

**LEGEND**

- 1050 EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- TAX PARCEL LINE
- SURVEYED PROPERTY LINE
- RIGHT-OF-WAY
- EXISTING PAVED ROAD
- EXISTING UNPAVED ROAD
- EXISTING STREAM
- EXISTING WETLAND
- STREAM AND WETLAND DELINEATION BOUNDARY
- ASSUMED 50' FLOODWAY
- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING OVERHEAD WIRE
- EXISTING UTILITY POLE
- EXISTING ELECTRIC METER
- EXISTING STORM INLET
- EXISTING STORM MANHOLE
- EXISTING CULVERT OR STORM PIPE
- EXISTING SEPTIC TANK
- EXISTING GAS METER
- EXISTING BUILDING
- EXISTING FENCE
- EXISTING MAILBOX
- EXISTING SIGN
- PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- PROPOSED EDGE OF GRAVEL PAD
- PROPOSED GRAVEL ACCESS ROAD
- PROPOSED TOP/BOTTOM OF BMP
- PROPOSED WELL HEAD
- PROPOSED ASPHALT PAVEMENT
- FS PROPOSED COMPOST FILTER SOCK
- CFS PROPOSED COMPOST FILTER SOCK TRAP
- PROPOSED CHANNEL
- ST PROPOSED CULVERT OR STORM PIPE
- PROPOSED RIPRAP APRON
- PROPOSED SLOPE STABILIZATION
- PROPOSED LIMIT OF DISTURBANCE AND PERMIT BOUNDARY
- LS PROPOSED LEVEL SPREADER
- OCF PROPOSED ORANGE CONSTRUCTION FENCE
- IB PROPOSED ROCK CONSTRUCTION ENTRANCE
- INFILTRATION BERM
- SOIL BOUNDARY
- SOIL TYPE
- UD PROPOSED UNDERDRAIN
- PROPOSED EARTHEN BERM
- PROPOSED FILL FOUNDATION KEY
- PROPOSED INTERMEDIATE FILL KEY
- PROPOSED OUTLET DRAIN
- PROPOSED SUBSURFACE DRAIN

