PRELIMINARY LAND DEVELOPMENT PLANS FOR

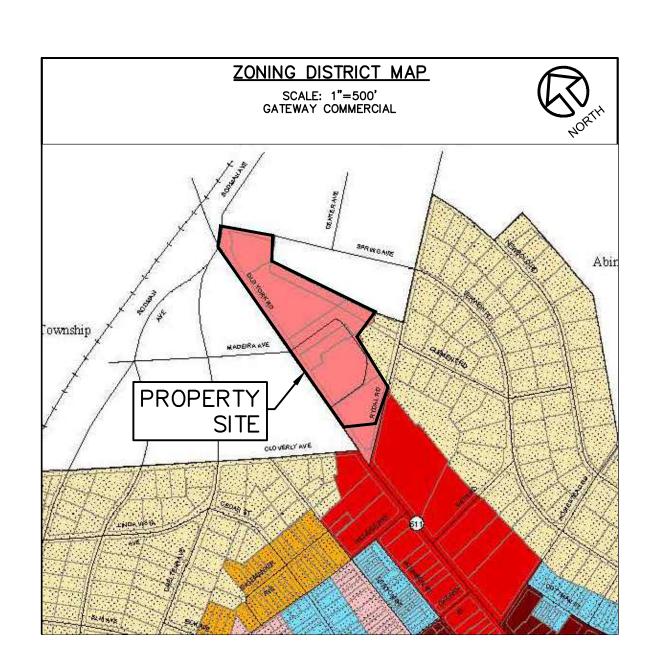
610 OLD YORK ROAD

SITUATED IN:

JENKINTOWN BOROUGH MONTGOMERY COUNTY, PENNSYLVANIA PREPARED FOR:

SBG MANAGEMENT SERVICES, INC. P.O. BOX 549

ABINGTON, PENNSYLVANIA 19001





DESIGN ONE CALL SERIA	L NO(s): 20210291778 20210291779
COMCAST ROBERT HARVERY BOB_HARVEY@CABLE.COMCAST.COM 4400 WAYNE AVE PHILADELPHIA, PA 19140	AQUA PENNSYLVANIA INC STEVE PIZZI SBPIZZI@AQUAAMERICA,COM 762 W LANCASTER AVE BRYN MAWR, PA 19010
PECO ENERGY C/O USIC NIKKIA SIMPKINS NIKKIASIMPKINS@USICLLC.COM 450 S HENDERSON RD SUITE B KING OF PRUSSIA, PA 19406	CENTURY LINK CENTURY LINK OPERATOR PERSONNE NATIONALRELO@CENTURYLINK.COM 1025 ELDORADO BLVD BROOMFIELD, CO.80021
SOUTHEASTERN PA TRANSPORTATION AUTHORITY TYLER LADD TLADD@SEPTA.ORG 1234 MARKET ST 12TH FLOOR PHILADLEPHIA, PA 19107	ABINGTON TOWNSHIP TIM CLARK TCLARK@ABINGTON.ORG 1176 OLD YORK RD ABINGTON, PA 19001
VERIZON PENNSYLVANIA LLC DARLINE LEPPERD JOHNSON 1050 VIRGINIA DR FORT WASHINGTON, PA 19034	CROWN CASTLE TYLER STEIN TYLER.STEIN@CROWNCASTLE.COM 1500 CORPORATE DR CANONSBURG, PA 15317
JENKINTOWN BOROUGH JIM RIGGINS KRIGGINS@JENKINTOWNBORO.COM 700 SUMMIT AVE JENKINTOWN, PA 19046	
PA ONE CALL SYSTEM	M 1-800-242-1776
LOCATIONS OF EXISTING UTILITIES SHOWN EXISTING RECORDS AND/OR ABOVE—GRECOMPLETENESS OR ACCURACY OF LOCACONTRACTORS AND OTHER PERSONS UTIL CONTAINED HEREON ARE CAUTIONED TO PENNSYLVANIA ACT 287, AS AMENDED, TITPROTECTION OF UNDERGROUND UTILITIES." MUST VERIFY THE DEPTH AND LOCATION OF STARTING WORK.	ROUND OBSERVATIONS AT THE SITE. TION CANNOT BE GUARANTEED. ALL IZING THIS PLAN AND THE INFORMATION COMPLY WITH THE REQUIREMENTS OF TLED "EXCAVATION AND DEMOLITION WORK" EACH INDIVIDUAL USING THIS PLAN

	SHEET LIST	TABLE		
SHEET NUMBER	SHEET DESCRIPTION	SHEET TITLE		
1	G-101	COVER SHEET		
2	C-101	RECORD PLAN		
3	V-101	EXISTING FEATURES & DEMOLITION PLAN		
4	C-102	GRADING & UTILITY PLAN		
5	CJ-101	EROSION & SEDIMENTATION CONTROL PLAN		
6	CJ-501	EROSION AND SEDIMENTATION CONTROL NOTES		
7	CJ-502	EROSION & SEDIMENTATION CONTROL DETAILS		
8	CJ-503	CONSTRUCTION DETAILS		
9 CJ-504		CONSTRUCTION DETAILS (2)		
10	C-103	TRUCK TURNING PLAN		

Carroll Engineering Corporation



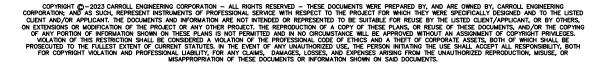
Warrington, PA 18976 Phone: 215-343-5700 Fax: 215-343-0875

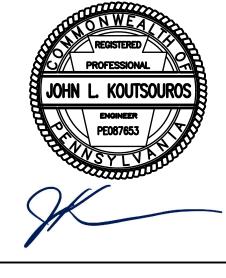
King of Prussia, PA 19406 Phone: 610-489-5100 Fax: 610-489-2674

Hillsborough, NJ 08844 Phone: 908-874-7500 Fax: 908-874-5762

949 Easton Road 630 Freedom Business Center, Third Floor 105 Raider Boulevard, Suite 206 101 Lindenwood Drive, Suite 225 Malvern, PA 19355 Phone: 484-875-3075 Fax: 484-875-3178

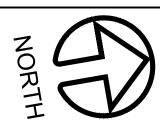
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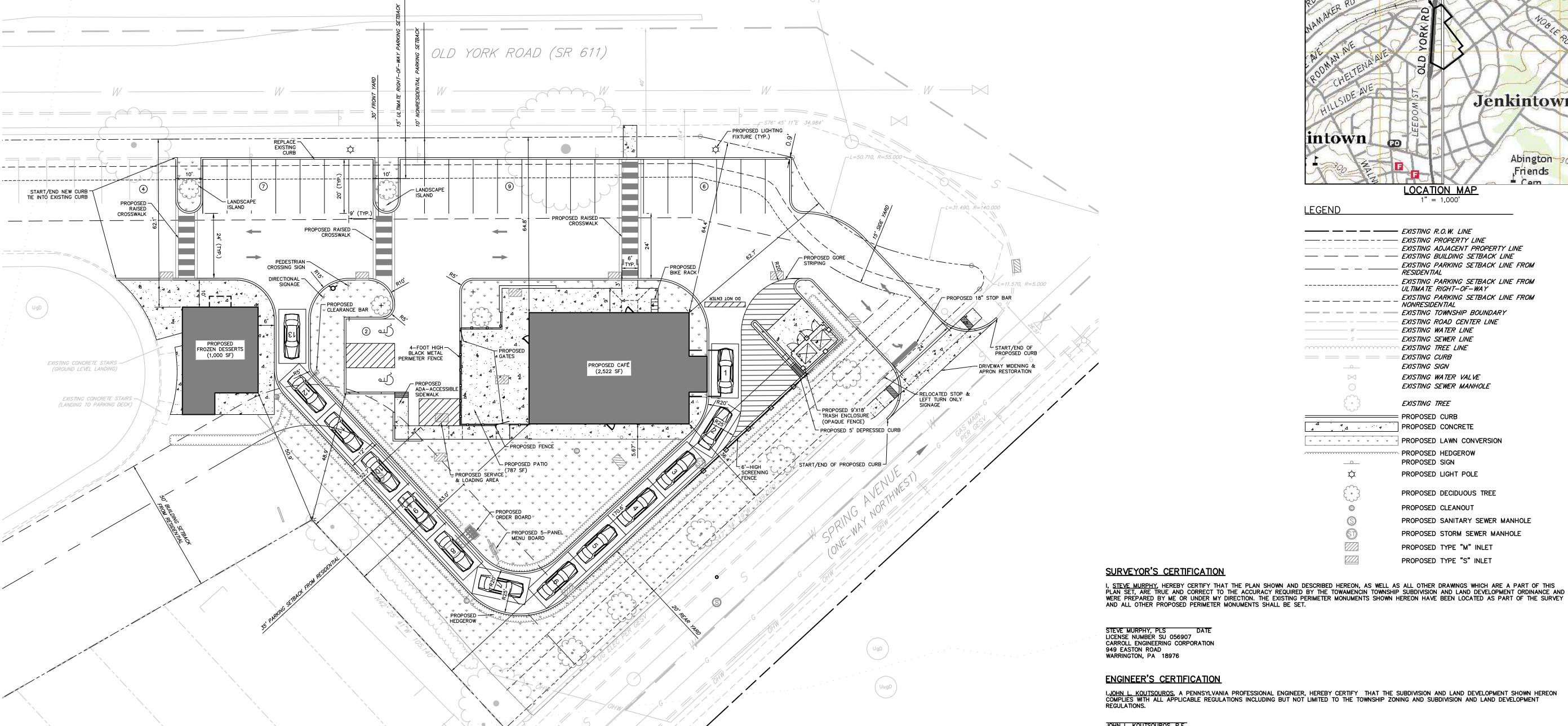




OWNER OF RECORD
PARID: 10-00-05364-00-8
JENKINS COURT REALTY COMPANY LP PO BOX 549 ABINGTON, PENNSYLVANIA 19001

DRAWING NUMBER-G-101





				JENKII	NTOWN BOROUGH ZONING				
1	OWNER	JENKINS COURT REALTY CO	OMPANY LP	6	DIMENSIONAL STANDARD FOR CLASS ONE CONDITIONAL USES				
	ADDRESS	610 OLD YORK ROAD				REQUIRED	EXISTING	PROPOSED	,
					MINIMUM NET LOT SIZE (SF)	40,000	344,681	344,681	
					MINIMUM LOT WIDTH (FT)	100.0	1073.9	1073.9	
2	ZONING DISTRICT	GATEWAY COMMERCIAL D	DISTRICT		MAXIMUM BUILDING COVERAGE (%)	25.0%	18.2%	19.2%	
	PARID	10-00-05364-00-8			MAXIMUM IMPERVIOUS COVERAGE (%)	70.0%	69.5%	68%	
3	EXISTING USE (TO REMAIN)	A.(1) RETAIL STORE			MINIMUM FRONT YARD SETBACK (FT)	30.0	N/A	62.1	
	EXISTING USE (TO REMAIN)	A.(4) BUSINESS OR PROFE	SSIONAL OFFICE		MINIMUM SIDE YARD SETBACK (FT)	15.0	N/A	62.7	
	EXISTING USE (TO REMAIN)	A.(9) RESTAURANT			MINIMUM REAR YARD SETBACK (FT)	20.0	N/A	36.4	
	EXISTING USE (TO REMAIN)	A.(19) ACCESSORY STRUCT	TURE FOR COMMERCIAL USE						
	,				MINIMUM BUILDING SETBACK FROM ABUTTING RESIDENTIALLY ZONED PROPERTIES (FT)	50.0	N/A	50.9	
	PROPOSED USE	A.(9) ESTABLISHMENT SER	VING FOOD OR BEVERAGES TO THE		MINIMUM PARKING SETBACK FROM STREET ULTIMATE RIGHT-OF-WAY LINE (FT)	15.0	-1.2	0.9	(ENC
	PROPOSED OSE	GENERAL PUBLIC INCLUDI	NG WALK-UP WINDOWS		MINIMUM PARKING SETBACK FROM NONRESIDENTIAL PROPERTY LINES (FT)	10.0	-1.2	0.9	(ENC
	PROPOSED USE (CONDITIONAL)	B.(1) CLASS ONE DRIVE-TH	IROUGH FACILITY		MINIMUM PARKING SETBACK FROM RESIDENTAIL PROPERTY LINES (FT)	35.0	11.27	48.9	
					MINIMUM SETBACK OF OUTDOOR LOADING AND TRASH STORAGE AREAS FROM ABUTTING	50.0	N/A	52.7	
					RESIDENTIALLY ZONED PROPERTIES (FT)	30.0	N/A	32.7	
4	LOT AREA								
		SF	AC		MAXIMUM BUILDING HEIGHT (FT)	40.0	N/A	<40.0	
	PROPERTY AREA	344,681	7.913						
(-)	STREET OR RIGHT OF WAY	0	0.000	7	PARKING REQUIREMENTS (1)				
		344,681	7.913		EXISTING PARKING SPACES	470	573		
					EXISTING PARKING SPACES (TO BE REMOVED)		93		
					PROPOSED PARKING SPACES ⁽²⁾	498	480	504	
								T	

PARKING BASED ON GATEWAY COMMERCIAL DISTRICT (RESTAURANT USE)

²⁾ REQUIRED PROPOSED PARKING SPACES IS BASED ON 2,144 SF OF PATRON FLOOR AREA AND 4 EMPLOYEES DURING LARGEST SHIFT AT THE CAFÉ AND 0 SF OF PATRON FLOOR AREA AND 3 EMPLOYEES DURING THE LARGEST SHIFT AT THE FROZEN DESSERTS

(ENC) EXISTING NON-CONFORMITY

AFFIDAVIT OF OWNERSHIP

COMMONWEALTH OF PENNSYLVANIA

BEFORE ME, THE UNDERSIGNED NOTARY PUBLIC, THIS DAY PERSONALLY APPEARED

WHO ACKNOWLEDGED HIMSELF TO BE THE ________OF

SBG MANAGEMENT SERVICES, INC., THE SOLE GENERAL PARTNER OF 610 OLD YORK ROAD, A PENNSYLVANIA
LIMITED PARTNERSHIP AND THAT HE AS THE _______, BEING AUTHORIZED TO DO SO
AND SWORN ACCORDINGLY TO LAW DEPOSES AND SAYS THAT 610 OLD YORK ROAD IS THE RECORD OWNER

OF ALL THE PROPERTY (FROMER TY) TO WAILCH THE PLAN APPLIES AND ALL PICEUS WHICH APPLIES AND ALL THE PROPERTY (FROMER TY).

IMPERVIOUS AREA CHART

239,410

(-7,603) S

(-*6,849*) S

232,561 SF

OF ALL THE PROPERTY ('PROPERTY') TO WHICH THE PLAN APPLIES AND ALL RIGHTS WHICH ARE NECESSARY TO IMPLEMENT THE PLAN. THE SOURCE OF 610 OLD YORK ROAD TITLE TO THE PROPERTY IS DEED(S)
RECORDED, WITH THE OFFICE OF THE RECORDER OF DEEDS IN AND FOR MONTGOMERY COUNTY, PENNSYLVANIA

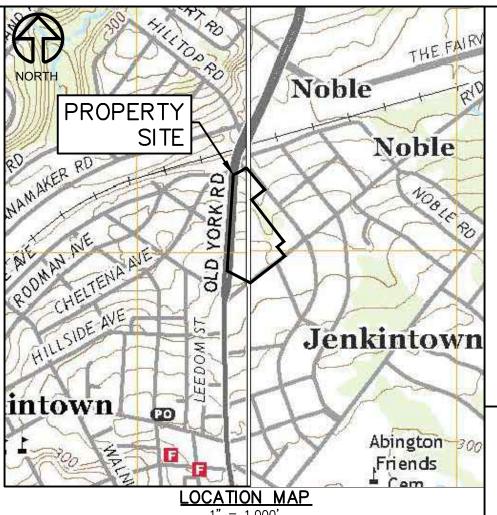
BOROUGH ENGINEER'S CERTIFICATION ("RECORDER'S OFFICE"), IN RECORD BOOK 9820, BEGINNING AT PAGE 2314. THIS PLAN IS 610 OLD YORK ROAD ACT AND DEED AND IS AUTHORIZED BY 610 OLD YORK ROAD TO BE RECORDED WITH THE RECORDER'S OFFICE AND THAT SUCH RECORDING SHALL BE EFFECTIVE FOR ALL PURPOSES.

610 OLD YORK ROAD BY: SBG MANAGEMENT SERVICES, INC.

(SIGNATURE) (SIGNATURE) (PRINTED NAME) (PRINTED NAME) (PRINTED TITLE) (PRINTED TITLE)

SWORN AND SUBSCRIBED TO BEFORE ME

NOTARY PUBLIC



----- EXISTING R.O.W. LINE EXISTING ADJACENT PROPERTY LINE ---- EXISTING BUILDING SETBACK LINE EXISTING PARKING SETBACK LINE FROM RESIDENTIAL EXISTING PARKING SETBACK LINE FROM ULTIMATE RIGHT-OF-WAY EXISTING PARKING SETBACK LINE FROM

NONRESIDENTIAL EXISTING TOWNSHIP BOUNDARY EXISTING ROAD CENTER LINE EXISTING WATER LINE EXISTING SEWER LINE EXISTING TREE LINE **EXISTING CURB**

EXISTING WATER VALVE EXISTING SEWER MANHOLE EXISTING TREE = PROPOSED CURB

PROPOSED CONCRETE PROPOSED LAWN CONVERSION PROPOSED HEDGEROW PROPOSED SIGN

PROPOSED LIGHT POLE PROPOSED DECIDUOUS TREE PROPOSED CLEANOUT PROPOSED SANITARY SEWER MANHOLE PROPOSED STORM SEWER MANHOLE

> PROPOSED TYPE "M" INLET PROPOSED TYPE "S" INLET

STEVE MURPHY, PLS LICENSE NUMBER SU 056907 CARROLL ENGINEERING CORPORATION

ENGINEER'S CERTIFICATION

I, JOHN L. KOUTSOUROS, A PENNSYLVANIA PROFESSIONAL ENGINEER, HEREBY CERTIFY THAT THE SUBDIVISION AND LAND DEVELOPMENT SHOWN HEREON COMPLIES WITH ALL APPLICABLE REGULATIONS INCLUDING BUT NOT LIMITED TO THE TOWNSHIP ZONING AND SUBDIVISION AND LAND DEVELOPMENT

JOHN L. KOUTSOUROS, P.E. LICENSE NUMBER PE-087653 CARROLL ENGINEERING CORPORATION WARRINGTON, PA 18976

MONTGOMERY COUNTY PLANNING COMMISSION

THIS PLAN OR AN EARLIER VERSION HEREOF WAS REVIEWED BY THE MONTGOMERY COUNTY PLANNING COMMISSION ON ______, 202____.

RECORDER OF DEEDS

RECORDED IN THE OFFICE FOR THE RECORDING OF DEEDS IN AND FOR THE COUNTY OF MONTGOMERY, IN PLAN BOOK ______, PAGE NO.

I, ______, A PENNSYLVANIA PROFESSIONAL ENGINEER, HAVE REVIEWED THIS PLAN, FOR THE BOROUGH, AND HAVE DETERMINED THAT IT HAS BEEN AMENDED AS REQUIRED BY BOROUGH RESOLUTION 202_____, AND THAT, BASED ON THE INFORMATION PROVIDED BY THE APPLICANT AND WITH ANY WAIVERS SPECIFICALLY IDENTIFIED AND SHOWN HEREON, THE PLAN COMPLIES WITH THE BOROUGH SUBDIVISION AND LAND DEVELOPMENT ORDINANCE.

BOROUGH ENGINEER, P.E.

RECORDER OF DEEDS

BOROUGH SOLICITOR WE HEREBY CERTIFY THAT THE BOROUGH COUNCIL OF THE TRAPPE BOROUGH, MONTGOMERY COUNTY, PENNSYLVANIA, BY ITS RESOLUTION 202_____, ADOPTED _____, 202___, APPROVED THIS PLAN AS A FINAL SUBDIVISION AND/OR LAND DEVELOPMENT PLAN, PURSUANT TO THE BOROUGH'S THEN CURRENT SUBDIVISION AND LAND DEVELOPMENT ORDINANCE AND THE PENNSYLVANIA MUNICIPALITIES PLANNING CODE AND THAT THE BOROUGH, ON ______, 202____, HEREBY AUTHORIZES THIS PLAN FOR RECORDING.

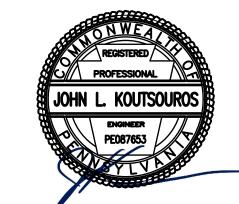
BOROUGH SOLICITOR

GRAPHIC SCALE (IN FEET) 1 inch = 20 ft.

Carroll Engineering Corporation 949 . EASTON . ROAI WARRINGTON, . PA . 1897 PHONE: 2 1 5 . 3 4 3 . 5 7 0 0 FAX: 2 1 5 . 3 4 3 . 0 8 7 630 Freedom Business Ctr., 3rd Fl. 105 Raider Boulevard, Suite 206 King of Prussia, PA 19406

Phone: 610-489-5100

Fax: 908-874-5762 101 Lindenwood Drive, Suite 225 Malvern, PA 19355 Phone: 484-875-3075 www.carrollengineering.com



10

RECORD

6/19/2023 CADD FILE 2211190102 JOB NO 221119

MJD MJD JLK 1" = 20'

DRAWER NUMBER SHEET

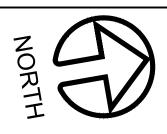
DATE

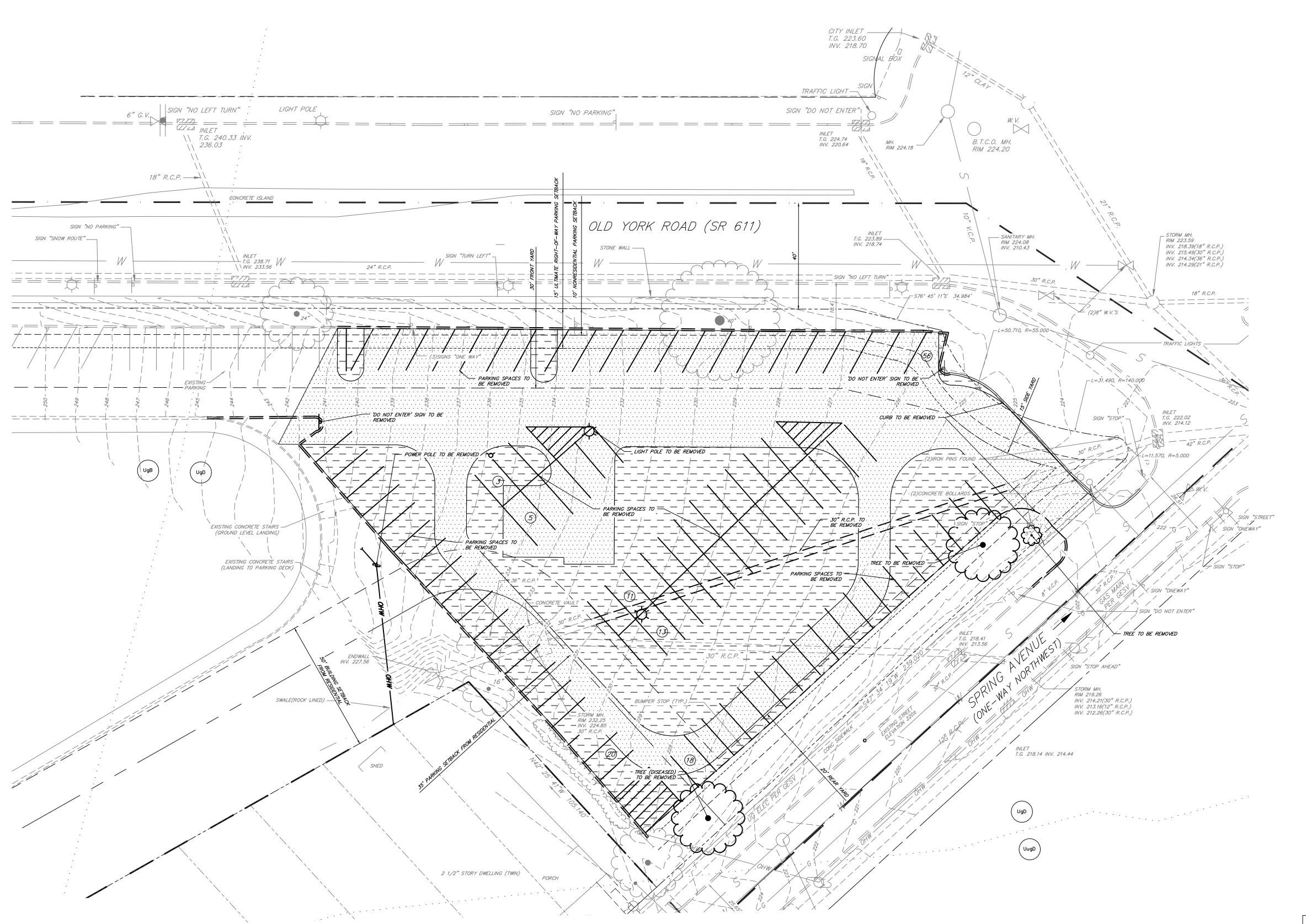
DWN BY

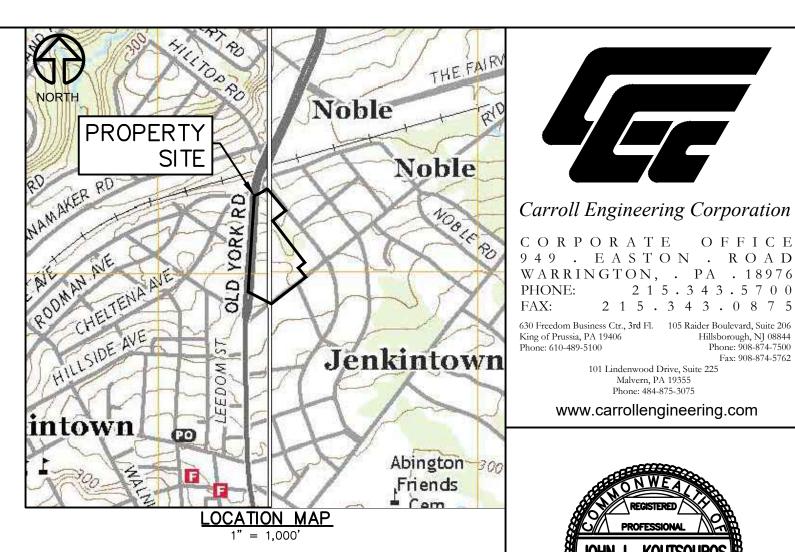
of 10 SHEETS DRAWING NUMBER

_









<u>LEGEND</u>

	EXISTING N.C.W. ENVE
	— EXISTING PROPERTY LINE
	— EXISTING ADJACENT PROPERTY LINE
	EXISTING MAJOR CONTOUR LINE
	— — EXISTING MINOR CONTOUR LINE
	— EXISTING BUILDING SETBACK LINE
	EXISTING PARKING SETBACK LINE F
	RESIDENTIAL
	EXISTING PARKING SETBACK LINE F
	ULTIMATE RIGHT-OF-WAY
	EXISTING PARKING SETBACK LINE F NONRESIDENTIAL
	- EXISTING TOWNSHIP BOUNDARY
	— EXISTING ROAD CENTER LINE
	— EXISTING WATER LINE
	— EXISTING SEWER LINE
========	= EXISTING STORM LINE
	CONTROL TREE LINE
:	EXISTING CURB
	EXISTING SIGN
\$	EXISTING LIGHT POLE
\bowtie	EXISTING WATER VALVE
	EXISTING INLET
	EXISTING UTILITY POLE
	EXISTING STORM MANHOLE
	EXISTING SEWER MANHOLE
{:}}	EXISTING TREE
300	EXISTING PARKING STALLS
	(TO BE REMOVED)
~	EXISTING LIGHT POLE
*	(TO BE REMOVED)
	EXISTING CURB
	(TO BE REMOVED)
	•

EXISTING PAVEMENT MILLED/OVERLAID

EXISTING SOIL DESCRIPTION

——— — EXISTING R.O.W. LINE

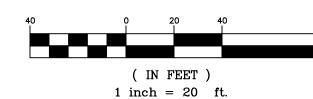
1. LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVE-GROUND OBSERVATIONS AT THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH CANNOT BE GUARANTEED. ALL CONTRACTORS AND OTHER PERSONS UTILIZING THIS PLAN AND THE INFORMATION CONTAINED THEREON ARE CAUTIONED TO COMPLY WITH THE REQUIREMENTS OF PENNSYLVANIA ACT 38, ENTITLED "EXCAVATION AND DEMOLITION WORK PROTECTION OF UNDERGROUND UTILITIES." EACH INDIVIDUAL USING THIS PLAN MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE STARTING WORK.

| - - - - - - - | EXISTING PAVEMENT _____ (TO BE REMOVED)

2.THE VERTICAL DATUM FOR THIS PROJECT IS BASED ON AN INLET GRATE LOCATED ON THE WESTERLY SIDE OF OLD YORK ROAD AT THE NORTHERLY CORNER OF MADEIRA AVENUE. SAID BENCHMARK WAS ESTABLISHED AS ELEVATION 260.57 AS SHOWN ON A PLAN PREPARED BY SHOEMAKER DATED 11-7-88 AND TITLED "TOPOGRAPHICAL PLAN OF PROPERTY MADE FOR M.S.K. ASSOCIATES, INC."

SOILS INFORMATION TABLE							
SYMBOL	NAME	SLOPE (%)	HYDRIC SOIL	HYDROLIC SOIL GROUP			
UgB	URBAN LAND	0-8	NO	N/A			
UgD	URBAN LAND	8-25	NO	N/A			
UugD	URBAN LAND -UDORTHENTS, SCHIST AND GNEISS COMPLEX	8-25	NO	С			

GRAPHIC SCALE



221119 JOB NO MJD MJD DWN BY JLK 1" = 20' DRAWER NUMBER OF 10 SHEETS

DATE

CADD FILE

DSG BY

CKD BY

SCALE

SHEET

6/19/2023

2211190103

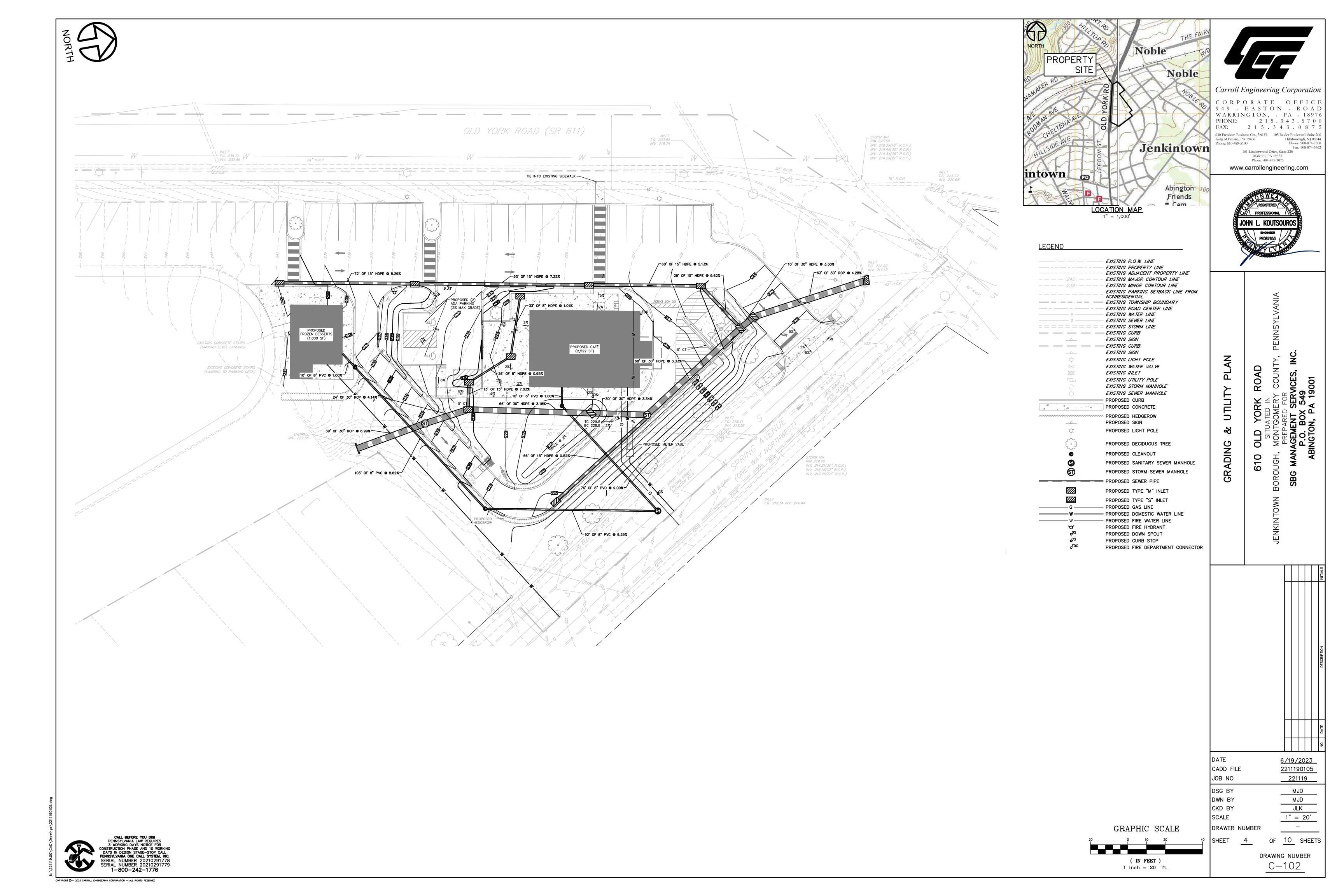
Fax: 908-874-5762

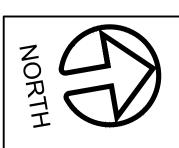
101 Lindenwood Drive, Suite 225 Malvern, PA 19355 Phone: 484-875-3075

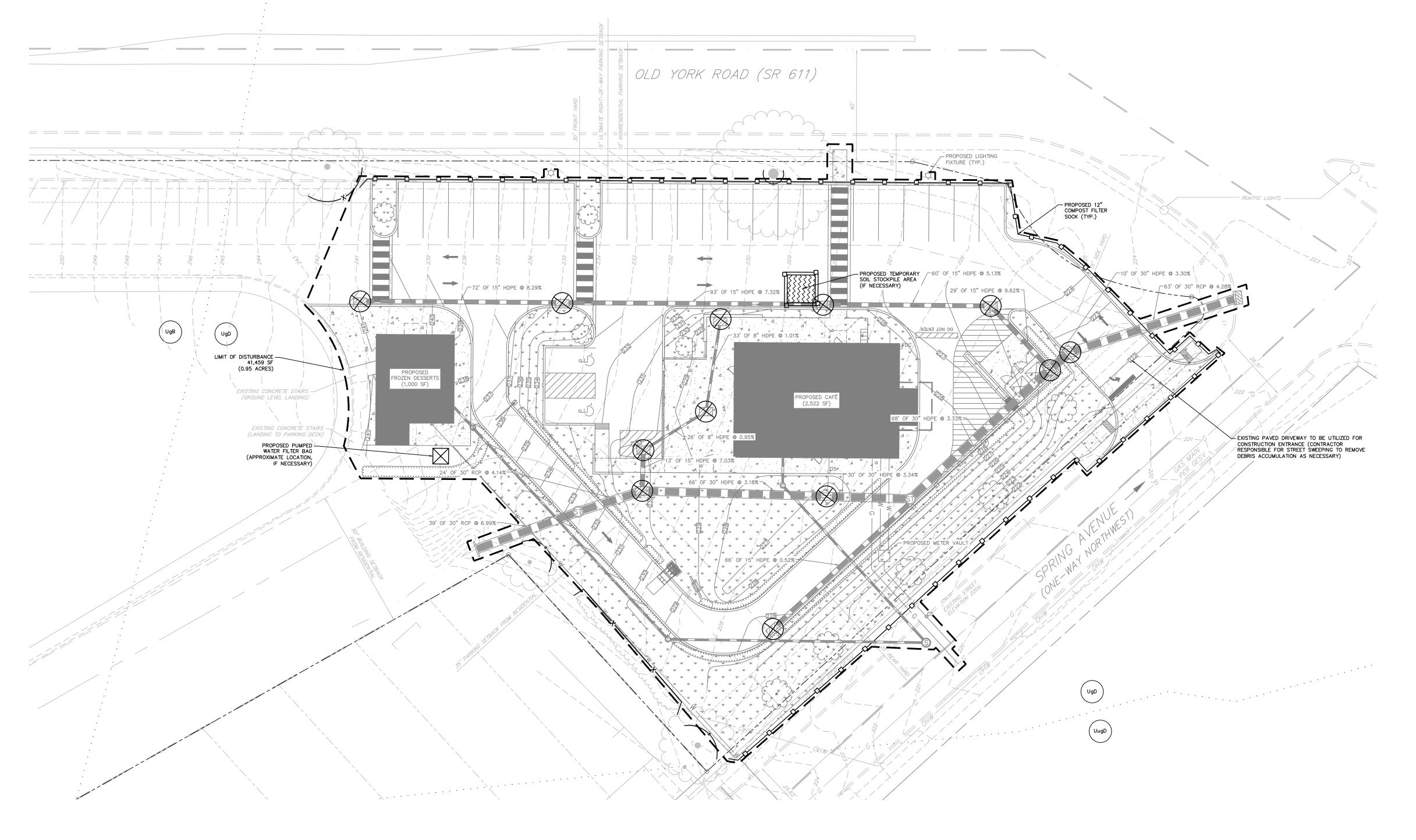
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DRAWING NUMBER

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BEDROCK (IN) ERODABILITY FROST HEAVE

EASILY

ERODABLE

OF TOPSOIL ACTION SWELL

DROUGHTY

POOR SOURCE FROST

TABLE E.1 LIMITATIONS OF PENNSYLVANIA SOILS PERTAINING TO EARTHMOVING PROJECTS

INFORMATION NOT AVAILABLE

INFORMATION NOT AVAILABLE

HYDRIC SOIL

CONCERETE/STEEL

CUTBANKS CORRSOIVE TO

SLOPE (%)

8-25

CAVE

SLOW

PERCOLATION

HYDROLIC SOIL

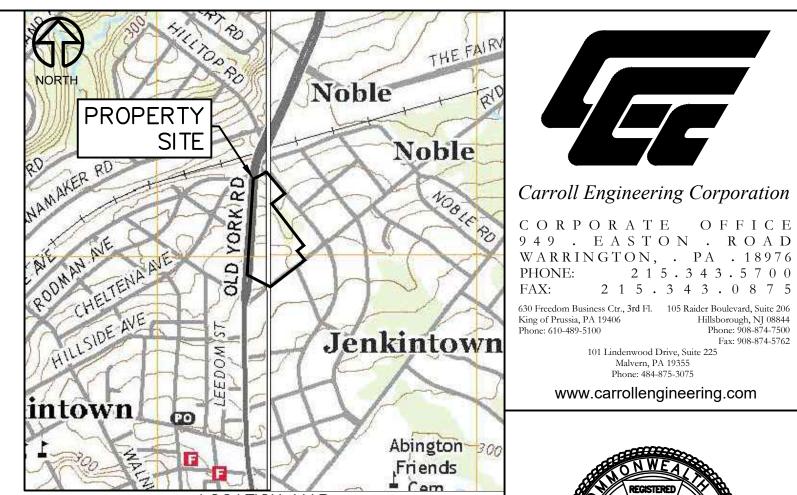
GROUP

HIGH WATER TABLE INCLUSIONS LANDSLIDE PRONE

FLOODING ZONE/SEASONABLE HYDRIC/HYDRIC LOW STRENGTH/

POTENTIAL SINKHOLE

SYMBOL	NAME	SLOPE (%)	HYDRIC SOIL	DEPTH TO BEDROCK (IN)	ERODABILITY	FROST HEAVE	SOIL PH	HYDROLIC SOIL GROUP		SYMBOL	NAME	
		0-8	NO									L
										ł		L
			TABLE E.1	LIMITATIONS OF	PENNSYLVAN	IIA SOILS PERTA	VINING TO EARTHMOVIN	NG PROJECTS	T			L
		CUTBANKS	CORRSOIVE TO	5501161171	EASILY	5100DING	DEPTH TO SATURATED	HYDRIC/HYDRIC	LOW STRENGTH/		URBAN LAND	l
UgB	URBAN LAND	CAVE	CONCERETE/STEEL	DROUGHTY	ERODABLE	FLOODING	ZONE/SEASONABLE HIGH WATER TABLE	INCLUSIONS	LANDSLIDE PRONE	UugD	-UDORTHENTS,	
					INFORMA ⁻	TION NOT AVA	LABLE				SCHIST AND	Γ
										1	GNEISS COMPLEX	ľ
		SLOW PERCOLATION	PIPING	POOR SOURCE OF TOPSOIL	FROST ACTION	SHRINK- SWELL	POTENTIAL SINKHOLE	PONDING	WETNESS			Ī,
		T ENCOLUMN		00.00.2		TION NOT AVAI	LABLE			1		F
SYMBOL	NAME	SLOPE (%)	HYDRIC SOIL	DEPTH TO BEDROCK (IN)	ERODABILITY	FROST HEAVE	SOIL PH	HYDROLIC SOIL GROUP				<u>. </u>
		8-25	NO									
			TABLE E.1	LIMITATIONS OF	PENNSYLVAN	IIA SOILS PERTA	INING TO EARTHMOVIN	NG PROJECTS				
		CUTBANKS	CORRSOIVE TO	DROUGHTY	EASILY	FLOODING	DEPTH TO SATURATED ZONE/SEASONABLE	HYDRIC/HYDRIC	LOW STRENGTH/			
UgD	URBAN LAND	CAVE	CONCERETE/STEEL		ERODABLE		HIGH WATER TABLE	INCLUSIONS	LANDSLIDE PRONE			
					INFORMA [*]	TION NOT AVA	LABLE			1		
		SLOW	PIPING	POOR SOURCE	FROST	SHRINK-	POTENTIAL SINKHOLE	PONDING	WETNESS			
		PERCOLATION	PIPING	OF TOPSOIL	ACTION	SWELL	POTENTIAL SINKHOLE	PONDING	WEINESS			
					INFORMA [*]	TION NOT AVA	LABLE]		



——— — EXISTING R.O.W. LINE

EXISTING MAJOR CONTOUR LINE
239 EXISTING MINOR CONTOUR LINE
EXISTING BUILDING SETBACK LINE
EXISTING PARKING SETBACK LINE FROM RESIDENTIAL
EXISTING PARKING SETBACK LINE FROM ULTIMATE RIGHT—OF—WAY
EXISTING TREE LINE

EXISTING TREE

=== === EXISTING CURB

EXISTING SOIL LINE

EXISTING SOIL DESCRIPTION

PROPOSED TEMPORARY SOIL STOCKPILE AREA PROPOSED 12" COMPOST FILTER SOCK —X———— PROPOSED TREE PROTECTION FENCING

\bigotimes	PROPOSED FILTER BAG INLET
	PROPOSED CURB
Δ . Δ	PROPOSED CONCRETE
\(\psi\) \(\	PROPOSED LAWN CONVERSION
	PROPOSED HEDGEROW
	PROPOSED SIGN
	PROPOSED LIGHT POLE

PROPOSED LIGHT POLE PROPOSED DECIDUOUS TREE PROPOSED CLEANOUT

PROPOSED SANITARY SEWER MANHOLE PROPOSED STORM SEWER MANHOLE PROPOSED SEWER PIPE PROPOSED TYPE "M" INLET PROPOSED TYPE "S" INLET PROPOSED GAS LINE PROPOSED DOMESTIC WATER LINE

> PROPOSED FIRE WATER LINE PROPOSED FIRE HYDRANT PROPOSED DOWN SPOUT PROPOSED CURB STOP PROPOSED FIRE DEPARTMENT CONNECTOR

EROSION

ROAD

949 . EASTON . ROAD

PHONE: 2 1 5 . 3 4 3 . 5 7 0 0

www.carrollengineering.com

Prone: 908-874-7500 Fax: 908-874-5762 101 Lindenwood Drive, Suite 225 Malvern, PA 19355 Phone: 484-875-3075

				DESCRIPTION
				DATE
				ON.
FILE	<u>/1</u> 21			

221119

MJD MJD

JLK

1" = 20'

DRAWING NUMBER

CJ-101

DATE CADD FILE JOB NO DSG BY DWN BY CKD BY

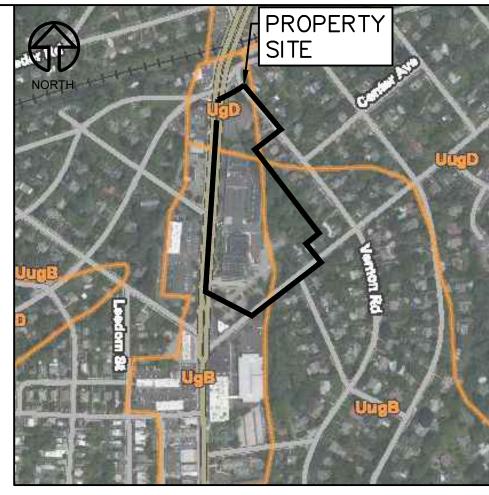
SCALE DRAWER NUMBER

OF 10 SHEETS

GRAPHIC SCALE (IN FEET)

1860 SHEET 1 inch = 20 ft.

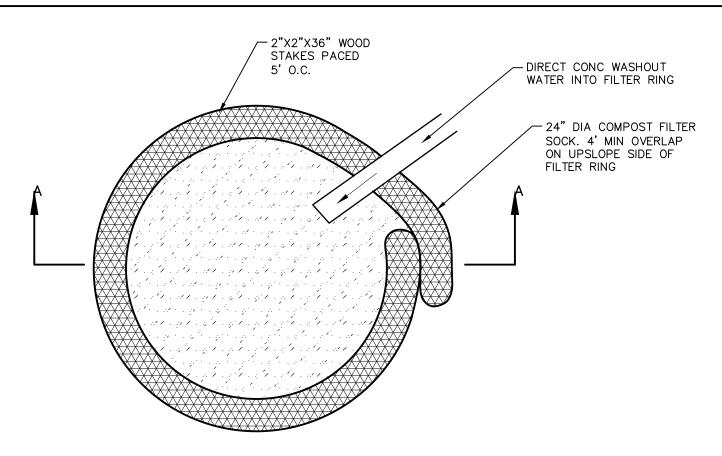
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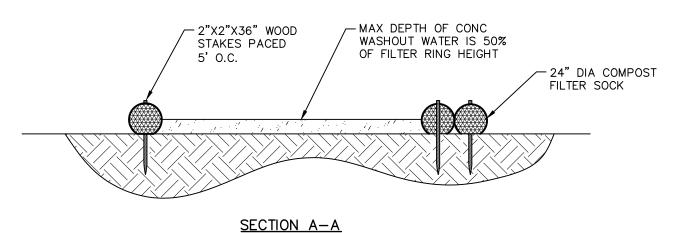
USGS LOCATION MAP SCALE: 1" = 1,000'

MCCD STANDARD E&S PLAN NOTES:

- ALL 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 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 DISCRETION.
- AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE PCSM PLAN PREPARER, THE LÍCENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.
- AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 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 LOCAL CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION.
- AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL. 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. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. 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 LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT.
- 10. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- 11. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
- 12. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING. 13. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED
- 14. VEHICLES AND EQUIPMENT MAY NEITHER ENTER DIRECTLY NOR EXIT DIRECTLY FROM LOT (10-00-05364-00-8) ONTO OLD YORK ROAD (SR 611).
- 15. 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.
- 16. 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.
- 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 THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEPT INTO ANY ROADSIDE DITCH, STORM SEWER, OR
- 18. ALL 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 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.
- 20. 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.
- 21. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
- 22. 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.
- 23. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
- 24. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- 25. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
- 26. 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 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.
- 27. 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.
- 28. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% 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
- 29. 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.
- 30. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPS.
- 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. 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.
- 32. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION.
- 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 OF E&S BMPS MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.



PLAN VIEW



- 1. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE.
- 2. 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.
- 3. A SUITABLE IMPERVIOUS GEOMEMBRANE SHALL BE PLACED AT THE LOCATION OF THE WASHOUT PRIOR TO INSTALLING
- 4. ALL CONCRETE WASHOUT FACILITIES SHALL BE INSPECTED DAILY. DAMAGED OR LEAKING WASHOUTS SHALL BE DEACTIVATED AND REPAIRED OR REPLACED IMMEDIATELY.
- 5. ACCUMULATED MATERIALS SHALL BE REMOVED WHEN THEY REACH 75% CAPACITY.

TYPICAL CONCRETE WASHOUT/COMPOST SOCK WASHOUT INSTALLATON

STANDARD DETAIL 3-18

BLOWN/PLACED · FILTER MEDIA DISTURBED AREA $\triangle A M A A A M A A$ DISTURBED AREA " X 2" WOODEN UNDISTURBED AREA FILTER SOCK STAKES PLACED 10 FT ON CENTER

-2" X 2" WOODEN STAKES

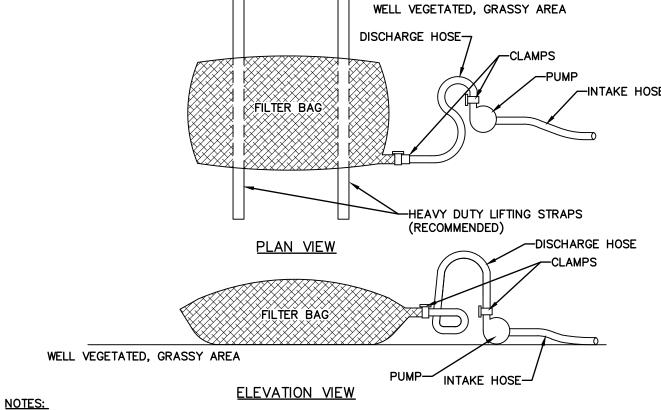
PLACED 10 FT ON CENTER

COMPOST FILTER SOCK-

- SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP
- COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.
- 3. TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.
- ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE
- COMPOST FILTER 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 COMPOST 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
- 8. ANTIDEGRADATION BEST AVAILABLE COMBINATION OF TECHNOLOGIES (ABACT) APPROVED.

COMPOST FILTER SOCK NTS

STANDARD DETAIL 4-01



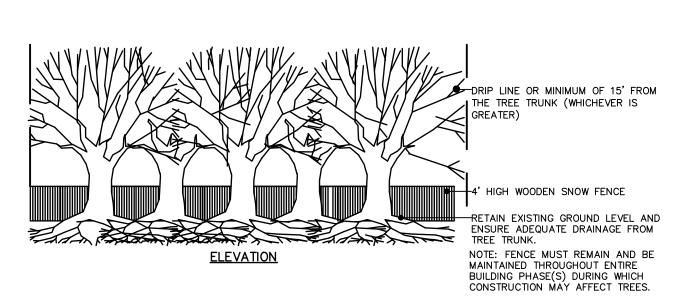
LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

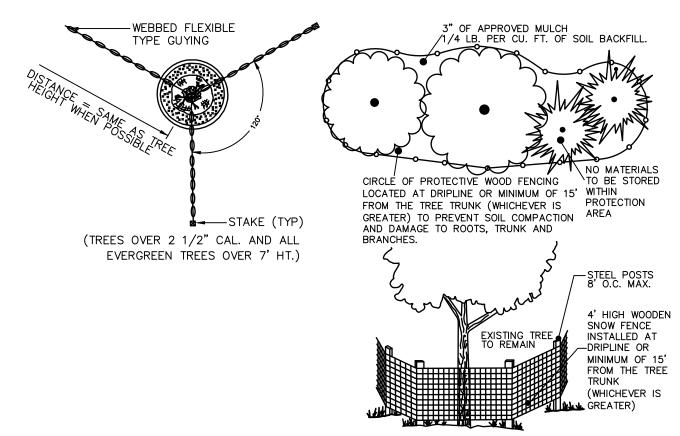
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	PROPERTY	TEST METHOD	MINIMUM STANDARD
	AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
	GRAB TENSILE	ASTM D-4632	205 LB
	PUNCTURE	ASTM D-4833	110 LB
	MULLEN BURST	ASTM D-3786	350 PSI
	UV RESISTANCE	ASTM D-4355	70%
	AOS % RETAINED	ASTM D-4751	80 SIEVE

- 2. A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS
- BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%. FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE
- NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.
- 5. THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.
- 6. THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.
- 7. FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.
- 8. ANTIDEGRADATION BEST AVAILABLE COMBINATION OF TECHNOLOGIES (ABACT) APPROVED IF SURROUNDED

PUMPED WATER FILTER BAG

STANDARD DETAIL 3-16



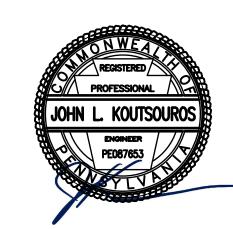


<u>TREE PROTECTION DETAIL</u>

Carroll Engineering Corporation CORPORATE OFFIC 949 . EASTON . ROAL WARRINGTON, . PA . 1897

2 1 5 . 3 4 3 . 5 7 0 PHONE: FAX: 2 1 5 . 3 4 3 . 0 8 7 630 Freedom Business Ctr., 3rd Fl. 105 Raider Boulevard, Suite 20 King of Prussia, PA 19406 Fax: 908-874-576 101 Lindenwood Drive, Suite 225

Malvern, PA 1935 Phone: 484-875-3075 www.carrollengineering.com



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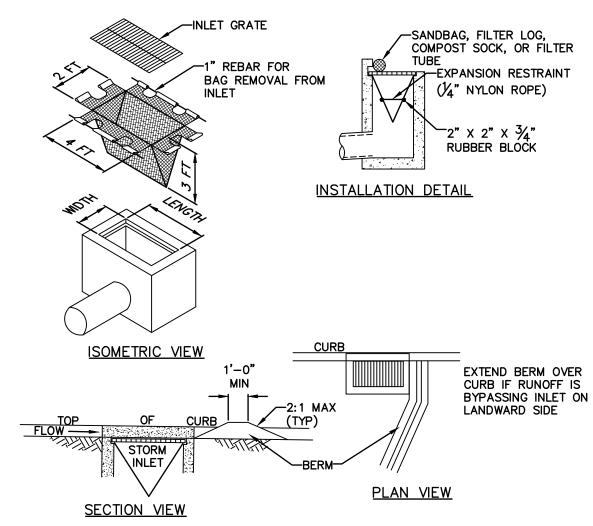
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SCALE

DRAWER NUMBER

10 SHEETS DRAWING NUMBER

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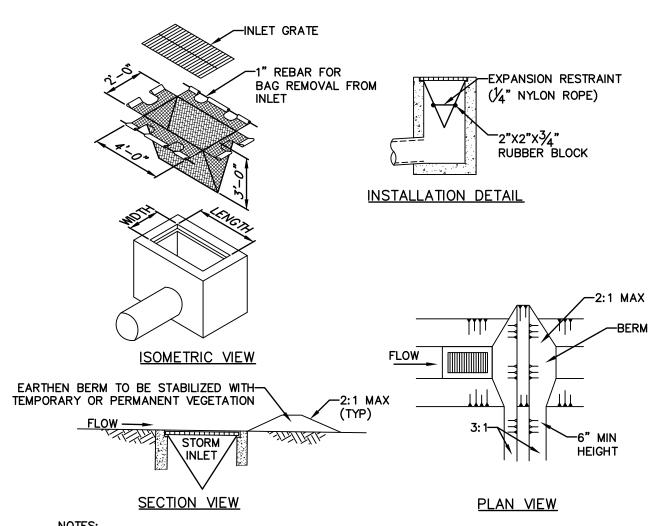
- 1. MAXIMUM DRAINAGE AREA = 1/2 ACRE.
- 2 INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.
- 3. ROLLED EARTHEN BERM SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. SIX INCH MINIMUM HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT. AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS, A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.
- 4. INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE OF ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.
- 5. DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.
- 6. ANTIDEGRADATION BEST AVAILABLE COMBINATION OF TECHNOLOGIES (ABACT) APPROVED.

FILTER BAG INLET PROTECTION - TYPE C INLET

STANDARD DETAIL 4-15

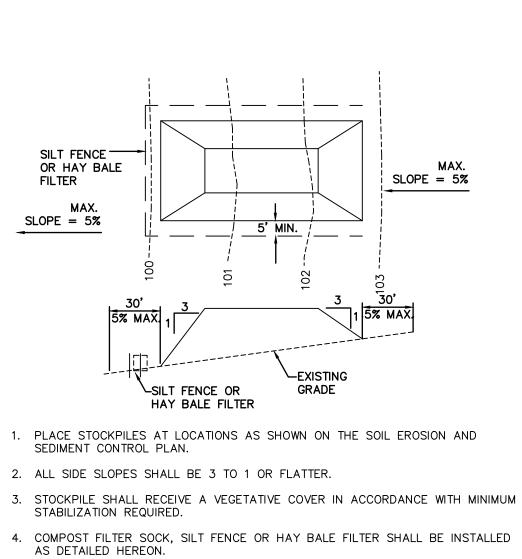
- 3. STOCKPILE SHALL RECEIVE A VEGETATIVE COVER IN ACCORDANCE WITH MINIMUM

TOPSOIL STOCKPILE



- OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.
- 3. ROLLED EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS
- LBS., A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.
- EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.
- 6. DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.
- 7. ANTIDEGRADATION BEST AVAILABLE COMBINATION OF TECHNOLOGIES (ABACT) APPROVED.
- FILTER BAG INLET PROTECTION-TYPE M INLET

STANDARD DETAIL 4-16



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6/19/2023

DATE CADD FILE JOB NO

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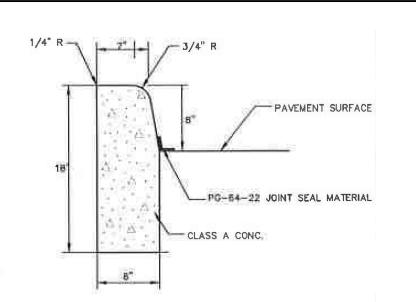
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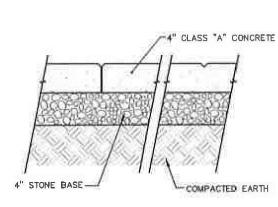
- 1. MAXIMUM DRAINAGE AREA = 1/2 ACRE.
- 2. INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN
- COMPLETED OR REMAIN PERMANENTLY.
- 4. AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120
- 5. INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF

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CONCRETE CURB DETAIL

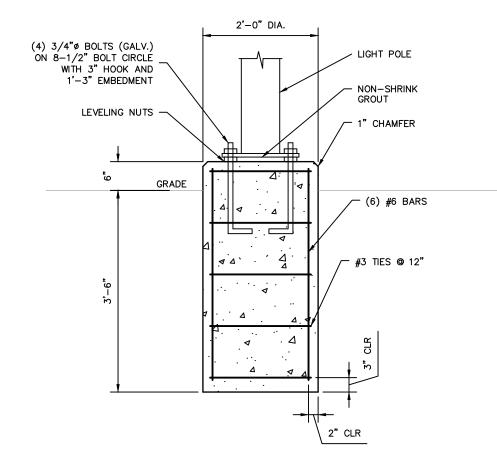
REFER TO PENNDOT RC-64M, LATEST EDITION, PROVIDE MATERIALS AND CONSTRUCTION MEETING THE REQUIREMENTS OF PUBLICATION 408



CONCRETE WALK SECTION DETAIL

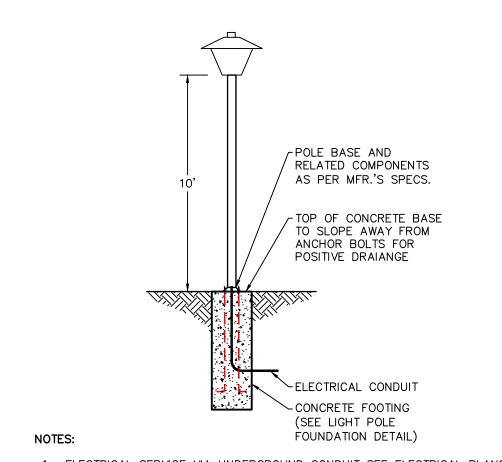
N.T.S. N.T.S.

1. THE SIDEWALK SHALL BE PROVIDED WITH CONTROL JOINTS AT EVERY 5 FEET AND EXPANSION JOINTS AT EVERY 25 FEET. EXPANSION JOINTS SHALL CONSIST OF PRE-MOLDED BITUMINOUS MATERIAL. THE CONCRETE THICKNESS AT DRIVEWAY CROSSINGS SHALL BE 6' 3. MINIMUM 28 DAY COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 3,300 PSI



- 1. CONCRETE SHALL CONFORM TO PENNDOT CLASS A.
- 2. STEEL REINFORCEMENT SHALL CONFORM TO ASTM A615. ALL CONSTRUCTION SHALL CONFORM TO ACI 301-11 AND CRSI MANUAL OF STANDARD PRACTICE.
- CONTRACTOR SHALL COORDINATE EMBEDMENT OF ANCHOR RODS WITH POLE MANUFACTURER.

LIGHT POLE FOUNDATION DETAIL

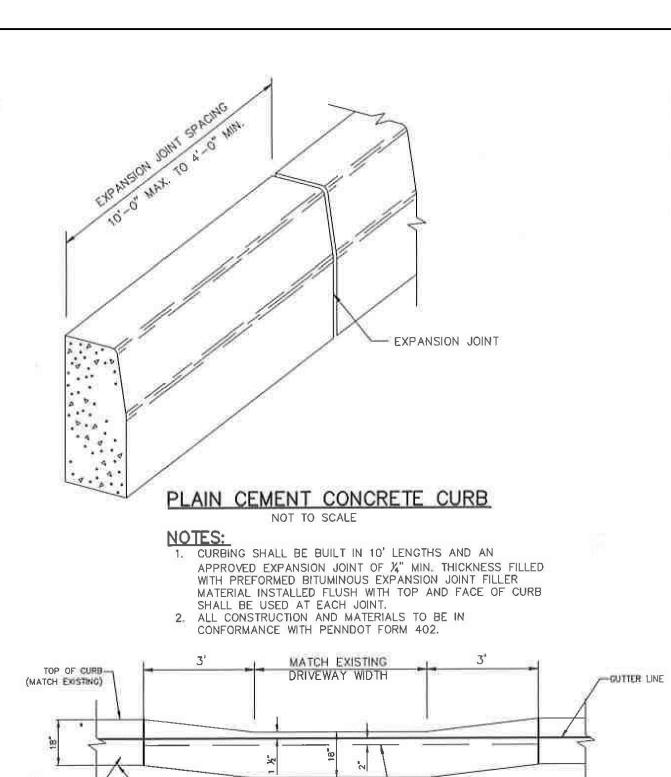


- 1. ELECTRICAL SERVICE VIA UNDERGROUND CONDUIT SEE ELECTRICAL PLANS.
- 2. FIXTURES SHALL BE MOUNTED 10 FT. ABOVE GRADE

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3. THIS FOUNDATION HAS BEEN STRUCTURALLY DESIGNED.

LIGHT STANDARD



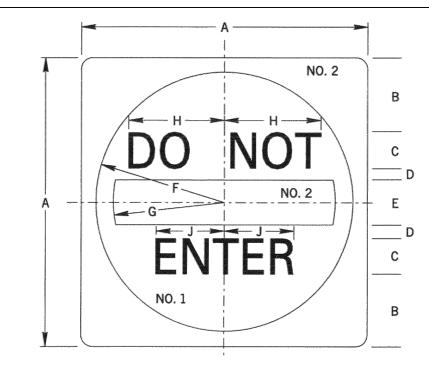
CURB DEPRESSION AT DRIVEWAY NOT TO SCALE

- 2-#4 BARS (24" O.C.) PLACED

PLUS 18" ON EITHER SIDE

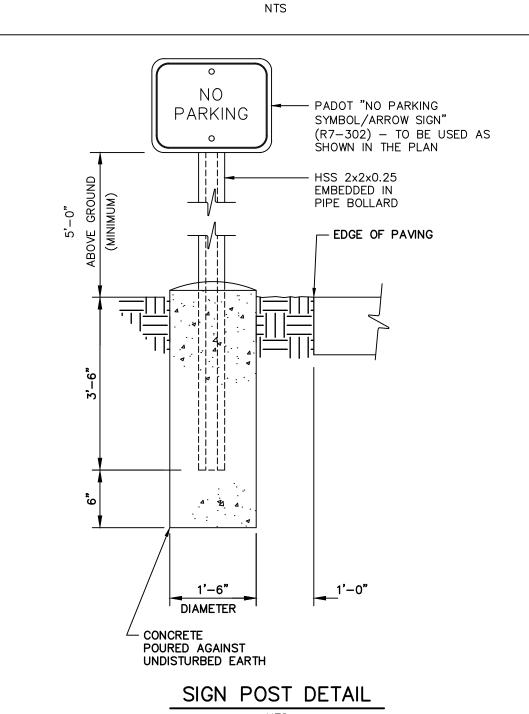
FOR FULL LENGTH OF DEPRESSION

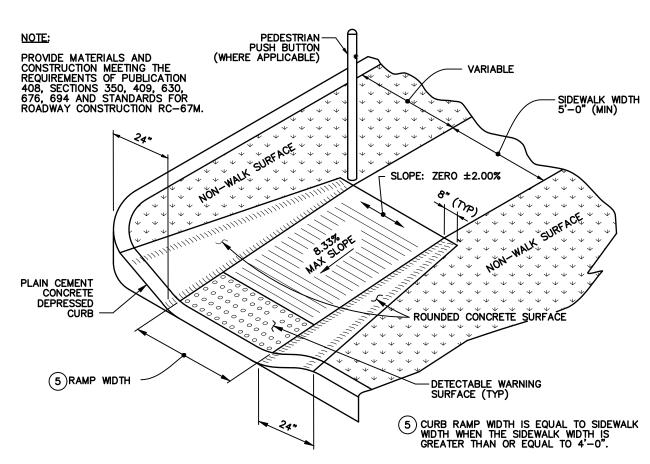
-PREMOLDED EXP. JOIN



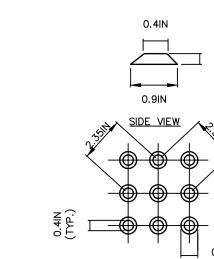
DIMENSIONS - mm (IN)									
SIGN SIZE A x A	В	С	D	E	F	G	Н	J	BLANK STD.
750 x 750	165	100D	47	126	365	310	251	199	B3- 750
(30" x 30")	(6.6)	(4D)	(1.9)	(5)	(14.6)	(12.4)	(9.9)	(7.9)	(B3-30)
900 x 900	190	125D	60	150	440	375	314	249	B3-900
(36" x 36")	(7.6)	(5D)	(2.4)	(6)	(17.6)	(15)	(12.4)	(9.8)	(B3-36)
1200 x 1200	275	150D	75	200	590	500	377	298	B3-1200
(48" x 48")	(11)	(6D)	(3)	(8)	(23.6)	(20)	(14.9)	(11.8)	(B3-48)

DO NOT ENTER DETAIL





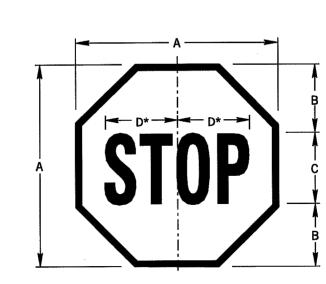
PENNDOT TYPE 4A PARALLEL CURB RAMP



TOP VIEW DETECTABLE WARNINGS SHALL BE A PRE-MANUFACTURED ARMOUR-TILE TACTILE SYSTEM OR APPROVED EQUIVALENT. 2. CONTRACTOR TO COORDINATE SPECIFIC SYSTEM AND MATERIALS TO BE UTILIZED WITH THE ENGINEER TO ENSURE LOCAL, STATE AND A.D.A. COMPLIANCE PRIOR TO CONSTRUCTION.

TRUNCATED DOME PATTERN FOR A.D.A.

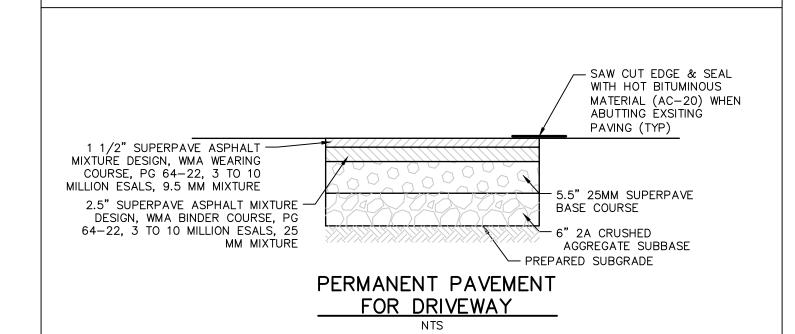
DETECTABLE WARNING SURFACES

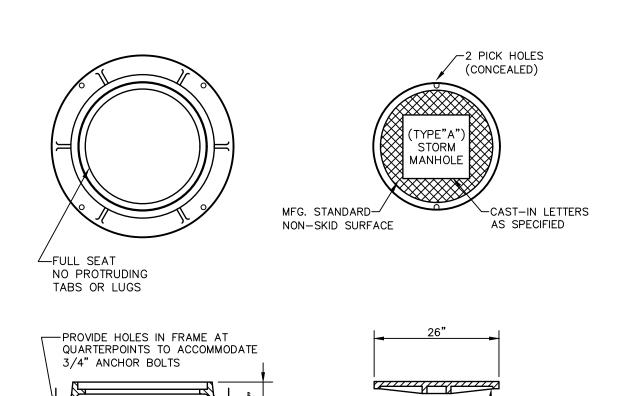


		DIMENSI	ONS - IN		
SIGN SIZE A x A	В	С	D	BOR- DER	BLANK STD.
18" x 18"	6	6C	8	0.4	-
24" x 24"	8	8C	10	0.6	B1-24
30" x 30"	10	10C	12.6	0.8	B1–30
36" x 36"	12	12C	15	0.8	B1–36
48" x 48"	16	16C	20	1.2	B1-48

STOP SIGN DETAIL

* REDUCE SPACING 40%





<u>FRAME</u>

NOTES:

24" CLEAR

36" (NEENAH)

<u>COVER</u>

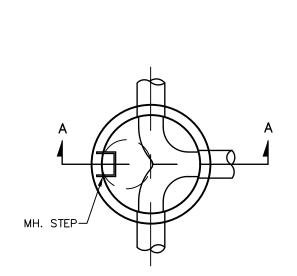
DOVETAILED GROOVE-

WITH PREINSTALLED

CONTINUOUS GASKET

- MANHOLE FRAME AND COVER SHALL BE NEENAH FOUNDRY CO. MODEL R-1642, WITH SELF-SEALING LID GASKET (OR APPROVED EQUAL).
- 2. ALL MATERIALS TO BE GRAY CAST IRON ASTM A-48, CLASS 35.
- FRAME AND COVER SHALL BE FOR HEAVY DUTY TRAFFIC, AASHTO HS-20.
- 4. PROVIDE FOUR (4) STAINLESS STEEL ANCHOR BOLTS, 3/4" DIA. MINIMUM.
- 5. COVER SHALL HAVE THE WORDS "BCWSA SANITARY SEWER" OR "BCWSA 'S' DANGER KEEP OUT" CAST THEREON IN 2" LETTERS.
- 6. FRAME AND COVER SHALL BE COATED WITH BLACK ASPHALTIC PAINT.
- 7. THE FOLLOWING MANUFACTURER'S STANDARD CASTING, OR APPROVED EQUAL, SHALL BE USED.

STANDARD STORM MANHOLE FRAME AND COVER



<u>PLAN VIEW</u>

PRECAST REINFORCED

CONCRETE BASE -

WRAPID SEAL BY CANUSA

EXTERNAL CHIMNEY SEAL

(OR APPROVED EQUAL)

PRECAST REINFORCED CONCRETE ECCENTRIC CONE SECTION ----

(TYP)

1. THE DEPTH OF THE INVERT CHANNEL SHALL BE EQUAL TO 3/4 OF THE DIAMETER OF THE SEWER. 2. THE SHELF SHALL SLOPE TOWARD THE INVERT

CHANNEL AT A RATE OF 1" PER FOOT. 3. TYPE "B" MANHOLES (SHALLOW TYPE) TO BE

PROVIDED WHERE REQUIRED BY DEPTH CONDITIONS. ALL OTHER MANHOLES TO BE TYPE "A". 4. FOR MANHOLES HAVING 5' DIA. AND 6' DIA. BASE, REDUCTION IN DIAMETER TO 4' SHALL START AT

THE FIRST JOINT ABOVE THE UPPERMOST PIPE CONNECTION TO WALL, WHERE DEPTH IS SUFFICIENT.

5. ALL MANHOLE FRAMES SHALL BE BOLTED TO THE CONE SECTION OR CONCRETE SLAB WITH (4)-3/4" DIA. BOLTS WITH WASHERS AND NUTS. BOLTS TO BE AT 90° ON THE BOLT CIRCLE.

6. SEE THE SPECIFICATIONS FOR LENGTH OF PIPE CONNECTIONS TO MANHOLES.

7. ALL CONCRETE SHALL BE 4000 PSI MINIMUM. 8. ENTIRE OUTSIDE SURFACE OF MANHOLE SHALL RECEIVE TWO COATS OF BITUMINOUS COATING,

COAL TAR EPOXY, OR APPROVED EQUAL. 9. INSTALL DOUBLE RING OF PLASTIC BUTYL JOINT SEALANT BETWEEN ALL SECTIONS AND UNDER FRAME.

10. MANHOLE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ASTM C478.

11. PROVIDE A RESILIENT PIPE CONNECTION GASKET CAST INTEGRALLY IN MANHOLE WALL AT ALL PIPE CONNECTIONS. GASKET SHALL BE A-LOK CONNECTOR, OR APPROVED EQUAL. GROUT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. 12. 4' DIA. MANHOLE - 8" TO 16" PIPES 5' DIA. MANHOLE - 18" TO 27" PIPES 6' DIA. MANHOLE - 30" TO 48" PIPES

13. AN EXTERNAL CHIMNEY SEAL SHALL BE INSTALLED OVER FRAME AND GRADE RINGS. CHIMNEY SEAL SHALL BE WRAPID SEAL BY CANUSA OR APPROVED EQUAL.

14. MANHOLES THAT RECEIVE FORCE MAIN DISCHARGE OR THAT ARE LOCATED ON INTERCEPTORS OR TRUNK SEWERS SHALL BE CONSTRUCTED WITH A SPRAY-ON POLYMETRIC LINING SYSTEM, SPECTRASHIELD, OBIC, OR APPROVED EQUAL.

15. SEE DETAIL S-7 OR S-8 FOR MANHOLE STEP REQUIREMENTS.

5" WALL FOR 4'-0" DIA. MH. 6" WALL FOR 5'-0" DIA. MH. 7" WALL FOR 6'-0" DIA. MH.

PRECAST REINFORCED

3/4 DIA. OF -CONCRETE RISER LARGEST PIPE SECTION L4" MIN CONC. CHANNEL FILL MIN. 6" CRUSHED-

TYPE "A" STANDARD STORM SEWER MANHOLE SECTION A-A

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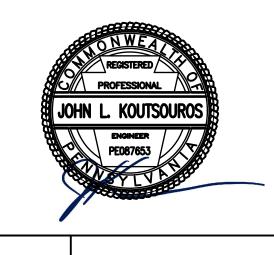
CORPORATE OFFIC 949 . EASTON . ROAI WARRINGTON, . PA . 1897 PHONE: 2 1 5 . 3 4 3 . 5 7 0 FAX: 2 1 5 . 3 4 3 . 0 8 7 630 Freedom Business Ctr., 3rd Fl. 105 Raider Boulevard, Suite 200 King of Prussia, PA 19406

> 101 Lindenwood Drive, Suite 225 Malvern, PA 19355 Phone: 484-875-3075 www.carrollengineering.com

Phone: 610-489-5100

Hillsborough, NJ 0884

Fax: 908-874-5762



DETAILS ROAD **NSTRUCTION**

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CADD FILE JOB NO DSG BY MJD MJD

DWN BY CKD BY SCALE

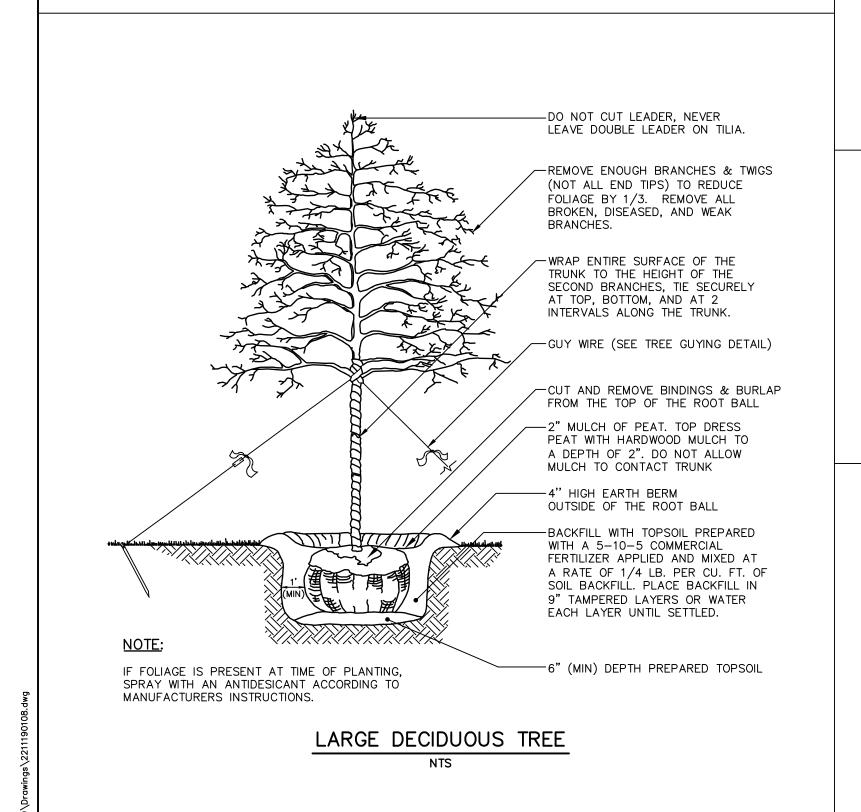
DATE

DRAWER NUMBER SHEET

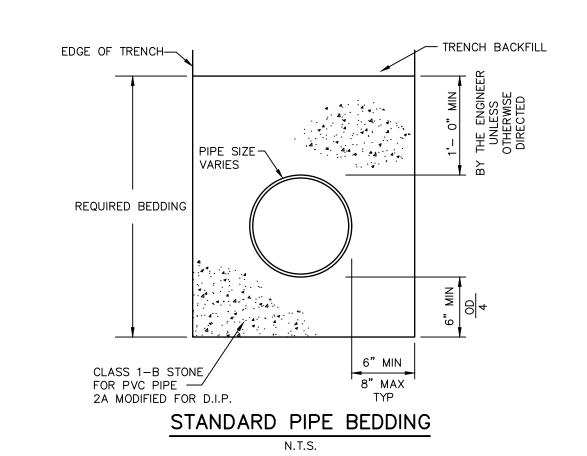
10 SHEETS DRAWING NUMBER CJ-503

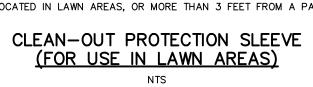
JLK

NTS



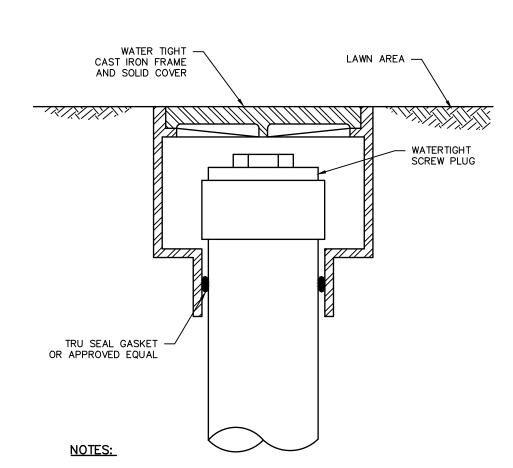
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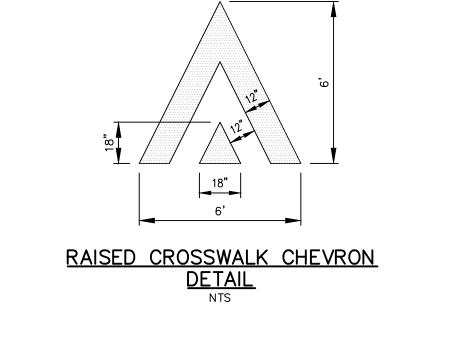


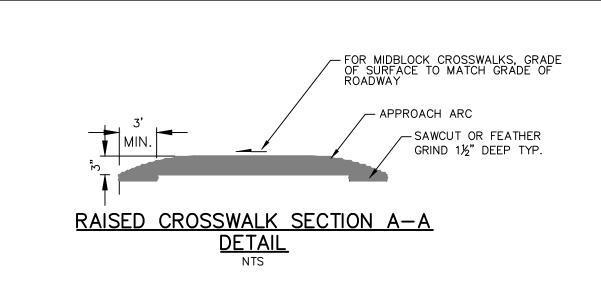


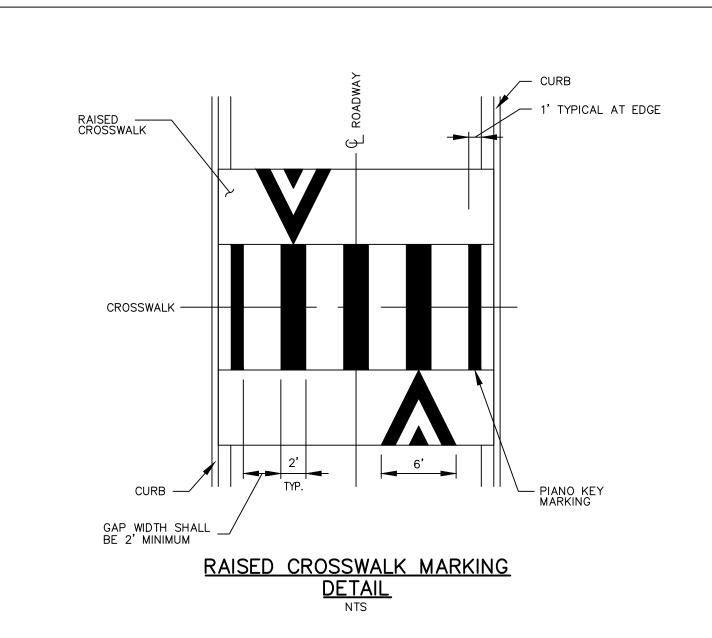
2. CLEAN-OUT PROTECTION SLEEVES ARE TO BE INSTALLED FOR CLEAN-OUTS LOCATED IN LAWN AREAS, OR MORE THAN 3 FEET FROM A PAVED AREA.

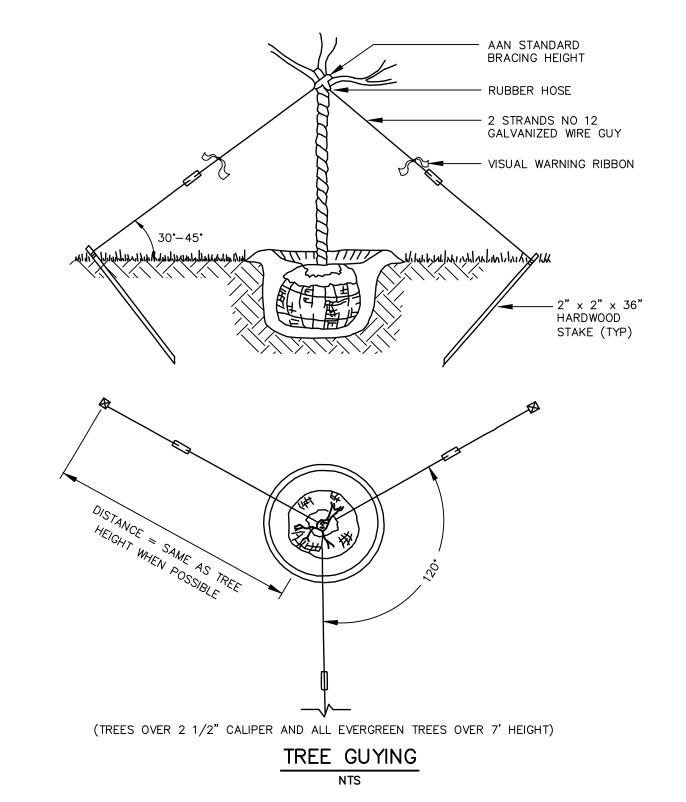
FRAME AND COVER SHALL BE PHILADELPHIA / PITTSBURGH STYLE OR APPROVED EQUAL













ROAD 10

6/19/2023

2211190108 221119

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JLK

NTS

OF 10 SHEETS

DRAWING NUMBER CJ-504

DATE

CADD FILE

JOB NO

DSG BY

DWN BY

CKD BY

DRAWER NUMBER

SCALE

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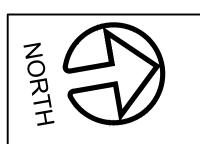
630 Freedom Business Ctr., 3rd Fl. King of Prussia, PA 19406 Phone: 610-489-5100

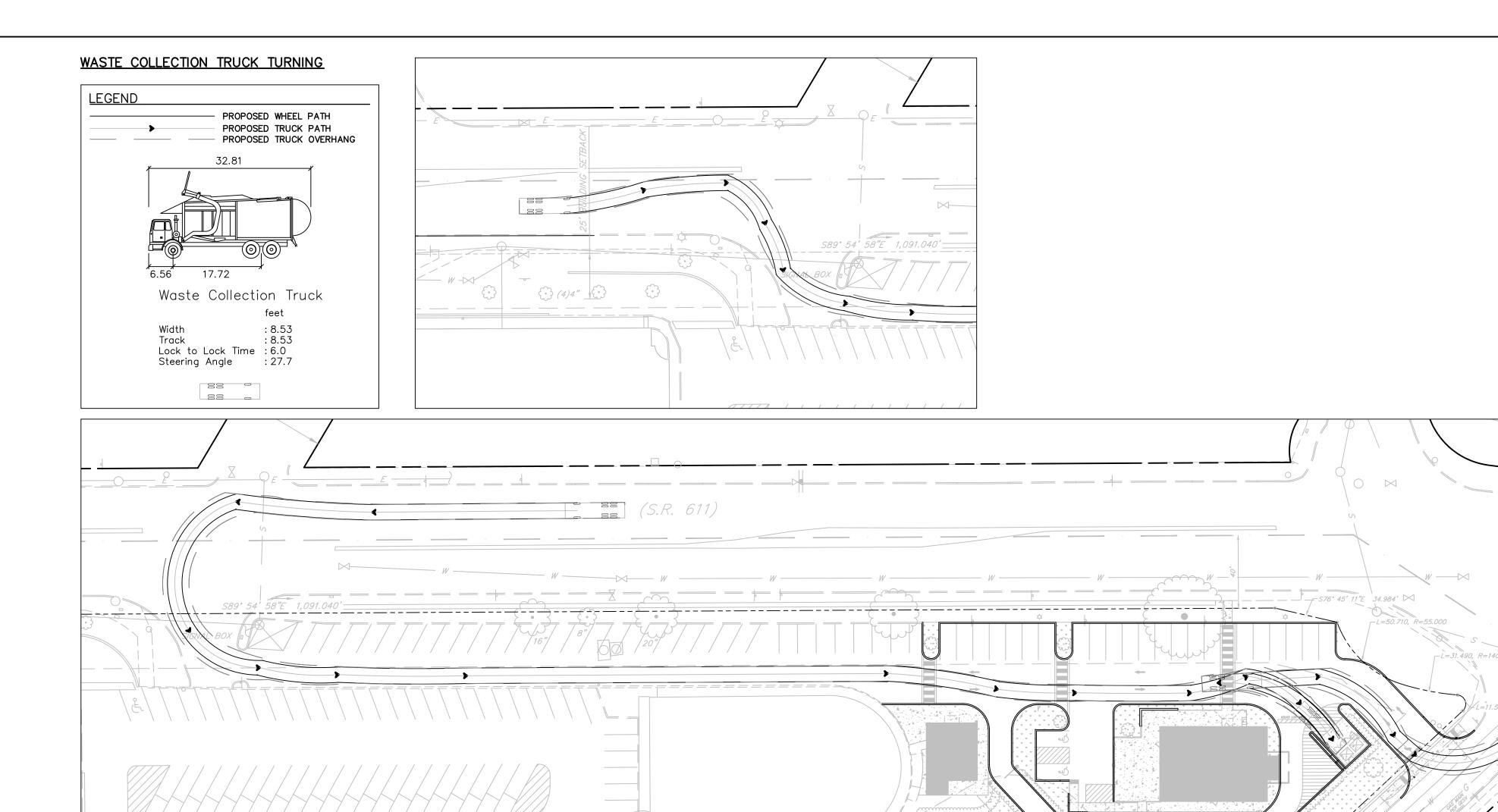
105 Raider Boulevard, Suite 206 Hillsborough, NJ 08844 Phone: 908-874-7500 Fax: 908-874-5762 101 Lindenwood Drive, Suite 225

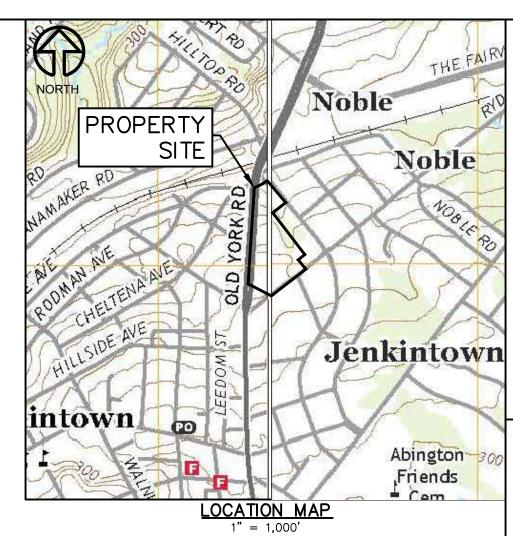
949 . EASTON . ROAD WARRINGTON, . PA . 18976 PHONE: 2 1 5 . 3 4 3 . 5 7 0 0 FAX: 2 1 5 . 3 4 3 . 0 8 7

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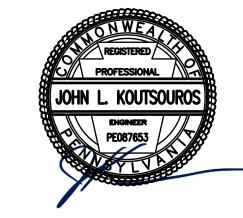








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ROAD

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DWN BY JLK 1" = 20' CKD BY SCALE DRAWER NUMBER SHEET <u>10</u>

GRAPHIC SCALE

(IN FEET)

1 inch = 40 ft.

OF 10 SHEETS DRAWING NUMBER C - 103

E-ONE QUEST 100' AERIAL PLATFROM TRUCK TURNING

- PROPOSED WHEEL PATH PROPOSED TRUCK PATHPROPOSED TRUCK OVERHANG E—One Quest 100' Aerial Platform : 8.33 : 8.33 Lock to Lock Time : 6.0 Steering Angle : 38.3 88 -

