

PRELIMINARY/FINAL MAJOR SITE PLAN

OF PARKING LOT EXPANSION

FOR

BRISTOL MYERS SQUIBB

COMPRISED OF

3401 PRINCETON PIKE, BLOCK 5001, LOT 1.01

LAWRENCE TOWNSHIP, MERCER COUNTY, NEW JERSEY

OWNER/APPLICANT:
BRISTOL MYERS SQUIBB
 3401 PRINCETON PIKE
 LAWRENCE TOWNSHIP, NEW JERSEY 08648

ATTORNEY:
STEVENS & LEE, P.C.
 100 LENOX DRIVE, SUITE 200
 LAWRENCEVILLE, NEW JERSEY 08648

TRAFFIC ENGINEER:
LANGAN ENGINEERS
 989 LENOX DRIVE, SUITE 124
 LAWRENCEVILLE, NEW JERSEY 08648

ENGINEER-SURVEYOR:
VAN NOTE-HARVEY ASSOCIATES, DIVISION OF PENNONI
 103 COLLEGE ROAD EAST
 PRINCETON, NEW JERSEY 08540

APPROVED BY THE PLANNING BOARD OF LAWRENCE
 TOWNSHIP AS A PRELIMINARY / FINAL SITE PLAN

CHAIRMAN _____ DATE _____

SECRETARY _____ DATE _____

MUNICIPAL ENGINEER _____ DATE _____

ADMINISTRATIVE OFFICER _____ DATE _____

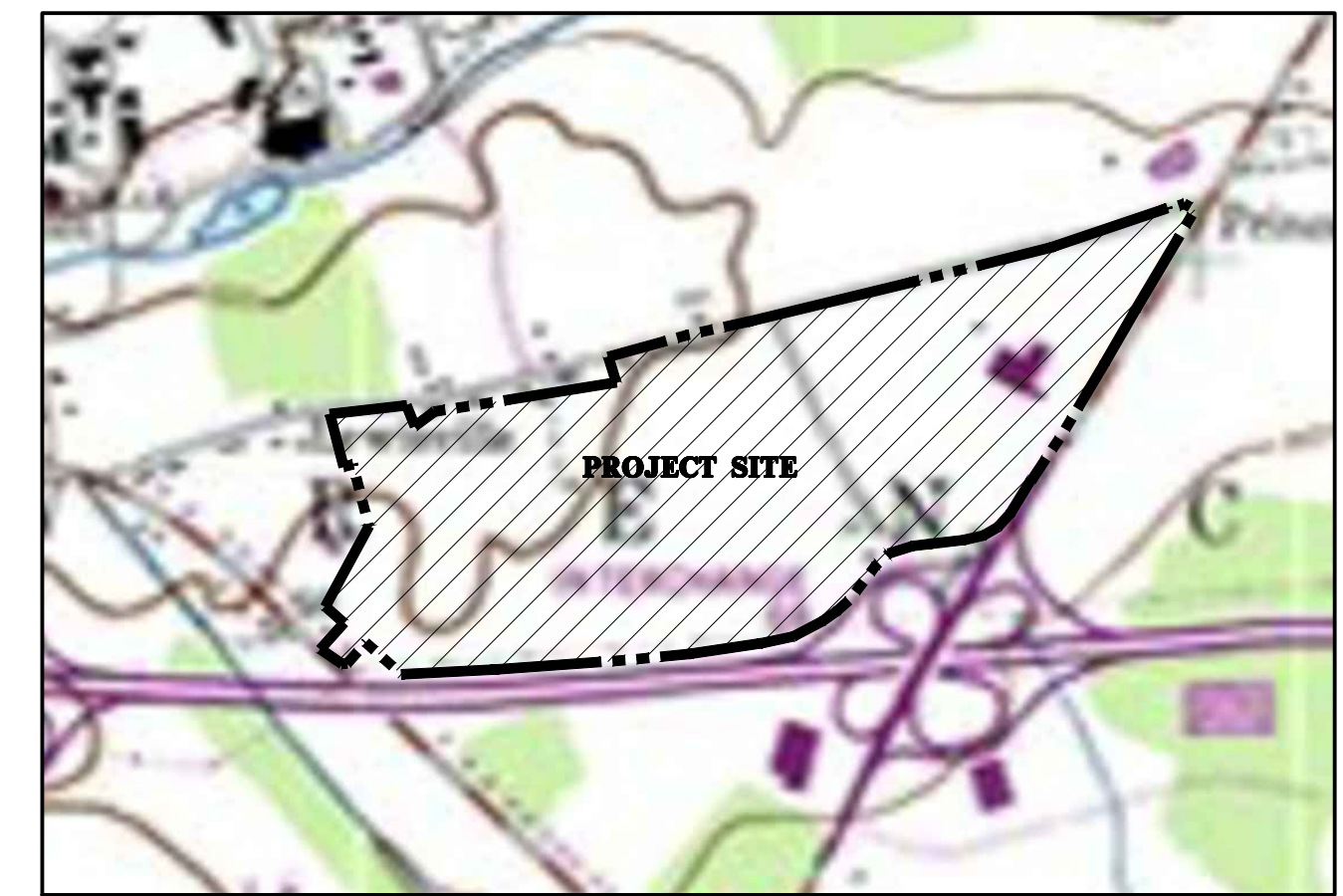
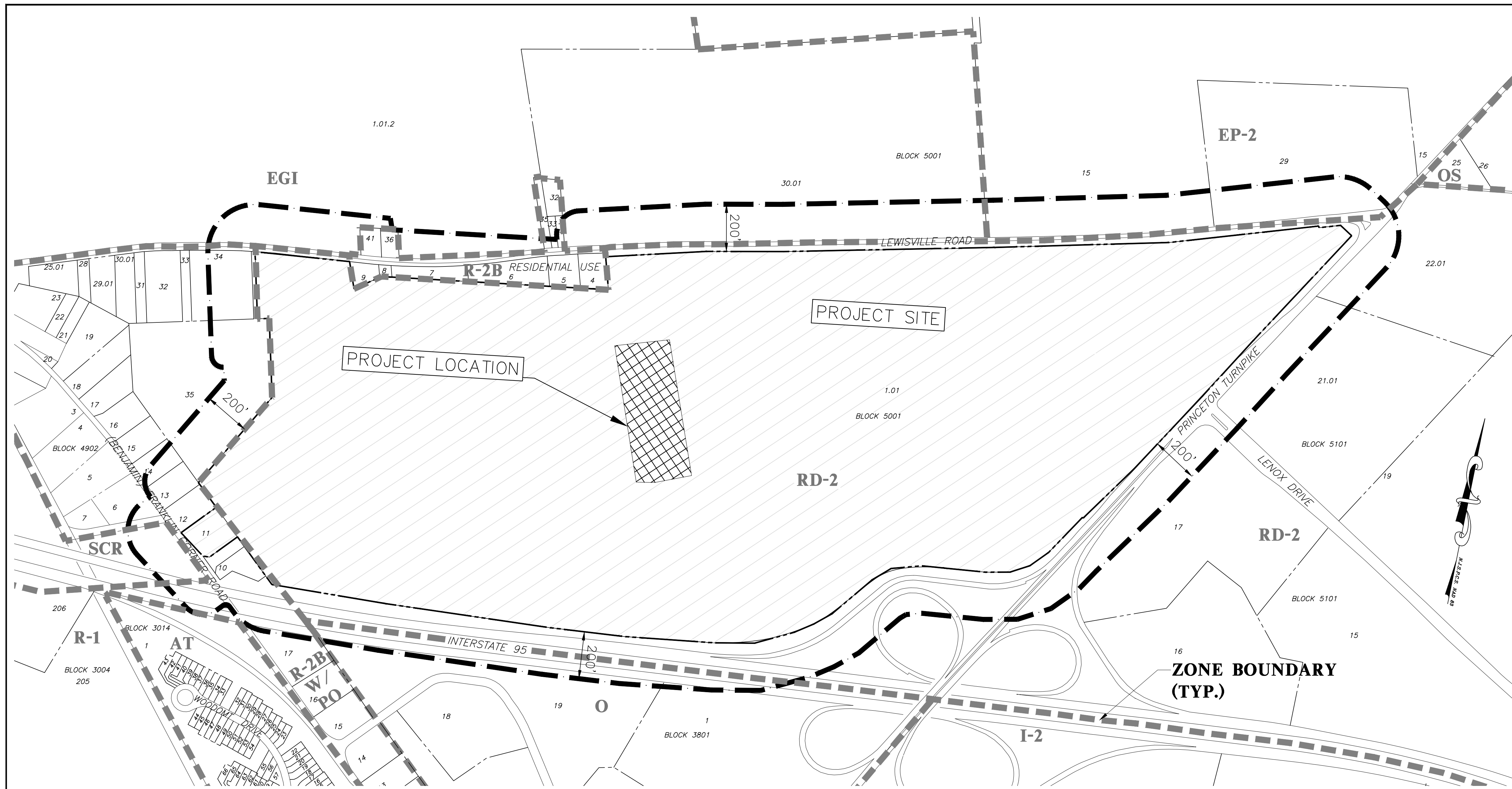
I/WE OWN THE PROPERTY AS DESIGNATED AND
 SHOWN HEREON AND HEREBY APPROVED THIS PLAN.

OWNER'S REPRESENTATIVE _____ DATE _____
 MR. ANDREW FRANGAKIS
 BRISTOL-MYERS SQUIBB

SHEET INDEX

CIVIL ENGINEERING PLANS:

SHEET NO.	TITLE
CVR	COVER SHEET
CE-1	VICINITY PLAN
CE-2	OVERALL SITE PLAN
CE-3	SITE DEMOLITION PLAN
CE-4	SITE LAYOUT PLAN
CE-5	SITE GRADING PLAN
CE-6	DRAINAGE & UTILITY
CE-7	UTILITY PROFILES
CE-8	LANDSCAPE AND LIGHTING
CE-9	LANDSCAPE DETAILS
CE-10	CONSTRUCTION DETAILS I
CE-11	CONSTRUCTION DETAILS II
1	EXISTING CONDITIONS TOPOGRAPHIC SURVEY



VICINITY MAP
SCALE: 1"=1000'

NOW AND FORMERLY PROPERTY OWNERS LIST WITHIN 200' OF BLOCK 5001, LOTS 1.01:

BLOCK	LOT	OWNER	BLOCK	LOT	OWNER
4901	1	Diocece of Trenton-Morris Hall - St Lawrence, 2381 Lawrenceville Rd, Lawrenceville, NJ 08648	5801	35	Egert, Douglas K & Gail Leslie, 76 Lewisville Rd, Lawrenceville, NJ 08648
4902	6.01	Lawrence Oral & Maxillo Facial Surgery, 3100 Princeton Pike, Lawrenceville, NJ 08648	5801	36	Plymouth Flat Tax Service, 300 Convergence Way, IFL Whippany, NJ 07981
5001	4	Lester, Judith K, 71 Lewisville Rd, Lawrenceville, NJ 08648	5801	41	Raischmid, John & Jill, 85 Lewisville Rd, Lawrenceville, NJ 08648
5001	5	Klockner, Daniel R Uk, 75 Lewisville Rd, Lawrenceville, NJ 08648			AGENCIES REQUIRING NOTICE Corporate Secretary, Ewing-Lawrence Sewerage Authority, 600 Whitehead Road, Lawrenceville, NJ 08648
5001	6.01	The Trustees of the Lawrenceville School, PO Box 6126, Lawrenceville, NJ 08648			Corporate Secretary, Public Service Electric & Gas Company, 50 Park Plaza, 4B, Newark, NJ 07101
5001	6.02	Lewisville Ventures LLC, PO Box 3314, Hamilton, NJ 08619			N.J. American Water, 1025 Laurel Oak Rd, Voorhees, NJ 08843
5001	7	The Trustees of the Lawrenceville School, PO Box 6126, Lawrenceville, NJ 08648			Elizabethtown Gas Company, One Elizabethtown Plaza, Third Floor East, Linco, NJ 07083-1975
5001	8	Nevis, Robert G & Bertha Davis, 87 Lewisville Rd, Lawrenceville, NJ 08648			Corporate Secretary, Trenton Water Works, PO Box 528, Trenton, NJ 08646
5001	9	Ruddle, Lori J., 9 Tall Timbers Drive, Princeton, NJ 08540			Corporate Secretary, Verizon, 540 Broad Street, Newark, NJ 07101
5001	10	Jersey Central P&L C/O Ser TXDEP, 800 800 Cabin Hill Drive, Greensburg, PA 15601			Aqua Water Company, 2975 Erial Road Attn: James Benato, Erial, NJ 08801
5001	12	Zrinko, Paul J & Bethanne, 56 Franklin Corner Rd, Lawrenceville, NJ 08648			General Manager, Comcast Cablevision, 940 Prospect Street, Trenton, NJ 08618
5001	13	Cole, Edward C Uk, 52 Franklin Corner Rd, Lawrenceville, NJ 08648			RON Corporation, 105 Carnegie Center, Princeton, NJ 08540
5001	14	Khan, Saleem A & Aysha S, 50 Franklin Corner Rd, Lawrenceville, NJ 08648			Corporate Secretary, AT&T, 1 AT&T Way, Bedminster, NJ 07821
5001	34.01	Sienkiewicz, Jozef & Anna, 105 Lewisville Road, Lawrenceville, NJ 08648			Mercer County Planning Board, 640 South Broad Street, PO Box 8068, Trenton, NJ 08650-8068
5001	34.02	Stachowski, Stanislaw, 16 Oden Avenue, Somerville, NJ 08083			Corporate Secretary, Jersey Central Power and Light, 300 Madison Ave, Morristown, NJ 07962
5001	35	Ben Franklin Swim Club, Lewisville Rd PO Box 6371, Lawrenceville, NJ 08648			Sun Pipe Line Company, Attn: R-O-W Department, 1801 Market Street, 26 th Floor, Philadelphia, PA 19103-1699
5101	17	AG-Prism NJPP 993 Lenox C/O Prism 2000 Lenox Drive, Suite 102, Lawrence Twsp, 08648			Corporate Secretary, Transcontinental Gas Pipe Line Corporation, 2800 Post Oak Boulevard, Houston, TX 77056
5101	21.01	100 Lenox Drive, A Condo C/O Prism 2000 Lenox Drive, Suite 102, Lawrence Twsp, 08648			Sunoco Pipe Line, L.P., Right-of-way Department, Montello Complex, 525 Fritztown Road, Sinking Spring, PA 19608
5101	22.01	Princeton Research Lands, Inc., 195 Nassau Street, Princeton, NJ 08542			Commissioner NJ Department of Transportation, 1035 Parkway Ave, CN 600, Trenton, NJ 08625
5801	1.01.2, 29, 30.01	Trustees of Lawrenceville School, PO Box 6126, Lawrenceville, NJ 08648			
5801	15	Cherry Grove Farm LLC C/O W Hamill, 974 Lawrence-Princeton Road, Princeton, NJ 08540			
5801	33	Pinner, Herman & FS, 229 N Columbus St, Arlington, VA 22203			
5801	34	Hampton, Anne Truehart, 101 Texas Ave, Lawrenceville, NJ 08648			

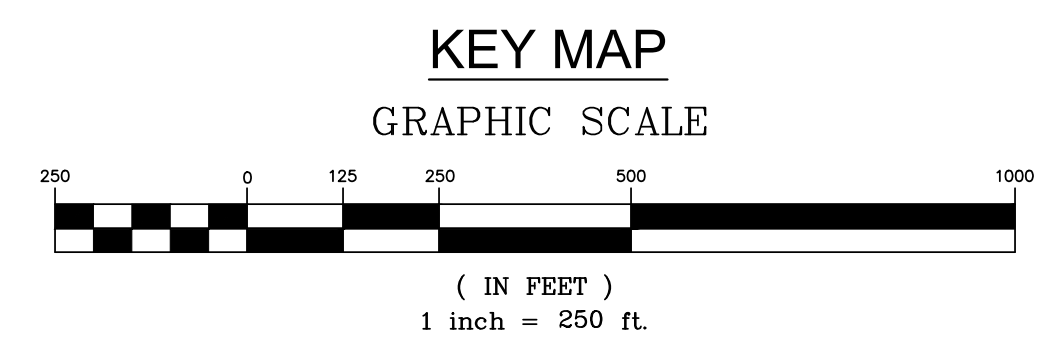
ZONE DISTRICTS

ZONE DISTRICTS	DESCRIPTION
AT	APARTMENT AND TOWNHOUSE
EGI	EDUCATION, GOVERNMENT AND INSTITUTIONS
EP-2	ENVIRONMENTAL PROTECTION 2
I-2	LIMITED INDUSTRIAL 2
O	OFFICE
OS	OPEN SPACE
R-1	RESIDENTIAL 1
R-2B	RESIDENTIAL 2B
R-2B W/ PO	RESIDENTIAL 2B WITH PROFESSIONAL OFFICE
RD-2	RESEARCH AND DEVELOPMENT 2
SCR	SENIOR CITIZEN RESIDENTIAL

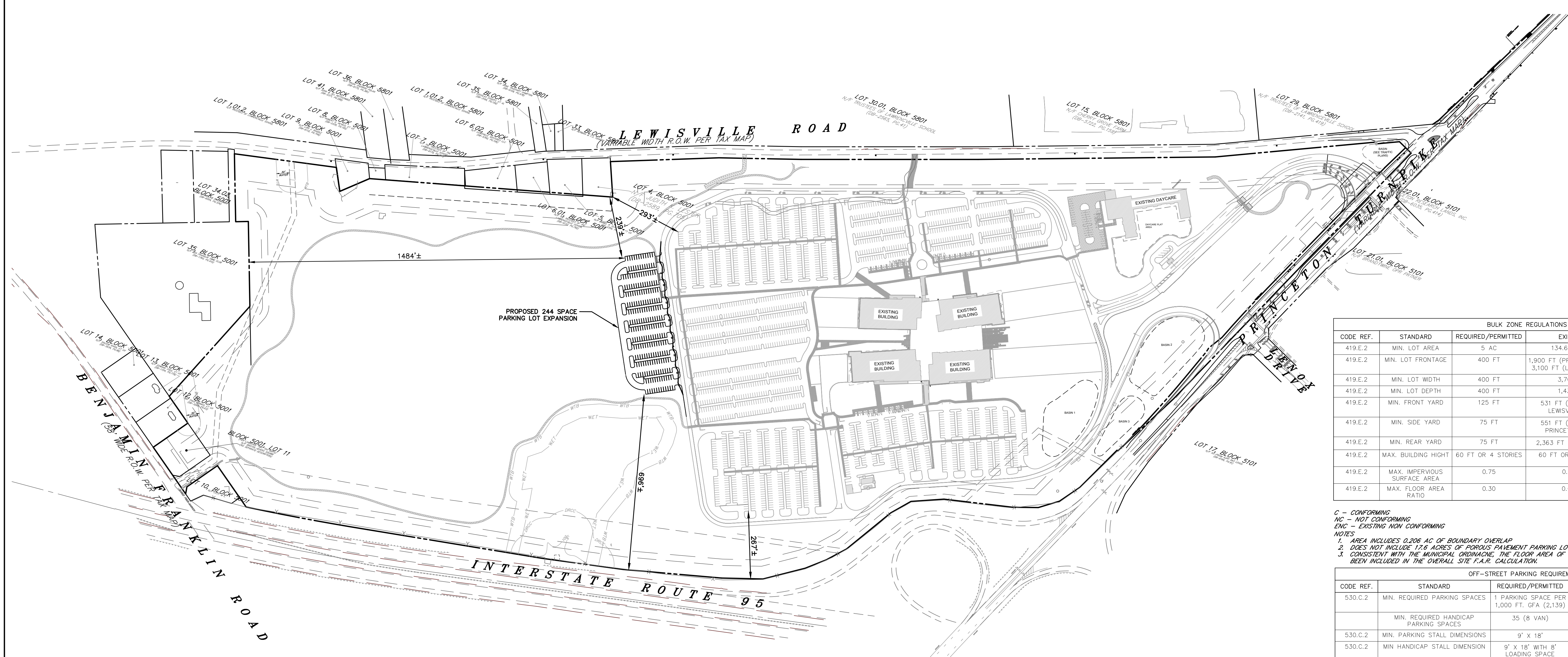
LEGEND

45.01	DENOTES BLOCK NUMBER
25	DENOTES LOT NUMBER
	DENOTES 200' PROPERTY LINE OFFSET
	DENOTES ZONING BOUNDARY
	DENOTES ZONING DISTRICT
	DENOTES STREET NAME

