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GENERAL NOTES:

- EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE GENERAL AND ILLUSTRATIVE IN NATURE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BEGINNING CONSTRUCTION. IF CONDITIONS ENCOUNTERED DURING EXAMINATION ARE SIGNIFICANTLY DIFFERENT THAN THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COMPLYING WITH APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.
- THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER, OWNER'S REPRESENTATIVE, AND ENGINEER FOR ANY AND ALL INJURIES AND/OR DAMAGES TO PERSONNEL, EQUIPMENT, AND/OR EXISTING FACILITIES OCCURRING IN THE COURSE OF DEMOLITION AND CONSTRUCTION DESCRIBED IN THE PLANS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES, OBTAIN ALL APPLICABLE PERMITS, AND PAY ALL REQUIRED FEES PRIOR TO BEGINNING WORK.
- ALL WORK PERFORMED BY THE CONTRACTOR SHALL CONFORM TO THE LATEST REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT.
- CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THIS SET OF DOCUMENTS FULLY DEPICT ALL WORK ASSOCIATED WITH THIS PROJECT.
- BEFORE INSTALLATION OF UTILITIES, THE CONTRACTOR SHALL VERIFY ALL CROSSINGS, BY EXCAVATION WHERE NECESSARY, AND INFORM THE OWNER AND THE ENGINEER OF ANY CONFLICTS. THE ENGINEER WILL BE HELD HARMLESS IN THE EVENT HE/SHE IS NOT NOTIFIED OF DESIGN CONFLICTS PRIOR TO CONSTRUCTION.
- ALL EXISTING ABOVE AND BELOW GROUND STRUCTURES INDICATED FOR REMOVAL SHALL BE REMOVED UNLESS NOTED OTHERWISE WITHIN THIS CONSTRUCTION SET AND/OR PROJECT SPECIFICATIONS. STRUCTURES INCLUDE FOUNDATION SLABS, WALLS AND FOOTINGS. CAVITIES LEFT BY STRUCTURE REMOVAL SHALL BE BACKFILLED WITH SATISFACTORY MATERIALS AND COMPACTED TO 100% OF MAXIMUM DRY DENSITY WITHIN +/-3% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY STANDARD PROCTOR TESTING (ASTM D 698).
- CLEARING LIMITS SHALL BE PHYSICALLY MARKED IN THE FIELD.
- ALL DEMOLITION WASTE AND CONSTRUCTION DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED AND SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF OFFSITE IN AN APPROVED WASTE SITE AND IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR DAMAGE ACCORDING TO THE APPROPRIATE UTILITY COMPANY STANDARDS AND AT THE CONTRACTOR'S EXPENSE.
- ALL UTILITY DISCONNECTION, REMOVAL, RELOCATION, CUTTING, CAPPING AND/OR ABANDONMENT SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY/AGENCY. UTILITY CONTACTS MAY BE IDENTIFIED AS PER THE ONE CALL PROGRAM.
- THE BURNING OF MATERIAL AND DEBRIS SHALL NOT BE ALLOWED UNLESS CONTRACTOR OBTAINS PRIOR WRITTEN AUTHORIZATION.
- EROSION AND SEDIMENTATION CONTROL MEASURES AROUND AREAS OF DEMOLITION SHALL BE PROPERLY INSTALLED AND SHALL FUNCTION PROPERLY PRIOR TO INITIATION OF DEMOLITION ACTIVITIES.
- ASBESTOS OR HAZARDOUS MATERIALS ARE NOT EXPECTED. IF FOUND ON SITE, SUCH MATERIALS SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIALS CONTRACTOR. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY IF HAZARDOUS MATERIALS ARE ENCOUNTERED.
- CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE, FEDERAL AND OSHA REGULATIONS DURING ALL DEMOLITION ACTIVITIES.
- CONTRACTOR SHALL PROTECT ALL CORNER PINS, MONUMENTS, PROPERTY CORNERS, AND BENCHMARKS DURING DEMOLITION ACTIVITIES. IF DISTURBED, CONTRACTOR SHALL HAVE DISTURBED ITEMS RESET BY A LICENSED SURVEYOR AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES, STRUCTURES AND FEATURES TO REMAIN. ANY ITEMS TO REMAIN THAT HAVE BEEN DISTURBED OR DAMAGED AS A RESULT OF CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC CONTROL MEASURES IN ACCORDANCE WITH THE PREVAILING REGULATIONS WHEN WORKING IN AND/OR ALONG STREETS, ROADS, HIGHWAYS, ETC. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN APPROVAL AND COORDINATE WITH LOCAL AND/OR STATE AGENCIES REGARDING THE NEED, EXTENT, AND LIMITATIONS ASSOCIATED WITH INSTALLING AND MAINTAINING TRAFFIC CONTROL MEASURES.
- ALL UTILITY AND STRUCTURE REMOVAL, RELOCATION, CUTTING, CAPPING AND/OR ABANDONMENT SHALL BE COORDINATED AND PROPERLY DOCUMENTED BY A CERTIFIED PROFESSIONAL WHEN APPLICABLE, WITH THE APPROPRIATE UTILITY COMPANY, MUNICIPALITY AND/OR AGENCY. DEMOLITION OF REGULATORY ITEMS MAY INCLUDE, BUT ARE NOT LIMITED TO, WELLS, ASBESTOS UNDER GROUND STORAGE TANKS, SEPTIC TANKS AND ELECTRIC TRANSFORMERS. DEMOLITION CONTRACTOR SHALL REFER TO ANY ENVIRONMENTAL STUDIES FOR DEMOLITION RECOMMENDATIONS AND GUIDANCE AVAILABLE FOR CONSTRUCTION AND/OR DEMOLITION. DEMOLITION SHALL BE IN PHASE I, E.S.A. PHASE II, WETLAND AND STREAM DELINEATION AND ASBESTOS SURVEY. ALL APPLICABLE ENVIRONMENTAL STUDIES SHALL BE MADE AVAILABLE UPON REQUEST.
- NO TREES SHALL BE REMOVED UNLESS SPECIFICALLY INDICATED BY THE LIMITS OF CONSTRUCTION WITHOUT THE APPROVAL OF THE OWNER AND WRITTEN APPROVAL FROM BUCKINGHAM TOWNSHIP.
- THE CONTRACTOR SHALL USE SUITABLE METHODS TO CONTROL DUST AND DIRT CAUSED BY THE DEMOLITION ACTIVITY.
- THE CONTRACTOR SHALL CHECK EXISTING GRADES, DIMENSIONS, AND INVERTS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO BEGINNING WORK.
- THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES, INCLUDING IRRIGATION LINES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. RELOCATION EXISTING UTILITIES AS INDICATED, OR AS NECESSARY FOR CONSTRUCTION.
- PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT AND NEW PAVEMENT. FIELD ADJUSTMENT OF FINAL GRADES MAY BE NECESSARY. INSTALL ALL UTILITIES, INCLUDING IRRIGATION SLEEPING, PRIOR TO INSTALLATION OF PAVED SURFACES.
- SITE WORK CONCRETE WALKS SHALL HAVE A BROOM FINISH TO ALL SURFACES. SITE WORK CONCRETE SHALL BE CLASS "A" UNLESS OTHERWISE NOTED.
- ALL DAMAGE TO EXISTING PAVEMENT TO REMAIN WHICH RESULTS FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED WITH MATERIALS AT THE CONTRACTOR'S EXPENSE.
- SITE DIMENSIONS SHOWN ARE TO THE EDGE OF CURB, OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- THE SITE LAYOUT IS SPECIFIC TO THE APPROVALS NECESSARY FOR CONSTRUCTION IN ACCORDANCE WITH THE APPLICABLE REGULATIONS. NO CHANGES TO THE SITE LAYOUT ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
- SITE IS NOT IDENTIFIED AS A PROTECTED PROPERTY FOR PRESERVATION AREAS BY THE BUCKINGHAM TOWNSHIP OPEN SPACE PLAN. SITE IS ALSO NOT LOCATED IN A HISTORIC DISTRICT, SCENIC AREA, NOR IS IT LOCATED ALONG A SCENIC ROAD PER THE BUCKINGHAM TOWNSHIP OPEN SPACE PLAN.
- THIS SITE IS NOT LISTED IN THE COMPREHENSIVE HISTORIC SITES SURVEY OF BUCKINGHAM, PREPARED BY THE BUCKS COUNTY CONSERVANCY STUDY, DATED SEPTEMBER 11, 1991. THE SURVEY LISTS PROPERTIES POTENTIALLY ELIGIBLE FOR THE NATIONAL REGISTER, SITES WORTHY OF FUTURE STUDY, AND SITES ON THE NATIONAL AND COUNTY REGISTERS.
- THIS SITE LIES OUTSIDE LIMESTONE AREA AS DEFINED IN "CONSERVATION AND MANAGEMENT PRACTICES FOR BUCKINGHAM AND DURHAM CARBONATE VALLEYS".
- THIS PLAN IS NOT VALID UNLESS EMBOSSED WITH THE SEAL OF THE UNDERSIGNED PROFESSIONAL(S).
- IT IS IMPERATIVE THAT UTILITY COMPANIES ARE NOTIFIED 3 WORKING DAYS PRIOR TO ANY EXCAVATION AND/OR CONSTRUCTION. CALL (800) 242-1776 TO ORDER UTILITY MARKOUTS.
- THE CONTRACTOR, DURING THE PERFORMANCE OF ALL WORK ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT, IS RESPONSIBLE FOR COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS, CODES AND REGULATIONS.
- ANY DISCREPANCIES FOUND BETWEEN THE DRAWINGS AND SITE CONDITIONS OR ANY INCONSISTENCIES OR AMBIGUITIES IN DRAWINGS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER, IN WRITING, WHO SHALL PROMPTLY ADDRESS SUCH INCONSISTENCIES OR AMBIGUITIES. WORK DONE BY THE CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCIES, INCONSISTENCIES OR AMBIGUITIES SHALL BE DONE AT THE CONTRACTOR'S RISK.
- ALL UTILITIES SHALL BE PLACED UNDERGROUND.
- THE AREA BETWEEN THE LEGAL RIGHT-OF-WAY AND ULTIMATE RIGHT OF WAY ALONG BURNT HOUSE HILL ROAD IS OFFERED FOR DEDICATION TO BUCKINGHAM TOWNSHIP.
- OFFER OF DEDICATION TO THE ULTIMATE/DEDICATED RIGHT-OF-WAY OF BURNT HOUSE HILL ROAD SHALL RUN IN PERPETUITY IN FAVOR OF BUCKINGHAM TOWNSHIP.
- THE EXISTING VEGETATION WITHIN THE REQUIRED BUFFER AREAS PROPOSED TO SATISFY RELATED REQUIREMENTS SHALL NOT BE REMOVED NOR DISTURBED IN ANY MANNER OTHER THAN SHOWN ON THE LANDSCAPE PLAN.
- THESE PLANS WERE DESIGNED IN ACCORDANCE WITH THE BUCKINGHAM TOWNSHIP ZONING ORDINANCE INCORPORATING AMENDMENTS ENACTED TO JANUARY 24, 2018 AND THE SUBDIVISION AND LAND DEVELOPMENT ORDINANCE ENACTED DECEMBER 29, 2003, INCORPORATING AMENDMENTS ENACTED TO OCTOBER 14, 2009.
- PROPOSED MONUMENTS/PINS SHALL BE INSTALLED PRIOR TO ISSUANCE OF A BUILDING PERMIT.
- THE OWNER/APPLICANT HEREBY GRANTS BUCKINGHAM TOWNSHIP A BLANKET ACCESS EASEMENT FOR THE EXPRESSED RIGHT OF ENTRY UPON THE AREA OF STORMWATER MANAGEMENT FACILITIES SHOWN HEREIN TO UNDERTAKE ANY REQUIRED CORRECTIVE OR MAINTENANCE EFFORTS. THE TOTAL COST OF SUCH, INCLUDING ADMINISTRATIVE, ENGINEERING, AND LEGAL COSTS FOR ENFORCEMENT, MAY BE IMPOSED UPON THE OWNER AS DETERMINED BY BUCKINGHAM TOWNSHIP.
- ALL WATER SERVICE CONSTRUCTION SHALL BE IN CONFORMANCE WITH BUCKINGHAM TOWNSHIP STANDARD SPECIFICATIONS AND DETAILS FOR WATER FACILITIES.
- ALL SANITARY SEWER CONSTRUCTION SHALL BE IN CONFORMANCE WITH BUCKS COUNTY WATER AND SEWER AUTHORITY STANDARD SPECIFICATIONS AND DETAILS FOR SANITARY SEWER FACILITIES. REFUSE COLLECTION/DISPOSAL WILL BE PROVIDED ON SITE.
- THE POST CONSTRUCTION STORMWATER MANAGEMENT FACILITIES (AS SHOWN ON THIS PLAN) ARE A BASIC AND PERPETUAL PART OF THE STORM DRAINAGE SYSTEM OF THE TOWNSHIP OF BUCKINGHAM, AND AS SUCH ARE TO BE PROTECTED AND PRESERVED, IN ACCORDANCE WITH THE APPROVED FINAL PLAN BY THE OWNER(S) ON THOSE LANDS THE STRUCTURE(S) IS/ARE LOCATED. THE TOWNSHIP OF BUCKINGHAM AND/OR ITS AGENTS RESERVE THE RIGHT AND PRIVILEGES TO ENTER UPON SUCH LANDS FROM TIME TO TIME FOR THE PURPOSE OF INSPECTION OF SAID FACILITIES IN ORDER TO CHECK THAT THE STRUCTURAL AND DESIGN INTEGRITY ARE BEING MAINTAINED BY THE OWNER(S).
- ALL DEVELOPMENT ACTIVITIES, SUCH AS CLEARING, GRADING, REGRADING, DRIVEWAYS, ROADS, BUILDINGS, SEPTIC SYSTEMS, RETENTION/DETENTION BASINS, AND UTILITY EASEMENTS SHALL BE LIMITED TO THE NATURAL RESOURCE PROTECTION STANDARDS AS SPECIFIED IN THE BUCKINGHAM TOWNSHIP ZONING ORDINANCE. THE REMAINING NATURAL RESOURCES SHALL REMAIN IN THEIR NATURAL CONDITION INCLUDING THE NATURAL FOREST GROUND COVER WITH EXCEPTION OF THE REMOVAL OF INVASIVE EXOTIC SPECIES SUCH AS JAPANESE HONEYSUCKLE AND BITTERSWEET OR POISON IVY AND OTHER NOXIOUS WEEDS NOT MENTIONED. THIS RESTRICTION SHALL RUN WITH THE LAND AND BE BINDING ON THE PRESENT AND ALL FUTURE OWNERS AND/OR LESSEES.
- NO TOPSOIL SHALL BE REMOVED FROM THE PROJECT SITE.
- ANY SOILS TO BE REMOVED FROM THE PROJECT SITE SHALL BE DISPOSED OF IN ACCORDANCE WITH PADEP REGULATIONS.
- NO PLANTINGS, STRUCTURES OR FENCES SHALL BE LOCATED WITHIN THE WATER MAIN EASEMENTS OR WITHIN 10 FEET OF THE PROPOSED WATER MAINS OR SERVICES.
51. PRIOR TO ISSUANCE OF A PERMANENT CERTIFICATION OF OCCUPANCY, ALL IMPROVEMENTS REQUIRED SUCH AS ROAD FRONTAGE IMPROVEMENTS, STORMWATER MANAGEMENT FACILITY CONSTRUCTION, PARKING (BASE COURSE WITH TEMPORARY STRIPING IS ADEQUATE) SHALL BE

GENERAL NOTES (CONTINUED):

- INSTALLED TO THE TOWNSHIP'S SATISFACTION.
- THE BUILDING FOOTPRINT DEPICTED HEREIN HAS BEEN TRANSPOSED FROM ARCHITECTURAL PLANS PREPARED BY OTHERS. FINAL BUILDING DIMENSIONS MAY VARY BUT SHALL ULTIMATELY CONFORM TO ALL ZONING SETBACKS, IMPERVIOUS SURFACE RATIOS, ETC.
- THE BURYING OF TREES AND CONSTRUCTION DEBRIS IS PROHIBITED PURSUANT TO BUCKINGHAM TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE, SEC. 9-22E.
- WHEN CHANGES FROM THE ACCEPTED DRAWINGS AND SPECIFICATIONS BECOME NECESSARY DURING CONSTRUCTION, A QUALIFIED PROFESSIONAL ENGINEER SHALL PREPARE AND SUBMIT PLANS DETAILING ALL SUCH CHANGES TO THE TOWNSHIP ENGINEER FOR REVIEW AND APPROVAL. WRITTEN ACCEPTANCE BY THE TOWNSHIP ENGINEER SHALL BE SECURED BEFORE THE EXECUTION OF SUCH CHANGES.
- ALL IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS AS PROVIDED ON THESE PLANS AND OTHER SPECIFICATIONS OF THE TOWNSHIP OF BUCKINGHAM, DELAWARE RIVER BASIN COMMISSION, BUCKS COUNTY WATER AND SEWER AUTHORITY, OR THE AUTHORITY HAVING JURISDICTION OVER SAID IMPROVEMENTS, WHICHEVER ARE MORE RESTRICTIVE.
- ANY CHANGE IN THE ELEVATION OF ANY STRUCTURE FROM THAT SHOWN ON THE PLANS OF MORE THAN 6-INCHES SHALL REQUIRE THE APPROVAL OF THE TOWNSHIP ENGINEER PRIOR TO THE ISSUANCE OF A BUILDING PERMIT. SUCH APPROVAL MAY NECESSITATE CERTAIN GRADING CHANGES TO ACCOMMODATE THE CHANGE IN ELEVATION.
- UPON THE INSTALLATION AND OPERATION OF ALL PROPOSED LIGHT FACILITIES, THE TOWNSHIP RESERVES THE RIGHT TO MEASURE THE LIGHT LEVELS TO DETERMINE IF AREAS OF HIGH BRIGHTNESS EXIST. IF THE INSTALLED LIGHTING FACILITIES VIOLATE THE REQUIREMENTS LISTED IN THE TOWNSHIP ZONING ORDINANCE, IT SHALL BE THE DEVELOPER'S RESPONSIBILITY TO REMEDIATE THE INSTALLED LIGHTING FACILITIES IMMEDIATELY, TO SATISFY ALL TOWNSHIP ZONING ORDINANCE REQUIREMENTS.
- THE BUILDING SHALL BE PROVIDED WITH ADA ACCESS IN ACCORDANCE WITH PREVAILING ADA REQUIREMENTS.
- NOTHING SHALL BE PERMITTED TO BE PLACED, PLANTED, SET OR PUT WITHIN THE AREA OF A UTILITY EASEMENT EXCEPT LAWS, LOW GROUND COVER, OR OTHER LANDSCAPING THAT WILL NOT ADVERSELY AFFECT THE UTILITY OF THE EASEMENT.
- NO INDUSTRIAL WASTE OR BYPRODUCT SHALL BE PERMITTED TO BE DISCHARGED INTO THE STORMWATER OR WASTE WATER SYSTEMS OR OTHER WATER COURSE AT A LEVEL THAT EXCEEDS THE STANDARDS OF THE CLEAN WATER ACT AND/OR ASSOCIATED REGULATIONS IN EFFECT AT THE TIME OF APPLICATION.
- NO INDUSTRIAL WASTE, OR BYPRODUCT SHALL BE DISCHARGED INTO THE AIR AT A LEVEL THAT EXCEEDS THE STANDARDS OF THE CLEAN AIR ACT AND/OR ASSOCIATED REGULATIONS IN EFFECT AT THE TIME OF APPLICATION.
- PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE TO ENSURE ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATIONS SHALL BEGUN UNTIL THE CONTRACTOR HAS RECEIVED AND REVIEWED THE PLANS AND OTHER DOCUMENTS APPROVED BY THE PERMITTING AUTHORITIES. THE CONTRACTOR MUST MAINTAIN COPIES OF ALL PERMITS AND APPROVALS ON SITE AT ALL TIMES.
- THE OWNER AND CONTRACTOR SHALL BE FAMILIAR WITH AND RESPONSIBLE FOR THE PROCUREMENT OF ANY AND ALL CERTIFICATIONS REQUIRED FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY FOR THE BUILDING(S) ON SITE.
- DIMENSIONS SHOWN ON THE PLANS MUST BE VERIFIED BY THE CONTRACTOR IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IF ANY CONFLICTS, DISCREPANCIES, OR AMBIGUITIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION. NO COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR ADDITIONAL WORK WHICH HAS TO BE DONE TO CORRECT OR REPAIR DEFICIENCIES OR GRADING SHOWN INCORRECTLY ON THESE PLANS PRIOR TO CONTRACTOR GIVING ENGINEERING WRITTEN NOTIFICATION OF SAME AND ENGINEER, THEREAFTER, PROVIDING CONTRACTOR WITH WRITTEN AUTHORIZATION TO PROCEED WITH SUCH ADDITIONAL WORK.
- PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR MUST COORDINATE THE BUILDING LAYOUT BY REVIEWING THE LATEST CIVIL DESIGN PLANS, ALONG WITH THE LATEST ARCHITECTURAL AND OTHER RELEVANT BUILDING DESIGN PLANS, PREPARED BY OTHERS. CONTRACTOR MUST IMMEDIATELY NOTIFY ENGINEER, OWNER, AND ARCHITECT IN WRITING, OR ANY CONFLICT, DISCREPANCIES OR AMBIGUITIES.
- CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, AS AMENDED AND ANY MODIFICATIONS, AMENDMENTS OR REVISIONS TO SAME.
- VAN CLEEF ENGINEERING ASSOCIATES, LLC, HAS NO LEGAL, CONTRACTUAL, OR OTHER RESPONSIBILITY FOR JOB SITE SAFETY OR JOB SITE SUPERVISION.
- PROJECT DEMOLITION IS INTENDED TO PROVIDE GENERAL INFORMATION ONLY REGARDING THE ITEMS TO BE DEMOLISHED AND/OR REMOVED AT THE PROJECT SITE. THE CONTRACTOR SHALL REVIEW THE OTHER SITE PLAN DRAWINGS AND INCLUDE IN DEMOLITION AND REMOVAL ACTIVITIES ALL INCIDENTAL WORK NECESSARY FOR THE CONSTRUCTION OF THE SITE IMPROVEMENTS.
- CONTRACTOR SHALL PROVIDE QUESTIONS IN VAN CLEEF ENGINEERING ASSOCIATES, LLC, CONCERNING THE ACCURACY OR INTENT OF THESE PLANS/SPECIFICATIONS, CONCERNS REGARDING THE APPLICABLE SAFETY STANDARDS, OR THE SAFETY OF THE CONTRACTOR OR RELEVANT THIRD PARTIES, PRIOR TO THE INITIATION OF ANY SITE ACTIVITY AND ANY DEMOLITION ACTIVITY. ALL DEMOLITION ACTIVITY MUST BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS, AS WELL AS ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
- CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AND GENERALLY ACCEPTED SAFE PRACTICES IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL, AS WELL AS FEDERAL, STATE, AND LOCAL REGULATIONS WHEN SITE WORK ACTIVITIES IMPACT EXISTING ROADWAYS.
- THE CONTRACTOR SHALL CONDUCT DEMOLITION ACTIVITIES IN SUCH A MANNER TO INSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, SIDEWALKS, AND WALKWAYS. STREET CLOSURE PERMITS MUST BE RECEIVED FROM THE APPLICABLE AGENCY WHEN REQUIRED.
- THE CONTRACTOR IS RESPONSIBLE TO SAFEGUARD THE SITE AS NECESSARY TO PREVENT THE UNAUTHORIZED ENTRY OF THIRD PARTIES.
- THE EXISTING FEATURES AND DEMOLITION PLAN IS INTENDED TO IDENTIFY EXISTING ITEMS AND CONDITIONS WHICH ARE TO BE REMOVED. IT IS NOT INTENDED TO PROVIDE DIRECTION OTHER THAN ALL MEANS AND METHODS ARE TO BE IN ACCORDANCE WITH FEDERAL, STATE, OR LOCAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OSHA AND OTHER SAFETY PRECAUTIONS NECESSARY TO PROVIDE A SAFE WORKING ENVIRONMENT ON SITE.
- THE DEMOLITION CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS AND DAMAGE TO ALL ITEMS THAT ARE TO REMAIN. ALL REPAIRS SHALL USE NEW MATERIAL, AND THE REPAIRS SHALL RESTORE THE DAMAGED ITEM(S) TO PRE-DEMOLITION CONDITIONS.
- EXISTING WELLS, WATER SERVICE APPURTENANCES, SEPTIC FACILITIES, AND SEPTIC FACILITY APPURTENANCES SHALL BE ABANDONED/REMOVED/DECOMMISSIONED IN ACCORDANCE WITH FEDERAL, STATE, COUNTY, AND LOCAL REQUIREMENTS.
- ALL PROPOSED UTILITY LINES AND EXTENSIONS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH UTILITY COMPANY SPECIFICATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ADHERE TO THE UTILITY PROVIDER'S REQUIREMENTS WITH RESPECT TO UTILITY INSTALLATION.
- ALL MATERIALS EXCAVATED FROM UTILITY TRENCHES SHALL BE STOCKPILED A MINIMUM SUFFICIENT DISTANCE FROM ALL TRENCHES TO PREVENT SLIDES OR CAVE-INS.
- ALL BACKFILL MATERIALS FOR UTILITIES SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE BEFORE BEING PLACED.
- THE CONTRACTOR SHALL CONSTRUCT UTILITY TRENCHES AND PROVIDE ADEQUATE SHORING (WHERE NECESSARY) IN CONFORMANCE WITH THE LATEST REQUIREMENTS FOR CONSTRUCTION STANDARD FOR EXCAVATIONS, AS PROMULGATED BY OSHA.
- THE CONTRACTOR SHALL VERIFY THE MINIMUM SPECIFIC PIPE COVER IS PROVIDED FOR ALL UTILITIES BETWEEN THE FINAL GROUND SURFACE AND TOP OF PIPE BEFORE LAYING PIPE.
- INCREASE UTILITY TRENCH WIDTHS AS NECESSARY TO ALLOW FOR PROPER COMPACTION OF BEDDING/BACKFILL.
- ALL REQUIRED SEDIMENT/RETENTION/RETENTION BASINS SHALL BE IN PLACE AND FUNCTIONING PRIOR TO THE CREATION OF ANY ADDITIONAL IMPERVIOUS SURFACES. AS-BUILT DRAWINGS OF THE SEDIMENT BASIN, IF INTENDED TO PROVIDE THE SOLE SOURCE OF STORMWATER MANAGEMENT DURING THE CONSTRUCTION OF THE IMPERVIOUS SURFACES ON THE SITE, MUST BE SUBMITTED AND APPROVED PRIOR TO THE INSTALLATION OF ANY ADDITIONAL IMPERVIOUS SURFACES ON THE SITE.
- BICYCLE/PEDESTRIAN PATHS NOT LOCATED WITHIN A PUBLIC RIGHT-OF-WAY SHALL BE ENCUMBERED WITH AN BLANKET EASEMENT IN FAVOR OF BUCKINGHAM TOWNSHIP.
- SHRUBS LOCATED WITHIN THE TYPE 5 BUFFER, FRONTING ALONG THE NEW TREELINE, SHALL BE PERMITTED TO NATURALIZE AND GROW TO THEIR NORMAL SHAPE AND SIZE TO CONTRIBUTE TO THE REQUIRED SCREENING. SHRUBS SHALL NOT BE MAINTAINED AS A CLIPPED HEDGE. PRUNING SHALL BE LIMITED TO ERRANT BRANCHES OR STORM DAMAGE AND PERFORMED IN A MANNER WHICH PROMOTES THE NATURAL FORM OF THE PARTICULAR SHRUB SPECIES.
- DELIVERIES SHALL BE COORDINATED SO THAT THEY ARE PROVIDED DURING OFF HOURS OF SERVICE.

