

BIOSOLIDS REMOVAL REQUIREMENTS:

APPLICABLE REGULATIONS:

ALL OF THE WORK REFORMED BY CONTRACTOR SHALL COMPLY WITH APPLICABLE LAWS, RULES, REGULATIONS, AND CODES OF UNITED STATES AND THE STATE OF COLORADO AND WITH THE ORDINANCES, RULES AND REGULATIONS. REGULATORY AGENCIES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

1. U.S. – ENVIRONMENTAL PROTECTION AGENCY (EPA)
2. STATE OF COLORADO – DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT (CDPHE)
3. OCCUPATIONAL SAFETY AND HEALTH AGENCY (OSHA)
4. EL PASO COUNTY

BIOSOLIDS DISPOSAL REQUIREMENTS:

CONTRACTOR TO REMOVE ALL FLUID FROM PONDS AND LEGALLY DISPOSE OF LIQUID BY PROCESSING IT THROUGH THE PROPOSED WASTEWATER TREATMENT PLANT. THE REMAINING BIOSOLIDS SHALL BE DEWATERED ON SITE OR HAULED OFFSITE BY THE CONTRACTOR. IF LIQUID IS HAULED OFFSITE, ONE CUBIC YARD IS EQUAL TO 202 GALLONS. BIOSOLIDS CAKE TO BE HAULED OFFSITE. **ESTIMATED VOLUME OF BIOSOLIDS IS 3000 CUBIC YARDS.** PRIOR TO COMPLETION, CONTRACTOR TO PROVIDE OWNER RECORDS OF ALL THE PERMITS, TESTING RESULTS, AND CONSTRUCTION LOGS. CONTRACTOR TO CERTIFY THAT PROJECT WAS COMPLETED AS SPECIFIED AND CONFORMS TO APPLICABLE LAWS, RULES, AND REGULATIONS.

SOLID WASTE MANAGEMENT AND DISPOSAL:

WASTE MATERIALS AT A DECOMMISSIONED WWTP (E.G., CONCRETE, SITE PIPING, ETC.) MUST BE PROPERLY MANAGED IN ACCORDANCE WITH REGULATIONS PERTAINING TO THE SOLID WASTE SITES AND FACILITIES 6 CCR 1007-2 (SOLID WASTE REGULATIONS) AND THE SOLID WASTES DISPOSAL SITES AND FACILITIES ACT, TITLE 30, ARTICLE 20, PART 1, COLORADO REVISED STATUTES (CRS), AS AMENDED.

SEQUENCING OF WORK:

STEP I
CONTRACTOR TO REMOVE ALL FLUID FROM PONDS AND LEGALLY DISPOSE OF LIQUID BY PROCESSING IT THROUGH THE PROPOSED WASTEWATER TREATMENT PLANT. CONTRACTOR IS RESPONSIBLE FOR SETTING UP THE DEWATERING PUMPS AND PUMPING THE WATER BACK UP INTO THE PROPOSED TREATMENT PLANT AS PART OF STARTUP.

ONCE DRY, BIOSOLIDS SHALL BE LEFT IN PLACE TO FREEZE OVER THE COURSE OF ONE WINTER SEASON. VOLUME OF BIOSOLIDS ON SITE IS ESIMATED AT 3000 CUBIC YARDS, BUT OWNER MAKES NO GUARANTEE OF VOLUMES.

STEP II
CONTRACTOR SHALL BEFIN THE PROCESS OF PERMITTING THE LAND APPLICATION SITE CONSISTING OF THE AREA SHOWN ON THIS DRAWING.

STEP III
ONCE THE BIOSOLIDS ARE DRIED, THEY SHALL BE EXCAVATED FROM PONDS #1 AND #2 AND STOCKPILED ON SITE, CONTRACTOR SHALL TEST THE BOTTOMS OF THE LAGOONS ONCE BIOSOLIDS ARE REMOVED. ONLY THEN THE TWO PROPOSED 6" PVC LOW FLOW DRAIN PIPES SHALL BE INSTALLED WITH CAPS ON AND THE CAPS SHALL NOT BE PULLED OFF UNTIL PONDS ARE COMPLETELY REVEGETATED.

