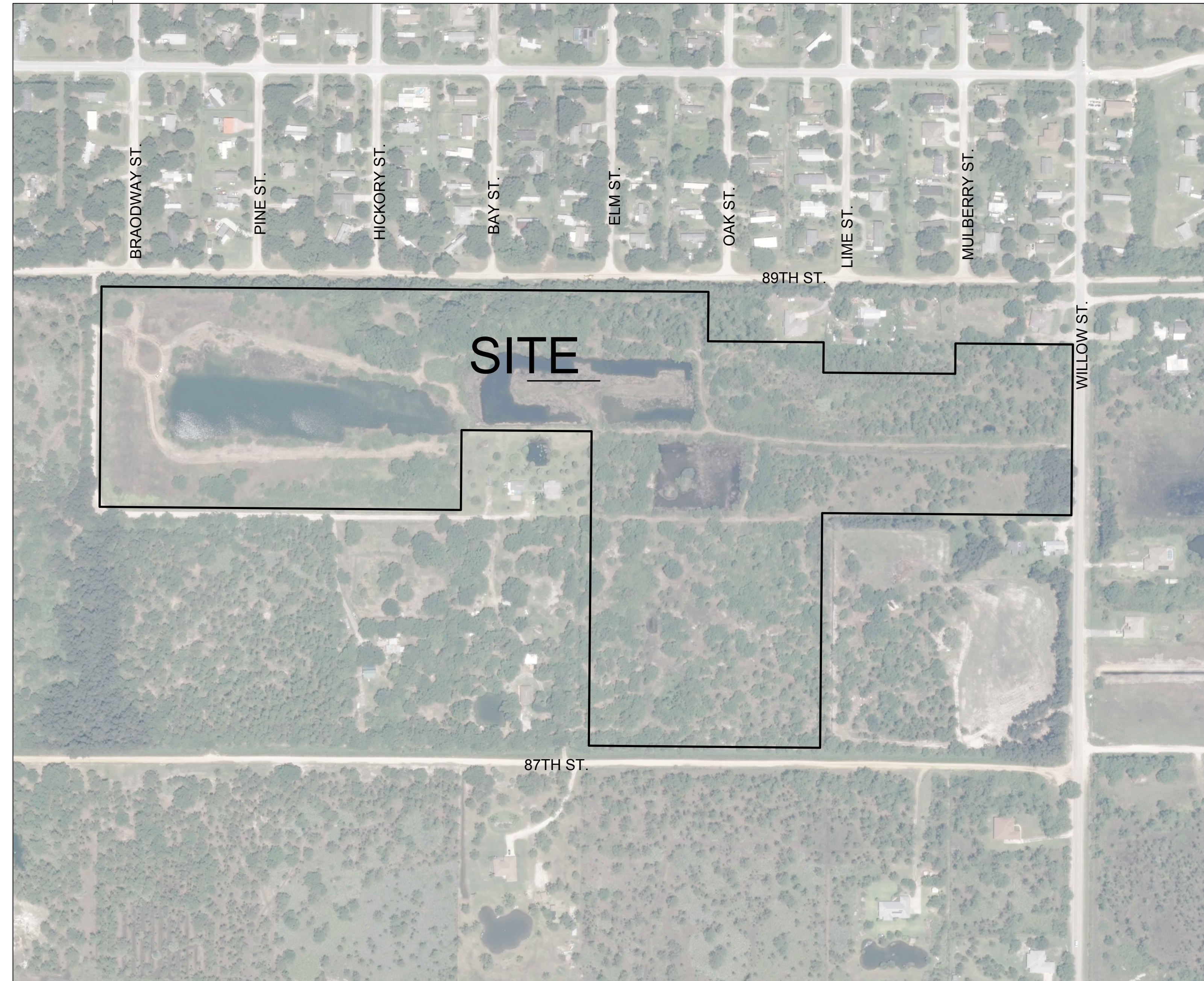


# CITY OF FELLOSMERE

NAVD 1988  
 ALL ELEVATIONS DEPICTED HEREON REFERENCE NAVD 1988. THE CONVERSION FACTOR TO NGVD 1929 IS +1.44'

## FELLOSMERE SOUTH REGIONAL LAKE

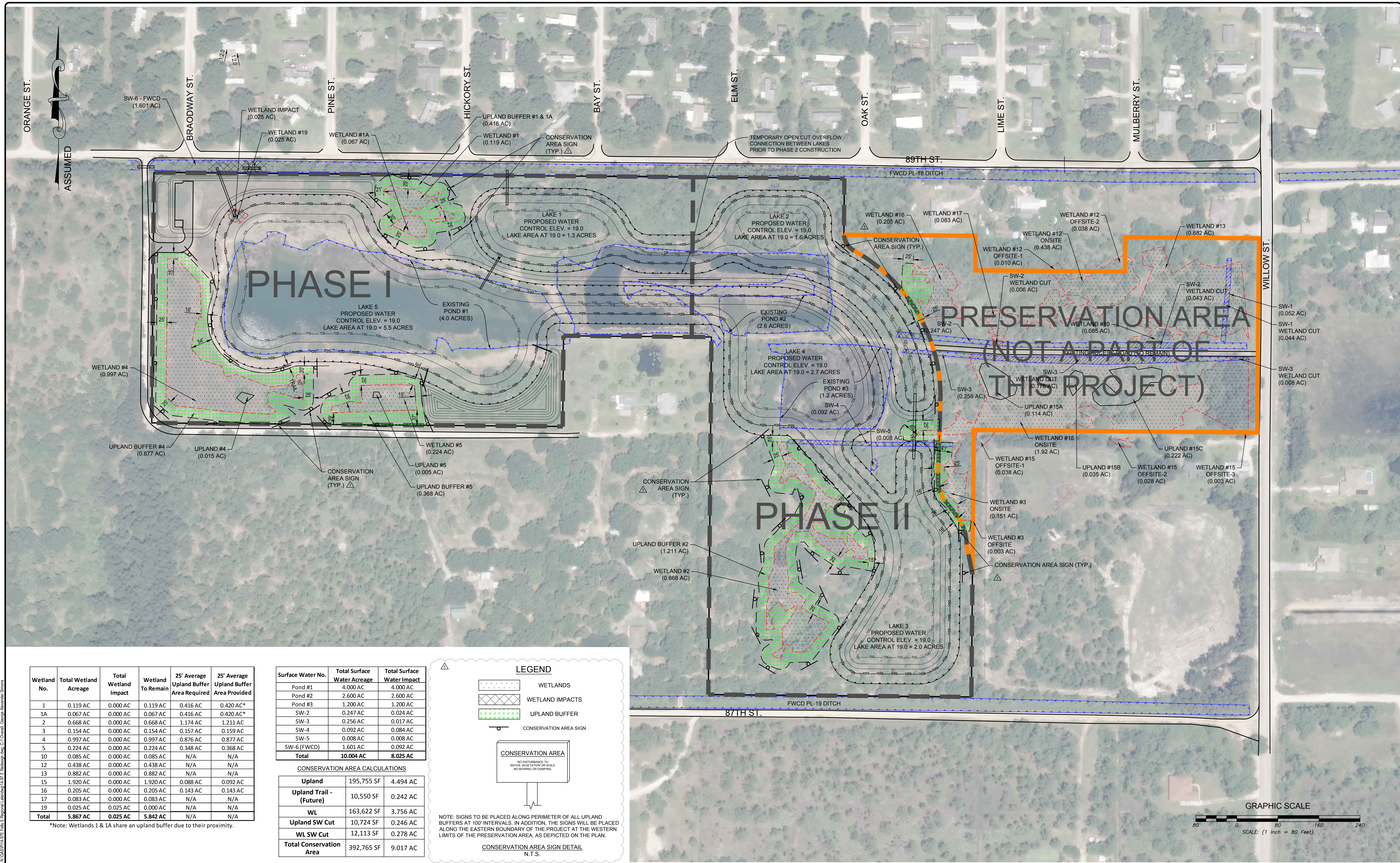


**AERIAL IMAGERY**  
1" = 200'

### SHEET INDEX

- C-1 OVERALL SITE PLAN W/ WETLAND IMPACTS
- C-2 NORTHWEST GRADING PLAN AND DETAILS
- C-3 NORTHEAST GRADING PLAN
- C-4 SOUTHERN GRADING PLAN
- C-5 CROSS SECTIONS
- C-6 GENERAL NOTES AND DETAILS
- C-7 EROSION CONTROL PLAN AND DETAILS

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Wetland No.	Total Wetland Acreage	Total Wetland Impact	Wetland To Remain	25' Average Upland Buffer Area Required	25' Average Upland Buffer Area Provided
1	0.119 AC	0.000 AC	0.119 AC	0.416 AC	0.420 AC*
1A	0.067 AC	0.000 AC	0.067 AC	0.416 AC	0.420 AC*
2	0.668 AC	0.000 AC	0.668 AC	1.174 AC	1.211 AC
3	0.154 AC	0.000 AC	0.154 AC	0.157 AC	0.159 AC
4	0.997 AC	0.000 AC	0.997 AC	0.876 AC	0.877 AC
5	0.224 AC	0.000 AC	0.224 AC	0.348 AC	0.368 AC
10	0.085 AC	0.000 AC	0.085 AC	N/A	N/A
12	0.438 AC	0.000 AC	0.438 AC	N/A	N/A
13	0.882 AC	0.000 AC	0.882 AC	N/A	N/A
15	1.920 AC	0.000 AC	1.920 AC	0.088 AC	0.092 AC
16	0.205 AC	0.000 AC	0.205 AC	0.143 AC	0.143 AC
17	0.083 AC	0.000 AC	0.083 AC	N/A	N/A
19	0.025 AC	0.000 AC	0.025 AC	N/A	N/A
<b>Total</b>	<b>5.867 AC</b>	<b>0.025 AC</b>	<b>5.842 AC</b>	<b>N/A</b>	<b>N/A</b>

\*Note: Wetlands 1 & 1A share an upland buffer due to their proximity.

Surface Water No.	Total Surface Water Acreage	Total Surface Water Impact
Pond #1	4.000 AC	2.600 AC
Pond #2	2.600 AC	1.200 AC
Pond #3	1.200 AC	0.024 AC
SW-2	0.247 AC	0.017 AC
SW-3	0.256 AC	0.084 AC
SW-4	0.092 AC	0.008 AC
SW-5	0.008 AC	0.092 AC
SW-6 (FWCD)	1.601 AC	0.002 AC
<b>Total</b>	<b>10.004 AC</b>	<b>8.025 AC</b>

CONSERVATION AREA CALCULATIONS		
Upland	195,755 SF	4.494 AC
Upland Trail - (Future)	10,550 SF	0.242 AC
WL	163,622 SF	3.756 AC
Upland SW Cut	10,724 SF	0.246 AC
WL SW Cut	12,113 SF	0.278 AC
<b>Total Conservation Area</b>	<b>392,765 SF</b>	<b>9.017 AC</b>

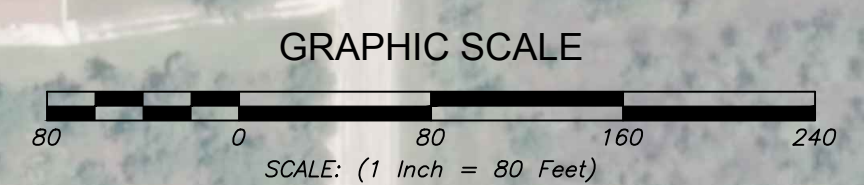
**LEGEND**

- WETLANDS
- WETLAND IMPACTS
- UPLAND BUFFER
- CONSERVATION AREA SIGN

**CONSERVATION AREA**  
NO DISTURBANCE TO NATIVE VEGETATION OR SOILS. NO MOWING OR DUMPING.

NOTE: SIGNS TO BE PLACED ALONG PERIMETER OF ALL UPLAND BUFFERS AT 100' INTERVALS. IN ADDITION, THE SIGNS WILL BE PLACED ALONG THE EASTERN BOUNDARY OF THE PROJECT AT THE WESTERN LIMITS OF THE PRESERVATION AREA, AS DEPICTED ON THE PLAN.

