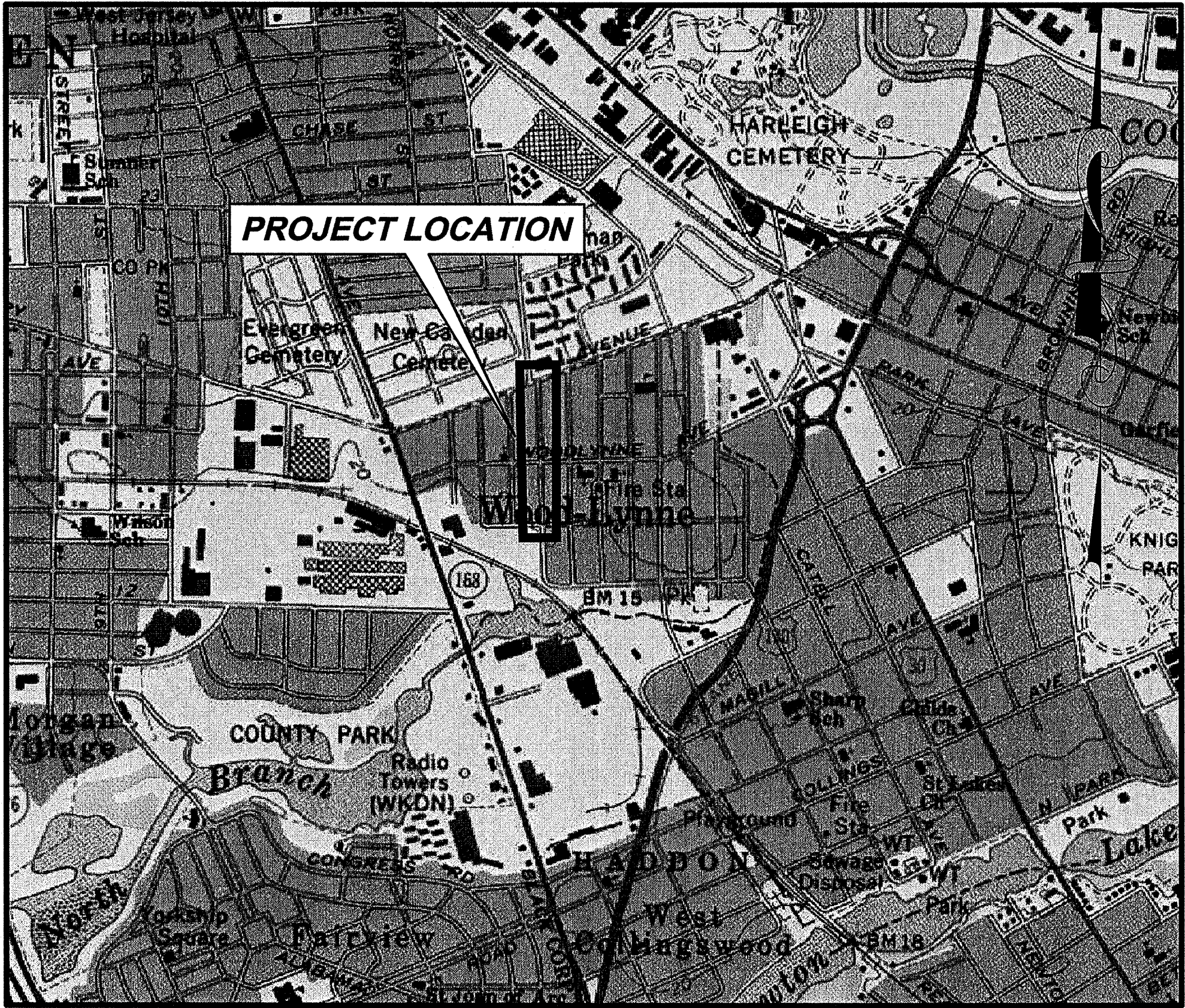


FY 2009 N.J.D.O.T. TRUST FUND RECONSTRUCTION OF PARKER AVENUE CAMDEN COUNTY CDBG PROGRAM YEAR 31 FUNDING



CAMDEN QUADRANGLE
1" = 1,000'

NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, 2007 EDITION AS AMENDED TO DATE AND AS MODIFIED BY THE SUPPLEMENTAL SPECIFICATIONS THERETO TO GOVERN.

NOTE:

BEFORE STARTING WORK, THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AND OTHER INTERESTED PARTIES OF THE SCHEDULE AND STARTING DATE. TRAFFIC CONTROL MUST BE MARKED BY THE CONTRACTOR, AND THE UTILITIES PROTECTED AS REQUIRED BY THE UTILITY COMPANIES.

HIGH VOLTAGE PROXIMITY ACT

THE CONTRACTOR IS NOTIFIED THAT ALL PROVISIONS OF THE HIGH-VOLTAGE PROXIMITY ACT, P.L. 1948, c. 249 AS AMENDED THROUGH MAY 20, 1987 SHALL BE STRICTLY ADHERED TO. THE CONTRACTOR SHALL ALSO ADHERE TO ALL PROVISIONS OF PART 1926.550, SUBPART N OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF DECEMBER, 1970. PARTICULAR ATTENTION IS DIRECTED TO THE PROVISIONS OF THE ABOVE ACT REQUIRING WARNING SIGNS, NOTIFICATION TO POWER COMPANY AND RESPONSIBILITY FOR SAFEGUARDS AND ALSO PROHIBITED ACTIVITY.

A COPY OF THE HIGH VOLTAGE PROXIMITY ACT IS AVAILABLE IN THE OFFICE OF THE COUNTY ENGINEER OR MAY BE OBTAINED FROM THE NEW JERSEY DEPARTMENT OF LABOR, DIVISION OF WORKPLACE STANDARDS, OFFICE OF SAFETY COMPLIANCE, CN386, TRENTON, N.J. 08625-0386.

BOROUGH OF WOODLYNNE CAMDEN COUNTY, NEW JERSEY



BACH Associates, PC
ENGINEERS • ARCHITECTS • PLANNERS

304 White Horse Pike
Haddon Heights, New Jersey 08035

Tel 856-546-8611
Fax 856-546-8612

www.BachDesignGroup.com

Index of Drawings:

C-1	COVER SHEET AND INDEX OF DRAWINGS
C-2	NOTES, LEGENDS, & QUANTITIES
CP-1	PLAN & PROFILE PARKER AVENUE STA. 10+00 TO 16+50
CP-2	PLAN & PROFILE PARKER AVENUE STA. 16+50 TO 22+00
CP-3	GRADING PLAN & PROFILE PARKER AVENUE STA. 10+00 TO 16+50
CP-4	GRADING PLAN & PROFILE PARKER AVENUE STA. 16+50 TO 22+00
CP-5	CONSTRUCTION DETAILS
CP-6	TRAFFIC CONTROL PLAN



BACH Associates, PC
ENGINEERS • ARCHITECTS • PLANNERS

304 White Horse Pike
Haddon Heights, New Jersey 08035
Tel: 856-546-8611
Fax: 856-546-8612
www.BachDesignGroup.com

SEALS:



STEVEN M. BACH, PE, RA, PP, CME
NJ PROFESSIONAL ENGINEER No. GE 41507
NJ REGISTERED ARCHITECT No. AI 14872
NJ PROFESSIONAL PLANNER No. LI 05557

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

PROJECT:

FY 2009 N.J.D.O.T. TRUST FUND
RECONSTRUCTION OF
PARKER AVENUE
CAMDEN COUNTY CDBG PROGRAM
YEAR 31 FUNDING
BOROUGH OF WOODLYNNE
CAMDEN COUNTY, NEW JERSEY

ALL DOCUMENTS PREPARED BY BACH ASSOCIATES, PC ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SERVICE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY BACH ASSOCIATES, PC FOR THE SPECIFIC PURPOSES INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO BACH ASSOCIATES, PC AND OWNER SHALL INDemnIFY AND HOLD HARMLESS BACH ASSOCIATES, PC FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

REVISIONS		
NO.	DESCRIPTION	DATE

DRAWING TITLE:

**COVER SHEET
&
INDEX OF
DRAWINGS**

JOB NO: WDLN2008-4	DESIGNED BY: SRD
DATE: 03/18/09	DRAWN BY: ATS
SCALE: 1"=30'	CHECKED BY: BS

DRAWING NUMBER:

C-1

STANDARD LEGEND

ITEM	DESCRIPTION	EXISTING	PROPOSED	ITEM	DESCRIPTION	EXISTING	PROPOSED
UTILITIES	SANITARY SEWER (DRAWN TO SIZE 12"Ø AND LARGER)			SURVEY	CROWS FEET		
	WATER MAIN				MONUMENT		
	GAS MAIN				D.H. - DRILL HOLE		
	TELEPHONE CONDUIT				P.K. - P.C. NAIL		
	ELECTRIC CONDUIT				STAKE		
	FORCE MAIN (SIZE LABELED)				BASELINES		
	FIBER OPTIC CABLE				TWP., CITY, COUNTY LINE		
	ELECTRIC CONDUIT, HIGHWAY				PROPERTY LINES		
	POWER LINE OVERHEAD			LANDSCAPING	DECIDUOUS TREES(SIZE, KIND)		
	CURB STOP (WATER SHUT-OFF)				SHRUBS		
	WATER METER				EVERGREENS		
	WATER VALVE				TREE LINE		
	WATER GATE VALVE				HEDGES		
	GAS GATE VALVE (GAS SHUT-OFF)				WOOD STOCKADE FENCE		
	BLOW-OFF VALVE				CHAIN LINK/ WIRE FENCE		
	SEWER VENT				WIRE ROPE GUARD FENCE		
	CLEANOUT				BORING LOCATION		
	WATER HYDRANT				MONITORING WELL LOCATION		
	MANHOLES			ENVIRONMENTAL	GPR/GIS CONTROL POINT		
DRAINAGE	"B" OR "E" INLET				SAMPLE LOCATION		
	"A" INLET				TEST PIT LOCATION		
	"B" OR "E" DOUBLE INLET				FRESHWATER WETLAND FLAGS		
	CITY INLET				FRESHWATER WETLANDS LINES		
	R.C. FLARED END SECTION				FRESHWATER WETLANDS BUFFER		
	HEADWALL				EXCAVATION/TEST PIT LIMIT LINE		
	HEADWALL W/INGS				PHOTO LOCATIONS		
	HEADWALL W/INGS & APRON				SPOT GRADE		
	DRAINAGE FLOW				CONTOUR		
	EDGE OF PAVING (CONCRETE AND BITUMINOUS)			ROADWAY	DITCH		
ROADWAY	CURB (SIZE, SLOPE, OR VERTICAL)				SWALE		
	PAVEMENT/SIDEWALK/DRIVEWAY				CONCRETE VERTICAL CURB		
	RIGHT OF WAY LINES ACCESS PERMITTED				CONCRETE SIDEWALK		
	NO ACCESS				STORM SEWER		
	BRIDGE (PLAN VIEW)				SANITARY SEWERS		
	RAIL ROAD				PARKING SPACES		
	POLE NO. & TYPE (UTILITY, ETC.)				HANDICAPPED ACCESSIBLE SPACES		
	LIGHT POST				UTILITY POLE		
	TRAFFIC CONTROL BOX				UTILITY POLE W/GUY WIRE		
	TRAFFIC LIGHT W/MAST ARM & BASE (ELECTRIC PLAN)			SITE PLAN	LIGHT		
TRAFFIC	TRAFFIC LIGHT W/MAST ARM & BASE (TRAFFIC PLAN)				SIGN		
	SIGN (REGULATORY, WARNING, GUIDE, ETC.)				FRESHWATER WETLANDS LINE AND FLAGS		
	BEAM GUIDE RAIL				FRESHWATER WETLANDS TRANSITION AREA LIMIT LINE		
					INLET		
					TREE		
					SHRUBS		
					BENCHMARK LOCATION		
				MISCELLANEOUS	TYPICAL SECTION ARROW		
					GRADES		
					TYPICAL NORTH ARROW		

