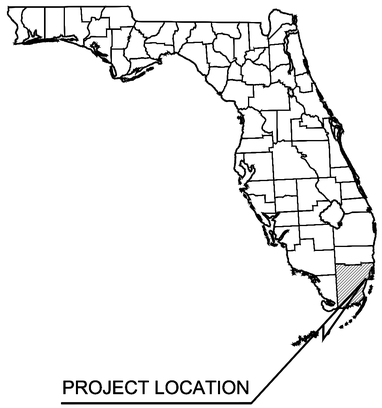


VILLAGE OF PALMETTO BAY
SUB-BASIN 59 / 60

PAVING AND DRAINAGE IMPROVEMENTS

FEBRUARY 2017

UTILITY PROVIDERS

WATER SUPPLY AND SEWAGE TREATMENT:
Miami–Dade Water & Sewer Department
3575 South LeJuene Road
Miami, FL 33146
Water Phone: (786) 268–5401
Water Contact: Luis Aguiar
Sewer Phone: (786) 268–5025
Sewer Contact: Rod Lovett

POWER:
Florida Power and Light Company
9250 W. Flagler St., Sixth Floor
Miami, FL 33174
Phone: (305) 552–3108
Pager: (800) 447–2433 #0561
Contact: Marlen Oria

STORM DRAINAGE PERMITTING
Miami–Dade County DERM
Water Control Section
33 SW 2nd Avenue, Suite 200
Miami, FL 33130
Phone: (305) 372–6681
Contact: Camilo P. Ignacio

TELEPHONE:
AT&T
9101 SW 24th Street
Miami, FL 33165
Phone: (305) 222–8745
Contact: Steve Massie

CABLE TELEVISION:
Adelphia Cable
20800 SW 167th Av.
Miami, FL 33187
Phone: (305) 238–7690
Cell: (786) 229–3895
Contact: Rick Davidson

GAS:
Florida City Gas
933 East 25th St.
Hialeah, FL 33013
Phone: (305) 691–8710 x5377
Contact: Alan Williams

DESIGN TEAM

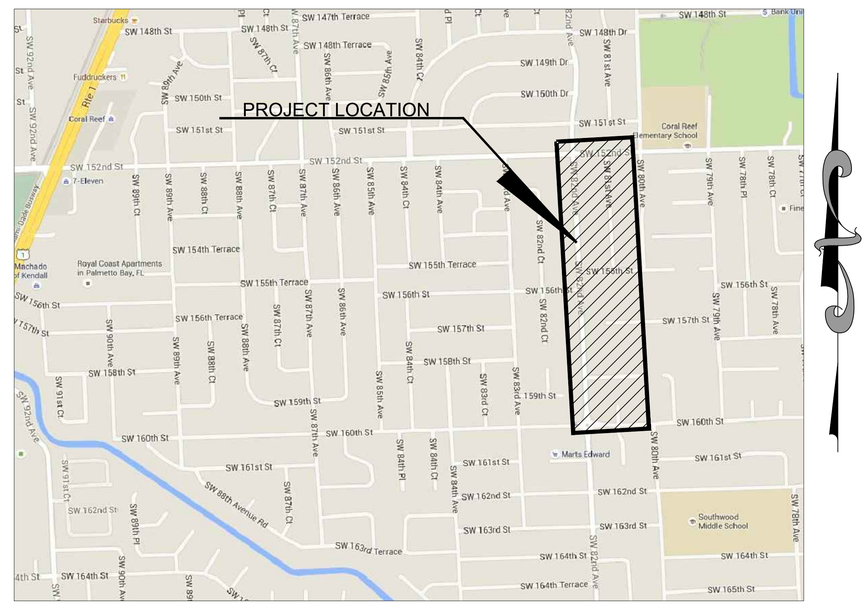
CIVIL ENGINEER/ LANDSCAPE ARCHITECT:
Kimley–Horn and Associates, Inc.
600 N. Pine Island Road
Suite 450
Ft. Lauderdale, FL 33324
Phone: (954)535–5100
Contact: Gary R. Ratay, P.E.

SURVEYOR:
Avirom & Associates, Inc.
50 SW 2nd Avenue
Suite 102
Boca Raton, FL 33432
Phone: (561)392–2594
Fax: (561)394–7125
Contact: John T. Doogan, P.L.S.

OWNER
Village of Palmetto Bay
9705 East Hibiscus Street
Palmetto Bay, FL 33157
Phone: (305)259–1234
Fax: (305)259–1290
Contact: Corrice E. Patterson

GEOTECHNICAL ENGINEER:
Tierra South Florida, Inc.
2765 Vista Parkway
Suite 10
West Palm Beach, FL 33411
Phone: (561)687–8539
Fax: (561)687–8570
Contact: Ramakumar Vedula, P.E.

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.



VICINITY MAP

COMMUNITY OFFICIALS

Mayor	Eugene Flinn
Vice-Mayor	John DuBois
Council Member	Karyn Cunningham
Council Member	David Singer
Council Member	Larissa Siegel Lara
Manager	Edward Silva
Attorney	Dexter Lehtinen
Clerk	Missy Arocha
Director of Public Works	Corrice E. Patterson

Sheet List Table

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C305	DRAINAGE PLAN AND PROFILE S.W. 82ND AVENUE
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C602	SIGNING AND MARKING PLAN
C603	SIGNING AND MARKING PLAN
C604	SIGNING AND MARKING PLAN

FOR BIDDING

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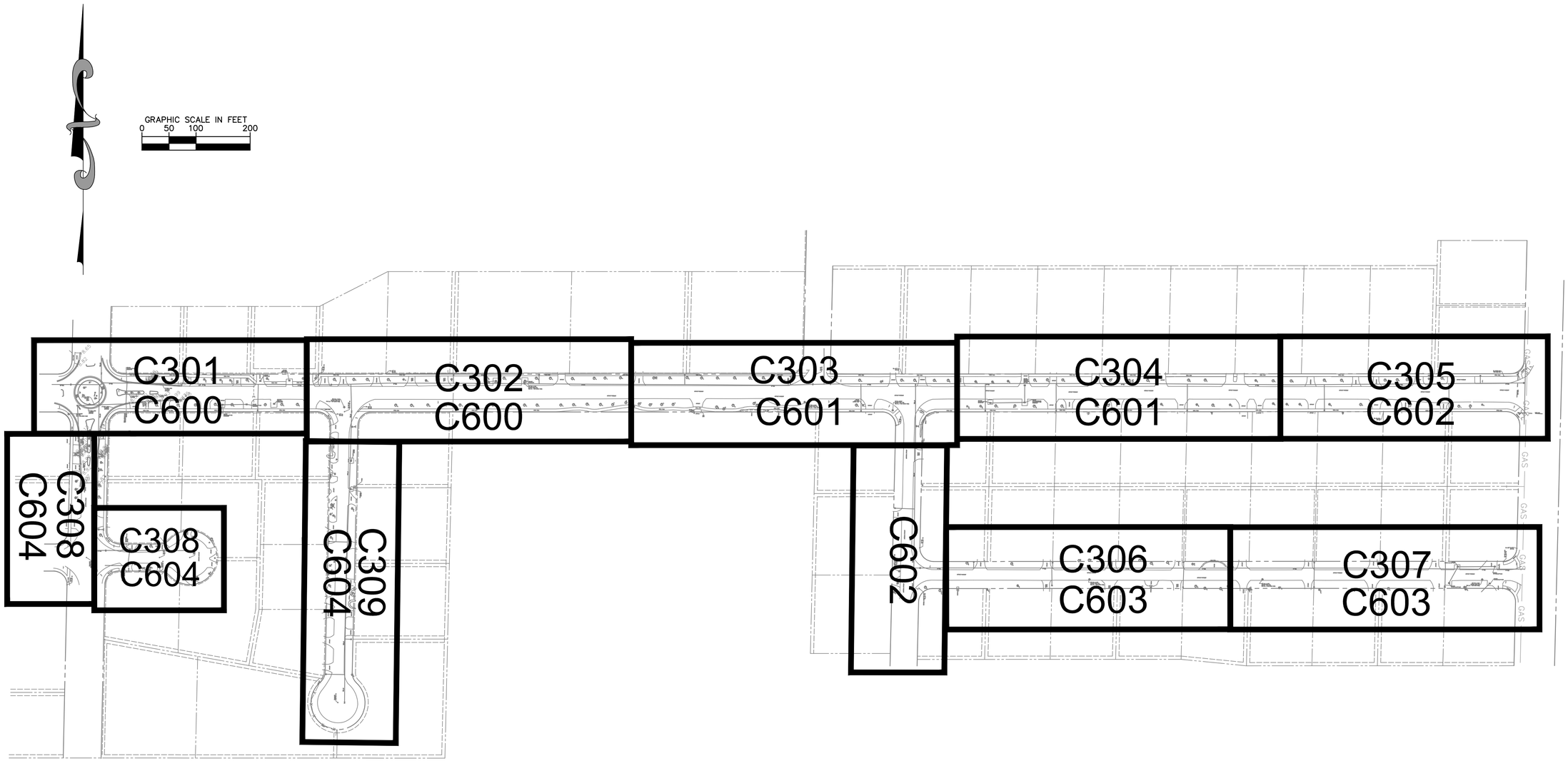

No.	REVISIONS	DATE	BY

Kimley»Horn

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PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT	043469019
DATE	FEB 2017
SCALE	AS SHOWN
DESIGNED BY	TJW
DRAWN BY	TJW
CHECKED BY	SFV

SUB-BASIN 50/60
PAVING AND DRAINAGE IMPROVEMENTS
PREPARED FOR
VILLAGE OF PALMETTO BAY

VILLAGE OF PALMETTO BAY FLORIDA

LICENSED PROFESSIONAL
STEFANO F. VIOLA
FLORIDA LICENSE NUMBER
74655
DATE: 2/13/2017

KEY SHEET

SHEET NUMBER
C200

Plotted By: Albino, Jaime Sheet Set: Sub Basin Drainage Design 043469019 Layout: C200 KEY SHEET February 24, 2017 11:22:05am K:\fll_civil\044_jobs\043469019-sub basin 59-60 drainage design\Cad\plan sheets\C200 KEY SHEET.dwg
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GENERAL NOTES

I. APPLICABLE CODES

A. GENERAL

1. COUNTY IN THESE NOTES REFERS TO THE MIAMI-DADE COUNTY, CITY IN THESE NOTES REFERS TO THE VILLAGE OF PALMETTO BAY, STATE IN THESE NOTES REFERS TO THE STATE OF FLORIDA.
2. 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.
3. ALL WORK AND MATERIALS SHALL CONFORM TO THE LATEST STANDARDS, CODES, REGULATIONS AND SPECIFICATIONS OF THE LOCAL, STATE, AND FEDERAL CODES WHERE APPLICABLE.
4. THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH FEDERAL, STATE, AND LOCAL LAWS, CODES, ORDINANCES AND REGULATIONS.
5. 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.
6. ALL HANDICAP ACCESSIBLE ACCESS TO CONFORM WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT AND LOCAL, STATE, AND FEDERAL CODES, LATEST EDITIONS.
7. 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.
8. RADII DIMENSIONS AND ELEVATIONS ARE TO BE EDGE OF PAVEMENT AND FINISH GRADE UNLESS NOTED OTHERWISE.
9. 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.
10. CONTRACTOR TO MAINTAIN ACCESS TO BUSINESS AND RESIDENTIAL LOCATIONS BY NORMAL MEANS AND METHODS, I.E. TEMPORARY STEEL PLATES, LIMEROCK, ETC. ALL ASSOCIATED COST TO BE INCLUDED IN M.O.T. PAY ITEM.
11. CONTRACTOR SHALL NOTIFY MIAMI-DADE COUNTY TRAFFIC ENGINEERING DIVISION 72 HOURS PRIOR TO WORK WITHIN COUNTY RIGHT-OF-WAY.
12. CONTRACTOR SHALL NOTIFY THE FLORIDA DEPARTMENT OF TRANSPORTATION 72 HOURS PRIOR TO WORK WITH STATE RIGHT-OF-WAY.
13. 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
14. EXCESS MATERIAL REMOVED BY THE CONTRACTOR WILL BE DISPOSED OF IN AREAS PROVIDED BY THE CONTRACTOR.
15. 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.
16. 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 OR CITY.
17. 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.
18. APPARENT ERRORS, DISCREPANCIES, OR OMISSIONS ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD IMMEDIATELY.
19. 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.
20. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES THAT REMAIN IN PLACE.
21. ALL ROAD CROSSINGS ARE OPEN CUT UNLESS OTHERWISE NOTED ON THE DRAWINGS.
22. THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZING EARTH, DRIVEWAYS, SIDEWALKS, ETC. WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION OR AS DIRECTED BY THE ENGINEER.
23. THE CONTRACTOR SHALL NOT ENCROACH INTO PRIVATE PROPERTY WITH PERSONNEL, MATERIAL OR EQUIPMENT WITHOUT OBTAINING WRITTEN PERMISSION FROM THE OWNER.
24. 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 APPURTENANCES 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.
25. 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 BEGINNING WORK IN ANY AREA.
26. 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.
27. 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.
28. THE VILLAGE OF PALMETTO BAY 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:
   A. A REFERENCE TO THE TRENCH SAFETY STANDARDS THAT WILL BE IN EFFECT DURING THE PERIOD OF CONSTRUCTION OF THE PROJECT.
   B. WRITTEN ASSURANCES BY THE CONTRACTOR PERFORMING THE TRENCH EXCAVATION THAT SUCH CONTRACTOR WILL COMPLY WITH THE APPLICABLE TRENCH SAFETY STANDARDS.
   C. A SEPARATE ITEM IDENTIFYING THE COST OF COMPLIANCE WITH THE APPLICABLE TRENCH SAFETY STANDARDS.

D. SURVEY DATA

1. ALL ELEVATIONS ON THE PLANS OR REFERENCED IN THE SPECIFICATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NVGD).
2. ALL EXISTING CONTROL POINTS AND/OR REFERENCE MARKERS SHALL BE RAISED TO FINAL GRADE. THESE POINTS AND REFERENCE MARKERS SHALL BE LOCATED AND NOTED ON THE AS-BULTS.
3. THE LOCATION OF EXISTING RIGHT-OF-WAY LINES, CENTERLINES, ROADWAY PAVEMENT, UTILITIES, TREES AND OTHER PHYSICAL ABOVE-GROUND FEATURES SHOWN ON THE PLANS WERE TAKEN FROM THE SPECIFIC PURPOSE SURVEYS PREPARED BY:

   AVIROM & ASSOCIATES, INC. SURVEY & MAPPING
   50 SW 2ND AVENUE, SUITE 102
   BOCA RATON, FL, 33432
   PHONE: (561) 392-2594
   CONTACT: JOHN T. DOOGAN

4. ALL STATIONS AND OFFSETS ARE REFERENCED TO BASELINE OF SURVEY/CONSTRUCTION BASELINE.
5. EXISTING SECTION CORNERS AND 1/4 SECTION CORNERS, AND OTHER LAND MARKERS OR MONUMENTS LOCATED WITHIN PROPOSED CONSTRUCTION ARE TO BE REFERENCED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND REPLACED IF DISTURBED BY THE CONTRACTOR'S SURVEY OR UNDER THE DIRECTION OF A REGISTERED LAND SURVEYOR LICENSED IN THE STATE OF FLORIDA.
6. ANY NGVD – 1929 MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE, NOTIFY:

   GEODETIC INFORMATION CENTER
   ATTEN: MARK MAINTANENCE SECTION N/CG-162
   6001 EXECUTIVE BLVD.
   ROCKVILLE, MARYLAND 20852
   PHONE: 301-443-8319

II. PRECONSTRUCTION RESPONSIBILITIES

A. GENERAL

1. UPON RECEIPT OF THE "NOTICE TO PROCEED", THE CONTRACTOR SHALL 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. PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION ELEVATION, AND MATERIAL OF ALL EXISTING UTILITIES WITHIN THE AREA OF CONSTRUCTION.
4. EXISTING UTILITY LOCATION SHOWN ON THESE PLANS ARE APPROXIMATE. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF EXISTING UTILITIES SHOWN OR FOR ANY EXISTING UTILITIES NOT SHOWN.
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.

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:
   A. SUBGRADE; SUBMIT AND HAVE APPROVED DENSITIES PRIOR TO PLACEMENT OF ROCK
   B. LIMEROCK BASE; SUBMIT AND HAVE APPROVED DENSITIES AND AS-BUILTS PRIOR TO THE PLACEMENT OF ANY ASPHALT.
   C. FIRST LIFT OF ASPHALTIC CONCRETE
   D. FINAL LIFT OF ASPHALTIC CONCRETE
2. 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 AS APPLICABLE. 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 ENGINEER'S 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 CITY.

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 CITY.
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.

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 PROJECT 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 A CONDITION AT LEAST 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 CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING PROGRESS OF THE WORK, AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION.
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.

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, ALL DRAINAGE AND WATER IMPROVEMENTS. 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, 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 ASSHTO 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 ASSHTO 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. 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 UNDERGROUND UTILITIES SHALL BE COMPLETED PRIOR TO THE CONSTRUCTION OF THE LIMEROCK BASE AND PRIOR TO THE PLACEMENT OF THE PAVEMENT. 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" THICK LAYER OF SP-9.5 TO BE PLACED IN (2) 3/4" THICK LIFTS
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.

D. TESTING

1. ALL SUB-GRADE, LIMEROCK AND ASPHALT TESTS REQUIRED SHALL BE TAKEN AT THE DIRECTION OF THE ENGINEER AND IN ACCORDANCE WITH FDOT STANDARDS.
2. DENSITY TESTS SHALL BE CONDUCTED EVERY 100 FEET AND TWO FEET AWAY FROM ANY MANHOLE OR DRAINAGE STRUCTURE INSTALLED IN PAVED AREAS.

IX. GENERAL CONSTRUCTION PHASING

THE FOLLOWING SPECIFIC REQUIREMENTS SHALL BE INCORPORATED INTO THE TRAFFIC CONTROL PLANS:

1. PORTABLE DMS SIGNS SHALL BE MOUNTED AND MAINTAINED ON THE FOLLOWING ROADWAY APPROACHES TWO (2) WEEKS IN ADVANCE OF CONSTRUCTION AND MAY BE REMOVED AFTER TRAFFIC IS REESTABLISHED EACH DIRECTION.

WESTBOUND – NW 82ND AVENUE
EASTBOUND – NW 82ND AVENUE
USE THESE SIGNS TO NOTIFY THE PUBLIC OF LANE CLOSURES ON COCONUT CREEK PARKWAY.

2. LANES MAY BE DIVIDED WITH A TEMPORARY ASPHALT SEPARATOR. PROVIDE TEMPORARY PAVEMENT AS REQUIRED.

3. TEMPORARY PAVEMENT, WIDENING OR CROSSOVERS SHALL BE A MINIMUM 6-INCH LIMEROCK OVER COMPACTED SUBGRADE WITH 2-INCH ASHALTIC CONCRETE.

4. MINIMUM LANE WIDTH SHALL BE 10-FEET.

5. ACCESS TO DRIVEWAYS AND SIDE STREETS SHALL BE PROVIDED AND MAINTAINED. USE COMMERCIAL MATERIAL AS NEEDED FOR A SMOOTH TRANSITION.

