
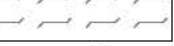
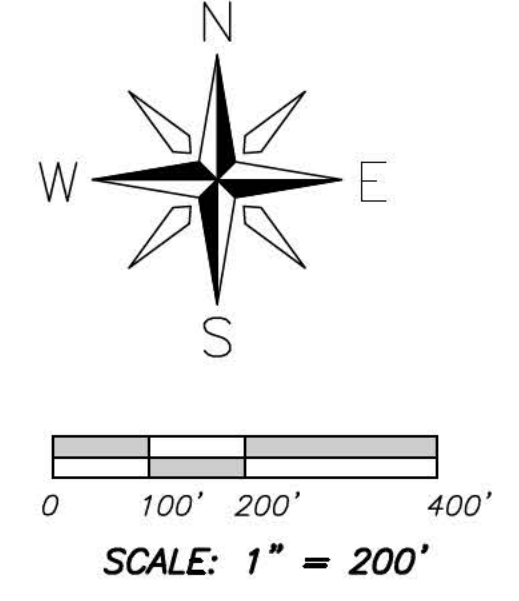



 Reviewed and Approved For:
Permit Issuance
PL20170004271 Date: 10/10/2019

- NOTES:
- FOR FLUCCS AND JURISDICTIONAL INFORMATION, REFER TO PLANS AND REPORT BY TURRELL, HALL & ASSOCIATES.
 - FOR REMAINING UNDEVELOPED LANDS PROPERTY EXTENTS, SEE SHEET 3.

 JURISDICTIONAL WETLANDS
 OPEN WATER
 x 6.5 DENOTES EXISTING GRADE ELEVATION

NOTE: ALL ELEVATIONS REFER TO NGVD 29, UNLESS OTHERWISE NOTED.
 FOR CONVERSION:
 NGVD - 1.22 = NAVD
 NAVD + 1.22 = NGVD



NOTE: SFWMD JURISDICTIONAL LINES HEREON AS SHOWN ON APPROVED ERP PLANS (PERMIT # 11-01882-P)

This item has been electronically signed and sealed by John R. Mueser, P.E. on 10/18/18, using a SHA-1 authentication code. Printed copies of this document are not considered signed and sealed and the SHA-1 authentication code must be verified on any electronic copies.

NO.	DATE	BY	REVISION
1	10/18	JW	REVISED PER COLLIER COUNTY COMMENTS

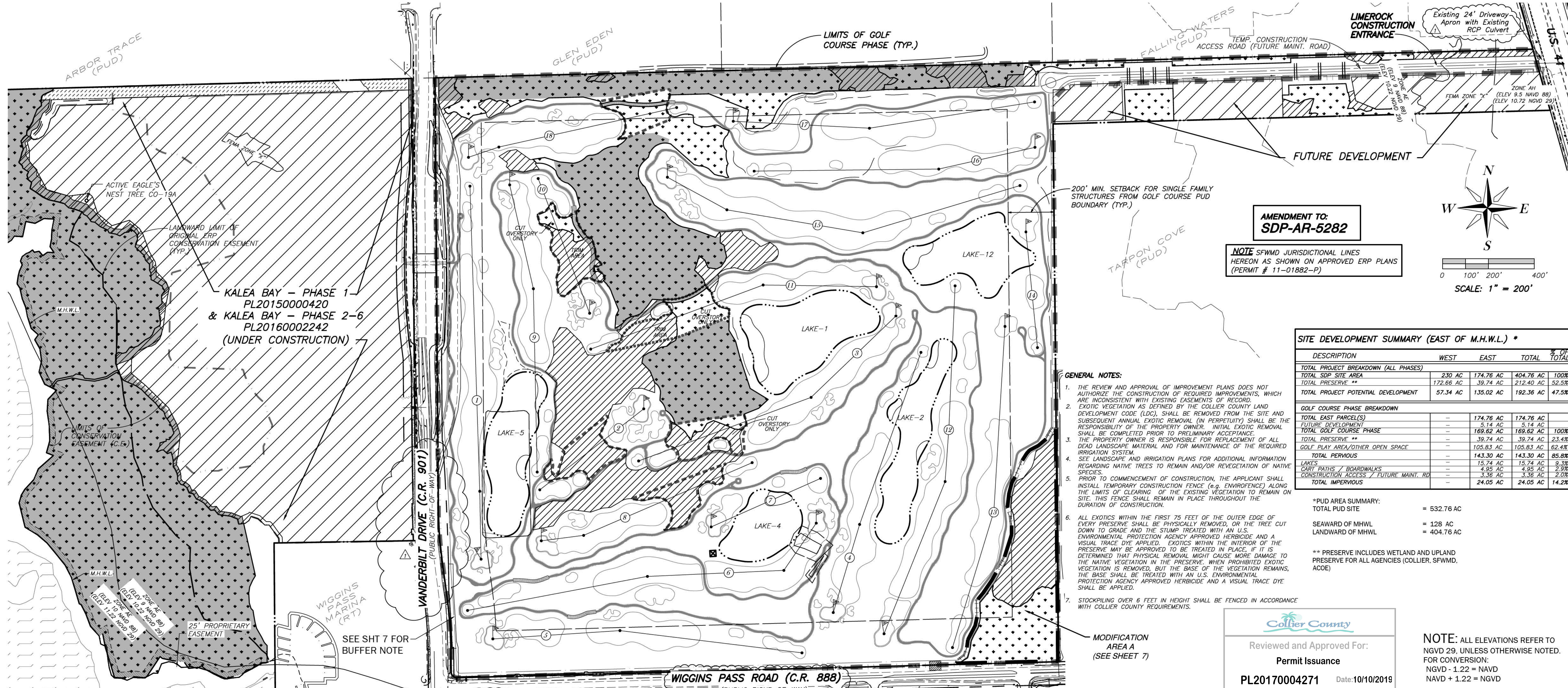
JOHN R. MUESER
 PROFESSIONAL ENGINEER
 STATE OF FLORIDA
 10/18/18


 5620 Sonnen Court
 Fort Myers, FL 33919
 C. A. #28291
 Project Management / Civil Engineering Solutions

PREPARED FOR:
Lodge/Abbott Investments Associates LLC
 3400 Lafayette Street
 Detroit, MI 48207
 313-567-7000

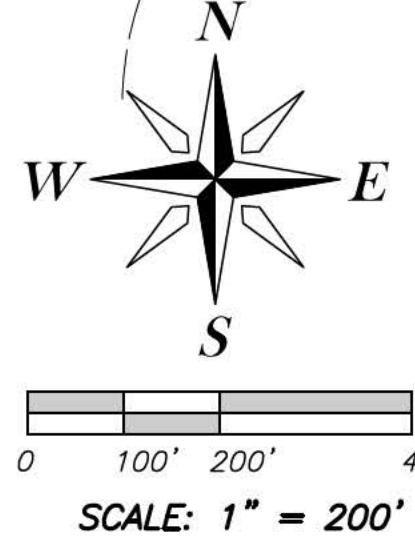
PROJECT & SHEET TITLE:
Kinsale Golf Course - S.D.P. Plans
 Sections 8,16,17&20, Township 48S, Range 25E
 Collier County, Florida
Existing Conditions & Topography

SCALE:	1" = 200'	ACAD NO:	1408A-EC
DRAWN:	JW	11-17-17	
CHECKED:	JW	11-17-17	
APPROVED:	JRM	11-17-17	
Sheet No.		2 of 11	



**AMENDMENT TO:
SDP-AR-5282**

NOTE SFWMD JURISDICTIONAL LINES
HEREON AS SHOWN ON APPROVED ERP PLANS
(PERMIT # 11-01882-P)



SITE DEVELOPMENT SUMMARY (EAST OF M.H.W.L.) *

DESCRIPTION	WEST	EAST	TOTAL	% OF TOTAL
TOTAL PROJECT BREAKDOWN (ALL PHASES)				
TOTAL SDP SITE AREA	230 AC	174.76 AC	404.76 AC	100%
TOTAL PRESERVE **	172.66 AC	39.74 AC	212.40 AC	52.5%
TOTAL PROJECT POTENTIAL DEVELOPMENT	57.34 AC	135.02 AC	192.36 AC	47.5%
GOLF COURSE PHASE BREAKDOWN				
TOTAL EAST PARCEL(S)	-	174.76 AC	174.76 AC	
FUTURE DEVELOPMENT	-	5.14 AC	5.14 AC	
TOTAL GOLF COURSE PHASE	-	169.62 AC	169.62 AC	100%
TOTAL PRESERVE **	-	39.74 AC	39.74 AC	23.4%
GOLF PLAY AREA/OTHER OPEN SPACE	-	105.83 AC	105.83 AC	62.4%
TOTAL PERVIOUS	-	143.30 AC	143.30 AC	85.8%
LAKES	-	15.74 AC	15.74 AC	9.3%
CART PATHS / BOARDWALKS	-	4.95 AC	4.95 AC	2.9%
CONSTRUCTION ACCESS / FUTURE MAINT. RD	-	3.36 AC	3.36 AC	2.0%
TOTAL IMPERVIOUS	-	24.05 AC	24.05 AC	14.2%

GENERAL NOTES:

- THE REVIEW AND APPROVAL OF IMPROVEMENT PLANS DOES NOT AUTHORIZE THE CONSTRUCTION OF REQUIRED IMPROVEMENTS, WHICH ARE INCONSISTENT WITH EXISTING EASEMENTS OF RECORD.
- EXOTIC VEGETATION AS DEFINED BY THE COLLIER COUNTY LAND DEVELOPMENT CODE (LDC), SHALL BE REMOVED FROM THE SITE AND SUBSEQUENT ANNUAL EXOTIC REMOVAL (IN PERPETUITY) SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER. INITIAL EXOTIC REMOVAL SHALL BE COMPLETED PRIOR TO PRELIMINARY ACCEPTANCE.
- THE PROPERTY OWNER IS RESPONSIBLE FOR REPLACEMENT OF ALL DEAD LANDSCAPE MATERIAL AND FOR MAINTENANCE OF THE REQUIRED IRRIGATION SYSTEM.
- SEE LANDSCAPE AND IRRIGATION PLANS FOR ADDITIONAL INFORMATION REGARDING NATIVE TREES TO REMAIN AND/OR REVEGETATION OF NATIVE SPECIES.
- PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE APPLICANT SHALL INSTALL TEMPORARY CONSTRUCTION FENCE (E.G. ENVROFENCE) ALONG THE LIMITS OF CLEARING OF THE EXISTING VEGETATION TO REMAIN ON SITE. THIS FENCE SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF CONSTRUCTION.
- ALL EXOTICS WITHIN THE FIRST 75 FEET OF THE OUTER EDGE OF EVERY PRESERVE SHALL BE PHYSICALLY REMOVED, OR THE TREE CUT DOWN TO GRADE AND THE STUMP TREATED WITH AN U.S. ENVIRONMENTAL PROTECTION AGENCY APPROVED HERBICIDE AND A VISUAL TRACE DYE APPLIED. EXOTICS WITHIN THE INTERIOR OF THE PRESERVE MAY BE APPROVED TO BE TREATED IN PLACE, IF IT IS DETERMINED THAT PHYSICAL REMOVAL MIGHT CAUSE MORE DAMAGE TO THE NATIVE VEGETATION IN THE PRESERVE. WHEN PROHIBITED EXOTIC VEGETATION IS REMOVED, BUT THE BASE OF THE VEGETATION REMAINS, THE BASE SHALL BE TREATED WITH AN U.S. ENVIRONMENTAL PROTECTION AGENCY APPROVED HERBICIDE AND A VISUAL TRACE DYE SHALL BE APPLIED.
- STOCKPILING OVER 6 FEET IN HEIGHT SHALL BE FENCED IN ACCORDANCE WITH COLLIER COUNTY REQUIREMENTS.

*PUD AREA SUMMARY:
TOTAL PUD SITE = 532.76 AC
SEAWARD OF MHWL = 128 AC
LANDWARD OF MHWL = 404.76 AC

** PRESERVE INCLUDES WETLAND AND UPLAND PRESERVE FOR ALL AGENCIES (COLLIER, SFWMD, ACOE)

Collier County
Reviewed and Approved For:
Permit Issuance
PL20170004271 Date: 10/10/2019

NOTE: ALL ELEVATIONS REFER TO NGVD 29, UNLESS OTHERWISE NOTED.
FOR CONVERSION:
NGVD - 1.22 = NAVD
NAVD + 1.22 = NGVD

CLEARING LIMITS SUMMARY GOLF COURSE SDP

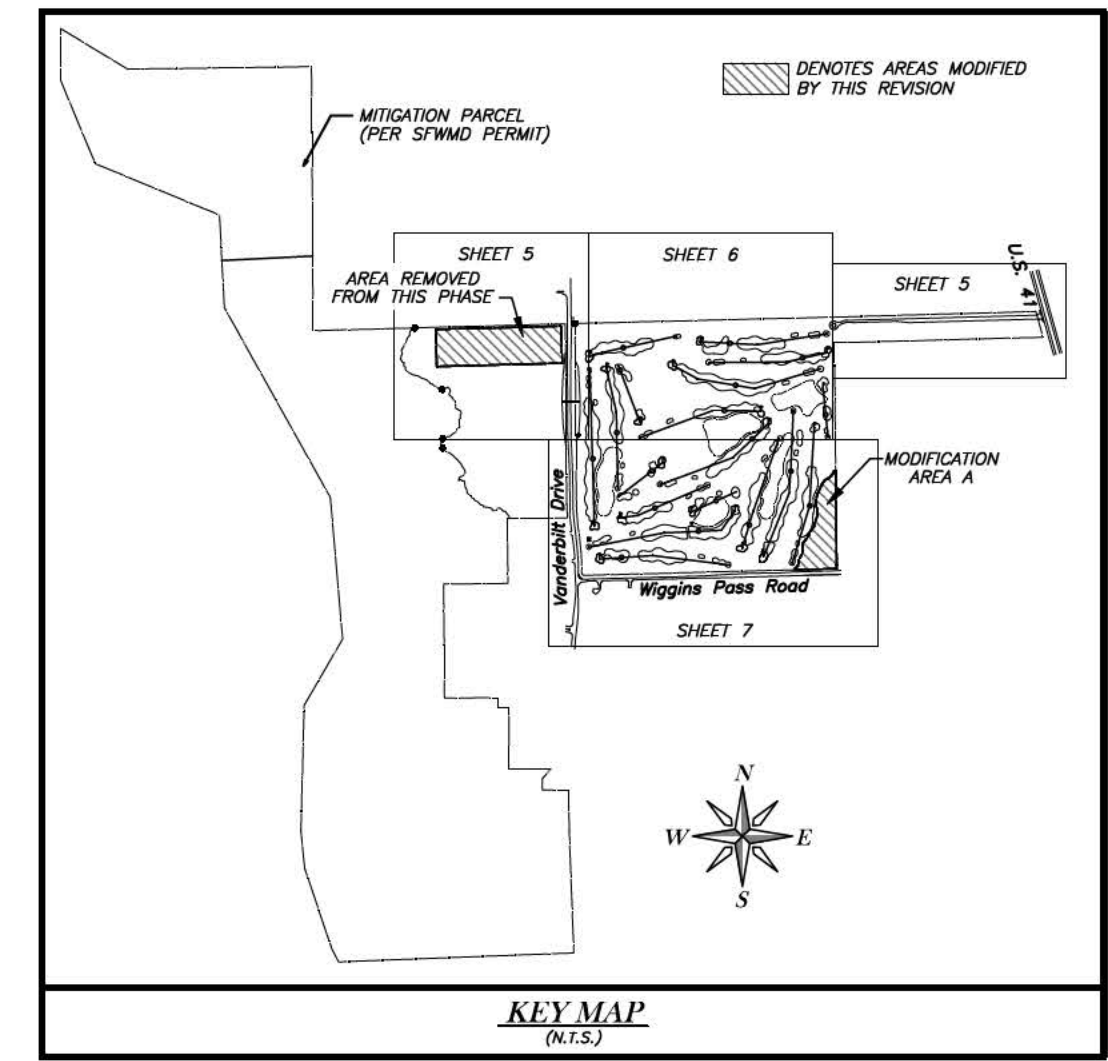
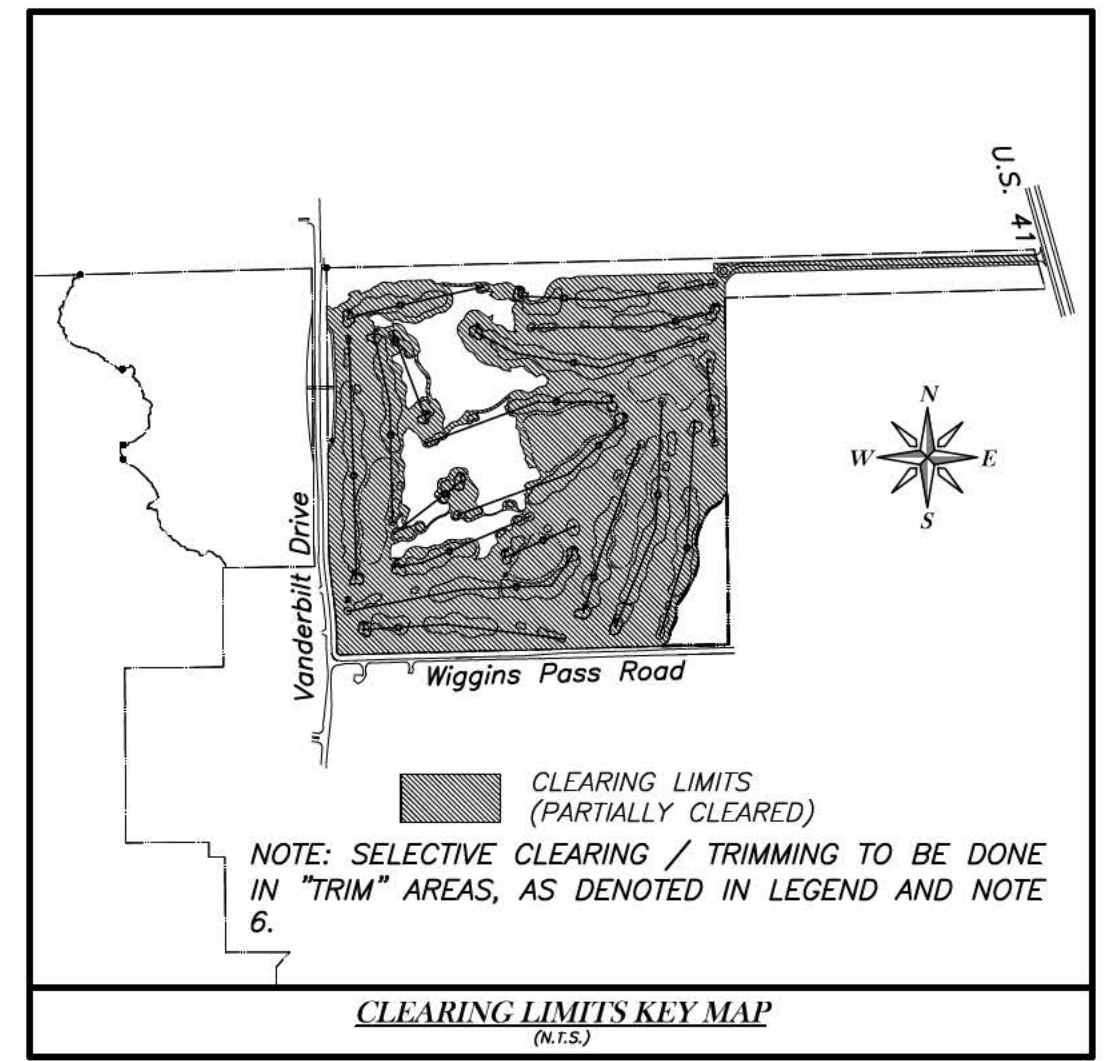
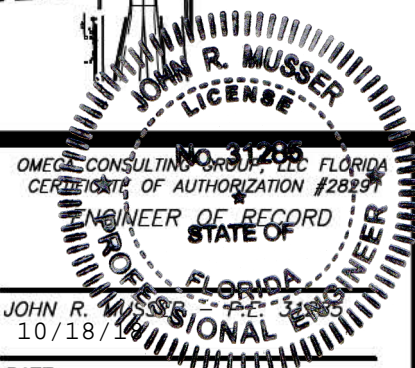
DESCRIPTION	AREA (ACRES)
GOLF COURSE	69.59
OTHER OPEN SPACE (TO BE CLEARED)	31.51
CARTPATHS / BOARDWALKS	4.95
LAKES	15.74
TEMP. ACCESS ROAD/SWALES	5.11
TOTAL AREA TO BE CLEARED	126.9

NOTE: COUNTY PERMIT TO PERFORM WORK AND/OR MAINTENANCE IN PUBLIC RIGHT-OF-WAY IS REQUIRED FOR WORK WITHIN THE PUBLIC ROAD RIGHT-OF-WAY ON WIGGINS OR VANDERBILT DRIVE.

