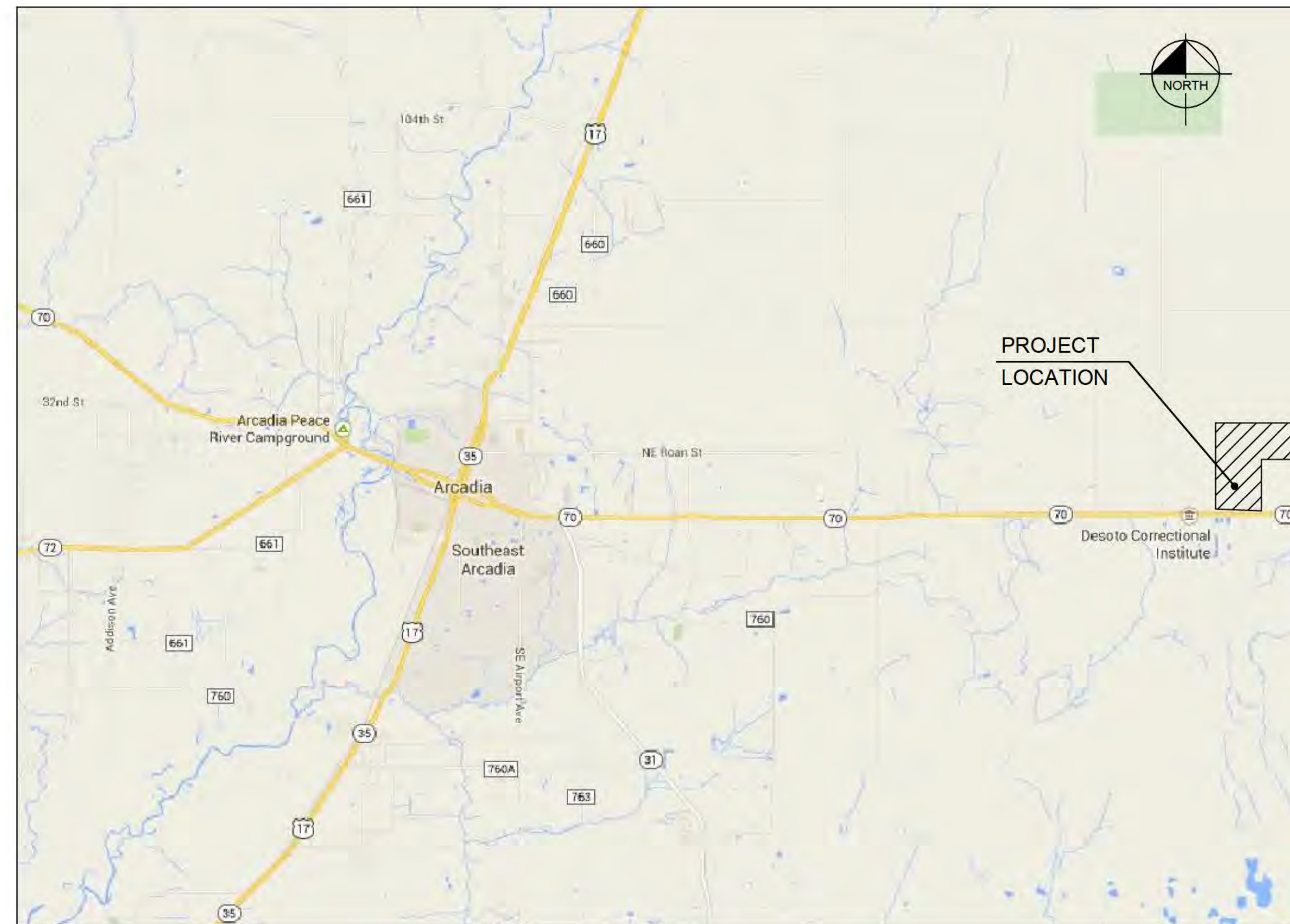


IMPROVEMENT PLAN FOR DESOTO RECYCLING & DISPOSAL LANDFILL

APRIL 2015

LOCATED IN SECTIONS 31, TOWNSHIP 37S, RANGE 27E
DESOTO COUNTY, FLORIDA



VICINITY MAP

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C-8	SITE GRADING PLAN
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NOTE:

REVISIONS HAVE BEEN MADE PER COMMENTS OBTAINED THROUGH MEETINGS WITH DESOTO COUNTY.

APPLICANT:
DESOTO RECYCLING & DISPOSAL, LLC
1250 HIDDEN HARBOR WAY
SARASOTA, FLORIDA 34232
PHONE:

ENGINEER:
KIMLEY-HORN AND ASSOCIATES, INC.
1777 MAIN STREET, SUITE 200
SARASOTA, FLORIDA 34236
PHONE: 941-379-7600
CONTACT: WILLIAM E. CONERLY, P.E.

SOLID WASTE ENGINEER:
CORNERSTONE ENVIRONMENTAL GROUP, LLC.
2812 HENLEY ROAD, SUITE E
GREEN COVE SPRINGS, FL 32043
PHONE: 352-275-7381
CONTACT: DON HULLINGS, P.E.

I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF THE DESIGN OF THIS PROJECT, AS PREPARED UNDER MY PERSONAL DIRECTION AND CONTROL, COMPLIES WITH ALL APPLICABLE STANDARDS, INCLUDING THE "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS" AS ADOPTED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION PURSUANT TO SUBSECTIONS 335.075(1) AND (4), FLORIDA STATUTES AND DESOTO COUNTY LAND DEVELOPMENT REGULATIONS.

PREPARED BY
Kimley»Horn

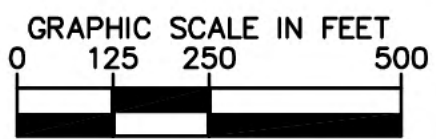
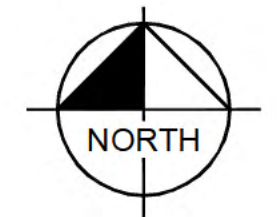
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PHONE: 941-379-7600 FAX: 941-379-4352
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WILLIAM E. CONERLY, P.E.
FLORIDA P.E. LICENSE NUMBER # 57414
CA # 00000696

DATE



Plotted By: Healy, Patrick Sheet: Set: Desoto Recycling Facility, Layout: C-3 AERIAL SITE PLAN, September 17, 2015 12:00:52pm K:\SAR_Civil\148233000 - Desoto Recycling Facility\CAD\PlanSheets\C-3 AERIAL SITE PLAN.dwg
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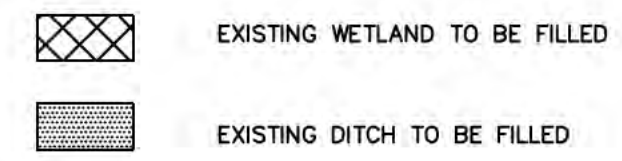
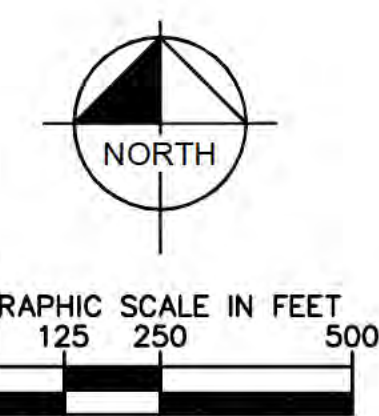
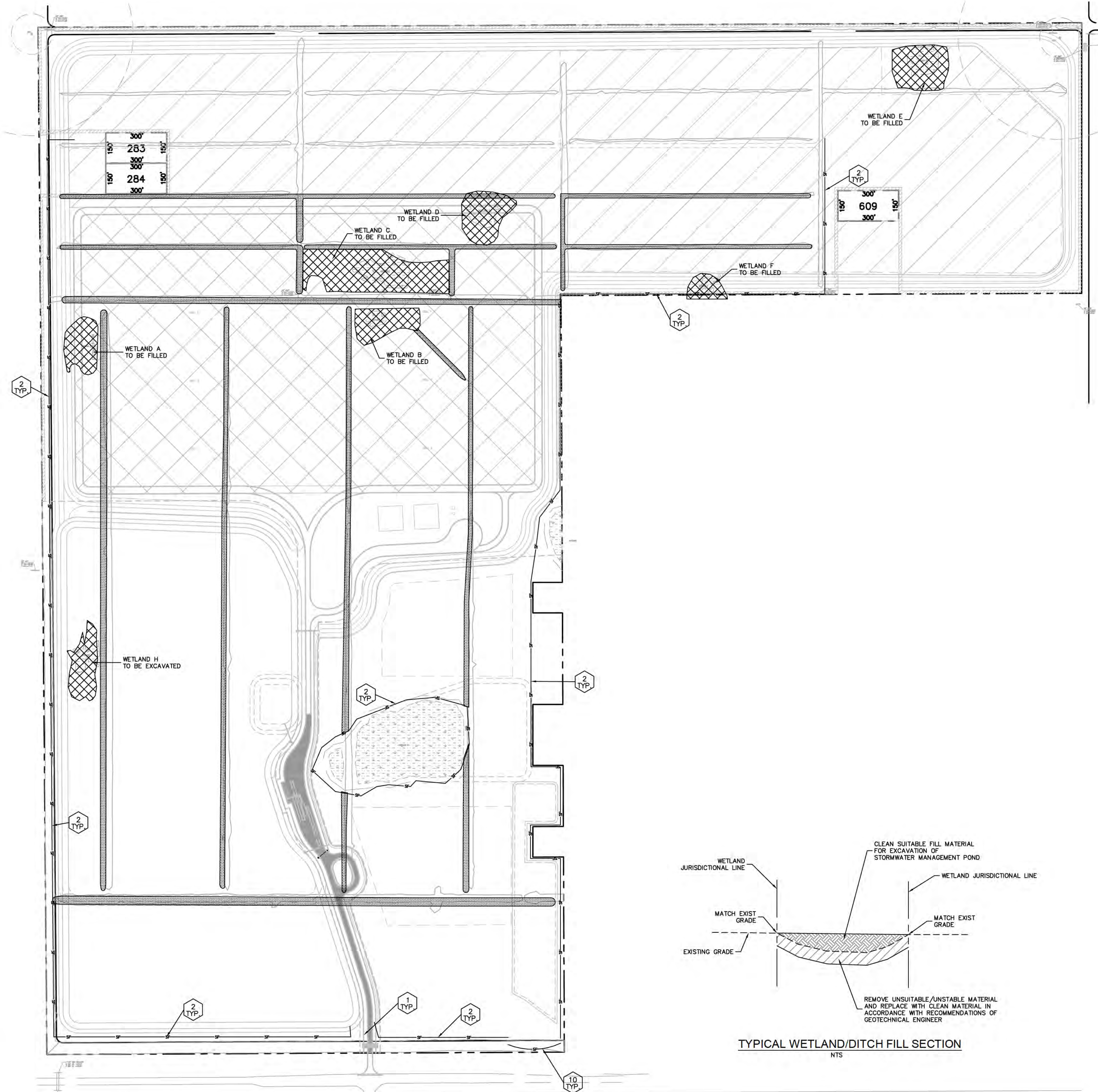
LICENSED PROFESSIONAL
 WILLIAM E. CONERLY, P.E.
 FLORIDA LICENSE NUMBER
 57414
 DATE: _____

KHA PROJECT
 148233000
 DATE
 APRIL 2015
 SCALE AS SHOWN
 DESIGNED BY
 DRAWN BY
 CHECKED BY

DESOTO RECYCLING & DISPOSAL LANDFILL
 PREPARED FOR
DESOTO RECYCLING & DISPOSAL, LLC
 DESOTO COUNTY FLORIDA

SHEET NUMBER
C-3

Plotted By: heavy, Patrick, Sheet: Set: Desoto Recycling Facility, Layout: C-4, BEST MANAGEMENT PRACTICES PLAN, September 17, 2015, 12:02:15pm, K:\SAR_Civil\148233000 - Desoto Recycling Facility\CAD\PlanSheets\C-4 BEST MANAGEMENT PRACTICES PLAN.dwg
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BEST MANAGEMENT PRACTICE GUIDELINES

- 2 TYP
TYPICAL BEST MANAGEMENT DEVICE LOCATION. SEE BMP DETAIL DRAWING FOR BMP PLACEMENT AND DETAILS. (SHEET C-5)
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL NECESSARY BMP DEVICES THROUGHOUT THE DURATION OF ALL CONSTRUCTION ACTIVITIES OR AS DIRECTED BY THE ENGINEER.
 2. PRIOR TO ANY EARTHMOVING OPERATIONS, THE CONTRACTOR SHALL INSTALL ALL REQUIRED BMP DEVICES PER SARASOTA COUNTY. ALL BMP DEVICES SHALL BE LOCATED AS SHOWN ON PLANS.
 3. ALL GRASSING BY EITHER SEED OR SOG SHALL BE INSTALLED AS SOON AS PRACTICAL UPON THE COMPLETION OF FINAL GRADING OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN ALL GRASSING IN A HEALTHY GROWING ENVIRONMENT UNTIL ACCEPTANCE BY THE ENGINEER.
 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF WIND AND DUST DURING ALL PHASES OF CONSTRUCTION BY USING WATER TRUCKS, WIND FENCING OR OTHER DEVICES AS APPROVED BY THE ENGINEER.
 5. THE CONTRACTOR SHALL BE RESPONSIBLE TO SAFELY STORE EQUIPMENT, FUEL, OIL AND OTHER HAZARDOUS DEVICES IN A MANNER TO PREVENT GREASE, OIL, FUEL AND OTHER HAZARDOUS SUBSTANCES FROM CONTAMINATING THE STORMWATER MANAGEMENT AND COLLECTION SYSTEMS AND PRESERVATION AREAS.

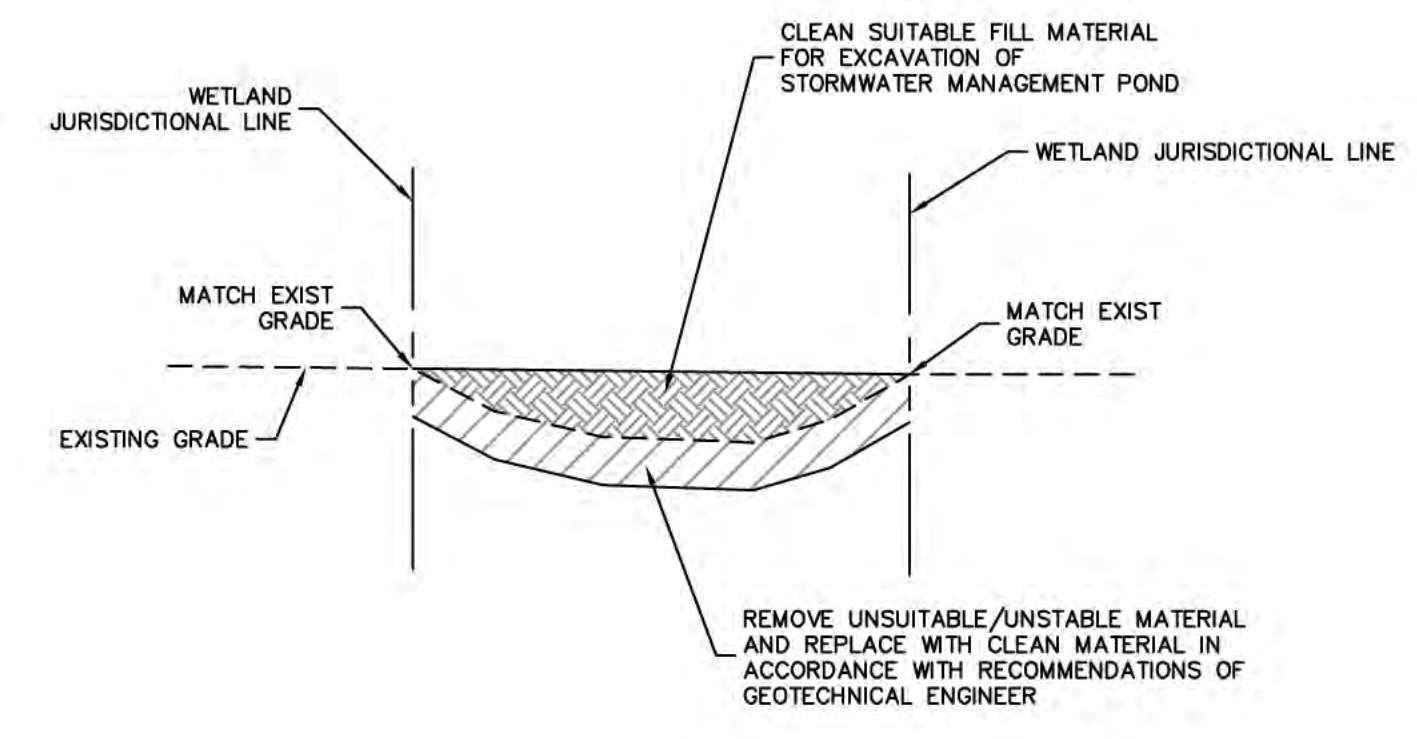
ADDITIONAL BMP MEASURES MAY BE NECESSARY TO ENSURE THAT TURBID WATER IS NOT DISCHARGED FROM THE CONSTRUCTION SITE. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING COMPLIANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN, THE N.P.D.E.S. PERMIT AND THE CONDITIONS OF THE FDEP ENVIRONMENTAL RESOURCE PERMIT

BEST MANAGEMENT PRACTICES NOTES:

1. SILT FENCE SHOWN ON THESE PLANS SHALL BE INSTALLED IN THE LOCATIONS INDICATED AND ALONG THE WETLAND BUFFER LINE UNLESS OTHERWISE NOTED ON THE PLANS. IF THERE IS A WETLAND BUFFER IMPACT, ALL SILT FENCE SHALL BE INSTALLED 2' WATER WARD OR TOP OF SLOPE AS SHOWN ON THESE PLANS. NO SILT FENCE SHALL BE INSTALLED IN PRESERVED WETLANDS OR UPLANDS EXCEPT AS PROTECTION AROUND TEMPORARY IMPACTS.
2. BEST MANAGEMENT PRACTICES SHOWN FOR OPEN THROAT AND GRATED SWALE INLETS SHALL BE INSTALLED AS APPROPRIATE FOR VARIOUS PROJECT PHASES.
3. ALL LAKES SHALL BE SOODED FROM CUL. TO 2' BACK OF LAKE CONTROL LINE (TOP OF BANK).
4. ALL CURBING, EDGE OF PAVEMENT WHERE CURB IS NOT PRESENT SHALL HAVE A 2' WIDE STRIP OF SOG.
5. ALL DRAINAGE STRUCTURES SHALL BE SOODED ALONG THE EDGE OF THE STRUCTURE 2' MINIMUM SOG WIDTH.
6. ALL DRAINAGE SWALES SHALL BE SOODED TO 2' BACK OF TOP OF BANK.
7. CONTRACTOR TO INSPECT AND REPAIR ALL BMP'S ON A DAILY BASIS. A LOG OF SUCH INSPECTIONS SHALL BE MAINTAINED AT THE SITE AND WILL BE SUBMITTED TO THE DISTRICT ON A MONTHLY BASIS.
8. ANY BMP IN NEED OF REPAIR OR REINSTALLATION SHALL BE CORRECTED BY THE CONTRACTOR WITHIN 24 HOURS OF IDENTIFICATION OF THE NEED FOR SUCH CORRECTION.
9. RECOMMENDED LOCATIONS OF THE TEMPORARY GRAVEL CONSTRUCTION ENTRANCES HAVE BEEN SHOWN ON THE PLANS. ALTERNATE LOCATIONS CAN BE PROPOSED BY THE CONTRACTOR AND SHALL BE APPROVED BY THE ENGINEER OF RECORD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR UTILIZING TEMPORARY GRAVEL CONSTRUCTION ENTRANCES PER THE DETAIL PROVIDED ON THE SHEET C-5 FOR ENTRANCES TO THE PROJECT.

DEWATERING NOTES:

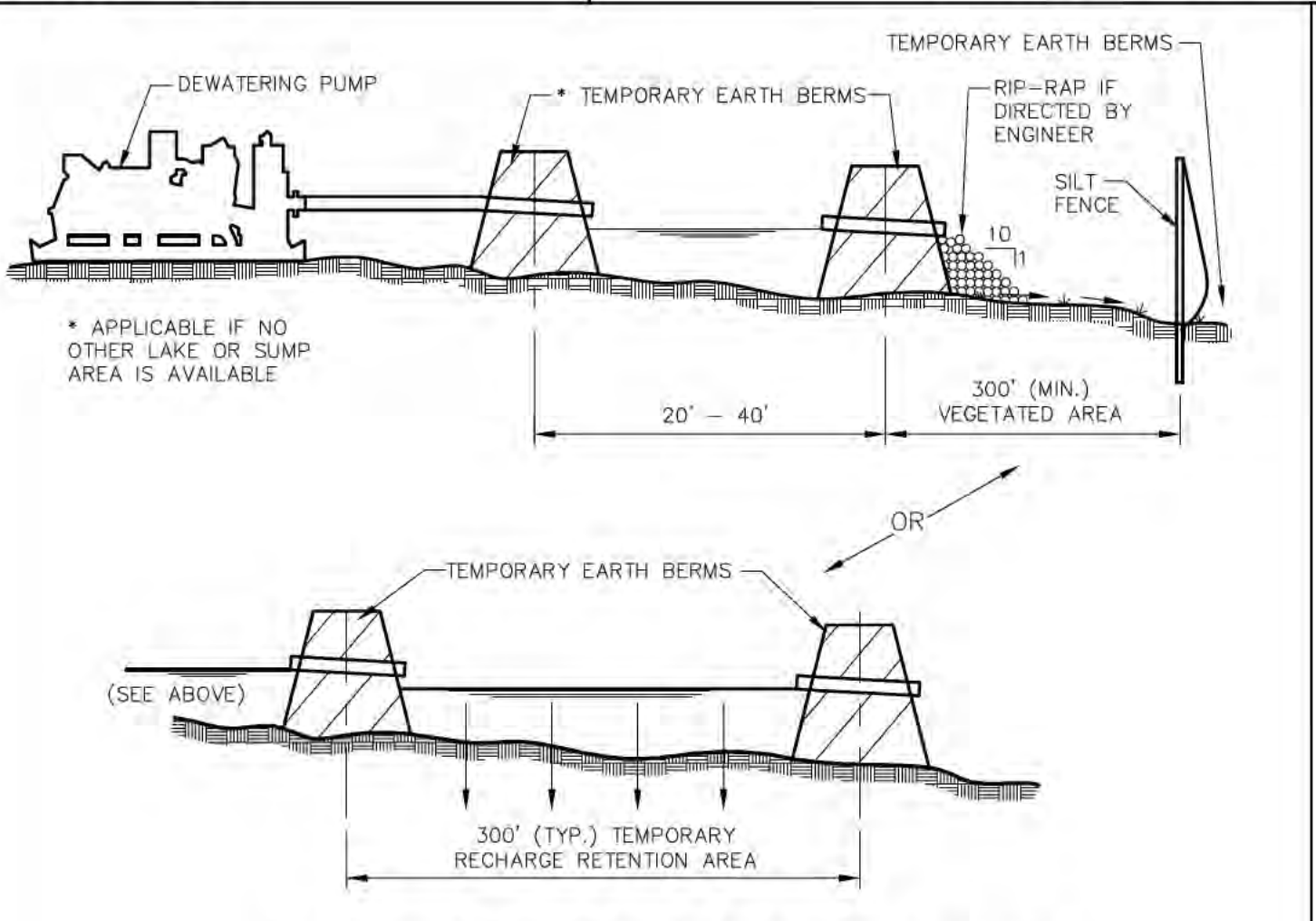
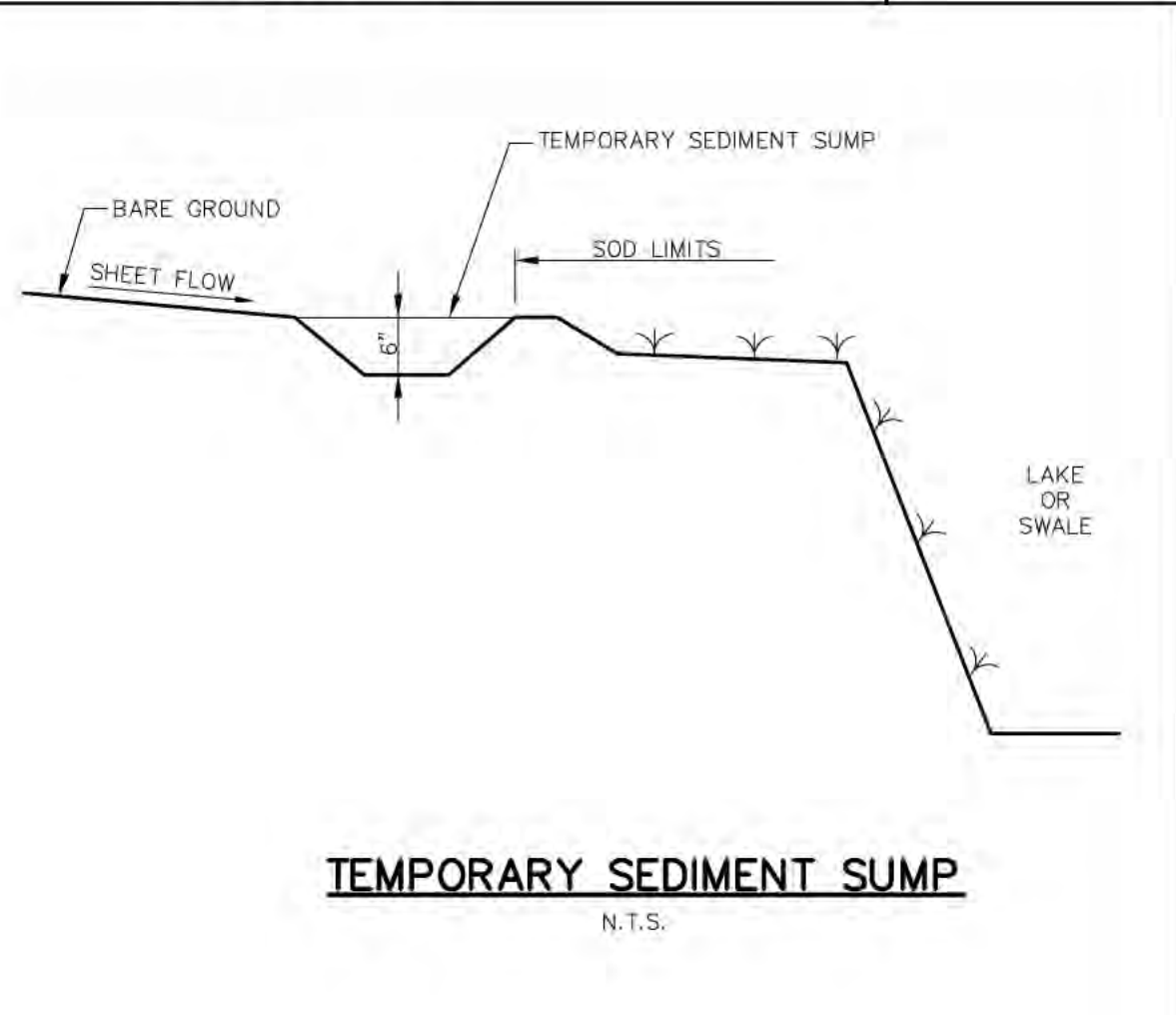
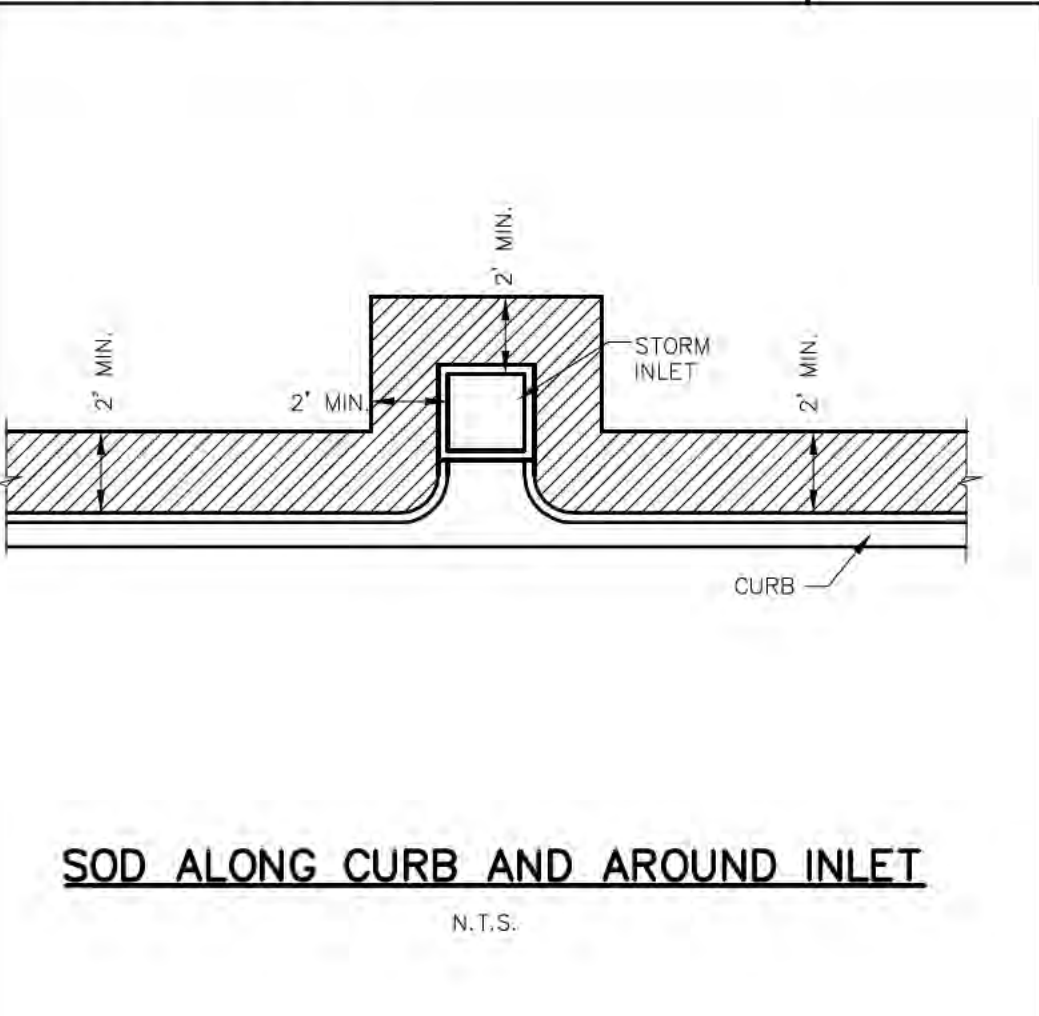
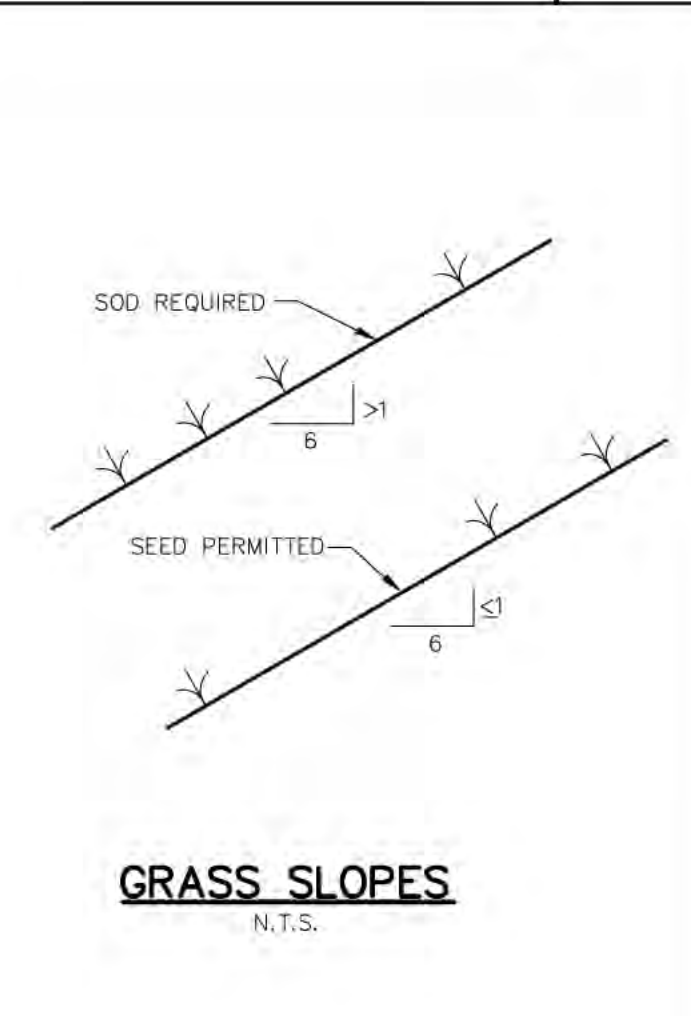
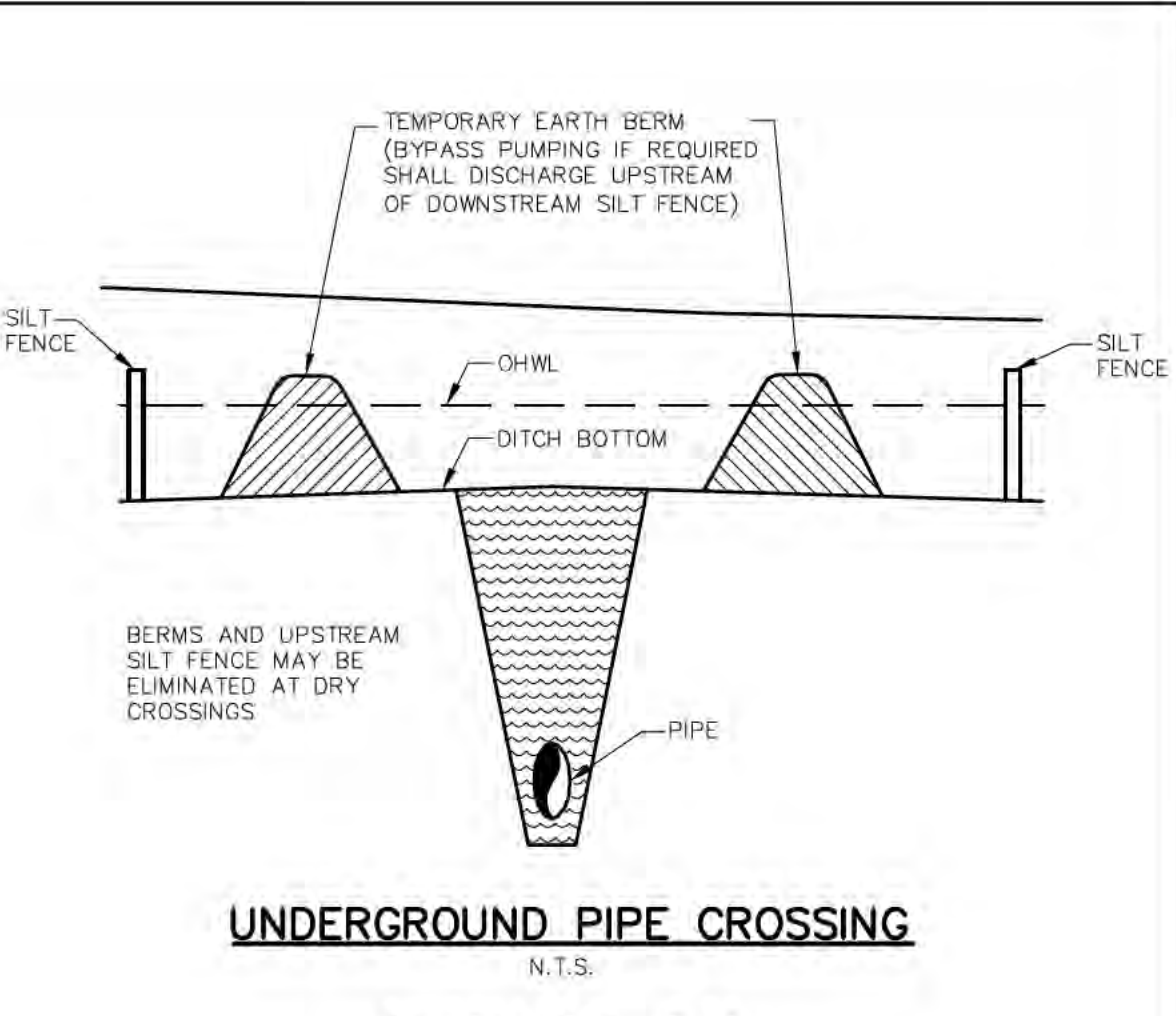
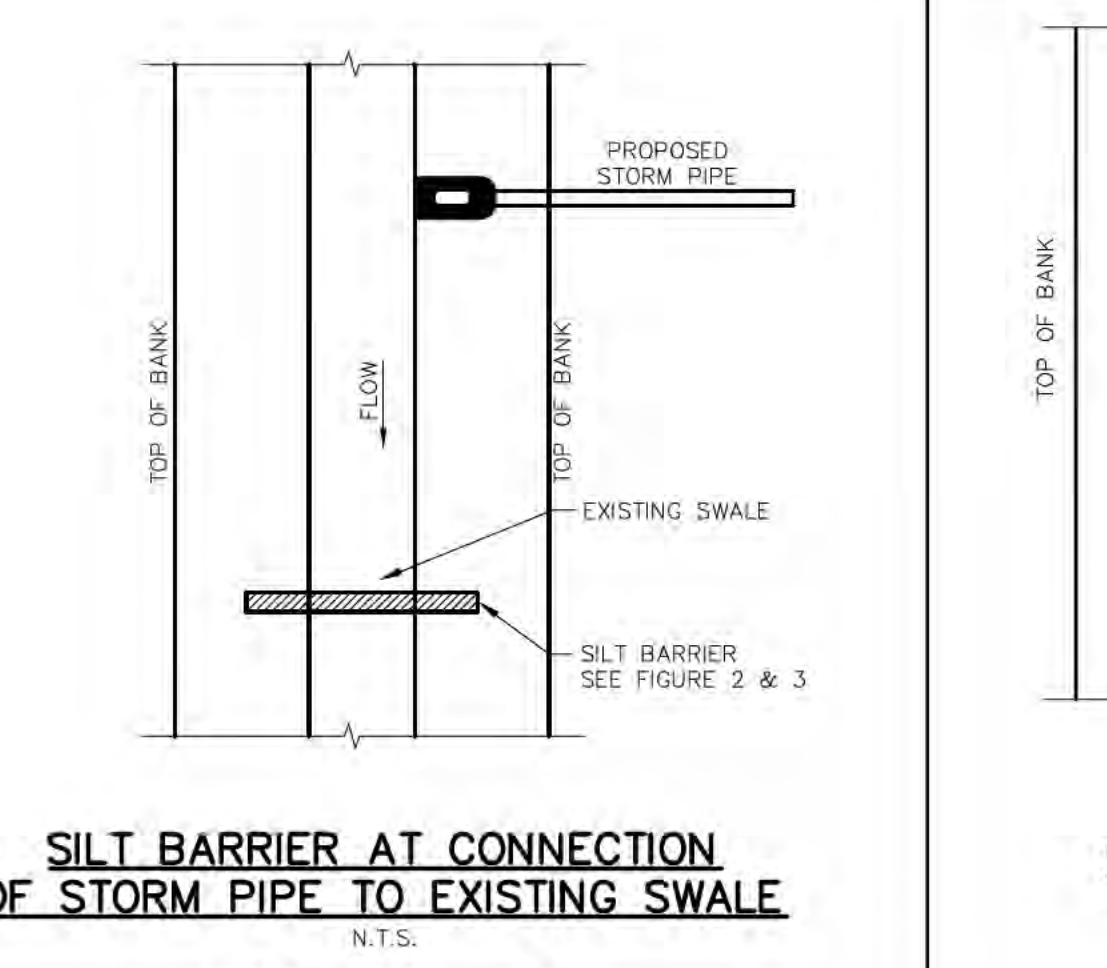
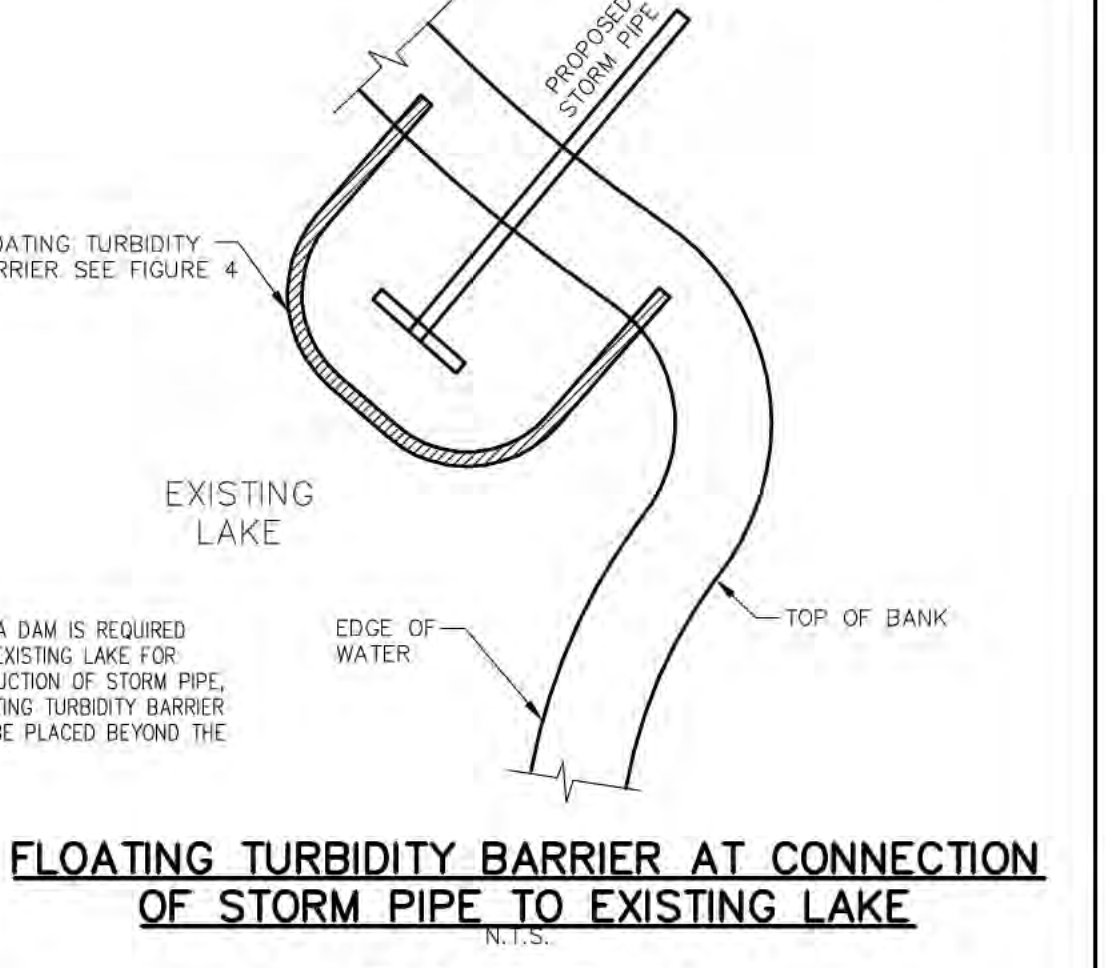
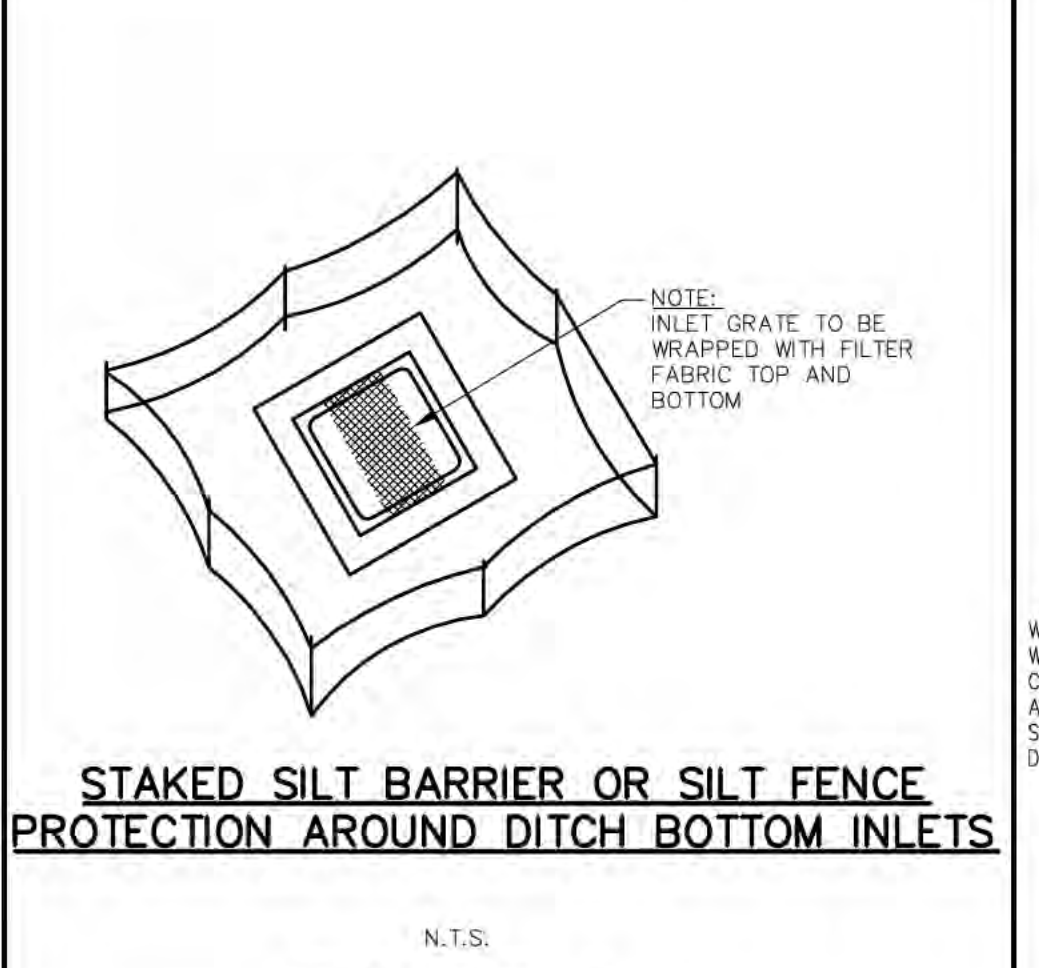
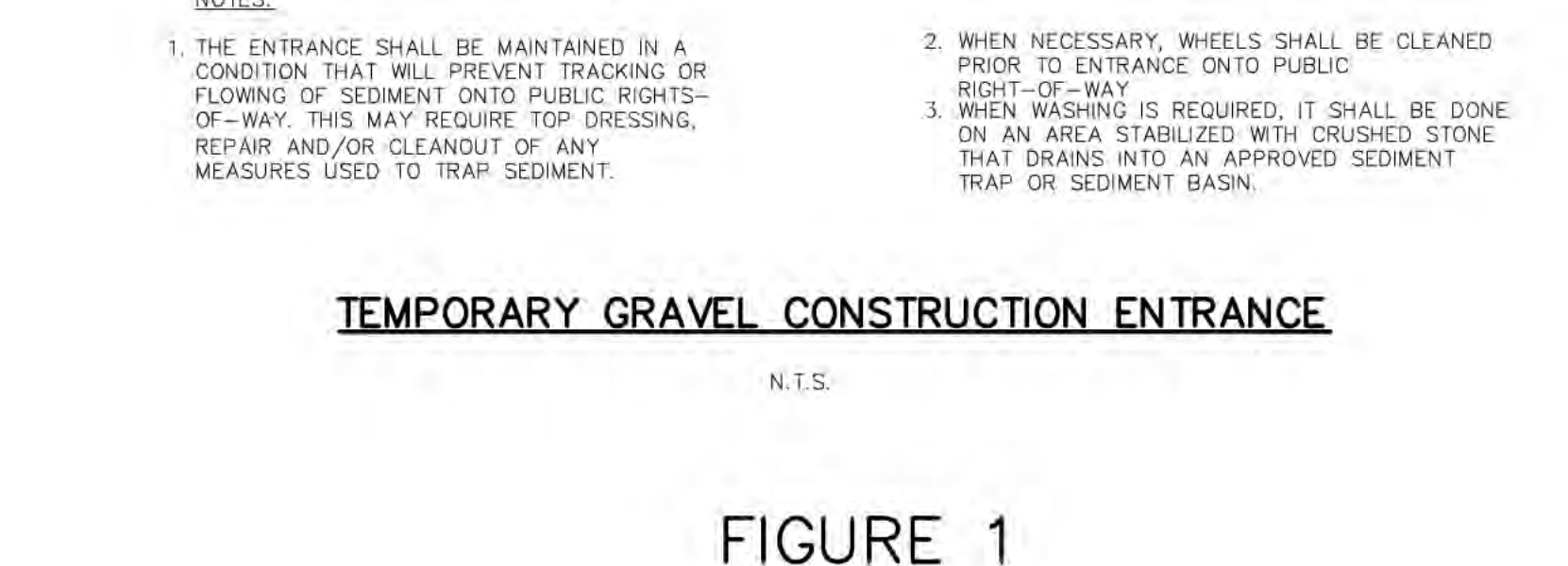
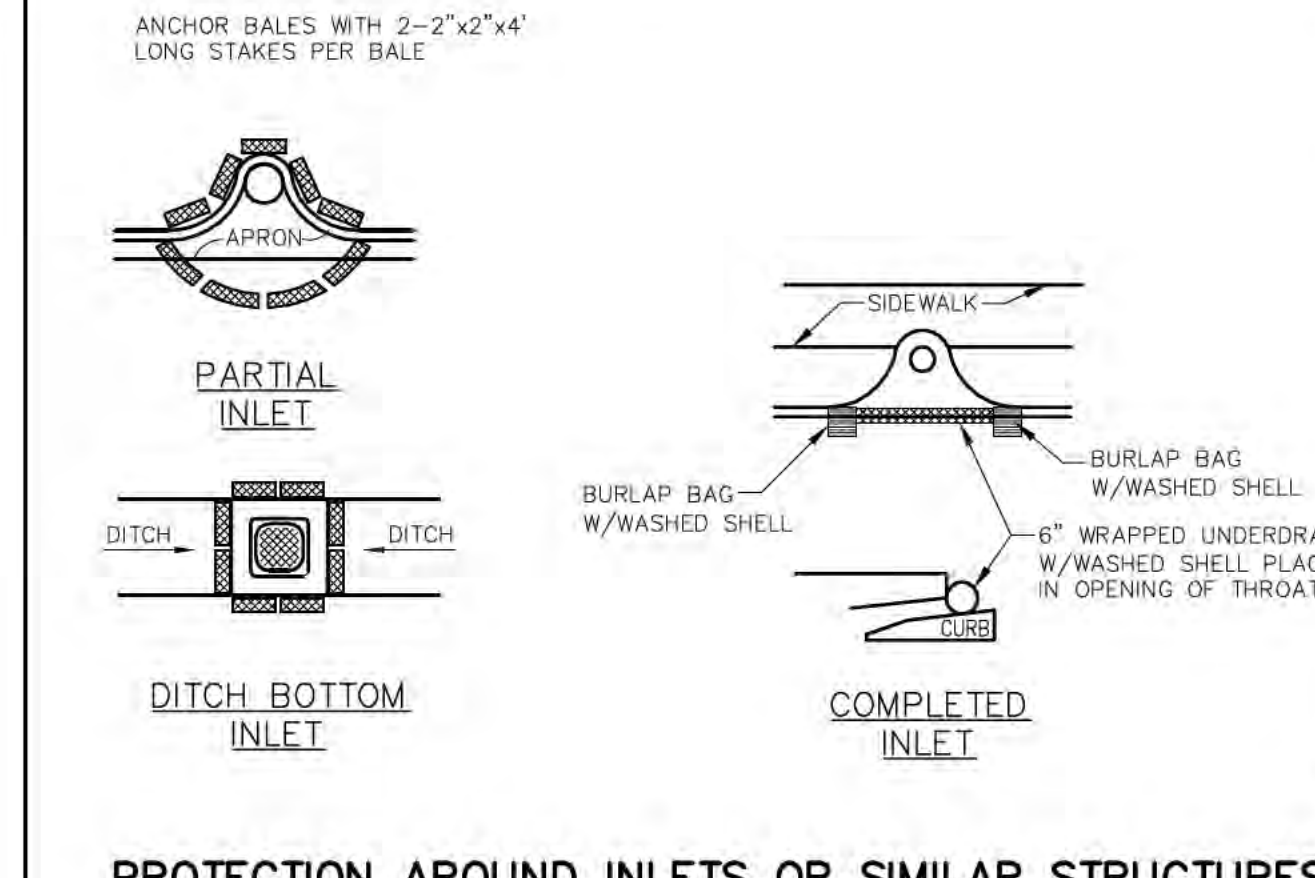
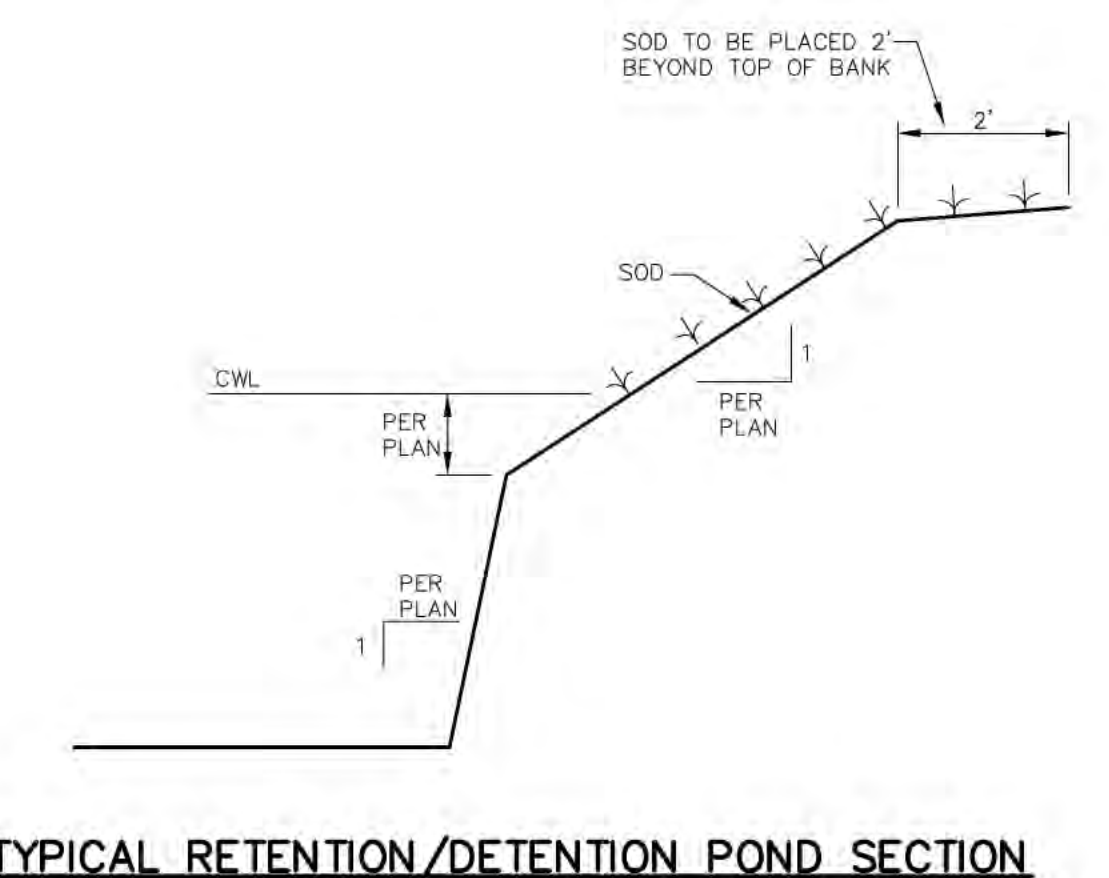
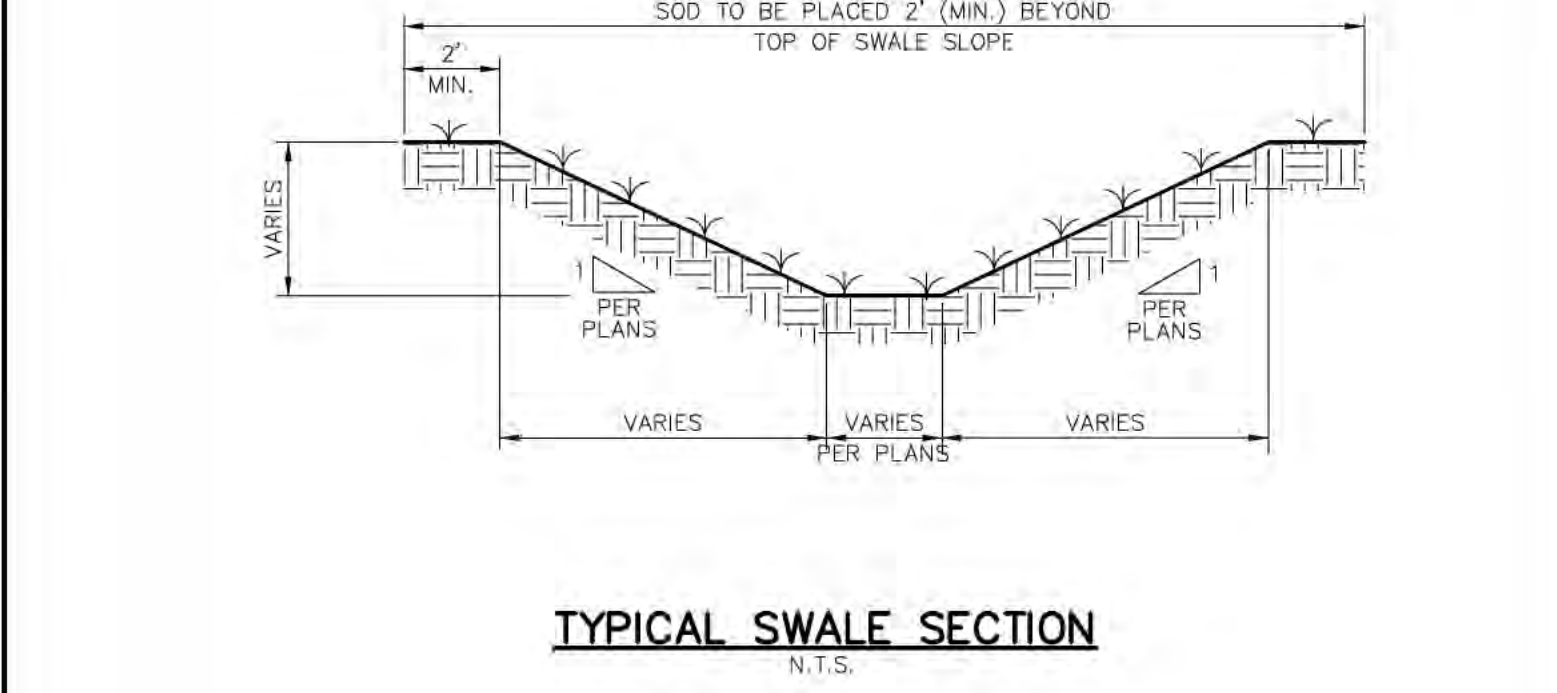
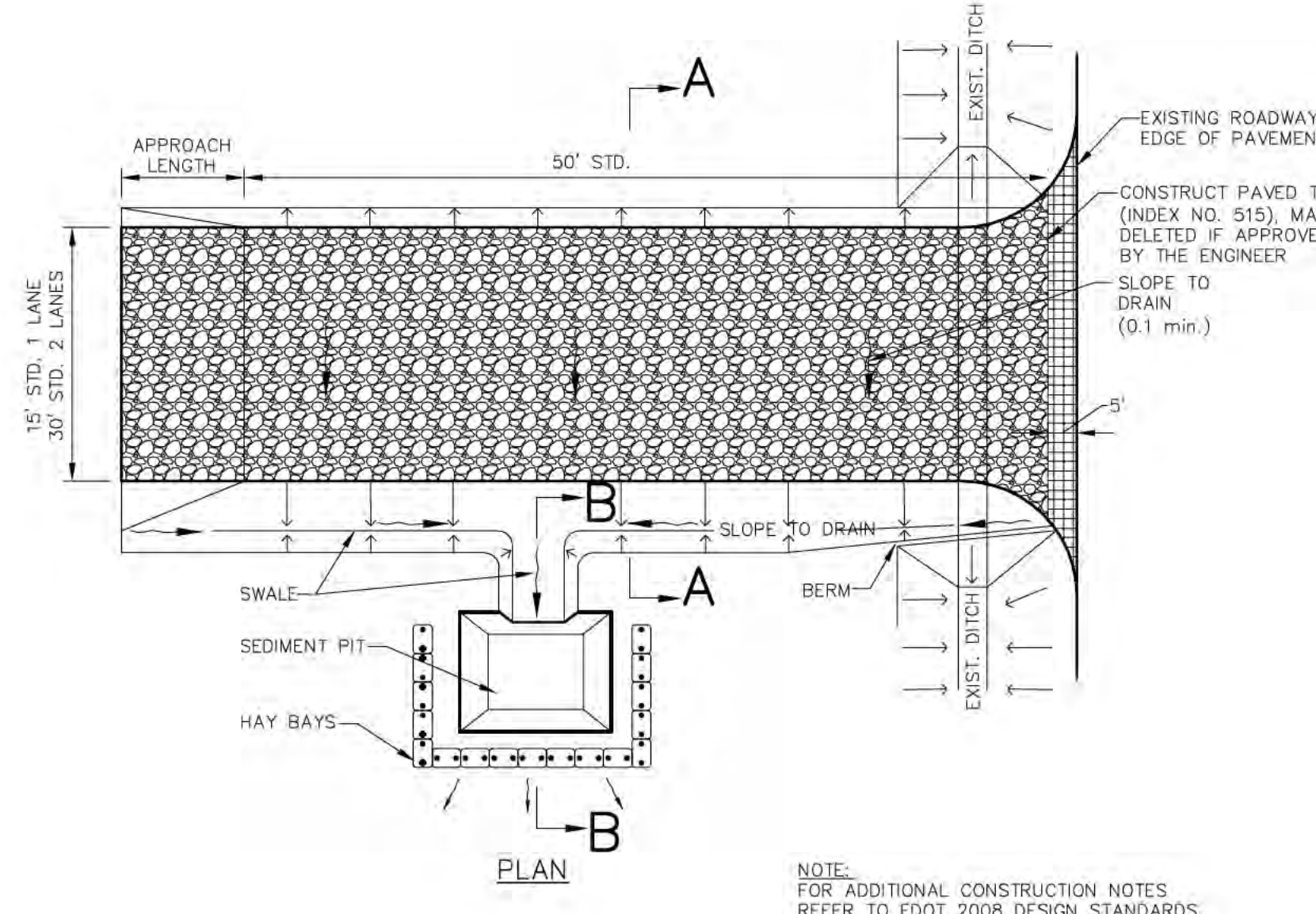
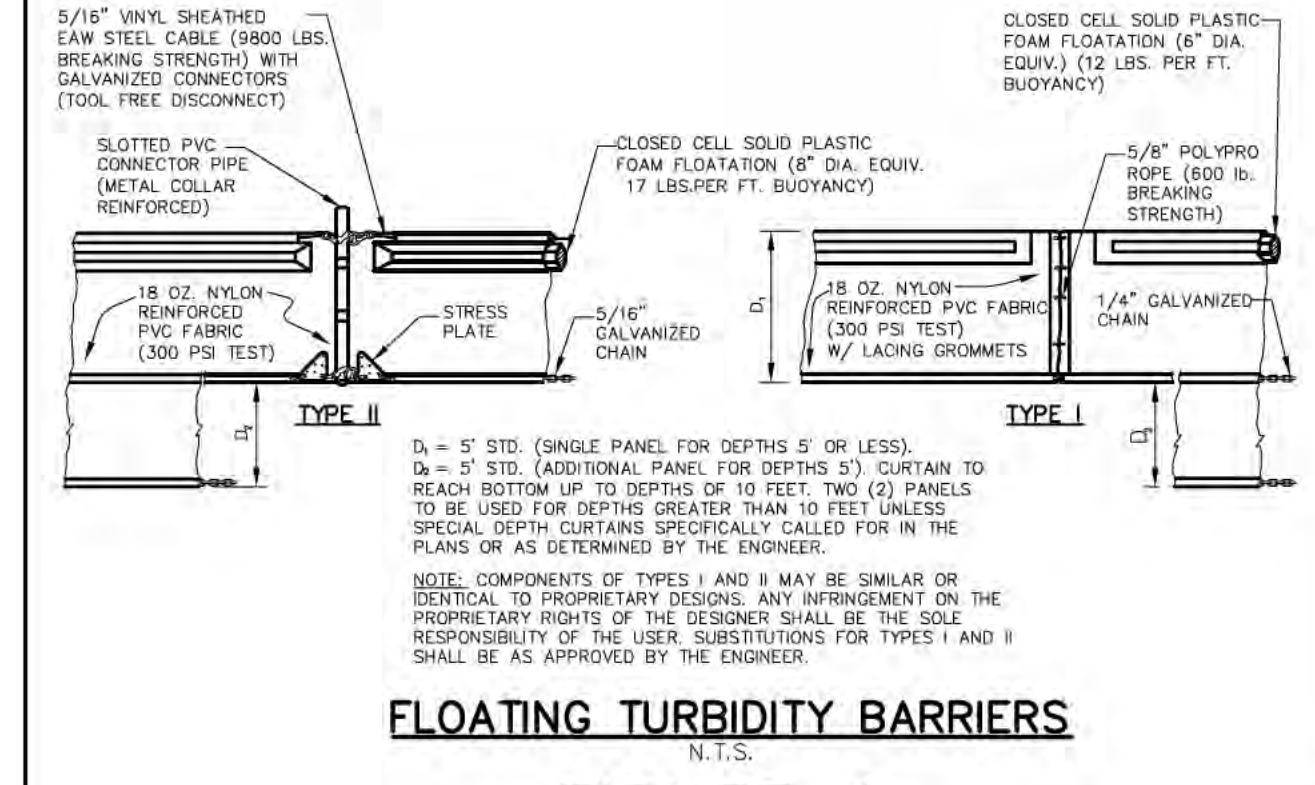
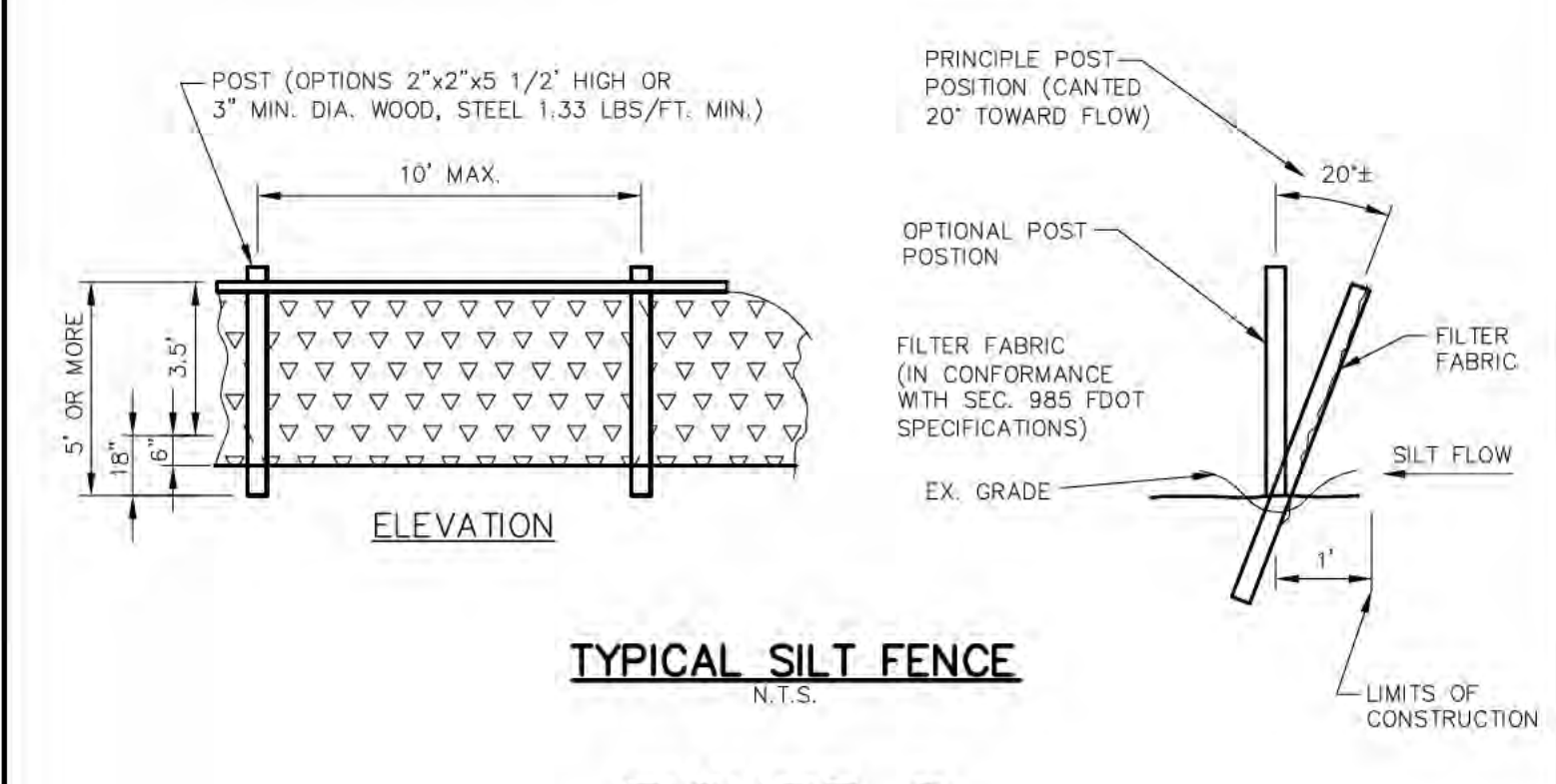
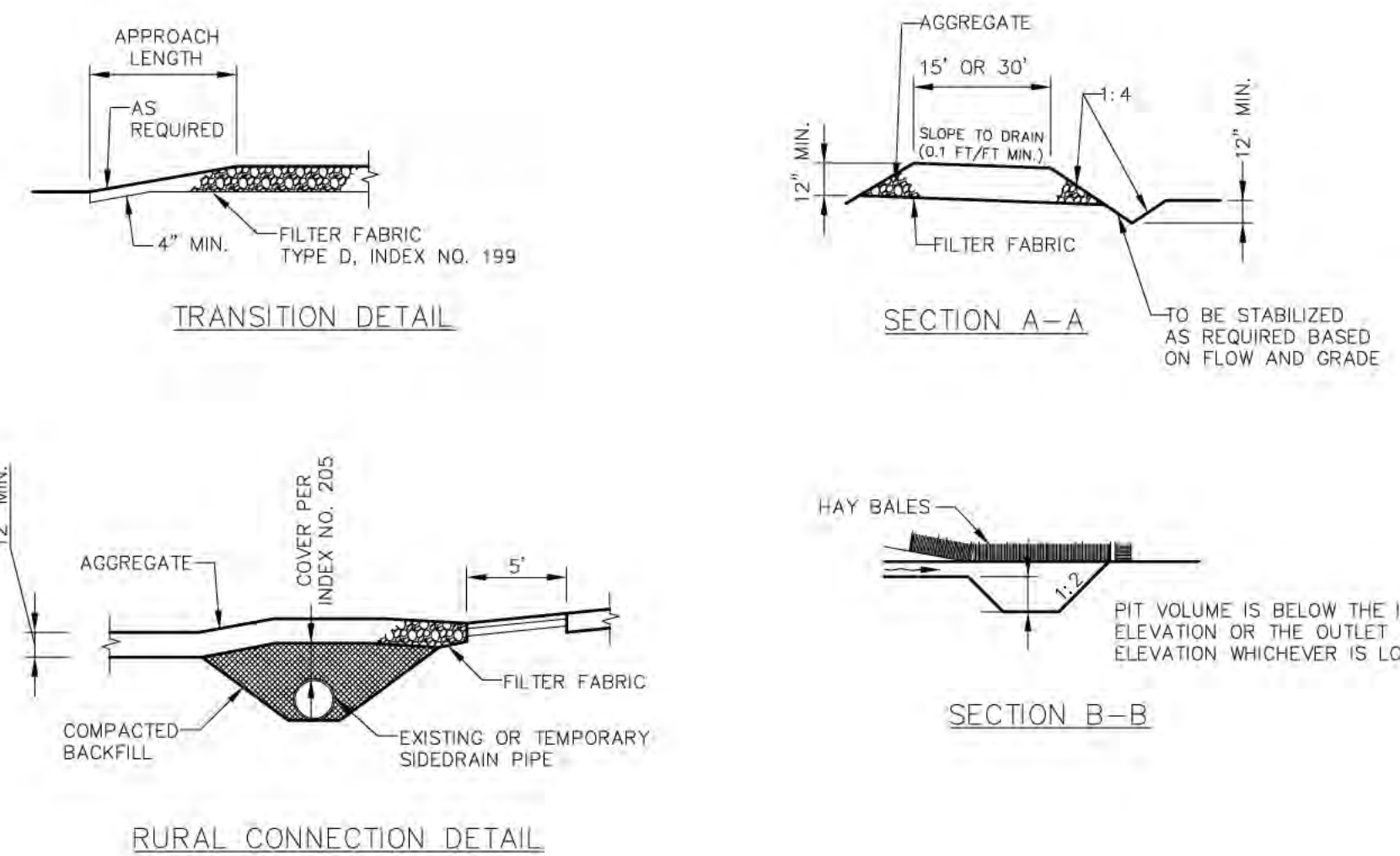
1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE ARRANGEMENT, LOCATION AND DEPTHS OF THE DEWATERING SYSTEM NECESSARY TO ACCOMPLISH THE WORK DESCRIBED ON THESE PLANS.
2. THE CONTRACTOR, IF REQUIRED, IS RESPONSIBLE FOR SUBMITTING TO THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT FOR REVIEW A DEWATERING PLAN AND SUPPORTING CALCULATIONS. THE PLAN SHALL DETAIL THE DEWATERING METHODS PROPOSED, THE DURATION OF DEWATERING, FLOW PATHS, AND POINTS OF DISCHARGE.
