

GENERAL NOTES

CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH THE NOTES AND SPECIFICATIONS CONTAINED HEREIN... 1. THE FOLLOWING DOCUMENTS ARE INCORPORATED BY REFERENCE AS PART OF THIS SITE PLAN... 1. SURVEY CONTROL POINT ASSOCIATES, INC. 1600 MANOR DRIVE, SUITE 210 CHALFONT, PA 18914... 2. THE ENGINEER'S RESPONSIBILITIES SHALL BE LIMITED TO THE DESIGN OF THE STRUCTURE... 3. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED... 4. THE OWNER/CONTRACTOR MUST BE FAMILIAR WITH AND RESPONSIBLE FOR THE PROCUREMENT OF ANY AND ALL CERTIFICATIONS REQUIRED FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY... 5. ALL WORK MUST BE PERFORMED IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS AND CONDITIONS OF APPROVAL... 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS... 7. THESE PLANS ARE BASED ON INFORMATION PROVIDED BY THE OWNER AND OTHER PARTY TO THE TIME OF PLAN PREPARATION... 8. ALL DIMENSIONS SHOWN ON THE PLANS MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION... 9. CONTRACTOR MUST REFER TO THE ARCHITECTURAL/BUILDING PLANS 'OR RECORD' FOR EXACT LOCATIONS AND DIMENSIONS OF ENTIRETYPOINT POINTS... 10. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR MUST COORDINATE THE BUILDING LAYOUT BY CAREFUL REVIEW OF THE LATEST CIVIL PLANS AND THE LATEST ARCHITECTURAL PLANS INCLUDING, BUT NOT LIMITED TO, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION PLAN, WHERE APPLICABLE... 11. DEBRIS MUST NOT BE BURIED ON THE SUBJECT SITE AND ALL UNSUITABLE EXCAVATED MATERIAL AND DEBRIS (SOLID WASTE) MUST BE DISPOSED OF IN ACCORDANCE WITH THE REQUIREMENTS OF ANY AND ALL GOVERNMENTAL AUTHORITIES... 12. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING WHEN SHORING IS REQUIRED AND FOR INSTALLING ALL SHORING REQUIRED DURING EXCAVATION... 13. THE CONTRACTOR IS TO EXERCISE EXTREME CARE WHEN PERFORMING ANY WORK ACTIVITIES ADJACENT TO PAVEMENT, STRUCTURES, ETC. WHICH ARE TO REMAIN EITHER FOR AN INITIAL PHASE OF THE PROJECT OR AS PART OF THE FINAL CONDITION... 14. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE DONE TO ANY NEW OR EXISTING CONSTRUCTION OR PROPERTY DURING THE COURSE OF CONSTRUCTION... 15. ALL CONCRETE MUST BE AIR ENTRAINED AND HAVE THE MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS UNLESS OTHERWISE NOTED ON THE PLANS... 16. THE ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION METHODS, MEANS, TECHNIQUES OR PROCEDURES, GENERALLY OR FOR THE CONSTRUCTION MEANS, TECHNIQUES OR PROCEDURES FOR COMPLETION OF THE WORK DERIVED BOTH ON THESE PLANS, AND FOR ANY CONSTRUCTION REVISIONS WHICH RESULT FROM SAME... 17. THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR JOB SITE SAFETY... 18. ALL CONTRACTORS MUST CARRY THE SPECIFIED STATUTORY WORKERS' COMPENSATION INSURANCE, EMPLOYERS LIABILITY INSURANCE AND LIMITS OF COMMERCIAL GENERAL LIABILITY INSURANCE... 19. BOHLER ENGINEERING WILL REVIEW OR TAKE OTHER APPROPRIATE ACTION ON THE CONTRACTOR SUBMITTALS, SUCH AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND OTHER DATA... 20. NEITHER THE PROFESSIONAL ACTIVITIES OF BOHLER ENGINEERING NOR THE PRESENCE OF BOHLER ENGINEERING AND/OR ITS PAST, PRESENT AND FUTURE OWNERS, OFFICERS, DIRECTORS, PARTNERS, SHAREHOLDERS, MEMBERS, PRINCIPALS, COMMISSIONERS, AGENTS, SERVANTS, EMPLOYEES, AFFILIATES, SUBSIDIARIES, AND RELATED ENTITIES, AND ITS SUBCONTRACTORS AND SUBCONSULTANTS AT A CONSTRUCTIONPROJECT SITE, SHALL RELIEVE THE GENERAL CONTRACTOR OF ITS OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, OVERSEEING, SUPERINTENDING AND COORDINATING THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND COMPLIANCE WITH ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES WITH JURISDICTION OVER THE PROJECT AND/OR BOHLER ENGINEERING AND ITS PERSONNEL... 21. IF THE CONTRACTOR DEVIATES FROM THE PLANS AND SPECIFICATIONS, INCLUDING THE NOTES CONTAINED HEREIN, WITHOUT FIRST OBTAINING THE PRIOR WRITTEN AUTHORIZATION OF THE ENGINEER FOR SUCH DEVIATIONS... 22. CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE AND PROTECTION OF TRAFFIC PLAN FOR ALL WORK THAT AFFECTS PUBLIC TRAVEL EITHER IN THE R.O.W. OR ON SITE... 23. ALL SIGNING AND PAVEMENT STRIPING MUST conform TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES OR LOCALLY APPLICABLE SUPPLEMENT... 24. ENGINEER IS NOT RESPONSIBLE FOR ANY INJURY OR DAMAGES RESULTING FROM CONTRACTORS FAILURE TO BUILD OR CONSTRUCT IN STRICT ACCORDANCE WITH THE APPROVED PLANS... 25. CONTRACTOR AND OWNER MUST INSTALL ALL ELEMENTS AND COMPONENTS IN STRICT COMPLIANCE WITH AND ACCORDANCE WITH MANUFACTURERS STANDARDS AND RECOMMENDED INSTALLATION CRITERIA AND SPECIFICATIONS... 26. ALL DIMENSIONS MUST BE TO FACE OF CURB, EDGE OF PAVEMENT, OR EDGE OF BUILDING, UNLESS NOTED OTHERWISE... 27. ALL CONSTRUCTION AND MATERIALS MUST comply WITH AND conform TO APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, LAWS, ORDINANCES, RULES AND CODES... 28. CONTRACTOR AND OWNER MUST INSTALL ALL ELEMENTS AND COMPONENTS IN STRICT COMPLIANCE WITH AND ACCORDANCE WITH MANUFACTURERS STANDARDS AND RECOMMENDED INSTALLATION CRITERIA AND SPECIFICATIONS... 29. AS CONTAINED IN THESE DRAWINGS AND ASSOCIATED APPLICATION DOCUMENTS PREPARED BY THE SIGNATORY PROFESSIONAL ENGINEER... 30. ALL BLUFFER YARDS SHALL be MAINTAINED and kept CLEAN OF DEBRIS, RUBBISH, WEEDS, ETC... 31. ANY SUBDIVISION OF THE PROPERTY THAT WOULD REDUCE THE AREA OF THE PARCELS THAT MAKE UP THE J31 USE WILL require APPROVAL FROM THE ZONING HEARING BOARD... 32. ALL SURVEY MONUMENTS AND MARKERS SHALL be SET BY A PENNSYLVANIA LICENSED LAND SURVEYOR WITHIN 0.04 FEET OF THE REQUIRED LOCATION.

SITE SPECIFIC GENERAL NOTES

1. ALL BLUFFER YARDS SHALL be MAINTAINED and kept CLEAN OF DEBRIS, RUBBISH, WEEDS, ETC... 2. ANY SUBDIVISION OF THE PROPERTY THAT WOULD REDUCE THE AREA OF THE PARCELS THAT MAKE UP THE J31 USE WILL require APPROVAL FROM THE ZONING HEARING BOARD... 3. ALL SURVEY MONUMENTS AND MARKERS SHALL be SET BY A PENNSYLVANIA LICENSED LAND SURVEYOR WITHIN 0.04 FEET OF THE REQUIRED LOCATION.

ZONING DATA:

1) THIS PLAN REFERENCES ANY "A/TA" /NPS LAND TITLE SURVEY... PREPARED FOR: PROVCO PINEGOOD ACQUISITIONS, LLC... 2) EQUITABLE OWNER/APPLICANT: PROVCO PINEGOOD, CHALFONT, LLC... 3) TOTAL GROSS AREA: 15,775 AC... 4) TOTAL GROSS AREA: 15,775 AC (NET: 14,988 AC)... 5) SITE ZONED: C1 - J31 PCOM-PLANNED COMMUNITY CENTER MIXED USE (PERMITTED BY CONDITIONAL USE)... 6) NET BUILDABLE SITE AREA (NBSA)... 7) BULK REQUIREMENTS: MINIMUM BASE SITE AREA: 15.0 AC... MIN. IMPERVIOUS COVERAGE: 75%... MIN. LOT WIDTH: 150... MIN. LOT WIDTH (ACCESSING ARTERIAL): 250... MAX. BUILDING COVERAGE: 4.8% (29,488 SF) (SITE) 1.8% (10,177 SF) (LOT)... 8) PROPOSED BUILDING HEIGHT: J1- RETAIL STORE - MAX. BUILDING HEIGHT = 33'0" GASOLINE SALES... J19- SERVICE STATION - MAX. CANOPY HEIGHT = 21'2"

Table with 7 columns: UNIT, AREA (S.F.), FLOOR AREA (S.F.), EXISTING TENANT, USE, PARKING REQUIRED. Includes units A through J with details on parking and existing tenants.

Table with 3 columns: EXISTING WOOLANDS, ALLOWABLE DISTURBANCE, PROPOSED DISTURBANCE. Shows 2.28 ac (99.466 SF) existing woods, 65% (1.48 ac) allowable, and 38.7% (9.883 ac) proposed.

ADDITIONAL NOTES: * DENOTES CALCULATED FROM NBSA OF 14,700 AC... ** INCLUDES PROPOSED ADDITIONAL PARKING ISLANDS PROVIDED FOR SEPARATION BETWEEN PARKING LOT & DRIVEWAY (ENO) DENOTES EXISTING NON-COMFORMITY

- ADDITIONAL NOTES: PARKING SPACES AND PARKING AISLES - SLOPE SHALL NOT EXCEED 1:50 (1/4" PER FOOT OR NOMINALLY 2.0%) IN ANY DIRECTION... CURB RAMPS - SLOPE MUST NOT EXCEED 1:12 (8.3%)... LANDINGS - MUST BE PROVIDED AT EACH END OF RAMPS... PATH OF TRAVEL ALONG ACCESSIBLE ROUTE - MUST PROVIDE A 36-INCH OR GREATER UNOBSTRUCTED WIDTH OF TRAVEL... DOORWAYS - MUST HAVE A LEVEL LANDING AREA ON THE EXTERIOR SIDE OF THE DOOR... CURB RAMP - MUST BE ADHERED TO, A MAXIMUM SLOPE OF 1:12 (8.3%) FOR A MAXIMUM RISE OF 2.5 FEET...

GENERAL DEMOLITION NOTES

- 1. THIS PLAN REFERENCES DOCUMENTS AND INFORMATION BY: CONTROL POINT ASSOCIATES, INC. 1600 MANOR DRIVE, SUITE 210 CHALFONT, PA 18914... 2. CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970... 3. BOHLER ENGINEERING HAS NO CONTRACTUAL, LEGAL, OR OTHER RESPONSIBILITY FOR JOB SITE SAFETY OR JOB SITE SUPERVISION... 4. THE DEMOLITION PLAN IS INTENDED TO PROVIDE GENERAL INFORMATION... 5. CONTRACTOR MUST RAISE ANY QUESTIONS CONCERNING THE ACCURACY OR INTENT OF THESE PLANS... 6. PRIOR TO STARTING ANY DEMOLITION, CONTRACTOR IS RESPONSIBLE FOR: A. OBTAINING ALL REQUIRED PERMITS... B. ENSURE COPIES OF ALL PERMITS AND APPROVALS ARE ON SITE FOR REVIEW... C. THE REQUIRED SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO SITE DISTURBANCE... D. PROTECT AND MAINTAIN IN OPERATION, ALL ACTIVE SYSTEMS THAT ARE NOT BEING REMOVED... E. FAMILIARIZE THEMSELVES WITH THE APPLICABLE UTILITY SERVICE PROVIDER REQUIREMENT... F. COORDINATION WITH UTILITY COMPANIES REGARDING WORKING 'OFF-PEAK' HOURS... G. A COMPLETE INSPECTION FOR CONTAMINANTS BY A LICENSED ENVIRONMENTAL TESTING AGENCY... 9. THE CONTRACTOR SHALL PROVIDE ALL THE 'MEANS AND METHODS' NECESSARY TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF EXISTING STRUCTURES...

GENERAL GRADING & UTILITY NOTES

- 1. LOCATIONS OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE AND MUST BE INDEPENDENTLY CONFIRMED WITH LOCAL UTILITY COMPANIES... 2. CONTRACTOR MUST VERTICALLY AND HORIZONTALLY LOCATE ALL EXISTING UTILITIES AND SERVICES INCLUDING, BUT NOT LIMITED TO, GAS, WATER, ELECTRIC, SANITARY AND STORM SEWER... 3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL CONSTRUCTION CONTRACT DOCUMENTS INCLUDING, BUT NOT LIMITED TO, ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THE PROJECT... 4. THE CONTRACTOR MUST LOCATE AND CLEARLY AND UNAMBIGUOUSLY DEFINE VERTICALLY AND HORIZONTALLY ALL ACTIVE AND INACTIVE UTILITY AND/OR SERVICE SYSTEMS THAT ARE TO BE REMOVED... 5. THE CONTRACTOR MUST FAMILIARIZE ITSELF WITH THE APPLICABLE UTILITY SERVICE PROVIDER REQUIREMENTS... 6. THE CONTRACTOR MUST INSTALL ALL STORM SEWER AND SANITARY SEWER COMPONENTS WHICH FUNCTION BY GRAVITY PRIOR TO THE INSTALLATION OF ALL OTHER UTILITIES... 7. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF SITE PLAN DOCUMENTS AND ARCHITECTURAL DESIGN FOR EXACT BUILDING UTILITY CONNECTION LOCATIONS... 8. PAVEMENT SHALL BE SAW-CUT IN STRAIGHT LINES, AND EXCEPT FOR EDGES OF BUILT JOINTS, MUST EXTEND TO THE FULL DEPTH OF THE EXISTING PAVEMENT... 9. ALL NEW UTILITIES SERVICES, INCLUDING ELECTRIC, TELEPHONE, CABLE TV, ETC. ARE TO BE INSTALLED UNDERGROUND... 10. SITE GRADING MUST BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT... 11. ALL FILL, COMPACTED, AND BACKFILL MATERIALS REQUIRED FOR UTILITY INSTALLATION MUST BE AS PER THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT... 12. THE CONTRACTOR MUST COMPLY TO THE FULLEST EXTENT, WITH THE LATEST OSHA STANDARDS AND REGULATIONS... 13. PAVEMENT SHALL BE SAW-CUT IN STRAIGHT LINES... 14. IN THE TOP OF EXISTING MANHOLES, INLET STRUCTURES, UTILITY VALVES, AND SANITARY CLEANOUTS MUST BE ADJUSTED, AS NECESSARY, TO MATCH PROPOSED GRADES... 15. DURING THE INSTALLATION OF SANITARY SEWER, STORM SEWER, AND ALL UTILITIES, THE CONTRACTOR MUST MAINTAIN A CONTEMPORANEOUS AND THOROUGH RECORD... 16. THE CONTRACTOR MUST PROMPTLY PROVIDE TO THE OWNER A COMPLETE LIST OF ALL UTILITIES... 17. THE CONTRACTOR IS FULLY RESPONSIBLE FOR VERIFICATION OF EXISTING TOPOGRAPHIC INFORMATION AND UTILITY INVERT ELEVATIONS... 18. PROPOSED TOP OF CURB ELEVATIONS ARE GENERAL IN NATURE... 19. REFER TO SITE PLAN FOR ADDITIONAL NOTES... 20. IN THE EVENT OF DISCREPANCIES AND/OR CONFLICTS BETWEEN PLANS OR RELATIVE TO OTHER PLANS... 21. CONTRACTOR IS REQUIRED TO SECURE ALL NECESSARY AND/OR REQUIRED PERMITS AND APPROVALS FOR ALL OFF SITE MATERIAL SOURCES AND DISPOSAL FACILITIES... 22. TOP AND BOTTOM WALL ELEVATIONS (T/M & B/M) REPRESENT THE PROPOSED FINISHED GRADE AT THE FACE OF WALL AND DO NOT REPRESENT THE ELEVATION OF THE PROPOSED WALL (INCLUDING THE CAP INLET OR FOOTING)... 23. STORM DRAINAGE PIPE: UNLESS INDICATED OTHERWISE, ALL STORM SEWER PIPE MUST BE REINFORCED CONCRETE PIPE (RCP) CLASS III WITH JOINTS WITH HIGH DENSITY POLYETHYLENE PIPE (HDPE) IS CALLED FOR ON THE PLANS... 24. SANITARY SEWER MAIN MUST BE POLYVNYL CHLORIDE (PVC) SDR 35 UNLESS WHERE INDICATED OTHERWISE... 25. STORM DRAINAGE PIPE: UNLESS INDICATED OTHERWISE, ALL STORM SEWER PIPE LENGTHS INDICATED ARE NOMINAL... 26. WATER MAIN PIPING MUST BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE LOCAL WATER AUTHORITY... 27. WHERE APPROPRIATE SEPARATION FROM A WATER MAIN IS NOT POSSIBLE, THE SEWER MUST BE ENCASED IN CONCRETE... 28. WATER MAIN PIPING MUST BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE LOCAL WATER AUTHORITY... 29. CONTRACTOR MUST ENSURE THAT ALL UTILITY TRENCHES LOCATED IN EXISTING PAVED ROADWAYS INCLUDING SEWER, WATER AND STORM SYSTEMS, MUST BE REPAIRED IN ACCORDANCE WITH REFERENCED MUNICIPAL, COUNTY AND/OR DOT DETAILS AS APPLICABLE... 30. WHERE BASEMENTS ARE TO BE PROVIDED FOR PROPOSED DWELLING UNITS, THE DEVELOPER SHALL, BY BORING OR BY TEST PIT, DETERMINE THE DEPTH TO GROUNDWATER... 31. FOR SINGLE AND MULTIFAMILY RESIDENTIAL PROJECTS, WHERE THE PROPOSED DWELLING AND ADJACENT SPOT ELEVATIONS ARE SCHEMATIC FOR GENERIC BUILDING FOOTPRINT... 32. LOCATION OF PROPOSED UTILITY POLE RELOCATION IS AT THE SOLE DISCRETION OF UTILITY COMPANY... 33. CONTRACTOR IS NEITHER AWARE NOR RESPONSIBLE FOR ANY SUBSURFACE CONDITIONS AND FURTHER, SHALL HAVE NO LIABILITY FOR ANY HAZARDOUS MATERIALS, HAZARDOUS SUBSTANCES, OR POLLUTANTS ON, ABOUT OR UNDER THE PROPERTY.

BOHLER ENGINEERING logo and contact information for various regional offices: ALBANY, NY; ALBANY, OR; ALBANY, WA; ALBANY, TN; ALBANY, VA; ALBANY, NC; ALBANY, SC; ALBANY, GA; ALBANY, FL; ALBANY, LA; ALBANY, TX; ALBANY, OK; ALBANY, MO; ALBANY, KY; ALBANY, IL; ALBANY, IN; ALBANY, OH; ALBANY, PA; ALBANY, WV; ALBANY, VA; ALBANY, NC; ALBANY, SC; ALBANY, GA; ALBANY, FL; ALBANY, LA; ALBANY, TX; ALBANY, OK; ALBANY, MO; ALBANY, KY; ALBANY, IL; ALBANY, IN; ALBANY, OH; ALBANY, PA; ALBANY, WV.

REVISIONS

Table with 4 columns: REV, DATE, COMMENT, BY. Shows one revision on 09/21/18 for PER TOWNSHIP REVIEW COMMENTS.

CALL BEFORE YOU DIG!

PAI PAISERVICELINK logo and contact information: 1-800-242-1776, POCS SERIAL NUMBER 20172771117

PROJECT:

PROJECT NO.: PC171170
DRAWN BY: JCHT
CHECKED BY: JKR
DATE: 5/18/2018
SCALE: NONE
CAD I.D.: PC171170LANDEV-1

FINAL LAND DEVELOPMENT PLANS

FOR

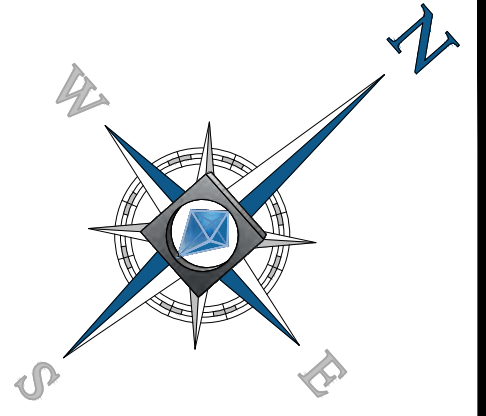
PROVCO PINEGOOD, CHALFONT, LLC
PROPOSED WAWA
BUTLER AVENUE (SR 4202) & COUNTY LINE ROAD
NEW BRITAIN TOWNSHIP
BUCKS COUNTY
PENNSYLVANIA

BOHLER ENGINEERING logo and contact information: 1600 MANOR DRIVE, SUITE 200 CHALFONT, PENNSYLVANIA 18914. Phone: (215) 996-9100. Fax: (215) 996-9102. www.BohlerEngineering.com

J.R. KORCZAK logo and contact information: PROFESSIONAL ENGINEER PENNSYLVANIA LICENSE NO. PE074279

SHEET TITLE:

NOTES (RECORD PLAN 2 OF 10) SHEET NUMBER: 2 OF 37 REVISION 1 - 2018.09.21



REVISIONS

REV	DATE	COMMENT	BY
1	09/21/18	PER TOWNSHIP REVIEW COMMENTS	JHT

CALL BEFORE YOU DIG!
 PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE - STOP-CALL
 PA1
 POCS SERIAL NUMBER: 20172771117
 1-800-242-1776

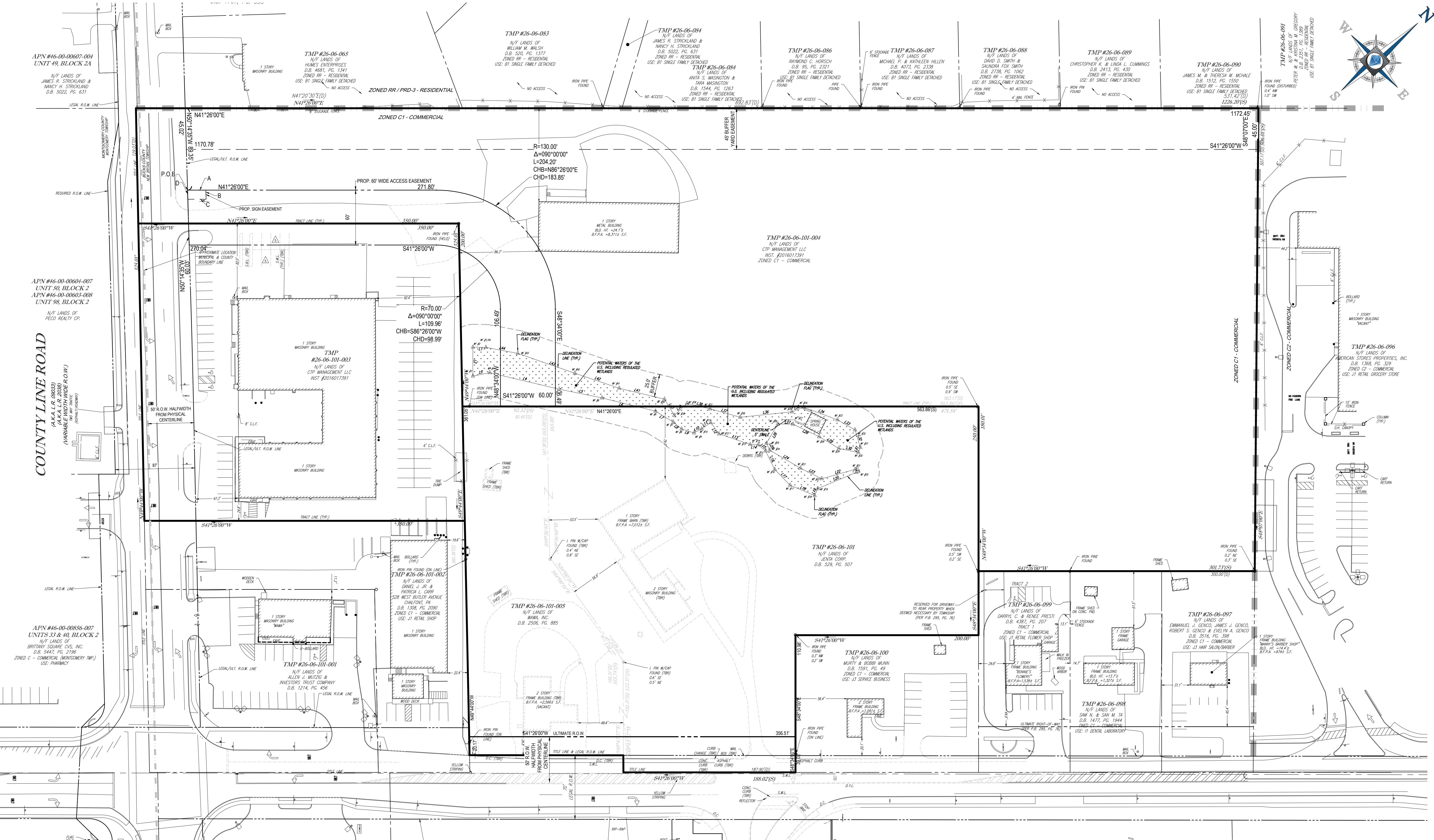
PROJECT No.: PC171170
 CHECKED BY: JRK
 DATE: 5/18/2018
 SCALE: 1" = 50'
 CAD I.D.: PC171170LANDDEV-1 RECON

FINAL LAND DEVELOPMENT PLANS
 FOR
PROVCO PINEGOOD, CHALFONT, LLC
 PROPOSED WAWA
 BUTLER AVENUE (SR 4202) & COUNTY LINE ROAD
 NEW BRITAIN TOWNSHIP
 BUCKS COUNTY
 PENNSYLVANIA

BOHLER ENGINEERING
 1600 MANOR DRIVE, SUITE 200
 CHALFONT, PENNSYLVANIA 18914
 Phone: (215) 996-9100
 Fax: (215) 996-9102
 www.BohlerEngineering.com

J.R. KORCZAK
 PROFESSIONAL ENGINEER
 PENNSYLVANIA LICENSE NO. PE074279

SHEET TITLE:
LOT CONSOLIDATION PLAN
 (RECORD PLAN 3 OF 10)
 SHEET NUMBER:
3
 OF 37
 REVISION 1 - 2018.09.21



WETLANDS LINE TABLE

LINE	DISTANCE	BEARING
L1	14.28	S42°11'15"W
L2	31.52	S48°35'34"E
L3	18.78	N30°09'19"E
L4	77.90	N64°04'25"E
L5	47.85	N52°57'21"E
L6	60.16	N55°19'45"E
L7	22.94	N73°11'09"E
L8	11.68	N80°15'45"E
L9	14.22	N69°10'54"E
L10	9.45	N13°35'59"E
L11	12.10	N68°47'28"E
L12	15.28	S84°02'25"E
L13	35.95	N60°14'38"E
L14	8.83	N44°08'29"E
L15	10.42	N80°52'40"E
L16	22.46	S14°45'30"E

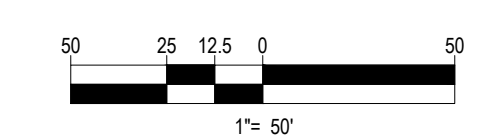
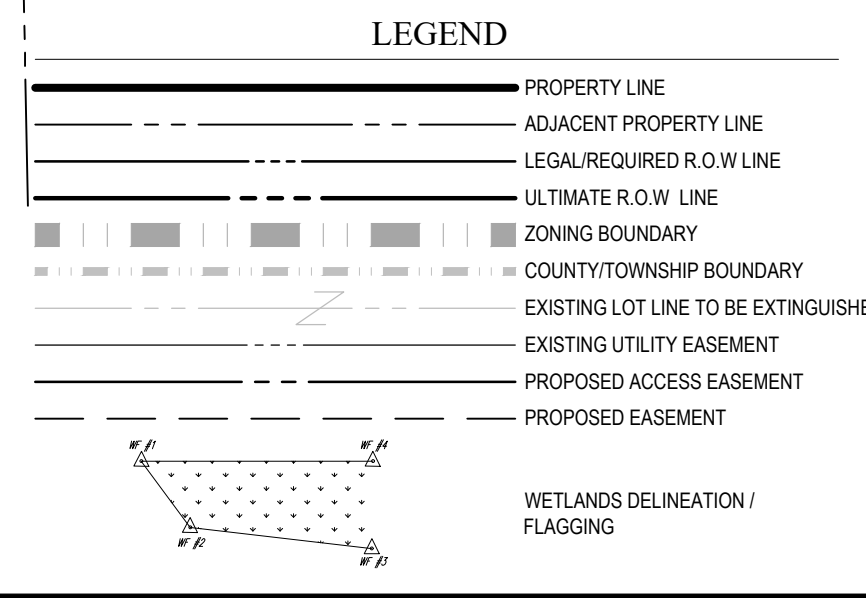
L17	24.07	N87°22'41"E
L18	28.18	N42°23'7"E
L19	8.38	N24°03'56"W
L20	45.69	N18°39'33"E
L21	3.57	N69°21'23"W
L22	39.02	S23°50'07"W
L23	25.91	S87°48'35"W
L24	38.96	S11°46'22"W
L25	8.32	N72°44'07"W
L26	24.46	N18°13'10"W
L27	16.52	N42°14'06"E
L28	31.79	N68°59'20"E
L29	24.97	N72°34'10"E
L30	21.83	N52°54'28"E
L31	6.01	N27°38'51"W
L32	19.95	N65°28'18"W
L33	22.98	S11°15'45"W
L34	38.49	S61°57'01"W

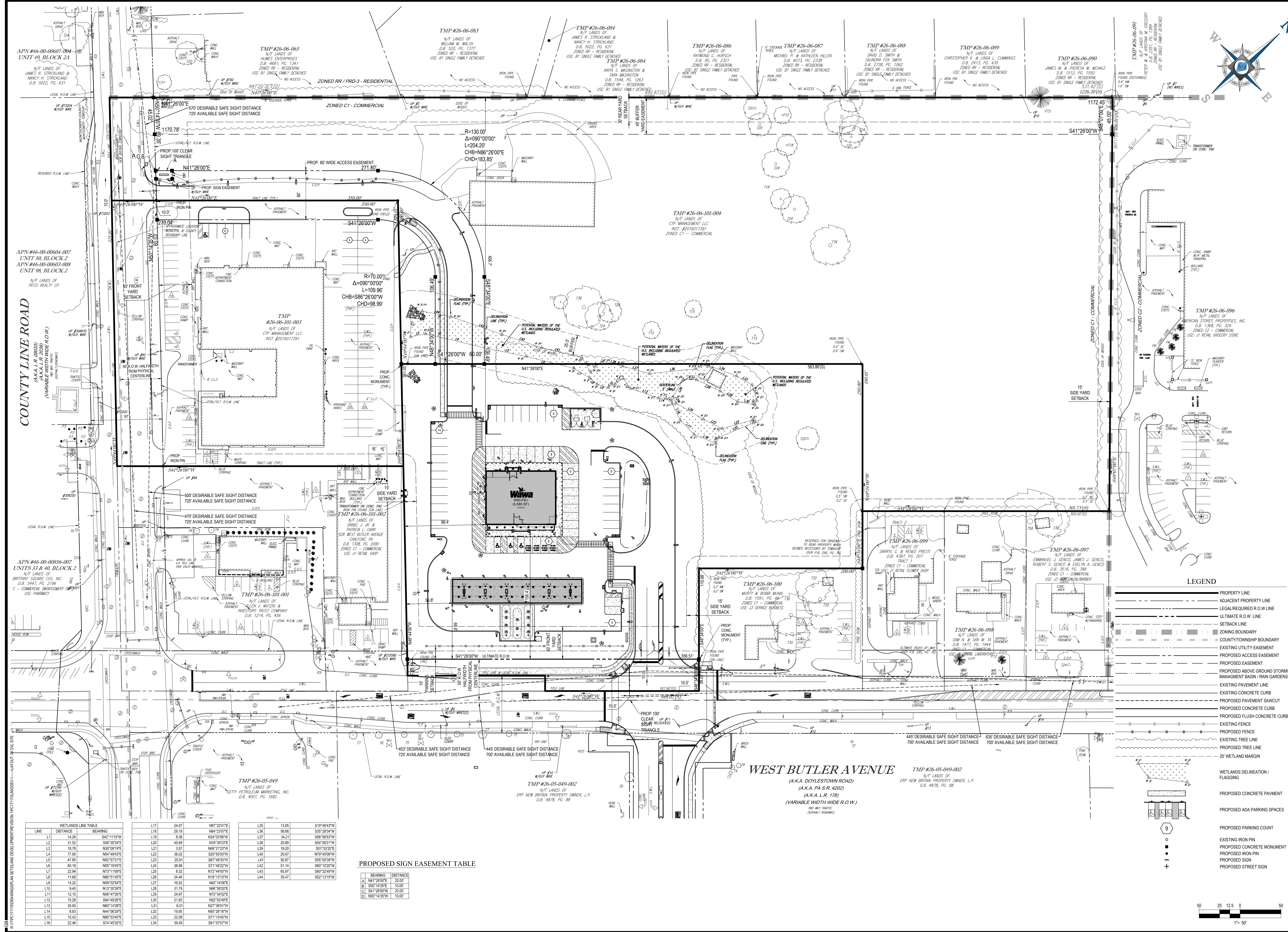
L35	13.85	S19°46'43"W
L36	58.68	S32°28'34"W
L37	34.21	S50°56'53"W
L38	25.89	S54°56'21"W
L39	19.20	S01°53'20"E
L40	23.67	N79°40'09"W
L41	50.87	S55°03'09"W
L42	51.14	S60°10'20"W
L43	65.97	S60°32'49"W
L44	35.47	S62°13'15"W

PROPOSED SIGN EASEMENT TABLE

BEARING	DISTANCE
A	N41°28'00"E 20.00'
B	S50°14'30"E 10.00'
C	S41°28'00"W 20.00'
D	N50°14'30"W 10.00'

WEST BUTLER AVENUE TMP #26-05-049-002
 (A.K.A. DOYLESTOWN ROAD)
 (A.K.A. PA S.R. 4202)
 (A.K.A. L.R. 178)
 (VARIABLE WIDTH WIDE R.O.W.)
 NO NEW TRAVEL (ADAPTED ROADWAY)





BOHLER ENGINEERING

SITE CIVIL AND CONSULTING ENGINEERING ARCHITECTURE
 LAND SURVEYING DESIGN PERMITTING SERVICES TRANSPORTATION SERVICES
 SUSTAINABLE DESIGN

CHARLOTTE, NC
 BALTIMORE, MD
 SOUTHERN NEW JERSEY
 PHILADELPHIA, PA
 NEW ENGLAND
 NEW YORK, NY
 NEW YORK, NY
 NEW YORK, NY
 WASHINGTON, DC

ATLANTA, GA
 SOUTH FLORIDA
 CENTRAL VIRGINIA
 LEHIGH VALLEY, PA
 HALEIGH, VA
 WASHINGTON, DC

THE INFORMATION CONTAINED ON THIS PLAN IS BASED ON THE DATA AND RECORDS PROVIDED BY THE CLIENT AND IS NOT TO BE USED FOR ANY OTHER PROJECT OR PURPOSE.

REVISIONS

REV	DATE	COMMENT	BY
1	09/21/18	PER TOWNSHIP REVIEW COMMENTS	JHT

CALL BEFORE YOU DIG!

PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS NOTICE FOR STAGE - STOP-CALL

PA1
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POCS SERIAL NUMBER
 20172771117

PROJECT No.: PC171170
 DRAWN BY: JHT
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 DATE: 5/18/2018
 SCALE: 1" = 50'
 CAD I.D.: PC171170LANDDEV-1

FINAL LAND DEVELOPMENT PLANS

FOR

PROVCO PINEGOOD, CHALFONT, LLC

PROPOSED WAWA

BUTLER AVENUE (SR 4202) & COUNTY LINE ROAD
 NEW BRITAIN TOWNSHIP
 BUCKS COUNTY
 PENNSYLVANIA

BOHLER ENGINEERING

1600 MANOR DRIVE, SUITE 200
 CHALFONT, PENNSYLVANIA 18914
 Phone: (215) 996-9100
 Fax: (215) 996-9102
 www.BohlerEngineering.com

J.R. KORCZAK

PROFESSIONAL ENGINEER
 PENNSYLVANIA LICENSE NO. PE0734279

SHEET TITLE:
OVERALL SITE PLAN
 (RECORD PLAN 4 OF 10)

SHEET NUMBER:
4
 OF 37

REVISION 1 - 2018.09.21

APN #46-00-00607-004
 UNIT #9, BLOCK 2A

N/F LANDS OF JAMES H. STROCKLAND & NANCY H. STROCKLAND
 D.B. 5022, PG. 631

APN #46-00-00604-007
 UNIT 50, BLOCK 2
 APN #46-00-00603-008
 UNIT 98, BLOCK 2

N/F LANDS OF PECO REALTY CP.

APN #46-00-00856-007
 UNITS 33 & 40, BLOCK 2

N/F LANDS OF BRITANNY SQUARE CVS, INC.
 D.B. 5447, PG. 2196

C - COMMERCIAL (MOTORVEHICLE USE); PHARMACY

APN #46-00-00856-007
 UNITS 33 & 40, BLOCK 2

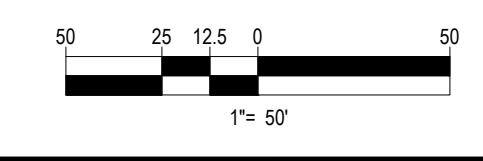
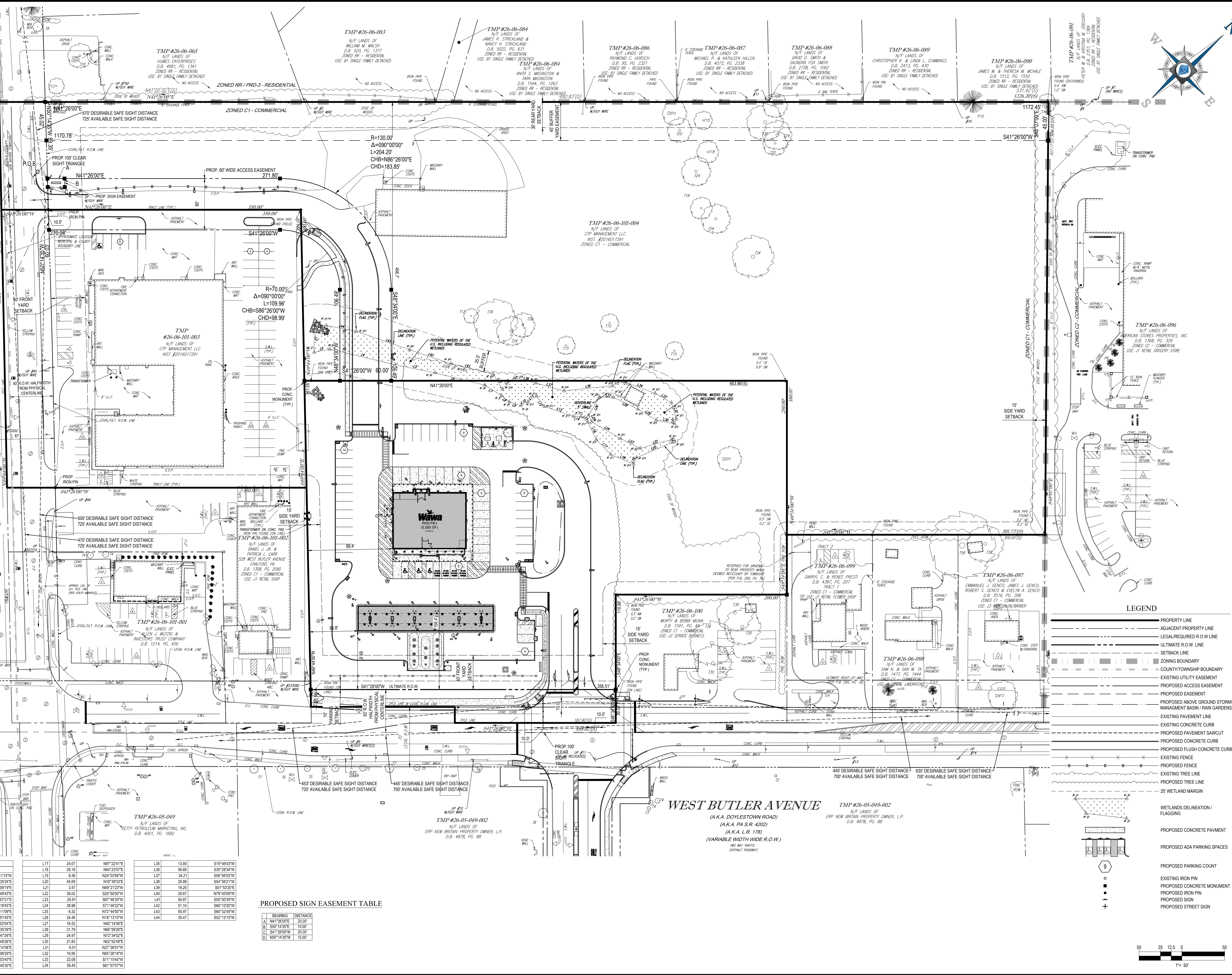
N/F LANDS OF BRITANNY SQUARE CVS, INC.
 D.B. 5447, PG. 2196

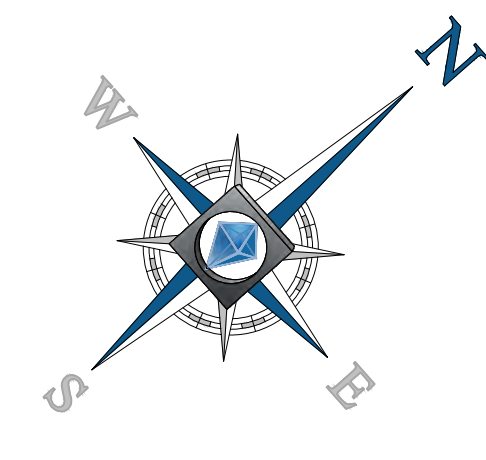
C - COMMERCIAL (MOTORVEHICLE USE); PHARMACY

APN #46-00-00856-007
 UNITS 33 & 40, BLOCK 2

N/F LANDS OF BRITANNY SQUARE CVS, INC.
 D.B. 5447, PG. 2196

C - COMMERCIAL (MOTORVEHICLE USE); PHARMACY





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REVISIONS

REV	DATE	COMMENT	BY
1	09/21/18	PER TOWNSHIP REVIEW COMMENTS	JHT

CALL BEFORE YOU DIG!

PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE - STOP-CALL

PA1
 1-800-242-1776

POCS SERIAL NUMBER
 20172771117

PROJECT No.: PC171170
 DRAWN BY: JHT
 CHECKED BY: JRK
 DATE: 5/18/2018
 SCALE: 1" = 30'
 CAD I.D.: PC171170LANDDEV-1

FINAL LAND DEVELOPMENT PLANS

FOR

PROVCO PINEGOOD, CHALFONT, LLC

PROPOSED WAWA

BUTLER AVENUE (SR 4202) & COUNTY LINE ROAD
 NEW BRITAIN TOWNSHIP
 BUCKS COUNTY
 PENNSYLVANIA

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 CHALFONT, PENNSYLVANIA 18914
 Phone: (215) 996-9100
 Fax: (215) 996-9102
www.BohlerEngineering.com

J.R. KORCZAK

PROFESSIONAL ENGINEER
 PENNSYLVANIA LICENSE NO. PE074279

SHEET TITLE:

SITE PLAN

(RECORD PLAN 6 OF 10)

SHEET NUMBER:

5
 OF 37

REVISION 1 - 2018.09.21

LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- LEGALLY REQUIRED R.O.W. LINE
- ULTIMATE R.O.W. LINE
- SETBACK LINE
- ZONING BOUNDARY
- COUNTY/TOWNSHIP BOUNDARY
- EXISTING UTILITY EASEMENT
- PROPOSED ACCESS EASEMENT
- PROPOSED EASEMENT
- PROPOSED ABOVE GROUND STORMWATER MANAGEMENT BASIN / RAIN GARDENS
- EXISTING PAVEMENT LINE
- EXISTING CONCRETE CURB
- PROPOSED PAVEMENT SAWCUT
- PROPOSED CONCRETE CURB
- PROPOSED FLUSH CONCRETE CURB
- EXISTING FENCE
- PROPOSED FENCE
- EXISTING TREE LINE
- PROPOSED TREE LINE
- 25' WETLAND MARGIN
- WETLANDS DELINEATION / FLAGGING
- PROPOSED CONCRETE PAVEMENT
- PROPOSED ADA PARKING SPACES
- PROPOSED PARKING COUNT
- EXISTING IRON PIN
- PROPOSED CONCRETE MONUMENT
- PROPOSED IRON PIN
- PROPOSED SIGN
- PROPOSED STREET SIGN

PROPOSED TRAFFIC SIGNAGE SYMBOL LEGEND

- (A) PROPOSED "STOP" SIGN (R1-1)
- (B) PROPOSED "RESERVED PARKING" SIGN (R7-8) & "RESERVED PARKING PENALTIES" SIGN (R7-8P)
- (C) PROPOSED "RESERVED PARKING" SIGN (R7-8) "RESERVED PARKING PENALTIES" SIGN (R7-8P) & "VAN ACCESSIBLE" SIGN (R7-8P)
- (D) PROPOSED "EMPLOYEE PARKING ONLY" SIGN
- (E) PROPOSED "AIR PUMP PARKING ONLY" SIGN
- (F) PROPOSED NO PARKING SIGN (R8-3)

PROPOSED SIGNAGE

GROUND SIGNS

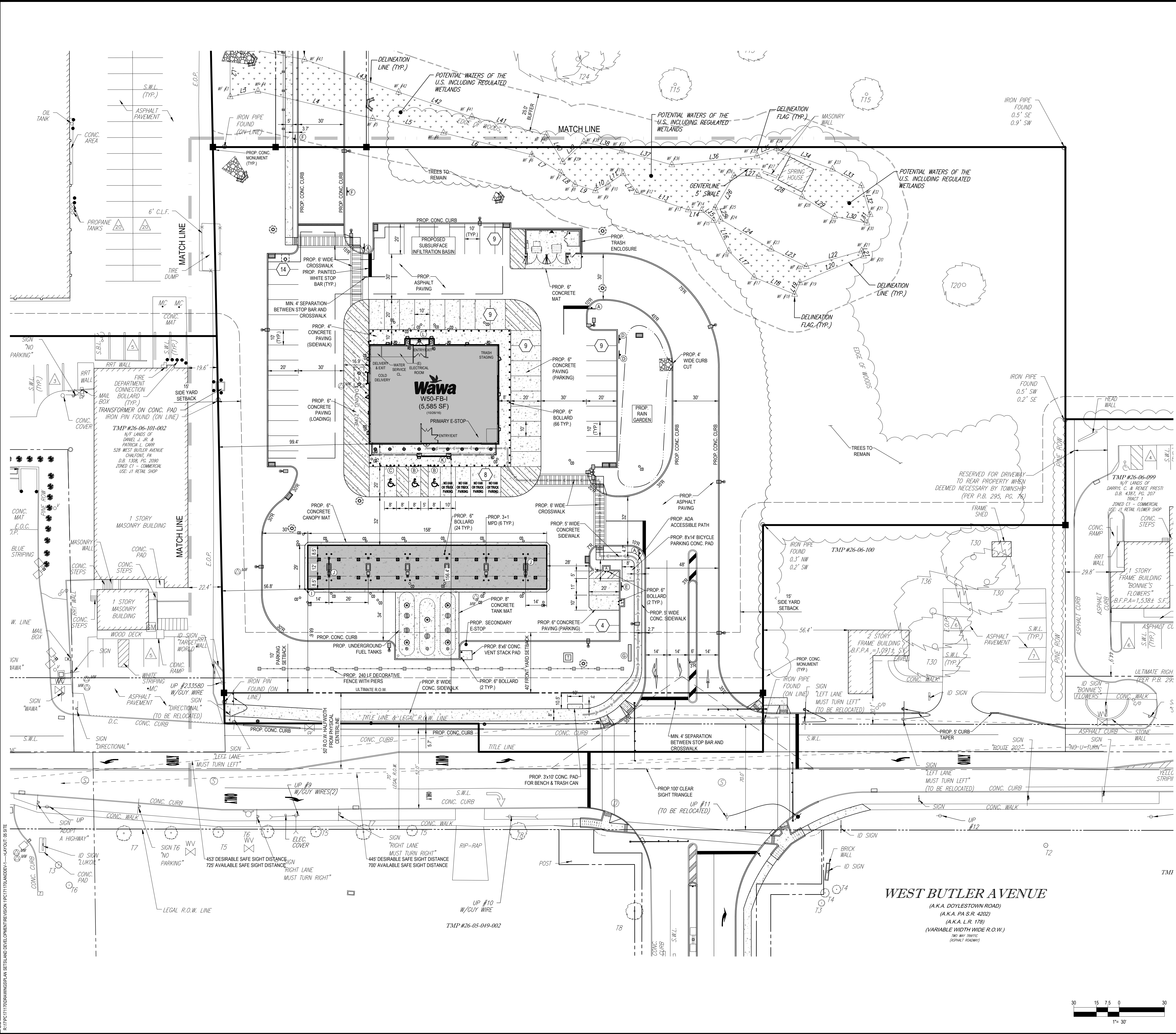
KEY	QTY.	DESCRIPTION	PROPOSED AREA (S.F.)	ALLOWABLE AREA (S.F.)
(G)	1	SHARED FREESTANDING PYLON SIGN (DOUBLE-FACED) (20' HIGH)	23.00	75.00 PER FACE
	1	"WAWA" I.D.	23.87	
	1	PRICE DISPLAY	18.33	
	1	3RD PARTY SIGN PANEL	65.20 PER FACE	75.00 PER FACE
(H)	1	FREESTANDING MONUMENT SIGN (DOUBLE-FACED) (7' HIGH)	25.37	75.00 PER FACE
	1	"WAWA" I.D.	24.50	
	1	PRICE DISPLAY	49.87 PER FACE	75.00 PER FACE

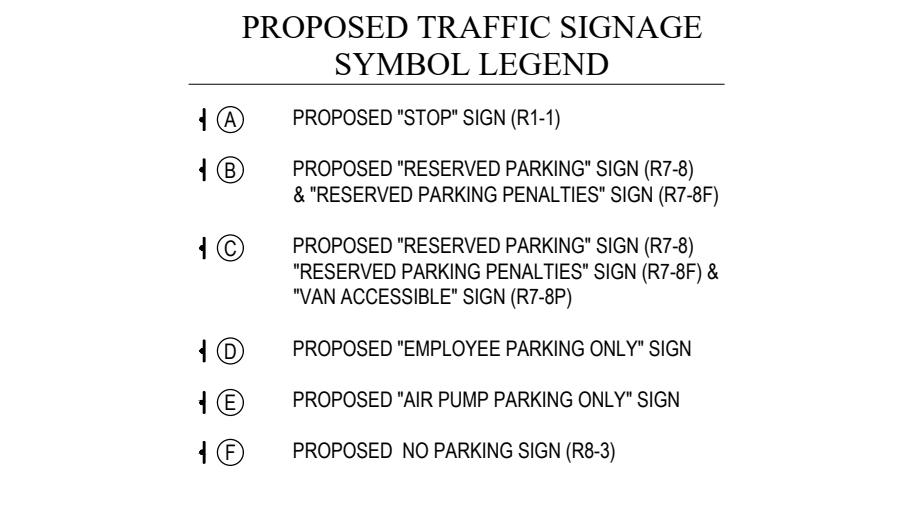
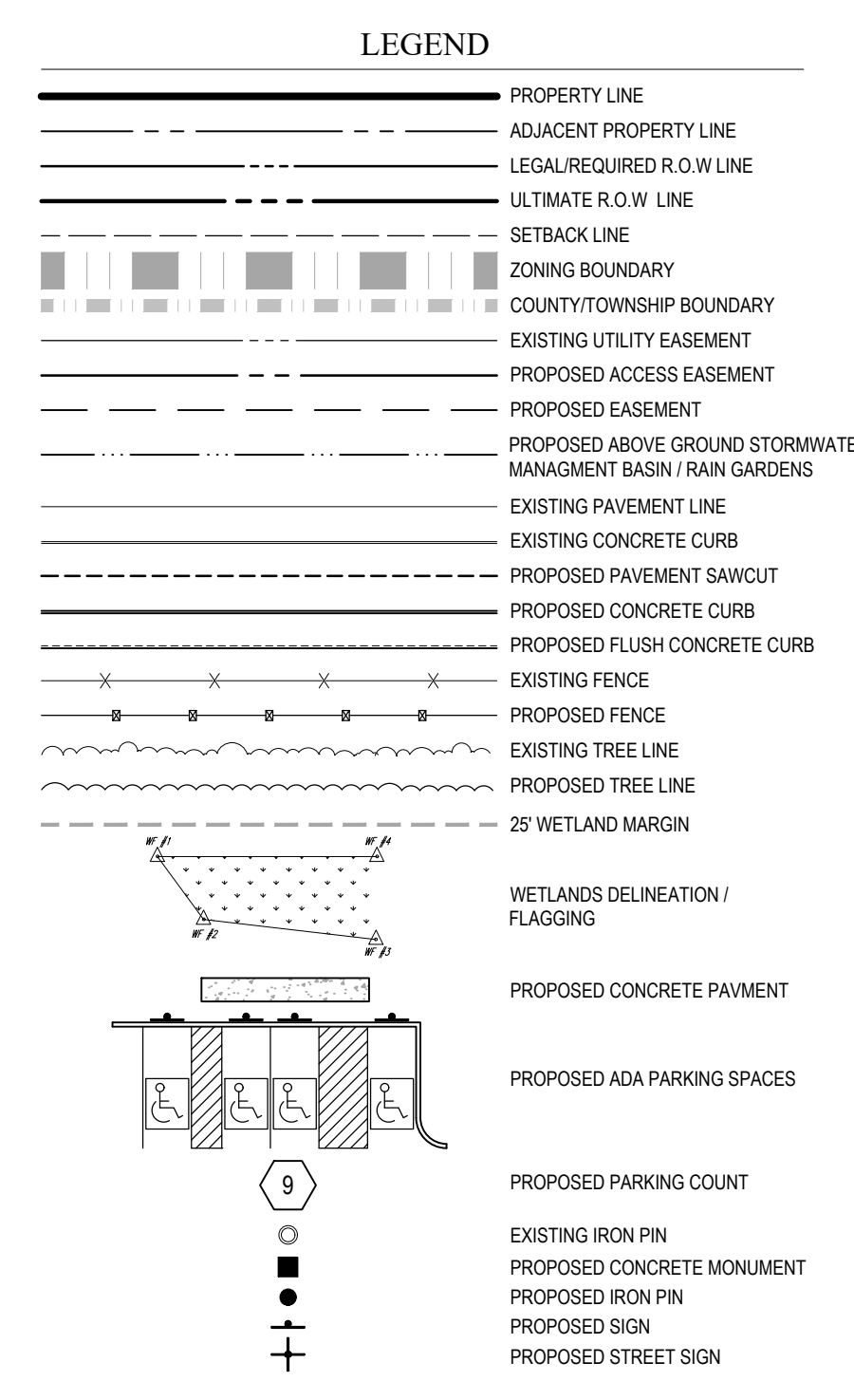
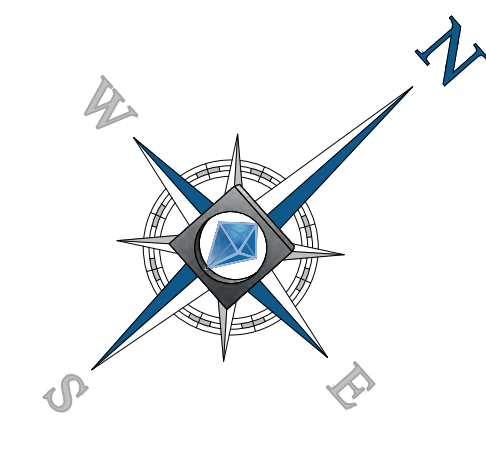
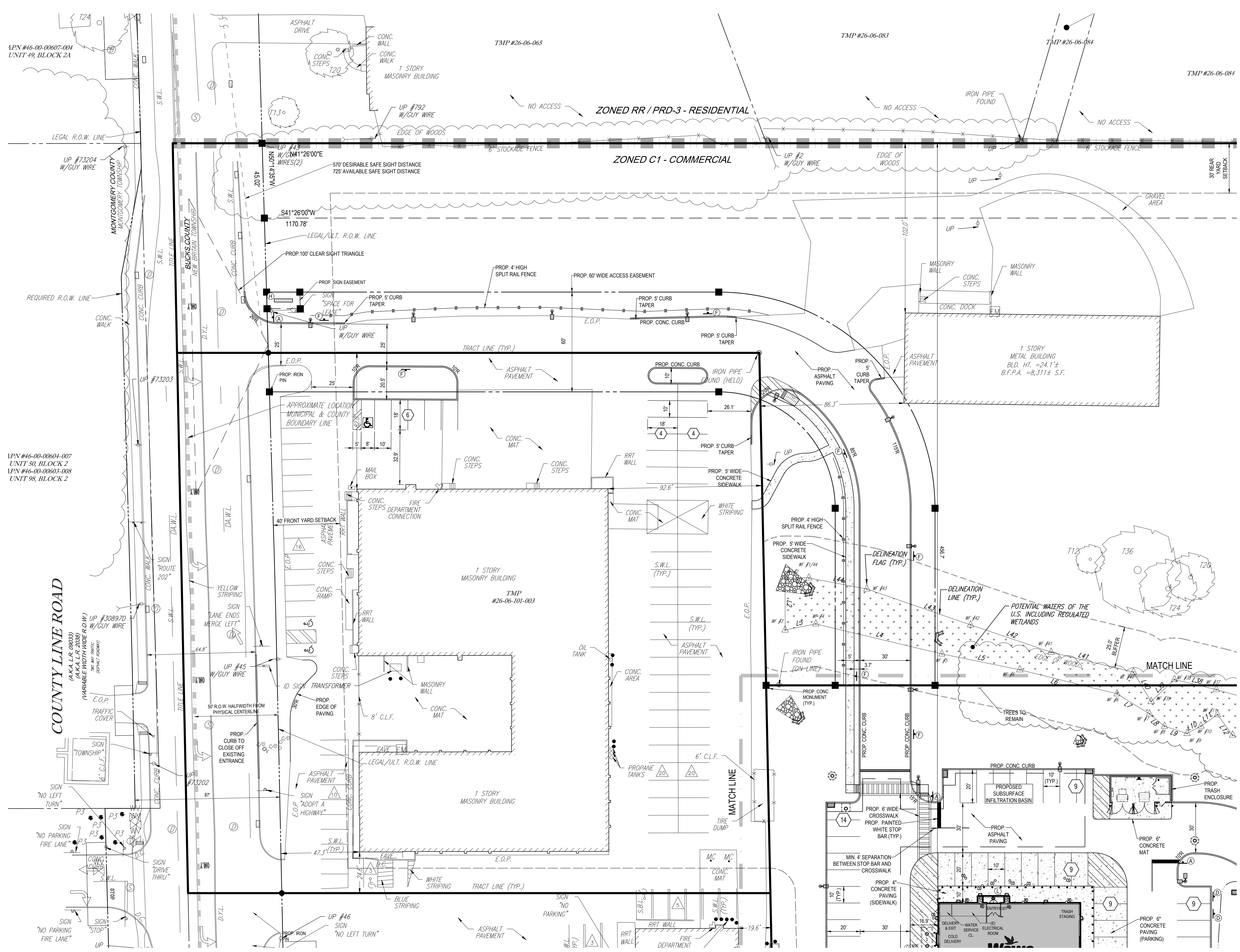
ON-PREMISES SIGNS (EXCEPT FOR GROUND SIGNS)

KEY	QTY.	DESCRIPTION	PROPOSED AREA (S.F.)	ALLOWABLE AREA (S.F.)
(I)	1	CANOPY SIGNAGE "WAWA" WITH LOGO I.D.	9.03	>36.90
(J)	2	"WAWA" GAS PUMP SPANNER	7.84	
	2	"WAWA" GAS PUMP SPANNER	16.87	
(K)	1	BUILDING MOUNTED SIGNAGE 32-INCH "WAWA" WITH LOGO	36.90	>36.90
(L)	1	44-INCH "WAWA" WITH LOGO	67.70	>67.70
	1		104.60	

MAXIMUM PERMITTED FREESTANDING SIGN HEIGHT UNDER J31 USE = 15 FEET (VARIANCE NEEDED)

TOTAL GROUND SIGNAGE =	115.07
TOTAL CANOPY SIGNAGE =	16.87
TOTAL BUILDING MOUNTED SIGNAGE =	104.60
TOTAL SIGNAGE =	236.54





PROPOSED SIGNAGE

GROUND SIGNS

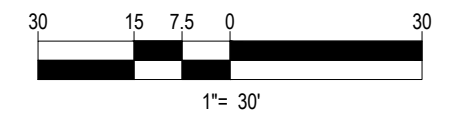
KEY	QTY.	DESCRIPTION	PROPOSED AREA (S.F.)	ALLOWABLE AREA (S.F.)
ⓐ	1	SHARED FREESTANDING PYLON SIGN (DOUBLE-FACED) (20'-0" HIGH)	23.00	
	1	"WAWA" I.D. PRICE DISPLAY	23.87	
	1	3RD PARTY SIGN PANEL	18.33	
			65.20 PER FACE	75.00 PER FACE
ⓑ	1	FREESTANDING MONUMENT SIGN (DOUBLE-FACED) (7'-0" HIGH)	25.37	
	1	"WAWA" I.D. PRICE DISPLAY	24.50	
			49.87 PER FACE	75.00 PER FACE

ON-PREMISES SIGNS (EXCEPT FOR GROUND SIGNS)

KEY	QTY.	DESCRIPTION	PROPOSED AREA (S.F.)	ALLOWABLE AREA (S.F.)
ⓐ	1	CANOPY SIGNAGE "WAWA" WITH LOGO I.D.	9.03	
ⓑ	2	"WAWA" GAS PUMP SPANNER	7.84	
			16.87	
ⓐ	1	BUILDING MOUNTED SIGNAGE 32-INCH "WAWA" WITH LOGO	36.90	>36.90
ⓑ	1	44-INCH "WAWA" WITH LOGO	67.70	>67.70
			104.60	

* MAXIMUM PERMITTED FREESTANDING SIGN HEIGHT UNDER J31 USE = 15 FEET (VARIANCE NEEDED)

TOTAL GROUND SIGNAGE =	115.07
TOTAL CANOPY SIGNAGE =	16.87
TOTAL BUILDING MOUNTED SIGNAGE =	104.60
TOTAL SIGNAGE =	236.54



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REV	DATE	COMMENT	BY
1	09/21/18	PER TOWNSHIP REVIEW COMMENTS	JHT

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PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS NOTICE FOR DESIGN STAGE - STOP-CALL

POCS SERIAL NUMBER: 20172771117

PA1 1-800-242-1776

PROJECT No.: PC171170
 DRAWN BY: JHT
 CHECKED BY: JRK
 DATE: 5/18/2018
 SCALE: 1" = 30'
 CAD I.D.: PC171170LANDDEV-1.REC001

FINAL LAND DEVELOPMENT PLANS

FOR

PROVCO PINEGOOD, CHALFONT, LLC

PROPOSED WAWA

BUTLER AVENUE (SR 4202) & COUNTY LINE ROAD
NEW BRITAIN TOWNSHIP
BUCKS COUNTY
PENNSYLVANIA

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J.R. KORCZAK

PROFESSIONAL ENGINEER
 PENNSYLVANIA LICENSE NO. PE074279

SHEET TITLE:

SITE PLAN

(RECORD PLAN 5 OF 10)

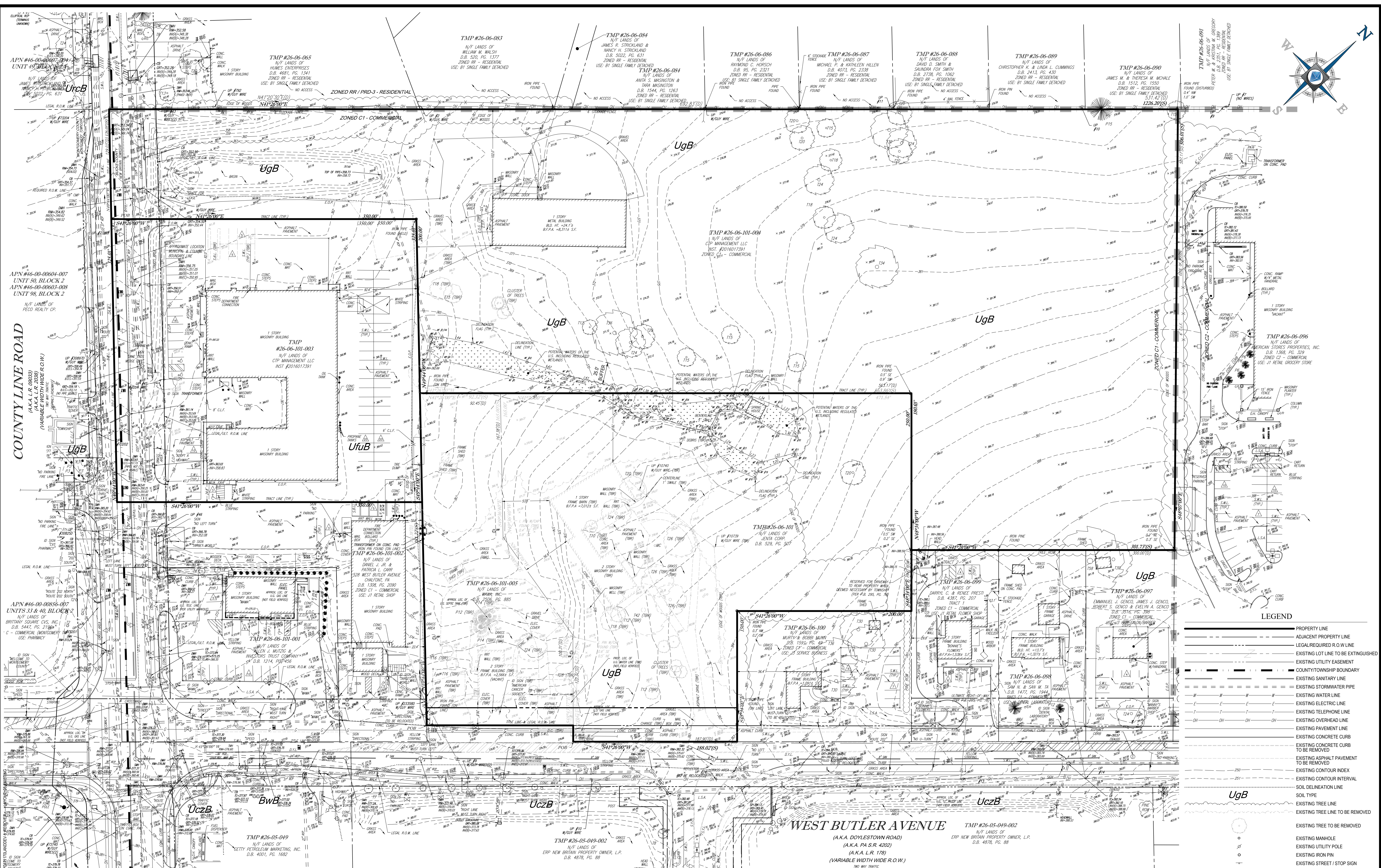
SHEET NUMBER:

6

OF 37

REVISION 1 - 2018.09.21

SITE/CIVIL/TRANSPORTATION/SETBACKS/PLAN SETBACKS/DEVELOPMENT/REVISION/PC171170LANDDEV-1.REC001-18.AVD017.08 SITE



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 LAND SURVEYING DESIGN
 SUSTAINABLE DESIGN

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PA1
 1-800-242-1776

POCS SERIAL NUMBER
 2017277117

PROJECT No.: PC171170
 DRAWN BY: JHT
 CHECKED BY: JRK
 DATE: 5/18/2018
 SCALE: 1" = 50'
 CAD I.D.: PC171170LANDEV-1 RECOV

FINAL LAND DEVELOPMENT PLANS

FOR

PROVCO PINEGOOD, CHALFONT, LLC

PROPOSED WAWA

BUTLER AVENUE (SR 4202) & COUNTY LINE ROAD
 NEW BRITAIN TOWNSHIP
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J.R. KORCZAK

PROFESSIONAL ENGINEER
 PENNSYLVANIA LICENSE NO. PE074279

SHEET TITLE:
EXISTING RESOURCE AND SITE ANALYSIS PLAN

SHEET NUMBER:
8
 OF 37

REVISION 1 - 2018.09.21

WETLANDS LINE TABLE

LINE	DISTANCE	BEARING	L17	L18	L19	L20	L21	L22	L23	L24	L25	L26	L27	L28	L29	L30	L31	L32	L33	L34	L35	L36	L37	L38	L39	L40	L41	L42	L43	L44
L1	14.28	S42°11'15"W	S19°48'43"W	24.07	8.38	45.69	38.02	25.91	80.16	22.94	11.68	14.22	8.45	12.10	15.28	35.95	8.83	10.42	22.46	13.85	56.68	34.21	25.89	19.20	20.67	50.87	51.14	65.97	35.47	
L2	31.92	S40°33'34"E	S18°23'07"E	21.18	4.69	18.78	77.90	47.85	60.16	18.78	11.68	14.22	8.45	12.10	15.28	35.95	8.83	10.42	22.46	13.85	56.68	34.21	25.89	19.20	20.67	50.87	51.14	65.97	35.47	
L3	18.78	N01°01'18"E	N01°01'18"E	1.18	3.92	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68
L4	77.90	N64°49'43"E	N64°49'43"E	1.18	3.92	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68
L5	47.85	N52°47'21"E	N52°47'21"E	1.18	3.92	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68
L6	60.16	N65°14'58"E	N65°14'58"E	1.18	3.92	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68
L7	22.94	N10°11'07"E	N10°11'07"E	1.18	3.92	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68
L8	11.68	N80°51'45"E	N80°51'45"E	1.18	3.92	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68
L9	14.22	N69°10'24"E	N69°10'24"E	1.18	3.92	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68
L10	8.45	N10°58'20"E	N10°58'20"E	1.18	3.92	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68
L11	12.10	N67°42'42"E	N67°42'42"E	1.18	3.92	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68
L12	15.28	S84°49'28"E	S84°49'28"E	1.18	3.92	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68
L13	35.95	N80°14'38"E	N80°14'38"E	1.18	3.92	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68
L14	8.83	N44°06'51"W	N44°06'51"W	1.18	3.92	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68
L15	10.42	N80°54'04"E	N80°54'04"E	1.18	3.92	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68
L16	22.46	S74°45'30"E	S74°45'30"E	1.18	3.92	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68	11.68

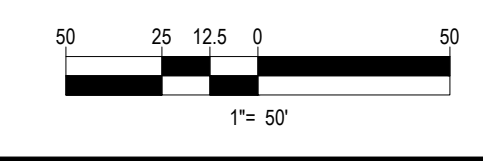
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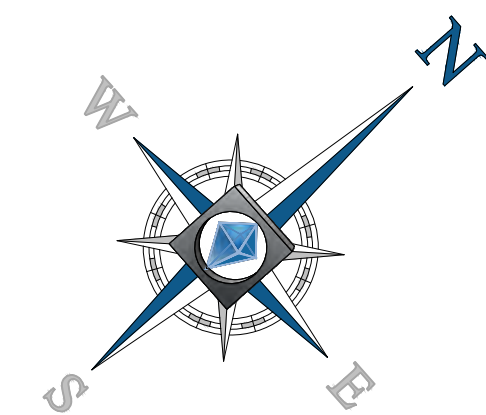
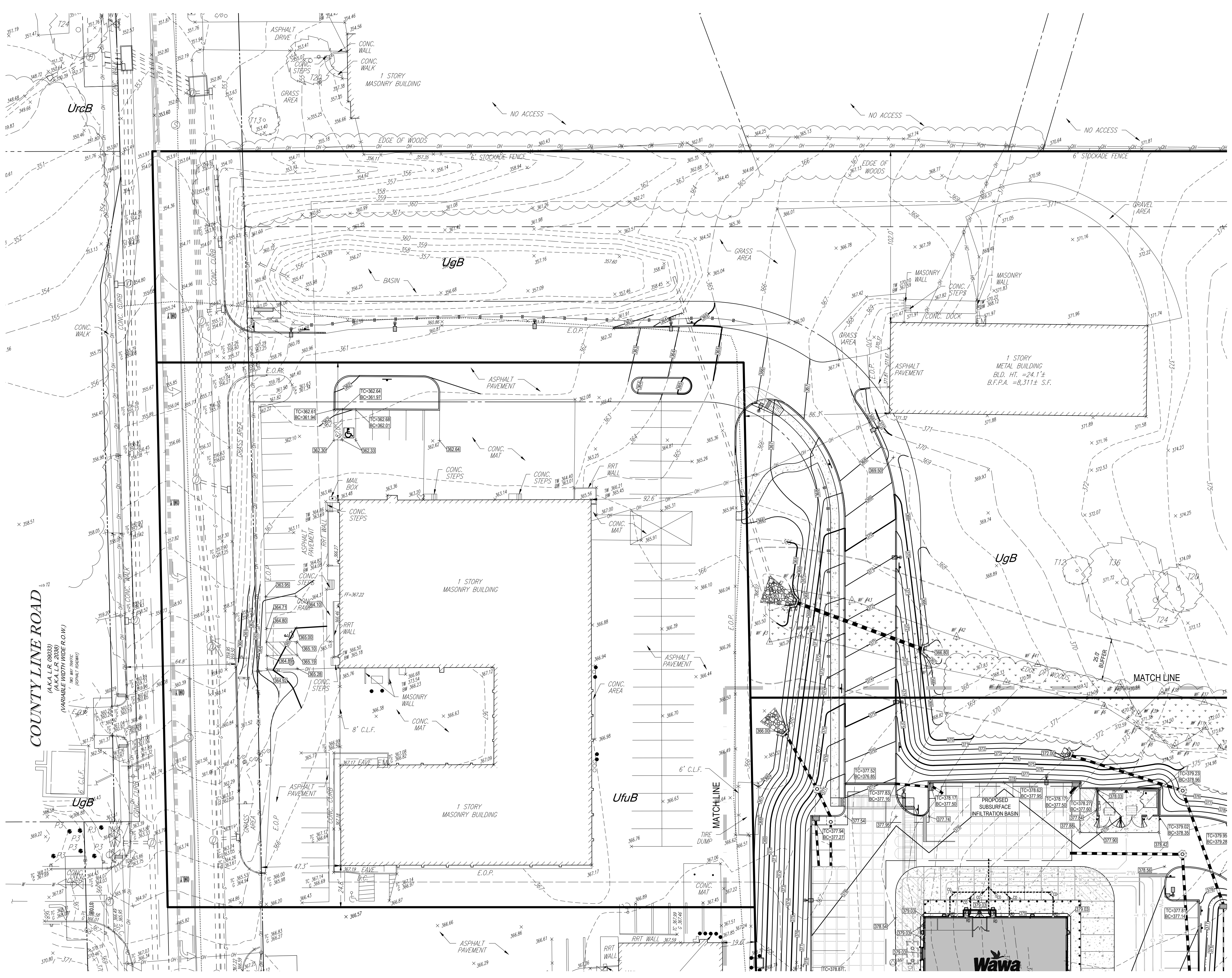
THE FOLLOWING COMPANIES WERE NOTIFIED BY PENNSYLVANIA ONE-CALL SYSTEM (1-800-242-1776) AND REQUESTED TO MARK OUT UNDERGROUND FACILITIES AFFECTING AND SERVICING THIS SITE. THE UNDERGROUND UTILITY INFORMATION SHOWN HEREON IS BASED UPON THE UTILITY COMPANIES RESPONSE TO THIS REQUEST. SERIAL NUMBER: 2017277117

UTILITY COMPANY	PHONE NUMBER
CROWN CASTLE	724-416-2000
CHALFONT NEW BRITAIN JOINT AUTH.	215-345-1225
BUCKS COUNTY WATER & SEWER	215-750-0585
AQUA PENNSYLVANIA, INC.	610-525-1400
PECO	215-345-6900
NORTH WALES WATER	215-699-4836
NEW BRITAIN TWP.	215-822-1391
COMCAST CABLEVISION	215-961-3800
VERIZON	215-969-0025

SOIL DESCRIPTIONS

SOIL DESCRIPTION	HYDROLOGIC SOIL GROUP
UcB - URBAN LAND, 0 TO 8 PERCENT SLOPES	NOT RATED
UcB - URBAN LAND, ABOUT TOWN COMPLEX, 0 TO 8 PERCENT SLOPES	D





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 • WICHITA, KS

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FINAL LAND DEVELOPMENT PLANS

FOR

PROVCO PINEGOOD, CHALFONT, LLC

PROPOSED WAWA

BUTLER AVENUE (SR 4202) & COUNTY LINE ROAD
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J.R. KORCZAK

PROFESSIONAL ENGINEER
 PENNSYLVANIA LICENSE NO. PE074279

SHEET TITLE:

GRADING PLAN

SHEET NUMBER:

11
OF 37

REVISION 1 - 2018.09.21

LEGEND

	PROPERTY LINE
	ADJACENT PROPERTY LINE
	LEGAL/REQUIRED R.O.W. LINE
	EXISTING UTILITY EASEMENT
	COUNTY/TOWNSHIP BOUNDARY
	ULTIMATE R.O.W. LINE
	EXISTING SANITARY LINE (SIZE AND MATERIAL AS NOTED)
	EXISTING STORMWATER PIPE (SIZE AND MATERIAL AS NOTED)
	EXISTING WATER LINE
	EXISTING ELECTRIC LINE
	EXISTING TELEPHONE LINE
	EXISTING OVERHEAD LINE
	EXISTING 8" SANITARY LINE
	PROPOSED 8" SANITARY LINE
	PROPOSED STORMWATER PIPE
	PROPOSED 3" PVC WATER SERVICE
	PROPOSED 2" WATER DOMESTIC LINE
	PROPOSED GAS LINE
	PROPOSED UNDERGROUND ELECTRIC AND TELEPHONE
	PROPOSED UNDERGROUND TELEPHONE
	EXISTING CONTOUR INDEX
	EXISTING CONTOUR INTERVAL
	EXISTING SPOT ELEVATION
	PROPOSED CONTOUR INDEX
	PROPOSED CONTOUR INTERVAL
	PROPOSED RIDGE LINE
	PROPOSED TOP / BOTTOM OF CURB ELEVATION
	PROPOSED TOP / BOTTOM OF WALL ELEVATION
	PROPOSED SPOT ELEVATION

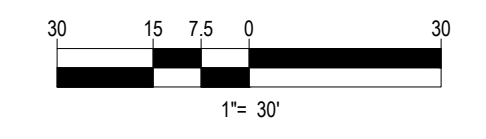
UTILITIES:

THE FOLLOWING COMPANIES WERE NOTIFIED BY PENNSYLVANIA ONE-CALL SYSTEM (1-800-242-1776) AND REQUESTED TO MARK OUT UNDERGROUND FACILITIES AFFECTING AND SERVING THIS SITE. THE UNDERGROUND UTILITY INFORMATION SHOWN HEREON IS BASED UPON THE UTILITY COMPANIES RESPONSE TO THIS REQUEST. SERIAL NUMBER: 20172771117

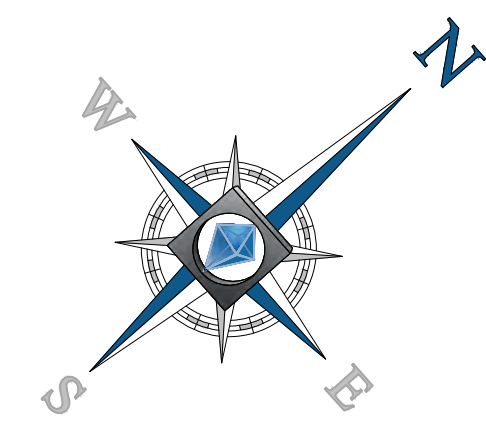
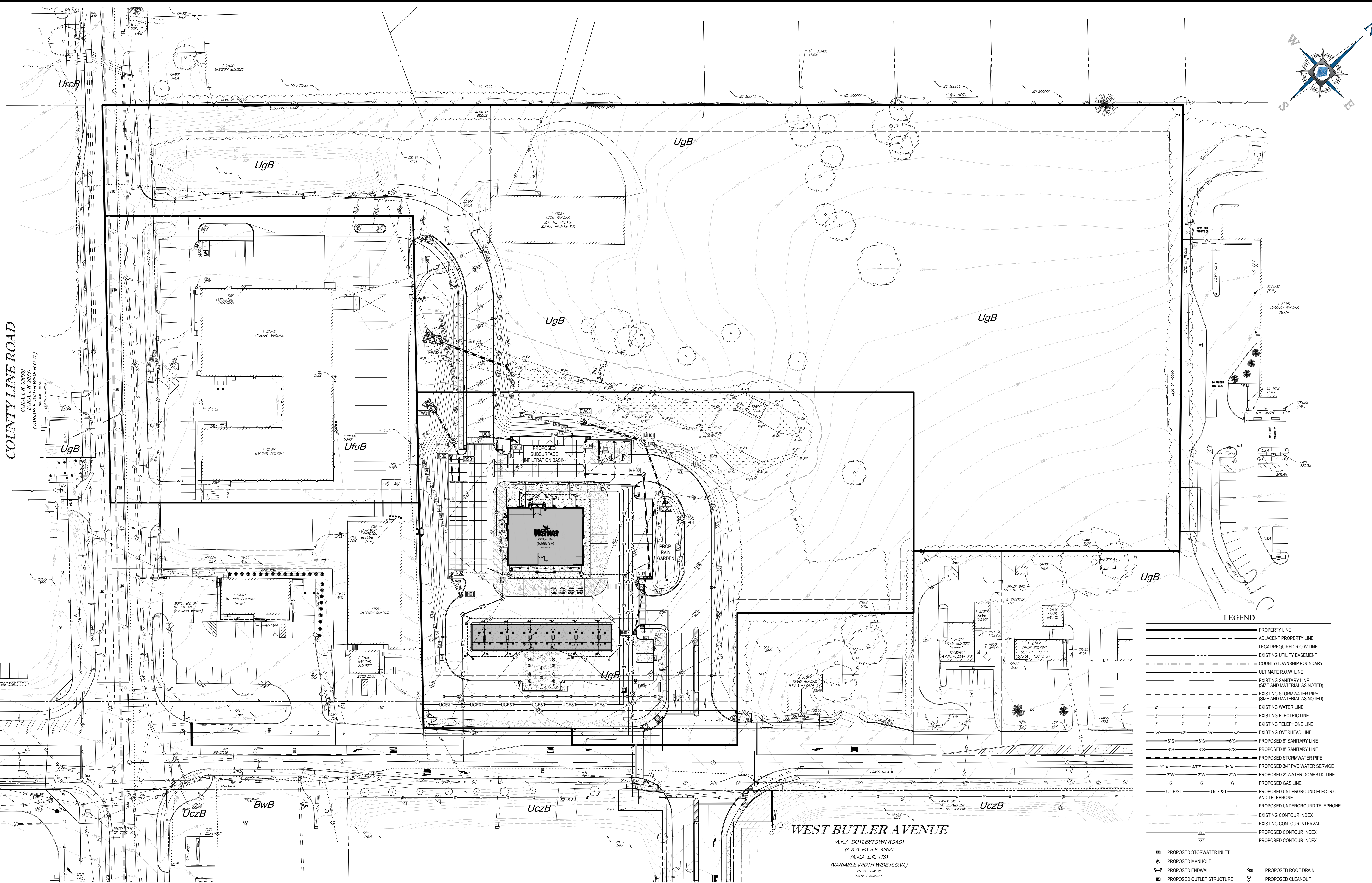
UTILITY COMPANY	PHONE NUMBER
CROWN CASTLE	724-416-2000
CHALFONT-NEW BRITAIN JOINT AUTH.	215-345-1225
BUCKS COUNTY WATER & SEWER	215-750-0585
AQUA PENNSYLVANIA, INC.	610-525-1400
PECO	215-345-3300
NORTH WALES WATER	215-699-4836
NEW BRITAIN TWP.	215-822-1391
COMCAST CABLEVISION	215-961-3800
VERIZON	215-988-0025

SOIL DESCRIPTIONS

SOIL DESCRIPTION	HYDROLOGIC SOIL GROUP
UgB - URBAN LAND, 0 TO 8 PERCENT SLOPES	NOT RATED
UrbB - URBAN LAND - ABBOTTSTOWN COMPLEX, 0 TO 8 PERCENT SLOPES	D



I:\PROJECTS\TOWNSHIP PLAN SETS\LAND DEVELOPMENT\REVISION 1\PC171170LANDDEV_1_REC001.dwg - JAWOUT 11.09.2018



BOHLER ENGINEERING

SITE, CIVIL AND CONSULTING ENGINEERING
 LAND SURVEYING DESIGN PERMITTING SERVICES TRANSPORTATION SERVICES
 SUSTAINABLE DESIGN

CHARLOTTE, NC
 CHICAGO, IL
 COLUMBIA, SC
 DALLAS, TX
 DENVER, CO
 HOUSTON, TX
 INDIANAPOLIS, IN
 JACKSONVILLE, FL
 KANSAS CITY, MO
 LOS ANGELES, CA
 MEMPHIS, TN
 MIAMI, FL
 MINNEAPOLIS, MN
 NEW YORK, NY
 OMAHA, NE
 PHOENIX, AZ
 RICHMOND, VA
 SAN ANTONIO, TX
 TAMPA, FL
 WASHINGTON, DC
 WICHITA, KS

REVISIONS

REV	DATE	COMMENT	BY
1	09/21/18	PER TOWNSHIP REVIEW COMMENTS	JHT

CALL BEFORE YOU DIG!

PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE - STOP-CALL

POCS SERIAL NUMBER
 20172771117

PROJECT No.: PC171170
 DRAWN BY: JHT
 CHECKED BY: JRK
 DATE: 5/18/2018
 SCALE: 1" = 50'
 CAD I.D.: PC171170LANDDEV-1

FINAL LAND DEVELOPMENT PLANS

FOR

PROVCO PINEGOOD, CHALFONT, LLC

PROPOSED WAWA

BUTLER AVENUE (SR 4202) & COUNTY LINE ROAD
 NEW BRITAIN TOWNSHIP
 BUCKS COUNTY
 PENNSYLVANIA

BOHLER ENGINEERING

1600 MANOR DRIVE, SUITE 200
 CHALFONT, PENNSYLVANIA 18914
 Phone: (215) 996-9100
 Fax: (215) 996-9102
www.BohlerEngineering.com

J.R. KORCZAK

PROFESSIONAL ENGINEER
 PENNSYLVANIA LICENSE NO. PE074279

SHEET TITLE:

OVERALL UTILITY PLAN

SHEET NUMBER:

12

OF 37

REVISION 1 - 2018.09.21

LEGEND

- PROPERTY LINE
- - - ADJACENT PROPERTY LINE
- - - LEGAL REQUIRED R.O.W. LINE
- - - EXISTING UTILITY EASEMENT
- - - COUNTY/TOWNSHIP BOUNDARY
- - - ULTIMATE R.O.W. LINE
- - - EXISTING SANITARY LINE (SIZE AND MATERIAL AS NOTED)
- - - EXISTING STORMWATER PIPE (SIZE AND MATERIAL AS NOTED)
- - - EXISTING WATER LINE
- - - EXISTING ELECTRIC LINE
- - - EXISTING TELEPHONE LINE
- - - EXISTING OVERHEAD LINE
- - - PROPOSED 8" SANITARY LINE
- - - PROPOSED 8" SANITARY LINE
- - - PROPOSED STORMWATER PIPE
- - - PROPOSED 3/4" PVC WATER SERVICE
- - - PROPOSED 2" WATER DOMESTIC LINE
- - - PROPOSED GAS LINE
- - - UGB&T PROPOSED UNDERGROUND ELECTRIC AND TELEPHONE
- - - PROPOSED UNDERGROUND TELEPHONE
- - - EXISTING CONTOUR INDEX
- - - EXISTING CONTOUR INTERVAL
- - - PROPOSED CONTOUR INDEX
- - - PROPOSED CONTOUR INDEX

UTILITIES:

- PROPOSED STORMWATER INLET
- PROPOSED MANHOLE
- PROPOSED ENDWALL
- PROPOSED OUTLET STRUCTURE
- PROPOSED TRENCH DRAIN
- PROPOSED ROOF DRAIN
- PROPOSED CLEANOUT

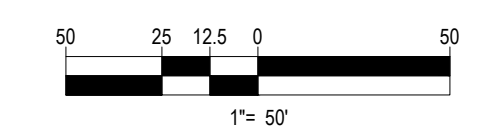
SOIL DESCRIPTIONS

- U6B - URBAN LAND, 0 TO 8 PERCENT SLOPES
- U6B - URBAN LAND - ABBOTTSTOWN COMPLEX, 0 TO 8 PERCENT SLOPES

THE FOLLOWING COMPANIES WERE NOTIFIED BY PENNSYLVANIA ONE-CALL SYSTEM (1-800-242-1776) AND REQUESTED TO MARK OUT UNDERGROUND FACILITIES AFFECTING AND SERVICING THIS SITE. THE UNDERGROUND UTILITY INFORMATION SHOWN HEREON IS BASED UPON THE UTILITY COMPANIES RESPONSE TO THIS REQUEST.

SERIAL NUMBER: 20172771117

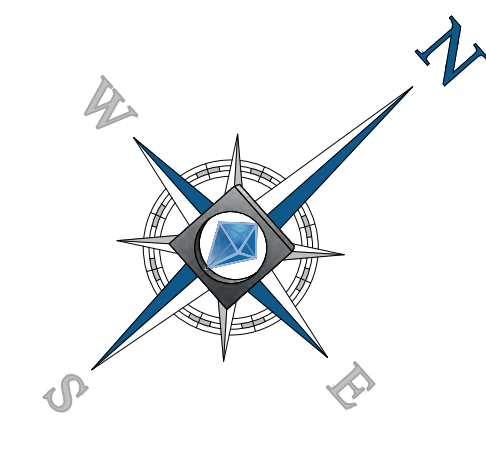
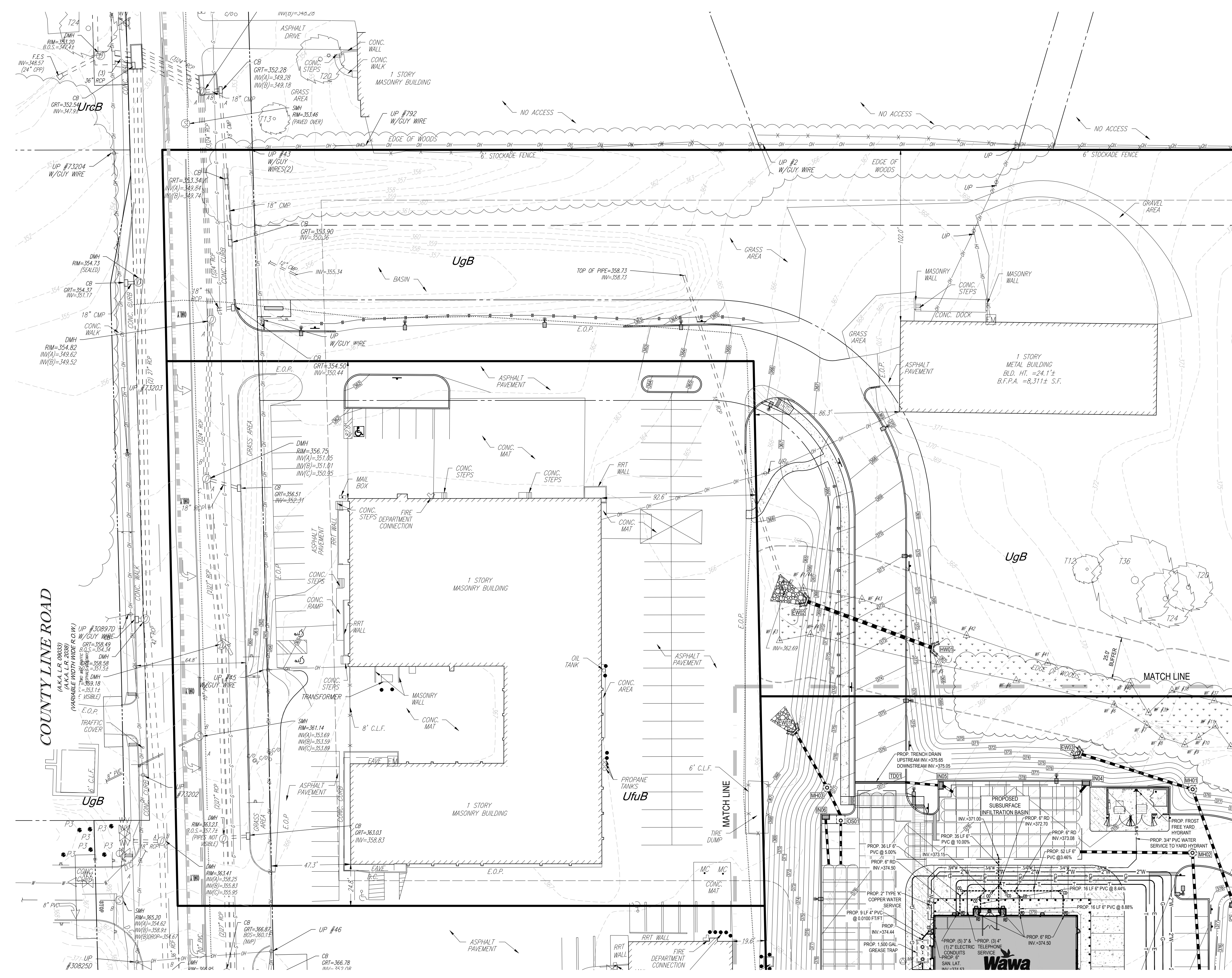
UTILITY COMPANY	PHONE NUMBER
CROWN CASTLE	724-416-2000
CHALFONT-NEW BRITAIN JOINT AUTH.	215-345-1225
BUCKS COUNTY WATER & SEWER	215-750-0585
AQUA PENNSYLVANIA, INC.	810-525-1400
PECO	215-345-9200
NORTH WALES WATER	215-699-4836
NEW BRITAIN TWP.	215-822-1391
COMCAST CABLEVISION	215-961-3800
VERIZON	215-868-0025



COUNTY LINE ROAD
 (A.K.A. L.R. 08033)
 (VARIABLE WIDTH WIDE R.O.W.)

WEST BUTLER AVENUE
 (A.K.A. DOYLESTOWN ROAD)
 (A.K.A. PA S.R. 4202)
 (A.K.A. L.R. 178)
 (VARIABLE WIDTH WIDE R.O.W.)

JOB NO. 170901
 DATE: 09/21/18
 DRAWN BY: JHT
 CHECKED BY: JRK
 DATE: 5/18/2018
 SCALE: 1" = 50'
 CAD I.D.: PC171170LANDDEV-1

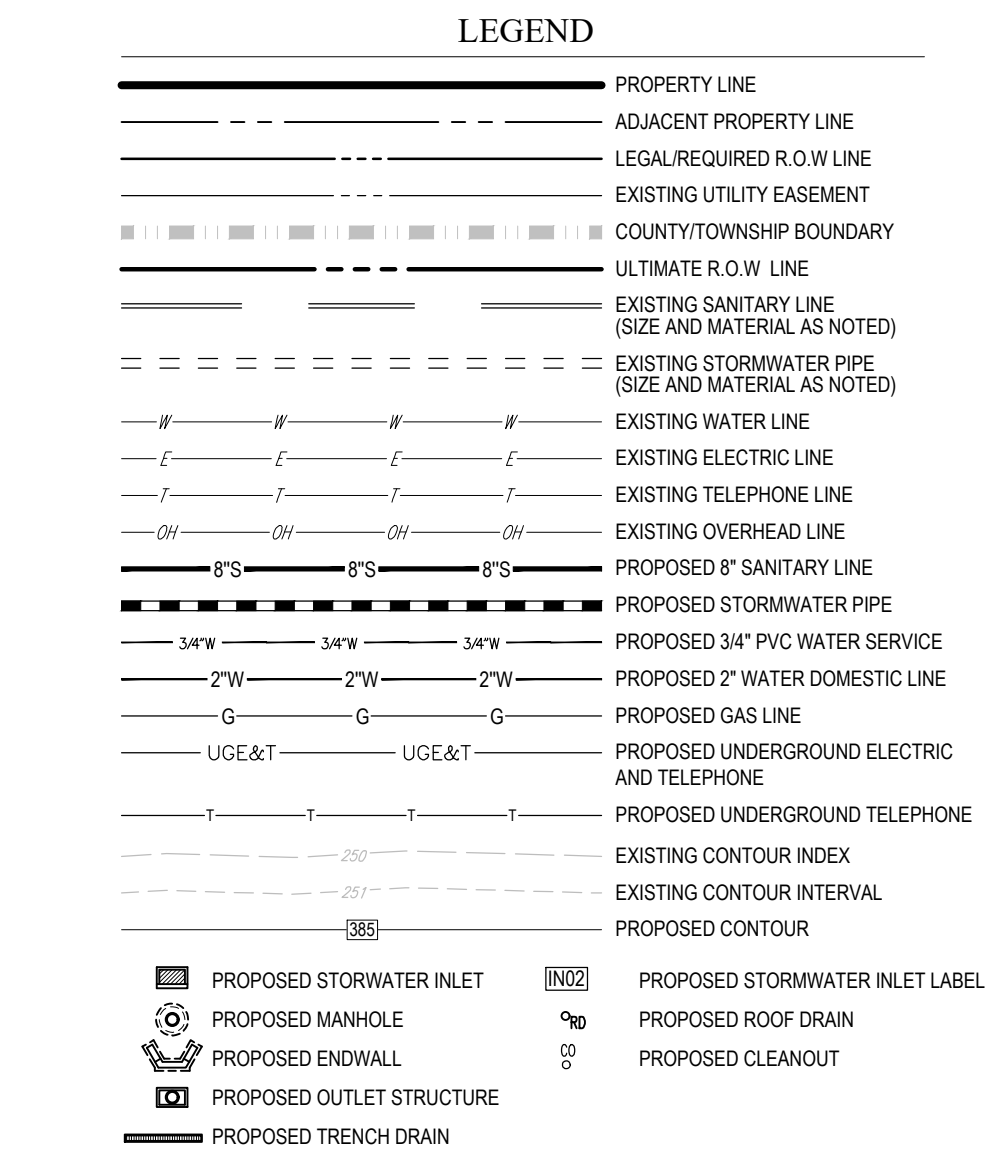


STORM PIPE RUN TABLE

RUN	LENGTH (LF)	SLOPE (%)	SIZE (IN)	MATERIAL
IN01-IN02	22	0.50	15	HDPE
IN02-UGB1	4	0.50	15	HDPE
IN03-MH02	114	0.50	18	HDPE
IN04-UGB1	5	0.60	15	HDPE
IN05-UGB1	7	0.57	15	HDPE
IN06-UGB1	27	0.52	15	HDPE
IN07-IN03	61	2.15	18	HDPE
MH01-EW03	70	0.50	15	HDPE
MH02-UGB1	65	0.51	18	HDPE
MH03-EW01	37	2.08	18	HDPE
OS01-MH03	17	4.53	18	HDPE
OS02-MH01	72	0.74	15	HDPE
TD01-IN05	20	8.00	4	HDPE

STORM STRUCTURE TABLE

STRUCTURE	RIM/GATE	INVERT(S) IN	INVERT OUT
EW01	-	366.00 (18" MH03)	372.12 (15" MH01)
EW03	-	377.50	370.83 (15" IN02)
IN01	377.50	370.83 (15" IN01)	370.83 (15" UGB1)
IN02	376.24	371.88 (18" IN07)	371.72 (15" MH02)
IN04	377.50	-	370.66 (15" UGB1)
IN05	377.50	373.45 (4" TD01)	370.67 (15" UGB1)
IN06	377.27	-	370.71 (15" UGB1)
IN07	377.72	-	373.20 (18" IN03)
MH01	375.86	372.47 (15" OS02)	372.47 (15" EW03)
MH02	378.69	374.15 (18" IN03)	378.58 (15" UGB1)
MH03	375.50	369.73 (18" OS01)	366.77 (18" EW01)
OS01	-	-	370.50 (15" MH03)
OS02	-	-	373.00 (15" MH01)
TD01	378.85	-	375.05 (4" IN05)
UGB1	-	370.83 (15" IN01)	370.83 (15" IN02)
		370.83 (15" IN03)	370.65 (15" MH02)

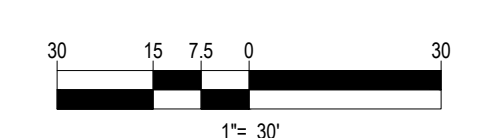


UTILITIES:
 THE FOLLOWING COMPANIES WERE NOTIFIED BY PENNSYLVANIA ONE-CALL SYSTEM (1-800-242-1776) AND REQUESTED TO MARK OUT UNDERGROUND FACILITIES AFFECTING THIS SITE. THE UNDERGROUND UTILITY INFORMATION SHOWN HEREON IS BASED UPON THE UTILITY COMPANIES RESPONSE TO THIS REQUEST. SERIAL NUMBER: 20127271117

UTILITY COMPANY
 CROWN CASTLE
 CHALFONT-NEW BRITAIN JOINT AUTH.
 BUCKS COUNTY WATER & SEWER
 AQUA PENNSYLVANIA, INC.
 PECO
 NORTH WALES WATER
 NEW BRITAIN TWP.
 COMCAST CABLEVISION
 VERIZON

PHONE NUMBER
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 215-750-0585
 810-525-1400
 215-345-9200
 215-699-4836
 215-822-1391
 215-961-3800
 215-868-0025

SOIL DESCRIPTIONS
 SOIL DESCRIPTION
 UGB - URBAN LAND, 0 TO 8 PERCENT SLOPES
 Ugb - URBAN LAND - ABBOTTSTOWN COMPLEX, 0 TO 8 PERCENT SLOPES



BOHLER ENGINEERING

SITE CIVIL AND CONSULTING ENGINEERING ARCHITECTURE
 SUSTAINABLE DESIGN PERMITTING SERVICES TRANSPORTATION SERVICES

LAND SURVEYING DESIGN

- CHARLOTTE, NC
- ATLANTA, GA
- SOUTH FLORENCE, FL
- DAVIDSON, NC
- GREENSBORO, NC
- WILSON, NC
- CHARLOTTE, NC
- ATLANTA, GA
- SOUTH FLORENCE, FL
- DAVIDSON, NC
- GREENSBORO, NC
- WILSON, NC

REVISIONS

REV	DATE	COMMENT	BY
1	09/21/18	PER TOWNSHIP REVIEW COMMENTS	JHT

CALL BEFORE YOU DIG!

PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE - STOP CALL

PA1
 1-800-242-1776

POCS SERIAL NUMBER
 20127271117

PROJECT No.: PC171170
 DRAWN BY: JHT
 CHECKED BY: JRK
 DATE: 5/18/2018
 SCALE: 1" = 30'
 CAD I.D.: PC171170LANDDEV-1 RECON

FINAL LAND DEVELOPMENT PLANS

FOR

PROVCO PINEGOOD, CHALFONT, LLC

PROPOSED WAWA

BUTLER AVENUE (SR 4202) & COUNTY LINE ROAD
 NEW BRITAIN TOWNSHIP
 BUCKS COUNTY
 PENNSYLVANIA

BOHLER ENGINEERING

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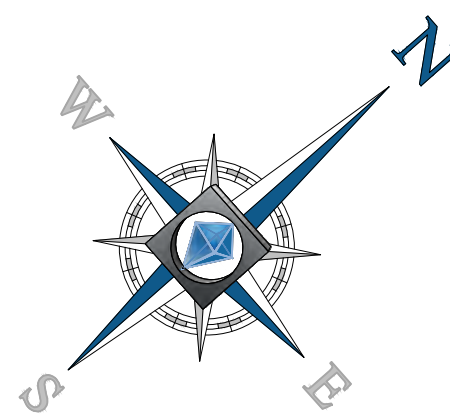
J.R. KORCZAK

PROFESSIONAL ENGINEER
 PENNSYLVANIA LICENSE NO. PE074279

SHEET TITLE:
UTILITY PLAN

SHEET NUMBER:
14
 OF 37

REVISION 1 - 2018.09.21



BOHLER ENGINEERING

SITE CIVIL AND CONSULTING ENGINEERING
 LAND SURVEYING PROGRAM MANAGEMENT LANDSCAPE ARCHITECTURE
 SUSTAINABLE DESIGN PERMITTING SERVICES TRANSPORTATION SERVICES
 LANDSCAPE DESIGN PLANNING DESIGN CONSTRUCTION ADMINISTRATION

PHILADELPHIA, PA
 PITTSBURGH, PA
 BOSTON, MA
 NEW YORK, NY
 WASHINGTON, DC

ATLANTA, GA
 CHARLOTTE, NC
 CHICAGO, IL
 DALLAS, TX
 DENVER, CO
 HOUSTON, TX
 LOS ANGELES, CA
 MIAMI, FL
 MINNEAPOLIS, MN
 NORTHERN VIRGINIA
 PHOENIX, AZ
 RICHMOND, VA
 TAMPA, FL
 WASHINGTON, DC

- GENERAL NOTES:**
- THIS PLAN IS TO BE UTILIZED FOR LANDSCAPE PURPOSES ONLY.
 - ALL DISTURBED UNPAVED AREAS, EXCLUDING PLANTING BEDS, ARE TO BE INSTALLED AS SOODED LAWN IN ACCORDANCE WITH LANDSCAPE SPECIFICATION #2.C, UNLESS OTHERWISE STATED ON THIS PLAN.
 - CONTRACTOR TO PROVIDE AN IRRIGATION DESIGN FOR BOTH LAWN AND BED AREAS. DESIGN IS TO BE SUBMITTED TO THE PROJECT LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL. CONTRACTOR IS ALSO RESPONSIBLE FOR ANY PRESSURE REDUCING DEVICES REQUIRED TO MEET MAXIMUM PRESSURE REQUIREMENT.
 - ALL LANDSCAPE BEDS ARE TO BE INSTALLED WITH WEED BARRIER FABRIC (SEE DETAIL).
 - SHRUBS PLANTED ALONG HEAD-IN PARKING STALLS SHALL BE INSTALLED TO ALLOW A CLEARANCE OF FIVE FEET FROM FACE OF CURB TO ALLOW FOR BUMPER OVERHANG.
 - WHEN APPLICABLE, CENTER OF PROPOSED ORNAMENTAL OR EVERGREEN TREE SHALL BE OFFSET 6' FROM THE BACK OF RETAINING WALLS (1' FOR SHADE TREES) TO PREVENT WALL FAILURE. FINAL PLANTING LOCATIONS SHALL BE COORDINATED WITH THE WALL DESIGNER.
 - WITHOUT EXCEPTION, WEED BARRIER FABRIC SHALL NOT BE USED AT THE BOTTOM OR SIDE SLOPES OF STORMWATER BMP FACILITIES.

REVISIONS

REV	DATE	COMMENT	BY
1	09/21/18	PER TOWNSHIP REVIEW COMMENTS	JHT

CALL BEFORE YOU DIG!

PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE - STOP CALL

POCS SERIAL NUMBER: 2017271117

1-800-242-1776

PROJECT No.: PC171170
 DRAWN BY: JHT
 CHECKED BY: JRK
 DATE: 5/18/2018
 SCALE: 1" = 30'
 CAD I.D.: PC171170 LSCP-1

FINAL LAND DEVELOPMENT PLANS

FOR

PROVCO PINEGOOD, CHALFONT, LLC

PROPOSED WAWA

BUTLER AVENUE (SR 4202) & COUNTY LINE ROAD
 NEW BRITAIN TOWNSHIP
 BUCKS COUNTY
 PENNSYLVANIA

BOHLER ENGINEERING

1600 MANOR DRIVE, SUITE 200
 CHALFONT, PENNSYLVANIA 18914
 Phone: (215) 996-9100
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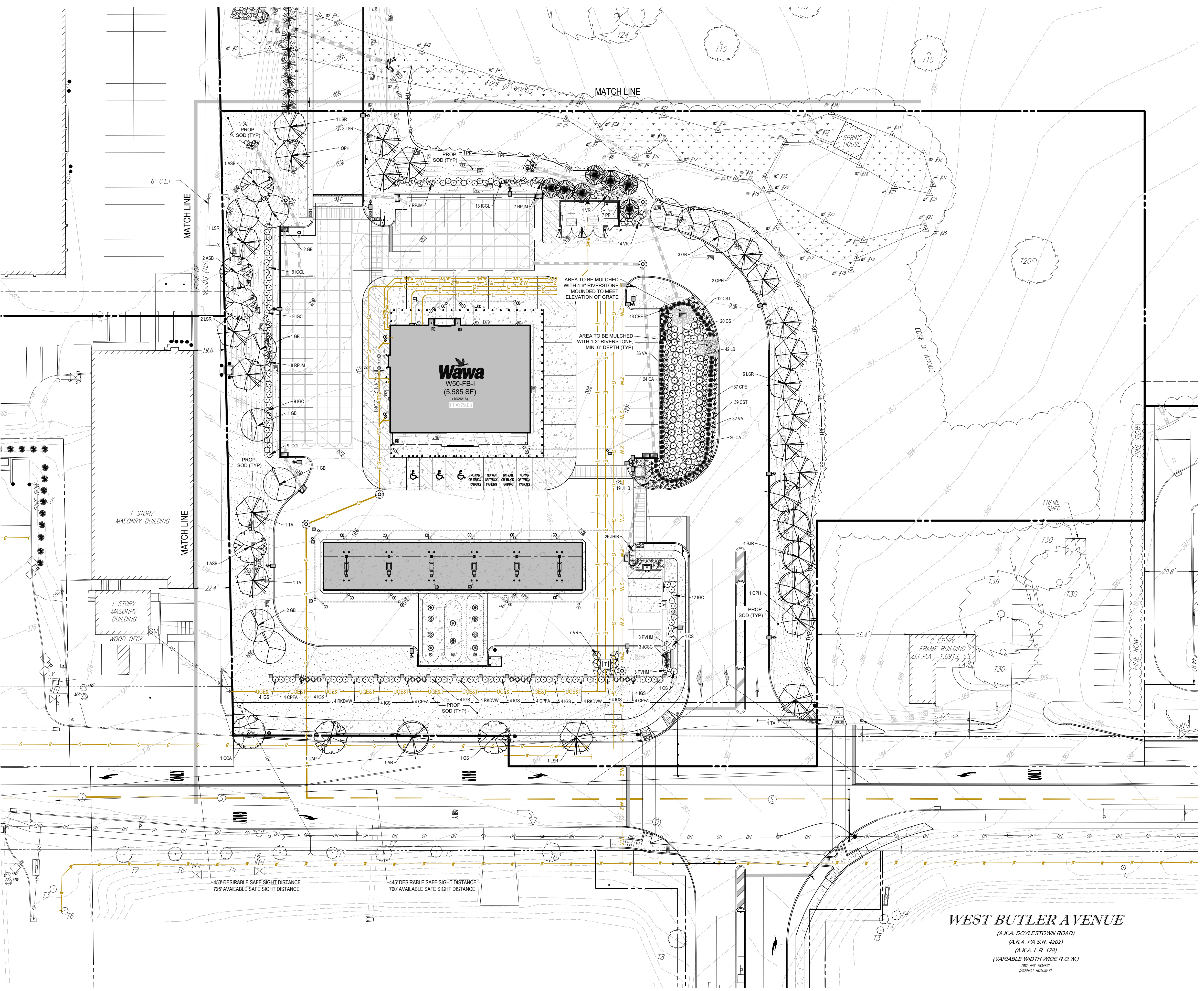
D.T. NORTH

REGISTERED LANDSCAPE ARCHITECT
 PENNSYLVANIA LICENSE NO. LA002729

SHEET TITLE:
LANDSCAPE PLAN

SHEET NUMBER:
17
 OF 37

REVISION 1 - 2018.09.21

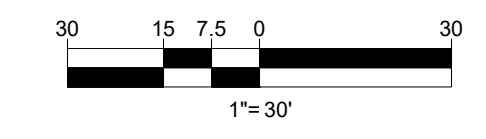


LANDSCAPE SCHEDULE

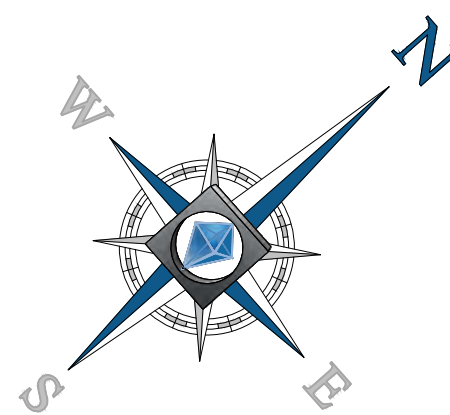
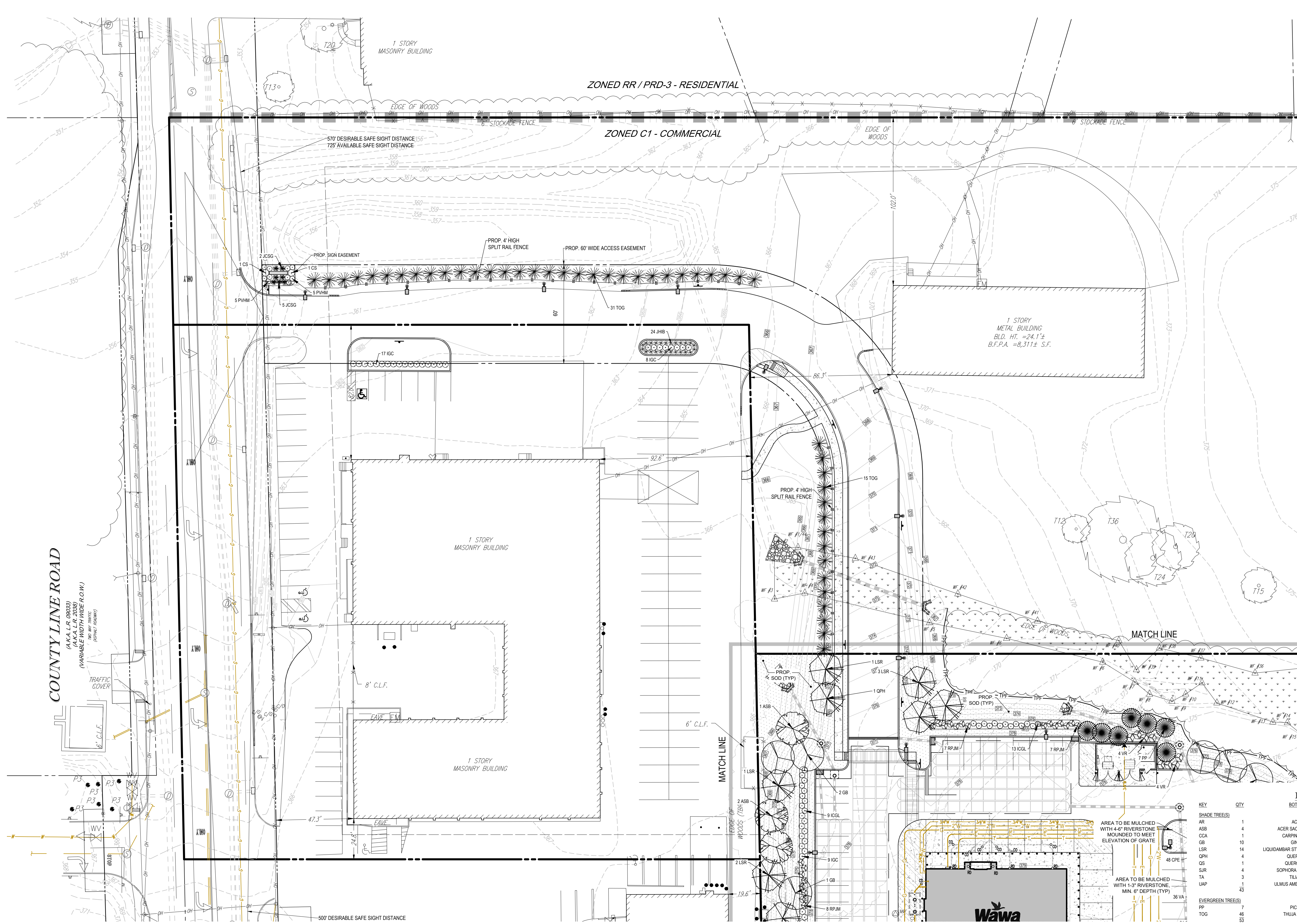
KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
SHADE TREES(S)					
AR	1	ACER RUBRUM	RED MAPLE	3 1/2" CAL. MIN.	B+B
ASB	4	ACER SACCHARUM 'BONIFER'	BONIFER SUGAR MAPLE	3 1/2" CAL. MIN.	B+B
CCA	1	CARPINUS CAROLINIANA	AMERICAN HORSEBEAM	3 1/2" CAL. MIN.	B+B
GB	10	GINKGO BILBOA	MAIDENHAIR TREE GINKO	3 1/2" CAL. MIN.	B+B, MALE ONLY
LSR	14	LIQUIDAMBAR STYRACIFLUA ROTUNDIFOLIA	SEEDLESS SWIFTOAM	3 1/2" CAL. MIN.	B+B
QPH	4	QUERCUS PHAELOS	WILLOW OAK	3 1/2" CAL. MIN.	B+B
QS	1	QUERCUS SHUMARDII	SHUMARD OAK	3 1/2" CAL. MIN.	B+B
SJR	4	SOPHORA JAPONICA 'REGEN'	REGENT JAPANESE PAGODA TREE(S)	3 1/2" CAL. MIN.	B+B
TA	3	TILIA AMERICANA	BASSWOOD	3 1/2" CAL. MIN.	B+B
IAP	43	ULMUS AMERICANA 'PRINCETON'	PRINCETON AMERICAN ELM	3 1/2" CAL. MIN.	B+B
EVERGREEN TREES(S)					
PP	7	PICEA PLUNGENS	COLORADO SPRUCE	6'-7'	B+B
TOG	46	THUJA X 'GREEN GIANT'	GREEN GIANT ARBORVITAE	6'-7'	B+B
EVERGREEN SHRUB(S)					
CPFA	16	CHAMAECYPARIS TILIFERA AUREA NANA	DWARF GOLD THREAD CYPRESS	30" SPRD. MIN.	CONTAINER
IGL	31	ILEX CRENATA 'GREEN LUSTER'	GREEN LUSTER HOLLY	30" MIN.	CONTAINER
IGC	55	ILEX GLABRA COMPACTA	DWARF INKBERRY HOLLY	30" MIN.	CONTAINER
IGS	32	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY HOLLY	30" MIN.	CONTAINER
JCSG	10	JUNIPERUS CHINENSIS 'SEA GREEN'	SEA GREEN JUNIPER	30" SPRD. MIN.	B+B
RQVW	12	RHOODOENDRON X KURLUME DELAWARE VALLEY WHITE'	DELAWARE VALLEY WHITE AZALEA	30" MIN.	CONTAINER
RPJM	22	RHOODOENDRON CAROLINANA X PAM	PAM RHOODOENDRON	30" MIN.	B+B
VR	15	VIBURNUM X BRITTONIIFOLIUM	LEATHERLEAF VIBURNUM	3'-4'	B+B
DECIDUOUS SHRUB(S)					
CA	44	CLETHRA ALNIFOLIA	SUMMERSWEET CLETHRA	30" MIN.	CONTAINER
CS	24	CORNUS SERICEA	RED OSIER DOGWOOD	30" MIN.	B+B
LB	42	LINDERA BENZON	SPIECEBUSH	30" MIN.	CONTAINER
VA	68	VACCINIUM ANGUSTRIFOLIUM	LOWBUSH BLUEBERRY	15-18"	CONTAINER
VR	178				
GROUND COVER					
JHB	60	JUNIPERUS HORIZONTALIS 'MONBER'	ICEE BLUE JUNIPER	15-18" SPRD	CONTAINER
ORNAMENTAL GRASSES(S)					
CPE	85	CAREX PENNSYLVANICA	PENNSYLVANIA SEDGE	1 GAL.	CONTAINER
ST	51	CAREX STRICTA	TUSSOCK SEDGE	1 GAL.	CONTAINER
PVM	152	PANICUM VIRGATUM 'HEAVY METAL'	HEAVY METAL SWITCH GRASS	1 GAL.	CONTAINER

NOTE: IF ANY DISCREPANCIES OCCUR BETWEEN AMOUNTS SHOWN IN THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE.

WEST BUTLER AVENUE
 (A.K.A. DOYLESTOWN ROAD)
 (A.K.A. PA S.R. 4202)
 (A.K.A. L.R. 178)
 (VARIABLE WIDTH WIDE R.O.W.)
 300' MIN. WIDTH
 (SHOULDER SIDEWAYS)



PROJECT TOWNSHIPS PLAN SETS AND DEVELOPMENT REVISIONS: PC171170 LSCP-1 - 17/09/21



GENERAL NOTES:

1. THIS PLAN IS TO BE UTILIZED FOR LANDSCAPE PURPOSES ONLY.
2. ALL DISTURBED UNPAVED AREAS, EXCLUDING PLANTING BEDS, ARE TO BE INSTALLED AS SODDED LAWN IN ACCORDANCE WITH LANDSCAPE SPECIFICATION #2.C, UNLESS OTHERWISE STATED ON THIS PLAN.
3. CONTRACTOR TO PROVIDE AN IRRIGATION DESIGN FOR BOTH LAWN AND BED AREAS. DESIGN IS TO BE SUBMITTED TO THE PROJECT LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL. CONTRACTOR IS ALSO RESPONSIBLE FOR ANY PRESSURE REDUCING DEVICES REQUIRED TO MEET MAXIMUM PRESSURE REQUIREMENT.
4. ALL LANDSCAPE BEDS ARE TO BE INSTALLED WITH WEED BARRIER FABRIC (SEE DETAIL).
5. SHRUBS PLANTED ALONG HEAD-IN-PARKING STALLS SHALL BE INSTALLED TO ALLOW A CLEARANCE OF FIVE FEET FROM FACE OF CURB TO ALLOW FOR BUMPER OVERHANG.
6. WHEN APPLICABLE, CENTER OF PROPOSED ORNAMENTAL OR EVERGREEN TREE SHALL BE OFFSET 6" FROM THE BACK OF RETAINING WALLS (11" FOR SHADE TREES) TO PREVENT WALL FAILURE. FINAL PLANTING LOCATIONS SHALL BE COORDINATED WITH THE WALL DESIGNER.
7. WITHOUT EXCEPTION, WEED BARRIER FABRIC SHALL NOT BE USED AT THE BOTTOM OR SIDE SLOPES OF STORMWATER BMP FACILITIES.

REVISIONS

REV	DATE	COMMENT	BY
1	09/21/18	PER TOWNSHIP REVIEW COMMENTS	JHT

CALL BEFORE YOU DIG!

PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE - STOP CALL

PAI
POCS SERIAL NUMBER: 2017271117
1-800-242-1776

PROJECT No.: PC171170
DRAWN BY: JHT
CHECKED BY: JRK
DATE: 5/18/2018
SCALE: 1" = 30'
CAD I.D.: PC171170 LSCP-1

FINAL LAND DEVELOPMENT PLANS

FOR
PROVCO PINEGOOD, CHALFONT, LLC
PROPOSED WAWA
BUTLER AVENUE (SR 4202) & COUNTY LINE ROAD
NEW BRITAIN TOWNSHIP
BUCKS COUNTY
PENNSYLVANIA

BOHLER ENGINEERING
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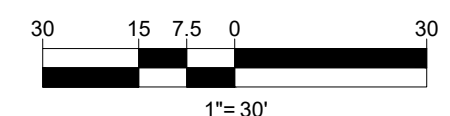
D.T. NORTH
REGISTERED LANDSCAPE ARCHITECT
PENNSYLVANIA LICENSE NO. LA002279

LANDSCAPE PLAN

SHEET NUMBER:
18
OF 37
REVISION 1 - 2018.09.21

LANDSCAPE SCHEDULE

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
SHADE TREES					
AR	1	ACER RUBRUM	RED MAPLE	3 1/2" CAL. MIN.	B+B
ASB	4	ACER SACCHARUM 'BONFIRE'	BONFIRE SUGAR MAPLE	3 1/2" CAL. MIN.	B+B
CCA	1	CARPINUS CAROLINIANA	AMERICAN HORSEBEAM	3 1/2" CAL. MIN.	B+B
GB	10	GRINGO BILGUA	MAIDENHAIR TREE GRIND	3 1/2" CAL. MIN.	B+B, MALE ONLY
LSR	14	LIQUIDAMBAR STYRACIFLUA ROTUNDIFOLIA	SEEDLESS SWEETGUM	3 1/2" CAL. MIN.	B+B
QPH	4	QUERCUS PHELLOS	WILLOW OAK	3 1/2" CAL. MIN.	B+B
QS	1	QUERCUS SHAMROCK	SHAMROCK OAK	3 1/2" CAL. MIN.	B+B
SJR	4	SOPHORA JAPONICA 'REGENT'	REGENT JAPANESE PAGODA TREE(S)	3 1/2" CAL. MIN.	B+B
TA	3	TILIA AMERICANA	BASSWOOD	3 1/2" CAL. MIN.	B+B
UAP	43	ULMUS AMERICANA PRINCETON	PRINCETON AMERICAN ELM	3 1/2" CAL. MIN.	B+B
EVERGREEN TREES					
PP	7	PICEA PLUNGENS	COLORADO SPRUCE	6-7	B+B
TOG	46	THUJA X 'GREEN GIANT'	GREEN GIANT ARBORVITAE	6-7	B+B
EVERGREEN SHRUBS					
CPA	16	CHAMAECYPARIS PISIFERA 'ILFERA ALBA NANA'	DWARF GOLD THREAD CYPRESS	30" SPRD. MIN.	CONTAINER
ICOL	31	ILEX CRENATA 'GREEN LUSTER'	GREEN LUSTER HOLLY	30" MIN.	CONTAINER
IOC	55	ILEX GLABRA COMPACTA	DWARF INKBERRY HOLLY	30" MIN.	CONTAINER
IGS	32	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY HOLLY	30" MIN.	CONTAINER
JCSO	10	JUNIPERUS CHRENSIS 'SEA GREEN'	SEA GREEN JUNIPER	30" SPRD. MIN.	B+B
RNDW	12	RHODODENDRON X KURUME 'DELAVARE VALLEY WHITE'	DELAVARE VALLEY WHITE AZALEA	30" MIN.	CONTAINER
RPJM	22	RHODODENDRON CAROLINIANA X P.J.M	P.J.M RHODODENDRON	30" MIN.	B+B
VR	15	VBURNUM X RHYTOPHYLLUM	LEATHERLEAF VBURNUM	3-4'	B+B
DECIDUOUS SHRUBS					
CA	44	CLETHRA ALNIFOLIA	SUMMERSWEET CLETHRA	30" MIN.	CONTAINER
CS	24	CORNUS SERICEA	RED OSIER DOGWOOD	30" MIN.	B+B
LB	42	LINDERA BENZON	SPICEBUSH	30" MIN.	CONTAINER
VA	68	VACCINIUM ANGSTROPHIUM	LOWBUSH BLUEBERRY	15-18"	CONTAINER
GROUND COVER					
JHB	60	JUNIPERUS HORIZONTALIS 'MONBER'	ICEE BLUE JUNIPER	15-18" SPRD	CONTAINER
ORNAMENTAL GRASSES					
CPE	85	CAREX PENNSYLVANICA	PENNSYLVANIA SEDGE	1 GAL.	CONTAINER
CST	51	CAREX STRICTA	TUSSOCK SEDGE	1 GAL.	CONTAINER
PVMI	16	PANICUM VIRGATUM 'HEAVY METAL'	HEAVY METAL SWITCH GRASS	1 GAL.	CONTAINER

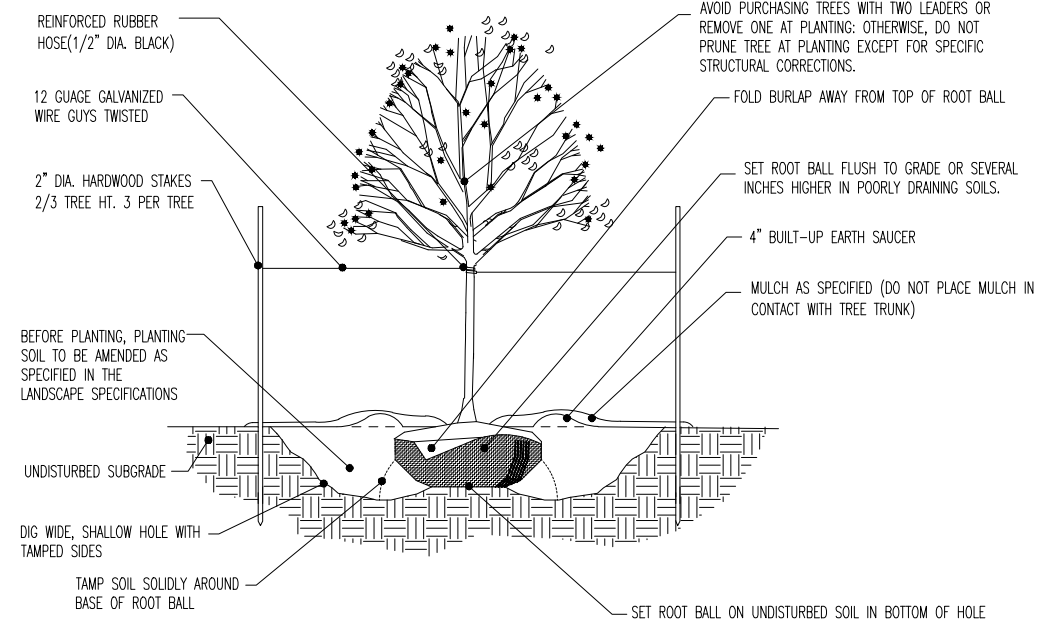


NOTE: IF ANY DISCREPANCIES OCCUR BETWEEN AMOUNTS SHOWN IN THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE.

BOHLER ENGINEERING, INC. 1600 MANOR DRIVE, SUITE 200, CHALFONT, PA 18914
 TEL: (215) 996-9100 FAX: (215) 996-9102 WWW.BOHLERENGINEERING.COM
 PROJECT: TOWNSHIPS PLAN SETS AND DEVELOPMENT REVISIONS: PC171170 LSCP-1 - 18/09/21 - DLS/PC

NOTES

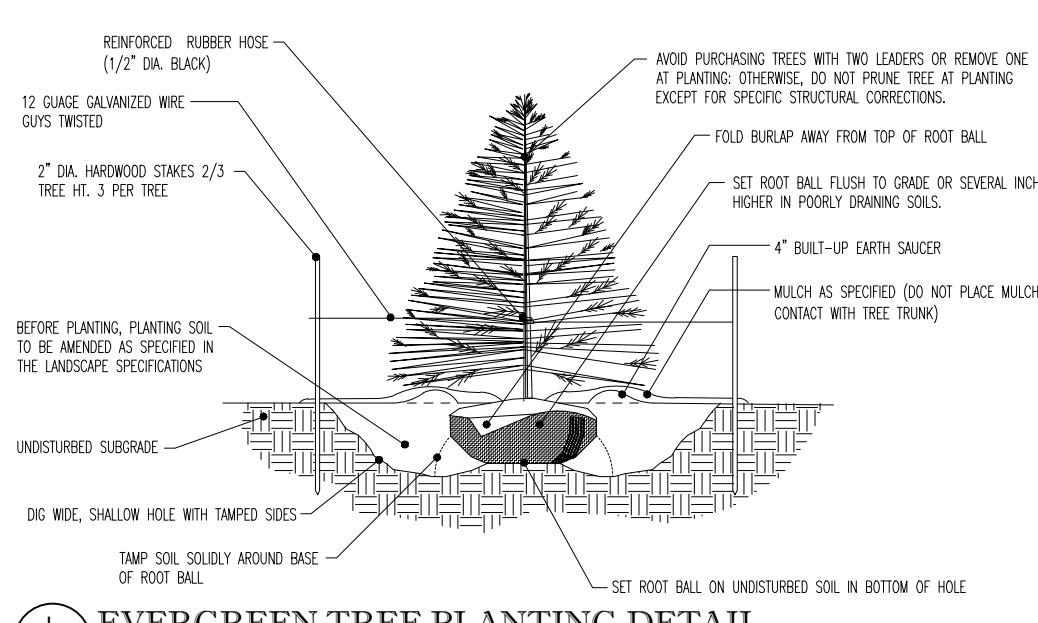
- NO SOIL OR MULCH SHALL BE PLACED AGAINST ROOT COLLAR OF PLANT.
- REMOVE ALL HOPE FROM TRUNK & TOP OF ROOT BALL. FOLD OR BURP BACK FROM TOP 1/3 OF ROOT BALL.
- PLANTING DEPTH SHALL BE THE SAME AS GROWN IN NURSERY.
- THOROUGHLY SOAK THE TREE ROOT BALL AND AROUND PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.
- THE BOTTOM OF PLANTING PIT LOCATIONS SHOULD BE COVERED TO AVOID WETTING OF SOIL.
- THE MINIMUM DIAMETER OF THE TREE PIT SHALL BE 3 TIMES THE DIAMETER OF THE ROOT BALL.
- STAKES SHALL BE REMOVED NO LATER THAN ONE YEAR FROM INSTALLATION.



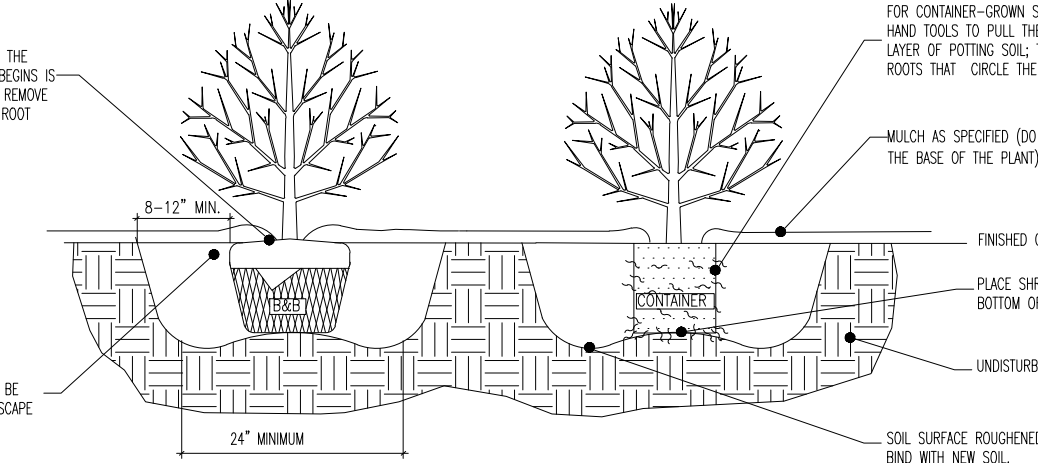
L DECIDUOUS TREE PLANTING DETAIL
SCALE: N.T.S. REV.: 2017.01.06

NOTES

- NO SOIL OR MULCH SHALL BE PLACED AGAINST ROOT COLLAR OF PLANT.
- REMOVE ALL NON-Biodegradable MATERIAL AND HOPE FROM TRUNK & TOP OF ROOT BALL. FOLD BURP BACK 1/3 FROM ROOT BALL.
- PLANTING DEPTH SHALL BE THE SAME AS GROWN IN NURSERY.
- THOROUGHLY SOAK THE TREE ROOT BALL AND AROUND PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.
- THE BOTTOM OF PLANTING PIT LOCATIONS SHOULD BE COVERED TO AVOID WETTING OF SOIL.
- THE MINIMUM DIAMETER OF THE TREE PIT SHALL BE 3 TIMES THE DIAMETER OF THE ROOT BALL.
- STAKES SHALL BE REMOVED NO LATER THAN ONE YEAR FROM INSTALLATION.



L EVERGREEN TREE PLANTING DETAIL
SCALE: N.T.S. REV.: 2017.01.06



L DECIDUOUS & EVERGREEN SHRUB PLANTING DETAIL
SCALE: N.T.S. REV.: 2017.01.06

IRRIGATION SYSTEMS SPECIFICATIONS:

- SCOPE OF WORK: THE LANDSCAPE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ALL CLEARING, FINISHED GRADING, SOIL PREPARATION, PERMANENT SEEDING OR SOODING, PLANTING AND MULCHING INCLUDING ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT NECESSARY FOR THE COMPLETION OF THIS PROJECT, UNLESS OTHERWISE CONTRACTED BY THE GENERAL CONTRACTOR.
- MATERIALS: A. GENERAL: ALL HARDSCAPE MATERIALS SHALL MEET OR EXCEED SPECIFICATIONS AS OUTLINED IN THE STATE DEPARTMENT OF TRANSPORTATION'S SPECIFICATIONS. B. TOPSOIL: NATURAL, FRABILE, LOAMY SILT SOIL, HAVING AN ORGANIC CONTENT NOT LESS THAN 2%, A PH RANGE BETWEEN 6.5 TO 7.5, SHALL BE FREE OF FOREIGN ROCKS LARGER THAN ONE INCH (1\"/>

PERCENTAGE OF APPLICATION

TOTAL WEIGHT	DATE	SEED TYPE	MIN. GERMINATION
20%	5/7 LB/1000 S.F.	"REBEL" TALL FESCUE	90-95
30%	"DORTMUN" PERENNIAL RYE	90-98	
5%	"STREETER" PECTOP	90-98	

E. IN AREAS DESIGNATED AS SOIL FESCUE SOIL IS TO BE INSTALLED ON MINIMUM 4" TOPSOIL. AREAS TO BE SOODED ARE TO BE PREPARED AS NOTED ABOVE FOR SOODED AREAS. PLANT MATERIAL SHALL BE GUARANTEED FOR ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION. THE CONTRACTOR SHALL REPLACE PLANTS, DEAD, UNHEALTHY, DYING OR DAMAGED THROUGH LOSS OF BRANCHES AND/OR FOLIAGE. PLANTS THAT ARE NOT IN GOOD CONDITION AT THE END OF THE GUARANTEE PERIOD SHALL BE REPLACED UNTIL A GOOD LAWN RESULTS. IT IS UNDERSTOOD THAT THE OWNER SHALL ASSUME RESPONSIBILITY FOR WATERING ALL PLANT MATERIAL AND LAWN AREA BEGINNING WITH THE DATE OF SUBSTANTIAL COMPLETION.

LANDSCAPE SPECIFICATIONS:

- PLANTING: A. INSURE THAT IT IS FEASIBLE. PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THAT THIS IS NOT POSSIBLE, LANDSCAPE CONTRACTOR SHALL PROVIDE UNWEATED PLANT MATERIAL. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE DAY PERIOD AFTER DELIVERY. PLANTS THAT WILL NOT BE PLANTED FOR A PERIOD OF MORE THAN 14 DAYS SHALL BE HEALED IN WITH TOPSOIL OR MULCH TO HELP PRESERVE ROOT MOISTURE. B. PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITH THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH ACCEPTED LOCAL PRACTICE. PLANTS SHALL NOT BE INSTALLED IN TOPICAL THAT IS IN A MOODY OR FROZEN CONDITION. C. ANY INJURED ROOTS OR BRANCHES SHALL BE PRUNED TO MAKE CLEAN CUT ENDS PRIOR TO PLANTING UTILIZING CLEAN, SHARP TOOLS. ONLY INJURED OR DISEASED BRANCHING SHALL BE REMOVED. D. ALL PLANTING CONTAINERS, BASKETS AND NON BIODEGRADABLE MATERIALS SHALL BE REMOVED FROM ROOT BALLS DURING PLANTING. UNWANTED FIBER AND/OR MULCH MUST BE CUT FROM AROUND THE TRUNK OF THE TREE AND FLOODED DOWN AGAINST THE ROOT BALL PRIOR TO LOCATIONS. E. POSITION TREES AND SHRUBS AT THEIR INTENDED LOCATIONS AS PER THE PLANS AND SECURE THE APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO EXCAVATING PITS, MAKING NECESSARY ADJUSTMENTS AS DIRECTED. F. PRIOR TO THE EQUATION OF AN OCCUPANCY CERTIFICATE, THE PROPOSED LANDSCAPE, AS SHOWN ON THE APPROVED LANDSCAPE PLAN, MUST BE INSTALLED, INSPECTED AND APPROVED BY THE APPROVING AGENCY. THE APPROVING AGENCY SHALL TAKE INTO ACCOUNT SEASONAL CONSIDERATIONS IN THIS REGARD AS FOLLOWS: THE PLANTING OF TREES, SHRUBS, VINES OR GRASSES COVER SHALL OCCUR ONLY DURING THE FOLLOWING PLANTING SEASONS: 1. PLANTS: MARCH 15 TO DECEMBER 15 2. LAWN: MARCH 15 TO JUNE 15 OR SEPT. 1 TO DECEMBER 1 PLANTINGS REQUIRED FOR A CERTIFICATE OF OCCUPANCY SHALL BE PROVIDED DURING THE NEXT APPROPRIATE SEASON AT THE MUNICIPALITY'S DISCRETION. CONTRACTOR SHOULD CONTACT APPROVING AGENCY FOR POTENTIAL SUBSTITUTIONS. G. FURTHERMORE, THE FOLLOWING TREE VARIETIES ARE UNUSUALLY SUSCEPTIBLE TO WINTER DAMAGE. WITH TRANSPARENT SHOULDER AND THE SEASONAL LACK OF NITROGEN AVAILABILITY, THE RISK OF PLANT DEATH IS GREATLY INCREASED. IT IS NOT RECOMMENDED THAT THESE SPECIES BE PLANTED DURING THE FALL PLANTING SEASON: ACER RUBRUM PLATANUS ACERFOLIA BETAULA VARIETIES PORNUS VARIETIES CARYPTUS VARIETIES PRUNUS VARIETIES CHAETAGUS VARIETIES KOLEUSIFERA QUERCUS VARIETIES LONICERA SYRIACAULIA TILIA TOMENTOSA LIRODENDRON TULIPFERA ZELKOVA VARIETIES
- PLANTING PITS SHALL BE DUG WITH LEVEL OR CONVEY BOTTOMS. WITH THE WIDTH TWICE THE DIAMETER OF ROOT BALL. THE ROOT BALL SHALL REST ON UNDISTURBED GROUND. EACH PLANT PIT SHALL BE BACKFILLED IN LAYERS WITH THE FOLLOWING PREPARED SOIL MIXED THOROUGHLY: 1. 1 PART PEAT MOSS 2. 1 PART COMPOSTED COOM MANURE BY VOLUME 3. 3 PARTS TOPSOIL BY VOLUME 4. 1 GROUND AGRICULTURE PLANTING TABLETS (OR APPROVED EQUAL) AS FOLLOWS: A) 2 TABLETS PER 1 GALLON PLANT B) 1 TABLET PER 1 GALLON PLANT C) 1 TABLET PER 1 GALLON PLANT D) LARGER TABLETS PER 1/2" CALIPER OF TRUNK 5. FILL PREPARED SOIL AROUND BALL OF PLANT HALF-WAY AND INSERT PLANT TABLETS. COMPLETE BACKFILL AND WATER THOROUGHLY. J. ALL PLANTS SHALL BE PLANTED SO THAT THE TOP OF THE ROOT BALL, THE POINT AT WHICH THE ROOT FLARE BEGINS, IS SET AT GROUND LEVEL AND IN THE CENTER OF THE PIT. NO SOIL IS TO BE PLACED DIRECTLY ON TOP OF THE ROOT BALL. K. ALL PROPOSED TREES DIRECTLY ADJACENT TO WALKWAYS OR DRIVEWAYS SHALL BE PRUNED AND MAINTAINED TO A MINIMUM BRANCHING HEIGHT OF 7' FROM GRADE. NO PRUNING SHALL BE CONDUCTED WITHIN THE FIRST YEAR OF PLANTING. L. GROUND COVER AREAS SHALL RECEIVE A 1/2" LAYER OF HUMUS BAKED INTO THE TOP 1" OF PREPARED SOIL PRIOR TO PLANTING. ALL GROUND COVER AREAS SHALL BE WEEDED AND TREATED WITH A PEST EMERGENT CHEMICAL AS PER MANUFACTURER'S RECOMMENDATION. M. NO PLANT, EXCEPT GROUND COVERS, GRASSES OR VINES, SHALL BE PLANTED WITH TWO FEET (2') FROM EXISTING STRUCTURES AND SIDEWALKS. N. ALL PLANTING AREAS AND PLANTING PITS SHALL BE MULCHED AS SPECIFIED HEREIN TO FILL THE ENTIRE BED AREA OR SAUCER. NO MULCH IS TO TOUCH THE TRUNK OF THE TREE OR SHRUB. O. ALL PLANTING AREAS SHALL BE WATERED IMMEDIATELY UPON INSTALLATION IN ACCORDANCE WITH THE WATERING SPECIFICATIONS LISTED HEREIN. P. TRANSPLANTING (WHEN REQUIRED): A. ALL TRANSPLANTS SHALL BE DUG WITH INTACT ROOT BALLS CAPABLE OF SUSTAINING THE PLANT. (SEE SPECIFICATION 2.1) ABOVE. B. IF PLANTS ARE TO BE STOCKPILED BEFORE REPLANTING, THEY SHALL BE HEALED IN WITH MULCH OR SOIL, ADEQUATELY WATERED AND PROTECTED FROM EXTREME HEAT, SUN AND WIND. C. PLANTS SHALL NOT BE DUG FOR TRANSPLANTING BETWEEN APRIL 15 AND JUNE 30. D. UPON REPLANTING, BACKFILL SOIL SHALL BE AMENDED WITH FERTILIZER AND ROOT GROWTH HORMONE. E. TRANSPLANTS SHALL BE GUARANTEED FOR THE LENGTH OF THE GUARANTEE PERIOD SPECIFIED HEREIN. F. IF TRANSPLANTS DIE, SHRUBS AND TREES LESS THAN SIX INCHES (6") DBH SHALL BE REPLACED KIND, TREES GREATER THAN SIX INCHES (6") DBH MAY BE REQUIRED TO BE REPLACED IN ACCORDANCE WITH THE MUNICIPALITY'S TREE REPLACEMENT GUIDELINES. G. INTEREST: A. NEW PLANTINGS OR LAWN AREAS SHALL BE ADEQUATELY IRRIGATED BEGINNING IMMEDIATELY AFTER PLANTING. WATER SHALL BE APPLIED TO EACH TREE AND SHRUB IN SUCH MANNER AS NOT TO DISTURBE BACKFILL AND TO THE EXTENT THAT ALL MATERIALS PLANTING AREAS ARE THOROUGHLY WATERED. B. PLANTING SHALL CONTINUE AT LEAST UNTIL PLANTS ARE ESTABLISHED. H. SITE OWNER SHALL PROVIDE WATER IF AVAILABLE ON SITE AT THE TIME OF PLANTING. IF WATER IS NOT AVAILABLE ON SITE, CONTRACTOR SHALL SUPPLY ALL NECESSARY WATER. THE USE OF WATERING SACKS IS PROHIBITED FOR ALL NEWLY PLANTED TREES. I. IF AN IRRIGATION SYSTEM HAS BEEN INSTALLED ON THE SITE, IT SHALL BE USED TO WATER PROPOSED PLANT MATERIAL, BUT ANY FAILURE OF THE SYSTEM DOES NOT ELIMINATE THE CONTRACTOR'S RESPONSIBILITY OF MAINTAINING THE DESIRED MOISTURE LEVEL FOR VIGOROUS, HEALTHY GROWTH. J. GUARANTEE: A. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR A PERIOD OF EIGHTEEN (18) MONTHS FROM APPROVAL OF LANDSCAPE INSTALLATION BY THE APPROVING AGENCY. CONTRACTOR SHALL SUPPLY THE OWNER WITH A MAINTENANCE SCHEDULE FOR TEN PERCENT (10%) OF THE VALUE OF THE LANDSCAPE INSTALLATION WHICH WILL BE RELEASED AT THE CONCLUSION OF THE GUARANTEE PERIOD. AFTER A FINAL INSPECTION HAS BEEN COMPLETED AND APPROVED BY THE OWNER OR AUTHORIZED REPRESENTATIVE. K. ANY DEAD OR DYING PLANT MATERIAL SHALL BE REPLACED FOR THE LENGTH OF THE GUARANTEE PERIOD. REPLACEMENT OF PLANT MATERIAL SHALL BE CONDUCTED AT THE FIRST SUCCEEDING PLANTING SEASON, ANY DEBRIS SHALL BE DISPOSED OF OFF-SITE, WITHOUT EXCEPTION. L. TREES AND SHRUBS SHALL BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION AND THROUGHOUT THE 18-MONTH MAINTENANCE PERIOD AS SPECIFIED HEREIN. CULTIVATION, WEEDING, WATERING AND THE PREVENTATIVE TREATMENTS SHALL BE PERFORMED AS NECESSARY TO KEEP PLANT MATERIAL IN GOOD CONDITION AND FREE OF INSECTS AND DISEASE. M. LAWN SHALL BE MAINTAINED THROUGH WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING AND OTHER OPERATIONS SUCH AS ROLLING, REGRADING AND REPAIRING AS REQUIRED TO ESTABLISH A SMOOTH, ACCEPTABLE LAWN, FREE OF ERODED OR BARE AREAS. N. DRAINAGE: A. UPON THE COMPLETION OF ALL LANDSCAPE INSTALLATION AND BEFORE THE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL UNNEED MATERIALS, EQUIPMENT AND DEBRIS FROM THE SITE. ALL PAVED AREAS ARE TO BE CLEANED. B. THE SITE SHALL BE CLEANED AND LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER OR AUTHORIZED REPRESENTATIVE. O. SUPPLEMENTAL LANDSCAPE NOTES: 1. ALL TOPSOIL SHALL BE A MINIMUM 4" IN ALL SOIL AREAS AND IF IN TREE, SHRUB AND GROUND COVER BEDS, INCLUDING PARKING ISLANDS AND BEDS, IT SHALL BE APPROVED BY A MINIMA CONSTRUCTION REPRESENTATIVE, PRIOR TO INSTALLATION. 2. PLANTING BEHIND PERPENDICULAR PARKING IS TO BE LOCATED A MINIMUM OF 5' BEHIND THE CURB LINE. 3. ALL LANDSCAPE AND GRASS AREAS ARE TO BE HAND RAKED AND LEFT CLEAR OF ALL STONES, ROCK, CONSTRUCTION DEBRIS AND ANY UNSUITABLE MATERIALS. 4. ALL LANDSCAPE AND GRASS AREAS ARE TO BE IRRIGATED BY AUTOMATIC SPRINKLER SYSTEM (SEE IRRIGATION SPECIFICATION). 5. LANDSCAPE CONTRACTOR WILL LOCATE ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION AND PLANTING INSTALLATION. 6. ALL AREAS TO BE LANDSCAPED OR COVERED WITH STONE MUST BE TREATED WITH A PEST EMERGENT FEDERAL, STATE REGULATIONS AND THE MANUFACTURER'S INSTRUCTIONS. 7. LANDSCAPE CONTRACTOR TO SUPPLY AND INSTALL A PERIODIC WEED BARRIER (ORBIT, DUPONT OR APPROVED EQUAL) IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS WITHIN ALL LANDSCAPES INCLUDING STONE AND MULCH AREAS. 8. WEED BARRIER WILL BE COVERED BY A MINIMUM OF 4" AT ALL SITES. AT PLANT LOCATIONS, BARRIER SHOULD BE CUT IN AN "X" PATTERN SO TO ACCOMMODATE ROOT BALL AND BRANCHES AFTER PLANT HAS BEEN INSTALLED. 9. WEED BARRIER SHALL NOT BE VISIBLE IN AREAS DESIGNATED FOR STONE MULCH. WHEN STONE IS CALLED FOR, A MINIMUM 2" CURB OR BARRIERS, IT SHALL BE FEATHERED DOWN TO CURB LEVEL AND IN ACCORDANCE WITH ANSI 2001. 10. ALL PROPOSED PLANTINGS SHOULD BE INSTALLED PER STANDARDS OF THE "AMERICAN NURSERY & LANDSCAPE ASSOCIATION" AND STATE NURSERY LANDSCAPE ASSOCIATIONS WITH REGARD TO PLANTING PIT SIZE, BACKFILL MIXTURE, STAKING AND CUTTING. 11. ALL PLANTING CONTAINERS AND BASKETS SHALL BE REMOVED DURING PLANTING. ALL PLANTS SHALL BE SET IN LINES AND POSITIONED SO THAT THE TOP OF THE ROOT COLLAR MATCHES OR IS NO MORE THAN TWO (2") INCHES ABOVE FINISHED GRADE. REPLACE AMENDED BACKFILL IN 6-INCH LAYERS AND COMPACT TO ELIMINATE VOID. CONTRACTOR SHALL PROVIDE A FOUR-INCH HIGH EARTHEN WATERING SAUCER ALONG THE PERIMETER OF EACH PLANTING PIT. CONTRACTOR SHALL WATER WHEN PLANTED VEGETATION PRIOR TO PLANTING. CONTRACTOR SHALL APPLY HERBICIDES AND PEST-CONTROLLED REBATES AS REQUIRED TO ELIMINATE ANY WEED SEEDS OR PLANTS PRESENT ON ROOT BALL. 12. ALL PLANTING BEDS AND PITS EXCEPT FOR LANDSCAPE ISLANDS ADJACENT TO THE BUILDING AND DESIGNATED AREA AT THE FUEL VENT STACKS, SHALL BE MULCHED WITH DOUBLE GROUND HARDWOOD MULCH AT A MINIMUM DEPTH OF 2" LANDSCAPE ISLANDS ADJACENT TO DESIGNATED AREA AT FUEL STACKS SHALL BE MULCHED WITH 1" RIVER STONE MULCH AND RETAINED WITH AN ALUMINUM LANDSCAPE EDGING PERMANENT OR APPROVED EQUAL. FOR LANDSCAPES ADJACENT TO BUILDING, CONTACT PROJECT ENGINEER. 13. SOIL PREPARATION: A. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TESTS OR FERTILIZER MAY BE APPLIED AT THE RATE OF 100 POUNDS PER ACRE OR 20 POUNDS PER 1000 SQUARE FEET USING 10-20-10 OR EQUIVALENT. IN ADDITION, 300 POUNDS 4-12 PER ACRE OR EQUIVALENT OF SLOW RELEASE NITROGEN MAY BE USED IN LEU OF TOPDRESSING. B. FURROW LINE AND FERTILIZER INTO THE SOIL, AS PRACTICAL, TO A DEPTH OF 4 INCHES WITH A DISC SPRING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISC SPRING OPERATION SHOULD PARALLEL TO THE GENERAL CONTROLLER, CONTINUAL TILLAGES UNTIL A REASONABLE UNIFORM, FINE SEEDBED IS PREPARED, ALL BUT CLAY OR SILT SOILS AND COMPLEX SANDS SHOULD BE ROLLED TO PREP THE SEEDBED WHENEVER FEASIBLE. C. IMPACT SEEDBED, SET BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AND FIRMED AS OUTLINED BELOW. D. GRASS SEEDING MIXTURE AND APPLICATION RATE: PERCENTAGE OF APPLICATION TOTAL WEIGHT DATE SEED TYPE MIN. GERMINATION 20% 5/7 LB/1000 S.F. "REBEL" TALL FESCUE 90-95 30% "DORTMUN" PERENNIAL RYE 90-98 5% "STREETER" PECTOP 90-98

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REVISIONS

REV	DATE	COMMENT	BY
1	09/21/18	PER TOWNSHIP REVIEW COMMENTS	JHT

CALL BEFORE YOU DIG!

PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE - STOP CALL

POCS SERIAL NUMBER: 2017271117
1-800-241-1776

PROJECT No.: PC171170
DRAWN BY: JHT
DATE: 5/18/2018
SCALE: AS NOTED
CAD ID.: PC171170 LSCP-1

FINAL LAND DEVELOPMENT PLANS

FOR

PROVCO PINEGOD, CHALFONT, LLC

PROPOSED WAWA

BUTLER AVENUE (SR 4202) & COUNTY LINE ROAD
NEW BRITAIN TOWNSHIP
BUCKS COUNTY
PENNSYLVANIA

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D.T. NORTH

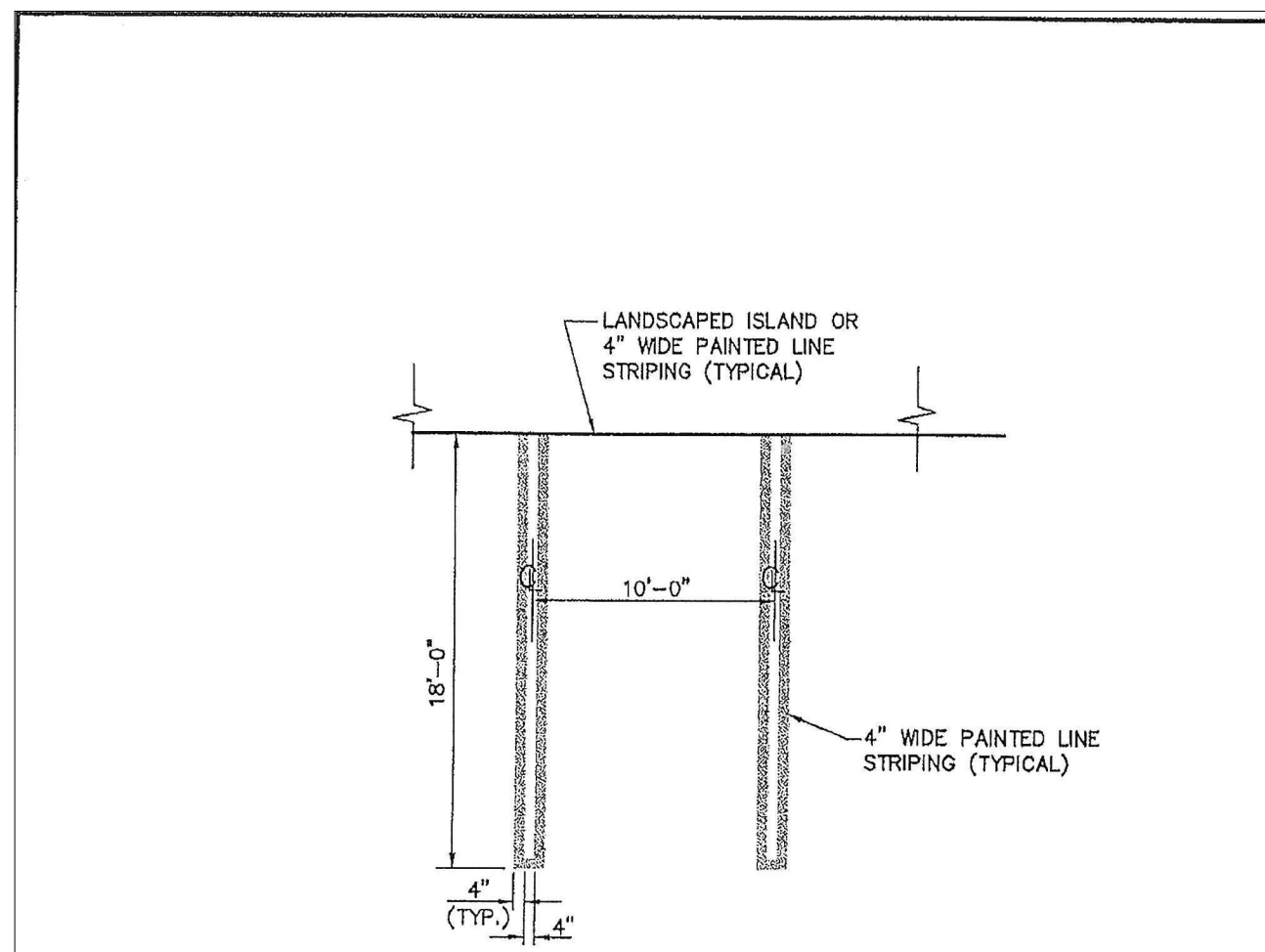
REGISTERED LANDSCAPE ARCHITECT
PENNSYLVANIA LICENSE NO. LA002279

SHEET TITLE: **LANDSCAPE DETAILS**

SHEET NUMBER: **19**
OF 37

REVISION 1 - 2018.09.21

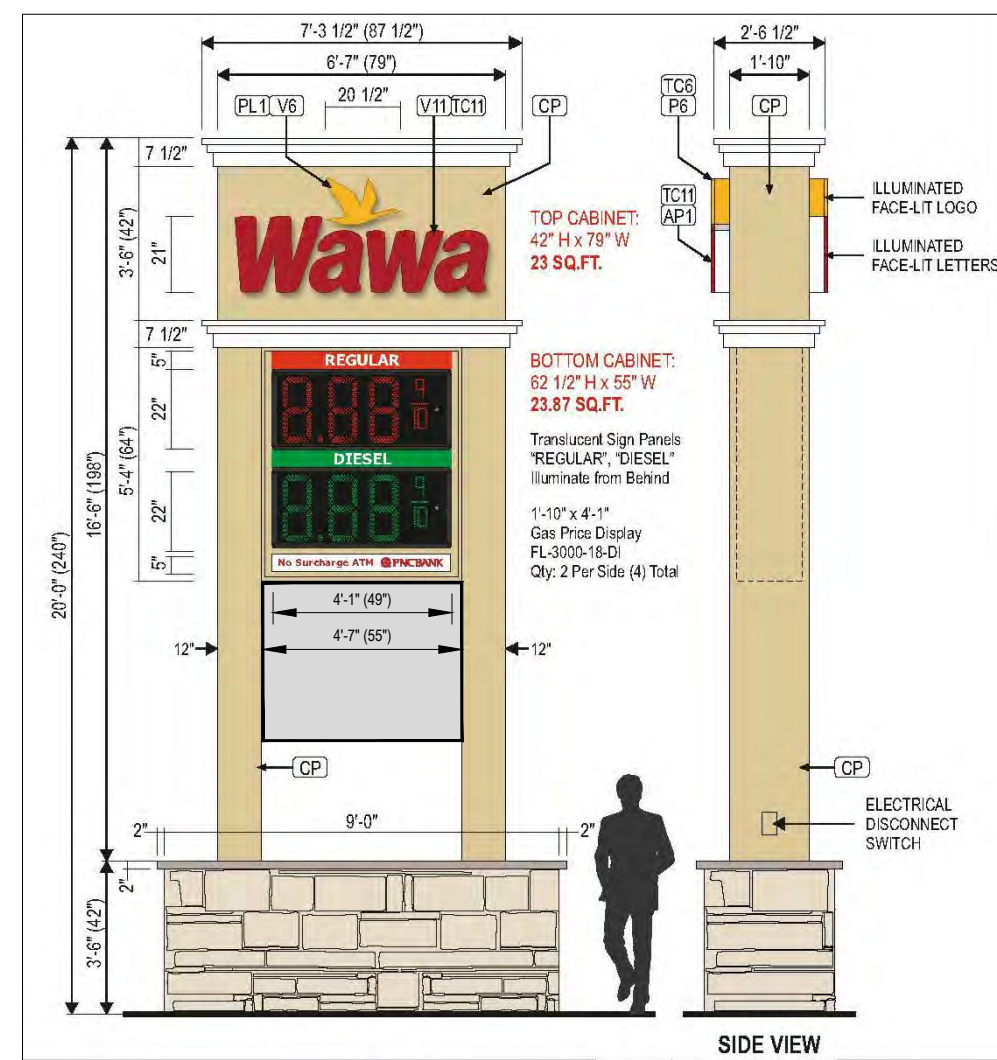
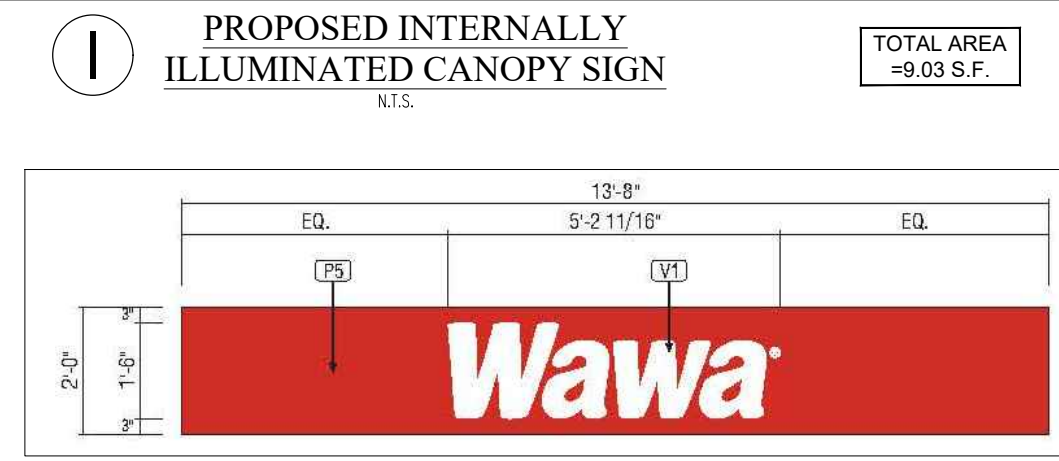
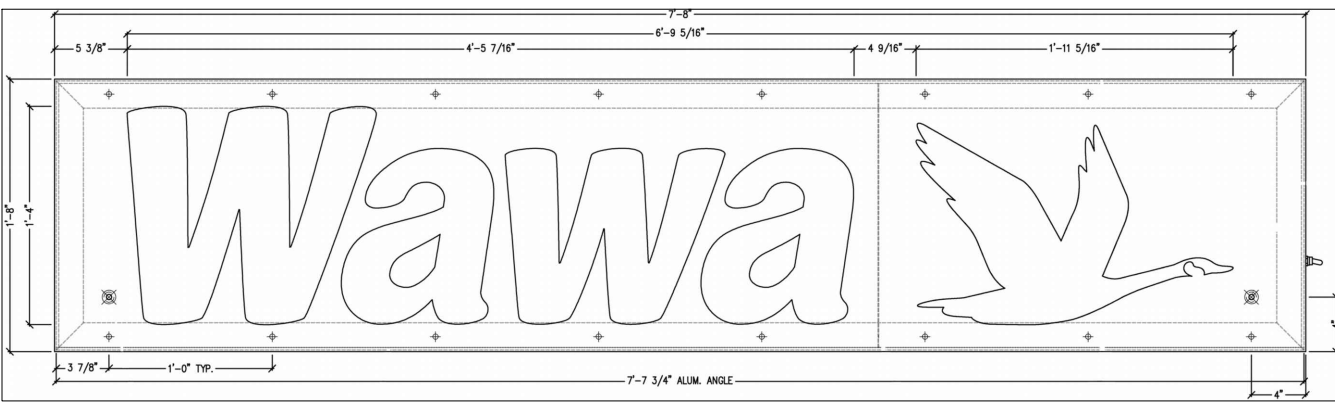
REVISIONS TO THIS DRAWING SHALL BE INDICATED BY A NUMBER IN THE REVISIONS LIST. ALL DIMENSIONS SHALL BE IN UNITS OF FEET AND INCHES UNLESS OTHERWISE NOTED.



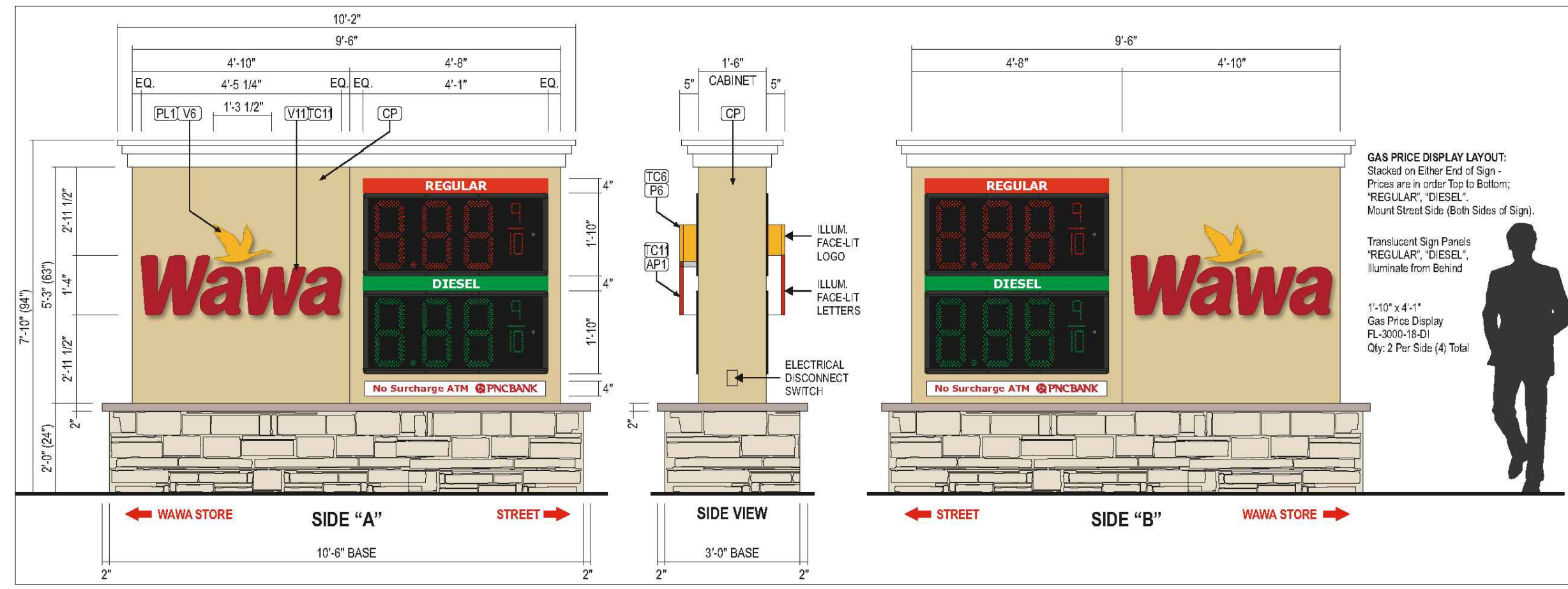
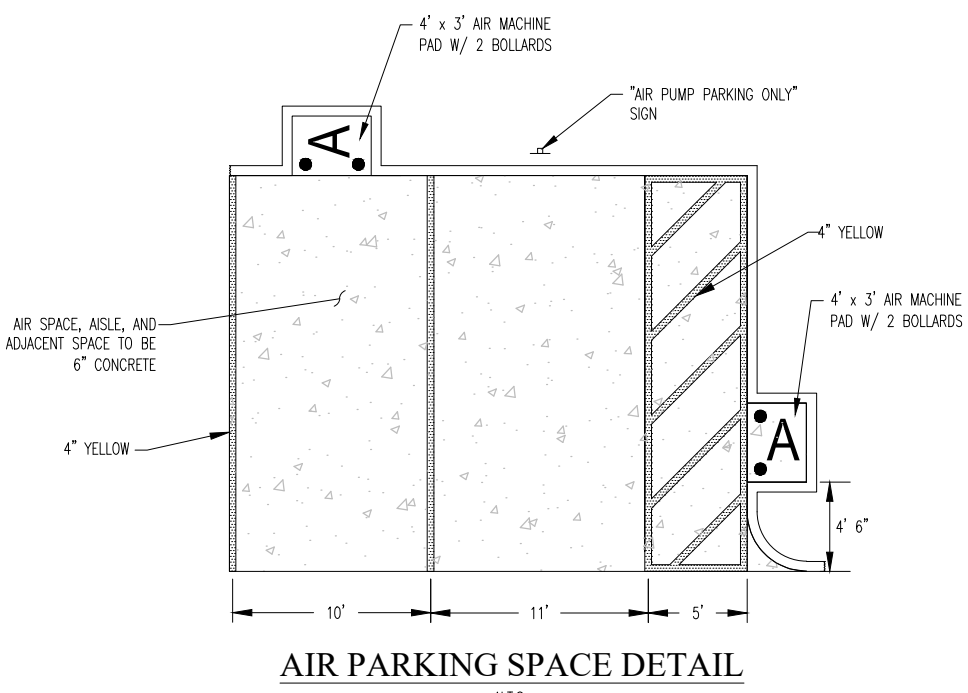
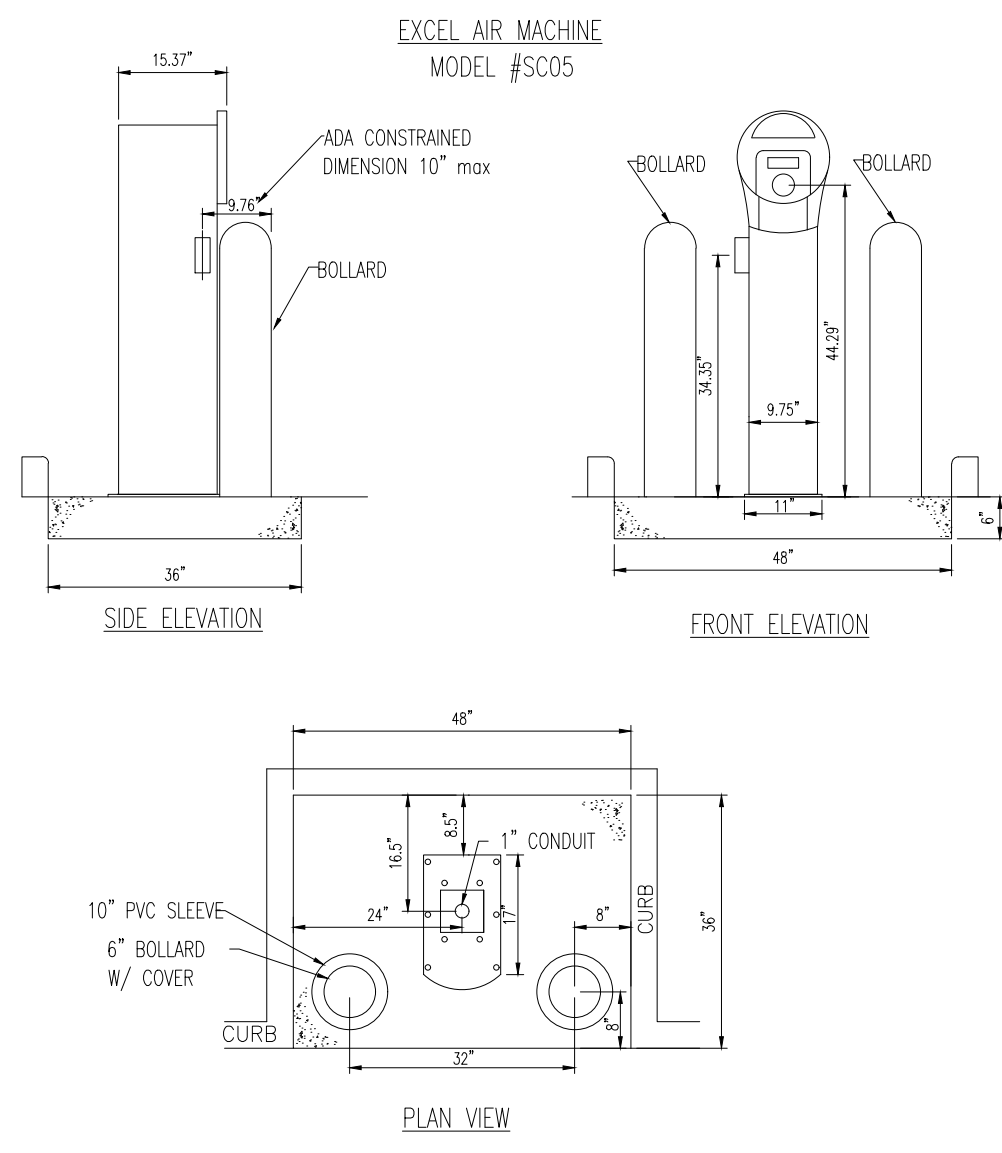
PARKING SPACE STRIPING DETAIL
NEW BRITAIN TOWNSHIP, BUCKS COUNTY, PENNSYLVANIA

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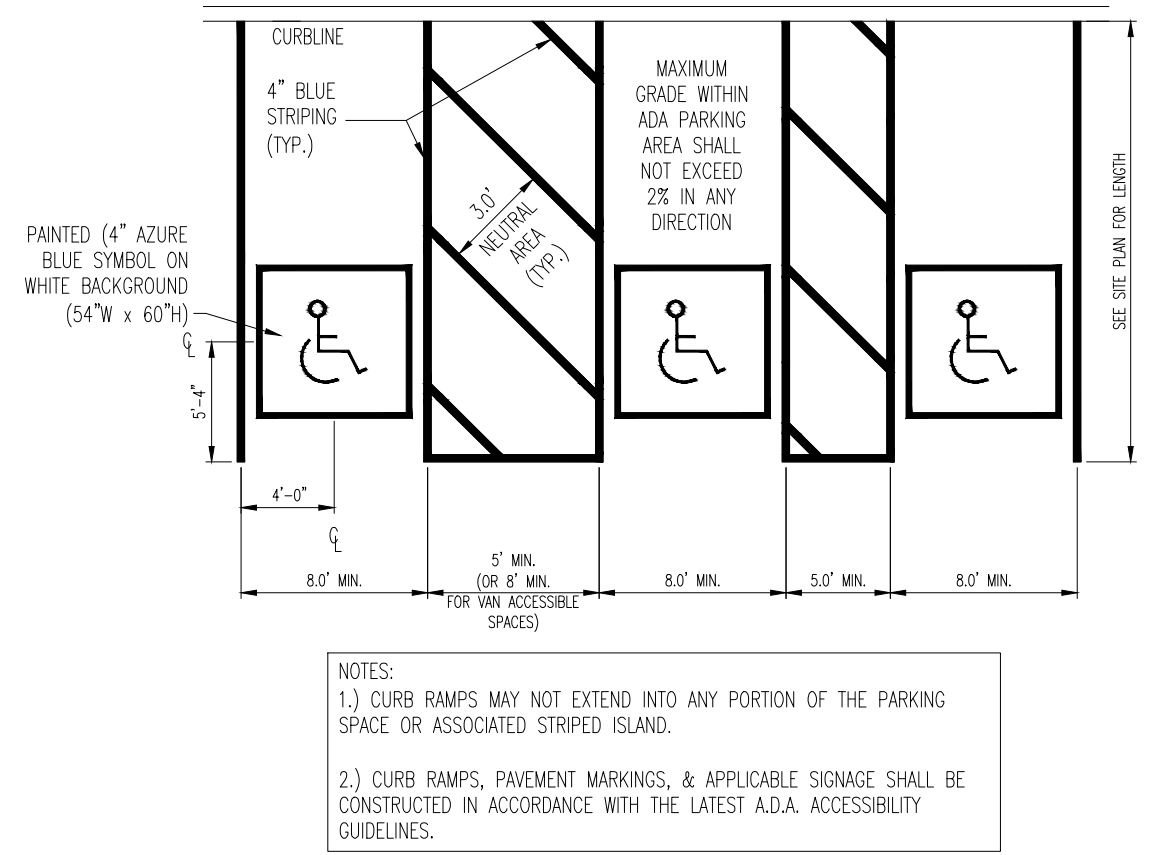
DATE: 5/22/09 | LAST REVISED: | SCALE: N.T.S. | DRAWING No: 16 OF 17



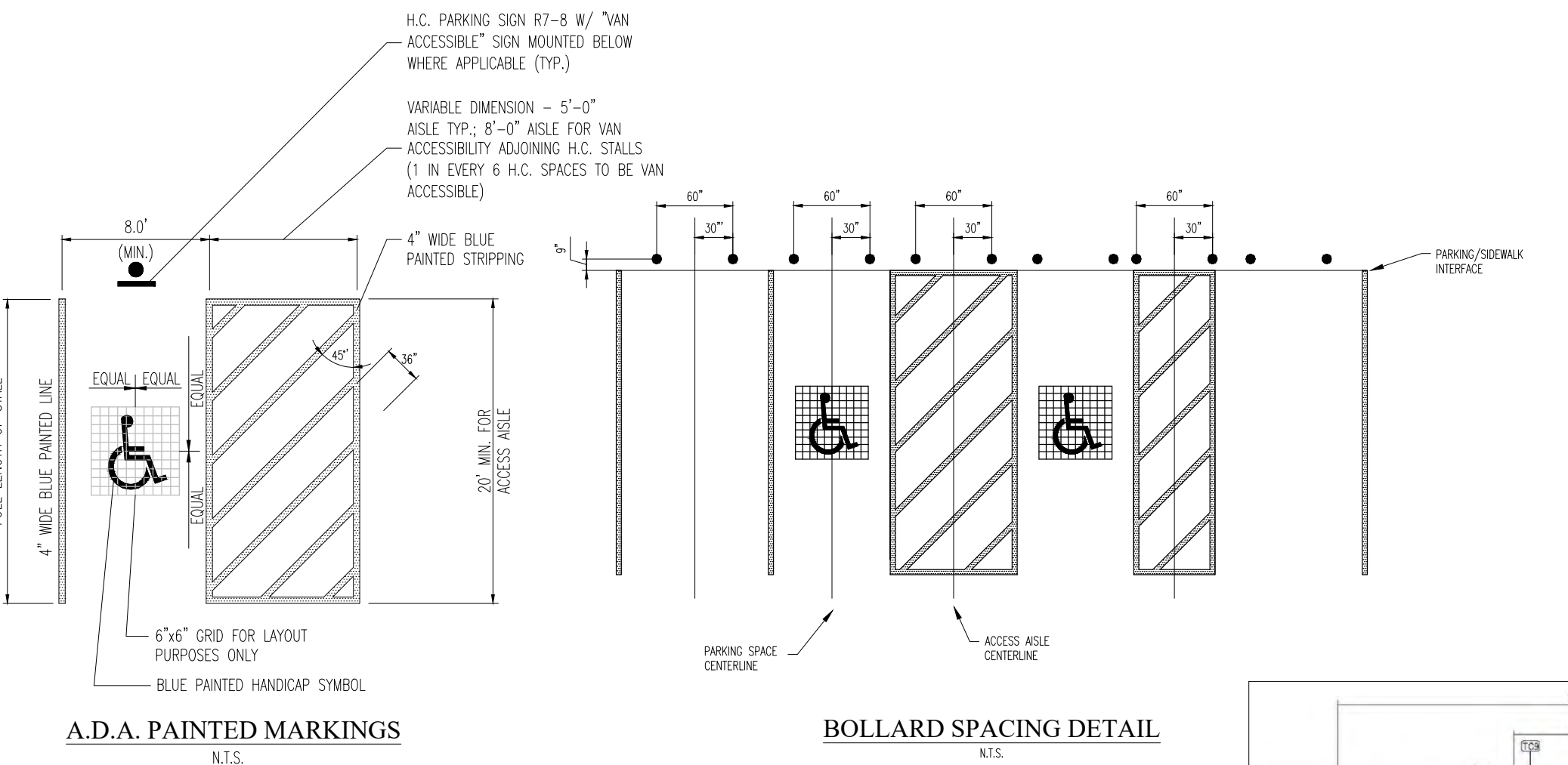
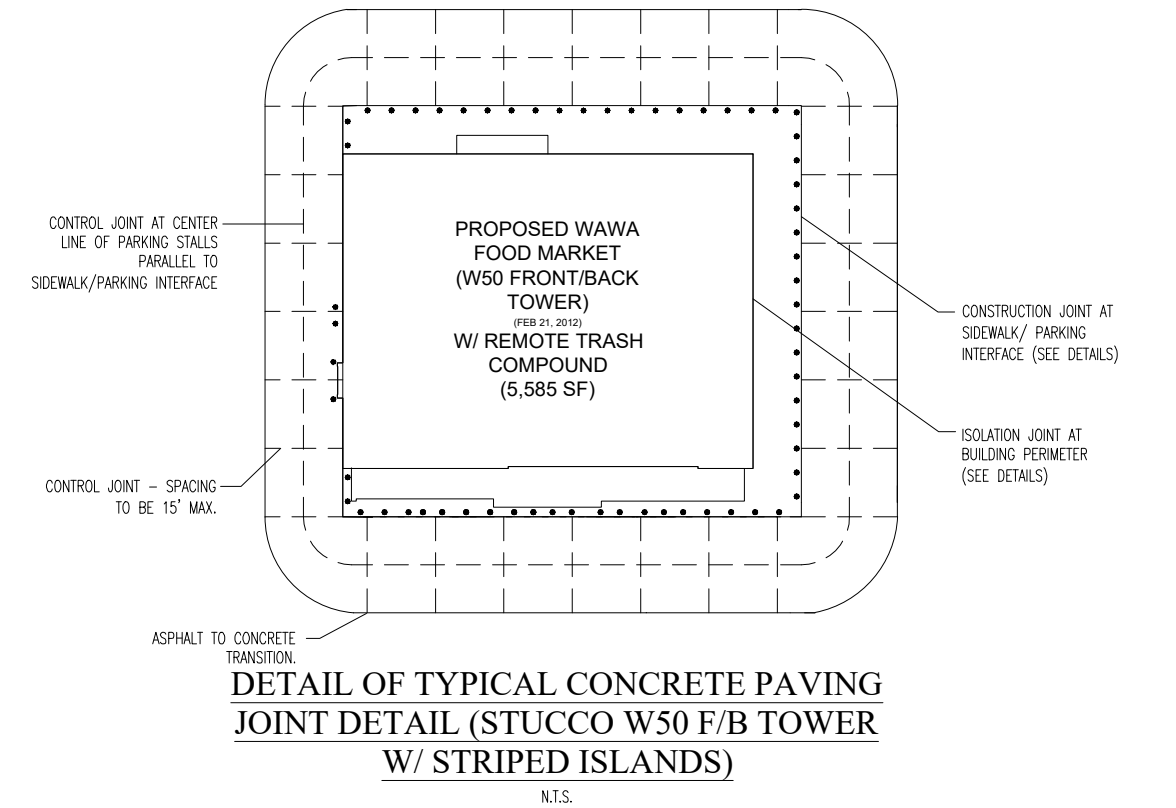
G (P-50)-2 PRODUCT 18"
PROPOSED DOUBLE FACED INTERNALLY ILLUMINATED SHARED FREESTANDING PYLON SIGN W/L.E.D PRICE CHANGER
N.T.S.



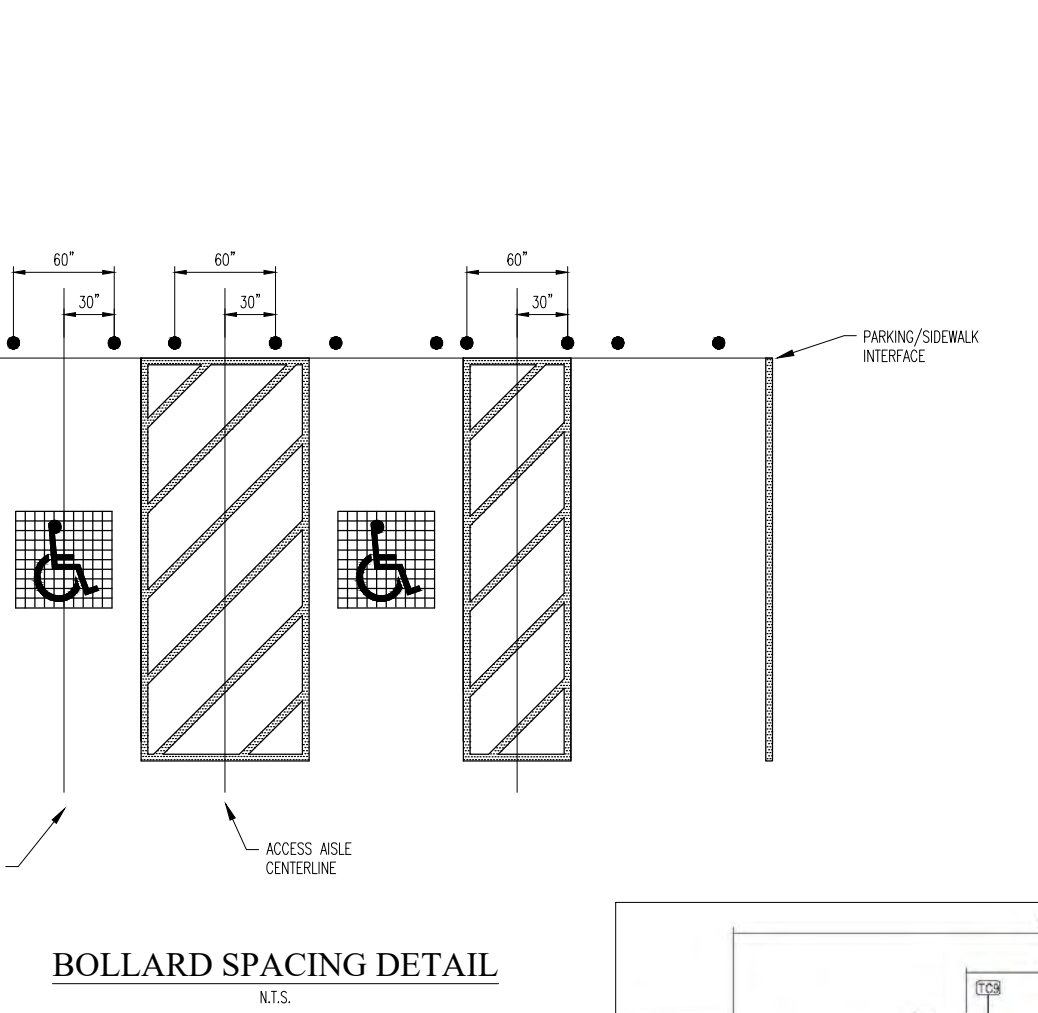
H (M-50)-2 PRODUCT 18"
PROPOSED DOUBLE FACED INTERNALLY ILLUMINATED WAWA FREESTANDING PYLON SIGN W/L.E.D PRICE CHANGER
N.T.S.



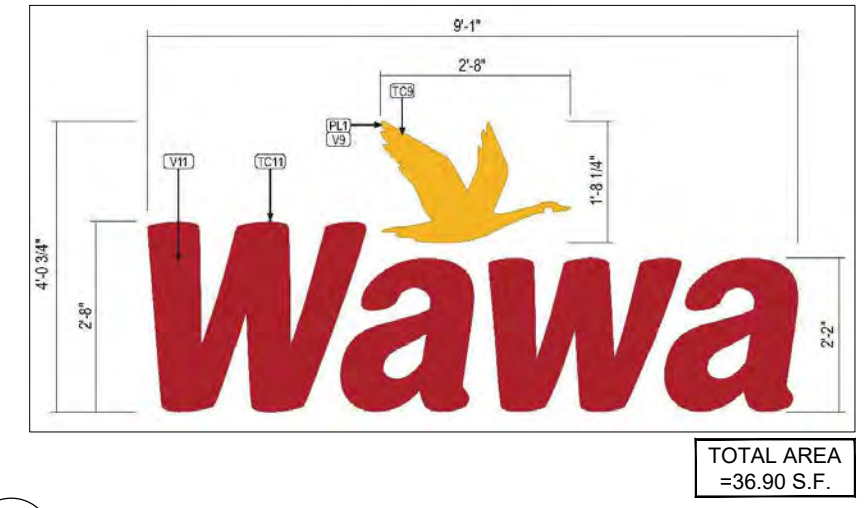
I ADA ACCESSIBLE PARKING SPACE STRIPING (3 SPACES)
SCALE: N.T.S. REV: 2016.05.31



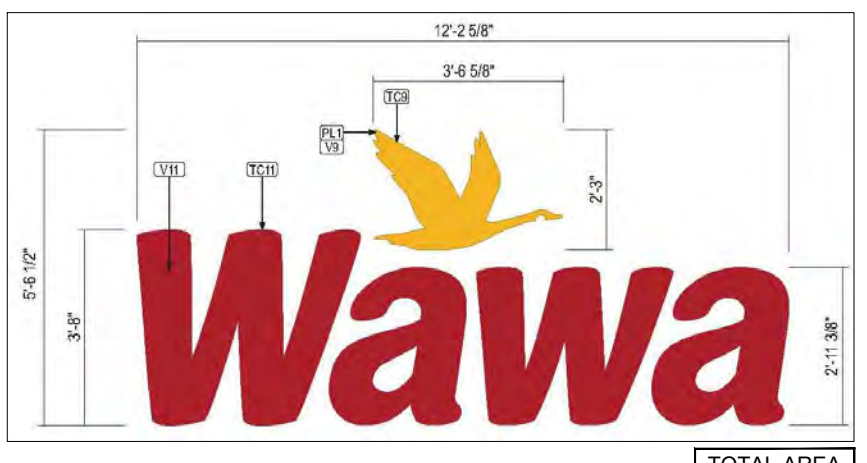
J A.D.A. PAINTED MARKINGS
N.T.S.



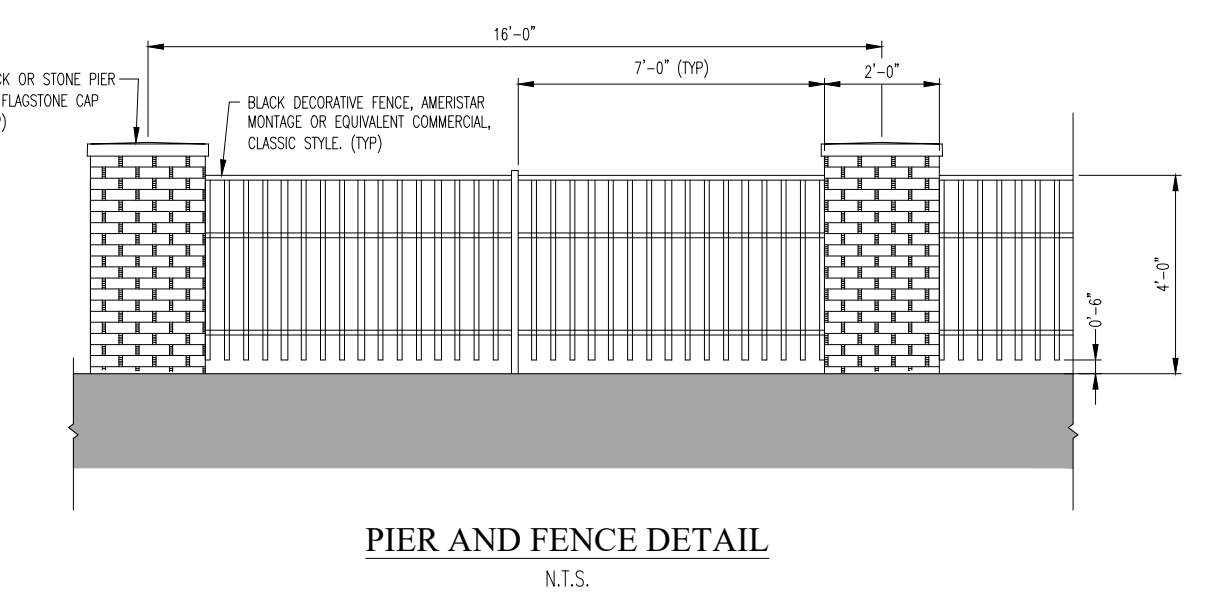
K BOLLARD SPACING DETAIL
N.T.S.



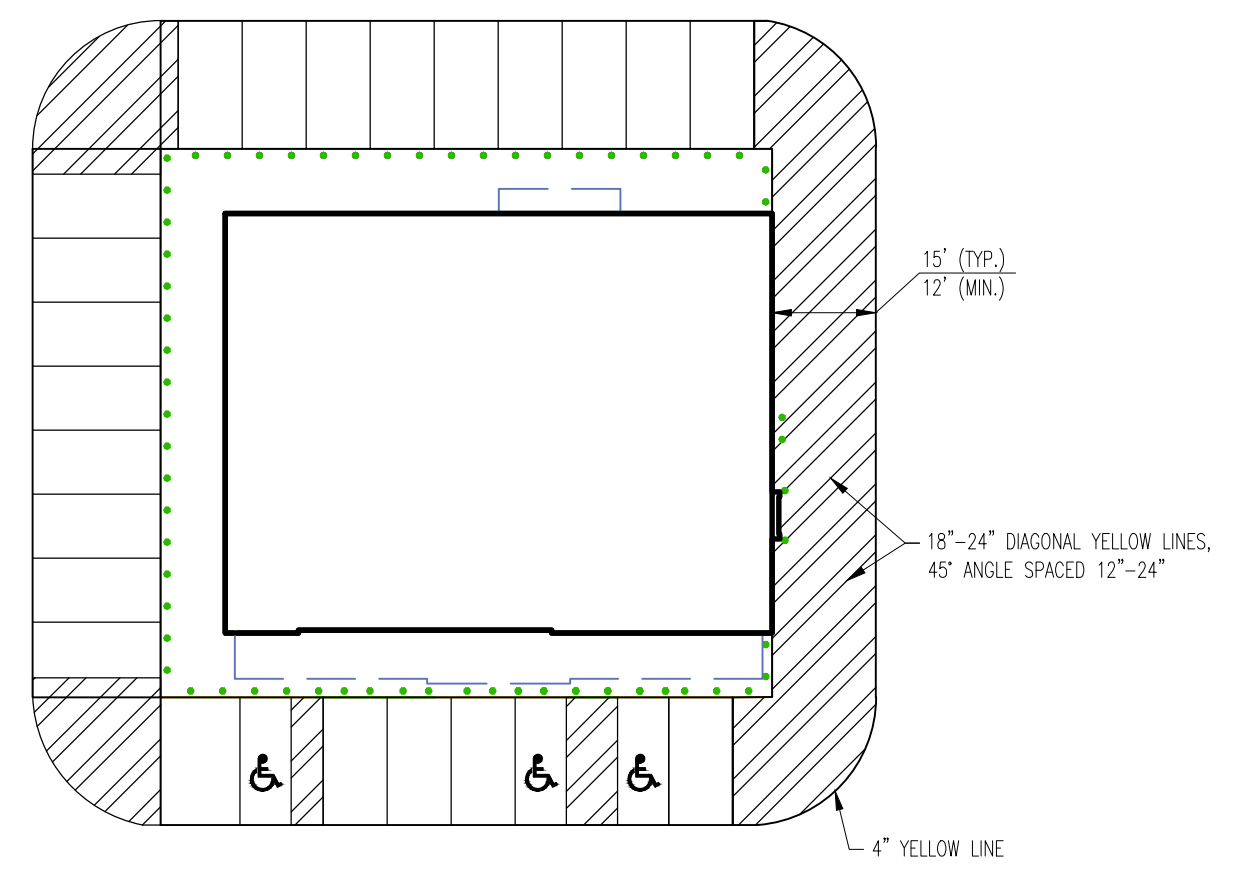
K PROPOSED 32" INDIVIDUAL ILLUMINATED CHANNEL LETTERS & LOGO
N.T.S.



L PROPOSED 44" INDIVIDUAL ILLUMINATED CHANNEL LETTERS & LOGO
N.T.S.



M PIER AND FENCE DETAIL
N.T.S.



N LOADING ZONE STRIPING DETAIL
N.T.S.



O PROPOSED 3+1 MPD
N.T.S. TOTAL AREA = 1.84 S.F.

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REV	DATE	COMMENT	BY
1	09/21/18	PER TOWNSHIP REVIEW COMMENTS	JHT

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1-800-242-1776

POCS SERIAL NUMBER
20172771117

PROJECT No.: PC171170
DRAWN BY: JHT
CHECKED BY: JRK
DATE: 5/18/2018
SCALE: AS NOTED
CAD I.D.: PC171170DETAILS-1

FINAL LAND DEVELOPMENT PLANS

FOR

PROVCO PINEGOOD, CHALFONT, LLC

PROPOSED WAWA

BUTLER AVENUE (SR 4202) & COUNTY LINE ROAD
NEW BRITAIN TOWNSHIP
BUCKS COUNTY
PENNSYLVANIA

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Phone: (215) 996-9100
Fax: (215) 996-9102
www.BohlerEngineering.com

J.R. KORCZAK

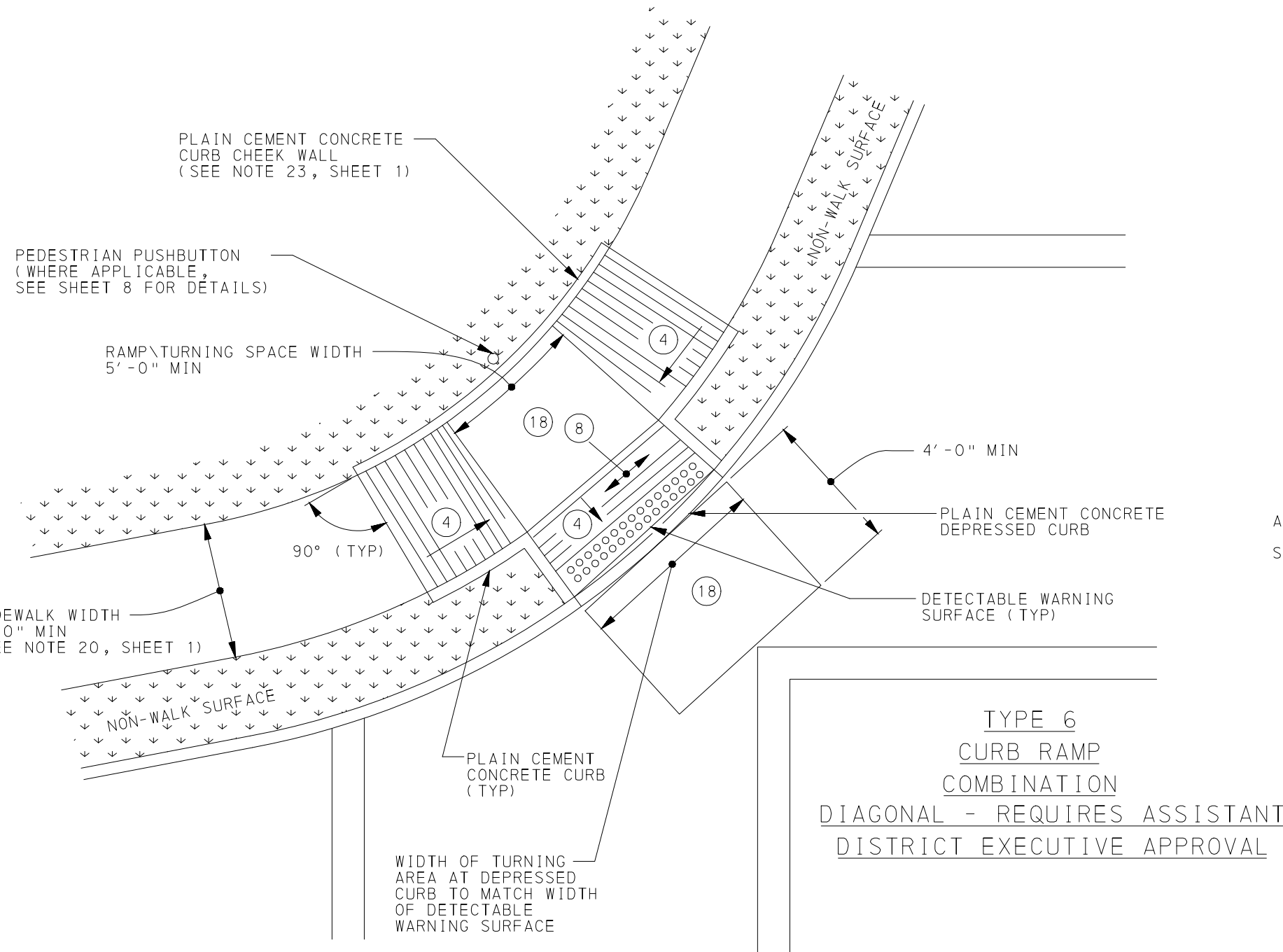
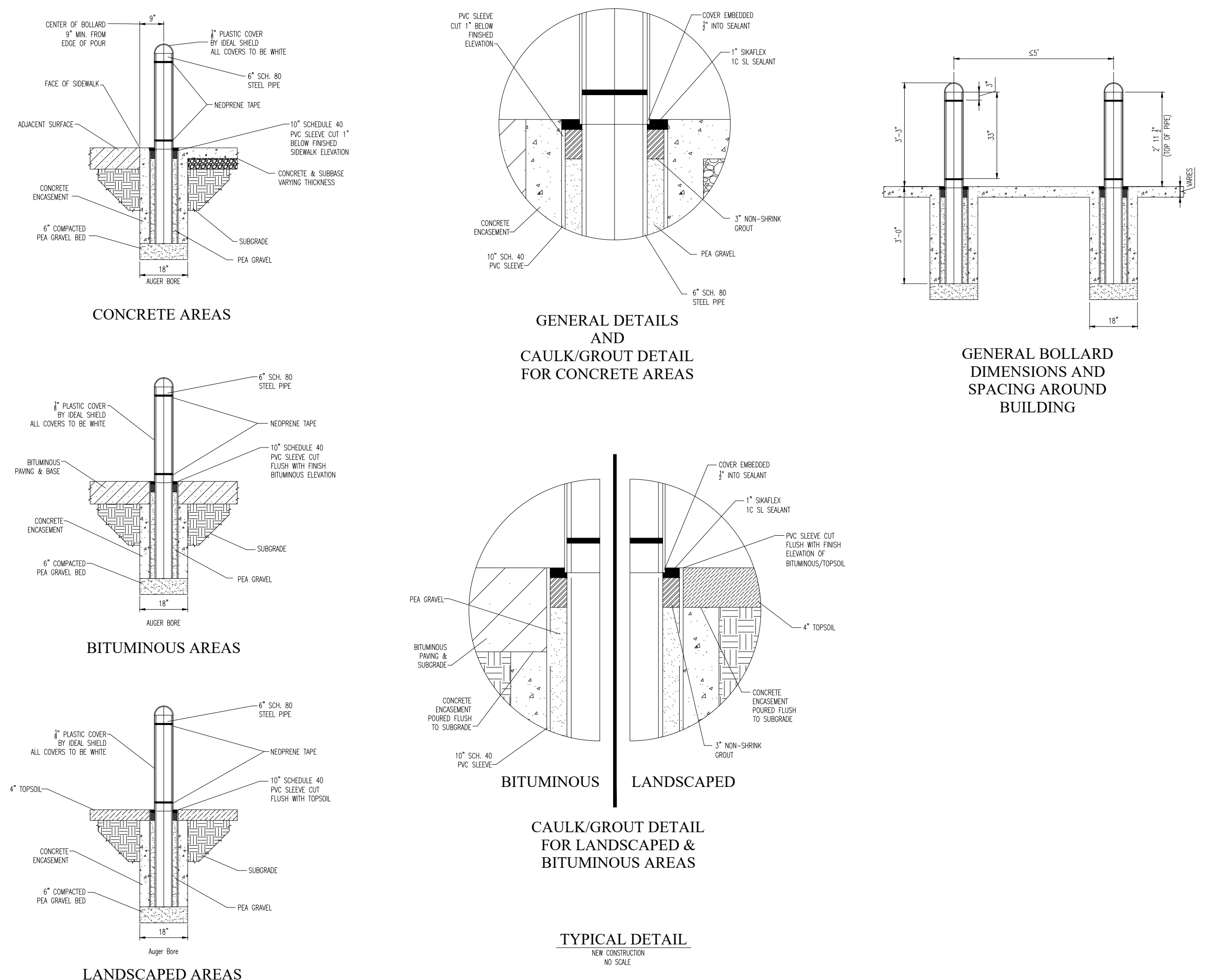
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE NO. PE074279

SHEET TITLE:
DETAILS

SHEET NUMBER:
26
OF 37

REVISION 1 - 2018.09.21

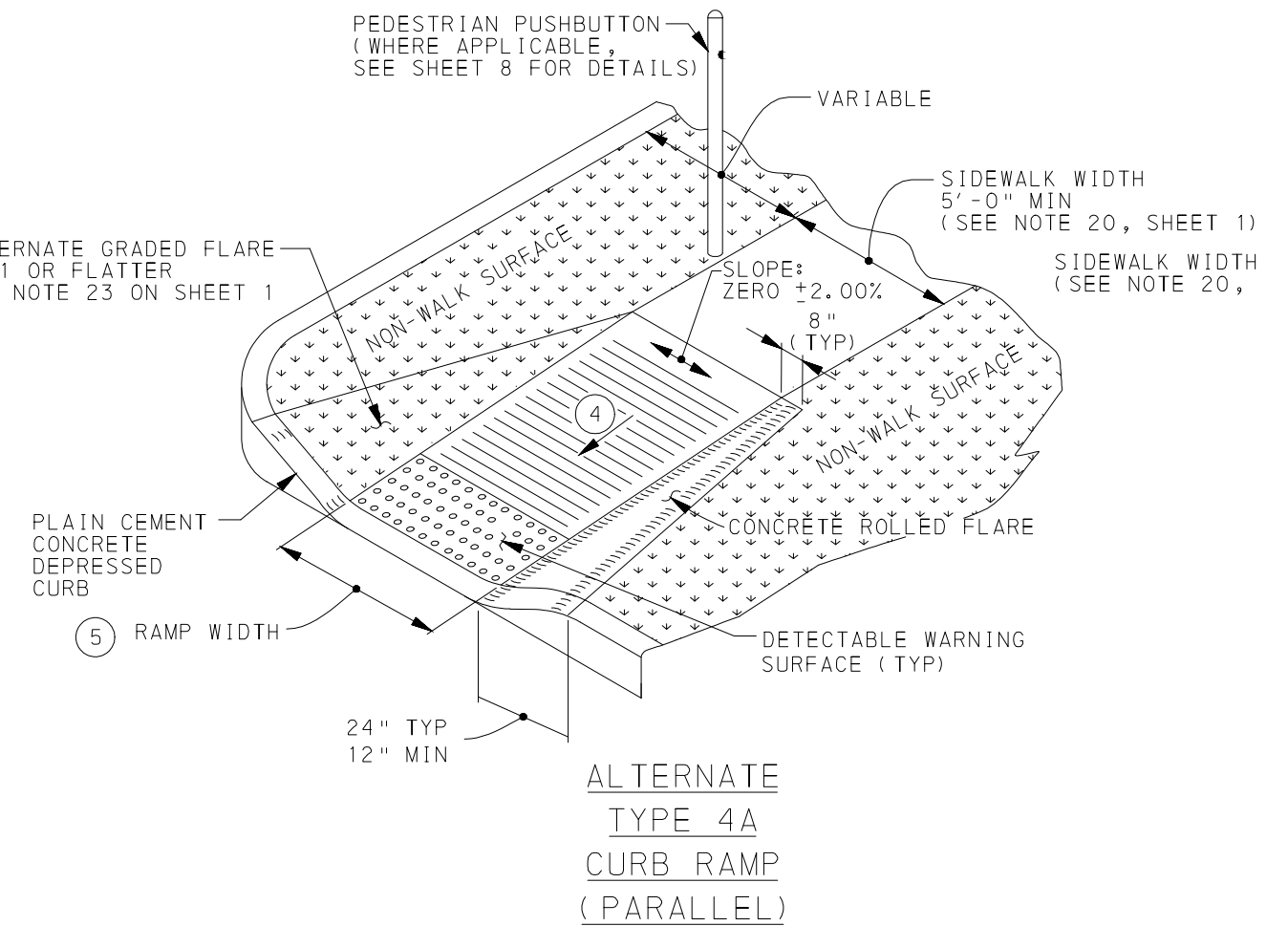
G:\PROJECTS\1709\DRIVING PLAN SETS\LAND DEVELOPMENT\REVISION 1\PC171170DETAILS-1.dwg - ABOUT 26 DETAILS



NOTES:
 1.) DETECTABLE WARNING SURFACES SHALL BE A PRE-MANUFACTURED ARMOUR-BLE 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 (FOR USE IN DOT ROADWAYS)

T S14 SCALE: N.T.S. REV: 2015.03.09



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REV	DATE	COMMENT	BY
1	09/21/18	PER TOWNSHIP REVIEW COMMENTS	JHT

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 1-800-242-1776

POCS SERIAL NUMBER
 20172771117

PROJECT No.: PC171170
 DRAWN BY: JHT
 CHECKED BY: JRK
 DATE: 5/18/2018
 SCALE: AS NOTED
 CAD I.D.: PC171170DETAILS-1

FINAL LAND DEVELOPMENT PLANS

FOR

PROVCO PINEGOOD, CHALFONT, LLC

PROPOSED WAWA

BUTLER AVENUE (SR 4202) & COUNTY LINE ROAD
 NEW BRITAIN TOWNSHIP
 BUCKS COUNTY
 PENNSYLVANIA

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J.R. KORCZAK

PROFESSIONAL ENGINEER
 PENNSYLVANIA LICENSE NO. PE074279

SHEET TITLE:
DETAILS

SHEET NUMBER:
27
 OF 37

REVISION 1 - 2018.09.21

VICTOR STANLEY, INC.
 Manufacturers of Quality Site Furnishings since 1962.

* ALL DIMENSIONS ARE IN INCHES *

AVAILABLE OPTIONS:
 POWDER COATING: 16 STANDARD COLORS, 2 OPTIONAL METALLIC COLORS, CUSTOM COLORS (INCLUDING THE RAL RANGE), CUSTOM PLATES & DECALS.
 AVAILABLE WITH STEEL PLATES IN VARIOUS SIZES AND PRESSURE SENSITIVE VINYL, OUTDOOR DECALS.

NOTES:
 1. DRAWINGS NOT TO SCALE. DO NOT SCALE DIMENSIONS.
 2. ALL FABRICATED METAL COMPONENTS ARE STEEL, UNPAINTED, ETCHED, PHOSPHORIZED, PREPARED, AND ELECTROSTATICALLY POWDER-COATED WITH T.B.I.C. POLYESTER POWDER COATING. PRODUCTS ARE FULLY CLEANED AND PREPARED AND GRATES MUST BE HOT TO FULL DRYNESS AND BUILD UP COATING. COATED PARTS ARE THEN FULLY CURED TO MEETING MANUFACTURER'S SPECIFICATIONS. THE THICKNESS OF THE RESULTING FINISH AVERAGES 8-10 MILS (200-250 MICRONS).
 3. THIS VICTOR STANLEY, INC. PRODUCT MUST BE PERMANENTLY AFFIXED TO THE GROUND. CONSULT YOUR LOCAL CODES FOR REGULATIONS.
 4. VICTOR STANLEY, INC., PLASTIC JIBER LINERS ARE MOLDED IN TOOLING DESIGNED FOR AND OWNED BY VICTOR STANLEY, INC. THEY OFFER MAXIMUM CAPACITY AND STRENGTH WITH LIGHTWEIGHT CONSTRUCTION USING CRITICAL MOLDED JOBS, INTERNAL WINDLOCKS, AND HIGH-STRENGTH MATERIALS. THIS REDUCES HANDLING DIFFICULTY AND FACILITATES EASY EMPTYING AND STORAGE WHILE AFFORDING LONG SERVICE LIFE.
 5. ANCHOR BOLT(S) NOT PROVIDED BY VICTOR STANLEY, INC.
 6. FOR HIGH SALT ABUSIVE CLIMATES, HOT DIP GALVANIZING BEFORE POWDER COATING IS AVAILABLE. SEE WRITTEN SPECIFICATIONS FOR DETAILS.
 7. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE. CONTACT MANUFACTURER FOR DETAILS.
 8. THIS PRODUCT IS SHIPPED FULLY ASSEMBLED.

FC-12 CONCOURSE SERIES
 36-GALLON LETTER RESEPTABLE
 SHOWN: OPTIONAL ONE LID

COPYRIGHT 2012 VICTOR STANLEY, INC. ALL RIGHTS RESERVED
 REV. 02/14/12 DRAWN C.S.A. 2912-051

SECURE SITE DESIGN™ L.L.C.
 (a VICTOR STANLEY, INC. affiliate)

* ALL DIMENSIONS ARE IN INCHES *

AVAILABLE OPTIONS:
 POWDER COATING: 16 AVAILABLE COLORS, 2 OPTIONAL METALLIC COLORS, CUSTOM COLORS (INCLUDING THE RAL RANGE AT AN ADDITIONAL COST) (ALL POWDER COAT FINISHES ARE DONE AT VICTOR STANLEY, INC. (VSI) TO MATCH THE VSI PRODUCT LINE) OTHER FINISHES: GALVANIZED (SPECIAL QUOTE NEEDED)

NOTES:
 1. DRAWINGS NOT TO SCALE. DO NOT SCALE DIMENSIONS.
 2. ALL FABRICATED METAL COMPONENTS ARE STEEL, UNPAINTED, ETCHED, PHOSPHORIZED, PREPARED, AND ELECTROSTATICALLY POWDER-COATED WITH T.B.I.C. POLYESTER POWDER COATING. PRODUCTS ARE FULLY CLEANED AND PREPARED, PREPARED AND COATED WHILE HOT TO FULL DRYNESS AND BUILT UP COATING. COATED PARTS ARE THEN FULLY CURED TO MEETING MANUFACTURER'S SPECIFICATIONS. THE THICKNESS OF THE RESULTING FINISH AVERAGES 8-10 MILS (200-250 MICRONS).
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 5. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE. CONTACT MANUFACTURER FOR DETAILS.
 6. THIS PRODUCT IS SHIPPED FULLY ASSEMBLED.

BRHS-101 CYCLE SENTRY™ SECURS
 BIKE RACK
 SHOWN: STANDARD IN-GROUND MOUNT

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 REV. 01/13 DRAWN C.S.A. 2913-075

CITY SITES™ COLLECTION

Strongly symmetrical, curved castings that enhance the site and delight the eye.

Victor Stanley castings are GENUINE DUCTILE-IRON and carry our 10-YEAR WARRANTY against breakage.



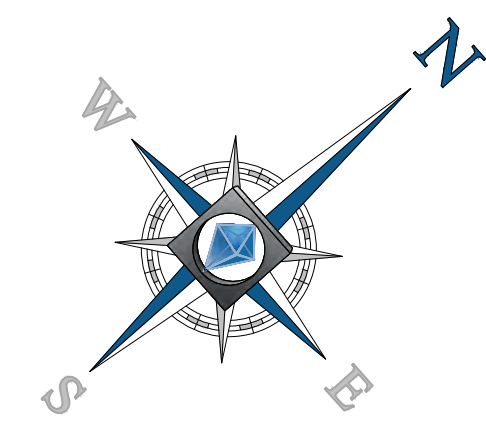
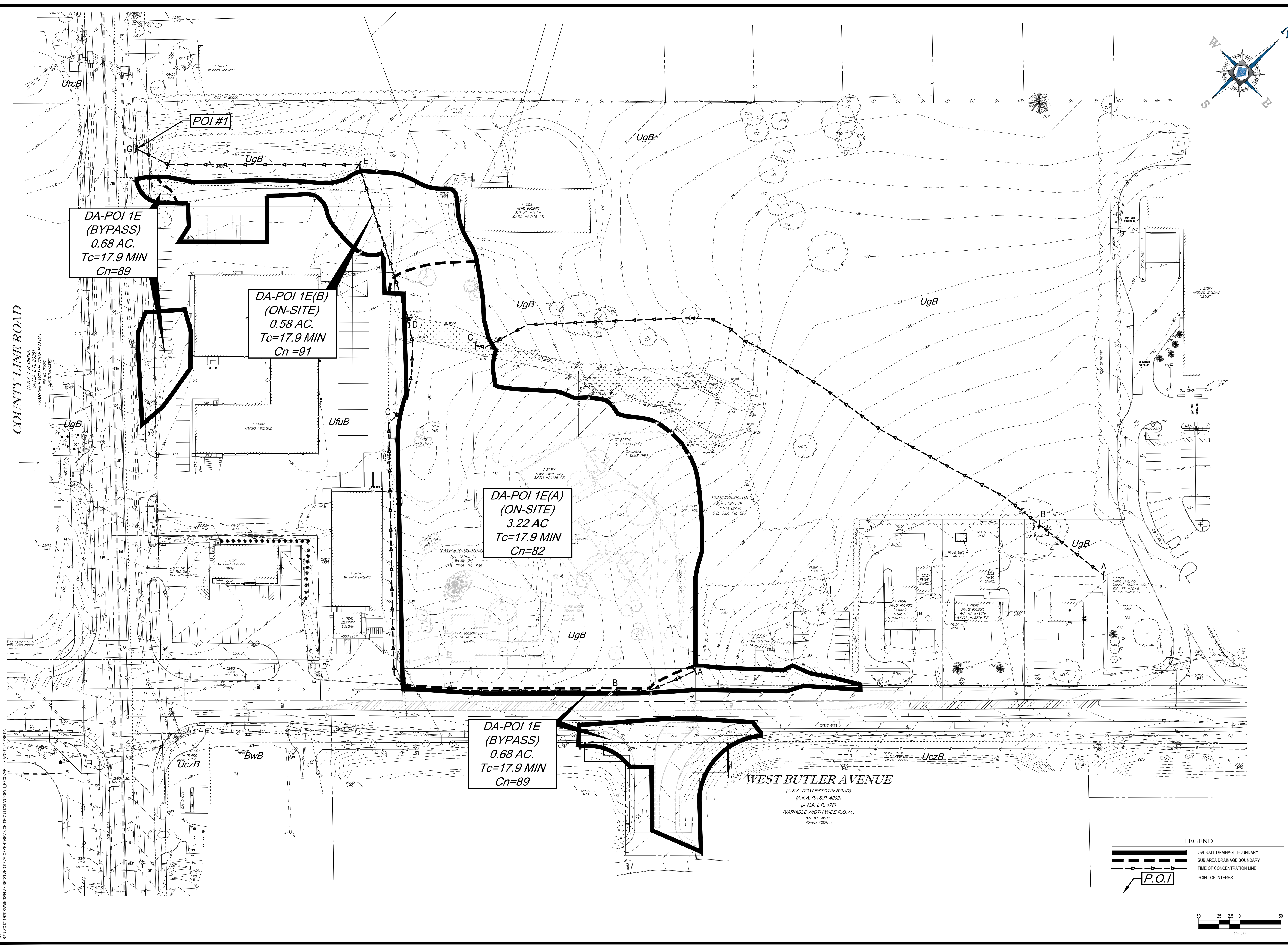
CR-16 BENCH
 CR-14 BACKLESS BENCH
 4, 6 or 8 ft (1.2, 1.8 or 2.4 m) length. Steel scrolls. Surface mount.
 OPTION: Intermediate armrests.

CR-12 BENCH
 4, 6 or 8 ft (1.2, 1.8 or 2.4 m) length. Surface mount.
 OPTIONS: Wood slats. Recycled plastic slats for 4 and 6 ft (1.2 and 1.8 m) length. Intermediate armrests (both on).

CR-14 BENCH
 4, 6 or 8 ft (1.2, 1.8 or 2.4 m) length. Horizontal steel slats. Surface mount.
 OPTION: Intermediate armrests.

All City Sites™ castings are available with choice of wood slats, 2nd Site Systems™ recycled slats, steel scrolls, horizontal steel slats and horizontal steel rods.

C:\P\171170\DRAWINGS\PLAN SETS\LAND DEVELOPMENT\REVISION 1\PC171170DETAILS-1.dwg - 11/14/2018 2:27:00 PM



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 MINNEAPOLIS, MN
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 PHOENIX, AZ
 RICHMOND, VA
 TAMPA, FL
 WASHINGTON, DC

REVISIONS			
REV	DATE	COMMENT	BY
1	09/21/18	PER TOWNSHIP REVIEW COMMENTS	JHT

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PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE - STOP-CALL

PA1
 1-800-242-1776

POCS SERIAL NUMBER
 20172771117

PROJECT No.: PC171170
 DRAWN BY: JHT
 CHECKED BY: JRK
 DATE: 5/18/2018
 SCALE: 1" = 50'
 CAD I.D.: PC171170LANDDEV-1 RECON

FINAL LAND DEVELOPMENT PLANS

FOR

PROVCO PINEGOOD, CHALFONT, LLC

PROPOSED WAWA

BUTLER AVENUE (SR 4202) & COUNTY LINE ROAD
 NEW BRITAIN TOWNSHIP
 BUCKS COUNTY
 PENNSYLVANIA

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J.R. KORCZAK

PROFESSIONAL ENGINEER
 PENNSYLVANIA LICENSE No. PE074279

SHEET TITLE:
PRE-DEVELOPMENT DRAINAGE AREA PLAN

SHEET NUMBER:
31
 OF 37

REVISION 1 - 2018.09.21

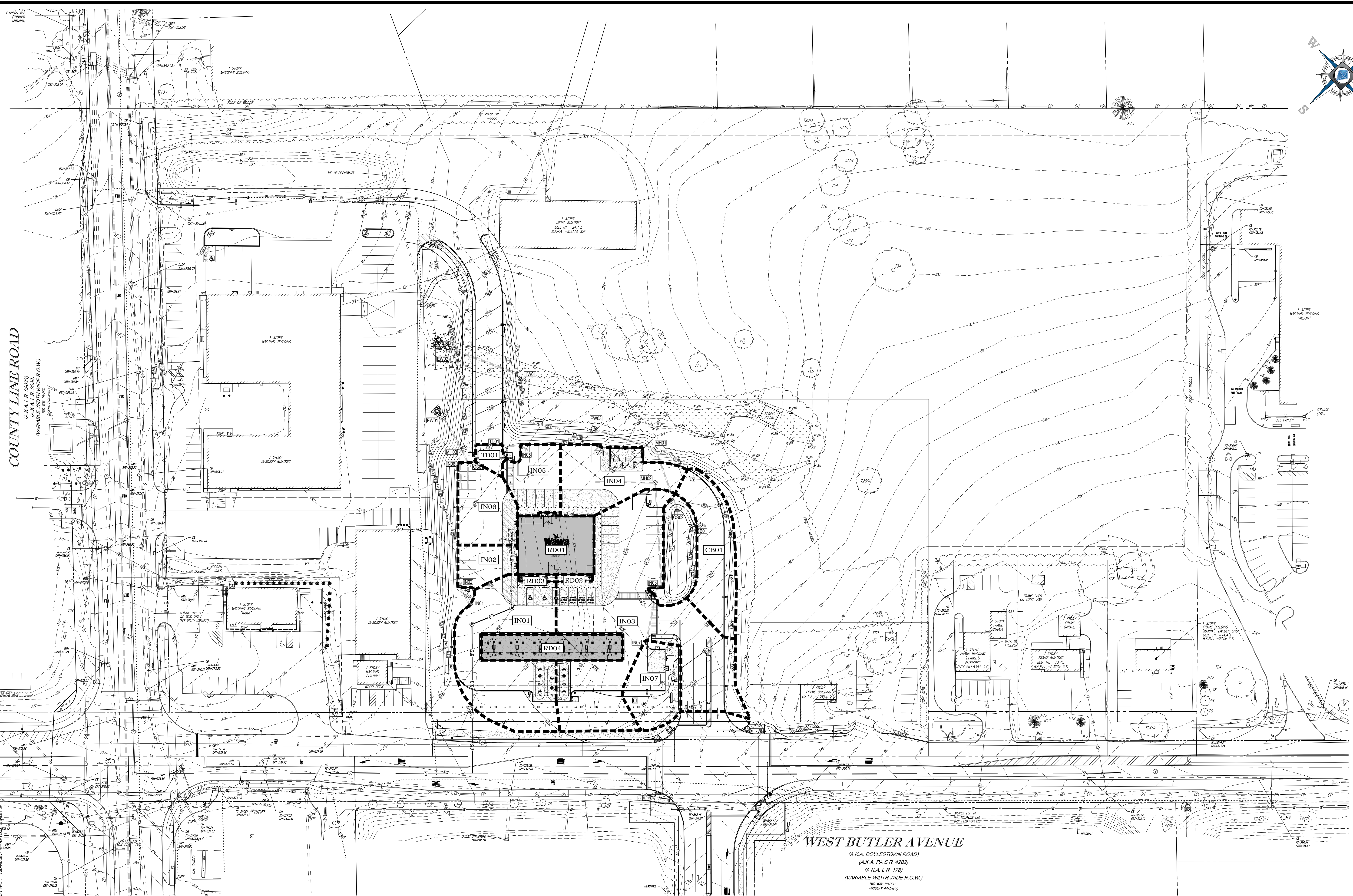
LEGEND

--- OVERALL DRAINAGE BOUNDARY
 --- SUB AREA DRAINAGE BOUNDARY
 --- TIME OF CONCENTRATION LINE
 P.O.I. POINT OF INTEREST

0 12.5 25 50
 1" = 50'

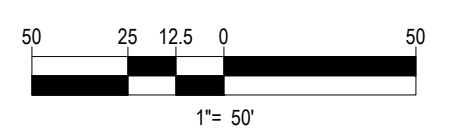
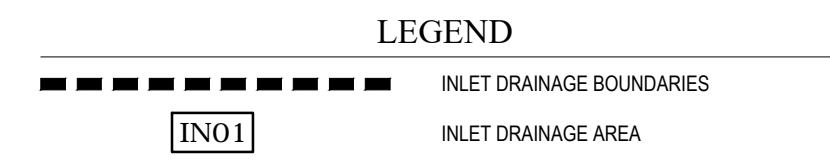
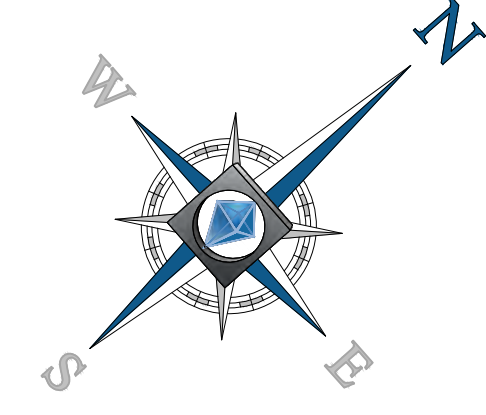
COUNTY LINE ROAD
 (A.K.A. L.R. 09033)
 (VARIABLE WIDTH WIDE R.O.W.)

WEST BUTLER AVENUE
 (A.K.A. DOYLESTOWN ROAD)
 (A.K.A. PA S.R. 4202)
 (A.K.A. L.R. 178)
 (VARIABLE WIDTH WIDE R.O.W.)



COUNTY LINE ROAD
(A.K.A. L.R. 09033)
(VARIABLE WIDTH WIDE R.O.W.)

WEST BUTLER AVENUE
(A.K.A. DOYLESTOWN ROAD)
(A.K.A. PA S.R. 4202)
(A.K.A. L.R. 178)
(VARIABLE WIDTH WIDE R.O.W.)
(NO. 847 TRAVIC)
(SIGNAL ROADWAY)



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REV	DATE	COMMENT	BY
1	09/21/18	PER TOWNSHIP REVIEW COMMENTS	JHT

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1-800-242-1776

POCS SERIAL NUMBER
20172771117

PROJECT No.: PC171170
DRAWN BY: JHT
CHECKED BY: JRK
DATE: 5/18/2018
SCALE: 1" = 50'
CAD I.D.: PC171170LANDDEV-1

PROJECT:

FINAL LAND DEVELOPMENT PLANS

FOR

PROVCO PINEGOOD, CHALFONT, LLC

PROPOSED WAWA

BUTLER AVENUE (SR 4202) & COUNTY LINE ROAD
NEW BRITAIN TOWNSHIP
BUCKS COUNTY
PENNSYLVANIA

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J.R. KORCZAK

PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. PE074279

SHEET TITLE:

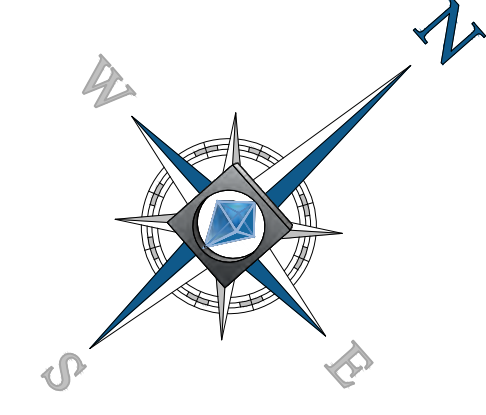
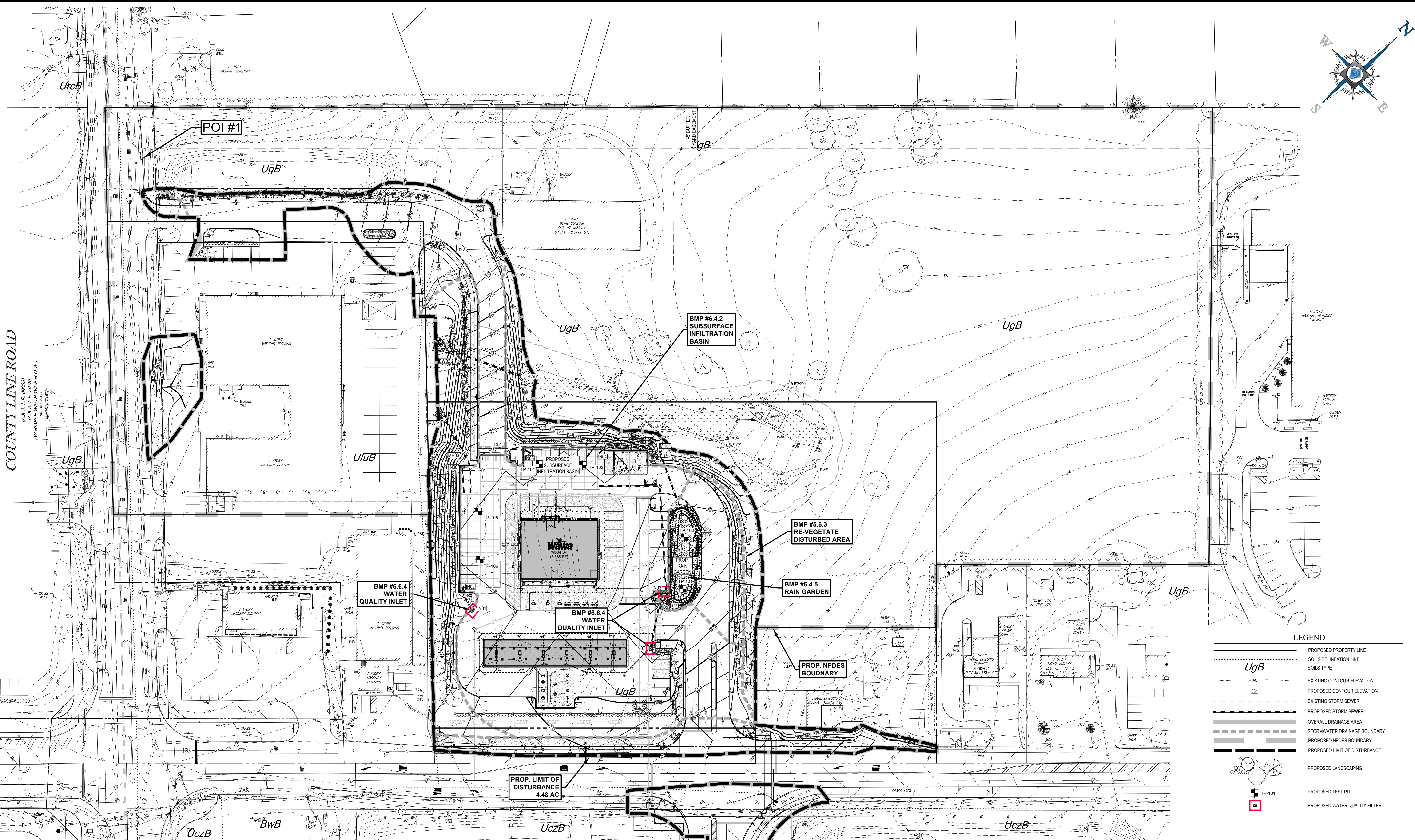
INLET DRAINAGE AREA PLAN

SHEET NUMBER:

33
OF 37

REVISION 1 - 2018.09.21

COUNTY LINE ROAD
(A.K.A. L.R. 08033)
(VARIABLE WIDTH WIDE R.O.W.)



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 POCS SERIAL NUMBER
 2017277117

PROJECT No.: PC171170
 DRAWN BY: JHT
 CHECKED BY: JRK
 DATE: 5/18/2018
 SCALE: 1" = 50'
 CAD I.D.: PC171170LANDDEV-1

FINAL LAND DEVELOPMENT PLANS
 FOR
PROVCO PINEGOOD, CHALFONT, LLC
 PROPOSED WAWA
 BUTLER AVENUE (SR 4202) & COUNTY LINE ROAD
 NEW BRITAIN TOWNSHIP
 BUCKS COUNTY
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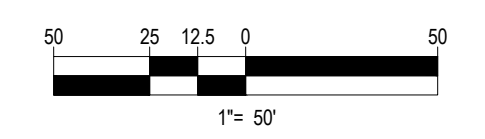
SHEET TITLE: **POST CONSTRUCTION STORMWATER MANAGEMENT PLAN**
 (RECORD PLAN 7 OF 10)
 SHEET NUMBER:
34
 OF 37
 REVISION 1 - 2018.09.21

LEGEND

- PROPOSED PROPERTY LINE
- SOILS DELINEATION LINE
- SOILS TYPE
- EXISTING CONTOUR ELEVATION
- PROPOSED CONTOUR ELEVATION
- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- OVERALL DRAINAGE AREA
- STORMWATER DRAINAGE BOUNDARY
- PROPOSED NPDES BOUNDARY
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED LANDSCAPING
- PROPOSED TEST PIT
- PROPOSED WATER QUALITY FILTER

SOIL DESCRIPTIONS

- UgB - URBAN LAND - 0 TO 8 PERCENT SLOPES
- UgB - URBAN LAND - ABBOTTSTOWN COMPLEX, 0 TO 8 PERCENT SLOPES



TEST PIT NUMBER	EXISTING GROUND ELEVATION (FT.)	WEATHERED ROCK		BEDROCK		GROUNDWATER		INFILTRATION TESTING		RATE (IN/HR)	DESIGN RATE (IN/HR)
		ELEVATION (FT.)	DEPTH (FT.)	ELEVATION (FT.)	DEPTH (FT.)	ELEVATION (FT.)	DEPTH (FT.)	ELEVATION (FT.)	DEPTH (FT.)		
TP-101	380.80	377.80	3.00	376.80	4.00	-	-	379.80	1.00	(DR-101A) 1.50 (DR-101B) 1.13	0.66
TP-102	378.70	374.20	4.50	370.70	8.00	373.70	5.00	376.20	2.50	(DR-102A) 0.50 (DR-102B) 0.63	0.28
TP-103	372.80	368.50	4.30	366.60	6.20	367.00	5.80	370.50	2.30	(DR-103A) 0.19 (DR-103B) 0.13	0.08
TP-104	371.00	367.00	4.00	-	-	366.20	4.80	369.00	2.00	(DR-104A) 0.19 (DR-104B) 0.13	0.08
TP-105	367.80	364.60	3.00	362.50	5.30	365.00	2.80	367.00	0.80	(DR-105A) 0.63 (DR-105B) 0.31	0.24
TP-106	369.00	367.20	1.80	365.70	3.30	367.20	1.80	-	-	-	-

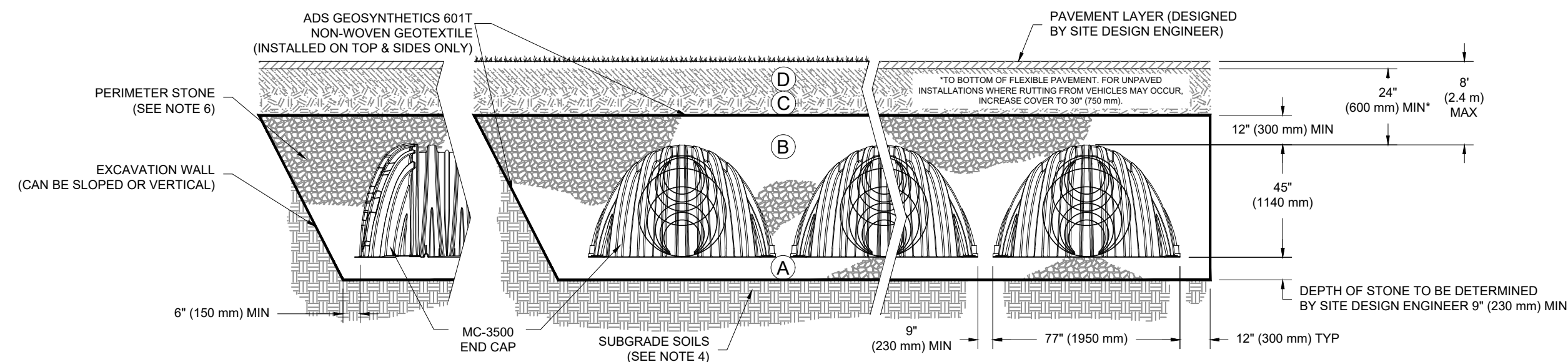
WEST BUTLER AVENUE
 (A.K.A. DOYLESTOWN ROAD)
 (A.K.A. PA S.R. 4202)
 (A.K.A. L.R. 178)
 (VARIABLE WIDTH WIDE R.O.W.)
 (NO. 80' TRAVEL)
 (SIGNAL ROADWAY)

BOHLER ENGINEERING, INC. 1600 MANOR DRIVE, SUITE 200, CHALFONT, PA 18914
 PROJECT: 1600 MANOR DRIVE, SUITE 200, CHALFONT, PA 18914
 SHEET: 34 OF 37
 DATE: 09/21/18
 DRAWN BY: JHT
 CHECKED BY: JRK
 SCALE: 1" = 50'
 PROJECT NO.: PC171170

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145 ¹ A-1, A-2.4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 ¹ 3, 4	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 ¹ 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. **

- PLEASE NOTE:
 1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE."
 2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGN, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



*FOR COVER DEPTHS GREATER THAN 8.0' (2.4 m) PLEASE CONTACT STORMTECH

NOTES:

- MC-3500 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

STANDARD CROSS SECTION

DATE: 11/18/14 DRAWN: JLM CHECKED: JLM

PROJECT #:

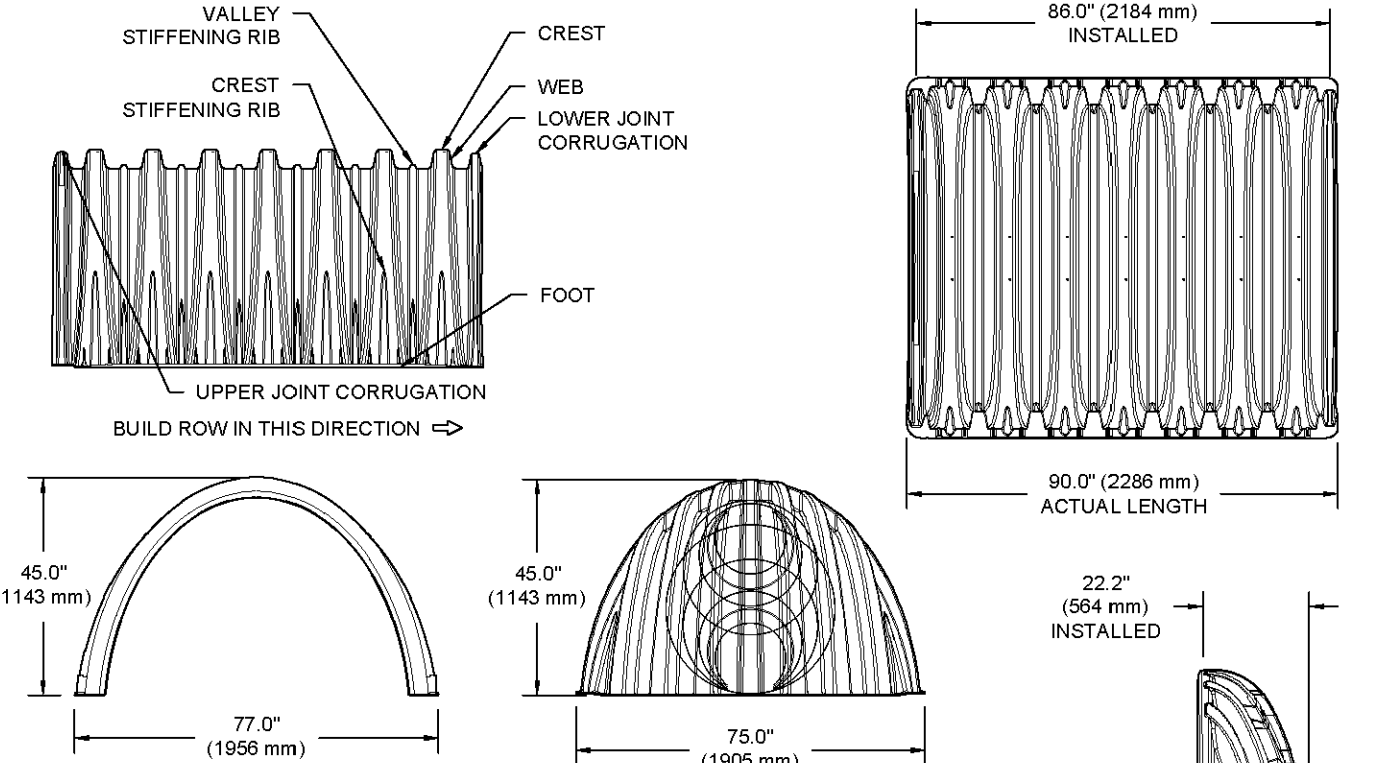
4640 TRUMAN BLVD
HILLIARD, OH 43026
1-800-733-9273

Stormtech

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SHEET 1 OF 1

MC-3500 TECHNICAL SPECIFICATION



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	77.0" X 45.0" X 86.0" (1956 mm X 1143 mm X 2184 mm)
CHAMBER STORAGE	178.9 CUBIC FEET (5.06 m ³)
MINIMUM INSTALLED STORAGE*	134 lbs. (60.8 kg)
WEIGHT	

NOMINAL END CAP SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	75.0" X 45.0" X 22.2" (1905 mm X 1143 mm X 564 mm)
END CAP STORAGE	14.9 CUBIC FEET (0.42 m ³)
MINIMUM INSTALLED STORAGE*	46.0 CUBIC FEET (1.30 m ³)
WEIGHT	49 lbs. (22.2 kg)

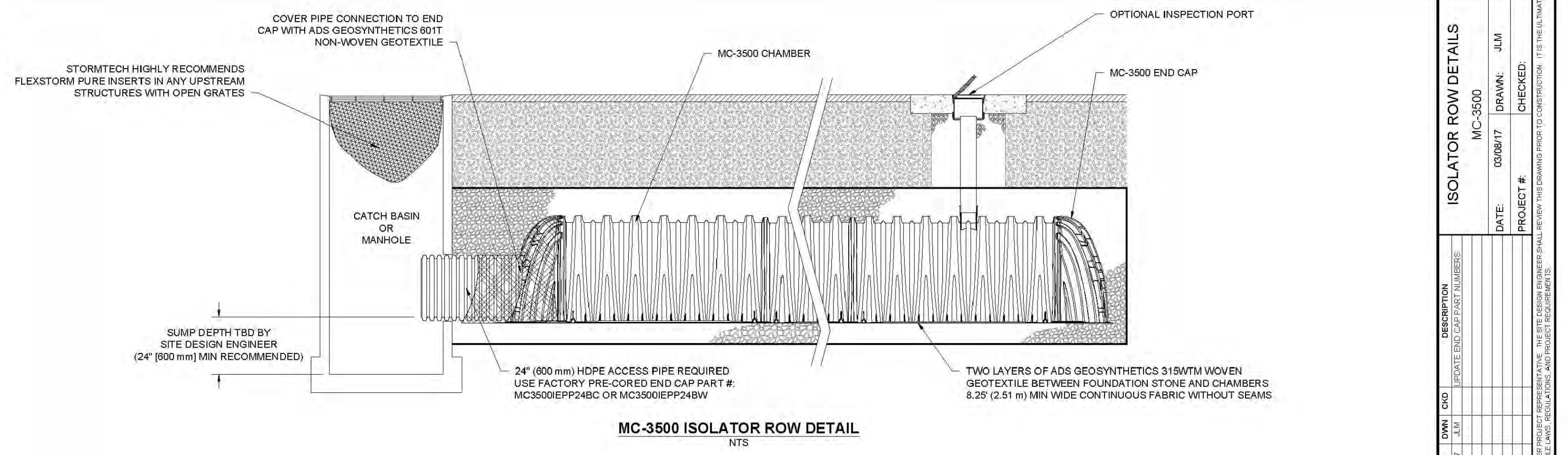
*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION AND BETWEEN CHAMBERS, 6" (152 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY

STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B" STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T" END CAPS WITH A WELDED CROWN PLATE END WITH "C" END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W"

PART #	STUB	B	C
MC3500EPP08T	6" (150 mm)	33.21" (844 mm)	0.96" (17 mm)
MC3500EPP08B	6" (150 mm)	31.16" (791 mm)	0.96" (17 mm)
MC3500EPP08T	8" (200 mm)	—	0.81" (21 mm)
MC3500EPP08B	8" (200 mm)	29.04" (738 mm)	—
MC3500EPP10T	10" (250 mm)	—	0.93" (24 mm)
MC3500EPP10B	10" (250 mm)	26.36" (670 mm)	—
MC3500EPP12T	12" (300 mm)	—	1.35" (34 mm)
MC3500EPP12B	12" (300 mm)	23.38" (594 mm)	—
MC3500EPP15T	15" (375 mm)	—	1.50" (38 mm)
MC3500EPP15B	15" (375 mm)	20.03" (509 mm)	—
MC3500EPP18T	18" (450 mm)	—	1.77" (45 mm)
MC3500EPP18B	18" (450 mm)	14.48" (368 mm)	—
MC3500EPP24T	24" (600 mm)	—	2.06" (52 mm)
MC3500EPP24B	24" (600 mm)	—	2.06" (52 mm)
MC3500EPP24W	30" (750 mm)	—	2.75" (70 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL

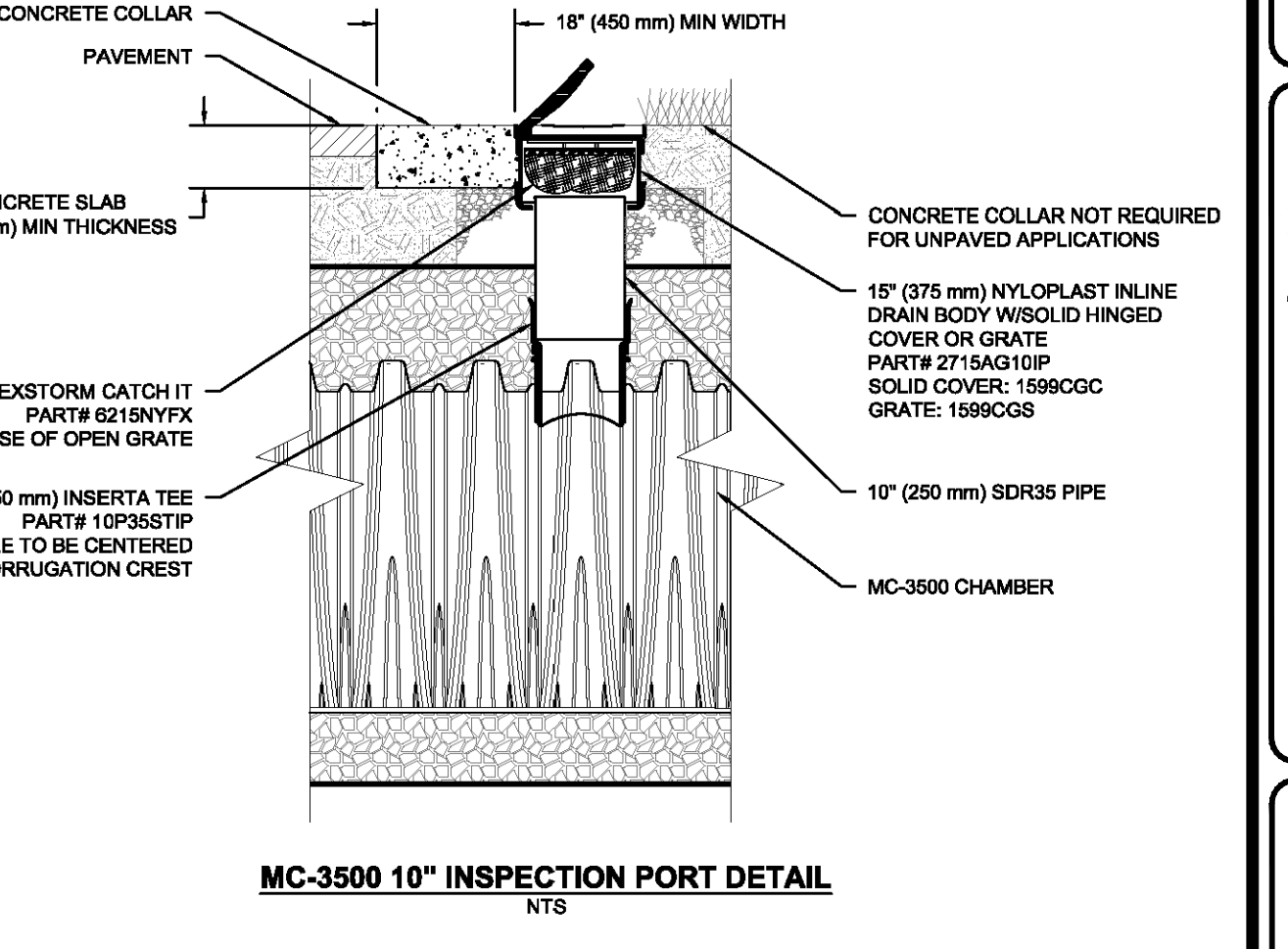
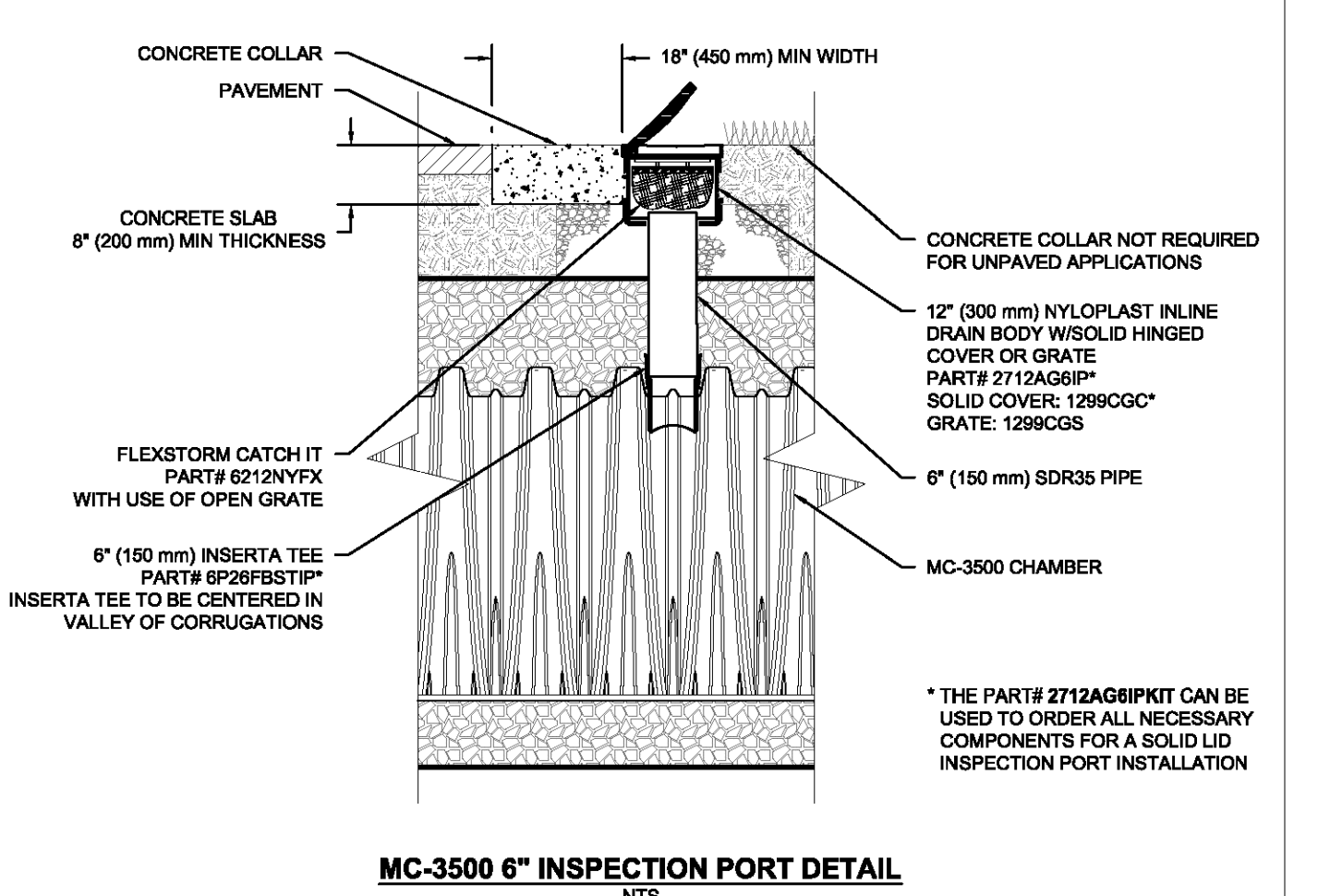
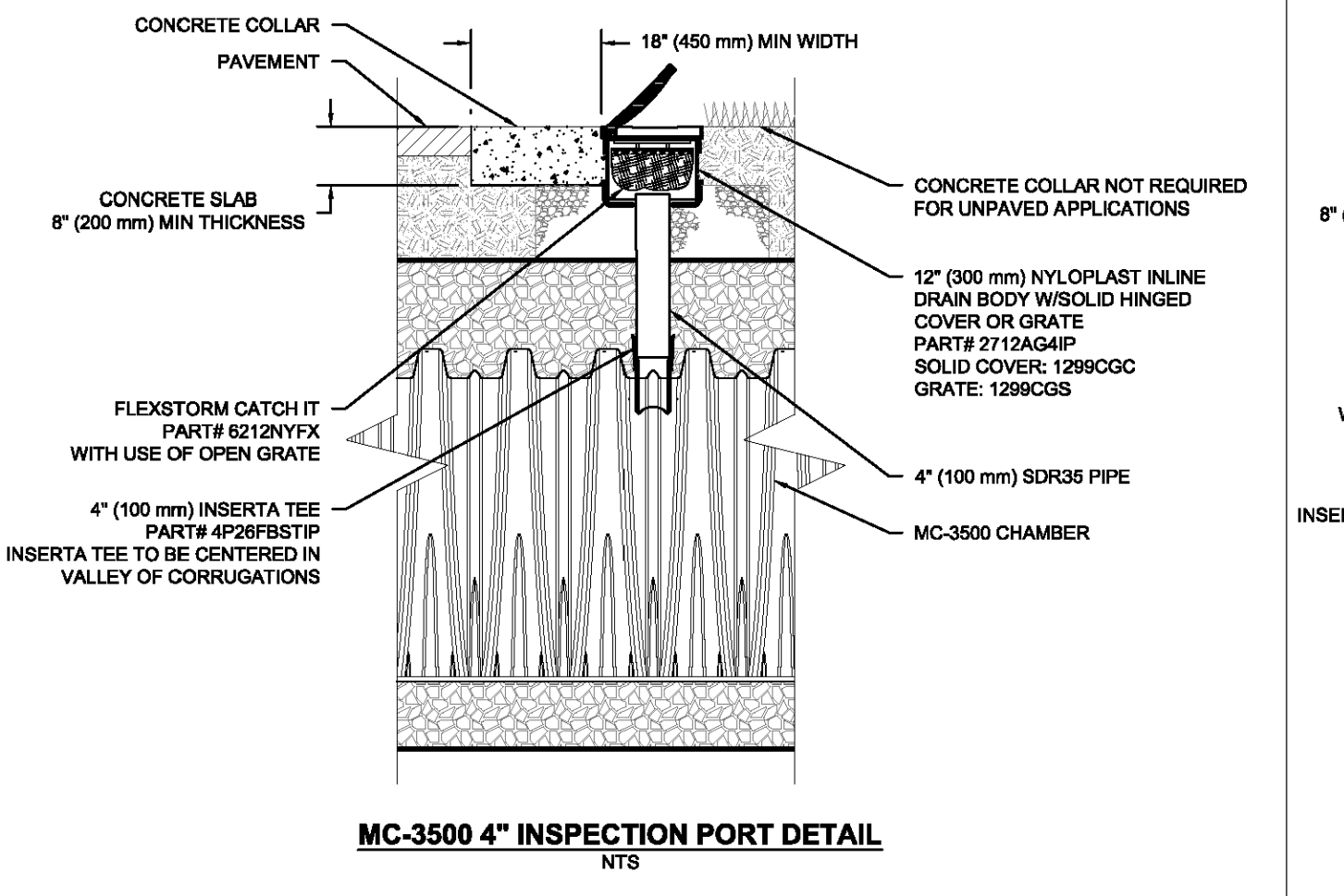
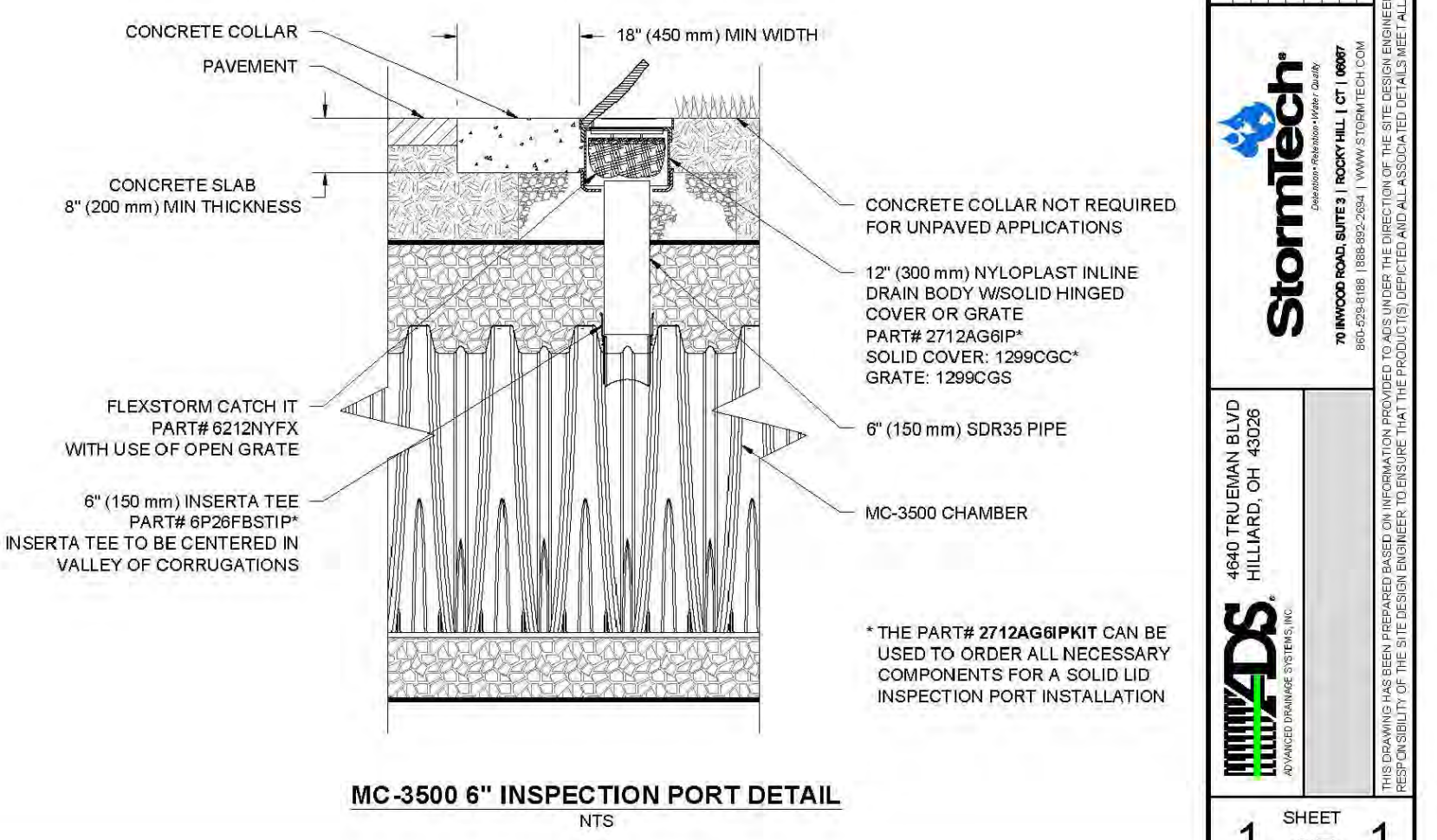
CUSTOM PRECURED INVERTS ARE AVAILABLE UPON REQUEST. INVERTED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-3500 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm). THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.



INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
- INSPECTION PORTS (IF PRESENT)
 - REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
 - REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
 - USING A FLASHLIGHT AND STADIUM ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 - LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
 - ALL ISOLATOR ROWS
 - REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
 - USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
 - MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
 - FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
 - APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
 - VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

- NOTES**
- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
 - CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



BOHLER ENGINEERING

SITE CIVIL AND CONSULTING ENGINEERING ARCHITECTURE
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REVISIONS

REV	DATE	COMMENT	BY
1	09/21/18	PER TOWNSHIP REVIEW COMMENTS	JHT

CALL BEFORE YOU DIG!

PA1 PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE - STOP CALL

POCS SERIAL NUMBER: 20172771117

1-800-242-1776

PROJECT No.: PC171170
 DRAWN BY: JHT
 DATE: 5/18/2018
 SCALE: AS NOTED
 CAD I.D.: PC171170DETAILS-1

FINAL LAND DEVELOPMENT PLANS

FOR

PROVCO PINEGOOD, CHALFONT, LLC

PROPOSED WAWA

BUTLER AVENUE (SR 4202) & COUNTY LINE ROAD
 NEW BRITAIN TOWNSHIP
 BUCKS COUNTY
 PENNSYLVANIA

BOHLER ENGINEERING

1600 MANOR DRIVE, SUITE 200
 CHALFONT, PENNSYLVANIA 18914
 Phone: (215) 996-9100
 Fax: (215) 996-9102
 www.BohlerEngineering.com

J.R. KORCZAK

PROFESSIONAL ENGINEER
 PENNSYLVANIA LICENSE NO. PE074279

SHEET TITLE: **POST CONSTRUCTION STORMWATER MANAGEMENT DETAILS**
 (RECORD PLAN 9 OF 10)

SHEET NUMBER: **36**
 OF 37

REVISION 1 - 2018.09.21

