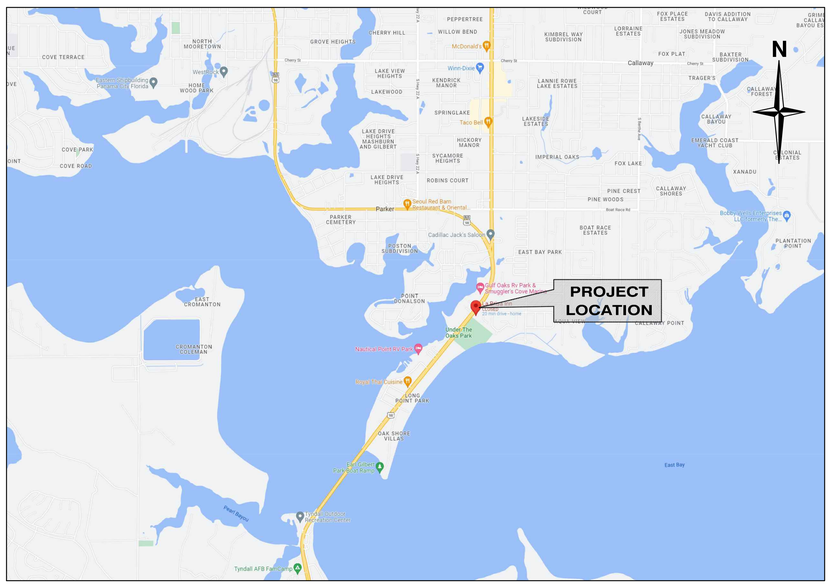
LA BRISA INN
5711 TYNDALL PARKWAY

FOR:

RUDRAP, INC.
320 TRIESTE BLVD
PANAMA CITY BDEACH, FLORIDA 32407



VICINITY MAP
NOT TO SCALE

PREPARED BY:

McNEIL CARROLL ENGINEERING, INC.
17800 Panama City Beach Parkway
Panama City Beach, Florida 32413
Phone: 850-234-1730
Fax: 850-234-1731
Professional Engineering Consultants
STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 7288

PROJECT 1343.02B

INDEX OF SHEETS	SHEETS
SITE LAYOUT PLAN	1
SITE DRAINAGE PLAN	2
CONSTRUCTION DETAILS	3-4

Robert L Carroll
Digitally signed by Robert L Carroll
Date: 2022.06.10 14:20:06 -05'00'

