CONSTITUTION PIPELINE COMPANY, LLC PROPOSED 30" NATURAL GAS PIPELINE

ROAD DESIGN PLANS FOR TEMPORARY AND PERMANENT ACCESS ROADS

BROOME COUNTY - TOWN OF SANFORD
CHENANGO COUNTY - TOWN OF AFTON
DELAWARE COUNTY - TOWNS OF MASONVILLE, SIDNEY, FRANKLIN, DAVENPORT, & HARPERSFIELD
SCHOHARIE COUNTY- TOWNS OF SUMMIT, RICHMONDVILLE & COBLESKILL

NEW YORK

SHEET INDEX

ROAD NAME & TYPE	SHEET NO.	DWG. NO.	DRAWING NAME	RO & T
	1	26-26-85/CV	COVER SHEET	
	2	26-26-85/GN.1	GENERAL NOTES 1 OF 3	TE
GENERAL	3	26-26-85/GN.2	GENERAL NOTES 2 OF 3	
OVERALL	4	26-26-85/GN.3	GENERAL NOTES 3 OF 3	
	5	26-26-85/DN.1	CONSTRUCTION DETAILS 1 OF 2	7
	6	26-26-85/DN.1	CONSTRUCTION DETAILS 2 OF 2	TEI
PAR-20 PERMANENT	7	26-26-85/PAR-20	ACCESS ROADS - ROAD DESIGN PLAN	
	8	26-26-85/PAR-21.1	ACCESS ROADS - ROAD DESIGN PLAN	
PAR-21 PERMANENT	9	26-26-85/PAR-21.2	ACCESS ROADS - ROAD DESIGN PLAN	
	10	26-26-85/PAR-21.3	ACCESS ROADS - ROAD DESIGN PLAN	l T
	11	26-26-85/PAR-22.1	ACCESS ROADS - ROAD DESIGN PLAN	TEI
	12	26-26-85/PAR-22.2	ACCESS ROADS - ROAD DESIGN PLAN	
	13	26-26-85/PAR-22.3	ACCESS ROADS - ROAD DESIGN PLAN	
PAR-22 PERMANENT	14	26-26-85/PAR-22.4	ACCESS ROADS - ROAD DESIGN PLAN	F PE
	15	26-26-85/PAR-22.5	ACCESS ROADS - ROAD DESIGN PLAN	
	16	26-26-85/PAR-22.6	ACCESS ROADS - ROAD DESIGN PLAN	
	17	26-26-85/PAR-22.7	ACCESS ROADS - ROAD DESIGN PLAN	PE
TAR-22A TEMPORARY	18	26-26-85/TAR-22A	ACCESS ROADS - ROAD DESIGN PLAN	31 -
TAR-27 PERMANENT	19	26-26-85/TAR-27	ACCESS ROADS - ROAD DESIGN PLAN	
PAR-28 PERMANENT	20	26-26-85/PAR-28	ACCESS ROADS - ROAD DESIGN PLAN	
PAR-29 PERMANENT	21	26-26-85/PAR-29	ACCESS ROADS - ROAD DESIGN PLAN	PE
PAR-31 PERMANENT	22	26-26-85/PAR-31	ACCESS ROADS - ROAD DESIGN PLAN	
PAR-31A PERMANENT	23	26-26-85/PAR-31A	ACCESS ROADS - ROAD DESIGN PLAN	PE
PAR-33 PERMANENT	24	26-26-85/PAR-33	ACCESS ROADS - ROAD DESIGN PLAN	
PAR-34	25	26-26-85/PAR-34.1	ACCESS ROADS - ROAD DESIGN PLAN	
PERMANENT	26	26-26-85/PAR-34.2	ACCESS ROADS - ROAD DESIGN PLAN	PE
PAR-36	27	26-26-85/PAR-36.1	ACCESS ROADS - ROAD DESIGN PLAN	
PERMANENT	28	26-26-85/PAR-36.2	ACCESS ROADS - ROAD DESIGN PLAN	PE
TAR-36A TEMPORARY	29	26-26-85/TAR-36a.1	ACCESS ROADS - ROAD DESIGN PLAN	

& TYPE	NO.	DVVO. IVO.	DIVAVVINO IVAIVIE
	30	26-26-85/TAR-36a.2	ACCESS ROADS - ROAD DESIGN PLAN
TAR-36A TEMPORARY	31	26-26-85/TAR-36a.3	ACCESS ROADS - ROAD DESIGN PLAN
	32	26-26-85/TAR-36a.4	ACCESS ROADS - ROAD DESIGN PLAN
	33	26-26-85/TAR-36b.1	ACCESS ROADS - ROAD DESIGN PLAN
TAR-36B	34	26-26-85/TAR-36b.2	ACCESS ROADS - ROAD DESIGN PLAN
TEMPORARY	35	26-26-85/TAR-36b.3	ACCESS ROADS - ROAD DESIGN PLAN
	36	26-26-85/TAR-36b.4	ACCESS ROADS - ROAD DESIGN PLAN
	37	26-26-85/TAR-36C.1	ACCESS ROADS - ROAD DESIGN PLAN
	38	26-26-85/TAR-36C.2	ACCESS ROADS - ROAD DESIGN PLAN
TAR-36C TEMPORARY	39	26-26-85/TAR-36C.3	ACCESS ROADS - ROAD DESIGN PLAN
	40	26-26-85/TAR-36C.4	ACCESS ROADS - ROAD DESIGN PLAN
	41	26-26-85/TAR-36C.5	ACCESS ROADS - ROAD DESIGN PLAN
	42	26-26-85/TAR-36C.6	ACCESS ROADS - ROAD DESIGN PLAN
PAR-36D PERMANENT	43	26-26-85/PAR-36D	ACCESS ROADS - ROAD DESIGN PLAN
	44	26-26-85/PAR-37.1	ACCESS ROADS - ROAD DESIGN PLAN
	45	26-26-85/PAR-37.2	ACCESS ROADS - ROAD DESIGN PLAN
PAR-37 PERMANENT	46	26-26-85/PAR-37.3	ACCESS ROADS - ROAD DESIGN PLAN
	47	26-26-85/PAR-37.4	ACCESS ROADS - ROAD DESIGN PLAN
	48	26-26-85/PAR-37.5	ACCESS ROADS - ROAD DESIGN PLAN
PAR-38	49	26-26-85/PAR-38.1	ACCESS ROADS - ROAD DESIGN PLAN
PERMANENT	50	26-26-85/PAR-38.2	ACCESS ROADS - ROAD DESIGN PLAN
	51	26-26-85/PAR-39.1	ACCESS ROADS - ROAD DESIGN PLAN
PAR-39 PERMANENT	52	26-26-85/PAR-39.2	ACCESS ROADS - ROAD DESIGN PLAN
	53	26-26-85/PAR-39.3	ACCESS ROADS - ROAD DESIGN PLAN
	54	26-26-85/PAR-40.1	ACCESS ROADS - ROAD DESIGN PLAN
PAR-40 PERMANENT	55	26-26-85/PAR-40.2	ACCESS ROADS - ROAD DESIGN PLAN
	56	26-26-85/PAR-40.3	ACCESS ROADS - ROAD DESIGN PLAN
PAR-41 PERMANENT	57	26-26-85/PAR-41	ACCESS ROADS - ROAD DESIGN PLAN

DRAWING NAME

ROAD NAME & TYPE	SHEET NO.	DWG. NO.	DRAWING NAME
	58	26-26-85/PAR-43.1	ACCESS ROADS - ROAD DESIGN PLAN
PAR-43	59	26-26-85/PAR-43.2	ACCESS ROADS - ROAD DESIGN PLAN
PERMANENT	60	26-26-85/PAR-43.3	ACCESS ROADS - ROAD DESIGN PLAN
	61	26-26-85/PAR-43.4	ACCESS ROADS - ROAD DESIGN PLAN
	62	26-26-85/PAR-44.1	ACCESS ROADS - ROAD DESIGN PLAN
PAR-44	63	26-26-85/PAR-44.2	ACCESS ROADS - ROAD DESIGN PLAN
PERMANENT	64	26-26-85/PAR-44.3	ACCESS ROADS - ROAD DESIGN PLAN
	65	26-26-85/PAR-44.4	ACCESS ROADS - ROAD DESIGN PLAN
	66	26-26-85/PAR-46.1	ACCESS ROADS - ROAD DESIGN PLAN
	67	26-26-85/PAR-46.2	ACCESS ROADS - ROAD DESIGN PLAN
PAR-46	68	26-26-85/PAR-46.3	ACCESS ROADS - ROAD DESIGN PLAN
PERMANENT	69	26-26-85/PAR-46.4	ACCESS ROADS - ROAD DESIGN PLAN
	70	26-26-85/PAR-46.5	ACCESS ROADS - ROAD DESIGN PLAN
	71	26-26-85/PAR-46.6	ACCESS ROADS - ROAD DESIGN PLAN
	72	26-26-85/PAR-47.1	ACCESS ROADS - ROAD DESIGN PLAN
PAR-47 PERMANENT	73	26-26-85/PAR-47.2	ACCESS ROADS - ROAD DESIGN PLAN
	74	26-26-85/PAR-47.3	ACCESS ROADS - ROAD DESIGN PLAN
PAR-48B	75	26-26-85/PAR-48B.1	ACCESS ROADS - ROAD DESIGN PLAN
PERMANENT	76	26-26-85/PAR-48B.2	ACCESS ROADS - ROAD DESIGN PLAN
PAR-48A	77	26-26-85/PAR-48A	ACCESS ROADS - ROAD DESIGN PLAN
TAR-5	78	26-26-85/TAR-5.1	ACCESS ROADS - ROAD DESIGN PLAN
TEMPORARY	79	26-26-85/TAR-5.2	ACCESS ROADS - ROAD DESIGN PLAN
PAR-56	80	26-26-85/PAR-56.1	ACCESS ROADS - ROAD DESIGN PLAN
PERMANENT	81	26-26-85/PAR-56.2	ACCESS ROADS - ROAD DESIGN PLAN
TAR-4 TEMPORARY	82	26-26-85/TAR-4	ACCESS ROADS - ROAD DESIGN PLAN
PAR-56A	83	26-26-85/PAR-56A.1	ACCESS ROADS - ROAD DESIGN PLAN
PERMANENT	84	26-26-85/PAR-56A.2	ACCESS ROADS - ROAD DESIGN PLAN
PAR-59 PERMANENT	85	26-26-85/PAR-59	ACCESS ROADS - ROAD DESIGN PLAN
PAR-60 PERMANENT	86	26-26-85/PAR-60.1	ACCESS ROADS - ROAD DESIGN PLAN

ROAD NAME & TYPE	SHEET NO.	DWG. NO.	DRAWING NAME
PAR-60	87	26-26-85/PAR-60.2	ACCESS ROADS - ROAD DESIGN PLAN
PERMANENT	88	26-26-85/PAR-60.3	ACCESS ROADS - ROAD DESIGN PLAN
PAR-63 PERMANENT	89	26-26-85/PAR-63	ACCESS ROADS - ROAD DESIGN PLAN
TAR-2 TEMPORARY	90	26-26-85/TAR-2	ACCESS ROADS - ROAD DESIGN PLAN
	91	26-26-85/PAR-66.1	ACCESS ROADS - ROAD DESIGN PLAN
PAR-66	92	26-26-85/PAR-66.2	ACCESS ROADS - ROAD DESIGN PLAN
PERMANENT	93	26-26-85/PAR-66.3	ACCESS ROADS - ROAD DESIGN PLAN
	94	26-26-85/PAR-66.4	ACCESS ROADS - ROAD DESIGN PLAN
PAR-68 PERMANENT	95	26-26-85/PAR-68	ACCESS ROADS - ROAD DESIGN PLAN
	96	26-26-85/PAR-73.1	ACCESS ROADS - ROAD DESIGN PLAN
PAR-73 PERMANENT	97	26-26-85/PAR-73.2	ACCESS ROADS - ROAD DESIGN PLAN
	98	26-26-85/PAR-73.3	ACCESS ROADS - ROAD DESIGN PLAN
PAR-74 PERMANENT	99	26-26-85/PAR-74	ACCESS ROADS - ROAD DESIGN PLAN
PAR-74C	100	26-26-85/PAR-74C.1	ACCESS ROADS - ROAD DESIGN PLAN
PERMANENT	101	26-26-85/PAR-74C.2	ACCESS ROADS - ROAD DESIGN PLAN
PAR-74D PERMANENT	102	26-26-85/PAR-74D	ACCESS ROADS - ROAD DESIGN PLAN

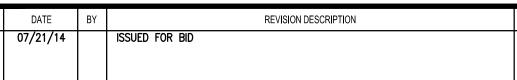
CONSTITUTION PIPELINE COMPANY, LLC PROPOSED 30" NATURAL GAS PIPELINE ACCESS ROADS — ROAD DESIGN PLAN

COVER SHEET

COAD DESIGN PLAN
SHEET CONSTITUTE







DRAWN BY:

DATE: 10/29/2013 ISSUED FOR BID:

CHECKED BY:

DATE:

DATE:

DATE:

DRAWING NUMBER: 26-26-85/CV

WO:



SEQUENCE OF BMP INSTALLATION AND REMOVAL NOTES

CONSTRUCTION MUST BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE. THIS SCHEDULE IS DESIGNED TO MINIMIZE SOIL EROSION AND SEDIMENTATION. THE CONTRACTOR MAY DEVIATE SLIGHTLY FROM THE STAGING OF PERMANENT SITE IMPROVEMENTS, BUT NO DEVIATION FROM THE RELATIVE ORDER OF EROSION AND SEDIMENTATION CONTROL MEASURES WILL BE ALLOWED WITHOUT WRITTEN APPROVAL FROM SUSQUEHANNA COUNTY CONSERVATION DISTRICT OR NYSDEC.

FACILITIES TO CONTROL THE TRANSPORT OF SOIL MATERIAL FROM THE CONSTRUCTION AREA SHALL BE INSTALLED PRIOR TO ANY

NOTE: THE STAGING OF EARTHMOVING ACTIVITIES FOR THIS PROJECT IS A GENERAL DESCRIPTION OF THE WORK REQUIRED. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH PROJECT OWNER STANDARDS, THE NYSDEC REGULATIONS, AND ALL OTHER APPLICABLE FEDERAL, STATE OR LOCAL REQUIREMENTS.

ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED (EXCEPT AS INDICATED BELOW). DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE SUSQUEHANNA COUNTY CONSERVATION DISTRICT (SCCD)/NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC). CLEARING & GRUBBING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH

- SCHEDULE WORK TO MINIMIZE THE LENGTH OF TIME THAT BARE SOIL WILL BE EXPOSED TO THE ELEMENTS.
- FOLLOW THE CONSTRUCTION/EROSION CONTROL IMPLEMENTATION PLAN AS OUTLINED ON THE DRAWINGS. 3. IMPLEMENT CONTROL MEASURES AS SPECIFIED; HOWEVER, THE CONTRACTOR MAY INSERT ADDITIONAL CONSTRUCTION PHASES IN ORDER TO EXPEDITE HIS WORK.
- 4. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BMPS TO MINIMIZE THE POTENTIAL FOR EROSION AND
- SEDIMENT POLLUTION AND NOTIFY THE SCCD/NYSDEC. 5. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL COUNTY CONSERVATION DISTRICT OR NYSDEC FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF ANY EXCESS MATERIAL AND TO DEVELOP A PLAN THAT MEETS THE CONDITIONS OF CHAPTER 102, NPDES PERMIT
- CONDITIONS, AND/OR OTHER STATE AND FEDERAL REGULATIONS. ALL DISTURBED AREAS WITHIN 50' OF A STREAM CROSSING (WHERE THE STREAM WIDTH IS LESS THAN OR EQUAL 10') SHALL BE STABILIZED WITHIN 24 HOURS OF COMPLETING CONSTRUCTION AT THE CROSSING.
- ALL DISTURBED AREAS WITHIN 50' OF A STREAM CROSSING (WHERE THE STREAM WIDTH > 10') SHALL BE STABILIZED WITHIN 48 HOURS OF COMPLETING CONSTRUCTION AT THE CROSSING.
- CONSTRUCTION SEQUENCE IS AS FOLLOWS:
- 9. PRE-CONSTRUCTION MEETING TO BE HELD BY PROJECT OWNER/OPERATOR. ALL CONTRACTORS INVOLVED IN EARTH DISTURBANCE ACTIVITIES. AND THE OPERATOR'S ENGINEER PRIOR TO LAND DISTURBING ACTIVITIES. PROVIDE THE REQUIRED 7 DAY NOTICE FOR SCHEDULING OF THE PRE-CONSTRUCTION MEETING. ALL PARTIES LISTED ARE REQUIRED TO ATTEND.
- 10. INSTALL TEMPORARY CONSTRUCTION FENCE, TEMPORARY CONSTRUCTION ENTRANCE, PERIMETER COMPOST FILTER SOCKS, WATER BARS*, DIVERSION SWALES, BROAD BASED DIPS, AND CROSS TRENCHES.
- 11. INSTALL ROADSIDE SWALE AND CHECK DAMS PER PLAN.* 12. INSTALL BEDDING MATERIAL AND PIPELINES.
- 13. INSTALL STREAM AND WETLAND CROSSINGS AS NEEDED.
- 14. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE LONGER THAN 4 DAYS IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS.
- 15. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE NY ECP. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
- 16. FINISH GRADING; PLACE 4" MINIMUM TOPSOIL ON SLOPES AFTER FINAL GRADING IS COMPLETED. FERTILIZE SEED AND MULCH. SEED MIXTURE TO BE INSTALLED APRIL 1— JUNE 1 OR SEPTEMBER 1 — NOVEMBER 30. FOR TEMPORARY STABILIZATION BEYOND SEEDING DATES USE ANNUAL RYE AT 10.0 LBS./1,000 S.Y. FERTILIZE WITH 5-5-5 AT 1000 LBS. OF NITROGEN PER ACRE AND LIME AT ONE TON PER ACRE (MAX.).
- 17. ALL AREAS THAT HAVE BEEN DISTURBED WHICH HAVE REACHED FINAL GRADE SHALL BE PERMANENTLY STABILIZED.
- 18. <u>REMOVE SILT SOCKS AND/OR FENCE ONLY AFTER ALL PIPELINE HAS BEEN INSTALLED AND EXPOSED SURFACES ARE STABILIZED. REMOVE TEMPORARY CONSTRUCTION FENCING, WATER BARS, DIVERSION SWALES, CROSS TRENCHES, TIMBER MATS</u>
- AND ANY PIPES AND STONE ASSOCIATED WITH STREAM CROSSINGS.

 19. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 80% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.

STANDARD EROSION & SEDIMENTATION CONTROL PLAN NOTES

- 1. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED F&S PLAN. A COPY OF THE APPROVED DRAWINGS MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS
- 2. AT LEAST 7 DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE PCSM PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM THE DEC TO AN ON-SITE PRE-CONSTRUCTION MEETING.
- 3. AT LEAST 72 HOURS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED. THE CONTRACTOR SHALL CONTACT 811 DIG SAFELY NEW YORK (1-800-962-7962) FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- 4. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE NYSDEC PRIOR TO IMPLEMENTATION.
- 5. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
- 6. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPS SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
- 7. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
- 8. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAPS(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.
- 9. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE DEC.
- 10. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL AUTHORITY AND FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.

STANDARD EROSION & SEDIMENTATION CONTROL PLAN NOTES (CONT.

- 11. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL.
- 12. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN NY ECP. OVER UNDISTURBED VEGETATED AREAS.
- 13. UNTIL THE SITE IS STABILIZED. ALL EROSION AND SEDIMENT BMPS SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
- 14. A LOG SHOWING DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
- 15. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THE NY ECP. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEPT INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
- 16. ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
- 17. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES -- 6 TO 12 INCHES ON COMPACTED SOILS -- PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
- 18. ALL FILLS 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.
- 19. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
- 20. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
- 21. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
- 22. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- 23. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE NY ECP STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
- 24. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 15 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THE NY ECP.
- 25. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
- 26. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 80% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
- 27. E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
- 28. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPS MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPS. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPS SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
- 29. FAILURE TO CORRECTLY INSTALL E&S BMPS. FAILURE TO PREVENT SEDIMENT—LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPS MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES.
- 30. CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE SHALL IT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS.
- 31. UNDERGROUND UTILITIES CUTTING THROUGH ANY ACTIVE CHANNEL SHALL BE IMMEDIATELY BACKFILLED AND THE CHANNEL RESTORED TO ITS ORIGINAL CROSS-SECTION AND PROTECTIVE LINING. ANY BASE FLOW WITHIN THE CHANNEL SHALL BE CONVEYED PAST THE WORK AREA IN THE MANNER DESCRIBED IN THE NY ECP UNTIL SUCH RESTORATION IS COMPLETE.
- 32. EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER WITHIN 15 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS.

NOTICES TO CONTRACTOR

- 1. THE CONTRACTOR SHALL VERIFY AND ADHERE TO ALL REQUIRED PERMITS PRIOR TO STARTING WORK.
- 2. THE CONTRACTOR SHALL ASSURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED.
- 3. CONTRACTOR SHALL VERIFY ACTIVE AGRICULTURAL/FARM FIELDS DURING CONSTRUCTION. IF AN ACTIVE AGRICULTURAL/FARM FIELD IS IDENTIFIED, EROSION CONTROL MATTING CAN BE LIMITED/REDUCED TO AVOID THE AGRICULTURAL/FARM FIELD.
- 4. WATERBARS IN AGRICULTURAL/FARM FIELDS MAY BE TEMPORARY AT THE REQUEST OF THE SURFACE LANDOWNER AND BE REMOVED AND RESTABILIZED UPÓN ESTABLISHMENT OF 80 PERCENT PERMANENT VEGETATIVE COVER WITHIN THE UPSLOPE TRIBUTARY DRAINAGE AREA.
- 5. ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE COORDINATED WITH THE AGENCY HAVING JURISDICTION.
- 6. FURNISH & INSTALL SWALES WHENEVER CONCENTRATED FLOWS HAVE THE POTENTIAL TO RUN ONTO OR THROUGH THE CONSTRUCTION AREA. DIRECT THE SWALE DISCHARGE TO A RIP RAP ENERGY DISSIPATER AND VEGETATED AREA.

THERMAL IMPACT ANALYSIS

THERMAL IMPACTS WERE AVOIDED FOR THE CURRENT PROJECT BY INITIALLY ENGAGING IN ROUTING STUDIES TO SPECIFICALLY AVOID IMPACTS TO FORESTED STREAM CORRIDORS. WHEN AVOIDANCE WAS NOT POSSIBLE, THE APPLICANT CONSIDERED THE FEASIBILITY OF CROSSING THESE FEATURES VIA CONVENTIONAL BORE OR HORIZONTAL DIRECTIONAL DRILLING (HDD). WHEN CROSSING VIA BORE/HDD WERE NOT PRACTICABLE, THE PROJECT LIMIT OF DISTURBANCE WAS MINIMIZED AT EACH CROSSING. DURING CONSTRUCTION, THE DURATION OF EXPOSED SOIL IN THESE AREAS WILL BE MINIMIZED AND THE AREAS WILL BE RESTORED TO A MEADOW—LIKE CONDITION.

THE BMPS USED TO MITIGATE ANY THERMAL IMPACTS ARE A VEGETATED SWALE AND ASSOCIATED CHECK DAMS WHICH WILL BE USED IN CONJUNCTION WITH THE PERMANENT ROAD WILL SERVE TO POOL STORMWATER FOR A PERIOD OF TIME, ALLOWING THE HEAT FROM THESE AREAS TO DISSIPATE PRIOR TO ENTERING DOWNSTREAM RESOURCES. ADDITIONALLY, PERMANENT WATERBARS WILL SLOW DOWN THE RATE OF RUNOFF TO FORESTED STREAM CORRIDORS.

GENERAL EROSION & SEDIMENT CONTROL NOTES

1. INSPECT SNOW PLACEMENT AREAS DURING THE THAW CYCLE. INSTALL EROSION & SEDIMENT CONTROL BMPs DURING QUICK THAWS AND WHEN SNOW MELT RUNOFF IS CONCENTRATED OR IS CAUSING EROSION.

2. DISCHARGING SEDIMENT LADEN WATER WHICH WILL CAUSE OR CONTRIBUTE TO THE DEGRADATION OF A BENEFICIAL USE OF A WATER OF THE STATE FROM THE CONSTRUCTION SITE, A DEWATERING SITE, OR SEDIMENT BASIN/TRAP INTO ANY WATER BODY OR STORM DRAIN WITHOUT FILTRATION OR EQUIVALENT TREATMENT IS PROHIBITED.

3. DISCHARGES ORIGINATING FROM OFF-SITE SOURCES, WHICH FLOW THROUGH OR ACROSS THE AREAS DISTURBED BY CONSTRUCTION, SHALL BE DIVERTED AROUND THE ACTIVE CONSTRUCTION AREA WHENEVER

4. STAGING AREAS, ASSEMBLY AREAS, TEMPORARY EQUIPMENT AND NON-HAZARDOUS MATERIAL STORAGE AREAS SHALL BE LOCATED OUTSIDE THE 100-YR FLOOD ZONE. HAZARDOUS MATERIAL STORAGE AREAS SHALL BE LOCATED AT LEAST 100 FEET BACK FROM SURFACE WATER BODIES.

5. ALL EXCAVATED MATERIALS THAT WILL NOT BE USED ON THE SITE CANNOT BE STORED IN THE FLOODPLAIN AND MUST BE HAULED TO A DISPOSAL SITE LOCATED OUTSIDE OF THE FLOODPLAIN.

6. CONSTRUCTION ADDITIONAL TEMPORARY WORK SPACE AREAS SHALL BE LOCATED A MINIMUM OF 50 FEET AWAY FROM THE EDGE OF A WETLAND.

7. MEASURES SHALL BE TAKEN TO PREVENT TRENCHES FROM DRAINING A WETLAND OR CHANGING ITS HYDROLOGY, INCLUDING INSTALLATION OF PERMANENT TRENCH PLUGS. SEE NY ECP FOR FURTHER DETAIL AND SPECIFICATIONS FOR CONSTRUCTION IN WETLANDS.

8. IT IS DESIRED THAT THE AMOUNT AND DURATION OF OPEN TRENCH BE MINIMIZED DURING THE PROJECT.

9. IF TOPSOIL PILES ARE EXPOSED FOR GREATER THAN 4 DAYS, THEY SHALL BE SEEDED WITH AN ANNUAL SEED MIXTURE AND MULCHED WITH STRAW AS SPECIFIED BY THE NY ECP.

INTERIM AND PERMANENT STABILIZATION

1. INTERIM STABILIZATION

TEMPORARY SEEDING WITH MULCH COVER FOR INTERIM STABILIZATION IS A TYPE OF BMP THAT CAN USUALLY BE PROVIDED WHERE THE EARTH DISTURBANCE ACTIVITY TEMPORARILY CEASES (I.E. 4 DAYS OR MORE) UNLESS DIRECTED BY THE PROJECT OWNER. INTERIM STABILIZATION MUST PCCUR WHERE AN ACTIVITY CEASES FOR 14 OR MORE CALENDER DAYS OR LOCATINS THAT HAVE NOT BEEN PERMANENTLY STABILIZED BY OCTOBER 15.

THE INSTALLATION OF AN EROSION CONTROL BLANKET OR APPLICATION OF MULCH UPON SEEDED AREAS ARE BOTH CONSIDERED TO BE INTERIM STABILIZATION BMPs TO PROTECT THE SEEDBED UNTIL VEGETATION IS ESTABLISHED.

2. PERMANENT STABILIZATION

UPON COMPLETION OF ANY EARTH DISTURBANCE ACTIVITY, THE SITE SHALL BE IMMEDIATELY SEEDED, MULCHED, OR OTHERWISE PROTECTED FROM ACCELERATED EROSION AND SEDIMENTATION.

- THE INSTALLATION OF PAVEMENT, ROCK RIP RAP, OR GABIONS ARE SOME EXAMPLES OF STABILIZATION. THE STANDARD FOR VEGETATIVE COVER AS STABILIZATION IS PERENNIAL VEGETATION THAT IS ESTABLISHED WITH A UNIFORM COVERAGE DENSITY OF 80% ACROSS THE DISTURBED AREA. THE APPLICATION OF LIME, FERTILIZERS, SEED, AND MULCH IS USUALLY DONE TO ACHIEVE PERMANENT STABILIZATION. THE MULCH IS CONSIDERED TO BE AN INTERIM STABILIZATION MEASURE TO ASSIST IN THE ESTABLISHMENT OF THE PERMANENT VEGETATIVE COVER.
- 3. STABILIZATION DURING NON-GROWING SEASONS

WHEN UTILITY CONSTRUCTION MUST BE DONE AND IS COMPLETED DURING A NON-GROWING SEASON. INTERIM STABILIZATION BMPs MUST BE IMPLEMENTED AND ADEQUATELY MAINTAINED. THE APPLICATION OF STRAW MULCH AT THE RATE OF 2.0 TONS PER ACRE IS RECOMMENDED. THE BMPs SHOULD BE INSPECTED WEEKLY (UNLESS SNOW COVERED) TO IDENTIFY AREAS THAT BECOME BARE.

BARE AREAS SHOULD BE COVERED WITH A PROPERLY INSTALLED EROSION CONTROL BLANKET. ALL TEMPORARY EROSION AND SEDIMENT POLLUTION CONTROLS MUST BE MAINTAINED UNTIL PERENNIAL VEGETATION IS ESTABLISHED.

- 4. WHERE REQUIRED, HAY OR STRAW MULCH MUST BE APPLIED AT A MINIMUM OF 2.0 TONS PER ACRE.
- 5. STRAW MULCH SHALL BE APPLIED IN LONG STRANDS, NOT FINELY CHOPPED OR BROKEN.
- 6. PRIOR TO ANY SEEDING, LIME, OR FERTILIZATION APPLICATION, A SOIL TEST SHALL BE PERFORMED TO DETERMINE THE pH FACTOR. ADDITIONAL LIME AND FERTILIZER MAY BE REQUIRED. NO LIME OR FERTILIZERS SHALL BE USED IN WETLAND AREAS.

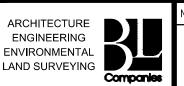
7. LIME, FERTILIZE, SEED, AND MULCH DISTURBED AREAS PER THE EROSION AND SEDIMENT CONTROL PLANS. IN AREAS OF STEEP SLOPES OR OBVIOUS AREAS WHERE POTENTIAL EROSION MAY OCCUR, AND EROSION CONTROL MAT OR FLEXIBLE GROWTH MEDIUM (FGM) SHALL BE USED. FGM SHALL BE APPLIED PER MANUFACTURER SPECIFICATIONS. NO LIME OR FERTILIZERS SHALL BE USED IN WETLAND OR STREAM

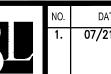
> CONSTITUTION PIPELINE COMPANY, LLC PROPOSED 30" NATURAL GAS PIPELINE ACCESS ROADS - ROAD DESIGN PLAN

> > GENERAL NOTES 1 OF 3



ISSUED FOR BID NOT FOR CONSTRUCTION





REVISION DESCRIPTION ISSUED FOR BID

W.O. NO. CHK. A

ATE: 10/29/20 CHECKED BY: APPROVED BY:

SSUED FOR BID: AS NOTED SSUED FOR CONSTRUCTION: 26-26-85/GN.1

GENERAL SEEDING NOTES

- 1. IN NON-AGRICULTURAL AREAS, PREPARE A FIRM SEEDBED IN DISTURBED AREAS TO A DEPTH OF THREE (3) TO FOUR (4) INCHES USING APPROPRIATE EQUIPMENT. THE SEEDBED SHALL BE SCARIFIED IN AREAS TO BE HYDRO
- SEEDED TO FACILITATE LODGING AND GERMINATION OF SEED. 2. SEED DISTURBED AREAS IN ACCORDANCE WITH WRITTEN RECOMMENDATIONS FOR SEED MIXES, RATES, AND DATES AS DETAILED IN THE NY ECP ATTACHMENT 7 - SEEDING, FERTILIZER AND LIME RECOMMENDATIONS OR THE REVEGETATION/SEED MIXTURES PLAN UNLESS A SPECIFIC WRITTEN REQUEST IS MADE BY A LANDOWNER, LAND MANAGEMENT AGENCY OR APPLICABLE PERMITTING AGENCY FOR AGRICULTURAL LANDS ONLY. SEEDING SHALL NOT BE CONDUCTED IN ACTIVELY CULTIVATED CROPLANDS UNLESS REQUESTED IN WRITING BY THE LANDOWNER. PERMANENT SEEDING, CONSISTENT WITH THE IMPACTED FIELD'S SPECIFIC REQUIREMENTS, SHALL BE APPLIED IN LONG-TERM AND ROTATION HAYFIELDS AND PASTURES, AS WELL AS AGRICULTURAL CONSERVATION RESERVE PROGRAM (CRP) LANDS.
- 3. CONSTITUTION HAS PREPARED A WINTER CONSTRUCTION PLAN IN ANTICIPATION OF CONSTRUCTION ACTIVITIES PROGRESSING DURING THE LATE AUTUMN AND WINTER SEASONS. THE WINTER CONSTRUCTION PLAN IS INCLUDED AS ATTACHMENT 12 TO THE NY ECP.
- 4. PERFORM SEEDING OF PERMANENT VEGETATION WITHIN THE RECOMMENDED SEEDING DATES NOTED BELOW OR AS DETERMINED IN THE FIELD BY THE EI OR AI. IF SEEDING CANNOT BE DONE WITHIN THOSE DATES, USE APPROPRIATE TEMPORARY EROSION CONTROL MEASURES AND PERFORM SEEDING OF PERMANENT VEGETATION AT THE APPROPRIATE TIME WITHIN THE NEXT RECOMMENDED SEEDING SEASON BASED ON ROW SOIL.
- 5. DISTURBED SOILS SHALL BE SEEDED WITHIN SIX (6) WORKING DAYS OF FINAL GRADING, WEATHER AND SOIL CONDITIONS PERMITTING, UNLESS OTHERWISE REQUIRED BY THE APPLICABLE REGULATORY AGENCY, LANDOWNER OR LAND MANAGEMENT AGENCY.
- 6. SEEDING RATES SHALL BE BASED ON PURE LIVE SEED (PLS) RATE APPLICATIONS.7. ALL SEED SHALL BE USED WITHIN 12 MONTHS OF THE SEED TESTING DATE AS NOTED BY THE MANUFACTURER.
- 8. LEGUME SEED SHALL BE TREATED WITH AN INOCULANT SPECIFIC TO THE SPECIES USING THE MANUFACTURER'S RECOMMENDED RATE OF INOCULANT APPROPRIATE FOR THE SEEDING METHOD (BROADCAST, DRILL, OR HYDRO). 9. A SEED DRILL EQUIPPED WITH A CULTIPACKER SHALL BE THE PREFERRED SEED APPLICATION APPARATUS
- UNLESS WRITTEN RECOMMENDATIONS FROM AN APPLICABLE REGULATORY AUTHORITY SPECIFIES OTHERWISE. 10. ALL BROADCAST OR HYDRO SEEDING PERFORMED IN LIEU OF DRILLING SHALL BE PLACED AT DOUBLE THE RECOMMENDED SEEDING RATE. THE SEEDBED SHALL BE FIRMED WITH A CULTIPACKER OR ROLLER IN AREAS WHERE SEEDING IS PACED WITH THE BROADCAST METHOD. IN ROCKY SOILS OR WHERE SITE CONDITIONS MAY LIMIT THE EFFECTIVENESS OF THIS EQUIPMENT, OTHER ALTERNATIVES MAY BE APPROPRIATE (E.G., USE OF A
- CHAIN DRAG) TO LIGHTLY COVER THE SEED AFTER APPLICATION, AS APPROVED BY THE EL. 11. SEED SLOPE'S STEEPER THAN 30% IMMEDIATELY AFTER ROUGH GRADING IF FINAL GRADING WILL NOT OCCUR IMMEDIATELY, WEATHER PERMITTING.
- 12. ANY SEEDING CONDUCTED AFTER OCTOBER 15TH (LATE SEASON ROW STABILIZATION ACTIVITIES) WILL BE CONSIDERED "TEMPORARY", OR AS AN "INTERIM STABILIZATION MEASURE", AS IT MAY RESULT IN POOR SEED GERMINATION AND HIGH MORTALITY. TEMPORARY AND PERMANENT SEEDING OF AGRICULTURAL LANDS SHALL BE CONDUCTED IN ACCORDANCE WITH NYSDAM SEEDING, FERTILIZER AND LIME RECOMMENDATIONS. TEMPORARY AND PERMANENT SEED AND MULCH RATES CAN BE FOUND IN SECTION 10.4 OF THIS ECP.

