SW RANCHES GREEN MEADOWS DRAINAGE

PREPARED FOR:

TOWN OF SOUTHWEST RANCHES

LOCATION:

SOUTHWEST RANCHES, FLORIDA

SECTION 36, TOWNSHIP 50S, RANGE 39E

PROJECT LOCATION

PROJECT TEAM

CIVIL ENGINEER
KIMLEY-HORN AND ASSOCIATES, INC.
STEFANO F. VIOLA, P.E.
8201 PETERS ROAD, SUITE 2200
PLANTATION, FL 33324
PHONE: (954) 535-5100
STEFANO.VIOLA@KIMLEY-HORN.COM

OWNER
TOWN OF SOUTHWEST RANCHES
13400 GRIFFIN ROAD
SOUTHWEST RANCHES, FL 33330
PHONE: (954) 434-0008
CONTACT: ROD LEY, P.E.

UTILITY PROVIDERS

WATER AND SEWER:
CITY OF SUNRISE WATER AND SEWER
CONTACT: JULIO GUERRA
14150 W 8TH STREET
SUNRISE, FL 33325
(954) 888-6069

FPL - BROWARD:
CONTACT: JOEL BRAY
10705 QUAIL ROOST DR.
MIAMI, FL 33157
(386) 586-6403

COMCAST:
CONTACT: RICHARD DAVIDSON
6565 NOVIA DR.
DAVIE, FL 33317
(786) 586-8505

AT&T:
CONTACT: DINO FARRUGGIO
600 NW 79 AVE., RM356
MIAMI, FL 33126
(561) 683-2729

COMMUNITY OFFICIALS

MAYOR	DOUGH MCKAY
VICE MAYOR	DENISE "DEE" SCHROEDER
COUNCILMEMBER	GARY JABLONSKI
COUNCILMEMBER	DELSA WINSLOW AMUNDSON
COUNCILMEMBER	BOB HARTMANN
ADMINISTRATOR	ANDREW "ANDY" BERNS
ATTORNEY	KEITH POLIAKOFF
CLERK	RUSSELL MUÑIZ
PUBLIC WORKS DIRECTOR	ROD LEY, P.E.

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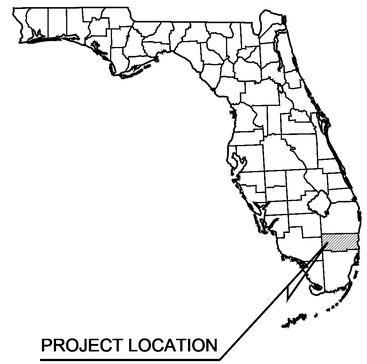

ALL ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON THE NAVD 88. TO CONVERT ELEVATIONS TO NGVD 29, ADD 1.56'

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

CALL 2 WORKING DAYS BEFORE YOU DIG
811
IT'S THE LAW! DIAL 811
Know what's below. Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

PROJECT
SW RANCHES GREEN MEADOWS DRAINAGE

PROJECT NUMBER
143221005

PROJECT LOCATION
SOUTHWEST RANCHES, FLORIDA

PREPARED FOR:

PREPARED BY:
Kimley»Horn

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8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
PHONE: 954-535-5100
WWW.KIMLEY-HORN.COM REGISTRY No. 35106

No.	REVISIONS	DATE	BY

DATE: 05/15/2024

BID PLANS

Plotted By:Bezlner, Eliana Sheet Set:SW Ranches Green Meadows Drainage Layout:C000.0 COVER SHEET May 17, 2024 08:59:01am K:\fll_civil\143 Jobs\143221005 sw ranches green meadows drainage\CAD\plansheets\C000.0 Cover Sheet.dwg
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GENERAL NOTES

I. APPLICABLE CODES

A. GENERAL
1. ALL WORK FOR THIS PROJECT SHALL BE COMPLETED WITHIN AND FROM EXISTING RIGHT OF WAY.
2. COUNTY IN THESE NOTES REFERS TO BROWARD COUNTY, TOWN IN THESE NOTES REFERS TO THE TOWN OF SOUTHWEST RANCHES, STATE IN THESE NOTES REFERS TO THE STATE OF FLORIDA.
3. THE FDOT INDICES REFERRED TO IN THE DRAWINGS AND NOTES REFERS TO FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND FDOT DESIGN STANDARDS LATEST EDITION.
4. ALL WORK AND MATERIALS SHALL CONFORM TO THE LATEST STANDARDS, CODES, REGULATIONS AND SPECIFICATIONS OF THE TOWN, COUNTY, STATE, AND FEDERAL CODES WHERE APPLICABLE.
5. THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH FEDERAL, STATE, AND COUNTY LAWS, CODES, ORDINANCES AND REGULATIONS.
6. IN THE EVENT OF A CONFLICT BETWEEN THE GENERAL NOTES AND CONSTRUCTION SPECIFICATIONS IN THESE PLANS AND THE CONTRACT DOCUMENTS AND SPECIFICATIONS IN THE SPECIFICATIONS BOOKLET THE CONTRACTOR SHALL SUBMIT WRITTEN REQUEST FOR CLARIFICATION TO THE ENGINEER.
7. ALL HANDICAP ACCESSIBLE ACCESS TO CONFORM WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT AND LOCAL, STATE, AND FEDERAL CODES, LATEST EDITIONS.
8. THE CONTRACTOR IS REQUIRED TO OBTAIN ALL APPLICABLE CONSTRUCTION PERMITS PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL APPLY FOR AND PROCURE ALL PERMITS AND LICENSES, PAY ALL APPLICABLE CHARGES, TAXES, ROYALTIES & FEES, AND GIVE ALL NOTICES NECESSARY TO COMPLETE THIS PROJECT.
9. RADII DIMENSIONS AND ELEVATIONS ARE TO BE EDGE OF PAVEMENT AND FINISH GRADE UNLESS NOTED OTHERWISE.
10. IF ABANDONED GAS, WATER, AND SEWER SERVICE LATERALS ARE ENCOUNTERED DURING EXCAVATION, THE SECTION IN THE EXCAVATED ENVELOPE WILL BE REMOVED AND THE STUB ON THE SIDE CONNECTED TO THE MAIN WILL BE CAPPED, PLUGGED OR OTHERWISE SEALED.
11. CONTRACTOR SHALL NOTIFY BROWARD COUNTY TRAFFIC ENGINEERING DIVISION 72 HOURS PRIOR TO WORK WITHIN COUNTY RIGHT-OF-WAY.
12. ITEMS IN CONFLICT WITH DESIGN SUCH AS EXISTING CURBS AND GUTTERS, SIDEWALKS, DRAINAGE STRUCTURES PAVEMENT AND BASE AND EXCESS EXCAVATIONS ARE TO BE REMOVED BY CONTRACTOR AND DISPOSED OF IN A LEGAL AND PROPER MANNER AWAY FROM THE JOB SITE AT THE CONTRACTOR'S EXPENSE UNLESS THE ITEMS ARE TO BE REUSED ON THE PROJECT.
13. EXCESS MATERIAL REMOVED BY THE CONTRACTOR WILL BE DISPOSED OF IN AREAS PROVIDED BY THE CONTRACTOR.
14. THE INFORMATION PROVIDED IN THESE PLANS IS TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF THE WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT ANY INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED AND UPON WHICH THEIR BIDS WILL BE BASED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INVESTIGATE SITE CONDITIONS OF THE PROJECT AND FULLY SATISFY THEMSELVES OF BOTH THE SURFACE AND SUBSURFACE CONDITIONS AND BASE THEIR PRICING ACCORDINGLY.
15. CONTRACTOR SHALL PRESERVE ALL STREET SIGNS, BENCHES, TRAFFIC CONTROL SIGNS, LANDSCAPING, ETC. WHEN DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL REINSTALL OR DELIVER SAID PUBLIC PROPERTY TO THE COUNTY.
16. THE CONTRACTOR SHALL TAKE SPECIAL NOTE OF ANY SPECIAL EQUIPMENT SHORING, SHEETING OR OTHER PROCEDURES NECESSARY TO PROTECT ADJACENT PROPERTY, EITHER PUBLIC OR PRIVATE, DURING EXCAVATION OF SUBSOIL MATERIAL OR DURING THE FILLING OF ANY AREA, OR FOR ANY AREA, OR FOR ANY OPERATION DURING CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
17. APPARENT ERRORS, DISCREPANCIES, OR OMISSIONS ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD IMMEDIATELY.
18. THE AMOUNT OF EACH OF THE MATERIALS PROVIDED IS THE ESTIMATED AMOUNT REQUIRED TO COMPLETE THE JOB. THESE QUANTITIES ARE ESTIMATED ONLY AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLETE THE JOB IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. SHOULD ADDITIONAL MATERIALS BE REQUIRED THEY WILL BE PAID FOR AT THE CONTRACT UNIT PRICES AS DESCRIBED IN THE BID DOCUMENTS.
19. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES THAT REMAIN IN PLACE.
20. ALL ROAD CROSSINGS ARE OPEN CUT UNLESS OTHERWISE NOTED ON THE DRAWINGS.
21. THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZING EARTH, DRIVEWAYS, SIDEWALKS, ETC. WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION OF AS DIRECTED BY THE ENGINEER.
22. THE CONTRACTOR SHALL NOT ENCROACH INTO PRIVATE PROPERTY WITH PERSONNEL, MATERIAL OR EQUIPMENT WITHOUT OBTAINING WRITTEN PERMISSION FROM THE OWNER.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE, REMOVAL OR MODIFICATION ACCIDENTALLY OR PURPOSELY, CAUSED TO ANY IRRIGATION SYSTEMS, PRIVATE OR PUBLIC WITHIN THE PROJECT LIMITS. THE COSTS TO REPLACE, REMOVE OR MODIFY IRRIGATION PIPES, SPRINKLER HEADS OR OTHER PERTINENT APURTENANCES SHALL BE CONSIDERED INCIDENTAL TO AND SHALL BE INCLUDED IN THE OTHER ITEMS OF RELATED WORK. ALL COSTS DUE TO DAMAGE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF AND MAKING THE REPAIRS OF EXISTING PAVEMENT, PIPES, CONDUITS, CURBS, CABLES, TREES, SOD, LANDSCAPE ITEMS, ETC. WHETHER OR NOT SHOWN ON THE PLANS DAMAGED AS A RESULT OF THE CONTRACTORS OPERATIONS AND/OR THOSE OF THEIR SUBCONTRACTORS. CONTRACTOR SHALL REPORT ANY DAMAGE TO SIDEWALK, DRIVEWAY, ETC., PRIOR TO BEGINNINGWORK IN ANY AREA.
25. CONTRACTOR IS RESPONSIBLE TO REMOVE AND REINSTALL ALL BRICK OR PAVER DRIVEWAYS IMPACTED BY CONSTRUCTION, REPAIR OR REPLACE ALL ASPHALT, CONCRETE, OR STAMPED CONCRETE DRIVEWAYS IMPACTED BY CONSTRUCTION. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED AS PART OF THE OVERALL BID.
26. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED BY THE ENGINEER, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS/HER WORK, EQUIPMENT, EMPLOYEES OR THOSE OF HIS SUBCONTRACTORS TO A CONDITION AT LEAST EQUAL (DETERMINED BY THE ENGINEER OF RECORD) TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS.
27. CONTRACTOR SHALL ADJUST ALL EXISTING SURFACE FEATURES SUCH AS EXISTING FRAMES, GRATES, MANHOLE COVERS, UTILITY VALVE BOXES, MONITORING WELLS, ECT. TO MATCH PROPOSED GRADES. CONTRACTOR TO SUPPLY AND INSTALL COMPOSITE MANHOLE AND VALVE RISERS.
28. ALL INSTALLATIONS WITHIN BROWARD COUNTY JURISDICTION RIGHTS OF WAY SHALL BE IN CONFORMITY WITH THE BROWARD COUNTY HIGHWAY CONSTRUCTION & ENGINEERING DIVISION "MINIMUM STANDARDS."
29. THE TOWN OF SOUTHWEST RANCHES SHALL RECEIVE A COPY OF ALL REQUIRED DENSITY REPORTS, AS-BUILTS, AND SHOP DRAWINGS OF THE PROJECT.

B. CONSTRUCTION SAFETY
1. ALL CONSTRUCTION SHALL BE DONE 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.

C. TRENCH SAFETY ACT
1. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE STATE OF FLORIDA TRENCH SAFETY ACT.
2. WHERE EXCAVATIONS TO A DEPTH IN EXCESS OF FIVE FEET (5') ARE REQUIRED, THE CONTRACTOR SHALL INCLUDE THE FOLLOWING INFORMATION IN THE BID:
   2.1. A REFERENCE TO THE TRENCH SAFETY STANDARDS THAT WILL BE IN EFFECT DURING THE PERIOD OF CONSTRUCTION OF THE PROJECT.
   2.2. WRITTEN ASSURANCES BY THE CONTRACTOR PERFORMING THE TRENCH EXCAVATION THAT SUCH CONTRACTOR WILL COMPLY WITH THE APPLICABLE TRENCH SAFETY STANDARDS.
   2.3. A SEPARATE ITEM IDENTIFYING THE COST OF COMPLIANCE WITH THE APPLICABLE TRENCH SAFETY STANDARDS. WHEN A BID IS NOT SUBMITTED, THE CONTRACTOR SHALL SUBMIT THE INFORMATION LISTED IN ITEM 2 ITO THE ENGINEER PRIOR TO STARTING WORK.

II. PRECONSTRUCTION RESPONSIBILITIES

A. GENERAL
1. UPON RECEIPT OF THE "NOTICE TO PROCEED", THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND ARRANGE A PRE-CONSTRUCTION CONFERENCE TO INCLUDE THE COUNTY, AND ALL INVOLVED GOVERNMENTAL AGENCIES, UTILITY OWNERS, AND THE ENGINEER OF RECORD, AND HOLD THE MANDATORY PRE-CONSTRUCTION CONFERENCE AFTER ISSUANCE OF THE CONTRACT'S "NOTICE TO PROCEED" BUT BEFORE THE ACTUAL CONSTRUCTION DATE. CONTRACTOR MAY NOT BEGIN WORK BEFORE ACTUAL CONSTRUCTION DATE.
2. THE CONTRACTOR SHALL OBTAIN A SUNSHINE CERTIFICATION NUMBER AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING/RECORDING EXISTING SITE CONDITIONS USING PHOTOGRAPHS/VIDEO RECORDINGS PRIOR TO START OF CONSTRUCTION. CONTRACTOR TO PROVIDE COPY OF RECORDS TO TOWN AND ENGINEER OF RECORD FOR RECORD PURPOSES.
4. PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION ELEVATION, AND MATERIAL OF ALL EXISTING UTILITIES WITHIN THE AREA OF CONSTRUCTION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING UTILITIES FOR WHICH IT FAILS TO REQUEST LOCATIONS FROM THE UTILITY OWNER. THE CONTRACTOR IS RESPONSIBLE AS WELL FOR DAMAGE TO ANY EXISTING UTILITIES WHICH ARE PROPERLY LOCATED.
6. 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 ENGINEER.
7. EXISTING UTILITIES SHALL BE MAINTAINED IN SERVICE DURING CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE UTILITY OWNER.
8. THE CONTRACTOR SHALL COORDINATE WITH UTILITIES TO ARRANGE RELOCATION AND TEMPORARY SUPPORT OF UTILITY FEATURE ETC. AS NECESSARY TO COMPLETE THE WORK.
9. THE UTILITY COMPANIES SHALL BE NOTIFIED BY THE CONTRACTOR TWO (2) BUSINESS DAYS IN ADVANCE OF ANY EXCAVATION INVOLVING THEIR UTILITIES SO THAT A COMPANY REPRESENTATIVE CAN BE PRESENT.
10. THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES OR UNDERGROUND UTILITIES.
11. THE CONTRACTOR SHALL COORDINATE SELECTION AND REVIEW OF ANY PROPOSED STAGING AREAS ASSOCIATED WITH THIS PROJECT WITH THE TOWN OF SOUTHWEST RANCHES.

III. INSPECTIONS

A. GENERAL
1. THE CONTRACTOR SHALL GIVE THE ENGINEER OF RECORD A MINIMUM OF TWO (2) BUSINESS DAYS ADVANCE NOTICE PRIOR TO BACKFILLING OR COMPLETING THE INSPECTION OF THE FOLLOWING ITEMS SO THE ENGINEER OF RECORD CAN PERFORM FIELD OBSERVATIONS OF THE FOLLOWING ITEMS:
   1.1. STORM DRAINAGE
   1.2. WATER MAIN
   1.3. SUBGRADE; SUBMIT AND HAVE APPROVED DENSITIES PRIOR TO PLACEMENT OF ROCK
   1.4. LIMEROCK BASE; SUBMIT AND HAVE APPROVED DENSITIES AND AS-BUILTS PRIOR TO THE PLACEMENT OF ANY ASPHALT.
   1.5. ASPHALTIC CONCRETE
   1.6. FINAL
2. ALL INSPECTIONS WILL BE MADE BY THE COUNTY AND THE TOWN OF SOUTHWEST RANCHES. THE ENGINEER OF RECORD WILL PROVIDE CONSTRUCTION OBSERVATION SERVICE.
3. IF THE CONTRACTOR FAILS TO NOTIFY THE ENGINEER OF RECORD PRIOR TO COMPLETING THE ABOVE, THE ENGINEER RESERVES THE RIGHT NOT TO ISSUE ANY CERTIFICATIONS OR FINAL INSPECTIONS.

IV. SHOP DRAWINGS

A. GENERAL
1. PRIOR TO THEIR CONSTRUCTION OR INSTALLATION, SHOP DRAWINGS SHALL BE SUBMITTED TO AND REVIEWED BY THE ENGINEER OF RECORD FOR SANITARY MANHOLES, CATCH BASINS, FIRE HYDRANTS, VALVES AND OTHER ACCESSORIES. CATALOGUE LITERATURE SHALL BE SUBMITTED FOR WATER AND SEWER PIPES, FITTINGS, AND APPURTENANCES. PRIOR TO SUBMITTING SHOP DRAWINGS TO THE ENGINEER, THE CONTRACTOR SHALL REVIEW AND APPROVE THE DRAWINGS, AND SHALL NOTE IN RED ANY DEVIATIONS FROM THE ENGINEERS PLANS OR SPECIFICATIONS. INDIVIDUAL SHOP DRAWINGS FOR ALL PRECAST STRUCTURES ARE REQUIRED. CATALOGUE LITERATURE WILL NOT BE ACCEPTABLE FOR PRECAST STRUCTURES.

V. TEMPORARY FACILITIES

A. TEMPORARY UTILITIES
1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES, AND ELECTRICITY TO ITS EMPLOYEES AND SUBCONTRACTORS FOR THEIR USE DURING CONSTRUCTION.

B. TRAFFIC REGULATION
1. MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE MUTCD. A MAINTENANCE OF TRAFFIC PLAN MUST BE APPROVED BY THE GOVERNMENTAL ENGINEERING DIVISION HAVING JURISDICTION FOR THE SECTION OF ROADWAY BEFORE STARTING WORK IN THE PUBLIC RIGHT-OF-WAY.
2. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.
3. NO TRENCHES OR HOLES NEAR WALKWAYS OR IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS WITHOUT EXPRESS PERMISSION OF THE COUNTY.

C. TEMPORARY FACILITIES
1. THE CONTRACTORS ON-SITE EQUIPMENT, STOCK PILED MATERIAL, AND SUPPLIES SHALL BE KEPT IN A SECURE, FENCED AND LOCKED LOCATION WHEN CONTRACTOR IS NOT SUPERVISING THE STAGING OR LAY DOWN AREA.
2. STAGING AND MATERIAL STORAGE SHALL NOT BE CONDUCTED ON ABUTTING PRIVATE PROPERTY OR PUBLIC RIGHT-OF-WAY WITHOUT APPROVAL FROM THE COUNTY AND THE TOWN OF SOUTHWEST RANCHES.
3. CONTRACTOR SHALL CONSTRUCT AND MAINTAIN TEMPORARY STREET LIGHTING AS REQUIRED TO LIGHT THE CONSTRUCTION PROJECT LIMITS AT ALL TIMES TO AT LEAST THE SAME LIGHTING INTENSITY LEVELS AS WAS EXISTING PRIOR TO THE START OF CONSTRUCTION. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION AND MAINTAINING LIGHTING TO BE INCLUDED IN M.O.T. PAY ITEM.
4. CONTRACTOR TO COORDINATE WITH BROWARD COUNTY TRANSIT PRIOR TO BEGINNING OF CONSTRUCTION OF TEMPORARY RELOCATION OF BUS STOPS DURING CONSTRUCTION AND ADA ACCESS TO TEMPORARY STOP WITH BCT. CONTACT BROWARD COUNTY TRANSIT AT 954-357-8300 OR AT 954-357-8232.
5. THE CONTRACTOR SHALL COORDINATE SELECTION AND REVIEW OF ANY PROPOSED STAGING AREAS ASSOCIATED WITH THIS PROJECT WITH THE TOWN OF SOUTHWEST RANCHES.

VI. PROJECT CLOSEOUT

A. CLEANING UP
1. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER. UPON FINAL CLEAN UP, THE CONSTRUCT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH, THE PAVED AREAS SHALL BE SWEPT BROOM CLEAN.
2. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED BY THE ENGINEER OR THOSE OF ITS SUBCONTRACTORS, TO EQUAL OR BETTER TO THE EXISTING CONDITION IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS. TO THIS END, THE CONTRACTOR SHALL DO ALL NECESSARY HIGHWAY OR DRIVEWAY, WALK AND LANDSCAPING WORK, SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION.
3. WHERE MATERIAL OR DEBRIS HAS WASHED OR FLOWED INTO OR BEEN PLACED IN WATER COURSES, DITCHES, DRAINS, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTORS 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.
4. UPON COMPLETION OF THE PROPOSED DRAINAGE WORK, THE CONTRACTOR SHALL CLEAN THE NEW SYSTEM, REMOVE ALL POLLUTION CONTROL DEVICES FROM THE NEW AND EXISTING SYSTEM, AND CLEAN THE EXISTING STRUCTURES AND DRAINAGE SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
5. THE CONTRACTOR IS RESPONSIBLE FOR CLEANING OF ALL OF THE EXISTING DRAINAGE SYSTEM AFFECTED BY THE CONSTRUCTION WITHIN THE RIGHT-OF-WAY UPON COMPLETION OF THE PROJECT.

B. PROJECT RECORD DOCUMENTS
1. THE CONTRACTOR SHALL MAINTAIN ACCURATE AND COMPLETE RECORDS OF WORK ITEMS COMPLETED.
2. PRIOR TO THE PLACEMENT OF ANY ASPHALT OR CONCRETE PAVEMENT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER "AS-BUILT" PLANS (SIGNED AND SEALED BY A FLORIDA CERTIFIED PROFESSIONAL LAND SURVEYOR) SHOWING LIMEROCK BASE GRADES. PAVING OPERATIONS SHALL NOT COMMENCE UNTIL THE ENGINEER HAS REVIEWED THE "AS-BUILTS."
3. ALL REQUIRED DENSITY AND LBR TEST RESULTS FOR SUB-GRADE SHALL BE PROVIDED TO THE ENGINEER PRIOR TO PLACING BASE MATERIAL.
4. ALL REQUIRED DENSITY AND LBR TEST RESULTS FOR LIMEROCK SHALL BE PROVIDED TO THE ENGINEER PRIOR TO PLACING ASPHALT.
5. ALL "AS-BUILT" INFORMATION SUBMITTED TO THE ENGINEER SHALL BE SUFFICIENTLY ACCURATE, CLEAR AND LEGIBLE TO SATISFY THE ENGINEER THAT THE INFORMATION PROVIDES A TRUE REPRESENTATION OF THE IMPROVEMENTS CONSTRUCTED.
6. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD COMPLETE SETS OF "AS-BUILT" CONSTRUCTION DRAWINGS (SIGNED AND SEALED BY A FLORIDA CERTIFIED PROFESSIONAL LAND SURVEYOR) AS REQUIRED FOR SUBMITTAL AND APPROVAL. THESE DRAWINGS SHALL BE MARKED TO SHOW "AS-BUILT" CONSTRUCTION CHANGES AND DIMENSIONED LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS AND SHALL BE SIGNED AND SEALED BY A REGISTERED LAND SURVEYOR.
7. ALL "AS-BUILT" INFORMATION ON ELEVATIONS OF WATER, SEWER, PAVING, AND DRAINAGE SHALL BE CERTIFIED BY A REGISTERED LAND SURVEYOR.
8. AS-BUILT INFORMATION ON THE WATER SYSTEM SHALL INCLUDE LOCATIONS OF ALL VALVES, FITTINGS, FIRE HYDRANTS, WATER SERVICES AND TOP OF PIPE ELEVATIONS AT ALL FITTINGS AND AT A MINIMUM OF 100' SPACING.
9. THE COST OF SIGNED AND SEALED AS-BUILTS AND CADD FILES SHALL BE INCLUDED IN THE COST OF THE OVERALL BID.

VII. EARTHWORK

A. GENERAL
1. NONE OF THE EXISTING MATERIAL IS TO BE INCORPORATED IN THE LIMEROCK BASE.
2. ALL SUB-GRADE UNDER PAVED AREAS SHALL BE 12" THICK AND HAVE A MINIMUM LBR VALUE OF 40. AND SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
3. ALL FILL MATERIAL IN AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
4. A 2" BLANKET OF TOP SOIL SHALL BE PLACED OVER ALL AREAS TO BE SODDED.
5. SOD SHALL BE ST. AUGUSTINE, BITTER BLUE OR FLORATAM AND SHALL BE PLACED ON THE GRADED TOP SOIL AND WATERED TO INSURE SATISFACTORY CONDITION UPON FINAL ACCEPTANCE OF THE PROJECT.
6. WHEN WORKING IN AND AROUND EXISTING DRAINAGE CANALS OR LAKES, APPROPRIATE SILT BARRIERS SHALL BE INSTALLED.
7. ALL ORGANIC AND OTHER UNSUITABLE MATERIAL UNDER THOSE AREAS TO BE PAVED SHALL BE REMOVED TO A DEPTH OF THREE (3) FEET BELOW FINISHED GRADE AND FOR THREE(3) FEET BEYOND THE PERIMETER OF THE PAVING.
8. SUITABLE BACKFILL SHALL BE MINIMUM LBR 40 MATERIAL COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 THREE (3) FEET BEYOND THE PERIMETER OF PAVING.
9. CONTRACTOR SHALL TIE TO EXISTING GRADE BY EVENLY SLOPING FROM CLOSEST PROPOSED GRADE PROVIDED TO EXISTING GRADE AT LIMITS OF WORK UNLESS OTHERWISE NOTED ON PLANS. IF NO LIMIT OF WORK IS INDICATED, SLOPE TO THE ADJACENT PROPERTY LINE OR RIGHT-OF-WAY LINE AS APPLICABLE.
10. SITE GRADING ELEVATIONS SHALL BE WITHIN 0.1 OF THE REQUIRED ELEVATION AS SHOWN ON THE PLANS AND ALL AREAS SHALL BE GRADED TO DRAIN WITHOUT PONDING.
11. GROUND ADJACENT TO ROADWAY/PAVEMENT WHERE STORMWATER RUNOFF FLOWS FROM PAVEMENT TO GROUND SHALL BE GRADED TWO (2) INCHES LOWER THAN THE EDGE OF PAVEMENT TO ALLOW FOR THE PLACEMENT OF SOD.
12. WHEN ENCOUNTERED WITHIN PROPOSED DRAINAGE SWALES, HARDPAN SHALL BE REMOVED FOR A WIDTH OF FIVE (5) FEET AT THE INVERT AND REPLACED WITH GRANULAR MATERIALS.
13. ALL AREAS TO BE CONSTRUCTED UPON WITH STRUCTURES, PAVEMENT, DRAINAGE, WATER, SEWER, CURBING, SIDEWALK, FENCING, ETC., SHALL BE CLEARED AND GRUBBED PRIOR TO CONSTRUCTION. THIS SHALL CONSIST OF THE COMPLETE REMOVAL OF AND DISPOSAL OF ALL TREES, BRUSH, STUMPS, ROOTS, GRASS, WEEDS, RUBBISH, AND ALL OTHER OBSTRUCTIONS RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE EXISTING GROUND TO A DEPTH OF 6 INCHES. ITEMS DESIGNATED TO OPERATION. ALL WORK SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
14. ALL PROPOSED GRADES SHOWN IN PLAN ARE FINISHED GRADES.

VIII. PAVING

A. GENERAL
1. ALL REPAIRS TO EXISTING PAVEMENT SHALL RECEIVE SAW-CUT EDGES PRIOR TO RELAYING ASPHALT. ALL EXISTING PAVEMENT, LIMEROCK AND SUB-GRADE THAT IS AFFECTED AND NOT PART OF THE CONSTRUCTION PROJECT SHALL BE PROPERLY RESTORED AT THE CONTRACTOR'S EXPENSE.

B. MATERIALS
1. LIMEROCK BASE MATERIAL SHALL HAVE A MINIMUM OF 70% CARBONATES (CALCIUM AND MAGNESIUM) WITH A MINIMUM LBR OF 100.
2. PRIME COAT SHALL BE APPLIED AT THE RATE OF 0.25 GAL/YD SQ. AND TACK COAT SHALL MEET FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARDS.
3. SURFACE COURSE SHALL BE EQUAL TO FDOT TYPE SP-9.5 ASPHALTIC CONCRETE.

C. INSTALLATION
1. LIMEROCK BASE MATERIAL SHALL BE 8" THICK AND COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
2. LIMEROCK BASE MATERIAL SHALL BE PLACED IN MAXIMUM 6" LIFTS. BASES GREATER THAN 6" OF LIMEROCK SHALL BE PLACED IN TWO OR MORE EQUAL LIFTS. LIMEROCK BASE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
3. ASPHALTIC CONCRETE SHALL BE 1 1/2" SP-9.5 AS SPECIFIED.
4. PRIME COAT SHALL BE PLACED ON ALL LIMEROCK BASES IN ACCORDANCE WITH FDOT STANDARDS.
5. TACK COAT SHALL BE PLACED AS REQUIRED IN ACCORDANCE WITH FDOT STANDARDS.
6. CARBONATES CONTENT MINIMUM 70% AND LBR MINIMUM OF 100.
7. BASE COURSE CONSTRUCTION SHALL NOT BE STARTED UNTIL ALL UNDERGROUND CONSTRUCTION IN THE VICINITY HAS BEEN TESTED AND ACCEPTED.
8. WEARING COURSES SHALL NOT BE PLACED UNTIL:
   8.1. A WALK THROUGH HAS BEEN CONDUCTED TO DETERMINE IF THERE IS ANY REMAINING WORK THAT MIGHT CAUSE DAMAGE TO THE FINAL LIFT.
   8.2. ALL LANDSCAPING WORK THAT MIGHT CAUSE DAMAGE TO THE FINAL LIFT IS COMPLETE.

D. TESTING
1. ALL SUB-GRADE, LIMEROCK AND ASPHALT TESTS REQUIRED SHALL BE TAKEN AT THE DIRECTION OF THE ENGINEER AND PER THE TOWN OF SOUTHWEST RANCHES REQUIREMENTS.
2. DENSITY TESTS SHALL BE CONDUCTED EVERY 200 FEET AND TWO FEET AWAY FROM ANY MANHOLE OR DRAINAGE STRUCTURE INSTALLED IN PAVED AREAS.

IX. SIGNING AND MARKING

1. ALL PAVEMENT MARKING AND SIGNING SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), BROWARD COUNTY TRAFFIC ENGINEERING, FDOT, AND TOWN OF SOUTHWEST RANCHES STANDARDS.
2. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED. CONTRACTOR SHALL PAINT MARKINGS. AFTER A 14 DAY CURING PERIOD, THERMOPLASTIC PAVEMENT MARKINGS SHALL BE PLACED.
3. ONE BI-DIRECTIONAL YELLOW REFLECTIVE PAVEMENT MARKER SHALL BE PROVIDED AT 40' INTERVALS ON EACH SIDE OF DOUBLE YELLOW STRIPES.
4. BI-DIRECTIONAL AMBER/AMBER REFLECTIVE PAVEMENT MARKERS SHALL BE PROVIDED AT 1' INTERVALS AT ALL BULLNOSES. AS PER BROWARD COUNTY TRAFFIC ENGINEERING DIVISION.
5. BI-DIRECTIONAL WHITE/RED REFLECTIVE PAVEMENT MARKERS SHALL BE PROVIDED AT 20' INTERVALS ALONG SOLID WHITE LINES (NOT ON EDGE OF PAVEMENT OR BIKE LANE LINES).
6. REFLECTIVE PAVEMENT MARKERS SHALL BE CLASS B MARKERS MANUFACTURED IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS 706 AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PROCEDURES.
7. ALL SIGNING SHALL BE FABRICATED USING TYPE XI SHEETING, AS PER BROWARD COUNTY TRAFFIC ENGINEERING STANDARDS (CURRENT EDITION).
8. ALL PAVEMENT MARKINGS AND SIGNING DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO BROWARD COUNTY TRAFFIC ENGINEERING STANDARDS (CURRENT EDITION).
9. IF REQUIRED, EXISTING MARKINGS SHALL BE REMOVED BY WATER BLASTING ONLY.
10. SEE SIGNING AND MARKING DETAILS SHEET C400 FOR ADDITIONAL INFORMATION.
11. ALL EXISTING SIGNALIZATION EQUIPMENT TO REMAIN IS ASSUMED TO BE IN GOOD WORKING ORDER UNLESS BROWARD COUNTY TRAFFIC ENGINEERING DIVISION IS NOTIFIED IN WRITING PRIOR TO START OF CONSTRUCTION. ANY SUBSEQUENT DAMAGE TO THE SIGNAL EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
12. CONTRACTOR TO SUBMIT ENGINEER APPROVAL LETTER ON PAVEMENT MARKINGS NOT MAINTAINED BY BROWARD COUNTY TRAFFIC ENGINEERING DEPARTMENT.

X. MAINTENANCE OF TRAFFIC

1. TRAFFIC CONTROLS SHALL BE IN ACCORDANCE WITH THE PROJECT TRAFFIC PLANS, THE CURRENT EDITION OF THE FLORIDA D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARD INDEXES (600 SERIES). THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS MINIMUM CRITERIA.
2. THE CONTRACTOR SHALL IMMEDIATELY REPAIR ALL POTHOLES THAT DEVELOP WITH PROJECT LIMITS AND WILL MAINTAIN A SUPPLY OF COLD MIX ON THE PROJECT SITE TO EXPEDITE THOSE REPAIRS. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED AS PART OF THE OVERALL BID.
3. REQUEST FOR PROPOSED LANE CLOSURES OR TEMPORARY DETOURS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL TO ROADWAY'

Plotted By:Beziner, Eliana Sheet Set:SW Ranches Green Meadows Drainage Layout:C101.2 Key Map May 17, 2024 09:00:29am K:\fti_civil\143 Jobs\143221005 sw ranches green meadows drainage\CAD\plansheets\C101.2 Key Map.dwg
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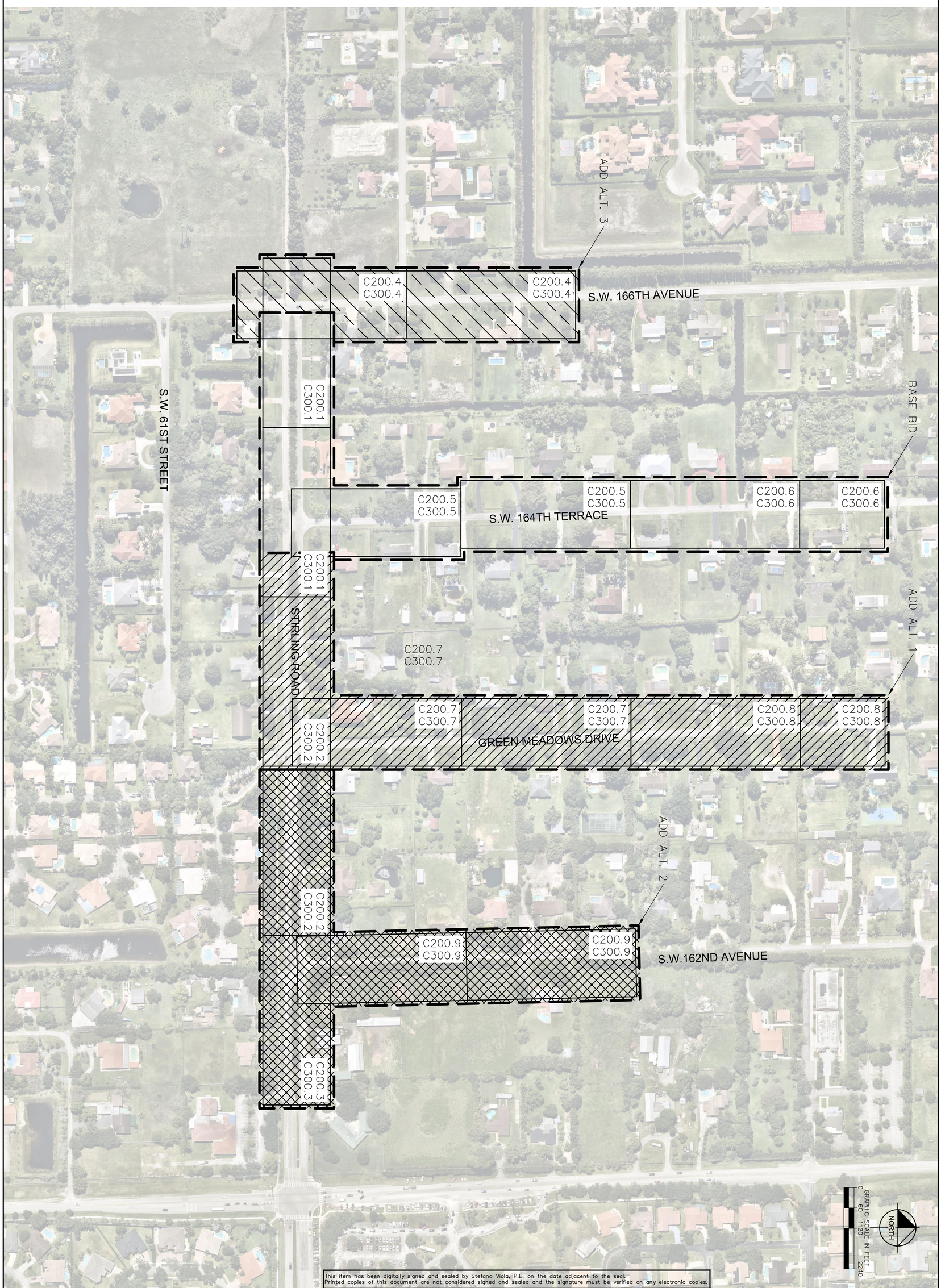

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SHEET NUMBER
C101.2

SW RANCHES GREEN MEADOWS DRAINAGE

PREPARED FOR
TOWN OF SOUTHWEST RANCHES
SOUTHWEST RANCHES FLORIDA

KEY MAP

KHA PROJECT	143221005
DATE	05/15/2024
SCALE	AS SHOWN
DESIGNED BY	TS
DRAWN BY	DG
CHECKED BY	SV

STEFANO VIOLA LICENSE No 74655 STATE OF FLORIDA PROFESSIONAL ENGINEER
DATE:

Kimley»Horn
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8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
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No.	REVISIONS	DATE	BY

Posted By:Brainer, Elona Sheet Set:SW Ranches Green Meadows Drainage Layout:C2001 Demolition and Erosion Plan May 17, 2024 09:01:35am K:\ftl_civil\143221005 sw ranches green meadows drainage\CAD\plansheets\C2001 Demolition and Erosion Control Plan.dwg
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MATCHLINE SEE SHEET C200.4 FOR CONTINUATION

MATCHLINE SEE SHEET C200.5 FOR CONTINUATION

MATCHLINE SEE BOTTOM LEFT FOR CONTINUATION

MATCHLINE SEE TOP RIGHT FOR CONTINUATION

MATCHLINE SEE SHEET C200.2 FOR CONTINUATION

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

S.W. 166TH AVENUE
(RIGHT OF WAY VARIES)

STIRLING ROAD
(RIGHT OF WAY VARIES)

S.W. 164TH TERRACE
(50' RIGHT OF WAY)

EXIST. PAVER DRIVEWAY TO BE REMOVED. EXIST. PAVERS TO BE USED FOR RECONSTRUCTION

PROP. SILT FENCE (TYP.)

2.75'x2.75' CONC. PILLAR (TYP.)

6' METAL FENCE

GATE

LOT 1 - BLOCK 2
GREEN MEADOWS SECTION TWO
P.B. 86, PG. 28; B.C.R.

PROP. TURBIDITY BARRIER (TYP.)

EXIST. DIRT DRIVEWAY TO BE REMOVED

NORTHING: 622210.83
EASTING: 863110.75

SW 166TH AVENUE ALIGNMENT

ADD. BASE ALT. 3 BID

EXIST. CONC. DRIVEWAY TO BE REMOVED AT EXTENTS SHOWN

CONC. DRIVE

PAVER DRIVE

ASPH DRIVE

STIRLING ROAD ALIGNMENT

PROP. SILT FENCE (TYP.)

BLOCK 1
GREEN MEADOWS SECTION TWO
P.B. 86, PG. 28; B.C.R.

HEDGES

LOT 32 - BLOCK 2
GREEN MEADOWS SECTION TWO
P.B. 86, PG. 28; B.C.R.

LOT 1 - BLOCK 3
GREEN MEADOWS SECTION TWO
P.B. 86, PG. 28; B.C.R.

SW 164TH TERRACE ALIGNMENT

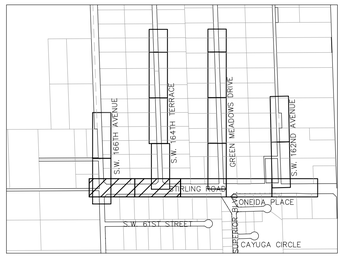
BASE BID ALT 1

ELECTRIC PANEL

4' W.F.

EXIST. ASPHALT DRIVEWAY TO BE REMOVED AT EXTENTS SHOWN

KEY MAP



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DEMOLITION AND EROSION CONTROL PLAN

SW RANCHES GREEN MEADOWS DRAINAGE

PREPARED FOR
TOWN OF SOUTHWEST RANCHES
SOUTHWEST RANCHES FLORIDA

SHEET NUMBER
C200.1

Plotted By:Brazner, Eliona Sheet Set:SW Ranches Green Meadows Drainage Layout:C200.2 Demolition and Erosion Plan May 17, 2024 09:01:49am K:\FtL_civil\143 Jobs\143221005 sw ranches green meadows drainage\CAD\plansheets\C200.1 Demolition and Erosion Control Plan.dwg
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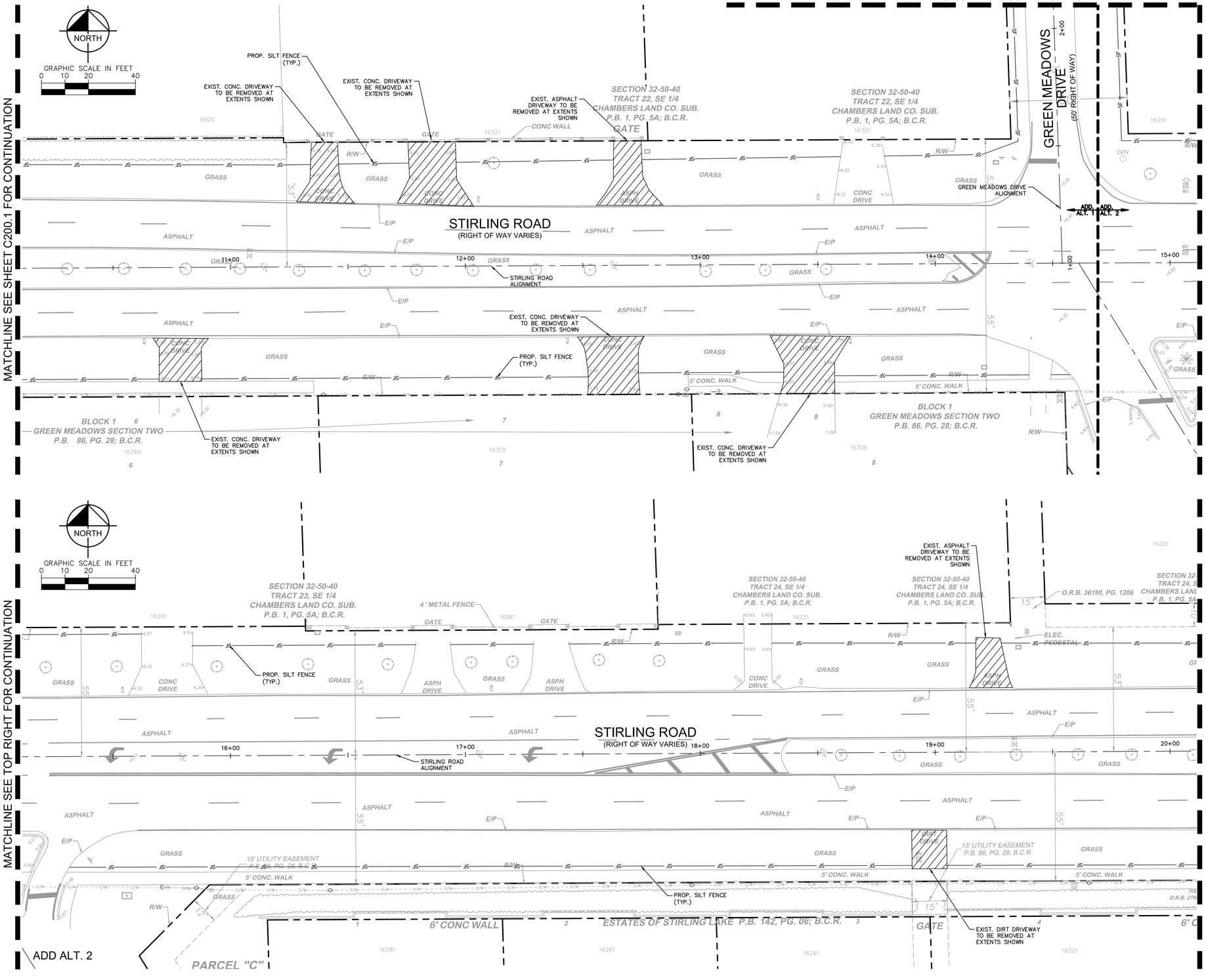
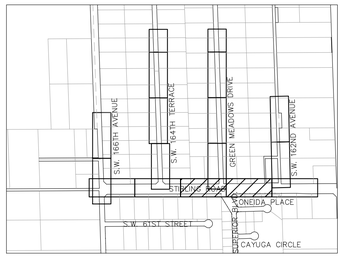


KEY MAP



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KHA PROJECT	143221005
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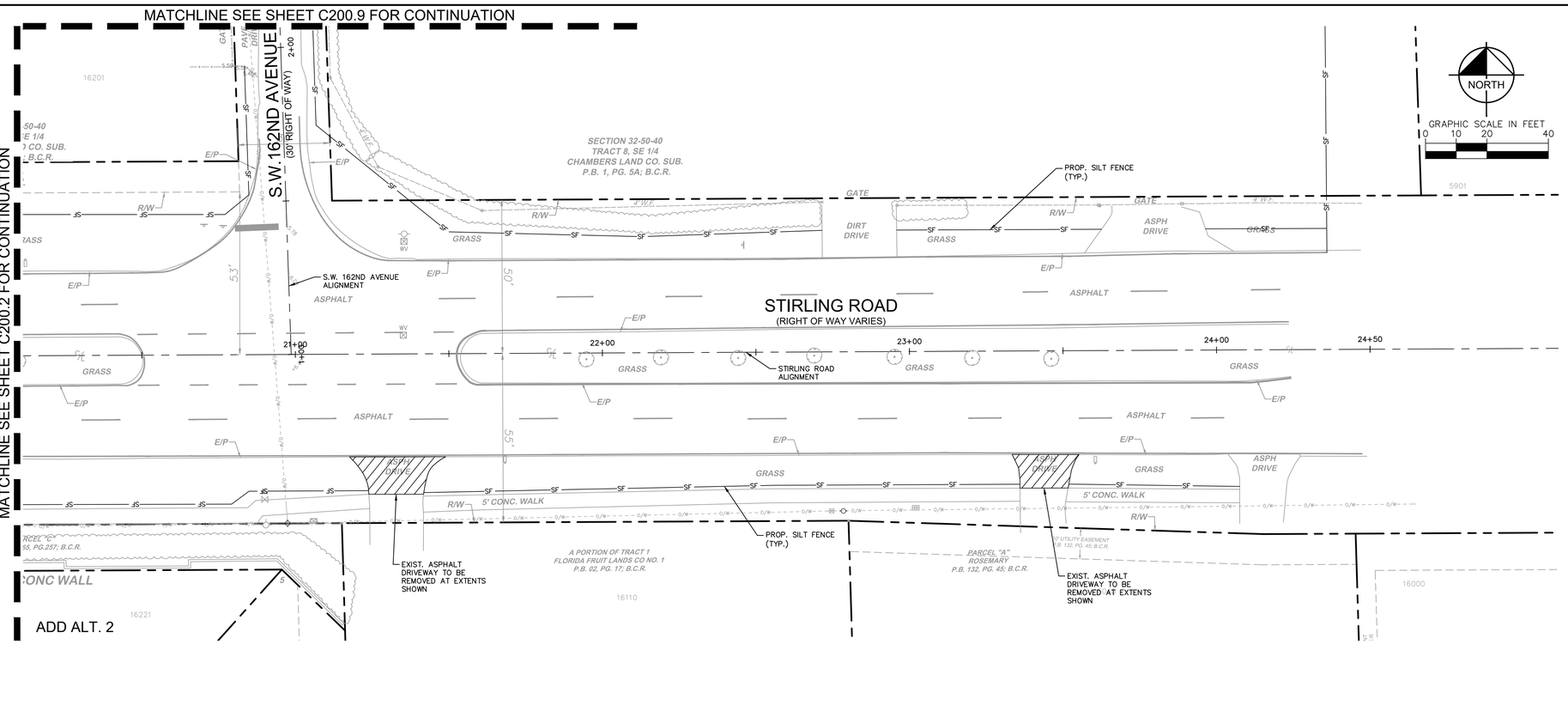
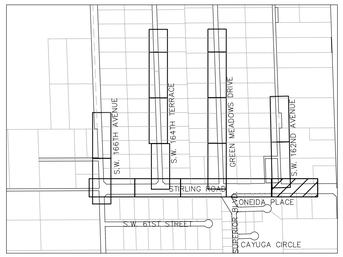
DEMOLITION AND EROSION CONTROL PLAN

SW RANCHES GREEN MEADOWS DRAINAGE
PREPARED FOR
TOWN OF SOUTHWEST RANCHES
SOUTHWEST RANCHES FLORIDA

SHEET NUMBER
C200.2



KEY MAP



GRAPHIC SCALE IN FEET
0 10 20 40

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No.	REVISIONS	DATE	BY

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8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM REGISTRY No. 696

STEFANO VIOLA LICENSE No 74655 STATE OF FLORIDA PROFESSIONAL ENGINEER DATE: 5/15/2024

KHA PROJECT 143221005			
DATE 05/15/2024			
SCALE AS SHOWN	DESIGNED BY	TS	
	DRAWN BY	DG	
	CHECKED BY	SV	

DEMOLITION AND EROSION CONTROL PLAN

SW RANCHES GREEN MEADOWS DRAINAGE
PREPARED FOR
TOWN OF SOUTHWEST RANCHES
SOUTHWEST RANCHES FLORIDA

SHEET NUMBER
C200.3

Plotted By:Betiner, Elona Sheet Set:SW Ranches Green Meadows Drainage Layout:C200.3 Demolition and Erosion Plan May 17, 2024 09:02:00am K:\Ftl_civil\143 Jobs\143221005 sw ranches green meadows drainage\CAD\plansheets\C200.1 Demolition and Erosion Control Plan.dwg
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Plotted By:Brazinec, Eliona Sheet Set:SW Ranches Green Meadows Drainage Layout:C200.4 Demolition and Erosion Plan May 17, 2024 09:02:12am K:\tls_civil\143 Jobs\143221005 sw ranches green meadows drainage\CAD\plansheets\C200.1 Demolition and Erosion Control Plan.dwg
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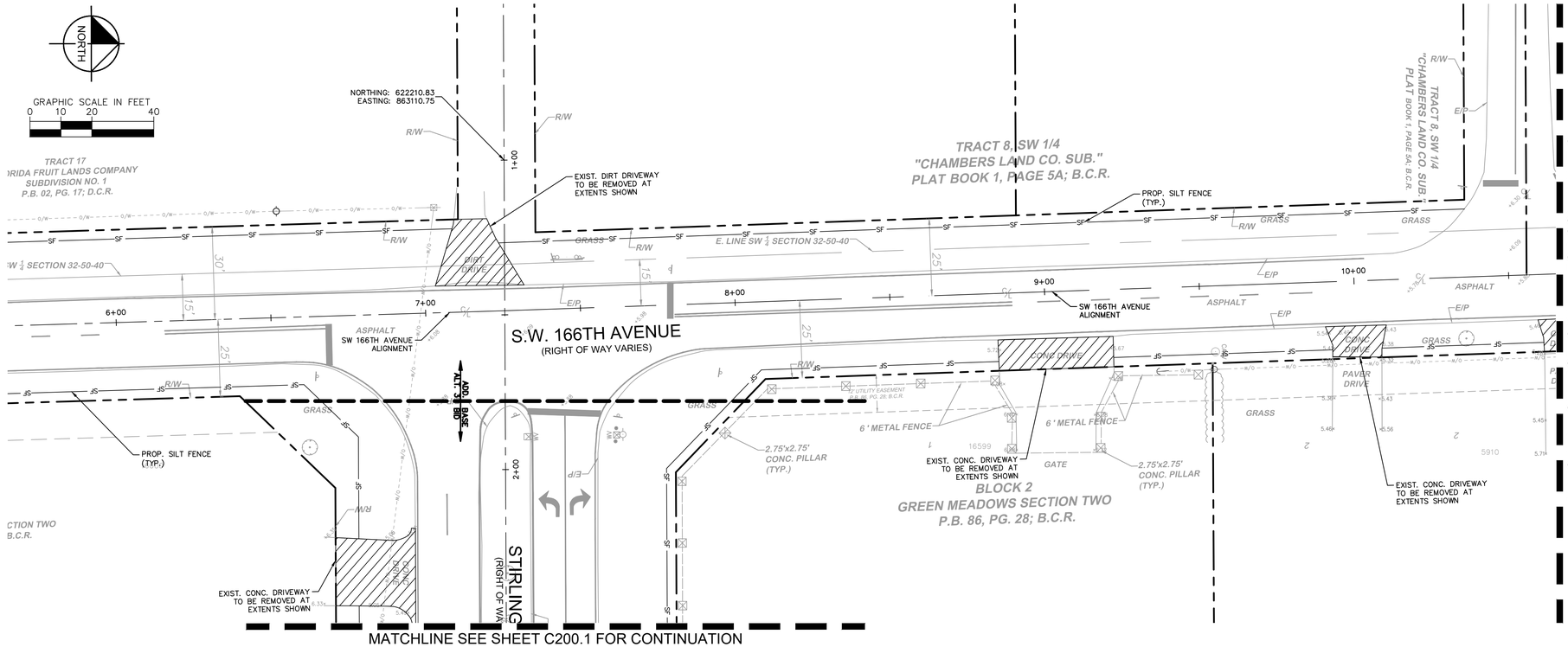
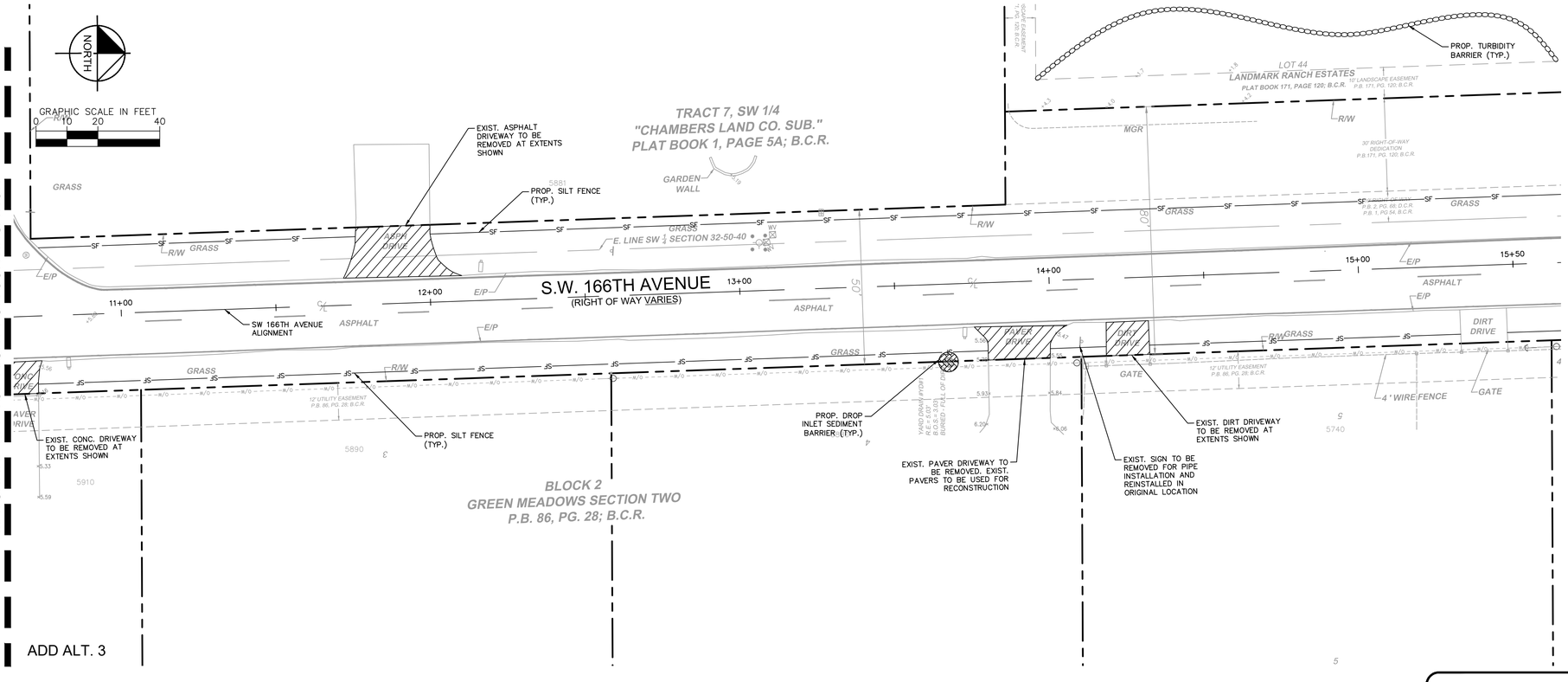
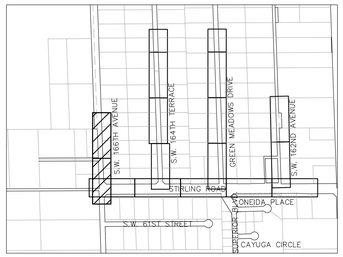




KEY MAP



LEGEND

- PROPERTY LINE/RIGHT-OF-WAY
- PROPOSED ALIGNMENT
- PROPOSED SILT FENCE
- EXISTING FENCE
- EXISTING SANITARY SEWER PIPE
- EXISTING STORM DRAIN PIPE
- EXISTING WATER PIPE
- EXISTING GAS LINE
- EXISTING FORCEMAIN
- EXISTING OVERHEAD WIRE
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- EXISTING STORM MANHOLE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING SIGN
- EXISTING LIGHT POLE
- EXISTING WATER VALVE
- EXISTING HYDRANT
- EXISING TO BE REMOVED
- PROPOSED DROP INLET SEDIMENT BARRIER
- PROPOSED TURBIDITY BARRIER

NOTES

1. CONTRACTOR TO PERFORM SITE VISIT PRIOR TO BID SUBMITTAL FOR THE PROJECT TO VERIFY ANY PLAN DISCREPANCIES.
2. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
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7. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT FROM DETENTION PONDS AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
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DATE	05/15/2024
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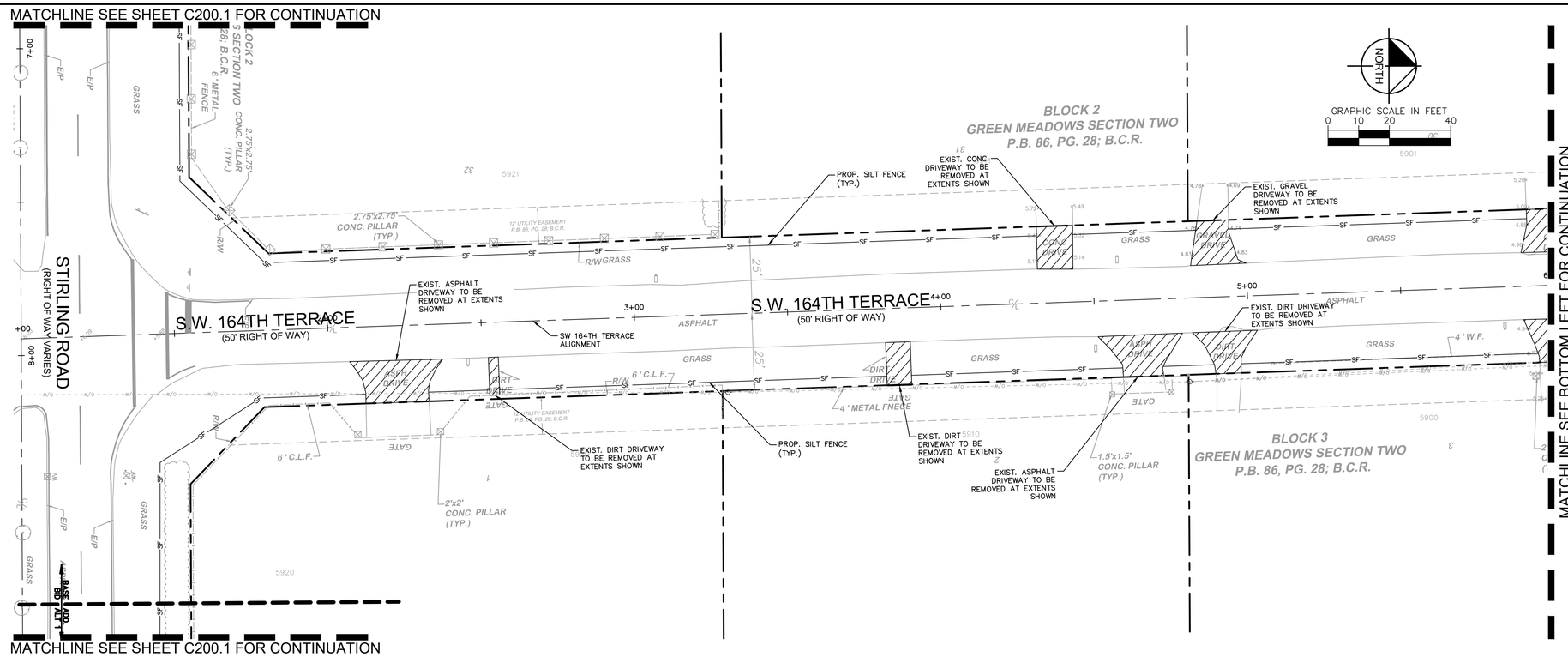
DESIGNED BY	TS
DRAWN BY	DG
CHECKED BY	SV

DEMOLITION AND EROSION CONTROL PLAN

SW RANCHES GREEN MEADOWS DRAINAGE
PREPARED FOR
TOWN OF SOUTHWEST RANCHES
SOUTHWEST RANCHES, FLORIDA

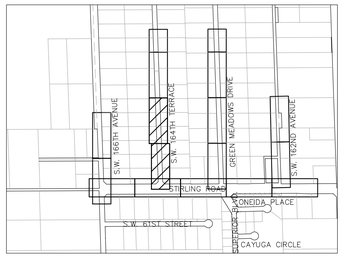
SHEET NUMBER
C200.4

MATCHLINE SEE SHEET C200.1 FOR CONTINUATION



MATCHLINE SEE BOTTOM LEFT FOR CONTINUATION

KEY MAP



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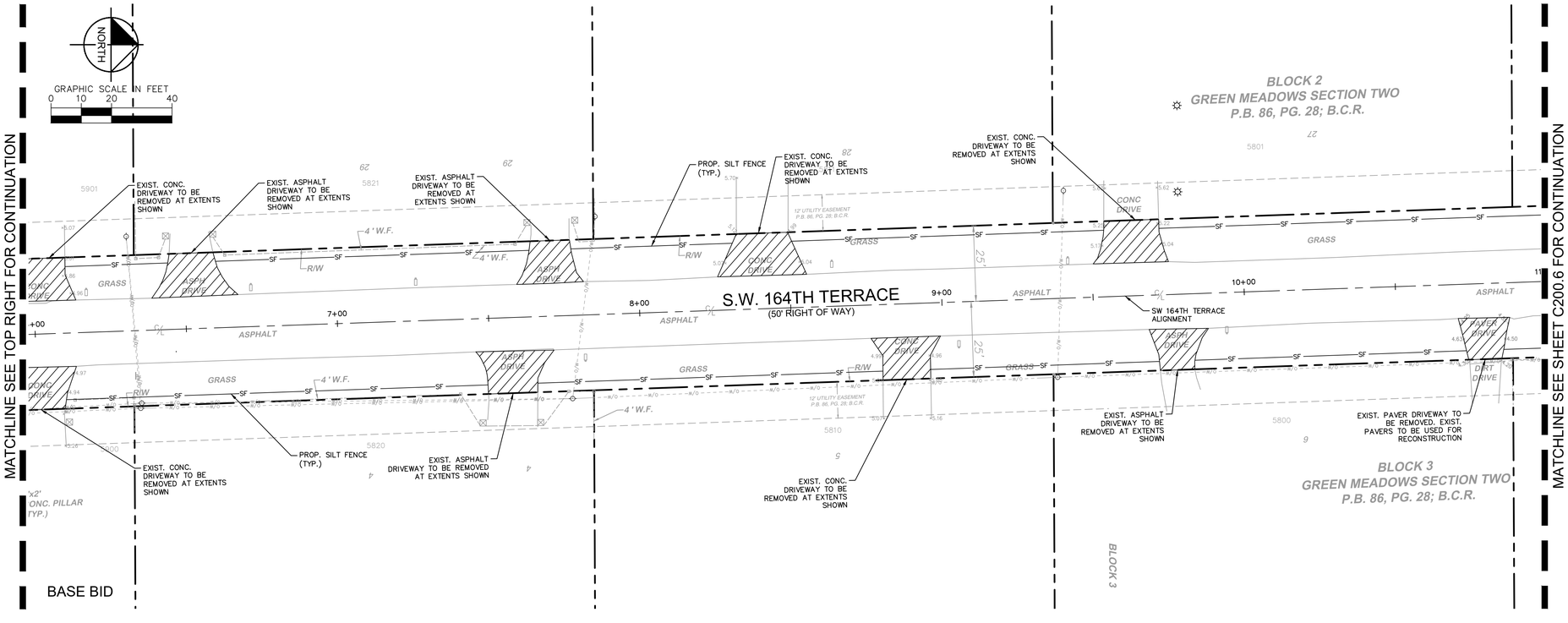
MATCHLINE SEE TOP RIGHT FOR CONTINUATION



MATCHLINE SEE SHEET C200.6 FOR CONTINUATION

BASE BID

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

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KHA PROJECT 143221005
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DESIGNED BY TS
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CHECKED BY SV

DEMOLITION AND EROSION CONTROL PLAN

SW RANCHES GREEN MEADOWS DRAINAGE
PREPARED FOR
TOWN OF SOUTHWEST RANCHES
SOUTHWEST RANCHES FLORIDA

SHEET NUMBER
C200.5

Plotted By: Brazinec, Elona Sheet Set: SW Ranches Green Meadows Drainage Layout: C200.5 Demolition and Erosion Plan May 17, 2024 09:02:24am K:\tll_civil\143 jobs\143221005 sw ranches green meadows drainage\CAD\plansheets\C200.1 Demolition and Erosion Control Plan.dwg
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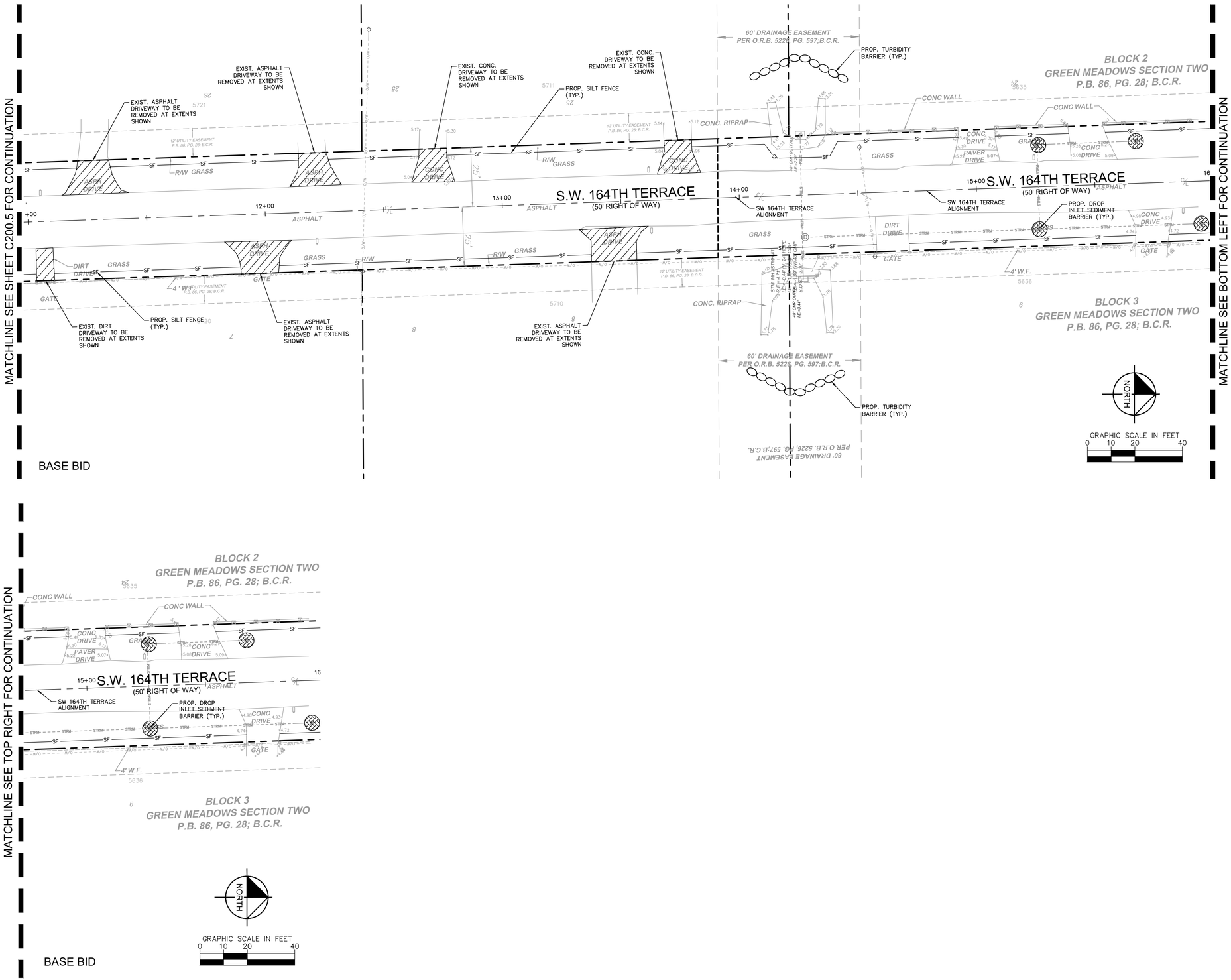
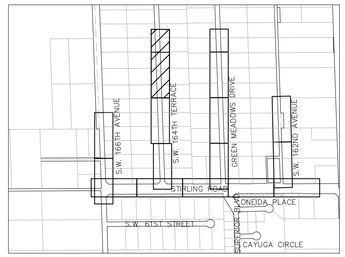


KEY MAP



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PREPARED FOR
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SOUTHWEST RANCHES FLORIDA

SHEET NUMBER
C200.6

Plotted By:Betzner, Elona Sheet Set:SW Ranches Green Meadows Drainage Layout:C200.6 Demolition and Erosion Plan May 17, 2024 09:02:37am K:\Ftl_civil\143 Jobs\143221005 sw ranches green meadows drainage\CAD\plansheets\C200.1 Demolition and Erosion Control Plan.dwg
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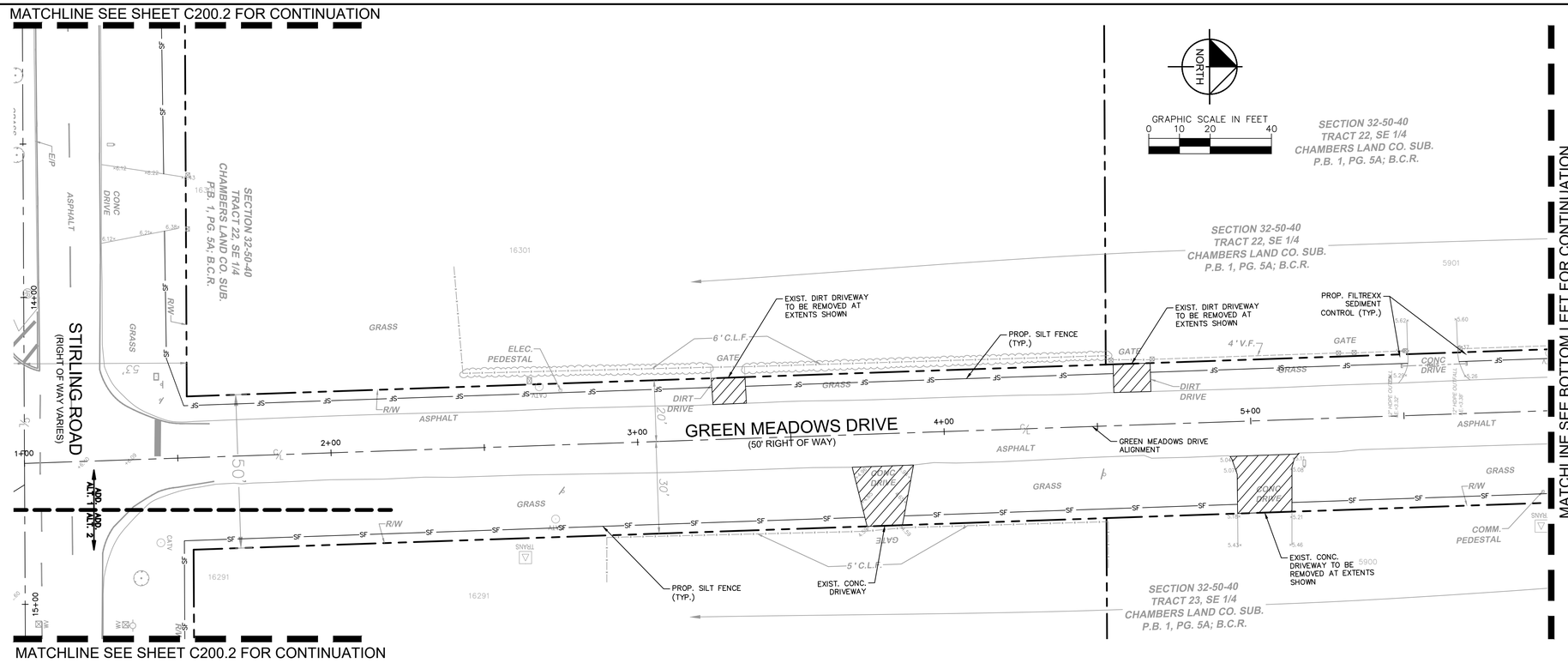
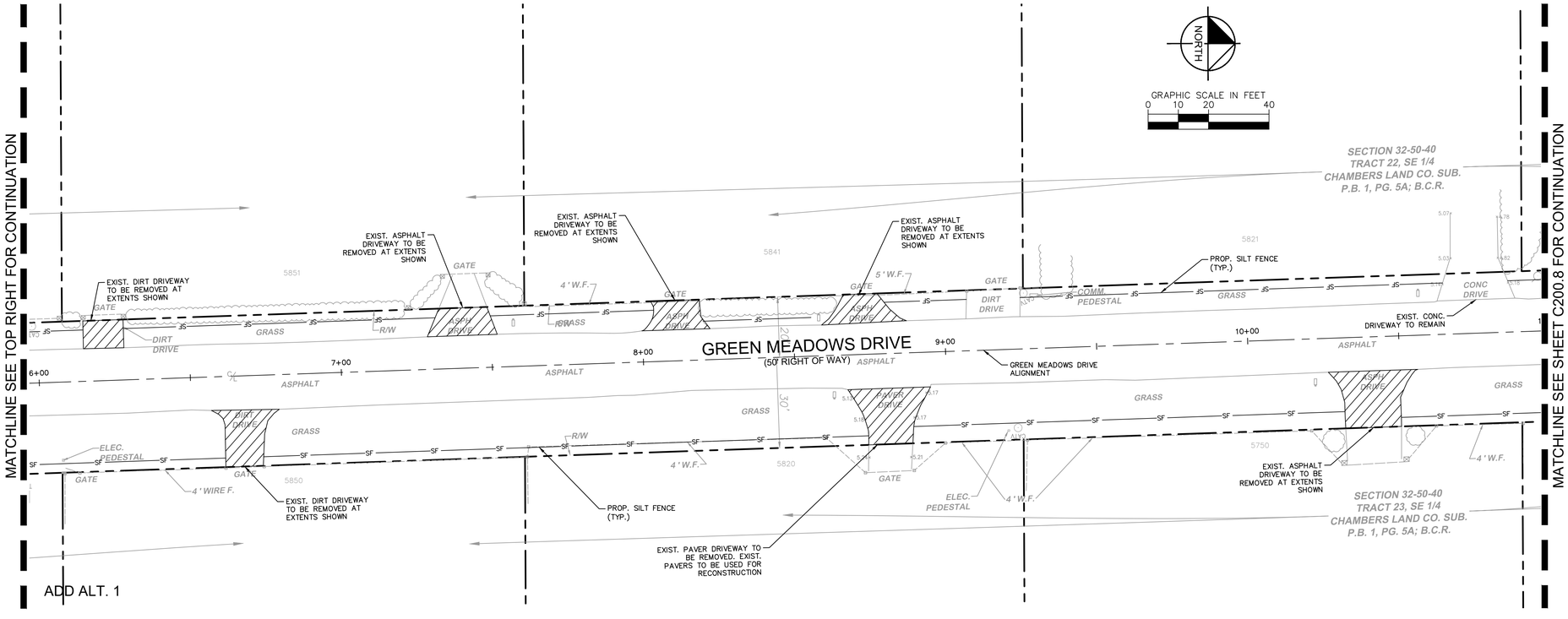
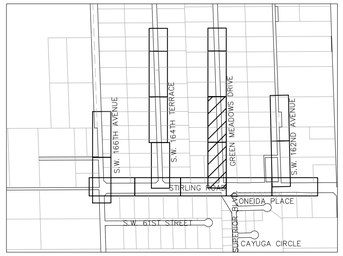
MATCHLINE SEE SHEET C200.2 FOR CONTINUATION





KEY MAP



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15. ALL ASPHALT TO BE REMOVED SHALL BE SAW CUT ADJACENT TO REMAINING IMPROVEMENTS.
16. CONTRACTOR TO MAINTAIN DRAINAGE FLOW DURING AND AFTER CONSTRUCTION.
17. ALL EXISTING SIGNS IMPACTED BY CONSTRUCTION SHALL BE MODIFIED/RELOCATED AS NECESSARY AT THE CONTRACTOR'S EXPENSE.

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

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8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM REGISTRY No. 696

STEFANO V. VIOLA LICENSE No 74655 STATE OF FLORIDA PROFESSIONAL ENGINEER

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KHA PROJECT	
143221005	
DATE	05/15/2024
SCALE	AS SHOWN
DESIGNED BY	TS
DRAWN BY	DG
CHECKED BY	SV

DEMOLITION AND EROSION CONTROL PLAN

SW RANCHES GREEN MEADOWS DRAINAGE
PREPARED FOR
TOWN OF SOUTHWEST RANCHES
SOUTHWEST RANCHES, FLORIDA

SHEET NUMBER
C200.7

Plotted By: Brazner, Eliana Sheet Set: SW Ranches Green Meadows Drainage Layout: C200.7 Demolition and Erosion Plan May 17, 2024 09:02:48am K:\tll_civil\143 jobs\143221005 sw ranches green meadows drainage\CAD\plansheets\C200.1 Demolition and Erosion Control Plan.dwg
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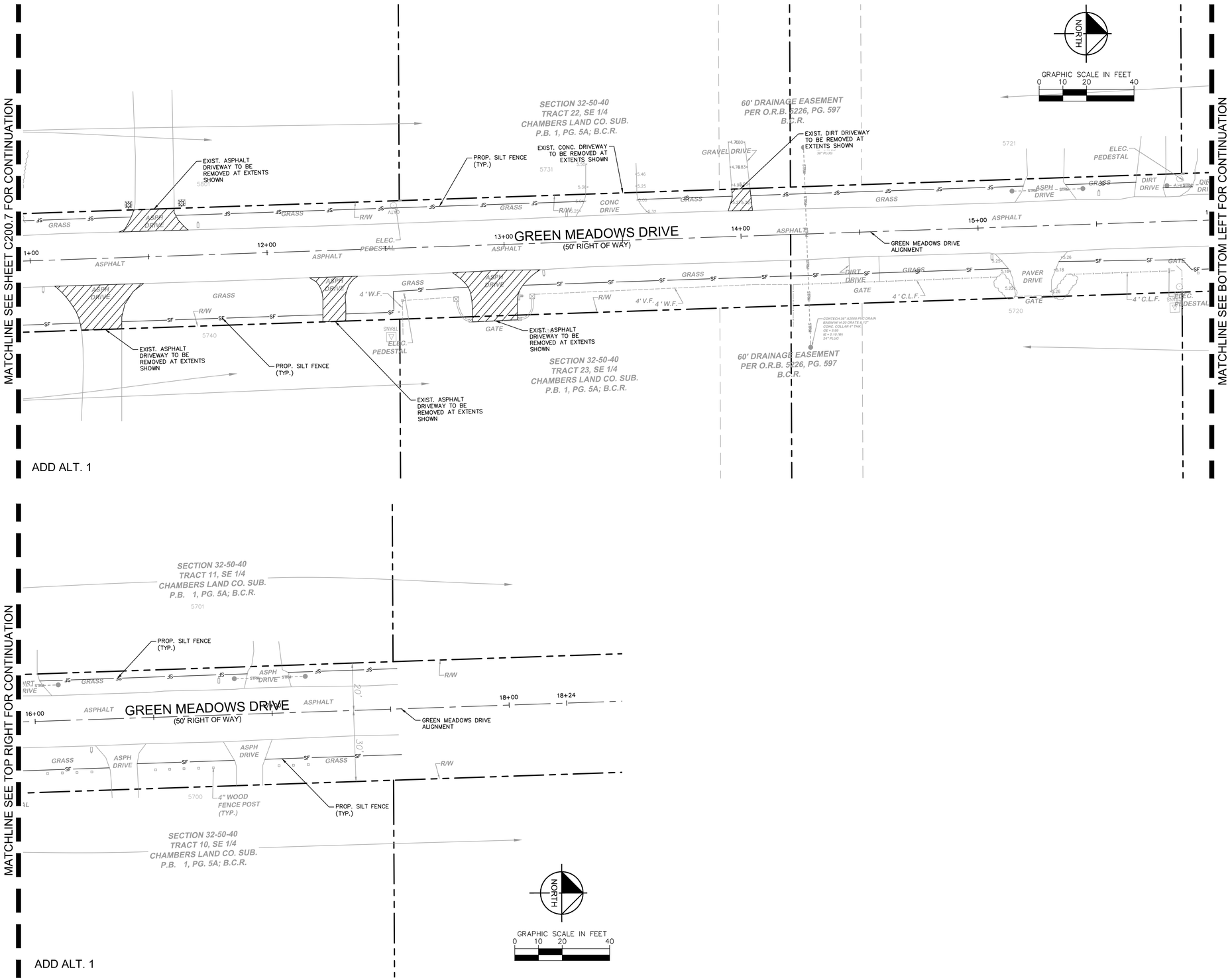
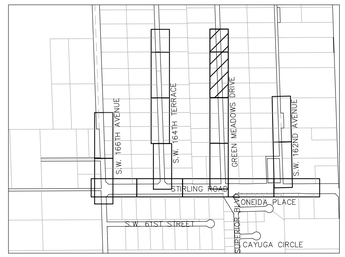


KEY MAP



LEGEND

- PROPERTY LINE/RIGHT-OF-WAY
- PROPOSED ALIGNMENT
- PROPOSED SILT FENCE
- EXISTING FENCE
- EXISTING SANITARY SEWER PIPE
- EXISTING STORM DRAIN PIPE
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- EXISTING WATER VALVE
- EXISTING HYDRANT
- EXISING TO BE REMOVED
- PROPOSED DROP INLET SEDIMENT BARRIER
- PROPOSED TURBIDITY BARRIER

NOTES

1. CONTRACTOR TO PERFORM SITE VISIT PRIOR TO BID SUBMITTAL FOR THE PROJECT TO VERIFY ANY PLAN DISCREPANCIES.
2. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
3. GENERAL EROSION CONTROL BMPS SHALL BE EMPLOYED TO MINIMIZE SOIL EROSION. WHILE THE VARIOUS TECHNIQUES REQUIRED WILL BE SITE AND PLAN SPECIFIC, THEY SHOULD BE EMPLOYED AS SOON AS POSSIBLE DURING CONSTRUCTION.
4. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR TO NOTIFY ENGINEER OF ANY CONFLICTS.
5. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO TAKE THE NECESSARY PRECAUTIONS TO ENSURE PROPER SAFETY AND WORKMANSHIP WHEN WORKING IN THE VICINITY OF EXISTING UTILITY LINES.
6. CONTRACTOR TO PROTECT EXISTING TREES DURING CONSTRUCTION PER FDOT INDEX 110-100. CONTRACTOR TO TRIM ANY LOW-HANGING TREE BRANCHES THAT CONFLICT WITH MINIMUM ADA CLEARANCE.
7. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT FROM DETENTION PONDS AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
8. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.
9. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEEDED AS NEEDED.
10. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.
11. ALL TEMPORARY EROSION CONTROL WILL BE REMOVED UPON THE COMPLETION OF CONSTRUCTION.
12. ALL AREAS DAMAGED BY THE CONTRACTOR, INCLUDING BUT NOT LIMITED TO PAVEMENT MARKINGS, ASPHALT, SWALE, SIDEWALK, AND DRIVEWAYS, SHALL BE RESTORED, AT THE CONTRACTOR'S EXPENSE, TO ORIGINAL CONDITION.
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KHA PROJECT 143221005			
DATE 05/15/2024			
SCALE AS SHOWN	DESIGNED BY TS	DRAWN BY DG	CHECKED BY SV

DEMOLITION AND EROSION CONTROL PLAN

SW RANCHES GREEN MEADOWS DRAINAGE

PREPARED FOR
TOWN OF SOUTHWEST RANCHES
SOUTHWEST RANCHES FLORIDA

SHEET NUMBER
C200.8

ADD ALT. 1

Plotted By:Bezner, Elana Sheet Set:SW Ranches Green Meadows Drainage Layout:C200.8 Demolition and Erosion Plan May 17, 2024 09:02:58am K:\Ftl_civil\143 Jobs\143221005 sw ranches green meadows drainage\CAD\plansheets\C200.1 Demolition and Erosion Control Plan.dwg
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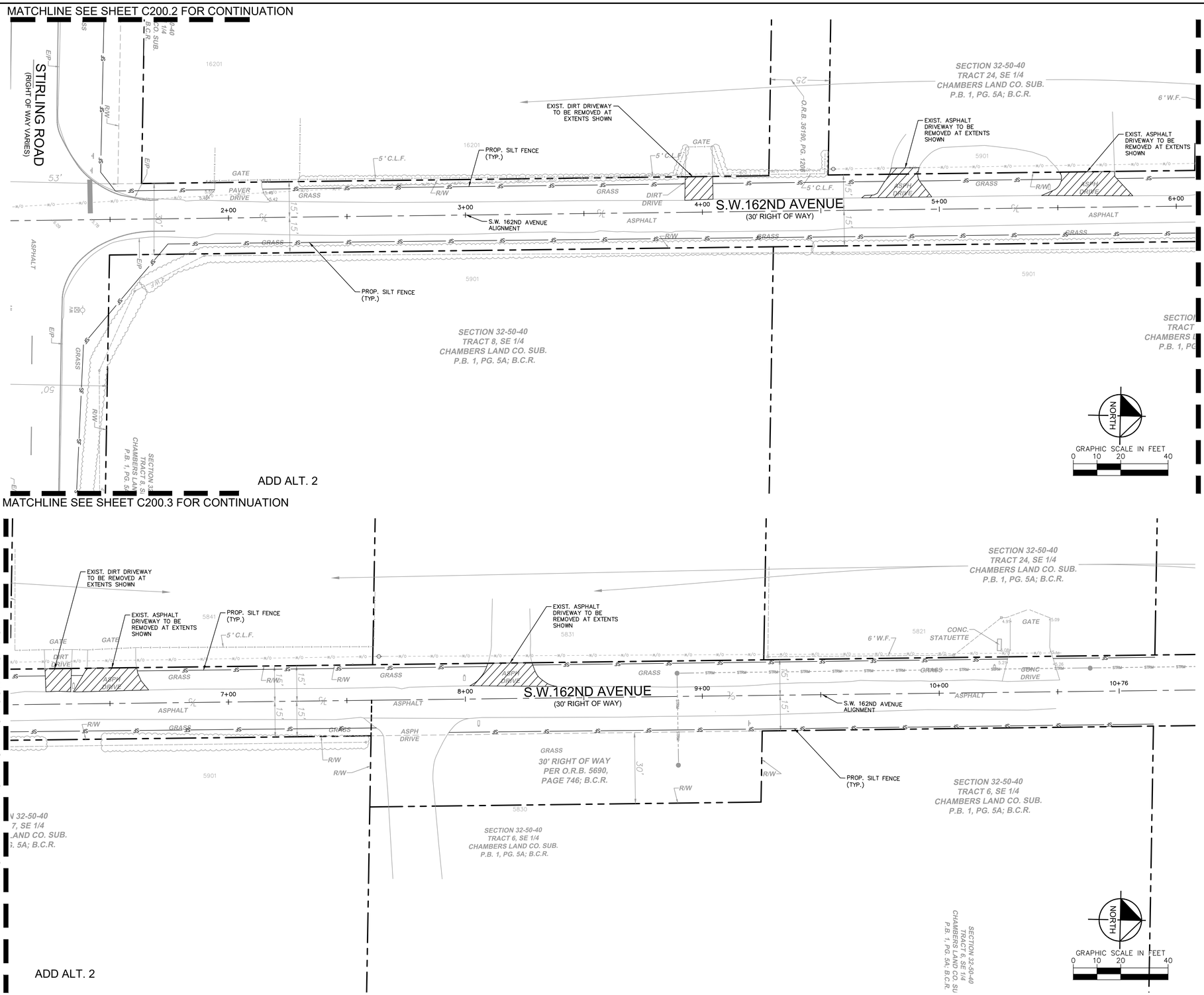

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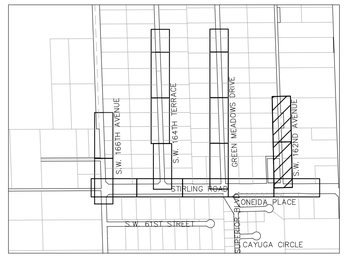

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DEMOLITION AND EROSION CONTROL PLAN

SW RANCHES GREEN MEADOWS DRAINAGE
PREPARED FOR
TOWN OF SOUTHWEST RANCHES
SOUTHWEST RANCHES FLORIDA

SHEET NUMBER
C200.9

Plotted By:Betiner, Eliana Sheet Set:SW Ranches Green Meadows Drainage Layout:C200.9 Demolition and Erosion Plan May 17, 2024 09:03:08am K:\Ftl_civil\143 Jobs\143221005 sw ranches green meadows drainage\CAD\plansheets\C200.1 Demolition and Erosion Control Plan.dwg
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A. BEST MANAGEMENT PRACTICES (BMPS)

1. THIS PLAN HAS BEEN PREPARED TO ENSURE COMPLIANCE WITH APPROPRIATE CONDITIONS OF THE BROWARD COUNTY LAND DEVELOPMENT REGULATIONS, THE RULES OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP), CHAPTER 17-25, F.A.C., THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD), CHAPTER 40D-4, F.A.C. AND THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA) DOCUMENT NO. EPA 832/R-92-005 (SEPTEMBER 1992). THE PLAN ADDRESSES THE FOLLOWING:
   a. PREVENT LOSS OF SOIL DURING CONSTRUCTION BY STORMWATER RUNOFF AND/OR WIND EROSION, INCLUDING PROTECTING TOPSOIL BY STOCKPILING FOR REUSE.
   b. SEDIMENTION PROTECTION OF STORM SEWER OR RECEIVING STREAM.
   c. PREVENT POLLUTING THE AIR WITH DUST AND PARTICULATE MATTER. THE VARIOUS TECHNIQUES OR ACTIONS IDENTIFIED UNDER EACH SECTION INDICATE THE APPROPRIATE SITUATION WHEN THE TECHNIQUES SHOULD BE EMPLOYED. ALSO IDENTIFIED IS A CROSS-REFERENCE TO A DIAGRAM OR FIGURE REPRESENTING THE TECHNIQUE. IT SHOULD BE NOTED THAT THE MEASURES IDENTIFIED ON THIS PLAN ARE ONLY SUGGESTED BMP(S). THE CONTRACTOR SHALL PROVIDE POLLUTION PREVENTION AND EROSION CONTROL MEASURES AS SPECIFIED IN ACCORDANCE WITH THE CURRENT FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS. CONTRACTOR SHALL PREPARE REQUIRED NPDES DOCUMENTATION AND OBTAIN PERMIT PRIOR TO COMMENCEMENT OF CONSTRUCTION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE THE REQUIRED NPDES DOCUMENT AND OBTAIN THE NPDES PERMIT. ALL COST ASSOCIATED WITH SUCH WORK SHALL BE DEEMED INCIDENTAL TO THE PROJECT COST AND SHALL BE INCLUDED IN THE BID.

B. GENERAL EROSION CONTROL NOTES

1. THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS COMPRISED OF THESE EROSION CONTROL DRAWINGS, THE STANDARD DETAILS, THE NPDES PERMIT (TO BE OBTAINED BY CONTRACTOR) AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
2. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THIS DRAWING AND THE STATE OF FLORIDA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.
3. CONTRACTOR SHALL OBTAIN ANY NECESSARY DEWATERING PERMITS AS SITE CONDITIONS AND CONSTRUCTION ACTIVITIES REQUIRE.
4. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES (BMP) IN ALL CONSTRUCTION ACTIVITIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
   a. FUEL SPILLS AND LEAKS PREVENTION
   b. PREVENT/REDUCE VEHICLE AND EQUIPTMENT WASHING AND STEAM CLEANING
   c. VEHICLE AND EQUIPTMENT MAINTENANCE AND REPAIR
   d. PROPER OUTDOOR LOADING/UNLOADING OF MATERIALS
   e. PREVENT/REDUCE OUTDOOR STORAGE OF RAW MATERIALS, PRODUCTS, AND BY-PRODUCTS
   f. SOLID WASTE MANAGEMENT
   g. HAZARDOUS WASTE MANAGEMENT
   h. CONCRETE WASTE MANAGEMENT
   i. SANDBLASTING WASTE MANAGEMENT
   j. STRUCTURE CONSTRUCTION AND PAINTING
   k. SPILL PREVENTION AND CONTROL
   l. CONTAMINATED SOIL MANAGEMENT
   m. SANITARY/SEPTIC WASTE MANAGEMENT
   n. SOIL EROSION CONTROL
   o. STORM WATER TURBIDITY MANAGEMENT
5. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
6. BEST MANAGEMENT PRACTICES (BMPS) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.
7. SITE MAP MUST CLEARLY DELINEATE ALL STATE WATERS. CONTRACTOR MUST MAINTAIN ALL PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS ON SITE AT ALL TIMES.
8. CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
9. CONTRACTOR SHALL BEGIN CLEARING AND GRUBBING THOSE PORTIONS OF THE SITE NECESSARY TO IMPLEMENT PERIMETER CONTROL MEASURES. CLEARING AND GRUBBING FOR THE REMAINING PORTIONS OF THE PROPOSED SITE SHALL COMMENCE ONCE PERIMETER CONTROLS ARE IN PLACE. PERIMETER CONTROLS SHALL BE ACTIVELY MAINTAINED UNTIL SAID AREAS HAVE BEEN STABILIZED AND SHALL BE REMOVED ONCE FINAL STABILIZATION IS COMPLETE.
10. GENERAL EROSION CONTROL BMPS SHALL BE EMPLOYED TO MINIMIZE SOIL EROSION AND POTENTIAL LAKE SLOPE CAVE-INS. WHILE THE VARIOUS TECHNIQUES REQUIRED WILL BE SITE AND PLAN SPECIFIC, THEY SHOULD BE EMPLOYED AS SOON AS POSSIBLE DURING CONSTRUCTION.
11. ON-SITE & OFF-SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
12. SURFACE WATER QUALITY SHALL BE MAINTAINED BY EMPLOYING THE FOLLOWING BMP'S IN THE CONSTRUCTION PLANNING AND CONSTRUCTION OF ALL IMPROVEMENTS.
13. IT SHOULD BE NOTED THAT THE MEASURE IDENTIFIED ON THIS PLAN ARE ONLY SUGGESTED BMP(S). THE CONTRACTOR SHALL PROVIDE POLLUTION PREVENTION AND EROSION CONTROL MEASURES AS NECESSARY TO CONFORM TO CURRENT CITY, FDEP AND SFWMD CODES AND SPECIFICATIONS.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF ANY EROSION OR WATER QUALITY PROBLEMS THAT RESULT FROM THE CONSTRUCTION ACTIVITIES.

C. STORM WATER EROSION CONTROL PRACTICES

1. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT FROM DETENTION PONDS AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
2. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
3. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (COMPOST SOCK DEVICES, ETC.) TO PREVENT EROSION.
4. WHERE PRACTICAL, STORMWATER SHALL BE CONVEYED BY SWALES.
5. EROSION CONTROL MEASURES SHALL BE EMPLOYED TO MINIMIZE TURBIDITY OF SURFACE WATERS LOCATED DOWNSTREAM OF ANY CONSTRUCTION ACTIVITY. WHILE THE VARIOUS MEASURES REQUIRED WILL BE SITE SPECIFIC, THEY SHALL BE EMPLOYED AS NEEDED IN ACCORDANCE WITH THE FOLLOWING:
   a. IN GENERAL, EROSION SHALL BE CONTROLLED AT THE FURTHEST PRACTICAL UPSTREAM LOCATION.
   b. STORMWATER INLETS SHALL BE PROTECTED DURING CONSTRUCTION. PROTECTION MEASURES SHALL BE EMPLOYED AS SOON AS PRACTICAL DURING THE VARIOUS STAGES OF INLET CONSTRUCTION. SILT BARRIERS SHALL REMAIN IN PLACE UNTIL SODDING AROUND INLETS IS COMPLETE.
   c. WHEN NEEDED A TEMPORARY SEDIMENT TRAP SHOLD BE CONSTRUCTED TO DETAIN SEDIMENT-LADEN RUNOFF FROM DISTURBED AREAS.
6. SILT BARRIERS, ANY SILT WHICH ACCUMULATES BEHIND THE BARRIERS, AND ANY FILL USED TO ANCHOR THE BARRIERS SHALL BE REMOVED PROMPTLY AFTER THE END OF THE MAINTENANCE PERIOD SPECIFIED FOR THE BARRIERS.
7. SLOPES OF BANKS OF RETENTION/DETENTION PONDS SHALL BE CONSTRUCTED NOT STEEPER THAN 3H:1V FROM TOP OF BANK TO TWO FEET BELOW NORMAL WATER LEVEL, AS APPLICABLE.
8. SOD SHALL BE PLACED FOR A 2-FOOT WIDE STRIP ADJOINING ALL CURBING AND AROUND ALL INLETS. SOD SHALL BE PLACED BEFORE SILT BARRIERS ARE REMOVED.
9. WHERE REQUIRED TO PREVENT EROSION FROM SHEET FLOW ACROSS BARE GROUND FROM ENTERING A LAKE OR SWALE, A TEMPORARY SEDIMENT SUMP SHALL BE CONSTRUCTED.
10. FILTER FABRIC SHOULD BE USED FOR STORM DRAIN INLET PROTECTION BEFORE FINAL STABILIZATION.
11. FLOATING TURBIDITY BARRIERS SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND INSTALLATION OF DRAINAGE OUTFALL PIPE AND ENDWALL.
12. EXISTING DRAINAGE FLOW PATTERNS AND POSITIVE DRAINAGE TO EXISTING OUTFALLS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
13. ALL NEW INLETS INSTALLED UNDER THIS PROJECT SHALL RECEIVE IN LET PROTECTION.

D. WIND EROSION CONTROL PRACTICES

1. WIND EROSION SHALL BE CONTROLLED BY EMPLOYING THE FOLLOWING METHODS AS NECESSARY AND APPROPRIATE:
   a. BARE EARTH AREAS SHALL BE WATERED DURING CONSTRUCTION AS NECESSARY TO MINIMIZE THE TRANSPORT OF FUGITIVE DUST. IT MAY BE NECESSARY TO LIMIT CONSTRUCTION VEHICLE SPEED IF BARE EARTH HAS NOT BEEN EFFECTIVELY WATERED. IN NO CASE SHALL FUGITIVE DUST BE ALLOWED TO LEAVE THE SITE UNDER CONSTRUCTION.
   b. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HASPERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED (SEE PERMANENT STABALIZATION PRACTICES FOR DETAILS). THESE AREAS SHALL BE SEEDED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN. CLEARED SITE DEVELOPMENT AREAS NOT CONTINUALLY SCHEDULED FOR CONSTRUCTION ACTIVITIES SHALL BE COVERED WITH HAY OR OVERSEEDED AND PERIODICALLY WATERED SUFFICIENTLY TO STABILIZE THE TEMPORARY GROUNDCOVER (SEE TEMPORARY STABALIZATION PRACTICES FOR DETAILS).
   c. AT ANY TIME BOTH DURING AND AFTER SITE CONSTRUCTION THAT WATERING AND/OR VEGETATION ARE NOT EFFECTIVE IN CONTROLLING WIND EROSION AND/OR TRANSPORT OF FUGITIVE DUST, OTHER METHODS AS ARE NECESSARY FOR SUCH CONTROL SHALL BE EMPLOYED. THESE METHODS SHOULD INCLUDE ERECTION OF DUST CONTROL FENCES. A 6-FT GEOTEXTILE FILTER FIBER SHOULD BE HANGING AGAINST THE EXISTING CHAIN LINK FENCE AND GATE.
2. ALL DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.

E. STABILIZATION PRACTICES

1. SHALL BE IN ACCORDANCE WITH DEP DOCUMENT NO 62-621.300(4)(a).
2. DISTURBED PORTIONS OF SITE WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASE FOR AT LEAST 21 DAYS, SHALL BE STABILIZED WITH TEMPORARY SEED AND MULCH NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY IN THAT AREA.
3. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY PERMANENTLY CEASE SHALL BE STABILIZED WITH SOD NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY.

F. STRUCTURAL PRACTICES

1. SHALL BE IN ACCORDANCE WITH DEP DOCUMENT NO 62-621.300(4)(a)

G. WASTE DISPOSAL

1. WASTE MATERIALS – ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN A METAL DUMPSTER WITH A SECURE LID IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN THE DUMPSTER. THE SUPERINTENDENT SHALL COORDINATE WITH THE LOCAL UTILITIES TO HAVE THE DUMPSTER EMPTIED AT LEAST TWICE A WEEK AND THE WASTE TAKEN TO AN APPROPRIATE LANDFILL. NO CONSTRUCTION WASTE MATERIALS SHALL BE BURIED ON SITE. THE SUPERINTENDENT SHALL ORGANIZE TRAINING FOR THE EMPLOYEES IN THE PROPER PRACTICES WHEN DEALING WITH WASTE MATERIALS. THE SUPERINTENDENT SHALL BE RESPONSIBLE FOR POSTING AND ENFORCING WASTE MATERIAL PROCEDURES.
2. HAZARDOUS WASTE – HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS OR AS DIRECTED BY THE MANUFACTURER. THE SUPERINTENDENT SHALL ORGANIZE THE PROPER TRAINING FOR EMPLOYEES IN THE PROPER PRACTICES WHEN DEALING WITH HAZARDOUS WASTE MATERIALS. THESE PROCEDURES SHALL BE POSTED ON THE SITE. THE PERSON WHO MANAGES THE SITE SHALL BE RESPONSIBLE FOR ENFORCING THE PROCEDURES.
3. SANITARY WASTE – SANITARY WASTE SHALL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS. THE SUPERINTENDENT SHALL COORDINATE WITH THE LOCAL UTILITY FOR COLLECTION OF THE SANITARY WASTE AT LEAST THREE TIMES A WEEK TO PREVENT SPILLAGE ONTO THE SITE.
4. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.

H. OFFSITE TRACKING

1. STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROVIDED TO REDUCE SEDIMENT TRACKING OFFSITE. THE MAJOR ROAD CONNECTED TO THE PROJECT SHALL BE CLEANED ONCE A DAY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK RESULTING FROM CONSTRUCTION TRAFFIC. ALL TRUCKS HAULING MATERIALS OFFSITE SHALL BE COVERED WITH A TARPAULIN.
2. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT AND MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATION PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES. HEAVY CONSTRUCTION EQUIPMENT PARKING AND MAINTENANCE AREAS SHALL BE DESIGNED TO PREVENT OIL, GREASE, AND LUBRICANTS FROM ENTERING SITE DRAINAGE FEATURES INCLUDING STORMWATER COLLECTION AND TREATMENT SYSTEMS. CONTRACTORS SHALL PROVIDE BROAD DIKES, HAY BALES OR SILT SCREENS AROUND, AND SEDIMENT SUMPS WITHIN, SUCH AREAS AS REQUIRED TO CONTAIN SPILLS OF OIL, GREASE OR LUBRICANTS. CONTRACTORS SHALL HAVE AVAILABLE, AND SHALL USE, ABSORBENT FILTER PADS TO CLEAN UP SPILLS AS SOON AS POSSIBLE AFTER OCCURRENCE.
3. ALL WASH WATER FROM CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC. SHALL BE DETAINED ON SITE AND SHALL BE PROPERLY TREATED OR DISPOSED.
4. IF THE ACTION OF VEHICLES TRACKING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.
5. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

I. MAINTENANCE

1. ALL MEASURES STATED ON THIS EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE, ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HRS OF THE END OF A 0.5" RAINFALL EVENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING.
   a. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.
   b. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEEDED AS NEEDED.
   c. THE COMPOST ROCK FILTRATION DEVICE SHALL BE INSPECTED PERIODICALLY FOR HEIGHT OF SEDIMENT AND CONDITION OF DEVICE. COMPOST SOCK SHALL BE REPAIRED TO ITS ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE COMPOST SOCK WHEN IT REACHES ONE-THIRD THE HEIGHT OF THE COMPOST SOCK.
   d. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.
   e. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
   f. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. THE SEDIMENT BASINS/DITCHES SHALL BE CHECKED MONTHLY FOR DEPTH OF SEDIMENT. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 10% AND AFTER CONSTRUCTION IS COMPLETE.
   g. ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER BUT IN NO CASE LATER THAN SEVEN CALENDAR DAYS FOLLOWING THE INSPECTION.DIVERSION DIKES SHALL BE INSPECTED MONTHLY. ANY BREACHES SHALL BE PROMPTLY REPAIRED.
   h. A MAINTENANCE REPORT SHALL BE COMPLETED DAILY AFTER EACH INSPECTION OF THE SEDIMENT AND EROSION CONTROL METHODS. THE REPORTS SHALL BE FILED IN AN ORGANIZED MANNER AND RETAINED ON-SITE DURING CONSTRUCTION. AFTER CONSTRUCTION IS COMPLETED, THE REPORTS SHALL BE SAVED FOR AT LEAST THREE YEARS. THE REPORTS SHALL BE AVAILABLE FOR ANY AGENCY THAT HAS JURISDICTION OVER EROSION CONTROL.
   i. ALL REPAIRS MUST BE MADE WITHIN 24 HOURS OF REPORT.
   j. THE SUPERINTENDENT SHALL ORGANIZE THE TRAINING FOR INSPECTION PROCEDURES AND PROPER EROSION CONTROL METHODS FOR EMPLOYEES THAT COMPLETE INSPECTIONS AND REPORTS.
   k. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.
2. THE EROSION CONTROL FEATURES INSTALLED BY THE CONTRACTOR SHALL BE ACCEPTABLY MAINTAINED BY THE CONTRACTOR DURING THE CONSTRUCTION PERIOD.

J. SPILL PREVENTION AND CONTROL

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

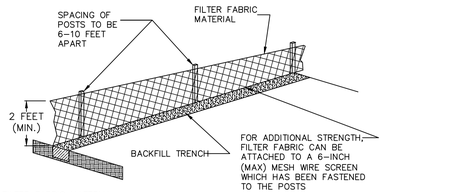
1. GOOD HOUSEKEEPING
   a. SUPERINTENDENT SHALL INSPECT PROJECT AREA DAILY FOR PROPER STORAGE, USE, AND DISPOSAL OF CONSTRUCTION MATERIALS.
   b. STORE ONLY ENOUGH MATERIAL ON SITE FOR PROJECT COMPLETION.
   c. ALL SUBSTANCES SHOULD BE USED BEFORE DISPOSAL OF CONTAINER.
   d. ALL CONSTRUCTION MATERIALS STORED SHALL BE ORGANIZED AND IN THE PROPER CONTAINER AND IF POSSIBLE, STORED UNDER A ROOF OR PROTECTIVE COVER.
   e. PRODUCTS SHALL NOT BE MIXED UNLESS DIRECTED BY THE MANUFACTURER.
   f. ALL PRODUCTS SHALL BE USED AND DISPOSED OF ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
   g. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
2. HAZARDOUS PRODUCTS
   a. MATERIALS SHOULD BE KEPT IN ORIGINAL CONTAINER WITH LABELS UNLESS THE ORIGINAL CONTAINERS CANNOT BE RESEALED. IF ORIGINAL CONTAINERS CANNOT BE USED, LABELS AND PRODUCT INFORMATION SHALL BE SAVED.
   b. PROPER DISPOSAL PRACTICES SHALL ALWAYS BE FOLLOWED IN ACCORDANCE WITH MANUFACTURER AND LOCAL/STATE REGULATIONS.
3. PRODUCT SPECIFIC PRACTICES
   a. PETROLEUM PRODUCTS MUST BE STORED IN PROPER CONTAINERS AND CLEARLY LABELED. VEHICLES CONTAINING PETROLEUM PRODUCTS SHALL BE PERIODICALLY INSPECTED FOR LEAKS. PRECAUTIONS SHALL BE TAKEN TO AVOID LEAKAGE OF PETROLEUM PRODUCTS ON SITE.
   b. THE MINIMUM AMOUNT OF FERTILIZER SHALL BE USED AND MIXED INTO THE SOIL IN ORDER TO LIMIT EXPOSURE TO STORM WATER. FERTILIZERS SHALL BE STORED IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER SHALL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.
   c. PAINT CONTAINERS SHALL BE SEALED AND STORED WHEN NOT IN USE. EXCESS PAINT MUST BE DISPOSED OF IN AN APPROVED MANNER.
   d. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.
   e. CONCRETE TRUCKS SHALL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.

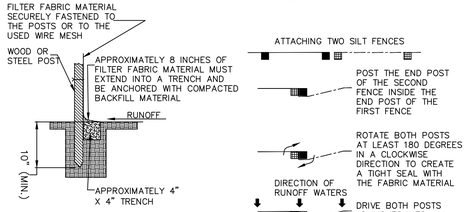
K. SPILL CLEAN UP

1. IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED ABOVE, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:
   a. SPILL CLEANUP INFORMATION SHALL BE POSTED ON SITE TO INFORM EMPLOYEES ABOUT CLEANUP PROCEDURES AND RESOURCES.
   b. THE FOLLOWING CLEAN-UP EQUIPMENT MUST BE KEPT ON-SITE NEAR THE MATERIAL STORAGE AREA: GLOVES, MOPS, RAGS, BROOMS, DUST PANS, SAND, SAWDUST, LIQUID ABSORBER, GOGGLES, AND TRASH CONTAINERS.
   c. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ONSITE AND READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
   d. ALL SPILLS SHALL BE CLEANED UP AS SOON AS POSSIBLE.
   e. WHEN CLEANING A SPILL, THE AREA SHOULD BE WELL VENTILATED AND THE EMPLOYEE SHALL WEAR PROPER PROTECTIVE COVERING TO PREVENT INJURY.
   f. TOXIC SPILLS MUST BE REPORTED TO THE PROPER AUTHORITY REGARDLESS OF THE SIZE OF THE SPILL.
   g. AFTER A SPILL, THE PREVENTION PLAN SHALL BE REVIEWED AND CHANGED TO PREVENT FURTHER SIMILAR SPILLS FROM OCCURRING. THE CAUSE OF THE SPILL, MEASURES TO PREVENT IT, AND HOW TO CLEAN THE SPILL UP SHALL BE RECORDED.
   h. THE SUPERINTENDENT SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR AND IS RESPONSIBLE FOR THE DAY TO DAY SITE OPERATIONS. THE SUPERINTENDENT ALSO OVERSEES THE SPILL PREVENTION PLAN AND SHALL BE RESPONSIBLE FOR EDUCATING THE EMPLOYEES ABOUT SPILL PREVENTION AND CLEANUP PROCEDURES.

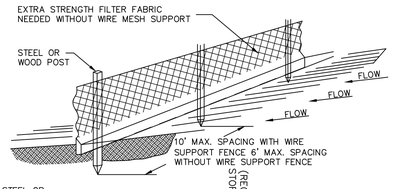
L. SEQUENCE OF CONSTRUCTION

1. UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAY DOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.
   a. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE, AND INSTALL INLET PROTECTION, TURBIDITY BARRIERS, AND SILT FENCE
   b. DEMOLISH EXISTING STRUCTURES, (IF APPLICABLE)
   c. INSTALL AND STABILIZE ANY NECESSARY HYDRAULIC CONTROL STRUCTURES (DIKES, CHECK DAMS, OUTLET TRAPS, ETC.)
   d. PREPARE CLEARING AND GRUBBING OF THE SITE, (IF APPLICABLE)
   e. PERFORM MASS GRADING, ROUGH GRADE TO ESTABLISH PROPOSED DRAINAGE PATTERNS
   f. TEMPORARILY SEED, THROUGHOUT CONSTRUCTION, DISTURBED AREAS THAT WILL BE INACTIVE FOR 7 DAYS OR MORE AS REQUIRED BY GENERIC PERMIT
2. IN THE EVENT OF BMP ISSUES, HALT ALL ACTIVITIES AND CONTACT THE CIVIL ENGINEER CONSULTANT TO PERFORM INSPECTION AND CERTIFICATION OF BMPS. GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT STORM WATER PRE-CONSTRUCTION MEETING WITH ENGINEER AND ALL GROUND DISTURBING CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.
3. CONTRACTOR TO BE RESPONSIBLE FOR OBTAINING ALL DEWATERING PERMITS NECESSARY FOR CONSTRUCTION.





SILT FENCE INSTALLATION DETAIL
NOT TO SCALE



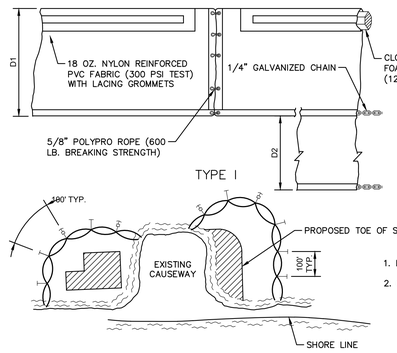
STANDARD DETAIL
TRENCH WITH NATIVE BACKFILL

ALTERNATE DETAIL
TRENCH WITH GRAVEL

NOTE:

1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

SILT FENCE DETAIL
NOT TO SCALE



1. D1=5' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS). D2=5' STD. (ADDITIONAL PANEL FOR DEPTHS 5').
2. CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET. TWO PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

FLOATING TURBIDITY BARRIER
NOT TO SCALE

LEGEND

- PILE LOCATIONS
- DREDGE OR FILL AREA
- MOORING BUOY W/ANCHOR
- ANCHOR
- BARRIER MOVEMENT DUE TO CURRENT ACTION

MATCHLINE SEE SHEET C300.4 FOR CONTINUATION

MATCHLINE SEE SHEET C300.4 FOR CONTINUATION

MATCHLINE SEE SHEET C300.5 FOR CONTINUATION

MATCHLINE SEE BOTTOM LEFT FOR CONTINUATION

MATCHLINE SEE TOP RIGHT FOR CONTINUATION

MATCHLINE SEE SHEET C300.2 FOR CONTINUATION

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

S.W. 166TH AVENUE
(RIGHT OF WAY VARIES)

STIRLING ROAD
(RIGHT OF WAY VARIES)

S.W. 164TH TERRACE
(50' RIGHT OF WAY)

E. LINE SW 1/4 SECTION 32-50-40

PROP. SWALE (TYP.)

BASE BID SWALE TERMINATION POINT

2.75'x2.75' CONC. PILLAR (TYP.)

EXIST. SIGN TO BE RELOCATED 5' FROM EDGE OF PAVEMENT

PROP. INLINE DRAIN INLET CB-15
STA: 7+37.19, -16.56LT
RIM: 5.14'
INV: 1.33 (S) 15" ADS PIPE A2000

PROP. LIMEROCK DRIVEWAY

PROP. 41 LF OF 15" ADS Pipe A2000

PROP. INLINE DRAIN INLET CB-16
STA: 6+96.07, -16.96LT
RIM: 5.14'
INV: 1.33 (N) 15" ADS PIPE A2000

SW 166TH AVE ALIGNMENT

ADD. BASE ALT. 3 BID

PROP. CONC. DRIVEWAY

PROP. 64 LF OF 15" ADS Pipe A2000

PROP. 105 LF OF 15" ADS Pipe A2000

PROP. INLINE DRAIN INLET CB-17
STA: 2+01.93, 37.95RT
RIM: 5.05'
INV: 0.71 (E) 15" ADS PIPE A2000

PROP. INLINE DRAIN INLET CB-18
STA: 2+65.58, 38.41RT
RIM: 4.60'
INV: 0.71 (E) 15" ADS PIPE A2000
INV: 0.71 (W) 15" ADS PIPE A2000

PROP. INLINE DRAIN INLET CB-41
STA: 7+54.96, 275.04RT
RIM: 5.38'
INV: 0.81 (E) 15" ADS PIPE A2000
INV: 0.81 (W) 15" ADS PIPE A2000

PROP. HEADWALL AS PER SBDD DESIGN CRITERIA MANUAL 3.7.7
RIM: 0.27
INV: -1.25 (S) 30" RCP

PROP. 4'0" MANHOLE AS PER FDOT STANDARD INDEX 425-010 W/ REMOVABLE PRB (N)
MH-1
STA: 4+72.69, -37.67LT
RIM: 4.04'
INV: 0.49 (E) 12" ADS PIPE A2000
INV: 0.81 (W) 15" ADS PIPE A2000
INV: -1.17 (N) 30" RCP

PROP. REVERTMENT FABRI-FORM MAT TO BE INSTALLED

PROP. INLINE DRAIN INLET CB-40
STA: 3+41.32, -37.74LT
RIM: 4.27'
INV: 0.81 (E) 15" ADS PIPE A2000
INV: 1.17 (W) 15" ADS PIPE A2000

LOT 1 - BLOCK 2
GREEN MEADOWS SECTION TWO
P.B. 86, PG. 28; B.C.R.

6' METAL FENCE

GATE

PROP. INLINE DRAIN INLET CB-39
STA: 2+95.56, -38.17LT
RIM: 4.64'
INV: 1.17 (E) 15" ADS PIPE A2000

BASE BID: PROP. SWALE (TYP.)

PROP. 46 LF OF 15" ADS Pipe A2000

PROP. 81 LF OF 15" ADS Pipe A2000

EXIST. MAILBOX TO REMAIN AND BE PROTECTED (TYP.)

PROP. CONC. DRIVEWAY

PROP. SWALE (TYP.)

PROP. 50 LF OF 15" ADS Pipe A2000

PROP. 15 LF OF 30" RCP

PROP. 44 LF OF 12" ADS Pipe A2000

PROP. INLINE DRAIN INLET CB-42
STA: 7+52.06, 369.18RT
RIM: 5.55'
INV: 0.81 (E) 15" ADS PIPE A2000
INV: 0.71 (W) 12" ADS PIPE A2000

PROP. 65 LF OF 15" ADS Pipe A2000

CONTRACTOR TO REGRADE SWALE PER DETAIL IN SHEET C301.10

12% MAX

PROP. SWALE (TYP.)

PROP. 102 LF OF 15" ADS Pipe A2000

PROP. INLINE DRAIN INLET CB-19
STA: 3+71.06, 38.92RT
RIM: 4.82'
INV: 0.71 (W) 15" ADS PIPE A2000
INV: 0.71 (E) 15" ADS PIPE A2000

PROP. INLINE DRAIN INLET CB-20
STA: 4+72.75, 40.27RT
RIM: 4.58'
INV: 0.80 (E) 15" ADS PIPE A2000
INV: 0.10 (W) 15" ADS PIPE A2000

PROP. ASPHALT DRIVEWAY

STIRLING ROAD ALIGNMENT

ADD. ALT. 1: PROP. SWALE (TYP.)

ADD. ALT. 1: PROP. 277 LF OF 15" ADS Pipe A2000

EXIST. SIGN TO BE REMOVED FOR PIPE INSTALLATION AND REINSTALLED IN ORIGINAL LOCATION

BASE BID: PROP. INLINE DRAIN INLET CB-47
STA: 8+47.39, -38.79LT
RIM: 4.74'
INV: 1.67 (NW) 15" ADS PIPE A2000
INV: 1.57 (E) 15" ADS PIPE A2000

PROP. INLINE DRAIN INLET CB-46
STA: 1+58.64, 19.67RT
RIM: 4.66'
INV: 2.26 (W) 15" ADS PIPE A2000
INV: 1.67 (SE) 15" ADS PIPE A2000
INV: 0.68 (N) 15" ADS PIPE A2000

PROP. 40 LF OF 15" ADS Pipe A2000

ADD. ALT. 1 SWALE TERMINATION POINT

PROP. 107 LF OF 15" ADS Pipe A2000

PROP. 6" SOLID WHITE

PROP. INLINE DRAIN INLET CB-45
STA: 1+71.44, -18.29LT
RIM: 4.67'
INV: 2.17 (SW) 15" ADS PIPE A2000
INV: 2.26 (E) 15" ADS PIPE A2000

PROP. INLINE DRAIN INLET CB-44
STA: 7+42.34, -37.56LT
RIM: 4.90'
INV: 2.17 (NE) 15" ADS PIPE A2000
INV: 0.81 (W) 15" ADS PIPE A2000

PROP. 46 LF OF 15" ADS Pipe A2000

LOT 32 - BLOCK 2
GREEN MEADOWS SECTION TWO
P.B. 86, PG. 28; B.C.R.

PROP. 138 LF OF 15" ADS Pipe A2000

PROP. 40 LF OF 15" ADS Pipe A2000

PROP. INLINE DRAIN INLET CB-43
STA: 6+04.44, -37.62LT
RIM: 5.61'
INV: 0.81 (E) 15" ADS PIPE A2000
INV: 0.81 (W) 15" ADS PIPE A2000

SW 164TH TERRACE ALIGNMENT

NORTHING: 622214.18
EASTING: 863805.28

PROP. INLINE DRAIN INLET CB-21
STA: 5+37.84, 40.58RT
RIM: 4.30'
INV: 0.80 (W) 15" ADS PIPE A2000

PROP. 42 LF OF 15" ADS Pipe A2000

PROP. INLINE DRAIN INLET CB-22
STA: 6+92.46, 41.33RT
RIM: 4.74'
INV: 0.91 (E) 15" ADS PIPE A2000

PROP. INLINE DRAIN INLET CB-23
STA: 7+33.95, 43.56RT
RIM: 4.71'
INV: 0.91 (W) 15" ADS PIPE A2000

BASE BID SWALE TERMINATION POINT

ADD. ALT. 3 PROP. INLINE DRAIN INLET CB-24
STA: 9+29.93, 38.23RT
RIM: 4.81'
INV: 1.03 (E) 15" ADS PIPE A2000

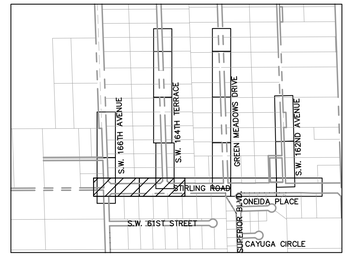
PROP. INLINE DRAIN INLET CB-25
STA: 9+71.95, 38.33RT
RIM: 5.66'
INV: 1.03 (W) 15" ADS PIPE A2000
INV: 1.03 (E) 15" ADS PIPE A2000

PROP. INLINE DRAIN INLET CB-26
STA: 10+13.97, 38.44RT
RIM: 4.91'
INV: 1.03 (W) 15" ADS PIPE A2000

PROP. 42 LF OF 15" ADS Pipe A2000

PROP. CONC. DRIVEWAY

KEY MAP



LEGEND

- PROPERTY LINE/ RIGHT-OF-WAY LINE
- EXISTING SANITARY SEWER PIPE
- EXISTING WATER MAIN PIPE
- EXISTING OVERHEAD WIRE
- EXISTING STORM SEWER PIPE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING SIGN
- EXISTING MAILBOX
- EXISTING VALVE
- EXISTING HYDRANT
- EXISTING GRADE
- EXISTING LIGHTPOLE
- PROPOSED STORM MANHOLE
- PROPOSED CATCH BASIN
- PROPOSED SWALE
- PROPOSED PAVEMENT
- PROPOSED LIMEROCK
- PROPOSED TRENCH RESTORATION
- PROPOSED PAVER
- PROPOSED CONCRETE
- PROPOSED DRAIN PIPE

NOTES

1. ALL AREAS DAMAGED BY THE CONTRACTOR, INCLUDING BUT NOT LIMITED TO PAVEMENT MARKINGS, ASPHALT, SWALE, SIDEWALK, AND DRIVEWAYS, SHALL BE RESTORED, AT THE CONTRACTOR'S EXPENSE, TO ORIGINAL CONDITION.
2. CONTRACTOR TO MAINTAIN DRAINAGE FLOW DURING AND AFTER CONSTRUCTION.
3. NO EXISTING TREES SHALL BE REMOVED UNLESS OTHERWISE SPECIFIED.
4. SHOULD ANY EXISTING TREE BE REQUIRED TO BE REMOVED OR RELOCATED BASED ON PROPOSED WORK, CONTRACTOR TO COORDINATE MODIFIED WORK WITH ENGINEER. SHOULD TREE REMOVAL/RELOCATION BE REQUIRED, CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS.
5. ALL EXISTING MAILBOXES IMPACTED BY CONSTRUCTION SHALL BE MODIFIED/RELOCATED AS NECESSARY AT THE CONTRACTOR'S EXPENSE.
6. ALL SIDEWALKS TO BE 4" THICK, EXCEPT THOSE TRAVERSING DRIVEWAYS SHALL BE 6" THICK, AS PER SIDEWALK DETAIL.
7. PROPOSED SIDEWALK SLOPE SHALL NOT EXCEED MAXIMUM CROSS SLOPE OF 2% AND LONGITUDINAL SLOPE OF 5%.
8. ALL SIDEWALK RAMPS AND DETECTABLE WARNINGS TO MEET FDOT STANDARDS.
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STEFANO VIOLA LICENSE No 74655 STATE OF FLORIDA PROFESSIONAL ENGINEER

KHA PROJECT	143221005
DATE	05/15/2024
SCALE	AS SHOWN
DESIGNED BY	TS
DRAWN BY	DG
CHECKED BY	SV

ENGINEERING PLAN

SW RANCHES GREEN MEADOWS DRAINAGE
PREPARED FOR
TOWN OF SOUTHWEST RANCHES
FLORIDA
SOUTHWEST RANCHES

SHEET NUMBER
C300.1

Posted By:Brzner, Elona Sheet Set:SW Ranches Green Meadows Drainage Layout:C300.1 Engineering Plan May 17, 2024 09:04:55am K:\ftl_civil\143_jobs\143221005 sw ranches green meadows drainage\CAD\plansheets\C300.1 Engineering Plan.dwg
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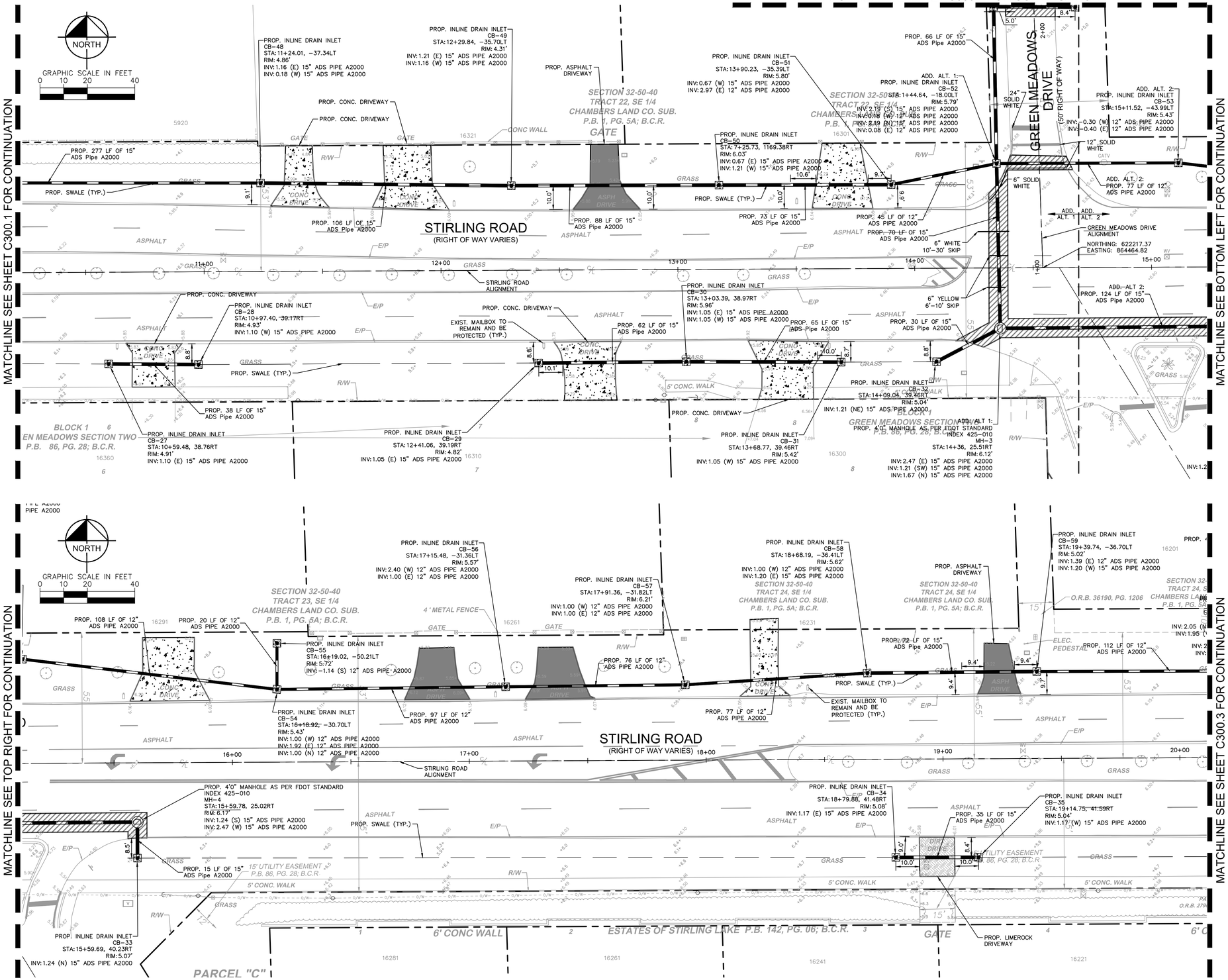
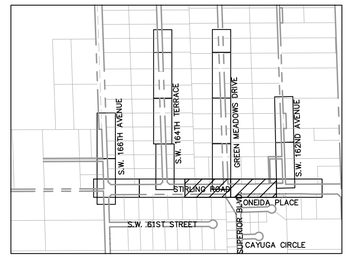


KEY MAP



LEGEND

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- EXISTING HYDRANT
- EXISTING GRADE
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STEFANO VIOLA LICENSE No 74655 STATE OF FLORIDA PROFESSIONAL ENGINEER
DATE: 05/15/2024

KHA PROJECT	143221005
DATE	05/15/2024
SCALE	AS SHOWN
DESIGNED BY	TS
DRAWN BY	DG
CHECKED BY	SV

ENGINEERING PLAN

SW RANCHES GREEN MEADOWS DRAINAGE
PREPARED FOR
TOWN OF SOUTHWEST RANCHES
SOUTHWEST RANCHES FLORIDA

SHEET NUMBER
C300.2

Plotted By:Bezner, Elinor Sheet Set:SW Ranches Green Meadows Drainage Layout:C300.2 Engineering Plan May 17, 2024 09:05:21pm K:\Ftl_civil\143 Jobs\143221005 sw ranches green meadows drainage\Civil\plansheets\C300.1 Engineering Plan.dwg
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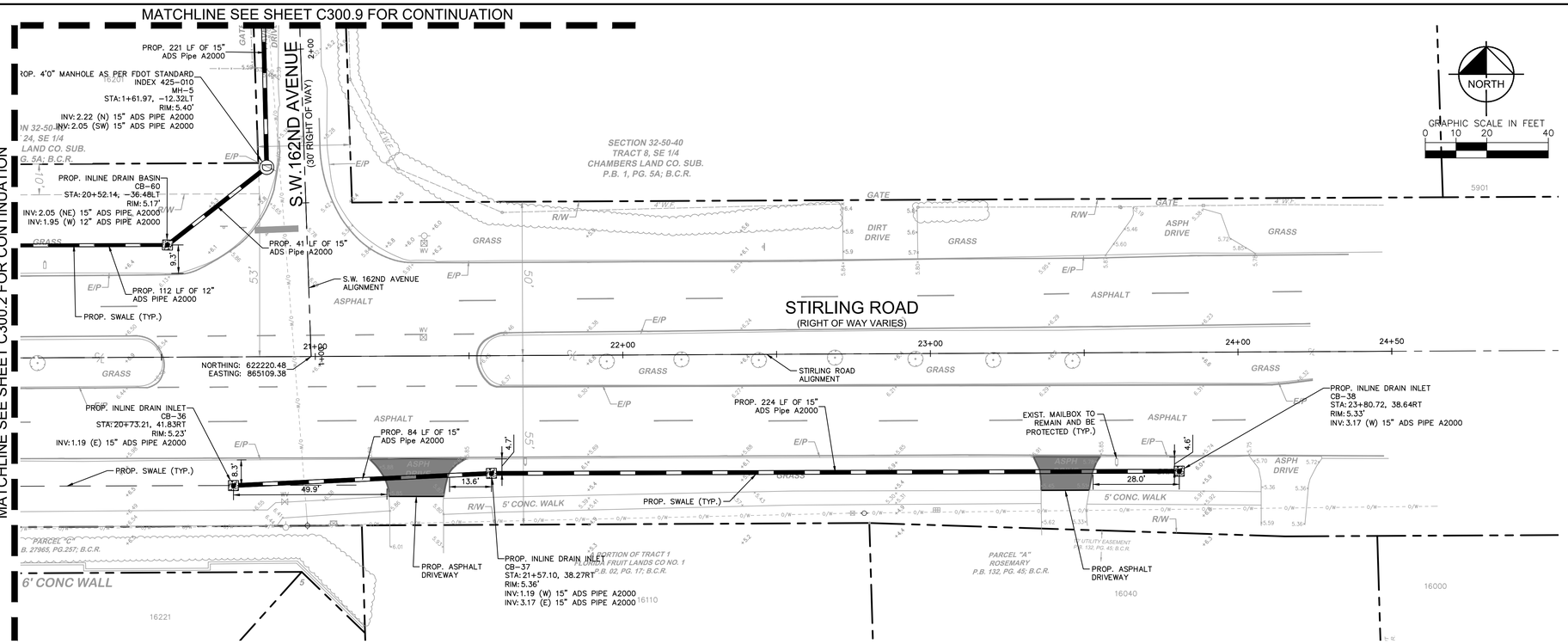

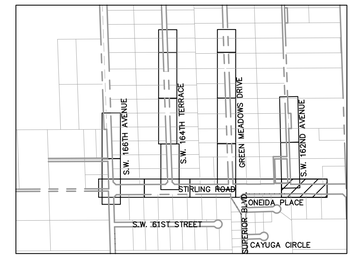

KEY MAP

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STEFANO VIOLA LICENSE NO 74655 STATE OF FLORIDA PROFESSIONAL ENGINEER DATE: 5/15/2024

KHA PROJECT	143221005
DATE	05/15/2024
SCALE	AS SHOWN
DESIGNED BY	TS
DRAWN BY	DG
CHECKED BY	SV

ENGINEERING PLAN

SW RANCHES GREEN MEADOWS DRAINAGE
PREPARED FOR
TOWN OF SOUTHWEST RANCHES
SOUTHWEST RANCHES FLORIDA

SHEET NUMBER
C300.3

Plotted By:Bezmer, Elinor Sheet Set:SW Ranches Green Meadows Drainage Layout:C300.3 Engineering Plan May 17, 2024 09:05:36am K:\tl_sun\143_jobs\143221005 sw ranches green meadows drainage\CAD\plansheets\C300.1 Engineering Plan.dwg
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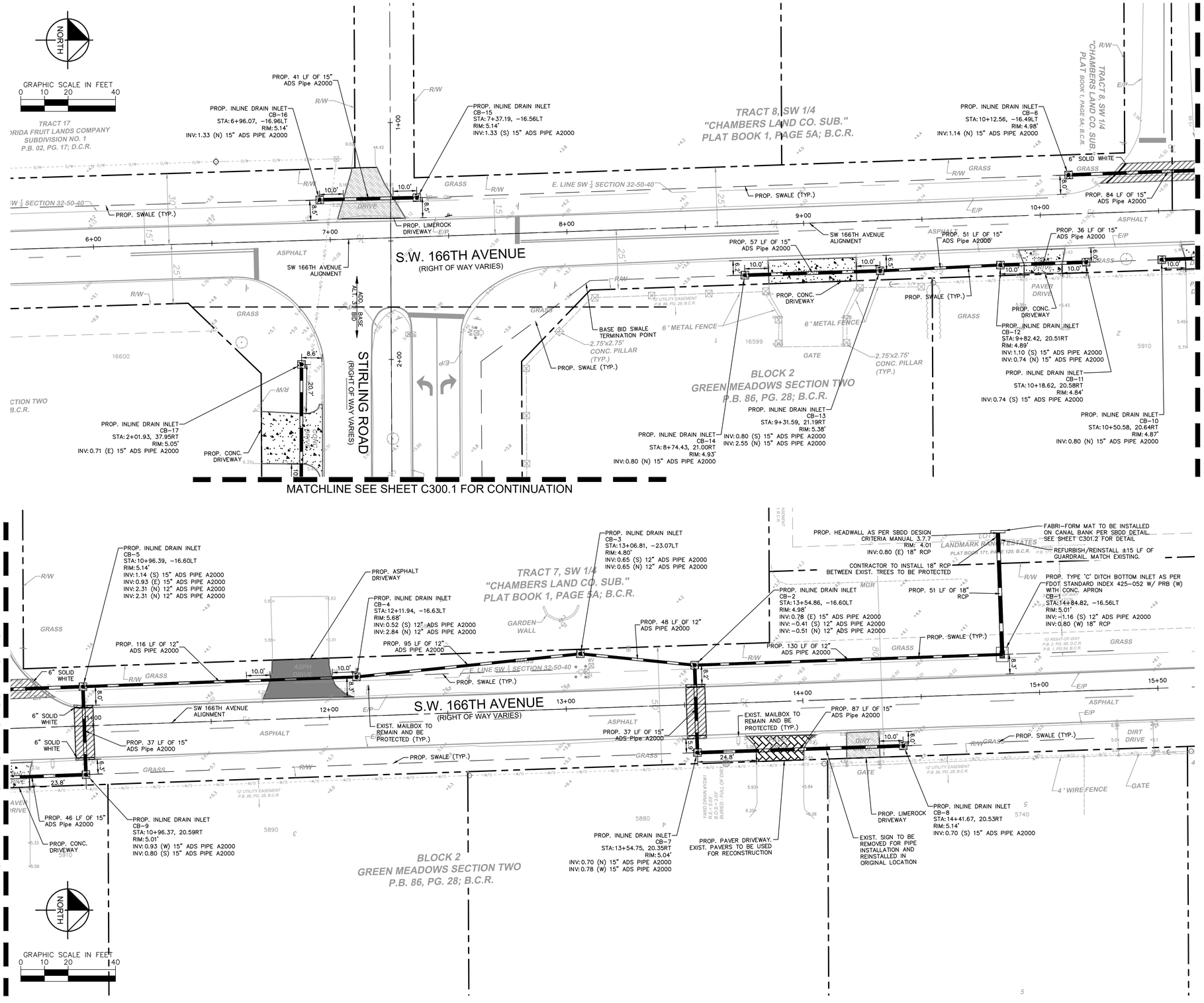
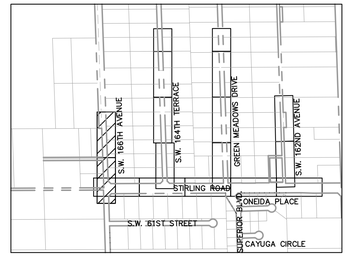


KEY MAP



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STATE OF FLORIDA
No 74655
STEFANO VIOLA
LICENSED PROFESSIONAL ENGINEER
DATE: 5/15/2024

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KHA PROJECT 143221005
DATE 05/15/2024
SCALE AS SHOWN
DESIGNED BY TS
DRAWN BY DG
CHECKED BY SV

ENGINEERING PLAN

SW RANCHES GREEN MEADOWS DRAINAGE

PREPARED FOR
TOWN OF SOUTHWEST RANCHES
SOUTHWEST RANCHES FLORIDA

SHEET NUMBER
C300.4

Plotted By: Bezmer, Elissa Sheet Set: SW Ranches Green Meadows Drainage Layout: C300.4 Engineering Plan May 17, 2024 09:05:58am K:\Ftl_civil\143 Jobs\143221005 sw ranches green meadows drainage\CAD\plansheets\C300.1 Engineering Plan.dwg
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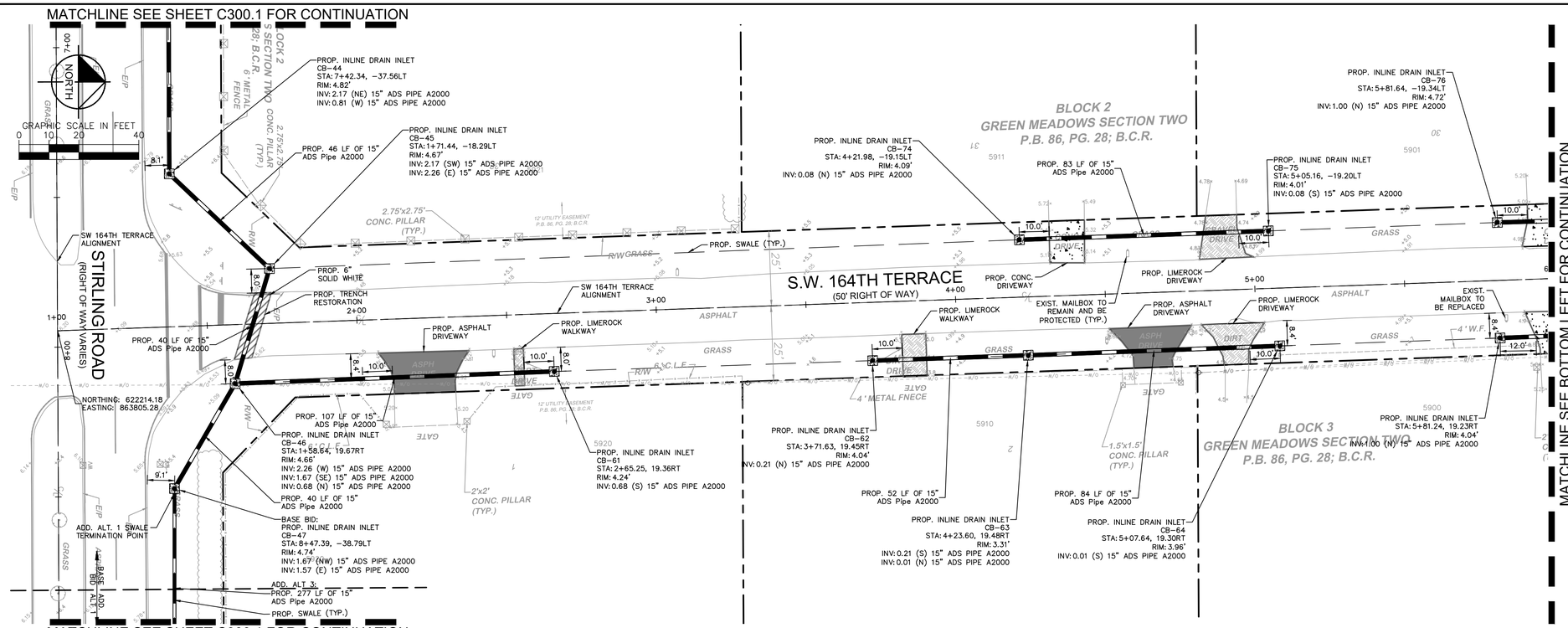
MATCHLINE SEE SHEET C300.1 FOR CONTINUATION



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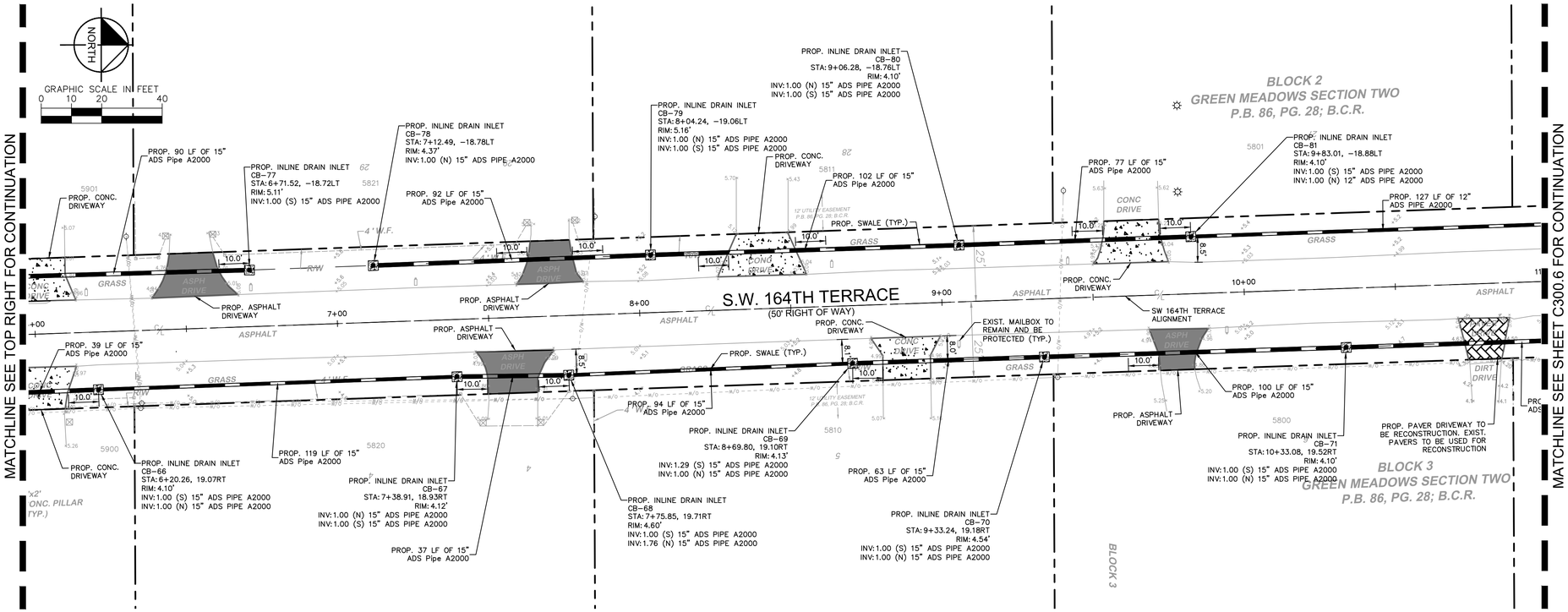
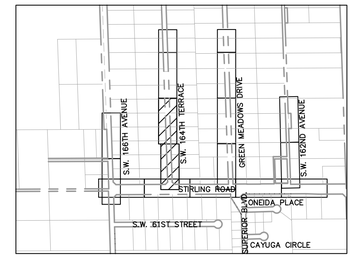


KEY MAP



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KHA PROJECT	143221005
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CHECKED BY	SV

ENGINEERING PLAN

SW RANCHES GREEN MEADOWS DRAINAGE

PREPARED FOR
TOWN OF SOUTHWEST RANCHES
FLORIDA

SOUTHWEST RANCHES

SHEET NUMBER
C300.5

Plotted By:Bezirer, Elinor Sheet Set:SW Ranches Green Meadows Drainage Layout:C300.5 Engineering Plan May 17, 2024 09:06:20am K:\Ftl_civil\143 Jobs\143221005 sw ranches green meadows drainage\CAD\plansheets\C300.5 Engineering Plan.dwg
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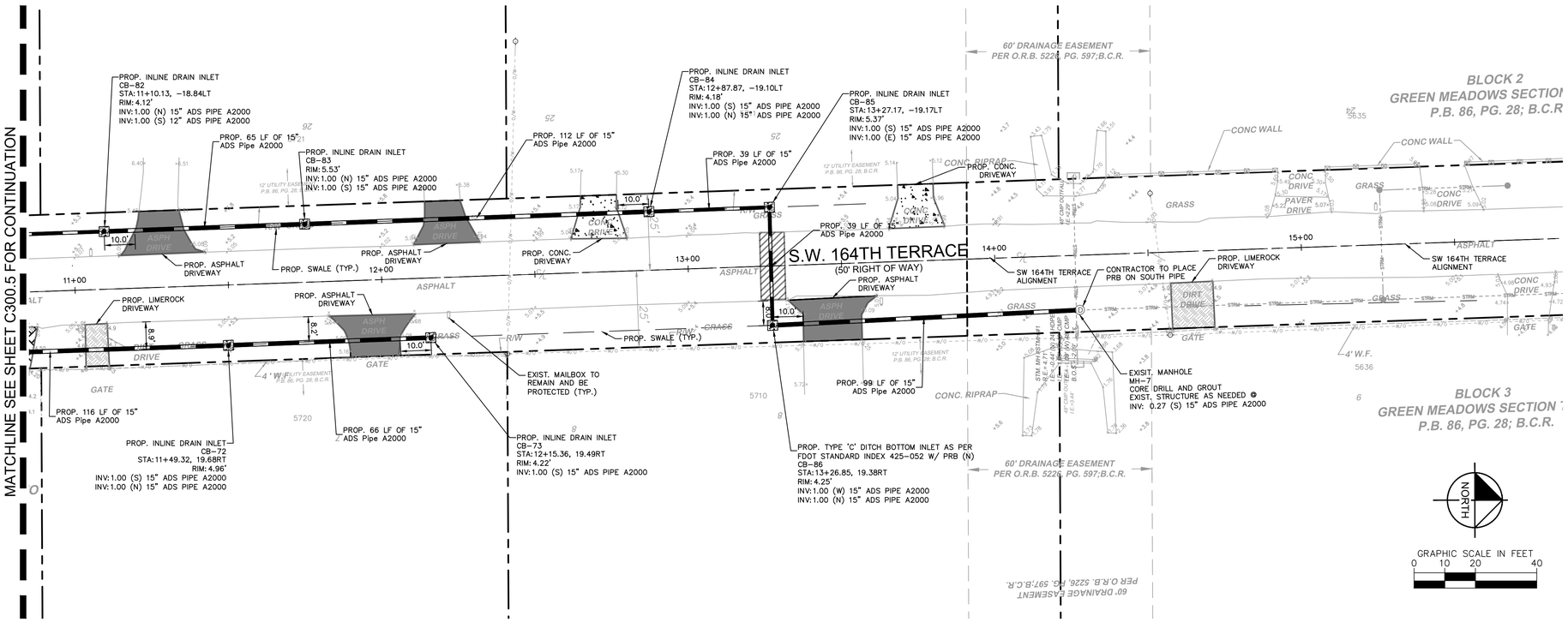
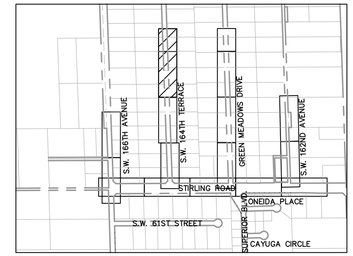


KEY MAP



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No.	REVISIONS	DATE	BY

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8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM REGISTRY No. 696

STEFANO VIOLA LICENSE No 74655 STATE OF FLORIDA PROFESSIONAL ENGINEER

KHA PROJECT	143221005
DATE	05/15/2024
SCALE	AS SHOWN
DESIGNED BY	TS
DRAWN BY	DG
CHECKED BY	SV

ENGINEERING PLAN

SW RANCHES GREEN MEADOWS DRAINAGE
PREPARED FOR
TOWN OF SOUTHWEST RANCHES
SOUTHWEST RANCHES FLORIDA

SHEET NUMBER
C300.6

Plotted By:Bezmer, Elinor Sheet Set:SW Ranches Green Meadows Drainage Layout:C300.6 Engineering Plan May 17, 2024 09:06:37am K:\fti_sun\143_jobs\143221005 sw ranches green meadows drainage\CAD\plansheets\C300 Engineering Plan.dwg
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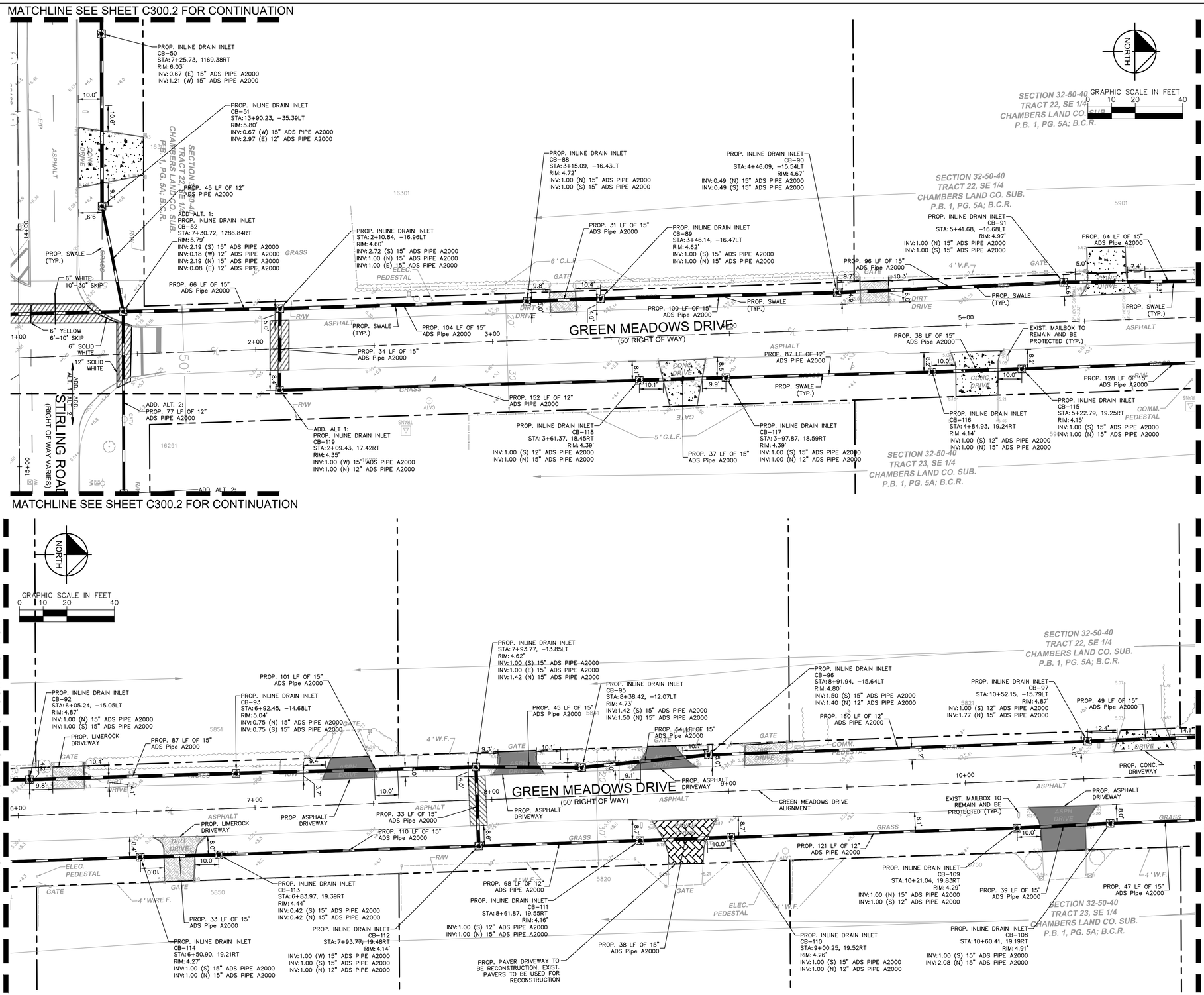
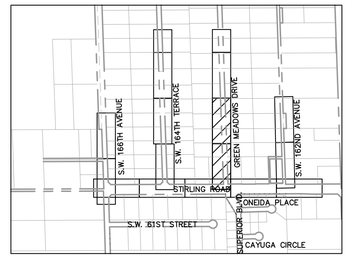


KEY MAP



LEGEND

- PROPERTY LINE/ RIGHT-OF-WAY LINE
- EXISTING SANITARY SEWER PIPE
- EXISTING WATER MAIN PIPE
- EXISTING OVERHEAD WIRE
- EXISTING STORM SEWER PIPE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING SIGN
- EXISTING MAILBOX
- EXISTING VALVE
- EXISTING HYDRANT
- EXISTING GRADE
- EXISTING LIGHTPOLE
- PROPOSED STORM MANHOLE
- PROPOSED CATCH BASIN
- PROPOSED SWALE
- PROPOSED PAVEMENT
- PROPOSED LIMEROCK
- PROPOSED TRENCH RESTORATION
- PROPOSED PAVER
- PROPOSED CONCRETE
- PROPOSED DRAIN PIPE

NOTES

1. ALL AREAS DAMAGED BY THE CONTRACTOR, INCLUDING BUT NOT LIMITED TO PAVEMENT MARKINGS, ASPHALT, SWALE, SIDEWALK, AND DRIVEWAYS, SHALL BE RESTORED, AT THE CONTRACTOR'S EXPENSE, TO ORIGINAL CONDITION.
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5. ALL EXISTING MAILBOXES IMPACTED BY CONSTRUCTION SHALL BE MODIFIED/RELOCATED AS NECESSARY AT THE CONTRACTOR'S EXPENSE.
6. ALL SIDEWALKS TO BE 4" THICK, EXCEPT THOSE TRAVERSING DRIVEWAYS SHALL BE 6" THICK, AS PER SIDEWALK DETAIL.
7. PROPOSED SIDEWALK SLOPE SHALL NOT EXCEED MAXIMUM CROSS SLOPE OF 2% AND LONGITUDINAL SLOPE OF 5%.
8. ALL SIDEWALK RAMPS AND DETECTABLE WARNINGS TO MEET FDOT STANDARDS.
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STEFANO VIOLA LICENSE No 74655 STATE OF FLORIDA PROFESSIONAL ENGINEER
DATE: 10/4/2024

KHA PROJECT	143221005
DATE	05/15/2024
SCALE	AS SHOWN
DESIGNED BY	TS
DRAWN BY	DG
CHECKED BY	SV

ENGINEERING PLAN

SW RANCHES GREEN MEADOWS DRAINAGE

PREPARED FOR
TOWN OF SOUTHWEST RANCHES
SOUTHWEST RANCHES FLORIDA

SHEET NUMBER
C300.7

Plotted By:Bezirer, Elonia Sheet Set:SW Ranches Green Meadows Drainage Layout:C300.7 Engineering Plan May 17, 2024 09:05:59am K:\Ftl_civ\143 Jobs\143221005 sw ranches green meadows drainage\CAD\plansheets\C300.7 Engineering Plan.dwg
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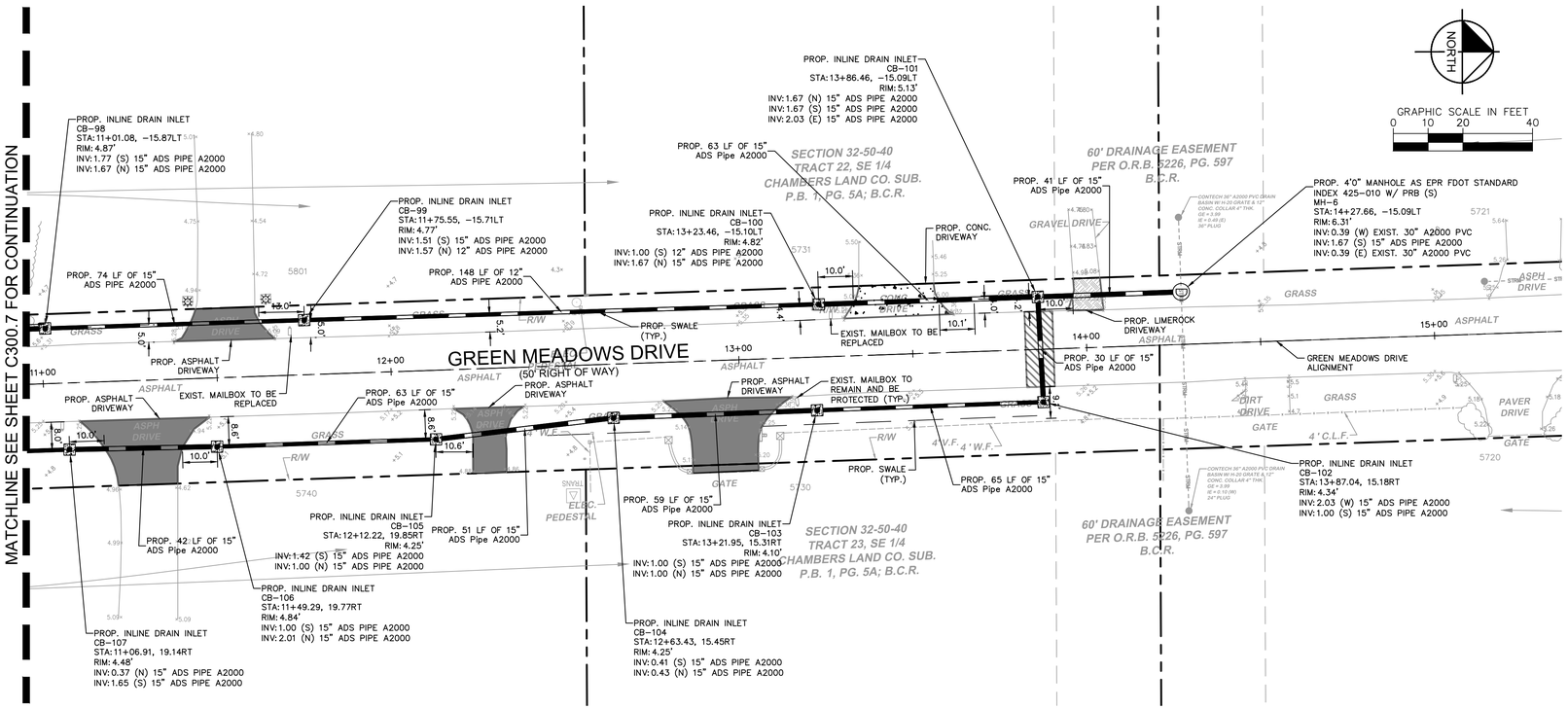
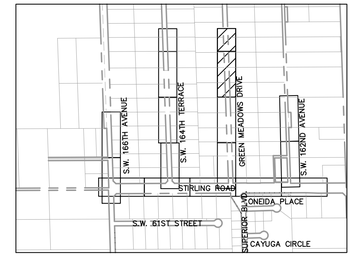


KEY MAP



LEGEND

- PROPERTY LINE/ RIGHT-OF-WAY LINE
- SAN — EXISTING SANITARY SEWER PIPE
- W — EXISTING WATER MAIN PIPE
- O/W — EXISTING OVERHEAD WIRE
- STRM — EXISTING STORM SEWER PIPE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING SIGN
- EXISTING MAILBOX
- EXISTING VALVE
- EXISTING HYDRANT
- EXISTING GRADE
- EXISTING LIGHTPOLE
- PROPOSED STORM MANHOLE
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KHA PROJECT	143221005
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ENGINEERING PLAN

SW RANCHES GREEN MEADOWS DRAINAGE
PREPARED FOR
TOWN OF SOUTHWEST RANCHES
SOUTHWEST RANCHES FLORIDA

SHEET NUMBER
C300.8

Plotted By:Bezinet, Elona Sheet Set:SW Ranches Green Meadows Drainage Layout:C300.8 Engineering Plan May 17, 2024 09:07:11am K:\Ftl_civil\143 Jobs\143221005 sw ranches green meadows drainage\CAD\plansheets\C300 Engineering Plan.dwg
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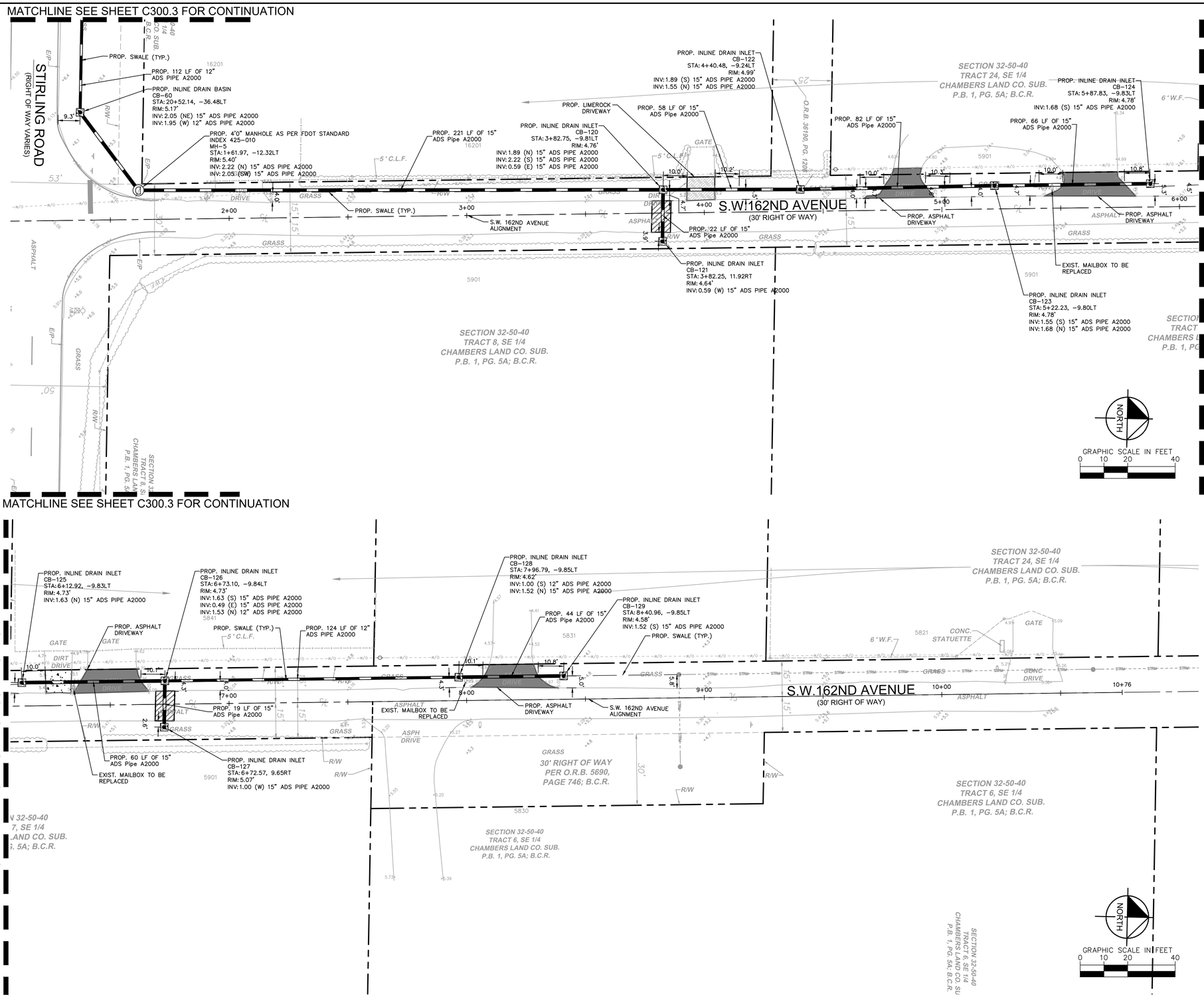
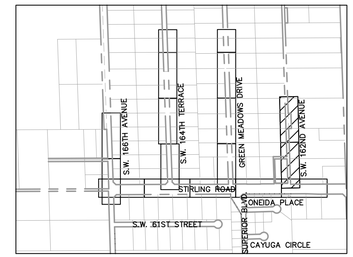


KEY MAP



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- EXISTING OVERHEAD WIRE
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ENGINEERING PLAN

SW RANCHES GREEN MEADOWS DRAINAGE

PREPARED FOR
TOWN OF SOUTHWEST RANCHES
FLORIDA

SOUTHWEST RANCHES

SHEET NUMBER
C300.9

Plotted By:Bezirer, Elinor Sheet Set:SW Ranches Green Meadows Drainage Layout:C300.9 Engineering Plan May 17, 2024 09:07:35am K:\Mi_civ\143 Jobs\143221005 sw ranches green meadows drainage\CAD\plansheets\C300 Engineering Plan.dwg
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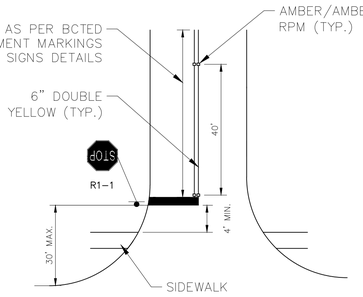
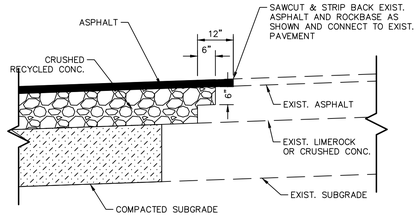


STOP BAR & STRIPING DETAIL

NOT TO SCALE

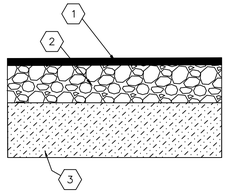
NOTES:

1. EXISTING STOP SIGNS AND STOP BARS SHALL BE RELOCATED AS NEEDED TO COMPLY WITH MINIMUM/MAXIMUM DIMENSIONS SHOWN. ALL RELOCATIONS SHALL BE PREFORMED AT NO ADDITIONAL COST TO THE OWNER.
2. ALL STOP BARS SHALL BE LOCATED AS PER BROWARD COUNTY STANDARD DETAILS.
3. DETAILS IN FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) ROADWAY AND TRAFFIC DESIGN STANDARDS, AND BROWARD COUNTY PUBLIC WORKS MANUAL SHALL BE USED WHERE APPLICABLE.
4. REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED AS NOTED IN PLANS AND DETAILS. ALL STRIPING SHALL BE THERMOPLASTIC.
5. ALL EXISTING SIGNS SHALL BE PROTECTED DURING CONSTRUCTION AND SHALL REMAIN. CONTRACTOR IS RESPONSIBLE TO REPLACE/REPAIR ANY DAMAGE TO SIGNAGE AS A RESULT OF CONSTRUCTION AT NO COST TO THE OWNER.
6. ALL EXISTING PAVEMENT MARKINGS SHALL BE REPLACED FOLLOWING RESURFACING.
7. WHERE NEEDED, EXTEND EXISTING SOLID DOUBLE YELLOW TO MEET BCTED STANDARDS.



CONNECTION TO EXISTING PAVEMENT DETAIL

NOT TO SCALE

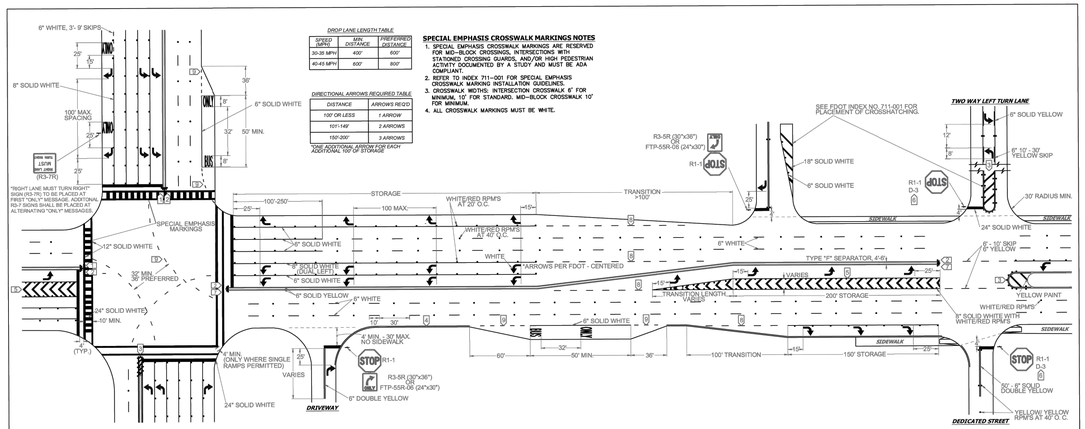


PAVING LEGEND

1. 1 1/2" ASPHALT SURFACE TYPE SP-12.5 FIRST LIFT AND 1 1/2" SP-9.5 TOP LIFT
2. 8" LIMEROCK BASE COMPACTED IN 1 LIFT WITH MINIMUM LBR OF 100
3. 12" THICK SUBGRADE COMPACTED AND STABILIZED WITH MINIMUM DESIGN LBR OF 40 COMPACTED TO AT LEAST 98% OF MAXIMUM DRY DENSITY (AASHTO T-180)

PAVEMENT CROSS-SECTION

NOT TO SCALE



DROP LANE LENGTH TABLE

SPEED (MPH)	MIN. DISTANCE	PREFERRED DISTANCE
30-35 MPH	400'	600'
40-45 MPH	600'	800'

DIRECTIONAL ARROWS REQUIRED TABLE

DISTANCE	ARROWS REQ'D
100' OR LESS	1 ARROW
101'-149'	2 ARROWS
150'-250'	3 ARROWS

*ONE ADDITIONAL ARROW FOR EACH ADDITIONAL 100' OF STORAGE

SPECIAL EMPHASIS CROSSWALK MARKING NOTES

1. SPECIAL EMPHASIS CROSSWALK MARKINGS ARE RESERVED FOR MID-BLOCK CROSSINGS, INTERSECTIONS WITH STATIONED CROSSING GUARDS, AND/OR HIGH PEDESTRIAN ACTIVITY DOCUMENTED BY A STUDY AND MUST BE ADA COMPLIANT.
2. REFER TO INDEX 711-001 FOR SPECIAL EMPHASIS CROSSWALK MARKING INSTALLATION GUIDELINES.
3. CROSSWALK WIDTHS: INTERSECTION CROSSWALK 6' FOR MINIMUM, 10' FOR STANDARD. MID-BLOCK CROSSWALK 10' FOR MINIMUM.
4. ALL CROSSWALK MARKINGS MUST BE WHITE.

NOTES

1. ALL PAVEMENT MARKINGS SHALL BE ALKYD BASED THERMOPLASTIC AND FULLY RETROREFLECTORIZED.
2. ALL PAVEMENT MARKINGS ON PAVER SYSTEMS SHALL BE 3M 380/381 SERIES TAPE OR EQUIVALENT AND APPLIED WITH P60 ADHESIVE AS PER MANUFACTURERS SPECIFICATIONS.
3. ALL PAVEMENT MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", BCTED STANDARDS, AND FDOT DESIGN STANDARDS.
4. SEE FDOT INDEX NO 706-001 FOR PLACEMENT OF RPM's (FOR BULLNOSE RPM TREATMENT, SEE LEGEND NO. 1)
5. RPM's SHALL BE CLASS "B" OR EQUIVALENT, APPLIED WITH EPOXY OR BITUMINOUS ADHESIVE.
6. FDOT APPROVED SEALER SHALL BE USED WHEN APPLYING MARKINGS ON CONCRETE.
7. FOR BIKE LANE DETAILS SEE FDOT INDEX NO. 711-002.
8. EXISTING MARKINGS SHALL BE REMOVED BY WATER BLASTING OR SAND BLASTING.
9. ALL STOP LINES TO BE 4' BEHIND CROSSWALK OR SIDEWALK.
10. PAVEMENT MARKING REFLECTIVITY SHALL BE UNIFORM ACROSS THE ENTIRE STRIPE AND SHALL HAVE A MINIMUM REFLECTIVITY READING OF 250 MILLICANDELAS FOR WHITE AND 175 MILLICANDELAS FOR YELLOW.
11. ALL PRODUCTS MUST BE ON FDOT'S APPROVED PRODUCTS LIST (APL).
12. RPMS SHALL NOT BE INSTALLED ADJACENT TO BIKE LANES.
13. LONGITUDINAL CROSSWALK MARKINGS SHALL BE INSTALLED AT ALL CROSS STREETS ON COUNTY ROADS THAT ARE FOUR LANES OR GREATER.

LEGEND

1. YELLOW/YELLOW RPM DETAILS — DIRECTION OF TRAVEL; CENTERLINE; DIRECTION OF TRAVEL; 2' MIN TO CROSSWALK; REFLECTIVE YELLOW
2. MEDIAN NOSE PAINT DETAILS — RAISED SEPARATOR; GRASS MEDIAN; POINT OF CURB; REFLECTIVE YELLOW; RADIUS POINT; DO NOT PAINT BRICK PAVERS
3. PAINTED MEDIAN DETAILS — DIRECTION OF TRAVEL; 6" SOLID DOUBLE YELLOW; 18" SOLID YELLOW; YELLOW YELLOW RPM's
4. EDGE LINE DETAILS — 6" SOLID WHITE OR YELLOW; EDGE OF PAVEMENT
5. CHEVRON DETAILS - CROSSWALK AREAS AND IN FRONT OF CURB RAMPS — DIRECTION OF TRAVEL; WHITE/RED RPM's; 18" SOLID WHITE; 9" SOLID WHITE; SEE FDOT INDEX NO. 17346 FOR SPACING OF CHEVRONS
6. STREET NAME BLADE DETAILS — SEE BCTED STOP SIGN AND STREET IDENTIFICATION ASSEMBLY; TYPICAL DETAILS
7. TYPE IV SEPARATOR DETAILS — REFLECTIVE YELLOW PAINT; YELLOW/YELLOW RPM's; 6'-0" - 12'; TYPE "E" CURB AND GUTTER; 6" SOLID YELLOW
8. 6'-10' SKIP DETAILS — 6' - 10' SKIPS 8" WHITE SHALL BE USED FOR THE FOLLOWING CONDITIONS:
   - TRANSITIONS AT ALL LEFT AND RIGHT TURN LANES
9. 2'-4' SKIP DETAILS — 2'-4' SKIPS 8" WHITE SHALL BE USED FOR THE FOLLOWING CONDITIONS:
   - RADIUS GUIDE LINES BETWEEN DUAL LEFTS TURN MOVEMENT (90' RADIUS PREFERRED OR AS NOTED ON PLANS)
   - BUS BAY TRANSITIONS

STOP SIGN NOTE

WHERE SIDE ROADS INTERSECT A MULTI LANE STREET OR HIGHWAY THAT HAS A SPEED LIMIT OF 45 MPH OR HIGHER, THE MINIMUM SIZE OF THE STOP SIGNS FACING THE SIDE ROAD APPROACHES, EVEN IF THE SIDE ROAD ONLY HAS ONE APPROACH LANE, SHALL BE 36"x36".

WHERE SIDE ROADS INTERSECT A MULTI-LANE (INCLUDING TURN LANE) STREET OR HIGHWAY THAT HAS A SPEED LIMIT OF 40 MPH OR LOWER, THE MINIMUM SIZE OF THE STOP SIGN FACING THE SIDE ROAD APPROACHES SHALL BE 36"x36".

REVISIONS	
DATE	DESCRIPTION
11-24-2020	UPDATED NOTES
04-14-2021	UPDATED NOTES
05-06-2022	UPDATED NOTES

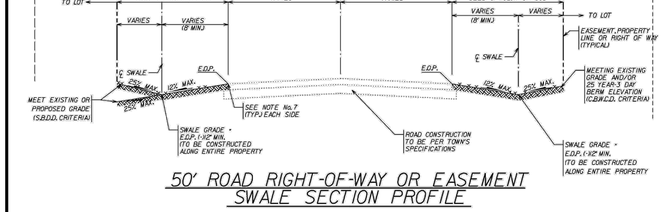
BROWARD COUNTY FLORIDA

PUBLIC WORKS DEPARTMENT
TRAFFIC ENGINEERING DIVISION

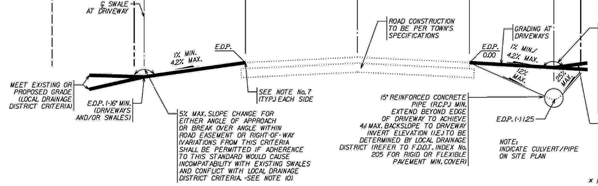
DESIGN BY: CARMELO CARATOZZOLO, P.E. SCALE: NTS
DRAWN BY: STEPHON RAMOUTAR
CHECKED BY: CARMELO CARATOZZOLO, P.E.

PAVEMENT MARKINGS AND SIGNS DETAILS

SHEET NO. 1 OF 1



50' ROAD RIGHT-OF-WAY OR EASEMENT SWALE SECTION PROFILE

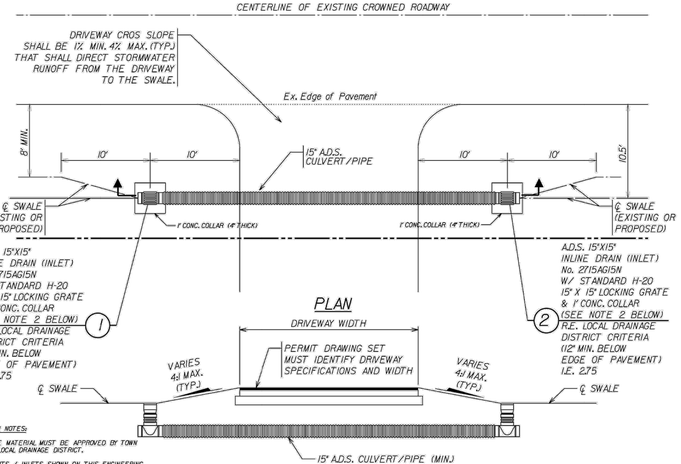


50' ROAD RIGHT-OF-WAY OR EASEMENT DRIVEWAY CROSSING SECTION PROFILE

× FOR DESIGN SPEEDS GREATER THAN 40 MPH AND/ OR EASEMENTS AND RIGHTS-OF-WAY GREATER THAN 50', REFER TO F.D.O.T. INDEX No.700 SHEET 1 OF 2 FOR MINIMUM CLEAR ZONE/ CULVERT LOCATION (SEE NOTE 6)

DRIVEWAY NOTES:

1. DRIVEWAYS MUST NOT ADVERSELY IMPACT APPLICANT'S PROPERTY OR ADJACENT PROPERTIES NOR INCLUDE SIGNIFICANT AMOUNT OF FILLING.
2. ALL IMPROVEMENTS MUST MEET THE REQUIREMENTS OF THE BROWARD COUNTY "LAND DEVELOPMENT CODE", "MINIMUM CONSTRUCTION STANDARDS FOR ROADWAYS UNDER BROWARD COUNTY JURISDICTION", AND LOCAL DRAINAGE DISTRICT CRITERIA.
3. SECTIONS SHOWN ABOVE PERTAIN TO A MINIMUM 50' R/W OR EASEMENT WIDTH. WIDTHS GREATER THAN 50' SHALL MEET SAME CRITERIA.
4. AT TIME OF PERMIT APPLICATION SUBMITTAL, APPLICANT MUST PROVIDE THE TOWN OF SOUTHWEST RANCHES WITH PROOF OF LEGAL ACCESS MEETING THE BROWARD COUNTY LAND DEVELOPMENT CODE, OR OBTAIN SAME PRIOR TO RECEIVING THE BUILDING PERMIT.
5. FOR LOCAL SUBDIVISION TYPE STREETS, A MAXIMUM CROSS SLOPE OF 12% AND MINIMUM CROSS SLOPE OF 3% SHALL BE REQUIRED FOR THE ROADWAY SHOULDER, AND SWALE DEPTH ADJACENT TO THE ROADWAY AS SHOWN ABOVE FOR THE ENTIRE PROPERTY LINE.
6. FOR PROPERTIES ADJACENT TO RURAL HIGH SPEED STREETS, A CROSS SECTION IN THE SWALE BETWEEN THE ADJACENT ROADWAY AND PROPERTY SHALL BE REQUIRED CONFORMING TO THE "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS" (CHAPTER 11) CRITERIA WITH RESPECT TO SHOULDERS, ROADSIDE SLOPES, BACK SLOPES, CLEAR ZONES, GUARDRAILS, ETC. AND BROWARD COUNTY LAND DEVELOPMENT CODE, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER IN THE STATE OF FLORIDA.
7. FINISHED GRADE OF TURF/ SOD SHALL BE 1' MINIMUM, 2' MAXIMUM BELOW EDGE OF PAVEMENT.
8. CONTRACTOR/ OWNER TO PROVIDE DETAILS FOR DRIVEWAYS INCLUDING, BUT NOT LIMITED TO TYPE (CONCRETE, ASPHALT, PAVERS, ETC.), WIDTH, THICKNESS AND SLOPE.
9. SURFACES WITHIN R/W EASEMENT OTHER THAN ASPHALT OR PLAIN CONCRETE SHALL BE SUBJECT TO A SPECIAL MAINTENANCE / INDEMNIFICATION AGREEMENT WITH THE TOWN.
10. PRIOR TO CONSTRUCTION OF ALL DRIVEWAYS AND/OR CULVERTS/UNDERDRAINS WITHIN ROADWAY EASEMENT OR RIGHT-OF-WAY, CONTRACTOR MUST CONTACT TOWN INSPECTOR.
11. ALL CONSTRUCTION SHALL CONFORM TO TOWN'S MASTER DRAINAGE PLAN.
12. THESE DETAILS ARE MINIMUM REQUIREMENTS AND MAY OR MAY NOT BE APPLICABLE TO MASTER DRAINAGE PLANS.



DRIVEWAY UNDERDRAIN DETAIL

DRIVEWAY UNDERDRAIN NOTES:

1. ALTERNATE PIPE MATERIAL MUST BE APPROVED BY TOWN ENGINEER AND LOCAL DRAINAGE DISTRICT.
2. PIPES / CULVERTS / INLETS SHOWN ON THIS ENGINEERING DETAIL ARE MINIMUM REQUIREMENTS. AT DISCRETION OF TOWN ENGINEER AND/OR LOCAL DRAINAGE DISTRICT, PIPE SIZE AND INLETS SHALL BE UP GRADED TO MEET THE REQUIREMENTS OF THE TOWN'S MASTER DRAINAGE PLAN.
3. DRAINAGE ENDWALLS DISCHARGING INTO CANALS / WATER BODIES SHALL MEET LOCAL DRAINAGE DISTRICT REQUIREMENTS.
4. DRAINAGE INLETS DISCHARGING INTO CANALS / WATER BODIES SHALL BE CONSTRUCTED WITH A POLLUTION RETARDANT BAFFLE.

LEGEND

3%	SLOPE AND DIRECTION
	EARTH
	FLOW ARROWS (DRAINAGE)
	RIGHT-OF-WAY (R/W) OR PROPERTY LINE
	CENTER LINE
	CENTER LINE OF SWALE
	EASEMENT
	DRIVEWAY
E.O.P.	EDGE OF PAVEMENT
C.B.W.C.D.	CENTRAL BROWARD WATER CONTROL DISTRICT
S.B.D.D.	SOUTH BROWARD DRAINAGE DISTRICT

Town of Southwest Ranches
Engineering Department
Town Hall • 13400 Griffin Road • Southwest Ranches, FL 33330

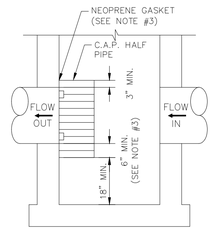
LATEST REVISION 9/16/14

DRIVEWAY AND SWALE EXHIBIT FOR RESIDENTIAL LOTS

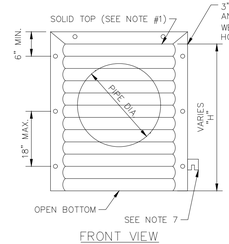
WINNINGHAM & FRADLEY, INC. ENGINEERS • PLANNERS • SURVEYORS

DRAWN: WFI DATE: 3/02
CHECKED: WFI DATE: 3/02

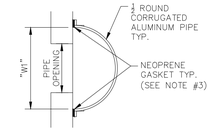
SHEET DSR01



SIDE VIEW



FRONT VIEW



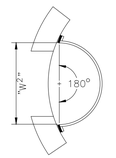
TOP VIEW
RECTANGULAR STRUCTURE

PIPE DIA.	W[1] (IN)	W[2] (IN)	T (GAUGE)	H (IN)
15"	21"	21"	16	VARIES
18"	24"	24"	16	VARIES
21"	30"	30"	16	VARIES
24"	30"	36"	16	VARIES
30"	36"	42"	14	VARIES
36"	42"	48"	14	VARIES
42"	48"	54"	14	VARIES
48"	54"	60"	14	VARIES
54"	60"	66"	14	VARIES

RECTANGULAR STRUCTURE
ROUND STRUCTURE

NOTES:

1. ALUMINUM SHEET OF SAME THICKNESS (GAUGE) AS PIPE SHALL BE WELDED TO CLOSE OPENING AT THE TOP.
2. NEOPRENE ADHESIVE BACKED GASKET, OR APPROVED EQUAL (1"X2") SHALL BE INSTALLED ON THE SIDES AND TOP OF ALL BAFFLES.
3. POLLUTION RETARDANT BAFFLES TO BE FASTENED IN PLACE WITH ⅜"x4" STEEL "RED HEADS", OR APPROVED EQUAL.
4. ALL EXFILRATION TRENCHES SHALL HAVE A POLLUTION RETARDANT BAFFLE AT EACH CONNECTION POINT TO A STRUCTURE (SEE EXFILTRATION TRENCH DETAIL).
5. FIBERGLASS BAFFLES ARE NOT PERMITTED.
6. MOUNTING BRACKETS MAY BE ADDED TO FLAT BARS TO EASE INSTALLATION IN ROUND STRUCTURES, SPACING TO MATCH HOLES IN FLAT BARS.
7. ALL STRUCTURES DISCHARGING INTO ANY RETENTION OR DETENTION AREAS SHALL HAVE BAFFLE MECHANISMS INSTALLED



TOP VIEW
ROUND STRUCTURE

POLLUTION RETARDANT BAFFLE

NOT TO SCALE

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

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8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM REGISTRY No. 696

No.	REVISIONS	DATE	BY

This item has been digitally signed and sealed by Stefano Viola, P.E. on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

STEFANO V. VIOLA LICENSE No 74655 STATE OF FLORIDA PROFESSIONAL ENGINEER

KHA PROJECT 143221005
DATE 05/15/2024
SCALE AS SHOWN
DESIGNED BY TS
DRAWN BY DG
CHECKED BY SV

ENGINEERING PLAN DETAILS

SW RANCHES GREEN MEADOWS DRAINAGE
PREPARED FOR
TOWN OF SOUTHWEST RANCHES
FLORIDA
SOUTHWEST RANCHES

SHEET NUMBER C301.0

Plotted By: Bazmen, Ellona Street Set: SW Ranches Green Meadows Drainage Layout: C301.0 Engineering Plan Details May 17, 2024 08:07:53am K:\Ftl_civil\143 Jobs\143221005 sw ranches green meadows drainage\CAD\plansheets\C3001 Engineering Plan.dwg
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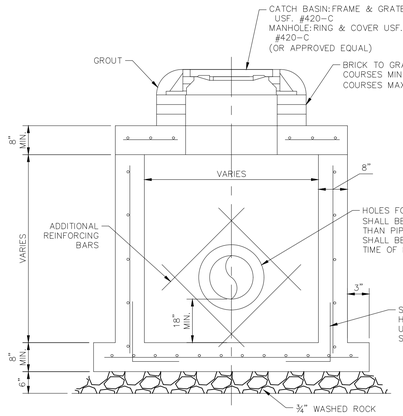
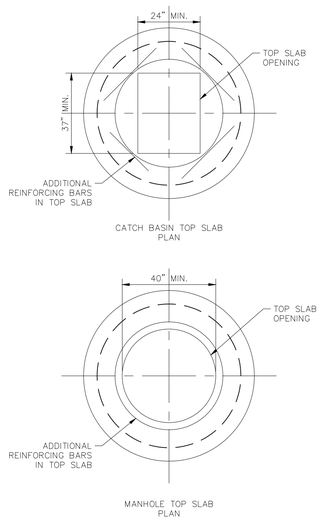
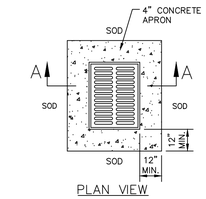


SECTION

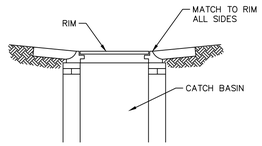


PRECAST DRAINAGE MANHOLE

NOT TO SCALE



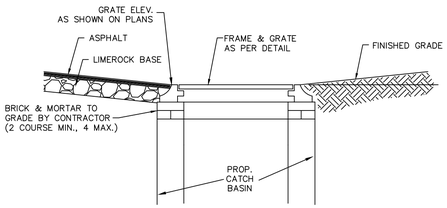
PLAN VIEW



SECTION A–A

CONCRETE INLET APRON

NOT TO SCALE



CATCH BASIN TOP DETAIL

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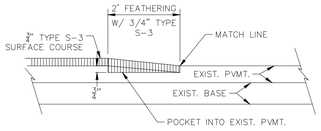
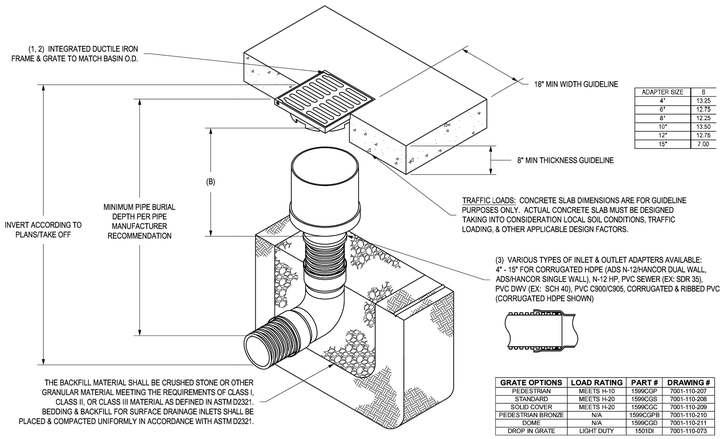


ASPHALT TRANSITION DETAIL AT BEGINNING OR ENDING OF ASPHALT LIFT OR NEW CONSTRUCTION

NOT TO SCALE

NYLOPLAST 15" INLINE DRAIN: 2715AG _ _ X



ADAPTER SIZE	B
4"	13.25
6"	12.75
8"	12.25
10"	13.50
12"	12.75
15"	7.00

GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	1599CGP	7001-110-207
STANDARD	MEETS H-20	1599CGS	7001-110-208
SOLID COVER	MEETS H-20	1599CGC	7001-110-209
PEDESTRIAN BRONZE	N/A	1599CGPB	7001-110-210
DOME	N/A	1599CGD	7001-110-211
DROP IN GRATE	LIGHT DUTY	1501DI	7001-110-073

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER.
4 - DIMENSIONS ARE FOR REFERENCE ONLY. ACTUAL DIMENSIONS MAY VARY.
5 - DIMENSIONS ARE IN INCHES
6 - SEE DRAWING NO. 7001-110-275 FOR ADS N-12 & HANCOR DUAL WALL BELL INFORMATION & DRAWING NO. 7001-110-384 FOR N-12 HP BELL INFORMATION.

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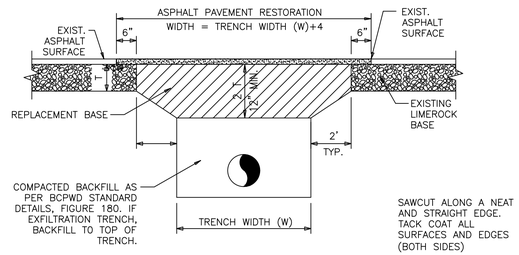
DRAWN BY	EBC	MATERIAL	
DATE	04-03-06		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	03-15-16		
DWG SIZE	A	SCALE 1:20	SHEET 1 OF 1

ADS Nyloplast — 3130 VERONA AVE, BUFORD, GA 30518, PHN (770) 932-2443, FAX (770) 932-2490, www.nyloplast-us.com

TITLE: 15 IN INLINE DRAIN QUICK SPEC INSTALLATION DETAIL

DWG NO. 7003-110-026 REV E



SAWCUT ALONG A NEAT AND STRAIGHT EDGE. TACK COAT ALL SURFACES AND EDGES (BOTH SIDES)

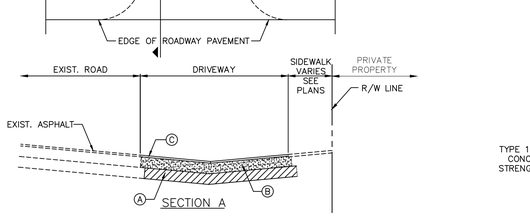
GENERAL NOTES :

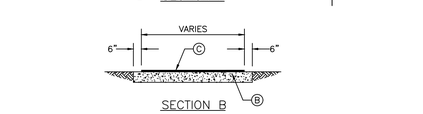
1. REPLACED BASE MATERIAL OVER DITCH SHALL BE TWICE THE THICKNESS OF THE ORIGINAL BASE. BUT NOT LESS THAN 12".
2. BASE MATERIAL SHALL BE PLACED IN 6 INCH MAXIMUM LAYERS AND EACH LAYER THOROUGHLY ROLLED OR TAMPED TO 98% OF MAXIMUM DENSITY, PER AASHTO T-180. BASE MATERIAL SHALL HAVE A MINIMUM LBR OF 100.
3. ASPHALTIC CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED.
4. SURFACE TREATED PAVEMENT JOINTS SHALL BE LAPPED AND FEATHERED.
5. SURFACE MATERIAL SHALL BE TYPE S-1 ASPHALTIC CONCRETE STRUCTURAL COURSE (1-1/4" THICK). MATCH EXISTING GRADES AT LIMITS OF SAWCUT.
6. UPON COMPLETION OF TRENCHING AND TRENCH/PAVEMENT RESTORATION FOR THE ENTIRE PROJECT, RESURFACE ENTIRE ROADWAY WIDTH WITH TYPE S-3 ASPHALTIC CONCRETE SURFACE COURSE (3/4" MINIMUM THICKNESS).
7. BID PRICES FOR PIPE AND/ OR FRENCH DRAIN SHALL INCLUDE PAVEMENT RESTORATION TO MATCH EXISTING GRADES. CONTRACTOR SHALL NOT LEAVE MORE THAN 1,000-FEET OF EXPOSED LIMEROCK BASE AT ANY TIME DURING THE TRENCH/PAVEMENT RESTORATION PROCESS. ONLY TYPE S-3 ASPHALTIC CONCRETE SURFACE COURSE WILL BE PAID SEPARATELY.
8. WHEN TRENCHING OUTSIDE THE ROADWAY PAVEMENT AREA, RESTORE SURFACE TO PRE-CONSTRUCTION GRADES AND RESTORE OR REPLACE ANY PUBLIC OR PRIVATE PROPERTY TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO COMMENCEMENT OF CONSTRUCTION. SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION. ALL COST SHALL BE INCLUDED AS PART OF THE SWALE RESTORATION PAY ITEM.
9. CONTRACTOR SHALL REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL SOILS INFORMATION TO UNDERSTAND EXISTING CONDITIONS.

TRENCH / PAVEMENT RESTORATION

SCALE: NOT TO SCALE

NOTE: GRADING AND PREPARATION OF SUBGRADE SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO APPLICATION OF PAVING MATERIALS.





SECTION A

SECTION B

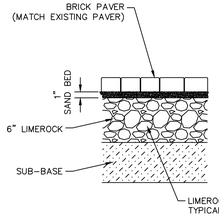
12" COMPACTED SUBGRADE COMPACTED TO 98% DENSITY PER AASHTO T-180 (LBR 40)

LIMEROCK BASE COURSE (6" THICK MIN.) COMPACTED TO 98% DENSITY PER AASHTO T-180 (LBR 100) (RESIDENTIAL)
LIMEROCK BASE COURSE (8" THICK MIN.) COMPACTED TO 98% DENSITY PER AASHTO T-180 (LBR 100) (INDUSTRIAL)

ASPHALTIC SURFACE COURSE:
1" THICK MIN. TYPE S-III COMPACTED (RESIDENTIAL)
2" THICK MIN. 3/4" TYPE S-III 1-1/4" TYPE S-I COMPACTED (COMMERCIAL & INDUSTRIAL)

DRIVEWAYS DETAIL

SCALE: N.T.S.



TYPICAL BRICK PAVER DETAIL

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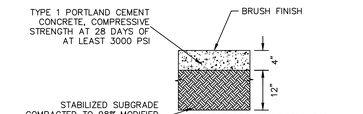
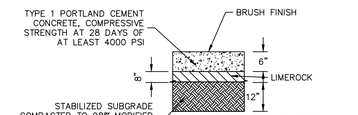


STANDARD DUTY CONCRETE



HEAVY DUTY CONCRETE

TYPICAL CONCRETE SECTIONS

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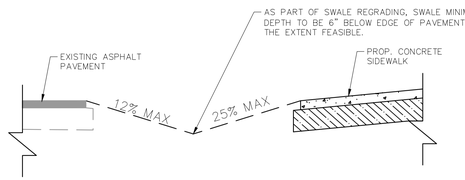

NOTE:

CONTRACTOR TO LOCATE IRRIGATION PIPES BEFORE SWALE REGRADING. IRRIGATIONS PIPES TO BE PROTECTED AR ALL TIMES DURING CONSTRUCTION.

SWALE REGRADING

NOT TO SCALE

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

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PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM REGISTRY No. 696

STEFANO VIOLA — LICENSE NO 74655 — STATE OF FLORIDA — PROFESSIONAL ENGINEER — DATE: 05/15/2024

KHA PROJECT 143221005
DATE 05/15/2024
SCALE AS SHOWN
DESIGNED BY TS
DRAWN BY DG
CHECKED BY SV

SW RANCHES GREEN MEADOWS DRAINAGE

PREPARED FOR TOWN OF SOUTHWEST RANCHES FLORIDA

ENGINEERING PLAN DETAILS

SOUTHWEST RANCHES

SHEET NUMBER C301.1

Plotted By:Brahner, Eliana Sheet Set:SW Ranches Green Meadows Drainage Layout:Engineering Plan Details May 17, 2024 09:08:25am K:\Ftl_civil\143 Jobs\143221005 sw ranches green meadows drainage\CAD\plansheets\C3001 Engineering Plan.dwg
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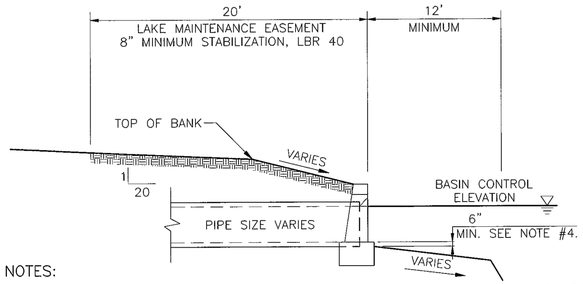

NOTES:

1. TOP OF CAP TO BE 1' ABOVE THE BASIN CONTROL ELEVATION FOR LAKES AND 2' ABOVE BASIN CONTROL ELEVATION FOR CANALS, UNLESS OTHERWISE APPROVED BY THE DISTRICT.
2. HEADWALLS ARE REQUIRED FOR ALL LAKE AND CANAL INTERCONNECTS.
3. CONCRETE AND RIP-RAP ENDWALLS ARE ACCEPTED PER FDOT INDEX 250-255 AND INDEX 258 WITH EXCEPTIONS AS NOTED IN SECTION 3.7.7 OF THE SBDD DESIGN CRITERIA MANUAL.
4. CHANNEL IN FRONT OF PIPE TO BE MIN 6" BELOW THE INVERT OF THE PIPE AND AT LEAST 1 1/2 TIMES THE DIA. OF THE PIPE TO THE DEEP CUT LINE AND CENTERED ON THE PIPE.
5. FACE OF HEADWALL TO BE LOCATED AT DESIGN EDGE OF WATER.

EXHIBIT 21

SEAL

SOUTH BROWARD DRAINGE DISTRICT
DESIGN CRITERIA MANUAL

EXHIBIT TITLE

OUTFALL DETAIL
WITH HEADWALL

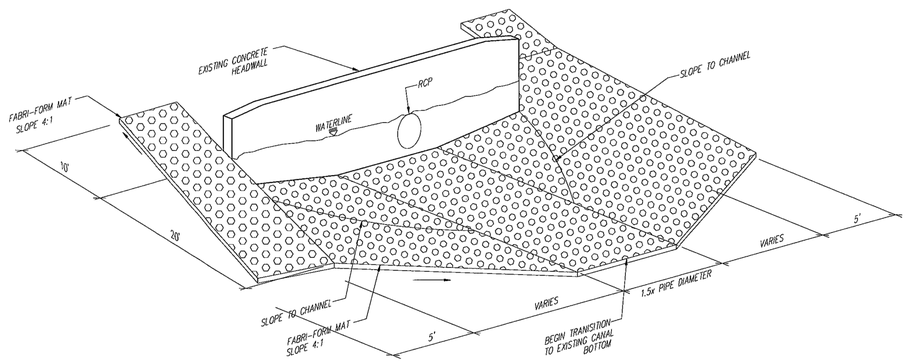

EXHIBIT 26

SEAL

SOUTH BROWARD DRAINGE DISTRICT
DESIGN CRITERIA MANUAL

EXHIBIT TITLE

FABRICFORM REVETMENT ENDWALL
STABILIZATION DETAIL

GENERAL NOTES

THE FOLLOWING GENERAL NOTES ARE REQUIRED BY THE SOUTH BROWARD DRAINAGE DISTRICT (SBDD). THEY ARE NOT MEANT TO BE ALL INCLUSIVE. IT IS THE ENGINEER'S RESPONSIBILITY TO ADD ANY NOTES WHICH WILL INFORM THE OWNER AND THE CONTRACTOR OF ANY ADDITIONAL REQUIREMENTS OF SBDD.

1 THE CONTRACTOR SHALL CONTACT SBDD 48 HOURS OR TWO (2) WORKING DAYS PRIOR TO ANY REQUIRED INSPECTION. TO SCHEDULE INSPECTIONS, PLEASE CALL SBDD AT (954)680-3337. SBDD'S WORKING HOURS ARE FROM 8:00 AM TO 4:30 PM. MONDAY THROUGH FRIDAY EXCEPT HOLIDAYS.

2 ANY REVISIONS TO PLANS PERMITTED BY SBDD MUST BE APPROVED BY THE DISTRICT ENGINEER PRIOR TO CONSTRUCTION.

3 A PRECONSTRUCTION MEETING SHALL BE SCHEDULED AND HELD AT LEAST FIVE (5) DAYS PRIOR TO BEGINNING CONSTRUCTION.

4 A SET OF SHOP DRAWINGS SHALL BE SUBMITTED TO SBDD AFTER APPROVAL BY THE ENGINEER OF RECORD, PRIOR TO BEGINNING CONSTRUCTION

5 DURING CONSTRUCTION, SBDD PERSONNEL WILL INSPECT THE FOLLOWING:
.. INSTALLATION OF ALL UNDERGROUND DRAINAGE FACILITIES BEFORE BACKFILLING,
.. BACKFILLING OF DRAINAGE TRENCHES,
.. SHAPING OF CANAL AND LAKE BANKS FROM THE DEEP CUT TO THE UPLAND EASEMENT LINE OR AS REQUIRED BY SBDD,
AND ANY OTHER DRAINAGE RELATED CONSTRUCTION WORK.
RE-INSPECTIONS, EXTRAORDINARY INSPECTIONS AND FINAL INSPECTIONS WILL BE SUBJECT TO ADDITIONAL FEE CHARGES BY SBDD.

6 THE CONTRACTOR CONSTRUCTING OR EXCAVATING LAKES OR OTHER WATER BODIES SHALL EXCERCISE EXTREME CAUTION TO ENSURE THAT THE SIDE SLOPES AND DEEP CUT LINES ARE CONSTRUCTD IN ACCORDANCE WITH THE APPROVED PLANS FOR THE DEVELOPMENT. THE CONTRACTOR OR OWNER SHALL PERIODICALLY, OR AS REQUIRED BY SBDD, OBTAIN A SURVEY, FROM A FLORIDA REGISTERED SURVEYOR OF THE LOCATION OF THE DEEP CUT LINES PRIOR TO FORMING THE SIDE SLOPES. THIS SURVEY SHALL BE PERFORMED PRIOR TO THE OWNER/CONTRACTOR BEGINNING CONSTRUCTION OF ANY BUILDING PADS ADJACENT TO THE WATER BODY. IN THE EVENT THAT THE CONTRACTOR OVER DIGS THE WATER BODY, THE OWNER/CONTRACTOR SHALL SUBMIT TO SBDD ITS SOLUTION TO CORRECT THE OVER DIGGING. ANY SUGGESTED REMEDY OR CORRECTION MUST BE APPROVED BY SBDD BEFORE THE CONTRACTOR BEGINS THE PROPOSED CORRECTION/REMEDY.

7 PAVING AND DRAINAGE "AS-BUILT" PLANS CERTIFIED BY THE ENGINEER OF RECORD AND APPROVED BY THE DISTRICT'S ENGINEER SHALL BE REQUIRED BEFORE THE RELEASE OF THE BOND OR LETTER OF CREDIT. AS-BUILTS SHALL BE PROVIDED AS AN OVERLAY OF THE APPROVED CONSTRUCTION DRAWINGS AND AT THE SAME SCALE AS ORIGINALLY SUBMITTED. AS-BUILT SUBMITTALS SHALL CONFORM TO THE REQUIREMENTS OF SBDD'S CRITERIA MANUAL. AS-BUILTS MUST ALSO BE PROVIDED IN ELECTRONIC FORMAT.

8 AS-BUILT DRAWINGS OF WATER BODIES SHALL INCLUDE THE DATA REQUIRED UNDER EXHIBIT 39 OF SBDD'S CRITERIA MANUAL. THE AS-BUILT CROSS SECTIONS SHALL BE PROVIDED AT NOT MORE THAN 100 FOOT INTERVALS AND AT ALL OUTFALL PIPES CONSTRUCTED WITHOUT HEADWALLS.

9 SBDD WILL NOT COMPLETE THE FINAL INSPECTION UNTIL RECEIPT OF THE AS-BUILT PACKAGE WHICH MUST INCLUDE THE ENGINEER'S CERTIFICATION AND TEST RESULTS FOR STABILIZATION OF LAKE/CANAL MAINTENANCE EASEMENTS, ARE RECEIVED.

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

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No.	REVISIONS	DATE	BY

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8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM REGISTRY No. 696

STEFANO VIOLA LICENSE No 74655 STATE OF FLORIDA PROFESSIONAL ENGINEER

This item has been digitally signed and sealed by Stefano Viola, P.E. on the date adjacent to the seal.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

KHA PROJECT 143221005
DATE 05/15/2024
SCALE AS SHOWN
DESIGNED BY TS
DRAWN BY DG
CHECKED BY SV

ENGINEERING PLAN DETAILS

SW RANCHES GREEN MEADOWS DRAINAGE
PREPARED FOR
TOWN OF SOUTHWEST RANCHES
SOUTHWEST RANCHES FLORIDA

SHEET NUMBER
C301.2

Plotted By:Bertner, Eliana Sheet Set:SW Ranches Green Meadows Drainage Layout:C301.2 Engineering Plan Details May 17, 2024 09:08:40am K:\Ftl_civil\143 Jobs\143221005 sw ranches green meadows drainage\CAD\plotsheets\C3001 Engineering Plan.dwg
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