STEP IV
CONTRACTOR SHALL GRADE THE LAND APPLICATION SITE AS SHOWN IN THE CIVIL DRAWINGS. POND LINERS SHALL BE SCARIFIED AND DEMOLISHED IN PLACE. ALL EXISTING PIPES AND CONCRETE STRUCTURES WITHING THE LAND APPLICATION SITE SHALL BE REMOVED AND DISPOSED OFF.

STEP V
CONTRACTOR TO REFORM AND PAY FOR ALL TESTING REQUIRED TO DEMONSTARTE BIOSOLIDS MEET CLASS A REQUIREMENTS. CONTRACTOR SHALL OBTAIN ALL PERMIT(S) TO LAND APPLY BIOSOLIDS. ALL BIOSOLIDS SHALL BE SCREENED PRIOR TO LAND APPLICATION SO NO TRASH OR PLASTICS ARE APPLIED TO THE PROPERTY. CONTRACTOR SHALL LANDFILL THE SCREENED TRASH.

STEP VI
ONCE THE BIOSOLIDS ARE SCREENED AND THE PERMITS ARE APPROVED, CONTRACTOR SHALL LAND APPLY BIOSOLIDS OVER THE GRADED LAND APPLICATION SITE. CONTRACTOR SHALL APPLY REVEGETATION MEASURES ON TOP OF THE BIOSOLIDS AS CALLED FOR IN THE LAGOON RESTORATION PLAN. THIS DRAWING IS RELEASED FOR CONSTRUCTION

STEP VII
PRIOR TO COMPLETION, CONTRACTOR TO PROVIDE OWNER RECORDS OF ALL THE PERMITS, TESTING RESULTS, AND CONSTRUCTION LOGS. CONTRACTOR TO CERTIFY THAT PROJECT WAS COMPLETED AS SPECIFIED AND CONFORMS TO APPLICABLE LAWS, RULES, AND REGULATIONS.

NOTE:
(PONDS SHALL DRAIN 72 HOURS AND NO LONGER HOLD WATER. CONTRACTOR TO RE-SEED POND AFTER DECOMMISSIONING IS COMPLETE.)