TEMPORARY REVEGETATION

	Table 10.4-1 - Temporary Seeding and Mulching						
Mix	Туре	Components	Rates	Dates			
	Temporary Cover for Upland and	Annual or Perennial Ryegrass	1 lb / 1000 sq.ft.	Spring Summar or			
A	Wetland Areas	Fertilizer (5-10-10)	Not Required	Spring, Summer or Early Fall			
	Wetana Theas	Pulverized Agricultural Lime	Not Required	Early 1 an			
_	Temporary Cover for Upland and	'Aroostook' winter rye (cereal rye)	1 lb / 1000 sq.ft.				
В	Wetland Areas	Fertilizer (5-10-10)	Not Required Late Fall or Winte				
		Pulverized Agricultural Lime	Not Required				
	Mulch (Straw Only in Wetlands)	Hay/Straw	2 Tons per Acre				

TEMPORARY VEGETATION NOTES

AFTER GRADING AND EXCAVATION IS COMPLETED WITHIN AN AREA, VEGETATION WILL BE SOWN PROMPTLY AFTER CEASING EARTHWORK IN THOSE AREAS. HAY, STRAW MULCH, OR OTHER SIMILAR MATERIAL SHALL BE APPLIED TO NEWLY SEEDED AREAS TO PROTECT AGAINST EROSION UNTIL THE VEGETATION IS ESTABLISHED. HAY, STRAW MULCH, OR OTHER SIMILAR MATERIAL SHALL BE APPLIED AT A RATE OF AT LEAST TWO (2) TONS PER ACRE. THE SEED MIXES NOTED IN TABLE 10.4-1 ARE QUICK GERMINATING SEEDS THAT CAN BE APPLIED ANY TIME OF THE YEAR. ANY SEEDING COMPLETED AFTER OCTOBER 15TH WILL BE CONSIDERED "TEMPORARY". OR AS AN "INTERIM STABILIZATION MEASURE", AS IT MAY RESULT IN POOR SEED GERMINATION AND HIGH MORTALITY. DISTURBED AREAS THAT ARE FINAL GRADED BETWEEN JUNE 1ST & AUGUST 1ST AND OCTOBER 15TH & MARCH 15TH (OF THE FOLLOWING YEAR) SHALL BE SEEDED WITH THE TEMPORARY SEED MIXES NOTED IN TABLE 10.4-1 TO ENSURE QUICK ESTABLISHMENT. LOCATIONS THAT ARE SEEDED WITH TEMPORARY SEED MIXES SHALL BE SUPPLEMENTED WITH THE APPROPRIATE PERMANENT SEED MIX DURING THE DATE WINDOWS OF MARCH 15TH TO JUNE 1ST AND AUGUST 1ST

PERMANENT REVEGETATION

PERMANENT REVEGETATION NOTES

TOPSOIL WILL BE REPLACED PRIOR TO PERMANENT STABILIZATION IN APPLICABLE LOCATIONS ALONG THE PROJECT ROW. DISTURBED AREAS SHALL BE SEEDED WITH THE APPROPRIATE SEED MIXTURE AS OUTLINED IN TABLE 10.4-2. LIME AND FERTILIZER SHALL BE APPLIED IN ACCORDANCE WITH SOIL TEST RECOMMENDATIONS. HAY, STRAW MULCH, OR OTHER SIMILAR MATERIAL SHALL BE APPLIED AT A RATE OF AT LEAST TWO (2) TONS PER ACRE. UNLESS OTHERWISE REQUIRED BY APPLICABLE REGULATORY AGENCIES. THE PERMANENT SEED MIXES NOTED IN TABLE 10.4-2 SHALL BE APPLIED BETWEEN MARCH 15TH TO JUNE 1ST AND AUGUST 1ST TO OCTOBER 15TH, INCLUDING AREAS WHERE ONLY TEMPORARY SEED MIXES HAVE BEEN APPLIED. TEMPORARY SEED MIXES NOTED IN TABLE 10.4-1 WILL BE APPLIED TO ALL DISTURBED AREAS OUTSIDE OF THE NOTED PERMANENT SEED MIX WINDOWS. THE SEED MIXES NOTED IN TABLES 10.4-2 AND 10.4-3 WERE DEVELOPED FROM THE NEW YORK DEC BLUEBOOK (AUGUST 2005).

Seed Mixture	Variety	Rates in lbs. per acre	Rate in lbs. per 1000 sq. ft.
Mix #1			
Creeping Red Fescue Perennial Ryegrass	Ensylva, Pennlawn, Boreal Pennfine, Linn	10 10	.25 .25
*This mix is used exte	ensively for Shaded Areas		
Mix #2			
Switchgrass	Shelter, Pathfinder, Trailblazer, or Blackwell	20	.5
wetland to filter runof	ive seed, this would be an exce f and provide wildlife benefits. sand lovegrass should be adde 1000 sq. ft.).	In areas where erosi	on may be a problem, a
Switchgrass	Shelter, Pathfinder, Trailblazer, or Blackwell	4	.1
Die Diesekens	Niagara	4	.1
			. 1
Little Bluestem	Alodous or Camper	2	.05
Little Bluestem Indiangrass		4	
Little Bluestem Indiangrass Coastal Panicgrass	Alodous or Camper Rumsey Atlantic	4 2	.05 .1 .05
Little Bluestem Indiangrass Coastal Panicgrass	Alodous or Camper Rumsey	4	.05 .1
Little Bluestem Indiangrass Coastal Panicgrass Sideoats Grama Wildflower Mix	Alodous or Camper Rumsey Atlantic El Reno or Trailway	4 2 2 .5	.05 .1 .05 .05
warm season grass see	Alodous or Camper Rumsey Atlantic	4 2 2 .5 antings. It is very diff. Broadcasting this se	.05 .1 .05 .05 .01 ficult to seed without a ed is very difficult due
Little Bluestem Indiangrass Coastal Panicgrass Sideoats Grama Wildflower Mix *This mix has been so warm season grass see	Alodous or Camper Rumsey Atlantic El Reno or Trailway accessful on sand and gravel pla eder such as a Truax seed drill.	4 2 2 .5 antings. It is very diff. Broadcasting this se	.05 .1 .05 .05 .01 ficult to seed without a ed is very difficult due
Little Bluestem Indiangrass Coastal Panicgrass Sideoats Grama Wildflower Mix *This mix has been su warm season grass see to the fluffy nature of Mix #6	Alodous or Camper Rumsey Atlantic El Reno or Trailway accessful on sand and gravel pla eder such as a Truax seed drill.	4 2 2 .5 antings. It is very diff. Broadcasting this se	.05 .1 .05 .05 .01 ficult to seed without a ed is very difficult due
Little Bluestem Indiangrass Coastal Panicgrass Sideoats Grama Wildflower Mix *This mix has been su warm season grass see to the fluffy nature of Mix #6 Creeping Red Fescue	Alodous or Camper Rumsey Atlantic El Reno or Trailway accessful on sand and gravel pla eder such as a Truax seed drill. some of the seed, such as blues	4 2 2 .5 minings. It is very diff. Broadcasting this settems and indiangras	.05 .1 .05 .05 .01 ficult to seed without a ed is very difficult due s.
Little Bluestem Indiangrass Coastal Panicgrass Sideoats Grama Wildflower Mix *This mix has been su warm season grass see to the fluffy nature of Mix #6 Creeping Red Fescue Tall Fescue	Alodous or Camper Rumsey Atlantic El Reno or Trailway accessful on sand and gravel pla eder such as a Truax seed drill. some of the seed, such as blues Ensylva, Pennlawn, Boreal	4 2 2 .5 mitings. It is very diff. Broadcasting this setterns and indiangras	.05 .1 .05 .05 .01 ficult to seed without a ed is very difficult due s.
Little Bluestem Indiangrass Coastal Panicgrass Sideoats Grama Wildflower Mix *This mix has been su warm season grass see to the fluffy nature of Mix #6 Creeping Red Fescue Tall Fescue Perennial Ryegrass Birdsfoot Trefoil	Alodous or Camper Rumsey Atlantic El Reno or Trailway accessful on sand and gravel placeder such as a Truax seed drill. some of the seed, such as blues Ensylva, Pennlawn, Boreal KY 31, Rebel	4 2 2 .5 mitings. It is very diff. Broadcasting this settems and indiangras 20 20 20 5 10	.05 .1 .05 .05 .01 ficult to seed without a ed is very difficult due s. .45 .45

	es (well, moderately well, and somewhat po meral recreation areas and lawns (Medium t 65% Kentucky bluegrass blend		
b. Ge	·	to high maintenance)	
	65% Kentucky hluegrass blend		
	0370 Remacky bluegrass blend	2.0-2.6	85-114
	20% perennial ryegrass	0.6-0.8	26-35
	15% fine fescue	0.4-0.6	19-2
	<u>OR</u>	<u>3.0-4.0</u>	<u>130-175</u>
	100% Tall fescue, Turf-type, fine leaf	3.4-4.6	150-200
excessivery (o excessively drained soils). Excluding Lor 65% fine fescue		114-14
		2.6-3.3	114-143
	15% perennial ryegrass	0.6-0.7	26-33
	20% Kentucky bluegrass blend	0.8-1.0	35-44
	OR	4.0-5.0	<u>175-220</u>
	100% Tall fescue, Turf-type, fine lea	3.4-4.6	150-200
3. Shady dry	sites (well to somewhat poorly drained soil		
	65% fine fescue	2.6-3.3	114-143
	15% perennial ryegrass	0.6-0.7	26-33
	20% Kentucky bluegrass blend	0.8-1.0	35-44
	OR	4.0-5.0	174-220
	80% blend of shade-tolerant Kentucky bluegrass	2.4-3.2	105-138
	20% perennial ryegrass	0.6-0.8	25-37
	OR	3.0-4.0	<u>130-173</u>

MULCH - MULCHING FOR ALL SEED MIXTURES SHALL BE AT A RATE OF TWO (2) TONS PER ACRE, AND ANCHORED WITH A NETTING OR TACKIFIER.

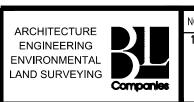
SOIL AMENDMENTS - SOIL AMENDMENTS SHOULD BE INCORPORATED INTO THE UPPER 2 INCHES OF SOIL WHEN FEASIBLE. THE SOIL SHOULD BE TESTED TO DETERMINE THE AMOUNTS OF AMENDMENTS NEEDED. APPLY GROUND AGRICULTURAL LIMESTONE TO ATTAIN A PH OF 6.0 IN THE UPPER 2 INCHES OF SOIL. IF SOIL MUST BE FERTILIZED BEFORE RESULTS OF A SOIL TEST CAN BE OBTAINED TO DETERMINE FERTILIZER NEEDS, APPLY COMMERCIAL FERTILIZER AT 600 LBS. PER ACRE OF 5-10-10 OR EQUIVALENT. IF MANURE IS USED, APPLY A QUANTITY TO MEET THE NUTRIENTS OF THE ABOVE FERTILIZER. THIS REQUIRES AN APPROPRIATE MANURE ANALYSIS PRIOR TO APPLYING TO THE SITE. MANURE WILL NOT BE USED ON SITES PLANTED WITH BIRDSFOOT TREFOIL OR IN THE PATH OF CONCENTRATED WATER FLOW.

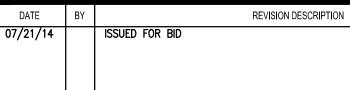
THE ABOVE NOTED SEED MIXES ARE SUBJECT TO CHANGE.

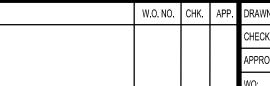
CONSTITUTION PIPELINE COMPANY, LLC PROPOSED 30" NATURAL GAS PIPELINE ACCESS ROADS - ROAD DESIGN PLAN

AS NOTED

ISSUED FOR BID







SSUED FOR BID: SSUED FOR CONSTRUCTION: CHECKED BY: APPROVED BY: 26-26-85/GN.2

GENERAL NOTES 2 OF 3

NOT FOR CONSTRUCTION

RECYCLING AND DISPOSAL METHODS

CONTRACTORS ARE REQUIRED TO INVENTORY AND MANAGE THEIR CONSTRUCTION SITE MATERIALS. THE GOAL IS TO BE AWARE OF THE MATERIALS ON—SITE, ENSURE THEY ARE PROPERLY MAINTAINED, USED, AND DISPOSED OF, AND TO MAKE SURE THE MATERIALS ARE NOT EXPOSED TO STORMWATER.

MATERIALS COVERED

THE FOLLOWING MATERIALS OR SUBSTANCES ARE EXPECTED TO BE PRESENT ON—SITE DURING CONSTRUCTION (NOTE: THIS LIST IS NOT AN ALL—INCLUSIVE LIST AND THE MATERIALS MANAGEMENT PLAN CAN BE MODIFIED TO ADDRESS ADDITIONAL MATERIALS USED ON—SITE):

- ACIDS
- DETERGENTS
- FERTILIZERS (NITROGEN/PHOSPHORUS)HYDROSEEDING MIXTURES
- PETROLEUM BASED PRODUCTS
 SANITARY WASTES
- SANITARY WASTES
- SOIL STABILIZATION ADDITIVES
- SOLDER

THESE MATERIALS MUST BE STORED AS APPROPRIATE AND SHALL NOT CONTACT STORM OR NON-STORMWATER DISCHARGES. CONTRACTOR SHALL PROVIDE A WEATHER PROOF CONTAINER TO STORE CHEMICALS OR ERODIBLE SUBSTANCES THAT MUST BE KEPT ON THE SITE. CONTRACTOR IS RESPONSIBLE FOR READING, MAINTAINING, AND MAKING EMPLOYEES AND SUBCONTRACTORS AWARE OF MATERIAL SAFETY DATA SHEETS (MSDSs).

MATERIAL MANAGEMENT PRACTICES

THE FOLLOWING ARE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORMWATER RUNOFF.

1. GOOD HOUSEKEEPING PRACTICES

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ON SITE DURING CONSTRUCTION:

- STORE ONLY ENOUGH MATERIAL REQUIRED TO DO THE JOB.
- STORE MATERIALS IN A NEAT, ORDERLY MANNER.
 STORE CHEMICALS IN WATERTIGHT CONTAINERS OR IN A STORAGE SHED, UNDER A ROOF, COMPLETELY ENCLOSED, WITH APPROPRIATE SECONDARY CONTAINMENT TO
- PREVENT SPILL OR LEAKAGE. DRIP PANS SHALL BE PROVIDED UNDER DISPENSERS.

 SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
- MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
- INSPECTIONS WILL BE PERFORMED TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS.
- COVER AND BERM LOOSE STOCKPILED CONSTRUCTION MATERIALS THAT ARE NOT ACTIVELY BEING USED (I.E. SOIL, SPOILS, AGGREGATE, ETC.).
 MINIMIZE EXPOSURE OF CONSTRUCTION MATERIALS TO PRECIPITATION.
- MINIMIZE THE POTENTIAL FOR OFF-SITE TRACKING OF LOOSE CONSTRUCTION AND LANDSCAPE MATERIALS.

2. HAZARDOUS PRODUCTS

THESE PRACTICES WILL BE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS. MSDSS FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE(S) WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. A MSDS WILL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH MSDS WILL BE MAINTAINED IN A FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.

- PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS WITH THE ORIGINAL LABELS IN LEGIBLE CONDITION.
- ORIGINAL LABELS AND MSDSS WILL BE PRODUCED AND USED FOR EACH MATERIAL.
 IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL/STATE/FEDERAL RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

3. HAZARDOUS WASTES

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF BY THE CONTRACTOR IN THE MANNER SPECIFIED BY LOCAL, STATE, AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. SITE PERSONNEL WILL BE INSTRUCTED.

4. CONCRETE AND OTHER WASH WATERS

PREVENT DISPOSAL OF RINSE, WASH WATERS, OR MATERIALS ON IMPERVIOUS OR PERVIOUS SURFACES, INTO STREAMS, WETLANDS OR OTHER WATER

CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE, BUT ONLY IN EITHER (1) SPECIFICALLY DESIGNATED DIKED AREAS WHICH HAVE BEEN PREPARED TO PREVENT CONTACT BETWEEN THE CONCRETE AND/OR WASHOUT AND SOIL AND STORMWATER HAVING THE POTENTIAL TO BE DISCHARGED FROM THE SITE OR (2) IN LOCATIONS WHERE WASTE CONCRETE CAN BE POURED INTO FORMS TO MAKE RIPRAP OR OTHER USEFUL CONCRETE PRODUCTS.

THE HARDENED RESIDUE FROM THE CONCRETE WASHOUT DIKED AREAS WILL BE DISPOSED OF IN THE SAME MANNER AS OTHER NON—HAZARDOUS CONSTRUCTION WASTE MATERIALS OR MAY BE BROKEN UP AND USED ON THE SITE AS DEEMED APPROPRIATE BY THE CONTRACTOR AND GEOTECHNICAL ENGINEER. THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

ALL CONCRETE WASHOUT AREAS WILL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE AREA CONTRIBUTING TO STORMWATER DISCHARGE IS NEGLIGIBLE. IF REQUIRED, ADDITIONAL BMPS MUST BE IMPLEMENTED TO PREVENT CONCRETE WASTES FROM CONTRIBUTING TO STORMWATER DISCHARGES. THE LOCATION OF THE CONCRETE WASHOUT AREA(S) MUST BE IDENTIFIED, BY THE CONTRACTOR/JOB SITE SUPERINTENDENT, ON THE JOB SITE COPY OF THE EROSION AND SEDIMENT CONTROL PLAN(S) IN THIS ESCP.

5. SANITARY WASTES

ALL SANITARY WASTE UNITS WILL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORMWATER DISCHARGES IS NEGLIGIBLE. ADDITIONAL BMPS MUST BE IMPLEMENTED, SUCH AS CONTAINMENT TRAYS (PROVIDED BY THE RENTAL COMPANY) OR SPECIAL CONTAINMENT CREATED WITH 2"X4" LUMBER, IMPERVIOUS PLASTIC, AND GRAVEL. THE LOCATION OF THE SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE JOB SITE COPY OF THE EROSION AND SEDIMENT CONTROL PLAN(S), IN THIS ESCP, BY THE CONTRACTOR/JOB SITE SUPERINTENDENT.

6. SOLID AND CONSTRUCTION WASTES

ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL COMPLY WITH ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER/CONTAINER LIDS SHALL BE CLOSED AT THE END OF EVERY BUSINESS DAY AND DURING RAIN EVENTS. APPROPRIATE MEASURES SHALL BE TAKEN TO PREVENT DISCHARGES FROM WASTE DISPOSAL CONTAINERS TO THE RECEIVING WATER.

7. CONSTRUCTION ACCESS

A STABILIZED CONSTRUCTION EXIT WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED ROADS ADJACENT TO THE SITE ENTRANCE WILL BE INSPECTED DAILY AND SWEPT AS NECESSARY TO REMOVE ANY EXCESS MUD, DIRT, OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN AS NECESSARY.

8. PETROLEUM PRODUCTS

ON-SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. PETROLEUM STORAGE TANKS ON SITE WILL HAVE A DIKE OR BERM CONTAINMENT STRUCTURE CONSTRUCTED AROUND IT TO CONTAIN SPILLS WHICH MAY OCCUR (CONTAINMENT VOLUME TO BE 110% OF VOLUME STORED). THE DIKE OR BERMED AREA SHALL BE LINED WITH AN IMPERVIOUS MATERIAL SUCH AS A HEAVY DUTY PLASTIC SHEET. DRIP PANS SHALL BE PROVIDED FOR ALL DISPENSERS. ANY ASPHALT SUBSTANCES USED ON THE SITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

9. FERTILIZERS AND LANDSCAPE MATERIALS

FERTILIZERS WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO MINIMIZE THE POTENTIAL FOR EXPOSURE TO STORMWATER. STORAGE WILL BE UNDER COVER. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO MINIMIZE THE POTENTIAL FOR SPILLS. THE BIN SHALL BE LABELED APPROPRIATELY.

CONTAIN STOCKPILED MATERIALS, SUCH AS BUT NOT LIMITED TO, MULCHES, TOP SOIL, ROCKS AND GRAVEL, AND DECOMPOSED GRANITE, WHEN THEY ARE NOT ACTIVELY BEING USED.

APPLY ERODIBLE LANDSCAPE MATERIAL AT QUANTITIES AND APPLICATION RATES ACCORDING TO MANUFACTURER RECOMMENDATIONS OR BASED ON WRITTEN SPECIFICATIONS BY KNOWLEDGEABLE AND EXPERIENCED FIELD PERSONNEL. DISCONTINUE THE APPLICATION OF ANY ERODIBLE LANDSCAPE MATERIAL WITHIN TWO DAYS PRIOR TO A FORECASTED RAIN EVENT OR DURING PERIODS OF PRECIPITATION.

10. PAINTS, PAINT SOLVENTS AND CLEANING SOLVENTS

CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT IN USE. EXCESS PAINT AND SOLVENTS WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR LOCAL/STATE/FEDERAL REGULATIONS.

11. CONTAMINATED SOILS

ANY CONTAMINATED SOILS (RESULTING FROM SPILLS OF MATERIALS WITH HAZARDOUS PROPERTIES) WHICH MAY RESULT FROM CONSTRUCTION ACTIVITIES WILL BE CONTAINED AND CLEANED UP IMMEDIATELY IN ACCORDANCE WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

MAINTENANCE PROGRAM

THE FOLLOWING INSPECTION AND MAINTENANCE PRACTICES WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS AND STABILIZATION MEASURES:

- ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED ONCE EVERY SEVEN DAYS AND WITHIN 24 HOURS OF EACH 0.5 INCH OR GREATER RAINFALL EVENT.
 ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF REPAIRS OR ADDITIONAL MEASURES ARE FOUND TO BE NECESSARY, THEY WILL BE INITIATED WITHIN 24 HOURS OF THE
- INSPECTION REPORT.

 BUILT UP SEDIMENT WILL BE REMOVED FROM PERIMETER BMPS WHEN IT HAS REACHED ONE—HALF THE HEIGHT OF THE FENCE.
- PERIMETER BMPS WILL BE INSPECTED FOR DEPTH OF SEDIMENT, DAMAGE, ETC., TO ENSURE THE MEASURE IS IN PROPER WORKING ORDER, AND THAT ANY POSTS/WOOD STAKES ARE
- SECURELY IN THE GROUND.

 TEMPORARY SEDIMENT TRAPS, IF PRESENT, WILL BE INSPECTED FOR DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 33-50% THE DESIGN DEPTH.
- TEMPORARY AND PERMANENT SEEDING, AND OTHER STABILIZATION MEASURES, WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
- A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. COPIES OF THE REPORT FORMS TO BE COMPLETED BY THE INSPECTOR ARE INCLUDED IN THE NY SWPPP.
 THE INSPECTOR WILL IMPLEMENT INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS THAT ARE USED ON THE SITE IN GOOD
- WORKING ORDER. THE INSPECTOR WILL ALSO BE TRAINED IN THE COMPLETION OF, INITIATION OF ACTIONS REQUIRED BY, AND THE FILING OF THE INSPECTION FORMS.

 DISTURBED AREAS AND MATERIALS STORAGE AREAS WILL BE INSPECTED FOR EVIDENCE OF OR POTENTIAL FOR POLLUTANTS ENTERING THE STORMWATER.

A COPY OF THE NY SWPPP AND ECP WILL BE AVAILABLE ON THE SITE AT ALL TIMES.

ONCE ANY EROSION CONTROL MEASURES ARE INSTALLED, THE MAINTENANCE AND INSPECTION PROCEDURES ABOVE SHALL BEGIN. THE CONTRACTOR SHOULD BE AWARE THAT THE INSPECTION FORMS BECOME AN INTEGRAL PART OF THE ESCP AND SHALL BE MADE READILY AVAILABLE TO THE GOVERNMENT INSPECTION OFFICIALS, THE PROJECT OWNER'S ENGINEER, AND THE PROJECT OWNER FOR REVIEW UPON REQUEST DURING VISITS TO THE PROJECT SITE.

INSPECTORS SHOULD BE KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICE OF EROSION AND SEDIMENT CONTROLS AND POSSESS THE SKILLS TO ASSESS CONDITIONS AT THE CONSTRUCTION SITE THAT COULD IMPACT STORMWATER QUALITY AND TO ASSESS THE EFFECTIVENESS OF ANY SEDIMENT AND EROSION CONTROL MEASURES SELECTED TO CONTROL THE QUALITY OF STORMWATER DISCHARGES FROM THE CONSTRUCTION SITE. THEY SHOULD ALSO HAVE READ AND UNDERSTOOD ALL PORTIONS OF THE NY SWPPP INCLUDING THE NY ECP..

THE INDIVIDUAL(S) RESPONSIBLE FOR POST—STORM AND STORM EVENT BMP INSPECTIONS, AND THE QUALIFIED PERSON(S) ASSIGNED RESPONSIBILITY TO ENSURE FULL COMPLIANCE WITH THE PERMIT AND IMPLEMENTATION OF ALL ELEMENTS OF THE ESCP, INCLUDING THE PREPARATION OF THE ANNUAL COMPLIANCE EVALUATION AND THE ELIMINATION OF ALL UNAUTHORIZED DISCHARGES ARE:

LEGEND

EXISTING FEATURES PROPOSED FEATURES 1460——— MAJOR CONTOUR (10' INTERVAL) PROPERTY BOUNDARY LINE (APPROXIMATE) — MINOR CONTOUR (2' INTERVAL) ------ EASEMENT LINE (APPROXIMATE) _____LOD _____ LIMIT OF DISTURBANCE _____1460______ MAJOR CONTOUR (10' INTERVAL) MINOR CONTOUR (2' INTERVAL) ____>_____> SWALE FENCE _____LIMIT OF PERMANENT RIGHT-OF-WAY (APPROXIMATE, BY OTHERS) STONE ROW _____ - _____ - _____ - ____ LIMIIT OF TEMPORARY WORKSPACE (APPROXIMATE, BY OTHERS) TREELINE CENTERLINE CONSTITUTION PIPELINE (APPROXIMATE, BY OTHERS) CENTERLINE STREAM/EDGE WATERBODY DELINEATED WETLANDS STONE LEVEL SPREADER STONE CHECK DAM × 1353.0 SPOT ELEVATION TREE OR BUSH UTILITY POLE GUY POLE GUY POLE OR ANCHOR

CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
ACCESS ROADS — ROAD DESIGN PLAN

GENERAL NOTES 3 OF 3



AS NOTED

ISSUED FOR BID
NOT FOR CONSTRUCTION

POST

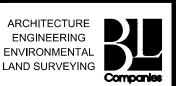
WATER WELL

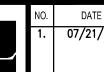
UTILITY BOX

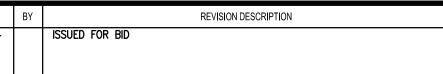
IRON PIPE OR PIN

MONUMENT (PROPERTY BOUNDARY MARKER)

(PROPERTY BOUNDARY MARKER)







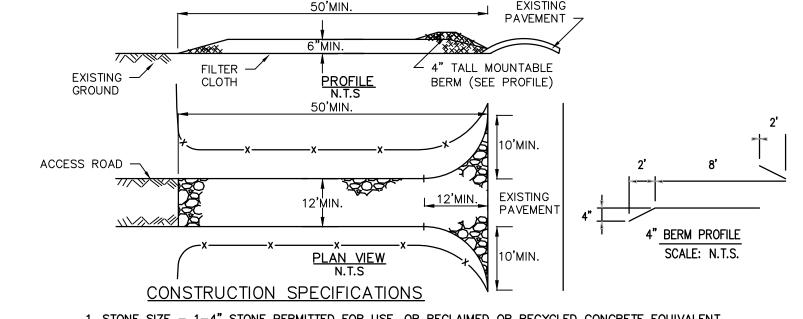
W.O. NO. CHK. APP. DRAWN BY:
CHECKED BY:
APPROVED BY:

 WN BY:
 DATE:
 10/29/2013
 ISSUED FOR BID:
 SC

 CKED BY:
 DATE:
 ISSUED FOR CONSTRUCTION:
 ISSUED FOR CONSTRUCTION:

 COVED BY:
 DATE:
 DRAWING NUMBER:
 26-26-85/GN.3

26-26-85/GN.3 SHEET OF 1

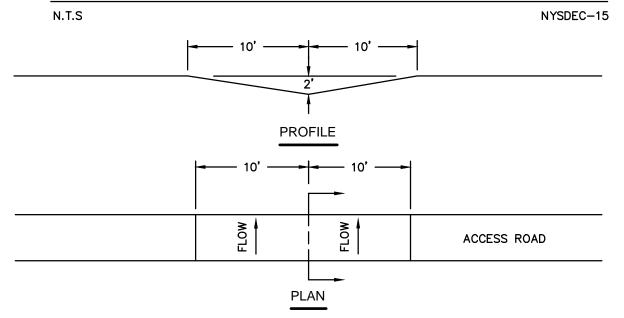


- 1. STONE SIZE 1-4" STONE PERMITTED FOR USE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- 2. LENGTH NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
- 3. THICKNESS NOT LESS THAN SIX (6) INCHES.
- 4. WIDTH TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
- 5. FILTER CLOTH WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. GEOTEXTILE MUST MEET CRITERIA IN TABLE BELOW.
- 6. SURFACE WATER ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE
- 7. 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 TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- 8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- 9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN EVENT.

ABLE:	CRITERIA	FOR	GEOTEXTILE	LIGHT DUTY ROADS	HEAVY DUTY HAUL ROADS	
			FABRIC <u>PROPERTIES</u>	GRADE SUBGRADE	ROUGH	TEST <u>METHOD</u>
			GRAB TENSILE STRENGTH (LBS)	200	220	ASTM D1682
			ELONGATION AT FAILURE (%)	50	60	ASTM D1682
			MULLEN BRUST STRENGTH (LBS)	190	430	ASTM D3786
			PUNCTURE STRENGTH (LBS)	40	125	ASTM D3786 MODIFIED
			EQUIVALENT OPENING SIZE	40-80	40-80	US STD SIEVE CW-02215

AGGREGATE DEPTH 6

STABILIZED CONSTRUCTION ENTRANCE DETAIL



BROAD-BASED DIPS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN AND AT THE LOCATIONS SHOWN ON THE PLAN DRAWINGS.

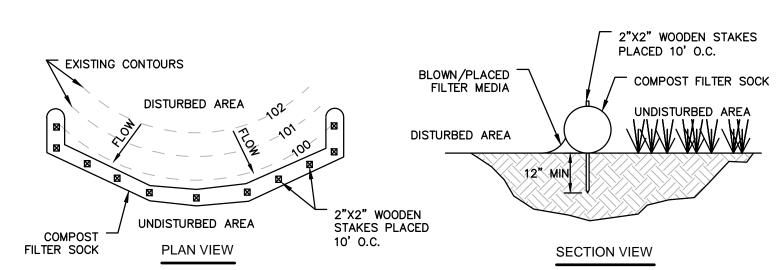
DIPS SHALL BE ORIENTED SO AS TO DISCHARGE TO THE LOW SIDE OF THE ROADWAY

DIPS SHALL BE INSPECTED DAILY. DAMAGED OR NON-FUNCTIONING DIPS SHALL BE REPAIRED BY THE END OF THE

MAXIMUM SPACING OF BROAD-BASED DIPS SHALL BE AS SHOWN IN TABLE 3.2 FOUND IN PENNSYLVANIA DEP EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL.

BROAD-BASED DIP FOR LOW GRADIENT (≤5%) ROADWAYS DETAIL

PADEP-3-6



SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 FOUND IN NYSDEC EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2.

COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN SOCK ALIGNMENT (FIGURE 4.1 FOUND IN PENNSYLVANIA DEP EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL). MAXIMUM SLOPE LENGTH ABOVE ANY SOCK SHALL NOT EXCEED THAT SHOWN ON FIGURE 4.2. STAKES MAY BE INSTALLED IMMEDIATELY DOWNSLOPE OF THE SOCK IF SO SPECIFIED BY THE MANUFACTURER.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.

N.T.S

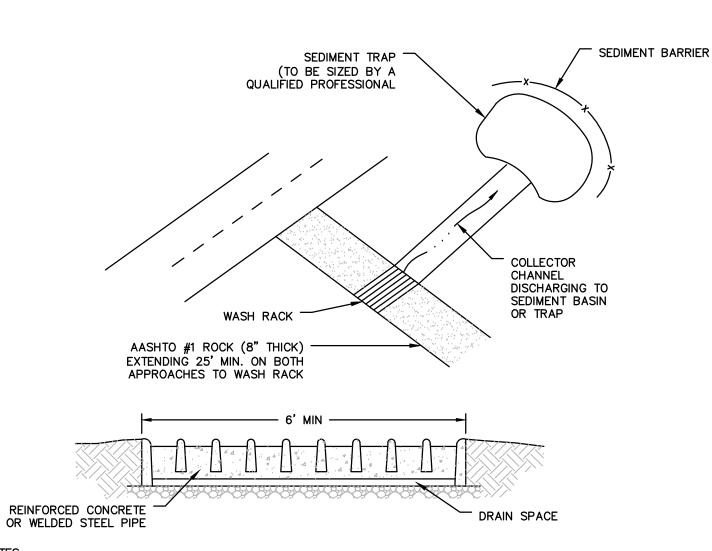
ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE ABOVEGROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

BIODEGRADABLE FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

COMPOST FILTER SOCK DETAIL



1. WASH RACK SHALL BE 20 FEET (MIN.) WIDE OR TOTAL WIDTH OF ACCESS.

N.T.S

3% OUTSLOPE

N.T.S

- 2. WASH RACK SHALL BE DESIGNED AND CONSTRUCTED TO ACCOMMODATE ANTICIPATED CONSTRUCTION VEHICULAR TRAFFIC.
- 3. A WATER SUPPLY SHALL BE MADE AVAILABLE TO WASH THE WHEELS OF ALL VEHICLES EXITING THE SITE.
- 4. MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE OF ROCK MATERIAL SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. DRAIN SPACE UNDER WASH RACK SHALL BE KEPT OPEN AT ALL TIMES. DAMAGE TO THE WASH RACK SHALL BE REPAIRED PRIOR TO FURTHER USE OF THE RACK. ALL SEDIMENT DEPOSITED ON ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE

COURSES IS NOT ACCEPTABLE. **ROCK CONSTRUCTION ENTRANCE** WITH OPTIONAL WASH RACK DETAIL

- TOTAL DIP LENGTH 100' -----CRUSHED STONE ON DIP ALIGNED STRAIGHT SLOPES ACROSS ROAD **GREATER**

MINIMUM DEPTH = 12"

- DIP SPACING

NYSDEC-15B

THAN 8%

PADEP-3-7

BROAD-BASED DIPS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN AND AT THE LOCATIONS SHOWN ON THE PLAN DRAWINGS.

