

# A NEW CAR WASH FACILITY FOR TIDAL WAVE AUTOSPA

# 4300 Legendary Drive, Suite 234

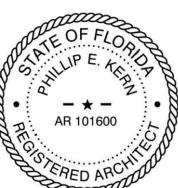
Destin, Florida 32541 T: 850.650.4353 F: 850.650.3881

Tidal Wave Auto Spa 3039 W US-90 Lake City, FL 32055

Columbia County PROTOTYPE DATE

SETUP DATE:

PROFESSIONAL OF RECORD:



electronically signed and sealed by Phillip Kern, NCARE using a Digital Signature and date. Printed copies of this signed and sealed and the signature must be verified on

all electronic copies



DESIGNER'S INFORMATION:



DRAWN BY:

**COVER SHEET** 

SHEET SCALE: SHEET NUMBER:

G00.0

NTS

# PROJECT DIRECTORY

#### **ARCHITECT**

KERN ARCHITECTS, LLC 11822 JUSTICE AVE., STE. B7 **BATON ROUGE, LA 70816** 225.263.8887

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#### STRUCTURAL ENGINEER

THOMPSON ENGINEERING

14635 S HARRELLS FERRY RD #4A **BATON ROUGE, LA 70816** 225.384.5260

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#### **MEP ENGINEER**

**AST ENGINEERS, INC.** 8417 KELWOOD AVE. **BATON ROUGE, LA 70806** 225.926.5600

**CONTACT: JORDAN FISH** JFISH@ASTENGINEERS.US

#### **CIVIL ENGINEER & LANDSCAPE**

ATLAS TECHNICAL CONSULTANTS **13215 BEE CAVE PARKWAY BLDG. B, STE. 230 AUSTIN, TX 78738** 225.964.0730 **CONTACT: BRANDON HEBRON** BRANDON.HEBRON@ONEATLAS.COM

#### **DEVELOPER**

**OLSON LAND PARTNERS** 4300 LEGENDARY DR, STE 234 **DESTIN, FL 32541** 850.650.4353

CONTACT: KORI BROUSSARD ph 225.454.2629 KORI@OLSONLANDPARTNERS.COM

# **CODE ANALYSIS**

CODE YEAR	FLORIDA BUILDING CODE 7th EDITION - 20	
OCCUPANCY CLASSIFICATION	(S1) STORAGE / (B) BUSINESS	
CONSTRUCTION TYPE:	VB / V (000)	
FIRE SPRINKLER:	NOT REQUIRED	
FIRE ALARM:	NOT REQUIRED	
HEIGHT:	12 FT EAVE (23 FT HIGHEST POINT)	
STORIES:	SINGLE STORY	
AREA:	ALLOWABLE (9,000 SF) / ACTUAL (3,120 SI	
OCCUPANT LOAD:	(5) REFER TO LIFE SAFETY PLAN	
NUMBER OF EXITS:	REFER TO LIFE SAFETY PLAN	
FIRE RESISTANCE RATINGS:		
FOR BUILDING ELEMENTS	NOT REQUIRED	
SEPARATION DISTANCE	NOT REQUIRED	
OPENING PROTECTIVES	NOT REQUIRED	

#### AREA SEPARATION NOT REQUIRED **USE SEPARATION** NOT REQUIRED FOR (S1) STORGE & (B)... ROOF MATERIAL CLASS ALLOWABLE (B) / PROVIDED (B)

TOOT WINTER OLITOR	/ (220 T/) (B) / 1 T(0 T/B LB (B)		
MIN. PLUMBING FIXTURES			
WATER CLOSETS	REQUIRED (1) / PROVIDED (1)		
LAVATORIES	REQUIRED (1) / PROVIDED (1)		
DRINKING FOUNTAINS	REQUIRED (1) / PROVIDED (1)		

#### SERVICE SINKS REQUIRED (0) / PROVIDED (0) WIND DESIGN CRITERIA - LARGE MISSLE IMPACT RATING NOT APPLICABLE

REFER TO STUCTURAL WIND VALUES FOR DESIGNS SHOWN ON STRUCTURAL SHEETS

REQUIRED (9' x 20') - 1 / 500 GFA 2

**DESIGN WIND SPEED** 

ALLOWABLE WIND SPEED	RE: STRUCTURAL
OCCUPANCY RISK CATEGORY	II
EXPOSURE CATEGORY	С
SITE DATA	
ZONING	CI
SITE AREA	3.25 ACRES
TOTAL IMPERVIOUS	RE: CIVIL
TOTAL PERVIOUS	RE: CIVIL

RE: STRUCTURAL

#### PARKING

PROVIDED	(3 STANDARD, 1 ADA) 4
REQUIRED STACKING	8
PROVIDED STACKING (FROM PAY KIOSK)	15

#### OIL & SAND INTERCEPTOR

JIL & SAND INTERCEPTOR	
REQUIRED CAPACITY PER PDI	464 GALLONS
PROVIDED	1500 GALLONS
PRESCRIPTIVE CALCULATION FOR AU	ITOMATIC CARWASH:
1.551 TUNNEL AREA * 0.02 FACILITY FA STORAGE FACTOR = 464 GALLONS	ACTOR * 7.48 CONVERSION FACTOR * 2.0

#### **RECLAIM / RECYCLED WATER SYSTEM**

RECLAIM WATER SYSTEM CONSISTS OF (3) 2000 GALLON TANKS. WATER IS COLLECTED FROM TUNNEL, RECYCLED AND RE-USED PRIOR TO DISCHARGE

TYPICAL WATER USUAGE IS GREATER THAN 2000 GALLONS PER DAY (MORE INFORMATION AVAILABLE ON REQUEST)

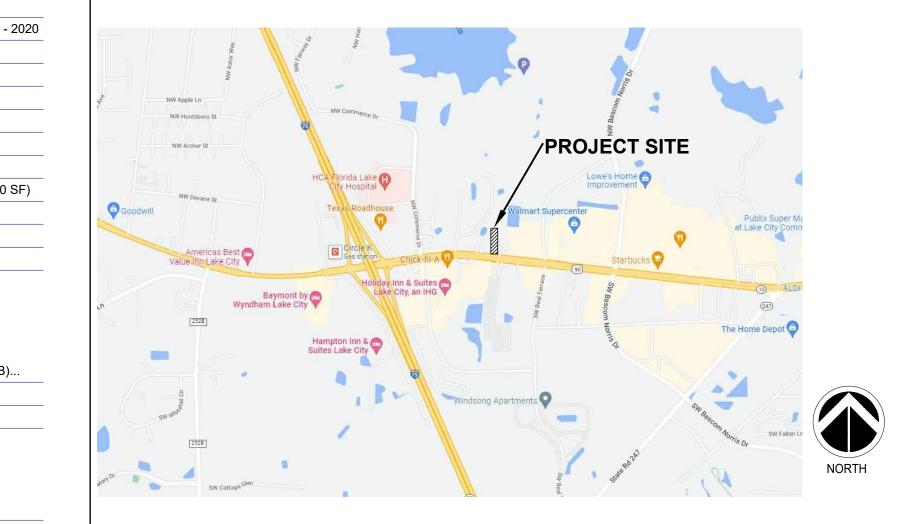
#### PER VEHICLE WATER VOLUME BREAKDOWN (GALLONS PER VEHICLE / GPV) TOTAL WATER VOLUME RECLAIM (RECYCLED) WATER -55 GPV SUBTOTAL 32 GPV - FRESH **EVAPORATION LOSS** -6 GPV - AVERAGE

#### FINISHED FLOOR ELEVATIONS

TOTAL WATER TO SEWER

WASH TUNNEL FFE:	157.5'
EQUIPMENT ROOM FFE:	157.5'

# **VICINITY MAP**



## PROJECT DESCRIPTION

NEW AUTOMATIC CAR WASH FACILITY w/ (1) WASH BAY. PRIMARY FACILITY IS CONSTRUCTED OF STRUCTURAL STEEL FRAMING w/ CMU BLOCK WALL INFILL w/ STANDING SEAM METAL ROOF.