PRINCETON TURNPIKE



<p>van note-harvey division of pennoni 103 College Road East • Princeton, NJ 08540 • 609-987-2323 211 Bayberry Drive • Cape May Court House, NJ 08210 • 609-465-2600</p> <p>www.vannoteharvey.com www.pennoni.com</p> <p>Certificate of Authorization No. 24GA28033300</p>		<p>VICINITY PLAN OF PARKING LOT EXPANSION PREPARED FOR BRISTOL MYERS SQUIBB SITUATED IN</p>
<p>REV. DESCRIPTION DATE DFT. BY CKD. BY</p> <p><i>Ralph A. Petrella</i> 11/21/2024 DATE OF SIGN.</p> <p>RALPH A. PETRELLA N.J. PROFESSIONAL ENGINEER LIC. NO. 64160</p>		
<p>LAWRENCE TOWNSHIP SCALE 1" = 250'</p> <p>DRAWN BY WCC/NDV DATE 12/12/23 FIELD BK XXXX ORDER No. XXXX-XXXX-XXXX-XX FILE No. BRMYS23006 SHEET No. CE-1</p> <p>CHECKED BY RAP DATE 11/21/24</p>		<p>MERCER CO., N.J. DECEMBER 08, 2023</p>



BULK ZONE REGULATIONS					
CODE REF.	STANDARD	REQUIRED/PERMITTED	EXISTING	PROPOSED	CONFORMANCE
419.E.2	MIN. LOT AREA	5 AC	134.613 AC ¹	NO CHANGE	C
419.E.2	MIN. LOT FRONTAGE	400 FT	1,900 FT (PRINCETON PIKE) 3,100 FT (LEWISVILLE RD)	NO CHANGE	C
419.E.2	MIN. LOT WIDTH	400 FT	3,700 FT	NO CHANGE	C
419.E.2	MIN. LOT DEPTH	400 FT	1,430 FT	NO CHANGE	C
419.E.2	MIN. FRONT YARD	125 FT	531 FT (BLDG A TO LEWISVILLE RD)	NO CHANGE	C
419.E.2	MIN. SIDE YARD	75 FT	551 FT (BLDG B TO PRINCETON PIKE)	NO CHANGE	C
419.E.2	MIN. REAR YARD	75 FT	2,363 FT (TO BLDG C)	NO CHANGE	C
419.E.2	MAX. BUILDING HEIGHT	60 FT OR 4 STORIES	60 FT OR 4 STORIES	NO CHANGE	C
419.E.2	MAX. IMPERVIOUS SURFACE AREA	0.75	0.14 ²	NO CHANGE	C
419.E.2	MAX. FLOOR AREA RATIO	0.30	0.09 ³	NO CHANGE	C

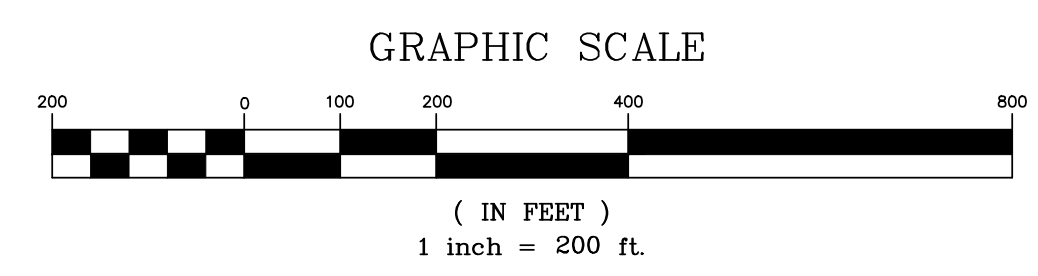
C - CONFORMING
 NC - NOT CONFORMING
 ENC - EXISTING NON CONFORMING

NOTES
 1. AREA INCLUDES 0.206 AC OF BOUNDARY OVERLAP
 2. DOES NOT INCLUDE 17.6 ACRES OF POROUS PAVEMENT PARKING LOT SURFACE
 3. CONSISTENT WITH THE MUNICIPAL ORDINANCE, THE FLOOR AREA OF THE CHILD CARE FACILITY HAS NOT BEEN INCLUDED IN THE OVERALL SITE F.A.R. CALCULATION.

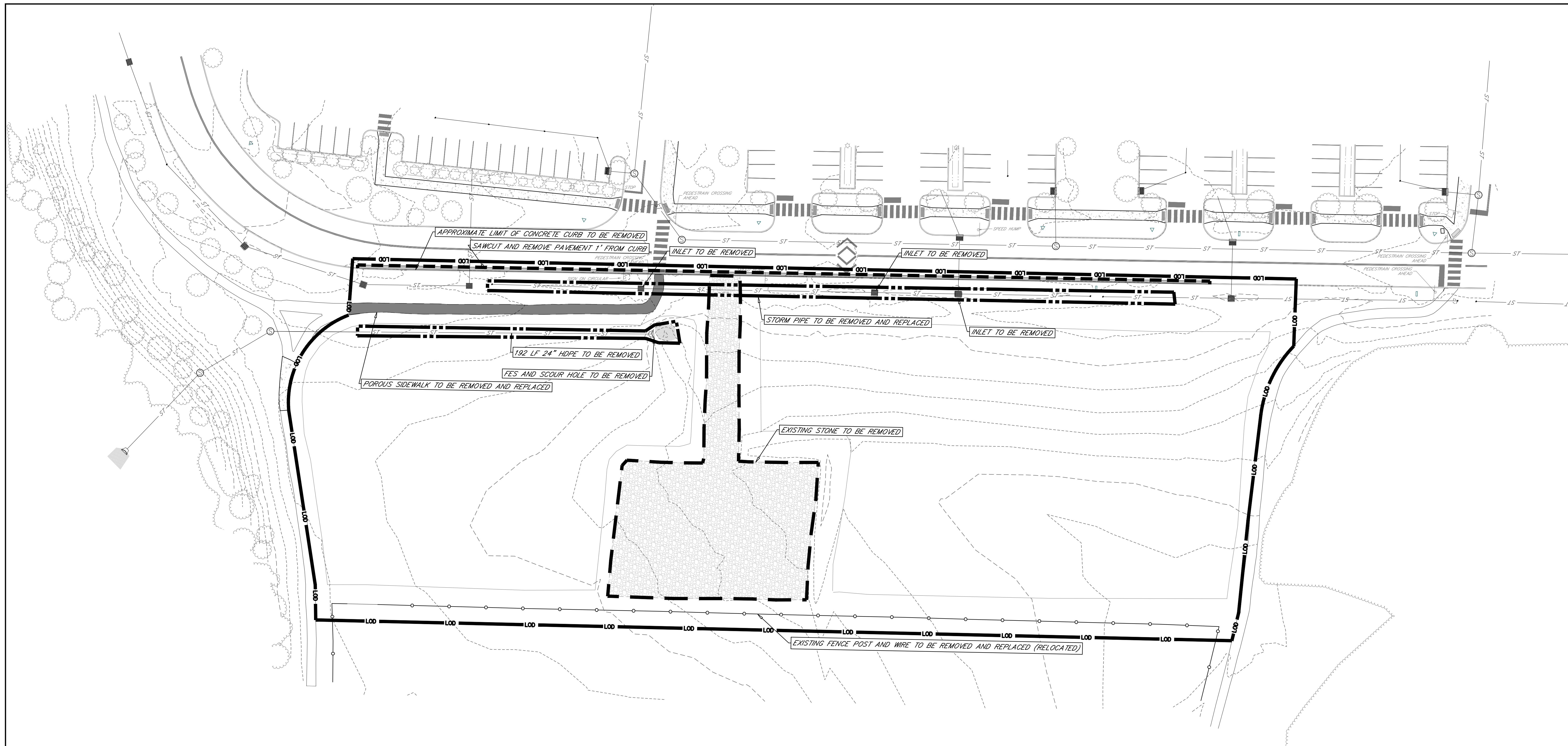
OFF-STREET PARKING REQUIREMENTS					
CODE REF.	STANDARD	REQUIRED/PERMITTED	EXISTING	PROPOSED	CONFORMANCE
530.C.2	MIN. REQUIRED PARKING SPACES	1 PARKING SPACE PER 1,000 FT. GFA (2,139)	2,221	244 (2,465 TOTAL)	C
	MIN. REQUIRED HANDICAP PARKING SPACES	35 (8 VAN)	43 (12 VAN)	NO CHANGE	C
530.C.2	MIN. PARKING STALL DIMENSIONS	9' X 18'	9' X 18'	NO CHANGE	C
530.C.2	MIN HANDICAP STALL DIMENSION	9' X 18' WITH 8' LOADING SPACE	9' X 18' WITH 8' LOADING SPACE	NO CHANGE	C
530.C.2	MIN EV SPACE REQUIREMENT FOR 100+ SPACES	2, PLUS 1 FOR EVERY ADDITIONAL 100 STALLS	20 EV	NO CHANGE	C

GENERAL NOTES

- SEE LANDSCAPE PLANS FOR ADDITIONAL HARDSCAPE MATERIALS AND DIMENSIONS.
- PARKING LOTS SHALL BE POROUS ASPHALT PAVING. REFER TO SITE DRAINAGE AND UTILITY PLANS AND CONSTRUCTION DETAIL SHEETS FOR LIMITS.



van note-harvey division of pennoni 103 College Road East • Princeton, NJ 08540 • 609-987-2323 211 Bayberry Drive • Cape May Court House, NJ 08210 • 609-465-2600 www.vannotoharvey.com Certificate of Authorization No. 24GA28033300 www.pennoni.com				
OVERALL SITE PLAN OF PARKING LOT EXPANSION PREPARED FOR BRISTOL MYERS SQUIBB SITUATED IN LAWRENCE TOWNSHIP MERCER CO., N.J. SCALE 1" = 200' DRAWN BY: WGC/WDV FIELD BK: ORDER No. FILE No. SHEET No. DATE: 12/12/23 PAGE: XXXX- BRMYS23006 CHECKED BY: RAP DATE: 11/21/24 XXX-XX RALPH A. PETRELLA N.J. PROFESSIONAL ENGINEER LIC. NO. GE 46160 CE-2				
REV.	DESCRIPTION	DATE	DFT.BY	CKD.BY



APPROXIMATE LIMIT OF CONCRETE CURB TO BE REMOVED
 SAWCUT AND REMOVE PAVEMENT 1' FROM CURB
 PEDESTRIAN CROSSING AHEAD
 INLET TO BE REMOVED
 192 LF 24" HDPE TO BE REMOVED
 PORES AND SCOUR HOLE TO BE REMOVED
 POROUS SIDEWALK TO BE REMOVED AND REPLACED

STORM PIPE TO BE REMOVED AND REPLACED
 INLET TO BE REMOVED

EXISTING STONE TO BE REMOVED

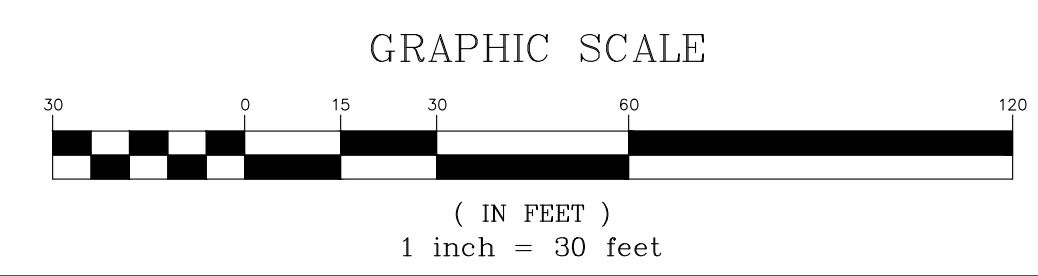
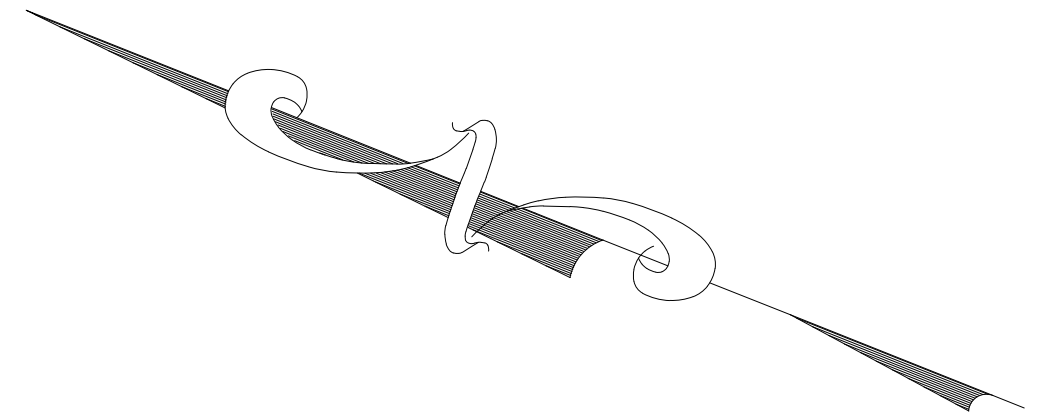
EXISTING FENCE POST AND WIRE TO BE REMOVED AND REPLACED (RELOCATED)

DEMOLITION LEGEND:

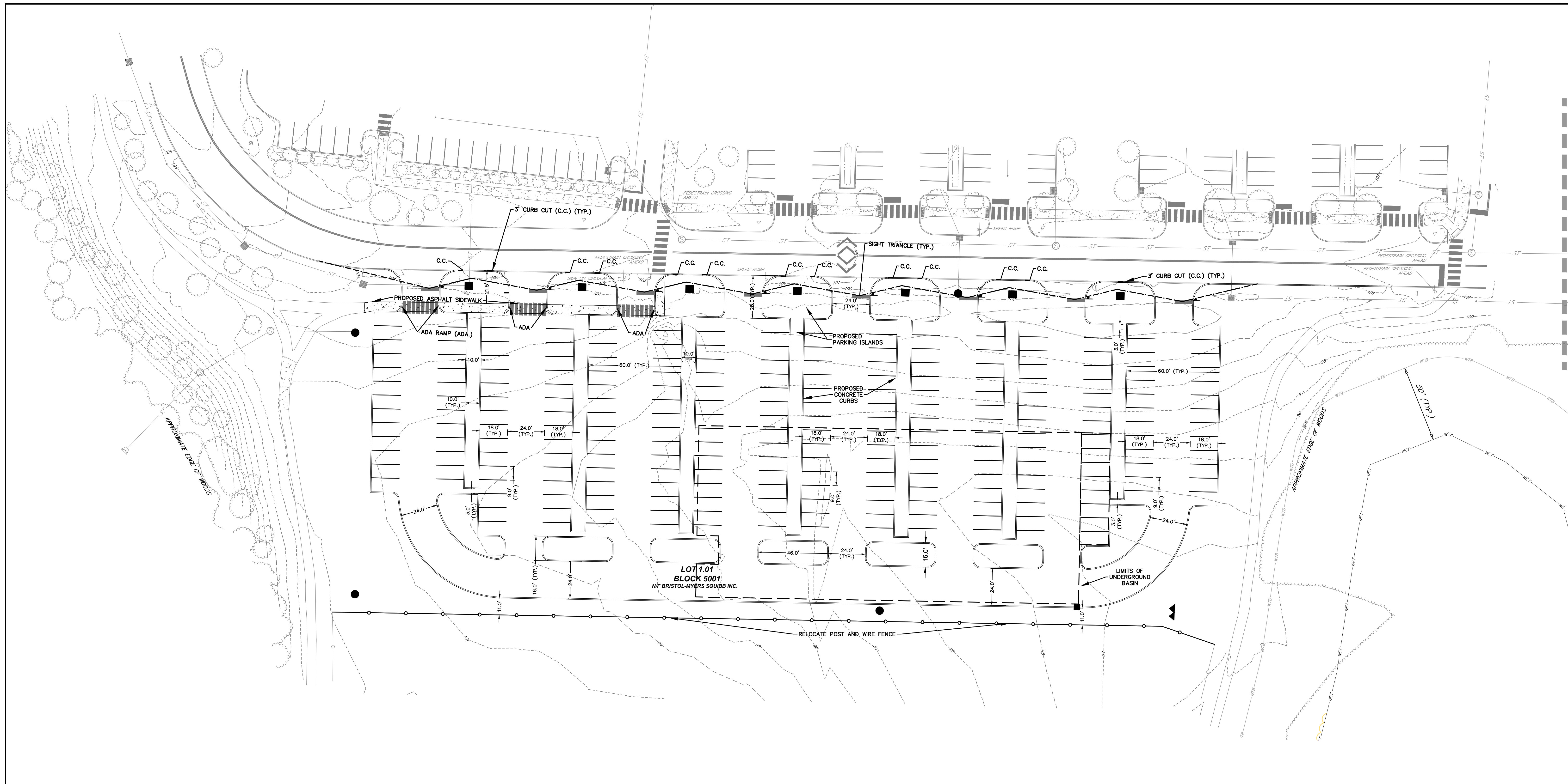
	LIMIT OF DISTURBANCE (AREA=3.34 AC)
	EXISTING INLETS AND PIPING TO BE REMOVED/ABANDONED
	EXISTING PAVED AND PARKING AREAS TO BE REMOVED

GENERAL NOTES

- SEE LANDSCAPE PLANS FOR TREE REMOVAL/DISPOSAL OFFSITE.
- ALL DEMOLITION DEBRIS TO BE REMOVED AND DISPOSED OF OFFSITE PER LOCAL, STATE REGULATIONS. ALL DISPOSAL COSTS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL EXISTING PIPING TO BE ABANDONED SHALL BE SEALED INPLACE WITH A CEMENT, BRICK OR BLOCK BULKHEAD.



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<p>DEMOLITION PLAN OF PARKING LOT EXPANSION PREPARED FOR BRISTOL MYERS SQUIBB SITUATED IN</p>					
<p>REV. DESCRIPTION DATE DFT.BY CKD.BY</p>		<p><i>Ralph A. Petrella</i> 11/21/2024 DATE OF SIGN.</p>		<p>LAWRENCE TOWNSHIP MERCER CO., N.J. SCALE 1" = 30' DECEMBER 08, 2023</p>	
<p>RALPH A. PETRELLA N.J. PROFESSIONAL ENGINEER LIC. NO. GE 46160</p>		<p>FIELD BK XXXX DATE 12/12/23 CHECKED BY RAP DATE 11/21/24</p>		<p>ORDER No. XXXX-XXX-XX FILE No. BRMYS23006 SHEET No. CE-3</p>	



GENERAL NOTES

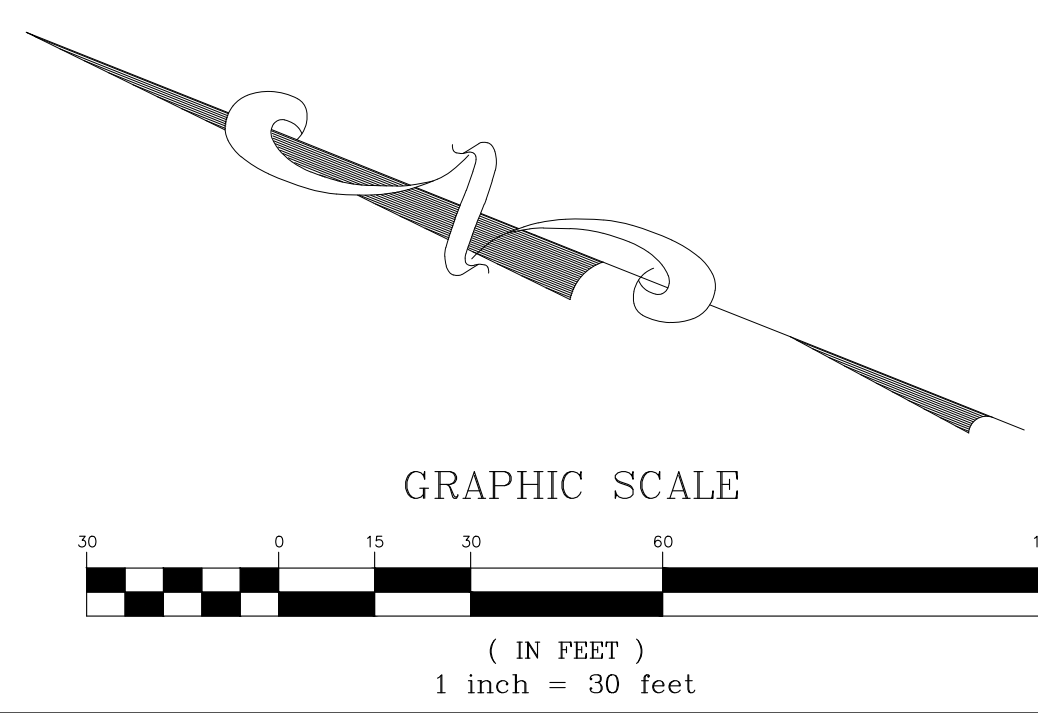
1. PARKING LOTS SHALL BE POROUS ASPHALT PAVING. REFER TO SITE DRAINAGE AND UTILITY PLANS AND CONSTRUCTION DETAIL SHEETS FOR LIMITS.
2. ALL INTERIOR ROADWAYS AND DRIVES NOT DESIGNATED AS POROUS PAVEMENT SHALL BE CONSTRUCTED WITH THE STANDARD PAVEMENT SECTION PER THE DETAIL ON SHEET CE-39.