**CONSERVATION AREA SIGN DETAIL**  
N.T.S.



NO.	REVISION	BY	DATE

**City of Fellsmere**  
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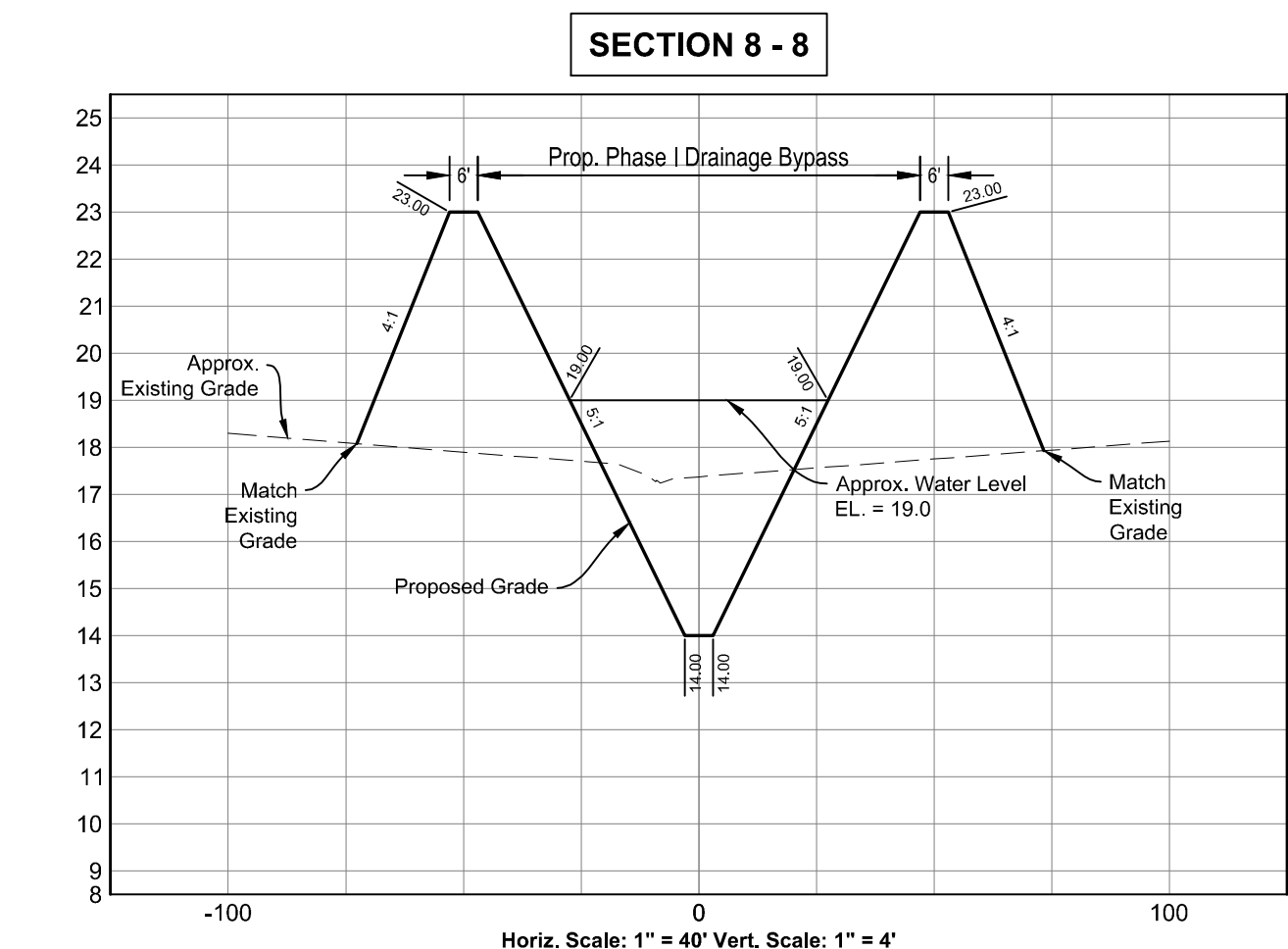
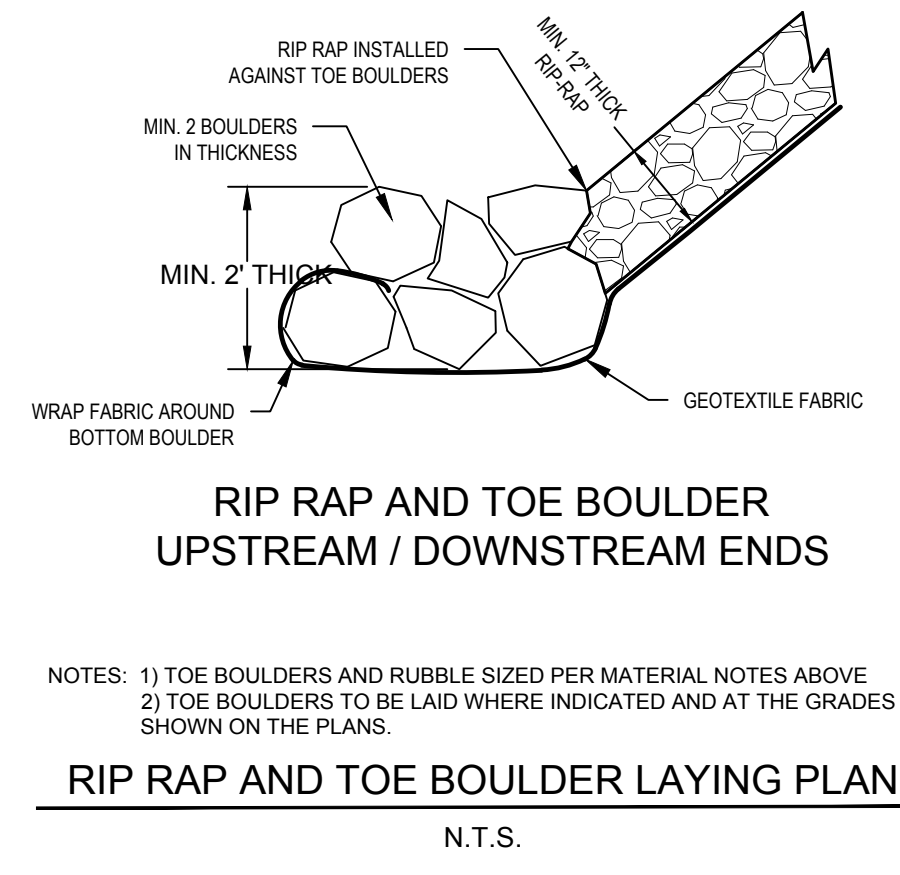
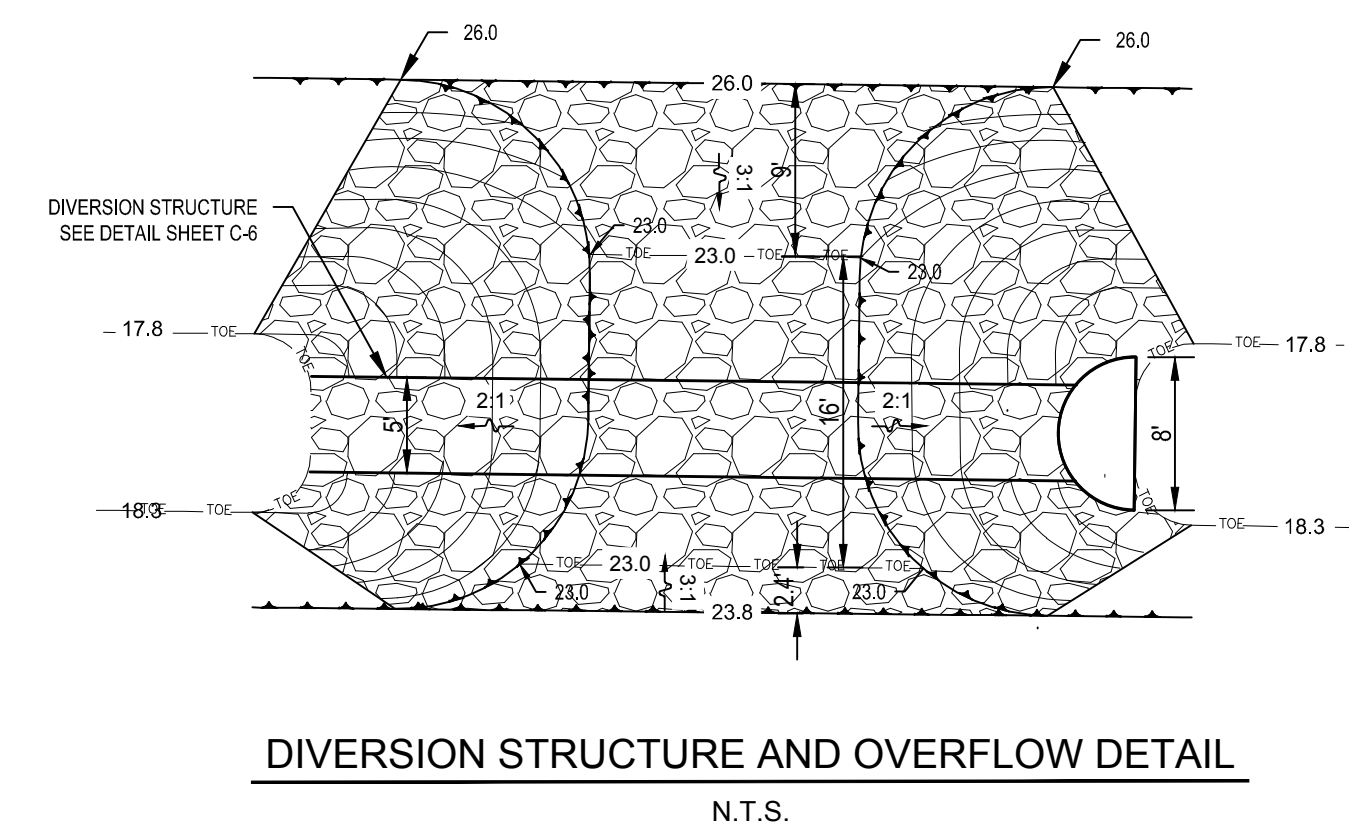
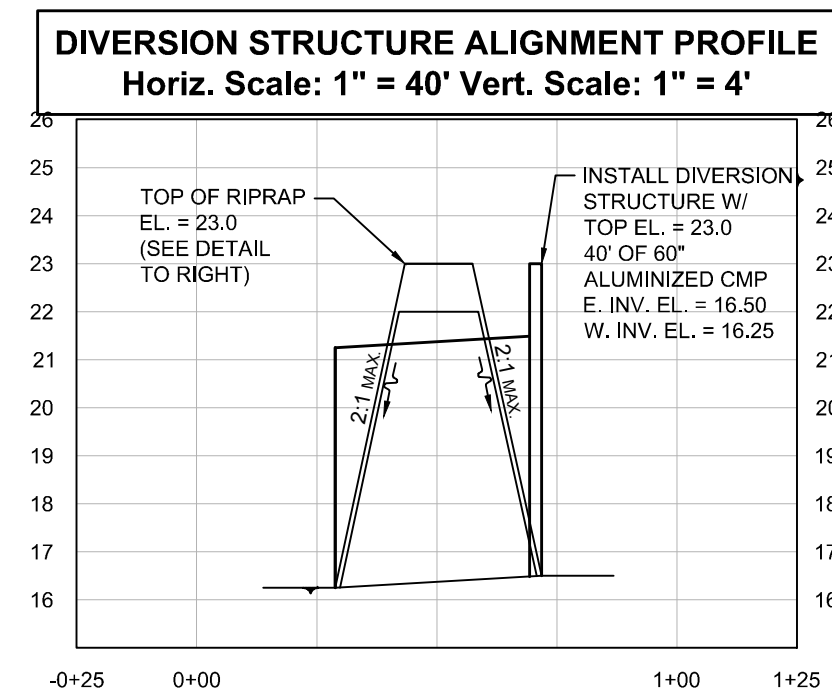
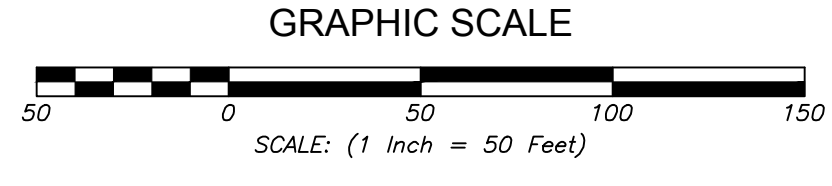
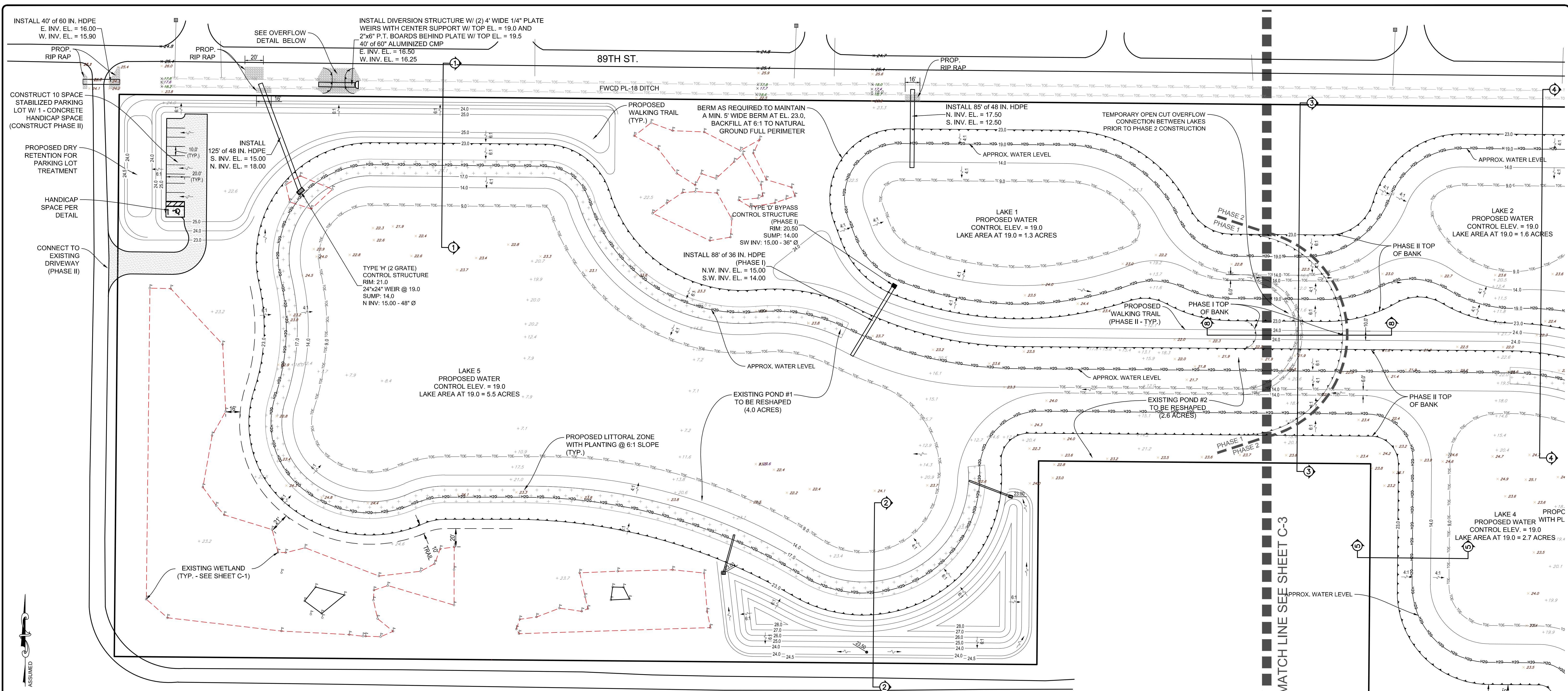
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APPD BY : CJR  
PLOT BY : George Alexander Simons  
FILE NAME : 14-97 E Redesign.dwg  
REF. # :  
F.B. & PG. :

**South Regional Lake**

**Overall Site Plan W/ Wetland Impacts**

**SHEET**  
**C-1**  
Dwg. #:



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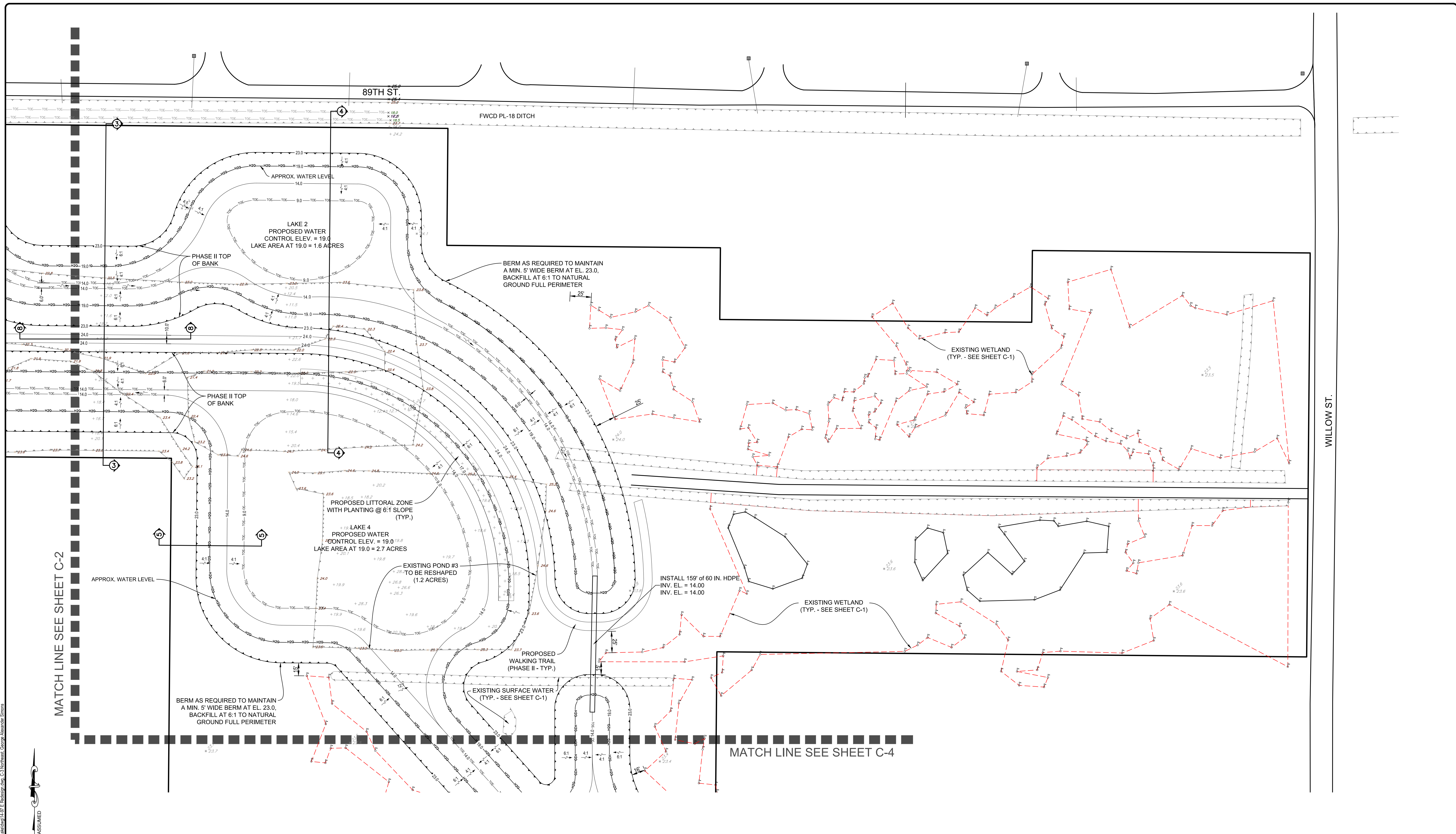
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COA 205 / LB 205

