PRELIMINARY/FINAL LAND DEVELOPMENT PLAN PROPOSED PARKING STRUCTURE #250 KING OF PRUSSIA ROAD RADNOR TOWNSHIP, DELAWARE COUNTY, PENNSYLVANIA

PLAN PURPOSE STATEMENT:

THE APPLICANT PROPOSES THE CONSTRUCTION OF A PARKING STRUCTURE TO IMPROVE THE EXISTING NON-CONFORMITIES OF THE PROPERTY RELATED TO PARKING STALL SUPPLY



DCPD No
PROCESSED AND REVIEWED REPORT PREPARED BY DELAWARE COUNTY PLANNING DEPARTMENT IN ACCORDANCE WITH THE MUNICIPALITIES PLANNING CODE.
FOR THE DIRECTOR

DELAWARE COUNTY PLANNING DEPARTMENT



SHEET TITLE	SH
COVER SHEET	
RECORD PLAN	
EXISTING CONDITIONS / DEMOLITION PLAN	E
EROSION and SEDIMENT CONTROL PLAN & NOTES	
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PROFILES & CONSTRUCTION DETAILS	
VEHICLE CIRCULATION PLAN	

SECRETARY

TOWNSHIP ZONING OFFICER





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COLLER REAL	
So IFE RB CEFELT	TOWNSHIP ENGINEER SIGNATURE BLOCK
E WISTAR RD	REVIEWED AND APPROVED BY THE RADNOR TOWNSHIP ENGINEER THIS DAY OF
Saint Marys	
Seminary	TOWNSHIP ENGINEER
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N SPIN	PLAN PREPARER'S STATEMENT
ASHWOOD RD Villanova University BROUG	I HEREBY CERTIFY THAT THE PLAN SHOWN AND DESCRIBED HEREON, AS A DRAWINGS AND DOCUMENTS SUBMITTED HEREWITH, ARE TRUE AND COR REQUIRED BY, AND ARE IN COMPLETE COMPLIANCE WITH, THE RADNOR TO LAND DEVELOPMENT ORDINANCE AND THE RADNOR TOWNSHIP ZONING O PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND FOR WHICH I RESPONSIBILITY.
ED ESO	DATUAPONT
Villanova D RO	DATE PLAN PREPARER'S SIGNATURE
Augustinian ALDWYN ⁺ LN Community	D. ALEXANDER TWEEDIE, PE - PA LIC. No. 071873 LANDCORE ENGINEERING CONSULTANTS, PC. PO BOX 37635 # 65287 PHILADELPHIA, PENNSYLVANIA 19101-0635
Cem Cem	
OF TRIANON LN	OWNER'S ACKNOWLEDGEMENT
	COMMONWEALTH of PENNSYLVANIA : COUNTY of DELAWARE :
	BDN 250 KING OF PRUSSIA I, LP. ACKNOWLEDGES THEY ARE THE OWNER O
	THESE PLANS WERE PREPARED WITH THEIR FREE CONSENT, AND THEY DE
	PRESIDENT, BDN 250 KING OF PRUSSIA I ,LP.
	SECRETARY, BDN 250 KING OF PRUSSIA I ,LP.
	(SEAL)
	MY COMMISSION EXPIRES:
	I,, ON THIS DATE OF, ON THIS DATE OF, ACKNOWLEDGE THAT ANY REVISIONS TO THE APPROVE DRAINAGE PLAY
	MUNICIPALITY AND THAT A REVISED EROSION AND SEDIMENT CONTROL PLA CONSERVATION DISTRICT FOR A DETERMINATION OF ADEQUACY.
	DATE OWNER'S SIGNATURE BDN 250 KING OF PRUSSIA I, LP
SALDO WAIVER REQUEST LIST:	7
255-12.A TO PERMIT PRELIMINARY AND FINAL LAND DEVELOPMENT TO BE FILED AS A SINGLE APPLICATION 255-20.B(1)(n) FROM SHOWING EXISTING IMPROVEMENTS WITHIN 500 FEET OF THE PROJECT SITE	I, D. ALEXANDER TWEEDIE, P.E., ON THIS DATE OF MAY 19, 2021, HEREBY CE MEETS ALL DESIGN STANDARDS AND CRITERIA OF THE RADNOR TOWNSH ORDINANCE EXCEPT FOR SPECIFIC WAIVERS OF STRICT CONFORMANCE ARE
255-29.A.(6) TO PERMIT MORE THAN 10 CONTINUOUS PARKING SPACES WITHOUT A CURBED LANDSCAPING ISLAND	05/19/2021 DATE PLAN PREPARER'S SIGNATURE
255-29.B TO WAIVE PARKING LOT LANDSCAPE REQUIREMENTS 255-38.B. TO WAIVE STREET TREE PLANTING REQUIREMENTS	D. ALEXANDER TWEEDIE, PE - PA LIC. No. 071873 LANDCORE ENGINEERING CONSULTANTS, PC.
255-43.1 TO WAIVE PARK AND RECREATION LAND/FEE REQUIREMENTS	PU BUA 37033 # 00287 PHILADELPHIA, PENNSYLVANIA 19101-0635
PLANS PREPARED BY	
	PLANS F

255-29.B	TO WAIVE PARKING LOT LANDSCAPE REQUIREMENTS
255-38.B.	TO WAIVE STREET TREE PLANTING REQUIREMENTS
255-43.1	TO WAIVE PARK AND RECREATION LAND/FEE REQUIREMENTS

PLANS PRE ANDCOF Consultants, P.C. Engineering PO BOX 37635 #65287 PHONE 215-836-2510 | EFAX 215-352-0428 PHILADELPHIA, PENNSYLVANIA 19101-0635 LANDCORECONSULTING.COM



	-			
REQUIREMENT	QTY	CALCULATION	REQUIRED	
OFFICE USE (5,000 SF - 20,000 SF) 1 SPACE / AREA	-	NA		
OFFICE USE (> 20,000 SF): 1 SPACE + 1SPACE PER ADDT 50,000 SF OVER 20,000 SF	EXISTING	127,998	1+ (120,000 - 20,000) / 50,000 *	3.0
	PROPOSED	127,667	1+ (120,000 - 20,000) / 50,000 *	3.0
		REQUIRED	PROPOSED	
MINIMUM LOADING SPACE SIZE (FT)		12 W X 30 L	12 W X 30 L	
(V) VARIANCE REQUIRED (EX) EXISTING NON-CONFORMANCE (W) WAIVER REQESTED				

EXISTING CONDITIONS / DEMOL	ITION PLAN LEGEND
	ITEM TO BE REMOVED
	PROPERTY LINE (PIQ)
	PROPERTY LINE (ROW)
	EASEMENT LINE
000	SOILS TYPE BOUNDARY LINE
	TREELINE
	SAWCUT LIMITS
	OVERHEAD WIRES
	OVERHEAD WIRES
	SANITARY MAIN
	MAJOR CONTOUR
	MINOR CONTOUR
	STORM SEWER MAIN

SHIP				
FORMULA				
	NEW PLANTIN	GS REQUIRED		
UIRED MENT PER TREE	REQUIRED LARGE CANOPY REPLACEMENT TREES	TOTAL REQUIRED REPLACEMENT TREES		
	0	20		
	2	3		
	0	0		
TOTALS	2	23		

30				() 1	5 3	30	60
								1
GF	GRAPHIC SCALE							

DELAWARE COUNTY EROSION & SEDIMENT CONTROL PLAN STANDARD NOTES VEHICLES AND EQUIPMENT MAY NEITHER ENTER DIRECTLY TO NOR EXIT DIRECTLY FROM LOTS — NA STOCKPILE HEIGHTS MUST NOT EXCEED 35 FEET. STOCKPILE SLOPES MUST BE 2:1 OR FLATTER. THE OPERATOR SHALL ASSURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED. UNTIL THE SITE ACHIEVES FINAL STABILIZATION, THE OPERATOR SHALL ASSURE THAT THE BEST MANAGEMENT PRACTICES ARE IMPLEMENTED, OPERATED, AND MAINTAINED PROPERLY AND COMPLETELY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL BEST MANAGEMENT PRACTICE FACILITIES. THE OPERATOR SHALL MAINTAIN AND MAKE AVAILABLE TO LOCAL CONSERVATION DISTRICT COMPLETE, WRITTEN INSPECTION LOGS OF ALL THOSE INSPECTIONS. ALL MAINTENANCE WORK, INCLUDING CLEANING, REPAIR, REPLACEMENT, REGRADING, AND RESTABILIZATION SHALL BE PERFORMED IMMEDIATELY. 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 ACCELERATED EROSION AND/OR SEDIMENT POLI UTION BEFORE INITIATING ANY REVISIONS 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 LOCAL CONSERVATION DISTRICT. THE OPERATOR SHALL ASSURE THAT AN EROSION AND SEDIMENT CONTROL PLAN HAS BEEN PREPARED, APPROVED BY THE LOCAL CONSERVATION DISTRICT, AND IS BEING IMPLEMENTED AND MAINTAINED FOR ALL SOIL AND/OR ROCK SPOIL AND BORROW AREAS. REGARDLESS OF THEIR LOCATIONS. ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE THROUGH A SEDIMENT CONTROL BMP. SUCH AS A PUMPED WATER FILTER BAG DISCHARGING OVER NON-DISTURBED AREAS. THE OPERATOR IS ADVISED TO BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS OF THE APPENDIX 64, EROSION CONTROL RULES AND REGULATIONS, TITLE 25, PART 1, DEPARTMENT OF ENVIRONMENTAL PROTECTION, SUBPART C, PROTECTION OF NATURAL RESOURCES, ARTICLE III, WATER RESOURCES, CHAPTER 102. EROSION CONTROL. 10. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE E&S CONTROL PLAN MAPPING MUST DISPLAY A PA ONE CALL SYSTEM INCORPORATED SYMBOL INCLUDING THE SITE IDENTIFICATION NUMBER. (THIS IS A NUMBERED SYMBOL NOT A NOTE.) ONLY LIMITED DISTURBANCE WILL BE PERMITTED TO PROVIDE ACCESS TO ______ FOR GRADING AND ACOUIRING BORROW TO CONSTRUCT THOSE BMP'S. (INSERT TYPE OF BMP FOR WHICH BORROW IS NEEDED.) NA EROSION AND SEDIMENT BMP'S MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THE TRIBUTARY AREAS OF THOSE BMP'S. 14. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMP CONTROLS MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE BMP'S MUST BE STABILIZED IMMEDIATELY. 15 AT LEAST 7 DAYS BEFORE STARTING ANY FARTH DISTURBANCE ACTIVITIES. THE OPERATOR SHALL INVITE ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES. THE LANDOWNER, ALL APPROPRIATE MUNICIPAL OFFICIALS. THE EROSION AND SEDIMENT CONTROL PLAN PREPARER, AND THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE MEETING. ALSO, AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM INCORPORATED AT 1-800-242-1776 FOR BURIED UTILITIES LOCATIONS. 16. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE OF CONSTRUCTION. EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE.

N20°3'30"E -

26.51'

N26°39'30"W __

N20°03'30"E ---

21.00'

13.00'

R = 60.00'_

∐ = 50.65'

 $\Delta = 48^{\circ}22'00''$

CHD ⊨ 49.16'

CHB = N07°49'30"E

 IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE, THE OPERATOR SHALL STABILIZE ANY AREAS DISTURBED BY THE ACTIVITIES. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE SPECIFIED RATES. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE REDISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE PERMANENT VEGETATIVE STABILIZATION SPECIFICATIONS.
 AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.
 INSTALL STABILIZED ROCK CONSTRUCTION ENTRANCE AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN.
 INSTALL INLET FILTER BAGS ON ALL EXISTING DOWNSTREAM INLETS.

 BEGIN DEMOLITION.
 INITIATE NECESSARY SITE EARTHWORK TO ACHIEVE THE GRADES INDICATED ON THE DRAWINGS. ENSURE MAINTENANCE OF SEDIMENT CONTROL FACILITIES.
 INSTALL UNDERGROUND UTILITIES.
 CONSTRUCT STORM SEWERS. INSTALL INLET FILTERS AS STRUCTURES ARE COMPLETED.
 CONSTRUCT FULL-DEPTH PAVEMENT, CURB, ETC. OF PARKING STRUCTURE GROUND LEVEL TO FINISHED GRADES.
 PROVIDE TEMPORARY AND/OR PERMANENT STABILIZATION AS REQUIRED. PRIOR TO INITIATION OF STRUCTURE CONSTRUCTION, SUFFICIENT STABILIZATION OF SURROUNDING AREAS AND ADEQUATE STABLE STAGING AND PARKING MUST BE PROVIDED.
 INITIATE PARKING STRUCTURE CONSTRUCTION.
 CONTINUE WITH THE BALANCE OF THE EARTHWORK AND INSTALL CURBING, SIDEWALKS, ETC.
 INSTALL BINDER COURSE FOR REMAINDER OF ALL PAVEMENT AND CONCRETE AREAS.
 INSTALL PERMANENT VEGETATION INCLUDING ALL LANDSCAPING AND GRASSED AREAS.

UPON COMPLETION OF SITE WORK, INCLUDING GRADING, UTILITIES, LANDSCAPING, CONCRETE WORK, ETC., INSTALL FINAL PAVEMENT WEARING COURSE.
 PERMANENTLY STABILIZE ALL DISTURBED AREAS. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.
 UPON SITE STABILIZATION (UNIFORM COVERAGE OR DENSITY OF 70% ACROSS ALL DISTURBED AREAS) AND AUTHORIZATION FROM THE DELAWARE COUNTY CONSERVATION DISTRICT, REMOVE ALL REMAINING EROSION AND SEDIMENT POLLUTION CONTROL BMPS (SILT FENCE, INLET PROTECTION, ETC.). ANY AREA DISTURBED DURING THE REMOVAL OF THE EROSION AND SEDIMENT POLLUTION CONTROL BMPS MUST BE STABILIZED IMMEDIATELY. UPON COMPLETION OF ALL OTHER SITE CONSTRUCTION ACTIVITIES, INSTALL FINAL WEARING COURSE, SIGNAGE AND STRIPING. DEMOBILIZE.
 UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES, REMOVAL OF ALL TEMPORARY BMPS AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OPERATORS SHALL CONTACT THE COUNTY CONSERVATION DISTRICT FOR A FINAL INSPECTION.
 UTILITY LINE TRENCH EXCAVATION NOTES

 LIMIT ADVANCED CLEARING AND GRUBBING OPERATIONS TO A DISTANCE EQUAL TO TWO TIMES THE LENGTH OF PIPE INSTALLATION THAT CAN BE COMPLETED IN ONE DAY.
 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.
 ALL SOIL EXCAVATED FROM THE TRENCH WILL BE PLACED ON THE UPHILL SIDE OF THE TRENCH.
 LIMIT DAILY TRENCH EXCAVATION TO THE LENGTH OF PIPE PLACEMENT, PLUG INSTALLATION AND BACKFILLING THAT CAN

BE COMPLETED THE SAME DAY. WATER WHICH ACCUMULATES IN THE OPEN TRENCH WILL BE COMPLETELY REMOVED BY PUMPING BEFORE PIPE PLACEMENT AND / OR BACKFILLING BEGINS. WATER REMOVED FROM THE TRENCH SHALL BE PUMPED THROUGH A FILTRATION DEVICE.

 ON THE DAY FOLLOWING PIPE PLACEMENT AND TRENCH BACKFILLING, THE DISTURBED AREA WILL BE GRADED TO FINAL CONTOURS AND IMMEDIATELY STABILIZED.
 SOILS EXCAVATED FROM EXISTING SURFACE LAYER SHOULD BE STOCKPILED SEPARATELY AND RETURNED AS FINAL SURFACE LAYER FOLLOWING TRENCH BACKFILLING.

PERMANENT STABILIZATION NOTES:

A. <u>STANDARD FOR SEEDING AND SOIL TREATMENT FOR PERMANENT VEGETATIVE COVER</u>: a. <u>SITE PREPARATION</u>:

 GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, ANCHORING AND MAINTENANCE.
 ii. SUBSOIL SHOULD BE TESTED BY A REPUTABLE LABORATORY FOR THE LIME REQUIREMENT; AND LIMESTONE, IF NEEDED, SHOULD BE APPLIED TO BRING SOIL PH TO 6.5 AND INCORPORATED INTO THE

SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF FOUR (4) INCHES.
3. iii. IMMEDIATELY PRIOR TO TOPSOIL DISTRIBUTION, THE SURFACE SHOULD BE SCARIFIED TO PROVIDE A GOOD BOND WITH THE TOPSOIL.
APPLYING TOPSOIL:

AREAS WHICH ARE TO BE TOP-SOILED 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, I.E. YARDS.
1. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING SOIL STRUCTURE.

 UNIFORM APPLICATION TO A DEPTH OF FIVE (5) INCHES (UNSETTLED) IS RECOMMENDED. SOILS WITH A PH OF 4.0 OR LESS, OR CONTAINING IRON SULFIDE, SHALL BE COVERED WITH A MINIMUM DEPTH OF TWELVE (12) INCHES OF SOIL HAVING A PH OF 6.0 OR MORE.
 SEED BED PREPARATION:

PERFORM ALL CULTURAL OPERATIONS AT RIGHT ANGLES TO THE SLOPE.
 APPLY 10-20-20 OR EQUIVALENT RATED FERTILIZER AT A RATE OF 500 LBS./ACRE OR 11 LBS./1,000 S.F.

 APPLY 300 LBS. OF 38-0-0 PER ACRE OR EQUIVALENT OF SLOW RELEASE NITROGEN.
 APPLY PULVERIZED DOLOMITIC LIMESTONE AT A RATE OF 4.0 TON/ACRE OR 184 LBS./1,000 S.F.
 WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF FOUR (4) INCHES. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM FINE SEEDBED IS PREPARED.
 REMOVE FROM THE SURFACE ALL STONES TWO (2) INCHES OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBRIS SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS OR

OTHER UNSUITABLE MATERIAL. 7. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RE-TILLED AND FIRMED AS ABOVE. GENERAL SEEDING RATES: PERENNIAL RYEGRASS 1/2 LB./1,000 S.F.

 PERENNIAL RYEGRASS
 1/2 LB./1,000 S.F.

 KENTUCKY BLUEGRASS
 1.0 LB./1,000 S.F.

 RED FESCUE
 1-1/2 LBS./1,000 S.F.

 SPREADING FESCUE
 1-1/2 LBS./1,000 S.F.

 FERTILIZER (20-10-10)
 14 LBS./1,000 S.F. (OR 3 TONS/ACRE)

 HAY OR STRAW MULCH
 138 LBS./1,000 S.F. (OR 3 TONS/ACRE)

ERNST 5311 CONSERVATION MIX (ERNMX-114) SEEDING RATES: FESTUCA RUBRA, PENNALAWN POA PRATENSIS, ALENE POA PRATENSIS, CACHE LOLIUM MULITIFLORUM

LOLIUM PERENNE PENNLAWN CREEPING RED FESCUE ALENE KENTUCKY BLUEGRASS CACHE KENTUCKY BLUEGRASS

ANNUAL RYEGRASS TURF TYPE PERENNIAL RYEGRASS 4 LB./1,000 S.F.

FERTILIZER (20-10-10)14 LBS./1,000 S.F.HAY OR STRAW MULCH138 LBS./1,000 S.F. (OR 3 TONS/ACRE)IRRIGATION - (WHERE FEASIBLE):

 i. WATER A MINIMUM OF 1/4" TWICE A DAY UNTIL VEGETATION IS WELL ESTABLISHED, ESPECIALLY WHEN SEEDING IS PERFORMED IN ABNORMALLY DRY OR HOT WEATHER OR ON DROUGHTY SITES.
 B. STANDARD FOR PERMANENT STABILIZATION WITH SOD:

a. METHODS AND MATERIALS: 1. CULTIVATED SOD IS PREFERRED OVER NATIVE OR PASTURE SOD. SPECIFY "CERTIFIED SOD", OR OTHER

HIGH-QUALITY CULTIVATED SOD.SOD SHOULD BE FREE OF WEEDS AND UNDESIRABLE COARSE WEEDY GRASSES.SOD SHOULD BE OF UNIFORM THICKNESS, APPROXIMATELY 5/8 INCH, PLUS OR MINUS 1/4 INCH, AT

 SOD SHOULD BE OF OWN OWN THICKNESS, AT ROXIMATELY S/S INCH, TEOS OR WINOS 1/4 INCH, AT THE TIME OF CUTTING (EXCLUDES TOP GROWTH).
 SOD SHOULD BE VIGOROUS AND DENSE AND BE ABLE TO RETAIN ITS OWN SHAPE AND WEIGHT WHEN

SUSPENDED VERTICALLY WITH A FIRM GRASP FROM THE UPPER 10% OF THE STRIP. BROKEN PADS OR TORN AND UNEVEN ENDS WILL NOT BE ACCEPTABLE.5. FOR DROUGHT/DRY SITES, A SOD OF KENTUCKY 31 TALL FESCUE AND BLUEGRASS IS PREFERRED OVER

A STRAIGHT BLUEGRASS SOD.
ONLY MOIST, FRESH, UN-HEATED SOD SHOULD BE USED. SOD SHOULD BE HARVESTED, DELIVERED AND INSTALLED WITHIN A PERIOD OF 36 HOURS, OTHERWISE IT SHALL BE REJECTED.

SITE PREPARATION: 1. SEE STANDARD FOR LAND GRADING. SOIL PREPARATION:

 SEE SPECIFICATION FOR SEEDING AND SOIL TREATMENT FOR PERMANENT VEGETATIVE COVER.
 SOD PLACEMENT:
 SOD STRIPS SHOULD BE LAID ON THE CONTOUR, NEVER UP AND DOWN THE SLOPE, STARTING AT THE BOTTOM OF THE SLOPE AND WORKING UP. ON STEEP SLOPES, THE USE OF LADDERS WILL FACILITATE THE WORK AND PREVENT DAMAGE TO THE SOD. DURING PERIODS OF HIGH TEMPERATURE, LIGHTLY

IRRIGATE THE SOIL IMMEDIATELY PRIOR TO APPLYING THE SOD.
PLACE SOD STRIPS WITH SNUG EVEN JOINTS THAT ARE STAGGERED. OPEN SPACES WILL RESULT IN EROSION AND SEDIMENT POLLUTION.
ROLL OR TAMP SOD IMMEDIATELY FOLLOWING PLACEMENT TO ENSURE SOLID CONTACT OF ROOT

 ROLL OR TAMP SOD IMMEDIATELY FOLLOWING PLACEMENT TO ENSURE SOLID CONTACT OF ROOT MAT AND SOIL SURFACE. DO NOT OVERLAP SOD. ALL JOINTS SHOULD BE BUTTED TIGHTLY IN ORDER TO PREVENT VOIDS, WHICH WOULD CAUSE DRYING OF THE ROOTS.
 ON SLOPES GREATER THAN 3:1, SECURE SOD TO SURFACE SOIL WITH WOOD PEGS, WIRE STAPLES, OR SPLIT SHINGLES (8 TO 10 INCHES LONG BY 3/4 INCH WIDE).

SPLIT SHINGLES (8 TO 10 INCHES LONG BY 3/4 INCH WIDE).
SURFACE WATER CANNOT ALWAYS BE DIVERTED FROM FLOWING OVER THE FACE OF THE SLOPE, BUT A CAPPING STRIP OF HEAVY JUTE OR PLASTIC NETTING, PROPERLY SECURED, ALONG THE CROWN OF THE SLOPE AND EDGES WILL PROVIDE EXTRA PROTECTION AGAINST LIFTING AND UNDERCUTTING OF SOD. THE SAME TECHNIQUE CAN BE USED TO ANCHOR SOD IN WATER-CARRYING CHANNELS AND

OTHER CRITICAL AREAS. WIRE STAPLES MUST BE USED TO ANCHOR NETTING IN CHANNEL WORK.
6. PENETRATE THE SOIL LAYER BENEATH THE SOD TO A DEPTH OF 4 INCHES. MAINTAIN OPTIMUM MOISTURE FOR AT LEAST TWO (2) WEEKS.
TOPDRESSING:
1. IF SLOW RELEASE NITROGEN (300 LBS. OF 38-0-0 PER ACRE OR EQUIVALENT) IS USED IN ADDITION TO

 SUGGESTED FERTILIZER, THEN A FOLLOW-UP OF TOPDRESSING IS NOT MANDATORY.
 SPRING INSTALLATION OF SOD WILL REQUIRE AN APPLICATION OF FERTILIZER SUCH AS 10-20-10 OR EQUIVALENT AT 400 LBS./ACRE OR 10 LBS./1,000 S.F. BETWEEN MARCH 15 AND MAY 1.
 FALL INSTALLATION OF SOD WILL REQUIRE THE ABOVE BETWEEN SEPTEMBER 1 AND OCTOBER 15. TEMPORARY STABILIZATION NOTES

SURFACE STABILIZATION CRITERIA: ALL DENUDED SOIL SURFACES, INCLUDING SOIL STOCKPILES, ARE SUBJECT TO EROSION AND SHALL BE STABILIZED EITHER TEMPORARILY OR PERMANENTLY. DURING NON-GERMINATION PERIODS, MULCH MUST BE APPLIED AT RECOMMENDED RATES. CRUSHED STONE ON PAVEMENT SUB-GRADES IS CONSIDERED ADEQUATE STABILIZATION. ALL DISTURBED ZONES AND VEGETATED REGIONS SHALL BE STABILIZED, PREFERABLY WITH A PERMANENT TREATMENT AS FOLLOWS:

- A. <u>TEMPORARY COVER ON DISTURBED AREAS</u>: DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE RE-DISTURBED WITHIN ONE (1) YEAR MAY BE SEEDED AND MULCHED WITH A TEMPORARY COVER. PREPARATION OF THE SURFACE, FERTILIZATION AND SEEDING WITH EITHER ANNUAL OR WINTER RYE GRASS SHALL BE DONE IN COMPLIANCE WITH THE PENN STATE GUIDELINES UNDER "EROSION CONTROL & CONSERVATION PLANTING ON NON-CROPLAND".
- a. GROUND LIMESTONE SHALL BE APPLIED AT A RATE OF 1.0 TON/ACRE OR 46 LBS/1,000 S.F.
 b. FERTILIZER SHALL BE APPLIED AT 50-50-50 LBS/ACRE. (BOTH FERTILIZER AND LIMESTONE SHALL BE WORKED INTO THE SOIL TO A DEPTH OF FOUR (4) INCHES PRIOR TO SEEDING.)
- INTO THE SOIL TO A DEPTH OF FOUR (4) INCHES PRIOR TO SEEDING.)
 c. ANNUAL RYEGRASS SHALL BE APPLIED AT A RATE OF 48 LBS/ACRE OR 1.1 LB/1,000 S.F.
 d. WINTER RYEGRASS SHALL BE APPLIED AT A RATE OF 168 LBS/ACRE OR 3.9 LBS/1,000 S.F.
- WINTER RYEGRASS SHALL BE APPLIED AT A RATE OF 168 LBS/ACRE OR 3.9 LBS/1,000 S.F.
 e. AFTER SEEDING, MULCH WITH HAY OR STRAW AT 3.0 TONS/ACRE OR 138 LBS/ 1,000 S.F. (MULCHING IS MOST APPLICABLE TO THOSE AREAS SUBJECT TO PERIODIC DISTURBANCE AND REWORKING.)
- APPLICABLE TO THOSE AREAS SUBJECT TO PERIODIC DIS
 f. GENERAL INFORMATION:
 i. AREAS THAT FAIL TO GERMINATE MUST BE RE-SEEDED.
- ii. WHERE DISTURBED AREAS ARE DIFFICULT TO STABILIZE, NETTING SHOULD BE USED TO HOLD SEED AND MULCH IN PLACE. THIS IS ESPECIALLY IMPORTANT AROUND WATERCOURSES, WITHIN SWALES AND AREAS OF CONCENTRATED FLOWS, AND ON (STEEP) SLOPES.
- B. <u>STANDARD FOR STABILIZATION WITH MULCH</u>:
 a. PERFORM ALL CULTURAL OPERATIONS AT RIGHT ANGLES TO THE SLOPE.
- b. STRAW AND HAY MULCH SHOULD BE ANCHORED IMMEDIATELY AFTER APPLICATION TO PREVENT WIND BLOWING.
 c. GRADE AS NEEDED AND FEASIBLE. SEE STANDARD FOR LAND GRADING.
- d. PROTECTIVE MATERIALS TO BE USED:
 i. NON-ROTTED SMALL-GRAIN STRAW OR HAY AT 3.0 TONS/ACRE, SPREAD UNIFORMLY AT 140 LBS/1,000 S.F. AND ANCHORED WITH LIQUID MULCH BINDER; OR BY A HYDRO-SEEDER OR HYDRO-MULCHER. (USE IS LIMITED TO FLATTER SLOPES DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.)
 ii. LIQUID MULCH BINDERS: APPLY IMMEDIATELY AFTER PLACEMENT OF HAY OR STRAW MULCH TO MINIMIZE
- LIQUID MOLCH BINDERS: APPET IMMEDIATELY AFTER PLACEMENT OF HAY OR STRAW MOLCH TO MINIMIZE LOSS BY WIND OR WATER. IF EMULSIFIED ASPHALT (CONTAINING NO SOLVENTS OR OTHER DILUTING AGENTS TOXIC TO PLANT OR ANIMAL LIFE), APPLY AT A RATE OF 31 GAL/1,000 S.Y.
 C. STANDARD FOR LAND GRADING:
- a. DEFINITION: RESHAPING THE GROUND SURFACE BY GRADING TO PLANNED GRADES WHICH ARE DETERMINED BY TOPOGRAPHIC SURVEY AND LAYOUT.
 b. PROVISIONS SHALL BE MADE TO SAFELY CONVEY SURFACE WATER TO STORM DRAINS OR SUITABLE WATER
- COURSES AND TO PREVENT SURFACE RUNOFF FROM DAMAGING CUT FACES AND FILL SLOPES. c. ADJOINING PROPERTY(IES) SHALL BE PROTECTED FROM EXCAVATION AND FILLING OPERATIONS. d. TIMBER, LOGS, BRUSH, RUBBISH, ROCKS, STUMPS AND VEGETATIVE MATTER WHICH WILL INTERFERE WITH
- THE GRADING OPERATION OR AFFECT THE PLANNED STABILITY OF FILL AREAS SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH APPROVED DISPOSAL METHODS.
- e. FILL MATERIAL IS TO BE FREE OF BRUSH, RUBBISH, TIMBER, LOGS, VEGETATIVE MATTER AND STUMPS IN AMOUNTS THAT WILL BE DETRIMENTAL TO CONSTRUCTING STABLE FILLS.
- f. ALL FILLS SHALL BE COMPACTED SUFFICIENTLY FOR THEIR INTENDED PURPOSE AND AS REQUIRED TO REDUCE SLIPPING, EROSION OR EXCESS SATURATION. (REFER TO GEOTECHNICAL REQUIREMENTS OF THE PROJECT SITE FOR SPECIFIC STANDARD FOR FILL PLACEMENT AND COMPACTION.)
- g. ALL DISTURBED AREAS SHALL BE LEFT WITH A CLEAN AND FINISHED APPEARANCE AND SHALL BE PROTECTED FROM EROSION USING APPROVED EROSION AND SEDIMENT POLLUTION CONTROL BMPS.

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	STRUCTURE TABLE				
ID	TYPE	STRUCTURE INFO			
ST-01	CLEANOUT (12')	RIM/GRT: 368.00 SUMP: 364.00			
ST-02	ROOF DRAIN	RIM/GRT: 371.71 INV OUT (/ 12") : 369.61 SUMP: 369.11			
ST-03	15" FES	RIM/GRT: 370.88 INV IN (ST-04 / 15") : 368.00 SUMP: 367.50			
ST-04	MANHOLE (4' DIA)	RIM/GRT: 373.57 INV IN (ST-05 / 12") : 369.23 INV OUT (ST-03 / 15") : 369.03 SUMP: 368.86			
ST-05	YARD INLET 24"	RIM/GRT: 374.54 INV IN (ST-14 / 6"): 370.50 INV IN (ST-06 / 15"): 370.60 INV OUT (ST-04 / 12"): 369.30 SUMP: 369.12			
ST-06	MANHOLE (4' DIA)	RIM/GRT: 375.35 INV IN (ST-07 / 15") : 371.14 INV OUT (ST-05 / 15") : 370.94 SUMP: 370.44			
ST-07	C INLET	RIM/GRT: 375.60 INV IN (ST-08 / 15") : 371.38 INV OUT (ST-06 / 15") : 371.18 SUMP: 370.68			
ST-08	M INLET	RIM/GRT: 376.55 INV IN (ST-09 / 15") : 371.87 INV OUT (ST-07 / 15") : 371.67 SUMP: 370.16			
ST-09	C INLET	RIM/GRT: 379.25 INV IN (ST-11 / 12") : 372.51 INV OUT (ST-08 / 15") : 372.31 SUMP: 371.81			
ST-11	M INLET	RIM/GRT: 378.60 INV IN (ST-19 / 12") : 372.94 INV OUT (ST-09 / 12") : 372.74 SUMP: 372.24			
ST-12	M INLET	RIM/GRT: 377.20 INV OUT (ST-19 / 12") : 373.26 SUMP: 371.55			
ST-13	ROOF DRAIN	RIM/GRT: 373.83 SUMP: 371.23			
ST-14	EMERGENCY ELEVATOR PUMP DRAIN	RIM/GRT: 371.57 INV OUT (ST-05 / 6") : 371.00 SUMP: ???			
ST-15	DOG HOUSE MH	RIM/GRT: 370.20 INV IN (ST-16 / 15") : 364.50 SUMP: 364.00			
ST-16	CINLET	RIM/GRT: 369.85 INV OUT (ST-15 / 15") : 365.00 SUMP: 364.50			
ST-19	12"X12" WYE	RIM/GRT: 378.41 INV IN (ST-12 / 12") : 373.14 INV OUT (ST-11 / 12") : 373.14 SLIMP: 372.64			

	PIPE TAI	BLE	
PIPE RUN	SIZE	SIZE LENGTH (FEET)	
-	12" HDPE	20	0.0051
ST-02 -	12" HDPE	81	0.0200
ST-03 - ST-04	15" HDPE	80	0.0129
ST-04 - ST-05	12" HDPE	14	0.0052
ST-05 - ST-06	15" HDPE	69	0.0050
ST-06 - ST-07	15" HDPE	8	0.0050
ST-07 - ST-08	15" HDPE	58	0.0051
ST-08 - ST-09	15" HDPE	87	0.0051
ST-09 - ST-11	12" HDPE	47	0.0050
ST-11 - ST-19	12" HDPE	41	0.0050
ST-14 - ST-05	6" HDPE	10	0.0500
ST-16 - ST-15	15" RCP	38	0.0132
ST-19 - ST-12	12" HDPE	25	0.0048

N26°39'30"W _____ 21.00'

N20°3'30"E 26.51'

R = 60.00' L = 50.65' Δ = 48°22'00" CHB = N07°49'30"E CHD = 49.16'

GRA	GRADING and DRAINAGE PLAN LEGEND			
				MAJOR CONTOUR
				MINOR CONTOUR
				STORM SEWER MAIN
				PROP. MAJOR CONTOUR
				PROP. MINOR CONTOUR
				PROP. STORM SEWER MAIN
	— E —	—-E—	— Е ———	PROP. ELECTRIC SERVICE
	- OH	OH	OH	OVERHEAD WIRES
	—s—	s	S	- SANITARY MAIN
	—s—	s	—s—	PROP. SANITARY MAIN
				- SAWCUT LIMITS
				PROPERTY LINE (PIQ)
				- PROPERTY LINE (ROW)
\sim	~~~~	~~~~~	~~~~~	TREELINE

30				() 1	5 3	30	60
								þ
GR	AF	PH	IC	S	CALE			

	LAN	DSCAPE REC	QUIREMENTS CI	HART - RADNOR TOW	/NSHIP
Zoning Code Item	Requirement				Plan Proposed
Chapter 263	Tree replacement for	ormula			
	Size of tree removed 6-18"	Quantity Removed 20	Req. Replacement 1 tree	Total Replacement 20 trees	
	19-29"	1	3 trees	3 trees	
	30"+	0	6 trees	<u>0 trees</u> 23 trees	17 Shade trees
	Replacement trees	shall be 2-2.5" I	OBH.		30 Shrubs ^ (3 equiv.)
Z.O. 280-65.1 Buffer & Landscape Requirements	Along street lines, a provided.	landscaped str	ip of not less than 7	5' in width shall be	[variance requested] Existing nonconformity
S.O. 255-38	One (1) Street trees	, 2.5" cal., per 3	0' along both sides	of new streets and along	
Shade Trees	one or both sides o development.	f an existing stro	eet within the propo	sed subdivision or land	N/A
S.O. 255-42 Buffer Screens	Buffer screens are r along existing stree visual barrier betwe	equired betwee ts to soften visu een conflicting la	en subdivisions and l al impact, to screen and uses.	and developments and glare and to create a	
	Refer to Table Proposed use: Existing adjace	1. Nonresidential ent use: Nonresi	off-street parking (p dential off-street pa	barking garage) rking	N/A
	^ Replacement tree e Ornamental tr	quivalency proj ees at 2:1	oosal:		

		RAD TREE REP	NOR TOWNSHIP	ULA	
		REQUIRED LARGE		NEW PLANTIN	GS REQUIRED
DIAMETER AT BREAST HEIGHT (IN)	NUMBER REMOVED	CANOPY REPLACEMENT TREES PER REMOVED TREE	TOTAL REQUIRED REPLACEMENT TREES PER REMOVED TREE	REQUIRED LARGE CANOPY REPLACEMENT TREES	TOTAL REQUIRED REPLACEMENT TREES
6 - 18	20	0	1	0	20
19 - 29	1	2	3	2	3
30 +	0	4	6	0	0
			TOTALS	2	23

THE APPLICANT PROPOSES A FEE-IN-LIEU OF REQUIRED REPLACEMENT TREES.

1

N20°3'30"E 26.51'

			PLANT SCHEDULE					
				Min.	Min.	Min.		
Plan				Planting	Planting	Planting		
Symbol	Quantity	Botanical Name	Common Name	Caliper	Spread	Height	Remarks	Comments
Shade Tre	es						·	
AR	2	Acer rubrum 'October Glory'	'October Glory' Red Maple	2-2.5" cal.*	-	12-14'	B&B	Full, straight leader
QC	7	Quercus coccinea	Scarlet Oak	2-2.5" cal.*	-	12-14'	B&B	Full, straight leader
TD	1	Taxodium distitchum	Bald Cypress	2-2.5" cal.*	-	12-14'	B&B	Full, straight leader
ZS	7	Zelkova serrata	Japanese Zelkova	2-2.5" cal.*	-	12-14'	B&B	Full, straight leader
Ornament	tal Trees							
CC	3	Cercis canadensis	Eastern Redbud	-	-	8-10'	B&B	Multi-stem, Min. 5 stems
MV	3	Magnolia virginiana	Sweetbay Magnolia	-	-	8-10'	B&B	Multi-stem, Min. 5 stems
Shrubs**								
CS	14	Cornus sericea	Red Twig Dogwood	-	-	24-30"	CONT	Heavy, full specimen
IG	6	llex glabra	Inkberry	-	-	18-24"	CONT	Heavy, full specimen
IV	10	llex verticillata	Winterberry Holly	-	-	24-30"	CONT	Heavy, full specimen
*	Caliper at I	DBH (diameter breast height)						
**	Plant in co	ntinuous mulch bed (2-3" depth) until fully established						

vi/DROPBOX (LANDCORE)/PROJECTS\2020\200002 - BRT - RADNOR PA\DRAWINGS_SITE PLANS\ 3M LANDCORE @ 2021-5-20, 1:05 PM

	5						6					-	7	
				1						— R = 700.00' L = 207.33' D = 16°58'1	1"		M	
							0			CHB = S53 CHD = 206	°15'54"E .57'			
				371.36'								T	TICKET #: 202	2033
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				*°°°° *°°° *	0.0 <u>*</u> 0.0 <u>*</u> 0.0 0.0 <u>*</u> 0.0 <u>*</u> 0.0	<u>+0.0</u> +0.0 +0.	.0 .0.0 .0.1 .0.1	•0.1 •0.		0.1 0.1 0.1 0.2 0.2 0.2	+0.1 +0.1 +0.1 +	0.1 0.1 0.7 0.4 - 0.9 0.2	1 0.0 0.0 2 0.1 0.1	0.0
				*00 *0.0 * *0.0 *0.0	0.0 +0.0 +0.0 0.0 +0.0 +0.0	*0.0 +0.1 +0.	1 <u>0.2</u> <u>0.3</u> 2 <u>0.7</u> <u>1.2</u>	+0.5 +1.5 +1.5 +1.5	5 0.5 0.4 0.4 0.4 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	0.9 +0.8 +0.8 1.6 +1.6 +1.7	0.8 0.9	0.9 0.9 0.7		0.5 F 0.1 0.1 <u>1.0 F</u>
	2-31 BUILL 40,240 (157 & 2N	ORY DING 8/SF 1D/FL90F	2	+0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0 +0.0		•0.0 •0.1 •0.0 •0.1	3 +1.3 +2.1 CF-S-32L @ 14.5 4 +1.7 +3.2 5.	↓2.7 ↓2.9 5 FT ↓5.2 ↓6.: 5'	2.5 2.3 2.1 2.1 2.5 5 4.4 3.1 2.7 3.0 4.5 5	2.8 2.6 2.5 ECF-S-	2.5 2.2 2.5 2 32L @ 14.5 FT 3.0 3.1 4.2 4	2.6 2.2 1.7		•0.1
				*0.0 *0.0 *0.0 *0	.1 .0.1 .0.1	0.1 0.1 0.1 0.1 LBLCO-50 0.1 0.1 0.1	3 1.4 3.9 <u>00_180</u>	+82 -10		ECF-S-32L @ 14	<u>5 FT</u> <u>2.83</u> 2.7 <u>3.4</u> <u>5.8</u> 7 3 <u>1.1</u> <u>2.83</u>	.0 .4.6 .2.5		
				•0.1 •0.1 •0	1 0.1 0.1 LB	0.1 +0.1 +0.1 LCO-500_NS 0.3 +0.3 +0.2	+0.2 +0.2 +0.2 -0.2 -0.6		9 11 14 6 1.8 1.8 0 112 1.5 1.9 2.2 2.1	+ ^{1.8} + ^{1.8} + ^{1.6}		0.9 0.9	0.7 0.4	,0.1
				0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9		LBLCO-500 1.8 1.8 0.4	0.3 0.6 0_180 0.4 0.8		1.3 1.6 2.0 2.3 2.4	+2.4 +2.3 +2.0 ECF-S-48L_TWIN 1+1.5 +2.3 +2.1	1.6 1.3 1.0	,3.3 ,2.4	+1.5 1.0 1.8 1.1 1.0	0.4
					Q .1.2 .1.4 .1	2 - 0.7 / 0.4 / LBLCO-500 0 0 0.7 0.5	0,4 ,24 <u>180</u> 0.5 ,0.6	10.8 +1 10.4 +1	.3 ,1.6 ,2.0 ,2.4 ,2.7 ,2.8	<u>2.8</u> <u>2.7</u> <u>2.4</u>	2.0 <u>1.6</u> 1.3	ECF-S-32L		р.5 р.5
				, , 0.4 , 0.7	,0.4 ,0.4 ,0.4	<u>-PLCO-500_NS</u> <u>-PLCO-500_NS</u> <u>4</u> _0.6 1.1	.1.6 .2.3	• • • 3 • • • • 1 • • • • 1.	4 .1.8 .2.1 .2.5 .2.7 .2.7 5 .1.8 .2.1 .2.4 .2.6 .2.6	2.7 2.7 2.5	2.1 <u>18</u> 14	2.5 2.1 № 2.5 2.1	+1.5 (0.9) +C).4 ¹
				0.1 0.2	•0.1 •0.1	3 +0.6 // +1.3 ECF-S-32L @17. 2 +0.6 +1.3			4 <u>1.8</u> <u>2.1</u> <u>2.4</u> <u>2.6</u> <u>2.6</u>	2.6 <u>,</u> 2.6 ,2.4	.2.1 <u>,1.8</u> ,1.4	2.9 2.4	+1.6 +0.9 0	.3
			2ND STORY OVERHANG	+0.1 +0.1 WE +0.1 +0.1	•0.1 •0.1 • 0.1 • 0.1	2 0.6 w13	±1.8 _2.7	• ⁶⁻² − <u>1</u> . 34 − <u>1</u> .	4 1.7 2.1 2.5 2.8 2.8	2.8 ,2.9 ,2.5	2.0 16 13	+ ^{1.7} 0.0 ECF-S-32L + ^{7.0} 3.7	<u>•1.8</u> <u>1.0</u> •1 <u>@ 14.5 FT</u> <u>1</u> •1.9 •1.1 <u>1</u> •0.	.3 .13
			ENVE	,0,1 ,0,1 ,0,2 ,0,2	0.1 +0.1 +0.1 +0.2 +0.1 +0.2	+04 +0.9 1 -0.3 +0.9	+1.5 +1.9 +1.3 +1.6	2.0/171 ////////.5 //i 1-ip////////////////////////////////////	+1.6 +2.0 +2.3 +2.5 +2.9 2 +1.7 +2.1 +2.5 +2.8 +2.8 +2.8 +2.8	2.9 <u>2.5</u> 2.3 ECF-S-48L_TWIN 2.8 2.8 2.5	+2.0 +1.6 +1.3	3.4 2.5	1.6 0.9 0.	3 35° 2 ₂₍
				05,05	0.3 0.2 0/2 LPLCO-500_NS +0.4 +0.2 0.2		1.5 +1.9 + +1.8 +2.8 +	2.1 <u>+</u> 1.4 <u>3.6</u> <u>+</u> 1.4	, ^{1.8} , ^{2.1} , ^{2.5} , ^{2.8} , ^{2.7} , ²	2.7 ,2.8 ,2.5	+2.1 <u>1.8</u> 1.4	2.7 2.3	.1.4 ¹ , 0.6 1,1.51, d.6	2 1
				+0.8 +0.7 J	0.3 0.2 10.3	1 +0.7 +1.3	21 +3.8 +2 1 +3.9	5.2 □ _1.5	,1.8 ,2.1 ,2.4 ,2.5 ,2.6 ,2.7 ,2.	.6 <u>,</u> 2.5 <u>,</u> 2.4	2.1 -1.8 -1.6	,7.3 ,3.7	+1.7 +0.7 +0.1 +1.9 +0.9 +0.2	2
				↓0.2 - ↓0.2 ↓0.1 ↓0.1	•0.1 •0.1 •0.2 •0.1 •0.1 •0.1	+0.6 +1.1	1,8 <u>2.9</u> 4	1.0 .2 .2	<u>1.7</u> 2.1 2.5 <u>2.8</u> <u>2.8</u> <u>2</u>	7 <u>2.8</u> ,2.5	+2.1 +1.8 +1.4 +2.1 +1.7 +1.4	ECF-S-32L + ^{4.4}	2.0 10.9 0.2 <u>@ 14.5 FT</u> 1.7 0.7 0.1	
			0		•0.1 •0.1 •0.1 •0.0 •0.0 •0.1	,0,1 ,0.6	0.3 0.4 w	1 -1 	1.4 1.8 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1	· · · · · · · · · · · · · · · · · · ·	+ ^{1.8} + ^{1.4} + ^{1.1}	+ ^{2.3} + ^{1.9} +	12 0.4 0.1 0.4 0.2 0.1	+
Половира	LBLCO-500_180			<u>+0.0</u> +0.0	* ^{0.0} * ^{0.0} * ^{0.0}	•0.1 •0.1	0.0 +0.0 0.0 +0.0 0.0 +0.0 0.0 +0.0	0 .0 .0	1.2 1.5 1.9 2.2 2.1 2.1	5 _2.3 _2.0 CF-S-48L_TWIN	1.5 <u>1.2</u> <u>1.0</u>	+0.10.1	2⁄1 . 0.1 ₊0.8. 0.0 ₊0.0 ₊0.0	\neq
Image: Solution of the				*0.0 *0.0 *0.0 *00	*0.0 *0.0 *0.0	*0.0 *0.0 *	0.0 _0.0 _0.0	0 0.0		, 1.4 , 1.3	•1.3 •1.1 •0.9	*0.0 *0.0 *0 *0.0 *0.0 *0	7.0 _* 0.0 ^{b.0}	
Image: State of the s				• • • • • • • • • • • • • • • • • • •	0.0 0.0 0.0 0.0	*0.0 *0.0 *0	0.0 .0.0 .0.0 0.0 .0.0 .0.0	SHADED A ILLUMINA INDEPENDE	REA DENOTES 3rd STORY PARKING DECK LEVEL TION CALCULATIONS ARE ENT OF @ GRADE VALUES	*0.0 *0.0 *0.0	0.0 <u>0.0</u> <u>0.0</u>	*0.0 *0.0 *0 *0.0 *0.0 *0	2.0 20	
PARKEL OP OP <th< td=""><td></td><td></td><td></td><td>,0.0 ,0.0</td><td>0.0 0.0 0.0</td><td>*0.0 *0.0 *0</td><td>0.0 _0.0 _0.0</td><td>0.0 ,0.0 ,0</td><td>0.0 <u>0.0</u> 0.0 <u>0.0</u> 0.0 <u>0.0</u></td><td>+0.0 +0.0 +0.0</td><td>*0.0 *0.0 *0.0</td><td>*0.0 *0.0</td><td></td><td></td></th<>				,0.0 ,0.0	0.0 0.0 0.0	*0.0 *0.0 *0	0.0 _0.0 _0.0	0.0 ,0.0 ,0	0.0 <u>0.0</u> 0.0 <u>0.0</u> 0.0 <u>0.0</u>	+0.0 +0.0 +0.0	*0.0 *0.0 *0.0	*0.0 *0.0		
TAX MAP 36 BLOCK 150 NIF 43 PARCEL ID, NO, 36-02-0123-12 LANDS NF RODNOR FEE COWNER, LLC RS 5555 PG 1614 Z59 RADNOR CHESTER ROAD LICHT FIXTURE SCHEDULE LICHT FIXTURE SCHEDULE LOCK 150 NF ROSNIG 150 NF ROSNIG 150 NF ROSNIG 150 NF LICHT FIXTURE SCHEDULE LICHT FIXTURE SCHEDULE LICHT FIXTURE SCHEDULE LICHT FIXTURE SCHEDULE LICHT STRUCTURE NOT				* ^{0.0} * ^{0.0} *	0.0 *0.0 *0.0	*0.0 +0.0 N5	64°06°40"₩	*0.0 *0	° <u>0,0 ,0.0 ,0.0 ,0.0 ,0.0</u> ,0.0 ,0.0 ,0.0	•0.0 •0.0 •0.0	+0.0 +0.0 +0.0			
PARCEL ID, NO. 38-02-01233-12 LANDS N/F RADNOR FEE OWNER, LLC RB 5585 PG 1614 259 RADNOR CHESTER ROAD	5 P	TA BLOC	X MAP 36 K 15 UNIT 43	þ	-0-		<u>0</u> 0.00.0	* ^{0.0} * ^{0.}		0.0				
259 RADNOR CHESTER ROAD CIENTE SCHEEDUE PLAEN MOUNTING	PAR RA	CEL ID. N LA ADNOR F RB 55	NO. 36-02-01233- NDS N/F EE OWNER, LLC 85 PG 1614	-12	~~~~						$\left(\begin{array}{c} \cdot \\ \cdot \end{array}\right)$			
LIGHT FIXTURE SCHEDULE PLAN LABEL QTY MOUNTING HEIGHT MOUNTING TYPE BUG RATING LUMEN PER LAMP WATTAGE LLF DESCRIPTION MANUFACTURE / CATALOS NUMBER ECF-S-32L 8 SEE PLAN [1] WALL MOUNT B1 U0 G2 9.082 73 0.95 ECOFORM SMALL AREA LIGHT (32) LED @ 700 mA / 4.000K (32) LED @ 700 mA / 4.000K GARDOD by SIGNIFY ECF-S.32L_TO.NW-G2_WS_4_UNV_DAG0_PCB ECF-S-48L_TWIN 3 23.5 FT POLE TOP B5 U0 G3 19.424 159 0.95 ECOFORM SMALL AREA LIGHT (32) LED @ 1050 mA / 4.000K GARDOD by SIGNIFY ECF-S.32L_TO.NW-G2_WS_4_UNV_DAG0_PCB ECF-S-48L_TWIN 3 23.5 FT INEE WALL POLE TOP B5 U0 G3 19.424 159 0.95 ECOFORM SMALL AREA LIGHT (40) LED @ 1050 mA / 4.000K GARDOD by SIGNIFY ECF-S.32L_TO.NW-G2_WS_4_UNV_DAG0_PCB LBLC0-500_NS 22 2 FT BOLLARD B1 U4 G1 1.542 19.2 0.95 SERIES 500 LIGHT COLLMAR BOLLARD STRUELTOR DATE ENSING WARCHITECT FORMS + SURFACES by CREE LBLCO-504 EGO-504 LBLC0-500_180 5 2 FT BOLLARD B1 U4 G1 1.542 19.2 0.95 SERIES 500 LIGHT COLLMAR BOLLARD STRUELTS CONTING HEINST WARCHITECT FORMS + SURFACES	259	RADNOF	R CHESTER ROA	AD										
E0F-S-32L 8 SEE PLAN [1] WALL MOUNT B1 U0 G2 9.062 73 0.95 COCPORM SMALL AREA LIGHT (2) LEDs (2) MON (2) WDA (4.000K) TYPE 4 DISTRIBUTION COORDINATE FINISH W ARCHITECT GARDCO by SIGNIFY ECF-S.32L_700_NW-G2_WS_4_UNV_DA50_PCB ECF-S-48L_TWIN 3 23.5 FT INCLUDES 3.5 FT KNEE WALL POLE TOP B5 U0 G3 19.424 159 0.95 ECO-FORM SMALL AREA LIGHT (49) LEDs (20 S0 m A / 4.000K) COORDINATE FINISH W ARCHITECT GARDCO by SIGNIFY (2) ECF-S_38L_1A_NW-G2_AR_5W_UNV_DA50_PCB LBLCO-500_NS 22 2 FT BOLLARD B1 U4 G1 1.542 19.2 0.95 SERIES 500 LIGHT COLUMN BOLLARD 5 INCH TUBUAR STANLESS STEEL LIDCO-504 FORMS + SURFACES by CREE LBLCO-500_NS 3 7.04 FT BOLLARD B1 U4 G1 1.542 19.2 0.95 SERIES 500 LIGHT COLUMN BOLLARD 5 INCH TUBUAR STANLESS STEEL LIDCO-504 FORMS + SURFACES by CREE LBLCO-500_NS 3 7.04 FT POLE TOP B1 U5 G2 3.783 38.4 0.95 SERIES 500 LIGHT COLUMN PDESTRIAN COORDINATE FINISH W ARCHITECT FORMS + SURFACES by CREE LIDCO-5012 FORMS + SURFACES by CREE LIDCO-504_100 PERF LPLCO-500_NK 3 7.04 FT POLE TOP B1 U5 G2 3.783 38.4 0.95 SERIES 500 LIGHT CO	LIGHT FIXT	ΓURE ^{ατγ}	SCHEDULI MOUNTING HEIGHT	MOUNTING TYPE	BUG RATING	LUMEN PER LAMP	WATTAGE	LLF	DESCRIPTION		MANUFACT CATALOG N	URER / UMBER		
ECF-S-48L_TWIN 3 Isolate to the second	ECF-S-32L	8	SEE PLAN [1]	WALL MOUNT	B1 U0 G2	9,062	73	0.95	ECOFORM SMALL AREA LIGHT (32) LEDs @ 700 mA / 4,000K TYPE 4 DISTRIBUTION COORDINATE FINISH w/ ARCHITECT ECOFORM SMALL AREA LIGHT	GARD ECF-S	DCO by SIGNIFY 5_32L_700_NW-G2_WS_4_	_UNV_DA50_PCB	3	/
LBLCO-500_NS 22 2 FT BOLLARD B1 U4 G1 1,542 19.2 0.95 INCH TUBDELAR STAILLESS STEEL COORDINATE FINISH W/ ARCHITECT DCRMS + SURFACES by CREE LBLCO-504 LBLCO-500_180 5 2 FT BOLLARD B1 U4 G1 1,542 19.2 0.95 SERIES 500 LIGHT COLUMN BOLLARD 5 INCH TUBDELAR STAILLESS STEEL FORMS + SURFACES by CREE LBLCO-500_180 5 2 FT BOLLARD B1 U4 G1 1,542 19.2 0.95 SERIES 500 LIGHT COLUMN BOLLARD 5 INCH TUBDELAR STAILLESS STEEL FORMS + SURFACES by CREE LPLCO-500_NS 3 7.04 FT POLE TOP B1 U5 G2 3,783 38.4 0.95 SERIES 500 LIGHT COLUMN PEDESTRIAN 180 DEGREE PERFORATED SCHEEN COORDINATE FINISH w/ ARCHITECT FORMS + SURFACES by CREE LPLCO-500_NS 3 7.04 FT POLE TOP B1 U5 G2 3,783 38.4 0.95 SERIES 500 LIGHT COLUMN PEDESTRIAN 5 INCH TUBDLAR STAINLESS STEEL FORMS + SURFACES by CREE L11 MOUNTING HEIGHTS NOTED ON PLAN ARE BASED ON ARCHITECTURAL PLANS GROUND FLOOR 0 ELEVATION DATUM. FIXTURE MOUNTING HEIGHTS WERE ADJUSTED AND KORLED TO ACCURATELY REFLECT GRADE LEVEL FOOTCANDEL VALUES. SUMATT LED DRIVER @ 4,000K COORDINATE FINISH w/ ARCHITECT FORMS + SURFACES by CREE	ECF-S-48L_TWIN	3	23.5 FT INCLUDES 3.5 FT KNEE WALL	POLE TOP	B5 U0 G3	19,424	159	0.95	(48) LEDS @ 1050 MA / 4,000K TYPE 5 WIDE DISTRIBUTION COORDINATE FINISH w/ ARCHITECT SERIES 500 LIGHT COLUMN BOLLARD 5 INCH TUBULAR STANK FOR OTTEN	GARD (2) EC (POLE	CU DY SIGNIFY F-S_48L_1A_NW-G2_AR_ E) SSS_20_4_11_D2	5W_UNV_DA50_F	РСВ	/
LDEGG 000_100 3 Z F1 DOLLARD BT 04 G1 1,342 19.2 0.95 17 WAIT LED DRIVER @ 4,000K LBLC0-504_180_PERF LPLC0-500_NS 3 7.04 FT POLE TOP B1 U5 G2 3,783 38.4 0.95 SERIES 500 LIGHT COLUMN PEDESTRIAN 5 INCH TUBULAR STAINLESS STEEL 32 WATT LED DRIVER @ 4,000K FORMS + SURFACES by CREE [1] MOUNTING HEIGHTS NOTED ON PLAN ARE BASED ON ARCHITECTURAL PLANS GROUND FLOOR 0 ELEVATION DATUM. FORMS HEIGHTS WERE ADJUSTED AND MODELED TO ACCURATELY REFLECT GRADE LEVEL FOOTCANDLE VALUES. FORMS HEIGHTS WERE ADJUSTED AND MODELED TO ACCURATELY REFLECT GRADE LEVEL FOOTCANDLE VALUES.	LBLCO-500_NS	22	2 FT	BOLLARD	B1 U4 G1	1,542	19.2	0.95	17 WATT LED DRIVER @ 4,000K COORDINATE FINISH W/ ARCHITECT SERIES 500 LIGHT COLUMN BOLLARD 5 INCH TUBULAR STAINLESS STEEL	FORM	IS + SURFACES by CREE			
[1] MOUNTING HEIGHTS NOTED ON PLAN ARE BASED ON ARCHITECTURAL PLANS GROUND FLOOR 0 ELEVATION DATUM. 32 WATT LED DRIVER @ 4,000K LPLCO-512 [1] MOUNTING HEIGHTS WERE ADJUSTED AND MODELED TO ACCURATELY REFLECT GRADE LEVEL FOOTCANDLE VALUES. 32 WATT LED DRIVER @ 4,000K LPLCO-512	LPLCO-500 NS	5	2 FT	BOLLARD	ษา U4 G1 B1 U5 G2	3.783	19.2 38.4	0.95	17 WATT LED DRIVER @ 4,000K 180 DEGREE PERFORATED SCREEN COORDINATE FINISH W/ ARCHITECT SERIES 500 LIGHT COLUMN PEDESTRI/ 5 INCH TUBULAR STAINLESS STEEL		D-504_180_PERF			
	[1] MOUNTING HEIGHTS	S NOTED ON EIGHTS WEF	PLAN ARE BASED ON RE ADJUSTED AND MO	ARCHITECTURAL PL/	ANS GROUND FLOOP	R 0 ELEVATION D E LEVEL FOOTCA	ATUM. NDLE VALUES.	0.30	32 WATT LED DRIVER @ 4,000K COORDINATE FINISH w/ ARCHITECT		J-512			

	AVG fc	MAX. fc	MIN. fc	MAX / MIN	AVG / MIN
ROOFTOP PARKING AREA	1.9	2.9	0.8	3.6:1	2.4:1

\DROPBOX (LANDCORE)\PROJECTS\2020\200002 - BRT - RADNOR PA\DRAWINGS_SITE PLANS\10_DT_2 \M LANDCORE @ 2021-5-20, 1:05 PM

