PLANT SCHEDULE						
SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	COMMENTS
PARKING LOT SCHEDULE						
P-ZS	7	ZELKOVA SERRATA 'MUSASHINO'	MUSASHINO COLUMNAR ZELKOVA	3" CAL.	B&B	8' CLEAR BRANCH HT.
P-GB	6	GINGKO BILBOA	PRINCETON SENTRY GINGKO	2 $\frac{1}{2}$" CAL.	B&B	8-10' HT.
STREET TREE SCHEDULE						
CR	6	CERCIS CANADENSIS	EASTERN REDBUD	1 $\frac{1}{2}$" CAL.	B&B	5-6' HT.
BUFFER YARD PLANT SCHEDULE						
CANOPY TREES						
QR	2	QUERCUS RUBRA	RED OAK	2 $\frac{1}{2}$" CAL.	B&B	
QC	3	QUERCUS COCCINEA	SCARLET OAK	2 $\frac{1}{2}$" CAL.	B&B	
QP	3	QUERCUS PALUSTRIS	PIN OAK	2 $\frac{1}{2}$" CAL.	B&B	
EVERGREEN TREES						
PS	5	PINUS STROBUS	EASTERN WHITE PINE	MIN. 6' HT.	B&B	
PP	5	PICEA PUNGENS	COLORADO BLUE SPRUCE	MIN. 6' HT.	B&B	
FLOWERING TREES						
CR	1	CERCIS CANADENSIS	EASTERN REDBUD	1 $\frac{1}{2}$" CAL.	B&B	5-6' HT.
SHRUBS						
AA	3	ARONIA ARBUTIFOLIA 'BRILLIANTISSIMA'	BRILLIANT RED CHOKEBERRY	MIN. 3' HT.	MIN #5 CONT.	
BASIN NATURALIZATION SCHEDULE						
CF	5	CORNUS FLORIDA	WHITE AMERICAN DOGWOOD	1 $\frac{1}{2}$" CAL.	B&B	6-8' HT.
PR	4	PRUNUS X YEDOENSIS	YOSHINO CHERRY	1 $\frac{1}{2}$" CAL.	B&B	5-6' HT.
GENERAL LANDSCAPE SCHEDULE						
AR	2	ACER RUBRUM	RED MAPLE	2 $\frac{1}{2}$" CAL.	B&B	
TT	2	TILIA TOMENTOSA	SILVER LINDEN	2 $\frac{1}{2}$" CAL.	B&B	
BN	1	BETULA NIGRA	HERITAGE RIVER BIRCH	2 $\frac{1}{2}$" CAL.	B&B	
PS	4	PINUS STROBUS	EASTERN WHITE PINE	MIN. 6' HT.	B&B	
PP	2	PICEA PUNGENS	COLORADO BLUE SPRUCE	MIN. 6' HT.	B&B	
CR	4	CERCIS CANADENSIS	EASTERN REDBUD	1 $\frac{1}{2}$" CAL.	B&B	5-6' HT.
CF	1	CORNUS FLORIDA	WHITE AMERICAN DOGWOOD	1 $\frac{1}{2}$" CAL.	B&B	6-8' HT.
PR	2	PRUNUS X YEDOENSIS	YOSHINO CHERRY	1 $\frac{1}{2}$" CAL.	B&B	5-6' HT.
HA	1	HYDRANGEA ARBORESCENS	SMOOTH HYDRANGEA	MIN. 3' HT.	MIN #5 CONT.	
RC	2	RHODODENDRON CANADENSE	CANADA ROSEBAY	MIN. 3' HT.	MIN #5 CONT.	
MP	2	MYRICA PENNSYLVANICA	NORTHERN BAYBERRY	MIN. 3' HT.	MIN #5 CONT.	
HI	4	HAMAMELIX X INTERMEDIA	DIANE WITCH HAZEL	5-6' HT.	MIN #5 CONT.	

LANDSCAPE REQUIREMENTS

PARKING LOT LANDSCAPE
1 DECIDUOUS TREE, 2 $\frac{1}{2}$" CALIPER MEASURED 4'-0" ABOVE GRADE, SHALL BE REQUIRED FOR EVERY FIVE REQUIRED OFF-STREET SPACES.
TOTAL PARKING SPACES = 63
@ 1 TREE PER 5 SPACES = 13 TREES REQUIRED
= 13 TREES PROPOSED

STREET TREE
1 STREET TREE PER 50' OF FRONTAGE

INDUSTRIAL PARKWAY FRONTAGE = 422.24'/50' = 9 STREET TREES REQUIRED (6 EXISTING TO BE REMOVED AND REPLACED)(WAIVER REQUESTED TO PROVIDE 6 STREET TREES)

SCHOENECK ROAD FRONTAGE = 543.64'/50' = 11 STREET TREES REQUIRED (9 EXISTING TO REMAIN)(WAIVER REQUESTED TO PROVIDE 9 STREET TREES)

ALBURTIS ROAD FRONTAGE = 653.74'/50' = 13 STREET TREES REQUIRED (NONE PROVIDED AS STREET TREES DUE TO EXISTING UTILITY AND PATHWAY CONFLICTS. WAIVER REQUESTED FOR STREET TREES ALONG ALBURTIS ROAD.)

GENERAL LANDSCAPING TREES:
16 EXISTING TREES >6" CALIPER TO BE REMOVED AND REPLACED ON SITE. 23 TREES ARE PROVIDED ALONG SOUTHERN END OF PROPERTY AS REPLACEMENT TREES.

LANDSCAPE BUFFER:
LANDSCAPE BUFFER REQUIRED ALONG 7448 INDUSTRIAL PARK WAY PARCEL. BUFFER PLANTINGS ARE PROVIDED AS REQUIRED.

BASIN NATURALIZATION:
9 FLOWERING TREES ARE PROVIDED ALONG TOP OF BASIN LOCATED ALONG SCHOENECK ROAD. BASIN TO BE SEEDED ON THE POND BOTTOM WITH ERNST SEED MIX 183(ERNMX-183) AT 4.5 LB/1000 YD^(2)(20 LB/ACRE) AND WITH PENNDOT FORMULA 'C' AT 12 LB/1000 YD^(2)(60 LB/ACRE) ON THE SIDE SLOPES AND BERM. FERTILIZER AND MULCH IN ACCORDANCE WITH PENNDOT PUB408.

LAWN SEEDING
ALL LAWN AREAS WITH REQUIRED PLANTING STRIPS SHALL RECEIVE 8" OF TOPSOIL SHALL BE PLACED AND FINE GRADED TO DESIGN GUIDES AND SEEDED WITH PENNDOT FORMULA 'B' SEED MIX AT 21 LBS/S.Y. FERTILIZER AND MULCH IN ACCORDANCE WITH PENNDOT PUB408.

LIGHTING NOTES:
1. POST-APPROVAL ALTERATIONS TO LIGHTING PLANS OR INTENDED SUBSTITUTIONS FOR APPROVED LIGHTING EQUIPMENT SHALL BE SUBMITTED TO THE TOWNSHIP FOR REVIEW AND APPROVAL.
2. THE TOWNSHIP RESERVES THE RIGHT TO CONDUCT POST-INSTALLATION NIGHTTIME INSPECTIONS TO VERIFY COMPLIANCE WITH THE REQUIREMENTS OF CHAPTER 27 OF THE ZONING ORDINANCE AND AS OTHERWISE AGREED UPON BY THE TOWNSHIP AND, IF APPROPRIATE, TO REQUIRE REMEDIAL ACTION AT NO EXPENSE TO THE TOWNSHIP.
3. ALL POLES AND LUMINARIES TO BE BLACK POWDER COATED UNLESS OTHERWISE APPROVED BY THE ZONING OFFICER.
4. PROPOSED HOURS OF OPERATION: 5AM - 6PM. WALL PACK CLOSEST TO EACH RESPECTIVE MAN DOOR TO BE USED AS SECURITY LIGHTING.

Luminaire Schedule

Symbol	Qty	Label	Arrangement	LLF	Description	Arr. Watts	Arr. Lum. Lumens	Total Watts
	7	S160L-135	SINGLE	0.900	VP-1-160L-135-3K7-4F	135	15906	945
	7	W160L-95	SINGLE	0.900	VPWG-160L-95-3K7-4F	91	12866	637
	12	W80L-55	SINGLE	0.900	VPWG-80L-55-3K7-4F	50.6	6836	607.2

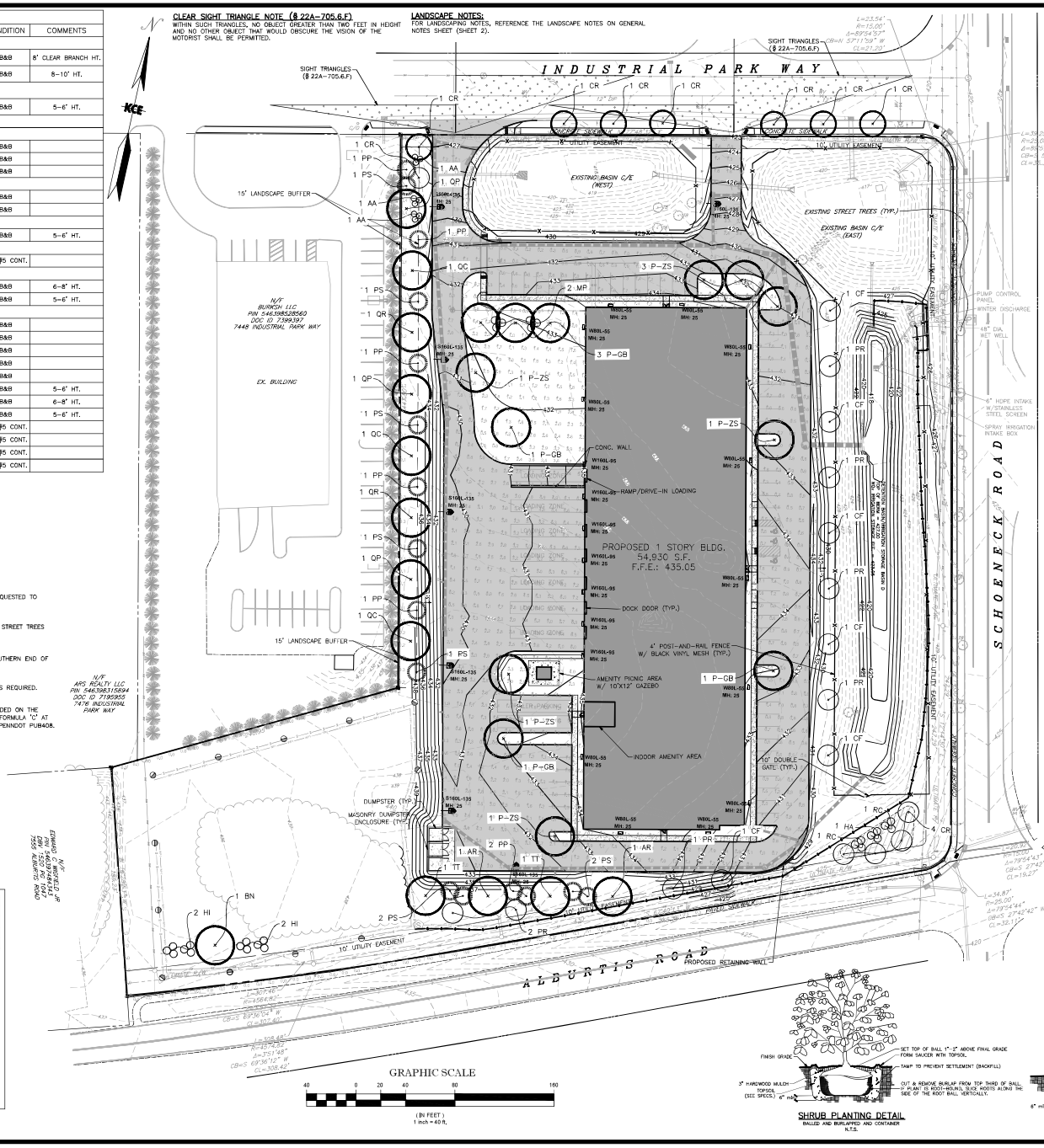
Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Property Line	Illuminance	Fc	0.07	0.5	0.0	N.A.	N.A.
Site	Illuminance	Fc	1.78	7.4	0.2	9.90	37.00
Loading Zone	Illuminance	Fc	5.00	7.4	2.5	2.00	2.96

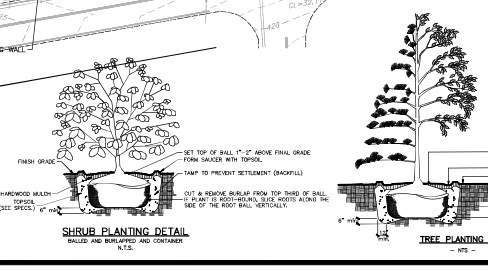
Notes:
1) Fixtures placed strategically.
2) Color temp is 3000K.
3) Calc points are spaced 10ft apart and at grade.
4) Mounting heights are at 25ft.
5) LLF is 0.900.
6) No other light contribution is considered.
7) Building is set as a 30ft obstruction.
8) Design was created from a CAD file. Light levels are deemed accurate.

CLEAR SIGHT TRIANGLE NOTE (§ 22A-705.6.F)
WITHIN SUCH TRIANGLES, NO OBJECT GREATER THAN TWO FEET IN HEIGHT AND NO OTHER OBJECT THAT WOULD OBSCURE THE VISION OF THE MOTORIST SHALL BE PERMITTED.

LANDSCAPE NOTES:
FOR LANDSCAPING NOTES, REFERENCE THE LANDSCAPE NOTES ON GENERAL NOTES SHEET (SHEET 2).



GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.



SHRUB PLANTING DETAIL
BALLED AND BURLAPPED AND CONTAINER
N.T.S.

TREE PLANTING DETAIL
- NTS -

LEGEND
SLANTED TEXT INDICATES EXISTING
UPRIGHT TEXT INDICATES PROPOSED

IRON PIN FOUND
CONCRETE MONUMENT FOUND
UTILITY POLE
GUY WIRE
ELECTRIC METER
STORM MANHOLE
STORM INLET
STORM FLARED END SECTION
SANITARY CLEANOUT
SANITARY MANHOLE
GAS VALVE
WATER VALVE
FIRE HYDRANT
SIGN
AREA LIGHT
PINE TREE
DECIDUOUS TREE
BUSH
SPRINKLER HEAD
BOUNDARY
LEGAL RIGHT-OF-WAY
ULTIMATE RIGHT-OF-WAY
EASEMENT LINE
ADJOINER PROPERTY LINE
EDGE OF PAVEMENT
CURB
TREELINE
100 CONTOUR
OVERHEAD WIRES
SANITARY SEWER
ELECTRIC LINE
WATER LINE
STORM SEWER

PROPOSED LEGEND
AREA LIGHT
SIGN
385 CONTOUR
STORM SEWER
FLARED END SECTION
STORM MANHOLE
SANITARY MANHOLE
SANITARY SEWER
WATER LINE
PAVEMENT
BUILDING
CONCRETE SIDEWALK
SIGHT TRIANGLE
FENCE

LANDSCAPE PLAN LEGEND
CANOPY TREE
FLOWERING TREE
EVERGREEN TREE
SHRUB
PLANTING BED

KEYSTONE CONSULTING ENGINEERS, INC.
Engineering firm of choice since 1972
5012 MEDICAL CENTER CIRCLE, SUITE 1, ALLENTOWN, PA 18106 610-395-0971
East Office: Bethlehem, West Office: Allentown, North Office: Kresgeville
www.KCEINC.com

PRELIMINARY/FINAL PLAN

LIGHTING AND LANDSCAPE PLAN

NP LAND HOLDINGS 1
7428 INDUSTRIAL PARK WAY

LOWER MACUNGIE TOWNSHIP
LEHIGH COUNTY, PENNSYLVANIA

REVISIONS	BY	DATE
	IMK	6/20/25
	IMK	10/14/25
	IMK	12/08/25

DESIGNED BY:	IMK
DRAWN BY:	IMK
CHECKED BY:	ARF
DATE:	MAY 14, 2025
SCALE:	1" = 40'
JOB NUMBER:	CN-24-089
SHEET:	7 OF 25

C:\Users\IKAUFF~1\AppData\Local\Temp\Acpublish_30740\CW24-089 Plot Layout.dwg--??--&L Date: December 08,2025--7:52am Keystone Consulting Engineers, Inc. West Office -- USER: ikauffman
Current