3. ALL WATER REMOVED FROM THE EXCAVATIONS SHALL BE DISPOSED OF IN SUCH A MANNER AS WILL NOT ENDANGER PUBLIC HEALTH, DAMAGE PUBLIC OR PRIVATE PROPERTY, OR AFFECT ADVERSELY ANY PORTION OF THE WORK UNDER CONSTRUCTION OR COMPLETED.
4. PUBLIC RIGHTS-OF-WAY AND PROPERTIES SHALL NOT BE UTILIZED FOR THE DISPOSAL OF WATER REMOVED FROM THE GROUND BY THE DEWATERING PROCESS.
5. THE METHODS AND PROVISIONS UTILIZED TO PREVENT SILTATION AND EROSION SHALL CONFORM TO CURRENT FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION PRACTICES AND REGULATIONS AND ANY OTHER LOCAL LEGAL PROVISIONS WHICH MAY APPLY. IN THE EVENT OF CONFLICTING REQUIREMENTS, THE STRICTER REQUIREMENTS SHALL APPLY.
6. SHOULD DEWATERING BE REQUIRED, CONTRACTOR IS TO FOLLOW, AT A MINIMUM, THE A DEWATERING DISCHARGE PLAN.
7. THE PUMPING RATE SHALL BE MONITORED AND ADJUSTED, IF NECESSARY IN ORDER TO PREVENT THE DISCHARGE OF TURBID WATER INTO THE PUBLIC RIGHTS-OF-WAY OR EXISTING WETLANDS.
8. NO DIRECT PUMPING DISCHARGE IS PERMITTED INTO ANY EXISTING WETLANDS.



