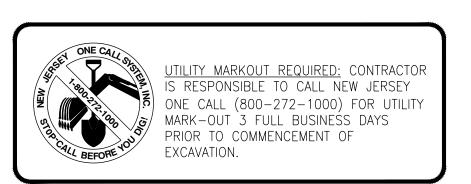
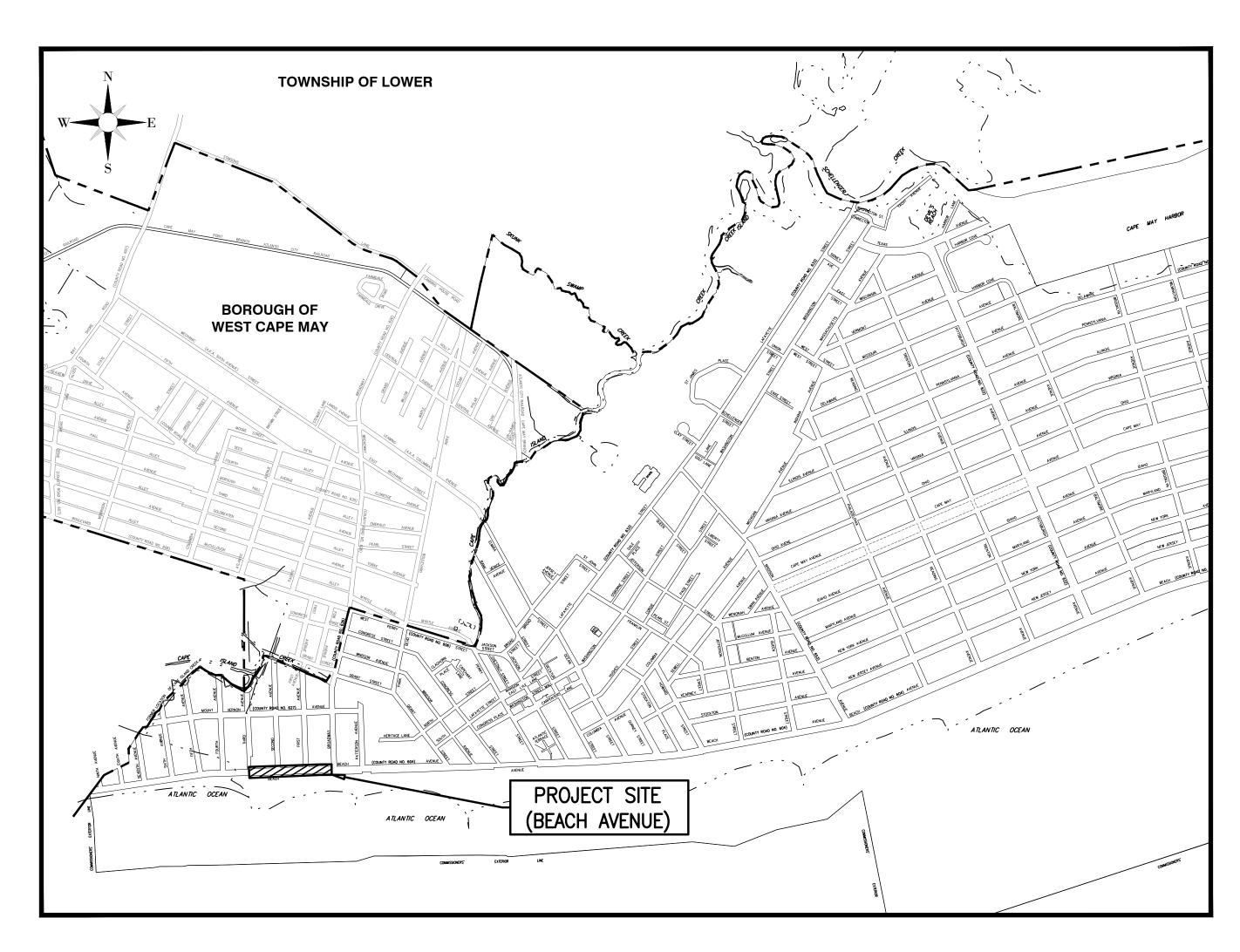
# RECONSTRUCTION OF BEACH AVENUE

(BROADWAY TO THE COVE)

	UTILITIES
PUBLIC WORKS:	CITY OF CAPE MAY PUBLIC WORKS DEPARTMENT ERIC PRUSINSKI, SUPERINTENDENT 830 CANNING HOUSE LANE CAPE MAY, NJ 08204 609-884-9570
SEWER:	CITY OF CAPE MAY SEWER DEPARTMENT ROBERT CUMMISKEY, SUPERINTENDENT 643 WASHINGTON STREET CAPE MAY, NJ 08204 609-884-9576
	CAPE MAY COUNTY M.U.A. THOMAS J. LAROCCO, P.E. 1523 ROUTE 9 NORTH, CAPE MAY COURT HOUSE, NJ 08210 609-465-9026
WATER:	CITY OF CAPE MAY WATER DEPARTMENT ROBERT CUMMISKEY, SUPERINTENDENT 643 WASHINGTON STREET CAPE MAY, NJ 08204 609-884-9576
ELECTRIC:	ATLANTIC CITY ELECTRIC COMPANY KENNETH ATWOOD 420 ROUTE 9 NORTH CAPE MAY COURT HOUSE, NJ 08210 609-463-3816
CABLE:	COMCAST CABLE JIM FAULKNER 1846 NW BOULEVARD VINELAND, NJ 08360 800-934-6489
GAS:	SOUTH JERSEY GAS COMPANY JEREMIAH LIN 1708 ROUTE 9 NORTH CAPE MAY COURT HOUSE, NJ 08210 609-465-2900
TELEPHONE:	VERIZON ENGINEERING DEPARTMENT GREGORY ANGSTMAN 10 TANSBORO ROAD, FLOOR 2 BERLIN, NJ 08009 856-306-8590
COUNTY ROADS:	CAPE MAY COUNTY PUBLIC WORKS ROBERT CHURCH, P.E. 4 MOORE ROAD CAPE MAY COURT HOUSE, NJ 08210 609-465-1035





PROJECT LOCATION MAP



# CITY OF CAPE MAY CAPE MAY COUNTY, NEW JERSEY

2019 N.J.D.O.T. STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION SHALL GOVERN, EXCEPT FOR THOSE DETAILS CONTAINED HEREIN

	INDEX OF SHEETS				
SHEET NO.	DESCRIPTION				
1	TITLE SHEET				
2	ESTIMATE OF QUANTITIES, NOTES, LEGEND & TYPICAL SECTION				
3	UTILITY PLAN & PROFILE				
4 - 6	ROADWAY PLAN & PROFILE				
7	STRIPING PLAN				
8 - 10	CONSTRUCTION DETAILS				
11	SOIL EROSION & SEDIMENT CONTROL PLAN				
12	TRAFFIC CONTROL PLAN & DETAILS				

STANDARD N.J.D.O.T. ROADWAY

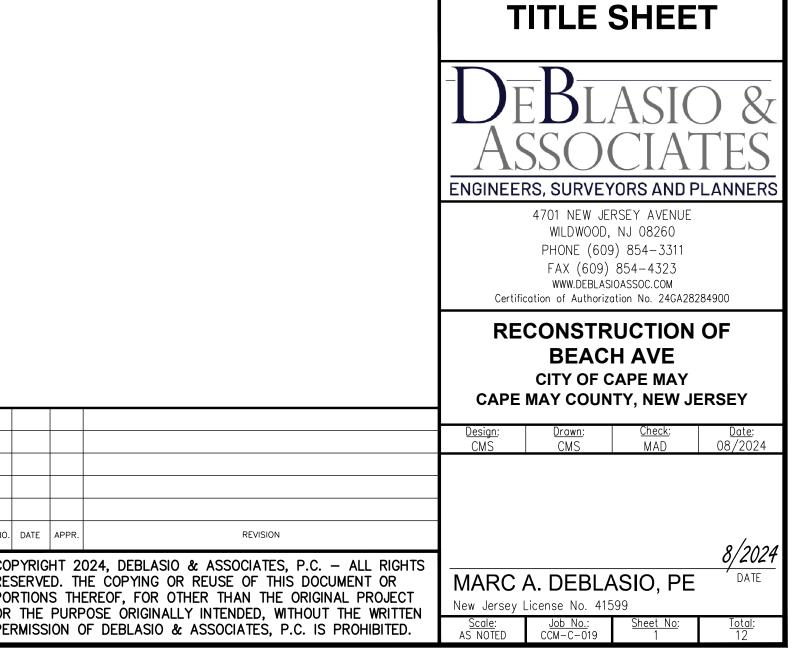
CONSTRUCTION—TRAFFIC CONTROL—BRIDGE

CONSTRUCTION DETAILS BOOKLET, 2016

ARE APPLICABLE TO THIS PROJECT

EXCEPT FOR THOSE DETAILS CONTAINED

HERFIN.



# **LEGEND**EXISTING

TRAVERSE POINT
FIRE HYDRANT
SIGN
UTILITY POLE
43.02
SPOT ELEVATION
LP CHARGE
GAS METER
WATER METER
WATER CURBSTOP/SHUT-OFF

WATER VALVE

GAS VALVE/SHUT-OFF

SANITARY CLEANOUT

STREET SIGN

"B" INLET

"A" INLET

"E" INLET

STORM MANHOLE

SANITARY MANHOLE

ELECTRIC MANHOLE

TELEPHONE MANHOLE

CURBING

CONCRETE

STORM DRAINS

WATER MAIN SANITARY MAIN

GAS MAIN

FORCE MAIN

ELECTRIC CONDUIT

OVERHEAD WIRES

RIGHT-OF-WAY LINE

DECIDUOUS TREE

EVERGREEN TREE

# PROPOSED

FIRE HYDRANT

UTILITY POLE

LIGHT POLE

WATER METER

WATER VALVE

"B" INLET

"A" INLET

"E" INLET

CURBING

CONCRETE

=====

—s—

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TCXX.XX

TDCXX.XX

GLXX.XX

STORM DRAINS

WATER MAIN

GAS MAIN

SANITARY MAIN

ELECTRIC CONDUIT

OVERHEAD WIRES

PROPOSED CONTOUR

(PROPOSED TOP OF CURB)

(PROPOSED GUTTER LINE)

PROPOSED SILT FENCE

PROPOSED TEST PIT

PROPOSED INLET PROTECTION

(PROPOSED TOP OF DEPRESSED CURB)

STORM MANHOLE

SANITARY MANHOLE

SANITARY CLEANOUT

SPOT ELEVATION

SIGN

1) SITE CONSTRUCTION TO BE IN ACCORDANCE WITH NEW JERSEY STATE DEPARTMENT OF TRANSPORTATION STANDARDS FOR ROAD AND BRIDGE CONSTRUCTION, 2019 (LATEST ADDENDUM), WHICH SHALL GOVERN. 2016 STANDARD CONSTRUCTION DETAILS — ROADWAY — TRAFFIC CONTROL — BRIDGE ARE APPLICABLE TO THIS PROJECT EXCEPT FOR THOSE DETAILS CONTAINED HEREIN. CONTRACTOR SHALL VERIFY THE LOCATION OF ANY UNDERGROUND ELECTRICAL CONDUIT AND IDENTIFY SAME PRIOR TO STARTING ANY EXCAVATION. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE TOWNSHIP, COUNTY, AND STATE AND SHALL PAY ALL FEES, INCLUDING THE INSPECTION FEES, AND IN GENERAL SHALL PROCURE ALL REQUIRED PERMITS, LICENSES, INSPECTIONS, PAY ALL CHARGES AND FEES, AND GIVE NOTICES NECESSARY FOR AND INCIDENTAL TO THE DUE AND LAWFUL PROSECUTION OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING THE PAVING, TOPSOIL, FERTILIZING AND SEEDING ALL AREAS DISTURBED BY HIS ACTIVITIES. INSPECTION OF, OR FAILURE TO INSPECT ANY MATERIALS OR WORKMANSHIP, SHALL IN NO WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM THE WORK IN ACCORDANCE WITH APPLICABLE PLANS, SPECIFICATIONS, AND LAW.

**GENERAL NOTES** 

THE CONTRACTOR WILL PRESERVE AND PROTECT ALL EXISTING VEGETATION, SUCH AS TREES, SHRUBS, AND GRASS ON OR ADJACENT TO THE SITE, WHICH DO NOT REASONABLY INTERFERE WITH THE CONSTRUCTION AS MAY BE DETERMINED BY THE DESIGN ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR UNAUTHORIZED CUTTING OR DAMAGING OF TREES AND SHRUBS, MATERIALS, OR TRACKING OF GRASS AREAS BY EQUIPMENT. CARE SHALL BE TAKEN BY THE CONTRACTOR IN FELLING TREES AUTHORIZED FOR REMOVAL TO AVOID ANY UNNECESSARY DAMAGE TO VEGETATION THAT IS TO REMAIN IN PLACE. THE CONTRACTOR SHALL BE LIABLE FOR OR MAY BE REQUIRED TO REPLACE OR RESTORE, AT HIS EXPENSE, ALL VEGETATION NOT PROTECTED AND PRESERVED AS REQUIRED HEREIN THAT MAY BE DESTROYED OR DAMAGED.

THE CONTRACTOR SHALL ACKNOWLEDGE PRIOR TO CONSTRUCTION THAT HE/SHE HAS SATISFIED THEMSELVES AS TO THE NATURE AND LOCATION OF THE WORK, THE GENERAL AND LOCAL CONDITIONS, PARTICULARLY THOSE BEARING ON TRANSPORTATION, HANDLING AND STORAGE OF MATERIALS, THE CHARACTER OF THE EQUIPMENT AND FACILITIES NEEDED DURING THE PROSECUTION OF THE WORK AND ALL OTHER MATTERS WHICH CAN IN ANY WAY AFFECT THE WORK OR THE COST THEREOF UNDER THIS CONTRACT. ANY FAILURE OF THE CONTRACTOR TO ACQUAINT THEMSELVES WITH THE AVAILABLE INFORMATION CONCERNING THOSE CONDITIONS WILL NOT RELIEVE HIM FROM RESPONSIBILITY FOR ESTIMATING PROPERLY THE DIFFICULTIES OR COST OF SUCCESSFULLY PERFORMING THE WORK.

- 4) ALL MATERIALS, METHODS, AND DETAILS OF IMPROVEMENT CONSTRUCTION SHALL CONFORM TO THE REGULATIONS OF CITY OF CAPE MAY, CAPE MAY COUNTY, AND/OR THE APPROPRIATE UTILITY COMPANY, WHICHEVER REGULATION TAKES PRECEDENCE.
- 5) ALL CONCRETE FOR SIDEWALKS AND CURB SHALL BE OF A MIX TO ENSURE A 28 DAY STRENGTH OF 4,000 PSI
- AND HAVE A MINIMUM AIR CONTENT OF 5%.

  6) THE CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR ENSURING THAT ALL WORK PERFORMED CONFORMS TO ALL THE APPLICABLE STATUTES, REGULATIONS, ORDINANCES, AND STANDARDS OF GOVERNMENTAL BODIES HAVING JURISDICTION OVER SUCH WORK. THE RESPONSIBILITY SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
  - A. CONFORMITY WITH THE APPROVED PLANS AS WELL AS STANDARDS AND SPECIFICATIONS OF THE CITY OF CAPE MAY.

    B. CORRECTION OF ALL DEFECTS OF THE WORK, NO MATTER WHAT THE CAUSE, UNTIL THE DATE OF THE
  - ACCEPTANCE, AND THEREAFTER, FOR THE PERIOD OF ANY GUARANTEE WHICH RUNS BEYOND THE DATE OF ACCEPTANCE.

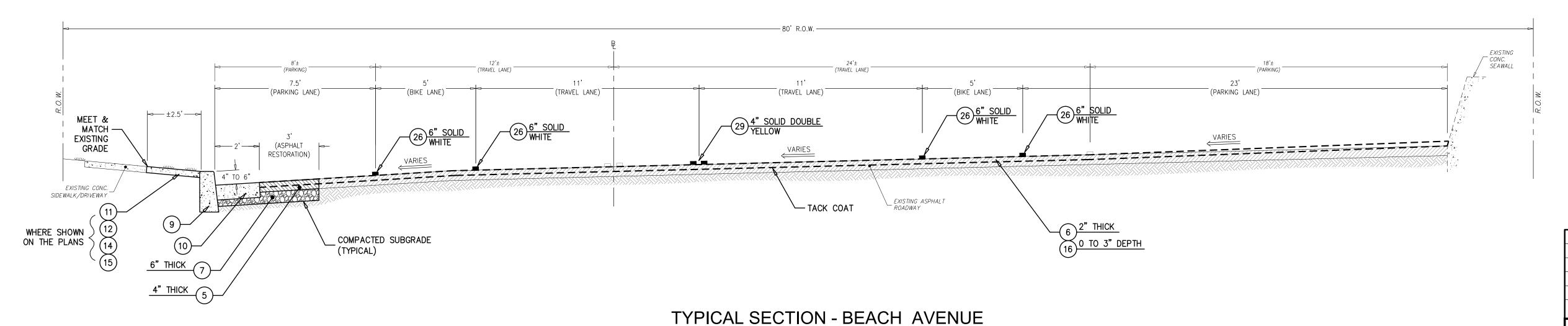
    C. SOLUTION OF ANY PROBLEM. UNFORESEEN AT THE TIME OF THE APPROVAL OF THE PLAN. WHICH MAY
  - C. SOLUTION OF ANY PROBLEM, UNFORESEEN AT THE TIME OF THE APPROVAL OF THE PLAN, WHICH MAY OR DO IMPAIR THE INTEGRITY OF ANY IMPROVEMENTS, INCLUDING PROBLEMS SUCH AS HIGH GROUND WATER, UNSTABLE SOIL, ETC.
- 7) CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PUBLIC SAFETY AND SECURING THE SITE AT ALL TIMES.

  8) CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL PUBLIC RIGHTS OF WAY AND ADJACENT PROPERTIES

  CLEAN AND SAFE FROM EXCESSIVE DUST AND DEBRIS RESULTING FROM DEMOLITION AND/OR CONSTRUCTION.
- 9) THE LOCATION OF ANY UTILITIES SHOWN ON THE PLANS ARE ONLY APPROXIMATE. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION PRIOR TO BEGINNING EXCAVATION OR COMMENCING CONSTRUCTION AND SHALL BE FULLY RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES IN THE VICINITY OF THE PROJECT. NEW JERSEY ONE CALL WILL PROVIDE FOR ON-SITE DELINEATION OF EXISTING UTILITIES UPON REQUEST (1-800-272-1000).
- 10) EXISTING MATERIALS DESIGNATED FOR REMOVAL SHALL BE REMOVED BY THE CONTRACTOR UNLESS OTHERWISE DIRECTED BY THE OWNER.
- 11) DISTURBED AREAS SHALL BE RESTORED AS SOON AS PRACTICAL.
- 12) THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF THERE ARE ANY DISCREPANCIES FOUND BETWEEN THE DRAWINGS AND SPECIFICATIONS AND THE SITE CONDITIONS. THE CONTRACTOR SHALL PROCEED AT HIS OWN RISK PRIOR TO THE RESOLUTION IF ANY DISCREPANCIES.
- 13) THE CONTRACTOR SHALL COORDINATE WATER MAIN SHUT DOWNS, RESETTING OF WATER VALVE BOXES, AND SANITARY CLEANOUTS WITH THE CAPE MAY CITY WATER AND SEWER DEPARTMENT.
- 14) SEPARATE PAYMENT WILL NOT BE MADE FOR CONSTRUCTION LAYOUT, SAWCUTTING, SOIL EROSION AND SEDIMENT CONTROL MEASURES, DUST CONTROL, DEWATERING, BY-PASS PUMPING, CLEANING AND RESTORATIONS, REMOVAL AND DISPOSAL OF EXCESS MATERIALS OR UNWANTED MATERIALS OR DEBRIS, UNDER LAYER PREPARATION, PRIME COAT, TACK COAT, RELOCATIONS OF SIGNS OR MAILBOXES, CONDUCTORS OR CONDUITS DAMAGED DURING CONSTRUCTION, OR ANY OTHER STRUCTURES ENCOUNTERED UNLESS OTHERWISE INDICATED ON THE PLANS.
- 15) THE CONTRACTOR SHALL SUBMIT TO THE CITY OF CAPE MAY ASBUILTS PLANS AND SHALL IDENTIFY ALL CORRECTIONS THAT HAVE BEEN PERFORMED.
- 16) LIMITS OF PAVING (L.O.P.) SHALL BE SAWCUT AND SEALED WITH HOT JOINT SEALER. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE HMA SURFACE PAVING.

# ESTIMATE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	PLAN QUANTITY	IF & WHERE DIRECTED	CONTRACT QUANTITY	AS-BUILT QUANTITY
1	TRAFFIC CONTROL	LUMP SUM	LUMP SUM	0	LUMP SUM	
2	FUEL PRICE ADJUSTMENT	DOLLAR	1,000	0	1,000	
3	ASPHALT PRICE ADJUSTMENT	DOLLAR	2,000	0	2,000	
4	CLEARING SITE	LUMP SUM	LUMP SUM	0	LUMP SUM	
5	HOT MIX ASPHALT BASE COURSE, MIX 19M64, 4" THICK	TON	95	25	120	
6	HOT MIX ASPHALT SURFACE COURSE, MIX 9.5M64, 2" THICK	TON	744	56	800	
7	DENSE GRADED AGGREGATE BASE COURSE, 6" THICK	S.Y.	394	56	450	
8	INLET FILTERS, TYPE 1	S.F.	60	20	80	
9	8" x 18" CONCRETE VERTICAL CURB	L.F.	1,185	65	1,250	
10	CONCRETE GUTTER, 8" THICK	L.F.	869	31	900	
11	CONCRETE SIDEWALK, 4" THICK	S.Y.	232	18	250	
12	CONCRETE DRIVEWAY, 6" THICK	S.Y.	85	15	100	
13	DETECTABLE WARNING SURFACES	S.Y.	4	0	4	
14	SODDING	S.Y.	44	11	55	
15	RESET BRICK PAVERS	S.Y.	12	8	20	
16	HMA MILLING, 0 TO 3" DEPTH	S.Y.	5,935	65	6,000	
17	BRICK PAVER SIDEWALK	S.Y.	285	15	300	
18	REINFORCED CONCRETE BASE COURSE, 8" THICK	S.Y.	285	15	300	
19	MASONRY SEAT WALL	L.F.	75	10	85	
20	SELECT FILL	C.Y.	122	28	150	
21	INLETS, TYPE "A"	UNIT	4	0	4	
22	12" POLYVINYL CHLORIDE (PVC) STORM SEWER MAIN, SDR26	L.F.	275	25	300	
23	TEST PIT EXCAVATION	UNIT	1	1	2	
24	CLEANING AND TELEVISING STORM SEWER SYSTEM	L.F.	275	25	300	
25	TRAFFIC MARKINGS LINES, 24"	L.F.	248	22	270	
26	TRAFFIC MARKINGS LINES, 6"	L.F.	3,114	136	3,250	
27	TRAFFIC MARKINGS LINES, 4"	L.F.	1,664	36	1,700	
28	TRAFFIC MARKINGS SYMBOLS	LUMP SUM	LUMP SUM	0	LUMP SUM	
29	TRAFFIC STRIPES, 4"	L.F.	1,455	45	1,500	
30	EXCAVATION, UNCLASSIFIED	C.Y.	100	25	125	
31	DECORATIVE BOLLARDS	UNIT	6	1	7	
32	REGULATORY SIGNS AND POSTS	UNIT	1	0	1	



PHONE (609) 854-3311
FAX (609) 854-3331
FAX (609) 854-3331
FAX (609) 854-4323
WWW.DEBLASIOASSOC.COM
Certification of Authorization No. 24GA28284900

RECONSTRUCTION OF
BEACH AVE
CITY OF CAPE MAY
CAPE MAY COUNTY, NEW JERSEY

Design: CMS/MWA CMS/MWA MAD 08/2024

Design: CMS/MWA CMS/MWA MAD 08/2024

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**ESTIMATE OF** 

QUANTITIES,

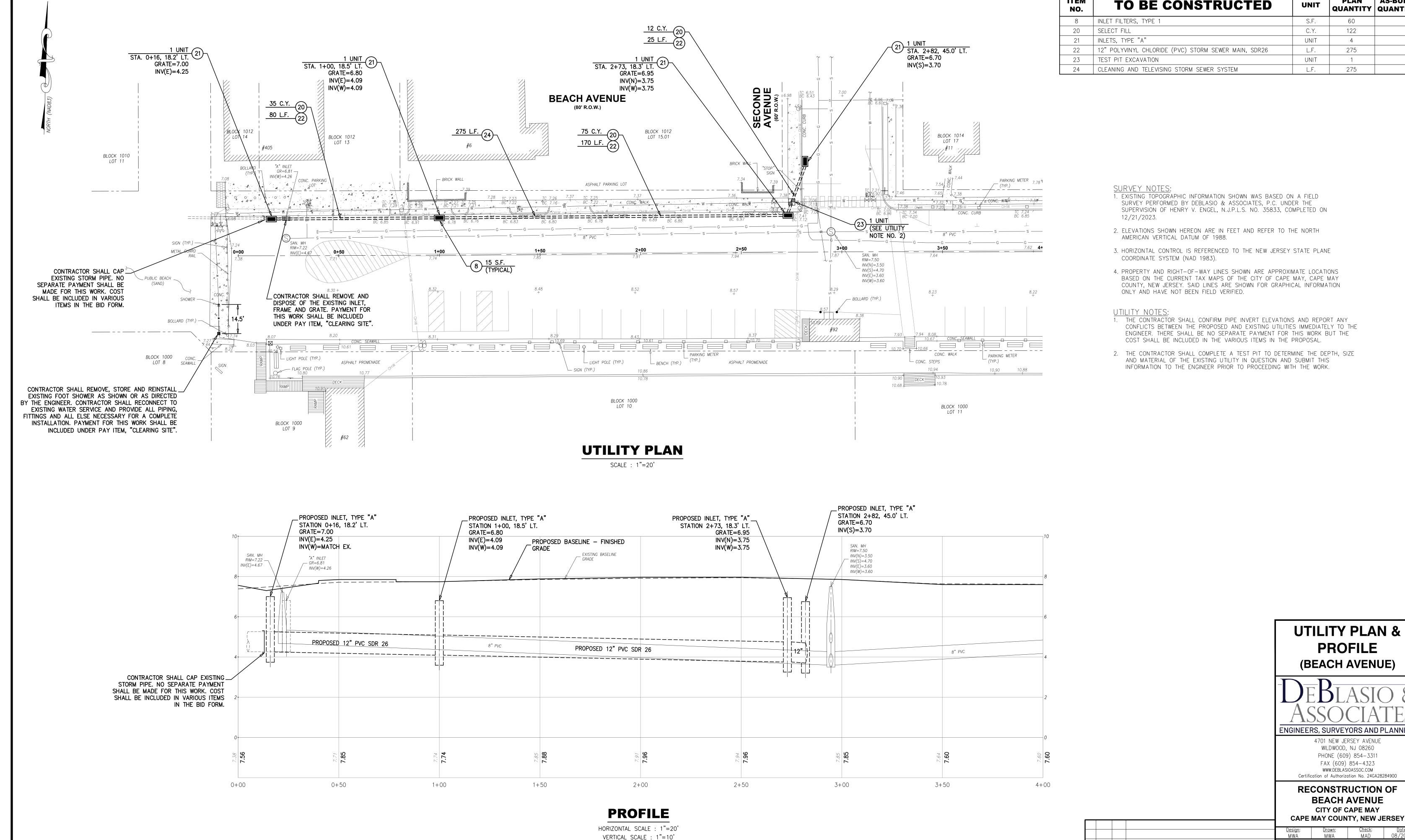
NOTES, LEGEND &

**TYPICAL SECTION** 

ENGINEERS, SURVEYORS AND PLANNER

4701 NEW JERSEY AVENUE

WILDWOOD, NJ 08260



AS-BUILT PLAN TO BE CONSTRUCTED UNIT **QUANTITY | QUANTITY** S.F. 60 C.Y. 122 UNIT 275 L.F. UNIT 1 275

- SURVEY PERFORMED BY DEBLASIO & ASSOCIATES, P.C. UNDER THE SUPERVISION OF HENRY V. ENGEL, N.J.P.L.S. NO. 35833, COMPLETED ON
- 3. HORIZONTAL CONTROL IS REFERENCED TO THE NEW JERSEY STATE PLANE
- 4. PROPERTY AND RIGHT-OF-WAY LINES SHOWN ARE APPROXIMATE LOCATIONS BASED ON THE CURRENT TAX MAPS OF THE CITY OF CAPE MAY, CAPE MAY COUNTY, NEW JERSEY. SAID LINES ARE SHOWN FOR GRAPHICAL INFORMATION
- CONFLICTS BETWEEN THE PROPOSED AND EXISTING UTILITIES IMMEDIATELY TO THE ENGINEER. THERE SHALL BE NO SEPARATE PAYMENT FOR THIS WORK BUT THE
- 2. THE CONTRACTOR SHALL COMPLETE A TEST PIT TO DETERMINE THE DEPTH, SIZE AND MATERIAL OF THE EXISTING UTILITY IN QUESTION AND SUBMIT THIS

# **UTILITY PLAN & PROFILE** (BEACH AVENUE)

# ENGINEERS, SURVEYORS AND PLANNERS

4701 NEW JERSEY AVENUE WILDWOOD, NJ 08260 PHONE (609) 854-3311 FAX (609) 854-4323 WWW.DEBLASIOASSOC.COM

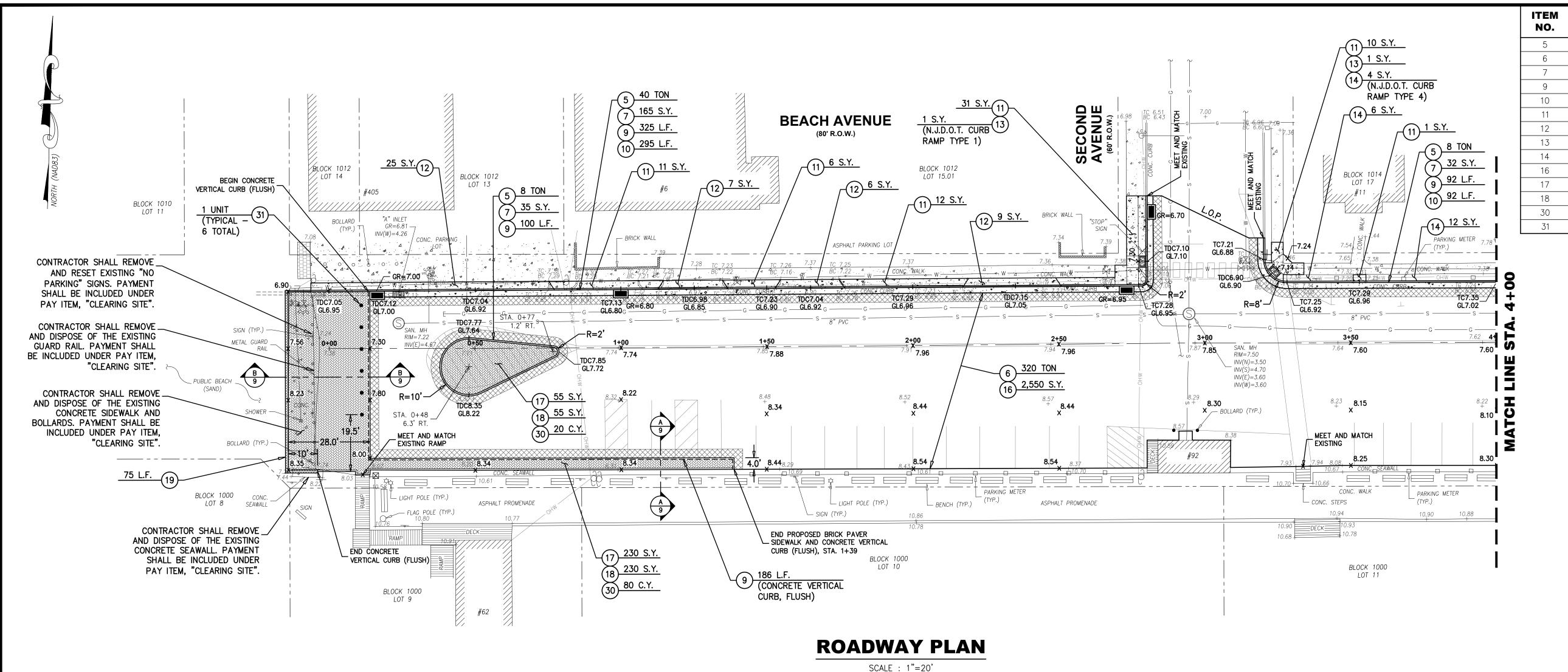
**RECONSTRUCTION OF BEACH AVENUE** CITY OF CAPE MAY

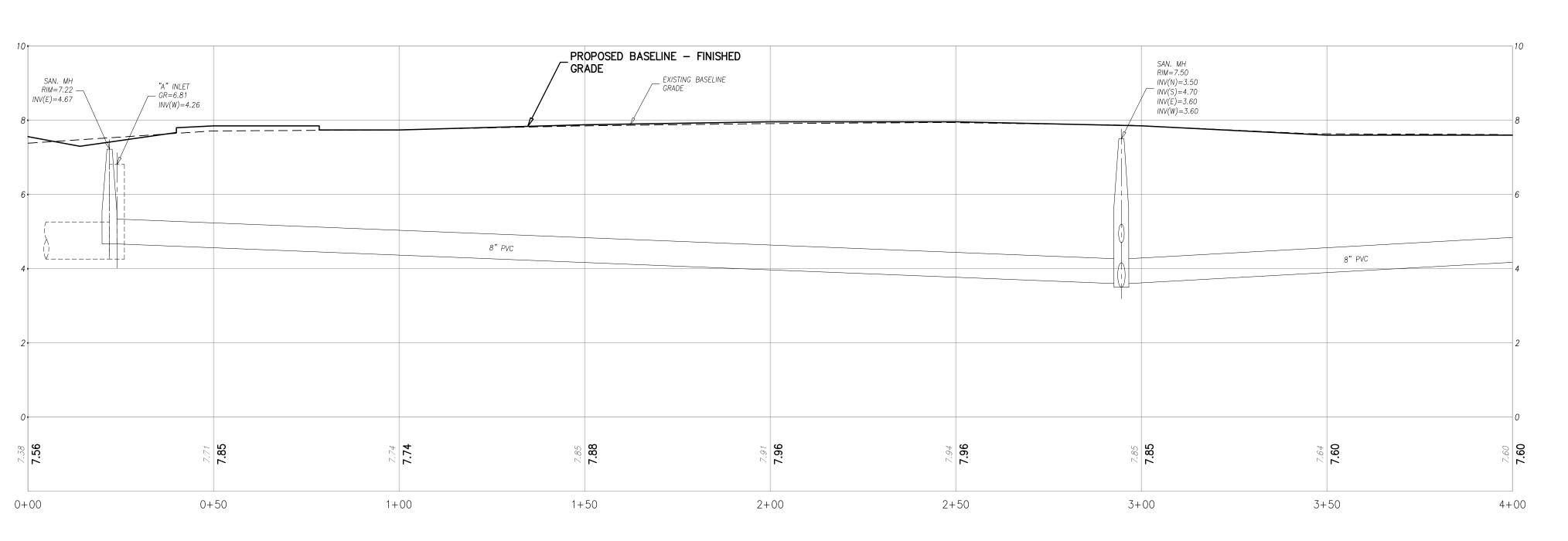
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GRAPHIC SCALE

(IN FEET) 1 inch = 20 ft. MARC A. DEBLASIO, PE





PROFILE

HORIZONTAL SCALE : 1"=20"

VERTICAL SCALE : 1"=10"

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

ITEM NO.	TO BE CONSTRUCTED	UNIT	PLAN QUANTITY	AS-BUILT QUANTITY
5	HOT MIX ASPHALT BASE COURSE, MIX 19M64, 4" THICK	TON	56	
6	HOT MIX ASPHALT SURFACE COURSE, MIX 9.5M64, 2" THICK	TON	320	
7	DENSE GRADED AGGREGATE BASE COURSE, 6" THICK	S.Y.	232	
9	8" x 18" CONCRETE VERTICAL CURB	L.F.	703	
10	CONCRETE GUTTER, 8" THICK	L.F.	387	
11	CONCRETE SIDEWALK, 4" THICK	S.Y.	71	
12	CONCRETE DRIVEWAY, 6" THICK	S.Y.	47	
13	DETECTABLE WARNING SURFACES	S.Y.	2	
14	SODDING	S.Y.	14	
16	HMA MILLING, O TO 3" DEPTH	S.Y.	2,550	
17	BRICK PAVER SIDEWALK	S.Y.	285	
18	REINFORCED CONCRETE BASE COURSE, 8" THICK	S.Y.	285	
30	EXCAVATION, UNCLASSIFIED	C.Y.	100	
31	DECORATIVE BOLLARDS	UNIT	6	

### SURVEY NOTI

- 1. EXISTING TOPOGRAPHIC INFORMATION SHOWN WAS BASED ON A FIELD SURVEY PERFORMED BY DEBLASIO & ASSOCIATES, P.C. UNDER THE SUPERVISION OF HENRY V. ENGEL, N.J.P.L.S. NO. 35833, COMPLETED ON 12/21/2023.
- 2. ELEVATIONS SHOWN HEREON ARE IN FEET AND REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
- 3. HORIZONTAL CONTROL IS REFERENCED TO THE NEW JERSEY STATE PLANE COORDINATE SYSTEM (NAD 1983).
- 4. PROPERTY AND RIGHT-OF-WAY LINES SHOWN ARE APPROXIMATE LOCATIONS BASED ON THE CURRENT TAX MAPS OF THE CITY OF CAPE MAY, CAPE MAY COUNTY, NEW JERSEY. SAID LINES ARE SHOWN FOR GRAPHICAL INFORMATION ONLY AND HAVE NOT BEEN FIELD VERIFIED.

