GENERAL NOTES

STORM WATER

Drainage Area 1

SITE INPUT

Post-Development

Land Cover/Land Use	Hydrologic Soil Group	% Impervious	CN	Area (sf)	CN*Area	% Area	Impervious Area Disconnected?
Open Space: grass cover > 75%	D	3%	80	32,546	59.8	100.0%	No

Total (Acres)	0.75	Any disconnected impervious area?	No
% Impervious	3.0%	Impervious area 30% or less?	Yes
Weighted CN (standard)	80	Use adjusted CN value	No
Weighted CN (adjusted)		CN pervious	80
CN for Use	**80**	Ratio of unconnected	0%

Precipitation for storage volume requirement (in)	1.25
S, max natural retention	2.5
Q, runoff (in)	0.17

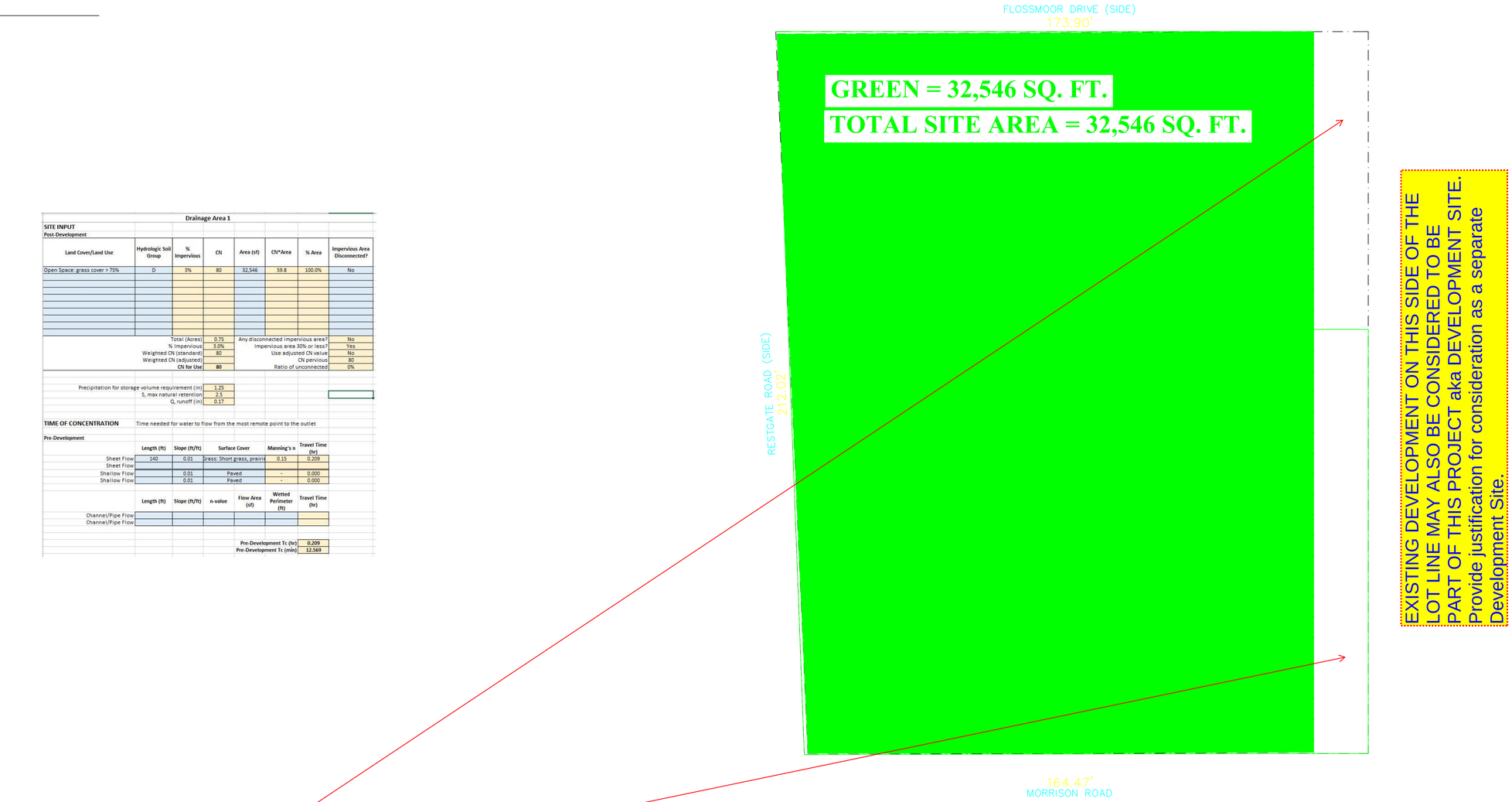
TIME OF CONCENTRATION Time needed for water to flow from the most remote point to the outlet

Pre-Development

	Length (ft)	Slope (ft/ft)	Surface Cover	Manning's n	Travel Time (hr)
Sheet Flow	140	0.01	Grass: Short grass, prairie	0.15	0.209
Sheet Flow					
Shallow Flow		0.01	Paved	-	0.000
Shallow Flow		0.01	Paved	-	0.000

	Length (ft)	Slope (ft/ft)	n-value	Flow Area (sf)	Wetted Perimeter (ft)	Travel Time (hr)
Channel/Pipe Flow						
Channel/Pipe Flow						

Pre-Development Tc (hr)	**0.209**
Pre-Development Tc (min)	**12.569**



EXISTING DEVELOPMENT ON THIS SIDE OF THE LOT LINE MAY ALSO BE CONSIDERED TO BE PART OF THIS PROJECT aka DEVELOPMENT SITE. Provide justification for consideration as a separate Development Site.