**CONSTRUCTION SEQUENCE**

1. LAYOUT THE LIMITS OF THE SITE AND ESTABLISH BENCHMARKS AND REFERENCE POINTS.
2. STAKE OUT THE LIMIT OF DISTURBANCE AS INDICATED ON THE PLANS.
3. INSTALL THE ROCK CONSTRUCTION ENTRANCE ALONG THE FIRST 100 FEET OF THE PROPOSED ACCESS ROAD.
4. INSTALL THE ORANGE CONSTRUCTION FENCE, COMPOST FILTER SOCKS, AND COMPOST FILTER SOCK SEDIMENT TRAPS AT THE LOCATIONS SHOWN ON THE PLAN. CLEAR AND GRUB ONLY THE AREAS NECESSARY FOR THEIR INSTALLATION.
5. CONSTRUCT CHANNEL BC AND THE SEDIMENT BASIN, INCLUDING RIPRAP APRON S, TEMPORARY AND PERMANENT OUTLET STRUCTURES, OUTLET PIPE, ANTI-SEEP COLLARS, STILLING BASIN, AND SPILLWAY. EXCAVATE THE 6,700 CUBIC YARDS OF MATERIAL NEEDED FOR CONSTRUCTION OF THE SEDIMENT BASIN FROM THE AREA IMMEDIATELY NORTH OF THE SEDIMENT BASIN, AS SHOWN ON THE PLANS. NOTE THAT CONSTRUCTION OF THE ANTI-SEEP COLLARS IS A CRITICAL STAGE OF CONSTRUCTION FOR WHICH THE ENGINEER OR THEIR DESIGNEE MUST BE PRESENT.
6. STRIP TOPSOIL WITHIN THE PROPOSED GRADING AREAS, AND STOCKPILE THE TOPSOIL AT THE LOCATIONS SHOWN. THE 6,700 CUBIC YARD BORROW AREA CREATED IN THE PREVIOUS STEP SHALL BE FILLED WITH TOPSOIL AND BROUGHT TO APPROXIMATE PRE-PROJECT CONTOURS.
7. BEGIN ROUGH GRADING OPERATIONS FOR THE ACCESS ROAD, CUT IN CHANNELS 1-5 AND INSTALL CULVERTS 1, 2, 4, AND 5 AND THE ASSOCIATED RIPRAP APRONS AND ROCK FILTERS CONCURRENTLY WITH CONSTRUCTION OF THE ACCESS ROAD. STABILIZE THE CHANNELS IMMEDIATELY UPON CONSTRUCTION. ADJUST AND/OR REESTABLISH THE ROCK CONSTRUCTION ENTRANCE AS NEEDED AS ACCESS ROAD GRADING PROGRESSES. CARE SHALL BE TAKEN NOT TO EXCESSIVELY COMPACT THE FUTURE AREA OF INFILTRATION ASSOCIATED WITH INFILTRATION BASIN 1 AND THE INFILTRATION BERM.
8. ONCE ROUGH GRADING OF THE ACCESS ROAD AND ASSOCIATED CHANNELS HAS BEEN COMPLETED, BEGIN EARTHWORK OPERATIONS TO CONSTRUCT THE WELL PAD, TANK PAD, INFILTRATION BASIN 1, INFILTRATION BERM, AND ALL REMAINING CHANNELS, CULVERTS, AND RIPRAP APRONS, AS WELL AS THE OUTLET STRUCTURE, OUTLET PIPE, ANTI-SEEP COLLARS, SPILLWAY, AND LEVEL SPREADER FOR INFILTRATION BASIN 1. NOTE THAT CONSTRUCTION OF THE ANTI-SEEP COLLARS IS A CRITICAL STAGE OF CONSTRUCTION FOR WHICH THE ENGINEER OR THEIR DESIGNEE MUST BE PRESENT. CUT AND FILL OPERATIONS SHALL BE CONTINUED UNTIL THE SITE IS BROUGHT TO APPROXIMATE FINISHED GRADE, AT WHICH TIME GRAVEL SHALL BE INSTALLED ON THE ACCESS ROAD, WELL PAD, AND TANK PAD TO PROVIDE A STABILIZED SURFACE.
9. PLACE TOPSOIL FROM THE STOCKPILES ON ALL DISTURBED AREAS AND SEED THESE AREAS. INSTALL EROSION CONTROL BLANKET OR HYDRAULICALLY APPLIED SLOPE STABILIZATION ON ALL SLOPES 3H:1V OR STEEPER.
10. AFTER 70% UNIFORM PERENNIAL VEGETATION IS ACHIEVED ON ALL DISTURBED AREAS, CONVERT THE SEDIMENT BASIN TO INFILTRATION BASIN 2 BY FOLLOWING THE STEPS OUTLINED ON DRAWING C908. SEED THE INSIDE OF INFILTRATION BASIN 2 WITH THE PC5M SEED MIXTURE SPECIFIED IN THE SITE STABILIZATION DETAIL.
11. AFTER 70% UNIFORM PERENNIAL VEGETATION IS ACHIEVED ON AREAS DISTURBED DURING THE PRECEDING STEP, REMOVE THE COMPOST FILTER SOCK AND COMPOST FILTER SOCK SEDIMENT TRAPS, AND IMMEDIATELY STABILIZE ANY DISTURBANCES ASSOCIATED WITH THEIR REMOVAL.

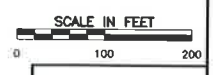
**EARTHWORK**

	CUT (CY)	FILL (CY)	NET (CY)
WELL PAD	80,800	77,700	3,100 CUT
WELL PAD ACCESS ROAD	3,100	1,300	1,800 CUT
TANK PAD	12,700	11,600	1,100 CUT
INFILTRATION BASIN 1	100	10,800	10,700 FILL
INFILTRATION BASIN 2	2,900	9,000	6,100 FILL
ON SITE BORROW PIT	6,700	0	6,700 CUT
<b>TOTAL</b>	<b>106,300</b>	<b>110,400</b>	<b>4,100 FILL</b>
TOPSOIL STOCKPILES	N/A	15,000	

NOTE: NUMBERS LISTED ABOVE ARE APPROXIMATE AND HAVE BEEN ADJUSTED USING 10" OF TOPSOIL AND 1.0' OF STONE ON THE PAD AND ACCESS ROADS. TOPSOIL DEPTH BASED ON AVERAGE TOPSOIL DEPTH OBSERVED DURING INFILTRATION TESTING. NO ADJUSTMENTS WERE MADE FOR SHRINK OR SWELL.

