



Contract Drawings For

100% REMEDIAL DESIGN FOR FORMER AIR FORCE PLANT NO. 51

NYSDEC SITE NO. 828156


GREECE, MONROE COUNTY, NEW YORK

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APRIL 2016

	04/29/2016
SIGNATURE	DATE
WARNING: It is a violation of the New York State Education Law for any person unless acting under the direction of a licensed professional engineer, to alter any item on these plans in any way. If alterations to these plans are made, the alterations shall be made in accordance with 145-subsection 7209 of the New York State Education Law.	

1	2	3	4	5	6	7	8
GENERAL NOTES:		EXCAVATION NOTES:		EROSION AND SEDIMENT CONTROL NOTES		C. MAINTENANCE OF EROSION CONTROL DEVICES (CONTINUED)	
1. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES AND REGULATIONS.		1. EXCAVATION EQUIPMENT AND WORK SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL CODES AND REGULATIONS INCLUDING BUT NOT LIMITED TO OSHA 29 CFR 1926, SUBPARTS M, O, AND P.		1. FULL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INCORPORATED INTO THE PROJECT CONSTRUCTION. THESE PRACTICES WILL BE IN ACCORDANCE WITH THOSE SET FORTH IN THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PUBLICATION ENTITLED "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL".		g. TREE PROTECTION FENCING TO BE INSPECTED DAILY DURING GRADING AND FINISH GRADING OPERATIONS. h. DAILY WATER SPRAYS WILL BE USED AS NEEDED OR AS DIRECTED BY THE ENGINEER. WATER SPRAYS WILL BE USED TO PREVENT POLLUTION FROM DUST UNTIL CONSTRUCTION IS COMPLETED AND SOIL COVER IS ESTABLISHED.	
2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS BEFORE BEGINNING WORK.		2. THE CONTRACTOR SHALL PERFORM THE EXCAVATIONS AT THE MINIMUM DEPTHS SHOWN ON THE PLANS. THE EXCAVATION LIMITS SHOWN MAY BE ENLARGED BASED ON THE RESULTS OF THE CONFIRMATION SAMPLE RESULTS. ALL EXCAVATIONS BEYOND THE DEPTHS OR LIMITS SHOWN SHALL BE PREVIOUSLY APPROVED BY THE ENGINEER PRIOR TO COMMENCING. SIDEWALL END POINT SAMPLING SHALL BE AT DISCRETION OF ENGINEER. BOTTOM END POINT SAMPLING IN ACCORDANCE WITH DER-10.		A. EROSION CONTROL MEASURES		D. REMOVAL OF EROSION CONTROL DEVICES	
3. SITE IS LOCATED AT 4777 DEWEY AVENUE, TOWN OF GREECE, MONROE COUNTY, NY. THE SITE IS A 33.6 ACRE PROPERTY. THE SITE NUMBER IS 828156.		3. ESTIMATED VOLUME OF SOIL TO BE REMOVED IS NOT NECESSARILY EQUAL TO THE ACTUAL VOLUME THAT WILL BE REMOVED. THE CONTRACTOR SHALL SLOPE AND/OR SHORE EXCAVATIONS TO PROTECT EXISTING STRUCTURES AND UTILITIES THAT ARE TO REMAIN.		THE FOLLOWING EROSION CONTROL MEASURES WILL BE INCORPORATED TO MINIMIZE EROSION POTENTIAL:		NO EROSION CONTROL STRUCTURES SHALL BE REMOVED UNTIL ALL WORK UPSTREAM HAS BEEN COMPLETED, STABILIZED, AND APPROVED BY THE ENGINEER.	
4. THE ENTIRE PARCEL IS CURRENTLY OWNED BY 4800 DEWEY. NYSDEC WILL BE RESPONSIBLE FOR OBTAINING ALL ACCESS AGREEMENTS NECESSARY TO COMPLETE THE WORK SHOWN ON THE DRAWINGS AND SPECIFICATIONS.		4. THE USE OF TRENCH BOXES DOES NOT REQUIRE CONTRACTOR TO PROCURE A STRUCTURAL ENGINEER. REFER SPECIFICATION SECTION 02073 FOR EXCAVATIONS.		1. FILTER FABRIC SILT FENCE SILT FENCE SHALL BE USED TO CONTROL EROSION FROM SHEET FLOW ON SLOPES NOT TO EXCEED TWO HORIZONTAL TO ONE VERTICAL. CONCENTRATED FLOW SHALL NOT BE DIRECTED TOWARD SILT FENCE AND SPACING SHALL VARY FROM 50' TO 200' DEPENDING ON SLOPE STEEPNESS.		1. THE REMOVAL OF EROSION CONTROL DEVICES SHOULD GENERALLY BE AS FOLLOWS:	
5. ALL SITE FEATURES SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.		5. PROVIDE BARRICADES, COVERINGS, OR OTHER TYPES OF PROTECTION NECESSARY TO PREVENT DAMAGE TO EXISTING STRUCTURES AND UTILITIES TO REMAIN IN PLACE.		2. PERMANENT AND TEMPORARY SEEDING MIXTURES PERMANENT EROSION CONTROL MEASURES INCLUDE INSTALLATION OF JUTE MESH EROSION CONTROL SEED MATTING ON ALL SLOPES 2:1 OR GREATER. PERMANENT AND TEMPORARY SEEDING, MULCH, FERTILIZER, SOIL AMENDMENTS, AND SLOPE STABILIZATION WILL BE USED ON SEEDED AREAS. LAND THAT IS STRIPPED OF VEGETATION WILL BE LEFT BARE FOR THE SHORTEST TIME POSSIBLE. ANY AREA THAT WILL REMAIN CLEARED, BUT NOT UNDER CONSTRUCTION FOR 24 DAYS OR LONGER, WILL BE STABILIZED WITH TEMPORARY SEED AND MULCH WITHIN 14 DAYS OF LAST DISTURBANCE.		a. AFTER CONSTRUCTION, THE TEMPORARY EROSION CONTROL STRUCTURES ARE TO BE REMOVED IN REVERSE ORDER WITH THE MOST UPSTREAM STRUCTURE REMOVED FIRST AND THENCE PROCEEDING DOWNSTREAM.	
6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE A GEOPHYSICAL SURVEY COMPLETED TO LOCATE ALL EXISTING ABOVEGROUND AND UNDERGROUND UTILITIES AND STRUCTURES WHETHER SHOWN ON THIS PLAN OR NOT, AND TO PROTECT THEM FROM DAMAGE. INACTIVE OR ABANDONED UTILITIES SHALL BE CAPPED IN ACCORDANCE WITH LOCAL CODES. REMOVE INACTIVE SERVICES AS REQUIRED TO MAINTAIN OPERATION. FOR ASSISTANCE IN LOCATING UNDERGROUND UTILITIES CALL UFPO AT 1-800-962-7962 OR 811.		6. COORDINATES PROVIDED FOR STAKE OUT ARE BASED ON STATE PLANE DATUM AND ARE ESTIMATED TO THE NEAREST HUNDREDTH OF A FOOT +/-.		3. SLOPE STABILIZATION ALL SLOPES SHALL BE STABILIZED TO MINIMIZE EROSION. SLOPES SHALL BE STABILIZED WITH TEMPORARY SEEDING MIXTURES AND STRAW MULCH. SLOPES IN EXCESS OF TWO HORIZONTAL TO ONE VERTICAL SHALL BE STABILIZED WITH JUTE NETTING AND HYDRO-SEED. EXISTING VEGETATION, WHICH IS NOT TO BE REMOVED, WILL ALSO ACT AS FILTER STRIPS TO PROTECT DOWN SLOPE AREAS. RUNOFF WILL BE DIRECTED FROM NEWLY GRADED AREAS TO PREVENT EROSION UNTIL A PERMANENT GROUND COVER HAS BEEN ESTABLISHED.		b. ALL TREE PROTECTION FENCING SHALL BE REMOVED AFTER ADJACENT AREAS HAVE BEEN GRADED, TOP SOILED, SEEDED, AND VEGETATION HAS BEEN ESTABLISHED.	
7. IN THE EVENT THE CONTRACTOR DAMAGES ANY EXISTING UTILITY SERVICE CAUSING SERVICE INTERRUPTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY NYSDEC OR THE ENGINEER. ANY DAMAGE TO UTILITIES WILL BE REPAIRED/REPLACED AT THE CONTRACTOR'S OWN EXPENSE.		7. CONTRACTORS MUST PROVIDE LADDERS, STAIRWAYS, RAMPS, OR OTHER SAFE MEANS OF EGRESS IN ALL EXCAVATIONS THAT ARE FOUR FEET DEEP OR MORE SO THAT A WORKER DOES NOT NEED TO TRAVEL MORE THAN 25 FEET IN ANY DIRECTION BEFORE BEING ABLE TO EXIT THE EXCAVATION.		4. DUST CONTROL MEASURES FOR DUST CONTROL DURING CONSTRUCTION SHALL BE IMPLEMENTED AS NEEDED (DAILY WATER SPRAYS WILL BE USED DURING DRY CONDITIONS). IN ADDITION TO WATER SPRAYS, TEMPORARY PLANTINGS WILL AID IN MINIMIZING DUST.		c. ANY WASHOUTS SHALL BE RE-TOPSOILED AND SEEDED.	
8. THE CONTRACTOR SHALL TAKE CARE WHEN WORKING IN THE VICINITY OF OVERHEAD POWER LINES.		8. DIRT, DEBRIS, AND OTHER MATERIAL MUST BE EFFECTIVELY STORED AND RETAINED AT LEAST TWO FEET FROM THE EDGE OF EXCAVATIONS THAT PERSONNEL MAY BE REQUIRED TO ENTER.		5. STABILIZED CONSTRUCTION ENTRANCE TOWN, COUNTY AND STATE ROADWAYS WILL BE PROTECTED BY INSTALLATION OF CRUSHED STONE BLANKET FOR CLEANING CONSTRUCTION VEHICLE WHEELS. BLANKETS SHALL BE PLACED AT ANY INTERSECTION OF A CONSTRUCTION ROAD WITH A PAVED OR PUBLICLY OWNED ROAD. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED IN THE LOCATION AND BE OF SIZE AND TYPE SPECIFIED.		SPECIFICATIONS FOR SEEDING, MULCHING, AND NETTING	
9. PROVISIONS SHALL BE MADE TO MINIMIZE THE SPREAD OF DEBRIS, DIRT, AND DUST.		9. EXISTING MONITORING WELLS WITHIN THE EXCAVATION LIMIT SHALL BE PULLED IN PLACE PER NYSDEC CP-43.		6. TREE PROTECTION TREES TO BE PRESERVED WITHIN AREAS OF CONSTRUCTION SHALL BE PROTECTED. IN AREAS OF CONCENTRATED CONSTRUCTION ACTIVITY TEMPORARY FENCING WILL BE PLACED AROUND THE DRIP LINES. IN ALL OTHER AREAS, CONSTRUCTION WORKERS WILL BE DIRECTED TO AVOID THE STORING OF EQUIPMENT OR SOIL UNDER TREES TO BE PRESERVED, IN ORDER TO PREVENT SOIL COMPACTION.		STABILIZATION SHALL BE DONE ACCORDING TO THE APPROPRIATE STANDARDS AND SPECIFICATIONS FOR CRITICAL AREA SEEDING, MULCHING AND NETTING. (NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL)	
10. PROVISIONS SHALL BE TAKEN TO MINIMIZE NOISE. CONSTRUCTION ACTIVITIES ARE NOT PERMITTED BETWEEN THE HOURS OF 10PM TO 7AM.		10. ALL EXISTING VEGETATION AND STRUCTURES WITHIN THE EXCAVATION LIMIT SHALL BE REMOVED UNLESS NOTED TO REMAIN. THE CONTRACTOR SHALL DISPOSE OF THESE MATERIALS IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL LAWS.		7. INSPECTION THE GENERAL CONTRACTOR WILL CONDUCT WEEKLY INSPECTIONS OF THE EROSION CONTROL MEASURES.		LEGEND:	
11. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING UNAUTHORIZED PERSONS DO NOT ENTER THE EXCLUSION ZONE. SNOW FENCE OR OTHER ACCEPTABLE MEANS SHALL BE PROVIDED AROUND THE HAZARDOUS WORK ZONE TO RESTRICT ACCESS. WARNING SIGNS SHALL BE POSTED AS REQUIRED BY SPECIFICATION SECTION 02073 SPEC 00003 - SOIL EXCAVATION, DEMOLITION AND REMOVAL.		LAND GRADING NOTES:		B. EROSION CONTROL SEQUENCE		1. CATCH BASIN MANHOLE	
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY OF THE SITE. ANY REPAIRS RESULTING FROM DAMAGE CAUSED BY TRESPASSERS SHALL BE AT THE EXPENSE OF THE CONTRACTOR. MINIMUM SECURITY MEASURES SHALL BE AS REQUIRED BY THE CONTRACT SPECIFICATIONS.		1. PROVISIONS SHALL BE MADE TO SAFELY CONDUCT SURFACE RUNOFF AWAY FROM EXPOSED AREAS AND OPEN EXCAVATIONS. RUNOFF THAT COMES IN CONTACT WITH IMPACTED SOILS SHALL BE COLLECTED AND PROPERLY DISPOSE OFFSITE IN ACCORDANCE WITH ALL REGULATIONS.		THE INSTALLATION OF EROSION CONTROL MEASURES SHOULD BEGIN WITH THE MOST DOWNSTREAM DEVICE, THEN WORKING UPSTREAM. WHEN INSTALLING EROSION CONTROL MEASURES, THE SEQUENCE SHOULD GENERALLY BE AS FOLLOWS:		2. MONITORING WELL	
13. CONSTRUCTION WATER COLLECTED FROM DECONTAMINATING OR DEWATERING ACTIVITIES SHALL BE COLLECTED IN TEMPORARY STORAGE TANKS FOR TREATMENT OR DISPOSAL OFF SITE AS SPECIFIED IN THE CONTRACT SPECIFICATIONS. DEWATERING IS CURRENTLY NOT ANTICIPATED. HOWEVER, IT HAS BEEN INCLUDED AS A CONTINGENCY, AS NECESSARY.		2. ALL GRADED OR DISTURBED AREAS, INCLUDING SLOPES, SHALL BE PROPERLY PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL PLAN UNTIL THEY ARE ADEQUATELY STABILIZED.		C. MAINTENANCE OF EROSION CONTROL DEVICES		3. SANITARY MANHOLE	
14. ALL AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO THEIR ORIGINAL CONDITIONS OR AS OTHERWISE REQUIRED IN THE CONTRACT DOCUMENTS AND TO THE SATISFACTION OF THE ENGINEER.		3. ALL EROSION AND SEDIMENT CONTROL PRACTICES AND MEASURES SHALL BE CONSTRUCTED, APPLIED, AND MAINTAINED IN ACCORDANCE WITH THE SEDIMENT CONTROL PLAN AND THE "NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL".		ALL EROSION CONTROL DEVICES WILL BE MONITORED, CLEANED, AND RESTORED THROUGHOUT CONSTRUCTION TO MAINTAIN THEIR EFFECTIVENESS.		4. UTILITY POLE	
SURVEY NOTES:		4. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN AMOUNT NECESSARY TO COMPLETE FINISHED GRADING OF ALL EXPOSED AREAS.		1. SPECIFIC MAINTENANCE SHALL INCLUDE:		5. HYDRANT	
1. SURVEY COMPLETED NOVEMBER 12, 2015 BY JEFF PHILLIPS, LS.		5. AREAS THAT ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF FOUR INCHES PRIOR TO PLACEMENT OF TOPSOIL.		a. MAINTAINING SEEDED AREAS INCLUDING RESEEDING WEAK AREAS, RE-GRAING WASH OUTS AND FERTILIZING AS NEEDED.		6. SAMPLE LOCATION	
2. HORIZONTAL DATUM IS REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (2011) - NEW YORK STATE PLANE COORDINATE SYSTEM, WEST ZONE.		6. ALL FILL SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE, OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES, AND CONDUITS, ETC., SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.		b. MAINTAINING MULCHED AREAS INCLUDING REPLACEMENT OF DISTURBED MULCHED AREAS.		7. PROPERTY LINE	
3. VERTICAL DATUM IS REFERENCED TO THE NAVD88.		7. ALL FILL SHALL BE PLACED AND COMPACTED IN LAYERS NOT TO EXCEED 2 FEET IN THICKNESS OR AS OTHERWISE SPECIFIED IN THE CONSTRUCTION SPECIFICATIONS.		c. ALL DEVICES SHALL BE INSPECTED ONCE PER WEEK AND REPAIRED AS NEEDED.		8. MAJOR CONTOUR	
4. MAPPING UNITS ARE U.S. SURVEY FEET.		8. FILL MATERIAL SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH, OR PREVENT, CONSTRUCTION OF SATISFACTORY FILLS.		d. SEDIMENT SHALL BE REMOVED FROM BEHIND SILT FENCE WHEN BULGES START TO OCCUR AND FENCING RESET TO ORIGINAL CONDITION.		9. MINOR CONTOUR	
5. THE CONTOUR INTERVAL IS 1 FOOT.		9. FROZEN MATERIAL OR SOFT, MUCK OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILL SLOPES OR STRUCTURAL FILL.		e. CONSTRUCTION EQUIPMENT SHALL NOT UNNECESSARILY CROSS DRAINAGE SWALES. CROSSING OF DRAINAGE CHANNELS SHALL BE BY MEANS OF BRIDGES, CULVERTS OR OTHER APPROVED METHODS.		10. VEGETATION LINE	
6. UTILITIES SHOWN HEREON WERE PLOTTED FROM SURFACE FEATURES ONLY. UNDERGROUND UTILITIES MAY EXIST WHICH ARE NOT SHOWN HEREON.		10. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.		f. CULVERTS SHALL BE MAINTAINED FREE OF SILT OR DEBRIS.		11. WETLAND LIMIT	
7. PROPERTY LINES SHOWN HEREON ARE BASED UPON A DEED PLOT AND TAX MAP INFORMATION ONLY.		11. ALL BENCHES SHALL BE KEPT FREE OF SEDIMENT DURING ALL PHASES OF CONSTRUCTION.				12. WETLAND 100 FEET BUFFER LIMIT	
WASTE DISPOSAL NOTES:		12. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS.				13. SANITARY SEWER LINE	
1. THE CONTRACTOR MUST TAKE EVERY EFFORT TO REDUCE THE AMOUNT OF WASTE THAT IS GENERATED, TO REUSE MATERIALS WITH THE CONCURRENCE OF NYSDEC, AND TO SEGREGATE WASTE MATERIALS FOR WASTE DISPOSAL.		13. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING.				14. STORM DRAINAGE LINE	
2. ALL WASTE MATERIALS MUST BE PROPERLY TRANSPORTED, STORED, HANDLED, AND CONTAINED TO PREVENT SPILLS, LEAKAGE, DISCHARGE OR RELEASE TO THE ENVIRONMENT. WASTE CONTAINERS MUST BE PROPERLY LABELED TO IDENTIFY CONTENTS.		14. STOCKPILES, BORROW AREAS, AND SPOIL AREAS SHALL BE PROTECTED AS REQUIRED BY THE CONTACT DOCUMENTS. STOCKPILES SHALL NOT BE STORED WITHIN 50 FEET OF A WATER BODY OR IN ANY DRAINAGE PATHS. ALL MATERIALS SHALL BE ENCIRCLED WITH SILT FENCE AND COVERED WHEN NOT IN USE.				15. APPROXIMATE STORM DRAINAGE LINE (NOT SURVEYED)	
3. CONTRACTORS MUST NOT DISCHARGE OR DISPOSE OF ANY WASTE INTO ANY STORM OR SANITARY SEWER DRAIN SYSTEM OR WATER BODY.						16. CHAIN LINK FENCE	
4. CONTRACTORS MUST DISPOSE OF ALL WASTE MATERIALS ACCORDING TO ALL LOCAL, STATE AND FEDERAL REGULATIONS.							
5. NYSDEC SHALL APPROVE THE WASTE DISPOSAL FACILITY SELECTED BY THE CONTRACTOR. ALL WASTE MANIFESTS REQUIRED FOR THE PROJECT SHALL BE PREPARED AND SIGNED BY THE NYSDEC OR THEIR REPRESENTATIVE.							