### ROADWAY NOTES:

- 1. LIMITS OF PAVING (L.O.P.) SHALL BE SAWCUT FULL DEPTH AND SEALED WITH HOT-POURED JOINT SEALER, MEET AND MATCH EXISTING PAVEMENT ELEVATIONS. THERE SHALL BE NO SEPARATE PAYMENT FOR THIS WORK BUT THE COST SHALL BE INCLUDED IN THE SURFACE
- 2. LIMITS OF SIDEWALK REPLACEMENT SHALL BE SAWCUT TO A NEAT AND CLEAN EDGE WHERE NO JOINT EXISTS. THE COSTS OF SAWCUTTING SHALL BE INCLUDED IN THE RELATED PAY ITEMS IN THE BID FORM.

# <u>LEGEND</u>



ASPHALT PAVEMENT RESTORATION LIMITS (REFER TO DETAIL SHEET 10 OF 12)

# ROADWAY PLAN & PROFILE (BEACH AVENUE)



4701 NEW JERSEY AVENUE
WILDWOOD, NJ 08260
PHONE (609) 854-3311
FAX (609) 854-4323
www.deblasioassoc.com

RECONSTRUCTION OF BEACH AVENUE CITY OF CAPE MAY

Certification of Authorization No. 24GA28284900

CAPE MAY COUNTY, NEW JERSEY

Design: Drown: Check: Date: CMS/MWA CMS/MWA MAD 08/2024

NO. DATE APPR. REVISION

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CAPE MAY COUNTY, NEW JERSEY

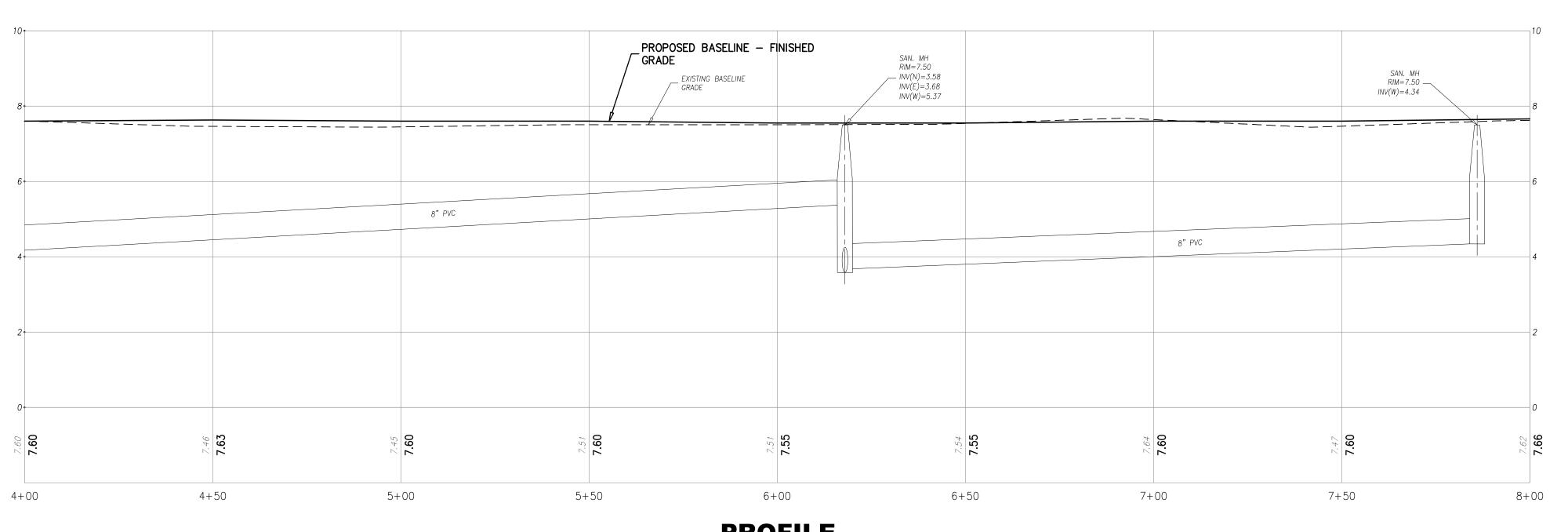
Date: CMS/MWA CMS/MWA MAD 08/2024

MARC A. DEBLASIO, PE
New Jersey License No. 41599

PERMISSION OF DEBLASIO & ASSOCIATES, P.C. IS PROHIBITED.

5 14 TON 7 60 S.Y. / (11) 12 S.Y. 9 176 L.F. 10 176 L.F. 13 1 S.Y. (N.J.D.O.T. CURB RAMP TYPE 4) **BEACH AVENUE** BLOCK 1014 (80' R.O.W.) (N.J.D.O.T. CURB 13 LOT 15 (12) 23 S.Y. #303 BLOCK 1014 RAMP TYPE 1) LOT 13.02 BLOCK 1014 LOT 13.01 18 TON BLOCK 1016 7 72 S.Y. LOT 17 BLOCK 1016 11) 125 S.Y. LOT 20 9 216 L.F. 10 216 L.F. r-(14) 4 S.Y. WOOD FENCE RIM = 6.98INV(N) = 3.38PARKING METER — WOOD FENCE (TYP.) TC6.97 GL6.64 PARKING LOT W SHW V DINK V DINK DINK \_\_GL\_6.78 R=8' GL6.66 SAN. MH RIM=7.50 — 7.60 SAN. MH RIM=7.50 INV(N)=3.58 INV(E)=3.68 7.63 INV(W) = 4.34350 TON INV(W) = 5.372,800 S.Y. 8.27 **8.05** 7.96 **7.85** 8.07 **8.10** 8.00 **8.00** MEET AND MATCH EXISTING 8.30 8.20 s PARKING METER

PARKING METER SIGN (TYP.) └─ BENCH (TYP.) ASPHALT PROMENADE L LIGHT POLE (TYP.) CONC. STEPS — - (TYP.) └─ BENCH (TYP.) 10.96 10.93 BLOCK 1000 LOT 11 BLOCK 1000 BLOCK 1000 LOT 13 LOT 12 **ROADWAY PLAN** SCALE : 1"=20'



**PROFILE** 

HORIZONTAL SCALE : 1"=20'
VERTICAL SCALE : 1"=10'

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

ITEM NO.	TO BE CONSTRUCTED	UNIT	PLAN QUANTITY	AS-BUILT QUANTITY
5	HOT MIX ASPHALT BASE COURSE, MIX 19M64, 4" THICK	TON	32	
6	HOT MIX ASPHALT SURFACE COURSE, MIX 9.5M64, 2" THICK	TON	350	
7	DENSE GRADED AGGREGATE BASE COURSE, 6" THICK	S.Y.	132	
9	8" x 18" CONCRETE VERTICAL CURB	L.F.	392	
10	CONCRETE GUTTER, 8" THICK	L.F.	392	
11	CONCRETE SIDEWALK, 4" THICK	S.Y.	138	
12	CONCRETE DRIVEWAY, 6" THICK	S.Y.	31	
13	DETECTABLE WARNING SURFACES	S.Y.	2	
14	SODDING	S.Y.	30	
15	RESET BRICK PAVERS	S.Y.	12	
16	HMA MILLING, O TO 3" DEPTH	S.Y.	2,800	

### SURVEY NOTI

- 1. EXISTING TOPOGRAPHIC INFORMATION SHOWN WAS BASED ON A FIELD SURVEY PERFORMED BY DEBLASIO & ASSOCIATES, P.C. UNDER THE SUPERVISION OF HENRY V. ENGEL, N.J.P.L.S. NO. 35833, COMPLETED ON 12/21/2023.
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## <u>ROADWAY NOTES:</u>

- 1. LIMITS OF PAVING (L.O.P.) SHALL BE SAWCUT FULL DEPTH AND SEALED WITH HOT-POURED JOINT SEALER, MEET AND MATCH EXISTING PAVEMENT ELEVATIONS. THERE SHALL BE NO SEPARATE PAYMENT FOR THIS WORK BUT THE COST SHALL BE INCLUDED IN THE SURFACE
- 2. LIMITS OF SIDEWALK REPLACEMENT SHALL BE SAWCUT TO A NEAT AND CLEAN EDGE WHERE NO JOINT EXISTS. THE COSTS OF SAWCUTTING SHALL BE INCLUDED IN THE RELATED PAY ITEMS IN THE BID FORM.

# <u>LEGEND</u>



ASPHALT PAVEMENT RESTORATION LIMITS (REFER TO DETAIL SHEET 10 OF 12)

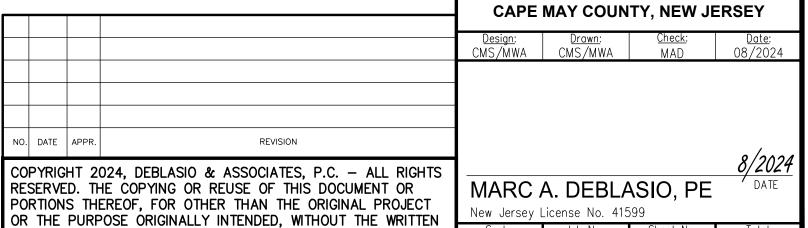
# ROADWAY PLAN & PROFILE (BEACH AVENUE)

# DEBLASIO & ASSOCIATES CONSULTING ENGINEERS AND PLANNERS

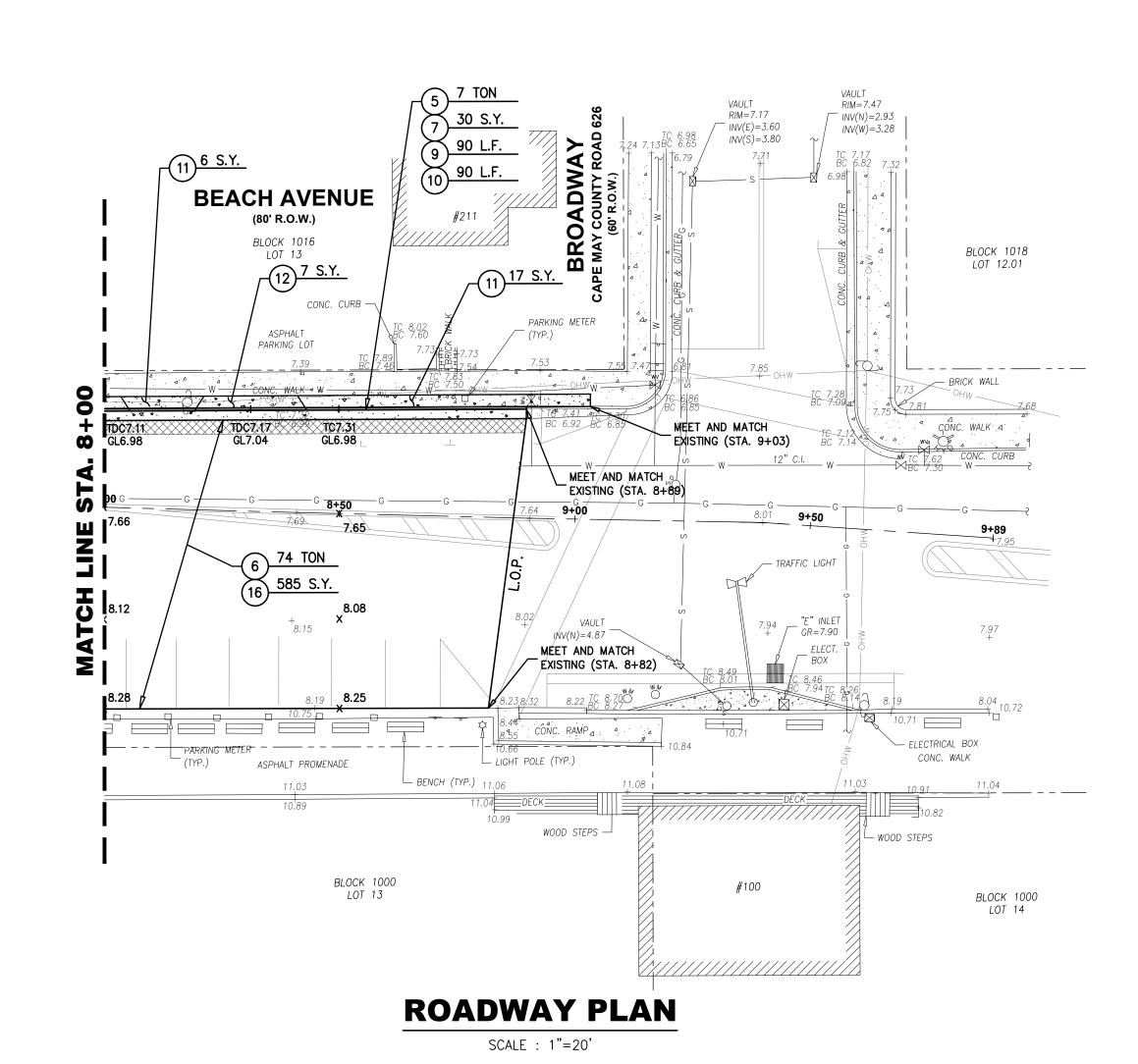
# CONSULTIN

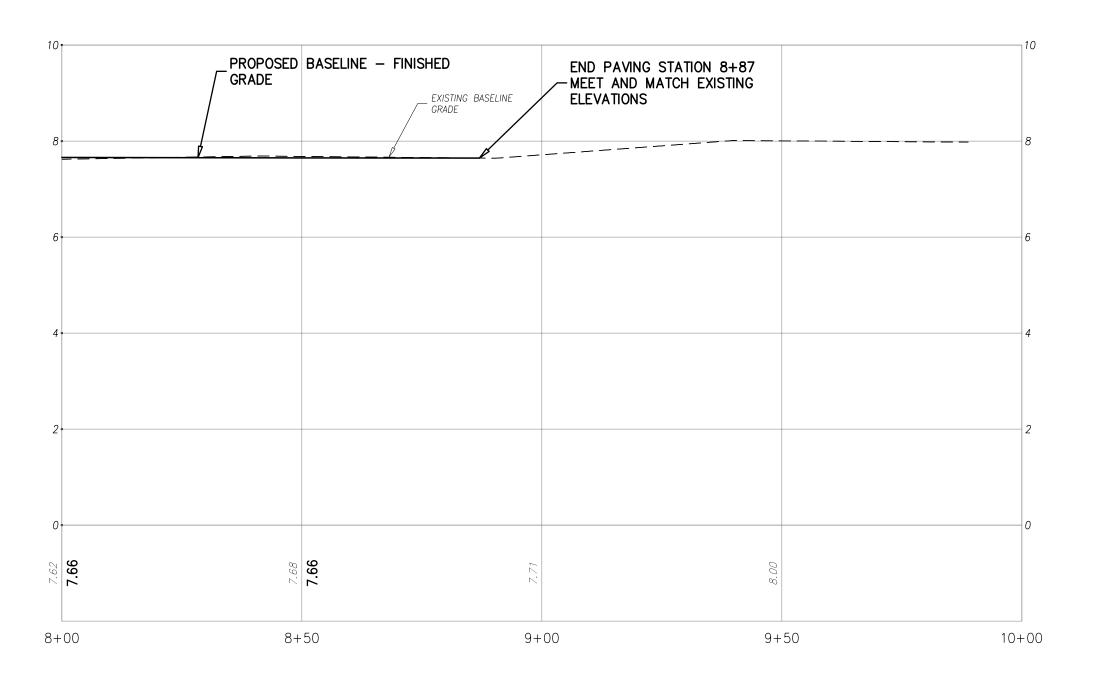
4701 NEW JERSEY AVENUE
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Certification of Authorization No. 24GA28284900

## RECONSTRUCTION OF BEACH AVENUE CITY OF CAPE MAY



PERMISSION OF DEBLASIO & ASSOCIATES, P.C. IS PROHIBITED.





