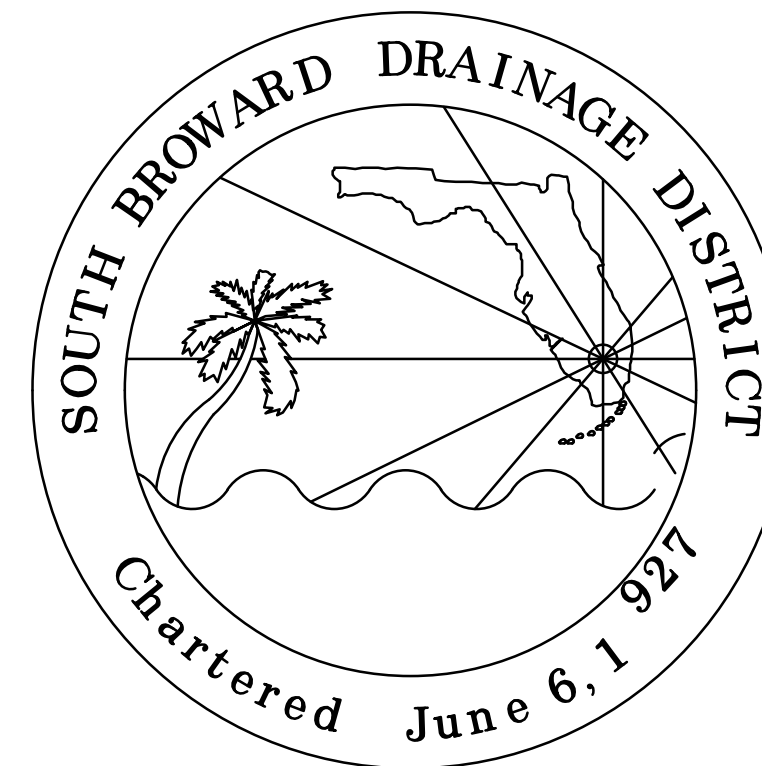


TOWN OF SOUTHWEST RANCHES, FLORIDA  
DRAINAGE IMPROVEMENTS FOR GREEN MEADOWS DYKES ROAD DRAINAGE  
IFB NO. 22-006

**EXHIBIT A – DRAWINGS**

# TOWN OF SOUTHWEST RANCHES & SOUTH BROWARD DRAINAGE DISTRICT S.W. 54th PLACE/DYKES ROAD DRAINAGE IMPROVEMENTS

TOWN OF SOUTHWEST RANCHES  
13400 GRIFFIN ROAD  
SOUTHWEST RANCHES, FLORIDA 33330



SOUTH BROWARD DRAINAGE DISTRICT  
6591 SW 160th AVE.  
SOUTHWEST RANCHES, FLORIDA 33331



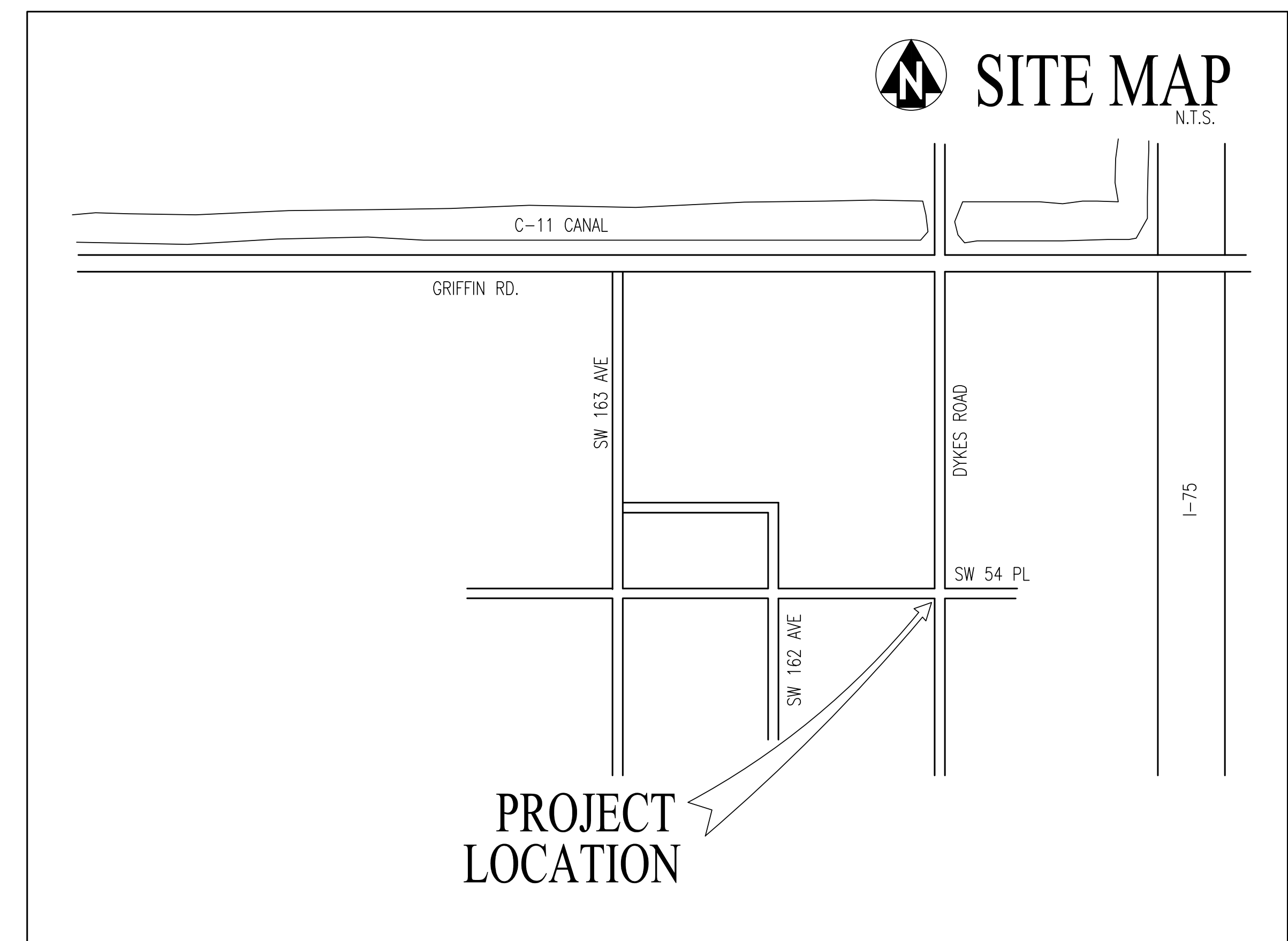
Know what's below.  
Call before you dig.

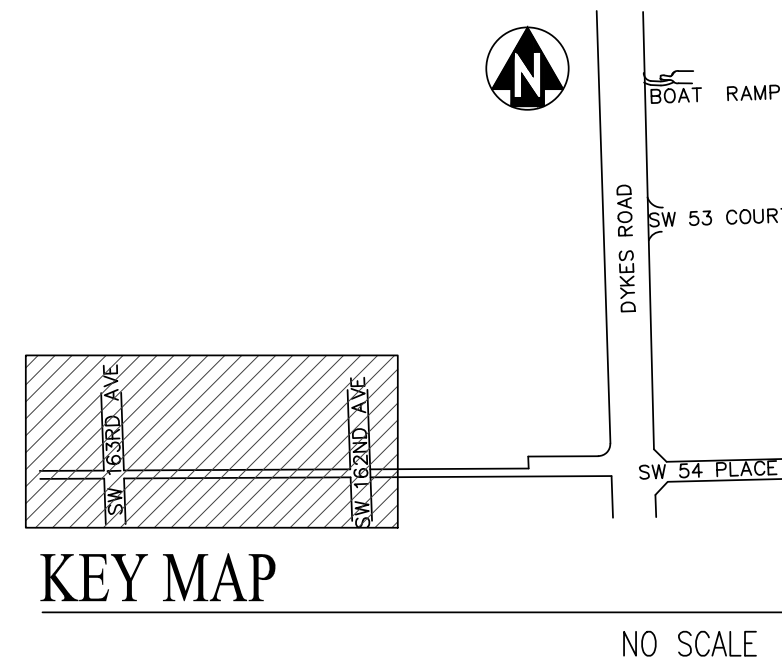
## DRAWING INDEX:

COVER SHEET	
54 Pl & Dykes Rd PAVING & DRAINAGE PLAN 1	- 1
54 Pl & Dykes Rd PAVING & DRAINAGE PLAN 2	- 2
54 Pl & Dykes Rd PAVING & DRAINAGE PLAN 3	- 3
54 Pl & Dykes Rd PAVING & DRAINAGE PLAN 4	- 4
54 Pl & Dykes Rd EROSION CONTROL PLAN 1	- 5
54 Pl & Dykes Rd EROSION CONTROL PLAN 2	- 6
54 Pl & Dykes Rd EROSION CONTROL PLAN 3	- 7
54 Pl & Dykes Rd EROSION CONTROL PLAN 4	- 8
PAVING & DRAINAGE DETAILS	- 9
EROSION CONTROL DETAILS	- 10
SURVEY	- 11

## TOWN OF SOUTHWEST RANCHES COUNCIL:

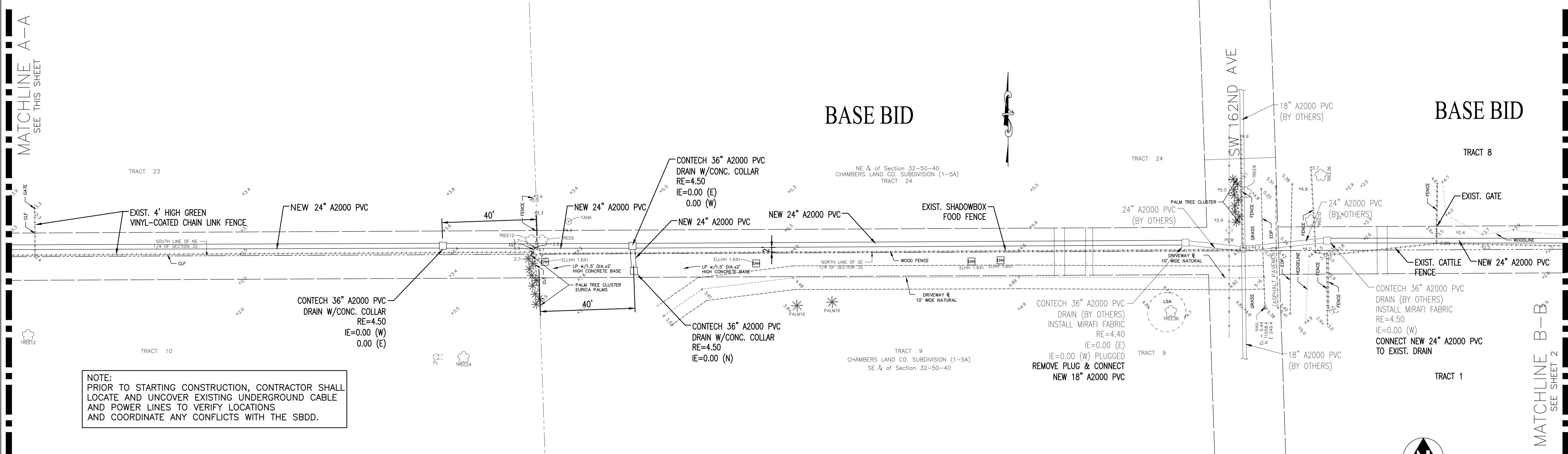
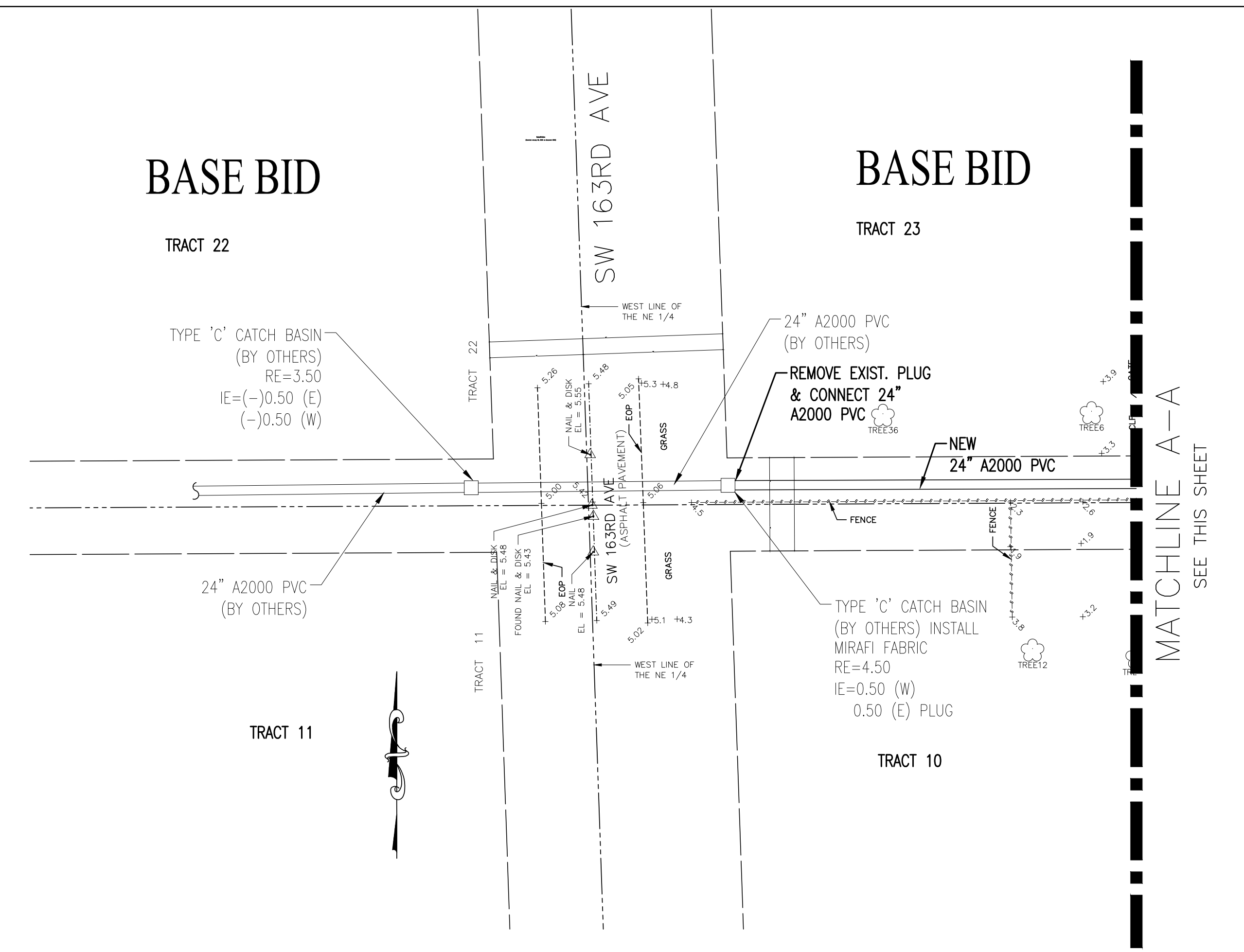
Steve Breikrevz (Mayor)  
Gary Jablonski (Council Member)  
Jim Allbritton (Council Member)  
David Kuczenski (Council Member)  
Robert Hartman (Council Member)





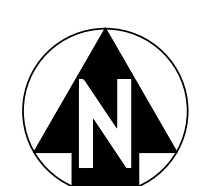
NOTES:

1. See Soils Report prepared by EastCoast Testing & Engineering, Inc, dated April 25, 2017 for locations and data on existing subsurface conditions, including the depth and hardness of the underlying soils.
2. There shall be no Change Orders or additional payments under this contract due to the hardness of the underlying rock or the depth to the water table. The Contractor shall perform any site investigations and obtain any additional information as they deem necessary to determine the extent of the work and equipment required to excavate the canal and to install the drainage culverts and structures as indicated in the Contract Documents.
3. See topographic survey prepared by Baxter & Woodman, Consulting Engineers, dated February, 2021, for information and data on existing ground elevations.
4. All existing trees within the limits of construction shall be removed by the Contractor, as necessary.
5. The existing fencing within the limits of construction shall be removed by the Contractor as needed to complete the project. Any existing fencing removed by the Contractor shall be replaced to a condition equal to or better than before this project.
6. All elevations shown on this plan are based on the North American Vertical Datum of 1988 (NAVD 88). The conversion from North American Vertical Datum of 1988 (NAVD 88) to the National Geodetic Vertical Datum of 1929 (NGVD 29) is: NAVD'88 = NGVD'29 - 1.51'
7. Contractor shall verify the location, size, material, and depth of all existing underground utility lines prior to beginning the work.
8. Contractor shall exercise extreme caution when working under and around existing overhead electric lines. Contractor shall notify and coordinate with FPL on any safety or other issues regarding overhead power lines.
9. Contractor shall coordinate with FPL, as necessary, to secure any existing power poles in the vicinity of the proposed construction work. The cost to secure any existing power poles shall be included in the lump price for the project.
10. Contractor shall submit a Maintenance of Traffic (MOT) Plan to the Town of Southwest Ranches for approval for any impacts to the flow of traffic on local roads, including Dykes Road, SW 162<sup>nd</sup> Avenue, or SW 163<sup>rd</sup> Avenue.
11. All excess fill from the drainage installation shall be removed from the site by the Contractor.
12. The limits of the Project area shall be restored with sod that matches the surrounding sod. Contractor shall be responsible for watering of the sod until final acceptance of the work.
13. Contractor shall be responsible to completely restore the limits of construction including, but not limited to, sod, irrigation, fencing, concrete aprons, and pavement.
14. Any required density tests or material testing shall be paid for by the Contractor.
15. All required survey layouts and as-built surveys shall be paid for by the Contractor.
16. Contractor shall install a 12" concrete apron (4" thick) around all new drainage basins.
17. Contractor shall comply with all requirements of Section 403.0885, Florida Statutes for NPDES, including, but not limited to, filing a Notice of Intent.



NOTE:  
PRIOR TO STARTING CONSTRUCTION, CONTRACTOR SHALL LOCATE AND UNCOVER EXISTING UNDERGROUND CABLE AND POWER LINES TO VERIFY LOCATIONS AND COORDINATE ANY CONFLICTS WITH THE SBDD.

# PAVING AND DRAINAGE PLAN



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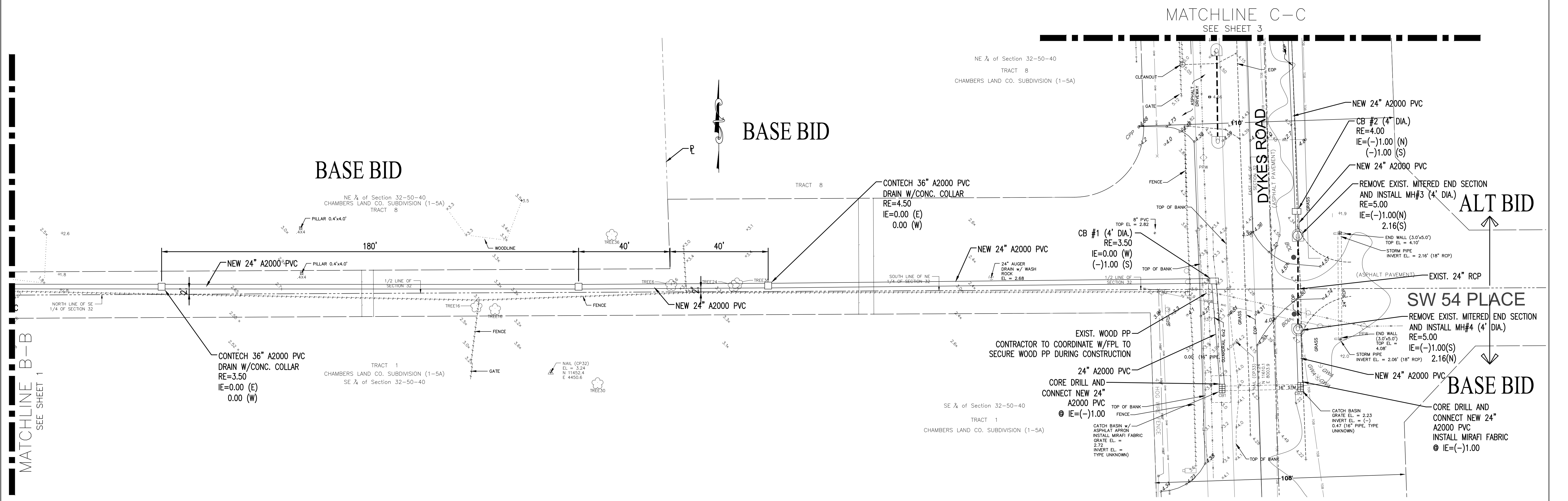
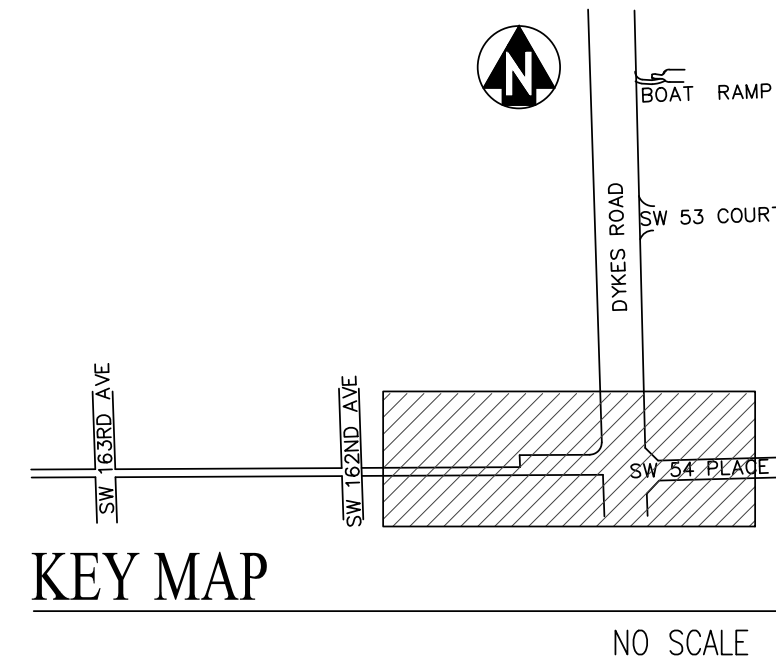
NO	DATE	REVISION	BY	NO	DATE	REVISION	BY
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SOUTH BROWARD DRAINAGE DISTRICT  
6591 SW 160th AVE.  
SOUTHWEST RANCHES, FLORIDA 33331

PAVING AND DRAINAGE PLAN  
S.W. 54th PL/DYKES ROAD IMPROVEMENT PROJECT  
SOUTHWEST RANCHES, FLORIDA

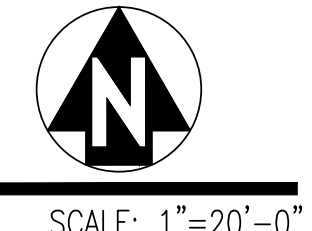
DRAWN BY:  
J.K.S.  
APPROVED BY:  
K.M.H.  
DATE 10-15-21

SCALE AS NOTED  
PROJECT No  
CAD FILE



NOTE:  
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# PAVING AND DRAINAGE PLAN



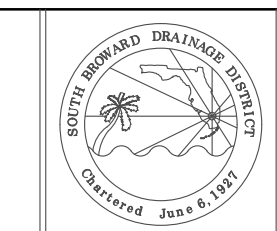
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SOUTH BROWARD DRAINAGE DISTRICT  
6591 SW 160th AVE.  
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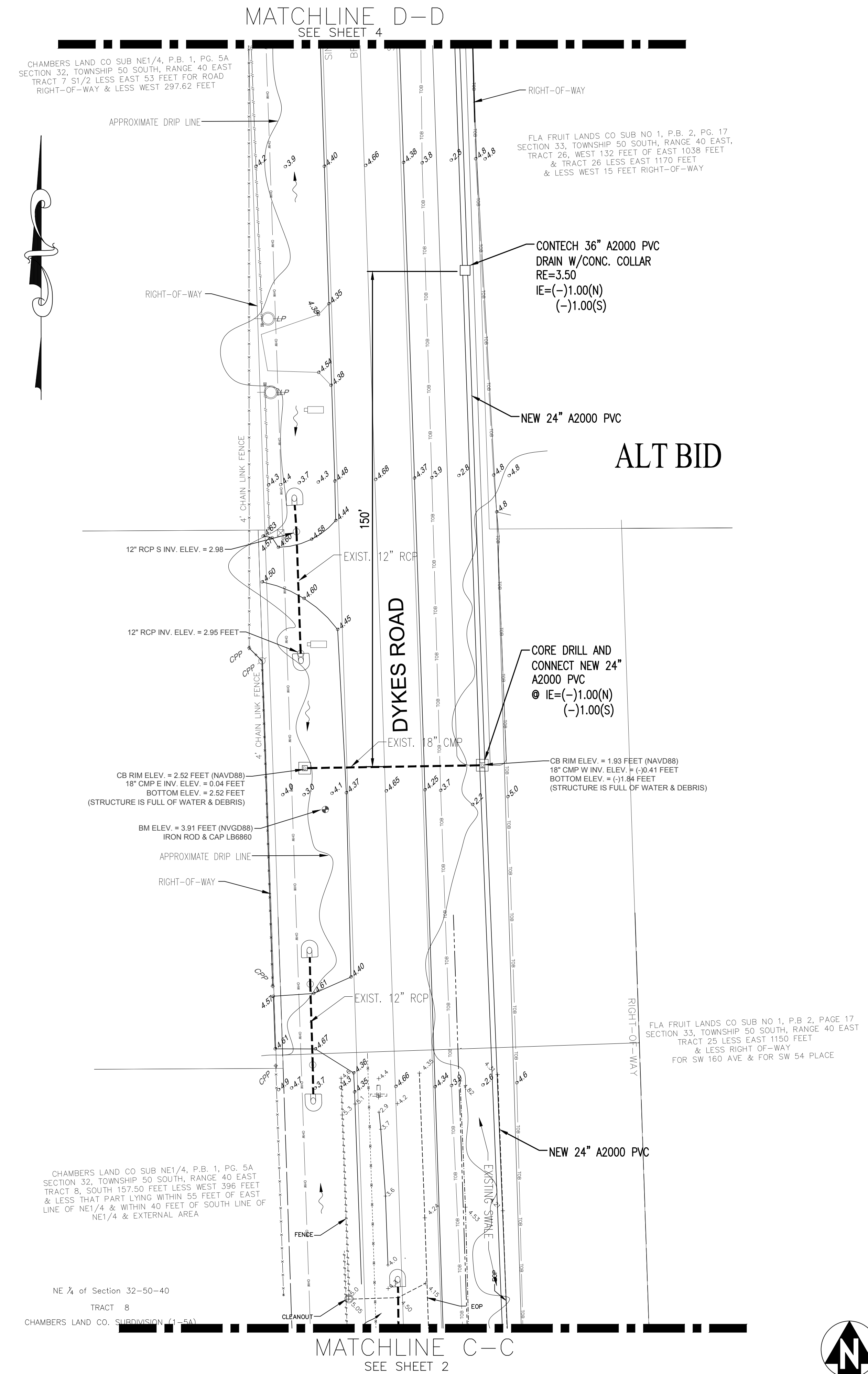
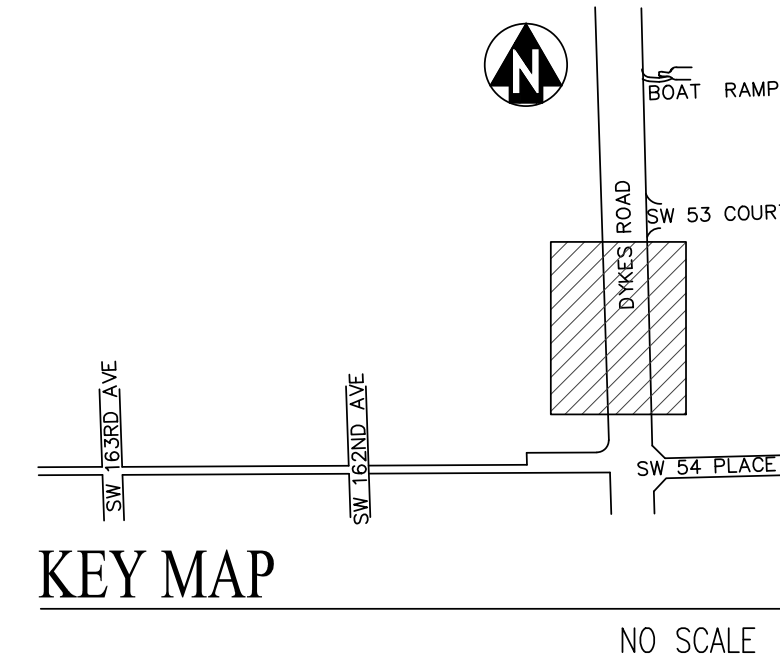
PAVING AND DRAINAGE PLAN  
S.W. 54th PL/DYKES ROAD IMPROVEMENT PROJECT  
SOUTHWEST RANCHES, FLORIDA

DRAWN BY:  
J.K.S.  
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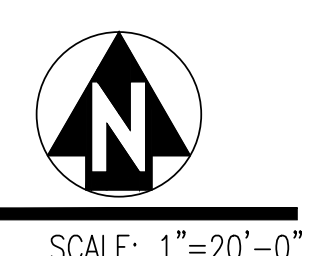


SCALE AS NOTED  
PROJECT No  
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SHEET  
2 OF 11



# PAVING AND DRAINAGE PLAN



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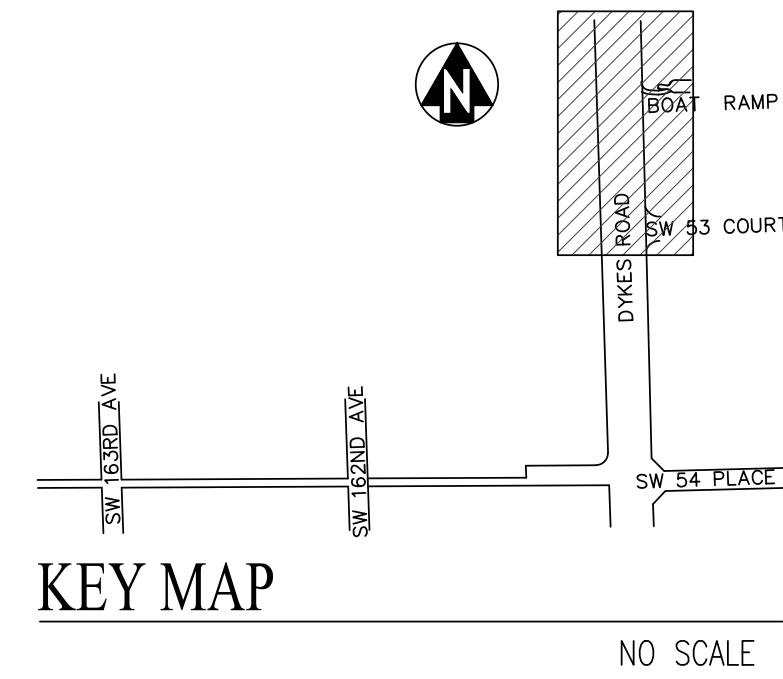
SOUTH BROWARD DRAINAGE DISTRICT  
6591 SW 160th AVE.  
SOUTHWEST RANCHES, FLORIDA 33331

PAVING AND DRAINAGE PLAN  
S.W. 54th PL/DYKES ROAD IMPROVEMENT PROJECT  
SOUTHWEST RANCHES, FLORIDA

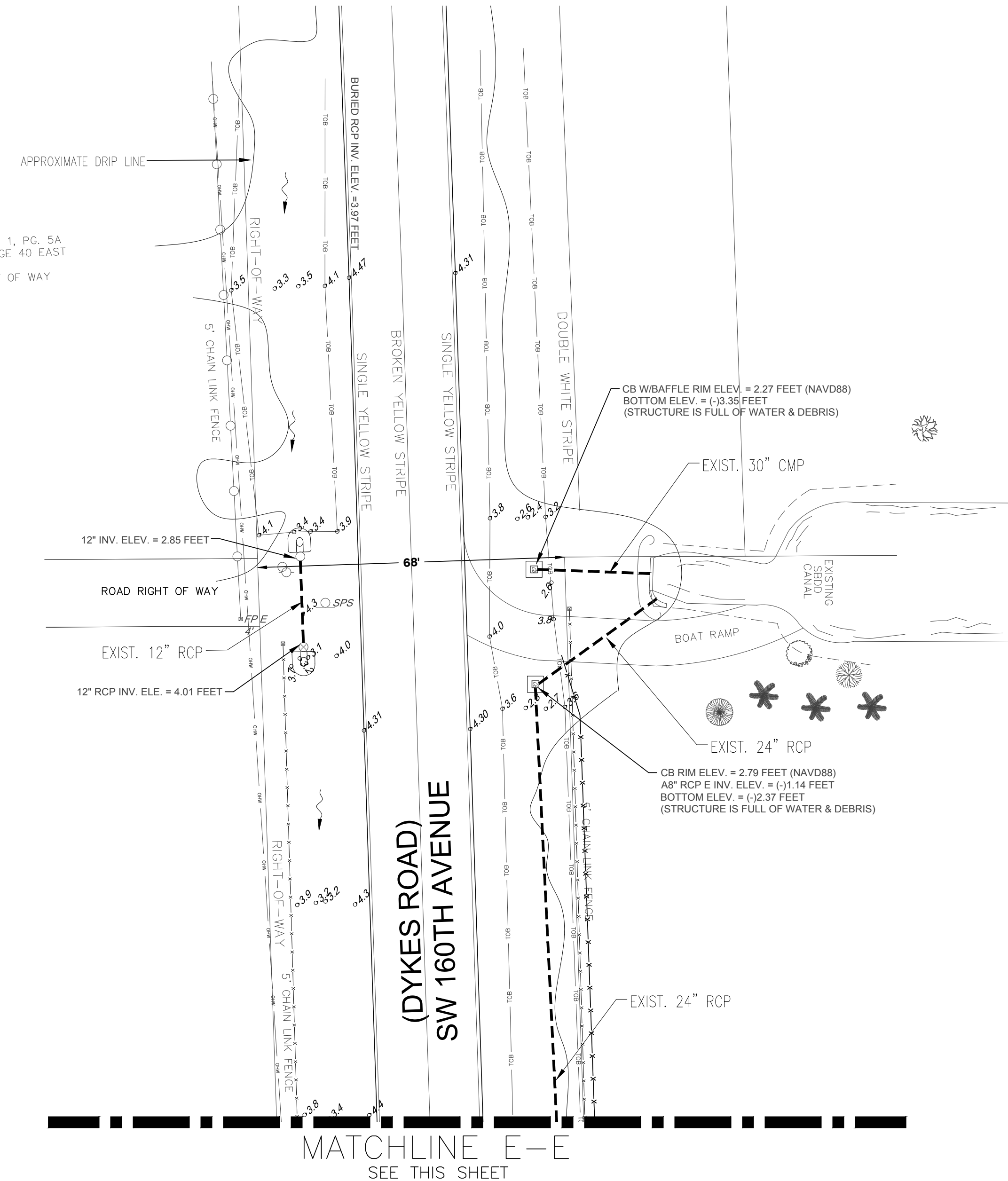
DRAWN BY:  
J.K.S.  
APPROVED BY:  
K.M.H.  
DATE 10-15-21

SCALE AS NOTED  
PROJECT No  
CAD FILE

SHEET  
3 OF 11

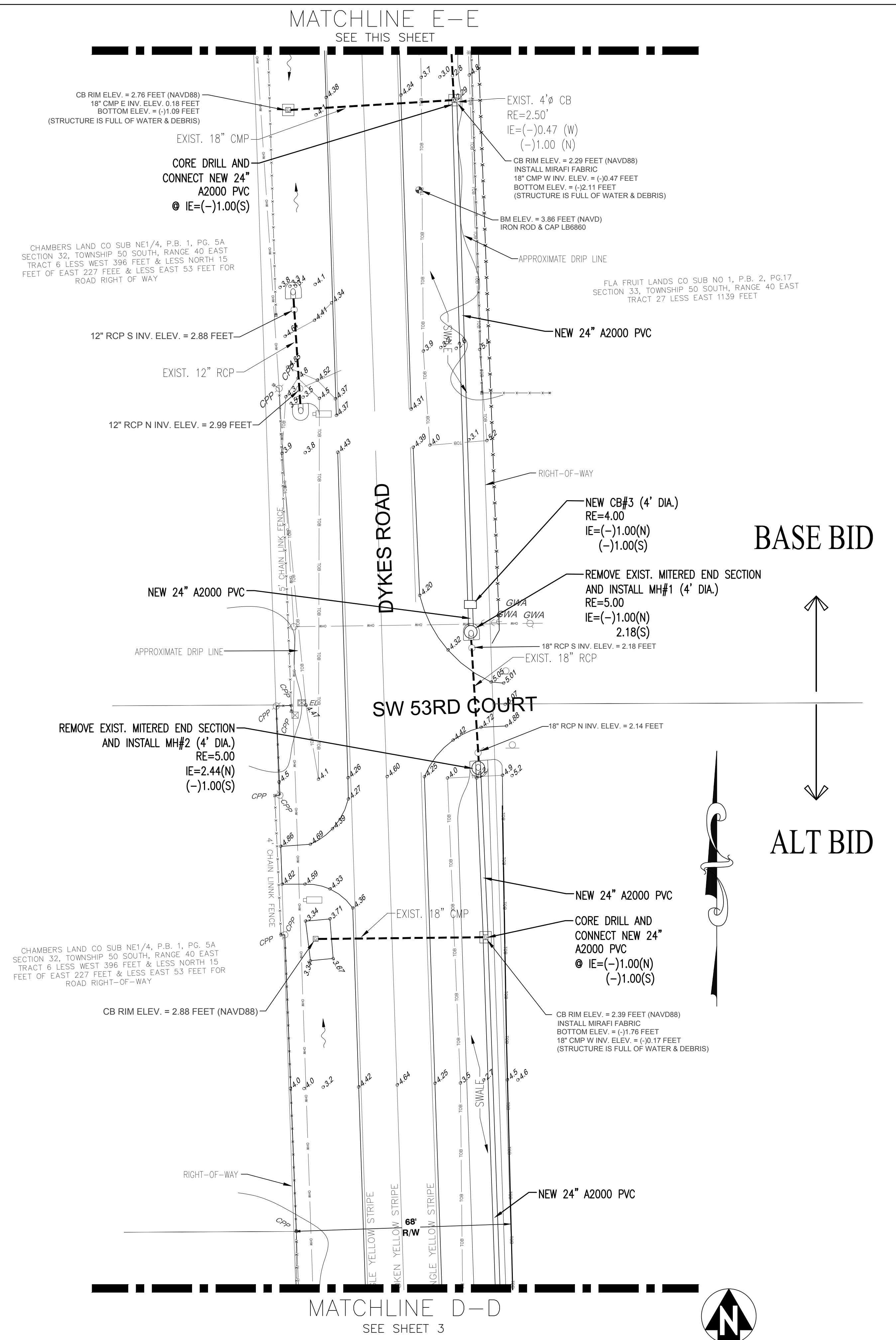


CHAMBERS LAND CO SUB NE1/4, P.B. 1, PG. 5A  
SECTION 32, TOWNSHIP 50 SOUTH, RANGE 40 EAST  
TRACT 5, SOUTH 165 FEET,  
EAST 53 FEET FOR ROAD RIGHT OF WAY



NOTE:  
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# PAVING AND DRAINAGE PLAN



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SOUTH BROWARD DRAINAGE DISTRICT  
6591 SW 160th AVE.  
SOUTHWEST RANCHES, FLORIDA 33331

PAVING AND DRAINAGE PLAN  
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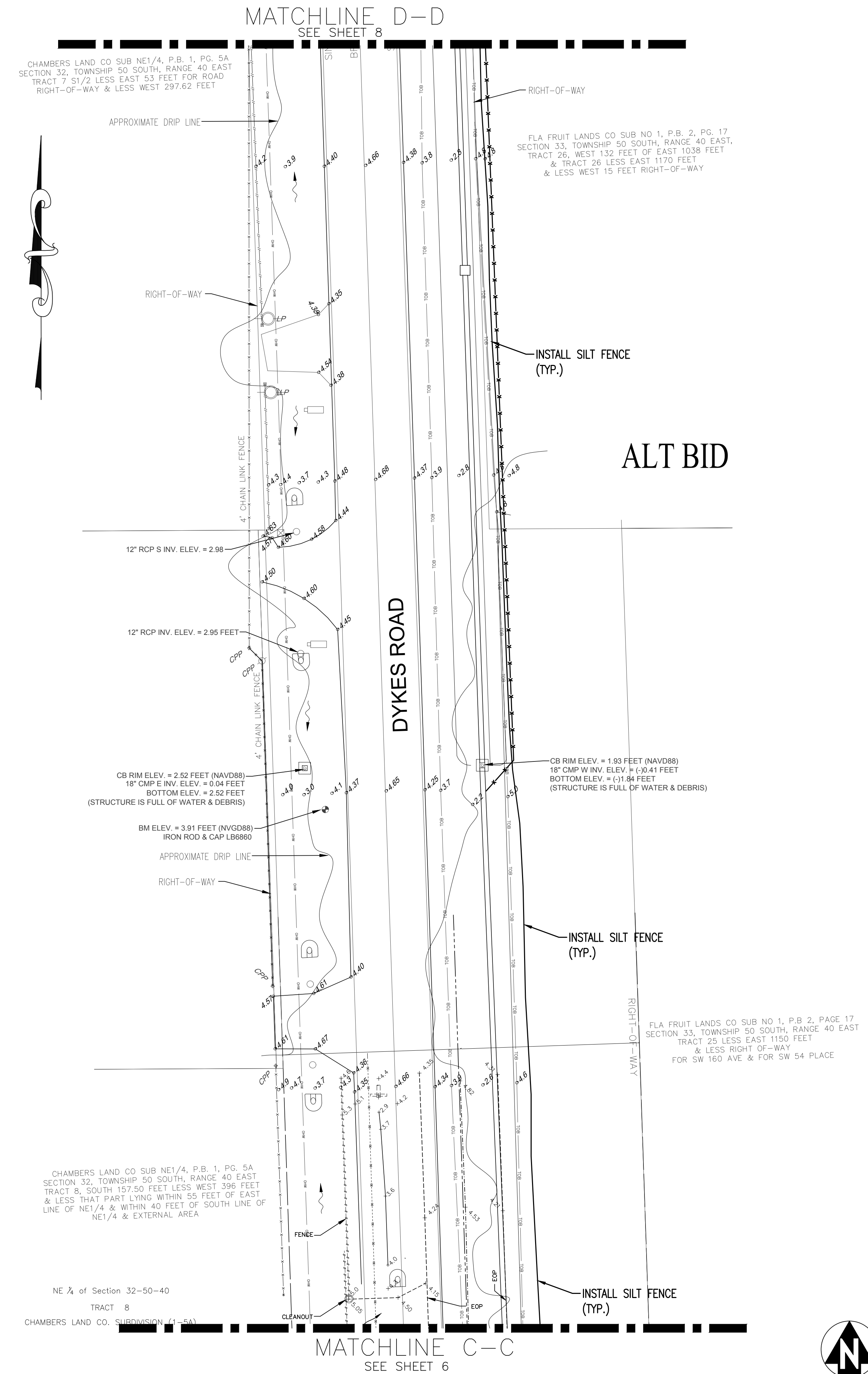
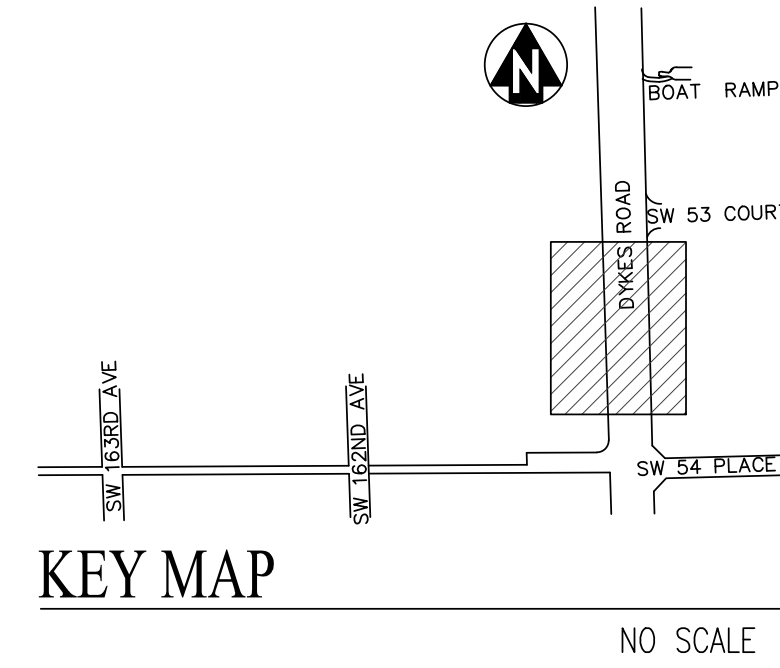
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4 OF 11

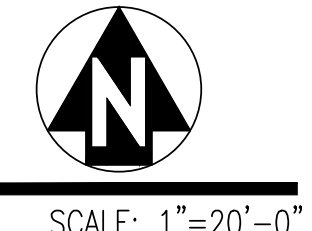








# EROSION CONTROL PLAN



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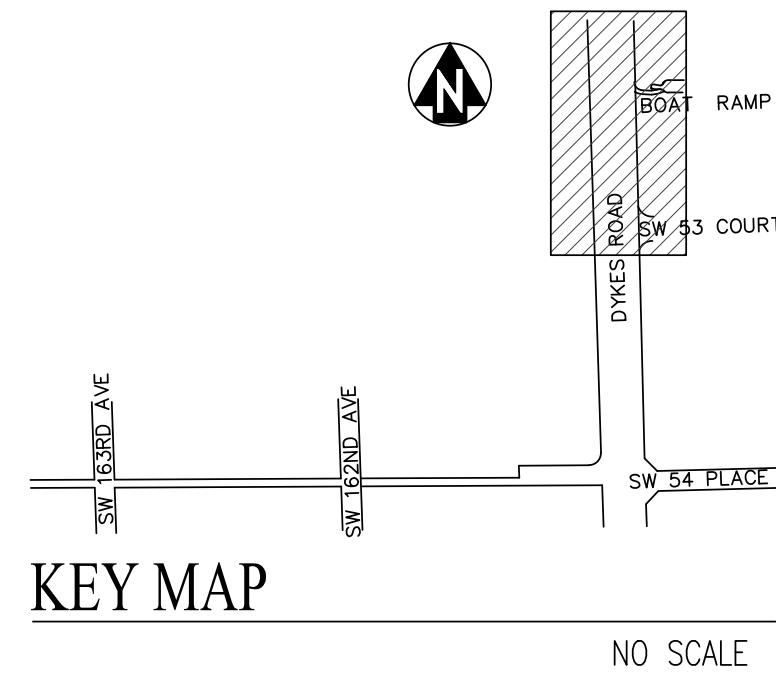
SOUTH BROWARD DRAINAGE DISTRICT  
6591 SW 160th AVE.  
SOUTHWEST RANCHES, FLORIDA 33331

EROSION CONTROL PLAN  
S.W. 54th PL/DYKES ROAD IMPROVEMENT PROJECT  
SOUTHWEST RANCHES, FLORIDA

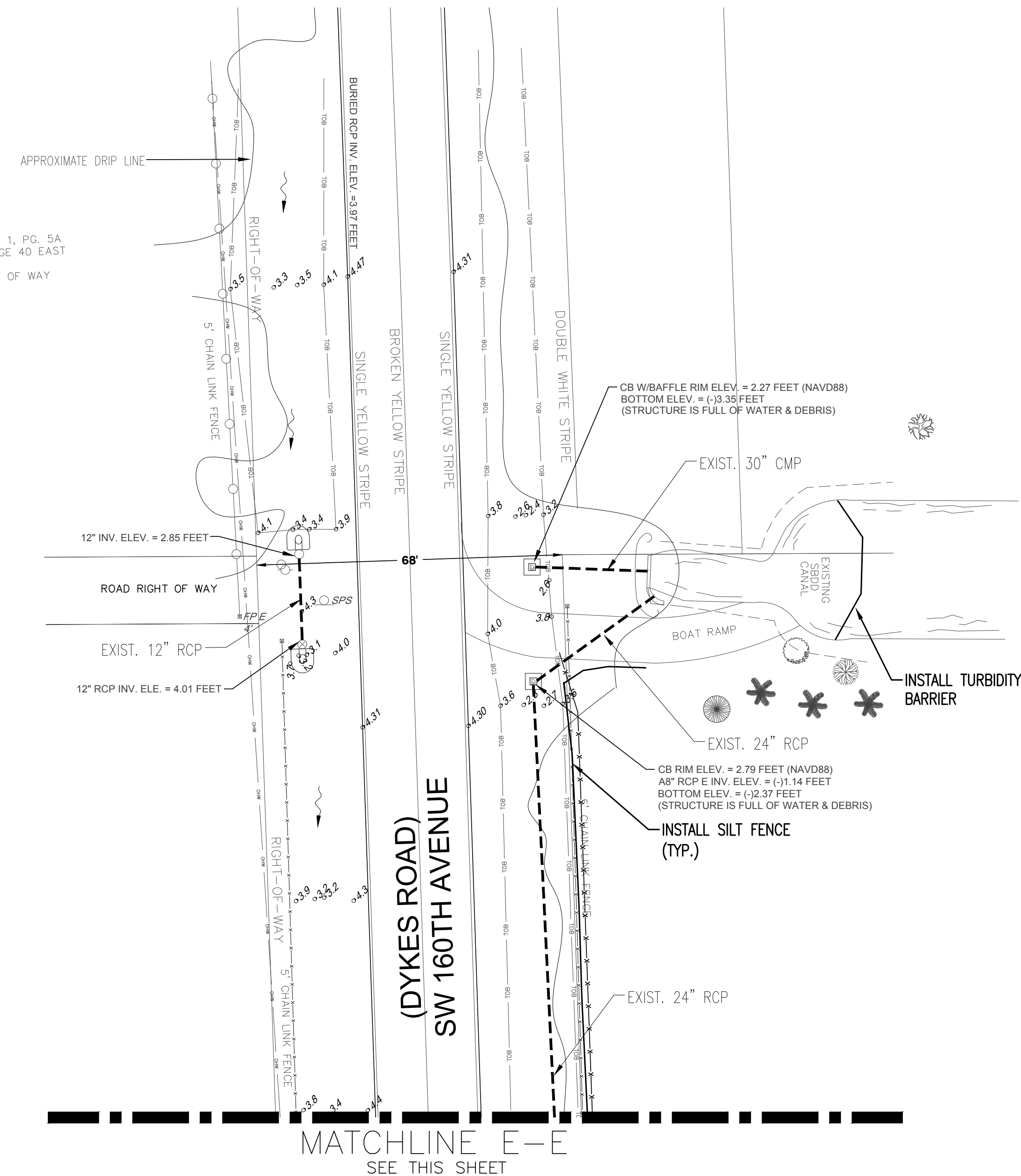
DRAWN BY:  
J.K.S.  
APPROVED BY:  
K.M.H.  
DATE 10-15-21

SCALE AS NOTED  
PROJECT No  
CAD FILE

SHEET  
7 OF 11

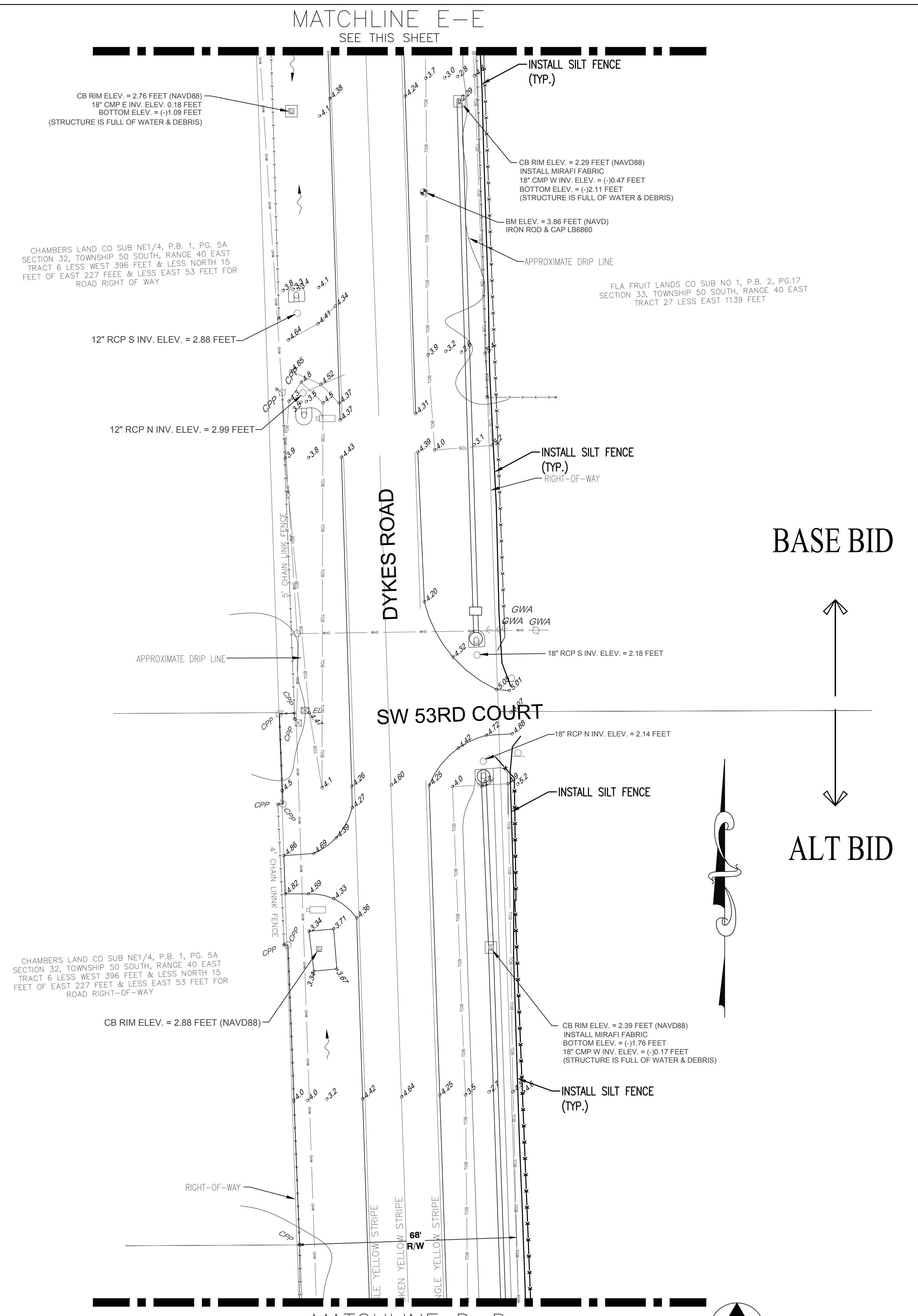


CHAMBERS LAND CO SUB NE1/4, P.B. 1, PG. 5A  
SECTION 32, TOWNSHIP 50 SOUTH, RANGE 40 EAST  
TRACT 5, SOUTH 165 FEET,  
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# EROSION CONTROL PLAN



BASE BID

ALT BID



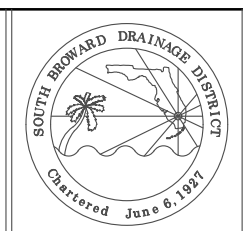
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SOUTH BROWARD DRAINAGE DISTRICT  
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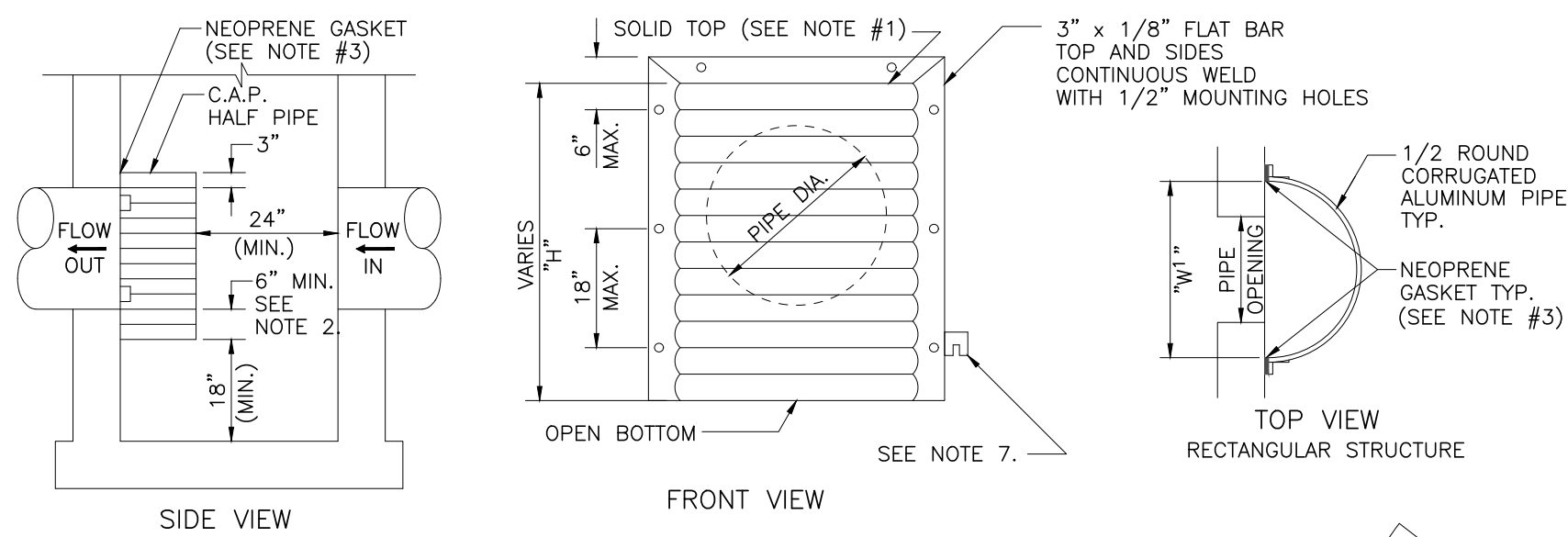
EROSION CONTROL PLAN  
S.W. 54th PL/DYKES ROAD IMPROVEMENT PROJECT  
SOUTHWEST RANCHES, FLORIDA

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K.M.H.  
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SCALE AS NOTED  
PROJECT No  
CAD FILE

SHEET  
8 OF 11

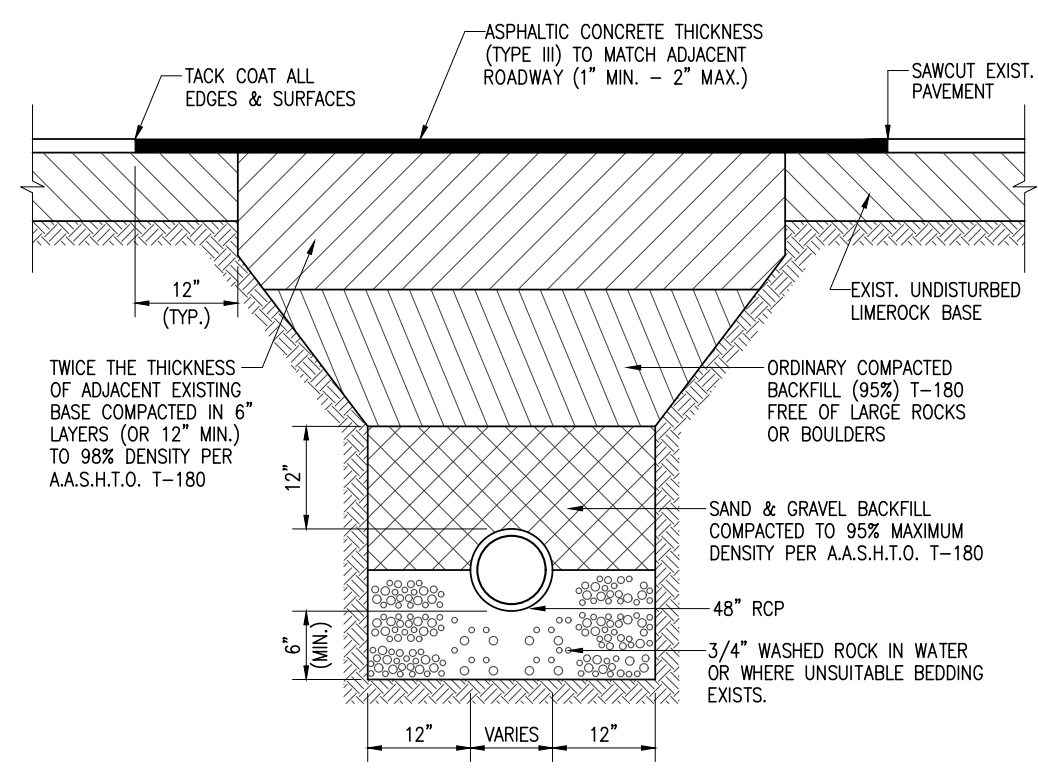


PIPE DIA.	W (IN)	W <sup>2</sup> (IN)	T (GAUGE)	H (IN)
15"	21"	21"	16	VARIES
18"	24"	24"	16	VARIES
21"	30"	30"	16	VARIES
24"	30"	36"	16	VARIES
30"	36"	42"	14	VARIES
36"	42"	48"	14	VARIES
42"	48"	54"	14	VARIES
48"	54"	60"	14	VARIES
54"	60"	66"	14	VARIES

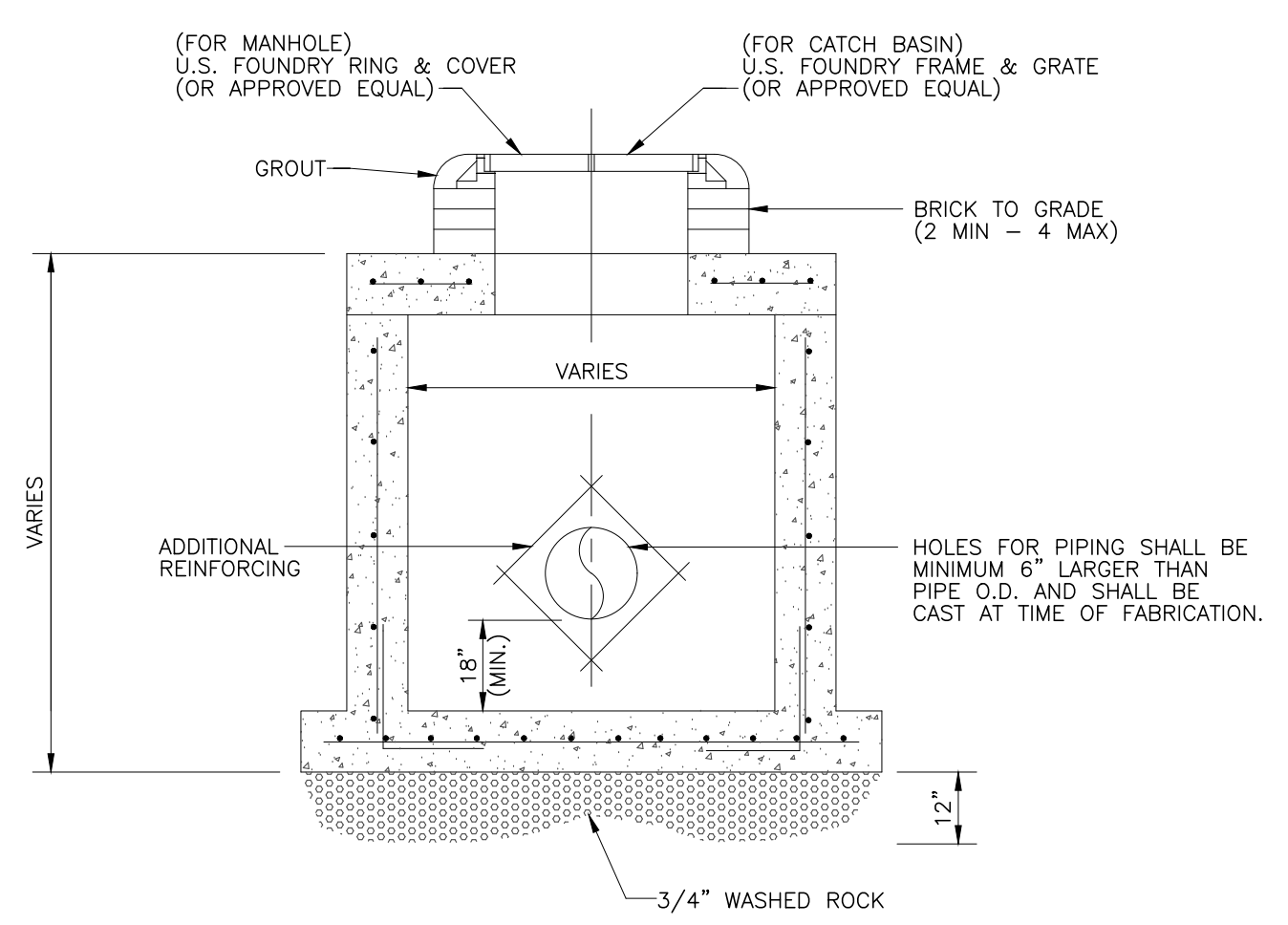
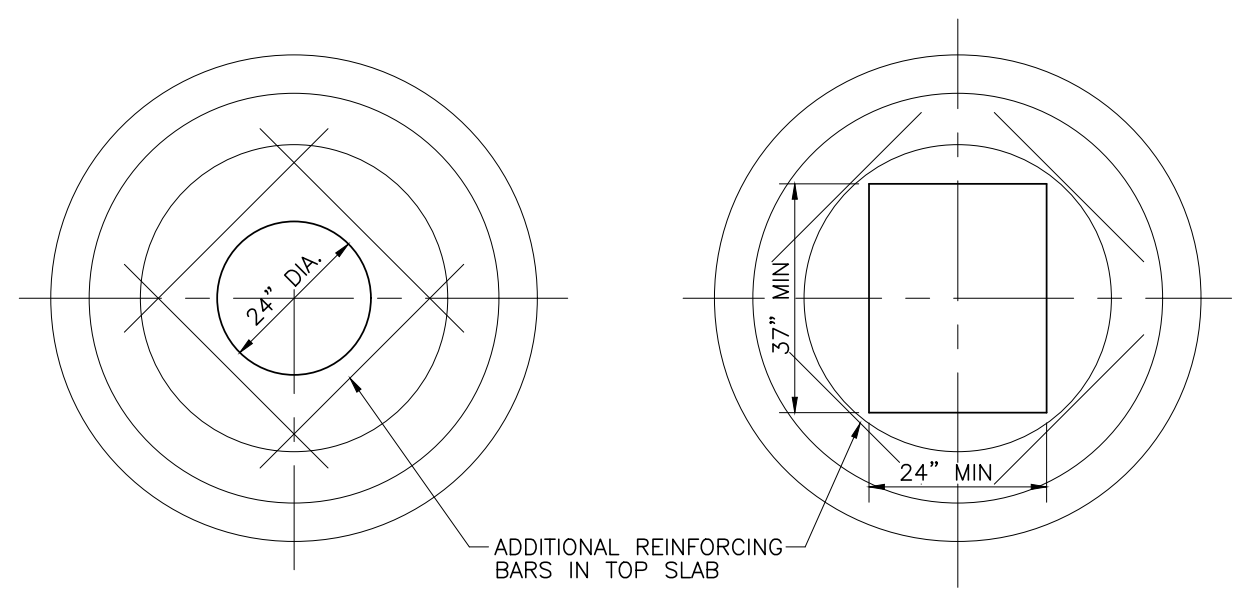
1. RECTANGULAR STRUCTURE  
2. ROUND STRUCTURE

- NOTES:**
- ALUMINUM SHEET OF SAME THICKNESS (GAUGE) AS PIPE SHALL BE WELDED TO CLOSE OPENING AT THE TOP.
  - THE BOTTOM ELEVATION OF THE POLLUTION RETARDANT BAFFLE MUST BE AT LEAST 2" BELOW CONTROL ELEVATION.
  - NEOPRENE ADHESIVE BACKED GASKET, OR APPROVED EQUAL (1" x 2") SHALL BE INSTALLED ON THE SIDES AND TOP OF ALL BAFFLES.
  - POLLUTION RETARDANT BAFFLE TO BE FASTENED IN PLACE WITH 3/8"x4" STAINLESS STEEL "RED HEADS", OR APPROVED EQUAL.
  - ALL EXFILTRATION TRENCHES SHALL HAVE A POLLUTION RETARDANT BAFFLE AT EACH CONNECTION POINT TO A STRUCTURE (SEE EXFILTRATION TRENCH DETAIL).
  - FIBERGLASS BAFFLES ARE NOT PERMITTED.
  - MOUNTING BRACKETS MAY BE ADDED TO FLAT BARS TO EASE INSTALLATION IN ROUND STRUCTURES. SPACING TO MATCH HOLES IN FLAT BARS.

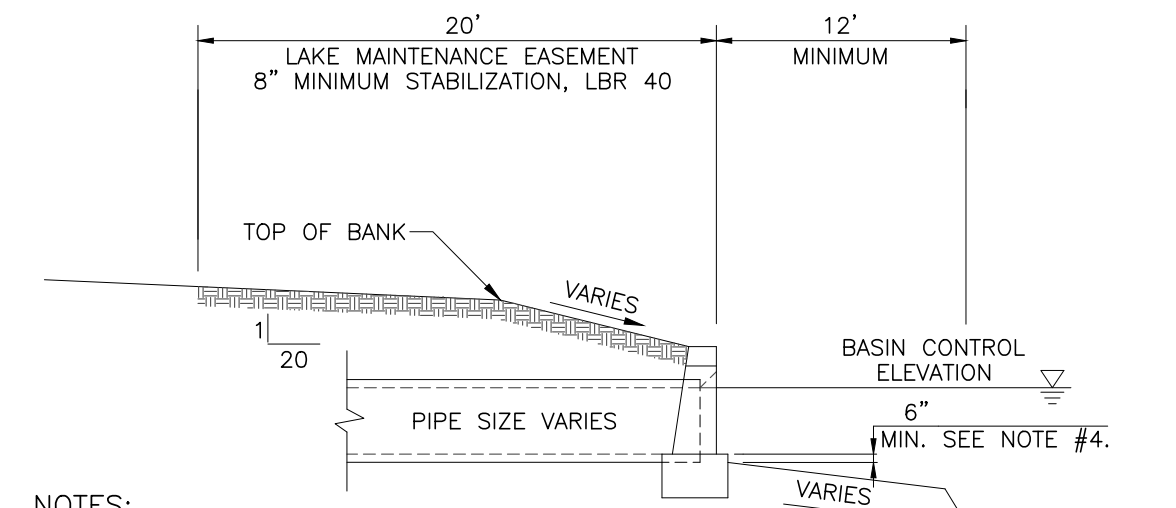
**POLLUTION RETARDANT BAFFLE DETAIL**



**PAVEMENT RESTORATION DETAIL**

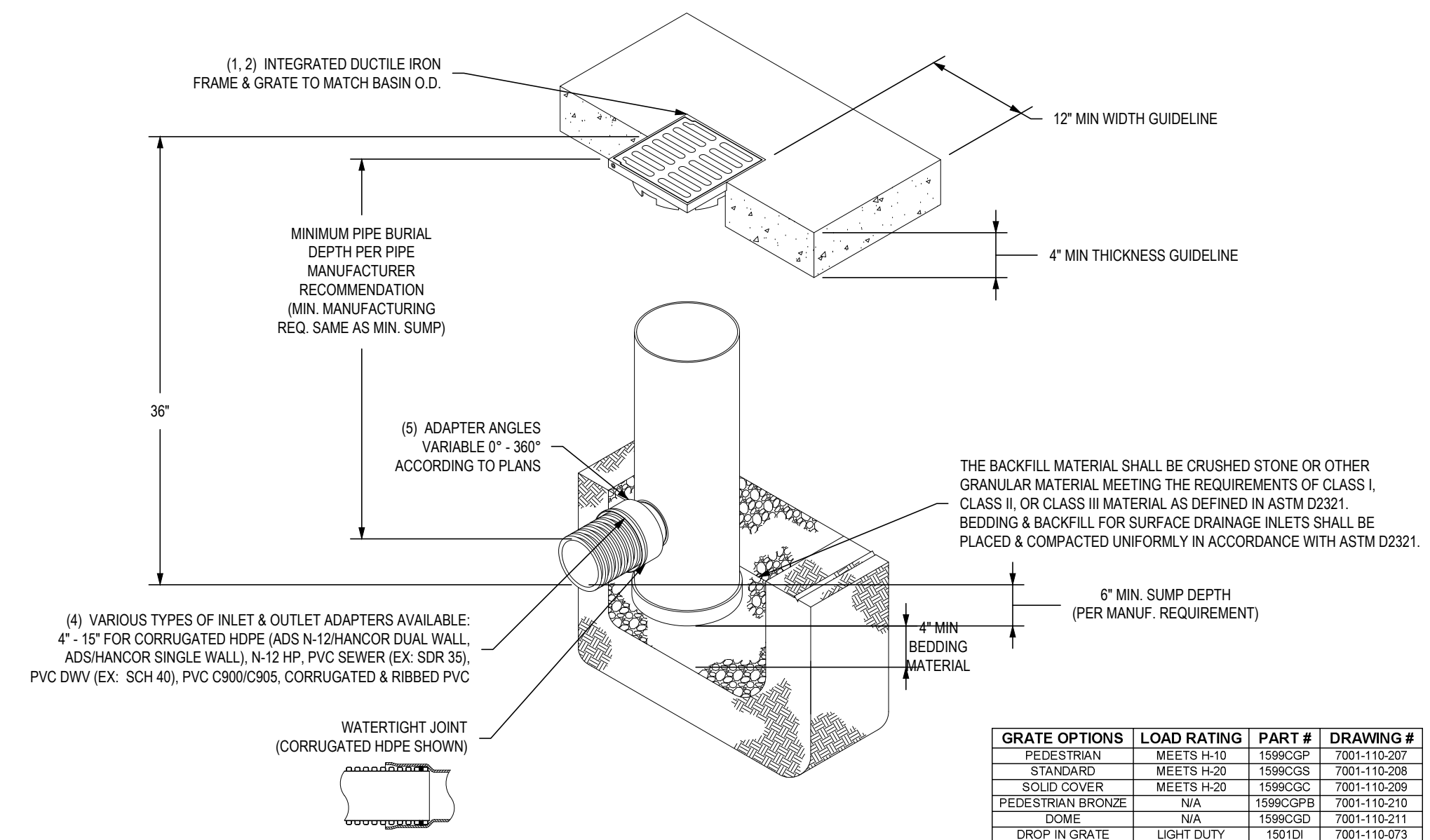


**PRECAST CATCH BASIN AND MANHOLE DETAIL**



- NOTES:**
- TOP OF CAP TO BE 1' ABOVE THE BASIN CONTROL ELEVATION FOR LAKES AND 2' ABOVE BASIN CONTROL ELEVATION FOR CANALS, UNLESS OTHERWISE APPROVED BY THE DISTRICT.
  - REQUIRED FOR ALL LAKE AND CANAL INTERCONNECTS.
  - CONCRETE AND RIP-RAP ENDWALLS ARE ACCEPTED PER FDOT INDEX 250-255 AND INDEX 258 WITH EXCEPTIONS AS NOTED IN SECTION 2.15 OF THE SBDD DESIGN CRITERIA MANUAL.
  - CHANNEL IN FRONT OF PIPE TO BE MIN 6" BELOW THE INVERT OF THE PIPE AND AT LEAST 1/2 TIMES THE DIA. OF THE PIPE TO THE DEEP CUT LINE AND CENTERED ON THE PIPE.

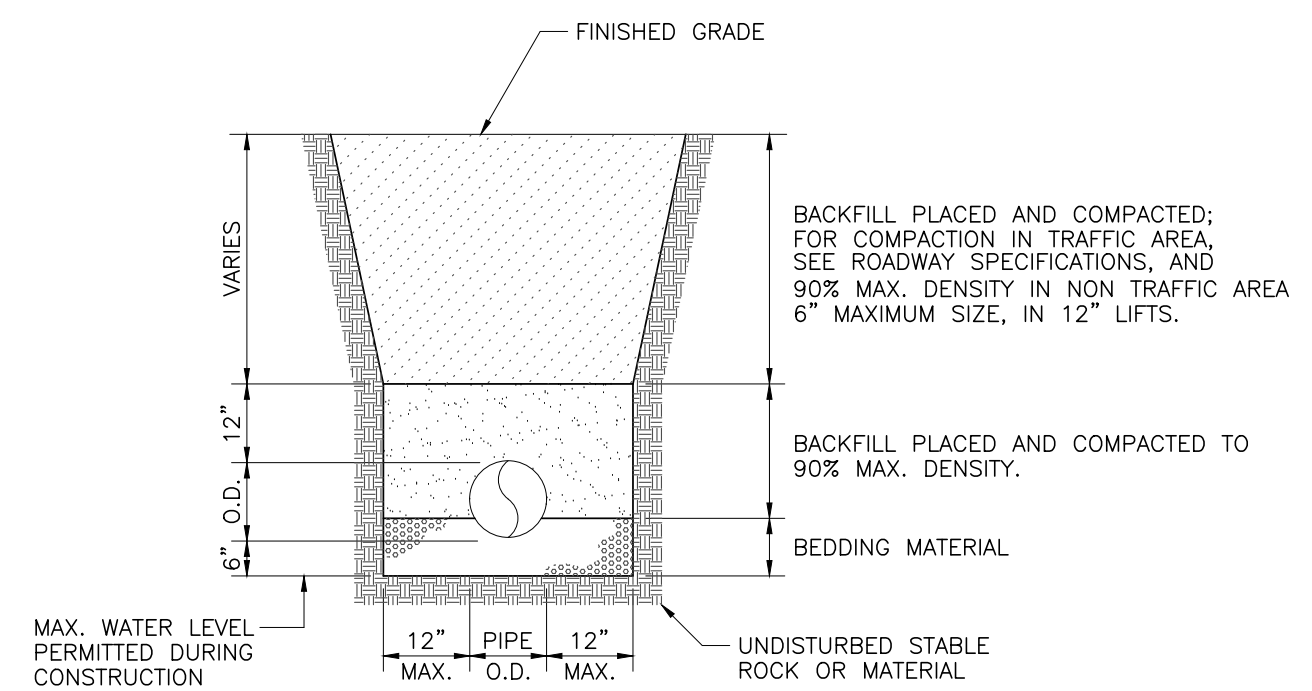
**LAKE OUTFALL DETAIL WITH HEADWALL**



- GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
- FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
- DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065
- DRAINAGE CONNECTIONS AT JOINT TIGHTNESS SHALL CONFORM TO ASTM D2321 FOR CORRUGATED HDPE (ADS N-12HANCOR DUAL WALL), N-12 HP & PVC SEWER
- ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012

**15" YARD DRAIN DETAIL**

SCALE: NONE



- NOTES:**
- WHERE SOIL CONDITION CANNOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE APPROVED MEANS OF CONSTRUCTION.
  - WHERE REQUIRED, SHEETING AND SHORING SHALL BE IN ACCORDANCE WITH THE LOCAL GOVERNMENTAL AGENCY.
  - MUCK OR OTHER UNSUITABLE MATERIAL SHALL BE COMPLETELY REMOVED.
  - WHEN THE PIPE IS LAID IN THE PREPARED TRENCH, TRUE TO LINE AND GRADE, THE PIPE BARREL SHALL RECEIVE CONTINUOUS UNIFORM SUPPORT. WHERE NECESSARY, COURSE SAND, PEA ROCK OR 3/4" LIMESTONE GRAVEL SHALL BE USED TO PROVIDE UNIFORM BEDDING.
  - JOINTS MAY BE REQUIRED TO BE WRAPPED AT THE DISCRETION OF THE DISTRICT AND THE SITE CONDITIONS.
  - BACKFILL MATERIAL SHALL BE NON-COHESIVE AND NON-PLASTIC SOIL THAT IS FREE OF ALL DEBRIS, LUMPS, WOOD BROKEN PAVING OR ANY ORGANIC OR UNSUITABLE MATERIAL. BACKFILL MATERIAL PLACED WITHIN 12" OF THE PIPE SHALL CONTAIN NO ROCKS OR STONES LARGER THAN 3-1/2" INCHES IN DIAMETER. NO ROCKS OR STONES LARGER THAN 6" IN DIAMETER WILL BE PERMITTED IN THE REMAINING BACKFILL UNLESS OTHERWISE SPECIFIED.
  - TRENCH BACKFILL SHALL BE COMPACTED TO NOT LESS THAN 90 PERCENT OF THE MAXIMUM DRY DENSITY DETERMINED BY AASHTO T-180. BACKFILL AND COMPACTION SHALL BE IN ACCORDANCE TO THE STANDARD ENGINEERING DESIGN REQUIRED BY THE LOCAL GOVERNMENTAL AGENCY.

**TRENCH EXCAVATION DETAIL**

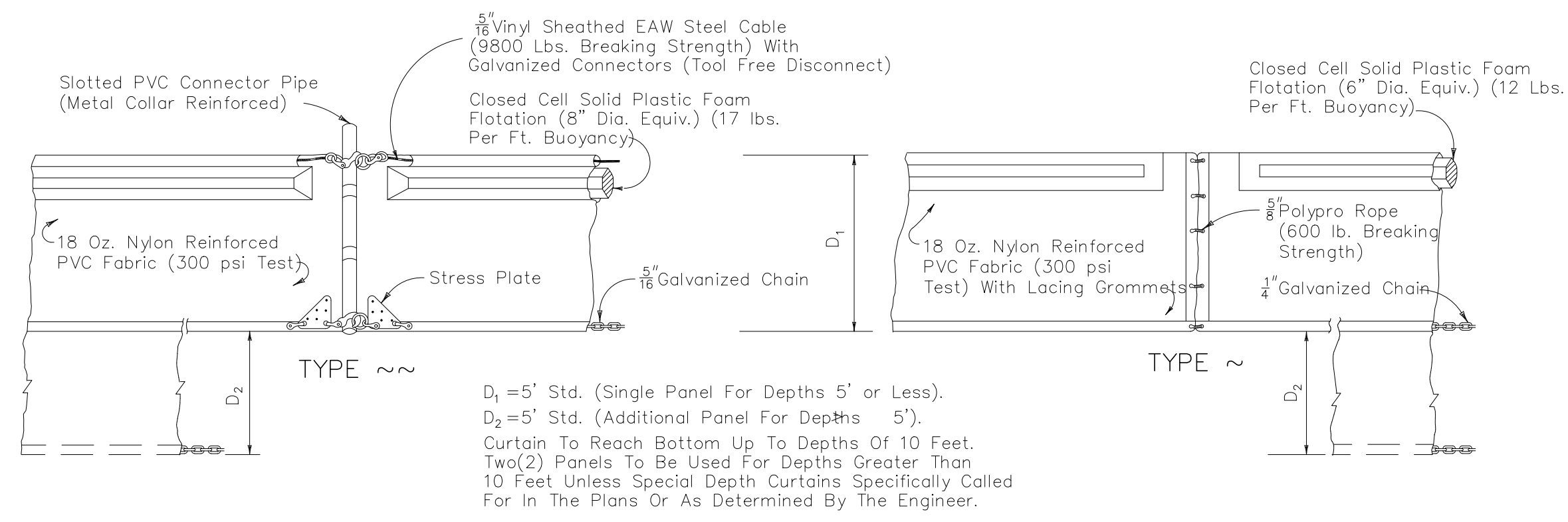
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SOUTH BROWARD DRAINAGE DISTRICT  
6591 SW 160th AVE.  
SOUTHWEST RANCHES, FLORIDA 33331

**PAVING AND DRAINAGE DETAILS**  
S.W. 54th PL/DYKES RD IMPROVEMENT PROJECT  
SOUTHWEST RANCHES, FLORIDA

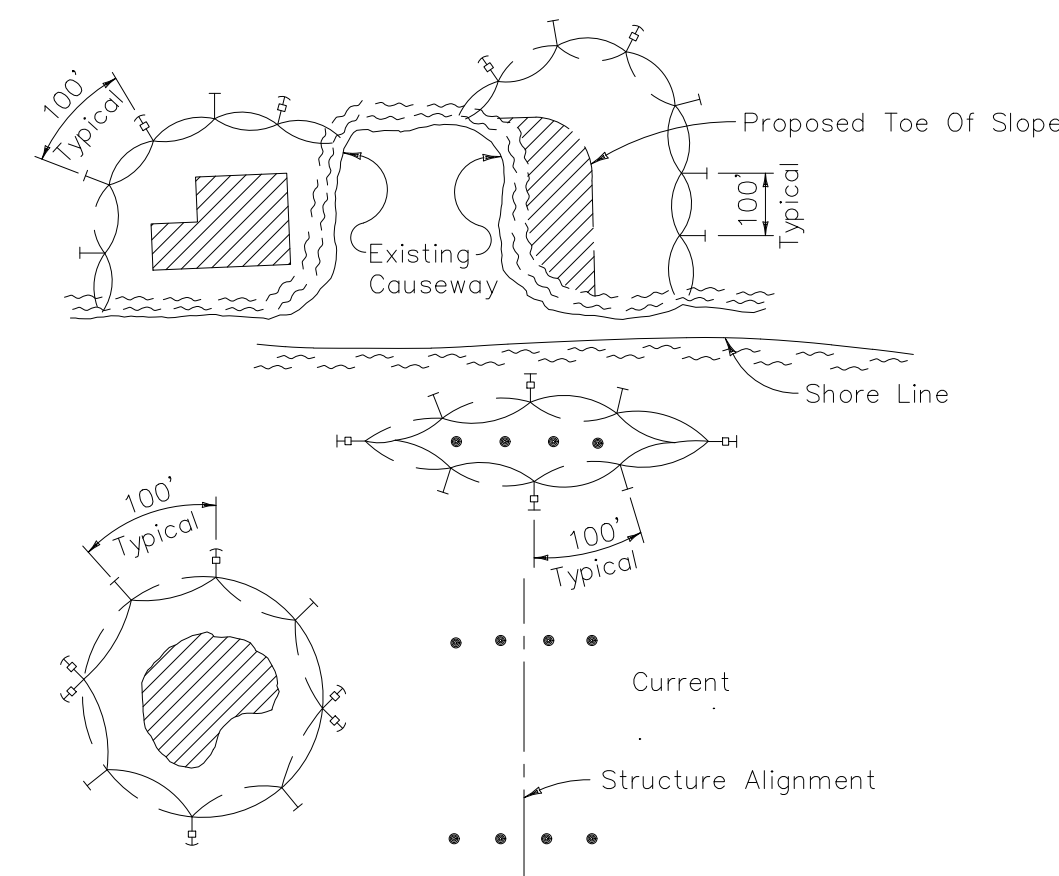
**GENERAL NOTES**

- THE FOLLOWING GENERAL NOTES ARE REQUIRED BY THE SOUTH BROWARD DRAINAGE DISTRICT (SBDD). THEY ARE NOT MEANT TO BE ALL INCLUSIVE. IT IS THE ENGINEER'S RESPONSIBILITY TO ADD ANY NOTES WHICH WILL INFORM THE OWNER AND THE CONTRACTOR OF ANY ADDITIONAL REQUIREMENTS OF SBDD.
- THE CONTRACTOR SHALL CONTACT SBDD 48 HOURS OR TWO (2) WORKING DAYS PRIOR TO ANY REQUIRED INSPECTION. TO SCHEDULE INSPECTIONS, PLEASE CALL SBDD AT (954)680-3337. SBDD'S WORKING HOURS ARE FROM 8:00 AM TO 4:30 PM, MONDAY THROUGH FRIDAY EXCEPT HOLIDAYS.
- ANY REVISIONS TO PLANS PERMITTED BY SBDD MUST BE APPROVED BY SBDD PRIOR TO CONSTRUCTION.
- A PRECONSTRUCTION MEETING SHALL BE SCHEDULED AND HELD AT LEAST FIVE (5) DAYS PRIOR TO BEGINNING CONSTRUCTION.
- A SET OF SHOP DRAWINGS SHALL BE SUBMITTED TO SBDD AFTER APPROVAL BY THE ENGINEER OF RECORD.
- DURING CONSTRUCTION, SBDD PERSONNEL WILL INSPECT THE FOLLOWING:  
.. INSTALLATION OF ALL UNDERGROUND DRAINAGE FACILITIES BEFORE BACKFILLING,  
.. BACKFILLING OF DRAINAGE TRENCHES,  
.. SHAPING OF CANAL AND LAKE BANKS FROM THE DEEP CUT TO THE UPLAND EASEMENT LINE OR AS REQUIRED BY SBDD,  
AND ANY OTHER DRAINAGE RELATED CONSTRUCTION WORK.  
RE-INSPECTIONS OR EXTRAORDINARY INSPECTIONS WILL BE SUBJECT TO ADDITIONAL FEE CHARGES BY SBDD.
- THE CONTRACTOR CONSTRUCTING OR EXCAVATING LAKES OR OTHER WATER BODIES SHALL EXERCISE EXTREME CAUTION TO ENSURE THAT THE SIDE SLOPES AND DEEP CUT LINES ARE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS FOR THE DEVELOPMENT. THE CONTRACTOR OR OWNER SHALL PERIODICALLY, OR AS REQUIRED BY SBDD, OBTAIN A SURVEY, FROM A FLORIDA REGISTERED SURVEYOR OF THE LOCATION OF THE DEEP CUT LINES PRIOR TO FORMING THE SIDE SLOPES. THIS SURVEY SHALL BE PERFORMED PRIOR TO THE OWNER/CONTRACTOR BEGINNING CONSTRUCTION OF ANY BUILDING PADS ADJACENT TO THE WATER BODY. IN THE EVENT THAT THE CONTRACTOR OVER DIGS THE WATER BODY, THE OWNER/CONTRACTOR SHALL SUBMIT TO SBDD ITS SOLUTION TO CORRECT THE OVER DIGGING. ANY SUGGESTED REMEDY OR CORRECTION MUST BE APPROVED BY SBDD BEFORE THE CONTRACTOR BEGINS THE PROPOSED CORRECTION/REMEDY.
- PAVING AND DRAINAGE "AS-BUILT" PLANS CERTIFIED BY THE ENGINEER OF RECORD AND APPROVED BY SBDD'S ENGINEER AND DIRECTOR WILL BE REQUIRED BEFORE THE RELEASE OF THE BOND OR LETTER OF CREDIT. AS-BUILTS SHALL BE PROVIDED AS AN OVERLAY OF THE APPROVED CONSTRUCTION DRAWINGS AND AT THE SAME SCALE AS ORIGINALLY SUBMITTED. AS-BUILT SUBMITTALS SHALL CONFORM TO THE REQUIREMENTS OF SECTION SIX (6) OF SBDD'S CRITERIA MANUAL. AS-BUILTS MUST ALSO BE PROVIDED ON AN AUTOLOAD DISC.
- AS-BUILT DRAWINGS OF WATER BODIES SHALL INCLUDE THE DATA ADDRESSED IN THE "AS-BUILT LAKE SECTION" IN EXHIBIT 26 OF SBDD'S CRITERIA MANUAL. THE AS-BUILT CROSS SECTIONS SHALL BE PROVIDED AT NOT MORE THAN 100 FOOT INTERVALS AND ALL OUTFALL PIPES CONSTRUCTED WITHOUT HEADWALLS.
- SBDD WILL NOT COMPLETE THE FINAL INSPECTION UNTIL THE AS-BUILT PACKAGE WHICH WILL INCLUDE THE ENGINEER'S CERTIFICATION AND TEST RESULTS FOR STABILIZATION OF LAKE/CANAL MAINTENANCE EASEMENTS, ARE RECEIVED.

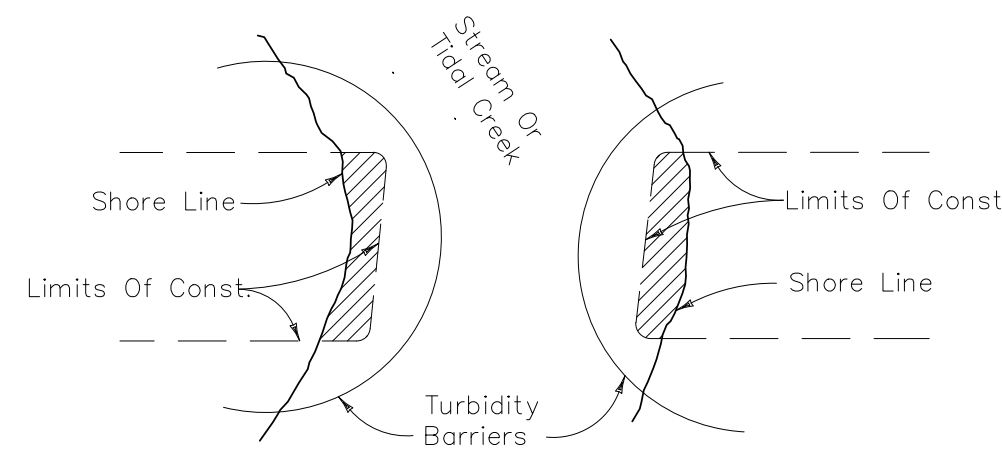


NOTICE: COMPONENTS OF TYPES ~ AND ~ MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES ~ AND ~ SHALL BE AS APPROVED BY THE ENGINEER.

### FLOATING TURBIDITY BARRIERS



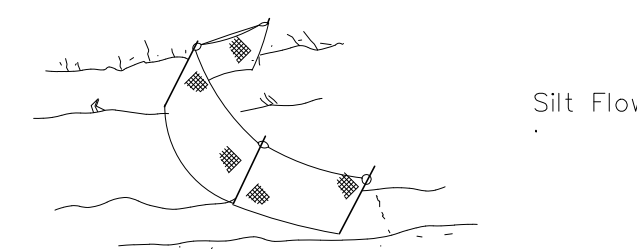
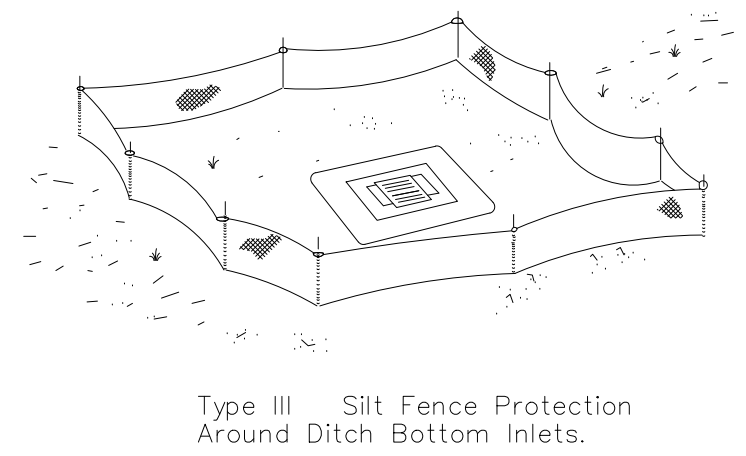
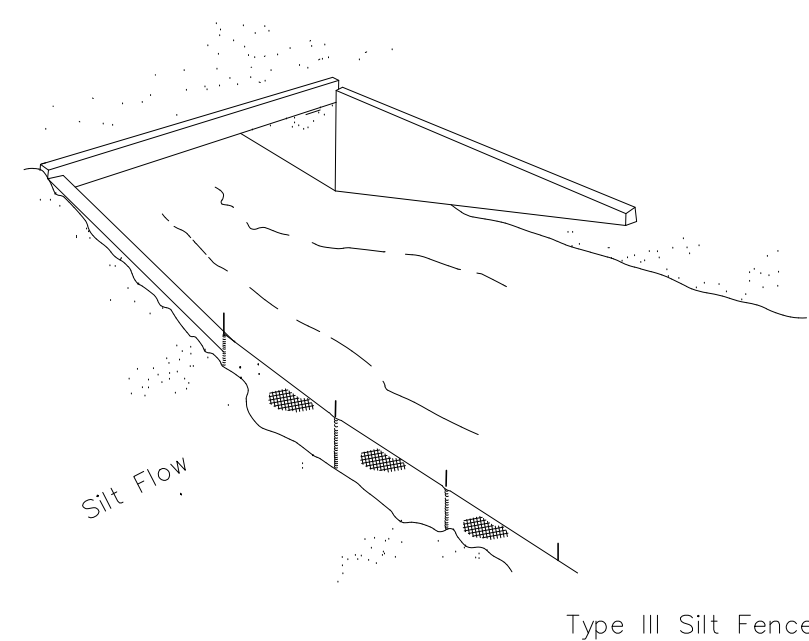
- LEGEND**
- Pile Locations
  - ▨ Dredge Or Fill Area
  - ⊙ Mooring Buoy w/Anchor
  - Anchor
  - Barrier Movement Due To Current Action



- NOTES:**
- Turbidity barriers are to be used in all permanent bodies of water regardless of water depth.
  - Number and spacing of anchors dependent on current velocities.
  - Deployment of barrier around pile locations may vary to accommodate construction operations.
  - Navigation may require segmenting barrier during construction operations.
  - For additional information see Section 104 of the Standard Specifications.

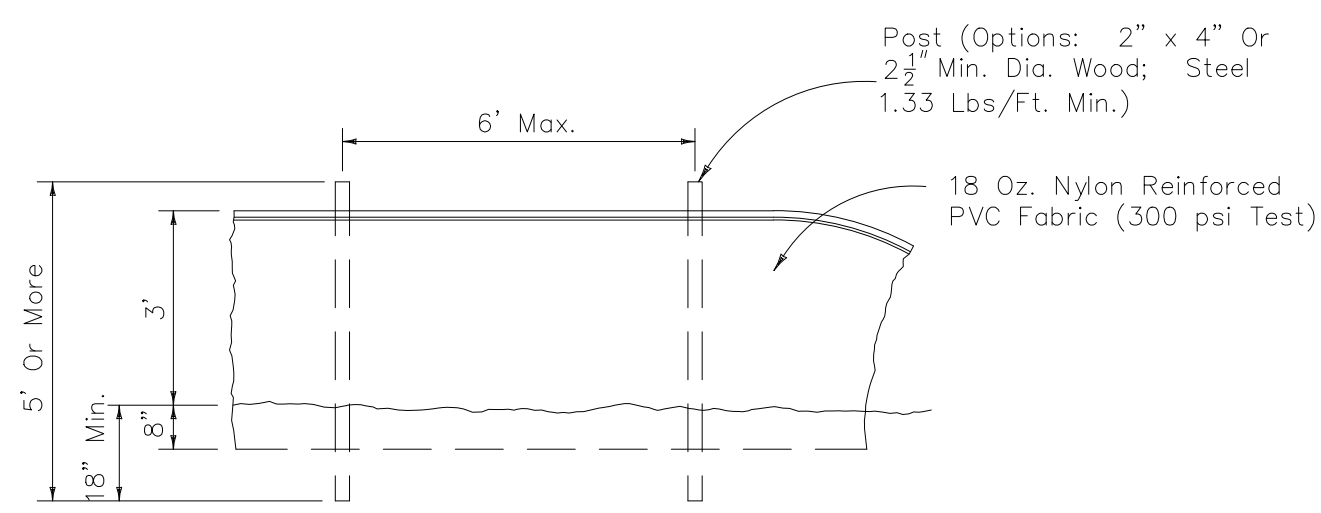
**Note:** Turbidity barriers for flowing streams and tidal creeks may be either floating or staked types or any combinations of types that will suit site conditions and meet erosion control and water quality requirements. The barrier type(s) will be at the Contractors option unless otherwise specified in the plans, however payment will be under the pay item(s) established in the plans for Floating Turbidity Barrier and/or Staked Turbidity Barrier. Posts in staked turbidity barriers to be installed in vertical position unless otherwise directed by the Engineer.

### TURBIDITY BARRIER APPLICATIONS



Do not deploy in a manner that silt fences will act as a dam across permanent flowing watercourses. Silt fences are to be used at upland locations and turbidity barriers used at permanent bodies of water.

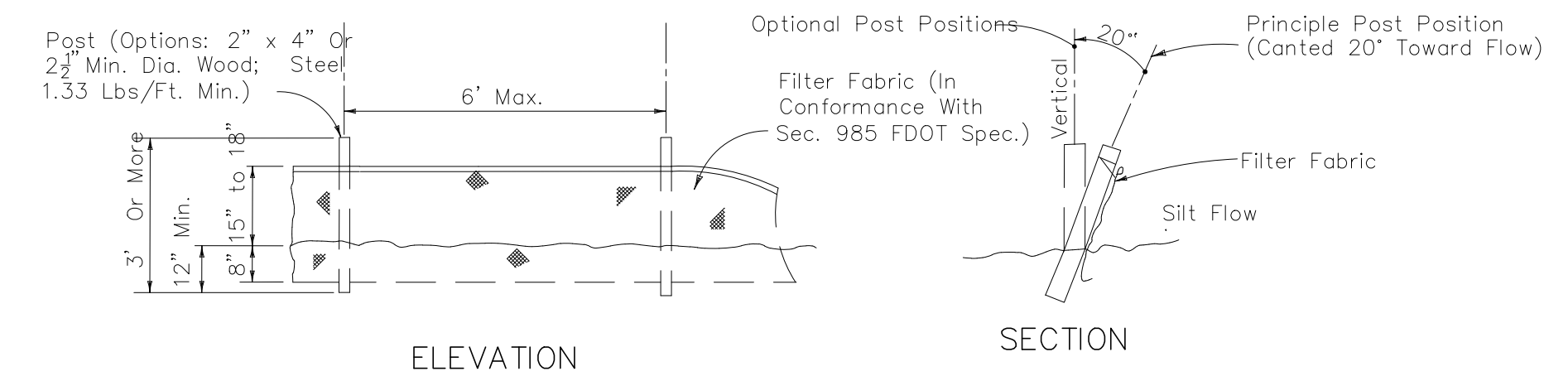
### SILT FENCE APPLICATIONS



### STAKED TURBIDITY BARRIER

**GENERAL NOTES**

- Floating turbidity barriers are to be paid for under the contract unit price for Floating Turbidity Barrier, LF.
- Staked turbidity barriers are to be paid for under the contract unit price for Staked Turbidity Barrier, LF.



**Note:** Silt Fence to be paid for under the contract unit price for Staked Silt Fence (LF).

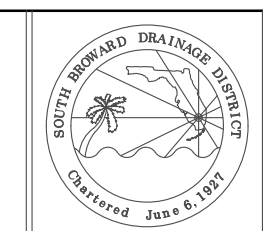
### TYPE III SILT FENCE

NO	DATE	REVISION	BY	NO	DATE	REVISION	BY
1							

SOUTH BROWARD DRAINAGE DISTRICT  
6591 SW 160th AVE.  
SOUTHWEST RANCHES, FLORIDA 33331

**EROSION CONTROL DETAILS**  
S.W. 54th PL/DYKES RD IMPROVEMENT PROJECT  
SOUTHWEST RANCHES, FLORIDA

DRAWN BY:  
J.K.S.  
APPROVED BY:  
K.M.H.  
DATE 10-15-21



SCALE AS NOTED  
PROJECT No  
CAD FILE