LEGEND:

- PRESERVE AREAS (EAST OF THE M.H.W.L.)
- WETLAND PRESERVE
- UPLAND PRESERVE
- WATER
- LITTORAL SHELF
- DENOTES LIMITS WHERE CUTTING OF OVERSTORY & TRIMMING IS PERMITTED WITHIN THE PRESERVES (SEE NOTE 6 REGARDING TRIMMING)

This item has been electronically signed and sealed by John R. Musser, P.E. on 10/18/18, using a SHA-1 authentication code. Printed copies of this document are not considered signed and sealed and the SHA-1 authentication code must be verified on any electronic copies.



NO.	DATE	BY	REVISION
1	10/18	JW	REVISED PER COLLIER COUNTY COMMENTS

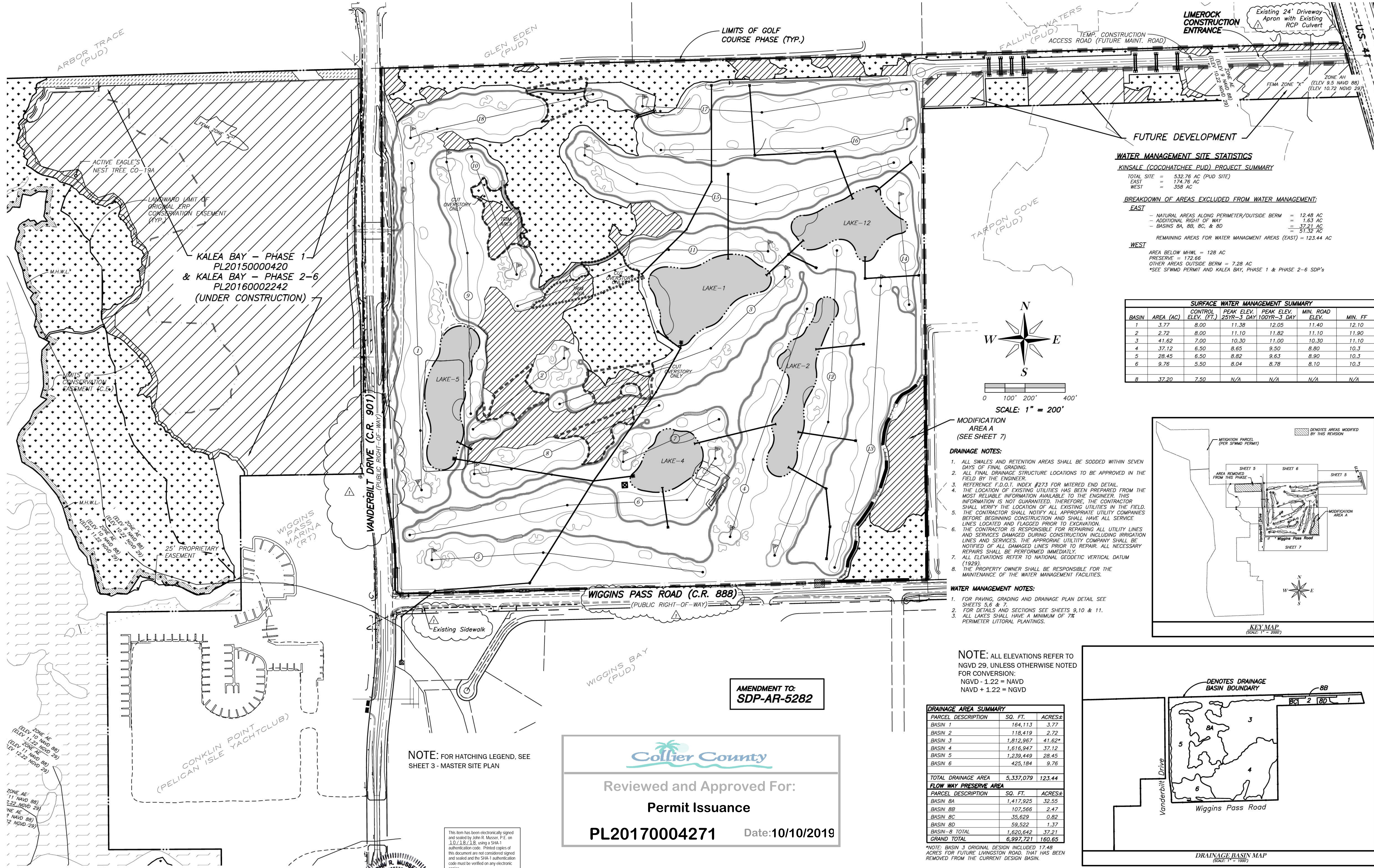
NOTE: The information shown on these plans is subject to change. It is the recipient's responsibility to verify all information prior to commencement of planning, engineering and/or construction.

Omega Consulting Group
5620 Sonnen Court
Fort Myers, FL 33919
C. A. #28291
Project Management / Civil Engineering Solutions

PREPARED FOR:
Lodge/Abbott Investments Associates LLC
3400 Lafayette Street
Detroit, MI 48207
313-567-7000

PROJECT & SHEET TITLE:
Kinsale Golf Course - S.D.P. Plans
Sections 8, 16, 17 & 20, Township 48S, Range 25E
Collier County, Florida
Master Site Plan/ Clearing Plan

SCALE: 1" = 200'
ACAD NO: 1408A-SP
SHEET NO. **3** of **11**



WATER MANAGEMENT SITE STATISTICS
KINSALE (COCOHATCHEE PUD) PROJECT SUMMARY

TOTAL SITE = 532.76 AC (PUD SITE)
 EAST = 174.76 AC
 WEST = 358 AC

BREAKDOWN OF AREAS EXCLUDED FROM WATER MANAGEMENT:

EAST

- NATURAL AREAS ALONG PERIMETER/OUTSIDE BERM = 12.48 AC
- ADDITIONAL RIGHT OF WAY = 1.63 AC
- BASINS BA, BB, BC, & BD = 37.21 AC
- REMAINING AREAS FOR WATER MANAGEMENT AREAS (EAST) = 123.44 AC

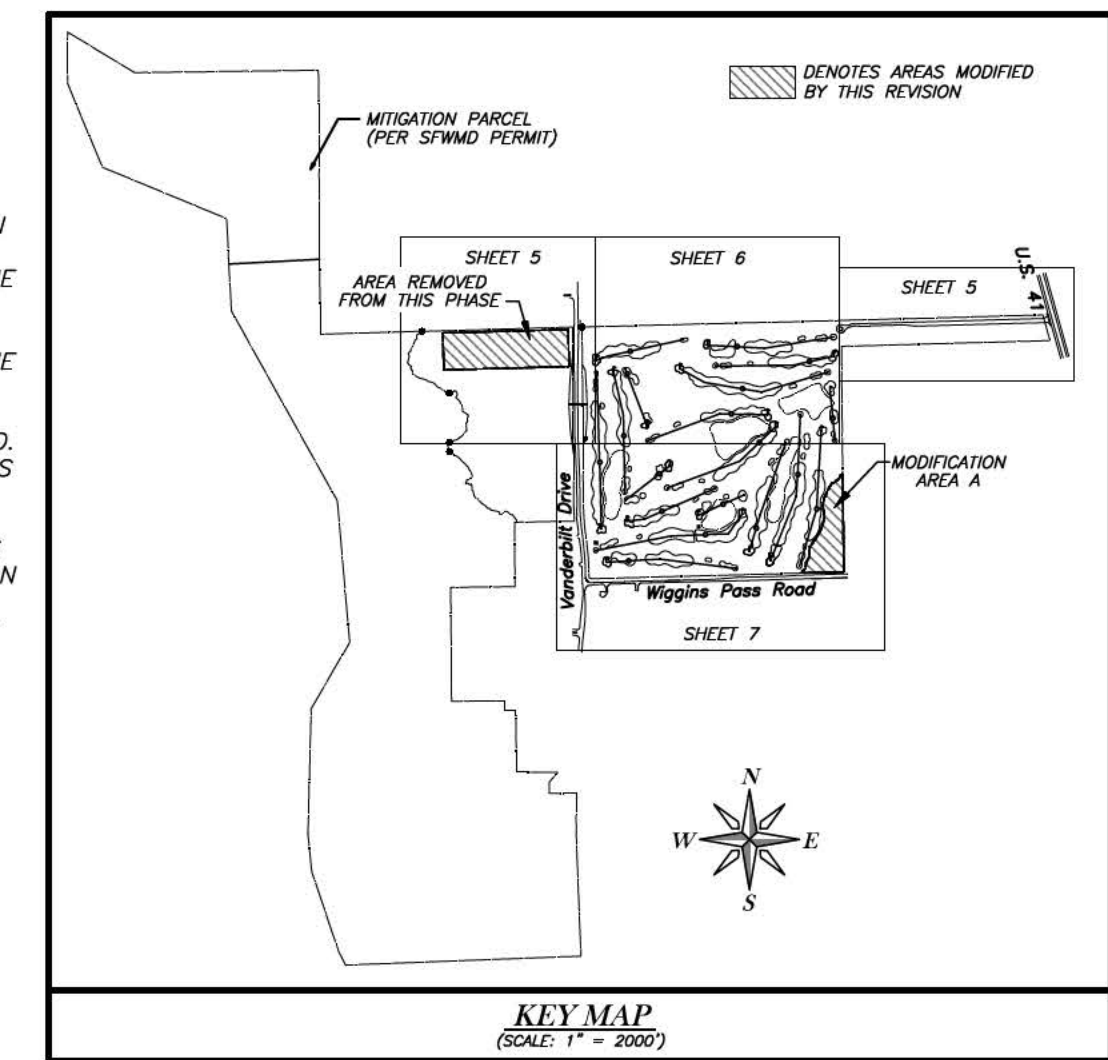
WEST

- AREA BELOW MHWL = 128 AC
- PRESERVE = 172.66
- OTHER AREAS OUTSIDE BERM = 7.28 AC
- *SEE SFWMD PERMIT AND KALEA BAY, PHASE 1 & PHASE 2-6 SDP'S

SURFACE WATER MANAGEMENT SUMMARY

BASIN	AREA (AC)	CONTROL ELEV. (FT.)	PEAK ELEV. 25YR-3 DAY 100YR-3 DAY	PEAK ELEV. 100YR-3 DAY	MIN. ROAD ELEV.	MIN. FF
1	3.77	8.00	11.38	12.05	11.40	12.10
2	2.72	8.00	11.10	11.82	11.10	11.90
3	41.62	7.00	10.30	11.00	10.30	11.10
4	37.12	6.50	8.65	9.50	8.80	10.3
5	28.45	6.50	8.82	9.63	8.90	10.3
6	9.76	5.50	8.04	8.78	8.10	10.3
8	37.20	7.50	N/A	N/A	N/A	N/A

- MODIFICATION AREA A (SEE SHEET 7)**
- DRAINAGE NOTES:**
- ALL SWALES AND RETENTION AREAS SHALL BE SODED WITHIN SEVEN DAYS OF FINAL GRADING.
 - ALL FINAL DRAINAGE STRUCTURE LOCATIONS TO BE APPROVED IN THE FIELD BY THE ENGINEER.
 - REFERENCE F.D.O.T. INDEX #273 FOR MITERED END DETAIL.
 - THE LOCATION OF EXISTING UTILITIES HAS BEEN PREPARED FROM THE MOST RELIABLE INFORMATION AVAILABLE TO THE ENGINEER. THIS INFORMATION IS NOT GUARANTEED. THEREFORE, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES IN THE FIELD.
 - THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE UTILITY COMPANIES BEFORE BEGINNING CONSTRUCTION AND SHALL HAVE ALL SERVICE LINES LOCATED AND FLAGGED PRIOR TO EXCAVATION.
 - THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL UTILITY LINES AND SERVICES DAMAGED DURING CONSTRUCTION INCLUDING IRRIGATION LINES AND SERVICES. THE APPROPRIATE UTILITY COMPANY SHALL BE NOTIFIED OF ALL DAMAGED LINES PRIOR TO REPAIR. ALL NECESSARY REPAIRS SHALL BE PERFORMED IMMEDIATELY.
 - ALL ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM (1929).
 - THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE WATER MANAGEMENT FACILITIES.
- WATER MANAGEMENT NOTES:**
- FOR PAVING, GRADING AND DRAINAGE PLAN DETAIL SEE SHEETS 5, 6 & 7.
 - FOR DETAILS AND SECTIONS SEE SHEETS 9, 10 & 11.
 - ALL LAKES SHALL HAVE A MINIMUM OF 7% PERIMETER LITTORAL PLANTINGS.



NOTE: ALL ELEVATIONS REFER TO NGVD 29, UNLESS OTHERWISE NOTED FOR CONVERSION:
 NGVD - 1.22 = NAVD
 NAVD + 1.22 = NGVD

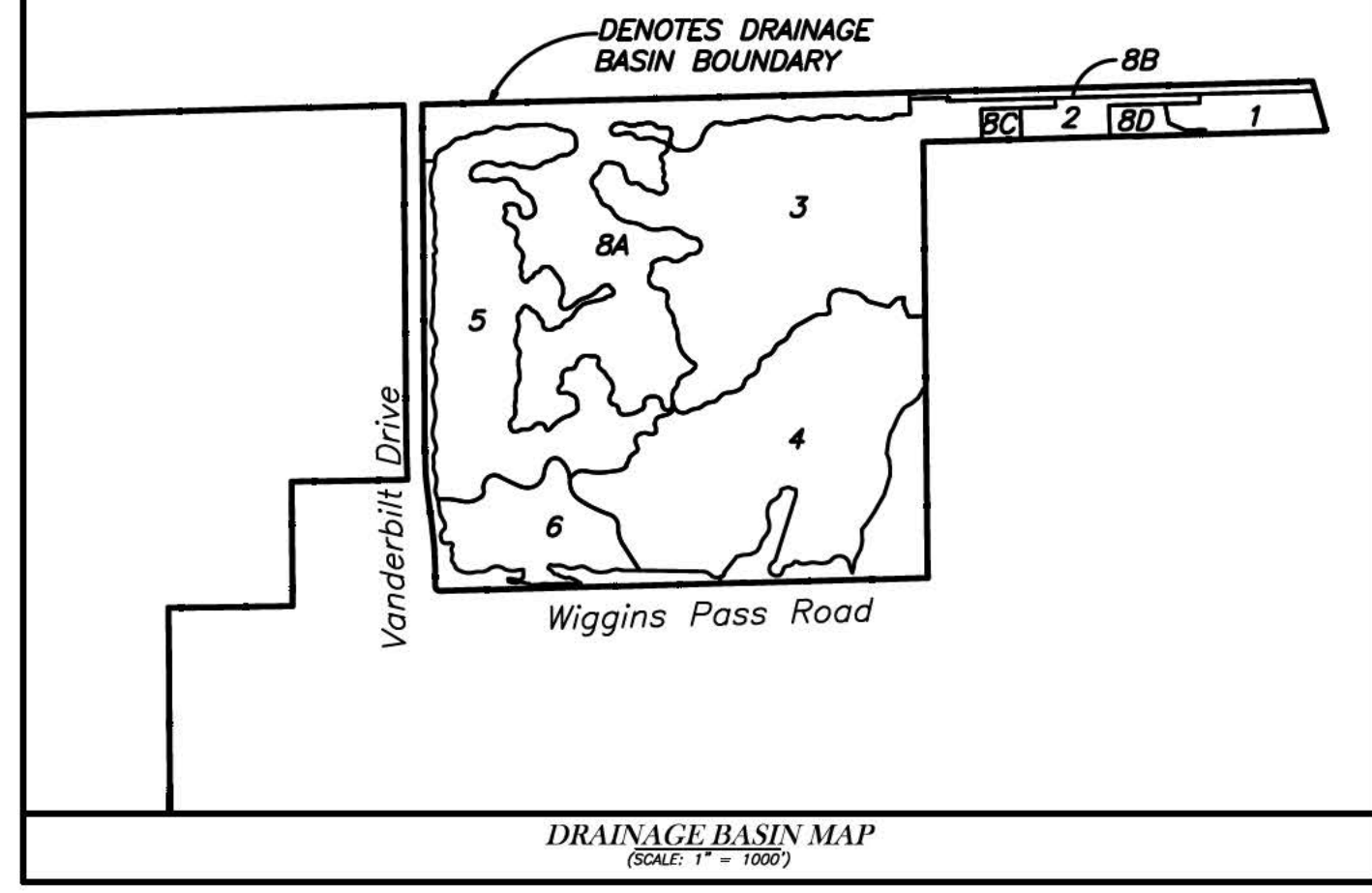
DRAINAGE AREA SUMMARY

PARCEL DESCRIPTION	SQ. FT.	ACRES±
BASIN 1	164,113	3.77
BASIN 2	118,419	2.72
BASIN 3	1,812,967	41.62*
BASIN 4	1,616,947	37.12
BASIN 5	1,239,449	28.45
BASIN 6	425,184	9.76
TOTAL DRAINAGE AREA	5,337,079	123.44

FLOW WAY PRESERVE AREA

PARCEL DESCRIPTION	SQ. FT.	ACRES±
BASIN BA	1,417,925	32.55
BASIN BB	107,566	2.47
BASIN BC	35,629	0.82
BASIN BD	59,522	1.37
BASIN-B TOTAL	1,620,642	37.21
GRAND TOTAL	6,997,721	160.65

*NOTE: BASIN 3 ORIGINAL DESIGN INCLUDED 17.48 ACRES FOR FUTURE LIVINGSTON ROAD. THAT HAS BEEN REMOVED FROM THE CURRENT DESIGN BASIN.



NO.	DATE	BY	REVISION
1	10/18	JW	REVISED PER COLLIER COUNTY COMMENTS

NOTE: The information shown on these plans is the recipient's responsibility to verify all information prior to commencement of planning, engineering and/or construction.

**AMENDMENT TO:
SDP-AR-5282**

Collier County

Reviewed and Approved For:

Permit Issuance

PL20170004271 Date: 10/10/2019

Omega Consulting Group
 5620 Sonnen Court
 Fort Myers, FL 33919
 C. A. #28291
 Project Management / Civil Engineering Solutions

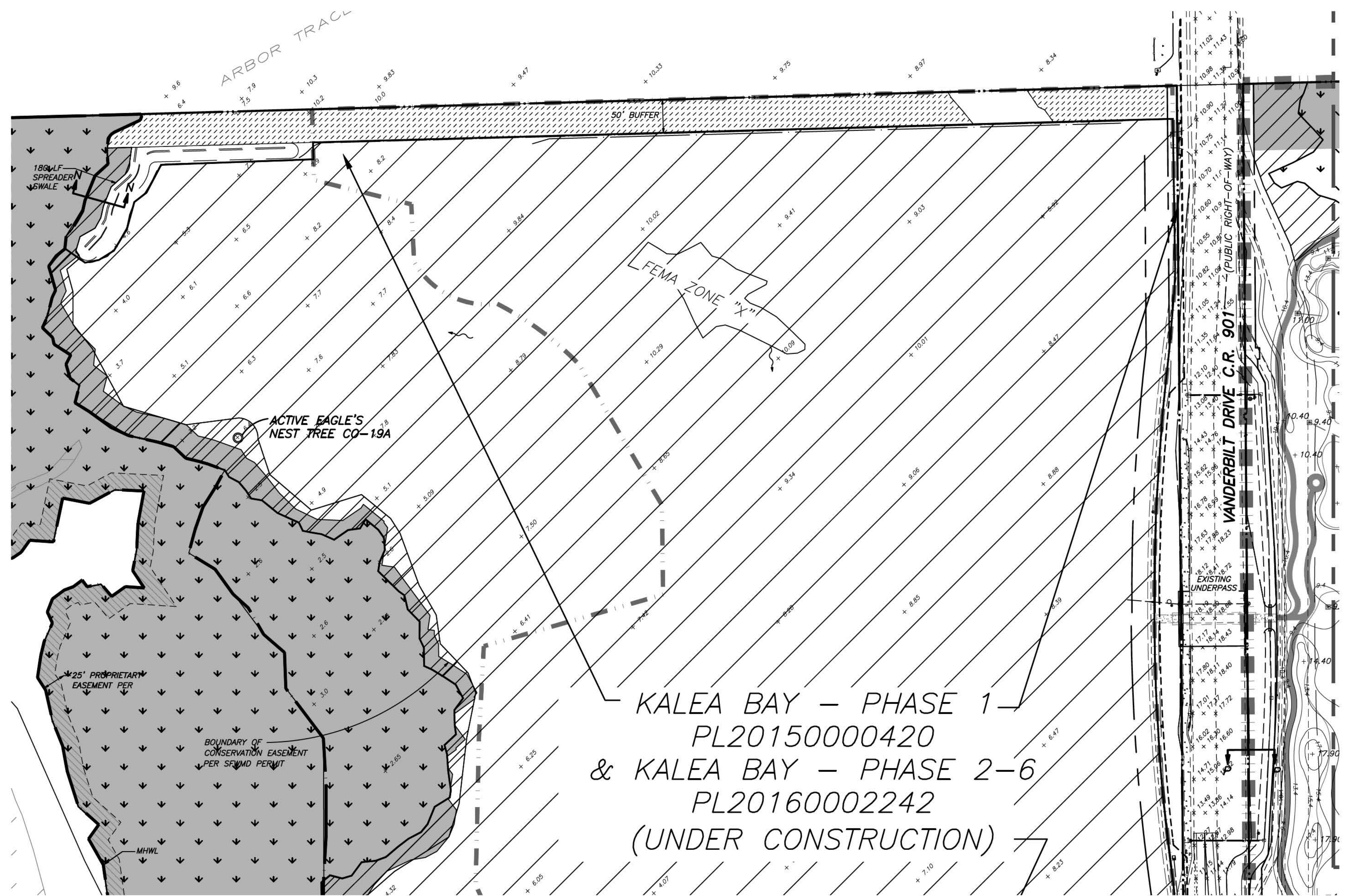
Lodge/Abbott Investments Associates LLC
 3400 Lafayette Street
 Detroit, MI 48207
 313-567-7000

PROJECT & SHEET TITLE:
Kinsale Golf Course - S.D.P. Plans
 Sections 8, 16, 17 & 20, Township 48S, Range 25E
 Collier County, Florida

Master Water Management Plan

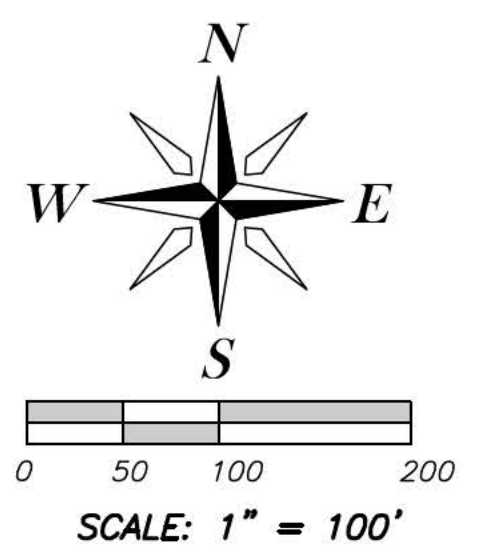
SCALE: 1" = 200'
DATE: 11-17-17
CHECKED: JW 11-17-17
APPROVED: JRM 11-17-17

ACAD NO: 1408A-SP
 PROJECT NO: 1408-A
Sheet No. 4 of 11



- LEGEND**
- EXISTING GRADE
 - U.S. UPSTREAM
 - D.S. DOWNSTREAM
 - INV. INVERT
 - RCP REINFORCED CONCRETE PIPE
 - PE PIPE END
 - SURFACE FLOW DIRECTION
 - GOLF CART PATH
 - CONTOUR LINE W/ELEVATION
 - SWALE
 - 25 YEAR BERM
 - LAKE EDGE
 - GOLF COURSE DISCHARGE PIPES & INLETS (SIZED BY GOLF COURSE ARCHITECT)

NOTE: FOR HATCHING LEGEND, SEE SHEET 3 - MASTER SITE PLAN



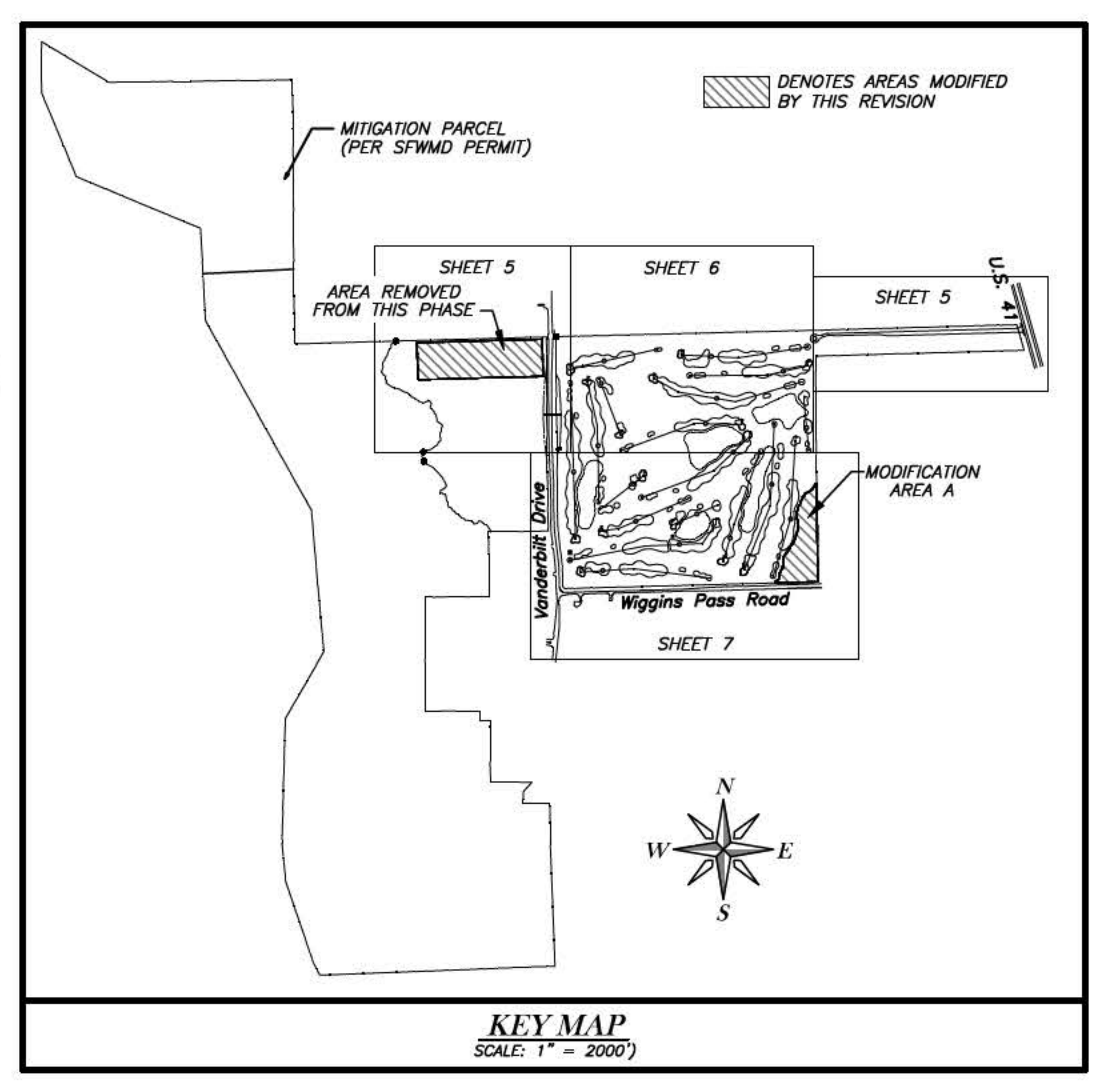
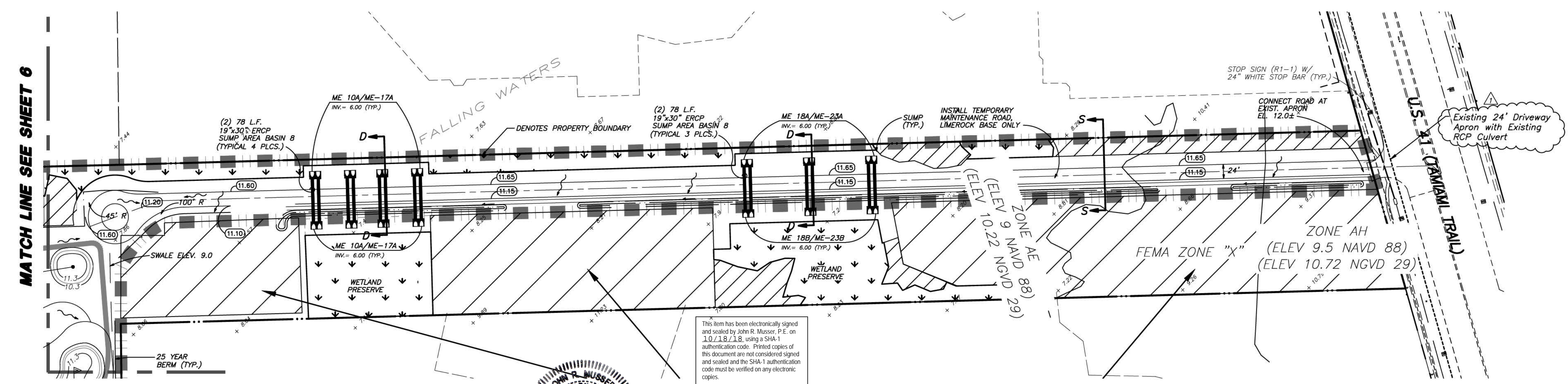
AMENDMENT TO:
SDP-AR-5282

NOTE:
SEE SHEETS 10 AND 11 FOR CROSS SECTIONS.

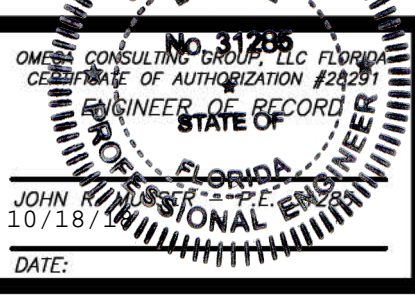
KALEA BAY - PHASE 1
PL20150000420
& KALEA BAY - PHASE 2-6
PL20160002242
(UNDER CONSTRUCTION)


Reviewed and Approved For:
Permit Issuance
PL20170004271 Date: 10/10/2019

NOTE: ALL ELEVATIONS REFER TO NGVD 29, UNLESS OTHERWISE NOTED.
FOR CONVERSION:
NGVD - 1.22 = NAVD
NAVD + 1.22 = NGVD



NO.	DATE	BY	REVISION
1	10/18	JW	REVISED PER COLLIER COUNTY COMMENTS



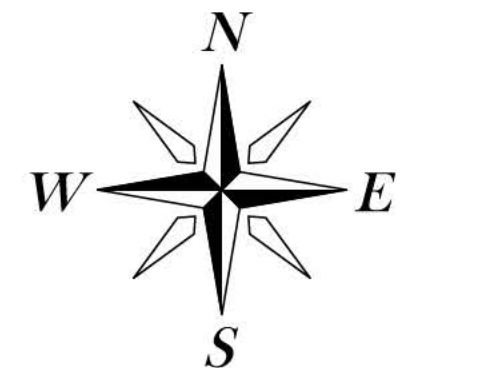
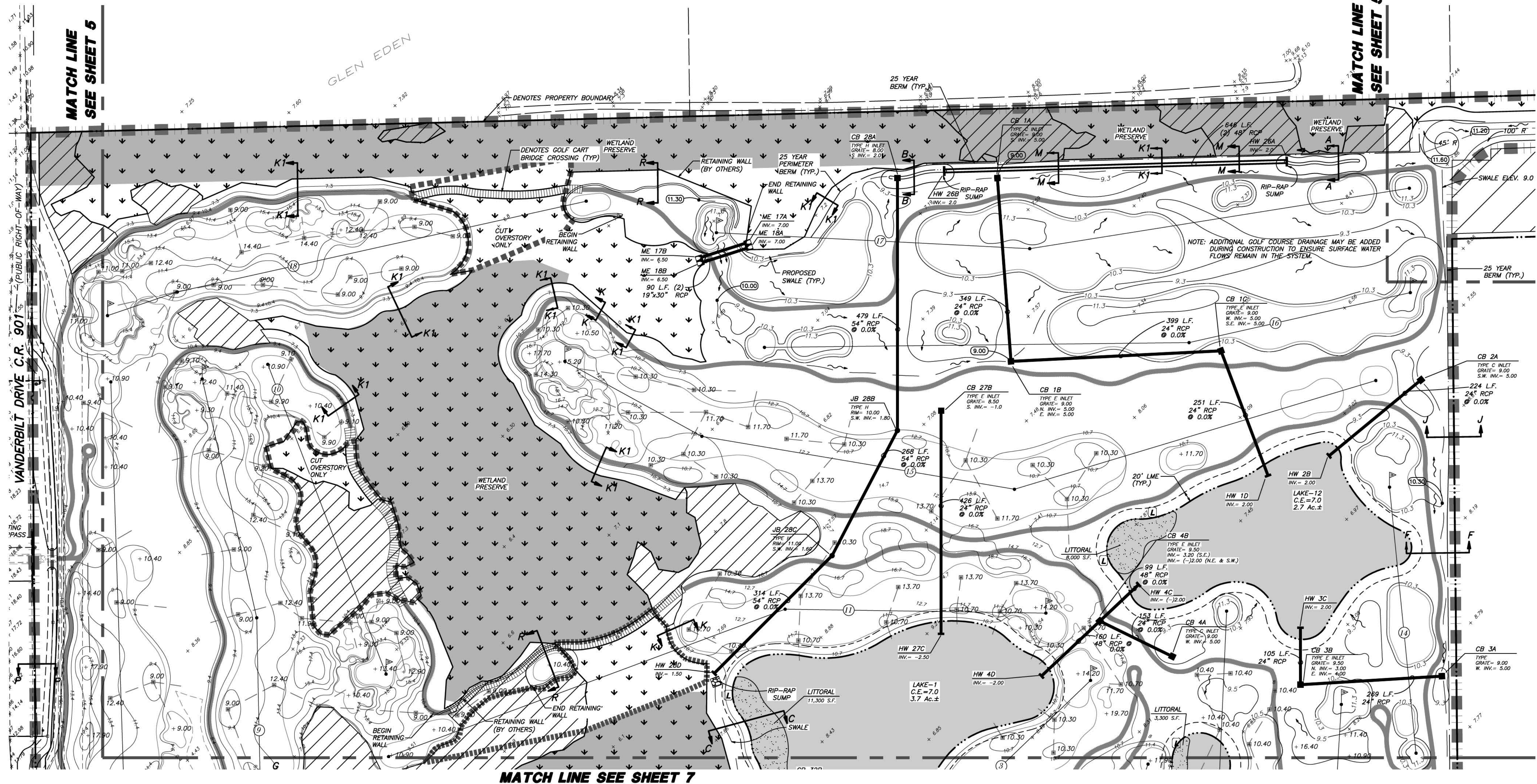
NOTE:
The information shown on these plans is the responsibility of the recipient. It is the recipient's responsibility to verify all information prior to commencement of planning, engineering and/or construction.

Omega Consulting Group
5620 Sonnen Court
Fort Myers, FL 33919
C. A. #28291
Project Management / Civil Engineering Solutions

PREPARED FOR:
Lodge/Abbott Investments Associates LLC
3400 Lafayette Street
Detroit, MI 48207
313-567-7000

PROJECT & SHEET TITLE:
Kinsale Golf Course - S.D.P. Plans
Sections 8, 16, 17 & 20, Township 48S, Range 25E
Collier County, Florida
Water Management Plan (West/Access)

SCALE:	1" = 100'	ACAD NO:	1408A-SP
DRAWN:	JW	11-17-17	
CHECKED:	JW	11-17-17	
APPROVED:	JRM	11-17-17	
PROJECT NO:			1408-A
SHEET NO.			5 of 11



SCALE: 1" = 100'

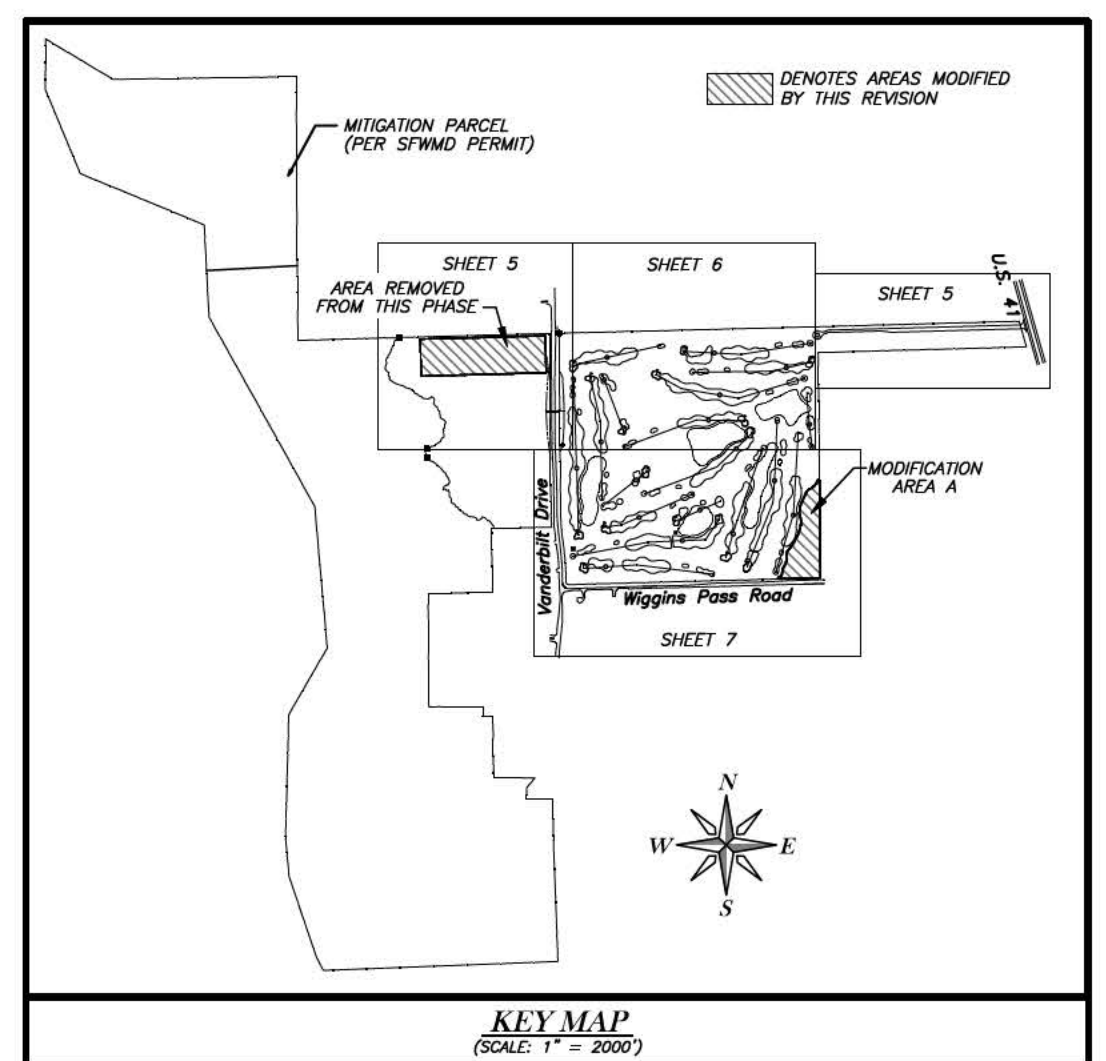
NOTE: SEE SHEETS 10 AND 11 FOR CROSS SECTIONS.

- LEGEND**
- EXISTING GRADE
 - UPSTREAM
 - DOWNSTREAM
 - INVERT
 - REINFORCED CONCRETE PIPE
 - PIPE END
 - SURFACE FLOW DIRECTION
 - GOLF CART PATH
 - CONTOUR LINE W/ELEVATION
 - SWALE
 - 25 YEAR BERM
 - LAKE EDGE
 - GOLF COURSE DISCHARGE PIPES & INLETS (SIZED BY GOLF COURSE ARCHITECT)


NOTE: FOR HATCHING LEGEND, SEE SHEET 3 - MASTER SITE PLAN

NOTE: DENOTES LOCATION FOR A LSPA SIGN. SEE SHEET 10 FOR SIGN DETAILS.

MATCH LINE SEE SHEET 7

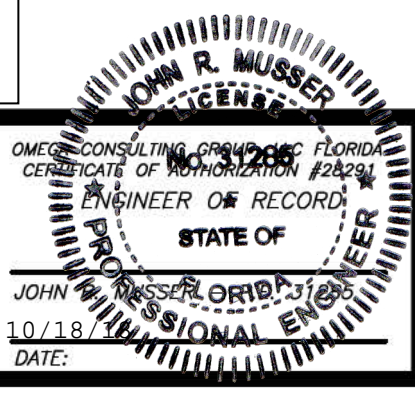


AMENDMENT TO:
SDP-AR-5282


 Reviewed and Approved For:
Permit Issuance
PL20170004271 Date: 10/10/2019

NOTE: ALL ELEVATIONS REFER TO NGVD 29, UNLESS OTHERWISE NOTED.
FOR CONVERSION:
NGVD - 1.22 = NAVD
NAVD + 1.22 = NGVD

This item has been electronically signed and sealed by John R. Musser, P.E. on 10/13/2019 using a SHA-1 authentication code. Printed copies of this document are not considered signed and sealed and the SHA-1 authentication code must be verified on any electronic copies.



NOTE: The information shown on these plans is subject to change. It is the recipient's responsibility to verify all information prior to commencement of planning, engineering and/or construction.

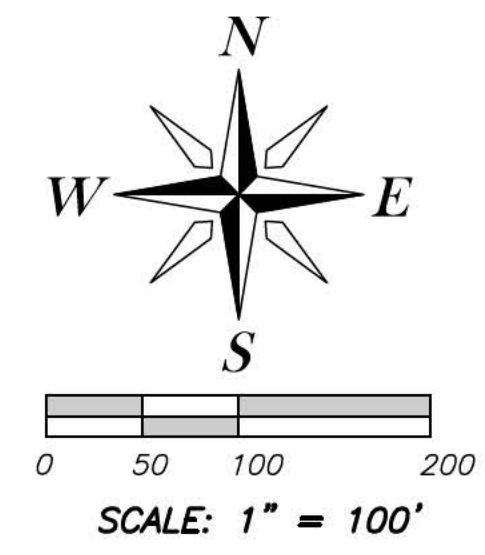
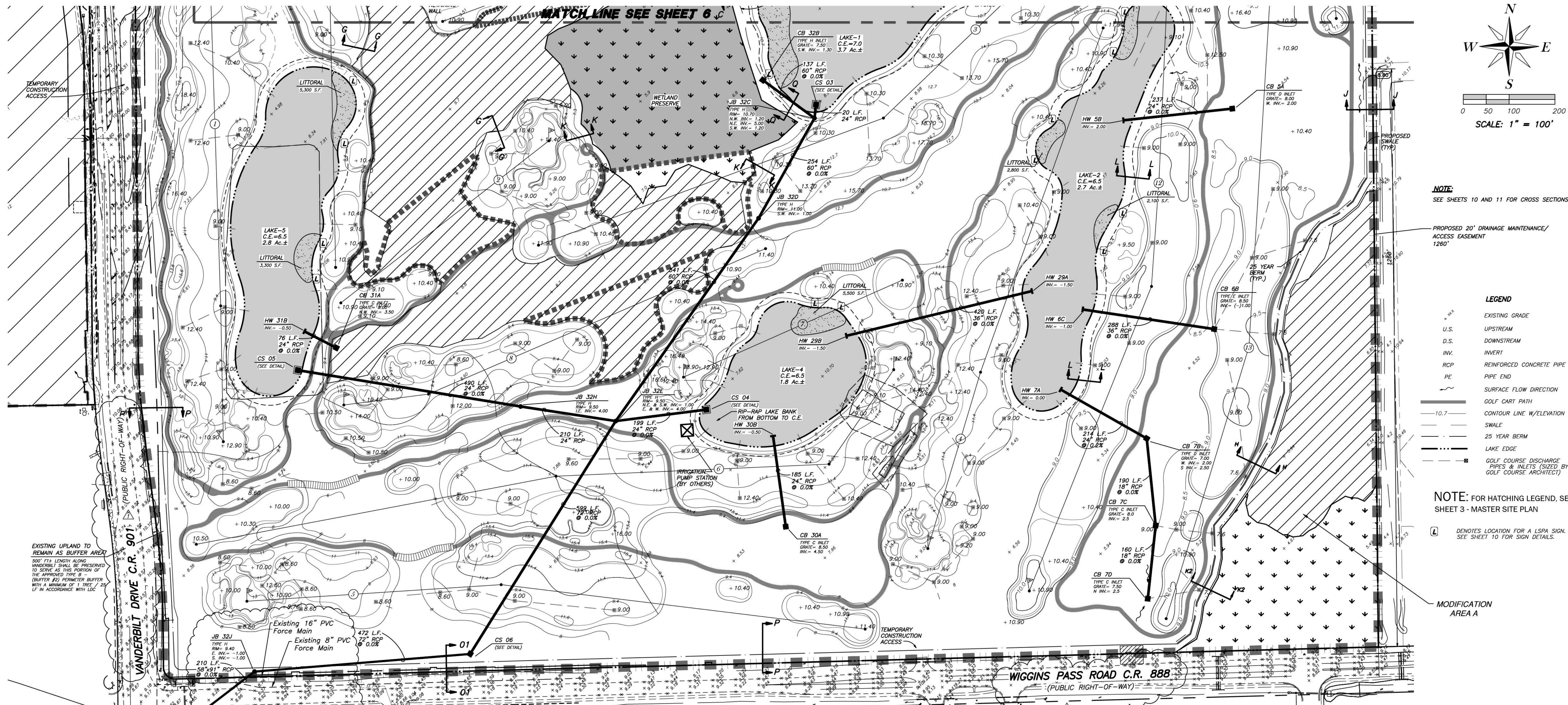
Omega Consulting Group
5620 Sonnen Court
Fort Myers, FL 33919
C. A. #28291
Project Management / Civil Engineering Solutions

PREPARED FOR:
Lodge/Abbott Investments Associates LLC
3400 Lafayette Street
Detroit, MI 48207
313-567-7000

PROJECT & SHEET TITLE:
Kinsale Golf Course - S.D.P. Plans
Sections 8, 16, 17 & 20, Township 48S, Range 25E
Collier County, Florida
Water Management Plan (North)

SCALE:	1" = 100'	ACAD NO:	1408A-SP
DRAWN:	JW	11-17-17	
CHECKED:	JW	11-17-17	
APPROVED:	JRM	11-17-17	
PROJECT NO:			1408-A
SHEET NO.			6 of 11

NO.	DATE	BY	REVISION
1	10/18	JW	REVISED PER COLLIER COUNTY COMMENTS



NOTE:
SEE SHEETS 10 AND 11 FOR CROSS SECTIONS.

PROPOSED 20' DRAINAGE MAINTENANCE/
ACCESS EASEMENT
1260'

- LEGEND**
- EXISTING GRADE
 - U.S. UPSTREAM
 - D.S. DOWNSTREAM
 - INV. INVERT
 - RCP REINFORCED CONCRETE PIPE
 - PE PIPE END
 - SURFACE FLOW DIRECTION
 - GOLF CART PATH
 - CONTOUR LINE W/ELEVATION
 - SWALE
 - 25 YEAR BERM
 - LAKE EDGE
 - GOLF COURSE DISCHARGE PIPES & INLETS (SIZED BY GOLF COURSE ARCHITECT)

NOTE: FOR HATCHING LEGEND, SEE SHEET 3 - MASTER SITE PLAN

L DENOTES LOCATION FOR A LSPA SIGN. SEE SHEET 10 FOR SIGN DETAILS.

MODIFICATION AREA A

VANDERBILT DRIVE C.R. 901 (PUBLIC RIGHT-OF-WAY)

WIGGINS PASS ROAD C.R. 888 (PUBLIC RIGHT-OF-WAY)

GULF HARBOR ROAD (60' R.O.W.)

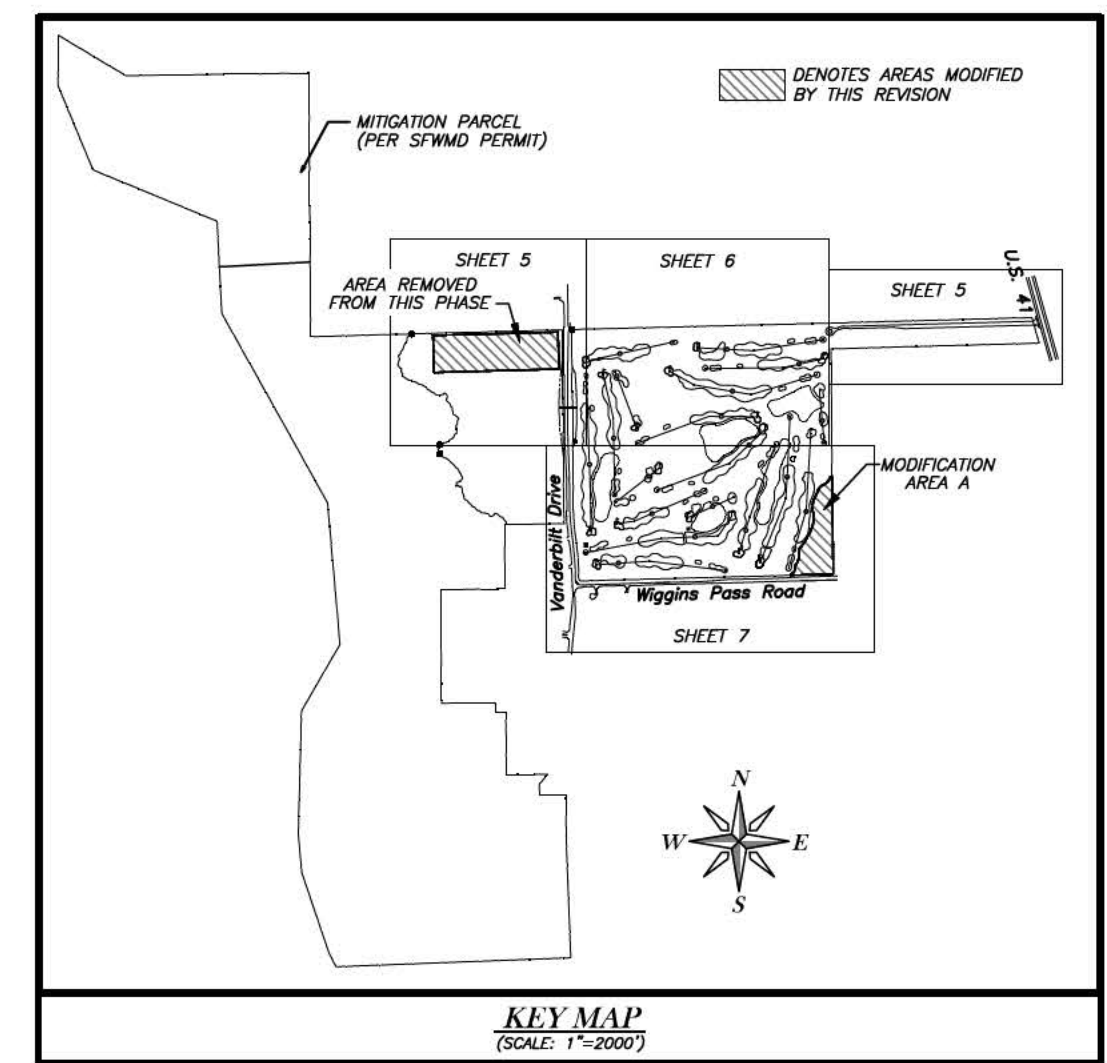
EXISTING UPLAND TO REMAIN AS BUFFER AREA
500' FT. LENGTH ALONG VANDERBILT SHALL BE PRESERVED TO SERVE AS THIS PORTION OF THE APPROVED TYPE B (BUFFER #2) PERIMETER BUFFER WITH A MINIMUM OF 1 TREE / 25 LF IN ACCORDANCE WITH LDC

Existing 16" PVC Force Main
Existing 8" PVC Force Main

Existing 12" PVC Water Main
Existing Sidewalk

SEE SHEET 10 FOR DETAIL OF STORM CROSSING

TRACT 10 WIGGINS BAY PHASE 1
TRACT 2C WIGGINS BAY PHASE 1
TRACT 1 WIGGINS BAY PHASE 1

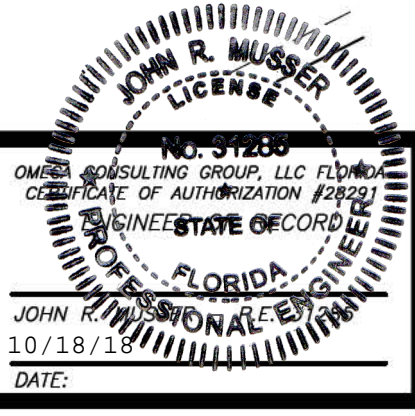


NOTE: ALL ELEVATIONS REFER TO NGVD 29, UNLESS OTHERWISE NOTED.
FOR CONVERSION:
NGVD - 1.22 = NAVD
NAVD + 1.22 = NGVD

Collier County
Reviewed and Approved For:
Permit Issuance
PL20170004271 Date: 10/10/2019

**AMENDMENT TO:
SDP-AR-5282**

NO.	DATE	BY	REVISION
1	10/18	JW	REVISED PER COLLIER COUNTY COMMENTS



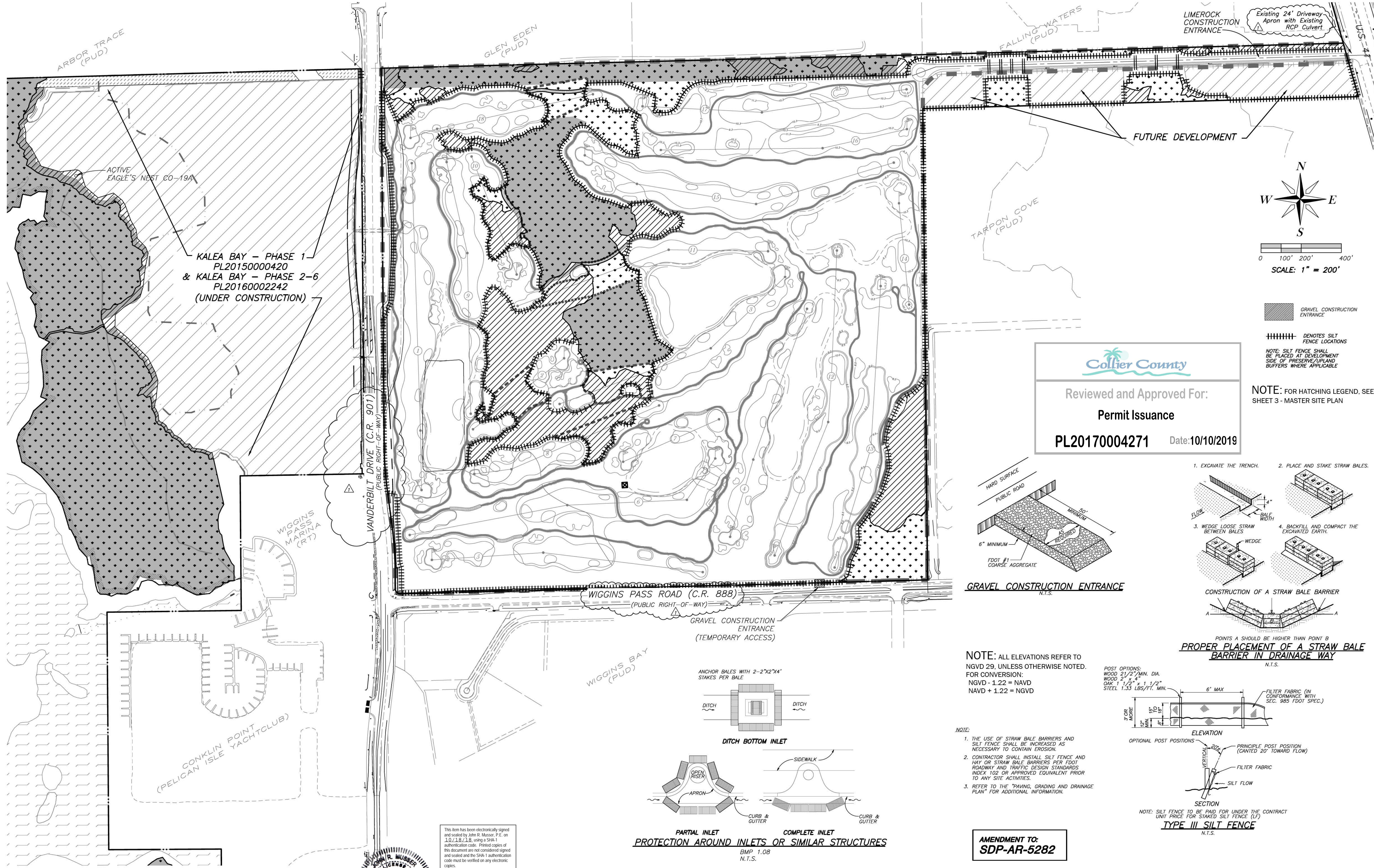
NOTE:
The information shown on these plans is the subject's responsibility to verify all information prior to commencement of planning, engineering and/or construction.

Omega Consulting Group
5620 Sonnen Court
Fort Myers, FL 33919
C.A. #28291
Project Management / Civil Engineering Solutions

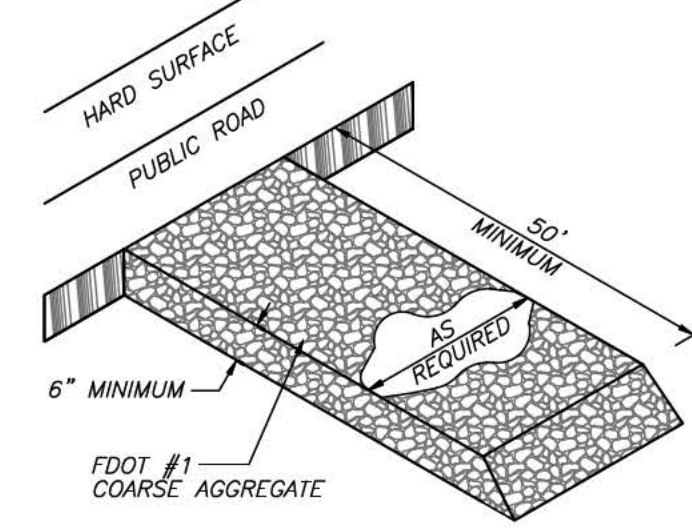
PREPARED FOR:
Lodge/Abbott Investments Associates LLC
3400 Lafayette Street
Detroit, MI 48207
313-567-7000

PROJECT & SHEET TITLE:
Kinsale Golf Course - S.D.P. Plans
Sections 8,16,17&20, Township 48S, Range 25E
Collier County, Florida
Water Management Plan (South)

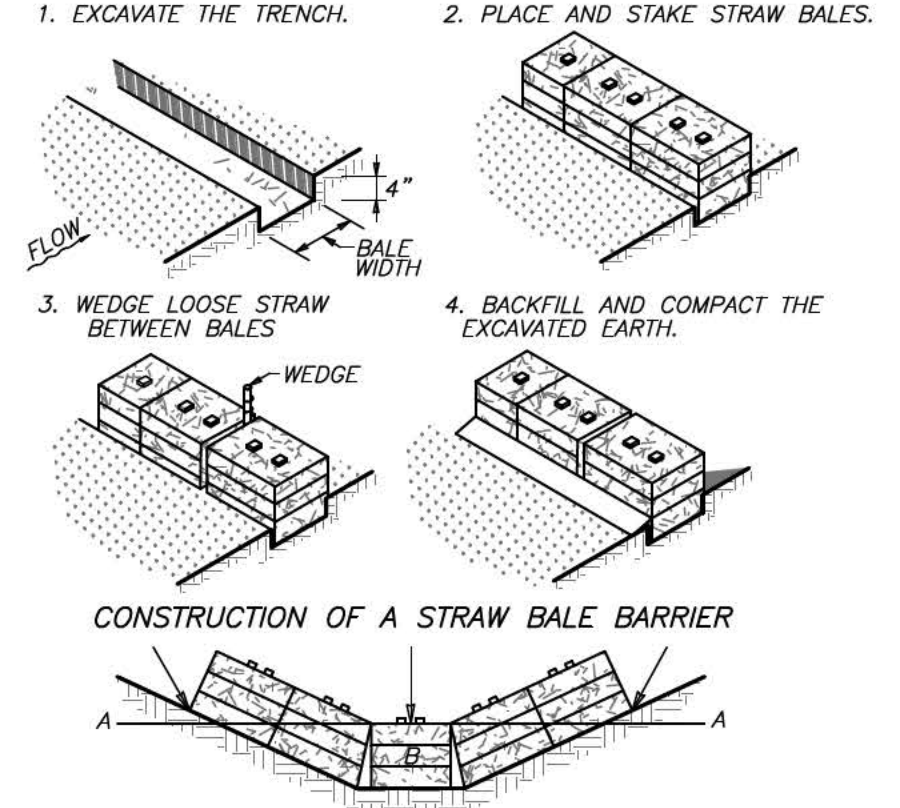
SCALE:	1" = 100'	ACAD NO:	1408A-SP
DRAWN:	JW	11-17-17	
CHECKED:	JW	11-17-17	
APPROVED:	JRM	11-17-17	
SHEET NO.	7 of 11		



Collier County
 Reviewed and Approved For:
Permit Issuance
PL20170004271 Date: 10/10/2019

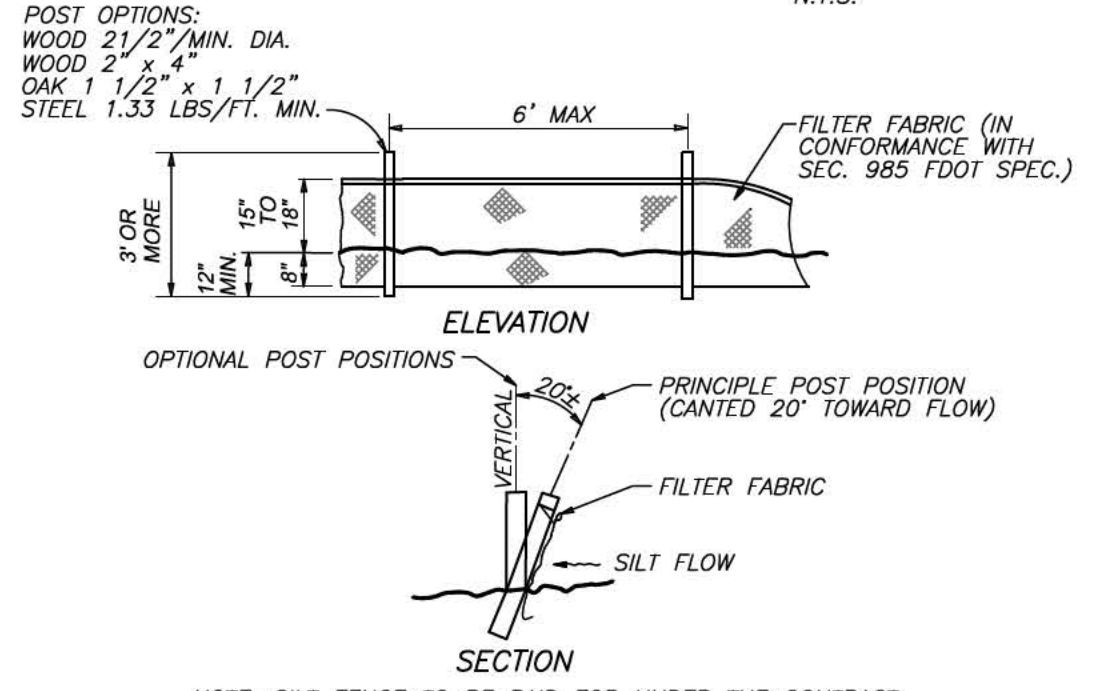


GRAVEL CONSTRUCTION ENTRANCE
N.T.S.

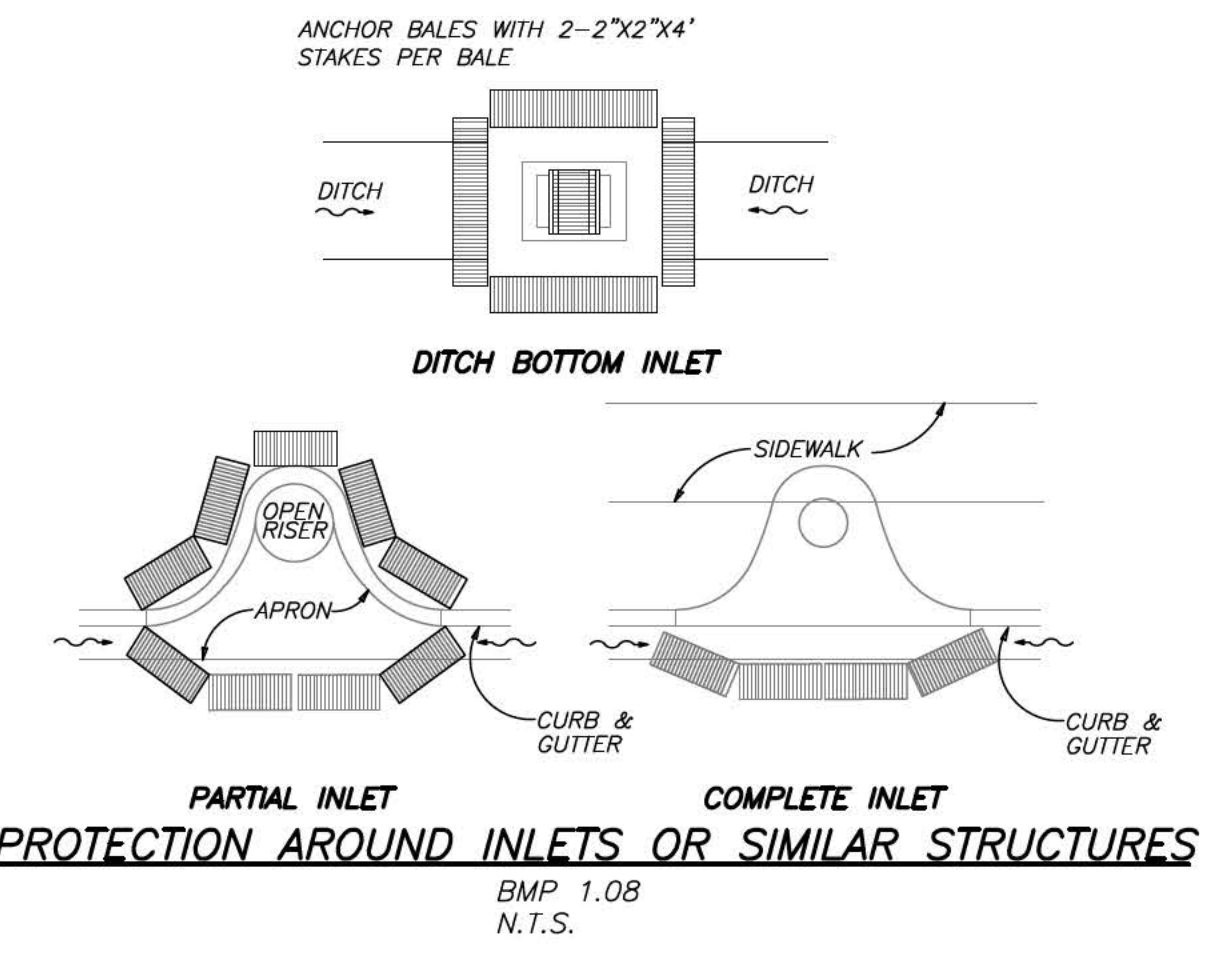


CONSTRUCTION OF A STRAW BALE BARRIER
N.T.S.

NOTE: ALL ELEVATIONS REFER TO NGVD 29, UNLESS OTHERWISE NOTED.
 FOR CONVERSION:
 NGVD - 1.22 = NAVD
 NAVD + 1.22 = NGVD



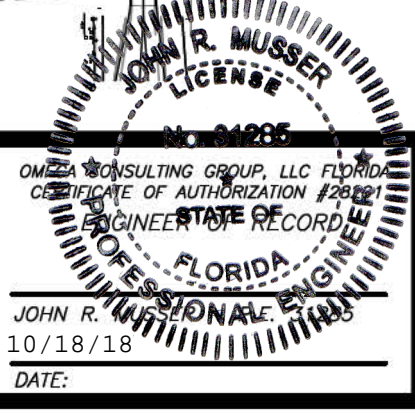
TYPE III SILT FENCE
N.T.S.



PROTECTION AROUND INLETS OR SIMILAR STRUCTURES
BMP 1.0B
N.T.S.

AMENDMENT TO:
SDP-AR-5282

This item has been electronically signed and sealed by John R. Musser, P.E. on 10/18/18, using a SHA-1 authentication code. Printed copies of this document are not considered signed and sealed and the SHA-1 authentication code must be verified on any electronic copies.



NOTE: The information shown on these plans is subject to change. It is the recipient's responsibility to verify all information prior to commencement of planning, engineering and/or construction.

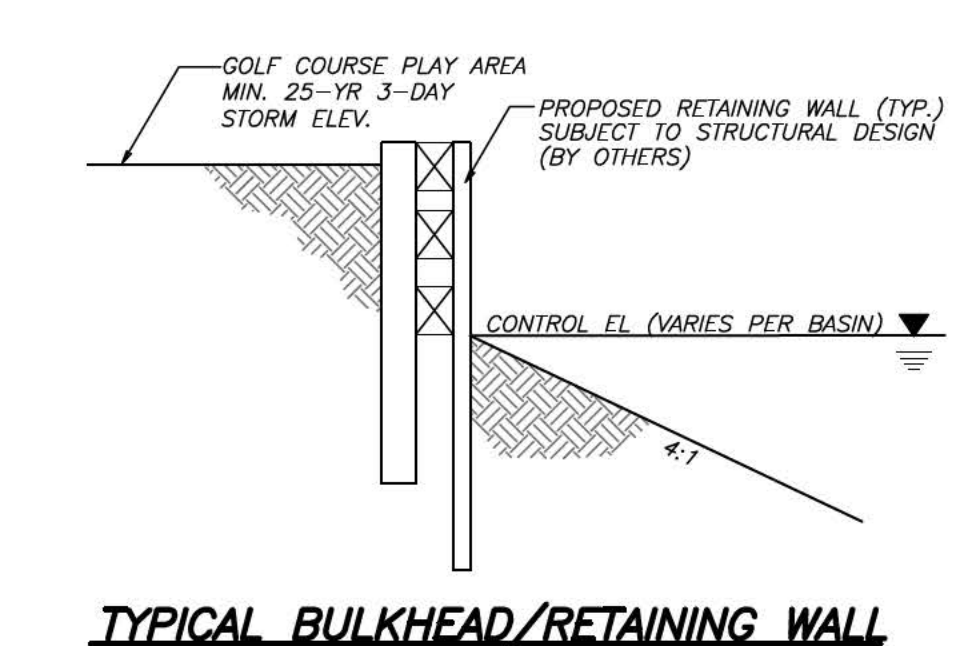
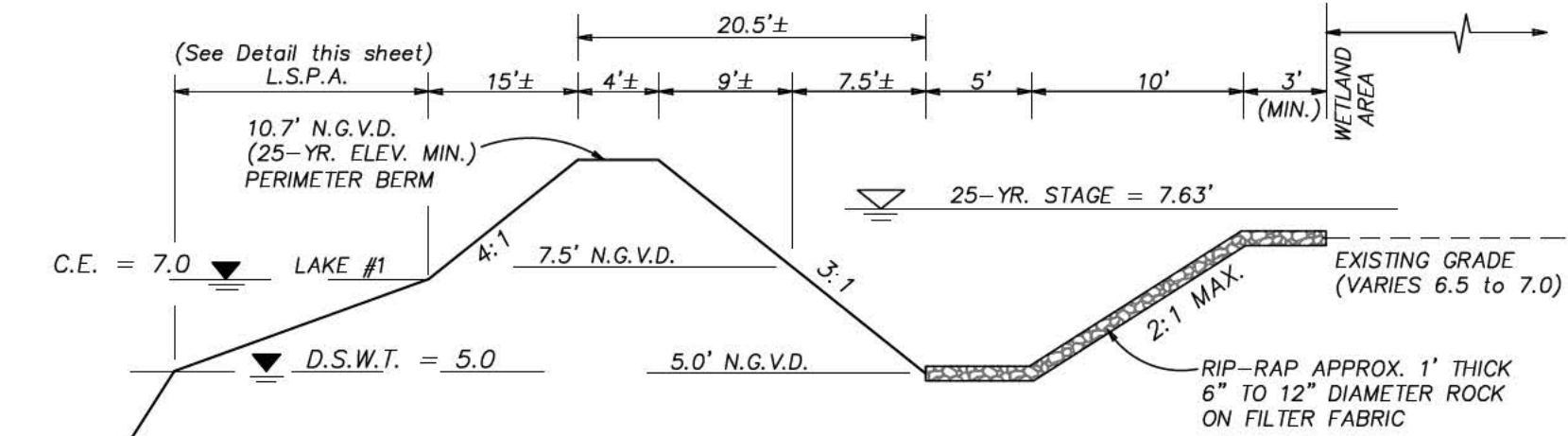
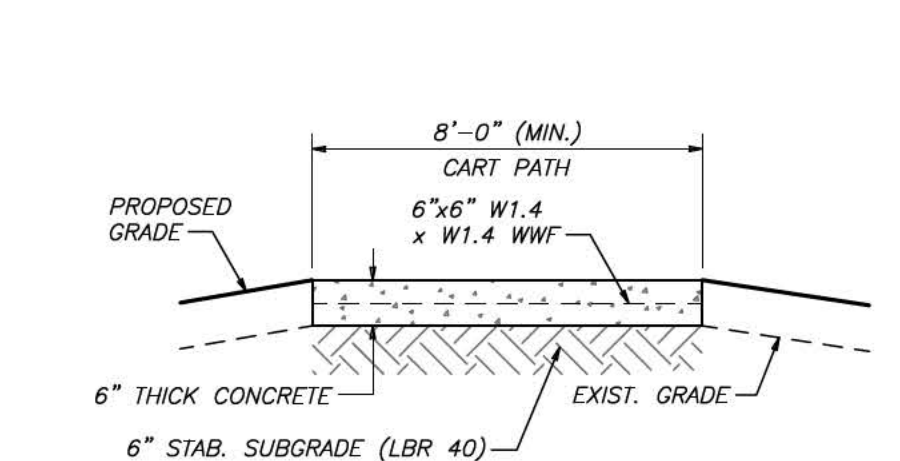
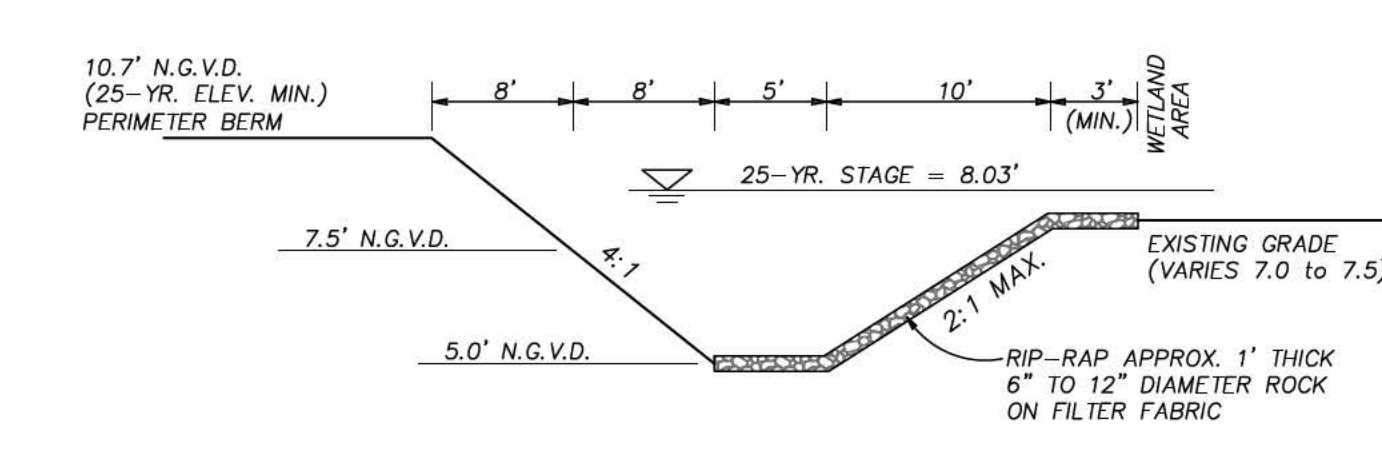
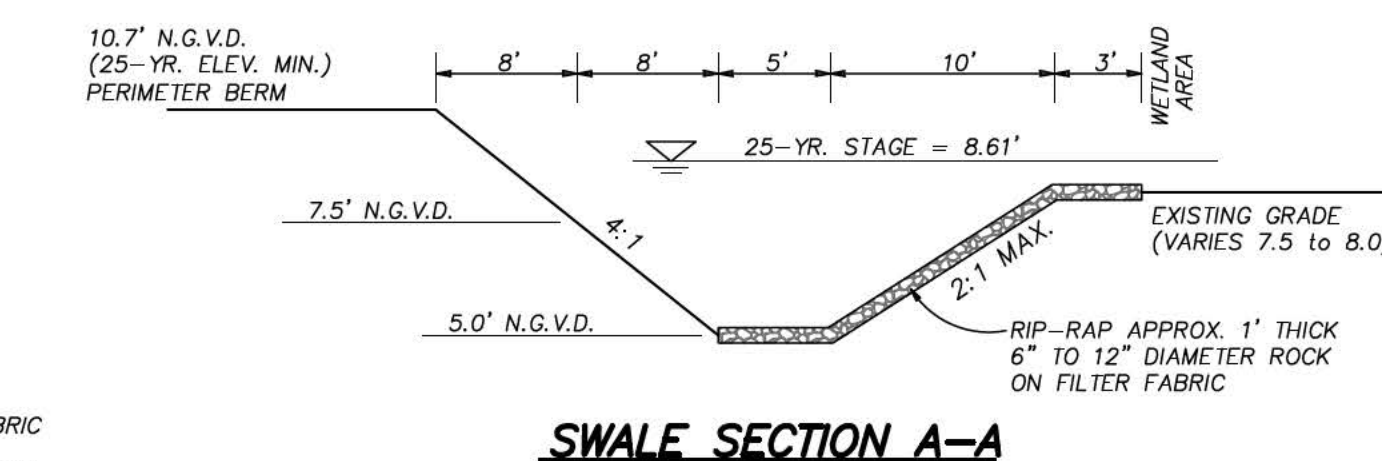
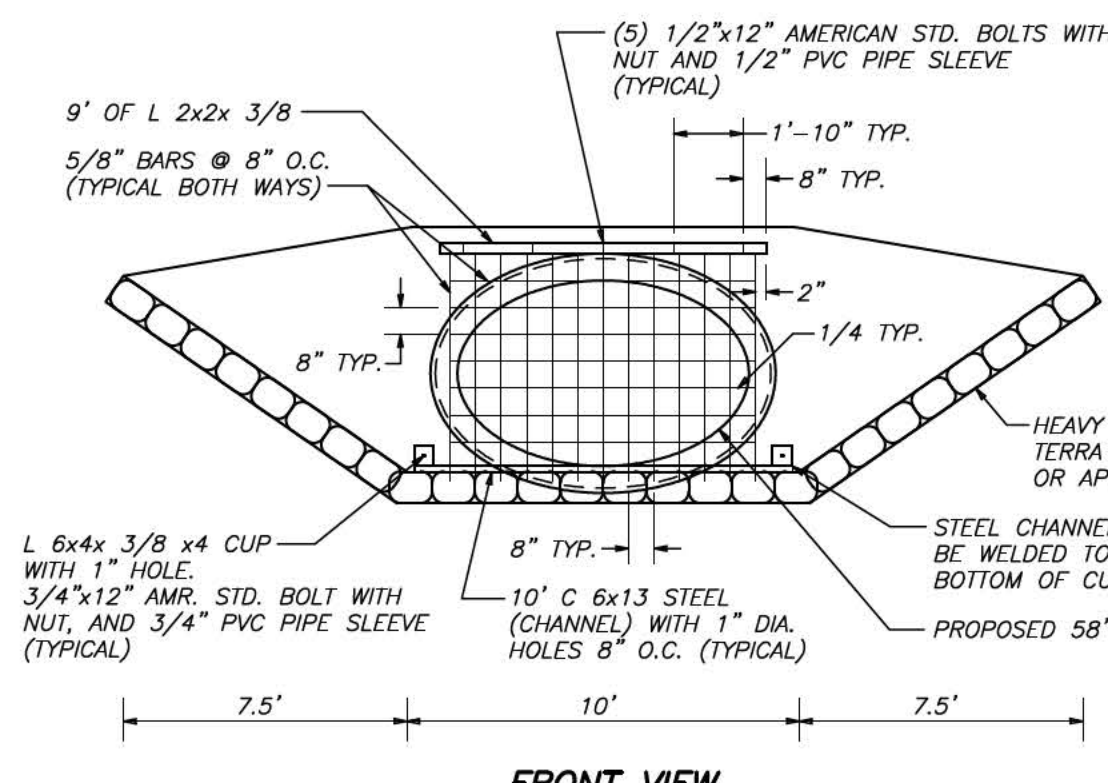
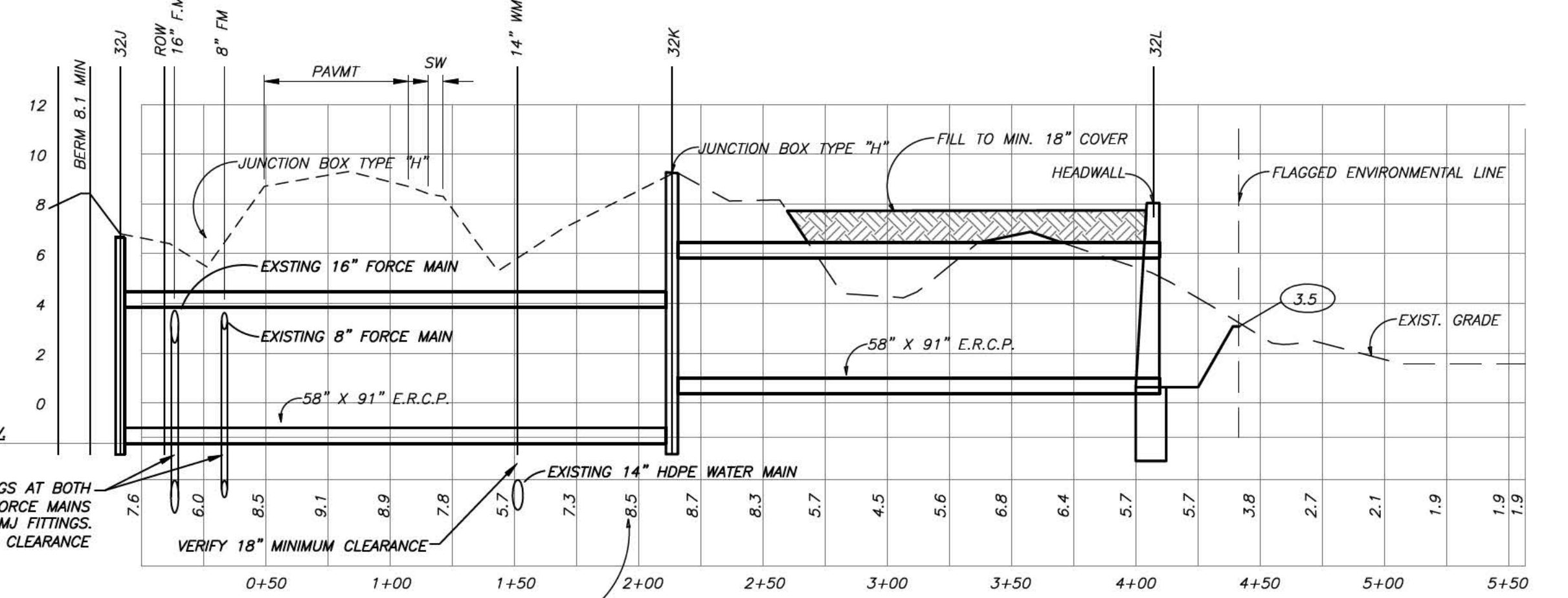
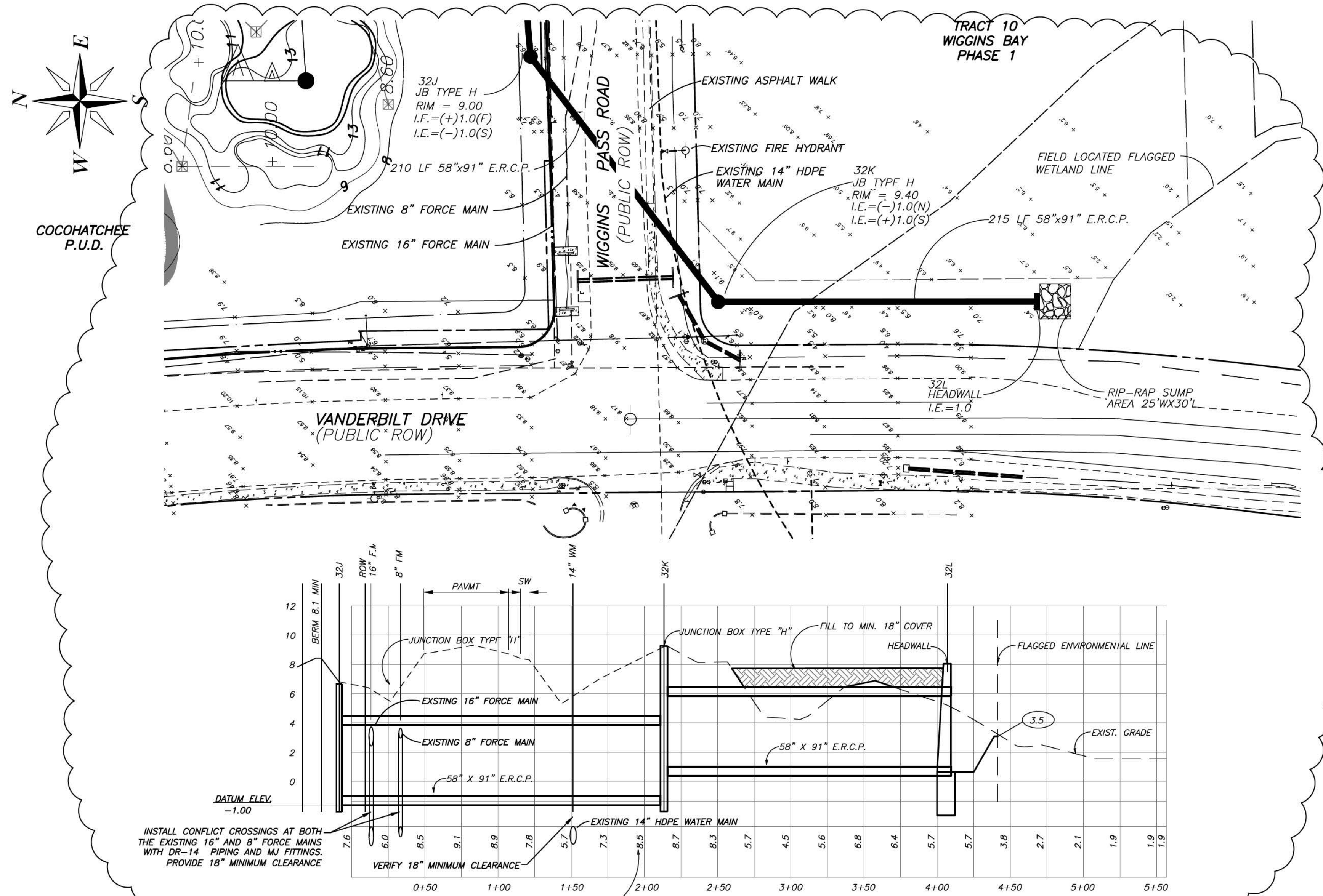
Omega Consulting Group
 5620 Sonnen Court
 Fort Myers, FL 33919
 C. A. #28291
 Project Management / Civil Engineering Solutions

PREPARED FOR:
Lodge/Abbott Investments Associates LLC
 3400 Lafayette Street
 Detroit, MI 48207
 313-567-7000

PROJECT & SHEET TITLE:
Kinsale Golf Course - S.D.P. Plans
 Sections 8,16,17&20, Township 48S, Range 25E
 Collier County, Florida
Erosion Control Plan & Details

SCALE: 1" = 200'
 DRAWN: JW 11-17-17
 CHECKED: JW 11-17-17
 APPROVED: JRM 11-17-17
 ACAD NO: 1408A-SP
 PROJECT NO: 1408-A
 Sheet No. **8** of **11**

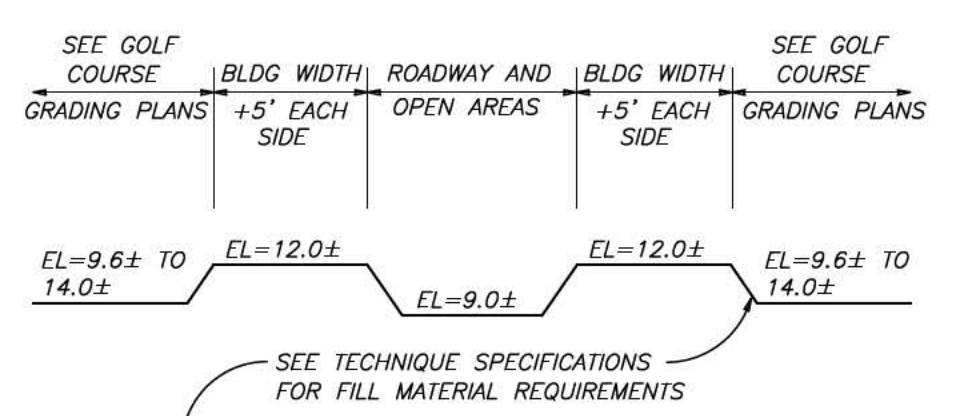
NO.	DATE	BY:	REVISION:
1	10/18	JW	REVISED PER COLLIER COUNTY COMMENTS



Littoral Planting Zones

- Provide a plant list with minimum of 3 different listed species of littoral plantings. No single species shall be greater than 50% coverage.
- Eighty (80) percent vegetative coverage of the littoral shelf planting area (LSPA) is required within a two year period following initial planting, and shall be maintained in perpetuity. The LSPA must be kept free of refuse and debris.
- Plants shall be selected based on the expected flooding durations and maximum water depths for which the selected plants can survive. The LSPA shall be initially planted with at least three different species of native, nursery grown or otherwise legally obtained vegetation. No species shall constitute more than 50 percent of coverage, and at least one species shall be herbaceous. Spacing shall be no more than: 20 feet for trees; five feet for shrubs; and 36 inches on center for herbaceous plants. At the time of planting, minimum size shall be: three gallon (minimum four feet high) for trees; one gallon for shrubs and 12 inches for herbaceous plants. Clustering of plants shall be allowed to provide for scattered open areas as long as the open areas do not constitute more than 20 percent of the required shelf area and the elevations of the open areas are at least a foot deeper than the surrounding planted area.
- Littoral shelf slopes shall be 8 to 1 or flatter. The LSPA shall be located no closer than 20 feet from any discharge structure or pipe intake so as to not impede flow. If the LSPA is located around a discharge structure, the 20-foot setback shall extend water ward of the discharge structure to a point in the center of the lake.
- All prohibited exotic vegetation, as defined by County Code, and Class I and Class II Prohibited Aquatic Plants specified in Chapter 62C-52.011, Florida Administrative Code, shall be removed as they occur, manually or with U.S. Environmental Protection Agency approved herbicides. Cattails shall be removed manually or with U.S. Environmental Protection Agency approved herbicides when they exceed ten percent coverage of the required LSPA area.

NOTE: ALL ELEVATIONS REFER TO NGVD 29. UNLESS OTHERWISE NOTED.
FOR CONVERSION:
NGVD - 1.22 = NAVD
NAVD + 1.22 = NGVD



STOCKPILE NOTES:

- REFER TO GOLF COURSE ARCHITECT SPECIFICATIONS FOR SODDING AND GRASS REQUIREMENTS ADJACENT TO GOLF COURSE.
- STOCKPILE AREA IS LIMITED TO THE PROPOSED DEVELOPMENT AREAS. NO STOCKPILING IN PROPOSED WETLANDS PRESERVE AREAS OR IN THE POTENTIAL FUTURE DEVELOPMENT AREAS ON THE WEST SIDE OF VANDERBILT DRIVE.
- MAXIMUM STOCKPILE SLOPES SHALL BE 4:1, UNLESS FENCED PER L.D.C.

LAKE TABLE

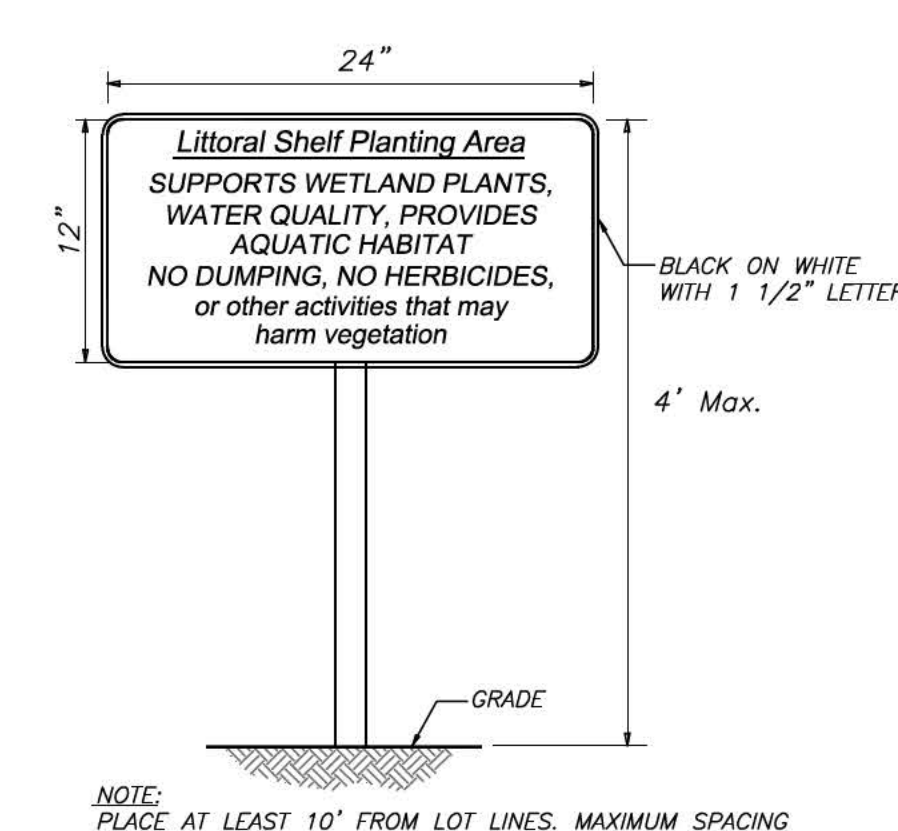
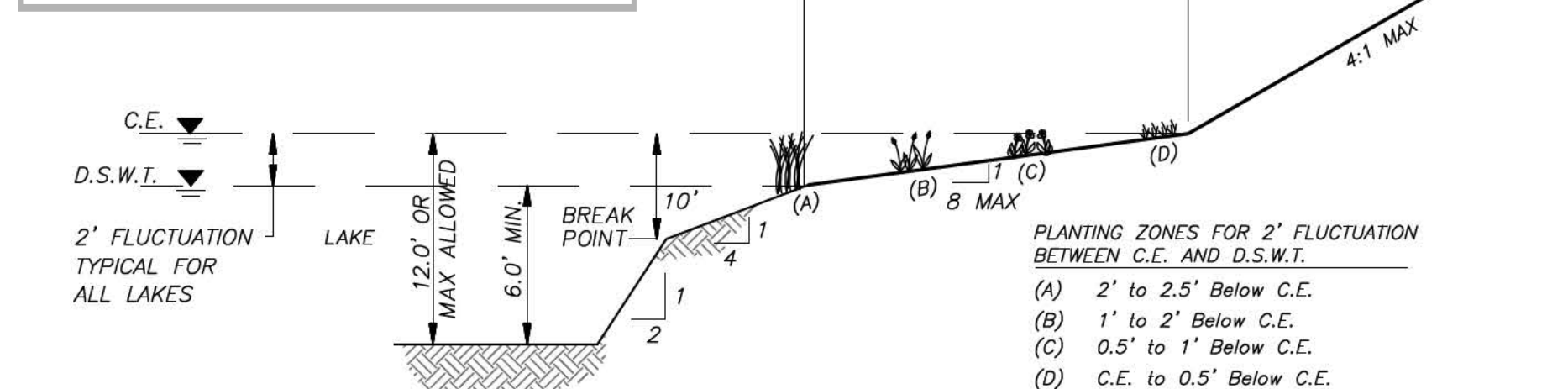
LAKE No.	AREA @ C.E. (ACRES)	C.E.	ELEVATIONS BREAK POINT	BOTTOM	PERIMETER (FT.)	MAX. BULKHEAD 40% (FT.)	DRY SEASON WATER TABLE	LSPA AREA*
1	3.7	7.0	-3.0	-13.0	1684	674	5.0	11,300
2	2.7	6.5	-3.5	-13.5	2111	844	4.5	8,200
4	1.8	6.5	-3.5	-13.5	1059	424	4.5	5,500
5	2.8	6.5	-3.5	-9.0	1690	676	4.5	8,600
12	2.6	7.0	-3.0	-13.0	1546	618	5.0	8,000

* LSPA AREAS ARE IN SQ. FT. EQUAL TO 7% OF THE LAKE AREA AT CONTROL. FINAL LOCATIONS MAY VARY DUE TO FIELD CONDITIONS. LSPA AREAS MAY BE COMBINED BETWEEN LAKES.

Littoral Planting List

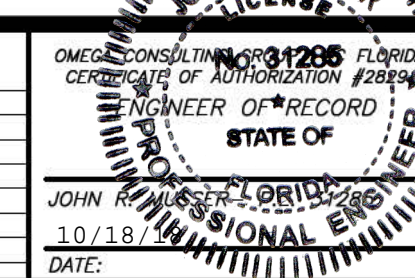
Zone	Name	Botanical Name	Inundation Tolerance	Estimated Months of Flooding
ZONE (A) - DEEP LSPA 2' to 2.5' Below C.E.	Cyperus	Taxodium Spp.	3.5 to 12 Months	12 Months
	Giant Bullrush	Scirpus Spp.	9 to 12 Months	
	Water Shield	Brasenia Schreberii	9.5 to 12 Months	
	Spatterdock	Nuphar Spp.	11 to 12 Months	
	Water Lilies	Nymphaea Spp.	11 to 12 Months	
ZONE (B) - MID LSPA 1' to 2' Below C.E.	Cyperus	Taxodium Spp.	3.5 to 12 Months	6 to 12 Months
	Pickeral Weed	Pantederia cordata	8.5 to 12 months	
	Arrow Head	Sagittaria spp.	6 to 12 months	
	Mosses	Potamogeton Hermitianum	6 to 12 months	
	Spikerushes	Eleocharis Spp.	6 to 12 months	
ZONE (C) - SHALLOW LSPA 0.5' to 1' Below C.E.	Canna Lily	Canna flaccida	2 to 6 months	3 to 6 months
	Red Maple	Acer Rubrum	0 to 8.5 Months	
	Pop Ash	Fraxinus caroliniana	1 to 8 months	
	Bullion Bush	Cephalanthus occidentalis	1 to 8 months	
	Cordgrass	Spartina Spp.	2.5 to 8.5 months	
ZONE (D) - TRANSITIONAL LSPA C.E. to 0.5' Below C.E.	Holly	Ilex spp.	1 to 3.5 months	1 to 3 Months
	Cabbage Palm	Sabal Palmetto	1 to 6 months	
	Wax Myrtle	Myrica cerifera	1 month or less	

Collier County
Reviewed and Approved For:
Permit Issuance
PL20170004271 Date: 10/10/2019



NO. DATE BY: REVISION:

1	10/18	JW	REVISED PER COLLIER COUNTY COMMENTS
---	-------	----	-------------------------------------



NOTE:
The information shown on these plans is subject to change. It is the recipient's responsibility to verify all information prior to commencement of planning, engineering and/or construction.

Omega Consulting Group
5620 Sonnen Court
Fort Myers, FL 33919
C. A. #28291
Project Management / Civil Engineering Solutions

PREPARED FOR:
Lodge/Abbott Investments Associates LLC
3400 Lafayette Street
Detroit, MI 48207
313-567-7000

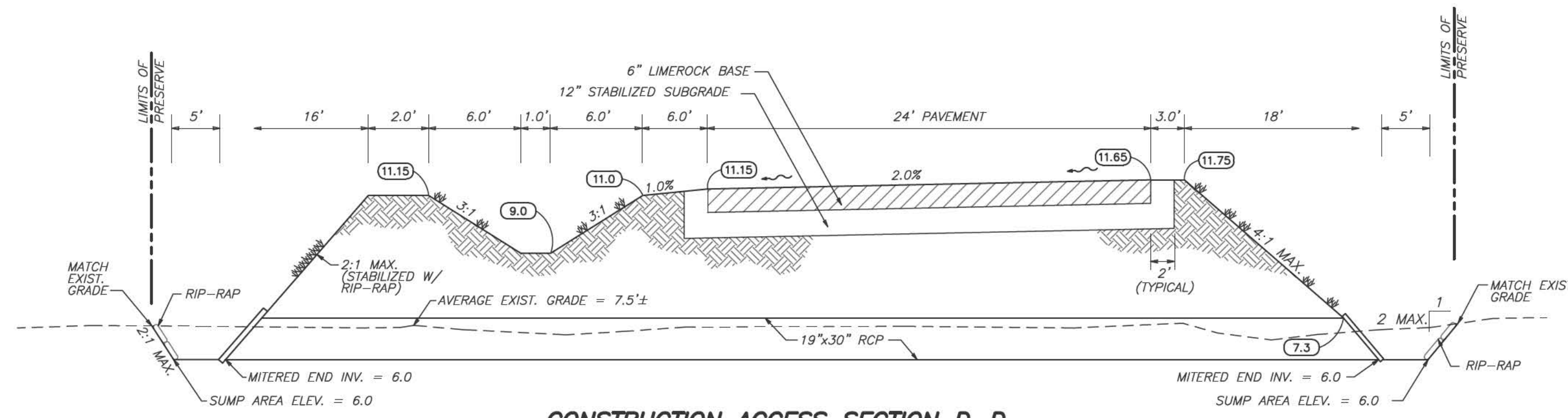
PROJECT & SHEET TITLE:
Kinsale Golf Course - S.D.P. Plans
Sections 8,16,17&20, Township 48S, Range 25E
Collier County, Florida

Construction Details

SCALE: Not To Scale

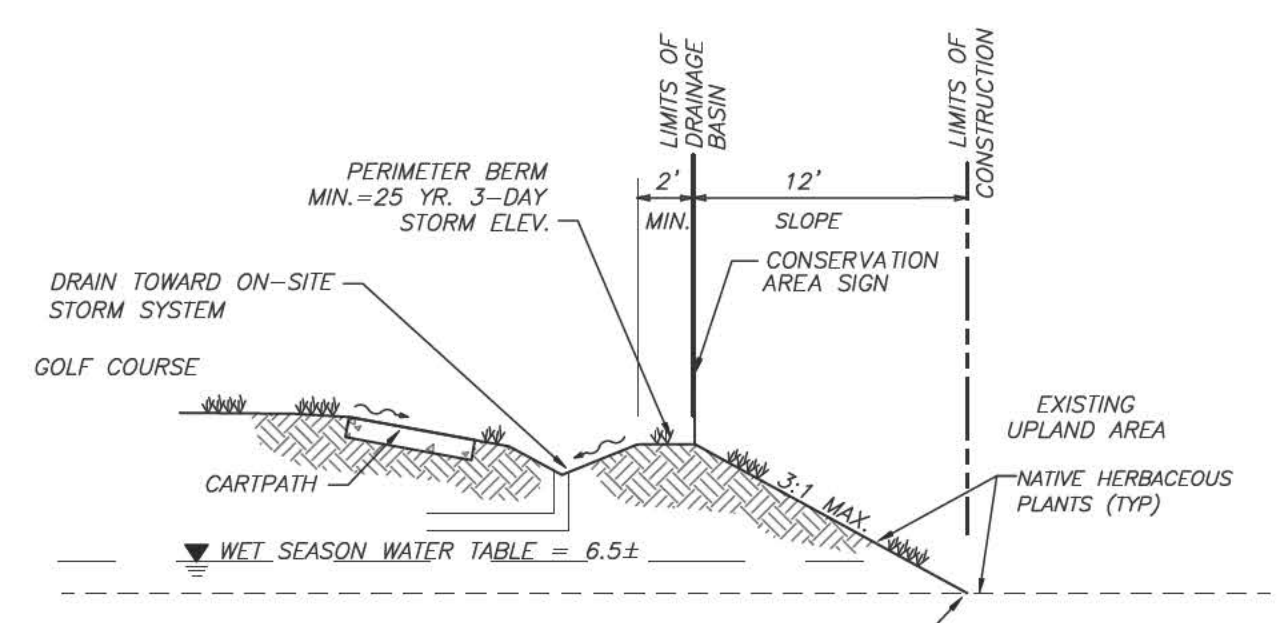
DRAWN:	JW	11-17-17
CHECKED:	JW	11-17-17
APPROVED:	JRM	11-17-17

ACAD NO: 1408A-DT
PROJECT NO: 1408-A
Sheet No. **10 of 11**

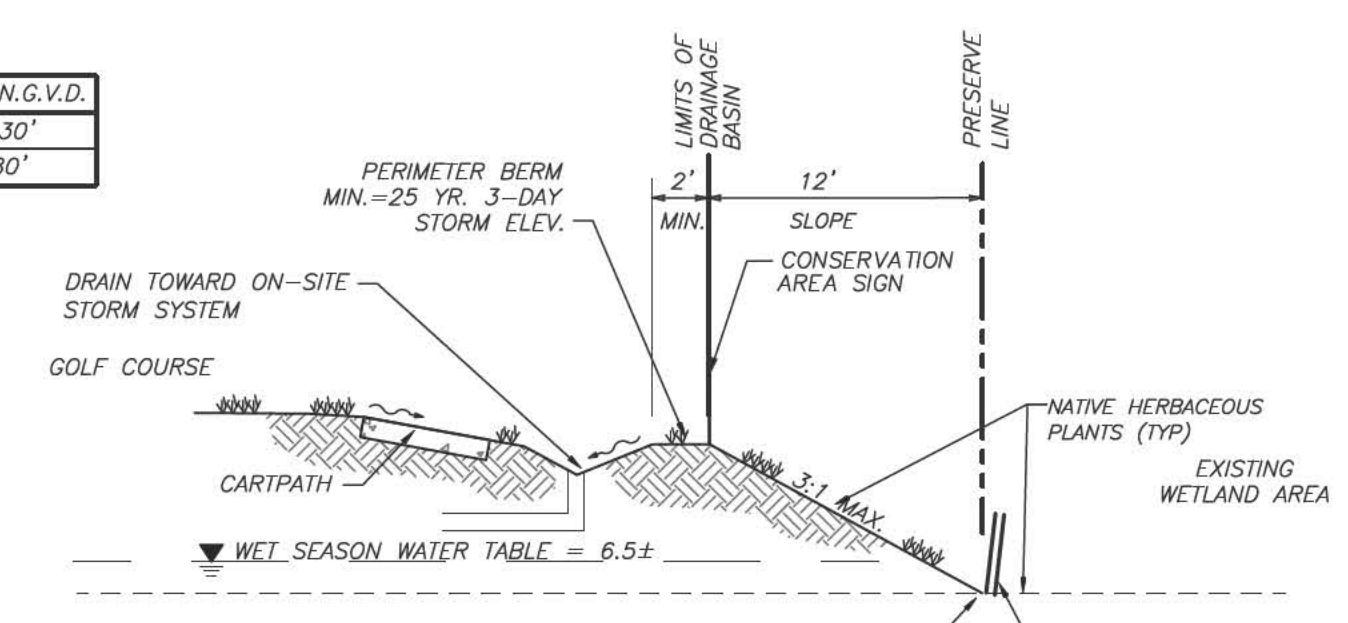


CONSTRUCTION ACCESS SECTION D-D
N.T.S.

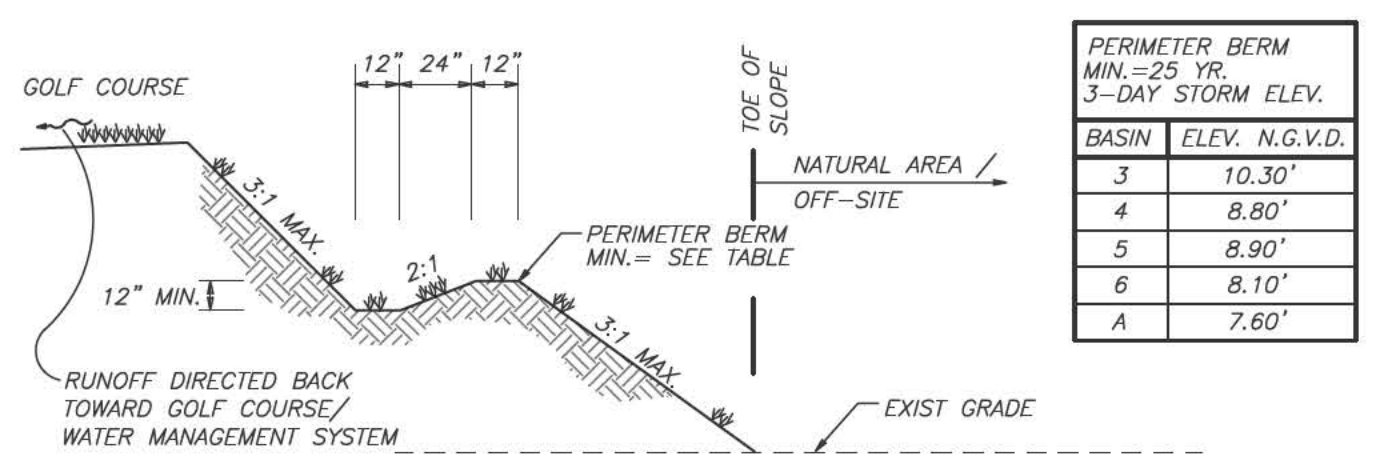
NOTES: 1. ACCESS ROAD MUST BE MAINTAINED DUST FREE.
2. ROAD TO BE PAVED AS MAINTENANCE ROAD UNDER FUTURE PHASE



TYPICAL CROSS SECTION GOLF ADJACENT TO ON-SITE NATURAL AREAS SECTION "H-H"
N.T.S.

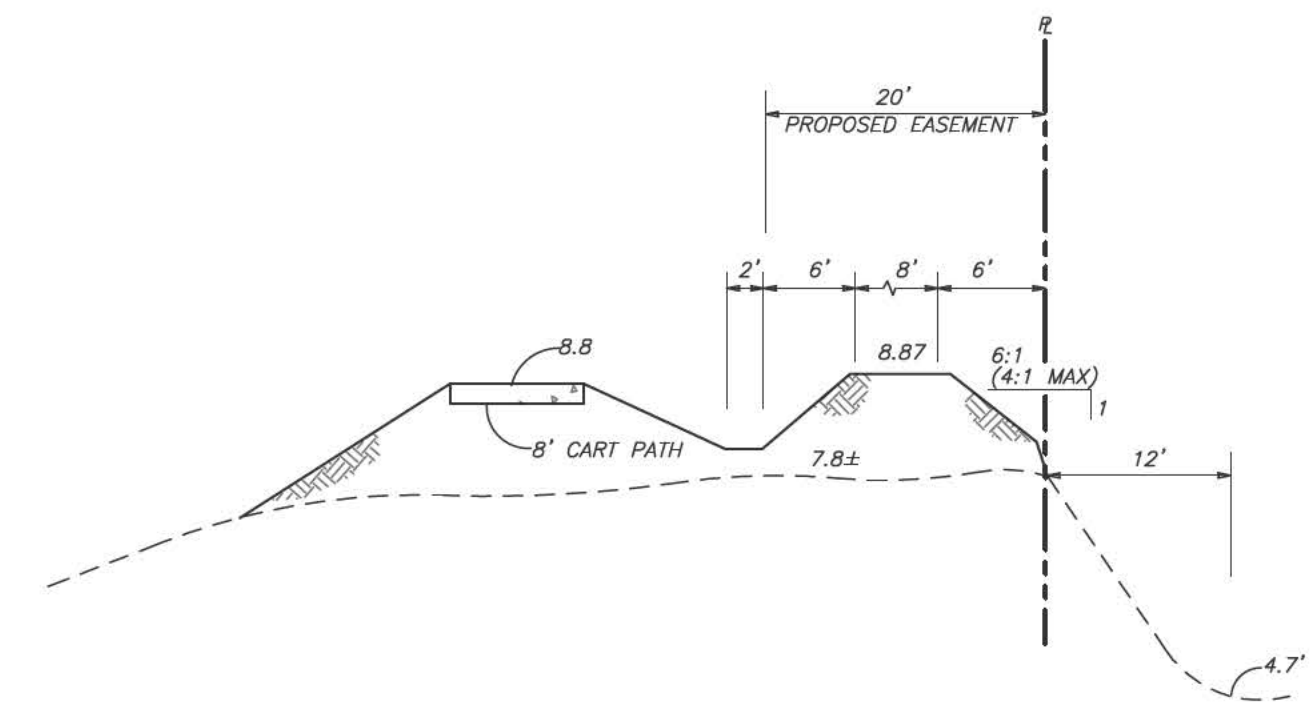


TYPICAL GOLF COURSE PERIMETER BERM CROSS SECTION ADJACENT TO WETLAND PRESERVE SECTION "K2-K2"
N.T.S.



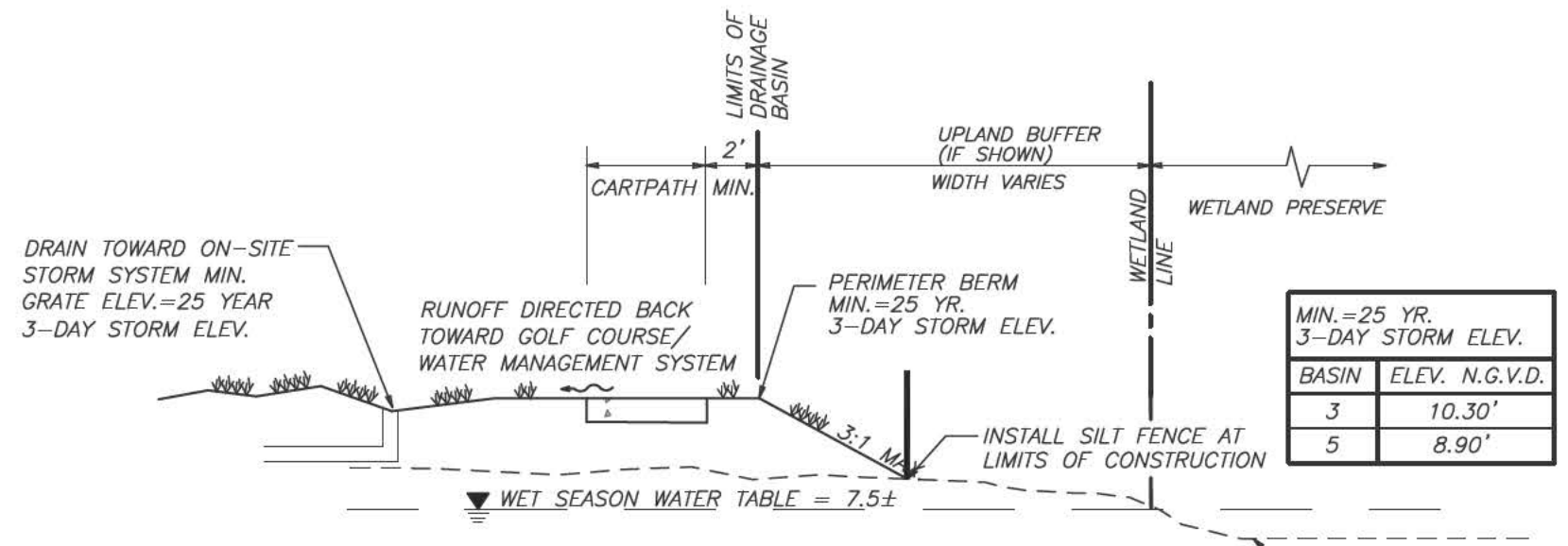
GOLF COURSE/PERIMETER BERM SECTION "G-G"
N.T.S.

NOTE: SLOPES GREATER THAN 2' IN HEIGHT MUST BE A MAX. 4:1, ONLY PERMITTED IF RIP-RAPPED.



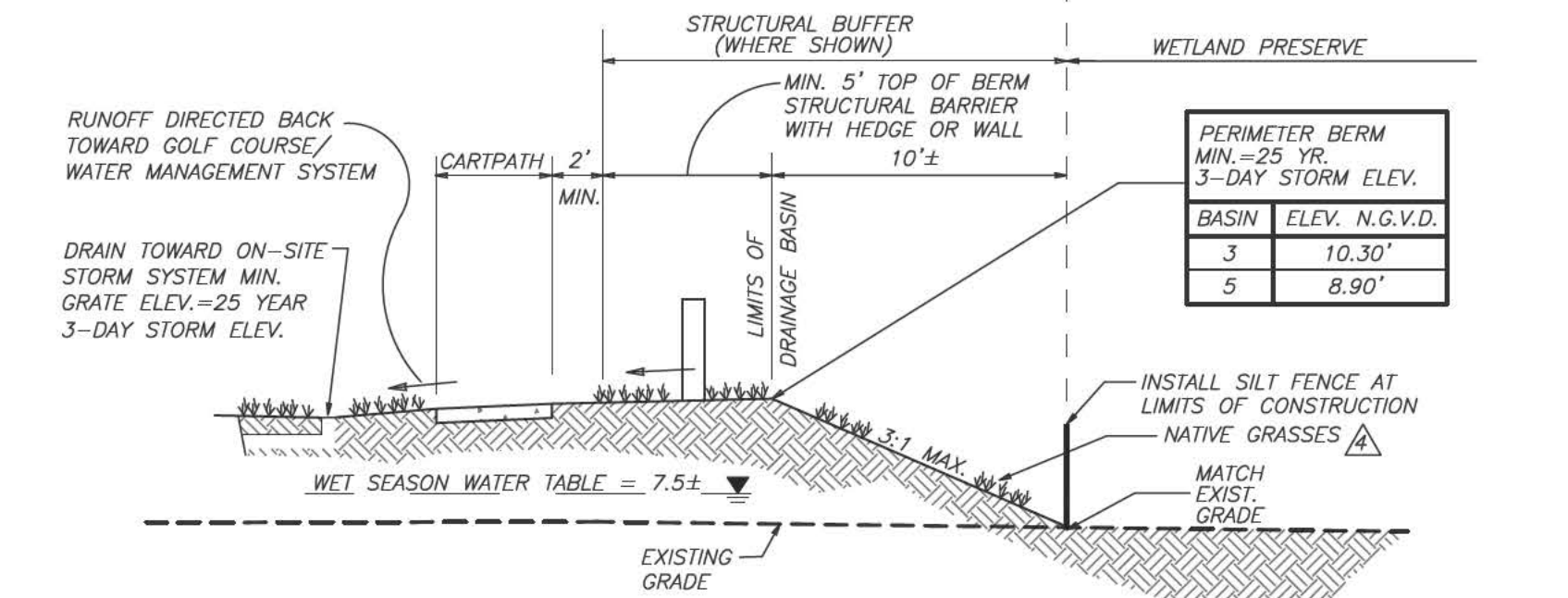
GOLF COURSE/PERIMETER BERM SECTION "J-J"
N.T.S.

REVISED: 11/20/07



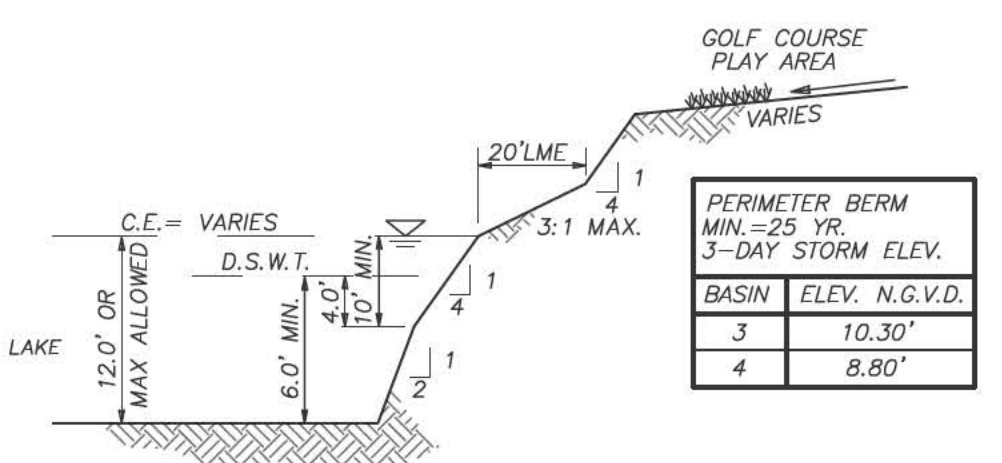
TYPICAL GOLF COURSE PERIMETER BERM WITH UPLAND BUFFER ADJACENT TO WETLAND PRESERVE SECTION "K-K"
N.T.S.

NOTE: SLOPES GREATER THAN 2' IN HEIGHT MUST BE A MAX. 4:1 UNLESS LANDSCAPED.

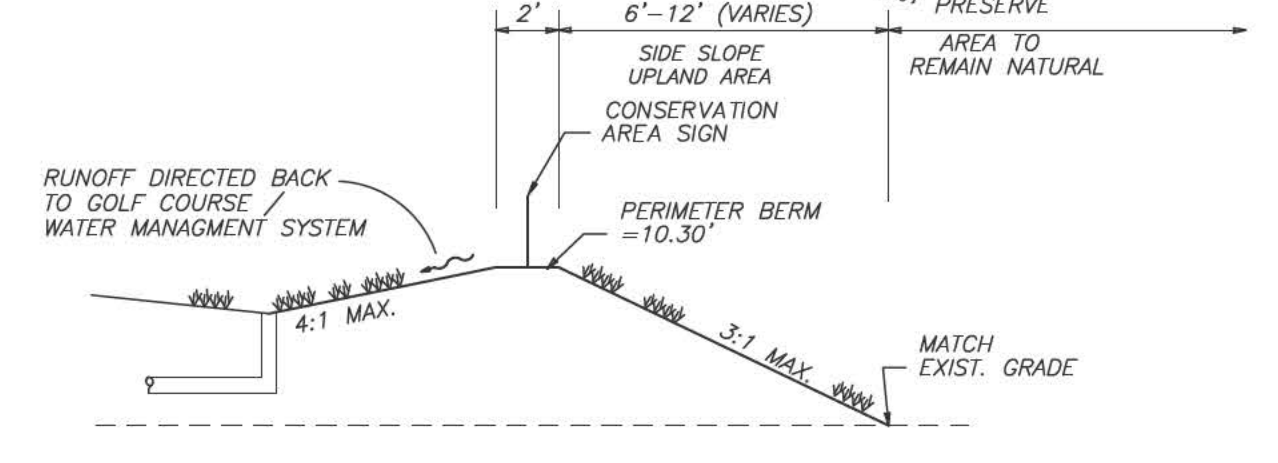


TYPICAL GOLF COURSE PERIMETER BERM W/ STRUCTURAL BUFFER ADJACENT TO WETLAND PRESERVE SECTION "K1-K1"
N.T.S.

NOTE: SLOPES GREATER THAN 2' IN HEIGHT MUST BE A MAX. 4:1 UNLESS LANDSCAPED.



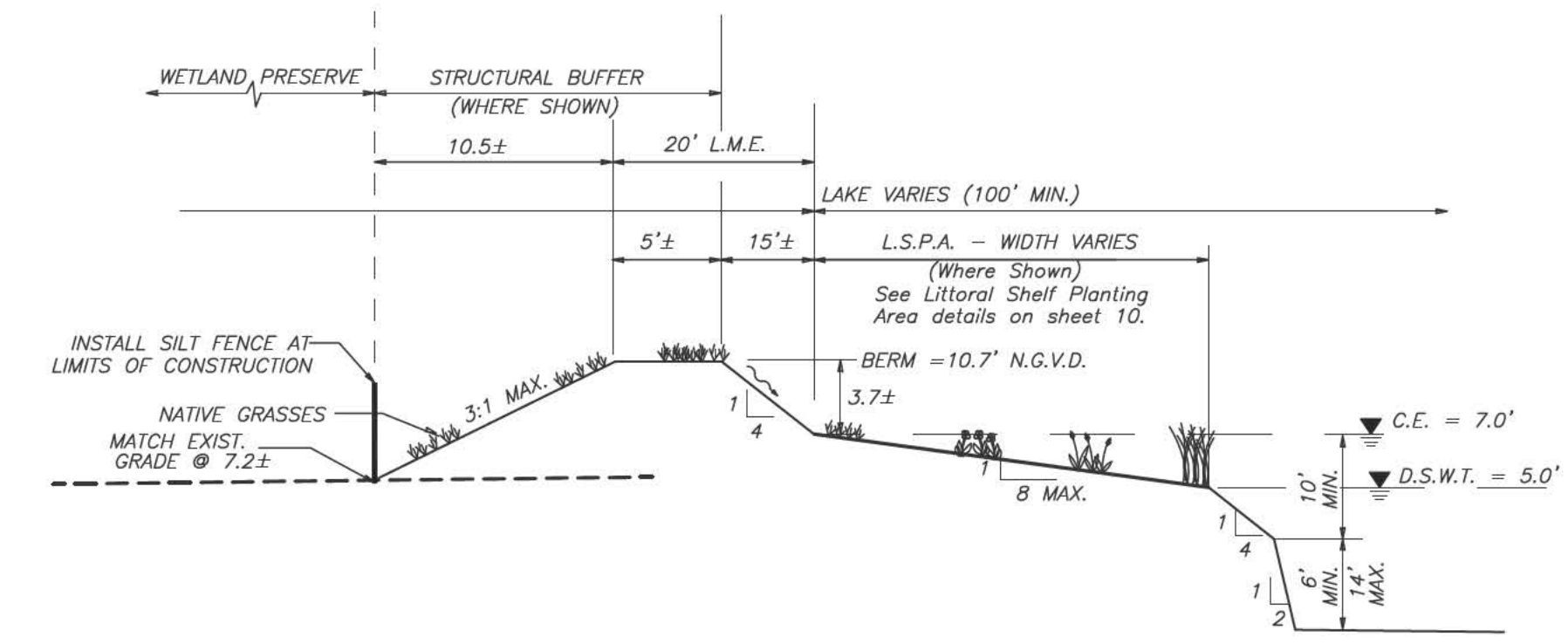
TYPICAL LAKE ADJACENT TO GOLF COURSE SECTION "L-L"
N.T.S.



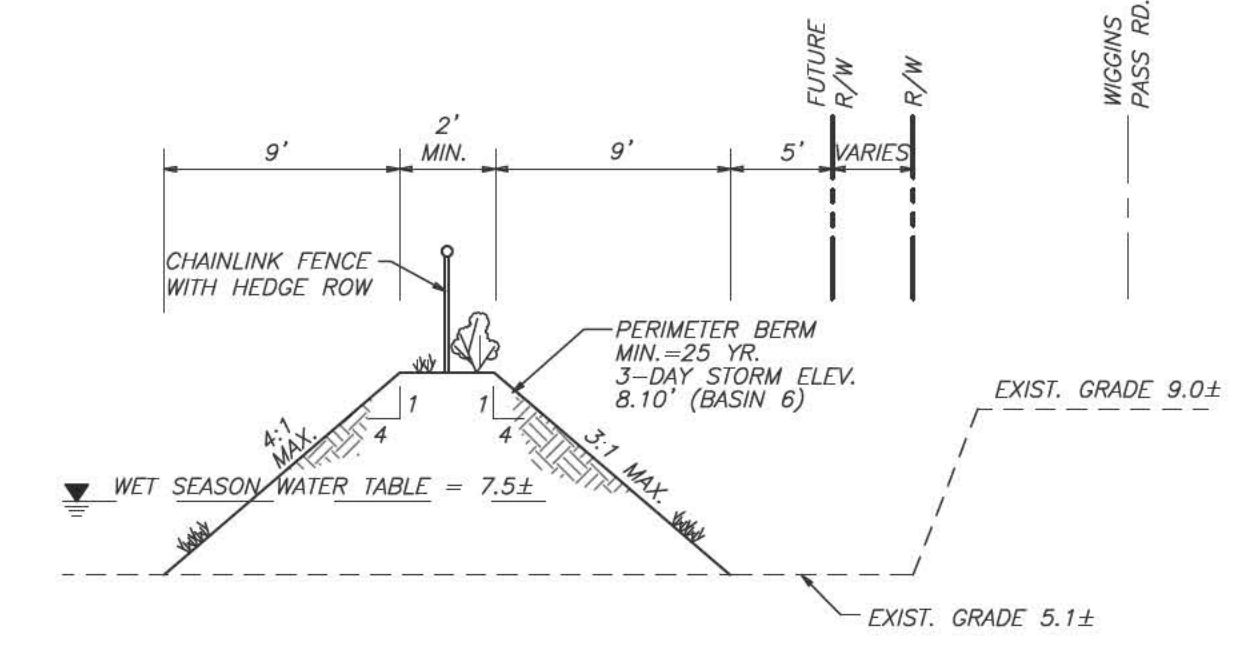
TYPICAL CROSS SECTION NORTH GOLF ADJACENT TO ON-SITE UPLAND PRESERVE SECTION "M-M"
N.T.S.

NOTE: SLOPES GREATER THAN 2' IN HEIGHT MUST BE A MAX. 4:1 UNLESS LANDSCAPED.

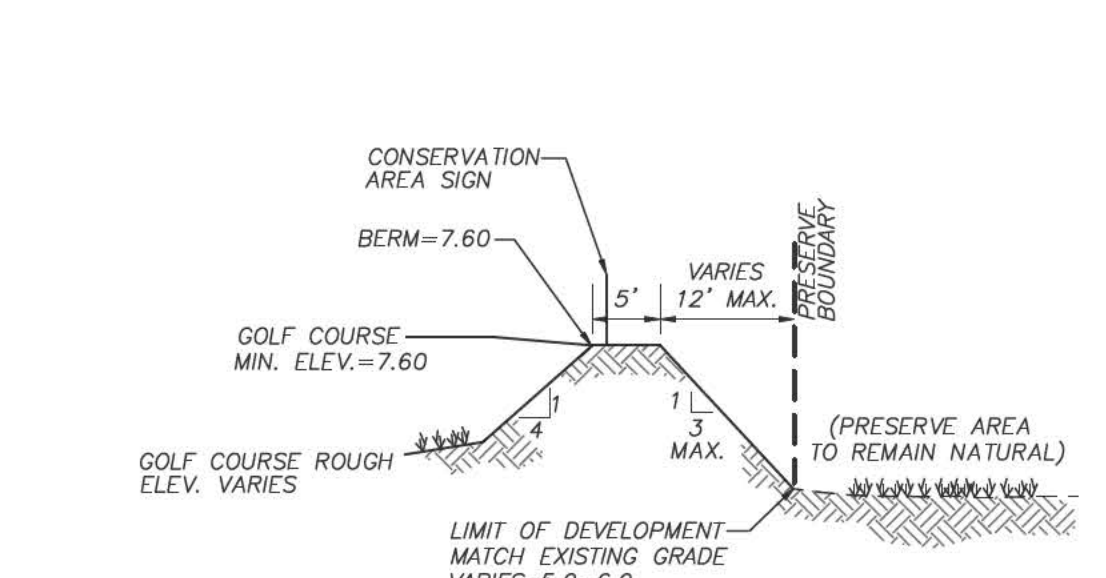
Collier County
Reviewed and Approved For:
Permit Issuance
PL20170004271 Date: 10/10/2019



LAKE/WETLAND INTERFACE CROSS SECTION SECTION "O-O"
N.T.S.

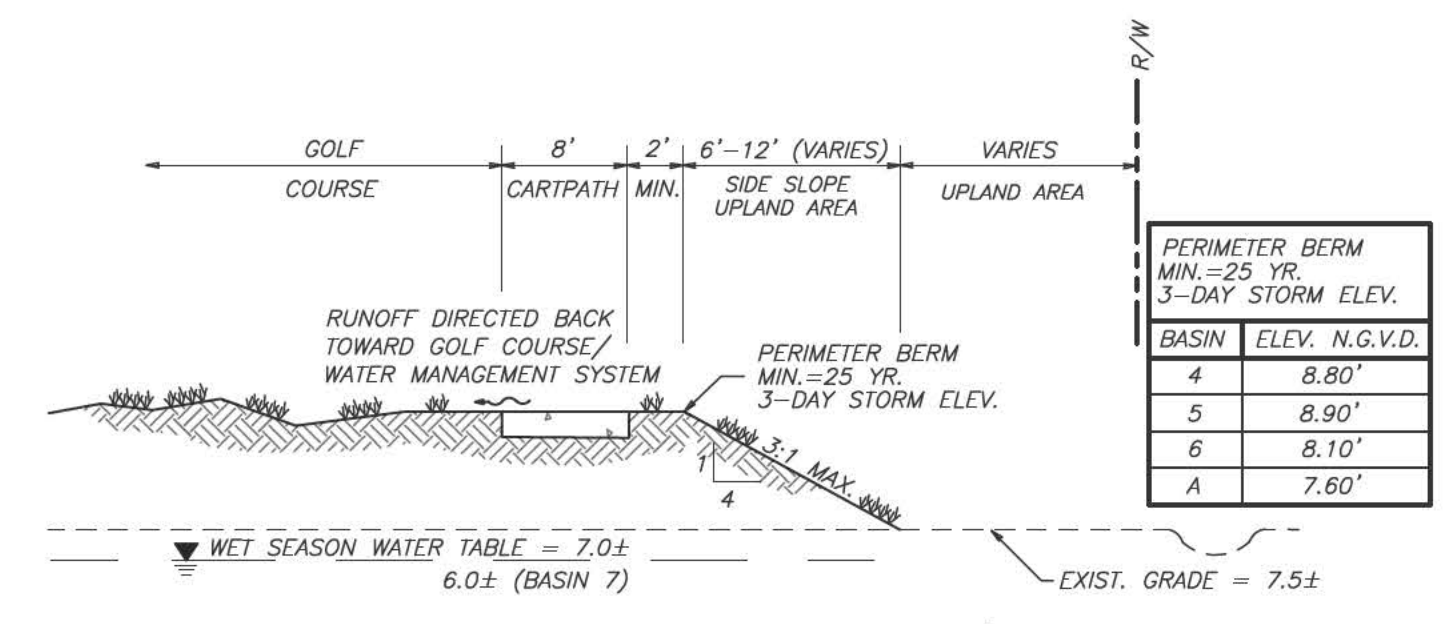


TYPICAL PERIMETER BERM CROSS SECTION AT NATURAL AREA/RIGHT OF WAY, SHOWING FUTURE RIGHT OF WAY SECTION "O1-O1"
N.T.S.



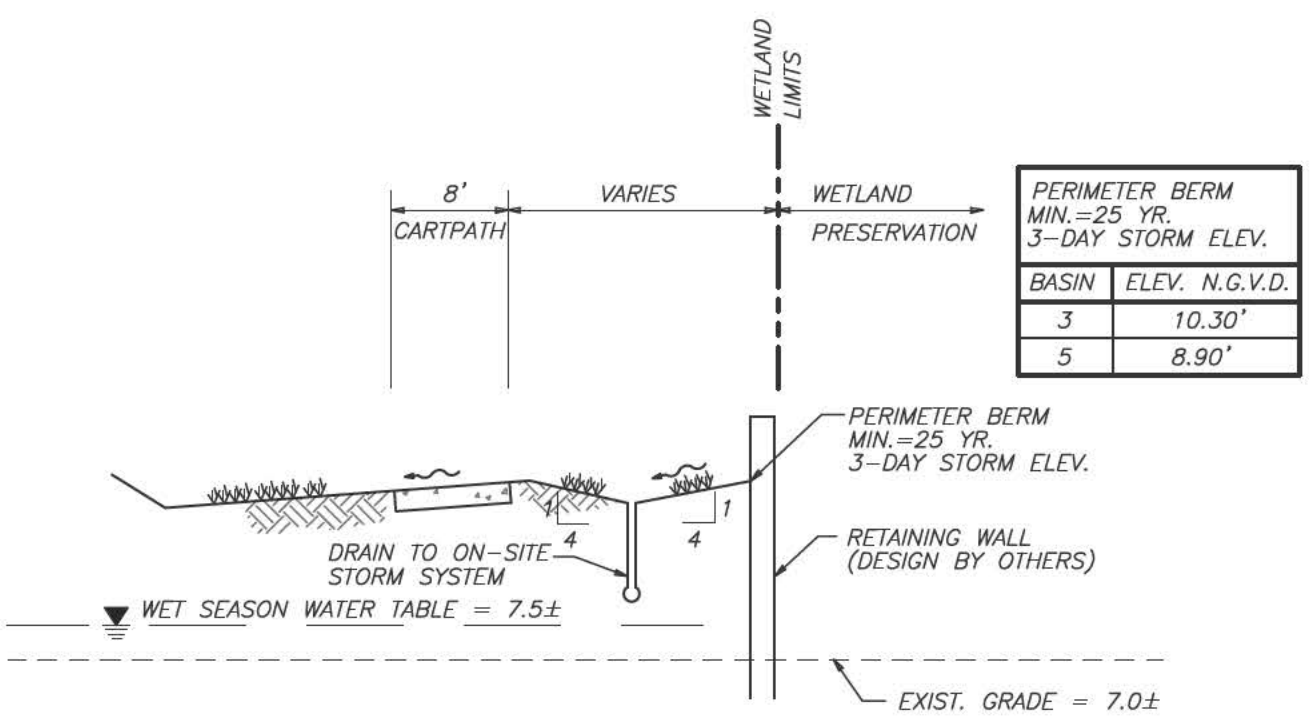
TYPICAL GOLF AREA ADJACENT TO PRESERVE SECTION "E-E"
N.T.S.

NOTE: SLOPES GREATER THAN 2' IN HEIGHT MUST BE A MAX. 4:1 UNLESS LANDSCAPED.

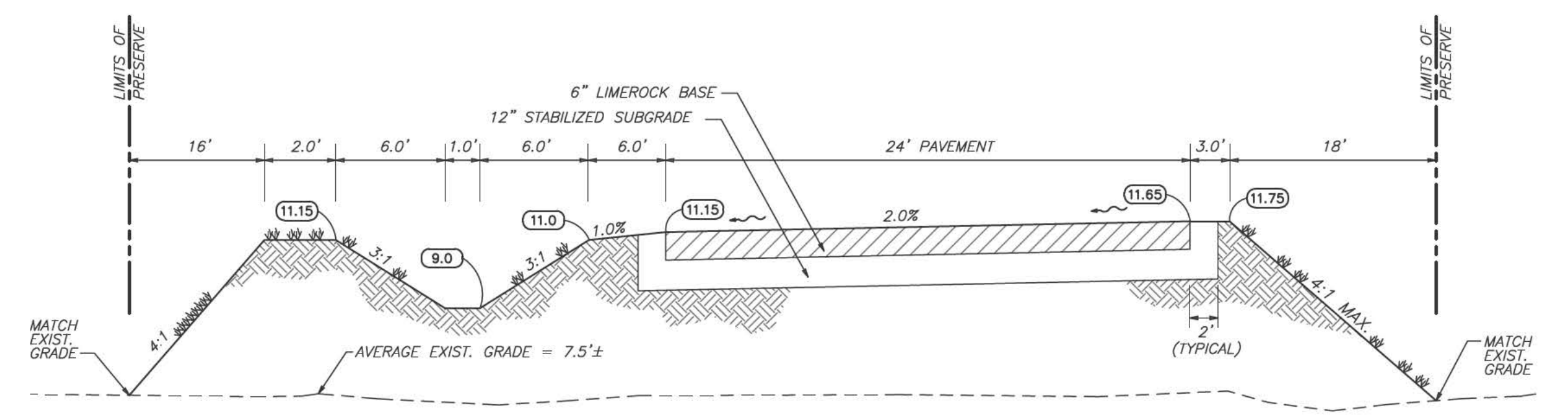


TYPICAL GOLF COURSE/PERIMETER BERM CROSS SECTION ADJACENT TO RIGHT OF WAY SECTION "P-P"
N.T.S.

NOTE: SEE TYPICAL GOLF COURSE/PERIMETER BERM SECTION ON THIS SHEET.



TYPICAL GOLF COURSE RETAINING WALL CROSS SECTION ADJACENT TO WETLANDS SECTION "R-R"
N.T.S.

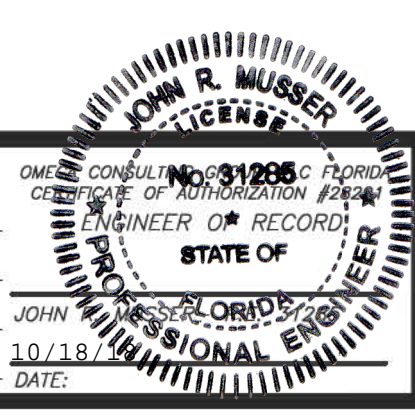


CONSTRUCTION ACCESS SECTION S-S
N.T.S.

NOTE: ACCESS ROAD MUST BE MAINTAINED DUST FREE.

NOTE: ALL ELEVATIONS REFER TO NGVD 29, UNLESS OTHERWISE NOTED. FOR CONVERSION: NGVD - 1.22 = NAVD, NAVD + 1.22 = NGVD

This item has been electronically signed and sealed by John R. Musser, P.E. on 10/18/18, using a SHA-1 authentication code. Printed copies of this document are not considered signed and sealed and the SHA-1 authentication code must be verified on any electronic copies.



NOTE: The information shown on these plans is subject to change. It is the recipient's responsibility to verify all information prior to commencement of planning, engineering and/or construction.

Omega Consulting Group
5620 Sonnen Court
Fort Myers, FL 33919
C. A. #28291
Project Management / Civil Engineering Solutions

PREPARED FOR:
Lodge/Abbott Investments Associates LLC
3400 Lafayette Street
Detroit, MI 48207
313-567-7000

PROJECT & SHEET TITLE:
Kinsale Golf Course - S.D.P. Plans
Sections 8,16,17&20, Township 48S, Range 25E
Collier County, Florida

SCALE: Not To Scale
ACAD NO: 1408A-DT
PROJECT NO: 1408-A
Sheet No. **11 of 11**

NO.	DATE	BY	REVISION