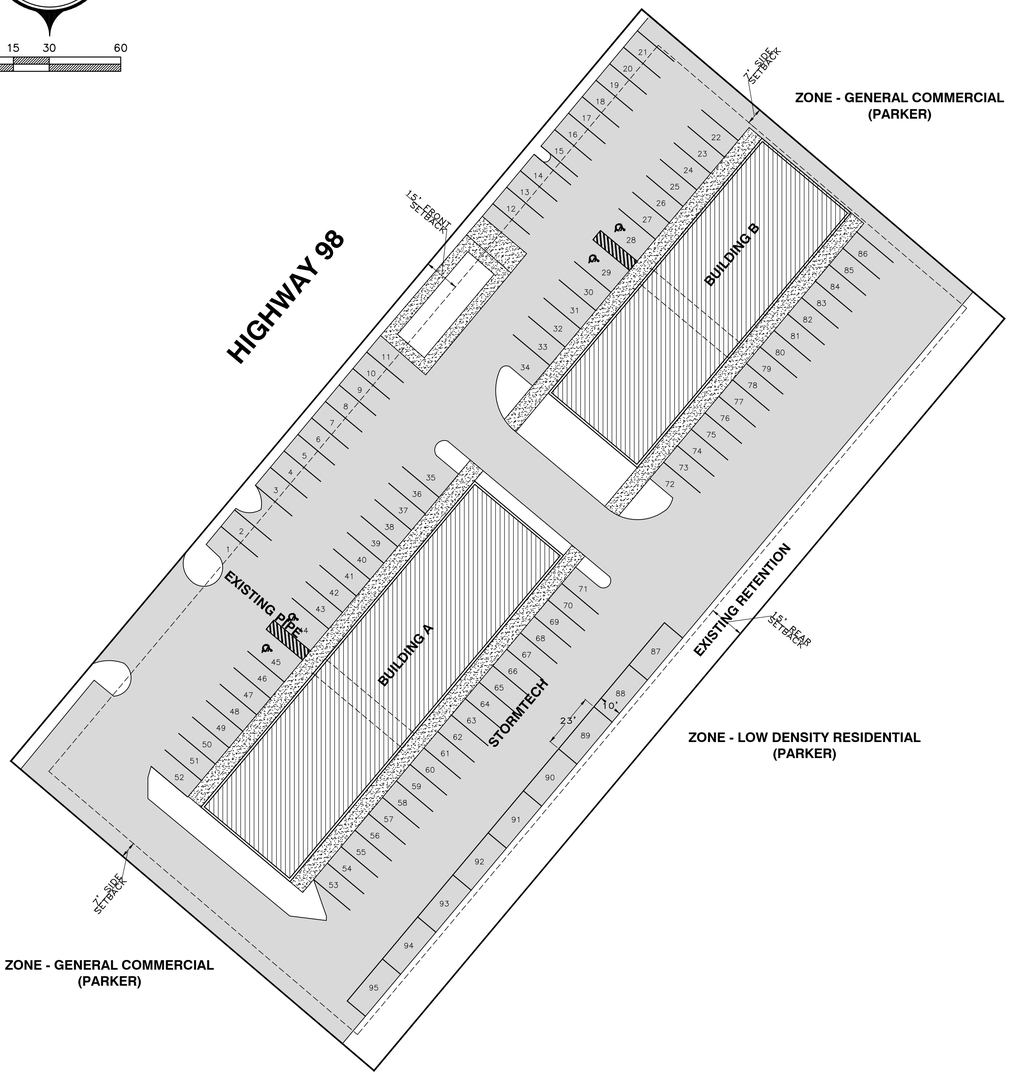
ROBERT L. CARROLL LICENSE No. 57988 STATE OF FLORIDA PROFESSIONAL ENGINEER
6/10/22

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY ROBERT L. CARROLL, PE ON DATE USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED WITHOUT THE DIGITAL COPY. THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES IN ACCORDANCE WITH RULE 61G15-23.004 F.A.C.

J:\MCN\CH_DWGS\CIVIL\PROJECTS\1343.02B - LA BRISA INN\DWG\1343.02B01.DWG 6/10/2022 11:52 AM
©MCNEIL CARROLL ENGINEERING, INC. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR UTILIZED IN ANY FORM WITHOUT PRIOR WRITTEN AUTHORIZATION OF MCNEIL CARROLL ENGINEERING, INC.

McNEIL CARROLL
SCALE
1" = 30'

0 15 30 60



SITE LAYOUT DRAWING NOTES:

1. ALL RADII AT FACE OF CURB ARE 5' UNLESS OTHERWISE SHOWN.
2. CONTRACTOR SHALL PROVIDE McNEIL CARROLL ENGINEERING, INC. FIVE (5) SETS OF AS-BUILT DRAWINGS AND ONE (1) DIGITAL COPY (AUTOCAD FORMAT) OF THE COMPLETED PROJECT. DRAWINGS SHALL BE PREPARED AND SIGNED & SEALED BY A FLORIDA REGISTERED SURVEYOR.
3. ALL DIMENSIONS AT CURB ARE FROM FACE OF CURB.
4. ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL CONDITION AND SODDED PER FDOT INDEX 105.
5. A COPY OF ALL REGULATORY PERMITS SHALL BE KEPT ON SITE.
6. THE CONTRACTOR SHALL REVIEW THE COMPLETE NWFWMD PERMIT PRIOR TO CONSTRUCTION COMMENCEMENT.
7. AN 8 1/2 x 11 NWFWMD WEATHER RESISTANT SIGN, INCLUDING THE PERMIT NUMBER SHALL BE PLACED ON THE PROPERTY FACING THE ROAD.
8. ALL PROPOSED UTILITIES TO BE PLACED UNDERGROUND.
9. ALL ABOVE GROUND UTILITIES TO BE SCREENED BY LANDSCAPING.