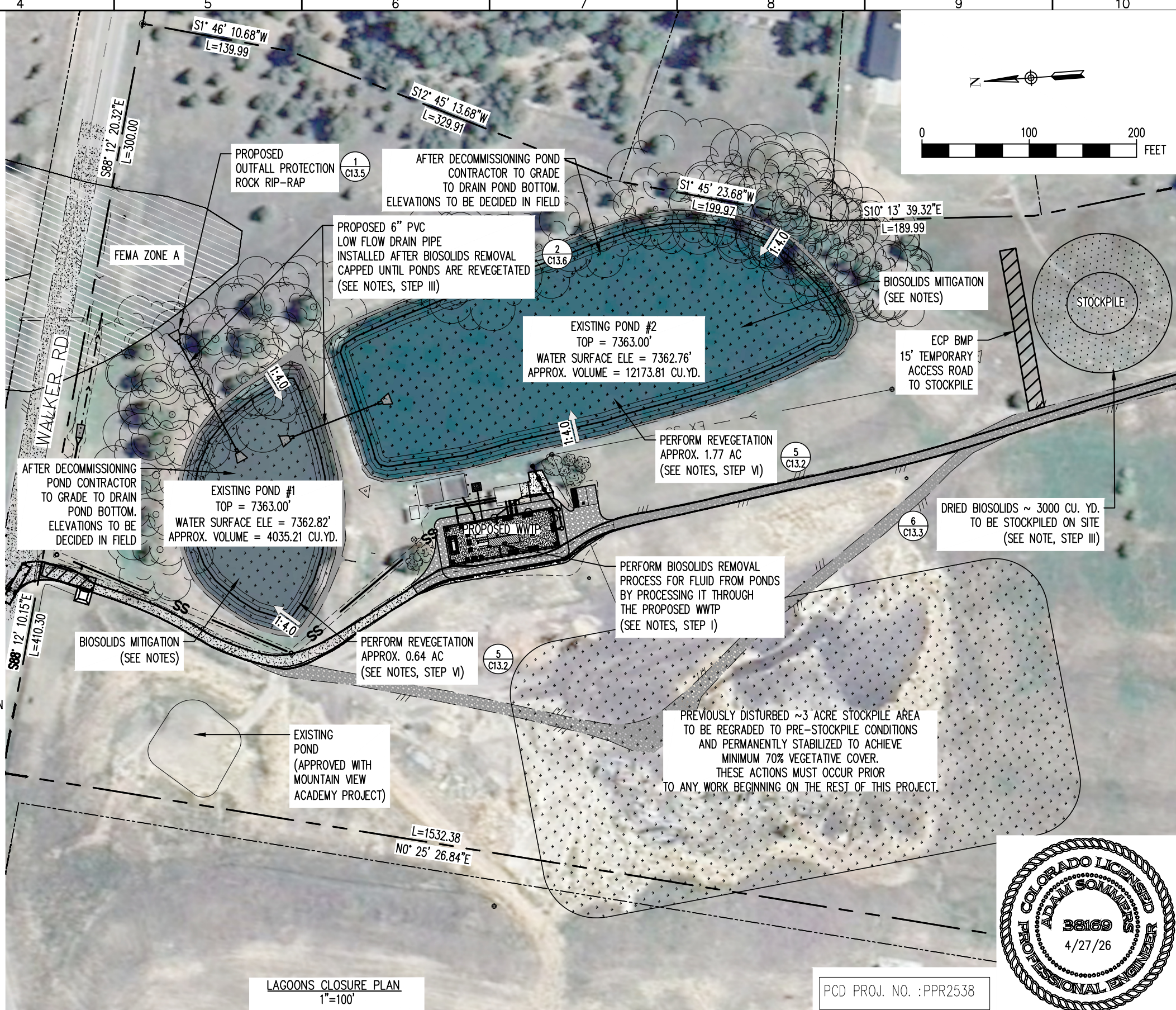
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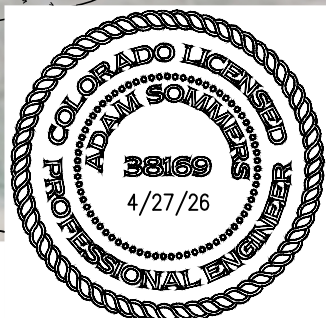
PROJECT: WALDEN CORPORATION WWTP
 3155 WALKER ROAD COLORADO SPRINGS
 EL PASO COUNTY, COLORADO
 ENGINEER: AQUAWORKS DBO, INC.
 3252 WILLIAMS STREET
 DENVER, COLORADO 80205
 (303) 477-5915

SHEET TITLE:
LAGOONS CLOSURE PLAN
 PROJECT NUMBER: #3774
 SCALE: 1"=100'
 SHEET: C11



LAGOONS CLOSURE PLAN
1"=100'

PCD PROJ. NO.: PPR2538



GRADING NOTES:

1. TOPSOIL WITHIN THE DESIGNATED PROJECT LIMITS OF DISTURBANCE SHALL BE SALVAGED PRIOR TO BEGINNING OF HAULING, EXCAVATING, OR FILL OPERATIONS.
 2. TOPSOIL SHALL BE REPLACED TO DISTURBED AREAS AND SHALL BE PLACED DIRECTLY UPON COMPLETED CUT AND FILL SLOPES WHENEVER CONDITIONS AND THE PROGRESS OF CONSTRUCTION PERMIT.
 3. CONTRACTOR TO INSTALL FINISH GRADE ACCORDING TO PLAN GRADES, SLOPES, SPOTS, NOTES AND SPECIFICATIONS. PROVIDE A SMOOTH FINISH BY RAKING IN TOPSOILED AREAS. PROVIDE SMOOTH TRANSITIONS AT TOP OF BANKS AND TOE OF SLOPES.
 4. ALL EXCAVATIONS AND EMBANKMENTS SHALL BE FINISHED TO SMOOTH AND UNIFORM SURFACES CONFORMING WITH PLANS AND TYPICAL SECTIONS DETAILED AND SPECIFIED HERE.
 5. WHEN EMBANKMENT IS PLACED ON BOTH SIDES OF A CONCRETE WALL OR BOX TYPE STRUCTURE, THE EMBANKMENT SHALL BE BROUGHT UP EQUALLY ON BOTH SIDES OF THE STRUCTURE UNLESS NOTED OTHERWISE ON THE PLANS.
 6. EMBANKMENT SHALL BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED 8 INCHES LOOSE MEASUREMENT AND SHALL BE COMPACTED AS SPECIFIED BEFORE THE NEXT LAYER IS PLACED.
 7. SURFACE WATER SHALL NOT BE ALLOWED TO POND ANYWHERE AND SHALL DRAIN AWAY FROM BUILDINGS AT ALL TIMES. ALL DRAINAGE IS SHOWN DRAINING AWAY FROM BUILDINGS ON THESE PLANS.
- THIS AREA IS WITHIN ZONE OF THE EL PASO FIRM PANEL NUMBER 08041C0285G, EFFECTIVE DATE 12/7/2018. NO PROPOSED CHANGE IN NET FILL ON THIS SITE IS PROPOSED.