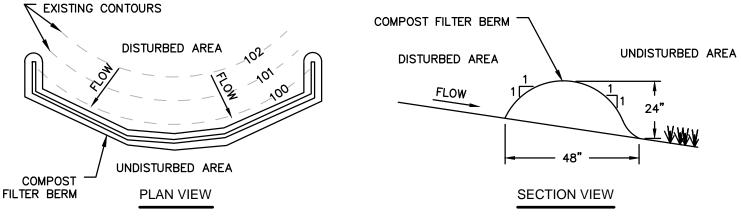
DIPS SHALL BE ORIENTED SO AS TO DISCHARGE TO THE LOW SIDE OF THE ROADWAY. DIPS SHALL BE INSPECTED DAILY. DAMAGED OR NON-FUNCTIONING DIPS SHALL BE REPAIRED BY THE END OF THE

MAXIMUM SPACING OF BROAD-BASED DIPS SHALL BE AS SHOWN IN TABLE 3.2 FOUND IN PENNSYLVANIA DEP

EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL.

BROAD-BASED DIP FOR LOW GRADIENT (5% - 10%) ROADWAYS DETAIL





COMPOST SHALL MEET THE STANDARDS IN TABLE 4.2 FOUND IN NYSDEC EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL.

COMPOST FILTER BERMS SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BERM SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BERM ALIGNMENT (SEE FIGURE 4.1 FOUND IN PENNSYLVANIA DEP EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL).

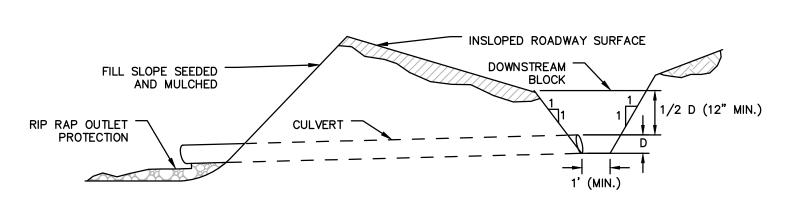
THE MAXIMUM SLOPE LENGTH ABOVE A COMPOST FILTER BERM SHALL NOT EXCEED THAT SHOWN IN TABLE 4.4 FOUND IN PENNSYLVANIA DEP EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL FOR THE STANDARD SILT FENCE (18" HIGH FENCE).

TALL GRASS SHALL BE CUT PRIOR TO INSTALLATION TO MINIMIZE POTENTIAL FOR UNDERCUTTING. BERM SHALL BE NETTED OR OTHERWISE ANCHORED AFTER INSTALLATION.

SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE ABOVEGROUND HEIGHT OF THE BERM. ANY SECTION COMPOST FILTER BERM WHICH HAS BEEN UNDERMINED OR TOPPED SHALL BE IMMEDIATELY REPLACED. CONCENTRATED FLOWS SHALL NOT BE DIRECTED TOWARD ANY COMPOST FILTER BERM.

COMPOST FILTER BERM DETAIL

N.T.S



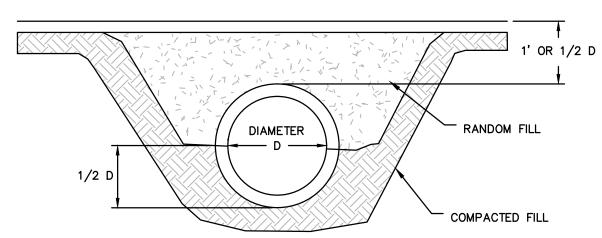
CUT AND FILL SLOPES SHALL BE STABILIZED IMMEDIATELY UPON COMPLETION OF ROADWAY GRADING. THESE AREAS SHALL BE BLANKETED WHEREVER THEY ARE LOCATED WITHIN 50 FEET OF A SURFACE WATER OR WITHIN 100 FEET OF AN HQ OR EV SURFACE WATER OR WHERE A SUITABLE VEGETATIVE FILTER STRIP DOES NOT EXIST. A TOP DRESSING COMPOSED OF HARD, DURABLE STONE SHALL BE PROVIDED FOR SOILS HAVING LOW STRENGTH. ROADSIDE DITCHES SHALL BE PROVIDED WITH ADEQUATE PROTECTIVE LINING.

ADEQUATELY SIZED CULVERTS OR OTHER SUITABLE CROSS DRAINS SHALL BE PROVIDED AT ALL SEEPS, SPRINGS, AND DRAINAGE COURSES. DITCH RELIEF CULVERTS SHALL BE PROVIDED AT THE INTERVALS INDICATED ON TABLE 3.3 OR TABLE 3.4 FOUND IN PENNSYLVANIA DEP EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL RIPRAP OUTLET PROTECTION TO BE SIZED ACCORDING TO ANTICIPATED DISCHARGE VELOCITY.

ROADWAY SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED ROADWAYS, DITCHES, OR CROSS DRAINS SHALL BE REPAIRED IMMEDIATELY.

INSLOPED ROADWAY DETAIL

PADEP-3-4



MINIMUM DIAMETER FOR ANY CULVERT IS 12"; OTHERWISE CULVERT SHALL BE SIZED FOR ANTICIPATED PEAK FLOW. PLACE CULVERT SO BOTTOM IS AT SAME LEVEL AS BOTTOM OF DITCH OR ADJOINING SLOPE. CULVERTS SHALL BE PLACED WITH A SLOPE OF 2 TO 4%. LOWER END SHALL BE AT LEAST 2" BELOW UPPER END. EXTEND CULVERT 12" BEYOND BASE OF ROAD FILL ON BOTH SIDES. FIRMLY PACK FILL AROUND CULVERT,

PROVIDE SUITABLE OUTLET PROTECTION* AND, WHERE APPROPRIATE, INLET PROTECTION.

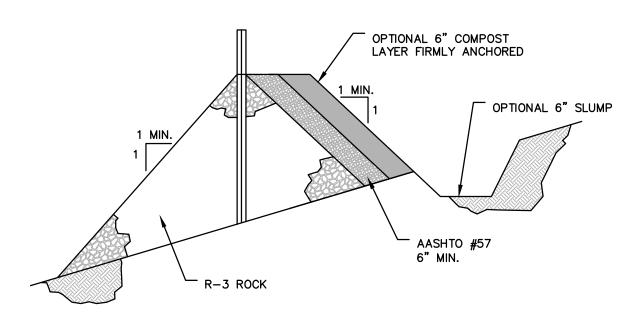
ESPECIALLY THE BOTTOM HALF.

INSPECT CULVERT WEEKLY: REMOVE ANY FLOW OBSTRUCTIONS AND MAKE NECESSARY REPAIRS IMMEDIATELY. NOTE: THIS DETAIL MAY BE USED FOR DITCH RELIEF CULVERTS AND FOR CROSSINGS OF ROADSIDE DITCHES. IT IS NOT APPROPRIATE FOR STREAM CROSSINGS.

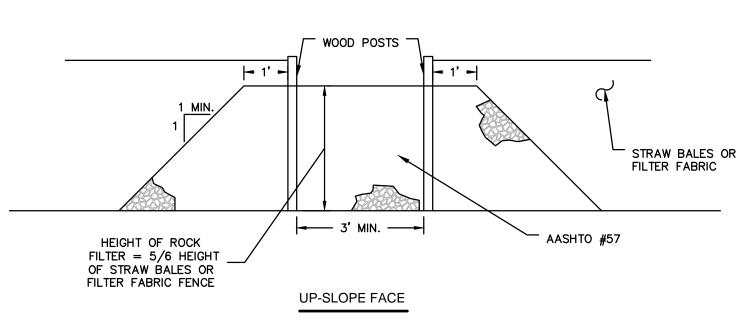
*FOR STEEP SLOPE (GREATER THAN OR EQUAL TO 2H:1V) OUTFALLS, A MINIMUM 20 FOOT LONG R-5 APRON IS RECOMMENDED FOR TEMPORARY ACCESS ROADS WHERE THE RECOMMENDED CULVERT SPACING IS USED. FOR PERMANENT ACCESS ROADS, A MINIMUM R-6 ROCK SIZE IS RECOMMENDED.

DITCH RELIEF CULVERT DETAIL

PADEP-3-10



OUTLET CROSS-SECTION



A ROCK FILTER OUTLET SHALL BE INSTALLED WHERE FAILURE OF A SILT FENCE OR STRAW BALE BARRIER HAS OCCURRED DUE TO CONCENTRATED FLOW. ANCHORED COMPOST LAYER SHALL BE USED ON UPSLOPE FACE IN HQ

SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE OUTLET.

ROCK FILTER OUTLET DETAIL

NYSDEC-23

NOT RECOMMENDED FOR ACTIVE ROADS ORIGINAL ROAD GRADE GRADIENT TO LOW

SIDE OF ROAD THIS WATERBAR DETAIL IS SPECIFIC TO ACCESS ROAD LOCATIONS ONLY AND SHALL NOT BE USED OVERTOP OF

WATERBARS SHALL DISCHARGE TO A STABLE AREA.

PERMANENT STABILIZATION.

WATERBARS SHALL BE INSPECTED WEEKLY (DAILY ON ACTIVE ROADS) AND AFTER EACH RUNOFF EVENT. DAMAGED OR ERODED WATERBARS SHALL BE RESTORÈD TO ORIGINAL DIMENSIONS WITHIN 24 HOURS OF INSPECTION. MAINTENANCE OF WATERBARS SHALL BE PROVIDED UNTIL ROADWAY, SKIDTRAIL, OR RIGHT-OF-WAY HAS ACHIEVED

WATERBARS ON RETIRED ROADWAYS, SKIDTRAILS, AND RIGHT-OF-WAYS SHALL BE LEFT IN PLACE AFTER PERMANENT STABILIZATION HAS BEEN ACHIEVED.

N.T.S

PERCENT SLOPE	SPACING (FT)
<5	250
5–15	150
15-30	100
>30	50

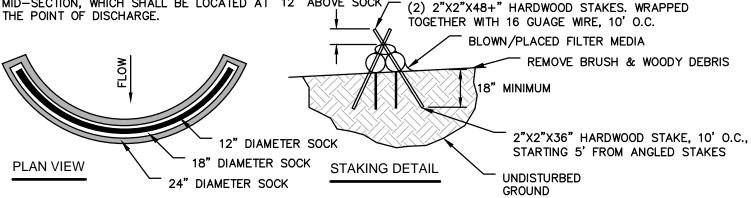
WATERBAR DETAIL

PADEP-3-5

. COMPOST SOCK SEDIMENT TRAP SHALL BE SIZED TO PROVIDE 2,000 CUBIC FEET OF STORAGE CAPACITY FOR EACH ACRE TRIBUTARY TO THE TRAP. 2. MINIMUM BASE WIDTH IS EQUIVALENT TO THE HEIGHT. 3. SEDIMENT ACCUMULATION SHALL NOT EXCEED 1/3 THE TOTAL HEIGHT OF THE

4. SOCKS SHALL BE OF LARGER DIAMETER AT THE BASE OF THE TRAP AND DECREASE IN DIAMETER FOR SUCCESSIVE LAYERS AS

INDICATED TO THE LEFT. 5. ENDS OF THE TRAP SHALL BE A MINIMUM OF 1 FOOT HIGHER IN ELEVATION THAN THE MID-SECTION, WHICH SHALL BE LOCATED AT 12" ABOVE SOCK



SOCK MATERIAL SHALL MEET THE STANDARDS OF TABLE 4.1 FOUND IN PENNSYLVANIA DEP EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 FOUND IN PENNSYLVANIA DEP EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL.

COMPOST SOCK SEDIMENT TRAPS SHALL NOT EXCEED THREE SOCKS IN HEIGHT AND SHALL BE STACKED IN PYRAMIDAL FORM AS SHOWN ABOVE. MINIMUM TRAP HEIGHT IS ONE 24" DIAMETER SOCK. ADDITIONAL STORAGE MAY BE PROVIDED BY MEANS OF AN ESCAVATED SUMP 12" DEEP EXTENDING 1 TO 3 FEET UPSLOPE OF THE SOCKS ALONG THE LOWER SIDE OF THE TRAP.

COMPOST SOCK SEDIMENT TRAPS SHALL PROVIDE 2,000 CUBIC FEET STORAGE CAPACITY WITH 12" FREEBOARD FOR EACH TRIBUTARY DRAINAGE ACRE. (SEE MANUFACTURER FOR ANTICIPATED SETTLEMENT.)

THE MAXIMUM TRIBUTARY DRAINAGE AREA IS 5.0 ACRES. SINCE COMPOST SOCKS ARE "FLOW-THROUGH," NO SPILLWAY IS REQUIRED.

COMPOST SOCK SEDIMENT TRAPS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/3 THE HEIGHT OF THE SOCKS.

PHOTODEGRADABLE AND BIODEGRADABLE SOCKS SHALL NOT BE USED FOR MORE THAN 1 YEAR.

COMPOST SOCK SEDIMENT TRAP DETAIL

PADEP-3-11

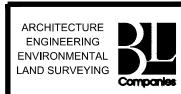
CONSTITUTION PIPELINE COMPANY, LLC PROPOSED 30" NATURAL GAS PIPELINE ACCESS ROADS - ROAD DESIGN PLAN

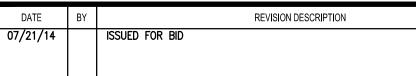
CONSTRUCTION DETAILS 1 OF 2

SSUED FOR BID:



ISSUED FOR BID NOT FOR CONSTRUCTION



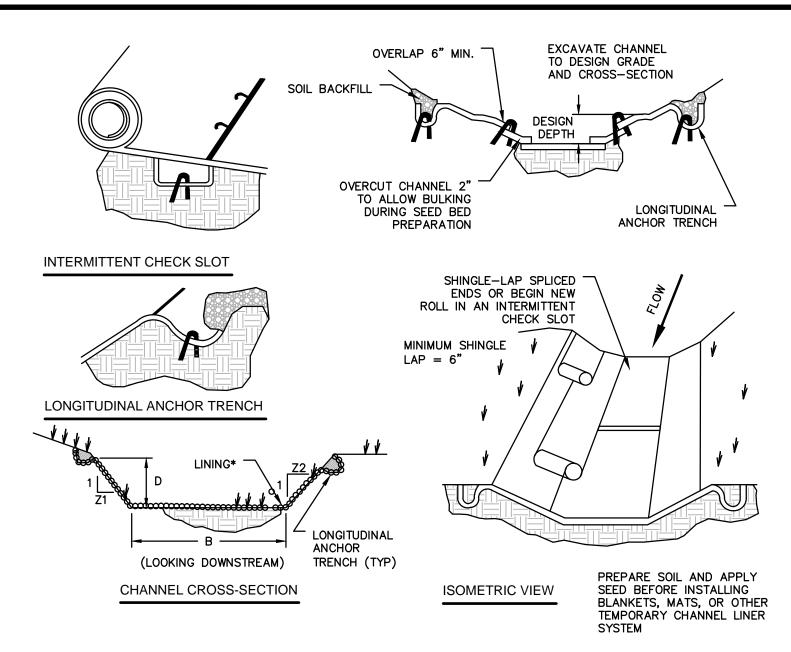


(W.O. NO. | CHK. | /

HECKED BY APPROVED BY:

ATE: 10/29/20

AS NOTED SSUED FOR CONSTRUCTION: 26-26-85/DN.1



* SEE MANUFACTURER'S LINING INSTALLATION DETAIL FOR STAPLE PATTERNS, AND VEGETATIVE STABILIZATION SPECIFICATIONS FOR SOIL AMENDMENTS, SEED MIXTURES AND MULCHING INFORMATION.

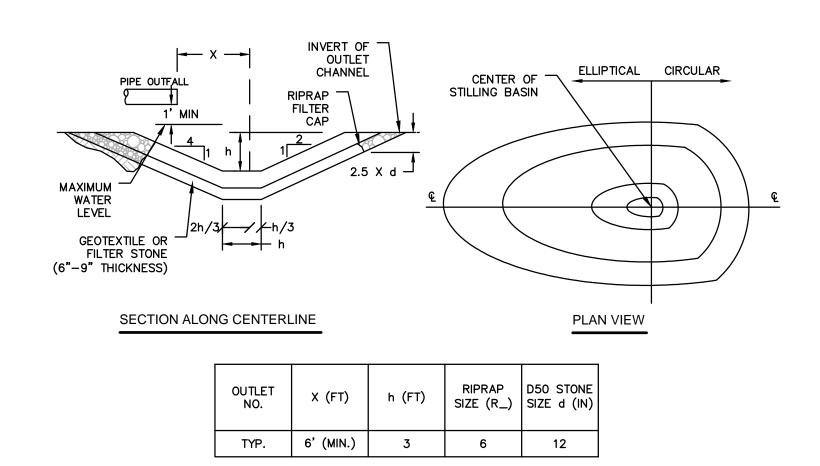
VEGETATED CHANNEL DETAIL

N.T.S PADEP-6-1

ANCHOR TRENCHES SHALL BE INSTALLED AT BEGINNING AND END OF CHANNEL IN THE SAME MANNER AS LONGITUDINAL ANCHOR TRENCHES.

CHANNEL DIMENSIONS SHALL BE CONSTANTLY MAINTAINED. CHANNEL SHALL BE CLEANED WHENEVER TOTAL CHANNEL DEPTH IS REDUCED BY 25% AT ANY LOCATION. SEDIMENT DEPOSITS SHALL BE REMOVED WITHIN 24 HOURS OF DISCOVERY OR AS SOON AS SOIL CONDITIONS PERMIT ACCESS TO CHANNEL WITHOUT FURTHER DAMAGE. DAMAGED LINING SHALL BE REPAIRED OR REPLACED WITHIN 48 HOURS OF DISCOVERY.

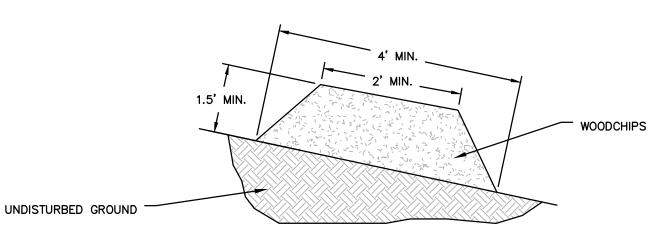
NO MORE THAN ONE THIRD OF THE SHOOT (GRASS LEAF) SHALL BE REMOVED IN ANY MOWING. GRASS HEIGHT SHALL BE MAINTAINED BETWEEN 2 AND 3 INCHES UNLESS OTHERWISE SPECIFIED. EXCESS VEGETATION SHALL BE REMOVED FROM PERMANENT CHANNELS TO ENSURE SUFFICIENT CHANNEL CAPACITY.



RIPRAP THICKNESS SHALL BE 1.5 TIMES THE MAXIMUM STONE SIZE.

STILLING BASIN DETAIL

N.T.S PADEP-9-4



PRIOR TO PLACEMENT OF THE BERM, OBSTRUCTIONS SUCH AS TREE LIMBS, LARGE ROCKS, ETC. SHALL BE

WOOD CHIP FILTER BERM SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BERM SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BERM ALIGNMENT (FIGURE 4.1 FOUND IN PENNSYLVANIA DEP EROSION AND SEDIMENT POLLUTION CONTROL MANUAL). WOOD CHIP BERMS SHALL NOT BE LOCATED IN AREAS OF CONCENTRATED FLOW OR USED TO CONSTRUCT SEDIMENT TRAPS OR OTHER IMPOUNDMENTS.

A 6" THICK LAYER OF COMPOST SHALL BE ADDED TO THE UPSLOPE SIDE OF ANY WOOD CHIP FILTER BERM LOCATED IN AN HQ WATERSHED. THIS BMP SHALL NOT BE ROUTINELY USED IN EV WATERSHEDS.

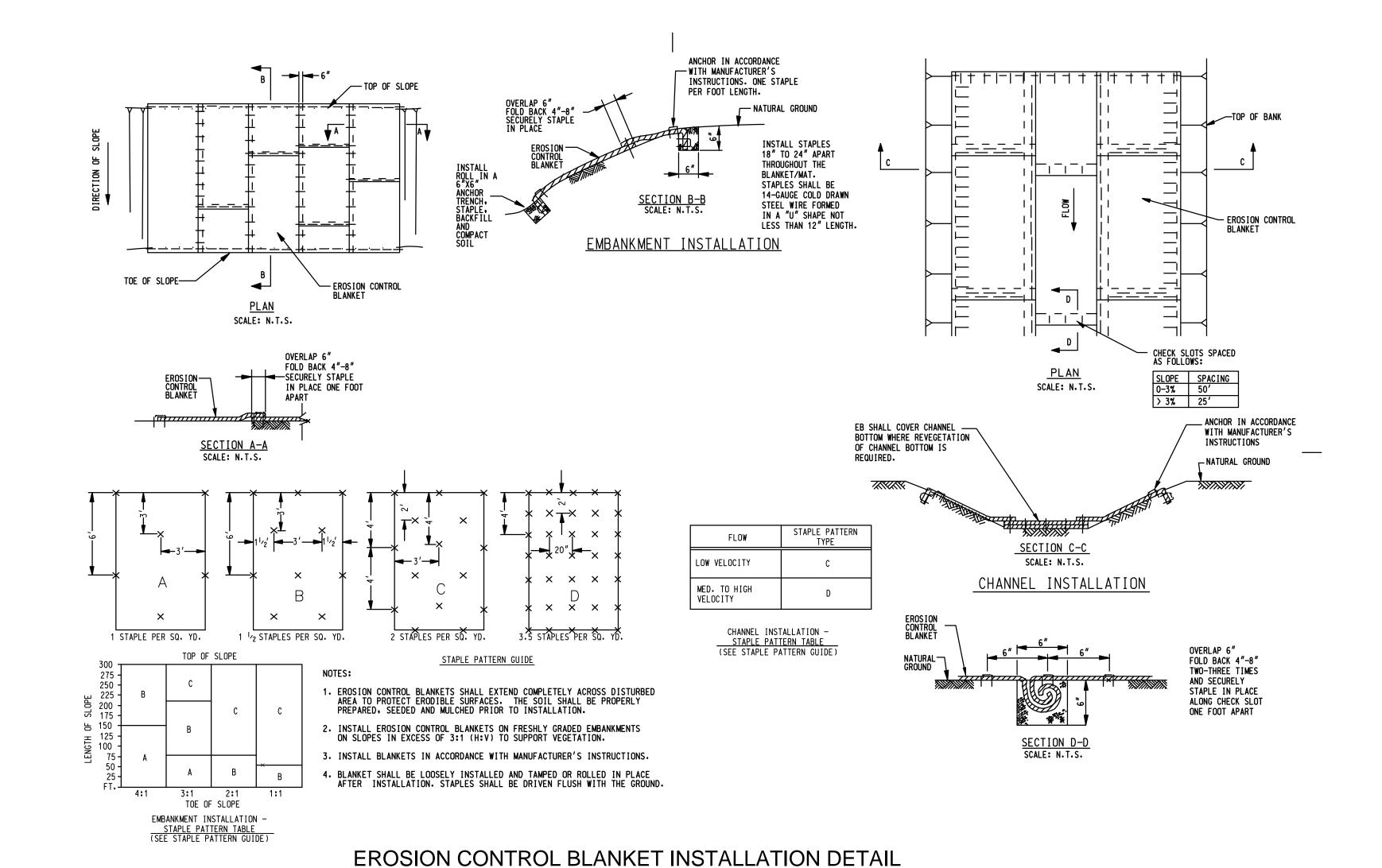
BERMS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH HALF THE HEIGHT OF THE BERM. DAMAGED OR DETERIORATED PORTIONS OF THE BERM

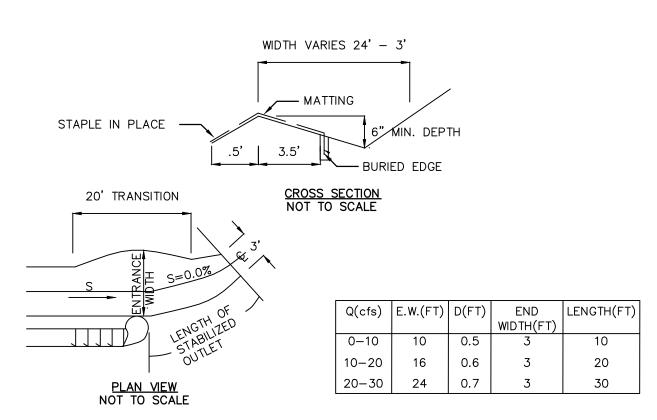
SHALL BE REPLACED IMMEDIATELY UPON INSPECTION.

BERMS MAY BE LEVELED WHEN THE TRIBUTARY AREA HAS BEEN PERMANENTLY STABILIZED OR LEFT IN PLACE.

WOOD CHIP FILTER BERM DETAIL

N.T.S PADEP-4-12





CONSTRUCTION SPECIFICATIONS

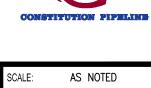
- 1. THE MATTING SHOULD BE A MINIMUM OF 4FT. WIDE EXTENDING 6 INCHES OVER THE LIP AND BURIED 6 INCHES DEEP IN A VERTICAL TRENCH ON THE LOWER EDGE. THE UPPER EDGE SHOULD BUTT AGAINST SMOOTHLY CUT SOD AND BE SECURELY HELD IN PLACE WITH CLOSELY SPACED HEAVY DUTY WIRE STAPLES AT LEAST 12 INCHES IN LENGTH.
- 2. ENSURE THAT THE LIP IS LEVEL TO UNIFORMLY SPREAD DISCHARGE.
- 3. THE LIP SHALL BE CONSTRUCTED ON UNDISTURBED SOIL NOT FILL.
- 4. A 20 FOOT TRANSITION SECTION WILL BE CONSTRUCTED FROM THE DIVERSION CHANNEL TO THE SPREADER TO SMOOTHLY BLEND THE DIFFERENT DIMENSION AND GRADES.
- 5. THE RUNOFF DISCHARGE WILL BE OUTLETED ONTO A STABILIZED VEGETATED SLOPE NOT EXCEEDING 10%.
- 6. SEED AND MULCH THE DISTURBED AREA IMMEDIATELY AFTER CONSTRUCTION.

EARTHEN LEVEL SPREADER

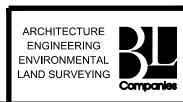
N.T.S NYSDEC-27

CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
ACCESS ROADS — ROAD DESIGN PLAN

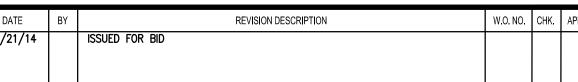
CONSTRUCTION DETAILS 2 OF 2



ISSUED FOR BID
NOT FOR CONSTRUCTION



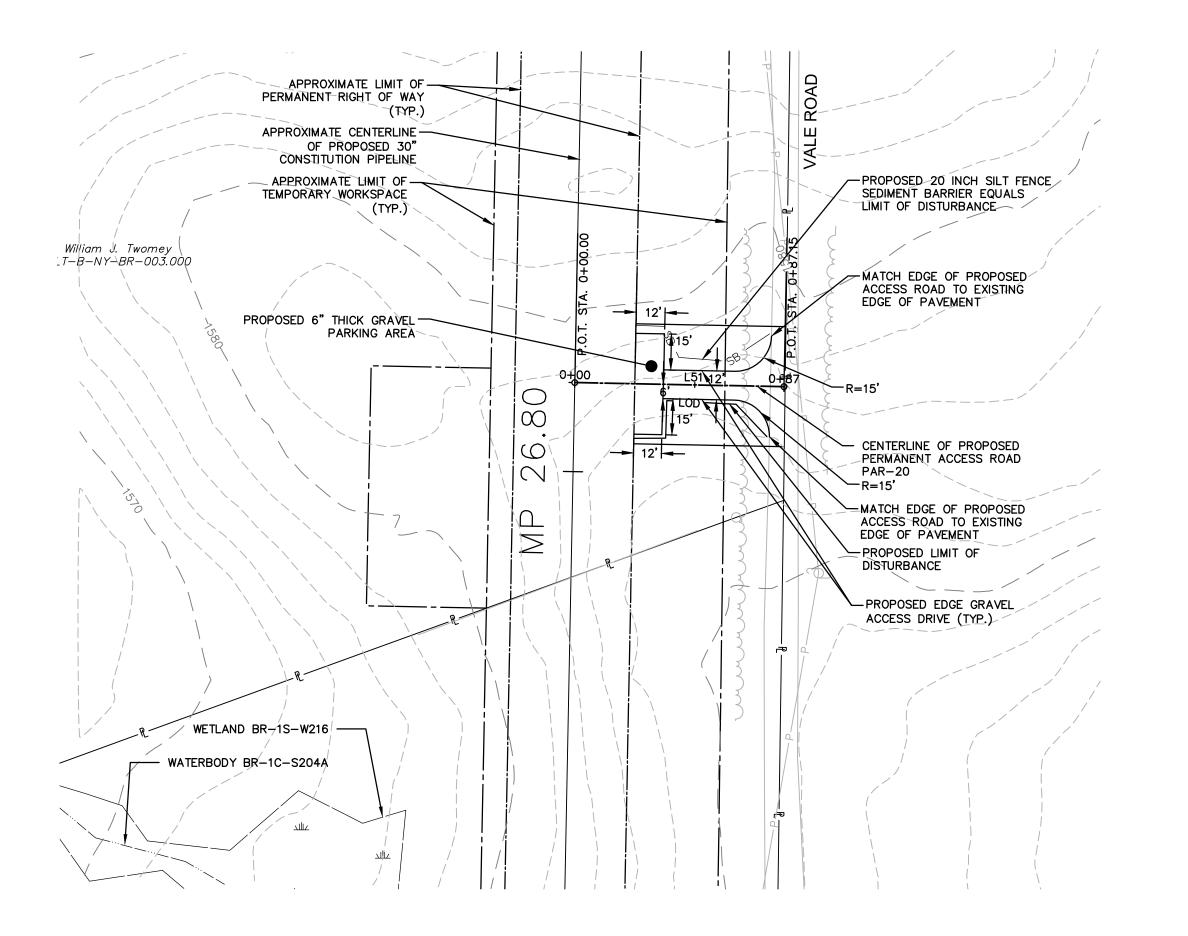
NYSDEC-37



CA APP. DRAWN BY: DATE: 10/29/2013 ISSUED FOR BID: SCALE: AS NOT CHECKED BY: DATE: ISSUED FOR CONSTRUCTION:

APPROVED BY: DATE: DATE: DRAWING NUMBER: 26-26-85/DN.2 SHEE OF





L.V.C. = 50.00FTPVI STA. 0+39.42 PVI ELEV.=1585.14 PVC STA. 0+14.42 PVC ELEV.=1583.50 PVC STA. 0+64.42 PVC ELEV.=1584.71 1585 -PROPOSED GRADE 1580 1580 EXISTING GRADE 0+001+00

GENERAL NOTES

- 1. CHECK DAMS SHALL BE INSTALLED WITHIN ALL SWALES IN ACCORDANCE WITH THE CHECK DAM BEST MANAGEMENT PRACTICE
- 2. REFER TO THE ACCESS ROAD GENERAL NOTES FOR SPECIFIC INSTALLATION AND MAINTENANCE SPECIFICATIONS, ACCESS ROAD
- LEGEND AND MISCELLANEOUS GENERAL NOTES. 3. PROPOSED TRUCK PULL OFF ARE TEMPORARY AND SHALL BE REMOVED AFTER CONSTRUCTION. THE PULL OFF AREA SHALL BE REGRADED TO MATCH PRE CONSTRUCTION CONTOURS WHERE PRACTICAL. ALL PROPOSED PERMANENT SWALES AND ASSOCIATED CHECK DAMS SHALL BE REMOVED AND REINSTALLED ALONG THE
- PROPOSED EDGE OF ROAD. 4. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY CONSTITUTION AND/OR ITS ENGINEER OF ANY CONDITIONS THAT
- VARY FROM WHAT IS DEPICTED ON THIS PLAN. 5. THE CONTRACTOR SHALL CONTACT 811 DIG SAFELY NEW YORK
- (1-800-962-7962) A MINIMUM OF 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 6. ALL SLOPES THAT ARE EQUAL TO OR STEEPER THAN 1(V): 3(H)
 SHALL BE SEEDED AND THEN COVERED WITH EROSION CONTROL
 MATTING. THE MATTING SHALL BE OR APPROVED EQUAL AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS
- SPECIFICATIONS. 7. ALL SLOPES THAT ARE STEEPER THAN 1(V): 2(H) SHALL BE COVERED WITH RIPRAP SLOPE PROTECTION. SEE SLOPE PROTECTION DETAIL FOR INSTALLATION GUIDELINES.