SYMBOL LEGEND

(DENOTES NEW "STOP" SIGN)

(DENOTES NEW "HANDICAP PARKING" SIGN)

∗ (DENOTES CRITICAL DIMENSION TO OUTSIDE FACE OF BUILDING)

BIKE (BIKE PARKING FOR 6 BICYCLES)
CSW (CONCRETE SIDEWALK – SEE CONSTRUCTION DETAILS)
CUF (F.D.O.T. CURB ie., TYPE F)
DE (DUMPSTER ENCLOSURE – SEE CONSTRUCTION DETAILS)
DS (DRAINAGE STRUCTURE – SEE GRADING & DRAINAGE PLAN)
DW (DETECTABLE WARNINGS – SEE CONSTRUCTION DETAILS)
FDOT (SEE F.D.O.T. CONNECTION PERMIT)
N|1 (SEE NOTE ie., #1 – SEE NOTES ON THIS SHEET)
RP (RAMP – SEE GRADING & DRAINAGE PLAN)
SA (SEE ARCH. PLANS)
SS (SEWER STRUCTURE – SEE UTILITY PLAN)
SWMF (STORM WATER MANAGEMENT FACILITY)
WF (WATER FIXTURE – SEE UTILITY PLAN)
WS (WHEEL STOP – SEE CONSTRUCTION DETAILS)

SITE DATA TABLE		
PARCEL ID: 25818-040-000		
GOVERNING ENTITY – PARKER, FLORIDA		
ZONING – GENERAL COMMERCIAL (PKR)		
TOTAL AREA OF SITE: 82,289 SQUARE FEET – 1.89 ACRES		
TOTAL BUILDING AREA: 15,477 SQUARE FEET – 0.36 ACRES (PER FLOOR) – 30,954 SF – 0.72 AC TOTAL		
FLOOD ZONES ON PROPERTY : X		
	ALLOWED/REQUIRED	PROPOSED
TOTAL IMPERVIOUS AREA	74,060 SQUARE FEET – 1.70 ACRES	69,972 SQUARE FEET – 1.61 ACRES
IMPERVIOUS SURFACE RATIO	90%	85%
FLOOR AREA RATIO	100%	38%
OPEN SPACE AREA	8,229 SQUARE FEET – 0.19 ACRES	12,317 SQUARE FEET – 0.28 ACRES
OPEN SPACE RATIO	10% MIN.	15%
FRONT YARD SETBACK	15 FEET	73.38 FEET
SIDE YARD SETBACK	7 FEET	7.99 FEET
REAR YARD SETBACK	15 FEET	77.88 FEET

PARKING SPACE SCHEDULE				
NO.	ANGLE	WIDTH	DEPTH	NOTES:
1–27	90°	9	20	
28	90°	12	20	W/ PASSENGERS SIDE 5' WIDE AISLE
29	90°	12	20	W/ DRIVERS SIDE 5' WIDE AISLE
30–43	90°	9	20	
44	90°	12	20	W/ PASSENGERS SIDE 5' WIDE AISLE
45	90°	12	20	W/ DRIVERS SIDE 5' WIDE AISLE
46–86	90°	9	20	
87–95	0°	10	23	

ALL PARKING STALLS SHALL BE 4" WHITE STRIPING ON ASPHALT AND 4" YELLOW ON CONCRETE. HANDICAP SIGNAGE AND STRIPING SHALL BE TO STATE AND CITY CODE. LANE SEPARATION LINES SHALL BE 6" WIDE.

REQUIRED PARKING CALCULATION			
PROPOSED USE	PARKING REQUIREMENT	SQUARE FOOTAGE/UNITS	SPACES REQUIRED
MOTEL	1 PER UNIT PLUS 1 PER 5 EMPLOYEES	94 UNITS	95
		TOTAL PARKING REQUIRED =	95
		TOTAL PARKING PROVIDED =	95

PERMIT PURPOSES ONLY

SITE LAYOUT PLAN
LA BRISA INN
5711 TYNDALL PARKWAY
PARKER, FLORIDA

SCALE: SHOWN
DESIGNED BY: RLC
DRAWN BY: WCK
REVIEWED BY: RLC
ISSUE DATE: 6/10/2022
CF/Dr 1343.02E01
NOT RELEASED FOR CONSTRUCTION BY: DATE:

McNEIL CARROLL ENGINEERING, INC.
Professional Engineering Consultants
17800 Panama City Beach Parkway
Panama City Beach, Florida 32413
Phone: 850-234-1730
Fax: 850-234-1731
STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 7288

NO.	DATE	BY	REVISIONS
01			
02			
03			
04			
05			

Sean D. McNeil, P.E.
PROFESSIONAL ENGINEER
FL LIC # 48303

Robert L. Carroll, P.E.
PROFESSIONAL ENGINEER
FL LIC # 57988

ROBERT L. CARROLL LICENSE No. 57988 STATE OF FLORIDA PROFESSIONAL ENGINEER
6/10/22

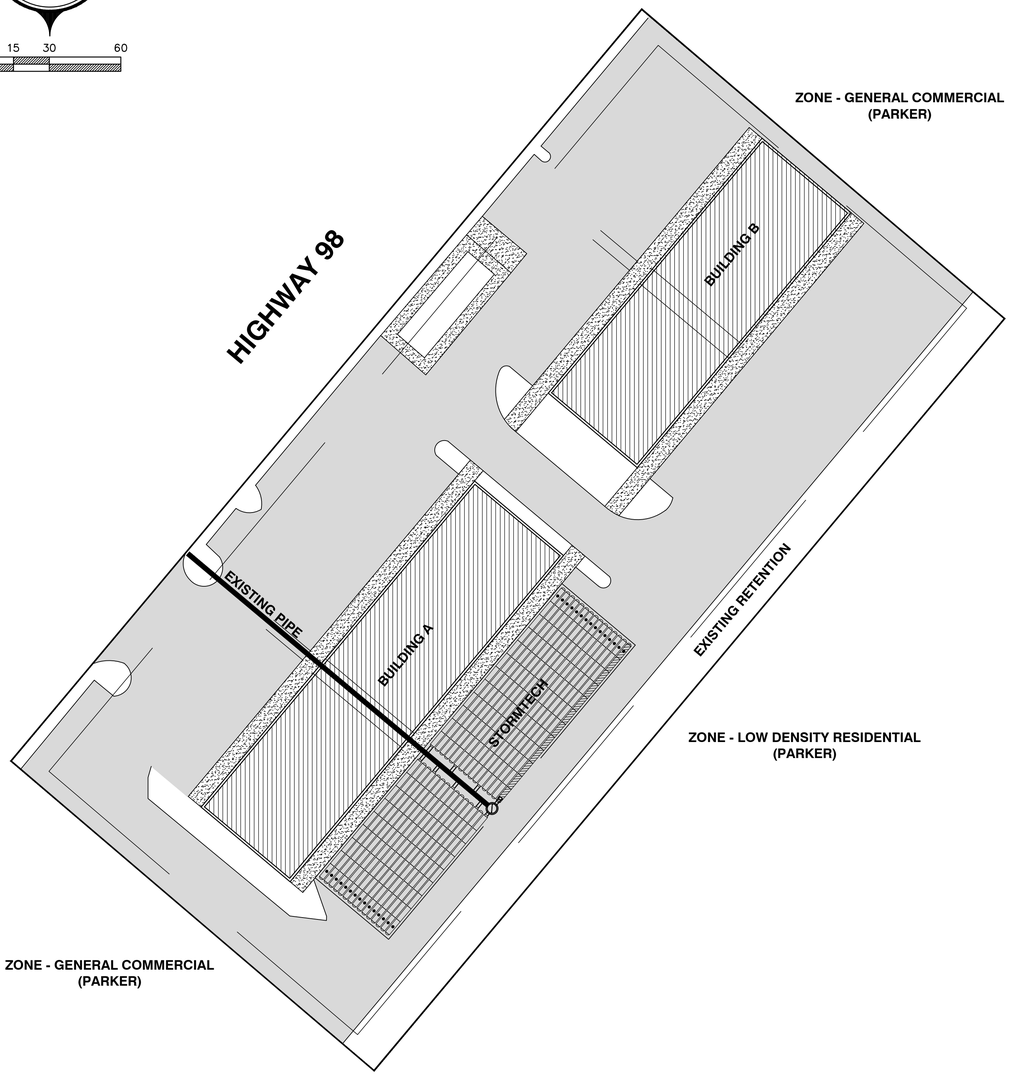
SHEET NUMBER 1 OF 4

1343.02B – LA BRISA INN

C:\MCNEIL SHARED\CIVIL PROJECTS\1343.02B - LA BRISA CIVIL\DWG\1343.02E01.DWG 6/10/2022 11:52 AM
© McNEIL CARROLL ENGINEERING, INC. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR UTILIZED IN ANY FORM WITHOUT PRIOR WRITTEN AUTHORIZATION OF McNEIL CARROLL ENGINEERING, INC.

McNEIL CARROLL
SCALE
1" = 30'

0 15 30 60



SITE GRADING AND DRAINAGE DRAWING NOTES:

1. SEE SYMBOL LEGEND ON THIS SHEET FOR SYMBOL INFORMATION AND REFERENCED DETAILS.
2. ALL DEMOLISHED MATERIALS (Ie., SIGNS, CONCRETE, ASPHALT, ETC...) TO BE REMOVED AND DISPOSED OF IN A LEGAL MANNER. ALL EXISTING MONITORING WELLS ARE NOT TO BE REMOVED. WELLS IN PAVEMENT SHALL HAVE A MANHOLE LID INSTALLED.
3. SEE SECTIONS IN CONSTRUCTION DETAILS.
4. ALL DRAINAGE PIPES TO BE DEDICATED TO THE CITY OF PANAMA CITY BEACH SHALL BE VIDEO RECORDED AND PLACED ON A DIGITAL MEDIA (NO TAPES). VIDEO MUST BE REVIEWED AND APPROVED BY THE CITY.
5. PROPOSED FINISHED FLOORS SHALL BE 1 FOOT (MIN.) ABOVE ROADWAY CENTERLINE.
6. CONTRACTOR SHALL PROVIDE McNEIL CARROLL ENGINEERING, INC. FIVE (5) SETS AND ONE (1) DIGITAL COPY (AUTOCAD FORMAT) OF AS-BUILT DRAWINGS OF THE COMPLETED PROJECT. DRAWINGS SHALL BE PREPARED AND SIGNED & SEALED BY A FLORIDA REGISTERED SURVEYOR.
7. IT IS THE CONTRACTORS RESPONSIBILITY TO CALL SUNSHINE ONE AT 811 FOR UTILITY LOCATES PRIOR TO CONSTRUCTION.
8. ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL CONDITION AND SODDED PER FDOT INDEX 105.

PERMIT PURPOSES ONLY

SITE DRAINAGE PLAN
LA BRISA INN
5711 TYNDALL PARKWAY
PARKER, FLORIDA

SCALE:	SHOWN
DESIGNED BY:	RLC
DRAWN BY:	WCK
REVIEWED BY:	RLC
ISSUE DATE:	6/10/2022
CF/Dr:	1343.02E01
NOT RELEASED FOR CONSTRUCTION	BY: DATE:

McNEIL CARROLL ENGINEERING, INC.
Professional Engineering Consultants
17800 Panama City Beach Parkway
Panama City Beach, Florida 32413
Phone: 850-234-1730
Fax: 850-234-1731
STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 7288

NO.	DATE	BY	REVISIONS
01			
02			
03			
04			
05			

Sean D. McNeil, P.E.
PROFESSIONAL ENGINEER
FL LIC # 48305

Robert L. Carroll, P.E.
PROFESSIONAL ENGINEER
FL LIC # 57988

ROBERT L. CARROLL LICENSE No. 57988 STATE OF FLORIDA PROFESSIONAL ENGINEER
6/10/22

SHEET NUMBER 2 OF 4

1343.02B - LA BRISA INN

C:\MCNEIL SHARED\CIVIL PROJECTS\1343.02B - LA BRISA INN\DWG\1343.02S01.DWG 6/10/2022 11:52 AM
©MANEIL CARROLL ENGINEERING, INC. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR UTILIZED IN ANY FORM WITHOUT PRIOR WRITTEN AUTHORIZATION OF MANEIL CARROLL ENGINEERING, INC.

Advanced Drainage Systems, Inc.

LA BRISA INN

PARKER, FLORIDA

McNEIL CARROLL

SCALE 1" = 1'

SC-310 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-160LP.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE OR POLYETHYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2922 (POLETHYLENE) OR ASTM F2418-16a (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2922 SHALL BE GREATER THAN OR EQUAL TO 400 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2922 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-160LP SYSTEM

1. STORMTECH SC-160LP CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH SC-160LP CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-160 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm).
8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH SC-160LP CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-160 CONSTRUCTION GUIDE".
2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-160 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-160LP CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-160LP CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

PROPOSED LAYOUT

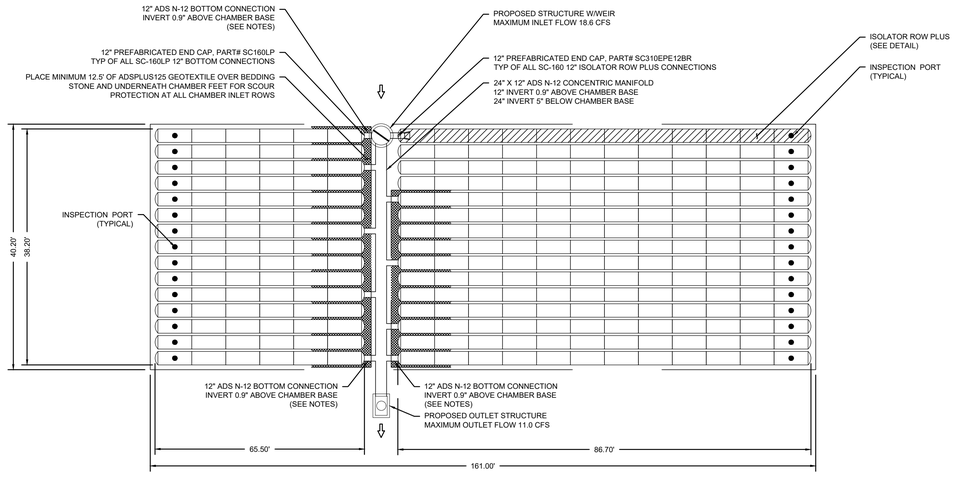
315	STORMTECH SC-160LP CHAMBERS
60	STORMTECH SC-310 END CAPS
6	STONE ABOVE (in)
4	STONE BELOW (in)
40	% STONE VOID
6043	**INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)**
6474	SYSTEM AREA (ft²)
402	SYSTEM PERIMETER (ft)

PROPOSED ELEVATIONS

108.83	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
100.50	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
100	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
100	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
100	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
99.33	TOP OF STONE
98.83	TOP OF SC-160LP CHAMBER
98.08	12" ISOLATOR ROW PLUS CONNECTION INVERT
98.08	12" BOTTOM CONNECTION INVERT
98.08	24" X 12" MANIFOLD INVERT (12" STUB)
97.83	BOTTOM OF SC-160LP CHAMBER
97.58	24" X 12" MANIFOLD INVERT (24" HEADER)
97.50	BOTTOM OF STONE

NOTES

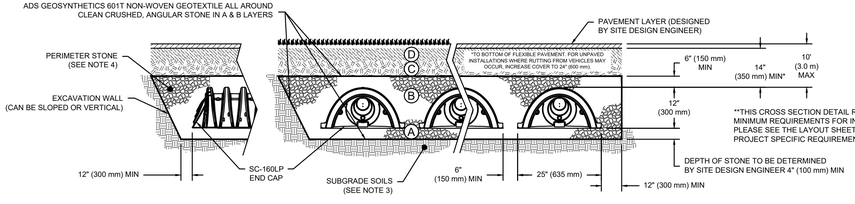
- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANIFOLD SIZING GUIDANCE.
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.



ACCEPTABLE FILL MATERIALS: STORMTECH SC-160LP CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2922 (POLETHYLENE) OR ASTM F2418-16a (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-160LP CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2922 SHALL BE GREATER THAN OR EQUAL TO 400 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

PERMIT PURPOSES ONLY

SITE GRADING PLAN
LA BRISA INN
5711 TYNDALL PARKWAY
PARKER, FLORIDA

SCALE: SHOWN
DESIGNED BY: RLC
DRAWN BY: WCK
REVIEWED BY: RLC
ISSUE DATE: 6/10/2022
c/p No. 1343.02E01
NOT RELEASED FOR CONSTRUCTION BY:
DATE:

McNEIL CARROLL ENGINEERING, INC.
Professional Engineering Consultants
17800 Panama City Beach Parkway
Panama City Beach, Florida 32413
Phone: 850-234-1730
Fax: 850-234-1731
STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 7288

NO.	DATE	BY	REVISIONS
01			
02			
03			
04			
05			

Sean D. McNeil, P.E.
PROFESSIONAL ENGINEER
FL LIC # 49303

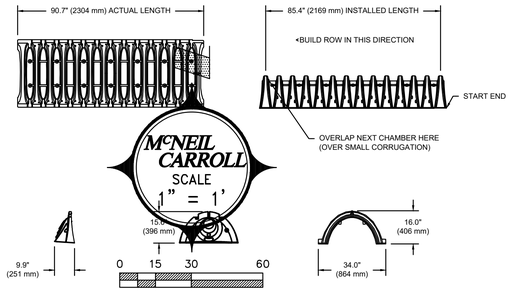
Robert L. Carroll, P.E.
PROFESSIONAL ENGINEER
FL LIC # 57988

ROBERT L. CARROLL LICENSE No. 57988 STATE OF FLORIDA PROFESSIONAL ENGINEER
6/10/22

SHEET NUMBER 3 OF 4

1.343.02B – LA BRISA INN

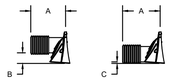
Z:\MCNEIL SHARED\VCH-PROJECTS\1343.02B – LA BRISA INN\DWG\1343.02C01.DWG 6/10/2022 11:52 AM
© MCNEIL CARROLL ENGINEERING, INC. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR UTILIZED IN ANY FORM WITHOUT PRIOR WRITTEN AUTHORIZATION OF MCNEIL CARROLL ENGINEERING, INC.



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	34.0" X 16.0" X 85.4"	(864 mm X 406 mm X 2169 mm)
CHAMBER STORAGE	14.7 CUBIC FEET	(0.42 m³)
MINIMUM INSTALLED STORAGE*	31.0 CUBIC FEET	(0.88 m³)
WEIGHT	35.0 lbs.	(16.8 kg)

*ASSUMES 6" (152 mm) ABOVE, BELOW, AND BETWEEN CHAMBERS



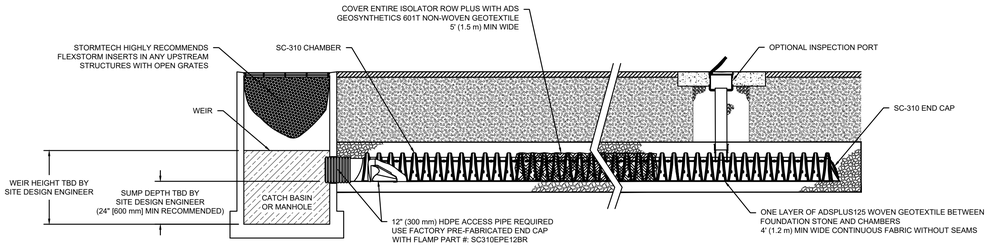
PRE-FAB STUB AT BOTTOM OF END CAP WITH FLAMP END WITH "BR"
PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
PRE CORED END CAPS END WITH "PC"

PART #	STUB	A	B	C
SC310EPE06T / SC310EPE06TPC	6" (150 mm)	9.6" (244 mm)	5.8" (147 mm)	---
SC310EPE06B / SC310EPE06BPC			---	0.5" (13 mm)
SC310EPE08T / SC310EPE08TPC	8" (200 mm)	11.9" (302 mm)	3.5" (89 mm)	---
SC310EPE08B / SC310EPE08BPC			---	0.6" (15 mm)
SC310EPE10T / SC310EPE10TPC	10" (250 mm)	12.7" (323 mm)	1.4" (36 mm)	---
SC310EPE10B / SC310EPE10BPC			---	0.7" (18 mm)
SC310EPE12B	12" (300 mm)	13.5" (343 mm)	---	0.9" (23 mm)
SC310EPE12BR	12" (300 mm)	13.5" (343 mm)	---	0.9" (23 mm)

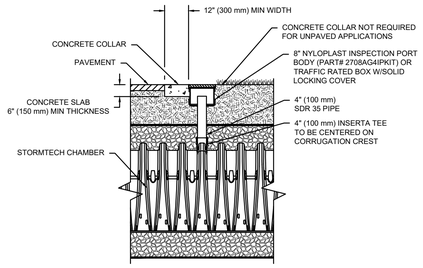
ALL STUBS, EXCEPT FOR THE SC310EPE12B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC310EPE12B THE 12" (300 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 0.25" (6 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL



SC-310 ISOLATOR ROW PLUS DETAIL
NTS



NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION CREST.

4" PVC INSPECTION PORT DETAIL
(SC SERIES CHAMBER)
NTS

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS.
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.

2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

PERMIT PURPOSES ONLY

CONSTRUCTION DETAILS
LA BRISA INN
5711 TYNDALL PARKWAY
PARKER, FLORIDA

SCALE: SHOWN
DESIGNED BY: RLC
DRAWN BY: WCK
REVIEWED BY: RLC
ISSUE DATE: 6/10/2022
CF/Dr: 1343.02E01
NOT RELEASED FOR CONSTRUCTION
BY:
DATE:

McNEIL CARROLL ENGINEERING, INC.
Professional Engineering Consultants
17800 Panama City Beach Parkway
Panama City Beach, Florida 32413
Phone: 850-234-1730
Fax: 850-234-1731
STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 7288

NO.	DATE	BY	REVISIONS
01			
02			
03			
04			
05			

Sean D. McNeil, P.E.
PROFESSIONAL ENGINEER
FL LIC # 48303

Robert L. Carroll, P.E.
PROFESSIONAL ENGINEER
FL LIC # 57988

ROBERT L. CARROLL LICENSE No. 57988 STATE OF FLORIDA PROFESSIONAL ENGINEER
6/10/22

SHEET NUMBER 4 OF 4

1343.02B – LA BRISA INN

C:\MCNEIL SHARED\LIVE PROJECTS\1343.02B - LA BRISA (SOUTH)\1343.02E01.DWG 6/10/2022 1:12:2 AM
© MANEIL CARROLL ENGINEERING, INC. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR UTILIZED IN ANY FORM WITHOUT PRIOR WRITTEN AUTHORIZATION OF MANEIL CARROLL ENGINEERING, INC.