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**South Regional Lake**

**Northwest Grading Plan and Details**

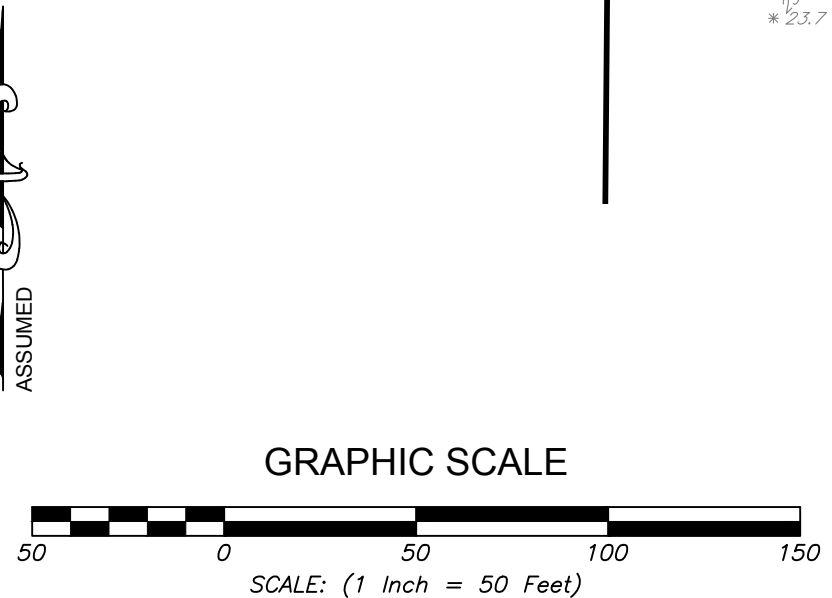
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**C-2**  
Dwg. #:



MATCH LINE SEE SHEET C-2

MATCH LINE SEE SHEET C-4

WILLOW ST.



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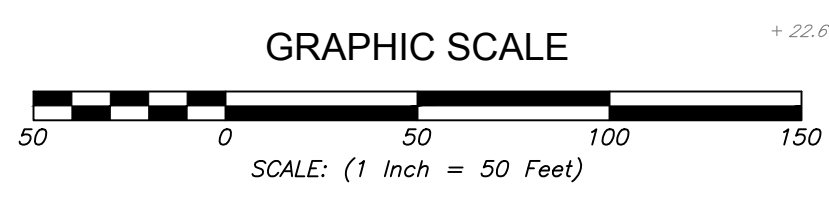
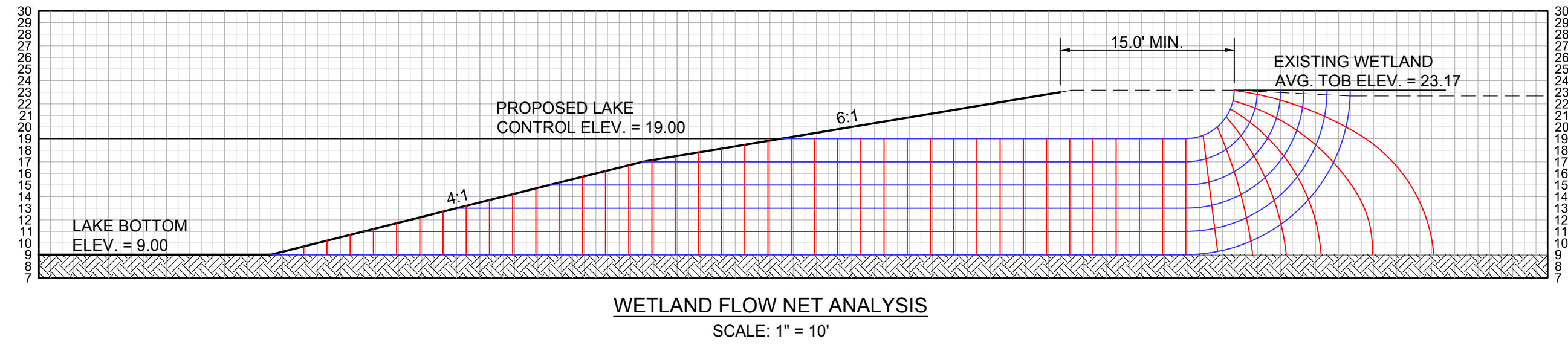
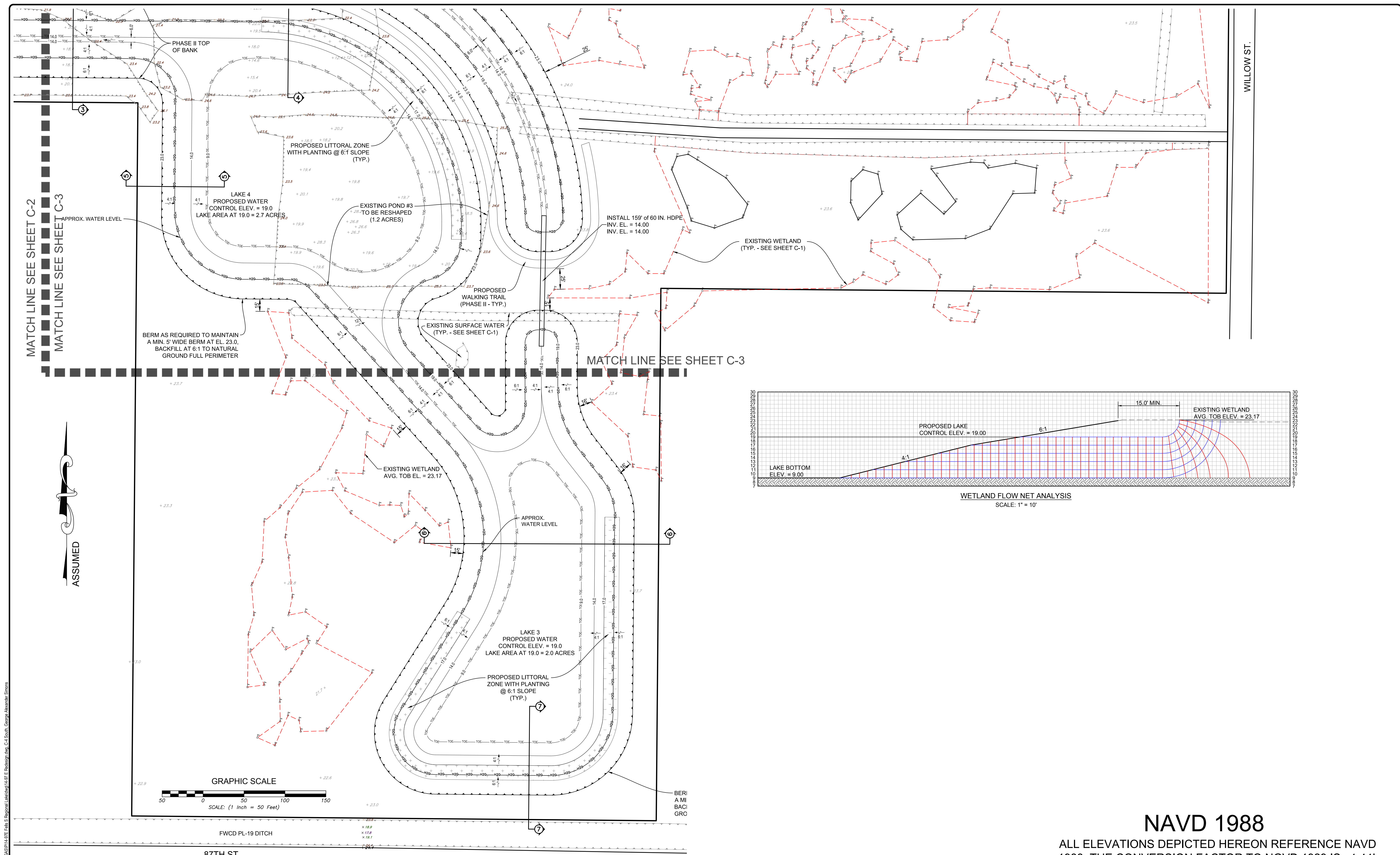
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 PLOT BY : George Alexander Simons  
 FILE NAME : 14-97 E Redesign.dwg  
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**South Regional Lake**  
 Northeast Grading Plan

SHEET  
**C-3**  
 Dwg. #:



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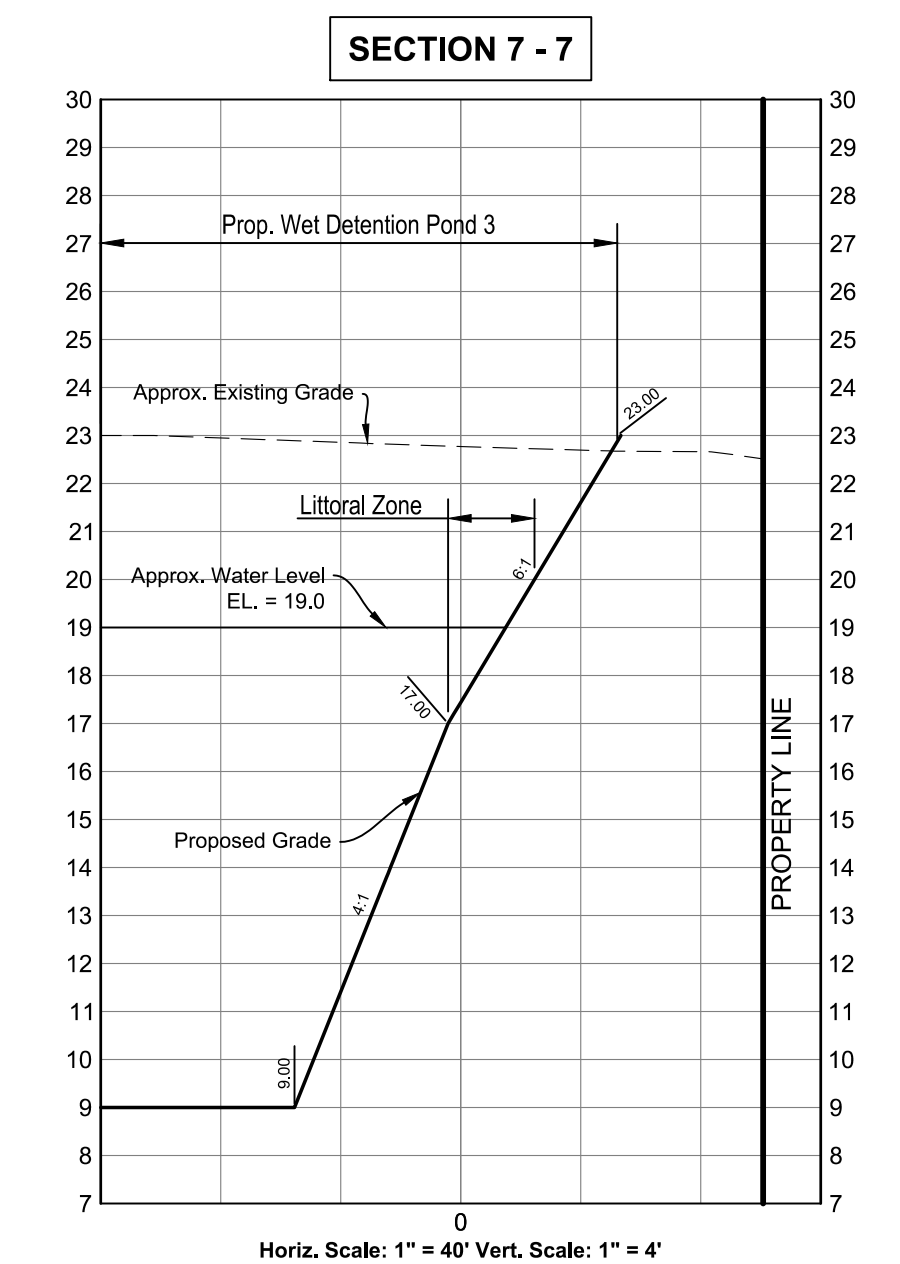
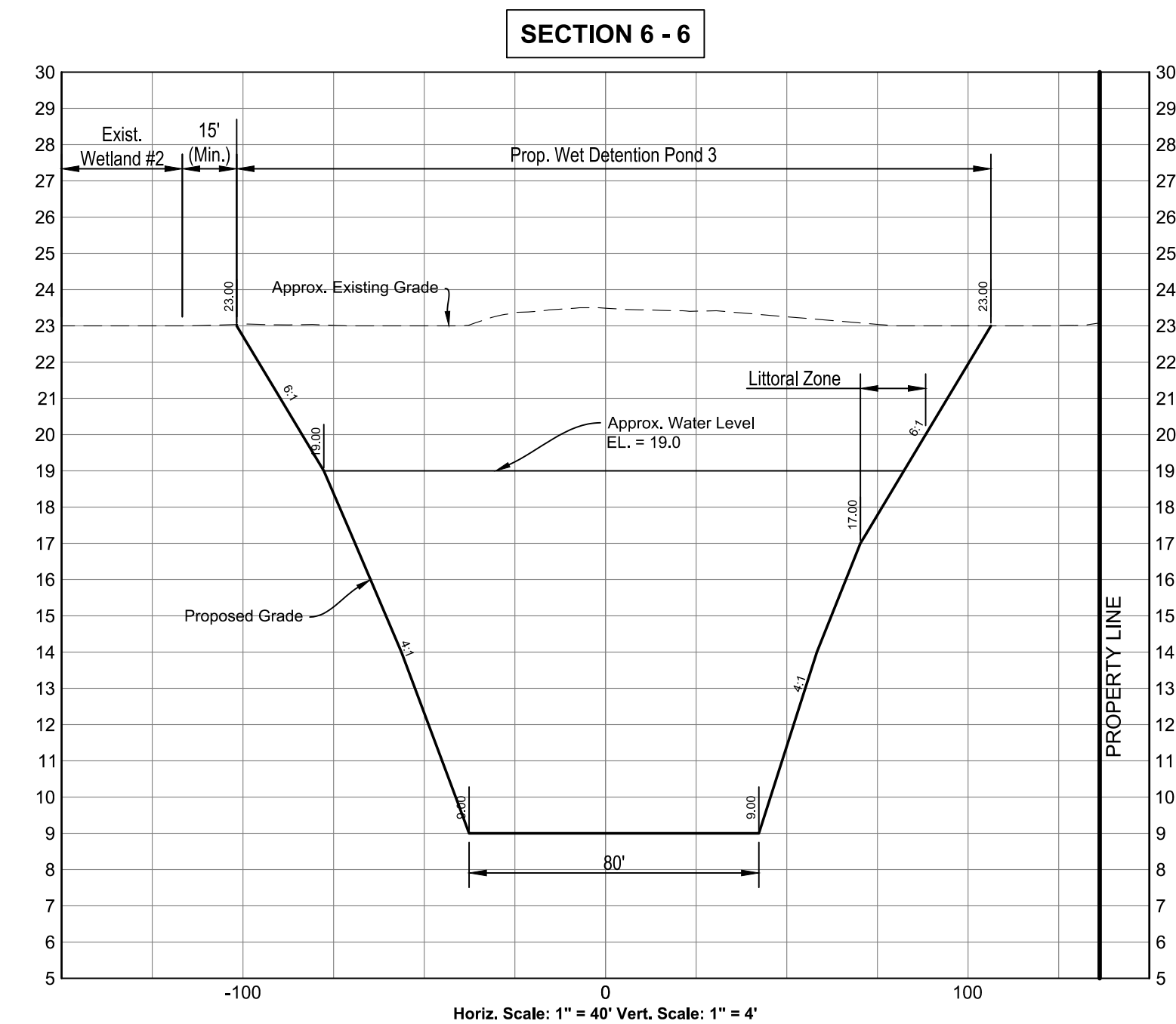
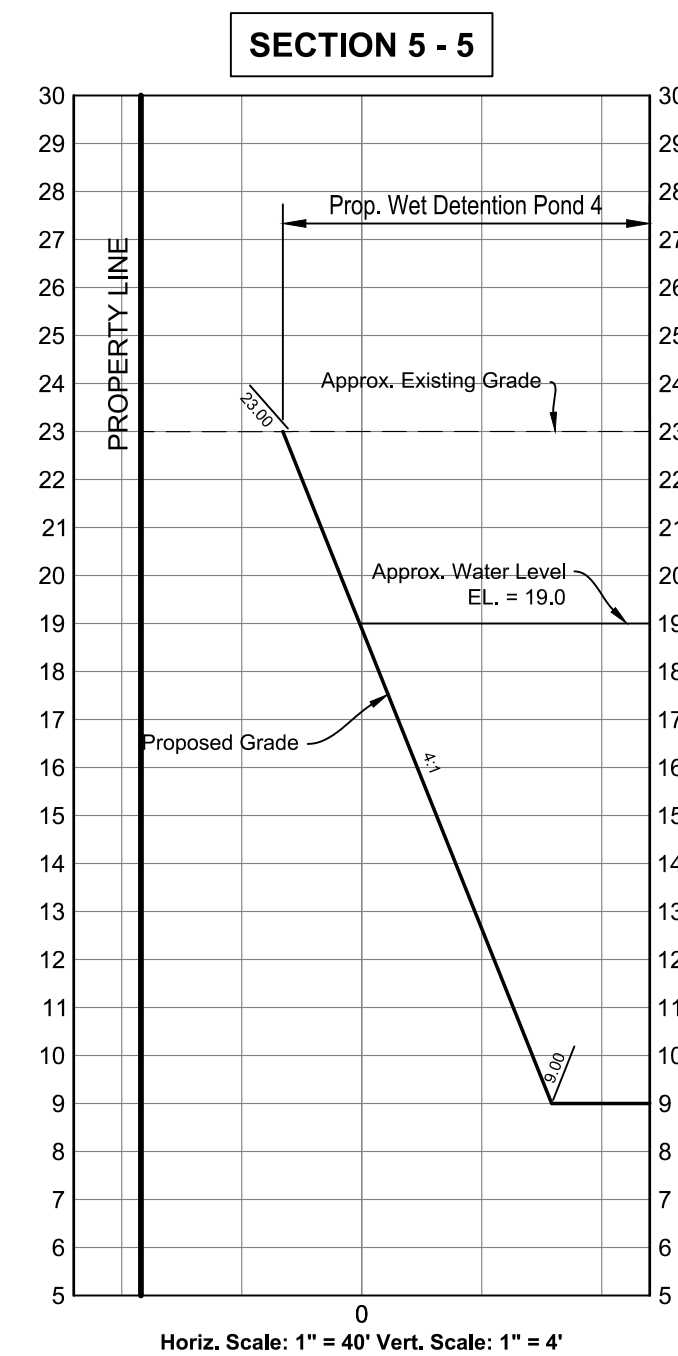
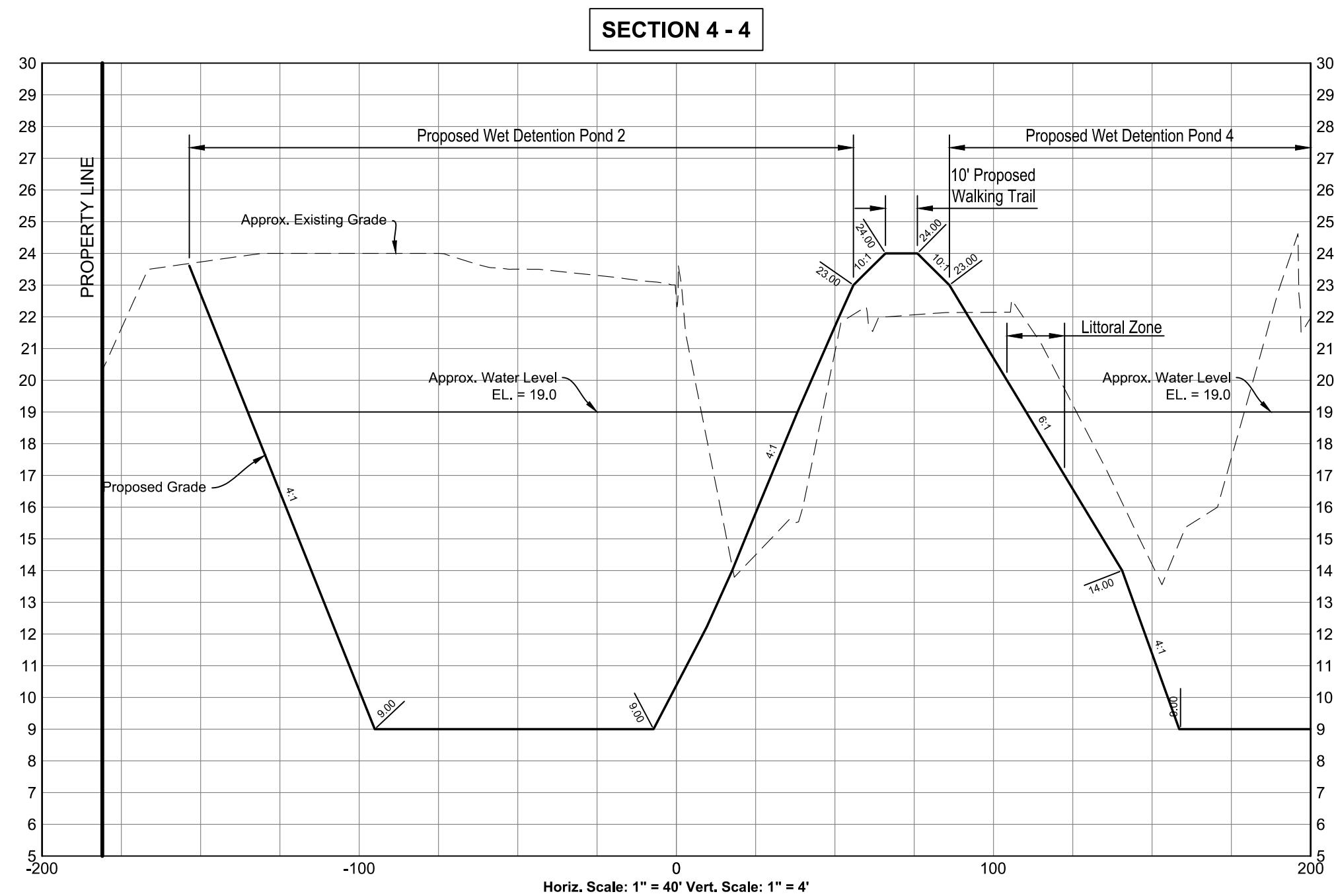
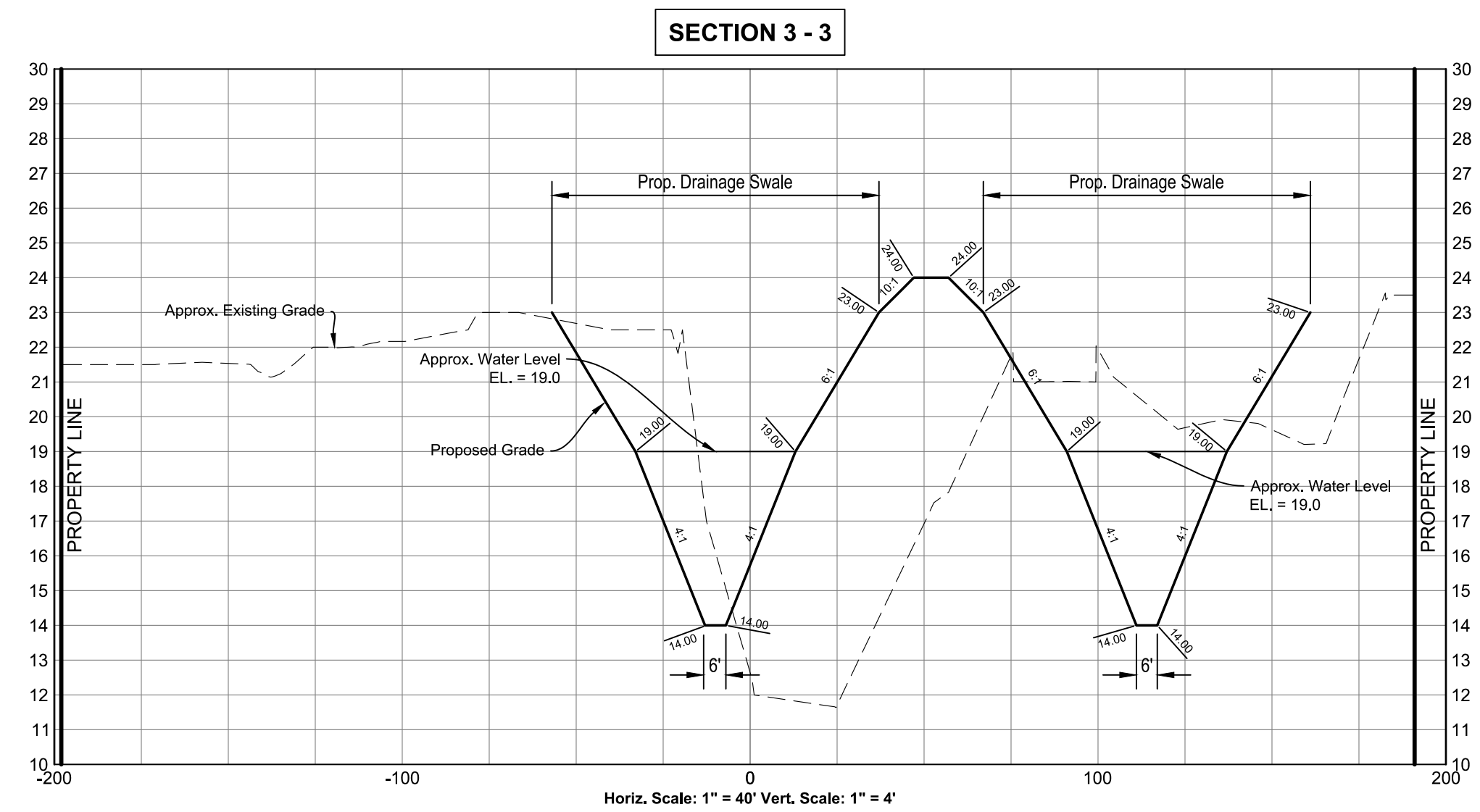
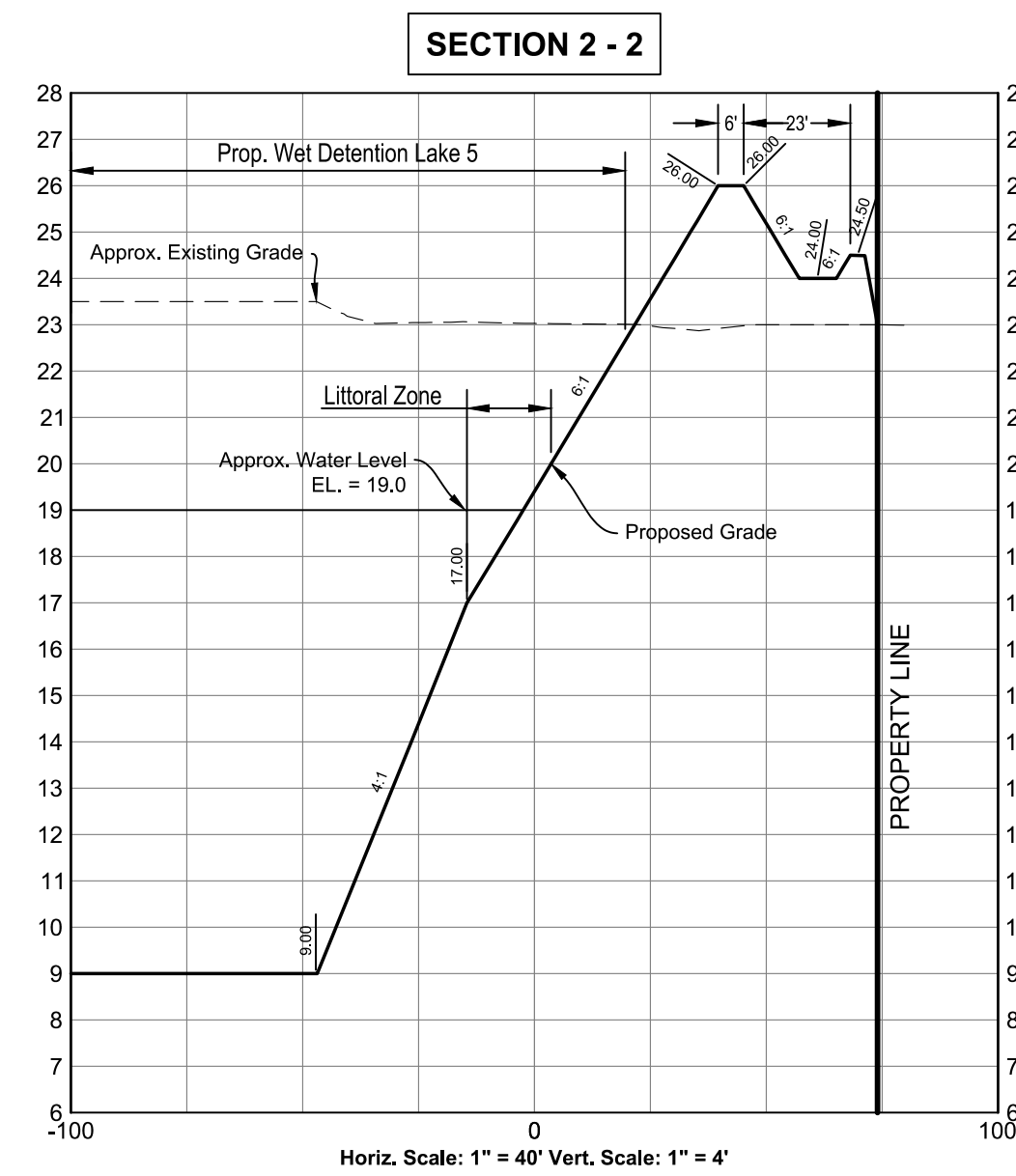
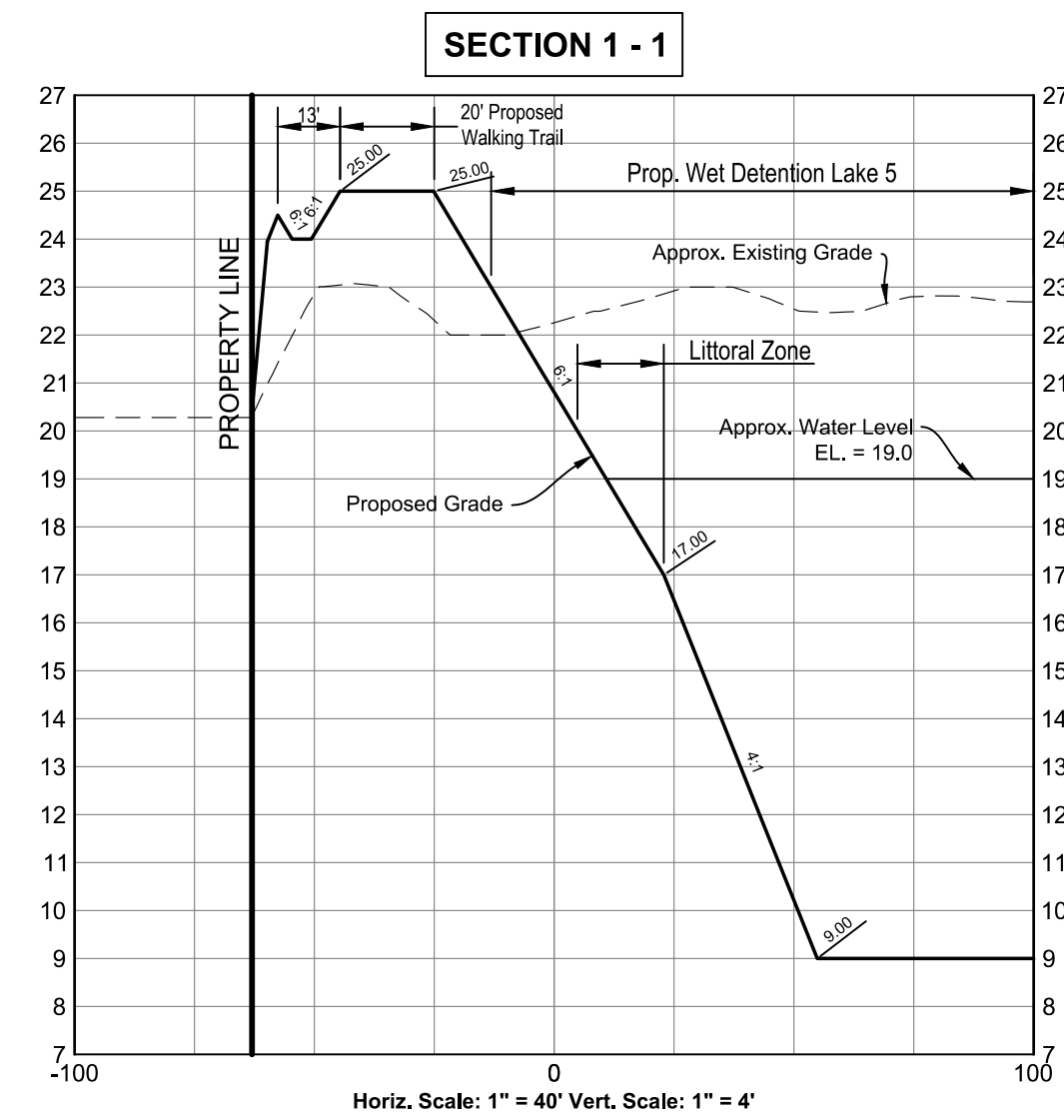
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**South Regional Lake**  
**Southern Grading Plan**