			PAR-20				
No.	Northing	Easting	Bearing	Delta(△)	Length	Tangent	Radius
L51	B 15260620.63 E 15260618.93	B 1496969.83 E 1497056.97	S88°52'47.36"E		87.15'		

TYPICAL SECTION LEGEND

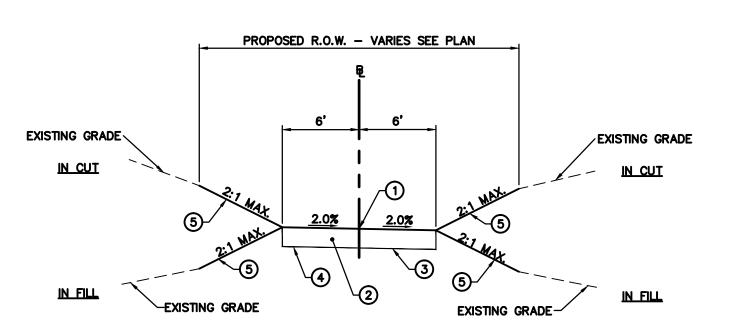
1) CENTERLINE OF ACCESS ROAD

2 12" LAYER CRUSHER RUN GRAVEL

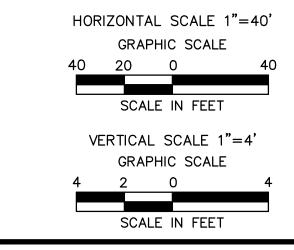
(3) FILTER FABRIC

4 UNDISTURBED GROUND IN CUTS/SUBBASE IN FILLS

(5) EROSION CONTROL BLANKET, TOPSOIL AND SEED



TYPICAL SECTION STA. 0+00 TO 0+62.42

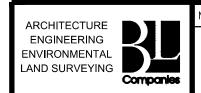


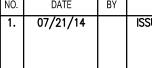
CONSTITUTION PIPELINE COMPANY, LLC PROPOSED 30" NATURAL GAS PIPELINE ACCESS ROADS - ROAD DESIGN PLAN

PROPOSED PERMANENT ACCESS ROAD
PAR-20 @ M.P. 26.77
TOWN OF SANFORD
BROOME COUNTY, NEW YORK









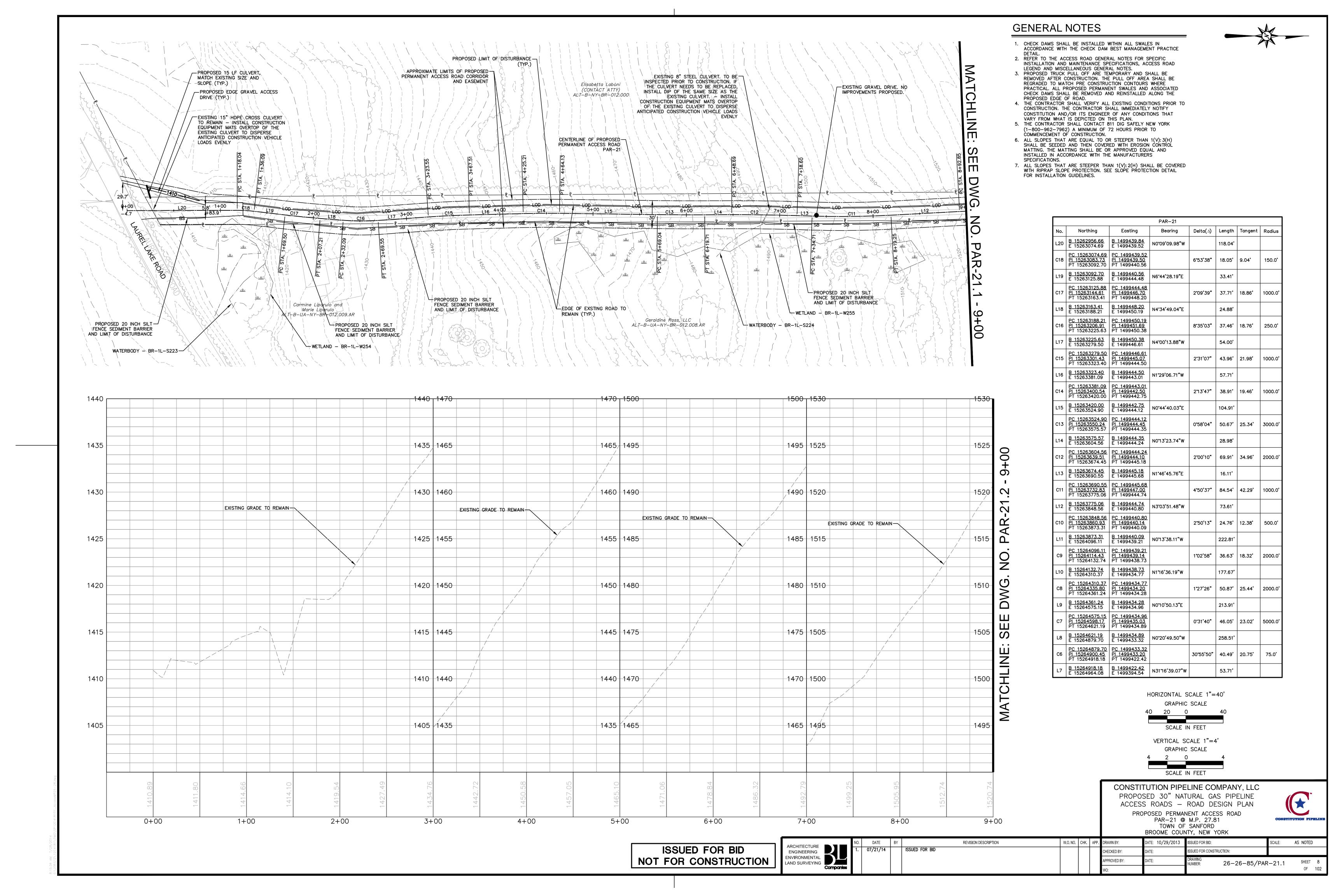
REVISION DESCRIPTION ISSUED FOR BID

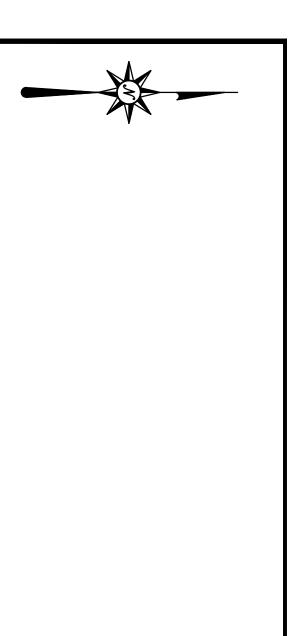
W.O. NO. | CHK. | APP. CHECKED BY: APPROVED BY:

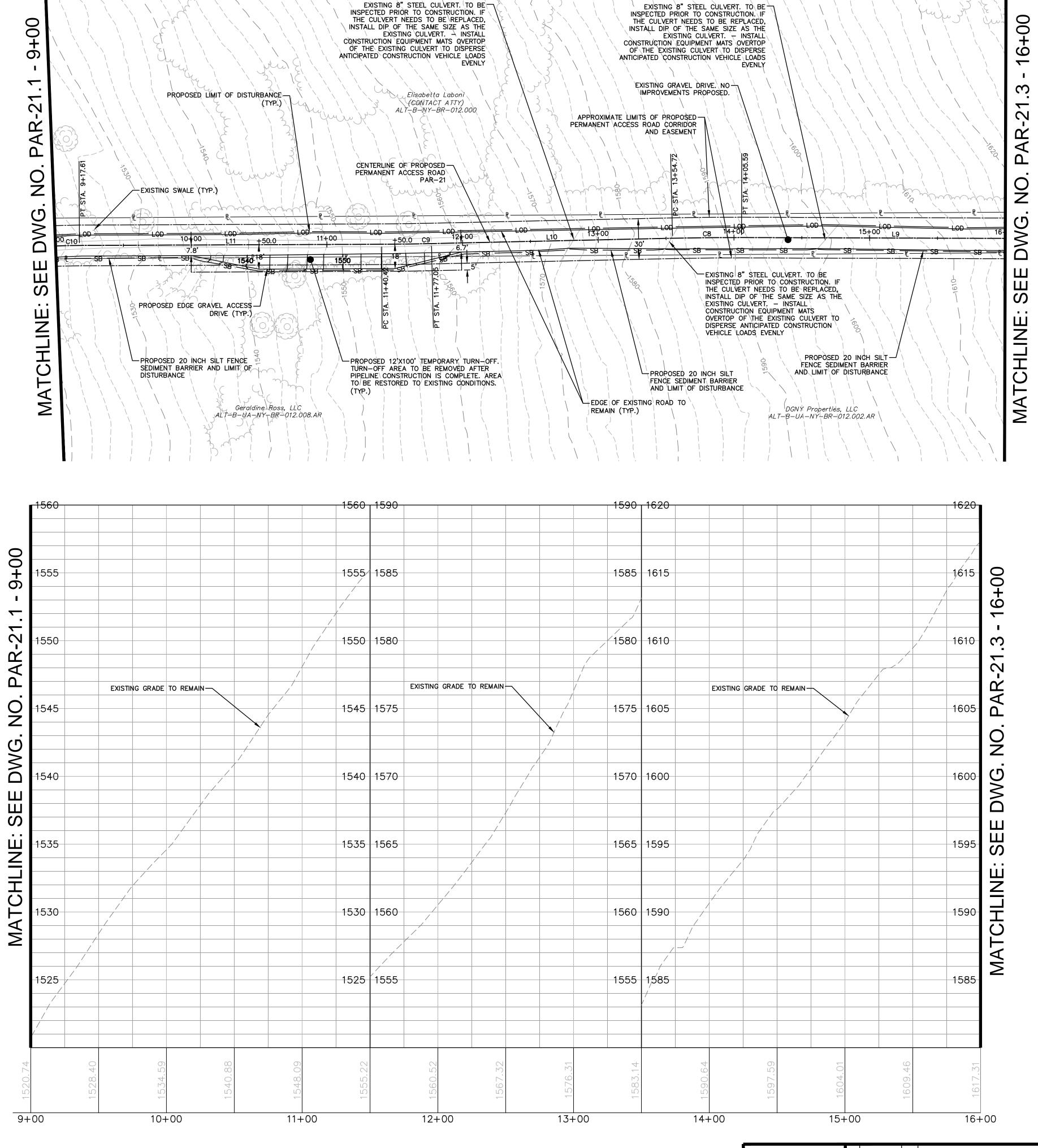
DATE: 10/29/2013 ISSUED FOR BID: SSUED FOR CONSTRUCTION:

26-26-85/PAR-20.1

SCALE: AS NOTED







HORIZONTAL SCALE 1"=40' GRAPHIC SCALE 40 20 0 SCALE IN FEET VERTICAL SCALE 1"=4" GRAPHIC SCALE 4 2 0 4 SCALE IN FEET

CONSTITUTION PIPELINE COMPANY, LLC PROPOSED 30" NATURAL GAS PIPELINE ACCESS ROADS - ROAD DESIGN PLAN PROPOSED PERMANENT ACCESS ROAD
PAR-21 @ M.P. 27.81
TOWN OF SANFORD
BROOME COUNTY, NEW YORK



ENVIRONMENTAL LAND SURVEYING

ISSUED FOR BID

NOT FOR CONSTRUCTION

ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LAND SURVEYING
Companies

ISSUED FOR BID

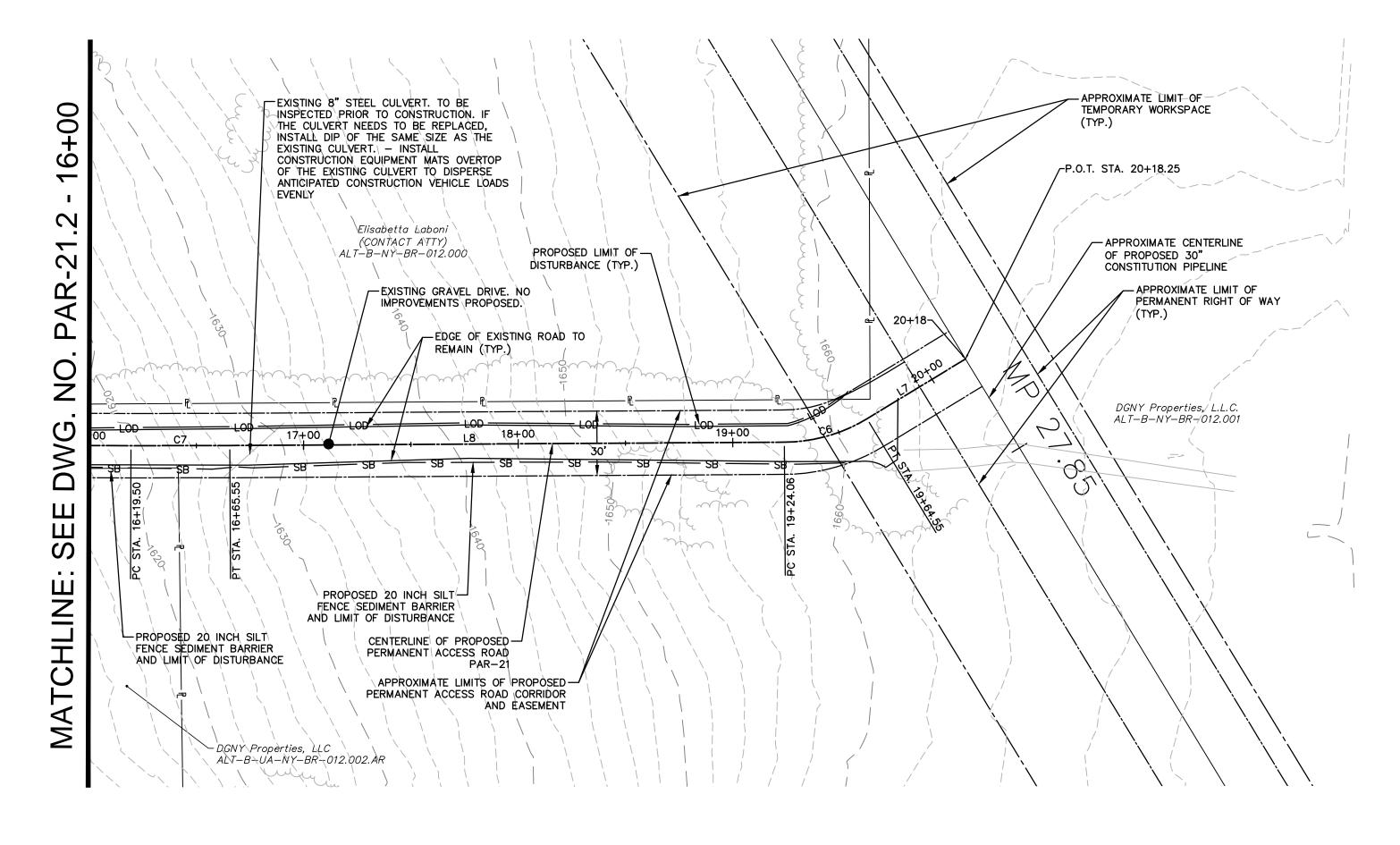
REVISION DESCRIPTION

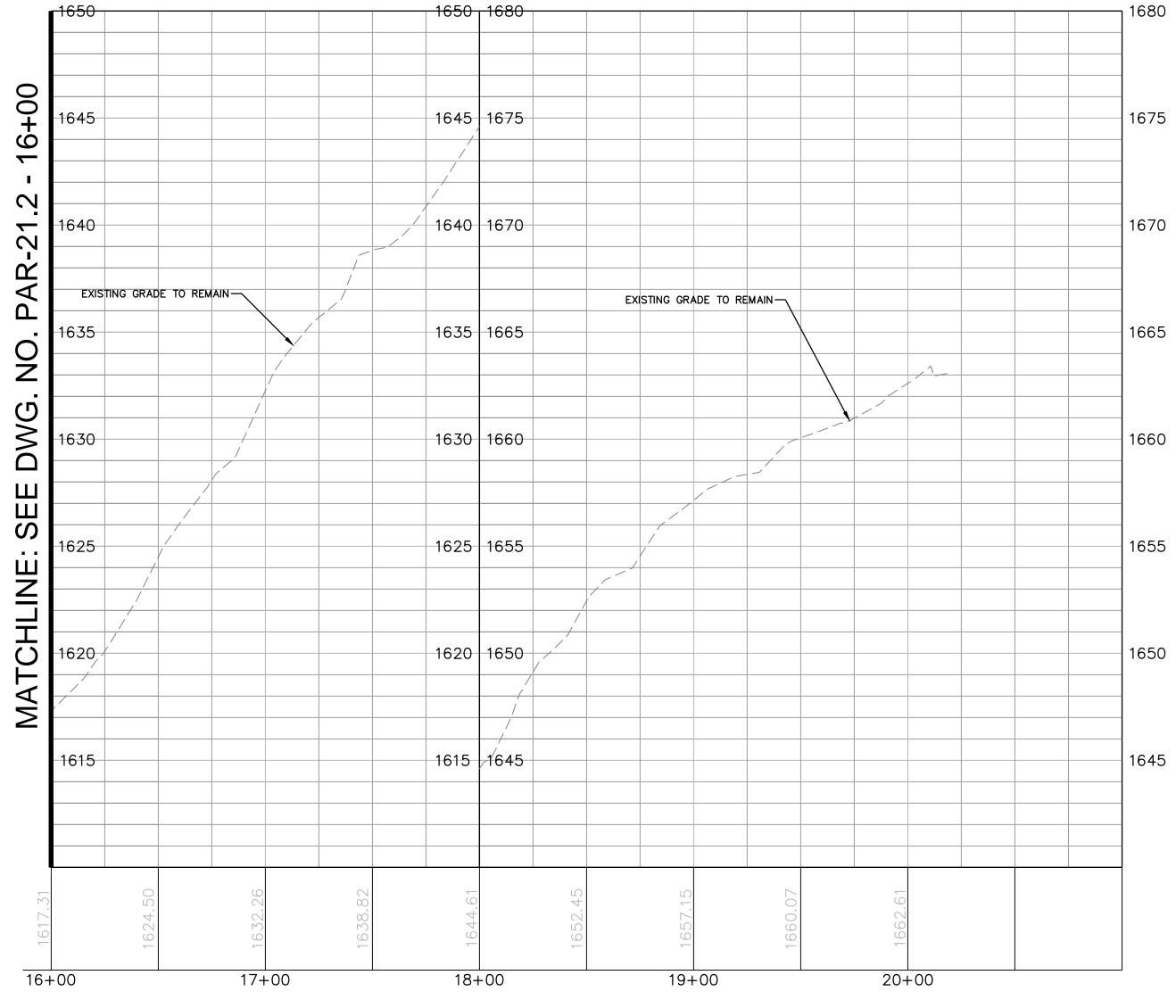
W.O. NO. | CHK. | APP.

DATE: 10/29/2013 ISSUED FOR BID: CHECKED BY: SSUED FOR CONSTRUCTION: APPROVED BY:

SCALE: AS NOTED 26-26-85/PAR-21.2







HORIZONTAL SCALE 1"=40'

GRAPHIC SCALE

40 20 0 40

SCALE IN FEET

VERTICAL SCALE 1"=4'

GRAPHIC SCALE

4 2 0 4

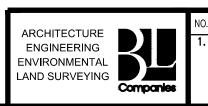
SCALE IN FEET

CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
ACCESS ROADS — ROAD DESIGN PLAN
PROPOSED PERMANENT ACCESS ROAD
PAR-21 @ M.P. 27.81
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELIN

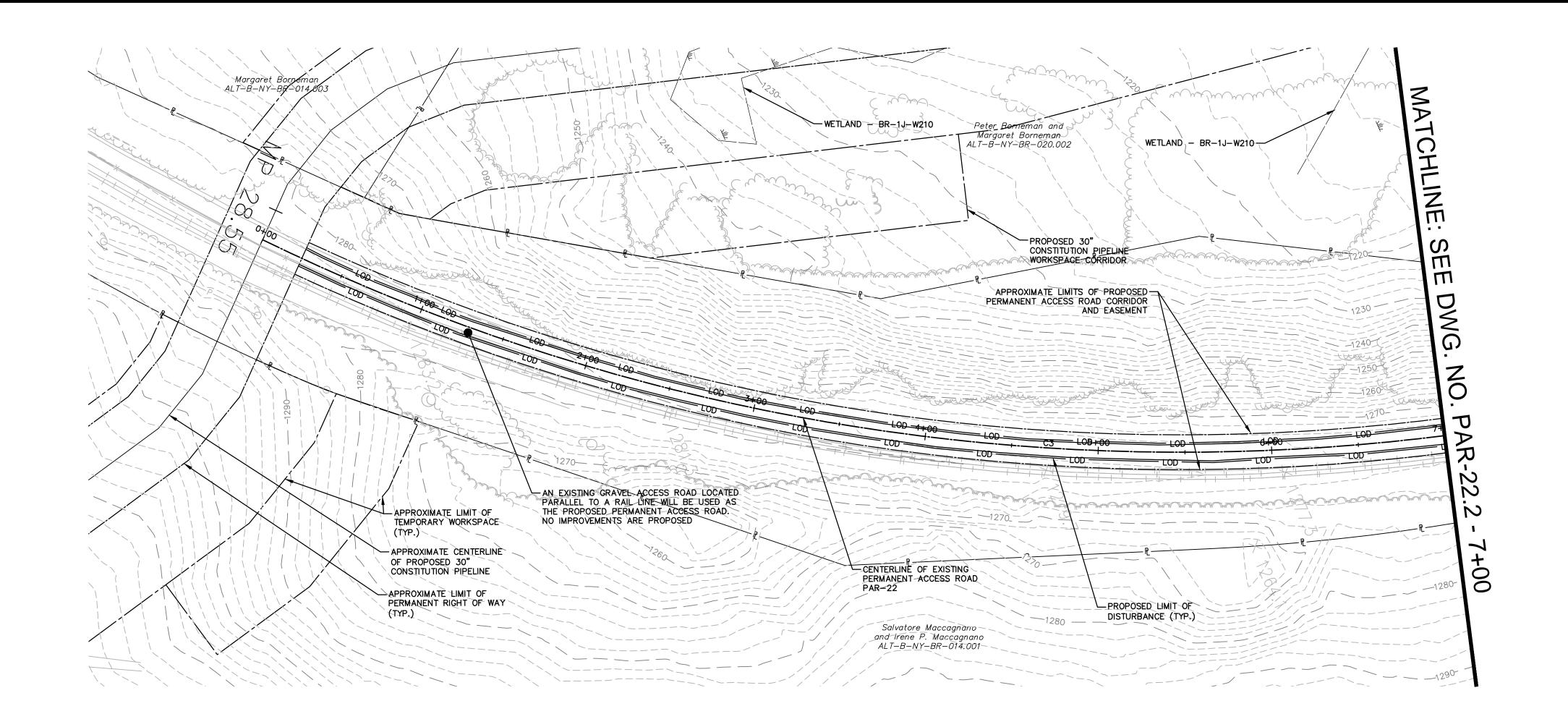
SCALE: AS NOTED

ISSUED FOR BID NOT FOR CONSTRUCTION



DATE	Dī		REVISION DESCRIPTION
07/21/14		ISSUED FOR BID	
.,,			





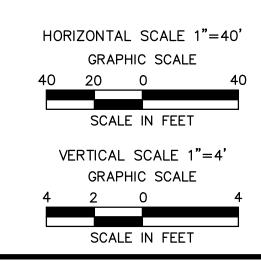
No.	Northing	Easting	Bearing	Delta(△)	Length	Tangent	Radius
С3	PC 15268064.31 PI 15268367.38 PT 15268836.91	PC 1500174.67 PI 1500538.33 PT 1500598.72		42 ° 51'48"	902.21	473.39'	1206.0'
L4	B 15268836.91 E 15269314.41	B 1500598.72 E 1500660.14	N7°19'46.73"E		481.43'		
C4	PC 15269314.41 PI 15269605.01 PT 15269868.62	PC 1500660.14 PI 1500697.52 PT 1500825.42		18'33'06"	580.87	293.00'	1794.0'
L5	B 15269868.62 E 15270764.40	B 1500825.42 E 1501260.03	N25*52'52.32"E		995.64'		
C5	PC 15270764.40 PI 15271235.21 PT 15271386.34	PC 1501260.03 PI 1501488.45 PT 1501989.45		47"19'58"	986.38'	523.30'	1194.0'
L6	B 15271386.34 E 15271608.87	B 1501989.45 E 1502727.17	N7312'50.67"E		770.55		

GENERAL NOTES

- 1. CHECK DAMS SHALL BE INSTALLED WITHIN ALL SWALES IN ACCORDANCE WITH THE CHECK DAM BEST MANAGEMENT PRACTICE
- 2. REFER TO THE ACCESS ROAD GENERAL NOTES FOR SPECIFIC INSTALLATION AND MAINTENANCE SPECIFICATIONS, ACCESS ROAD LEGEND AND MISCELLANEOUS GENERAL NOTES.
- 3. PROPOSED TRUCK PULL OFF ARE TEMPORARY AND SHALL BE REMOVED AFTER CONSTRUCTION. THE PULL OFF AREA SHALL BE REGRADED TO MATCH PRE CONSTRUCTION CONTOURS WHERE PRACTICAL. ALL PROPOSED PERMANENT SWALES AND ASSOCIATED CHECK DAMS SHALL BE REMOVED AND REINSTALLED ALONG THE PROPOSED EDGE OF ROAD.
- 4. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY CONSTITUTION AND/OR ITS ENGINEER OF ANY CONDITIONS THAT
- VARY FROM WHAT IS DEPICTED ON THIS PLAN.

 5. THE CONTRACTOR SHALL CONTACT 811 DIG SAFELY NEW YORK (1-800-962-7962) A MINIMUM OF 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 6. ALL SLOPES THAT ARE EQUAL TO OR STEEPER THAN 1(V): 3(H) SHALL BE SEEDED AND THEN COVERED WITH EROSION CONTROL
 MATTING. THE MATTING SHALL BE OR APPROVED EQUAL AND
 INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
- 7. ALL SLOPES THAT ARE STEEPER THAN 1(V): 2(H) SHALL BE COVERED WITH RIPRAP SLOPE PROTECTION. SEE SLOPE PROTECTION DETAIL FOR INSTALLATION GUIDELINES.

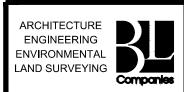
							<u> </u>	- 4					
	282.78	282.13	281.53	280.47	279.98	279.13	278.64	278.05	277.8	01.77	276.19	274.82	274.10
0													1270
													1275
5													1275
													1280
5									-EXISTING GRADE TO REMAIN				1285
0													1290
5													1295
00													1300



CONSTITUTION PIPELINE COMPANY, LLC PROPOSED 30" NATURAL GAS PIPELINE ACCESS ROADS - ROAD DESIGN PLAN

PROPOSED PERMANENT ACCESS ROAD
PAR-22 @ M.P. 28.52
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

ISSUED FOR BID NOT FOR CONSTRUCTION

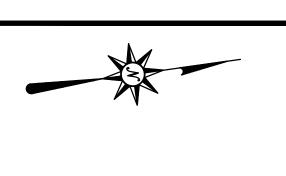


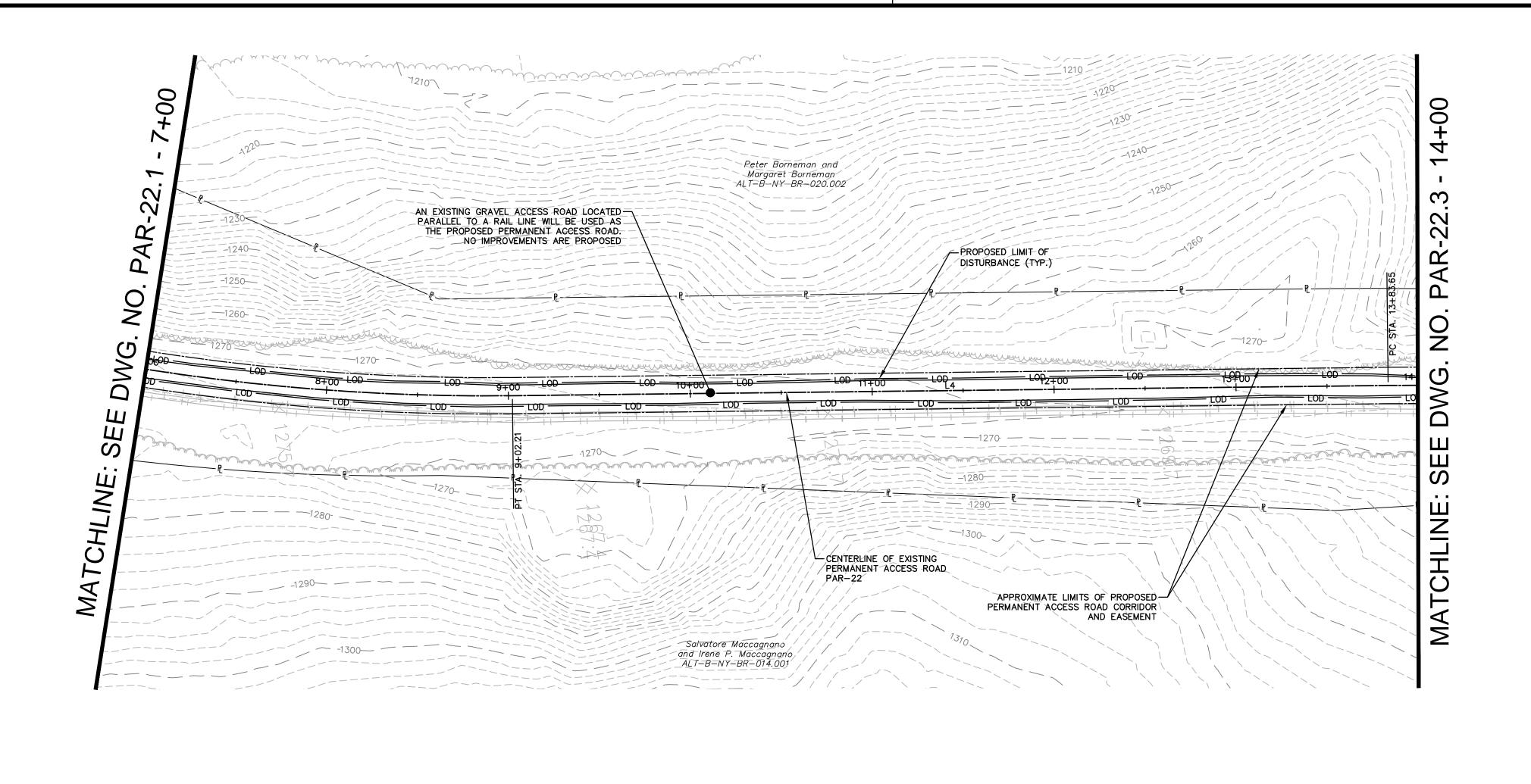
DATE	ВҮ		REVISION DESCRIPTION
07/21/14		ISSUED FOR BID	

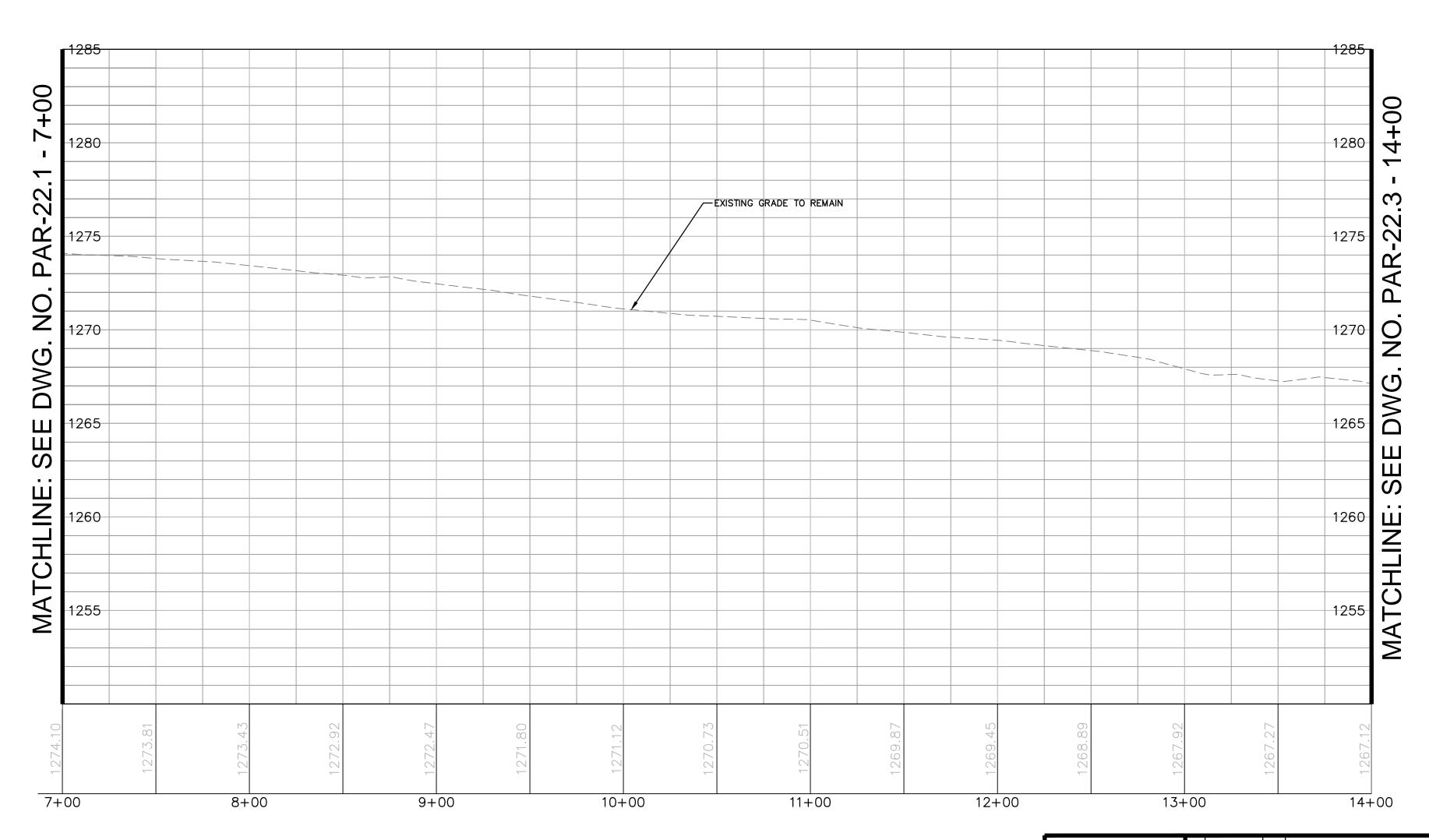
W.O. NO. CHK. APP. DRAWN BY: CHECKED BY: APPROVED BY:

DATE: 10/29/2013 ISSUED FOR BID: SCALE: AS NOTED SSUED FOR CONSTRUCTION:

26-26-85/PAR-22.1







HORIZONTAL SCALE 1"=40'

GRAPHIC SCALE

40 20 0 40

SCALE IN FEET

VERTICAL SCALE 1"=4'

GRAPHIC SCALE

4 2 0 4

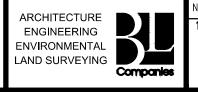
SCALE IN FEET

CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
ACCESS ROADS — ROAD DESIGN PLAN
PROPOSED PERMANENT ACCESS ROAD
PAR-22 @ M.P. 28.52
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PEPELINE

SCALE: AS NOTED

ISSUED FOR BID
NOT FOR CONSTRUCTION



DATE BY REVISION DESCRIPTION

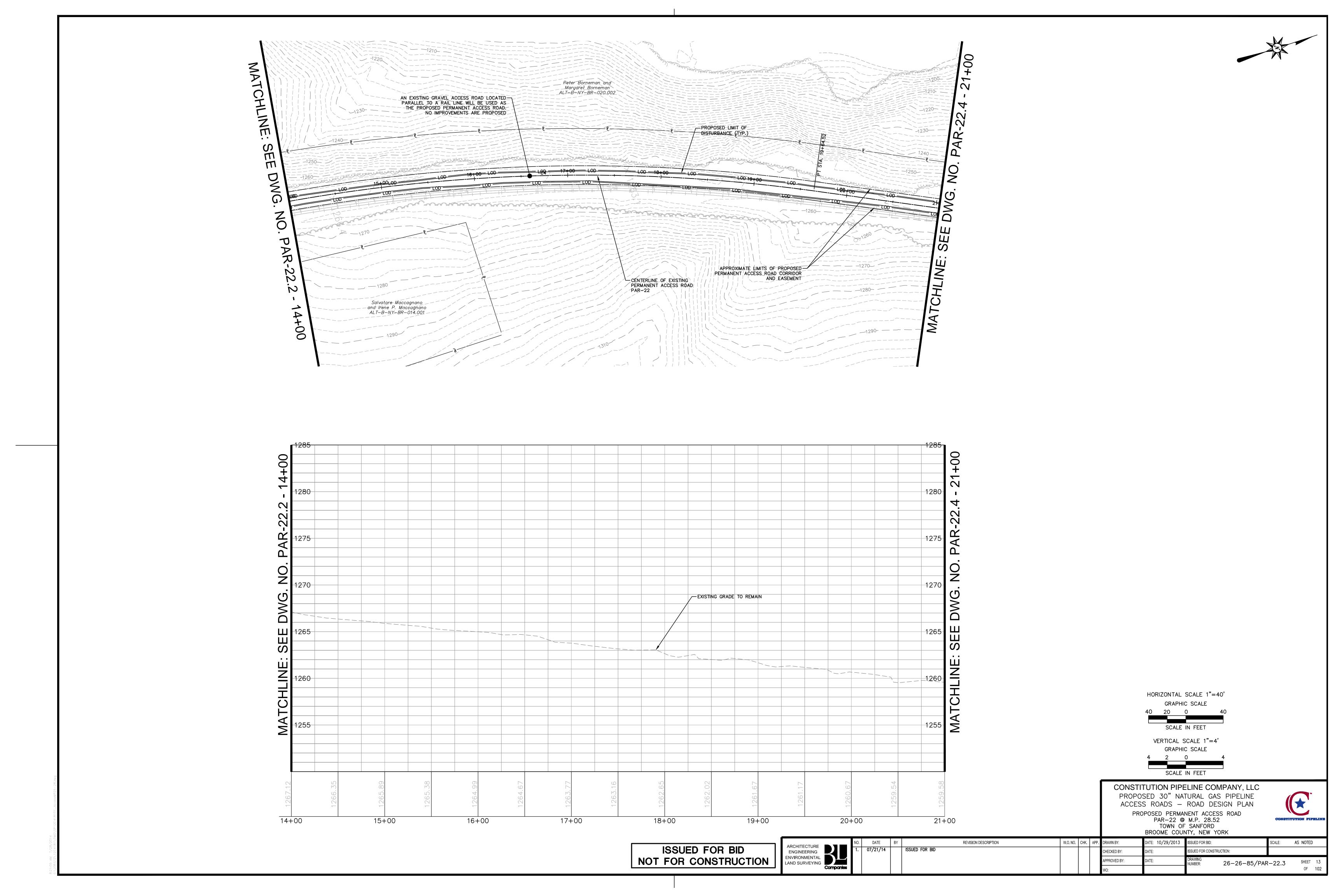
07/21/14 ISSUED FOR BID

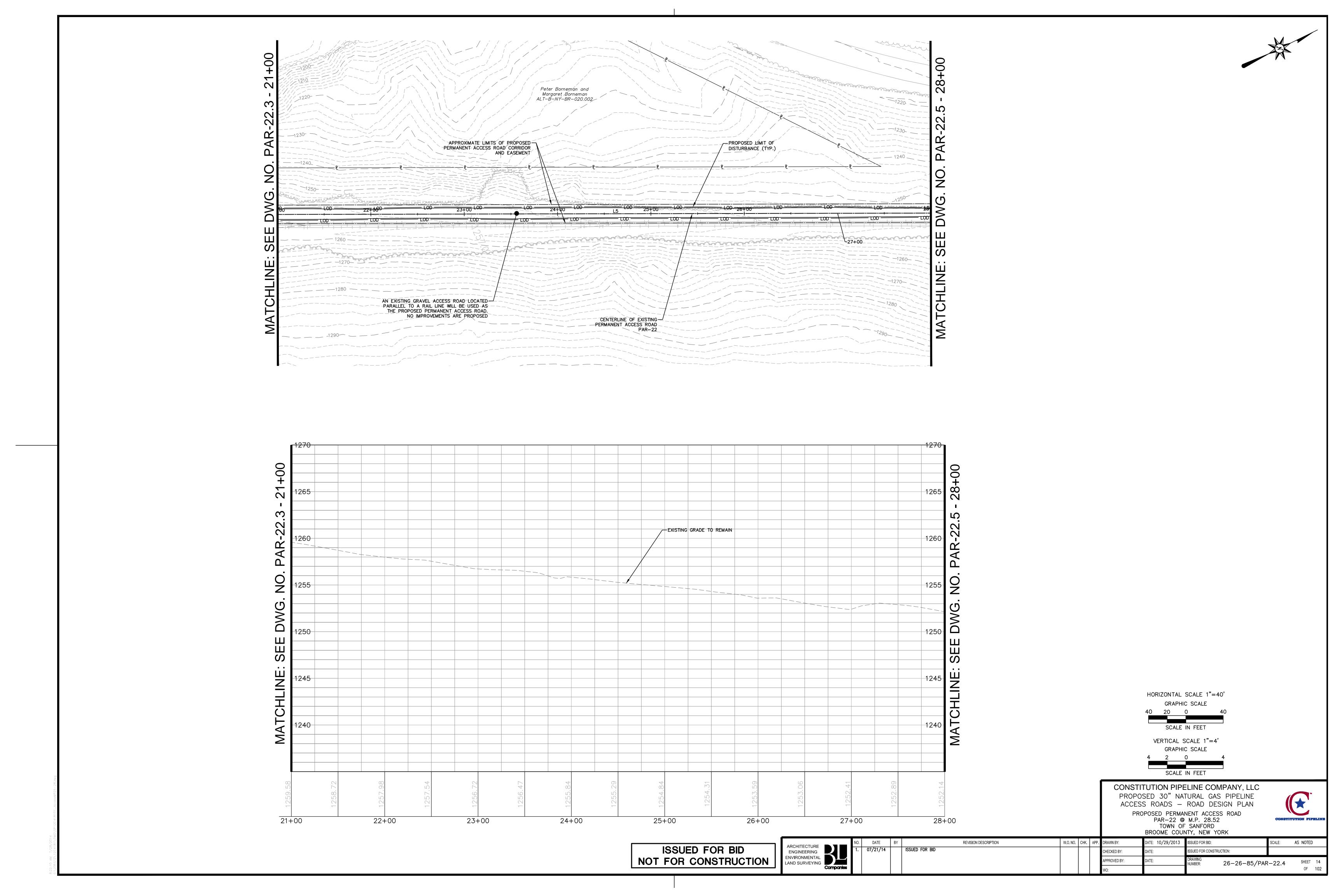
W.O. NO. CHK. APP. DRAWN BY:

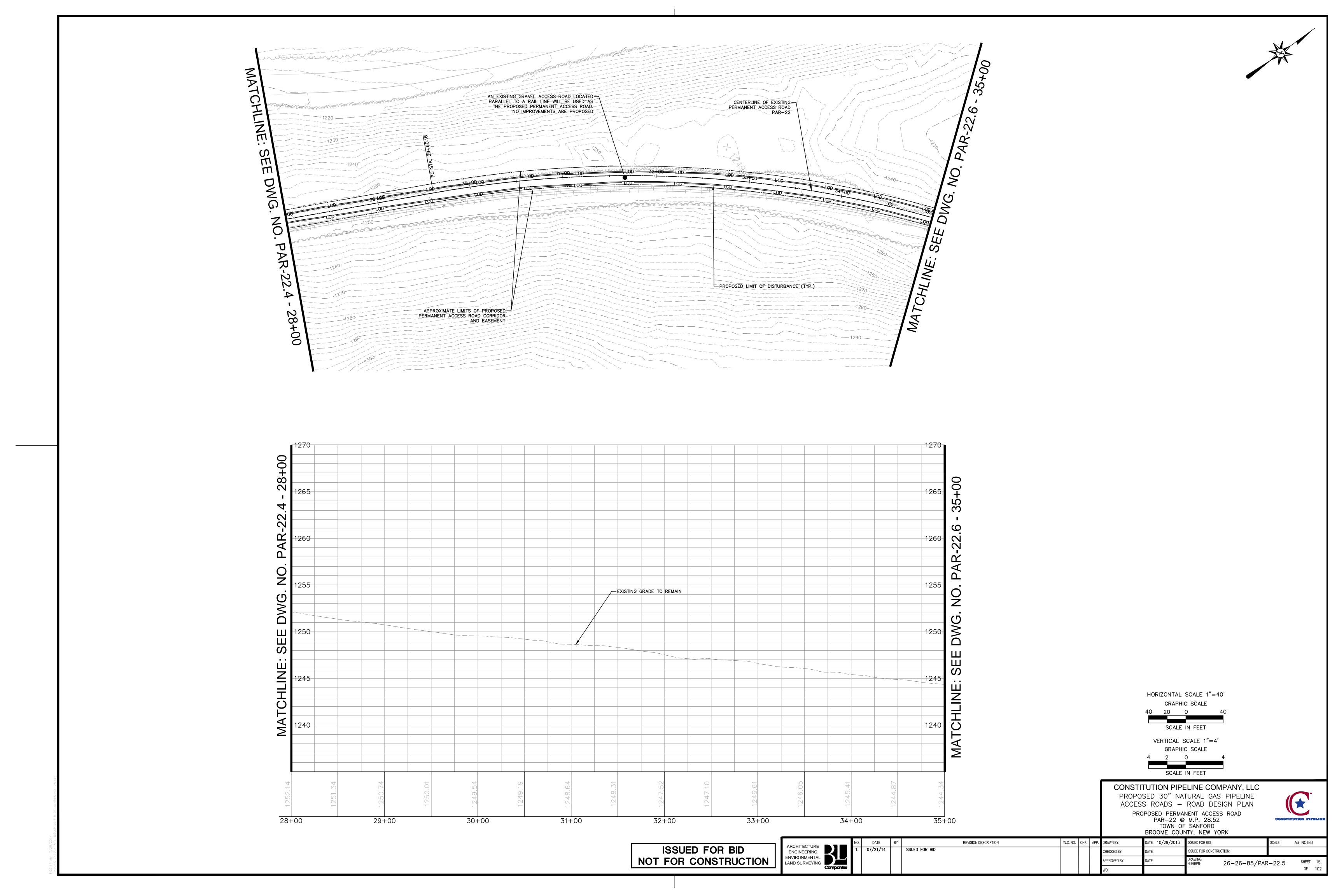
CHECKED BY:

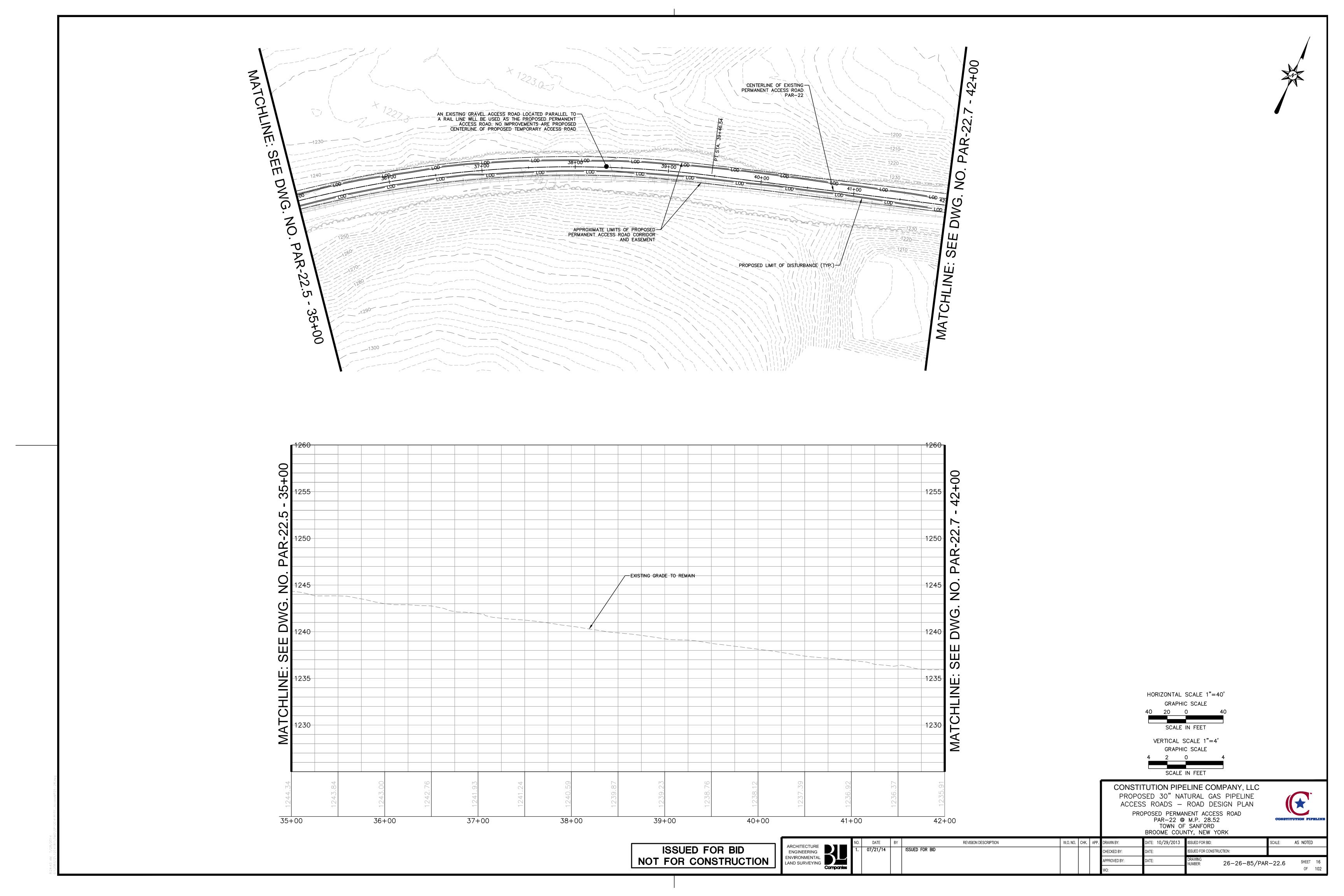
APPROVED BY:

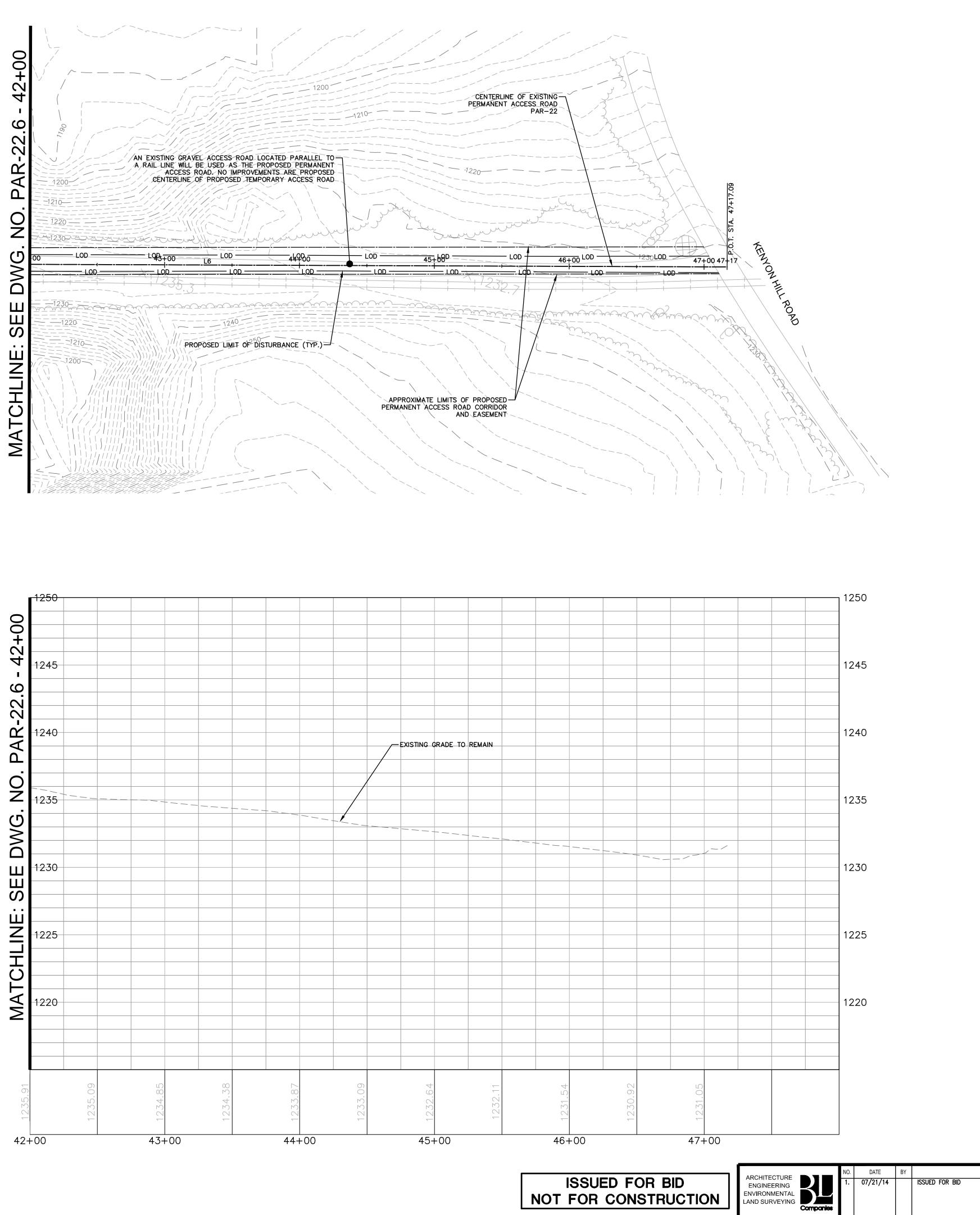
WO:

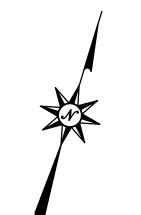












HORIZONTAL SCALE 1"=40' GRAPHIC SCALE 40 20 0 SCALE IN FEET VERTICAL SCALE 1"=4' GRAPHIC SCALE 4 2 0 4

SCALE IN FEET

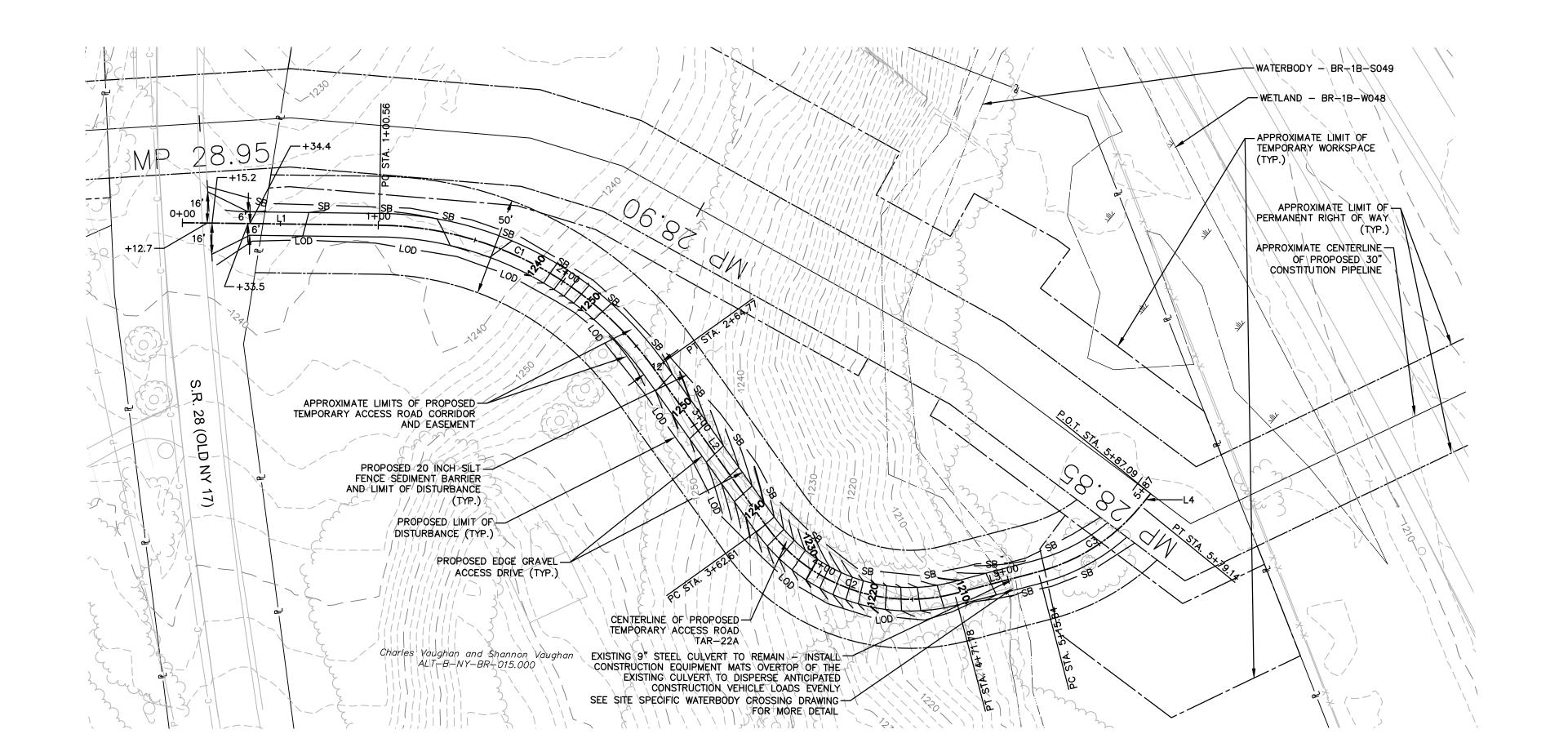
CONSTITUTION PIPELINE COMPANY, LLC PROPOSED 30" NATURAL GAS PIPELINE ACCESS ROADS - ROAD DESIGN PLAN

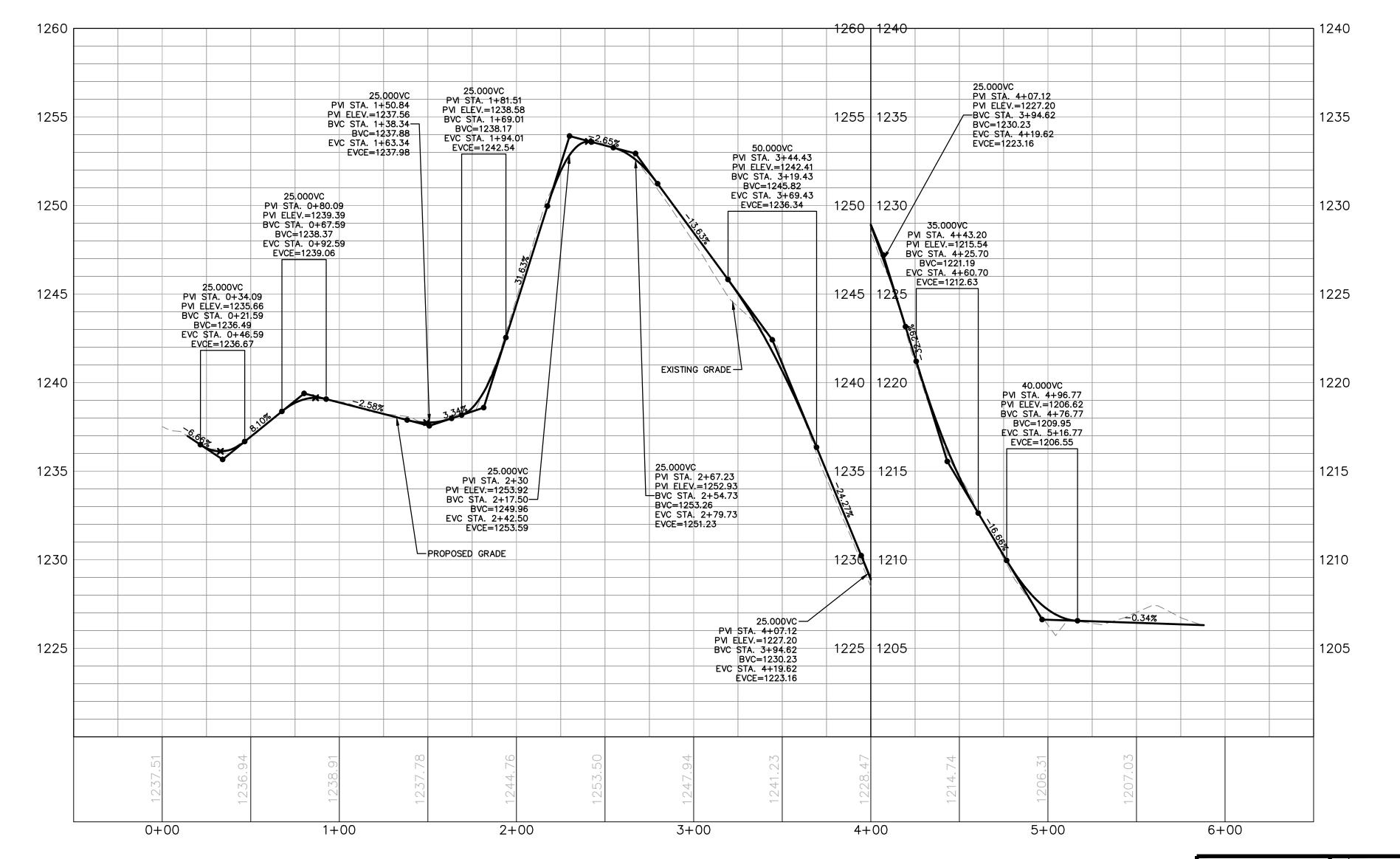
PROPOSED PERMANENT ACCESS ROAD
PAR-22 @ M.P. 28.52
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

REVISION DESCRIPTION

W.O. NO. CHK. APP. DRAWN BY: CHECKED BY: APPROVED BY:

DATE: 10/29/2013 ISSUED FOR BID: SCALE: AS NOTED SSUED FOR CONSTRUCTION: 26-26-85/PAR-22.7



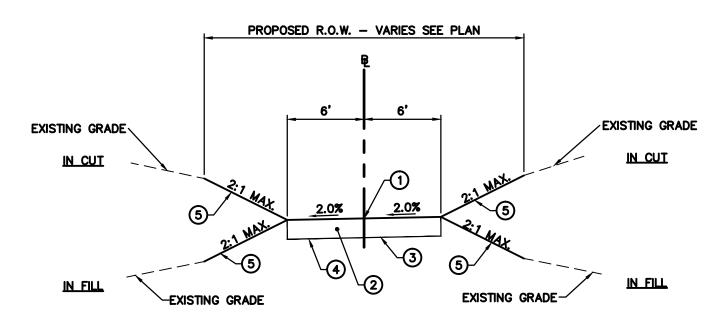


GENERAL NOTES

- 1. CHECK DAMS SHALL BE INSTALLED WITHIN ALL SWALES IN ACCORDANCE WITH THE CHECK DAM BEST MANAGEMENT PRACTICE
- REFER TO THE ACCESS ROAD GENERAL NOTES FOR SPECIFIC INSTALLATION AND MAINTENANCE SPECIFICATIONS, ACCESS ROAD
- LEGEND AND MISCELLANEOUS GENERAL NOTES. 3. PROPOSED TRUCK PULL OFF ARE TEMPORARY AND SHALL BE REMOVED AFTER CONSTRUCTION. THE PULL OFF AREA SHALL BE REGRADED TO MATCH PRE CONSTRUCTION CONTOURS WHERE PRACTICAL ALL PROPOSED PERMANENT SWALES AND ASSOCIATED CHECK DAMS SHALL BE REMOVED AND REINSTALLED ALONG THE PROPOSED EDGE OF ROAD.
- 4. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY CONSTITUTION AND/OR ITS ENGINEER OF ANY CONDITIONS THAT
- VARY FROM WHAT IS DEPICTED ON THIS PLAN.

 5. THE CONTRACTOR SHALL CONTACT 811 DIG SAFELY NEW YORK (1-800-962-7962) A MINIMUM OF 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 6. ALL SLOPES THAT ARE EQUAL TO OR STEEPER THAN 1(V): 3(H) SHALL BE SEEDED AND THEN COVERED WITH EROSION CONTROL
 MATTING. THE MATTING SHALL BE OR APPROVED EQUAL AND
 INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
- 7. ALL SLOPES THAT ARE STEEPER THAN 1(V): 2(H) SHALL BE COVERED WITH RIPRAP SLOPE PROTECTION. SEE SLOPE PROTECTION DETAIL FOR INSTALLATION GUIDELINES.

			TAR-22a				
No.	Northing	Easting	Bearing	Delta(△)	Length	Tangent	Radius
L1	B 15269818.21 E 15269740.37	B 1499671.48 E 1499735.15	S3916'39.40"E		100.56'		
C1	PC 15269740.37 PI 15269671.70 PT 15269585.81	PC 1499735.15 PI 1499791.30 PT 1499769.12		53°45'41"	164.20'	88.71'	175.0'
L2	B 15269585.81 E 15269491.08	B 1499769.12 E 1499744.65	S14°29'01.72"W		97.84		
C2	PC 15269491.08 PI 15269430.73 PT 15269394.64	PC 1499744.65 PI 1499729.06 PT 1499779.89		69*06'38"	109.18	62.34'	90.5'
L3	B 15269394.64 E 15269369.14	B 1499779.89 E 1499815.81	S54*37'35.86"E		44.05'		
С3	PC 15269369.14 PI 15269350.18 PT 15269350.69	PC 1499815.81 PI 1499842.51 PT 1499875.27		36"16'19"	63.31'	32.75'	100.0'
L4	B 15269350.69 E 15269350.82	B 1499875.27 E 1499883.21	N89°06'04.76"E		7.94'		



TYPICAL SECTION STA. 0+15 TO 5+87.09

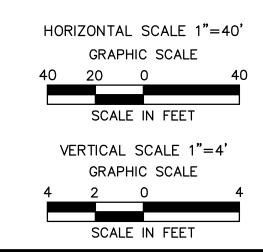
TYPICAL SECTION LEGEND

(1) CENTERLINE OF ACCESS ROAD

2)12" LAYER CRUSHER RUN GRAVEL

(3) FILTER FABRIC

4 UNDISTURBED GROUND IN CUTS/SUBBASE IN FILLS (5) EROSION CONTROL BLANKET, TOPSOIL AND SEED

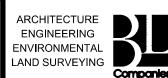


CONSTITUTION PIPELINE COMPANY, LLC PROPOSED 30" NATURAL GAS PIPELINE ACCESS ROADS - ROAD DESIGN PLAN PROPOSED TEMPORARY ACCESS ROAD

TAR-22A @ M.P. 28.85 TOWN OF SANFORD BROOME COUNTY, NEW YORK





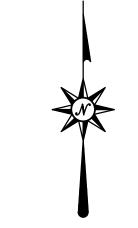


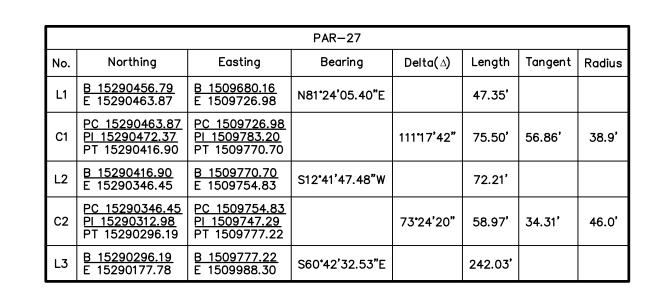
NO.	DATE	E
1.	07/21/14	

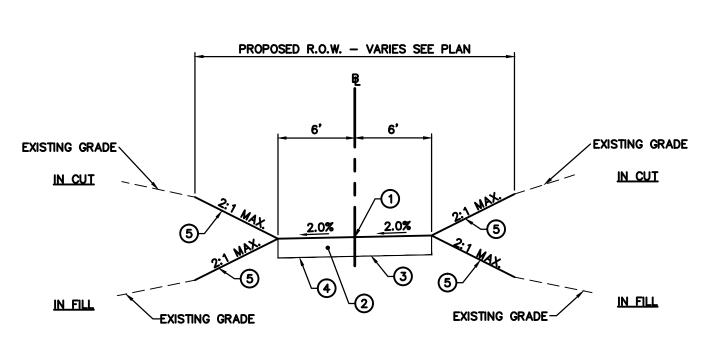
REVISION DESCRIPTION ISSUED FOR BID

W.O. NO. CHK. APP. CHECKED BY: APPROVED BY: DATE: 10/29/2013 ISSUED FOR BID: SSUED FOR CONSTRUCTION:

SCALE: AS NOTED 26-26-85/TAR-22A







TYPICAL SECTION STA. 0+00 TO 4+43

TYPICAL SECTION LEGEND

1) CENTERLINE OF ACCESS ROAD

2)12" LAYER CRUSHER RUN GRAVEL

3) FILTER FABRIC

1180.00

1175.00

1170.00

1165.00

1160.00

1155.00

1150.00

1145.00

4 UNDISTURBED GROUND IN CUTS/SUBBASE IN FILLS
(5) EROSION CONTROL BLANKET, TOPSOIL AND SEED

GENERAL NOTES

- 1. CHECK DAMS SHALL BE INSTALLED WITHIN ALL SWALES IN ACCORDANCE WITH THE CHECK DAM BEST MANAGEMENT PRACTICE
- DETAIL.

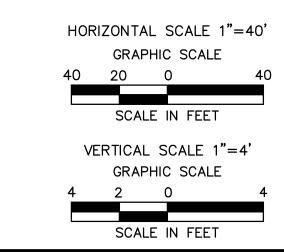
 2. REFER TO THE ACCESS ROAD GENERAL NOTES FOR SPECIFIC INSTALLATION AND MAINTENANCE SPECIFICATIONS, ACCESS ROAD
- LEGEND AND MISCELLANEOUS GENERAL NOTES.

 3. PROPOSED TRUCK PULL OFF ARE TEMPORARY AND SHALL BE REMOVED AFTER CONSTRUCTION. THE PULL OFF AREA SHALL BE REGRADED TO MATCH PRE CONSTRUCTION CONTOURS WHERE PRACTICAL. ALL PROPOSED PERMANENT SWALES AND ASSOCIATED CHECK DAMS SHALL BE REMOVED AND REINSTALLED ALONG THE
- PROPOSED EDGE OF ROAD.

 4. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY CONSTITUTION AND/OR ITS ENGINEER OF ANY CONDITIONS THAT
- VARY FROM WHAT IS DEPICTED ON THIS PLAN.

 5. THE CONTRACTOR SHALL CONTACT 811 DIG SAFELY NEW YORK
 (1-800-962-7962) A MINIMUM OF 72 HOURS PRIOR TO
 COMMENCEMENT OF CONSTRUCTION.
- 6. ALL SLOPES THAT ARE EQUAL TO OR STEEPER THAN 1(V): 3(H)
 SHALL BE SEEDED AND THEN COVERED WITH EROSION CONTROL
 MATTING. THE MATTING SHALL BE OR APPROVED EQUAL AND
 INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS
- SPECIFICATIONS.

 7. ALL SLOPES THAT ARE STEEPER THAN 1(V): 2(H) SHALL BE COVERED WITH RIPRAP SLOPE PROTECTION. SEE SLOPE PROTECTION DETAIL FOR INSTALLATION GUIDELINES.



CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
ACCESS ROADS — ROAD DESIGN PLAN
PROPOSED TEMPORARY ACCESS ROAD
TAR-27 @ M.P. 33.84



SCALE: AS NOTED

ISSUED FOR BID
NOT FOR CONSTRUCTION

4+00

-0.43%

_PC STA. 0+47.35

APPROXIMATE LIMITS OF PROPOSED TEMPORARY ACCESS ROAD CORRIDOR

BEGIN PROPOSED IMPROVEMENTS AT-

ROADWAY STA. 1+30. MATCH EXISTING GRAVEL DRIVE.

PROPOSED 20 INCH SILT

0+00

1+00

FENCE SEDIMENT BARRIER

AND LIMIT OF DISTURBANCE

1180.00

1175.00

1170.00

1165.00

1160.00

1155.00

1150.00

1145.00

-EXISTING GRAVEL DRIVE.
PROPOSED IMPROVEMENTS BEGIN

- EXISTING EDGE GRAVEL ACCESS DRIVE (TYP.)

EXISTING 36" CMP CROSS CULVERT TO REMAIN – INSTALL CONSTRUCTION EQUIPMENT MATS OVERTOP OF THE

ANTICIPATED CONSTRUCTION VEHICLE

TEMPORARY ACCESS ROAD

PROPOSED EDGE GRAVEL ACCESS DRIVE (TYP.)

EXISTING CULVERT TO DISPERSE

AT STA. 1+30.

Dew Dec Farms, Inc.

LOADS EVENLY

SEE SITE SPECIFIC WATERBODY CROSSING DRAWING FOR MORE DETAIL

L.V.C. = 100.00FT PVI STA. 2+71.20 PVI ELEV.=1146.63 PVC STA. 2+21.20 PVC ELEV. =1152.72 PVC STA. 3+21.20 PVC ELEV.=1146.41

3+00

-WATERBODY - BR-1B-S056A

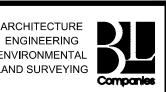
-STA. 1+30 MATCH EXISTING GRADE

PROPOSED GRADE

__EXISTING GRADE

2+00

ALT-B-NY-BR-037.000



5+00

— APPROXIMATE LIMIT OF TEMPORARY WORKSPACE

— APPROXIMATE LIMIT OF PERMANENT RIGHT OF WAY

- APPROXIMATE CENTERLINE OF PROPOSED 30"

CONSTITUTION PIPELINE

NO. DATE BY ISSU

BY REVISION DESCRIPTION

ISSUED FOR BID

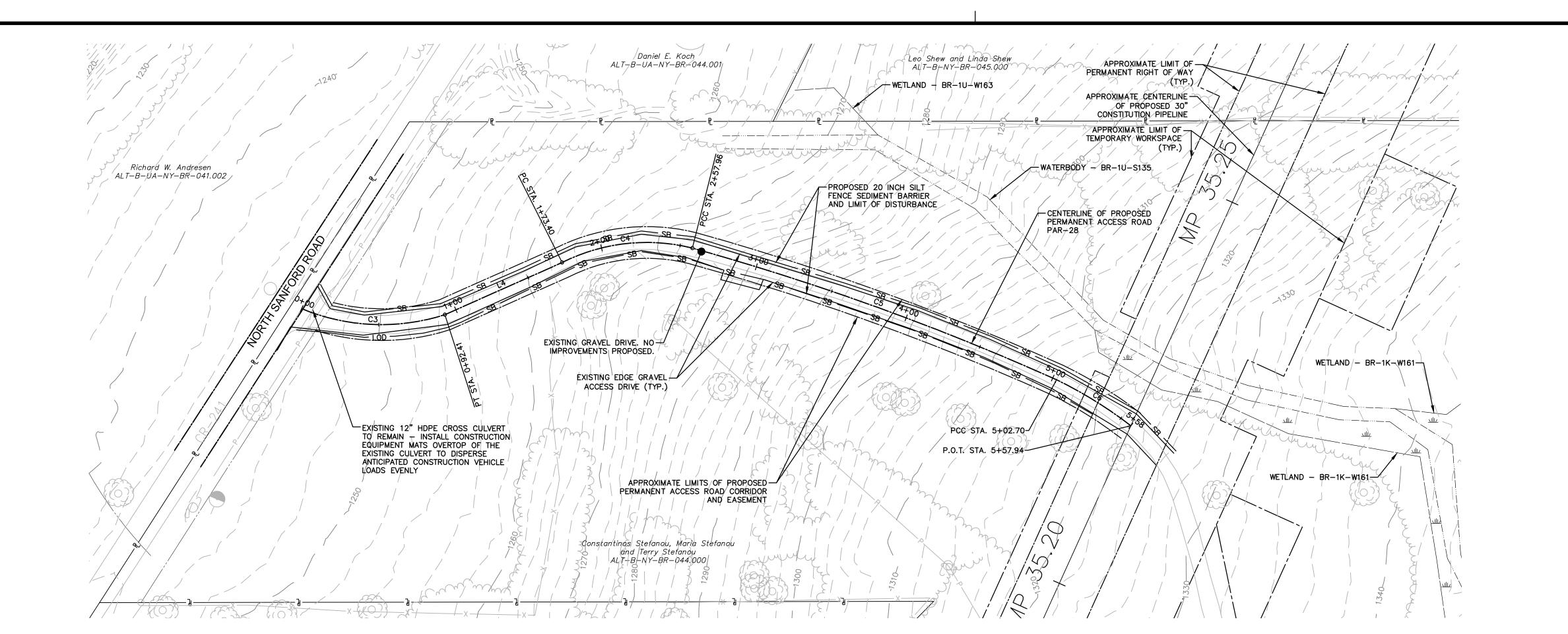
W.O. NO. CHK. APP. DRAWN BY:
CHECKED BY:
APPROVED BY:
WO:

TOWN OF SANFORD
BROOME COUNTY, NEW YORK

DATE: ISSUED FOR BID:

DATE: DATE: DRAWING

APPROVED BY: DATE: DRAWING NUMBER: 26-26-85/TAR-27 SHEET 19 OF 102



1270 | 1300

1265 | 1295

1260 | 1290

1255 | 1285

1250 | 1280

1245 | 1275

1240 | 1270

2+00

EXISTING GRADE TO REMAIN

3+00

1270

1265

1260

1255

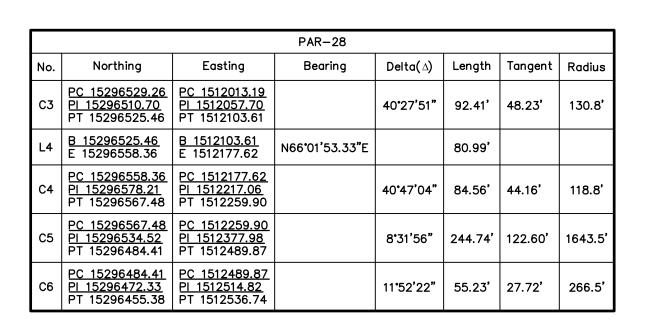
1250

1245

1240

0+00

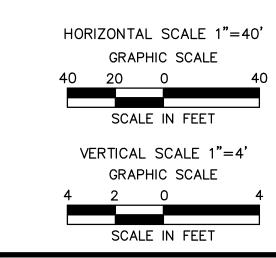
1+00



GENERAL NOTES

- 1. CHECK DAMS SHALL BE INSTALLED WITHIN ALL SWALES IN ACCORDANCE WITH THE CHECK DAM BEST MANAGEMENT PRACTICE
- 2. REFER TO THE ACCESS ROAD GENERAL NOTES FOR SPECIFIC INSTALLATION AND MAINTENANCE SPECIFICATIONS, ACCESS ROAD
- LEGEND AND MISCELLANEOUS GENERAL NOTES.

 3. PROPOSED TRUCK PULL OFF ARE TEMPORARY AND SHALL BE REMOVED AFTER CONSTRUCTION. THE PULL OFF AREA SHALL BE REGRADED TO MATCH PRE CONSTRUCTION CONTOURS WHERE PRACTICAL. ALL PROPOSED PERMANENT SWALES AND ASSOCIATED CHECK DAMS SHALL BE REMOVED AND REINSTALLED ALONG THE PROPOSED EDGE OF ROAD.
- 4. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY CONSTITUTION AND/OR ITS ENGINEER OF ANY CONDITIONS THAT
- VARY FROM WHAT IS DEPICTED ON THIS PLAN. 5. THE CONTRACTOR SHALL CONTACT 811 DIG SAFELY NEW YORK (1-800-962-7962) A MINIMUM OF 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 6. ALL SLOPES THAT ARE EQUAL TO OR STEEPER THAN 1(V): 3(H)
 SHALL BE SEEDED AND THEN COVERED WITH EROSION CONTROL
 MATTING. THE MATTING SHALL BE OR APPROVED EQUAL AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
- 7. ALL SLOPES THAT ARE STEEPER THAN 1(V): 2(H) SHALL BE COVERED WITH RIPRAP SLOPE PROTECTION. SEE SLOPE PROTECTION DETAIL FOR INSTALLATION GUIDELINES.



CONSTITUTION PIPELINE COMPANY, LLC PROPOSED 30" NATURAL GAS PIPELINE ACCESS ROADS - ROAD DESIGN PLAN PROPOSED PERMANENT ACCESS ROAD PAR-28 @ M.P. 35.20



ISSUED FOR BID NOT FOR CONSTRUCTION

5+00

| 1300 | 1325

1295 | 1320

| 1290 | 1315 |

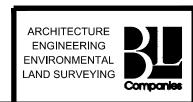
1285 | 1310

1280 | 1305

<u> 1275 | 1300 </u>

1270 | 1295

4+00



1325

1320

1315

1310

1305

1300

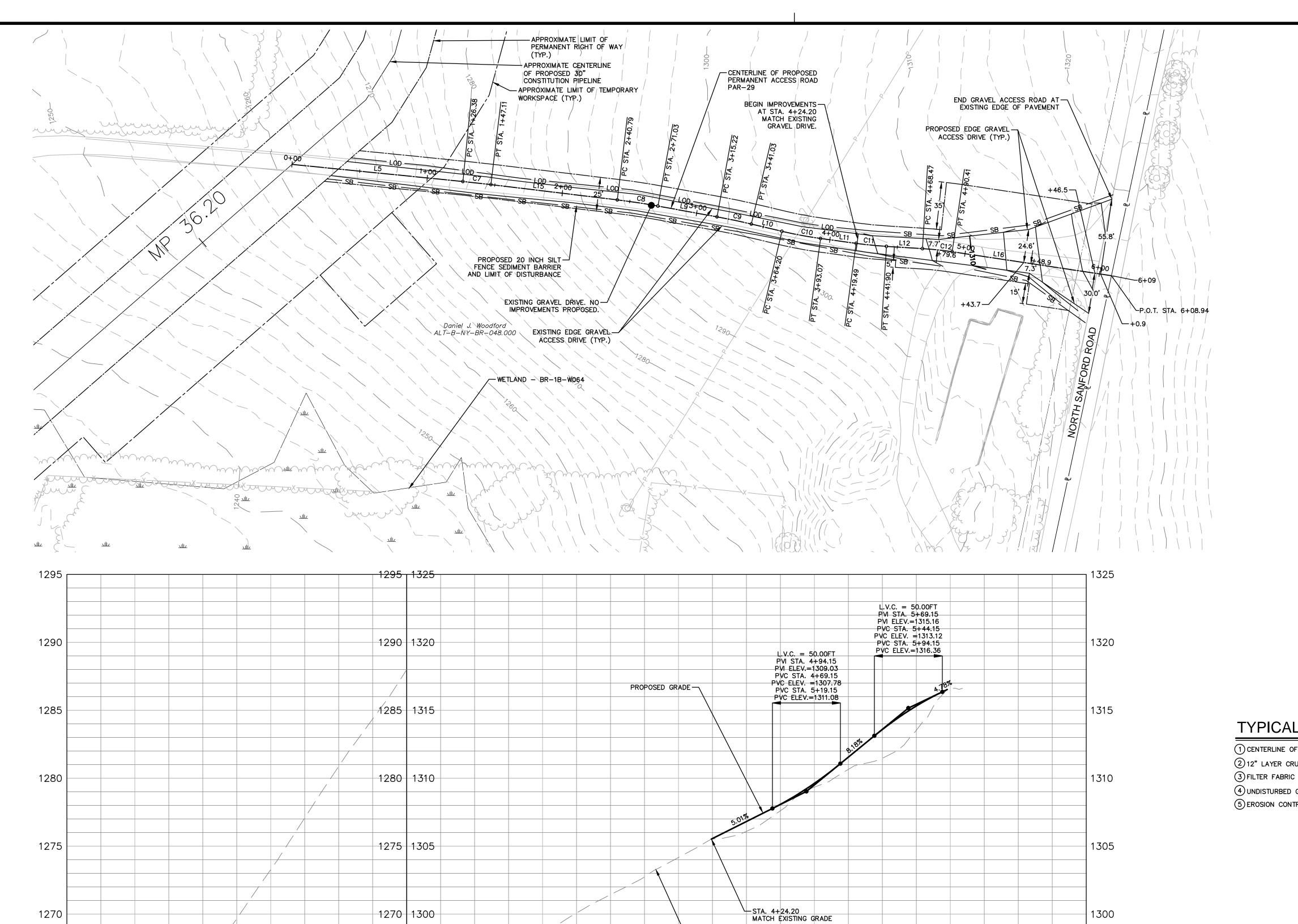
1295

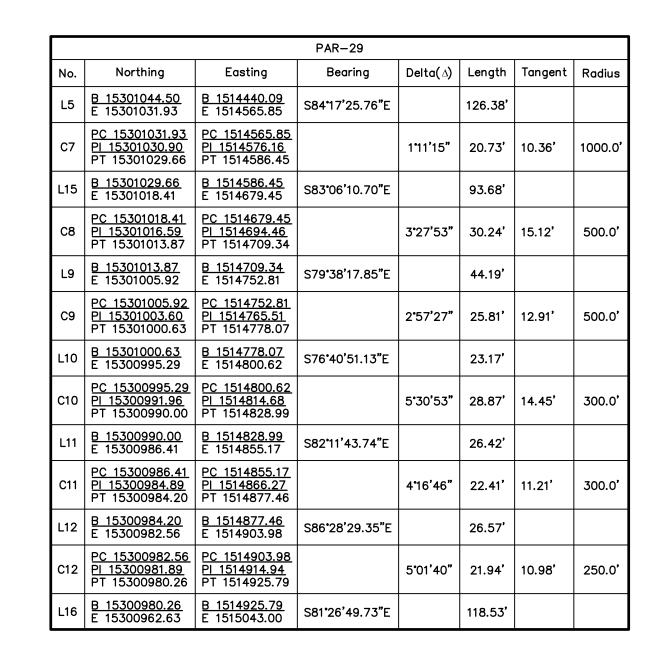
REVISION DESCRIPTION ISSUED FOR BID

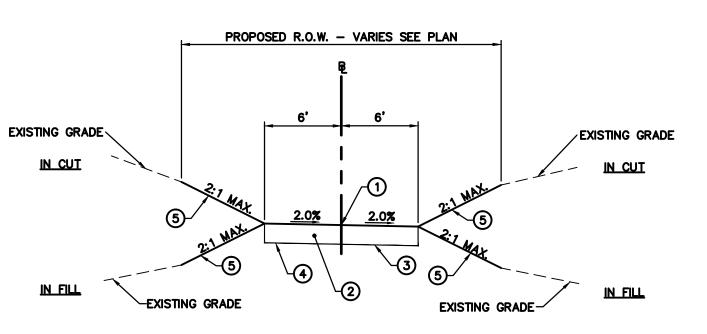
W.O. NO. | CHK. | APP. CHECKED BY: APPROVED BY:

TOWN OF SANFORD BROOME COUNTY, NEW YORK DATE: 10/29/2013 ISSUED FOR BID: SSUED FOR CONSTRUCTION:

SCALE: AS NOTED 26-26-85/PAR-28







TYPICAL SECTION STA. 4+24 TO 5+96

TYPICAL SECTION LEGEND

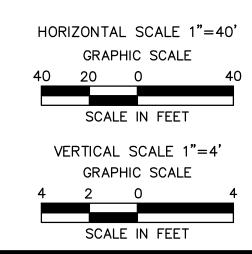
(1) CENTERLINE OF ACCESS ROAD

2 12" LAYER CRUSHER RUN GRAVEL

4 UNDISTURBED GROUND IN CUTS/SUBBASE IN FILLS (5) EROSION CONTROL BLANKET, TOPSOIL AND SEED

GENERAL NOTES

- 1. CHECK DAMS SHALL BE INSTALLED WITHIN ALL SWALES IN ACCORDANCE WITH THE CHECK DAM BEST MANAGEMENT PRACTICE
- 2. REFER TO THE ACCESS ROAD GENERAL NOTES FOR SPECIFIC INSTALLATION AND MAINTENANCE SPECIFICATIONS, ACCESS ROAD
- LEGEND AND MISCELLANEOUS GENERAL NOTES. 3. PROPOSED TRUCK PULL OFF ARE TEMPORARY AND SHALL BE REMOVED AFTER CONSTRUCTION. THE PULL OFF AREA SHALL BE REGRADED TO MATCH PRE CONSTRUCTION CONTOURS WHERE PRACTICAL. ALL PROPOSED PERMANENT SWALES AND ASSOCIATED CHECK DAMS SHALL BE REMOVED AND REINSTALLED ALONG THE PROPOSED EDGE OF ROAD.
- 4. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY
- CONSTITUTION AND/OR ITS ENGINEER OF ANY CONDITIONS THAT VARY FROM WHAT IS DEPICTED ON THIS PLAN. 5. THE CONTRACTOR SHALL CONTACT 811 DIG SAFELY NEW YORK
- (1-800-962-7962) A MINIMUM OF 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION. 6. ALL SLOPES THAT ARE EQUAL TO OR STEEPER THAN 1(V): 3(H) SHALL BE SEEDED AND THEN COVERED WITH EROSION CONTROL
 MATTING. THE MATTING SHALL BE OR APPROVED EQUAL AND
 INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS
- SPECIFICATIONS. 7. ALL SLOPES THAT ARE STEEPER THAN 1(V): 2(H) SHALL BE COVERED WITH RIPRAP SLOPE PROTECTION. SEE SLOPE PROTECTION DETAIL FOR INSTALLATION GUIDELINES.



CONSTITUTION PIPELINE COMPANY, LLC PROPOSED 30" NATURAL GAS PIPELINE ACCESS ROADS - ROAD DESIGN PLAN PROPOSED PERMANENT ACCESS ROAD PAR-29 @ M.P. 36.16



ISSUED FOR BID NOT FOR CONSTRUCTION

5+00

131

-EXISTING GRADE

4+00

1265 | 1295

1260 | 1290

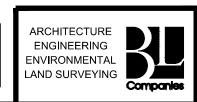
2+00

3+00

1260

0+00

1+00



6+00

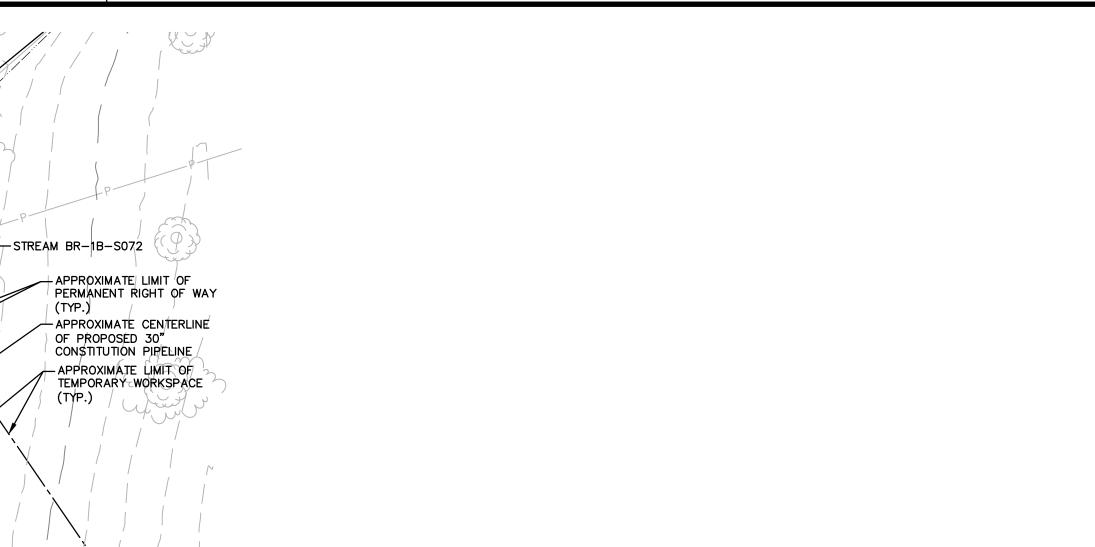
1295

1290

REVISION DESCRIPTION W.O. NO. | CHK. | APP ISSUED FOR BID

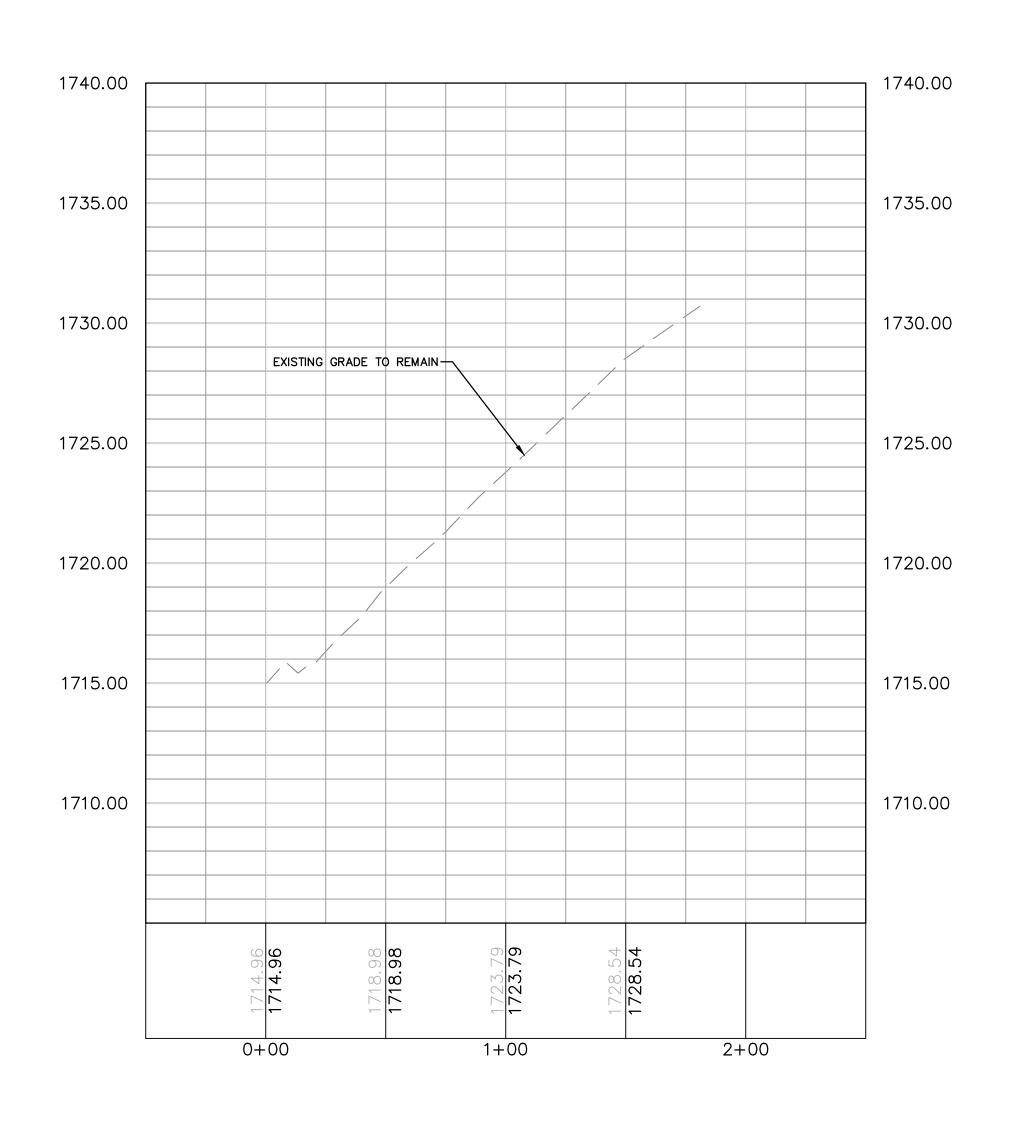
TOWN OF SANFORD BROOME COUNTY, NEW YORK DATE: 10/29/2013 ISSUED FOR BID: CHECKED BY: SSUED FOR CONSTRUCTION: APPROVED BY:

AS NOTED 26-26-85/PAR-29





			PAR-31				
No.	Northing	Easting	Bearing	Delta(△)	Length	Tangent	Radius
L4	B 15320337.94 E 15320363.06	B 1503026.14 E 1503063.19	N55*51'23.19"E		44.77'		
C2	PC 15320363.06 PI 15320374.91 PT 15320388.15	PC 1503063.19 PI 1503080.38 PT 1503096.52		4°46'55"	41.73	20.88'	500.0'
L3	B 15320388.15 E 15320447.16	B 1503096.52 E 1503170.12	N51°16'34.50"E		94.33'		



WETLAND BR-1B-W082

Alex Demetriades, C/O

World Properties
ALT-B-NY-BR-076.000

←STREAM BR-1B-S073

AVOID OVERHEAD -UTIĻITY LINES

CASS ROAD

EXISTING 18" HDPE CROSS CULVERT TO REMAIN - INSTALL CONSTRUCTION EQUIPMENT MATS OVERTOP OF THE

EXISTING CULVERT TO DISPERSE ANTICIPATED CONSTRUCTION VEHICLE

LOADS EVENLY/

FENCE SEDIMENT BARRIER AND LIMIT OF DISTURBANCE

PROPOSED SUPER SILT-

APPROXIMATE LIMITS OF PROPOSED-

AND EASEMENT

PERMANENT ACCESS ROAD CORRIDOR

Francis M. Conti, Martin E. Crimmins, Suzarne E. Kahlay, Carolyn J. Crosby

and Betty M. Darcy ALT—B—UA—NY—BR—077.001

EXISTING GRAVEL DRIVE. NO-IMPROVEMENTS PROPOSED.

EDGE OF EXISTING GRAVEL

ACCESS DRIVE TO REMAIN

CENTERLINE OF PROPOSED PERMANENT ACCESS ROAD

Robert McCormack

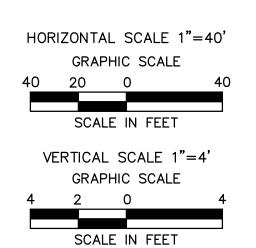
ALT-B-UA-NY-BR-076.001

Donald J. Reithoffer, Jr. ALT-B-NY-BR-077.000/

GENERAL NOTES

- 1. CHECK DAMS SHALL BE INSTALLED WITHIN ALL SWALES IN ACCORDANCE WITH THE CHECK DAM BEST MANAGEMENT PRACTICE
- 2. REFER TO THE ACCESS ROAD GENERAL NOTES FOR SPECIFIC INSTALLATION AND MAINTENANCE SPECIFICATIONS, ACCESS ROAD
- LEGEND AND MISCELLANEOUS GENERAL NOTES.

 3. PROPOSED TRUCK PULL OFF ARE TEMPORARY AND SHALL BE REMOVED AFTER CONSTRUCTION. THE PULL OFF AREA SHALL BE REGRADED TO MATCH PRE CONSTRUCTION CONTOURS WHERE PRACTICAL. ALL PROPOSED PERMANENT SWALES AND ASSOCIATED CHECK DAMS SHALL BE REMOVED AND REINSTALLED ALONG THE PROPOSED EDGE OF ROAD.
- 4. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY CONSTITUTION AND/OR ITS ENGINEER OF ANY CONDITIONS THAT
- VARY FROM WHAT IS DEPICTED ON THIS PLAN. 5. THE CONTRACTOR SHALL CONTACT 811 DIG SAFELY NEW YORK (1-800-962-7962) A MINIMUM OF 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 6. ALL SLOPES THAT ARE EQUAL TO OR STEEPER THAN 1(V): 3(H)
 SHALL BE SEEDED AND THEN COVERED WITH EROSION CONTROL
 MATTING. THE MATTING SHALL BE OR APPROVED EQUAL AND
 INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
- 7. ALL SLOPES THAT ARE STEEPER THAN 1(V): 2(H) SHALL BE COVERED WITH RIPRAP SLOPE PROTECTION. SEE SLOPE PROTECTION DETAIL FOR INSTALLATION GUIDELINES.



CONSTITUTION PIPELINE COMPANY, LLC PROPOSED 30" NATURAL GAS PIPELINE ACCESS ROADS - ROAD DESIGN PLAN PROPOSED PERMANENT ACCESS ROAD

PAR-31 @ M.P. 40.69 TOWN OF SANFORD BROOME COUNTY, NEW YORK

ISSUED FOR BID NOT FOR CONSTRUCTION



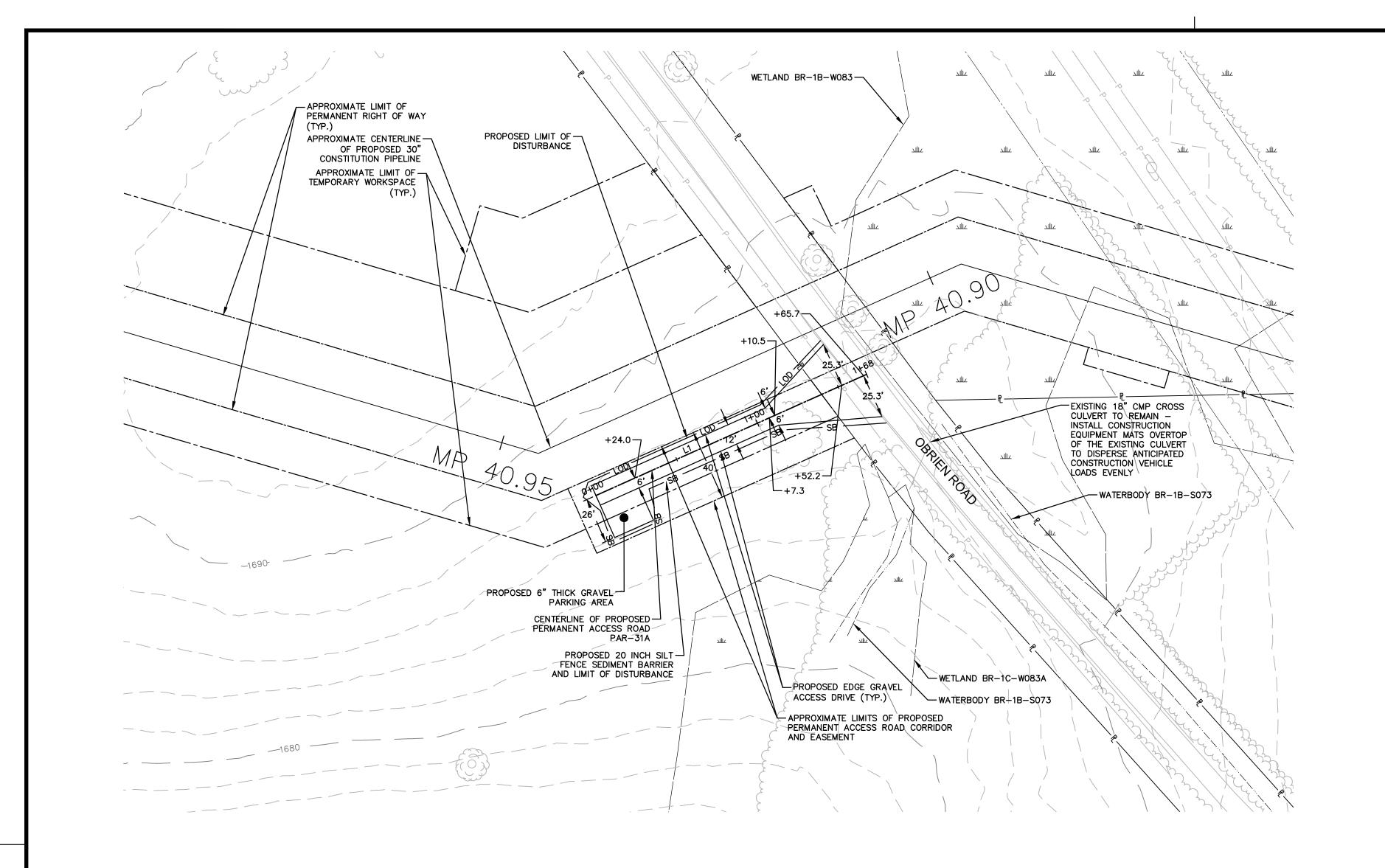
DATE	BY	F	₹E
07/21/14		ISSUED FOR BID	

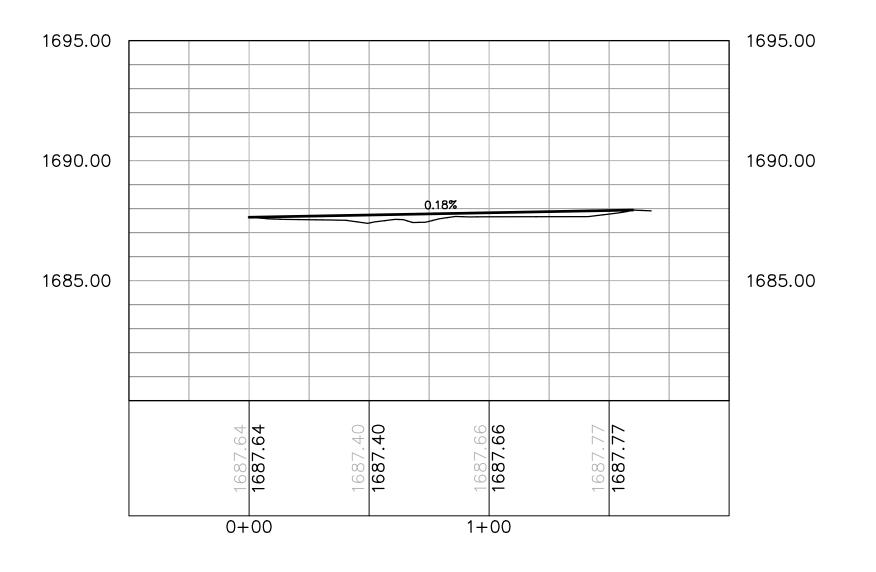
REVISION DESCRIPTION

W.O. NO. | CHK. | APP. APPROVED BY:

DATE: 10/29/2013 ISSUED FOR BID: CHECKED BY: SSUED FOR CONSTRUCTION:

SCALE: AS NOTED 26-26-85/PAR-31





TYPICAL SECTION LEGEND

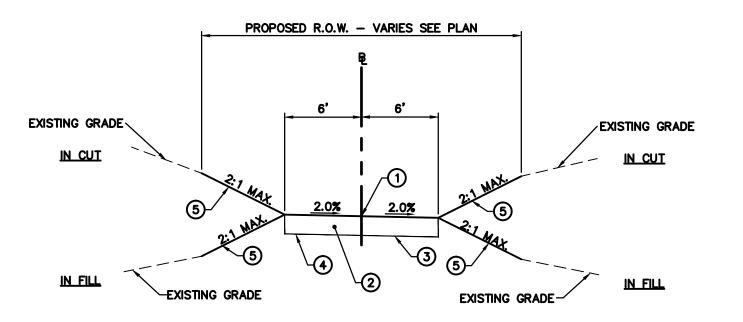
1) CENTERLINE OF ACCESS ROAD

2 12" LAYER CRUSHER RUN GRAVEL

3 FILTER FABRIC

4 UNDISTURBED GROUND IN CUTS/SUBBASE IN FILLS
5 EROSION CONTROL BLANKET, TOPSOIL AND SEED





TYPICAL SECTION STA. 0+00 TO 1+59

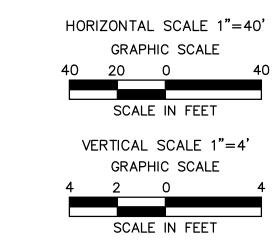
PAR-31A							
No.	Northing	Easting	Bearing	Delta(△)	Length	Tangent	Radius
L1	B 15320834.55 E 15320903.01	B 1502371.53 E 1502524.44	N65°52'58.71"E		167.52'		

GENERAL NOTES

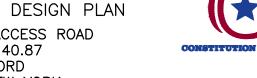
- 1. CHECK DAMS SHALL BE INSTALLED WITHIN ALL SWALES IN ACCORDANCE WITH THE CHECK DAM BEST MANAGEMENT PRACTICE DETAIL.
- 2. REFER TO THE ACCESS ROAD GENERAL NOTES FOR SPECIFIC INSTALLATION AND MAINTENANCE SPECIFICATIONS, ACCESS ROAD
- LEGEND AND MISCELLANEOUS GENERAL NOTES.

 3. PROPOSED TRUCK PULL OFF ARE TEMPORARY AND SHALL BE REMOVED AFTER CONSTRUCTION. THE PULL OFF AREA SHALL BE REGRADED TO MATCH PRE CONSTRUCTION CONTOURS WHERE PRACTICAL. ALL PROPOSED PERMANENT SWALES AND ASSOCIATED CHECK DAMS SHALL BE REMOVED AND REINSTALLED ALONG THE PROPOSED EDGE OF ROAD.
- 4. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY CONSTITUTION AND/OR ITS ENGINEER OF ANY CONDITIONS THAT
- VARY FROM WHAT IS DEPICTED ON THIS PLAN.

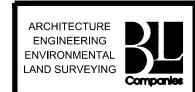
 5. THE CONTRACTOR SHALL CONTACT 811 DIG SAFELY NEW YORK
 (1-800-962-7962) A MINIMUM OF 72 HOURS PRIOR TO
 COMMENCEMENT OF CONSTRUCTION.
- 6. ALL SLOPES THAT ARE EQUAL TO OR STEEPER THAN 1(V): 3(H) SHALL BE SEEDED AND THEN COVERED WITH EROSION CONTROL MATTING. THE MATTING SHALL BE OR APPROVED EQUAL AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
- 7. ALL SLOPES THAT ARE STEEPER THAN 1(V): 2(H) SHALL BE COVERED WITH RIPRAP SLOPE PROTECTION. SEE SLOPE PROTECTION DETAIL FOR INSTALLATION GUIDELINES.



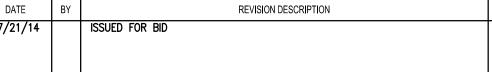
CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
ACCESS ROADS — ROAD DESIGN PLAN
PROPOSED PERMANENT ACCESS ROAD
PAR—31A @ M.P. 40.87



ISSUED FOR BID
NOT FOR CONSTRUCTION



	NO.	DATE
	1.	07/21/14
panies		



W.O. NO. CHK. APP. DRAWN BY:

CHECKED BY:

APPROVED BY:

WO:

TOWN OF SANFORD BROOME COUNTY, NEW YORK

DRAWN BY: DATE: 10/29/2013 ISSUED FOR BID:

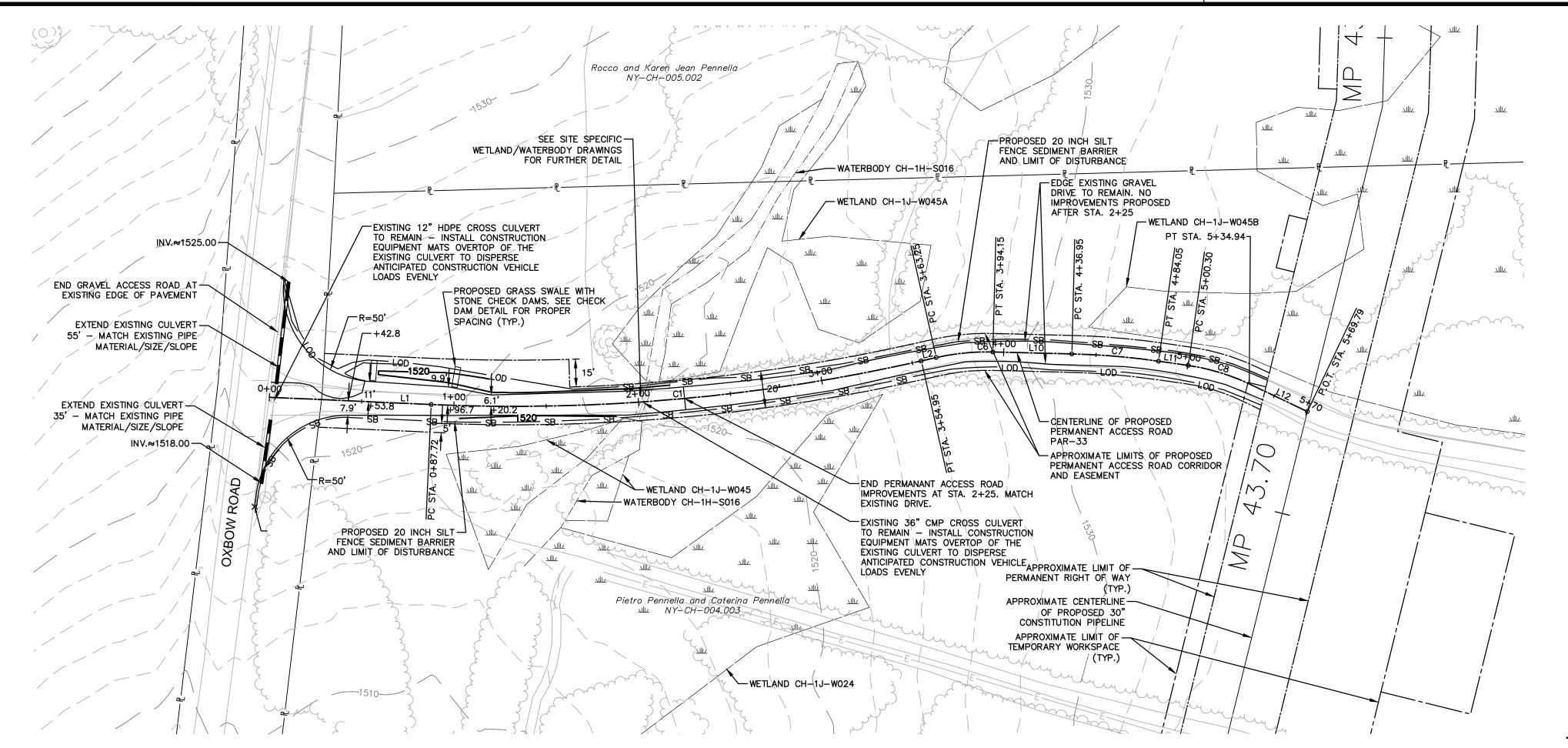
CHECKED BY: DATE: ISSUED FOR CONSTRUCTION:

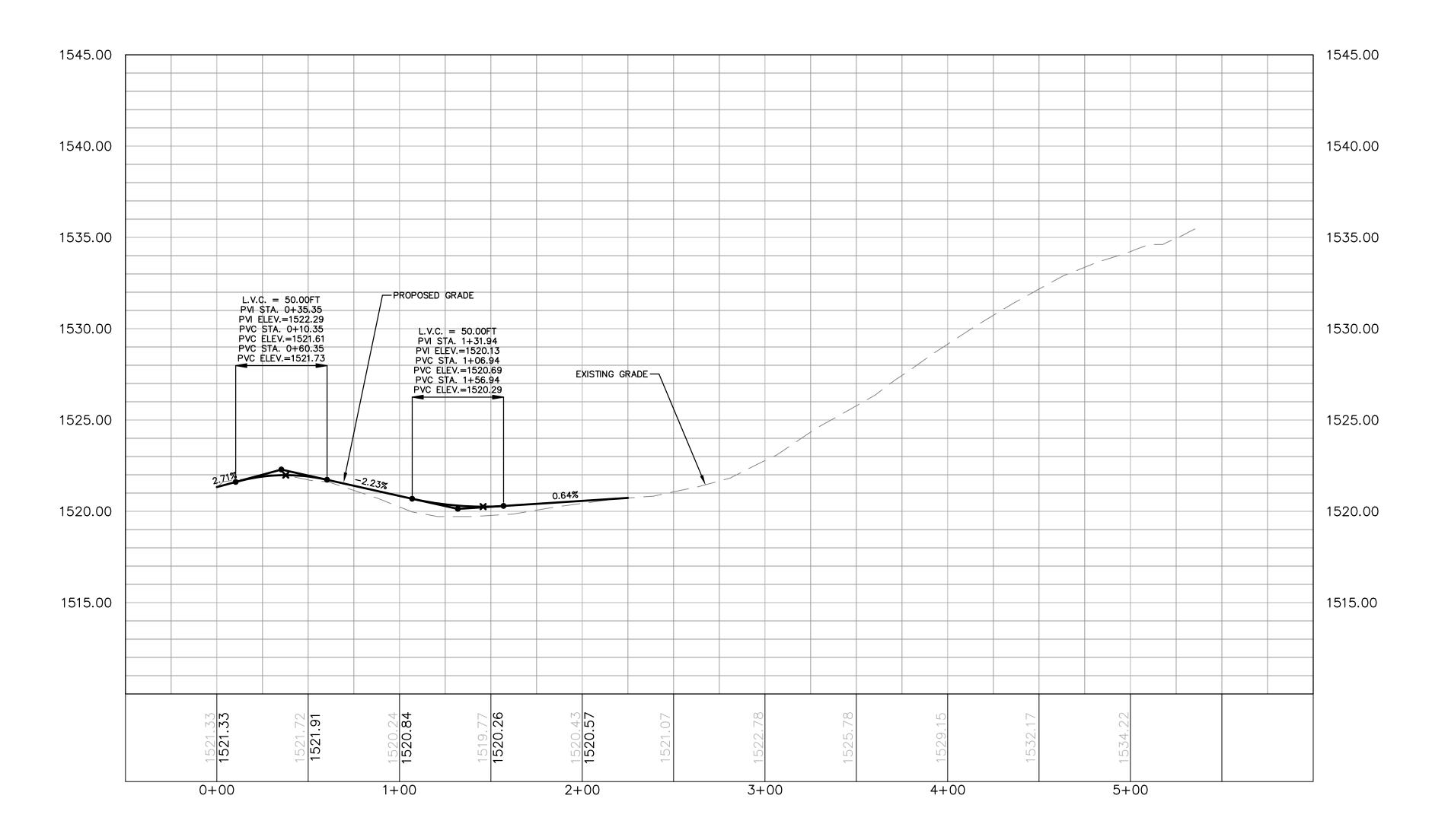
SCALE: AS NOTED

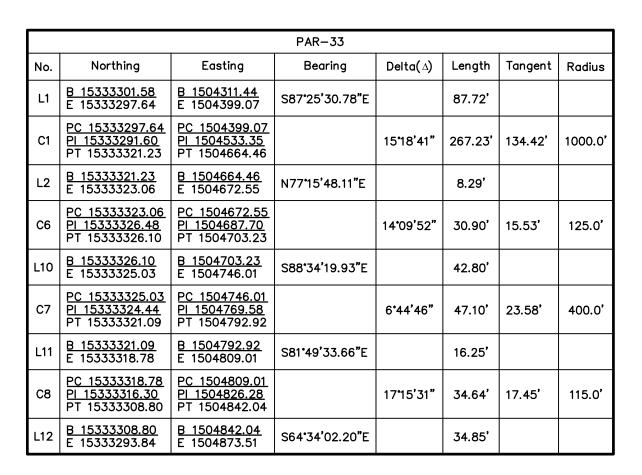
UCTION:

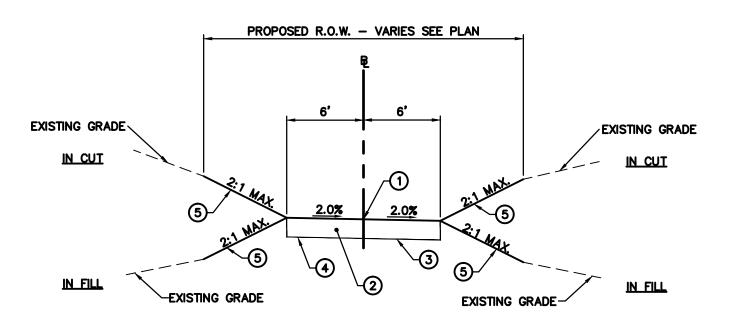
26-26-85/PAR-31A

SHEET 2









TYPICAL SECTION LEGEND

(1) CENTERLINE OF ACCESS ROAD

2 12" LAYER CRUSHER RUN GRAVEL

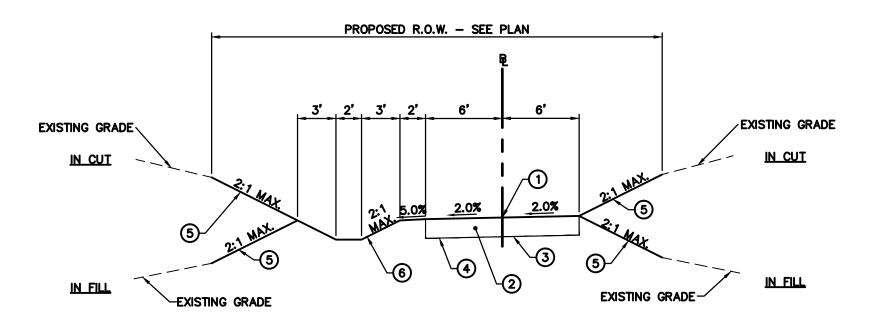
(3) FILTER FABRIC

(4) UNDISTURBED GROUND IN CUTS/SUBBASE IN FILLS

5 EROSION CONTROL BLANKET, TOPSOIL AND SEED

6 GRASS LINED SWALE (SEE ACCESS ROAD CALCULATIONS FOR EROSION CONTROL MATTING TYPE)

TYPICAL SECTION STA. 0+00 TO 0+50 AND 1+25 TO 2+25



TYPICAL SECTION STA. 0+50 TO 1+25

GENERAL NOTES

- 1. CHECK DAMS SHALL BE INSTALLED WITHIN ALL SWALES IN ACCORDANCE WITH THE CHECK DAM BEST MANAGEMENT PRACTICE
- 2. REFER TO THE ACCESS ROAD GENERAL NOTES FOR SPECIFIC INSTALLATION AND MAINTENANCE SPECIFICATIONS, ACCESS ROAD LEGEND AND MISCELLANEOUS GENERAL NOTES.
- 3. PROPOSED TRUCK PULL OFF ARE TEMPORARY AND SHALL BE REMOVED AFTER CONSTRUCTION. THE PULL OFF AREA SHALL BE REGRADED TO MATCH PRE CONSTRUCTION CONTOURS WHERE PRACTICAL. ALL PROPOSED PERMANENT SWALES AND ASSOCIATED CHECK DAMS SHALL BE REMOVED AND REINSTALLED ALONG THE PROPOSED EDGE OF ROAD.
- 4. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY CONSTITUTION AND/OR ITS ENGINEER OF ANY CONDITIONS THAT VARY FROM WHAT IS DEPICTED ON THIS PLAN.

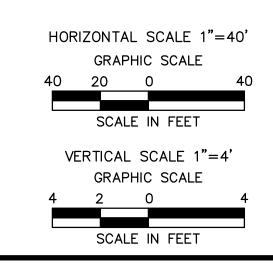
5. THE CONTRACTOR SHALL CONTACT 811 DIG SAFELY NEW YORK

(1-800-962-7962) A MINIMUM OF 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
6. ALL SLOPES THAT ARE EQUAL TO OR STEEPER THAN 1(V): 3(H) SHALL BE SEEDED AND THEN COVERED WITH EROSION CONTROL MATTING. THE MATTING SHALL BE OR APPROVED EQUAL AND

INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS

SPECIFICATIONS.

7. ALL SLOPES THAT ARE STEEPER THAN 1(V): 2(H) SHALL BE COVERED WITH RIPRAP SLOPE PROTECTION. SEE SLOPE PROTECTION DETAIL FOR INSTALLATION GUIDELINES.



CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
ACCESS ROADS — ROAD DESIGN PLAN
PROPOSED PERMANENT ACCESS ROAD
PAR—33 @ M.P. 43.69

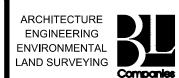
PSED PERMANENT ACCESS ROAD

PAR-33 @ M.P. 43.69

TOWN OF AFTON

ENANCO COUNTY NEW YORK

ISSUED FOR BID
NOT FOR CONSTRUCTION



	NO.	DATE
4 - 1	1.	07/21/14
noanles		

DATE BY REVISION DESCRIPTION
7/21/14 ISSUED FOR BID

 W.O. NO.
 CHK.
 APP.
 DRAWN BY:
 DATE:
 10/29/2013
 ISSUED FOR BID:

 CHECKED BY:
 DATE:
 ISSUED FOR CONSTRUCTION:

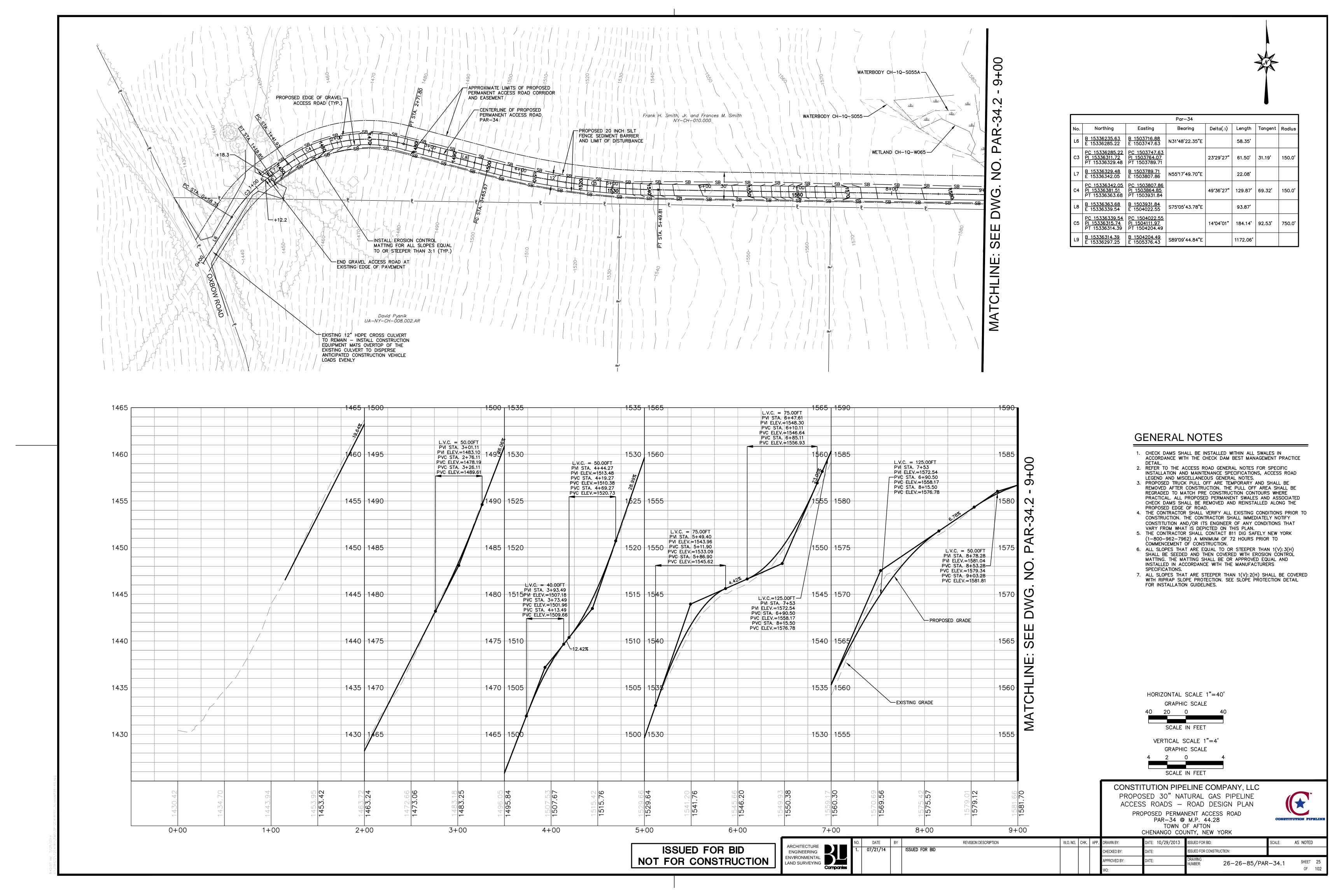
 APPROVED BY:
 DATE:
 DRAWING NUMBER:
 26

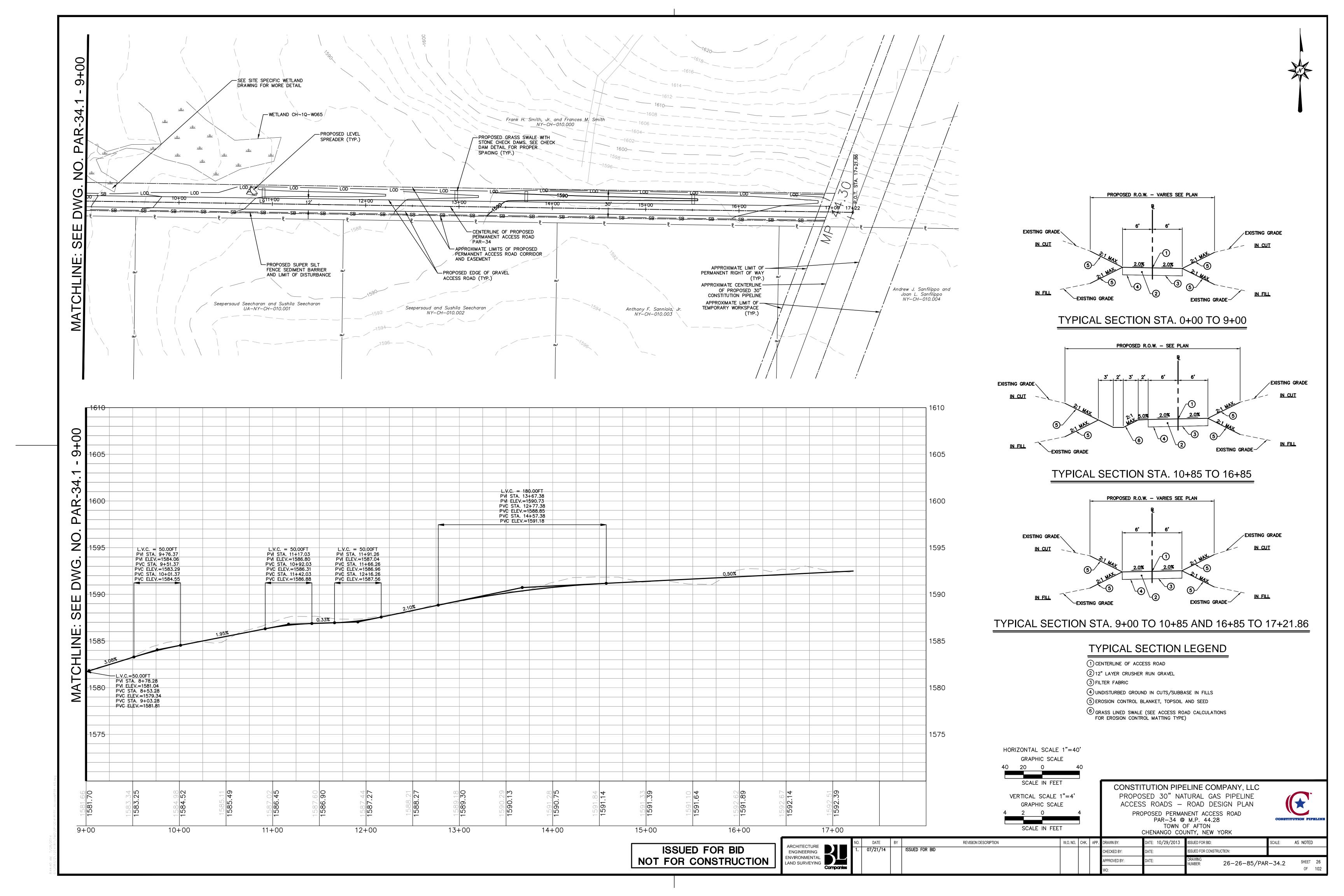
SCALE: AS NOTED

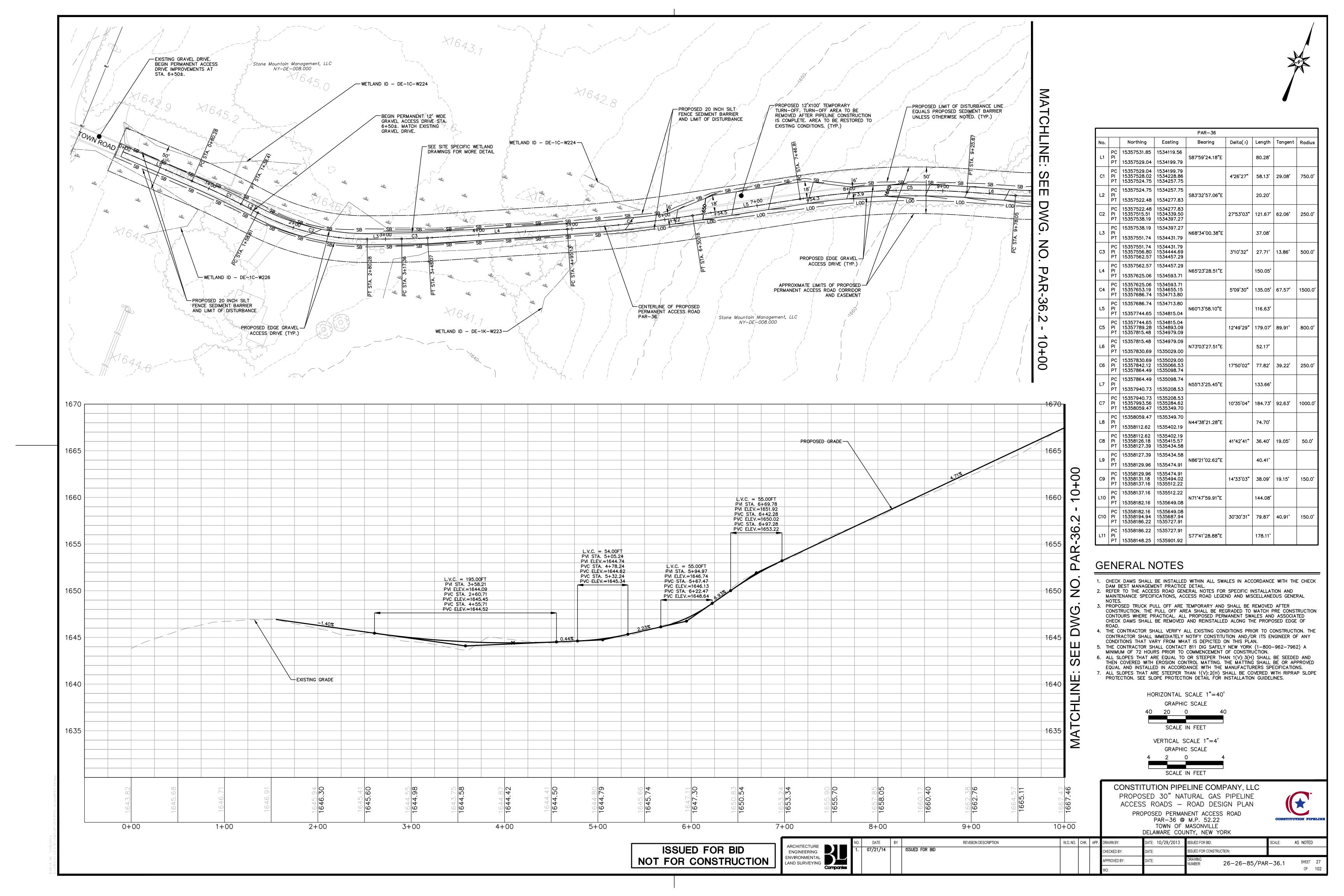
OCTION:

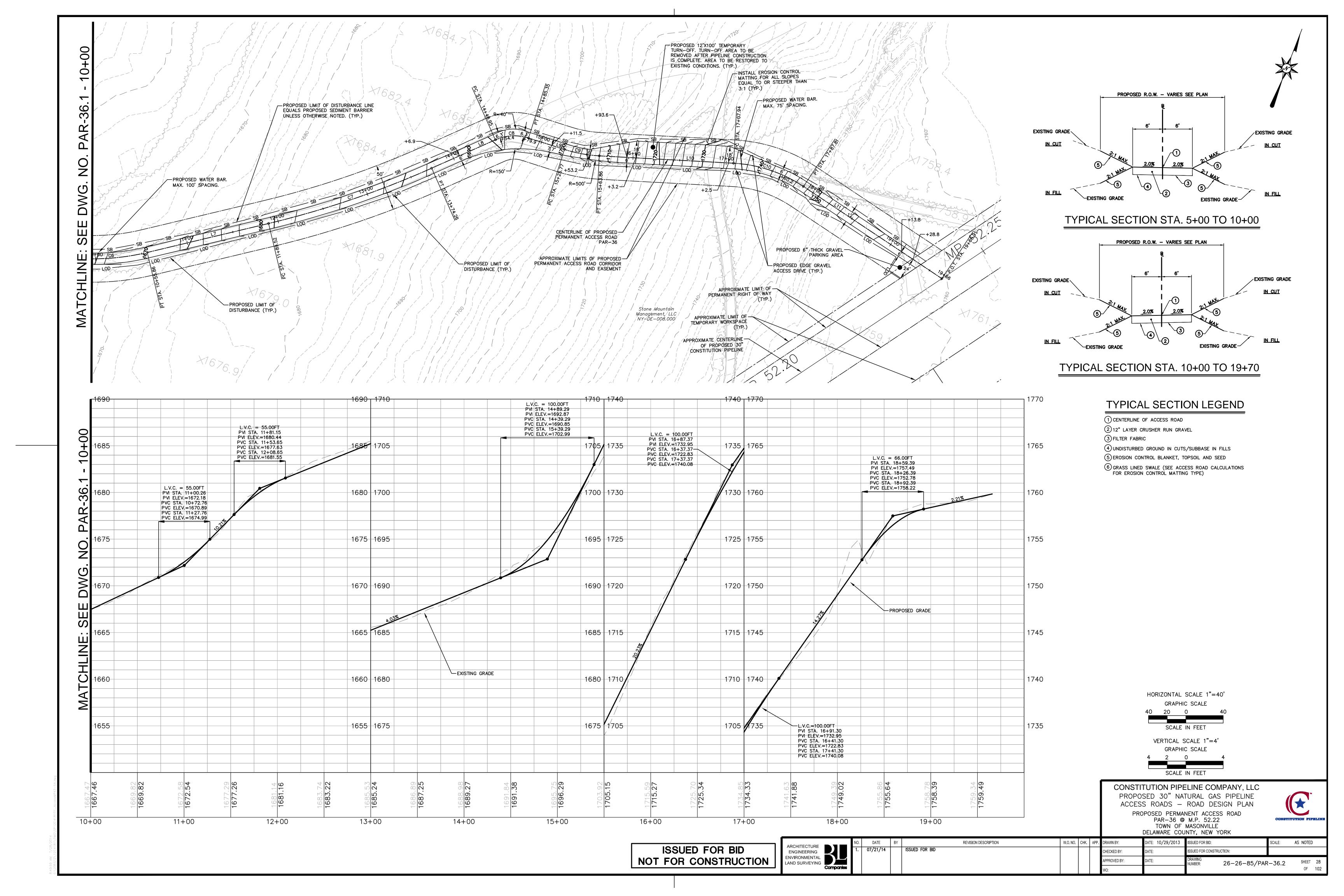
SCALE: AS NOTED

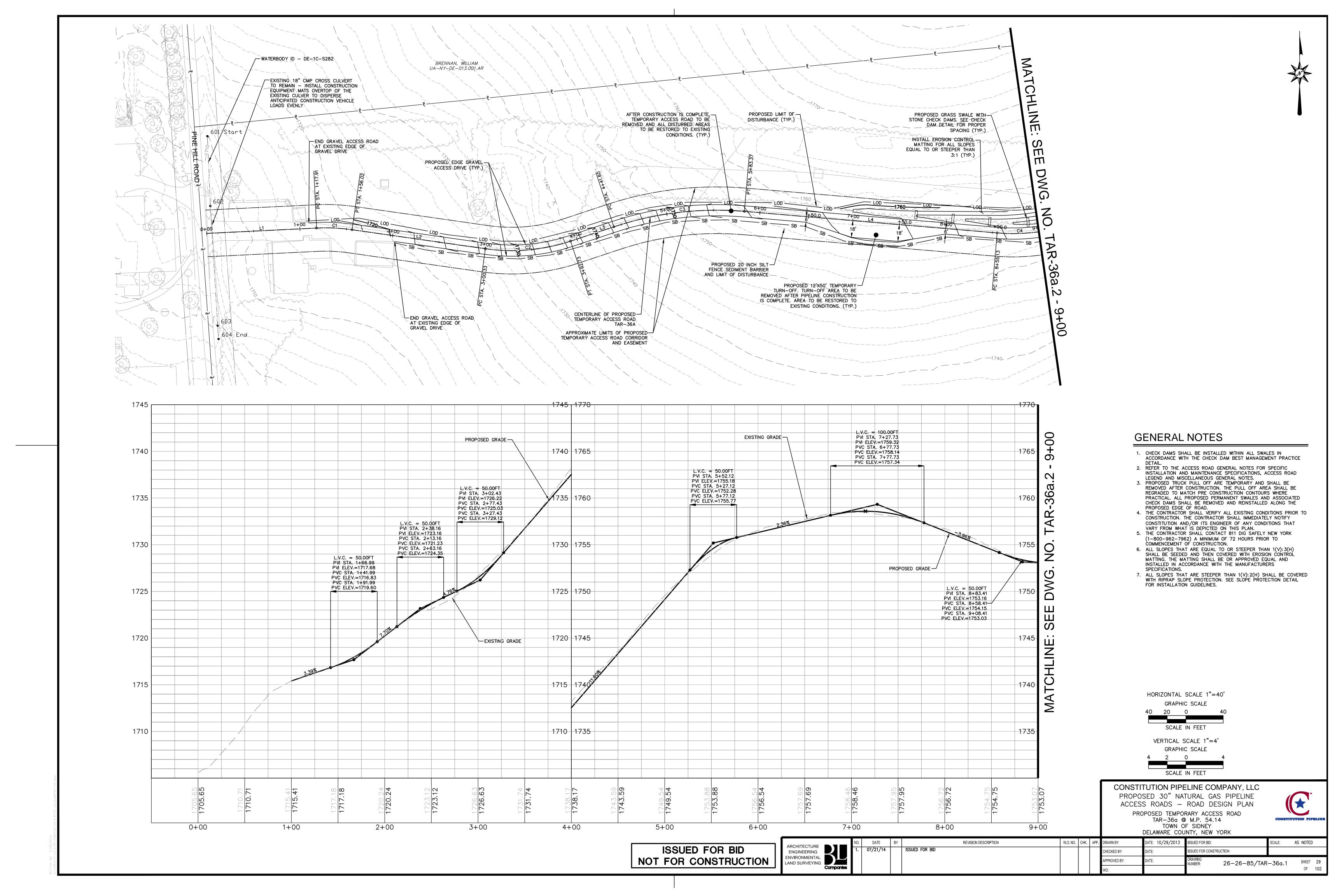
OCT. 1400

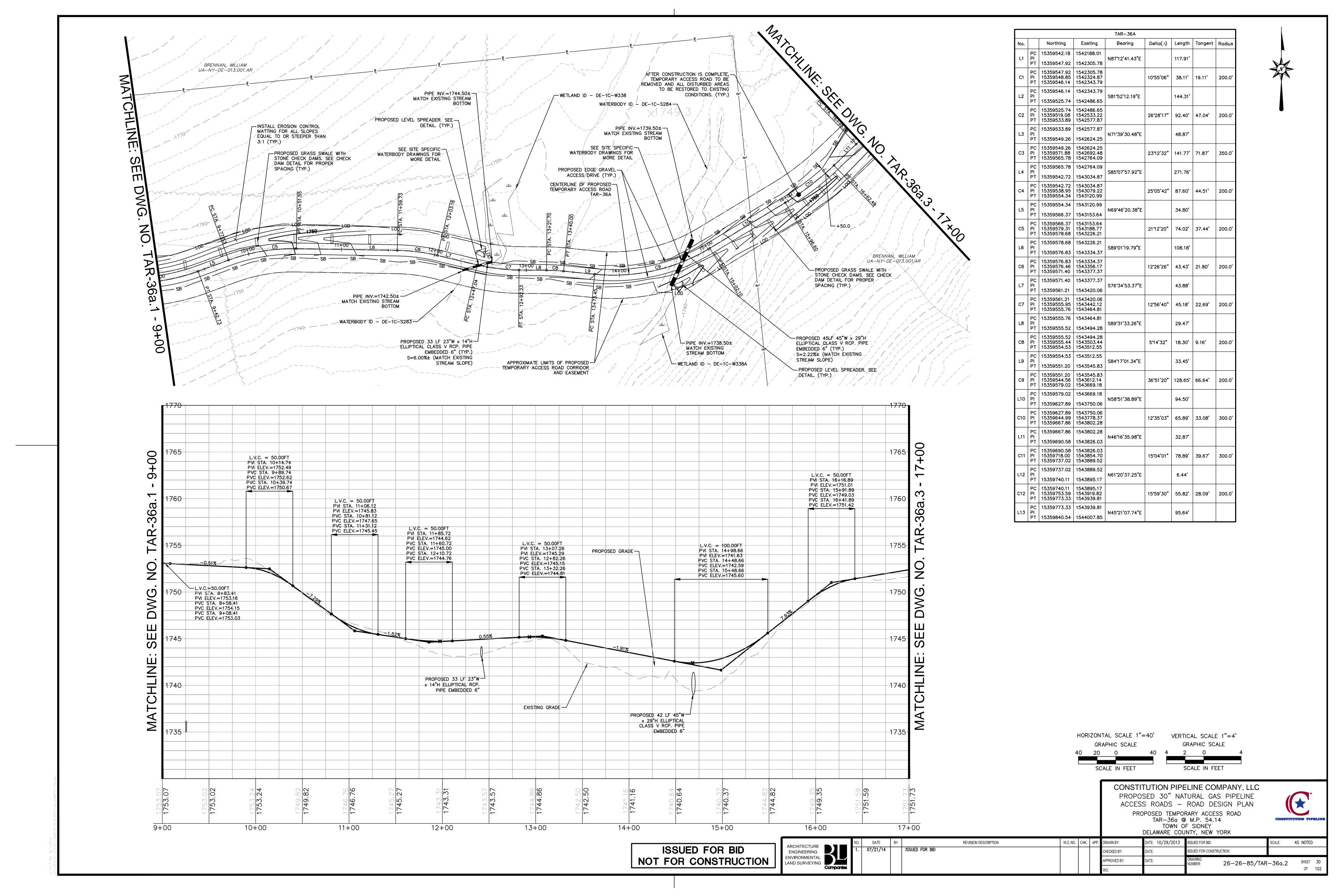


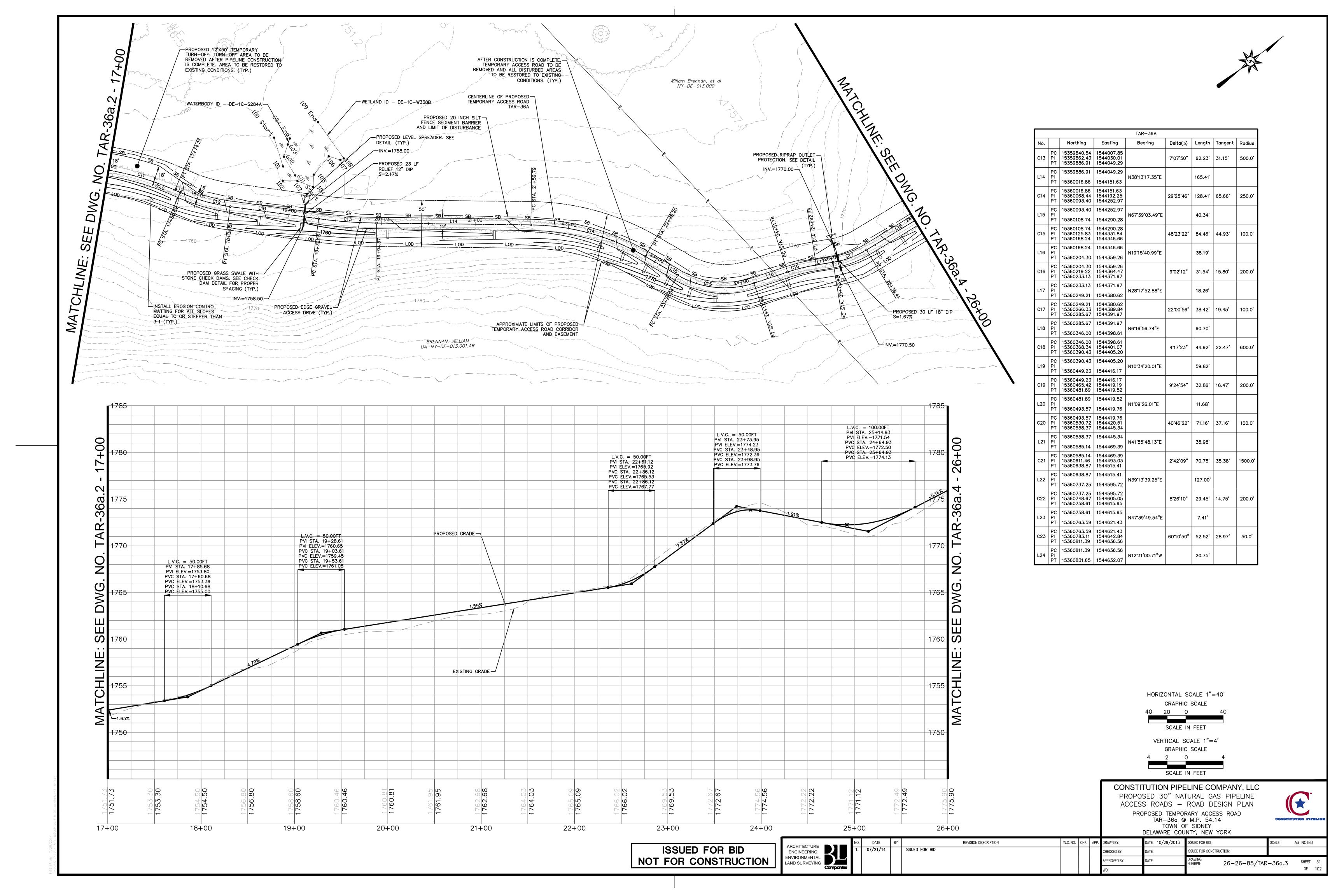


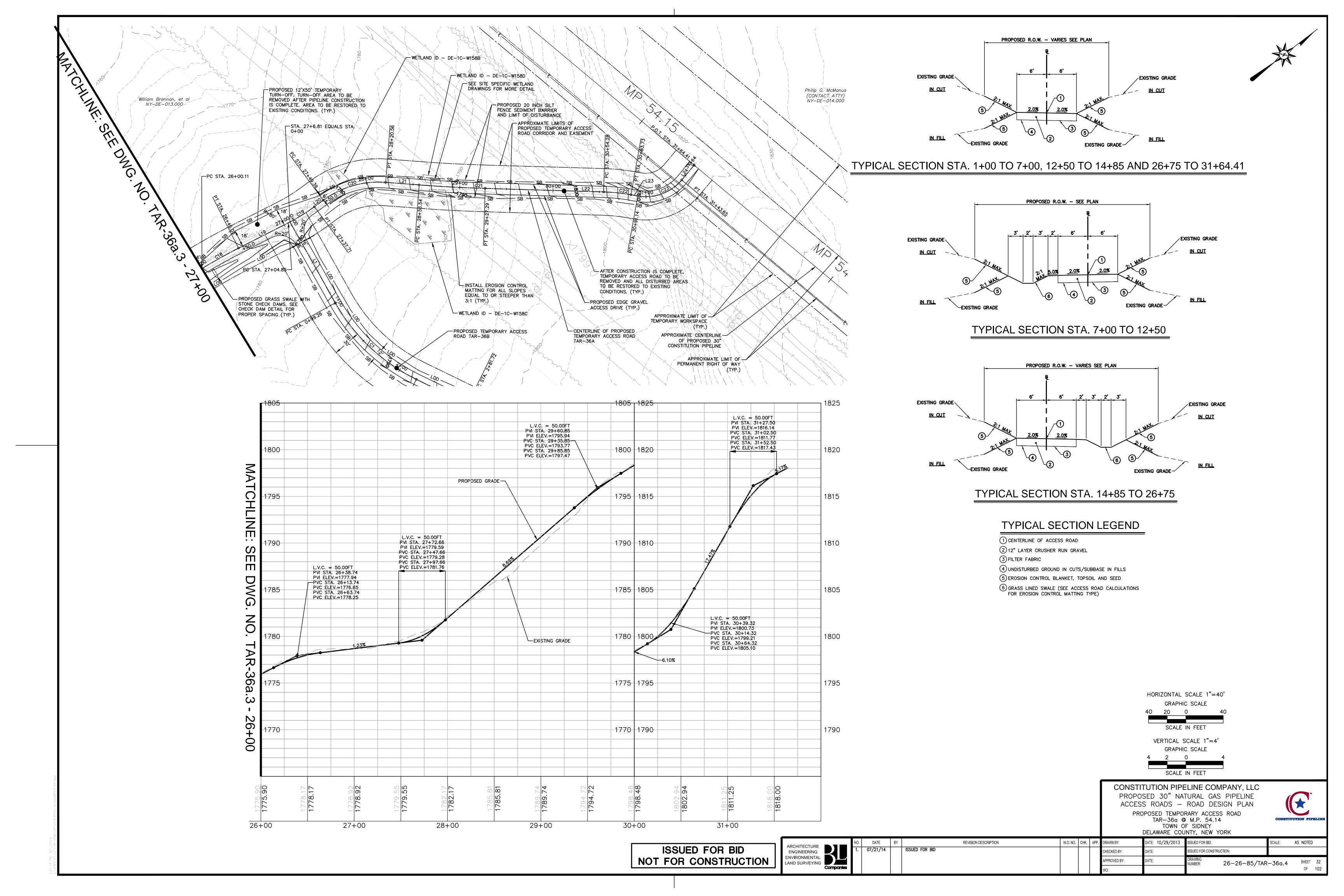


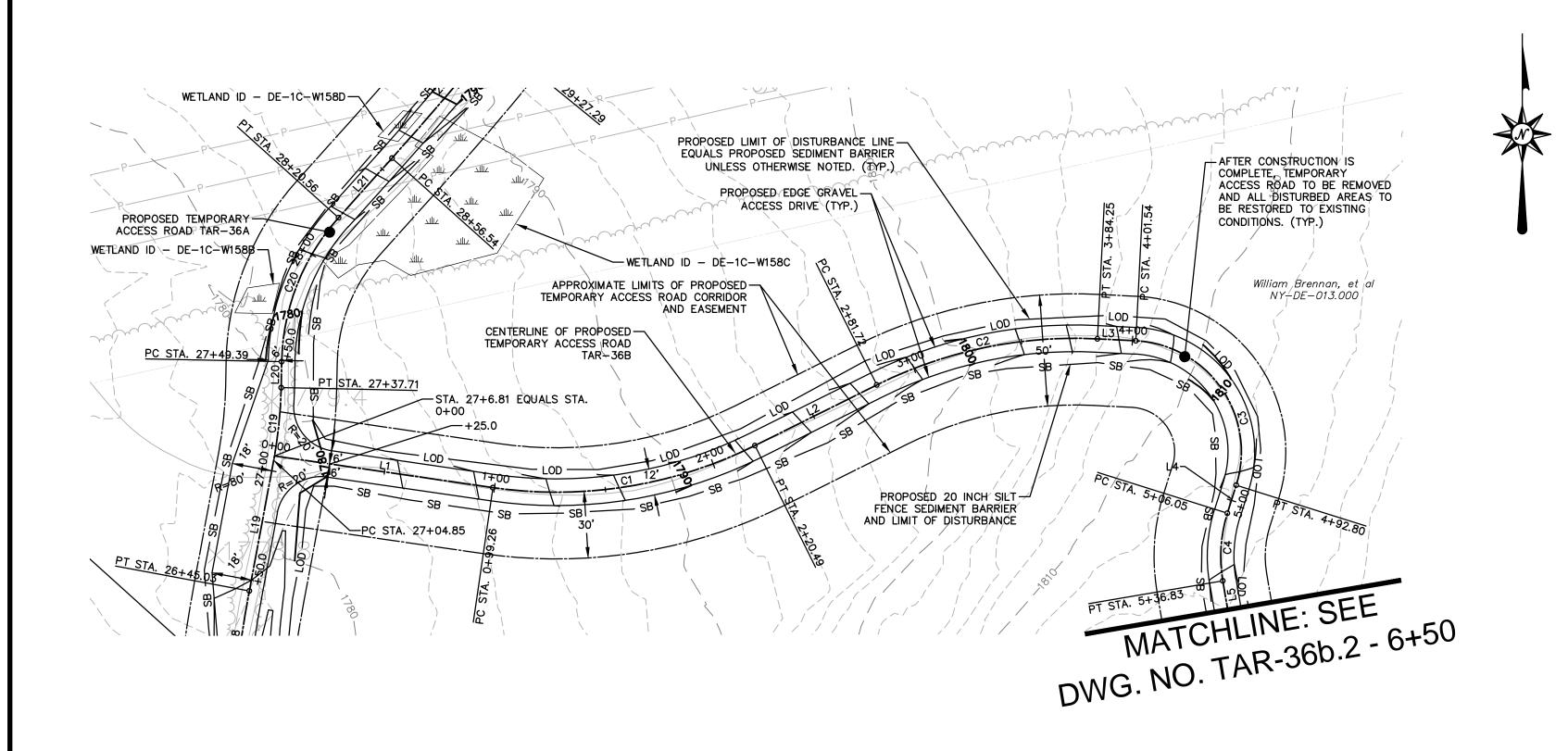


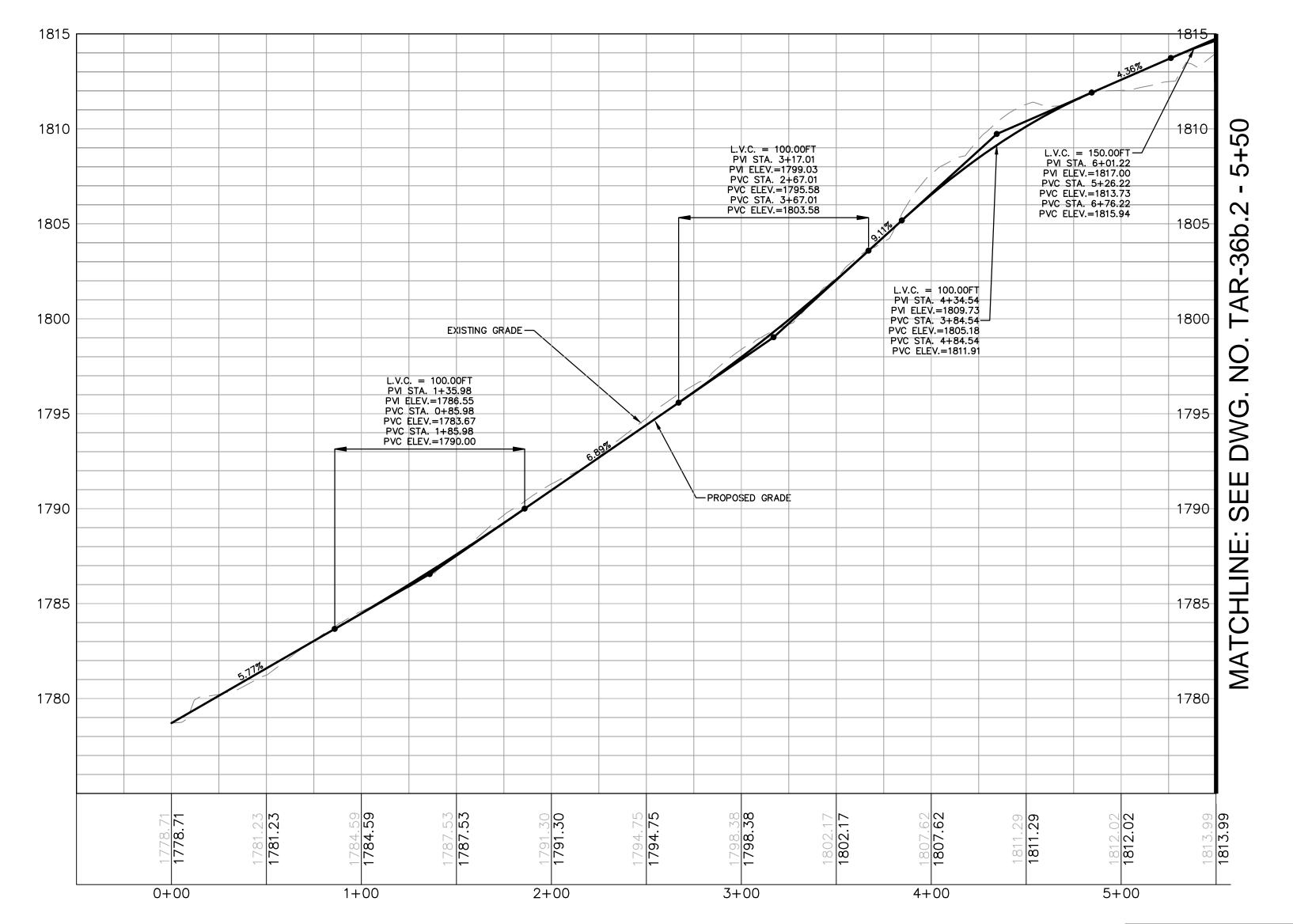


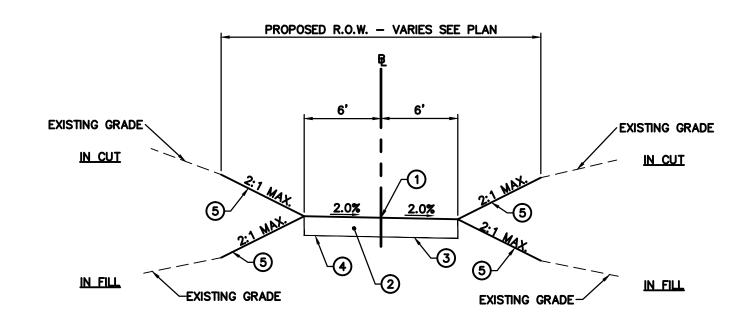




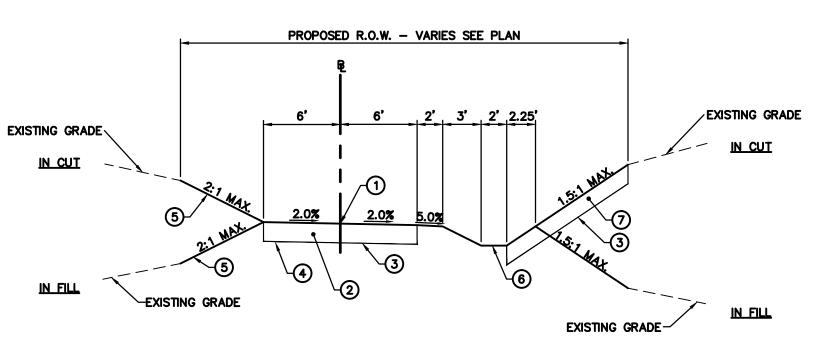




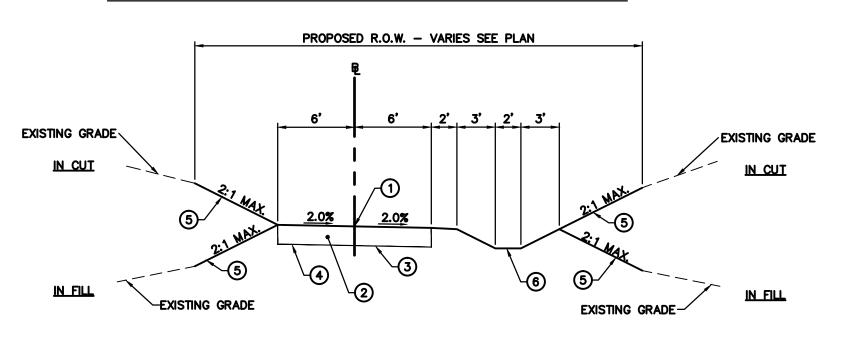




TYPICAL SECTION STA. 0+00 TO 12+50 AND 20+75 TO 29+76.19



TYPICAL SECTION STA. 12+50 TO 17+50



TYPICAL SECTION STA. 17+50 TO 20+75

TYPICAL SECTION LEGEND

- 1) CENTERLINE OF ACCESS ROAD
- 2 12" LAYER CRUSHER RUN GRAVEL
- 3 FILTER FABRIC
- (4) UNDISTURBED GROUND IN CUTS/SUBBASE IN FILLS
 (5) EROSION CONTROL BLANKET, TOPSOIL AND SEED
- 6 GRASS LINED SWALE (SEE ACCESS ROAD CALCULATIONS FOR EROSION CONTROL MATTING TYPE)
- 7) 12" LAYER MODIFIED RIPRAP

No.		Northing	Easting	Bearing	Delta(∆)	Length	Tangent	Radi
110.	PC	15360451.16	1544416.52	Dedring	Delta(\(\text{\Delta}\)	Longtii	rangent	Kaai
L1	PI PT	15360431.16	1544416.52	S81°44'44.78"E		99.26'		
	PC	15360436.91	1544514.75					
C1	PI PT	15360436.91 15360427.94 15360455.82	1544576.65 1544632.63		34*43'54"	121.24'	62.55'	200
L2	PC PI PT	15360455.82 15360483.12	1544632.63 1544687.44	N63'31'21.46"E		61.22'		
	PC	15360483.12	1544687.44					
C2	PI PT	15360483.12 15360506.49 15360503.84	1544734.35 1544786.70		29*22'19"	102.53	52.42'	200
	PC	15360503.84	1544786.70					
L3	PI PT	15360502.97	1544803.98	S87 ° 06'19.99"E		17.29'		
C3	PC PI PT	15360502.97 15360499.70 15360438.02	1544803.98 1544868.56 1544849.14		104'34'42"	91.26'	64.67'	50.0
	PC	15360438.02	1544849.14					
L4	PI PT	15360425.38	1544845.17	S17*28'21.89"W		13.25'		
C4	PC PI	15360425.38 15360410.42	1544845.17 1544840.46		27°08'06"	30.78'	15.69'	65.
	PT	15360394.96	1544843.09					
L5	PC PI PT	15360394.96 15360368.71	1544843.09 1544847.56	S9*39'44.16"E		26.63		
	-							
C5	PC PI PT	15360368.71 15360325.00 15360312.38	1544847.56 1544855.00 1544812.50		83°07'43"	72.54'	44.34'	50.
L6	PC	15360312.38	1544812.50	077107750 04714		0.4.40'		
LO	PI PT	15360305.41	1544789.02	S73°27'58.81"W		24.49'		
C6	PC PI PT	15360305.41 15360298.35 15360280.96	1544789.02 1544765.21 1544747.47		27°53'40"	48.69'	24.84'	100.
	РС	15360280.96	1544747.47					
L7	PI PT	15360258.78	1544724.84	S45°34'18.64"W		31.69'		
C7	PC PI PT	15360258.78 15360244.94 15360228.61	1544724.84 1544710.73 1544699.60		11°17'14"	39.40'	19.76'	200
	PC	15360228.61	1544699.60					
L8	PI PT	15360206.28	1544684.37	S34°17'04.78"W		27.03 '		
	PC	15360206.28	1544684.37					
C8	PI PT	15360186.92 15360163.72	1544671.17 1544667.95		26*22'09"	46.02'	23.43'	100
L9	PC PI	15360163.72	1544667.95	S7*54'55.30"W		45.50 '		
	PT	15360118.65	1544661.68	3, 0+ 00.00 W		10.00		
С9	PC PI PT	15360118.65 15360098.44 15360080.95	1544661.68 1544658.87 1544648.37		23°03'39"	40.25	20.40'	100
	PC	15360080.95	1544648.37					
L10	PI PT	15360020.63	1544612.16	S30°58'34.50"W		70.35		
C10	PC PI PT	15360020.63 15359976.00 15359935.29	1544612.16 1544585.37 1544617.81		69°31'51"	91.02'	52.06'	75.

GENERAL NOTES

- 1. CHECK DAMS SHALL BE INSTALLED WITHIN ALL SWALES IN ACCORDANCE WITH THE CHECK DAM BEST MANAGEMENT PRACTICE
- REFER TO THE ACCESS ROAD GENERAL NOTES FOR SPECIFIC INSTALLATION AND MAINTENANCE SPECIFICATIONS, ACCESS ROAD
- LEGEND AND MISCELLANEOUS GENERAL NOTES.

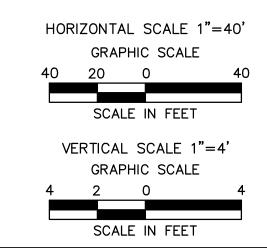
 3. PROPOSED TRUCK PULL OFF ARE TEMPORARY AND SHALL BE REMOVED AFTER CONSTRUCTION. THE PULL OFF AREA SHALL BE REGRADED TO MATCH PRE CONSTRUCTION CONTOURS WHERE PRACTICAL. ALL PROPOSED PERMANENT SWALES AND ASSOCIATED CHECK DAMS SHALL BE REMOVED AND REINSTALLED ALONG THE
- PROPOSED EDGE OF ROAD.

 4. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY CONSTITUTION AND/OR ITS ENGINEER OF ANY CONDITIONS THAT
- VARY FROM WHAT IS DEPICTED ON THIS PLAN.

 5. THE CONTRACTOR SHALL CONTACT 811 DIG SAFELY NEW YORK
 (1-800-962-7962) A MINIMUM OF 72 HOURS PRIOR TO
- COMMENCEMENT OF CONSTRUCTION.

 6. ALL SLOPES THAT ARE EQUAL TO OR STEEPER THAN 1(V): 3(H) SHALL BE SEEDED AND THEN COVERED WITH EROSION CONTROL MATTING. THE MATTING SHALL BE OR APPROVED EQUAL AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS
- SPECIFICATIONS.

 7. ALL SLOPES THAT ARE STEEPER THAN 1(V): 2(H) SHALL BE COVERED WITH RIPRAP SLOPE PROTECTION. SEE SLOPE PROTECTION DETAIL FOR INSTALLATION GUIDELINES.



CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
ACCESS ROADS — ROAD DESIGN PLAN
PROPOSED TEMPORARY ACCESS ROAD

ROPOSED TEMPORARY ACCESS RO TAR-36b @ M.P. 54.37 TOWN OF SIDNEY DELAWARE COUNTY, NEW YORK



ISSUED FOR BID
NOT FOR CONSTRUCTION



DATE BY REVISION DESCRIPTION

07/21/14 ISSUED FOR BID

W.O. NO. CHK. APP. DRAWN BY: DATE: 10/29/2013

CHECKED BY: DATE:

APPROVED BY: DATE:

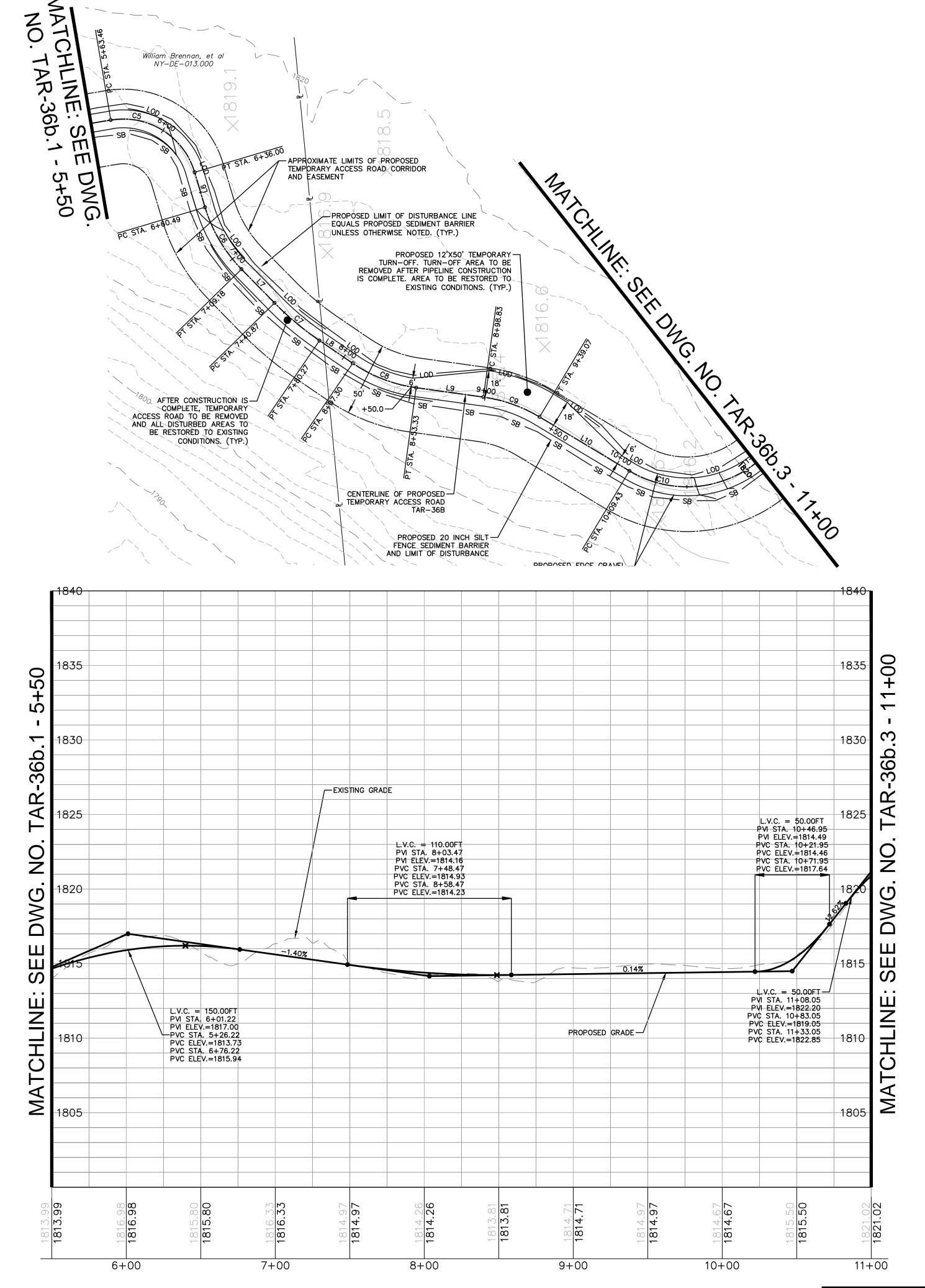
F SIDNEY
NTY, NEW YORK

ISSUED FOR BID: SCALE: AS NOTED

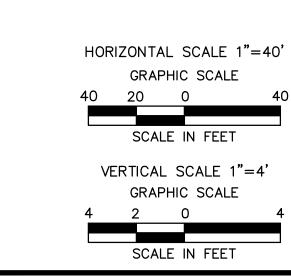
ISSUED FOR CONSTRUCTION:

26-26-85/TAR-36b.1





				TAR-36b				
No.		Northing	Easting	Bearing	Delta(△)	Length	Tangent	Radiu
L11	PC	15359935.29	1544617.81	C70*77'46 70"F		75 70'		
LII	PI PT	15359876.33	1544664.80	S38*33'16.38"E		75.39'		
C11	PC PI PT	15359876.33 15359819.81 15359881.90	1544664.80 1544709.85 1544746.85		110*39'02"	96.56'	72.28'	50.0
L12	PC PI PT	15359881.90 15359926.02	1544746.85 1544773.15	N30°47'41.75"E		51.36'		
C12	PC PI PT	15359926.02 15360034.69 15360099.48	1544773.15 1544837.91 1544946.56		28*23'47"	247.81	126.50'	500.0
L13	PC PI PT	15360099.48 15360237.80	1544946.56 1545178.51	N59"11'29.01"E		270.06		
C13	PC PI PT	15360237.80 15360264.88 15360281.87	1545178.51 1545223.94 1545274.02		12*04'31"	105.38'	52.88'	500.0
L14	PC PI PT	15360281.87 15360306.88	1545274.02 1545347.77	N71°16'00.28"E		77.87'		
C14	PC PI PT	15360306.88 15360319.53 15360354.23	1545347.77 1545385.08 1545403.73		43°00'28"	75.06'	39.40'	100.0
L15	PC PI PT	15360354.23 15360481.84	1545403.73 1545472.32	N2815'32.64"E		144.87'		
C15	PC PI PT	15360481.84 15360551.66 15360628.44	1545472.32 1545509.85 1545529.50		13°54'18"	157.75'	79.26'	650.0
L16	PC PI PT	15360628.44 15360644.37	1545529.50 1545533.58	N14°21'14.15"E		16.44'		
C16	PC PI PT	15360644.37 15360732.00 15360792.63	1545533.58 1545556.00 1545623.12		33°33'25"	175.70'	90.45'	300.0
L17	PC PI PT	15360792.63 15360814.88	1545623.12 1545647.76	N47°54'39.02"E		33.19'		
C17	PC PI PT	15360814.88 15360844.00 15360879.37	1545647.76 1545680.00 1545705.24		12°23′54″	86.56'	43.45'	400.0
L18	PC PI PT	15360879.37 15361048.26	1545705.24 1545825.77	N35°30'45.49"E		207.49		
C18	P P T	15361048.26 15361060.50 15361075.53	1545825.77 1545834.50 1545835.03		33 ° 28'33"	29.21'	15.04'	50.0
L19	PC PI PT	15361075.53 15361100.55	1545835.03 1545835.92	N2*02'12.82"E		25.04'		



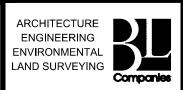
CONSTITUTION PIPELINE COMPANY, LLC PROPOSED 30" NATURAL GAS PIPELINE ACCESS ROADS - ROAD DESIGN PLAN

PROPOSED TEMPORARY ACCESS ROAD
TAR-36b @ M.P. 54.37
TOWN OF SIDNEY
DELAWARE COUNTY, NEW YORK

DATE: 10/29/2013

SCALE: AS NOTED SSUED FOR CONSTRUCTION: 26-26-85/TAR-36b.2

ISSUED FOR BID NOT FOR CONSTRUCTION



ISSUED FOR BID

REVISION DESCRIPTION

W.O. NO. CHK. APP. DRAWN BY: ISSUED FOR BID: CHECKED BY: APPROVED BY: