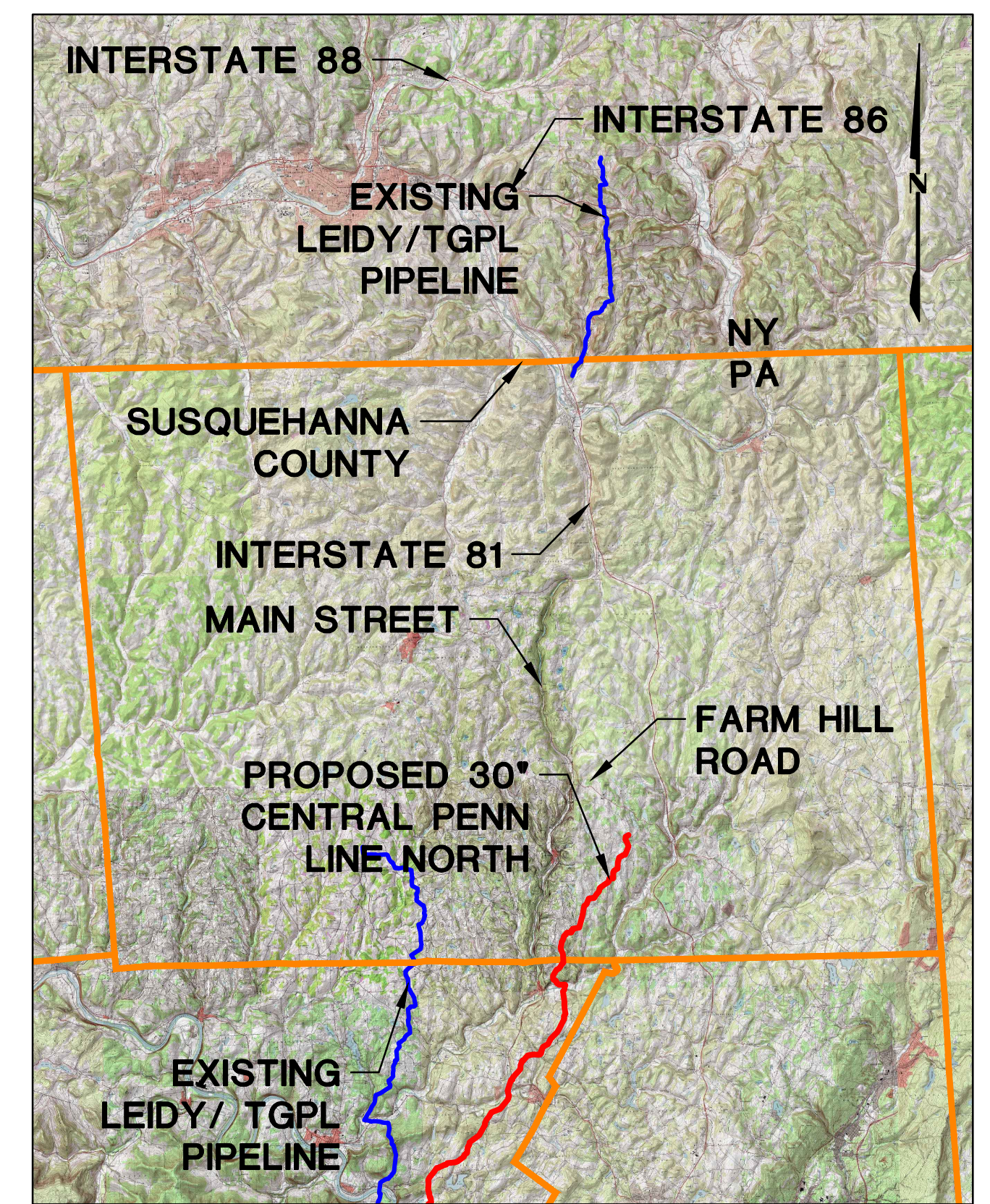
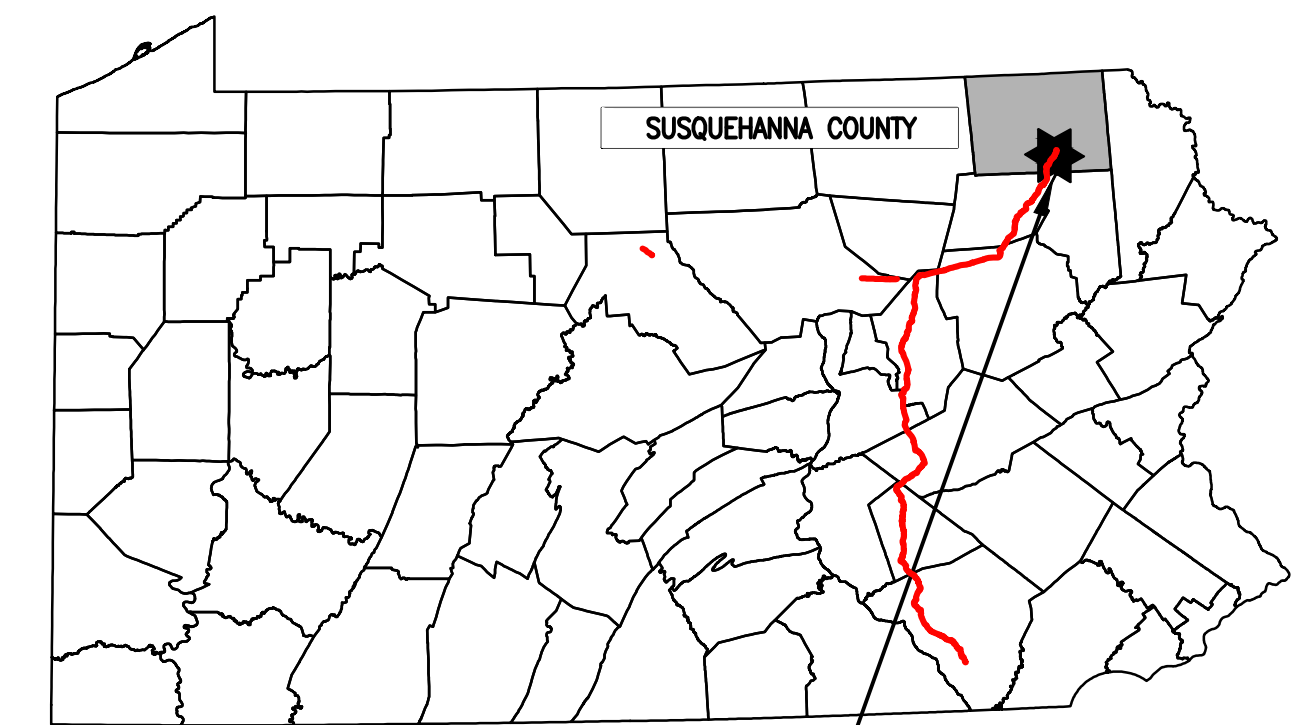


TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC SOIL EROSION & SEDIMENT CONTROL PLAN / SITE RESTORATION PLAN ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH

LENOX TOWNSHIP
SUSQUEHANNA COUNTY
PENNSYLVANIA



USGS YOUNG WOMAN'S CREEK AND LENOXVILLE QUADRANGLE
VICINITY MAP
SCALE: 1"=30,000'



| FACILITY NAME &/OR TYPE | DRAWING NO. | PHASE | SHEET NO. | DRAWING NAME |
|-------------------------|--|-------|--------------------------|--|
| GENERAL OVERALL | 24-1601-70-28-A/1683_3 <i>REVISED</i> | N/A | 1 of 2 <i>REVISED</i> | COVER SHEET |
| | | | 2 of 2 <i>REVISED</i> | LOCATION MAP AND PLAN SHEET INDEX |
| ALIGNMENT SHEETS | 24-1601-70-28-A/1683_3 <i>REVISED</i> | 2 | 1 of 7 <i>REVISED</i> | SOIL EROSION AND SEDIMENT CONTROL PLAN / SITE RESTORATION PLAN |
| | | | 2 of 7 <i>REVISED</i> | SOIL EROSION AND SEDIMENT CONTROL PLAN / SITE RESTORATION PLAN |
| | | | 3 of 7 <i>REVISED</i> | SOIL EROSION AND SEDIMENT CONTROL PLAN / SITE RESTORATION PLAN |
| | | | 4 of 7 <i>REVISED</i> | SOIL EROSION AND SEDIMENT CONTROL PLAN / SITE RESTORATION PLAN |
| | | | 5 of 7 <i>REVISED</i> | SOIL EROSION AND SEDIMENT CONTROL PLAN / SITE RESTORATION PLAN |
| | | | 6 of 7 <i>REVISED</i> | SOIL EROSION AND SEDIMENT CONTROL PLAN / SITE RESTORATION PLAN |
| | | | 7 of 7 <i>REVISED</i> | SOIL EROSION AND SEDIMENT CONTROL PLAN / SITE RESTORATION PLAN |
| CN-CSA-SU-1-007 | 24-1601-70-28-A/1683_3- CSA-CN-CSA-SU-1-007 | 2 | 1 of 2 | SOIL EROSION & SEDIMENT CONTROL PLAN |
| | | | 2 of 2 | SITE RESTORATION PLAN |
| CN-CSA-SU-1-008 | 24-1601-70-28-A/1683_3- CSA-CN-CSA-SU-1-008 | 2 | 1 of 2 | SOIL EROSION & SEDIMENT CONTROL PLAN |
| | | | 2 of 2 | SITE RESTORATION PLAN |