- REFERENCE**
1. EXISTING CONTOURS DERIVED FROM A BARE-EARTH DIGITAL ELEVATION MODEL, CONSTRUCTED FROM PANMAP LIGHT DETECTION AND RANGING (LIDAR) ELEVATION POINTS. TOPOGRAPHIC CONTOURS MAPPED AT AN INTERVAL OF 2 FEET; DEVELOPED BY PANMAP PROGRAM, PA DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES, BUREAU OF TOPOGRAPHIC AND GEOLOGIC SURVEY, DATED 2006.
  2. SURVEYED PROPERTY LINES AND EXISTING FEATURES IN THE VICINITY OF THE PROJECT AREA BASED ON SURVEY PERFORMED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. OCTOBER AND NOVEMBER 2017.
  3. TAX PARCEL LINES OBTAINED FROM ALLEGHENY COUNTY TAX PARCEL DATA
  4. STREAM AND WETLAND DELINEATION COMPLETED BY CEC, INC. ON 6/29/2017.

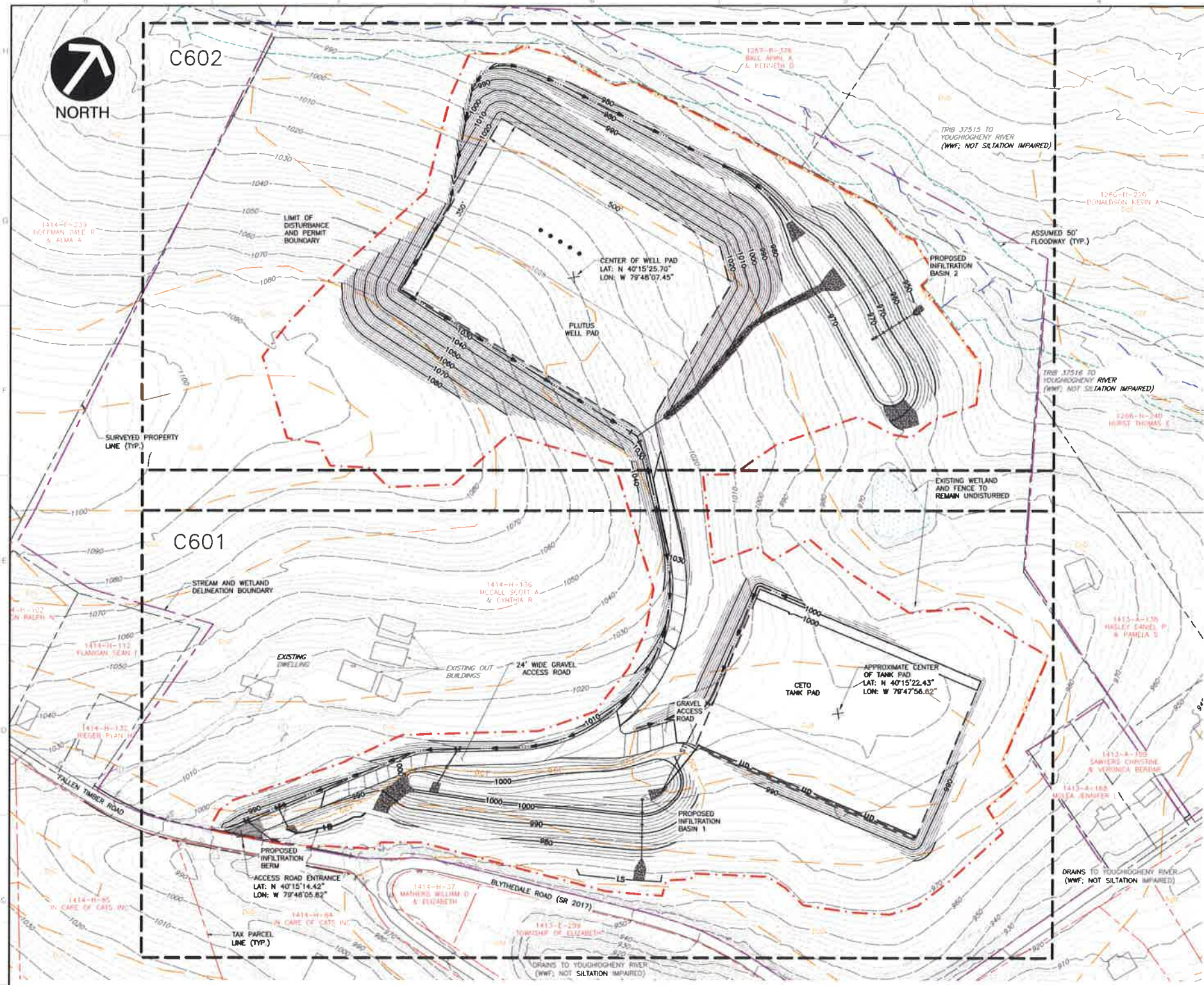
- GENERAL NOTES**
1. THIS PLAN IS FOR EROSION AND SEDIMENTATION CONTROL PURPOSES ONLY.
  2. EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE GENERAL AND ILLUSTRATIVE IN NATURE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING ON THIS PROJECT. IF CONDITIONS ENCOUNTERED DURING EXAMINATION ARE SIGNIFICANTLY DIFFERENT THAN THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
  3. THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COMPLYING WITH APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTORS TO INSTITUTE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
  4. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND OWNER'S REPRESENTATIVE FOR ANY AND ALL INJURIES AND/OR DAMAGES TO PERSONNEL, EQUIPMENT AND/OR EXISTING FACILITIES OCCURRING IN THE COURSE OF THE DEMOLITION AND CONSTRUCTION DESCRIBED IN THE PLANS.
  5. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES, OBTAIN ALL APPLICABLE PERMITS, AND PAY ALL REQUIRED FEES PRIOR TO BEGINNING WORK.
  6. THE CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THIS SET OF DOCUMENTS FULLY DEPICT ALL WORK ASSOCIATED WITH THE PROJECT.
  7. THE 100 YEAR FLOODWAY SHOWN ON THESE PLANS IS BASED ON THE PA CODE TITLE 25 CHAPTER 105 SECTION 1 FLOODWAY DEFINITION UNLESS NOTED OTHERWISE. CHAPTER 105 DEFINES THE FLOODWAY AS THE CHANNEL OF THE WATERCOURSE AND PORTIONS OF THE ADJOINING FLOODPLAINS WHICH ARE REASONABLY REQUIRED TO CARRY AND DISCHARGE THE 100-YEAR FREQUENCY FLOOD, UNLESS OTHERWISE SPECIFIED, THE BOUNDARY OF THE FLOODWAY IS NOT AVAILABLE ON MAPS AND FLOOD INSURANCE STUDIES PROVIDED BY FEMA. IT IS ASSUMED, ABSENT EVIDENCE TO THE CONTRARY, THAT THE FLOODWAY EXTENDS FROM THE STREAM TO 50 FEET FROM THE TOP OF BANK OF THE STREAM.
  8. IF COAL OR OTHER POTENTIALLY ACID-PRODUCING ROCK IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL REFER TO THE ACID PRODUCING ROCK MANAGEMENT PLAN.



**DRAFT**

<b>REVISION RECORD</b>	
NO. DATE DESCRIPTION	
1. 12/20/2017 177-308-9BCL	
<b>HUNTLEY &amp; HUNTLEY ENERGY EXPLORATION, LLC</b> <b>PLUTUS WELL PAD &amp; CETO TANK PAD</b> <b>ELIZABETH TOWNSHIP</b> <b>ALLEGHENY COUNTY, PENNSYLVANIA</b>	
<b>Civil &amp; Environmental Consultants, Inc.</b> 333 Baldwin Road - Pittsburgh, PA 15205 412-429-2324 - 800-365-2324 www.cecinc.com	
<b>OVERALL EROSION AND SEDIMENTATION CONTROL PLAN</b>	DATE: 12/20/2017 DRAWN BY: SCC DWG SCALE: 1"=100' CHECKED BY: SGB PROJECT NO: 177-308-9BCL APPROVED BY: HAND SIGNATURE ON FILE
DRAWING NO: <b>C900</b>	





**LEGEND**

1050	EXISTING INDEX CONTOUR	PROPOSED INDEX CONTOUR
---	EXISTING INTERMEDIATE CONTOUR	PROPOSED INTERMEDIATE CONTOUR
---	TAX PARCEL LINE	PROPOSED EDGE OF GRAVEL PAD
---	SURVEYED PROPERTY LINE	PROPOSED GRAVEL ACCESS ROAD
---	RIGHT-OF-WAY	PROPOSED TOP/BOTTOM OF BMP
---	EXISTING PAVED ROAD	PROPOSED WELL HEAD
---	EXISTING UNPAVED ROAD	PROPOSED ASPHALT PAVEMENT
---	EXISTING STREAM	PROPOSED COMPOST FILTER SOCK
---	EXISTING WETLAND	PROPOSED COMPOST FILTER SOCK TRAP
---	STREAM AND WETLAND DELINEATION BOUNDARY	PROPOSED CHANNEL
---	ASSUMED 50' FLOODWAY	PROPOSED CULVERT OR STORM PIPE
---	EXISTING WATER METER	PROPOSED RIPRAP APRON
---	EXISTING WATER VALVE	PROPOSED LIMIT OF DISTURBANCE AND PERMIT BOUNDARY
---	EXISTING OVERHEAD WIRE	PROPOSED LEVEL SPREADER
---	EXISTING UTILITY POLE	IB
---	EXISTING ELECTRIC METER	INFILTRATION BERM
---	EXISTING STORM INLET	SOIL BOUNDARY
---	EXISTING STORM MANHOLE	UD
---	EXISTING CULVERT OR STORM PIPE	PROPOSED UNDERDRAIN
---	EXISTING SEPTIC TANK	PROPOSED EARTHEN BERM
---	EXISTING GAS METER	PROPOSED FILL FOUNDATION KEY
---	EXISTING BUILDING	PROPOSED INTERMEDIATE FILL KEY
---	EXISTING FENCE	PROPOSED OUTLET DRAIN
---	EXISTING MAILBOX	PROPOSED SUBSURFACE DRAIN
---	EXISTING SIGN	

**REVISION RECORD**

NO.	DATE	DESCRIPTION
1	08/29/2017	ISSUED IN ACCORDANCE WITH DPE COMMENTS RECEIVED 8/29/17

**CEC**  
**Civil & Environmental Consultants, Inc.**  
 333 Baldwin Road - Pittsburgh, PA 15205  
 412-429-2324 - 800-365-2324  
 www.cecinc.com

**HUNTLEY & HUNTLEY ENERGY EXPLORATION, LLC**  
**PLUTUS WELL PAD & CETO TANK PAD**  
**ELIZABETH TOWNSHIP**  
**ALLEGHENY COUNTY, PENNSYLVANIA**

**OVERALL POST CONSTRUCTION STORMWATER MANAGEMENT PLAN**  
 DATE: 12/20/2017 DRAWN BY: SCC  
 DWS SCALE: AS SHOWN CHECKED BY: SGB  
 PROJECT NO: 173-305  
 APPROVED BY: HAND SIGNATURE ON FILE  
 #BCL

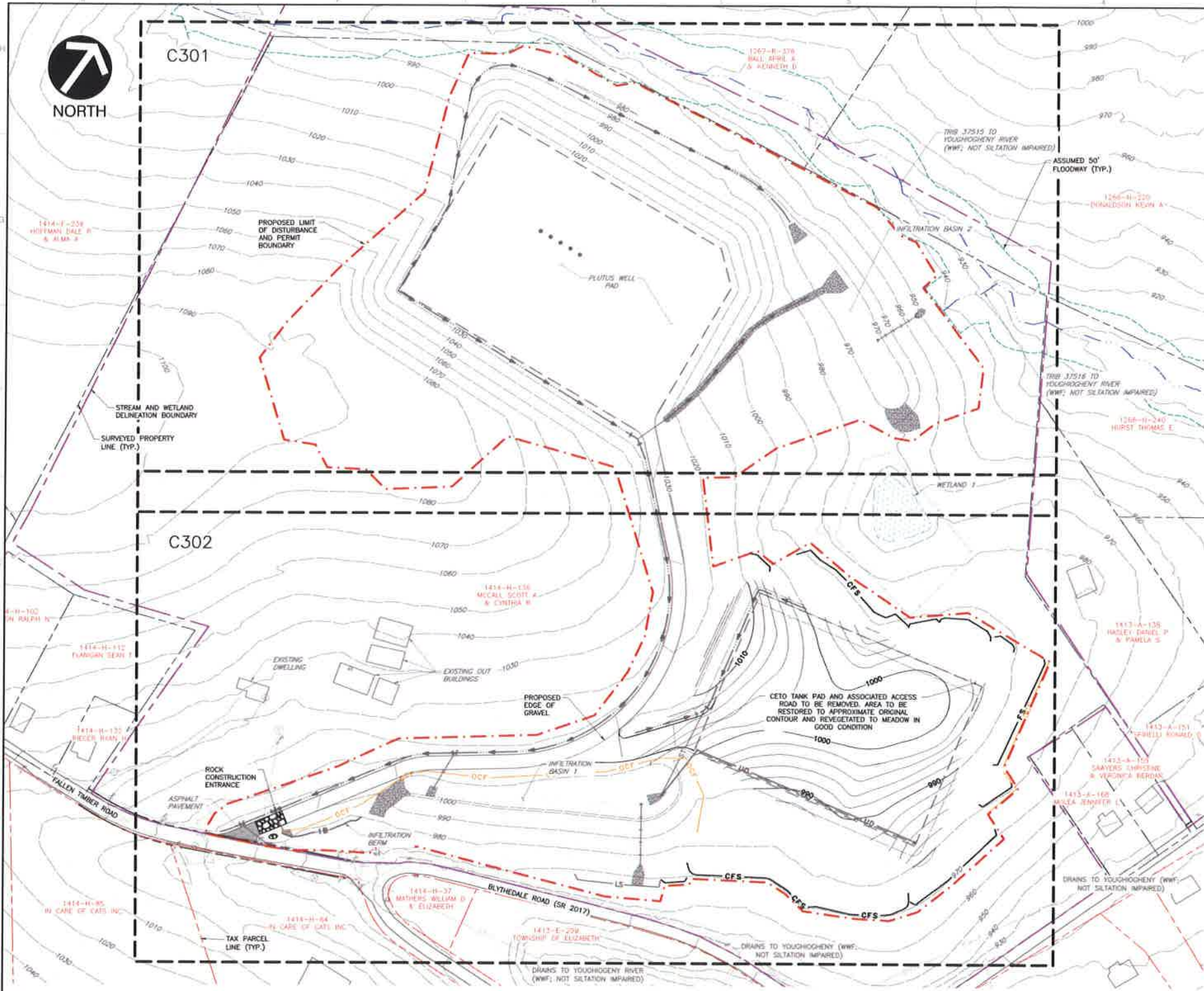
- CRITICAL PCSM STAGES:**
- THE FOLLOWING IS THE CRITICAL STAGE FOR THE IMPLEMENTATION OF PCSM BMPs FOR WHICH A LICENSED PROFESSIONAL OR THEIR DESIGNEE SHALL BE PRESENT:
1. CONSTRUCTION OF THE SEDIMENT BASIN, INCLUDING THE INSTALLATION OF ANTI-SEEP COLLARS. REFER TO THE 0300 SERIES DRAWINGS FOR MORE INFORMATION REGARDING SEDIMENT BASIN INSTALLATION.
  2. CONSTRUCTION OF INFILTRATION BASIN 1, INCLUDING INSTALLATION OF ANTI-SEEP COLLARS.
  3. CONSTRUCTION OF THE INFILTRATION BERM.
  4. CONVERSION OF THE SEDIMENT BASIN TO INFILTRATION BASIN 2.

- REFERENCE**
1. EXISTING CONTOURS DERIVED FROM A BARE-EARTH DIGITAL ELEVATION MODEL CONSTRUCTED FROM PAMAP LIDAR (LIGHT DETECTION AND RANGING) ELEVATION POINTS, TOPOGRAPHIC CONTOURS MAPPED AT AN INTERVAL OF 2 FEET; DEVELOPED BY PAMAP PROGRAM, PA DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES, BUREAU OF TOPOGRAPHIC AND GEOLOGIC SURVEY, DATED 2006.
  2. SURVEYED PROPERTY LINES AND EXISTING FEATURES IN THE VICINITY OF THE PROJECT AREA BASED ON SURVEY PERFORMED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. OCTOBER AND NOVEMBER 2017.
  3. TAX PARCEL LINES OBTAINED FROM ALLEGHENY COUNTY TAX PARCEL DATA.
  4. STREAM AND WETLAND DELINEATION COMPLETED BY CEC, INC. ON 8/29/2017.

SCALE IN FEET  
 0 100 200  
**DRAFT**

DRAWING NO: **C600**





LEGEND

- 1050 --- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- TAX PARCEL LINE
- SURVEYED PROPERTY LINE
- RIGHT-OF-WAY
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- EXISTING GAS METER
- EXISTING BUILDING
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- GRAVEL ACCESS ROAD
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- CFS --- PROPOSED COMPOST FILTER SOCK TRAP
- CHANNEL
- ST --- CULVERT OR STORM PIPE
- RIPRAP APRON
- 1050 --- PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- FS --- PROPOSED COMPOST FILTER SOCK
- PROPOSED LIMIT OF DISTURBANCE AND PERMIT BOUNDARY
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- IB --- INFILTRATION BERM

CONSTRUCTION SEQUENCE

1. LAYOUT THE LIMITS OF THE CONSTRUCTION SITE AND ESTABLISH BENCHMARKS AND REFERENCE POINTS.
2. STAKE OUT THE LIMIT OF DISTURBANCE AS INDICATED ON THE PLANS.
3. IF THE ROCK CONSTRUCTION ENTRANCE WAS PREVIOUSLY REMOVED, REINSTALL IT IN ACCORDANCE WITH THE DETAIL PROVIDED. IF IT IS STILL IN PLACE, MAINTENANCE SHALL BE PERFORMED TO RESTORE ITS FUNCTIONALITY.
4. INSTALL THE ORANGE CONSTRUCTION FENCE, COMPOST FILTER SOCKS, AND COMPOST FILTER SOCK SEDIMENT TRAPS AT THE LOCATIONS SHOWN ON THE PLAN. IF THESE FEATURES ARE STILL IN PLACE FROM THE ORIGINAL CONSTRUCTION OF THE SITE, THEY MUST BE INSPECTED AND MAINTENANCE MUST BE PERFORMED AS NEEDED TO RESTORE THEIR FUNCTIONALITY.
5. PERFORM THE GRADING REQUIRED TO REMOVE THE TANK PAD AND ASSOCIATED ACCESS ROAD, AND RETURN THE AREA TO APPROXIMATE PRE-PROJECT CONTOURS.
6. MODIFYING THE OUTLET STRUCTURE OF INFILTRATION BASIN 1 IN ACCORDANCE WITH THE DIRECTION PROVIDED ON THE SITE RESTORATION PLAN DRAWINGS.
7. SPREAD TOPSOIL OVER ALL DISTURBED AREAS, AND SEED AND STABILIZE NEWLY TOPSOILED AREAS.
8. AFTER 70% UNIFORM PERENNIAL VEGETATION IS ACHIEVED, REMOVE THE ORANGE CONSTRUCTION FENCE, COMPOST FILTER SOCK, AND COMPOST FILTER SOCK SEDIMENT TRAPS, AND IMMEDIATELY STABILIZE ANY DISTURBANCES ASSOCIATED WITH THEIR REMOVAL.

REFERENCE

1. EXISTING CONTOURS DERIVED FROM A BARE-EARTH DIGITAL ELEVATION MODEL CONSTRUCTED FROM PAMAP LIDAR (LIGHT DETECTION AND RANGING) ELEVATION POINTS. TOPOGRAPHIC CONTOURS MAPPED AT AN INTERVAL OF 2 FEET; DEVELOPED BY PAMAP PROGRAM, PA DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES, BUREAU OF TOPOGRAPHIC AND GEOLOGIC SURVEY, DATED 2006.
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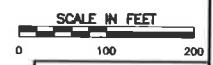
NO.	DATE	DESCRIPTION

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**PLUTUS WELL PAD & CETO TANK PAD**  
 ELIZABETH TOWNSHIP  
 ALLEGHENY COUNTY, PENNSYLVANIA

OVERALL  
 SITE RESTORATION PLAN

DATE:	12/20/2017	DRAWN BY:	SGC
DWG SCALE:	1"=100'	CHECKED BY:	SGB
PROJECT NO.:	175-305	APPROVED BY:	49CL
APPROVED BY:	HAND SIGNATURE ON FILE		



DRAFT

DRAWING NO: C300

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