- ABBREVIATIONS:**
- FG = FINISHED GRADE
 - GR = TOP OF GRADE
 - TC = TOP OF CURB
 - D.C. = DEPRESSED CURB
 - PT = POINT OF TANGENT
 - PC = POINT OF CURVE
 - TI = TYPE B INLET
 - 52B = TOP OF PIPE
 - TS = TOP OF STRUCTURE
 - UGS = UNDERGROUND STONE STORAGE
 - C.C. = CURB CUT
 - F.F.F. = FINISHED FIRST FLOOR
 - F.B.F. = FINISHED BASEMENT FLOOR
 - R1-1 = STOP SIGN
 - R6-1 = ONE WAY SIGN
 - R4-7c = MEDIAN SIGN
 - 52E = TYPE E INLET
 - VB = VALVE BOX
 - WV = WATER VALVE
 - GV = GAS VALVE
 - TW = TOP OF WALL
 - BW = BOTTOM OF WALL
 - RM = TOP OF MANHOLE
 - MTD = MANUFACTURED TREATMENT DEVICE

- EXISTING LEGEND:**
- DENOTES EXISTING CONCRETE MONUMENT UNDER PREVIOUS SUBDIVISION
 - DENOTES EXISTING CAPPED IRON PIN
 - DENOTES EXISTING PK NAIL W/WASHER
 - DENOTES EXISTING X CUT ON CURB
 - EXISTING TRAFFIC SIGNAL
 - EXISTING SIGNS
 - EX. INLETS
 - EX. WOODEN FENCE
 - EXISTING SANITARY MANHOLE
 - EXISTING STORM MANHOLE
 - EXISTING TELEPHONE MANHOLE
 - EXISTING ELECTRIC MANHOLE
 - EXISTING WATER VALVE
 - EXISTING UTILITY BOX
 - EXISTING LIGHTPOLE
 - EXISTING FIRE HYDRANT

- EXISTING LEGEND (CONTD):**
- EXISTING TREE
 - EXISTING SHRUB
 - EXISTING TREE LINE PER AERIAL
 - ST — EXISTING STORM DRAINAGE PIPELINE
 - SW — EXISTING SANITARY SEWER PIPELINE
 - 100 — EXISTING CONTOUR
 - W — EXISTING WATER LINE
 - G — EXISTING GAS LINE
 - 7 — EXISTING TELEPHONE
 - UG — EXISTING CABLE
 - 100 — EXISTING ELECTRIC
 - CATV — EXISTING CABLE TV
 - — EXISTING FIBER OPTIC LINE

- PROPOSED LEGEND:**
- CONCRETE WALK
 - ASPHALT PATH
 - DECORATIVE PAVED TERRACE
 - PAINTED CROSSWALK
 - DECORATIVE PAVED CROSSWALK
 - CONCRETE CURB
 - DEPRESSED CURB
 - SIGHT TRIANGLE LINE
 - PARKING STRIPING
 - PAVEMENT HATCHING
 - HANDICAPPED PARKING
 - (29) PARKING COUNT
 - WHEEL STOP
 - TRAFFIC SIGN
 - DETECTABLE WARNING SURFACE
 - LIGHTED BOLLARD
 - POLE-MOUNTED LIGHT
 - BOLLARD



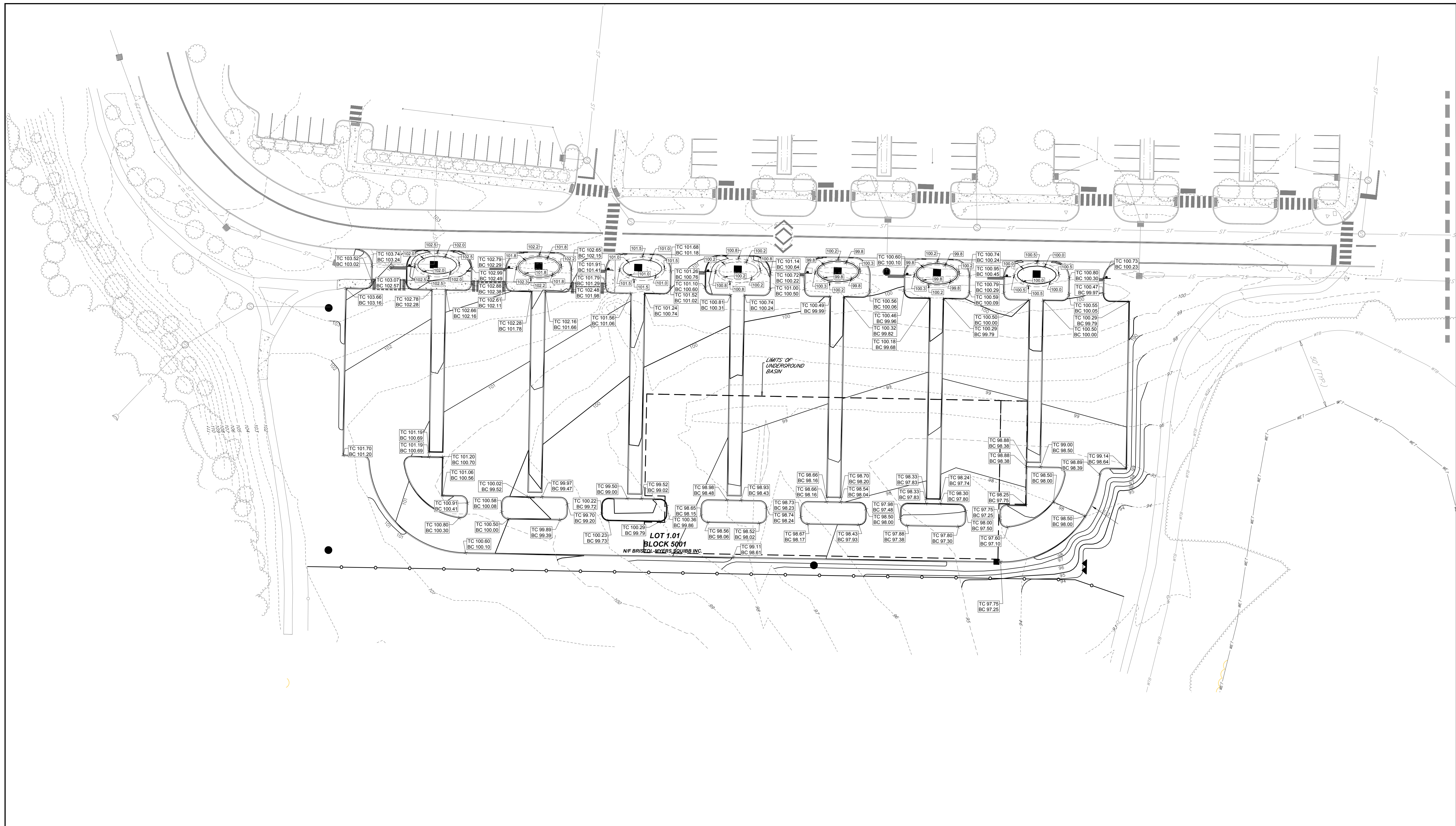
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SITE LAYOUT PLAN
 OF
PARKING LOT EXPANSION
 PREPARED FOR
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 SITUATED IN

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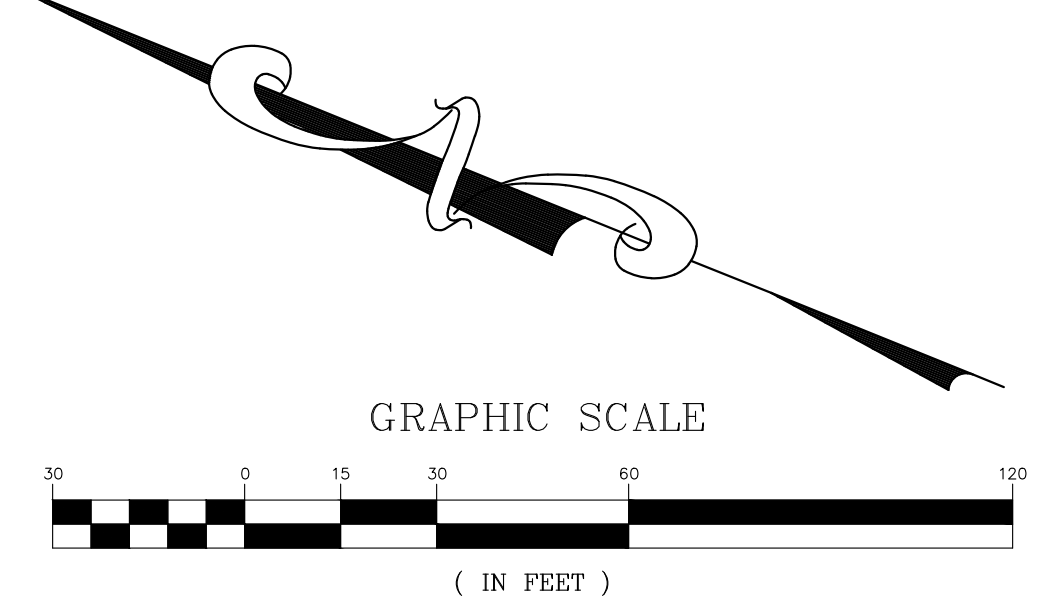


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- EXISTING LEGEND (CONT'D):**
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Ralph A. Petrella 11/21/2024
DATE OF SIGN.

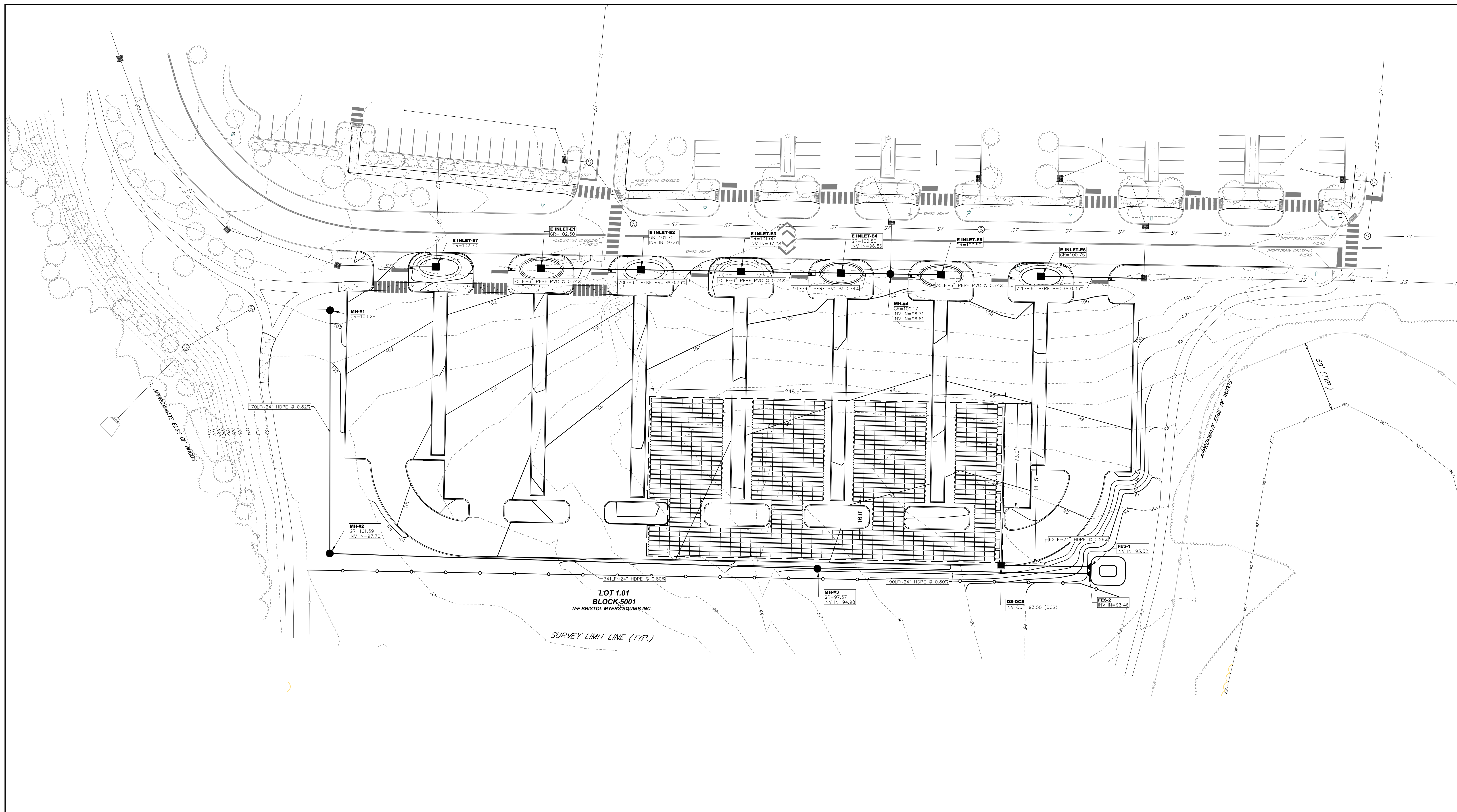
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LOT 1.01
BLOCK 5001
NF BRISTOL MYERS SQUIBB INC.

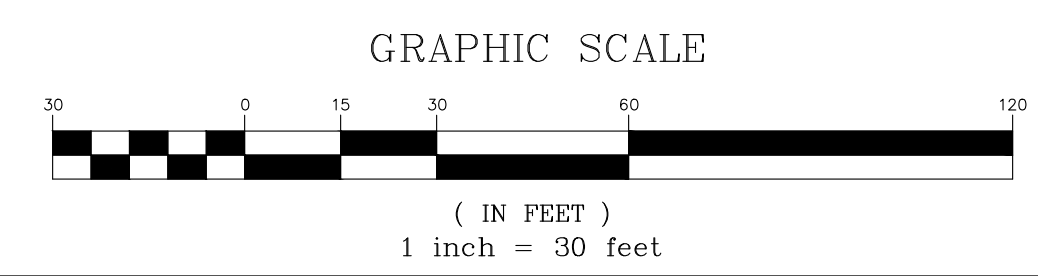
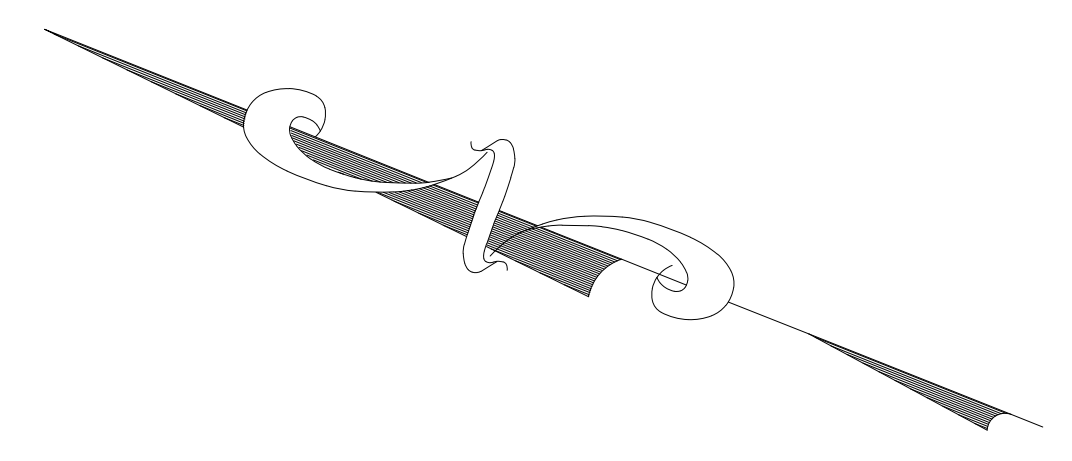
SURVEY LIMIT LINE (TYP.)

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 - GV = GAS VALVE
 - TW = TOP OF WALL
 - BW = BOTTOM OF WALL
 - RM = TOP OF MANHOLE
 - MTD = MANUFACTURED TREATMENT DEVICE

- EXISTING LEGEND:**
- DENOTES EXISTING CONCRETE MONUMENT
 - ⊠ DENOTES PRIOR PROPOSED CONCRETE MONUMENT UNDER PREVIOUS SUBDIVISION
 - DENOTES EXISTING CAPPED IRON PIN
 - ⊙ DENOTES EXISTING PK NAIL W/WASHER
 - ⊗ DENOTES EXISTING X CUT ON CURB
 - ⊕ EXISTING TRAFFIC SIGNAL
 - ⊘ EXISTING SIGNS
 - ⊙ EX. INLETS
 - ⊗ EX. WOODEN FENCE
 - ⊙ EXISTING SANITARY MANHOLE
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 - ⊙ EXISTING TELEPHONE MANHOLE
 - ⊙ EXISTING ELECTRIC MANHOLE
 - ⊙ EXISTING WATER VALVE
 - ⊙ EXISTING UTILITY BOX
 - ⊙ EXISTING LIGHTPOLE
 - ⊙ EXISTING FIRE HYDRANT

- EXISTING LEGEND (CONT'D):**
- EXISTING TREE
 - EXISTING SHRUB
 - EXISTING TREE LINE PER AERIAL
 - EXISTING CURB
 - EXISTING STORM DRAINAGE PIPELINE
 - EXISTING SANITARY SEWER PIPELINE
 - EXISTING CONTOUR
 - EXISTING WATER LINE
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 - EXISTING TELEPHONE
 - EXISTING CABLE
 - EXISTING ELECTRIC
 - EXISTING CABLE TV
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- PROPOSED LEGEND:**
- CONCRETE WALK
 - ASPHALT PATH
 - DECORATIVE PAVED TERRACE
 - PAINTED CROSSWALK
 - DECORATIVE PAVED CROSSWALK
 - CONCRETE CURB
 - DEPRESSED CURB
 - SIGHT TRIANGLE LINE
 - PARKING STRIPING
 - PAVEMENT HATCHING
 - HANDICAPPED PARKING
 - PARKING COUNT
 - WHEEL STOP
 - TRAFFIC SIGN
 - LIGHTED BOLLARD
 - DETECTABLE WARNING SURFACE
 - POLE-MOUNTED LIGHT
 - BOLLARD



REV.	DESCRIPTION	DATE	DFT. BY	CKD. BY

Ralph A. Petrella 11/21/2024
DATE OF SIGN.