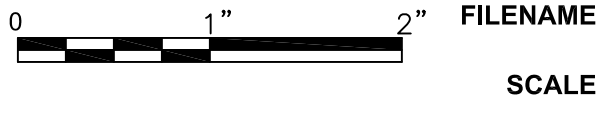


PROJECT MANAGER M. MUSSO		
1	04/29/2016	100% REMEDIAL DESIGN
ISSUE	DATE	DESCRIPTION

PROJECT MANAGER M. MUSSO	
PROJECT NUMBER	147 - 258214

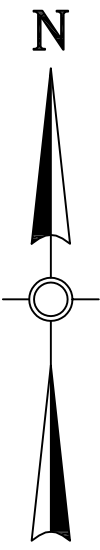
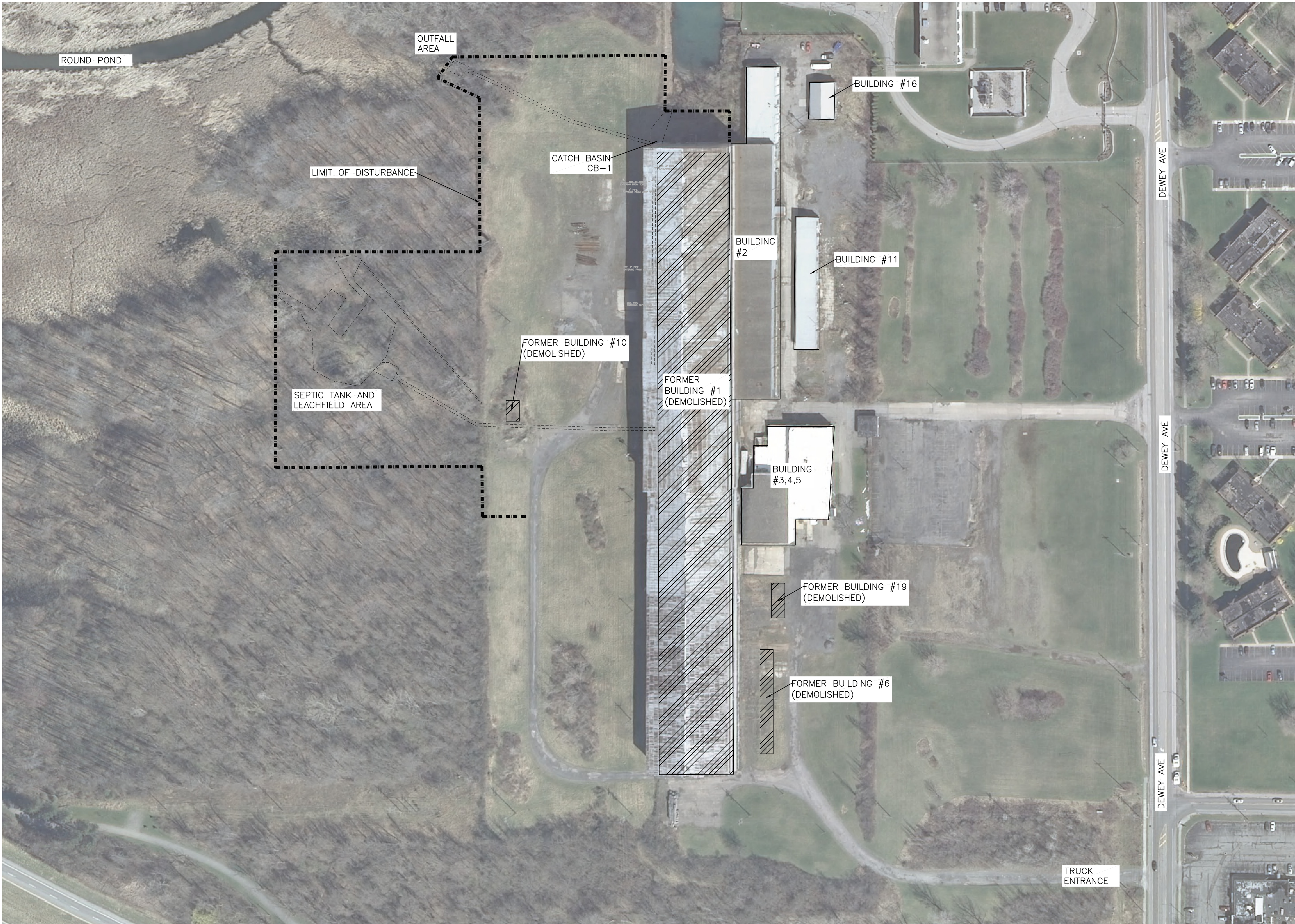
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FORMER AIR FORCE PLANT NO.51
NYSDEC SITE NO. 828156
GREECE, MONROE COUNTY, NEW YORK



GENERAL NOTES AND LEGEND

NOT TO SCALE



- LEGEND:
- DEMOLISHED BUILDING
 - LIMIT OF DISTURBANCE
 - EXCAVATION LIMIT

NOTE:
AERIAL BACKGROUND SOURCE: NYS GIS
CLEARING HOUSE WEBSITE.

