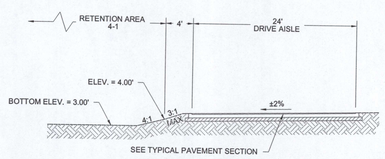


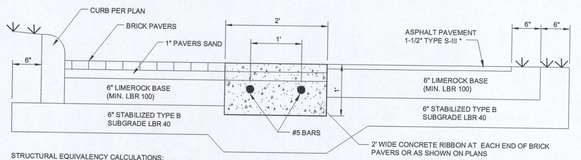
9 NORTHWEST PROJECT BOUNDARY TO PARKING

N.T.S.



10 RETENTION 4-1 TO DRIVE AISLE

N.T.S.



STRUCTURAL EQUIVALENCY CALCULATIONS:

STANDARD PAVEMENT SECTION	LAYER COEFFICIENT	THICKNESS	SUBTOTAL
TYPE S-III ASPHALT PAVEMENT	0.30 / INCH	1-1/2"	0.45
LIMEROCK BASE (LBR 100)	0.18 / INCH	6"	1.08
STABILIZED SUBGRADE (LBR 40)	0.08 / INCH	6"	0.48
TOTAL			2.01

PAVER BRICK SECTION	LAYER COEFFICIENT	THICKNESS	SUBTOTAL
ECONOCRETE (1100 PSI) *	0.25 / INCH	2"	0.50
LIMEROCK BASE	0.18 / INCH	6"	1.08
STABILIZED SUBGRADE (LBR 40)	0.08 / INCH	6"	0.48
TOTAL			2.06

* PAVER BRICKS ARE 8000 PSI. ECONOCRETE USED FOR COMPARISON ONLY.

LIMEROCK BASE AND STABILIZED SUBGRADE SHALL BE COMPACTED TO A MINIMUM OF 98% OF MODIFIED PROCTOR (AASHTO T-180)

3" OF LIMEROCK BASE MATERIAL MAY BE SUBSTITUTED AS AN ALTERNATE DESIGN TO THE 6" STABILIZED SUBGRADE.

OPTIONAL BRICK PAVER SURFACE MAY BE UTILIZED FOR ALL OR PART OF ROADWAY AT THE DISCRETION OF THE OWNER.

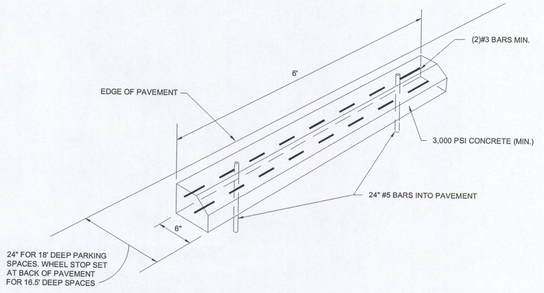
COST OF BRICK PAVERS, LIMEROCK BASE AND SAND TO BE INCLUDED IN UNIT COST FOR BRICK PAVERS. COST OF SUBGRADE TO BE INCLUDED IN UNIT COST FOR STABILIZED SUBGRADE.

* TWO (2) 3/4" LIFTS OF TYPE S-III ASPHALTIC CONCRETE MAY BE PROVIDED AS AN ALTERNATE. THE FIRST LIFT SHALL BE PLACED PRIOR TO CERTIFICATE OF COMPLETION FOR SITE WORK. THE SECOND LIFT SHALL BE PLACED PRIOR TO RECEIVING THE CERTIFICATE OF OCCUPANCY FOR THE LAST UNIT IN EACH PHASE OF CONSTRUCTION.

ALL UNPAVED AREAS WITHIN THE RIGHT OF WAY SHALL RECEIVE SOD OR SEED & MULCH.

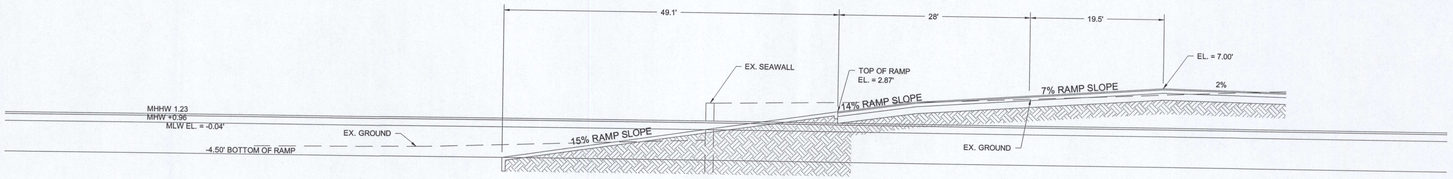
TYPICAL PAVEMENT SECTION

N.T.S.



CONCRETE WHEEL STOP

N.T.S.



11 BOAT RAMP

NOT TO SCALE

Barraco and Associates, Inc.
CIVIL ENGINEERING - LAND SURVEYING
LAND PLANNING - LANDSCAPE DESIGN
www.barraco.net
2271 McGREGOR BLVD., SUITE 100
POST OFFICE DRAWER 2800
FORT MYERS, FLORIDA 33902-2800
PHONE (239) 461-3170
FAX (239) 461-3169
FLORIDA CERTIFICATES OF AUTHORIZATION
ENGINEERING 7995 - SURVEYING LB-6940

PREPARED FOR

CHARLOTTE COUNTY BOARD OF COUNTY COMMISSIONERS

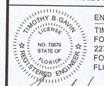
18500 MURDOCK CIRCLE
PORT CHARLOTTE, FL 33948

PROJECT DESCRIPTION

BAY HEIGHTS BOAT RAMP

SECTION 6
TOWNSHIP 41 SOUTH
RANGE 20 EAST
CHARLOTTE COUNTY, FLORIDA

PROJECT ENGINEER



ENGINEER OF RECORD:
TIMOTHY B. GAVIN, P.E.
FOR THE FIRM
2271 McGREGOR BOULEVARD
FORT MYERS, FLORIDA 33901
FLORIDA P.E. NO. 70675

OCT 20 2013

NOT VALID WITHOUT EMBOSSED SEAL, SIGNATURE AND DATE

© COPYRIGHT 2013 BARRACO AND ASSOCIATES, INC.
REPRODUCTION, CHANGES OR ASSIGNMENTS ARE PROHIBITED

FILE NAME	60223ERP18.DWG
LAYOUT	LAYOUT2
LOCATION	J:\60223\DWG\ERP\
PLOT DATE	MON. 10-21-2013 - 11:09 AM
PLOT BY	JEFF WASKO
DESIGN BY	

CROSS REFERENCED DRAWINGS

PLAN REVISIONS

PLAN STATUS

FOR EXHIBIT ONLY
NOT FOR CONSTRUCTION

TYPICAL SECTIONS

PROJECT / FILE NO.	SHEET NUMBER
60223	8

RECEIVED
OCT 21 2013
D.E.P. South District