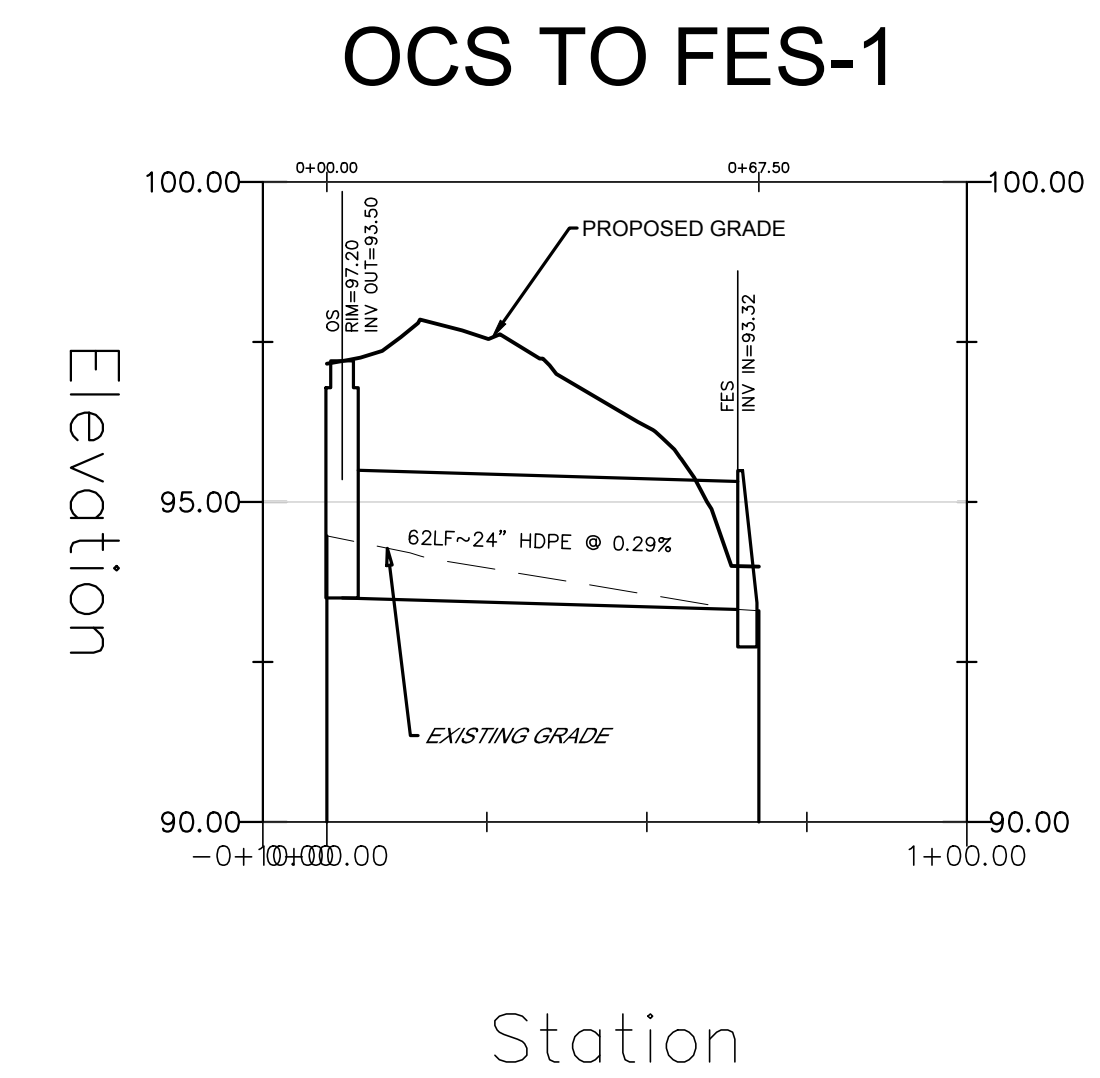
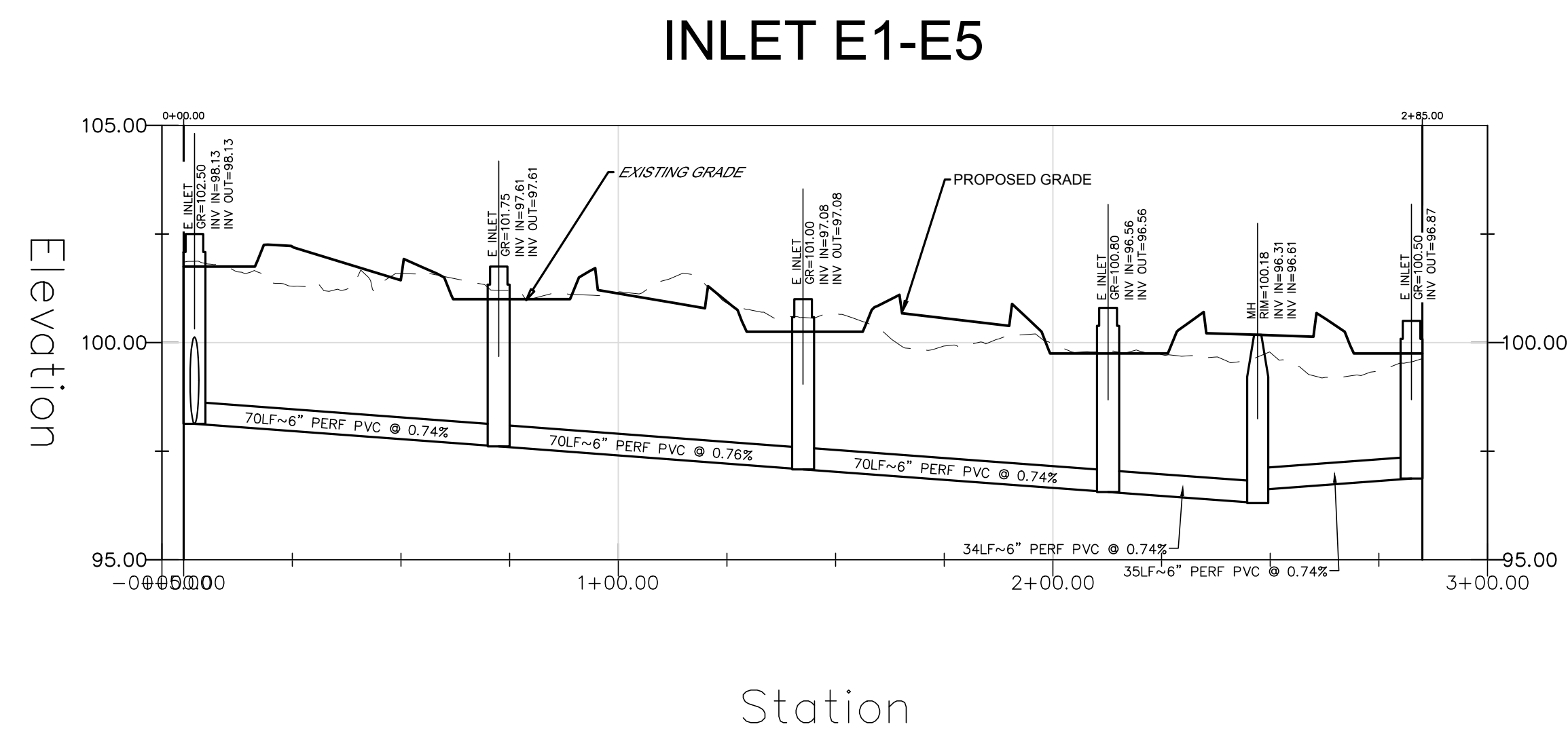
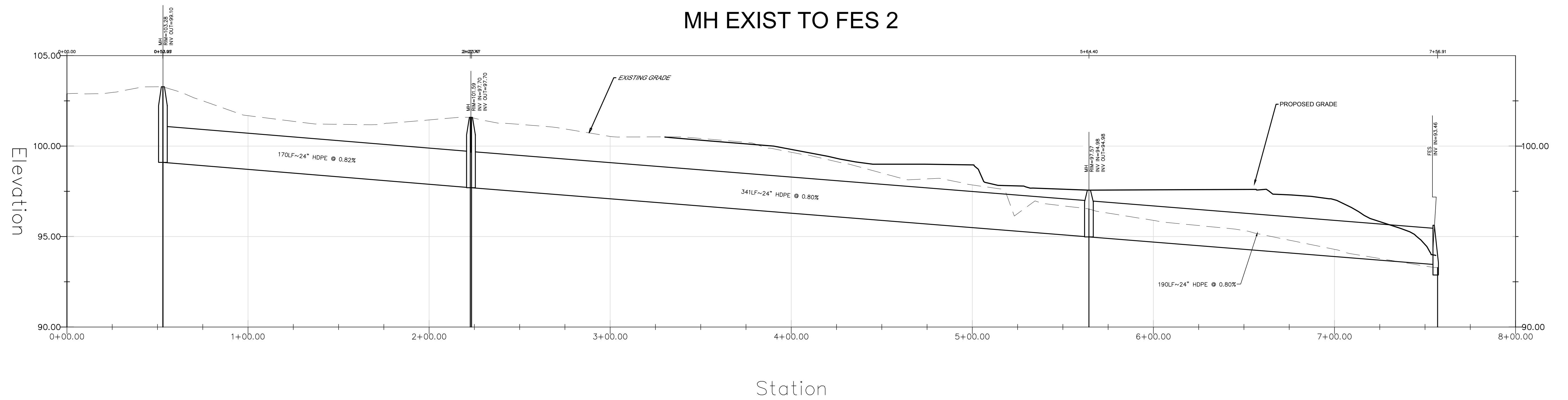
RALPH A. PETRELLA
N.J. PROFESSIONAL ENGINEER LIC. NO. GE 46160

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211 Bayberry Drive • Cape May Court House, NJ 08210 • 609-465-2600
www.vannoteharvey.com Certificate of Authorization
www.pennoni.com No. 24GA2803300

DRAINAGE & UTILITY PLAN
OF
PARKING LOT EXPANSION
PREPARED FOR
BRISTOL MYERS SQUIBB
SITUATED IN

LAWRENCE TOWNSHIP MERCER CO., N.J.
SCALE 1" = 30' DECEMBER 08, 2023

DRAWN BY: WGC/WDV	FIELD BK: XXXX	ORDER No.:	FILE No.:	SHEET No.:
DATE: 12/12/23	PAGE: XXX	XXXXX-	BRMYS23006	
CHECKED BY: RAP	DATE: 11/21/24	XXX-XX		CE-6



REV.	DESCRIPTION	DATE	DFT. BY	CKD. BY

Ralph A. Petrella
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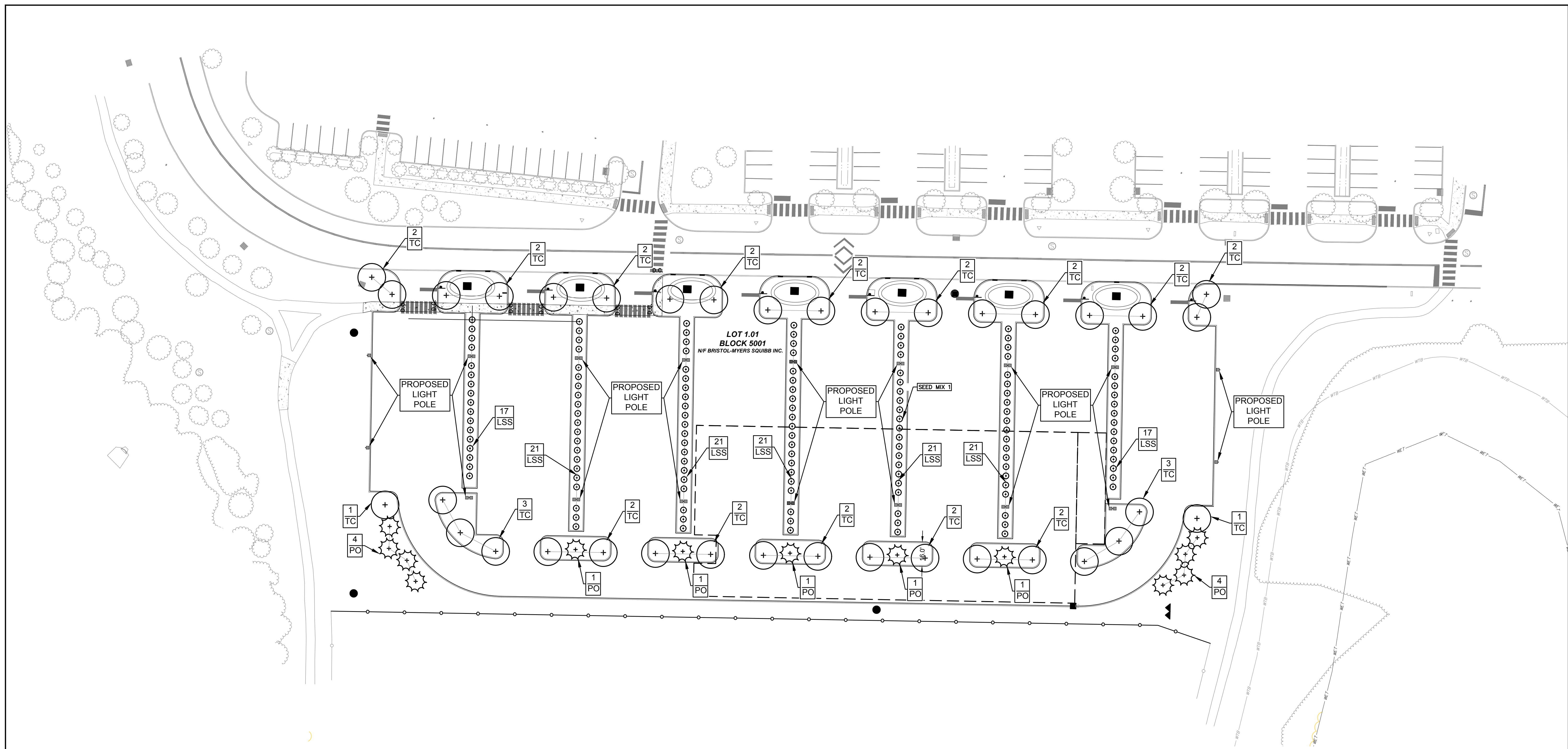
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UTILITY PROFILES
OF
PARKING LOT EXPANSION
PREPARED FOR
BRISTOL MYERS SQUIBB
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DRAWN BY: WGC/NDV DATE: 12/12/23	FIELD BK: XXXX PAGE: XXX	ORDER No.: XXXXX-XXX-XX	FILE No.: BRMYS23006	SHEET No.: CE-7
CHECKED BY: RAP DATE: XX/XX/XX				



KEY	QTY	BOTANICAL NAME	COMMON NAME	HT.	CAL.	CONT.	NATIVE	DEER RESISTANCE	SPACING	COMMON	PLANT NOTES
SHADE TREES											
TC	36	TILIA CORDATA 'GREEN SPIRE'	GREENSPIRE LITTLELEAF LINDEN	14'-16'	3"-3.5"	B&B	NO	C	AS SHOWN	COMMON	RAPID GROWER, PYRAMIDAL SHAPE, FRAGRANT SPRING FLOWERS, GOOD STREET TREE
EVERGREEN TREES											
PO	13	PINUS OMORIKA	SERBIAN SPRUCE	8'-10'	NA	B&B	NO	B	AS SHOWN		HANDSOME, PYRAMIDAL SPRUCE, BLuish-GREEN FOLIAGE.
COLUMNAR HEDGEROW TREES - PARKING LOT ISLAND											
LSS	139	LIQUIDAMBAR STYRACIFLUS 'SLENDER SILHOUETTE'	SLENDER SILHOUETTE SWEETGUM	8'-10'	1.25"	#15	YES	C	6.0' OC	FALL PLANTG. HAZARD	COLUMNAR, 8'X60" TALL, ORANGE TO BURGANDY FALL COLOR

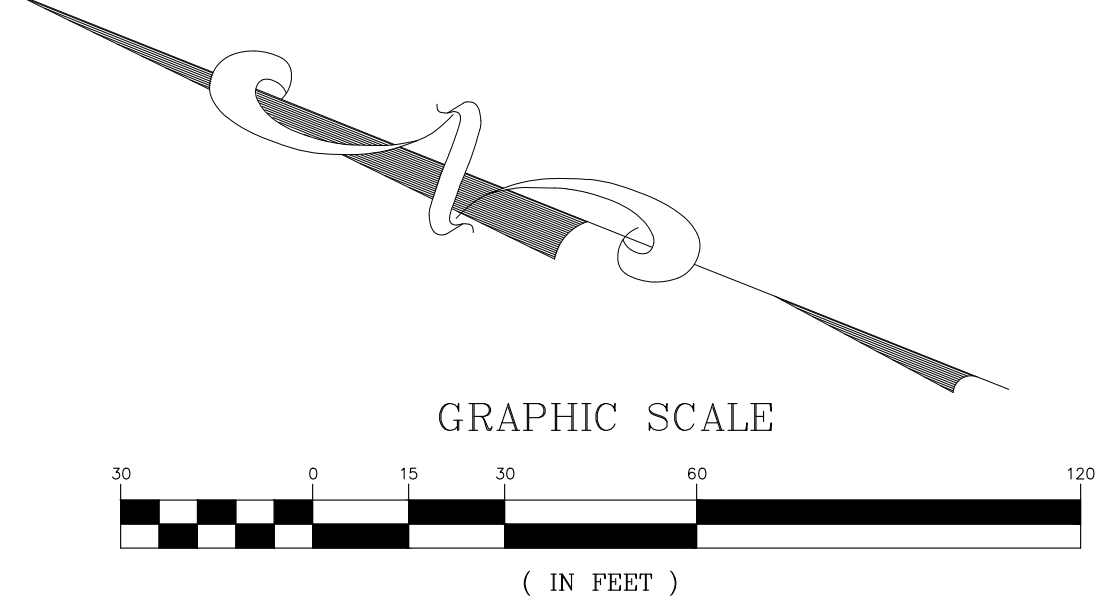
- ABBREVIATIONS:**
- FG = FINISHED GRADE
 - GR = TOP OF GRATE
 - TC = TOP OF CURB
 - D.C. = DEPRESSED CURB
 - PT = POINT OF TANGENT
 - PC = POINT OF CURVE
 - S2B = TYPE B INLET
 - TP = TOP OF PIPE
 - TS = TOP OF STRUCTURE
 - UCS = UNDERGROUND STONE STORAGE
 - C.C. = CURB CUT
 - F.F.F. = FINISHED FIRST FLOOR
 - F.B.F. = FINISHED BASEMENT FLOOR
 - RT-1 = STOP SIGN
 - R6-1 = ONE WAY SIGN
 - R4-7c = MEDIAN SIGN
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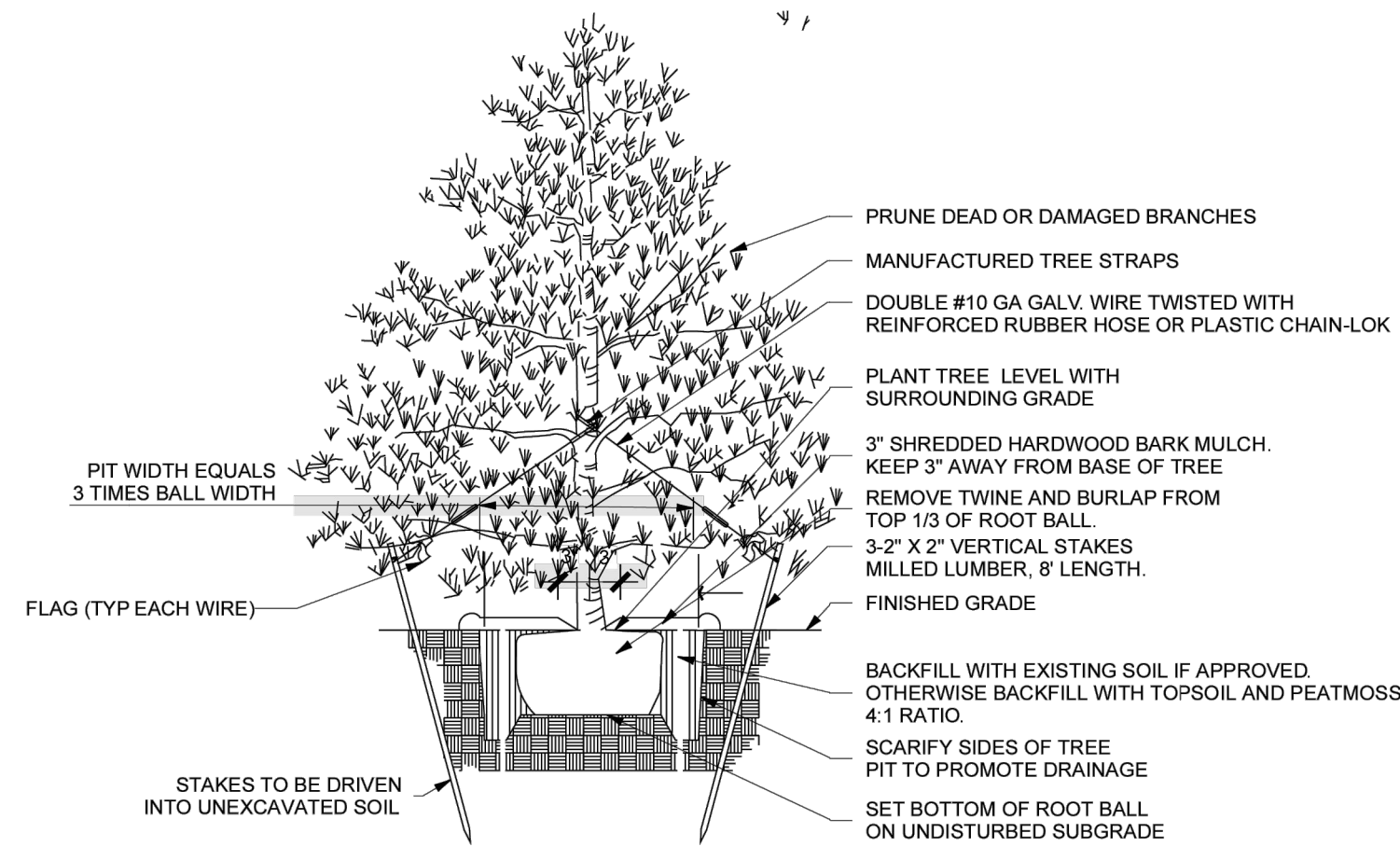
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 - BOLLARD

