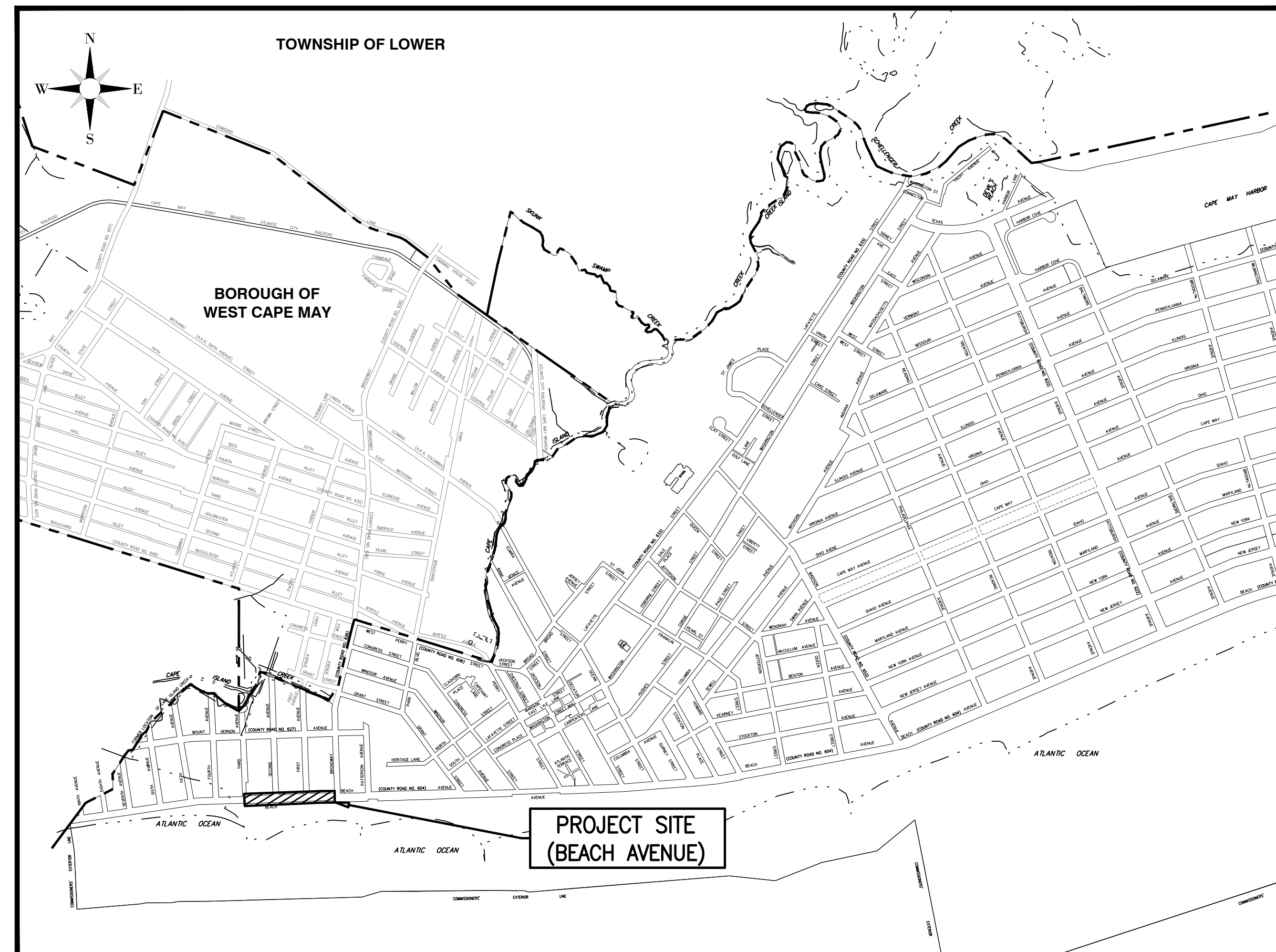


# RECONSTRUCTION OF BEACH AVENUE (BROADWAY TO THE COVE)

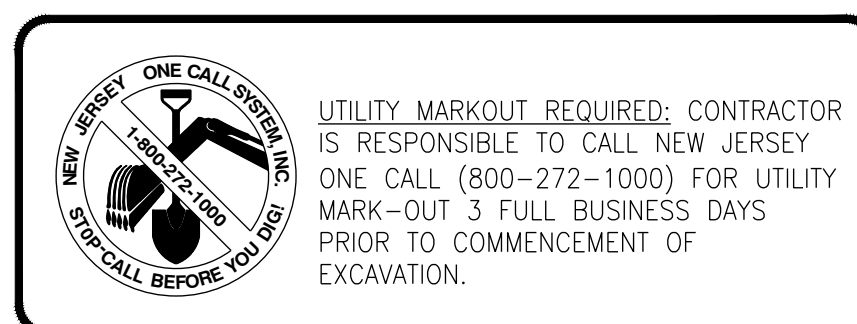
UTILITIES	
<b>PUBLIC WORKS:</b>	CITY OF CAPE MAY PUBLIC WORKS DEPARTMENT ERIC PRUSINSKI, SUPERINTENDENT 830 CANNING HOUSE LANE CAPE MAY, NJ 08204 609-884-9570
<b>SEWER:</b>	CITY OF CAPE MAY SEWER DEPARTMENT ROBERT CUMMISKEY, SUPERINTENDENT 643 WASHINGTON STREET CAPE MAY, NJ 08204 609-884-9576  CAPE MAY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



PROJECT LOCATION MAP

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  
HEREIN.



## 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

TITLE SHEET	
<p>ENGINEERS, SURVEYORS AND PLANNERS</p>	
4701 NEW JERSEY AVENUE WILDWOOD, NJ 08260 PHONE (609) 854-3311 FAX (609) 854-4323 WWW.DEBLASIOASSOC.COM Certification of Authorization No. 24GA28284900	
<b>RECONSTRUCTION OF BEACH AVE</b> CITY OF CAPE MAY CAPE MAY COUNTY, NEW JERSEY	
Design: CMS	Drawn: CMS
Check: MAD	Date: 08/2024
NO. DATE APPR. REVISION	
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Scale: AS NOTED	Job No. 20M-C-015 Sheet No. 1 Total 12
DATE: 8/2024 MARC A. DEBLASIO, PE New Jersey License No. 41599	

**LEGEND**

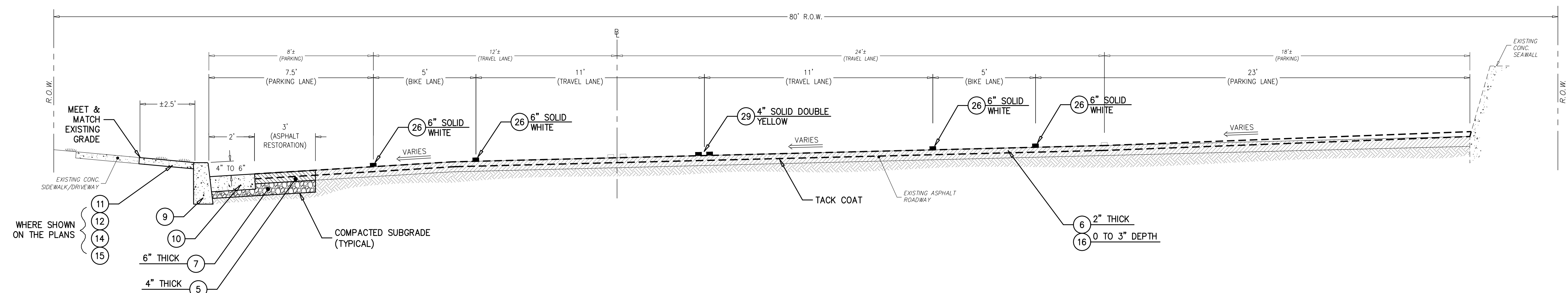
**GENERAL NOTES**

**ESTIMATE OF QUANTITIES**

EXISTING	PROPOSED
43.02	

- 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.
- 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.
- 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.
- 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%.
- 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:
  - CONFORMITY WITH THE APPROVED PLANS AS WELL AS STANDARDS AND SPECIFICATIONS OF THE CITY OF CAPE MAY.
  - 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.
  - 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.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PUBLIC SAFETY AND SECURING THE SITE AT ALL TIMES.
- 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.
- 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).
- EXISTING MATERIALS DESIGNATED FOR REMOVAL SHALL BE REMOVED BY THE CONTRACTOR UNLESS OTHERWISE DIRECTED BY THE OWNER.
- DISTURBED AREAS SHALL BE RESTORED AS SOON AS PRACTICAL.
- 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.
- 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.
- 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.
- THE CONTRACTOR SHALL SUBMIT TO THE CITY OF CAPE MAY ASBULTS PLANS AND SHALL IDENTIFY ALL CORRECTIONS THAT HAVE BEEN PERFORMED.
- 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.

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 PAVEMENT 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 TELEVISIONING 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	



**TYPICAL SECTION - BEACH AVENUE**  
N.T.S.

**ESTIMATE OF QUANTITIES, NOTES, LEGEND & TYPICAL SECTION**

**DeBlasio & Associates**  
ENGINEERS, SURVEYORS AND PLANNERS

4701 NEW JERSEY AVENUE  
WILDWOOD, NJ 08260  
PHONE (609) 854-3311  
FAX (609) 854-4323  
WWW.DEBLASIOASSOC.COM  
Certification of Authorization No. 24CA28284900

**RECONSTRUCTION OF BEACH AVENUE**  
CITY OF CAPE MAY  
CAPE MAY COUNTY, NEW JERSEY

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

NO.	DATE	APPR.	REVISION

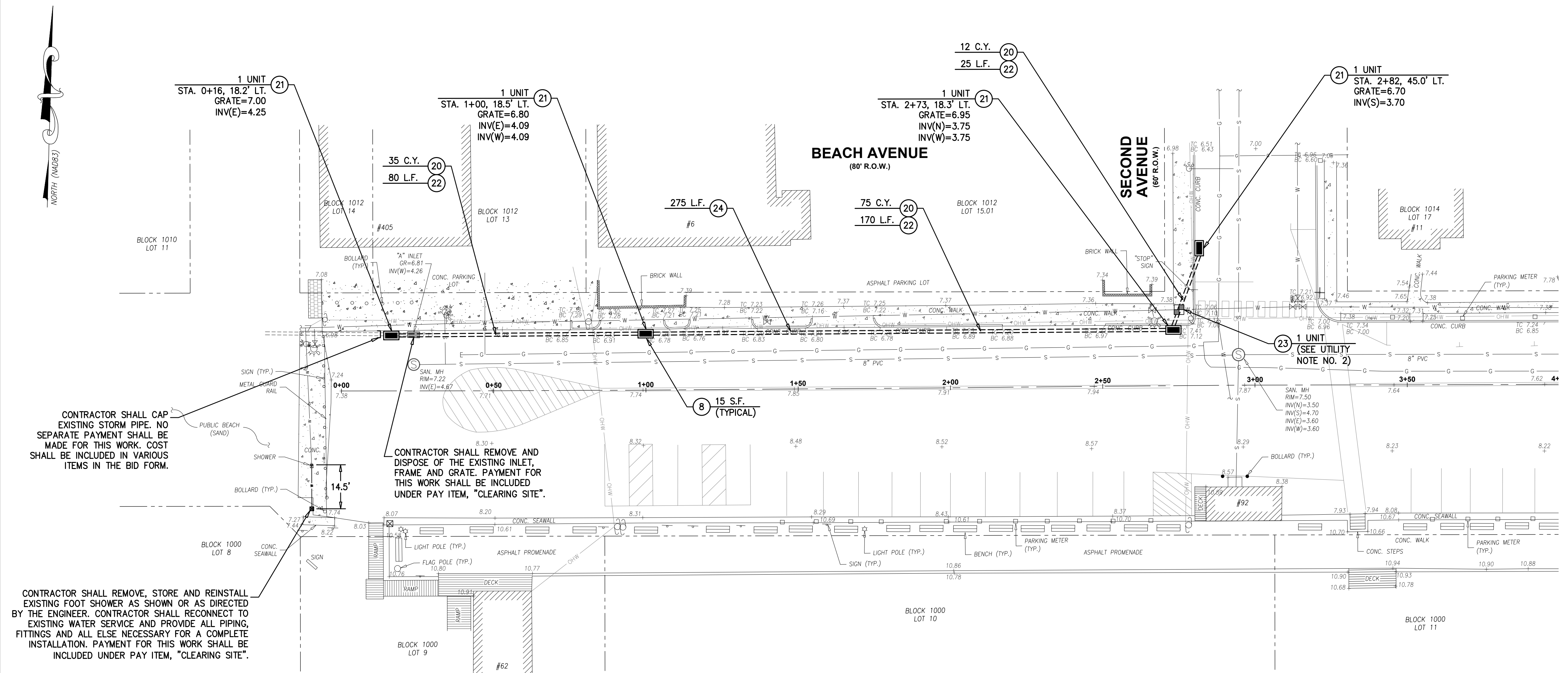
**MARC A. DEBLASIO, PE** DATE  
New Jersey License No. 41599

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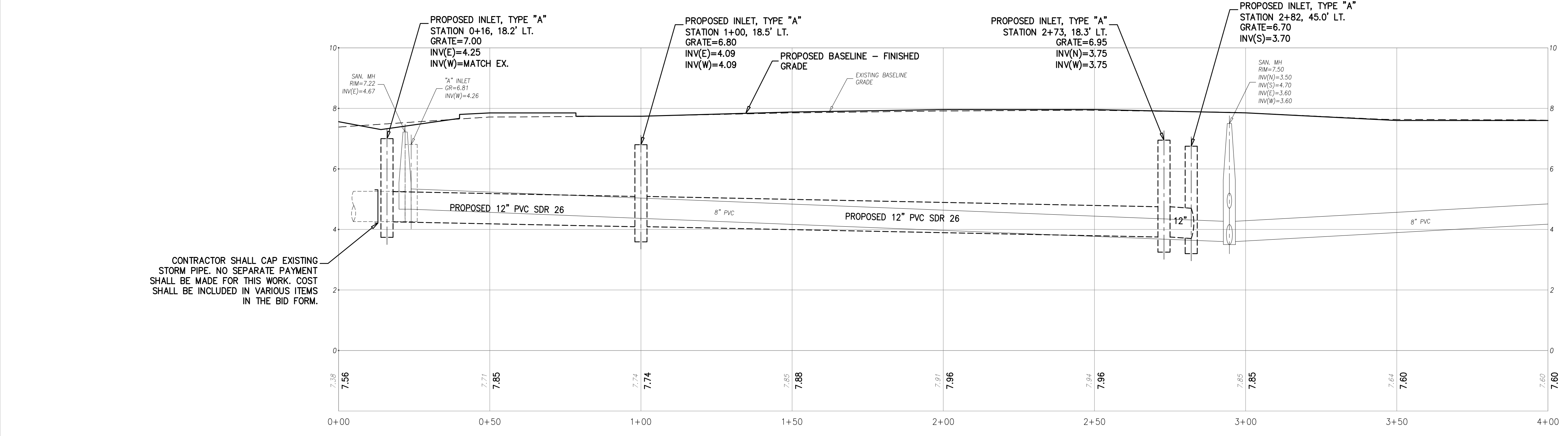
ITEM NO.	TO BE CONSTRUCTED	UNIT	PLAN QUANTITY	AS-BUILT QUANTITY
8	INLET FILTERS, TYPE 1	S.F.	60	
20	SELECT FILL	C.Y.	122	
21	INLETS, TYPE "A"	UNIT	4	
22	12" POLYVINYL CHLORIDE (PVC) STORM SEWER MAIN, SDR26	L.F.	275	
23	TEST PIT EXCAVATION	UNIT	1	
24	CLEANING AND TELEVISIONING STORM SEWER SYSTEM	L.F.	275	



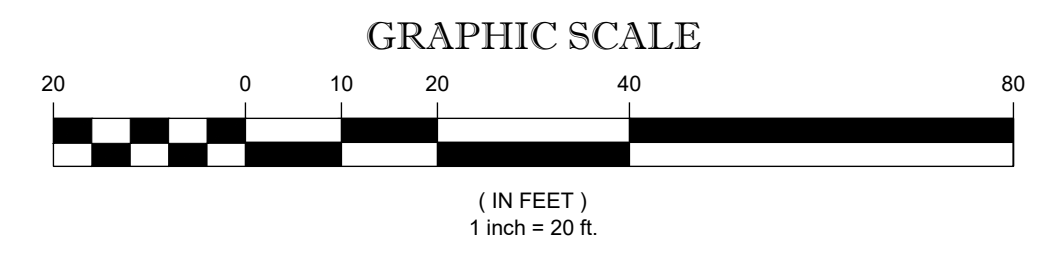
**UTILITY PLAN**  
SCALE : 1"=20'

- SURVEY NOTES:**
- EXISTING TOPOGRAPHIC INFORMATION SHOWN WAS BASED ON A FIELD SURVEY PERFORMED BY DEBLASIO & ASSOCIATES, P.C. UNDER THE SUPERVISION OF HENRY V. ENGL, N.J.P.L.S. NO. 35833, COMPLETED ON 12/21/2023.
  - ELEVATIONS SHOWN HEREON ARE IN FEET AND REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
  - HORIZONTAL CONTROL IS REFERENCED TO THE NEW JERSEY STATE PLANE COORDINATE SYSTEM (NAD 1983).
  - 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.

- UTILITY NOTES:**
- THE CONTRACTOR SHALL CONFIRM PIPE INVERT ELEVATIONS AND REPORT ANY CONFLICTS BETWEEN THE PROPOSED AND EXISTING UTILITIES IMMEDIATELY TO THE ENGINEER. THERE SHALL BE NO SEPARATE PAYMENT FOR THIS WORK BUT THE COST SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE PROPOSAL.
  - THE CONTRACTOR SHALL COMPLETE A TEST PIT TO DETERMINE THE DEPTH, SIZE AND MATERIAL OF THE EXISTING UTILITY IN QUESTION AND SUBMIT THIS INFORMATION TO THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.



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



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

**DEBLASIO & ASSOCIATES**  
ENGINEERS, SURVEYORS AND PLANNERS

4701 NEW JERSEY AVENUE  
WILDWOOD, NJ 08260  
PHONE (609) 854-3311  
FAX (609) 854-4323  
WWW.DEBLASIOASSOC.COM  
Certification of Authorization No. 24CA28284900

**RECONSTRUCTION OF  
BEACH AVENUE  
CITY OF CAPE MAY  
CAPE MAY COUNTY, NEW JERSEY**

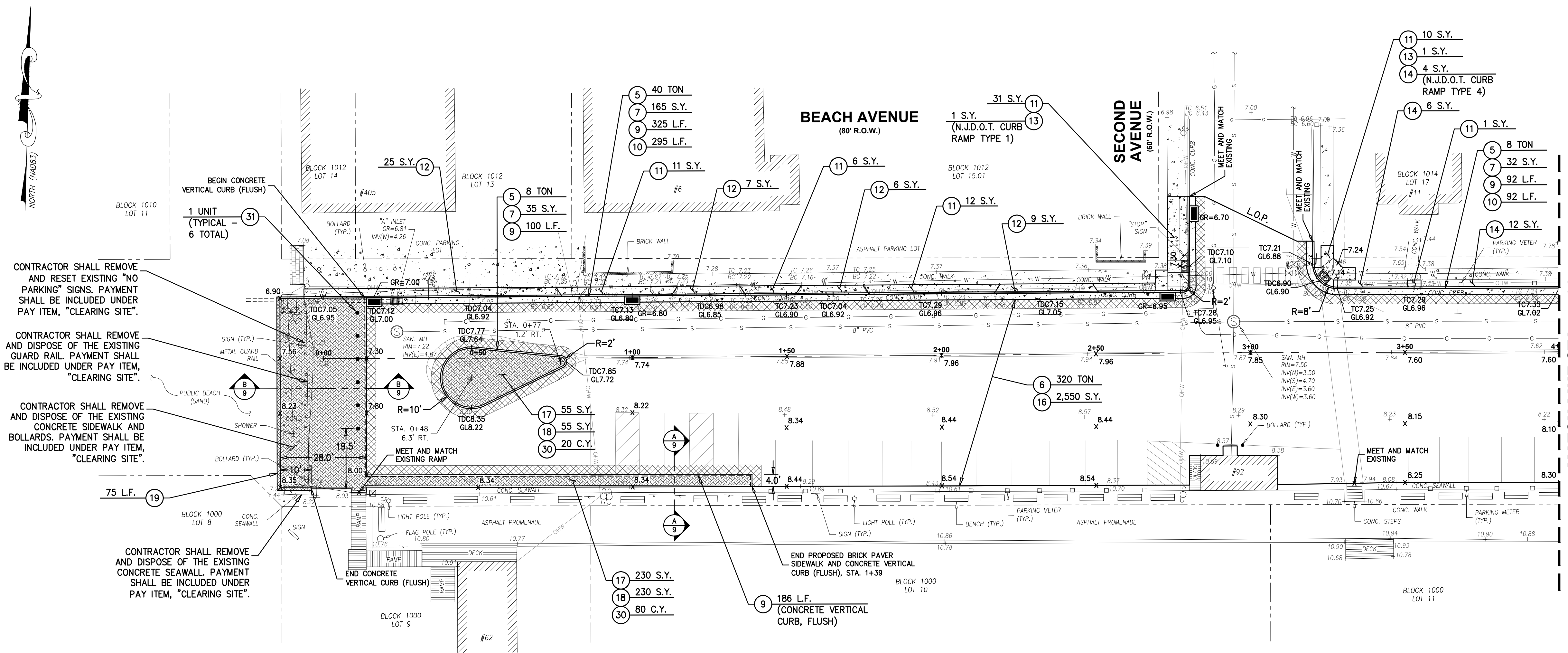
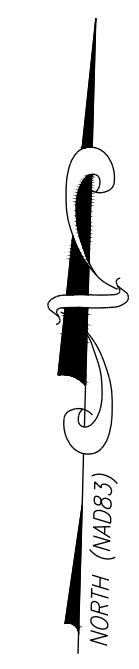
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**MARC A. DEBLASIO, PE**  
New Jersey License No. 41599  
Scale: AS NOTED  
Job No.: 24-C-015  
Sheet No.: 3  
Total: 12

8/2024  
DATE



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, 0 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	

CONTRACTOR SHALL REMOVE AND RESET EXISTING "NO PARKING" SIGNS. PAYMENT SHALL BE INCLUDED UNDER PAY ITEM, "CLEARING SITE".

CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING GUARD RAIL. PAYMENT SHALL BE INCLUDED UNDER PAY ITEM, "CLEARING SITE".

CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING CONCRETE SIDEWALK AND BOLLARDS. PAYMENT SHALL BE INCLUDED UNDER PAY ITEM, "CLEARING SITE".

CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING CONCRETE SEAWALL. PAYMENT SHALL BE INCLUDED UNDER PAY ITEM, "CLEARING SITE".

**SURVEY NOTES:**

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

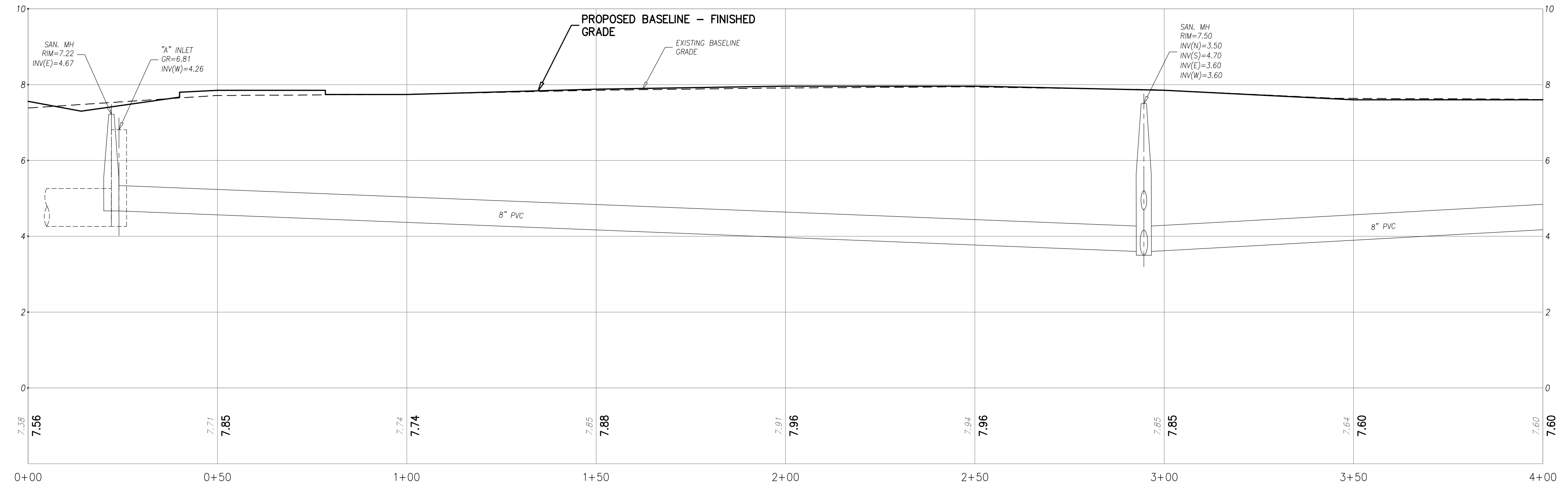
- LIMITS OF PAVING (L.O.P.) SHALL BE SAWCUT FULL DEPTH AND SEALED WITH HOT-POURED JOINT SEALER, MEET AND MATCH EXISTING PAVEMENT ELEVATIONS. THERE SHALL BE NO SEPARATE PAYMENT FOR THIS WORK BUT THE COST SHALL BE INCLUDED IN THE SURFACE PAVING.
- LIMITS OF SIDEWALK REPLACEMENT SHALL BE SAWCUT TO A NEAT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

**ROADWAY PLAN**

SCALE : 1"=20'

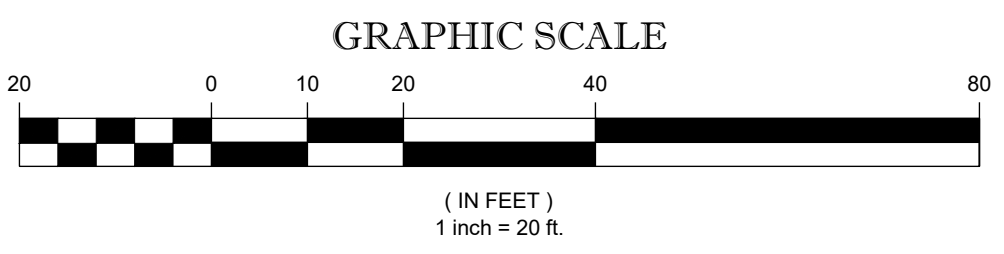
**LEGEND**

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



**PROFILE**

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



NO.	DATE	APPR.	REVISION

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

**DEBLASIO & ASSOCIATES**  
ENGINEERS, SURVEYORS AND PLANNERS

4701 NEW JERSEY AVENUE  
WILDWOOD, NJ 08260  
PHONE (609) 854-3311  
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WWW.DEBLASIOASSOC.COM  
Certification of Authorization No. 24CA28284900

**RECONSTRUCTION OF BEACH AVENUE**  
CITY OF CAPE MAY  
CAPE MAY COUNTY, NEW JERSEY

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

8/2024  
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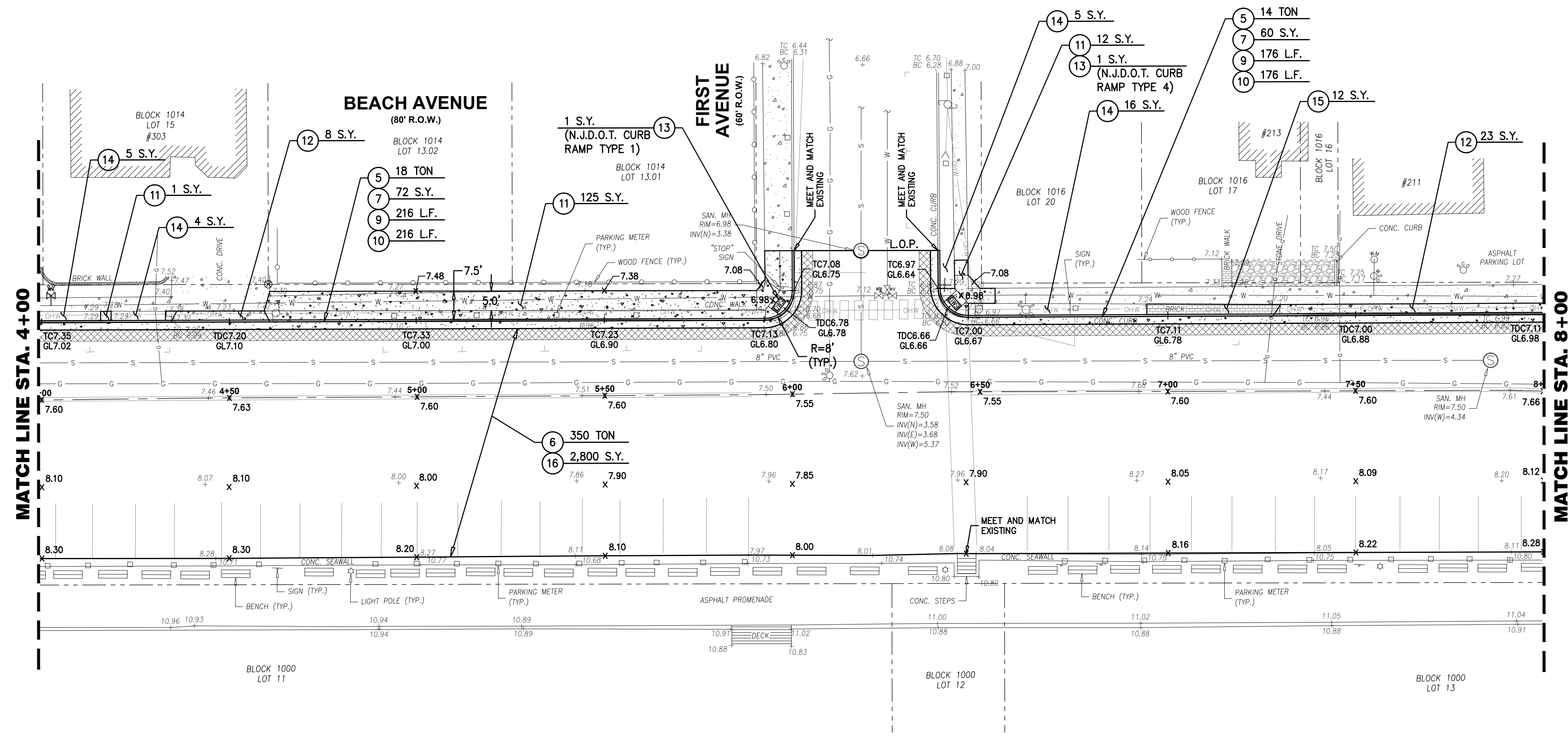
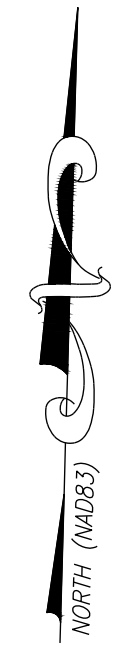
**MARC A. DEBLASIO, PE**  
New Jersey License No. 41599

Scale:	App. No.:	Sheet No.:	Total:
AS NOTED	COM-C-015	4	12

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, 0 TO 3" DEPTH	S.Y.	2,800	

- SURVEY NOTES:**
- EXISTING TOPOGRAPHIC INFORMATION SHOWN WAS BASED ON A FIELD SURVEY PERFORMED BY DEBLASIO & ASSOCIATES, P.C. UNDER THE SUPERVISION OF HENRY V. ENGL, N.J.P.L.S. NO. 35833, COMPLETED ON 12/21/2023.
  - ELEVATIONS SHOWN HEREON ARE IN FEET AND REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
  - HORIZONTAL CONTROL IS REFERENCED TO THE NEW JERSEY STATE PLANE COORDINATE SYSTEM (NAD 1983).
  - 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.

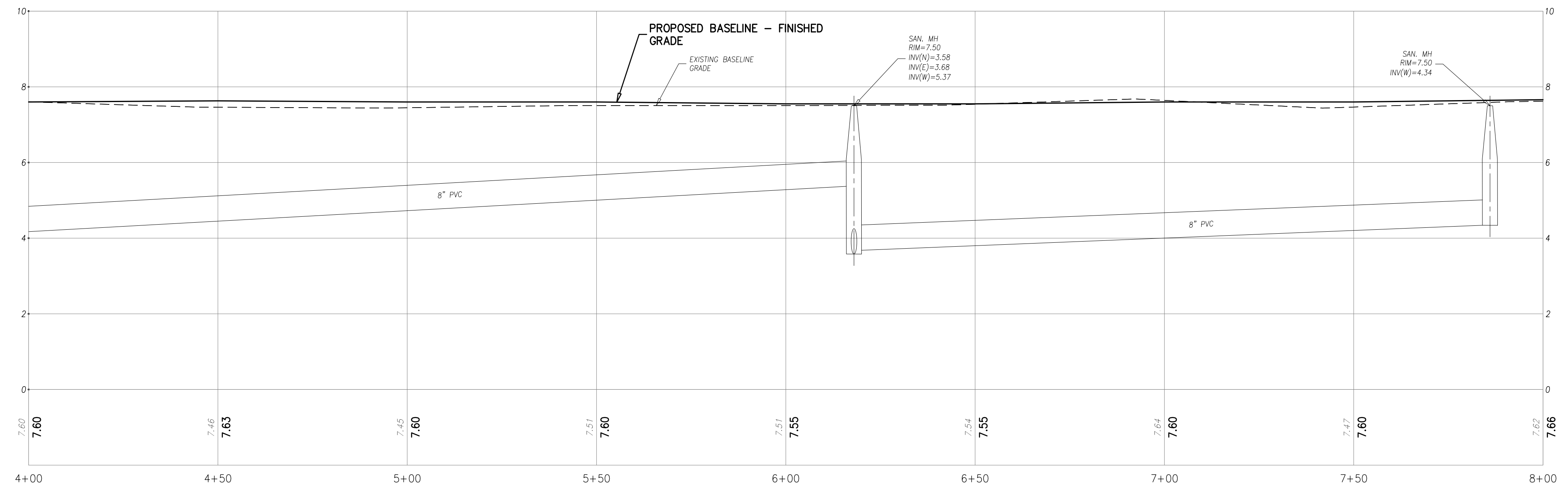
- ROADWAY NOTES:**
- LIMITS OF PAVING (L.O.P.) SHALL BE SAWCUT FULL DEPTH AND SEALED WITH HOT-POURED JOINT SEALER, MEET AND MATCH EXISTING PAVEMENT ELEVATIONS. THERE SHALL BE NO SEPARATE PAYMENT FOR THIS WORK BUT THE COST SHALL BE INCLUDED IN THE SURFACE PAVING.
  - LIMITS OF SIDEWALK REPLACEMENT SHALL 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.



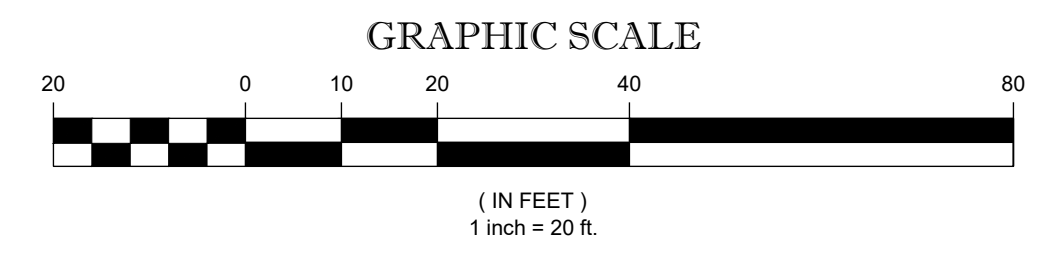
**ROADWAY PLAN**  
SCALE : 1"=20'

**LEGEND**

	ASPHALT PAVEMENT RESTORATION LIMITS (REFER TO DETAIL SHEET 10 OF 12)
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**PROFILE**  
HORIZONTAL SCALE : 1"=20'  
VERTICAL SCALE : 1"=10'



NO.	DATE	APPR.	REVISION

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

**DEBLASIO & ASSOCIATES**  
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. 24CA28284900

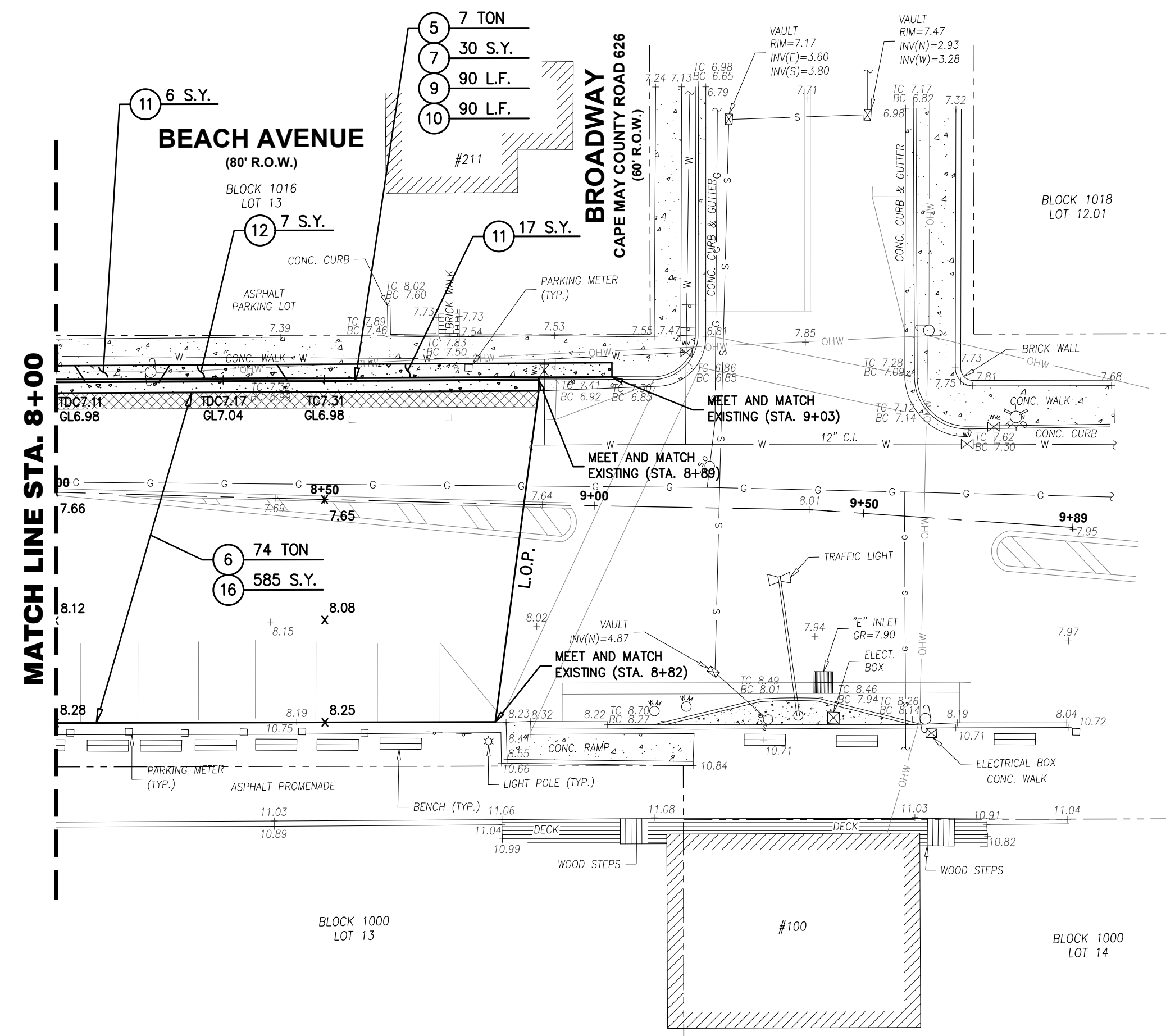
**RECONSTRUCTION OF BEACH AVENUE**  
CITY OF CAPE MAY  
CAPE MAY COUNTY, NEW JERSEY

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

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

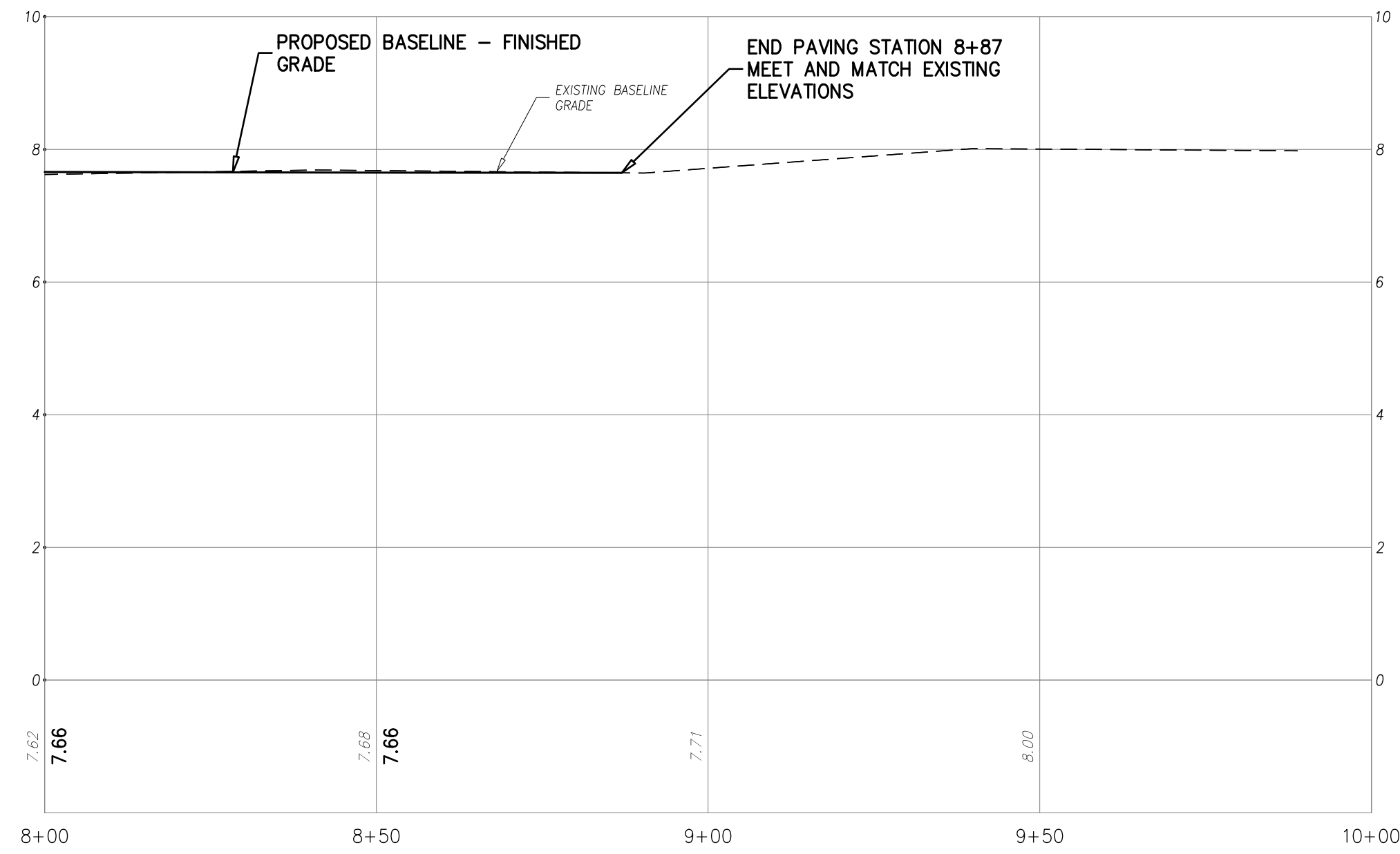
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Job No.: 2024-C-015  
Sheet No.: 5  
Total: 12

8/2024  
DATE



**ROADWAY PLAN**

SCALE : 1"=20'



**PROFILE**

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

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, 0 TO 3" DEPTH	S.Y.	585	

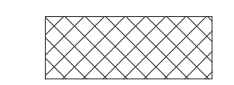
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- LIMITS OF SIDEWALK REPLACEMENT SHALL BE SAWCUT TO A NEAT AND CLEAN EDGE WHERE NO JOINT EXISTS. THE COSTS OF SAWCUTTING SHALL BE INCLUDED IN THE RELATED PAY ITEMS IN THE BID FORM.

**LEGEND**



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

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

**DEBLASIO & ASSOCIATES**

CONSULTING ENGINEERS AND PLANNERS

4701 NEW JERSEY AVENUE  
WILDWOOD, NJ 08260  
PHONE (609) 854-3311  
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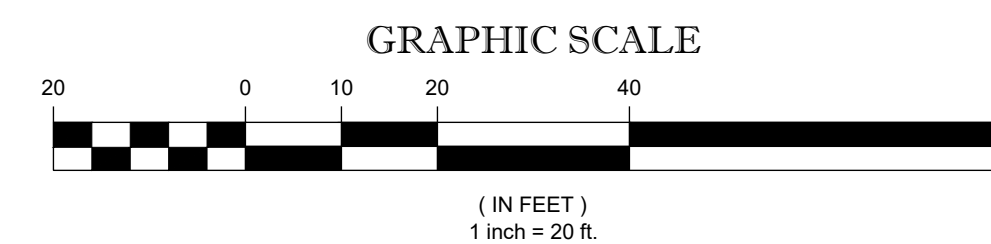
**RECONSTRUCTION OF BEACH AVENUE CITY OF CAPE MAY CAPE MAY COUNTY, NEW JERSEY**

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

NO.	DATE	APPR.	REVISION

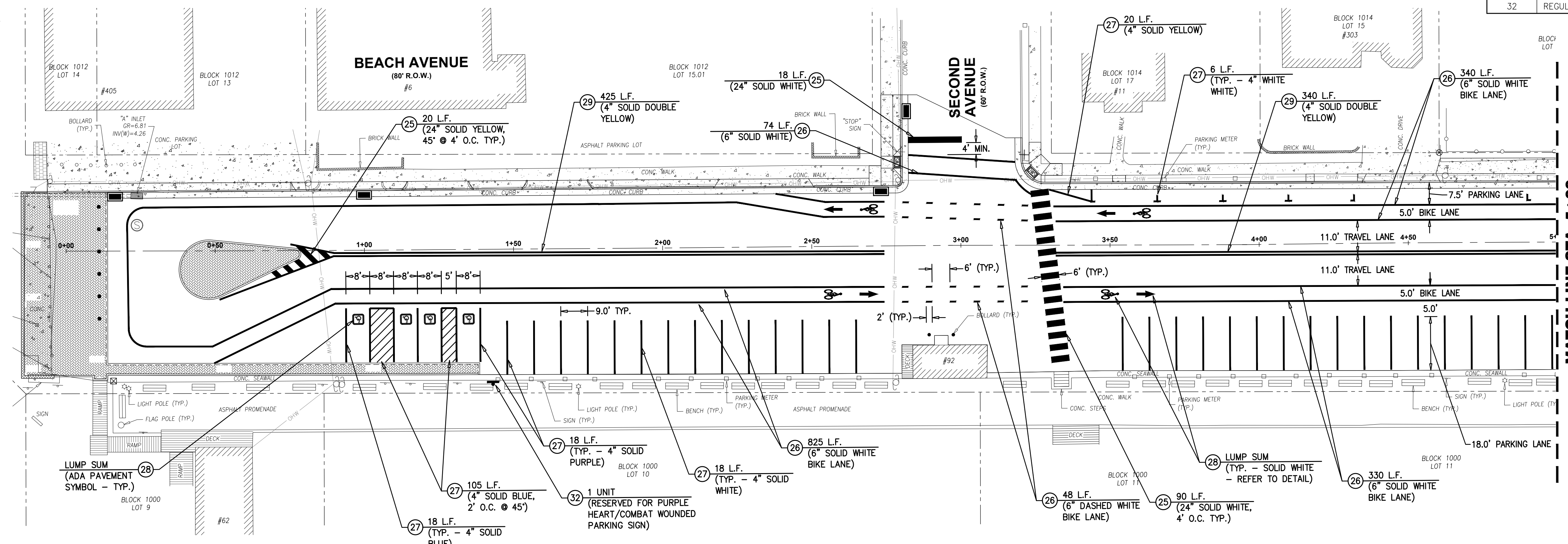
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New Jersey License No. 41599  
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Total: 12

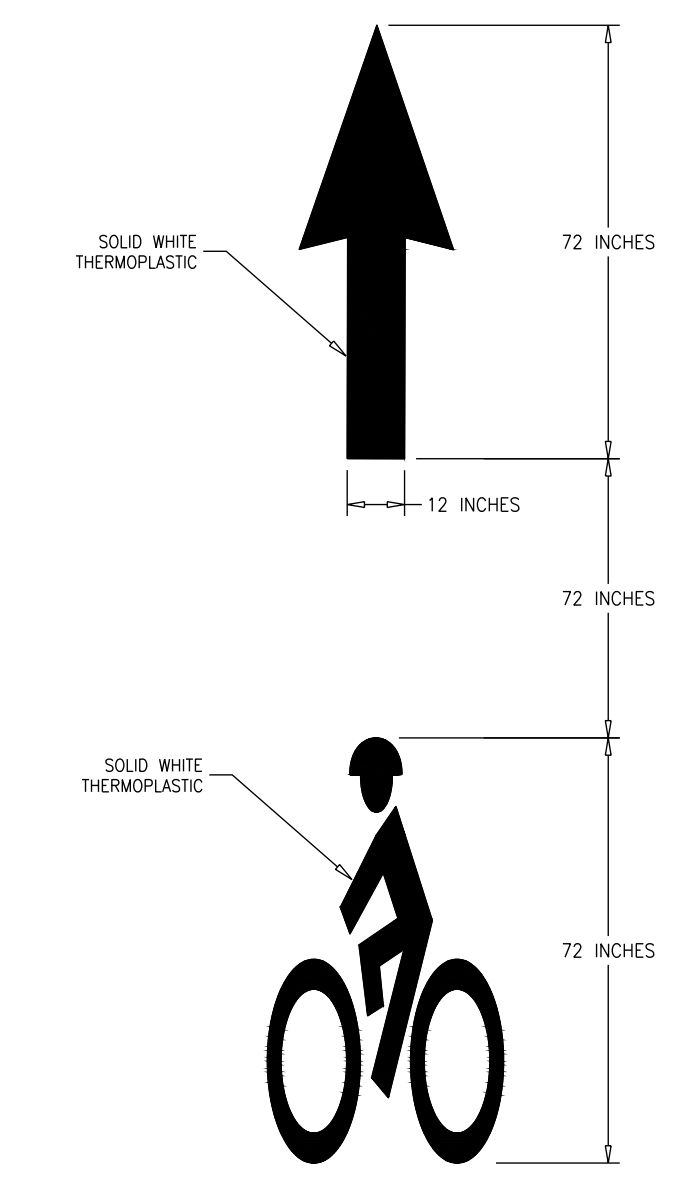


8/2024  
DATE

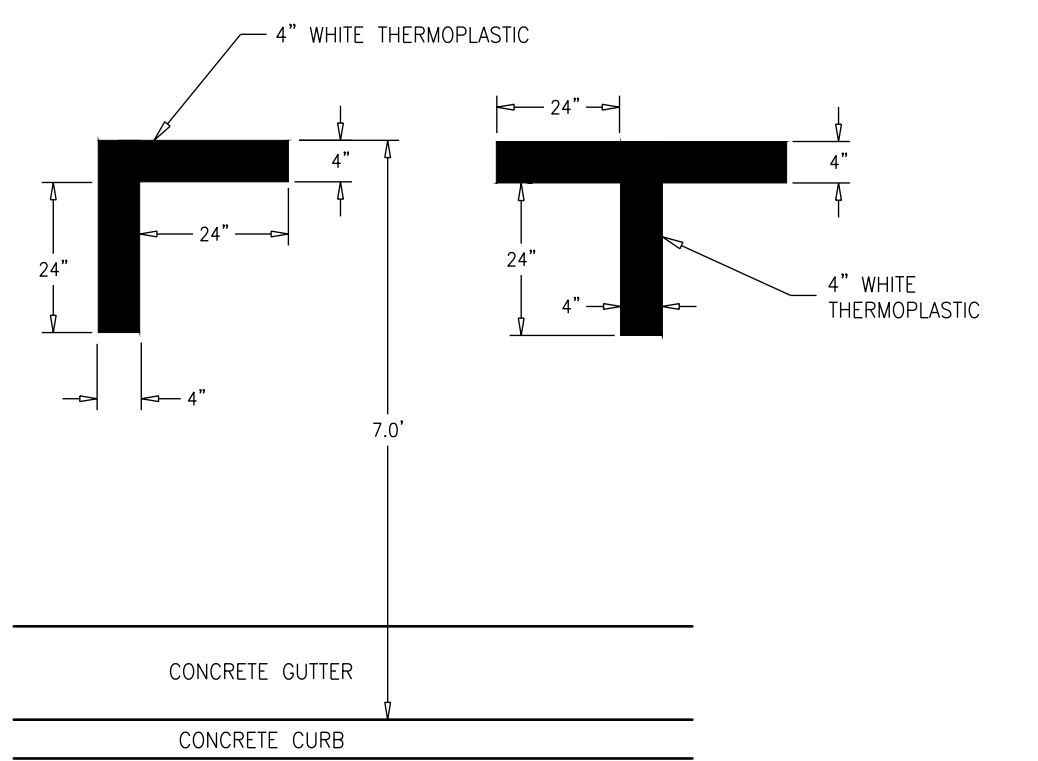
ITEM NO.	TO BE CONSTRUCTED	UNIT	PLAN QUANTITY	AS-BUILT QUANTITY
25	TRAFFIC MARKINGS LINES, 24"	L.F.	248	
26	TRAFFIC MARKINGS LINES, 6"	L.F.	3,114	
27	TRAFFIC MARKINGS LINES, 4"	L.F.	1,664	
28	TRAFFIC MARKINGS SYMBOLS	LUMP SUM	LUMP SUM	
29	TRAFFIC STRIPES, 4"	L.F.	1,455	
32	REGULATORY SIGNS AND POSTS	UNIT	1	



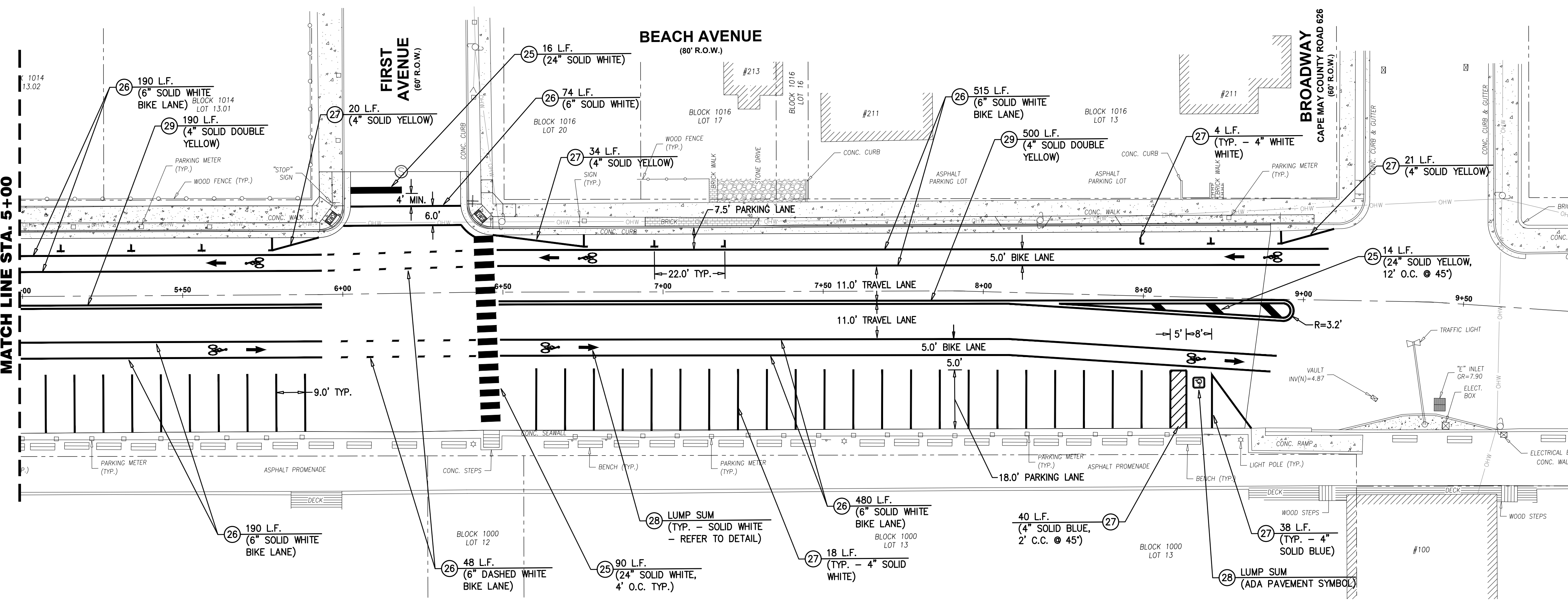
**PLAN**  
SCALE : 1"=20'



**BIKE LANE PAVEMENT MARKING LAYOUT DETAIL**  
N.T.S.



**PARKING STALL PAVEMENT MARKING DETAIL**  
N.T.S.



**PLAN**  
SCALE : 1"=20'

- STRIPING NOTES:**
- ALL PERMANENT LONGITUDINAL WHITE AND YELLOW LANE LINES SHALL BE LONG-LIFE EPOXY RESIN TRAFFIC STRIPES.
  - ALL PERMANENT DIAGONAL CORE MARKINGS, CROSS WALKS, STOP BARS, PARKING STALL DELINEATORS, WORDS, AND ARROWS SHALL BE LONG-LIFE THERMOPLASTIC TRAFFIC MARKINGS.
  - ALL TEMPORARY LONGITUDINAL CENTER LINES SHALL BE REMOVABLE PAVEMENT MARKING TAPE.
  - TRAFFIC STRIPING AND TRAFFIC MARKINGS OF DIFFERENT MATERIALS SHALL NOT BE OVERLAPPED.
  - TRANSVERSE DIMENSIONS INVOLVING PAINTING LINES ARE FROM THE CENTER OF PAINTED WHITE LINE TO THE CENTER OF 6 INCH SPACE BETWEEN DOUBLE 4 INCH YELLOW LINES UNLESS OTHERWISE SHOWN.

**TRAFFIC STRIPING PLAN**

**DeBlasio & Associates**  
ENGINEERS, SURVEYORS AND PLANNERS

4701 NEW JERSEY AVENUE  
WILDWOOD, NJ 08260  
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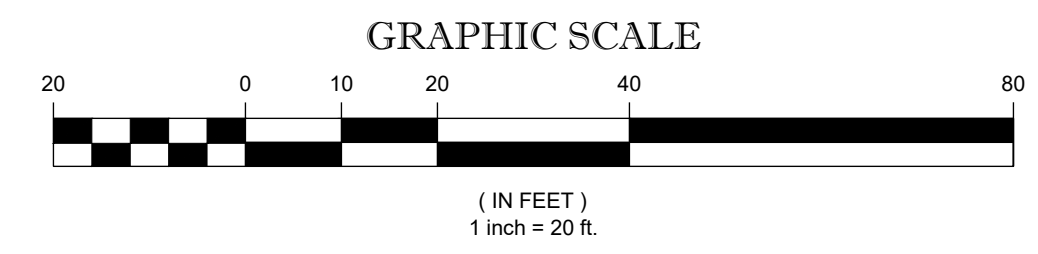
**RECONSTRUCTION OF BEACH AVENUE**  
CITY OF CAPE MAY  
CAPE MAY COUNTY, NEW JERSEY

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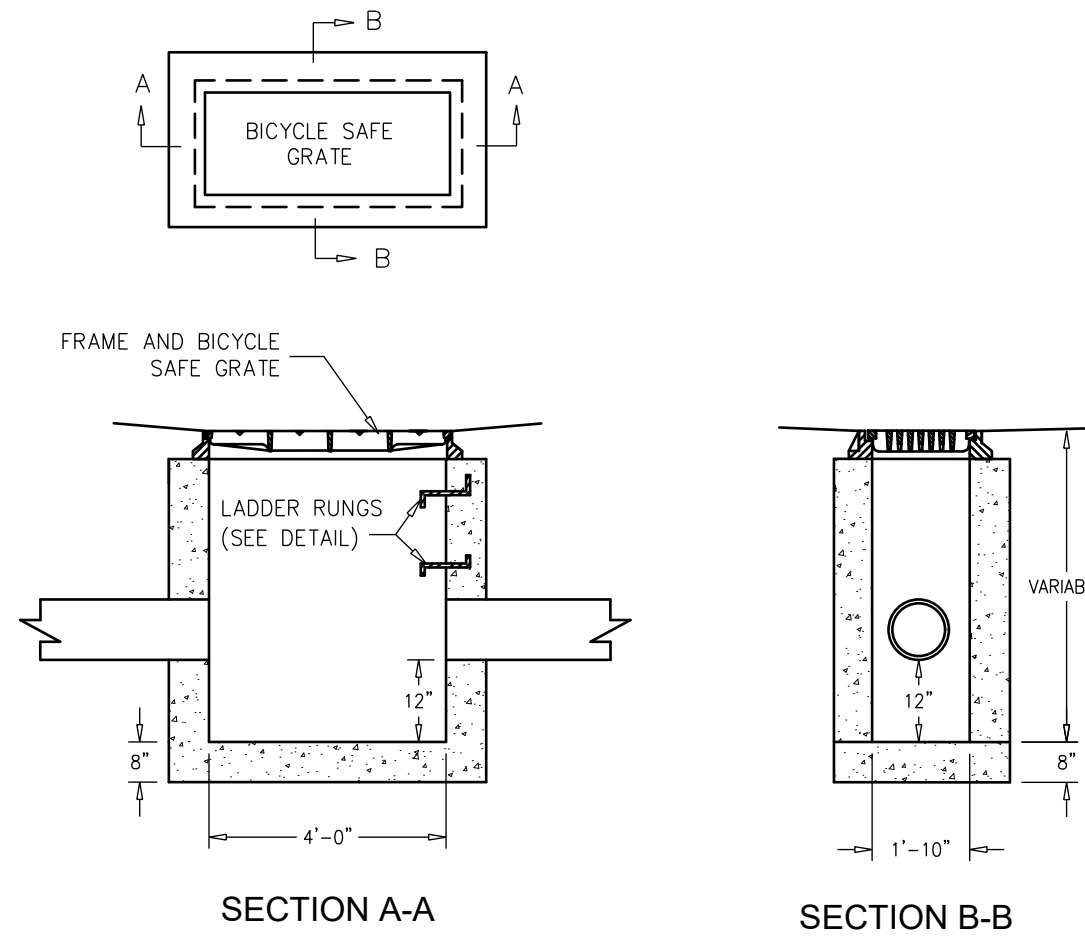
**MARC A. DEBLASIO, PE** DATE  
New Jersey License No. 41599

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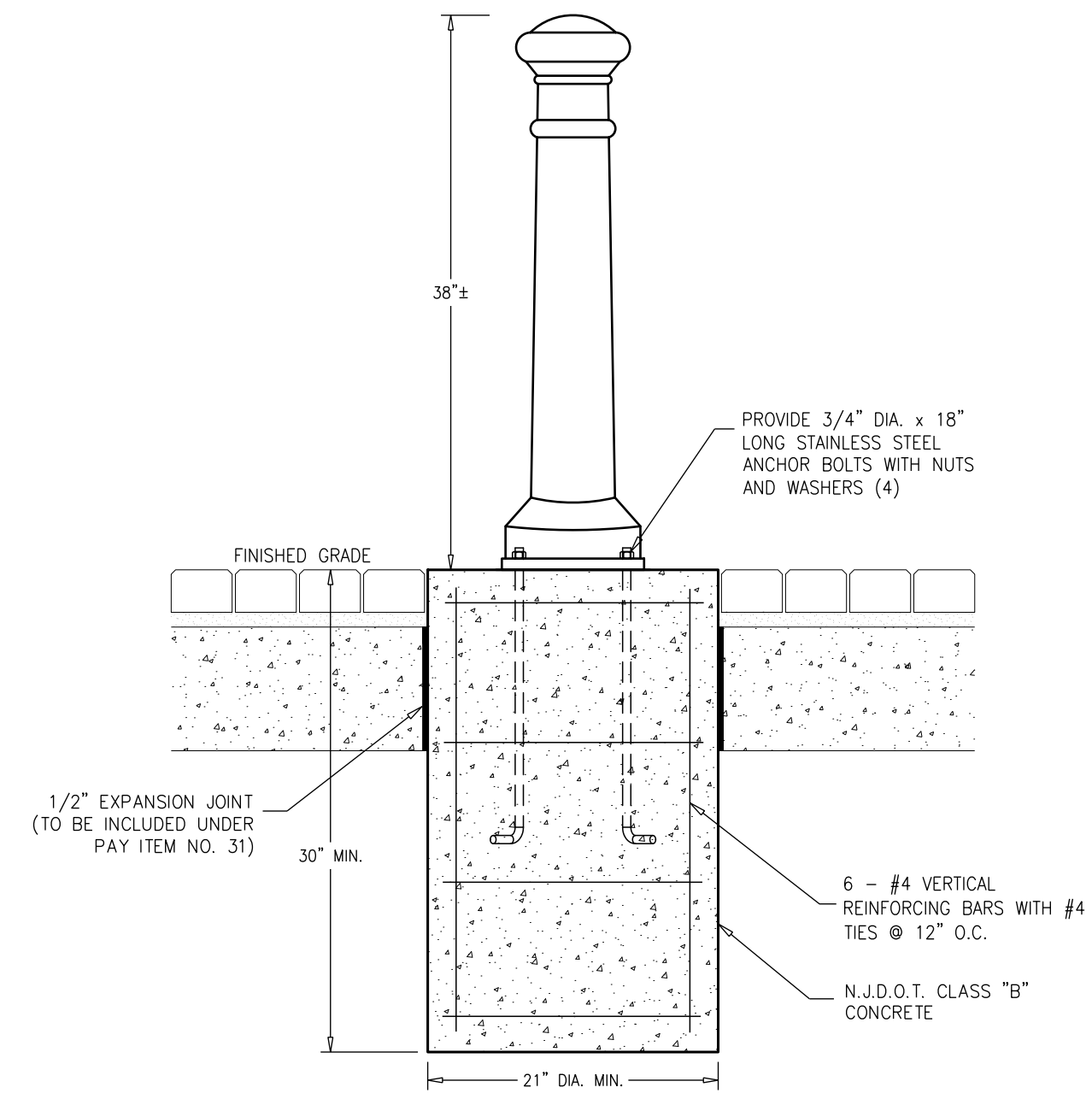
**INLET GENERAL NOTES:**

- 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.
  - CORRELLING OF INLET WALLS WILL BE PERMITTED AT THE RATE OF 1/2" INCH PER 8 INCHES OF HEIGHT; MAXIMUM CORBEL 6 INCHES PER WALL.
  - 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.
  - 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.
  - 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.
  - CASTINGS FOR PRECAST INLETS SHALL BE ADJUSTED TO GRADE WITH COURSES OF BRICK, AS REQUIRED, 12 INCHES MAXIMUM.
  - 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.
  - MINIMUM WALL REINFORCEMENT FOR PRECAST INLETS TYPES A, B, C, E, D-1, D-2 AND B MODIFIED:
- | DEPTH BELOW TOP OF GRATE | HORIZONTAL REINF. | VERTICAL REINF. | WALL THK. |
|--------------------------|-------------------|-----------------|-----------|
| 0' TO 10'-0"             | #13 @ 10" C.C.    | #13 @ 18" C.C.  | 6"        |
| 10'-1" TO 15'-0"         | #13 @ 8" C.C.     | #13 @ 18" C.C.  | 6"        |
| 15'-1" TO 20'-0"         | #13 @ 6" C.C.     | #13 @ 18" C.C.  | 6"        |
- 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 | REINFORCEMENT  |
|--------------------------|--|
| 0' TO 10'-0"             | WWF 3 x 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.                                 |
| 15'-1" TO 20'-0"         | WWF 3 x 6 W6 ADD #10 BAR @ 9" HORIZONTAL OR ADD #13 BAR AT 15" HORIZONTAL. |
- ALL INLETS AND MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT N.J.DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND ITS AMENDMENTS.



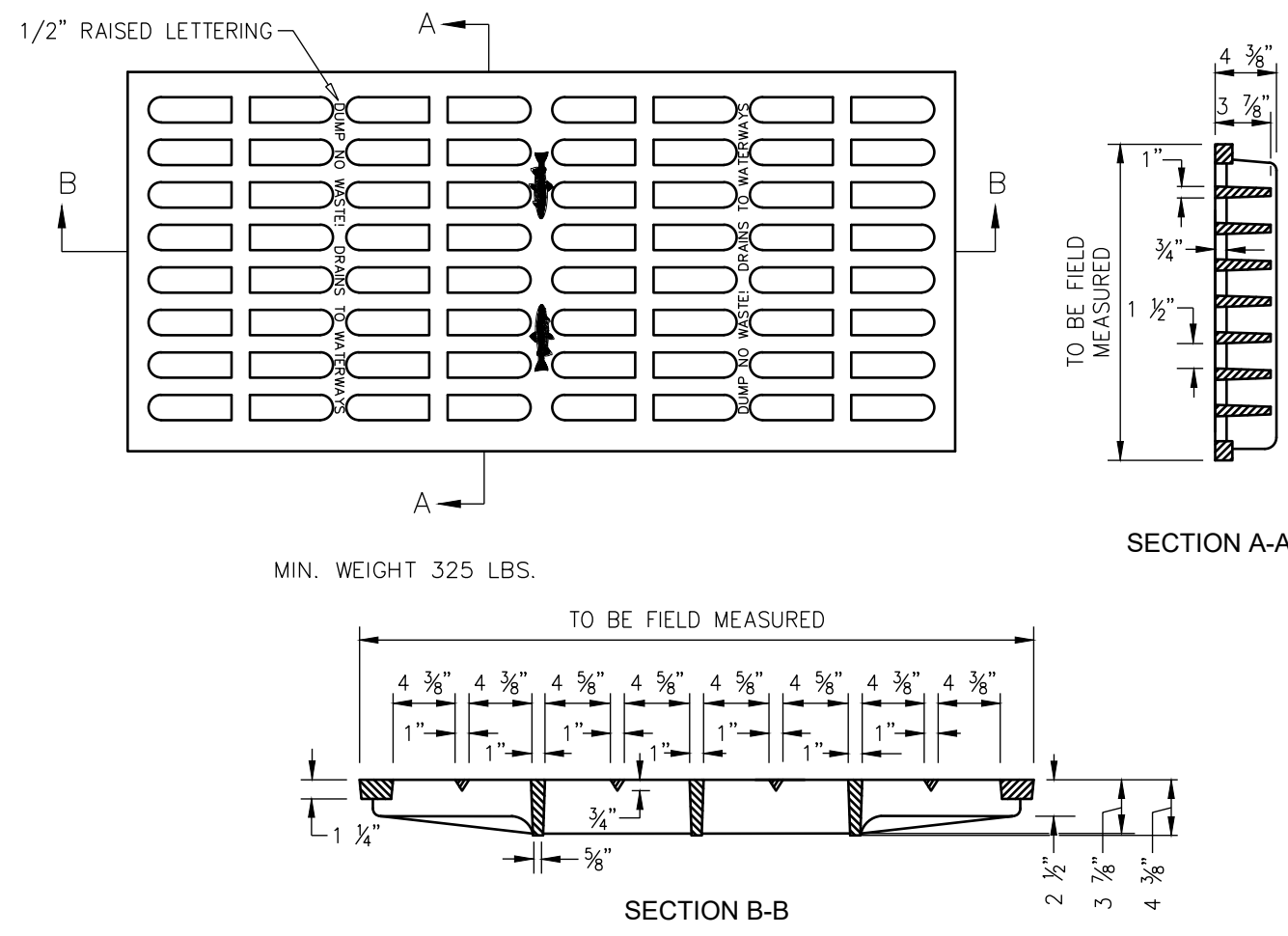
- NOTES:**
- INLETS AND PIPING SHALL BE INSTALLED IN DRY GROUND. DEWATERING AS NEEDED TO PROVIDE DRY CONDITIONS SHALL BE INCLUDED AT NO ADDITIONAL COST.
  - NO ADDITIONAL PAYMENT WILL BE MADE FOR INSTALLATION OF PIPE AND STRUCTURES UP TO ONE(1) FOOT DEEPER THAN DESIGN INVERTS.

**INLET, TYPE "A"**  
N.T.S.

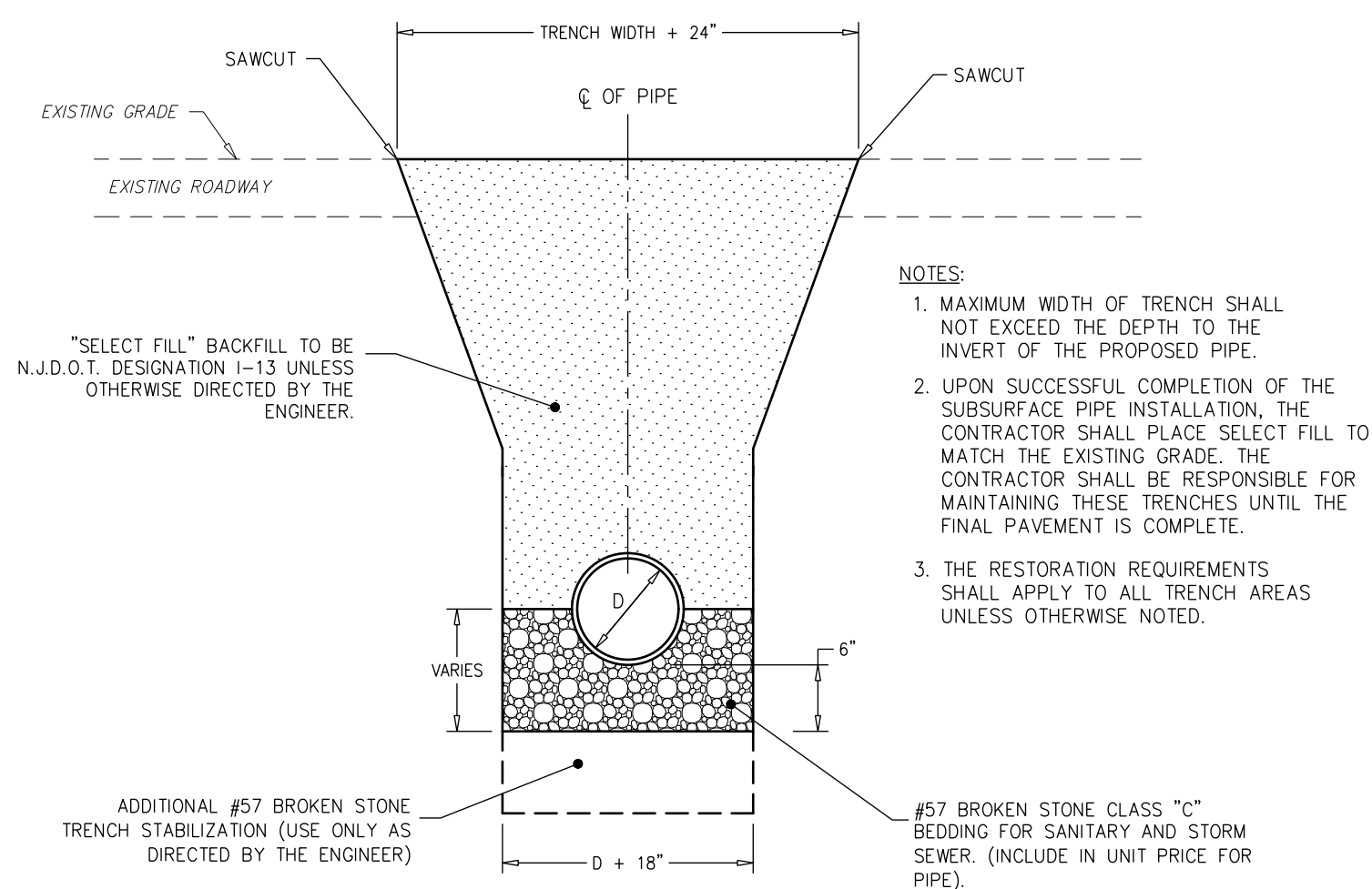


- NOTES:**
- BOLLARD SHALL BE 38" x 8" DIA. SURFACE MOUNT DUCTILE IRON DECORATIVE BOLLARD MODEL NO. BOL-GI-38-B AS MANUFACTURED BY VESTIL MANUFACTURING CO. OR APPROVED EQUAL.
  - INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
  - COLOR SHALL BE POWDER COATED BLACK.
  - SEPARATE PAYMENT SHALL NOT BE MADE FOR CONCRETE FOOTINGS. ALL COSTS SHOULD BE INCLUDED UNDER PAY ITEM, "DECORATIVE BOLLARDS."

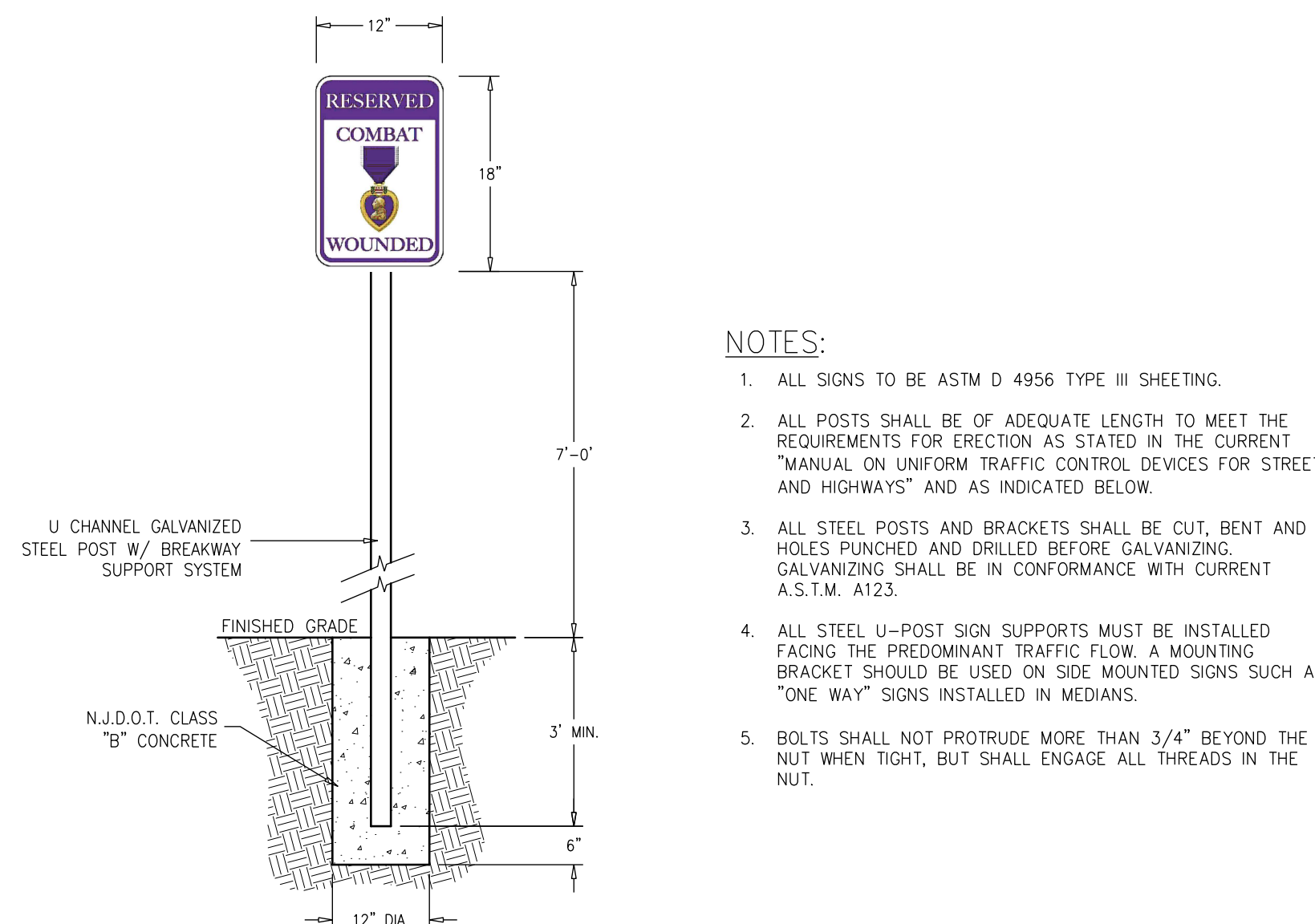
**DECORATIVE BOLLARD DETAIL**  
N.T.S.



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

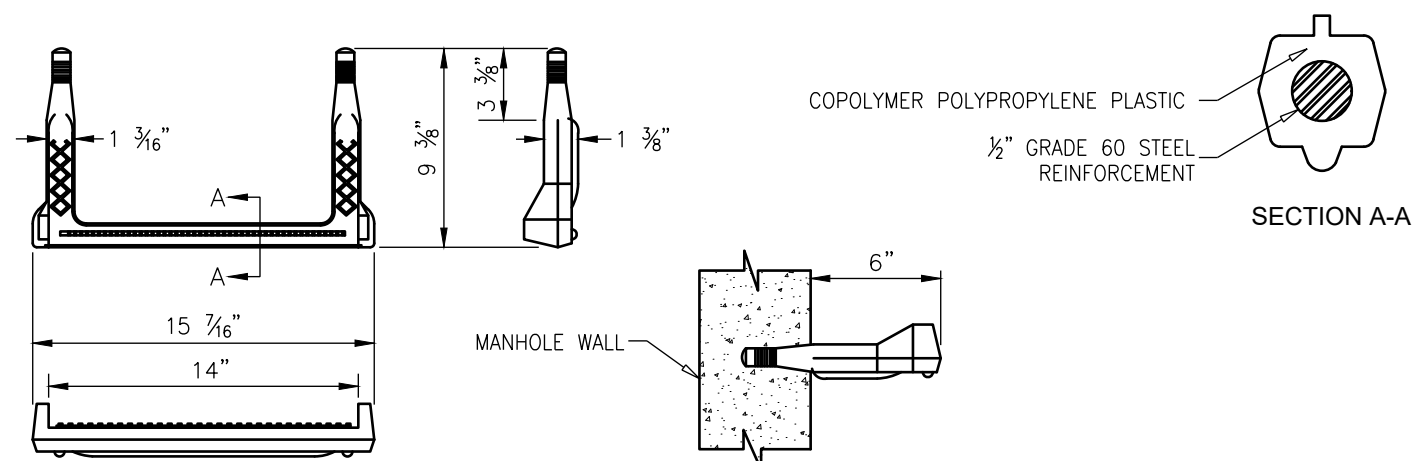


**TYPICAL TRENCH RESTORATION DETAIL FOR STORM PIPE**  
N.T.S.



**REGULATORY SIGN AND POST DETAIL**  
N.T.S.

- NOTES:**
- ALL SIGNS TO BE ASTM D 4956 TYPE III SHEETING.
  - 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.
  - ALL STEEL POSTS AND BRACKETS SHALL BE CUT, BENT AND HOLES PUNCHED AND DRILLED BEFORE GALVANIZING. GALVANIZING SHALL BE IN CONFORMANCE WITH CURRENT A.S.T.M. A123.
  - 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.
  - BOLTS SHALL NOT PROTRUDE MORE THAN 3/4" BEYOND THE NUT WHEN TIGHT, BUT SHALL ENGAGE ALL THREADS IN THE NUT.



**NOTE:**  
LADDER RUNGS FACING TRAFFIC 12" C TO C

**COPOLYMER POLYPROPYLENE PLASTIC LADDER RUNG**  
N.T.S.

**CONSTRUCTION DETAILS**

**DeBlasio & Associates**  
ENGINEERS, SURVEYORS AND PLANNERS

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WILDWOOD, NJ 08260  
PHONE (609) 854-3311  
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**RECONSTRUCTION OF BEACH AVE CITY OF CAPE MAY CAPE MAY COUNTY, NEW JERSEY**

Design:	Drawn:	Check:	Date:
MWA	MWA	MAD	08/2024

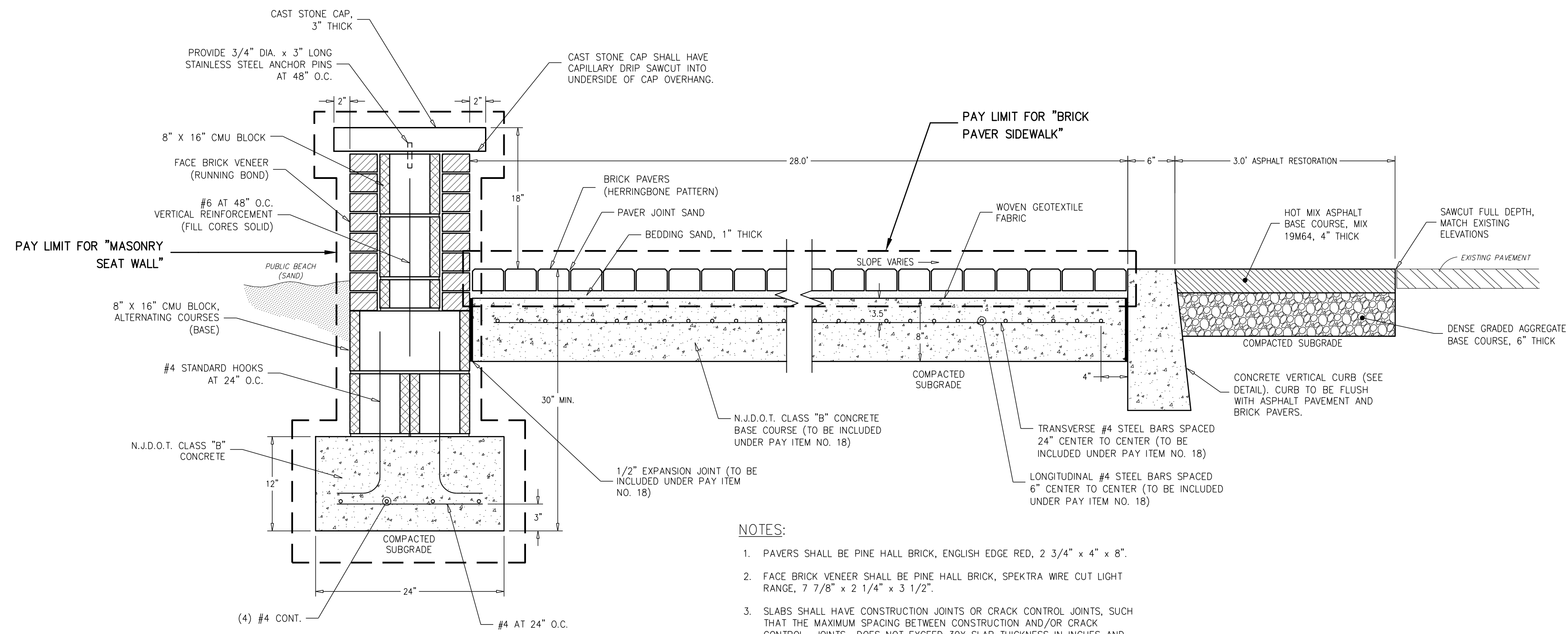
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**MARC A. DEBLASIO, PE** DATE  
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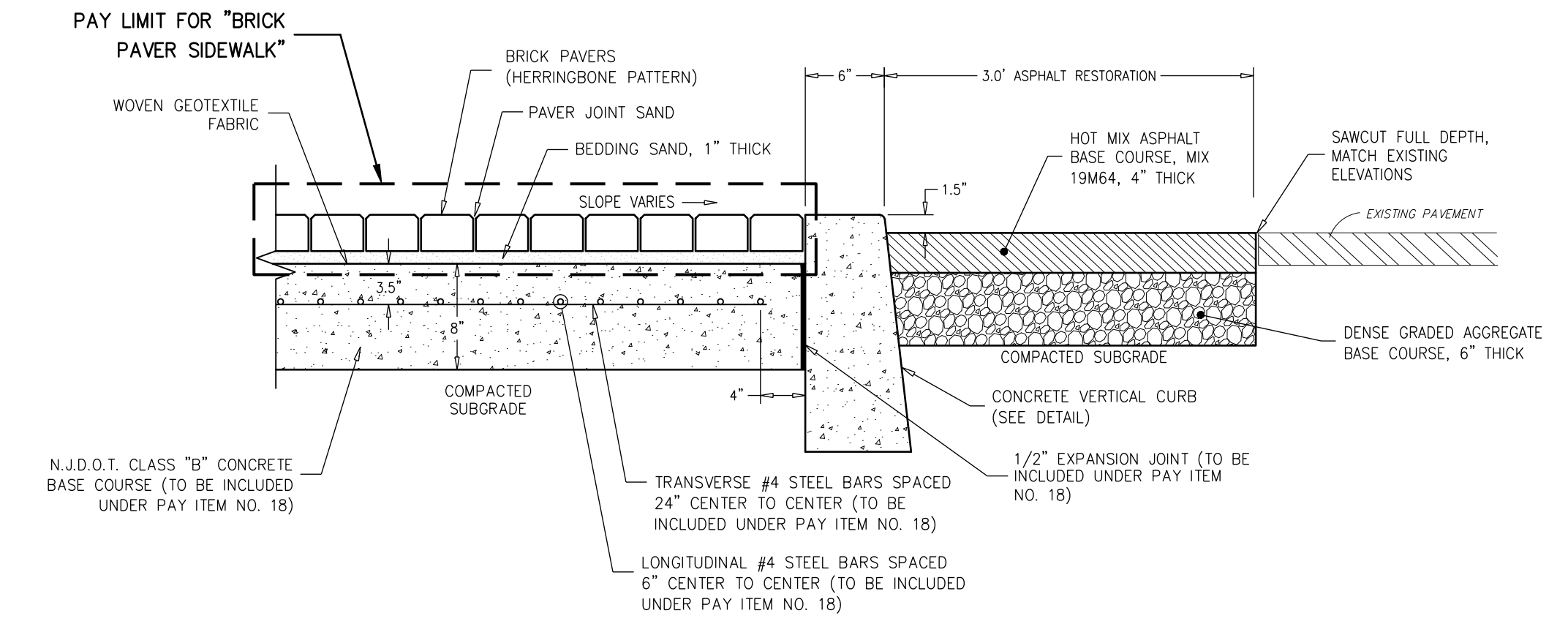
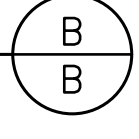
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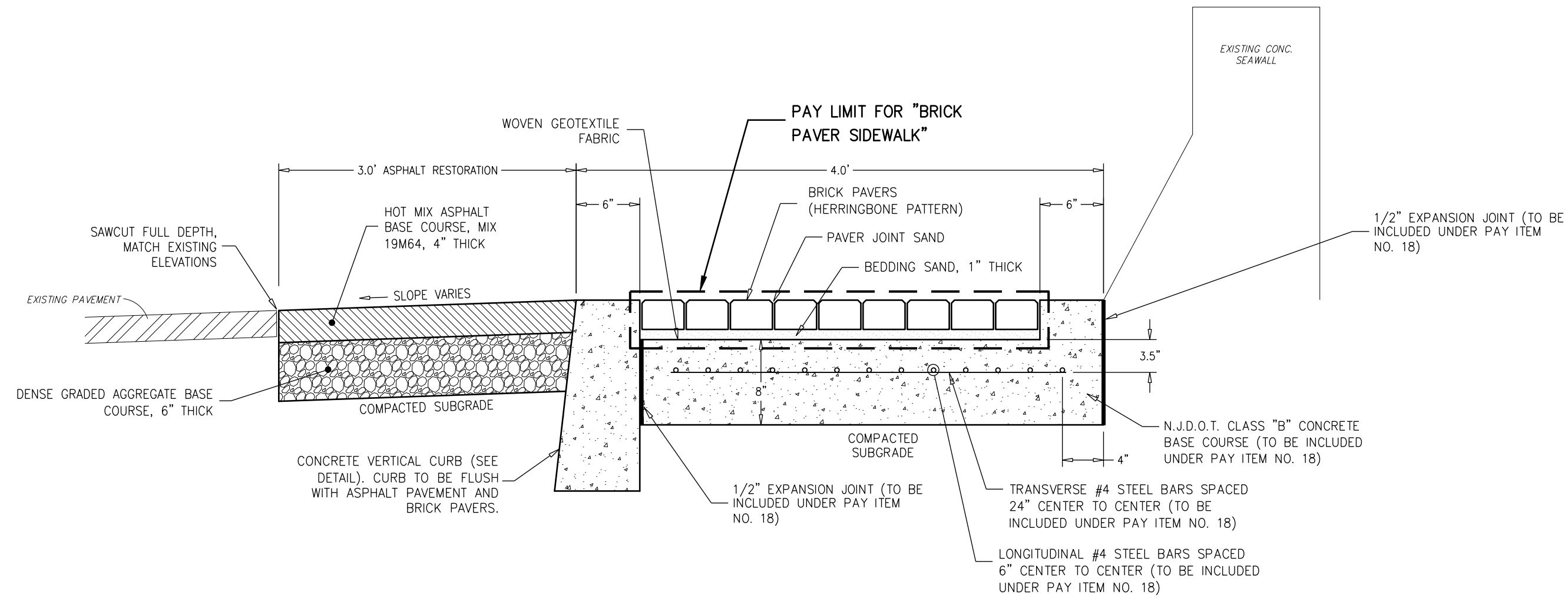
- NOTES:**
- PAVERS SHALL BE PINE HALL BRICK, ENGLISH EDGE RED, 2 3/4" x 4" x 8".
  - FACE BRICK VENEER SHALL BE PINE HALL BRICK, SPEKTRA WIRE CUT LIGHT RANGE, 7 7/8" x 2 1/4" x 3 1/2".
  - SLABS SHALL HAVE CONSTRUCTION JOINTS OR CRACK CONTROL JOINTS, SUCH THAT THE MAXIMUM SPACING BETWEEN CONSTRUCTION AND/OR CRACK CONTROL JOINTS DOES NOT EXCEED 30X SLAB THICKNESS IN INCHES AND LENGTH TO WIDTH RATIO 1.5:1.
  - 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 AND SEAT WALL DETAIL**  
N.T.S.



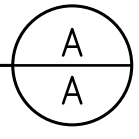
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  - CONTROL JOINTS SHALL BE NO LESS THAN 1/3 OF THE THICKNESS OF THE SLAB AND NEVER DELAYED MORE THAN 24 HOURS.

**BRICK PAVER ISLAND DETAIL**  
N.T.S.



- NOTES:**
- PAVERS SHALL BE PINE HALL BRICK, ENGLISH EDGE RED, 2 3/4" x 4" x 8".
  - 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.
  - 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**  
N.T.S.



**CONSTRUCTION DETAILS**

**DeBlasio & Associates**  
ENGINEERS, SURVEYORS AND PLANNERS

4701 NEW JERSEY AVENUE  
WILDWOOD, NJ 08260  
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FAX (609) 854-4323  
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**RECONSTRUCTION OF BEACH AVE**  
CITY OF CAPE MAY  
CAPE MAY COUNTY, NEW JERSEY

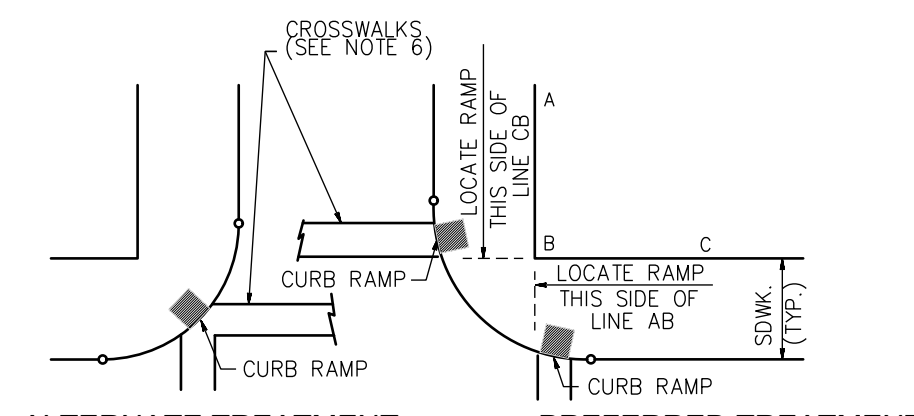
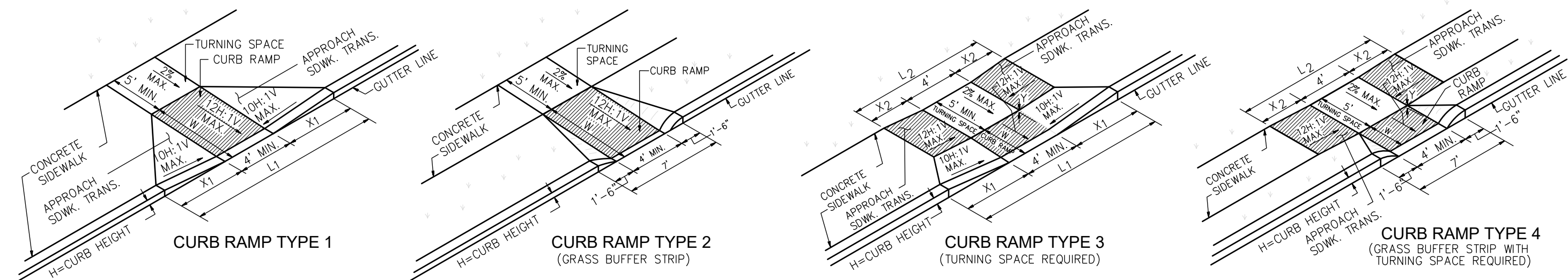
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**MARC A. DEBLASIO, PE** DATE  
New Jersey License No. 41599

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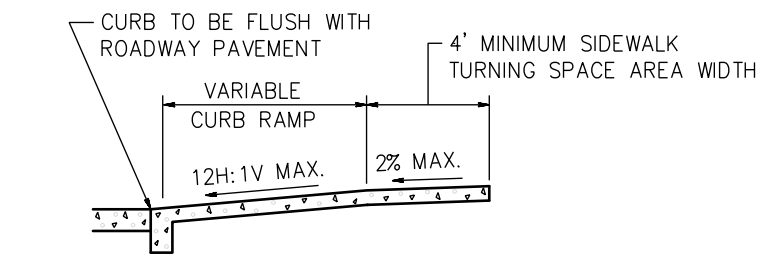
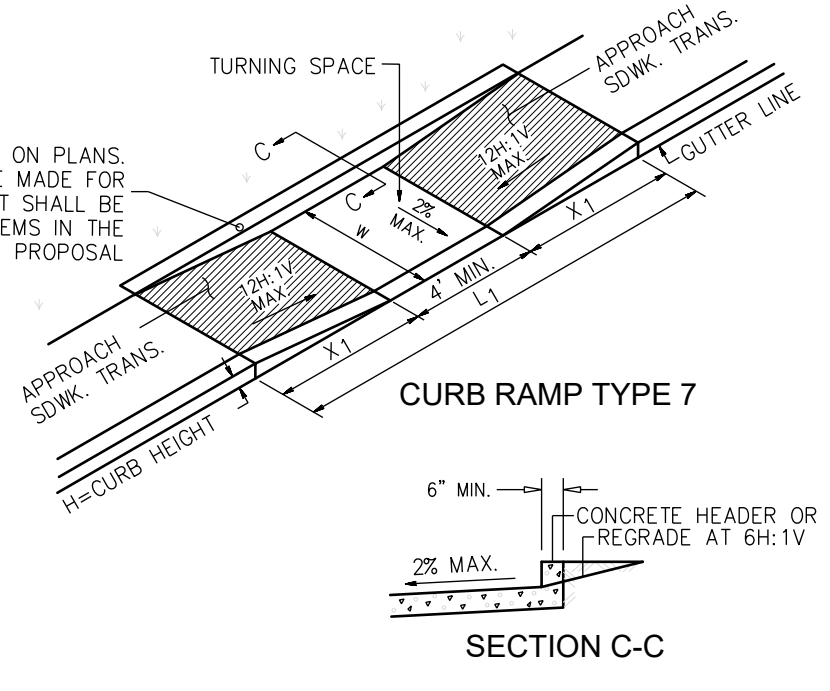


LOCATION OF CURB RAMP TYPES 1, 2, 3, 4 & 7 FOR CROSSING PARALLEL AND PERPENDICULAR TO HIGHWAY

H INCHES	X1 FEET	L1 FEET	W FEET
3	7.5	9.0	3
4	10.0	12.0	4
5	12.4	15.0	5
6	15.0	18.0	6
7	17.4	21.0	7
8	19.9	24.0	8
9	22.5	27.0	9

H INCHES	W FEET
3	3
4	4
5	5
6	6
7	7
8	8
9	9

W FEET	H INCHES	X1 FEET	L1 FEET
4 MIN. 6 MAX.	3	3	11
	4	4	13
	5	5	15
	6	6	17
	7	7	19
	8	8	21
	9	9	23



SECTION THROUGH CURB RAMPS 1 THROUGH 4

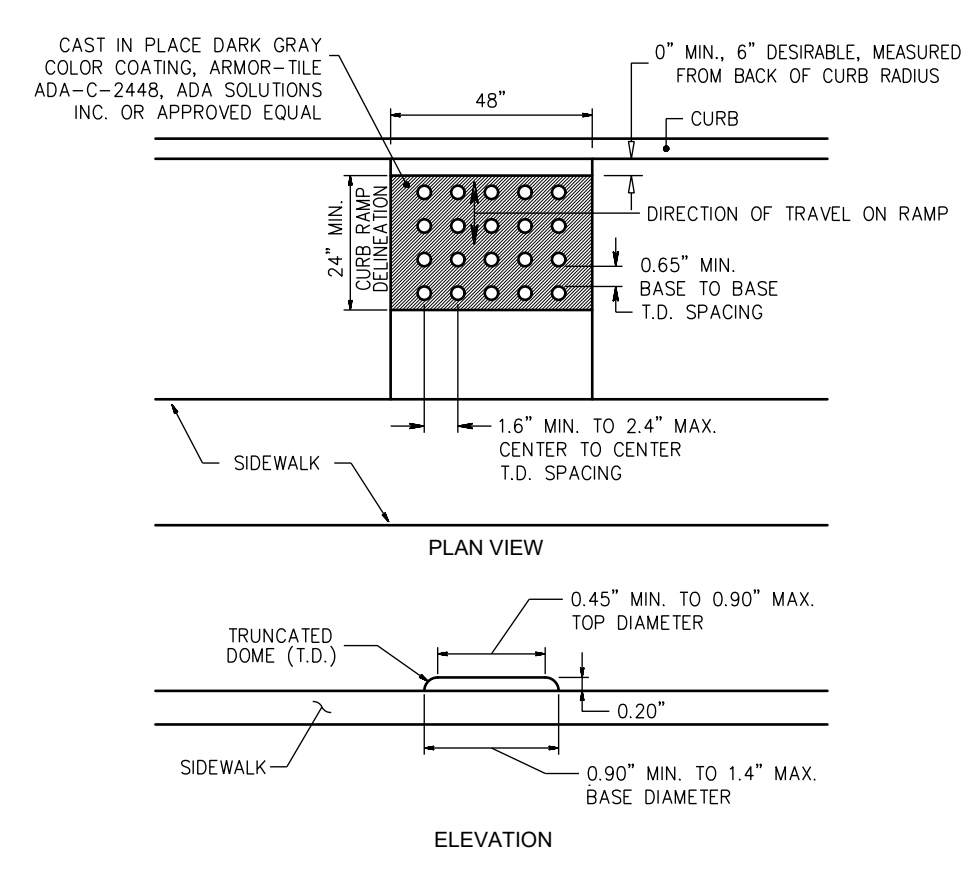
W FEET	H INCHES	X1 FEET	X2 FEET	L2 FEET
2.5	3	2.5	9	0.5
4	3.3	10.6	2.5	1.5
5	4.2	12.4	2.5	2.5
6	5.0	14.0	2.5	3.5
7	5.8	15.6	2.5	4.5
8	6.7	17.4	2.5	5.5
9	7.5	19.0	2.5	6.5
3.0	4	3.3	10.6	3.0
5	4.2	12.4	3.0	2
6	5.0	14.0	3.0	3
7	5.8	15.6	3.0	4
8	6.7	17.4	3.0	5
9	7.5	19.0	3.0	6
3.5	4	3.3	10.6	3.5
5	4.2	12.4	3.5	1.5
6	5.0	14.0	3.5	2.5
7	5.8	15.6	3.5	3.5
8	6.7	17.4	3.5	4.5
9	7.5	19.0	3.5	5.5
4.0	4	3	11	4
5	4.2	12.4	4.0	1
6	5.0	14.0	4.0	2
7	5.8	15.6	4.0	3
8	6.7	17.4	4.0	4
9	7.5	19.0	4.0	5

W FEET	H INCHES	X1 FEET	X2 FEET	L2 FEET
2.5	3	2.5	1.5	7
5	2.5	2.5	9	9
6	2.5	3.5	11	11
8	2.5	4.5	13	13
9	2.5	5.5	15	15
3.0	4	3	10	10
6	3.5	2.5	9	9
7	3.0	4	12	12
8	3.0	5	14	14
9	3.0	6	16	16
3.5	4	3.5	0.5	5
5	3.5	1.5	7	7
6	3.5	2.5	9	9
7	3.5	3.5	11	11
8	3.5	4.5	13	13
9	3.5	5.5	15	15
4.0	4	4	1	6
6	4.0	2	8	8
7	4.0	3	10	10
8	4.0	4	12	12
9	4.0	5	14	14

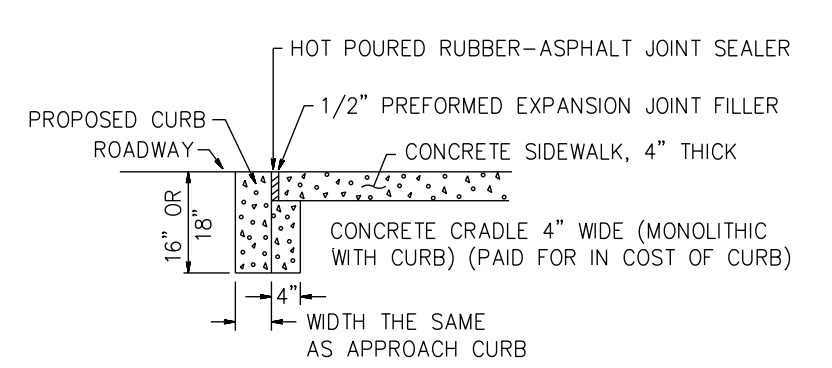
\* TYPE 3 RAMP IS NOT APPLICABLE, USE TYPE 1. \*\* TYPE 4 RAMP IS NOT APPLICABLE, USE TYPE 2.

- GENERAL NOTES:**
- KEEP TURNING SPACE, APPROACH SIDEWALK TRANSITIONS, AND CURB RAMP CLEAR OF OBSTRUCTIONS THAT PROTRUDE ABOVE THE SURFACE.
  - CURB (DROPPED CURB) GUTTERLINE TO BE FLUSH WITH ROADWAY PAVEMENT THE ENTIRE WIDTH OF THE RAMP (4 FEET MIN.) AT ALL CURB RAMPS.
  - 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 DRAMATICALLY IN AREA OF PROPOSED CURB RAMP.
  - 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 THROUGH 4.
  - THE PUBLIC SIDEWALK CURB RAMP, DETECTABLE WARNING SURFACE (SHADED AREA) SHALL BE SAFETY RED COLOR ON CONCRETE OR 70% COLOR CONTRAST FOR OTHER SURFACE SUCH AS BRICK.
  - CROSSWALKS AND STOP LINES MAY BE MARKED OR UNMARKED, SEE PLANS.
  - PREFERRED AND ALTERNATE TREATMENTS SHOULD NOT BE INTERMIXED WITHIN THE SAME INTERSECTION.
  - 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.
  - 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.
  - CURB RAMP TYPE 1 THROUGH 7 ARE NORMALLY PLACED ON THE RADIUS RETURN AT THE INTERSECTION AND ON A TANGENT SECTION AS DRAWN.
  - CONSTRUCT CURB RAMP TYPES 1, 2, 3, 4 & 7 PERPENDICULAR TO CURBLINE, AS SHOWN.

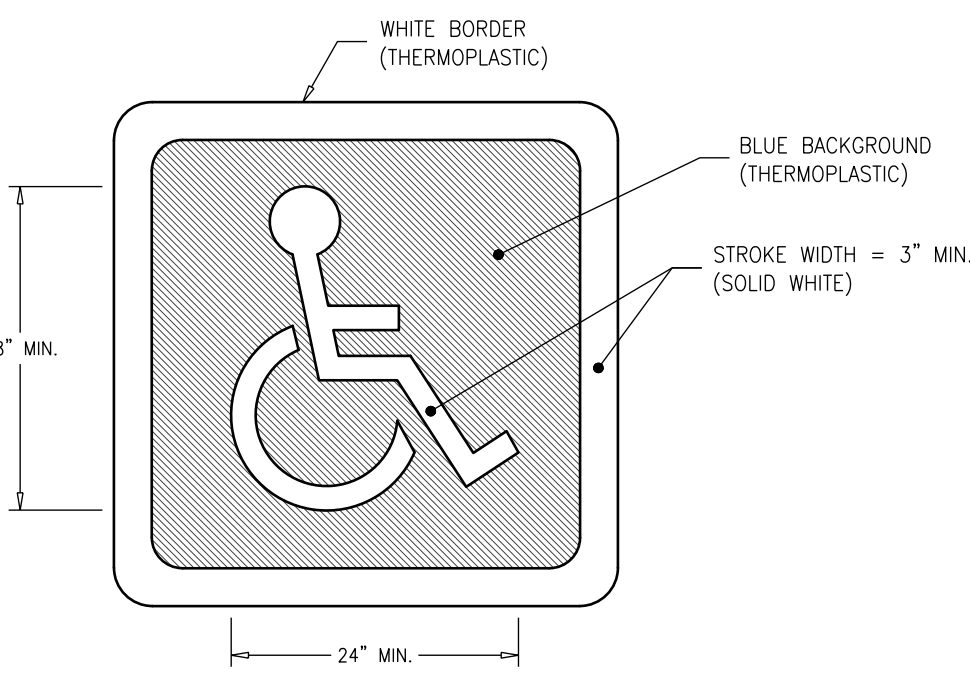
**PUBLIC SIDEWALK CURB RAMPS**  
N.T.S.



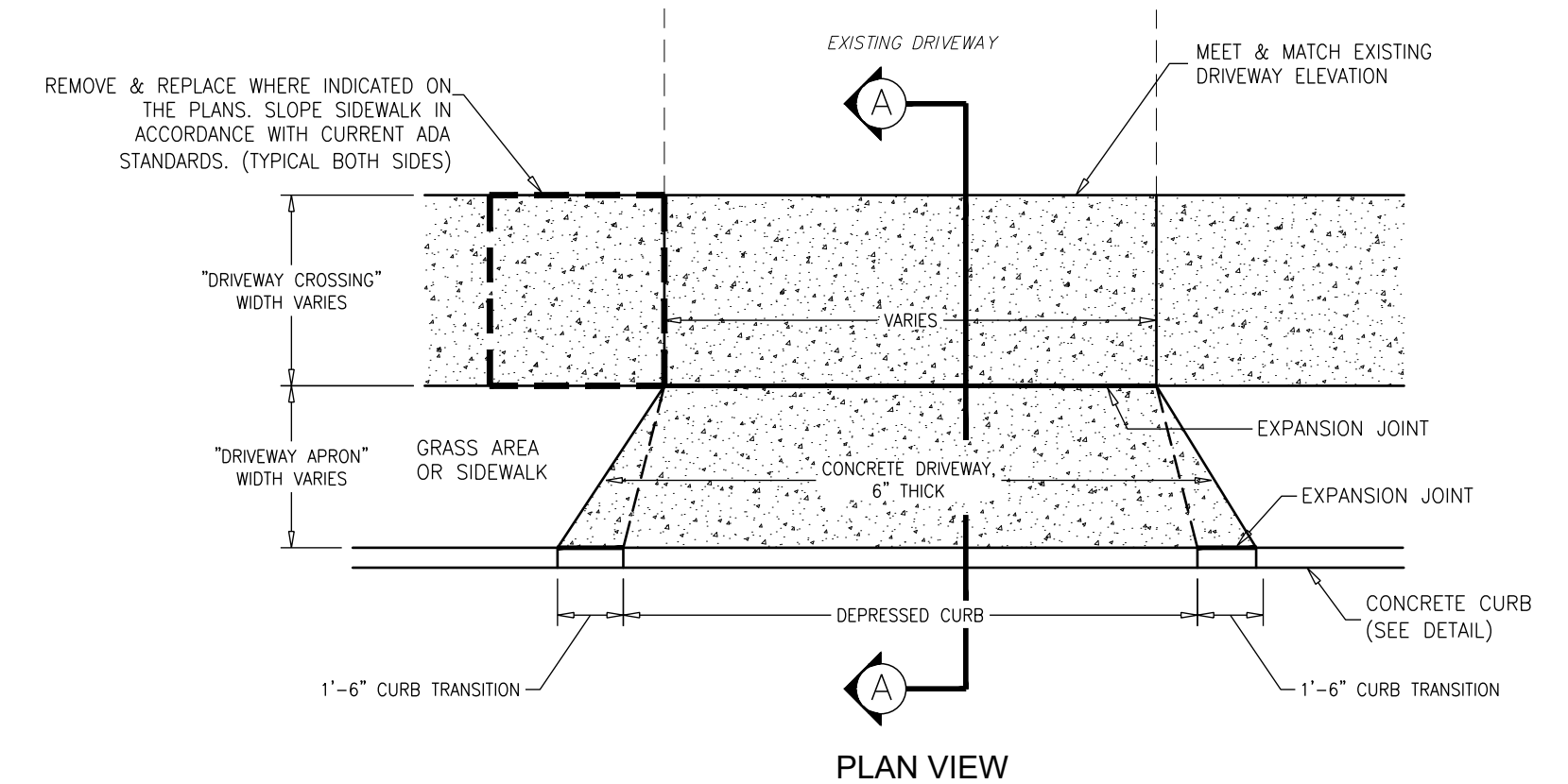
**DETECTABLE WARNING SURFACE**  
N.T.S.



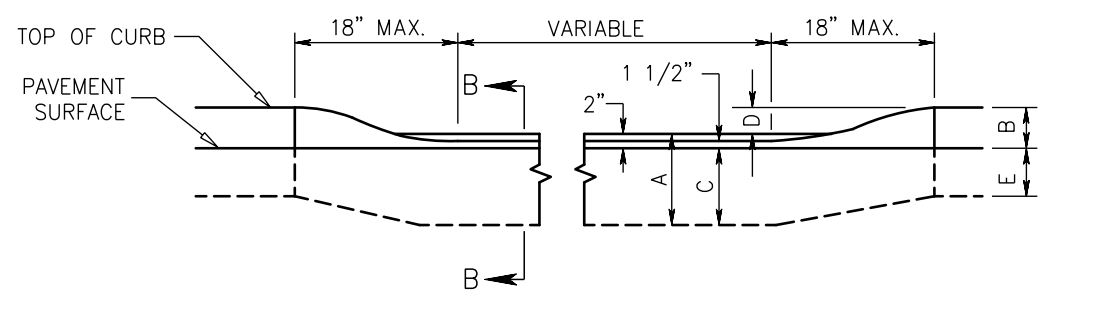
**DROPPED CURB AND CRADLE AT ALL PUBLIC SIDEWALK CURB RAMPS**  
N.T.S.



**ADA ACCESSIBLE PAVEMENT SYMBOL**  
N.T.S.

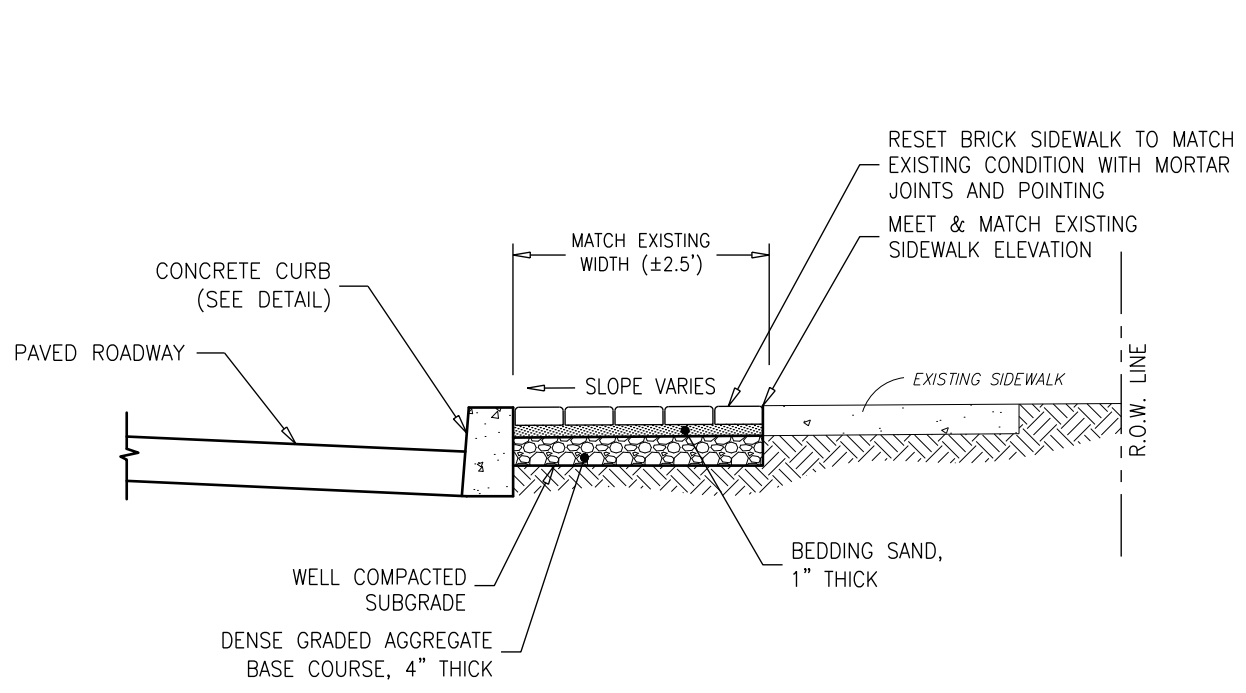


**CONCRETE DRIVEWAY APRON DETAIL**  
N.T.S.

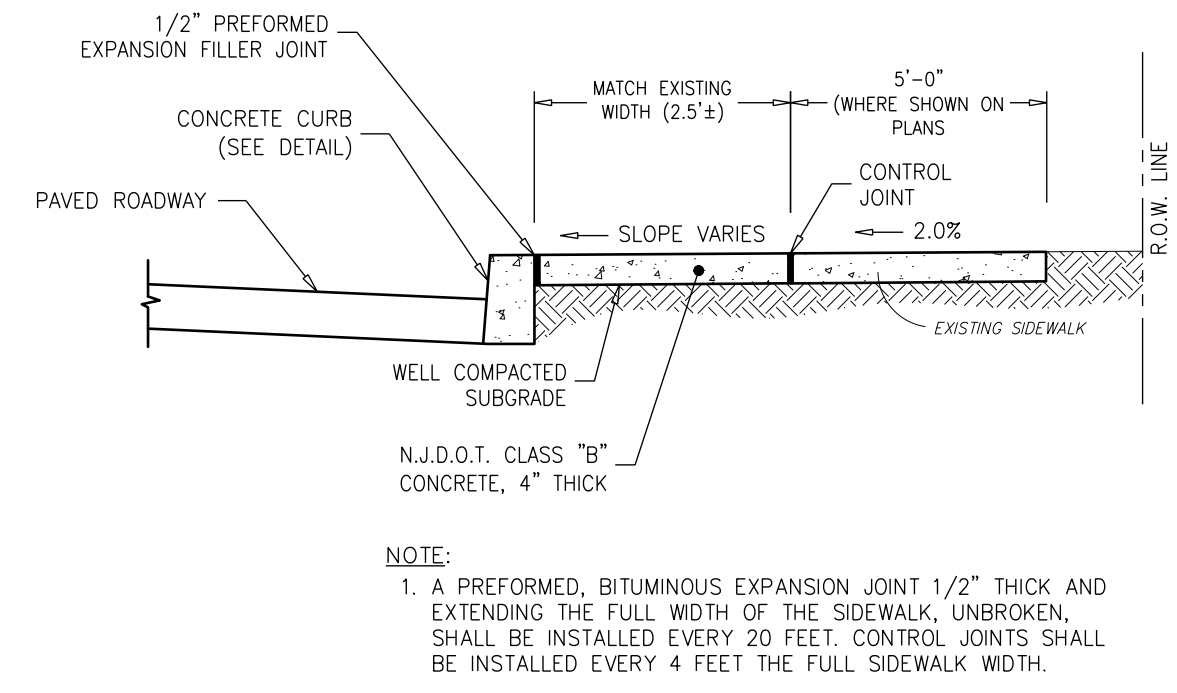


**METHOD OF DEPRESSED CURB AT DRIVEWAYS**  
N.T.S.

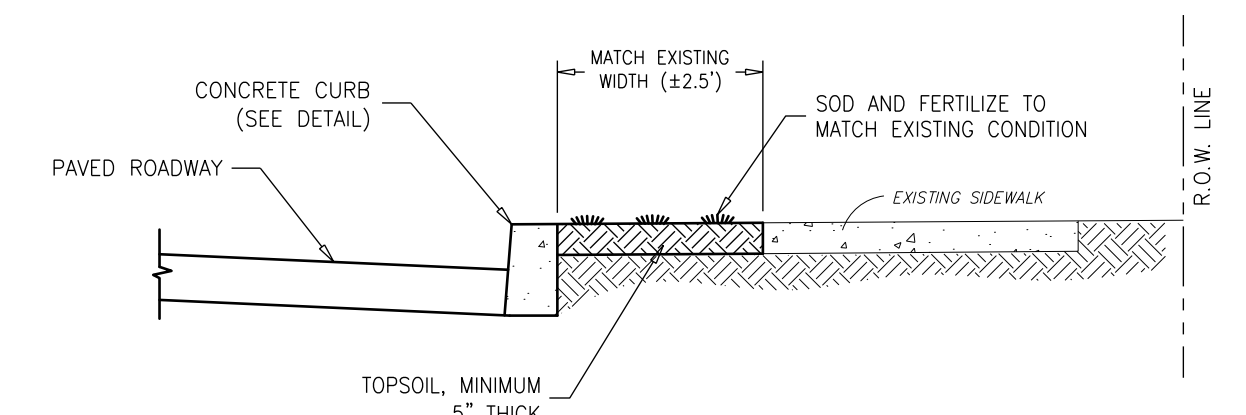
CURB SIZE	DIM. A	DIM. B	DIM. C	DIM. D	DIM. E
8" x 18"	18"	6"	16"	4"	12"
8" x 18"	18"	4"	16"	2"	14"



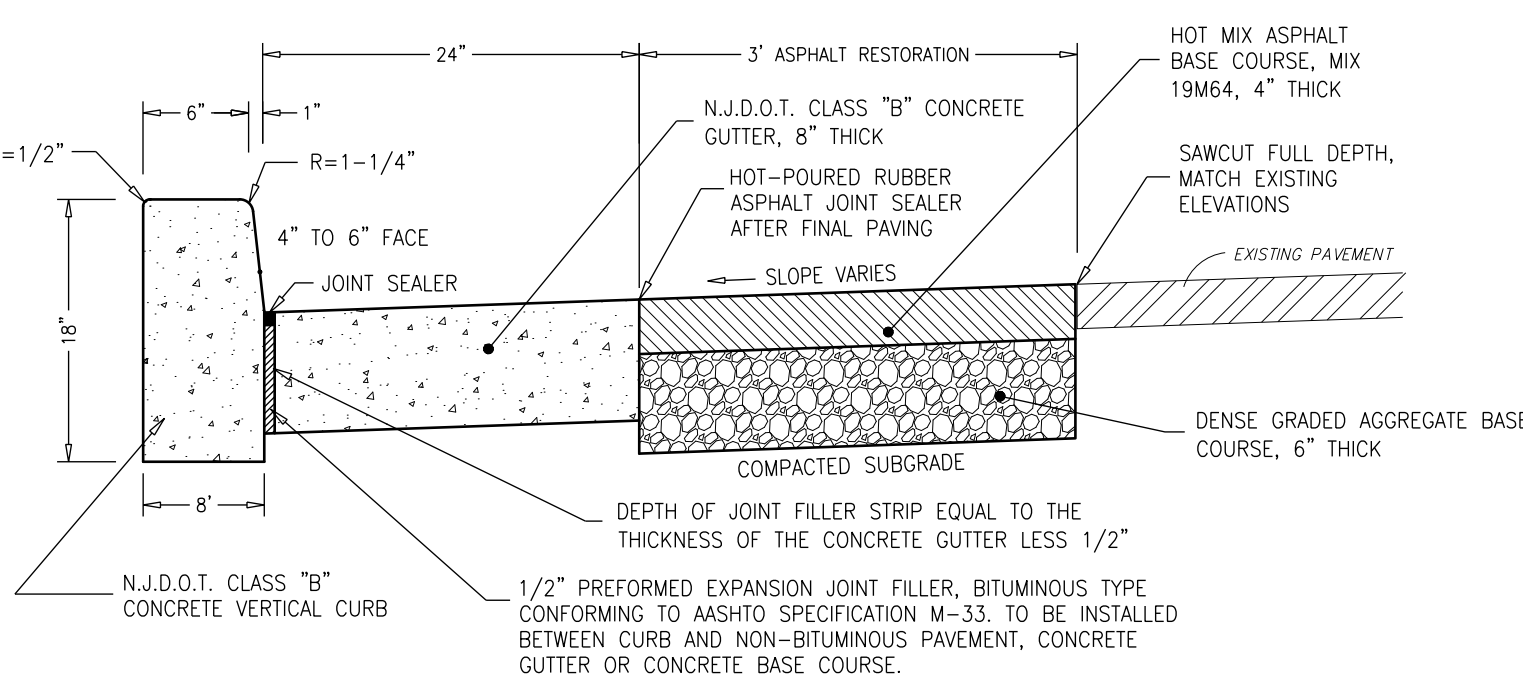
**RESET BRICK SIDEWALK DETAIL**  
N.T.S.



**CONCRETE SIDEWALK RESTORATION DETAIL**  
N.T.S.



**GRASS RESTORATION DETAIL**  
N.T.S.



**CONCRETE VERTICAL CURB, CONCRETE GUTTER AND PAVEMENT RESTORATION DETAIL**  
N.T.S.

NO.	DATE	APPR.	REVISION

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**CONSTRUCTION DETAILS**

**DeBlasio & Associates**  
ENGINEERS, SURVEYORS AND PLANNERS

4701 NEW JERSEY AVENUE  
WILDWOOD, NJ 08260  
PHONE (609) 854-3311  
FAX (609) 854-4323  
WWW.DEBLASIOASSOC.COM  
Certification of Authorization No. 24CA28284900

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

Design: CMS	Drawn: CMS	Check: MAD	Date: 08/2024
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MARC A. DEBLASIO, PE  
New Jersey License No. 41599

Scale: AS NOTED	App. No.: 03M-M-015	Sheet No.: 10	Total: 12
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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... 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... 3. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR LOUGH 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. STABILIZATION SPECIFICATIONS: 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"...

TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION

- 1. SITE PREPARATION A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDED 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. SEEDED 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 TONS/ACRE LBS./1000 SQ. FT. CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL 4 180 SANDY LOAM, LOAM, SILT LOAM 3 135 LOAMY SAND, SAND 2 90...

PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION

- 1. SITE PREPARATION A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDED 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. SEEDED 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 TONS/ACRE LBS./1000 SQ. FT. CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL 4 180 SANDY LOAM, LOAM, SILT LOAM 3 135 LOAMY SAND, SAND 2 90...

Table with 3 columns: SOIL TEXTURE, TONS/ACRE, LBS./1000 SQ. FT. for PERMANENT SEEDING MIXTURE (MOIST).

Table with 3 columns: COMMON NAME, BOTANICAL NAME, % for PERMANENT SEEDING MIXTURE (MOIST).

Table with 3 columns: COMMON NAME, BOTANICAL NAME, % for PERMANENT SEEDING MIXTURE (DRY).

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.

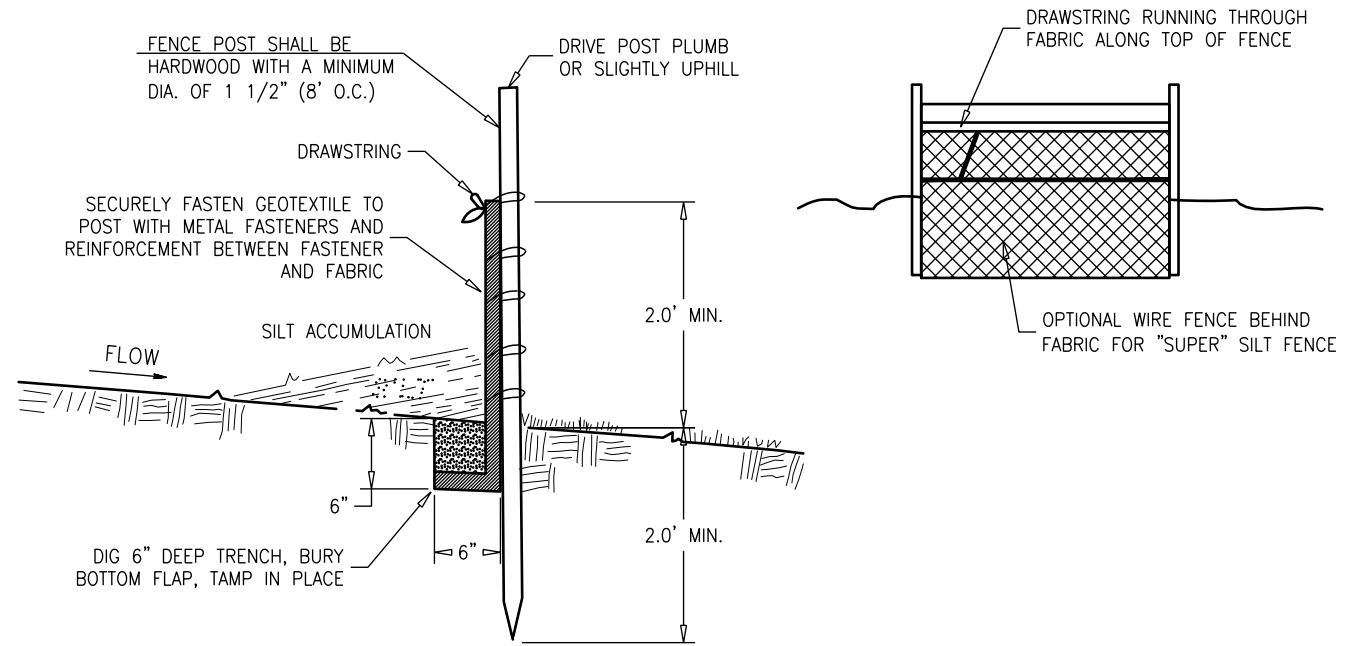
THE OPTIMAL SEEDING DATES FOR PERENNIAL RYEGRASS FOR CAPE-ATLANTIC REGION ARE 2/15 - 4/30 AND 8/15 - 10/30.

- SPECIAL NOTES 1. TEMPORARY STABILIZATION - ALL EXPOSED AREAS NOT TO BE CONSTRUCTED UPON WITHIN 14 DAYS SHOULD RECEIVE TEMPORARY STABILIZATION... 2. TEMPORARY STABILIZATION - ALL EXPOSED AREAS WHICH ARE TO BE PERMANENTLY VEGETATED SHOULD BE SEEDED WITHIN 7 DAYS OF FINAL GRADING...

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 (COND- ACTIVITY GREATER THAN 1.0 MILLIMHOUS PER CENTIMETER); OR WHERE TOPSOIL IS AVAILABLE ON SITE AND ASSURANCE OF IMPROVED VEGETATIVE GROWTH IS DESIRED.

- 1. MATERIALS A. TOPSOIL SHOULD BE FRABLE 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... 2. STRIPPING AND STOCKPILING A. FIELD EXPLORATION SHOULD BE MADE TO DETERMINE WHETHER QUANTITY AND/OR QUALITY OF SURFACE SOIL JUSTIFIES STRIPPING... 3. SITE PREPARATION A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDED PREPARATION, SEEDING, MULCH APPLICATION AND ANCHORING, AND MAINTENANCE...

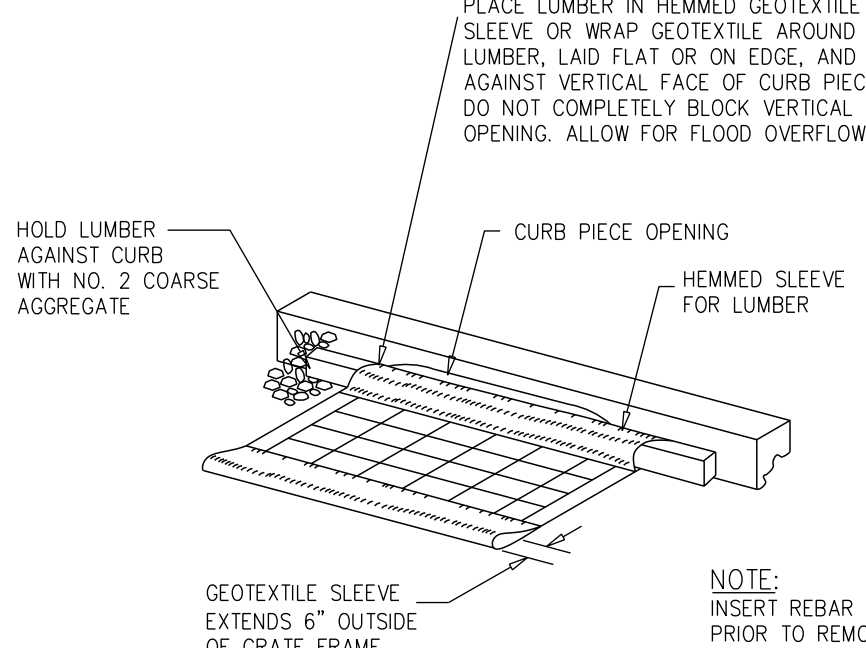


- NOTES: 1. EXCAVATE A 6"x6" TRENCH ALONG THE LOWER PERIMETER OF THE SITE. 2. UNROLL THE SILT FENCE GEOTEXTILE AND POSITION THE POLES AGAINST THE BACK(DOWNSTREAM) WALL OF THE TRENCH. 3. LAY THE TOE-IN FLAP OF THE FABRIC ONTO THE UNDISTURBED BOTTOM OF THE TRENCH, BACKFILL THE TRENCH AND TAMP THE SOIL.

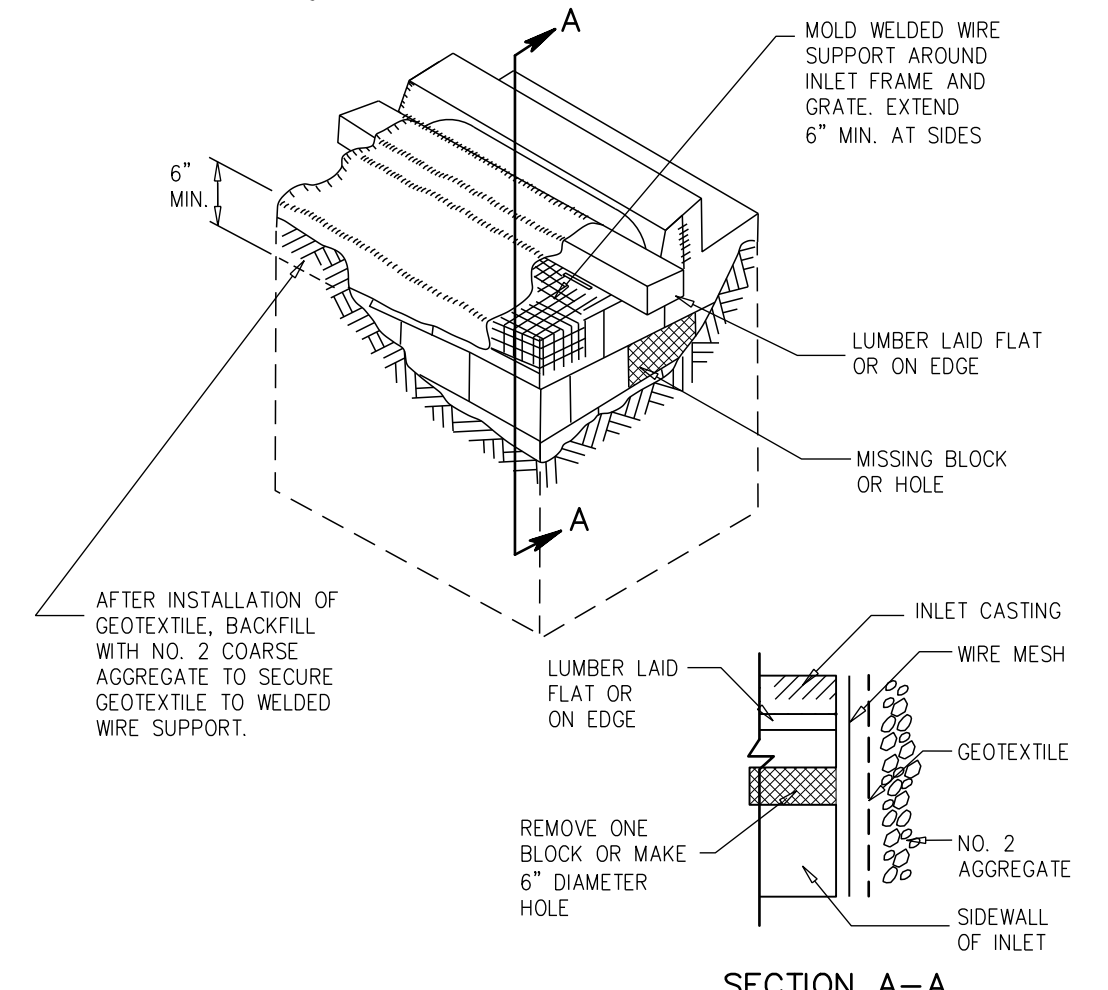
SILT FENCE DETAIL OR APPROVED EQUAL

DUST 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. MULCHES - REVIEW MULCHING NOTES ABOVE. B. VEGETATIVE COVER - REVIEW NOTES ON TEMPORARY COVER. C. SPRAY-ON ADHESIVES - ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS), KEEP TRAFFIC OFF THESE AREAS. D. MATERIAL WATER DILUTION TYPE OF NOZZLE APPLY GALLON/ACRE LATEX EMULSION 12.5:1 FINE SPRAY 235 RESIN IN WATER 4:1 FINE SPRAY 300 POLYACRYLAMIDE (PAM) - SPRAY ON 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. ACIDULATED SOY BEAN SOAP STICK NONE COARSE SPRAY 1200 E. TILLAGE - TO ROUGHEN SURFACE AND BRING CLOUDS TO THE SURFACE... F. SPRINKLING - SITE IS SPRINKLED UNTIL THE SURFACE IS WET. G. BARRIERS - SOLID BOARD FENCES, SNOW FENCES, BURGLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. H. STONE - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.



EXISTING INLET



SECTION A-A NEW CONSTRUCTION

INLET FILTERS, TYPE 1

N.T.S.

TEMPORARY SEEDING MIXTURE

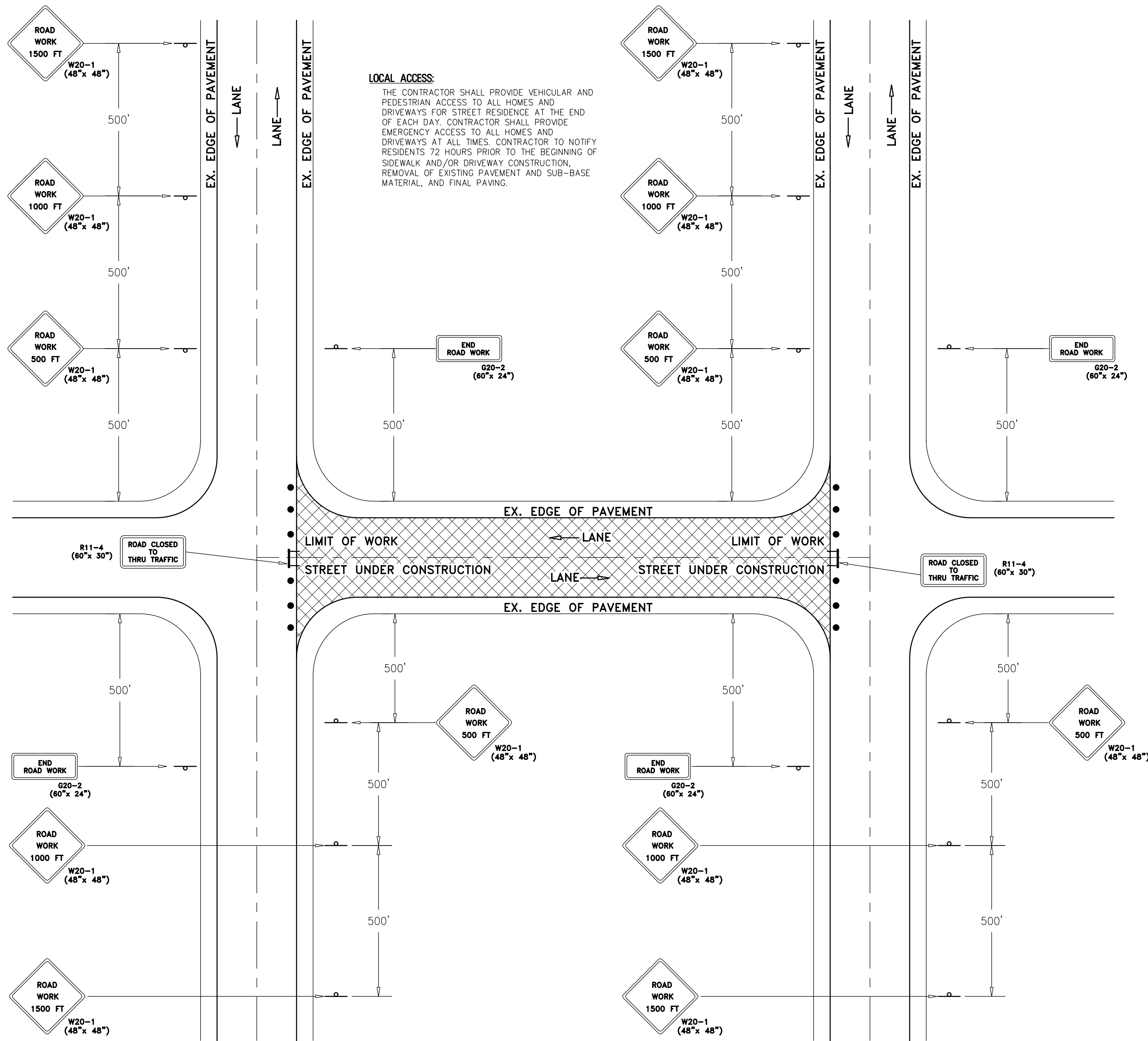
THIS SEEDING MIXTURE IS COMPOSED OF A SINGLE SPECIES WHICH GERMINATES QUICKLY IN ORDER TO REDUCE SOIL EROSION UNTIL A PERMANENT VEGETATIVE COVER CAN BE COVER ESTABLISHED. A MIXTURE OF EQUAL QUALITY MAY BE SUBSTITUTED IF APPROVED BY OUR OFFICE.

Table with 3 columns: COMMON NAME, BOTANICAL NAME, % for TEMPORARY SEEDING MIXTURE.

THE MINIMUM APPLICATION RATE FOR THIS SEEDING MIXTURE SHALL BE FOUR (4) POUNDS/1000 SQUARE FEET OR 160 POUNDS/ACRE.

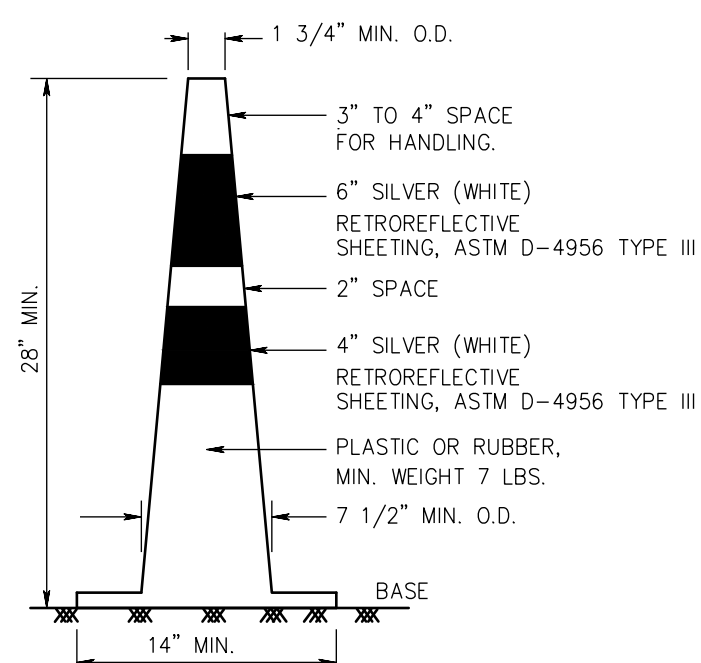
THE OPTIMAL SEEDING DATES FOR PERENNIAL RYEGRASS FOR CAPE-ATLANTIC REGION ARE 2/15 - 4/30 AND 8/15 - 10/30.

Professional stamp for DeBlasio & Associates, Engineers, Surveyors and Planners, 4701 New Jersey Avenue, Wildwood, NJ 08260. Includes project details for 'RECONSTRUCTION OF BEACH AVENUE CITY OF CAPE MAY CAPE MAY COUNTY, NEW JERSEY' and a signature block for Marc A. DeBlasio, PE.



**TYPICAL STREET TRAFFIC CONTROL PLAN**

N.T.S.

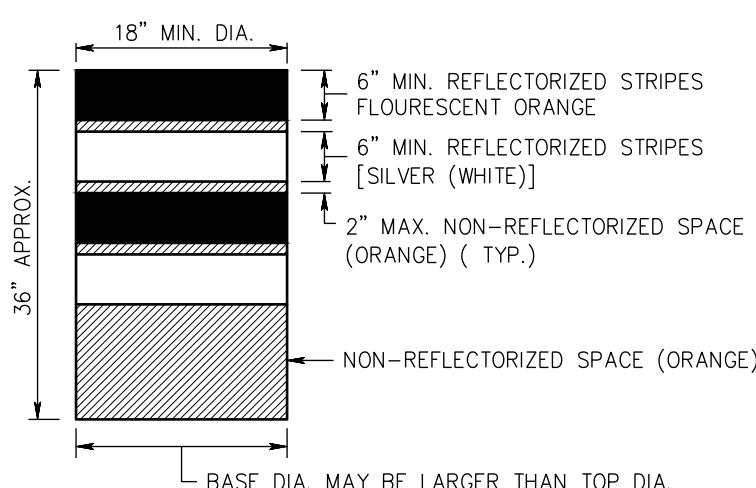


**NOTES:**  
TRAFFIC CONES MUST BE PREDOMINATELY ORANGE IN COLOR.  
BASES MAY BE OF BREAKAWAY BALLASTED TYPE.  
MINOR MANUFACTURER'S VARIATIONS MAY BE ACCEPTABLE UPON APPROVAL OF THE ENGINEER.

**TRAFFIC CONES**

N.T.S.

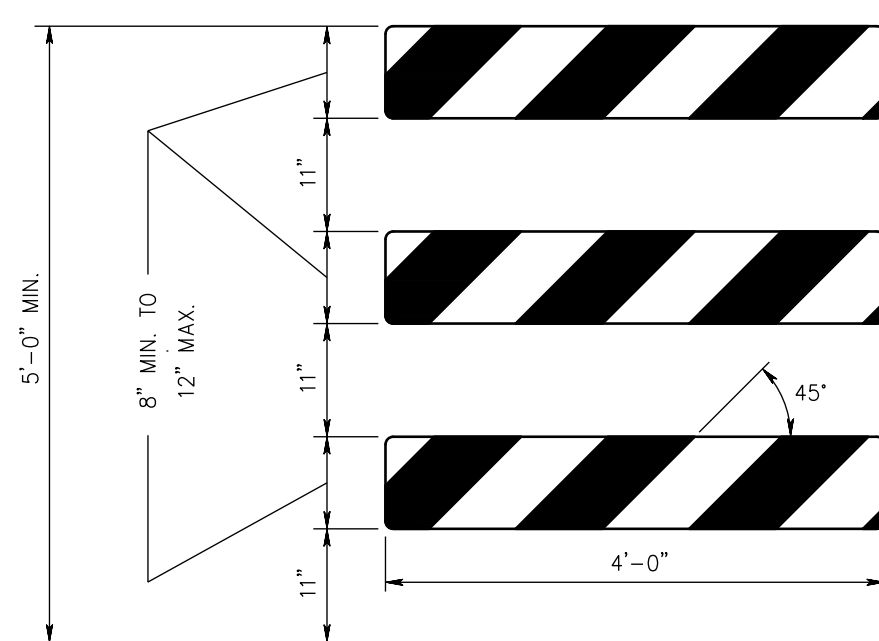
DRUMS SHALL BE MADE OF ORANGE PLASTIC WITH A MINIMUM OF FOUR ALTERNATE FLUORESCENT ORANGE AND SILVER (WHITE) RETROREFLECTIVE STRIPES. IF THERE ARE NON-REFLECTORIZED SPACES BETWEEN THE STRIPES, THEY SHALL BE NO MORE THAN 2" WIDE. ENSURE RETROREFLECTIVE SHEETING FOR STRIPES CONFORMS WITH ASTM D 4956 TYPE VII OR VII WITH S2 REQUIREMENTS.  
ENSURE THE TOP OF THE DRUM IS NOT OPEN. CONSTRUCT DRUMS TO INHIBIT ROLLING IF KNOCKED 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.



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.



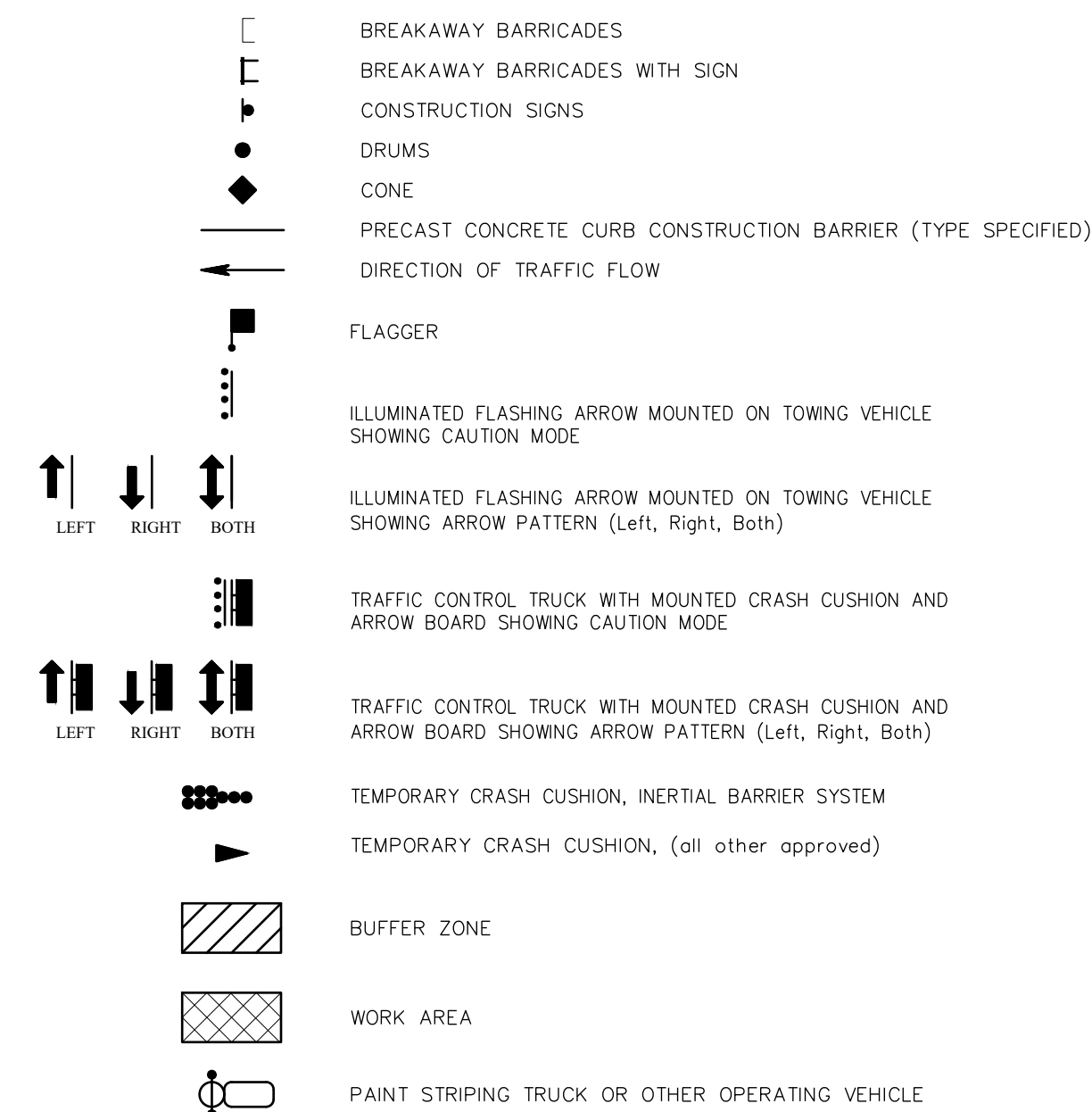
TYPE III BARRICADE - FRONT VIEW

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

**BREAKAWAY BARRICADES**

N.T.S.

**LEGEND**



**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.
- 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.
- PRIOR TO ANY ROAD CONSTRUCTION, TRAFFIC CONTROL SIGNS AND DEVICES SHALL BE IN PLACE.
- RAMP 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 AHEAD) AS A MINIMUM.
- 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 COVERED.
- 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.
- CONSTRUCTION SIGN W99-2 (GIVE US A BRAKE) SHALL BE LOCATED 200 FEET IN ADVANCE OF PROJECT LIMITS.
- 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.
- CONSTRUCTION SIGNS R11-4 (ROAD CLOSED TO THRU TRAFFIC) SHALL BE PLACED AT THE INTERSECTING STREETS WHICH ARE CLOSED TO TRAFFIC BECAUSE OF CONSTRUCTION.
- 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.
- 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.
- 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.
- 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.
- WHERE REQUIRED, THE CONTRACTOR SHALL MAKE PROVISIONS FOR MAINTAINING PEDESTRIAN CROSSING LOCATIONS AND TYPE AS DIRECTED BY THE ENGINEER.
- 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 PLANS.
- 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.
- 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.
- THE SPEED LIMIT, R2-1 (BLACK ON WHITE) SIGN SHALL BE LOCATED THROUGH WORK AREAS AS DIRECTED BY THE REGIONAL TRAFFIC ENGINEER.
- 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.
- TRAFFIC FINES DOUBLED IN WORK AREA R(N)J5-17(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.
- 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 RAMP 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.
- 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.
- CONES MAY BE SUBSTITUTED FOR DRUMS AND INSTALLED UPON THE APPROVAL OF THE ENGINEER.
- SEE SPECIFICATION SECTION 3201.30 TRAFFIC CONTROL.

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	
25	10.5:1	105 115 125	25	50	
30	15:1	150 165 180	30	60	
35	20.5:1	205 225 245	35	70	
40	27:1	270 300 325	40	80	
45	45:1	450 495 540	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.

REGULATORY APPROACH SPEED OF TRAFFIC (MILES/HOUR)	RECOMMENDED SIGHT DISTANCE TO BEGINNING OF CHANNELIZING TAPERS			
	DESIRABLE		MINIMUM	
	RURAL FEET	URBAN FEET	RURAL FEET	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	

- NOTE:**
- AVOIDANCE MANEUVER IS FOR A SPEED, PATH, AND/OR DIRECTION CHANGE PRIOR TO THE BEGINNING OF CHANNELIZING TAPERS.
  - RECOMMENDED DISTANCES BETWEEN TWO SEPARATE LANE CLOSURES SHALL BE DOUBLE THE VALUES SHOWN ABOVE.
  - RURAL AND URBAN ROAD DESIGNATIONS SHALL BE AS DEFINED IN THE NDOT STATE HIGHWAY STRAIGHT LINE DIAGRAMS.
  - 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.
  - TAPERS SHALL BE LOCATED TO MAXIMIZE THE VISIBILITY OF THEIR TOTAL LENGTH.

NO.	DATE	APPR.	REVISION

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**TRAFFIC CONTROL PLAN & DETAILS**

**DeBlasio & Associates**  
ENGINEERS, SURVEYORS AND PLANNERS

4701 NEW JERSEY AVENUE  
WILDWOOD, NJ 08260  
PHONE (609) 854-3311  
FAX (609) 854-4323  
WWW.DEBLASIOASSOC.COM  
Certification of Authorization No. 24CA28284900

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

Design:	Drawn:	Check:	Date:
CMS	CMS	MAD	08/2024

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

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