TYPICAL WETLAND/DITCH FILL SECTION
NTS

<h1 style="margin: 0;">Kimley»Horn</h1> <p style="font-size: small; margin: 0;">© 2015 KIMLEY-HORN AND ASSOCIATES, INC. 1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236 PHONE: 941-379-7600 WWW.KIMLEY-HORN.COM CA 00000896</p>	REVISIONS No. _____ DATE _____ BY _____
LICENSED PROFESSIONAL WILLIAM E. CONERLY, P.E. FLORIDA LICENSE NUMBER 57414 DATE: _____	
KHA PROJECT 148233000 DATE APRIL 2015 SCALE AS SHOWN DESIGNED BY DRAWN BY CHECKED BY	<h2 style="margin: 0;">BEST MANAGEMENT PRACTICES PLAN</h2>
DESOTO RECYCLING & DISPOSAL LANDFILL PREPARED FOR DESOTO RECYCLING & DISPOSAL, LLC DESOTO COUNTY FLORIDA	
SHEET NUMBER <h1 style="font-size: 2em; margin: 0;">C-4</h1>	

Plotted By: Heavy, Patrick - Sheet: Sedimentation/Recycling Facility - C-5 BEST MANAGEMENT PRACTICES DETAILS - September 17, 2015 12:03:22pm - K:\ASAR_Civil\148233000 - Desoto Recycling Facility\CAD\PlanSheets\C-5 BEST MANAGEMENT PRACTICES DETAILS.dwg
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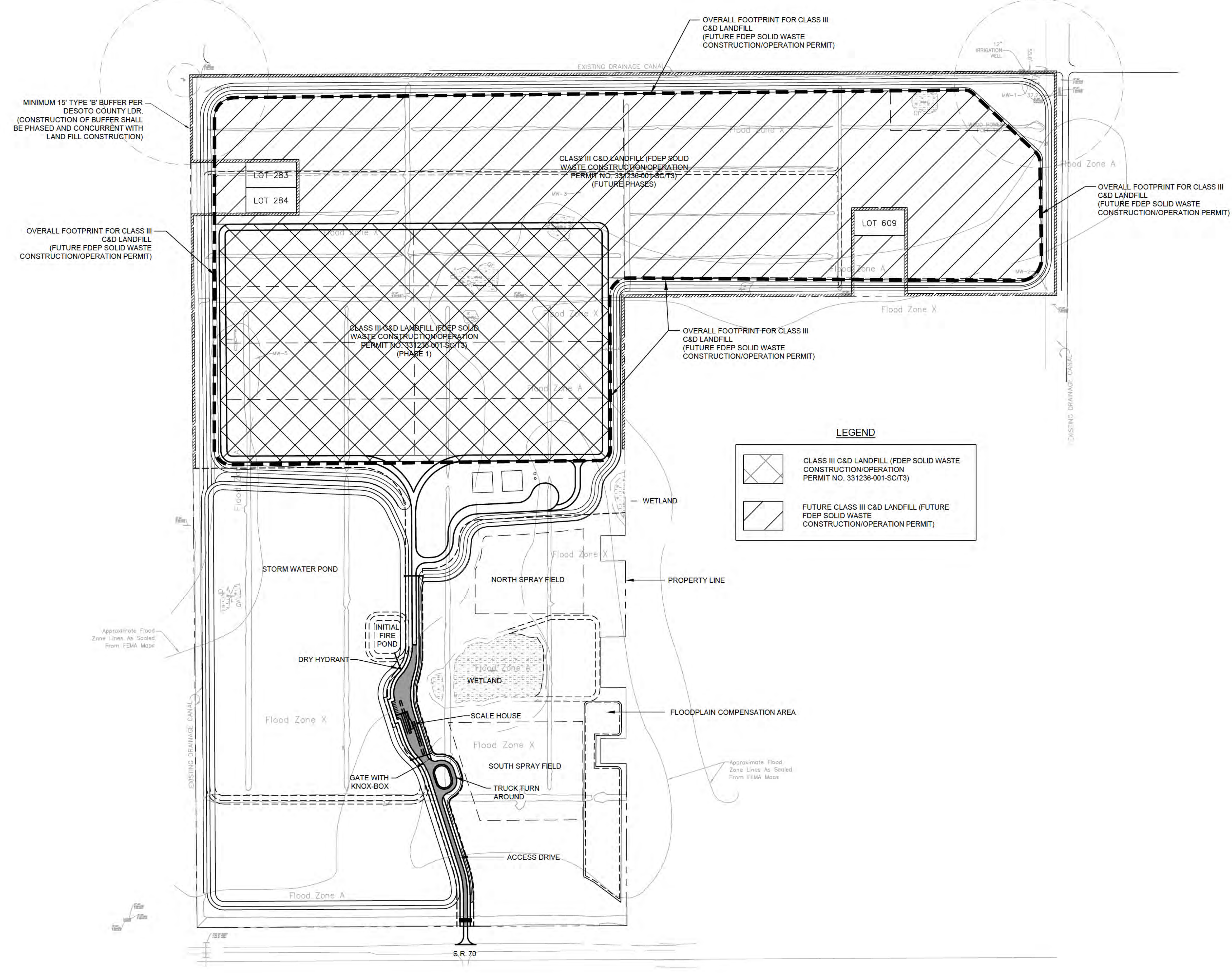
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 WILLIAM E. CONERLY, P.E.
 FLORIDA LICENSE NUMBER 57414
 DATE: _____

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 KHA PROJECT 148233000
 DATE APRIL 2015
 SCALE AS SHOWN
 DESIGNED BY _____
 DRAWN BY _____
 CHECKED BY _____

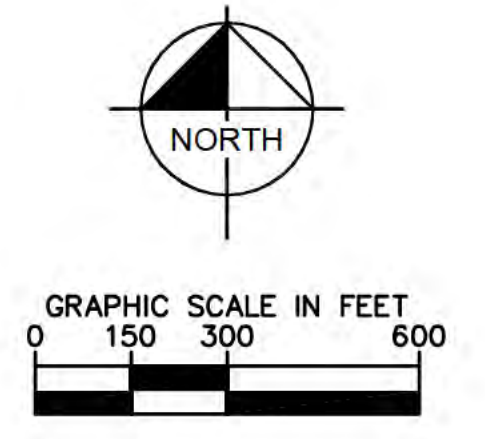
DESOTO RECYCLING & DISPOSAL LANDFILL
 PREPARED FOR DESOTO RECYCLING & DISPOSAL, LLC
 DESOTO COUNTY FLORIDA
 SHEET NUMBER C-5
 Date: _____
 Owner's signature _____
 Print Name _____

Plotted By: Healy, Patrick Sheet: DesotoRecyclingFacility_Layout: C-6 OVERALL SITE PLAN September 17, 2015 12:04:52pm K:\SAR_Civil\148233000 - Desoto Recycling Facility\CAD\PlanSheets\C-6 OVERALL SITE PLAN.dwg
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LEGEND

	CLASS III C&D LANDFILL (FDEP SOLID WASTE CONSTRUCTION/OPERATION PERMIT NO. 331236-001-SC(T3))
	FUTURE CLASS III C&D LANDFILL (FUTURE FDEP SOLID WASTE CONSTRUCTION/OPERATION PERMIT)



- NOTES:**
- POTABLE WATER SERVICE WILL BE PROVIDED BY EXTENDING SERVICE FROM AN EXISTING WELL.
 - SANITARY SEWER SERVICE WILL BE PROVIDED WITH AN ONSITE SEPTIC SYSTEM (BY OTHERS).
 - THE INITIAL FIRE POND SIZE SHALL BE A MINIMUM OF 1 ACRE. THE FIRE POND AND ASSOCIATED DRY HYDRANT SHALL BE CONSTRUCTED AND OPERATIONAL PRIOR TO THE FACILITY OPENING. AS THE REMAINING POND IS CONSTRUCTED, THE INITIAL POND WILL BE EXPANDED, BUT AT ALL TIMES, THE MINIMUM VOLUME OF AVAILABLE FIRE FIGHTING WATER WILL BE MAINTAINED.
 - ALL FACILITY DRIVES AND ACCESS ROADS SHALL COMPLY WITH NFPA 1, SECTION 18.2, "FIRE DEPARTMENT ACCESS."

STATEMENT OF OPERATION AND STRATEGY FOR FIRE SUPPRESSION AND FIREFIGHTING

THE OPERATION PERMIT REQUIRES THE WASTE AND CONSTRUCTION DEBRIS, TRUCKED TO THE FACILITY, BE COVERED AT THE END OF EACH WORK WEEK, AT A MINIMUM.

THERE WILL BE EARTHMOVING EQUIPMENT AND SUITABLE FILL MATERIAL ONSITE AND AVAILABLE FOR FIRE SUPPRESSION AND FIREFIGHTING, AS WELL AS FOR THE DAILY OPERATION. FACILITY PERSONNEL WILL BE TRAINED IN THE METHODS AND PRACTICES OF FIRE SUPPRESSION AND FIREFIGHTING, AS REQUIRED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S SOLID WASTE CONSTRUCTION/OPERATION PERMIT.

FIREFIGHTING WATER WILL BE PROVIDED VIA A DRY HYDRANT INTO FIRE POND. THE INITIAL FIRE POND, CONSTRUCTED AND OPERATIONAL PRIOR TO THE FACILITY OPENING, WILL BE A MINIMUM OF 1 ACRE AND CONSTRUCTED TO A DEPTH OF APPROXIMATELY 15' AND DESIGNED TO DELIVER 1,000 GPM. AS THE FACILITY OPERATES, THE STORMWATER POND WILL BE EXPANDED AND EVENTUALLY ENCOMPASS THE INITIAL FIRE POND. WHEN THE STORMWATER POND IS FULLY CONSTRUCTED, THERE WILL BE APPROXIMATELY 65 ACRES OF WATER AT A DEPTH OF 15' AVAILABLE FOR FIRE WATER.

IN ADDITION TO THE EARTHMOVING EQUIPMENT, THERE WILL BE A WATER TANKER TRUCK ONSITE AND AVAILABLE FOR THE FIRE SUPPRESSION AND FIREFIGHTING. THE TANKER TRUCK WILL BE AN ALL-TERRAIN ARTICULATED TRUCK WITH A 5,000 GALLON TANK AND A 1000 GPM PUMP AND WATER CANNON.

No.	REVISIONS	DATE	BY

Kimley»Horn

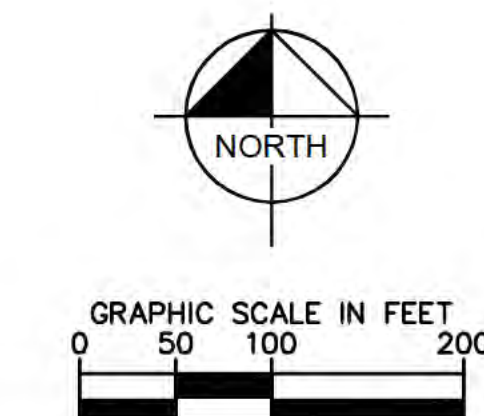
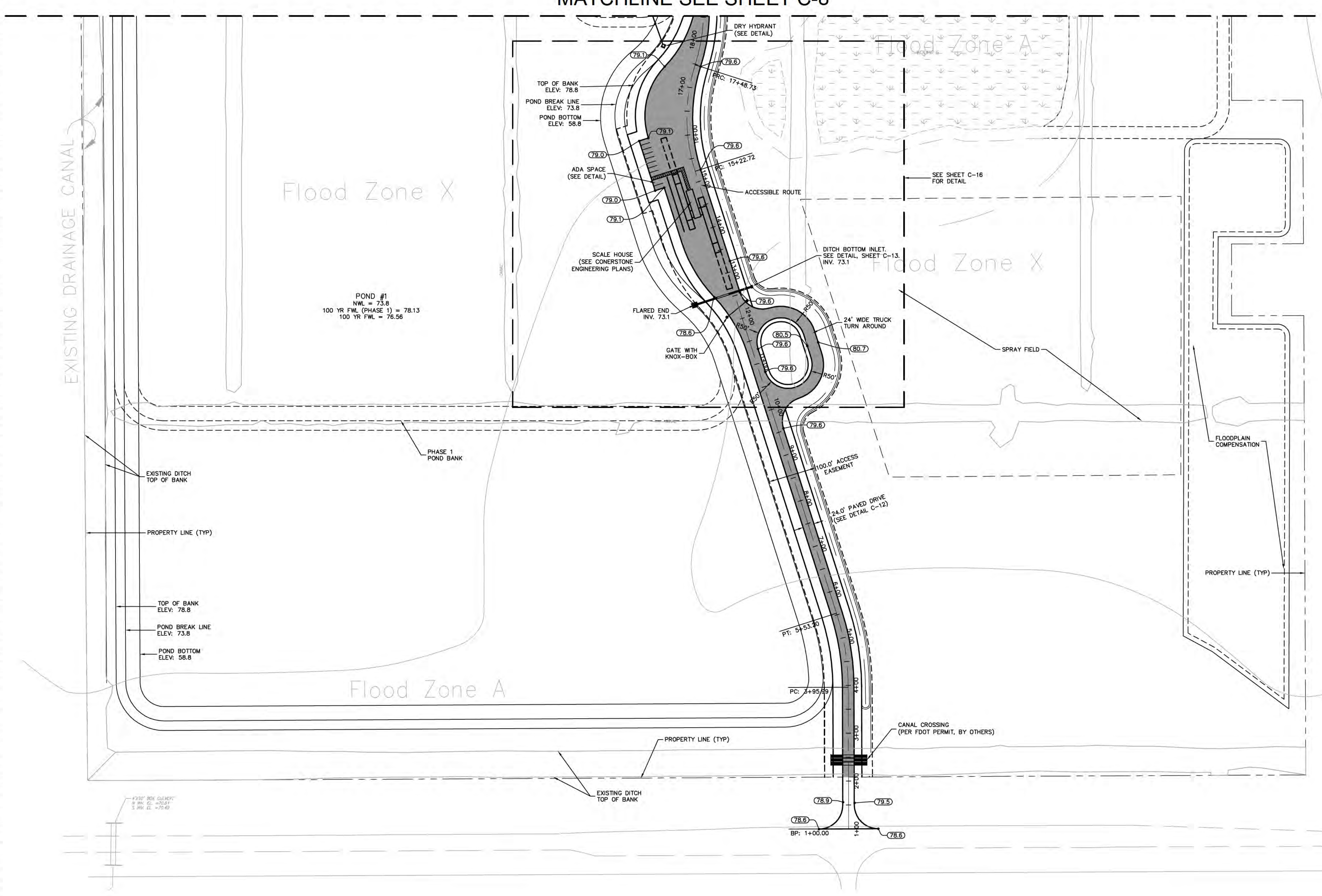
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 PHONE: 941-379-7600
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LICENSED PROFESSIONAL	WILLIAM E. CONERY, P.E.
KHA PROJECT	148233000
DATE	APRIL 2015
SCALE	AS SHOWN
DESIGNED BY	
DRAWN BY	
CHECKED BY	
FLORIDA LICENSE NUMBER	57414
DATE:	

OVERALL SITE PLAN

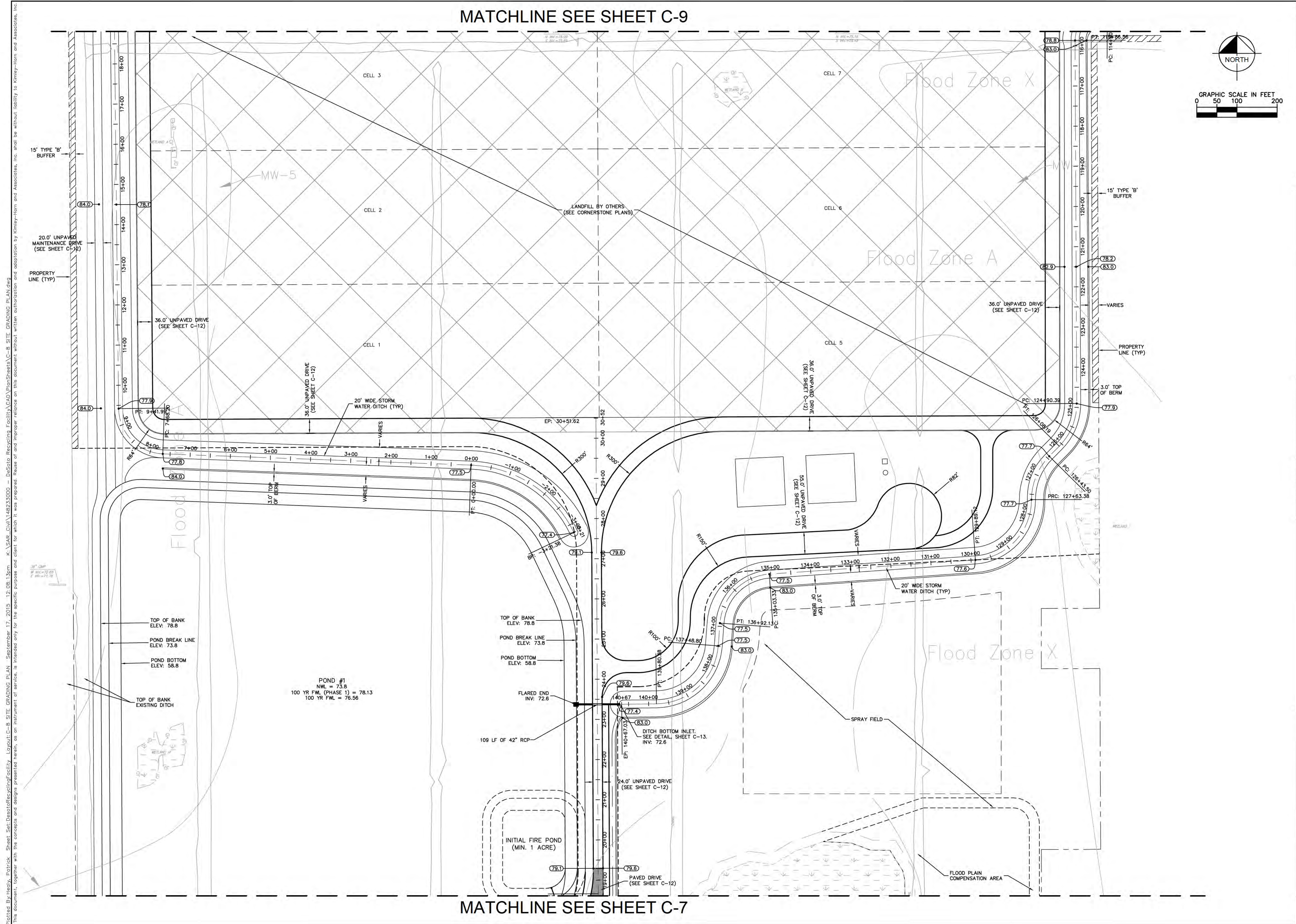
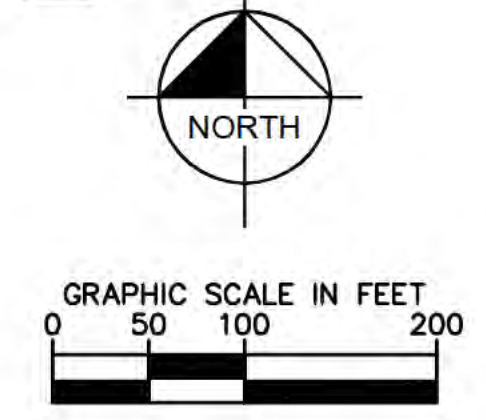
DESOTO RECYCLING & DISPOSAL LANDFILL
 PREPARED FOR
DESOTO RECYCLING & DISPOSAL, LLC
 DESOTO COUNTY FLORIDA

