DOUBLE & TRIPLE 66" PIPE 90" SKEW NOTE 1 SEE CLDS 20.17 FOR SPLASH PAD REINFORCED BRICK ENDWALL FOR SINGLE 72" PIPE 90' SKEW NOTE 1 SEE CLDS 20.17 FOR SPLASH PAD REINFORCED BRICK ENDWALL FOR DOUBLE & TRIPLE 72" PIPE 90' SKEW NOTES FOR REINFORCED BRICK ENDWALL STANDARD DRAWINGS 838.51 THRU 838.70 NOTE 1 SEE CLDS 20.17 FOR SPLASH PAD PRECAST CONCRETE ENDWALL FOR SINGLE 12" THRU 72" PIPE 90' SKEW CONCRETE BASE PAD FOR DRAINAGE STRUCTURES BRICK CATCH BASIN 15" THRU 54" PIPE CONCRETE CATCH BASIN 12" THRU 54" PIPE FRAME, GRATE BASIN 12" THRU 54" PIPE TYPE F AND G GRATES ARE OPTIONAL WITHIN THE CITY LIMITS CONCRETE OPEN THROAT CATCH BASIN 12" THRU 48" PIPE NOTE 1; OPENINGS PERMITTED IN 4 SIDES OUTSIDE OF STREET R/W MANHOLE RING AND COVER REQUIRED IN TOP SLAB SEE CLDS 20.05 A&B NOTE 1: OPENINGS PERMITTED IN 4 SIDES OUTSIDE OF STREET R/W BRICK OPEN THROAT CATCH BASIN 15" THRU 48" PIPE MANHOLE RING AND COVER REQUIRED IN TOP SLAB SEE CLDS 20.05 A&B CONCRETE DROP INLET 12" THRU 30" PIPE BRICK DROP INLET 12" THRU 30' PIPE DROP INLET FRAME AND CRATE FOR USE WITH DWGS. 840.14 & 840.15 CONCRETE GRATED DROP INLET TYPE "A" 12" THRU 72" PIPE CONCRETE CRATED DROP INLET TYPE "B" 12" THRU 36" PIPE CONCRETE GRATED DROP NLET TYPE "D" 12" THRU 36" PIPE NOT FOR USE IN PEDESTRIAN AREAS FRAMES AND WIDE SLOT FLAT GRATES NOT FOR USE IN PEDESTRIAN AREAS FRAMES AND WIDE SLOT SAG GRATES 840.22 FRAMES AND NARROW SLOT SAG CRATES ANCHORAGE FOR FRAMES BRICK OR CONCRETE BRICK GRATED DROP INLET TYPE "A" 12" THRU 72" PIPE BRICK CRATED DROP INLET TYPE "B" 12" THRU 36" PIPE BRICK GRATED DROP INLET TYPE "D" 12" THRU 36" PIPE 840.29 FRAMES AND NARROW SLOT FLAT CRATES 840.30 DRIVEWAY DROP INLET NOTE 1: FOR ALL STRUCTURES - NCDOT REQUIRES CLASS B CONCRETE (2500PSI). THE CITY REQUIRES 3600 PSI CONCRETE STRENGTH @ 28 DAYS, 3600 PSI

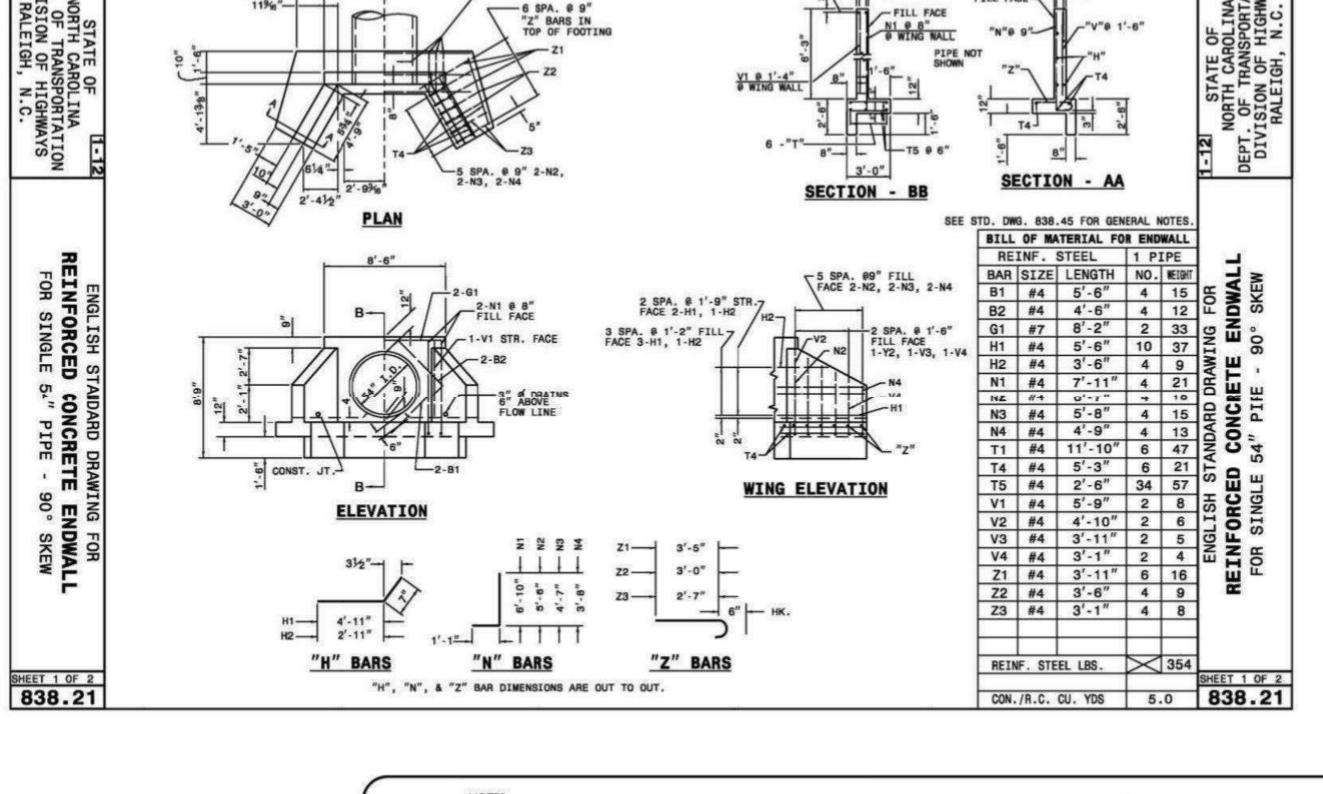
CHARLOTTE.	CITY OF CHARLOTTE LAND DEVELOPMENT STANDARDS INCLUDES CHARLOTTE ETJ	NCDOT STANDARDS APPROVED FOR USE IN THE CITY OF CHARLOTTE AND CHARLOTTE ETJ	STD. NO. 20.00B
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CHARLOTTE

INCLUDES CHARLOTTE ETJ

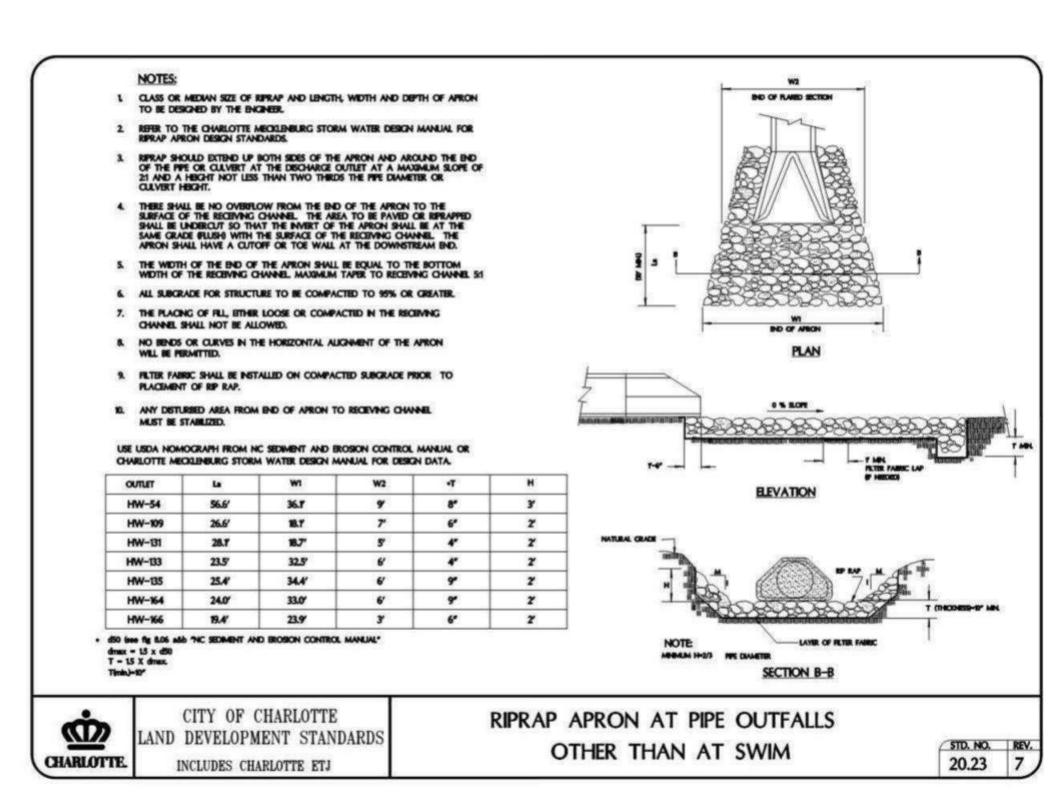
CHARLOTTE.	CITY OF CHARLOTTE AND DEVELOPMENT STANDARDS INCLUDES CHARLOTTE ETJ	MANHOLE RING AND COVER FOR SLAB TYPE CATCH BASIN
2. CONSTRUCT 3. ALL CONC 4. BASE SLAB 5. SEE CLOSM 6. PIPE SECTION PIPE D3. 7. ALL REINFO (NO LAPS,	TES: If STANDARD 840.01 FOR DETAILS BASED ON PIPE S IT TWO SINGLE BASINS PER INCOOT STANDARD WE RETE TO BE 3600 P.S.I COMPRESSIVE STRENGTH. ISHALL BE MONOLITHIC. ISTANDARDS #10.29 AND #10.30 FOR PLACEMENT ON D2 CONNECTING CATCH BASINS SHALL HAVE A RICING STEEL SHOWN ON INCOOT STANDARDS IS USED AS A SINGLE CONTINUOUS BAR IN THE SLAI ES SHALL BE PLACED IN BACK WALL WITH FILTER	OF CATCH BASIN. A MINIMUM DIAMETER SAME AS OF OUTLET TO BE PROVIDED AS CONTINUOUS MEMBERS. B)
Y 4	NLET S	OUTLET & PLAN
	PLAN	
į	NET SLOPE SECTION Y-Y 1	SECTION I-J 30" TO 36" PIPE
•	CITY OF CHARLOTTE	BRICK DOUBLE CATCH BASIN
HARLOTTE.	AND DEVELOPMENT STANDARDS INCLUDES CHARLOTTE ETJ	15" THRU 36" PIPE

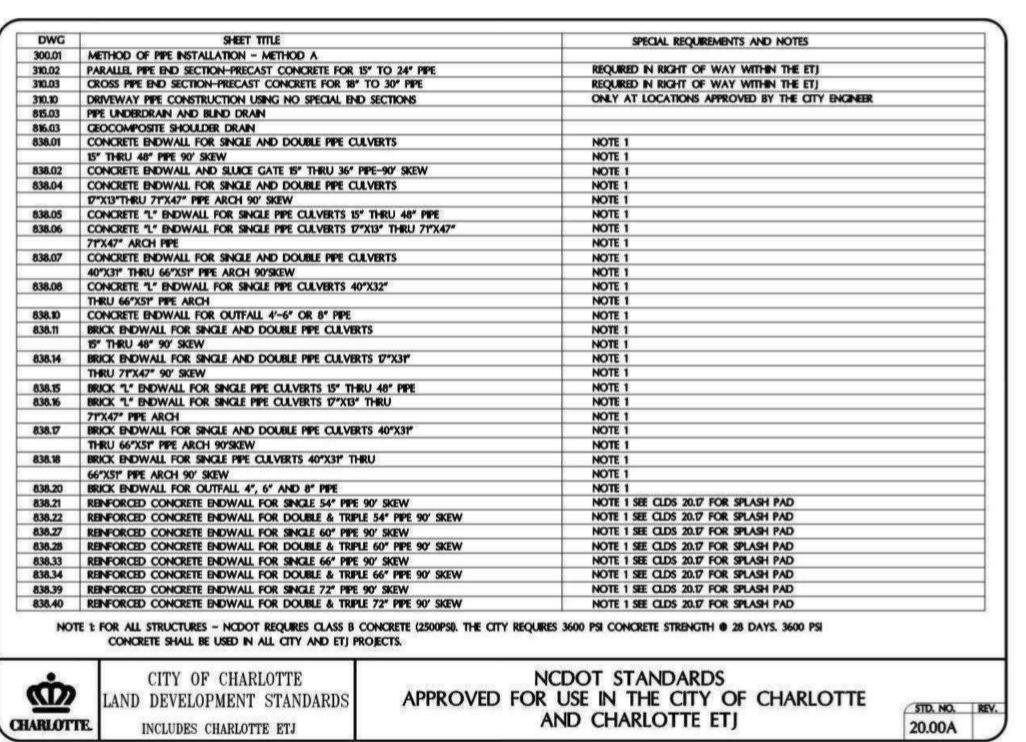


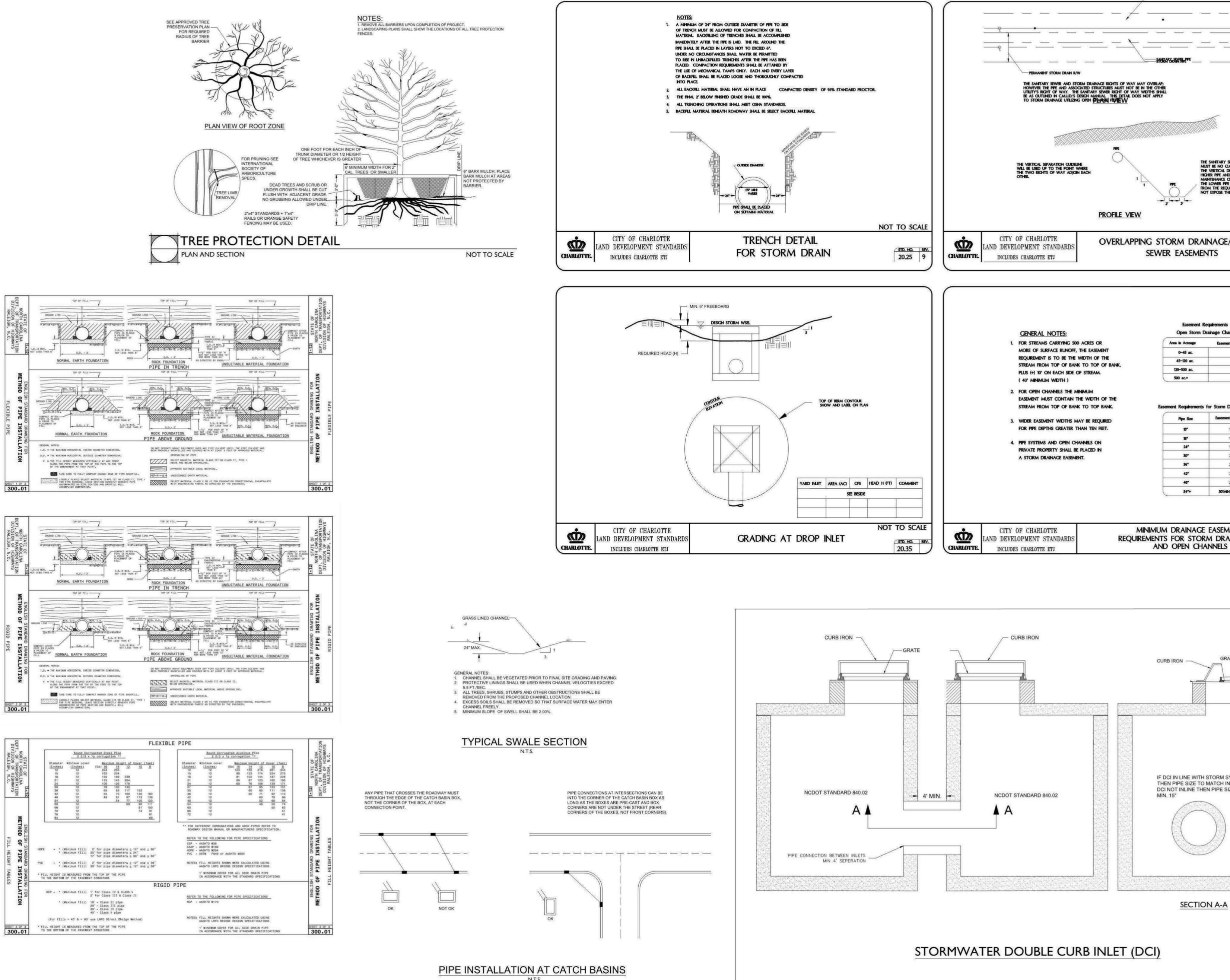
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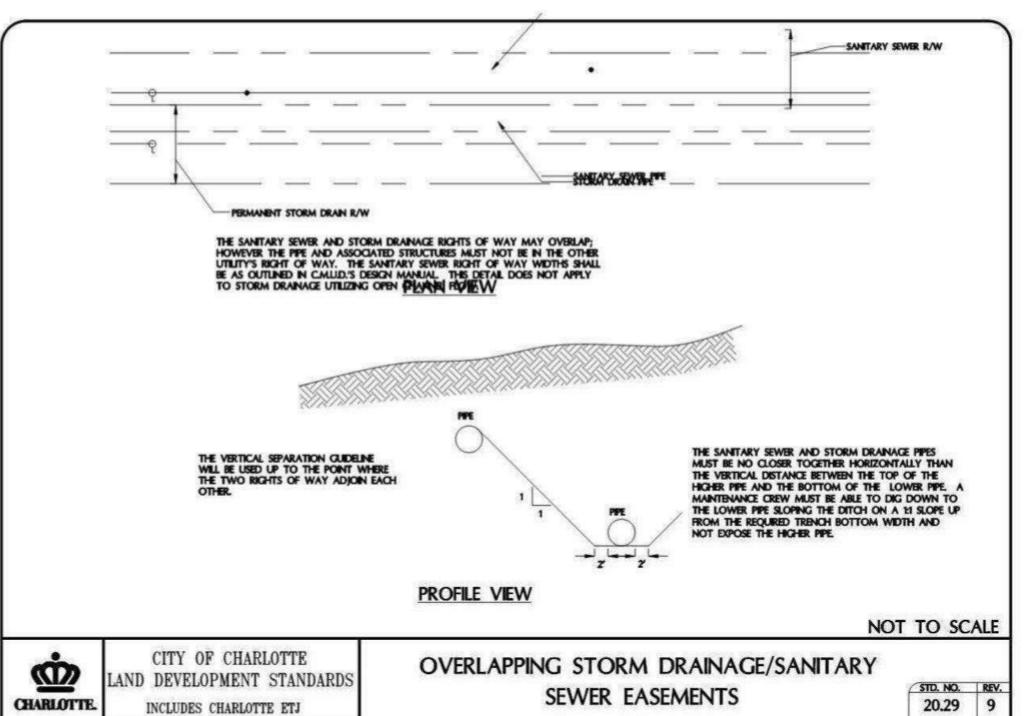
T5 @ 6" TOP & BOTTOM -

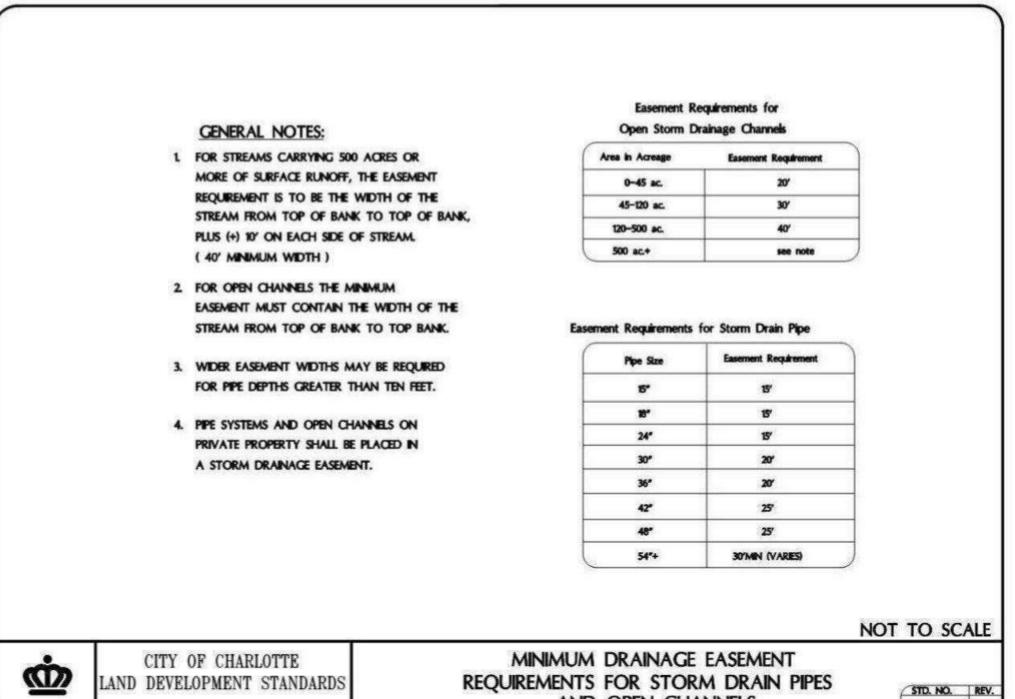
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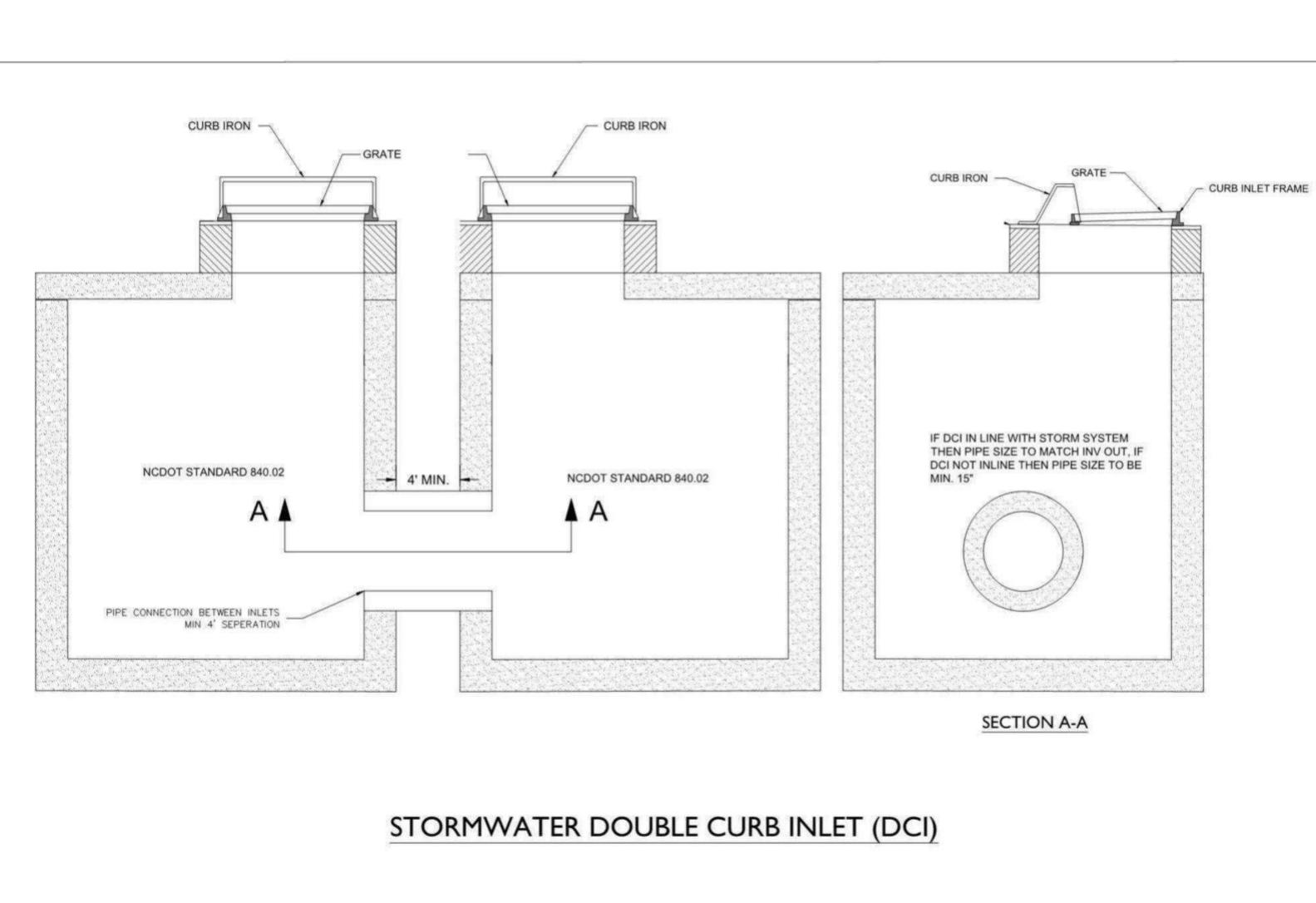














20.30

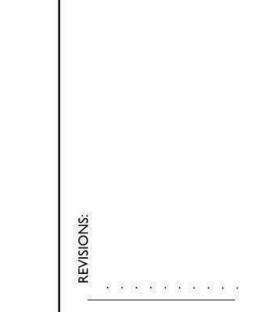
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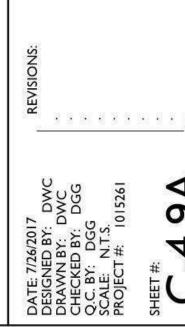
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eyards Phase 2,3, and :1015261 G	d 5			ELEVATIONS			DATE: 8 REVISIONS:	/4/2017
DOT STRUCTURE # 838.80 BMP Detail	STRUCTURE I HW-1 RISER-2	0.00 0.00	C Value N/A N/A	CL ELEV, N/A N/A	CL-LIP (ft) N/A N/A	CROWN (%) N/A N/A	RIM ELEV. N/A N/A	LONG. SLOPE (% N/A N/A
838.80 840.52 840.52	HW-3 SDMH-4 SDMH-5	0.00 0.00 0.00 0.00	N/A N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A 607.00 652.00	N/A N/A N/A
840.52	SDMH-6	0.00	N/A	N/A	N/A	N/A	673.14	N/A
840.02	DCI-7	0.66	0.80	671.02	12.3	3.125%	670.62	LP
840.02	CI-8	0.55	0.80	671.52	12.3	3.125%	671.12	1.00
840.02	DCI-9	1.05	0.50	671.02	12.3	3.125%	670.62	LP
840.02	CI-10	0.43	0.60	671.49	12.3	3.125%	671.09	1.00
840.02	CI-11	0.01	0.80	672,88	12,3	3.125%	672.48	1.00
840.02	CI-12	0.54	0.60	673,71	12,3	3.125%	673.31	1.00
840.02	CI-13	0.50	0.80	673,73	12,3	3.125%	673.33	1.00
840.02	CI-14	0.04	0.80	672.66	12,3	3.125%	672.26	1.00
840.02	DCI-15	0.33	0.60	671.43	12,3	3.125%	671.03	LP
840.02	DCI-16	0.30	0.60	671.42	12,3	3.125%	671.02	LP
840.04	DI-17	0.89	0.45	N/A	N/A	N/A	673.50	N/A
840.02	CI-18	0.81	0.40	674.54	12.3	3.125%	674.14	3.13
840.02	CI-19	0.40	0.80	674.54	12.3	3.125%	674.14	3.13
840.02	CI-20	0.26	0.60	679,29	12.3	3.125%	678.89	3.13
840.02	CI-21	0.42	0.80	679,32	12.3	3.125%	678.92	3.13
840.02	CI-22	0.05	0.80	676,06	12.3	3.125%	675.66	3.13
840.02	CI-23	0.04	0.80	683.13	12.3	3.125%	682.73	0.70
840.04	DI-24	0.18	0.40	N/A	N/A	N/A	682.00	N/A
840.02	CI-25	0.12	0.80	683.28	12.3	3.125%	682.88	2.44
840.02	CI-26	0.17	0.75	683,28	12.3	3.125%	682,88	2.44
838.80	HW-27	0.26	N/A	N/A	N/A	N/A	N/A	N/A
838.80	HW-28	0.00	N/A	N/A	N/A	N/A	N/A	N/A
838.80	HW-29	9.84	N/A	N/A	N/A	N/A	N/A	N/A
838.80	HW-30	0.00	N/A	N/A	N/A	N/A	N/A	N/A
838.80	HW-31	1.54	N/A	N/A	N/A	N/A	N/A	N/A
838.80	HW-32	0.00	N/A	N/A	N/A	N/A	N/A	N/A
838.80	HW-33	0.00	N/A	N/A	N/A	N/A	N/A	N/A
840.52	SDMH-34	0.00	N/A	N/A	N/A	N/A	607,00	N/A
840.04	DI-35	0.53	0.65	N/A	N/A	N/A	635,00	N/A
840.04	DI-36	0.17	0.65	N/A	N/A	N/A	632,00	N/A
840.04	DI-37	0.65	0.65	N/A	N/A	N/A	645.00	N/A
840.04	DI-38	0.86	0.55	N/A	N/A	N/A	658.00	N/A
840.02	CI-39	0.21	0.65	636.15	12.3	3.125%	635.75	4.46
840.02	CI-40	0.15	0.80	634.96	12.3	3.125%	634.56	4.46
840.02	DCI-41	0.72	0.80	630.93	12.3	3.125%	630.53	LP
840.02	CI-42	0.04	0.80	637.59	12.3	3.125%	637.19	4.46
840.02	CI-43	0.04	0.70	639.21	12.3	3.125%	638.81	4.46
840.02	CI-44	0.04	0.80	641.08	12.3	3.125%	640.68	4.46
840.02	CI-45	0.00	0.00	642.48	12.3	3.125%	642.08	1.00
840.02	CI-46	0.03	0.80	642.49	12.3	3.125%	642.09	1,00
840.02	CI-47	0.03	0.80	644.85	12.3	3.125%	644.45	4,46
840.02	CI-48	0.37	0.65	644.85	12.3	3.125%	644.45	4,46
840.02 840.02 840.02	CI-49 CI-50 CI-51	0.05 0.15 0.04	0.80 0.70 0.80	647.08 649.63 654.78	12.3 12.3 12.3	3.125% 3.125% 3.125% 3.125%	646.68 649.23 654.38	4.46 4.46 4.46
840.02	CI-52	0.00	0.00	656,30	12.3	3.125%	655,90	1.00
840.02	CI-53	0.04	0.80	656,30	12.3	3.125%	655,90	1.00
840.02 840.02 840.02	CI-54 CI-55 CI-56	0.28 0.38 0.03	0.70 0.60 0.80	659.56 670.82	12.3 12.3 12.3	3.125% 3.125% 3.125%	658.61 659.16 670.42	4.46 4.46 4.46
840.02	CI-57	0.05	0.60	672.31	12.3	3.125%	671.91	4.09
840.02	CI-58	0.28	0.65	673.97	12.3	3.125%	673.57	4.09
840.02	CI-59	0.54	0.80	674.13	12.3	3.125%	673.73	4.09
840.04	DI-60	0.94	0,45	N/A	N/A	N/A	671.00	N/A
840.02	DCI-61	0.95	0,50	655,40	12.3	3.125%	655.00	LP
840.02	DCI-62	0.51	0,80	655,40	12.3	3.125%	655.00	LP
840.02	CI-63	0.52	0.50	655.96	12.3	3.125%	655,56	1.23
840.02	CI-64	0.54	0.80	655.96	12.3	3.125%	655,56	1.29
840.02	CI-65	0.48	0.50	656.98	12.3	3.125%	656,58	1.29
840.02	CI-66	0.43	0.50	658.57	12.3	3.125%	658.17	1.29
840.02	CI-67	0.66	0.70	658.56	12.3	3.125%	658.16	1.29
840.02	CI-68	0.08	0.50	659.72	12.3	3.125%	659.32	1.29
840.02	CI-69	0.06	0.80	660.51	12.3	3.125%	660.11	1.29
840.02	CI-70	0.58	0.60	660.53	12.3	3.125%	660.13	1.29
840.02	CI-71	0.06	0.60	661.14	12.3	3.125%	660.74	1.29
840.02	CI-72	0.16	0.80	661.75	12.3	3.125%	661.35	1.29
840.02	CI-73	0.68	0.50	661.78	12.3	3.125%	661.38	1.29
840.02	CI-74	0.07	0.60	662.38	12.3	3.125%	661.98	1.29
840.02	CI-75	0.07	0.80	663.06	12.3	3.125%	662.66	1.29
840.02	CI-76	0.76	0.40	663.07	12.3	3.125%	662.67	1.29
840.02	CI-77	0.06	0.60	663.69	12.3	3.125%	663.29	1.29
840.02	CI-78	0.09	0.70	664.26	12.3	3.125%	663.86	1.29
840.02	CI-79	0.61	0.50	664.31	12.3	3.125%	663.91	1.29
840.02	CI-80	0.07	0.60	664.91	12.3	3.125%	664.51	1.29
840.02	CI-81	0.40	0.80	665.70	12.3	3.125%	665.30	1.29
840.02	CI-82	0.62	0.50	665.70	12.3	3.125%	665.30	1.29
840.02	CI-83	0.27	0.80	667.68	12.3	3.125%	667.28	1.29
840.02	CI-84	0.64	0.40	667.68	12.3	3.125%	667.28	1.29
840.02	CI-85	0.19	0.80	669.05	12.3	3.125%	668.65	1.29
840.02	CI-86	0.39	0,50	669.05	12.3	3.125%	668,65	1.29
840.02	CI-87	0.27	0,50	641.51	12.3	3.125%	641,11	1.00
840.02	CI-88	0.08	0,75	641.51	12.3	3.125%	641,11	1.00
840.02	CI-89	0.53	0.50	640.32	12.3	3.125%	639.92	1.00
840.02	DCI-90	0.76	0.50	640.13	12.3	3.125%	639.73	LP
840.02	DCI-91	0.90	0.80	640.13	12.3	3.125%	639.73	LP
840.02	CI-92	0.60	0.50	641.15	12.3	3.125%	640.75	1.98
840.02	CI-93	0.87	0.50	643.71	12.3	3.125%	643.31	1.98
840.02	CI-94	0.22	0.65	643.71	12.3	3.125%	643.31	1.98
840.02	CI-95	0.82	0,50	647.64	12.3	3.125%	647.24	1,98
840.02	CI-96	0.33	0,65	647.64	12.3	3.125%	647.24	1.98
840.02	CI-97	0.22	0.70	651.57	12.3	3.125%	651.17	1.98
840.02	CI-98	0.21	0.80	651.57	12.3	3.125%	651.17	1.98
840.52	SDMH-99	0.00	N/A	N/A	N/A	N/A	656.71	N/A
840.04	DI-100	0.49	0.25	N/A	N/A	N/A	653.00	N/A
838.80	HW-101	0.00	N/A	N/A	N/A	N/A	N/A	N/A
BMP Detail	RISER-102	0.00	N/A	N/A	N/A	N/A	N/A	N/A
838.80	HW-103	0.00	N/A	N/A	N/A	N/A	N/A	N/A
840.52	SDMH-104	0.00	N/A	N/A	N/A	N/A	626,00	N/A
840.02	CI-105	0.14	0.80	641.63	12.3	3.125%	641.23	5.40
840.02	CI-106	0.06	0.80	637.18	12,3	3.125%	636,78	3.97
840.02	DCI-107	0.23	0.80	635.61	12,3	3.125%	635,21	LP
840.04	DI-108	1.65	0.30	N/A	N/A	N/A	634,00	N/A
840.04	DI-109	0.45	0.35	N/A	N/A	N/A	639,80	N/A
840.02	CI-110	0.13	0.70	648.95	12.3	3.125%	648,55	4.12
840.02	CI-111	0.15	0.70	648.94	12.3	3.125%	648,54	4.12
840.02	CI-112	0.37	0.80	656.42	12.3	3.125%	656.02	3.73
840.02	CI-113	0.50	0.75	656.42	12.3	3.125%	656.02	3.73
840.02	CI-114	0.54	0.80	661.00	12.3	3.125%	660.60	2.72
840.02	CI-115	0.68	0.70	661.71	12.3	3.125%	661.31	2.72
840.02	CI-116	0.63	0.80	666.52	12.3	3.125%	666.12	2.72
840.02	CI-117	0.72	0.70	667.28	12.3	3.125%	666.88	2.72
840.02 840.02 840.02	CI-118 CI-119 CI-120	0.17 0.65 0.07	0.80 0.50 0.80	672.47 673.46 679.12	12.3 12.3 12.3	3.125% 3.125% 3.125% 3.125%	672.07 673.06 678.72	4.18 4.79 5.00
840.04	DI-121	0.58	0.55	N/A	N/A	N/A	681.00	N/A
840.02	CI-122	0.09	0.80	653.87	12.3	3.125%	653.47	1.27
840.02	DCI-123	0.78	0.55	652.71	12.3	3.125%	652.31	LP
840.02 840.02 840.04 840.02	DCI-124 DI-125 CI-126	0.78 0.81 4.05 0.10	0.80 0.25 0.80	652.71 652.71 N/A 654.40	12.3 N/A 12.3	3.125% 3.125% N/A 3.125%	652.31 659.00 654.00	LP LP N/A 2.13
840.02	CI-126	0.10	0.80	654.40	12.3	3.125%	654.00	2.13
840.02	CI-127	0.20	0.55	656.30	12.3	3.125%	655.90	2.13
840.04	DI-128	0.68	0.25	N/A	N/A	N/A	656.00	N/A
840.02	CI-129	0.11	0.70	656.30	12.3	3.125%	655.90	2.13
840.02	CI-130	0,29	0,65	659,34	12,3	3.125%	658,94	2.13
840.04	DI-131	0,74	0,60	N/A	N/A	N/A	661,00	N/A
840.02	CI-132	0.19	0,70	659,34	12.3	3.125%	658,94	2.13
840.04	DI-133	1.09	0,60	N/A	N/A	N/A	665,00	N/A
840.02	CI-134	0.04	0,80	664,46	12.3	3.125%	664,06	5.00
840.02	DCI-135	0.27	0.65	665.74	12.3	3.125%	665.34	LP
840.02	DCI-136	0.33	0.70	665.74	12.3	3.125%	665.34	LP
840.02	CI-137	0.30	0.65	672.83	12.3	3.125%	672.43	5.00
840.02	CI-138	0.26	0.70	672.83	12.3	3.125%	672.43	5.00
840.02	CI-139	0.02	0.80	669.79	12.3	3.125%	669.39	5.00
840.02	CI-140	0.30	0.70	669.90	12.3	3.125%	669.50	5.00
840.02	CI-140A	0.02	0.80	671.26	12.3	3.125%	670.86	5.00
840.02	CI-141	0.06	0.88	672.73	12.3	3.125%	672.33	5.00
840.04	DI-142	0.89	0.60	N/A	N/A	N/A	665.00	N/A
840.04	DI-143	0.68	0,50	N/A	N/A	N/A	670.00	N/A
840.04	DI-144	1.43	0,40	N/A	N/A	N/A	678.00	N/A
840.02	CI-144A	0.13	0,50	674.15	12.3	3.125%	673.75	5.00
840.02	CI-145	0.07	0.60	676.72	12.3	3.125%	676.32	5.00
840.02	CI-146	0.03	0.80	680.63	12.3	3.125%	680.23	5.00
840.02	DCI-147	0.09	0.80	681.46	12.3	3.125%	681.06	LP
840.02 840.02	CI-148 CI-149	0.09 0.51 0.89 0.89	0.80 0.65 0.40 0.40	682.32 682.32	12.3 12.3	3.125% 3.125%	681.92 681.92	1.00 1.00 LP
840.02 840.02 840.02	DCI-150 CI-151 CI-152	0.13 0.04	0,80 0,80	681.46 684,45 693.43	12.3 12.3 12.3	3.125% 3.125% 3.125%	681.06 684.05 693.03	5.00 5.00
840.45	EX. CI-153	0.13	0.75	696.39	12.3	3.125%	695.99	1.57
840.45	EX. CI-154	0.76	0.30	696.50	12.3	3.125%	696.10	1.57
840.02	CI-155	0.17	0.80	684.45	12.3	3.125%	684.05	5.00
840.02	CI-156	0.06	0.80	681.37	12.3	3.125%	680,97	1.75
840.52	SDMH-157	0.00	N/A	N/A	N/A	N/A	680,41	N/A
840.02	DCI-158	1.56	0.40	679.21	12.3	3.125%	678,81	LP
840.02	DCI-159	0.67	0.80	679.21	12.3	3.125%	678.81	LP
840.52	SDMH-160	0.00	N/A	N/A	N/A	N/A	689.85	N/A
840.45	EX. CI-161	0.28	0.75	689.42	12.3	3.125%	689.02	1.50
840.45 840.02	EX. CI-162 CI-163	1.43 0.01 1.25	0.35 0.60	689.10 679.90	12.3 12.3	3.125% 3.125%	688.70 679.50	1.50 0.50

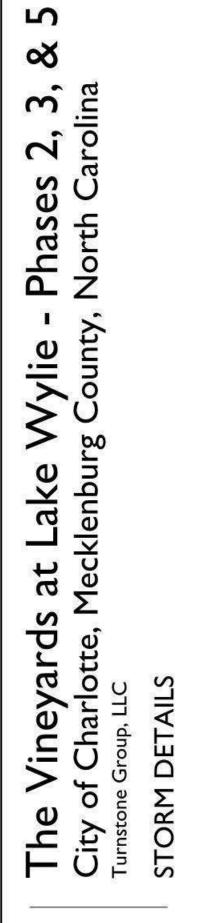
GG	15214										
	gle Curi Oouble C	b Inlet Curb Inlet				44.78.74	THE PERSON	Moreon -	111-00-00-0		
In	Trans	Runoff Coe Drainage		3.125% Varies Surface	O (cfs)	Rainfal n =	intensity 0.016		in/hr e curb and gu	tter Byr	1955
Type CI	No.	Area (ac)	C 0.60	Sub. 1.30		Slope (%) 1.00	K 19.0	Spread 6.04	Intercept 1.18	Q (cfs) 0.12	To Inle
DCI	16	0.30	0.60	0.72	0.84	LP	LP	2.78	0.84	0,00	LP
CI DCI	14 15	0.04	0.80	0.13 0.79	0.13	1.00 LP	19.0 LP	2.53	0.13 0.79	0.00	16 LP
CI	8	0.55	0.80	1.76	1.76	1.00	19.0	6.77	1.43	0.33	7
CI	10	0.43	0.60	1.03	1.37	1.00	19.0	6.16	1.22	0.15	9
CI	25 23	0.12	0.80	0.38	0.38	2.44 0.70	23.5 9.0	3,24	0.38	0.00	23
CI CI	23 22 20	0.05	0.80 0.80 0.60	0.13 0.16 0.62	0.13 0.16 0.62	3.13	26.0 26.0	2.71 2.22 3.71	0.13 0.16 0.62	0.00 0.00 0.00	22 20 18
CI	18	0.81	0.40	1.30	1.30	3.13 LP	26.0 LP	4,87 5,63	1.13	0.17	9 LP
CI	21	0.42	0.80	1.34	1.34	3.13	26.0	4.94	1.15	0.19	19
CI DCI	19 7	0.40 0.66	0.80	1,28 2,11	1.47 2.69	3.13 LP	26.0 LP	5,11 6,05	1.22 2.69	0.25	7 LP
CI	26	0.17	0.75	0.51	0.51	2.44	23.5	3.60	0.51	0.00	58
CI CI	58 57	0.28	0.65 0.60	0.73 0.12	0.73	4.09 4.09	29.0 29.0	3.73 1.90	0.73 0.12	0.00	57 86
CI	86 84	0.39	0.50	0.78 1.02	1.02	1.29 1.29	19,0 19,0	5.27	0.78 0.94	0.00	84 82
CI	82 79	0.62	0.50	1.24	1.32	1.29	19.0	5.80	1.10	0.22	79 76
CI CI	76 73 70	0.76 0.68 0.58	0.40 0.50 0.60	1.22 1.36 1.39	1.49 1.66 1.78	1.29 1.29 1.29	19.0 19.0	6,07 6,32 6,49	1.19 1.27 1.33	0.30 0.39 0.46	73 70 67
CI	67 64	0.66	0.70	1.85	2.30	1.29 1.29	19.0 19.0	7.14	1.56	0.74 0.84	64
DCI	62	0.51	0.80	1.63	2.47	LP	LP	5.72	2.47	0.00	LP
CI CI	85 83	0.19 0.27	0.80	0,61 0,86	0.61	1.29 1.29	19.0 19.0	4.33 4.94	0.61 0.84	0.00	83 81
CI CI	81 80	0.40	0.80	1.28 0.17	1.30	1.29	19.0 19.0	5.76 3.62	1.09 0.38	0.21	80 78
CI CI	78 77	0.09 0.06	0.70 0.60	0.25 0.14	0,25 0,14	1.29 1.29	19.0 19.0	3.11 2.52	0.25 0.14	0.00	77 75
CI	75 74	0.07	0.80	0.22	0.22	1.29	19.0 19.0	2.98	0.22	0.00	74 72
CI	72 71	0.16	0.80	0.51	0.51	1.29	19,0	4.06 2.52	0,51 0.14	0.00	71 69
CI CI	69 68	0.06	0.80	0.19 0.16	0.19	1.29	19.0 19.0	2.81	0.19 0.16	0.00	68 66
CI CI	66 65 63	0.43 0.48 0.52	0.50 0.50 0.50	0.86 0.96 1.04	0.86 0.98 1.11	1.29 1.29 1.23	19.0 19.0	5.18 5.47	0.84 0.91 1.00	0.02 0.07 0.11	65 63 61
CI	56	0.52	0.50	0.10	0.10	4.46	29.0	1.72	0.10	0.00	54
CI	54	0.28	0.70	0.78	0.78	4.46 1.00	29.0 19.0	3.78	0.78	0.00	53
DCI	61	0.95	0.50	1.90	2.01	LP	LP	4.97	2.01	.0.00	LP
CI CI	59 55	0.54 0.38	0.80	1.73 0.91	1.73 1.25	4.09 4.46	29.0 29.0	5.16 4.50	1.39 1.10	0.34 0.15	55 48
CI	48 39	0.37 0.21	0.65 0.65	0.96 0.55	0.63	4.46 4.46	29.0 29.0	4,31 3,49	1.02 0.63	0.09 0.00	39 41
CI	44	0.04	0.80	0.13	0.13	4.46	29.0	1.91	0.13	0.00	43
CI	43	0.04	0.70	0.11	0.11	4.46 4.46	29.0 29.0	1.82	0.11	0.00	42
CI	40	0.15	0.80	0.48 2.30	2.30	4.46 LP	29.0 LP	3.14 5.45	2.30	0.00	41 LP
CI	51	0.04	0.80	0.13	0.13	4.46	29.0	1,91	0.13	0.00	50
CI CI	50 49 47	0.15 0.05 0.03	0.70 0.80 0.80	0.42 0.16 0.10	0.42 0.16 0.10	4.46 4.46 4.46	29.0 29.0 29.0	2.99 2.08 1.72	0.42 0.16 0.10	0.00 0.00 0.00	49 47 46
CI	46	0.03	0.80	0.10	0.10	1.00	19.0 19.0	2.27	0.10	0.00	87 89
CI	89	0.53	0,50	1.06	1.06	1.00	19.0	5.60	1.04	0.02	90
CI CI	120 119	0.07 0.65	0.80	0.22 1.30	0.22	5.00 4.79	30.5 29.0	2.31 4.51	0.22 1.10	0.00	119 117
CI	117 115	0.72 0.68	0.70 0.70	2,02 1,90	2.21	2.72 2.72	23,5 23,5	6,11 6.52	1.49 1.66	0.72 0.97	115 113
CI CI	113 97	0.50 0.22	0.75 0.70	1.50 0.62	2.47 1.49	3.73 1.98	26.0 21.0	6.01 5.59	1.60 1.15	0.87 0.34	97 95
CI	95 93	0.82	0.50	1.64	1.74	1.98 1.98	21.0	6.23 5.93	1.37	0.61	93 92
CI DCI	92 90	0.60	0.50	1.20	1.68	1.98 LP	21.0 LP	5.85 4.93	1.24	0.44	90 LP
CI	88	0.08	0.75	0.24	0.24	1.00	19.0	3.21	0.24	0.00	91
CI CI	98 96	0.21	0.80	0.67 0.86	0.67	1.98 1.98	21.0	4.15 4.55	0.67 0.81	0.00	96 94
CI DCI	94 91	0,22 0.90	0.65 0.80	0.57 2.88	0.62	1.98 LP	21,0 LP	4.02 6.33	0,62 2,88	0.00	91 LP
CI	111	0.15	0.70	0.42	0.42	4.12	29.0	3.03	0.42	0.00	END
CI	110	0.13	0.70	0.36	0.36	4.12	29.0	2,88	0,36	0.00	105
CI	105 106	0.14	0.80	0.45	0.45	5.40 3.97	30.5 26.0	2,95 2,28	0.45 0.19	0.00	106 107
DCI CI	107	0.23	0.80	0.74	0.74	LP 4.18	LP 29.0	3.33	0.74	0.00	LP 116
CI	116 116 114	0.63	0.80	2.02	2.02	2.72	23.5	5.91 6.24	1.41	0.61 0.80	116 114 112
CI	112	0.37	0.80	1.18	1.98	3.73 1.27	26.0 19.0	5.53 4.98	1.39	0.59	122 123
CI	134	0.04	0.80	0.13	0.13	5.00	30.5	1.87	0.13	0.00	132
CI CI	132 127	0.19 0.20	0.70 0.55	0.53 0.44	0.53 0.44	2.13 2.13	23.5 23.5	3,75 3,49	0,53 0.44	0.00	127 126
CI DCI	126 123	0.10 0.78	0.80	0.32 1.72	0.32 1.74	2.13 LP	23.5 LP	3.10 4.52	0.32 1.74	0.00	123 LP
CI	140	0,30	0.70	0.84	0.84	5,00	30,5	3,79	0.84	0.00	130
CI	130 129	0.29	0.65 0.70	0.75	0.75	2.13 2.13	23.5 23.5	3.06 5.90	0.75 0.31 2.59	0.00	129 124
CI	124	0.81	0.80	0.73	0.73	LP 5.00	30.5	3.60	0.73	0.00	135
DCI	135	0.27	0.65	0.70	0.70	LP	LP	2.47	0.70	0.00	LP
CI CI	146 145	0.03 0.07	0.80	0.10 0.17	0.10	5.00 5.00	30.5 30.5	1.68 2.07	0.10 0.17	0.00	145 144 <i>i</i>
CI	144A 141	0.13	0.60	0.31	0.31	5.00	30.5 30.5	2.62	0.31	0.00	141 140
CI CI	140A 139	0.02 0.02	0.60 0.80	0.05 0.06	0.05 0.06	5.00 5.00	30.5 30.5	1.30 1.44	0.05 0.06	0.00	139 136
CI	137	0.30	0.65	0.78	0.78	5.00	30.5	3.69	0.78	0.00	136
DCI	136	0.33	0.70	0.92	0.92	LP	LP	2.97	0.92	0.00	LP
CI DCI	148 147	0.51	0.65	1,33 0,29	1,33 0,42	1.00 LP	19.0 LP	6,09 1,75	1.20 0.42	0.13	147 LP
CI	153	0.13	0.75	0.39	0.39	1.57	21.0	3.54	0.39	0.00	152
CI	152 151	0.04	0.80	0.13	0.13	5.00	30.5 30.5	2.92	0.13	0.00	151 150
CI DCI	149 150	0.89	0.40	1,42 1.42	1.42	1.00 LP	19.0 LP	6.25	1.25 1.60	0.17	150 LP
CI	150	0.89	0.40	0,54	0.54	5.00	30.5	3,22	0.54	0.00	156
CI	156	0.06	0.80	0.19	0.19	1.75	21.0	2.66	0.19	0.00	158
CI DCI	163 158	0.01 1.56	0.60 0.40	0.02 2.50	0.02 2.50	0.50 LP	9.0 LP	1.54 5.75	0.02 2.50	0.00	158 LP
DCI	159	0.67	0.80	2,14	2.14	LP	LP	5,20	2,14	0.00	LP
DCI	165	1.00	0.80	3.20	3.20	LP	LP	6.79	3.20	0.00	LP
		1.25	0.50	2.50	2.50	LP	LP	5,76	2,50		

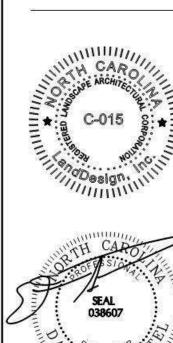
FACTOR:	Varies		INTENSITY ((I) (in/hr) =	10 year 7.24	25 year 8.00	Tailwater				INITIA	L Tc =	5.00	MIN.							
RIM	RIM	DRAINAG FROM ID: INVERT	E STRUCTURE TO	INVERT:	PIPE LENGTH (Ft.)	HW/D PIPE CONTROL (INLET AND	ELEVATIO	1' FREEBOARD CHECK	Inlet Control	Inlet Control Elevation	C IN	CREMEN	CA	RET. PERIO D	тс	l (in/hr	Q (cfs		SLOPE	DIA.	(FU
682.88 682.88 682.00	682.88 682.73 682.73	CI-26 678.30 CI-25 676.20 DI-24 677.50	CI-25 CI-23	678.00 675.20 677.20	24.52 44.48 30.12	0.54 0.74 0.43	N (HGL) 678.84 676.94 677.93	GOOD GOOD GOOD	0.14 0.11 0.09	683.02 682.99 682.09	0.75 0.80 0.40	0.17 0.12 0.18	0.13 0.10 0.07	25 25 25 25	5.00 0.	07 8.00 09 8.00 11 8.00	0.77	1.02 1.79 0.58	1.22 2.25 1.00	15 15 12	7. 9.
682.73 675.66 678.92	675.66 678.89 678.89	CI-23 675.10 CI-22 673.30 CI-21 671.40	CI-22 CI-20 CI-20	673.40 671.10 671.10	84.69 63.68 24.5	0.94 1.00 1.0	676.04 674.30 672.36	GOOD GOOD GOOD	0.06 0.06 0.26	682.79 675.72 679.18	0.80 0.80 0.80	0.04 0.05 0.42	0.03 0.04 0.34	25 25 25	5.00 0. 5.00 0. 5.00 0.	19 8.00 11 8.00 07 8.00	0.26 0.32 2.69	2.62 2.94 2.69	2.01 3.45 1.22	15 15 15	9. 11 7.
678.89 674.14 674.14	674.14 674.14 670.62	CI-20 670.80 CI-19 666.60 CI-18 665.50	CI-18 CI-18 DCI-9	666.00 666.30 661.40	152.1 24.5 160.5	1.6 0.9 1.9	672.39 667.53 667.40	GOOD GOOD GOOD	0.16 0.26 0.26	679.05 674.40 674.40	0.60 0.80 0.40	0.26 0.40 0.81	0.16 0.32 0.32	25 25 25	5.00 0.	24 8.00 07 8.00 23 8.00	2.56	6.88 2.56 12.03	3.16 1.22 2.56	18 15 24	18 7. 36
673.50 671.02 671.03	671.03 671.03 672.26	DI-17 667.10 DCI-16 666.40 DCI-15 666.00	DCI-15 DCI-15 CI-14	666.10 666.10 664.70	93.2 24.8 127.3	1.1 0.7 1.5	668.18 667.06 667.50	GOOD GOOD GOOD	0.30 0.17 0.19	673.80 671.19 671.22	0.45 0.60 0.60	0.89 0.30 0.33	0.40 0.18 0.20	25 25 25	5.00 0. 5.00 0.	29 8.00 07 8.00 35 8.00	1.44 1.58	4.66 1.44 7.68	1.07 1.21 1.02	15 15 18	6.9 7. 10
672.26 673.33 673.31	672.48 673.31 672.48	CI-14 664.60 CI-13 668.80 CI-12 666.70	CI-11 CI-12 CI-11	664.10 668.50 665.80	45.7 25.3 83.6	1.5 1.1 1.7	666.14 669.88 668.42	GOOD GOOD	0.06 0.30 0.26	672.32 673.63 673.57	0.80 0.80 0.60	0.04 0.50 0.54	0.03 0.40 0.32	25 25 25	5.00 0.	12 8.00 07 8.00 25 8.00	3.20	7.94 3.20 5.79	1.09 1.18 1.08	18 15 15	7. 6.
672.48 671.09 670.62	671.09 670.62 670.62	CI-11 663.60 CI-10 662.10 DCI-9 660.90	CI-10 DCI-9 DCI-7	662.20 661.40 660.60	139.0 62.7 24.5	1.9 2.2 3.2	665.55 664.28 664.11	GOOD GOOD GOOD	0.02 0.22 0.36	672.50 671.31 670.98	0.80 0.60 0.50	0.01 0.43 1.05	0.01 0.26 0.53	25 25 25	5.00 0. 5.00 0.	32 8.00 14 8.00 04 8.00	0.06 2.06 4.20	13.80 15.86 32.09	1.01 1.12 1.22	24 24 30	22 23 45
671.12 670.62 673.14 652.00	670.62 673.14 652.00 607.00	CI-8 663.60 DCI-7 660.50 SDMH-6 659.10 SDMH-5 638.00	DCI-7 SDMH-6 SDMH-5 SDMH-4	662.90 659.20 646.00 601.00	65.0 122.0 346.7 233.9	1.1 4.1 4.1 3.9	664.75 664.60 663.16 641.91	GOOD GOOD GOOD	0.32 0.36 0.00 0.00	671.44 670.98 673.14 652.00	0.80 0.80 0.00 0.00	0.55 0.66 0.00 0.00	0.44 0.53 0.00 0.00	25 25 25 25 25	5.00 0. 5.00 0. 5.00 0.	20 8.00 24 8.00 36 8.00 12 8.00	4.22 0.00 0.00	3.52 39.83 39.83 39.83	1.08 1.07 3.78 15.82	15 30 30 30	6. 42 79 163
607.00 668.65 668.65	N/A 668.65 667.28	SDMH-4 595.00 CI-86 664.30 CI-85 663.10	HW-3 CI-85 CI-83	594.00 664.00 661.70	37.0 24.5 106.1	0.7 1.0	605.10 664.99 664.08	GOOD GOOD GOOD	0.00 0.00 0.18 0.16	607.00 668.83 668.81	0.00 0.50 0.80	0.00 0.39 0.19	0.00 0.20 0.15	25 25 25		04 8.00 07 8.00 29 8.00	1.56	39.83 1.56 2.78	1.22 1.32	30 15 15	7. 7.
667.28 667.28 665.30	667.28 665.30 665.30	CI-84 662.70 CI-83 661.40 CI-82 660.70	CI-83 CI-81 CI-81	662.40 659.50 660.40	24.5 153.5 24.5	0.8 1.6 0.9	663.51 662.95 661.61	GOOD GOOD GOOD	0.22 0.20 0.25	667.50 667.48 665.55	0.40 0.80 0.50	0.64 0.27 0.62	0.26 0.22 0.31	25 25 25	5.00 0. 5.00 0. 5.00 0.	07 8.00 39 8.00 07 8.00	2.05 1.73 2.48	2.05 6.55 2.48	1.22 1.24 1.22	15 18 15	7. 11 7.
665.30 664.51 663.91 663.86	664.51 663.86 663.86 663.29	CI-81 659.00 CI-80 658.00 CI-79 659.30 CI-78 657.40	CI-80 CI-78 CI-78 CI-77	658.10 657.50 659.00 656.90	59.1 46.2 24.8 40.4	1.9 1.9 0.9 2.2	660.86 659.90 660.20 659.63	GOOD GOOD GOOD	0.26 0.07 0.25 0.09	665.56 664.58 664.16 663.95	0.80 0.60 0.50 0.70	0.40 0.07 0.61 0.09	0.32 0.04 0.31 0.06	25 25 25 25 25	5.00 0. 5.00 0.	11 8.00 10 8.00 07 8.00 08 8.00	0.34 2.44	11.59 11.93 2.44 14.87	1.52 1.08 1.21 1.24	24 24 15 24	27 23 7. 25
663.29 662.67 662.66	662.66 662.66 661.98	CI-77 656.80 CI-76 658.10 CI-75 656.20	CI-75 CI-75 CI-74	656.30 657.80 655.60	44.3 24.5 47.7	2.3 0.9 2.6	659.06 659.00 658.84	GOOD GOOD GOOD	0.06 0.25 0.08	663.35 662.92 662.74	0.60 0.40 0.80	0.06 0.76 0.07	0.04 0.30 0.06	25 25 25	5.00 0. 5.00 0.	10 8.00 07 8.00 10 8.00	2.43 0.45	15.16 2.43 18.04	1.13 1.22 1.26	24 15 24	24 7. 25
661.38 661.35 660.74	661.35 661.35 660.74 660.11	CI-74 655.50 CI-73 656.80 CI-72 654.50 CI-71 653.70	CI-69	655.00 656.50 653.80 653.20	44.8 24.6 43.5 44.1	2.7 1.0 2.5 2.5	658.19 657.77 656.97 656.20	GOOD GOOD GOOD	0.07 0.27 0.14 0.06	662.05 661.65 661.49 660.80	0.60 0.50 0.80 0.60	0.07 0.68 0.16 0.06	0.04 0.34 0.13 0.04	25 25 25 25 25	5.00 0. 5.00 0. 5.00 0.	10 8.00 07 8.00 07 8.00 08 8.00	2.72 1.02 0.29	18.38 2.72 22.12 22.41	1.12 1.22 1.61 1.13	24 15 30 30	7. 52 43
660.13 660.11 659.32 658.16	660.11 659.32 658.17 658.17	CI-70 655.60 CI-69 653.10 CI-68 652.30 CI-67 653.60	CI-69 CI-68 CI-66 CI-66	655.30 652.40 651.30 653.30	24.5 55.9 86.8 24.5	1.0 2.7 2.8 1.2	656.58 655.84 655.07 654.79	GOOD GOOD GOOD	0.27 0.05 0.06 0.33	660.40 660.16 659.38 658.49	0.60 0.50 0.50 0.70	0.58 0.06 0.08 0.66	0.35 0.03 0.04 0.46	25 25 25 25 25	5.00 0. 5.00 0.	07 8.00 10 8.00 16 8.00 07 8.00	0.24 0.32	2.78 25.43 25.75 3.70	1.22 1.25 1.15 1.22	15 30 30 15	7. 45 43 7.
658.17 656.58 655.56 655.56	656.58 655.56 655.56 655.00	CI-66 651.20 CI-65 649.90 CI-64 651.00 CI-63 648.60	CI-65 CI-63 CI-63 DCI-61	650.00 648.70 650.70 647.80	99.1 102.1 24.5 71.7	3.3 3.5 1.1 4.1	654.47 653.37 652.14 652.73	GOOD GOOD GOOD GOOD	0.20 0.21 0.31 0.22	658.37 656.79 655.87 655.78	0.50 0.50 0.80 0.50	0.43 0.48 0.54 0.52	0.22 0.24 0.43 0.26	25 25 25 25 25	5.00 0. 5.00 0.	18 8.00 19 8.00 07 8.00 14 8.00	1.92 3.46	31.17 33.09 3.46 38.62	1.21 1.18 1.23 1.12	30 30 15 30	45 44 7. 43
655.00 655.00	655.00 655.90	DCI-62 650.40 DCI-61 647.30	DCI-61 CI-53	650.10 646.20	24.5 109.2	1.1 3.6	651,49 650.95	GOOD GOOD	0.30 0.33	655.30 655.33	0.80 0.50	0.51 0.95	0.41 0.48	25 25	5.00 0. 5.00 0.	07 8.00 19 8.00	3.26 3.80	3.26 45.69	1.22 1.01	15 36	7. 67
673.73 673.57 671.00 671.91	673.57 671.91 671.91 670.42	CI-59 669.20 CI-58 668.80 DI-60 667.00 CI-57 665.40	CI-58 CI-57 CI-57 CI-56	668.90 665.80 665.70 664.80	24.8 39.7 129.7 53.9	1.1 1.5 1.1 1.9	670.34 670.27 668.12 667.33	GOOD GOOD GOOD	0.31 0.18 0.31 0.05	674.04 673.75 671.31 671.96	0.80 0.65 0.45 0.60	0.54 0.28 0.94 0.05	0.43 0.18 0.42 0.03	25 25 25 25 25	5.00 0. 5.00 0.	07 8.00 05 8.00 41 8.00 14 8.00	1.46 3.38	3.46 4.91 3.38 8.54	1.21 7.57 1.00	15 15 15 18	7. 17 6.
670.42 659.16 658.61	658.61 658.61 655.90	CI-56 664.70 CI-55 654.60 CI-54 651.10	CI-54 CI-54 CI-53	652.80 654.30 648.40	264.9 27.5 43.2	1.9 0.8 1.9	666.64 655.35 652.97	GOOD GOOD GOOD	0.05 0.20 0.18	670.47 659.36 658.79	0.80 0.60 0.70	0.03 0.38 0.28	0.02 0.23 0.20	25 25 25	5.00 0. 5.00 0. 5.00 0.	35 8.00 08 8.00 04 8.00	0.19 1.82 1.57	8.73 1.82 12.12	4.49 1.09 6.25	18 15 24	22 6. 56
655.90 655.90 654.38 649.23	655.90 654.38 649.23 646.68	CI-53 646.10 CI-52 645.70 CI-51 644.20 CI-50 641.70	CI-52 CI-51 CI-50 CI-49	645.80 644.30 641.80 639.20	24.5 44.1 115.5 58.1	4.7 4.6 4.7 4.7	650.78 650.35 648.89 646.43	GOOD GOOD GOOD	0.06 0.00 0.06 0.12	655.96 655.90 654.44 649.35	0.80 0.00 0.80 0.70	0.04 0.00 0.04 0.15	0.03 0.00 0.03 0.11	25 25 25 25 25	5.00 0. 5.00 0.	04 8.00 04 8.00 14 8.00 05 8.00	0.00 0.26	58.06 58.06 58.32 59.16	1.22 3.18 2.08 4.30	36 36 36 36	73 118 96 138
646.68 644.45 644.45	644.45 644.45 642.09	CI-49 639.10 CI-48 639.90 CI-47 635.50	CI-47 CI-47 CI-46	637.00 639.60 635.10	50.9 24.5 38.3	4.8 0.8 5.0	643.87 640.68 640.52	GOOD GOOD	0.06 0.21 0.05	646.74 644.66 644.50	0.80 0.65 0.80	0.05 0.37 0.03	0.04 0.24 0.02	25 25 25	5.00 0.	04 8.00 07 8.00 07 8.00	1.92	59.48 1.92 61.60	4.13 1.22 1.04	36 15 36	135 7. 68
653.00 656.71 651.17	656.71 651.17 651.17 647.24	DI-100 648.70 SDMH-99 648.10 CI-98 646.60	SDMH-99 CI-97 CI-97	648.20 646.90 646.30	44.8 114.4 24.5	0.6 0.6 0.6	649.28 648.68 647.23	GOOD GOOD GOOD	0.13 0.00 0.17	653,13 656,71 651,34	0.25 0.00 0.80	0.49 0.00 0.21	0.12 0.00 0.17	25 25 25	5.00 0. 5.00 0.	16 8.00 41 8.00 07 8.00	0.00 1.34	0,98 0.98 1.34	1.12 1.05 1.22	12 12 15 15	3. 3. 7. 9.
651.17 647.24 647.24 643.31	647.24 643.31 643.31	CI-97 645.60 CI-96 642.70 CI-95 641.40 CI-94 638.70	CI-95 CI-95 CI-93 CI-93	641.70 642.40 637.50 638.40	198.7 24.5 198.6 24.5	1.2 0.7 1.9 0.6	646.75 643.43 643.32 639.28	GOOD GOOD GOOD	0.16 0.20 0.30 0.15	651.33 647.44 647.54 643.46	0.70 0.65 0.50 0.65	0.22 0.33 0.82 0.22	0.15 0.21 0.41 0.14	25 25 25 25 25	5.00 0. 5.00 0.	45 8.00 07 8.00 40 8.00 07 8.00	1.72 3.28	3.56 1.72 8.55 1.14	1.96 1.22 1.96 1.22	15 18 15	7. 14 7.
643.31 640.75 639.73 639.73	640.75 639.73 639.73 639.92	CI-93 637.00 CI-92 634.30 DCI-91 635.20 DCI-90 633.40	DCI-90 DCI-90	634.40 633.40 634.90 633.10	129.4 85.0 24.5 35.6	2.0 2.3 1.4 2.7	639.03 636.61 636.61 636.06	GOOD GOOD GOOD	0.31 0.24 0.44 0.29	643.62 640.99 640.17 640.02	0.50 0.50 0.80 0.50	0.87 0.60 0.90 0.76	0.44 0.30 0.72 0.38	25 25 25 25 25	5.00 0. 5.00 0.	21 8.00 19 8.00 06 8.00 08 8.00	2.40 5.76	13.18 15.58 5.76 24.38	2.01 1.06 1.22 0.84	24 24 18 30	32 23 11 37
639.92 641.11 641.11 642.09	641.11 641.11 642.09 642.08	CI-89 633.00 CI-88 636.50 CI-87 632.00 CI-46 631.20	CI-87 CI-87 CI-46 CI-45	632.10 636.20 631.30 630.90	117.3 24.5 93.1 24.5	2.8 0.4 3.0 5.8	635.84 636.86 634.97 636.99	GOOD GOOD GOOD	0.23 0.08 0.14 0.05	640.15 641.19 641.25 642.14	0.50 0.75 0.50 0.80	0.53 0.08 0.27 0.03	0.27 0.06 0.14 0.02	25 25 25 25 25	5.00 0. 5.00 0.	27 8.00 07 8.00 21 8.00 04 8.00	0.48 1.08	26.50 0.48 28.06 89.84	0.77 1.22 0.75 1.22	30 15 30 42	35 7. 35 111
642.08 640.68 638.81	640.68 638.81 637.19	CI-45 630.80 CI-44 630.20 CI-43 628.60	CI-44 CI-43 CI-42 CI-39	630.30 628.70 627.10	43.2 42.5 36.9	5.8 5.8 5.8 5.9	636.60 635.97 634.38	GOOD GOOD GOOD GOOD	0.00 0.06 0.05 0.06	642.08 640.74 638.86	0.00 0.80 0.70	0.00 0.04 0.04	0.00 0.03 0.03	25 25 25	5.00 0. 5.00 0. 5.00 0.	06 8.00 04 8.00 03 8.00	0.00 0.26 0.22	89.84 90.10 90.32	1.16 3.53 4.06	42 42 42 42	108 188 202 111
637.19 630.53 634.56	635.75 634.56 635.75	CI-42 627.00 DCI-41 626.00 CI-40 624.60	CI-40 CI-39	626.50 624.90 624.20	40.6 107.8 36.2	1.4 1.4	632.85 627.40 625.98	GOOD GOOD	0.38 0.13	637.25 630.91 634.69	0.80 0.80 0.80	0.04 0.72 0.15	0.03 0.58 0.12	25 25 25	5.00 0. 5.00 0.	06 8.00 34 8.00 10 8.00	4.61 0.96	90.58 4.61 5.57	1.23 1.02 1.10	15 18	6. 11
635.75 658.00 645.00 632.00	635.00 645.00 635.00 635.00	CI-39 623.10 DI-38 650.50 DI-37 638.20 DI-36 627.40	DI-35 DI-37 DI-35 DI-35	621.70 638.30 630.20 626.50	136.5 248.7 162.2 88.1	6.4 1.2 1.6 0.4	629.49 651.70 639.83 627.84	GOOD GOOD GOOD	0.14 0.33 0.31 0.13	635.89 658.33 645.31 632.13	0.65 0.55 0.65 0.65	0.21 0.86 0.65 0.17	0.14 0.47 0.42 0.11	25 25 25 25	5.00 0. 5.00 0.	21 8.00 36 8.00 20 8.00 28 8.00	3.78 3.38	97.24 3.78 7.16 0.88	1.03 4.91 4.93 1.02	42 15 18 15	102 14 23 6.
635.00 607.00 678.77	607.00 N/A 678.77	DI-35 621.20 SDMH-34 595.00 DCI-165 674.20	SDMH-34 HW-33	601.00 594.00 673.90	108.8 33.9 24.5	5.3 10.2	626.45 605.20 675.73	GOOD GOOD	0.27 0.00	635.27 607.00 679.24	0.65 0.00 0.80	0.53 0.00	0.34 0.00 0.80	25 25 25	5.00 0.	04 8.00 03 8.00 06 8.00	0.00	108.04 108.04 6.40	18.56 2.95	48 48 18	618 246
678.77 679.50 678.81	679.50 678.81 678.81	DCI-164 673.80 CI-163 673.00 DCI-159 674.00	CI-163 DCI-158 DCI-158	673.10 672.40 673.70	125.5 103.1 24.5	1.8 1.9 1.3	675.64 674.85 675.32	GOOD GOOD GOOD	0.40 0.02 0.36	679.17 679.52 679.17	0.50 0.60 0.80	1.25 0.01 0.67	0.63 0.01 0.54	25 25 25	5.00 0. 5.00 0. 5.00 0.	39 8.00 31 8.00 07 8.00	5.00 0.05 4.29	11.40 11.45 4.29	0.56 0.58 1.23	24 24 15	16 17 7.
688.70 689.02 689.85 678.81	689.02 689.85 678.81 680.41	EX. CI-162 685.20 EX. CI-161 684.50 SDMH-160 677.80 DCI-158 671.90	EX. CI-161 SDMH-160 DCI-158 SDMH-157	684.64 683.60 672.20 671.40	33.9 81.4 164.6 98.4	1.1 1.4 1.4 2.8	686.31 685.90 679.18 674.73	GOOD GOOD GOOD	0.34 0.19 0.00 0.40	689.04 689.21 689.85 679.21	0.35 0.75 0.00 0.40	1.43 0.28 0.00 1.56	0.50 0.21 0.00 0.62	25 25 25 25 25	5.00 0. 5.00 0.	07 8.00 22 8.00 25 8.00 27 8.00	1.68 0.00	4.00 5.68 5.68 26.41	1.65 1.11 3.40 0.51	18 18 18 30	13 11 19 29
680.41 680.97 684.05	680.97 684.05 684.05	SDMH-157 671.30 CI-156 670.80 CI-155 670.40	CI-156 CI-155 CI-151	670.90 670.50 670.20	66.6 54.7 24.5	2.8 2.9 2.9	674.13 673.66 673.35	GOOD GOOD	0.00 0.07 0.14	680.41 681.04 684.19	0.00 0.80 0.80	0.00 0.06 0.17	0.00 0.05 0.14	25 25 25	5.00 0.	17 8.00 15 8.00 05 8.00	0.38	26.41 26.80 27.88	0.60 0.55 0.82	30 30 30	31 30 37
696.10 695.99 693.03	695.99 693.03 684.05	EX. CI-154 692.60 EX. CI-153 692.30 CI-152 688.40	EX. CI-153 CI-152 CI-151	692.39 688.50 679.50	33.7 66.3 168.8	0.8 0.9 1.0	693.36 693.21 689.37	GOOD GOOD GOOD	0.20 0.12 0.06	696.30 696.11 693.09	0.30 0.75 0.80	0.76 0.13 0.04	0.23 0.10 0.03	25 25 25	5.00 0. 5.00 0.	14 8.00 09 8.00 23 8,00	0.78 0.26	1.82 2.60 2.86	0.62 5.73 5.27	15 15 15	5.1 15 14
684.05 681.06 681.92 681.92	681.06 681.06 681.92 681.06	CI-151 670.10 DCI-150 669.40 CI-149 677.30 CI-148 675.10	DCI-150 DCI-147 CI-148 DCI-147	669.50 669.10 677.00 674.00	57.2 24.5 24.5 107.1	3.3 3.6 1.0 1.4	673.41 673.02 678.30 676.47	GOOD GOOD GOOD	0.12 0.27 0.27 0.26	684.17 681.33 682.19 682.18	0.80 0.40 0.40 0.65	0.13 0.89 0.89 0.51	0.10 0.36 0.36 0.33	25 25 25 25 25	5.00 0. 5.00 0. 5.00 0.	11 8.00 04 8.00 07 8.00 30 8.00	2.85 2.85 2.65	31.58 34.42 2.85 5.50	1.05 1.23 1.22 1.03	30 30 15 18	42 45 7. 10
681.06 680.23 676.32 673.75	680.23 676.32 673.75 672.33	DCI-147 668.60 CI-146 667.90 CI-145 667.00 CI-144A 665.90	CI-146 CI-145 CI-144A CI-141	668.00 667.10 666.00 665.40	53.2 74.1 50.7 29.7	3.3 3.3 3.3 3.3	671.92 671.23 670.34 669.24	GOOD GOOD GOOD	0.09 0.05 0.07 0.10	681.15 680.28 676.39 673.85	0.80 0.80 0.60 0.60	0.09 0.03 0.07 0.13	0.07 0.02 0.04 0.08	25 25 25 25 25	5.00 0. 5.00 0.	09 8.00 13 8.00 06 8.00 04 8.00	0.19 0.34	40.50 40.69 41.03 41.65	1.13 1.08 1.97 1.68	36 36 36 36	70 69 93 86
678.00 670.00 665.00	670.00 665.00 672.33	DI-144 670.40 DI-143 663.20 DI-142 660.10	DI-143 DI-142 CI-141	665.40 660.20 659.60	151.5 151.4 41.8	1.4 1.7 1.9	671.78 664.88 661.96	GOOD GOOD GOOD	0.38 0.27 0.36	678.38 670.27 665.36	0.40 0.50 0.60	1.43 0.68 0.89	0.57 0.34 0.53	25 25 25 25	5.00 O. 5.00 O.	26 8.00 30 8.00 09 8.00	4.58 2.72	4.58 7.30 11.57	3.30 1.98 1.20	15 18 24	11 14 24
672.33 670.86 669.50	670.86 669.39 669.39	CI-141 658.60 CI-140A 658.20 CI-140 664.90	CI-140A CI-139 CI-139	658.30 657.90 664.60	30.8 30.8 24.6	4.2 4.2 0.7	662.82 662.43 665.62	GOOD GOOD GOOD	0.06 0.03 0.19	672.39 670,89 669.69	0.60 0.60 0.70	0.06 0.02 0.30	0.04 0.01 0.21	25 25 25	5.00 0. 5.00 0. 5.00 0.	06 8.00 06 8.00 07 8.00	0.29 0.10 1.68	52.88 52.98 1.68	0.97 0.97 1.22	36 36 15	65 65 7.
669.39 672.43 672.43	664.06 672.43 665.34	CI-139 657.80 CI-138 667.90 CI-137 665.90		656.70 667.60 658.80	24.5 191,9	0.7 1.0	662.24 668.56 666.92	GOOD GOOD	0.03 0.18 0.18	669.42 672.61 672.61	0.80 0.70 0.65	0.02 0.26 0.30	0.02 0.18 0.20	25 25 25	5.00 0. 5.00 0.	19 8.00 07 8.00 32 8.00	1.46 1.56	1.46 3.02	1.02 1.23 3.70	36 15 15	7. 12
665.34 665.34 664.06 665.00	665.34 664.06 658.94 658.94	DCI-136 658.70 DCI-135 658.10 CI-134 656.60 DI-133 659.30	DCI-135 CI-134 CI-132 CI-132	658.40 657.50 651.50 654.10	24.5 59.3 138.9 52.5	1.5 1.5 5.0 1.3	660.16 659.60 661.61 660.56	GOOD GOOD GOOD	0.21 0.17 0.05 0.41	665.55 665.51 664.11 665.41	0.70 0.65 0.70 0.60	0.33 0.27 0.04 1.09	0.23 0.18 0.03 0.65	25 25 25 25 25	5.00 0. 5.00 0.	07 8.00 17 8.00 13 8.00 05 8.00	1.40 0.22	4.86 6.27 61.28 5.23	1.22 1.01 3.67 9.90	15 18 36 18	7. 10 127 33
658.94 661.00 658.94 655.90	658.94 658.94 655.90 655.90	CI-132 651.00 DI-131 656.40 CI-130 650.60 CI-129 648.80	CI-130 CI-130 CI-129 CI-127	650.70 652.60 648.90 648.50	24.5 138.0 136.1 24.5	4.3 1.1 4.6 4.7	655.33 657.55 655.23 653.47	GOOD GOOD GOOD GOOD	0.14 0.32 0.18 0.10	659.08 661.32 659.12 656.00	0.70 0.60 0.65 0.70	0.19 0.74 0.29 0.11	0.13 0.44 0.19 0.08	25 25 25 25 25	5.00 0. 5.00 0. 5.00 0.	04 8.00 26 8.00 19 8.00 04 8.00	1.06 3.55 1.51	67.58 3.55 72.64 73.25	1.22 2.75 1.25 1.22	42 15 42 42	111 10 112 111
656.00 655.90 654.00	655.90 654.00 652.31	DI-128 651.70 CI-127 647.90 CI-126 646.10	CI-127 CI-126 DCI-123	651.40 646.20 644.50	28.6 88.5 100.1	0.7 4.8 4.8	652.43 652.70 650.95	GOOD GOOD GOOD	0.17 0.13 0.10	656.17 656.03 654.10	0.25 0.55 0.80	0.68 0.20 0.10	0.17 0.11 0.08	25 25 25	5.00 0. 5.00 0. 5.00 0.	10 8.00 10 8.00 13 8.00	1.36 0.88 0.64	1.36 75.49 76.13	1.05 1.92 1.60	12 42 42	3.1 139 127
652.31 659.00 652.31 653.47	652.31 652.31 653.47 656.02	DCI-124 647.50 DI-125 653.70 DCI-123 644.40 CI-122 643.70	DCI-123 DCI-123 CI-122 CI-112	647.20 646.70 643.80 643.40	24.5 176.4 102.8 54.0	1.3 1.8 4.9 4.9	648.81 655.50 649.25 648.58	GOOD GOOD GOOD	0.41 0.96 0.31 0.09	652.72 659.96 652.62 653.56	0.80 0.25 0.55 0.80	0.81 4.05 0.78 0.09	0.65 1.01 0.43 0.07	25 25 25 25 25	5.00 0. 5.00 0.	06 8.00 20 8.00 20 8.00 11 8.00	18.63 3.43	5.18 18.63 103.38 103.95	1.22 3.97 0.58 0.56	18 24 48 48	11 45 109 107
681.00 678.72 673.06	678.72 673.06 672.07	DI-121 675.10 CI-120 672.20 CI-119 666.40	CI-120 CI-119 CI-118	672.30 666.50 666.00	82.7 104.1 33.1	0.9 1.0 1.4	676.01 673.20 667.79	GOOD GOOD GOOD	0.26 0.08 0.26	681.26 678.80 673.32	0.55 0.80 0.50	0.58 0.07 0.65	0.32 0.06 0.33	25 25 25 25	5.00 0.	14 8.00 14 8.00 08 8.00	0.45	2.55 3.00 5.60	3.39 5.48 1.21	15 15 18	11 15 11
672.07 666.88 666.12	666.12 666.12 660.60	CI-118 665.30 CI-117 662.30 CI-116 658.80	CI-116 CI-116 CI-114	659.30 661.90 653.20	204.4 37.2 203.2	1.6 1.3 2.2	666.86 663.57 661.00	GOOD GOOD GOOD	0.14 0.35 0.35	672.21 667.23 666.47	0.80 0.70 0.80	0.17 0.72 0.63	0.14 0.50 0.50	25 25 25	5.00 0. 5.00 0. 5.00 0.	33 8.00 11 8.00 28 8.00	1.09 4.03 4.03	6.69 4.03 14.75	2.94 1.08 2.76	18 15 24	18 6. 37
661.31 660.60 656.02 656.02	660.60 656.02 656.02 648.55	CI-115 656.70 CI-114 652.70 CI-113 651.40 CI-112 643.30	CI-114 CI-112 CI-112 CI-110	656.00 648.10 651.10 637.20	36.0 149.3 24.5 183.2	1.2 2.4 1.0 6.4	657.91 655.14 652.43 649.67	GOOD GOOD GOOD	0.33 0.31 0.28 0.24	661.64 660.91 656.30 656.26	0.70 0.80 0.75 0.80	0.68 0.54 0.50 0.37	0.48 0.43 0.38 0.30	25 25 25 25 25	5.00 0. 5.00 0.	08 8.00 17 8.00 07 8.00 15 8.00	3.46 3.00	3.81 22.02 3.00 131.34	1.95 3.08 1.22 3.33	15 30 15 48	9.1 71 7. 262
648.54 648.55 639.80 641.23	648.55 641.23 641.23 626.00	CI-111 644.00 CI-110 637.10 DI-109 635.20	CI-110 CI-105 CI-105 SDMH-104	643.70 632.10 634.90	24.5 148.4 27.9	0.5 6.4 0.6 6.4	644.49 643.48 635.81 633.73	GOOD GOOD GOOD GOOD	0.12 0.11 0.16 0.13	648.66 648.66 639.96 641.36	0.70 0.70 0.35 0.80	0.15 0.13 0.45 0.14	0.11 0.09 0.16	25 25 25	5.00 0. 5.00 0.	07 8.00 12 8.00 08 8.00	0.84 0.73 1.26	0.84 132.91 1.26 135.06	1.23 3.37 1.08 9.99	15 48 15 48	7. 263 6. 453
641.23 634.00 635.21 636.78	626.00 635.21 636.78 626.00	CI-105 627.30 DI-108 629.40 DCI-107 628.80 CI-106 627.90	DCI-107 CI-106	619.60 629.10 628.00 620.20	0.0000	6.4 1.3 1.4	633.73 630.65 630.16	GOOD GOOD	0.13 0.34 0.18	641.36 634.34 635.39	0.80 0.30 0.80	0.14 1.65 0.23	0.11 0.50 0.18	25	5.00 0.	04 8.00 09 8.00 22 8.00	3.96	135.06 3.96 5.43	9.99 1.00 1.00	48 15 18	453 6.4 10





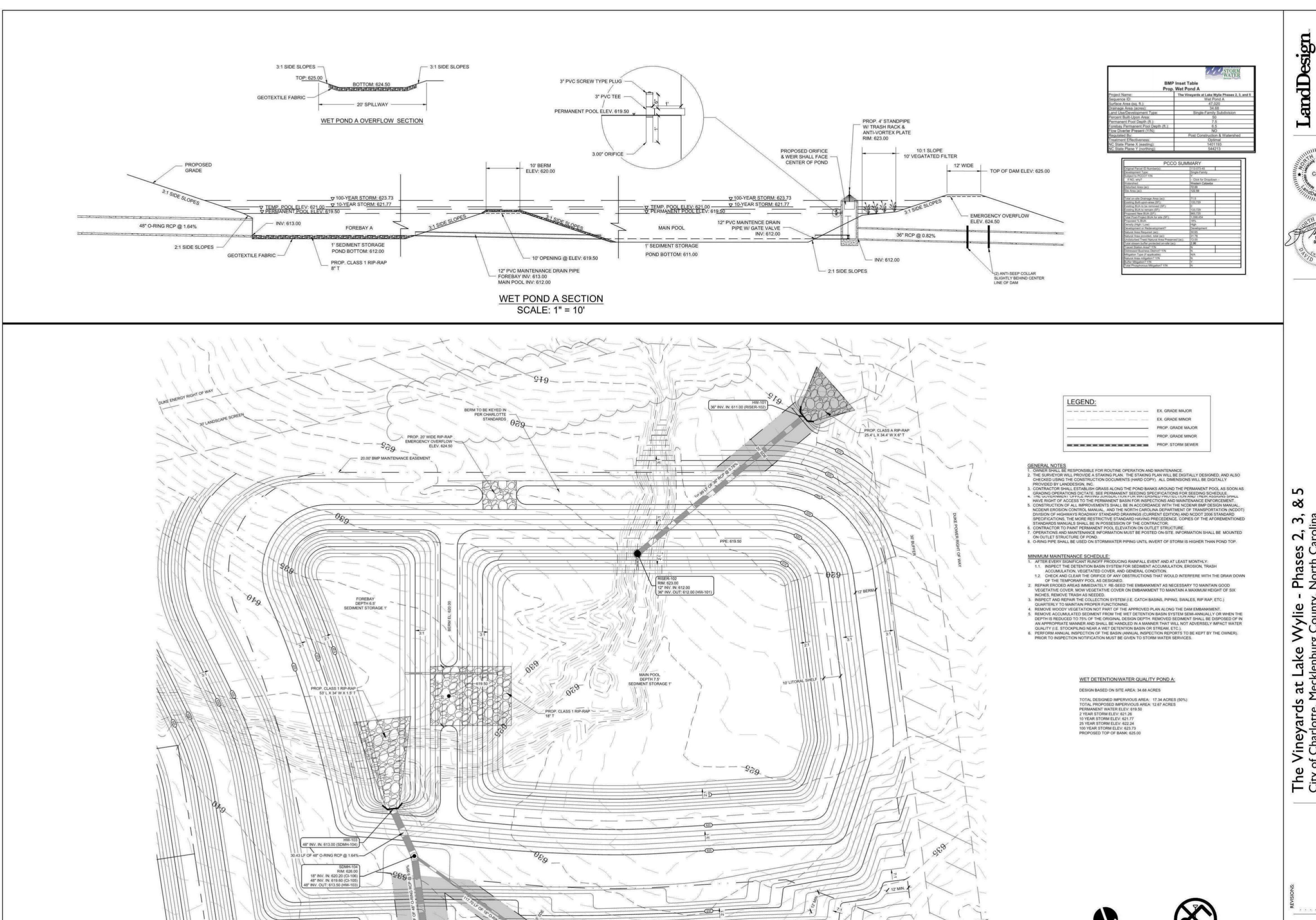












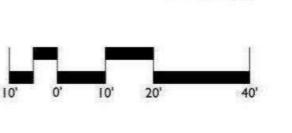
EX. BRIGHT ROAD

* * * * * * * * * *

ZONES 4,5 AND 6 SEED MIX - ±54,670 SF

	Botanical Name	Common Name	Height (FT.)	WIS *	Light Requirement	% of Mix
ACW Meadow Mix	60% Grasses from the following list:					
ST SHEAR ST	Glyceria striata	fowl mannagrass	5.5	OBL	part shade/shade	< or 10
te = 15 lbs./acre	Panicum anceps	beaked panicgrass (MD ecotype)	4	FAC-	part shade/shade	10 to 60
	Dicanthelium clandestinum	deer tongue	2	FACW	sun/part shade	10 to 60
	Panicum rigidulum	red-top panicgrass (NC ecotype)	3.5	FACW	sun	20 to 60
	15-20 % Sedges & Rushes from the follow	ving list:				
	Carex hipulina	hop sedge	4	OBL	sun/part shade	2 to 20
	Carex hırida	shallow sedge	3	OBL	sun/part shade	2 to 20
	Carex tribuloides	blunt broom sedge	3	FACW+	part shade/shade	2 to 20
	Juncus coriaceus	leathery rush	3	FACW	part shade/shade	2 to 20
	Juncus effusus	soft or common rush	6	FACW+	sun	2 to 10
	Scirpus atrovirens	black bulrush	6	OBL	sun	2 to 20
	Scirpus cyperinus	woolgrass bulrush	5	OBL	sun/part shade	2 to 5
	5-15% Composite Flowers from the followers	wing list:				
	Aster (Symphyotrichum) puniceum	purplestem aster	8	OBL	sun	2 to 5
	Bidens aristosa	tickseed sunflower (NC ecotype)	3.5	FACW	sun/part shade	2 to 5
	Helenium autumnale	common sneezeweed (VA ecotype)	5	FACW	sun	2 to 5
	Helenium flexuosum	purplehead sneezeweed	3	FACW	sun	2 to 5
	Helianthus angustifolius	swamp sunflower (NC ecotype)	5.5	FAC+	sun/part shade	2 to 5
	Vernonia noveborecensis	Ironweed ('Suther', NC ecotype)	6.5	FAC+	sun/part shade	1 to 5
	1 to 10 % Other Flowering Species, from	the following list:				
	Hibiscus moscheutos	crimsoneyed rosemallow	6.5	OBL	sun	1 to 10
	Rhexia mariana	Maryland meadowbeauty	2.5	FACW+	sun	1 to 10
	Saururus cernuus	Lizardtail	4	OBL	sun/part shade	1 to 10
						100
	WIS * is the Regional Wetland Indicator St	ams (Region 2 - SE US)				







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452 STEMS

1.3 AC*20=26 TREES

14,113 SF 7,056 PLANTS

WET POND #1

400 STEMS PER ACRE

90% OTHER STEMS

EVERGREEN TREES DECIDUOUS SHRUBS EVERGREEN SHRUBS

TREES/ACRE

*OTHER STEMS INCLUDE:

10% LARGE MATURING TREES

WET POND PLANTING CALCULATOR

SMALL MATURING DECIDUOUS TREES

ADDITIONAL 20 LARGE MATURING

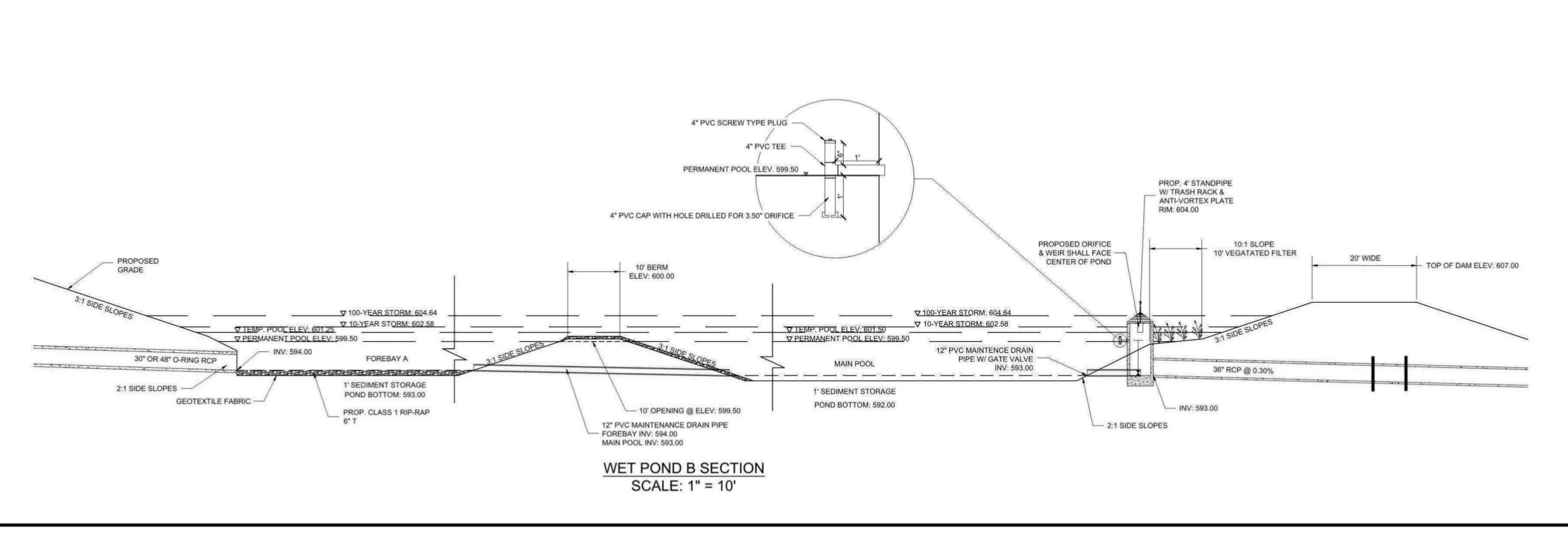
WET POND PLANTING CALCULATOR

WEST OF THE RETAINING WALL.

ZONES 1-3 0.5 PLANTS PER SF

NO TREES OR SHRUBS TO BE PLACED WITHIN THE LIMITS OF THE WET POND GRADING DUE TO POTENTIAL ROOT DAMAGE TO THE DAM ITSELF. PLANT SPECIES AND LOCATIONS TO BE FIELD VERIFIED UPON STABILIZATION OF THE WET POND PLANTING AREA LOCATED

LandDesign



DEPTH 6.5°

PROP. CLASS 1 RIP-RAP

SEDIMENT STORAGE 1'

PROP. CLASS A RIP-RAP 30.2' L X 19.6' W X 6" T

30" INV. IN: 601.00 (SDMH-5) 30" INV. OUT: 595.00 (HW-3)

30" INV. IN: 594.00 (SDMH-4)

36.95 LF OF 30° O-RING RCP @ 2.71%-

111 - HERSHI

SEDIMENT STORAGE 1"

RIM: 604.00

12" INV. IN: 593.00 36" INV. OUT: 593.00 (HW-1)

15" INV. IN: 638.30 (DI-38) 8" INV. OUT: 638.20 (DI-35)

RIM: 607.00

48" INV. IN: 601.00 (DI-35)

48" INV. OUT: 595.00 (HW-33)

33.85 LF OF 48" O-RING RCP @ 2.95%-

PROP. CLASS B RIP-RAP

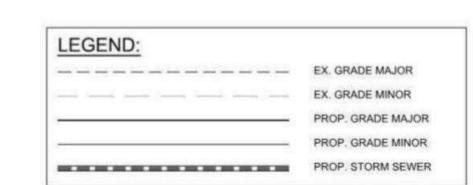
40.5' L X 28.2' W X 12" T

CONTRACTOR TO KEY IN EMBANKMENT PER CITY OF CHARLOTTE STANDARDS

PROP. CLASS A RIP-RAP 23.5' L X 32.5' W X 6" T

42" INV. IN: 621.70 (CI-39

18" INV. IN: 630.20 (DI-37) 15" INV. IN: 626.50 (DI-36) 48" INV. OUT: 621.20 (SDMH-34



BMP Inset Table Prop. Wet Pond B

PCCO SUMMARY

urface Area (sq. ft.)

The Vineyards at Lake Wylle Phases 2, 3, and

- GENERAL NOTES

 1. OWNER SHALL BE RESPONSIBLE FOR ROUTINE OPERATION AND MAINTENANCE.

 2. OWNER SHALL BE RESPONSIBLE FOR ROUTINE OPERATION AND MAINTENANCE.

 2. OWNER SHALL BE RESPONSIBLE FOR ROUTINE OPERATION AND MAINTENANCE. 2. THE SURVEYOR WILL PROVIDE A STAKING PLAN. THE STAKING PLAN WILL BE DIGITALLY DESIGNED, AND ALSO CHECKED USING THE CONSTRUCTION DOCUMENTS (HARD COPY). ALL DIMENSIONS WILL BE DIGITALLY
- PROVIDED BY LANDDESIGN, INC. 3. CONTRACTOR SHALL ESTABLISH GRASS ALONG THE POND BANKS AROUND THE PERMANENT POOL AS SOON AS
- GRADING OPERATIONS DICTATE. SEE PERMANENT SEEDING SPECIFICATIONS FOR SEEDING SCHEDULE.

 4. THE GOVERNMENT OFFICE HAVING JURISDICTION FOR WATERSHED PROTECTION AND THEIR ASSIGNS SP HAVE RIGHT OF ACCESS TO THE PERMANENT BASIN FOR INSPECTIONS AND MAINTENANCE ENFORCEMENT. 5. CONSTRUCTION OF ALL IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE NCDENR BMP DESIGN MANUAL, NCDENR EROSION CONTROL MANUAL, AND THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT)
- STANDARDS MANUALS SHALL BE IN POSSESSION OF THE CONTRACTOR. 6. CONTRACTOR TO PAINT PERMANENT POOL ELEVATION ON OUTLET STRUCTURE.

DIVISION OF HIGHWAYS ROADWAY STANDARD DRAWINGS (CURRENT EDITION) AND NCDOT 2006 STANDARD SPECIFICATIONS, THE MORE RESTRICTIVE STANDARD HAVING PRECEDENCE. COPIES OF THE AFOREMENTIONED

- 7. OPERATIONS AND MAINTENANCE INFORMATION MUST BE POSTED ON-SITE. INFORMATION SHALL BE MOUNTED ON OUTLET STRUCTURE OF POND.
- 8. O-RING PIPE SHALL BE USED ON STORMWATER PIPING UNTIL INVERT OF STORM IS HIGHER THAN POND TOP.

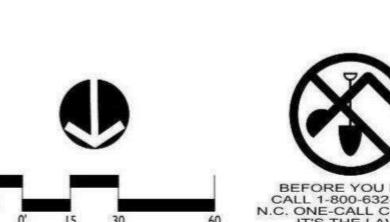
- AFTER EVERY SIGNIFICANT RUNOFF PRODUCING RAINFALL EVENT AND AT LEAST MONTHLY: 1.1. INSPECT THE DETENTION BASIN SYSTEM FOR SEDIMENT ACCUMULATION, EROSION, TRASH
- ACCUMULATION, VEGETATED COVER, AND GENERAL CONDITION. 1.2. CHECK AND CLEAR THE ORIFICE OF ANY OBSTRUCTIONS THAT WOULD INTERFERE WITH THE DRAW DOWN OF THE TEMPORARY POOL AS DESIGNED.
- 2. REPAIR ERODED AREAS IMMEDIATELY. RE-SEED THE EMBANKMENT AS NECESSARY TO MAINTAIN GOOD VEGETATIVE COVER. MOW VEGETATIVE COVER ON EMBANKMENT TO MAINTAIN A MAXIMUM HEIGHT OF SIX
- INCHES, REMOVE TRASH AS NEEDED. 3. INSPECT AND REPAIR THE COLLECTION SYSTEM (I.E. CATCH BASINS, PIPING, SWALES, RIP RAP, ETC.)
- QUARTERLY TO MAINTAIN PROPER FUNCTIONING. 4. REMOVE WOODY VEGETATION NOT PART OF THE APPROVED PLAN ALONG THE DAM EMBANKMENT.
- 5. REMOVE ACCUMULATED SEDIMENT FROM THE WET DETENTION BASIN SYSTEM SEMI-ANNUALLY OR WHEN THE DEPTH IS REDUCED TO 75% OF THE ORIGINAL DESIGN DEPTH. REMOVED SEDIMENT SHALL BE DISPOSED OF IN AN APPROPRIATE MANNER AND SHALL BE HANDLED IN A MANNER THAT WILL NOT ADVERSELY IMPACT WATER QUALITY (I.E. STOCKPILING NEAR A WET DETENTION BASIN OR STREAM, ETC.).
- 6. PERFORM ANNUAL INSPECTION OF THE BASIN (ANNUAL INSPECTION REPORTS TO BE KEPT BY THE OWNER). PRIOR TO INSPECTION NOTIFICATION MUST BE GIVEN TO STORM WATER SERVICES.

WET DETENTION/WATER QUALITY POND B:

DESIGN BASED ON SITE AREA: 36.82 ACRES

TOTAL DESIGNED IMPERVIOUS AREA: 18.41 ACRES (50%) TOTAL PROPOSED IMPERVIOUS AREA: 11.49 ACRES

PERMANENT WATER ELEV: 599.50 2 YEAR STORM ELEV: 601.89 10 YEAR STORM ELEV: 602.58 25 YEAR STORM ELEV: 603.19 100 YEAR STORM ELEV: 604.64 PROPOSED TOP OF BANK: 607.00







.



LandDesign

WET POND B

WET POND PLANTING CALCULATOR ZONES 4-6

27,825 SF (0.63AC) 400 STEMS PER ACRE 252 STEMS 10% LARGE MATURING TREES 26 TREES 226 STEMS* 90% OTHER STEMS

*OTHER STEMS INCLUDE: SMALL MATURING DECIDUOUS TREES **EVERGREEN TREES DECIDUOUS SHRUBS EVERGREEN SHRUBS**

ADDITIONAL

20 LARGE MATURING TREES/ACRE 0.63 AC*20=13 **TREES**

WET POND PLANTING CALCULATOR

ZONES 1-3

0.5 PLANTS PER SF 8,240 PLANTS

16,480 SF

NO TREES OR SHRUBS TO BE PLACED WITHIN THE LIMITS OF THE WET POND GRADING DUE TO POTENTIAL ROOT DAMAGE TO THE DAM ITSELF. PLANT SPECIES AND LOCATIONS TO BE FIELD VERIFIED UPON STABILIZATION OF THE WET POND PLANTING AREA LOCATED

ZONES 4,5 AND 6 SEED MIX - ±27,825 SF ±9.45 LBS MIX FROM TABLE ABOVE

WIS * is the Regional Wetland Indicator Status (Region 2 - SE US)

15-20 % Sedges & Rushes from the following list:

8-15% Camposite Plowers from the following list:

APPENDIX C - CHARLOTTE/MECKLENBURG SEED MIX LIST

PLANT_SCHEDULE_ZONES_4,5,6

REES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CALIPER	HEIGHT	REMARKS
	CACA	1	Carpinus caroliniana	American Hornbeam	B & B	2" cal.	8' ht.	
$\widetilde{\mathfrak{S}}$	DIVI	3	Diospyros virginiana	Common Persimmon	B & B	2.5" CAL. MIN.	10'-12' HT	
$\vec{\circ}$	LIST	9	Liquidambar styraciflua	Sweet Gum	B & B	3" Cal	14`-16` ht.	
$\widetilde{\circlearrowleft}$	LITU	12	Liriodendron tulipifera 'Emerald City' TM	Emerald City Tulip Tree	B & B	3" Cal	10` ht.	
$\overline{\odot}$	NYSY	6	Nyssa sylvatica	Black Gum	B & B	2"	10`-12` HT	
	PITA	16	Pinus taeda	Loblolly Pine	B & B	2"	10'-12' HT	
$\tilde{\odot}$	QUMI	11	Quercus michauxii	Swamp White Oak	B & B	2**	14`-16` ht.	
$\tilde{\Lambda}$	QUNI	4	Quercus nigra	Water Oak	B & B	3" Cal	14`-16` ht.	

TOTAL LARGE MATURING TREES: 62

SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SPACING	SIZE	REMARKS
0	AEPA	22	Aesculus pavia	Red Buckeye	3 GAL.	6` o.c.	36"-42" HT., 36"-42" WT	FULL TO GROUND
\odot	CAAM	21	Callicarpa americana	American Beautyberry	3 GAL.	6° o.c.	24" HT., 24"-30" WT.	FULL TO GROUND
· ·	COAM	33	Cornus amomum	Silky Dogwood	3 GAL.	10° o.c.	36"-42" HT., 36"-42" WT	FULL TO GROUND
0	EUAM	19	Euonymus americanus	Strawberry-Bush	3 GAL.	6° o.c.	24" HT., 24"-30" WT.	FULL TO GROUND
0	HYHY	44	Hypericum hypericoides	St. John's Wort	3 GAL.	3° o.c	18"-24" ht.	FULL TO GROUND
0	ILWI	22	llex verticillata	Winterberry	3 GAL.	8° o.c.	36"-42" HT., 36"-42" WT	FULL TO GROUND
0	RHMA	62	Rhododendron maximum	Rose Bay	3 GAL.	8° o.c.	36"-42" HT., 36"-42" WT	FULL TO GROUND
·	RHNU	3	Rhododendron nudiflorum	Pinxterbloom Azalea	3 GAL.	5` o.c.	24" HT., 24"-30" WT.	FULL TO GROUND

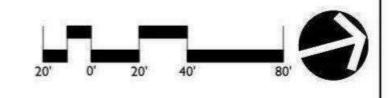
TOTAL OTHER STEMS: 226

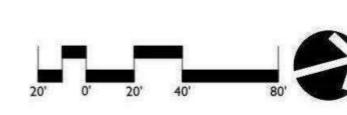
AQUATIC PLANTS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SPACING	REMARKS
	ANGL	2,061	Andropogon glomeratus	Bush Beard Grass	2"DIAx5" PLUG	6" o.c.	
	CAST	557	Carex stricta	Tussock Sedge	2"DIAx5" PLUG	12" o.c.	
	JUNE	3,516	Juncus effusus	Soft Rush	2" dia x 5" Plug	6" O.C.	
	SALA	1,478	Sagittaria latifolia	Duck Potato	2" dia x 5" Plug	24" o.c.	
	SACE	893	Saururus cernuus	Lizard's Tail	2"DIAx5" PLUG	24" O.C.	
+ + + + + + + + + + +	4						

Common Threesquare 2"DIAx5" PLUG 24" o.c.

TOTAL AQUATIC PLANTS: 8,963







LandDesign

2, 3, rrolina

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--- TRENCH WIDTH ---

PLAN VIEW

ANTI-SEEP

ANTI-SEEP COLLAR.
CLASS B CONCRETE.

ANTI-SEEP COLLAR

MINIMUM TWO ANTI-SEEP COLLARS

CLDSM (WES MANUAL) FOR

LOCATIONS

PER CULVERT OUTLET, REFER TO

ELEV. = 619.50

RISER-102

DESIGNED BY: DWC
DRAWN BY: DWC
CHECKED BY: DGG
Q.C. BY: DGG
SCALE: N.T.S.
PROJECT #: 1015261
SHEET #:

andDesign

ELEV. = 599.50

RISER-2