- LANDSCAPE LEGEND:**
- PROPOSED SHADE TREE
 - ⊙ PROPOSED EVERGREEN TREE
 - PROPOSED COLUMNAR HEDGEROW TREES



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<p>LANDSCAPE AND LIGHTING PLAN OF PARKING LOT EXPANSION PREPARED FOR BRISTOL MYERS SQUIBB SITUATED IN</p>			
<p>REV. DESCRIPTION DATE DFT. BY CKD. BY</p>		<p>11/21/2024 DATE OF SIGN.</p>	
<p><i>Ralph A. Petrella</i> RALPH A. PETRELLA N.J. PROFESSIONAL ENGINEER LIC. NO. GE 46160</p>			
<p>DRAWN BY: WGC/WOV DATE: 12/12/23</p>	<p>FIELD BK: XXXX PAGE: XXX</p>	<p>ORDER No.: XXXXX-XXX-XX FILE No.: BRMYS23006</p>	<p>SHEET No.: CE-8</p>

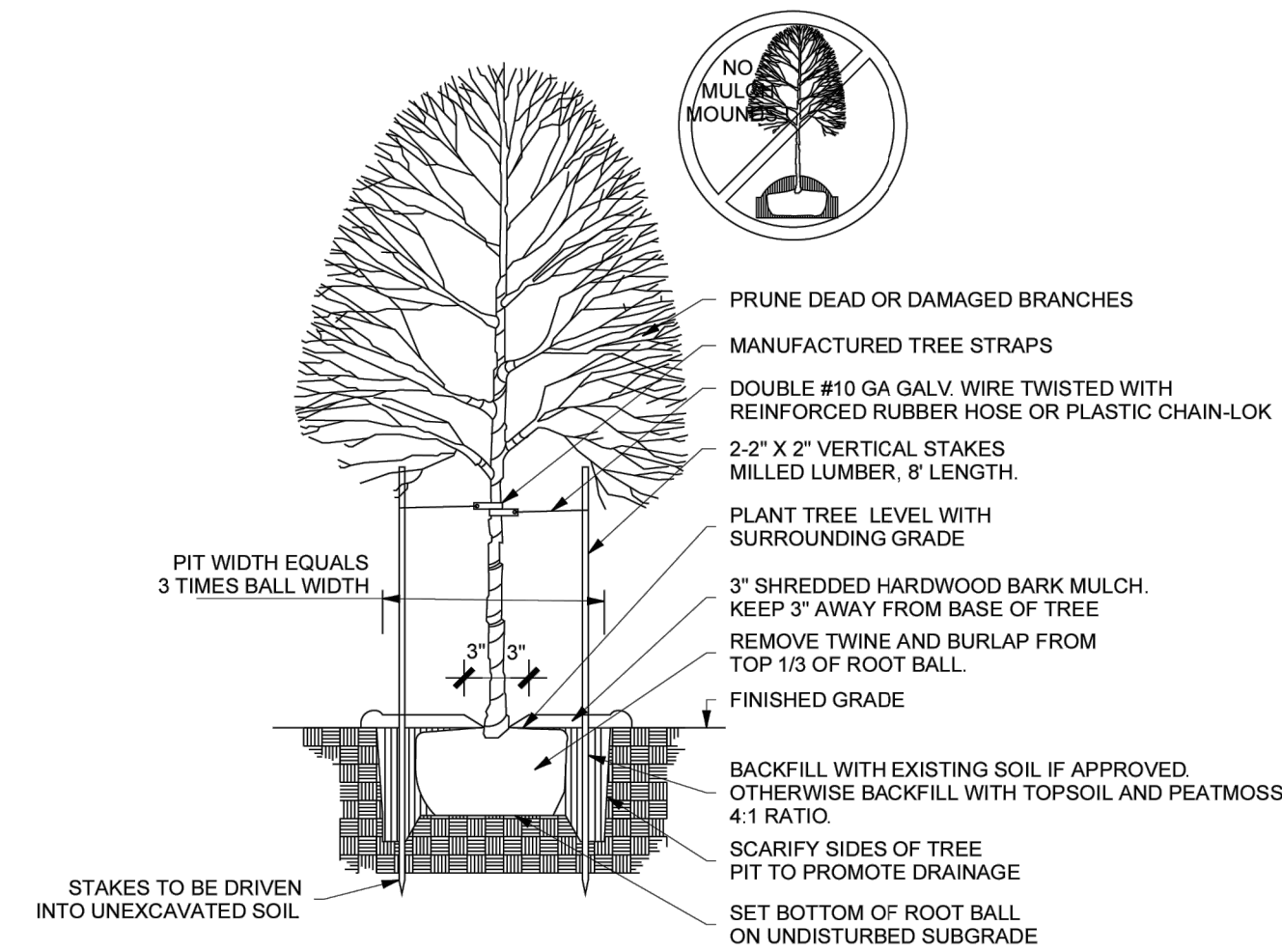


NOTES:

- 1) CUT TWINE AWAY FROM TRUNK OF TREE FOLD DOWN OR REMOVE TOP THIRD OF BURLAP. IF TREATED BURLAP, THEN REMOVE TOP THIRD. IF WIRE BASKET IS PRESENT, REMOVE TOP TWO RUGS OF BASKET (MINIMUM)
- TREES SHALL BE POSITIONED 1" ABOVE THE GRADE AT WHICH THEY GREW IN THE NURSERY. NO SOIL SHALL BE PLACED AGAINST THE TRUNK ROOT FLARE
- STAKING & GUYING REQUIRED AT THE DISCRETION OF THE OWNER

EVERGREEN TREE PLANTING DETAIL

N.T.S.

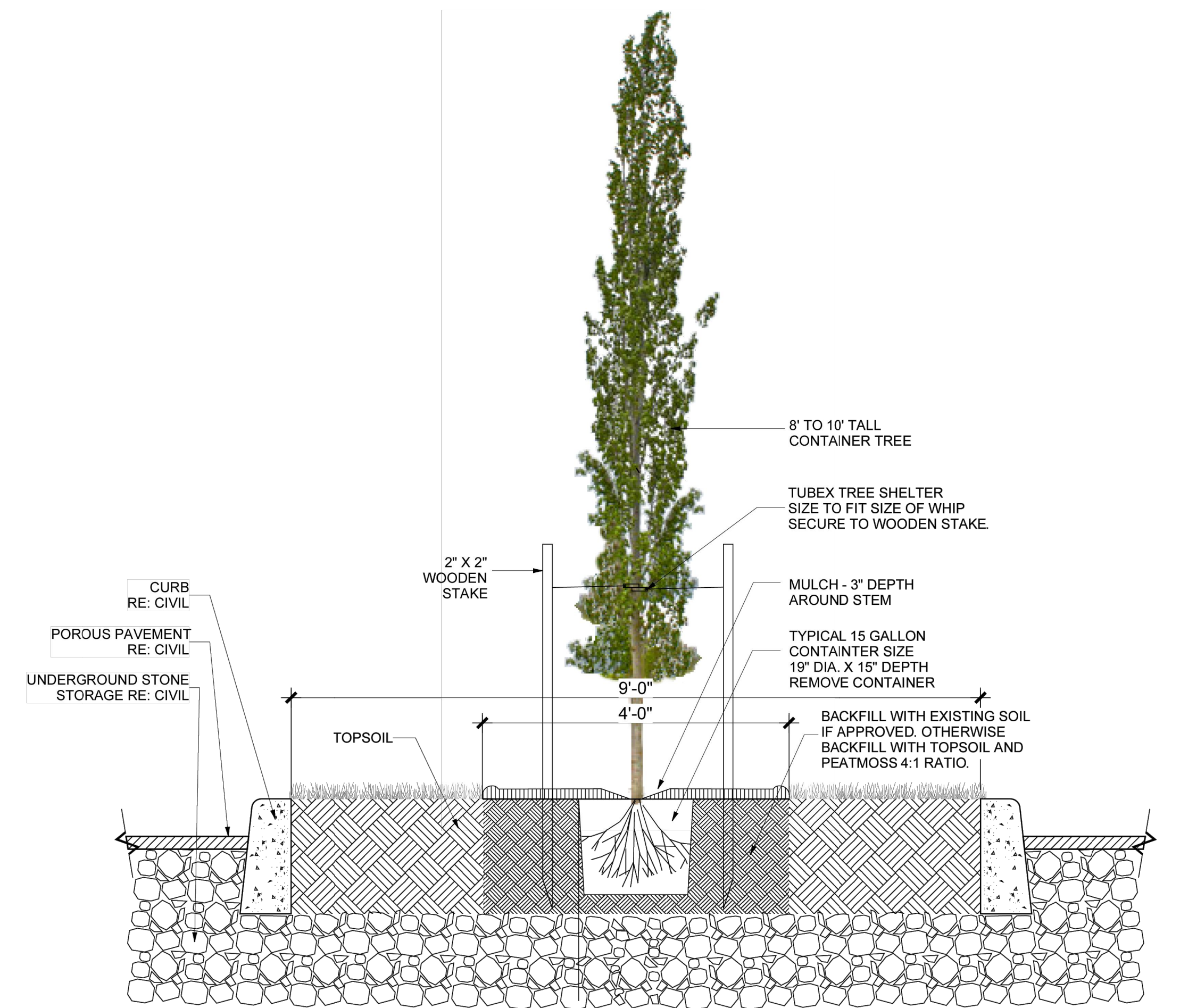


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- 3) STAKING & GUYING REQUIRED AT THE DISCRETION OF THE OWNER


DECIDUOUS TREE PLANTING DETAIL

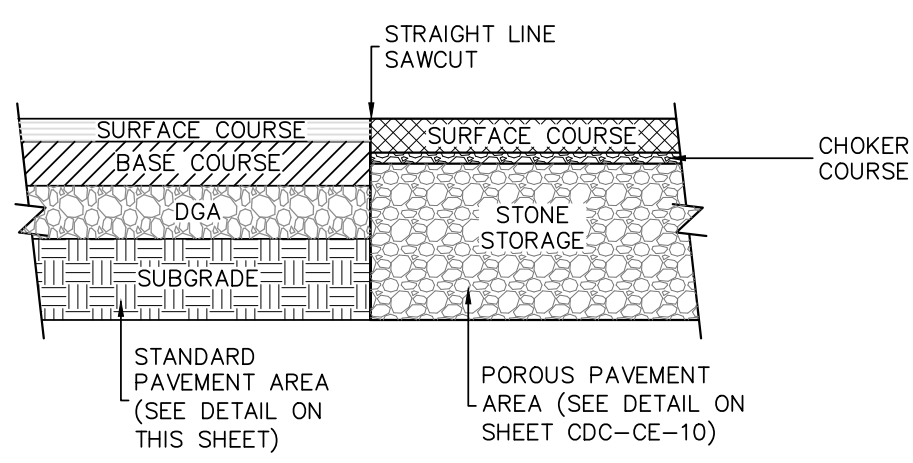
N.T.S.



HEDGEROW COLUMNAR TREE PLANTING DETAIL

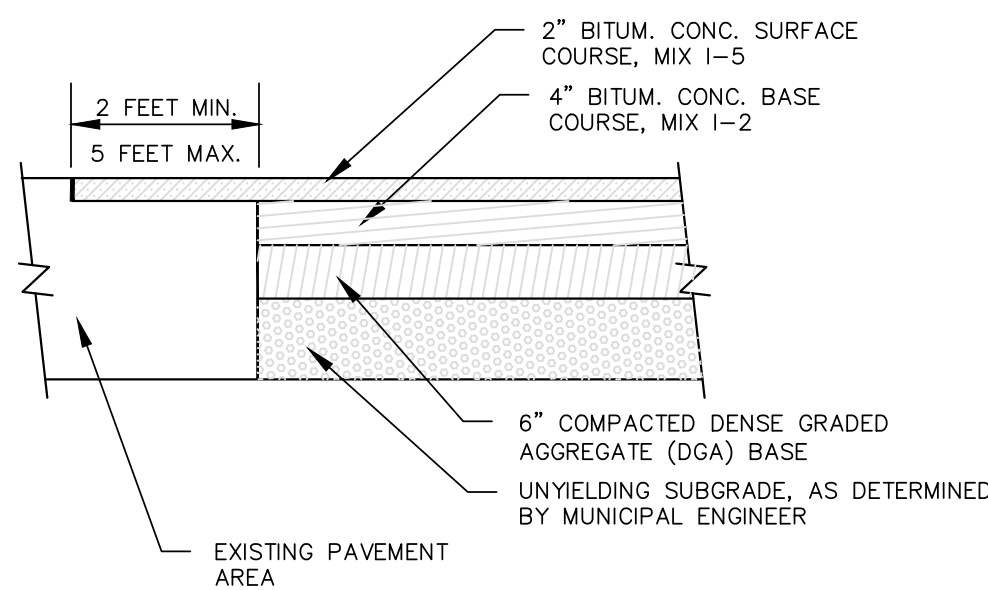
N.T.S.

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<p>LANDSCAPING DETAILS OF PARKING LOT EXPANSION PREPARED FOR BRISTOL MYERS SQUIBB SITUATED IN</p>		
<p>REV. DESCRIPTION DATE DFT. BY CKD. BY</p>		<p>LAWRENCE TOWNSHIP MERCER CO., N.J. SCALE 1" = 30' DECEMBER 08, 2023</p>
<p><i>Ralph A. Petrella</i> 11/21/2024 DATE OF SIGN.</p> <p>RALPH A. PETRELLA N.J. PROFESSIONAL ENGINEER LIC. NO. GE 46160</p>		

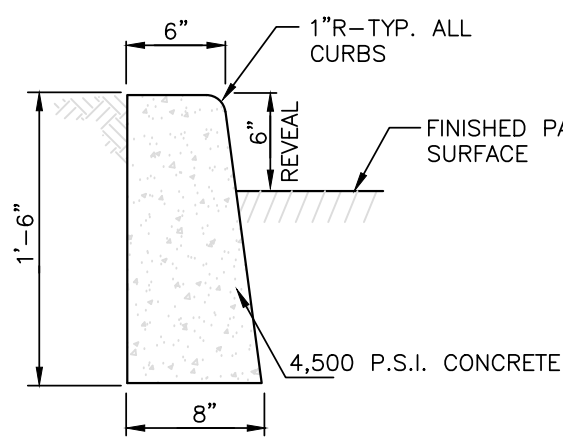


NOTE:
AT THE TIME OF CONSTRUCTION, SAWCUT ALL TRANSVERSE JOINTS, REHEAT JOINT AND SEAL.

POROUS PAVEMENT KEY JOINT
N.T.S.

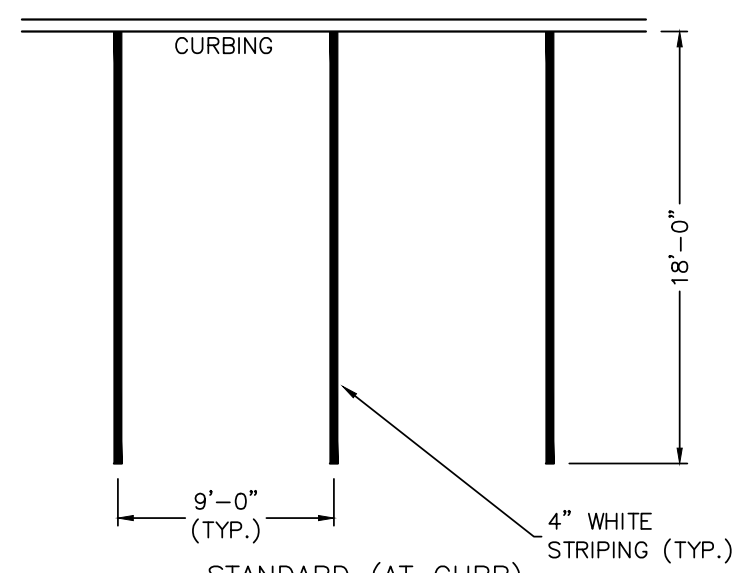


STANDARD PAVEMENT KEY JOINT
N.T.S.



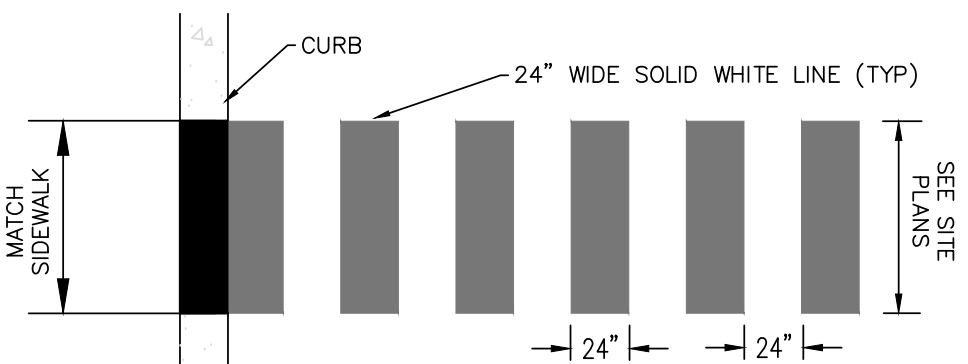
NOTES:
1. 1/2" EXPANSION JOINTS OF CELLULAR COMPRESSION MATERIAL TO BE PLACED AT 20' INTERVALS AND 1/4" PREMOLDED EXPANSION JOINTS TO BE PLACED LONGITUDINALLY ADJACENT TO ALL ADJUTING CONCRETE STRUCTURES.
2. CONSTRUCTION JOINTS TO BE PROVIDED EVERY 20', ALTERNATING WITH EXPANSION JOINTS.

CONCRETE CURB
N.T.S.



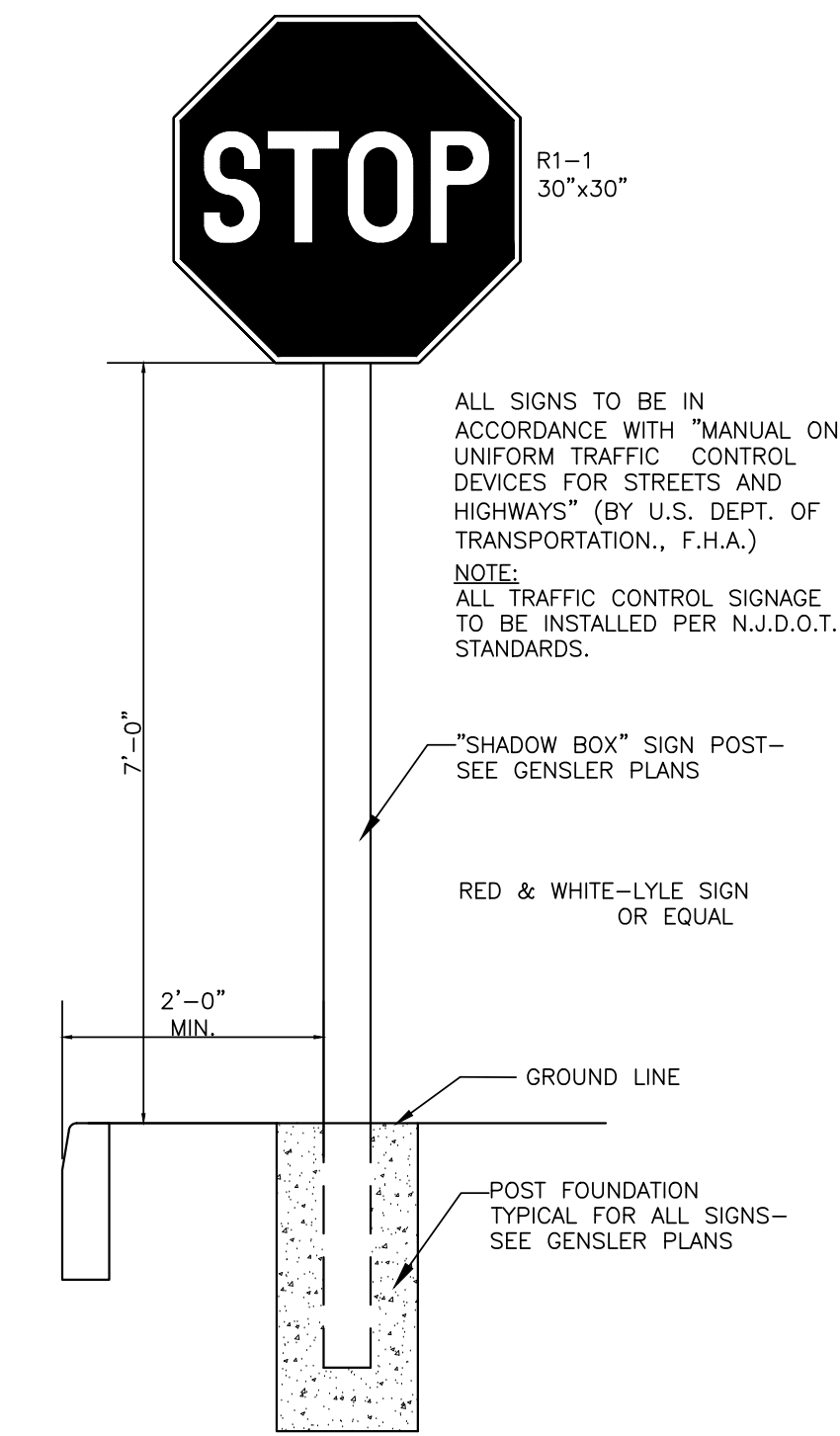
NOTE:
ALL TRAFFIC MARKINGS ARE TO BE THERMOPLASTIC.

PARKING LOT STRIPING DETAIL
N.T.S.

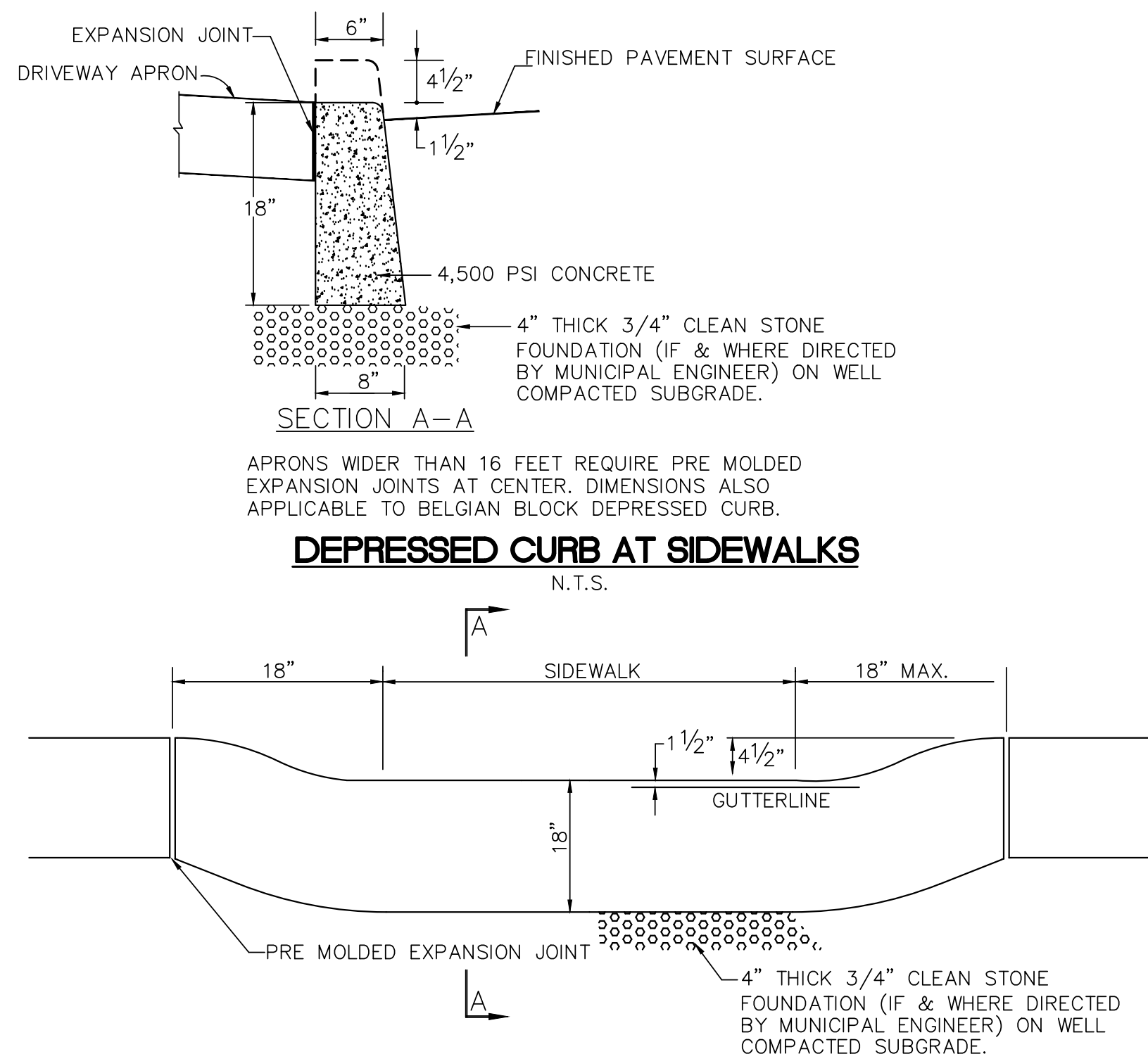


NOTES:
1. THE SPACING DESIGN SHOULD AVOID THE WHEEL PATHS.
2. ALL TRAFFIC MARKINGS ARE TO BE THERMOPLASTIC.

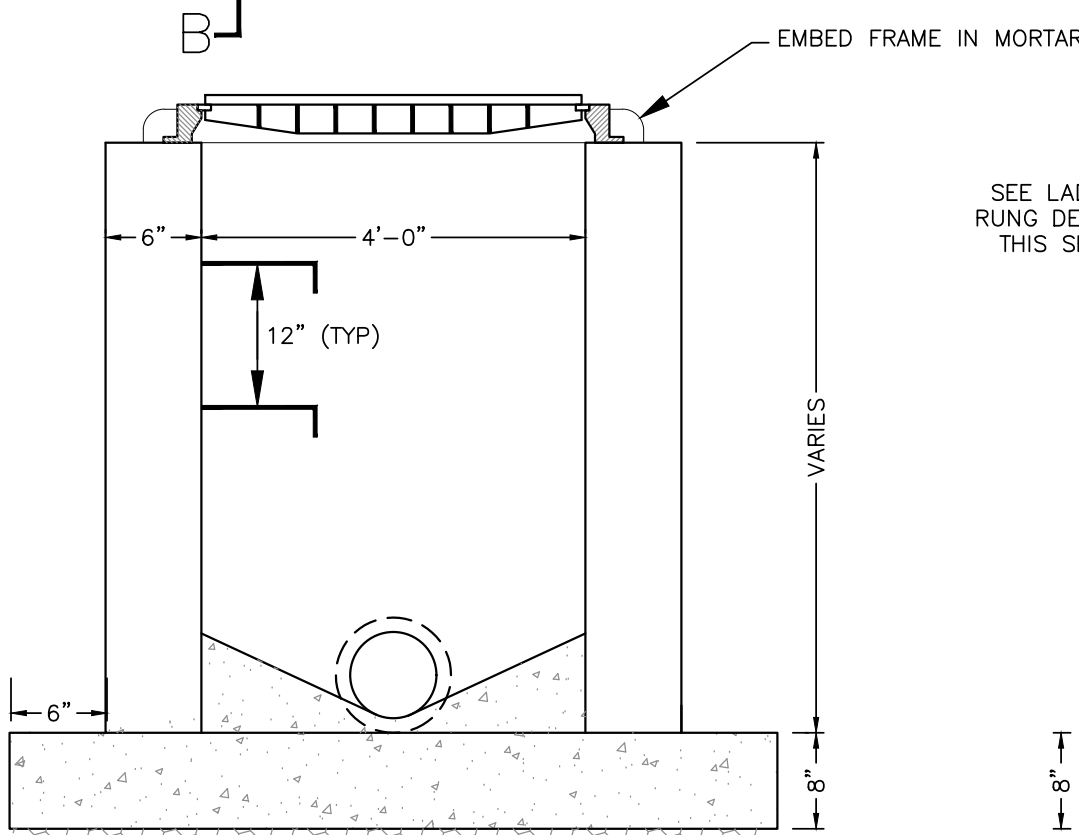
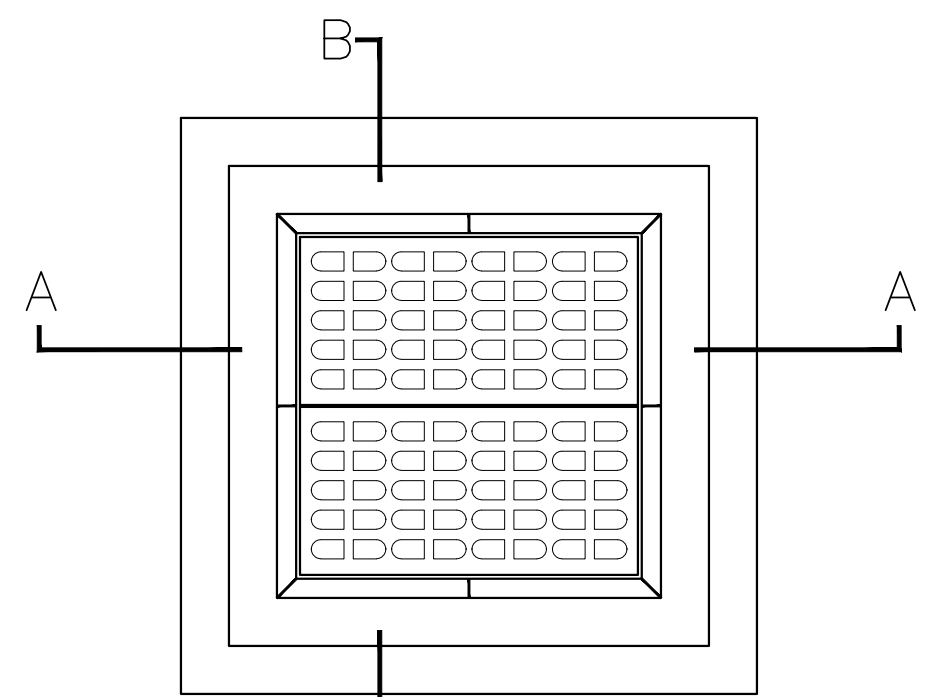
CROSSWALK STRIPING DETAIL
N.T.S.



TYPICAL SIGN MOUNTING DETAIL
N.T.S.

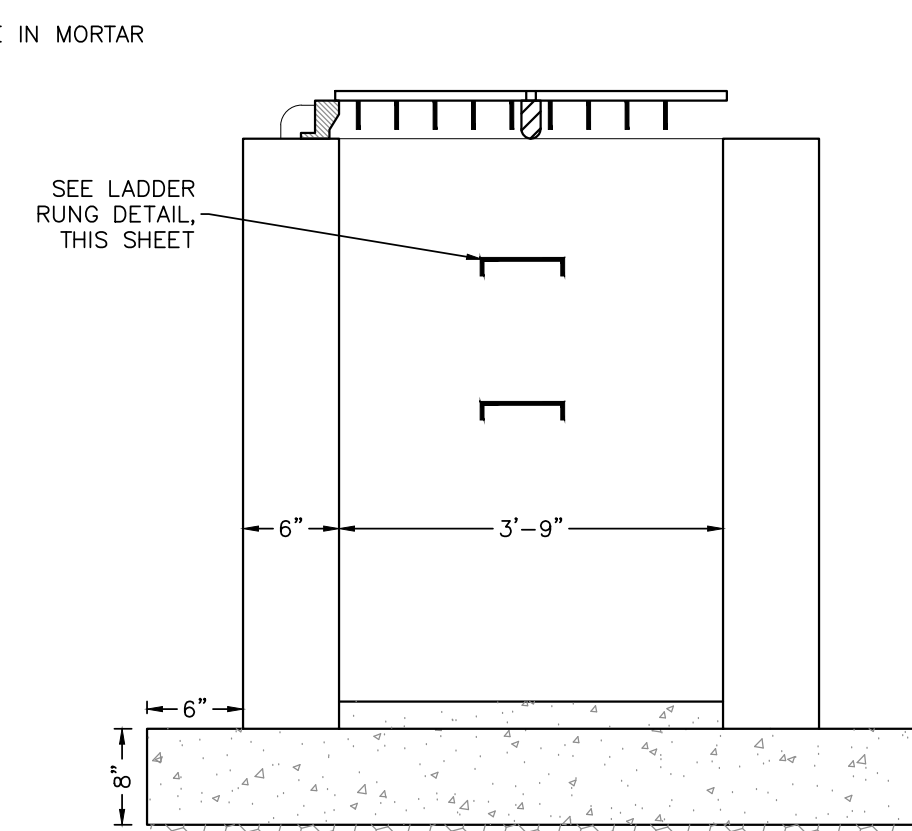


DEPRESSED CURB AT SIDEWALKS
N.T.S.

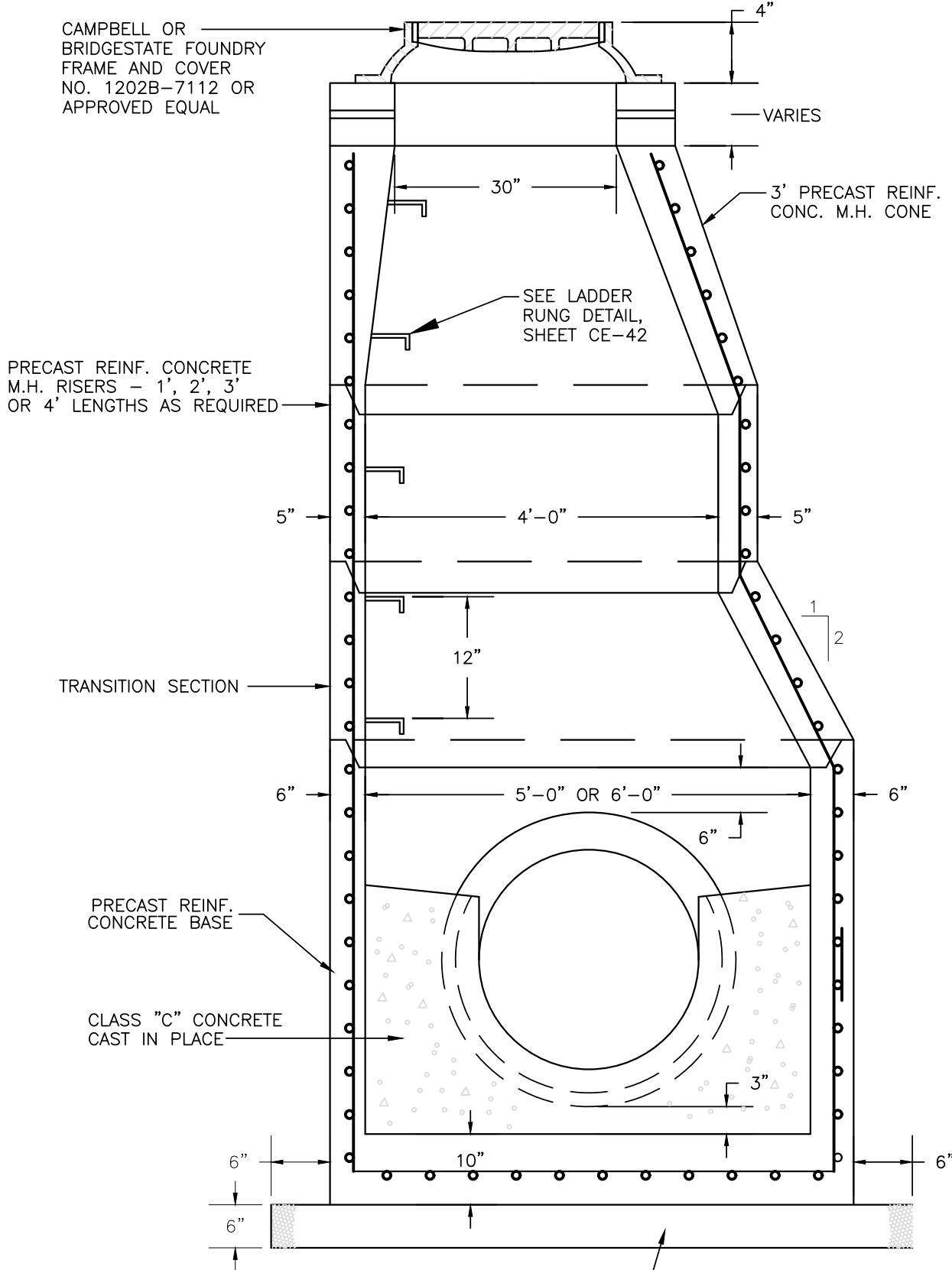


TYPE 'E' INLET
NTS

- NOTES:
1. FOOTING AND INVERT TO BE NJDOT CLASS "C" CONCRETE.
2. IF INLET IS NOT PRECAST, WALLS TO BE PLASTERED INSIDE AND OUTSIDE WITH 1/2" THICK CEMENT MORTAR.
3. CASTINGS TO INCLUDE BICYCLE SAFE GRATE, CAMPBELL OR BRIDGESTATE FOUNDRY #3425, OR APPROVED EQUAL.
4. WHEN DEPTH OF INLET EXCEEDS 8' FORM GUTTER TO INVERT, WALLS SHALL BE INCREASED TO 8" THICK, FOUNDATION INCREASED TO 12" THICK.

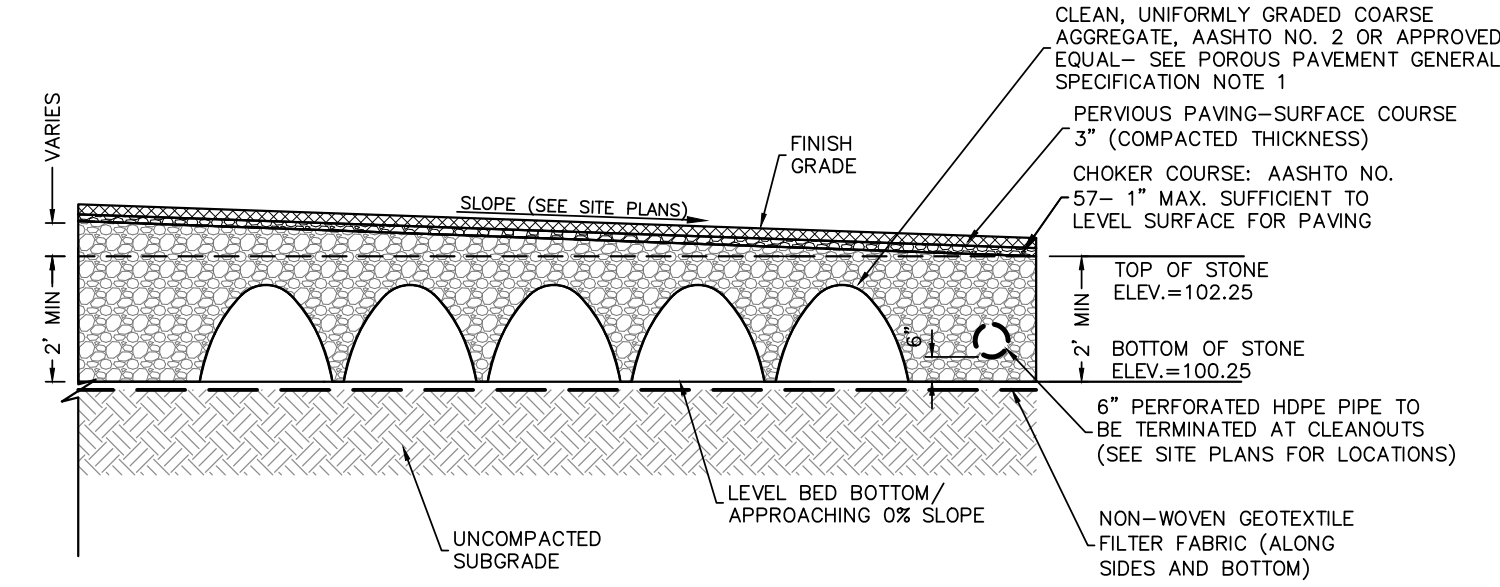


SECTION B-B



NOTES:
1. MANHOLE DIAMETER SHALL BE AS REQUIRED.
2. PROVIDE 6" THICK CONCRETE PAD UNDER ALL MANHOLES. PAD SHALL EXTEND A MINIMUM OF 6" IN ALL DIRECTIONS. IN LIEU OF THE PAD, A FLARED BASE SECTION, AS SHOWN, MAY BE PROVIDED.

PRECAST STORM SEWER MANHOLE
N.T.S.



POROUS PAVEMENT PARKING LOT SECTION WITH UNDERGROUND BASIN
NTS

- POROUS PAVEMENT CONSTRUCTION SEQUENCE**
1. THE POROUS PAVEMENT SHOULD BE INSTALLED TOWARD THE END OF THE CONSTRUCTION PERIOD, IF POSSIBLE.
2. THE EXISTING SUBGRADE UNDER THE STONE BED AREAS SHOULD NOT BE COMPACTED OR SUBJECT TO EXCESSIVE CONSTRUCTION EQUIPMENT TRAFFIC PRIOR TO GEOTEXTILE AND STONE BED PLACEMENT.
3. WHERE EROSION OF SUBGRADE HAS CAUSED ACCUMULATION OF FINE MATERIALS AND/OR SURFACE PONDING, THIS MATERIAL SHALL BE REMOVED WITH LIGHT EQUIPMENT AND THE UNDERLYING SOILS SCARIFIED TO A MINIMUM DEPTH OF 6 INCHES WITH A YORK RAKE (OR EQUIVALENT) AND LIGHT TRACTOR. ALL FINE GRADING SHALL BE DONE BY HAND. ALL FINE BED BOTTOMS SHOULD BE AT A LEVEL GRADE UNLESS SPECIFIED OTHERWISE.
4. EARTHEN BERMS/TRAFFIC ISLANDS (WHERE APPLICABLE) BETWEEN STONE BED AREAS SHOULD BE LEFT IN PLACE DURING EXCAVATION. THESE BERMS DO NOT REQUIRE COMPACTION IF PROVEN STABLE DURING CONSTRUCTION.
5. GEOTEXTILE AND STONE BED AGGREGATE SHOULD BE PLACED IMMEDIATELY AFTER APPROVAL OF SUBGRADE PREPARATION. GEOTEXTILE SHOULD BE PLACED IN ACCORDANCE WITH MANUFACTURER'S STANDARDS AND RECOMMENDATIONS. ADJACENT STRIPS OF GEOTEXTILE SHOULD OVERLAP A MINIMUM OF 16". THE GEOTEXTILE SHOULD EXTEND AT LEAST 4 FEET OUTSIDE OF BED AND FOLDED BACK ALONG THE EDGES OF THE FINISHED BED TO PREVENT RUNOFF OR SEDIMENT FROM ENTERING THE STORAGE BED. THIS EDGE STRIP SHOULD REMAIN IN PLACE UNTIL ALL BARE SOILS CONTIGUOUS TO BEDS ARE STABILIZED AND VEGETATED. EXCESS GEOTEXTILE ALONG BED EDGES CAN BE CUT BACK TO BED EDGE.
6. CLEAN (WASHED) UNIFORMLY GRADED STONE AGGREGATE (AASHTO NO. 2) SHALL BE PLACED IN THE BED IN 8-INCH LIFTS. EACH LAYER SHOULD BE LIGHTLY COMPACTED, WITH THE CONSTRUCTION EQUIPMENT KEPT OFF THE BED BOTTOM AS MUCH AS POSSIBLE. ONE PASS WITH VIBRATION IS ALLOWABLE (LOW AMPLITUDE, HIGH FREQUENCY) TO INTERLOCK AGGREGATES. CONTINUOUS VIBRATORY PASSES ARE NOT ALLOWED.
7. THE POROUS ASPHALT SHOULD BE PLACED DIRECTLY ON THE LEVELLED STONE SUBBASE IN A SINGLE 4 INCH LIFT AND COMPACTED WITH A MINIMUM OF ONE (1) PASS OF A NON-VIBRATORY, 2-AXLE ROLLER, TO A FINISHED DEPTH OF 3 INCHES. ROLLERS SHALL BE OPERATED AT A SLOW, UNIFORM SPEED NOT EXCEEDING 2 1/2 MPH. IF NECESSARY TO PREVENT ADHESION OF THE POROUS ASPHALT TO THE ROLLERS, KEEP THE WHEELS MOISTENED WITH WATER MIXED WITH A VERY SMALL AMOUNT OF DETERGENT.
8. FOLLOWING INSTALLATION OF THE POROUS ASPHALT SURFACE COURSE, THE FINISHED SURFACE SHOULD BE KEPT FREE OF TRAFFIC FOR AT LEAST 48 HOURS TO ALLOW FOR ADEQUATE CURING.
9. REMOVE AND REPLACE POROUS ASPHALT THAT BECOMES LOOSE, DAMAGE OR OTHERWISE DEFECTIVE.
10. THE FULL PERMEABILITY OF THE FINISHED PAVEMENT SURFACE SHOULD BE TESTED BY APPLICATION OF CLEAN WATER AT A RATE OF AT LEAST 5 GPM OVER THE SURFACE USING A HOSE OR OTHER DISTRIBUTION DEVICE. ALL APPLIED WATER SHOULD INFILTRATE DIRECTLY WITHOUT PUDDLE FORMATION, PONDING OR SURFACE RUNOFF.
11. THE PROPOSED POROUS PAVEMENT AREA OF THE SITE SHALL BE CORDONED OFF FROM HEAVY CONSTRUCTION EQUIPMENT AND THE STOCKPILING OF MATERIALS SHALL BE PROHIBITED.
12. DO NOT ALLOW TRAFFIC OR CONSTRUCTION EQUIPMENT ON THE POROUS ASPHALT UNTIL THE SURFACE TEMPERATURE IS LESS THAN 170°F.

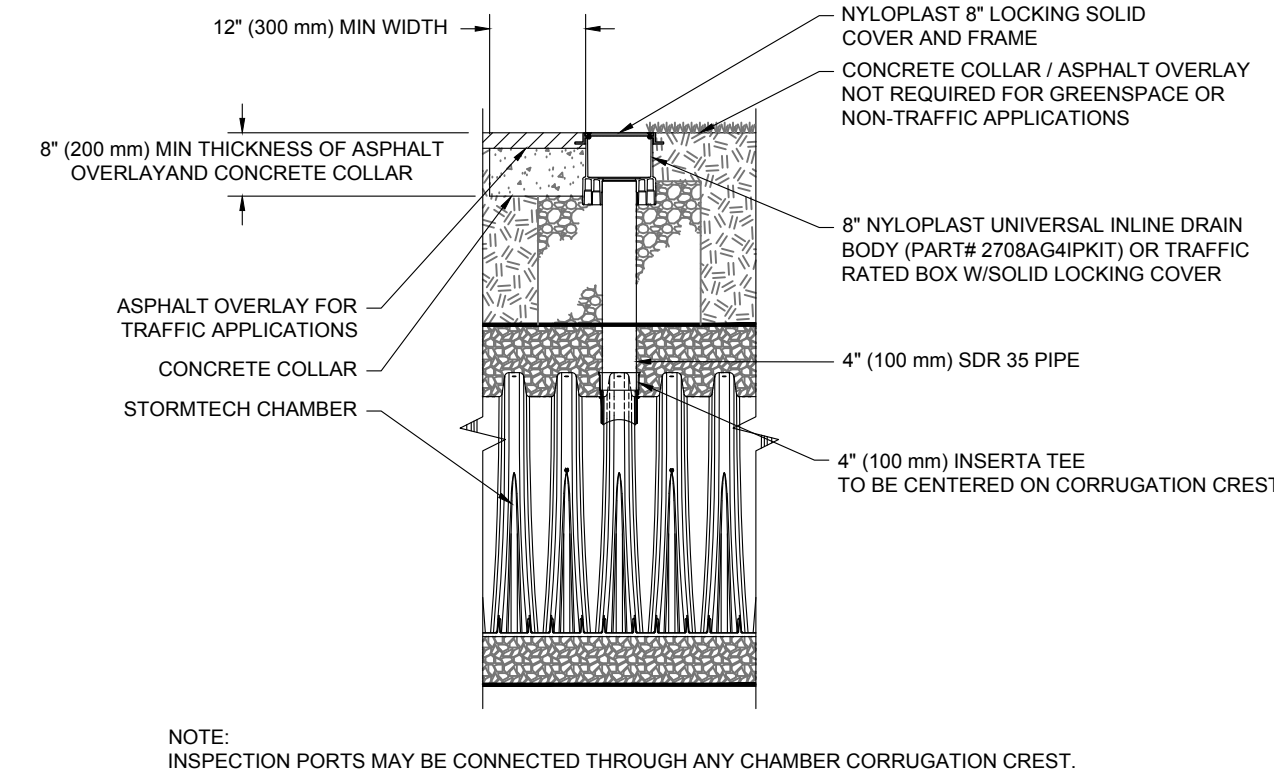
- POROUS PAVEMENT GENERAL SPECIFICATIONS**
1. STONE FOR INFILTRATION BEDS SHALL BE 2-INCH TO 1-INCH UNIFORMLY GRADED COARSE AGGREGATE, WITH A WASH LOSS OF NO MORE THAN 0.5% AASHTO SIZE NUMBER 2 PER AASHTO SPECIFICATIONS OR APPROVED EQUIVALENT, PART 1, 19TH ED., 1998, OR LATER AND SHALL HAVE Voids 40% AS MEASURED BY ASTM-C29. CHOKER BASE COURSE AGGREGATE FOR BEDS SHALL BE 3/8 INCH TO 3/4 INCH UNIFORMLY GRADED COARSE AGGREGATE AASHTO SIZE NUMBER 57 PER TABLE 4, AASHTO SPECIFICATIONS, PART 1, 13TH ED., 1998 (P. 47).
2. NON-WOVEN GEOTEXTILE SHALL CONSIST OF NEEDED NONWOVEN POLYPROPYLENE FIBERS AND MEET THE FOLLOWING PROPERTIES:
A. GRAB TENSILE STRENGTH (ASTM-D4632) > 120 LBS
B. MULLEN BURST STRENGTH (ASTM-D3786) > 225 PS
C. FLOW RATE (ASTM-D4919) > 95 GAL/MIN/FT SQ.
D. UV RESISTANCE AFTER 500 HRS (ASTM-D4355) > 70%
E. HEAT-SET OR HEAT-CALENDARED FABRICS ARE NOT PERMITTED.
ACCEPTABLE TYPES INCLUDE MIRAFI 140 N, GEOTEX 451, OR APPROVED OTHERS.
3. PIPE (WHERE APPLICABLE) SHALL BE CONTINUOUSLY PERFORATED, SMOOTH INTERIOR, WITH A MINIMUM INSIDE DIAMETER OF 6-INCHES. HIGH-DENSITY POLYETHYLENE (HDPE) PIPE SHALL MEET AASHTO M252, TYPE S OR AASHTO M294, TYPE S.
4. STORM DRAIN INLETS AND STRUCTURES
A. CONCRETE CONSTRUCTION: CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT NJDOT SPECIFICATIONS.
B. PRECAST CONCRETE INLETS AND MANHOLES: PRECAST CONCRETE INLETS MAY BE SUBSTITUTED FOR CAST-IN-PLACE STRUCTURES AND SHALL BE CONSTRUCTED AS SPECIFIED FOR CAST-IN-PLACE.
C. ALL PVC CATCH BASINS/CLEANOUTS/INLINE DRAINS SHALL HAVE H-20 RATED GRATES.
D. STEEL REINFORCING BARS OVER THE TOP OF THE OUTLET STRUCTURE, WHERE SPECIFIED, SHALL CONFORM TO ASTM A615, GRADES 60 AND 40.
5. PERVIOUS BITUMINOUS ASPHALT
BITUMINOUS SURFACE COURSE FOR PERVIOUS PAVING SHOULD BE THREE (3) INCHES THICK (COMPACTED THICKNESS) WITH A BITUMINOUS MIX OF 5.75% TO 6.75% BY WEIGHT DRY AGGREGATE. IN ACCORDANCE WITH ASTM D6930, DRAIN DOWN OF THE BINDER SHALL BE NO GREATER THAN 0.3%. IF MORE ABSORPTIVE AGGREGATES, SUCH AS LIMESTONE, ARE USED IN THE MIX, THEN THE AMOUNT OF BITUMEN IS TO BE BASED ON THE TESTING PROCEDURES OUTLINED IN THE NATIONAL ASPHALT PAVEMENT ASSOCIATION'S INFORMATION SERIES 131 - "PERVIOUS ASPHALT PAVEMENTS" (2003) OR NJDOT EQUIVALENT.
USE HEAT ASPHALT BINDER MODIFIED WITH AN ELASTOMERIC POLYMER TO PRODUCE A BINDER MEETING THE REQUIREMENTS OF PG 64E-22 AS SPECIFIED IN AASHTO MP-1. THE ELASTOMER POLYMER SHALL BE STYRENE-BUTADIENE-STYRENE (SBS), OR APPROVED EQUAL, APPLIED AT A RATE OF 3% BY WEIGHT OF THE TOTAL BINDER. THE COMPOSITE MATERIALS SHALL BE THOROUGHLY BLENDED AT THE ASPHALT REFINERY OR TERMINAL PRIOR TO BEING LOADED INTO THE TRANSPORT VEHICLE. THE POLYMER MODIFIED ASPHALT BINDER SHALL BE HEAT AND STORAGE STABLE.
AGGREGATE SHALL BE MINIMUM 90% CRUSHED MATERIAL AND HAVE A GRADATION OF:
U.S. STANDARD SIEVE SIZE PERCENT PASSING 1/2 (12.5 MM) 100% 3/8 (9.5 MM) 80%-100% 4 (4.75 MM) 50%-50% 8 (2.36 MM) 5%-15% 16 (1.18 MM) 7%-13% 30 (0.60 MM) 0%-4% 200 (0.075 MM) 0%-5%. ADD HYDRATED LIME AT A DOSAGE RATE OF 1.0% BY WEIGHT OF THE TOTAL DRY AGGREGATE TO MIXES CONTAINING GRANITE. HYDRATED LIME SHALL MEET THE REQUIREMENTS OF ASTM C 977. THE ADDITIVE MUST BE ABLE TO PREVENT THE SEPARATION OF THE ASPHALT BINDER FROM THE AGGREGATE AND ACHIEVE A REQUIRED TENSILE STRENGTH RATIO (TSR) OF AT LEAST 80% ON THE ASPHALT MIX WHEN TESTED IN ACCORDANCE WITH AASHTO T 283. THE ASPHALTIC MIX SHALL BE TESTED FOR ITS RESISTANCE TO STRIPPING BY WATER IN ACCORDANCE WITH ASTM D-1664. IF THE ESTIMATED COATING AREA IS NOT ABOVE 95%, ANTI-STRIPPING AGENTS SHALL BE ADDED TO THE ASPHALT.
PERVIOUS PAVEMENT SHALL NOT BE INSTALLED ON WET SURFACES OR WHEN THE AMBIENT AIR TEMPERATURE IS 50 DEGREES FAHRENHEIT OR LOWER. THE TEMPERATURE OF THE BITUMINOUS MIX SHALL BE BETWEEN 300 DEGREES FAHRENHEIT AND 350 DEGREES FAHRENHEIT (BASED ON THE RECOMMENDATIONS OF THE ASPHALT SUPPLIER).

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REV. DESCRIPTION DATE DFT.BY CKD.BY		CONSTRUCTION DETAILS OF PARKING LOT EXPANSION PREPARED FOR BRISTOL MYERS SQUIBB SITUATED IN		
Ralph A. Petrella N.J. PROFESSIONAL ENGINEER LIC. NO. GE 46160		LAWRENCE TOWNSHIP SCALE 1" = 30' DRAWN BY:WGC/WDV DATE 12/12/23 CHECKED BY: RAP DATE 11/21/24		
11/21/2024 DATE OF SIGN.		MERCER CO., N.J. DECEMBER 08, 2023 FILE No. BRMYS23006 SHEET No. CE-10		

ACCEPTABLE FILL MATERIALS: STORMTECH SC-310 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.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145* A-1, A-2-4, A-3 OR AASHTO M43* 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETES	AASHTO M43* 3, 357, 4, 467, 5, 56, 57
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETES	AASHTO M43* 3, 357, 4, 467, 5, 56, 57

- PLEASE NOTE:
- 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".
 - STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 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 DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
 - 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.
 - WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



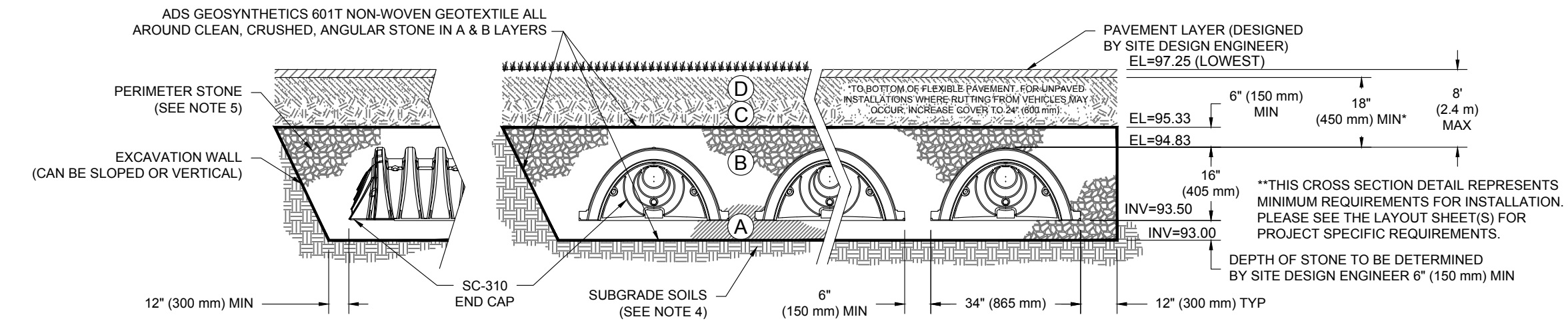
4" PVC INSPECTION PORT DETAIL (SC SERIES CHAMBER)

INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- INSPECTION PORTS (IF PRESENT)
 - REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
 - REMOVE AND CLEAN FLEXTORM FILTER IF INSTALLED
 - USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 - LOWER A CAMERA INTO ISOLATOR ROW PLUS 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.
- B. ALL ISOLATOR PLUS ROWS
- REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
 - USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS 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 PLUS 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

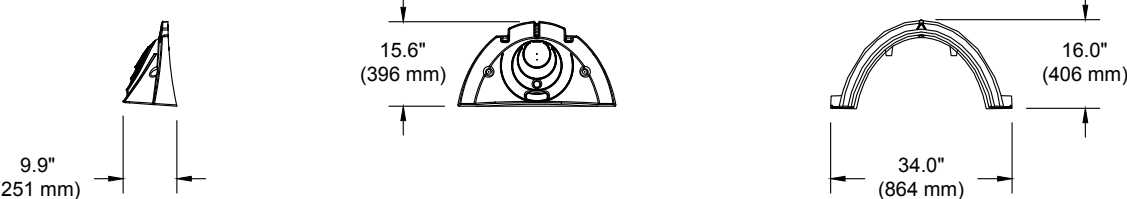
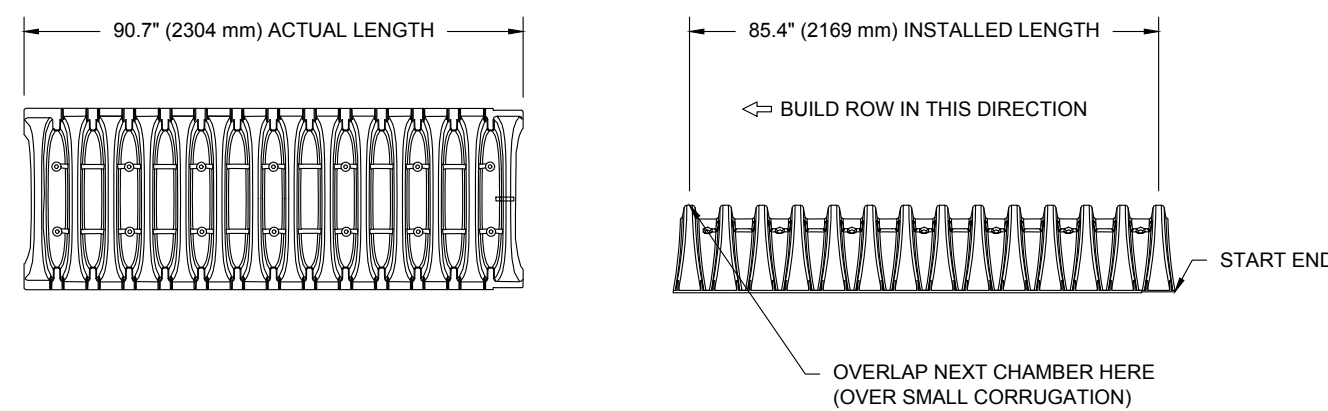
- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION, ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



NOTES:

- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2922 (POLETHYLENE) OR ASTM F2418 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- SC-310 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- 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.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 400 LBS/FT². THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

SC-310 TECHNICAL SPECIFICATION



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	34.0" X 16.0" X 85.4"	(864 mm X 406 mm X 2169 mm)
CHAMBER STORAGE	14.3 CUBIC FEET	(0.42 m ³)
MINIMUM INSTALLED STORAGE*	31.0 CUBIC FEET	(0.88 m ³)
WEIGHT	35.0 lbs.	(16.8 kg)

*ASSUMES 6" (152 mm) ABOVE, BELOW, AND BETWEEN CHAMBERS

PRE-FAB STUB AT BOTTOM OF END CAP WITH FLAMP END WITH "BR"
PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
PRE-CORED END CAPS END WITH "PC"

PART #	STUB	A	B	C
SC310EP0E0T / SC310EP0E0TPC	6" (150 mm)	9.6" (244 mm)	5.8" (147 mm)	---
SC310EP0E0B / SC310EP0E0BPC	---	---	---	0.5" (13 mm)
SC310EP0E0T / SC310EP0E0TPC	8" (200 mm)	11.9" (302 mm)	3.5" (89 mm)	---
SC310EP0E0B / SC310EP0E0BPC	---	---	---	0.6" (15 mm)
SC310EP0E10T / SC310EP0E10TPC	10" (250 mm)	12.7" (323 mm)	1.4" (36 mm)	---
SC310EP0E10B / SC310EP0E10BPC	---	---	---	0.7" (18 mm)
SC310ECEZ*	12" (300 mm)	13.5" (343 mm)	---	0.9" (23 mm)

ALL STUBS, EXCEPT FOR THE SC310ECEZ ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2954.

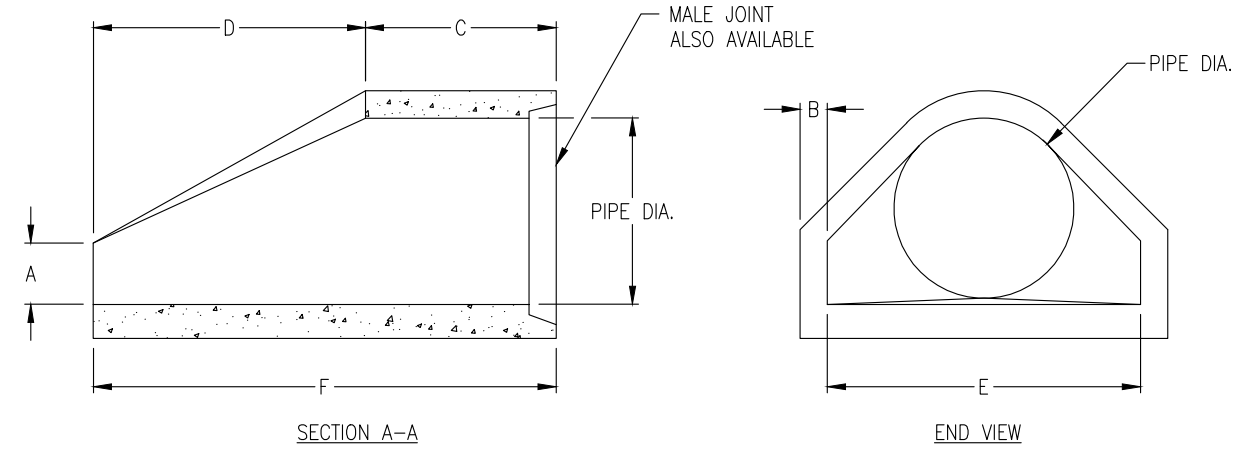
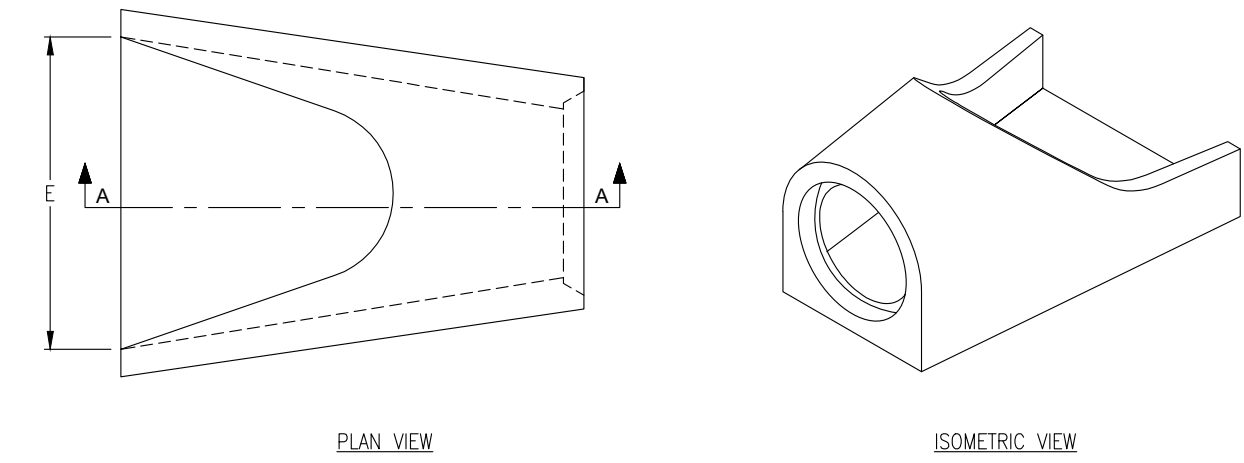
* FOR THE SC310ECEZ THE 12" (300 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 0.25" (6 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

CDOT-14

REINFORCEMENT SHALL BE EQUAL TO THAT REQUIRED FOR CLASS III RCP OF CORRESPONDING DIAMETER PER CALTRANS SPECIFICATIONS.

PIPE DIA.	A	B	C	D	E	F	WEIGHTS LBS.
12"	24"	24"	13"	24"	24"	37"	400
18"	36"	36"	13"	36"	36"	40"	900
24"	48"	48"	16"	48"	48"	56"	1,400
30"	60"	60"	18"	60"	60"	72"	2,300
36"	72"	72"	18"	72"	72"	81"	4,100
42"	84"	84"	18"	84"	84"	91"	5,200
48"	96"	96"	18"	96"	96"	99"	6,500
54"	108"	108"	18"	108"	108"	107"	7,400

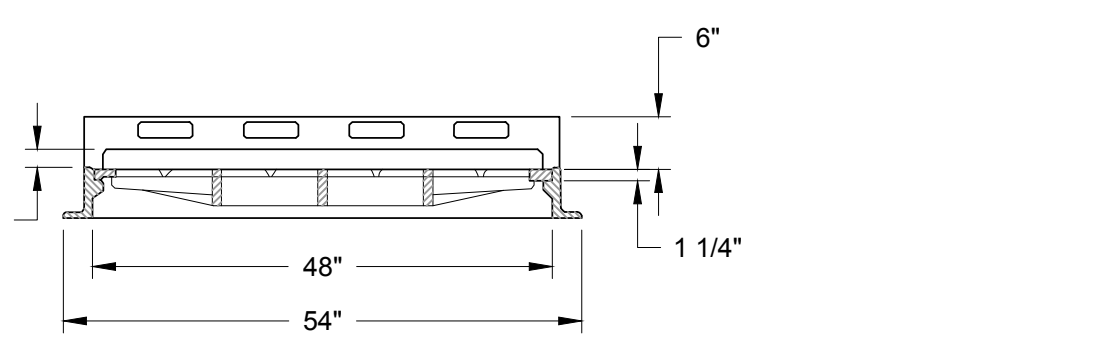
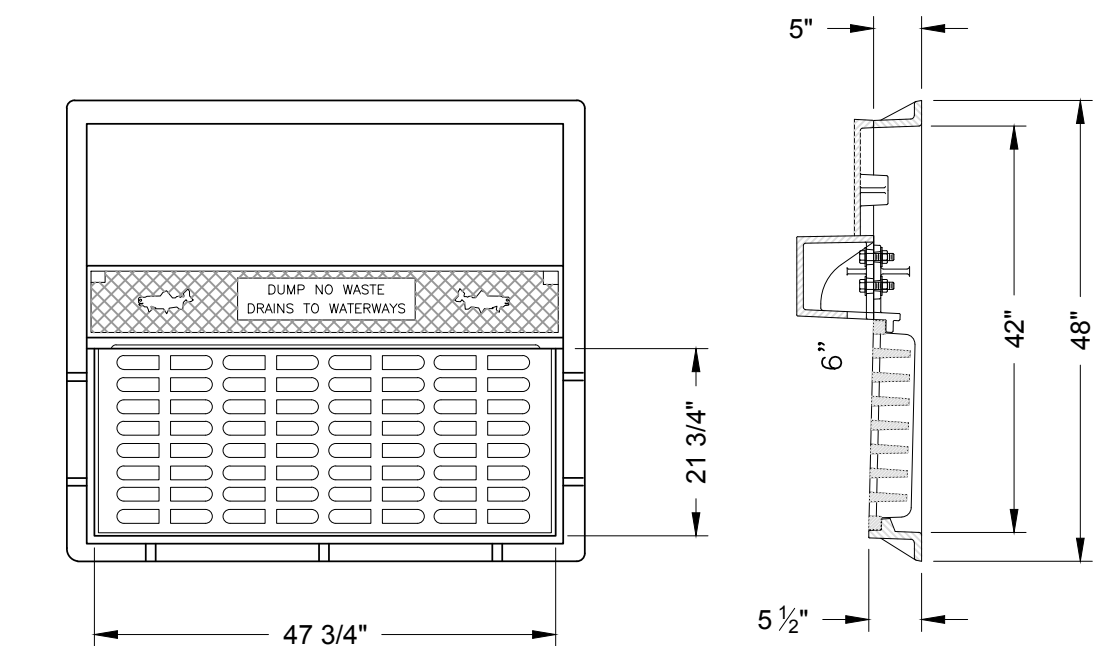


FLARED END SECTIONS

N.T.S.

OUTLET STRUCTURE DETAIL

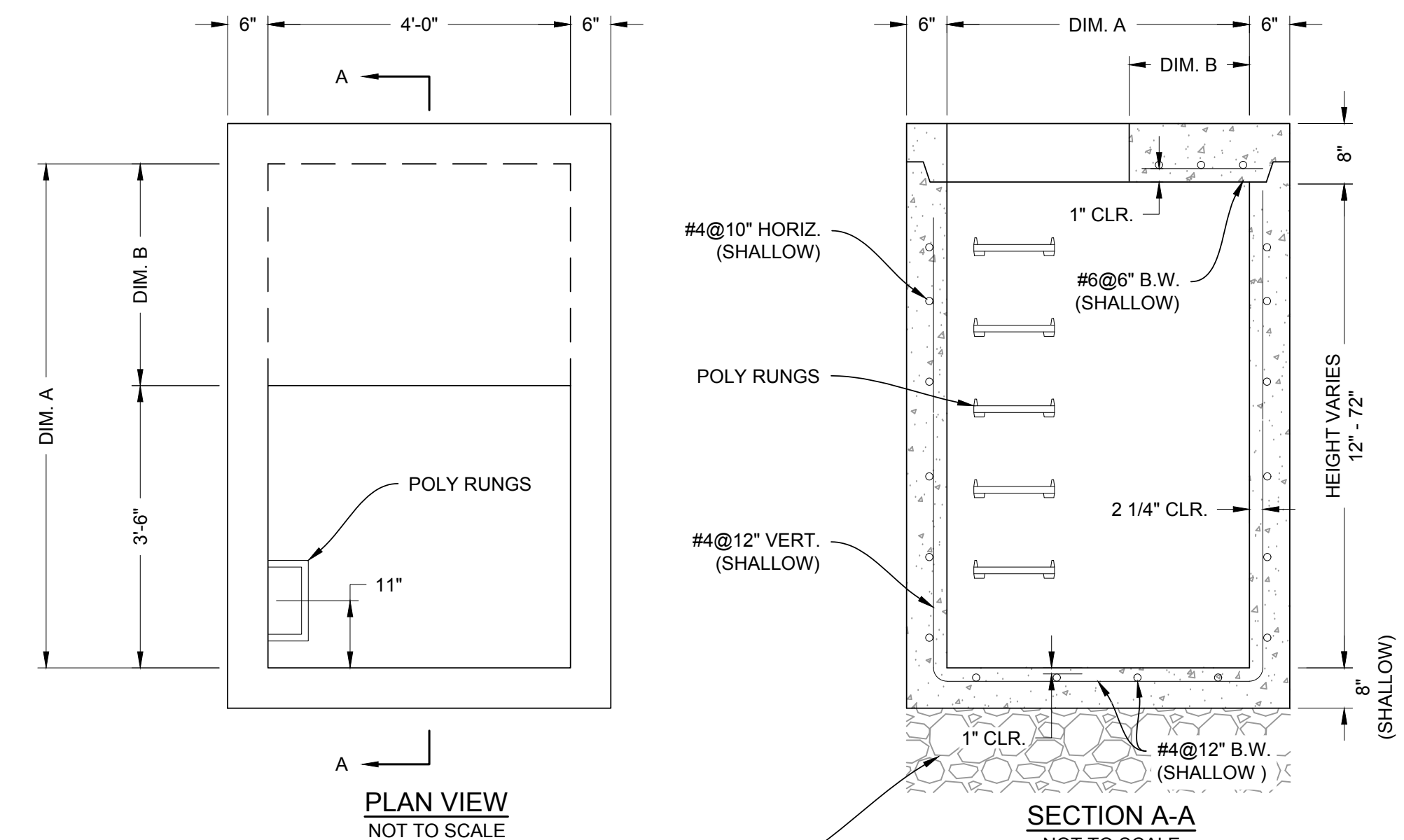
NOT TO SCALE



PATTERN No. 2618 AS
MANUFACTURED BY CAMPBELL
BRIDGE STATE FOUNDRY COMPANY
(TYPE "N" - ECO CURB PIECE)

NJDOT TYPE "B" CURB INLET WITH BICYCLE SAFE GRATE

NOT TO SCALE



STONE BASE TO FIRM STABLE AND NOW YIELDING SUBGRADE AT LEAST 12" THICK (NJDOT COARSE AGGREGATE SIZE #57) - EXTEND 12" BEYOND STRUCTURE IN ALL DIRECTIONS

STATE OF NEW JERSEY

DOT C.B. TYPE	DIM. A	DIM. B
B1 & E1	4'-6"	1'-0"
B2	5'-6"	2'-0"

NOTE:

- THE ANNOTATION (SHALLOW) REFERS TO THE FOLLOWING:
- (SHALLOW) - INLET STRUCTURES WITH A MAXIMUM DEPTH OF 10FT.
 - THE CONCRETE IS DESIGNED TO OBTAIN A STRENGTH OF 4,000 PSI IN 28 DAYS.
 - THE REINFORCING STEEL HAS A YIELD STRENGTH OF 60,000 PSI.
 - THE INLET SHALL BE DESIGNED TO MEET ASTM C-913, "PRECAST CONCRETE WATER AND WASTEWATER STRUCTURES."
 - THE REINFORCED CONCRETE WALLS AND BASE SLAB ARE DESIGNED FOR A MAXIMUM DEPTH OF 10 FT (DEPTH = F.G. TO TOP OF BASE SLAB).
 - STRUCTURE IS DESIGNED TO MEET NJDOT SPECS.
 - CONTRACTOR SHALL SUBMIT SHOP DRAWINGS DETAILING STRUCTURE DIMENSIONS, REINFORCING, AND BUOYANCY CALCULATIONS FOR APPROVAL.

NJDOT TYPE "B2" INLET

NOT TO SCALE

<p>van note-harvey division of pennoni 103 College Road East • Princeton, NJ 08540 • 609-987-2323 211 Bayberry Drive • Cape May Court House, NJ 08210 • 609-465-2600</p> <p>www.vannoteharvey.com www.pennoni.com</p> <p>Certificate of Authorization No. 24GA2803300</p>		<p>CONSTRUCTION DETAILS OF PARKING LOT EXPANSION PREPARED FOR BRISTOL MYERS SQUIBB SITUATED IN</p>	
<p>REV. DESCRIPTION</p>	<p>DATE</p>	<p>DFT. BY</p>	<p>CHK. BY</p>
<p><i>Ralph A. Petrella</i></p>			
<p>RALPH A. PETRELLA N.J. PROFESSIONAL ENGINEER LIC. NO. GE 46160</p>			
<p>LAWRENCE TOWNSHIP SCALE 1" = 30'</p>		<p>MERCER CO., N.J. DECEMBER 08, 2023</p>	
<p>DRAWN BY: WGC/MOV DATE: 12/12/23</p>	<p>FIELD BK PAGE XXX</p>	<p>ORDER No. XXXX- XXX-XX</p>	<p>FILE No. BRMYS23006</p>
<p>CHECKED BY: RAP DATE: 11/21/24</p>	<p>DATE OF SIGN: 11/21/2024</p>	<p>SHEET No. CE-11</p>	<p>DATE OF SIGN: 11/21/2024</p>