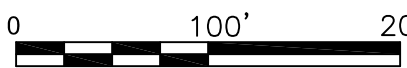


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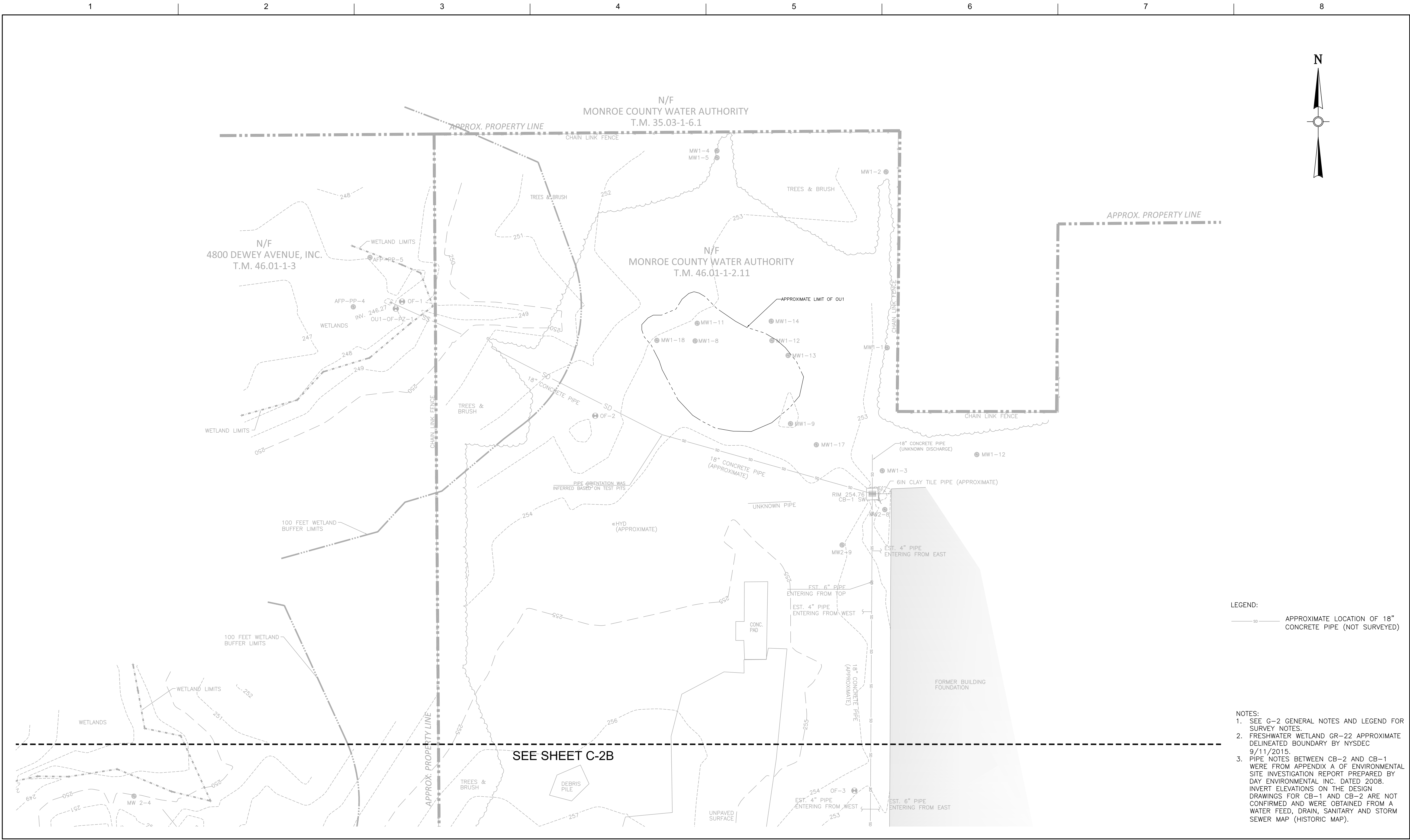
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GREECE, MONROE COUNTY, NEW YORK



FILENAME
SCALE 1"=100'


SITE PLAN

SHEET
C-1



ISSUE	DATE	DESCRIPTION
1	04/29/2016	100% REMEDIAL DESIGN

PROJECT MANAGER	M. MUSSO
PROJECT NUMBER	147-258214




04/29/2016

SIGNATUREDATE

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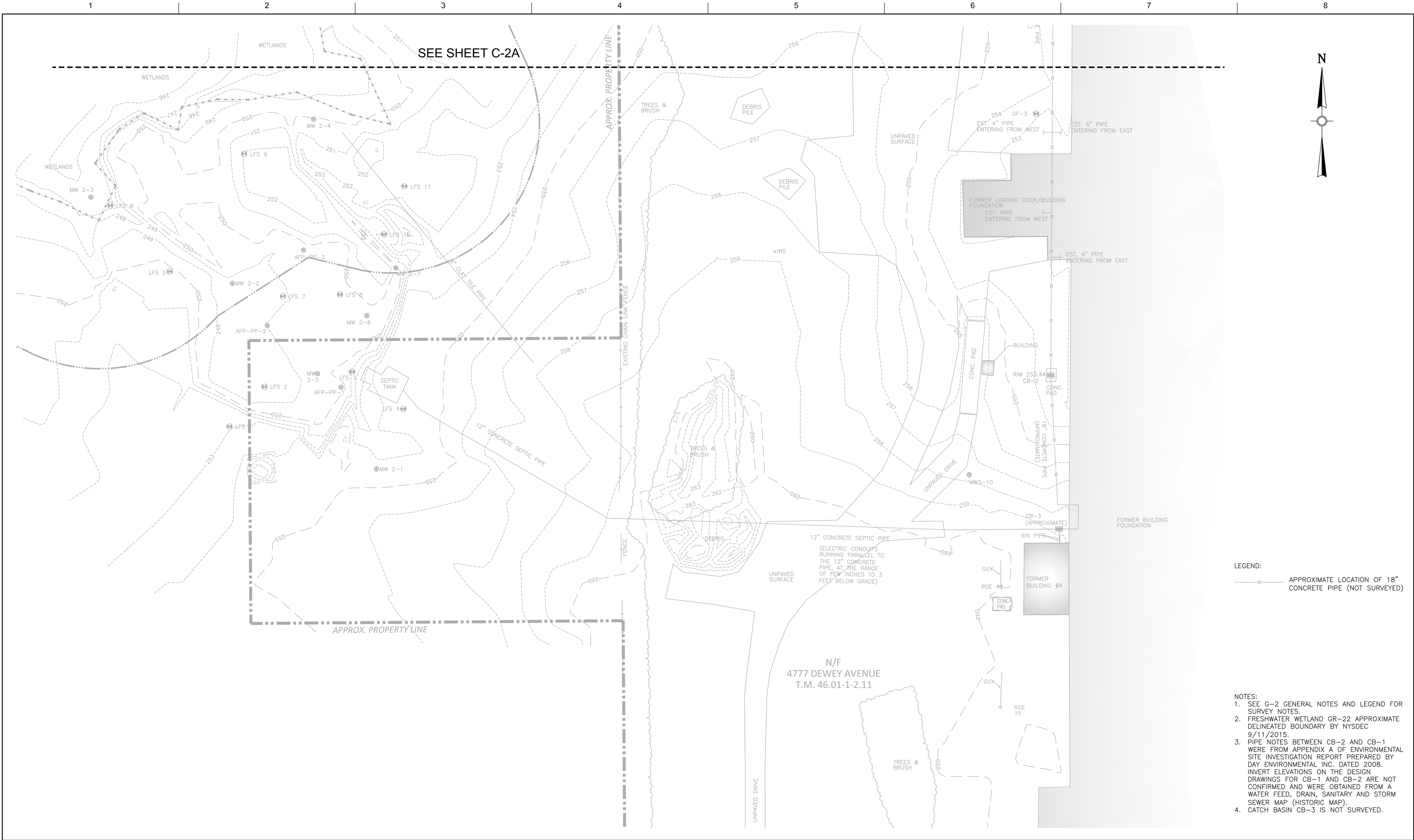
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GREECE, MONROE COUNTY, NEW YORK

EXISTING CONDITIONS
CATCH BASIN CB-1 AND OUTFALL AREA



FILENAME
SCALE1"=30'

SHEET
C-2A



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PROJECT NUMBER	147 - 258214

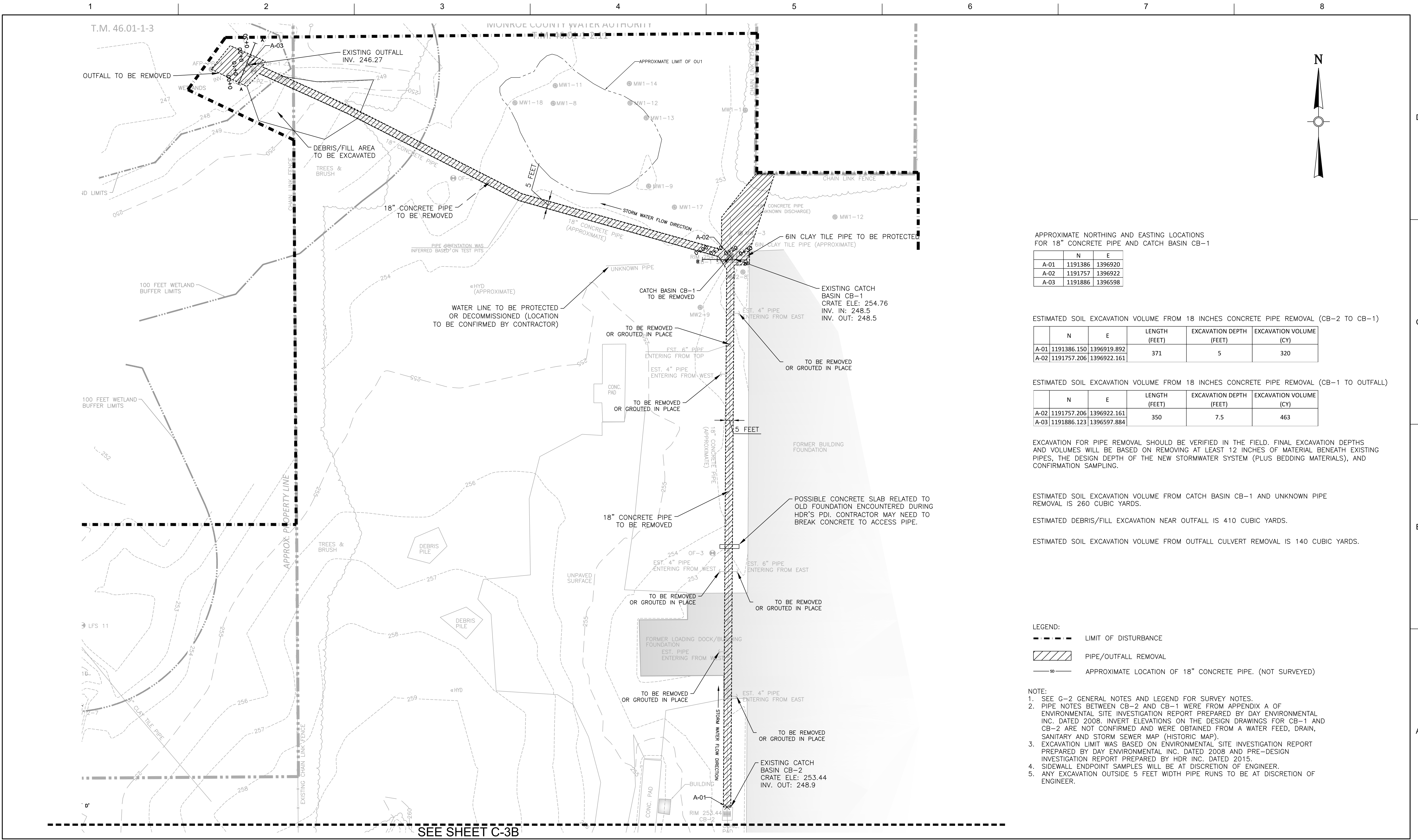
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GREECE, MONROE COUNTY, NEW YORK

EXISTING CONDITIONS
FORMER SEPTIC SYSTEM/LEACHFIELD AREA

SCALE 1"=30'

FILENAME
SHEET
C-2B



APPROXIMATE NORTHING AND EASTING LOCATIONS
FOR 18" CONCRETE PIPE AND CATCH BASIN CB-1

	N	E
A-01	1191386	1396920
A-02	1191757	1396922
A-03	1191886	1396598

ESTIMATED SOIL EXCAVATION VOLUME FROM 18 INCHES CONCRETE PIPE REMOVAL (CB-2 TO CB-1)

	N	E	LENGTH (FEET)	EXCAVATION DEPTH (FEET)	EXCAVATION VOLUME (CY)
A-01	1191386.150	1396919.892	371	5	320
A-02	1191757.206	1396922.161			

ESTIMATED SOIL EXCAVATION VOLUME FROM 18 INCHES CONCRETE PIPE REMOVAL (CB-1 TO OUTFALL)

	N	E	LENGTH (FEET)	EXCAVATION DEPTH (FEET)	EXCAVATION VOLUME (CY)
A-02	1191757.206	1396922.161	350	7.5	463
A-03	1191886.123	1396597.884			

EXCAVATION FOR PIPE REMOVAL SHOULD BE VERIFIED IN THE FIELD. FINAL EXCAVATION DEPTHS AND VOLUMES WILL BE BASED ON REMOVING AT LEAST 12 INCHES OF MATERIAL BENEATH EXISTING PIPES, THE DESIGN DEPTH OF THE NEW STORMWATER SYSTEM (PLUS BEDDING MATERIALS), AND CONFIRMATION SAMPLING.

ESTIMATED SOIL EXCAVATION VOLUME FROM CATCH BASIN CB-1 AND UNKNOWN PIPE REMOVAL IS 260 CUBIC YARDS.

ESTIMATED DEBRIS/FILL EXCAVATION NEAR OUTFALL IS 410 CUBIC YARDS.

ESTIMATED SOIL EXCAVATION VOLUME FROM OUTFALL CULVERT REMOVAL IS 140 CUBIC YARDS.

- LEGEND:
- LIMIT OF DISTURBANCE
 - /// PIPE/OUTFALL REMOVAL
 - - - - - APPROXIMATE LOCATION OF 18" CONCRETE PIPE. (NOT SURVEYED)

- NOTE:
- SEE C-2 GENERAL NOTES AND LEGEND FOR SURVEY NOTES.
 - PIPE NOTES BETWEEN CB-2 AND CB-1 WERE FROM APPENDIX A OF ENVIRONMENTAL SITE INVESTIGATION REPORT PREPARED BY DAY ENVIRONMENTAL INC. DATED 2008. INVERT ELEVATIONS ON THE DESIGN DRAWINGS FOR CB-1 AND CB-2 ARE NOT CONFIRMED AND WERE OBTAINED FROM A WATER FEED, DRAIN, SANITARY AND STORM SEWER MAP (HISTORIC MAP).
 - EXCAVATION LIMIT WAS BASED ON ENVIRONMENTAL SITE INVESTIGATION REPORT PREPARED BY DAY ENVIRONMENTAL INC. DATED 2008 AND PRE-DESIGN INVESTIGATION REPORT PREPARED BY HDR INC. DATED 2015.
 - SIDEWALL ENDPOINT SAMPLES WILL BE AT DISCRETION OF ENGINEER.
 - ANY EXCAVATION OUTSIDE 5 FEET WIDTH PIPE RUNS TO BE AT DISCRETION OF ENGINEER.

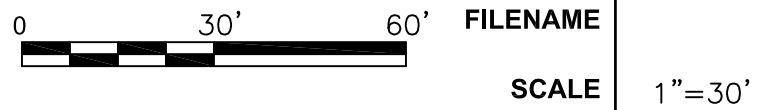


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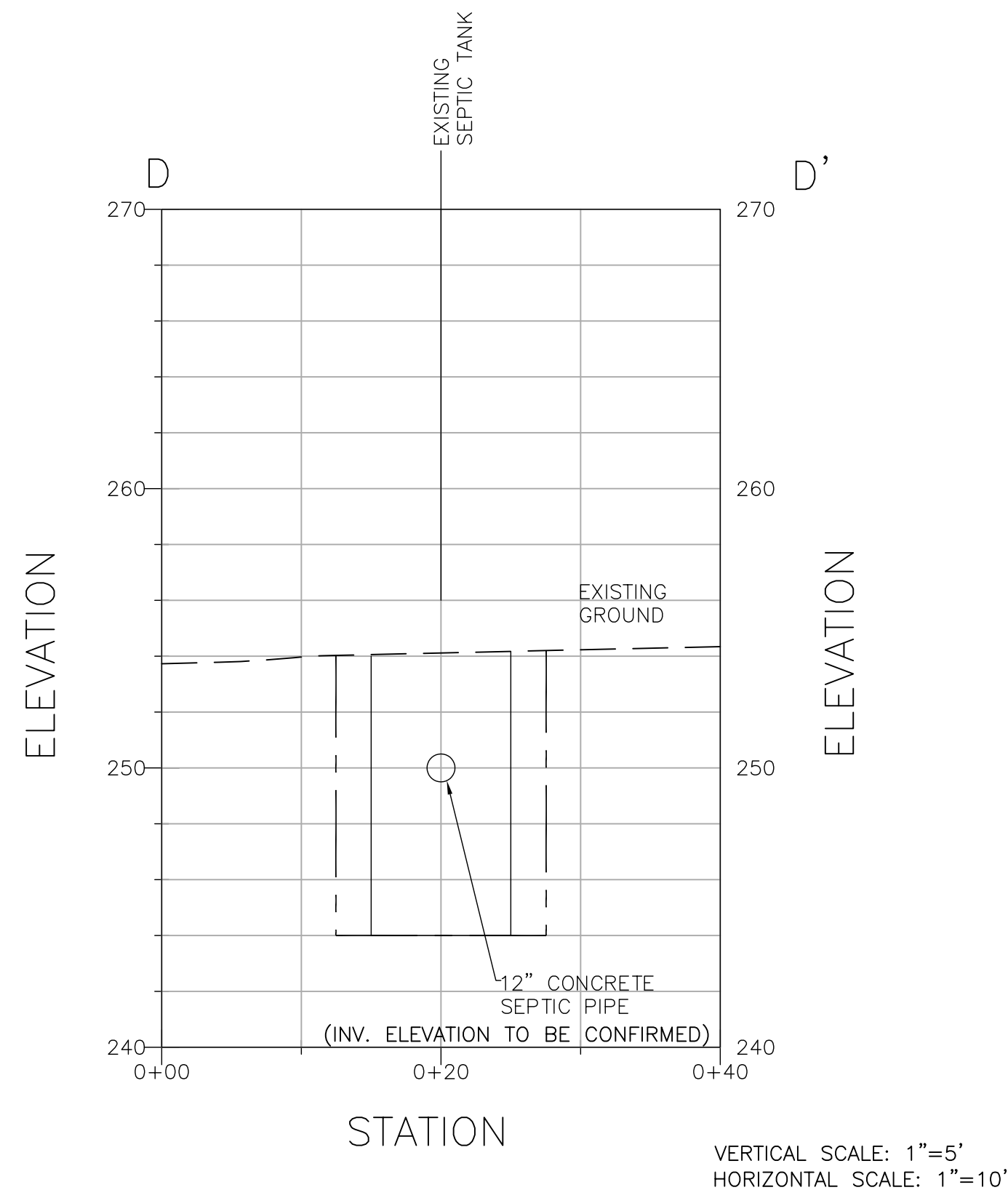
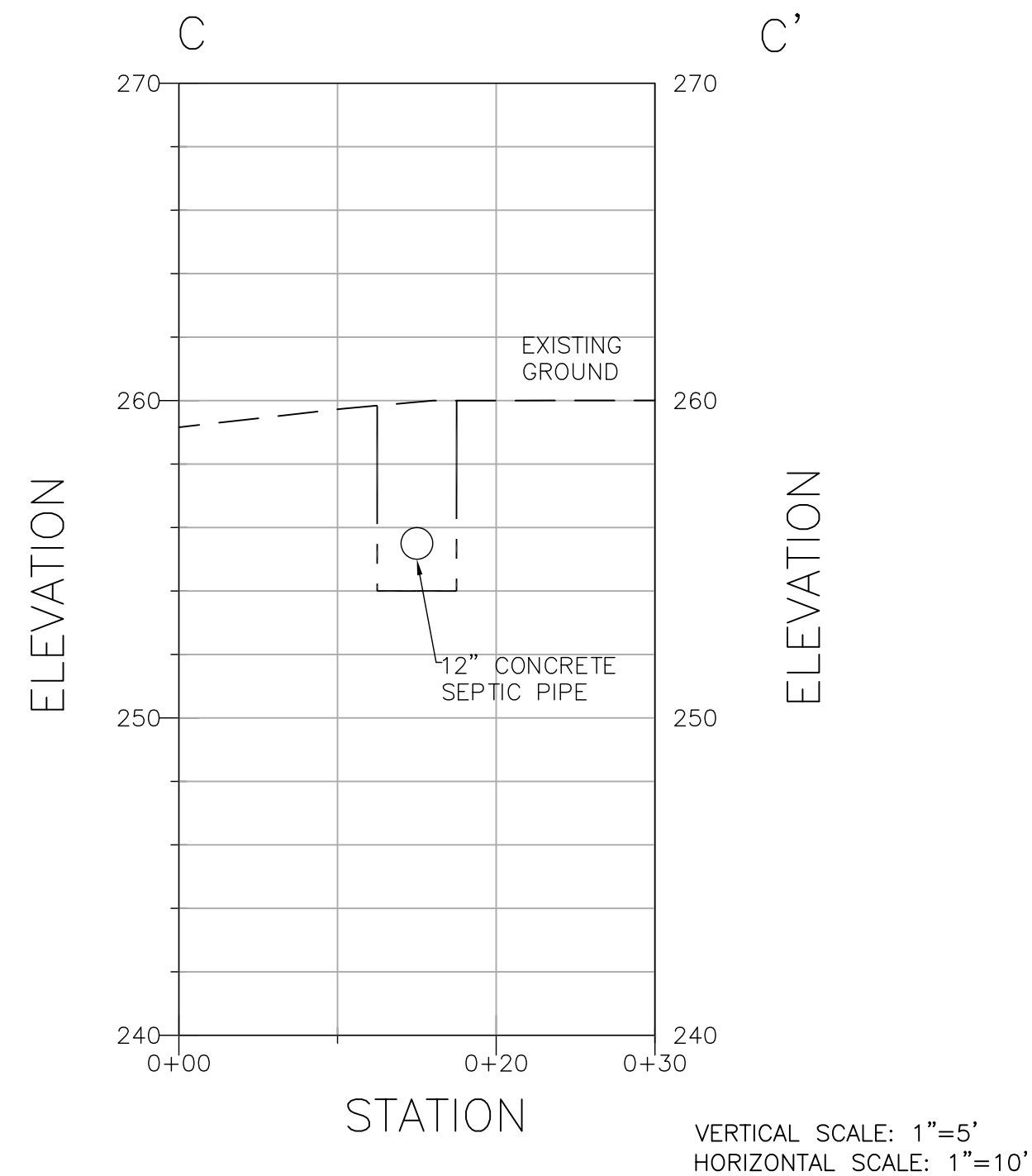
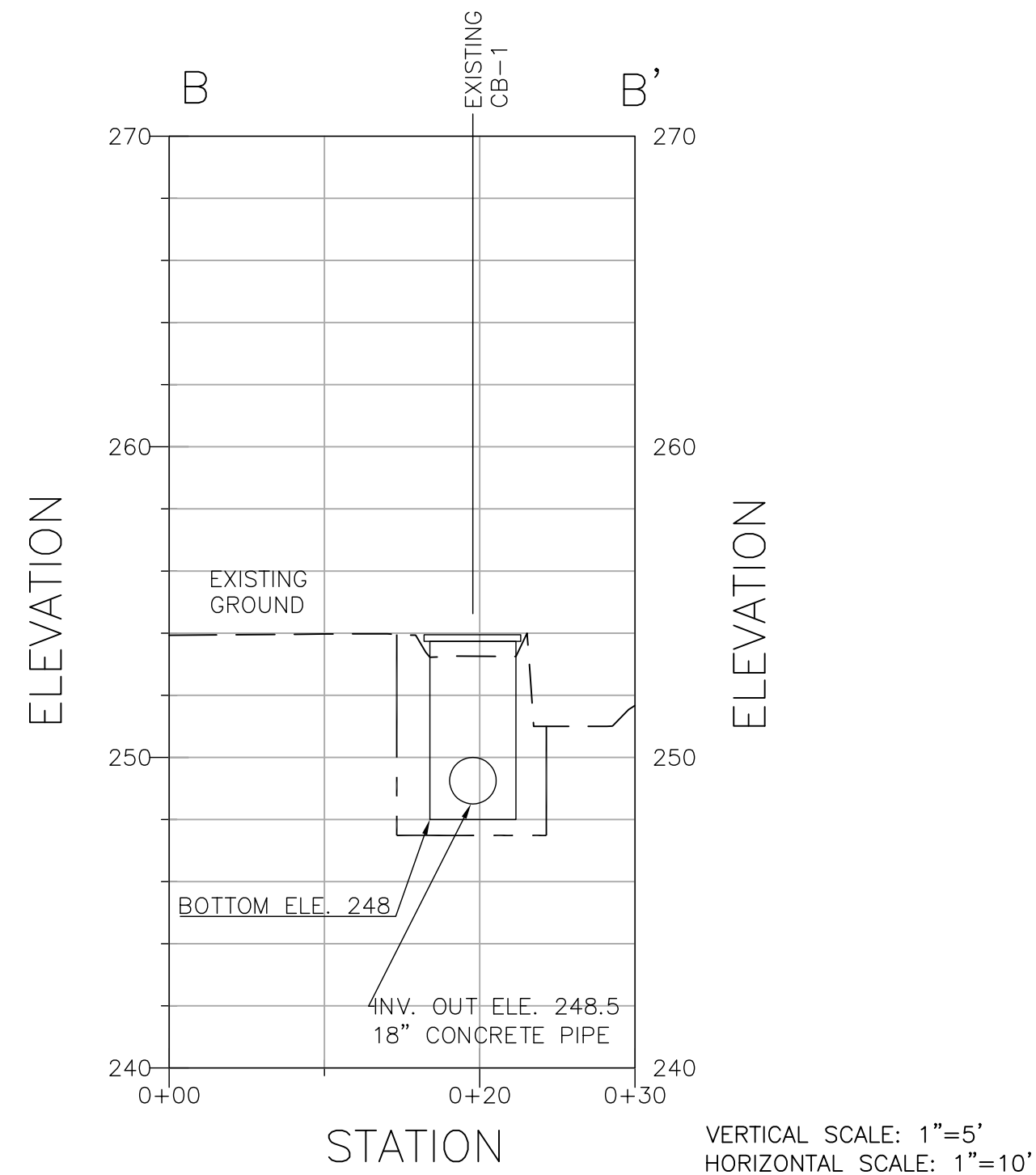
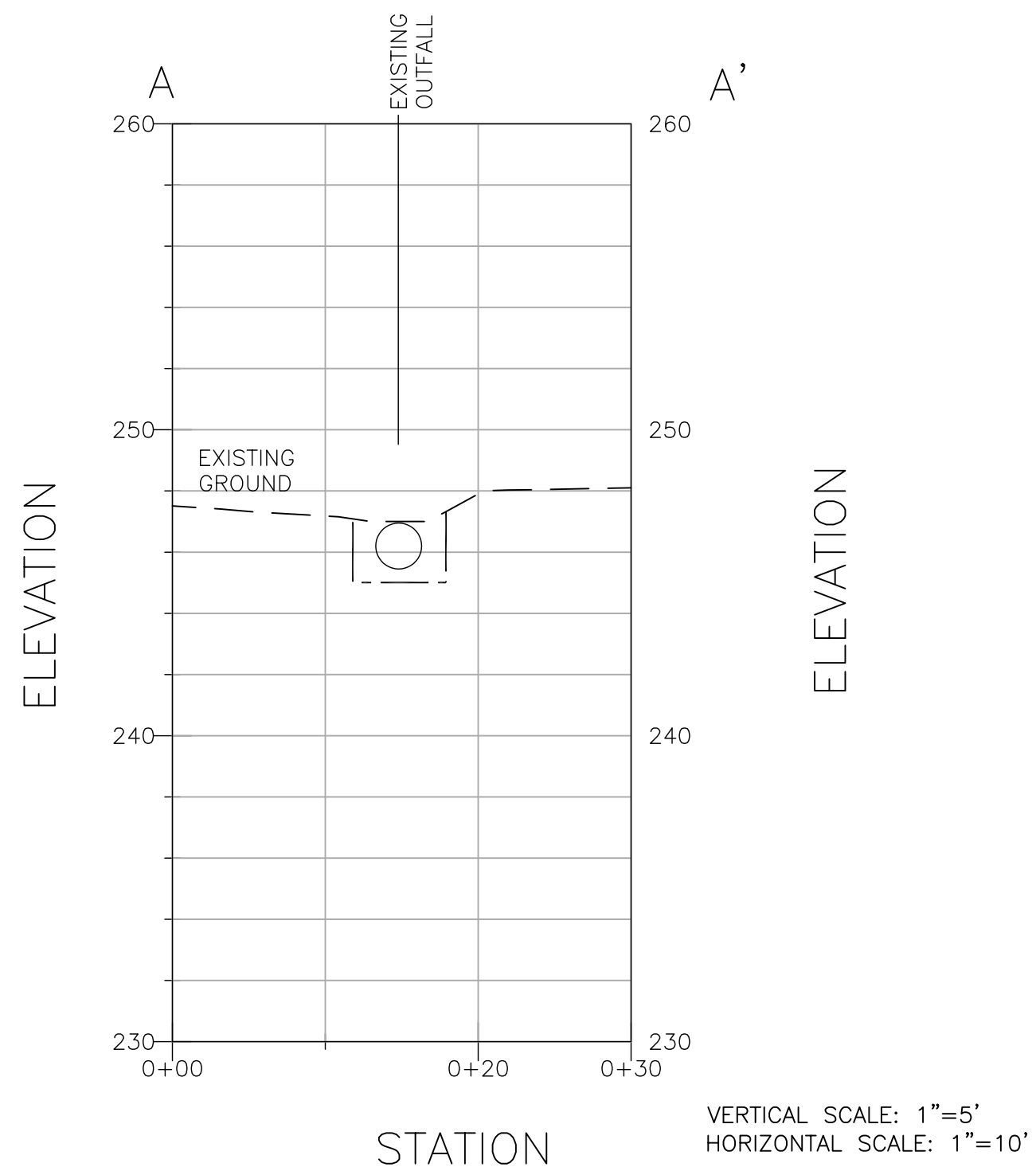
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FORMER AIR FORCE PLANT NO.51
NYSDEC SITE NO. 828156
GREECE, MONROE COUNTY, NEW YORK



EXCAVATION PLAN
CATCH BASIN CB-1 AND OUTFALL AREA

SHEET
C-3A



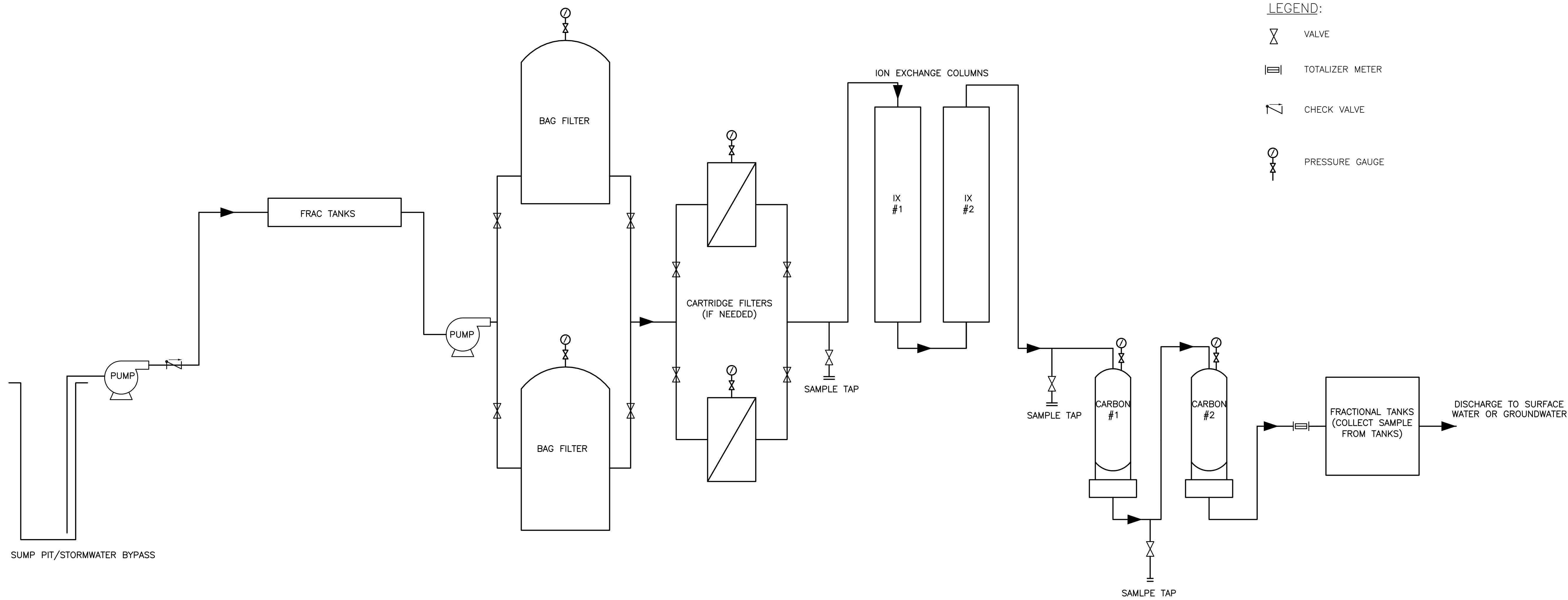
LEGEND:
- - - - - EXISTING GROUND SURFACE
- - - - - ESTIMATED LIMIT OF DISTURBANCE

NOTES:
1. INFORMATION ON EXISTING PIPING AND STORMWATER INFRASTRUCTURE (INCLUDING BUT NOT LIMITED TO PIPE INVERTS AND LOCATIONS, AS SHOWN ON THIS DRAWING) WAS FROM APPENDIX A OF THE ENVIRONMENTAL SITE INVESTIGATION REPORT PREPARED BY DAY ENVIRONMENTAL INC. DATED 2008. INVERT ELEVATIONS ON THE DESIGN DRAWINGS FOR CB-1 AND CB-2 ARE NOT CONFIRMED AND WERE OBTAINED FROM A WATER FEED, DRAIN, SANITARY AND STORM SEWER MAP (HISTORIC MAP).
2. EXISTING CONDITIONS TO BE FIELD VERIFIED AND SURVEYED.

ISSUE	DATE	DESCRIPTION
1	04/29/2016	100% REMEDIAL DESIGN

PROJECT MANAGER	M. MUSSO
PROJECT NUMBER	147 - 258214

SIGNATURE	DATE
	04/29/2016
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NOTE:
THE CONTRACTOR MAY DEVELOP OWN DEWATERING AND
TREATMENT PROCESS TO BE APPROVED BY THE
ENGINEER.




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ISSUE	DATE	DESCRIPTION
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SIGNATUREDATE

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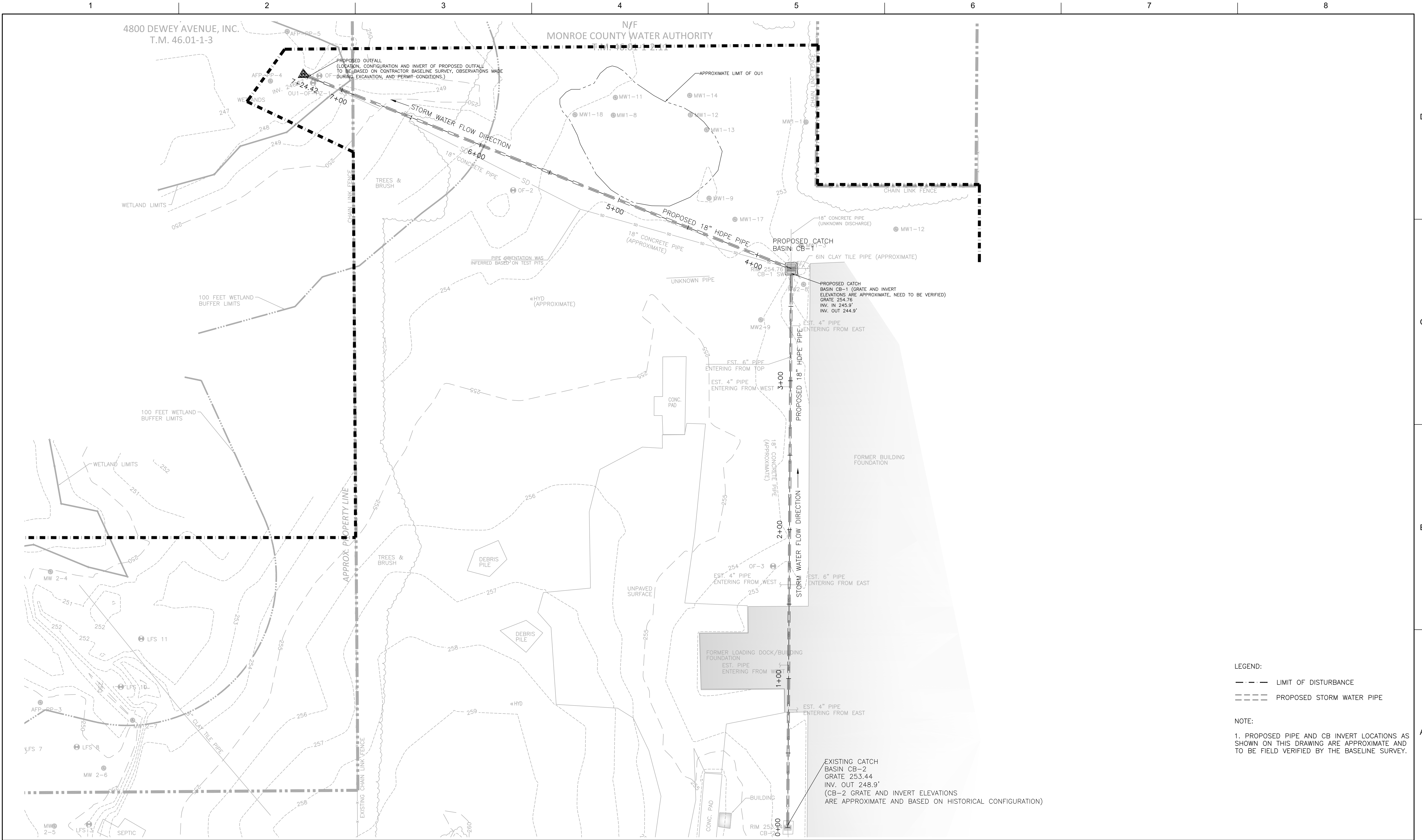
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NYSDEC SITE NO. 828156
GREECE, MONROE COUNTY, NEW YORK

DEWATERING AND WATER TREATMENT
PROCESS FLOW DIAGRAM



FILENAME
SCALE N.T.S.

SHEET
C-6



LEGEND:

--- LIMIT OF DISTURBANCE

--- PROPOSED STORM WATER PIPE

NOTE:

1. PROPOSED PIPE AND CB INVERT LOCATIONS AS SHOWN ON THIS DRAWING ARE APPROXIMATE AND TO BE FIELD VERIFIED BY THE BASELINE SURVEY.



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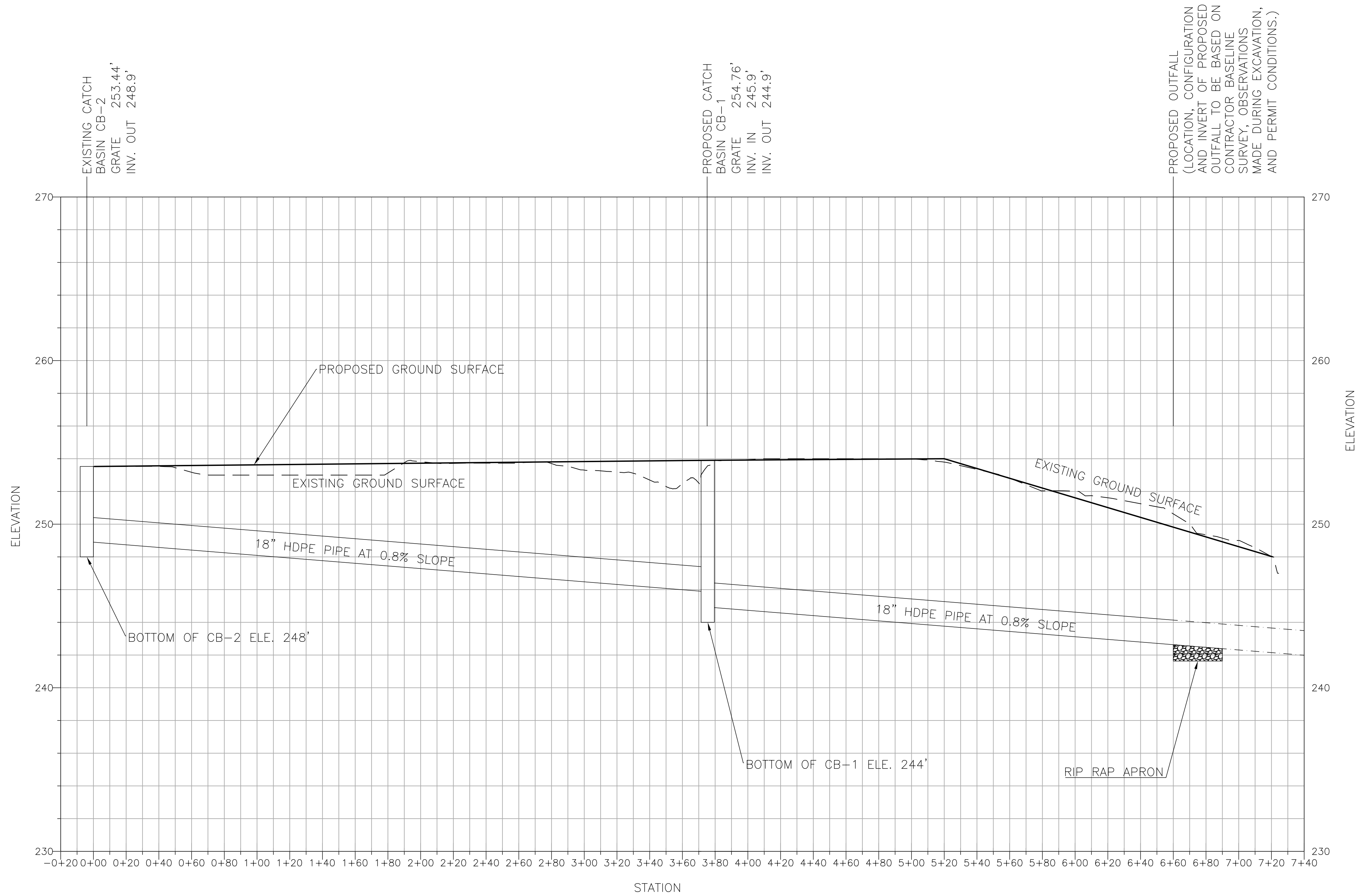
FORMER AIR FORCE PLANT NO.51
NYSDEC SITE NO. 828156
GREECE, MONROE COUNTY, NEW YORK

NEW STORM SEWER SYSTEM PLAN

FILENAME

SHEET C-7

SCALE 1"=30'



LEGEND:

- EXISTING GROUND SURFACE
- PROPOSED GROUND SURFACE
- - - - ESTIMATED HDPE PIPE LOCATION

HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=4'


NOTE:

1. PROPOSED PIPE AND CB INVERT LOCATIONS AS SHOWN ON THIS DRAWING ARE APPROXIMATE AND TO BE FIELD VERIFIED BY THE BASELINE SURVEY.



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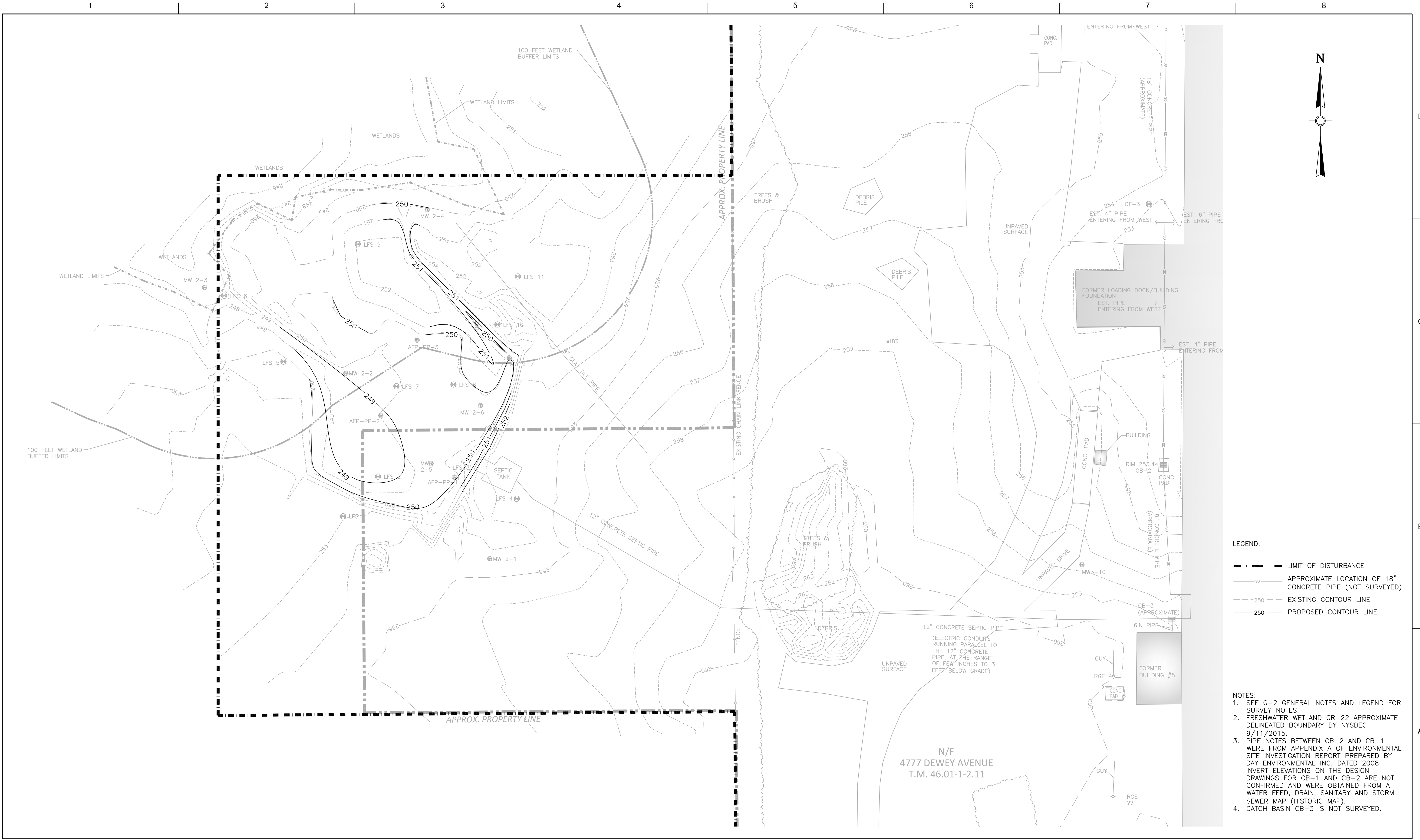
FORMER AIR FORCE PLANT NO.51
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NEW STORM SEWER UTILITY PROFILE



FILENAME
SCALE

SHEET
C-8

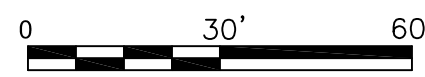


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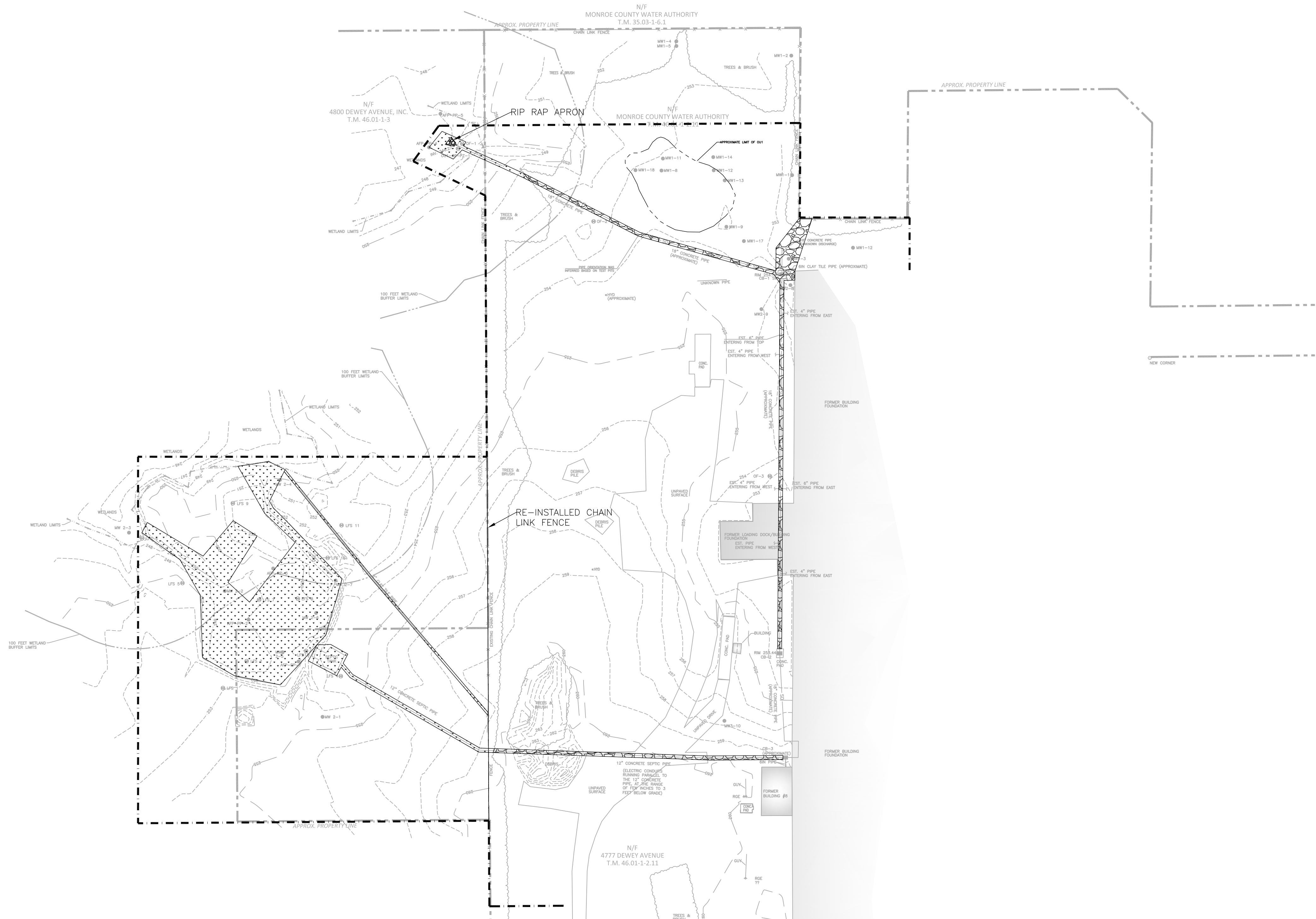
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NYSDEC SITE NO. 828156
GREECE, MONROE COUNTY, NEW YORK



FILENAME
SCALE 1"=30'

GRADING PLAN

SHEET
C-9



LEGEND:

- — — — — LIMIT OF DISTURBANCE
— — — — — APPROXIMATE LOCATION OF 18" CONCRETE PIPE (NOT SURVEYED)
GRAVEL OR SEED TOP AREA
SEED/GRASS AREA

NOTES:

1. SEE G-2. GENERAL NOTES AND LEGEND FOR SURVEY NOTES.
2. FRESHWATER WETLAND GR-22 APPROXIMATE DELINEATED BOUNDARY BY NYSDEC 9/11/2015.
3. PIPE NOTES BETWEEN CB-2 AND CB-1 WERE FROM APPENDIX A OF ENVIRONMENTAL SITE INVESTIGATION REPORT PREPARED BY DAY ENVIRONMENTAL INC. DATED 2008. INVERT ELEVATIONS ON THE DESIGN DRAWINGS FOR CB-1 AND CB-2 ARE NOT CONFIRMED AND WERE OBTAINED FROM A WATER FEED, DRAIN, SANITARY AND STORM SEWER MAP (HISTORIC MAP).
4. CONTRACTOR SHOULD RE-INSTALL THE CHAIN LINK FENCE AFTER CONSTRUCTION.