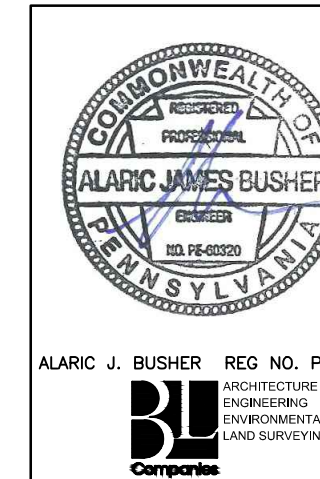
* REFER TO BEST MANAGEMENT PRACTICES AND QUANTITIES PLAN SET FOR NOTES AND DETAILS

| SOIL INFORMATION | |
|------------------|--|
| MAP UNIT NAME | MAP UNIT DESIGNATION |
| Bc | BASHER SILT LOAM |
| BD2 | BATH FLAGGY LOAM, 20 TO 30 PERCENT SLOPES, MODERATELY ERODED |
| BsD | BATH VERY STONY LOAM, 12 TO 30 PERCENT SLOPES |
| LkB2 | LORDSTOWN AND OQUAGA CHANNERY SILT LOAMS, 3 TO 12 PERCENT SLOPES, MODERATELY ERODED |
| LkC2 | LORDSTOWN AND OQUAGA CHANNERY SILT LOAMS, 12 TO 20 PERCENT SLOPES, MODERATELY ERODED |
| LoB | LORDSTOWN AND OQUAGA FLAGGY SILT LOAMS, 3 TO 12 PERCENT SLOPES |
| LoC2 | LORDSTOWN AND OQUAGA FLAGGY SILT LOAMS, 12 TO 20 PERCENT SLOPES, MODERATELY ERODED |
| LsD | LORDSTOWN AND OQUAGA VERY STONY SILT LOAMS, 12 TO 30 PERCENT SLOPES |
| MgB2 | MARDIN CHANNERY SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED |
| McC2 | MARDIN CHANNERY SILT LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED |
| MIC2 | MARDIN FLAGGY SILT LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED |
| MgB | MARDIN VERY STONY SILT LOAM, 0 TO 8 PERCENT SLOPES |
| MgD | MARDIN VERY STONY SILT LOAM, 8 TO 25 PERCENT SLOPES |
| Mn | MIXED ALLUVIAL LAND |
| MoB2 | MORRIS CHANNERY SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED |
| MoC2 | MORRIS CHANNERY SILT LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED |
| MmB2 | MORRIS FLAGGY SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED |
| MmC2 | MORRIS FLAGGY SILT LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED |
| VgB2 | VOLUSIA CHANNERY SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED |
| VgC2 | VOLUSIA CHANNERY SILT LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED |
| VgD2 | VOLUSIA CHANNERY SILT LOAM, 15 TO 25 PERCENT SLOPES, MODERATELY ERODED |
| VIB | VOLUSIA FLAGGY SILT LOAM, 3 TO 8 PERCENT SLOPES |
| VIC | VOLUSIA FLAGGY SILT LOAM, 8 TO 15 PERCENT SLOPES |
| VsB | VOLUSIA VERY STONY SILT LOAM, 0 TO 8 PERCENT SLOPES |
| WeB2 | WELLSBORO CHANNERY SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED |
| WeC2 | WELLSBORO CHANNERY SILT LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED |
| WeD2 | WELLSBORO CHANNERY SILT LOAM, 15 TO 25 PERCENT SLOPES, MODERATELY ERODED |
| WIB2 | WELLSBORO FLAGGY SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED |
| WIC2 | WELLSBORO FLAGGY SILT LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED |
| WID2 | WELLSBORO FLAGGY SILT LOAM, 15 TO 25 PERCENT SLOPES, MODERATELY ERODED |
| Wsb | WOOSTER AND CANFIELD VERY STONY LOAMS, 0 TO 12 PERCENT SLOPES |
| Wsd | WELLSBORO VERY STONY SILT LOAM, 8 TO 25 PERCENT SLOPES |
| Wy | WYALUSING SILT LOAM |



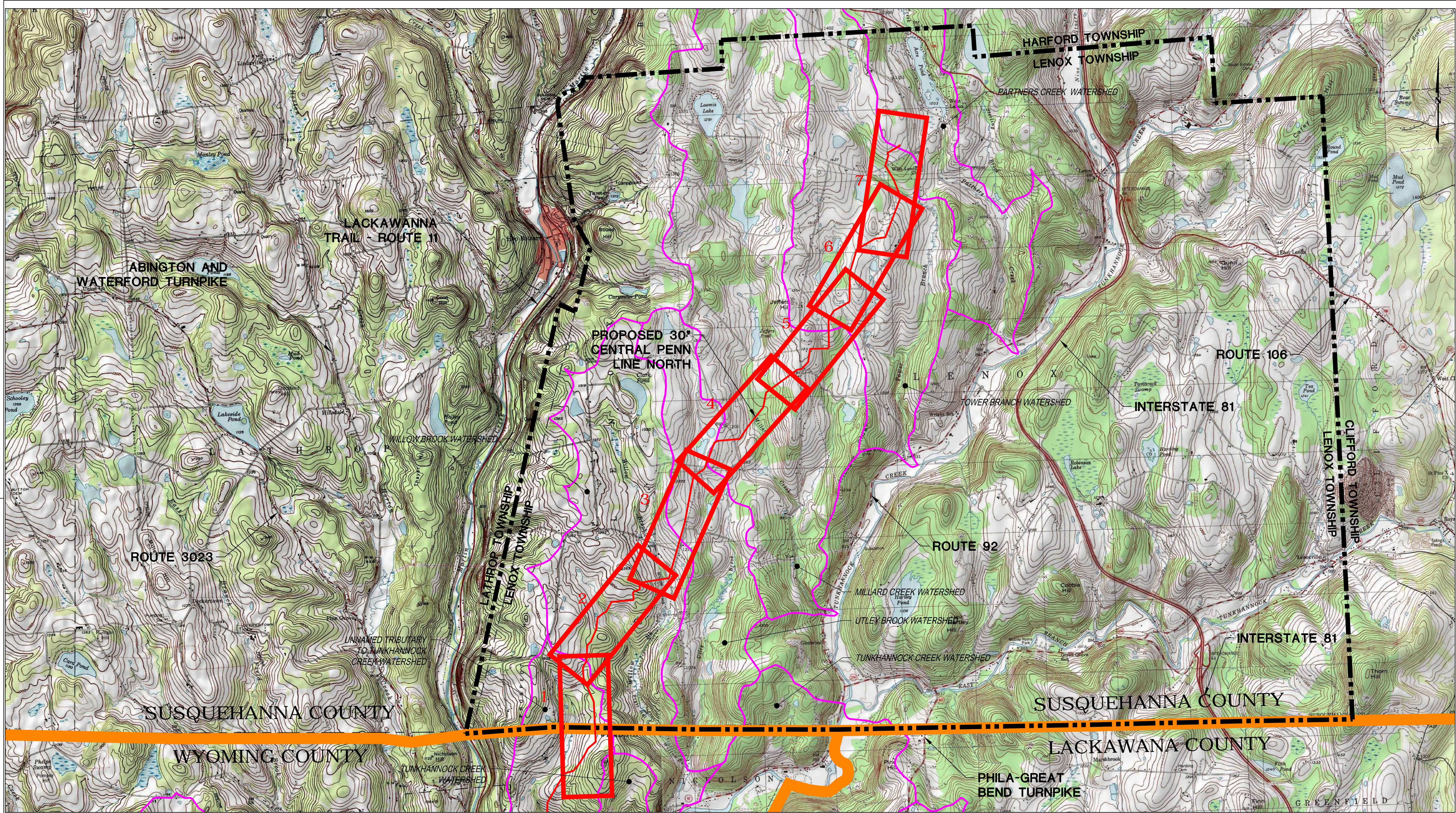
PENNSYLVANIA ACT 287 (1974)
AS AMENDED BY PENNSYLVANIA
ACT 199 (2004) REQUIRES NO
LESS THAN THREE (3) WORKING
DAYS AND NO MORE THAN (10)
WORKING DAYS NOTICE TO
UTILITIES BEFORE YOU EXCAVATE,
DRILL, BLAST OR DEMOLISH.