**PROFILE** 

HORIZONTAL SCALE : 1"=20' VERTICAL SCALE : 1"=10"

# GRAPHIC SCALE

ITEM NO.	TO BE CONSTRUCTED	UNIT	PLAN QUANTITY	AS-BUILT QUANTITY
5	HOT MIX ASPHALT BASE COURSE, MIX 19M64, 4" THICK	TON	7	
6	HOT MIX ASPHALT SURFACE COURSE, MIX 9.5M64, 2" THICK	TON	74	
7	DENSE GRADED AGGREGATE BASE COURSE, 6" THICK	S.Y.	30	
9	8" x 18" CONCRETE VERTICAL CURB	L.F.	90	
10	CONCRETE GUTTER, 8" THICK	L.F.	90	
11	CONCRETE SIDEWALK, 4" THICK	S.Y.	23	
12	CONCRETE DRIVEWAY, 6" THICK	S.Y.	7	
16	HMA MILLING, O TO 3" DEPTH	S.Y.	585	

1. EXISTING TOPOGRAPHIC INFORMATION SHOWN WAS BASED ON A FIELD SURVEY PERFORMED BY DEBLASIO & ASSOCIATES, P.C. UNDER THE SUPERVISION OF HENRY V. ENGEL, N.J.P.L.S. NO. 35833, COMPLETED ON 12/21/2023.

- 2. ELEVATIONS SHOWN HEREON ARE IN FEET AND REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
- 3. HORIZONTAL CONTROL IS REFERENCED TO THE NEW JERSEY STATE PLANE COORDINATE SYSTEM (NAD 1983).
- 4. PROPERTY AND RIGHT-OF-WAY LINES SHOWN ARE APPROXIMATE LOCATIONS BASED ON THE CURRENT TAX MAPS OF THE CITY OF CAPE MAY, CAPE MAY COUNTY, NEW JERSEY. SAID LINES ARE SHOWN FOR GRAPHICAL INFORMATION ONLY AND HAVE NOT BEEN FIELD VERIFIED.

### ROADWAY NOTES:

- 1. LIMITS OF PAVING (L.O.P.) SHALL BE SAWCUT FULL DEPTH AND SEALED WITH HOT-POURED JOINT SEALER, MEET AND MATCH EXISTING PAVEMENT ELEVATIONS. THERE SHALL BE NO SEPARATE PAYMENT FOR THIS WORK BUT THE COST SHALL BE INCLUDED IN THE SURFACE
- 2. LIMITS OF SIDEWALK REPLACEMENT SHALL BE SAWCUT TO A NEAT AND CLEAN EDGE WHERE NO JOINT EXISTS. THE COSTS OF SAWCUTTING SHALL BE INCLUDED IN THE RELATED PAY ITEMS IN THE BID FORM.

# <u>LEGEND</u>



ASPHALT PAVEMENT RESTORATION LIMITS (REFER TO DETAIL SHEET 10 OF 12)

# **ROADWAY PLAN** & PROFILE (BEACH AVENUE)

# CONSULTING ENGINEERS AND PLANNERS

4701 NEW JERSEY AVENUE WILDWOOD, NJ 08260 PHONE (609) 854-3311 FAX (609) 854-4323 WWW.DEBLASIOASSOC.COM Certification of Authorization No. 24GA28284900

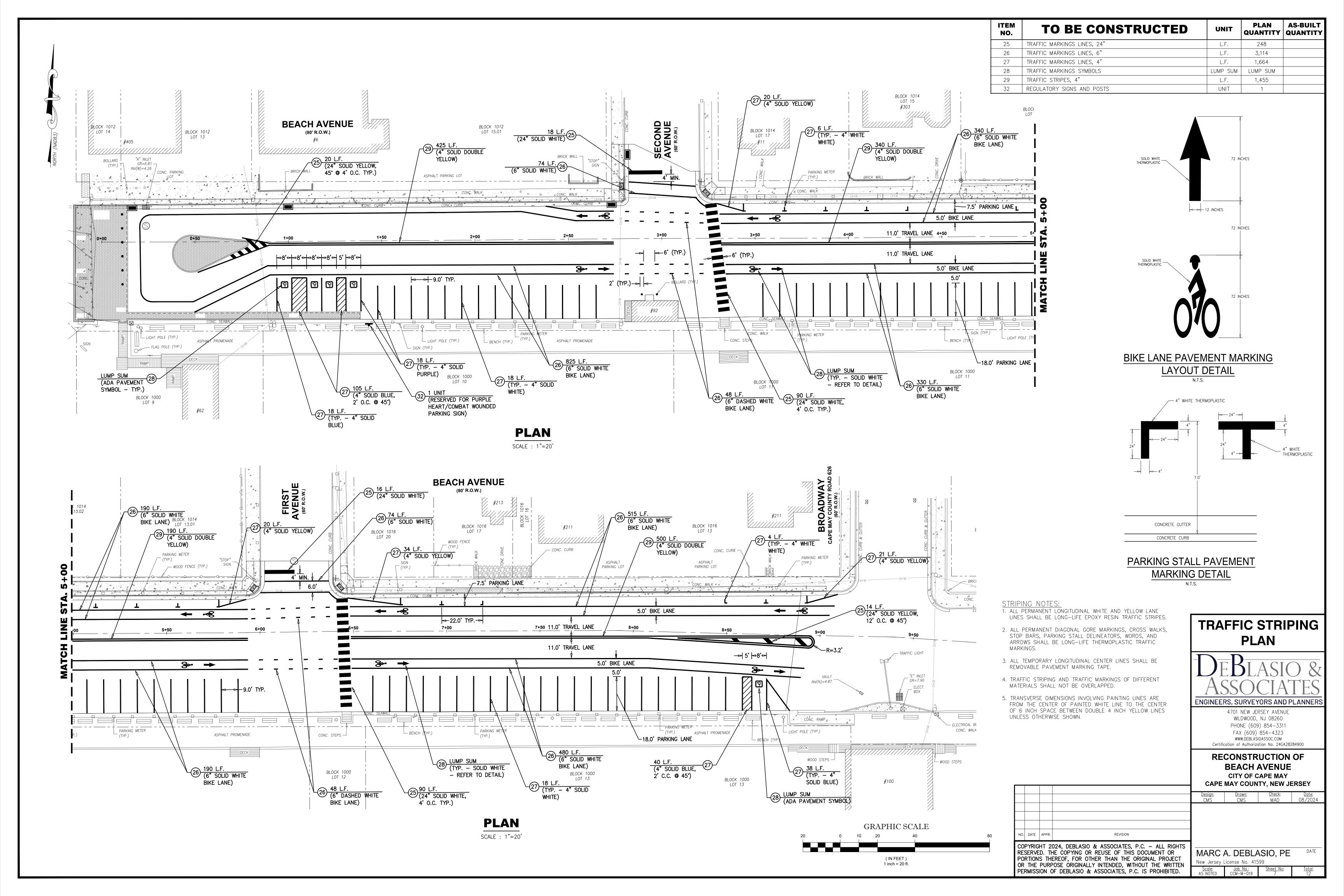
# **RECONSTRUCTION OF BEACH AVENUE** CITY OF CAPE MAY

**CAPE MAY COUNTY, NEW JERSEY** 

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MARC A. DEBLASIO, PE

( IN FEET ) 1 inch = 20 ft.



# **INLET GENERAL NOTES:**

- 1. INLETS MAY BE CONSTRUCTED OF BRICK, CONCRETE, CONCRETE BLOCK OR PRECAST CONCRETE. WALLS SHALL BE 8 INCHES THICK IF BRICK AND 6 INCHES THICK IF CONCRETE, CONCRETE BLOCK OR PRECAST CONCRETE. INLET FOUNDATIONS AND INVERTS SHALL BE CLASS C CONCRETE.
- 2. CORBELLING OF INLET WALLS WILL BE PERMITTED AT THE RATE OF 1/2" INCH PER 8 INCHES OF HEIGHT; MAXIMUM CORBEL 6 INCHES PER WALL.
- 3. EXCEPT FOR INLETS TYPE A AND C, FOUNDATIONS AND INVERTS SHALL BE CONSTRUCTED IN TWO STAGES, AND THE BOTTOM OF THE FOOTINGS SHALL BE 8 INCHES BELOW
- THE OUTER WALL OF THE LOWEST PIPE IN THE INLET. 4. WHEN THE DEPTH OF AN INLET THAT IS NOT PRECAST EXCEEDS 10 FEET AS MEASURED FROM TOP OF GRATE TO INVERT, WALLS BELOW A DEPTH OF 8 FEET SHALL BE 12 INCHES THICK AND THE DEPTH OF FOUNDATION
- INCREASED TO 12 INCHES. WHEN ROCK IS ENCOUNTERED, THE DEPTH OF THE FOUNDATION SHALL NOT BE INCREASED. 5. INLET FOUNDATIONS WHICH ARE PRECAST SHALL BE PLACED ON A 6 INCH THICK BED OF COMPACTED COARSE AGGREGATE SIZE NO. 57. THE COARSE AGGREGATE SHALL EXTEND 6 INCHES
- BEYOND THE HORIZONTAL LIMITS OF THE INLET FOUNDATION. 6. CASTINGS FOR PRECAST INLETS SHALL BE ADJUSTED TO GRADE WITH COURSES OF BRICK, AS REQUIRED, 12 INCHES
- 7. WHEN THE DEPTH OF A PRECAST INLET EXCEEDS 10 FEET AS MEASURED FROM TOP OF GRATE TO INVERT, THE FOUNDATION SHALL BE INCREASED TO 12 INCHES. WHEN ROCK IS ENCOUNTERED, THE DEPTH OF THE FOUNDATION SHALL NOT BE INCREASED.
- 8. MINIMUM WALL REINFORCEMENT FOR PRECAST INLETS TYPES A, B, C, E, D-1, D-2 AND B MODIFIED:

DEPTH BELOW TOP OF GRATE 0' TO 10'-0" 10'-1" TO 15'-0" 15'-1" TO 20'-0"	HORIZONTAL REINF. #13 @ 10" C.C. #13 @ 8" C.C. #13 @ 6" C.C.	VERTICAL REINF. #13 @ 18" C.C. #13 @ 18" C.C. #13 @ 18" C.C.	WALL THK. 6" 6"
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REINFORCING SHOWN FOR PRECAST INLETS IS THE MINIMUM REQUIRED. ADDITIONAL REINFORCING FOR HANDLING IS THE RESPONSIBILITY OF THE CONTRACTOR.

ALTERNATE REINFORCEMENT

DEPTH BELOW TOP OF GRATE

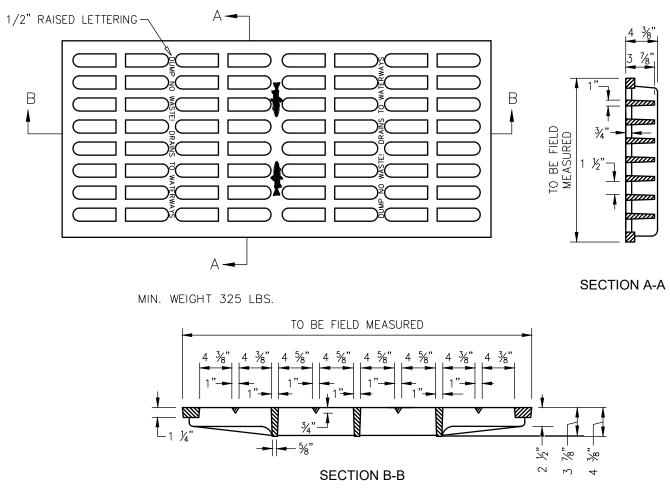
0' TO 10'-0"

15'1" TO 20'0"

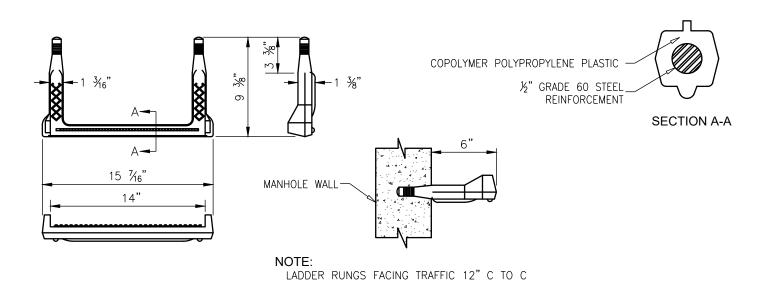
AND ITS AMENDMENTS.

WWF  $3 \times 6$  W6 WIRES SPACED AT 3" TO RUN HORIZONTAL IN ALL CASES. 10'-1" TO 15'-0" WWF 3 x 6 W6 ADD #10 BAR @ 18" HORIZONTAL. WWF  $3 \times 6$  W6 ADD #10 BAR @ 9" HORIZONTAL OR ADD #13 BAR AT

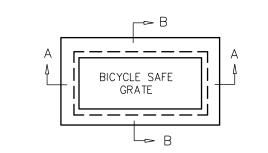
15" HORIZONTAL. 9. ALL INLETS AND MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT NJDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION

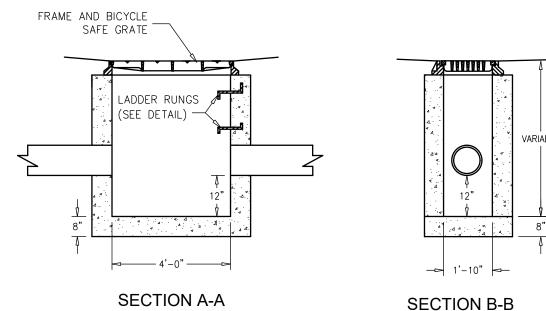


BICYCLE SAFE GRATE (CAST IRON) N.T.S.



COPOLYMER POLYPROPYLENE PLASTIC LADDER RUNG

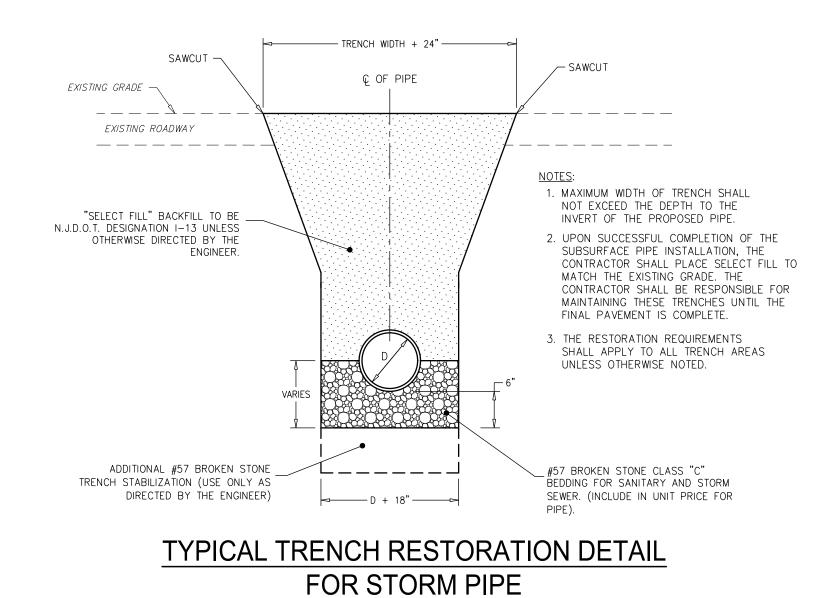




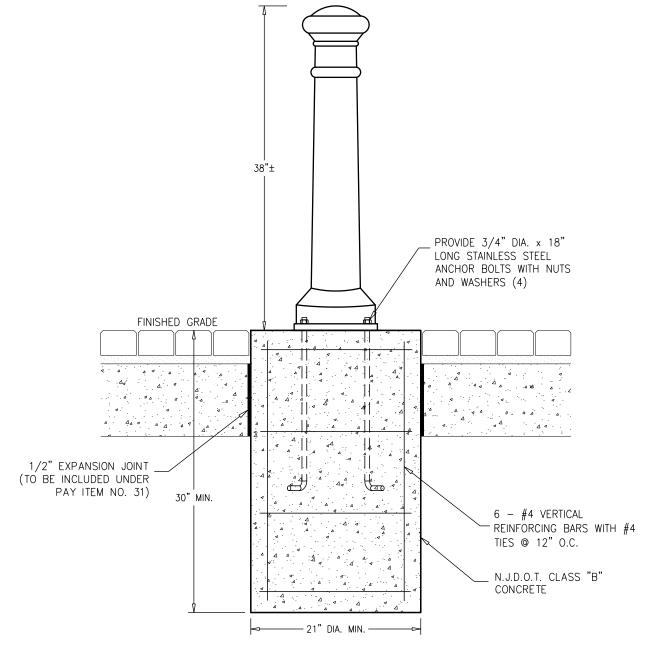
NOTES:

1. INLETS AND PIPING SHALL BE INSTALLED IN DRY GROUND. DEWATERING AS NEEDED TO PROVIDE PROVIDE DRY CONDITIONS SHALL BE INCLUDED AT NO ADDITIONAL COST.

2. NO ADDITIONAL PAYMENT WILL BE MADE FOR INSTALLATION OF PIPE AND STRUCTURES UP TO ONE(1) FOOT DEEPER THAN DESIGN INVERTS.



N.T.S.

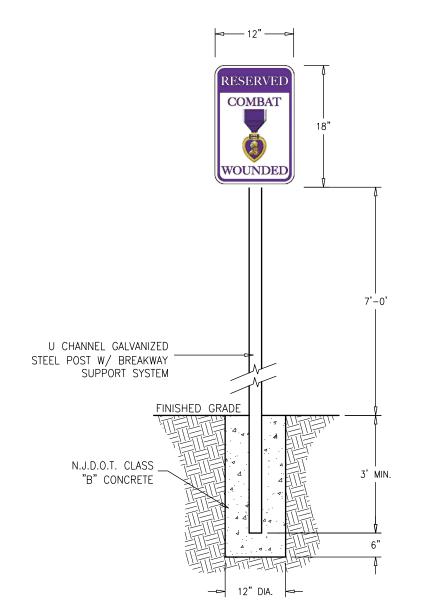


1. BOLLARD SHALL BE 38" x 8" DIA. SURFACE MOUNT DUCTILE IRON DECORATIVE BOLLARD MODEL NO. BOL-CI-38-8 AS MANUFACTURED BY VESTIL MANUFACTURING CO. OR APPROVED

- 2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- 3. COLOR SHALL BE POWDER COATED BLACK.
- 4. SEPARATE PAYMENT SHALL NOT BE MADE FOR CONCRETE FOOTINGS. ALL COSTS SHOULD BE INCLUDED UNDER PAY ITEM, "DECORATIVE BOLLARDS."

# DECORATIVE BOLLARD DETAIL

N.T.S.



- 1. ALL SIGNS TO BE ASTM D 4956 TYPE III SHEETING.
- 2. ALL POSTS SHALL BE OF ADEQUATE LENGTH TO MEET THE REQUIREMENTS FOR ERECTION AS STATED IN THE CURRENT "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" AND AS INDICATED BELOW.
- 3. ALL STEEL POSTS AND BRACKETS SHALL BE CUT, BENT AND HOLES PUNCHED AND DRILLED BEFORE GALVANIZING. GALVANIZING SHALL BE IN CONFORMANCE WITH CURRENT
- 4. ALL STEEL U-POST SIGN SUPPORTS MUST BE INSTALLED FACING THE PREDOMINANT TRAFFIC FLOW. A MOUNTING BRACKET SHOULD BE USED ON SIDE MOUNTED SIGNS SUCH AS "ONE WAY" SIGNS INSTALLED IN MEDIANS.
- 5. BOLTS SHALL NOT PROTRUDE MORE THAN 3/4" BEYOND THE NUT WHEN TIGHT, BUT SHALL ENGAGE ALL THREADS IN THE

REGULATORY SIGN AND POST DETAIL

4701 NEW JERSEY AVENUE WILDWOOD, NJ 08260 PHONE (609) 854-3311 FAX (609) 854-4323

> RECONSTRUCTION OF **BEACH AVE** CITY OF CAPE MAY

CONSTRUCTION

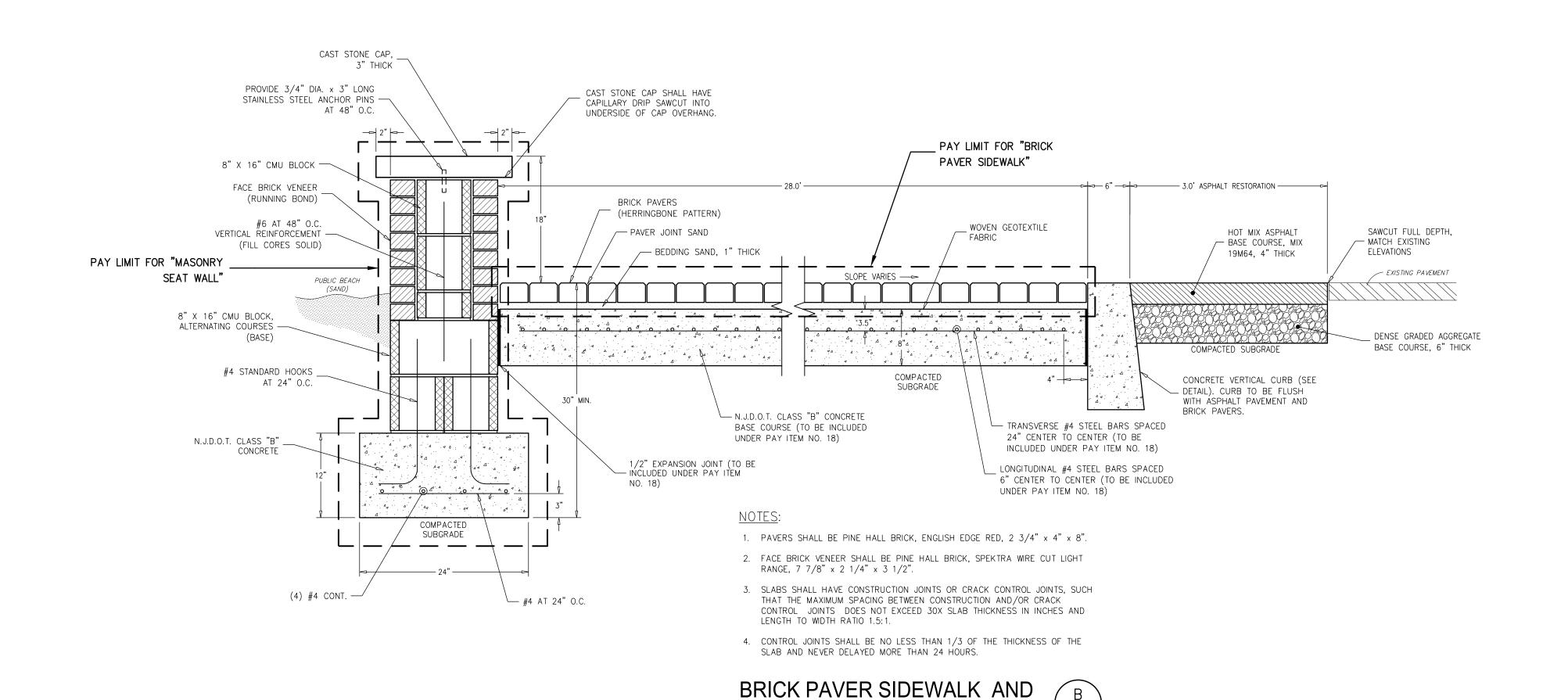
**DETAILS** 

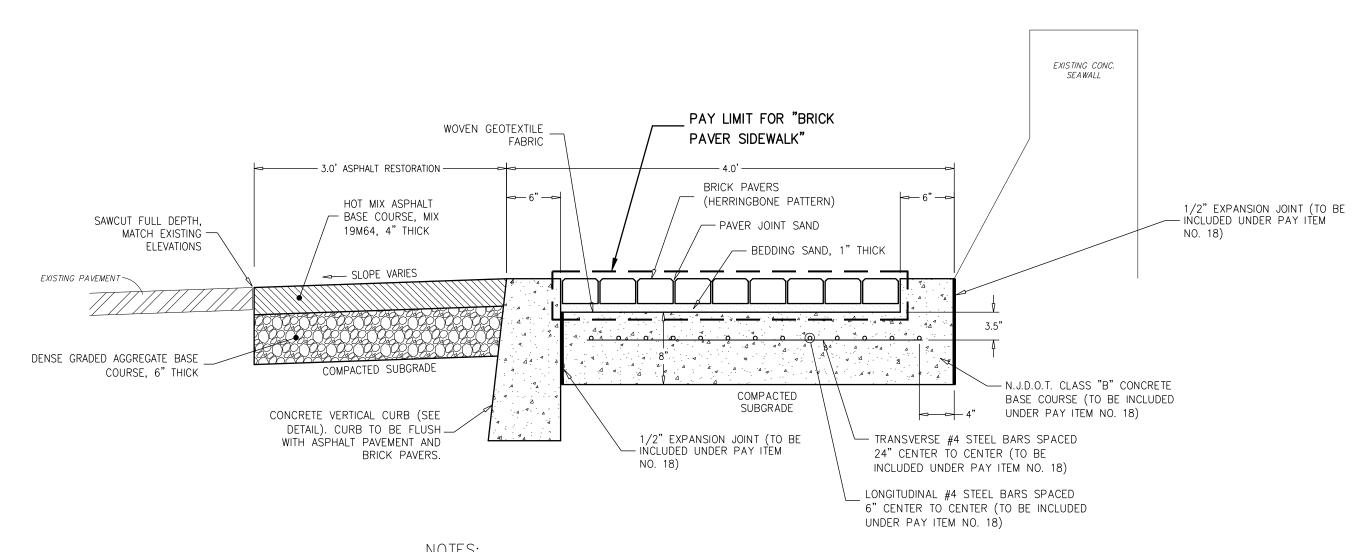
ENGINEERS, SURVEYORS AND PLANNER:

WWW.DEBLASIOASSOC.COM Certification of Authorization No. 24GA28284900

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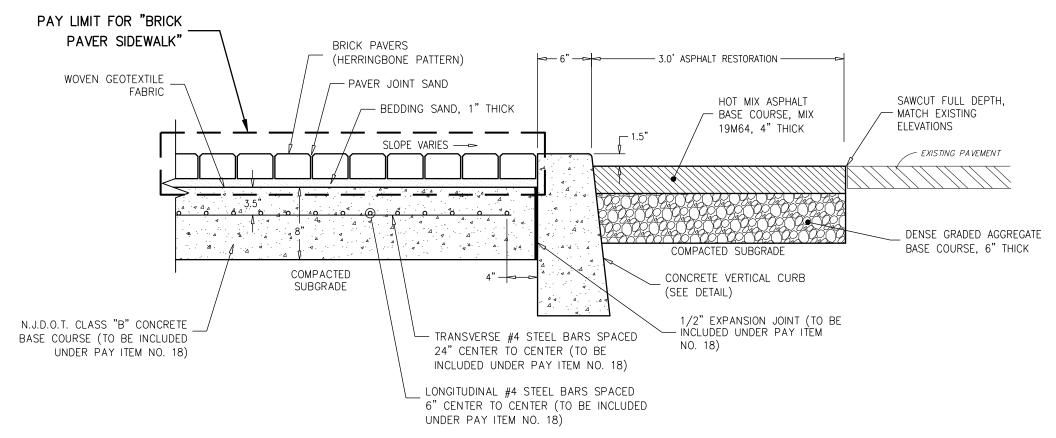
SEAT WALL DETAIL

# 1. PAVERS SHALL BE PINE HALL BRICK, ENGLISH EDGE RED, 2 3/4" x 4" x 8".

- 2. SLABS SHALL HAVE CONSTRUCTION JOINTS OR CRACK CONTROL JOINTS, SUCH THAT THE MAXIMUM SPACING BETWEEN CONSTRUCTION AND/OR CRACK CONTROL JOINTS DOES NOT EXCEED 30X SLAB THICKNESS IN INCHES AND LENGTH TO WIDTH RATIO 1.5:1.
- 3. CONTROL JOINTS SHALL BE NO LESS THAN 1/3 OF THE THICKNESS OF THE SLAB AND NEVER DELAYED MORE THAN 24 HOURS.

BRICK PAVER SIDEWALK DETAIL

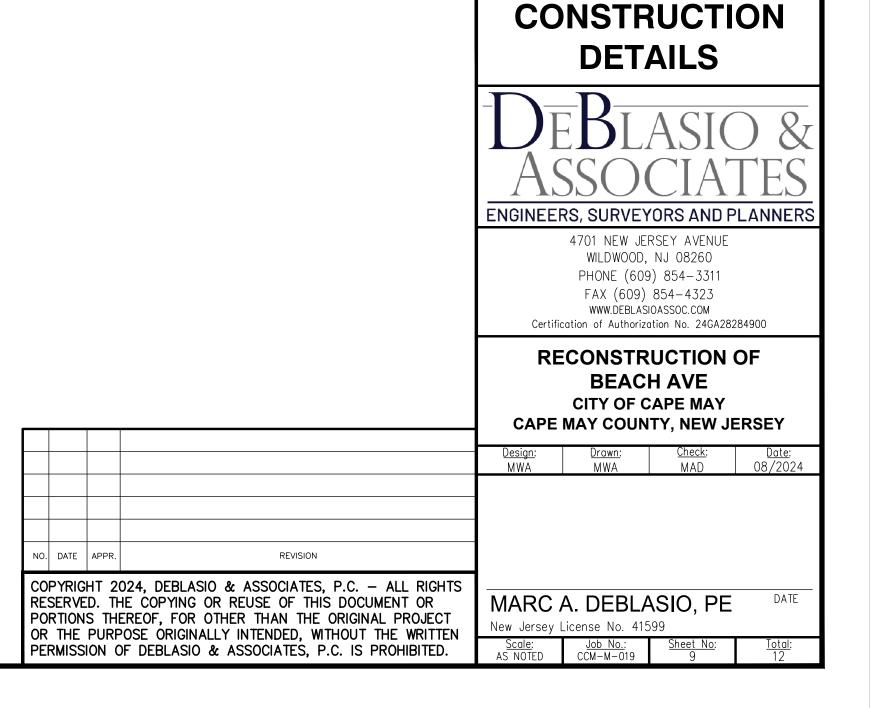


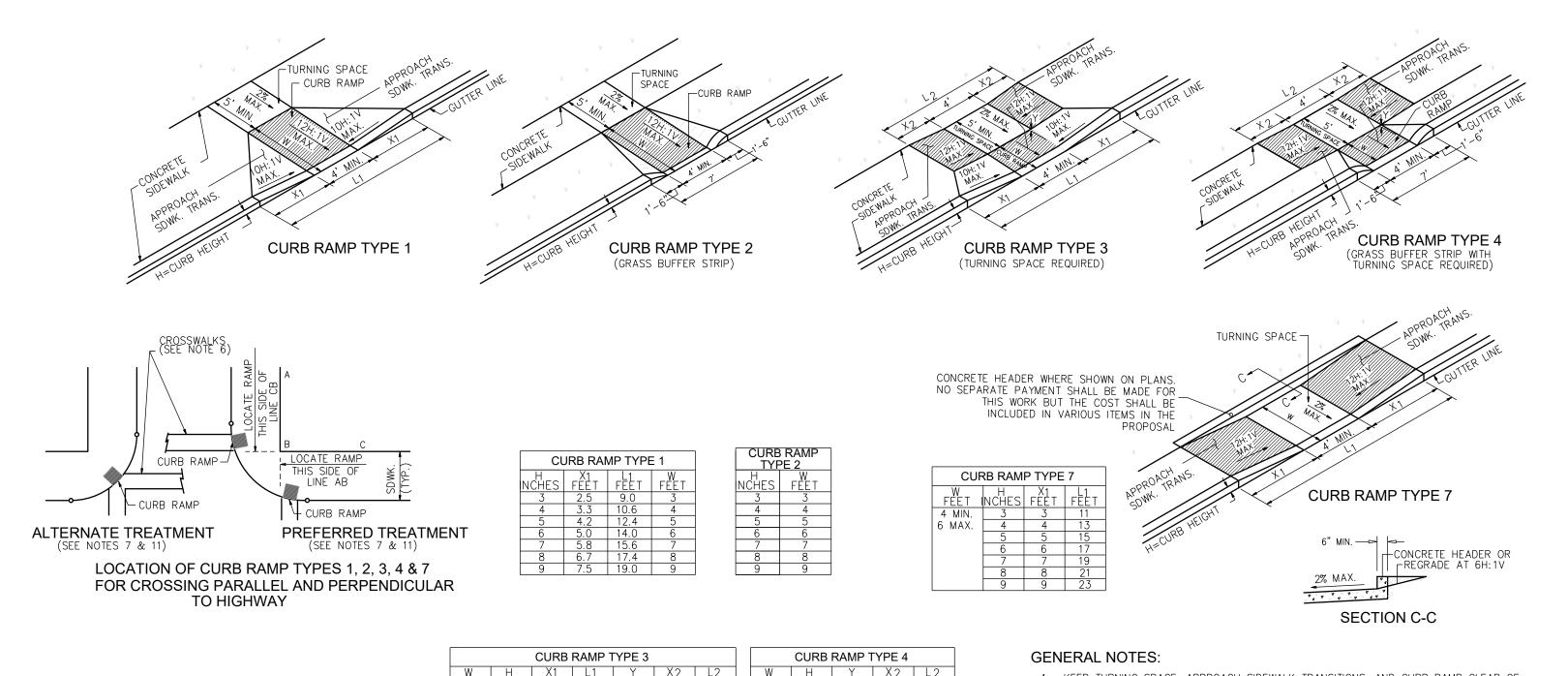


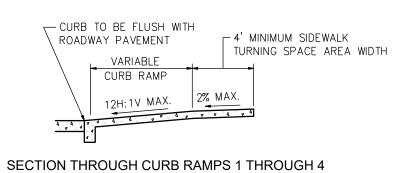
## NOTES

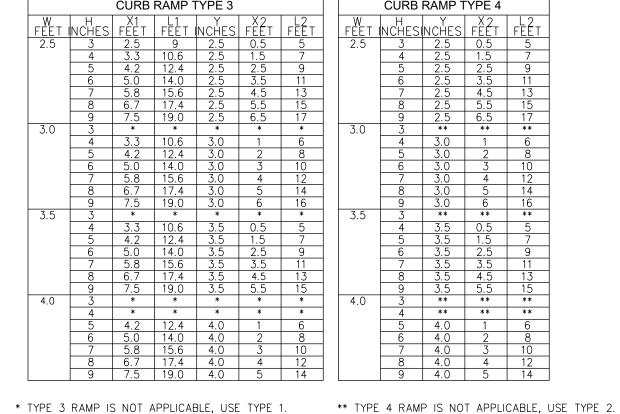
- 1. PAVERS SHALL BE PINE HALL BRICK, ENGLISH EDGE RED, 2 3/4" x 4" x 8".
- 2. SLABS SHALL HAVE CONSTRUCTION JOINTS OR CRACK CONTROL JOINTS, SUCH THAT THE MAXIMUM SPACING BETWEEN CONSTRUCTION AND/OR CRACK CONTROL JOINTS DOES NOT EXCEED 30X SLAB THICKNESS IN INCHES AND LENGTH TO WIDTH RATIO 1.5:1.
- 3. CONTROL JOINTS SHALL BE NO LESS THAN 1/3 OF THE THICKNESS OF THE SLAB AND NEVER DELAYED MORE THAN 24 HOURS.

# BRICK PAVER ISLAND DETAIL



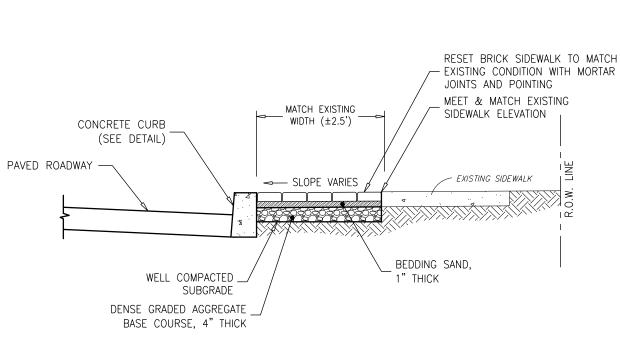




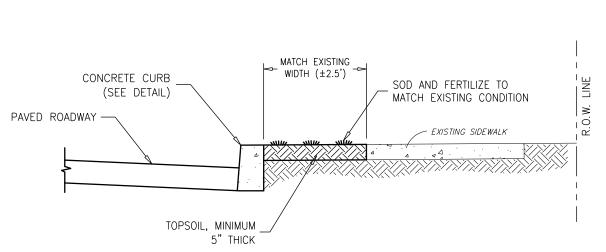


- 1. KEEP TURNING SPACE, APPROACH SIDEWALK TRANSITIONS, AND CURB RAMP CLEAR OF OBSTRUCTIONS THAT PROTRUDE ABOVE THE SURFACE.
- 2. CURB (DROPPED CURB) GUTTERLINE TO BE FLUSH WITH ROADWAY PAVEMENT THE ENTIRE WIDTH OF THE RAMP (4 FEET MIN.) AT ALL CURB RAMPS.
- 3. DIMENSIONS SHOWN IN TABLES ARE FOR RELATIVELY FLAT SIDEWALK AREAS. CARE SHOULD BE TAKEN WHEN DETERMINING CURB RAMP SIZE BASED ON CURB HEIGHT (H) WHERE ELEVATION OF CURB AND SIDEWALK VARY DRASTICALLY IN AREA OF PROPOSED
- 4. WHERE THE DISTANCE FROM THE GUTTER LINE TO THE OUTSIDE EDGE OF SIDEWALK IS 6 FEET OR LESS, CURB RAMP TYPE 7 SHOULD BE USED, INSTEAD OF CURB RAMP TYPE 1
- 5. THE PUBLIC SIDEWALK CURB RAMP, DETECTABLE WARNING SURFACE (SHADED AREA) SHALL BE SAFETY RED COLOR ON CONCRETE OR 70% COLOR CONTRAST FOR OTHER SURFACE
- 6. CROSSWALKS AND STOP LINES MAY BE MARKED OR UNMARKED, SEE PLANS.
- 7. PREFERRED AND ALTERNATE TREATMENTS SHOULD NOT BE INTERMIXED WITHIN THE SAME INTERSECTION.
- 8. DIMENSIONS SHOWN IN TABLES ARE FOR 3 INCH TO 9 INCH CURB HEIGHTS. WHERE THE CURB HEIGHTS ARE OTHER THAN WHAT IS PROVIDED IN THE TABLES, THE DIMENSIONS OF THE RAMPS WILL HAVE TO BE CALCULATED BASED ON CROSS SLOPES SHOWN.
- 9. THE 12H:1V MAX SLOPE IS THE RUNNING SLOPE FOR CURB RAMPS. BUT ONLY THE 12H:1V SLOPE MEASURED AS X2 IS THE RUNNING SLOPE FOR TYPE 3 AND TYPE 4 CURB RAMPS. ENSURE THE RUNNING SLOPE OF CURB RAMPS DOES NOT REQUIRE ITS LENGTH TO EXCEED 15 FEET. THE RUNNING SLOPE MAY EXCEED THE 12H:1V MAX SLOPE SO AS NOT TO EXCEED THE 15 FEET MAXIMUM LENGTH.
- 10. CURB RAMP TYPE 1 THROUGH 7 ARE NORMALLY PLACED ON THE RADIUS RETURN AT THE INTERSECTION AND ON A TANGENT SECTION AS DRAWN. 11. CONSTRUCT CURB RAMP TYPES 1, 2, 3, 4 & 7 PERPENDICULAR TO CURBLINE, AS SHOWN.

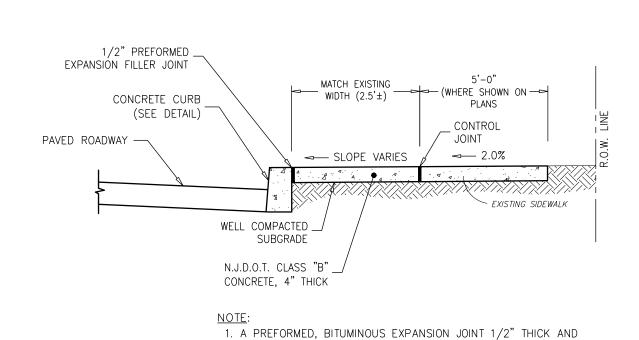
# PUBLIC SIDEWALK CURB RAMPS



RESET BRICK SIDEWALK DETAIL

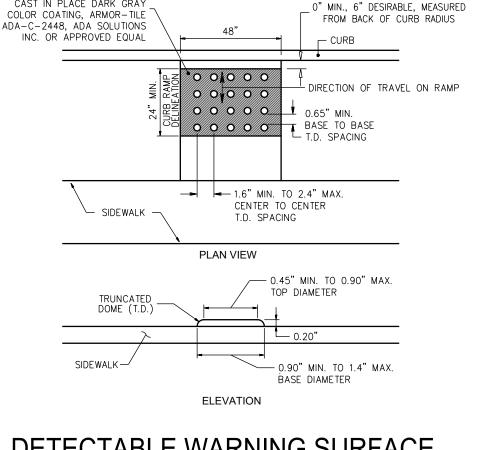


**GRASS RESTORATION DETAIL** 

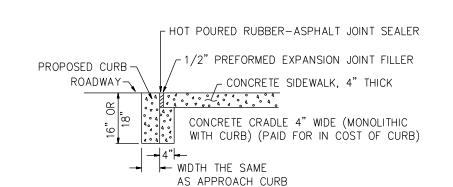


SHALL BE INSTALLED EVERY 20 FEET. CONTROL JOINTS SHALL BE INSTALLED EVERY 4 FEET THE FULL SIDEWALK WIDTH. CONCRETE SIDEWALK RESTORATION DETAIL

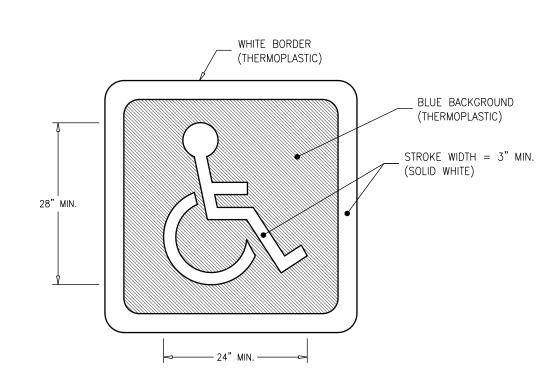
EXTENDING THE FULL WIDTH OF THE SIDEWALK, UNBROKEN,



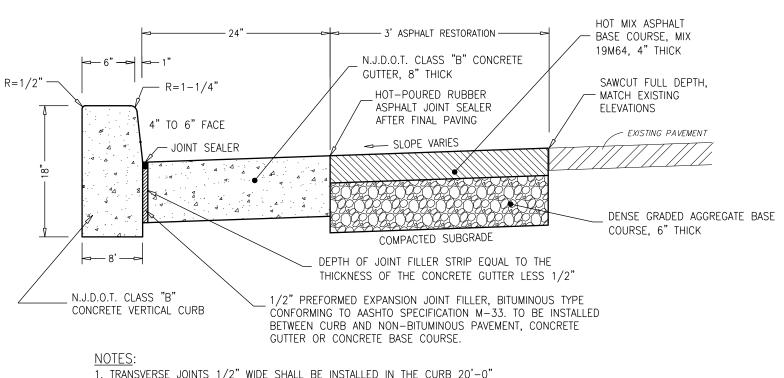
# DETECTABLE WARNING SURFACE



# DROPPED CURB AND CRADLE AT ALL PUBLIC SIDEWALK CURB RAMPS



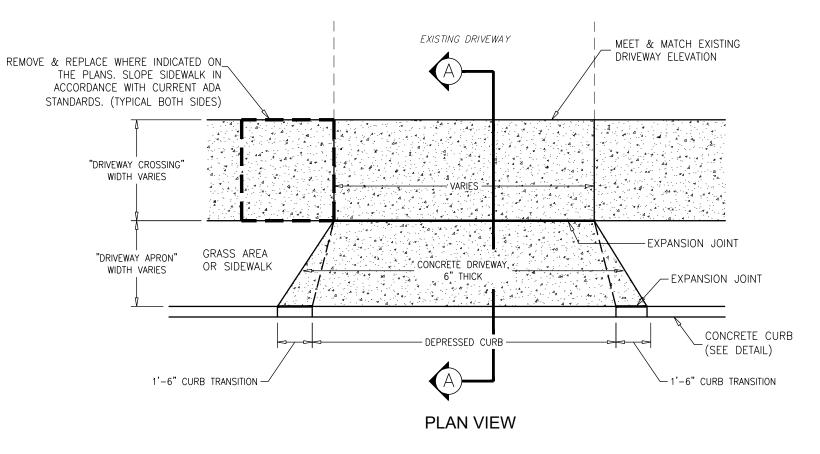
# ADA ACCESSIBLE PAVEMENT SYMBOL

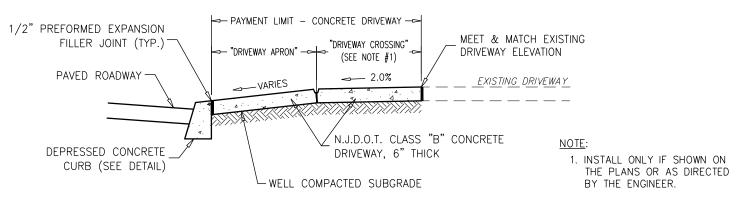


1. TRANSVERSE JOINTS 1/2" WIDE SHALL BE INSTALLED IN THE CURB 20'-0" APART AND SHALL BE FILLED WITH PREFORMED, BITUMINOUS-IMPREGNATED FIBER JOINT FILLER, COMPLYING WITH THE REQUIREMENTS OF AASHTO M-213, RECESSED 1/4" FROM THE FRONT FACE AND TOP OF CURB.

2. DUMMY JOINTS (FORMED) SHALL BE INSTALLED MIDWAY BETWEEN EXPANSION

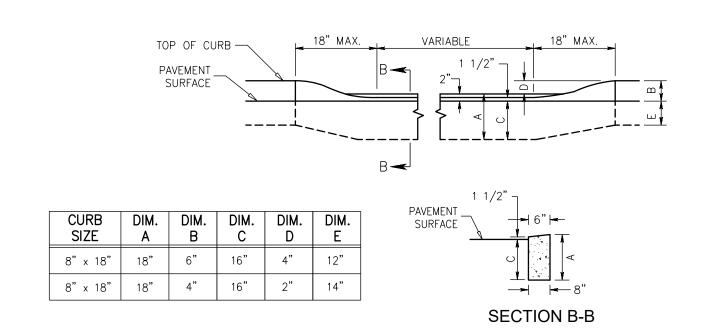
# CONCRETE VERTICAL CURB, CONCRETE GUTTER AND PAVEMENT RESTORATION DETAIL



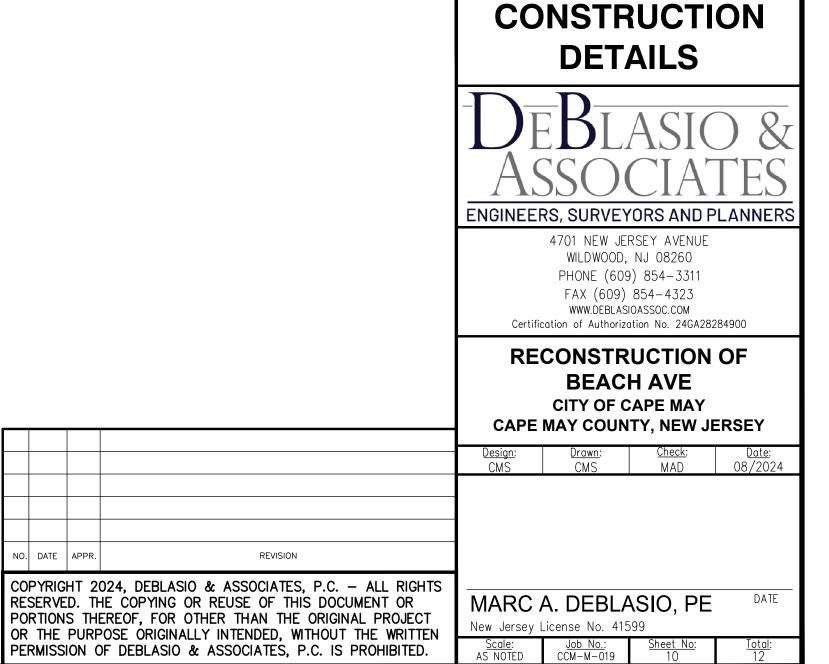


**SECTION A-A** 

# CONCRETE DRIVEWAY APRON DETAIL



# METHOD OF DEPRESSED CURB AT DRIVEWAYS



## SOIL EROSION AND SEDIMENT CONTROL NOTES

- 1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSTALLED IN ACCORDANCE WITH THE NJ STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL, AND WILL BE INSTALLED
- IN PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.

  2. ANY DISTURBED AREA THAT WILL BE LEFT EXPOSED FOR MORE THAN TEN (10) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREA WILL BE MULCHED WITH SALT HAY OR EQUIVALENT AND BOUND IN ACCORDANCE WITH THE NJ STANDARDS (I.E. PEG AND TWIN, MULCH NETTING, OR LIQUID MULCH BINDER).
- 3. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF 2 TONS PER ACRE, ACCORDING TO THE NJ STANDARDS.
- 4. <u>STABILIZATION SPECIFICATIONS:</u>
- A. TEMPORARY SEEDING AND MULCHING:

  -LIME 90 LBS/1,000 SF GROUND LIMESTONE; FERTILIZER 14 LBS/1,000 SF;

  10-20-10 OR EQUIVALENT WORKED INTO SOIL A MINIMUM OF 4"

  -SEED PERENNIAL RYEGRASS 100 LBS/ACRE OR OTHER APPROVED SEEDS; PLANT BETWEEN MARCH 1 AND MAY 15 OR BETWEEN AUGUST 15 AND OCTOBER 1.

  -MULCH SALT HAY OR SMALL GRAIN STRAW AT A RATE OF 70 TO 90 LBS/1,000 SF, TO BE APPLIED ACCORDING TO THE NJ STANDARDS. MULCH SHALL BE SECURED BY
- APPROVED METHODS (I.E. PEG AND TWINE, MULCH NETTING, OR LIQUID MULCH BINDER).

  B. PERMANENT SEEDING AND MULCHING:

  -LIME 90 LBS/1,000 SF GROUND LIMESTONE; FERTILIZER 14 LBS/1,000 SF;

  10-20-10 OR EQUIVALENT WORKED INTO SOIL A MINIMUM OF 4"

  -SEED PERENNIAL RYEGRASS 40 LBS/ACRE OR OTHER APPROVED SEEDS; PLANT BETWEEN MARCH 1 AND MAY 15 OR BETWEEN AUGUST 15 AND OCTOBER 1.

  -MULCH SALT HAY OR SMALL GRAIN STRAW AT A RATE OF 70 TO 90 LBS/1,000 SF, TO BE APPLIED ACCORDING TO THE NJ STANDARDS. MULCH SHALL BE SECURED BY
- APPROVED METHODS (I.E. PEG AND TWINE, MULCH NETTING, OR LIQUID MULCH BINDER).

  5. TEMPORARY BERMS ARE TO BE INSTALLED ON ALL CLEARED ROADWAYS AND EASEMENT AREAS IN ACCORDANCE WITH SECTION 4.21 OF THE NJ STANDARDS.
- 6. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORM—WATER RUN-OFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
- 7. ALL SEDIMENTATION STRUCTURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS.
- 8. STOCKPILES ARE NOT TO BE LOCATED WITHIN 50' OF A FLOODPLAIN, SLOPE, ROADWAY, OR DRAINAGE FACILITY. THE BASE OF ALL STOCKPILES SHOULD BE PROTECTED BY A HAY BALE BARRIER OR SEDIMENT FENCE.
- 9. A CRUSHED STONE, VEHICLE WHEEL-CLEANING BLANKET WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS ROAD INTERSECTS ANY PAVED ROADWAY. SAID BLANKET WILL BE COMPOSED OF 2 1/2" CRUSHED STONE, 6" THICK, WILL BE AT LEAST 30' x 100' AND SHOULD BE UNDERLAIN WITH A SUITABLE SYNTHETIC SEDIMENT FILTER FABRIC AND MAINTAINED.

  10. MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT EXCEED 3:1 UNLESS
- OTHERWISE APPROVED BY THE DISTRICT.

  11. ALL DRIVEWAYS MUST BE STABILIZED WITH 2 1/2" CRUSHED STONE OR SUBBASE PRIOR
  TO INDIVIDUAL LOT CONSTRUCTION.
- 12. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.

  13. ALL CATCH BASIN INLETS WILL BE PROTECTED WITH A CRUSHED STONE OR FABRIC
- 13. ALL CATCH BASIN INLETS WILL BE PROTECTED WITH A CRUSHED STONE OR FABRIC FILTER (FILTER DETAILS APPEAR ON THE PLAN).
- 14. ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
   15. ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER

AREA. THE SEDIMENT FILTER SHOULD BE COMPOSED OF A SUITABLE SEDIMENT FILTER

- FABRIC (SEE DETAIL).

  16. THE CAPE/ATLANTIC SOIL CONSERVATION DISTRICT MUST BE NOTIFIED, IN WRITING,
  AT LEAST 48 HOURS PRIOR TO ANY LAND DISTURBANCE.
- 17. THE CAPE/ATLANTIC SOIL CONSERVATION DISTRICT MAY REQUEST ADDITIONAL MEASURES TO MINIMIZE ON OR OFF-SITE EROSION PROBLEMS DURING CONSTRUCTION.

# TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION

- 1. SITE PREPARATION
  - A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING.
- B. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.

### 2. SEEDBED PREPARATION

- A. APPLY LIMESTONE AND FERTILIZER. FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEE OF 10-20-10 OR EQUIVALENT. APPLY LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDES) AS FOLLOWS:
- SOIL TEXTURE TONS/ACRE SQ. FT.

  CLAY, CLAY LOAM, AND HIGH 3 135

  ORGANIC SOIL

  SANDY LOAM, LOAM, SILT LOAM 2 90
- PULVERIZED DOLOMITIC LIMESTONE IS PREFERRED FOR MOST SOILS SOUTH OF THE NEW BRUNSWICK-TRENTON LINE.
- B. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM SEEDBED
- C. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AS ABOVE.
- D. SOILS HIGH ON SULFIDES OR HAVING A pH OF 4 OR LESS SHOULD BE MULCHED ONLY.

# 3. SEEDING

- A. SEE TEMPORARY SEED MIXTURE FOR SPECIES AND APPLICATION RATES.
- B. APPLY SEED UNIFORMLY BY HAND, CYCLONE(CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. MULCH SHALL NOT BE INCLUDED IN A HYDROSEEDER TANK WITH SEED. SEED SHALL BE INCORPORATED INTO THE SOIL BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COURSE TEXTURED SOIL.
- C. AFTER SEEDING, FIRMING THE SOIL SHALL BE PERFORMED WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDING EMERGENCE.

# 4. MULCHING MULCHING IS REQUIRED ON ALL SEEDING.

- A. MULCH MATERIALS SHOULD BE UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPLIED AT THE RATE OF 1 1/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH—BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION MUST BE DOUBLE THE LOWER RATE. MULCH CHOPPER—BLOWERS MUST NOT GRIND THE MATERIAL.
- B. <u>Spread uniformly</u> by hand or mechanically so that approximately 75% to 95% of the soil surface will be covered. For uniform distribution of hand-spread mulch, divide area into approximately 1,000 square feet sections and distribute 70 to 90 bounds within each section.
- C. <u>MULCH ANCHORING</u> SHOULD BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COSTS.
- 1. <u>PEG AND TWINE</u> DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRISSCROSS AND A SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.
- 2. MULCH NETTING- STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTING TO THE SOIL SURFACE. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED.
- 3. CRIMPER(MULCH ANCHORING TOOL)— A TRACTOR—DRAWN IMPLEMENT, SOMEWHAT LIKE A DISC HARROW, ESPECIALLY DESIGNED TO PUSH OR CUT SOME OF THE BROADCAST LONG FIBER MULCH 3 TO 4 INCHES INTO THE SOIL SO AS TO ANCHOR IT AND LEAVE PART STANDING UPRIGHT. THIS TECHNIQUE IS LIMITED TO AREAS TRAVERSABLE BY A TRACTOR WHICH MUST OPERATE ON THE CONTOUR OF SLOPES. STRAW MULCH RATE MUST BE 3 TONS PER ACRE. NO TACKIFYING OR ADHESIVE AGENT IS REQUIRED.
- D. WOOD-FIBER OR PAPER-FIBER MULCH AT THE RATE OF 1,500 POUNDS PER ACRE MAY BE APPLIED BY A HYDROSEEDER. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM

# TEMPORARY SEEDING MIXTURE

SEEDING PERIODS IN SPRING AND FALL.

- THE MINIMUM APPLICATION RATE FOR THIS SEEDING MIXTURE SHALL BE FOUR (4) POUNDS/1000 SQUARE FEET OR 160 POUNDS/ACRE.
- THE OPTIMAL SEEDING DATES FOR PERRENNIAL RYEGRASS FOR CAPE-ATLANTIC REGION ARE 2/15 4/30 AND 8/15 10/30. SUMMER SEEDING SHALL BE PERFORMED ONLY IF ADEQUATE IRRIGATION IS PROVIDED TO ENSURE SUCCESSFUL GERMINATION.

## PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION

- 1. SITE PREPARATION
- A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MAINTENANCE
- B. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.

# 2. SEEDBED PREPARATION

- A. APPLY LIMESTONE AND FERTILIZER. FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-20-10 OR EQUIVALENT. APPLY LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDES) AS FOLLOWS:
- SOIL TEXTURE
  CLAY, CLAY LOAM, AND HIGH
  ORGANIC SOIL

  SANDY LOAM, LOAM, SILT LOAM

  TONS/ACRE
  SQ. FT.
  4
  180
  180
  3
  135
- LOAMY SAND, SAND 2 90

  PULVERIZED DOLOMITIC LIMESTONE IS PREFERRED FOR MOST SOILS SOUTH
- OF THE NEW BRUNSWICK-TRENTON LINE.

  B. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE
- TO FIRM THE SEEDBED WHEREVER FEASIBLE.

  C. REMOVE FROM THE SURFACE ALL STONES TWO INCHES OR LARGER IN ANY DIMENSION.
  REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE,
  CLODS, LUMPS, OR OTHER UNSUITABLE MATERIAL.

SENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM SEEDBED S PREPARED. ALL BUT CLAY OR SILTY SOILS AND COURSE SANDS SHOULD BE ROLLED

- CLODS, LUMPS, OR OTHER ÚNSUITABLE MATERIAL. D. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AND FIRMED AS ABOVE.
- 3. SEEDING
  A. SEE PERMANENT SEED MIXTURE FOR SPECIES AND APPLICATION RATES.
- B. APPLY SEED UNIFORMLY BY HAND, CYCLONE(CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. MULCH SHALL NOT BE INCLUDED IN A HYDRO-SEEDER TANK WITH SEED. EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDING, SHALL BE INCORPORATED INTO THE SOIL, TO A DEPTH OF 1/4 TO 1/2 INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COURSE TEXTURED SOIL.

  C. AFTER SEEDING, FIRMING THE SOIL SHALL BE PERFORMED WITH A CORRUGATED ROLLER WILL

ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDING

### 4 MULCHING

- MULCHING IS REQUIRED ON ALL SEEDING.
- A. MULCH MATERIALS SHOULD BE UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPLIED AT THE RATE OF 1 1/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH—BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION MUST BE DOUBLE THE LOWER RATE. MULCH CHOPPER—BLOWERS MUST NOT GRIND THE MATERIAL.
- B. <u>SPREAD UNIFORMLY</u> BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 75% TO 95% OF THE SOIL SURFACE WILL BE COVERED. FOR UNIFORM DISTRIBUTION OF HAND—SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION.
- C. <u>MULCH ANCHORING</u> SHOULD BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COSTS.
- 1. PEG AND TWINE- DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRISS-CROSS AND SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.
- 2. <u>MULCH NETTING</u>— STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTING TO THE SOIL SURFACE. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED.
- 3. CRIMPER(MULCH ANCHORING TOOL)— A TRACTOR—DRAWN IMPLEMENT, SOMEWHAT LIKE A DISC HARROW, ESPECIALLY DESIGNED TO PUSH OR CUT SOME OF THE BROADCAST LONG FIBER MULCH 3 TO 4 INCHES INTO THE SOIL SO AS TO ANCHOR IT AND LEAVE PART STANDING UPRIGHT. THIS TECHNIQUE IS LIMITED TO AREAS TRAVERSABLE BY A TRACTOR, WHICH MUST OPERATE ON THE CONTOUR OF SLOPES. STRAW MULCH RATE MUST BE 3 TONS PER ACRE. NO TACKIFYING OR ADHESIVE AGENT IS REQUIRED.
- D. WOOD-FIBER OR PAPER-FIBER MULCH AT THE RATE OF 1,500 POUNDS PER ACRE MAY BE APPLIED BY A HYDROSEEDER. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.

## 5. IRRIGATION

6. TOP DRESSING \*

- A. IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER (A MINIMUM OF 1/4 INCH TWICE A DAY UNTIL VEGETATION IS WELL ESTABLISHED). THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE PERFORMED IN ABNORMALLY DRY OR HOT WEATHER OR ON DROUGHTY SITES.
- A. SPRING SEEDING WILL REQUIRE AN APPLICATION OF FERTILIZER SUCH AS 10-10-10 OR EQUIVALENT AT 400 POUNDS PER ACRE OR 10 POUNDS PER 1,000 SQUARE FEET BETWEEN SEPTEMBER 1 AND OCTOBER 15.
- B. FALL SEEDING WILL REQUIRE THE ABOVE BETWEEN MARCH 15 AND MAY 1.
- C. MIXTURES DOMINATED BY WEEPING LOVEGRASS OR LEGUMES MAY NOT NEED TOPDRESSING.

  \* IF SLOW RELEASE NITROGEN (300 POUNDS 38-0-0 PER ACRE OR EQUIVALENT) IS USED IN ADDITION TO SUGGESTED FERTILIZER, THIS FOLLOW-UP OF TOP DRESSING IS NOT MANDATORY.

# PERMANENT SEEDING MIXTURE (DRY)

THIS SEEDING MIXTURE IS COMPOSED OF DROUGHT-TOLERANT SPECIES WHICH CAN THRIVE WITH LOW MAINTENANCE. THE PROPRIETARY NAME OF THE MIXTURE IS <u>RECLAIM CONSERVATION MIX-DRY FORMULA</u> AS MANUFACTURED BY <u>LOFTS, INC.</u>, BOUND BROOK, N.J. 08805, (800)526-3890. A MIXTURE OF EQUAL QUALITY MAY BE SUBSTITUTED IF APPROVED BY OUR OFFICE.

_%_	COMMON NAME	BOTANICAL NAME
50 20 10 10 5	CLEMFINE TALL FESCUE RELIANT HARD FESCUE JAMESTOWN CHEWINGS FESCUE PALMER PERENNIAL RYE WHITE CLOVER BLACKWELL SWITCHGRASS	FESTUCA ARUNDINACEA "CLEMFINE" FESTUCA LONGIFOLIA "RELIANT" FESTUCA RUBRA VAR. COMMUTATA "JAMESTOWN" LOLIUM PERENNE "PALMER" TRIFOLIUM REPENS PANICUM VIRGATUM "BLACKWELL"

THE MINIMUM APPLICATION RATE FOR THIS SEEDING MIXTURE SHALL BE FOUR (4) POUNDS/1000 SQUARE FEET OR 175 POUNDS/ACRE.

THE OPTIMAL SEEDING DATES FOR MOST COOL SEASON GRASSES FOR CAPE-ATLANTIC REGION ARE 2/15 - 4/30 AND 8/15 - 10/30. SUMMER SEEDING SHALL BE PERFORMED ONLY IF

ADEQUATE IRRIGATION IS PROVIDED TO ENSURE SUCCESSFUL GERMINATION.

# PERMANENT SEEDING MIXTURE (MOIST)

THIS SEEDING MIXTURE IS COMPOSED OF MOISTURE-TOLERANT SPECIES WHICH CAN THRIVE WITH LOW MAINTENANCE. THE PROPRIETARY NAME OF THE MIXTURE IS <u>RECLAIM CONSERVATION</u>

<u>MIX-MOIST FORMULA</u> AS MANUFACTURED BY <u>LOFTS</u>, <u>INC.</u>, BOUND BROOK, N.J. 08805, (800)526-3890.

A MIXTURE OF EQUAL QUALITY MAY BE SUBSTITUTED IF APPROVED BY OUR OFFICE.

_%_	COMMON NAME	BOTANICAL NAME
55 15 10 10 5 5	CLEMFINE TALL FESCUE NASSAU KENTUCKY BLUEGRASS PALMER PERENNIAL RYE LASER POA TRIVIALIS STREAKER REDTOP REED CANARY GRASS	FESTUCA ARUNDINACEA "CLEMFINE" POA PRATENSIS "NASSAU" LOLIUM PERENNE "PALMER" POA TRIVIALIS "LASER" AGROSTIS ALBA "STREAKER" PHLARIS ARUNDINACEA

THE MINIMUM APPLICATION RATE FOR THIS SEEDING MIXTURE SHALL BE FIVE (5) POUNDS/1000 SQUARE FEET OR 220 POUNDS/ACRE.

THE OPTIMAL SEEDING DATES FOR MOST COOL SEASON GRASSES FOR CAPE—ATLANTIC REGION ARE 2/15 — 4/30 AND 8/15 — 10/30. SUMMER SEEDING SHALL BE PERFORMED ONLY IF ADEQUATE IRRIGATION IS PROVIDED TO ENSURE SUCCESSFUL GERMINATION.

# SPECIAL NOT

- 1. TEMPORARY STABILIZATION ALL EXPOSED AREAS NOT TO BE CONSTRUCTED UPON WITHIN 14 DAYS SHOULD RECEIVE TEMPORARY STABILIZATION. THE TEMPORARY SEEDING MIXTURES SHALL BE ANNUAL RYE GRASS AT A RATE OF 4 POUND PER 1000 SQ. FT. AND LIMED AT A RATE OF 45 LBS. PER 1000 SQ. FT.
- RATE OF 45 LBS. PER 1000 SQ. FT.

  2. PERMANENT STABILIZATION ALL EXPOSED AREAS WHICH ARE TO BE PERMANENTLY VEGETATED SHOULD BE SEEDED WITHIN 7 DAYS OF FINAL GRADING, ACCORDING TO THE PERMANENT SEEDING SPECIFICATIONS.

## TOP SOILING

- TOPSOIL SHOULD BE USED WHERE SOILS ARE: SANDS, GRAVELY SOILS, CLAYS, SILTY CLAYS, VERY SHALLOW, OR WHERE THEY ARE EXTREMELY ACID (LESS THAN pH4.0) OR SALTY (CONDACTIVITY GREATER THAN 1.0 MILLIMHOS PER CENTIMETER); OR WHERE TOPSOIL IS AVAILABLE ON SITE AND ASSURANCE OF IMPROVED VEGETATIVE GROWTH IS DESIRED.
- 1. MATERIALS

  A. TOPSOIL SHOULD BE FRIABLE AND LOAMY, FREE OF DEBRIS, OBJECTIONABLE WEEDS AND STONES, AND CONTAIN NO TOXIC SUBSTANCE THAT MAY BE HARMFUL TO PLANT GROWTH. A PH RANGE OF 5.0-7.5 IS ACCEPTABLE. SOLUBLE SALTS SHOULD NOT BE EXCESSIVE (CONDUCTIVITY LESS THAN 0.5 MILLIMHOS PER CENTIMETER). TOPSOIL HAULED IN FROM OFF SITE SHOULD HAVE A MINIMUM ORGANIC MATTER CONTENT OF 2.75 PERCENT. ORGANIC MATTER CONTENT MAY BE RAISED BY ADDITIVES.

### 2. STRIPPING AND STOCKPILING

- A. FIELD EXPLORATION SHOULD BE MADE TO DETERMINE WHETHER QUANTITY AND/OR QUALITY OF SURFACE SOIL JUSTIFIES STRIPPING.
- B. STRIPPING SHOULD BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA.
- C. WHERE FEASIBLE, LIME MAY BE APPLIED BEFORE STRIPPING AT A RATE DETERMINED BY SOIL TESTS TO BRING THE SOIL pH TO 6.5. IN LIEU OF SOIL TESTS, SEE LIME RATE GUIDE IN SEEDBED PREPARATION FOR PERMANENT VEGETATIVE COVER.
- D. A 4-6 INCH STRIPPING DEPTH IS COMMON, BUT MAY VARY DEPENDING ON THE PARTICULAR SOIL.
- E. STOCKPILES OF TOPSOIL SHOULD BE SITUATED SO AS NOT TO OBSTRUCT NATURAL DRAINAGE OR CAUSE OFF-SITE ENVIRONMENTAL DAMAGE.
- F. STOCKPILES SHOULD BE VEGETATED IN ACCORDANCE WITH TEMPORARY SEEDING STANDARDS PREVIOUSLY DESCRIBED HEREIN.

## 3. SITE PREPARATION

- A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND ANCHORING, AND MAINTENANCE.
- B. SUBSOIL SHOULD BE TESTED FOR LIME REQUIREMENT AND LIMESTONE, IF NEEDED, SHOULD BE APPLIED TO BRING SOIL pH TO 6.5 AND INCORPORATED INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES.
- C. IMMEDIATELY PRIOR TO TOPSOIL DISTRIBUTION, THE SURFACE SHOULD BE SCARIFIED 6" 12" WHERE THERE HAS BEEN SOIL COMPACTION.
- D. EMPLOY NEEDED EROSION CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENTATION BASINS, AND WATERWAYS.
- A. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING SOIL STRUCTURE; I.E., LESS THAN FIELD CAPACITY.

  B. TOPSOIL SHALL BE APPLIED TO A UNIFORM DEPTH OF 5.0 INCHES (FIRMED IN PLACE).

## OUST CONTROL

- 1. THE PURPOSE OF DUST CONTROL MEASURES IS TO PREVENT THE BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON—SITE AND OFF—SITE DAMAGE & HEALTH HAZARDS, AND IMPROVE TRAFFIC SAFETY.
- A. <u>MULCHES</u> REVIEW MULCHING NOTES ABOVE.
- B. <u>VEGETATIVE COVER</u> REVIEW NOTES ON TEMPORARY COVER.
- B. <u>VEGETATIVE COVER</u> REVIEW NOTES ON TEMPORARY COVER.
- C. <u>SPRAY-ON ADHESIVES</u> ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS.

  D. <u>MATERIAL</u>

  LATEX EMULSION

  12.5:1

  RESIN IN WATER

  4:1

  FINE SPRAY

  300
- POLYACRYLAMIDE (PAM) SPRAY ON
  POLYACRYLAMIDE (PAM) DRY SPREAD

  ACIDULATED SOY BEAN SOAP STICK

  APPLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS. MAY ALSO BE USED AS AN ADDITIVE TO SEDIMENT BASINS TO FLOCCULATE AND PRECIPITATE SUSPENDED COLLOIDS. SEE SEDIMENT BASIN STANDARD, PAGE 26-1.

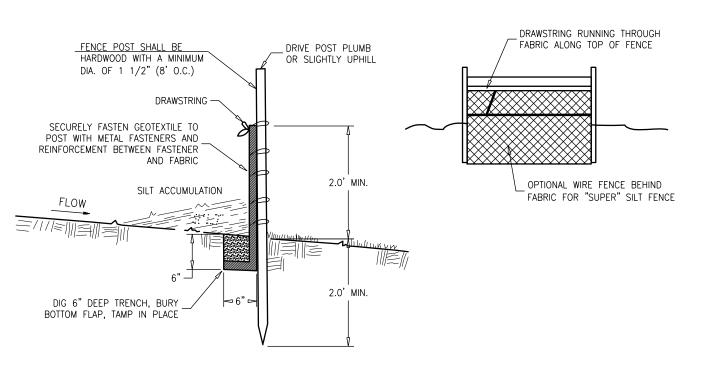
  NONE

  COARSE SPRAY

  1200
- E. TILLAGE TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS A TEMPORARY EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL—TYPE PLOWS SPACED ABOUT 12 INCHES APART, AND SPRING—TOOTHED HARROWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.
- F. <u>SPRINKLING</u> SITE IS SPRINKLED UNTIL THE SURFACE IS WET.
- G. <u>BARRIERS</u> SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING.
- H. <u>STONE</u> COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

# **GENERAL NOTES:**

- 1. A REPORT OF COMPLIANCE MUST BE OBTAINED FROM THE DISTRICT PRIOR TO RECEIVING A CERTIFICATE OF OCCUPANCY FROM THE MUNICIPALITY. A REQUEST FOR A DISTRICT INSPECTION FOR THE RELEASE OF A REPORT OF COMPLIANCE MUST BE MADE 5 WORKING DAYS IN ADVANCE. THIS APPLIES TO BOTH COMPLETE (FINAL) AND CONDITIONAL (TEMPORARY) CERTIFICATES. ALL STREETS AND UNITS MUST BE PROPERLY IDENTIFIED. A REPORT OF COMPLIANCE WILL NOT BE RELEASED FOR A UNIT IF IT CAN NOT BE IDENTIFIED. IDENTIFY ALL UNITS AT THE SITE BY BLOCK, LOT, AND STREET ADDRESS.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.
- 3. THE CONTRACTOR SHALL REMOVE ANY SEDIMENT THAT MAY BE SPILLED, DROPPED OR TRACKED OFF THE PROJECT SITE. ALL PAVED RIGHT-OF-WAYS ADJACENT TO THE PROJECT SITE MUST BE MAINTAINED IN A CLEAN, SWEPT CONDITION THROUGHOUT CONSTRUCTION.

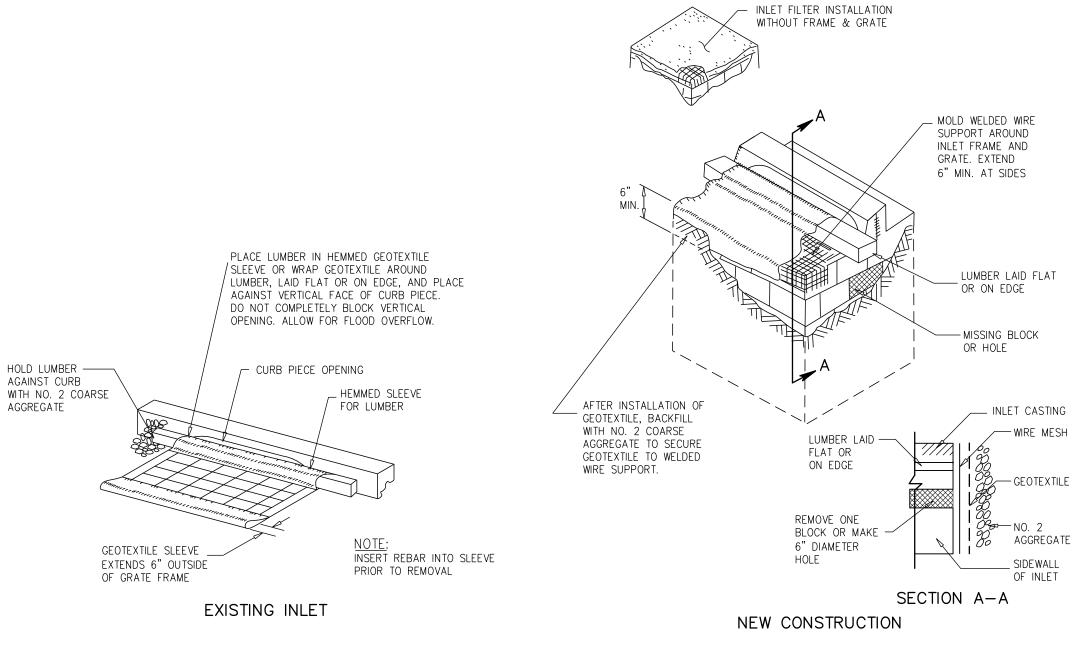


## NOTES:

- 1. EXCAVATE A 6"x6" TRENCH ALONG THE LOWER PERIMETER OF THE
- UNROLL THE SILT FENCE GEOTEXTILE AND POSITION THE POLES AGAINST THE BACK(DOWNSTREAM) WALL OF THE TRENCH.
- 3. LAY THE TOE-IN FLAP OF THE FABRIC ONTO THE UNDISTURBED BOTTOM OF THE TRENCH, BACKFILL THE TRENCH AND TAMP THE

# SILT FENCE DETAIL OR APPROVED EQUAL

OR APPROVED EQUAL N.T.S.



# INLET FILTERS, TYPE 1

SEDIMENT
CONTROL PLAN

DEBLASIO &
ASSOCIATES

ENGINEERS, SURVEYORS AND PLANNER

4701 NEW JERSEY AVENUE
WILDWOOD, NJ 08260
PHONE (609) 854-3311
FAX (609) 854-4323
WWW.DEBLASIOASSOC.COM
Certification of Authorization No. 24GA28284900

RECONSTRUCTION OF

**BEACH AVENUE** 

**SOIL EROSION &** 

CITY OF CAPE MAY
CAPE MAY COUNTY, NEW JERSEY

Design: Drawn: Check: Date:
CMS CMS MAD 08/202

CMS CMS MAD 08/202

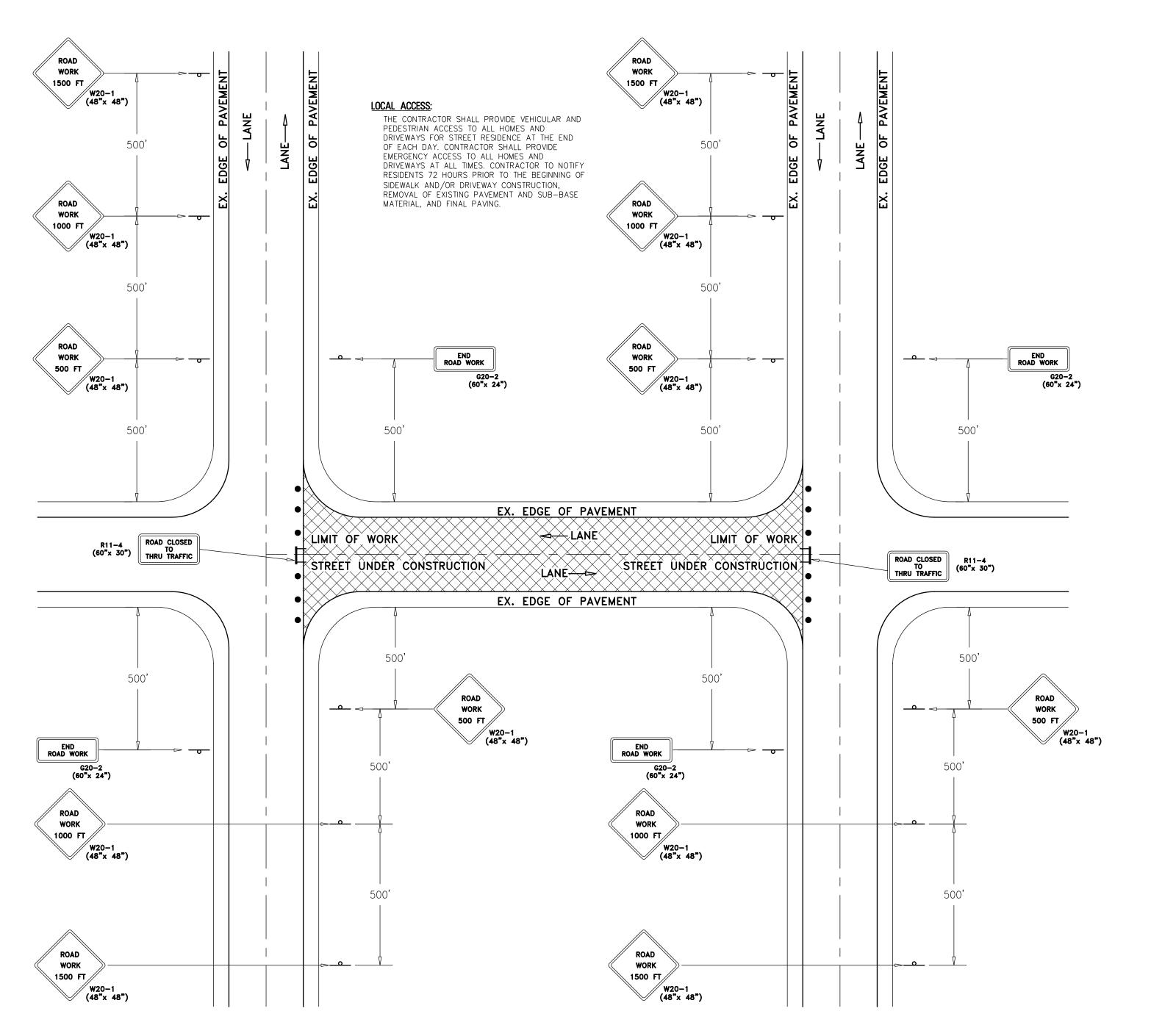
Design: CMS CMS MAD 08/202

Design: CMS CMS MAD 08/202

MAD 08/202

MARC A. DEBLASIO, PE
New Jersey License No. 41599

PERMISSION OF DEBLASIO & ASSOCIATES, P.C. IS PROHIBITED



# TYPICAL STREET TRAFFIC CONTROL PLAN

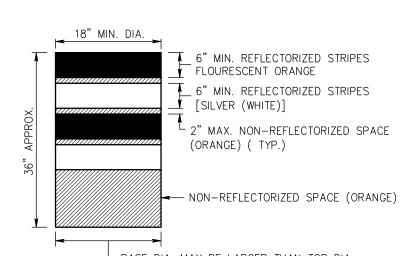
1 3/4" MIN. O.D. — 3" то 4" space FOR HANDLING. \_ 6" SILVER (WHITE) RETROREFLECTIVE SHEETING, ASTM D-4956 TYPE III Z" SPACE \_ 4" SILVER (WHITE) RETROREFLECTIVE SHEETING, ASTM D-4956 TYPE III PLASTIC OR RUBBER, MIN. WEIGHT 7 LBS. 7 1/2" MIN. O.D. 14" MIN.

TRAFFIC CONES MUST BE PREDOMINATELY ORANGE IN BASES MAY BE OF BREAKAWAY BALLASTED TYPE. MINOR MANUFACTURER'S VARIATIONS MAY BE

TRAFFIC CONES

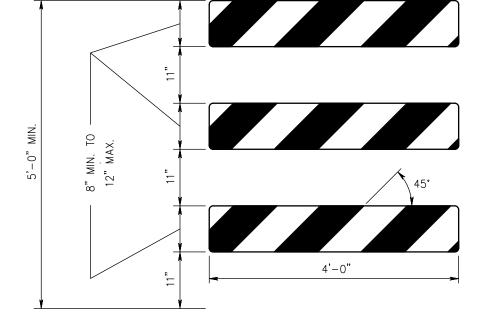
ACCEPTABLE UPON APPROVAL OF THE ENGINEER.

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. ENSURE RETROREFLECTIVE SHEETING FOR STRIPES CONFORMS WITH ASTM D 4956 TYPE VII OR VII WITH S2 REQUIREMENTS. ENSURE THE TOP OF THE DRUM IS NOT OPEN. CONSTRUCT DRUMS TO INHIBIT ROLLING IF KNOCKED 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.



BASE DIA. MAY BE LARGER THAN TOP DIA. 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 N.T.S.



# TYPE III BARRICADE - FRONT VIEW

1. ENSURE THE 8" MIN. x 48", TO 12" MAX. x 48" BARRICADE RAILS TO BE ATTACHED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

2. ENSURE ORANGE AND SILVER (WHITE) STRIPES TO BE RETROREFLECTIVE SHEETING, ASTM D 4956 TYPE III. ALTERNATE ORANGE AND SILVER (WHITE) STRIPES 6" WIDE SLOPING DOWNWARD AT AN ANGLE OF 45 DEGREES IN THE DIRECTION TRAFFIC IS TO PASS.

3. THE FRAMING, RAILS, AND BALLAST FOR BREAKAWAY BARRICADE TO BE NCHRP-350 CRASHED TESTED AND FHWA

4. IF NECESSARY, FABRICATE THE BALLAST AND PLACE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

# **BREAKAWAY BARRICADES**

### RECOMMENDED RECOMMENDED TAPER LENGTH AND SPACING SPACING ALONG FOR CHANNELIZING TAPERS TANGENTS MAXIMUM MINIMUM APPROACH TAPER RATIO DEVICE (B) DEVICE (D) SPEED OF TAPER LENGTH IN LENGTH SPACING SPACING TRAFFIC PFR FOOT ALONG TAPERS ALONG TANGENTS OF WIDTH IN FEET IN FEET MILES/HOUR

LEGEND

BREAKAWAY BARRICADES

DIRECTION OF TRAFFIC FLOW

CONSTRUCTION SIGNS

SHOWING CAUTION MODE

BUFFER ZONE

WORK AREA

DRUMS

FLAGGER

BREAKAWAY BARRICADES WITH SIGN

PRECAST CONCRETE CURB CONSTRUCTION BARRIER (TYPE SPECIFIED)

ILLUMINATED FLASHING ARROW MOUNTED ON TOWING VEHICLE

ILLUMINATED FLASHING ARROW MOUNTED ON TOWING VEHICLE

TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION AND

TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION AND

ARROW BOARD SHOWING ARROW PATTERN (Left, Right, Both)

TEMPORARY CRASH CUSHION, INERTIAL BARRIER SYSTEM

TEMPORARY CRASH CUSHION, (all other approved)

PAINT STRIPING TRUCK OR OTHER OPERATING VEHICLE

SHOWING ARROW PATTERN (Left, Right, Both)

ARROW BOARD SHOWING CAUTION MODE

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

REGULATORY APPROACH SPEED OF	RECOMMENDED SIGHT DISTANCE TO BEGINNING OF CHANNELIZING TAPERS			
TRAFFIC	DES	IRABLE	MINIMUM	
MILES/HOUR	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	875	1150	550	
60	1000	1275	650	
65	1050		725	

- 1. AVOIDANCE MANEUVER IS FOR A SPEED, PATH, AND/OR DIRECTION CHANGE PRIOR TO THE 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:**

- 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 LOCATIONS 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
- 4. RAMPS AND/OR SIDE STREETS ENTERING THE ROADWAY AFTER THE FIRST ADVANCE WARNING SIGN SHALL BE PROVIDED WITH AT LEAST ONE W20-IF SIGN (ROAD WORK
- 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.
- CONFLICTING OR NON-OPERATING SIGNAL INDICATIONS ON EITHER THE EXISTING, TEMPORARY,OR PROPOSED TRAFFIC SIGNAL SYSTEMS SHALL BE BAGGED OR
- 7. MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES - PART VI "STANDARDS 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
- 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 LANE CLOSURE REQUIRE A TRAILER MOUNTED ILLUMINATED FLASHING ARROW TO REMAIN AT THE END OF THE TAPER, THE TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION THAT SHALL MOVE WITH THE WORK AREAS TO KEEP A 70 FEET MIN. AND 150 FEET MAX. 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 THE STANDARD SPECIFICATIONS.
- 14. ALL EXCAVATED AREAS WITHIN OR ADJACENT TO THE ROADWAY SHALL BE BACKFILLED AND PLACED ON A MINIMUM 6H: 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.
- 15. WHERE REQUIRED, THE CONTRACTOR SHALL MAKE PROVISIONS FOR MAINTAINING PEDESTRIAN CROSSING LOCATIONS AND TYPE AS DIRECTED BY THE ENGINEER.
- 16. HOT MIX ASPHALT PLACED DURING THE VARIOUS CONSTRUCTION STAGES SHALL BE TRANSITIONED 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
- 17. 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.
- 18. CONSTRUCTION ZONE SPEED LIMIT WILL BE DETERMINED BY THE REGIONAL TRAFFIC ENGINEER AT THE TIME OF OR DURING CONSTRUCTION, AS REQUESTED BY THE
- 19. THE SPEED LIMIT, R2-1 (BLACK ON WHITE) SIGN SHALL BE LOCATED THROUGH WORK AREAS AS DIRECTED BY THE REGIONAL TRAFFIC ENGINEER.
- 20. 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.
- 21. TRAFFIC FINES DOUBLED IN WORK AREA R(NJ)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.
- 22. THE FINAL HOT MIX ASPHALT 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.
- 23. 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.
- 24. CONES MAY BE SUBSTITUTED FOR DRUMS AND INSTALLED UPON THE APPROVAL OF THE ENGINEER.
- 25. SEE SPECIFICATION SECTION 320130 TRAFFIC CONTROL.



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RECONSTRUCTION OF **BEACH AVE** CITY OF CAPE MAY

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