THIS AREA OF EXISITNG DEVELOPMENT IS PART OF THIS PROJECT AND MUST BE INCLUDED IN CAPTURWE VOLUME

1 A-1 PRE DEVELOPMENT PLAN
SCALE: 1/16"=1'-0"

MODULAR BUILDING ADDITION
SENTINO EARLY CHILDHOOD ACADEMY TOO
10100 MORRISON ROAD
NEW ORLEANS, LA
ORLEANS PARISH

STATE OF LOUISIANA
THOMAS E. PITTMAN
License No. 19516
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
07-25-2021

THOMAS E. PITTMAN P. E.
CONSULTING ENGINEER
27011 REGENCY PARK DR.
DENHAM SPRINGS, LA.

SPECTRUM DESIGNS, LLC
2439 MANHATTAN BLVD, SUITE 209
Suite 209 - HARVEY, LA 70058
(504) 366 - 0710
E-Mail: specdesignsllc@gmail.com

Date: 07-25-2021
Drawn: TEP
Checked: TEP

Sheet Title:
SWP PLAN

Drawing No.
SW - 1

SWMP NOTES:

1. ALL PERMEABLE P… SHALL BE SUBJECT TO INFILTRATION TESTING AFTER INSTALLATION.
TESTING SHALL BE C… THE ASTM INTERNATIONAL C1701 OR C1781 STANDARDS AS APPROPRIATE
ALL TYPES OF PERM… MAINTAIN A MINIMUM INFILTRATION RATE
2. IN ORDER TO EN… STORM WATER AND TO MINIMIZE THE M…
FINISHED GRADE OF … SHALL BE SET 3" MINIMUM BELOW SURF…
CONTAINMENTS (CUF… TIONS, ETC.) THIS STANDARD MAY BE W…
PROMOTE THE PRES… N AS SUCH.
3. PURSUANT TO BU… 17: PRIOR TO ISSUANCE OF A CERTIFIC…
POST–CONSTRUCTIO… AS BUILT DRAWINGS, AFFIDAVITS FRO…
PERFORMANCE BOND… L COST OF CONSTRUCTION MUST BE SU…
FINAL INSPECTION T… RECORDED WITH THE CIVIL DISTRICT C…
4. PURSUIT TO BUIL… (E): PRIOR TO RELEASE FOR CONSTRUC…
EXECUTE A CONSTRI… NCE WITH BUILDING CODE SECTION 121.…
DPW STANDARD SPE… INCLUDE CONTRACT INFORMATION (NAM…
ON – SITE PERSON … ACTED IN THE EVENT OF A VIOLATION …

LABEL EACH SURFACE USED AND SPECIFY THE QUANTITY CALCULATED. NOTE THAT GI ALL TYPES HAS NEE ADJUSTED TO BALANCE SITE AND INDIVIDUAL INPUTS AND THAT NO PORTION OF THE PROPOSED IMPERVIOUS COVER PASSES THROUGH A TRULY PERVIOUS AREA BEFORE LEAVING THE SITE

Drainage Area 1

Drainage Area Used:	Yes

SITE INPUT

Land Cover/Land Use	Hydrologic Soil Group	% Impervious	CN	Area (sf)	CN*Area	% Area	Impervious Area Disconnected ?
Commercial Roof	D	100%	98	2,382	8.71	8%	No
Open Space: grass cover > 75%	D	3%	80	23,274	42.63	75%	No
Other Impervious	D	100%	98	1,350	3.49	5%	No
Green Infrastructure (all types)	D	0%	98	4,363	9.82	14%	No
Green Infrastructure (all types)	D	0%	98	437	0.38	1%	No

Total Area (Acres)	0.747	Any disconnected impervious area?	No
% Impervious	16.1%	Impervious area 30% or less?	Yes
Weighted CN (unadjusted)	85	Use adjusted CN value	No
Weighted CN (adjusted)		CN pervious	80
CN for Use	**85**	Ratio of unconnected	0%

Precipitation for storage volume requirement (in)	1.25	GI in Site Input (sf)	4800
S, max natural retention	1.7	GI individual Input (sf)	4800
Q, runoff (in)	0.31	Match	YES
Require Storage Volume (cf)	**834**		

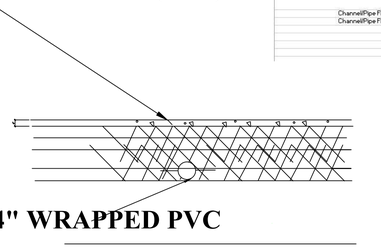
TIME OF CONCENTRATION

	Length (ft)	Slope (ft/ft)	Surface Cover	Manning's n	Travel Time (hr)
Sheet Flow	212	0.01	Grass: Short grass; prairie	0.15	0.29
Sheet Flow					
Shallow Flow		0.01	Unpaved	-	0.00
Shallow Flow				-	

	Length (ft)	Slope (ft/ft)	n-value	Flow Area (sf)	Wetted Perimeter (ft)	Travel Time (hr)
Channel/Pipe Flow		0.01	0.013	0.0872665	1.0471976	0.000
Channel/Pipe Flow						

Post-Development Tc (hr)	**0.29**
Post-Development Tc (min)	**17.5**

PAVER SYSTEM (H20)



PROVIDE MORE DETAIL

THIS .75 ACRE SITE WILL BE A DAY CARE CENTER ALL THE RUN OFF WILL BE DIRECTED TO THE PEVIOUS PAVERS AND THEN PIPED TO THE DRAINAGE SYSTEM ON MORRISON ST.

1 A–1 POST DEVELOPMENT PLAN
SCALE: 1/16"=1'-0"

EXISTING DEVELOPMENT ON THIS SIDE OF THE LOT LINE MAY ALSO BE CONSIDERED TO BE PART OF THIS PROJECT aka DEVELOPMENT SITE. Provide justification for consideration as a separate Development Site.

Drainage Area 1

GREEN INFRASTRUCTURE INPUT

Pervious Pavement	PP1A	PP1B	PP1C	PP1D
Area (sf)	4800			
Contributing Drainage Area (sf)	26176			
Pavement Depth (in)	4	4	4	4
Pavement Void Space	0.2	0.2	0.2	0.2
Aggregate Layer Depth (in)	24	24	24	24
Aggregate Layer Void Space	0.38	0.35	0.35	0.35
Storage Volume (cf)	3968			
Total PP Storage Volume (cf)	**3968**			

Bioretention/Bioswale/Planter	Bio1A	Bio1B	Bio1C	Bio1D
Length (ft)				
Width (ft)				
Side Slope Ratio (X:1)				
Area (sf)	0			
Contributing Drainage Area (sf)				
Ponding Depth (in)	0	3	3	3
Biorentention Soil Depth (in)	18	8	8	8
Biorentention Soil Void Space	0.3	0.3	0.3	0.3
Bridging Stone Layer Depth (in)	0	3	3	3
Bridging Stone Void Space	0.35	0.35	0.35	0.35
Aggregate Layer Depth (in)	0	18	18	18
Aggregate Layer Void Space	0.3	0.3	0.3	0.3
Subsurface Storage Volume (cf)	0			
Surface Storage Volume (cf)				
Total Storage Volume (cf)				
Total Bioretention Storage Volume (cf)	**0.0**			

THIS NUMBER NEEDS TO BE 32,546 IF THE STATEMENT ABOVE IS CORRECT.

Drainage Area 1

Detention/Retention Basins

Basin Used?	no
Detention or Retention?	Detention
Contributing Drainage Area (sf)	

Stage (ft)	Surface Area (sf)	Volume (cf)
0		0
0.25		

Orifice Information

Centerline Depth (ft)	Area (sf)	Coefficient of Discharge
0.30	0.200	0.62

Total Basin Storage Volume (cf)	0
Total Surface Area (sf)	0
Total Provided Storage Non-Detention (cf)	3968
Total Provided Storage with Detention (cf)	3968
SubArea Requirement Met	YES
Total Contributing Area to GI (sf)	26,176
Total Drainage Area(sf)	32,546
Contributing Area Equal or Less than Drainage Area	YES

SUBMIT A GRADING, DRAINAGE, AND UTILITY PLAN SUFFICIENT TO CONSTRUCT AND TO INSPECT

SUBMIT SWPPP AND LANDSCAPE PLANS

CONSENT FROM SPECTRUM PLANNING & DESIGN GROUP INC.

CONTRACTOR SHALL DIRECT ANY QUESTIONS PERTAINING TO THESE PLANS TO THE ENGINEER. ANY DEVIATIONS FROM THESE PLANS WITHOUT CONSULTING AND/OR WRITTEN CONSENT FROM THE ENGINEER SHALL NULL AND VOID ALL LIABILITIES

"I HAVE RESEARCHED THIS CHAPTER AND THE LOUISIANA STATE UNIFORM CONSTRUCTION CODE AND TO THE BEST OF MY KNOWLEDGE AND BELIEF THESE DRAWINGS ARE IN COMPLIANCE THEREWITH. I TAKE FULL RESPONSIBILITY FOR THE CONTENTS OF THESE PLANS".

SPECTRUM DESIGNS, LLC
2439 MANHATTAN BLVD, SUITE 209
Suite 209
HARVEY, LA 70058
(504) 366 - 0710
E-Mail: spectdesignsllc@gmail.com

Date: 07–25–2021
Drawn: TEP
Checked: TEP

Sheet Title: SWP PLAN

Drawing No. SW – 2

ADDITION
ACADEMY TOO
N ROAD
NEW ORLEANS, LA
ORLEANS PARISH
DENHAM SPRINGS, LA.