



Plantation Acres Improvement District

Broward County Florida

1701 NW 112th Avenue, Plantation, FL 33323
AGENDA
December 14, 2023

Call to Order 7:00 P.M.

Pledge of Allegiance

Invocation

Roll Call

Approval of Attendance of Commissioners by Social Media or Telephone

Approval of Minutes

Public Comment

Purchase of Portable Pump - MWI Pumps - Florida Sheriff's Association Contract #FSA20-EQU18.0

NW 2nd Street Right-of-Way Vacation

Staff Reports

I. Administrator's Report

- A. Approval of the October 2023 Expenses in the Amount of \$101,215.00
- B. Approval of the November 2023 Expenses in the Amount of \$84,318.13
- C. Approval of the Credit Card Report for 10/9/2023 thru 11/8/2023 in the amount of \$6,529.85

II. Attorney's Report

III. Engineer's Report

A. CONSENT ITEMS

None

B. QUASI-JUDICIAL ITEMS

The items in this section are quasi-judicial in nature. If you wish to object or comment upon any of these items, you must be sworn before addressing the Board of Commissioners, and if you wish to address the Board, you may be subject to cross-examination. If you refuse to submit to cross-examination, the Board of Commissioners will not consider what you have said in its final deliberations.

None

C. BOARD ACTION ITEMS

- C1. NW 2nd Street Right-of-Way Vacation (R2208.01) Approval
- C2. Offsite Improvements for N. Acres Park (D2308.03) Approval
- C3. Portable Auxiliary Pump (D2301.01) Approval

D. DISCUSSION ITEMS

- D1. Pump Stations Improvements (D1707.01) Update
- D2. NW 118th Ave. Drainage Improvements (D2308.04-1) Update
- D3. SW 3rd St & SW 122nd Ave Drainage Improvements (D2308.06) Update
- D4. Master Drainage Improvements (D2301.01) Update
- D5. Permit Activity (D9408.02 & D9408.03) Summary
- D6. Violation Activity (D9611.01) Summary

IV. District Manager's Agenda

Old Business

New Business

Commissioner Comments

Adjournment

ENGINEER'S STAFF REPORT
FOR December 14, 2023 MEETING
AGENDA ITEM No.: C1

Action Required: Board Approval

Item Description: NW 2nd St R/W VACATION
Request for "No Objection Letter"

P.A.I.D. Number: R2208.01

Attachments: EXHIBIT A - SITE VICINITY AERIAL
EXHIBIT B - RIGHT-OF-WAY AERIAL
EXHIBIT C - 1981 DEED TO CITY
EXHIBIT D - EMAIL FROM CITY ENGINEER
EXHIBIT E - SITE PLAN FOR STKR 8 LOT PLAT

Summary: The applicant has applied to the City for the vacation of the City's right-of-way for the portion of NW 2nd Street lying southeastern of and adjacent to the Noor Plat. Refer to Exhibits A-C for location of and deed for the right-of-way. The City has requested letters of no objection from all entities, including PAID, that may have facilities within the right-of-way. Refer to Exhibit D.

The subject property is undeveloped. PAID has no facilities within the right-of-way and PAID's criteria will apply to the subject property whatever its eventual use. PAID is not involved in the conveyance of property between third parties.

Recommendation: NO OBJECTION



Comments: The approval letter from the District's engineer will be provided as the letter of no objection.

Prepared by: CJF Date: 12/7/23

NOOR PLANTATION

SITE VACINITY AERIAL

Legend

-  force main
-  Untitled Polygon

NW 118th Ave

NW 118th Ave

NW 117th Terrace

NW 1st St

NW 116th Ave

Terra Bella Blvd

BROWARD BOULEVARD

NW 115th Ave

NW 4th St

Old Hiatus Rd

NOOR PLANTATION 8 LOTS PLAT

NW 2ND STREET ROW

Google Earth

© 2018 Google

600 ft

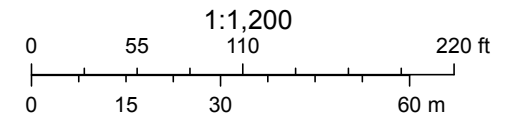


EXHIBIT B



December 2, 2019

**NW 2nd Street Right-of-Way
(outlined in red above)**



40d

Warranty Deed

(STATUTORY FORM—SECTION 689.02 F.S.)

81-112766

This Indenture, Made this 6th day of ~~March~~ April 1981, Between

THE COMMUNITY CHRISTIAN CHURCH OF FORT LAUDERDALE, INC., a Florida non-profit corporation

of the County of Broward, State of Florida, grantor*, and

CITY OF PLANTATION, a municipal corporation

whose post office address is 400 N.W. 73rd Avenue, Plantation, FL 33317

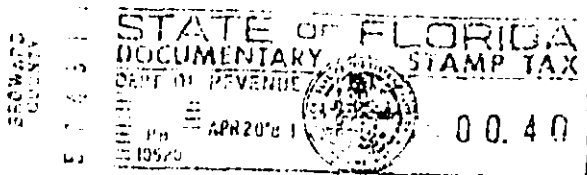
of the County of Broward, State of Florida, grantee*.

Witnesseth, That said grantor, for and in consideration of the sum of _____

_____ TEN AND 00/100 (\$10.00) _____ Dollars, and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained and sold to the said grantee, and grantee's heirs and assigns forever, the following described land, situate, lying and being in Broward County, Florida, to-wit:

The North 60 feet of the South one-half of the East one-half of Tract 50 except the East 80 feet thereof,

of the Subdivision of Section 1, Township 50 South, Range 40 East, according to the FLORIDA FRUIT LANDS COMPANY'S SUBDIVISION MAP NO. 1, recorded in Plat Book 2 at Page 17 of the Public Records of Dade County, Florida; said lands situate, lying and being in Broward County, Florida.



APR 20 PM 1 13

and said grantor does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever.

* "Grantor" and "grantee" are used for singular or plural, as context requires.

In Witness Whereof, Grantor has hereunto set grantor's hand and seal the day and year first above written.

Signed, sealed and delivered in our presence:

Robert Schneider

Russell McMillan

John Winters (Seal)
JOHN WINTERS, chairman of the board

Joe Prewitt (Seal)

JOE PREWITT, secretary (Seal)

STATE OF FLORIDA
COUNTY OF BROWARD

I HEREBY CERTIFY that on this day before me, an officer duly qualified to take acknowledgments, personally appeared

JOHN WINTERS, chairman of the board and JOE PREWITT, secretary,

to me known to be the persons described in and who executed the foregoing instrument and acknowledged before me that they executed the same.

WITNESS my hand and official seal in the County and State last aforesaid this 6 day of ~~March~~ APRIL 1981.

My commission expires:

Joseph J. [Signature]
Notary Public

NOTARY PUBLIC
STATE OF FLORIDA
COMMISSION EXPIRES

Return to: Deni Associates
7025 N.W. 4th St.
Plantation, FL 33317

RECORDED IN THE OFFICIAL RECORDS BOOK
OF BROWARD COUNTY, FLORIDA
GRAHAM W. WATT
COUNTY ADMINISTRATOR

REC 9533 PAGE 983

A

From: [Shalan, Samira](#)
Sent: Monday, August 22, 2022 3:58 PM
To: [Joe Keith](#)
Cc: [Nunemaker, Jason](#); [Zelch, Lisa](#); [Holmes, Dan](#)
Subject: NW 2nd street Vacation Request

Good afternoon Joe,

Can you please provide me the following information:

1. Revise the letter of intent for the vacation application. The attached letter of intent referenced the original project intent to develop the property into 37- unit single family home development.
2. Provide no objection letter from PAID
3. Provide no objection letter from ATT, Comcast and FPL.

Sincerely,

Samira Shalan, PE
City Engineer
City of Plantation
sshalan@plantation.org
954-797-2282

ENGINEER'S STAFF REPORT
FOR December 14, 2023 MEETING
AGENDA ITEM No.: C2

Action Required: Board Action

Item Description: Off-site Improvements for N. Acres Park

P.A.I.D. Number: D2308.03

Attachments: 8-1/2" x 11" Engineer's Cost Estimate (District Funded)
11" x 17" Construction Plans - Signed and Sealed

Summary: This project was approved by the Board in September for proposed drainage improvements for the off-site connection starting at the north end of N. Acres Park and running north to the C-6 canal.

The City agreed to pay for construction for the off-site portion with a shared cost to the District for surveying and engineering design. The proposed drainage improvements include the following: removing topsoil and existing vegetation, removing fencing, cutting and grading swales, installing catch basins and outfall pipe at canal C-6, installing sod, and performing driveway and pavement restorations as necessary.

The construction plans are complete.

Comments: Recommend Approval.

Prepared by: BMP Date: 12/7/23

ENGINEER'S COST ESTIMATEOFFSITE IMPROVEMENTS FOR NORTH ACRES PARK (DISTRICT FUNDED)
PROJECT NUMBER D2308.03

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
C1-1	Surveying	1	L.S.	\$25,000.00	\$25,000.00
C1-2	Engineering	1	L.S.	\$35,000.00	\$35,000.00
P1-1	Permitting	1	L.S.	\$5,000.00	\$5,000.00
E1-3	Inspections	1	L.S.	\$22,000.00	\$22,000.00
E1-4	General Consulting	1	L.S.	\$8,500.00	\$8,500.00
E1-5	Construction Admin	1	L.S.	\$7,200.00	\$7,200.00
				Subtotal:	\$102,700.00
	Contingencies	10	%	\$10,270.00	\$10,270.00

TOTAL ESTIMATED COST:

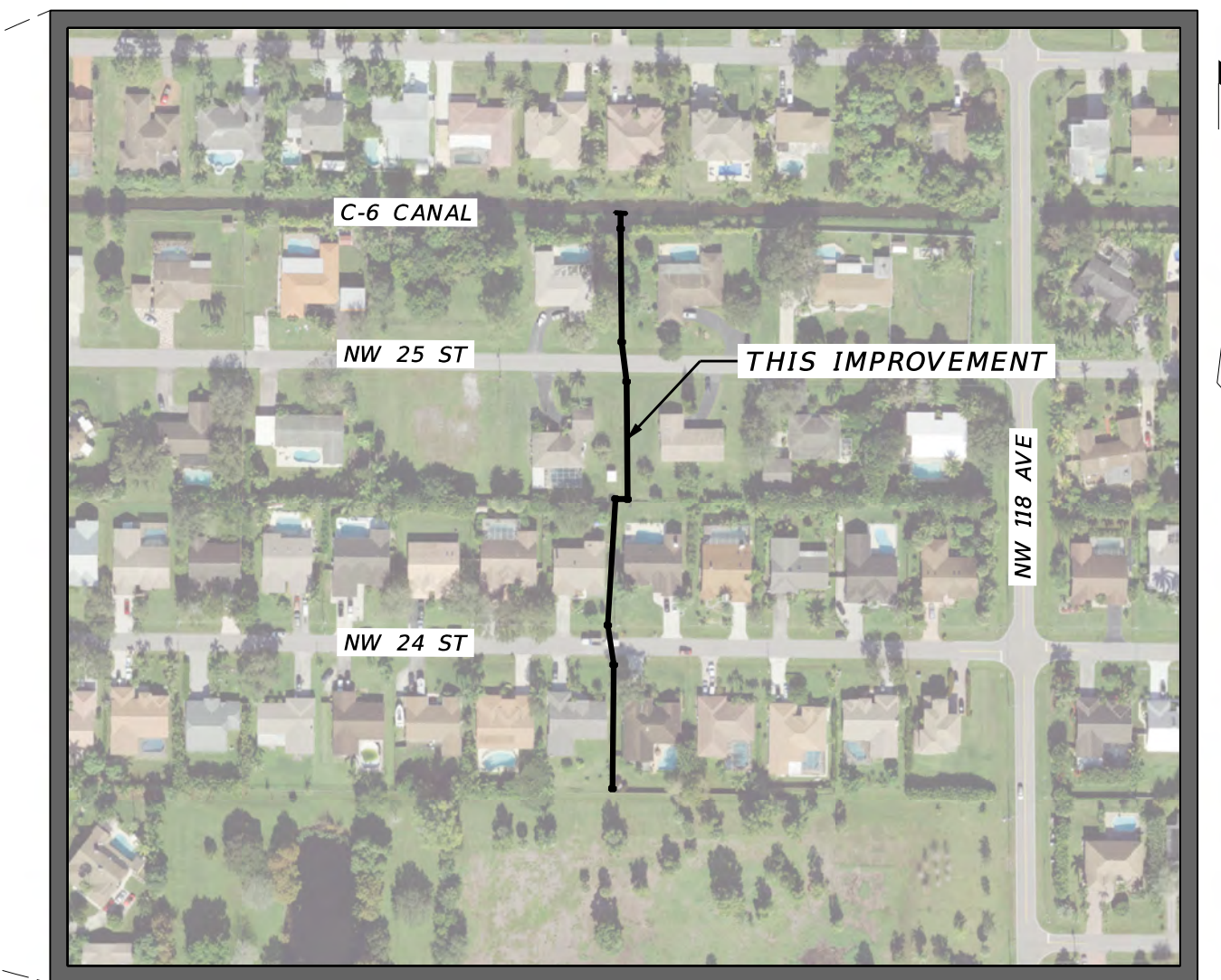
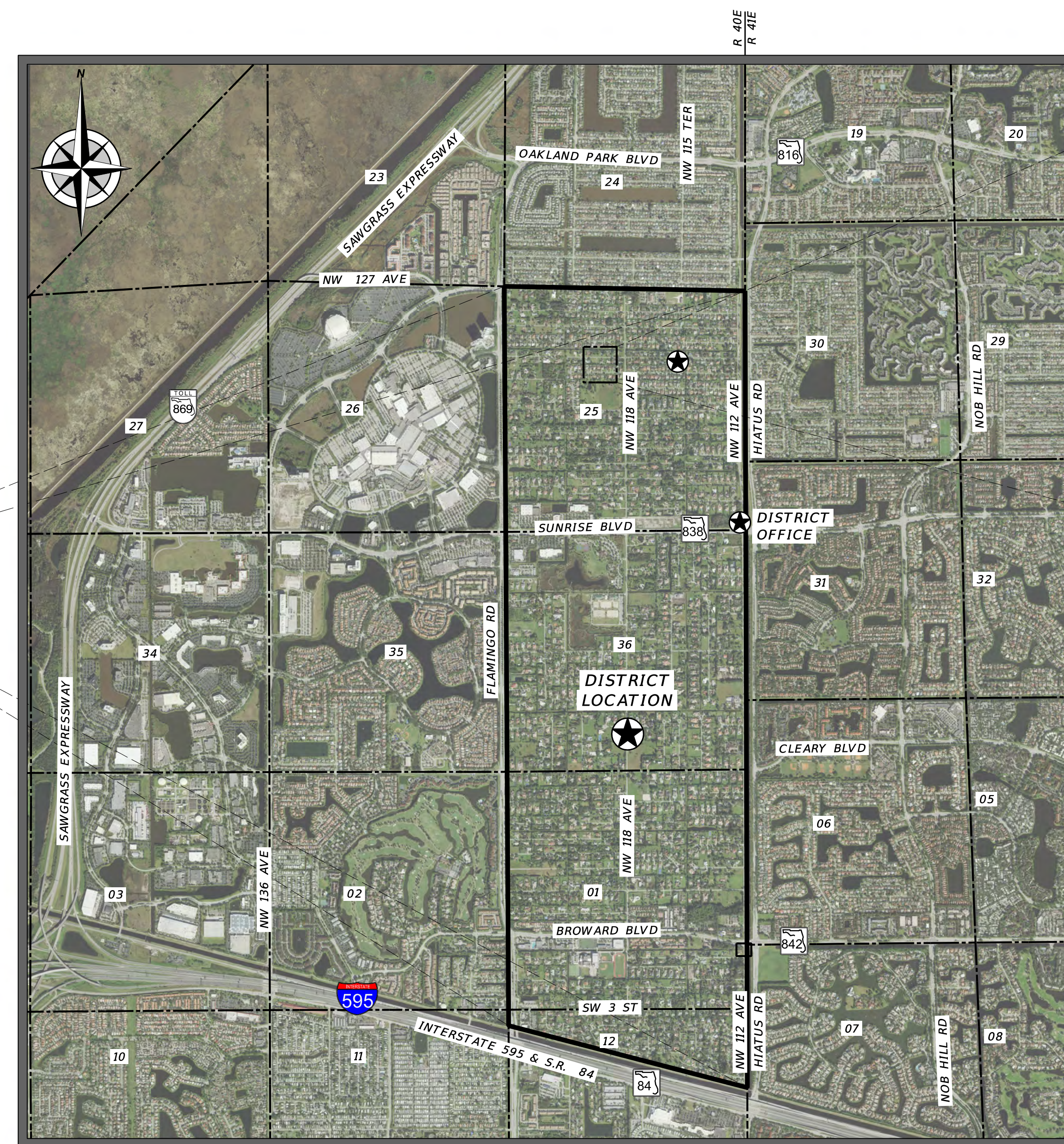
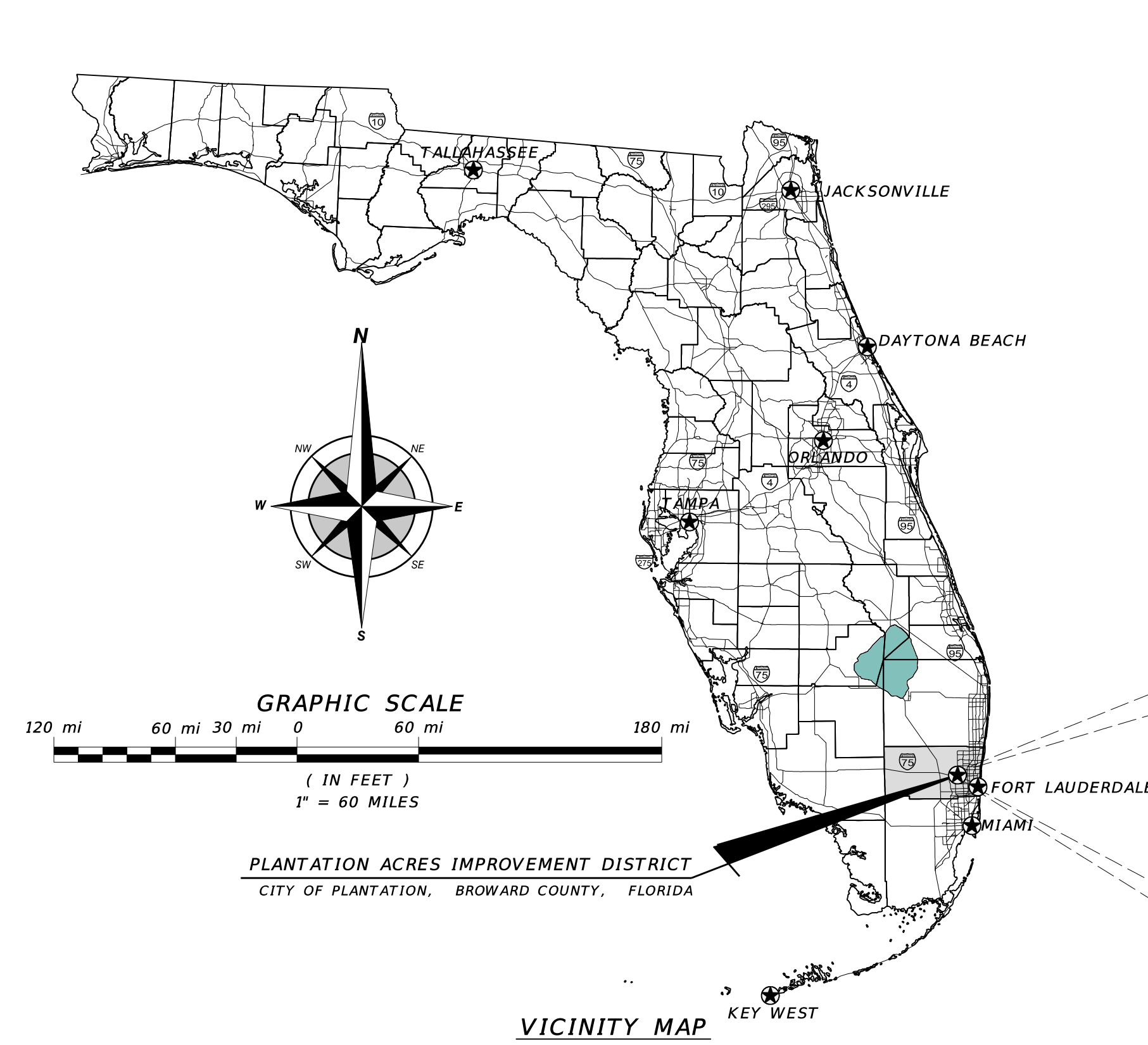
\$112,970.00

PREPARED BY:
WINNINGHAM AND FRADLEY
ENGINEERS AND SURVEYORS
PROJECT NUMBER: D2308.03
DECEMBER 7, 2023

OFF-SITE IMPROVEMENTS FOR NORTH ACRES PARK

PLANTATION ACRES IMPROVEMENT DISTRICT

CITY OF PLANTATION, BROWARD COUNTY, FLORIDA



INDEX TO SHEETS

DESCRIPTION	SHEET NUMBER
GENERAL NOTES & SPECIFICATIONS	GN1 OF 1
TEMPORARY POLLUTION PREVENTION - DETAILS	TPP1 OF 1
DRAINAGE IMPROVEMENT - PLAN	D1 OF 2
DRAINAGE IMPROVEMENT - DETAILS	D2 OF 2
DRAINAGE SYSTEM - CONSTRUCTION DEWATERING PLAN	DW1 OF 1

PERMITTING AGENCIES	SUBMITTED	APPROVED	PERMIT No.	EXPIRES
CITY OF PLANTATION				
S.F.W.M.D. ERP				
S.F.W.M.D. WATER USE				
N.P.D.E.S.				

NOTE:
 IF ALL THE ABOVE INFORMATION HAS NOT BEEN PROVIDED, THIS SET OF DRAWINGS SHOULD NOT BE USED FOR CONSTRUCTION.

DRAINAGE IMPROVEMENTS PLAN

LATERAL "6N"



GENERAL PROJECT NOTES

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL GIVE TIMELY NOTIFICATION TO ALL UTILITY COMPANIES WITH FACILITIES IN THE AREA.
2. THE LOCATIONS OF EXISTING FACILITIES WERE PLOTTED FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO SAFEGUARD ALL EXISTING STRUCTURES, UTILITIES, LANDSCAPING, AND SURVEY MARKERS.
4. THE CONTRACTOR AND/OR HIS SUPERINTENDENT SHALL MAINTAIN A MINIMUM OF ONE (1) COPY OF EACH OF THE FOLLOWING PUBLICATIONS ON THE JOB SITE DURING CONSTRUCTION OF THIS PROJECT:
 - A. F.D.O.T. - STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION.
 - B. F.D.O.T. - ROADWAY AND TRAFFIC DESIGN STANDARDS, LATEST EDITION.
 - C. U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES 2009 EDITION.
 - D. BROWARD COUNTY "MINIMUM STANDARDS" APPLICABLE TO PUBLIC RIGHTS OF WAY UNDER BROWARD COUNTY JURISDICTION, OCTOBER 25, 2005 OR LATEST REVISION.

GENERAL SPECIFICATIONS

1. APPLICABLE CODES
 - A. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE PLANTATION ACRES IMPROVEMENT DISTRICT, AND ALL OTHER LOCAL, STATE, AND NATIONAL CODES WHERE APPLICABLE.
 - B. ALL PAVEMENT CROSSINGS WITHIN LIMITS OF PUBLIC RIGHTS OF WAY UNDER LOCAL JURISDICTION SHALL CONFORM WITH THE PUBLIC WORKS DEPARTMENT MINIMUM STANDARDS, LATEST EDITION. ALL CONSTRUCTION WITHIN LIMITS OF FLORIDA DEPARTMENT OF TRANSPORTATION SHALL CONFORM WITH F.D.O.T. DESIGN STANDARDS 2008.
 - C. ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER AND IN STRICT COMPLIANCE WITH ALL REQUIREMENTS OF FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, AND ALL STATE AND LOCAL SAFETY AND HEALTH REGULATIONS.
 - D. ALL ELEVATIONS SHOWN ON THE CONSTRUCTION DRAWINGS ARE BASED ON NATIONAL GEODETICAL VERTICAL DATUM OF 1929, (N.G.V.D.), UNLESS OTHERWISE NOTED.
2. PRECONSTRUCTION RESPONSIBILITIES
 - A. UPON THE RECEIPT OF THE "NOTICE TO PROCEED," THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND ARRANGE A PRECONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, UTILITY OWNERS, THE OWNER AND THE ENGINEER OF RECORD.
 - B. THE CONTRACTOR SHALL OBTAIN AN U.N.C.L.E. CERTIFICATION NUMBER AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION. PRIOR TO ANY CONSTRUCTION ACTIVITY, CALL 811.
 - C. ALL UTILITY EASEMENTS AND RIGHT-OF-WAY TO BE SECURED PRIOR TO CONSTRUCTION. (IF REQUIRED)
 - D. ALL APPLICABLE CONSTRUCTION PERMITS SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO START OF CONSTRUCTION.
3. INSPECTIONS
 - A. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AND OTHER GOVERNMENTAL AGENCIES HAVING JURISDICTION AT LEAST 24 HOURS PRIOR TO THE BEGINNING CONSTRUCTION AND PRIOR TO THE FOLLOWING ITEMS, WHERE APPLICABLE:
 1. CLEARING AND FILLING
 2. STORM DRAINAGE SYSTEM
 3. ROADWAY RESTORATION
4. SHOP DRAWINGS
 - A. PRIOR TO THEIR CONSTRUCTION OR INSTALLATION, SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD AND THE CITY OF PLANTATION. THE FOLLOWING ITEMS: SANITARY MANHOLES, CATCH BASINS, FIRE HYDRANTS, VALVE AND ALL REQUIRED ACCESSORIES.
5. TEMPORARY FACILITIES
 - A. TEMPORARY FACILITIES:
 1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES, AND ELECTRICITY FOR NO ADDITIONAL COST TO THE OWNER FOR THEIR EMPLOYEES.
 - B. TRAFFIC REGULATION
 1. MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH M.U.T.C.D.
 2. ALL OPEN TRENCHES AND EXCAVATIONS 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 EXCAVATIONS NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS WITHOUT EXPRESS PERMISSION OF THE CITY OF PLANTATION.
4. IF ROAD CLOSURES ARE REQUIRED, THE CONTRACTOR SHALL CONTACT THE LOCAL POLICE DEPARTMENT OFFICE TO COORDINATE THE APPROPRIATE ACTION.

C. MATERIAL AND EQUIPMENT STORAGE AREAS

1. THE CONTRACTOR SHALL SELECT THE SUITABLE LOCATION OF TEMPORARY STORAGE SITES.
2. PROOF OF PERMISSION FOR THE USE OF PRIVATE PROPERTY SHALL BE PROVIDED BY THE CONTRACTOR PRIOR TO THE START OF THE PROJECT.

6. PROJECT CLOSEOUT

- A. CLEANING UP:
 1. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER, AND UPON FINAL CLEAN-UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE SWEEP BROOM CLEAN.
 2. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS WORK, EQUIPMENT, OR EMPLOYEES, TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS. TO THE END, THE CONTRACTOR SHALL DO AS REQUIRED, ALL NECESSARY HIGHWAY, 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 HAVE 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 THE PROGRESS OF THE WORK, AND THE AREA KEPT IN CLEAN AND NEAT CONDITION.
- B. ALL PROPERTY MONUMENTS OR PERMANENT REFERENCES, REMOVED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED BY A STATE OF FLORIDA REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- C. ALL UNPAVED SURFACES SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION.
- D. PROJECT RECORD DOCUMENTS
 1. DURING THE DAILY PROGRESS OF THE JOB, THE CONTRACTOR SHALL RECORD ON HIS SET OF CONSTRUCTION DRAWINGS THE EXACT LOCATION, LENGTH AND ELEVATION OF ANY FACILITY NOT BUILT EXACTLY ACCORDING TO PLANS. ELEVATION OF ANY FACILITY NOT BUILT EXACTLY ACCORDING TO PLANS.
 2. UPON COMPLETION OF CONSTRUCTION, AND PRIOR TO FINAL PAYMENT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD ONE COMPLETE SET OF ALL "AS-BUILT" CONTRACT DRAWINGS. THESE DRAWINGS SHALL BE MARKED TO SHOW "AS-BUILT" CONSTRUCTION CHANGES AND DIMENSIONS, LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS.
 3. ALL "AS-BUILT" INFORMATION ON PLANS SHALL BE CERTIFIED BY A PROFESSIONAL SURVEYOR AND MAPPER REGISTERED IN THE STATE OF FLORIDA.

7. EARTHWORK AND COMPACTION

- A. ALL ORGANIC AND OTHER UNSUITABLE MATERIAL SHALL BE REMOVED UNDER THESE AREAS TO BE PAVED AND FOR THE FULL WIDTH OF THE RIGHT-OF-WAY.
- B. SUITABLE BACKFILL SHALL BE USED AND COMPACTED AS DIRECTED BY THE ENGINEER OF RECORD. ALL TRENCHES SHALL BE BACKFILLED AND COMPACTED TO 98% STANDARD PROCTOR ON THIS PROJECT. TESTING SHALL BE VERIFIED BY TESTING COMPANY.

8. PAVING

- A. GENERAL:
 1. ALL UNDERGROUND UTILITIES SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF LIMEROCK BASE.
 2. ALL EXISTING PAVEMENT, CUT OR DAMAGED BY CONSTRUCTION SHALL BE PROPERLY RESTORED AT THE CONTRACTOR'S EXPENSE.
 3. FOR ANY PROPOSED CONNECTIONS, THE EXISTING EDGE OF PAVEMENT SHALL BE SAW CUT.
- B. MATERIAL:
 1. BASE COURSE SHALL BE CRUSHED LIMEROCK MIAMI COLITE WITH A MINIMUM OF 70% CARBONATES OF CALCIUM AND MAGNESIUM.
 2. ASPHALT SURFACES SHALL BE S-3 ASPHALTIC CONCRETE, UNLESS OTHERWISE SPECIFIED ON THE PLANS.

C. INSTALLATION:

1. SUBGRADE FOR ROADWAY SHALL BE COMPACTED TO A MINIMUM OF 98% OF THE MAXIMUM DENSITY (AASHTO T-180). SHALL BE MIN. 12" THICKNESS, MIN. L.B.R. 40.
2. BASE COURSE MATERIAL FOR PAVED AREAS SHALL HAVE A MINIMUM THICKNESS OF 8" PLACED ON A SINGLE LAYER FOR STREETS. (6 INCHES FOR DRIVEWAYS AND DESIGNATED PARKING AREAS).
3. BASE COURSE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
4. INSTALLATION OF THE WEARING SURFACE SHALL CONFORM WITH THE REQUIREMENTS OF THE D.O.T. STANDARD SPECIFICATIONS FOR ASPHALTIC CONCRETE.

D. TESTING:

1. THE FINISHED SURFACE OF THE BASE COURSE AND THAT OF THE WEARING SURFACE SHALL NOT VARY MORE THAN 1/4" FROM THE TEMPLATE. ANY IRREGULARITIES EXCEEDING THIS LIMIT SHALL BE CORRECTED.
2. DENSITY TESTS SHALL BE TAKEN BY AN INDEPENDENT TESTING LABORATORY, CERTIFIED BY THE STATE OF FLORIDA, WHERE DIRECTED BY THE ENGINEER.
3. ALL TESTING COSTS (PAVING) SHALL BE PAID FOR BY THE OWNER EXCEPT THOSE TESTS FAILING TO MEET THE SPECIFIED REQUIREMENTS WHICH ARE TO BE PAID BY THE CONTRACTOR.

E. DRAINAGE SYSTEM:

1. ALL DRAINAGE PIPE SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO A.S.T.M. C76-70 OR A.S.T.M. C-1450.
2. THE DRAINAGE SYSTEM HAS BEEN DESIGNED USING REINFORCED CONCRETE PIPE (R.C.P.). NO ALTERNATIVES WILL BE USED.
3. THE CONTRACTOR SHALL NOTIFY THE PLANTATION ACRES IMPROVEMENT DISTRICT 24 HOURS PRIOR TO CONSTRUCTION AT (954) 474-3092.

9. PAVEMENT MARKINGS

- A. PROVIDE AND INSTALL ALL NECESSARY PAVEMENT MARKINGS AND SIGNS IN ACCORDANCE WITH THE "MANUAL OF OPERATIONS STANDARDS, FLORIDA DEPARTMENT OF TRANSPORTATION, AND THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (M.U.T.C.D.), UNITED STATES DEPARTMENT OF TRANSPORTATION. ALL TRAFFIC SIGNS SHALL BE FULLY REFLECTORIZED.
- B. ALL PAVEMENT MARKINGS SHALL BE F.D.O.T. THERMOPLASTIC WITH RAISED REFLECTIVE MARKERS. PLEASE REFER TO PLANS.
- C. THE PAVEMENT MARKINGS (PAINT) SHALL BE APPLIED TO THE FIRST INCH OF ASPHALT WITHIN ONE CALENDAR DAYS AFTER THE APPLICATION OF THE ASPHALT.
- D. ALL SIGNS SHALL HAVE HIGH INTENSITY SHEETING.

MAINTENANCE OF TRAFFIC

REFER TO F.D.O.T. INDEX 102 (TRAFFIC CONTROL THROUGH WORK ZONES) FOR MAINTENANCE OF TRAFFIC.

NO.	REVISIONS	DATE	NO.	REVISIONS	DATE

WINNINGHAM & FRADLEY
 ENGINEERS • PLANNERS • SURVEYORS
 111 N.E. 44th STREET • OAKLAND PARK, FL 33334
 office: 954.771.7440 • fax: 954.771.0298 • www.winfrad.com

OFF-SITE IMPROVEMENTS FOR NORTH ACRES PARK
 PLANTATION ACRES IMPROVEMENT DISTRICT

GENERAL NOTES & SPECIFICATIONS

DESIGNED: BMP	DATE: 10/2023	PUBLISHED: 12/16/2023, 2:32:42 PM
DRAWN: AFA	DATE: 10/2023	PROJECT NUMBER: D2308.03
CHECKED: BMP	DATE: 11/2023	SHEET: GN1 OF 1



Know what's below.
Call before you dig.

\\PAPAD\Projects\10\2023\02\30803 - Offsite Improvements For N.Acres Park\CAD\CAD-General Notes-01.dwg(10/11)

CONTRACTOR'S REQUIREMENTS

GENERAL

THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS. DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULANT TO RETENTION SYSTEM PRIOR TO PLACING THE SYSTEM INTO OPERATION.

SEQUENCE OF MAJOR ACTIVITIES

THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
2. INSTALL SILT FENCES AND HAY BALES AS REQUIRED.
3. CLEAR AND GRUB FOR DIVERSION SWALE/DIKES AND SEDIMENT BASIN.
4. CONSTRUCT SEDIMENTATION BASIN.
5. CONTINUE CLEARING AND GRUBBING.
6. STOCK PILE TOP SOIL IF REQUIRED.
7. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED.
8. STABILIZE DENIED AREAS AND STOCKPILES AS SOON AS PRACTICABLE.
9. INSTALL UTILITIES: STORM SEWER, COURSES & GUTTERS
10. APPLY BASE TO PROJECT.
11. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD AND PLANTING.
12. REMOVE ACCUMULATED SEDIMENT FROM BASINS.
13. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALE/DIKES AND RESEED/SOD AS REQUIRED.

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND HAY BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND THE LEATH DIKES/SWALES WILL BE REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE EROSION & TURBIDITY CONTROL PLAN.

CONTROLS

IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SPECIFIED IN THE EROSION AND TURBIDITY CONTROL NOTES. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS AS SPECIFIED IN THE EROSION AND TURBIDITY CONTROL NOTES AND ADD ADDITIONAL CONTROL MEASURES AS REQUIRED TO ENSURE THE SITE MEETS ALL FEDERAL, STATE, AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE CONTRACTOR AS REQUIRED BY THE EROSION AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.

EROSION AND SEDIMENT CONTROL

1. INSTALL TURBIDITY SCREENS IN LAKE AS INDICATED. PER SF.W.Q.D. CRITERIA.
2. INSTALL ADDITIONAL SILT FENCE/WINDSCREEN AS NEEDED TO REDUCE WINDBLOWN EROSION.
3. PROVIDE MINIMUM 6" DEEP SWALE AROUND SITE PERIMETER TO CONTAIN SOIL EROSION ON-SITE. REGRADE SWALE DURING CONSTRUCTION AS REQUIRED TO MAINTAIN 6" SWALE.
4. CONSTRUCT A TEMPORARY MINIMUM 6" DEEP REVERSE BERM ALONG THE TOP OF LAKE BANK TO CONTAIN SURFACE WATER RUNOFF FROM ERODING THE LAKE BANK.
5. PROVIDE TEMPORARY CONSTRUCTION ACCESS ROAD WITH COMPACTED LUMBEROCK AS SOON AS PRACTICAL.
6. PROVIDE FILTER FABRIC ON ALL DRAINAGE CATCH BASIN UNTIL FINAL LANDSCAPING IS IN PLACE.
7. TURBIDITY SCREENS SHALL NOT BE REMOVED UNTIL ALL AREAS AROUND INLETS HAVE BEEN GRADED & SODDED AND THE LAKE HAS MET STATE TURBIDITY STANDARDS
8. CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES WEEKLY AND AFTER ANY INTENSE RAINFALL OF GREATER THAN 0.25 AND REPAIR AS NECESSARY.

EROSION AND SEDIMENT CONTROL STABILIZATION PRACTICES

1. HAY BALE BARRIERS: HAY BALE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:
 - A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.
 - B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.
 - C. WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS.
 - D. EVERY EFFORT SHOULD BE MADE TO LIMIT THE USE OF STRAW BALE.
 - E. BARRIERS CONSTRUCTED IN LIVE STREAMS OR IN SWALES WHERE THERE IS THE POSSIBILITY OF A WASHOUT, IF NECESSARY, MEASURES SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO INSURE AGAINST WASHOUT.
2. FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:
 - A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.
 - B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.
3. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE.
4. LEVEL SPREADER: A LEVEL SPREADER MAY BE USED WHERE SEDIMENT-FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED AWAY FROM THE GRADED AREAS ONTO UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL UP IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE.
5. STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY AT THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.
6. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 10 ACRES. THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREA WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.
7. INLET PROTECTION: INLETS AND CATCH BASINS WHICH DISCHARGE DIRECTLY OFF-SITE SHALL BE PROTECTED FROM SEDIMENT-LOADED STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.
8. TEMPORARY SEEDING AREAS: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 30 DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING.
9. TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 8 ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH.
10. TEMPORARY GRASSING: THE SEEDED OR SEEDING MULCHED AREAS SHALL BE ROLLED AND WATERED OR HYDROMULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. TEMPORARY GRASSING IN THE CONTRACT SPECIFICATIONS.
11. TEMPORARY REGRASSING: IF AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSING AREAS HAVE NOT ATTAINED A MINIMUM OF 15 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE GOOD VEGETATIVE COVER.
12. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.
13. PERMANENT EROSION CONTROL: THE CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.
14. PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION SHALL AS A MINIMUM BE SEEDED WITH THE SEEDS WHICH MUST PROVIDE BOTH LONG-TERM VEGETATION AND RAPID GROWTH. SEASONAL VEGETATION SLOPES STEEPER THAN 4:1 SHALL BE SEEDED AND MULCHED OR SODDED.

STRUCTURAL PRACTICES

1. TEMPORARY DIVERSION DIKES: TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT-TRAPPING FACILITY.
2. TEMPORARY SEDIMENT TRAP: A SEDIMENT TRAP SHALL BE INSTALLED IN AN DRAINAGE WAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA. THE FOLLOWING SEDIMENT TRAPS MAY BE CONSTRUCTED EITHER INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION DIKE:
 - A. BLOCK & GRAVEL SEDIMENT FILTER: THIS PROTECTION IS APPLICABLE WHERE HEAVY FLOWS AND/OR WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE.
 - B. GRAVEL SEDIMENT TRAP: THIS PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCORPORATION OR DAMAGE TO ADJACENT STRUCTURE & UNPROTECTED AREAS.
 - C. DROP INLET SEDIMENT TRAP: THIS PROTECTION IS APPLICABLE WHERE THE INLET DRAWS A RELATIVELY FLAT AREA (SLOPE) AND WHERE SHEET OR OVERLAND FLOW (S O/S) ARE TYPICAL. THIS METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH AS IN STREET OR HIGHWAY MEDIANS.
3. OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE FLOW COULD CAUSE EROSION AND SEDIMENT PROBLEM TO THE RECEIVING WATER BODY. SILT FENCES AND HAY BALES ARE TO BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE DISCHARGING STRUCTURE AS SHOWN ON THE OUTLET PROTECTION DETAIL.
4. SEDIMENT BASIN: WILL BE CONSTRUCTED AT THE COMMON DRAINAGE LOCATIONS THAT SERVE AN AREA WITH 10 OR MORE DISTURBED ACRES AT ONE TIME. THE PROPOSED STORM WATER PONDS OR TEMPORARY PONDS WILL BE CONSTRUCTED FOR USE AS SEDIMENT BASINS. THESE SEDIMENT BASIN MUST PROVIDE A MINIMUM OF 3600 CUBIC FEET OF STORAGE PER ACRE DRAINAGE UNTIL FINAL STABILIZATION OF THE SITE. THE 3600 CUBIC FEET OF STORAGE AREA PER DRAINAGE DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS ON-SITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. ANY TEMPORARY SEDIMENT BASIN CONSTRUCTED MUST BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL FILL. ALL SEDIMENT COLLECTED IN PERMANENT OR TEMPORARY SEDIMENT TRAPS MUST BE REMOVED UPON FINAL STABILIZATION.

OTHER CONTROLS

WASTE DISPOSAL

WASTE MATERIALS

ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LINED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT. THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

HAZARDOUS WASTE

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT. THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

SANITARY WASTE

ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER SYSTEMS.

OFFSITE VEHICLE TRACKING

A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEP DAILY TO REMOVE ANY EXCESS MUD/DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE SITE WILL BE COVERED WITH A TARP. (SEE DETAILS THIS SHEET)

INVENTORY FOR POLLUTION PREVENTION PLAN

THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ON-SITE DURING CONSTRUCTION:

- CONCRETE
- ASPHALT
- TAR
- DETERGENTS
- FERTILIZER
- WOOD
- PETROLEUM BASED PRODUCTS
- MASONRY BLOCKS
- CLEANING SOLVENTS
- PAINTS
- ROOFING MATERIALS
- METAL STUDS
-
-
-

SPILL PREVENTION

MATERIAL MANAGEMENT PRACTICES

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

GOOD HOUSEKEEPING

THE FOLLOWING 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 IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND/OR POSSIBLE UNDER A ROOF OR OTHER ENCLOSURE.

PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.

SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.

WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.

MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.

THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ON-SITE RECEIVE PROPER USE AND DISPOSAL.

HAZARDOUS PRODUCTS

THESE PRACTICES ARE USE 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 IF THEY CONTAIN IMPORTANT PRODUCT INFORMATION.

IF SURPLUS PRODUCT MUST BE DISPOSED OF MANUFACTURER'S OR LOCAL AGENCY RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

PRODUCT SPECIFIC PRACTICES

THE FOLLOWING PRODUCT SPECIFIC WILL BE FOLLOWED ON-SITE:

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 USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. APPLIED FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS

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 MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONCRETE TRUCKS

CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH 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.

MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE 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 BE INCLUDED BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (1:1 KITTY LITTER OR EQUAL), 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 WILL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL.

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.

THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS WILL BE THE SPILL PREVENTION AND CLEAN UP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ON-SITE.

MAINTENANCE/INSPECTION PROCEDURES

EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES

THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.

NO MORE THAN 10 ACRES OF THE SITE WILL BE DEVOTED AT ONE TIME WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.

ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOMEONE APPROVED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND FOLLOWING ANY STORM EVENT OF 0.25 INCHES OR GREATER.

ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.

BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.

SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT FENCE POSTS ARE FIRMLY IN THE GROUND.

THE SEDIMENT BASIN WILL BE INSPECTED FOR THE DEPTH OF SEDIMENT AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB, WHICHEVER COMES FIRST.

OVERFLOW DIKES/SWALES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.

TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.

A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. A REPORT SHALL BE COMPLETED BY HIS/HER INSPECTOR OR ENGINEER OF RECORD.

THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE OR LOCAL AGENCY APPROVING SEDIMENT AND EROSION PLANS, OR STORM WATER MANAGEMENT PLANS.

THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION IS SUBMITTED. THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE.

THE SITE SUPERINTENDENT WILL SELECT UP TO THREE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTION, MAINTENANCE AND REPAIR ACTIVITIES AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.

PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. THEY WILL BE TRAINED IN ALL INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ON-SITE IN GOOD WORKING ORDER.

NON-STORM WATER DISCHARGES

IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:

WATER FROM WATER LINE FLUSHING

PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED).

UNCONTAMINATED GROUND WATER (FROM DEWATERING EXCAVATION).

CONTRACTOR'S CERTIFICATION

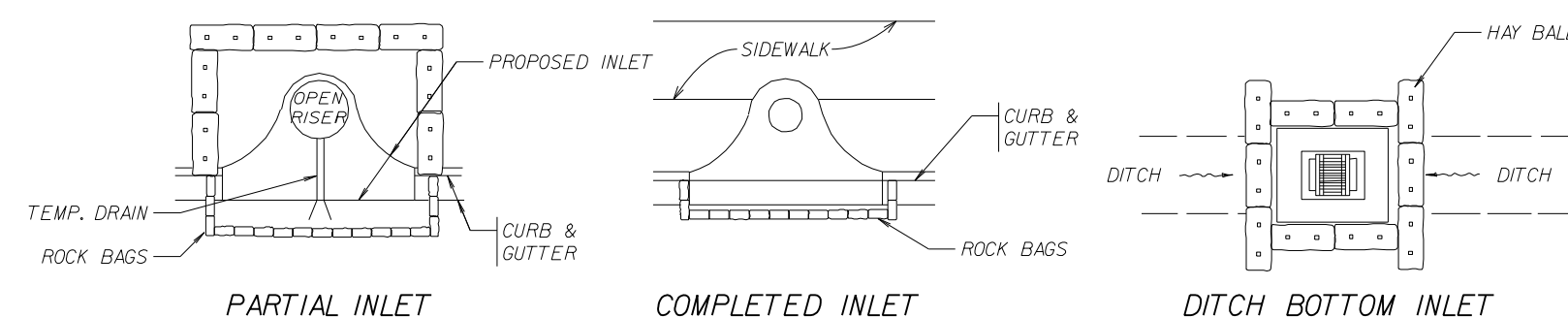
I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (GNDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

NOTES FOR SILT FENCES

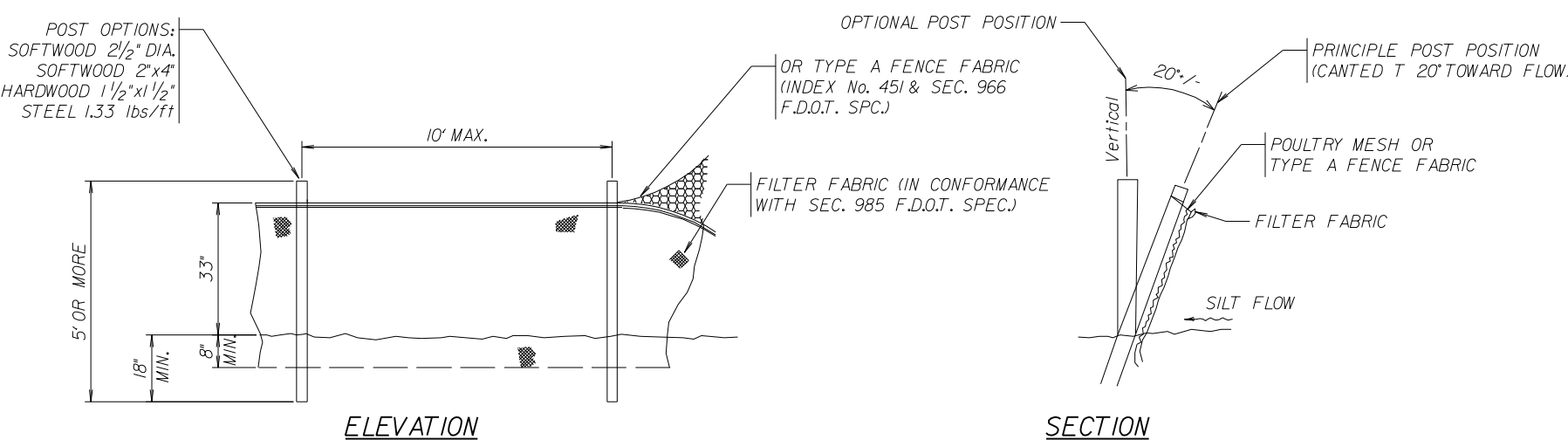
1. TYPE III SILT FENCE TO BE USED AT MOST LOCATIONS, WHERE USED IN DITCHES, THE SPACING FOR TYPE III SILT FENCE SHALL BE IN ACCORDANCE WITH CHART I.
2. TYPE IV SILT FENCE TO BE USED WHERE LARGE SEDIMENT LOADS ARE ANTICIPATED. SUGGESTED USE IS WHERE FILL SLOPE IS 12 OR STEEPER AND LENGTH OF SLOPE EXCEEDS 25 FEET. AVOID USE WHERE THE DETAINED WATER MAY BACK INTO TRAVEL LANES OR OFF THE RIGHT OF WAY.
3. DO NOT CONSTRUCT SILT FENCES ACROSS PERMANENT FLOWING WATER COURSES. SILT FENCES ARE TO BE AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.
4. WHERE USED AS SLOPE PROTECTION, SILT FENCE IS TO BE CONSTRUCTED ON 0% LONGITUDINAL GRADE TO AVOID CHANNELIZING RUNOFF ALONG THE LENGTH OF THE FENCE.
5. SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE, (L.F.).

NOTES FOR BALED HAY OR STRAW BARRIERS

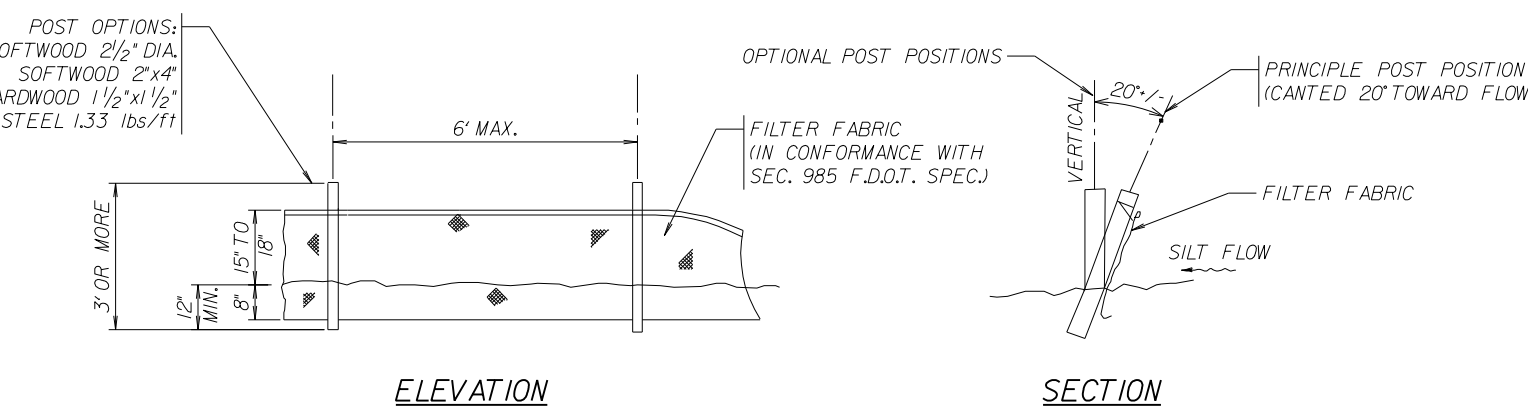
1. TYPE I AND II BARRIERS SHOULD BE SPACED IN ACCORDANCE WITH CHART I.
2. HAY BALES SHALL BE TRENCHED 3" TO 4" AND ANCHORED WITH 2" X 2" OR 1" DIA X 4" WOOD STAKES. STAKES OF OTHER MATERIAL OR SHAPE PROVIDING EQUIVALENT STRENGTH MAY BE USED IF APPROVED BY THE ENGINEER. STAKES OTHER THAN WOOD SHALL BE REMOVED UPON COMPLETION OF THE PROJECT.
3. RAILS AND POSTS SHALL BE 2" X 4" WOOD. OTHER MATERIALS PROVIDING EQUIVALENT STRENGTH MAY BE USED IF APPROVED BY ENGINEER.
4. ADJACENT BALES SHALL BE BUTTED FIRMLY TOGETHER. UNAVOIDABLE GAPS SHALL BE PLUGGED WITH HAY OR STRAW TO PREVENT SILT FROM PASSING.
5. WHERE USED IN CONJUNCTION WITH SILT FENCE, HAY BALES SHALL BE PLACED ON THE UPSTREAM SIDE OF THE FENCE.
6. BALES TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR BALED HAY OR STRAW, EA. THE UNIT PRICE SHALL INCLUDE THE COST OF FILTER FABRIC FOR TYPE I AND II BARRIERS. SAND BAGS SHALL BE PAID FOR UNDER THE UNIT PRICE FOR SANDBAGGING. CY. ROCK BAGS TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR ROCK BAGS, EA.



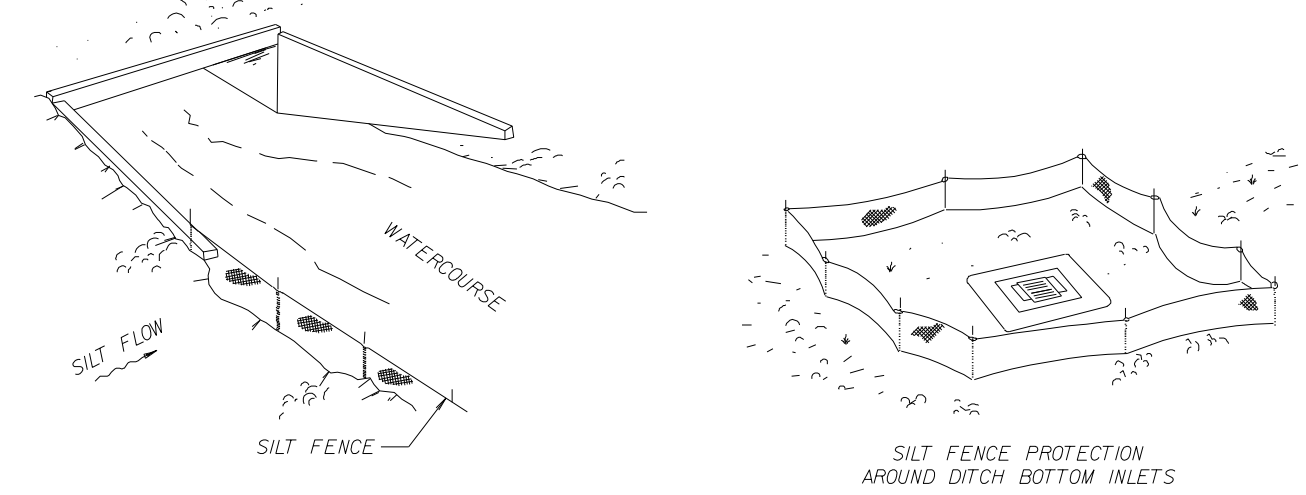
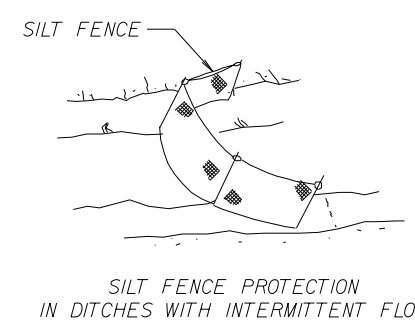
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



TYPE IV SILT FENCE



TYPE III SILT FENCE



SILT FENCE APPLICATIONS



Know what's below.
Call before you dig.



NO.	REVISIONS	DATE	NO.	REVISIONS	DATE

DESIGNED: BMP	DATE: 10/2023
DRAWN: AFA	DATE: 10/2023
CHECKED: BMP	DATE: 11/2023

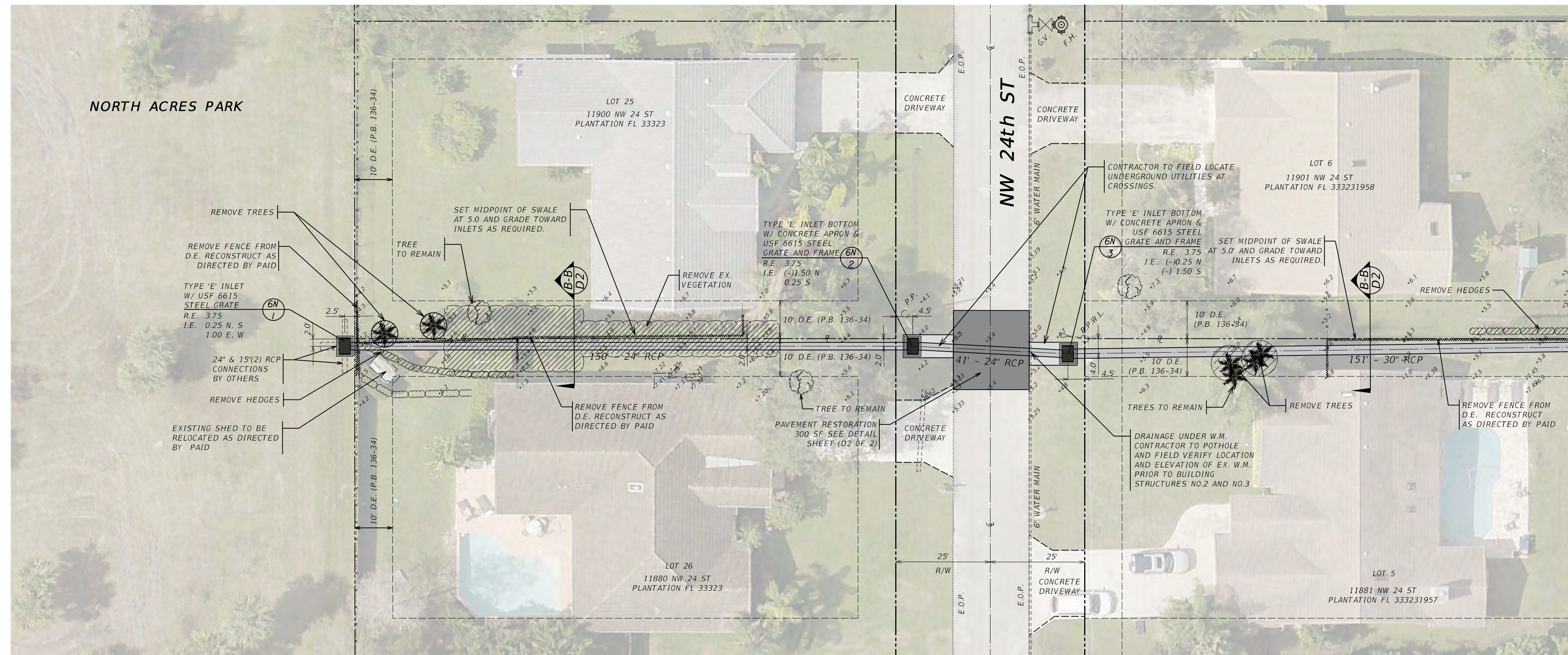


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OFF-SITE IMPROVEMENTS FOR NORTH ACRES PARK
PLANTATION ACRES IMPROVEMENT DISTRICT

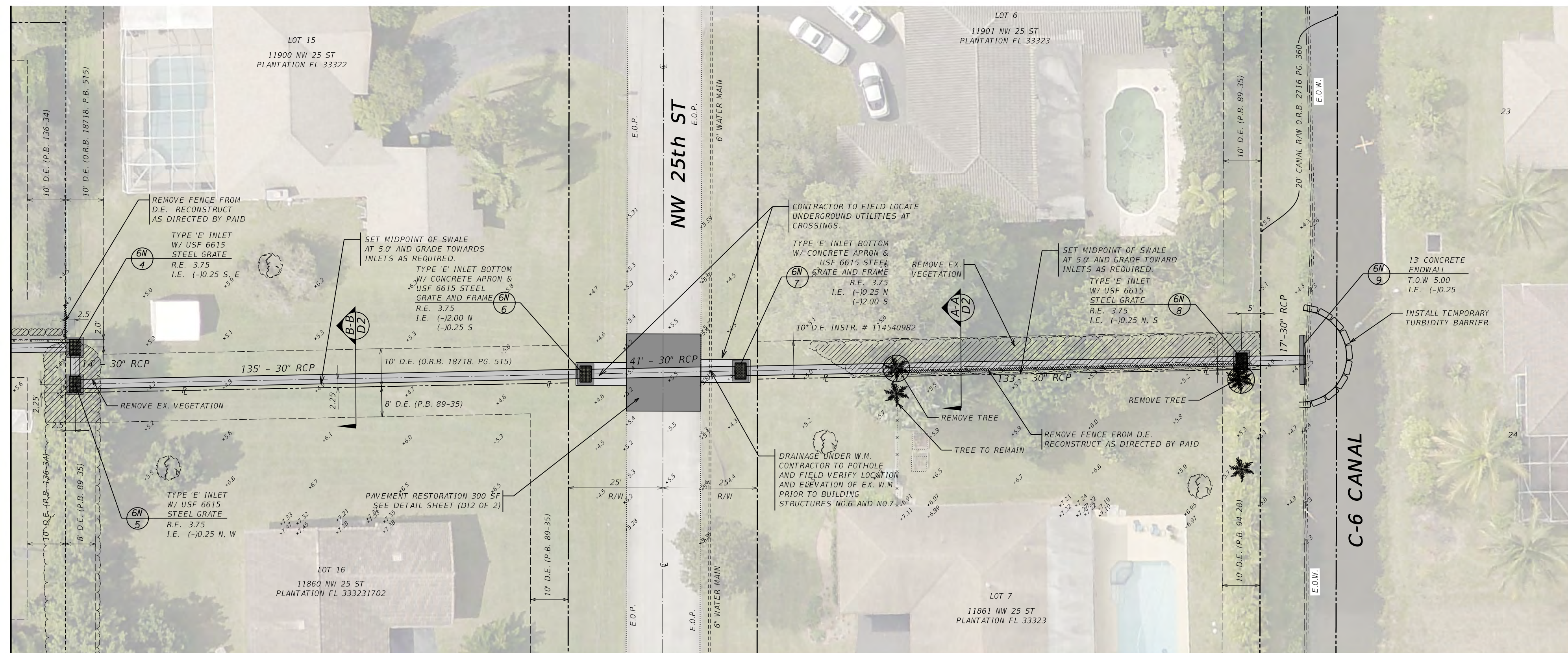
TEMPORARY POLLUTION PREVENTION
GENERAL NOTES & DETAILS

PUBLISHED: 12/6/2023, 2:33:55 PM	
PROJECT NUMBER: D2308.03	SHEET: TPP1 OF 1



NOTE: AERIAL IMAGERY SHOWN FOR INFORMATIONAL PURPOSES ONLY AND IS NOT INTENDED TO DEPICT CURRENT SITE CONDITIONS

MATCH-LINE



MATCH-LINE

LEGEND			
	DRAINAGE PIPE		TYPICAL TREE
	DRAINAGE CENTER LINE		TYPICAL PALM
	DRAINAGE EASEMENT		VEGETATION LINE
	ROAD R/W		TYPICAL HEDGE
	CENTER LINE R/W		PAVEMENT RESTORATION
	EDGE OF PAVEMENT		PROPOSED INLET
	WATER MAIN		CROSS-SECTION ID
	PROPERTY LINE		DETAIL SHEET ID
	EDGE OF WATER		WATER METER
	CONTOUR LINE		POWER POLE WITH LIGHT
	FENCE		POWER POLE
	EXISTING SPOT ELEVATION		PROPOSED GRADE
	PROPOSED GRADE		REMOVE LANDSCAPING
	OVERHEAD ELECTRIC		REMOVE FENCE
	BURIED TELEPHONE		
	DRAINAGE STRUCTURE I.D.		

ABBREVIATIONS	
B.T.	BURIED TELEPHONE
C.L.	CENTER LINE
C.L.	CHAIN LINK
D.E.	DRAINAGE EASEMENT
D.W.E.	DESIGN WATER ELEVATION
E.O.P.	EDGE OF PAVEMENT
E.O.W.	EDGE OF WATER
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION
I.E.	INVERT ELEVATION
M.W.	WATER METER
N.A.V.D.	NORTH AMERICAN VERTICAL DATUM
O.E.	OVERHEAD ELECTRIC
O.R.B.	OFFICIAL RECORDS BOOK
G.V.	GATE VALVE
P.A.I.D.	PLANTATION ACRES IMPROVEMENT DISTRICT
P.B.	PLAT BOOK
P.P.	POWER POLE
P.P.W.L.	POWER POLE WITH LIGHT
R.C.P.	REINFORCED CONCRETE PIPE
R/W	RIGHT-OF-WAY
S.H.	SPRINKLER HEAD
T.O.W.	TOP OF WALL
TYP.	TYPICAL
U.E.	UTILITY EASEMENT
USF	U.S. FOUNDRY
W.M.	WATER MAIN
F.H.	FIRE HYDRANT

- NOTES:**
- CONTRACTOR TO NOTIFY UTILITY COMPANIES PRIOR TO DRAINAGE SYSTEM INSTALLATIONS. UNDERGROUND UTILITIES TO INCLUDE FLORIDA POWER AND LIGHT, BELLSOUTH (AT&T), COMCAST CABLE AND PLANTATION UTILITIES.
 - PIPE LENGTHS SHOWN ARE COMPUTED TO THE CENTER OF THE INLET/MANHOLE.
 - MINOR ADJUSTMENTS SHOULD BE MADE TO THE LOCATION OF NEW DRAINAGE TO AVOID CONFLICTS, WITH THE APPROVAL OF THE ENGINEER.
 - CONTRACTOR TO PROVIDE A MAINTENANCE OF TRAFFIC (MOT) PLAN.
 - CONTRACTOR TO CONTACT THE CITY OF PLANTATION PUBLIC WORKS DEPARTMENT TO COORDINATE MINIMUM DISRUPTIONS TO THE GARBAGE COLLECTION SERVICE.
 - PRIOR TO EXCAVATION, CONTRACTOR SHALL RUN THE PRIVATE IRRIGATION SYSTEMS AND RECORD THE LOCATION OF ALL SPRINKLER HEADS FOR PROPER RESTORATION.
 - WATER SERVICE LINES IMPACTED BY CONSTRUCTION ACTIVITIES SHALL BE REPAIRED, REPLACED, AND/OR RELOCATED AS REQUIRED WITHOUT PROLONGED INTERRUPTION OF SERVICE. NO NEW TAPS ARE ALLOWED WITHOUT PRIOR APPROVAL FROM PLANTATION UTILITIES DEPARTMENT.
 - COORDINATE FENCE RELOCATION WITH DISTRICT STAFF NO LESS THAN 3 WEEKS PRIOR SCHEDULED CONSTRUCTION.
 - ANY TREES, BUSHES AND SHRUBS IN THE IMMEDIATE VICINITY OF THE EXCAVATION FOR THE DRAINAGE WORKS SHALL BE REMOVED TO GROUND LEVEL BY THE DISTRICT STAFF.
 - ALL ROOTS, ROOT BALLS, OR STUMPS IMPACTING THE EXCAVATION FOR THE DRAINAGE WORKS SHALL BE REMOVED BY THE CONTRACTOR, AS REQUIRED.



NO.	REVISIONS	DATE	NO.	REVISIONS	DATE

DESIGNED: BMP DATE: 10/2023
 DRAWN: AFA DATE: 10/2023
 CHECKED: BMP DATE: 11/2023

WINNINGHAM & FRADLEY
 ENGINEERS • PLANNERS • SURVEYORS
 171 N.E. 44th STREET • OAKLAND PARK, FL 33324
 OFFICE: 954.771.7440 • FAX: 954.771.0208 • WWW.WINFRAD.COM

OFF-SITE IMPROVEMENTS FOR NORTH ACRES PARK
 PLANTATION ACRES IMPROVEMENT DISTRICT

DRAINAGE LATERAL "6N"
PLAN

PUBLISHED: 12/6/2023, 2:35:39 PM
 PROJECT NUMBER: D2308.03
 SHEET: D1 OF 2

General Notes:

Specified tree root barriers are a mechanical barrier and root deflector to prevent tree roots from damaging hardscapes and landscapes. Assembled in 2' long modules to create varying sizes of cylinders for surrounding root balls (Surround planting style) or for linear applications directly beside a hardscape adjacent to one side of the trees (Linear planting style).

A. Materials

1. The contractor shall furnish and install tree root barriers as specified. The tree root barriers shall be product # UB 24-2 as manufactured by Deep Root Partners, L.P., 345 Lorton Ave., #103, Burlingame, CA (800-458-7668), or approved equal. The barrier shall be Black, Injection Molded Panels, of 0.085" wall thickness in modules 24" long by 24" deep, manufactured with a minimum 50% post consumer recycled polypropylene plastic with added ultraviolet inhibitors; recyclable. Each panel shall have:

Not less than 4 Molded Integral Vertical Root Deflecting Ribs of at least 0.085" thickness protruding 1/2" at 90° from interior of the barrier panel, spaced 6" apart. (See panel drawing below)

A Double Top Edge consisting of two parallel, integral, horizontal ribs at the top of the panel of a minimum 0.085" thickness, 7/16" wide and 1/4" apart with the lower rib attached to the vertical root deflecting ribs. (See detail "A")

A minimum of 9 Anti-Lift Ground Lock Tabs consisting of integral horizontal ridges of a minimum 0.085" thickness in the shape of a segment of a circle, the 2" chord of the segment joining the panel wall and the segment, protruding 3/8" from the panel. The nine ground locks on each panel shall be about equally spaced between each of the vertical root deflecting ribs (3 between each set of ribs, see Detail "B").

An integrated Zipper Joining System providing for instant assembly by sliding one panel into another. (See Detail "C")

2. The basic properties of the material shall be:

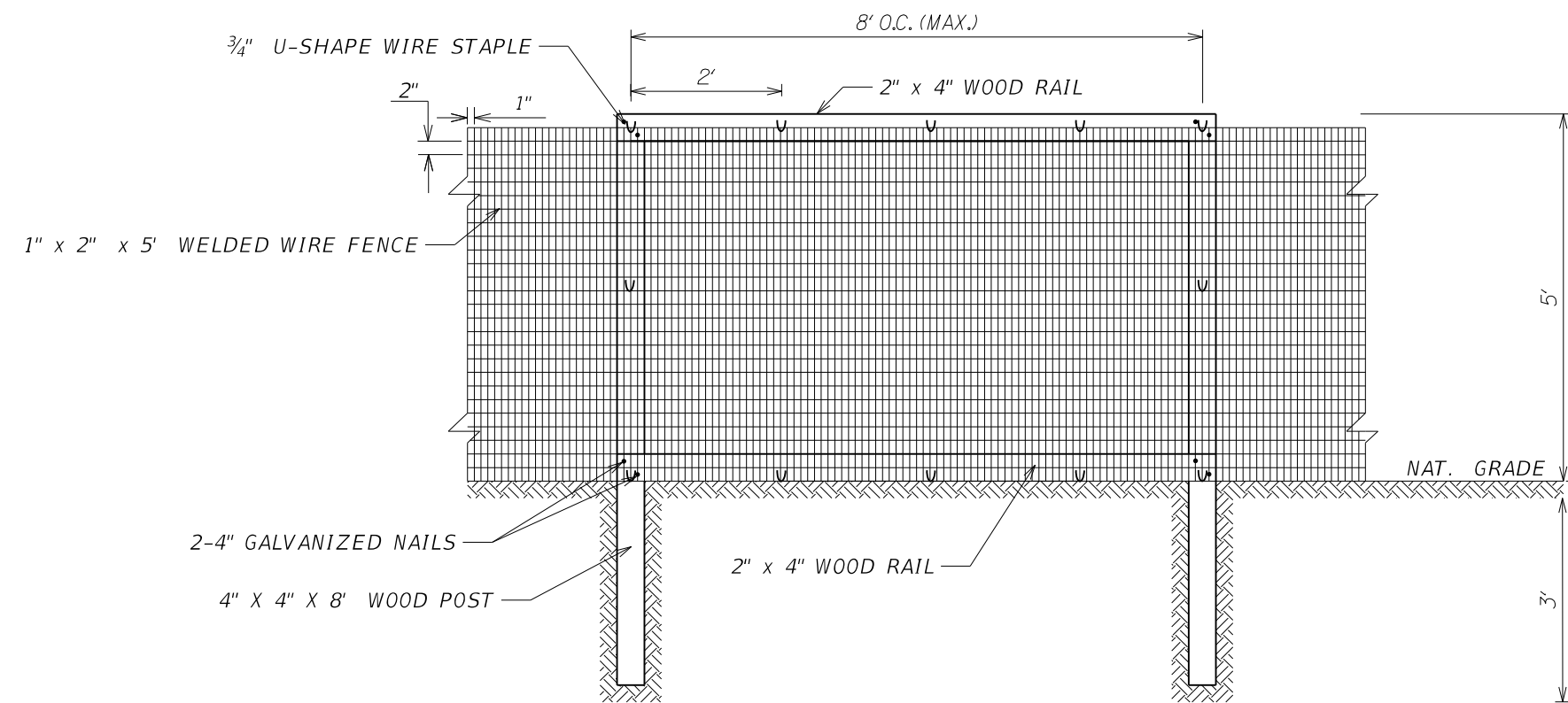
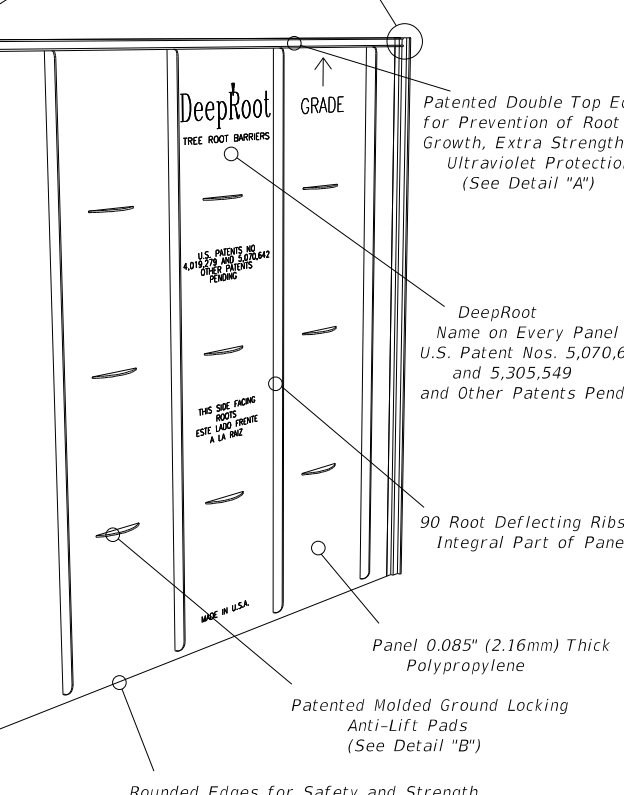
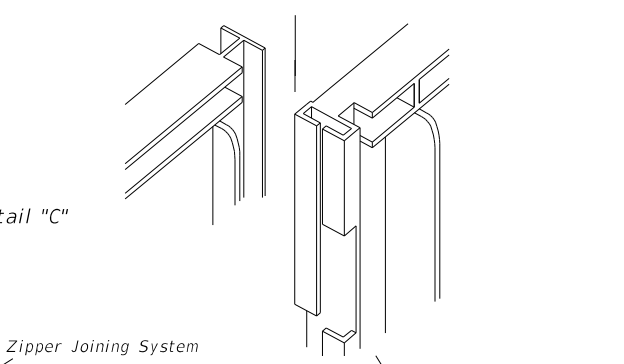
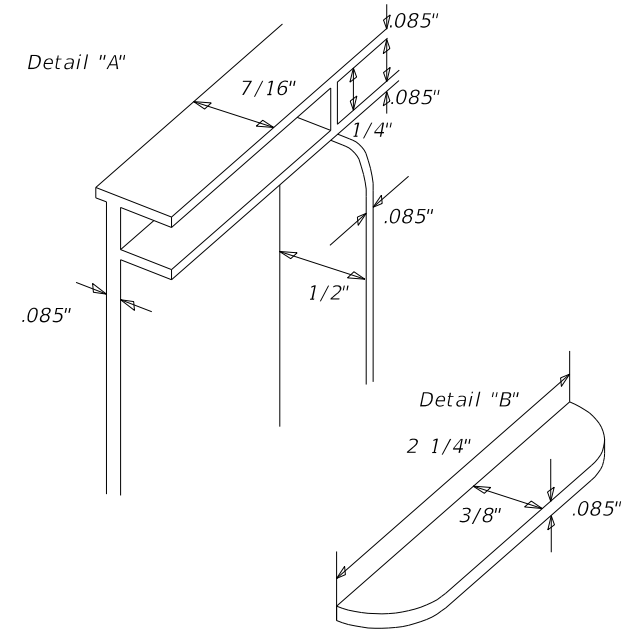
Test	ASTM Test Method	Value	Copolymer Polypropylene
Tensile stress @ yield	D638	3800	PSI
Elongation @ yield	D638	6.3%	
Flexural Modulus	D790B	155,000	PSI
Notched Izod Impact	D256A	7.1	
Rockwell Hardness r. scale	D785A	68	

U.S. Patents: 5,305,549 and 5,070,642. Other Patents Pending.

B. Construction and Installation

1. The contractor shall install the tree root barriers with the number of panels and in the manner shown on the Drawings. The vertical root deflecting ribs shall be facing inwards to the root ball and the top of the double edge shall be 1/2" above grade. Each of the required number of panels shall be connected to form a circle around the root ball or where specified joined in a linear fashion and placed along the adjacent hardscape.

2. Excavation and soil preparation shall conform to the Drawings. The tree root barriers shall be backfilled on the outside with 3/4" to 1 1/2" gravel or crushed rock as shown on the Drawings. No gravel backfill is required for a linear planting

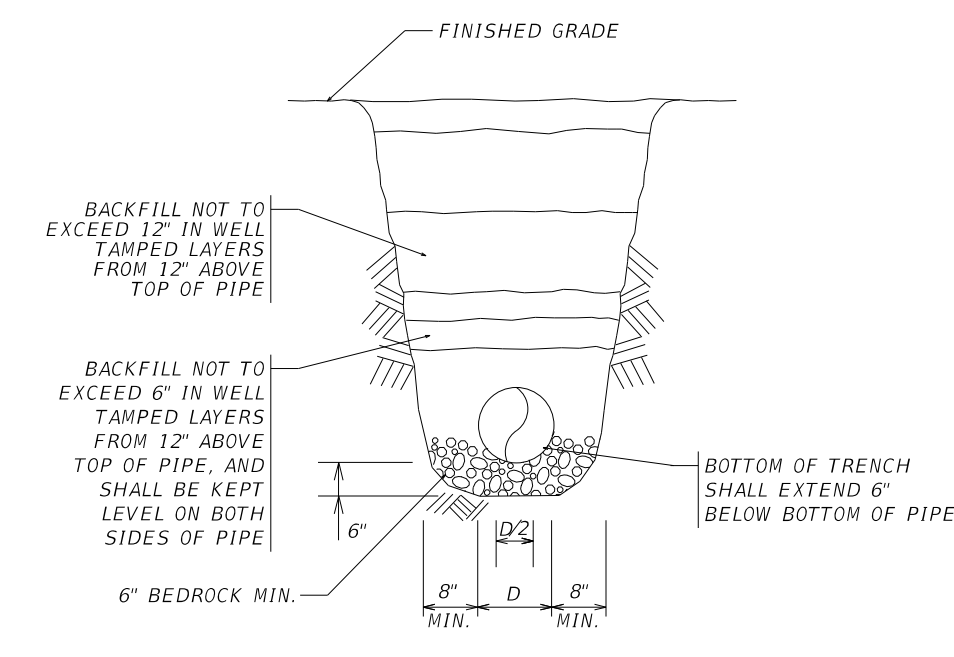


TEMPORARY FENCING DETAIL

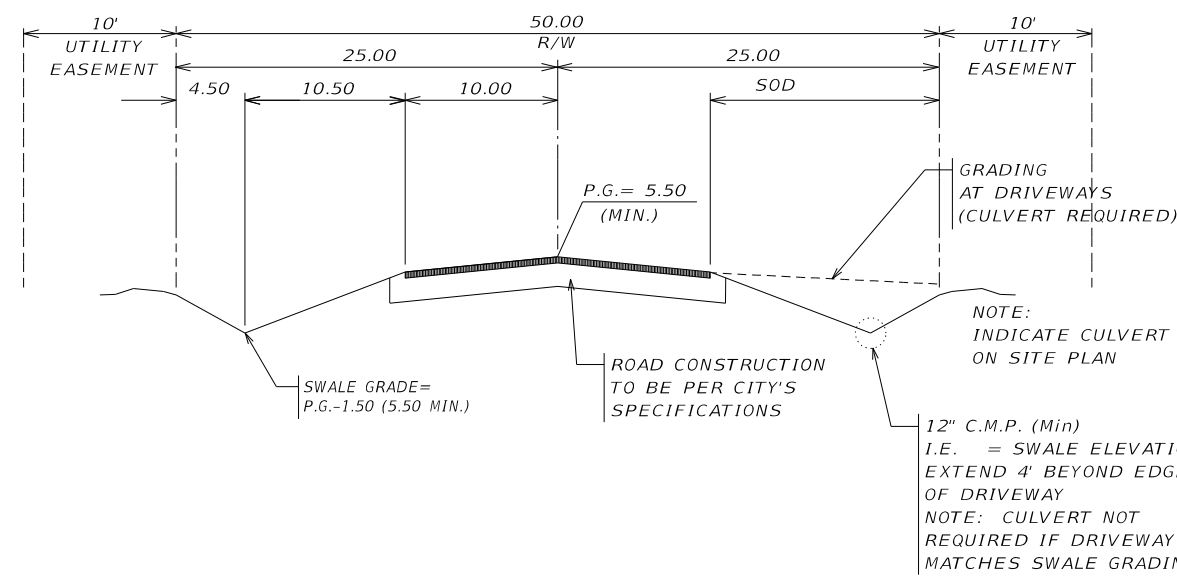
N.T.S.

FENCING NOTES:

1. WELDED WIRE FENCING SHALL BE 1"x2" GRID, 5' IN HEIGHT. WIRE SHALL BE MINIMUM 12 GAUGE GALVANIZED STEEL.
2. CORNER AND LINE POSTS SHALL BE WOOD (4"x4"x8") No.2 GRADE OR BETTER EMBEDDED 3' INTO THE GROUND. SPACING SHALL BE 8' MAX. BETWEEN POSTS.
3. TOP AND BOTTOM RAILS SHALL BE WOOD No.2 GRADE OR BETTER FASTENED TO CORNER AND LINE POSTS BY 4" GALVANIZED NAILS, DIAGONALLY PLACED.
4. WIRE STAPLES SHALL BE 3/4" LENGTH, 12 GAUGE, CORROSION RESISTANT, SPACED 2' APART WHEN FASTENING WIRE FENCING TO TOP AND BOTTOM WOOD RAILS.
5. FENCING SEQUENCE SHALL BEGIN WITH INSTALLING WOOD POSTS, TOP AND BOTTOM RAILS, FOLLOWED BY WIRE FENCE TO POSTS USING WIRE STAPLES.
6. BOTTOM OF FENCE TO FOLLOW THE NATURAL CONTOUR OF THE LAND.
7. CONTRACTOR TO VERIFY ALL MATERIALS WITH F.B.C. PRIOR TO FENCE INSTALLATION.

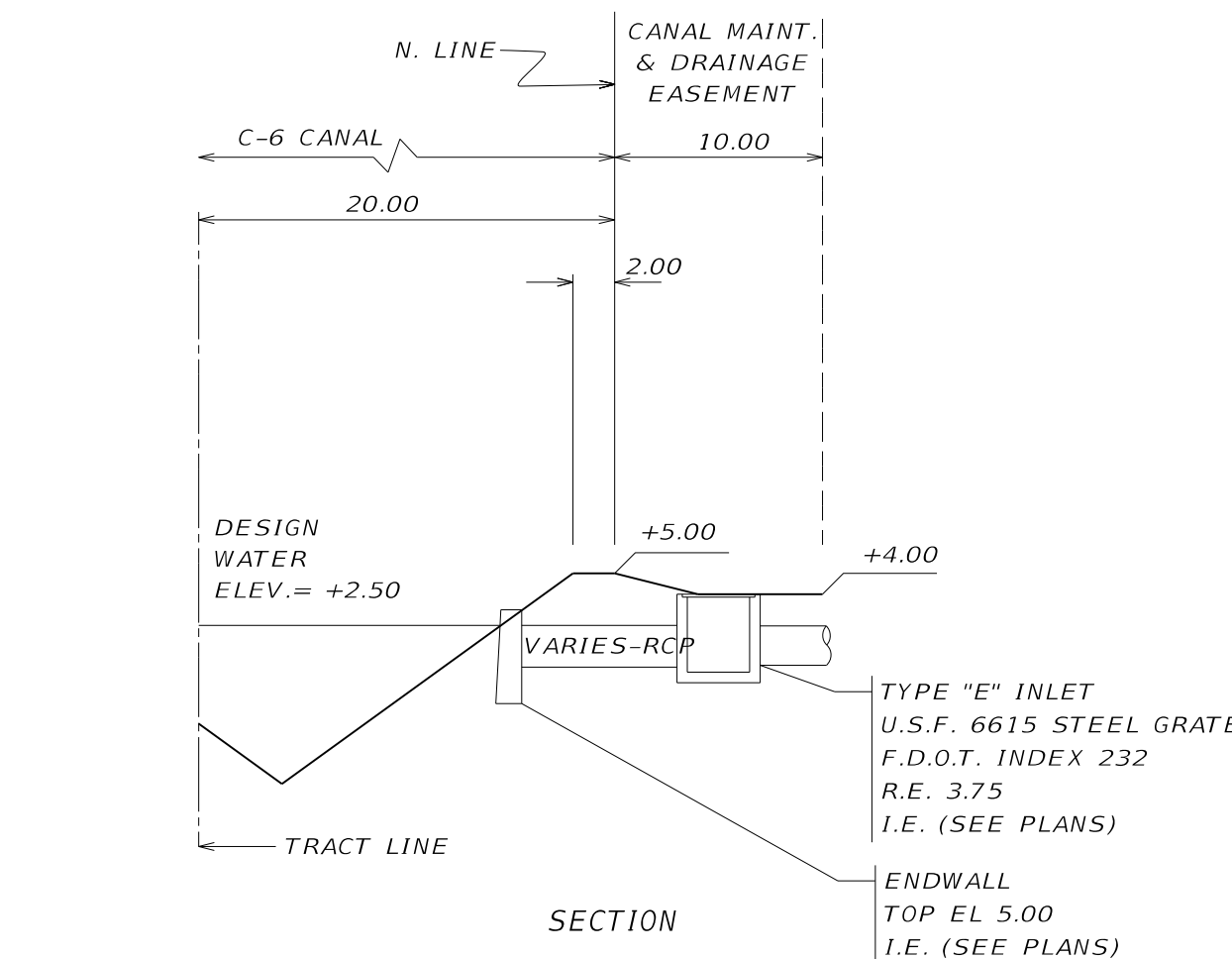


PIPE BEDDING DETAIL



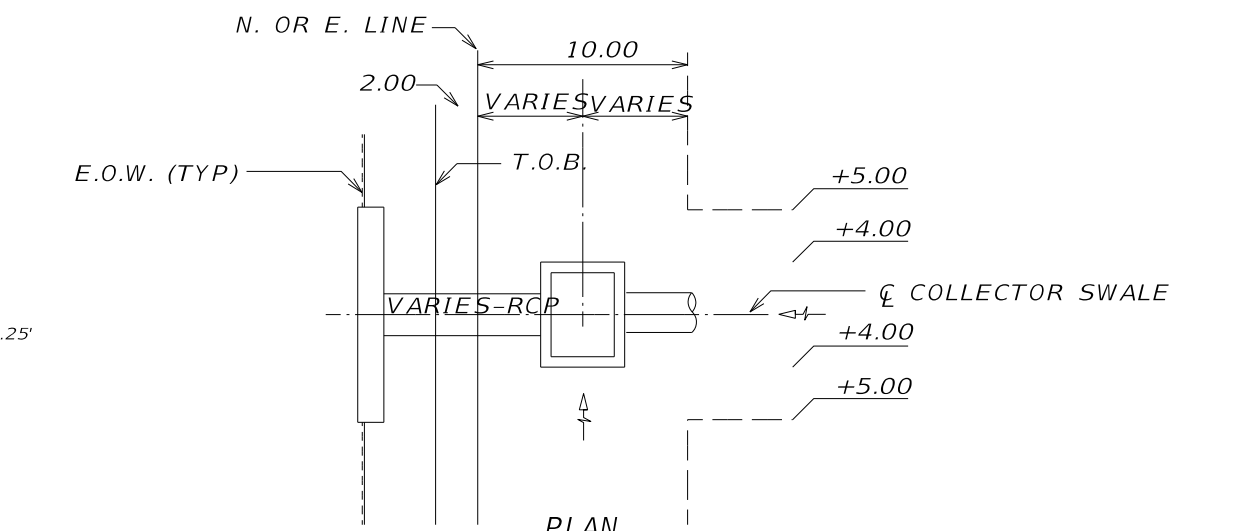
TYPICAL ROADWAY SECTION

N.T.S.



CONNECTION TO CANAL DETAIL

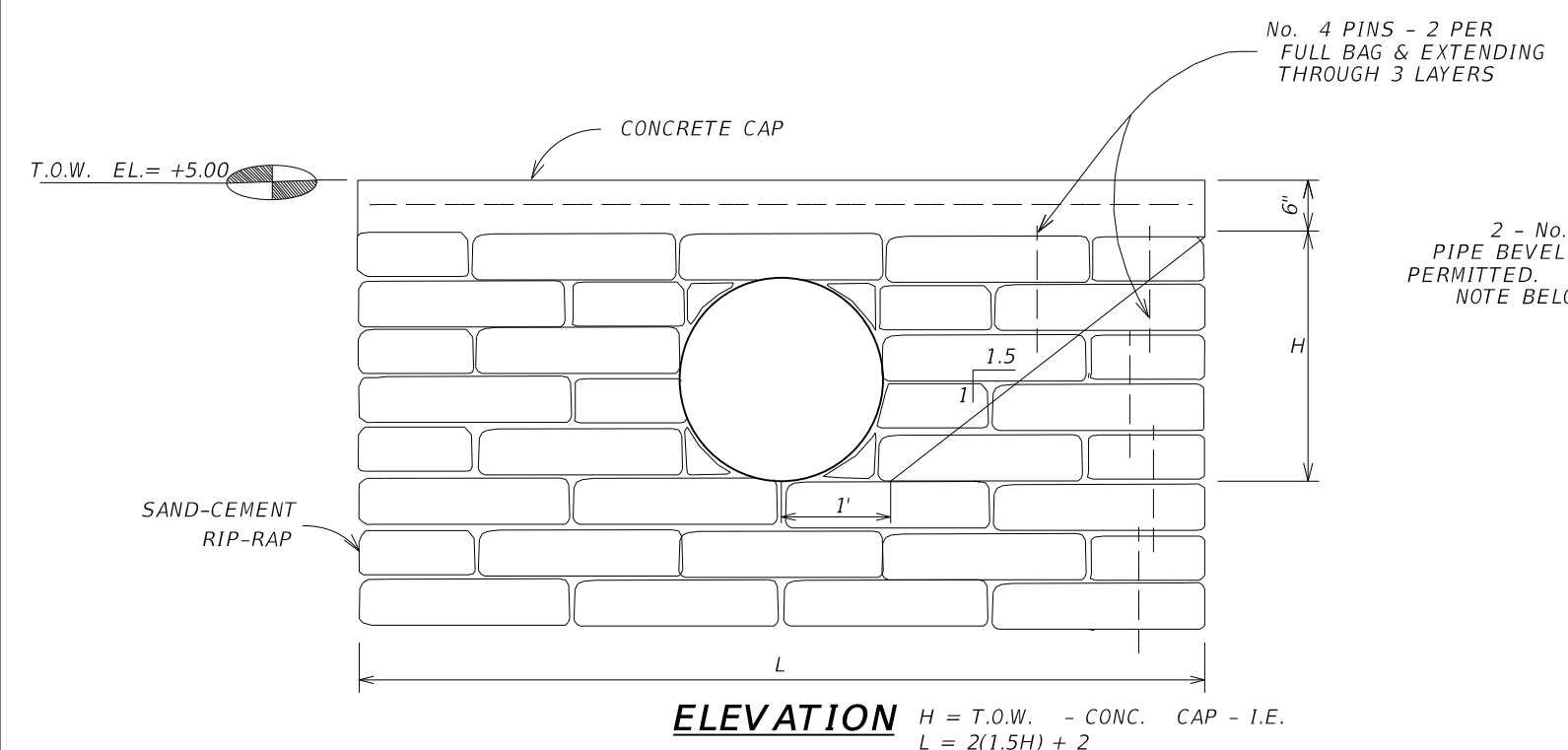
N.T.S.



SECTION

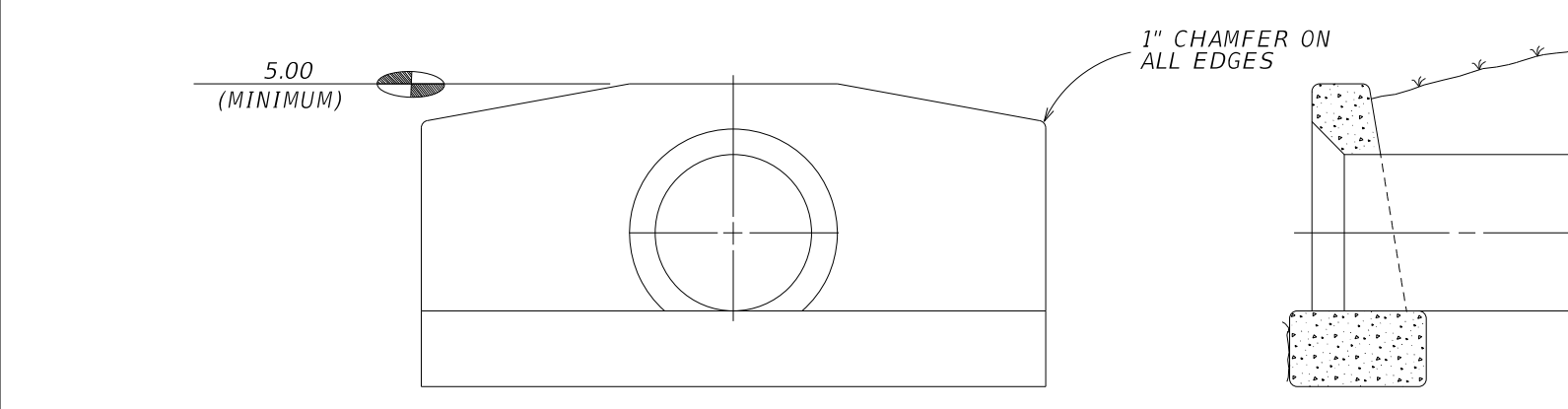
N.T.S.

24" DEEPROOT TREE ROOT BARRIERS



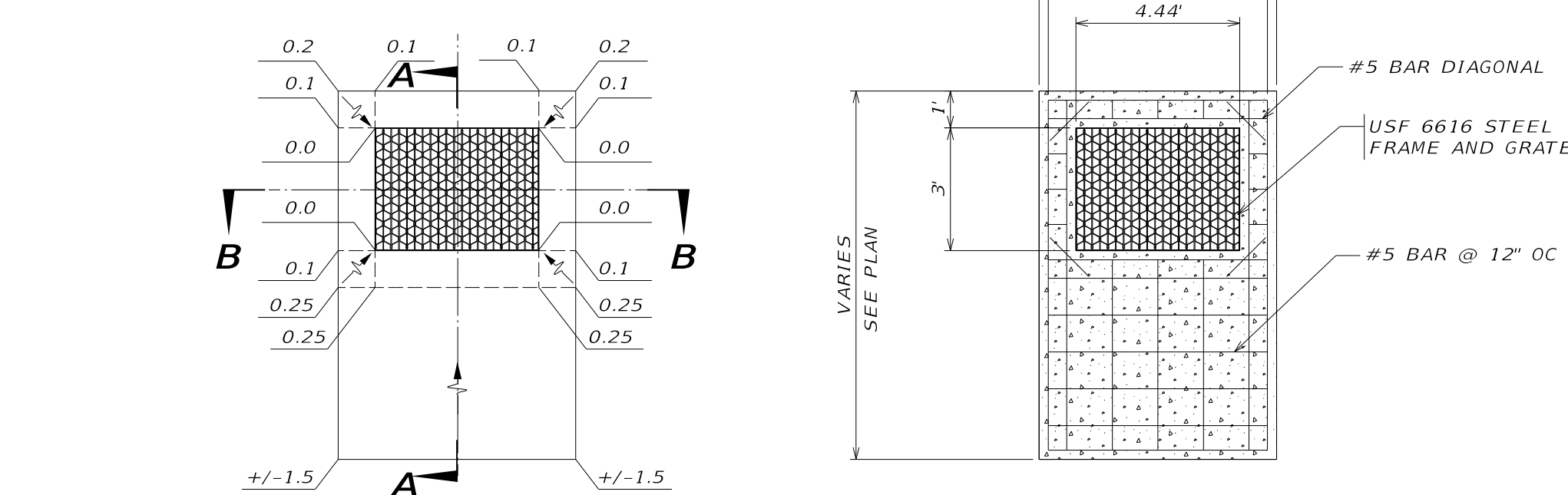
RIP-RAP HEADWALL DETAIL

NOTE: REFER TO F.D.O.T. INDEX NO. 258 FOR RIP-RAP HEADWALL DETAILS & DIMENSIONS, UNLESS OTHERWISE SHOWN ON CONSTRUCTION PLANS



PRECAST CONCRETE HEADWALL DETAIL

NOTE: REFER TO F.D.O.T. INDEX NO. 250 FOR CONCRETE HEADWALL DETAILS & DIMENSIONS, UNLESS OTHERWISE SHOWN ON CONSTRUCTION PLANS



SECTION A

SECTION B

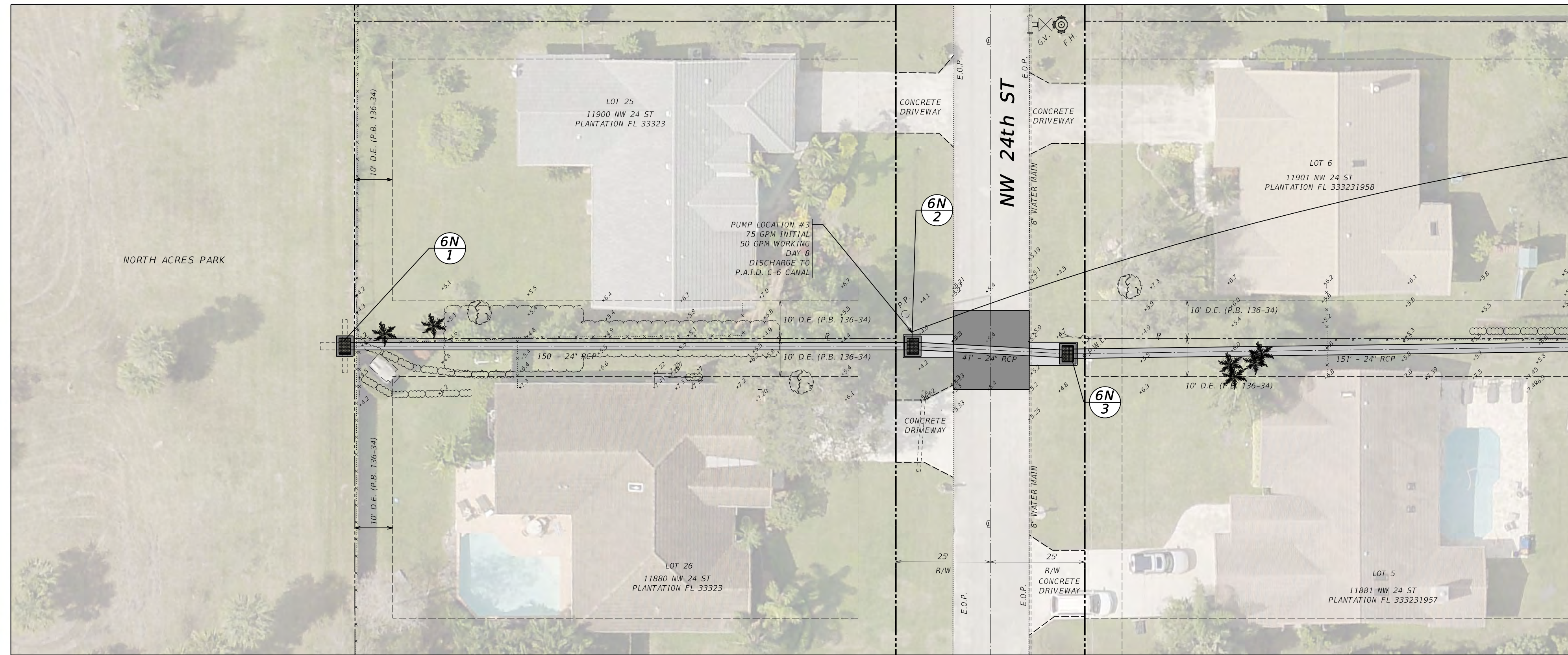
CONCRETE APRON DETAIL

- NOTES:
1. TOP SLAB SHALL BE MIN. OF 8" THICK REINFORCED CONCRETE.
 2. REINFORCED STEEL SHALL BE #5 BAR SPACED MIN. 12" OFF CENTER.
 3. CONCRETE APRON SHALL BE ADJUSTED TO FIT VARIOUS INLET BOX SIZES WHILE USING A STANDARD STEEL GRATE: USF No. 6616.
 4. THE OPTION TO USE STEEL GRATE USF No. 6615 FOR NON-VEHICULAR LOCATIONS IS ACCEPTABLE WITH APPROVAL FROM MUNICIPALITY OR ENGINEER OF RECORD.
 5. RIM ELEVATION SHALL BE SET 0.25' BELOW CENTER LINE SWALE ELEVATION.
 6. 1.5" DIAGONAL #5 BARS SHALL BE INSTALLED TO REDUCE THE CHANCE OF CRACKING AT CORNERS.
 7. THERE SHALL BE 3" MIN. CLEARANCE FROM EDGE OF CONCRETE TO THE FACE OF THE REBAR.



Know what's below. Call before you dig.





MATCH-LINE

DEWATERING SCHEDULE FOR DRAINAGE LINES				
DAY(S)	START LOCATION	FINISH LOCATION	CONSTRUCTION ACTIVITY	LENGTH (FT)
1	STRUCTURE NO. 9 (ENDWALL)	STRUCTURE NO. 9 (ENDWALL)	PUMP LOCATION NO. 1	0
2	STRUCTURE NO. 9 (ENDWALL)	STRUCTURE NO. 7 (INLET)	INSTALL 30" R.C.P.	149
3-4	STRUCTURE NO. 7 (INLET)	STRUCTURE NO. 4 (INLET)	INSTALL 24" R.C.P.	196
5	STRUCTURE NO. 4 (INLET)	STRUCTURE NO. 2 (INLET)	PUMP LOCATION NO. 2	0
6-7	STRUCTURE NO. 4 (INLET)	STRUCTURE NO. 2 (INLET)	INSTALL 24" R.C.P.	193
8	STRUCTURE NO. 2 (INLET)	STRUCTURE NO. 2 (INLET)	PUMP LOCATION NO. 3	0
9	STRUCTURE NO. 2 (INLET)	STRUCTURE NO. 1 (INLET)	INSTALL 24" R.C.P.	143
			TOTAL LENGTH (FT) =	681
			AVE. LENGTH PER DAY (FT/DAY) =	114

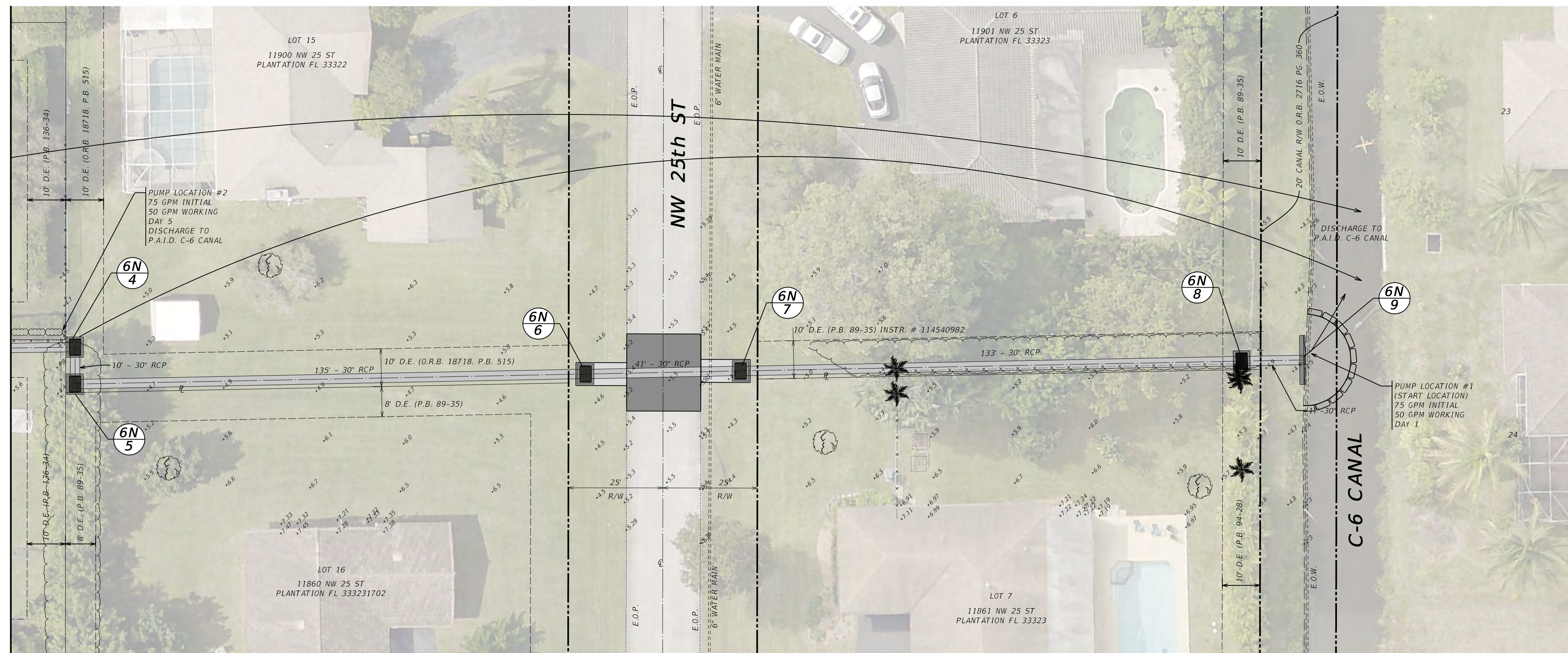
DRAINAGE FLOW VOLUMES				
ITEM	PHASE	GPM	HOURS	GPD
PUMP LOCATION NO. 1	INITIAL	75	2	9,000
	WORKING	50	10	30,000
PUMP LOCATION NO. 2	INITIAL	75	2	9,000
	WORKING	50	10	30,000
PUMP LOCATION NO. 3	INITIAL	75	2	9,000
	WORKING	50	10	30,000

DRAINAGE TOTAL PROJECT VOLUME			
PHASE	GPD	DAYS	TOTAL (GAL)
INITIAL	9,000	3	27,000
WORKING	30,000	6	180,000
TOTAL DEWATERING FOR DRAINAGE =			207,000

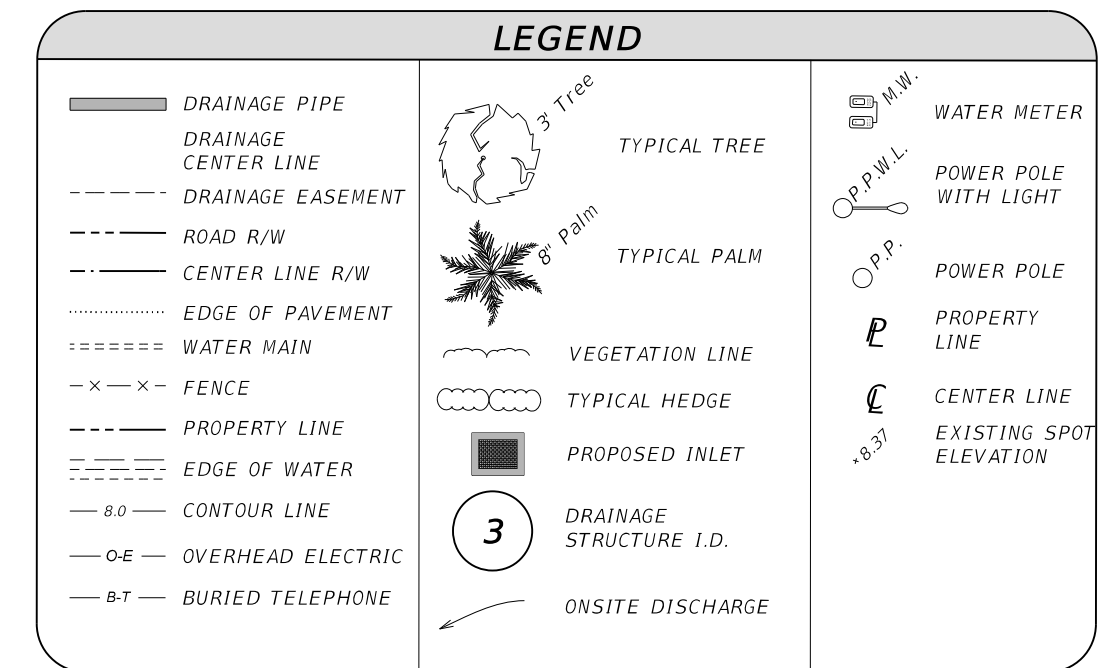
DRAINAGE MAXIMUM PER DAY SUMMARY			
PHASE	TOTAL (GAL)	DAYS	MAX (GPD)
INITIAL	27,000	3	9,000
WORKING	180,000	6	30,000
TOTAL MAXIMUM PER DAY =			39,000

- NOTES:
- THE DEWATERING SCHEDULE WAS DESIGNED WITH THE SAME PUMP BEING MOVED FROM ONE LOCATION TO THE NEXT.
 - THE INITIAL START UP WAS ESTIMATED TO START THE PUMPS IN THE MORNING TO DRAW DOWN THE WATER. THE WORKING TIMES WERE ESTIMATED AS WORKING HOURS IN THE DAY AND MAINTAINING THE WATER DRAWDOWN.

NOTE: AERIAL IMAGERY SHOWN FOR INFORMATIONAL PURPOSES ONLY AND IS NOT INTENDED TO DEPICT CURRENT SITE CONDITIONS



MATCH-LINE



- NOTES:
- FOR DEWATERING SCHEDULE, DRAINAGE MAX. FLOW AND TOTAL PROJECT VOLUMES REFER TO THIS SHEET.
 - CONTRACTOR TO NOTIFY P.A.I.D. DISTRICT MANAGER AT (954) 549-8985 PRIOR TO DEWATERING.
 - ALL SIX EXISTING PUMPS LOCATED WITHIN P.A.I.D. WILL BE SHUTOFF BEFORE DEWATERING TO ALLOW DISCHARGE TO REMAIN ON SITE (P.A.I.D. C-6 CANAL).
 - REFER TO P.A.I.D. FACILITIES MAP FOR EXISTING PUMP LOCATIONS.
 - P.A.I.D. PUMP FACILITIES TO BE TURNED ON WITHIN 48 HOURS AFTER DEWATERING.

- SEQUENCE OF CONSTRUCTION:
- MOBILIZE EQUIPMENT.
 - INSTALL POLLUTION PREVENTION SYSTEM.
 - BEGIN DRAINAGE SYSTEM DEWATERING PUMP #1.
 - BEGIN DRAINAGE AND CONSTRUCTION. ALL DISCHARGE WILL BE DIRECTED TO P.A.I.D. C-6 CANAL AND REMAIN ON-SITE.
 - PROCEED WITH MOVING PUMP TO NEXT LOCATION.
 - END ON-SITE DEWATERING.



Know what's below.
Call before you dig.



NO.	REVISIONS	DATE	NO.	REVISIONS	DATE

DESIGNED: BMP DATE: 10/2023
 DRAWN: AFA DATE: 10/2023
 CHECKED: BMP DATE: 11/2023

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 171 N.E. 44th STREET • OAKLAND PARK, FL 33324
 office: 954.771.7440 • fax: 954.771.0208 • www.winfrad.com

OFF-SITE IMPROVEMENTS FOR NORTH ACRES PARK
 PLANTATION ACRES IMPROVEMENT DISTRICT

DRAINAGE LATERAL "6N"
 CONSTRUCTION DEWATERING PLAN

PUBLISHED: 12/6/2023, 2:34:53 PM
 PROJECT NUMBER: D2308.03 SHEET: DW1 OF 1

ENGINEER'S STAFF REPORT
FOR December 14, 2023 MEETING
AGENDA ITEM No.: C3

Action Required: Board Action

Item Description: Portable Auxiliary Pump

P.A.I.D. Number: D2301.01

Attachments: 8-1/2" x 11" Spec Sheet for 6 Portable Pump

Summary: This item is in response to standing water in the South Acres after significant storm events. The following are several contributing factors:

The roads become submerged as they were built too low by the City (one foot lower than today's standards). The average ground level is lower than the rest of the District and this results in the South Acres having a greater depth of water. Slower flow occurs as the drainage rate is reduced resulting in periodic inundation.

The City's consultant is preparing a storm water management study and this includes the South Acres. This study should be complete prior to next year's wet season.

Per the request of the Board at the October meeting, a portable auxiliary pump was discussed to serve not only the South Acres, but the entire District during and/or thereafter significant rainstorm events and for potential emergencies as needed.

Comments: Recommend Approval.

Prepared by: BMP Date: 12/07/23

PRIMERITE™ CT006

6" X 6" AUTOMATIC DRY SELF-PRIMING TRASH PUMP



FSA AWARDED
CONTRACT

fsheriffs.org | 850-877-2165
cpp@fsheriffs.org



BID AWARD FSA20-VEH18.0, HEAVY TRUCKS & EQUIPMENT SPECIFICATION #241 - 6 INCH MOBILE PUMP PACKAGE

The Primerite™ CT006 is a reliable, diesel-driven mobile water pump that can be used for anything from construction dewatering, to sewage bypass and flood drainage. The pump's oil-filled bearing box and mechanical seal in an oil bath enable it to dry-prime and re-prime up to 43 hours straight, making it the right choice for handling inconsistent flows in municipal sewage bypass pumping, storm water control and job site dewatering. This pump is a complete pump station on wheels with integral lifting bail, tie downs and 78 gal fuel tank. The FSA approved CT006 boasts max flows up to 2300 GPM, 3" solids handling and max head of 160' TDH.

FSA APPROVED CT006 FEATURES

- 6" portable trash pump for dewatering, bypass & flood control
- EPA emission complaint Final Tier 4 diesel engine with engine driven compressor
- Heavy-duty CA-40 corrosion resistant iron, ductile cast iron ASTM A536 grade 70-50-05, 1045 and 304 stainless steel construction
- Solids handling up to 3"
- High heads up to 160' & high-volume pumping up to 2300 GPM
- Auto dry-primers and re-primers up to 43 hours at 50% load*
- Complete pump station with integral lifting bail, tie downs and 78 gal fuel tank with gauge
- Manufactured in the USA in an ISO9001:2015 certified facility

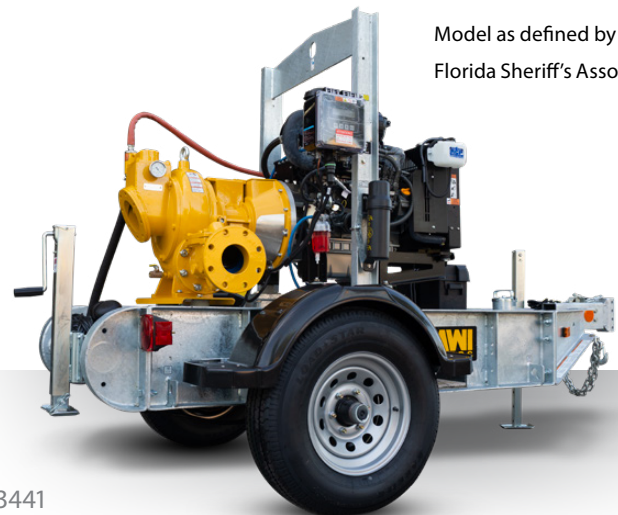
FSA BID AWARD ADD/DELETE OPTIONS

- Downgrade to 4" pump models
- Upgrade to 6" and 8" pump models
- Upgrade to Silent Partner™ sound attenuation enclosure for residential communities with 67 dBA at 7M / 23'
- Upgrade to skid mounted trailer
- Upgrade/Downgrade to alternate engine options including John Deere, Deutz or Yanmar
- Upgrade fuel tank capacity for longer run-time
- Additional layflat and blackwater hose with fittings
- Additional two float assembly, camlock sets, and bauer sets

QUICK SPECIFICATIONS

Suction / delivery connection	6" 150# ANSI B16.5
Max capacity	2300 GPM
Max solids handling	3.0"
Max head (TDH)	160'
Max operating speed	2000 RPM
Max suction lift	25'
Dimensions	65 x 93 x 132"
Sound levels w/ enclosure	67 dBA at 7M / 23'
Max fuel consumption	At 67 HP; up to 43 hr run time*

Model as defined by the
Florida Sheriff's Association



FSA APPROVED PRIMERITE™ CT006

MWI Pumps Headquarters | 33 NW 2nd Street | Deerfield Beach, FL 33441

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Inquiries: 954-426-1500 | Fax: 954-426-8938 | Email: info@mwipumps.com | mwipumps.com

ENGINEER'S STAFF REPORT
FOR December 14, 2023 MEETING
AGENDA ITEM No.: D1

Action Required: Update

Item Description: Pump Station Improvements

P.A.I.D. Number: D1707.01

Attachments: None

Summary: A Notice to Proceed was issued on August 8, 2023. Shop drawings were reviewed for compliance with design specifications last month. The manufacturing process has commenced for Pumps 1, 2, 4, 5, and 6, with MWI Pumps.

Comments: N/A

Prepared by: BMP Date: 12/07/23

ENGINEER'S STAFF REPORT
FOR December 14, 2023 MEETING
AGENDA ITEM No.: D2

Action Required: Update

Item Description: NW 118th Ave. Drainage Improvements

P.A.I.D. Number: D2308.04-1

Attachments: 8-1/2" x 11" Engineer's Cost Estimate
11" x 17" Construction Plans - Progress Set

Summary: This project was approved by the Board in September for proposed drainage improvements on NW 118th Avenue from the C2 to the C-4 canal.

Some segments of the right-of-way on both sides of the road have not been dedicated. There is not adequate space to propose drainage improvements within these areas.

For the majority of the roadway, the proposed drainage improvements include the following: Removing topsoil and fill, cutting and grading swales, constructing driveway culverts with mitered end sections, installing catch basins and outfall pipes at canals, installing sod, removing fencing, and performing driveway and pavement restorations as necessary.

The construction plans are near completion and will be ready for Board Approval at next month's meeting.

Comments: N/A

Prepared by: BMP Date: 12/7/23

ENGINEER'S COST ESTIMATE

NW 118th AVE SWALE (C2 to C4 Canal)

PROJECT NUMBER D2308.04-1

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
D1-4	Reinforced concrete pipe (30"):	110	L.F.	\$250.00	\$27,500.00
D1-5	Reinforced concrete pipe (36"):	50	L.F.	\$275.00	\$13,750.00
D1-6	Corrugated Metal Pipe (12")	193	L.F.	\$100.00	\$19,300.00
D2-1	Type 'E' Inlet	8	EACH	\$6,500.00	\$52,000.00
D6-1	Mitered End Sections	12	EACH	\$500.00	\$6,000.00
D7-1	Asphalt apron	4	L.S.	\$800.00	\$3,200.00
W1-6	Turbidity barrier:	35	L.F.	\$20.00	\$700.00
P1-1	Pavement Restoration:	2	L.S.	\$15,000.00	\$30,000.00
S1-1	Clearing	1	L.S.	\$6,000.00	\$6,000.00
S1-2	Fencing	22	L.F.	\$50.00	\$1,100.00
S1-3	Sodding	15,115	S.Y.	\$10.50	\$158,707.50
S1-4	Earthwork	7560	C.Y.	\$10.00	\$75,600.00
M1-4	Mobilization & Demobilization	1	L.S.	\$20,000.00	\$20,000.00
				Subtotal:	\$420,857.50
C1-1	Maintenance of Traffic (MOT)	2	%		\$8,417.15
C1-2	Performance Bond	3	%		\$12,625.73
C1-3	Permitting and Certifications	3	%		\$12,625.73
E1-3	Inspections	3	%		\$12,625.73
	Contingencies	10	%		\$42,085.75

TOTAL ESTIMATED COST:**\$509,237.58**

PREPARED BY:

WINNINGHAM AND FRADLEY

ENGINEERS AND SURVEYORS

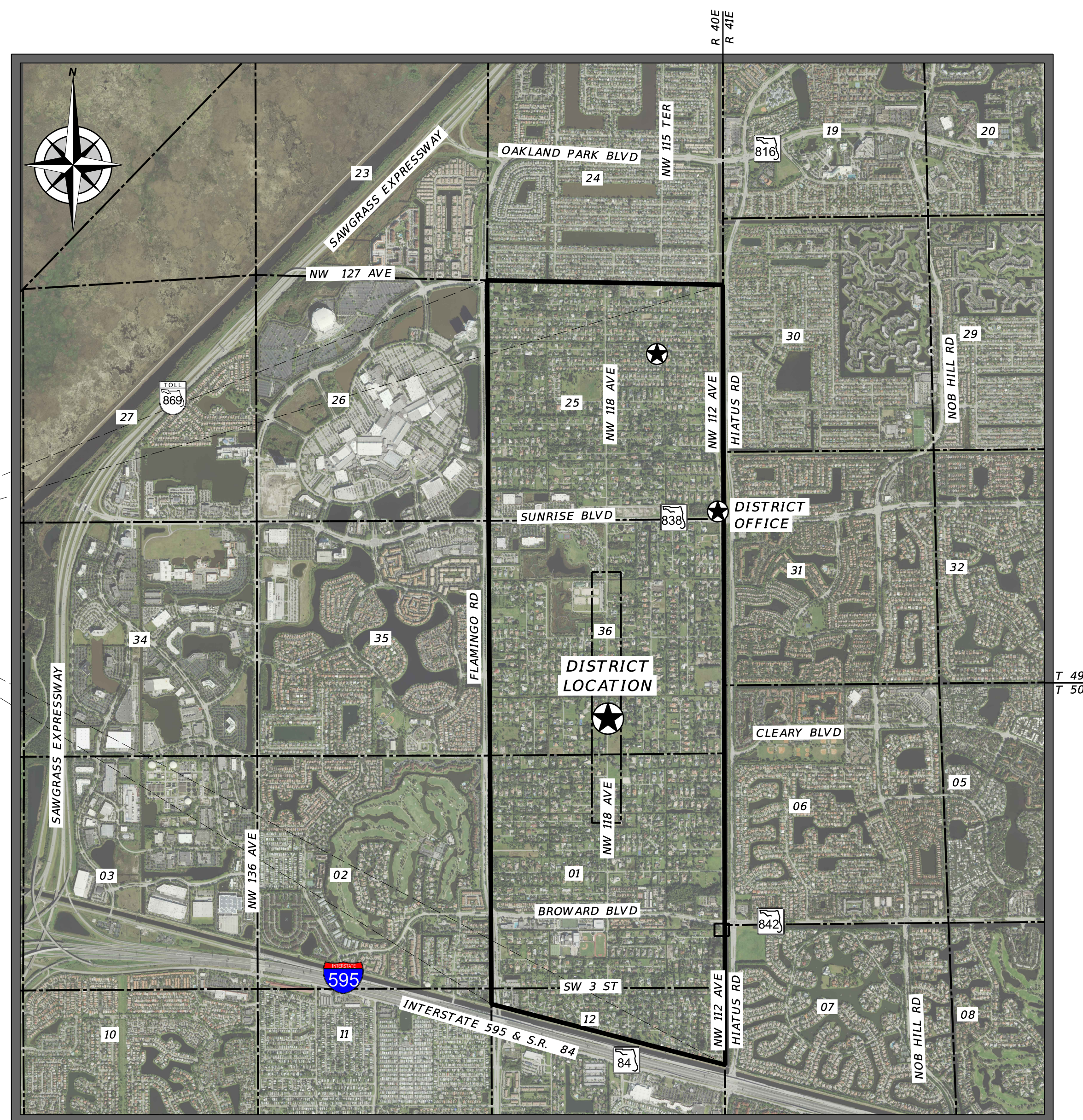
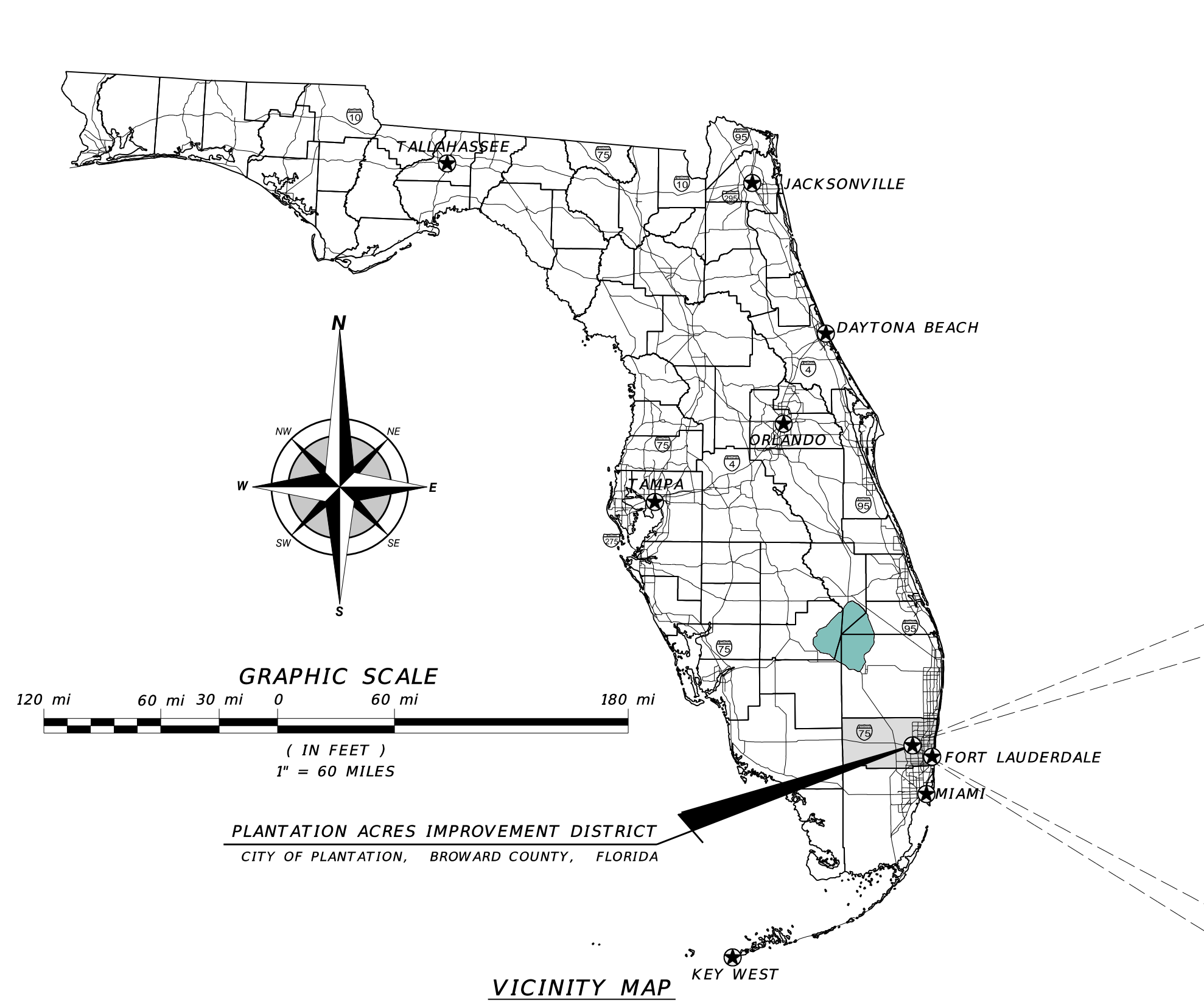
PROJECT NUMBER: D2308.04-1

DECEMBER 7, 2023

NW 118TH AVENUE (C2-C4 CANAL)

PLANTATION ACRES IMPROVEMENT DISTRICT

CITY OF PLANTATION, BROWARD COUNTY, FLORIDA



INDEX TO SHEETS

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DRAINAGE IMPROVEMENT - PLAN	DI2 OF 3
DRAINAGE IMPROVEMENT - PLAN	DI3 OF 3
DRAINAGE IMPROVEMENT - DETAILS	D1 OF 1

PERMITTING AGENCIES	SUBMITTED	APPROVED	PERMIT No.	EXPIRES
CITY OF PLANTATION				
S.F.W.M.D. ERP				
S.F.W.M.D. WATER USE				
N.P.D.E.S.				

NOTE:
IF ALL THE ABOVE INFORMATION HAS NOT BEEN PROVIDED, THIS SET OF DRAWINGS SHOULD NOT BE USED FOR CONSTRUCTION.

DRAINAGE IMPROVEMENTS PLAN

PROGRESS SET



GENERAL PROJECT NOTES

- 1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL GIVE TIMELY NOTIFICATION TO ALL UTILITY COMPANIES WITH FACILITIES IN THE AREA.
- 2. THE LOCATIONS OF EXISTING FACILITIES WERE PLOTTED FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- 3. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO SAFEGUARD ALL EXISTING STRUCTURES, UTILITIES, LANDSCAPING, AND SURVEY MARKERS.
- 4. THE CONTRACTOR AND/OR HIS SUPERINTENDENT SHALL MAINTAIN A MINIMUM OF ONE (1) COPY OF EACH OF THE FOLLOWING PUBLICATIONS ON THE JOB SITE DURING CONSTRUCTION OF THIS PROJECT:
 - A. F.D.O.T. - STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION.
 - B. F.D.O.T. - ROADWAY AND TRAFFIC DESIGN STANDARDS, 2010 EDITION.
 - C. U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES 2009 EDITION.
 - D. BROWARD COUNTY "MINIMUM STANDARDS" APPLICABLE TO PUBLIC RIGHTS OF WAY UNDER BROWARD COUNTY JURISDICTION, OCTOBER 25, 2005 OR LATEST REVISION.

GENERAL SPECIFICATIONS

- 1. APPLICABLE CODES
 - A. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE PLANTATION ACRES IMPROVEMENT DISTRICT, AND ALL OTHER LOCAL, STATE, AND NATIONAL CODES WHERE APPLICABLE.
 - B. ALL PAVEMENT CROSSINGS WITHIN LIMITS OF PUBLIC RIGHTS OF WAY UNDER LOCAL JURISDICTION SHALL CONFORM WITH THE PUBLIC WORKS DEPARTMENT MINIMUM STANDARDS, LATEST EDITION. ALL CONSTRUCTION WITHIN LIMITS OF FLORIDA DEPARTMENT OF TRANSPORTATION SHALL CONFORM WITH F.D.O.T. DESIGN STANDARDS 2008.
 - C. ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER AND IN STRICT COMPLIANCE WITH ALL REQUIREMENTS OF FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, AND ALL STATE AND LOCAL SAFETY AND HEALTH REGULATIONS.
 - D. ALL ELEVATIONS SHOWN ON THE CONSTRUCTION DRAWINGS ARE BASED ON NATIONAL GEODETICAL VERTICAL DATUM OF 1929, (N.G.V.D.), UNLESS OTHERWISE NOTED.
- 2. PRECONSTRUCTION RESPONSIBILITIES
 - A. UPON THE RECEIPT OF THE "NOTICE TO PROCEED," THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND ARRANGE A PRECONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, UTILITY OWNERS, THE OWNER AND THE ENGINEER OF RECORD.
 - B. THE CONTRACTOR SHALL OBTAIN AN U.N.C.L.E. CERTIFICATION NUMBER AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION. PRIOR TO ANY CONSTRUCTION ACTIVITY, CALL 811.
 - C. ALL UTILITY EASEMENTS AND RIGHT-OF-WAY TO BE SECURED PRIOR TO CONSTRUCTION. (IF REQUIRED)
 - D. ALL APPLICABLE CONSTRUCTION PERMITS SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO START OF CONSTRUCTION.
- 3. INSPECTIONS
 - A. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AND OTHER GOVERNMENTAL AGENCIES HAVING JURISDICTION AT LEAST 24 HOURS PRIOR TO THE BEGINNING CONSTRUCTION AND PRIOR TO THE FOLLOWING ITEMS, WHERE APPLICABLE:
 - 1. CLEARING AND FILLING
 - 2. STORM DRAINAGE SYSTEM
 - 3. ROADWAY RESTORATION
- 4. SHOP DRAWINGS
 - A. PRIOR TO THEIR CONSTRUCTION OR INSTALLATION, SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD AND THE CITY OF PLANTATION FOR THE FOLLOWING ITEMS: SANITARY MANHOLES, CATCH BASINS, FIRE HYDRANTS, VALVE AND ALL REQUIRED ACCESSORIES.
- 5. TEMPORARY FACILITIES
 - A. TEMPORARY FACILITIES:
 - 1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES, AND ELECTRICITY FOR NO ADDITIONAL COST TO THE OWNER FOR THEIR EMPLOYEES.
 - B. TRAFFIC REGULATION
 - 1. MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH M.U.T.C.D.
 - 2. ALL OPEN TRENCHES AND EXCAVATIONS 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 EXCAVATIONS NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS WITHOUT EXPRESS PERMISSION OF THE CITY OF PLANTATION.
 - 4. IF ROAD CLOSURES ARE REQUIRED, THE CONTRACTOR SHALL CONTACT THE LOCAL POLICE DEPARTMENT OFFICE TO COORDINATE THE APPROPRIATE ACTION.
- C. MATERIAL AND EQUIPMENT STORAGE AREAS
- 1. THE CONTRACTOR SHALL SELECT THE SUITABLE LOCATION OF TEMPORARY STORAGE SITES.
 - 2. PROOF OF PERMISSION FOR THE USE OF PRIVATE PROPERTY SHALL BE PROVIDED BY THE CONTRACTOR PRIOR TO THE START OF THE PROJECT.
6. PROJECT CLOSEOUT
- A. CLEANING UP:
 - 1. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER, AND UPON FINAL CLEAN-UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE SWEEP BROOM CLEAN.
 - 2. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS WORK, EQUIPMENT, OR EMPLOYEES, TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS. TO THE END, THE CONTRACTOR SHALL DO AS REQUIRED, ALL NECESSARY HIGHWAY, 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 HAVE 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 THE PROGRESS OF THE WORK, AND THE AREA KEPT IN CLEAN AND NEAT CONDITION.
 - B. ALL PROPERTY MONUMENTS OR PERMANENT REFERENCES, REMOVED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED BY A STATE OF FLORIDA REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
 - C. ALL UNPAVED SURFACES SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION.
 - D. PROJECT RECORD DOCUMENTS
 - 1. DURING THE DAILY PROGRESS OF THE JOB, THE CONTRACTOR SHALL RECORD ON HIS SET OF CONSTRUCTION DRAWINGS THE EXACT LOCATION, LENGTH AND ELEVATION OF ANY FACILITY NOT BUILT EXACTLY ACCORDING TO PLANS. ELEVATION OF ANY FACILITY NOT BUILT EXACTLY ACCORDING TO PLANS.
 - 2. UPON COMPLETION OF CONSTRUCTION, AND PRIOR TO FINAL PAYMENT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD ONE COMPLETE SET OF ALL "AS-BUILT" CONTRACT DRAWINGS. THESE DRAWINGS SHALL BE MARKED TO SHOW "AS-BUILT" CONSTRUCTION CHANGES AND DIMENSIONS, LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS.
 - 3. ALL "AS-BUILT" INFORMATION ON PLANS SHALL BE CERTIFIED BY A PROFESSIONAL SURVEYOR AND MAPPER REGISTERED IN THE STATE OF FLORIDA.

- 7. EARTHWORK AND COMPACTION
 - A. ALL ORGANIC AND OTHER UNSUITABLE MATERIAL SHALL BE REMOVED UNDER THESE AREAS TO BE PAVED AND FOR THE FULL WIDTH OF THE RIGHT-OF-WAY.
 - B. SUITABLE BACKFILL SHALL BE USED AND COMPACTED AS DIRECTED BY THE ENGINEER OF RECORD. ALL TRENCHES SHALL BE BACKFILLED AND COMPACTED TO 98% STANDARD PROCTOR ON THIS PROJECT. TESTING SHALL BE VERIFIED BY TESTING COMPANY.
- 8. PAVING
 - A. GENERAL:
 - 1. ALL UNDERGROUND UTILITIES SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF LIMEROCK BASE.
 - 2. ALL EXISTING PAVEMENT, CUT OR DAMAGED BY CONSTRUCTION SHALL BE PROPERLY RESTORED AT THE CONTRACTOR'S EXPENSE.
 - 3. FOR ANY PROPOSED CONNECTIONS, THE EXISTING EDGE OF PAVEMENT SHALL BE SAW CUT.
 - B. MATERIAL:
 - 1. BASE COURSE SHALL BE CRUSHED LIMEROCK MIAMI COLITE WITH A MINIMUM OF 70% CARBONATES OF CALCIUM AND MAGNESIUM.
 - 2. ASPHALT SURFACES SHALL BE S-3 ASPHALTIC CONCRETE, UNLESS OTHERWISE SPECIFIED ON THE PLANS.

- C. INSTALLATION:
 - 1. SUBGRADE FOR ROADWAY SHALL BE COMPACTED TO A MINIMUM OF 98% OF THE MAXIMUM DENSITY (AASHTO T-180). SHALL BE MIN. 12" THICKNESS, MIN. L.B.R. 40.
 - 2. BASE COURSE MATERIAL FOR PAVED AREAS SHALL HAVE A MINIMUM THICKNESS OF 8" PLACED ON A SINGLE LAYER FOR STREETS. (6 INCHES FOR DRIVEWAYS AND DESIGNATED PARKING AREAS).
 - 3. BASE COURSE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
 - 4. INSTALLATION OF THE WEARING SURFACE SHALL CONFORM WITH THE REQUIREMENTS OF THE D.O.T. STANDARD SPECIFICATIONS FOR ASPHALTIC CONCRETE.
- D. TESTING:
 - 1. THE FINISHED SURFACE OF THE BASE COURSE AND THAT OF THE WEARING SURFACE SHALL NOT VARY MORE THAN 1/4" FROM THE TEMPLATE. ANY IRREGULARITIES EXCEEDING THIS LIMIT SHALL BE CORRECTED.
 - 2. DENSITY TESTS SHALL BE TAKEN BY AN INDEPENDENT TESTING LABORATORY, CERTIFIED BY THE STATE OF FLORIDA, WHERE DIRECTED BY THE ENGINEER.
 - 3. ALL TESTING COSTS (PAVING) SHALL BE PAID FOR BY THE OWNER EXCEPT THOSE TESTS FAILING TO MEET THE SPECIFIED REQUIREMENTS WHICH ARE TO BE PAID BY THE CONTRACTOR.
- E. DRAINAGE SYSTEM:
 - 1. ALL DRAINAGE PIPE SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO A.S.T.M. C76-70 OR A.S.T.M. C-1450.
 - 2. THE DRAINAGE SYSTEM HAS BEEN DESIGNED USING REINFORCED CONCRETE PIPE (R.C.P.). NO ALTERNATIVES WILL BE USED.
 - 3. THE CONTRACTOR SHALL NOTIFY THE PLANTATION ACRES IMPROVEMENT DISTRICT 24 HOURS PRIOR TO CONSTRUCTION AT (954) 474-3092.
- 9. PAVEMENT MARKINGS
 - A. PROVIDE AND INSTALL ALL NECESSARY PAVEMENT MARKINGS AND SIGNS IN ACCORDANCE WITH THE "MANUAL OF OPERATIONS STANDARDS," FLORIDA DEPARTMENT OF TRANSPORTATION, AND THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (M.U.T.C.D.), UNITED STATES DEPARTMENT OF TRANSPORTATION. ALL TRAFFIC SIGNS SHALL BE FULLY REFLECTORIZED.
 - B. ALL PAVEMENT MARKINGS SHALL BE F.D.O.T. THERMOPLASTIC WITH RAISED REFLECTIVE MARKERS. PLEASE REFER TO PLANS.
 - C. THE PAVEMENT MARKINGS (PAINT) SHALL BE APPLIED TO THE FIRST INCH OF ASPHALT WITHIN ONE CALENDAR DAYS AFTER THE APPLICATION OF THE ASPHALT.
 - D. ALL SIGNS SHALL HAVE HIGH INTENSITY SHEETING.

MAINTENANCE OF TRAFFIC
REFER TO F.D.O.T. INDEX 600-670 (TRAFFIC CONTROL THROUGH WORK ZONES) FOR MAINTENANCE OF TRAFFIC.

TEMPORARY POLLUTION PREVENTION
REFER TO F.D.O.T. INDEX 102-103 FOR TEMPORARY POLLUTION PREVENTION SYSTEM DETAILS.

NO.	REVISIONS	DATE	NO.	REVISIONS	DATE

DESIGNED: BMP	DATE: 11/2023
DRAWN: AMF	DATE: 11/2023
CHECKED: BMP	DATE: 11/2023



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NW 118th AVENUE (C2 - C4 CANAL)
PLANTATION ACRES IMPROVEMENT DISTRICT

GENERAL NOTES AND SPECIFICATIONS

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CONTRACTOR'S REQUIREMENTS

GENERAL

THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN IN ADDITION TO THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS. DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULANT TO RETENTION SYSTEM PRIOR TO PLACING THE SYSTEM INTO OPERATION.

SEQUENCE OF MAJOR ACTIVITIES

- THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:
1. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
2. INSTALL SILT FENCES AND HAY BALES AS REQUIRED.
3. CLEAR AND GRUB FOR DIVERSION SWALE/DIKES AND SEDIMENT BASIN.
4. CONSTRUCT SEDIMENTATION BASIN.
5. CONTINUE CLEARING AND GRUBBING.
6. STOCK PILE TOP SOIL IF REQUIRED.
7. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED.
8. STABILIZE DENIED AREAS AND STOCKPILES AS SOON AS PRACTICABLE.
9. INSTALL UTILITIES: STORM SEWER, CURBS & GUTTERS
10. APPLY BASE TO PROJECT.
11. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD AND PLANTING.
12. REMOVE ACCUMULATED SEDIMENT FROM BASINS.
14. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALE/DIKES AND RESEED/SOD AS REQUIRED.

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND HAY BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND THE EARTH DIKES/SWALES WILL BE REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE EROSION & TURBIDITY CONTROL PLAN.

CONTROLS

IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SPECIFIED IN THE EROSION AND TURBIDITY CONTROL NOTES. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS AS SPECIFIED IN THE EROSION AND TURBIDITY CONTROL NOTES AND ADD ADDITIONAL CONTROL MEASURES AS REQUIRED TO ENSURE THE SITE MEETS ALL FEDERAL, STATE, AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE CONTRACTOR AS REQUIRED BY THE EROSION AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.

EROSION AND SEDIMENT CONTROL

- 1. INSTALL TURBIDITY SCREENS IN LAKE AS INDICATED. PER SF.MKD. CRITERIA.
2. INSTALL ADDITIONAL SILT FENCE/WINDSCREEN AS NEEDED TO REDUCE WINDBLOWN EROSION.
3. PROVIDE MINIMUM 6" DEEP SWALE AROUND SITE PERIMETER TO CONTAIN SOIL EROSION ON-SITE, REGRADE SWALE DURING CONSTRUCTION AS REQUIRED TO MAINTAIN 6" SWALE.
4. CONSTRUCT A TEMPORARY MINIMUM 6" DEEP REVERSE BERM ALONG THE TOP OF LAKE BANK TO CONTAIN SURFACE WATER RUNOFF FROM ERODING THE LAKE BANK.
5. PROVIDE TEMPORARY CONSTRUCTION ACCESS ROAD WITH COMPACTED LIMEROCK AS SOON AS PRACTICAL.
6. PROVIDE FILTER FABRIC ON ALL DRAINAGE CATCH BASIN INLETS UNTIL FINAL LANDSCAPING IS IN PLACE.
7. TURBIDITY SCREENS SHALL NOT BE REMOVED UNTIL ALL AREAS AROUND INLETS HAVE BEEN GRADED & SODDED AND THE LAKE HAS MET STATE TURBIDITY STANDARDS
8. CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES WEEKLY AND AFTER ANY INTENSE RAINFALL OF GREATER THAN 0.5" AND REPAIR AS NECESSARY.

EROSION AND SEDIMENT CONTROL STABILIZATION PRACTICES

- 1. HAY BALE BARRIERS: HAY BALE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:
A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 3:3 PERCENT.
B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.
C. WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS.
D. EVERY EFFORT SHOULD BE MADE TO LIMIT THE USE OF STRAW BALE.
E. BARRIERS IN LIVE STREAMS OR IN SWALES WHERE THERE IS THE POSSIBILITY OF A WASHOUT, IF NECESSARY, MEASURES SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO INSURE AGAINST WASHOUT.
2. FILTER FABRIC BARRIER/FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:
A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 3:3 PERCENT.
B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.
3. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE.
4. LEVEL SPREADER/A LEVEL SPREADER MAY BE USED WHERE SEDIMENT-FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED AWAY FROM THE GRADED AREAS ONTO UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL UP IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE.
5. STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY AT THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.
6. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 10 ACRES. THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREA WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.
7. INLET PROTECTION: INLETS AND CATCH BASINS WHICH DISCHARGE DIRECTLY OFF-SITE SHALL BE PROTECTED FROM SEDIMENT-LOADED STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.
8. TEMPORARY SEEDING AREAS: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 30 DAYS SHALL BE SEEDDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING.
9. TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 8 ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH.
10. TEMPORARY GRASSING: THE SEEDED OR SEEDED AND MULCHED AREAS SHALL BE ROLLED AND WATERED OR HYDROMULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. TEMPORARY GRASSING IN THE CONTRACT SPECIFICATIONS.
11. TEMPORARY REGRASSING: IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 15 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE GOOD VEGETATIVE COVER.
12. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.
13. PERMANENT EROSION CONTROL: THE CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.
14. PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL AS A MINIMUM BE SEEDDED WITH THE SEED WHICH MUST PROVIDE BOTH LONG-TERM VEGETATION AND RAPID GROWTH. SEASONAL SEEDING: SLOPES STEEPER THAN 4:3 SHALL BE SEEDDED AND MULCHED OR VEGGATED.

STRUCTURAL PRACTICES

- 1. TEMPORARY DIVERSION DIKES: TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT-TRAPPING FACILITY.
2. TEMPORARY SEDIMENT TRAP: A SEDIMENT TRAP SHALL BE INSTALLED IN AN DRAINAGE WAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA. THE FOLLOWING SEDIMENT TRAPS MAY BE CONSTRUCTED EITHER INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION DIKE.
A. BLOCK & GRAVEL SEDIMENT FILTER: THIS PROTECTION IS APPLICABLE WHERE HEAVY FLOWS AND/OR WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE.
B. GRAVEL SEDIMENT TRAP: THIS PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCORPORATION OR DAMAGE TO ADJACENT STRUCTURE & UNPROTECTED AREAS.
C. DROP INLET SEDIMENT TRAP: THIS PROTECTION IS APPLICABLE WHERE THE INLET DRAWS A RELATIVELY FLAT AREA (5% OR LESS) AND WHERE SHEET OR OVERLAND FLOW (0.5 CFS) ARE TYPICAL. THIS METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH AS IN STREET OR HIGHWAY MEDIANS.
3. OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE FLOW COULD CAUSE EROSION AND SEDIMENT PROBLEM TO THE RECEIVING WATER BODY. SILT FENCES AND HAY BALES ARE TO BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE DISCHARGING STRUCTURE AS SHOWN ON THE OUTLET PROTECTION DETAIL.
4. SEDIMENT BASIN: WILL BE CONSTRUCTED AT THE COMMON DRAINAGE LOCATIONS THAT SERVE AN AREA WITH 10 OR MORE DISTURBED ACRES AT ONE TIME. THE PROPOSED STORM WATER PONDS OR TEMPORARY PONDS WILL BE CONSTRUCTED FOR USE AS SEDIMENT BASINS. THESE SEDIMENT BASIN MUST PROVIDE A MINIMUM OF 3600 CUBIC FEET OF STORAGE PER ACRE DRAINAGE UNTIL FINAL STABILIZATION OF THE SITE. THE 3600 CUBIC FEET OF STORAGE AREA PER DRAINAGE DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS ON-SITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. A TEMPORARY SEDIMENT BASIN CONSTRUCTED MUST BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL FILL. ALL SEDIMENT COLLECTED IN PERMANENT OR TEMPORARY SEDIMENT TRAPS MUST BE REMOVED UPON FINAL STABILIZATION.

OTHER CONTROLS

WASTE DISPOSAL

WASTE MATERIALS

ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT. THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

HAZARDOUS WASTE

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURE, SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT. THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

SANITARY WASTE

ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLS. THE WASTE WILL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER SYSTEMS.

OFFSITE VEHICLE TRACKING

A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEP DAILY TO REMOVE ANY EXCESS MUD/DIRT OR ROCK TRACKED FROM THE SITE. DIRT TRUCKS HAULING MATERIAL FROM THE SITE WILL BE COVERED WITH A TARP/PAULI. (SEE DETAILS THIS SHEET)

INVENTORY FOR POLLUTION PREVENTION PLAN

THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ON-SITE DURING CONSTRUCTION:

- CONCRETE
ASPHALT
TAR
DETERGENTS
FERTILIZER
WOOD
PETROLEUM BASED PRODUCTS
MASONRY BLOCKS
CLEANING SOLVENTS
PAINTS
ROOFING MATERIALS
METAL STUDS

SPILL PREVENTION

MATERIAL MANAGEMENT PRACTICES

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

GOOD HOUSEKEEPING

THE FOLLOWING HOUSEKEEPING PRACTICES WILL BE FOLLOWED ON-SITE DURING THE CONSTRUCTION PERIOD.

AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.

ALL MATERIALS STORED ON-SITE WILL BE IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND/OR POSSIBLE UNDER A ROOF OR OTHER ENCLOSURE.

PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.

SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.

WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.

MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.

THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ON-SITE RECEIVE PROPER USE AND DISPOSAL.

HAZARDOUS PRODUCTS

THESE PRACTICES ARE USE 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 IF THEY CONTAIN IMPORTANT PRODUCT INFORMATION.

IF SURPLUS PRODUCT MUST BE DISPOSED OF MANUFACTURER'S OR LOCAL AGENCY RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

PRODUCT SPECIFIC PRACTICES

THE FOLLOWING PRODUCT SPECIFIC WILL BE FOLLOWED ON-SITE:

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 USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. APPLIED FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS

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 MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS. CONCRETE TRUCKS

CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH 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.

MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE 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 BE INCLUDED BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (1/4 KITTY LITTER OR EQUAL), 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.

SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY REGARDLESS OF THE SIZE OF THE SPILL.

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.

THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ON-SITE.

MAINTENANCE/INSPECTION PROCEDURES

EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES

THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.

NO MORE THAN 10 ACRES OF THE SITE WILL BE DENIVED AT ONE TIME WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.

ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOMEONE APPROVED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND FOLLOWING ANY STORM EVENT OF 0.25 INCHES OR GREATER.

ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.

BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.

SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT FENCE POSTS ARE FIRMLY IN THE GROUND.

THE SEDIMENT BASIN WILL BE INSPECTED FOR THE DEPTH OF SEDIMENT AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB, WHICHEVER COMES FIRST. OVERSTOCK DIKES/SWALES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.

TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.

A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. A REPORT SHALL BE COMPLETED BY HIS/HER INSPECTOR OR ENGINEER OF RECORD.

THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE OR LOCAL AGENCY APPROVING SEDIMENT AND EROSION PLANS, OR STORM WATER MANAGEMENT PLANS.

THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION IS SUBMITTED. THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE.

THE SITE SUPERINTENDENT WILL SELECT UP TO THREE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTION, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.

PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. THEY WILL BE TRAINED IN ALL INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ON-SITE IN GOOD WORKING ORDER.

NON-STORM WATER DISCHARGES

IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:

WATER FROM WATER LINE FLUSHING

PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED).

UNCONTAMINATED GROUND WATER (FROM DEWATERING EXCAVATION).

CONTRACTOR'S CERTIFICATION

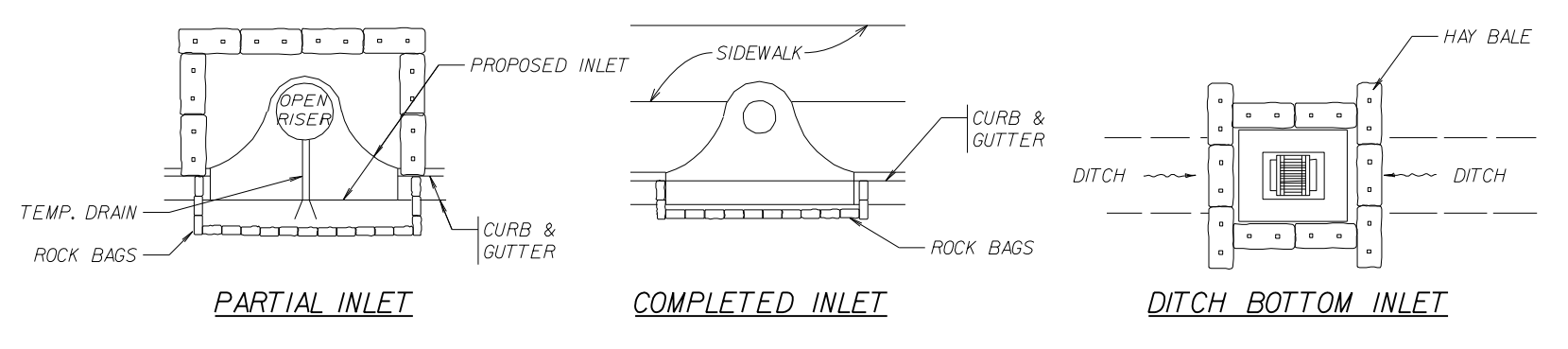
I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (GNDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

NOTES FOR SILT FENCES

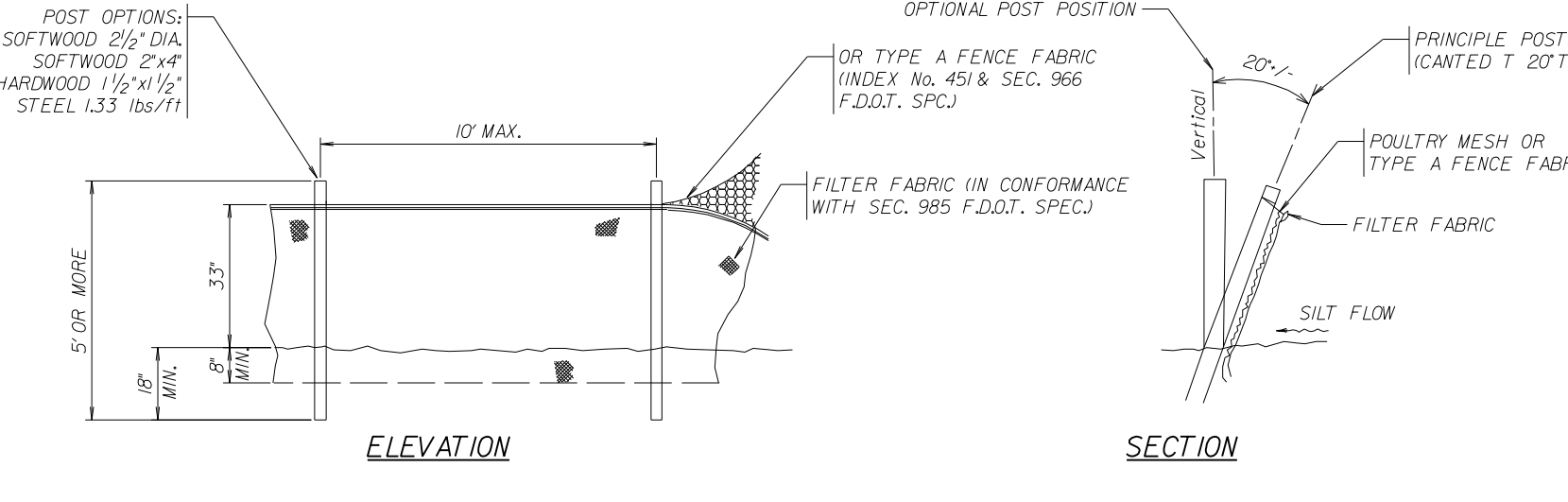
- 1. TYPE III SILT FENCE TO BE USED AT MOST LOCATIONS, WHERE USED IN DITCHES, THE SPACING FOR TYPE III SILT FENCE SHALL BE IN ACCORDANCE WITH CHART 1.
2. TYPE IV SILT FENCE TO BE USED WHERE LARGE SEDIMENT LOADS ARE ANTICIPATED. SUGGESTED USE IS WHERE FULL SLOPE IS 1:3 OR STEEPER AND LENGTH OF SLOPE EXCEEDS 25 FEET. AVOID USE WHERE THE DETAINED WATER MAY BACK INTO TRAVEL LANES OR OFF THE RIGHT OF WAY.
3. DO NOT CONSTRUCT SILT FENCES ACROSS PERMANENT FLOWING WATER COURSES. SILT FENCES ARE TO BE AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.
4. WHERE USED AS SLOPE PROTECTION, SILT FENCE IS TO BE CONSTRUCTED ON OR LONGITUDINAL GRADE TO AVOID CHANNELIZING RUNOFF ALONG THE LENGTH OF THE FENCE.
5. SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE, (U.F.).

NOTES FOR BALED HAY OR STRAW BARRIERS

- 1. TYPE I AND II BARRIERS SHOULD BE SPACED IN ACCORDANCE WITH CHART 1.
2. HAY BALES SHALL BE TRENCHED 3" TO 4" AND ANCHORED WITH 2" X 2" OR 1" X 1" X 4" WOOD STAKES. STAKES OF OTHER MATERIAL OR SHAPE PROVIDING EQUIVALENT STRENGTH MAY BE USED IF APPROVED BY THE ENGINEER. STAKES OTHER THAN WOOD SHALL BE REMOVED UPON COMPLETION OF THE PROJECT.
3. RAILS AND POSTS SHALL BE 2" X 4" WOOD, OTHER MATERIALS PROVIDING EQUIVALENT STRENGTH MAY BE USED IF APPROVED BY ENGINEER.
4. ADJACENT BALES SHALL BE BUTTED FIRMLY TOGETHER. UNAVOIDABLE GAPS SHALL BE PLUGGED WITH HAY OR STRAW TO PREVENT SILT FROM PASSING.
5. WHERE USED IN CONJUNCTION WITH SILT FENCE, HAY BALES SHALL BE PLACED ON THE UPSTREAM SIDE OF THE FENCE.
6. BALES TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR BALED HAY OR STRAW, E.A. THE UNIT PRICE SHALL INCLUDE THE COST OF FILTER FABRIC FOR TYPE I AND II BARRIERS. SAND BAGS SHALL BE PAID FOR UNDER THE UNIT PRICE FOR SANDBAGGING. CY. ROCK BAGS TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR ROCK BAGS, E.A.

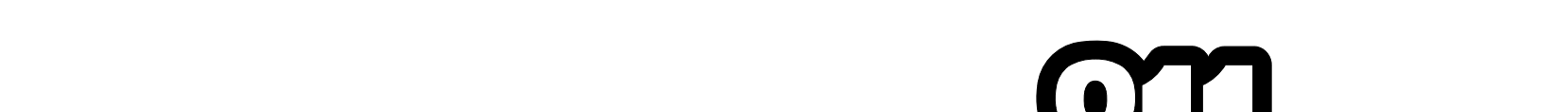
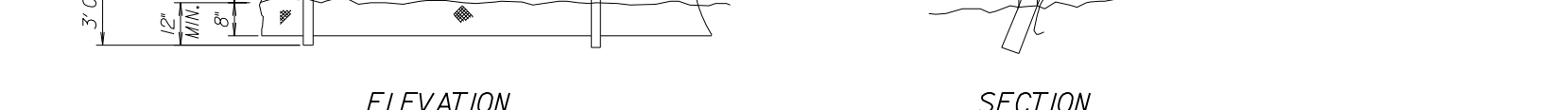
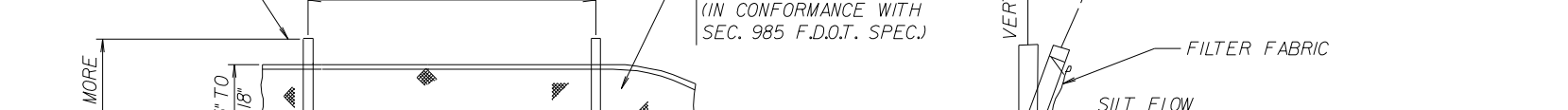


PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

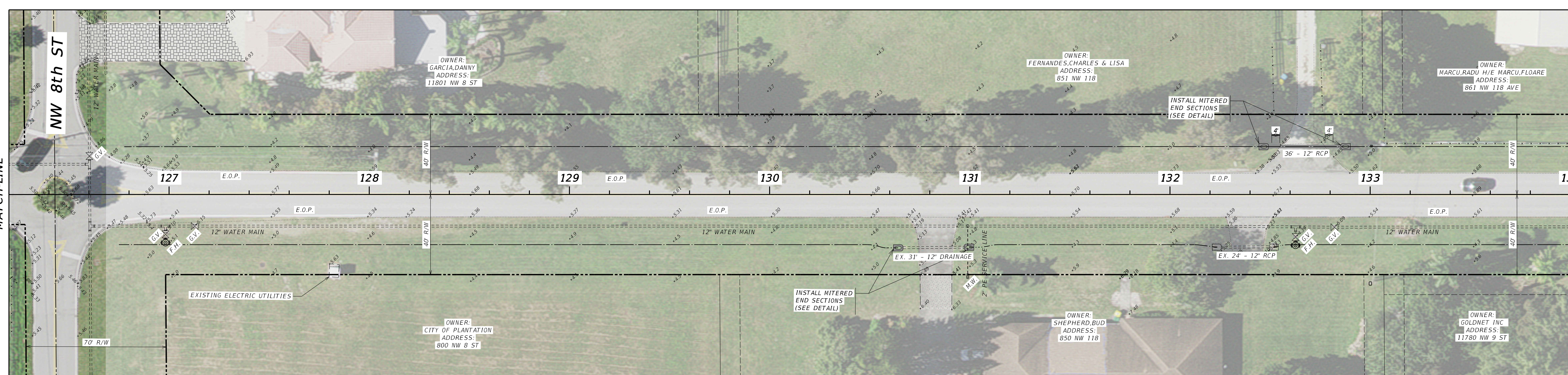
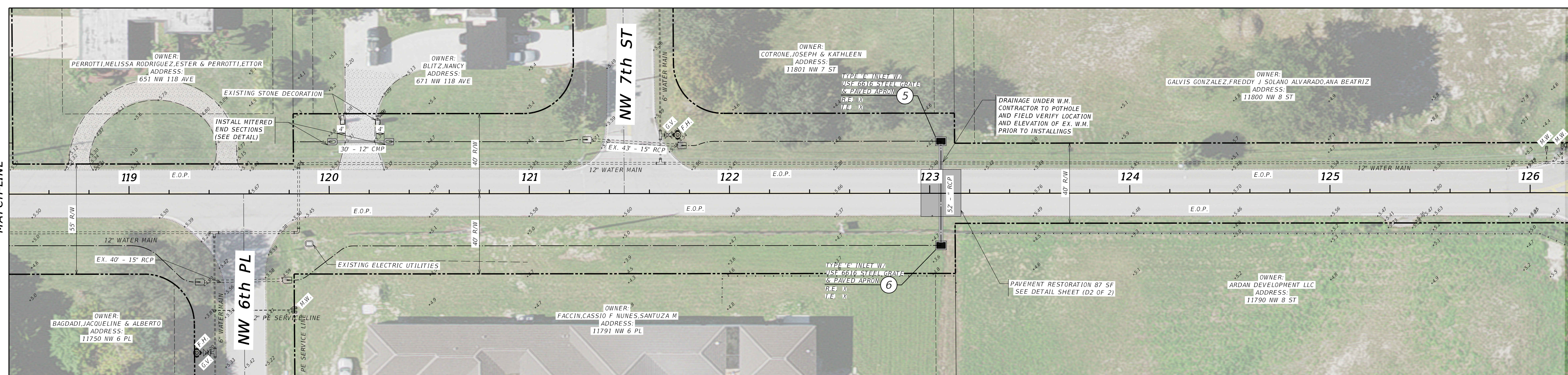
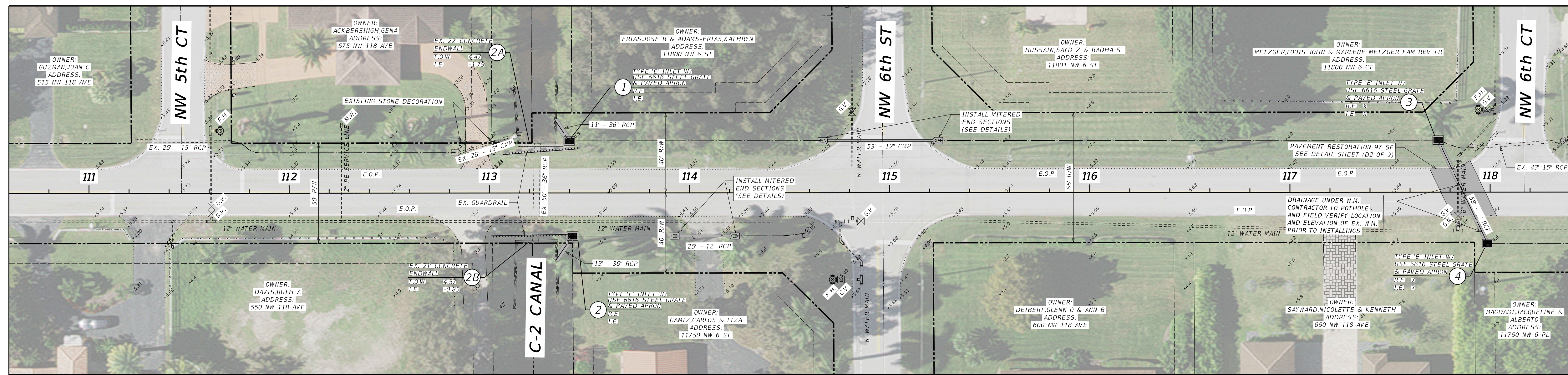


TYPE IV SILT FENCE

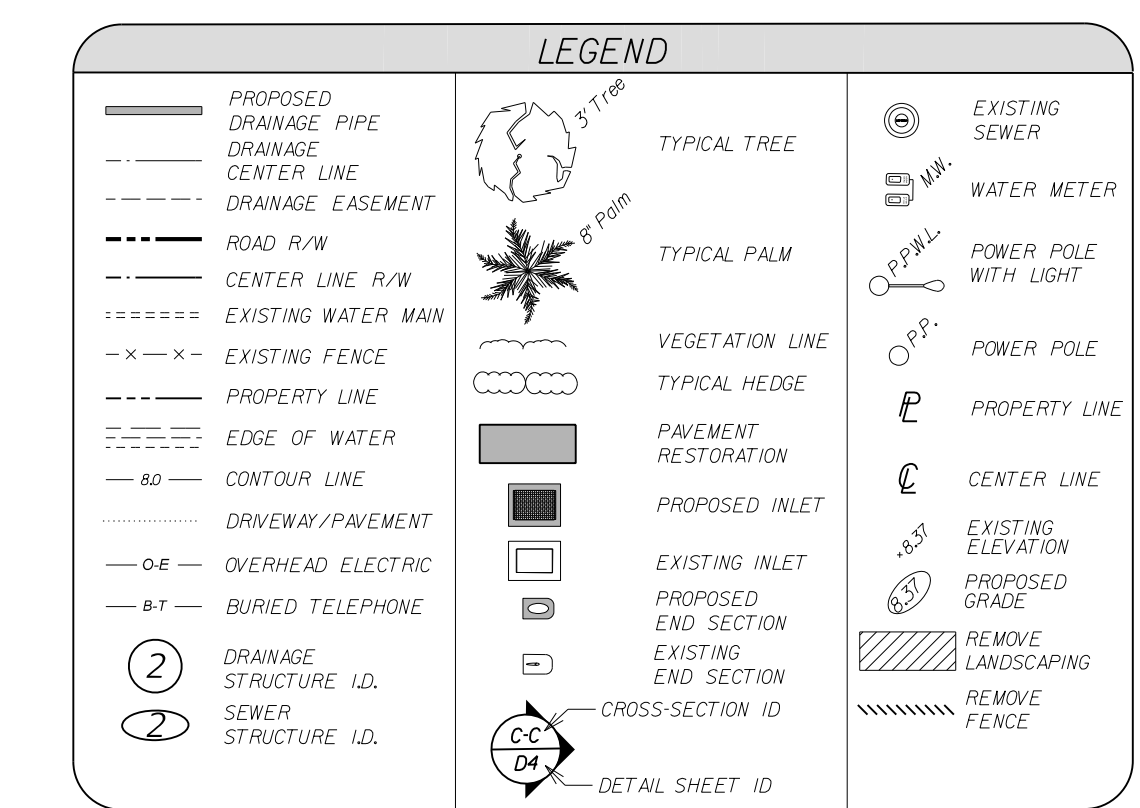
TYPE III SILT FENCE



Know what's below. Call before you dig.



- NOTES:**
- CONTRACTOR TO NOTIFY UTILITY COMPANIES PRIOR TO DRAINAGE SYSTEM INSTALLATIONS. UNDERGROUND UTILITIES TO INCLUDE FLORIDA POWER AND LIGHT, BELLSOUTH (A/S/T), COMCAST CABLE AND PLANTATION UTILITIES.
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ABBREVIATIONS

B.T. BURIED TELEPHONE	P.A.C.D. PLANTATION ACRES
C.L. CENTER LINE	P.D. PLANTATION DISTRICT
C.S. CHAIN BOOK	P.P. PLANT BOOK
D.E. DRAINAGE EASEMENT	P.P. POWER POLE
D.W.E. DESIGN WATER ELEVATION	P.P.W. POWER POLE WITH LIGHT
E.O.P. EDGE OF PAVEMENT	PROP. PROPOSED
E.O.W. EDGE OF WATER	R.C.P. REINFORCED CONCRETE PIPE
FOOT FLORIDA DEPARTMENT OF TRANSPORTATION	R.E. RIM ELEVATION
I.E. INVERT ELEVATION	R/W. RIGHT-OF-WAY
M.W. WATER METER	S.H. SPRINKLER HEAD
N.A.V.D. NORTH AMERICAN VERTICAL DATUM	T.O.W. TOP OF WALL
O.E. OVERHEAD ELECTRIC	TYP. TYPICAL
O.R.B. OFFICIAL RECORDS BOOK	U.E. UTILITY EASEMENT
	USF. U.S. FOUNDRY
	W.M. WATER MAIN



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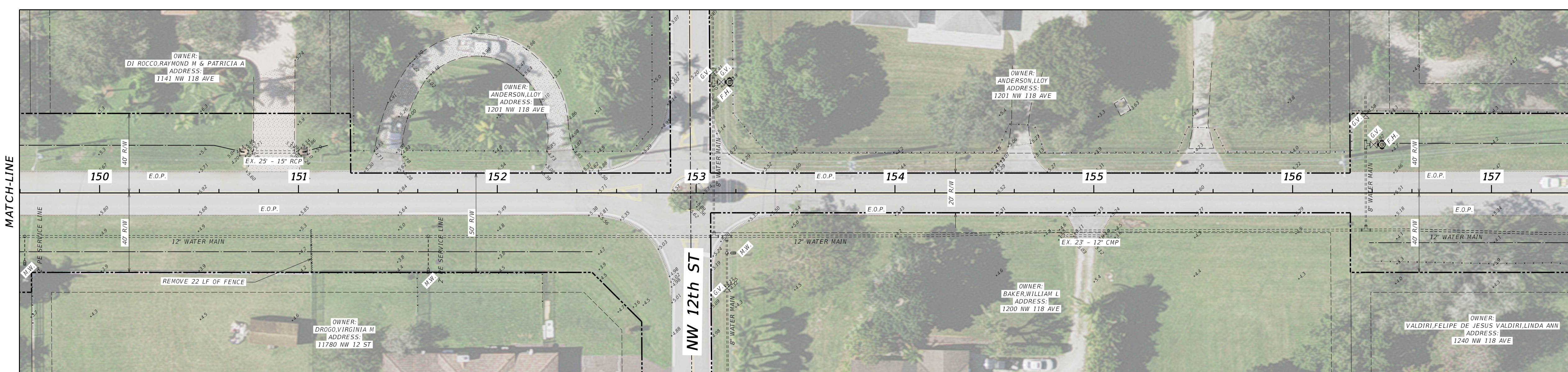
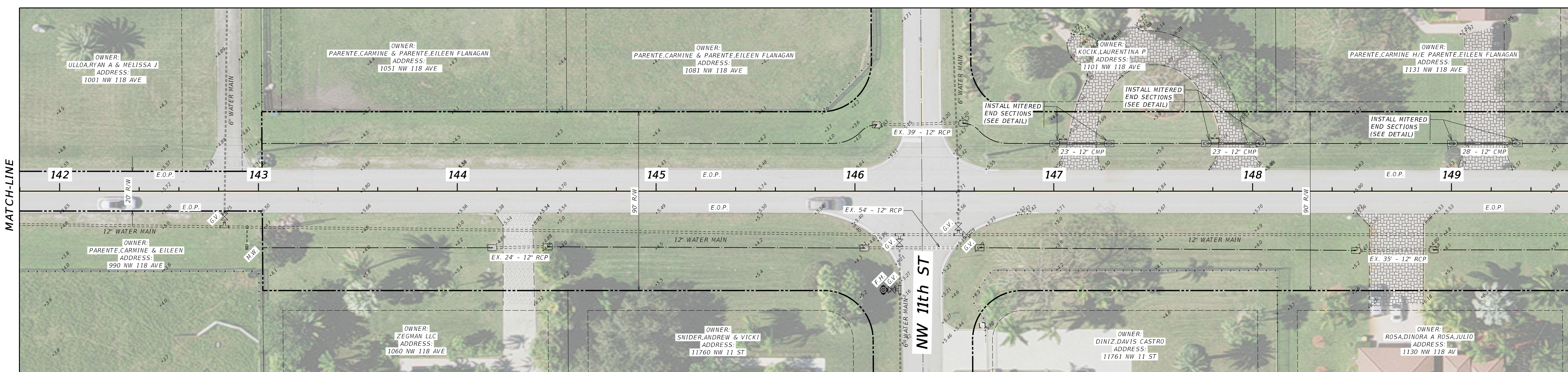
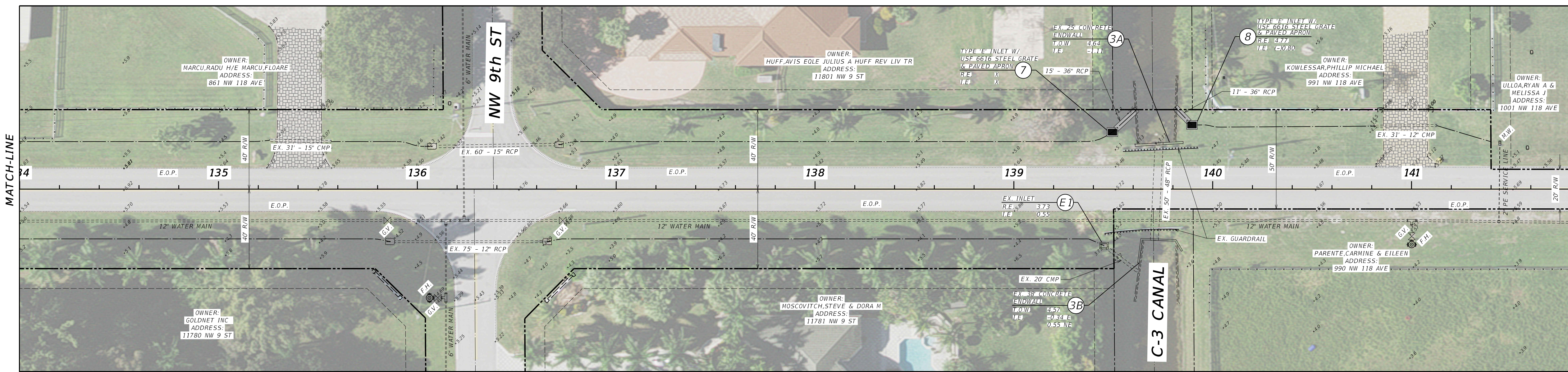
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NW 118th AVENUE (C2 - C4 CANAL)
 PLANTATION ACRES IMPROVEMENT DISTRICT

DRAINAGE IMPROVEMENTS
PLAN

PUBLISHED: 12/17/2023, 3:58:08 PM
 PROJECT NUMBER: D2308.04-1
 SHEET: 51 OF 3



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LEGEND	
PROPOSED DRAINAGE PIPE	TYPICAL TREE
DRAINAGE CENTER LINE	TYPICAL PALM
DRAINAGE EASEMENT	VEGETATION LINE
ROAD R/W	TYPICAL HEDGE
CENTER LINE R/W	PAVEMENT RESTORATION
EXISTING WATER MAIN	PROPOSED INLET
EXISTING FENCE	EXISTING INLET
PROPERTY LINE	PROPOSED END SECTION
EDGE OF WATER	EXISTING END SECTION
80	CONTOUR LINE
DRIVEWAY/PAVEMENT	DRIVEWAY/PAVEMENT
OE	OVERHEAD ELECTRIC
B	BURIED TELEPHONE
2	DRAINAGE STRUCTURE ID.
7	SEWER STRUCTURE ID.
CC	CROSS-SECTION ID.
04	DETAIL SHEET ID.
EXISTING SEWER	WATER METER
MW	POWER POLE WITH LIGHT
PPAL	POWER POLE
PP	PROPERTY LINE
CL	CENTER LINE
EL	EXISTING ELEVATION
PS	PROPOSED GRADE
RL	REMOVE LANDSCAPING
RF	REMOVE FENCE

ABBREVIATIONS	
B.T.	BURIED TELEPHONE
CL	CENTER LINE
CL	CHAIN LINE
DE	DRAINAGE EASEMENT
DWE	DESIGN WATER ELEVATION
E.O.P.	EDGE OF PAVEMENT
E.O.W.	EDGE OF WATER
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION
I.E.	INVERT ELEVATION
MW	WATER METER
N.A.V.D.	NORTH AMERICAN VERTICAL DATUM
O.E.	OVERHEAD ELECTRIC
O.R.B.	OFFICIAL RECORDS BOOK
P.A.I.D.	PLANTATION ACRES IMPROVEMENT DISTRICT
P.B.	PLAT BOOK
P.P.	POWER POLE
PP/WL	POWER POLE WITH LIGHT
PROP.	PROPOSED
R.C.P.	REINFORCED CONCRETE PIPE
R.E.	RIM ELEVATION
R/W	RIGHT-OF-WAY
S.H.	SPRINKLER HEAD
T.O.W.	TOP OF WALL
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U.E.	UTILITY EASEMENT
USF	U.S. FOUNDRY
W.M.	WATER MAIN



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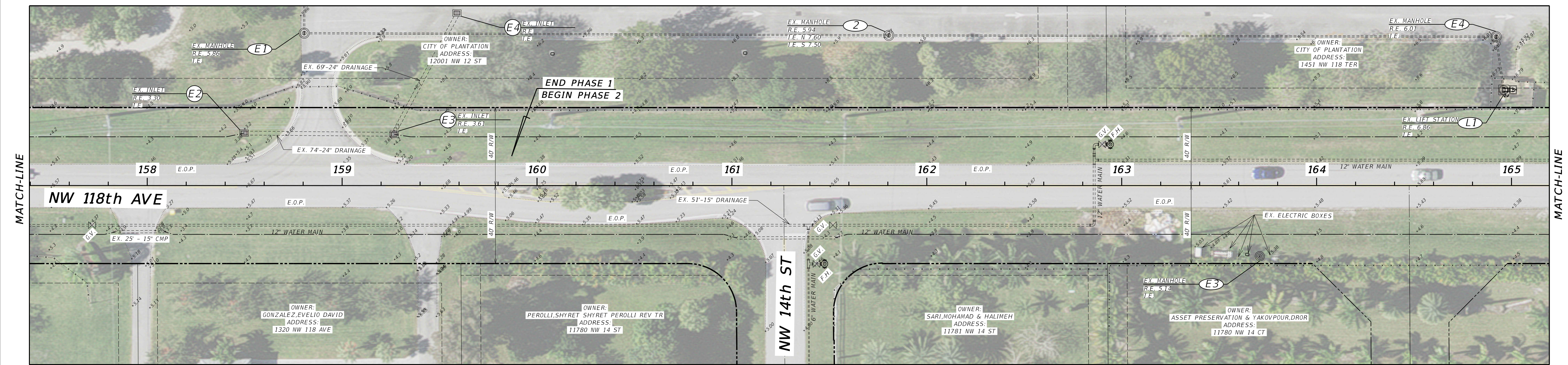
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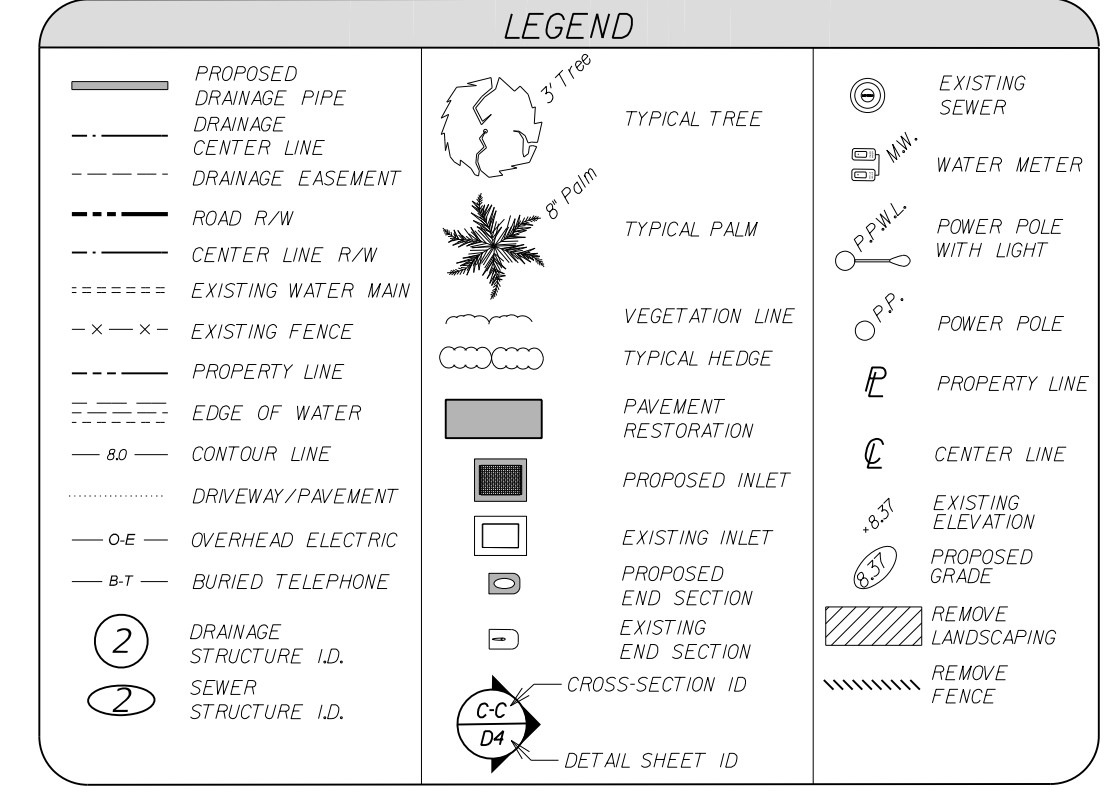
NW 118th AVENUE (C2 - C4 CANAL)
 PLANTATION ACRES IMPROVEMENT DISTRICT

DRAINAGE IMPROVEMENTS
 PLAN

PUBLISHED: 12/17/2023, 3:59:49 PM
PROJECT NUMBER: D2308.04-1
SHEET: 52 OF 3



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C.L. CENTER LINE	P.D. PLANT DISTRICT
C.S. CHAIN BOOK	P.E. DRAINAGE EASEMENT
D.E. DRAINAGE EASEMENT	P.F. POWER POLE
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E.O.P. EDGE OF PAVEMENT	PROP. PROPOSED
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FL. FOOT FLORIDA DEPARTMENT OF TRANSPORTATION	R.E. RIM ELEVATION
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O.R.B. OFFICIAL RECORDS BOOK	T.D.W. TOP OF WALL
	T.Y.P. TYPICAL
	U.E. UTILITY EASEMENT
	U.S.F. U.S. FOUNDRY
	W.M. WATER MAIN

NO.	REVISIONS	DATE	NO.	REVISIONS	DATE

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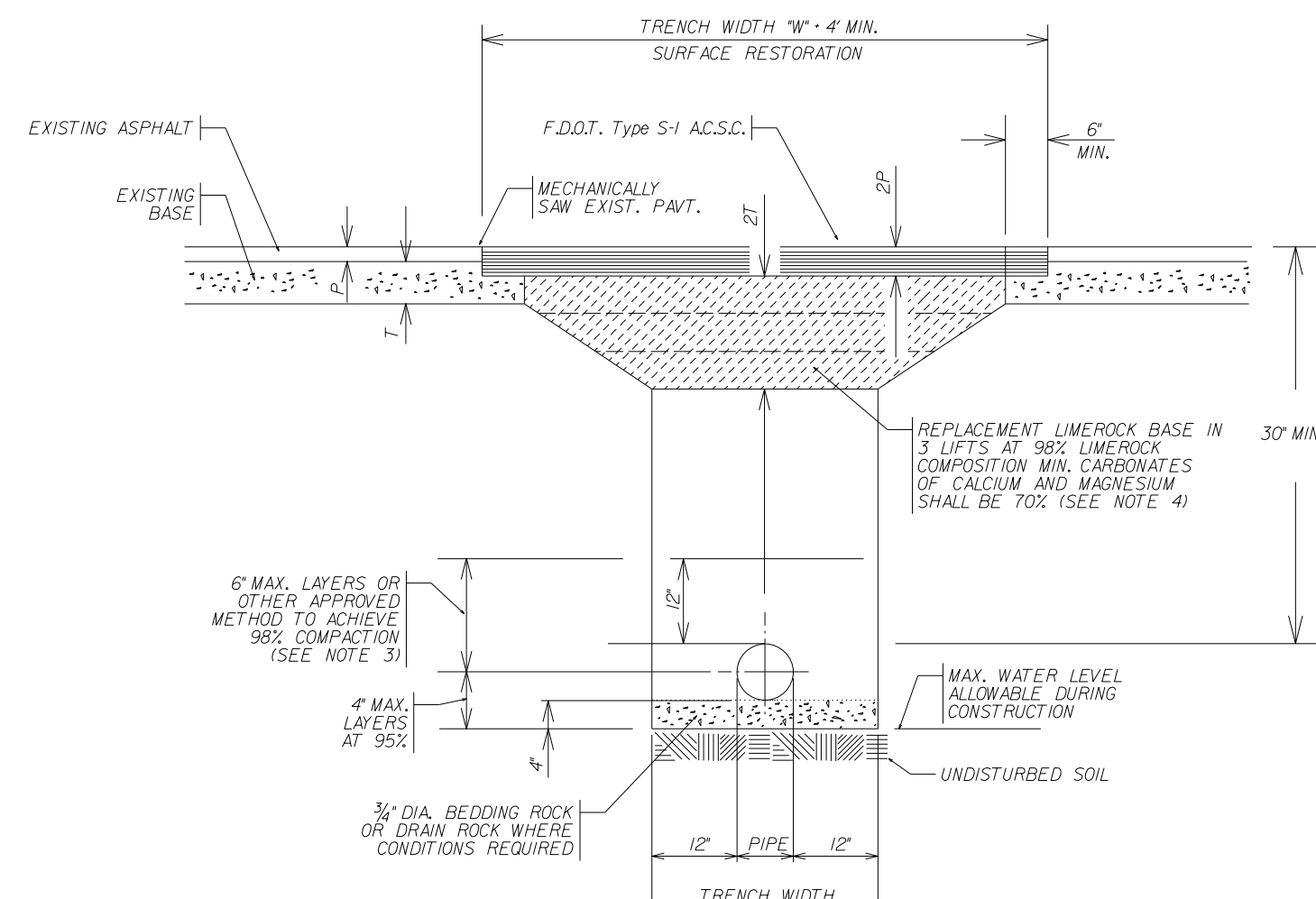
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NW 118th AVENUE (C2 - C4 CANAL)
PLANTATION ACRES IMPROVEMENT DISTRICT

DRAINAGE IMPROVEMENTS PLAN

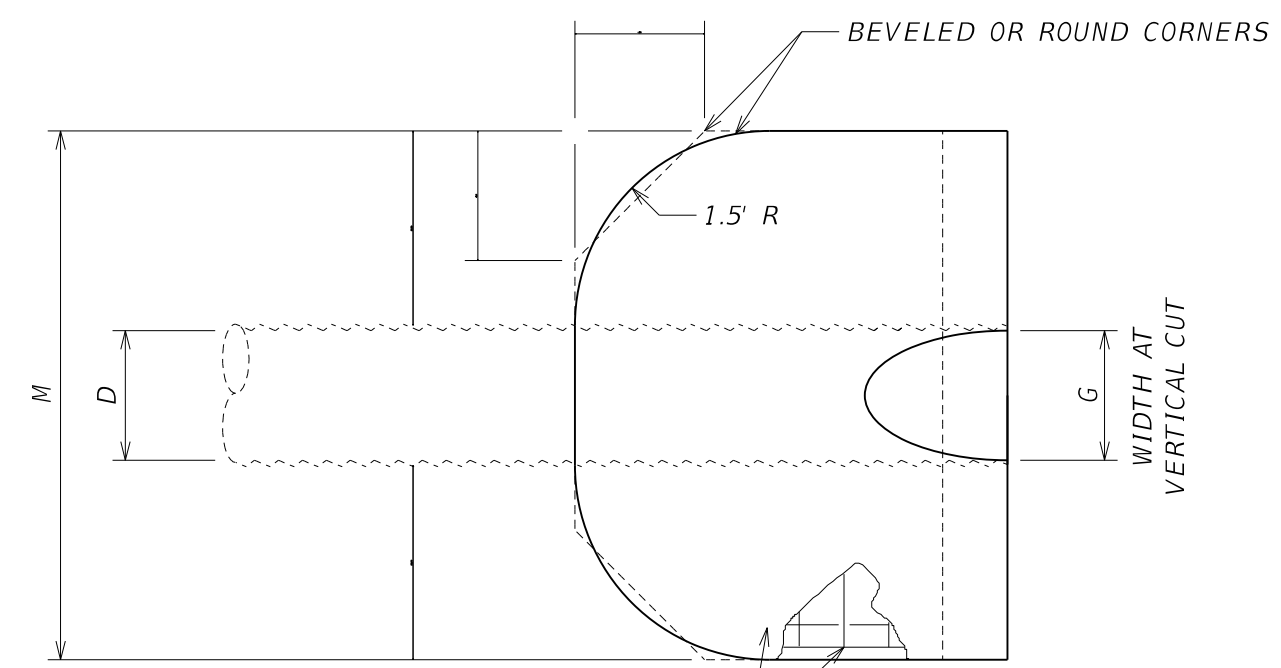
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SHEET: 53 OF 3





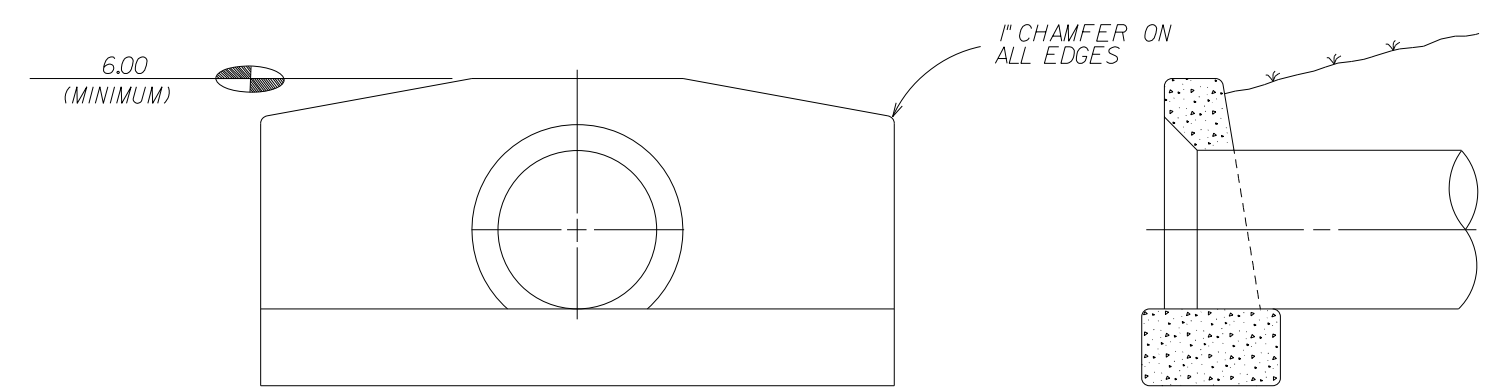
- NOTES:
- WHERE SOIL CONDITIONS CANNOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE APPROVED METHOD OF CONSTRUCTION.
 - SHEETING WILL BE REQUIRED AS DETERMINED IN THE FIELD.
 - BASE MATERIAL SHALL BE PLACED IN 6\"/>
 - BASE MATERIAL SHALL HAVE A MINIMUM LBR OF 100 AND A MINIMUM CARBONATE CONTENT OF 70%.
 - SUBGRADE MATERIAL SHALL BE GRANULAR AND SHALL HAVE A MINIMUM LBR OF 40.
 - SURFACE MATERIAL SHALL BE F.D.D.T. TYPE 5-1 AC.S.C.
 - SURFACE PAVEMENT JOINTS SHALL BE BUTT JOINT.
 - CUTS ACROSS ROADS SHALL NOT BE LEFT OPEN OVER NIGHT UNLESS ABSOLUTELY NECESSARY. TRENCHES SHALL BE BACKFILLED AND TEMPORARY ASPHALT APPLIED TO MAKE A SMOOTH LEVEL PATCH. THE TRENCHES SHALL THEN BE ENCAVED THE NEXT DAY AND PERMANENT BACKFILL AND PAVEMENT INSTALLED IN ACCORDANCE WITH THESE STANDARDS.
 - DENSITY TESTS OF COMPACTED FILL, BACKFILL AND/OR BASE SHALL BE TAKEN AT EACH 6\"/>
 - FOR ANY ROAD CROSSING IN WHICH THE ROAD IS CUT AND RESTORED ONE LANE AT A TIME, ONE DENSITY TEST SHALL BE TAKEN IN EACH LANE AT EACH 6\"/>
 - FOR ANY ROAD CROSSING IN WHICH THE ROAD IS CUT AND RESTORED TWO LANES AT A TIME, DENSITIES SHALL BE TESTED IN ONE LANE PER LIFT, ALTERNATING LANES WITH EACH LIFT. - THE CONTRACTOR SHALL FURNISH A BOND IN AN AMOUNT ACCEPTABLE TO THE CITY ENGINEER TO GUARANTEE COMPLETION OF WORK WITHIN THE APPROVED TIMEFRAME.
 - ALL PROCTOR AND FIELD DENSITY TESTS SHALL BE PERFORMED BY A CERTIFIED TESTING LABORATORY APPROVED BY THE CITY AND A COPY OF ALL TEST SHALL BE FURNISHED TO THE ENGINEERING DEPARTMENT.
- NOTE: THE ABOVE LISTED REPRESENTS THE MINIMUM PROCEDURE, THE INSPECTOR MAY REQUIRE ADDITIONAL TESTING IF, IN HIS/HER OPINION, CONDITIONS OR PRIOR TEST RESULTS WARRANT THEM.

TRENCH DETAIL



CONCRETE SLAB, 5 1/2\"/>

TOP VIEW



NOTE: REFER TO F.D.D.T. INDEX NO. 250 FOR CONCRETE HEADWALL DETAILS & DIMENSIONS, UNLESS OTHERWISE SHOWN ON CONSTRUCTION PLANS

PRECAST CONCRETE HEADWALL DETAIL

GENERAL NOTES:

SPECIFIED TREE ROOT BARRIERS ARE A MECHANICAL BARRIER AND ROOT DEFLECTOR TO PREVENT TREE ROOTS FROM DAMAGING HARDSCAPES AND LANDSCAPES ASSEMBLED IN 2\"/>

TO CREATE VARYING SIZES OF CYLINDERS FOR SURROUNDING ROOT BALLS (SURROUND PLANTING STYLE) OR FOR LINEAR APPLICATIONS DIRECTLY BESIDE A HARDSCAPE ADJACENT TO ONE SIDE OF THE TREES (LINEAR PLANTING STYLE).

A. MATERIALS

1. THE CONTRACTOR SHALL FURNISH AND INSTALL TREE ROOT BARRIERS AS SPECIFIED. THE TREE ROOT BARRIERS SHALL BE PRODUCT * UB 24-2 AS MANUFACTURED BY DEEP ROOT PARTNERS, LP, 345 LORTON AVE., ROCKBURN, ILL. 60421 (800-898-7868) OR APPROVED EQUAL.

THE BARRIER SHALL BE BLACK, INJECTION MOLDED PANELS, OF 0.085\"/>

MANUFACTURED WITH A MINIMUM 90% POST CONSUMER RECYCLED POLYPROPYLENE PLASTIC WITH ADDED ULTRAVIOLET INHIBITORS; RECYCLABLE. EACH PANEL SHALL HAVE:

NOT LESS THAN 4 MOLDED INTEGRAL VERTICAL ROOT DEFLECTING RIBS OF AT LEAST 0.085\"/>

A DOUBLE TOP EDGE CONSISTING OF TWO PARALLEL, INTEGRAL, HORIZONTAL RIBS AT THE TOP OF THE PANEL OF A MINIMUM 0.085\"/>

A MINIMUM OF 9 ANTI-LIFT GROUND LOCK TABS CONSISTING OF INTEGRAL HORIZONTAL RIDGES OF A MINIMUM 0.085\"/>

AN INTEGRATED ZIPPER JOINING SYSTEM PROVIDING FOR INSTANT ASSEMBLY BY SLIDING ONE PANEL INTO ANOTHER (SEE DETAIL 'C')

2. THE BASIC PROPERTIES OF THE MATERIAL SHALL BE:

TEST	ASTM TEST METHOD	VALUE	CORRELATIVE PROPERTY
TENSILE STRESS @ YIELD	D638	3800 PSI	POLYPROPYLENE
ELONGATION @ YIELD	D638	6.3%	
FLEXURAL MODULUS	D790B	155,000 PSI	
NOTCHED IZOD IMPACT	D256A	7J	
ROCKWELL HARDNESS R, SCALE D795A		68	

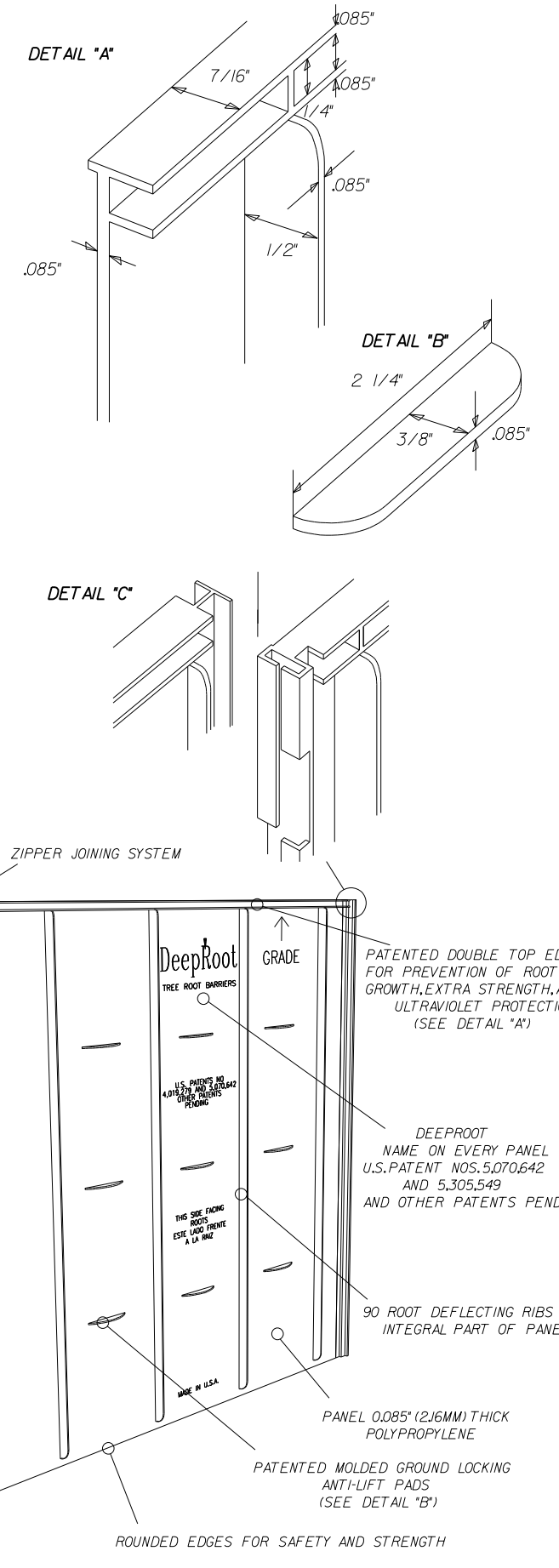
U.S. PATENTS: 5,305,549 AND 5,070,642, OTHER PATENTS PENDING.

B. CONSTRUCTION AND INSTALLATION

1. THE CONTRACTOR SHALL INSTALL THE TREE ROOT BARRIERS WITH THE NUMBER OF PANELS AND IN THE MANNER SHOWN ON THE DRAWINGS. THE VERTICAL ROOT DEFLECTING RIBS SHALL BE FACING INWARDS TO THE ROOT BALL AND THE TOP OF THE DOUBLE EDGE SHALL BE 1/2\"/>

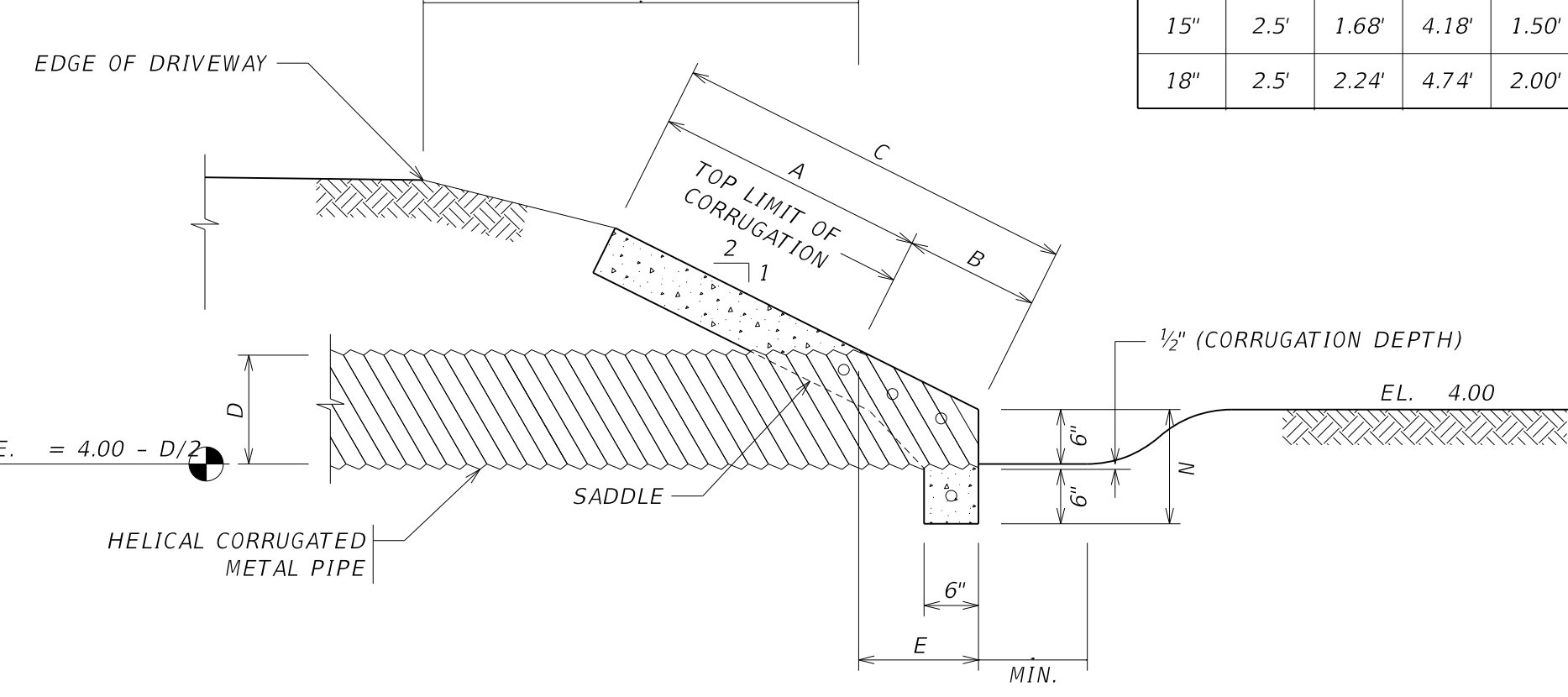
2. EXCAVATION AND SOIL PREPARATION SHALL CONFORM TO THE DRAWINGS. NO GRAVEL BACKFILL IS REQUIRED FOR A LINEAR PLANTING

24\"/>

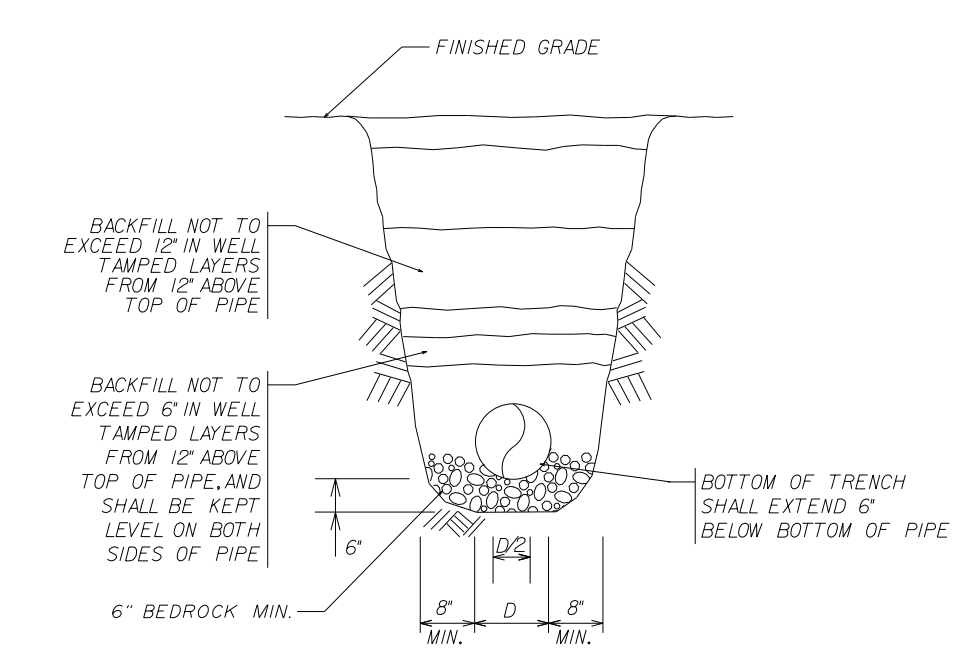


DIMENSIONS AND QUANTITIES

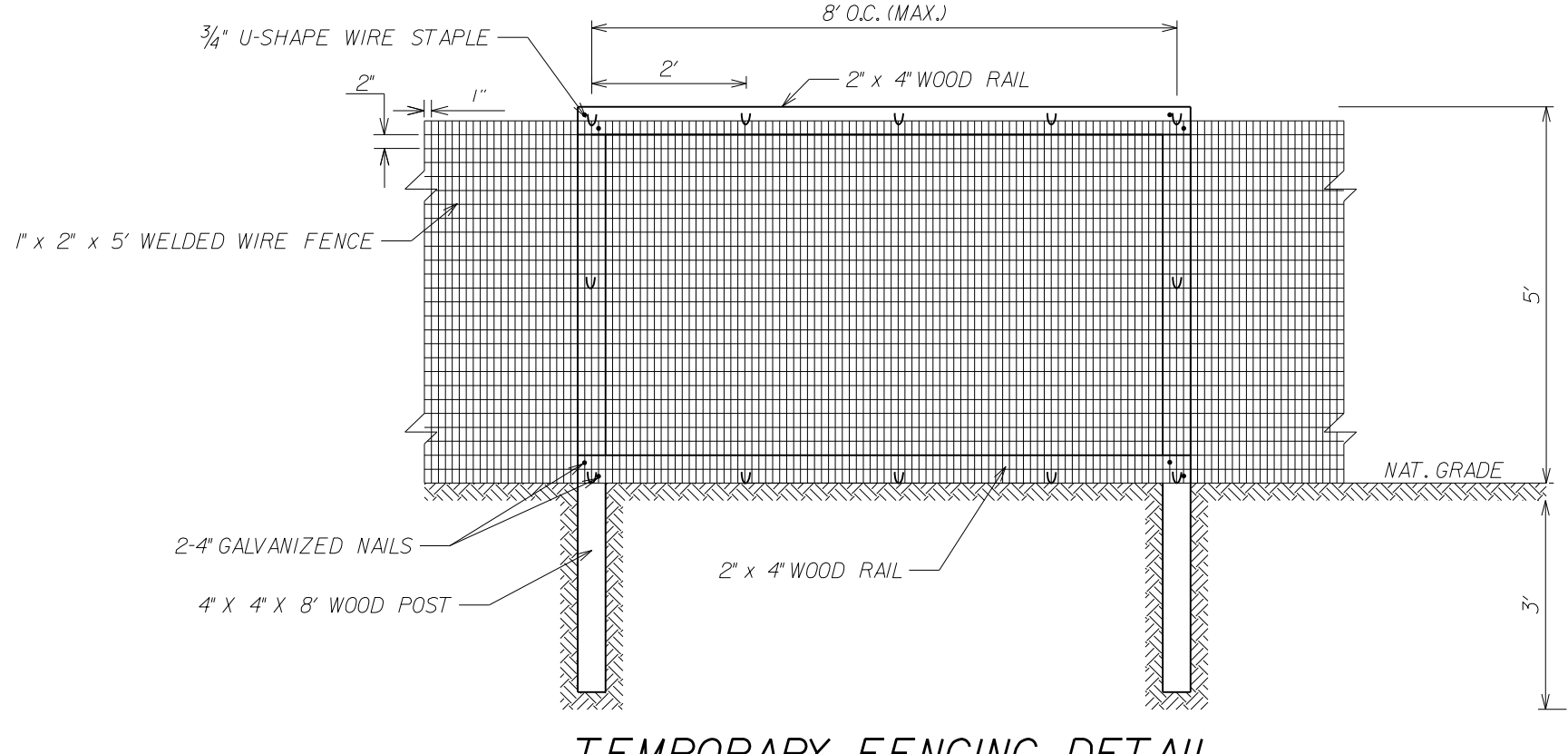
D	A	B	C	E	G	M	N
12"	2.5'	1.22'	3.72'	1.10'	1.00'	4.08'	1.04'
15"	2.5'	1.68'	4.18'	1.50'	1.23'	4.33'	1.04'
18"	2.5'	2.24'	4.74'	2.00'	1.41'	4.58'	1.04'



SECTION VIEW

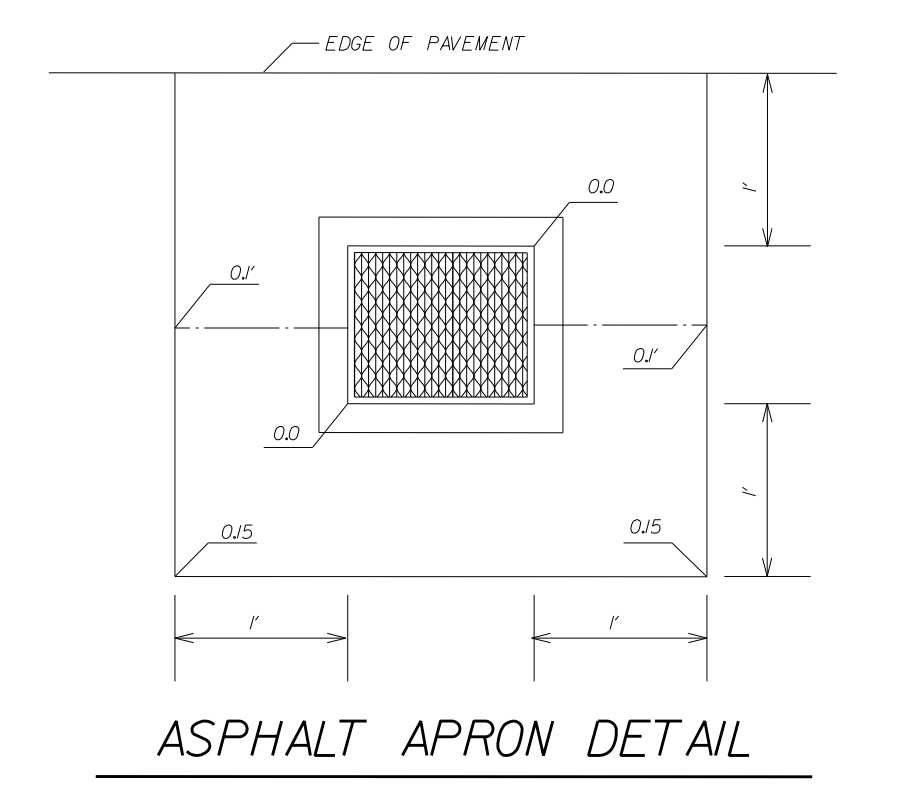


PIPE BEDDING DETAIL

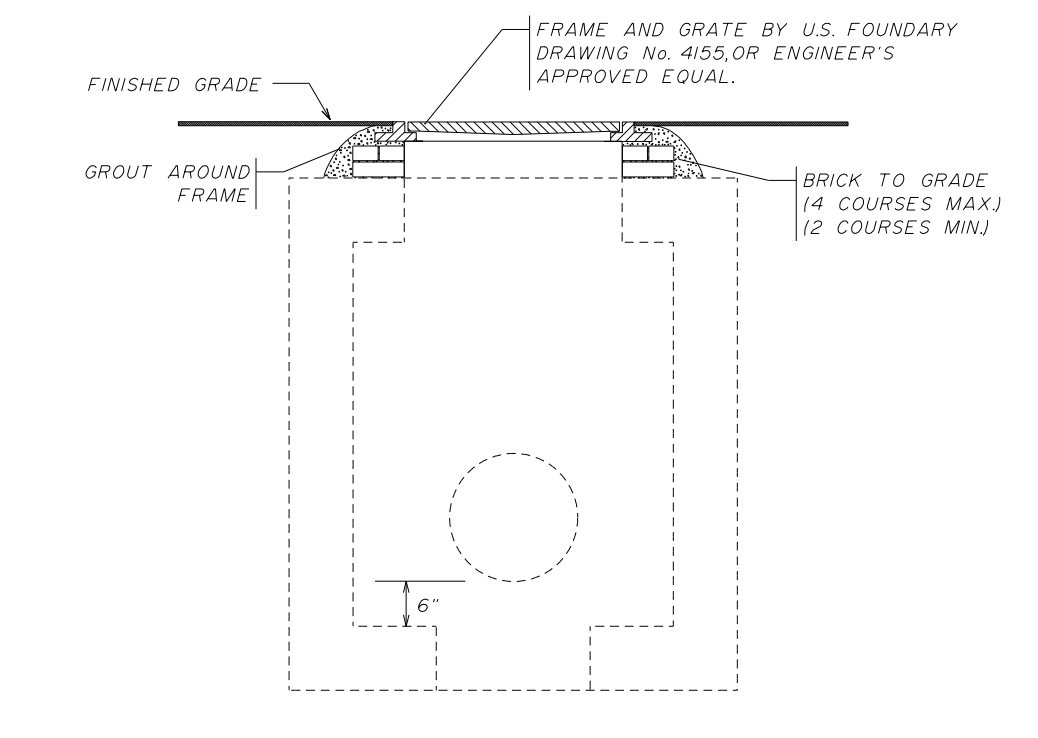


TEMPORARY FENCING DETAIL

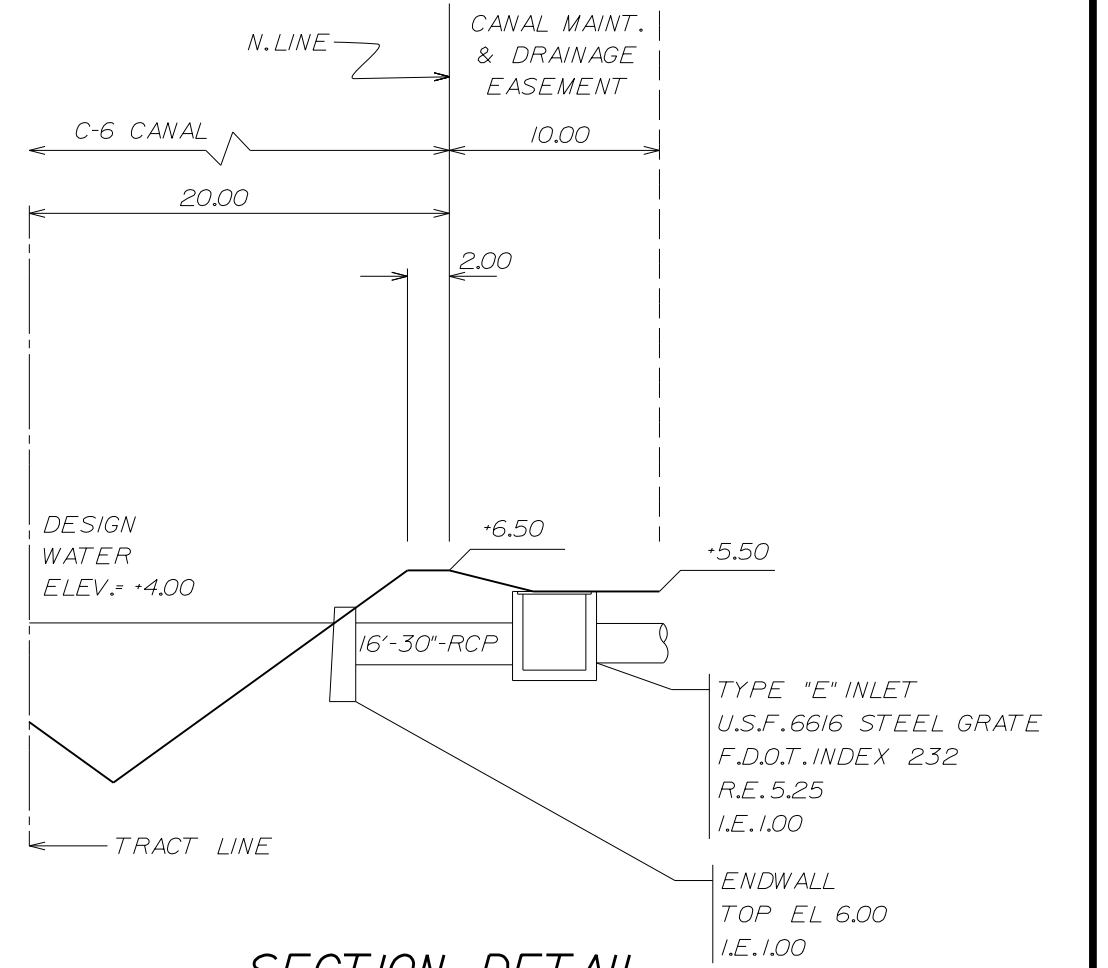
- FENCING NOTES:**
- WELDED WIRE FENCING SHALL BE 1x2\"/>
 - CORNER AND LINE POSTS SHALL BE WOOD (4\"/>
 - TOP AND BOTTOM RAILS SHALL BE WOOD NO.2 GRADE OR BETTER FASTENED TO CORNER AND LINE POSTS BY 4\"/>
 - WIRE STAPLES SHALL BE 3/4\"/>
 - FENCING SEQUENCE SHALL BEGIN WITH INSTALLING WOOD POSTS, TOP AND BOTTOM RAILS, FOLLOWED BY WIRE FENCE TO POSTS USING WIRE STAPLES.
 - BOTTOM OF FENCE TO FOLLOW THE NATURAL CONTOUR OF THE LAND.
 - CONTRACTOR TO VERIFY ALL MATERIALS WITH F.B.C. PRIOR TO FENCE INSTALLATION.



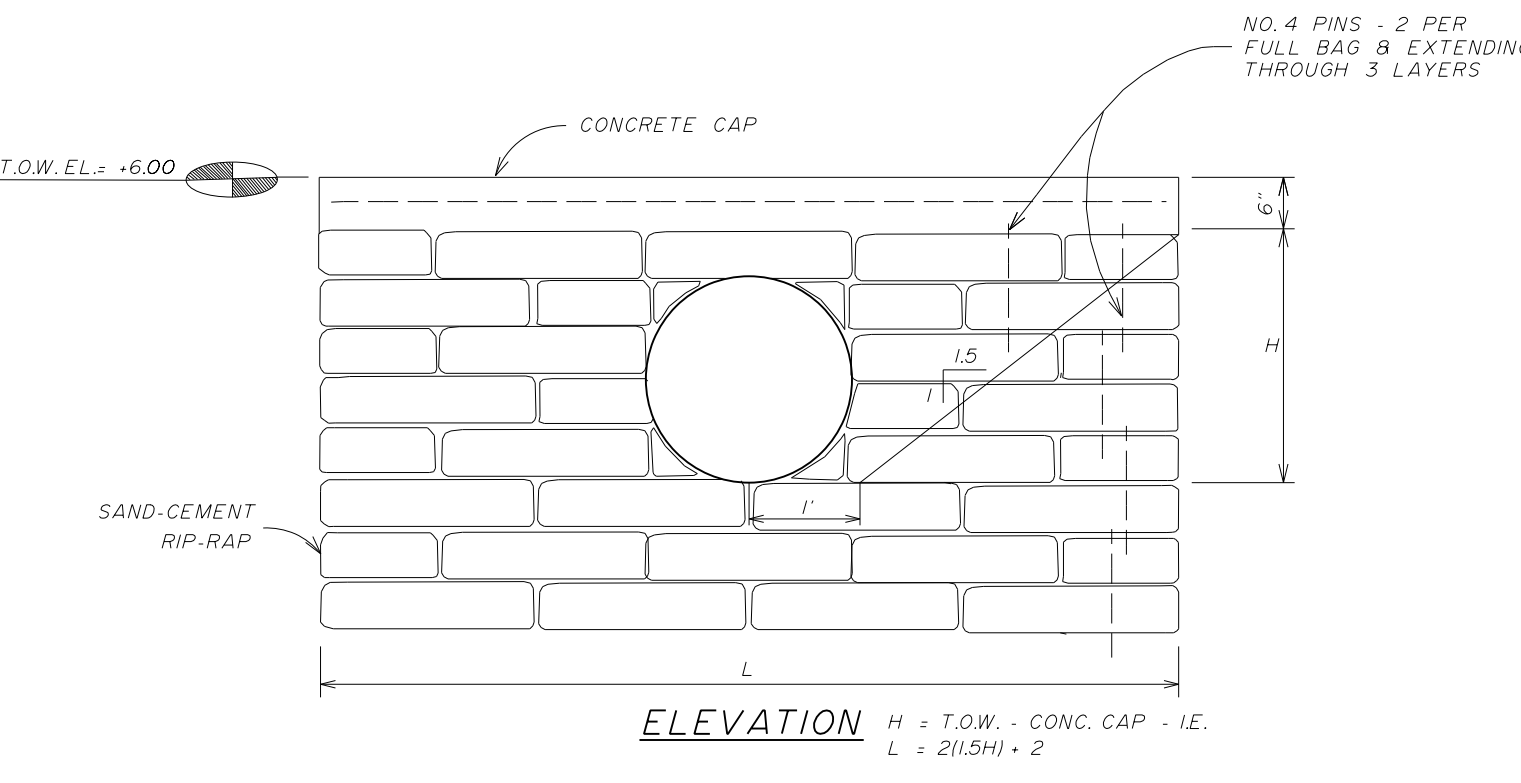
ASPHALT APRON DETAIL



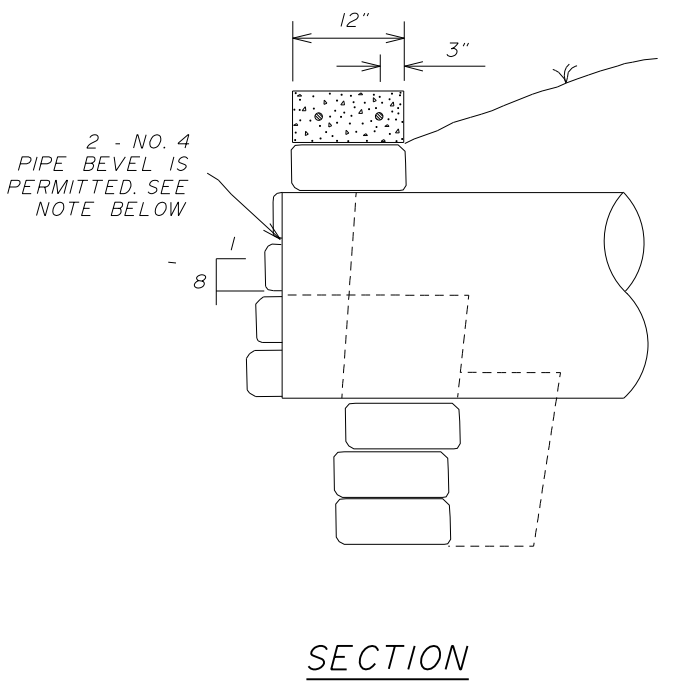
PRECAST INLET DETAIL



SECTION DETAIL



RIP-RAP HEADWALL DETAIL



SECTION



Know what's below. Call before you dig.



ENGINEER'S STAFF REPORT
FOR December 14, 2023 MEETING
AGENDA ITEM No.: D3

Action Required: Update

Item Description: SW 3rd Street & SW 122nd Ave. Drainage Improvements

P.A.I.D. Number: D2308.06

Attachments: 8-1/2" x 11" Engineer's Cost Estimate
11" x 17" Construction Plans - Progress Set

Summary: This project was approved by the Board in September for proposed drainage improvements on SW 3rd Street and SW 122nd Avenue.

The construction plans are near completion and will be ready for Board Approval at next month's meeting.

Comments: N/A

Prepared by: BMP Date: 12/7/23

ENGINEER'S COST ESTIMATE

SW 3rd St and SW 122nd Ave Improvements

PROJECT NUMBER D2308.06

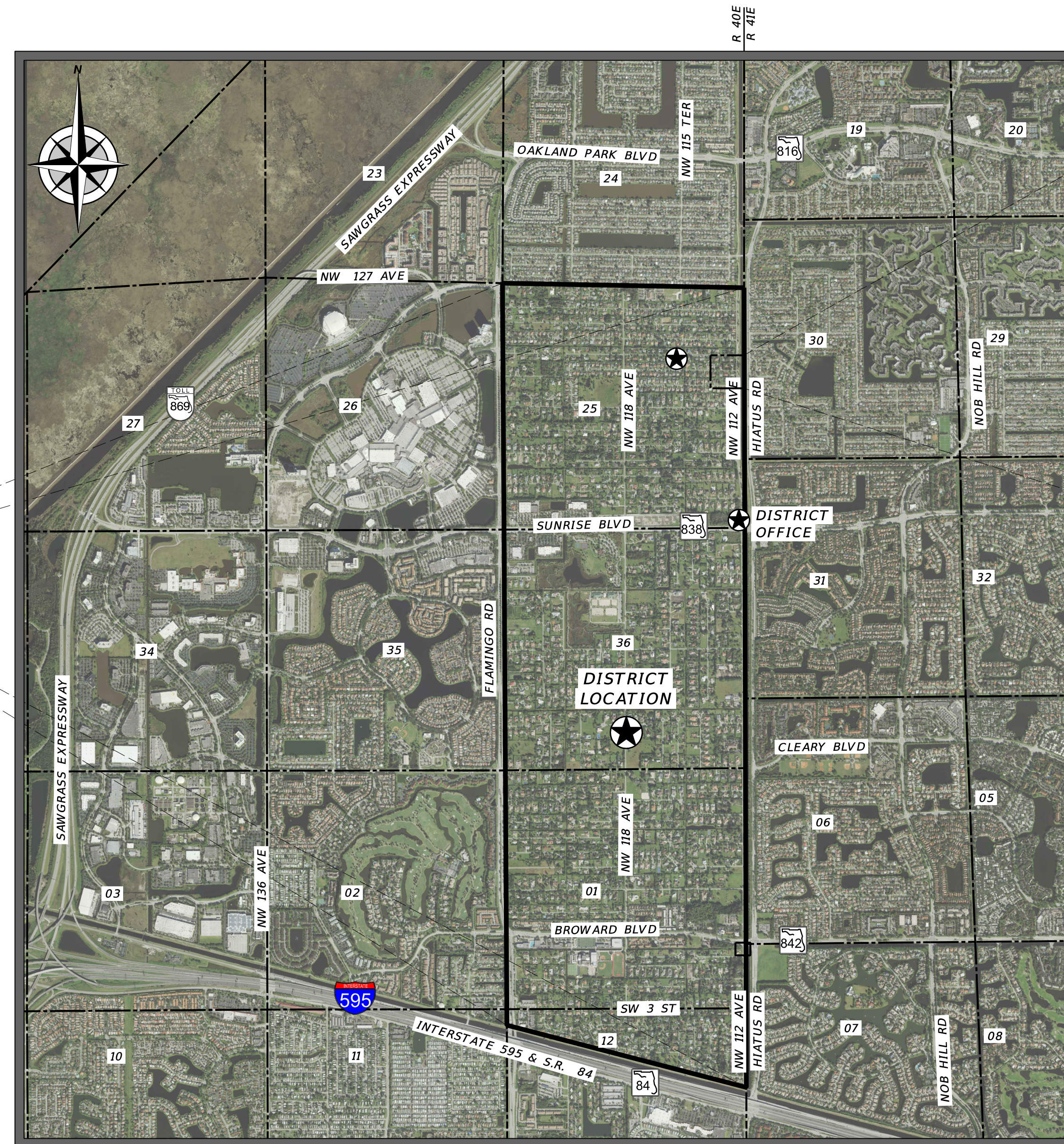
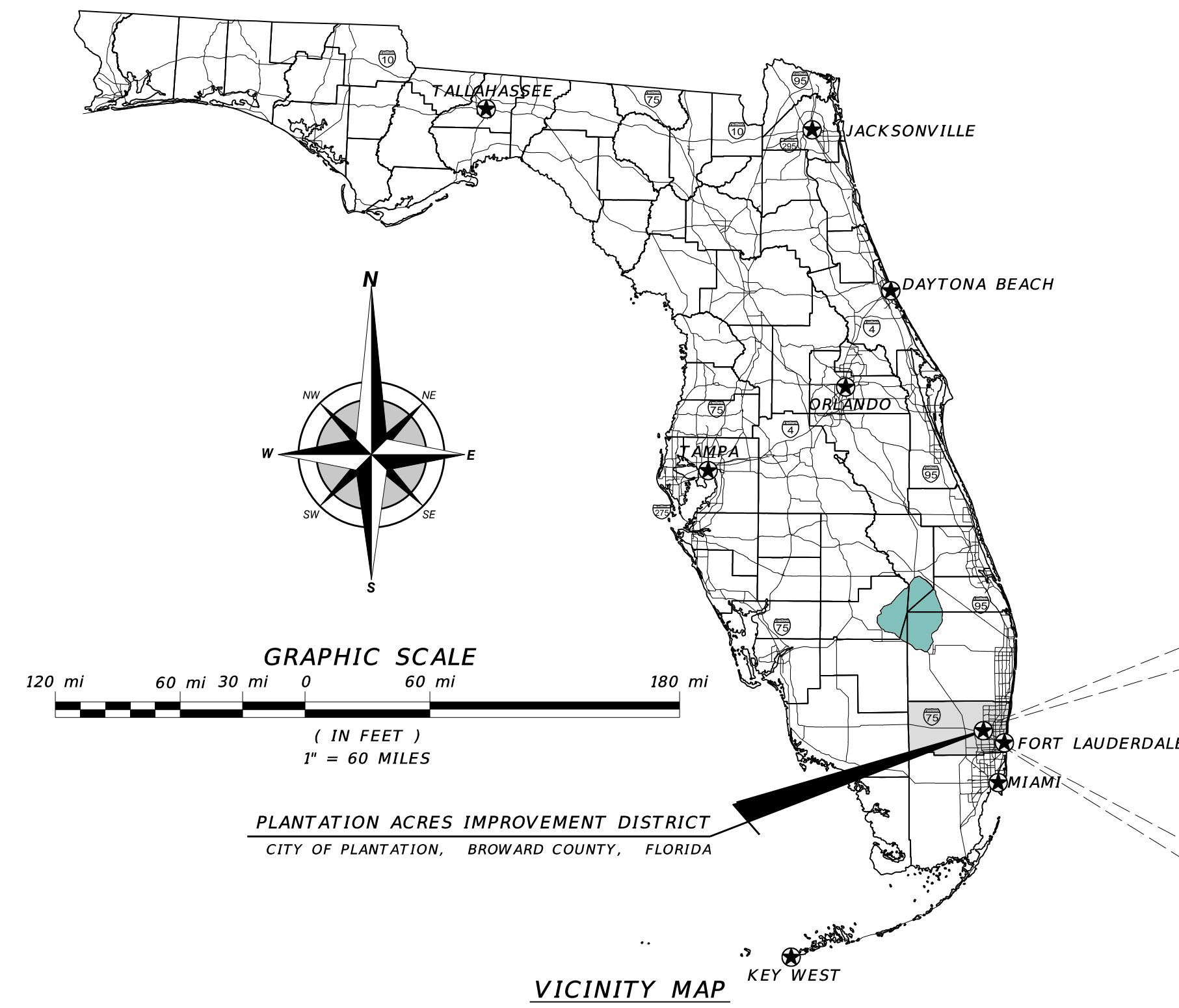
ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
D1-3	Reinforced concrete pipe (24"):	32	L.F.	\$200.00	\$6,400.00
D2-1	Type 'E' Inlet	1	EACH	\$6,500.00	\$6,500.00
D7-1	Asphalt apron	1	L.S.	\$800.00	\$800.00
D8-1	Core & Connect to Existing Structure	1	L.S.	\$1,000.00	\$1,000.00
P1-1	Pavement Restoration:	1	L.S.	\$10,000.00	\$10,000.00
S1-1	Clearing	1	L.S.	\$6,000.00	\$6,000.00
S1-3	Sodding	20	S.Y.	\$10.50	\$210.00
M1-4	Mobilization & Demobilization	1	L.S.	\$15,000.00	\$15,000.00
			Subtotal:		\$45,910.00
C1-1	Maintenance of Traffic (MOT)	2	%		\$918.20
C1-2	Performance Bond	3	%		\$1,377.30
C1-3	Permitting and Certifications	3	%		\$1,377.30
E1-3	Inspections	3	%		\$1,377.30
	Contingencies	10	%		\$4,591.00
TOTAL ESTIMATED COST:					\$55,551.10

PREPARED BY:
WINNINGHAM AND FRADLEY
ENGINEERS AND SURVEYORS
PROJECT NUMBER: D2308.06
December 7, 2023

IMPROVEMENTS FOR SW 3RD ST & SW 122ND AVE

PLANTATION ACRES IMPROVEMENT DISTRICT

CITY OF PLANTATION, BROWARD COUNTY, FLORIDA



INDEX TO SHEETS

DESCRIPTION	SHEET NUMBER
GENERAL NOTES & SPECIFICATIONS	GN1 OF 1
TEMPORARY POLLUTION PREVENTION - DETAILS	TPP1 OF 1
DRAINAGE IMPROVEMENT - PLAN	D1 OF 2
DRAINAGE IMPROVEMENT - DETAILS	D2 OF 2
DRAINAGE SYSTEM - CONSTRUCTION DEWATERING PLAN	DW1 OF 1

PERMITTING AGENCIES	SUBMITTED	APPROVED	PERMIT No.	EXPIRES
CITY OF PLANTATION				
S.F.W.M.D. ERP				
S.F.W.M.D. R.O.W.				
S.F.W.M.D. CONSTRUCTION DEWATERING				
N.P.D.E.S.				

NOTE:
 IF ALL THE ABOVE INFORMATION HAS NOT BEEN PROVIDED, THIS SET OF DRAWINGS SHOULD NOT BE USED FOR CONSTRUCTION.

DRAINAGE IMPROVEMENTS PLAN

PROGRESS SET



Know what's below.
 Call before you dig.



GENERAL PROJECT NOTES

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL GIVE TIMELY NOTIFICATION TO ALL UTILITY COMPANIES WITH FACILITIES IN THE AREA.
2. THE LOCATIONS OF EXISTING FACILITIES WERE PLOTTED FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO SAFEGUARD ALL EXISTING STRUCTURES, UTILITIES, LANDSCAPING, AND SURVEY MARKERS.
4. THE CONTRACTOR AND/OR HIS SUPERINTENDENT SHALL MAINTAIN A MINIMUM OF ONE (1) COPY OF EACH OF THE FOLLOWING PUBLICATIONS ON THE JOB SITE DURING CONSTRUCTION OF THIS PROJECT:
 - A. F.D.O.T. - STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION.
 - B. F.D.O.T. - ROADWAY AND TRAFFIC DESIGN STANDARDS, 2010 EDITION.
 - C. U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES 2009 EDITION.
 - D. BROWARD COUNTY "MINIMUM STANDARDS" APPLICABLE TO PUBLIC RIGHTS OF WAY UNDER BROWARD COUNTY JURISDICTION, OCTOBER 25, 2005 OR LATEST REVISION.

GENERAL SPECIFICATIONS

1. APPLICABLE CODES
 - A. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE PLANTATION ACRES IMPROVEMENT DISTRICT, AND ALL OTHER LOCAL, STATE, AND NATIONAL CODES WHERE APPLICABLE.
 - B. ALL PAVEMENT CROSSINGS WITHIN LIMITS OF PUBLIC RIGHTS OF WAY UNDER LOCAL JURISDICTION SHALL CONFORM WITH THE PUBLIC WORKS DEPARTMENT MINIMUM STANDARDS, LATEST EDITION. ALL CONSTRUCTION WITHIN LIMITS OF FLORIDA DEPARTMENT OF TRANSPORTATION SHALL CONFORM WITH F.D.O.T. DESIGN STANDARDS 2008.
 - C. ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER AND IN STRICT COMPLIANCE WITH ALL REQUIREMENTS OF FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, AND ALL STATE AND LOCAL SAFETY AND HEALTH REGULATIONS.
 - D. ALL ELEVATIONS SHOWN ON THE CONSTRUCTION DRAWINGS ARE BASED ON NATIONAL GEODETICAL VERTICAL DATUM OF 1929, (N.G.V.D.), UNLESS OTHERWISE NOTED.
2. PRECONSTRUCTION RESPONSIBILITIES
 - A. UPON THE RECEIPT OF THE "NOTICE TO PROCEED," THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND ARRANGE A PRECONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, UTILITY OWNERS, THE OWNER AND THE ENGINEER OF RECORD.
 - B. THE CONTRACTOR SHALL OBTAIN AN U.N.C.L.E. CERTIFICATION NUMBER AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION. PRIOR TO ANY CONSTRUCTION ACTIVITY, CALL 811.
 - C. ALL UTILITY EASEMENTS AND RIGHT-OF-WAY TO BE SECURED PRIOR TO CONSTRUCTION. (IF REQUIRED)
 - D. ALL APPLICABLE CONSTRUCTION PERMITS SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO START OF CONSTRUCTION.
3. INSPECTIONS
 - A. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AND OTHER GOVERNMENTAL AGENCIES HAVING JURISDICTION AT LEAST 24 HOURS PRIOR TO THE BEGINNING CONSTRUCTION AND PRIOR TO THE FOLLOWING ITEMS, WHERE APPLICABLE:
 1. CLEARING AND FILLING
 2. STORM DRAINAGE SYSTEM
 3. ROADWAY RESTORATION
4. SHOP DRAWINGS
 - A. PRIOR TO THEIR CONSTRUCTION OR INSTALLATION, SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD AND THE CITY OF PLANTATION. FOR THE FOLLOWING ITEMS: SANITARY MANHOLES, CATCH BASINS, FIRE HYDRANTS, VALVE AND ALL REQUIRED ACCESSORIES.
5. TEMPORARY FACILITIES
 - A. TEMPORARY FACILITIES:
 1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES, AND ELECTRICITY FOR NO ADDITIONAL COST TO THE OWNER FOR THEIR EMPLOYEES.
 - B. TRAFFIC REGULATION
 1. MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH M.U.T.C.D.
 2. ALL OPEN TRENCHES AND EXCAVATIONS 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 EXCAVATIONS NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS WITHOUT EXPRESS PERMISSION OF THE CITY OF PLANTATION.
4. IF ROAD CLOSURES ARE REQUIRED, THE CONTRACTOR SHALL CONTACT THE LOCAL POLICE DEPARTMENT OFFICE TO COORDINATE THE APPROPRIATE ACTION.

C. MATERIAL AND EQUIPMENT STORAGE AREAS

1. THE CONTRACTOR SHALL SELECT THE SUITABLE LOCATION OF TEMPORARY STORAGE SITES.
2. PROOF OF PERMISSION FOR THE USE OF PRIVATE PROPERTY SHALL BE PROVIDED BY THE CONTRACTOR PRIOR TO THE START OF THE PROJECT.

6. PROJECT CLOSEOUT

- A. CLEANING UP:
 1. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER, AND UPON FINAL CLEAN-UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE SWEEP BROOM CLEAN.
 2. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS WORK, EQUIPMENT, OR EMPLOYEES, TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS. TO THE END, THE CONTRACTOR SHALL DO AS REQUIRED, ALL NECESSARY HIGHWAY, 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 HAVE 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 THE PROGRESS OF THE WORK, AND THE AREA KEPT IN CLEAN AND NEAT CONDITION.
- B. ALL PROPERTY MONUMENTS OR PERMANENT REFERENCES, REMOVED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED BY A STATE OF FLORIDA REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- C. ALL UNPAVED SURFACES SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION.
- D. PROJECT RECORD DOCUMENTS
 1. DURING THE DAILY PROGRESS OF THE JOB, THE CONTRACTOR SHALL RECORD ON HIS SET OF CONSTRUCTION DRAWINGS THE EXACT LOCATION, LENGTH AND ELEVATION OF ANY FACILITY NOT BUILT EXACTLY ACCORDING TO PLANS. ELEVATION OF ANY FACILITY NOT BUILT EXACTLY ACCORDING TO PLANS.
 2. UPON COMPLETION OF CONSTRUCTION, AND PRIOR TO FINAL PAYMENT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD ONE COMPLETE SET OF ALL "AS-BUILT" CONTRACT DRAWINGS. THESE DRAWINGS SHALL BE MARKED TO SHOW "AS-BUILT" CONSTRUCTION CHANGES AND DIMENSIONS, LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS.
 3. ALL "AS-BUILT" INFORMATION ON PLANS SHALL BE CERTIFIED BY A PROFESSIONAL SURVEYOR AND MAPPER REGISTERED IN THE STATE OF FLORIDA.

7. EARTHWORK AND COMPACTION

- A. ALL ORGANIC AND OTHER UNSUITABLE MATERIAL SHALL BE REMOVED UNDER THESE AREAS TO BE PAVED AND FOR THE FULL WIDTH OF THE RIGHT-OF-WAY.
- B. SUITABLE BACKFILL SHALL BE USED AND COMPACTED AS DIRECTED BY THE ENGINEER OF RECORD. ALL TRENCHES SHALL BE BACKFILLED AND COMPACTED TO 98% STANDARD PROCTOR ON THIS PROJECT. TESTING SHALL BE VERIFIED BY TESTING COMPANY.

8. PAVING

- A. GENERAL:
 1. ALL UNDERGROUND UTILITIES SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF LIMEROCK BASE.
 2. ALL EXISTING PAVEMENT, CUT OR DAMAGED BY CONSTRUCTION SHALL BE PROPERLY RESTORED AT THE CONTRACTOR'S EXPENSE.
 3. FOR ANY PROPOSED CONNECTIONS, THE EXISTING EDGE OF PAVEMENT SHALL BE SAW CUT.
- B. MATERIAL:
 1. BASE COURSE SHALL BE CRUSHED LIMEROCK MIAMI COLITE WITH A MINIMUM OF 70% CARBONATES OF CALCIUM AND MAGNESIUM.
 2. ASPHALT SURFACES SHALL BE S-3 ASPHALTIC CONCRETE, UNLESS OTHERWISE SPECIFIED ON THE PLANS.

C. INSTALLATION:

1. SUBGRADE FOR ROADWAY SHALL BE COMPACTED TO A MINIMUM OF 98% OF THE MAXIMUM DENSITY (AASHTO T-180). SHALL BE MIN. 12" THICKNESS, MIN. L.B.R. 40.
2. BASE COURSE MATERIAL FOR PAVED AREAS SHALL HAVE A MINIMUM THICKNESS OF 8" PLACED ON A SINGLE LAYER FOR STREETS. (6 INCHES FOR DRIVEWAYS AND DESIGNATED PARKING AREAS).
3. BASE COURSE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
4. INSTALLATION OF THE WEARING SURFACE SHALL CONFORM WITH THE REQUIREMENTS OF THE D.O.T. STANDARD SPECIFICATIONS FOR ASPHALTIC CONCRETE.

D. TESTING:

1. THE FINISHED SURFACE OF THE BASE COURSE AND THAT OF THE WEARING SURFACE SHALL NOT VARY MORE THAN 1/4" FROM THE TEMPLATE. ANY IRREGULARITIES EXCEEDING THIS LIMIT SHALL BE CORRECTED.
2. DENSITY TESTS SHALL BE TAKEN BY AN INDEPENDENT TESTING LABORATORY, CERTIFIED BY THE STATE OF FLORIDA, WHERE DIRECTED BY THE ENGINEER.
3. ALL TESTING COSTS (PAVING) SHALL BE PAID FOR BY THE OWNER EXCEPT THOSE TESTS FAILING TO MEET THE SPECIFIED REQUIREMENTS WHICH ARE TO BE PAID BY THE CONTRACTOR.

E. DRAINAGE SYSTEM:

1. ALL DRAINAGE PIPE SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO A.S.T.M. C76-70 OR A.S.T.M. C-1450.
2. THE DRAINAGE SYSTEM HAS BEEN DESIGNED USING REINFORCED CONCRETE PIPE (R.C.P.). NO ALTERNATIVES WILL BE USED.
3. THE CONTRACTOR SHALL NOTIFY THE PLANTATION ACRES IMPROVEMENT DISTRICT 24 HOURS PRIOR TO CONSTRUCTION AT (954) 474-3092.

9. PAVEMENT MARKINGS

- A. PROVIDE AND INSTALL ALL NECESSARY PAVEMENT MARKINGS AND SIGNS IN ACCORDANCE WITH THE "MANUAL OF OPERATIONS STANDARDS," FLORIDA DEPARTMENT OF TRANSPORTATION, AND THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (M.U.T.C.D.), UNITED STATES DEPARTMENT OF TRANSPORTATION. ALL TRAFFIC SIGNS SHALL BE FULLY REFLECTORIZED.
- B. ALL PAVEMENT MARKINGS SHALL BE F.D.O.T. THERMOPLASTIC WITH RAISED REFLECTIVE MARKERS. PLEASE REFER TO PLANS.
- C. THE PAVEMENT MARKINGS (PAINT) SHALL BE APPLIED TO THE FIRST INCH OF ASPHALT WITHIN ONE CALENDAR DAYS AFTER THE APPLICATION OF THE ASPHALT.
- D. ALL SIGNS SHALL HAVE HIGH INTENSITY SHEETING.

MAINTENANCE OF TRAFFIC

REFER TO F.D.O.T. INDEX 600-670 (TRAFFIC CONTROL THROUGH WORK ZONES) FOR MAINTENANCE OF TRAFFIC.

TEMPORARY POLLUTION PREVENTION

REFER TO F.D.O.T. INDEX 102-103 FOR TEMPORARY POLLUTION PREVENTION SYSTEM DETAILS.

NO.	REVISIONS	DATE	NO.	REVISIONS	DATE

DESIGNED: **BMP** DATE: 11/2023
 DRAWN: **AMF** DATE: 11/2023
 CHECKED: **BMP** DATE: 11/2023



SW 3RD ST & 122ND AVE IMPROVEMENTS
 PLANTATION ACRES IMPROVEMENT DISTRICT

GENERAL NOTES & SPECIFICATIONS
 PROJECT NUMBER: D2308.06 SHEET: GN1 OF 1



\\P:\AD\Projects\10\2023\02\230806-06_S14_S14_SW_10291_Ave Improvements\CAD\CIP\02-General Notes.dwg(10/11)

CONTRACTOR'S REQUIREMENTS

GENERAL

THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS. DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULANT TO RETENTION SYSTEM PRIOR TO PLACING THE SYSTEM INTO OPERATION.

SEQUENCE OF MAJOR ACTIVITIES

- THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:
1. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
 2. INSTALL SILT FENCES AND HAY BALES AS REQUIRED.
 3. CLEAR AND GRUB FOR DIVERSION SWALE/DIKES AND SEDIMENT BASIN.
 4. CONSTRUCT SEDIMENTATION BASIN.
 5. CONTINUE CLEARING AND GRUBBING.
 6. STOCK PILE TOP SOIL IF REQUIRED.
 7. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED.
 8. STABILIZE DENIED AREAS AND STOCKPILES AS SOON AS PRACTICABLE.
 9. INSTALL UTILITIES: STORM SEWER, COURSES & GUTTERS
 10. APPLY BASE TO PROJECT.
 11. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD AND PLANTING.
 12. REMOVE ACCUMULATED SEDIMENT FROM BASINS.
 14. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALE/DIKES AND RESEED/SOD AS REQUIRED.

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND HAY BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND THE LEATH DIKES/SWALES WILL BE REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE EROSION & TURBIDITY CONTROL PLAN.

CONTROLS

IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SPECIFIED IN THE EROSION AND TURBIDITY CONTROL NOTES. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS AS SPECIFIED IN THE EROSION AND TURBIDITY CONTROL NOTES AND ADD ADDITIONAL CONTROL MEASURES AS REQUIRED TO ENSURE THE SITE MEETS ALL FEDERAL, STATE, AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE CONTRACTOR AS REQUIRED BY THE EROSION AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.

EROSION AND SEDIMENT CONTROL

1. INSTALL TURBIDITY SCREENS IN LAKE AS INDICATED, PER SF.W.M.D. CRITERIA.
2. INSTALL ADDITIONAL SILT FENCE/WINDSCREEN AS NEEDED TO REDUCE WINDBLOWN EROSION.
3. PROVIDE MINIMUM 6" DEEP SWALE AROUND SITE PERIMETER TO CONTAIN SOIL EROSION ON-SITE, REGRADE SWALE DURING CONSTRUCTION AS REQUIRED TO MAINTAIN 6" SWALE.
4. CONSTRUCT A TEMPORARY MINIMUM 6" DEEP REVERSE BERM ALONG THE TOP OF LAKE BANK TO CONTAIN SURFACE WATER RUNOFF FROM ERODING THE LAKE BANK.
5. PROVIDE TEMPORARY CONSTRUCTION ACCESS ROAD WITH COMPACTED LIME ROCK AS SOON AS PRACTICAL.
6. PROVIDE FILTER FABRIC ON ALL DRAINAGE CATCH BASIN INLETS UNTIL FINAL LANDSCAPING IS IN PLACE.
7. TURBIDITY SCREENS SHALL NOT BE REMOVED UNTIL ALL AREAS AROUND INLETS HAVE BEEN GRADED & SODDED AND THE LAKE HAS MET STATE TURBIDITY STANDARDS
8. CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES WEEKLY AND AFTER ANY INTENSE RAINFALL OF GREATER THAN 0.5" AND REPAIR AS NECESSARY.

EROSION AND SEDIMENT CONTROL STABILIZATION PRACTICES

1. HAY BALE BARRIERS: HAY BALE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:
 - A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.
 - B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.
 - C. WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS.
 - D. EVERY EFFORT SHOULD BE MADE TO LIMIT THE USE OF STRAW BALE.
 - E. BARRIERS CONSTRUCTED IN LIVE STREAMS OR IN SWALES WHERE THERE IS THE POSSIBILITY OF A WASHOUT, IF NECESSARY, MEASURES SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO INSURE AGAINST WASHOUT.

2. FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:
 - A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.
 - B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.
3. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE.
4. LEVEL SPREADER/A LEVEL SPREADER MAY BE USED WHERE SEDIMENT-FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED AWAY FROM THE GRADED AREAS ONTO UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL UP IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE.
5. STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY TO THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.

6. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 10 ACRES. THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREA WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.

7. INLET PROTECTION: INLETS AND CATCH BASINS WHICH DISCHARGE DIRECTLY OFF-SITE SHALL BE PROTECTED FROM SEDIMENT-LOADED STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.

8. TEMPORARY SEEDING AREAS: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 30 DAYS SHALL BE SEEDDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING.

9. TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 8 ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH.

10. TEMPORARY GRASSING: THE SEEDED OR SEEDDED AND MULCHED AREAS SHALL BE ROLLED AND WATERED OR HYDROMULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. TEMPORARY GRASSING IN THE CONTRACT SPECIFICATIONS.

11. TEMPORARY REGRASSING: IF AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 15 PERCENT GOOD GRASS COVER, THE AREA WILL BE REMOVED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE GOOD VEGETATIVE COVER.

12. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.

13. PERMANENT EROSION CONTROL: THE CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.
14. PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION SHALL AS A MINIMUM BE SEEDDED WITH A MIXTURE THAT MUST PROVIDE BOTH LONG-TERM VEGETATION AND RAPID GROWTH. SEASONAL SEEDING: SLOPES STEEPER THAN 4:1 SHALL BE SEEDDED AND MULCHED OR SOILED.

STRUCTURAL PRACTICES

1. TEMPORARY DIVERSION DIKES: TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT-TRAPPING FACILITY.
2. TEMPORARY SEDIMENT TRAP: A SEDIMENT TRAP SHALL BE INSTALLED IN AN DRAINAGE WAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA. THE FOLLOWING SEDIMENT TRAPS MAY BE CONSTRUCTED EITHER INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION DIKE:
 - A. BLOCK & GRAVEL SEDIMENT FILTER: THIS PROTECTION IS APPLICABLE WHERE HEAVY FLOWS AND/OR WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE.
 - B. GRAVEL SEDIMENT TRAP: THIS PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCORPORATION OR DAMAGE TO ADJACENT STRUCTURE & UNPROTECTED AREAS.
 - C. DROP INLET SEDIMENT TRAP: THIS PROTECTION IS APPLICABLE WHERE THE INLET DRAWS A RELATIVELY FLAT AREA (3% TO 10%) WHERE SHEET OR OVERLAND FLOW (10 TO 0.5%) ARE TYPICAL. THIS METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH AS IN STREET OR HIGHWAY MEDIANS.

3. OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE FLOW COULD CAUSE EROSION AND SEDIMENT PROBLEMS TO THE RECEIVING WATER BODY. SILT FENCES AND HAY BALES ARE TO BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE DISCHARGING STRUCTURE AS SHOWN ON THE OUTLET PROTECTION DETAIL.

4. SEDIMENT BASIN: WILL BE CONSTRUCTED AT THE COMMON DRAINAGE LOCATIONS THAT SERVE AN AREA WITH 10 OR MORE DISTURBED ACRES AT ONE TIME. THE PROPOSED STORM WATER PONDS (OR TEMPORARY PONDS) WILL BE CONSTRUCTED FOR USE AS SEDIMENT BASIN. THESE SEDIMENT BASIN MUST PROVIDE A MINIMUM OF 3600 CUBIC FEET OF STORAGE PER ACRE DRAINAGE UNTIL FINAL STABILIZATION OF THE SITE. THE 3600 CUBIC FEET OF STORAGE AREA PER DRAINAGE DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS ON-SITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. A TEMPORARY SEDIMENT BASIN CONSTRUCTED MUST BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL FILL. ALL SEDIMENT COLLECTED IN PERMANENT OR TEMPORARY SEDIMENT TRAPS MUST BE REMOVED UPON FINAL STABILIZATION.

OTHER CONTROLS

WASTE DISPOSAL

WASTE MATERIALS

ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LINED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT. THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

HAZARDOUS WASTE

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. THE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

SANITARY WASTE

ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER SYSTEMS.

OFFSITE VEHICLE TRACKING

A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEP DAILY TO REMOVE ANY EXCESS MUD/DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE SITE WILL BE COVERED WITH A TARP/AULIN. (SEE DETAILS THIS SHEET)

INVENTORY FOR POLLUTION PREVENTION PLAN

THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ON-SITE DURING CONSTRUCTION:

- CONCRETE
- ASPHALT
- TAR
- DETERGENTS
- FERTILIZER
- WOOD
- PETROLEUM BASED PRODUCTS
- MASONRY BLOCKS
- CLEANING SOLVENTS
- PAINTS
- ROOFING MATERIALS
- METAL STUDS
-
-
-

SPILL PREVENTION

MATERIAL MANAGEMENT PRACTICES

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

GOOD HOUSEKEEPING

THE FOLLOWING 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 IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND/OR POSSIBLE UNDER A ROOF OR OTHER ENCLOSURE.

PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.

SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.

WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.

MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.

THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ON-SITE RECEIVE PROPER USE AND DISPOSAL.

HAZARDOUS PRODUCTS

THESE PRACTICES ARE USE 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 IF THEY CONTAIN IMPORTANT PRODUCT INFORMATION.

IF SURPLUS PRODUCT MUST BE DISPOSED OF BY MANUFACTURER'S OR LOCAL AGENCY RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

PRODUCT SPECIFIC PRACTICES: THE FOLLOWING PRODUCT SPECIFIC WILL BE FOLLOWED ON-SITE:

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 USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. APPLIED FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS

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 MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS. CONCRETE TRUCKS

CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH 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:

MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE 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 BE INCLUDED BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (1/4 KITTY LITTER OR EQUAL), SAND/SWIDUST, 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 VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL.

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.

THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ON-SITE.

MAINTENANCE/INSPECTION PROCEDURES

EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.

NO MORE THAN 10 ACRES OF THE SITE WILL BE DENIED AT ONE TIME WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.

ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOMEONE APPROVED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND FOLLOWING ANY STORM EVENT OF 0.25 INCHES OR GREATER.

ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.

BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.

SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT FENCE POSTS ARE FIRMLY IN THE GROUND.

THE SEDIMENT BASIN WILL BE INSPECTED FOR THE DEPTH OF SEDIMENT AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB, WHICHEVER COMES FIRST. OVERSTOCK DIKES/SWALES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.

TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.

A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. A REPORT SHALL BE COMPLETED BY HIS/HER INSPECTOR OR ENGINEER OF RECORD.

THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE OR LOCAL AGENCY APPROVING SEDIMENT AND EROSION PLANS, OR STORM WATER MANAGEMENT PLANS.

THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION IS SUBMITTED. THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE.

THE SITE SUPERINTENDENT WILL SELECT UP TO THREE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTION, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.

PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. THEY WILL BE TRAINED IN ALL INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ON-SITE IN GOOD WORKING ORDER.

NON-STORM WATER DISCHARGES IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:

WATER FROM WATER LINE FLUSHING

PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED).

UNCONTAMINATED GROUND WATER (FROM DEWATERING EXCAVATION).

CONTRACTOR'S CERTIFICATION

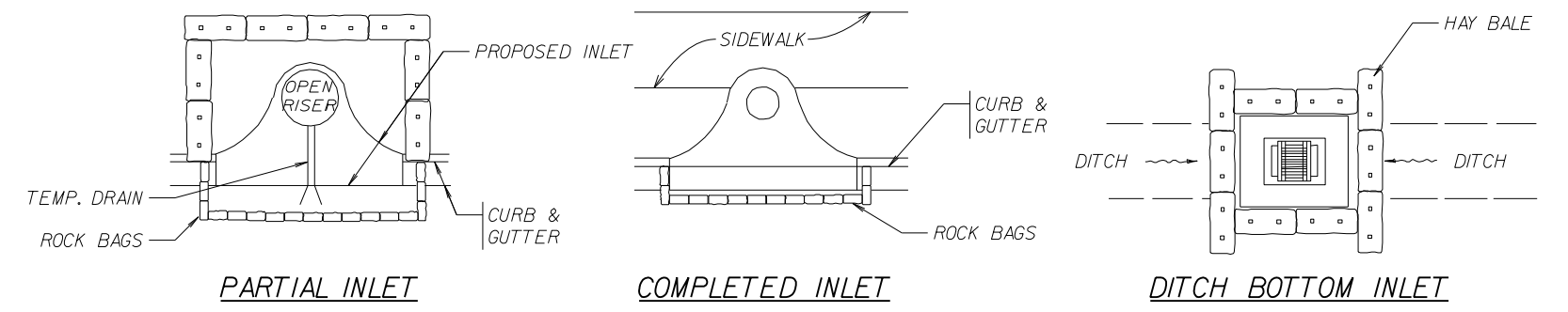
I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (GNDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

NOTES FOR SILT FENCES

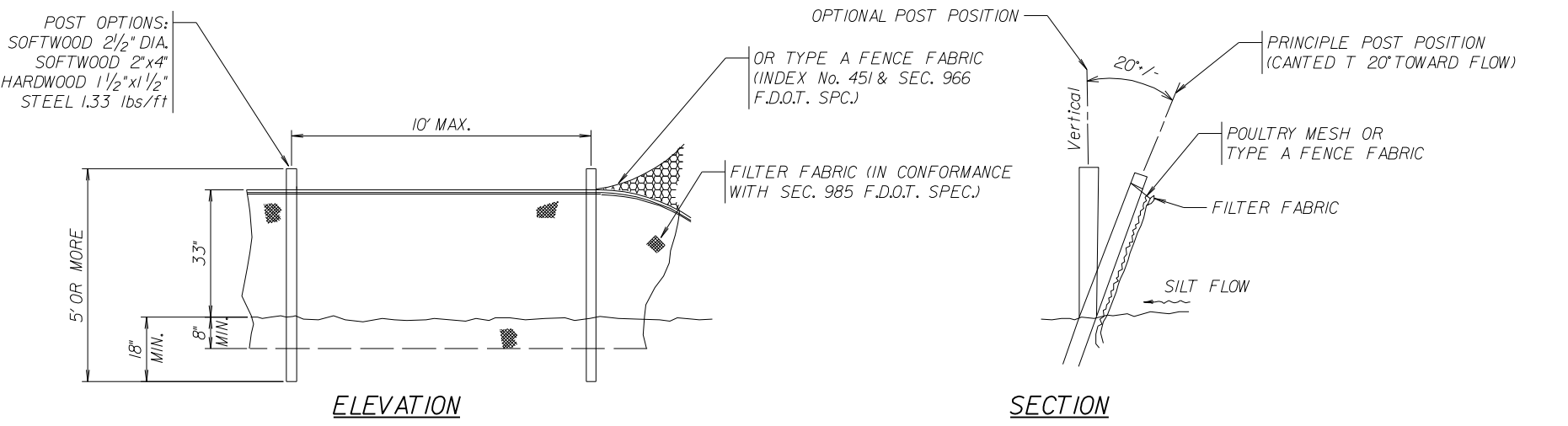
1. TYPE III SILT FENCE TO BE USED AT MOST LOCATIONS, WHERE USED IN DITCHES, THE SPACING FOR TYPE III SILT FENCE SHALL BE IN ACCORDANCE WITH CHART 1.
2. TYPE IV SILT FENCE TO BE USED WHERE LARGE SEDIMENT LOADS ARE ANTICIPATED. SUGGESTED USE IS WHERE FILL SLOPE IS 12 OR STEEPER AND LENGTH OF SLOPE EXCEEDS 25 FEET. AVOID USE WHERE THE DETAINED WATER MAY BACK INTO TRAVEL LANES OR OFF THE RIGHT OF WAY.
3. DO NOT CONSTRUCT SILT FENCES ACROSS PERMANENT FLOWING WATER COURSES. SILT FENCES ARE TO BE AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.
4. WHERE USED AS SLOPE PROTECTION, SILT FENCE IS TO BE CONSTRUCTED ON OR LONGITUDINAL GRADE TO AVOID CHANNELIZING RUNOFF ALONG THE LENGTH OF THE FENCE.
5. SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE, (U.F.).

NOTES FOR BALED HAY OR STRAW BARRIERS

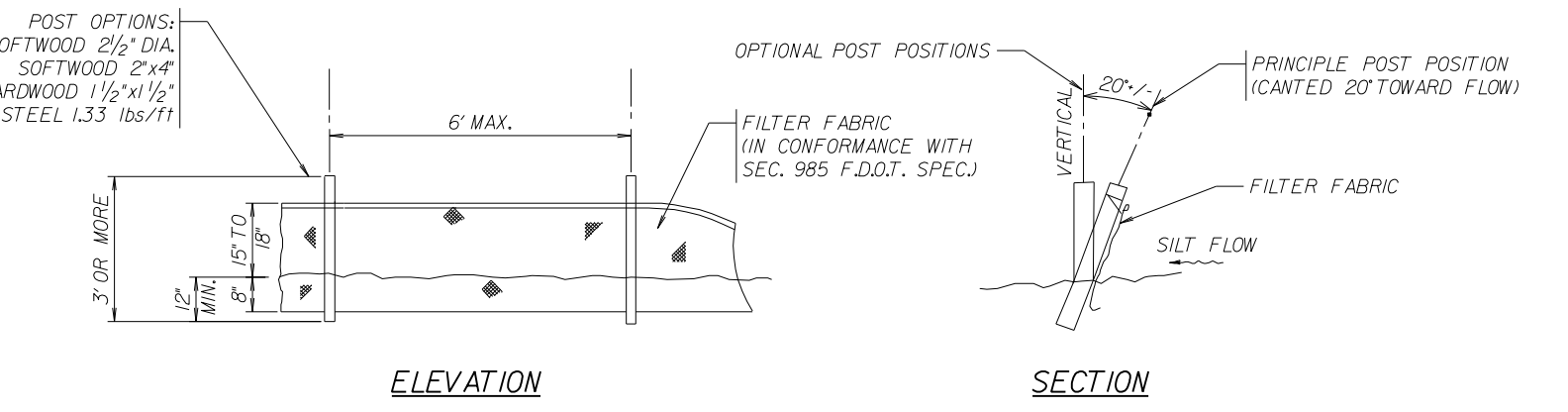
1. TYPE I AND II BARRIERS SHOULD BE SPACED IN ACCORDANCE WITH CHART 1.
2. HAY BALES SHALL BE TRENCHED 3" TO 4" AND ANCHORED WITH 2" X 2" OR 1" DIA X 4" WOOD STAKES. STAKES OF OTHER MATERIAL OR SHAPE PROVIDING EQUIVALENT STRENGTH MAY BE USED IF APPROVED BY THE ENGINEER. STAKES OTHER THAN WOOD SHALL BE REMOVED UPON COMPLETION OF THE PROJECT.
3. RAILS AND POSTS SHALL BE 2" X 4" WOOD, OTHER MATERIALS PROVIDING EQUIVALENT STRENGTH MAY BE USED IF APPROVED BY ENGINEER.
4. ADJACENT BALES SHALL BE BUTTED FIRMLY TOGETHER. UNAVOIDABLE GAPS SHALL BE PLUGGED WITH HAY OR STRAW TO PREVENT SILT FROM PASSING.
5. WHERE USED IN CONJUNCTION WITH SILT FENCE, HAY BALES SHALL BE PLACED ON THE UPSTREAM SIDE OF THE FENCE.
6. BALES TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR BALED HAY OR STRAW, E.A. THE UNIT PRICE SHALL INCLUDE THE COST OF FILTER FABRIC FOR TYPE I AND II BARRIERS. SAND BAGS SHALL BE PAID FOR UNDER THE UNIT PRICE FOR SANDBAGGING. CY. ROCK BAGS TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR ROCK BAGS, E.A.



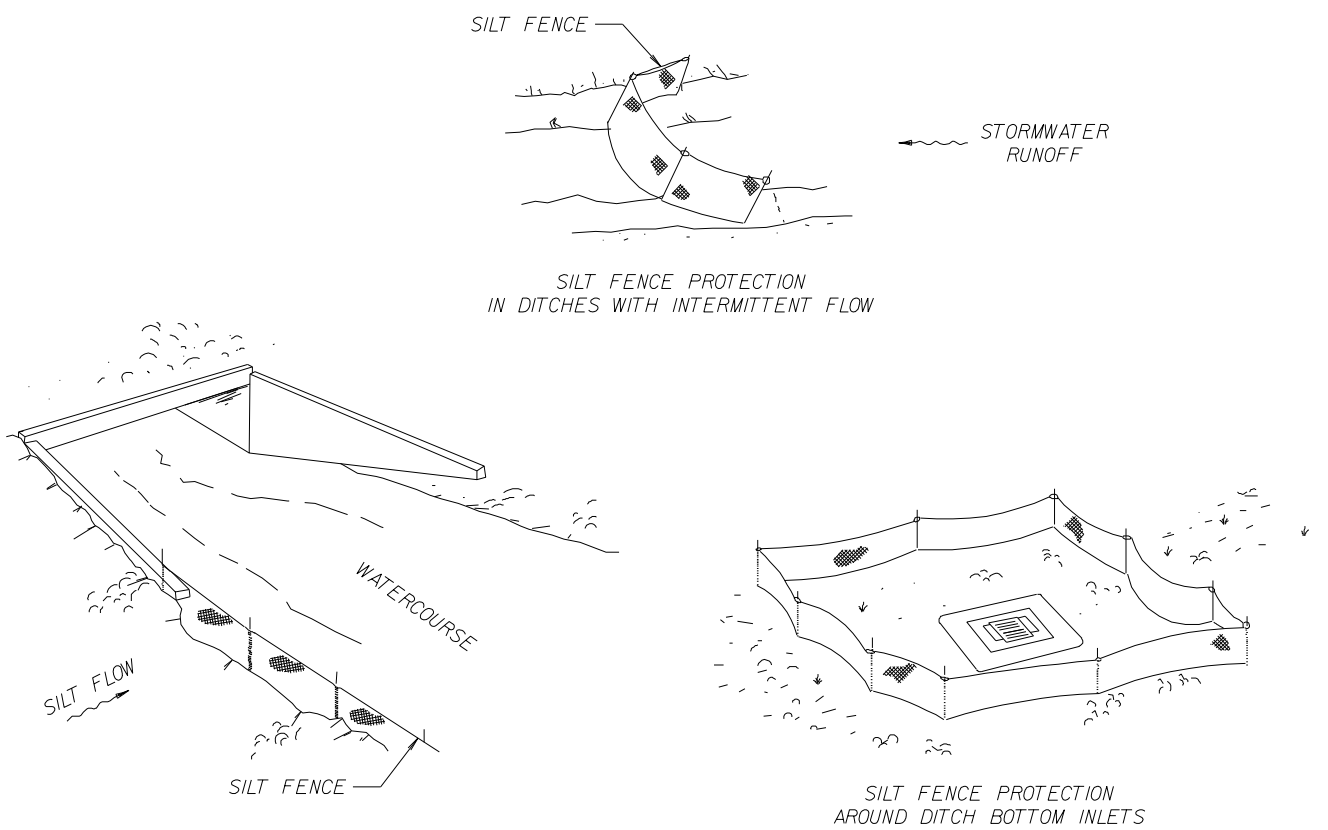
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



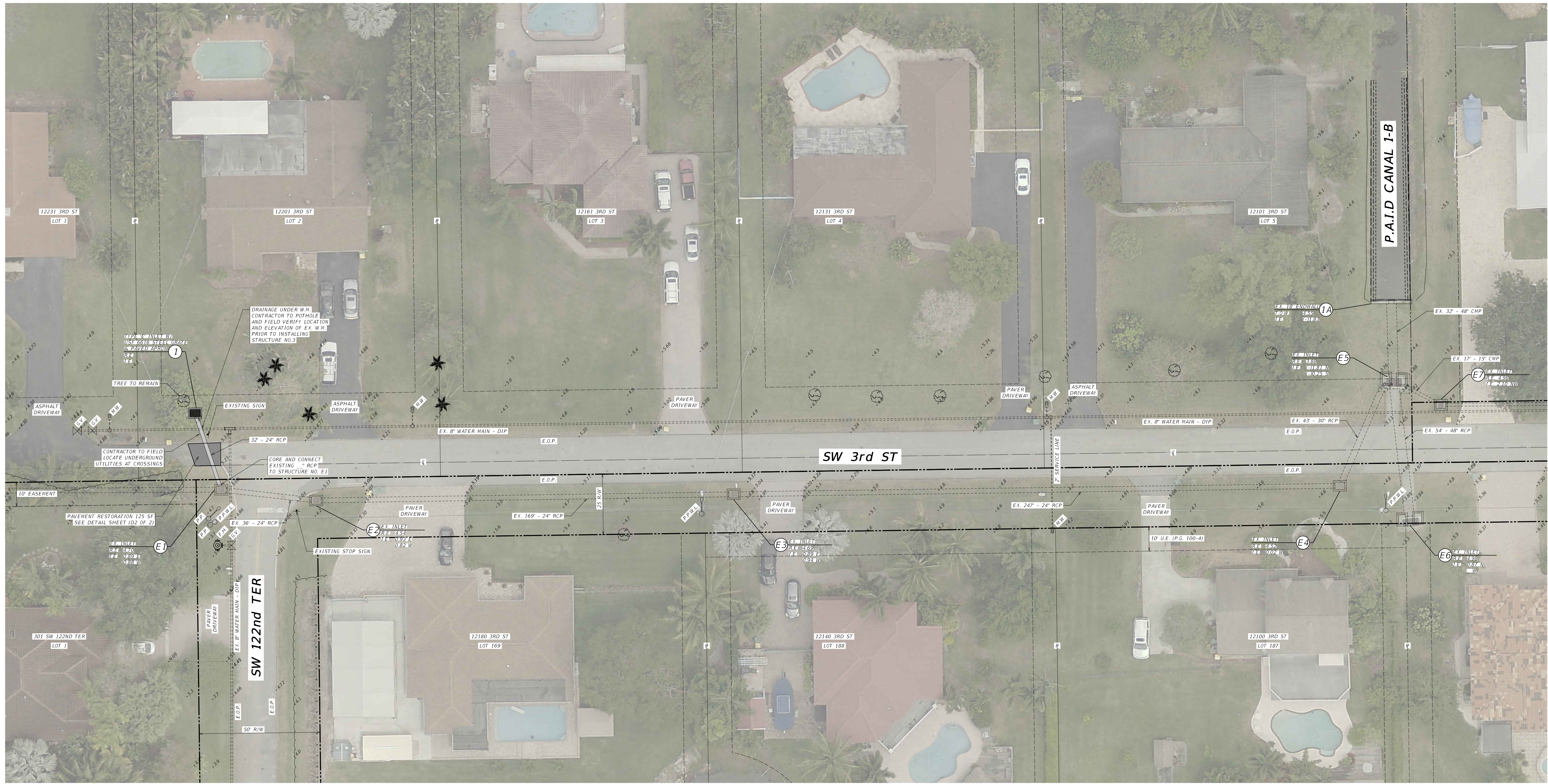
TYPE IV SILT FENCE



TYPE III SILT FENCE



SILT FENCE APPLICATIONS

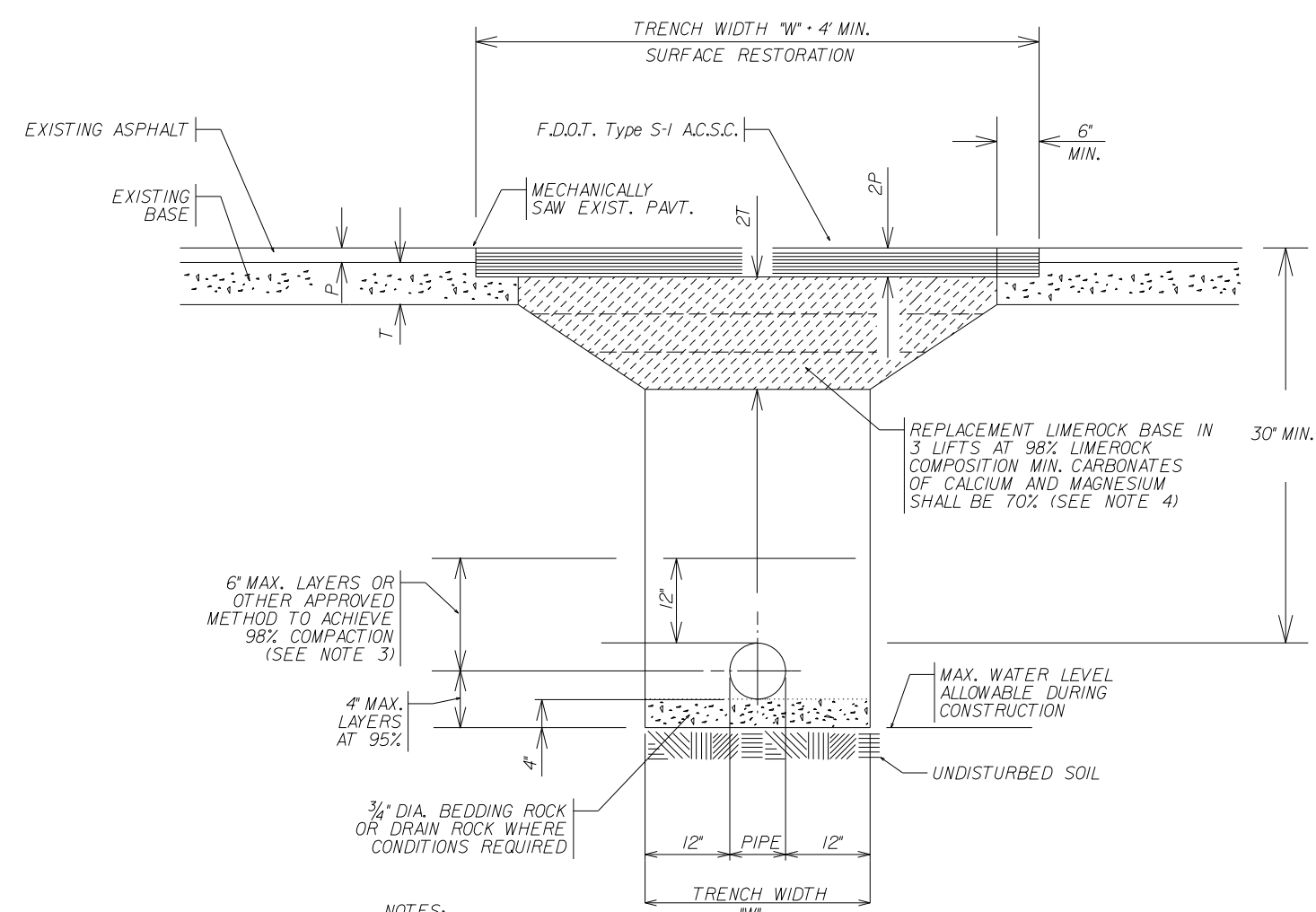


LEGEND	
	PROPOSED DRAINAGE PIPE
	DRAINAGE CENTER LINE
	DRAINAGE EASEMENT
	ROAD R/W
	CENTER LINE R/W
	EXISTING WATER MAIN
	EXISTING FENCE
	PROPERTY LINE
	EDGE OF WATER
	CONTOUR LINE
	DRIVEWAY/PAVEMENT
	OVERHEAD ELECTRIC
	BURIED TELEPHONE
	DRAINAGE STRUCTURE ID
	SEWER STRUCTURE ID
	CROSS-SECTION ID
	DETAIL SHEET ID
	TYPICAL TREE
	TYPICAL PALM
	VEGETATION LINE
	TYPICAL HEDGE
	PAVEMENT RESTORATION
	PROPOSED INLET
	EXISTING INLET
	PROPOSED END SECTION
	EXISTING END SECTION
	REMOVE LANDSCAPING
	REMOVE FENCE
	EXISTING SEWER
	WATER METER
	POWER POLE WITH LIGHT
	POWER POLE
	PROPOSED POWER POLE
	CENTER LINE
	EXISTING ELEVATION
	PROPOSED GRADE
	REMOVE UTILITY

ABBREVIATIONS	
B.T.	BURIED TELEPHONE
C.L.	CENTER LINE
C.L.	CHAIN LINK
D.E.	DRAINAGE EASEMENT
D.W.E.	DESIGN WATER ELEVATION
E.O.P.	EDGE OF PAVEMENT
E.O.W.	EDGE OF WATER
F.D.T.	FLORIDA DEPARTMENT OF TRANSPORTATION
I.E.	INVERT ELEVATION
M.W.	WATER METER
N.A.M.D.	NORTH AMERICAN
V.D.	VERTICAL DATUM
O.E.	OVERHEAD ELECTRIC
O.R.B.	OFFICIAL RECORDS BOOK
P.A.I.D.	PLANTATION ACRES IMPROVEMENT DISTRICT
P.B.	PLAT BOOK
P.P.	POWER POLE
P.P.W.L.	POWER POLE WITH LIGHT
PROP.	PROPOSED
R.C.P.	REINFORCED CONCRETE PIPE
R.E.	RIM ELEVATION
R/W	RIGHT-OF-WAY
S.H.	SPRINKLER HEAD
T.D.W.	TOP OF WALL
TYP.	TYPICAL
U.E.	UTILITY EASEMENT
USF	U.S. FOUNDRY
W.M.	WATER MAIN

- NOTES:**
- CONTRACTOR TO NOTIFY UTILITY COMPANIES PRIOR TO DRAINAGE SYSTEM INSTALLATIONS. UNDERGROUND UTILITIES TO INCLUDE FLORIDA POWER AND LIGHT, BELLSOUTH (AT&T), COMCAST CABLE AND PLANTATION UTILITIES.
 - PIPE LENGTHS SHOWN ARE COMPUTED TO THE CENTER OF THE INLET/MANHOLE.
 - MINOR ADJUSTMENTS SHOULD BE MADE TO THE LOCATION OF NEW DRAINAGE TO AVOID CONFLICTS, WITH THE APPROVAL OF THE ENGINEER.
 - CONTRACTOR TO PROVIDE A MAINTENANCE OF TRAFFIC (MOT) PLAN.
 - CONTRACTOR TO CONTACT THE CITY OF PLANTATION PUBLIC WORKS DEPARTMENT TO COORDINATE MINIMUM DISRUPTIONS TO THE GARBAGE COLLECTION SERVICE.
 - PRIOR TO EXCAVATION, CONTRACTOR SHALL RUN THE PRIVATE IRRIGATION SYSTEMS AND RECORD THE LOCATION OF ALL SPRINKLER HEADS FOR PROPER RESTORATION.
 - WATER SERVICE LINES IMPACTED BY CONSTRUCTION ACTIVITIES SHALL BE REPAIRED, REPLACED, AND/OR RELOCATED AS REQUIRED WITHOUT PROLONGED INTERRUPTION OF SERVICE. NO NEW TAPS ARE ALLOWED WITHOUT PRIOR APPROVAL FROM PLANTATION UTILITIES DEPARTMENT.
 - COORDINATE FENCE RELOCATION WITH DISTRICT STAFF NO LESS THAN 3 WEEKS PRIOR SCHEDULED CONSTRUCTION.
 - ANY TREES, BUSHES AND SHRUBS IN THE IMMEDIATE VICINITY OF THE EXCAVATION FOR THE DRAINAGE WORKS SHALL BE REMOVED TO GROUND LEVEL BY THE DISTRICT STAFF.
 - ALL ROOTS, ROOT BALLS, OR STUMPS IMPACTING THE EXCAVATION FOR THE DRAINAGE WORKS SHALL BE REMOVED BY THE CONTRACTOR, AS REQUIRED.





- NOTES:
- WHERE SOIL CONDITIONS CANNOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE APPROVED METHOD OF CONSTRUCTION.
 - SHEETING WILL BE REQUIRED AS DETERMINED IN THE FIELD.
 - BASE MATERIAL SHALL BE PLACED IN 6" MAXIMUM LAYERS AND EACH LAYER THOROUGHLY COMPACTED TO 98% OF MAXIMUM DENSITY PER AASHTO T-99.
 - BASE MATERIAL SHALL HAVE A MINIMUM LBR OF 100 AND A MINIMUM CARBONATE CONTENT OF 70%.
 - SUBGRADE MATERIAL SHALL BE GRANULAR AND AND SHALL HAVE A MINIMUM LBR OF 40.
 - SURFACE MATERIAL SHALL BE F.D.D.T. TYPE S-1 AC.S.C.
 - SURFACE PAVEMENT JOINTS SHALL BE BUTT JOINT.
 - CUTS ACROSS ROADS SHALL NOT BE LEFT OPEN OVER NIGHT UNLESS ABSOLUTELY NECESSARY. TRENCHES SHALL BE BACKFILLED AND TEMPORARY ASPHALT APPLIED TO MAKE A SMOOTH LEVEL PATCH. THE TRENCHES SHALL THEN BE EXCAVATED THE NEXT DAY AND PERMANENT BACKFILL AND PAVEMENT INSTALLED IN ACCORDANCE WITH THESE STANDARDS.
 - DENSITY TESTS OF COMPACTED FILL, BACKFILL AND/OR BASE SHALL BE TAKEN AT EACH 6" LIFT, PRIOR TO PLACEMENT OF THE SUCCEEDING LIFT OF MATERIAL ACCORDING TO THE FOLLOWING SCHEDULE:
 - FOR ANY ROAD CROSSING IN WHICH THE ROAD IS CUT AND RESTORED ONE LANE AT A TIME, ONE DENSITY TEST SHALL BE TAKEN IN EACH LANE AT EACH 6" LIFT.
 - FOR ANY ROAD CROSSING IN WHICH THE ROAD IS CUT AND RESTORED TWO LANES AT A TIME, DENSITIES SHALL BE TESTED IN ONE LANE PER LIFT, ALTERNATING LANES WITH EACH LIFT.
 - THE CONTRACTOR SHALL FURNISH A BOND IN AN AMOUNT ACCEPTABLE TO THE CITY ENGINEER TO GUARANTEE COMPLETION OF WORK WITHIN THE APPROVED TIMEFRAME.
 - ALL PROCTOR AND FIELD DENSITY TESTS SHALL BE PERFORMED BY A CERTIFIED TESTING LABORATORY APPROVED BY THE CITY AND A COPY OF ALL TEST SHALL BE FURNISHED TO THE ENGINEERING DEPARTMENT.
- NOTE: THE ABOVE LISTED REPRESENTS THE MINIMUM PROCEDURE. THE INSPECTOR MAY REQUIRE ADDITIONAL TESTING IF, IN HIS/HER OPINION, CONDITIONS OR PRIOR TEST RESULTS WARRANT THEM.

(DRAWN AREAS)

TRENCH DETAIL

GENERAL NOTES:

SPECIFIED TREE ROOT BARRIERS ARE A MECHANICAL BARRIER AND ROOT DEFLECTOR TO PREVENT TREE ROOTS FROM DAMAGING HARDSCAPES AND LANDSCAPES. ASSEMBLED IN 2' LONG MODULES TO CREATE VARYING SIZES OF CYLINDERS FOR SURROUNDING ROOT BALLS (SURROUND PLANTING STYLE) OR FOR LINEAR APPLICATIONS DIRECTLY BESIDE A HARDSCAPE ADJACENT TO ONE SIDE OF THE TREES (LINEAR PLANTING STYLE).

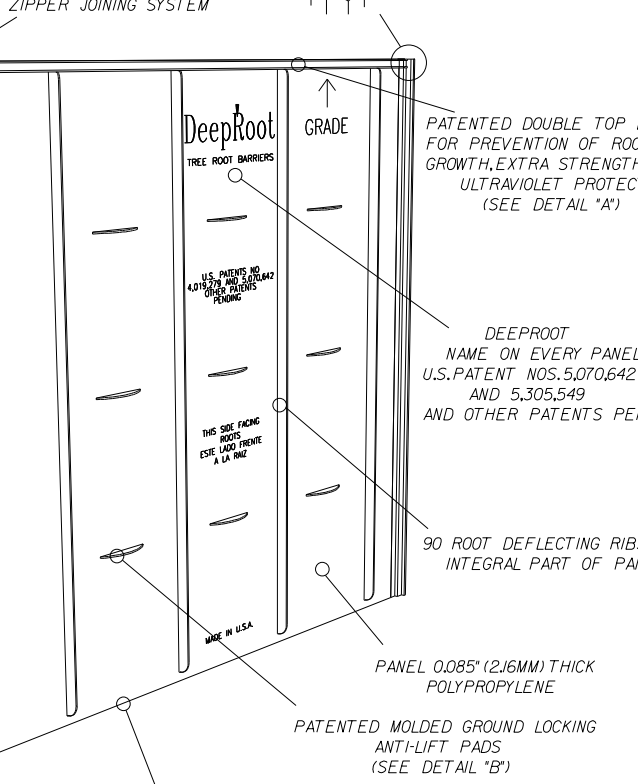
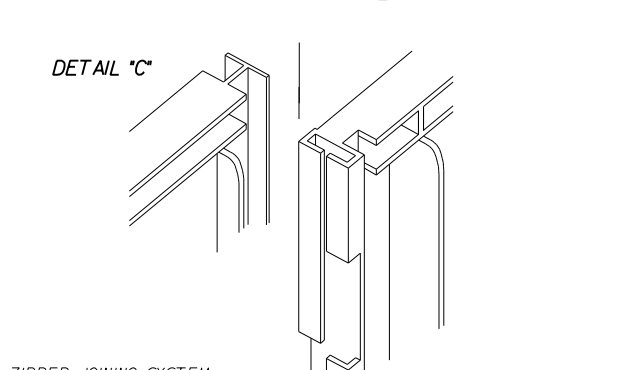
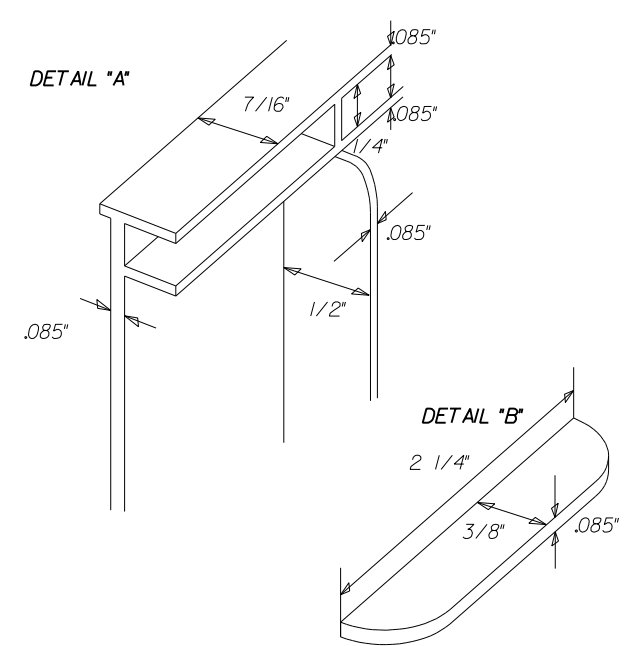
A. MATERIALS
 1. THE CONTRACTOR SHALL FURNISH AND INSTALL TREE ROOT BARRIERS AS SPECIFIED. THE TREE ROOT BARRIERS SHALL BE PRODUCT # UB 24-2 AS MANUFACTURED BY DEEP ROOT PARTNERS, L.P. 345 LORTON AVE. #03, BURBINGAME, CA 94608-7688 OR APPROVED EQUAL.
 THE BARRIER SHALL BE BLACK, INJECTION MOLDED PANELS OF 0.085" WALL THICKNESS IN MODULES 24" LONG BY 24" DEEP, MANUFACTURED WITH A MINIMUM 50% POST CONSUMER RECYCLED POLYPROPYLENE PLASTIC WITH ADDED ULTRAVIOLET INHIBITORS, RECYCLABLE. EACH PANEL SHALL HAVE:
 NOT LESS THAN 4 MOLDED INTEGRAL VERTICAL ROOT DEFLECTING RIBS OF AT LEAST 0.085" THICKNESS PROTRUDING 1/2" AT 90° FROM INTERIOR OF THE BARRIER PANELS, SPACED 6" APART (SEE PANEL DRAWING BELOW).
 A DOUBLE TOP EDGE CONSISTING OF TWO PARALLEL INTEGRAL HORIZONTAL RIBS AT THE TOP OF THE PANEL OF A MINIMUM 0.085" THICKNESS, 7/16" WIDE AND 1/4" APART WITH THE LOWER RIB ATTACHED TO THE VERTICAL ROOT DEFLECTING RIBS (SEE DETAIL 'A').
 A MINIMUM OF 9 ANTI-LIFT GROUND LOCK TABS CONSISTING OF INTEGRAL HORIZONTAL RIDGES OF A MINIMUM 0.085" THICKNESS JOINING THE PANEL WALL AND THE SEGMENT, PROTRUDING 3/8" FROM THE PANEL. THE NINE GROUND LOCKS ON EACH PANEL SHALL BE ABOUT EQUALLY SPACED BETWEEN EACH OF THE VERTICAL ROOT DEFLECTING RIBS 13 BETWEEN EACH SET OF RIBS (SEE DETAIL 'B').
 AN INTEGRATED ZIPPER JOINING SYSTEM PROVIDING FOR INSTANT ASSEMBLY BY SLIDING ONE PANEL INTO ANOTHER (SEE DETAIL 'C').

B. CONSTRUCTION AND INSTALLATION
 1. THE CONTRACTOR SHALL INSTALL THE TREE ROOT BARRIERS WITH THE NUMBER OF PANELS AND IN THE MANNER SHOWN ON THE DRAWINGS. THE VERTICAL ROOT DEFLECTING RIBS SHALL BE FACING INWARDS TO THE ROOT BALL AND THE TOP OF THE DOUBLE EDGE SHALL BE 1/2" ABOVE GRADE. EACH OF THE REQUIRED NUMBER OF PANELS SHALL BE CONNECTED TO FORM A CIRCLE AROUND THE ROOT BALL OR WHERE SPECIFIED JOINED IN A LINEAR FASHION AND PLACED ALONG THE ADJACENT HARDSCAPE.
 2. EXCAVATION AND SOIL PREPARATION SHALL CONFORM TO THE DRAWINGS.
 3. THE TREE ROOT BARRIERS SHALL BE BACKFILLED ON THE OUTSIDE WITH 3/4" TO 1 1/2" GRAVEL OR CRUSHED ROCK AS SHOWN ON THE DRAWINGS. NO GRAVEL BACKFILL IS REQUIRED FOR A LINEAR PLANTING

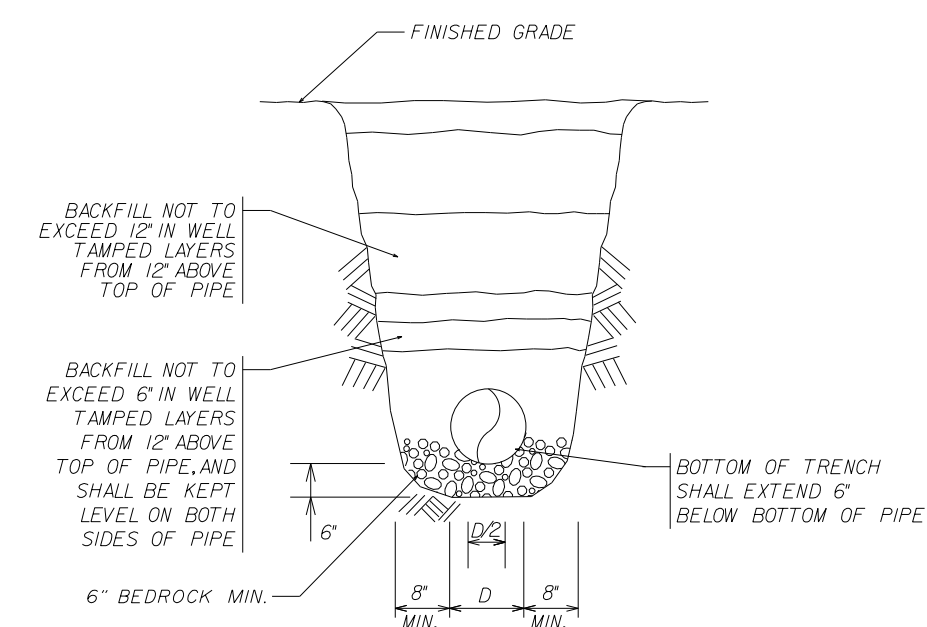
2. THE BASIC PROPERTIES OF THE MATERIAL SHALL BE:

TEST	ASTM TEST METHOD	VALUE COPOLYMER POLYPROPYLENE
TENSILE STRESS @ YIELD	D638	3800 PSI
ELONGATION @ YIELD	D638	6.5%
FLEXURAL MODULUS	D790B	155,000 PSI
NOTCHED IZOD IMPACT	D256A	7J
ROCKWELL HARDNESS, R SCALE D785A		68

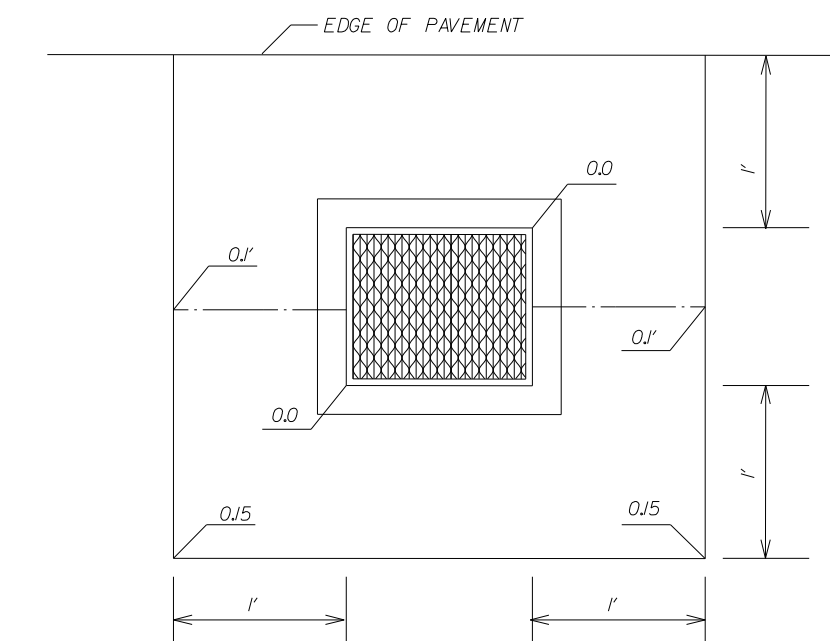
U.S. PATENTS: 5,305,549 AND 5,070,642. OTHER PATENTS PENDING.



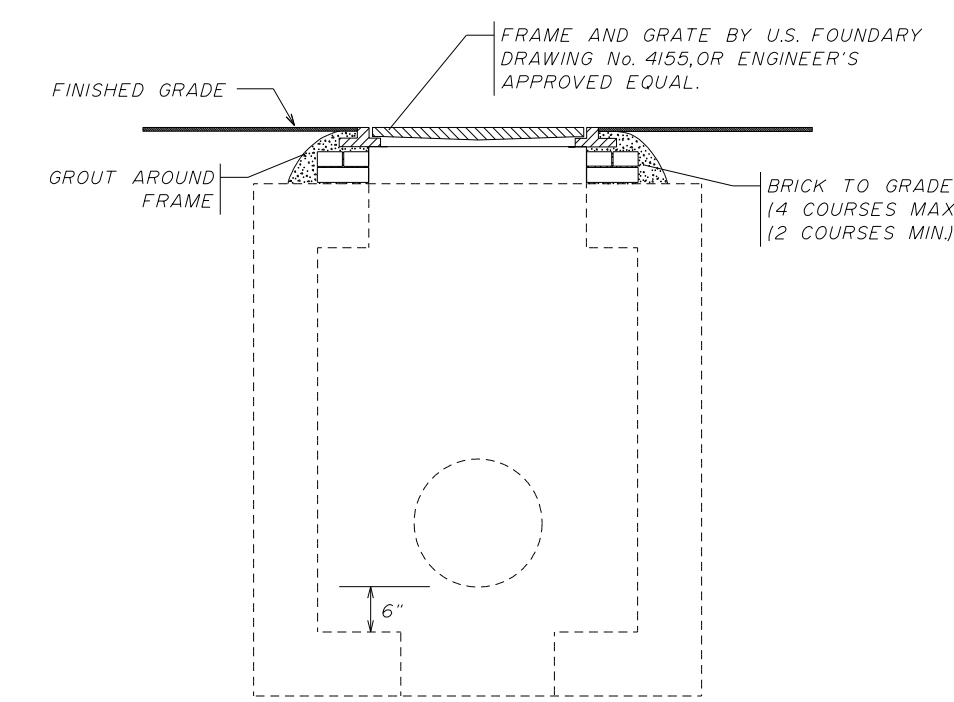
24" DEEPROOT TREE ROOT BARRIERS



PIPE BEDDING DETAIL



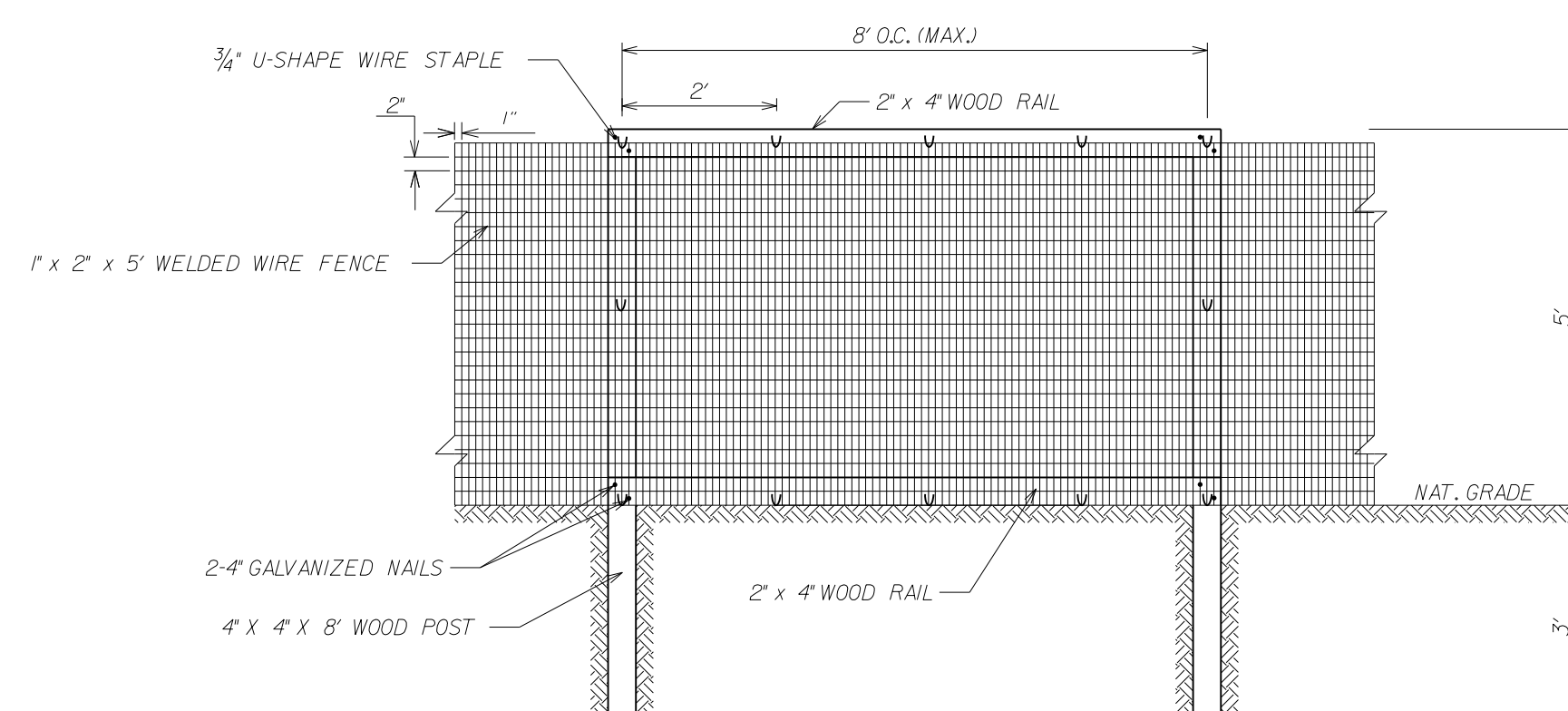
ASPHALT APRON DETAIL



NOTE: 18" X 18" SUMP TO BE INSTALLED WHEN INLET BOTTOM IS ABOVE WATER TABLE. SUMP NOT REQUIRED THIS PROJECT.

NOTE: SEE CONSTRUCTION PLANS FOR BASIN TYPE B F.D.D.T. "ROADWAY AND TRAFFIC DESIGN STANDARDS, LATEST REVISION FOR DETAILS THIS PROJECT."

PRECAST INLET DETAIL



TEMPORARY FENCING DETAIL

FENCING NOTES:

- WELDED WIRE FENCING SHALL BE 1"x2" GRID, 5' IN HEIGHT. WIRE SHALL BE MINIMUM 12 GAUGE GALVANIZED STEEL.
- CORNER AND LINE POSTS SHALL BE WOOD (4"X4"X8') No.2 GRADE OR BETTER EMBEDDED 3' INTO THE GROUND. SPACING SHALL BE 8' MAX. BETWEEN POSTS.
- TOP AND BOTTOM RAILS SHALL BE WOOD No.2 GRADE OR BETTER FASTENED TO CORNER AND LINE POSTS BY 4" GALVANIZED NAILS, DIAGONALLY PLACED.
- WIRE STAPLES SHALL BE 3/4" LENGTH, 12 GAUGE, CORROSION RESISTANT, SPACED 2' APART WHEN FASTENING WIRE FENCING TO TOP AND BOTTOM WOOD RAILS.
- FENCING SEQUENCE SHALL BEGIN WITH INSTALLING WOOD POSTS, TOP AND BOTTOM RAILS, FOLLOWED BY WIRE FENCE TO POSTS USING WIRE STAPLES.
- BOTTOM OF FENCE TO FOLLOW THE NATURAL CONTOUR OF THE LAND.
- CONTRACTOR TO VERIFY ALL MATERIALS WITH F.B.C. PRIOR TO FENCE INSTALLATION.

NO.	REVISIONS	DATE	NO.	REVISIONS	DATE

DESIGNED BY:	BMP	DATE:	10/2023
DRAWN BY:	AFA	DATE:	10/2023
CHECKED BY:	BMP	DATE:	11/2023

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SW 3rd ST & SW 122nd AVE
 PLANTATION ACRES IMPROVEMENT DISTRICT

DRAINAGE IMPROVEMENTS
DETAILS

PUBLISHED:	12/14/2023, 3:26:22 PM
PROJECT NUMBER	D2308.06
SHEET	D2 OF 2

811
 Know what's below.
 Call before you dig.

ENGINEER'S STAFF REPORT
FOR December 14, 2023 MEETING
AGENDA ITEM No.: D4

Action Required: Update

Item Description: PAID Drainage Improvements Projects
Prepare Engineering Plans and Provide Surveying Services

P.A.I.D. Number: D2301.01

Attachments: None

Summary: The Board previously authorized the engineer to proceed with providing surveying services and for the preparation of engineering plans for the projects based on the highest priority within the District. The projects below are still in progress:

- SW 118th Ave. Drainage Improvements (D2308.04-2)
- NW 12 St & NW 122nd Ave Improvements (D2308.05)

Surveying has been completed for the above projects and preliminary construction plans will be ready for the January Board meeting.

Recommendation: N/A

Comments: _____

Prepared by: BMP Date: 12/07/23

ENGINEER'S STAFF REPORT
FOR December 14, 2023 MEETING
AGENDA ITEM No.: D5

Action Required: Discussion

Item Description: Permit Activity Summary

P.A.I.D. Number: D9408.02 & D9408.03

Attachments: None

Summary: Approved Building Permits

<u>No.</u>	<u>Name</u>	<u>Address</u>	<u>PAID No.</u>
1.	McLendon (Fence)	12301 SW 2 nd Street	B0105.03
2.	Shemtov (Shed)	11401 NW 17 th Street	B1007.05
3.	Bohl (Generator)	11800 NW 5 th Street	B0611.01
4.	Thelusma (Pool Patio Deck Replacement)	12380 NW 28 th Court	B0110.06
5.	Cedeno (Paver Driveway)	12040 SW 3 rd Street	B9608.04
6.	Foschiatti (Fill)	11321 NW 19 th Court	B1007.02
7.	Eliz Real Estate Group LLC (Fence)	1751 NW 118 th Avenue	B9312.07
8.	Friden (Driveway)	12881 NW 8 th Street	B9409.01
9.	Gil (Pergola)	11651 NW 17 th Court	B9106.02
10.	Manning (Patio Demolition)	11551 SW 3 rd Street	B0610.05
11.	Wilson-Romans (Fence)	1501 NW 115 th Terrace	B1011.02
12.	Talpos (Generator & Underground Tank)	12200 NW 18 th Street	B0108.10
13.	Rhino Homes LLC (Clearing & Filling)	11300 NW 4 th Street	B9507.06
14.	Rybalka (Generator)	1051 NW 114 th Avenue	B9608.05
15.	Azar (Clearing)	561 SW 113 th Avenue	B2311.01
16.	Louima Properties Inc (House)	11700 NW 17 th Place	B2307.03
17.	Louima Properties Inc (House)	11740 NW 17 th Place	B1802.01
18.	Louima Properties Inc (House)	11780 NW 17 th Place	B1802.03
19.	Wilkins (Artificial Turf)	11501 NW 26 th Street	B0109.03

Summary: Certificates of Occupancy

1.	Yocom (Garage Addition)	11601 NW 20 th Street	B8803.17
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Prepared by: CJF Date: 12/07/2023

ENGINEER'S STAFF REPORT
 FOR December 14, 2023 MEETING
AGENDA ITEM No.: D6

Action Required: Discussion

Item Description: Notices of Violation
Summary

P.A.I.D. Number: D9611.01

Attachments: None

Summary: The following is a summary of the existing violations.

Name	Address	Violation	Status
GENDLER (V2209.03)	11400 NW 26 TH STREET	LANDSCAPE IN CANAL MAINTENANCE EASEMENT	FINAL NOTICE
OCAMPO (V2209.04)	11350 NW 26 TH STREET	LANDSCAPE IN CANAL MAINTENANCE EASEMENT	FINAL NOTICE
DESANTIS (V2301.01)	12121 NW 11 TH STREET	LANDSCAPE IN CANAL EASEMENT	NOTIFIED
SHAH (V2302.02)	12121 NW 5 TH COURT	LANDSCAPE / PLANTING IN CANAL EASEMENT	FINAL NOTICE
MARTIN (V2306.02)	11350 NW 8 TH STREET	CONSTRUCTION WITHOUT PERMIT	FINAL NOTICE
NARA (V2308.01)	1101 NW 122 ND AVENUE	LANDSCAPE IN DRAINAGE EASEMENT	IN PROCESS OF COMPLYING
LAKHANI (V2309.01)	11251 NW 14 TH STREET	FILL WITHOUT PERMIT	IN PROCESS OF COMPLYING
SAVAGE (V2309.02)	11811 NW 24 TH STREET	FILL WITHOUT PERMIT	IN PROCESS OF COMPLYING
RAMRATTAN (V2309.03)	11741 NW 11 TH STREET	FILL WITHOUT PERMIT	IN PROCESS OF COMPLYING
BUCCHUS (V2309.04)	1460 NW 114 TH AVENUE	CONSTRUCTION WITHOUT PERMIT	IN PROCESS OF COMPLYING
WEHBY (V2309.06)	2800 NW 120 TH AVENUE	CONSTRUCTION WITHOUT PERMIT	IN PROCESS OF COMPLYING
WILKINS (V2312.01)	11501 NW 26 TH STREET	FILL WITHOUT PERMIT	IN PROCESS OF COMPLYING
CONNERS / BURSEY (V0409.02)	11620 NW 6 TH STREET	LANDSCAPE IN CANAL MAINTENANCE EASEMENT	NOTIFIED
MOSQUERA (V2311.01)	11901 NW 18 TH COURT	CONSTRUCTION WITHOUT PERMIT	NOTIFIED