**SHEET**  
**C-4**  
 Dwg. #:

N:\GAS\PL-157E\14-97 E Redesign.dwg, C-4 South, George Alexander Simons



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N:\GASPL4\97E\Fels S Regional Landings\14-97 E Redesign.dwg, C-5 Sections, George Alexander Simons

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**South Regional Lake**

**Cross Sections**

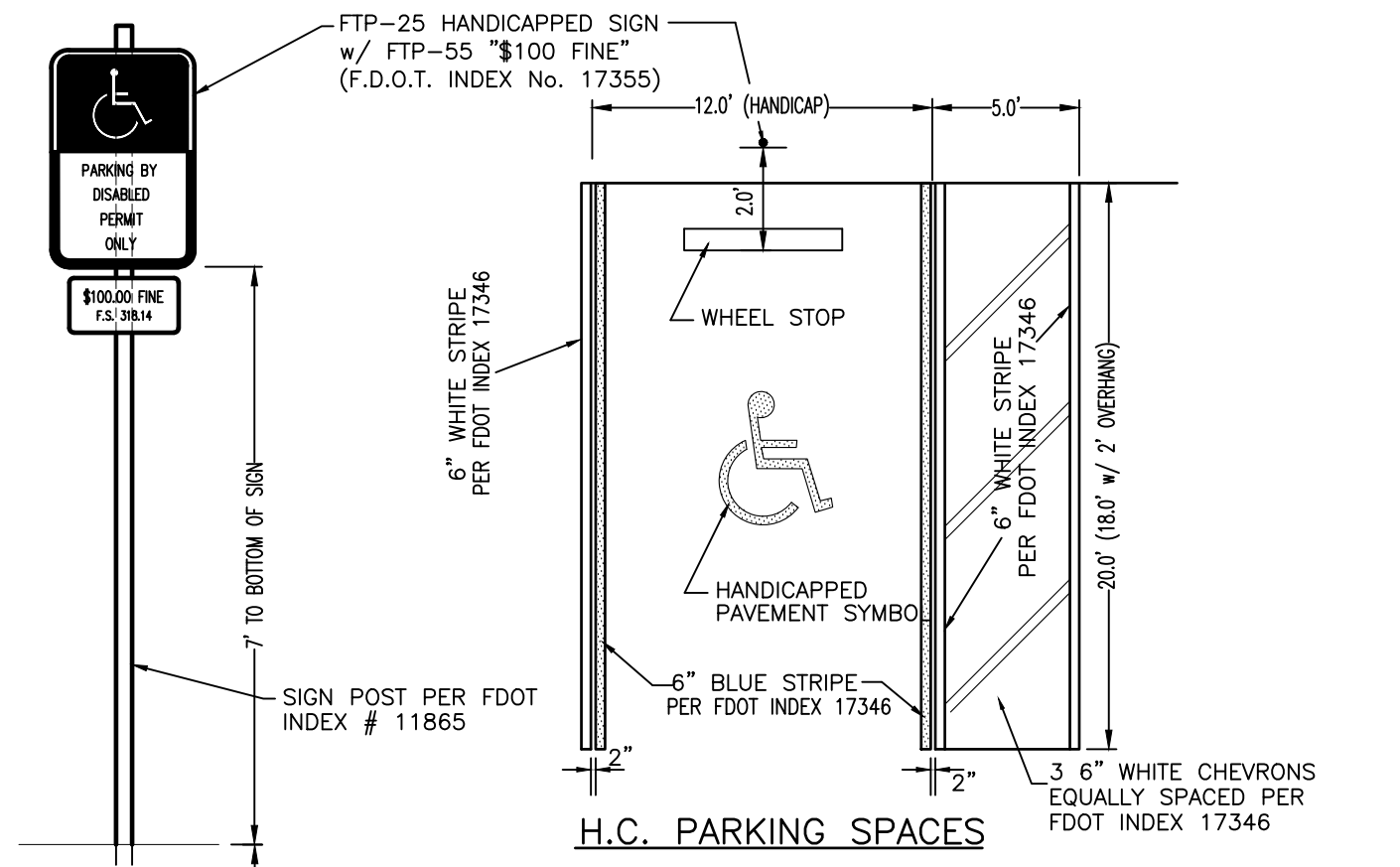
**SHEET**  
**C-5**  
 Dwg. #:

**GENERAL NOTES**

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES PRIOR TO ANY EXCAVATIONS. THE CONTRACTOR SHALL CALL SUNSHINE STATE ONE CALL AT 1-800-432-4770 AND THE UTILITY OWNERS AT LEAST 48 HOURS PRIOR TO DIGGING NEAR UNDERGROUND UTILITIES.
- A PRE-CONSTRUCTION MEETING IS REQUIRED BETWEEN OWNER, ENGINEER, GRANT CONSULTANT (IF APPLICABLE) AND CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ENGINEER, OR OWNER'S REPRESENTATIVE WHERE LATER DETERMINED, SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE FOR ANY INSPECTION. SEE BELOW FOR REQUIREMENTS AND LIST OF MINIMUM ENGINEERING INSPECTIONS.
- ALL DENSITY AND PROCTOR TESTS SHALL BE PERFORMED AND CERTIFIED BY AN INDEPENDENT GEOTECHNICAL TESTING LAB AND SHALL BE PAID FOR BY THE CONTRACTOR. PROCTOR TEST(S) SHALL BE PERFORMED FOR EACH INHERENTLY DIFFERENT TYPE OF BACKFILL AND/OR FOUNDATION MATERIAL. DENSITY TESTS SHALL BE PERFORMED PER AASHTO T-180 METHOD. DENSITY TEST SHALL BE PERFORMED ON PIPE BACKFILL AT TWO LOCATIONS ON EACH SIDE OF PIPE, WHERE DIRECTED BY THE ENGINEER. FOR EACH TWO FEET OF LIFT, DENSITY TESTS SHALL BE PERFORMED ON COMPACTED RISER FOUNDATION MATERIAL UNDER EACH RISER LOCATION, WHERE DIRECTED BY THE ENGINEER. FOR EACH ONE FOOT OF LIFT, CONTRACTOR SHALL SUPPLY COPIES OF SIGNED SEALED DENSITY TESTS PERFORMED.
- ALL PIPING SHALL BE INSTALLED IN THE DRY. CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMITS FOR OFF-SITE DEWATERING IF NECESSARY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RESTORATION OF EXISTING CANAL BANKS DAMAGED OR DISTURBED DURING CONSTRUCTION AS A RESULT OF THE CONTRACTOR'S OPERATIONS AND/OR THOSE OF HIS SUB-CONTRACTORS, AND SHALL RESTORE THEM PROMPTLY.
- EXCEPT FOR THE INSTALLED STABILIZED PARKING AREA, ALL OTHER NON-SUBMERGED AREAS DISTURBED BY CONSTRUCTION SHALL BE FULLY SEEDED AND MULCHED WITHIN SEVEN (7) DAYS OF FINAL GRADING. SURFACE AREAS WITH SLOPES GREATER THAN 1:8 SHALL BE SODDED (INCLUDING DITCH BANKS TO NORMAL WATERLINES SHOWN ON THE DRAWINGS).
- ALL NON-COHESIVE SOILS OR OTHER UNACCEPTABLE BACKFILL MATERIALS EXCAVATED SHALL BE STOCKPILED AND LATER USED FOR IMPERVIOUS BARRIER OR HAULED OFF-SITE AT CONTRACTOR'S REQUEST.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS IN ACCORDANCE WITH THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT REQUIREMENTS. THESE DETAILS HAVE GENERALLY BEEN INCLUDED ON THIS PLAN FOR REFERENCE BUT MAY BE REQUIRED TO BE EXPANDED IF CONDITIONS WARRANT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A ST. JOHNS RIVER WATER MANAGEMENT DISTRICT CONSUMPTIVE USE PERMIT FOR THE CONTRACTOR'S DE-WATERING OPERATIONS, IF WATER IS PUMPED OFF-SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION NPDES NO PERMIT DURING CONSTRUCTION. ENGINEER MAY ASSIST IN PROVIDING STORMWATER POLLUTION PREVENTION PLAN AT THE COST OF THE CONTRACTOR.

**INSTALLATION NOTES:**

- ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE SEEDED (OR SODDED WHERE SPECIFIED), MULCHED AND WATERED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
- MECHANIZED COMPACTION EQUIPMENT SHALL NOT BE ALLOWED WITHIN 2 FEET OF PIPE IN TRENCH OR WITHIN 1 FOOT ABOVE PIPE CROWN INSTALLATION.
- CONTRACTOR TO PROVIDE TRENCH REINFORCING IN ACCORDANCE WITH THE "FLORIDA TRENCH SAFETY ACT" AND PER OSHA STANDARDS. THE COST FOR PROPER TRENCHING SHALL BE INCLUDED IN THE BID.
- CONTRACTOR SHALL LAY NEW PIPE AND RISER IN THE DRY. THE WATER TABLE SHALL BE LOWERED TO A POINT 6" (MIN.) BELOW THE NEW PIPE FOUNDATION BASE DURING INSTALLATION, BACKFILL AND COMPACTION.
- THE CONTRACTOR SHALL TAKE SPECIAL CARE IN SELECTING BACKFILL MATERIALS PLACED AGAINST THE NEW RISERS AND PIPE INSTALLATIONS. ONLY CLEAN COHESIVE SOILS CONTAINING NO ROCKS, CLODS, LUMPS, ORGANICS OR OTHER OBJECTIONABLE MATERIALS SHALL BE PLACED WITHIN 2 FEET OF THE NEW RISERS OR PIPES.
- ALL BACKFILL PLACED WITHIN 2 FEET OF THE SIDES AND 1 FOOT ABOVE THE CROWN OF THE NEW CULVERT PIPE SHALL BE COMPACTED TO 98% MAXIMUM DENSITY PER AASHTO T-180, BY MEANS OF A WALK BEHIND VIBRATING PLATE TAMPER. OUTSIDE THESE LIMITS, BACKFILL SHALL BE COMPACTED TO 95% MAXIMUM DENSITY PER AASHTO T-180, CAUTIOUSLY USING MECHANIZED COMPACTION EQUIPMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS IN ACCORDANCE WITH SOUTH FLORIDA WATER MANAGEMENT DISTRICT REQUIREMENTS. IN GENERAL, EROSION CONTROL SHALL CONSIST OF PLACEMENT OF SILT FENCE OR TURBIDITY BARRIERS ON THE DOWN SLOPE SIDE OF DISTURBED AREAS AT POINTS OF CONCENTRATED RUNOFF.

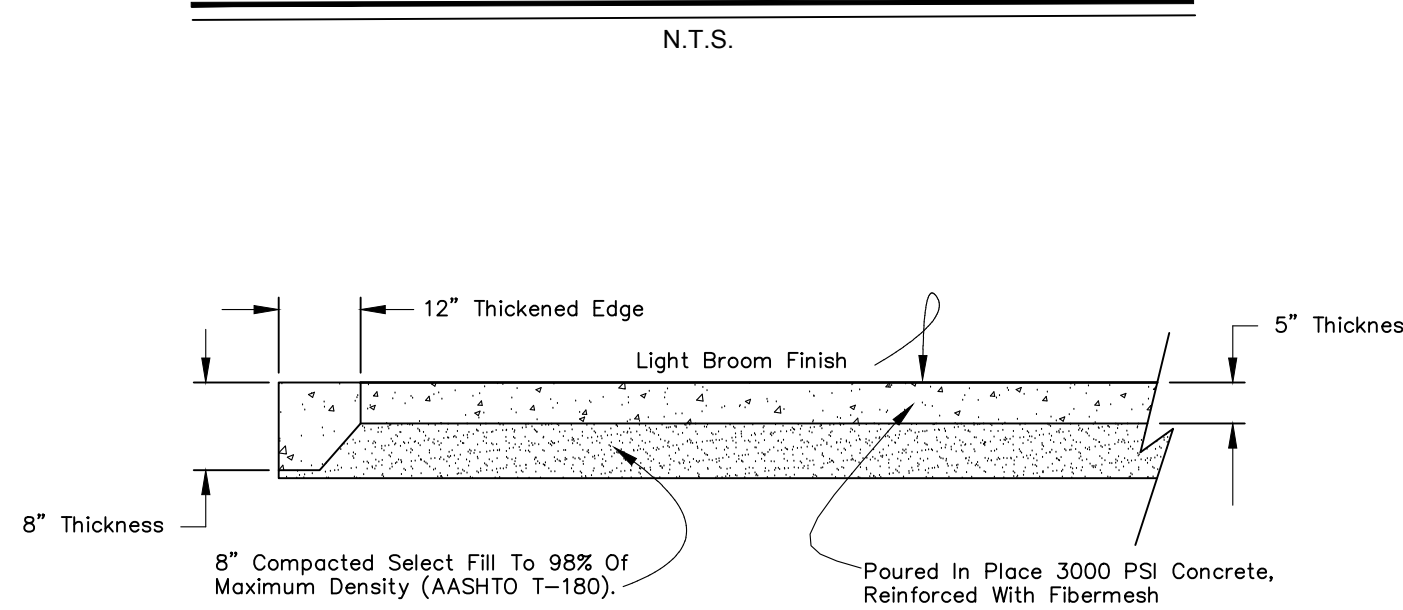


**H.C. PARKING SPACES**

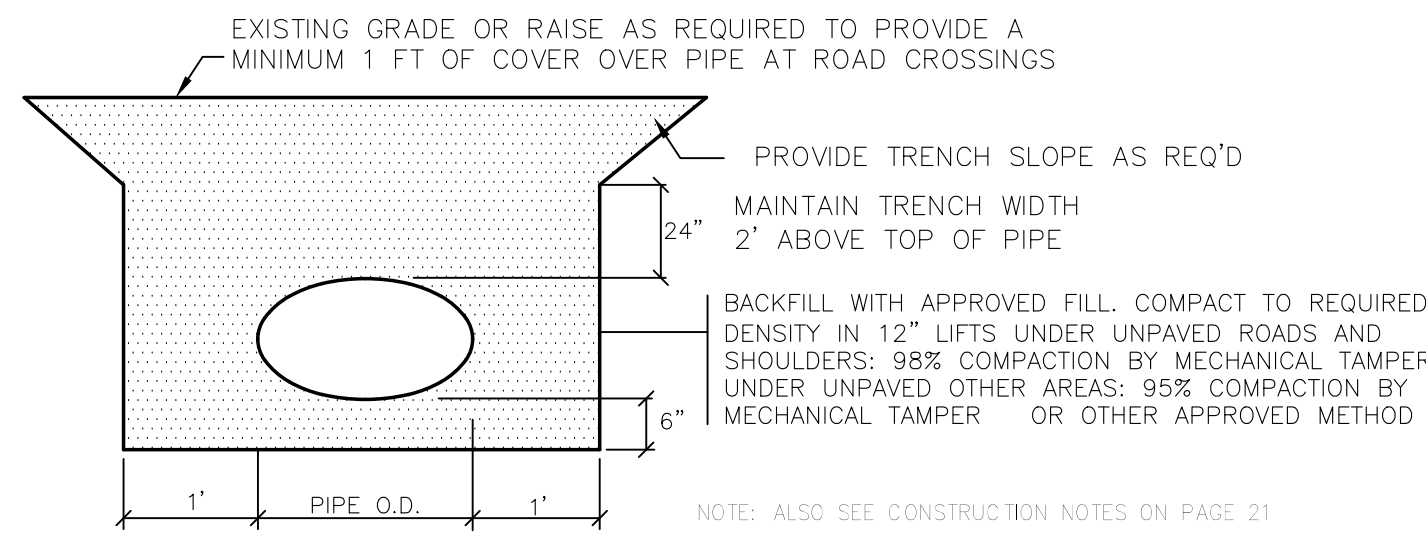
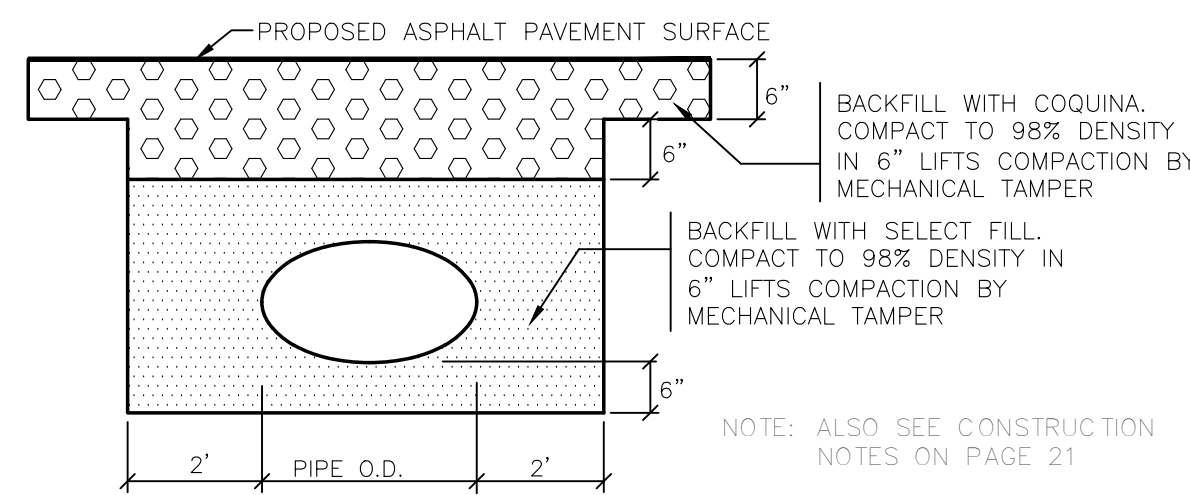
NOTE: ALL HANDICAPPED PARKING SPACES SHALL BE PROPERLY SIGNED AND MARKED IN ACCORDANCE WITH THE F.D.O.T. STANDARD INDEX 17346.

NOTE: ALL PARKING SPACES WITH THE EXCEPTION OF THE HANDICAPPED PARKING SPACES SHALL BE MARKED IN WHITE, RETRO-REFLECTIVE TRAFFIC PAINT AND BE IN ACCORDANCE WITH THE F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, LATEST EDITION, SECTION 710.

**PARKING SPACE DETAILS**

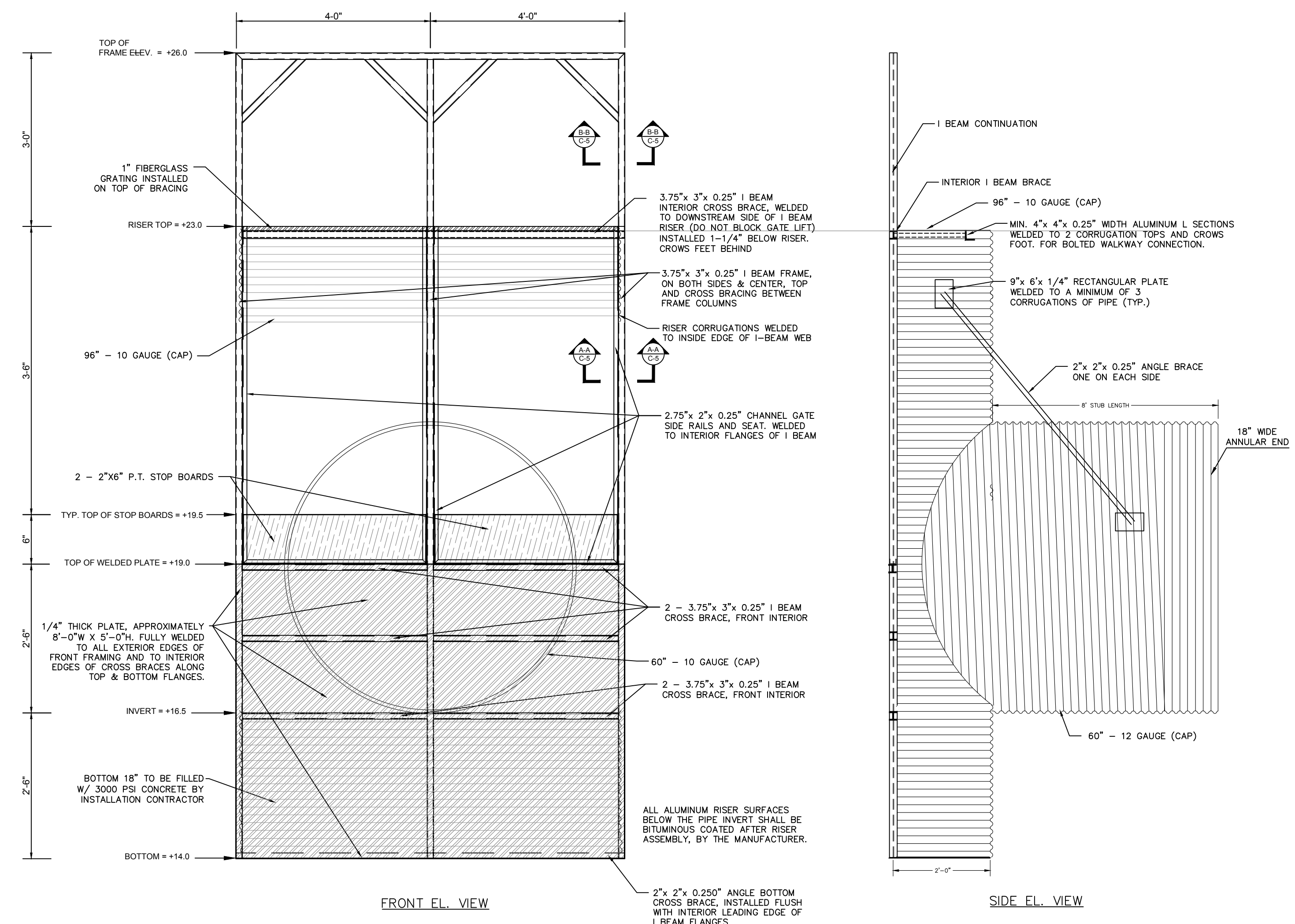
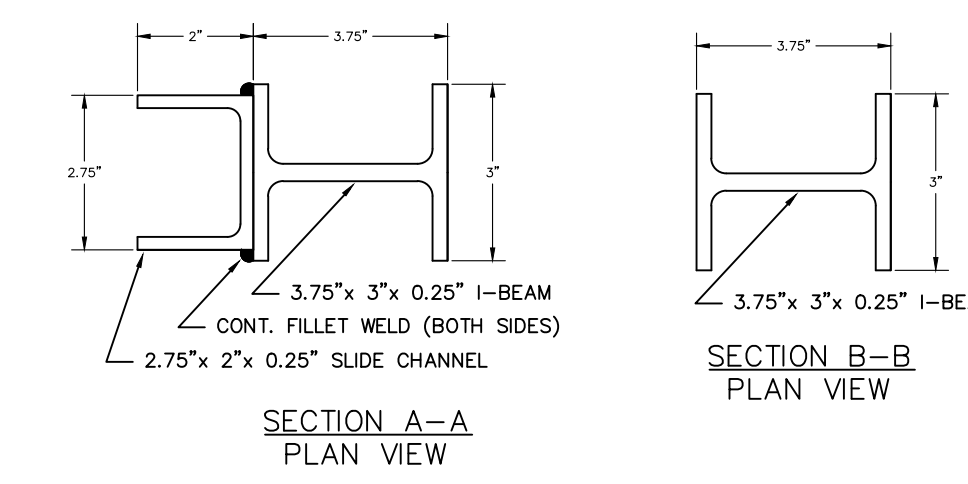


**PARKING SPACE PAVEMENT DETAIL**

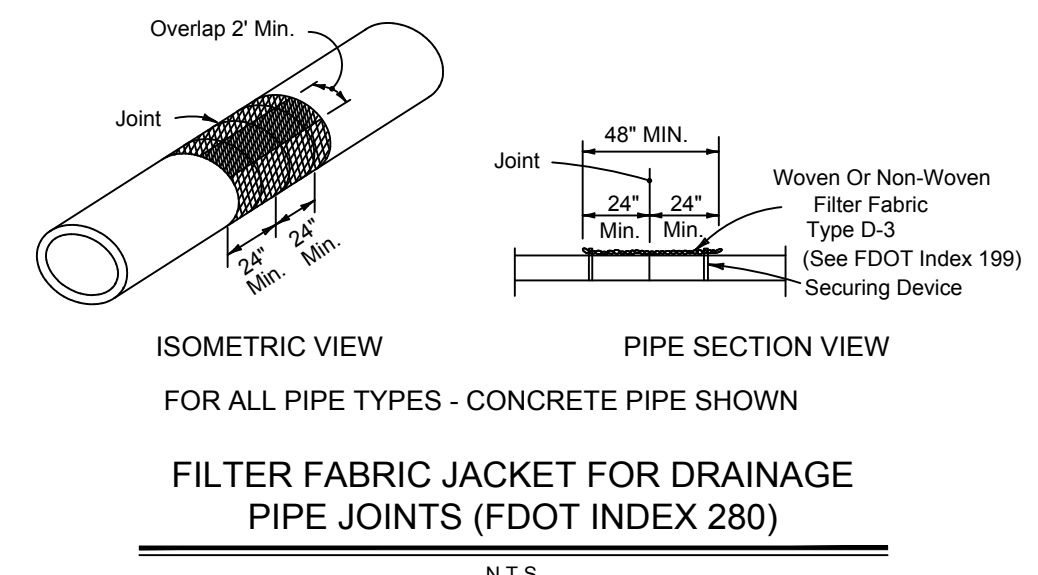


**PIPE BACKFILL DETAIL (UNPAVED AREAS)**

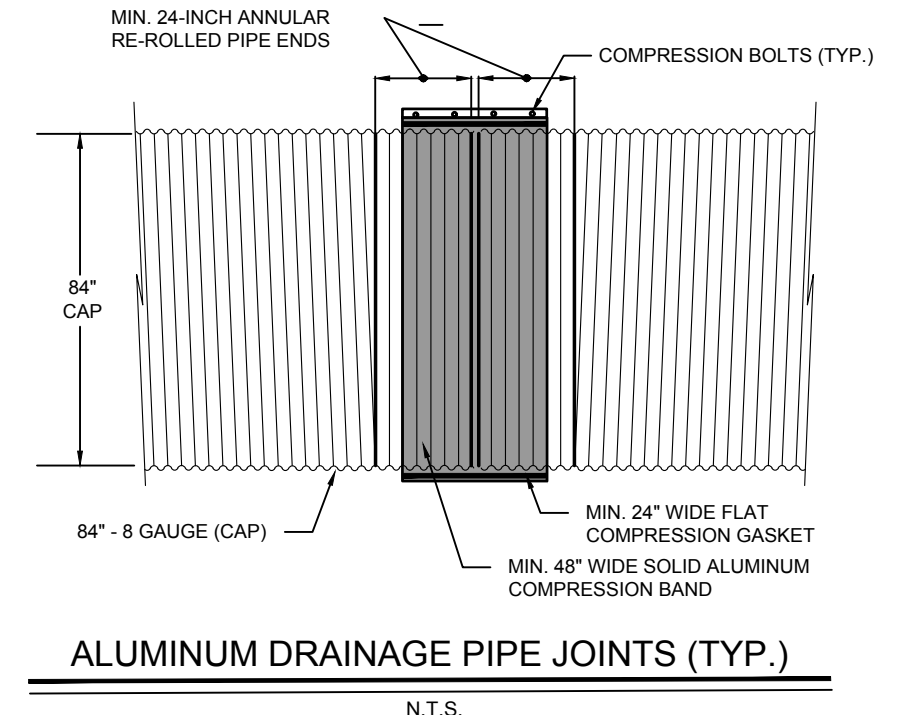
**PIPE BACKFILL DETAIL (PAVED AREAS W/ MORE THAN 18" COVER)**



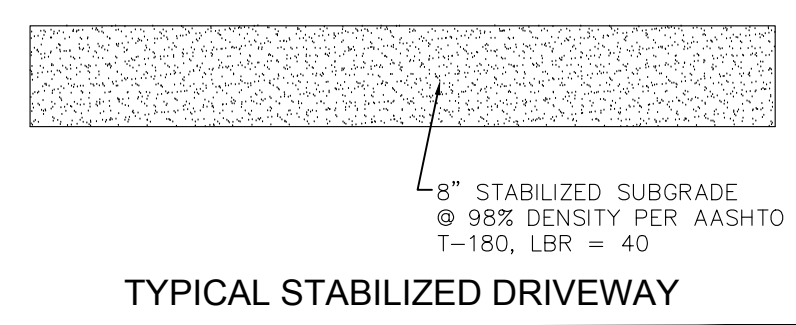
**PL-18 DIVERSION STRUCTURE DETAIL**



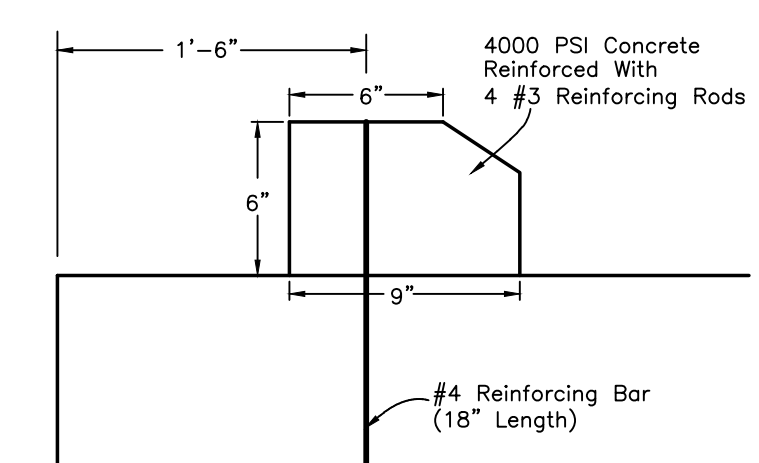
**FILTER FABRIC JACKET FOR DRAINAGE PIPE JOINTS (FDOT INDEX 280)**



**ALUMINUM DRAINAGE PIPE JOINTS (TYP.)**



**TYPICAL STABILIZED DRIVEWAY**



**CONCRETE WHEEL STOP**

N:\GASPI4\SP1E\Task 5 Regional Landings\1.97 E Redesign.dwg, C-6 General Notes and Details, George Alexander Simons

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F.B. & PG. :

**South Regional Lake**

**General Notes and Details**

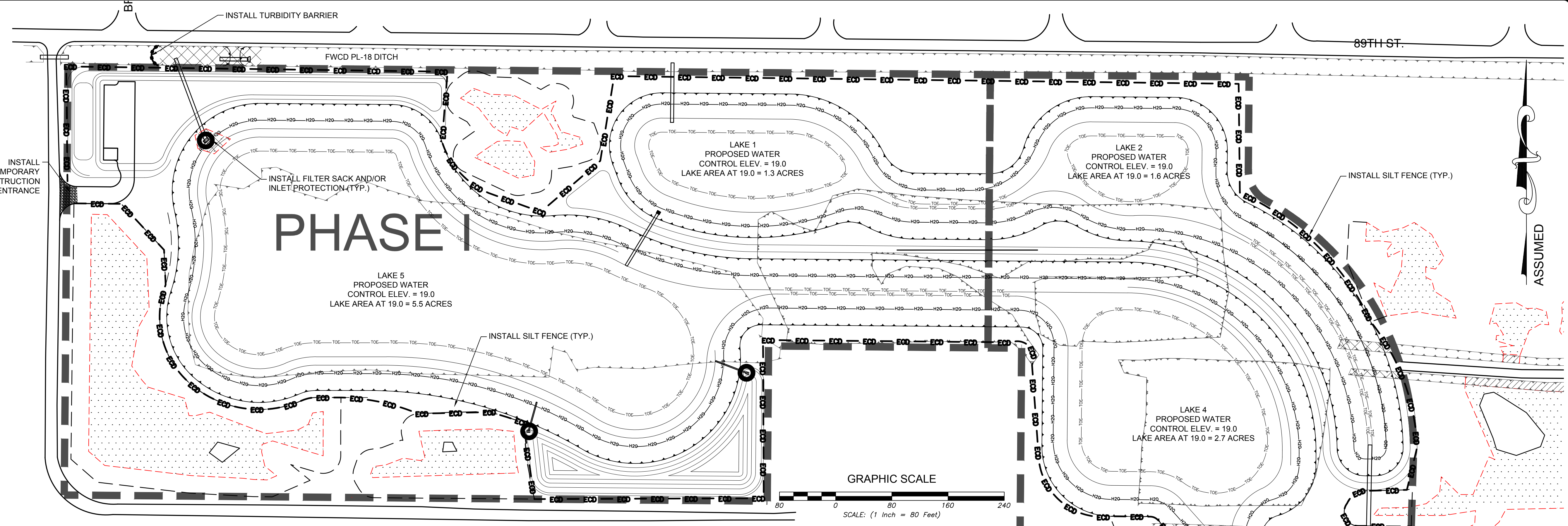
**SHEET**

**C-6**

Dwg.#:

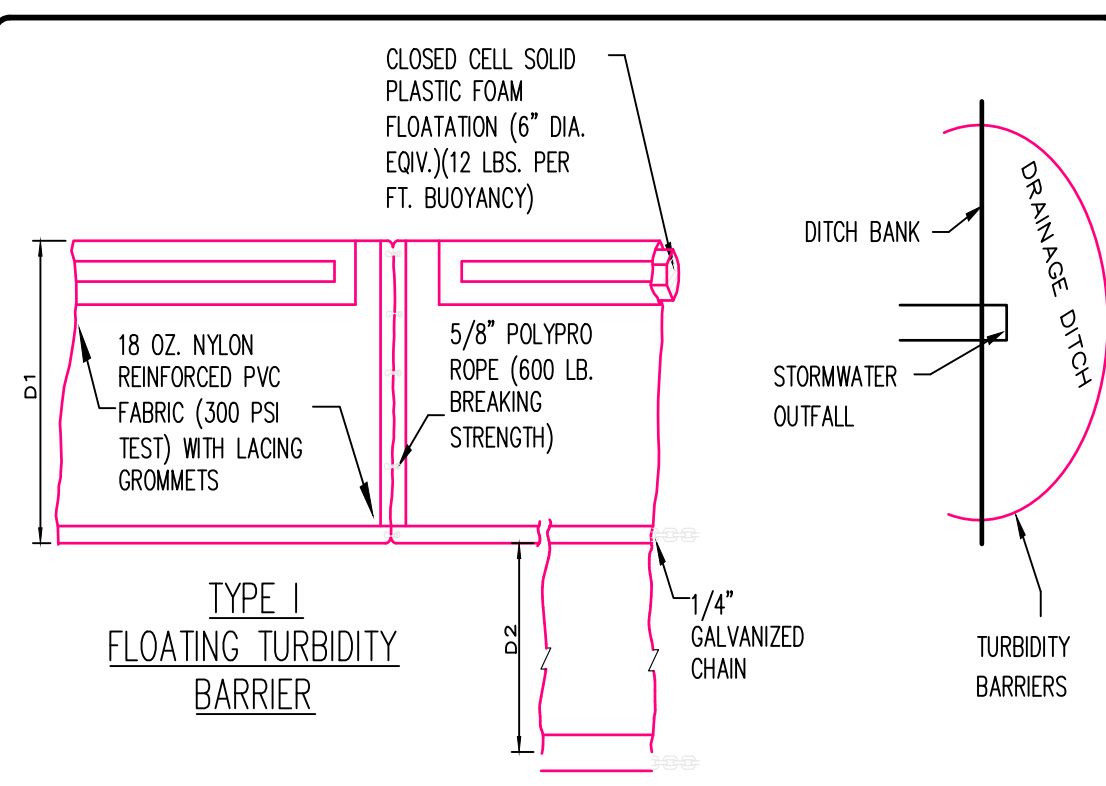
**EROSION CONTROL NOTES**

- CONTRACTOR SHALL OBTAIN COVERAGE UNDER FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO THE REQUIREMENTS OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES INCLUDING THE ADHERENCE TO THE SITE SPECIFIC STORMWATER POLLUTION PREVENTION PLAN.
- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- ANY DISTURBED AREAS THAT WILL NOT RECEIVE PERMANENT RESTORATION WITHIN TEN (10) DAYS (OR 72 HOURS FOR SLOPED BANKS OF 3:1 OR GREATER) AFTER FINAL GRADING, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY COVER. THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE IN ACCORDANCE WITH F.D.O.T. STANDARDS.
- THE OWNER OR HIS AUTHORIZED FIELD REPRESENTATIVE SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF ANY LAND CLEARING ACTIVITY.
- ALL SOIL EROSION AND SEDIMENT CONTROL INSTALLATIONS SHALL BE IN PLACE PRIOR TO OR IMMEDIATELY FOLLOWING SITE CLEARING.
- ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE LOCATED AS SHOWN ON THE DRAWINGS OR IN THE FIELD AS REQUIRED AT THE DIRECTION OF THE OWNER OR HIS AUTHORIZED REPRESENTATIVE. THE CONTRACT DRAWINGS ARE NOT INTENDED TO SHOW THE LOCATION AND DETAILS FOR ALL SUCH DEVICES BUT ARE TO BE USED AS A REASONABLE GUIDE.
- THE CONTRACTOR SHALL MEET THE OWNER'S REPRESENTATIVE ON-SITE TO DEFINE THOSE AREAS WHICH WILL REQUIRE SOIL EROSION AND SEDIMENT CONTROL INSTALLATIONS NEEDED TO PROVIDE THE REQUIRED EROSION AND TURBIDITY CONTROL, OTHER THAN THOSE SHOWN.
- ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER OR A TEMPORARY SEDIMENTATION BASIN PRIOR TO OFF-SITE DISCHARGE.
- ALL SOIL EROSION AND SEDIMENT CONTROL INSTALLATIONS SHALL BE LEFT IN PLACE AND MAINTAINED, INCLUDING SILT AND SEDIMENT REMOVAL, UNTIL CONSTRUCTION IS COMPLETED, THE AREA IS RESTORED AND THE PROPOSED WORK IS ACCEPTED.
- AT THE TIME WHEN THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER, SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
- UPON COMPLETION OF CONSTRUCTION WORK AND AFTER FINAL GRADING AND WHEN PERMANENT STABILIZATION HAS BEEN ESTABLISHED, ALL BALES, SILT FENCES AND OTHER EROSION CONTROL INSTALLATIONS WILL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.



**EROSION CONTROL PLAN**

SCALE: 1" = 80'

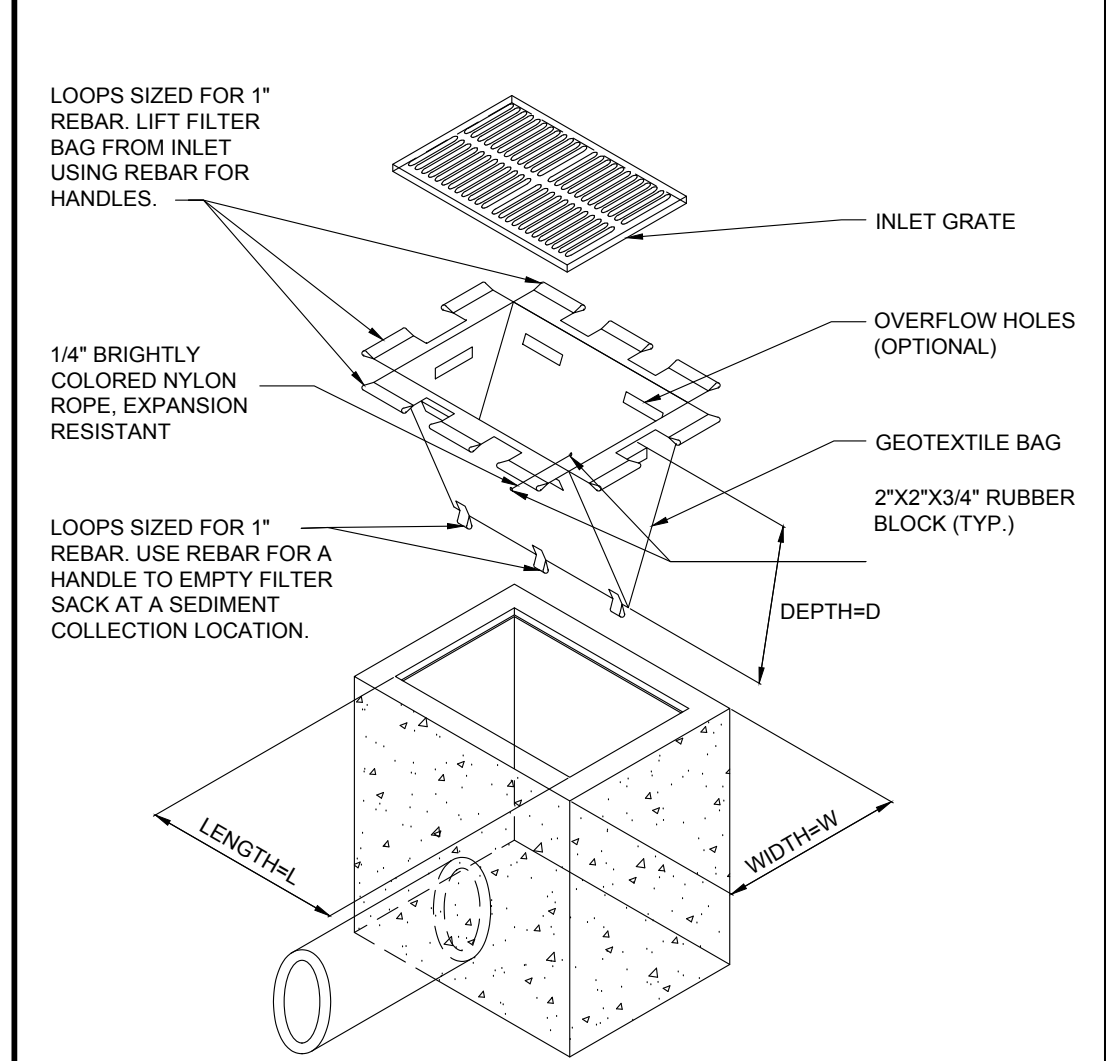


**TYPE I FLOATING TURBIDITY BARRIER**

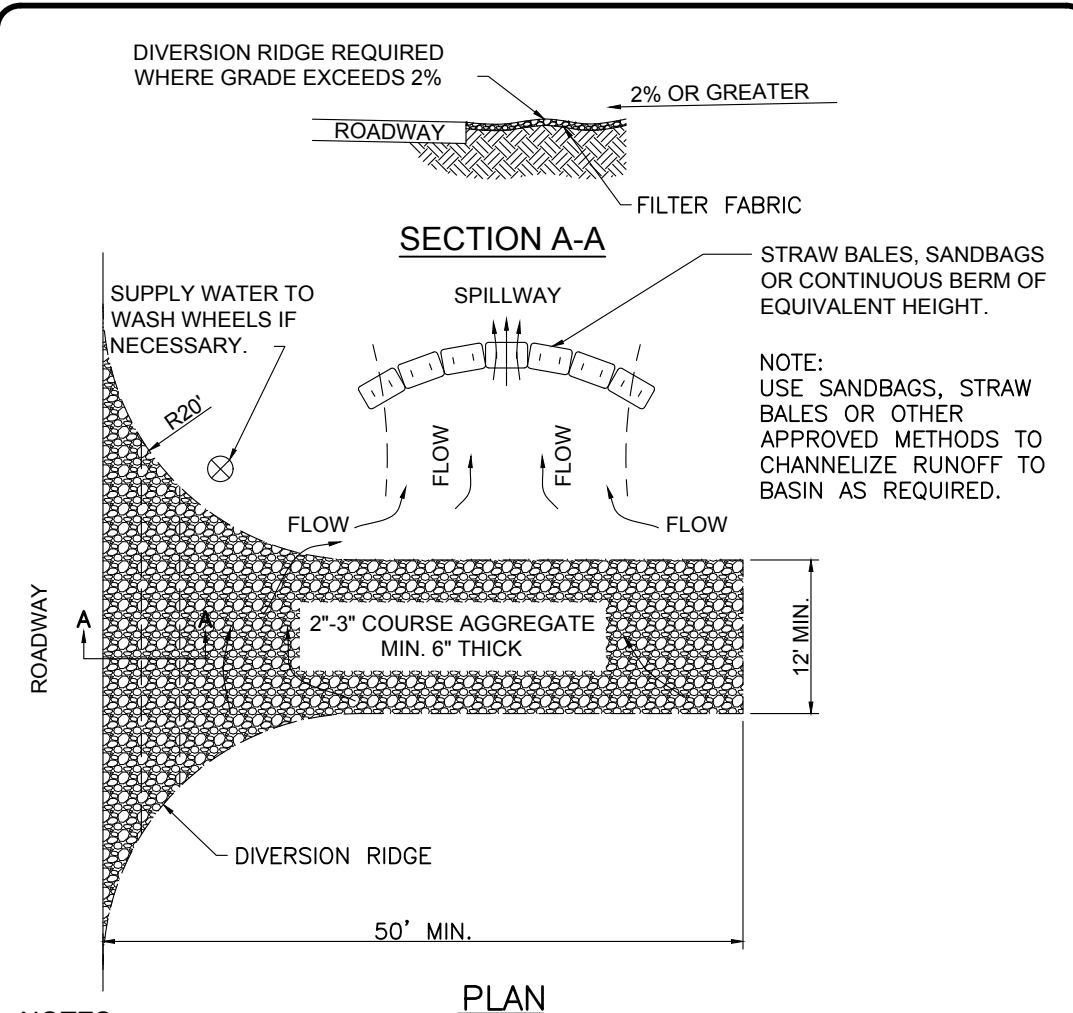
D1 = 5' STD. (SINGLE PANEL FOR DEPTH 5' OR LESS).  
 D2 = 5' STD. (ADDITIONAL PANEL FOR DEPTHS >5'). CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET. TWO (2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

NOTICE: COMPONENTS OF TYPE I 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 TYPE I SHALL BE AS APPROVED BY THE ENGINEER.

NOTES:  
 1. TURBIDITY BARRIERS ARE TO BE USED IN ALL PERMANENT BODIES OF WATER REGARDLESS OF WATER DEPTH. NUMBER AND SPACING OF ANCHORS DEPENDENT ON WATER VELOCITIES.

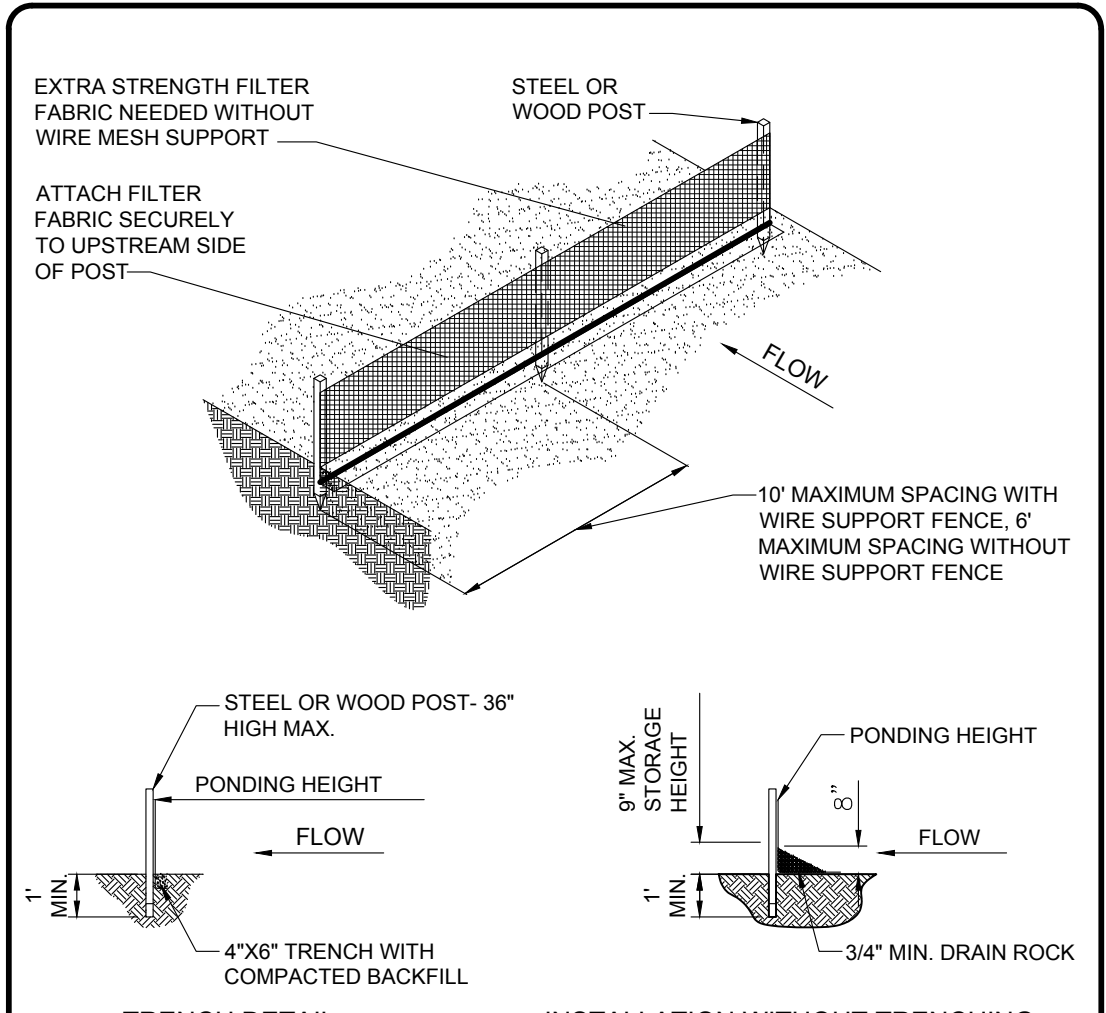


**FILTER SACKS FOR GRATED INLETS AND STABILIZED ROADWAYS (N.T.S.)**



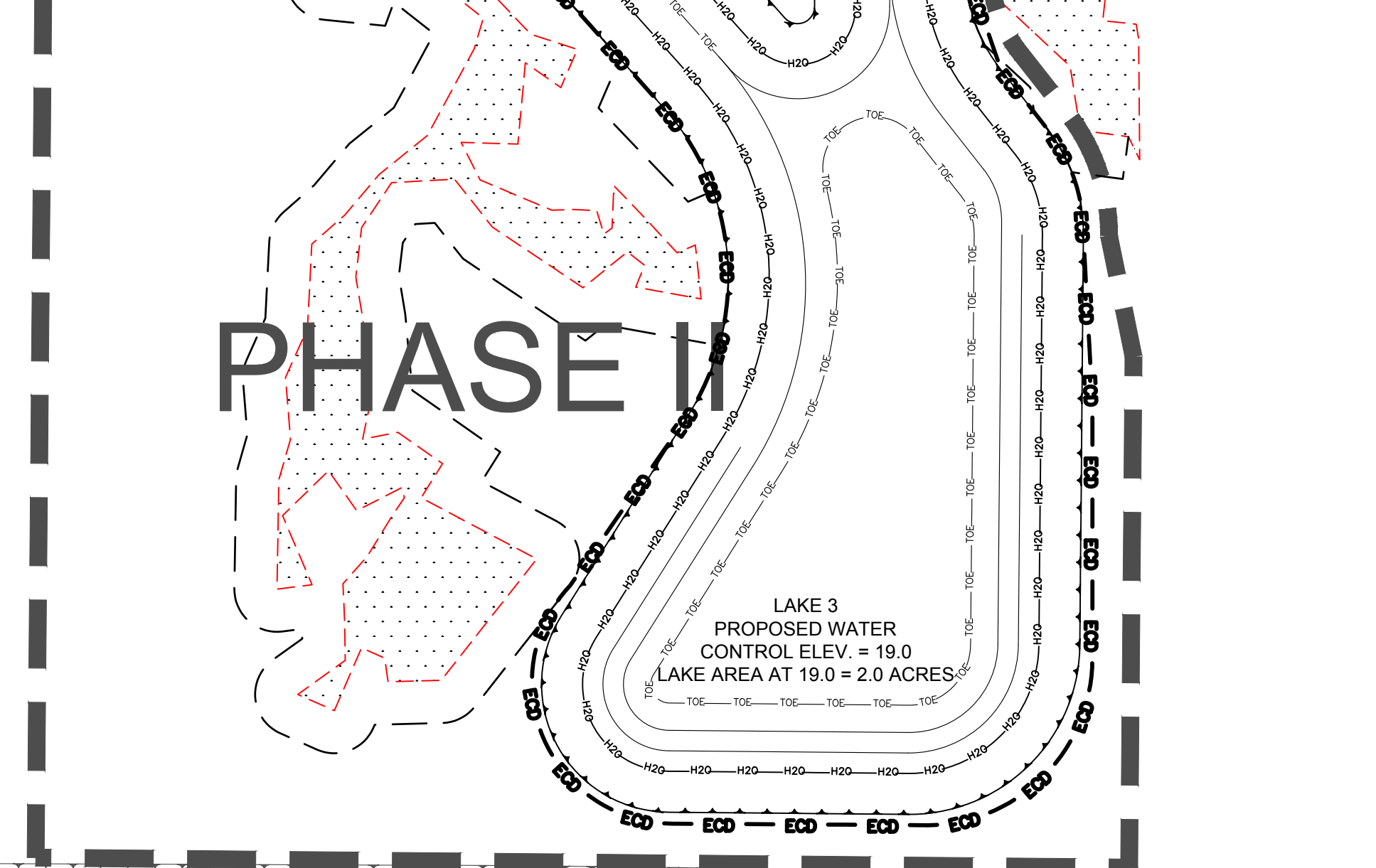
**TEMPORARY GRAVEL CONSTRUCTION ENTRANCE / EXIT (N.T.S.)**

- NOTES:
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.
  - WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
  - WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.



**TYPE IV SILT FENCE (N.T.S.)**

- NOTES:
- SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
  - INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" MAXIMUM RECOMMENDED STORAGE HEIGHT.
  - REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.



**EROSION CONTROL PLAN**

NO.	REVISION	BY	DATE
1	Revised silt fence location per SJRWMD staff comments	TNS	08/16/18

**City of Fellsmere**  
 22 S. Orange Street  
 Fellsmere, Florida 32948

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CLINTON J. RAHJES, P.E.  
 FLORIDA LICENSE NO. 70170  
 CARTER ASSOCIATES, INC.

SIGNATURE DATE  
 COA 205 / LB 205

DATE : 10/5/18  
 PROJ. # : 14-97E  
 DRAWN BY: TNS  
 APPD BY: CJR  
 PLOT BY : George Alexander Simons  
 FILE NAME : 14-97 E Redesign.dwg  
 REF. # :  
 F.B. & PG. :

**South Regional Lake**

**Erosion Control Plan and Details**

**SHEET**  
**C-7**  
 Dwg. #: