ABBREVIATIONS

ABD	ABANDONED
AC	ACRE
ACCEL	ACCELERATION
ADJ	ADJUST
AGG	AGGREGATE
ALT	ALTERNATE
ALUM	ALUMINUM
AM	11:59 MIDNIGHT UNTIL 12:00 NOON
APPL	APPLICATION
APPROX	APPROXIMATE
ARV	AIR RELIEF VALVE
ASPH	ASPHALT
ASSEM	ASSEMBLY
ATTN	ATTENTION
AUX	AUXILIARY
AVE	AVENUE
AWG	AMERICAN WIRE GAUGE
BC	BACK OF CURB
BCCMP	BITUMINOUS COATED CORRUGATED METAL PIPE
BE	BURIED ELECTRIC
BEG	BEGIN
BIT	BITUMINOUS
BK	BACK
BL	BASELINE
BLC	BASELINE CONTROL
BLDG	BUILDING
BLKHD	BULKHEAD
BLVD	BOULEVARD
BM	BENCHMARK
BNDRY	BOUNDARY
BOT	BOTTOM
BP	BORROW PIT
BR	BRIDGE
BRG	BEARING
BT	BURIED TELEPHONE
BTFLY	BUTTERFLY
BTWN	BETWEEN
BW	BOTTOM WIDTH
C&G	CURB AND GUTTER
CIP	CAST IN PLACE
CA	COURSE AGGREGATE
CAP	CORRUGATED ALUMINUM PIPE
CASP	CORRUGATED ALUMINIZED STEEL PIPE
CATV	CABLE TELEVISION
CB	CATCH BASIN
CBC	CONCRETE BOX CULVERT
CBS	CONCRETE BOX STRUCTURE
CC	CENTER TO CENTER
CD	CROSS DRAIN
CEM	CEMENT
CF	CUBIC FOOT
CFS	CUBIC FOOT PER SECOND
CH	CHANNEL
CI	CAST IRON
CIP	CAST IRON PIPE
CIRC	CIRCUMFERENCE
CL	CENTERLINE
CLEAR	CLEARANCE
CM	CONCRETE MONUMENT
CMP	CORRUGATED METAL PIPE
CMPA	CORRUGATED METAL PIPE ARCH
CO	CLEAN OUT
COL	COLUMN
COM	COMMERCIAL
COMP	COMPOSITE
CON	CONNECT
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUATION
CONTR	CONTRACTOR
COORD	COORDINATE
COR	CORNER
CORR	CORRUGATED
COV	COVER
CP	CONCRETE PIPE
CPE	CORRUGATED POLYETHYLENE PIPE
CR	CONTROL RADIUS
CRS	COURSE
CSP	CORRUGATED STEEL PIPE
CTR	CENTER
CY	CUBIC YARD
CULV	CULVERT
CWE	CONTROL WATER ELEVATION
D	DEPTH
DIA	DIAMETER
DA	DRAINAGE AREA
DBH	DIAMETER AT BREAST HEIGHT
DBI	DITCH BOTTOM INLET
DBL	DOUBLE
DE	DRAINAGE EASEMENT
DECEL	DECELERATION
DEG	DEGREE
DELIN	DELINEATORS
DEPT	DEPARTMENT
DET	DETECTABLE
DFE	DESIGN FLOOD ELEVATION
DGN	DESIGN
DHW	DESIGN HIGH WATER
DHWE	DESIGN HIGH WATER ELEVATION
DHWL	DESIGN HIGH WATER LEVEL
DI	DROP INLET
DIM	DIMENSION
DIST	DISTANCE
DR	DRIVE
DRWY	DRIVEWAY
DS	DESIGN SPEED
DSWT	DRY SEASON WATER TABLE
DT	DITCH
DWG	DRAWING
E	EAST
EOP	EDGE OF PAVEMENT
EA	EACH
EB	EASTBOUND
EL	ELEVATION
ELAST	ELASTOMERIC
ELEC	ELECTRIC
ELLIP	ELLIPTICAL
EMBED	EMBEDMENT
EMBK	EMBANKMENT
ENCL	ENCLOSURE
ENGR	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
ERCP	ELLIPTICAL REINFORCED CONCRETE PIPE
ESMT	EASEMENT
EST	ESTABLISHED
ESTM	ESTIMATE
ETC	ET CETERA
EW	ENDWALL
EX	EXCEPT
EXC	EXCAVATION
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTENSION
FL	FLOWLINE
FS	FLORIDA STATUTES
FAC	FLORIDA ADMINISTRATIVE CODE
FC	FRICTION COURSE
FD	FRENCH DRAIN
FDN	FOUNDATION
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION
FE	FLOOR ELEVATION
FED	FEDERAL
FES	FLARED END SECTION
FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FIG	FIGURE
FIN	FINISH
FLA	FLORIDA
FLEX	FLEXIBLE
FM	FORCE MAIN
FOC	FIBER OPTIC CABLE
FR	FRAME
FT	FOOT OR FEET
FTB	FLOATING TURBIDITY BARRIER
FURN	FURNISH
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GAR	GARAGE
GB	GRADE BREAK
GD	GUTTER DRAIN
GIP	GALVANIZED IRON PIPE
GM	GAS MAIN
GP	GRADE POINT
GR	GRADE OR GRATE
GRC	GALVANIZED RIGID CONDUIT
GRD	GROUND
GTTR	GUTTER
GV	GATE VALVE
HS	HIGH STRENGTH
HB	HAY BALES
HC	HANDICAPPED OR HORIZONTAL CLEARANCE
HD	HEAVY DUTY
HDPE	HIGH DENSITY POLYETHYLENE
HDWL	HEADWALL
HNDRL	HANDRAIL
HOA	HOME OWNERS ASSOCIATION
HOR	HORIZONTAL
HP	HIGH POINT OR HIGH PRESSURE
HR	HOUR
HSE	HOUSE
HT	HEIGHT
HW	HIGH WATER
HWY	HIGHWAY
HYD	HYDRAULIC
HZ	HERTZ
ID	INSIDE DIAMETER OR IDENTIFICATION
IN	INCH(ES)
INC	INCORPORATED OR INCLUDING
IND	INDUSTRY
INSTALL	INSTALLED
INT	INTERIOR
INV	INVERT
IP	IRON PIPE
IR	IRON ROD
ISECT	INTERSECTION
ISL	ISLAND
JB	JUNCTION BOX
JCT	JUNCTION
JT	JOINT
K	DESIGN HOUR FACTOR
KWH	KILOWATT–HOUR
L	LENGTH
L/W	LIGHTWEIGHT
LA	LIMITED ACCESS
LAT	LATITUDE
LB	POUNDS
LB/SY	POUNDS PER SQUARE YARDS
LBR	LIME ROCK BEARING RATIO
LF	LINEAR FEET (FOOT)
LGTH	LENGTH
LIN	LINEAR
LM	LUMEN
LME	LAKE MAINTENANCE EASEMENT
LMRK	LIME ROCK
LOC	LOCATION
LONG	LONGITUDE
LS	LUMP SUM OR LANDSCAPE
LSB	LANDSCAPE BUFFER
LT	LEFT TURN
LTD	LIMITED
LUM	LUMINAIRE
LX	LUX
MAINT	MAINTENANCE
MATL	MATERIAL
MAX	MAXIMUM
MB	MEDIAN BARRIER
MED	MEDIAN
MES	MITERED END SECTION
MFG	MANUFACTURER
MH	MANHOLE
MHW	MEAN HIGH WATER
MI	MILE
MID	MIDDLE
MIL	ONE–THOUSANDTH OF AN INCH
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MLW	MEAN LOW WATER
MOBL	MOBILIZATION
MOD	MODIFIED
MON	MONUMENT
MOT	MAINTENANCE OF TRAFFIC
MP	MILE POST
MPH	MILES PER HOUR
MSL	MEAN SEA LEVEL
MTD	MOUNTED
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
N	NORTH
N&C	NAIL AND CAP
N&D	NAIL AND DISK
NA	NOT APPLICABLE
NAVD	NATIONAL AMERICAN VERTICAL DATUM
NB	NORTHBOUND
NE	NORTHEAST
NEMA	NATIONAL ELECTRIC MANUFACTURES ASSOCIATION
NGVD	NATIONAL GEODETIC VERTICAL DATUM OF 1929
NHW	NORMAL HIGH WATER
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NORM	NORMAL
NTS	NOT TO SCALE
NW	NORTHWEST
NWL	NORMAL WATER LEVEL
OBG	OPTIONAL BASE GROUP
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OE	OVERHEAD ELECTRIC
OH	OVERHEAD
OPT	OPTIONAL
OT	OVERHEAD TELEPHONE
PAR	PARALLEL
PAVT	PAVEMENT
PC	POINT OF CURVATURE
PCBC	PRECAST CONCRETE BOX CULVERT
PCE	PERMANENT CONSTRUCTION EASEMENT
PE	PROFESSIONAL ENGINEER
PED	PEDESTRIAN
PEN	PENETRATION
PG	PROFILE GRADE
PGL	PROFILE GRADE LINE
PH	PHASE
PI	POINT OF INTERSECTION
PKG	PARKING
PKWY	PARKWAY
PL	PROPERTY LINE
PM	12:00 NOON UNTIL 11:59 MIDNIGHT
POC	POINT OF CONNECTION OR POINT OF CURVE
PP	POWER POLE
PR	PAIR
PRC	POINT OF REVERSE CURVATURE
PRCST	PRECAST
PREST	PRESTRESSED
PRM	PERMANENT REFERENCE MONUMENT
PROD	PRODUCT
PROJ	PROJECT
PROP	PROPOSED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSU	PRESTRESSED SLAB UNIT
PT	POINT OF TANGENCY
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE
PW	POTABLE WATER
Q	PEAK DISCHARGE OR FLOW VOLUME
R	RADIUS
RT	RIGHT
ROW	RIGHT OF WAY
RC	REVERSE CROWN
RCP	REINFORCED CONCRETE PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
RD	ROAD
RDSD	ROADSIDE
RDWY	ROADWAY
REC	RECREATIONAL
RECT	RECTICULINE
REF	REFERENCE
REFL	REFLECTIVE
REG	REGISTERED
REINF	REINFORCED
RELOC	RELOCATED
REM	REMOVAL
RED	REDUCER
REPL	REPLACE
REQ	REQUIRED
RES	RESIDENCE OR RESIDENTIAL
RM	RE–USE MAIN OR REFERENCE MONUMENT
RP	REFERENCE POINT
RPM	RAISED REFLECTIVE PAVEMENT MARKERS
RR	RAILROAD
RSF	RESURFACE
SAN	SANITARY
SB	SOUTHBOUND
SCH	SCHEDULE
SD	STORMDRAIN
SE	SOUTHEAST
SECT	SECTION
SED	SEDIMENT
SEP	SEPARATION
SG	SUBGRADE
SHT	SHEET
SHLDR	SHOULDER
SHW	SEASONAL HIGH WATER
SHWT	SEASONAL HIGH WATER TABLE
SP	SUPER PAVE
SPEC	SPECIFICATION
SQ	SQUARE
SF	SQUARE FOOT
SQ IN	SQUARE INCH
SY	SQUARE YARD
SR	STATE ROAD
SS	SANITARY SEWER OR STAINLESS STEEL
ST	STREET
STA	STATION
STAB	STABILIZATION
STB	STAKED TURBIDITY BARRIER
STD	STANDARD
STGE	STORAGE
STL	STEEL
STR	STRUCTURE
STY	STORY
SUB	SUB SOIL
SUBST	SUBSTITUTE
SUPPTS	SUPPORTS
SUR	SURVEY
SURF	SURFACE
SW	SIDEWALK OR SOUTHWEST
SWMA	STORM WATER MANAGEMENT AREA
SYM	SYMMETRICAL
SYS	SYSTEM
TWP	TOWNSHIP
TAN	TANGENT
TC	TANGENT TO CURVE
TCE	TEMPORARY CONSTRUCTION EASEMENT
TEL	TELEPHONE
TEMP	TEMPORARY
TK	TRUCK
THICK	THICKNESS
TIS	TRAFFIC IMPACT STATEMENT
TN	TON
TOB	TOP OF BANK
TOE	TOE OF SLOPE
TRAF	TRAFFIC
TREAT	TREATMENT
TW	TOP OF WALL
TYP	TYPICAL
UE	UTILITY EASEMENT
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
UNDDR	UNDER DRAIN
USGS	UNITED STATES GEOLOGICAL SERVICE
UTIL	UTILITIES
UV	ULTRAVIOLET
V	VOLT
VAR	VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VEH	VEHICLE
VERT	VERTICAL
VOL	VOLUME
VW	VARIABLE WIDTH
W	WIDTH OR WATT
W/	WITH
WB	WESTBOUND
WM	WATER MAIN
WSWT	WET SEASON WATER TABLE
WT	WATER TABLE
WWF	WELDED WIRE FABRIC
WWR	WELDED WIRE REINFORCING
XING	CROSSING
XSEC	CROSS SECTION
YD	YARD
YR	YEAR

FORT MYERS FIRE DEPARTMENT HYDRANT FLOW TEST DATA SHEET

REQUESTED BY	MEGAN BISHOP
FIRM REQUESTING CONTACT NUMBER	BANKS ENGINEERING
PROJECT NAME	
PROJECT ADDRESS	10520 COLONIAL
REASON FOR FLOW TEST	HYDRAULIC CALCULATIONS
ADDRESS : FLOW HYDRANT #	404044, 9010 COLONIAL COUNTRY CLUB BLVD
ADDRESS : S&R HYDRANT #	403117, 10510 COLONIAL BLVD
DURATION OF FLOW	10 MINUTES
MAIN SIZE	10"
DATE AND TIME OF TEST	7/14/2020
COEFFICIENT	0.90
BUTT DIAMETER	2.50
BUTTS FLOWED	2
STATIC #	45
S&R : RESIDUAL 1	35
S&R : RESIDUAL 2	25
FLOW : PITOT 1 CAP	25
FLOW : PITOT 2 CAPS	20
FLOW : PITOT 2 for caps only	20
FLOW : PITOT 3 third hydrant if needed	
FLOW : PITOT 3 third hydrant if needed	
FLOW : PITOT 3 for caps only	
FLOW AT PITOT READING	1501
FLOW AT 20 PSI	1693
REQUEST RECEIVED BY	KAREN SNYDER
DATE RECEIVED	7/10/2020
TEST PERFORMED BY	STATION 5 A SHIFT
COMMENTS	

If a third hydrant is opened provide data in fields identified with PITOT 3. Include location on map provided.

HYDRANT FLOW TESTS ARE ONLY VALID FOR 6 MONTHS FROM THE DATE OF TEST

Questions can be directed to the Fire Prevention Bureau at 239-321-7300

SETBACKS

SPECIAL DEVELOPMENT AREA

GENERAL COMMERCIAL DISTRICT (C)

	REQUIRED	PROVIDED
MINIMUM LOT AREA	20,000 SF	46,317 SF
MINIMUM LOT WIDTH	100 Ft	182 FT
MINIMUM LOT DEPTH	150 Ft	288 FT
COLLECTOR/ARTERIAL SETBACK	50 Ft	60 Ft
PARCEL BOUNDARY SETBACK	25 Ft	37 Ft
MINIMUM FLOOR AREA	1,000 SF	6,225 SF
MAXIMUM HEIGHT	10 STORIES	1 STORY
MAXIMUM BUILDING COVERAGE	50%	13%

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1-800-432-4770
Sunshine State One Call of Florida, Inc.

EARTHWORK NOTES:

1. The contractor shall install silt fence and tree barricades as shown on construction plans. City of Fort Myers should be contacted to inspect silt fence and tree barricades prior to commencement of earthwork operations.
2. Upon issuance of Clearing Permit, contractor shall remove and dispose of trees called for such on plans. All ground vegetation and topsoil within the limits of construction shall be removed. Any unsuitable material encountered shall be removed to the satisfaction of the geotechnical engineer. All topsoil removed from the building and pavement areas shall be stockpiled and used later in landscaped areas. All organic soils/debris should be removed, see organic soils removal notes.
3. After clearing operations, the exposed subgrade should be evaluated and proof rolled as directed by the geotechnical engineer. Proof rolling shall consist of compaction with a large–diameter, heavy vibratory drum roller. Observation should be made to identify any areas of yielding soils that may require over excavation and replacement, as determined by the geotechnical engineer.
4. Contractor shall refer to the Geotechnical Report and implement recommendations therein.

ALL ELEVATIONS SHOWN ON THESE PLANS ARE IN NAVD88.
THE CONVERSION FACTOR, AT THIS SITE, FRO NGVD29 TO NAVD88 IS 1.14
(EXAMPLE EL. 11.14 NGVD29 = EL. 10.00 NAVD88)

LAND DEVELOPMENT

	SF	ACRES	%
TOTAL PROJECT AREA:	46,317 SF	1.06 AC	100.00 %
IMPERVIOUS			
BUILDING	6,225 SF	0.14 AC	13.44 %
PAVEMENT	18,417 SF	0.42 AC	39.76 %
CONCRETE	3,144 SF	0.07 AC	6.79 %
PERVIOUS	18,531 SF	0.43 AC	40.01 %

FIRE FLOW REQUIRED:

BUILDING AREA	CONSTRUCTION TYPE	FIRE FLOW REQUIRED	SPRINKLED
6,225 SF	II(111)	1,500 GPM	NO

PARKING CALCULATIONS:

REQUIRED: 2 PER BAY, PLUS 1 PER EMPLOYEE
BAYS: 8 BAYS
EMPLOYEES: 10 EMPLOYEES
CALCULATION: 8 BAYS x 2 = 16
10 EMPLOYEES x 1 = 10
SPACES REQUIRED: 26 SPACES
SPACES PROVIDED: 27 SPACES, INCLUDING 2 HANDICAP SPACES

BICYCLE RACKS:

REQUIRED: 1 RACK FOR EACH 30–100 REQUIRED PARKING SPACES, 2 RACKS FOR EVERY ADDITIONAL 100.(118.8.5.A7d)

TOTAL REQUIRED SPACES = 1 BICYCLE RACK

SOLID WASTE DISPOSAL CALCULATIONS

(3.12 CY/1,000 SF) X 6,225 SF = 19.5 CY

8.0 CY/DUMPSTER WITH 2 DUMPSTERS = 2 TIMES PER WEEK PICK UP

DESIGN HIGH WATER ELEVATIONS:

100 YR DHWL = 23.35 FT NAVD88
25 YR DHWL = 21.85 FT NAVD88
5 YR DHWL = 21.55 FT NAVD88

MINIMUM DESIGN ELEVATIONS:

CONTROL ELEVATION = (DATUM) 19.50 FT NGVD29 = 18.36 FT NAVD88
ROAD MIN EL = (DATUM) 22.70 FT NGVD29 = 21.56 FT NAVD88
PARKING AREAS MIN EL = (DATUM) 22.70 FT NGVD29 = 21.56 FT NAVD88
PERIMITER BERM MIN EL = (DATUM) 22.97 FT NGVD29 = 21.83 FT NAVD88
FINISHED FLOOR MIN EL = (DATUM) 24.50 FT NGVD29 = 23.34 FT NAVD88
FEMA FLOOD (ZONE AE) ELEV = 22.00 FT NAVD

LEGEND

	EXISTING	PROPOSED
DRAINAGE PIPE	32'–18" RCP	32'–18" RCP
DRAINAGE STRUCTURES	SW	
FINISHED FLOOR ELEVATION	N/A	19.0
ON–SITE STORM STRUCTURE #	N/A	S-1
OFF–SITE STORM STRUCTURE #	N/A	OS-1
SPOT GRADE ELEVATION	x15.0'	10.74
PARKING SPACE COUNT	16	16
TOP OF BERM		
RUBBLE RIP–RAP		
PAVEMENT		
PAVEMENT TO BE REMOVED		N/A
CONCRETE		
BUILDING/STRUCTURE		
RIGHT–OF–WAY		
CURB		
EASEMENT		
SWALE/DITCH		
TOP OF BANK		
DRAINAGE FLOW ARROWS		
CROSS SECTION	N/A	A A
SPREADER SWALE		
LANDSCAPE BUFFER	N/A	
LAKE		
SWMA (DRY)		
WETLANDS		
WETLAND IMPACT AREA	N/A	
PROPERTY LINE	PL	PL
POTABLE WATER LINE	E8"W	8"W
FORCE MAIN	E8"F	8"F
SANITARY SEWER MAIN	E8"SS	8"SS
IRRIGATION WATER MAIN	E8"I	8"I
REUSE WATER MAIN	E8"RU	8"RU
GATE VALVE		
REDUCER		
BLOW–OFF		
AIR RELEASE VALVE		
FIRE HYDRANT ASSEMBLY		
SINGLE WATER SERVICE		
DOUBLE WATER SERVICE		
SINGLE IRRIGATION SERVICE		
DOUBLE IRRIGATION SERVICE		
SINGLE SEWER SERVICE		
DOUBLE SEWER SERVICE		
FIRE DEPARTMENT CONNECTION	N/A	FDC
SANITARY MANHOLE & ID		
LIFT STATION & ID		

NO.	DATE	REVISION DESCRIPTION	BY

D. BRENT ADDISON
P.E. LIC.# 70611

GENERAL NOTES (2)

PELICAN PRESERVE OUTPARCEL 1

FORT MYERS, FLORIDA

DATE	PROJECT	DRAWING	DESIGN	DRAWN	CHECKED	SCALE	SHEET
04–07–2020	8485TK	GN2		RJV		N.T.S.	03

PELICAN PRESERVE OUTPARCEL 1

S:\JOBS\84XX\8485TK\ENGINEERING\DEV PLANS\03 GENERAL NOTES (2).DWG 8/19/2020 9:27 AM RJ VELOTTI

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