Plotted By: Healy, Patrick. Sheet: Desoto Recycling Facility. Layout: C-7 SITE GRADING PLAN. September 17, 2015 12:06:31pm. K:\SAR-DWA\148233000 - Desoto Recycling Facility\CAD\PlanSheets\C-7 SITE GRADING PLAN.dwg
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		DESOTO RECYCLING & DISPOSAL LANDFILL PREPARED FOR DESOTO RECYCLING & DISPOSAL, LLC <small>DESOTO COUNTY FLORIDA</small>	SITE GRADING PLAN	REVISIONS No. _____ DATE _____

MATCHLINE SEE SHEET C-9



MATCHLINE SEE SHEET C-7

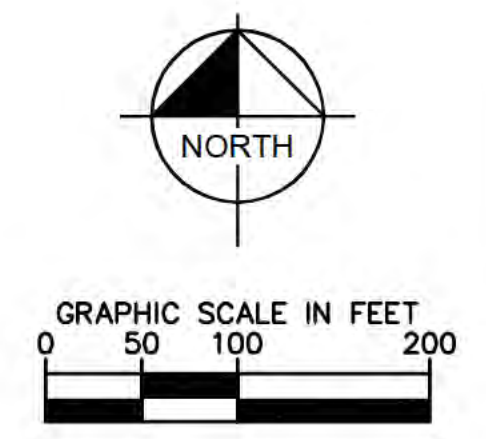
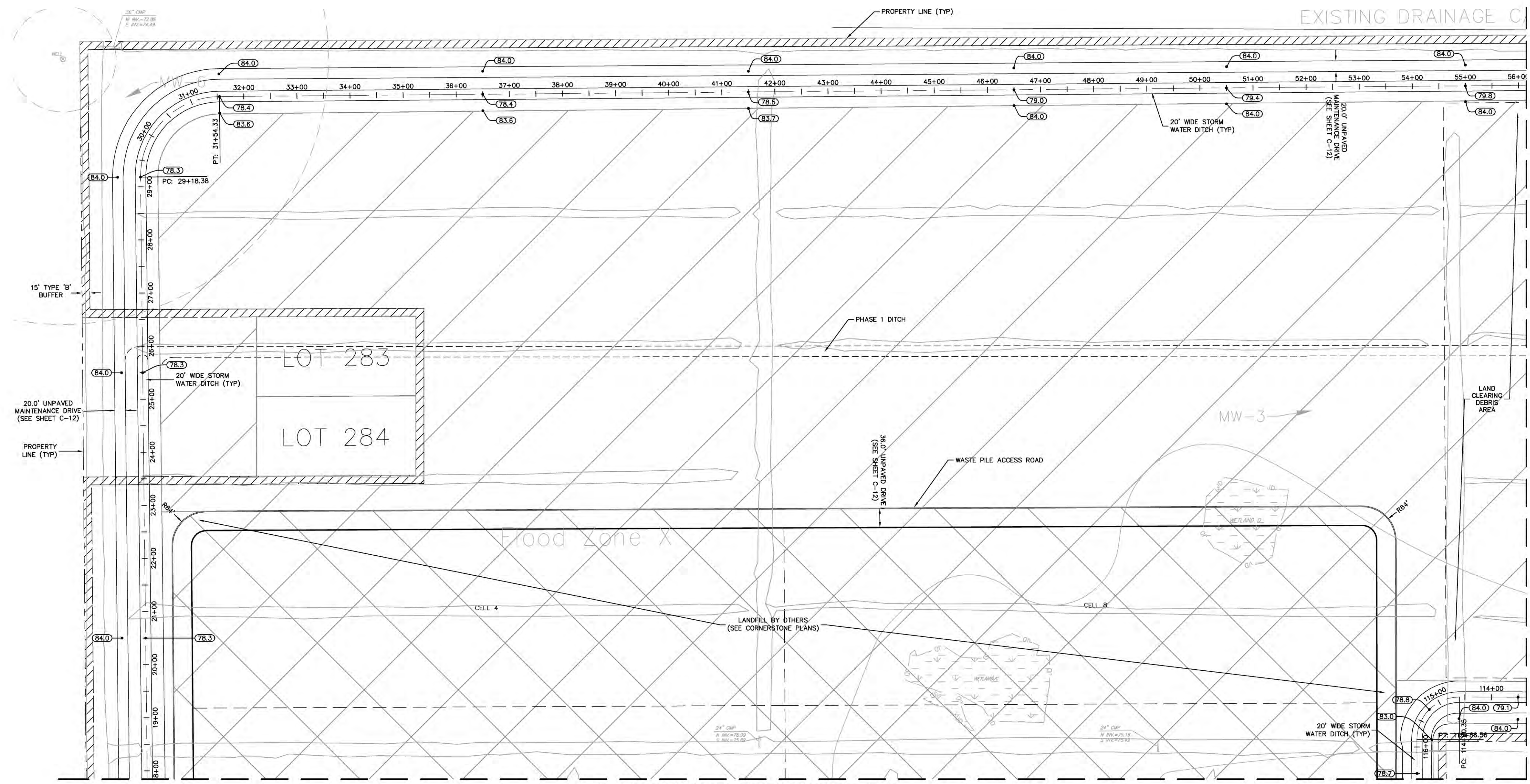
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DESOTO RECYCLING & DISPOSAL LANDFILL		SHEET NUMBER	
PREPARED FOR		C-8	
DESOTO RECYCLING & DISPOSAL, LLC			
DESOTO COUNTY			
FLORIDA			
KHA PROJECT		148233000	
DATE		APRIL 2015	
SCALE		AS SHOWN	
DESIGNED BY		WILLIAM E. CONERY, P.E.	
DRAWN BY		FLORIDA LICENSE NUMBER	
CHECKED BY		57414	
LICENSED PROFESSIONAL		DATE	
WILLIAM E. CONERY, P.E.			
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1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236		PHONE: 941-379-7600	
REVISIONS		DATE	
No.			

DESOTO RECYCLING & DISPOSAL LANDFILL PREPARED FOR DESOTO RECYCLING & DISPOSAL, LLC DESOTO COUNTY FLORIDA

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LICENSED PROFESSIONAL
 WILLIAM E. CONERLY, P.E.
 FLORIDA LICENSE NUMBER
 57414
 DATE: _____

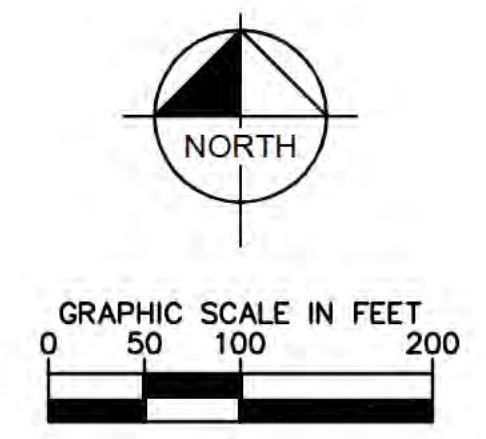
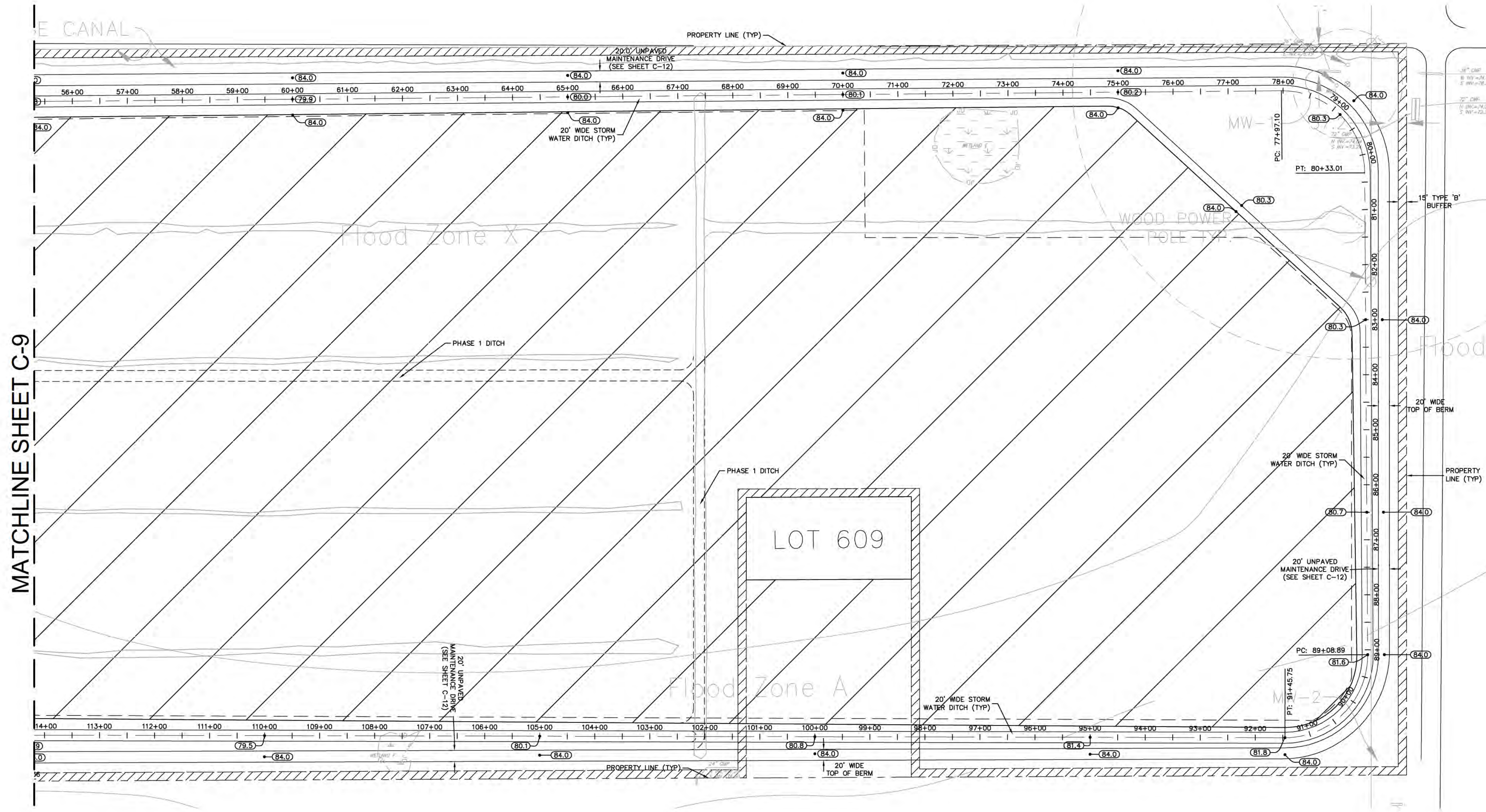
KHA PROJECT
 148233000
 DATE
 APRIL 2015
 SCALE AS SHOWN
 DESIGNED BY
 DRAWN BY
 CHECKED BY

DESOTO RECYCLING & DISPOSAL LANDFILL
 PREPARED FOR
DESOTO RECYCLING & DISPOSAL, LLC
 DESOTO COUNTY FLORIDA

SHEET NUMBER
C-9

Plotted By: Healy, Patrick Sheet: DesotoRecyclingFacility_Layout: C-10 SITE GRADING PLAN September 17, 2015 12:11:00pm K:\SAR_Civil\148233000 - Desoto Recycling Facility\CAD\PlanSheets\C-10 SITE GRADING PLAN.dwg
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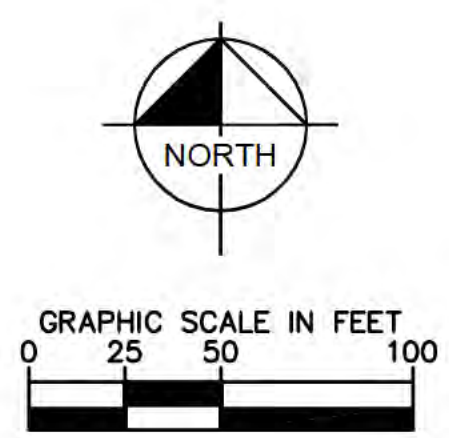
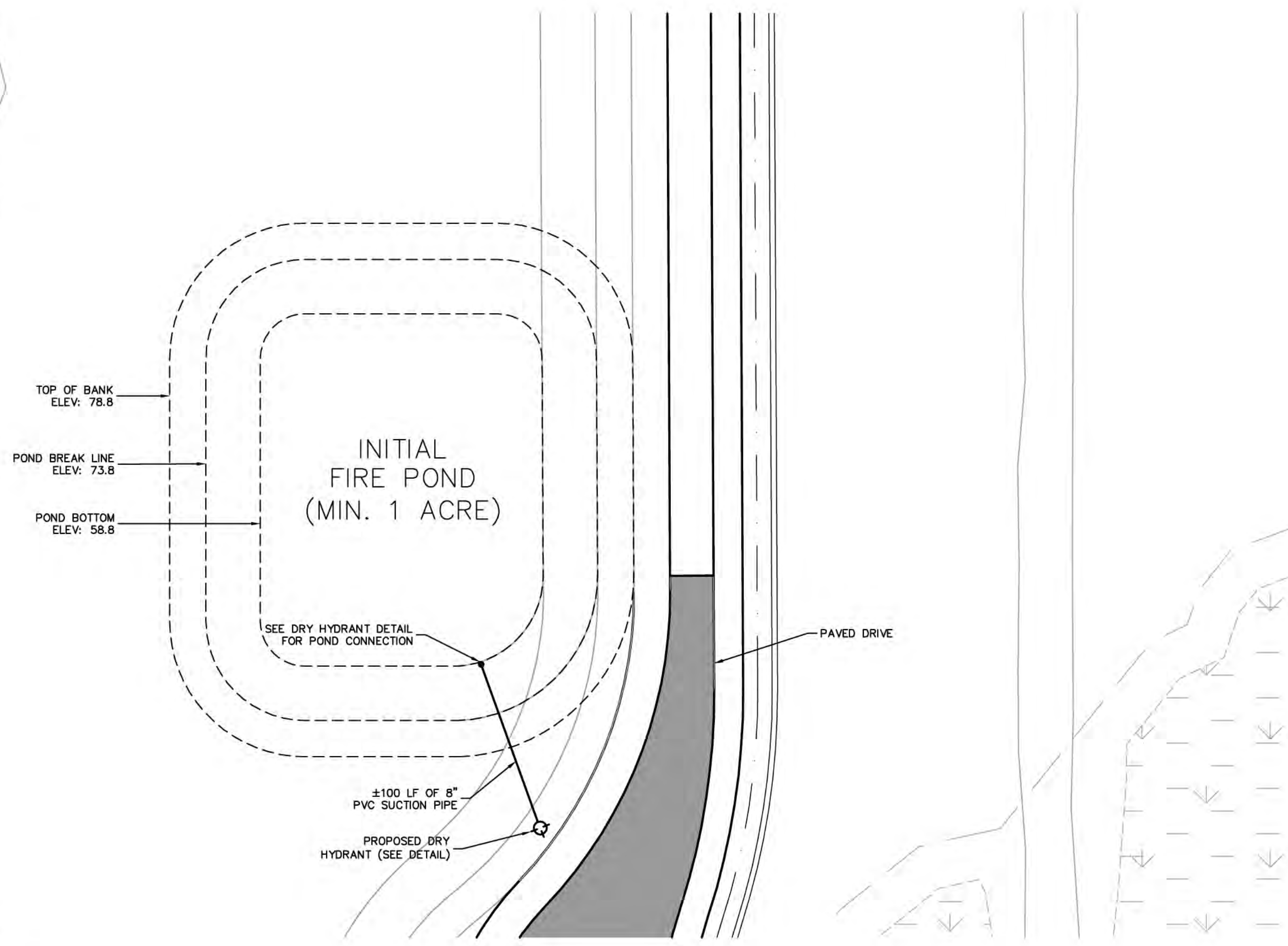
MATCHLINE SHEET C-9



DESOTO RECYCLING & DISPOSAL LANDFILL PREPARED FOR DESOTO RECYCLING & DISPOSAL, LLC DESOTO COUNTY FLORIDA	SITE GRADING PLAN	LICENSED PROFESSIONAL WILLIAM E. CONERY, P.E. FLORIDA LICENSE NUMBER 57414	KHA PROJECT 148233000 DATE APRIL 2015 SCALE AS SHOWN DESIGNED BY DRAWN BY CHECKED BY	No. _____ REVISIONS DATE _____ BY _____
SHEET NUMBER C-10				

Plotted By: Healy, Patrick - Sheet: Desoto Recycling Facility - Utilities Plan - 17, 2015 - 12:12:20pm - K:\SAR-Civil\148233000 - Desoto Recycling Facility\CAD\PlanSheets\C-11 UTILITIES PLAN.dwg
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POND #1
 NWL = 73.8
 100 YR FWL (PHASE 1) = 78.13
 100 YR FWL = 76.56



- NOTES:**
- POTABLE WATER SERVICE WILL BE PROVIDED BY EXTENDING SERVICE FROM AN EXISTING WELL
 - SANITARY SEWER SERVICE WILL BE PROVIDED WITH AN ONSITE SEPTIC SYSTEM (BY OTHERS)
 - THE INITIAL FIRE POND SIZE SHALL BE A MINIMUM OF 1 ACRE. THE FIRE POND AND ASSOCIATED DRY HYDRANT SHALL BE CONSTRUCTED AND OPERATIONAL PRIOR TO THE FACILITY OPENING. AS THE REMAINING POND IS CONSTRUCTED, THE INITIAL POND WILL BE EXPANDED, BUT AT ALL TIMES, THE MINIMUM VOLUME OF AVAILABLE FIRE FIGHTING WATER WILL BE MAINTAINED.
 - ALL FACILITY DRIVES AND ACCESS ROADS SHALL COMPLY WITH NFPA 1, SECTION 18.2, "FIRE DEPARTMENT ACCESS."

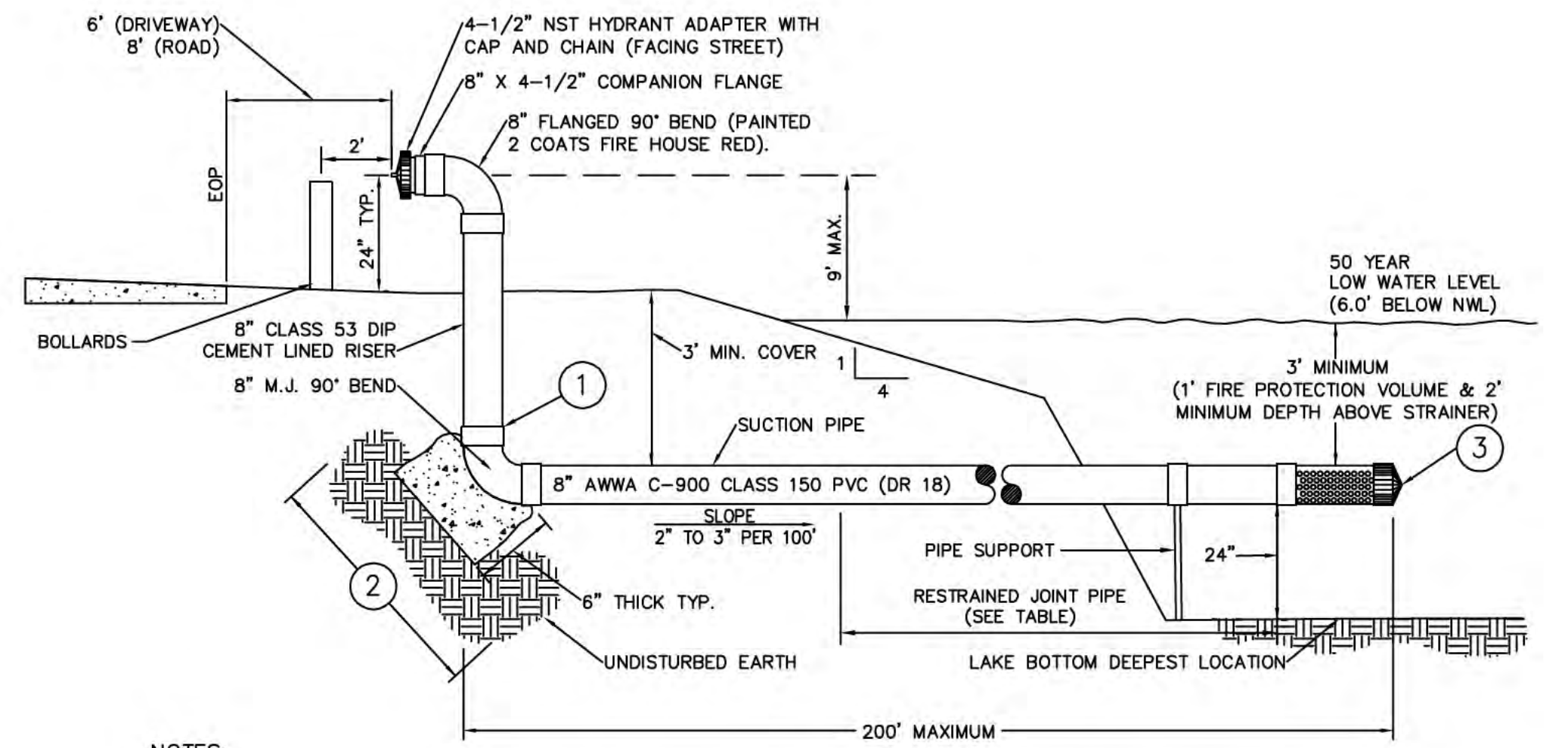
STATEMENT OF OPERATION AND STRATEGY FOR FIRE SUPPRESSION AND FIREFIGHTING

THE OPERATION PERMIT REQUIRES THE WASTE AND CONSTRUCTION DEBRIS, TRUCKED TO THE FACILITY, BE COVERED AT THE END OF EACH WORK WEEK, AT A MINIMUM.

THERE WILL BE EARTHMOVING EQUIPMENT AND SUITABLE FILL MATERIAL ONSITE AND AVAILABLE FOR FIRE SUPPRESSION AND FIREFIGHTING, AS WELL AS FOR THE DAILY OPERATION. FACILITY PERSONNEL WILL BE TRAINED IN THE METHODS AND PRACTICES OF FIRE SUPPRESSION AND FIREFIGHTING, AS REQUIRED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S SOLID WASTE CONSTRUCTION/OPERATION PERMIT.

FIREFIGHTING WATER WILL BE PROVIDED VIA A DRY HYDRANT INTO FIRE POND. THE INITIAL FIRE POND, CONSTRUCTED AND OPERATIONAL PRIOR TO THE FACILITY OPENING, WILL BE A MINIMUM OF 1 ACRE AND CONSTRUCTED TO A DEPTH OF APPROXIMATELY 15' AND DESIGNED TO DELIVER 1,000 GPM. AS THE FACILITY OPERATES, THE STORMWATER POND WILL BE EXPANDED AND EVENTUALLY ENCOMPASS THE INITIAL FIRE POND. WHEN THE STORMWATER POND IS FULLY CONSTRUCTED, THERE WILL BE APPROXIMATELY 65 ACRES OF WATER AT A DEPTH OF 15' AVAILABLE FOR FIRE WATER.

IN ADDITION TO THE EARTHMOVING EQUIPMENT, THERE WILL BE A WATER TANKER TRUCK ONSITE AND AVAILABLE FOR THE FIRE SUPPRESSION AND FIREFIGHTING. THE TANKER TRUCK WILL BE AN ALL-TERRAIN ARTICULATED TRUCK WITH A 5,000 GALLON TANK AND A 1000 GPM PUMP AND WATER CANNON.



- NOTES:**
- TOP OF 90° BEND SHALL BE AT OR BELOW THE LOW WATER LEVEL OF THE LAKE.
 - THRUST BLOCK: SQUARE FOOT OF BEARING SURFACE ON UNDISTURBED EARTH. MINIMUM REQUIREMENTS ARE AS FOLLOWS:

PIPE DIAMETER (INCHES)	BEARING SURFACE (SQ. FT.)
6	10.0
8	17.8
10	27.8

- STRAINER CAP: 8" (152 mm) PVC DRY HYDRANT STRAINER SHOULD BE PLACED IN DEEPEST PORTION OF LAKE. INCLUDE RESTRAINED JOINT TRANSITION FITTING TO CONNECT TO SUCTION PIPE. STRAINER LENGTH SHALL BE ADEQUATE TO PROVIDE APPROXIMATE 200 SQ. IN. OF TOTAL STRAINER HOLE AREA (4x PIPE DIAMETER). STRAINER HOLES ARE TO BE DRILLED INTO THE BOTTOM SIDE OF THE PIPE LEAVING A 4" STRIPE ON TOP.

GENERAL NOTES:

CONSTRUCTION SHALL BE IN ACCORDANCE WITH N.F.P.A. STANDARD NO. 1142 AND LOCAL BUILDING AND FIRE CODES AS APPLY.

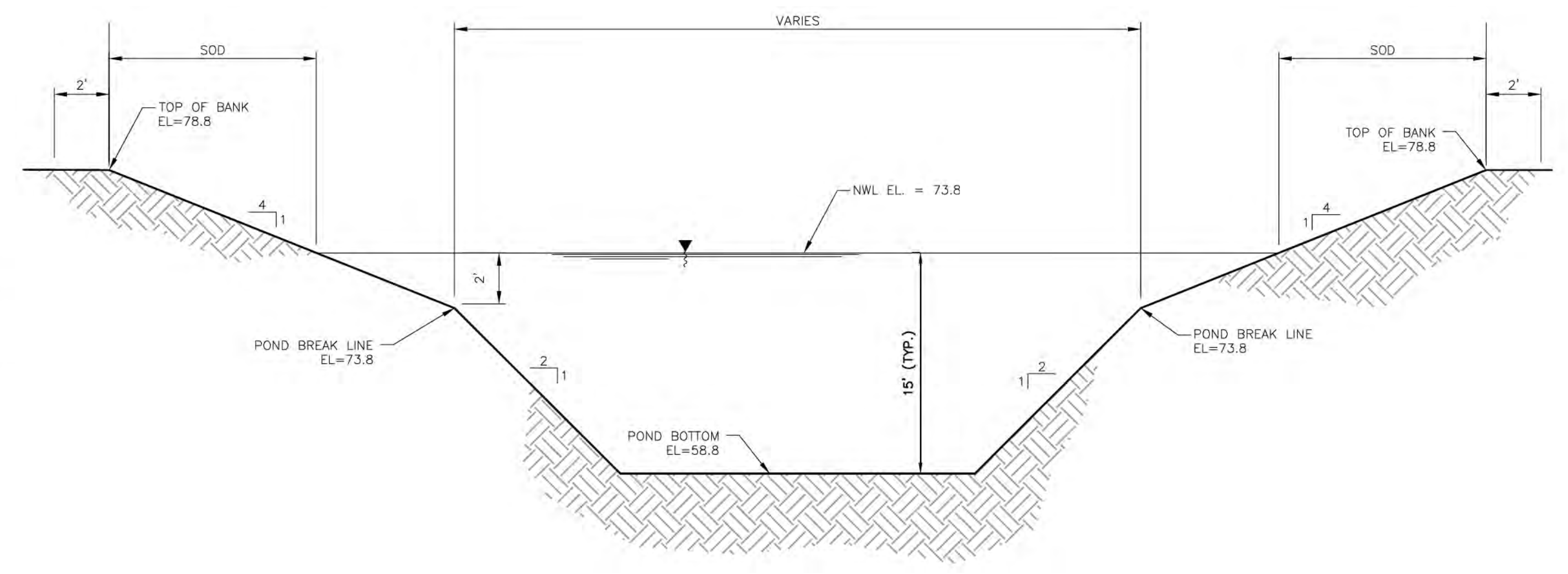
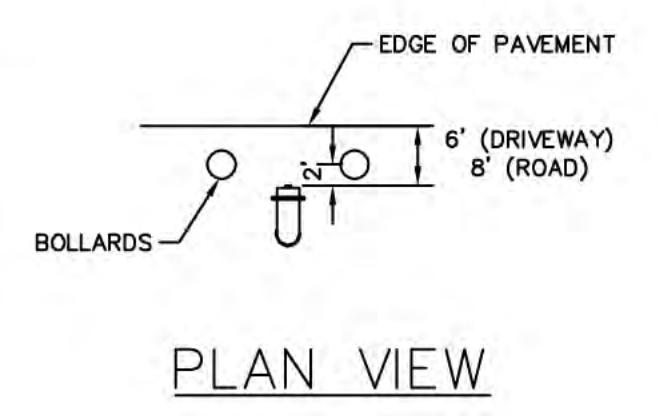
FITTINGS BELOW GRADE SHALL BE RESTRAINED JOINT, EXPOSED FITTINGS SHALL BE FLANGED.

FLOW RATE GPM	SUCTION PIPE DIAMETER (IN.)	MINIMUM RESTRAINED JOINT LENGTH FROM SCREEN (FEET)
500 OR LESS	6"	60
501-1000	8"	80
10001-1500	10"	100

SECTION

DRY HYDRANT DETAIL

N.T.S.

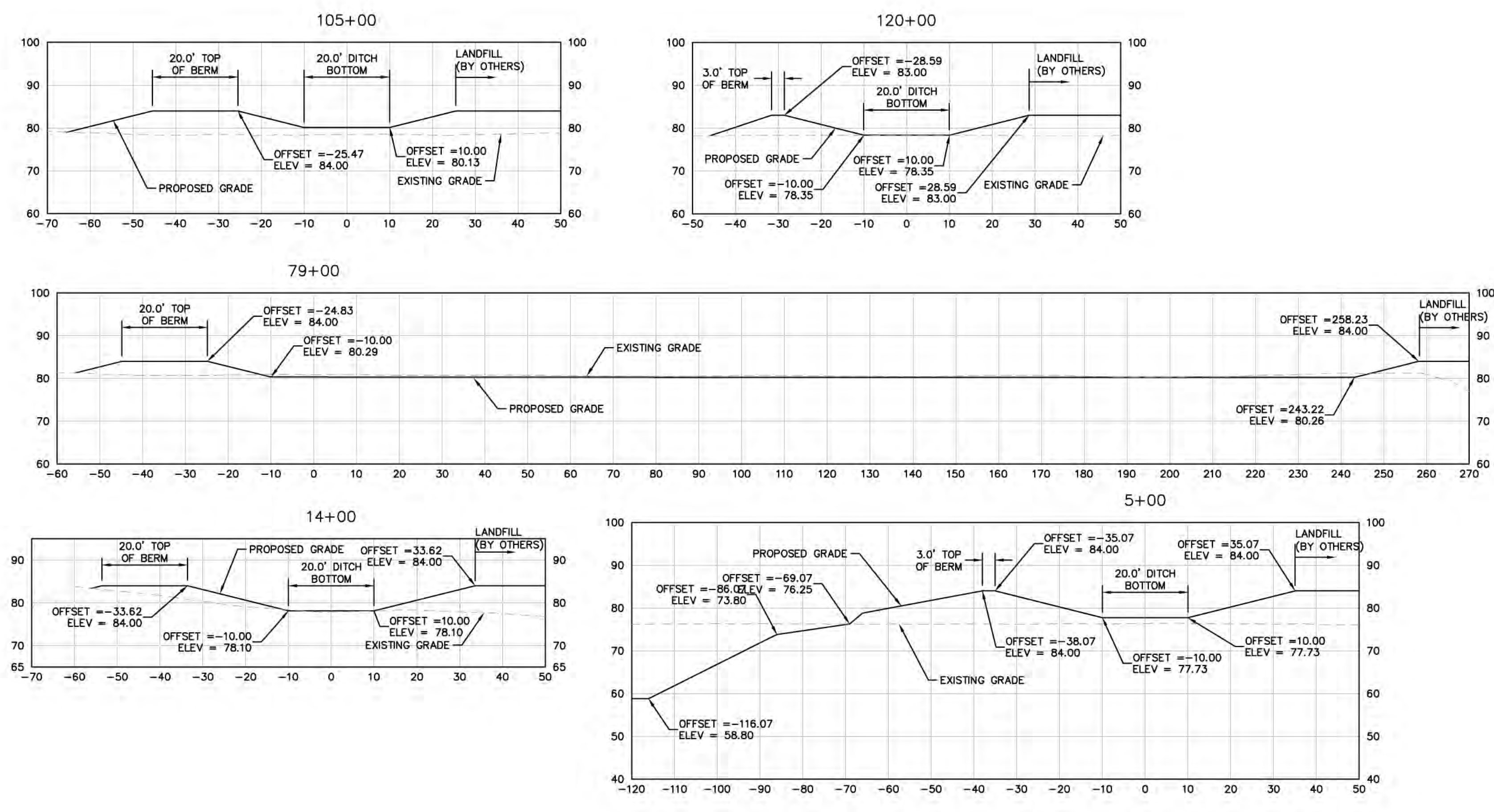


INITIAL FIRE POND SECTION

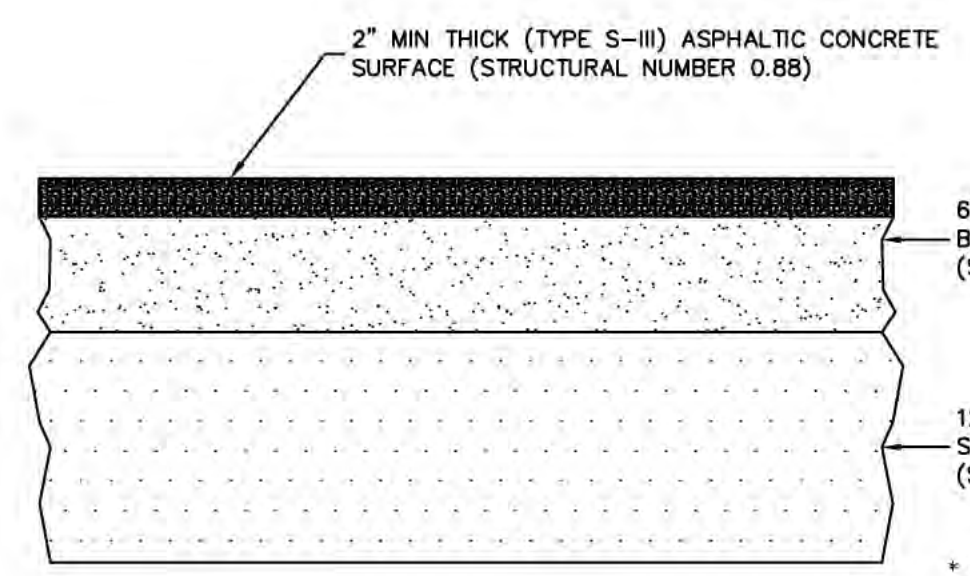
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<h1 style="margin: 0;">Kimley»Horn</h1> <p style="font-size: small; margin: 0;"> © 2015 KIMLEY-HORN AND ASSOCIATES, INC. 1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236 PHONE: 941-379-7600 WWW.KIMLEY-HORN.COM CA 00000896 </p>	<p style="font-size: small; margin: 0;"> LICENSED PROFESSIONAL WILLIAM E. CONERLY, P.E. FLORIDA LICENSE NUMBER 57414 DATE: _____ </p>
<p style="font-size: small; margin: 0;"> KHA PROJECT 148233000 DATE APRIL 2015 SCALE AS SHOWN DESIGNED BY DRAWN BY CHECKED BY </p>	<p style="font-size: small; margin: 0;"> REVISIONS No. _____ BY _____ DATE _____ </p>
<h2 style="margin: 0;">UTILITIES PLAN</h2>	
<p style="font-size: small; margin: 0;"> DESOTO RECYCLING & DISPOSAL LANDFILL PREPARED FOR DESOTO RECYCLING & DISPOSAL, LLC FLORIDA DESOTO COUNTY </p>	
<p style="font-size: small; margin: 0;"> SHEET NUMBER C-11 </p>	

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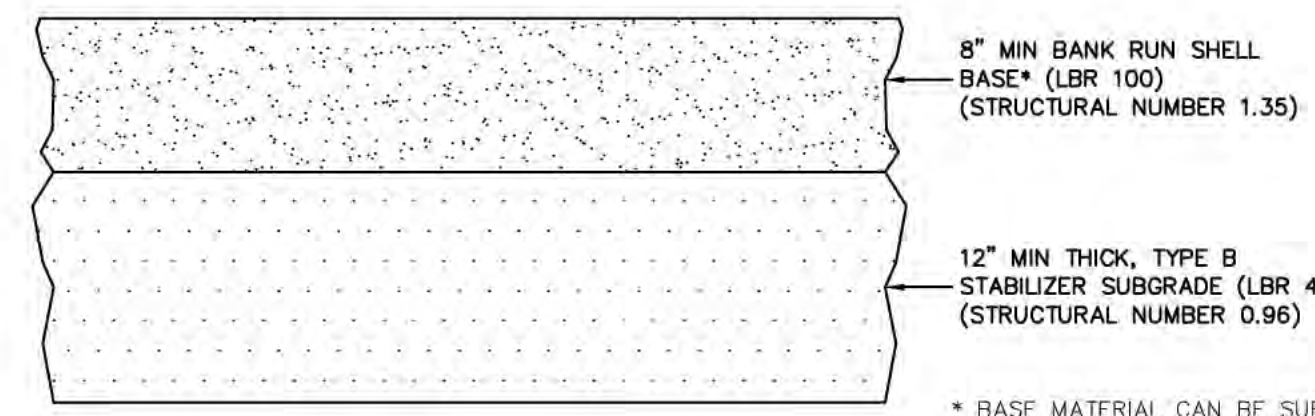


PERIMETER DITCH SECTIONS



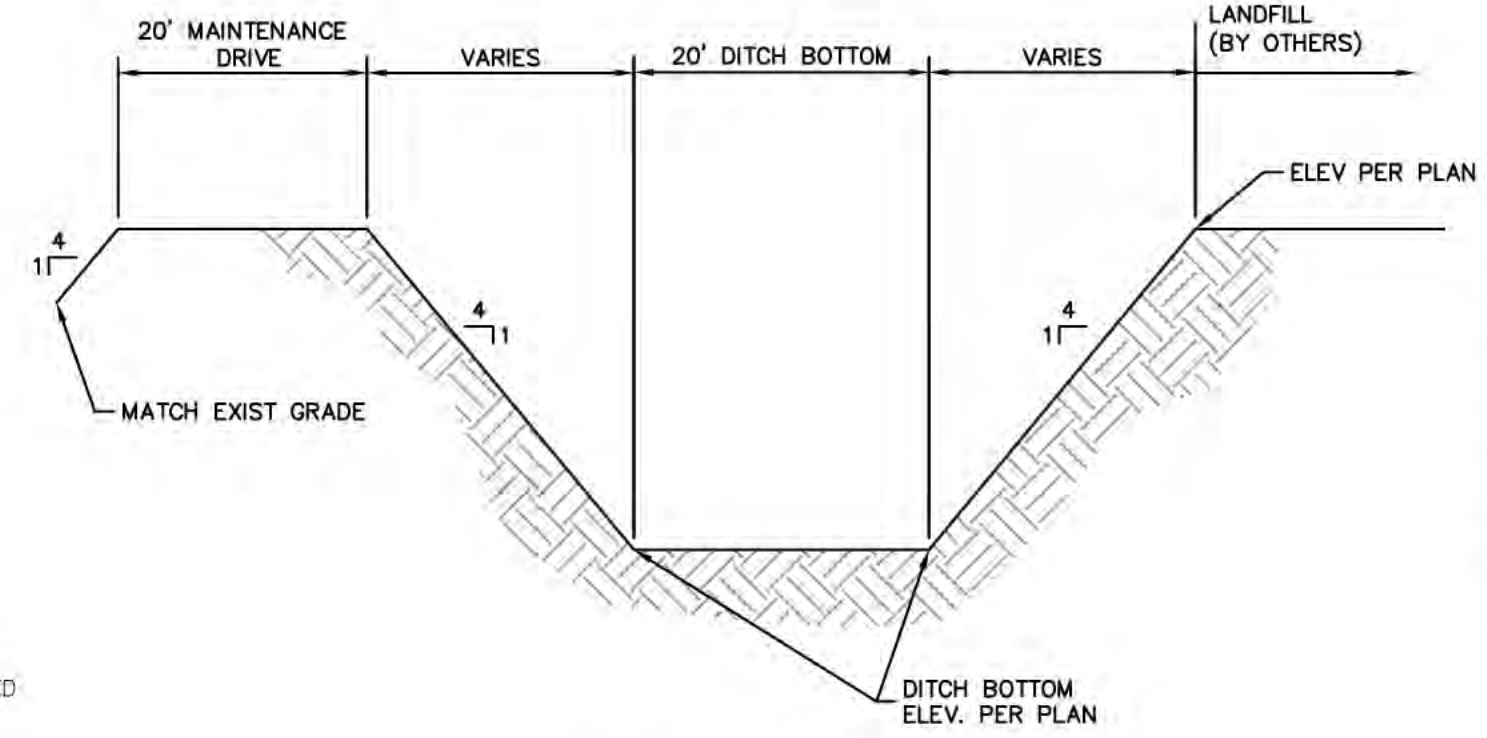
NOTES:
 TOTAL ROADWAY SECTION STRUCTURAL NUMBER = 2.89
 SUBSTITUTIONS TO BE APPROVED BY ENGINEER

* BASE MATERIAL CAN BE SUBSTITUTED AS APPROVED BY THE ENGINEER PROVIDED THE MINIMUM STRUCTURAL NUMBER HAS BEEN MET



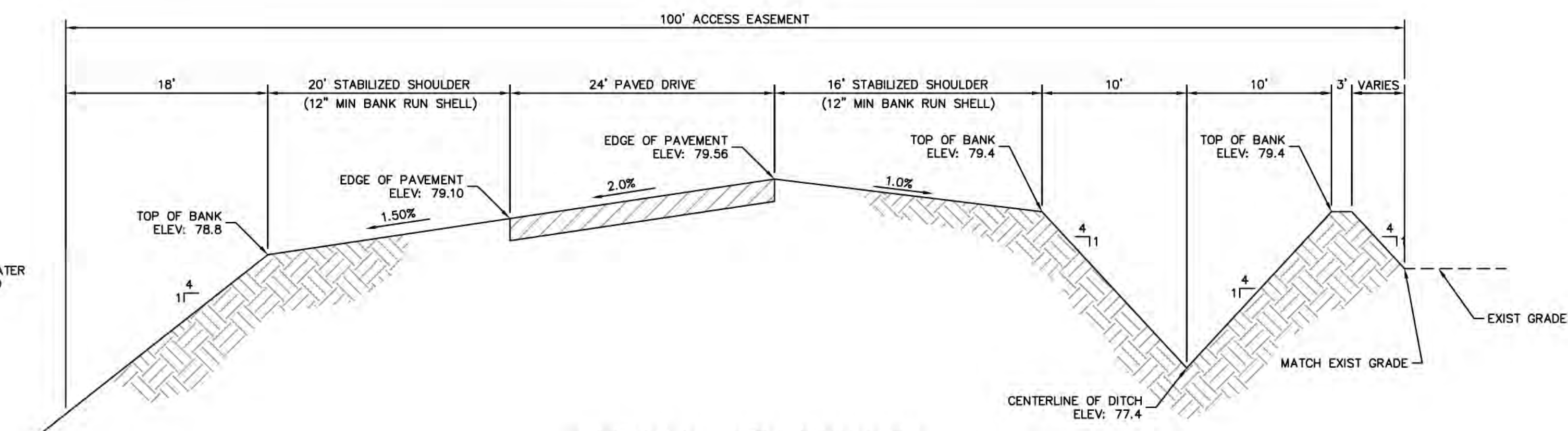
NOTES:
 TOTAL ROADWAY SECTION STRUCTURAL NUMBER = 2.31
 SUBSTITUTIONS TO BE APPROVED BY ENGINEER

* BASE MATERIAL CAN BE SUBSTITUTED AS APPROVED BY THE ENGINEER PROVIDED THE MINIMUM STRUCTURAL NUMBER HAS BEEN MET



TYPICAL PERIMETER DITCH SECTION

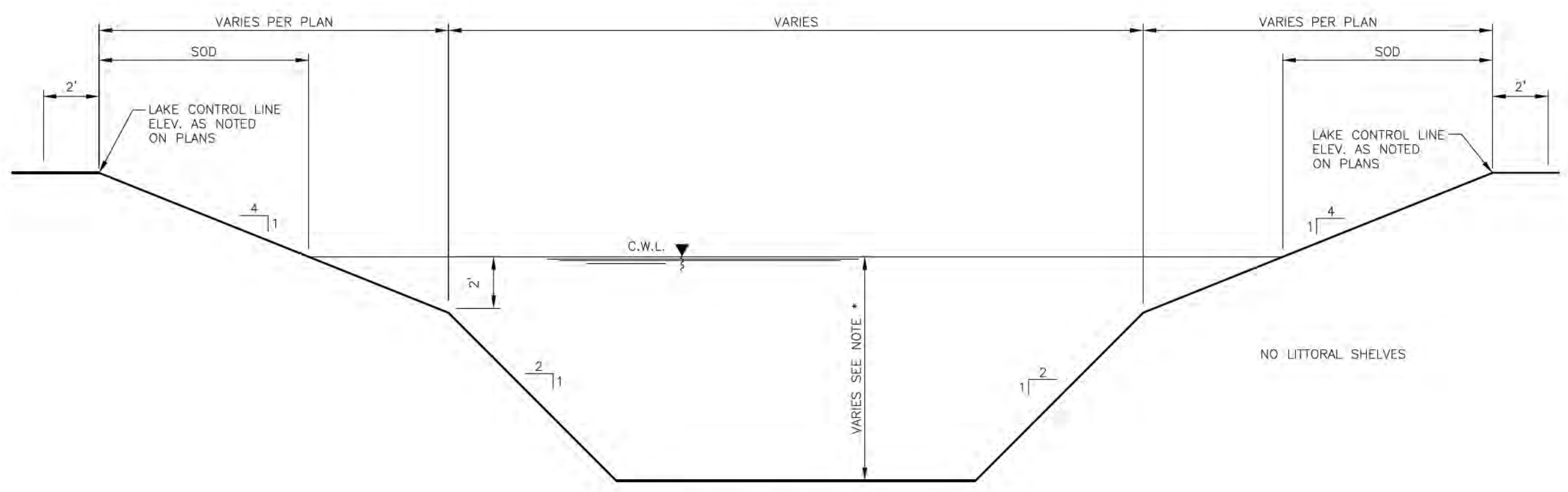
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TYPICAL ENTRANCE ROAD SECTION

N.T.S.

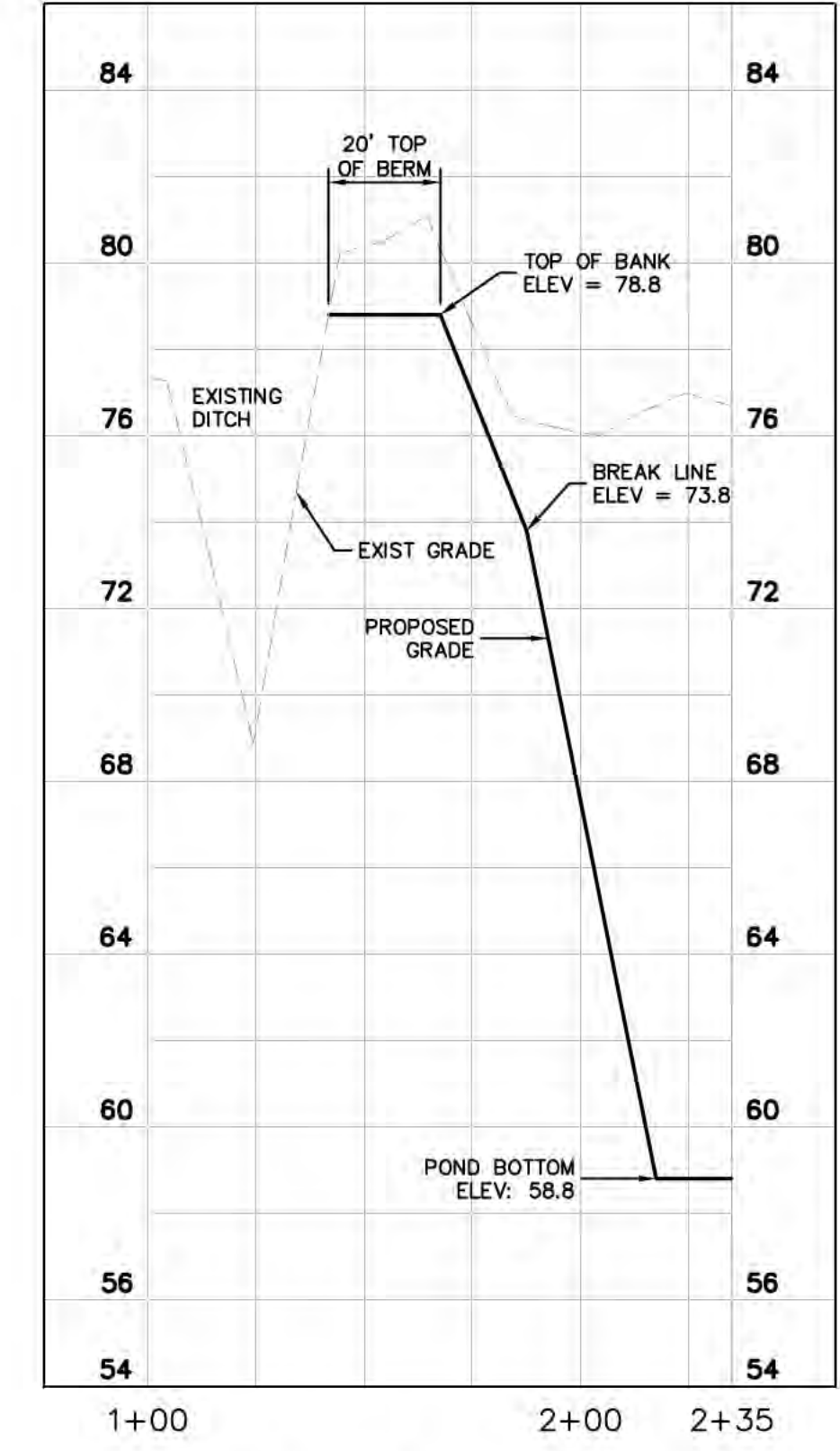
NOTE: ALL FACILITY DRIVES AND ACCESS ROADS SHALL COMPLY WITH NFPA 1, SECTION 18.2, FIRE DEPARTMENT ACCESS.



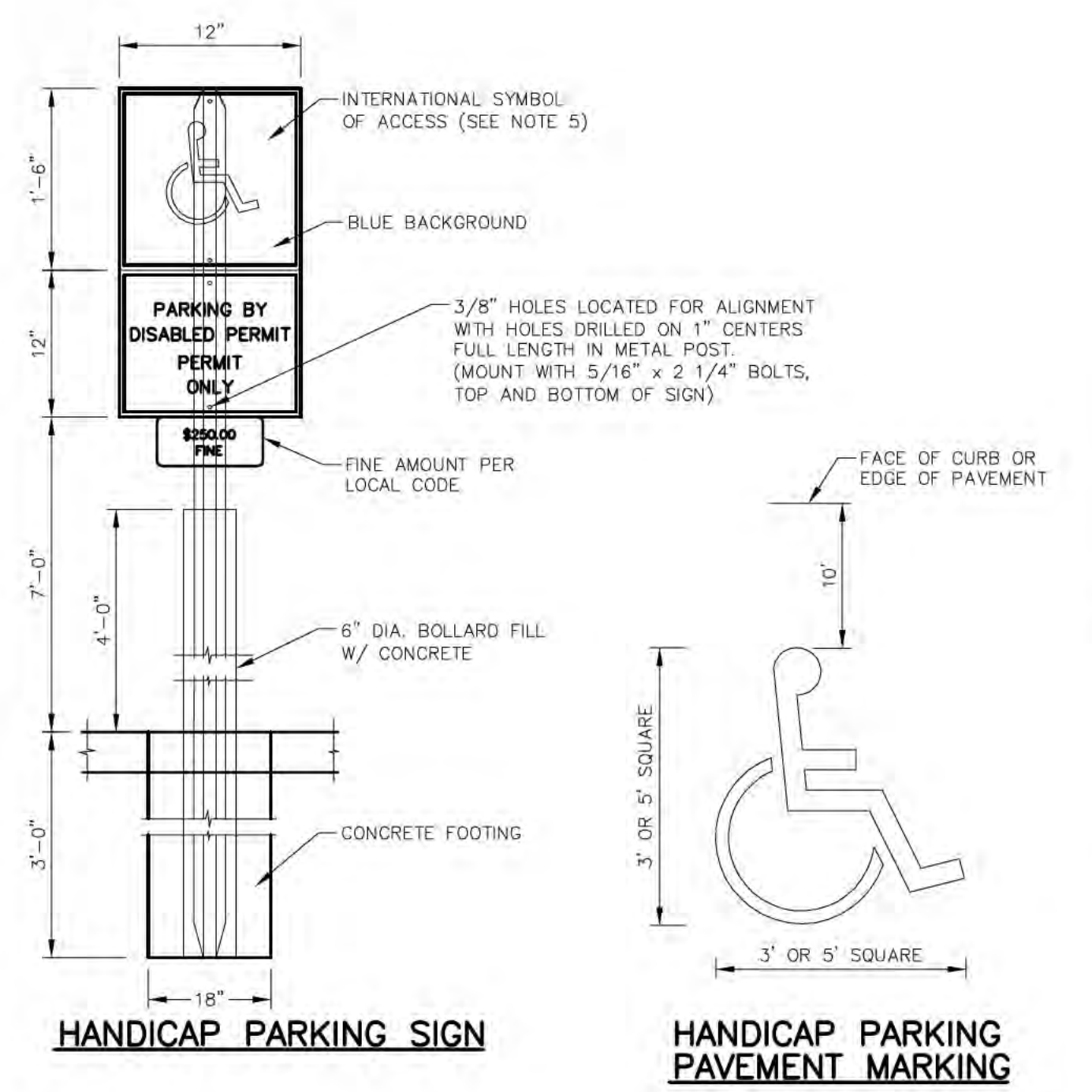
TYPICAL LAKE SECTION

N.T.S.

* MIN. DEPTH 6' TO BE CONFIRMED BY GEOTECHNICAL ENGINEER
 MAX. DEPTH TO BE DETERMINED BY GEOTECHNICAL ENGINEER.

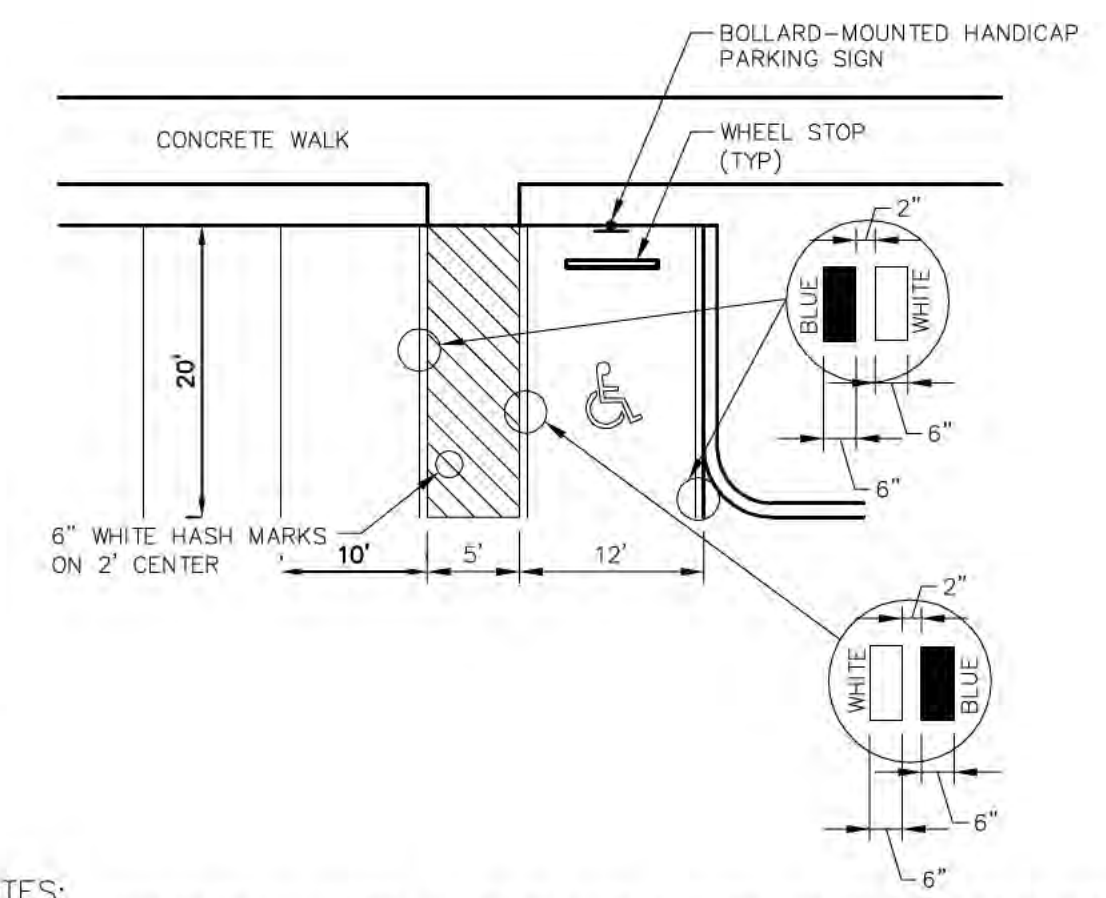


POND & EXISTING DITCH PROFILE



HANDICAP PARKING SIGN

HANDICAP PARKING PAVEMENT MARKING



NOTES:

- METAL POST TO BE GALVANIZED. ALL BOLTS, NUTS, WASHERS AND SCREWS MUST BE RUSTPROOF.
- CONCRETE FOR FOOTING SHALL BE PORTLAND CEMENT AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 p.s.i.
- SIGNS WILL BE FABRICATED BY USING REFLECTING COATING IN THE SYMBOL, MESSAGE AND BORDER APPLIED TO A SHEET ALUMINUM BACKING (.080) IN THICKNESS.
- MESSAGE LETTERING SHALL BE UPPER CASE (WHITE)(SERIES B) 2" HIGH IN ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- THE SYMBOL IS COMPOSED OF TWO ELEMENTS, A WHITE WHEELCHAIR FIGURE (WHICH SHOULD ALWAYS FACE RIGHT) ON A SQUARE BACKGROUND, INTERNATIONAL BLUE IN COLOR (FED. STD. 595a, COLOR #15180).
- SIGN POST SHALL BE MIN. 2'-0" CLEAR FROM BACK OF CURB.
- PARKING SPACES AND ACCESS AISLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:50 (2%) IN ALL DIRECTIONS.

HANDICAPPED PARKING/MARKING DETAIL

N.T.S.

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SECTIONS		
DESOTO RECYCLING & DISPOSAL LANDFILL PREPARED FOR DESOTO RECYCLING & DISPOSAL, LLC DESOTO COUNTY FLORIDA		
SHEET NUMBER		DATE: _____
C-12		BY _____

Plotted By: Heavy, Patrick. Sheet: SdsoRecyclingFacility. Layout: C-13 FDOT DETAILS (1 OF 2). September 17, 2015 12:15:15pm. K:\SARL\01\148233000 - Desoto Recycling Facility\CAD\FloorPlans\C-13 FDOT DETAILS.dwg
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TYPE C
Recommended Maximum Pipe Size:
2'-0" Wall - 18" Pipe
3'-1" Wall - 24" Pipe (18" where an 18" pipe enters a 2'-0" wall)

TYPE D
Recommended Maximum Pipe Size:
3'-0" Wall - 24" Pipe
4'-1" Wall - 30" Pipe

TYPE E
Recommended Maximum Pipe Size:
3'-0" Wall - 24" Pipe
4'-0" Wall - 30" Pipe

WALL DEPTH	SCHEDULE	AREA (IN ² /FT.)	MAX. SPACING BARS WWF	WWF
0'-0"	A12	0.20	12"	8"

WALL DEPTH	SCHEDULE	AREA (IN ² /FT.)	MAX. SPACING BARS WWF	WWF
0'-0"	A12	0.20	12"	8"
0'-7-0"	A6	0.20	6"	5"
10'-13"	A4	0.20	4"	3"
10'-19"	B5.5	0.24	5 1/2"	5"

WALL DEPTH	SCHEDULE	AREA (IN ² /FT.)	MAX. SPACING BARS WWF	WWF
0'-0"	A12	0.20	12"	8"
0'-7-0"	A6	0.20	6"	5"
7-5'-10"	B5.5	0.24	5 1/2"	5"
10'-19"	C6.5	0.37	6 1/2"	6"

WALL DEPTH	SCHEDULE	AREA (IN ² /FT.)	MAX. SPACING BARS WWF	WWF
0'-0"	B5.5	0.24	5 1/2"	5"
0'-7-0"	C6.5	0.37	6 1/2"	6"
7'-15"	D4.5	0.53	4 1/2"	4"

WALL DEPTH	SCHEDULE	AREA (IN ² /FT.)	MAX. SPACING BARS WWF	WWF
0'-0"	C3.5	0.37	3 1/2"	3"
0'-10"	D4.5	0.53	4 1/2"	4"

GENERAL NOTES
See Sheet 3 of 7.

LAST REVISION	DESCRIPTION:	2015 DESIGN STANDARDS	DITCH BOTTOM INLET TYPES C, D, E AND H	INDEX NO. 232	SHEET NO. 1 of 7
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CAST IRON GRATES

TYPE C
Approx. Weight 235 Lbs.

TYPE E
Approx. Weight 465 Lbs.

TYPE H (3-GRATE INLET)
Approx. Weight 725 Lbs.

TYPE H (4-GRATE INLET)
Approx. Weight 967 Lbs.

STEEL GRATES

TYPE C
Straight Bars 2" x 1/2"
Reinforcing Bars 1 1/2" x 3/4"
Bands 2" x 1/2"
Approx. Weight 104 Lbs.

TYPE D
Straight Bars 2" x 1/2"
Reinforcing Bars 1 1/2" x 3/4"
Bands 2" x 1/2"
Approx. Weight 190 Lbs.

TYPE E
Straight Bars 2" x 1/2"
Reinforcing Bars 1 1/2" x 3/4"
Bands 2" x 1/2"
Approx. Weight 215 Lbs.

TYPE H (2-GRATE INLET)
Straight End-Bearing Bars 2" x 1/2"
Straight Bearing Bars 2" x 1/2"
Reinforcing Bars 1 1/2" x 3/4"
Approx. Total Weight 310 Lbs.

TYPE H (4-GRATE INLET)
Straight End-Bearing Bars 2" x 1/2"
Reinforcing Bars 1 1/2" x 3/4"
Banding Bars 2" x 1/2"
Approx. Total Weight 388 Lbs.

GENERAL NOTES

- These inlets are suitable for bicycle traffic and are to be used in ditches, medians and other areas subject to infrequent traffic loadings but are not to be placed in areas subject to any heavy wheel loads. These inlets may be placed in areas subject to occasional pedestrian traffic such as landscaped areas and pavement areas where pedestrians can walk around the inlet.
- Inlets subject to minimal debris should be constructed without slots. Where debris is a problem inlets should be constructed with slots. Slotted inlets located within roadway clear zones and areas subject to pedestrians shall have traversable slots. The traversable slot modification is not adaptable to inlet Type H. Slots may be constructed at either or both ends as shown on plans. Traversable slots shall not be used in areas subject to occasional bicycle traffic.
- Steel grates are to be used on all inlets where bicycle traffic is anticipated. Steel grates are to be used on all inlets with traversable slots. Either cast iron or steel grates may be used on inlets without slots where bicycle traffic is not anticipated. Either cast iron or steel grates may be used on all inlets with non-traversable slots. Subject to the selection described above, when Alternate G grate is specified in the plans, either the steel grate, hot dip galvanized after fabrication, or the cast iron grate may be used, unless the plans stipulate the particular type.
- Recommended maximum pipe sizes shown are for concrete pipe. Size for other types of pipe must be checked for fit.
- All exposed edges and corners shall be 1/4" chamfer or tool to 1/4" radius.
- Concrete inlet pavement to be used on inlets without slots and inlets with non-traversable slots only when called for in the plans; but required on all traversable slots inlets. Cost to be included in contract unit price for inlets. Quantities shown are for information only.
- Traversable slots constructed in existing inlets shall be paid for as inlets partial. For conversion work and method of payment see "TRAVERSABLE SLOT INLETS (PARTIAL) FOR EXISTING INLETS".
- Sodding to be used on all inlets not located in paved areas and paid for under contract unit price for Performance Turf, SY.
- For supplementary details see Index No. 201.
- All reinforcing is Grade 60 bars with 2" min. cover unless otherwise noted. Bars to be cut or bent for 1 1/2" clearance around pipe opening. Provide one additional #4 bar above and at each side of pipe opening.

PAVEMENT AND SODDING QUANTITIES FOR TRAVERSABLE SLOTS

Inlet	Pavement		Sod	
	Single Slot	Double Slot	Single Slot	Double Slot
SY	1	2	1	2
C	4.87	0.77	6.16	0.93
D	5.99	0.91	7.70	1.10
E	5.88	0.81	7.37	1.08

GENERAL NOTES
See Sheet 3 of 7.

LAST REVISION	DESCRIPTION:	2015 DESIGN STANDARDS	DITCH BOTTOM INLET TYPES C, D, E AND H	INDEX NO. 232	SHEET NO. 3 of 7
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GENERAL NOTES
See Sheet 3 of 7.

LAST REVISION	DESCRIPTION:	2015 DESIGN STANDARDS	DITCH BOTTOM INLET TYPES C, D, E AND H	INDEX NO. 232	SHEET NO. 2 of 7
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TRAVERSABLE SLOTS

SECTION AA

SECTION BB

SECTION CC

PAVEMENT AND SODDING QUANTITIES FOR TRAVERSABLE SLOTS

Inlet	Pavement		Sod	
	Single Slot	Double Slot	Single Slot	Double Slot
SY	1	2	1	2
C	4.87	0.77	6.16	0.93
D	5.99	0.91	7.70	1.10
E	5.88	0.81	7.37	1.08

GENERAL NOTES
See Sheet 3 of 7.

LAST REVISION	DESCRIPTION:	2015 DESIGN STANDARDS	DITCH BOTTOM INLET TYPES C, D, E AND H	INDEX NO. 232	SHEET NO. 4 of 7
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WILLIAM E. CONERY, P.E.
FLORIDA LICENSE NUMBER 57414

KHA PROJECT 148233000
DATE APRIL 2015
SCALE AS SHOWN
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DRAWN BY
CHECKED BY

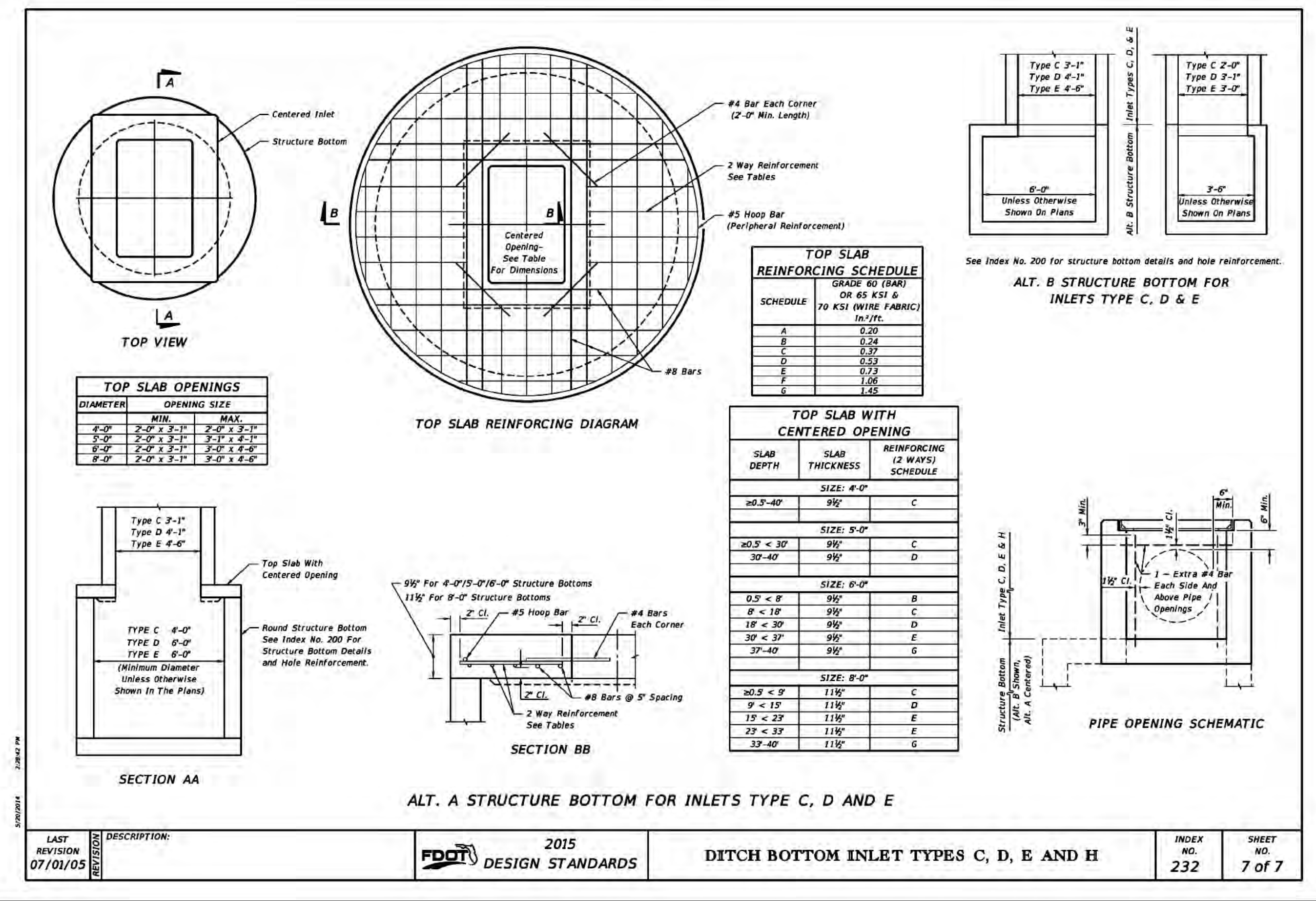
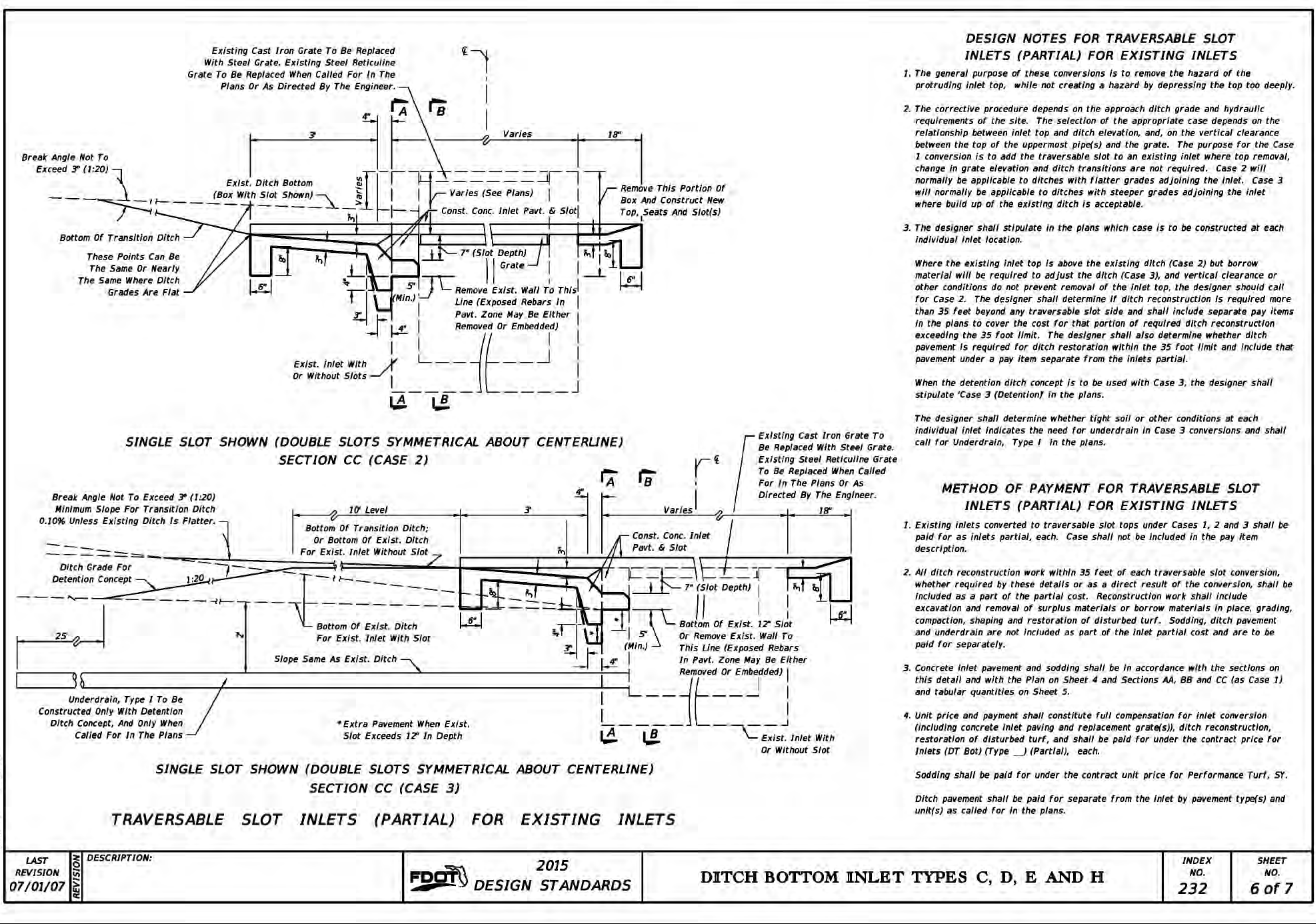
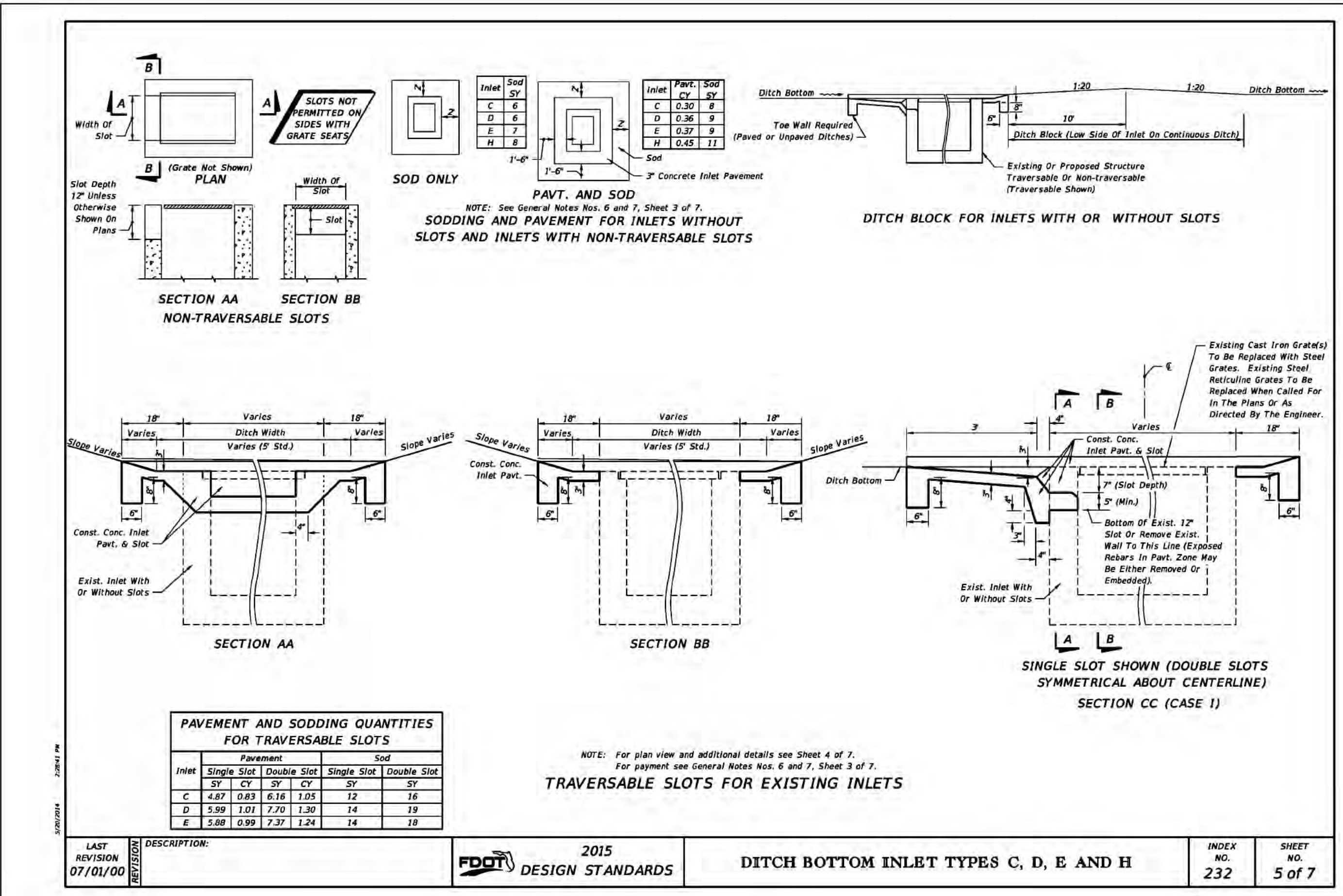
FDOT DETAILS
(1 OF 2)

DESOTO RECYCLING & DISPOSAL LANDFILL
PREPARED FOR
DESOTO RECYCLING & DISPOSAL, LLC
DESOTO COUNTY FLORIDA

SHEET NUMBER
C-13

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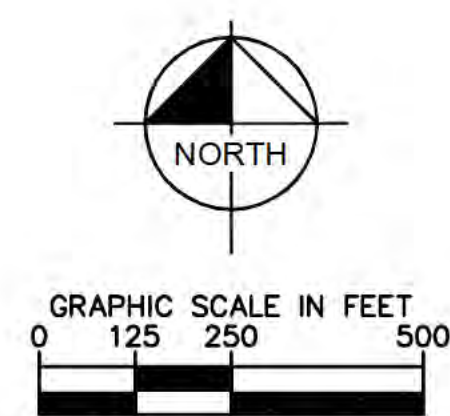
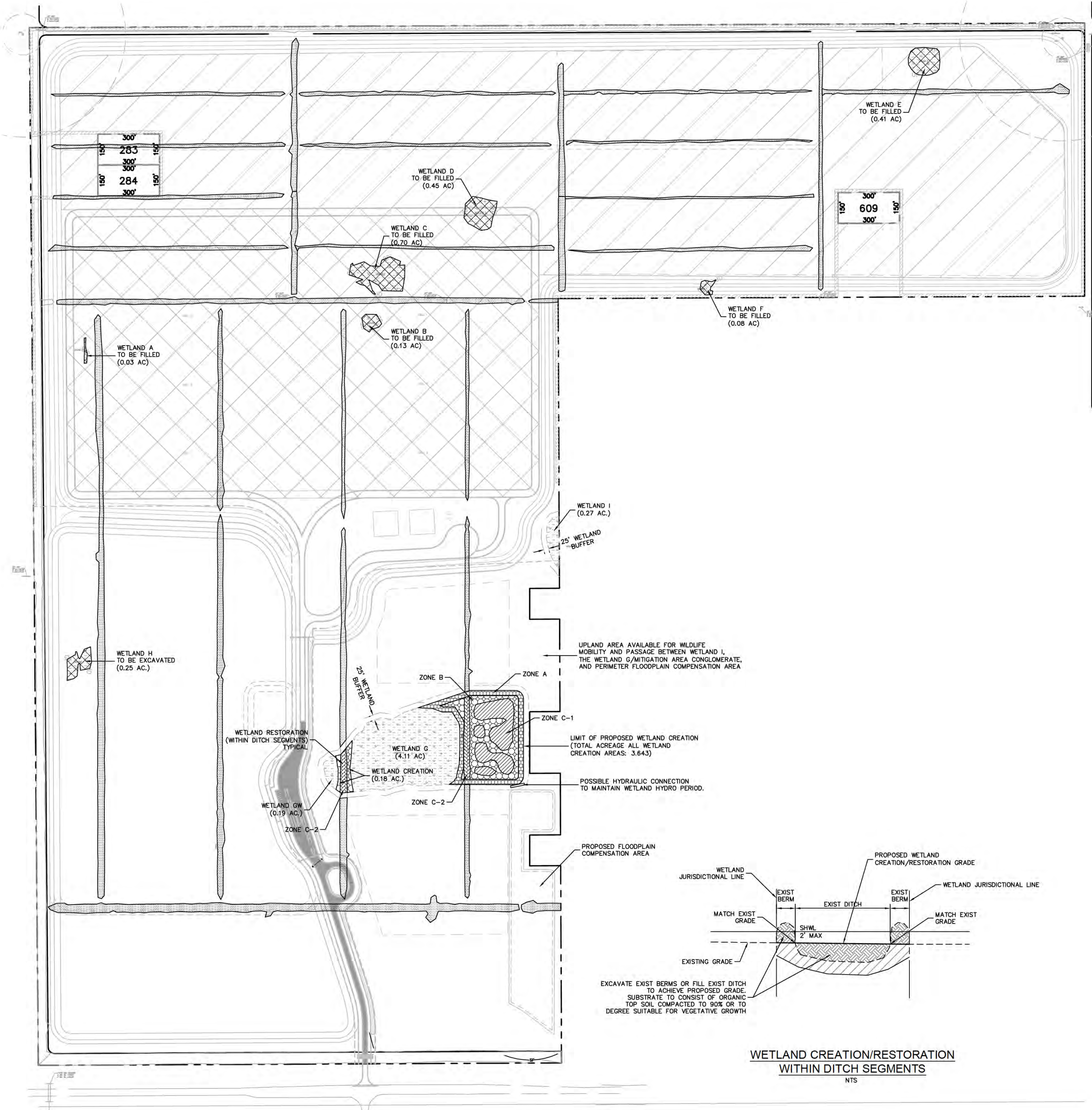
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FDOT DETAILS
(2 OF 2)

DESOTO RECYCLING & DISPOSAL LANDFILL
 PREPARED FOR
DESOTO RECYCLING & DISPOSAL, LLC
 DESOTO COUNTY FLORIDA

SHEET NUMBER
C-14

Plotted By: heavy, Patrick Sheet: Set: Desoto Recycling Facility - 17 WETLAND MITIGATION SCHEMATIC - September 17, 2015 12:20:30pm K:\SAR_GWA\148233000 - Desoto Recycling Facility\CAD\PlanSheets\C-17 WETLAND MITIGATION SCHEMATIC.dwg
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- EXISTING WETLAND TO BE FILLED
- EXISTING DITCH TO BE FILLED

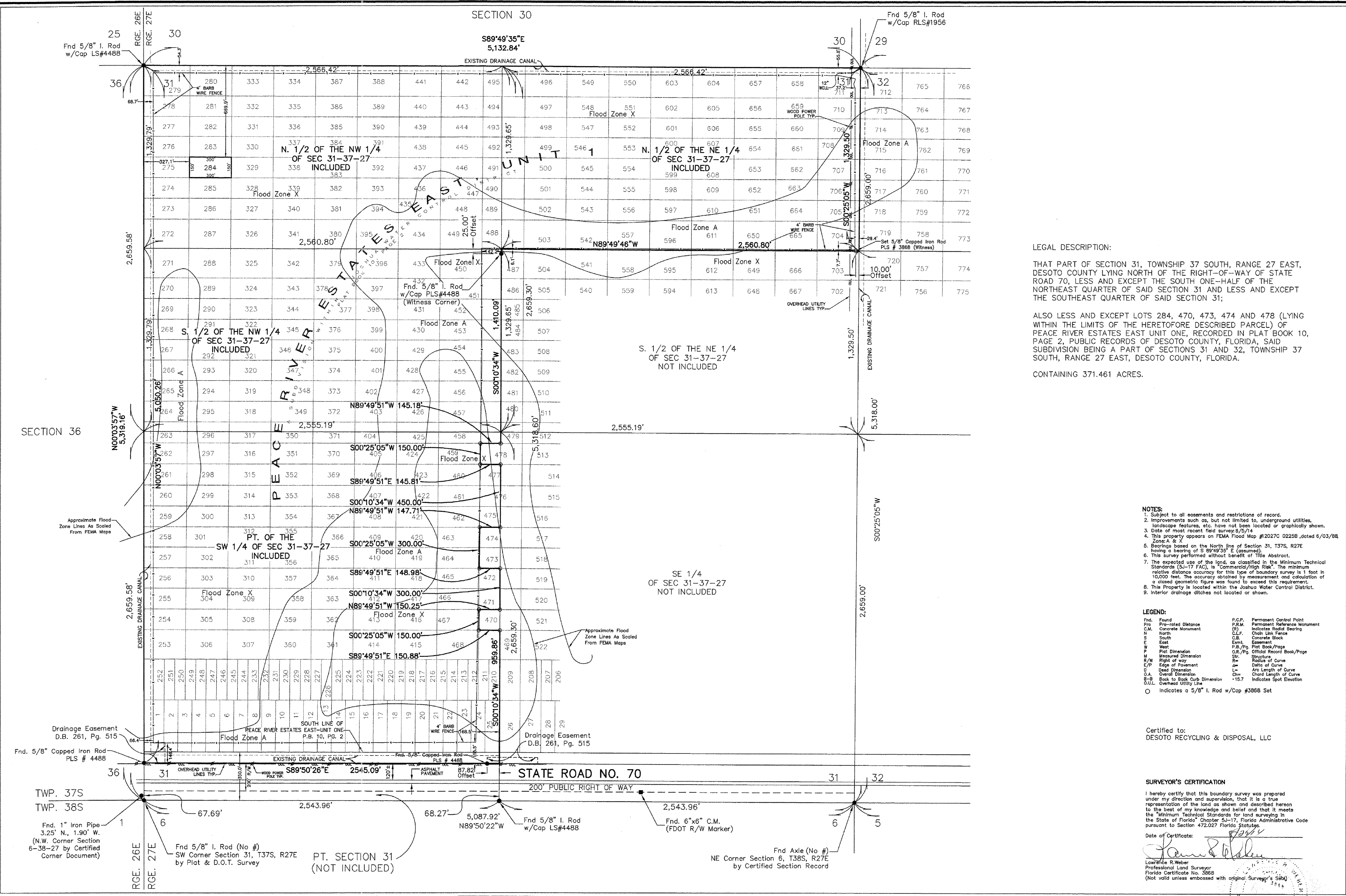
WETLAND CREATION PLANTING ZONES			
SYMBOL	ZONE	DEPTH RANGE (FROM SHWL)	DESCRIPTION
	A	1'	PERIMETER ZONE SHALLOW/TRANSITIONAL HERBACEOUS SPECIES
	B	1'-2'	MID-ZONE HERBACEOUS SPECIES
	C	2'	FREE-FORM WITHIN ZONE B MATRIX DEEP-ZONE HERBACEOUS SPECIES

- GENERAL WETLAND MITIGATION NOTES:**
1. WETLAND CREATION AREAS TO CONTRIBUTE TO REQUIRED FLOODPLAIN COMPENSATION.
 2. WETLAND G AND GW TO BE USED FOR ELEVATION REFERENCES.
 3. PLANTING ZONE ACREAGE, PROPOSED PLANT LIST, AND OTHER WETLAND MITIGATION DETAILS TO BE PROVIDED WITH THE FORMAL WETLAND MITIGATION PLAN.
 4. WETLAND G AND GW ENHANCEMENT TO BE ACHIEVED VIA EXOTIC SPECIES REMOVAL.
 5. PORTIONS OF 25' BUFFER BORDERING WETLAND CREATION TO BE INITIALLY PLANTED WITH NATIVE UPLAND SPECIES.
 6. 4:1 MAXIMUM SLOPE TRANSITION BETWEEN WETLAND CREATION ZONES A, B AND C.
 7. ZONE C-1 & C-2 HAVE A TARGET DEPTH OF SHWL-2'. HOWEVER, WHERE NECESSARY, THE BOTTOM GRADE OF ZONE C-2 WILL VARY (BELOW SHWL) TO ALLOW A 4:1 TRANSITION WITH ADJACENT WETLAND.
 8. THE CONFIGURATIONS OF ZONE C-1 POLYGONS TO BE FREE-FORM CONSTRUCTED IN FIELD (AND THEREFORE MAY VARY FROM THAT SHOWN). HOWEVER, THE COMBINED TOTAL AREA OF ZONE C-1 WILL APPROXIMATE THAT INDICATED IN THE WETLAND CREATION PLANTING ZONE TABLE.

WETLAND CREATION/RESTORATION
 WITHIN DITCH SEGMENTS
 NTS

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No.	BY	DATE					
<p>LICENSED PROFESSIONAL</p> <p>WILLIAM E. CONERLY, P.E. FLORIDA LICENSE NUMBER 57414 DATE: _____</p>	<p>KHA PROJECT 148233000</p> <p>DATE APRIL 2015</p> <p>SCALE AS SHOWN</p> <p>DESIGNED BY _____</p> <p>DRAWN BY _____</p> <p>CHECKED BY _____</p>						
<p>WETLAND MITIGATION SCHEMATIC</p>							
<p>DESOTO RECYCLING & DISPOSAL LANDFILL PREPARED FOR DESOTO RECYCLING & DISPOSAL, LLC DESOTO COUNTY FLORIDA</p>							
<p>SHEET NUMBER C-17</p>							

SECTION 30



LEGAL DESCRIPTION:

THAT PART OF SECTION 31, TOWNSHIP 37 SOUTH, RANGE 27 EAST, DESOTO COUNTY LYING NORTH OF THE RIGHT-OF-WAY OF STATE ROAD 70, LESS AND EXCEPT THE SOUTH ONE-HALF OF THE NORTHEAST QUARTER OF SAID SECTION 31 AND LESS AND EXCEPT THE SOUTHEAST QUARTER OF SAID SECTION 31;
 ALSO LESS AND EXCEPT LOTS 284, 470, 473, 474 AND 478 (LYING WITHIN THE LIMITS OF THE HERETOFORE DESCRIBED PARCEL) OF PEACE RIVER ESTATES EAST UNIT ONE, RECORDED IN PLAT BOOK 10, PAGE 2, PUBLIC RECORDS OF DESOTO COUNTY, FLORIDA, SAID SUBDIVISION BEING A PART OF SECTIONS 31 AND 32, TOWNSHIP 37 SOUTH, RANGE 27 EAST, DESOTO COUNTY, FLORIDA.
 CONTAINING 371.461 ACRES.

- NOTES:
- Subject to all easements and restrictions of record.
 - Improvements such as, but not limited to, underground utilities, landscape features, etc. have not been located or graphically shown.
 - Date of most recent field survey: 8/5/14
 - This property appears on FEMA Flood Map #12072C 0225B, dated 6/03/88, Zone: A & X.
 - Bearings based on the North line of Section 31, T37S, R27E having a bearing of S 89°49'35" E (assumed).
 - This survey performed without benefit of Title Abstract.
 - The expected use of the land, as classified in the Minimum Technical Standards (50-17 FAC), is "Commercial/High Risk". The minimum relative distance accuracy for this type of boundary survey is 1 foot in 10,000 feet. The accuracy obtained by measurement and calculation of a closed geometric figure was found to exceed this requirement.
 - This Property is located within the Joshua Water Control District.
 - Interior drainage ditches not located or shown.

LEGEND:

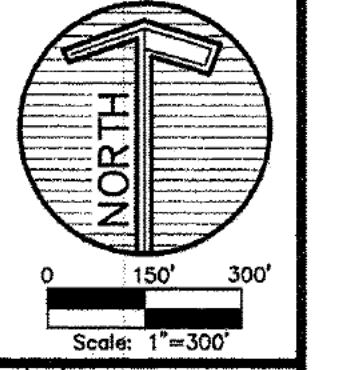
Fnd. Found	P.C.P. Permanent Control Point
Pr. Pre-rated Distance	P.R.M. Permanent Reference Monument
C.M. Concrete Monument	(R) Indicates Radial Bearing
N. North	C.L.F. Chain Link Fence
S. South	C.B. Concrete Block
E. East	Easmt. Easement
W. West	P.B./Pg. Plat Book/Page
P. Plot Dimension	O.R./Pg. Official Record Book/Page
M. Measured Dimension	Str. Structure
R/W Right of way	R.C. Radius of Curve
E/P Edge of Pavement	Δ Delta of Curve
D. Dead Dimension	L= Arc Length of Curve
O.A. Overall Dimension	Ch= Chord Length of Curve
B-B Back to Back Curb Dimension	+15.7 Indicates Spot Elevation
O.U.L. Overhead Utility Line	○ Indicates a 5/8" I. Rod w/Cap #3868 Set

Certified to:
 DESOTO RECYCLING & DISPOSAL, LLC

SURVEYOR'S CERTIFICATION
 I hereby certify that this boundary survey was prepared under my direction and supervision, that it is a true representation of the land as shown and described hereon to the best of my knowledge and belief and that it meets the "Minimum Technical Standards for land surveying in the State of Florida" Chapter 5J-17, Florida Administrative Code pursuant to Section 472.027 Florida Statutes.
 Date of Certificate: 8/20/14
 Lawrence R. Weber
 Professional Land Surveyor
 Florida Certificate No. 3868
 (Not valid unless embossed with original Surveyor's Seal)

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 Surveying & Mapping: 4000
 Engineering: 4000
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BOUNDARY SURVEY
 PT. SECTION 31, TWP. 37S, RGE. 27E
 DESOTO COUNTY, FLORIDA



Revision:	Description:

Job # 2010021
 Dwg # D-16026
 Date: 8/21/14
 Drawn by: RTK
 Checked by:
 Date:
 Law Office:
 State of Florida
 Surveyor & Mapper