ISSUE	DATE	DESCRIPTION
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PROJECT MANAGER M. MUSSO

PROJECT NUMBER	147 - 258214



04/29/2016

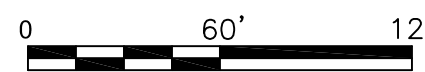
SIGNATURE

DATE

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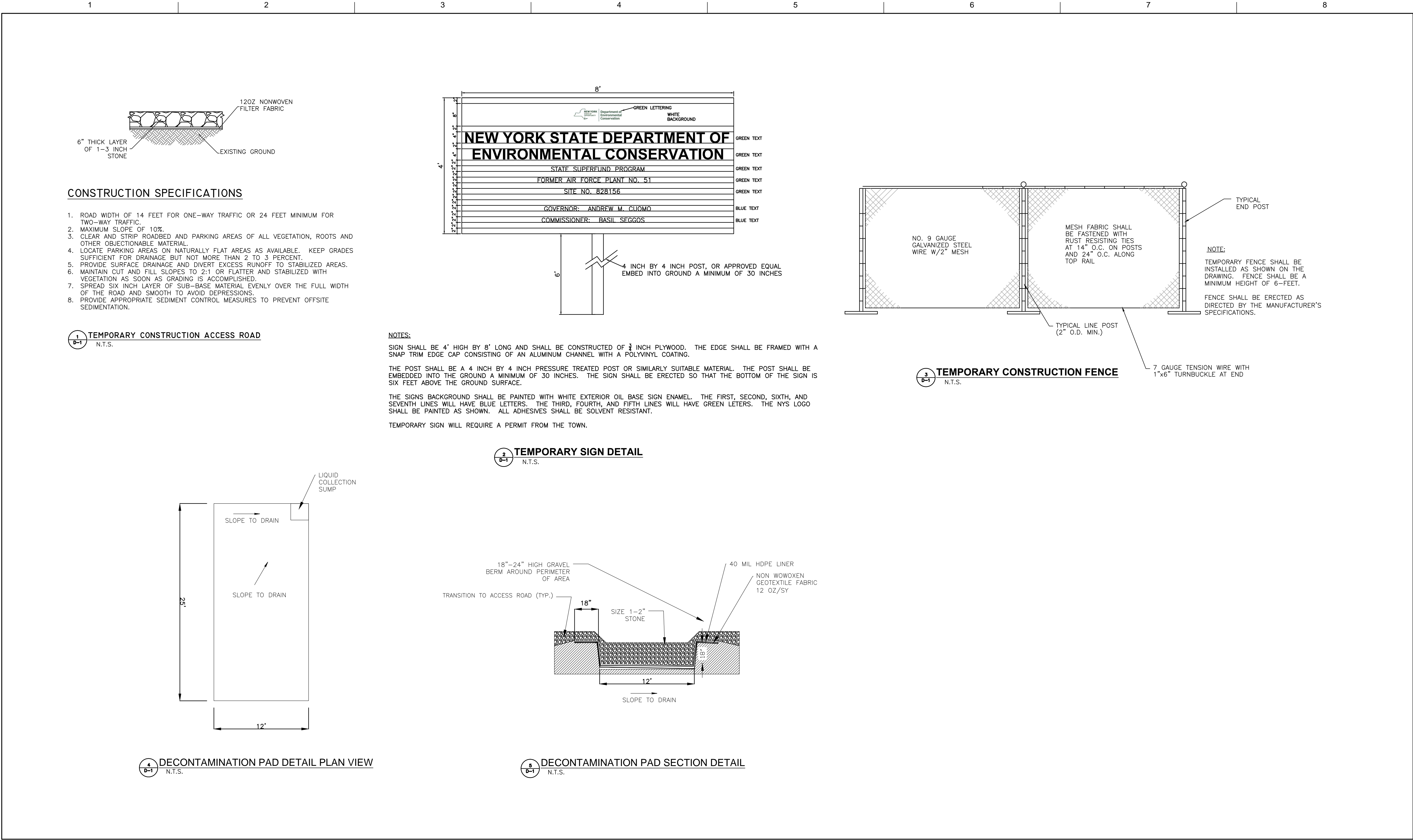
RESTORATION PLAN



FILENAME
SCALE 1"=60'

SHEET

C-10



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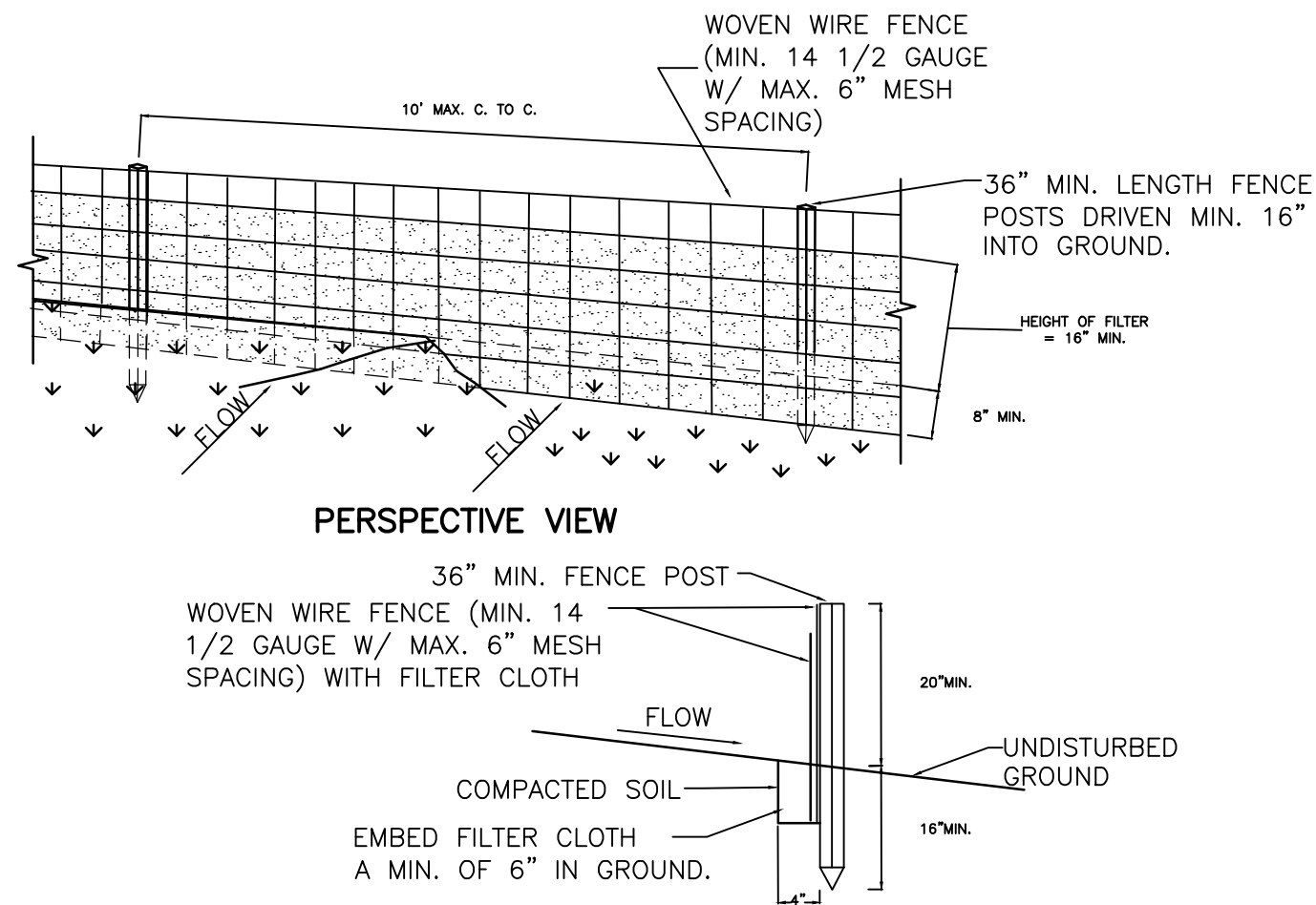
FORMER AIR FORCE PLANT NO.51
NYSDEC SITE NO. 828156
GREECE, MONROE COUNTY, NEW YORK

CONSTRUCTION DETAILS



FILENAME
SCALE NOT TO SCALE

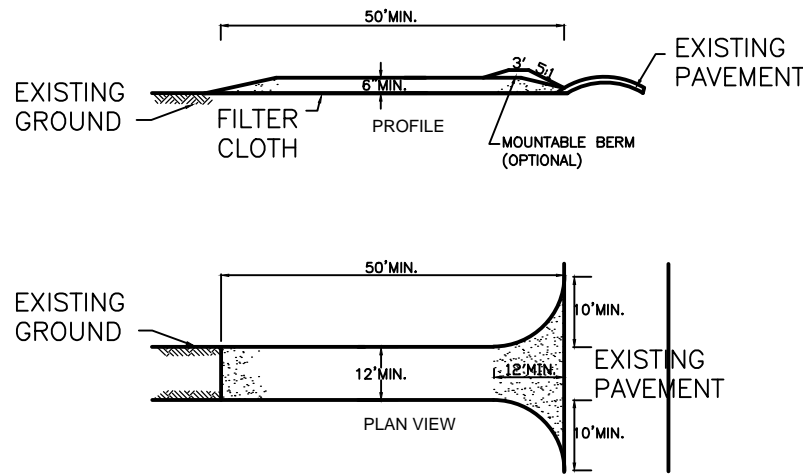
SHEET
D-1



CONSTRUCTION SPECIFICATIONS

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
- FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12 1/2 GAUGE, 6" MAXIMUM MESH OPENING.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER- LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
- PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP OR SIX INCHES OF SEDIMENT HAS COLLECTED IN THE SILT FENCE.
- SILT FENCE SHALL BE INSPECTED AFTER RAINFALL EVENTS OF 0.5 INCHES OR GREATER.

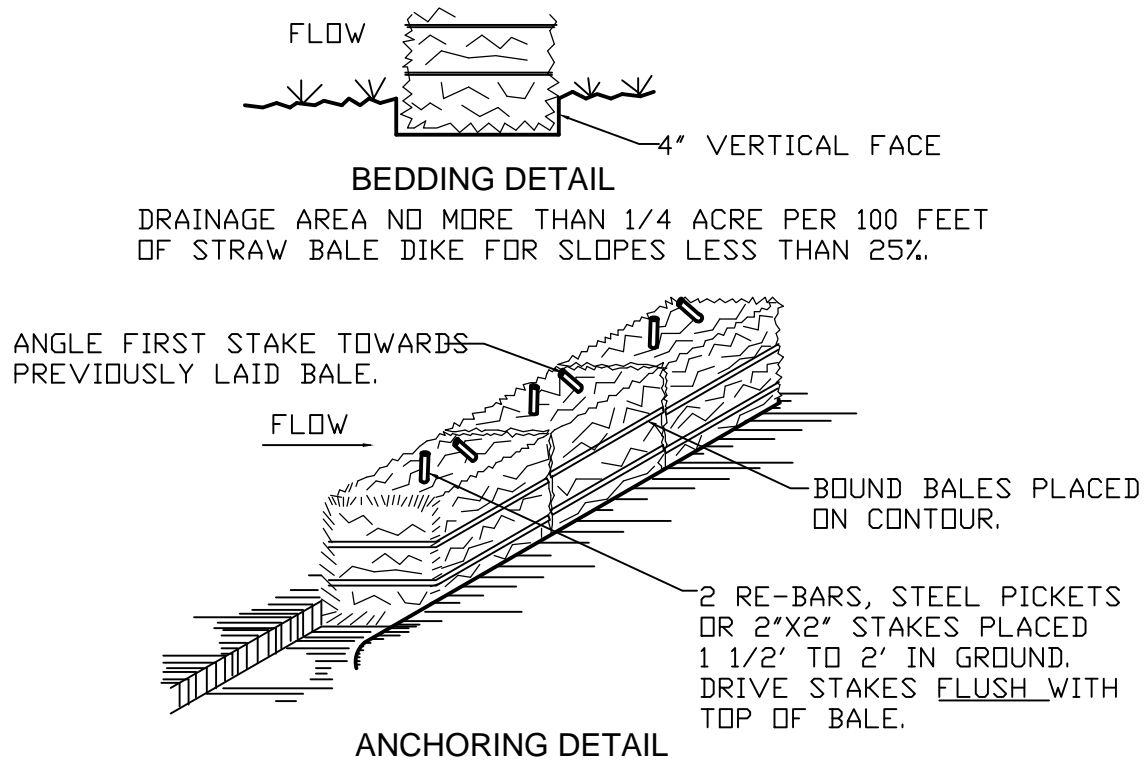
1 D-2 SILT FENCE N.T.S.



CONSTRUCTION SPECIFICATIONS

- STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
- FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CON- STRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

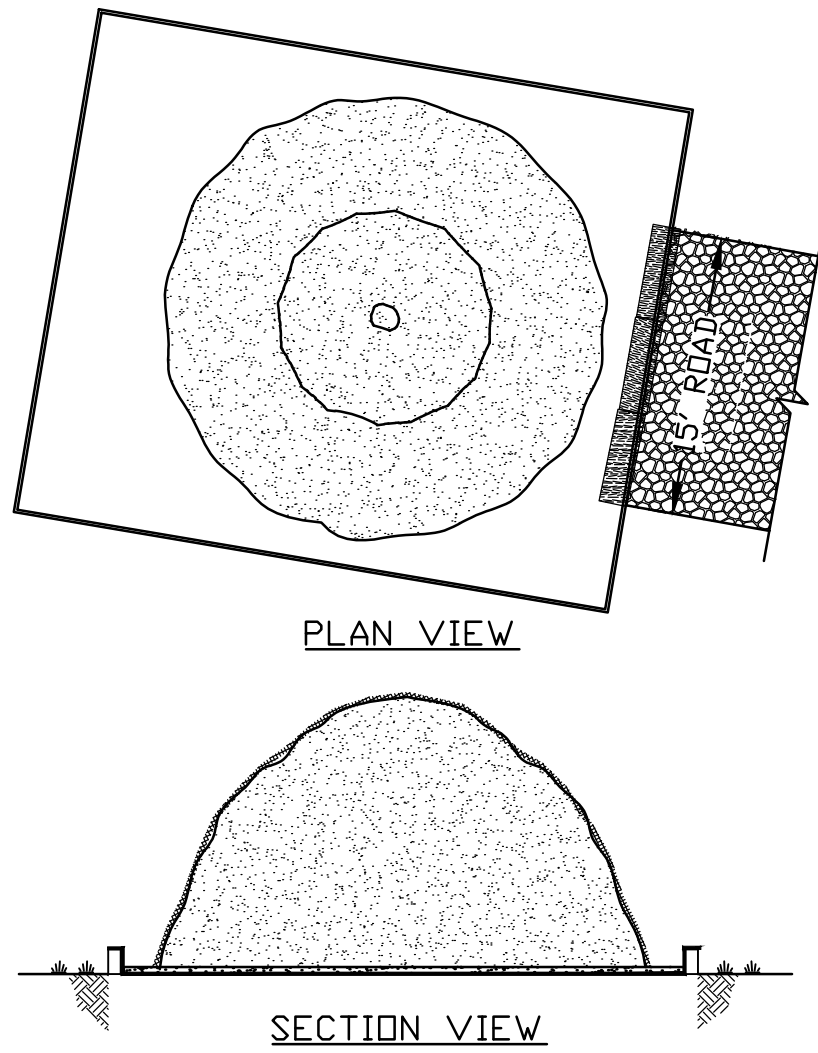
4 D-2 STABILIZED CONSTRUCTION ENTRANCE N.T.S.