- 1) SINGLE BAY VAC CANOPY (OPEN-AIR STRUCTURE w/ EXPOSED CMU BEARING WALLS, STICK-BUILT ROOF FRAMING & STANDING SEAM
- METAL ROOF) (1) STAND ALONE VACUUM SCREEN (1) STAND ALONE DUMPSTER SCREEN (PARTIALLY ENCLOSED STRUCTURE
- (2) FAST PASS READERS
- (1) TUNNEL EXIT STOP-GO LIGHT
- FLOOD AREAS: NO FLOOD AREAS IN PROJECT SCOPE
- NO WETLANDS IN PROJECT SCOPE <u>HISTORIC PRESERVATION:</u>

# **COLUMN GRID EXISTING CONTOUR TO REMAIN NEW CONTOUR EXISTING CONTOUR TO CHANGE** DRAWING NAME DRAWING NUMBER DRAWING NAME SCALE: 1/4" = 1'-0"

DRAWING SCALE

**EXIST ELEVATION NEW ELEVATION** SEMI-RECESSED FIRE **EXTINGUISHER CABINET** F.E.C. AND EXTINGUISHER WALL MOUNTED FIRE **EXTINGUISHER** WINDOW, STOREFRONT 101 DOOR DESIGNATION

**CURTAIN WALL DESIGNATION** (34) **KEY NOTE** 

**REVISION NUMBER** ROOM NAME NUMBER

DRAWING NUMBER —————21 SHEET NUMBER ———A7.2 DRAWING NUMBER —— 2 SHEET NUMBER —— A2.1 DRAWING NUMBER < SHEET NUMBER -

DRAWING NUMBER — 18 SHEET NUMBER A3.2

DRAWING NUMBER —\_\_\_\_4\_\_ **DETAIL SECTION** 

**ABBREVIATIONS** 

Fire Extinguisher Cabinet

Fire Hydrant

Miscellaneous

Not In Contract

On Center

OFF

SOUND

ATTENUATION `

PARTITION TYPE -

STUD SIZE ~

Outside Diameter

Opposite Hand

Mounted

Masonry Opening

Americans with Disablitites

Act Accessibility Guidlines

Bottom Of Stee

Control Joint

Ceiling

Clean Out

Concrete

Electric Hand Dryer

**Expansion Joint** 

Electric(al)

Emergency

Each Way

Fire Alarm

Floor Drain

Electric Water Cooler

Fire Annunciuator Panel

Exterior Insulation Finish

ARCH

BLDG

BOS

BOT

CLG

CLOS

CLR

CO

COL

CONC

CONT

CPT

DIM

**ELEC** 

**ELEV** 

EQ

**EQUIP** 

EXP. JT.

**EXST** 

EXT

FA

FD

OPG

**PLAS** 

REQD

**RESIL** 

SCHED

STL

STRUCT

UTIL

**VERT** 

**VWC** 

PLYWD

Opening

Radius

Roof Drain

Refrigerator

Required

Resilient

South

Scupper

Similar

Square Foot

Specification

Stainless Stee

Tongue & Groove

Unless Noted Otherwise

Vent Termination Ppipe

Vinyl Wall Covering

Standard

Structural

Tread

Thick

Top Of Top Of Steel

Typical

Vertical

Without

Wood

Weight

Window

Waterproof

Welded Wire Fabric

Watercloset

Verify In Field

Verify On Job

Rough Opening

Reflected Ceiling Plan

**ELEVATION** INTERIOR ELEVATION

**PARTITION TYPE** 

**EQUIPMENT NUMBER** 

- w/ CMU SCREEN WALLS & METAL GATE ASSEMBLY NOT COVERED)
- SHADE STRUCTURES / MISC: (2) SHADE CANOPIES OVER PAY KIOSKS
- (1) SHADE CANOPY AT VEHICLE WASH PREP AREA
- FREE-STANDING SELF-SERVICE BOOM VACS
- (2) PAY KIOSKS
- (2) ELECTRONIC GATES
- (2) FOUNDATIONS FOR MENU BOARDS
- NO HISTORIC PRESERVATION IN PROJECT SCOPE ENDANGERED SPECIES:

  NO ENDANGERED SPECIES IN PROJECT SCOPE

# **SYMBOLS**

Г	KEY	DISCIPLINE	NUM	CURRENT	TITLE	FOR	FOR	FOR	REMARKS
-				SHEET DATE		PERMIT	BID	CONST.	ILLIMATIOS
-		GENERAL GENERAL	G0.00 G0.01	22-0310 22-0310	COVER SHEET SHEET INDEX	22-0310 22-0310			
-		GENERAL	G2.00	22-0310	CODE COMPLIANCE	22-0310			
	1	GENERAL	G3.01	22-0310	ADA GUIDELINES	22-0310			
	1	GENERAL	G3.02	22-0310	ADA GUIDELINES	22-0310			
		GENERAL	G4.00	22-0310	WASH TUNNEL LIFE SAFETY PLAN	22-0310			
-		SITE	C0.1	22-0304	SURVEY	22-0304			
-		SITE	C0.00 C0.01	22-0304	COVER  ABREVIATIONS & LEGEND	22-0304 22-0304			
		SITE	C0.01	22-0304	GENERAL NOTES & REFERENCES	22-0304			
		SITE	C0.03	22-0304	EROSION CONTROL & SWPPP NOTES	22-0304			
	2	SITE	C0.04	22-0304	EXISTING CONDITIONS PLAN	22-0304			
	2	SITE	C1.01	22-0304	DEMOLITION PLAN	22-0304			
		SITE	C2.01	22-0304	SITE PLAN	22-0304			
		SITE	C3.01	22-0304	GRADING & DRAINAGE PLAN	22-0304			
-		SITE	C4.01	22-0304	DRAINAGE MAP	22-0304			
-		SITE	C5.01 C6.01	22-0304	PROFILES-STORM PIPE	22-0304 22-0304			
		SITE	C6.02	22-0304	PROFILES- SANITARY PIPE	22-0304			
	2	SITE	C7.01	22-0304	EROSION CONTROL & SWPPP	22-0304			
	2	SITE	C8.01	22-0304	DETAILS - SITE	22-0304			
		SITE	C8.02	22-0304	DETAILS - SITE	22-0304			
-		SITE	C8.03	22-0304	DETAILS - SITE	22-0304			
-		SITE	C8.04 C9.01	22-0304	DETAILS - SITE  DETAILS - UTILITY	22-0304			
-		SITE	C10.01	22-0304	DETAILS - OTIETY  DETAILS - GRADING & DRAINAGE	22-0304 22-0304			
		SITE	C10.02	22-0304	DETAILS - GRADING & DRAINAGE	22-0304			
		SITE	C11.01	22-0304	DETAILS - EROSION	22-0304			
	2	SITE	C11.02	22-0304	DETAILS - EROSION	22-0304			
	2	SITE	C11.03	22-0304	DETAILS - EROSION	22-0304			
	3	ARCHITECTURAL	A01.00	22-0310	WASH TUNNEL KEYNOTE FLOORPLAN	22-0310			
	3	ARCHITECTURAL	A02.1	22-0310	DOOR PACKAGE	22-0310			
-	3	ARCHITECTURAL ARCHITECTURAL	A02.14 A02.2	22-0310 22-0310	FINISH SCHEDULE OH DOORS	22-0310 22-0310			
		ARCHITECTURAL	A02.2	22-0310	STOREFRONT	22-0310			
	3	ARCHITECTURAL	A04.10	22-0310	WASH TUNNEL EXTERIOR ELEVATIONS	22-0310			
	3	ARCHITECTURAL	A04.20	22-0310	WASH TUNNEL EXTERIOR ELEVATIONS COLOR	22-0310			
	3	ARCHITECTURAL	A05.10	22-0310	WASH TUNNEL ENLARGED INTERIORS	22-0310			
	3	ARCHITECTURAL	A06.10	22-0310	WASH TUNNEL BUILDING SECTIONS	22-0310			
		ARCHITECTURAL	A06.11	22-0310	WASH TUNNEL BUILDING SECTIONS	22-0310			
-	3	ARCHITECTURAL	A06.12	22-0310	WASH TUNNEL BUILDING SECTIONS	22-0310			
-	3	ARCHITECTURAL ARCHITECTURAL	A07.10 A08.01	22-0310 22-0310	WASH TUNNEL WALL SECTIONS  WASH TUNNEL DETAILS	22-0310 22-0310			
-		ARCHITECTURAL	A09.00	22-0310	WASH TUNNEL REFLECTED CEILING PLAN	22-0310			
	3	ARCHITECTURAL	A10.10	22-0310	WASH TUNNEL ROOF PLAN	22-0310			
	3	ARCHITECTURAL	AV2.1	22-0310	DOUBLE VAC CANOPY	22-0310			
	3	ARCHITECTURAL	AV3.2	22-0310	VAC HOUSE 2-MOTOR NO VENDING	22-0310			
		ARCHITECTURAL	AV3.4	22-0310	VAC HOUSE 3-MOTOR LONG	22-0310			
	3	ARCHITECTURAL ARCHITECTURAL	AX1.1 AX1.2	22-0310 22-0310	PAY ISLANDS PAY KIOSK	22-0310 22-0310			
		ARCHITECTURAL	AX3.3	22-0310	FRONT ENTRY RIGHT SIDED DUMPSTER	22-0310			
		STRUCTURAL	SN0.01	22-0311	GENERAL NOTES	22-0311			
	4	STRUCTURAL	SN0.02	22-0311	COMPONENTS & CLADDING WIND DIAGRAMS & TABLES	22-0311			
	4	STRUCTURAL	SN0.03	22-0311	ABBREVIATIONS & SCHEDULES	22-0311			
		STRUCTURAL	ST1.00	22-0311	SLAB LEVEL KEYNOTE PLAN	22-0311			
		STRUCTURAL	ST1.10	22-0311	FOUNDATION & TRENCH BOTTOM PLAN	22-0311			
		STRUCTURAL STRUCTURAL	ST1.12 ST1.30	22-0311	ANCHOR BOLT & COLUMN PLAN  BELOW SLAB CMU PLAN	22-0311 22-0311			
-		STRUCTURAL	ST1.40	22-0311	TRENCH SLOPE (TOPPER) PLAN	22-0311			
		STRUCTURAL	ST1.50	22-0311	SLAB PLAN	22-0311			
	4	STRUCTURAL	ST1.51	22-0311	SLAB LEAVE OUT PLAN	22-0311			
	4	STRUCTURAL	ST1.60	22-0311	WASH TUNNEL FOUNDATION & SLAB SECTIONS & DETAILS	22-0311			
		STRUCTURAL	ST1.61	22-0311	WASH TUNNEL FOUNDATION & SLAB SECTIONS & DETAILS	22-0311			
		STRUCTURAL	ST1.62	22-0311	WASH TUNNEL FOUNDATION & SLAB SECTIONS & DETAILS	22-0311			
		STRUCTURAL STRUCTURAL	ST1.63 ST1.64	22-0311	WASH TUNNEL SLAB & TRENCH SECTIONS & DETAILS  WASH TUNNEL FOUNDATION & SLAB LEAVE OUT SECTIONS & DETAILS	22-0311 22-0311			
-		STRUCTURAL	ST1.65	22-0311	WASH TUNNEL FOUNDATION & SLAB LEAVE OUT SECTIONS & DETAILS  WASH TUNNEL FOUNDATION & SLAB LEAVE OUT SECTIONS & DETAILS	22-0311			
-		STRUCTURAL	ST1.66	22-0311	WASH TUNNEL FOUNDATION & SLAB LEAVE OUT SECTIONS & DETAILS	22-0311			
	4	STRUCTURAL	ST1.67	22-0311	WASH TUNNEL FOUNDATION & SLAB LEAVE OUT SECTIONS & DETAILS	22-0311			
		STRUCTURAL	ST2.00	22-0311	ABOVE SLAB CMU WALL PLAN	22-0311			
-		STRUCTURAL	ST2.10	22-0311	WASH TUNNEL STEEL FRAMING ELEVATIONS	22-0311			
-		STRUCTURAL STRUCTURAL	ST2.11 ST2.20	22-0311	WASH TUNNEL STEEL FRAMING DETAILS	22-0311 22-0311			
-		STRUCTURAL	ST2.21	22-0311	WASH TUNNEL CMU WALL ELEVATIONS  WASH TUNNEL CMU WALL ELEVATIONS	22-0311			
-		STRUCTURAL	ST2.22	22-0311	WASH TUNNEL CMU WALL ELEVATIONS	22-0311			
-		STRUCTURAL	ST2.23	22-0311	WASH TUNNEL CMU WALL ELEVATIONS	22-0311			
	4	STRUCTURAL	ST2.24	22-0311	WASH TUNNEL CMU WALL ELEVATIONS	22-0311			
		STRUCTURAL	ST3.00	22-0311	ROOF LEVEL KEYNOTE PLAN	22-0311			
		STRUCTURAL	ST3.10	22-0311	ROOF STEEL FRAMING PLAN	22-0311			
-		STRUCTURAL STRUCTURAL	ST3.11 ST3.20	22-0311	OPERATOR BOOTH ROOF FRAMING PLAN & SECTIONS  ROOF PURLIN PLAN	22-0311 22-0311			
		STRUCTURAL	ST3.30	22-0311	WASH TUNNEL TRUSS ELEVATIONS	22-0311			
		STRUCTURAL	ST3.40	22-0311	WASH TUNNEL ROOF SECTIONS & DETAILS	22-0311			
	4	STRUCTURAL	ST3.41	22-0311	WASH TUNNEL ROOF SECTIONS & DETAILS	22-0311			
		STRUCTURAL	SV1.00	22-0311	VAC CANOPY -SINGLEFOUNDATIONPLAN	22-0311			
-		STRUCTURAL	SV1.01	22-0311	VAC CANOPY -SINGLE STEEL FRAMING PLAN	22-0311			
		STRUCTURAL	SV1.02	22-0311	VAC CANOPY -SINGLE COLD FORM PURLIN PLAN  VAC CANOPY -SINGLE STEEL FRAMING ELEVATION	22-0311			
		STRUCTURAL STRUCTURAL	SV1.03 SV3.00	22-0311	VAC CANOPY -SINGLE STEEL FRAMING ELEVATION  VAC CANOPY -FOUNDATIONSECTIONS & DETAILS	22-0311 22-0311			
		STRUCTURAL	SV3.10	22-0311	VAC CANOPY -ROOF SECTIONS & DETAILS  VAC CANOPY -ROOF SECTIONS & DETAILS	22-0311			
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KEY	DISCIPLINE	NUM	CURRENT SHEET DATE	TITLE	FOR PERMIT	FOR BID	FOR CONST.	REMARKS
4	STRUCTURAL	SV3.20	22-0311	VAC CANOPY -SINGLE TRUSS ELEVATIONS	22-0311			
4	STRUCTURAL	SV3.30	22-0311	VAC CANOPY -PURLIN DETAILS	22-0311			
4	STRUCTURAL	SX1.00	22-0311	VAC HOUSE -FOUNDATION & WALL PLAN & SECTIONS	22-0311			
4	STRUCTURAL	SX1.01	22-0311	VAC HOUSE -ROOF PLAN & SECTIONS	22-0311			
4	STRUCTURAL	SX1.50	22-0311	VAC HOUSE -FOUNDATION & WALL PLAN & SECTIONS	22-0311			
4	STRUCTURAL	SX1.52	22-0311	VAC HOUSE -ROOF PLAN	22-0311			
4	STRUCTURAL	SX2.00	22-0311	DUMPSTER -FOUNDATION PLAN & DETAILS	22-0311			
4	STRUCTURAL	SX2.01	22-0311	DUMPSTER -CMU PLAN, SECTIONS & DETAILS	22-0311			
4	STRUCTURAL	SX2.02	22-0311	DUMPSTER -STEEL GATE & RAILING	22-0311			
4	STRUCTURAL	SX3.00	22-0311	PAY ISLAND -FOUNDATION PLAN SECTIONS & DETAILS	22-0311			
4	STRUCTURAL	SX3.01	22-0311	PAY ISLAND -FOUNDATIONSECTIONS & DETAILS	22-0311			
4	STRUCTURAL	SX4.00	22-0311	PREP CANOPY -PLAN AND DETAILS	22-0311			
4	STRUCTURAL	SX5.00	22-0311	MISC. STRUCTURAL ELEMENTS	22-0311			
5	MECHANICAL	M1.01	22-0228	HVAC FLOOR PLAN	22-0228			
5	MECHANICAL	M2.01	22-0228	HVAC SCHEDULE & DETAILS	22-0228			
6	PLUMBING	P1.01	22-0228	PLUMBING FLOOR PLAN	22-0228			
6	PLUMBING	P2.01	22-0228	PLUMBING DETAILS	22-0228			
6	PLUMBING	P2.02	22-0228	PLUMBING DETAILS	22-0228			
7	ELECTRICAL	E0.00	22-0301	ELECTRICAL SPECIFICATIONS	22-0301			
7	ELECTRICAL	E0.01	22-0301	ELECTRICAL SITE PLAN & SYMBOLS	22-0301			
7	ELECTRICAL	E0.02	22-0301	CAMERA SITE PLAN	22-0301			
7	ELECTRICAL	E1.01	22-0301	ELECTRICAL FLOOR PLANS	22-0301			
7	ELECTRICAL	E1.02	22-0301	CONTROL FLOOR PLAN	22-0301			
7	ELECTRICAL	E2.01	22-0301	ELECTRICAL RISER AND DETAILS	22-0301			
7	ELECTRICAL	E2.02	22-0301	LIGHT FIXTURE SCHEDULE & PHOTOMETRIC SITE PLAN	22-0301			
7	ELECTRICAL	E2.03	22-0301	PANEL BOARD SCHEDULES	22-0301			
7	ELECTRICAL	P2.01	22-0301	PLUMBING SCHEDULE AND NOTES	22-0301			
7	ELECTRICAL	P2.02	22-0301	PLUMBING DETAILS	22-0301			
7	ELECTRICAL	E0.00	22-0301	ELECTRICAL SPECIFICATIONS	22-0301			
7	ELECTRICAL	E0.01	22-0301	ELECTRICAL SITE PLAN AND SYMBOLS	22-0301			
7	ELECTRICAL	E0.02	22-0301	CAMERA SITE PLAN	22-0301			
7	ELECTRICAL	E1.01	22-0301	ELECTRICAL FLOOR PLANS	22-0301			
7	ELECTRICAL	E1.02	22-0301	CONTROL FLOOR PLAN	22-0301			
7	ELECTRICAL	E2.01	22-0301	ELECTRICAL RISER AND DETAILS	22-0301			
7	ELECTRICAL	E2.02	22-0301	LIGHTING FIXTURE SCHEDULE AND PHOTOMETRIC PLAN	22-0301			
7	ELECTRICAL	E2.03	22-0301	PANELBOARD SCHEDULES	22-0301			



Real Estate Acquisitions & Development 4300 Legendary Drive, Suite 234 Destin, Florida 32541 T: 850.650.4353 F: 850.650.3881



Tidal Wave Auto Spa 3039 W US-90 Lake City, FL 32055 Columbia County

PROTOTYPE DATE	22-0205
11101011125/1121	22-0203
SETUP DATE:	22-0205

SET NAME:

SET DATE:

PROFESSIONAL OF RECORD:



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electronically signed and
sealed by Phillip Kern, NCARB
using a Digital Signature and
date. Printed copies of this document are not considered signed and sealed and the signature must be verified on all electronic copies

DESIGNER'S INFORMATION:



SHEET DATE	<u>:</u>	22-0310
SHEET REVI		
▲ DATE:	DESCRIPTION:	

DRAWN BY:

SHEET INDEX

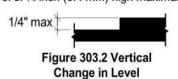
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G00.1

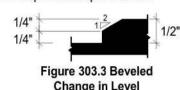
SHEET SCALE:

#### 303 Changes in Level

303.2 Vertical. Changes in level of 1/4 inch (6.4 mm) high maximum shall be permitted to be vertical



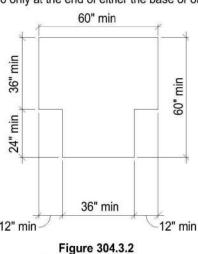
303.3 Beveled. Changes in level between ¼ inch (6.4 mm) high minimum and ½ inch (13 mm) high maximum shall be beveled with a slope not steeper than 1:2.



#### 304 Turning Space

304.3.1 Circular Space. The turning space shall be a space of 60 inches (1525 mm) diameter minimum. The space shall be permitted to include knee and toe clearance complying with 306.

304.3.2 T-Shaped Space. The turning space shall be a T-shaped space within a 60 inch (1525 mm) square minimum with arms and base 36 inches (915 mm) wide minimum. Each arm of the T shall be 308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48 clear of obstructions 12 inches (305 mm) minimum in each direction and the base shall be clear of inches (1220 mm) maximum and the low forward reach shall be 15 inches (380 mm) minimum above obstructions 24 inches (610 mm) minimum. The space shall be permitted to include knee and toe the finish floor or ground. clearance complying with 306 only at the end of either the base or one arm.



#### 305 Clear Floor or Ground Space

305.7.1 Forward Approach. Alcoves shall be 36 inches (915 mm)wide minimum where the depth exceeds 24 inches (610 mm).

T-Shaped Turning Space

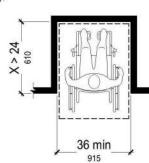
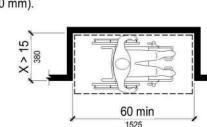


Figure 305.7.1 Maneuvering Clearance in an Alcove, Forward Approach 305.7.2 Parallel Approach. Alcoves shall be 60 inches (1525 mm) wide minimum where the depth exceeds 15 inches (380 mm).



#### Figure 305.7.2 Maneuvering Clearance in an Alcove, Parallel Approach

306 Knee and Toe Clearance

#### 306.2 Toe Clearance.

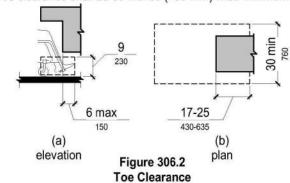
306.2.1 General. Space under an element between the finish floor or ground and 9 inches (230 mm) mm) maximum. Where the reach depth exceeds 10 inches (255 mm), the high side reach shall be above the finish floor or ground shall be considered toe clearance and shall comply with 306.2.

306.2.2 Maximum Depth. Toe clearance shall extend 25 inches (635 mm) maximum under an

306.2.3 Minimum Required Depth. Where toe clearance is required at an element as part of a clear floor space, the toe clearance shall extend 17 inches (430 mm) minimum under the element.

306.2.4 Additional Clearance. Space extending greater than 6 inches (150 mm) beyond the available knee clearance at 9 inches (230 mm) above the finish floor or ground shall not be considered toe clearance.

#### 306.2.5 Width. Toe clearance shall be 30 inches (760 mm) wide minimum.



#### 306.3 Knee Clearance.

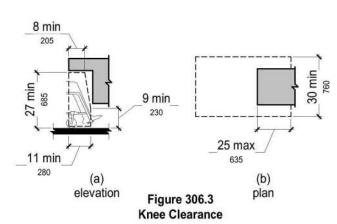
306.3.1 General. Space under an element between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground shall be considered knee clearance and shall comply with 306.3.

306.3.2 Maximum Depth. Knee clearance shall extend 25 inches (635 mm) maximum under an element at 9 inches (230 mm) above the finish floor or ground.

306.3.3 Minimum Required Depth. Where knee clearance is required under an element as part of than 1:20, see 403.3. Other components of accessible routes, such as ramps (405) and a clear floor space, the knee clearance shall be 11 inches (280 mm) deep minimum at 9 inches (230 curb ramps (406), are permitted to be more steeply sloped. mm) above the finish floor or ground, and 8 inches (205 mm) deep minimum at 27 inches (685 mm) above the finish floor or ground.

306.3.4 Clearance Reduction. Between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground, the knee clearance shall be permitted to reduce at a rate of 1 inch (25 mm) in depth for each 6 inches (150 mm) in height.

306.3.5 Width. Knee clearance shall be 30 inches (760 mm) wide minimum.

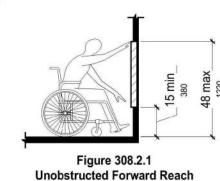


#### 307 Protruding Objects

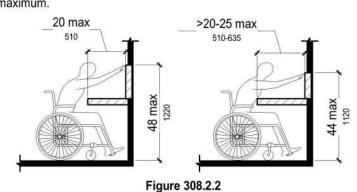
307.2 Protrusion Limits. Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall protrude 4 inches (100 mm) maximum horizontally into the circulation path. **EXCEPTION:** Handrails shall be permitted to protrude 4½ inches (115 mm) maximum.

#### 308 Reach Ranges

#### 308.2 Forward Reach.



308.2.2 Obstructed High Reach. Where a high forward reach is over an obstruction, the clear floor space shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48 inches (1220 mm) maximum where the reach depth is 20 inches (510 mm) maximum. Where the reach depth exceeds 20 inches (510 mm), the high forward reach shall be 44 inches (1120 mm) maximum and the reach depth shall be 25 inches (635 mm) maximum.



**Obstructed High Forward Reach** 

#### 308.3 Side Reach.

**308.3.1 Unobstructed.** Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48 inches (1220 mm) maximum and the low side reach shall be 15 inches (380 mm) minimum above the finish floor or

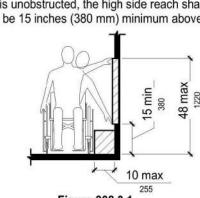
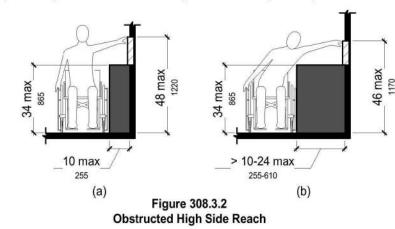


Figure 308.3.1 Unobstructed Side Reach

46 inches (1170 mm) maximum for a reach depth of 24 inches (610 mm) maximum.

308.3.2 Obstructed High Reach. Where a clear floor or ground space allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34 inches (865 mm) maximum and the depth of the obstruction shall be 24 inches (610 mm) maximum. The high side reach shall be 48 inches (1220 mm) maximum for a reach depth of 10 inches (255



#### 309 Operable Parts

309.2 Clear Floor Space. A clear floor or ground space complying with 305 shall be provided.

309.3 Height. Operable parts shall be placed within one or more of the reach ranges specified in 308.

309.4 Operation. Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds (22.2 N)

#### **CHAPTER 4: ACCESSIBLE ROUTES**

402.2 Components. Accessible routes shall consist of one or more of the following components: walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps excluding the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

Advisory 402.2 Components. Walking surfaces must have running slopes not steeper

#### 403 Walking Surfaces

**403.1 General.** Walking surfaces that are a part of an accessible route shall comply with 403.

403.2 Floor or Ground Surface. Floor or ground surfaces shall comply with 302.

403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.

403.4 Changes in Level. Changes in level shall comply with 303.

403.5 Clearances. Walking surfaces shall provide clearances complying with 403.5. **EXCEPTION:** Within employee work areas, clearances on common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being performed.

403.5.1 Clear Width. Except as provided in 403.5.2 and 403.5.3, the clear width of walking surfaces shall be 36 inches (915 mm) minimum.

**EXCEPTION:** The clear width shall be permitted to be reduced to 32 inches (815 mm) minimum for a length of 24 inches (610 mm) maximum provided that reduced width segments are separated by segments that are 48 inches (1220 mm) long minimum and 36 inches (915 mm) wide minimum.

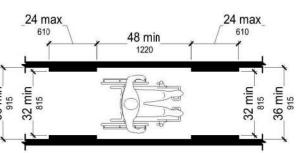
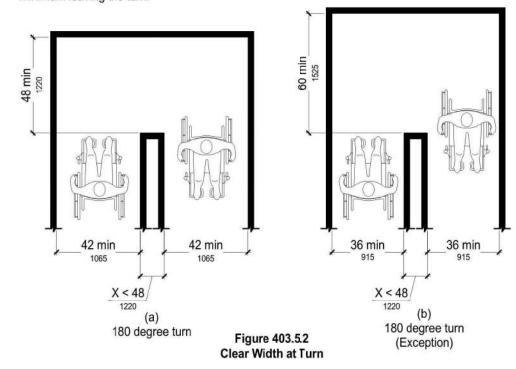


Figure 403.5.1 Clear Width of an Accessible Route

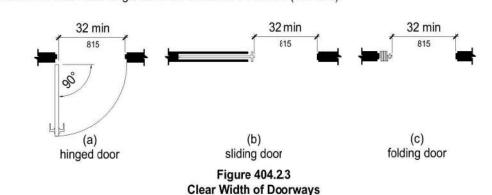
403.5.2 Clear Width at Turn. Where the accessible route makes a 180 degree turn around an element which is less than 48 inches (1220 mm) wide, dear width shall be 42 inches (1065 mm) minimum approaching the turn, 48 inches (1220 mm) minimum at the turn and 42 inches (1065 mm) minimum leaving the turn.



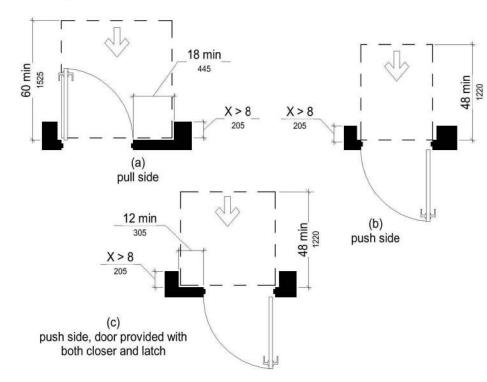
403.5.3 Passing Spaces. An accessible route with a clear width less than 60 inches (1525 mm) shall provide passing spaces at intervals of 200 feet (61 m) maximum. Passing spaces shall be either: a space 60 inches (1525 mm) minimum by 60 inches (1525 mm) minimum; or, an intersection of two walking surfaces providing a T-shaped space complying with 304.3.2 where the base and arms of the T-shaped space extend 48 inches (1220 mm) minimum beyond the intersection.

#### 404 Doors, Doorways, and Gates

**404.2.3 Clear Width.** Door openings shall provide a clear width of 32 inches (815 mm) minimum. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24 inches (610 mm) deep shall provide a clear opening of 36 inches (915 mm) minimum. There shall be no projections into the required clear opening width lower than 34 inches (865 mm) above the finish floor or ground. Projections into the clear opening width between 34 inches (865 mm) and 80 inches (2030 mm) above the finish floor or ground shall not exceed 4 inches (100 mm).



404.2.4.3 Recessed Doors and Gates. Maneuvering dearances for forward approach shall be provided when any obstruction within 18 inches (455 mm) of the latch side of a doorway projects more than 8 inches (205 mm) beyond the face of the door, measured perpendicular to the face of



#### Figure 404.2.4.3 Maneuvering Clearances at Recessed Doors and Gates

404.2.7 Door and Gate Hardware. Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 309.4. Operable parts of such hardware shall be 34 inches (865 mm) minimum and 48 inches (1220 mm) maximum above the finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.

**404.2.8.1 Door Closers and Gate Closers.** Door closers and gate closers shall be adjusted so that from an open position of 90 degrees, the time required to move the door to a position of 12 degrees from the latch is 5 seconds minimum.

**404.2.8.2 Spring Hinges.** Door and gate spring hinges shall be adjusted so that from the open position of 70 degrees, the door or gate shall move to the closed position in 1.5 seconds

**404.2.9 Door and Gate Opening Force.** Fire doors shall have a minimum opening force

by the appropriate administrative authority. The force for pushing or pulling open a door or gate other than fire doors shall be as follows:

1. Interior hinged doors and gates: 5 pounds (22.2 N) maximum.

2. Sliding or folding doors: 5 pounds (22.2 N) maximum.

These forces do not apply to the force required to retract latch bolts or disengage other devices hold the door or gate in a closed position.

404.2.10 Door and Gate Surfaces. Swinging door and gate surfaces within 10 inches (255 mm)

the finish floor or ground measured vertically shall have a smooth surface on the push side the full width of the door or gate. Parts creating horizontal or vertical joints in these surfaces shall

within 1/16 inch (1.6 mm) of the same plane as the other. Cavities created by added kick plates be capped.

404.2.11 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one more glazing panels that permit viewing through the panels shall have the bottom of at least one

glazed panel located 43 inches (1090 mm) maximum above the finish floor. 404.3 Automatic and Power-Assisted Doors and Gates. Automatic doors and automatic

comply with 404.3. Full-powered automatic doors shall comply with ANSI/BHMA A156.10 (incorporated by reference, see "Referenced Standards" in Chapter 1). Low-energy and powerassisted doors shall comply with ANSI/BHMA A156.19 (1997 or 2002 edition) (incorporated by reference, see "Referenced

**404.3.2 Maneuvering Clearance.** Clearances at power-assisted doors and gates shall comply

404.2.4. Clearances at automatic doors and gates without standby power and serving an means of egress shall comply with 404.2.4.

404.3.7 Revolving Doors, Revolving Gates, and Turnstiles. Revolving doors, revolving gates, and turnstiles shall not be part of an accessible route.

Standards" in Chapter 1).

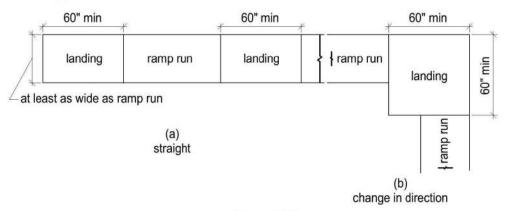
405.2 Slope. Ramp runs shall have a running slope not steeper than 1:12.

**405.3 Cross Slope.** Cross slope of ramp runs shall not be steeper than 1:48.

405.5 Clear Width. The clear width of a ramp run and, where handrails are provided, the clear between handrails shall be 36 inches (915 mm) minimum.

#### **405.6 Rise.** The rise for any ramp run shall be 30 inches (760 mm) maximum.

405.7 Landings. Ramps shall have landings at the top and the bottom of each ramp run. Landings shall comply with 405.7.



#### Figure 405.7 Ramp Landings

## **CHAPTER 5: GENERAL SITE AND BUILDING ELEMENTS**

#### 501 General

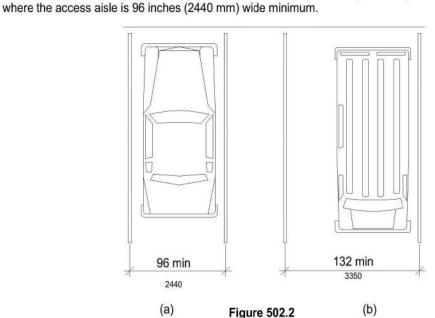
501.1 Scope. The provisions of Chapter 5 shall apply where required by Chapter 2 or where referenced by a requirement in this document.

#### 502 Parking Spaces

**502.1 General.** Car and van parking spaces shall comply with 502. Where parking spaces are marked with lines, width measurements of parking spaces and access aisles shall be made from the centerline of

**EXCEPTION:** Where parking spaces or access aisles are not adjacent to another parking space or access aisle, measurements shall be permitted to include the full width of the line defining the parking space or access aisle.

502.2 Vehicle Spaces. Car parking spaces shall be 96 inches (2440 mm) wide minimum and van parking spaces shall be 132 inches (3350 mm) wide minimum, shall be marked to define the width, and shall have an adjacent access aisle complying with 502.3. **EXCEPTION:** Van parking spaces shall be permitted to be 96 inches (2440 mm) wide minimum



502.3 Access Aisle. Access aisles serving parking spaces shall comply with 502.3. Access aisles shall adjoin an accessible route. Two parking spaces shall be permitted to share a common access aisle.

Vehicle Parking Spaces

**502.3.1 Width.** Access aisles serving car and van parking spaces shall be 60 inches (1525 mm)

**502.3.2 Length.** Access aisles shall extend the full length of the parking spaces they serve.

#### **502.3.3 Marking.** Access aisles shall be marked so as to discourage parking in them.

502.3.4 Location. Access aisles shall not overlap the vehicular way. Access aisles shall be permitted to be placed on either side of the parking space except for angled van parking spaces which shall have access aisles located on the passenger side of the parking spaces.

502.4 Floor or Ground Surfaces. Parking spaces and access aisles serving them shall comply

302. Access aisles shall be at the same level as the parking spaces they serve. Changes in not permitted

502.5 Vertical Clearance. Parking spaces for vans and access aisles and vehicular routes

them shall provide a vertical clearance of 98 inches (2490 mm) minimum. 502.6 Identification. Parking space identification signs shall include the International Symbol of Accessibility complying with 703.7.2.1. Signs identifying van parking spaces shall contain the designation "van accessible." Signs shall be 60 inches (1525 mm) minimum above the finish

502.7 Relationship to Accessible Routes. Parking spaces and access aisles shall be designed that cars and vans, when parked, cannot obstruct the required clear width of adjacent accessible

#### 503 Passenger Loading Zones

ground surface measured to the bottom of the sign.

**503.2 Vehicle Pull-Up Space**. Passenger loading zones shall provide a vehicular pull-up space inches (2440 mm) wide minimum and 20 feet (6100 mm) long minimum.

503.3 Access Aisle. Passenger loading zones shall provide access aisles complying with 503 to the vehicle pull-up space. Access aisles shall adjoin an accessible route and shall not overlap vehicular way.

503.3.1 Width. Access aisles serving vehicle pull-up spaces shall be 60 inches (1525 mm) wide

503.3.2 Length. Access aisles shall extend the full length of the vehicle pull-up spaces they

**503.3.3 Marking.** Access aisles shall be marked so as to discourage parking in them.

#### **CHAPTER 6: PLUMBING ELEMENTS AND FACILITIES**

#### 602 Drinking Fountains

provided.

602.2 Clear Floor Space. Units shall have a clear floor or ground space complying with 305 for a forward approach and centered on the unit. Knee and toe clearance complying with 306

**EXCEPTION:** A parallel approach complying with 305 shall be permitted at units for children's

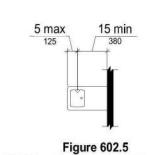
where the spout is 30 inches (760 mm) maximum above the finish floor or ground and is 31/2 (90 mm) maximum from the front edge of the unit, including bumpers.

602.3 Operable Parts. Operable parts shall comply with 309.

602.4 Spout Height. Spout outlets shall be 36 inches (915 mm) maximum above the finish floor ground.

**602.5 Spout Location.** The spout shall be located 15 inches (380 mm) minimum from the

support and 5 inches (125 mm) maximum from the front edge of the unit, including bumpers.



**Drinking Fountain Spout Location** 

602.6 Water Flow. The spout shall provide a flow of water 4 inches (100 mm) high minimum and shall be located 5 inches (125 mm) maximum from the front of the unit. The angle of the water stream shall be measured horizontally relative to the front face of the unit. Where spouts are located less than 3 inches (75 mm) of the front of the unit, the angle of the water stream shall be 30 degrees maximum. Where spouts are located between 3 inches (75 mm) and 5 inches (125 mm) maximum from the front of the unit, the angle of the water stream shall be 15 degrees maximum.

602.7 Drinking Fountains for Standing Persons. Spout outlets of drinking fountains for standing persons shall be 38 inches (965 mm) minimum and 43 inches (1090 mm) maximum above the finish floor or ground.

# 603 Toilet and Bathing Rooms

**603.2 Clearances.** Clearances shall comply with 603.2.

35 inches (890 mm) maximum above the finish floor or ground.

**603.2.1 Turning Space.** Turning space complying with 304 shall be provided within the room.

603.2.2 Overlap. Required clear floor spaces, clearance at fixtures, and turning space shall be

permitted to overlap. **603.2.3 Door Swing.** Doors shall not swing into the clear floor space or clearance required for any

fixture. Doors shall be permitted to swing into the required turning space. 603.3 Mirrors. Mirrors located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 40 inches (1015 mm) maximum above the finish floor or ground. Mirrors not located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface

603.4 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

## 604 Water Closets and Toilet Compartments

**604.2 Location.** The water closet shall be positioned with a wall or partition to the rear and to one side. The centerline of the water closet shall be 16 inches (405 mm) minimum to 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Water closets shall be arranged for a left-hand or right-hand

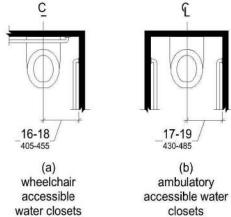


Figure 604.2 Water Closet Location 4300 Legendary Drive, Suite 234



Destin, Florida 32541

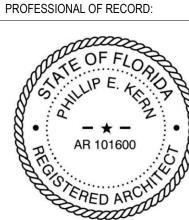
Tidal Wave Auto Spa 3039 W US-90 Lake City, FL 32055 Columbia County

PROTOTYPE: PROTOTYPE DATE:

SETUP DATE:

SET NAME:

SET DATE:



This item has been electronically signed and sealed by Phillip Kern, NCARB using a Digital Signature and date. Printed copies of this document are not considered signed and sealed and the signature must be verified on all electronic copies

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SHEET REVISIONS: ▲ DATE: DESCRIPTION:

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**ADA GUIDELINES** 

SHEET SCALE:

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**604.3.1 Size.** Clearance around a water closet shall be 60 inches (1525 mm) minimum measured perpendicular from the side wall and 56 inches (1420 mm) minimum measured perpendicular from the rear wall.

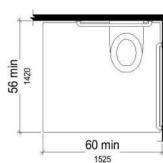


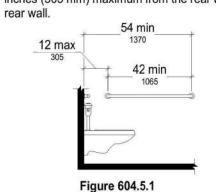
Figure 604.3.1 Size of Clearance at Water Closet

**604.3.2 Overlap.** The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, dispensers, sanitary napkin disposal units, coat hooks, shelves, accessible routes, clear floor space and clearances required at other fixtures, and the turning space. No other fixtures or obstructions shall be located within the required water closet clearance.

**604.4 Seats.** The seat height of a water closet above the finish floor shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

**604.5 Grab Bars.** Grab bars for water closets shall comply with 609. Grab bars shall be provided on the side wall closest to the water closet and on the rear wall.

604.5.1 Side Wall. The side wall grab bar shall be 42 inches (1065 mm) long minimum, located 12 inches (305 mm) maximum from the rear wall and extending 54 inches (1370 mm) minimum from the



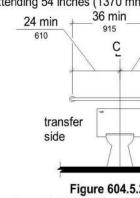


Figure 604.5.1 Side Wall Grab Bar at Water Closet

Figure 604.5.2 Rear Wall Grab Bar at Water Closet

**604.5.2 Rear Wall.** The rear wall grab bar shall be 36 inches (915 mm) long minimum and extend from the centerline of the water closet 12 inches (305 mm) minimum on one side and 24 inches (610 mm) minimum on the other side.

**604.6 Flush Controls.** Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with 604.8.2.

**604.7 Dispensers.** Toilet paper dispensers shall comply with 309.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 15 inches (380 mm) minimum and 48 inches (1220 mm) maximum above the finish floor and shall not be located behind grab bars. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow.

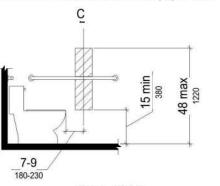


Figure 604.7
Dispenser Outlet Location

**604.8.3 Coat Hooks and Shelves.** Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

#### 606 Lavatories and Sinks

**606.2 Clear Floor Space.** A clear floor space complying with 305, positioned for a forward approach, and knee and toe clearance complying with 306 shall be provided.

**606.3 Height.** Lavatories and sinks shall be installed with the front of the higher of the rim or counter surface 34 inches (865 mm) maximum above the finish floor or ground.

**606.4 Faucets.** Controls for faucets shall comply with 309. Hand-operated metering faucets shall remain open for 10 seconds minimum.

**606.5 Exposed Pipes and Surfaces.** Water supply and drain pipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories and sinks.

#### 609 Grab Bars

**609.1 General.** Grab bars in toilet facilities and bathing facilities shall comply with 609.

**609.2 Cross Section.** Grab bars shall have a cross section complying with 609.2.1 or 609.2.2.

**609.2.1 Circular Cross Section.** Grab bars with circular cross sections shall have an outside diameter of 1½ inches (32 mm) minimum and 2 inches (51 mm) maximum.

**609.2.2 Non-Circular Cross Section.** Grab bars with non-circular cross sections shall have a cross-section dimension of 2 inches (51 mm) maximum and a perimeter dimension of 4 inches (100 mm) minimum and 4.8 inches (120 mm) maximum.

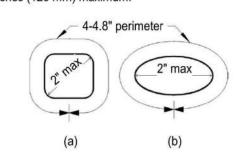
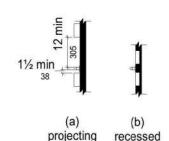


Figure 609.2.2
Grab Bar Non-Circular Cross Section

**609.3 Spacing.** The space between the wall and the grab bar shall be 1½ inches (38 mm). The space between the grab bar and projecting objects below and at the ends shall be 1½ inches (38 mm) minimum. The space between the grab bar and projecting objects above shall be 12 inches (305 mm) minimum.



objects objects
Figure 609.3 Spacing of Grab Bars

609.4 Position of Grab Bars. Grab bars shall be installed in a horizontal position, 33 inches (840 mm) minimum and 36 inches (915 mm) maximum above the finish floor measured to the top of the gripping surface, except that at water closets for children's use complying with 604.9, grab bars shall be installed in a horizontal position 18 inches (455 mm) minimum and 27 inches (685 mm) maximum above the finish floor measured to the top of the gripping surface. The height of the lower grab bar on the back wall of a bathtub shall comply with 607.4.1.1 or 607.4.2.1.

**609.5 Surface Hazards.** Grab bars and any wall or other surfaces adjacent to grab bars shall be free of sharp or abrasive elements and shall have rounded edges.

609.6 Fittings. Grab bars shall not rotate within their fittings.

**609.7 Installation.** Grab bars shall be installed in any manner that provides a gripping surface at the specified locations and that does not obstruct the required clear floor space.

**609.8 Structural Strength.** Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds (1112 N) is applied at any point on the grab bar, fastener, mounting device, or supporting structure.

#### CHAPTER 7: COMMUNICATION ELEMENTS AND FEATURES

#### 703 Signs

**703.1 General.** Signs shall comply with 703. Where both visual and tactile characters are required, either one sign with both visual and tactile characters, or two separate signs, one with visual, and one with tactile characters, shall be provided.

**703.2 Raised Characters.** Raised characters shall comply with 703.2 and shall be duplicated in braille complying with 703.3. Raised characters shall be installed in accordance with 703.4.

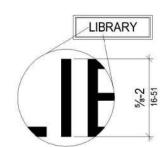
703.2.1 Depth. Raised characters shall be 1/32 inch (0.8 mm) minimum above their background.

703.2.2 Case. Characters shall be uppercase.

**703.2.3 Style.** Characters shall be sans serif. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

**703.2.4 Character Proportions.** Characters shall be selected from fonts where the width of the uppercase letter "O" is 55 percent minimum and 110 percent maximum of the height of the uppercase letter "I".

**703.2.5 Character Height.** Character height measured vertically from the baseline of the character shall be 5/8 inch (16 mm) minimum and 2 inches (51 mm) maximum based on the height of the uppercase letter "I".



## Figure 703.2.5 Height of Raised Characters

**703.2.6 Stroke Thickness**. Stroke thickness of the uppercase letter "I" shall be 15 percent maximum of the height of the character.

703.2.7 Character Spacing. Character spacing shall be measured between the two closest points of adjacent raised characters within a message, excluding word spaces. Where characters have rectangular cross sections, spacing between individual raised characters shall be 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum. Where characters have other cross sections, spacing between individual raised characters shall be 1/16 inch (1.6 mm) minimum and 4 times the raised character stroke width maximum at the base of the cross sections, and 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum at the top of the cross sections. Characters shall be separated from raised borders and decorative elements 3/8 inch (9.5 mm) minimum.

**703.2.8 Line Spacing.** Spacing between the baselines of separate lines of raised characters within a message shall be 135 percent minimum and 170 percent maximum of the raised character height.

703.3 Braille. Braille shall be contracted (Grade 2) and shall comply with 703.3 and 703.4.

**703.3.1 Dimensions and Capitalization.** Braille dots shall have a domed or rounded shape and shall comply with Table 703.3.1. The indication of an uppercase letter or letters shall only be used before the first word of sentences, proper nouns and names, individual letters of the alphabet, initials, and acronyms.

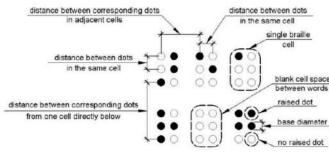
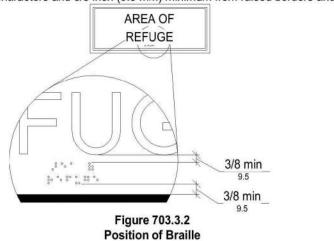


Figure 703.3.1 Braille Measurement

**703.3.2 Position.** Braille shall be positioned below the corresponding text. If text is multi-lined, braille shall be placed below the entire text. Braille shall be separated 3/8 inch (9.5 mm) minimum from any other tactile characters and 3/8 inch (9.5 mm) minimum from raised borders and decorative elements.



703.4 Installation Height and Location. Signs with tactile characters shall comply with 703.4.

**703.4.1 Height Above Finish Floor or Ground.** Tactile characters on signs shall be located 48 inches (1220 mm) minimum above the finish floor or ground surface, measured from the baseline of the lowest tactile character and 60 inches (1525 mm) maximum above the finish floor or ground surface, measured from the baseline of the highest tactile character.

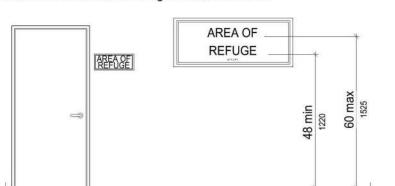


Figure 703.4.1

Height of Tactile Characters Above Finish Floor or Ground

**703.4.2 Location.** Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leafs, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

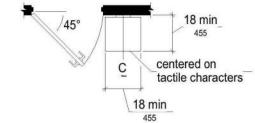


Figure 703.4.2 Location of Tactile Signs at Doors

703.5 Visual Characters. Visual characters shall comply with 703.5.

**703.5.1 Finish and Contrast.** Characters and their background shall have a non-glare finish. Characters shall contrast with their background with either light characters on a dark background or dark characters on a light background.

**703.5.2 Case.** Characters shall be uppercase or lowercase or a combination of both.

**703.5.3 Style.** Characters shall be conventional in form. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

**703.5.4 Character Proportions.** Characters shall be selected from fonts where the width of the uppercase letter "O" is 55 percent minimum and 110 percent maximum of the height of the uppercase letter "I".

**703.5.5 Character Height.** Minimum character height shall comply with Table 703.5.5. Viewing distance shall be measured as the horizontal distance between the character and an obstruction preventing further approach towards the sign. Character height shall be based on the uppercase

**703.5.6 Height From Finish Floor or Ground.** Visual characters shall be 40 inches (1015 mm) minimum above the finish floor or ground.

**703.5.7 Stroke Thickness.** Stroke thickness of the uppercase letter "I" shall be 10 percent minimum and 30 percent maximum of the height of the character.

703.5.8 Character Spacing. Character spacing shall be measured between the two closest points of adjacent characters, excluding word spaces. Spacing between individual characters shall be 10

percent minimum and 35 percent maximum of character height.

703.5.9 Line Spacing. Spacing between the baselines of separate lines of characters within a

message shall be 135 percent minimum and 170 percent maximum of the character height.

703.6 Pictograms. Pictograms shall comply with 703.6.

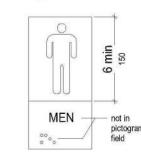


Figure 703.6.1 Pictogram Field

**703.6.1 Pictogram Field.** Pictograms shall have a field height of 6 inches (150 mm) minimum. Characters and braille shall not be located in the pictogram field.

**703.6.2 Finish and Contrast.** Pictograms and their field shall have a non-glare finish. Pictograms shall contrast with their field with either a light pictogram on a dark field or a dark pictogram on a light

703.6.3 Text Descriptors. Pictograms shall have text descriptors located directly below the

pictogram field. Text descriptors shall comply with 703.2, 703.3 and 703.4.

703.7 Symbols of Accessibility. Symbols of accessibility shall comply with 703.7.

**703.7.1 Finish and Contrast.** Symbols of accessibility and their background shall have a non-glare finish. Symbols of accessibility shall contrast with their background with either a light symbol on a dark background or a dark symbol on a light background.

#### 705 Detectable Warnings

**705.1 General.** Detectable warnings shall consist of a surface of truncated domes and shall comply with 705.

**705.1.1 Dome Size.** Truncated domes in a detectable warning surface shall have a base diameter of 0.9 inch (23 mm) minimum and 1.4 inches (36 mm) maximum, a top diameter of 50 percent of the base diameter minimum to 65 percent of the base diameter maximum, and a height of 0.2 inch (5.1 mm).

**705.1.2 Dome Spacing.** Truncated domes in a detectable warning surface shall have a center-to-center spacing of 1.6 inches (41 mm) minimum and 2.4 inches (61 mm) maximum, and a base-to-base spacing of 0.65 inch (17 mm) minimum, measured between the most adjacent domes on a square grid.

**705.1.3 Contrast.** Detectable warning surfaces shall contrast visually with adjacent walking surfaces either light-on-dark, or dark-on-light.

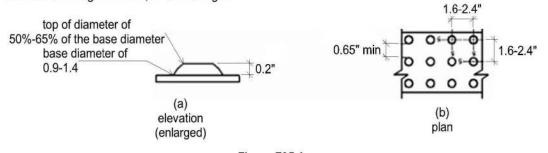


Figure 705.1
Size and Spacing of Truncated Domes

**705.2 Platform Edges.** Detectable warning surfaces at platform boarding edges shall be 24 inches (610 mm) wide and shall extend the full length of the public use areas of the platform.

OLSON LAND PARTNERS, LLC

Destin, Florida 32541
T: 850.650.4353 F: 850.650.3881

PROJECT:

4300 Legendary Drive, Suite 234

Tidal Wave Auto Spa 3039 W US-90

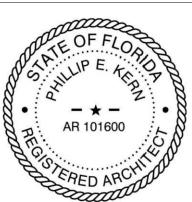
Lake City, FL 32055
Columbia County
PROTOTYPE:

PROTOTYPE DATE:

SETUP DATE:

SET NAME:

SET DATE:
PROFESSIONAL OF RECORD:



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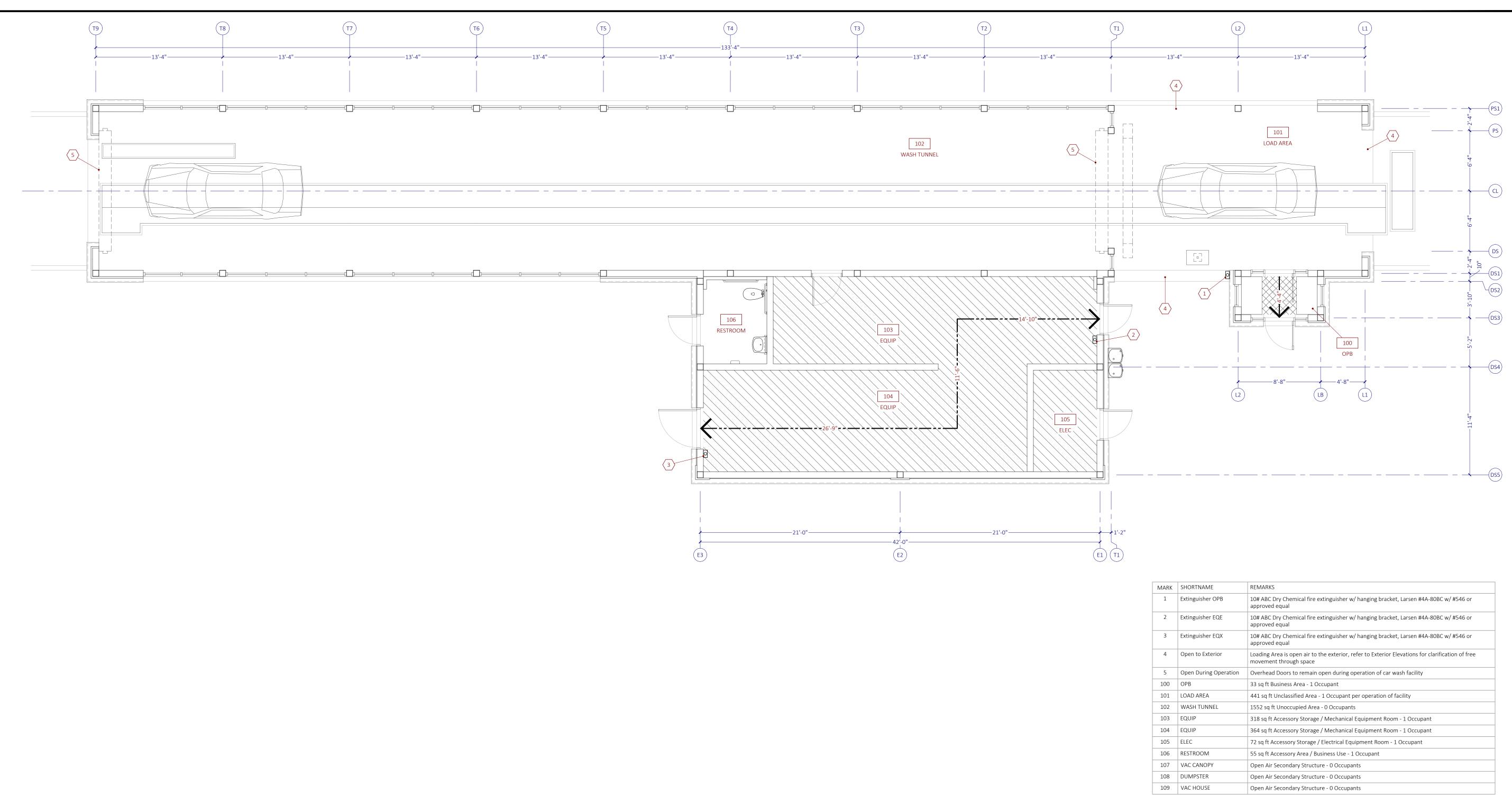
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Tidal Wave Auto Spa 3039 W US-90 Lake City, FL 32055 Columbia County

PROTOTYPE:	133DS
PROTOTYPE DATE:	22-0205
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SHEET NUMBER:

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3/16" = 1'-0"