



Interoffice Memorandum

October 31, 2022

To: Katie Smith, Manager
Comptroller Clerk's Office

Through: Cheryl Gillespie, Agenda Development Supervisor
Agenda Development

From: David D. Jones, P.E., CEP, Manager
Environmental Protection Division
(407) 836-1406

**Staff Person: Elizabeth R. Johnson, CEP, Assistant Manager
Environmental Protection Division
(407) 836-1511**

Subject: Request for Public Hearing on December 13, 2022, at 2:00 p.m., for a Shoreline Alteration/Dredge and Fill Permit Application (SADF-22-03-008) to authorize maintenance dredging of an existing canal within the Hidden Oaks Condominiums on the properties located at Riverview Way, Cedar Creek Court, and Cedar Springs Place, Winter Park, FL 32792 (Parcel ID Nos. 11-22-30-3582-00-001, 11-22-30-3583-00-001, and 11-22-30-3594-00-001, District 5.

=====

Applicant: Hidden Oaks Condominium Association, Inc.

Type of Hearing: Shoreline Alteration/Dredge and Fill Permit Application

Hearing required by
Florida Statute # or Code: Chapter 15, Article VI, Pumping and Dredging Control

Advertising requirements: Publish once in a newspaper of general circulation in Orange County at least (7) seven days prior to public hearing.

Advertising timeframes: At least (7) seven days prior to public hearing.

Abutters to be notified: The applicants and the property owners within 500 feet of the project area will be notified at least (7) seven days prior to public hearing by the Environmental Protection Division (EPD).

Estimated time required
For public hearing: 2 minutes

Lake Advisory Board
to be notified: N/A

Municipality or other
Public Agency to be
notified: St. Johns River Water Management District, Marc VonCanal,
Mvoncana@sjrwmd.com

Hearing Controversial: No

District #: 5

Materials being submitted as backup for public hearing request:

1. Location Map
2. Site Plan

Special Instructions to Clerk:

1. Once the Board of County Commissioners makes a decision on the Shoreline Alteration/Dredge and Fill Permit Application, please submit the decision letter to Liz Johnson with EPD. EPD will issue the decision to the applicant.

Advertising Language:

1. Applicant, Hidden Oaks Condominium Association, Inc., is requesting a Shoreline Alteration/Dredge and Fill Permit (SADF-22-03-008) to authorize maintenance dredging of an existing canal on the properties located at Riverview Way, Cedar Creek Court, and Cedar Springs Place, Winter Park, FL 32792, pursuant to Chapter 15, Article VI, Pumping and Dredging Control. Parcel ID Nos. 11-22-30-3582-00-001, 11-22-30-3583-00-001, and 11-22-30-3594-00-001, District 5 (property legal description on file at EPD).

JR/TMH/ERJ/DJ: jk

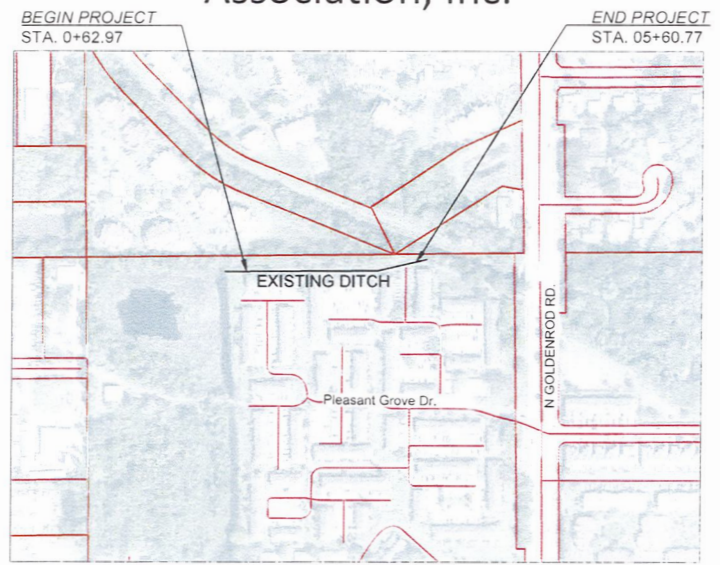
Attachments

Erosion and Sedimentation Control Plan for Ditch at Hidden Oaks Condominium Association, Inc.

received
10-17-2022



LOCATION MAP



SITE LOCATION

7302
Cedar Creek Ct,
Winter Park, FL 32792

28.587997, -81.288156
28°35'16.8"N, 81°17'17.4"W

JULY 31, 2020

LOCATION MAP
SECTION 11 TOWNSHIP 22S RANGE 30E

- PROJECT NOTES**
1. GOVERNING STANDARDS AND SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION, STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AS AMENDED BY CONSTRUCTION DOCUMENTS.
 2. PLANS WERE PREPARED ACCORDING TO INFORMATION COLLECTING ON THE FIELD WITH SURVEYING INSTRUMENTS. HISTORICAL DATA FROM PUBLICLY AVAILABLE SOURCES AND ORANGE COUNTY GIS DATA PARCELS, LOTS, ROADWAYS, ETC.
 3. THE SCALES OF THE PLANS MAY HAVE CHANGES DUE TO REPRODUCTION, ESPECIALLY IF THE PAPER SIZE WILL BE CHANGED. THESE PLAN SHEETS SHOULD BE PRINTED OR PLOTTED ON 11x17 PAPER.
 4. COORDINATE SYSTEMS HEREON FOR THE HORIZONTAL SYSTEM ARE BASED ON NORTH AMERICA DATUM OF 1983 (NAD 83) FLORIDA STATES PLANES, WEST ZONE AND FOR THE VERTICAL SYSTEM ARE BASED ON NORTH AMERICA VERTICAL DATUM 1988 (NAVD 88), AND THE UNITS ARE BASED ON US FOOT.
 5. OFFICIAL BENCHMARKS FOR THIS PROJECT COULD NOT BE FOUND AROUND OR NEAR THE JOB SITE OR AREA IN STUDY.
 6. THE BEARINGS VALUES SHOWN HEREON ARE BASED ON GPS/RTK OBSERVATIONS AND RTK CORRECTIONS FROM THE FLORIDA DEPARTMENT OF TRANSPORTATION, FLORIDA PERMANENT REFERENCE NETWORK.
 7. THE PROJECT SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF AN ABSTRACT OF TITLE. THERE MAY BE INSTRUMENTS OF RECORD AND NOT OF RECORD AFFECTING THE SUBJECT PARCEL THAT ARE NOT SHOWN ON THIS SURVEY.
 8. CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE-CALL AT 1-(800)-432-4770 AT LEAST 48 HOURS PRIOR TO PERFORMING ANY DIGGING TO VERIFY THE EXACT LOCATION OF EXISTING UTILITIES. A CONTRACTOR'S REPRESENTATIVE MUST BE PRESENT WHEN UTILITY COMPANIES LOCATE THEIR FACILITIES.

Call 48 hours before you dig
1-800-432-4770
It's the law!

Sunshine State One Call of Florida, Inc.

CERTIFICATION TO PLANS

THIS IS TO CERTIFY THAT THE CONSTRUCTION PLANS AND SPECIFICATIONS AS CONTAINED HEREIN WERE PREPARED AND DESIGNED BY LANDSHORE ENTERPRISES, LLC. THESE CONSTRUCTION DRAWINGS WERE PREPARED EITHER DIRECTLY OR UNDER THE SUPERVISION AND DIRECTION OF THE RESPECTIVE UNDERSIGNED, WHOSE LICENSED AS A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF FLORIDA.

Pieter Lombard
Digitally signed by Pieter Lombard
Date: 2022.10.17 12:41:58 -04'00'

ENGINEER PIETER M. LOMBARD REG. NO. 66596 DATE 10-17-2022

INDEX OF SHEETS

| SHEET NO. | SHEET DESCRIPTION |
|-----------|-------------------------------|
| 1 | COVER SHEET |
| 2 | GENERAL NOTES |
| 3 | LEGEND AND ABBREVIATIONS |
| 4-5 | TOPOGRAPHIC PLAN |
| 6 | SURVEY CONTROL PLAN |
| 7 | EROSION CONTROL ELEMENT PLAN |
| 8 | SUMMARY OF QUANTITIES |
| 9-12 | PLAN AND PROFILE |
| 13-19 | CROSS SECTIONS |
| 20 | DETAIL - STEP PILE |
| 21-25 | MANUFACTURER'S SPECIFICATIONS |

PREPARED FOR
Hidden Oaks Condo Association, Inc
3303 Hidden Timber Lane,
Winter Park, FL 32792

PREPARED BY

Landshore Enterprises, LLC
Your Shoreline Protection Specialists

118 35th Avenue Blvd.
Orlando, FL 32751
Office: 941-303-2188
Fax: 941-218-6113
Email: info@landshore.com

PIETER M. LOMBARD
ENGINEER, P.E.
FLORIDA REGISTRATION NO. 66596

| DESIGNED BY | CHK | DATE |
|----------------------|-----|------------|
| DESIGNED BY | MR | 09-13-2022 |
| CHECKED BY | MR | 09-13-2022 |
| CHECKED BY | AVD | 09-28-2022 |
| APPROVED BY | PM | 09-28-2022 |
| PROJECT NO. 2019-137 | | |

SHEET 1
OF 25

| REVISIONS | DATE | BY |
|--|------------|----|
| REVISION 1 - ADDITIONS ADDED - QUANTITIES | 11-23-2021 | MR |
| LABELS - TURBIDITY BARRIERS MOVED | 06/02/21 | MR |
| LABELS - TURBIDITY BARRIERS MOVED REVISID | 9/20/2022 | MR |
| ADDED UTILITY PLANTINGS TO TYPICAL SECTION | 9/20/2022 | MR |

GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF GOVERNMENT ENTITIES WHICH WILL APPLY, AND ALL OTHER LOCAL AND NATIONAL CODES WHERE APPLICABLE.
2. ALL CONSTRUCTION SHALL BE PERFORMED IN A SAFE MANNER, SPECIFICALLY, THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL BE STRICTLY OBSERVED.
3. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO COMMENCING CONSTRUCTION.
4. UPON RECEIPT OF NOTICE OF AWARD AND AFTER OBTAINING AN ENGINEERING CONSTRUCTION PERMIT FROM APPLICABLE AGENCIES, THE CONTRACTOR SHALL ARRANGE A PRE-CONSTRUCTION CONFERENCE TO INCLUDE CLIENT, THE CONTRACTOR, AND THE ENGINEER OF RECORD.
5. CONTRACTOR SHALL CONTACT STATE 811, AT LEAST 48 HOURS PRIOR TO PERFORMING ANY DIGGING TO VERIFY THE EXACT LOCATION OF EXISTING UTILITIES. A CONTRACTOR'S REPRESENTATIVE MUST BE PRESENT WHEN UTILITY COMPANIES LOCATE THEIR FACILITIES.
6. THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD AND UNDERGROUND UTILITIES.
7. EXISTING UNDERGROUND UTILITIES, IF SHOWN ON THE DRAWINGS, HAVE BEEN SHOWN BASED UPON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE REQUIRED TO MARK AND CLEARLY DELINEATE LOCATIONS OF EXISTING UTILITIES WITHIN AREAS OF WORK PRIOR TO EXCAVATION TO AVOID DAMAGE. THE CONTRACTOR SHALL MAKE ALL REASONABLE EFFORTS TO LOCATE, IDENTIFY AND MARK EXISTING UTILITIES BY FIELD VERIFICATION, COORDINATION WITH UTILITY COMPANIES AND ELECTRONIC OR OTHER SUCH DETECTION TECHNOLOGY AND MEANS AND SHALL BEAR ALL COSTS FOR THIS WORK.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPAIRS AND COSTS TO CORRECT DAMAGES RESULTING FROM FAILURE TO TAKE ALL NECESSARY PRECAUTIONS INCLUDING LOCATING, MARKING AND CAREFUL EXCAVATION. (CONTRACTOR SHALL AVOID DAMAGING EXISTING IRRIGATION SYSTEMS. IN CASE OF DAMAGE, THE CONTRACTOR SHALL REPLACE IRRIGATION SYSTEMS TO MATCH EXISTING CONDITIONS AND LOCATION).
9. IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER.
10. CONTRACTOR SHALL PROVIDE HIS OWN LINE AND GRADE FROM HORIZONTAL AND VERTICAL CONTROL.
11. FOR EACH PROJECT AREA, VERTICAL CONTROL IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD 88).
12. ANY N.A. V.D. BENCH MARK MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED AND PROPERLY REFERENCED BY A REGISTERED-PROFESSIONAL ENGINEER IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS OF THE STATE BOARD OF PROFESSIONAL LAND SURVEYORS PRIOR TO BEGINNING WORK AT THE SITE.
13. ALL STATIONS AND OFFSETS REFER TO [BASELINE] OF CONSTRUCTION, UNLESS OTHERWISE STATED.
14. CONTRACTOR SHALL NOT SCALE DIMENSIONS FROM PLANS FOR CONSTRUCTION PURPOSES.
15. THE CONTRACTOR IS ALERTED TO THE PRESENCE OF UNDERGROUND WIRES AND POLES IN THE PROJECT AREA. THE METHOD OF CONSTRUCTION IN THESE LOCATIONS MUST COMPLY WITH ALL OSHA SAFETY STANDARDS. THE CONTRACTOR SHALL INSPECT THESE SITES AND BE RESPONSIBLE FOR DETERMINING WHAT METHOD OF PREPARATION AND CONSTRUCTION WILL BE USED TO COMPLY WITH THESE REQUIREMENTS.
16. THE CONTRACTOR SHALL NOTIFY THE CLIENT AT LEAST 24 HOURS PRIOR TO BEGINNING OF WORK.
17. WHERE MATERIAL OR DEBRIS HAS WASHED OR FLOWED INTO OR BEEN PLACED IN WATER COURSES, GRAVITY SEWER, DITCHES, DRAINS, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING PROGRESS OF THE WORK, AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION.
18. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED BY THE CLIENT ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY THE WORK, EQUIPMENT, EMPLOYEES OR SUBCONTRACTORS TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS.

19. CONTRACTOR SHALL MAINTAIN EXISTING TRAFFIC FLOW PATTERNS THROUGHOUT ALL WORK OPERATIONS. MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE CITY, STATE AND LOCAL GOVERNMENT CODES.
20. ALL EXCAVATIONS SHALL COMPLY WITH OSHA'S EXCAVATION SAFETY STANDARDS AND TRENCH SAFETY CODES, CONTRACTOR SHALL FURNISH THE OWNER WITH WRITTEN ASSURANCE THAT HE WILL COMPLY WITH THESE REGULATIONS.
21. THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER. UPON FINAL CLEAN UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH.
22. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING TREES, STRUCTURES AND UTILITIES WHICH MAY NOT BE SHOWN ON PLANS. ANY STRUCTURE, PAVEMENT, TREES OR OTHER EXISTING IMPROVEMENT NOT SPECIFIED FOR REMOVAL WHICH IS TEMPORARILY DAMAGED, EXPOSED OR IN ANY WAY DISTURBED BY CONSTRUCTION PERFORMED UNDER THIS CONTRACT, SHALL BE REPAIRED, PATCHED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
23. CONTRACTOR TO RELOCATE TREES AS DIRECTED BY THE CLIENT. CONTRACTOR SHALL AVOID DAMAGE TO ANY EXISTING TREES TO REMAIN. EXISTING TREES SHALL BE REMOVED ONLY IF REQUIRED FOR CONSTRUCTION. THOSE TREES NOT INTERFERING WITH CONSTRUCTION SHALL BE PROTECTED IN PLACE.
24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING AT HIS OWN EXPENSE ANY ITEMS, INCLUDING BUT NOT LIMITED TO NEARBY PROPERTIES AND EXISTING DRAINAGE INFRASTRUCTURE, DAMAGED DUE TO HIS PERSONNEL OR EQUIPMENT INSIDE AND/OR OUTSIDE OF THE CONSTRUCTION AREA.
25. CONTRACTOR SHALL ENSURE THAT ALL MUD OR ANY OTHER TYPE OF DEBRIS IS CLEANED FROM ADJACENT ROADWAYS (WHERE APPLICABLE) AT THE END OF EACH DAY. CONTRACTOR SHALL BE LIABLE FOR ANY PERSONAL OR PROPERTY DAMAGE CAUSED BY ANY TYPE OF DEBRIS LEFT ON ROADWAYS AND/OR PEDESTRIAN WAYS.
26. CONTRACTOR SHALL AVOID DAMAGING EXISTING IRRIGATION SYSTEMS. IF PLANS AND BLUEPRINTS ARE NOT PROVIDED OR AVAILABLE THE CONTRACTOR WILL NOT BE RESPONSIBLE.
27. THE INFORMATION PROVIDED IN THESE DRAWINGS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS WHICH WILL BE ENCOUNTERED DURING THE COURSE OF WORK. THE CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH BIDS WILL BE BASED.

7. FLOATING TURBIDITY BARRIERS SHALL BE INSTALLED AND MAINTAINED AS CLOSE AS POSSIBLE TO THE CONSTRUCTION OPERATION UPSTREAM AND DOWNSTREAM OF CANALS. TURBIDITY BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANS AND DETAILS.
8. TURBIDITY BARRIERS WILL BE RELOCATED ALONG THE SHORELINE AS THE SECTIONS/PHASES OF CONSTRUCTION ARE COMPLETED.
9. TURBIDITY SCREENS OR EQUIVALENT SHALL BE PROPERLY EMPLOYED AND MAINTAINED AS NECESSARY DURING CONSTRUCTION ACTIVITIES SO THAT TURBIDITY LEVELS DO NOT EXCEED 29 NTU'S ABOVE NATURAL BACKGROUND 50 FEET DOWNSTREAM OF POINT OF DISCHARGE. IF TURBIDITY LEVELS EXCEED THESE LIMITS, PROJECT ACTIVITIES SHALL IMMEDIATELY CEASE, AND WORK SHALL NOT RESUME UNTIL TURBIDITY LEVELS DROP TO WITHIN THESE LIMITS.
10. CONTRACTOR SHALL SOD GRASS AREAS DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO OWNER.
11. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE ENVIRONMENTAL PROTECTION AGENCY (EPA) AND THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES).
12. IF 1 ACRE OR MORE IS DISTURBED, A NPDES GENERAL PERMIT IS REQUIRED.

SOIL EROSION, SEDIMENT, AND TURBIDITY CONTROL GENERAL NOTES

1. THIS PROJECT IS SUBJECT TO ALL RELATED ENVIRONMENTAL REQUIREMENTS WHICH INCLUDE A "CONTROL OF EROSION AND SEDIMENTATION PLAN". THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING NECESSARY AND ADEQUATE MEASURES FOR PROPER CONTROL OF EROSION DUE TO SEDIMENTATION RUNOFF FROM THE SITE PRIOR TO CONSTRUCTION OPERATIONS IN A PARTICULAR AREA. ALL SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO START OF CONSTRUCTION. FIELD ADJUSTMENTS WITH RESPECT TO LOCATIONS AND DIMENSIONS MAY BE MADE BY THE ENGINEER AS REQUIRED.
2. EROSION CONTROL MEASURES WILL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RAIN FOR DAMAGE AND GENERAL EFFECTIVENESS. ANY DAMAGED OR INEFFECTIVE CONTROLS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR.
3. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED, IF DEEMED NECESSARY, BY THE ON-SITE INSPECTOR.
4. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. TEMPORARY AND PERMANENT MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL TEMPORARY SEDIMENT CONTROL DEVICES SHALL BE LEFT IN PLACE AND MAINTAINED UNTIL THE AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION.
6. ALL CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ON TO ANY PUBLIC RIGHT-OF-WAY. THIS SHALL REQUIRE PERIODIC TOP DRESSING WITH STONE, AS CONDITIONS REQUIRE. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED ON TO PUBLIC RIGHT-OF-WAY OR INTO STORM DRAINS SHALL BE PROMPTLY REMOVED BY CONTRACTOR.

© Erosion Restoration, LLC.

| REVISIONS | | |
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| DATE | BY | DESCRIPTION |
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| | | |

Erosion and Sedimentation Control Plan
for Ditch
at Hidden Oaks Condominium Association, Inc.



Landshore Enterprises, LLC
Environmental Engineering, Erosion
Control & Construction Management
& Other Erosion Restoration, LLC
"Your Shoreline Protection Specialists"
4550 N. Powerline Road, Ste. B102
Fort Lauderdale, FL 33309
Phone: 954-327-3500
Fax: 954-333-5558
E-mail: info@landshore.com

BY
PIETER M. LOMBARD, P.E.
FL LIC. No. 66596
ENGINEER OF RECORD

GENERAL NOTES

| | | |
|-------------------------|--------------------|----------|
| PROJECT NO. 2019-137 | SHEET 2 | OF 25 |
| DRAWN BY MR | DATE 07/31/2020 | SCALE |

LEGEND

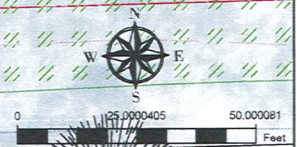
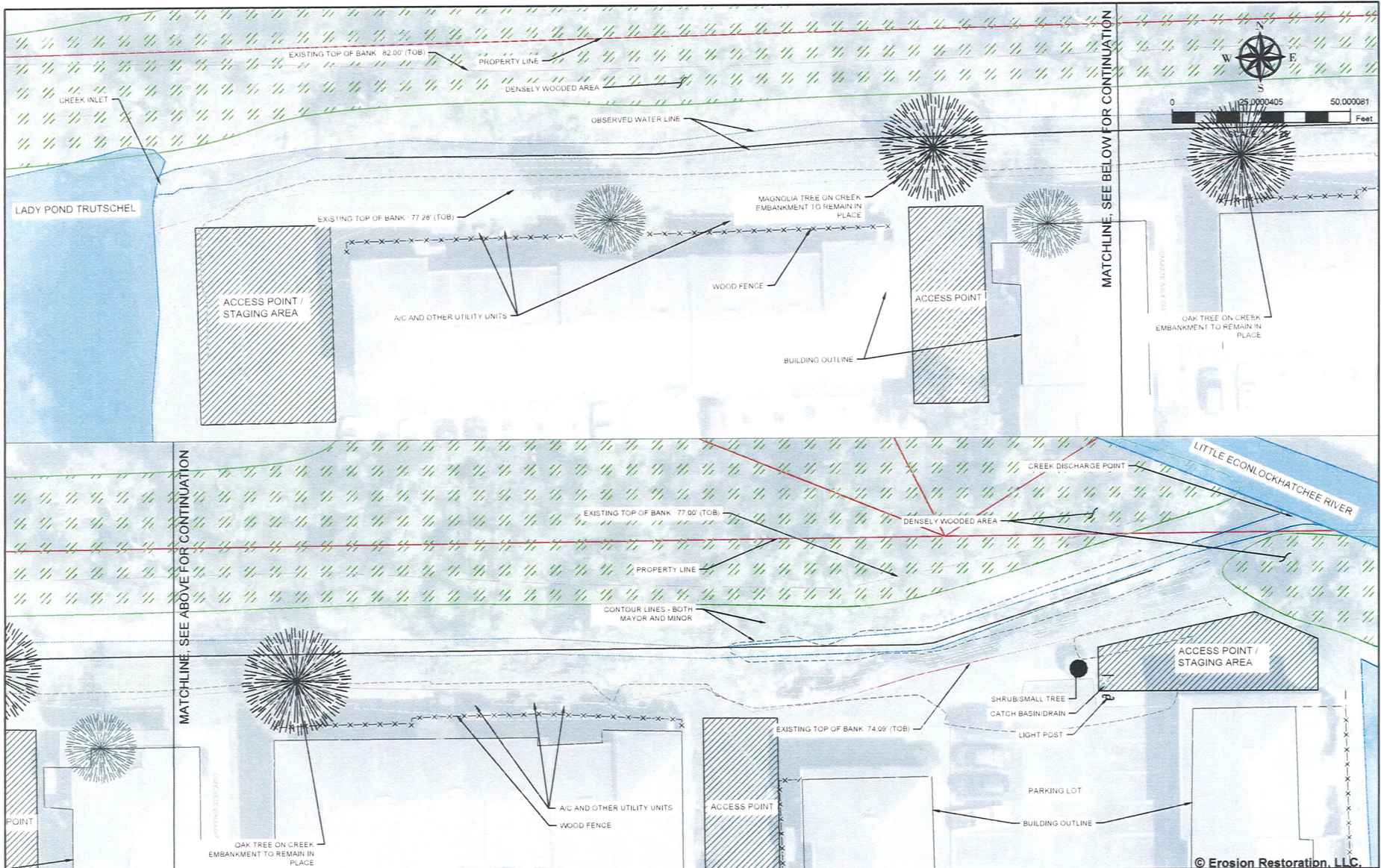
| SYMBOL/LINE | DESCRIPTION | USED | SYMBOL/LINE | DESCRIPTION | USED |
|----------------|---|-------------------------------------|-------------|--|-------------------------------------|
| | BASILINE | <input checked="" type="checkbox"/> | | DETAIL NUMBER | <input type="checkbox"/> |
| N32°59'57.19"E | BEARING | <input checked="" type="checkbox"/> | | DETAIL SHEET NUMBER | <input type="checkbox"/> |
| | CATCH BASIN | <input type="checkbox"/> | | ARTICULATING CONCRETE BLOCK MATS (ACB) | <input type="checkbox"/> |
| | CENTERLINE | <input checked="" type="checkbox"/> | | BEDDING STONE/CRUSHED CONCRETE | <input checked="" type="checkbox"/> |
| | DIAMETER | <input type="checkbox"/> | | ESBANKMENT | <input checked="" type="checkbox"/> |
| 2.94 | EXISTING GROUND ELEVATION (FROM SURVEY) | <input checked="" type="checkbox"/> | | HYDROTEX (ENVIROMAT) | <input checked="" type="checkbox"/> |
| | HYDRANT | <input type="checkbox"/> | | REGULAR EXCAVATION | <input checked="" type="checkbox"/> |
| | LIGHT POLE | <input checked="" type="checkbox"/> | | RIP-RAP | <input checked="" type="checkbox"/> |
| | OFFICIAL BENCHMARK (BM) | <input checked="" type="checkbox"/> | | RIP-RAP (BOULDER) | <input checked="" type="checkbox"/> |
| | PALM | <input type="checkbox"/> | | FLEXAMAT | <input type="checkbox"/> |
| | POLE | <input type="checkbox"/> | | PLANTS | <input checked="" type="checkbox"/> |
| | SET OR FOUND SURVEY CONTROL POINT | <input type="checkbox"/> | | SEAWALL | <input type="checkbox"/> |
| | SIGN (SINGLE SUPPORT) | <input type="checkbox"/> | | STACKED CANAL BANK STABILIZATION (CBS) | <input type="checkbox"/> |
| | SIGNAL MAST ARM | <input type="checkbox"/> | | STRUCTURAL FILL - CROSS SECTION | <input checked="" type="checkbox"/> |
| | SURVEY CONTROL POINT (SOP) | <input type="checkbox"/> | | STRUCTURAL FILL - PROFILE | <input checked="" type="checkbox"/> |
| | SURVEY CONTROL POINT (SOP) | <input type="checkbox"/> | | | |
| | TREE | <input checked="" type="checkbox"/> | | | |
| | WIRING PULL BOX | <input type="checkbox"/> | | | |
| | CANAL MAINTENANCE EASEMENT | <input type="checkbox"/> | | | |
| | CANAL RIGHT OF WAY | <input type="checkbox"/> | | | |
| | CANAL RIGHTS ON RESERVATION | <input type="checkbox"/> | | | |
| | EFT BASAL TUBE | <input type="checkbox"/> | | | |
| | EFT SACRIFICIAL TUBE | <input type="checkbox"/> | | | |
| | EFT SUPPORTING TUBE | <input type="checkbox"/> | | | |
| | EXISTING EDGE FILTER TUBE | <input type="checkbox"/> | | | |
| | SAFETY FENCE | <input checked="" type="checkbox"/> | | | |
| | EXISTING WOOD CHAIN LINK FENCE | <input checked="" type="checkbox"/> | | | |
| | EXISTING GUARDRAIL | <input type="checkbox"/> | | | |
| | EXISTING SHRUBS | <input type="checkbox"/> | | | |
| | GRASS SOD | <input checked="" type="checkbox"/> | | | |
| | FLEXAMAT | <input type="checkbox"/> | | | |
| | GUY ANCHOR | <input type="checkbox"/> | | | |
| | PRIORITY 01 - SERIOUS CONDITION | <input type="checkbox"/> | | | |
| | PRIORITY 02 - POOR CONDITION | <input type="checkbox"/> | | | |
| | PRIORITY 03 - FAIR CONDITION | <input type="checkbox"/> | | | |
| | PROPOSED CHAIN LINK FENCE | <input type="checkbox"/> | | | |
| | PROPOSED HANDRAIL | <input type="checkbox"/> | | | |
| | SHEET PILING | <input type="checkbox"/> | | | |

ABBREVIATIONS

| | |
|---|--|
| ASPH = ASPHALT | PG = PAGE |
| BL = BASELINE | PI = POINT OF INTERSECTION |
| BLCP = BASELINE CONTROL POINT (TO BE SET BY CONTRACTOR) | P&P = PLAN AND PROFILE |
| BM = BENCHMARK | PROP = PROPOSED |
| C.L.F. = CHAIN LINK FENCE | PVC = POLYVINYL CHLORIDE |
| C.M.E. = CANAL MAINTENANCE EASEMENT | P.V.M.T. = PAVEMENT |
| CAP = CORRUGATED ALUMINUM PIPE | R.W. = RIGHT OF WAY |
| CBS = CANAL BANK STABILIZATION | RT = OFFSET RIGHT |
| CMP = CORRUGATED METAL PIPE | SAN = SANITARY |
| COA = COLLAPSED AREA | SCP = SURVEY CONTROL POINT |
| CONC = CONCRETE | SDWK = SIDEWALK |
| COR = CORNER | WMD = WATER MANAGEMENT DISTRICT |
| CSLAB = CONCRETE SLAB | SP = SHEET PILING |
| DIP = DUCTILE IRON PIPE | SPK = SPRINKLER |
| DWTT = DESIGN WATER TABLE | SWPPP = STORMWATER POLLUTION PREVENTION PLAN |
| ELEV = ELEVATION | ST = STORM |
| EOP = EDGE OF PAVEMENT | STA = STATION |
| EGW = EDGE OF WATER | STD = STANDARD |
| ERA = ERODED AREA | TBM = TEMPORARY BENCHMARK |
| ESMT = EASEMENT | TOBP = TOP OF BANK (PROPOSED) |
| ETOB = EXISTING TOP OF BANK | TOB = TOP OF BANK |
| EXIST = EXISTING | TOS = TOP OF SLOPE |
| FDOT = FLORIDA DEPARTMENT OF TRANSPORTATION | TYP = TYPICAL |
| FT = FEET | UT = UTILITY |
| G = GAS | VERT = VERTICAL |
| GR = GRADE | W = WATER |
| HFT = HOUSE FOOTPRINT | WD = WOOD DOCKS |
| HOR = HORIZONTAL | WL = WATERLINE |
| HWT = HIGH WATER TABLE | XS = CROSS SECTION |
| INV = INVERT | |
| IRR = IRRIGATION | |
| LB = POUND | |
| LT = OFFSET LEFT | |
| MUTCD = MANUAL OF UNIFORM TRAFFIC DEVICES | |
| NA = NOT APPLICABLE | |
| NAD = NORTH AMERICAN DATUM | |
| NAVD = NATIONAL AMERICAN VERTICAL DATUM | |
| NG = NATURAL GRADE | |
| NGVD = NATIONAL GEODETIC VERTICAL DATUM | |
| NTS = NOT TO SCALE | |
| NTU = NEPHELOMETRIC TURBIDITY UNITS | |
| OWT = OBSERVED WATER TABLE | |
| P/L = PROPERTY LINE | |
| PB = PLAT BOOK | |
| PED = PEDESTRIAN | |

© Erosion Restoration, LLC.

| REVISIONS | | | Erosion and Sedimentation Control Plan for Ditch at Hidden Oaks Condominium Association, Inc. | Landshore Enterprises, LLC Environmental Engineering, Erosion Control & Construction Management 6767 Erosion Restoration, LLC "Your Shoreline Protection Specialists" | 6555 N. Fawcette Road, Ste. #302 Fort Lauderdale, FL 33309 Office: 954-537-8500 Fax: 954-533-1558 E-mail: info@landshore.com | BY PIETER M. LOMBARD, P.E. FL LIC No. 66596 ENGINEER OF RECORD | LEGEND AND ABBREVIATIONS | | |
|-----------|----|-------------|---|---|--|---|--------------------------|------------|-------|
| DATE | BY | DESCRIPTION | | | | | PROJECT NO. | SHEET | OF |
| | | | | | | | 2019-137 | 3 | 25 |
| | | | | | | | DRAWN BY | DATE | SCALE |
| | | | | | | | MR | 07/31/2020 | N/A |



| REVISIONS | | | |
|------------|----|---------------------------|--|
| DATE | BY | DESCRIPTION | |
| 07/31/2020 | MR | MATCHLINE NORTH FOR ADDED | |
| | | | |
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Erosion and Sedimentation Control Plan
for Ditch
at Hidden Oaks Condominium Association, Inc.



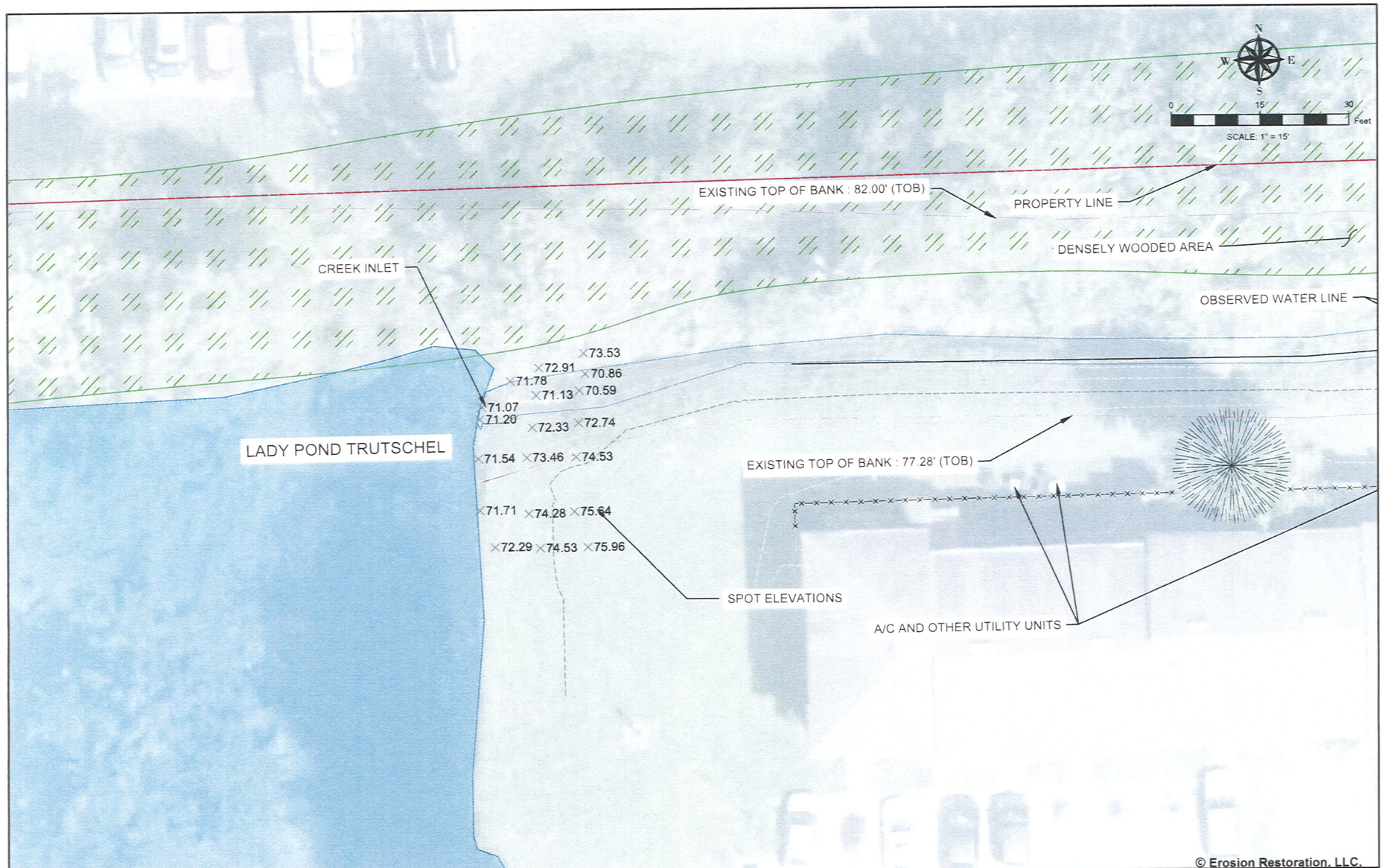
Landshore Enterprises, LLC
Environmental Engineering, Erosion
Control & Construction Management
4120 Graham Road, Suite 100
Your Shoreline Protection Specialist
8955 N. Powerline Road, Ste. #302
Fort Lauderdale, FL 33309
Office: 954.327.5300
Fax: 954.533.1535
E-mail: info@landshore.com

BY
PIETER M. LOMBARD, P.E.
FL LIC No. 66596
ENGINEER OF RECORD

TOPOGRAPHIC PLAN

| | | |
|-------------------------|--------------------|-------------------|
| PROJECT NO. 2019-137 | SHEET 4 | OF 25 |
| DRAWN BY MR | DATE 07/31/2020 | SCALE 1" = 25' |

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| REVISIONS | | |
|-----------|----|--|
| DATE | BY | DESCRIPTION |
| 7/12/2021 | MR | Additional page needed for spot elevation. |

Erosion and Sedimentation Control Plan
for Ditch
at Hidden Oaks Condominium Association, Inc.



Landshore Enterprises, LLC
Environmental Engineering, Erosion Control & Construction Management
4000 E. University Ave.
"Your Shoreline Protection Specialist"

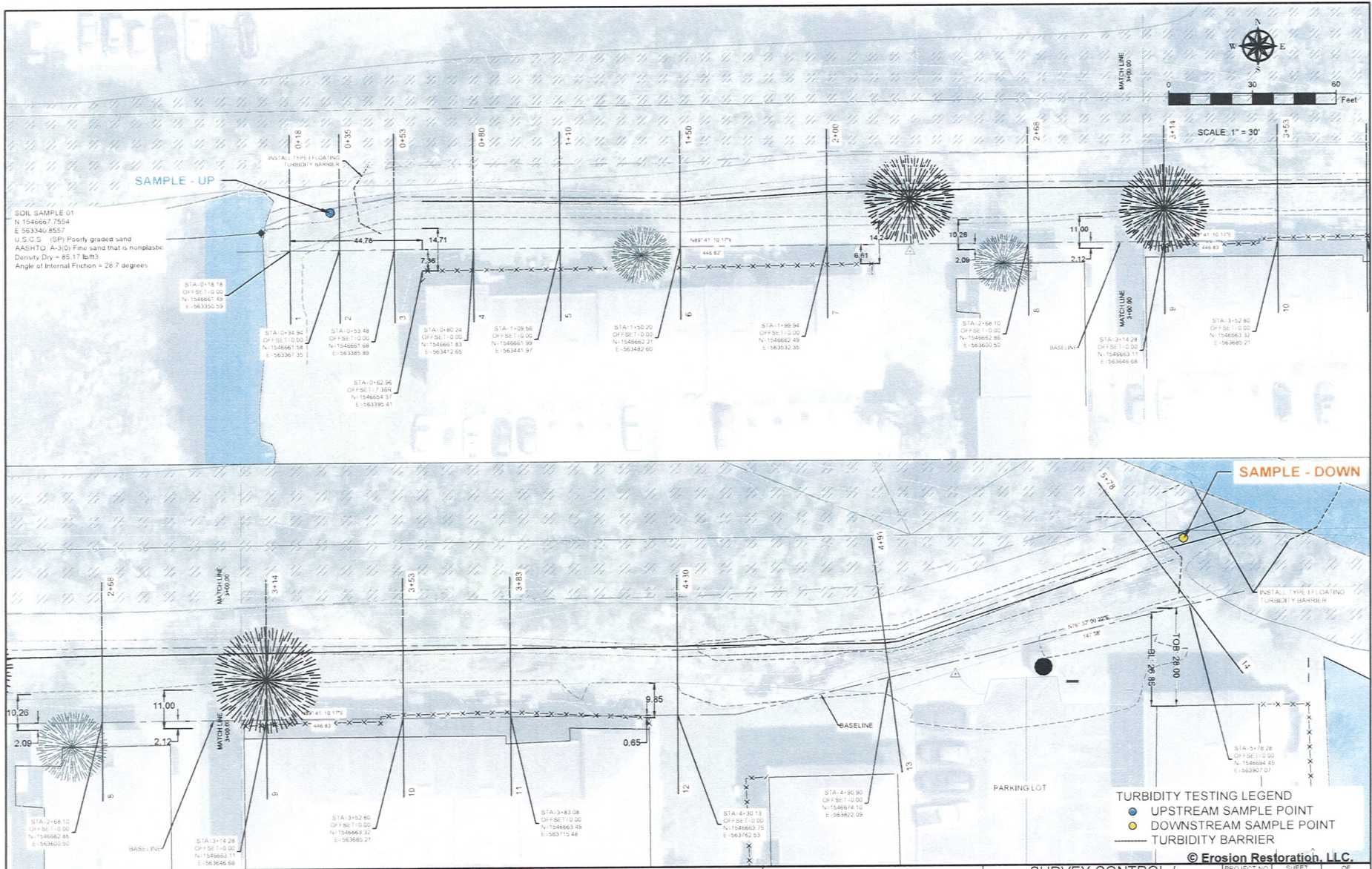
4601 N. Powerline Road, Ste. #302
Port Lauderdale, FL 33309
Office: 954.327.9300
Fax: 954.533.1556
E-mail: info@landshore.com

BY
PIETER M. LOMBARD, P.E.
FL LIC No. 66596
ENGINEER OF RECORD

TOPOGRAPHIC
PLAN

© Erosion Restoration, LLC.

| | | |
|-------------------------|--------------------|-------------------|
| PROJECT NO. 2019-137 | SHEET 5 | OF 25 |
| DRAWN BY MR | DATE 07/31/2020 | SCALE 1" = 15' |



| REVISIONS | | | |
|-----------|----|-----------|-------------|
| DATE | BY | REVISIONS | DESCRIPTION |
| | | | |
| | | | |

Erosion and Sedimentation Control Plan
 for Ditch
 at Hidden Oaks Condominium Association, Inc.



Landshore Enterprises, LLC
 Environmental Engineering, Erosion
 Control & Construction Management
 4700 Erosion Restoration, LLC
 "Your Shoreline Protection Specialists"

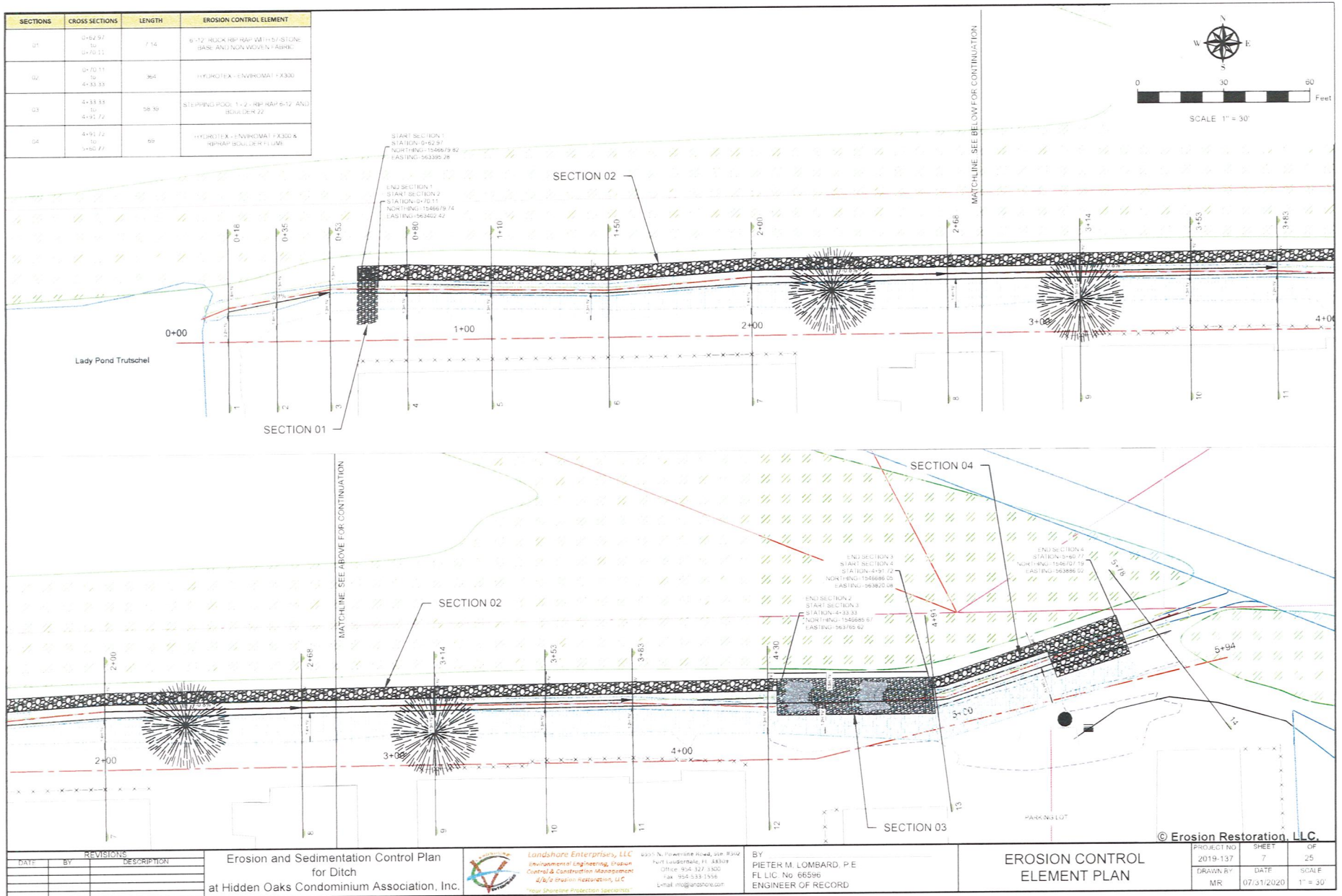
8552 N. Powerline Road, Ste. #302
 Fort Lauderdale, FL 33329
 Office: 954-221-5500
 Fax: 954-533-1516
 e-mail: erob@landshore.com

BY
PIETER M LOMBARD, P.E.
 FL LIC No. 66596
 ENGINEER OF RECORD

**SURVEY CONTROL /
 TURBIDITY TESTING LOCATIONS
 PLAN**

| | | |
|-------------------------|--------------------|-------------------|
| PROJECT NO. 2019-137 | SHEET 6 | OF 25 |
| DRAWN BY MR | DATE 07/31/2020 | SCALE 1" = 30' |

| SECTIONS | CROSS SECTIONS | LENGTH | EROSION CONTROL ELEMENT |
|----------|--------------------------|--------|---|
| 01 | 0+24.97 to 0+70.11 | 7.14 | 6" 1/2" ROCK RIPRAP WITH 15" STONE BANK AND ROCK WOOL FILLER |
| 02 | 0+70.11 to 4+53.53 | 365 | HYDROTEX - ENVIROMAT F-X300 |
| 03 | 4+53.53 to 4+92.72 | 39.19 | STEPPING ROCK 1-2" RIP RAP 6-12" AND BORDER 22 |
| 04 | 4+92.72 to 5+60.77 | 68 | HYDROTEX - ENVIROMAT F-X300 & RIPRAP BOULDER FILLING |



| REVISIONS | | |
|-----------|----|-------------|
| DATE | BY | DESCRIPTION |
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| | | |
| | | |

Erosion and Sedimentation Control Plan
for Ditch
at Hidden Oaks Condominium Association, Inc.



Landshore Enterprises, LLC
Environmental Engineering, Erosion
Control & Construction Management
4600 Spring Hill Road, Suite 100
Fort Lauderdale, FL 33309
Office: 954-337-1300
Fax: 954-333-1336
E-mail: mlog@landshore.com

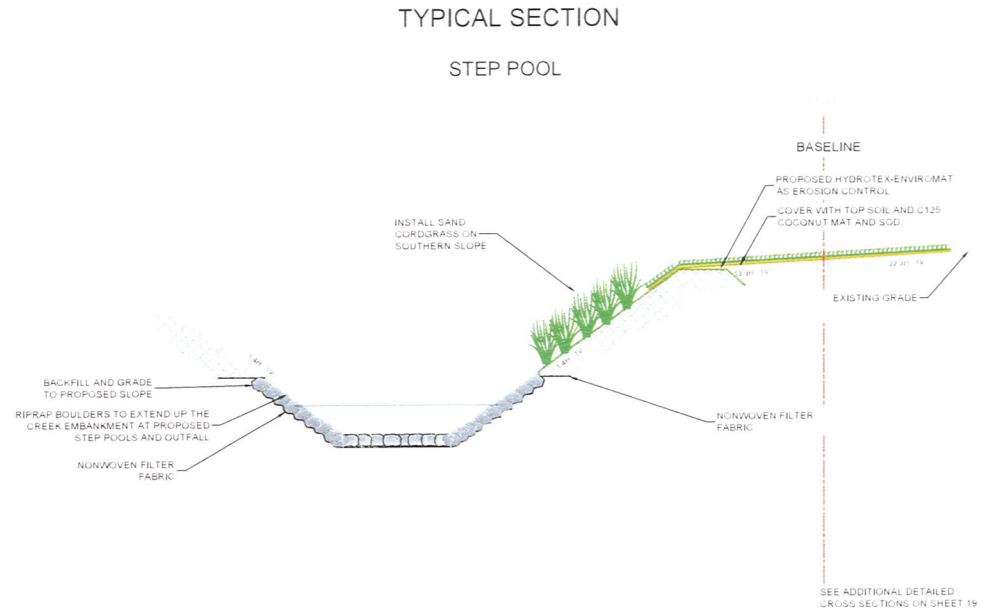
BY
PIETER M. LOMBARD, P.E.
FL LIC. No. 66596
ENGINEER OF RECORD

EROSION CONTROL
ELEMENT PLAN

| PROJECT NO. | SHEET | OF |
|-------------|------------|----------|
| 2019-137 | 7 | 25 |
| DRAWN BY | DATE | SCALE |
| MR | 07/31/2020 | 1" = 30' |

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| ITEM NUMBER | FDOT OR LSE REFERENCE NUMBER | DESCRIPTION | UNIT | QUANTITY TOTAL |
|-------------|------------------------------|--------------------------------|------|----------------|
| | | | | |
| 1 | 101-1 | MOBILIZATION | LS | 1 |
| 2 | 110-1-1 | CLEARING AND GRUBBING | LS | 1 |
| 3 | 120-1 | REGULAR EXCAVATION | CY | 313 |
| 4 | 120-6 | EMBANKMENT | CY | 133 |
| 5 | 02930-2.1 | SOD | SY | 769 |
| 6 | FX300 | HYDROTEX - ENVIROMAT FX300 | SY | 1163 |
| 7 | 900-2 | C125 EROSION CONTROL BLANKET | SY | 769 |
| 8 | 530-3-4A | RIPRAP TYPE "A" 6-12" | TON | 90 |
| 9 | 530-3-4B | RIPRAP BOULDERS 22" | TON | 16 |
| 10 | 530-3-4D | LIME ROCK #4 | TON | 25 |
| 11 | 900-2.2 | NONWOVEN GEOTEXTILE FABRIC | SY | 607 |
| 12 | 012170 | FLOWABLE FILL (CONCRETE FILL) | CY | 105 |



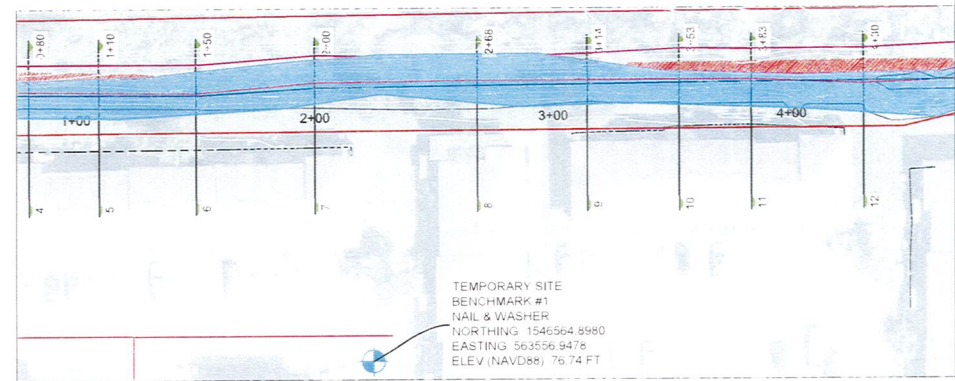
QUANTITY INFORMATION FOOTNOTES

- 01 -PROJECT LENGTH 495.5 ft
- 110-1-1 - INCLUDES CLEARING AND GRUBBING OF ALL MATERIAL WILL BE REMOVED FROM THE JOB SITE
- 120-6 - INCLUDES SUITABLE BACKFILL COMPACTED TO 95% DENSITY AT OPTIMUM MOISTURE (ACCORDING ASTM D 698)
- 02930-2.1 -INCLUDES GROUND PREPARATION AND COMPLETE MAINTENANCE OF THE AREA UNTIL FINAL COMPLETION. REFER TO VEGETATION SPECIFICATION 02930 FOR ADDITIONAL PLANTING DETAILS.
- FX300 -FOR CONCRETE FILL NEEDED IS AVERAGED TO 97 ft²/yd³.

FLORIDA DEPARTMENT OF TRANSPORTATION
LSE LANDSHORE ENTERPRISES, LLC

SCALE: N.T.S.

BENCHMARK LOCATION



SCALE: 1 : 200

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| REVISIONS | | |
|------------|----|------------------------------------|
| DATE | BY | DESCRIPTION |
| 09/02/2020 | MR | REVISION 1: ADD BENCHMARK LOCATION |
| | | |
| | | |

Erosion and Sedimentation Control Plan
for Ditch
at Hidden Oaks Condominium Association, Inc.



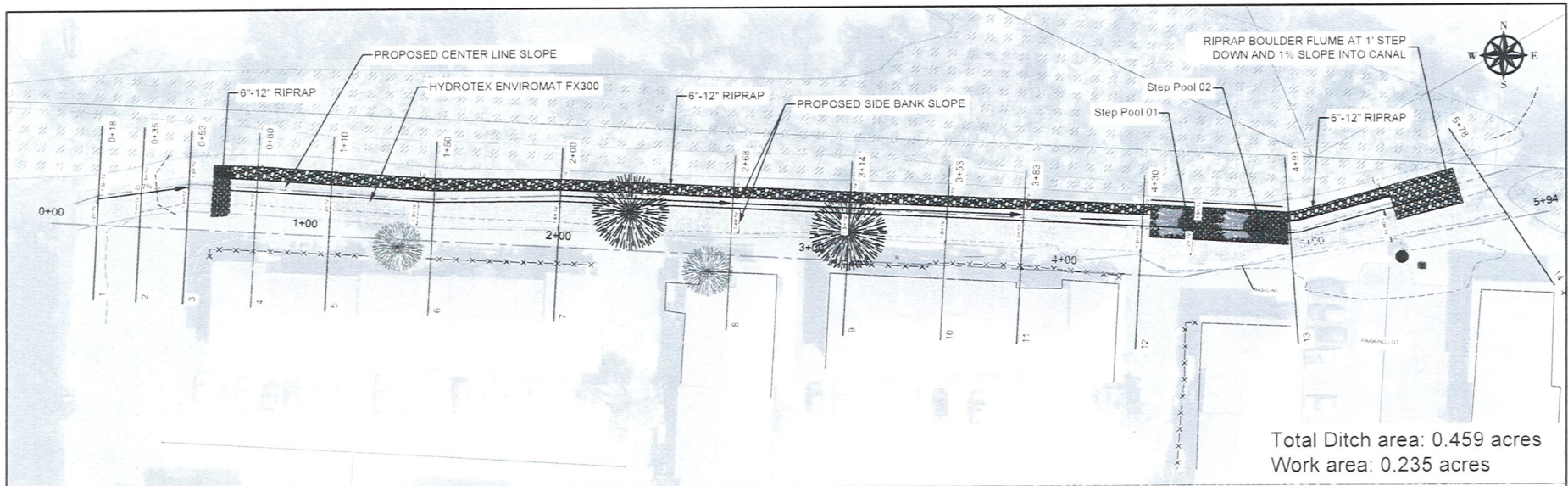
Landshore Enterprises, LLC
environmental engineering, erosion
control & construction management
4769 S. Highway 190, Suite 100
"Your Shoreline Protection Specialist"

6530 N. Powerline Road, Ste. 400
Fort Lauderdale, FL 33309
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Fax: 954-533-1356
Email: info@landshore.com

BY:
PIETER M. LOMBARD P.E.
FL LIC No 56596
ENGINEER OF RECORD

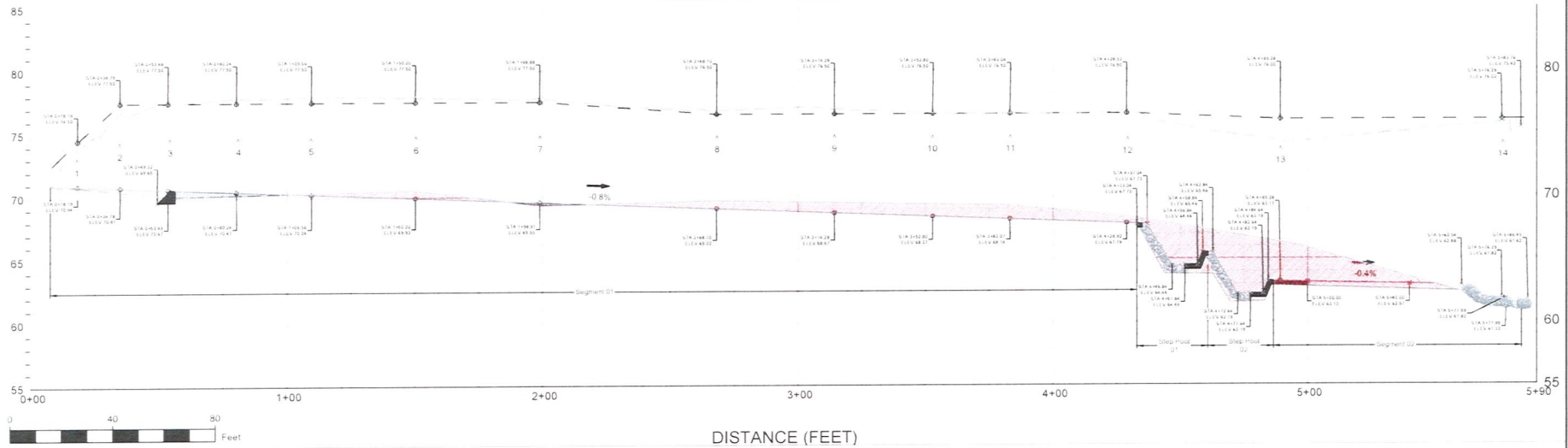
SUMMARY OF QUANTITIES

| | | | | | |
|-------------|----------|-------|------------|-------|----------|
| PROJECT NO. | 2019-137 | SHEET | 8 | OF | 25 |
| DRAWN BY | MR | DATE | 07/31/2020 | SCALE | AS SHOWN |



Total Ditch area: 0.459 acres
Work area: 0.235 acres

Hidden Oaks Center Line



| REVISIONS | | |
|-----------|----|-------------|
| DATE | BY | DESCRIPTION |
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Erosion and Sedimentation Control Plan
for Ditch
at Hidden Oaks Condominium Association, Inc.

Landshore Enterprises, LLC
Environmental Engineering, Erosion Control & Construction Management
4700 E. Inshore Boulevard, LLC
"Your Shoreline Protection Specialists"

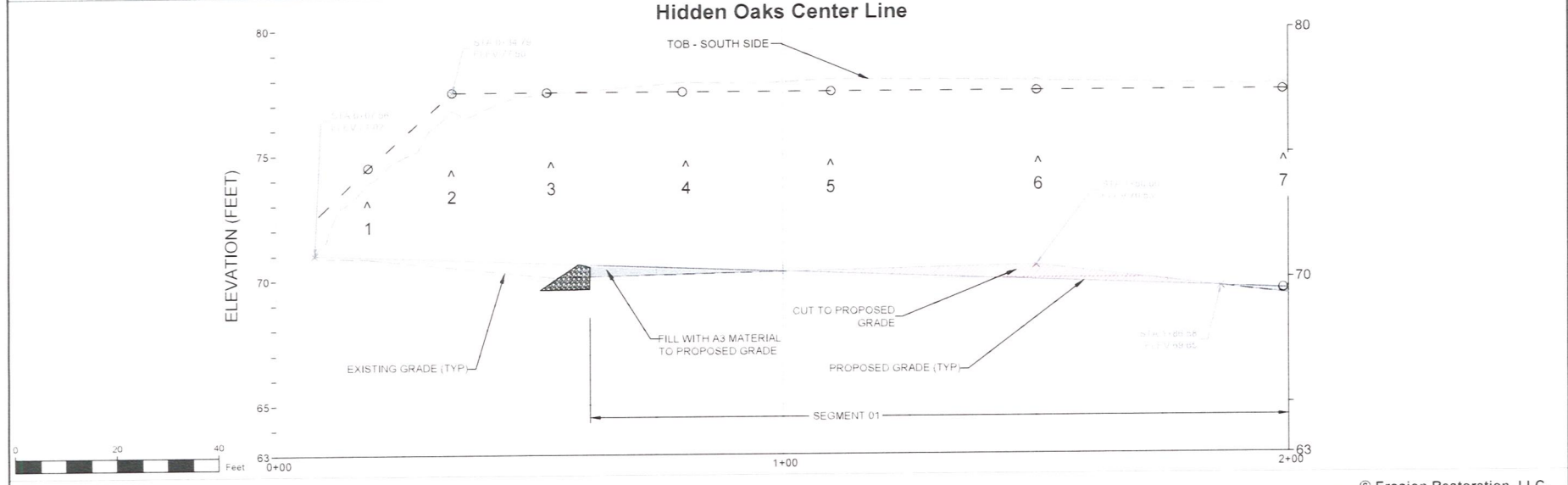
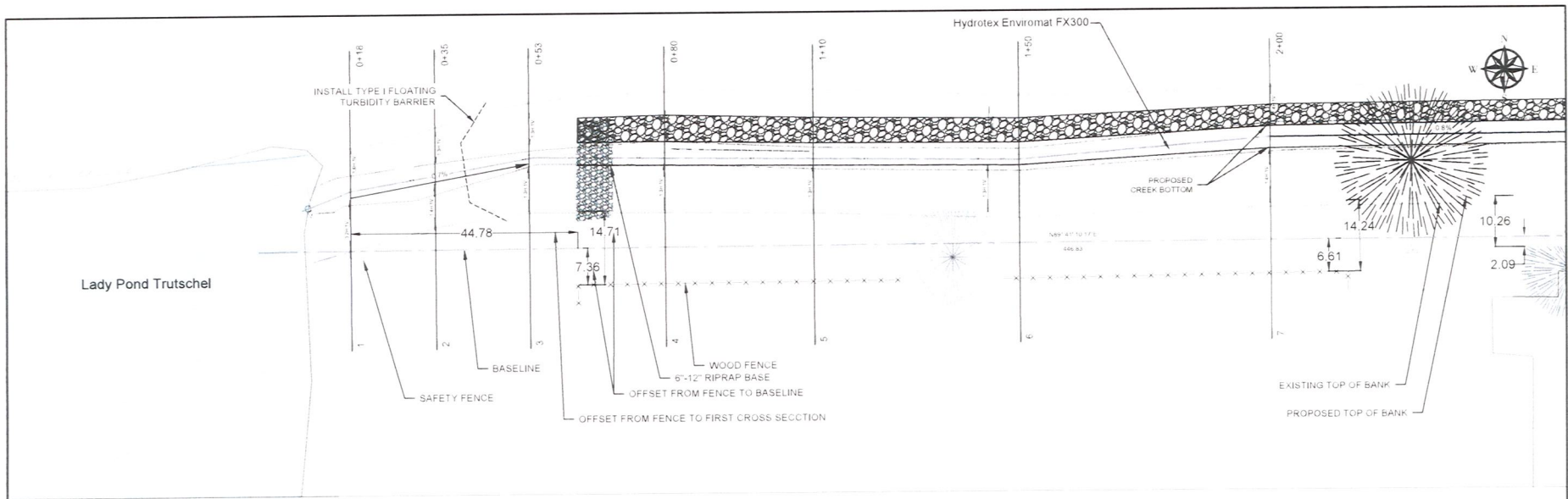
6552 N. Powerline Road, Ste. 4002
Fort Lauderdale, FL 33308
Office: 954-421-9300
Fax: 954-533-1558
Email: info@landshore.com

BY
PIETER M. LOMBARD, P.E.
FL LIC. No. 66596
ENGINEER OF RECORD

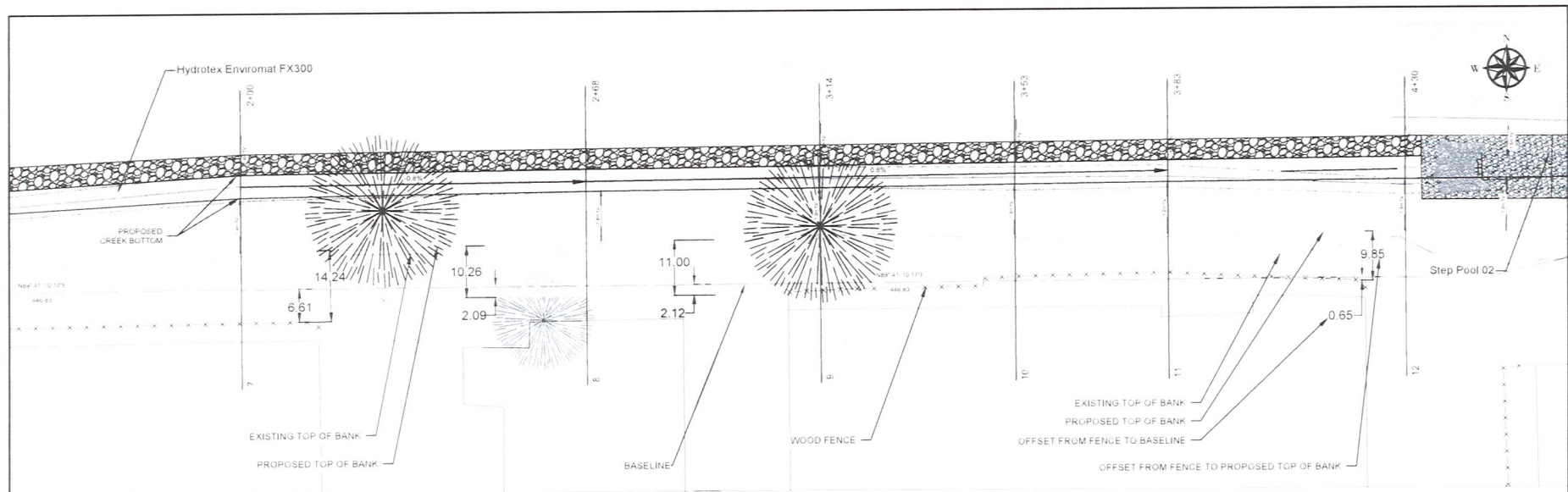
PLAN AND PROFILE

| | | |
|-------------------------|--------------------|-------------------|
| PROJECT NO. 2019-137 | SHEET 8 | OF 25 |
| DRAWN BY MR | DATE 07/31/2020 | SCALE 1" = 60' |

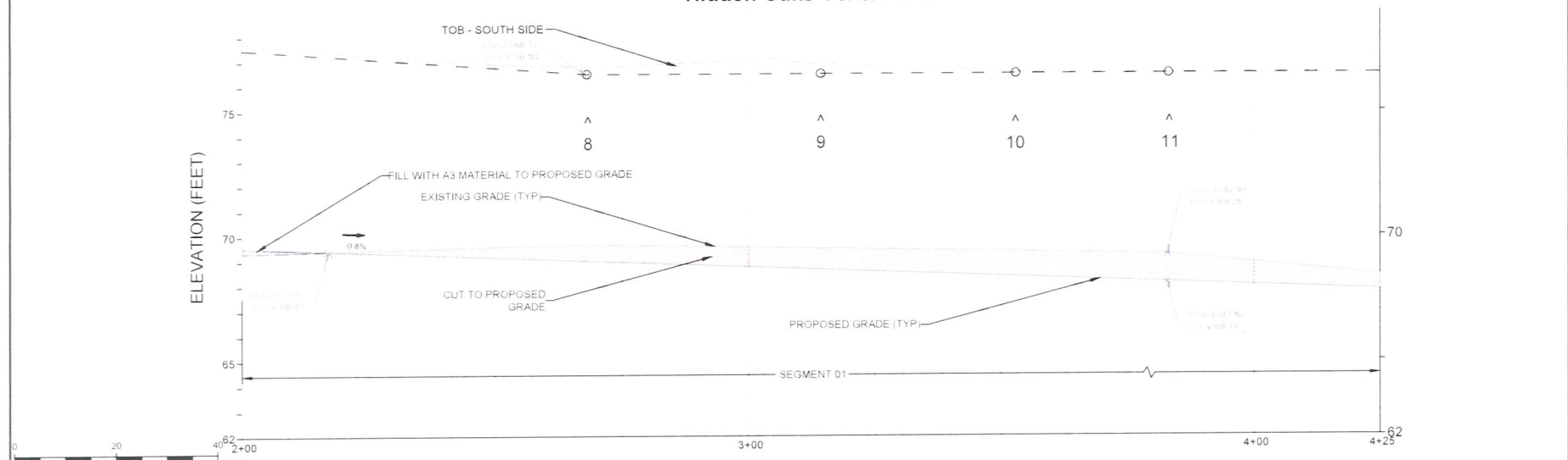
© Erosion Restoration, LLC.



| <table border="1"> <thead> <tr> <th colspan="3">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> | | | REVISIONS | | | DATE | BY | DESCRIPTION | | | | | | | <p>Erosion and Sedimentation Control Plan for Ditch at Hidden Oaks Condominium Association, Inc.</p> | <p>Landshore Enterprises, LLC Environmental Engineering, Erosion Control & Construction Management 4790 S. Erosion Restoration, LLC "Your Erosion Protection Specialist"</p> <p>6010 N. Peawee Road, Ste. 4302 Fort Lauderdale, FL 33309 Office: 954-337-1530 Fax: 954-333-1536 Email: efl@landshore.com</p> | <p>BY: PIETER M. LOMBARD, P.E. FL LIC No. 66596 ENGINEER OF RECORD</p> | <p>PLAN AND PROFILE</p> | <p>PROJECT NO: 2019-137 DRAWN BY: MR</p> <p>SHEET: 10 DATE: 07/31/2020</p> <p>OF: 25 SCALE: 1" = 20'</p> |
|---|----|-------------|-----------|--|--|------|----|-------------|--|--|--|--|--|--|--|---|---|--------------------------------|--|
| REVISIONS | | | | | | | | | | | | | | | | | | | |
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Hidden Oaks Center Line



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| DATE | BY | DESCRIPTION |
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Erosion and Sedimentation Control Plan
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at Hidden Oaks Condominium Association, Inc.

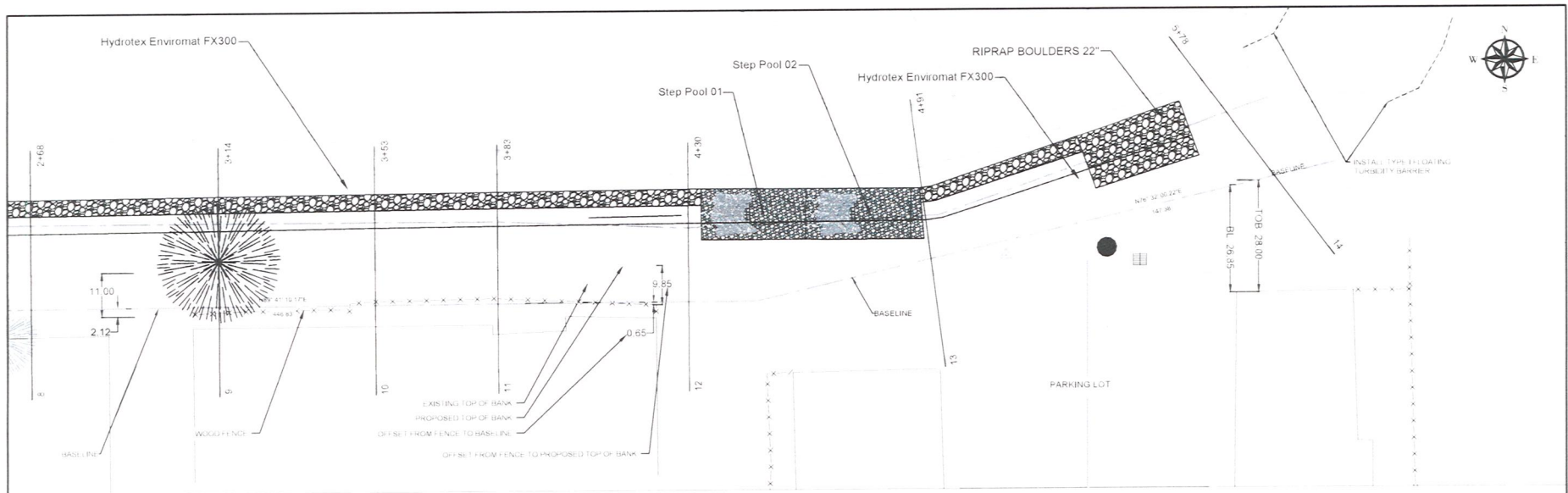


Landshore Enterprises, LLC
Environmental Engineering, Analysis
Control & Construction Management
4275/17 Mission West Blvd, LLC
"Your Shoreline Protection Specialists"
6052 W. Powerline Road, Ste. 4302
Fort Lauderdale, FL 33309
Office: 954-927-9300
Fax: 954-533-1556
Email: info@landshore.com

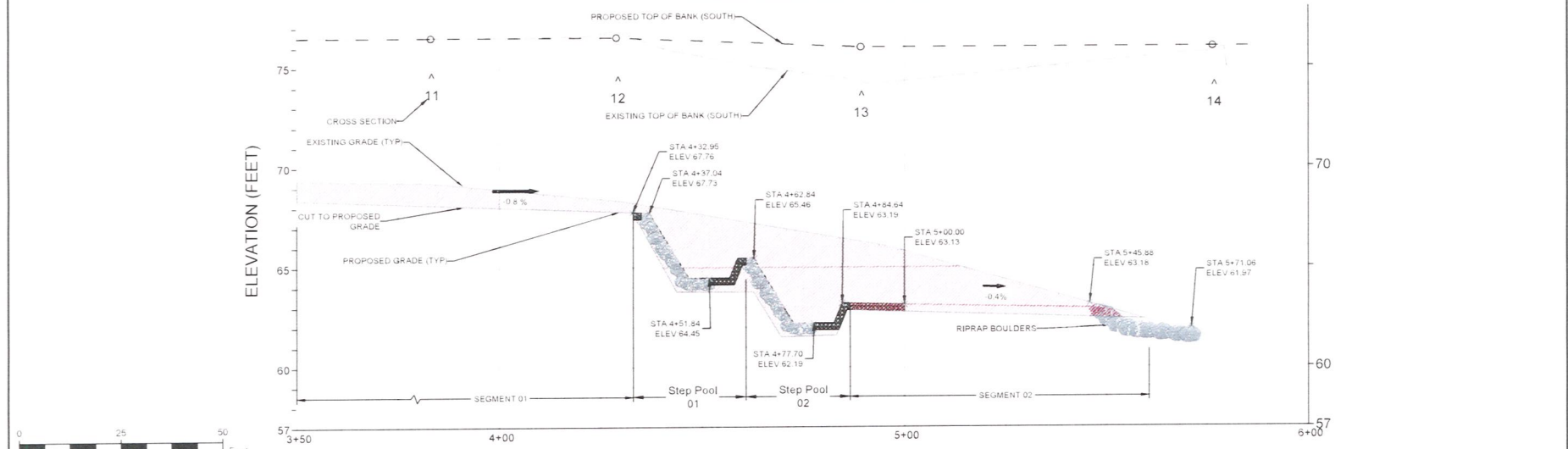
BY:
PIETER M. LOMBARD, P.E.
FL LIC No. 66596
ENGINEER OF RECORD

PLAN AND PROFILE

| | | |
|-------------------------|--------------------|-------------------|
| PROJECT NO. 2019-137 | SHEET 11 | OF 25 |
| DRAWN BY MR | DATE 07/31/2020 | SCALE 1" = 20' |



Hidden Oaks Center Line



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Erosion and Sedimentation Control Plan
for Ditch
at Hidden Oaks Condominium Association, Inc.

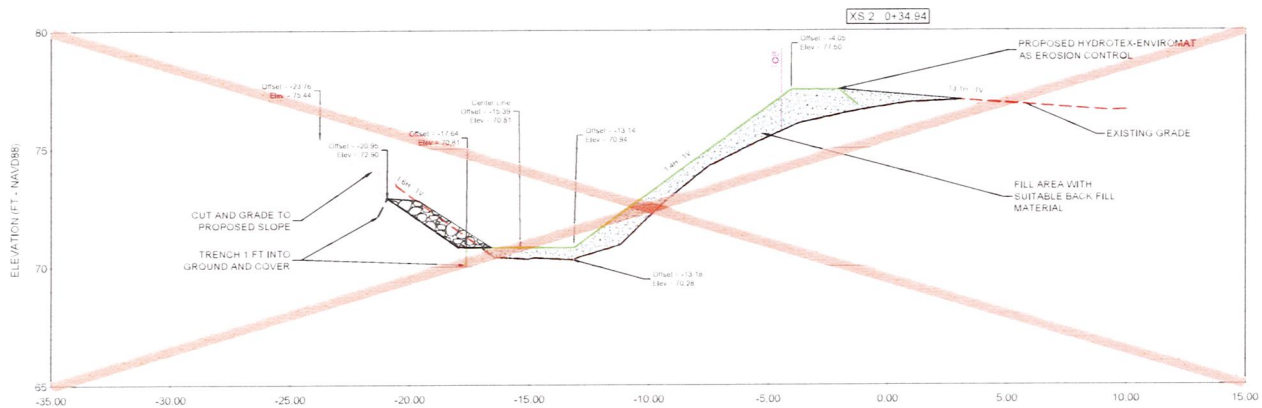
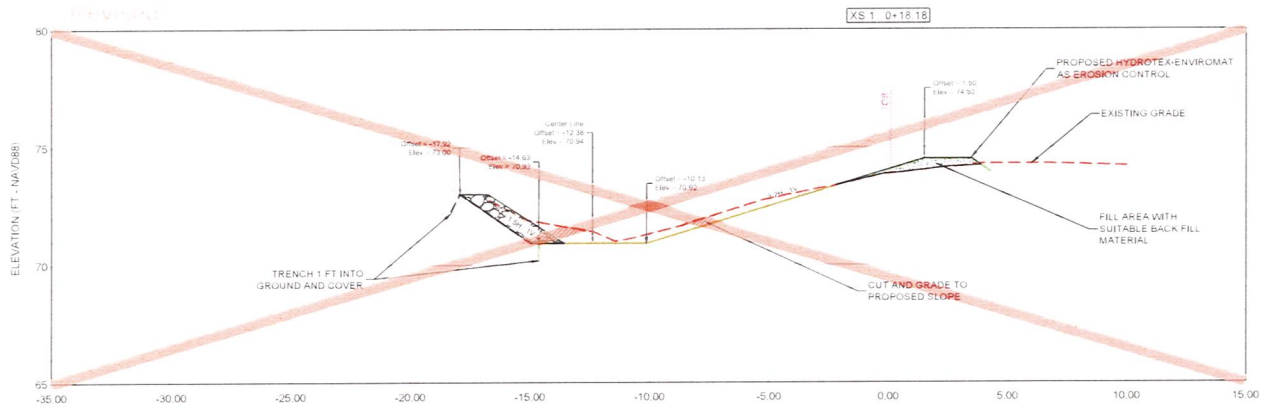
Lundshors Enterprises, LLC
Environmental Engineering, Analysis,
Control & Construction Management
4760 Erosion Restoration, LLC
Total Stormwater Protection SPC040320

6010 N. Riverbend Road, Ste. 4302
Fort Lauderdale, FL 33309
Office: 954.321.9550
Fax: 954.333.1556
E-mail: info@lundshors.com

BY:
PIETER M. LOMBARD, P.E.
FL LIC No. 66596
ENGINEER OF RECORD

PLAN AND PROFILE

| PROJECT NO. | SHEET | OF |
|-------------|------------|----------|
| 2019-137 | 12 | 25 |
| DRAWN BY | DATE | SCALE |
| MR | 07/31/2020 | 1" = 25' |



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| DATE | BY | DESCRIPTION |
| 7/12/2021 | MR | cross out of sections to larger needed |
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Erosion and Sedimentation Control Plan
for Ditch
at Hidden Oaks Condominium Association, Inc.



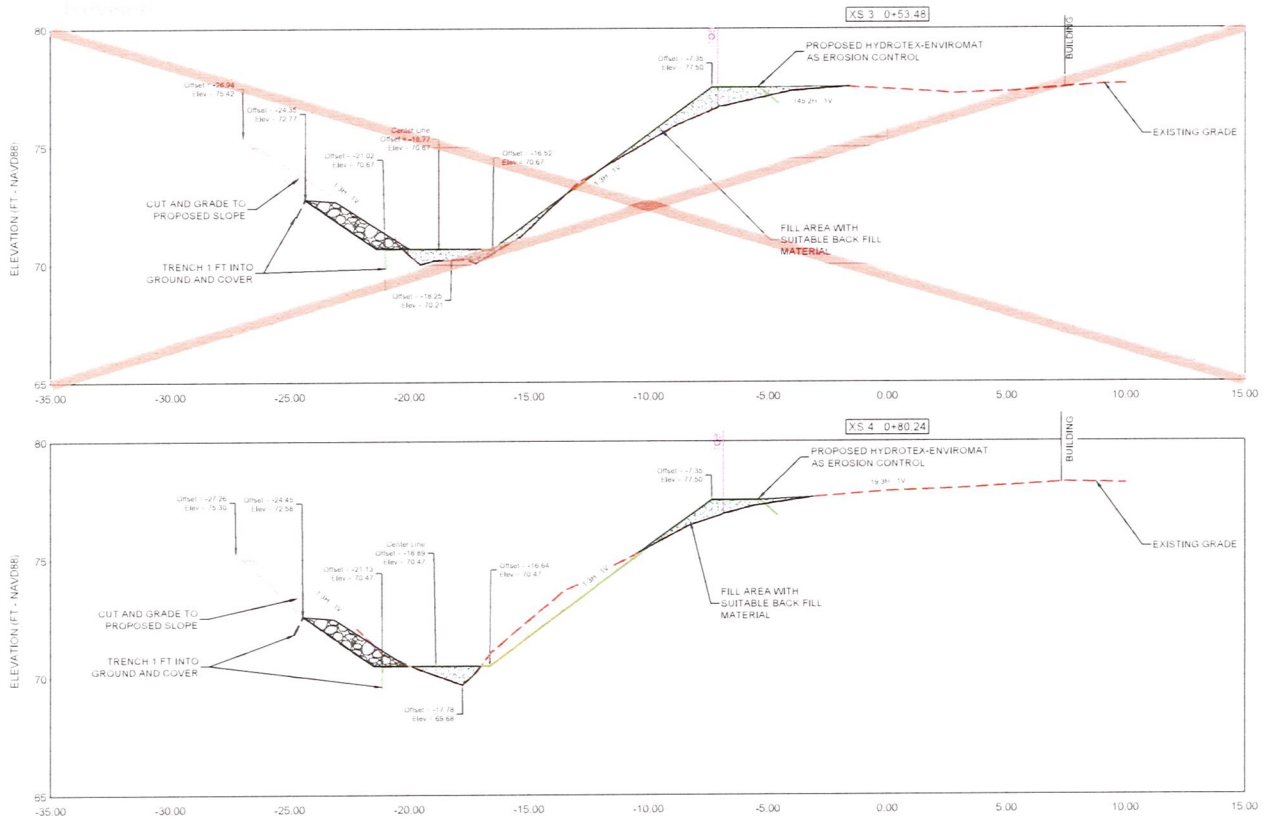
Landshore Enterprises, LLC
Environmental Engineering, Erosion
Control & Construction Inspection
4/6/4 Erosion Restoration, LLC
"Your Shoreline Protection Specialists"

6225 N. Powerline Road, Ste. 8302
Fort Lauderdale, FL 33309
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Fax: 954.533.1556
Email: info@landshore.com

BY
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FL LIC. No. 66596
ENGINEER OF RECORD

CROSS SECTIONS

| PROJECT NO. | SHEET | OF |
|-------------|------------|---------|
| 2019-137 | 13 | 25 |
| DRAWN BY | DATE | SCALE |
| MR | 07/31/2020 | 1" = 5' |



| REVISIONS | | |
|-----------|----|--|
| DATE | BY | DESCRIPTION |
| 7/12/2021 | MR | Check out of sections to begin needed. |
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Erosion and Sedimentation Control Plan
for Ditch
at Hidden Oaks Condominium Association, Inc.



Landshore Enterprises, LLC
Environmental Engineering, Erosion
Control & Construction Management
400/E Erosion Restoration, LLC
"Your Shoreline Protection Specialists"

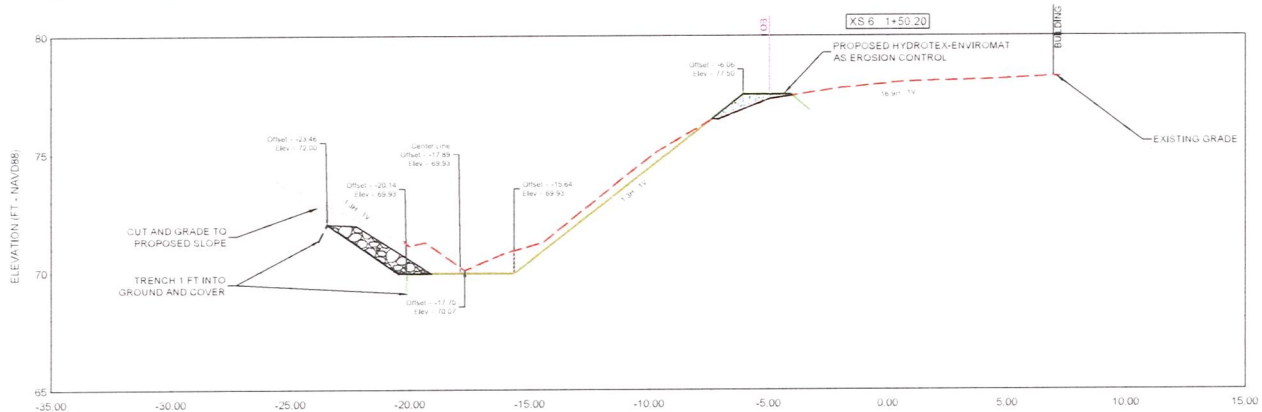
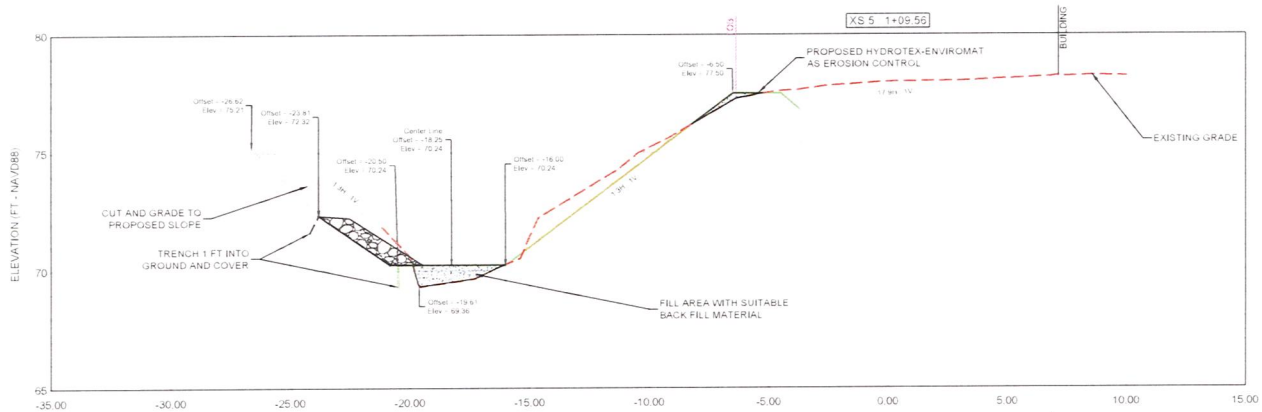
4000 N. Powerline Road, Ste. 4000
Fort Lauderdale, FL 33309
Office: 954-322-9300
Fax: 954-333-1556
E-mail: info@landshore.com

BY
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ENGINEER OF RECORD

CROSS SECTIONS

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| PROJECT NO. | SHEET | OF |
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| 2019-137 | 14 | 25 |
| DRAWN BY | DATE | SCALE |
| MR | 07/31/2020 | 1" = 5' |



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Erosion and Sedimentation Control Plan
for Ditch
at Hidden Oaks Condominium Association, Inc.



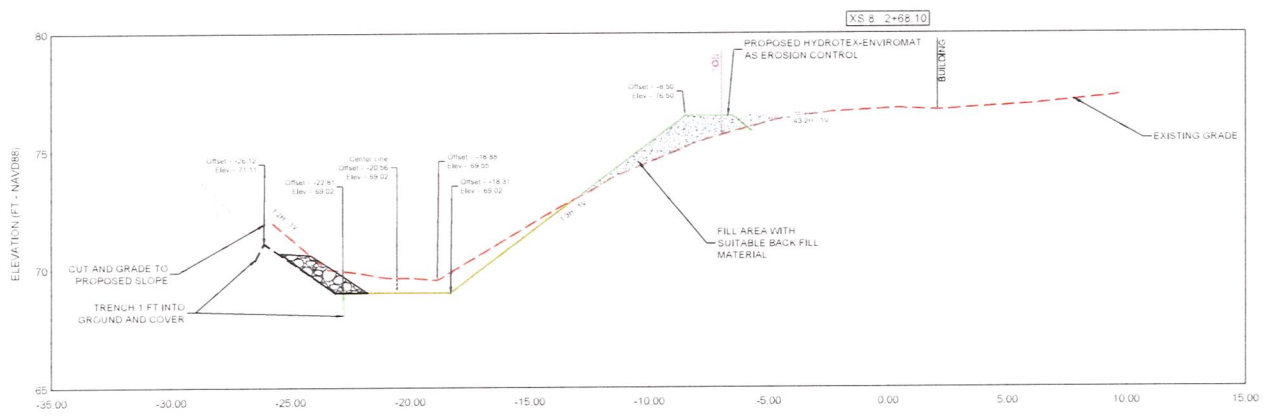
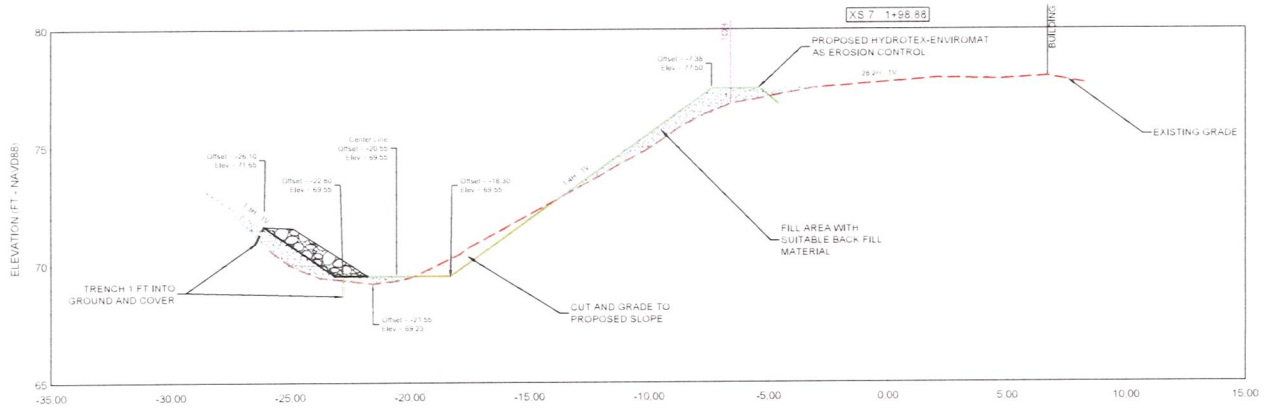
Landshore Enterprises, LLC
Environmental Engineering, Erosion
Control, & Construction Management
4202 E. Colonial Highway, LLC
"Your Shoreline Protection Specialists"

6322 N. Fowlerline Road, Ste. 4302
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BY
PIETER M. LOMBARD, P.E.
FL LIC No. 66596
ENGINEER OF RECORD

CROSS SECTIONS

| PROJECT NO. | SHEET | OF |
|-------------|------------|---------|
| 2019-137 | 15 | 25 |
| DRAWN BY | DATE | SCALE |
| MR | 07/31/2020 | 1" = 5' |



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Erosion and Sedimentation Control Plan
for Ditch
at Hidden Oaks Condominium Association, Inc.

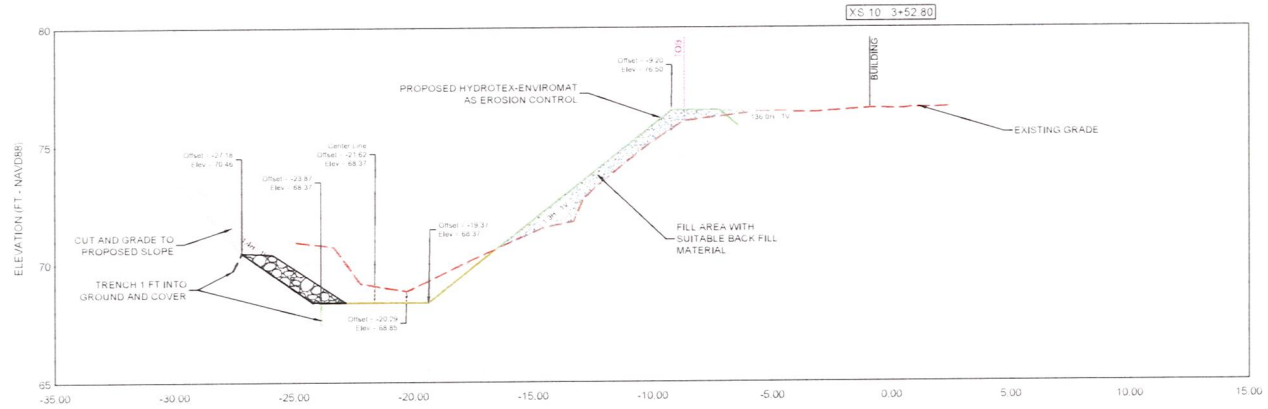
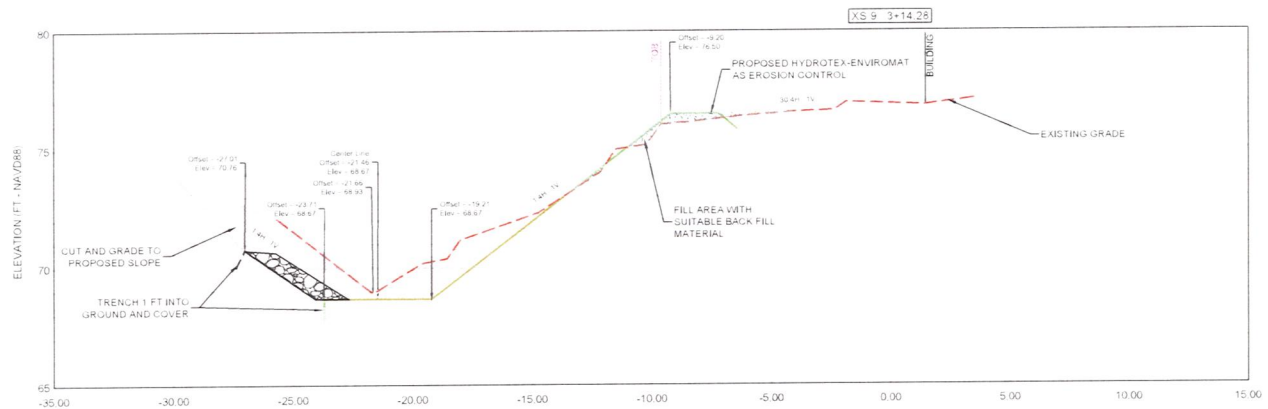


Landshore Enterprises, LLC
Environmental Engineering, Erosion
Control & Construction Management
4206 Erosion Restoration, LLC
Your Shoreline Protection Specialists

BY
PIETER M. LOMBARD, P.E.
FL LIC No 66596
ENGINEER OF RECORD

CROSS SECTIONS

| PROJECT NO | SHEET | OF |
|------------|------------|---------|
| 2019-137 | 16 | 25 |
| DRAWN BY | DATE | SCALE |
| MR | 07/31/2020 | 1" = 5' |



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| DATE | BY | DESCRIPTION |
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Erosion and Sedimentation Control Plan
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at Hidden Oaks Condominium Association, Inc.

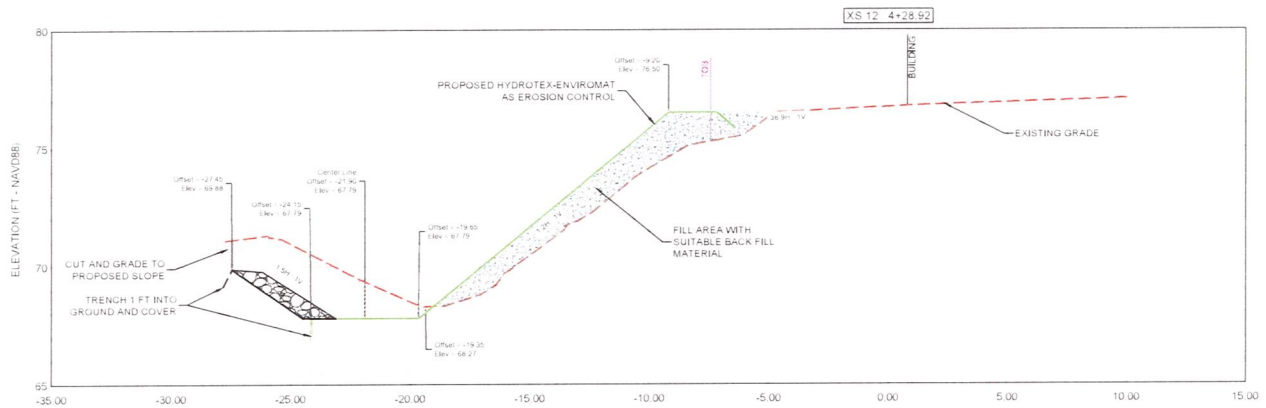
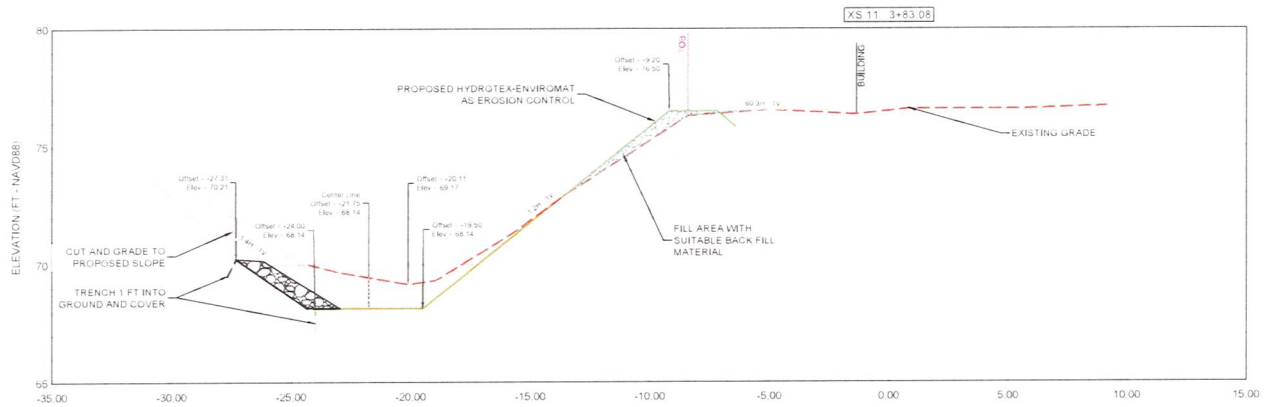


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Environmental Engineering, Erosion
Control & Construction Management
2700 E. Ocean Biscayne Blvd. #100
Miami, Florida 33133
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Fax: (305) 555-1112
Email: info@landshore.com

BY: **PIETER M. LOMBARD, P.E.**
FL LIC. No. 66596
ENGINEER OF RECORD

CROSS SECTIONS

| | | |
|-------------------------|--------------------|------------------|
| PROJECT NO. 2019-137 | SHEET 17 | OF 25 |
| DRAWN BY MR | DATE 07/31/2020 | SCALE 1" = 5' |



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| DATE | BY | DESCRIPTION |
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Erosion and Sedimentation Control Plan
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at Hidden Oaks Condominium Association, Inc.



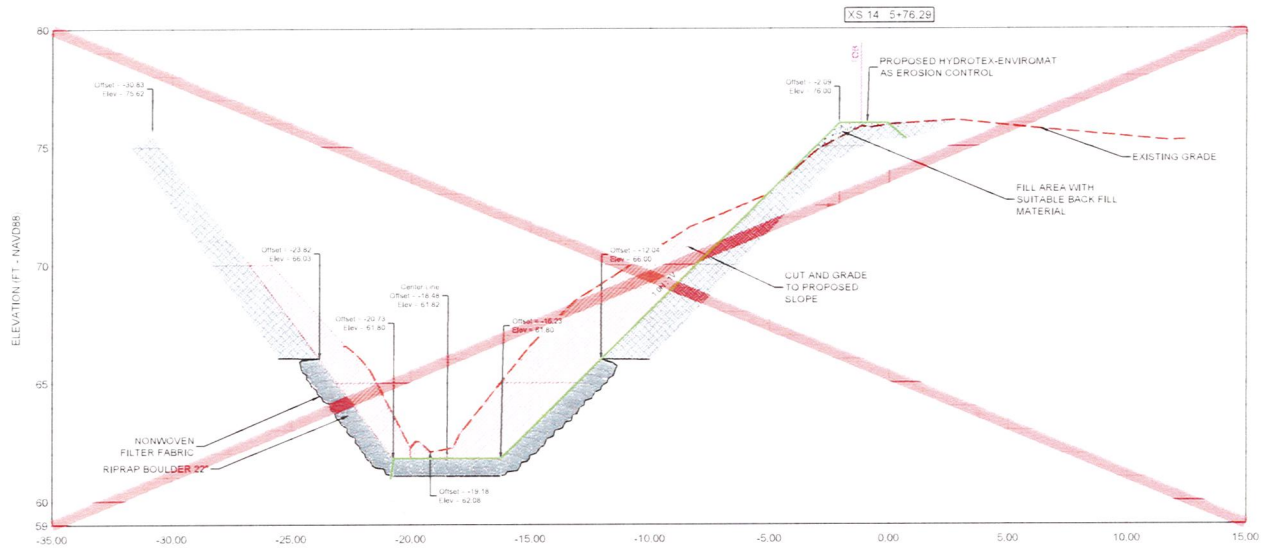
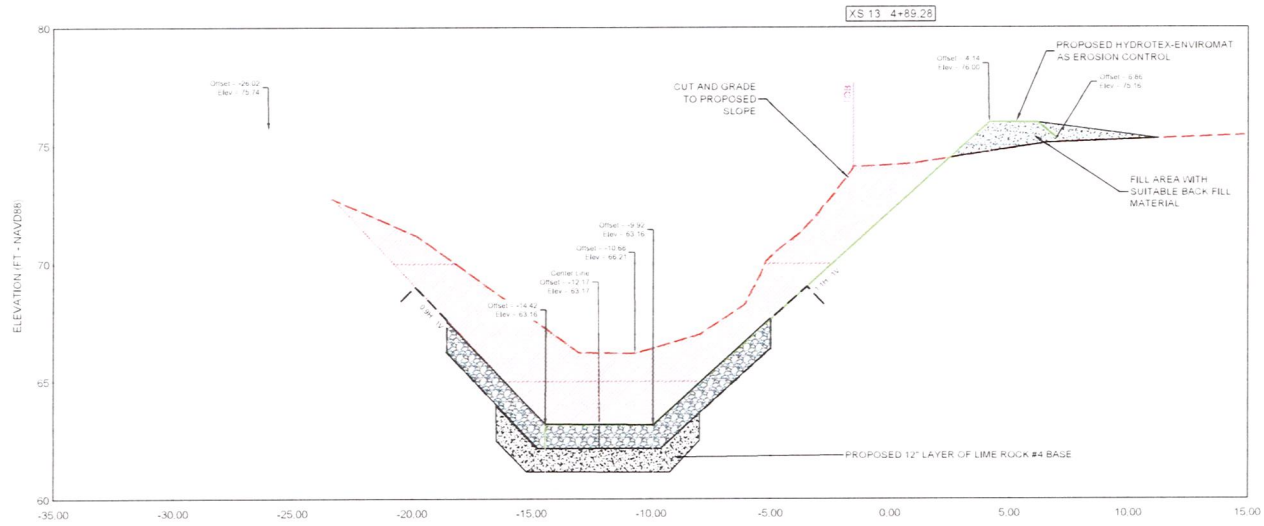
Landshore Enterprises, LLC
Environmental Engineering, Survey
Landfill & Construction Management
d/b/a Erosion Restoration, LLC
Your Shoring Protection Specialist

9355 N. Fowler Ave., Ste. 3007
Ft. Lauderdale, FL 33307
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Fax: 954-533-1556
Email: info@landshore.com

BY
PIETER M. LOMBARD, P.E.
FL LIC No. 66596
ENGINEER OF RECORD

CROSS SECTIONS

| | | |
|-------------------------|--------------------|------------------|
| PROJECT NO. 2019-137 | SHEET 16 | OF 25 |
| DRAWN BY MR | DATE 07/31/2020 | SCALE 1" = 5' |



| REVISIONS | | |
|-----------|----|--|
| DATE | BY | DESCRIPTION |
| 7/12/2021 | MR | Cross out of sections no longer needed |

Erosion and Sedimentation Control Plan
for Ditch
at Hidden Oaks Condominium Association, Inc.

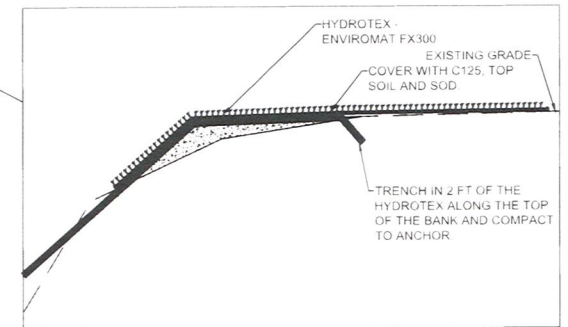
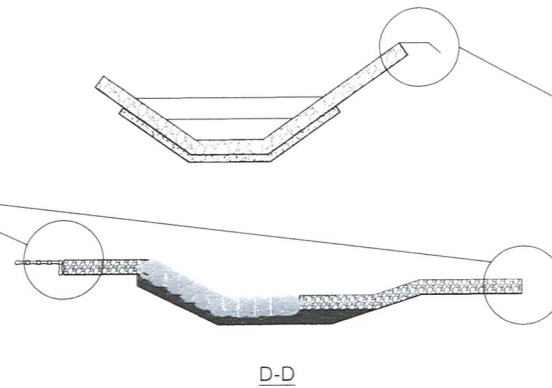
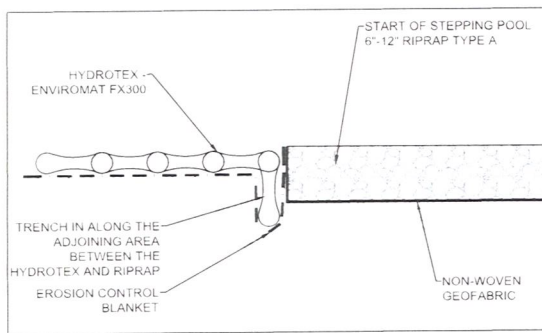
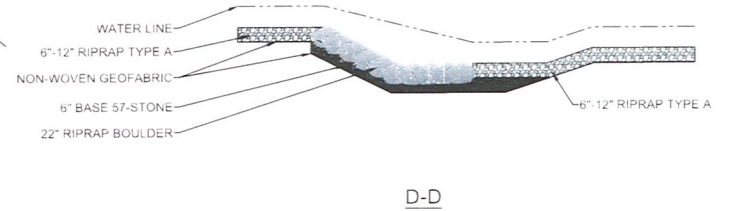
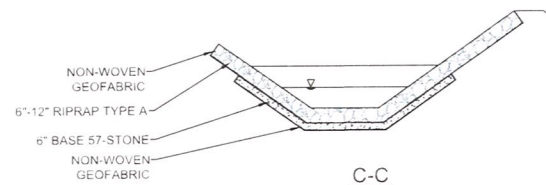
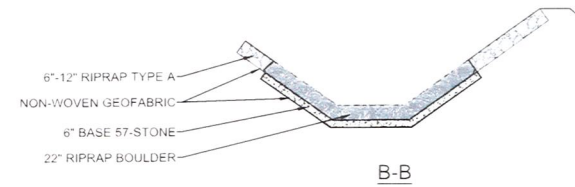
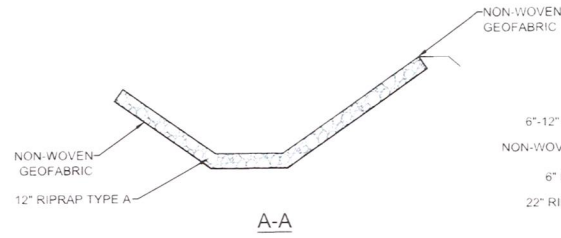
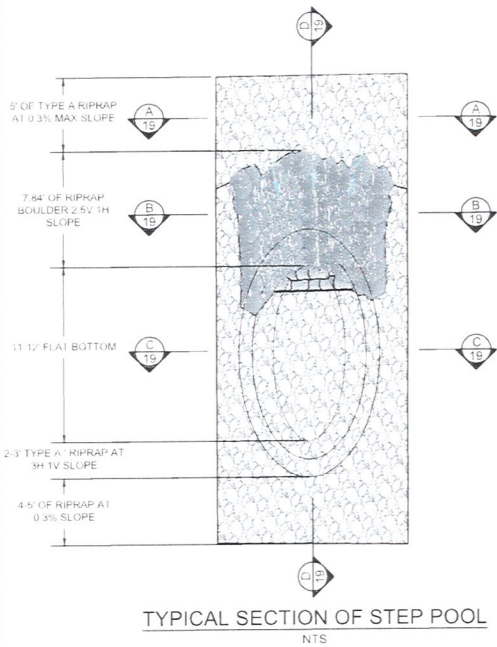


Landshore Enterprises, LLC
Environmental Engineering, Construction,
Construction Management
d/b/a Erosion Restoration, LLC
Your Sustainable Protection Specialists
9550 N. Fowlerline Road, Ste. 8300
Fort Lauderdale, FL 33429
Office: 954.327.3300
Fax: 954.533.1536
Email: er@landshore.com

BY
PIETER M LOMBARD, P.E.
FL LIC No 66596
ENGINEER OF RECORD

CROSS SECTIONS

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| PROJECT NO. | SHEET | OF |
| 2019-137 | 1b | 25 |
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| MR | 07/31/2020 | 1" = 5' |



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Erosion and Sedimentation Control Plan
for Ditch
at Hidden Oaks Condominium Association, Inc.



Landshore Enterprises, LLC
Environmental Engineering, Site
Construction Management
Erosion Restoration, LLC
"Your Shoreline Protection Specialist"

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DETAIL - STEP POOL

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| DRAWN BY MR | DATE 07/31/2020 | SCALE 1" = 8' |



5550 Triangle Parkway
Suite 220
Peachtree Corners, GA 30092 USA
www.synthetex.com



HYDROTEX® EnviroMat FX300

Hydrotex® EnviroMat FX300 (patent-pending) linings are filled with concrete with unwoven filtration/vegetation perimeters provide an erosion resistant, permeable concrete lining having a cobbled surface and a relatively high coefficient of hydraulic friction in order to reduce water velocity. EnviroMat FX300 Linings are comprised of concrete-filled elements and unfilled fabric areas that allow for either filling in place or lifting and placing as well as the establishment of vegetation. Once the concrete sets, the defined, unfilled fabric areas (nominally 35% of the total area of the lining) are used to establish vegetation as well as facilitate articulation, lifting and placing. The unwoven fabric areas allow for planting establishment or are filled with topsoil and seeded. A vegetated cover should be designed for the lining, resulting in an erosion control system with the hydraulic, ecological and aesthetic features desired. The EnviroMat FX300 linings can be used in conjunction with a turf reinforcement mat (TRM) or erosion control blanket (ECM) based on local soil, hydraulic and vegetative growth conditions.

The fabric forms for casting the concrete lining(s) are HYDROTEX® EnviroMat FX300 fabric forms manufactured by Synthetex, LLC, 5550 Triangle Parkway, Suite 220 Peachtree Corners, Georgia 30092. Tel: 800.253.0561 or 770.399.5051, E-Mail: info@synthetex.com. Hydrotex EnviroMat FX300 linings have a finished average thickness of 3 inch, a nominal mass per unit area of 33 lb/ft², and a deeply cobbled surface appearance. In addition, EnviroMat FX300 has been tested in a hydraulic flume per ASTM 6460.

The fabric forms are composed of polyester and/or nylon yarns into woven fabric meeting the performance criteria in the following table. The fabric forms are woven with a minimum of 50% textured yarns (by weight). Partially-oriented (POY), draw-textured, and/or staple yarns are not used in the manufacture of the fabric. Each layer of fabric conforms to the physical, mechanical and hydraulic requirements Mean Average Roll Values listed in Table 1.0. The fabric forms are free of defects or flaws which significantly affect their physical, mechanical, or hydraulic properties.

Synthetex can provide certificates of compliance for the fabric forms as well as specifications, literature, shop drawings for the layout of the EnviroMat FX100 lining panels, and recommendations that are specifically related to the project, if requested.



Table 1.0 PROPERTY REQUIREMENTS – HYDROTEX WOVEN FABRIC 1, 2

| | Test Method | Units | MARV |
|---|--------------------|-------------------------|-----------|
| Physical Properties | | | |
| Mass Per Unit Area (double-layer) | ASTM D 5261 | oz/yd ² | 13 |
| Thickness (single-layer) | ASTM D 5199 | mils | 15 |
| Mill Width (Woven) | | inch | 84 |
| Mechanical Properties | | | |
| Wide-Width Strip Tensile Strength - MD TD | ASTM D 4595 | lbs/inch | 300 350 |
| Elongation at Break - MD TD - Max. | | % | 15 15 |
| Trapezoidal Tear Strength - MD TD | ASTM D 4533 | lbs | 150 175 |
| CBR Puncture Strength | ASTM D 6241 | lbs | 1250 |
| Mullen Burst Strength | ASTM D 3786 (Mod.) | psi | 500 |
| Hydraulic Properties | | | |
| Apparent Opening Size (AOS) | ASTM D 4751 | U.S. Standard Sieve | 30 - 40 |
| Flow Rate | ASTM D 4491 | gal/min/ft ² | 30 - 55 |

Notes

1. Conformance of fabric to specification property requirements are based on ASTM D 4759. Material testing reports are available and prepared by a certified geotextile laboratory attesting to the fabric form material's compliance with this Specification. Material laboratory testing shall have been performed within ninety (90) days of the submittal date.
2. All numerical values represent minimum average roll values (i.e., average of test results from any sample roll in a lot shall meet or exceed the minimum values). Lots are sampled according to ASTM D 4354.

Certification (Open Channel Flow)

The average thickness, mass per unit area and hydraulic resistance of each concrete lining shall withstand the hydraulic loadings for the design discharges along the structure(s). The stability analysis for each concrete lining are accomplished using a factor-of-safety methodology. A minimum factor of safety of 1.3 is required, or higher as determined by the Engineer-of-Record, local conditions, or critical structures. Synthetex can provide the calculations if needed to confirm conformance to the project conditions and requirements.

Erosion Control Blanket (ECB) or Turf Reinforcement Mat (TRM)

An underlying ECB or TRM, as specified elsewhere, can be selected and placed on the graded surface approved by the Engineer.

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| REVISIONS | | | | Erosion and Sedimentation Control Plan for Ditch at Hidden Oaks Condominium Association, Inc. | <p>Landshore Enterprises, LLC environmental engineering, erosion control & construction management a/k/a Erosion Restoration, LLC "Your Shoreline Protection Specialists"</p> | <p>6520 N. Fowler Ave., Ste. #302 Fort Lauderdale, FL 33309 Office: 954-537-1500 Fax: 954-533-1558 Email: info@landshore.com</p> | <p>BY PIETER M. LOMBARD, P.E. FL LIC. No. 66596 ENGINEER OF RECORD</p> | <p>MANUFACTURER'S SPECIFICATIONS</p> | PROJECT NO. | SHEET | OF |
|-----------|----|-----------|-------------|---|---|--|--|--|-------------|-------|-------|
| DATE | BY | REVISIONS | DESCRIPTION | | | | | | 2019-137 | 21 | 25 |
| | | | | | | | | | DRAWN BY | DATE | SCALE |
| | | | | MR | 07/31/2020 | N/A | | | | | |



Fine Aggregate Concrete

EnviroMat FX shall be filled with a suitable fine aggregate concrete for proper filling of the fabric forms. Typical concrete mix proportions and sample mix designs can be provided by Synthetex, as well as recommended installation means and methods. Average cured concrete compressive strength within the mat shall be 5,000 psi.

Hydrotex® products are trademarks of Synthetex, LLC. Registered Trademark. 2019 Synthetex, LLC. EnviroMat FX Patent Pending. The information contained herein is furnished without charge or obligation, and the recipient assumes all responsibility for its use. Because conditions of use and handling may vary and are beyond our control, we make no representation about, and are not responsible for, the accuracy or reliability of said information or the performance of any product. Any specifications, properties or applications listed are provided as information only and in no way modify, enlarge or create any warranty. Nothing contained herein is to be construed as permission or as a recommendation to infringe any patent.

Hydrotex® products are manufactured and sold by



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TENCATE GEOSYNTHETICS
 Americas



Mirafi® 160N is a nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi® 160N is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids. Mirafi® 160N meets AASHTO M288 Class 2 for Elongation > 50%.

TenCate Geosynthetics Americas Laboratories are accredited by Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GA-LAP). **NTPEP Listed**

| Mechanical Properties | Test Method | Unit | Minimum Average Roll Value | |
|----------------------------------|-------------|---|------------------------------------|-----------|
| | | | MD | CD |
| Grab Tensile Strength | ASTM D4632 | lbs (N) | 160 (712) | 160 (712) |
| Grab Tensile Elongation | ASTM D4632 | % | 50 | 50 |
| Trapezoid Tear Strength | ASTM D4533 | lbs (N) | 60 (267) | 60 (267) |
| CBR Puncture Strength | ASTM D6241 | lbs (N) | 410 (1825) | |
| Apparent Opening Size (AOS) | ASTM D4751 | U.S. Sieve (mm) | Maximum Opening Size 70 (0.212) | |
| Permittivity | ASTM D4491 | sec-1 | Minimum Roll Value 1.5 | |
| Flow Rate | ASTM D4491 | gal/min/ft ² (l/min/m ²) | 110 (4481) | |
| UV Resistance (at 500 hours) | ASTM D4355 | % strength retained | Minimum Test Value 70 | |
| Physical Properties | | Unit | Roll Size | |
| Roll Dimensions (width x length) | | ft (m) | 15 x 300 (4.5 x 91) | |
| Roll Area | | yd ² (m ²) | 500 (418) | |

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GA-LAP 25-97

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Erosion and Sedimentation Control Plan
 for Ditch
 at Hidden Oaks Condominium Association, Inc.



Landshore Enterprises, LLC
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 Control & Construction Management
 400 Erosion Restoration, LLC
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 Email: info@landshore.com

BY
 PIETER M. LOMBARD, P.E.
 FL LIC. No. 66596
 ENGINEER OF RECORD

**MANUFACTURER'S
 SPECIFICATIONS**

| PROJECT No | SHEET | OF |
|------------|------------|-------|
| 2019-137 | 22 | 25 |
| DRAWN BY | DATE | SCALE |
| MR | 07/31/2020 | N/A |



Material and Performance Specification Sheet

North American Green
14649 Highway 41 North
Evansville, IN 47725
800-772-2040
FAX 812-867-0247
www.nadgreer.com

C125 Erosion Control Blanket

The long-term double net erosion control blanket shall be a machine-produced mat of 100% coconut fiber with a functional longevity of up to 36 months. (NOTE: functional longevity may vary depending upon climatic conditions, soil, geographical location, and elevation). The blanket shall be of consistent thickness with the coconut evenly distributed over the entire area of the mat. The blanket shall be covered on the top and bottom sides with a heavyweight polypropylene netting having ultraviolet additives to delay breakdown and an approximate 0.63 x 0.63 (1.59 x 1.59 cm) mesh. The blanket shall be sewn together on 1.50 inch (3.81 cm) centers with degradable thread.

The C125 shall meet requirements established by the Erosion Control Technology Council (ECTC) Specification and the US Department of Transportation, Federal Highway Administration's (FHWA) Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects, FP-03 Section 713.17 as a type 4 Long-term Erosion Control Blanket.

The C125 is also available with the DOT System™, which consists of installation staple patterns clearly marked on the erosion control blanket with environmentally safe paint. The blanket shall be manufactured with a colored thread stitched along both outer edges (approximately 2-5 inches [5-12.5 cm] from the edge) as an overlap guide for adjacent mats.

| Material Content | | |
|------------------|--|-----------------------------------|
| Matrix | 100% Coconut Fiber | 0.5 lbs/yd2 (0.27 kg/m2) |
| Nettings | Both sides – Heavyweight UV stabilized | 3.0 lb/1000 ft2 (1.47 kg/100 m2) |
| Thread | 100% Black Polypropylene | |

C125 is available in the following standard roll sizes

| | | |
|--------------|--------------------|---------------------|
| Width | 6.67 ft (2.03 m) | 16 ft (4.87 m) |
| Length | 108 ft (32.92 m) | 108 ft (32.92 m) |
| Weight ± 10% | 44 lbs (19.95 kg) | 105.6 lbs (47.9 kg) |
| Area | 80.0 yd2 (66.9 m2) | 192 yd2 (165.5 m2) |

Index Value Properties

| Property | Test Method | Typical |
|-----------------------|-----------------|--------------------------|
| Thickness | ASTM D6525 | 0.31 in (7.87 mm) |
| Resiliency | ECTC Guidelines | 82% |
| Water Absorbency | ASTM D1117 | 220% |
| Mass/Unit Area | ASTM 6475 | 8.00 oz/yd2 (271 g/m2) |
| Swell | ECTC Guidelines | 13% |
| Smolder Resistance | ECTC Guidelines | Yes |
| Stiffness | ASTM D1388 | 0.75 oz-in |
| Light Penetration | ECTC Guidelines | 6.6% |
| Tensile Strength – MD | ASTM D6818 | 294 lbs/ft (4.36 kN/m) |
| Elongation – MD | ASTM D6818 | 21.3% |
| Tensile Strength – TD | ASTM D6818 | 205.2 lbs/ft (3.04 kN/m) |
| Elongation – TD | ASTM D6818 | 28.4% |

Bench Scale Testing* (NTPEP)

| Test Method | Parameters | Results |
|------------------|-------------------------------------|-----------------------------|
| ECTC Method 2 | 50 mm (2 in)/hr for 30 min | SLR** = 14.93 |
| Rainfall | 100mm (4 in)/hr for 30 min | SLR** = 14.97 |
| | 150 mm (6 in)/hr for 30 min | SLR** = 15.00 |
| ECTC Method 3 | Shear at 0.50 inch soil loss | 2.68 lbs/ft2 |
| Shear Resistance | | |
| ECTC Method 4 | Top Soil, Fescue, 21 day incubation | 477% improvement of biomass |
| Germination | | |

* Bench Scale tests should not be used for design purposes

** Soil Loss Ratio = Soil loss with Bare Soil/Soil Loss with RECP (soil loss is based on regression analysis)

Updated 3/09

Performance Design Values

| Maximum Permissible Shear Stress | |
|----------------------------------|-----------------------|
| Unvegetated Shear Stress | 2.25 lbs/ft2 (108 Pa) |
| Unvegetated Velocity | 10.00 ft/s (3.05 m/s) |

| Slope Design Data: C Factors | | | |
|------------------------------|-------|-----------|-------|
| Slope Gradients (S) | | | |
| Slope Length (L) | 3:1 | 3:1 – 2:1 | 2:1 |
| 20 ft (6 m) | 0.001 | 0.029 | 0.082 |
| 20-50 ft | 0.036 | 0.060 | 0.096 |
| 50 ft (15.2 m) | 0.070 | 0.090 | 0.110 |

| Roughness Coefficients- Unveg. | |
|--------------------------------|---------------|
| Flow Depth | Manning's n |
| 0.50 ft (0.15 m) | 0.022 |
| 0.50 – 2.0 ft | 0.022 – 0.014 |
| 2.0 ft (0.60 m) | 0.014 |

Product Participant of



EroNet™ C125® Erosion Control Blanket

PRODUCT DESCRIPTION

2.9 lb., UV-stable polypropylene top net,
70% straw/30% coconut fiber matrix, 1.5 lb.,
photodegradable polypropylene bottom net.

LONGEVITY

36 months

APPLICATIONS

High Flow Channels
1:1 and Greater Slopes

DESIGN PERMISSIBLE SHEAR STRESS

Unvegetated 2.25 lbs/ft2/ (108 Pa)

DESIGN PERMISSIBLE VELOCITY

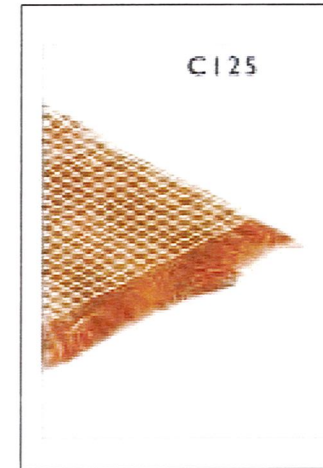
Unvegetated 10.0 lbs/s (3.05 m/s)

NETTINGS

Both sides - 3.0 lbs/1000 ft2/ (1.47 Kg/100 m2/)

THREAD

Permanent

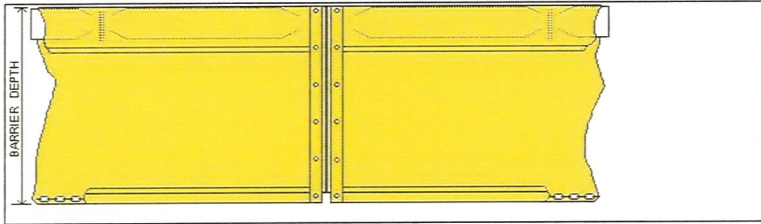


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| REVISIONS | | | Erosion and Sedimentation Control Plan for Ditch at Hidden Oaks Condominium Association, Inc. | Landshore Enterprises, LLC Environmental Engineering, Erosion Control & Construction Management 40% of Erosion Restoration, LLC "Your Shoreline Protection Specialists" | 5500 N. Fairwinds Road, Ste. #302 Fort Lauderdale, FL 33409 Office: 954-521-9500 Fax: 954-553-1556 Email: info@landshore.com | BY PIETER M. LOMBARD, P.E. FL LIC No. 66596 ENGINEER OF RECORD | MANUFACTURER'S SPECIFICATIONS | | |
|-----------|----|-------------|---|---|--|---|-------------------------------|--------------------|--------------|
| DATE | BY | DESCRIPTION | | | | | PROJECT NO. | SHEET | OF |
| | | | | | | | 2019-137 | 23 | 25 |
| | | | | | | | DRAWN BY MR | DATE 07/31/2020 | SCALE N/A |

WARNING BARRIER FENCE

#14993



Floating Turbidity Barrier
Type 1.DOT

Specifications

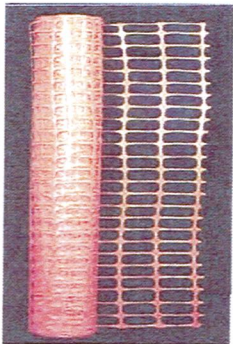
Fabric - 18 oz. nominal vinyl/polyester laminated having the following characteristics

- Construction - vinyl laminate on 9X9 1300 x 1300 denier scrim
- Weight - 18 oz. per sq. yd. (423 gr./sq. m.)
- Adhesion - 15 lb./in. (14daN/5 cm.)
- Grab Tensile - 397 x 373 lb./in. (378 x 363 daN/5cm.)
- Tongue Tear - 96 x 86 lb. (91 x 82 daN)
- Hydrostatic - 385 psi (2674 kPa)

- All seams heat sealed
- 5/8 inch diameter poly rope reinforced vertical edges
- #4 brass grommets
- 1/4 in. (6.35mm) galvanized chain ballast
- EPS flotation, 6 in. x 6 in., 15 lb./ft. (220N/m) buoyancy

8-3-04

| | |
|-----------------------------------|-------------------------------------|
| POLYMER: | Polyethylene (HPDE) |
| STABILIZER: | U.V. Stabilizer |
| COLOR: | Orange |
| MESH SIZE: | 4" (- 1") x 2" (+1 1/2") |
| POROSITY: | 60% |
| ROLL SIZE: | 4' X 50' or 4' X 100' |
| ROLL WEIGHT: | 4.5lbs 8.8 lbs |
| MD BREAK LOAD: | 500 lbs/ft |
| MD YIELD STR: | 600 lbs/ft |
| MD BREAK ELONGATION: | 35% |
| MD YIELD POINT ELONGATION: | 15% |



Roll weight may vary +/- 10%



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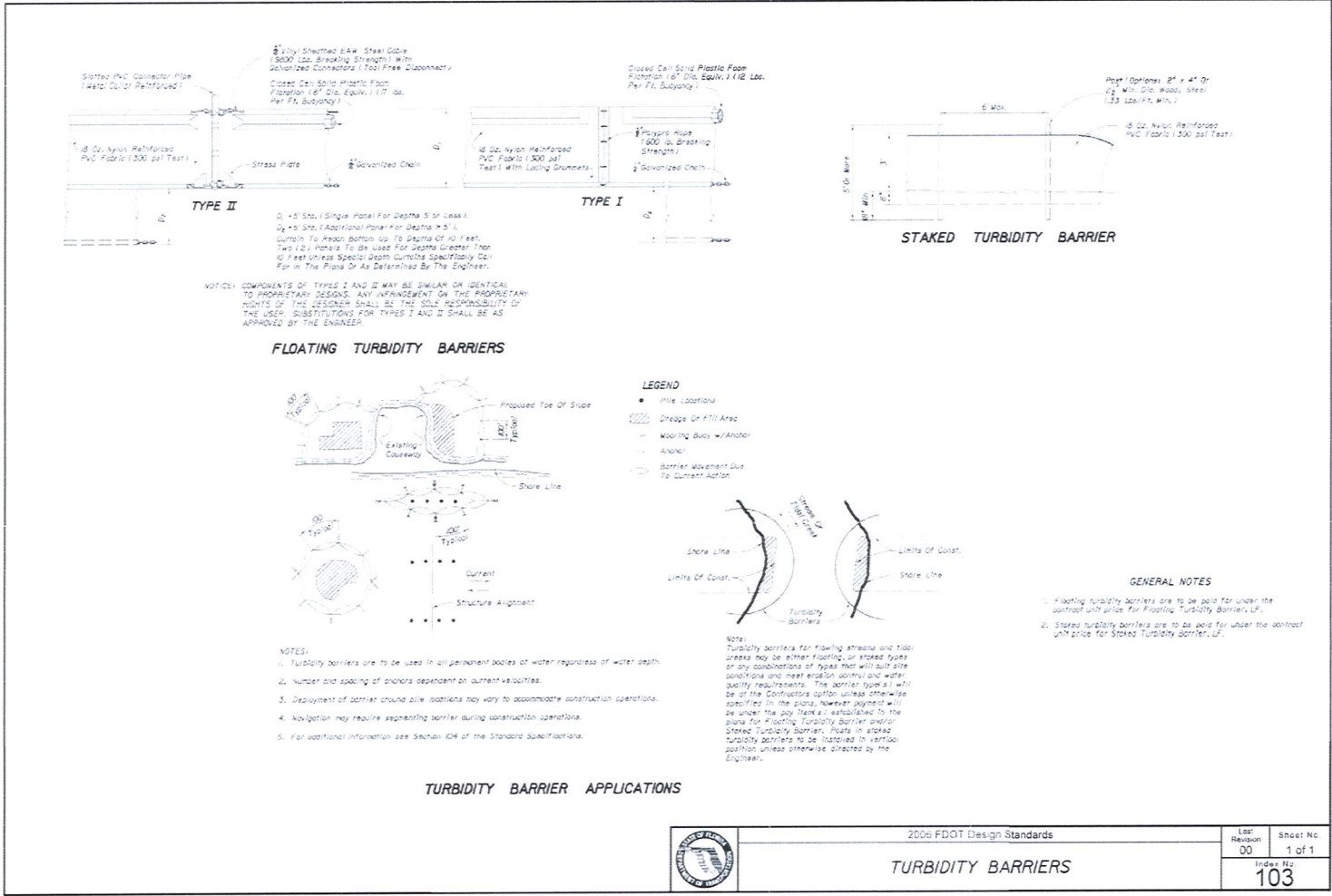


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MANUFACTURER'S
SPECIFICATIONS

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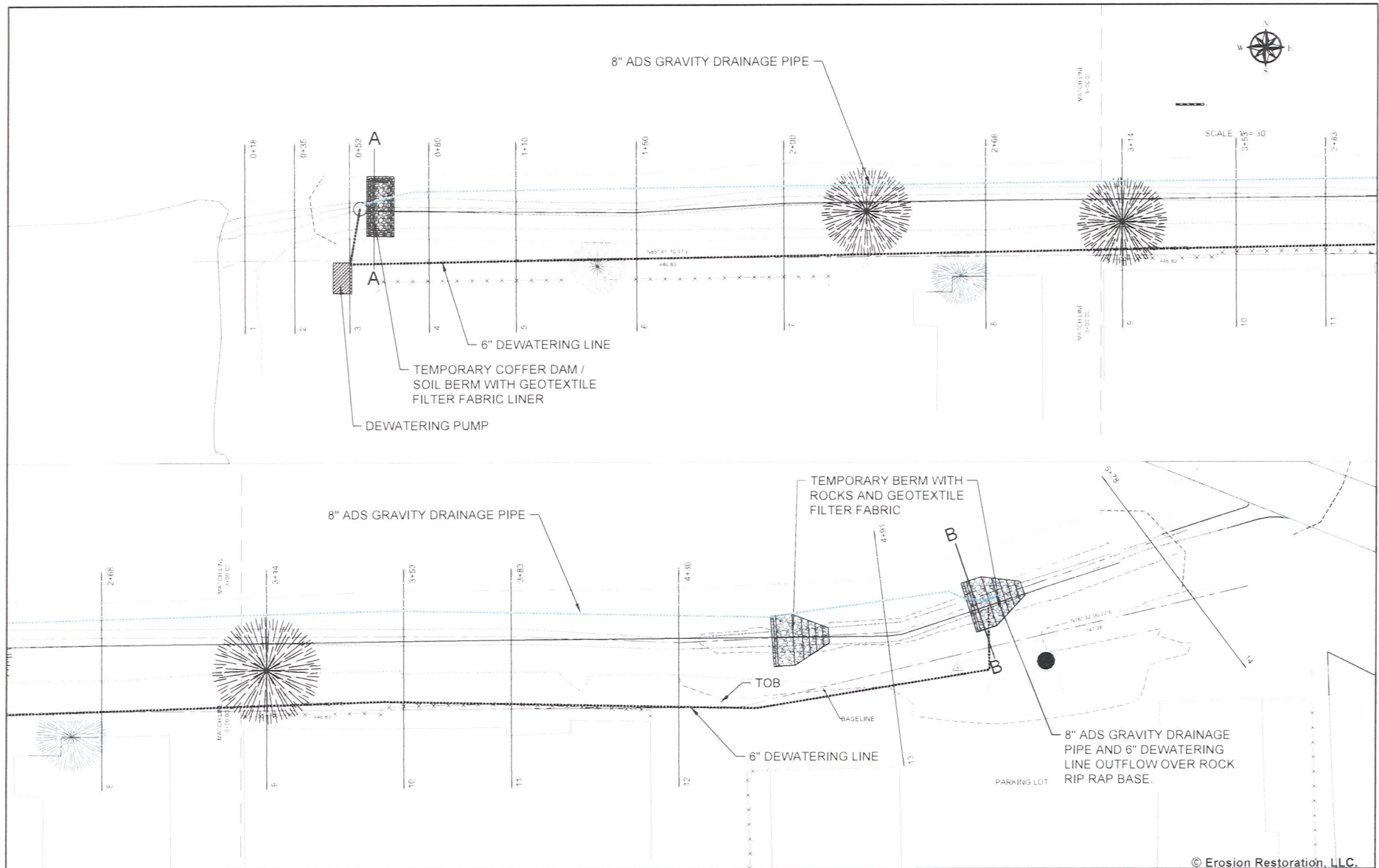


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MANUFACTURER'S SPECIFICATIONS

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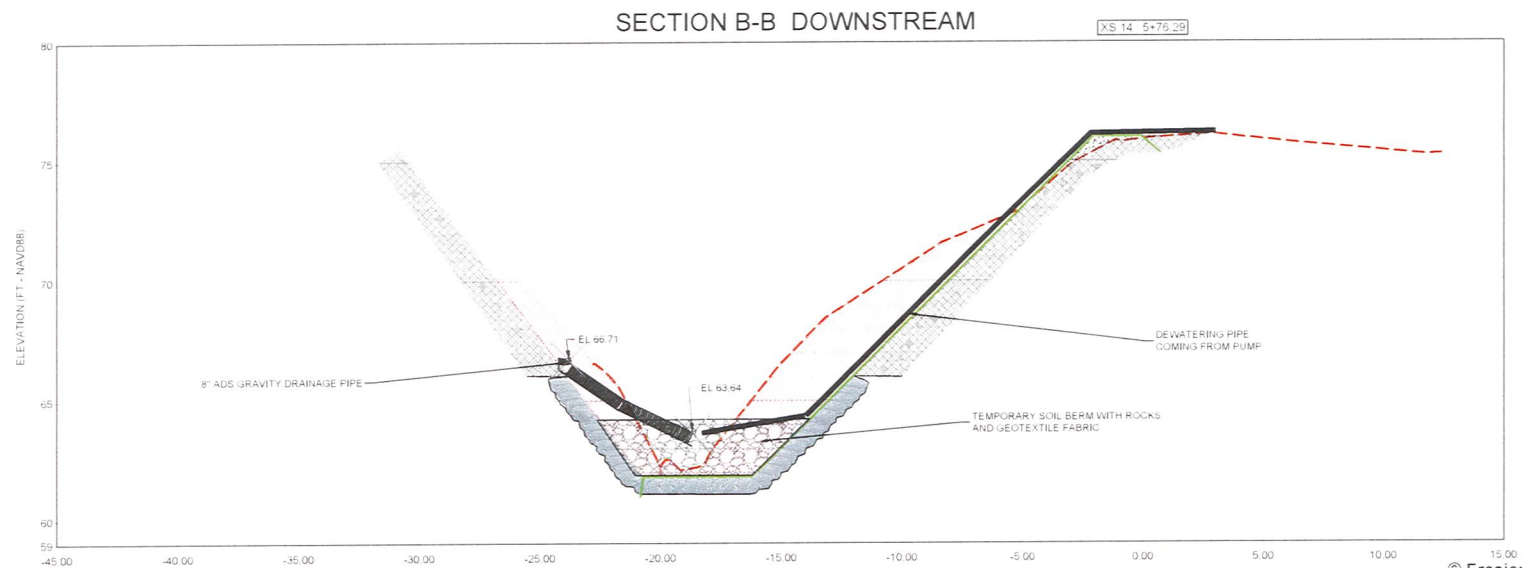
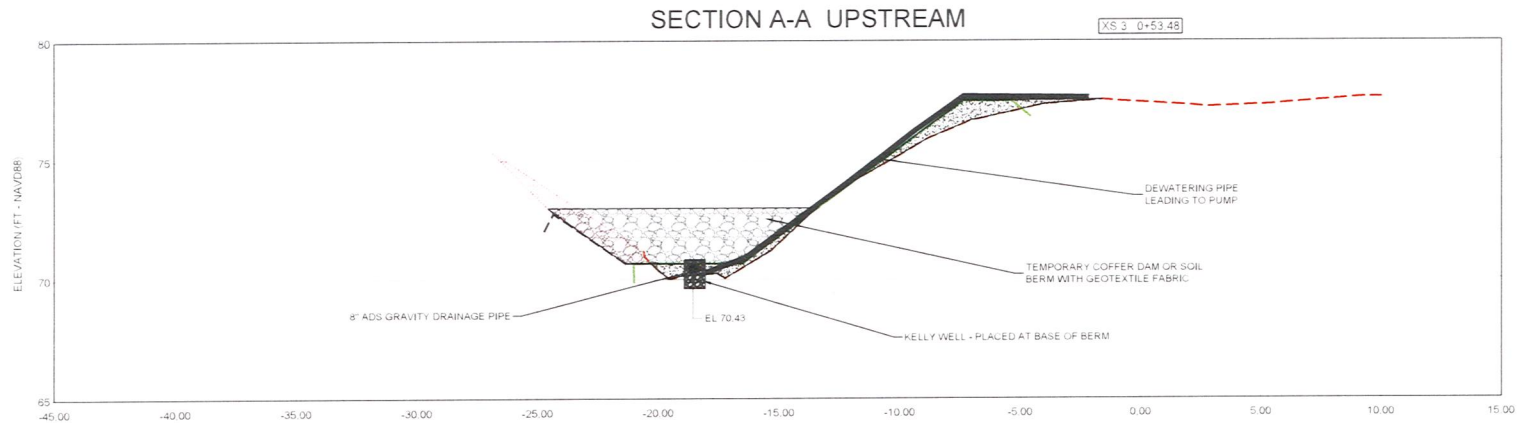
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BY
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DEWATERING PLAN

| | | | |
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| PROJECT NO. | | SHEET | |
| 2019-137 | | DP-1 | |
| DRAWN BY | | DATE | |
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| SCALE | | OF | |
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Erosion and Sedimentation Control Plan
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at Hidden Oaks Condominium Association, Inc.

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Erosion Restoration, LLC
Water Pollution Specialists

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DEWATERING PLAN

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| PROJECT NO. | SHEET | OF |
| 2019-137 | DP-2 | 2 |
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