CONSTRUCTION SPECIFICATIONS

- BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
- EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
- INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMTLY AS NEEDED.
- BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULLNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

2 D-2 STRAW BALE DIKE N.T.S.



- CONTAMINATED SOIL STOCKPILES MUST BE PLACED ON A HDPE GEO-MEMBRANE LINER COVERED WITH A 4 INCH LAYER OF SAND AND GEO-TEXTILE FILTER FABRIC. THE HDPE LINER SHALL HAVE A MINIMUM THICKNESS AS SPECIFIED IN THE CONTRACT SPECIFICATIONS.
- THE GEO-MEMBRANE SHALL BE PLACED SUCH THAT STOCKPILED SOIL DOES NOT COME INTO CONTACT WITH SURFACE WATER RUN-OFF.
- A BERM OR SILT FENCE SHALL BE INSTALLED AROUND THE STOCKPILED SOIL TO PREVENT THE MIGRATION OF CONTAMINANTS.
- STOCKPILES SHALL BE COVERED WITH A 10 MIL SHEET OF GEO-MEMBRANE TO PREVENT RAIN OR SURFACE WATER FROM COMING INTO CONTACT WITH THE CONTAMINATED SOIL.
- THE COVER SHALL BE ANCHORED WITH SANDBAGS TO PREVENT IT FROM BEING BLOWN AWAY.

3 D-2 SOIL STOCKPILE DETAIL N.T.S.

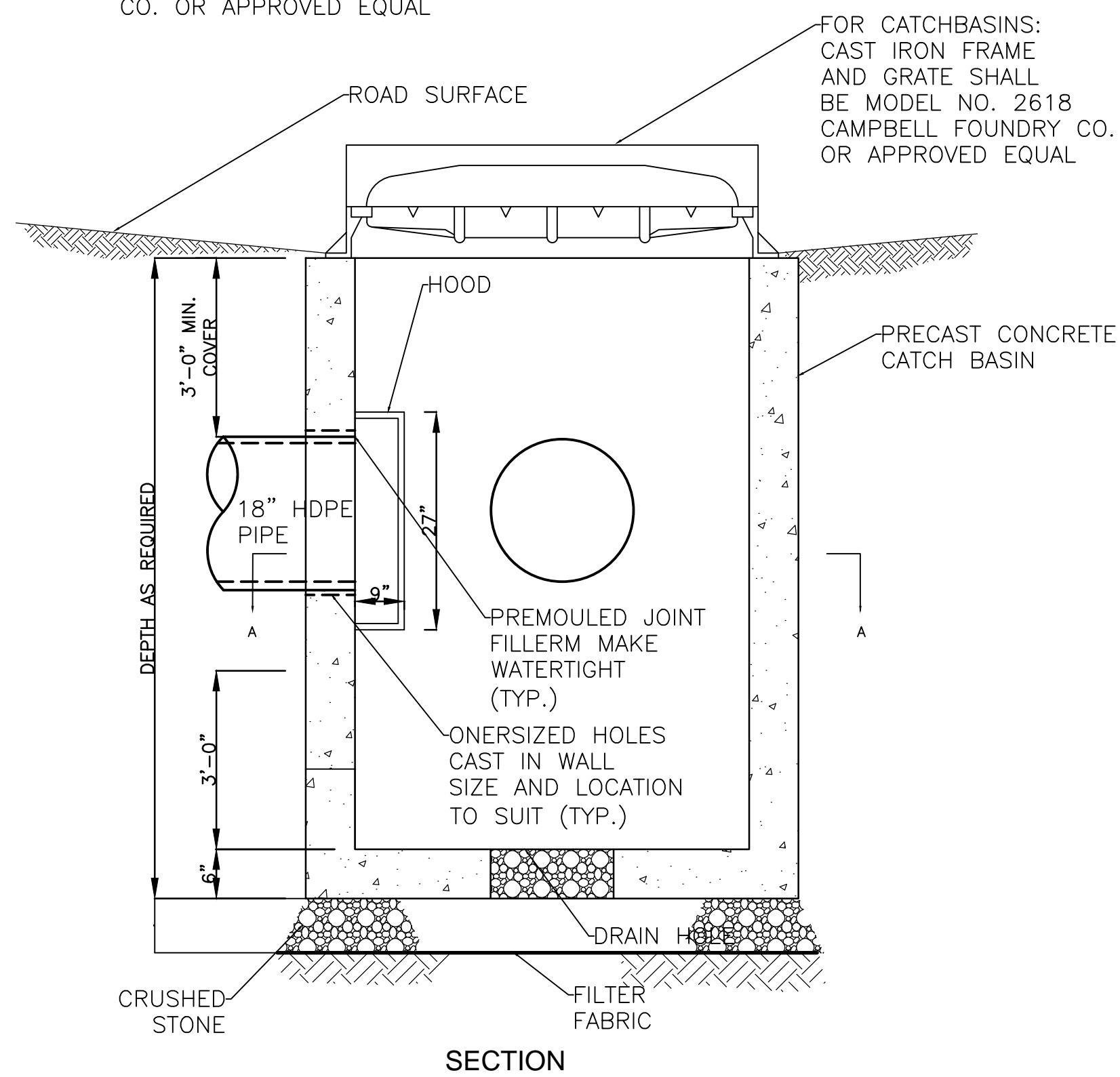
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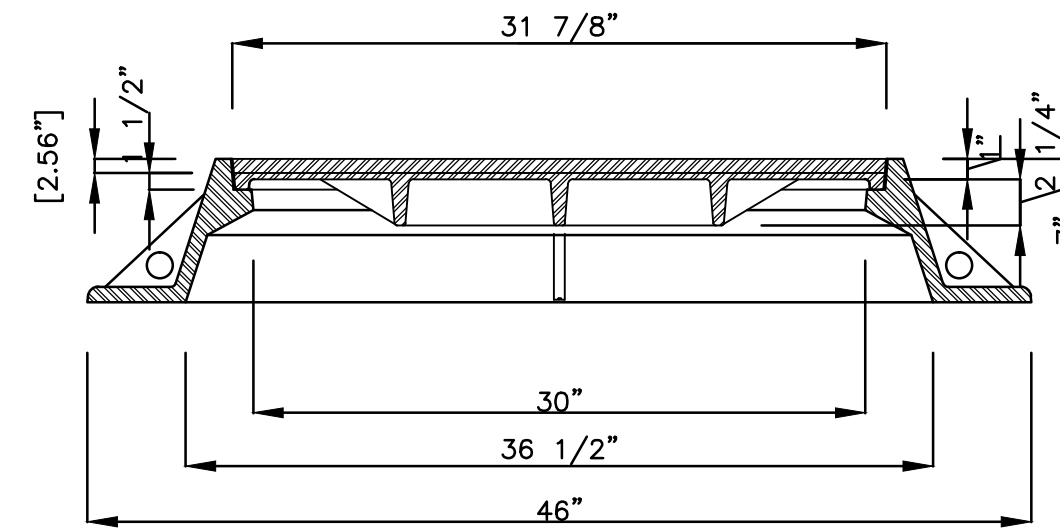
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FOR FIELD INLETS: CAST
IRON FRAME AND GRATE
SHALL BE MODEL NO.
3423 CAMPBELL FOUNDRY
CO. OR APPROVED EQUAL

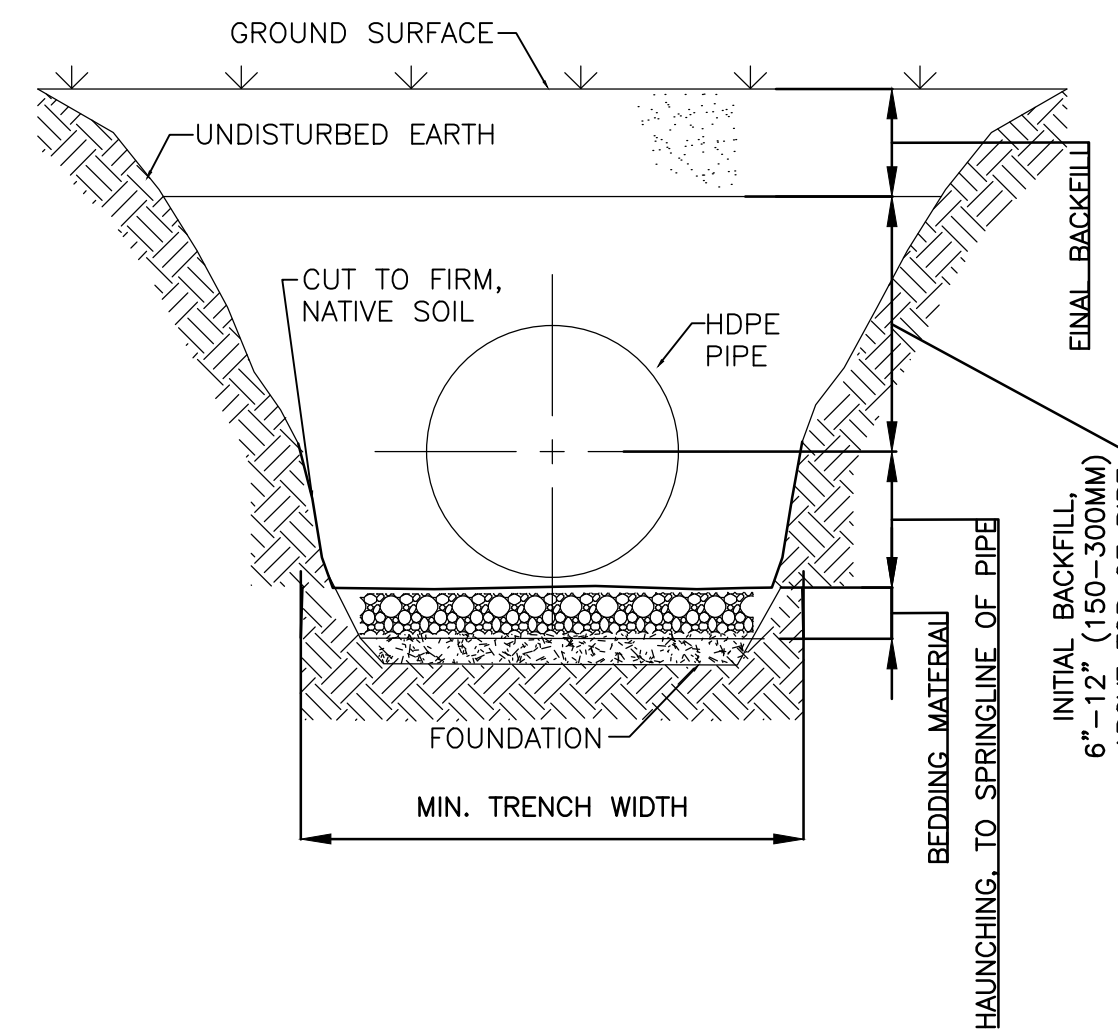


1 **CATCH BASIN DETAIL**
D-3 N.T.S.



[2.56"] DISTANCE FROM NEUTRAL AXIS TO EXTREME FIBER

CATCH BASIN LID (WGT. 266 LBS STD. TYPE)
N.T.S.



NOTES

1. **FOUNDATION:** WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH A FOUNDATION OF CLASS I OR II MATERIAL AS DEFINED IN ASTM D2321, "STANDARD PRACTICE FOR INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS," LATEST EDITION; AS AN ALTERNATIVE AND AT THE DISCRETION OF THE ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A WOVEN GEOTEXTILE FABRIC.

2. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III AND INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.

UNLESS OTHERWISE SPECIFIED BY THE ENGINEER,
MINIMUM BEDDING THICKNESS SHALL BE 4"
(100mm) FOR 4"-24" (100-600mm) AND
42"-48"(1050-1200mm) CORRUGATED
POLYETHYLENE PIPE (CPEP); 6" (150mm) FOR
30"-36" (750-900mm) CPEP.

3. HAUNCHING AND INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III AND INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.

4. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, MINIMUM TRENCH WIDTHS SHALL BE 39 INCHES FOR 18 INCHES ADS PIPE.

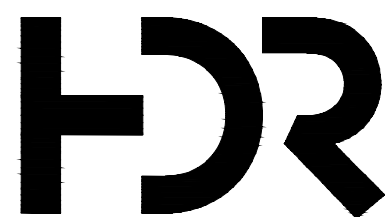
5. MINIMUM COVER: MINIMUM RECOMMENDED DEPTHS OF COVER FOR VARIOUS LIVE LOADING CONDITIONS ARE SUMMARIZED BELOW. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE TAKEN FROM THE TOP OF PIPE TO THE GROUND SURFACE.

SURFACE LIVE LOADING CONDITION	MINIMUM RECOMMEND COVER, IN (MM)
H20 (FLEXIBLE PAVEMENT)	12 (300)*
H20 (RIGID PAVEMENT)	12 (300)
E80 RAILWAY	24 (610)
HEAVY CONSTRUCTION	48 (1220)

3
D-3 **OPEN DITCH INSTALLATION TYPICAL CROSS-SECTION**
N.T.S.



**Department of
Environmental
Conservation**



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[illegible]

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GREECE, MONROE COUNTY, NEW YORK**

STORM SEWER RESTORATION DETAILS



FILE NAME

SCALE

NOT TO SCALE

| SHEET

D-3