PROFESSIONAL ENGINEER CERTIFICATION

I, _____, REGISTERED PROFESSIONAL ENGINEER, DO HEREBY HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF THAT THE INFORMATION CONTAINED IN THE ACCOMPANYING PLANS, SPECIFICATIONS, AND REPORTS HAS BEEN PREPARED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE, IS TRUE AND CORRECT, AND IS IN CONFORMANCE WITH THE ZONING ORDINANCE AND THE SUBDIVISION AND LAND DEVELOPMENT ORDINANCE OF BUCKINGHAM TOWNSHIP AS LAST AMENDED.

(SIGNATURE - PROFESSIONAL ENGINEER) _____ (REGISTRATION NUMBER) _____

(DATE) _____

PROFESSIONAL SURVEYOR CERTIFICATION

I, ROBERT W. COOK, REGISTRATION NUMBER SU072556, DO HEREBY CERTIFY THAT THE PLAN REPRESENTS A SURVEY MADE BY HIM; THAT THE MONUMENTS SHOWN EXIST AS LOCATED; AND THAT THE DIMENSIONAL AND GEODETIC DETAILS ARE CORRECT.

(SIGNATURE - PROFESSIONAL SURVEYOR) _____ (REGISTRATION NUMBER) _____

(DATE) _____

OWNER'S ACKNOWLEDGEMENT

TO ALL TO WHOM THESE PRESENTS MAY COME, KNOW YE THAT I/WE _____ HAVE LAID OUT UPON MY/OUR LAND SITUATED IN THE TOWNSHIP OF BUCKINGHAM, COUNTY OF BUCKS, COMMONWEALTH OF PENNSYLVANIA, CERTAIN LOTS ACCORDING TO THIS PLAN WHICH IS INTENDED TO BE FORTHWITH RECORDED, WITNESS OUR HAND AND SEAL, THIS _____ DAY OF _____, 20____.

(SIGN AND PRINT NAME) _____

(SIGN AND PRINT NAME) _____

COMMONWEALTH OF PENNSYLVANIA - COUNTY OF BUCKS

ON THIS _____ DAY OF _____, 20____, BEFORE ME, THE SUBSCRIBER, A NOTARY PUBLIC OF THE COMMONWEALTH OF PENNSYLVANIA, PERSONALLY APPEARED _____, WHO ACKNOWLEDGED THIS PLAN TO BE THE OFFICIAL PLAN OF PROPERTY AND IMPROVEMENTS SHOWN THEREON, SITUATED IN THE TOWNSHIP OF BUCKINGHAM, COUNTY OF BUCKS, COMMONWEALTH OF PENNSYLVANIA, AND DESIRED THAT THIS PLAN BE RECORDED ACCORDING TO LAW.

NOTARY PUBLIC _____ MY COMMISSION EXPIRES _____

RECORDING CERTIFICATION - COUNTY OF BUCKS

THIS PLAN WAS RECORDED IN THE OFFICE FOR THE RECORDING OF DEEDS, IN AND FOR THE PAGE _____ COUNTY OF BUCKS AT DOYLESTOWN, PENNSYLVANIA IN PLAN BOOK NO. _____, ON _____, 20____.

RECORDER OF DEEDS _____

BUCKS COUNTY PLANNING COMMISSION NOTATION

BOCP FILE NO. _____

PROCESSED AND REVIEWED, REPORT PREPARED BY THE BUCKS COUNTY PLANNING COMMISSION IN ACCORDANCE WITH THE MUNICIPALITIES PLANNING CODE. _____

CERTIFIED THIS DATE _____, 20____.

BUCKS COUNTY PLANNING COMMISSION

STORMWATER MANAGEMENT SYSTEMS

I (WE), _____ THE OWNER(S), DO HEREBY ACKNOWLEDGE THAT THE STORMWATER MANAGEMENT SYSTEM IS A PERMANENT FEATURE THAT CAN BE ALTERED OR REMOVED ONLY AFTER APPROVAL OF A REVISED PLAN BY THE TOWNSHIP AND THE BUCKS COUNTY CONSERVATION DISTRICT.

WETLANDS CERTIFICATION

_____ COMPLETED AN ON-SITE WETLAND INVESTIGATION FOR THIS SITE. THE STUDY WAS COMPLETED IN ACCORDANCE WITH METHODOLOGY OUTLINED IN U.S. ARMY CORPS OF ENGINEERS 1986 "FEDERAL WETLANDS DELINEATION MANUAL", BASED UPON THIS EVALUATION NO PORTION OF THE SITE CONTAINED REGULATED WETLANDS/WATERS.

BOARD OF SUPERVISORS' APPROVAL

THIS PLAN WAS APPROVED BY THE BOARD OF SUPERVISORS OF THE TOWNSHIP OF BUCKINGHAM AT A PUBLIC MEETING HELD ON THE _____ DAY OF _____, 20____.

TOWNSHIP ENGINEER APPROVAL

THIS PLAN WAS RECOMMENDED FOR APPROVAL BY THE TOWNSHIP ENGINEER THIS _____ DAY OF _____, 20____.

(BUCKINGHAM TOWNSHIP ENGINEER) _____

Van Cleef ENGINEERING WITH FOCUS

Local/Regional Planning
Municipal Engineering
Site Development
Surveying/Aerial Drones/GIS
Water/Wastewater

Bridges/Highways
Construction Inspection
Environmental
Geotechnical/Dams
Landscape Architecture

REV/DESCRIPTION	AUTH	DATE

PLAN NOTATION

ONLY THOSE PLANS WHICH CONTAIN A DIGITAL IMPRESSED, OR COLORIZED INK SEAL OF THE ENGINEER, PROFESSIONAL SURVEYOR, SHALL BE CONSIDERED VALID. THIS PLAN HAS BEEN SPECIFICALLY PREPARED BY THE OWNER DESIGNATED HEREON. ANY MODIFICATION, REVISION, DUPLICATION OR USE WITHOUT THE WRITTEN CONSENT OF VAN CLEEF ENGINEERING ASSOCIATES IS PROHIBITED. RELIANCE ON THIS PLAN FOR ANY PURPOSE OTHER THAN THAT WHICH IS INTENDED SHALL BE AT THE SOLE DISCRETION AND LIABILITY OF THE APPLICABLE PARTY.

811

Know what's below. Call before you dig.

STOP CALL: 1-800-242-2776

PA One Call System Inc.

JEFFREY PAUL DOWNEY DATE

PENNSYLVANIA PROFESSIONAL ENGINEER NUMBER 08590

Van Cleef ENGINEERING WITH FOCUS

VAN CLEEF ENGINEERING ASSOCIATES, LLC
501 NORTH MAIN STREET, DOYLESTOWN, PA 19091
WEB: WWW.VANCLEEFENGINEERING.COM
PHONE: 610-345-1876

PROJECT NOTES (SHEET 3 OF 6 TO BE RECORDED)

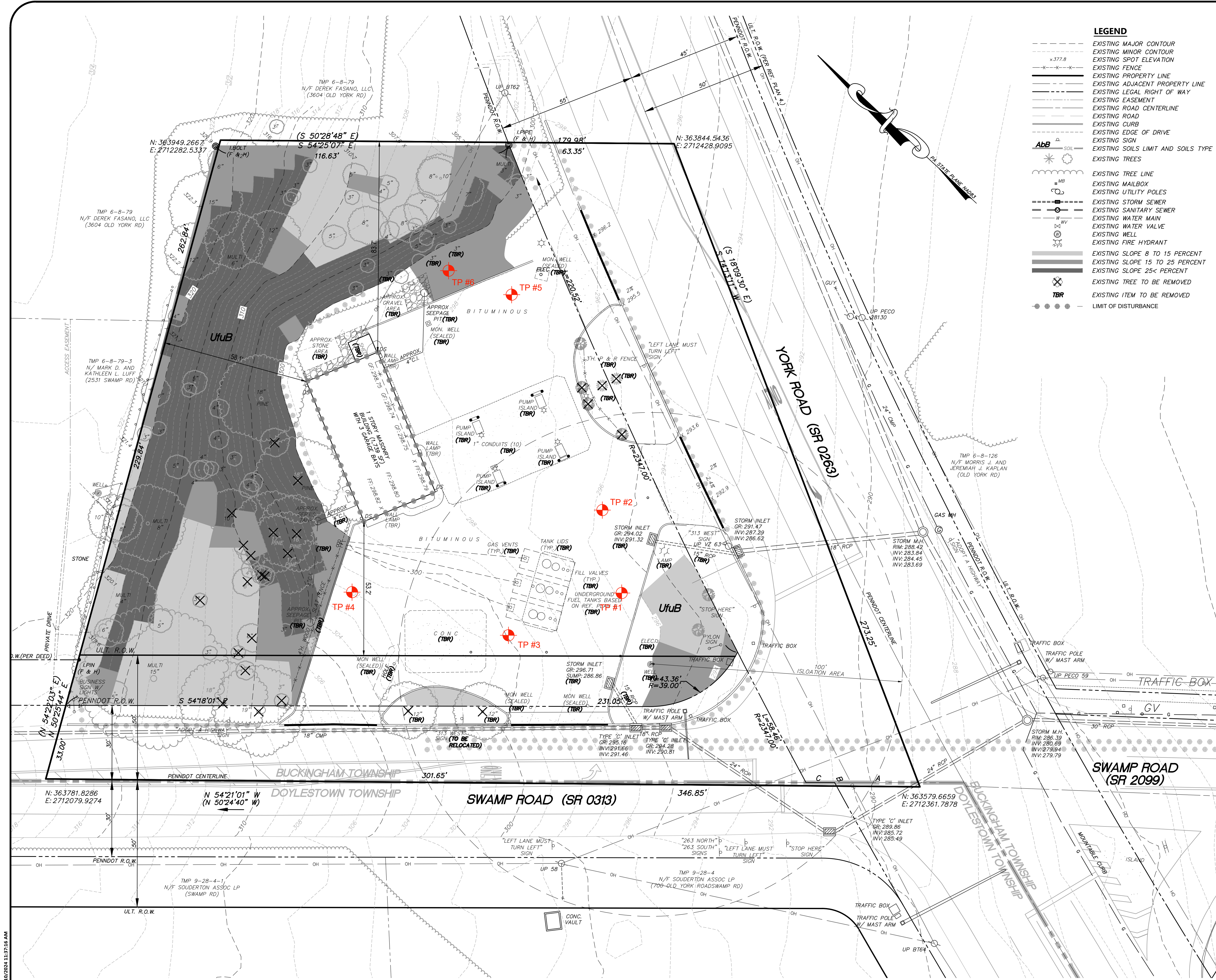
FOR

RAMOCO FUELS

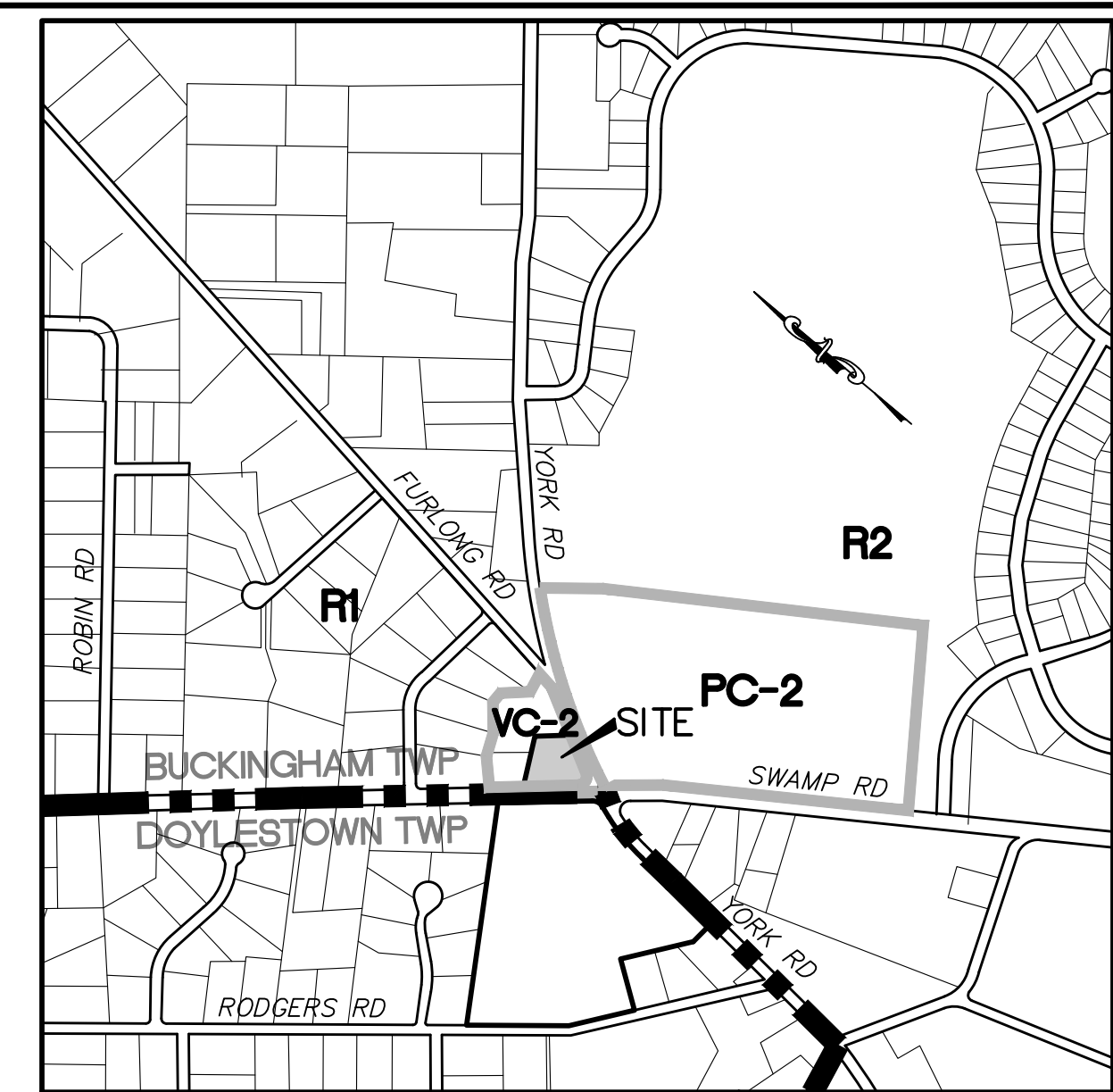
DATE:	OCTOBER 11, 2024
SCALE:	
DESIGNED BY:	JB
DRAWN BY:	ENP
CHECKED BY:	SDM
JOB NUMBER:	2302-BK

TMP: 06-008-079-002

BUCKINGHAM TOWNSHIP
BUCKS COUNTY, PENNSYLVANIA



- LEGEND**
- EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - EXISTING SPOT ELEVATION
 - EXISTING FENCE
 - EXISTING PROPERTY LINE
 - EXISTING ADJACENT PROPERTY LINE
 - EXISTING LEGAL RIGHT OF WAY
 - EXISTING EASEMENT
 - EXISTING ROAD CENTERLINE
 - EXISTING ROAD
 - EXISTING CURB
 - EXISTING EDGE OF DRIVE
 - EXISTING SIGN
 - EXISTING SOILS LIMIT AND SOILS TYPE
 - EXISTING TREES
 - EXISTING TREE LINE
 - EXISTING MAILBOX
 - EXISTING UTILITY POLES
 - EXISTING STORM SEWER
 - EXISTING SANITARY SEWER
 - EXISTING WATER MAIN
 - EXISTING WATER VALVE
 - EXISTING WELL
 - EXISTING FIRE HYDRANT
 - EXISTING SLOPE 8 TO 15 PERCENT
 - EXISTING SLOPE 15 TO 25 PERCENT
 - EXISTING SLOPE 25< PERCENT
 - EXISTING TREE TO BE REMOVED
 - EXISTING ITEM TO BE REMOVED
 - LIMIT OF DISTURBANCE



SITE LOCATION MAP
SCALE: 1" = 800'

NATURAL RESOURCE PROTECTION

RESOURCE	(1) LAND IN RESOURCE (AC.)	PROTECTION RATIO (%)	REQUIRED PROTECTION (AC.)	PROPOSED PROTECTION (AC.)
FLOODPLAIN	0.000	100	0.000	0.000
FLOODPLAIN SOILS	0.000	100	0.000	0.000
STEEP SLOPES(2)				
5-15%	0.169	60	0.101	0.106
15-25%	0.107	70	0.075	0.049
25%+	0.213	85	0.181	0.176
FOREST	0.000	0.000	0.000	0.000
WOODED LAND OTHER THAN FOREST (E. MURREES, DRUMS, ABANDONED FIELDS)	0.364	60	0.218	0.324
MATURE TREES OUTSIDE FOREST	---	---	---	---
STREAMS, WATERS, LAKES, AND PONDS	0.000	100	0.000	0.000
WETLANDS	0.000	100	0.000	0.000
RIPARIAN AREAS (50')	0.000	100	0.000	0.000
AG SOILS	N/A	N/A	N/A	N/A
PERIMETER VEGETATION (5 FT. HGT, 100 FT. FROM BOUNDARY)	0.364	100(3)	0.364	0.324
LIMESTONE AREAS	0.000	100	0.000	0.000
COLD WATER STREAMS	0.000	100	0.000	0.000
NATURAL SPRINGS (50 FT.)	0.000	100	0.000	0.000

- THE AMOUNT OF LAND IN EACH RESOURCE IS THE TOTAL AMOUNT OF THAT RESOURCE WITHIN THE BASE SITE AREA.
- ANY AREAS OF STEEP SLOPES ON SITE ARE MANMADE AND THEREFORE NOT REGULATED.
- EXCEPT WHERE NECESSARY TO PROVIDE DRIVEWAYS, WALKWAYS, BIKE PATHS, OR ROADS INTO THE TRACT.

GENERAL NOTES:

- THIS MAP REPRESENTS A BOUNDARY SURVEY COMPLETED BY VCEA IN DECEMBER 2023. THE REPRESENTATION OF THE TRACT BOUNDARY HEREON IS BASED ON PA STATE PLANE COORDINATE SYSTEM (NAD 83). THE COURSES AND DISTANCES SHOWN IN (PARENTHESES) ARE DERIVED FROM THE DEED OF RECORD.
- A TOPOGRAPHIC SURVEY OF THE SITE WAS PERFORMED BY VCEA IN JANUARY 2024. NO SURVEY WORK WAS COMPLETED WITH THE ROAD RIGHT OF WAY. THE VERTICAL DATUM IS NAVD 83 BASED ON RTK GPS OBSERVATIONS DERIVED THROUGH THE KEYNETOPS TRIMBLE VRS NETWORK.
- THIS SURVEY WAS COMPLETED UNDER THE BENEFIT OF A TITLE REPORT.
- NO CERTIFICATION IS MADE BY VAN CLEEF ENGINEERING ASSOCIATES AS TO THE POSITION OF ANY UTILITIES OR TO THE COMPLETENESS OF ANY UTILITIES SHOWN. ALL CONTRACTORS WORKING ON THIS SITE SHALL COMPLY WITH THE REQUIREMENTS OF ACT 287 OF 1974 AS AMENDED BY ACT 50 OF 2017 (UNDERGROUND UTILITY LINE PROTECTION LAW). VCEA HAS REGISTERED THIS SITE WITH THE PA ONE-CALL SYSTEM ON JANUARY 19, 2024 (SERIAL NO. 20240190516).

THE FOLLOWING IS A LIST OF REGISTERED UTILITY USERS FOR BUCKINGHAM TOWNSHIP:

COMPANY: BUCKINGHAM TOWNSHIP
ADDRESS: 4613 HUGHESIAN DRIVE
PO BOX 413
BUCKINGHAM, PA 18912
CONTACT: MICHAEL WAWCH
EMAIL: MICHAEL.WAWCH@BTR.COM
PHONE: 610-208-3375

COMPANY: COMCAST
ADDRESS: 1250 HADDONFIELD-BERLIN RD
CHERRY HILL, NJ 08034
CONTACT: WYATT PARRISH
EMAIL: WYATT.PARRISH@COMCAST.COM
PHONE: 484-368-4391

COMPANY: PECO AN EXELON COMPANY C/O USIC
ADDRESS: 450 S HENDERSON ROAD SUITE B
KING OF PRUSSIA, PA 19406
CONTACT: NIKKIA SIMPKINS
EMAIL: NIKKIASIMPKINS@USICLLC.COM
PHONE: 484-681-5720

COMPANY: VERIZON BUSINESS FORMERLY MCI
ADDRESS: 7000 WESTON PKWY
CARY, NC 27513
CONTACT: VICTOR WOOD
EMAIL: VICTOR.S.WOOD@VERIZON.COM
PHONE: 919-414-2782

REFERENCE PLANS:

- PLAN ENTITLED "PLOT PLAN (PROP #3431)" PREPARED BY GETTY OIL COMPANY DATED FEBRUARY 2, 1973, LAST REVISED AUGUST 27, 1973, (UNRECORDED).
- PLAN ENTITLED "FINAL PLAN HESTON TRACT" BY WEISEL & GILMORE ASSOCIATES DATED MAY 10, 1972, LAST REVISED FEBRUARY 1, 1973 AS RECORDED IN PLAN BOOK 107 PAGE 8.
- PLAN ENTITLED "MINOR SUBDIVISION OF LAND FOR PHILIP G. TURNER" BY DOUGLAS W. BREITINGER, REGISTERED SURVEYOR, DATED JUNE 10, 1991, LAST REVISED DECEMBER 5, 1991, AS RECORDED IN PLAN BOOK 264 PAGE 74.
- PLAN ENTITLED "SUBDIVISION PLAN BUCKINGHAM TWP. (SA 91-06) SPRAY IRRIGATION SEWAGE DISPOSAL FACILITY", PREPARED BY KNIGHT ENGINEERING INC. DATED MAY 29, 1991, LAST REVISED NOVEMBER 22, 1991 AS RECORDED IN PLAN BOOK 264 PAGE 48.
- PLAN ENTITLED "COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF HIGHWAYS DRAWINGS AUTHORIZING CONDEMNATION OF RIGHT OF WAY, FOR LEG. ROUTE NO. 6 R/W" SHEETS 23-24 OF 34, PREPARED BY BY URBAN ENGINEERS INC. DATED MARCH 13, 1964 AS RECORDED IN HIGHWAY BOOK 31 PAGE 5 AND REVISED IN HIGHWAY BOOK 47 PAGE 7 (SWAMP ROAD ONLY), HIGHWAY BOOK 48 PAGE 4 AND HIGHWAY BOOK 49 PAGE 3.

OWNER OF RECORD:
TRINETRA REALTY HOLDINGS PA LP
PO BOX 2218
PRINCETON, NJ 08543
609-929-5146

SITE ADDRESS:
3616 YORK RD
FURLONG, PA 18925

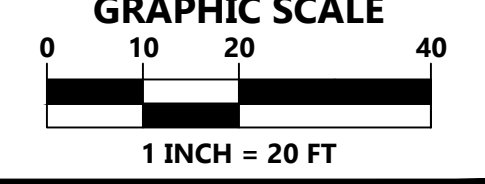
TMP 06-008-079-002
(DEED) INSTRUMENT 2015049232

SITE AREA:
1.538 ACRES OR 66,977 SQ. FT. (GROSS AREA)
0.986 ACRES OR 42,945 SQ. FT. (NET TO LEGAL R.O.W.)
0.870 ACRES OR 37,893 SQ. FT. (NET TO ULT. R.O.W.)



REV/DESCRIPTION	AUTH	DATE

811 Know what's below. Call before you dig. PA One-Call System Inc. STOP CALL: 1-800-242-2776



PLAN NOTATION
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JEFFREY PAUL DOWNNEY DATE
PENNSYLVANIA PROFESSIONAL ENGINEER NUMBER 08590

EXISTING FEATURES/DEMOLITION PLAN

FOR
RAMOCO FUELS

DATE:	OCTOBER 11, 2024
SCALE:	1" = 20'
DESIGNED BY:	JB
DRAWN BY:	ENP
CHECKED BY:	SDM
JOB NUMBER:	2302-BK

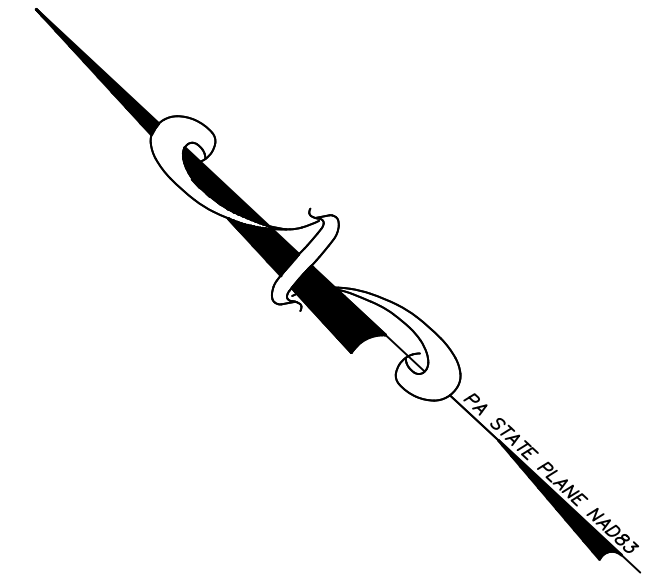
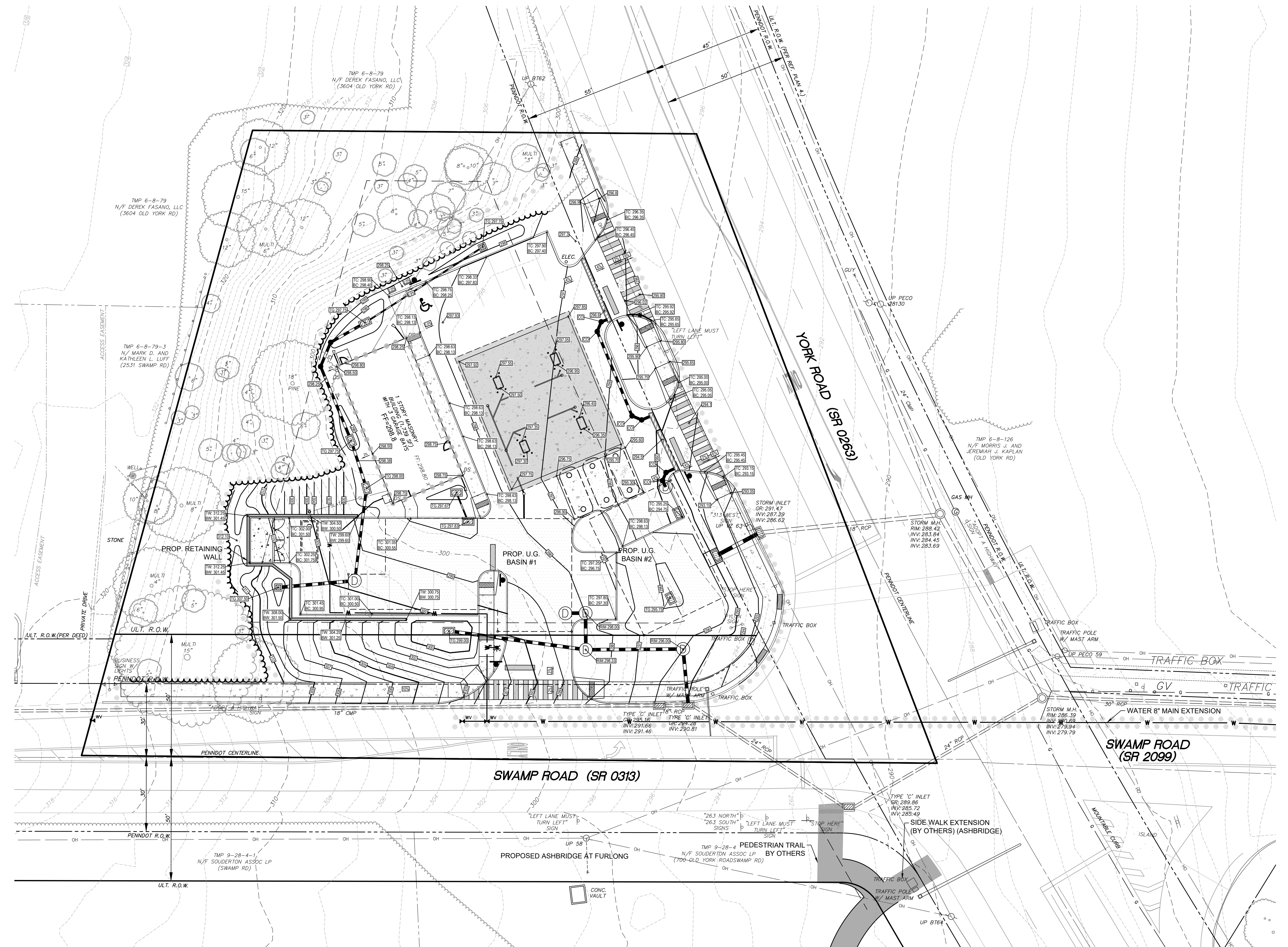
TMP-06-008-079-002

BUCKINGHAM TOWNSHIP
BUCKS COUNTY, PENNSYLVANIA

LD 2020-01

ROBERT W. COOK, P.L.S.
PENNSYLVANIA PROFESSIONAL LAND SURVEYOR NUMBER SU257556

NOTE: TOPSOIL SHALL NOT BE REMOVED FROM THE DEVELOPMENT SITE.



REV/DESCRIPTION AUTH DATE

SERIAL NO. _____
Before You Dig Anywhere
811 PENNSYLVANIA
Know what's below. STOP CALL 1-800-242-2776
Call before you dig. PA Law requires 3 working days notice before dig activities.
PA ONE CALL SYSTEM INC.

GRAPHIC SCALE
0 10 20 40
1 INCH = 20 FT

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- LEGEND**
- EXISTING MAJOR CONTOUR
 - - - EXISTING MINOR CONTOUR
 - EXISTING SPOT ELEVATION
 - - - EXISTING FENCE
 - EXISTING PROPERTY LINE
 - - - EXISTING ADJACENT PROPERTY LINE
 - - - EXISTING LEGAL RIGHT OF WAY
 - - - EXISTING EASEMENT
 - - - EXISTING ROAD CENTERLINE
 - - - EXISTING ROAD
 - - - EXISTING CURB
 - - - EXISTING EDGE OF DRIVE
 - - - EXISTING SIGN
 - - - EXISTING STREAM
 - - - EXISTING TREE
 - - - EXISTING TREE LINE
 - - - EXISTING MAILBOX
 - - - EXISTING UTILITY POLES
 - - - EXISTING OVERHEAD ELECTRIC
 - - - EXISTING TELEPHONE
 - - - EXISTING GAS MAIN
 - - - EXISTING STORM SEWER
 - - - EXISTING SANITARY SEWER
 - - - EXISTING WATER MAIN
 - - - EXISTING WELL
 - - - EXISTING FIRE HYDRANT
 - - - PROPOSED CONTOUR
 - - - PROPOSED CURB
 - - - PROPOSED EASEMENT
 - - - PROPOSED RIGHT OF WAY
 - - - PROPOSED SETBACK LINE
 - - - PROPOSED LIMIT OF TREE CLEARING
 - - - PROPOSED SIDEWALK
 - - - PROPOSED UTILITY POLE
 - - - PROPOSED STORM SEWER
 - - - PROPOSED SANITARY SEWER
 - - - PROPOSED WATER MAIN
 - - - PROPOSED FIRE HYDRANT
 - - - FINISHED FLOOR ELEVATION
 - - - PROPOSED SPOT ELEVATION
 - - - LIMIT OF DISTURBANCE

JEFFREY PAUL DOWNEY DATE
PENNSYLVANIA PROFESSIONAL ENGINEER NUMBER 08590

Van Cleef
ENGINEERING WITH FOCUS

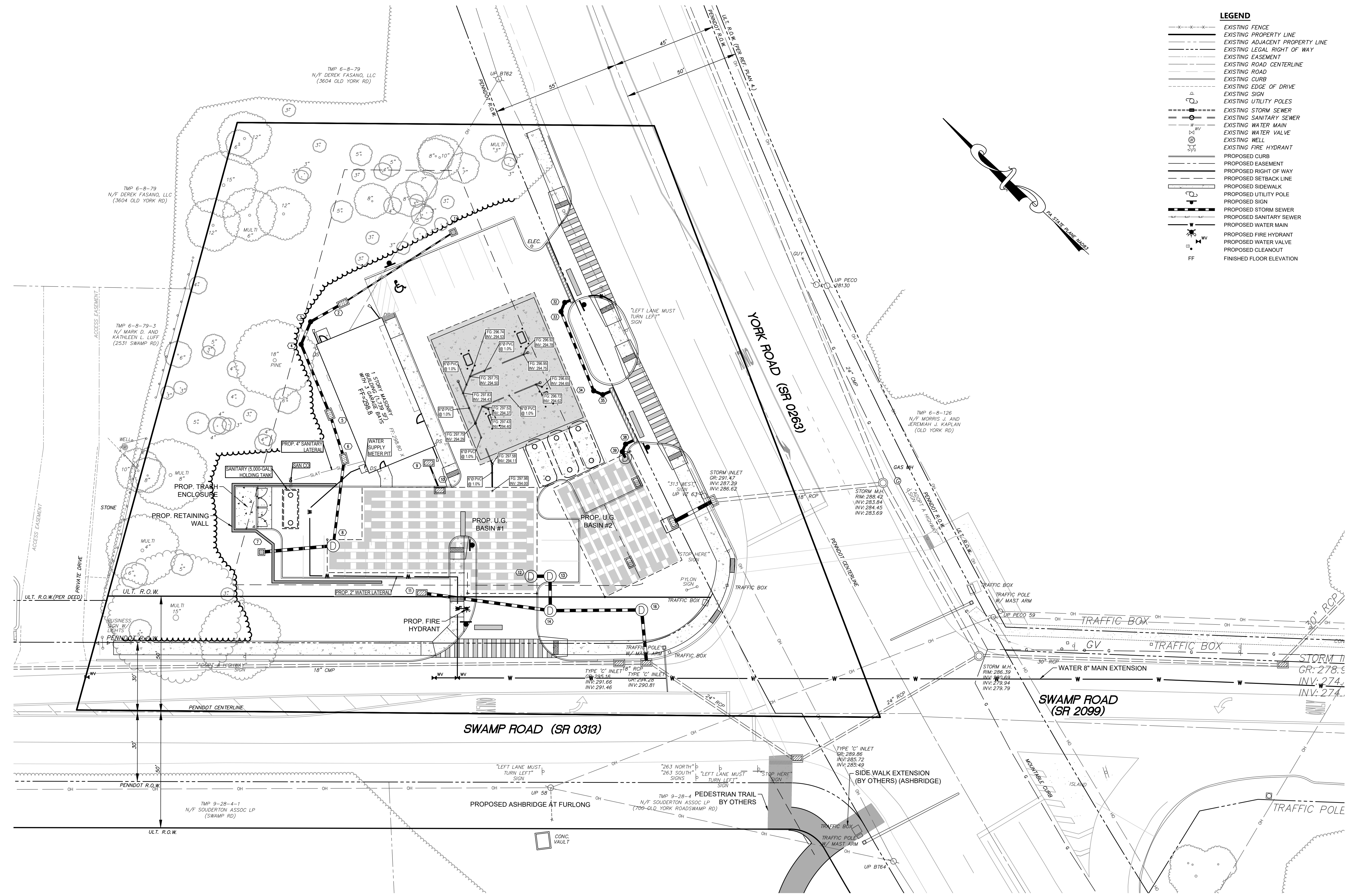
VAN CLEEF ENGINEERING ASSOCIATES, LLC
501 NORTH MAIN STREET, DOYLESTOWN, PA 18041
WEB: WWW.VANCLEEFENGINEERING.COM
PHONE: (610) 345-1876

GRADING PLAN
FOR
RAMOCO FUELS

DATE: OCTOBER 11, 2024
SCALE: 1" = 20'
DESIGNED BY: JPB
DRAWN BY: ENP
CHECKED BY: SDM
JOB NUMBER: 2302-BK

TMP-06-008-079-002

BUCKINGHAM TOWNSHIP
BUCKS COUNTY, PENNSYLVANIA



LEGEND

---	EXISTING FENCE
---	EXISTING PROPERTY LINE
---	EXISTING ADJACENT PROPERTY LINE
---	EXISTING LEGAL RIGHT OF WAY
---	EXISTING EASEMENT
---	EXISTING ROAD CENTERLINE
---	EXISTING ROAD
---	EXISTING CURB
---	EXISTING EDGE OF DRIVE
---	EXISTING SIGN
---	EXISTING UTILITY POLES
---	EXISTING STORM SEWER
---	EXISTING SANITARY SEWER
---	EXISTING WATER MAIN
---	EXISTING WATER VALVE
---	EXISTING WELL
---	EXISTING FIRE HYDRANT
---	PROPOSED CURB
---	PROPOSED EASEMENT
---	PROPOSED RIGHT OF WAY
---	PROPOSED SETBACK LINE
---	PROPOSED SIDEWALK
---	PROPOSED UTILITY POLE
---	PROPOSED SIGN
---	PROPOSED STORM SEWER
---	PROPOSED SANITARY SEWER
---	PROPOSED WATER MAIN
---	PROPOSED FIRE HYDRANT
---	PROPOSED WATER VALVE
---	PROPOSED CLEANOUT
FF	FINISHED FLOOR ELEVATION

REV/DESCRIPTION	AUTH	DATE

SERIAL NO. _____

Before You Dig Anywhere

811 PENNSYLVANIA

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PA ONE CALL SYSTEM INC.

GRAPHIC SCALE

0 10 20 40

1 INCH = 20 FT

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JEFFREY PAUL DOWNNEY DATE
PENNSYLVANIA PROFESSIONAL ENGINEER NUMBER 085090

Van Cleef
ENGINEERING WITH FOCUS

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501 NORTH MAIN STREET, DOYLESTOWN, PA 18041
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PHONE: (610) 345-1876