GENERAL REQUIREMENTS

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND VERIFYING EXISTING CONDITIONS, CAREFULLY STUDYING AND COMPARING THE CONTRACT DOCUMENTS PRIOR TO THE START OF CONSTRUCTION. ANY ERROR, INCONSISTENCY OR OMISSION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- LOCATION OF EXISTING UTILITIES ARE APPROXIMATE AND MUST BE VERIFIED IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.
- DETAILS AND SECTIONS ON THE DRAWINGS ARE SHOWN AT SPECIFIC LOCATIONS AND ARE INTENDED TO SHOW GENERAL REQUIREMENTS THROUGHOUT. DETAILS NOTED "TYPICAL" IMPLY ALL CONDITIONS TREATED SIMILARLY. MODIFICATIONS TO BE MADE BY CONTRACTOR TO ACCOMMODATE SITE VARIATIONS.
- THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE SAFETY AND CONSTRUCTION PROCEDURES, TECHNIQUES, OR THE FAILURE OF THE CONTRACTOR TO CARRY OUT THE WORK IN ACCORDANCE WITH THE DRAWINGS, SPECIFICATIONS, OR THE REQUIRED CODES.
- ALL CONSTRUCTION MATERIALS, RESTORATION AND METHODS OF INSTALLATION SHALL CONFORM TO THE 2007 NJDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OR THE CONTRACT SPECIFICATIONS, WHICHEVER REQUIREMENTS ARE THE MOST STRINGENT.
- INSPECTION OF OR FAILURE TO INSPECT ANY MATERIALS OR WORKMANSHIP BY THE OWNER SHALL IN NO WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES TO PERFORM THE WORK IN ACCORDANCE WITH APPLICABLE PLANS, SPECIFICATIONS, AND LAWS.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES OPERATING WITHIN THE CONSTRUCTION AREA, AND AT HIS OWN EXPENSE, VERIFY THE LOCATION, SIZE, AND ELEVATIONS OF ANY UTILITIES PRIOR TO CONSTRUCTION.
- AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL BACKFILL HIS TRENCH AND PROTECT THE PUBLIC FROM WORK AREA. NO OPEN EXCAVATIONS SHALL BE PERMITTED DURING NON CONSTRUCTION HOURS.
- ROADWAYS AND PARKING AREAS SHALL BE SWEEPED CLEAN AT THE END OF EACH WORKING DAY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING PAVING, CURB, SIDEWALK, TOPSOILING, SOODINGS, FERTILIZING AND SEEDING AT ALL AREAS DISTURBED BY THE CONSTRUCTION ACTIVITIES.
- ALL PAVED, CONCRETE, AND STONE AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO A CONDITION AT LEAST EQUAL TO THAT WHICH EXISTED PRIOR TO THE START OF CONSTRUCTION.
- WHENEVER CONSTRUCTION ACTIVITIES TAKE PLACE WITHIN OR ADJACENT TO ANY TRAVELED WAY, OR INTERFERE WITH EXISTING TRAFFIC PATTERNS IN ANY MANNER, SUITABLE WARNING SIGNS, CONFORMING TO THE REQUIREMENTS OF THE UNIFORM MANUAL ON TRAFFIC CONTROL DEVICES, WILL BE ERCTED AND MAINTAINED BY THE CONTRACTOR.
- ALL AREAS ADJACENT TO THE PROPOSED ROADWAY PAVEMENT THAT ARE DISTURBED DURING CONSTRUCTION SHALL BE TOP-SOILED, SEEDDED AND FERTILIZED AT NO COST TO THE OWNER.
- A SURVEY BASELINE HAS BEEN PROVIDED ON THE PLANS AND ESTABLISHED IN THE FIELD. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE THE PROPOSED CENTERLINE IN ACCORDANCE WITH THE SURVEY BASELINE AS SHOWN ON THE PLANS. THE COST TO PERFORM THIS WORK SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.
- SEPARATE PAYMENT WILL NOT BE MADE FOR CONSTRUCTION LAYOUT, DUST CONTROL AND REMOVAL & DISPOSAL OF EXCESS OR UNWANTED MATERIAL OR DEBRIS. THE COST OF THIS WORK SHALL BE INCLUDED UNDER THE VARIOUS ITEMS IN THE PROPOSAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL EXCESS MILLING AND PULVERIZED, SCARIFIED AND EXCAVATED MATERIAL FROM THE PROJECT SITE. THE COST TO PERFORM THIS WORK SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.
- THE CONTRACTOR IS REQUIRED TO SUBMIT OUT SHEETS TO THE ENGINEER ONE (1) WEEK PRIOR TO THE INSTALLATION OF THE PROPOSED ROADWAY. IF ANY ROADWAY CONSTRUCTED WITHOUT APPROVED OUT SHEETS IS DETERMINED TO BE IMPROPERLY INSTALLED, THE ROADWAY SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- ALL RIGHT-OF-WAY LINES ARE APPROXIMATELY LOCATED AND ARE BASED ON THE MOST CURRENT AVAILABLE MUNICIPAL TAX MAPS UNLESS OTHERWISE NOTED.
- THE COST FOR ALL ROADWAY EXCAVATION AS NECESSARY TO MEET THE REQUIRED ROADWAY PROPOSED GRADES WILL NOT BE MEASURED FOR PAVEMENT BUT THE COST SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.
- PAYMENT WILL NOT BE MADE FOR ANY OBSTRUCTION REMOVAL, SUCH AS CONCRETE CURB, TREES, TREE ROOTS, VEGETATION, GRASS, TIMBER, DEBRIS, BRUSH, ROCK, ETC. WHICH MAY INTERFERE WITH THE PROPOSED ROADWAY PAVEMENT AND INLET CONSTRUCTION, BUT SHALL BE INCLUDED IN THE "CLEARING SITE" ITEM OF THE PROPOSAL.
- SEPARATE PAYMENT WILL NOT BE MADE FOR SAWCUTTING OF ANY NATURE, BUT THE COST SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.
- THE CONTRACTOR SHALL INSTALL AND MAINTAIN SOIL EROSION & SEDIMENT CONTROL MEASURES THROUGHOUT THE DURATION OF THE PROJECT. THE COST TO PERFORM THIS WORK SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.
- INSPECTIONS OR FAILURES TO INSPECT ANY MATERIALS OR WORKMANSHIP BY MUNICIPAL OFFICIALS SHALL IN NO WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES TO PERFORM THE WORK IN ACCORDANCE WITH APPLICABLE PLANS, SPECIFICATIONS AND LAWS.
- THE CONTRACTOR SHALL NOTIFY UNDERGROUND LOCATION SERVICES AT 1-800-272-1000 AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION WORK.
- PRIOR TO CONSTRUCTION OF ANY SUBBASE, BASE OR PAVEMENT COURSE, ALL SOFT OR YIELDING PORTIONS OF THE SUBGRADE WHICH DO NOT ATTAIN THE REQUIRED STABILITY WILL BE REMOVED AND REPLACED WITH BORROW EXCAVATION, SELECTED MATERIAL, DESIGNATION 1-13.
- THE CONTRACTOR SHALL USE EXCAVATED MATERIALS FOR BACKFILL UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- ALL FILL SHALL BE PLACED IN 12" LAYERS AND THOROUGHLY COMPACTED TO THE SATISFACTION OF THE ENGINEER. IF BORROW FILL IS REQUIRED, IT SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PRESERVATION OF UNDERGROUND AND SURFACE UTILITIES AND STRUCTURES AT OR ADJACENT TO THE SITE OF CONSTRUCTION AND IT SHALL BE AT HIS OWN EXPENSE TO REPAIR OR REPLACE ANYTHING THAT HE DAMAGES.
- ANY UNSUITABLE MATERIAL ON THE SITE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT APPROPRIATE PLACES AT NO COST TO THE OWNER.
- ALL GRATING, LIDS, VALVE BOXES, WELL CAPS, SERVICE CAPS, ETC., SHALL BE RAISED BY CONTRACTORS SO THAT AFFECTED ITEMS ARE FLUSH W/ FINAL PAVING.
- ALL VALVE, VENT, CURB STOP BOXES DAMAGED BY CONTRACTOR SHALL BE REPAIRED OR REPLACED IN-KIND AS DIRECTED BY THE ENGINEER.
- CONTRACTOR SHALL REMOVE AND/OR RESET ANY EXISTING FEATURES AS REQUIRED FOR THE CONSTRUCTION OF THE IMPROVEMENTS SHOWN ON THESE PLANS. COSTS TO BE INCLUDED IN THE BID, ITEM "CLEARING SITE".
- CONSTRUCTION ACTIVITIES WHICH CREATE OBNOXIOUS AND UNNECESSARY DUST, FUMES, ODORS, SMOKE, VIBRATION OR GLARE NOTICEABLE IN OCCUPIED BUILDINGS ON SITE AND ADJOINING PROPERTIES AND STREETS SHALL NOT BE PERMITTED. IN ADDITION, CONSTRUCTION ACTIVITIES WHICH RESULT IN DAMAGE TO TREES AND LANDSCAPING IN OCCUPIED BUILDING ON SITE OR ADJOINING PROPERTIES SHALL NOT BE PERMITTED.
- EXISTING CONDITIONS BASED UPON A FIELD SURVEY DATED 12/8/08 BY BACH ASSOCIATES, PC UNDER THE SUPERVISION OF JAMES A. CONWAY, JR., N.J.P.L.S. LICENSE No. 43235.
- THE CONTRACTOR SHALL COORDINATE WITH THE BOROUGH, CDBG OFFICIALS, AND THE ENGINEER BEFORE LOCATING AND ERECTING THE PROJECT SIGN. THE COST TO DO SO SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.
- ALL PROPOSED CONCRETE DRIVEWAY, SIDEWALK, AND CURB SHALL BE POURED SEPARATELY WITH THE APPROPRIATE EXPANSION JOINT MATERIAL AND NOT MONOLITHICALLY.
- PAYMENT FOR JOINT MATERIAL FOR ALL PROPOSED CURB, DRIVEWAY, AND SIDEWALK WILL NOT BE MADE BUT THE COST SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.
- PAYMENT WILL NOT BE MADE FOR ANY FACE FORMING OF PROPOSED CONCRETE CURB LOCATED ADJACENT TO TREES BUT SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.
- THE CONTRACTOR MAY USE STEEL METAL PLATES, AS APPROVED BY THE ENGINEER, IN LIEU OF PROPOSED CONCRETE CURB IN AREAS ADJACENT TO TREES AND TREE ROOTS. THE COST FOR THE MATERIAL AND INSTALLATION SHALL BE COVERED UNDER THE UNIT PRICE BID FOR 8" X 18" CONCRETE VERTICAL CURB.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR THE NECESSARY PERMITS BEFORE BEGINNING ANY WORK IN THE COUNTY RIGHT OF WAY. SEPARATE PAYMENT WILL NOT BE MADE BUT THE COST SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.
- EXISTING SUMP / ROOF DRAINS WHICH PROJECT THROUGH CURBS ARE TO REMAIN AND NEW CONCRETE CURB AND SIDEWALK SHALL BE POURED AROUND EXISTING ROOF DRAINS.

ESTIMATE OF QUANTITIES - BASE BID

#	DESCRIPTION	UNITS	PLAN QUANTITY	IF & WHERE DIRECTED	CONTRACT QUANTITY	AS-BUILT QUANTITY
1	MAINTENANCE AND PROTECTION OF TRAFFIC	LS	1	0	1	
2	CLEARING SITE	LS	1	0	1	
3	1-13 SOIL AGGREGATE (IF & WHERE DIRECTED)	CY	0	50	50	
4	PULVERIZED SOIL AGGREGATE BASE COURSE, ROAD MIXED, 6" THICK	SY	3398	172	3570	
5	TACK COAT (IF & WHERE DIRECTED)	GAL	0	500	500	
6	PRIME COAT (IF & WHERE DIRECTED)	GAL	0	1200	1200	
7	HOT MIX ASPHALT 19M64 SURFACE COURSE, 1.5" THICK	TON	304	16	320	
8	HOT MIX ASPHALT 19M64 BASE COURSE, 2.5" THICK	TON	496	29	525	
9	RESET EXISTING CASTING	UN	1	1	2	
10	CONCRETE SIDEWALK, 4" THICK	SY	371	34	405	
11	CONCRETE DRIVEWAY, 6" THICK	SY	228	22	250	
12	8" X 18" CONCRETE VERTICAL CURB	LF	2329	56	2385	
13	TRAFFIC MARKINGS, SYMBOLS, LONG-LIFE, THERMOPLASTIC	SF	440	20	460	
14	PUBLIC SIDEWALK CURB RAMP DETECTABLE WARNINGS, BRICK TRUNCATED DOMES	SF	32	3	35	
15	RESET VENT/VALVE BOX (IF & WHERE DIRECTED)	UN	0	50	50	
16	TOPSOILING, 4" THICK (IF & WHERE DIRECTED)	SY	0	525	525	
17	FERTILIZING AND SEEDING, TYPE "A-3" (IF & WHERE DIRECTED)	SY	0	525	525	
18	TREE REMOVAL, OVER 30" TO 36" DIAMETER	UN	1	0	1	
19	PROJECT SIGN	UN	1	0	1	
20	DOGHOUSE MANHOLE, SANITARY SEWER	UN	1	0	1	

42. THE CONTRACTOR SHALL SUBMIT THE MATERIALS TO BE USED AND INSTALLATION DRAWINGS FOR THE PROPOSED SANITARY SEWER DOGHOUSE MANHOLE TO THE ENGINEER PRIOR TO CONSTRUCTION FOR REVIEW.

43. CONTRACTOR SHALL COORDINATE ALL UTILITY RELOCATIONS AND INSTALLATIONS AS REQUIRED WITH THE APPLICABLE UTILITY COMPANIES. THERE WILL BE NO SEPARATE PAYMENT FOR THIS COORDINATION.

44. THE COST TO REMOVE, RELOCATE AND RESET STREET SIGNS SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.

45. PROPOSED STREET LIGHTS TO BE INSTALLED BY PSE&G ARE DELUXE ACORN II, 120 V, 100 W, HIGH PRESSURE SODIUM WITH 12 FOOT COLONIAL DECORATIVE POLE.

46. PSE&G WILL PERFORM ALL NECESSARY TRENCH WORK AND CONDUIT PLACEMENT TO INSTALL ACORN LAMPPOST STREETLIGHTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT PSE&G AND TO SCHEDULE AND COORDINATE ALL WORK INVOLVED WITH PSE&G INSTALLING THE PROPOSED STREETLIGHTS. THE CONTRACTOR WILL NOT BE REIMBURSED FOR THIS RESPONSIBILITY, BUT THE COST SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.

47. ANY EXISTING STAIRWAYS, HAND RAILINGS, FENCING AND / OR SHORT RETAINING WALLS THAT ARE DAMAGED OR STOLEN DURING CONSTRUCTION SHALL BE REPLACED AT NO COST TO THE OWNER OR BOROUGH OF WOODYLYNE.

48. PUBLIC SIDEWALK CURB RAMP DELINEATION, CLAY BRICK PAVERS WITH TRUNCATED DOMES SHALL BE PINE HALL BRICK COMPANY (WWW.PINEHALLBRICK.COM) TACTILE PAVERS (PATHWAY RED COLOR) OR APPROVED EQUAL.

49. THE CONTRACTOR SHALL BE AWARE THAT HE OR SHE IS REQUIRED TO NEATLY SAWCUT EXISTING CURB, DRIVEWAY, SIDEWALK AND CURB RAMPS WHERE NECESSARY. ANY ADJACENT, EXISTING SECTIONS NOT SPECIFICALLY CALLED OUT ON THE PLANS TO BE REPLACED THAT ARE DAMAGED, SHALL BE REPLACED AT THE CONTRACTOR'S OWN EXPENSE AND AT NO COST TO THE BOROUGH OF WOODYLYNE.

50. THE COST OF ALL EXCAVATION, COURSE AND SOIL AGGREGATE, BACKFILL, MORTAR, SELECT MATERIAL, STONE, FILTER FABRIC CLASS C BEDDING, SAND, DEWATERING, BUTAL TAPE, FITTINGS, SHORING, SHEETING AND BRACING INVOLVED IN ALL STORM AND SANITARY SEWER DRAINAGE PIPE AND STRUCTURE INSTALLATION SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.

51. SEPARATE PAYMENT WILL NOT BE MADE BUT THE COST TO PROVIDE ALL LABOR, MATERIAL, EQUIPMENT AND SERVICES TO PERFORM THE FOLLOWING WORK SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.

- REMOVAL AND RESETTING OF BRICK PAVER SIDEWALK.
- REMOVAL AND DISPOSAL OF ANY EXISTING CONCRETE, COBBLESTONE OR BRICK ROADWAY AND/OR GUTTER (INCLUDING ASPHALT OVERLAY) WHICH MAY BE ENCOUNTERED.
- REMOVAL, RELOCATION AND RESETTING OF BASEMENT SUMP AND/OR ROOF DRAINS THROUGH THE EXISTING CURB AND SIDEWALK.
- CONCRETE DRIVEWAY REINFORCEMENT.
- REMOVAL OF TREE STUMP 1' MINIMUM BELOW GRADE.

52. THE COST FOR THE CONTRACTOR TO CONSULT THE UTILITY COMPANIES AND CAREFULLY FIELD VERIFY THE LOCATION AND DEPTH OF THE UTILITIES, IF NEEDED, SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.

53. COST TO RESTORE PAVEMENT MARKINGS ON ANY ADJACENT ROAD SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.

54. CONSTRUCTION ITEMS 1-18 AND CONSTRUCTION INSPECTION ARE ELIGIBLE TO BE FUNDED UNDER THE FY 2009 NJDOT TRUST FUND PROGRAM. CONSTRUCTION ITEMS 19 AND 20 ARE NOT ELIGIBLE FOR FUNDING UNDER THE FY 2009 NJDOT TRUST FUND PROGRAM. ENGINEERING AND DESIGN WILL BE FUNDED UNDER THE CDBG PROGRAM YEAR 31 FUNDING PROGRAM.

55. THE BASE BID INCLUDES THE WORK FROM THIRD STREET TO FERRY AVENUE. ALTERNATE BID NO. 1 INCLUDES THE WORK FROM THIRD STREET TO STATION 19+00. ALTERNATE BID NO. 2 INCLUDES THE WORK FROM THIRD STREET TO STATION 15+28 (WOODYLYNE AVENUE).

56. ALL CONSTRUCTION DETAILS NOT SHOWN SHALL BE IN ACCORDANCE WITH N.J.D.O.T. STANDARDS AS DETAILED IN:

"STANDARD ROADWAY CONSTRUCTION CONTROL/BRIDGE CONSTRUCTION DETAILS."
"ELECTRICAL BUREAU STANDARD DETAILS."

INCLUDING ALL APPLICABLE BASELINE DOCUMENT CHANGES AND APPENDICES. THESE DETAILS MAY BE PURCHASED THROUGH THE N.J.D.O.T. PLANS AND SPECIFICATION DISTRIBUTION CENTER AT:

1035 PARKWAY AVENUE
TRENTON, NJ 08625
(1-609-530-2098)



BACH Associates, PC
ENGINEERS • ARCHITECTS • PLANNERS

304 White Horse Pike
Haddon Heights, New Jersey 08035
Tel: 856-546-8611
Fax: 856-546-8612
www.BachDesignGroup.com

SEALS:



STEVEN M. BACH, PE, RA, PP, CME
NJ PROFESSIONAL ENGINEER No. GE 41507
NJ REGISTERED ARCHITECT No. AI 14872
NJ PROFESSIONAL PLANNER No. LI 05557

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

PROJECT:

**FY 2009 N.J.D.O.T. TRUST FUND
RECONSTRUCTION OF
PARKER AVENUE
CAMDEN COUNTY CDBG PROGRAM
YEAR 31 FUNDING**
BOROUGH OF WOODYLYNE
CAMDEN COUNTY, NEW JERSEY

ALL DOCUMENTS PREPARED BY BACH ASSOCIATES, PC ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SIGNATURE FOR REVIEW BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE, WITHOUT WRITTEN VERIFICATION OR PERMISSION BY BACH ASSOCIATES, PC FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OF LEGAL EXPOSURE TO BACH ASSOCIATES, PC AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS BACH ASSOCIATES, PC FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

REVISIONS		
NO.	DESCRIPTION	DATE

DRAWING TITLE:

**NOTES, LEGENDS,
AND QUANTITIES**

JOB NO: WDLN2008-4	DESIGNED BY: SRD
DATE: 03/18/09	DRAWN BY: ATS
SCALE: 1"=30'	CHECKED BY: BS

DRAWING NUMBER:

C-2



BACH Associates, PC
ENGINEERS • ARCHITECTS • PLANNERS

304 White Horse Pike
Haddon Heights, New Jersey 08035
Tel: 856-546-8611
Fax: 856-546-8612
www.BachDesignGroup.com

SEALS:



STEVEN M. BACH, PE, RA, PP, CME
NJ PROFESSIONAL ENGINEER No. GE 41507
NJ REGISTERED ARCHITECT No. AI 14872
NJ PROFESSIONAL PLANNER No. LI 05557

ALL DIMENSIONS MUST BE VERIFIED BY
CONTRACTOR AND OWNER MUST BE NOTIFIED
OF ANY DISCREPANCIES BEFORE PROCEEDING
WITH THE WORK.

PROJECT:

FY 2009 N.J.D.O.T. TRUST FUND
RECONSTRUCTION OF
PARKER AVENUE
CAMDEN COUNTY CDBG PROGRAM
YEAR 31 FUNDING
BOROUGH OF WOODLYNNE
CAMDEN COUNTY, NEW JERSEY

ALL DOCUMENTS PREPARED BY BACH ASSOCIATES, PC ARE INSTRUMENTS
OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED
OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS
ON EXTENSION OF THE PROJECT OR ON ANY OTHER PROJECT. ANY
REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY BACH
ASSOCIATES, PC FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT
OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO
BACH ASSOCIATES, PC AND OTHER SHALL INCUR AND HOLD
HARMLESS BACH ASSOCIATES, PC FROM ALL CLAIMS, DAMAGES, LOSSES
AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

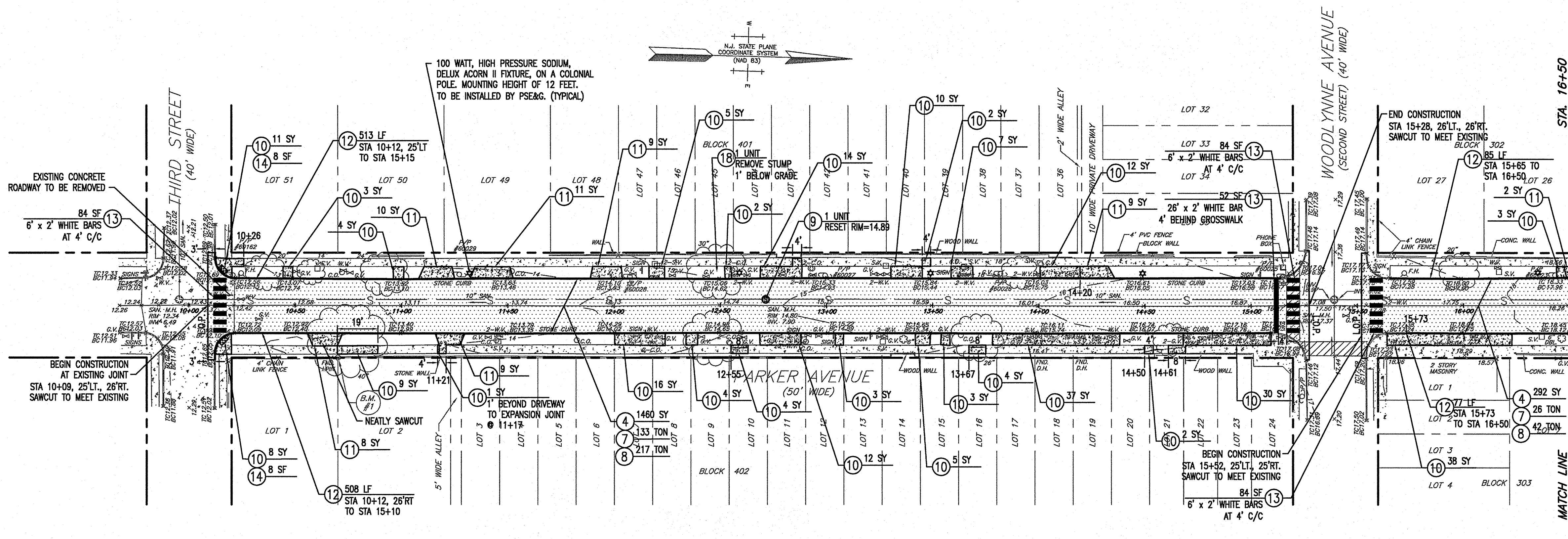
REVISIONS		
NO.	DESCRIPTION	DATE

DRAWING TITLE:

**PLAN &
PROFILE
PARKER AVENUE
STA 10+00 TO 16+50**

JOB NO: WOLYN2008-4	DESIGNED BY: SRD
DATE: 03/18/09	DRAWN BY: ATS
SCALE: 1"=30'	CHECKED BY: BS
DRAWING NUMBER:	

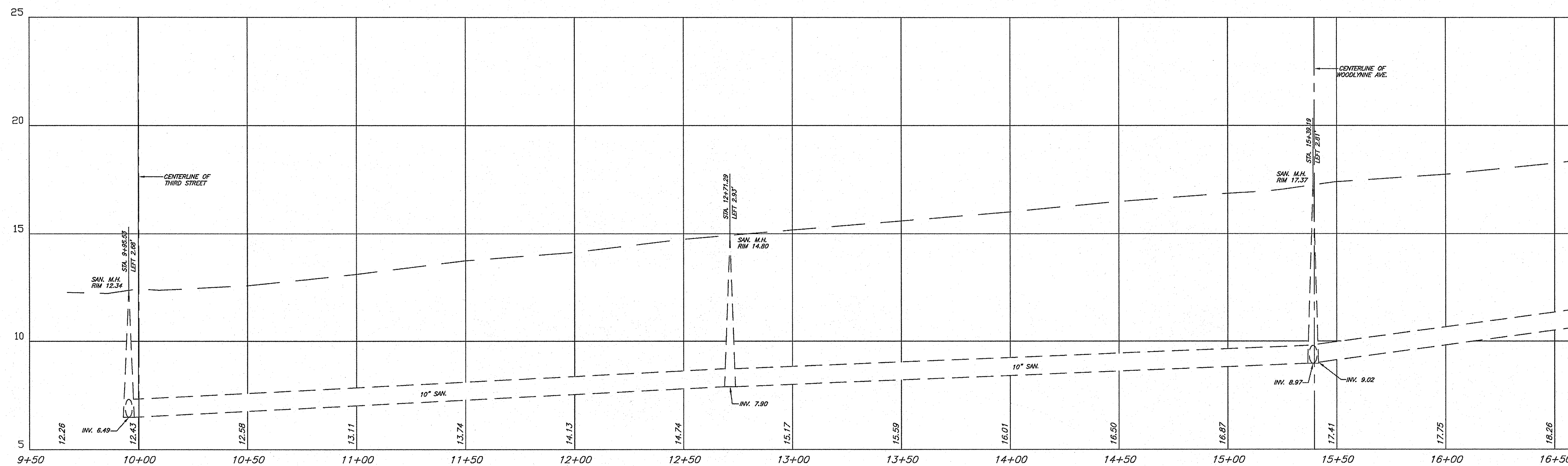
CP-1



**PLAN VIEW
PARKER AVENUE**

SCALE: 1" = 30'
30 0 30 60
scale feet

LIGHT POLE FOUNDATION LOCATION CHART			
POLE NO.	SIDE OF PARKER AVENUE	STATION	OFFSET DISTANCE FROM BASELINE (FEET)
1	WEST	11+32	15.50
2	WEST	12+59	15.50
3	WEST	13+49	15.50
4	WEST	14+49	15.50
5	WEST	16+35	15.50



PARKER AVENUE PROFILE VIEW

STATIONS 10+00 THRU 16+50
VERTICAL SCALE: 1" = 3'
HORIZONTAL SCALE: 1" = 30'



BACH Associates, PC
ENGINEERS • ARCHITECTS • PLANNERS

304 White Horse Pike
Haddon Heights, New Jersey 08035
Tel: 856-546-8611
Fax: 856-546-8612
www.BachDesignGroup.com

SEALS:

STEVEN M. BACH, PE, RA, PP, CME
NJ PROFESSIONAL ENGINEER No. GE 41507
NJ REGISTERED ARCHITECT No. AI 14872
NJ PROFESSIONAL PLANNER No. LI 05557

ALL DIMENSIONS MUST BE VERIFIED BY
CONTRACTOR AND OWNER MUST BE NOTIFIED
OF ANY DISCREPANCIES BEFORE PROCEEDING
WITH THE WORK.

PROJECT:

**FY 2009 N.J.D.O.T. TRUST FUND
RECONSTRUCTION OF
PARKER AVENUE
CAMDEN COUNTY CDBG PROGRAM
YEAR 31 FUNDING**
BOROUGH OF WOODLYNNE
CAMDEN COUNTY, NEW JERSEY

ALL DOCUMENTS PREPARED BY BACH ASSOCIATES, PC ARE INSTRUMENTS
OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED
OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS
OR EXTENSION OF THE PROJECT OR ON ANY OTHER PROJECT. ANY
REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY BACH
ASSOCIATES, PC FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT
OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO
BACH ASSOCIATES, PC AND OWNER SHALL INDEMNIFY AND HOLD
HARMLESS BACH ASSOCIATES, PC FROM ALL CLAIMS, DAMAGES, LOSSES
AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

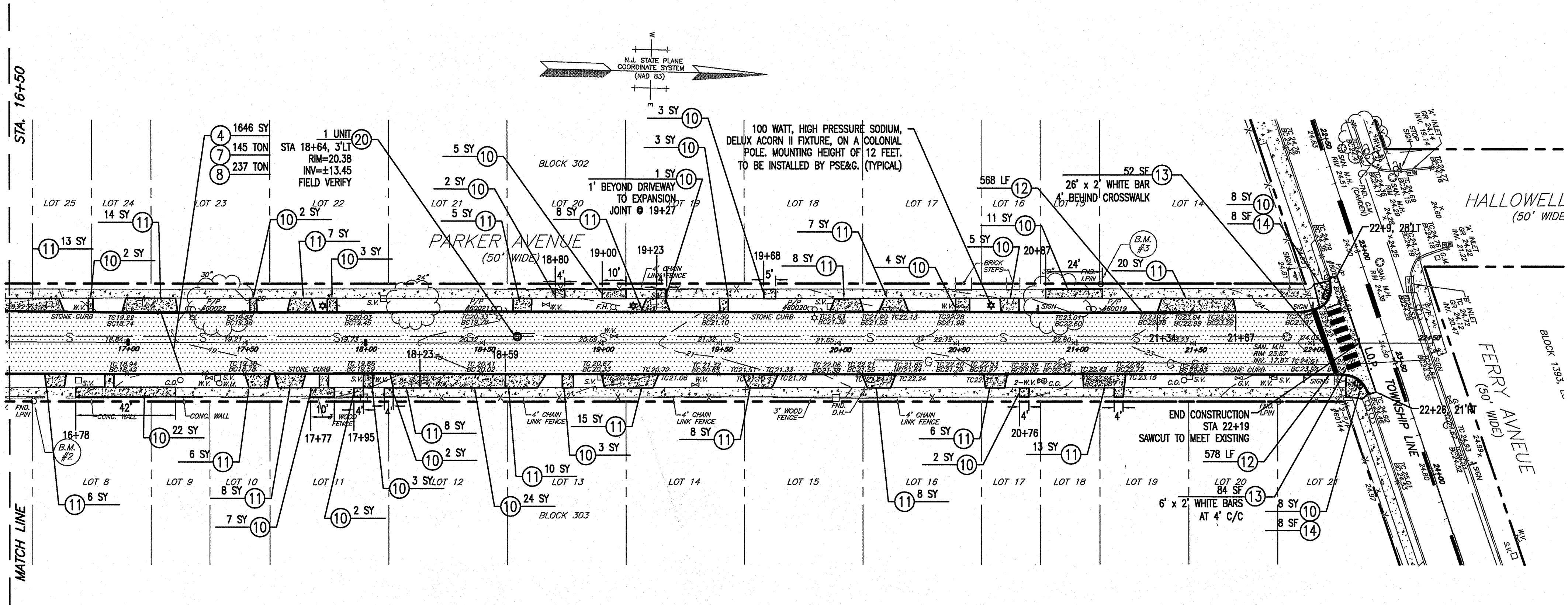
REVISIONS		
NO.	DESCRIPTION	DATE

DRAWING TITLE:
**PLAN &
PROFILE
PARKER AVENUE
STA 16+50 TO 22+00**

JOB NO: WDLN2008-4	DESIGNED BY: SRD
DATE: 03/18/09	DRAWN BY: ATS
SCALE: 1"=30'	CHECKED BY: BS

DRAWING NUMBER:

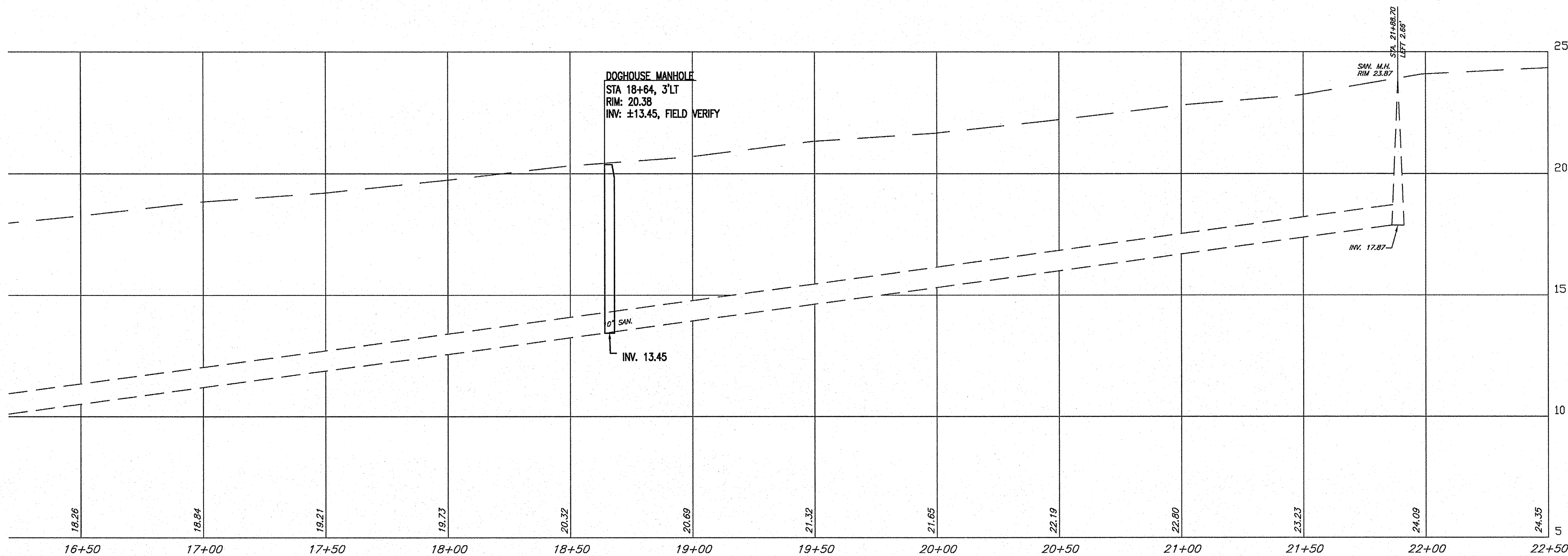
CP-2



PLAN VIEW PARKER AVENUE

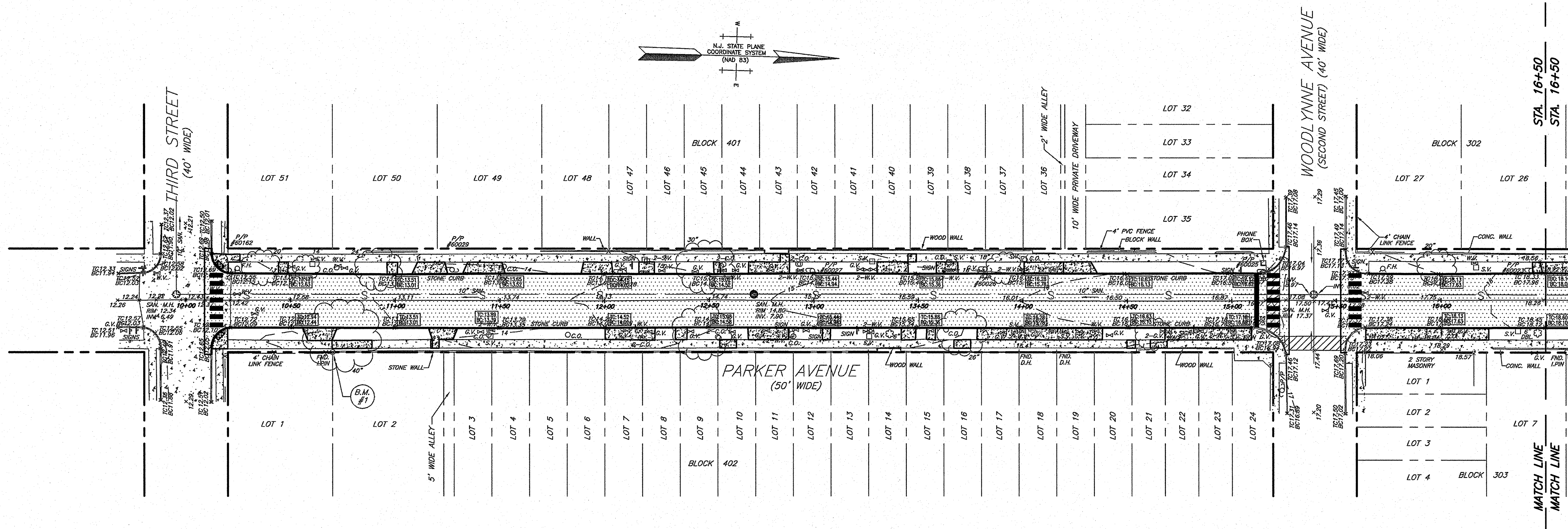
SCALE: 1" = 30'
0 30 60
scale feet

LIGHT POLE FOUNDATION LOCATION CHART			
POLE NO.	SIDE OF PARKER AVENUE	STATION	OFFSET DISTANCE FROM BASELINE (FEET)
1	WEST	17+82	15.50
2	WEST	19+13	15.50
3	WEST	20+64	15.50



PARKER AVENUE PROFILE VIEW

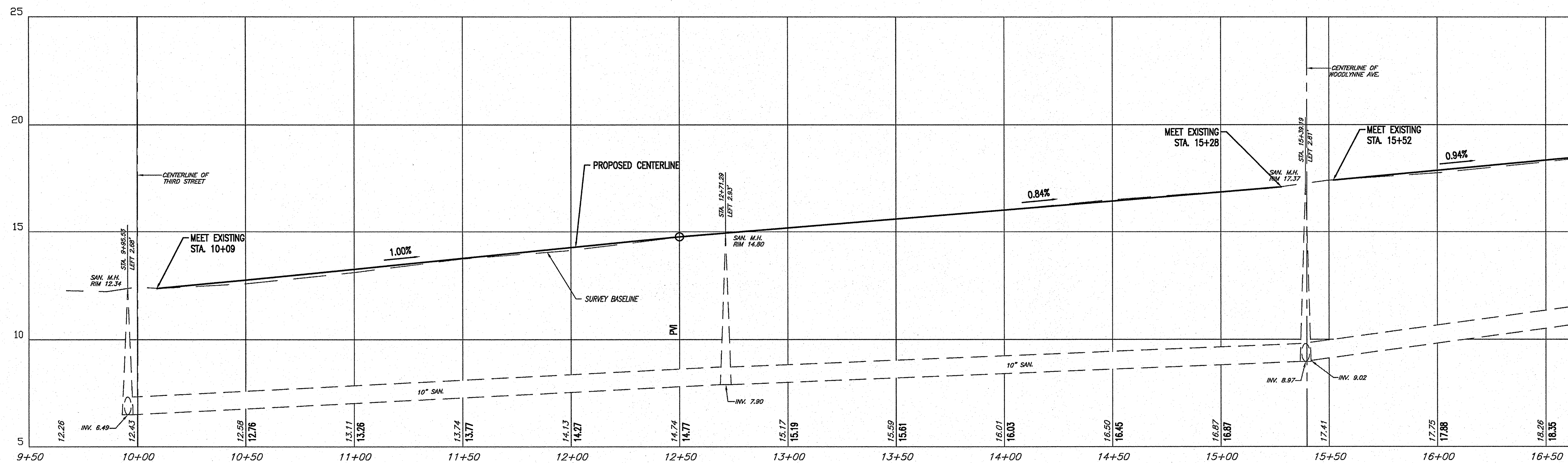
STATIONS 16+50 THRU 22+00
VERTICAL SCALE: 1" = 3'
HORIZONTAL SCALE: 1" = 30'



PLAN VIEW
PARKER AVENUE

SCALE: 1" = 30'

30 0 30 60
scale feet



PARKER AVENUE PROFILE VIEW

STATIONS 10+00 THRU 16+50
VERTICAL SCALE: 1" = 30'
HORIZONTAL SCALE: 1" = 30'



BACH Associates, PC
ENGINEERS • ARCHITECTS • PLANNERS

304 White Horse Pike
Haddon Heights, New Jersey 08035
Tel: 856-546-8611
Fax: 856-546-8612
www.BachDesignGroup.com

SEALS:



STEVEN M. BACH, PE, RA, PP, CME
NJ PROFESSIONAL ENGINEER No. GE 41507
NJ REGISTERED ARCHITECT No. AI 14872
NJ PROFESSIONAL PLANNER No. LI 05557

ALL DIMENSIONS MUST BE VERIFIED BY
CONTRACTOR AND OWNER MUST BE NOTIFIED
OF ANY DISCREPANCIES BEFORE PROCEEDING
WITH THE WORK.

PROJECT:

FY 2009 N.J.D.O.T. TRUST FUND
RECONSTRUCTION OF
PARKER AVENUE
CAMDEN COUNTY CDBG PROGRAM
YEAR 31 FUNDING
BOROUGH OF WOODLYNNE
CAMDEN COUNTY, NEW JERSEY

ALL DOCUMENTS PREPARED BY BACH ASSOCIATES, PC ARE INSTRUMENTS
OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED
OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS
ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY
REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY BACH
ASSOCIATES, PC FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT
OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO
BACH ASSOCIATES, PC AND OWNERS SHALL INDEMNIFY AND HOLD
HARMLESS BACH ASSOCIATES, PC FROM ALL CLAIMS, DAMAGES, LOSSES
AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

REVISIONS		
NO.	DESCRIPTION	DATE

DRAWING TITLE:

GRADING
PLAN & PROFILE
PARKER AVENUE
STA 10+00 TO 16+50

JOB NO: WOLYN2008-4	DESIGNED BY: SRD
DATE: 03/18/09	DRAWN BY: ATS
SCALE: 1"=30'	CHECKED BY: BS

DRAWING NUMBER:

CP-3



BACH Associates, PC
ENGINEERS • ARCHITECTS • PLANNERS

304 White Horse Pike
Haddon Heights, New Jersey 08035
Tel: 856-546-8611
Fax: 856-546-8612
www.BachDesignGroup.com

SEALS:



STEVEN M. BACH, PE, RA, PP, CME
NJ PROFESSIONAL ENGINEER No. GE 41507
NJ REGISTERED ARCHITECT No. AI 14872
NJ PROFESSIONAL PLANNER No. LI 05557

ALL DIMENSIONS MUST BE VERIFIED BY
CONTRACTOR AND OWNER MUST BE NOTIFIED
OF ANY DISCREPANCIES BEFORE PROCEEDING
WITH THE WORK.

PROJECT:

FY 2009 N.J.D.O.T. TRUST FUND
RECONSTRUCTION OF
PARKER AVENUE
CAMDEN COUNTY CDBG PROGRAM
YEAR 31 FUNDING
BOROUGH OF WOODLYNNE
CAMDEN COUNTY, NEW JERSEY

ALL DOCUMENTS PREPARED BY BACH ASSOCIATES, PC ARE INSTRUMENTS
OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED
OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS
ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY
REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY BACH
ASSOCIATES, PC FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT
OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL REMEDY TO
BACH ASSOCIATES, PC. OWNER SHALL INDEMNIFY AND HOLD
HARMLESS BACH ASSOCIATES, PC FROM ALL CLAIMS, DAMAGES, LOSSES
AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

REVISIONS

NO.	DESCRIPTION	DATE

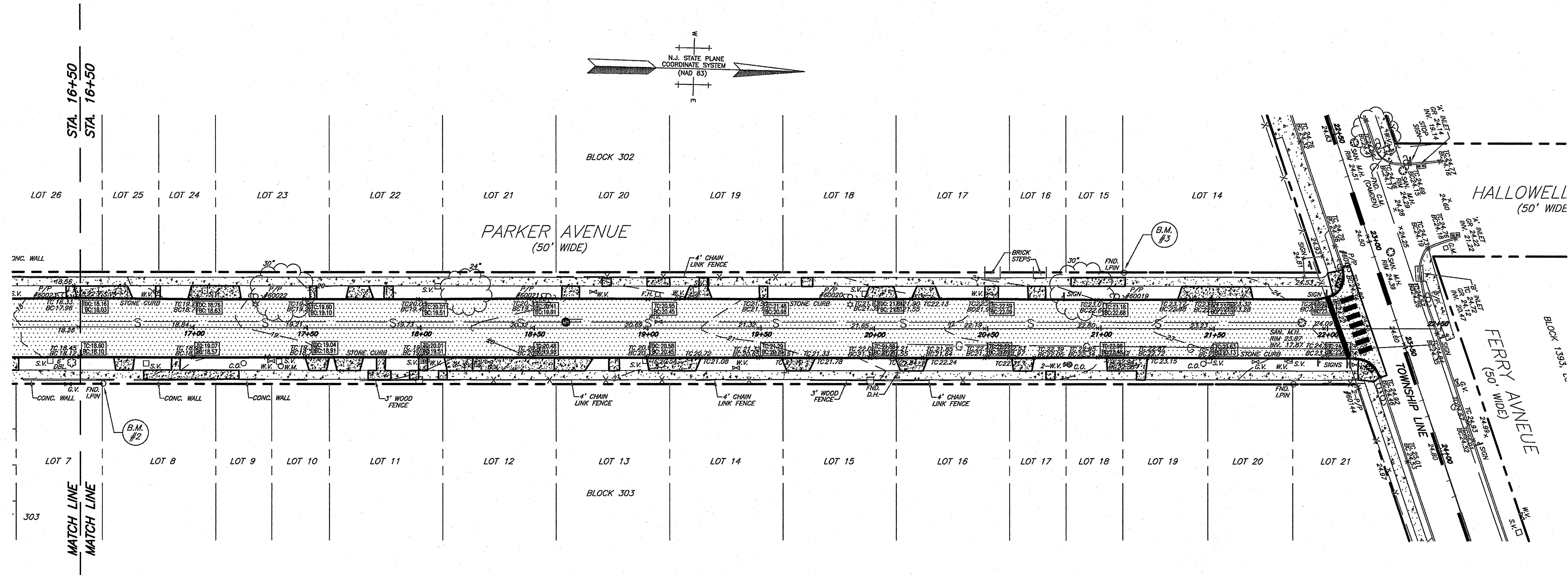
DRAWING TITLE:

GRADING
PLAN & PROFILE
PARKER AVENUE
STA 16+50 TO 22+00

JOB NO: WOLYN2008-4	DESIGNED BY: SRD
DATE: 05/18/09	DRAWN BY: ATS
SCALE: 1"=30'	CHECKED BY: BS

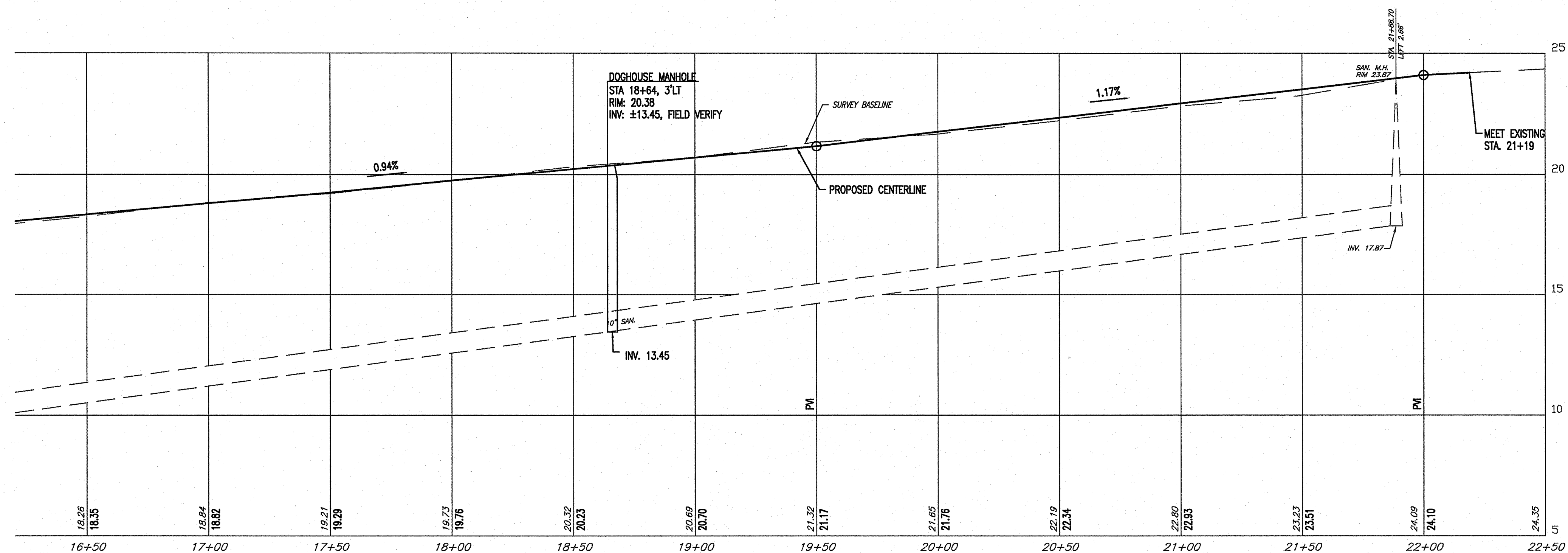
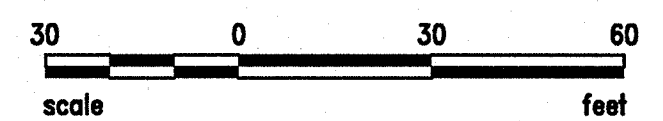
DRAWING NUMBER:

CP-4



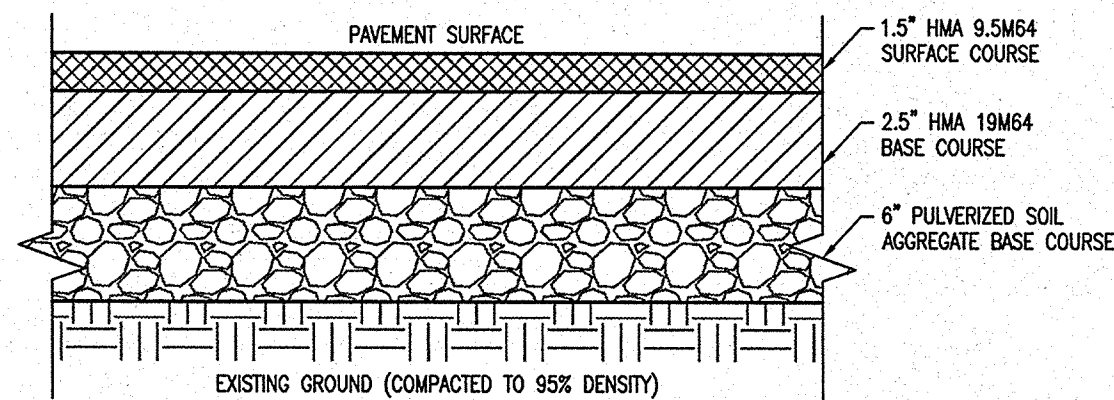
PLAN VIEW PARKER AVENUE

SCALE: 1" = 30'

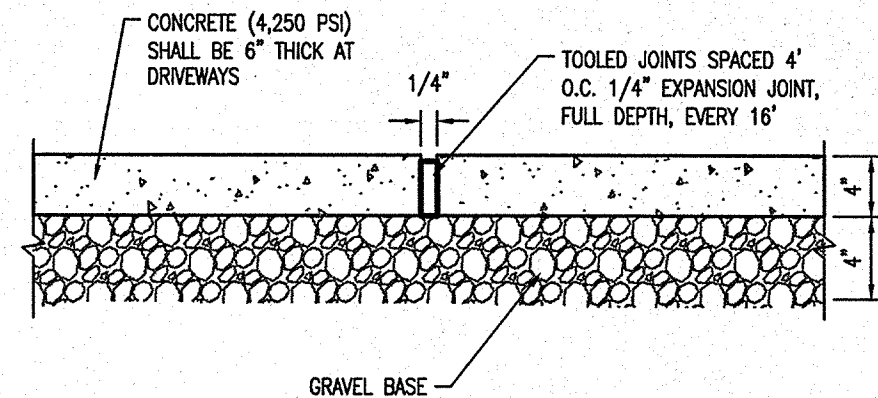


PARKER AVENUE PROFILE VIEW

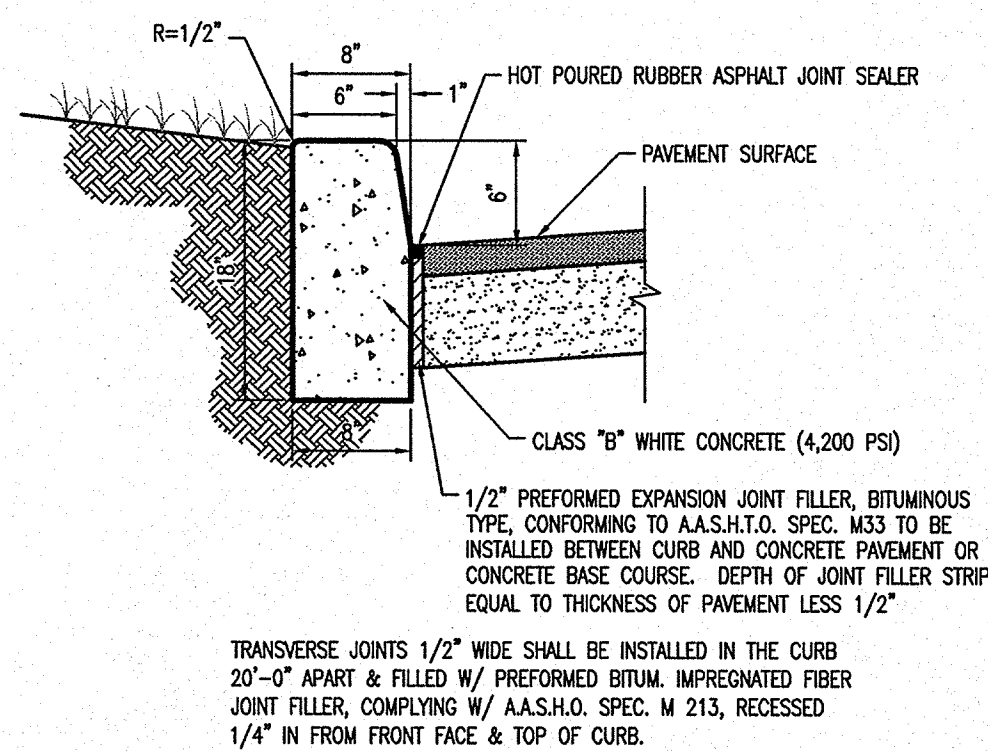
STATIONS 16+50 THRU 22+00
VERTICAL SCALE: 1" = 3'
HORIZONTAL SCALE: 1" = 30'



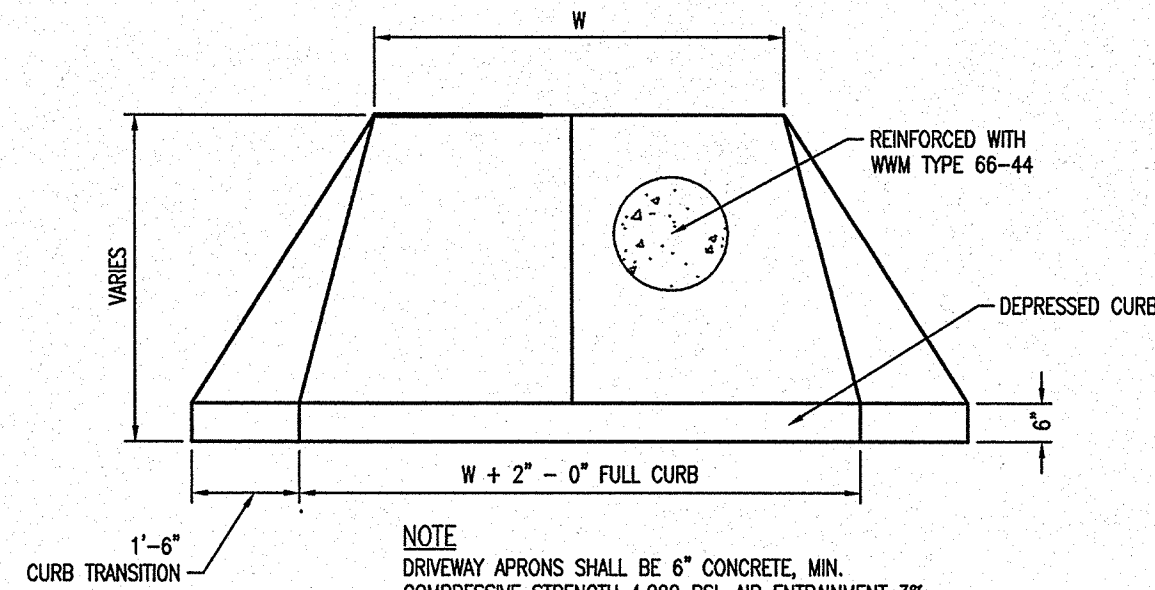
PAVEMENT DETAIL
SCALE: NTS



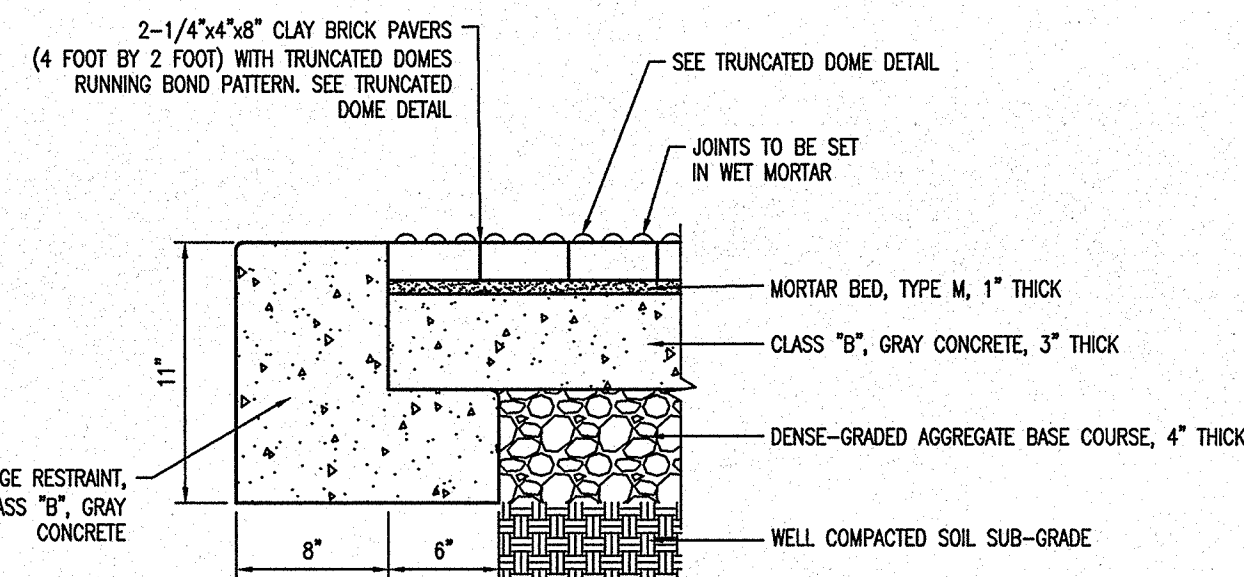
CONCRETE WALK DETAIL
SCALE: NTS



CURB DETAIL
SCALE: NTS

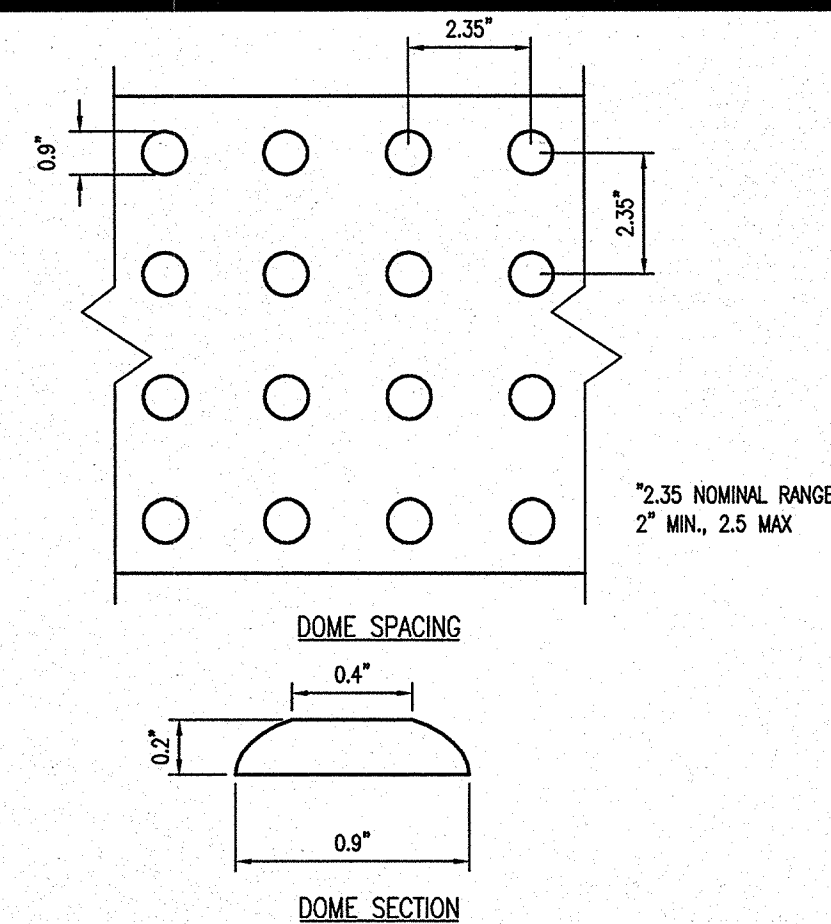


DRIVEWAY APRON
SCALE: NTS

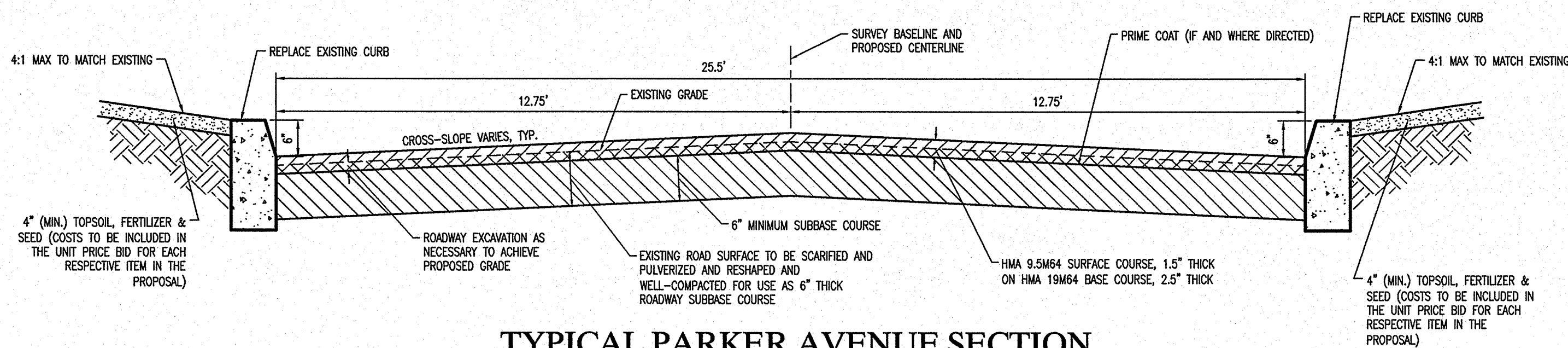


- NOTES:**
1. THE CLAY BRICK PAVERS, TRADITIONAL EDGE SERIES, SHALL BE MANUFACTURED BY PINE HALL BRICK CO. INC., WINSTON-SALEM, NORTH CAROLINA AND BE DISTRIBUTED BY CHURCH BRICK COMPANY, BORDENTOWN, NEW JERSEY OR APPROVED EQUAL. THE COLOR IS TO BE PATHWAY RED.
 2. THE SURFACE OF THE CLAY BRICK PAVES SHALL BE SLIP RESISTANT, WITH TRUNCATED DOMES, AND SHALL CONFORM TO ASTM SPECIFICATION C 902-93 FOR THE TYPE OF USE SPECIFIED.
 3. THE CLAY BRICK PAVERS SHALL BE INSTALLED FOUR (4) FEET IN WIDTH (PARALLEL TO THE STREET) AND TWO (2) FEET IN LONGITUDINAL DIRECTION (PERPENDICULAR TO THE STREET).

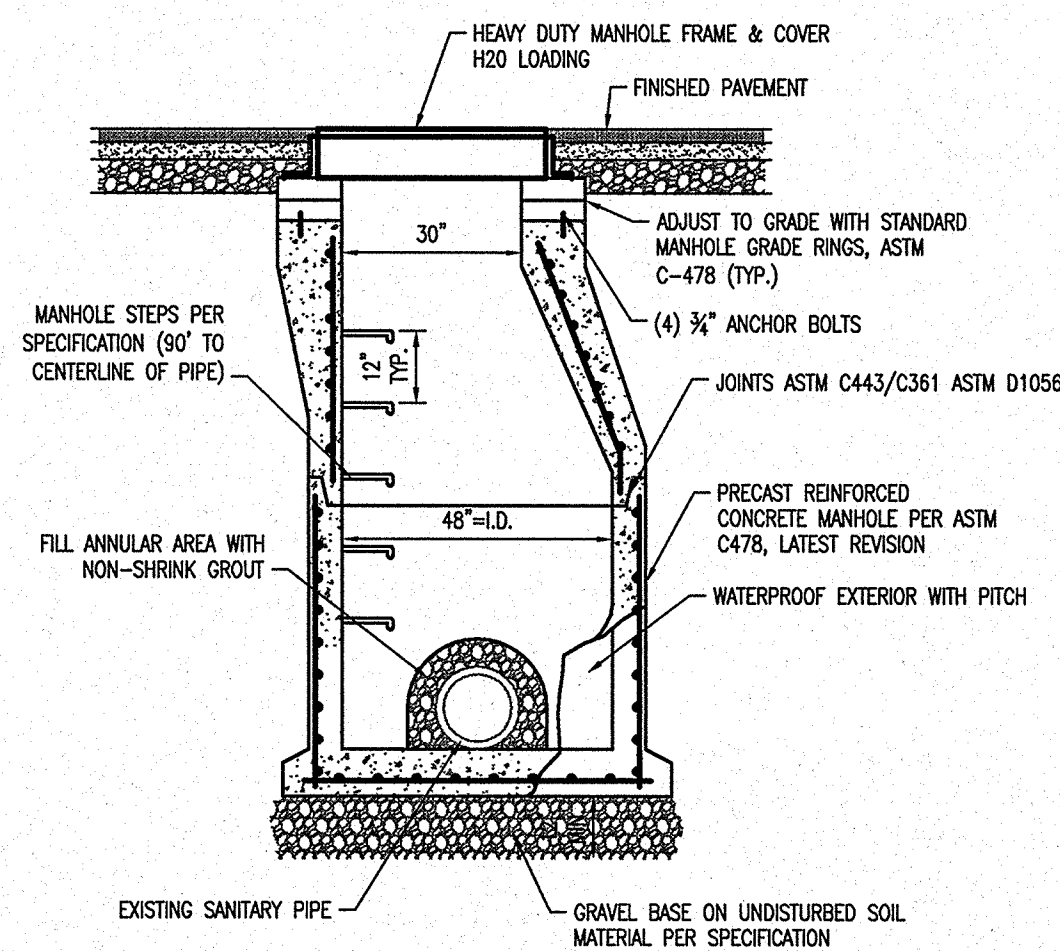
CURB RAMP DETECTABLE WARNINGS DETAIL
SCALE: NTS



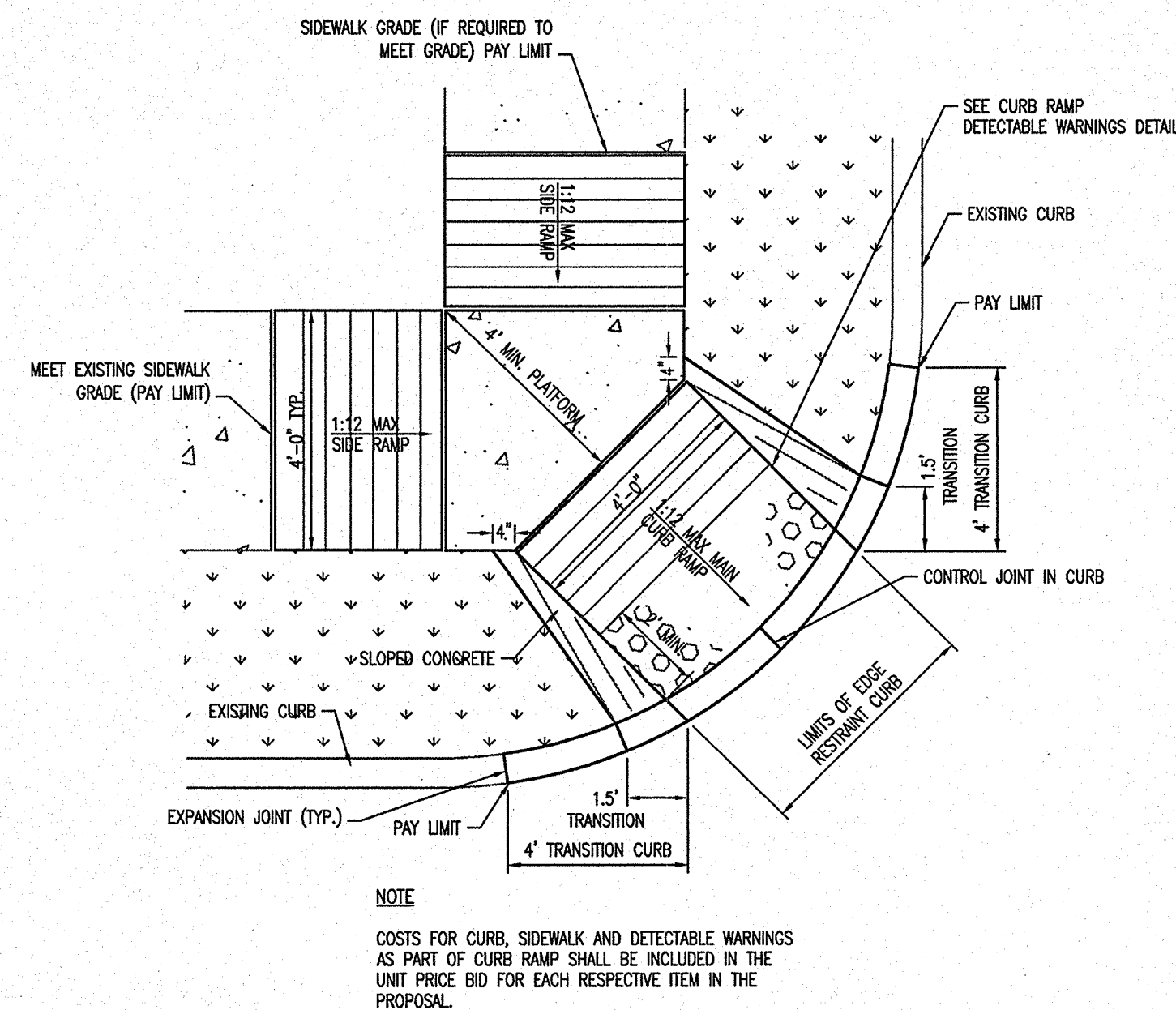
TRUNCATED DOME DETAIL
SCALE: NTS



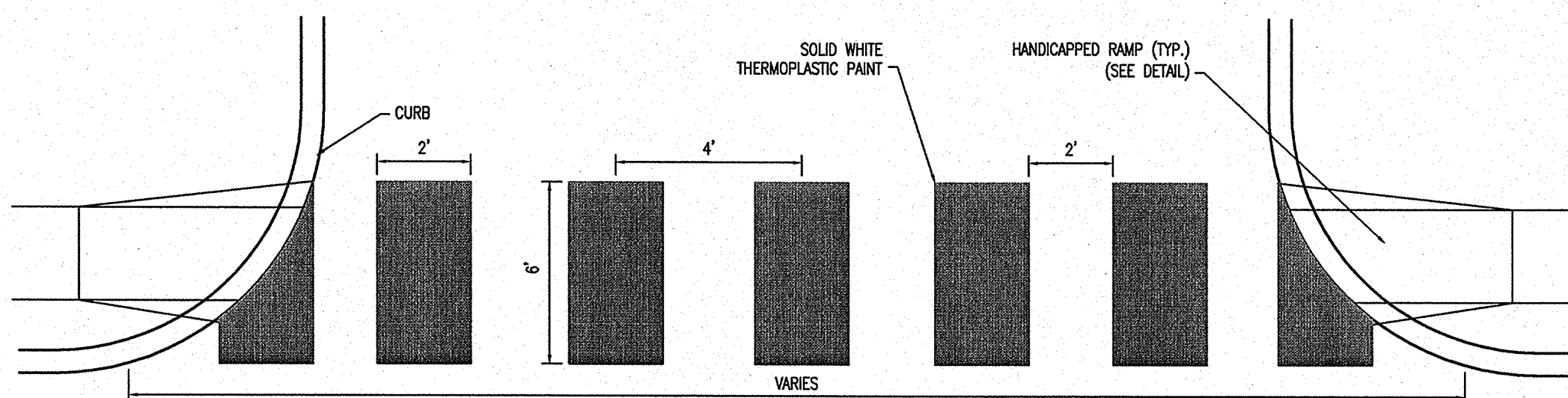
TYPICAL PARKER AVENUE SECTION
SCALE: NTS



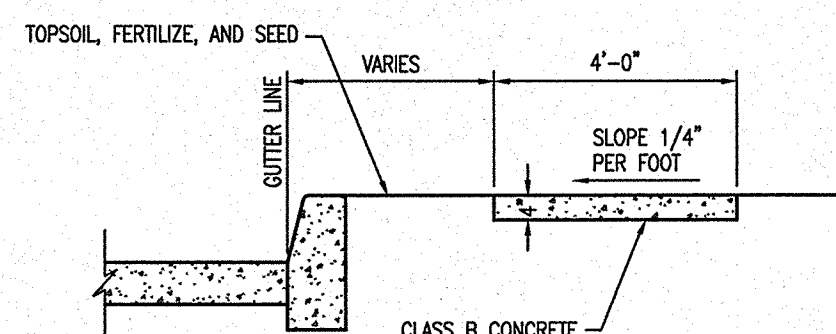
SANITARY DOGHOUSE MANHOLE
SCALE: NTS



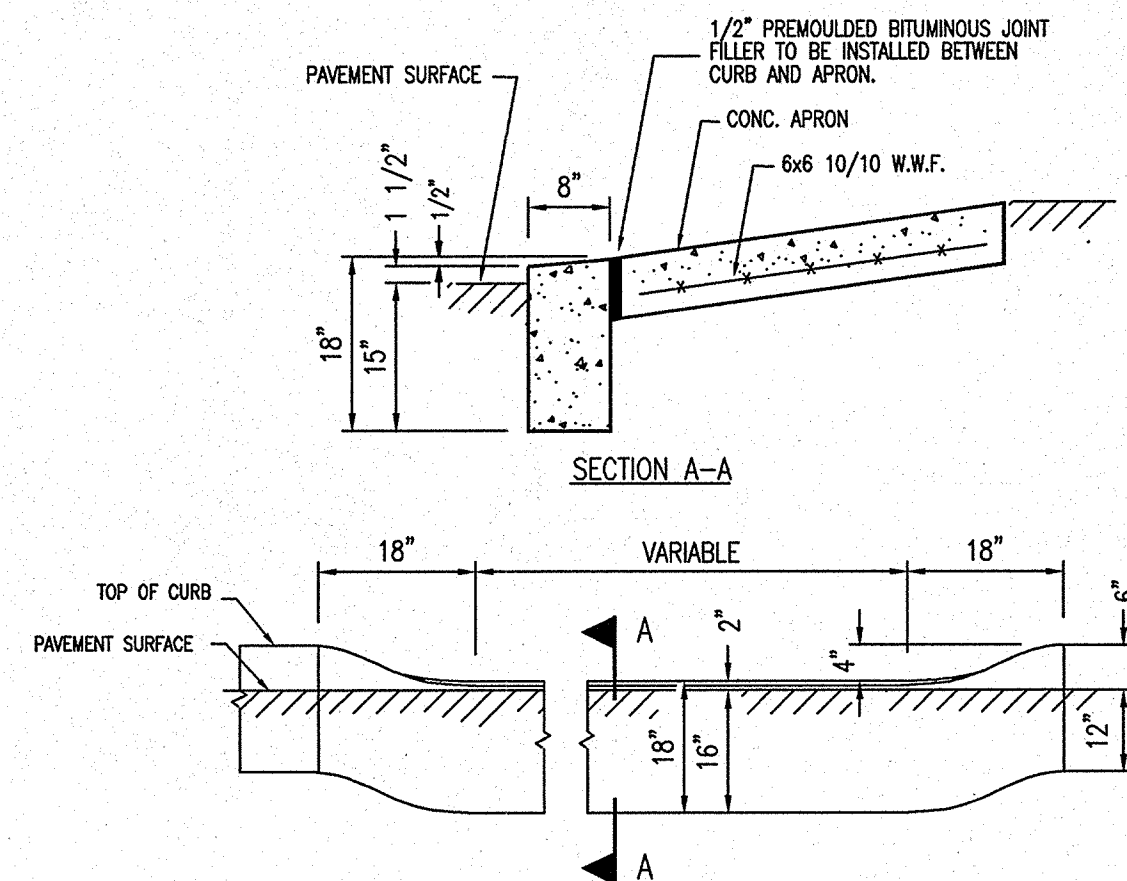
PUBLIC SIDEWALK CURB RAMP DETAIL
SCALE: NTS



PAINTED PEDESTRIAN CROSSWALK
SCALE: NTS



4\"/>



- NOTES:**
- COST TO INSTALL 6x6 10/10 W.W.F. SHALL BE INCLUDED IN THE UNIT PRICE BID FOR \"CONCRETE DRIVEWAY, 6\" THICK.

DEPRESSED CURB DETAIL
SCALE: NTS



BACH Associates, PC
ENGINEERS • ARCHITECTS • PLANNERS
304 White Horse Pike
Haddon Heights, New Jersey 08035
Tel: 856-546-8611
Fax: 856-546-8612
www.BachDesignGroup.com

SEALS:



STEVEN M. BACH, PE, RA, PP, CME
NJ PROFESSIONAL ENGINEER No. GE 41507
NJ REGISTERED ARCHITECT No. AI 14872
NJ PROFESSIONAL PLANNER No. LI 05557

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

PROJECT:

**FY 2009 N.J.D.O.T. TRUST FUND
RECONSTRUCTION OF
PARKER AVENUE
CAMDEN COUNTY CDBG PROGRAM
YEAR 31 FUNDING**
BOROUGH OF WOODLYNNE
CAMDEN COUNTY, NEW JERSEY

ALL DOCUMENTS PREPARED BY BACH ASSOCIATES, PC ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY BACH ASSOCIATES, PC FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO BACH ASSOCIATES, PC. AND OWNERS SHALL INDEMNIFY AND HOLD HARMLESS BACH ASSOCIATES, PC FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

REVISIONS		
NO.	DESCRIPTION	DATE

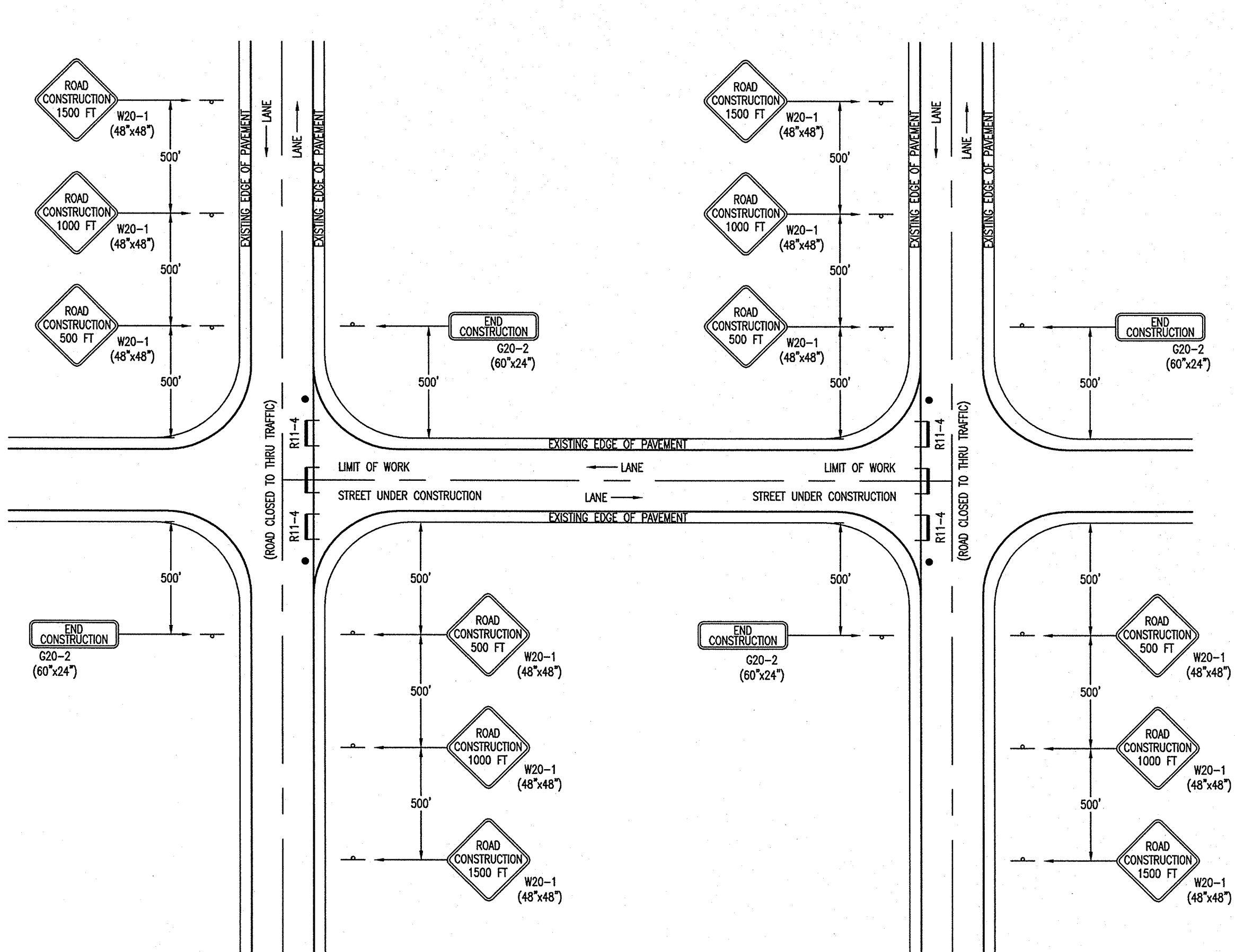
DRAWING TITLE:

CONSTRUCTION DETAILS

JOB NO: WDLN2008-4	DESIGNED BY: SRD
DATE: 03/18/09	DRAWN BY: ATS
SCALE: 1\"/>	CHECKED BY: BS

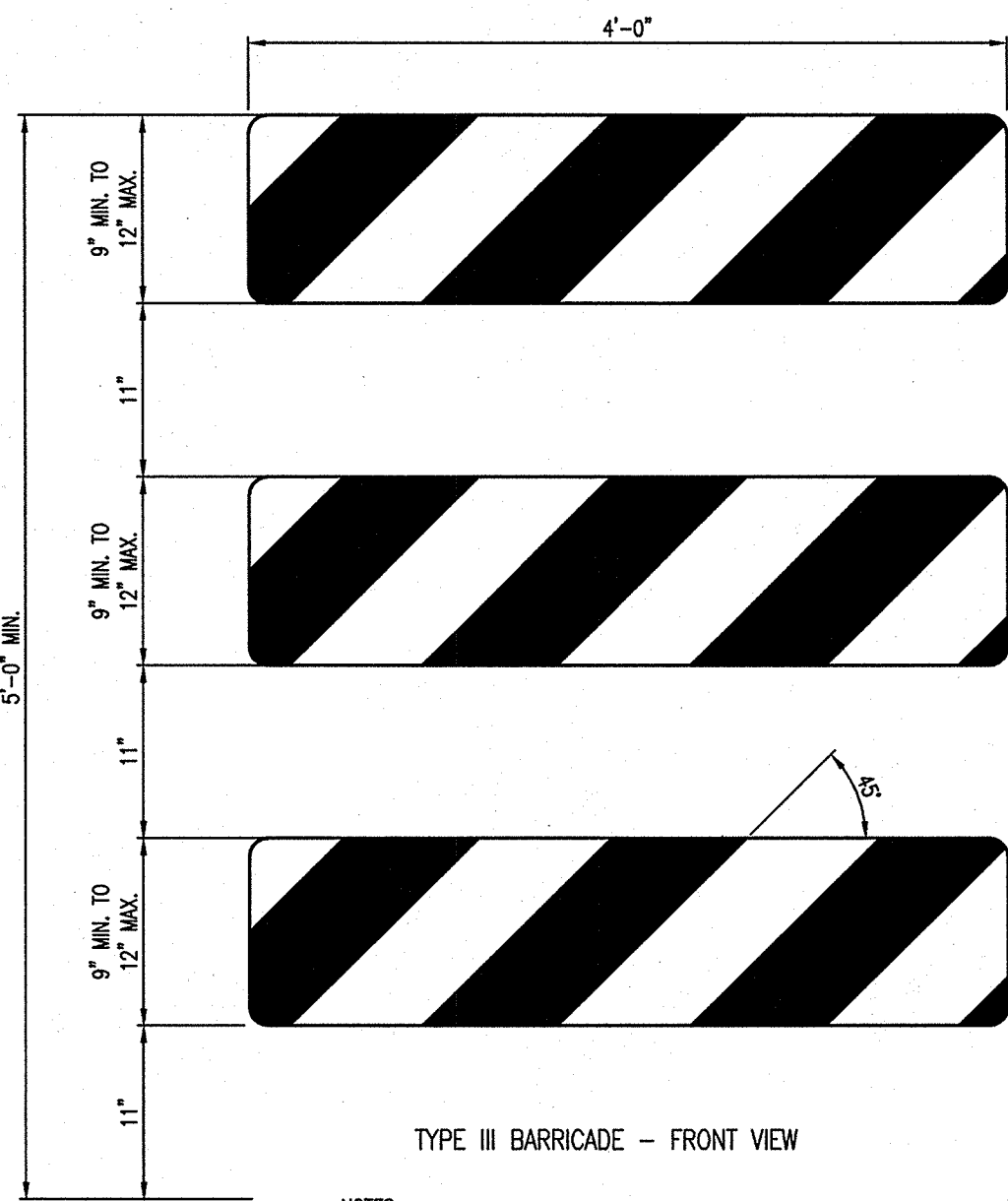
DRAWING NUMBER:

CP-5



TYPICAL STREET TRAFFIC CONTROL PLAN

SCALE: NTS



NOTES:

1. THE 9" MIN. x 48", OR 12" MAX. x 48" BARRICADE RAILS SHALL BE FABRICATED FROM 0.125" MAX. PLASTIC SHEETING AND SHALL BE ATTACHED, 4 PER RAIL, WITH 1 INCH NO. 14 PAN HEAD METAL SCREWS OR PLASTIC RIVETS. ALL CORNERS SHALL BE ROUNDED.
2. ORANGE AND SILVER (WHITE) STRIPES SHALL BE RETROREFLECTIVE SHEETING, ASTM D 4956 TYPE III, AS SHOWN FOR CONSTRUCTION SIGNS. ALTERNATE ORANGE AND SILVER (WHITE) STRIPES 6" WIDE SLOPING DOWNWARD AT AN ANGLE OF 45 DEGREES IN THE DIRECTION TRAFFIC IS TO PASS.
3. IF NECESSARY, THE SANDBAGS SHALL BE FABRICATED AND PLACED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION.
4. THE FRAMING FOR BARRICADE PANELS SHALL BE NCHRP-350 CRASHED TESTED AND FHWA APPROVED.

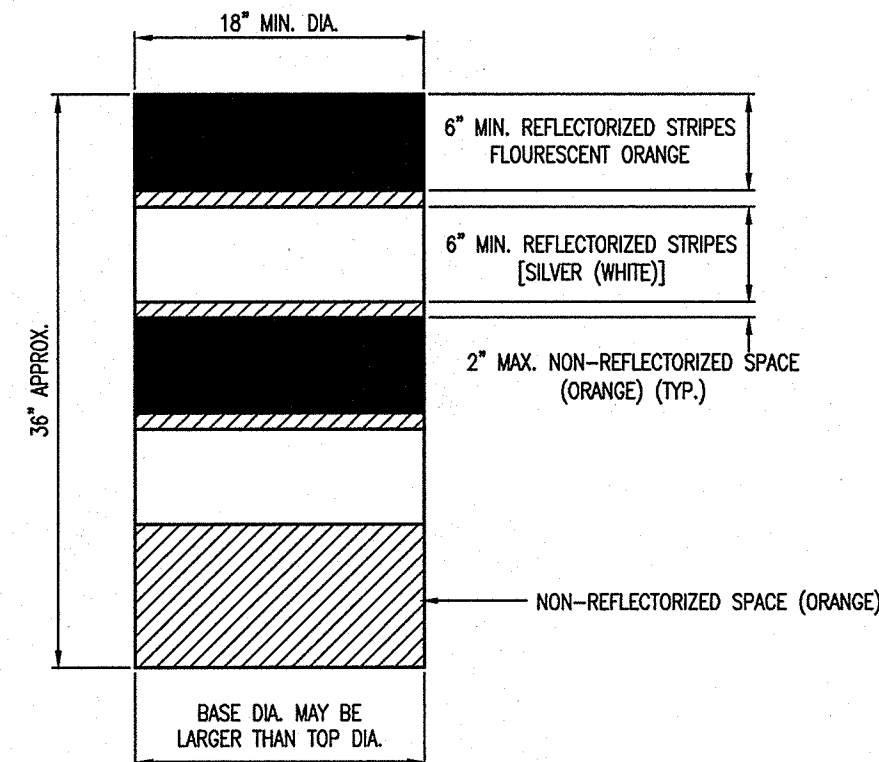
BREAKAWAY BARRICADES

SCALE: NTS

DRUMS SHALL BE MADE OF ORANGE PLASTIC WITH A MINIMUM OF FOUR ALTERNATE FLUORESCENT ORANGE AND SILVER (WHITE) RETROREFLECTIVE STRIPES. IF THERE ARE NON-REFLECTORIZED SPACES BETWEEN THE STRIPES, THEY SHALL BE NO MORE THAN 2" WIDE. RETROREFLECTIVE SHEETING FOR STRIPES SHALL CONFORM WITH ASTM D 4956 S2 REQUIREMENTS AND SHALL BE FROM THE APPROVED PRODUCTS LIST MAINTAINED BY THE BUREAU OF QUALITY MANAGEMENT SERVICES, NEW TECHNOLOGIES AND PRODUCTS SECTION.

THE TOP OF THE DRUM SHALL NOT BE OPEN. DRUMS SHALL BE CONSTRUCTED TO INHIBIT ROLLING IF KNOCKED OVER.

THE REFLECTORIZED AREA OF DRUMS SHALL BE ROUND EXCEPT THAT OTHER SHAPES, WHICH PROVIDE THE SAME VISIBILITY AS AN 18 INCH DIAMETER ROUND DRUM REGARDLESS OF ORIENTATION, MAY BE USED IF APPROVED BY THE BUREAU OF MATERIALS.



WHEN BALLAST IS REQUIRED BY THE ENGINEER, SAND SHALL BE USED. THE MAXIMUM WEIGHT OF THE BALLAST SHALL BE 50 LBS. AND BE LOCATED APPROXIMATELY AT GROUND LEVEL. ALTERNATE TYPES OF BALLAST SHALL BE APPROVED BY THE ENGINEER.

DRUM DETAIL

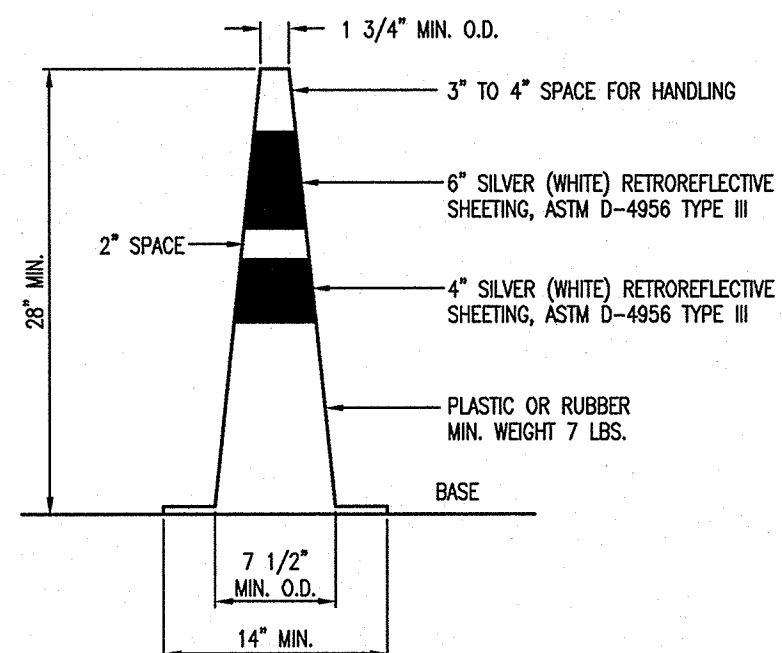
SCALE: NTS

NOTES:

TRAFFIC CONES SHALL BE PREDOMINATELY ORANGE IN COLOR.

BASES MAY BE OF BREAKAWAY BALLASTED TYPE.

MINOR MANUFACTURER'S VARIATIONS MAY BE ACCEPTABLE UPON APPROVAL OF THE ENGINEER.



TRAFFIC CONES

SCALE: NTS

REGULATORY APPROACH SPEED OF TRAFFIC MILES/HOUR	RECOMMENDED SITE DISTANCE TO BEGINNING OF CHANNELIZING TAPERS		
	DESIRABLE		MINIMUM
	RURAL FEET	URBAN FEET	RURAL AND URBAN FEET
25	375	525	150
30	450	625	200
35	525	725	250
40	600	825	325
45	675	925	400
50	750	1025	475
55	825	1125	550
60	900	1225	625
65	1050		725

NOTES:

1. AVOIDANCE MANEUVER IS FOR A SPEED, PATH, AND/OR DIRECTION CHANGE PRIOR TO THE BEGINNING OF CHANNELIZING TAPERS.
2. RECOMMENDED DISTANCES BETWEEN TWO SEPARATE LANE CLOSURES SHALL BE DOUBLE THE VALUES SHOWN ABOVE.
3. RURAL AND URBAN ROAD DESIGNATIONS SHALL BE AS DEFINED IN THE NJDOT STATE HIGHWAY STRAIGHT LINE DIAGRAMS.
4. DESIRABLE VALUES SHALL BE PROVIDED WHEREVER POSSIBLE. IF IT IS NOT FEASIBLE OR PRACTICAL TO PROVIDE DESIRABLE VALUES BECAUSE OF HORIZONTAL OR VERTICAL CURVATURE OR IF RELOCATION OF THE TAPER IS NOT POSSIBLE, THEN MINIMUM VALUES CAN BE APPLIED. WHEN MINIMUM VALUES ARE USED, SPECIAL ATTENTION SHOULD BE GIVEN TO THE USE OF SUITABLE TRAFFIC CONTROL DEVICES FOR PROVIDING ADVANCED WARNING OF THE CONDITIONS THAT ARE LIKELY TO BE ENCOUNTERED.
5. TAPERS SHALL BE LOCATED TO MAXIMIZE THE VISIBILITY OF THEIR TOTAL LENGTH.

GENERAL NOTES

1. ADVANCE WARNING SIGNS, DISTANCES, AND TAPER LENGTHS MAY BE EXTENDED, AT DIRECTION OF THE ENGINEER, TO ADJUST FOR REDUCED VISIBILITY DUE TO HORIZONTAL AND VERTICAL CURVATURE OF THE ROADWAY.

2. THE APPROXIMATE LOCATIONS OF THE ILLUMINATED FLASHING ARROW BOARDS ARE SHOWN ON THE TRAFFIC CONTROL PLANS. THESE LOCATION S MAY BE MODIFIED TO ADJUST FOR VISIBILITY DUE TO HORIZONTAL OR VERTICAL CURVATURE OF THE ROADWAY OR TO POSITION AT A SAFER LOCATION. ILLUMINATED FLASHING ARROW BOARDS ARE TO BE USED FOR TEMPORARY LANE CLOSINGS AND AT LOCATIONS SHOWN ON THE TRAFFIC CONTROL PLANS.

3. PRIOR TO ANY ROAD CONSTRUCTION, TRAFFIC CONTROL SIGNS AND DEVICES SHALL BE IN PLACE.

4. RAMP AND/OR SIDE STREETS ENTERING THE ROADWAY AFTER THE FIRST ADVANCE WARNING SIGN SHALL BE PROVIDED WITH AT LEAST ONE W20-1F SIGN (ROAD WORK AHEAD) AS A MINIMUM.

5. ALL EXISTING ROAD SIGNS, PAVEMENT MARKINGS AND/OR PLOWABLE PAVEMENT REFLECTORS WHICH CONFLICT WITH THE PROPOSED TRAFFIC CONTROL PLAN SHALL BE COVERED, REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER.

6. CONFLICTING OR NON-OPERATING SIGNAL INDICATIONS ON EITHER THE EXISTING, TEMPORARY, OR PROPOSED TRAFFIC SIGNAL SYSTEMS SHALL BE BAGGED OR COVERED.

7. MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES - PART VI "STANDARD AND GUIDES FOR TRAFFIC CONTROL FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE, UTILITY, AND INCIDENT MANAGEMENT OPERATIONS", UNLESS OTHERWISE NOTED IN THE PLANS AND SPECIFICATIONS, AND SHALL BE APPROVED BY THE ENGINEER.

8. CONSTRUCTION SIGN W99-2 (GIVE US A BRAKE) SHALL BE LOCATED 200 FEET IN ADVANCE OF PROJECT LIMITS.

9. A W1-6 (ARROW) SIGN MOUNTED ON A BREAKAWAY BARRICADE AND CENTERED ON THE CLOSED WIDTH SHALL BE LOCATED 100 FEET BEYOND EACH INTERSECTION OR MAIN ACCESS POINT WITHIN THE AREA OF A LANE OR SHOULDER CLOSURE.

10. CONSTRUCTION SIGNS R11-4 (ROAD CLOSED TO THRU TRAFFIC) SHALL BE PLACED AT THE INTERSECTING STREETS WHICH ARE CLOSED TO TRAFFIC BECAUSE OF CONSTRUCTION.

11. CONSTRUCTION SIGNS W8-9A (SYMBOL FOR UNEVEN PAVEMENT) AND W8-14A (GROOVED PAVEMENT) SHALL BE USED WHEN SUCH PAVEMENT CONDITIONS EXIST. THE PLACEMENT OF THESE SIGNS SHALL BE AS DIRECTED BY THE ENGINEER.

12. MOVING WORK AREAS IN A PERMANENT LANE CLOSURE REQUIRE A TRAILER MOUNTED ILLUMINATED FLASHING TRUCK MOUNTED CRASH CUSHION THAT SHALL MOVE WITH THE WORK AREAS TO KEEP A 75 FOOT MINIMUM AND 175 FOOT MAXIMUM BUFFER IN ADVANCE OF EACH WORK AREA.

13. THE CONTRACTOR SHALL SUBMIT A PLAN FOR THE SAFE ACCESS OF CONSTRUCTION VEHICLES THROUGHOUT THE WORK SITE WHERE SPACE CONSTRAINTS PREVENT THE USE OF LANE CLOSURES. THE PLAN SHALL BE SUBMITTED TO THE ENGINEER IN ACCORDANCE WITH SECTION 617 OF THE STANDARD SPECIFICATIONS.

14. TRAFFIC SAFETY SERVICES SHALL BE USED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL, SECTION 617.

15. ALL EXCAVATED AREAS WITHIN OR ADJACENT TO THE ROADWAY SHALL BE BACKFILLED AND PLACED ON A MINIMUM 8H:1V SLOPE PRIOR TO THE END OF EACH WORK DAY. OTHER EXCAVATED AREAS WITHIN THE CLEAR ZONE ARE TO BE EITHER BACKFILLED OR A PRECAST CONCRETE CURB CONSTRUCTION BARRIER SET TEMPORARILY IN PLACE TO SHIELD VEHICULAR AND PEDESTRIAN TRAFFIC.

16. WHERE REQUIRED, THE CONTRACTOR SHALL MAKE PROVISIONS FOR MAINTAINING PEDESTRIAN CROSSING LOCATIONS AND TYPE AS DIRECTED BY THE ENGINEER.

17. BITUMINOUS CONCRETE PLACED DURING THE VARIOUS CONSTRUCTION STAGES SHALL BE TRANSITION ON A MINIMUM 20H:1V SLOPE TO MEET THE ADJACENT EXISTING GRADE AT THE LONGITUDINAL AND TRANSVERSE LIMITS OF THE STAGE CONSTRUCTION AREAS UNLESS OTHERWISE NOTED ON THE STAGE CONSTRUCTION PLANS.

18. THE PLACEMENT AND OR RELOCATION OF PRECAST CONCRETE CURB CONSTRUCTION BARRIER SHALL BE DONE DURING APPROVED OFF-PEAK HOURS WHEN TRAFFIC MAY BE REDUCED TO ONE LANE IN EACH DIRECTION.

19. CONSTRUCTION ZONE SPEED LIMIT WILL BE DETERMINED BY THE REGIONAL TRAFFIC ENGINEER AT THE TIME OF OR DURING CONSTRUCTION, AS REQUESTED BY THE RESIDENT ENGINEER.

20. THE SPEED LIMIT, R2-1 (BLACK ON WHITE) SIGN SHALL BE LOCATED THROUGH WORK AREAS AS DIRECTED BY THE REGIONAL TRAFFIC ENGINEER.

21. THE REDUCED SPEED AHEAD SIGN, R2-5A(S) (BLACK ON WHITE) SHALL BE LOCATED IN ADVANCE OF SPEED LIMIT R2-1 SIGNS WHICH REDUCE THE NORMAL POSTED SPEED LIMIT THROUGH THE CONSTRUCTION ZONE.

22. TRAFFIC FINES DOUBLED IN WORK AREA (R/N)5-17(S), 4 FEET BY 2.5 FEET SIGN SHALL BE LOCATED 500 FEET AFTER THE FIRST ADVANCE WARNING SIGN (W20 SERIES) AT EACH WORK AREA LOCATED WITHIN URBAN AREAS. THIS SIGN SHALL ALSO BE USED ON PROJECTS REQUIRING MOVING OPERATIONS IN WHICH CASE THE SIGN SHALL BE MOUNTED ON A SLOW MOVING CONSTRUCTION VEHICLE.

23. THE FINAL BITUMINOUS CONCRETE SURFACE PAVEMENT SHALL NOT BE CONSTRUCTED UNTIL THE FINAL STAGE OF THE PROJECT. MANHOLES AND INLETS SHALL BE SET TO FINISHED GRADE AND TEMPORARY PAVEMENT RAMPS ARE TO BE CONSTRUCTED AROUND THEM WITH A MINIMUM 20H:1V SLOPE IN ALL DIRECTIONS USING HOT MIX ASPHALT PAVEMENT. THIS TEMPORARY MATERIAL WILL BE REMOVED IMMEDIATELY PRIOR TO PLACING THE SURFACE COURSE.

24. TRAFFIC CONTROL DEVICES FOR LANE CLOSURES INCLUDING SIGNS, CONES, BARRICADES, ETC. SHALL BE PLACED AS SHOWN ON PLANS. SIGNS SHALL NOT BE PLACED WITHOUT ACTUAL LANE CLOSURES AND SHALL BE IMMEDIATELY REMOVED UPON REMOVAL OF THE CLOSURES.

25. CONES MAY BE SUBSTITUTED FOR DRUMS AND INSTALLED UPON THE APPROVAL OF THE ENGINEER.

REGULATORY APPROACH SPEED OF TRAFFIC MILES/HOUR	RECOMMENDED TAPER LENGTH AND SPACING FOR CHANNELIZING TAPERS				RECOMMENDED SPACING ALONG TANGENTS	
	MINIMUM TAPER RATIO IN LENGTH PER FOOT OF WIDTH	MINIMUM TAPER LENGTH L - FOR LANE WIDTHS		MAXIMUM DEVICE (B) SPACING ALONG TAPERS IN FEET	MAXIMUM DEVICE (D) SPACING ALONG TANGENTS IN FEET	
		10'	11'	12'		
25	10.5:1	105	115	125	25	60
30	15:1	150	165	180	30	80
35	20.5:1	205	225	245	35	70
40	27:1	270	300	325	40	80
45	45:1	450	485	540	45	90
50	50:1	500	550	600	50	100
55	55:1	550	605	660	55	110
60	60:1	600	660	720	60	120
65	65:1	650	715	780	65	130

NOTE

THE MAXIMUM DEVICE SPACING ALONG CURVES SHALL BE AS DEFINED FOR TAPERS (B) IN THE ABOVE TABLE.



BACH Associates, PC
ENGINEERS • ARCHITECTS • PLANNERS

304 White Horse Pike
Haddon Heights, New Jersey 08035
Tel: 856-546-8611
Fax: 856-546-8612
www.BachDesignGroup.com

SEALS:



STEVEN M. BACH, PE, RA, PP, CME
NJ PROFESSIONAL ENGINEER No. GE 41507
NJ REGISTERED ARCHITECT No. AI 14872
NJ PROFESSIONAL PLANNER No. LI 05557

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER. MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

PROJECT:

**FY 2009 N.J.D.O.T. TRUST FUND
RECONSTRUCTION OF
PARKER AVENUE
CAMDEN COUNTY CDBG PROGRAM
YEAR 31 FUNDING**
BOROUGH OF WOODLYNNE
CAMDEN COUNTY, NEW JERSEY

ALL DOCUMENTS PREPARED BY BACH ASSOCIATES, PC ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN PERMISSION OR ADAPTATION BY BACH ASSOCIATES, PC FOR THE SPECIFIC PURPOSES INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO BACH ASSOCIATES, PC AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS BACH ASSOCIATES, PC FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

REVISIONS		
NO.	DESCRIPTION	DATE

DRAWING TITLE:

TRAFFIC CONTROL PLAN

JOB NO: WDLYN2008-4	DESIGNED BY: SRD
DATE: 03/18/09	DRAWN BY: ATS
SCALE: 1"=30'	CHECKED BY: BS

DRAWING NUMBER:

CP-6