NOTES:

INFORMATION SHOWN ON THIS SHEET WAS OBTAINED FROM:

RAMPART SURVEYS LLC, TOPOGRAPHIC MAP – WALDEN WASTEWATER TREATMENT FACILITY NE1/4 SEC. 15, T11S, R66W OF THE 6TH P.M., EL PASO COUNTY. CO. JOB NO. : 19249 AUGUST 19. 2019.

RESTORATION SEEDING SPECIFICATIONS:

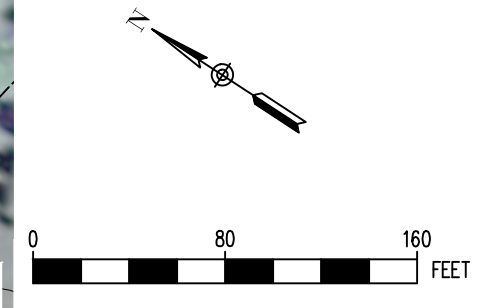
REFER TO PROJECT SPECIFICATION MANUAL SECTION 32 92 00 FOR THE FOLLOWING ITEMS:

1. SOIL ANALYSIS
2. SEED AND MULCH SUBMITTALS
3. SITE PREPARATION AND PROTECTION
4. SOIL PREPARATION
5. SEEDING AND MULCHING
6. WARRANTY AND CONDITIONS

NOTE:

AFTER BIOSOLIDS ARE EXCAVATED FROM PONDS #1 AND #2 AND STOCKPILED ON SITE, THE TWO PROPOSED 6" PVC LOW FLOW DRAIN PIPES SHALL BE INSTALLED WITH CAPS ON AND NOT BE PULLED OFF UNTIL PONDS ARE COMPLETELY REVEGETATED.

CONTRACTOR SHALL APPLY REVEGETATION MEASURES ON TOP OF THE BIOSOLIDS AS CALLED FOR IN THE LAGOON RESTORATION PLAN SHEET C11.



PREVIOUSLY DISTURBED ~3 ACRE STOCKPILE AREA REGRADED TO PRE-STOCKPILE CONDITIONS AND PERMANENTLY STABILIZED TO ACHIEVE MINIMUM 70% VEGETATIVE COVER. THESE ACTIONS MUST OCCUR PRIOR TO ANY WORK BEGINNING ON THE REST OF THIS PROJECT.

LAGOON DECOMMISSIONING, GRADING AND RESTORATION
1" = 80'

PCD PROJ. NO. : PPR2538

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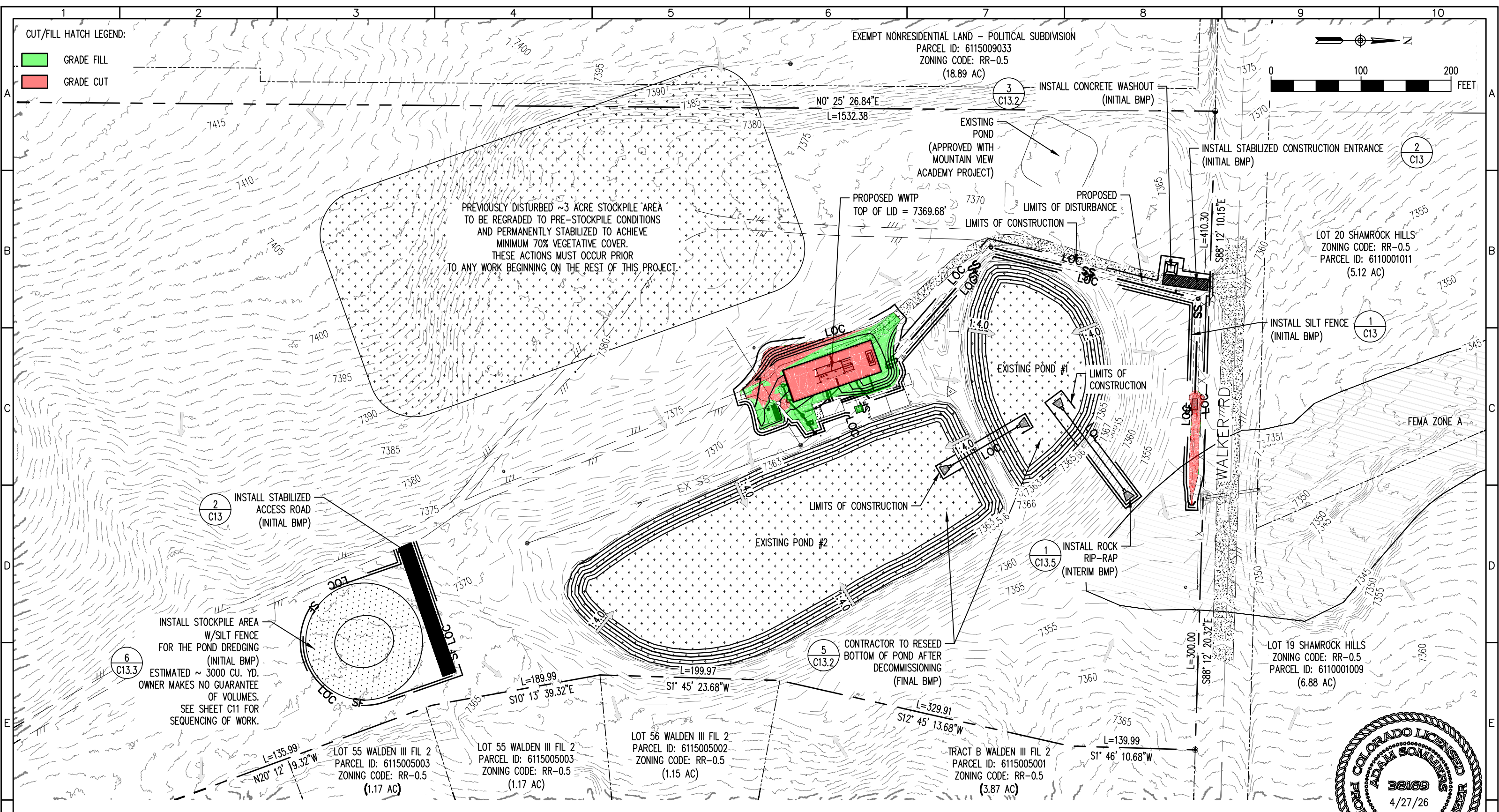
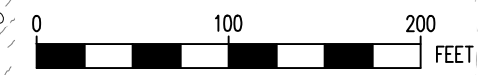
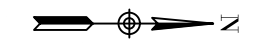


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SHEET TITLE:
LAGOON DECOMMISSIONING, GRADING AND RESTORATION
 PROJECT NUMBER: #3774
 SCALE: 1" = 80'
 SHEET: C12

CUT/FILL HATCH LEGEND:

- GRADE FILL
- GRADE CUT




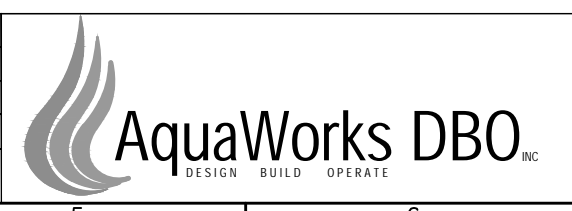
EROSION CONTROL PLAN I
 1:100

PCD PROJ. NO. : PPR2538



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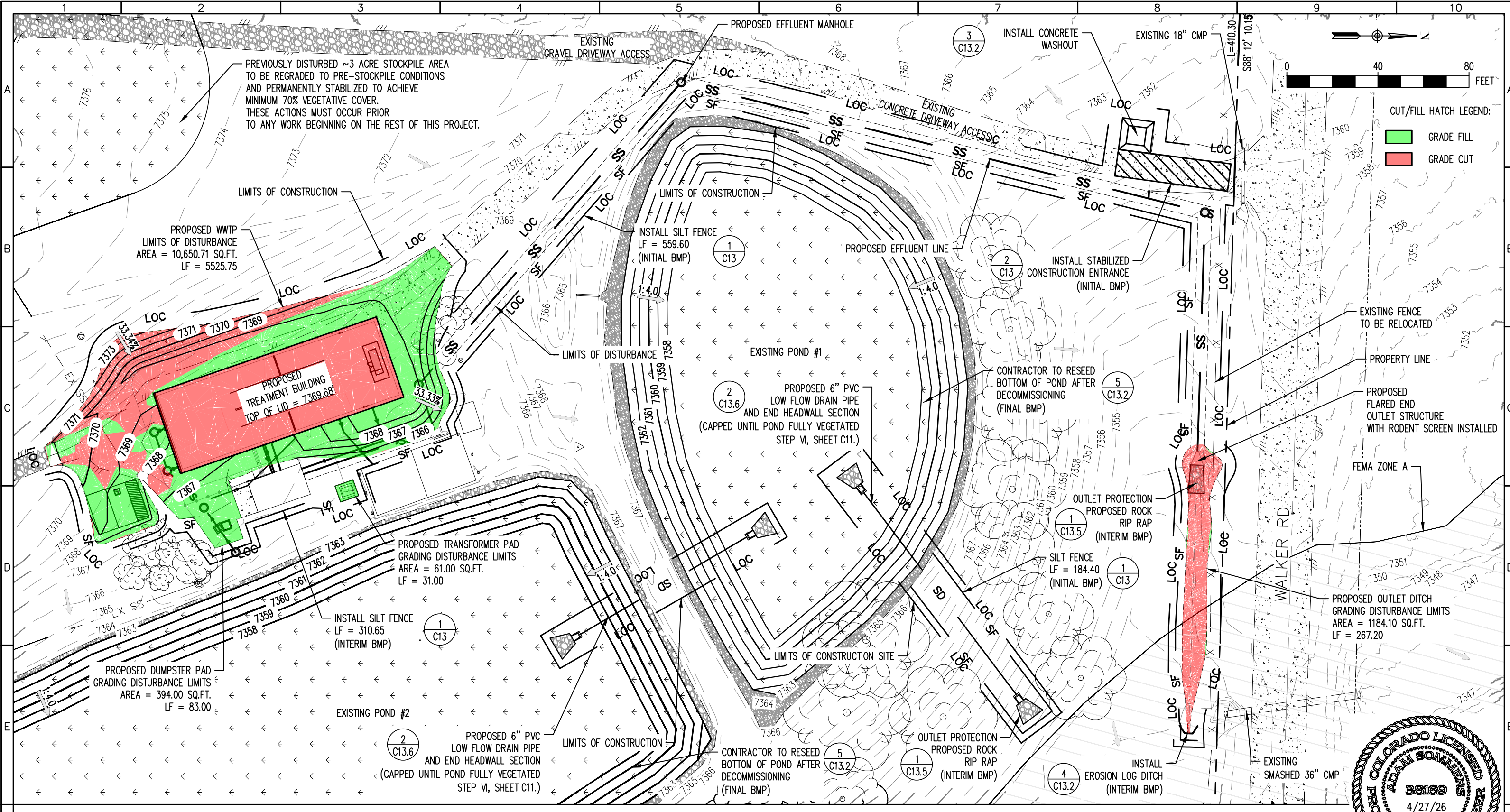
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SHEET TITLE: EROSION CONTROL PLAN I		
PROJECT NUMBER: #3774	SCALE: 1:100	SHEET: C7.1

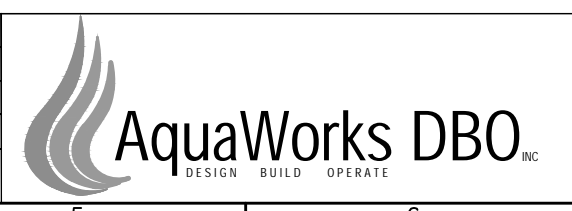


EROSION CONTROL PLAN II
1"=40'

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SHEET TITLE: EROSION CONTROL PLAN II		
PROJECT NUMBER: #3774	SCALE: 1"=40'	SHEET: C7.2