UTILITIES PLAN

FOR

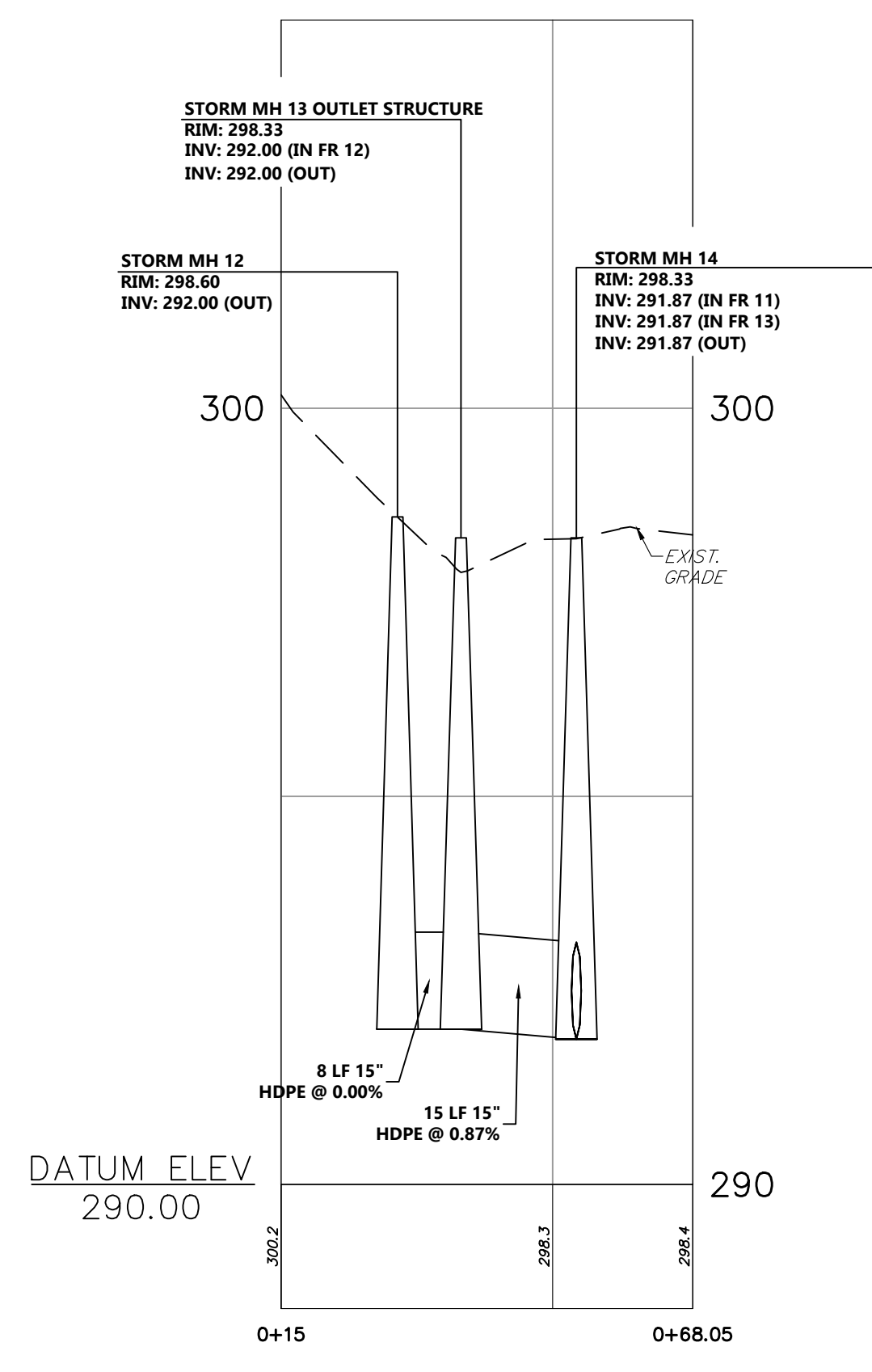
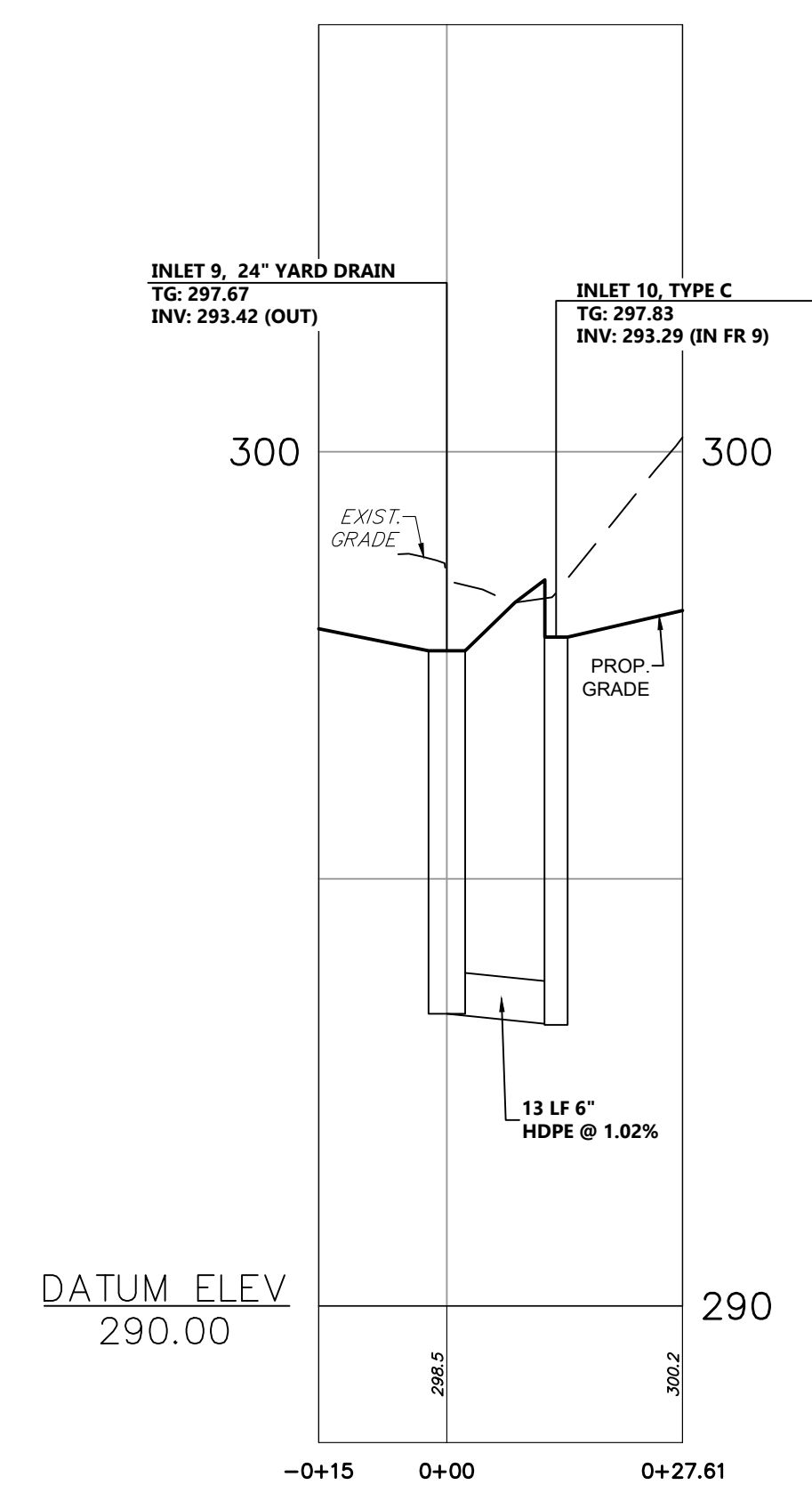
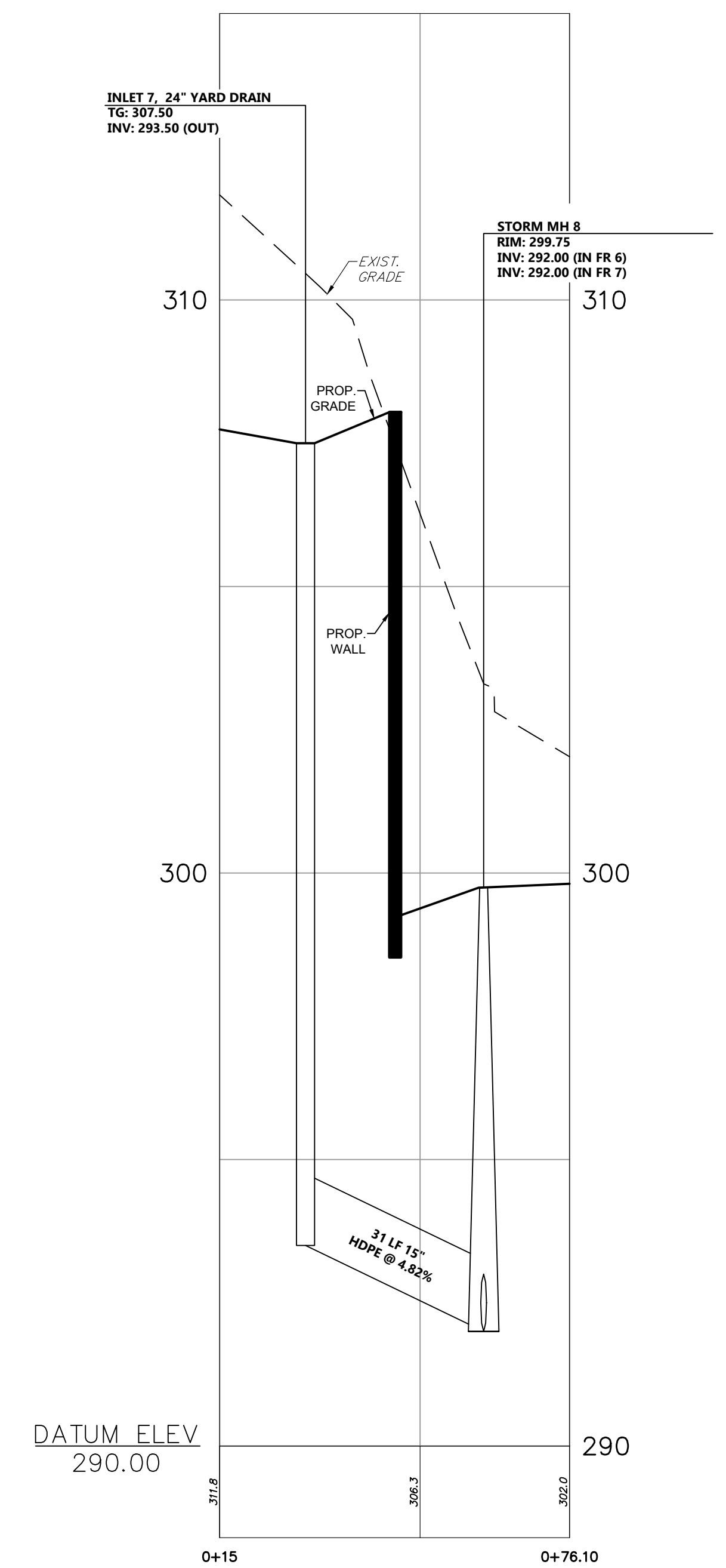
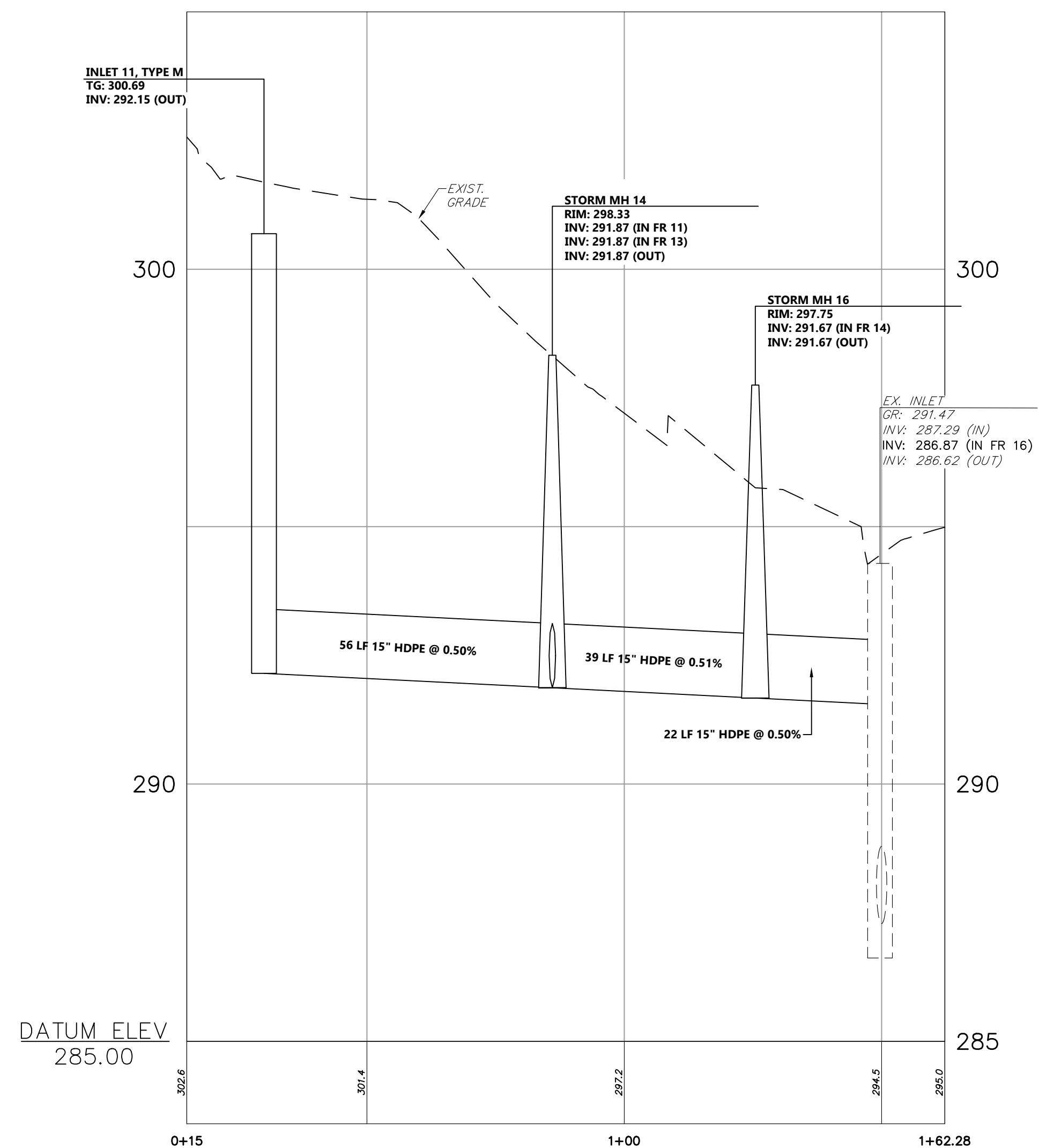
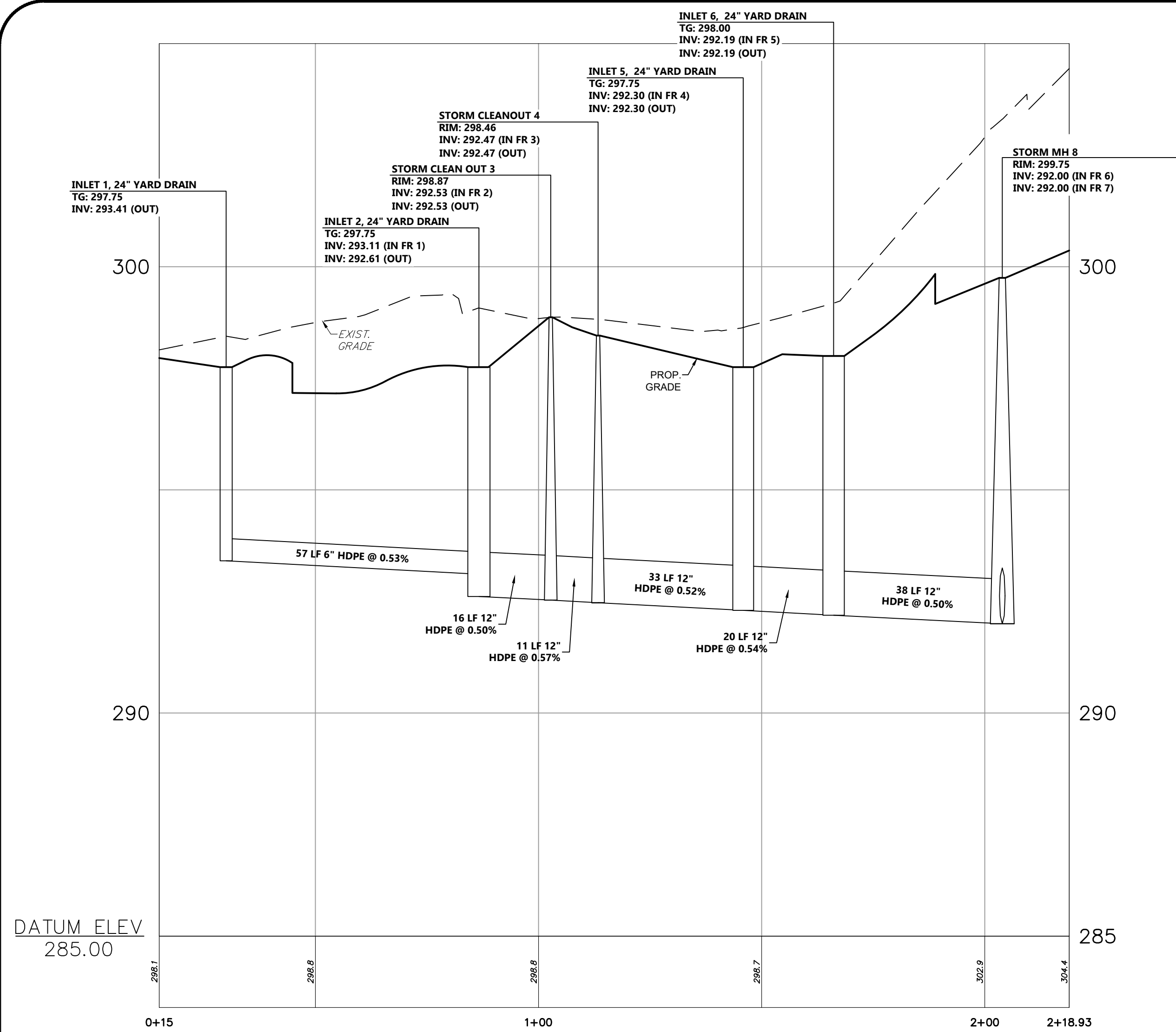
RAMOCO FUELS

DATE: OCTOBER 11, 2024
SCALE: 1"=20'
DESIGNED BY: JB
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TMP: 06-008-079-002

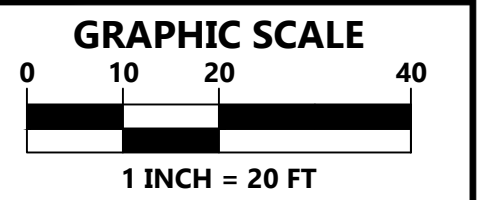
BUCKINGHAM TOWNSHIP
BUCKS COUNTY, PENNSYLVANIA

LD 2020-01



REV/DESCRIPTION	AUTH	DATE

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 PA ONE CALL SYSTEM INC.



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JEFFREY PAUL DOWNEY DATE
 PENNSYLVANIA PROFESSIONAL ENGINEER NUMBER 085090

Van Cleaf
 ENGINEERING WITH FOCUS

VAN CLEEF ENGINEERING ASSOCIATES, LLC
 501 NORTH MAIN STREET, DOYLESTOWN, PA 18041
 WEB: WWW.VANCLEEFENGINEERING.COM
 PHONE: (610) 344-1876

OFF-ROAD PROFILES

FOR
RAMOCO FUELS

DATE:	OCTOBER 11, 2024
SCALE:	1" = 20'
DESIGNED BY:	JTB
DRAWN BY:	ENP
CHECKED BY:	SDM
JOB NUMBER:	2302-BK

TMP: 06-008-079-002

BUCKINGHAM TOWNSHIP
 BUCKS COUNTY, PENNSYLVANIA

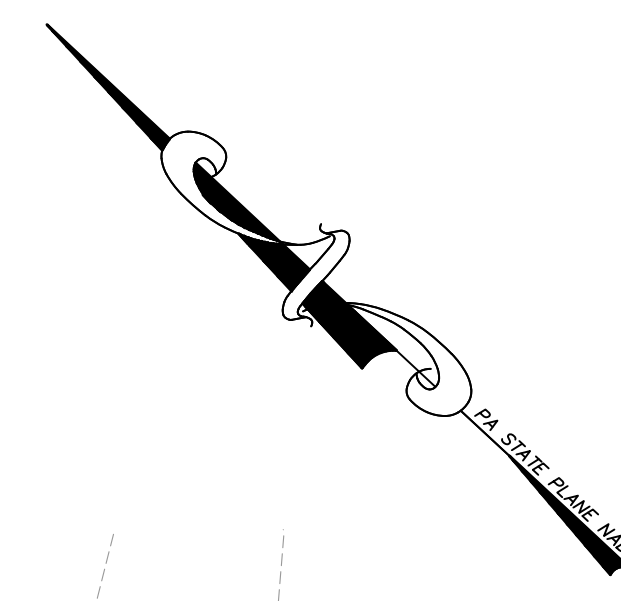
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SOIL LEGEND

SOIL SYMBOL	SOIL NAME	DEPTH TO SEASONAL HIGH WATER TABLE	DEPTH TO RESTRICTIVE FEATURE (IN.)	HYDROLOGIC GROUP	ALLUVIAL	LAND CAPABILITY CLASS
UfuB	URBAN LAND 0-8% SLOPES	7'-0" +	N/A	N/A (B ASSUMED)	NO	8S

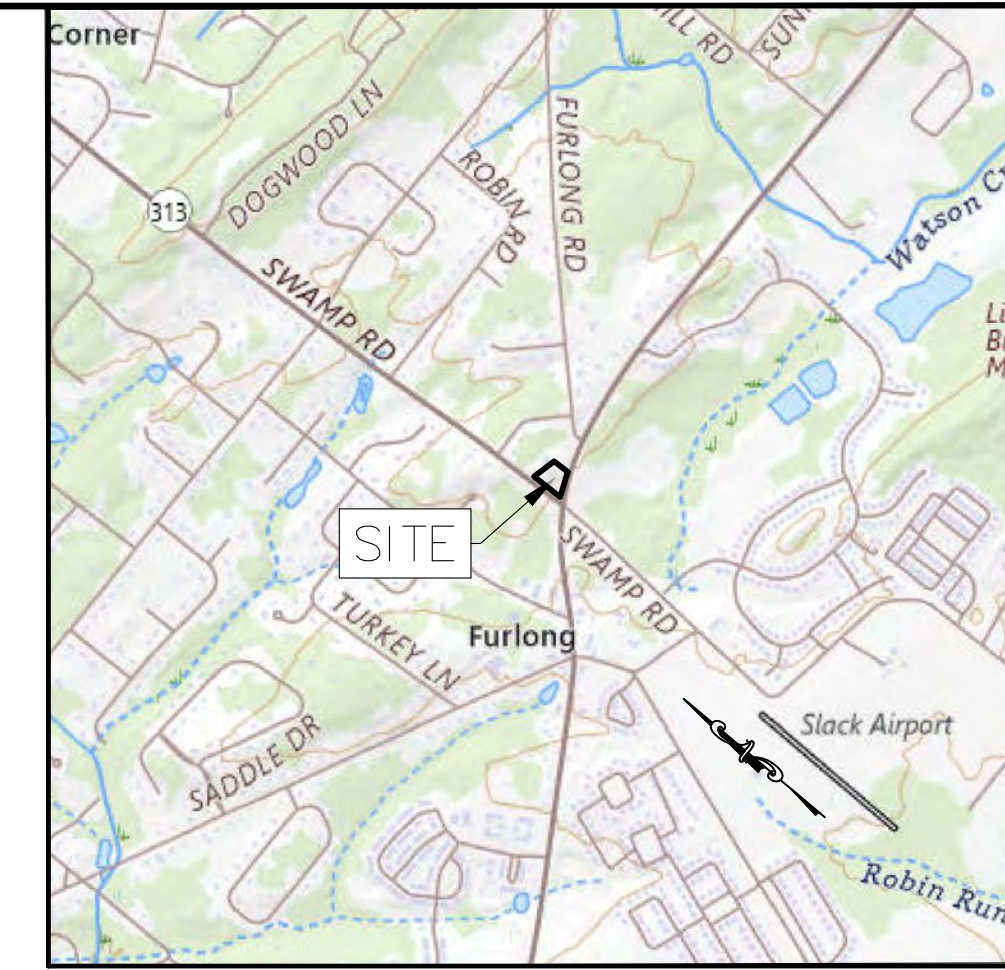
SOIL LIMITATIONS

SOIL TYPE	DEPTH TO BEDROCK (ft)	HYDRIC SOILS	CUTBANKS CAVE	COMPRESSIVE TO CONCRETE/STEEL (C, S, OR C/S)	DRIFT	EASILY ERODIBLE	FLOODING	DEPTH TO SATURATED SOIL WATER TABLE	HYDRIC / HYDRIC INCLUSIONS	LOW STRENGTH / LANDSLIDE PRONE	PERCOLATION	PIPING	POOR SOURCE OF TOPSOIL	FROST ACTION	SHRINK-SWELL	POTENTIAL SINKHOLE	PONDING	WETNESS
URBAN LAND 0-8% SLOPES	>8"	NO	YES	C/S	NO	YES	NO	YES	NO	YES	NO	YES	YES	YES	NO	NO	NO	NO

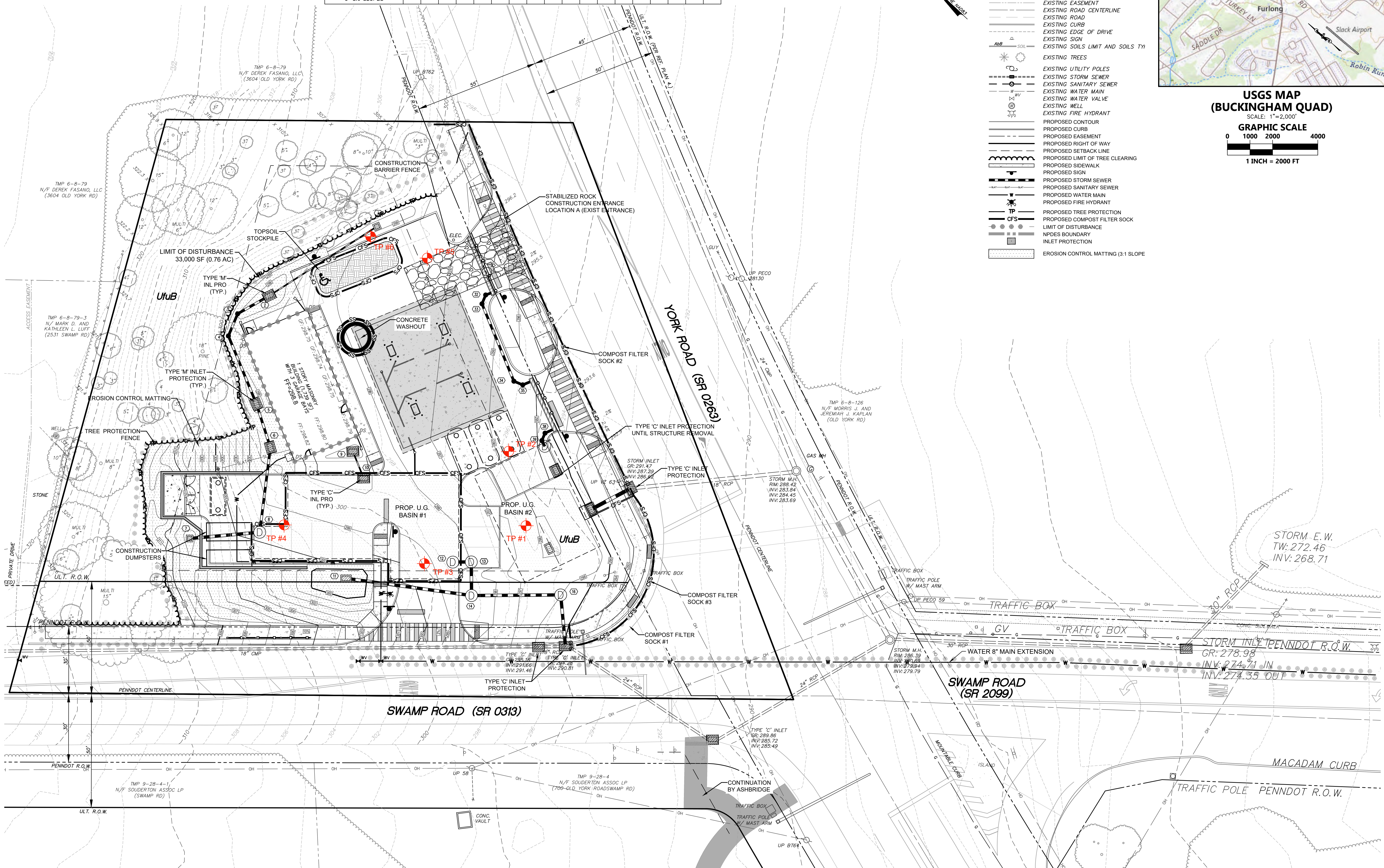


LEGEND

- EXISTING 10' CONTOUR
- EXISTING 2' CONTOUR
- EXISTING SPOT ELEVATION
- EXISTING FENCE
- EXISTING PROPERTY LINE
- EXISTING ADJACENT PROPERTY LINE
- EXISTING LEGAL RIGHT OF WAY
- EXISTING EASEMENT
- EXISTING ROAD CENTERLINE
- EXISTING ROAD
- EXISTING CURB
- EXISTING EDGE OF DRIVE
- EXISTING SIGN
- EXISTING SOILS LIMIT AND SOILS TY
- EXISTING TREES
- EXISTING UTILITY POLES
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
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- EXISTING WATER VALVE
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- PROPOSED SIDEWALK
- PROPOSED SIGN
- PROPOSED STORM SEWER
- PROPOSED SANITARY SEWER
- PROPOSED WATER MAIN
- PROPOSED FIRE HYDRANT
- PROPOSED TREE PROTECTION
- PROPOSED COMPOST FILTER SOCK
- LIMIT OF DISTURBANCE
- NPDES BOUNDARY
- INLET PROTECTION
- EROSION CONTROL MATTING (3:1 SLOPE)



USGS MAP (BUCKINGHAM QUAD)
 SCALE: 1"=2,000'
GRAPHIC SCALE
 0 1000 2000 4000
 1 INCH = 2000 FT



REV/DESCRIPTION AUTH DATE

SERIAL NO. _____
 Before You Dig Anywhere

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 PA ONE CALL SYSTEM, INC.

GRAPHIC SCALE
 0 10 20 40
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JEFFREY PAUL DOWNNEY DATE
 PENNSYLVANIA PROFESSIONAL ENGINEER NUMBER 08590

 VAN CLEEF ENGINEERING ASSOCIATES, LLC
 501 NORTH MAIN STREET, DOYLESTOWN, PA 18041
 WEB: WWW.VANCLEEFENGINEERING.COM
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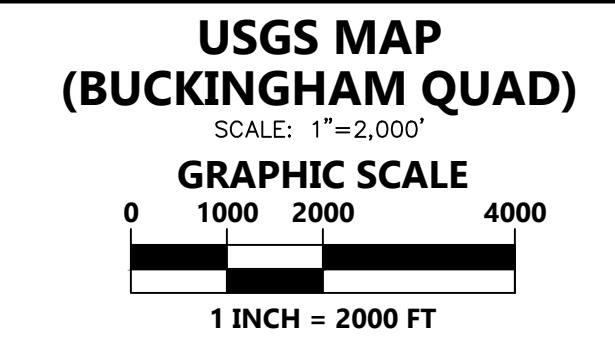
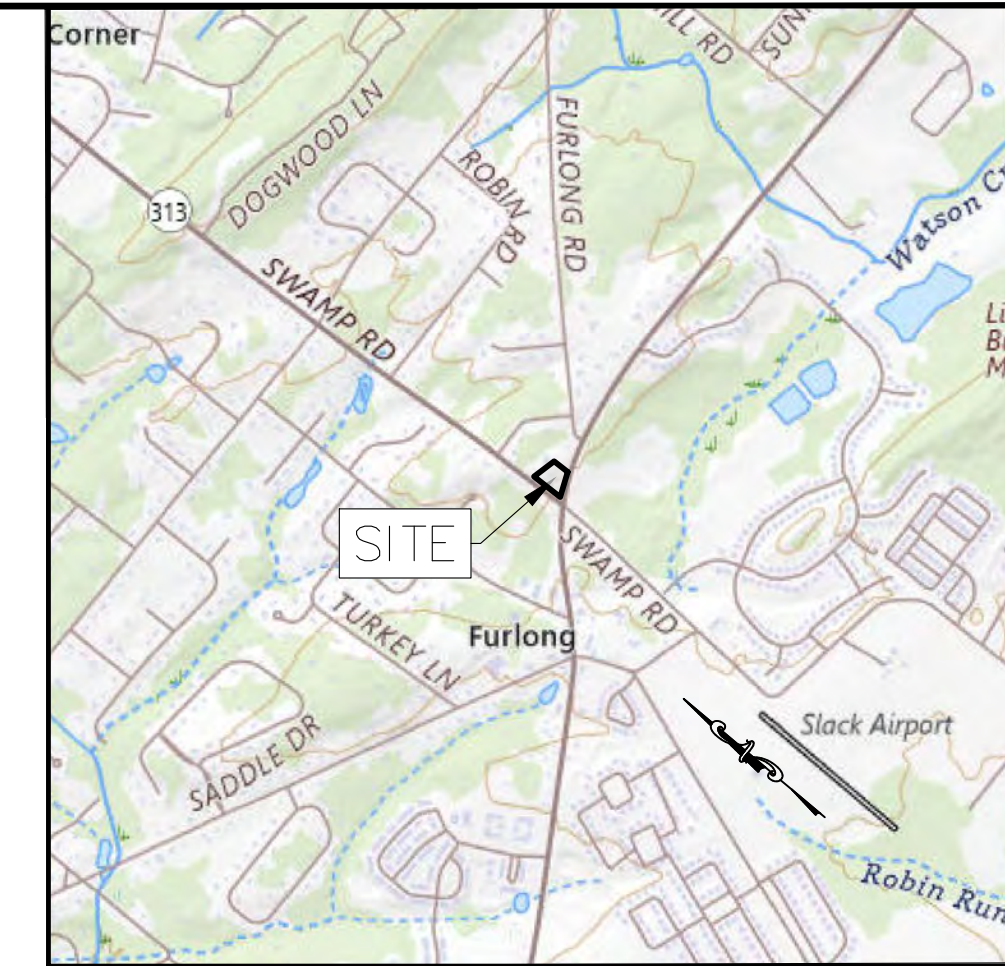
EROSION & SEDIMENTATION CONTROL PLAN

FOR
RAMOCO FUELS

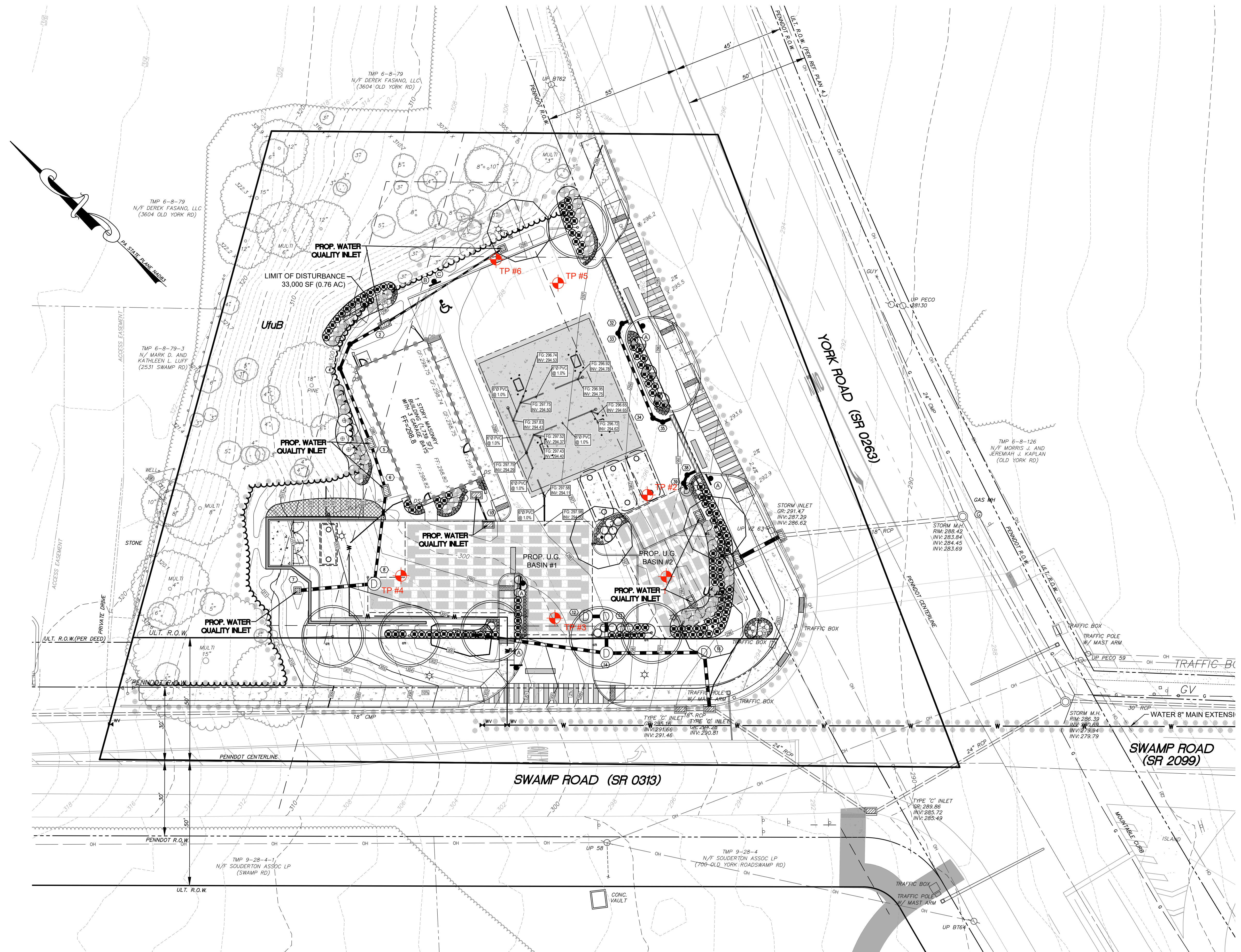
DATE: OCTOBER 11, 2024
 SCALE: 1"=20'
 DESIGNED BY: JPB
 DRAWN BY: ENP
 CHECKED BY: SDM
 JOB NUMBER: 2302-BK

TMP: 06-008-079-002

BUCKINGHAM TOWNSHIP
 BUCKS COUNTY, PENNSYLVANIA



PIT #	EX. GRADE	PROP. BOTTOM
TP #1	296.0	289.4 +/-
TP #2	296.0	289.4 +/-
TP #3	300.0	293.5 +/-
TP #4	302.0	293.5 +/-
TP #5	297.5	292.5 +/-
TP #6	298.5	292.5 +/-

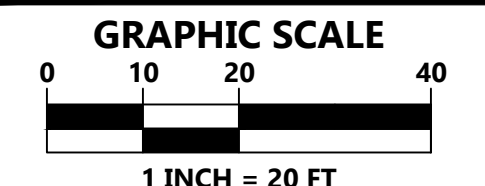


LEGEND

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING SPOT ELEVATION
- EXISTING FENCE
- EXISTING PROPERTY LINE
- EXISTING ADJACENT PROPERTY LINE
- EXISTING LEGAL RIGHT OF WAY
- EXISTING EASEMENT
- EXISTING ROAD CENTERLINE
- EXISTING ROAD
- EXISTING CURB
- EXISTING EDGE OF DRIVE
- EXISTING SIGN
- EXISTING STREAM
- EXISTING TREES
- EXISTING TREE LINE
- EXISTING MAILBOX
- EXISTING UTILITY POLES
- EXISTING OVERHEAD ELECTRIC
- EXISTING TELEPHONE
- EXISTING GAS MAIN
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING WATER MAIN
- EXISTING WATER VALVE
- EXISTING WELL
- EXISTING FIRE HYDRANT
- PROPOSED CONTOUR
- PROPOSED CURB
- PROPOSED EASEMENT
- PROPOSED RIGHT OF WAY
- PROPOSED SETBACK LINE
- PROPOSED LIMIT OF TREE CLEARING
- PROPOSED SIDEWALK
- PROPOSED UTILITY POLE
- PROPOSED SIGN
- PROPOSED STORM SEWER
- PROPOSED SANITARY SEWER
- PROPOSED WATER MAIN
- PROPOSED FIRE HYDRANT
- FINISHED FLOOR ELEVATION
- LIMIT OF DISTURBANCE
- PROPOSED LANDSCAPING

REV/DESCRIPTION AUTH DATE

SERIAL NO. _____
Before You Dig Anywhere
811 PENNSYLVANIA
Know what's below. STOP CALL: 1-800-242-2776
Call before you dig. PA Law requires 3 working days notice before dig. PA ONE CALL SYSTEM INC.



PLAN NOTATION
ONLY THOSE PLANS WHICH CONTAIN A DIGITAL IMPRESSED, OR COLORED INK SEAL OF THE RESPONSIBLE PROFESSIONAL SHALL BE CONSIDERED VALID. THIS PLAN HAS BEEN SPECIFICALLY PREPARED FOR THE OWNER DESIGNATED HEREON. ANY MODIFICATION, REVISION, DUPLICATION OR USE WITHOUT THE WRITTEN CONSENT OF VAN CLEEF ENGINEERING ASSOCIATES IS PROHIBITED. RELIANCE ON THIS PLAN FOR ANY PURPOSE OTHER THAN THAT WHICH IS INTENDED SHALL BE AT THE SOLE DISCRETION AND LIABILITY OF THE APPLICABLE PARTY.

JEFFREY PAUL DOWNNEY DATE
PENNSYLVANIA PROFESSIONAL ENGINEER NUMBER 08590

PCSM PLAN (SHEET 4 OF 6 TO BE RECORDED)

FOR
RAMOCO FUELS

DATE: OCTOBER 11, 2024
SCALE: 1"=20'
DESIGNED BY: JPB
DRAWN BY: ENP
CHECKED BY: SDM
JOB NUMBER: 2302-BK

TMP: 06-008-079-002

BUCKINGHAM TOWNSHIP
BUCKS COUNTY, PENNSYLVANIA

F:\plan\2023\230202-BK\DWG\06-008-079-002_PCSM.dwg: gjeffrey 10/10/2024 11:42:52 AM

GENERAL EROSION & SEDIMENT CONTROL NOTES

- 1. EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT ALL TIMES...
2. AT LEAST 7 DAYS PRIOR TO STARTING EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING...
3. UPON INSTALLATION OR STABILIZATION OF PERMETER SEDIMENT CONTROL BMPs AND AN ON-SITE 3 DAYS PRIOR TO PROCEEDING WITH THE BULK EARTH DISTURBANCE ACTIVITIES...
4. AT LEAST 3 DAYS PRIOR TO STARTING EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED...
5. EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS...
6. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL...
7. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE...
8. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS...
9. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLANS IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF EXPOSED AREAS...
10. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION...
11. BUILDING MATERIAL AND WASTES MUST BE REMOVED FROM THE SITE AND RECYCLED IN ACCORDANCE WITH DEP'S SOLID WASTE REGULATIONS...
12. OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT...
13. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING MATERIAL BROUGHT ON SITE IS CLEAN FILL...
14. PUMPING OF WATER FROM WORK AREAS SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN...
15. UNTIL THE SITE IS STABILIZED, EROSION AND SEDIMENT BMPs SHALL BE MAINTAINED PROPERLY...
16. A LOG SHOWING DATES WHEN E&S BMPs WERE INSPECTED AS WELL AS DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE...
17. SEDIMENT TRAPPED ONTO A PUBLIC ROADWAY OR SIDEWALK SHALL BE IMMEDIATELY RETURNED TO THE CONSTRUCTION SITE AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN...
18. SEDIMENT REMOVED FROM BMPs SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS...
19. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 8" OR TO THE DEPTH ENCOUNTERED WITHIN THE SITE PRIOR TO PLACEMENT OF TOPSOIL...
20. FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS...
21. EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 8 INCHES IN THICKNESS...
22. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOIL, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS...
23. FROZEN MATERIALS OR SOFT, MUDDY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS...
24. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES...
25. STEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD...
26. GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE...
27. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE AN AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE DISTURBED AREAS...
28. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER...
29. E&S BMPs SHALL REMAIN FUNCTIONAL AS SUCH UNTIL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED...
30. UPON COMPLETION OF EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF DISTURBED AREAS...
31. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPs MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPs...
32. UPON COMPLETION OF EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF DISTURBED AREAS...
33. 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...
34. CHANNELS SHALL BE KEPT FREE OF OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO FILL, ROCKS, LEAVES, WOODY DEBRIS, ACCUMULATED SEDIMENT...
35. UNDERGROUND UTILITIES CUTTING THROUGH AN ACTIVE CHANNEL SHALL BE IMMEDIATELY BACKFILLED AND THE CHANNEL RESTORED TO ITS ORIGINAL CROSS-SECTION...
36. SEDIMENT BASINS AND/OR TRAPS SHALL BE KEPT FREE OF CONSTRUCTION WASTE, WASH WATER, AND OTHER DEBRIS HAVING POTENTIAL TO CLOG THE BASIN/TRAP...
37. SEDIMENT BASINS SHALL BE PROTECTED FROM UNAUTHORIZED ACTS BY THIRD PARTIES...
38. DAMAGE THAT OCCURS IN WHOLE OR IN PART AS A RESULT OF BASIN OR TRAP DISCHARGE SHALL BE IMMEDIATELY REPAIRED BY THE PERMITTEE IN A PERMANENT MANNER...
39. UPON REQUEST, THE APPLICANT OR HIS CONTRACTOR SHALL PROVIDE AN AS-BUILT (RECORD DRAWING) FOR SEDIMENT BASIN OR TRAP TO THE MUNICIPAL INSPECTOR...
40. FILL MATERIAL FOR EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS...
41. THE OPERATOR/RESPONSIBLE PERSON (O/RP) ON SITE SHALL ASSURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED...
42. THE O/RP SHALL ASSURE THAT AN EROSION AND SEDIMENT CONTROL PLAN HAS BEEN PREPARED, APPROVED BY THE BUCKS COUNTY CONSERVATION DISTRICT...
43. PUMPING OF SEDIMENT-LADEN WATER SHALL BE THROUGH A SEDIMENT CONTROL BMP SUCH AS A PUMPED WATER FILTER BAG DISCHARGING OVER UNDISTURBED AREA...
44. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN MUST BE AVAILABLE ON THE PROJECT SITE AT ALL TIMES...
45. EROSION AND SEDIMENT BMPs MUST BE CONSTRUCTED, STABILIZED AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THE TRIBUTARY AREAS OF THOSE BMPs...
46. DISTURBED AREAS THAT ARE AT FINISHED GRADE OR WHICH WILL NOT BE RE-DISTURBED WITHIN ONE YEAR MUST BE STABILIZED IN ACCORDANCE WITH PERMANENT VEGETATIVE STABILIZATION SPECIFICATIONS...
47. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% (PERCENT) VEGETATIVE 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...
48. SEDIMENT REMOVED FROM BMPs SHALL BE DISPOSED OF ON-SITE IN LANDSCAPED AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOODPLAINS OR DRAINAGE SWALES AND IMMEDIATELY STABILIZED OR PLACED IN SOIL STOCKPILES AND STABILIZED...
49. BMPs SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER MEASURABLE STORM EVENTS (I.E. AT LEAST 0.25 INCH).

PROJECT CONSTRUCTION WASTES

- 1. TREES - CHIPPED AND REMOVED OFFSITE FOR MULCH.
2. BUILDING MATERIALS - SHALL BE REMOVED AND DISPOSED OF AT PROPER RECYCLING FACILITY ACCORDING TO THE GENERAL EROSION & SEDIMENT CONTROL NOTES.
3. ROCK WASTE - ROCKS THAT ARE SUITABLE FOR LANDSCAPING USES SHALL BE USED ON SITE OR AT ANOTHER FACILITY.
4. SOIL WASTE - EXCAVATED SOIL SHALL BE USED ON SITE, AS FILL MATERIAL...
5. REMOVAL FROM SEDIMENT BASINS AND TRAPS SHALL BE RETURNED TO THE SITE UPSTREAM OF PROPOSED BMPs.
6. BUILDING MATERIALS AND WASTES MUST BE REMOVED FROM THE SITE AND RECYCLED IN ACCORDANCE WITH DEP'S SOLID WASTE REGULATIONS...
7. BUILDING MATERIALS (USED OR UNUSED) OR WASTE MATERIALS SHALL BE BURIED, BURIED, DUMPED OR DISCHARGED AT THE SITE.

WASTE MANAGEMENT

BUILDING MATERIALS AND OTHER CONSTRUCTION SITE WASTES MUST BE PROPERLY MANAGED AND DISPOSED OF TO REDUCE POTENTIAL FOR POLLUTION TO SURFACE AND GROUND WATERS AS PER 25 PA CODE 102.40(S)(4)... UNDER NO CIRCUMSTANCES MAY EROSION CONTROL BMPs BE USED FOR TEMPORARY STORAGE OF DEMOLITION MATERIALS OR CONSTRUCTION WASTES... WHEREVER HEAVY EQUIPMENT WILL BE USED DURING CONSTRUCTION OF THE CUTS AND FILLS OR PROPOSED BUILDINGS...

UTILITY LINE TRENCH EXCAVATION

- 1. EXPOSED TRENCH EXCAVATIONS HAVE HIGH POTENTIAL FOR ACCELERATED EROSION AND SEDIMENT POLLUTION...
2. CONSTRUCTION REQUIREMENTS: A) LIMIT ADVANCE CLEARING AND GRUBBING OPERATIONS TO A DISTANCE EQUAL TO TWO TIMES THE LENGTH OF PIPE INSTALLATION...
3. WORK CREWS AND EQUIPMENT FOR TRENCHING, PLACEMENT OF PIPE, PLUG CONSTRUCTION AND BACKFILLING WILL BE SELF CONTAINED AND SEPARATE FROM CLEARING AND GRUBBING AND SITE RESTORATION AND STABILIZATION OPERATIONS...
4. WATER WHICH ACCUMULATES IN THE OPEN TRENCH WILL BE COMPLETELY REMOVED BY PUMPING TO AN APPROVED FACILITY...
5. ON THE DAY FOLLOWING PIPE PLACEMENT AND TRENCH BACKFILLING, THE DISTURBED AREA WILL BE GRADED TO FINAL CONTOURS...
6. CONTINUE WITH THE GALVANIZATION OF UTILITY INSTALLATION (SANITARY, ELECTRIC, TELEPHONE, CABLE, AND GAS) WHERE APPLICABLE...
7. ONCE AREAS AT GRADE ARE STABILIZED WITH A STONE BASE COURSE TO PROVIDE A STABLE ACCESS AND PREVENT EROSION...
8. INSTALL ALL CURBING SHOWN IN THIS PHASE AND INSTALL STONE BASE COURSE IN THE DRIVEWAY AND PARKING AREAS...
9. INITIATE FINAL GRADING AND PLACEMENT OF TOPSOIL IN ALL LANDSCAPE AREAS AS SOON AS SLOPES, CHANNELS, EROSION, AND OTHER DISTURBED AREAS REACH FINAL GRADE...
10. PRIOR TO THE INSTALLATION OF BITUMINOUS PAVEMENT AND CONCRETE IN THE AREAS TRIBUTARY TO THE SUBSURFACE BASINS...
11. INSTALL FINAL VEGETATION AND LANDSCAPING SPECIFIED ON THE LANDSCAPE PLAN...
12. CLEAR SITE OF DEBRIS AND ALL UNWANTED MATERIALS...
13. FLUSH ALL SEDIMENT FROM THE STORM SEWERS...
14. UNLOCK ALL INLETS DRAINING TO THE DRY EXTENDED DETENTION AND CAPTURE AND REUSE FACILITIES...
15. DEMOLITION: A NOTICE OF TERMINATION FORM SHOULD BE SUBMITTED TO THE BUCKS COUNTY CONSERVATION DISTRICT UPON STABILIZATION AND FINAL COMPLETION OF THIS PROJECT.

FILL MATERIALS

IF THE SITE REQUIRES FILL IMPORT, THE RESPONSIBILITY FOR PERFORMING ENVIRONMENTAL DUE DILIGENCE AND THE DETERMINATION OF CLEAN FILL WILL RESIDE WITH THE OPERATOR. CLEAN FILL IS DEFINED AS UNCONTAMINATED, NON-WATER SOLUBLE, NON-BIOCOMPOSTABLE, INERT, SOLID MATERIAL... ENVIRONMENTAL DUE DILIGENCE: INVESTIGATIVE TECHNIQUES, INCLUDING BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY...

GENERAL E&S MAINTENANCE NOTES

- A. COMPOST FILTER SOCKS
1. COMPOST FILTER SOCK INSTALLATION SHOULD BE INSPECTED AFTER EACH RUNOFF EVENT...
2. ACCUMULATED SEDIMENTS WILL BE REMOVED AS REQUIRED TO KEEP THE SOCK FUNCTIONAL...
3. SOCK SECTION WHICH HAS BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET...
B. ROCK CONSTRUCTION ENTRANCE
1. THE STRUCTURES THICKNESS WILL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSION BY ADDING ROCK...
C. BASIN OUTLETS
1. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION...
E. POST CONSTRUCTED STORMWATER MANAGEMENT (BMP)
1. BASINS WILL BE CHECKED ON A REGULAR BASIS FOR DEBRIS BUILDUP (TRASH AND CONSTRUCTION DEBRIS) THAT MAY CAUSE CLOGGING OF ORIFICES WITHIN OUTLET STRUCTURES.

SOIL LEGEND table with columns: SOIL SYMBOL, SOIL NAME, DEPTH TO SEASONAL HIGH WATER TABLE, DEPTH TO RESTRICTIVE FEATURE (NL), HYDROLOGIC GROUP, ALLUVAL, LAND CAPABILITY CLASS

SOIL LIMITATIONS table with columns: SOIL TYPE, DEPTH TO BEDROCK (IN), HYDRIC SOILS, CUTBANKS CARE, CORROSIVE TO CONCRETE, HYDRIC/USHRIC INCLUSIONS, DROUGHT, EASILY ERODIBLE, FLOODING, DEPTH TO SATURATED ZONE/SEASONAL HIGH WATER TABLE, DEPTH TO RESTRICTIVE FEATURE, HYDROLOGIC GROUP, ALLUVAL, LAND CAPABILITY CLASS

SEQUENCE OF CONSTRUCTION

ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED IN COMPLIANCE WITH CHAPTER 102 REGULATIONS BEFORE ANY FOLLOWING STAGE IS INITIATED... CRITICAL STAGE: 4. INITIATE INSTALLATION OF THE SUBSURFACE BASINS... 10. PRIOR TO THE INSTALLATION OF BITUMINOUS PAVEMENT AND CONCRETE... 11. INSTALL FINAL VEGETATION AND LANDSCAPING SPECIFIED ON THE LANDSCAPE PLAN... 12. CLEAR SITE OF DEBRIS AND ALL UNWANTED MATERIALS... 13. FLUSH ALL SEDIMENT FROM THE STORM SEWERS... 14. UNLOCK ALL INLETS DRAINING TO THE DRY EXTENDED DETENTION AND CAPTURE AND REUSE FACILITIES... 15. DEMOLITION... 16. A NOTICE OF TERMINATION FORM SHOULD BE SUBMITTED TO THE BUCKS COUNTY CONSERVATION DISTRICT UPON STABILIZATION AND FINAL COMPLETION OF THIS PROJECT.

BEFORE INITIATING ANY REVISION TO THE APPROVED EROSION AND SEDIMENT CONTROL PLAN OR REVISIONS TO OTHER PLANS WHICH MAY AFFECT THE EFFECTIVENESS OF THE APPROVED E&S CONTROL PLAN, THE OPERATOR MUST RECEIVE APPROVAL OF THE REVISIONS FROM THE BUCKS COUNTY CONSERVATION DISTRICT... ALL CHANGE ORDERS SHALL BE REVIEWED AND APPROVED BY THE TOWNSHIP ENGINEER PRIOR TO ENACTING THE PROPOSED CHANGES.

1. INSTALL CONSTRUCTION ENTRANCE WITH WASH RACK AS DESIGNATED ON THE PLANS... 2. INSTALL ALL PERMETER COMPOST FILTER SOCKS AND INLET PROTECTION WITHIN THE DESIGNATED LIMIT OF DISTURBANCE... 3. ONCE CONSTRUCTION ENTRANCE AND PERMETER CONTROLS ARE INSTALLED, COMMENCE EXISTING BUILDING DEMOLITION PER THE EXISTING CONDITIONS/DEMOLITION PLAN.

SEEDING SPECIFICATIONS TEMPORARY: 3/4 PURE LIVE SEED APPLICATION RATE FERTILIZER TYPE FERTILIZER APPL. RATE LIMEING RATE MULCH TYPE MULCH RATE

PERMANENT: 3/4 PURE LIVE SEED APPLICATION RATE FERTILIZER TYPE FERTILIZER APPL. RATE LIMEING RATE MULCH TYPE MULCH RATE ANCHOR MATERIAL ANCHORING METHOD RATE OF ANCHOR MATERIAL APPL. SEEDING SEASON DATES

ANNUAL RYEGRASS 98% 87.0 LB/ACRE COMMERCIAL 10-20-10 1,100 LB/ACRE 2 1/2 ACRES STRAW 3 T/ACRE

KENTUCKY BLUEGRASS / SPREADING FESCUE / PERENNIAL RYEGRASS / CHEWING'S RED FESCUE 96% 41 / 20 / 14 / 20 LB/ACRE COMMERCIAL 10-20-10 1,100 LB/ACRE 2 1/2 ACRES HAY OR STRAW 3 T/ACRE

APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS MUST BE FOLLOWED IN THE USE, HANDLING, AND DISPOSAL OF POTENTIAL HAZARDOUS MATERIALS... CRITICAL STAGE: 4. INITIATE INSTALLATION OF THE SUBSURFACE BASINS... 10. PRIOR TO THE INSTALLATION OF BITUMINOUS PAVEMENT AND CONCRETE... 11. INSTALL FINAL VEGETATION AND LANDSCAPING SPECIFIED ON THE LANDSCAPE PLAN... 12. CLEAR SITE OF DEBRIS AND ALL UNWANTED MATERIALS... 13. FLUSH ALL SEDIMENT FROM THE STORM SEWERS... 14. UNLOCK ALL INLETS DRAINING TO THE DRY EXTENDED DETENTION AND CAPTURE AND REUSE FACILITIES... 15. DEMOLITION... 16. A NOTICE OF TERMINATION FORM SHOULD BE SUBMITTED TO THE BUCKS COUNTY CONSERVATION DISTRICT UPON STABILIZATION AND FINAL COMPLETION OF THIS PROJECT.

INITIATE FINAL GRADING AND PLACEMENT OF TOPSOIL IN ALL LANDSCAPE AREAS AS SOON AS SLOPES, CHANNELS, EROSION, AND OTHER DISTURBED AREAS REACH FINAL GRADE... PRIOR TO THE INSTALLATION OF BITUMINOUS PAVEMENT AND CONCRETE IN THE AREAS TRIBUTARY TO THE SUBSURFACE BASINS... INSTALL FINAL VEGETATION AND LANDSCAPING SPECIFIED ON THE LANDSCAPE PLAN... CLEAR SITE OF DEBRIS AND ALL UNWANTED MATERIALS... FLUSH ALL SEDIMENT FROM THE STORM SEWERS... UNLOCK ALL INLETS DRAINING TO THE DRY EXTENDED DETENTION AND CAPTURE AND REUSE FACILITIES... DEMOLITION... NOTICE OF TERMINATION FORM SHOULD BE SUBMITTED TO THE BUCKS COUNTY CONSERVATION DISTRICT UPON STABILIZATION AND FINAL COMPLETION OF THIS PROJECT.

10. PRIOR TO THE INSTALLATION OF BITUMINOUS PAVEMENT AND CONCRETE IN THE AREAS TRIBUTARY TO THE SUBSURFACE BASINS... 11. INSTALL FINAL VEGETATION AND LANDSCAPING SPECIFIED ON THE LANDSCAPE PLAN... 12. CLEAR SITE OF DEBRIS AND ALL UNWANTED MATERIALS... 13. FLUSH ALL SEDIMENT FROM THE STORM SEWERS... 14. UNLOCK ALL INLETS DRAINING TO THE DRY EXTENDED DETENTION AND CAPTURE AND REUSE FACILITIES... 15. DEMOLITION... 16. A NOTICE OF TERMINATION FORM SHOULD BE SUBMITTED TO THE BUCKS COUNTY CONSERVATION DISTRICT UPON STABILIZATION AND FINAL COMPLETION OF THIS PROJECT.

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E&S PLAN PLANNING & DESIGN NOTES

- 1. THE CONTRACTOR SHALL MINIMIZE THE EXTENT AND DURATION OF THE EARTH DISTURBANCE BY LIMITING THE CLEARING, GRUBBING, AND TOPSOIL STRIPPING TO AREAS IN EACH PHASE OF THE CONSTRUCTION SEQUENCE...
2. E&S BMPs MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THE TRIBUTARY AREAS...
3. TO MINIMIZE SOIL COMPACTION, NO LAND CLEARING AND/OR GRADING SHALL BE PERFORMED OUTSIDE OF LIMIT OF DISTURBANCE...
4. THERE ARE NO EXISTING/PROPOSED RIPARIAN BUFFERS OR RIPARIAN FOREST BUFFERS WITHIN OR OUTSIDE THE LIMITS OF DISTURBANCE...
5. THE SITE IS LOCATED WITHIN THE NESHAMINY CREEK WATERSHED STORMWATER RUNOFF GENERATED FROM THIS PROJECT FLOWS TO TRIBUTARY 02805 OF PINE RUN...
6. THE SITE IS NOT LOCATED WITHIN A H2/EV WATERSHED.

SEEDING SPECIFICATIONS

TEMPORARY: 3/4 PURE LIVE SEED APPLICATION RATE FERTILIZER TYPE FERTILIZER APPL. RATE LIMEING RATE MULCH TYPE MULCH RATE

PERMANENT: 3/4 PURE LIVE SEED APPLICATION RATE FERTILIZER TYPE FERTILIZER APPL. RATE LIMEING RATE MULCH TYPE MULCH RATE ANCHOR MATERIAL ANCHORING METHOD RATE OF ANCHOR MATERIAL APPL. SEEDING SEASON DATES

ANNUAL RYEGRASS 98% 87.0 LB/ACRE COMMERCIAL 10-20-10 1,100 LB/ACRE 2 1/2 ACRES STRAW 3 T/ACRE

KENTUCKY BLUEGRASS / SPREADING FESCUE / PERENNIAL RYEGRASS / CHEWING'S RED FESCUE 96% 41 / 20 / 14 / 20 LB/ACRE COMMERCIAL 10-20-10 1,100 LB/ACRE 2 1/2 ACRES HAY OR STRAW 3 T/ACRE

APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS MUST BE FOLLOWED IN THE USE, HANDLING, AND DISPOSAL OF POTENTIAL HAZARDOUS MATERIALS... CRITICAL STAGE: 4. INITIATE INSTALLATION OF THE SUBSURFACE BASINS... 10. PRIOR TO THE INSTALLATION OF BITUMINOUS PAVEMENT AND CONCRETE... 11. INSTALL FINAL VEGETATION AND LANDSCAPING SPECIFIED ON THE LANDSCAPE PLAN... 12. CLEAR SITE OF DEBRIS AND ALL UNWANTED MATERIALS... 13. FLUSH ALL SEDIMENT FROM THE STORM SEWERS... 14. UNLOCK ALL INLETS DRAINING TO THE DRY EXTENDED DETENTION AND CAPTURE AND REUSE FACILITIES... 15. DEMOLITION... 16. A NOTICE OF TERMINATION FORM SHOULD BE SUBMITTED TO THE BUCKS COUNTY CONSERVATION DISTRICT UPON STABILIZATION AND FINAL COMPLETION OF THIS PROJECT.

INITIATE FINAL GRADING AND PLACEMENT OF TOPSOIL IN ALL LANDSCAPE AREAS AS SOON AS SLOPES, CHANNELS, EROSION, AND OTHER DISTURBED AREAS REACH FINAL GRADE... PRIOR TO THE INSTALLATION OF BITUMINOUS PAVEMENT AND CONCRETE IN THE AREAS TRIBUTARY TO THE SUBSURFACE BASINS... INSTALL FINAL VEGETATION AND LANDSCAPING SPECIFIED ON THE LANDSCAPE PLAN... CLEAR SITE OF DEBRIS AND ALL UNWANTED MATERIALS... FLUSH ALL SEDIMENT FROM THE STORM SEWERS... UNLOCK ALL INLETS DRAINING TO THE DRY EXTENDED DETENTION AND CAPTURE AND REUSE FACILITIES... DEMOLITION... NOTICE OF TERMINATION FORM SHOULD BE SUBMITTED TO THE BUCKS COUNTY CONSERVATION DISTRICT UPON STABILIZATION AND FINAL COMPLETION OF THIS PROJECT.

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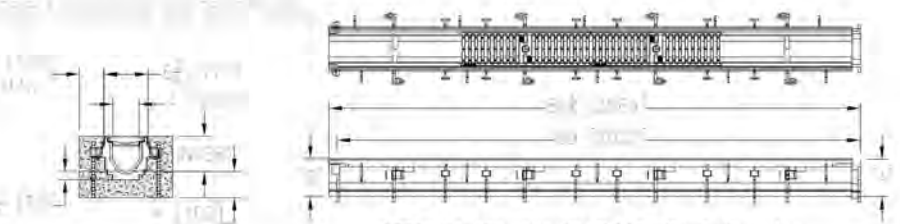
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Design and Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice



NOTE: Actual channel length is 61 1/4 [2064] in. Allow for overlap.

ENGINEERING SPECIFICATION: Zurn Z886-HD Channels are 60" [2032 mm] long, 6-3/4" [171 mm] wide reveal and have a 4" [102 mm] throat. Modular channel sections are made of 100% water absorbent High Density Polyethylene (HDPE). Channels have a positive mechanical connection between channel sections that will not separate during the installation and mechanically lock into the concrete surround every 10" [254 mm]. Channels weigh less than 2.31 lbs [1.05 kg] per linear foot, have a smooth, 1-1/2" [38 mm] radius self-cleaning bottom with a Manning's coefficient of .009 and .75% or greater 1% built in slope. Channels have ribbed clips standard to secure trench in its final location. Channels provided with standard DGC grates that lock down to frame. Zurn 5.375" [137 mm] wide reveal Ductile Iron Slotted Grate conforming to ASTM specification A536-84, Grade 80-55-06. Ductile iron grate is rated class C per the DIN EN1433 top load classifications. Supplied in 20' [608 mm] nominal lengths with 1/2" [13 mm] wide slots, and 3/4" [19 mm] bearing depth. Grate has an open area of 28.1 sq. in. per ft. [90.463 sq. mm per meter]. The 105" [2.67 mm] thick Heavy-Duty Carbon Steel Frame Assembly conforms to ASTM specification A36 with 10 - 4" [102 mm] long concrete anchors per 80" [2032 mm]. Grate lockdown bars are to be integral to the frame. Frame supplied with powder coated finish. All welds must be performed by a certified welder per ASTM standard AWS D1.1. Frames produced in the U.S.A.

PREFIX OPTIONS (Check/specify appropriate options)
Z Slot-Fit, Eight-Inch High Density Polyethylene (HDPE)*

SUFFIX OPTIONS (Check/specify appropriate options)
Outlet Adapters Add/Each
---E1 Closed End Cap ---U2 2 (511) No-Hub Bottom Outlet
---E2 2 (511) No-Hub End Outlet ---U3 3 (782) No-Hub Bottom Outlet
---E3 3 (782) No-Hub End Outlet ---U4 4 (1022) No-Hub Bottom Outlet
---E4 4 (1022) No-Hub End Outlet ---U6 6 (1522) No-Hub Bottom Outlet
---E6 6 (1522) No-Hub End Outlet

Frame Options
---CBF Black Acid Resistant Coated Top Frame
---LD Light Duty Grates on Heavy Duty Frame
---SW Sidewall Extension - 9 (229) High
---SW2 Sidewall Extension - 18 (457) High

Grate Options (Load Classifications are per DIN EN1433)
---BDC Black Acid Resistant Epoxy Coated Ductile Grate - Class C
---BDE Black Acid Resistant Epoxy Coated Ductile Grate - Class E
---BG Galvanized Ductile Iron Bar Grate - Class C
---DBG Ductile Iron Cast Bar Grate - Class C
---DC Ductile Iron Solid Cover - Class C
---DGC Ductile Iron Slotted Grate - Class C*
---DGE Ductile Iron Slotted Grate - Class E
---DDC Galvanized Ductile Iron Slotted Grate - Class C
---GDE Galvanized Ductile Iron Slotted Grate - Class E
---GHPDE Galvanized Heel-Proof Ductile Grate - Class E
---HPDE Heel-Proof Ductile Slotted Grate - Class E
---RFGC Reinforced Slotted Galvanized Grate - Class C
---RFGC Reinforced Slotted Stainless Steel Grate - Class C
---RPGC Reinforced Perforated Galvanized Grate - Class C
---RPGC Reinforced Perforated Stainless Steel Grate - Class C
---RPGC Reinforced Galvanized Perforated Reverse Punch Grate - Class C
---RPGC Reinforced Perforated Stainless Steel Grate - Class C
---RPGC Reinforced Perforated Stainless Steel Reverse Punch Grate - Class C

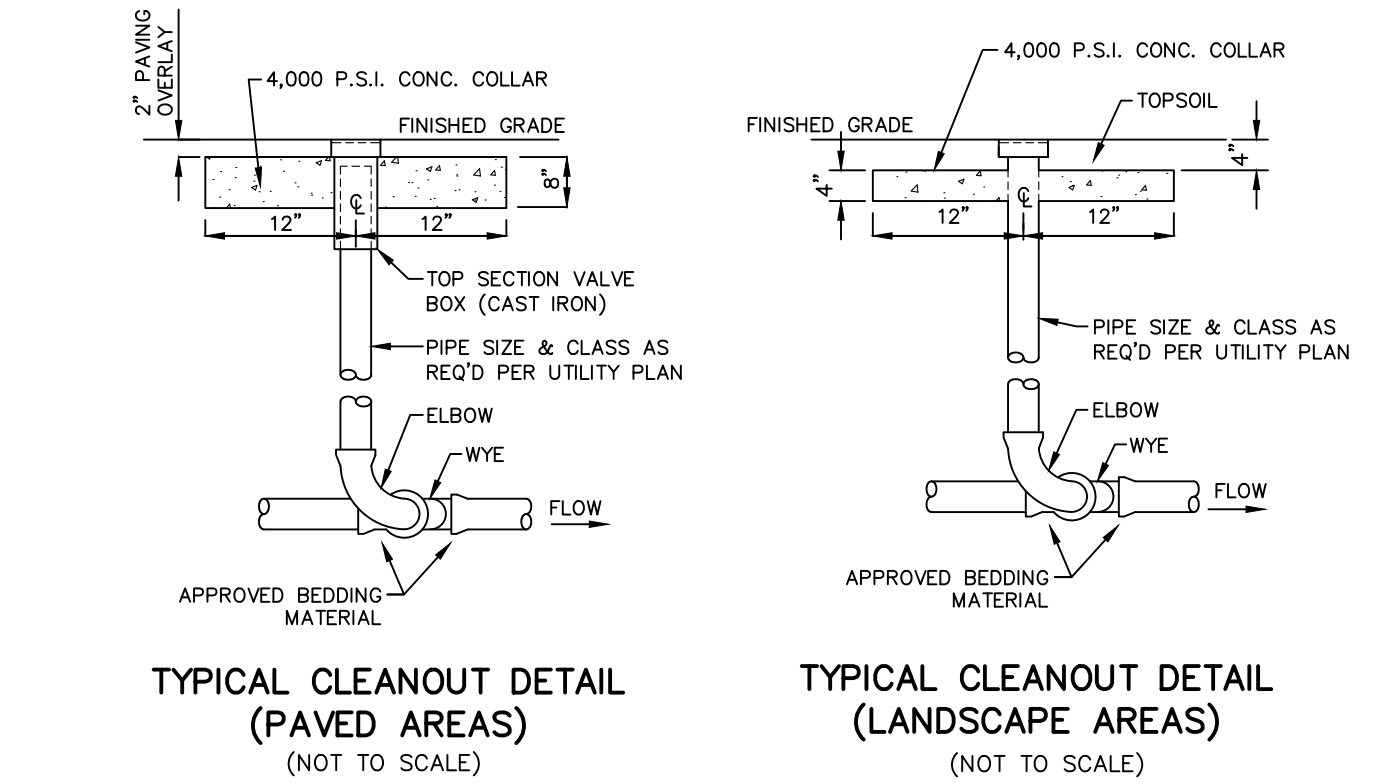
Miscellaneous Options
---DB Bottom Dome Strainer
---JC Joint Connector
---VP Vandal-Proof Lockdown

Decorative Grate Options (Load Classifications are per DIN EN1433)
---DTW Decorative Tidal Wave Grate - Class C
---SBG Stainless Steel Bar Grate - Class E

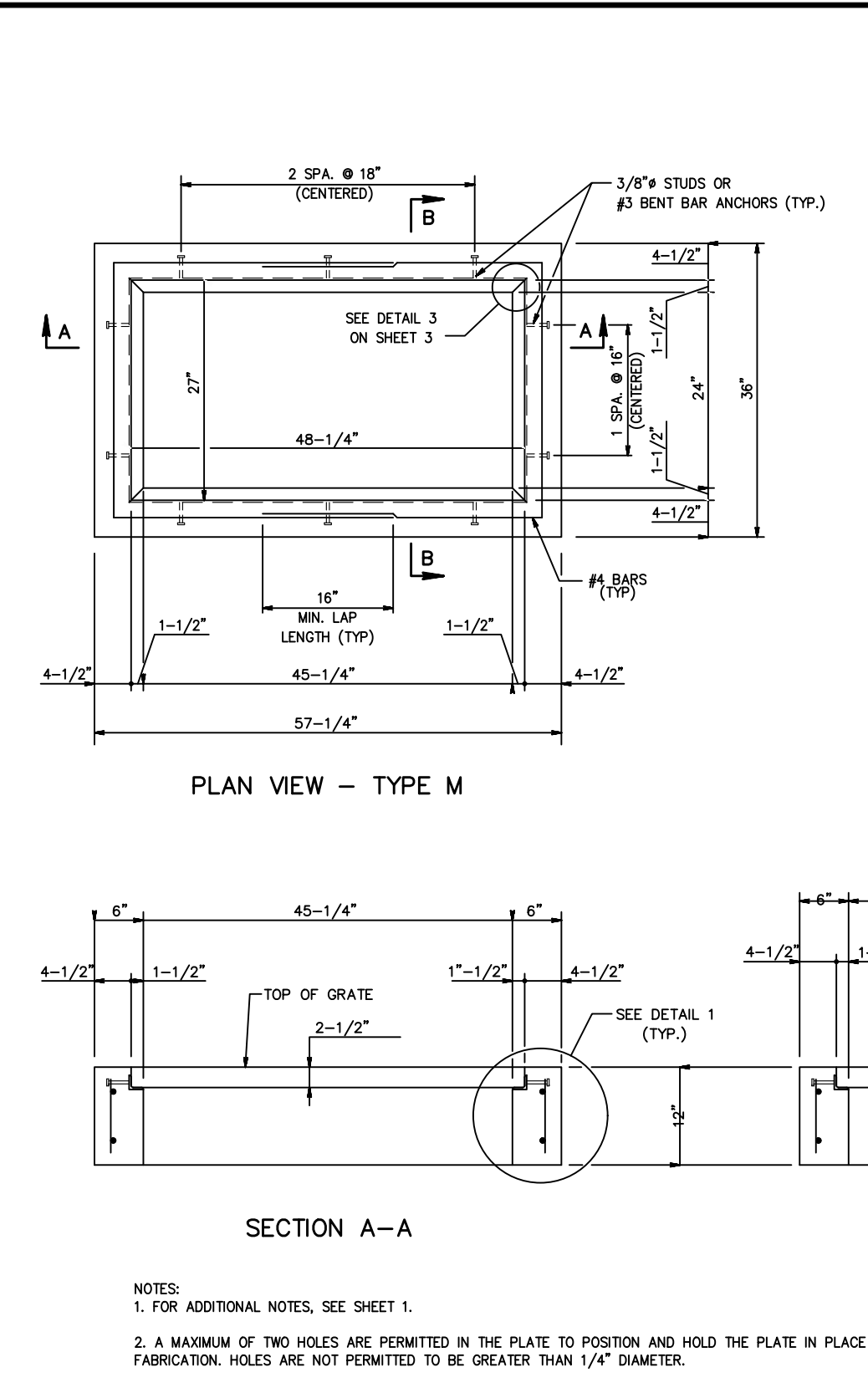
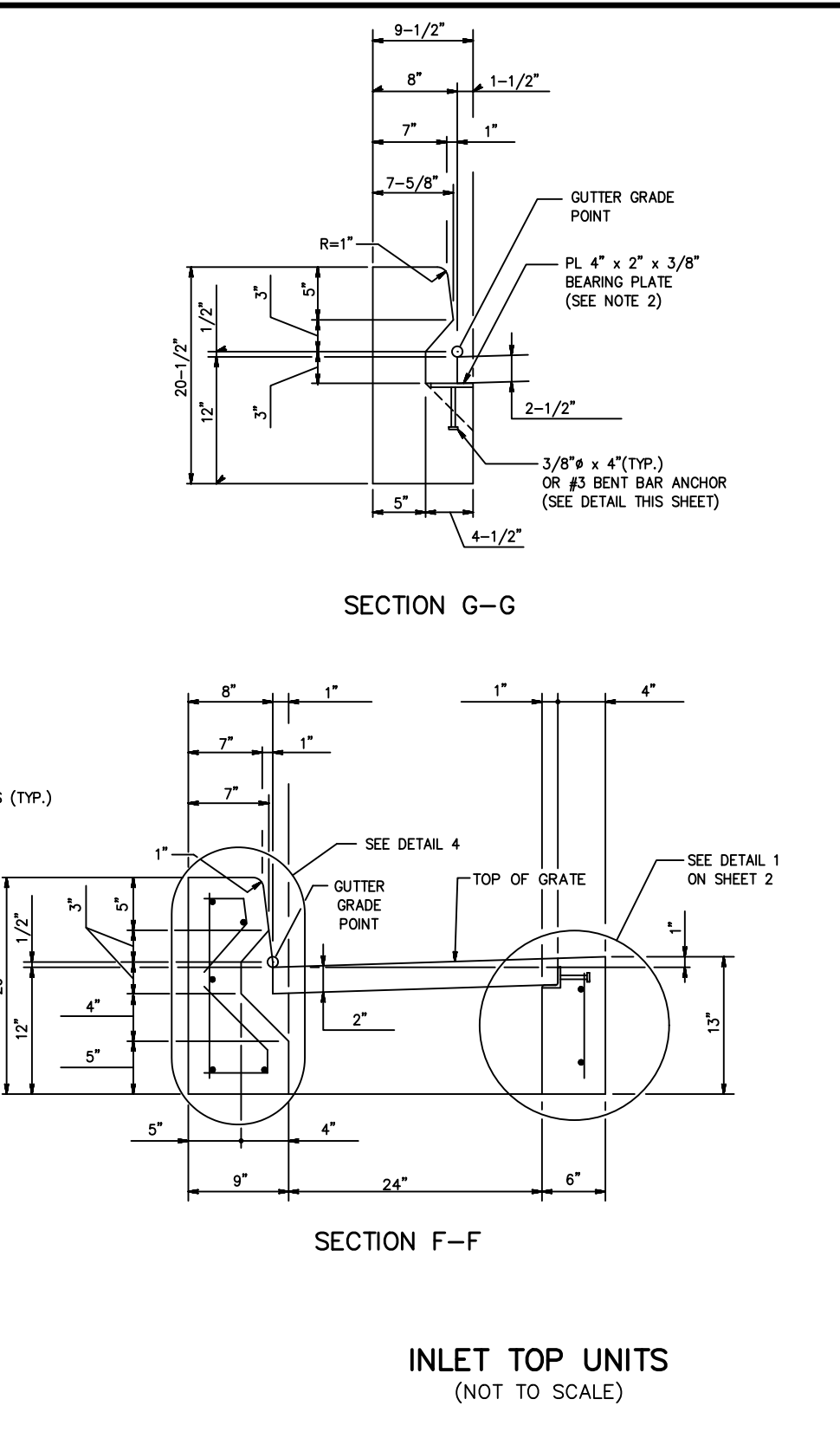
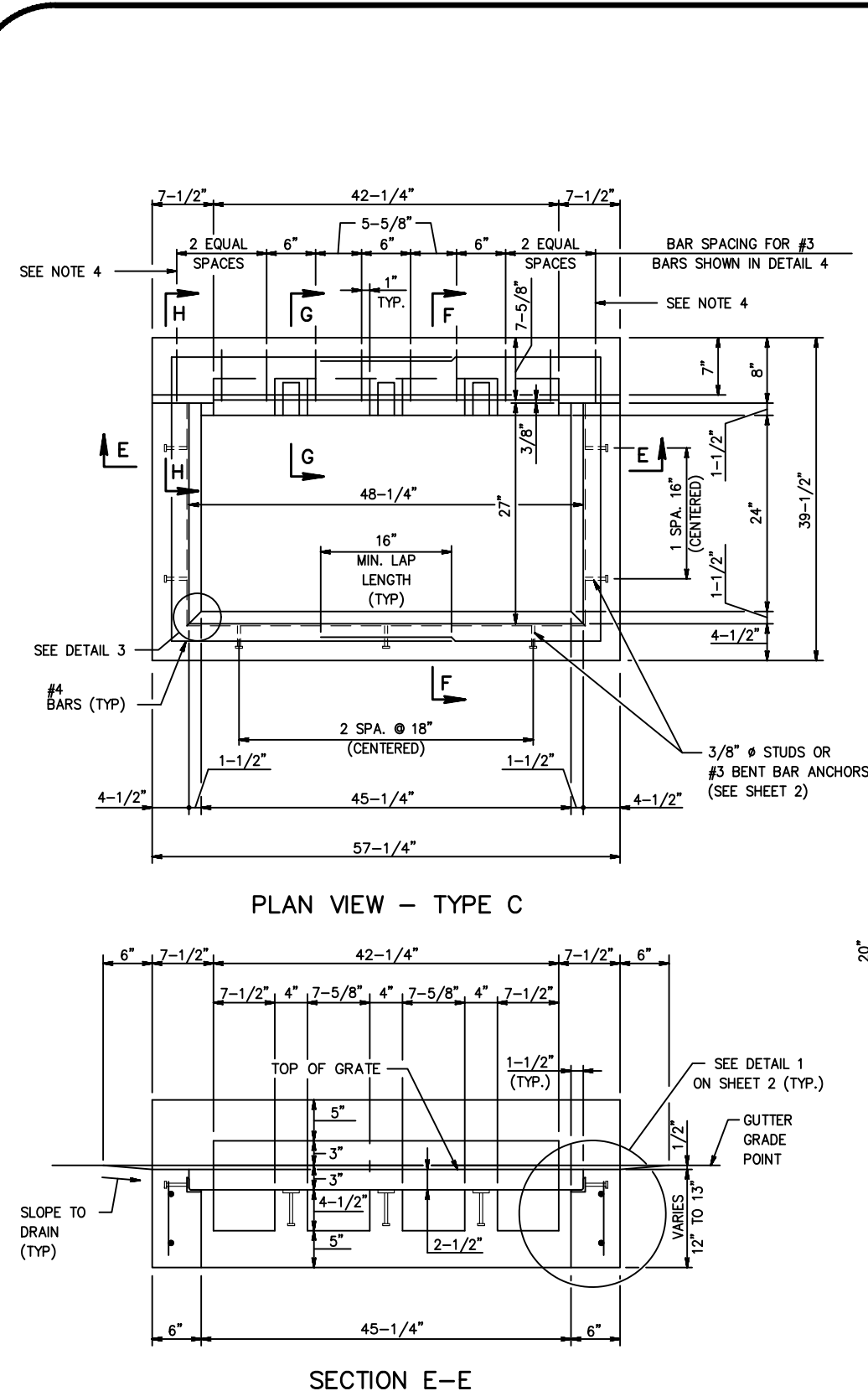
MADE in the U.S.A. (Load Classifications are per DIN EN 1433)
---BDE-USA Black Acid Resistant Epoxy Coated Ductile Grate - Class E
---DGC-USA Ductile Iron Slotted Grate - Class C
---DGE-USA Ductile Iron Slotted Grate - Class E
---DGE-USA Galvanized Ductile Slotted Grate - Class C
---GDE-USA Galvanized Ductile Slotted Grate - Class C
---GHPDE-USA Galvanized Heel-Proof Ductile Grate - Class E
---HPDE-USA Heel-Proof Ductile Slotted Grate - Class E
---PPC Plastic Perforated Grate - Class B

* Regularly furnished unless otherwise specified
⚠ **WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov
⚠ **ADVERTENCIA:** Cáncer y daño reproductivo - www.P65Warnings.ca.gov
⚠ **AVERTISSEMENT:** Cancer et effets néfastes sur la reproduction - www.P65Warnings.ca.gov

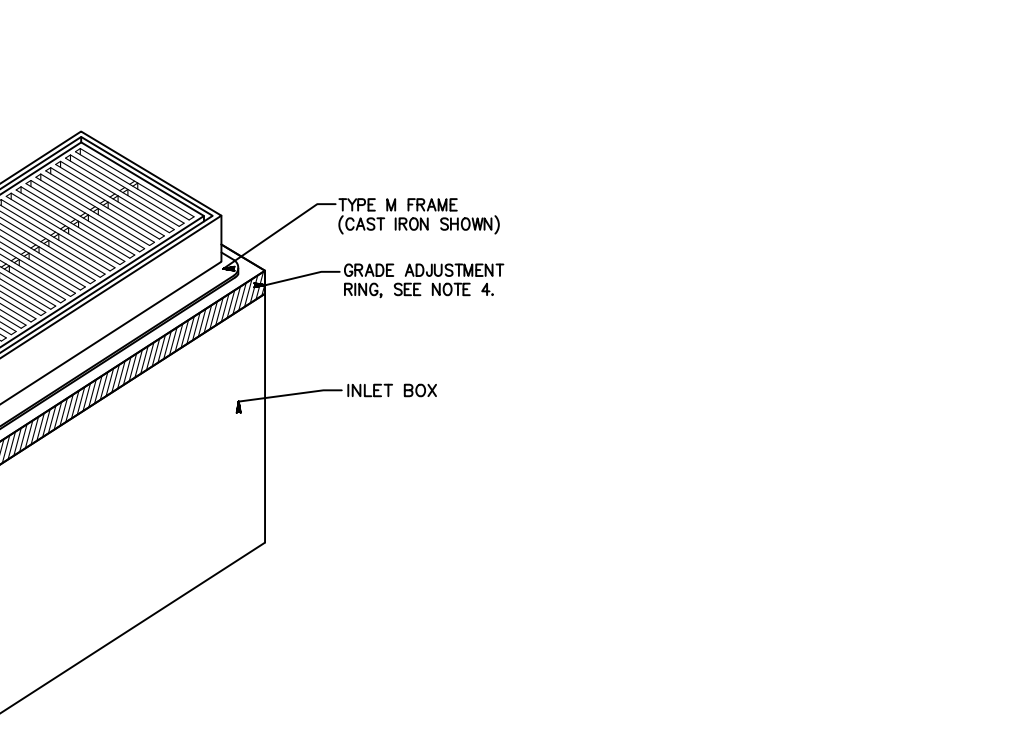
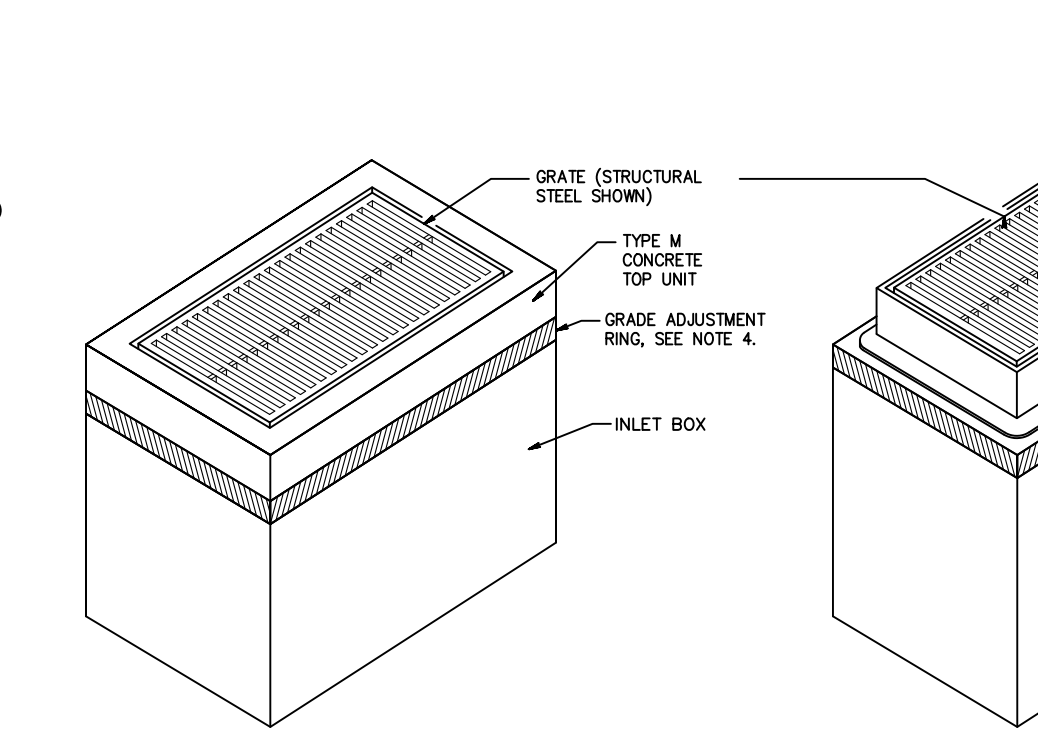
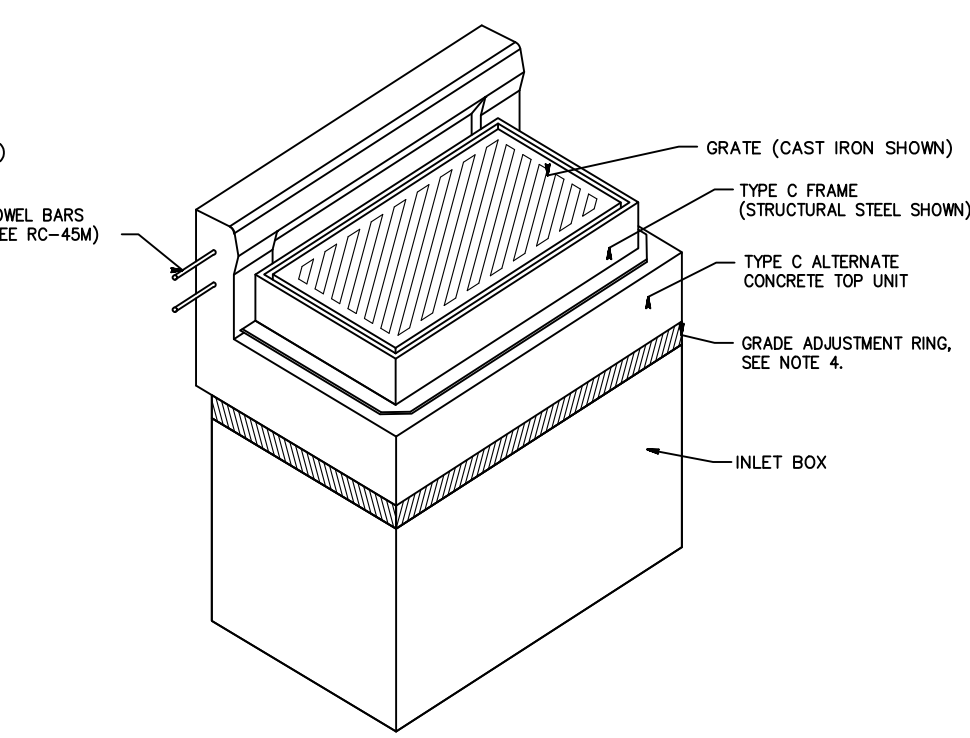
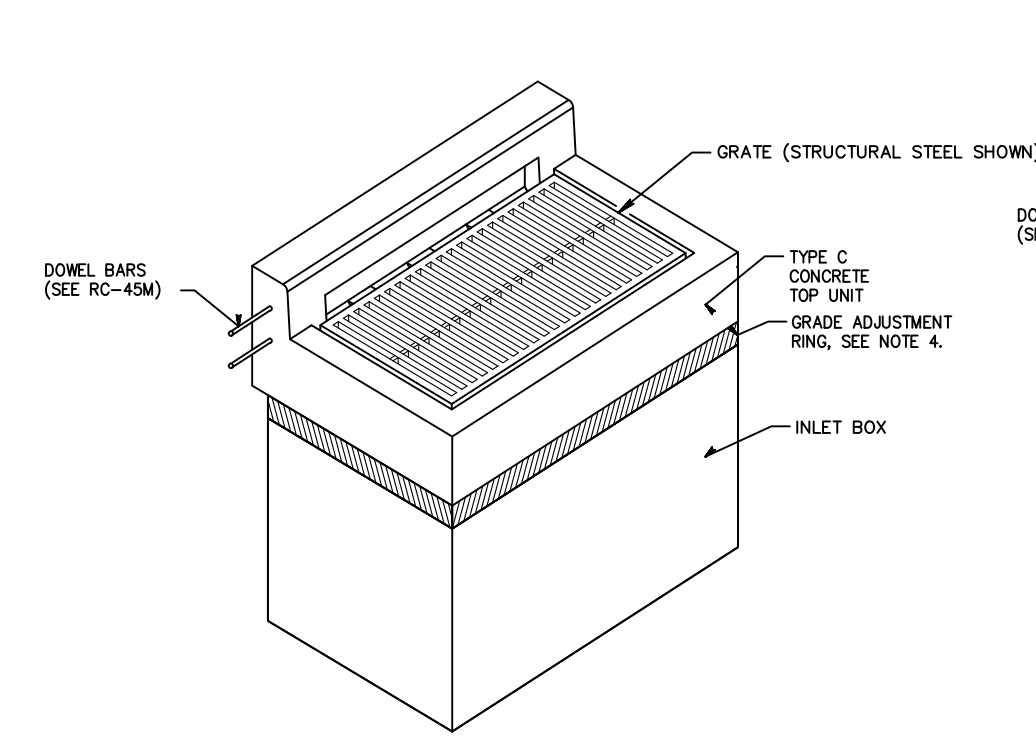
Zurn Industries, LLC | Specification Drainage Operation
1801 Pittsburgh Avenue, Erie, PA 16502, Ph. 855.663.9878
In Canada | Zurn Industries Limited
7900 Goreway Drive, Unit 10, Brampton, Ontario L6T 3W6, Ph. 877.392.5216
www.zurn.com



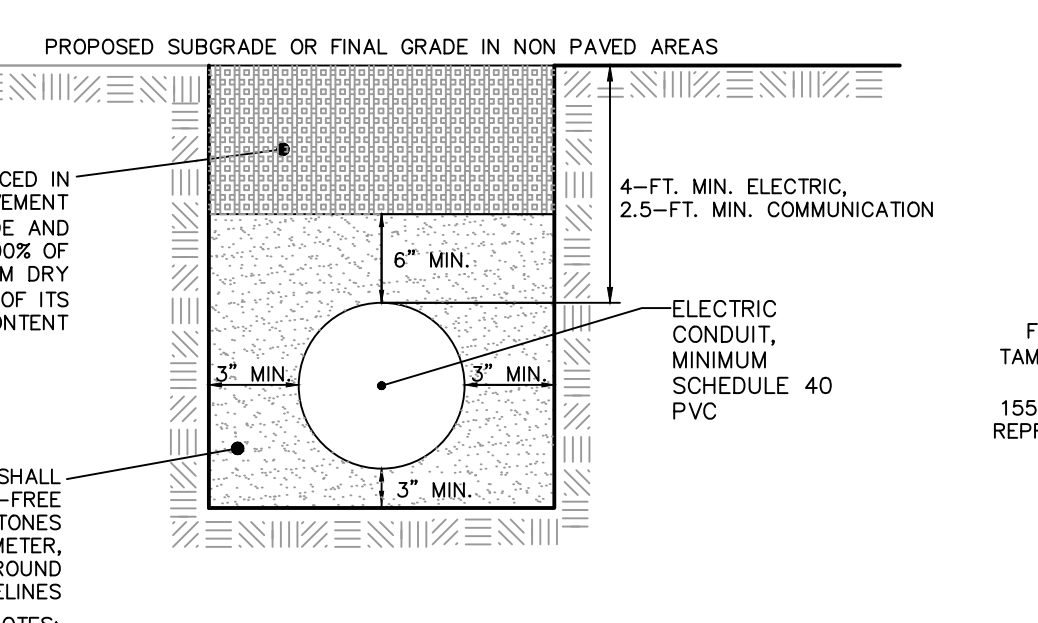
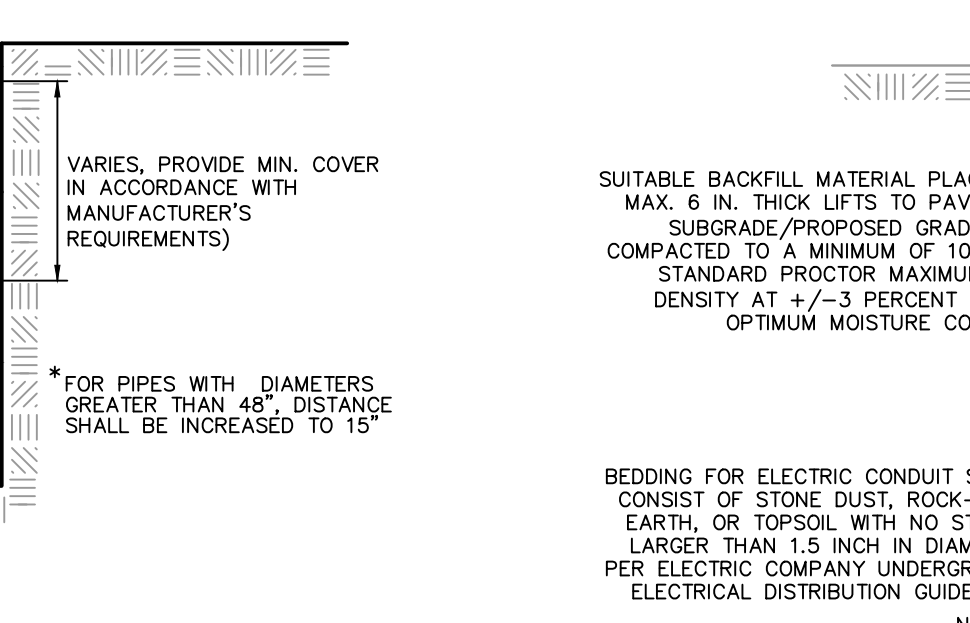
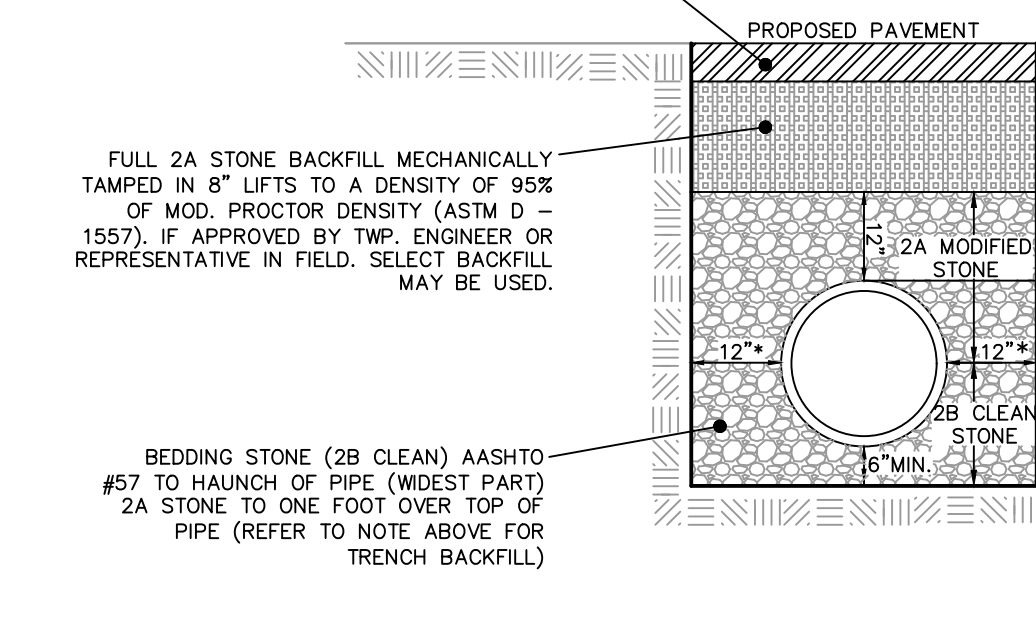
TYPICAL CLEANOUT DETAIL (PAVED AREAS) (NOT TO SCALE)
TYPICAL CLEANOUT DETAIL (LANDSCAPE AREAS) (NOT TO SCALE)



NOTES:
1. FOR ADDITIONAL NOTES, SEE SHEET 1.
2. A MAXIMUM OF TWO HOLES ARE PERMITTED IN THE PLATE TO POSITION AND HOLD THE PLATE IN PLACE DURING FABRICATION. HOLES ARE NOT PERMITTED TO BE GREATER THAN 1/4" DIAMETER.
3. FABRICATOR TO DETERMINE NUMBER OF BARS REQUIRED TO MATCH SHAPE INDICATED. PROVIDE ONE, TWO, OR THREE BARS AS REQUIRED.
4. BEND OUTSIDE STIRRUP TO ACCOMMODATE DOWEL BARS AND STILL MAINTAIN CLEARANCE REQUIREMENTS.



CONCRETE TOP UNIT - TYPE C
CONCRETE TOP UNIT - TYPE C ALTERNATE WITH TYPE C FRAME
CONCRETE TOP UNIT - TYPE M
INLET BOX WITH TYPE M FRAME



NOTES:
1. ALL UTILITY TRENCHES WITHIN EXISTING ROADWAYS, PROPOSED ROADWAYS, ALL RIGHT OF WAYS, EASEMENTS, PROPOSED DRIVEWAYS, APRONS AND SIDEWALKS MUST, WITHOUT EXCEPTION, BE BACKFILLED WITH FULL DEPTH 2A MODIFIED STONE AFTER TOP SCREENING. ALL UTILITY TRENCHES MUST BE COMPACTED (MECHANICALLY TAMPED) IN 8" LIFTS.
2. TRENCHES WITHIN EXISTING ROADWAYS MUST, WITHOUT EXCEPTION, BE BACKFILLED WITH FULL DEPTH 2A STONE.

NOTES:
1. FINAL CONDUIT CONFIGURATION TO BE SPECIFIC BY THE TELEPHONE AND/OR ELECTRIC COMPANY DESIGNS FOR THE SITE, BY OTHERS.
2. A 0.25 IN. HIGH STRENGTH PULL ROPE SHALL BE INSTALLED FOR BOTH ELECTRIC AND COMMUNICATION SERVICES.
3. PROVIDE MINIMUM 6-IN. HORIZONTAL SEPARATION BETWEEN CONDUITS IN COMMON TRENCHES, IF NECESSARY.
4. PROVIDE WARNING/IDENTIFICATION TAPE 12-INCHES FROM SURFACE OVER TOP OF CONDUIT, OR IN ACCORDANCE WITH UTILITY PROVIDER REQUIREMENTS.

NOTES:
1. ALL UTILITY TRENCHES WITHIN EXISTING ROADWAYS, PROPOSED ROADWAYS, ALL RIGHT OF WAYS, EASEMENTS, PROPOSED DRIVEWAYS, APRONS AND SIDEWALKS MUST, WITHOUT EXCEPTION, BE BACKFILLED WITH FULL DEPTH 2A MODIFIED STONE AFTER TOP SCREENING. ALL UTILITY TRENCHES MUST BE COMPACTED (MECHANICALLY TAMPED) IN 8" LIFTS.

STORM SEWER TRENCH RESTORATION DETAIL WITHIN PAVEMENT AREAS (NOT TO SCALE)

ELECTRIC AND COMMUNICATION LINE TRENCH RESTORATION DETAIL (NOT TO SCALE)

STORM TRENCH RESTORATION DETAIL WITHIN LAWN AREAS (NOT TO SCALE)

Trench No.	'A' Shallow Inv.	'B' Deep Inv.	Flow (cfs)	Flow (gpm)	Flow (fps)
8601	3.50 [89]	4.10 [104]	0.21	83	6
8602	4.10 [104]	4.70 [119]	0.27	122	8
8603	4.70 [119]	5.30 [135]	0.34	152	10
8603N	5.30 [135]	5.90 [150]	-	-	-
8604	5.90 [150]	6.50 [165]	0.41	163	12
8605	6.50 [165]	7.10 [180]	0.48	214	13
8606	7.10 [180]	7.70 [195]	0.55	245	15
8608N	7.70 [195]	8.30 [211]	-	-	-
8607	8.30 [211]	8.90 [226]	0.62	276	17
8608	8.90 [226]	9.50 [241]	0.69	308	19
8609	9.50 [241]	10.10 [257]	0.76	339	21
8610	10.10 [257]	10.70 [272]	0.83	371	23
8611	10.70 [272]	11.30 [287]	0.90	403	25
8612	11.30 [287]	11.90 [302]	0.97	435	27
8612N	11.90 [302]	12.50 [318]	-	-	-
8613	12.50 [318]	13.10 [333]	1.04	467	29
8614	13.10 [333]	13.70 [348]	1.11	498	31
8615	13.70 [348]	14.30 [363]	1.18	530	33

REV/DESCRIPTION AUTH DATE

SERIAL NO. _____
Before You Dig Anywhere
811 PENNSYLVANIA
Know what's below. STOP CALL 1-800-242-2776
Call before you dig. PA Law requires 3 working days notice before any excavation.
PA ONE CALL SYSTEM INC.

PLAN NOTATION
ONLY THOSE PLANS WHICH CONTAIN A DIGITAL IMPRESSED, OR COLORED INK SEAL OF THE RESPONSIBLE PROFESSIONAL SHALL BE CONSIDERED VALID. THIS PLAN HAS BEEN SPECIFICALLY PREPARED FOR THE OWNER DESIGNATED HEREON. ANY MODIFICATION, REVISION, DUPLICATION OR USE WITHOUT THE WRITTEN CONSENT OF VAN CLEEF ENGINEERING ASSOCIATES IS PROHIBITED. RELIANCE ON THIS PLAN FOR ANY PURPOSE OTHER THAN THAT WHICH IS INTENDED SHALL BE AT THE SOLE DISCRETION AND LIABILITY OF THE APPLICABLE PARTY.

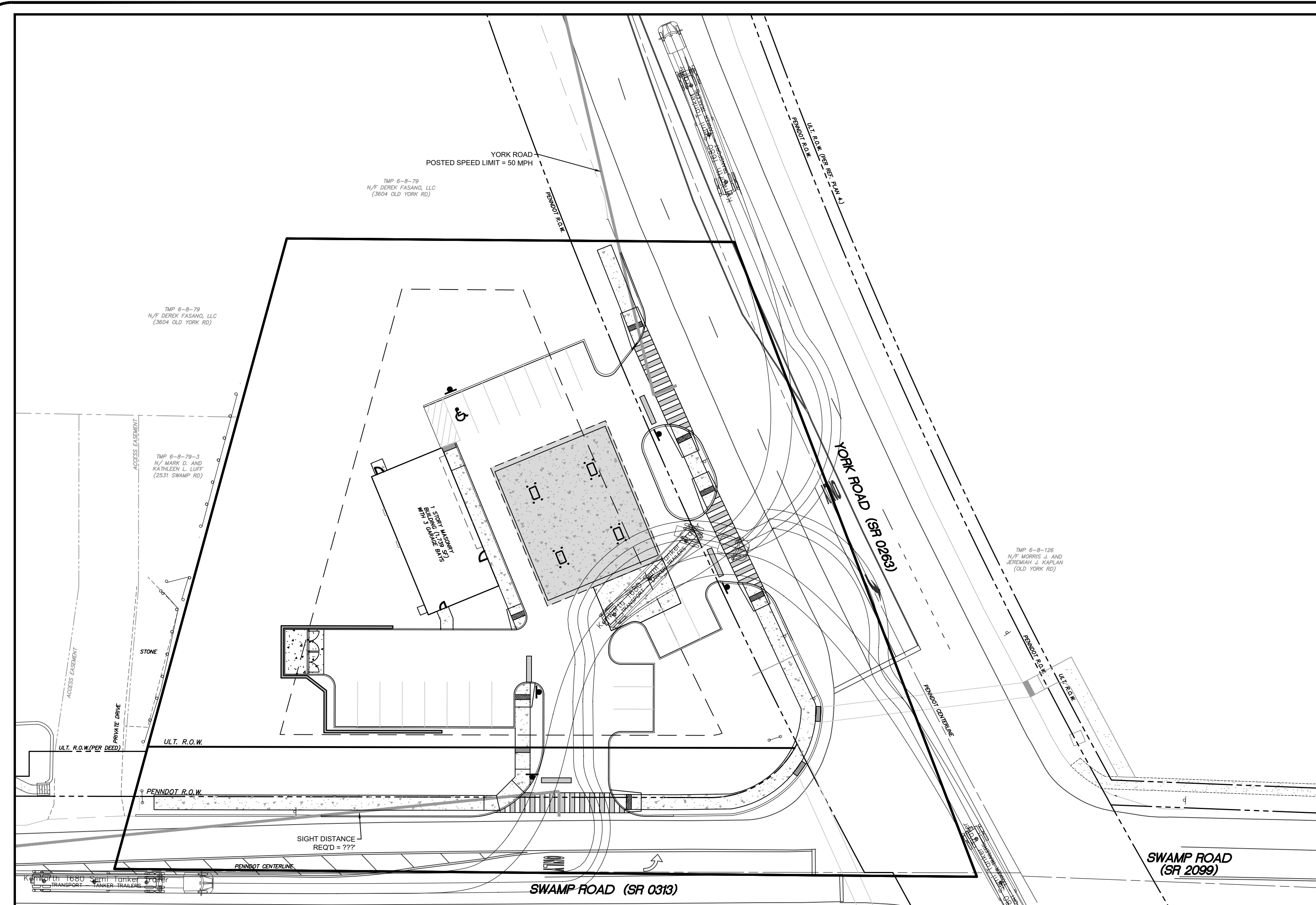
JEFFREY PAUL DOWNEY DATE
PENNSYLVANIA PROFESSIONAL ENGINEER NUMBER 08590

Van Cleef
ENGINEERING WITH FOCUS
VAN CLEEF ENGINEERING ASSOCIATES, LLC
501 NORTH MAIN STREET, DOYLESTOWN, PA 18041
WEB: WWW.VANCLEEFENGINEERING.COM
PHONE: (610) 344-1874

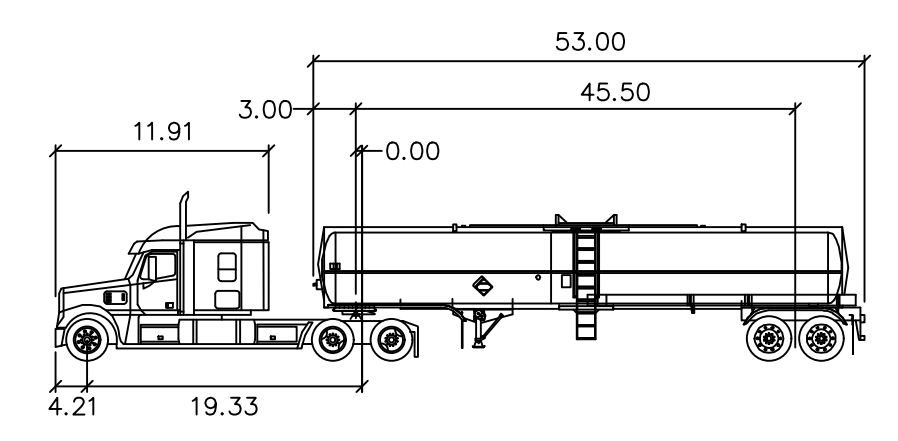
CONSTRUCTION DETAILS
FOR
RAMOCO FUELS
DATE: OCTOBER 11, 2024
SCALE: AS NOTED
DESIGNED BY: JTB
DRAWN BY: ENP
CHECKED BY: SDM
JOB NUMBER: 2302-BK

TMP: 06-008-079-002

BUCKINGHAM TOWNSHIP
BUCKS COUNTY, PENNSYLVANIA

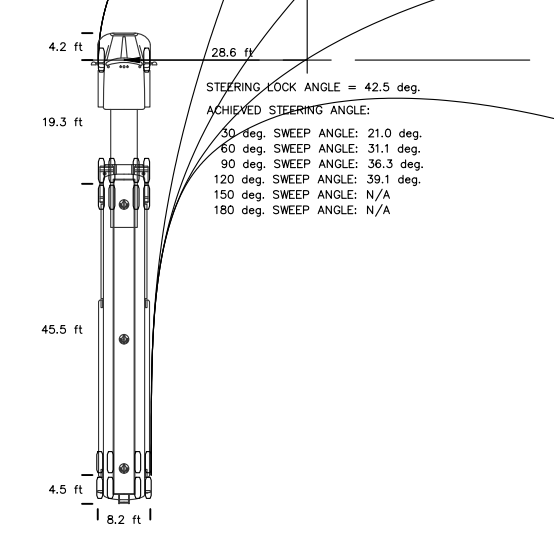


PROPOSED SEMI TANKER CIRCULATION DETAIL
 SCALE: 1" = 30'

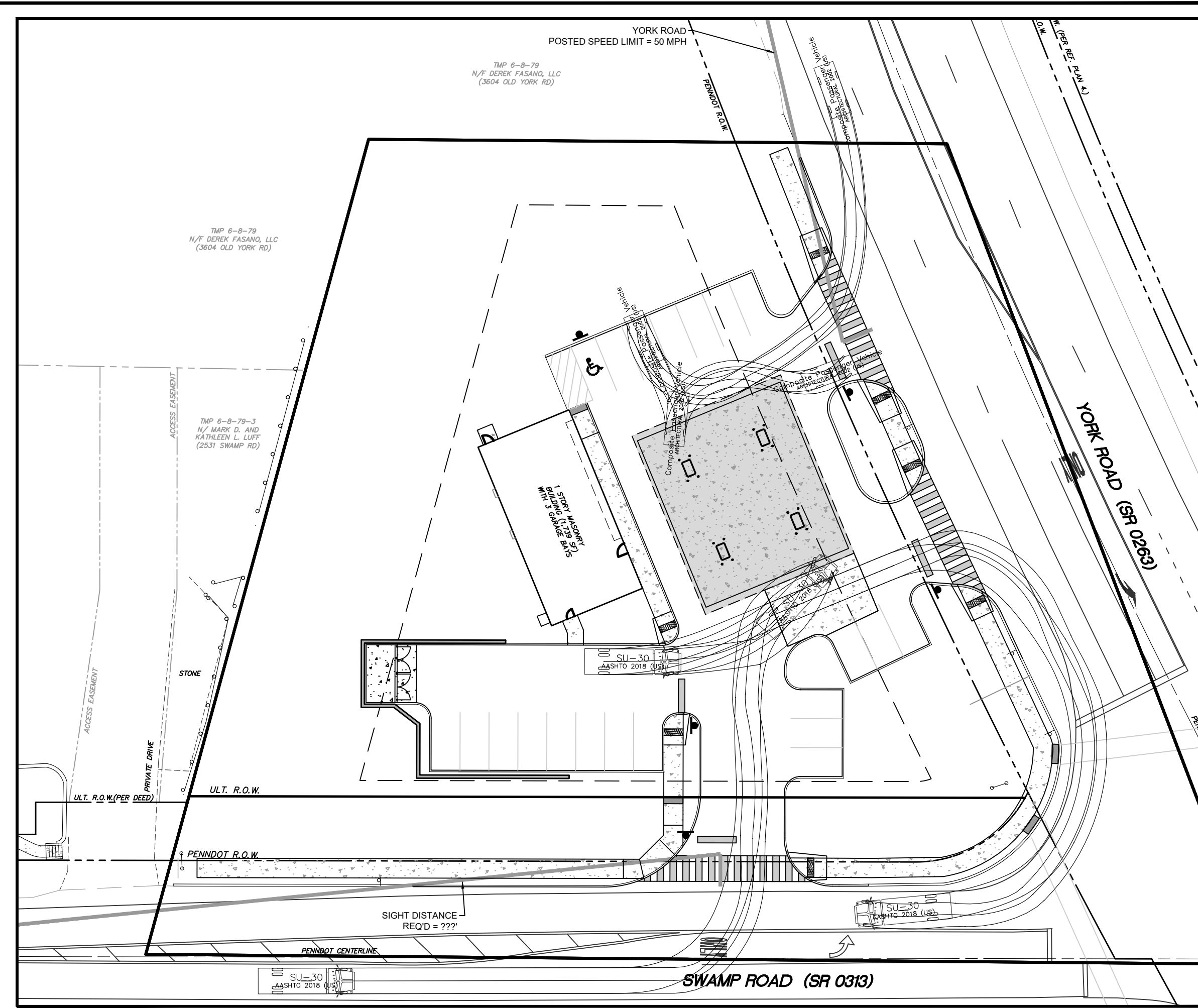


Kenworth T680 Semi Tanker Trailer

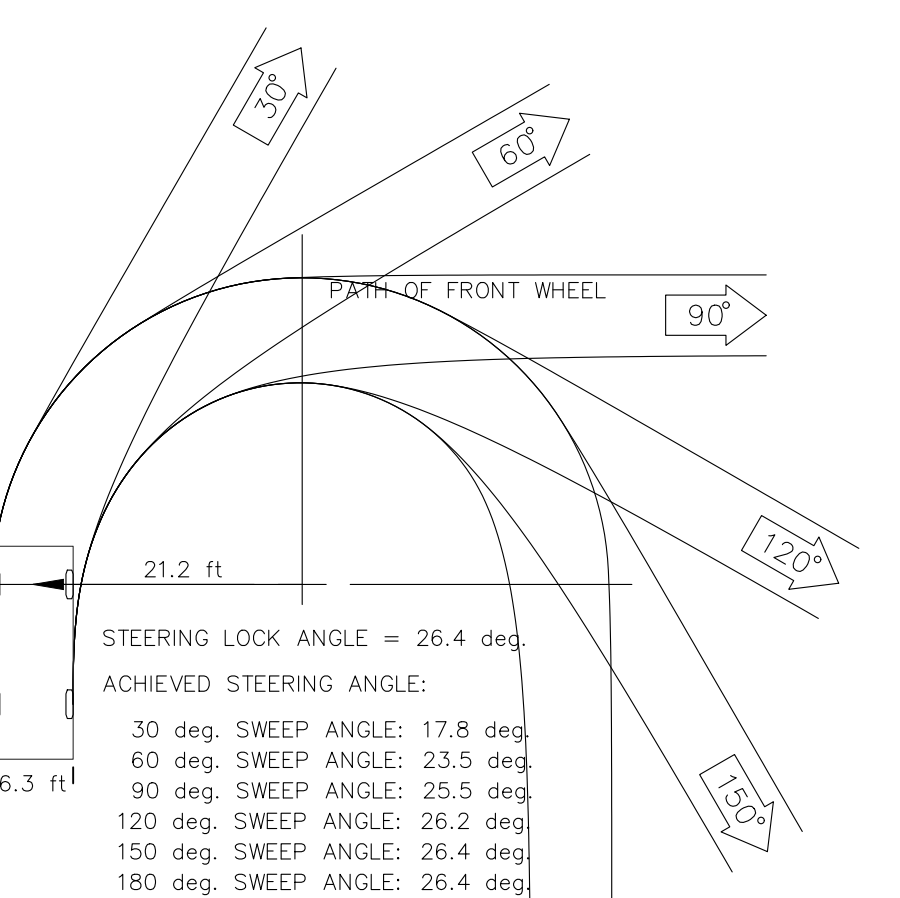
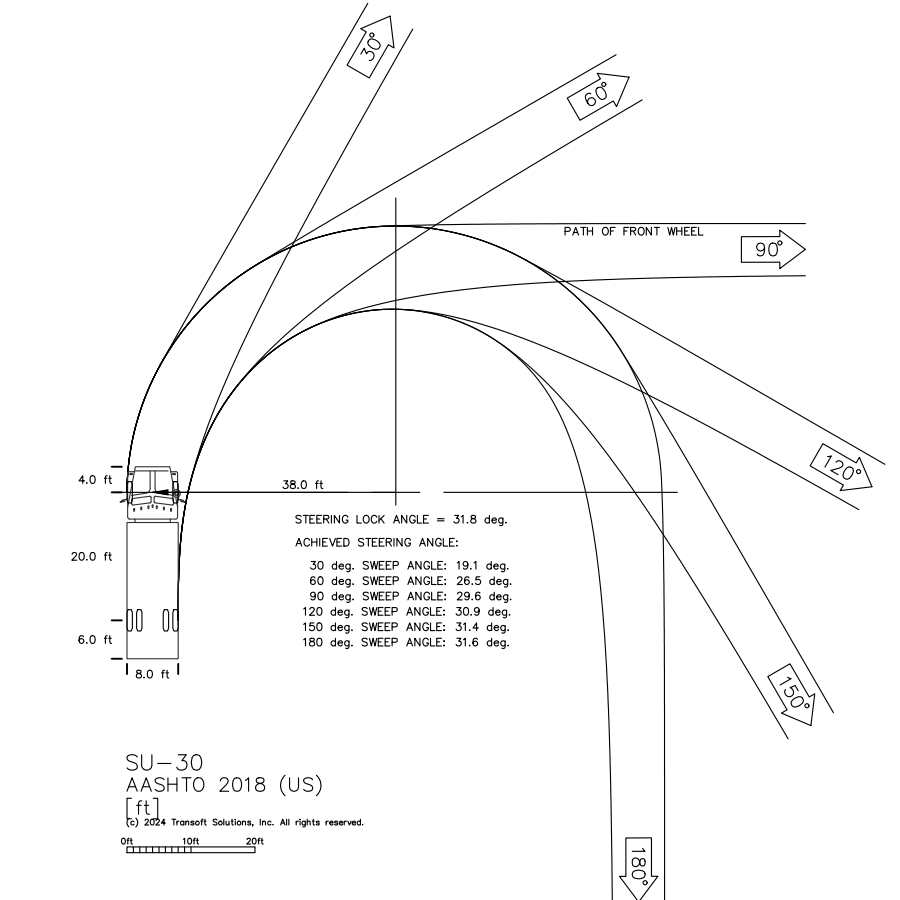
feet			
Tractor Width	: 8.21	Lock to Lock Time	: 6.0
Trailer Width	: 8.20	Steering Angle	: 42.5
Tractor Track	: 8.00	Articulating Angle	: 75.0
Trailer Track	: 8.50		



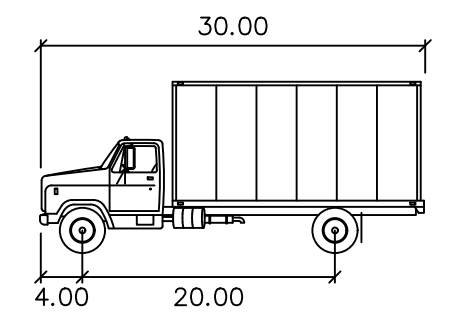
Kenworth T680 Semi Tanker Trailer
 TRANSPORT - TANKER TRAILERS
 [ft]



PROPOSED SU-30 CIRCULATION DETAIL
 SCALE: 1" = 30'

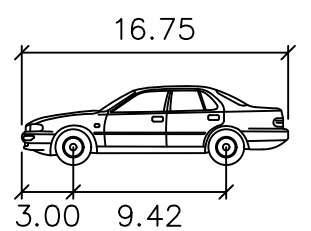


Composite Passenger Vehicle
 ARCHITECTURAL 2002 (US)
 [ft]



SU-30

feet	
Width	: 8.00
Track	: 8.00
Lock to Lock Time	: 6.0
Steering Angle	: 31.8



Composite Passenger Vehicle

feet	
Width	: 6.33
Track	: 6.33
Lock to Lock Time	: 6.0
Steering Angle	: 26.4

REV/DESCRIPTION	AUTH	DATE

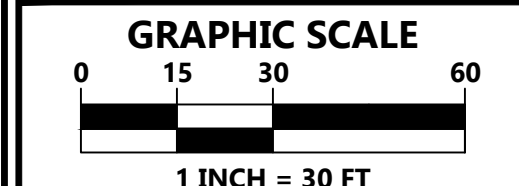
SERIAL NO. _____

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PA ONE CALL SYSTEM INC.



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JEFFREY PAUL DOWNNEY DATE
 PENNSYLVANIA PROFESSIONAL ENGINEER NUMBER 085990

Van Cleef
 ENGINEERING WITH FOCUS

VAN CLEEF ENGINEERING ASSOCIATES, LLC
 501 NORTH MAIN STREET, DOYLESTOWN, PA 18041
 WEB: WWW.VANCLEEFENGINEERING.COM
 PHONE: (610) 345-1876

TRUCK CIRCULATION PLAN

FOR
RAMOCO FUELS

DATE:	OCTOBER 11, 2024
SCALE:	1" = 30'
DESIGNED BY:	JTB
DRAWN BY:	ENP
CHECKED BY:	SDM
JOB NUMBER:	2302-BK

TMP: 06-008-079-002

BUCKINGHAM TOWNSHIP
 BUCKS COUNTY, PENNSYLVANIA