6. ADDRESS ALL DROP-OFF WITHIN CLEAR ZONE AT THE END OF EACH DAY'S OPERATION. SEE FDOT INDEX 600.

7. NIGHTTIME WORK (8:00 P.M. – 7:00 A.M.) WILL BE ALLOWED WITH PRIOR AUTHIORIZATION (CHECK FOR LOCAL ORDINANCES).

8. ALL WORK SHALL BE PERFORMED ENTIRELY WITHIN AND FROM THE EXISTING RIGHT-OF-WAY.

X. MAINTENANCE OF TRAFFIC

1. TRAFFIC CONTROLS SHALL BE IN ACCORDANCE WITH 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'S MAINTAINING AGENCY PRIOR TO CLOSURE.
4. AT THE DISCRETION OF THE ENGINEER, IF A LANE CLOSURE CAUSES EXTENDED CONGESTION OR DELAY, THE CONTRACTOR SHALL BE DIRECTED TO REOPEN THE CLOSED LANE(S) UNTIL SUCH TIME THAT TRAFFIC FLOW HAS RETURNED TO AN ACCEPTABLE LEVEL.
5. THE TRAFFIC AND TRAVEL WAYS SHALL NOT BE ALTERED BY THE CONTRACTOR TO CREATE A WORK ZONE UNTIL ALL LABOR AND MATERIAL ARE AVAILABLE FOR THE CONSTRUCTION IN THAT AREA.
6. THE CONTRACTOR SHALL REMOVE ANY EXISTING OR PROPOSED PAVEMENT MARKINGS THAT CONFLICT WITH THE TRAFFIC CONTROL. WHEN THE CONFLICT NO LONGER EXISTS THE CONTRACTOR SHALL RESTORE PAVEMENT MARKINGS TO THEIR ORIGINAL POSITION. REMOVAL OF EXISTING AND/OR TEMPORARY PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY FOLLOWING METHODS: BY MILLING AND ASPHALT OVERLAY, BY GRINDING AND ASPHALT OVERLAY, SAND OR WATER BLASTING, OR BY OTHER MEANS APPROVED BY THE ENGINEER. GRINDING (WITHOUT ASPHALT OVERLAY) SHALL ONLY BE PERMITTED IN NON-TRAFFIC AREAS AS DESIGNATED BY THE ENGINEER, ALL COSTS OF PAVEMENT MARKING REMOVAL, INCLUDING THE COST OF ASPHALT OVERLAY REQUIRED WHEN MILLING OR GRINDING IS USED IN TRAFFIC AREAS, SHALL BE INCLUDED IN THE COST OF THE BID. USE OF BLACK PAINT TO COVER EXISTING AND/OR TEMPORARY PAVEMENT MARKINGS IS PROHIBITED.
7. CONTRACTOR SHALL REMOVE OR COVER ANY EXISTING OR PROPOSED SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL. WHEN THE CONFLICT NO LONGER EXISTS, CONTRACTOR SHALL RESTORE THE SIGNS TO THEIR ORIGINAL POSITION, COST TO BE INCLUDED IN THE BID.
8. ALL EXISTING STREET NAMES AND STOP SIGNS AFFECTED BY CONSTRUCTION SHALL BE RELOCATED TO AND MAINTAINED IN A VISIBLE LOCATION FOR THE DURATION OF THE PROJECT. WHEN NO LONGER AFFECTED BY CONSTRUCTION THEY SHALL BE RESTORED TO THEIR FINAL POSITION. COST TO BE INCLUDED IN BID.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REMOVAL OF STORMWATER FROM ROADWAYS UTILIZED FOR TRAFFIC MAINTENANCE IN A MANNER APPROVED BY THE ENGINEER. COST TO BE INCLUDED IN BID.
10. AT THE END OF EACH WORK PERIOD, ANY DROP-OFF IN THE AREA ADJACENT TO THE TRAVEL WAY SHALL BE BACKFILLED IN ACCORDANCE WITH STANDARD INDEX 600 OR SHALL BE OTHERWISE PROTECTED WITH TEMPORARY BARRIER AT THE CONTRACTOR'S EXPENSE.
11. CONTRACTOR SHALL NOTIFY BROWARD COUNTY TRAFFIC ENGINEERING 48 HOURS PRIOR TO ANY MODIFICATION AND/OR CHANGES OF AN EXISTING TRAFFIC SIGNAL (E.G TAKING THE SIGNALS OFF-LINE, REMOVING OR REPLACING LOOP ASSEMBLIES OR REARRANGING TRAFFIC SIGNAL HEADS). THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR THE NORMAL MAINTENANCE OF THE EXISTING TRAFFIC SIGNAL(S) WITHIN THE PROJECT LIMITS. COST OF REARRANGING TRAFFIC SIGNAL HEADS AND MAINTAINING TRAFFIC SIGNALS TO BE INCLUDED IN THE BID.
12. CONTRACTOR TO MAINTAIN ACCESS TO RESIDENCES AND BUSINESSES ALONG THE PROJECT CONTRACTOR IS TO SUBMIT A PROPOSED METHOD OF MAINTAINING ACCESS TO THESE PROPERTIES TO ENGINEER FOR REVIEW PRIOR TO INSTALLATION. ALL COSTS WITH MAINTAINING ACCESS TO BE INCLUDED IN THE BID.
13. M.O.T TRANSITIONS AND TEMPORARY INTERSECTION CROSSOVERS WHERE CONSTRUCTION HAS CAUSED GRADE DIFFERENCES BETWEEN THE EXISTING AND NEW ROADWAYS SHALL BE CONSTRUCTED USING 1:20 SLOPE TO ACCOMMODATE VEHICULAR TRAFFIC FROM ANY DIRECTION. WORK SHALL BE DONE WITH ASPHALTIC CONCRETE TYPE SP-9.5 AND SHALL INCLUDE ASPHALT SLOPE REMOVAL WHEN NO LONGER NEEDED. ALL COSTS WITH MAINTAINING CROSSOVER SLOPE GRADE AND REMOVAL TO BE INCLUDED IN THE BID.
14. CONTRACTOR SHALL MAINTAIN A CONTINUOUS PEDESTRIAN WAY ON ONE SIDE OF THE ROADWAY AT ALL TIMES. PEDESTRIAN WAY SHALL HAVE SMOOTH SURFACE AND BE GRADED ON CONFORMANCE WITH THE AMERICAN DISABILITIES ACT (ADA) REQUIREMENTS. ALL COSTS TO BE INCLUDED IN THE BID.
15. AT THE END OF EACH WORK DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE, ANY DROP-OFF ADJACENT TO THE PEDESTRIAN, BICYCLE OR WHEELCHAIR TRAVEL PATHS SHALL BE BACKFILLED FLUSH WITH THE TRAVEL PATH OR SHALL BE PROTECTED WITH BARRICADES, TEMPORARY BARRIER WALL, OR APPROVED HANDRAIL. COST TO BE INCLUDED IN THE BID.
16. PEDESTRIAN, BICYCLE AND WHEELCHAIR TRAFFIC SHALL BE GUIDED AND MAINTAINED USING APPROVED WARNING LIGHTS, SIGNING AND CHANNELIZATION DEVICES. SUCH CONTROL DEVICES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH FDOT SPECIFICATIONS AND MUTCD SECTIONS ON WORK ZONE TRAFFIC CONTROL. COST TO BE INSTALLED IN THE BID.
17. IF THERE ARE UNEVEN PAVEMENT SURFACES DURING CONSTRUCTION, THE VERTICAL "DROP OFF" DIFFERENCE SHALL NOT BE MORE THAN 3 INCHES IN HEIGHT BETWEEN THE ADJACENT SURFACES. CONTRACTOR SHALL MAINTAIN ACCESS TO RESIDENCES AND BUSINESSES FOR GARBAGE/SANITATION PICK-UP ALONG THE PROJECT. ALL COSTS WITH MAINTAINING ACCESS TO BE INCLUDED IN THE BID.
18. CONTRACTOR SHALL MAINTAIN CURRENT LEVELS OF ROADWAY LIGHTING WITHIN THE PROJECT LIMITS AT ALL TIMES THROUGHOUT THE DURATION OF THE PROJECT. ALL COSTS WITH MAINTAINING LIGHTING TO BE INCLUDED IN THE M.O.T PAY ITEM.

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KHA PROJECT 043469019
DATE FEB 2017
SCALE AS SHOWN
DESIGNED BY TJW
DRAWN BY TJW
CHECKED BY SFV

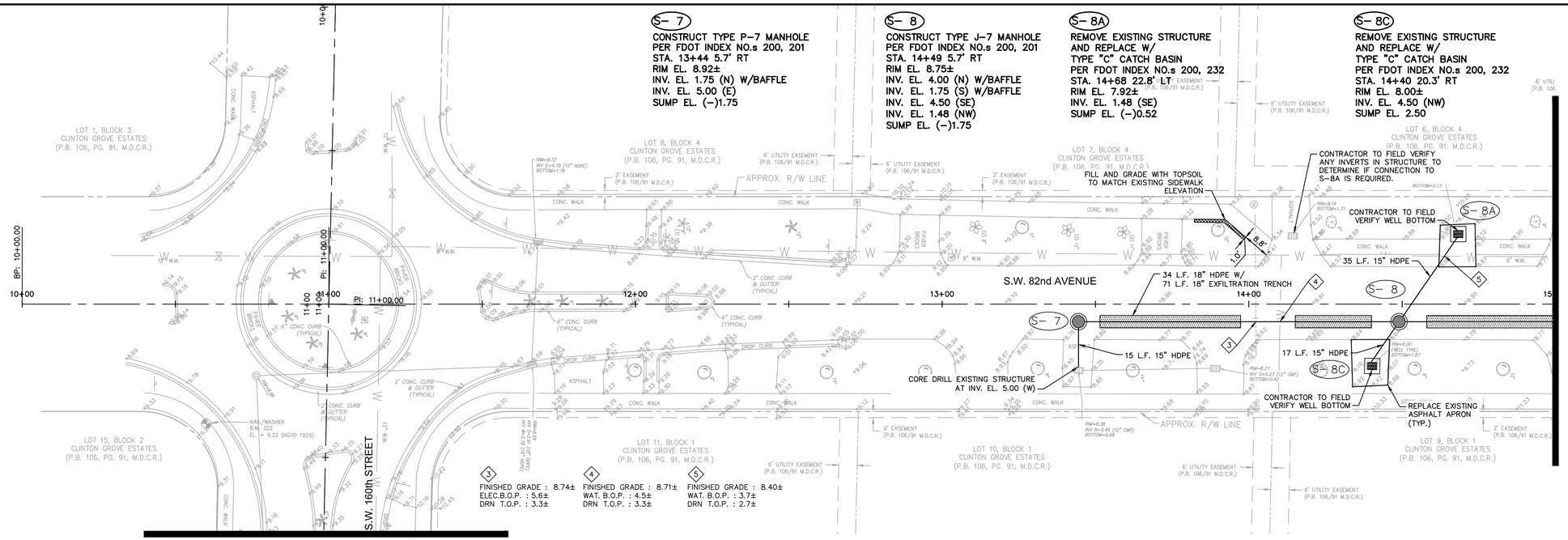
SUB-BASIN 50/60
PAVING AND DRAINAGE IMPROVEMENTS
PREPARED FOR
VILLAGE OF PALMETTO BAY

VILLAGE OF PALMETTO BAY FLORIDA

LICENSED PROFESSIONAL
STEFANO F. VIOLA
FLORIDA LICENSE NUMBER 74655
DATE: 2/13/2017

GENERAL NOTES

SHEET NUMBER
C201



LEGEND

- PROPOSED ASPHALT PAVEMENT, 8" LIMEROCK BASE AND 12" COMPACTED SUBGRADE
- PROPOSED CONCRETE SIDEWALK
- FILL AND REGRADE AS REQUIRED, 2" TOP SOIL AND SOD
- PROPOSED SWALE
- X.XX PROPOSED GRADE
- M.E. MATCH EXISTING GRADE

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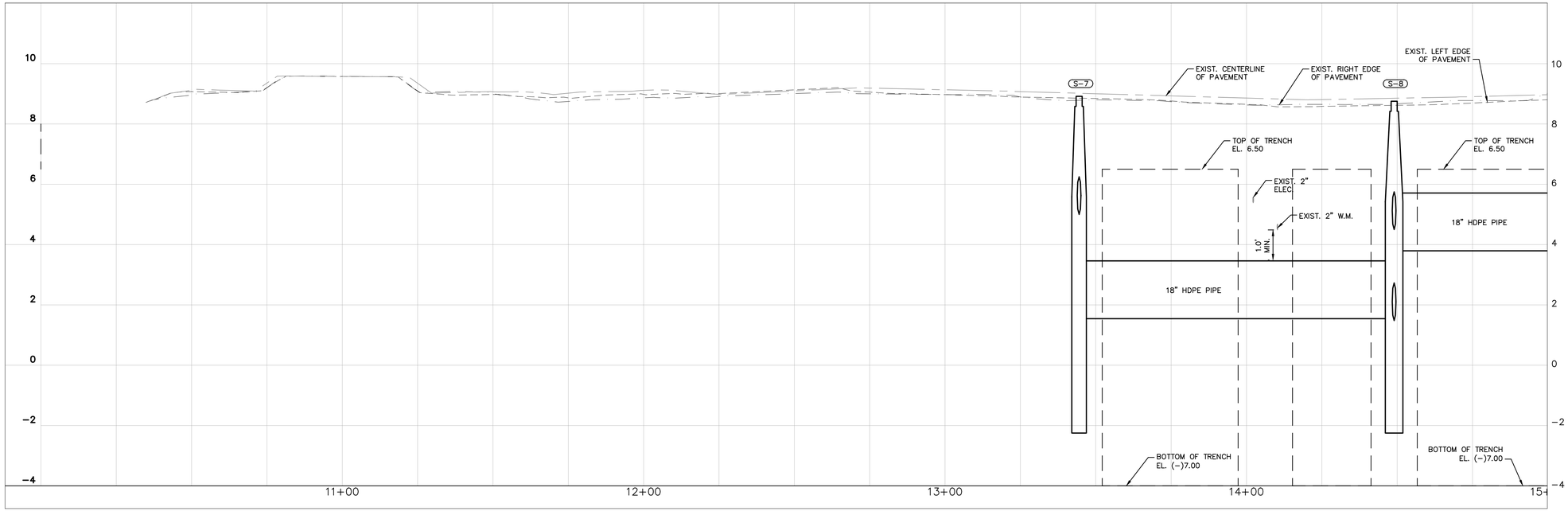

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VILLAGE OF PALMETTO BAY FLORIDA

LICENSED PROFESSIONAL
STEFANO F. VIOLA
FLORIDA LICENSE NUMBER 74655
DATE: 2/13/2017

DRAINAGE PLAN AND PROFILE
S.W. 82ND AVENUE

SHEET NUMBER
C301

Plotted By:Albino, Jaime Sheet Set:Sub Basin Drainage Design 04446901 9 Layout:C301 DRAINAGE PLAN AND PROFILE S.W. 82ND AVENUE February 24, 2017 11:22:32am K:\TL_civil\044 Jobs\044469019-sub basin 59-60 drainage design\Cad\plan sheets\C300 PLAN PROFILE.dwg
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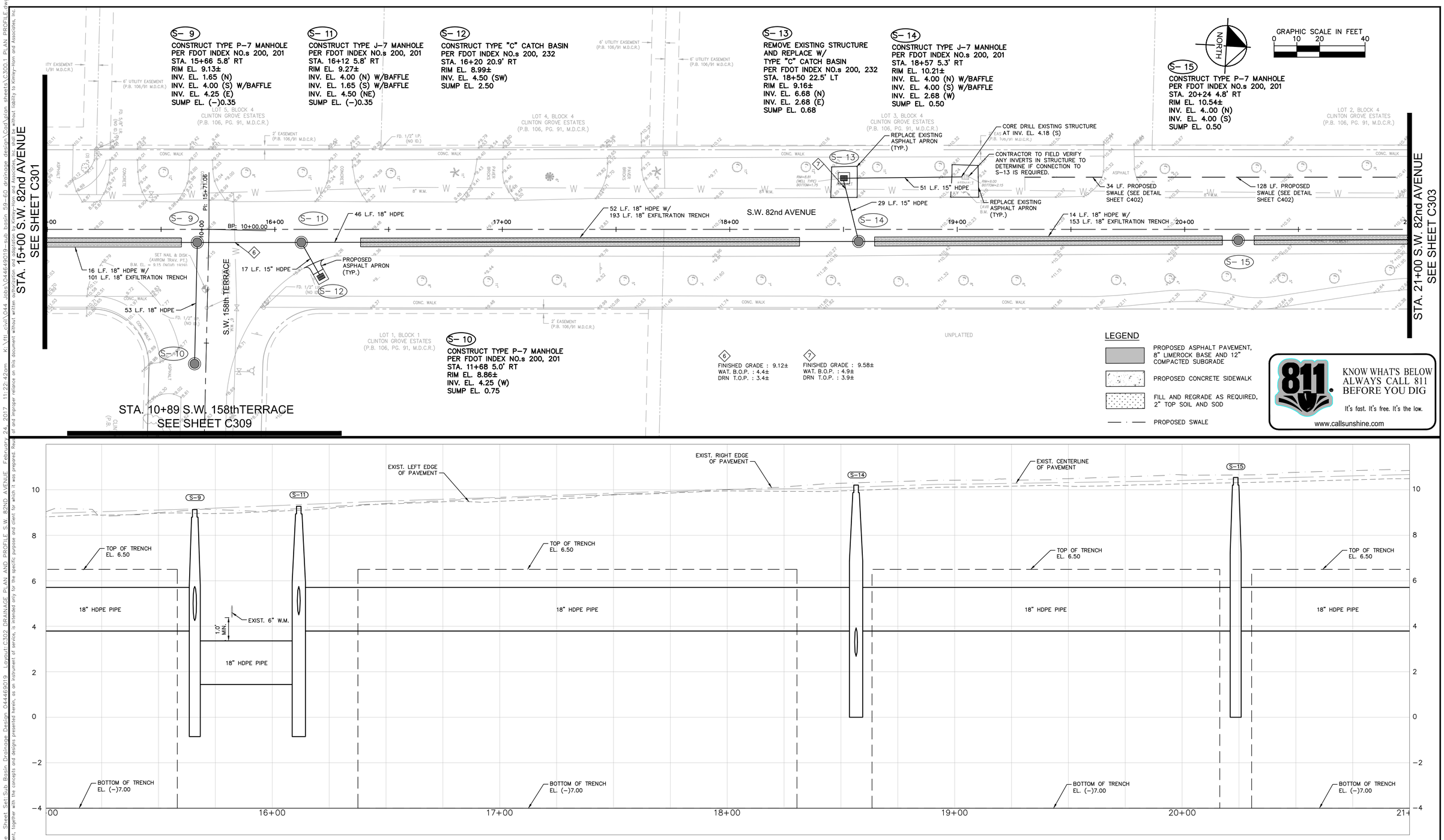

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DRAINAGE PLAN AND PROFILE
S.W. 82ND AVENUE