ENGINEER OF RECORD
BL COMPANIES
4242 CARLISLE PIKE, SUITE 260
CAMP HILL, PA 17011
P:717-651-9850
F:717-651-9858



| REVISIONS | | | | | | |
|-----------|------------|----|--|-----------|------|------|
| NO. | DATE | BY | DESCRIPTION | W.D. NO. | CHK. | APP. |
| 0 | 08/26/2015 | BL | ISSUED FOR PADEP SUBMITTAL | W01161481 | DAK | AJB |
| 1 | 12/02/2015 | BL | ISSUED FOR PADEP RESUBMITTAL | W01161481 | DAK | AJB |
| 2 | Oct. 2016 | BL | PADEP TECHNICAL DEFICIENCY RESPONSE #1 | W01161481 | DAK | AJB |
| 3 | April 2017 | BL | PADEP TECHNICAL DEFICIENCY RESPONSE #2 | W01161481 | DAK | AJB |
| 4 | AUG. 2017 | BL | PADEP TECHNICAL DEFICIENCY RESPONSE #3 | W01161481 | DAK | AJB |

| | | | | | | |
|--|-----------|-------|------------|--------------------------|------------------------|--------------|
| TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC SOIL EROSION & SEDIMENT CONTROL PLAN / SITE RESTORATION PLAN ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH COVER SHEET SUSQUEHANNA COUNTY, PENNSYLVANIA | | | | | | |
| DRAWN BY: | TLD | DATE: | 11/2014 | ISSUED FOR BID: | SCALE: | NONE |
| CHECKED BY: | JLK | DATE: | 03/13/2015 | ISSUED FOR CONSTRUCTION: | REVISION: | 4 |
| APPROVED BY: | AJB | DATE: | 03/13/2015 | DRAWING NUMBER: | 24-1601-70-28-A/1683_3 | SHEET 1 OF 2 |
| W.D.: | W01161481 | | | | | |



Drawn By & Date/Time: TDelo Jul 27, 2017 - 8:38am
 Drawing Location & Name: G:\JOBS\14\14C\14C4909\DWG\010-CPLN\PL_CV14C4909(10)_ES-SUS.dwg

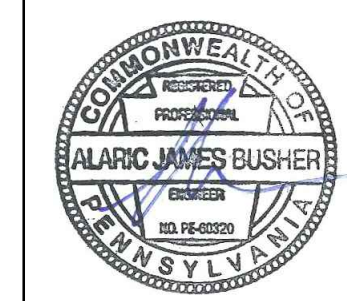
LEGEND

- SHEET INDEX TILE (# OF 7)
- WATERSHED BOUNDARY
- TOWNSHIP LINE
- COUNTY LINE
- PROPOSED 30° CENTRAL PENN LINE NORTH



PENNSYLVANIA ACT 287 (1974)
 AS AMENDED BY PENNSYLVANIA
 ACT 199 (2004) REQUIRES NO
 LESS THAN THREE (3) WORKING
 DAYS AND NO MORE THAN (10)
 WORKING DAYS NOTICE TO
 UTILITIES BEFORE YOU EXCAVATE,
 DRILL, BLAST OR DEMOLISH.

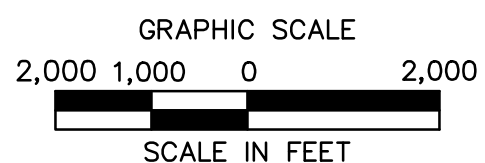
ENGINEER OF RECORD
 BL COMPANIES
 4242 CARLISLE PIKE, SUITE 260
 CAMP HILL, PA 17011
 P:717-651-9850
 F:717-651-9858



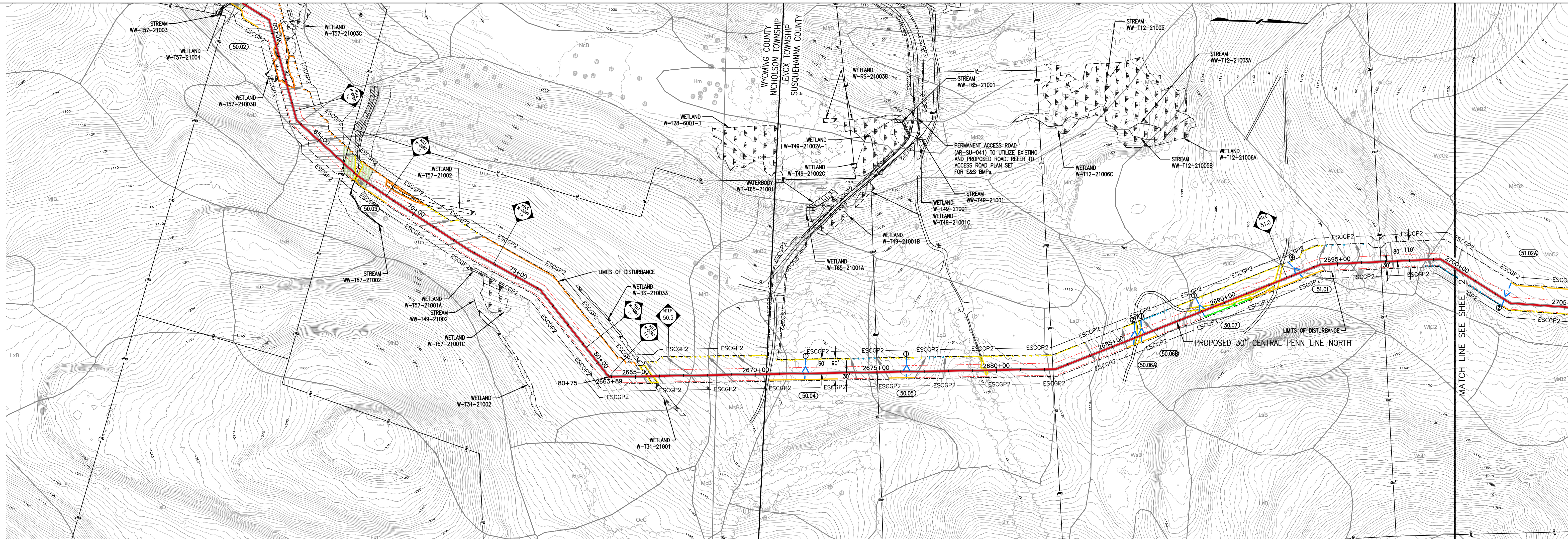
ALARIC J. BUSHER REG. NO. PE 60320
 ARCHITECTURE
 ENGINEERING
 ENVIRONMENTAL
 LAND SURVEYING

| REVISIONS | | | | | | |
|-----------|------------|----|--|-----------|------|------|
| NO. | DATE | BY | DESCRIPTION | W.O. NO. | CHK. | APP. |
| 0 | 08/28/2015 | BL | ISSUED FOR PADEP SUBMITTAL | W01161481 | DAK | AJB |
| 1 | 12/02/2015 | BL | ISSUED FOR PADEP RESUBMITTAL | W01161481 | DAK | AJB |
| 2 | Oct. 2016 | BL | PADEP TECHNICAL DEFICIENCY RESPONSE #1 | W01161481 | DAK | AJB |
| 3 | April 2017 | BL | PADEP TECHNICAL DEFICIENCY RESPONSE #2 | W01161481 | DAK | AJB |
| 4 | AUG. 2017 | BL | PADEP TECHNICAL DEFICIENCY RESPONSE #3 | W01161481 | DAK | AJB |

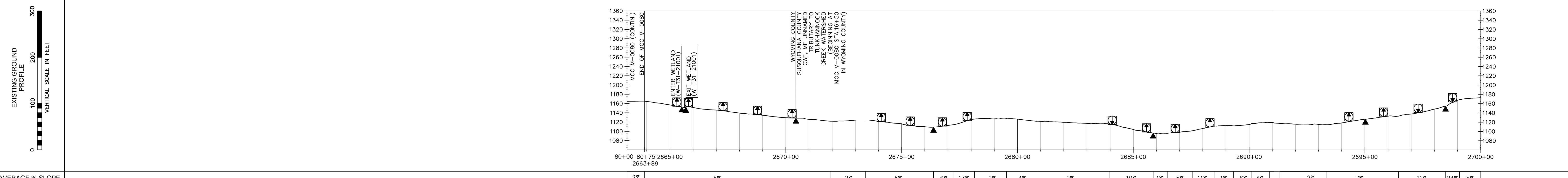
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|--|-----------|-----------------|------------------------|
| TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC | | | |
| SOIL EROSION & SEDIMENT CONTROL PLAN / SITE RESTORATION PLAN | | | |
| ATLANTIC SUNRISE PROJECT | | | |
| PROPOSED 30° CENTRAL PENN LINE NORTH | | | |
| LOCATION MAP AND PLAN INDEX SHEET | | | |
| SUSQUEHANNA COUNTY, PENNSYLVANIA | | | |
| DRAWN BY: | TLD | DATE: | 11/2014 |
| CHECKED BY: | JLK | DATE: | 03/13/2015 |
| APPROVED BY: | AJB | DATE: | 03/13/2015 |
| W.O. NUMBER: | W01161481 | DRAWING NUMBER: | 24-1601-70-28-A/1683_3 |
| SCALE: 1" = 2,000' | | | SHEET 2 OF 2 |



NICHOLSON TOWNSHIP / LENOX TOWNSHIP



| LAND USE | 21 | 5 | 21 | 41 | 21 | 41 | 14 | 41 | 43 | 99 | 41 | 21 |
|--|-----|-----|-----|------|------|-----|-----|-----|------|------|------|------|
| SOIL TYPE | VcC | MrB | McB | McB2 | LxB2 | LoB | LsD | WsD | WIC2 | MoC2 | WeD2 | MoC2 |
| E & S DETAIL: (DP) OR (SP) DETAIL GROUP: | | | | | | | | | | | | |



| AVERAGE % SLOPE | 2% | 5% | 2% | 5% | 6% | 13% | 2% | 4% | 2% | 10% | 1% | 5% | 11% | 1% | 6% | 4% | 2% | 7% | 11% | 24% | 5% |
|-----------------|----|----|----|----|----|-----|----|----|----|-----|----|----|-----|----|----|----|----|----|-----|-----|----|
|-----------------|----|----|----|----|----|-----|----|----|----|-----|----|----|-----|----|----|----|----|----|-----|-----|----|

EROSION CONTROL LEGEND

| WATERBAR SPACING | TRENCH PLUG SPACING | WATERBARS (SEE GENERAL NOTE 3) | PROPOSED PIPELINE |
|------------------------|------------------------|---|----------------------------------|
| SLOPE (%) SPACING (FT) | SLOPE (%) SPACING (FT) | PERMANENT TRENCH PLUG | ESCOP2 |
| <5 200 | <5 1000 | PERMANENT TRENCH PLUG | EXISTING LEADY/TGPL PIPELINES |
| 5-15 150 | 5-15 500 | EXCAVATED DIVERSION SWALE | FOREIGN PIPELINE |
| 15-25 100 | 15-25 300 | FILTER SOCK DIVERSION SWALE | LIMITS OF DISTURBANCE (LOD) |
| >25 50 | >25 100 | TEMPORARY DIVERSION SWALE ID | 50' PROPOSED PERMANENT EASEMENT |
| >30 50 | 35-100 100 | 12" SEDIMENT BARRIER | 10' PERMANENT MAINTENANCE |
| | | 18" SEDIMENT BARRIER | PROPERTY LINE |
| | | 24" SEDIMENT BARRIER | PROPOSED COMPRESSOR STATION |
| | | 32" SEDIMENT BARRIER | FLOODWAY/FLOODPLAIN LINE |
| | | RIPIRAP APRON AT EXCAVATED DIVERSION SWALE OR FILTER SOCK DIVERSION SWALE DISCHARGING TO WETLAND OR WATERBODY | RIPIRAP BUFFER |
| | | TEMPORARY PIPE AND LEVEL SPREADER OR OUTLET BASIN (SEE BMP NOTE 2) | DELIMITED WATERWAY (TOP OF BANK) |
| | | NUMBER OF 12" OR 18" TEMPORARY PIPES (SEE BMP NOTE 3) | DELIMITED WATERBODY |
| | | BORE/RECEIVING PIT | EXISTING TREELINE |
| | | NRCS SOILS BOUNDARY | EXISTING TREE/SHRUB |
| | | STABILIZED CONSTRUCTION ENTRANCE | EXISTING UTILITY POLE |
| | | EROSION CONTROL BLANKET (SEE GENERAL NOTE #9) | EXISTING UTILITY TOWER |
| | | RIPIRAP REPLANTING AREAS | EXISTING GAS UTILITY |
| | | | EXISTING FENCE |
| | | | PROPOSED FENCE |
| | | | EXISTING MINOR CONTOUR |
| | | | EXISTING MAJOR CONTOUR |

E & S DETAIL GROUP LEGEND FOR PIPELINE CROSSINGS

TYPICAL WATERSHED

SPECIAL PROTECTION WATERSHED

GENERAL E&S FIGURES

ROADS

RAILROADS

WETLANDS

WATERBODIES

WETLAND/WATERBODIES

GENERAL E&S FIGURES

ROADS

RAILROADS

WETLANDS

WATERBODIES

WETLAND/WATERBODIES

GENERAL NOTES

- THE E&S DETAIL NUMBERS NOTED ABOVE AND IN THE E&S DETAIL GROUP LEGEND CORRESPOND TO SPECIFIC DETAILS THAT ARE COMPRISED OF PADEP APPROVED BEST MANAGEMENT PRACTICES (BMP) AND SUPPLEMENTAL CONSTRUCTION DETAILS TO BE FOLLOWED AND/OR INSTALLED DURING CONSTRUCTION OF THE PIPELINE.
- SOILS LEGEND PROVIDED IN THE SOIL EROSION AND SEDIMENT CONTROL NARRATIVE.
- A SUMP SHALL BE INSTALLED AT THE END OF EACH WATERBAR. REFER TO THE BEST MANAGEMENT PRACTICES AND QUANTITIES PLAN SET FOR INSTALLATION.
- WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FT OFFSET MEASURED LATEROALLY FROM THE PHYSICAL WATERBODY TOP OF BANK.
- CONTRACTOR TO SEGREGATE TOPSOILS IN ALL AGRICULTURAL, RESIDENTIAL AND WETLAND USE AREAS. THE EXISTING SUBGRADE SHALL BE SCARIFIED PRIOR TO TOPSOIL PLACEMENT IN ALL AREAS.
- REFER TO ACID PRODUCING SOILS AND BEDROCK CONTROL PLANS FOR MITIGATION MEASURES OF SOILS WITH A pH BELOW 4.0.
- PROPOSED CLEAN WATER CROSSING SHOWN HEREIN ARE TEMPORARY STORMWATER RUNOFF CONVEYANCE BMPs ASSOCIATED WITH THE CHAPTER 102 ESCOP-2 APPLICATION. NO FLOWS FROM REGULATED WATERWAYS ARE INTENDED TO BE CONVEYED WITHIN THESE BMPs.
- DURING THE CONSTRUCTION PHASE, IF SHALLOW BEDROCK IS PRESENT, THEN THE PIPELINE WILL BE INSTALLED THROUGH THE WATERBODY WITH A MINIMUM OF 2 FOOT OF COVER, AS THE REQUIRED 5 FOOT OF MINIMUM COVER WILL NOT BE FEASIBLE.
- EROSION CONTROL BLANKETS SHALL BE INSTALLED ON SLOPES 3:1 OR GREATER, WITHIN 50 FEET OF A NON-HQ/EV WETLAND OR WETLAND, AND WITHIN 100 FEET OF A HQ/EV STREAM OR WETLAND. REFER TO SHADED SECTIONS OF PROFILE SLOPE BAND FOR APPROXIMATE LOCATION OF EROSION CONTROL BLANKET AREAS.
- ACCESS ROAD AND FACILITY RCEs SHOWN FOR COORDINATION PURPOSES. SEE ACCESS ROAD AND FACILITY PLAN SETS FOR ADDITIONAL INFORMATION.

LAND USE LEGEND

| | |
|--|--|
| 5 - OPEN WATER | 41 - DECIDUOUS FOREST LAND |
| 11 - RESIDENTIAL | 42 - EVERGREEN FOREST LAND |
| 14 - TRANSPORTATION, UTILITY, AND COMMUNICATIONS | 43 - MIXED FOREST LAND |
| 15 - INDUSTRIAL AND COMMERCIAL | 44 - FORESTED/CULTIVATED TIMBER OR FOREST LAND |
| 21 - CROPLAND AND PASTURE | 55 - RIVERS |
| 22 - ORCHARDS, GROVES, VINEYARDS, NURSERIES | 74 - BARE EXPOSED ROCK |
| 25 - HAY FIELDS | 75 - STRIP MINES, QUARRIES, AND GRAVEL |
| 32 - SHRUB AND BRUSH RANGELAND | 99 - HERBACEOUS OPENINGS |

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC
SOIL EROSION & SEDIMENT CONTROL PLAN / SITE RESTORATION PLAN
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
MOC M-080 M.P. 1.52 TO M.P. 51.14
SUSQUEHANNA COUNTY, PENNSYLVANIA

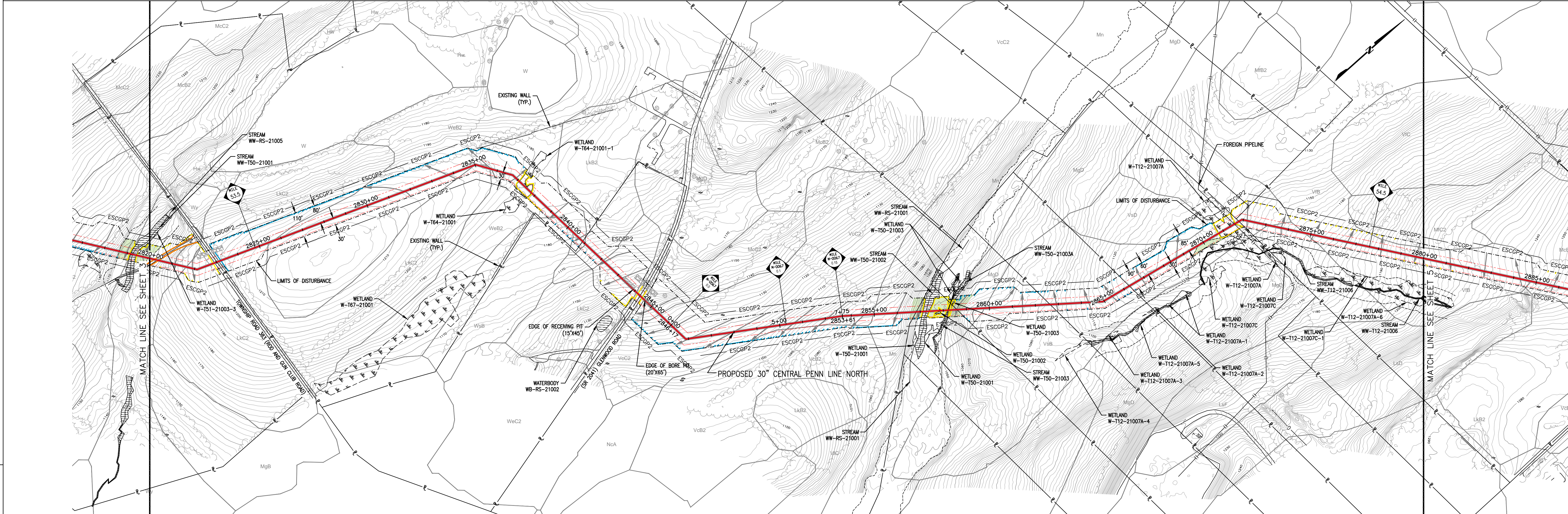
Williams

DRWN BY: JMD DATE: 11/14/14 ISSUED FOR BID: SCALE: AS NOTED
CHECKED BY: BDK DATE: 03/13/2015 ISSUED FOR CONSTRUCTION: REVISION: 3
APPROVED BY: AJB DATE: 03/13/2015 DRAWING NUMBER: 24-1601-70-28-A/1683_3 SHEET 1 OF 7
WO: W01161481

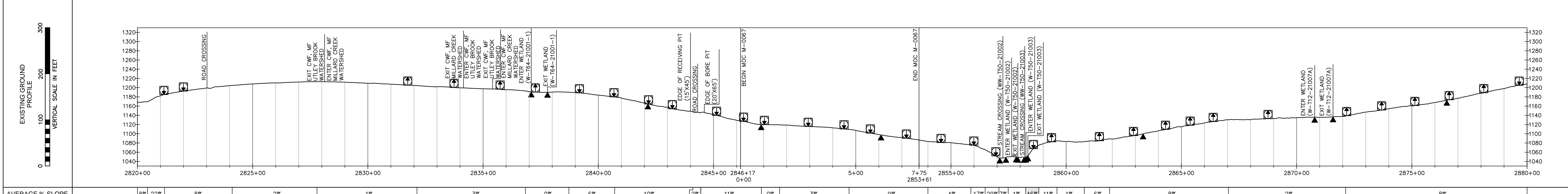
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 Drawing Location & Name: G:\008314\140140909\010-CPLAN\PL_P1404909(10)_ES_CUTSHEETS-004-SUS.dwg

| | | | | | | | | | | | |
|-----------|---------------------------------------|--|---------------------------------------|---------------------------------------|--|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| OWNERSHIP | PA-SU-018.000 241.00-2,028.00,000. | TOWNSHIP ROAD 383 (ROD AND GUN CLUB ROAD) PA-SU-018.5.RD | PA-SU-020.000 242.00-1,002.00,000. | PA-SU-021.000 242.00-1,003.00,000. | SR 2041 (GLENWOOD ROAD) PA-SU-021.5.RD | PA-SU-020.000 242.00-1,002.00,000. | PA-SU-022.000 242.00-1,056.00,000. | PA-SU-023.000 242.00-1,062.00,000. | PA-SU-025.000 242.00-1,057.00,000. | PA-SU-026.000 242.00-1,058.00,000. | PA-SU-027.000 223.00-1,030.00,000. |
|-----------|---------------------------------------|--|---------------------------------------|---------------------------------------|--|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|

LENOX TOWNSHIP



| | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|----|-----|----|------|-----|------|-----|------|-----|------|-----|---|----|-----|----|----|-----|-----|----|
| LAND USE | 41 | 21 | 14 | 21 | 5 | 21 | 41 | 14 | 41 | 21 | 41 | 5 | 43 | 5 | 43 | 43 | 5 | 43 | 41 |
| SOIL TYPE | Wy | LK2 | | WeB2 | LK2 | WeB2 | Wsb | WeB2 | LK2 | McC2 | Vc2 | | Mn | MgD | | | VsB | MgD | VB |
| E & S DETAIL: OR DETAIL GROUP: | | | | | | | | | | | | | | | | | | | |



| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|----|-----|----|----|----|----|----|----|-----|----|-----|----|----|----|----|-----|-----|----|----|-----|-----|----|----|----|----|----|
| AVERAGE % SLOPE | 8% | 22% | 8% | 2% | 1% | 3% | 0% | 6% | 10% | 2% | 11% | 0% | 3% | 9% | 4% | 17% | 29% | 7% | 1% | 16% | 11% | 1% | 6% | 8% | 2% | 8% |
|-----------------|----|-----|----|----|----|----|----|----|-----|----|-----|----|----|----|----|-----|-----|----|----|-----|-----|----|----|----|----|----|

EROSION CONTROL LEGEND

| <table border="1"> <caption>WATERBARR SPACING</caption> <thead> <tr> <th>SLOPE (%)</th> <th>SPACING (FT)</th> </tr> </thead> <tbody> <tr><td><5</td><td>200</td></tr> <tr><td>5-15</td><td>150</td></tr> <tr><td>15-25</td><td>100</td></tr> <tr><td>25-35</td><td>75</td></tr> <tr><td>>35</td><td>50</td></tr> </tbody> </table> <p>THE LOCATIONS OF TRENCH PLUGS HAVE BEEN SHOWN ON THE PROFILE ONLY.</p> <p>AT A MINIMUM, WATERBARRS SHALL BE LOCATED WITHIN 50 FT OF THE EDGES OF WETLANDS AND WATERBODIES AND TRENCH PLUGS SHALL BE LOCATED AT THE PHYSICAL EDGES OF ALL WETLANDS AND WATERBODIES.</p> <p>THE DIRECTION OF THE ARROW IN THE WATERBARR SYMBOL REPRESENTS THE DIRECTION OF FLOW OF THE WATER INTERCEPTED BY THE WATERBARR IN PLAN VIEW. THE WATERBARR SHALL BE INSTALLED AT A MAXIMUM 2% SLOPE IN THE DIRECTION OF THE ARROW.</p> <p>* SOILS IDENTIFIED BY NRCS AS ACID-PRODUCING WITH A pH LESS THAN 4.0. ** POTENTIALLY SIGNIFICANT ACID-PRODUCING BEDROCK IDENTIFIED BY PADEP, PAQS AND PA DCMR.</p> <p>WATERBARR ABBREVIATIONS</p> <p>WVF - WARM WATER FISHES CWF - COLD WATER FISHES MF - MIGRATORY FISHES TSF - TROUT STOCKING HQ - HIGH QUALITY WATERS EV - EXCEPTIONAL VALUE WATER</p> | SLOPE (%) | SPACING (FT) | <5 | 200 | 5-15 | 150 | 15-25 | 100 | 25-35 | 75 | >35 | 50 | <p>PERMANENT TRENCH PLUG</p> <p>EXCAVATED DIVERSION SWALE</p> <p>FILTER SOCK DIVERSION SWALE</p> <p>TEMPORARY DIVERSION SWALE ID</p> <p>12" SEDIMENT BARRIER</p> <p>18" SEDIMENT BARRIER</p> <p>24" SEDIMENT BARRIER</p> <p>32" SEDIMENT BARRIER</p> <p>RIP RAP APRON AT EXCAVATED DIVERSION SWALE OR FILTER SOCK DIVERSION SWALE DISCHARGING TO WETLAND OR WATERBODY</p> <p>OUTLET BASIN</p> <p>TEMPORARY PIPE AND LEVEL SPREADER OR (SEE BMP NOTE 2)</p> <p>NUMBER OF 12" OR 18" TEMPORARY PIPES (SEE BMP NOTE 3)</p> <p>BORE/RECEIVING PIT</p> <p>NRCS SOILS BOUNDARY</p> <p>STABILIZED CONSTRUCTION ENTRANCE</p> <p>EROSION CONTROL BLANKET (SEE GENERAL NOTE #9)</p> <p>RIPARIAN REPLANTING AREAS</p> | <p>PROPOSED PIPELINE</p> <p>ESCOP2</p> <p>EXISTING LEADY/TOP PIPELINES</p> <p>FOREIGN PIPELINE</p> <p>LIMITS OF DISTURBANCE (LOD)</p> <p>50' PROPOSED PERMANENT EASEMENT</p> <p>10' PERMANENT MAINTENANCE</p> <p>PROPERTY LINE</p> <p>PROPOSED COMPRESSOR STATION</p> <p>FLOODWAY/FLOODPLAIN LINE</p> <p>RIPARIAN BUFFER</p> <p>WETLAND AREA</p> <p>DELINEATED WATERWAY (TOP OF BANK)</p> <p>DELINEATED WATERBODY</p> <p>EXISTING TREELINE</p> <p>EXISTING TREE/SHRUB</p> <p>EXISTING UTILITY POLE</p> <p>EXISTING UTILITY TOWER</p> <p>EXISTING GAS UTILITY</p> <p>EXISTING FENCE</p> <p>PROPOSED FENCE</p> <p>EXISTING MINOR CONTOUR</p> <p>EXISTING MAJOR CONTOUR</p> |
|--|--------------|--------------|----|-----|------|-----|-------|-----|-------|----|-----|----|--|--|
| SLOPE (%) | SPACING (FT) | | | | | | | | | | | | | |
| <5 | 200 | | | | | | | | | | | | | |
| 5-15 | 150 | | | | | | | | | | | | | |
| 15-25 | 100 | | | | | | | | | | | | | |
| 25-35 | 75 | | | | | | | | | | | | | |
| >35 | 50 | | | | | | | | | | | | | |

E & S DETAIL GROUP LEGEND FOR PIPELINE CROSSINGS

TYPICAL WATERSHED

WETLANDS: (MAT), (MCC), (MCL), (S), (BEC), (CD), (DPX), (FX), (HDD), (R1), (R2), (RCE), (RXL), (RXL2), (RXL3), (RXL4), (RXL5), (RXL6), (RXL7), (RXL8), (RXL9), (RXL10), (RXL11), (RXL12), (RXL13), (RXL14), (RXL15), (RXL16), (RXL17), (RXL18), (RXL19), (RXL20)

WATERBODIES: (W), (M), (S), (B), (C), (D), (E), (F), (G), (H), (I), (J), (K), (L), (M), (N), (O), (P), (Q), (R), (S), (T), (U), (V), (W), (X), (Y), (Z)

WETLAND/WATERBODIES: (W), (M), (S), (B), (C), (D), (E), (F), (G), (H), (I), (J), (K), (L), (M), (N), (O), (P), (Q), (R), (S), (T), (U), (V), (W), (X), (Y), (Z)

RAILROADS: (RR), (RCE), (RXL), (RXL2), (RXL3), (RXL4), (RXL5), (RXL6), (RXL7), (RXL8), (RXL9), (RXL10), (RXL11), (RXL12), (RXL13), (RXL14), (RXL15), (RXL16), (RXL17), (RXL18), (RXL19), (RXL20)

ROADS: (R), (R1), (R2), (R3), (R4), (R5), (R6), (R7), (R8), (R9), (R10), (R11), (R12), (R13), (R14), (R15), (R16), (R17), (R18), (R19), (R20)

SPECIAL PROTECTION WATERSHED

WETLANDS: (MAT), (MCC), (MCL), (S), (BEC), (CD), (DPX), (FX), (HDD), (R1), (R2), (RCE), (RXL), (RXL2), (RXL3), (RXL4), (RXL5), (RXL6), (RXL7), (RXL8), (RXL9), (RXL10), (RXL11), (RXL12), (RXL13), (RXL14), (RXL15), (RXL16), (RXL17), (RXL18), (RXL19), (RXL20)

WATERBODIES: (W), (M), (S), (B), (C), (D), (E), (F), (G), (H), (I), (J), (K), (L), (M), (N), (O), (P), (Q), (R), (S), (T), (U), (V), (W), (X), (Y), (Z)

WETLAND/WATERBODIES: (W), (M), (S), (B), (C), (D), (E), (F), (G), (H), (I), (J), (K), (L), (M), (N), (O), (P), (Q), (R), (S), (T), (U), (V), (W), (X), (Y), (Z)

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ROADS: (R), (R1), (R2), (R3), (R4), (R5), (R6), (R7), (R8), (R9), (R10), (R11), (R12), (R13), (R14), (R15), (R16), (R17), (R18), (R19), (R20)

BMP NOTES:

- DETAILS IN THIS LEGEND ARE NOT COMPREHENSIVE AND ONLY REFER TO BMPs RELATED TO PIPELINE CROSSINGS. ADDITIONAL BMPs ARE PROVIDED FOR ACCESS ROADS & FACILITIES.
- REFER TO BEST MANAGEMENT AND QUANTITIES PLAN SET FOR DESIGN, NOTES AND DETAILS.
- REFER TO CLEAN WATER CROSSING (CWC) DETAIL IN THE BEST MANAGEMENT AND QUANTITIES PLAN SET FOR TEMPORARY LEVEL SPREADER DESIGN.
- THE APPROX. LOCATION AND TYPE OF SEDIMENT BARRIERS TO BE INSTALLED ALONG THE CONSTRUCTION WORKSPACE ARE LOCATED IN TABLES IN THE BEST MANAGEMENT PRACTICES AND QUANTITIES PLAN SET.

GENERAL NOTES

- THE E&S DETAIL NUMBERS NOTED ABOVE AND IN THE E&S DETAIL GROUP LEGEND CORRESPOND TO SPECIFIC DETAILS THAT ARE COMPRISED OF PADEP APPROVED BEST MANAGEMENT PRACTICES (BMP) AND SUPPLEMENTAL CONSTRUCTION DETAILS TO BE FOLLOWED AND/OR INSTALLED DURING CONSTRUCTION OF THE PIPELINE.
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- WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FT OFFSET MEASURED LATEROFF FROM THE PHYSICAL WATERBODY TOP OF BANK.
- CONTRACTOR TO SEGREGATE TOPSOILS IN ALL AGRICULTURAL, RESIDENTIAL AND WETLAND USE AREAS. THE EXISTING SUBGRADE SHALL BE SCARIFIED PRIOR TO TOPSOIL PLACEMENT IN ALL AREAS.
- REFER TO ACID PRODUCING SOILS AND BEDROCK CONTROL PLANS FOR MITIGATION MEASURES OF SOILS WITH A pH BELOW 4.0.
- PROPOSED CLEAN WATER CROSSING SHOWN HEREIN ARE TEMPORARY STORMWATER RUNOFF CONVEYANCE BMPs ASSOCIATED WITH THE CHAPTER 102 ESCOP-2 APPLICATION. NO FLOWS FROM REGULATED WATERWAYS ARE INTENDED TO BE CONVEYED WITHIN THESE BMPs.
- DURING THE CONSTRUCTION PHASE, IF SHALLOW BEDROCK IS PRESENT, THEN THE PIPELINE WILL BE INSTALLED THROUGH THE WATERBODY WITH A MINIMUM OF 2 FOOT OF COVER, AS THE REQUIRED 5 FOOT OF MINIMUM COVER WILL NOT BE FEASIBLE.
- EROSION CONTROL BLANKETS SHALL BE INSTALLED ON SLOPES 3:1 OR GREATER, WITHIN 50 FEET OF A NON-HQ/EV WETLAND OR STREAM, AND WITHIN 100 FEET OF A HQ/EV STREAM OR WETLAND. REFER TO SHADED SECTIONS OF PROFILE SLOPE BAND FOR APPROXIMATE LOCATION OF EROSION CONTROL BLANKET AREAS.
- ACCESS ROAD AND FACILITY RCEs SHOWN FOR COORDINATION PURPOSES. SEE ACCESS ROAD AND FACILITY PLAN SETS FOR ADDITIONAL INFORMATION.

REVISIONS

| NO. | DATE | BY | DESCRIPTION | W.D. NO. | CHK. | APP. |
|-----|------------|----|--|-----------|------|------|
| 0 | 08/28/2015 | BL | ISSUED FOR PADEP SUBMITTAL | W01161481 | BLK | AJB |
| 1 | 12/02/2015 | BL | ISSUED FOR PADEP RESUBMITTAL | W01161481 | BLK | AJB |
| 2 | 06/10/2016 | BL | PADEP TECHNICAL DEFICIENCY RESPONSE #1 | W01161481 | BLK | AJB |
| 3 | April 2017 | BL | PADEP TECHNICAL DEFICIENCY RESPONSE #2 | W01161481 | BLK | AJB |
| 4 | Aug. 2017 | BL | PADEP TECHNICAL DEFICIENCY RESPONSE #3 | W01161481 | BLK | AJB |

LAND USE LEGEND

| | |
|--|--|
| 5 - OPEN WATER | 41 - DECIDUOUS FOREST LAND |
| 11 - RESIDENTIAL | 42 - EVERGREEN FOREST LAND |
| 14 - TRANSPORTATION, UTILITY, AND COMMUNICATIONS | 43 - MIXED FOREST LAND |
| 15 - INDUSTRIAL AND COMMERCIAL | 44 - FORESTED/CULTIVATED TIMBER OR FOREST LAND |
| 21 - CROPLAND AND PASTURE | 55 - RIVERS |
| 22 - ORCHARDS, GROVES, VINEYARDS, NURSERIES | 74 - BARE EXPOSED ROCK |
| 25 - HAY FIELDS | 75 - STRIP MINES, QUARRIES, AND GRAVEL |
| 32 - SHRUB AND BRUSH RANGELAND | 99 - HERBACEOUS OPENINGS |

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC
 SOIL EROSION & SEDIMENT CONTROL PLAN / SITE RESTORATION PLAN
 ATLANTIC SUNRISE PROJECT
 PROPOSED 30" CENTRAL PENN LINE NORTH
 M.P. 53.41 TO M.P. 54.55
 SUSQUEHANNA COUNTY, PENNSYLVANIA

William's

DRAWN BY: JMD DATE: 11/2014 ISSUED FOR BID: SCALE: AS NOTED
 CHECKED BY: BDJ DATE: 03/13/2015
 APPROVED BY: AJB DATE: 03/13/2015
 W01161481

REVISION: 3
 SHEET 4 OF 7

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 Date: 2017-08-27
 Date/Time: 8:56am
 User: rickerson

OWNERSHIP

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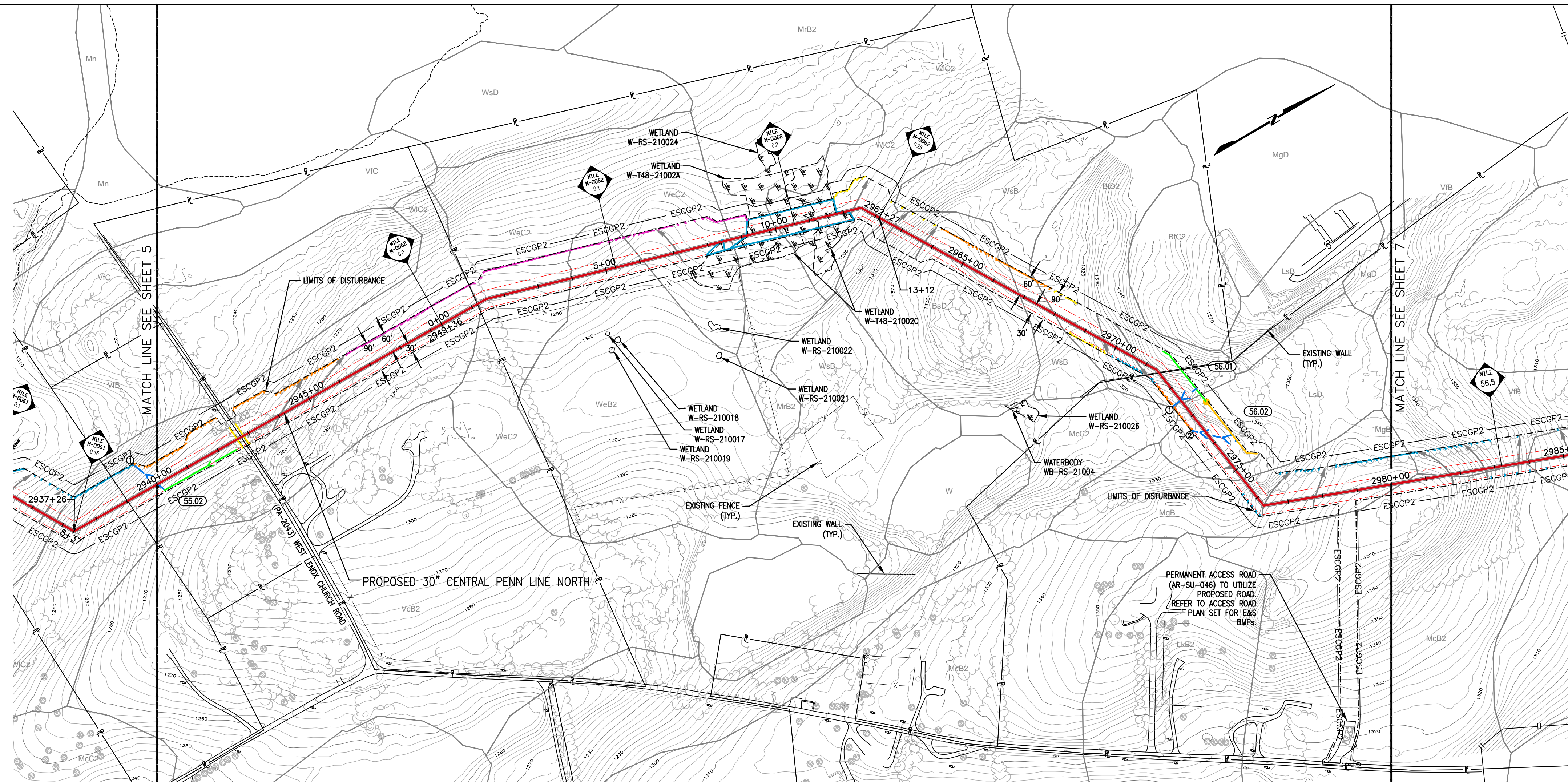
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CHURCH RD
PA-SU-038.5.RD

PA-SU-039.000
223.00-1,016.00.000.

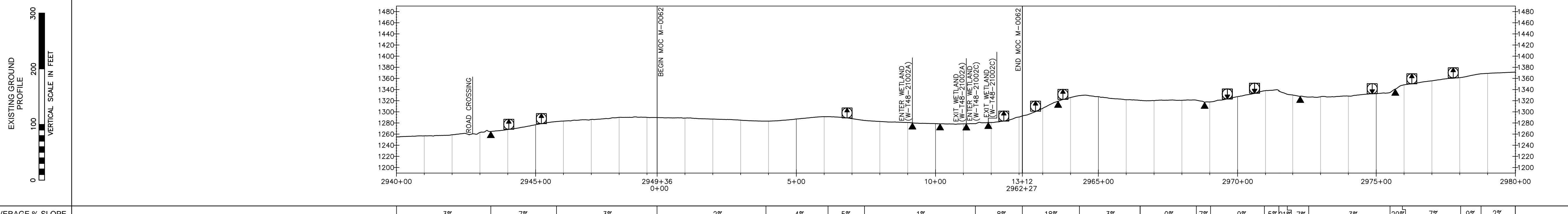
PA-SU-040.000
223.00-1,012.02.000.

PA-SU-041.000
223.00-1,010.00.000.

LENOX TOWNSHIP



| | | | | | | | | | | | | | | | |
|--|--|----|----|-----|----|------|------|------|-----|-----|-----|-----|------|-----|-----|
| LAND USE | | 43 | 14 | 11 | 43 | 21 | 5 | 43 | 41 | 25 | | | | | |
| SOIL TYPE | | | | wc2 | | WeC2 | WeB2 | WeC2 | Mb2 | wc2 | BaD | Wsb | BID2 | LsD | MgB |
| E & S DETAIL: (DP) OR DETAIL GROUP: (SP) | | | | | | | | | | | | | | | |



| | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|-----|----|----|-----|----|----|----|
| AVERAGE % SLOPE | | 3% | 7% | 3% | 2% | 4% | 5% | 1% | 8% | 18% | 3% | 0% | 7% | 9% | 5% | 21% | 7% | 3% | 29% | 7% | 9% | 2% |
|-----------------|--|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|-----|----|----|-----|----|----|----|

EROSION CONTROL LEGEND

| WATERBAR SPACING | TRENCH PLUG SPACING | WATERBARS (SEE GENERAL NOTE 3) | PROPOSED PIPELINE |
|------------------------|------------------------|--------------------------------------|-----------------------------------|
| SLOPE (%) SPACING (FT) | SLOPE (%) SPACING (FT) | ESCOP2 | ESCOP2-2 LIMITS |
| <5 200 | <5 1000 | 12" SEDIMENT BARRIER | EXISTING LEADY/TGPL PIPELINES |
| 5-15 150 | 5-15 500 | 18" SEDIMENT BARRIER | FOREIGN PIPELINE |
| >15-30 100 | >15-25 300 | 24" SEDIMENT BARRIER | LIMITS OF DISTURBANCE (LOD) |
| >30 50 | >25-35 200 | OUTLET BASIN | 50' PROPOSED PERMANENT EASEMENT |
| | >35-100 100 | TEMPORARY PIPE AND LEVEL SPREADER OR | 10' PERMANENT MAINTENANCE |
| | | RIP RAP APRON AT EXCAVATED | PROPERTY LINE |
| | | DIVERSION SWALE OR FILTER SOCK | PROPOSED COMPRESSOR STATION |
| | | DIVERSION SWALE DISCHARGING TO | FLOODWAY/FLOODPLAIN LINE |
| | | WETLAND OR WATERBODY | RIPARIAN BUFFER |
| | | DELINEATED WATERWAY (TOP OF BANK) | WETLAND AREA |
| | | DELINEATED WATERBODY | DELINEATED WATERWAY (TOP OF BANK) |
| | | EXISTING TREE/LIN | DELINEATED WATERBODY |
| | | EXISTING TREE/SHRUB | EXISTING TREE/LIN |
| | | EXISTING UTILITY POLE | EXISTING TREE/SHRUB |
| | | EXISTING UTILITY TOWER | EXISTING UTILITY POLE |
| | | EXISTING GAS UTILITY | EXISTING UTILITY TOWER |
| | | EXISTING FENCE | EXISTING GAS UTILITY |
| | | PROPOSED FENCE | EXISTING FENCE |
| | | EXISTING MINOR CONTOUR | PROPOSED FENCE |
| | | EXISTING MAJOR CONTOUR | EXISTING MINOR CONTOUR |
| | | | EXISTING MAJOR CONTOUR |

WATERBARS (SEE GENERAL NOTE 3)

PROPOSED PIPELINE

ESCOP2

ESCOP2-2 LIMITS

EXISTING LEADY/TGPL PIPELINES

FOREIGN PIPELINE

LIMITS OF DISTURBANCE (LOD)

50' PROPOSED PERMANENT EASEMENT

10' PERMANENT MAINTENANCE

PROPERTY LINE

PROPOSED COMPRESSOR STATION

FLOODWAY/FLOODPLAIN LINE

RIPARIAN BUFFER

WETLAND AREA

DELINEATED WATERWAY (TOP OF BANK)

DELINEATED WATERBODY

EXISTING TREE/LIN

EXISTING TREE/SHRUB

EXISTING UTILITY POLE

EXISTING UTILITY TOWER

EXISTING GAS UTILITY

EXISTING FENCE

PROPOSED FENCE

EXISTING MINOR CONTOUR

EXISTING MAJOR CONTOUR

E & S DETAIL GROUP LEGEND FOR PIPELINE CROSSINGS

TYPICAL WATERSHED

WETLANDS: (MAT), (WEC), (WEC-1), (WEC-2), (WEC-3), (WEC-4), (WEC-5), (WEC-6), (WEC-7), (WEC-8), (WEC-9), (WEC-10), (WEC-11), (WEC-12), (WEC-13), (WEC-14), (WEC-15), (WEC-16), (WEC-17), (WEC-18), (WEC-19), (WEC-20), (WEC-21), (WEC-22), (WEC-23), (WEC-24), (WEC-25), (WEC-26), (WEC-27), (WEC-28), (WEC-29), (WEC-30), (WEC-31), (WEC-32), (WEC-33), (WEC-34), (WEC-35), (WEC-36), (WEC-37), (WEC-38), (WEC-39), (WEC-40), (WEC-41), (WEC-42), (WEC-43), (WEC-44), (WEC-45), (WEC-46), (WEC-47), (WEC-48), (WEC-49), (WEC-50), (WEC-51), (WEC-52), (WEC-53), (WEC-54), (WEC-55), (WEC-56), (WEC-57), (WEC-58), (WEC-59), (WEC-60), (WEC-61), (WEC-62), (WEC-63), (WEC-64), (WEC-65), (WEC-66), (WEC-67), (WEC-68), (WEC-69), (WEC-70), (WEC-71), (WEC-72), (WEC-73), (WEC-74), (WEC-75), (WEC-76), (WEC-77), (WEC-78), (WEC-79), (WEC-80), (WEC-81), (WEC-82), (WEC-83), (WEC-84), (WEC-85), (WEC-86), (WEC-87), (WEC-88), (WEC-89), (WEC-90), (WEC-91), (WEC-92), (WEC-93), (WEC-94), (WEC-95), (WEC-96), (WEC-97), (WEC-98), (WEC-99), (WEC-100)

SPECIAL PROTECTION WATERSHED

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ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
M.P. 55.68 TO M.P. 56.44
SUSQUEHANNA COUNTY, PENNSYLVANIA

Williams

Drawn By: JMD DATE: 11/2014 ISSUED FOR BID: SCALE: AS NOTED
Checked By: BDJ DATE: 03/13/2015 ISSUED FOR CONSTRUCTION: REVISION: 3
Approved By: AJB DATE: 03/13/2015 DRAWING NUMBER: 24-1601-70-28-A/1683_3 SHEET 6
WO: W01161481 OF 7

Drawn By: JMD Date: 11/2014
Checked By: BDJ Date: 03/13/2015
Approved By: AJB Date: 03/13/2015