SHEET NUMBER
C302

Plotted By:Albino, Jaime Sheet Set:Sub Basin Drainage Design 043469019 Layout:C302 DRAINAGE PLAN AND PROFILE S.W. 82ND AVENUE February 24, 2017 11:22:42am K:\TU_civil\044 Jobs\043469019-sub basin 59-60 drainage design\Cad\plan sheets\C300.1 PLAN PROFILE.dwg
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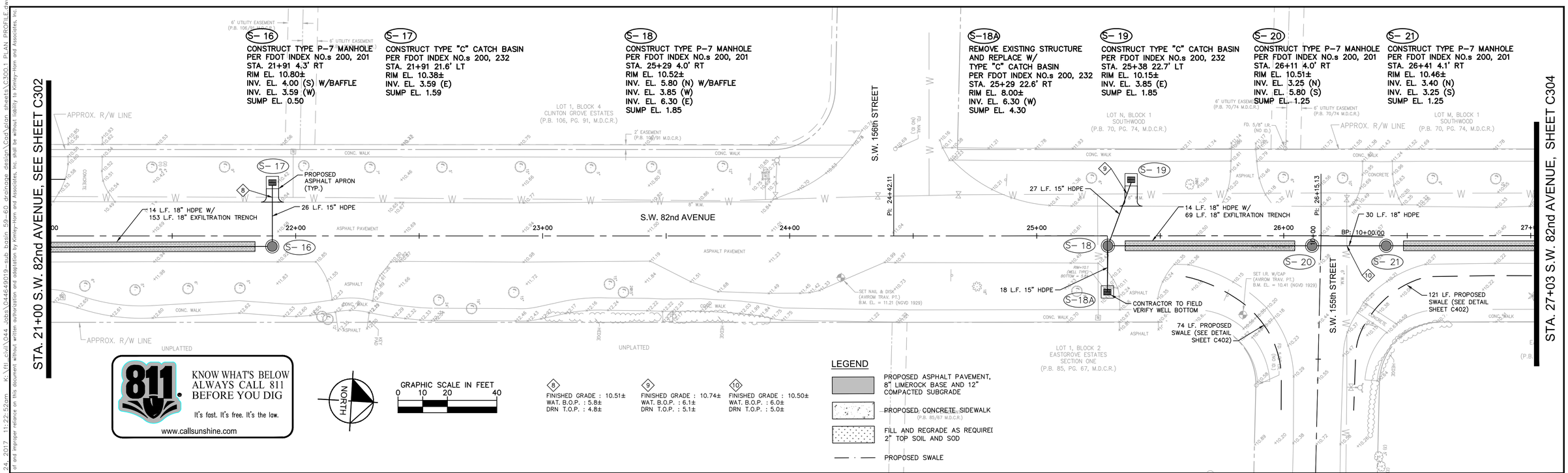

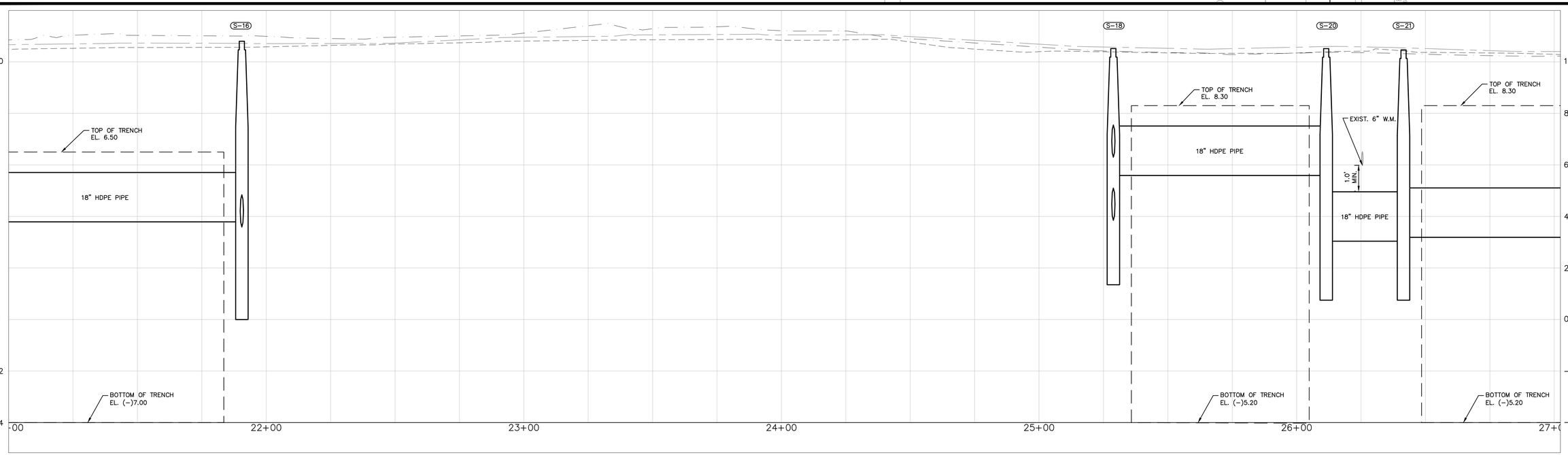

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DRAINAGE PLAN AND PROFILE
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SHEET NUMBER
C303

Plotted By:Albino, Jaime Sheet Set:Sub Basin Drainage Design 044469019 Layout:C303 DRAINAGE PLAN AND PROFILE S.W. 82ND AVENUE February 24, 2017 11:22:52am K:\TB_civil\044_jobs\044469019-sub basin 59-60 drainage design\Cad\plan sheets\C-300.1 PLAN PROFILE.dwg
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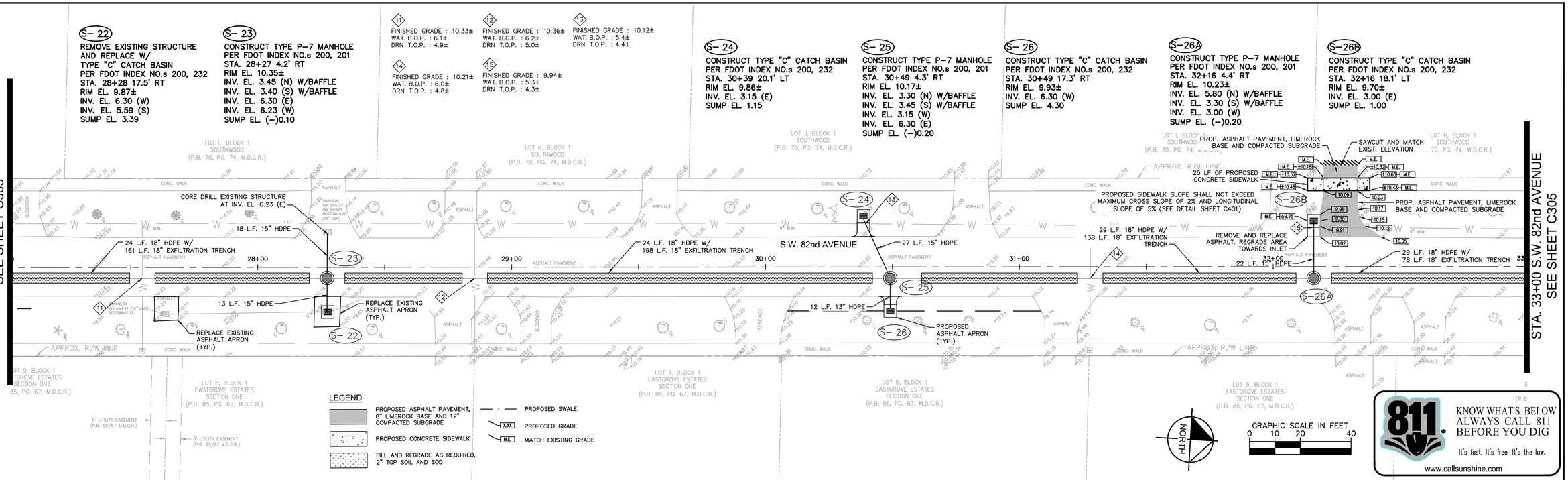

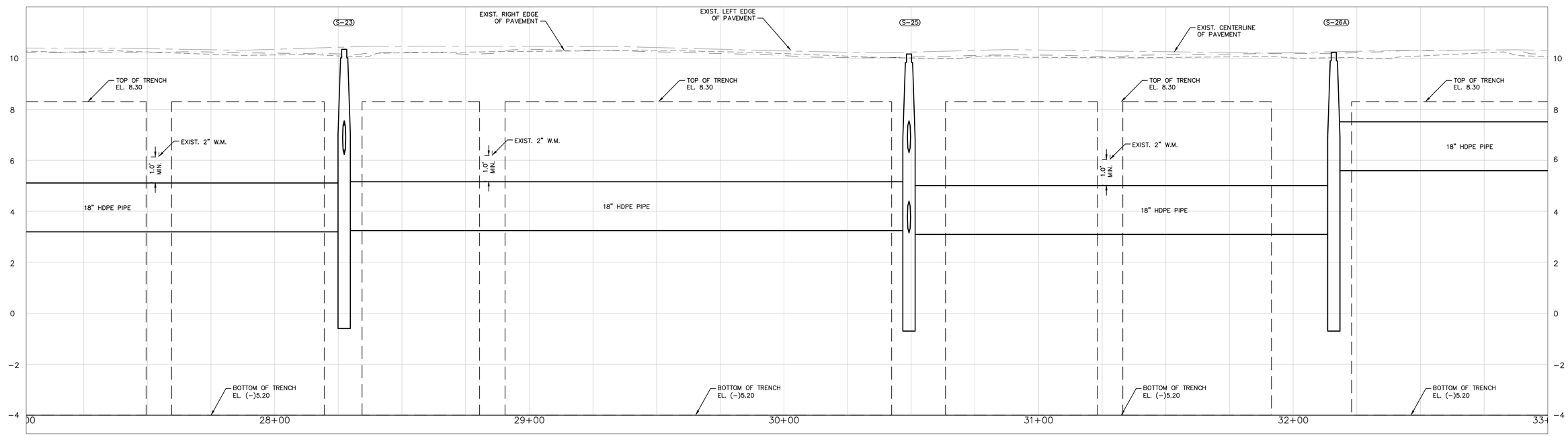

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DRAINAGE PLAN AND PROFILE
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SHEET NUMBER
C304

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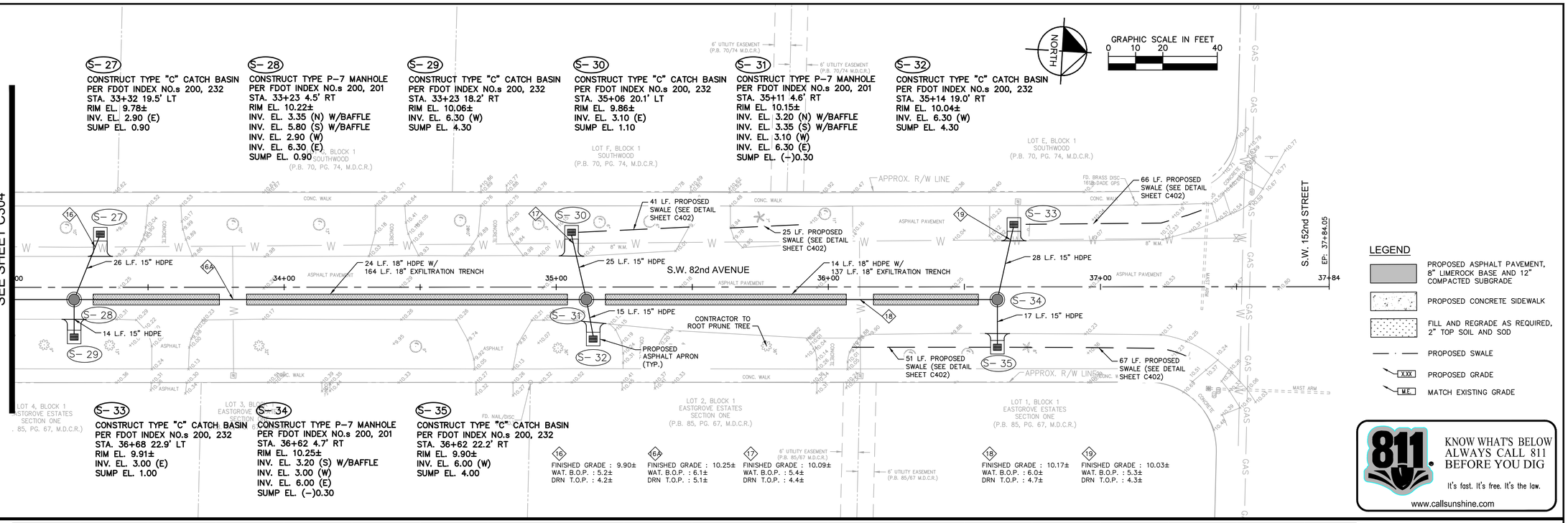

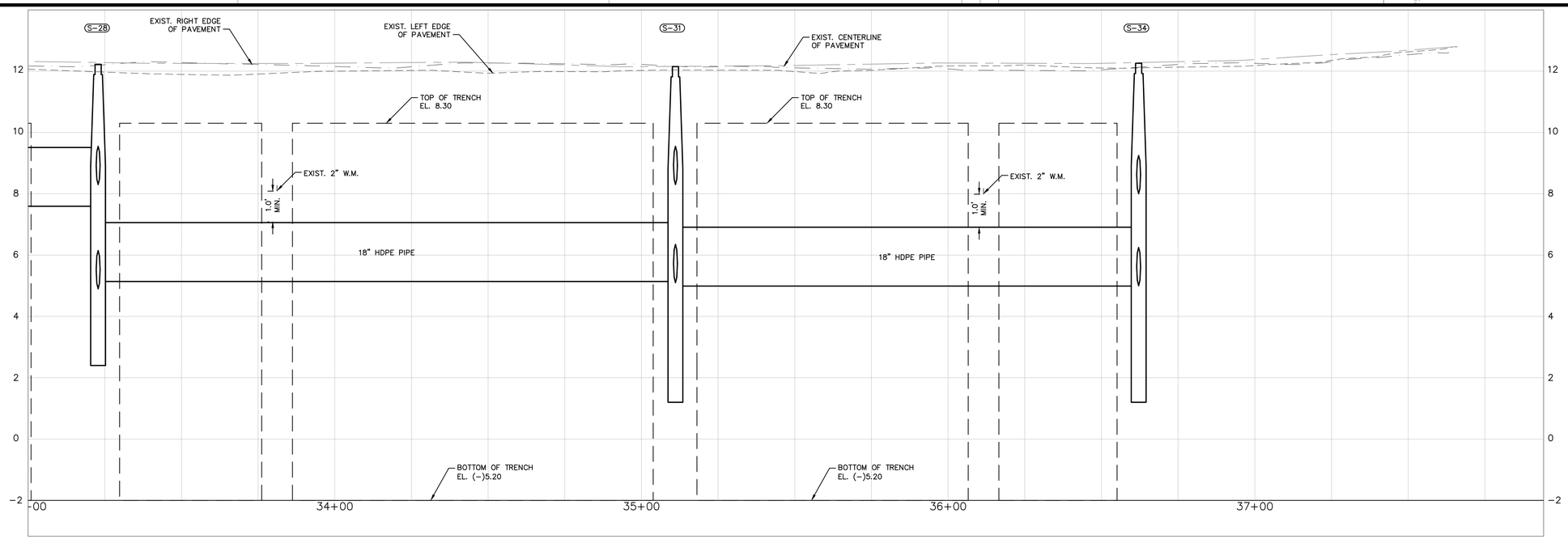

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DRAINAGE PLAN AND PROFILE
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SHEET NUMBER
C305

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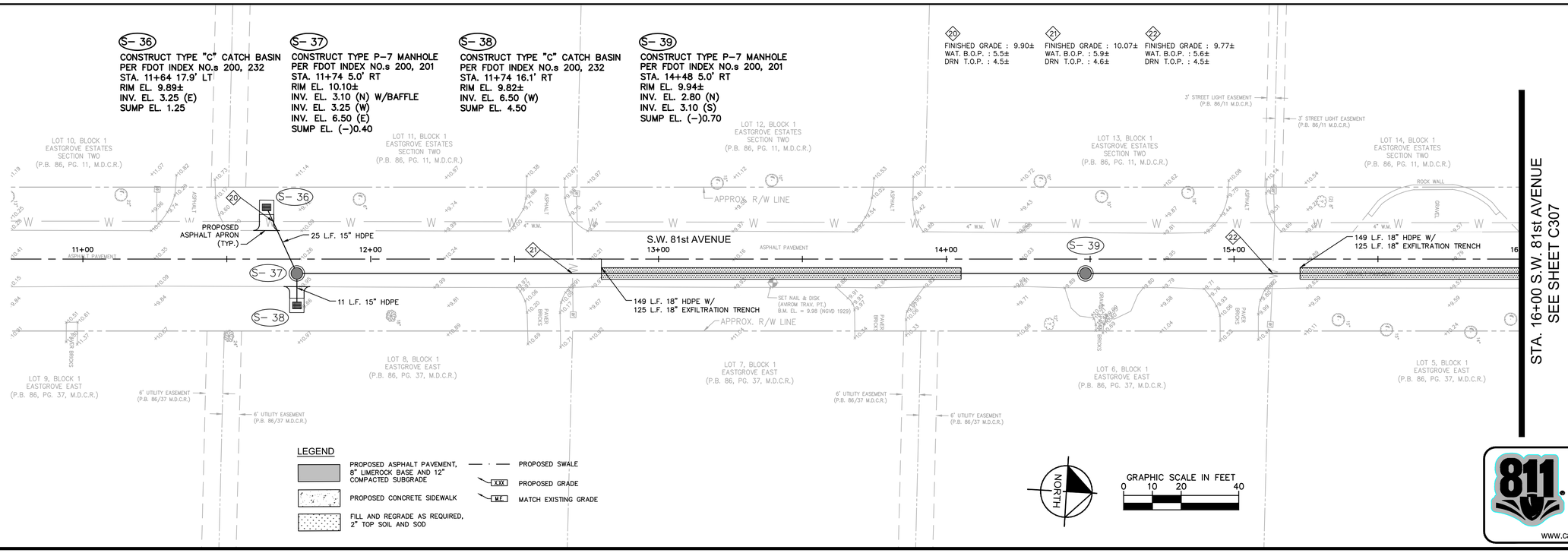

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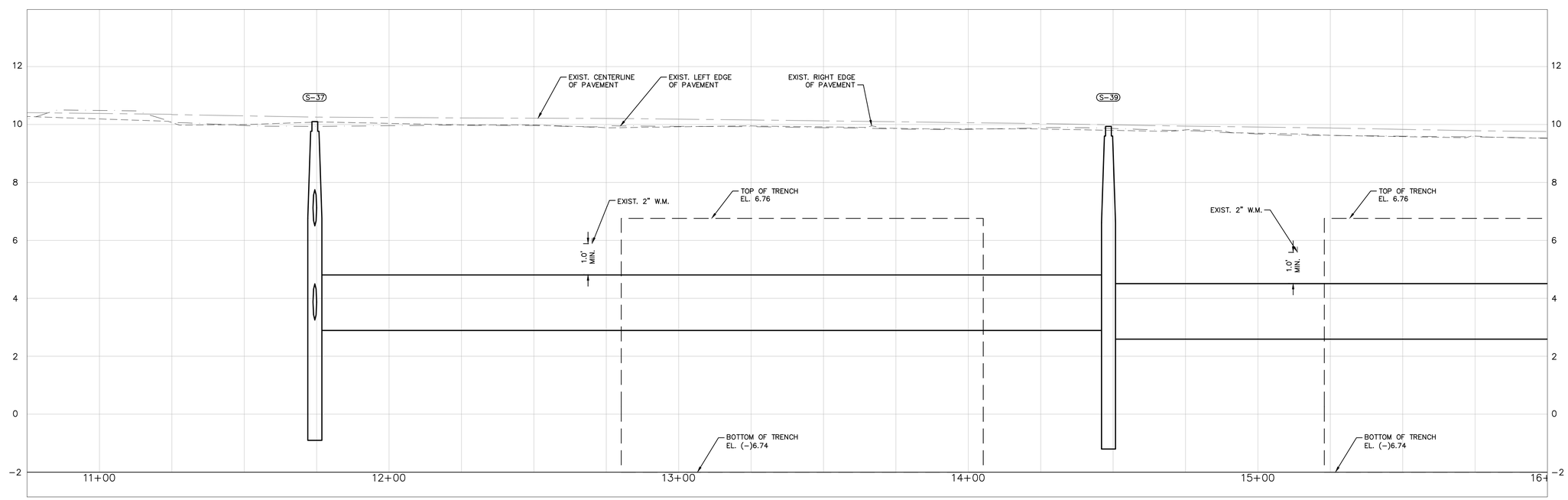

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DESIGNED BY	TJW
DRAWN BY	TJW
CHECKED BY	SFV

SUB-BASIN 50/60
PAVING AND DRAINAGE IMPROVEMENTS
PREPARED FOR
VILLAGE OF PALMETTO BAY
VILLAGE OF PALMETTO BAY FLORIDA

LICENSED PROFESSIONAL
STEFANO F. VIOLA
FLORIDA LICENSE NUMBER 74655
DATE: 2/13/2017

DRAINAGE PLAN AND PROFILE
S.W. 81ST AVENUE

SHEET NUMBER
C306

Plotted By:Albino, Jaime Sheet Set:Sub Basin Drainage Design 04469019 Layout:C306 DRAINAGE PLAN AND PROFILE S.W. 81ST AVENUE February 24, 2017 11:23:24am K:\TI_civil\044 Jobs\04469019-sub basin 59-60 drainage design\Cad\plan sheets\C3001 PLAN PROFILE.dwg
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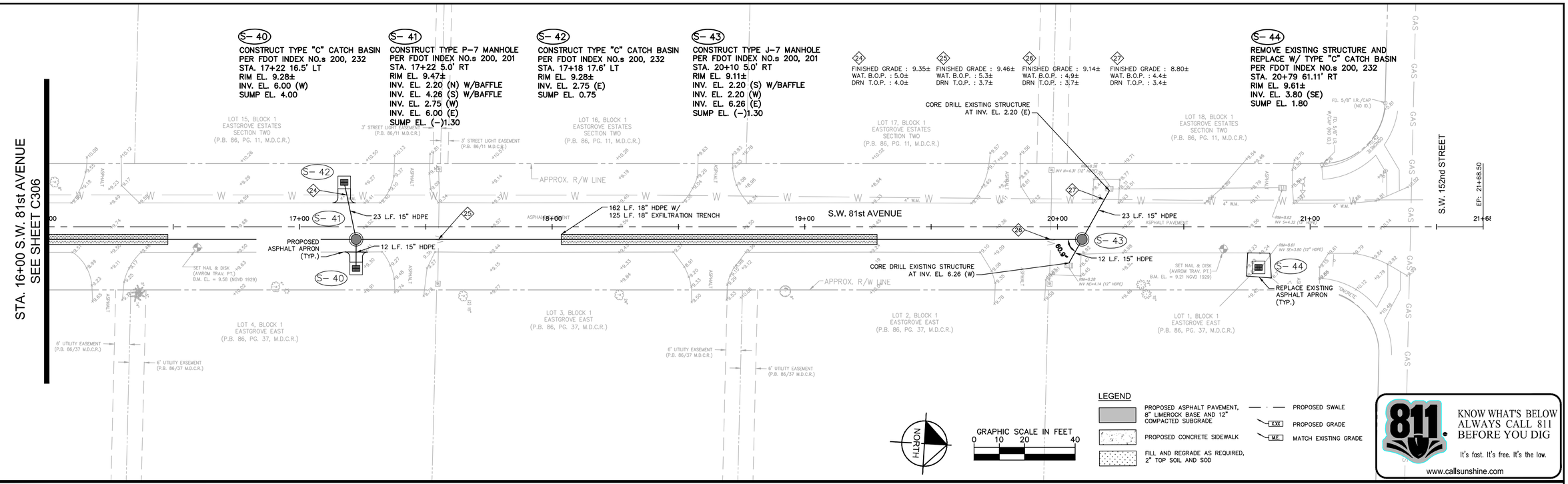

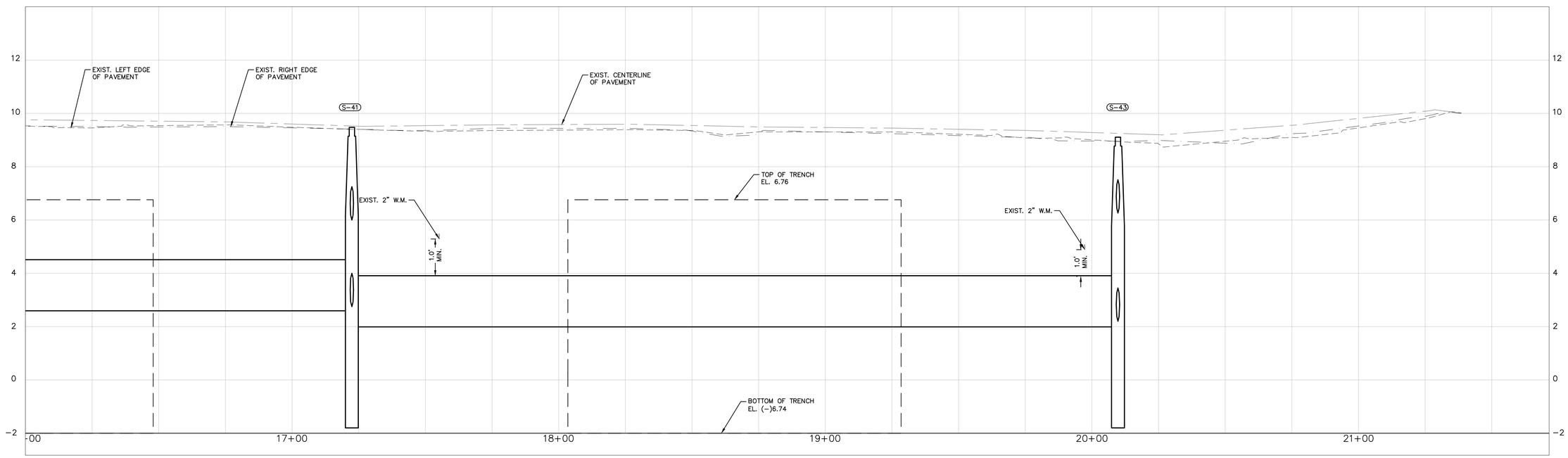

SW 81ST AVENUE PROFILE

No.	REVISIONS	DATE	BY

Kimley»Horn

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KHA PROJECT 043469019
DATE FEB 2017
SCALE AS SHOWN
DESIGNED BY TJW
DRAWN BY TJW
CHECKED BY SFV

SUB-BASIN 50/60
PAVING AND DRAINAGE IMPROVEMENTS
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STEFANO F. VIOLA
FLORIDA LICENSE NUMBER 74655
DATE: 2/13/2017

DRAINAGE PLAN AND PROFILE
S.W. 81ST AVENUE

SHEET NUMBER
C307

Plotted By:Albino, Jaime Sheet Set:Sub Basin Drainage Design 04469019 Layout:C307 DRAINAGE PLAN AND PROFILE S.W. 81ST AVENUE February 24, 2017 11:23:34am K:\TU_civil\044 Jobs\04469019-sub basin 59-60 drainage design\Cad\plan sheets\C300 PLAN PROFILE.dwg
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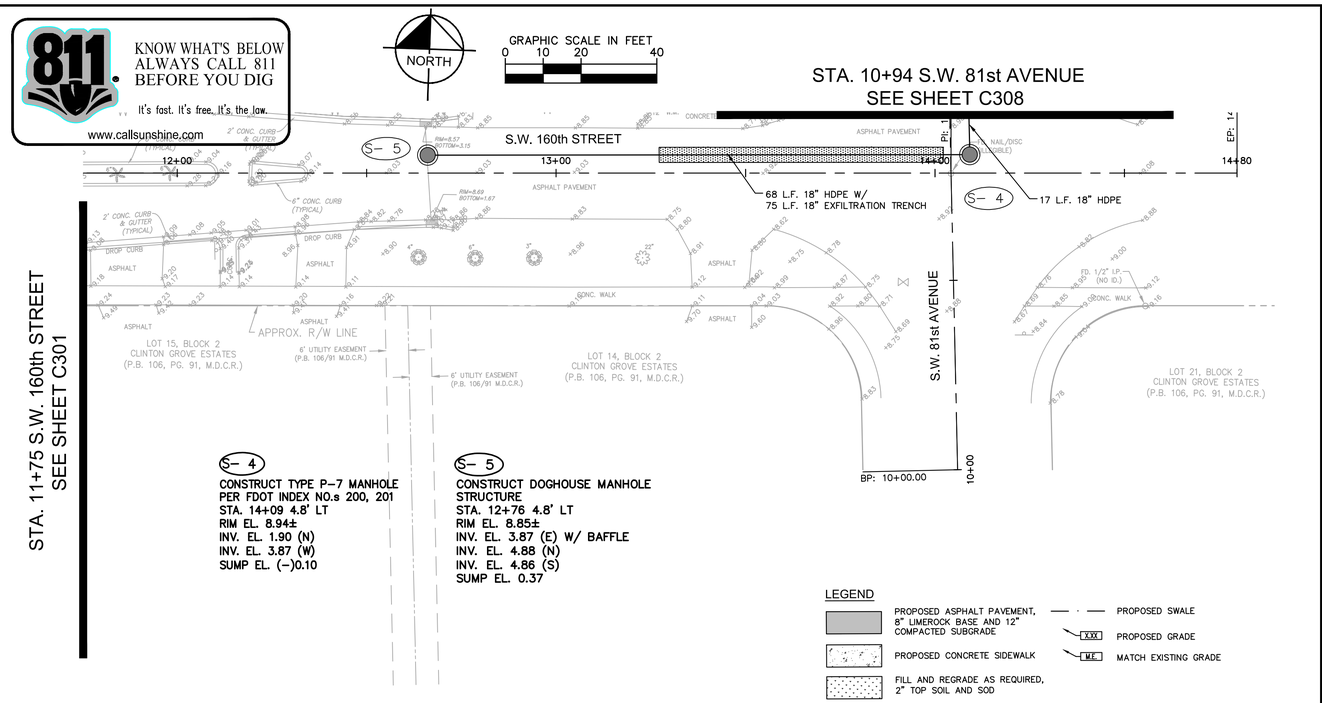
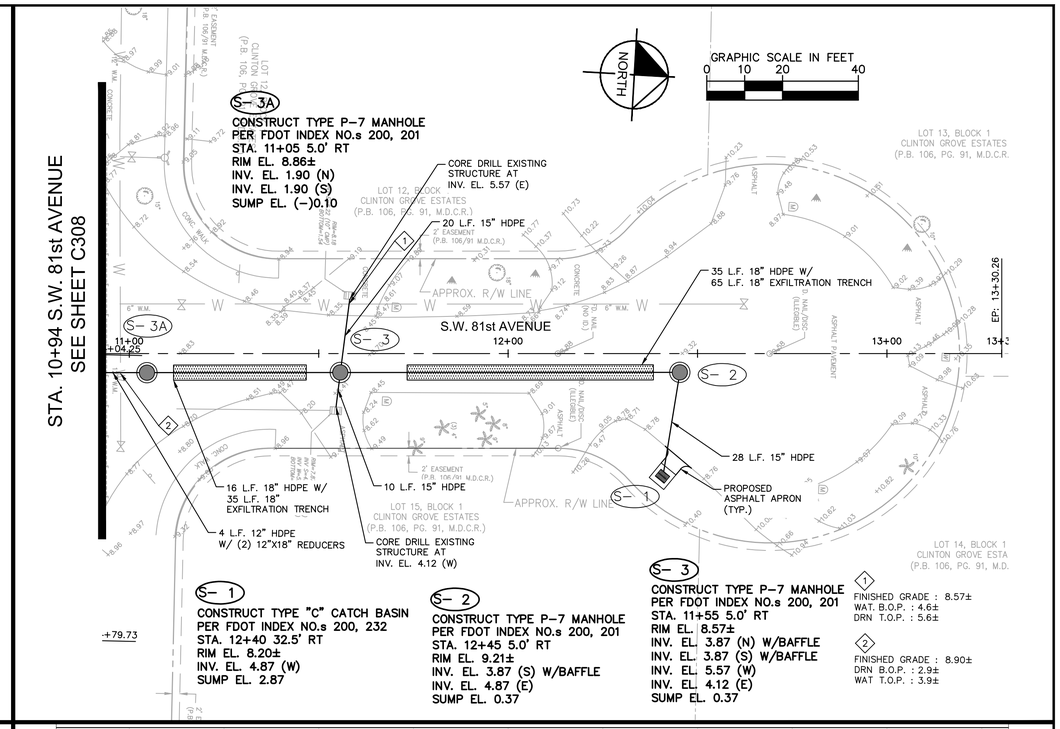


S-4
CONSTRUCT TYPE P-7 MANHOLE
PER FDOT INDEX NO.s 200, 201
STA. 14+09 4.8' LT
RIM EL. 8.94±
INV. EL. 1.90 (N)
INV. EL. 3.87 (W)
SUMP EL. (-)0.10

S-5
CONSTRUCT DOGHOUSE MANHOLE
STRUCTURE
STA. 12+76 4.8' LT
RIM EL. 8.85±
INV. EL. 3.87 (E) W/ BAFFLE
INV. EL. 4.88 (N)
INV. EL. 4.86 (S)
SUMP EL. 0.37

LEGEND

- PROPOSED ASPHALT PAVEMENT, 8" LIMEROCK BASE AND 12" COMPACTED SUBGRADE
- PROPOSED CONCRETE SIDEWALK
- FILL AND REGRADE AS REQUIRED, 2" TOP SOIL AND SOD
- PROPOSED SWALE
- XX.X PROPOSED GRADE
- M.E. MATCH EXISTING GRADE



S-3A
CONSTRUCT TYPE P-7 MANHOLE
PER FDOT INDEX NO.s 200, 201
STA. 11+05 5.0' RT
RIM EL. 8.86±
INV. EL. 1.90 (N)
INV. EL. 1.90 (S)
SUMP EL. (-)0.10

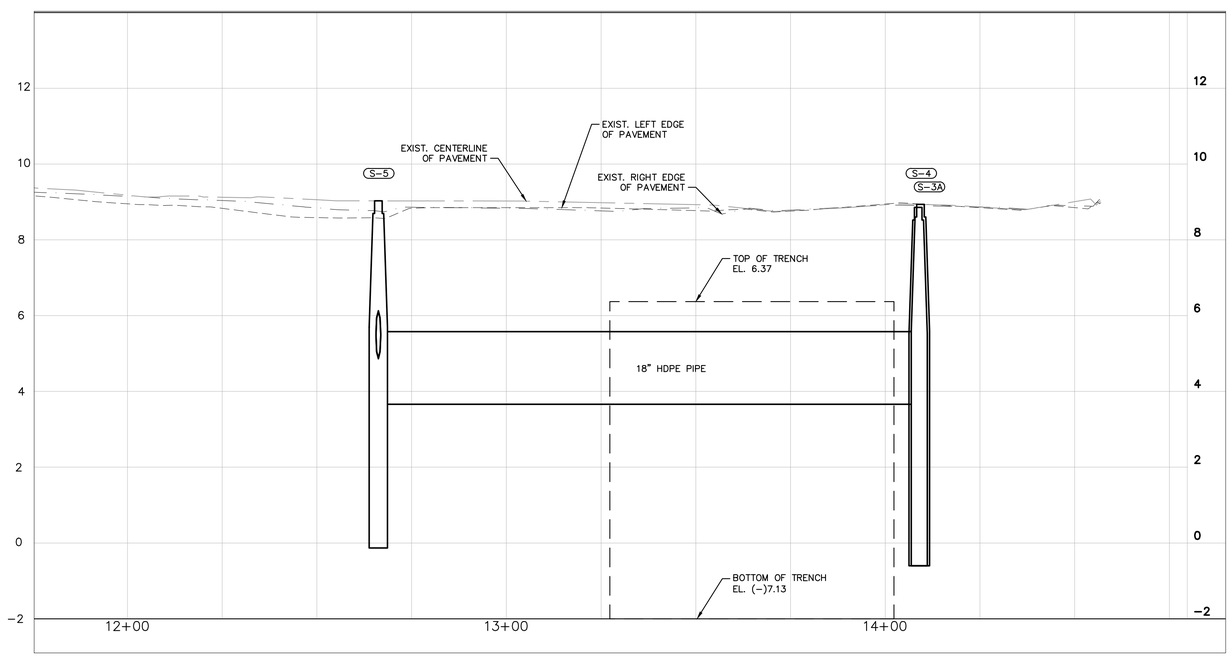
S-1
CONSTRUCT TYPE "C" CATCH BASIN
PER FDOT INDEX NO.s 200, 232
STA. 12+40 32.5' RT
RIM EL. 8.20±
INV. EL. 4.87 (W)
SUMP EL. 2.87

S-2
CONSTRUCT TYPE P-7 MANHOLE
PER FDOT INDEX NO.s 200, 201
STA. 12+45 5.0' RT
RIM EL. 9.21±
INV. EL. 3.87 (S) W/BAFFLE
INV. EL. 4.87 (E)
SUMP EL. 0.37

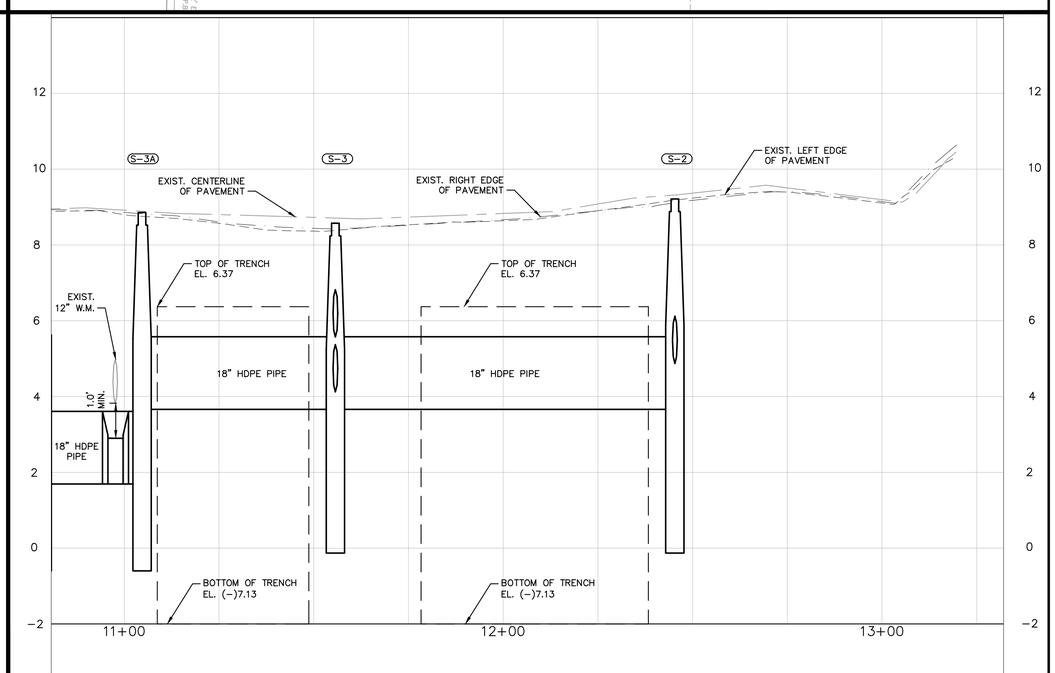
S-3
CONSTRUCT TYPE P-7 MANHOLE
PER FDOT INDEX NO.s 200, 201
STA. 11+55 5.0' RT
RIM EL. 8.57±
INV. EL. 3.87 (N) W/BAFFLE
INV. EL. 3.87 (S) W/BAFFLE
INV. EL. 5.57 (W)
INV. EL. 4.12 (E)
SUMP EL. 0.37

1 FINISHED GRADE : 8.57±
WAT. B.O.P. : 4.6±
DRN T.O.P. : 5.6±

2 FINISHED GRADE : 8.90±
DRN B.O.P. : 2.9±
WAT T.O.P. : 3.9±



SW 160TH STREET PROFILE



SW 81ST AVENUE PROFILE

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Kimley»Horn

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KHA PROJECT	043469019
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VILLAGE OF PALMETTO BAY FLORIDA

LICENSED PROFESSIONAL
STEFANO F. VIOLA
FLORIDA LICENSE NUMBER
74655
DATE: 2/13/2017

DRAINAGE PLAN AND PROFILE S.W. 160TH STREET

SHEET NUMBER
C308

Plotted By:Albino, Jaime Sheet Set:Sub Basin Drainage Design 04469019 Layout:C308 DRAINAGE PLAN AND PROFILE S.W. 160TH STREET February 24, 2017 11:23:49am K:\tlh_civil\044 Jobs\04469019-sub basin 59-60 drainage design\Cad\Civil3d sheets\C3001 PLAN PROFILE.dwg
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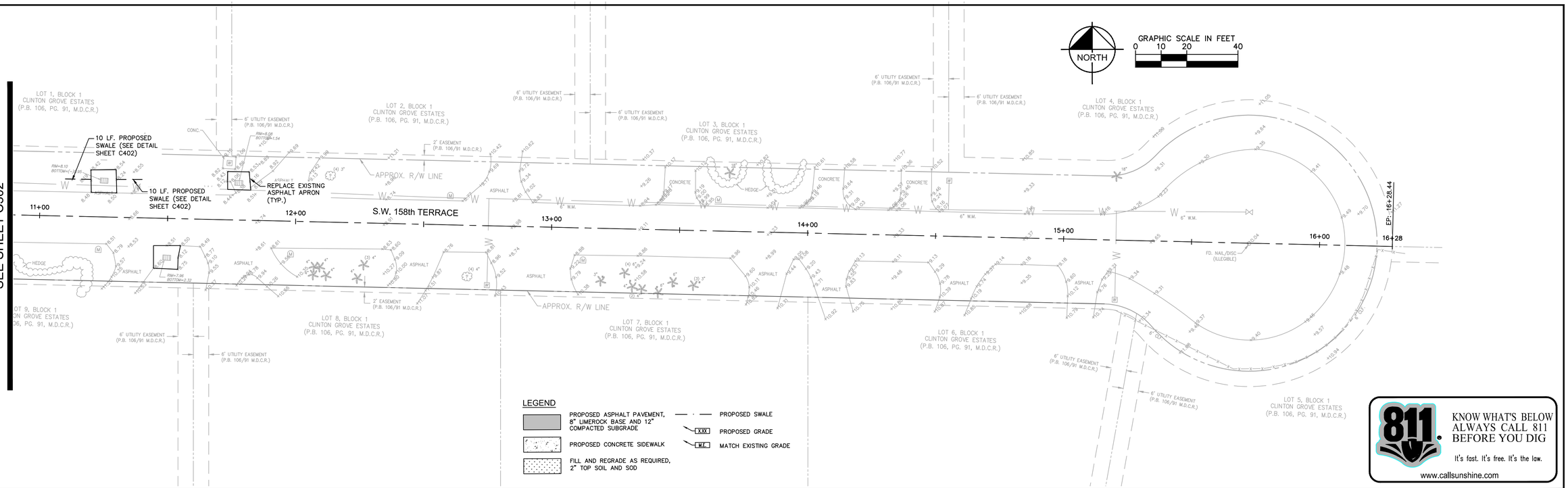

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KHA PROJECT	043469019
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SUB-BASIN 50/60
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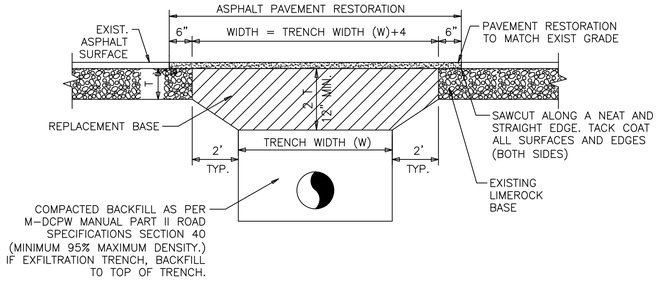
VILLAGE OF PALMETTO BAY FLORIDA

LICENSED PROFESSIONAL
STEFANO F. VIOLA
FLORIDA LICENSE NUMBER
74655
DATE: 2/13/2017

DRAINAGE PLAN AND PROFILES
S.W. 158TH TERRACE

SHEET NUMBER
C309

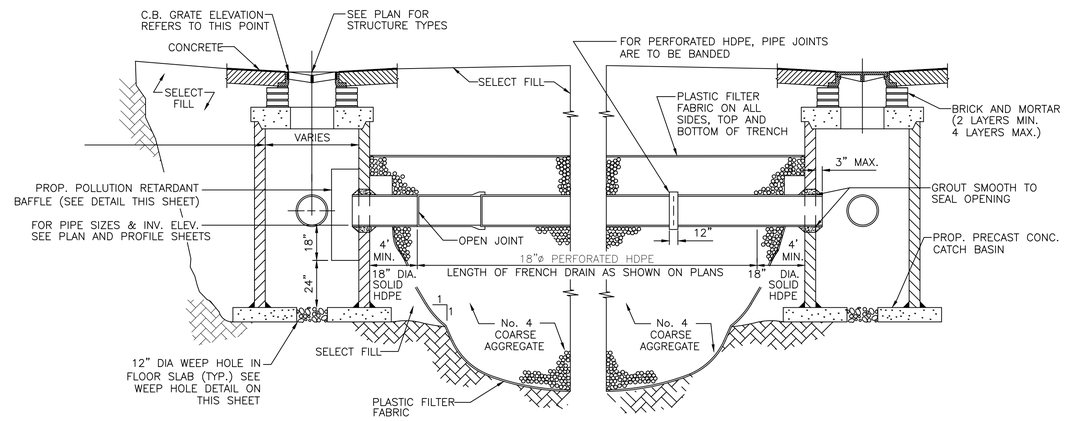


GENERAL NOTES :

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. PAVEMENT MATERIAL SHALL BE FDOT TYPE SP-9.5 (FINE MIX) ASPHALTIC CONCRETE STRUCTURAL COURSE (1" THICK). MATCH EXISTING GRADES AT LIMIT OF SAWCUT.
6. UPON COMPLETION OF TRENCHING AND TRENCH/PAVEMENT RESTORATION FOR THE ENTIRE PROJECT, RESURFACE ENTIRE ROADWAY WIDTH WITH FDOT TYPE SP-9.5 (FINE MIX) ASPHALTIC CONCRETE SURFACE COURSE OVERLAY (1" 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 THE FDOT TYPE SP-9.5 (FINE MIX) ASPHALTIC CONCRETE SURFACE COURSE OVERLAY WILL BE PAID SEPARATELY.
8. WHEN TRENCHING OUTSIDE THE PAVEMENT AREA, ASPHALT AND BASE MATERIAL REFERENCED IN GENERAL NOTES 1-5 ARE NOT REQUIRED. RESTORE OR REPLACE ALL PUBLIC OR PRIVATE PROPERTY TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO COMMENCEMENT OF CONSTRUCTION. ALL IMPACTED AREAS SHALL BE COMPACTED TO 95% DENSITY IN 6-INCH MAXIMUM LIFTS.
9. CONTRACTOR SHALL REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL SOILS INFORMATION TO UNDERSTAND EXISTING CONDITIONS.

TRENCH / PAVEMENT RESTORATION

SCALE: N.T.S.

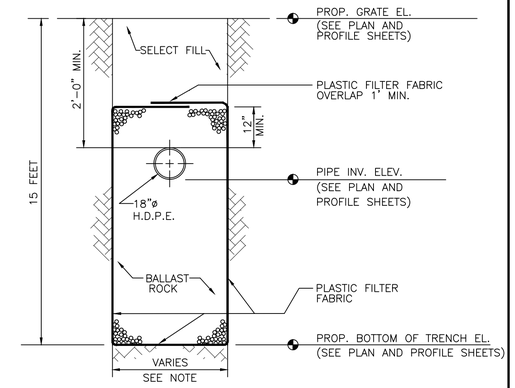


LONGITUDINAL SECTION

SCALE: N.T.S.

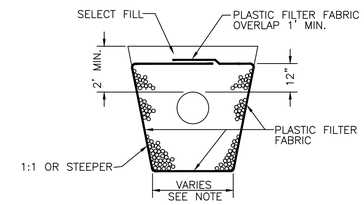
NOTE

1. AFTER THE No. 4 COARSE AGGREGATE HAS BEEN PLACED TO THE PROPER ELEVATION IT SHALL BE CAREFULLY WASHED DOWN WITH CLEAN WATER TO ALLOW FOR INITIAL SETTLEMENT THAT MAY OCCUR. IF SETTLEMENT DOES TAKE PLACE, ADDITIONAL No. 4 COARSE AGGREGATE WILL BE ADDED TO RESTORE THE PROPER ELEVATION SO THAT THE EXFILTRATION TRENCH IS COMPLETED IN ACCORDANCE WITH THE DETAILS.
2. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR THE DRAINAGE STRUCTURES. DRAINAGE STRUCTURES SHALL BE SIZED AS REQUIRED TO ACCOMMODATE THE SIZE, ANGLE AND NUMBER OF PIPES AND BAFFLES REQUIRED FOR EACH STRUCTURE.



TRANSVERSE SECTION

N.T.S.



ALT. TRANS. SECTION*

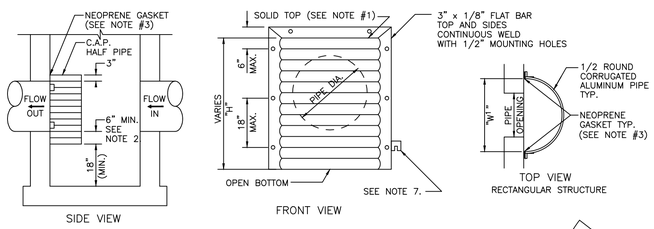
N.T.S.

*MAY BE USED IN AREAS WHERE TRENCH WALLS WILL NOT STAND VERTICAL, OR WHERE CAVE-IN BELOW THE WATER TABLE IS LIKELY TO OCCUR. TO BE USED AT THE ENGINEER'S DISCRETION.

NOTE:
WIDTH OF TRENCH TO BE 4-0' FOR 18" PIPE

TYPICAL CATCH BASIN AND EXFILTRATION TRENCH DETAIL

SCALE: N.T.S.

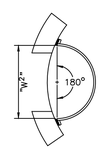


PIPE DIA.	W[1] (IN)	W[2] (IN)	T (GAUGE)	H (IN)
15"	21"	21"	16	VARIES
18"	24"	24"	16	VARIES
21"	30"	30"	16	VARIES
24"	30"	36"	16	VARIES
30"	36"	42"	14	VARIES
36"	42"	48"	14	VARIES
42"	48"	54"	14	VARIES
48"	54"	60"	14	VARIES
54"	60"	66"	14	VARIES

RECTANGULAR STRUCTURE
ROUND STRUCTURE

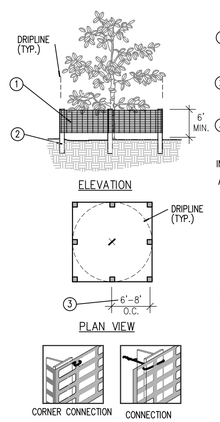
NOTES:

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" x 2") SHALL BE INSTALLED ON THE SIDES AND TOP OF ALL BAFFLES.
3. POLLUTION RETARDANT BAFFLE TO BE FASTENED IN PLACE WITH 3/8"x4" STAINLESS STEEL "RED HEADS", OR APPROVED EQUAL.
4. ALL EXFILTRATION 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.



POLLUTION RETARDANT BAFFLE DETAIL

SCALE: N.T.S.



1. 6'H "PERIMETER PLUS" CONSTRUCTION FENCE BY CONWED PLASTICS OR OWNER'S REPRESENTATIVE APPROVED EQUAL. SUBMIT PRODUCT INFORMATION FOR APPROVAL PRIOR TO INSTALLATION.
2. 8' TALL METAL "T" POSTS OR 2" x 2" X 8' PRESSURE TREATED WOOD POSTS WITH 24" BURIAL BELOW GRADE.
3. IF TREE DIAMETER EXCEEDS, 18-INCHES BARRIERS OF 10' TO 12' SHALL BE UTILIZED.

INSTALLATION NOTES:

A. POST SELECTION SHOULD BE BASED ON EXPECTED STRENGTH NEEDS AND THE LENGTH OF TIME FENCE WILL BE IN PLACE. FLEXIBLE FIBERGLASS ROD POSTS ARE RECOMMENDED FOR PARKS, ATHLETIC EVENTS AND CROWD CONTROL INSTALLATIONS. METAL "T" POSTS OR TREATED WOOD POSTS ARE TYPICALLY USED FOR CONSTRUCTION AND OTHER APPLICATIONS.

B. POSTS SHOULD BE DRIVEN INTO THE GROUND TO A DEPTH OF 1/4 OF THE HEIGHT OF THE POST. FOR EXAMPLE, A 8' POST SHOULD BE SET AT LEAST 2' INTO THE GROUND.

C. SPACE POSTS EVERY 6' (MIN.) TO 8' (MAX.).

D. SECURE FENCING TO POST WITH NYLON CABLE TIES (AVAILABLE FROM CONWED PLASTICS). WOOD STRIPS MAY BE ALSO BE USED TO PROVIDE ADDITIONAL SUPPORT AND PROTECTION BETWEEN TIES AND POSTS.

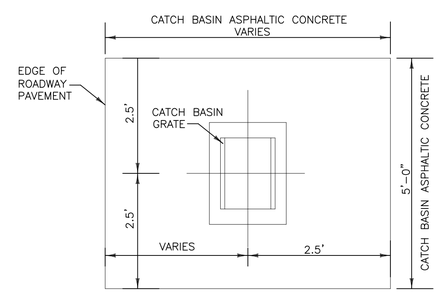
E. ALL EXISTING TREES WITHIN THE RIGHT-OF-WAY ARE TO REMAIN AND SHALL BE PROTECTED IN ACCORDANCE WITH THIS DETAIL.

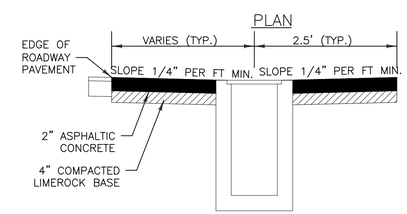
NOTE: IF WIRE TIES ARE USED, AVOID DIRECT CONTACT WITH FENCE. WIRE MAY DAMAGE FENCE OVER TIME.

Tree/Shrub Protector
Barrier Detail

TREE PROTECTION DETAIL

SCALE: N.T.S.





NOTES:

1. FRAME ELEVATIONS SHALL BE AT LEAST 3" BELOW SWALE ELEVATIONS.
2. FRAME ELEVATION SHALL BE AT LOW POINT OF CATCHBASIN APRON.
3. INSTALL CATCH BASIN APRON AROUND EACH PROPOSED CATCH BASIN AND ANY EXISTING CATCH BASIN THAT IS SHOWN TO REMAIN.
4. CATCH BASIN APRON TO BE PAID UNDER ITEM 524-1.
5. COST SHALL INCLUDE CONCRETE RETAINING WALLS IF REQUIRED BY THE ADJACENT GRADE.
6. LIMEROCK BASE TO BE COMPACTED TO 98% WITH A MIN. LBR OF 100.

ASPHALTIC CONCRETE CATCH BASIN APRON DETAIL

SCALE: N.T.S.

No.	REVISIONS	DATE	BY

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DATE FEB 2017
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PREPARED FOR
VILLAGE OF PALMETTO BAY
VILLAGE OF PALMETTO BAY FLORIDA

LICENSED PROFESSIONAL
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FLORIDA LICENSE NUMBER 74655
DATE: 2/13/2017

DETAIL SHEET

SHEET NUMBER
C400

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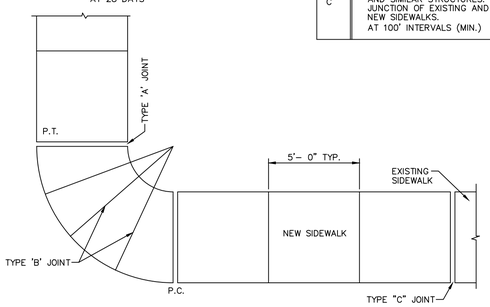
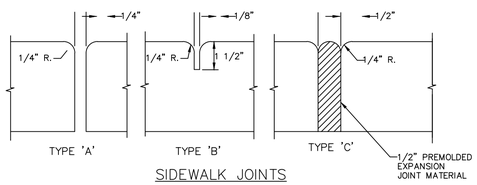
TABLE OF SIDEWALK THICKNESS – 'T'	
LOCATION	'T'
NON–TRAFFIC AREAS	4"
AT DRIVEWAYS AND OTHER AREAS	6"

TABLE OF SIDEWALK JOINTS	
TYPE	LOCATION
'A'	P.C. AND P.T. OF CURVES.
'B'	5'– 0" CENTER TO CENTER ON SIDEWALKS.
'C'	WHERE SIDEWALK ABUTS CONCRETE CURBS, DRIVEWAYS AND SIMILAR STRUCTURES. JUNCTION OF EXISTING AND NEW SIDEWALKS. AT 100' INTERVALS (MIN.)

NOTE: CONCRETE TO BE 3,000 P.S.I. AT 28 DAYS



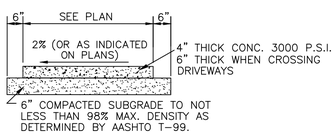
PLAN



SIDEWALK JOINTS

SIDEWALK CONSTRUCTION

N.T.S.



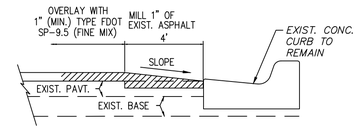
1. TOOLED JOINTS TO OCCUR AT INTERVALS EQUAL TO WIDTH OF SIDEWALK
2. SIDEWALK TO HAVE BROOM FINISH PERPENDICULAR TO PATH OF TRAVEL.

TYPICAL SIDEWALK CROSS-SECTION

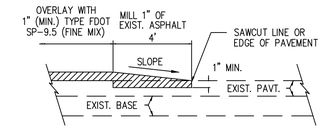
N.T.S.

NOTES:

1. CONTRACTOR SHALL REPAIR AND RESTORE ALL AREAS WITHIN THE ABUTTING R/W DISTURBED DURING CONSTRUCTION TO A CONDITION EQUAL TO OR BETTER THAN EXISTING AT NO ADDITIONAL COST TO THE OWNER.
2. SILT SCREENS SHALL BE USED WHERE NECESSARY TO PREVENT ADVERSE STORMWATER RUN–OFF FROM LEAVING THE SITE CONSTRUCTION.
3. ALL DEMOLISHED SIDEWALKS AND ADDITIONS ARE TO BE REPLACED WITH CONCRETE SIDEWALK TO MATCH EXISTING AT NO ADDITIONAL COST TO THE OWNER.
4. ALL DEMOLISHED SIDEWALK RAMPS ARE TO BE REPLACED AS PER ADA STANDARDS AND INCLUDE ADA COMPLIANT DETECTABLE WARNING AT NO ADDITIONAL COST TO OWNER.



ASPHALT TRANSITION DETAIL ADJACENT TO CURB



ASPHALT TRANSITION DETAIL AT BEGINNING/ENDING OF ASPHALT OVERLAY

NOTES:

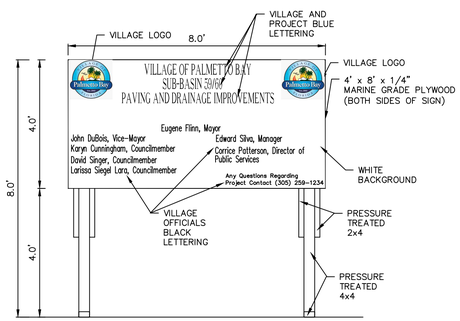
1) OVERLAY WITH FDOT TYPE SP–9.5 (FINE MIX) ASPHALTIC CONCRETE SURFACE COURSE (1" MIN. THICKNESS) AS SHOWN.

AT THE BEGINNING & END OF ASPHALT OVERLAY AND AT EDGE OF PAVEMENT ADJACENT TO CURBS, THE EXIST. PAVEMENT SHALL BE SAWCUT TO AN APPROXIMATE DEPTH OF 1" TO MAKE A CLEAN BUTT JOINT, & ENOUGH MATERIAL REMOVED FOR A SMOOTH TIE–IN AS SHOWN IN THE DETAIL.

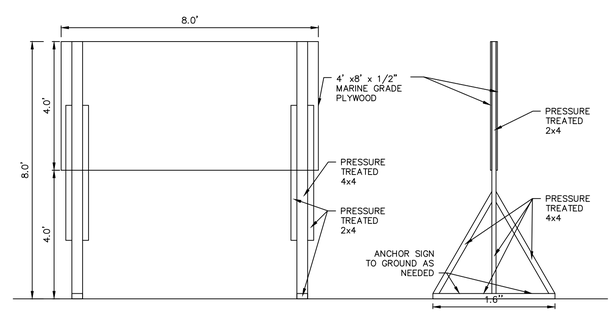
CONTRACTOR TO PROVIDE SMOOTH AND CONTINUOUS GRADING DURING ASPHALT OVERLAY PROCESS TO AVOID AREAS OF STANDING WATER. THE COST SHALL BE INCLUDED IN THE ASPHALTIC CONCRETE SURFACE COURSE OVERLAY PAY ITEM.

ASPHALT OVERLAY DETAILS

SCALE: N.T.S.



FRONT OF SIGN

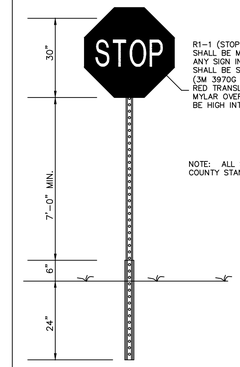


CROSS–SECTION

SIDE OF SIGN

PROJECT SIGN

SCALE: N.T.S.



R1–1 (STOP SIGN)30"x30" THE TOP OF THE STOP SIGN SHALL BE MOUNTED FLUSH TO THE TOP OF THE POST. ANY SIGN INSTALLED BACK TO BACK WITH THE STOP SIGN, SHALL BE SMALLER THAN THE STOP SIGN. DIAMOND GRADE (3M 3970G WHITE) OR EQUIVALENT, PRESSURE SENSITIVE RED TRANSLUCENT INK SILK SCREENED CLEAR COATED OR MYLAR OVER DIAMOND GRADE. ALL SIGN SURFACES SHALL BE HIGH INTENSITY REFLECTORIZED MATERIAL.

NOTE: ALL SIGNS SHALL BE INSTALLED PER MIAMI–DADE COUNTY STANDARD ROAD DETAIL 18.1.

GROUND MOUNTED SIGN DETAIL

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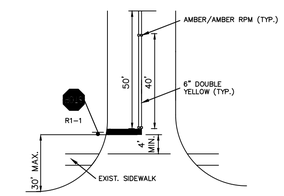

STOP BAR + STRIPING MARKING DETAIL

N.T.S.

NOTE: EXISTING STOP SIGNS AND STOP BARS SHALL BE RELOCATED AS NEEDED TO COMPLY WITH MINIMUM/MAXIMUM DIMENSIONS SHOWN

SIGNAGE AND PAVEMENT MARKING NOTES:

1. ALL STOP BARS SHALL BE LOCATED AS PER MIAMI–DADE COUNTY STANDARD DETAIL R18.2.
2. DETAILS IN FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) ROADWAY AND TRAFFIC DESIGN STANDARDS, AND MIAMI–DADE COUNTY PUBLIC WORKS MANUAL SHALL BE USED WHERE APPLICABLE.
3. ANY DAMAGE TO PUBLIC OR PRIVATE PROPERTY SHALL BE RESTORED BY THE CONTRACTOR AT NO EXPENSE TO OWNER.
4. THE CONTRACTOR SHALL NOTIFY "SUNSHINE STATE ONE CALL" (1–800–432–4770) 48 HOURS PRIOR TO PERFORMING ANY EXCAVATION OR GRADING OPERATIONS.
5. REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED AS NOTED IN PLANS AND DETAILS. ALL STRIPING SHALL BE THERMOPLASTIC.
6. REPAIR ANY POTHOLES IN AREA TO BE RESURFACED PRIOR TO RESURFACING.
7. 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.
8. ALL EXISTING PAVEMENT MARKINGS SHALL BE REPLACED FOLLOWING RESURFACING.

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No.	REVISIONS	DATE	BY

Kimley»Horn

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KHA PROJECT	044649019
DATE	FEB 2017
SCALE	AS SHOWN
DESIGNED BY	TJW
DRAWN BY	JLA
CHECKED BY	SFV

SUB-BASIN 50/60
PAVING AND DRAINAGE IMPROVEMENTS
PREPARED FOR
VILLAGE OF PALMETTO BAY

VILLAGE OF PALMETTO BAY FLORIDA

LICENSED PROFESSIONAL

STEFANO F. VIOLA

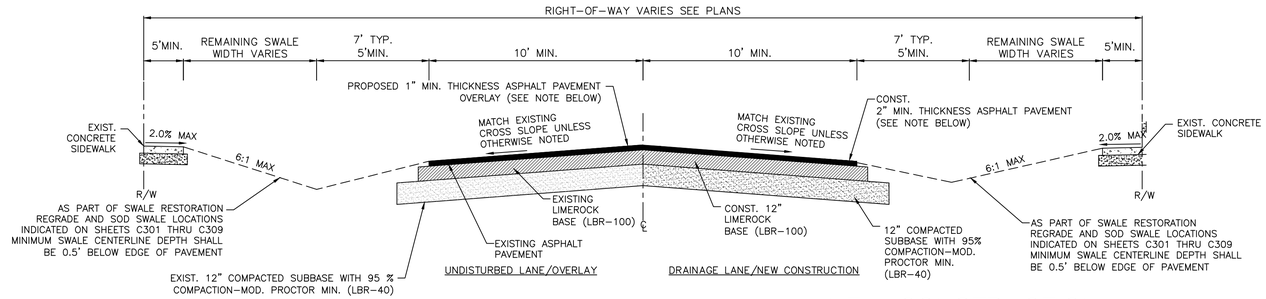
FLORIDA LICENSE NUMBER 74655

DATE: 2/13/2017

DETAIL SHEET

SHEET NUMBER

C401



OVERLAY:

1. OVERLAY WITH FDOT TYPE SP-9.5 (FINE MIX) ASPHALTIC CONCRETE SURFACE COURSE (1" MIN. THICKNESS)

2. PLEASE REFER TO GENERAL NOTES, APPLICABLE CODES, AND GEOTECHNICAL REQUIREMENTS PRIOR TO PAVEMENT CONSTRUCTION.

NEW CONSTRUCTION:

1. INSTALL 12" LIMEROCK BASE COURSE COMPACTED TO 98% WITH A MIN. LBR OF 100 AND 12" SUBBASE COMPACTED TO 95% WITH A MIN. LBR OF 40.

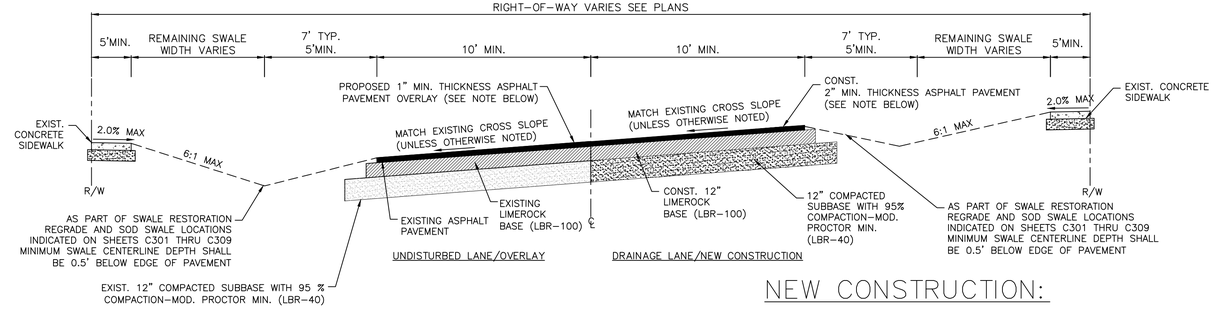
*REFER TO TRENCH/PAVEMENT RESTORATION DETAIL ON SHEET C400

2. NEW CONSTRUCTION PAVEMENT SECTION SHALL BE CONSTRUCTED WITH FDOT TYPE SP-9.5 (FINE MIX) STRUCTURAL COURSE (1" MIN. THICKNESS) AND FDOT TYPE SP-9.5 (FINE MIX) ASPHALTIC CONCRETE SURFACE COURSE OVERLAY (1" MIN. THICKNESS).

3. PLEASE REFER TO GENERAL NOTES, APPLICABLE CODES, AND GEOTECHNICAL REQUIREMENTS PRIOR TO PAVEMENT CONSTRUCTION.

TYPICAL ROADWAY CROSS-SECTION

N.T.S.



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TYPICAL ROADWAY CROSS-SECTION

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KHA PROJECT 044649019
DATE FEB 2017
SCALE AS SHOWN
DESIGNED BY TJW
DRAWN BY JLA
CHECKED BY SFV

SUB-BASIN 50/60
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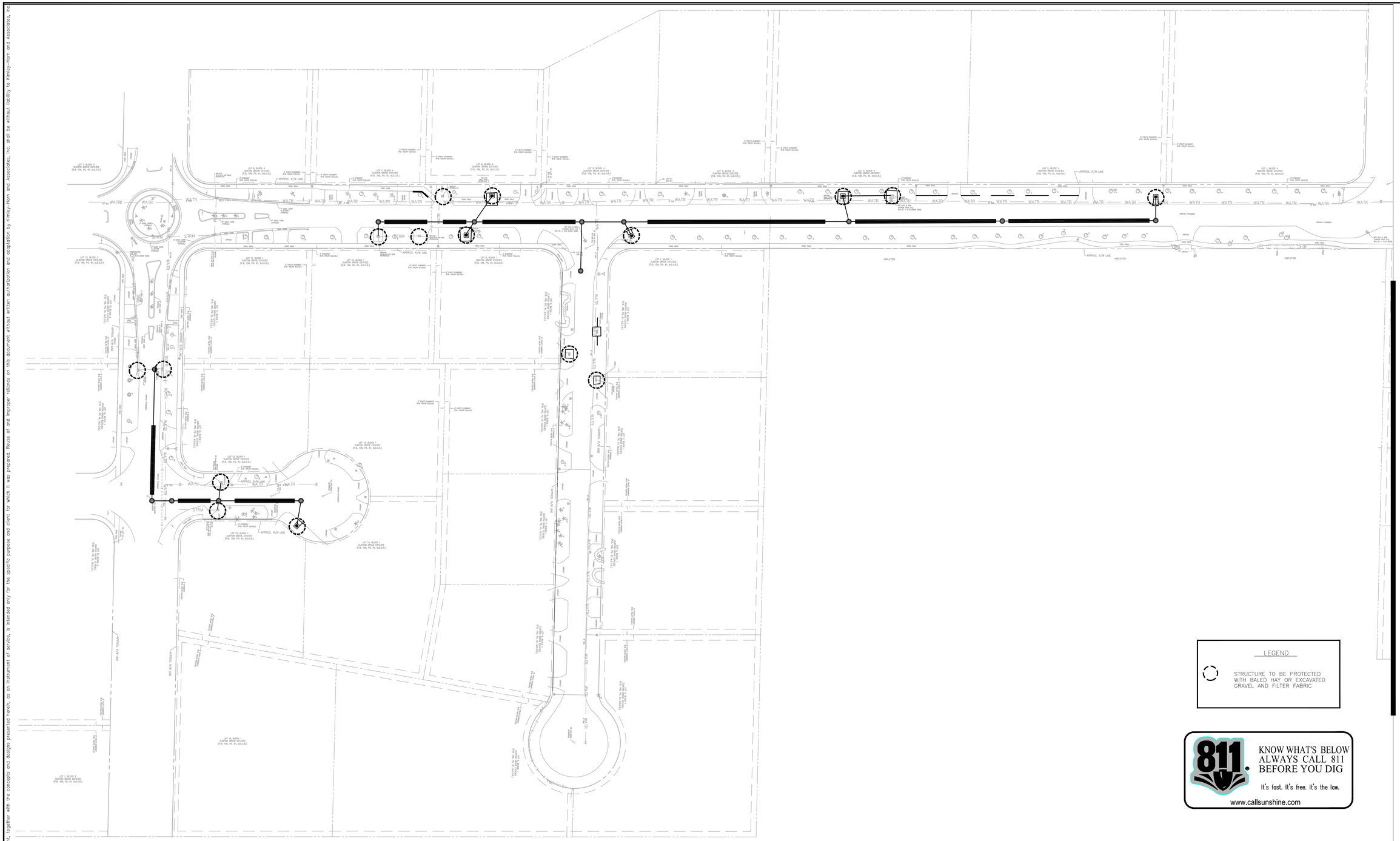
PREPARED FOR
VILLAGE OF PALMETTO BAY

VILLAGE OF PALMETTO BAY FLORIDA

LICENSED PROFESSIONAL
STEFANO F. VIOLA
FLORIDA LICENSE NUMBER 74655
DATE: 2/13/2017

TYPICAL CROSS SECTIONS

SHEET NUMBER
C402



LEGEND

STRUCTURE TO BE PROTECTED WITH BALED HAY OR EXCAVATED GRAVEL AND FILTER FABRIC

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STEFANO F. VIOLA

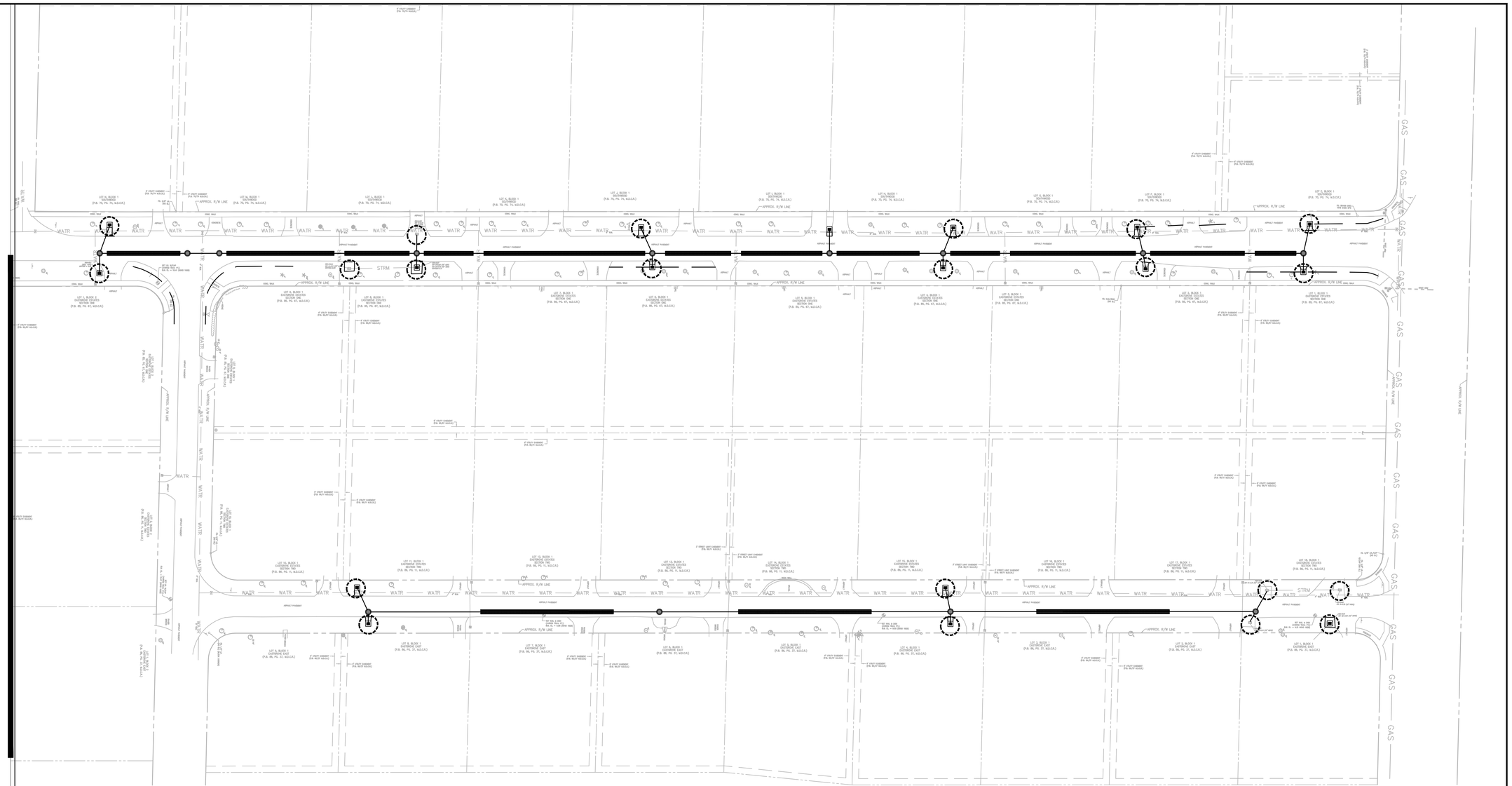
FLORIDA LICENSE NUMBER
74655

DATE: 2/13/2017

STORMWATER POLLUTION PREVENTION PLAN

SHEET NUMBER

C500



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LICENSED PROFESSIONAL

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FLORIDA LICENSE NUMBER 74655

DATE: 2/13/2017

STORMWATER POLLUTION PREVENTION PLAN

SHEET NUMBER

C501

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SITE DESCRIPTION

PROJECT NAME: Sub Basin 59/60 Roadway & Drainage Improvements

PROJECT LOCATION: Village of Palmetto Bay, Florida

OWNER LOCATION: Palmetto Bay

OWNER ADDRESS: 9705 Hibiscus Street
Palmetto Bay, FL 33014

PROJECT DESCRIPTION AND SOIL DISTRIBUTING ACTIVITIES:

This project consists of improvements to paving, drainage, underground, utilities.
New roadway pavement includes limerock base and asphaltic concrete as well as areas of milling existing asphaltic concrete and resurfacing. New drainage involves the excavation of trenches.

CURVE NUMBER: 39 FOR PERVIOUS AREA
CURVE NUMBER: 98 FOR IMPERVIOUS AREA
SITE AREA: 41.20± Acres
ROW Area 8.34± Acres

SEQUENCE OF MAJOR ACTIVITIES:

1. Install structural erosion control measures.
2. Install drainage structures, exfiltration and piping where shown on plans.
3. Install sidewalk and paving where shown on plans.
4. Install permanent landscaping throughout project.

CONTROLS

TEMPORARY STABILIZATION:

Disturbed portions of site where construction activity temporarily ceases 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.

PERMANENT STABILIZATION:

Disturbed portions of the site where construction activity permanently ceases shall be stabilized with sod no later than 14 days after the last construction activity.

STRUCTURAL PRACTICES

Baled hay will be placed around all drainage structures in the flow pattern of the area that is disturbed, or excavated gravel and filter fabric protection will be installed in the drainage structures.

Floating trubidity barrier will be installed around canal bank area to be disturbed during outfall and endwall construction.

STORM WATER MANAGEMENT

Stormwater drainage from the completed project will be provided by curb and gutter, catch basins and storm sewer. As part of the storm sewer installation, exfiltration trench will be constructed with pollution retardant baffles. and will discharge overflow into retention areas located within the project boundaries.

WASTE DISPOSAL:

Waste Materials:

Any waste materials will be handled and disposed of according to local ordinances. The contractor will be required to uphold and enforce any such ordinances.

Sanitary Waste:

All sanitary waste will be collected from the portable units by a licensed sanitary waste management contractor as required by local regulations.

Dewatering of Excavation:

All dewatering will use the well point system.

OFF-SITE VEHICLE TRACKING:

Dump trucks hauling material from the construction site will be covered with a tarpaulin. Prior to leaving the site, excess sediment shall be removed from trucks in the cleansing area indicated on the plans.

TIMING OF CONTROLS AND MEASURES

Baled hay or excavated gravel and filter fabric protection shall be placed at inlets where the possibility of runoff from a disturbed area exist, whether the runoff is generated by stormwater or dewatering activities.

Floating turbidity barrier shall be installed prior to construction and installation of drainage outfall pipe and endwall.

Existing drainage flow patterns and positive drainage to existing outfalls shall be maintained throughout construction.

CERTIFICATION OF COMPLIANCE WITH
FEDERAL, STATE AND LOCAL REGULATIONS

The stormwater pollution prevention plan reflects requirements for stormwater management and erosion and sediment control. This project complies with SFWMD, DPEP, FDEP and FDOT requirements.

MAINTENANCE/INSPECTION PROCEDURES

EROSION AND SEDIMENT CONTROL INSPECTION AND
MAINTENANCE PRACTICES

The erosion control features installed by the contractor shall be acceptably maintained by the contractor during the construction period.
Inspection of erosion measures (baled hay and turbidity barriers and silt fences) will occur daily throughout the construction period.

A maintenance inspection report will be made after each inspection, and the contractor will be responsible for keeping a weekly log of stormwater pollution and prevention control activities.

All measures will be maintained in good working order; if repair is necessary, it will be initiated within 24 hours of the report.

NON-STORMWATER DISCHARGES

It is expected that the following non-stormwater discharges will occur from the site during the construction period:

Uncontaminated groundwater (from dewatering excavation or truck cleansing)

All non-stormwater discharges will be directed through the baled hay and turbidity barriers.

INVENTORY FOR POLLUTION PREVENTION PLAN

The materials or substances listed below are expected to be present on-site during construction:

Concrete	Reinforcing Steel	Landscape and Plant Materials
Asphaltic Concrete	Concrete Drainage Structures	Polyethelene pipe
Asphalt	Concrete Pipe	PVC Conduit
Limerock	Sign Materials	
Pavement Marking Materials		

SPILL PREVENTION

MATERIAL MANAGEMENT PRACTICES

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 stormwater runoff.

GOOD HOUSEKEEPING:

The following good housekeeping practices will be followed on-site during the construction project.

An effort will be made to store only enough product required to do the job.
All materials stored on-site will be stored in a neat, orderly manner in their appropriate containers and, if possible, under a roof or other enclosure.
Products will be kept in their original containers with the original manufacturer's label.
Whenever possible, all of a product will be used up before disposing of the container.
Manufacturers' recommendations for proper use and disposal will be followed.
The site superintendent will inspect daily to ensure proper use and disposal of materials on-site.

HAZARDOUS PRODUCTS:

These practices are used to reduce the risks associated with hazardous materials.

Products will be kept in original containers unless they are not resealable.
Original labels and material safety data will be retained; they contain important product information.
If surplus product must be disposed of, manufacturers' or local and State recommended methods for proper disposal will be followed.

PETROLEUM PRODUCTS:

All on-site vehicles will be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage. Petroleum products will be stored in tightly sealed containers which are clearly labeled. Any asphalt substances used on-site will be applied according to the manufacturer's recommendations.

FERTILIZERS:

Fertilizers used will be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer will be worked into the soil to limit exposure to stormwater. Storage will be in a covered shed. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills.

PAINTS AND PAVEMENT MARKING MATERIAL:

All containers will be tightly sealed and stored when not required for use. Excess paint will not be discharged to the storm sewer system but will be properly disposed of according to manufacturers' instructions or State and local regulations.

CONCRETE TRUCKS:

Concrete trucks will not be allowed to wash out or discharge surplus concrete or drum wash water on the site.

SPILL CONTROL PRACTICES

In addition to the good housekeeping and material management practices discussed in the previous sections of this plan, the following practices will be followed for spill prevention and cleanup:

Manufacturers' recommended methods for spill cleanup will be clearly posted and site personnel will be made aware of the procedures and the location of the information and cleanup supplies.

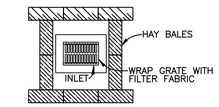
Materials and equipment necessary for spill cleanup will be kept in the material storage area on-site. Equipment and materials will include but not be limited to brooms, dust pans, mops, rags, gloves, goggles, kitty litter, sand, sawdust, and plastic and metal trash containers specifically for this purpose.

All spills will be cleaned up immediately after discovery.

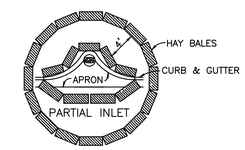
The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.

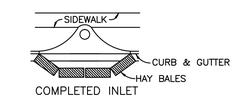
Spills of toxic of hazardous material will be reported to the appropriate State or local government agency, regardless of the size.

The spill prevention plan will be adjusted to include measures to prevent this type of spill from reoccurring and how to clean up the spill if there is another one. A description of the spill, what caused it, and the cleanup measures will also be included.



INLET





COMPLETED INLET

BALED HAY AROUND DRAINAGE STRUCTURES

MATERIALS

-HARDWARE CLOTH OR WIRE MESH WITH ½ INCH OPENINGS.

-FILTER FABRIC CONSISTING OF A PERVIOUS SHEET OF POLYPROPYLENE, NYLON, POLYESTER, OR POLYETHYLENE YARN CONFORMING TO THE FOLLOWING REQUIREMENTS:

PHYSICAL PROPERTY	REQUIREMENTS
FILTERING EFFICIENCY	75%-85% (MINIMUM)
TENSILE STRENGTH AT 20% (MAXIMUM) ELONGATION	30 LB/ LINEAR INCH (MINIMUM)
SLURRY FLOW RATE	0.3 GAL/SQ. FT/ MIN. (MINIMUM)

-WASHED GRAVEL ¾ INCHES TO 4 INCHES IN DIAMETER

CONSTRUCTION SPECIFICATIONS

-REMOVE ANY OBSTRUCTIONS TO EXCAVATION AND GRADING. EXCAVATED SUMP AREA, GRADE SLOPES AND PROPERLY DISPOSE OF SOIL.

-THE INLET GRATE SHOULD BE SECURED TO PREVENT SEEPAGE OF SEDIMENT LADEN WATER.

-PLACE WIRE MESH OVER THE INLET SO THAT THE WIRE EXTENDS A MINIMUM OF 1 FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE. OVERLAP STRIPS OF MESH IF MORE THAN ONE IS NECESSARY.

-PLACE FILTER FABRIC OVER THE MESH EXTENDING AT LEAST 18 INCHES BEYOND THE INLET OPENING ON ALL SIDES. ENSURE ANY WEEP HOLES IN INLET ARE PROTECTED BY FILTER FABRIC AND GRAVEL.

-PLACE GRAVEL OVER THE FABRIC/ WIRE MESH TO A DEPTH OF AT LEAST ONE FOOT.

EXCAVATED GRAVEL AND FILTER FABRIC
PROTECTION OF DRAINAGE STRUCTURES

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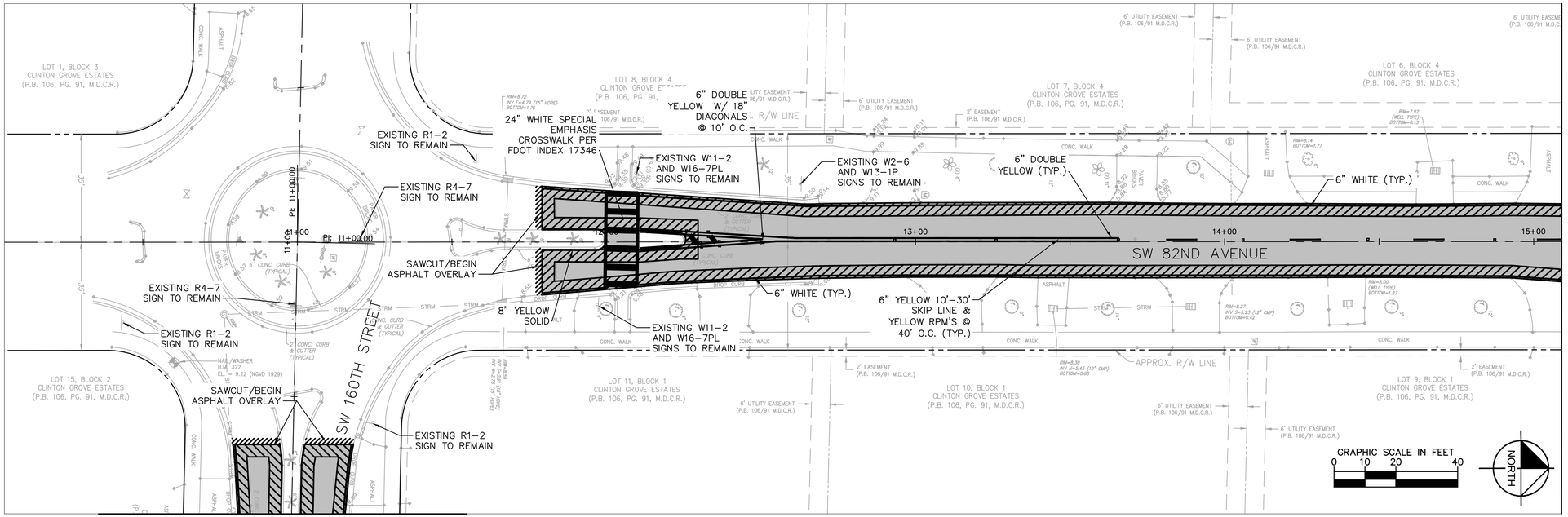
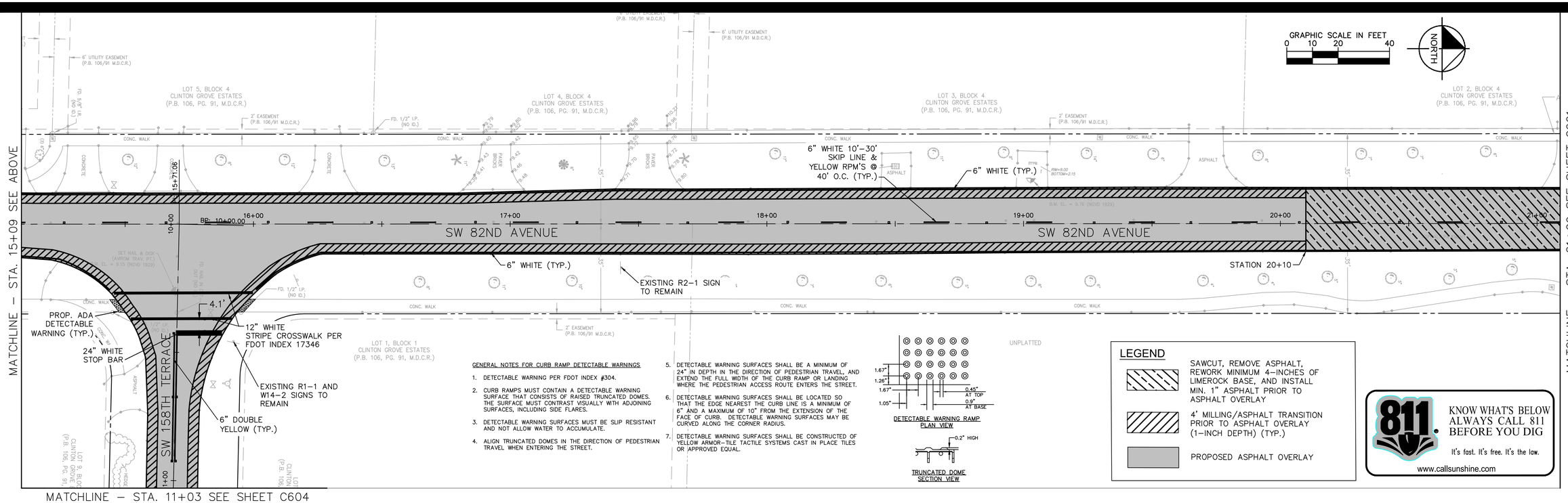
C502





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DETECTABLE WARNING RAMP PLAN VIEW

TRUNCATED DOME SECTION VIEW

LEGEND

- SAWCUT, REMOVE ASPHALT, REWORK MINIMUM 4-INCHES OF LIMEROCK BASE, AND INSTALL MIN. 1" ASPHALT PRIOR TO ASPHALT OVERLAY
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KHA PROJECT 044649019
DATE FEB 2017
SCALE AS SHOWN
DESIGNED BY MSM
DRAWN BY MSM
CHECKED BY SFV

SUB-BASIN 50/60
PAVING AND DRAINAGE IMPROVEMENTS
PREPARED FOR
VILLAGE OF PALMETTO BAY
VILLAGE OF PALMETTO BAY FLORIDA

LICENSED PROFESSIONAL
STEFANO F. VIOLA
FLORIDA LICENSE NUMBER 74655
DATE: 2/13/2017

SIGNING AND MARKING PLAN

SHEET NUMBER
C600

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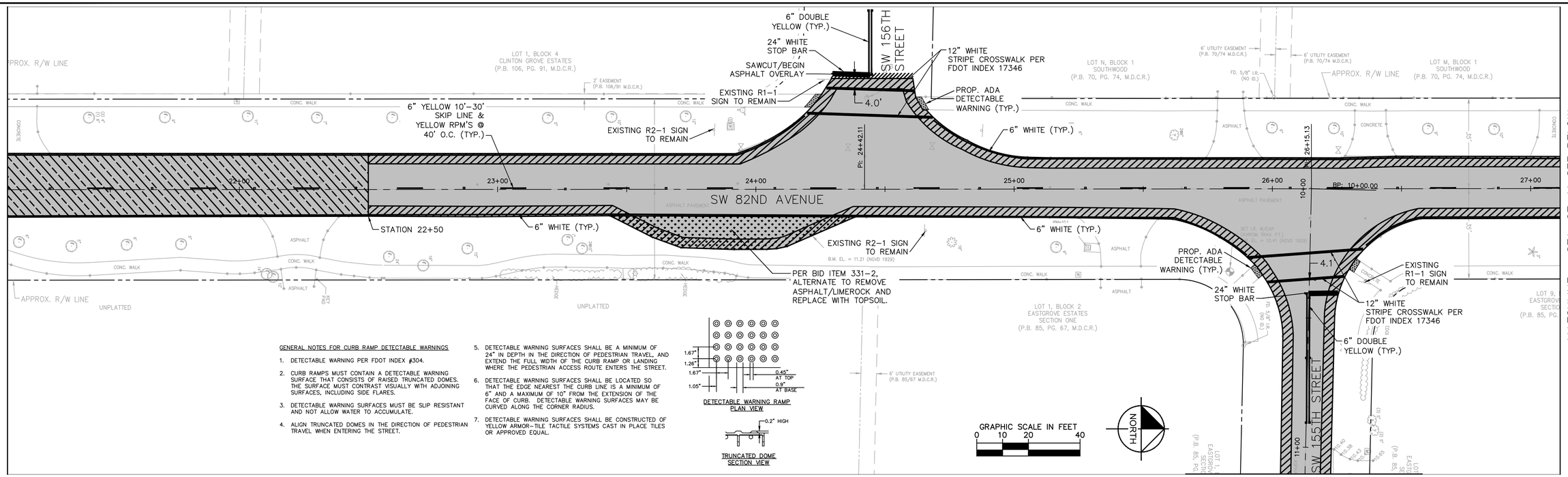

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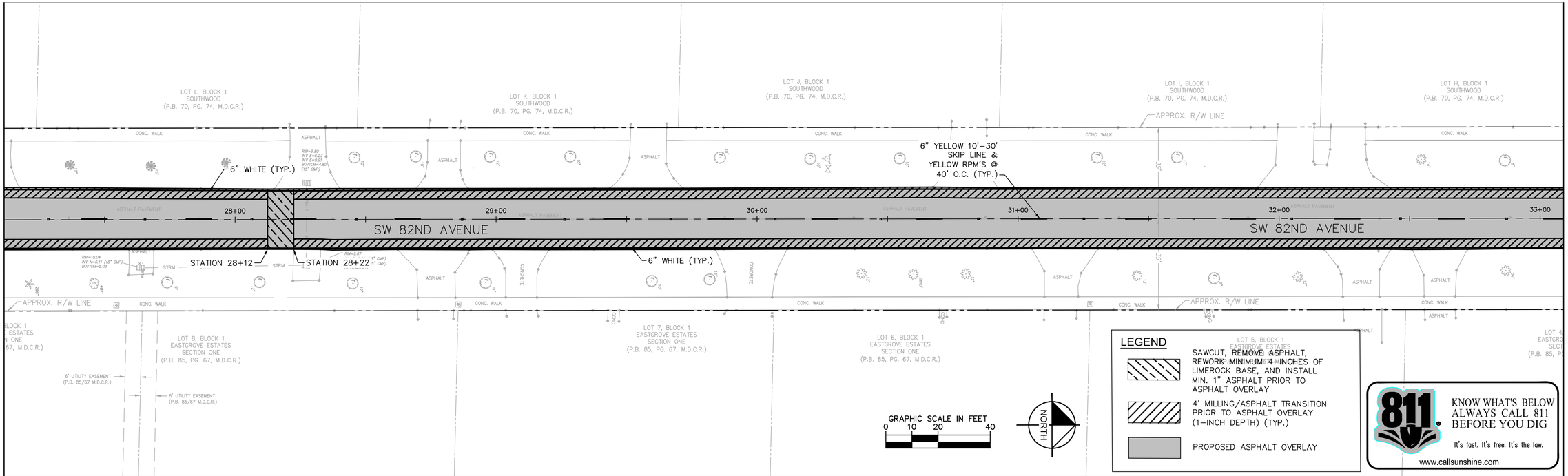
DETECTABLE WARNING RAMP PLAN VIEW

TRUNCATED DOME SECTION VIEW



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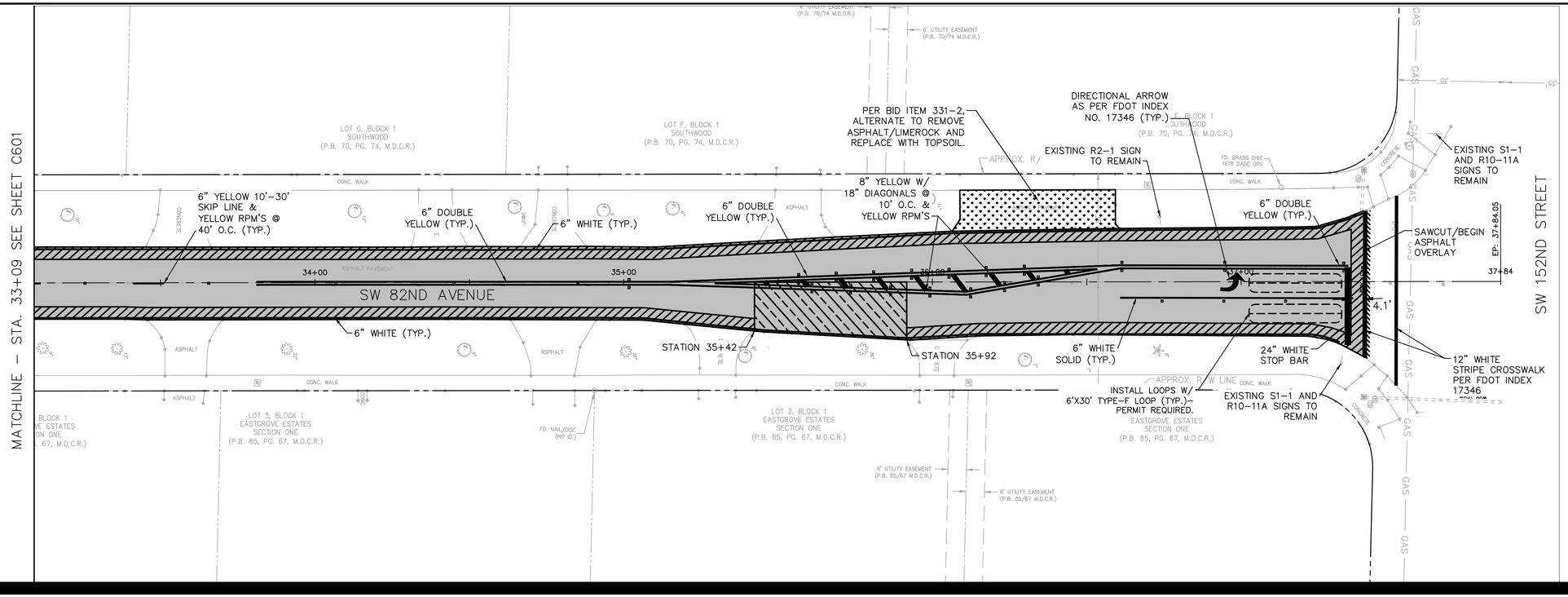

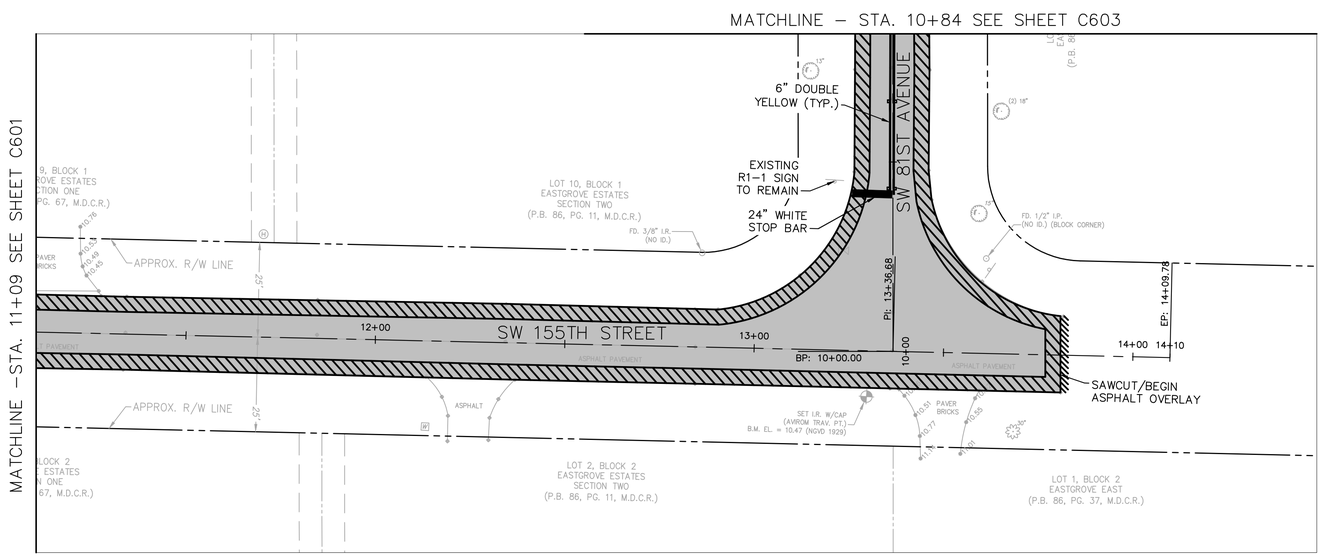

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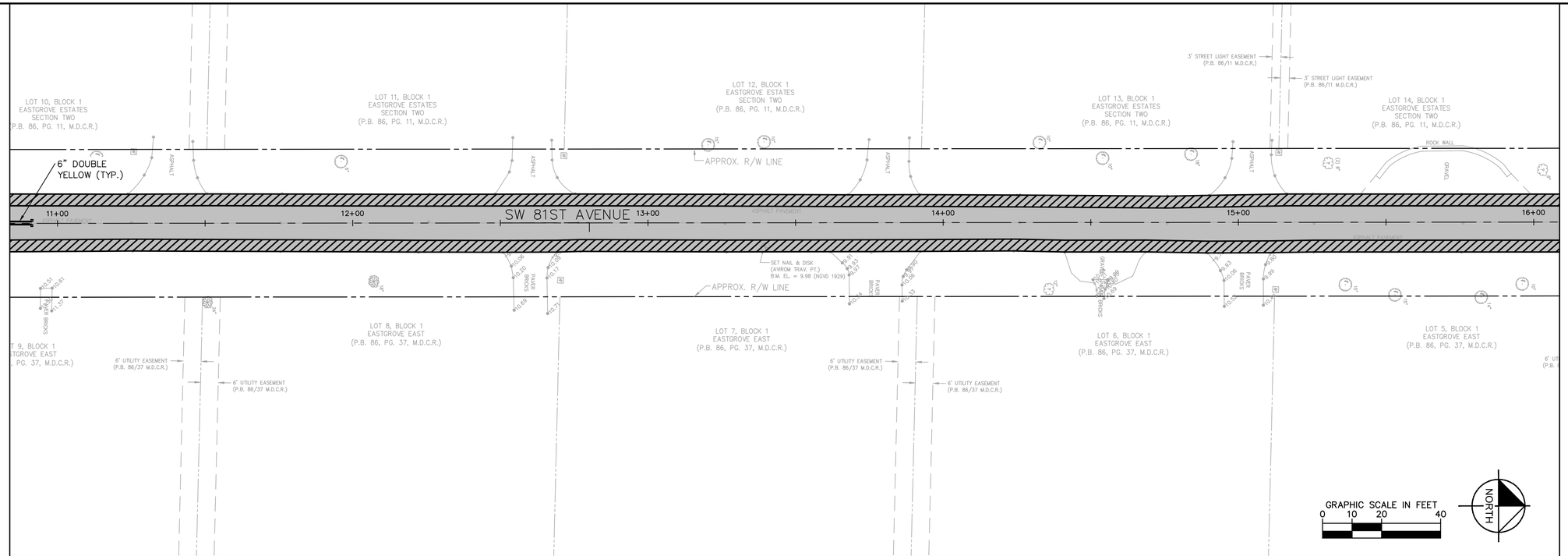

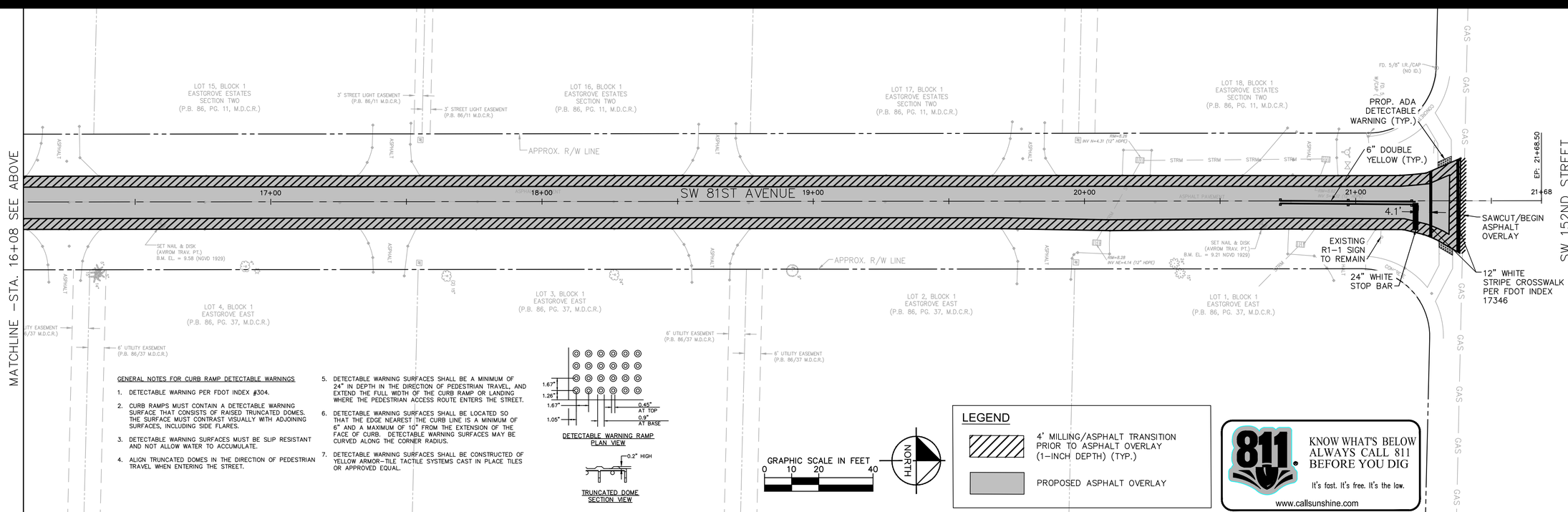

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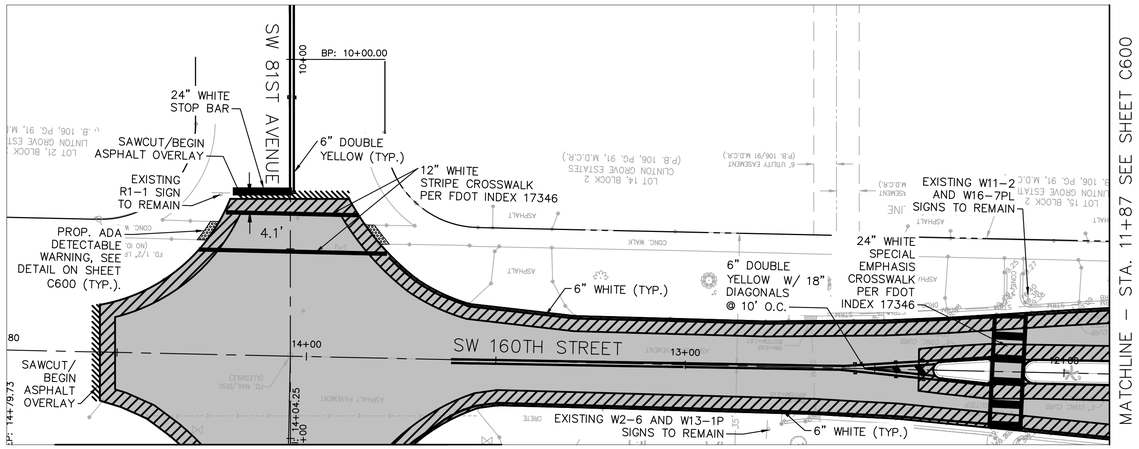

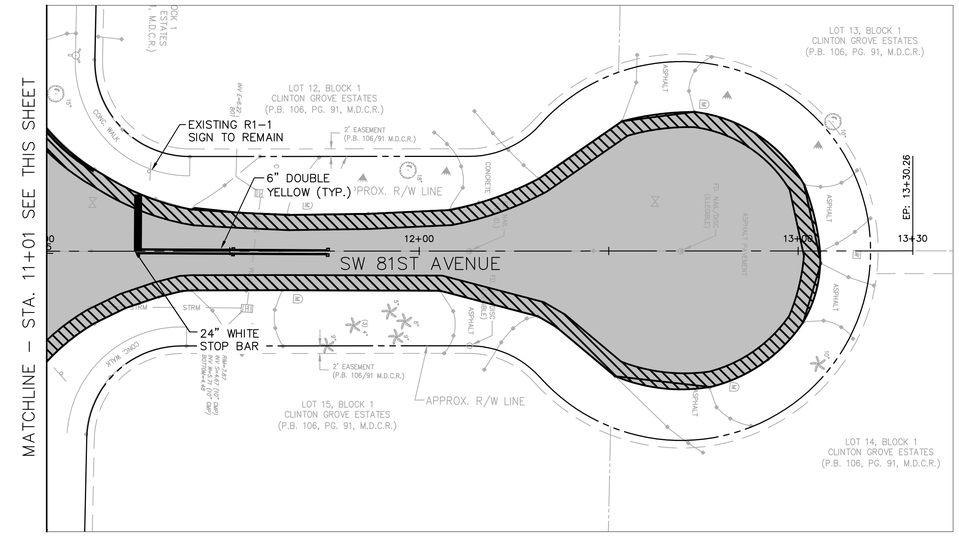

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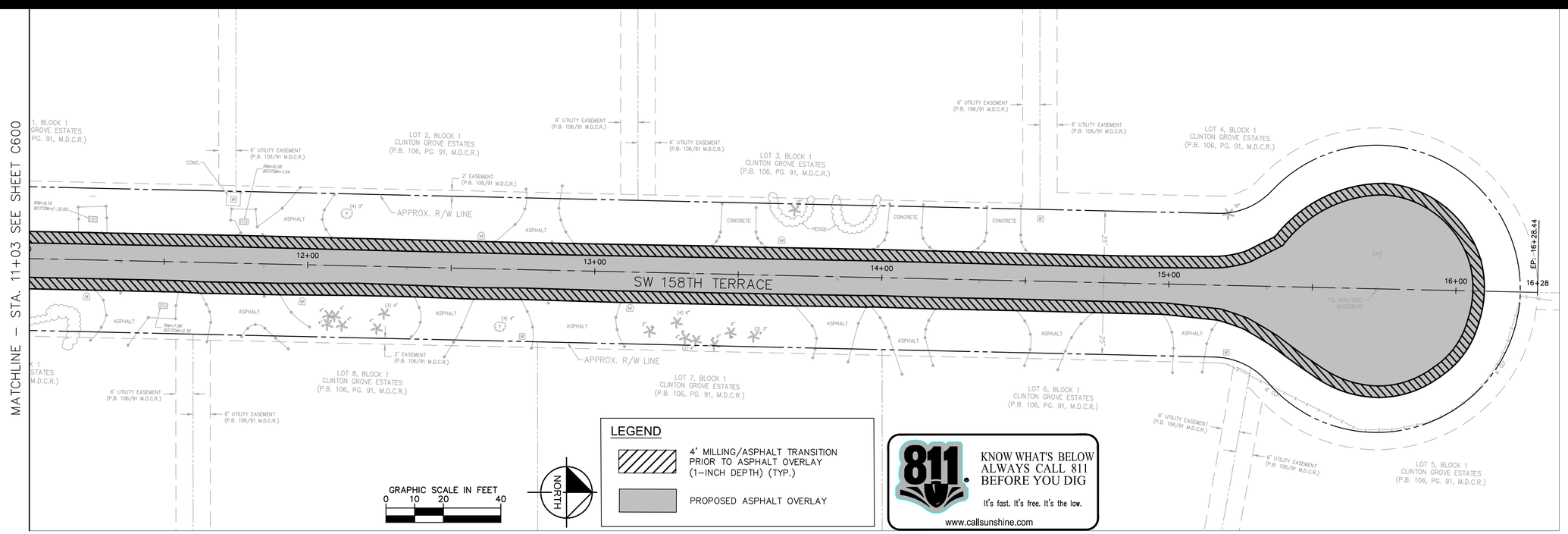

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NORTH

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