

CONSTRUCTION PLANS

ROADWAY IMPROVEMENTS TO PELICAN DRIVE FROM ROAD 'B' TO THE CUL-DE-SAC

Soil Erosion Notes:

(NO SPECIFIC PAYMENT WILL BE MADE FOR SOIL EROSION AND SEDIMENT CONTROL. THE PRICE FOR ALL SOIL EROSION AND SEDIMENT CONTROL SHALL BE INCLUDED IN THE PRICE OF VARIOUS ITEMS IN THE PROPOSAL.)

- Contractor shall install all soil erosion and sediment control measures necessary of site,i.e. sediment barrier for soil retention, inlet protection structures, dust control, etc. All soil erosion and sediment control measures shall be in compliance with Chapter 3 and 4 of the Standards for Soil Erosion and Sediment Control in New Jersey adopted in July 1999 and as amended.
- All soil erosion and sediment control measures shall be installed before all other work on the site, at the locations as noted on the construction plans.
- All erosion and sediment control practices shall be left in place until construction is complete or the area is stabilized in accordance with the Soil Conservation District recommendations and to the County Engineer's satisfaction.
- Stabilization with Mulch Only – When seasons and other conditions are not suitable for growing an erosion-resistant cover (November 1st through April 1st, and May 15th through August 15th) all exposed areas will be stabilized with mulch, salt hay or straw and will be applied at a rate of 80%/2,000 S.F. and anchored immediately after placement to minimize loss by wind or water. Stabilization with mulch will comply with Section 3.31 of said Standards, including details of anchoring mulch.
- Permanent vegetation cover– After final grading is completed a permanent vegetative cover will be used to stabilize the soil consisting of the following in the areas designated on the construction plans:
 - Sodding placed in accordance with Sections 806, 810, 813 & 909 of the N.J.D.O.T. Standard Specifications with a 1–2–2 ratio fertilizer, applied at a rate necessary to yield 50 pounds of nitrogen per acre.
 - Temporary Vegetation Cover – Temporarily stabilize the soil and reduce damage from wind and water erosion until permanent stabilization is accomplished. Apply limestone and fertilizer according to soil test recommendations. Fertilizer may be applied at the rate of 500 lbs per acre or 11 lbs. per 1,000 S.F. of 10–20–10 or equivalent. Apply limestone (equivalent to 50% calcium plus magnesium oxides) as follows: 2 tons per acre to 90 lbs. per S.F. Work lime and fertilizer into the soil to a depth of 4" with a disc, spring tooth harrow, or other suitable tool. Inspect seedbed just before seeding. If the soil is compacted the area must be retiled.
 - Soils high in sulfides or having a pH of 4 or less should be mulched only, see Standards p. 3.3.1. For temporary seeding, see recommendations in Table 3.1.1
 - Mulching is required on all seeding. Mulch materials should be unrotten small grain straw, hay free of seeds or salt hay to be applied at the rate of 1–1/2 – 2 tons per acre (70 to 90 lbs. per 1,000 S.F.), 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. Spread uniformly by hand or mechanically so that approximately 1,000 S.F. sections and distribute 70 to 90 lbs. within each section.
- Dust Control– The contractor shall prevent movement and/or blowing of dust from exposed soil surface. This requirement is to reduce damage, health hazards and improve traffic safety in accordance with section 4.10.1 of the standards for Soil Erosion and Sediment Control and section 107.28 of the N.J.D.O.T. Standard Specifications. Methods for dust control shall consist of mulches, spray-on adhesives, calcium chloride, sprinkling with water, street sweeping or other methods approved by the Engineer and/or Soil Conservation District. The contractor shall clean the roadway as needed and directed by the engineer and/or the Soil Conservation District. In conjunction with cleaning, the contractor shall be required to sprinkle areas with water or another approved method shall be performed to keep all areas damp and dust free.
- All soil erosion and sediment control practices to be installed prior to any major soil disturbances, or in their proper sequence, and maintained until permanent protection is established.
- Any disturbed area that will be left exposed more than thirty (30) days and not subject to construction traffic, will immediately receive a temporary seeding. If the season prevents the establishment of a temporary cover, the disturbed area will be mulched with straw, or equivalent material, at a rate of two (2) tons per acre, according to State Standards.
- Permanent vegetation to be seeded or hydroseeded on all exposed areas within two (2) days after final grading. Mulch will be used for protection until seeding is established.
- All work to be done in accordance with the State Standards for Soil Erosion and Sediment Control in New Jersey.
- A subbase course will be applied immediately following rough grading and installation of improvements in order to stabilize streets, roads, driveways and parking areas. In areas where no utilities are present, the subbase shall be installed within fifteen (15) days of preliminary grading.
- Immediately following initial disturbance or rough grading all critical areas subject to erosion (i.e.: steep slopes, roadway embankments) will receive a temporary seeding in combination with straw mulch or a suitable equivalent, at a rate of two (2) tons per acre, according to State Standards.
- Any steep slopes receiving pipeline installation will be back-filled and stabilized daily, as the installation proceeds, (i.e.: slopes greater than 3:1).
- The contractor shall utilize the roadways as a construction entrance. The existing roadway shall be cleaned as needed & directed by the Camden County Soil Conservation District and the Engineer.
- In accordance with the Standards for Permanent Vegetative Cover for Soil Stabilization, any soil having a pH of 4 or less or containing iron sulfides shall be covered with a minimum of 12" of soil having a pH of 5 or more prior to seedbed preparation.
- The Camden County Soil Conservation District shall be notified seventy-two (72) hours in advance of any land disturbing activity
- At the time when the site preparation for permanent vegetative stabilization is going to be accomplished, any soil that will not

in the BOROUGH OF AUDUBON PARK CAMDEN COUNTY, NEW JERSEY

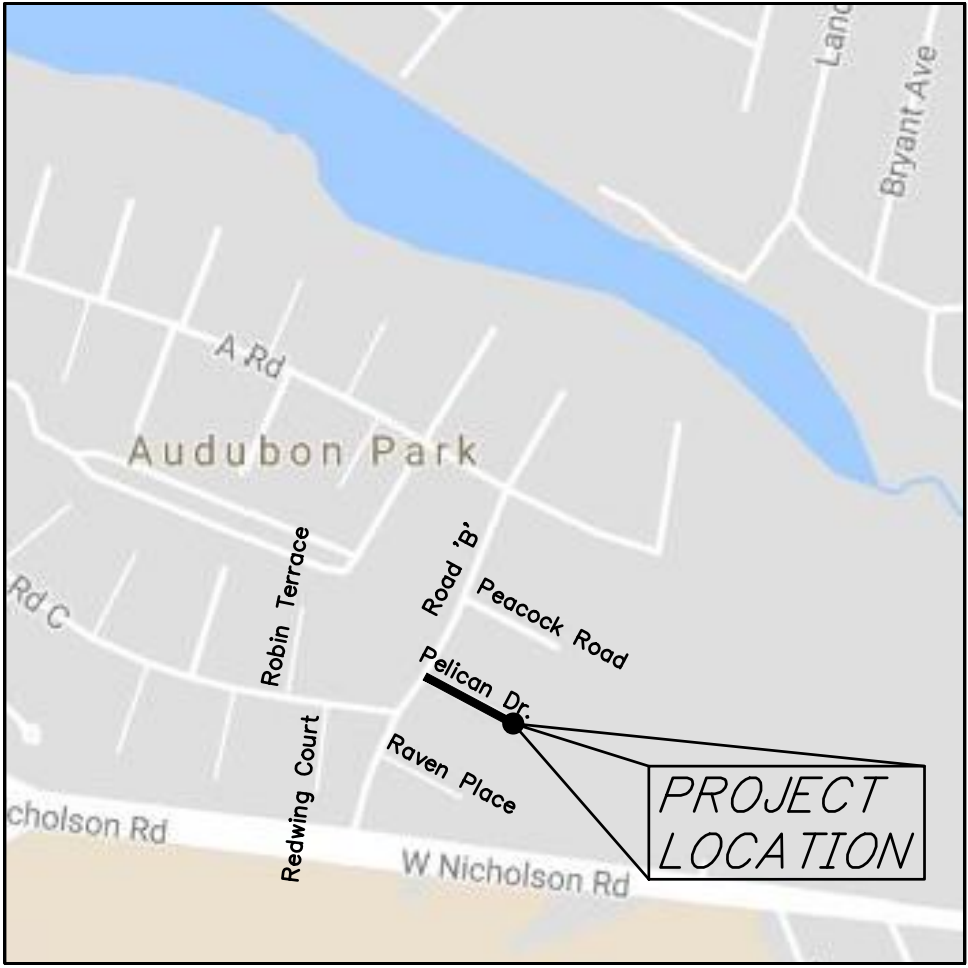
(KEI#40-40AP0521)

(PARTIALLY FUNDED THROUGH THE N.J.D.O.T. MUNICIPAL AID PROGRAM, FY2022)

PROJECT LENGTH 315 L.F. ±/ 0.059 MILES ±

General Construction Notes:

- All clearing items (trees, brush, stumps, concrete, etc.) shall be removed from the project and disposed of at a lawful disposal site to be furnished by the Contractor, at his expense.
- The Contractor shall procure all required permits, licenses and inspections. Contractor shall be responsible for all charges and fees as well as, give notices necessary for all incidentals for project. Soil Conservation Permits shall be obtained by the Municipality at no cost to the Contractor.
- All construction debris (asphalt, concrete, etc.) must be removed from the project site prior to the end of each day to eliminate any potential hazards. There will be no specific payment for this item, cost to be included in the price for various items, in the Proposal.
- All demolition/ removal items (concrete, asphalt, etc.) shall be removed from the project and disposed of at a lawful disposal site, provided by the Contractor, at his expense.
- Excess excavated materials shall be delivered to a lawful site location, provided by the Contractor at his expense.
- The quantities of all asphalt or concrete, which is to be recycled, must be reported to the Municipality and County.
- All areas disturbed/damaged by the Contractor, shall be returned to its original condition or better, by the Contractor, at his expense.
- The location of all existing utility lines, mains, services, appurtenances must be verified by the Contractor prior to the commencement of construction. The Contractor shall perform test pits in the presence of the Construction Engineer. The Contractor shall be responsible for the repair of any damage caused by his operations. He shall notify the respective utility company for location markout prior to any excavation and the performance of the above mentioned test pits.
- The Contractor is required to perform the proper notification of New Jersey One – Call Center (formerly the Garden State Underground Plant Location Service) prior to excavation for the purpose of identifying the location of underground facilities. This requirement is in accordance with the Underground Facilities Protection Act (P.L. 1994 c. 118). Any and all utilities not subscribing to the New Jersey One – Call Center shall be contacted individually. No work shall commence without proper notifications and verification of all markouts being performed.
- All Utility Contractors shall procure all required permits, licenses and inspections, pay all charges and give notices necessary for all incidentals to the due and lawful prosecution of the project.
- The Contractor shall be responsible for properly backfilling and compacting all trenches. No trenches shall be left open after construction hours for the day. All construction areas are to be kept in a condition that allows for safe movement of all vehicular and pedestrian traffic.
- All areas adjacent to newly constructed concrete curbing, sidewalk, etc., shall be backfilled to finished grade prior to the end of each day to eliminate any potential hazards. There will be no specific payment for this item, cost to be included in the price for various items in the Proposal.
- In accordance with the "Maintenance and Protection of Pedestrian and Vehicular Traffic" specification, the Contractor shall maintain "two (2) lanes of traffic, a minimum of 10 feet wide each, during all other hours." The Contractor shall provide the Engineer with a Staging Plan with the proper traffic control measures to protect both pedestrian and vehicular traffic, during all other hours. The Staging Plan shall be submitted to the Engineer and Chief of Police at the Preconstruction Meeting.
- All areas of disturbance shall be graded so as to eliminate any mounds and/or depressions prior to the end of each day to eliminate any potential hazards. There will be no specific payment for this item, cost to be included in the price for various items, in the Proposal.
- Barricades, lighting devices and other traffic control devices shall be placed in accordance with and shall conform to Section 110, New Jersey Department of Transportation Traffic Control Standard Specifications for Road and Bridge Construction, Part 6 of the M.U.T.C.D. and Work Zone Traffic Control (US Department of Transportation).
- Traffic/ pedestrian control devices and equipment shall be placed in accordance with all applicable Federal, State and Municipal regulations.
- All concrete curb and sidewalk designated for removal, shall be taken from the nearest joint, as necessary, to install proposed improvements.
- Where no joints exist on concrete drives or sidewalk, the edge shall be sawcut along straight lines before excavation or paving.
- Pavement shall be sawcut vertically, along straight lines, before excavating. Where new pavement meets existing pavement the joint shall be sealed with an approved joint sealer. There will be no specific payment for this item, joint sealer. The cost shall be included in the price for various items, in the Proposal.
- The Contractor must request grade stakes at least ten (10) days prior to the start of construction. Failure to provide proper notice may result in construction delays, with no compensation for construction delays.
- The Contractor shall not be permitted to work on Saturdays, Sundays or holidays. Should the Contractor obtain permission from the Municipality to do so, he shall be required to pay the Engineer for the Inspector's overtime. The hours of operation shall be from 7:00 a.m. to 4:00 p.m.
- Inspections or failures to inspect any materials or workmanship by Municipal Officials shall in no way relieve the contractor of his responsibilities to perform the work in accordance with applicable plans, specifications and laws.
- All concrete shall be N.J.D.O.T. Class 'B'.
- All signs which are removed during construction shall be reset either temporarily or permanently prior to the end of each day. There will be no specific payment for this item, cost to be included in the price of various items in the Proposal.
- The Contractor must utilize a trench box where necessary, in accordance with the U.S. Department of Labor, Occupational Safety and Health Administration, 1990, revised (29CFR Part 1926).
- Temporary line striping shall be provided in order to maintain traffic flow, safety and convenient passage of traffic through project. A minimum of a 10' wide lane in each direction shall be provided during construction (NO SPECIFIC PAYMENT) OUTGOING OR TRAFFIC SHALL NOT BE PERMITTED UNLESS APPROVED BY THE CHIEF-OF-POLICE. Should Police Traffic Directors be required, their services shall be paid for by the Municipality at no cost to the Contractor.
- The Contractor shall be required to coordinate his work with any and all utility companies in order to eliminate any conflicts and/or delays.
- The General Contractor is Designated as the "Responsible Person in Charge of Construction" and the site supervisor responsible for ensuring the site safety during the course of site improvements pursuant to N.J.A.C. 5: 23–2.21 (c) and (d) of the N.J. Uniform Construction Code.
- The Contractor shall comply with the Public Works Contractor Registration Act (P.L. 1999, c. 238 N.J.S.A. 34:11 – 56.48 etseq.) & New Jersey Business Registration Requirements of Public Contractors (N.J.S.A. 40A:11–23.2).
- The Contractor shall provide 2 copies of submittals two (2) weeks prior to the commencement of construction for all items for review by the Engineer.
- The Contractor shall video record, with audio description, the entire project limits to document the site conditions and provide two (2) CD or DVD copies to the Engineer.
- The Contractor shall not be permitted to deny access to or enter onto any residential property without the written permission of the property owner. The Contractor shall take all measures to perform the construction to maintain access to the properties and to cause minimal inconvenience.
- Failure of the Contractor to follow the directions of the Engineer and/or his representatives may result in a "STOP WORK" order. Should a "STOP WORK" order be issued, the Contractor shall incur all expenses to secure the job site and remediation costs when authorized by the Engineer to commence.



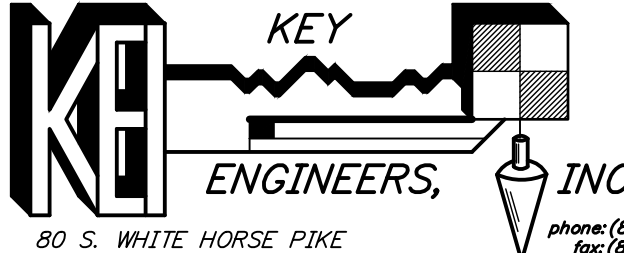
Key Map
SCALE 1 INCH = 500 FEET
TAKEN FROM GOOGLE MAPS

Utility Companies:

ALL:	Audubon Mutual Housing Corporation 20 Road C Audubon Park, NJ 08106 ATTN: Mr. Ken Whalen, Maintenance Supervisor
Water:	New Jersey American Water Company 204 Carriage Lane Delran, NJ 08075
Sewer:	Camden County MUA 1645 Ferry Avenue Camden, NJ 08104
Gas:	P.S.E.G. Services Corporation Gas Distribution Department 535 Nicholson Road Audubon, NJ 08106
Electric:	P.S.E.G. Services Corporation Construction Inquiry Center 410 Route 130 South Bordentown, NJ 08505
Cable TV:	Comcast Cable Communications, Inc. 1250 Haddonfield-Berlin Road Post Office Box 5029 Cherry Hill NJ 08034
Telephone:	Verizon 10 Tansboro Road Berlin NJ 08009

Sheet List Table

Sheet Number	Sheet Title
1	Cover Sheet
2	Construction Plan and Profile
3	Intersection Grading Plan
4	Cul-De-Sac Grading Plan
5	Details

REV.	DATE:	DESCRIPTION	DRWN.	CHKD.
Cover Sheet				
Roadway Improvements to Pelican Drive from Road 'B' to the Cul-De-Sac				
Borough of Audubon Park Camden County, New Jersey				
DATE: 02/06/23	DRAWN BY: SH / T.H.	CHKD. BY:	SCALE: AS NOTED	
PROJECT No. 40-40AP0521		FIELD BOOK/PAGE:		SHEET No. 1 OF 5
GREGORY BLASE FUSCO PROFESSIONAL ENGINEER NJPE No. 32853 PA.PE No. 036608-E NJ PROFESSIONAL PLANNER No. 4076				
 KEY ENGINEERS, INC. 80 S. WHITE HORSE PIKE BERLIN, NEW JERSEY 08009-2399 phone: (856) 767-6111 fax: (856) 753-1091 www.keyengineers.com CERTIFICATE OF AUTHORIZATION #24GA28041300			DATE _____	

CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE DEPARTMENT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2019 EDITION, WHICH IS INCORPORATED HEREIN BY REFERENCE, AS AMENDED AND SUPPLEMENTED, AND THE DEPARTMENT'S SUPPLEMENTARY SPECIFICATIONS FOR STATE AID PROJECTS, 2019 EDITION, WHICH IS INCORPORATED HEREIN BY REFERENCE, AS AMENDED AND SUPPLEMENTED. STANDARD CONSTRUCTION DETAILS SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE DEPARTMENT OF TRANSPORTATION "STANDARD ROADWAY CONSTRUCTION/ TRAFFIC CONTROL/ BRIDGE CONSTRUCTION DETAILS" BOOKLET DATED 2016 AND "ELECTRICAL BUREAU STANDARD DETAILS, 2007" AND ALL BASELINE DOCUMENT CHANGES MADE TO THESE CONSTRUCTION DETAILS, SHALL GOVERN, EXCEPT FOR THOSE DETAILS CONTAINED HEREIN. PARTIALLY FUNDED THROUGH NEW JERSEY DEPARTMENT OF TRANSPORTATION MUNICIPAL AID PROGRAM, FY2022

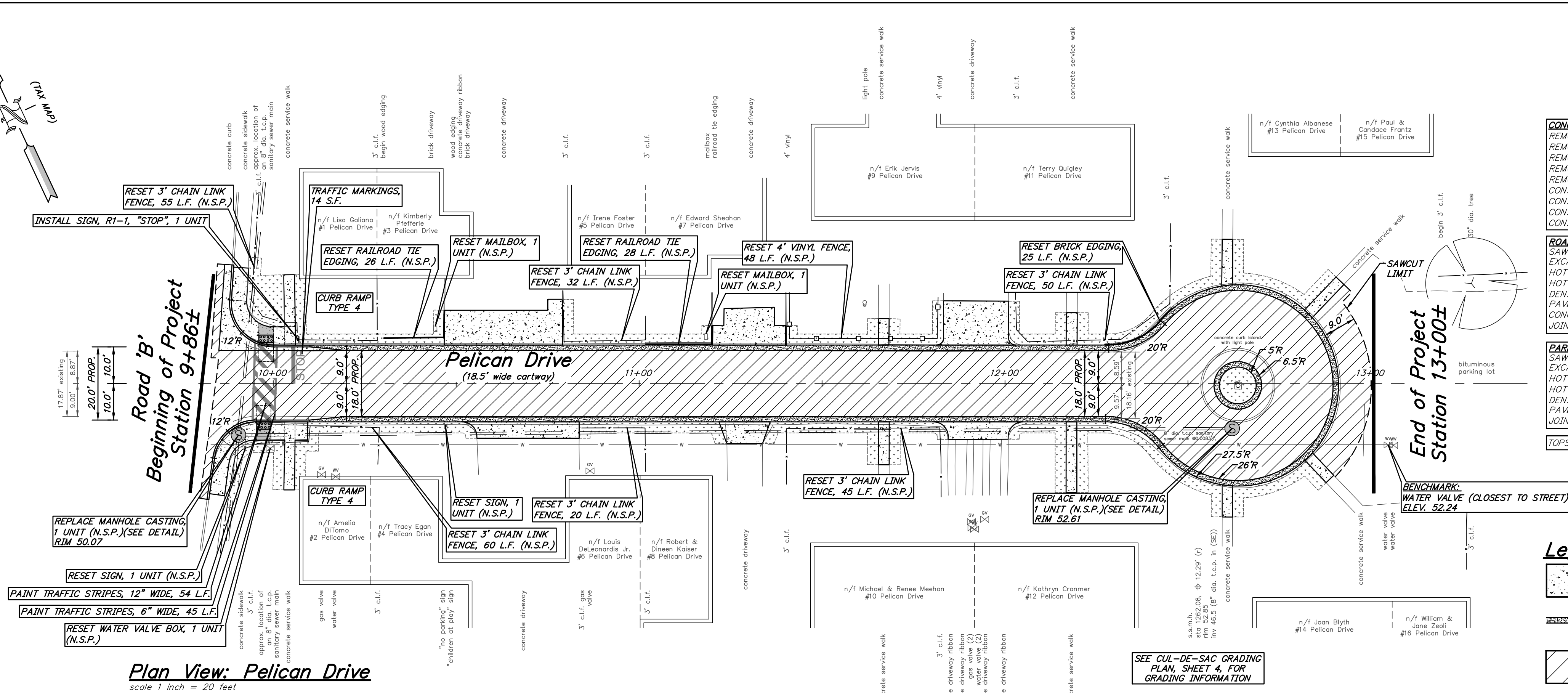
REPRODUCTION, ALTERATION AND AMENDMENT OF THIS PLAN SHALL BE PERFORMED ONLY BY KEY ENGINEERS, INC. AND SHALL BE PERFORMED UNDER THE ABSOLUTE DIRECTION OF THE LICENSED PROFESSIONAL WHOSE NAME AND SIGNATURE APPEARS HEREON.

Base Bid:**Reconstruction of Pelican Drive From Road 'B' to the Cul-De-Sac**
(PARTIALLY FUNDED THROUGH THE NEW JERSEY DEPARTMENT OF TRANSPORTATION MUNICIPAL AID PROGRAM, FY2022)**Payment Items:**

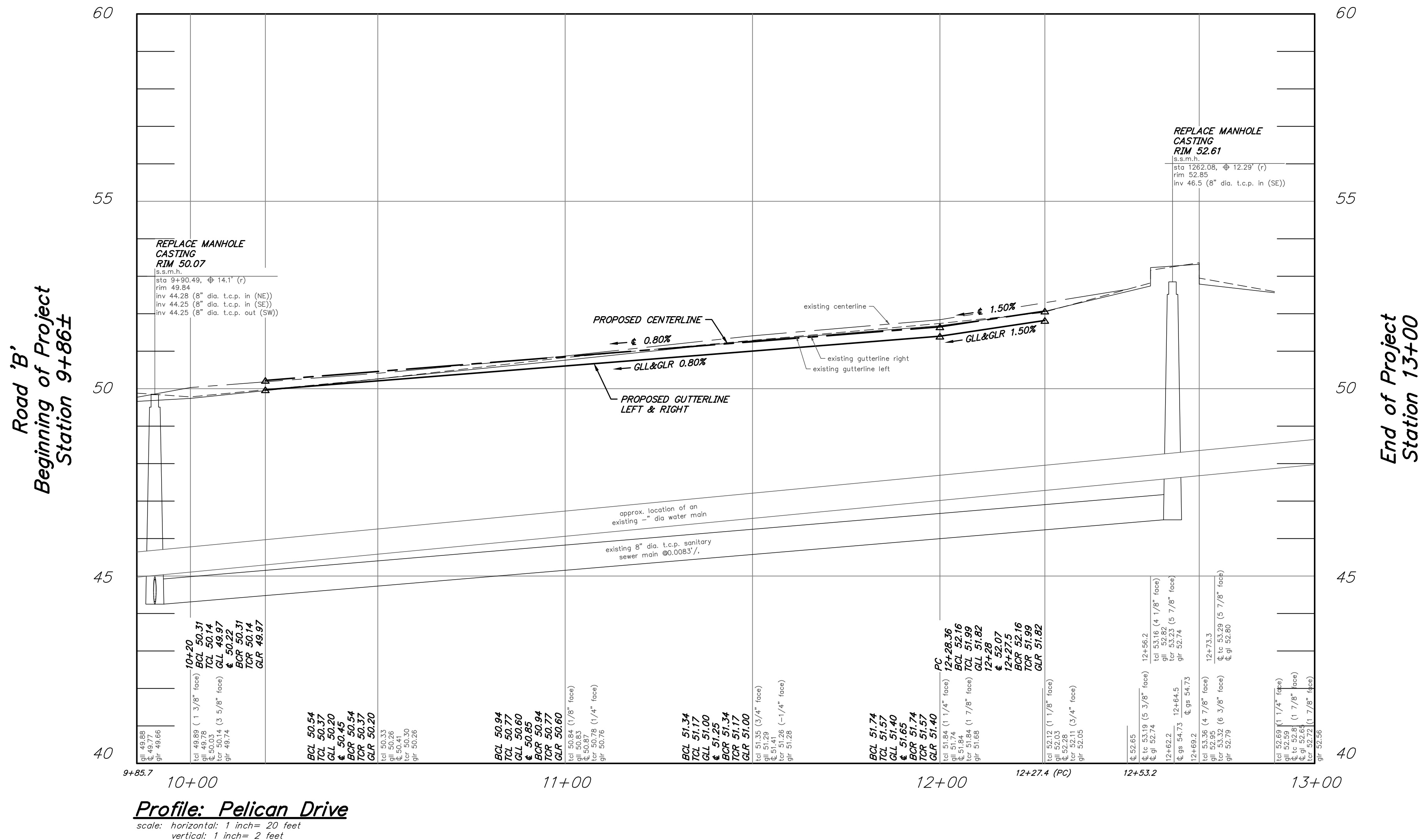
ITEM NUMBER	DESCRIPTION	UNIT MEASURED	QUANTITY
1	SAWCUT BITUMINOUS PAVEMENT	L.F.	145
2	EXCAVATION, UNCLASSIFIED	C.Y.	265
3	CONCRETE SLOPING CURB, CLASS 'B'	L.F.	700
4	6"x8"x18" CONCRETE CURB, CLASS 'B'	L.F.	90
5	CONCRETE SIDEWALK AND CURB RAMP, 4" THICK, CLASS 'B'	S.Y.	80
6	CONCRETE DRIVEWAY, 6" THICK, CLASS 'B'	S.Y.	120
7	CONCRETE ROADWAY, 8" THICK, CLASS 'B'	S.Y.	15
8	PAVEMENT REINFORCING GEOGRID	S.Y.	875
9	DENSE GRADED AGGREGATE SUBBASE, 4" THICK	S.Y.	875
10	HOT MIX ASPHALT, 25M64 BASE COURSE, 3" THICK	S.Y.	875
11	HOT MIX ASPHALT, 9.5M64, SURFACE COURSE, 2" THICK	S.Y.	875
12	DETECTABLE WARNING SURFACE	S.F.	16
13	TOPSOIL, 5" THICK AND SODDING	S.Y.	270
14	SIGN	UNIT	1
15	TRAFFIC STRIPES, 6" WIDE	L.F.	45
16	TRAFFIC STRIPES, 12" WIDE	L.F.	54
17	TRAFFIC MARKINGS	S.F.	14
18	ASPHALT PRICE ADJUSTMENT	L.S.	L.S.
19	FUEL PRICE ADJUSTMENT	L.S.	L.S.

No Specific Payment Items:

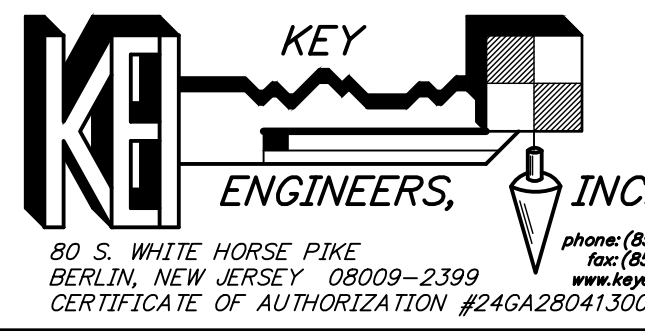
ITEM NUMBER	DESCRIPTION	UNIT MEASURED	QUANTITY
A	SOIL EROSION AND SEDIMENT CONTROL	N.S.P.	N.S.P.
B	REMOVE CONCRETE SLOPING CURB	L.F.	660
C	REMOVE CONCRETE CURB AND GUTTER	L.F.	45
D	REMOVE CONCRETE CURB	L.F.	45
E	REMOVE CONCRETE SIDEWALK	S.Y.	80
F	REMOVE CONCRETE DRIVEWAY	S.Y.	120
G	REPLACE MANHOLE CASTING	UNIT	2
H	RESET WATER VALVE BOX	UNIT	1
I	RESET SIGN	UNIT	2
J	RESET MAILBOX	UNIT	2
K	RESET RAILROAD TIE EDGING	L.F.	54
L	RESET 3' HIGH CHAIN LINK FENCE	L.F.	262
M	RESET 4' HIGH VINYL FENCE	L.F.	48
N	RESET BRICK EDGING	L.F.	25
O	JOINT SEALER	L.F.	145
P	CONCRETE SEALING	N.S.P.	N.S.P.
Q	DEWATERING	N.S.P.	N.S.P.
R	WATERING	N.S.P.	N.S.P.
S	MAINTENANCE AND PROTECTION OF VEHICULAR AND PEDESTRIAN TRAFFIC	N.S.P.	N.S.P.
T	N.J.D.O.T. CIVIL RIGHTS SIGN	UNIT	1

**Plan View: Pelican Drive**

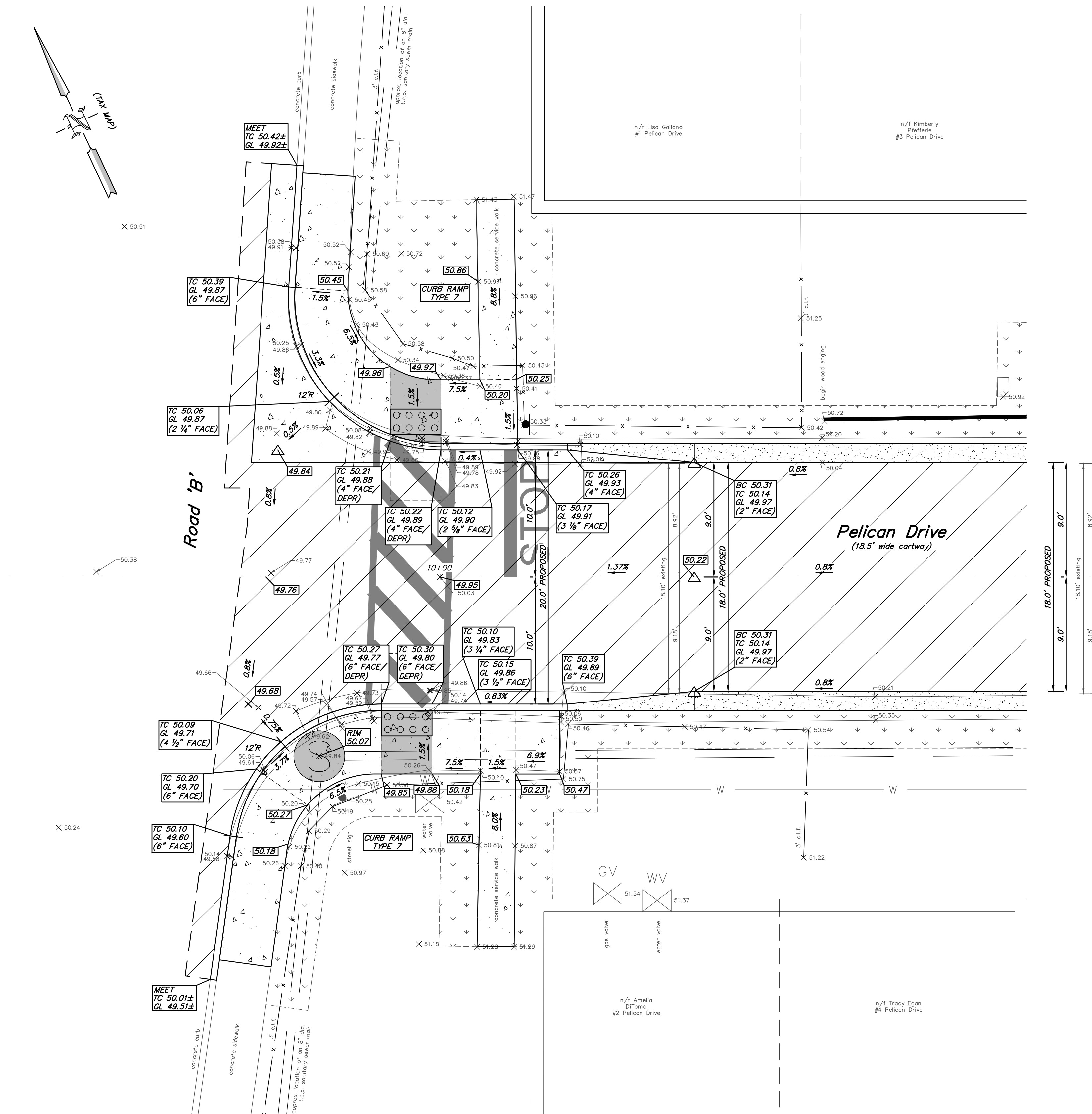
scale 1 inch = 20 feet

SEE INTERSECTION GRADING
PLAN, SHEET 3, FOR
GRADING INFORMATION**Profile: Pelican Drive**scale: horizontal: 1 inch = 20 feet
vertical: 1 inch = 2 feet

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BENCHMARK:
WATER VALVE LOCATED IN THE
CUL-DE-SAC PARKING AREA
(CLOSEST TO STREET)
ELEV. 52.24REPRODUCTION, ALTERATION AND AMENDMENT OF THIS PLAN
SHALL BE PERFORMED ONLY BY KEY ENGINEERS, INC. AND SHALL
BE PERFORMED UNDER THE ABSOLUTE DIRECTION OF THE LICENSED
PROFESSIONAL WHOSE NAME AND SIGNATURE APPEARS HEREON.80 S. WHITE HORSE PIKE
BERLIN, NEW JERSEY 08009-2399
CERTIFICATE OF AUTHORIZATION #24GA28041300phone: (856) 767-6111
fax: (856) 763-1091
www.keyengineers.com

DATE _____



Plan View: Intersection Grading
Plan of Road 'B' and Pelican Drive
scale 1 inch = 5 feet

Legend:

- CONCRETE SIDEWALK AND CURB RAMP, 4" THICK, CLASS 'B' OR CONCRETE DRIVEWAY, 6" THICK, CLASS 'B' OR CONCRETE ROADWAY, 8" THICK, CLASS 'B'
- CONCRETE SLOPING CURB, CLASS 'B'
- EXCAVATION, UNCLASSIFIED
HOT MIX ASPHALT, 9.5M64 SURFACE COURSE, 2" THICK OVER
HOT MIX ASPHALT, 25M64 BASE COURSE, 3" THICK OVER
DENSE GRADED AGGREGATE, 4" THICK OVER
PAVEMENT REINFORCING GEOGRID
- TOPSOIL, 5" THICK AND SODDING

ALL CURB RAMPS CONSTRUCTED SHALL MEET THE PROPOSED ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY (P.R.O.W.A.G.), DATED JULY 26, 2011

THE CONTRACTOR SHALL UTILIZE THE EXISTING ROADWAY AS A CONSTRUCTION ENTRANCE. THE ROADWAY SHALL BE CLEANED AS NEEDED OR AS DIRECTED BY THE CAMDEN COUNTY SOIL CONSERVATION DISTRICT AND THE BOROUGH ENGINEER, TO ELIMINATE TRAFFIC HAZARDS, DUST, ETC. (see soil conservation notes), LUMP SUM (N.S.P.).

ALL CONCRETE SIDEWALK DESIGNATED FOR REMOVAL, SHALL BE REMOVED TO THE NEAREST EXPANSION JOINT. IN LOCATIONS WHERE NO JOINTS EXIST, THE CONCRETE SIDEWALK SHALL BE SAWCUT, VERTICALLY, TO ALLOW FOR THE REMOVAL OF THE EXISTING SIDEWALK.

CRUSHED OR RECYCLED CONCRETE OR CRUSHED OR RECYCLED ASPHALT WILL NOT BE ACCEPTED AS A SUBSTITUTE TO DENSE GRADED AGGREGATE FOR THIS PROJECT

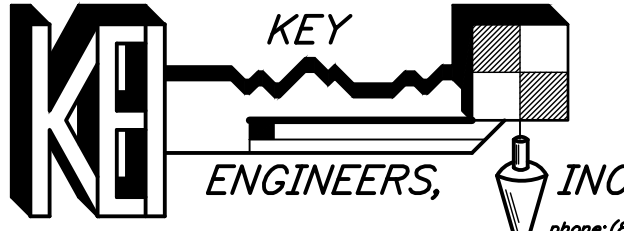
(N.S.P.) INDICATES NO SPECIFIC PAYMENT WILL BE MADE FOR THE ITEM. THE COST SHALL BE INCLUDED IN VARIOUS ITEMS IN THE PROPOSAL.

THE CONTRACTOR SHALL NOT ENTER ONTO ANY PRIVATE PROPERTIES WITHOUT RECEIVING A "CONSENT TO ENTER AGREEMENT" FROM THE PROPERTY OWNER

CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE DEPARTMENT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2019 EDITION, WHICH IS INCORPORATED HEREIN BY REFERENCE, AS AMENDED AND SUPPLEMENTED, AND THE DEPARTMENT'S SUPPLEMENTARY SPECIFICATIONS FOR STATE AID PROJECTS, 2019 EDITION, WHICH IS INCORPORATED HEREIN BY REFERENCE, AS AMENDED AND SUPPLEMENTED. STANDARD CONSTRUCTION DETAILS SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE DEPARTMENT OF TRANSPORTATION. THE NEW JERSEY DEPARTMENT OF TRANSPORTATION "STANDARD ROADWAY CONSTRUCTION/ TRAFFIC CONTROL/ BRIDGE CONSTRUCTION DETAILS" BOOKLET DATED 2016 AND "ELECTRICAL BUREAU STANDARD DETAILS, 2007" AND ALL BASELINE DOCUMENT CHANGES MADE TO THESE CONSTRUCTION DETAILS, SHALL GOVERN, EXCEPT FOR THOSE DETAILS CONTAINED HEREIN. PARTIALLY FUNDED THROUGH NEW JERSEY DEPARTMENT OF TRANSPORTATION MUNICIPAL AID PROGRAM, FY2022

BENCHMARK:
WATER VALVE LOCATED IN THE
CUL-DE-SAC PARKING AREA
(CLOSEST TO STREET)
ELEV. 52.24

REPRODUCTION, ALTERATION AND AMENDMENT OF THIS PLAN SHALL BE PERFORMED ONLY BY KEY ENGINEERS, INC. AND SHALL BE PERFORMED UNDER THE ABSOLUTE DIRECTION OF THE LICENSED PROFESSIONAL WHOSE NAME AND SIGNATURE APPEARS HEREON.

REV.	DATE:	DESCRIPTION	DRWN.	CHKD.
Intersection Grading Plan				
Reconstruction of Pelican Drive from Road 'B' to the Cul-De-Sac Station 9+50 to Station 13+60±				
Borough of Audubon Park Camden County, New Jersey				
DATE: 02/06/23		DRAWN BY: S.H./T.H.	CHKD. BY:	SCALE: AS NOTED
PROJECT No. 40-40AP0521		FIELD BOOK/PAGE:		SHEET No. 3 OF 5
GREGORY BLASE FUSCO PROFESSIONAL ENGINEER				
NJPE No. 32853		PA/PE No. 036608-E NJ PROFESSIONAL PLANNER No. 4076		
			DATE	



CONCRETE SLOPING CURB, CLASS 'B'

TOPSOIL, 5" THICK AND SODDING

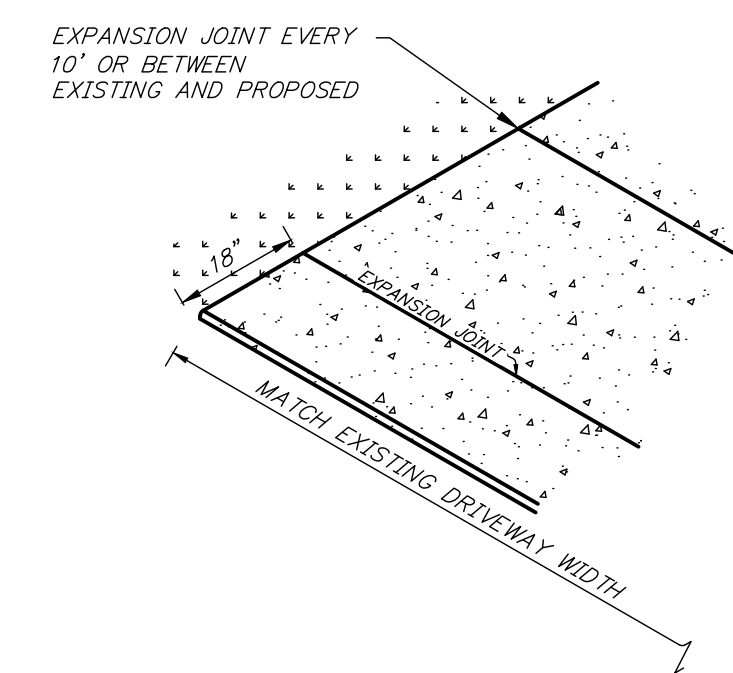
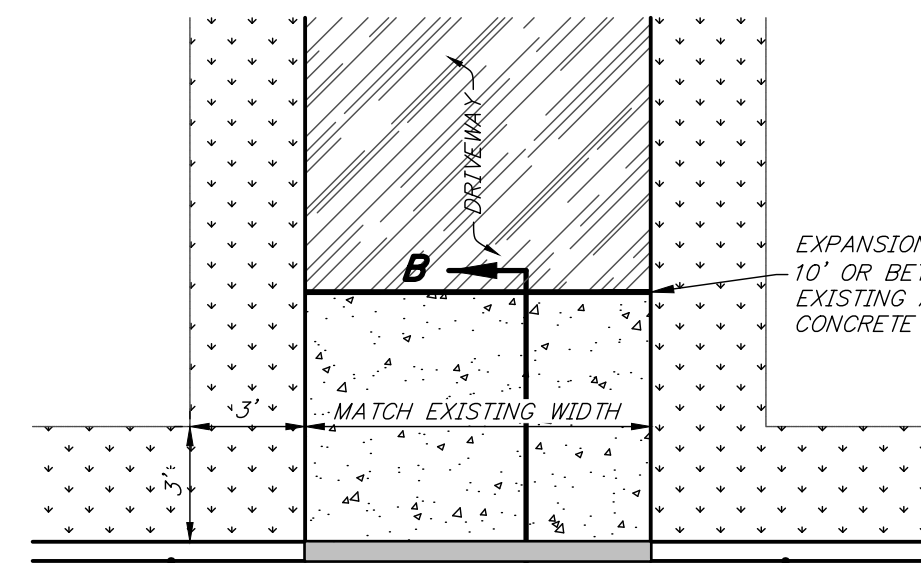
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scale 1 inch = 20 feet

BENCHMARK:
WATER VALVE LOCATED IN THE
CUL-DE-SAC PARKING AREA
(CLOSEST TO STREET)
ELEV. 52.24

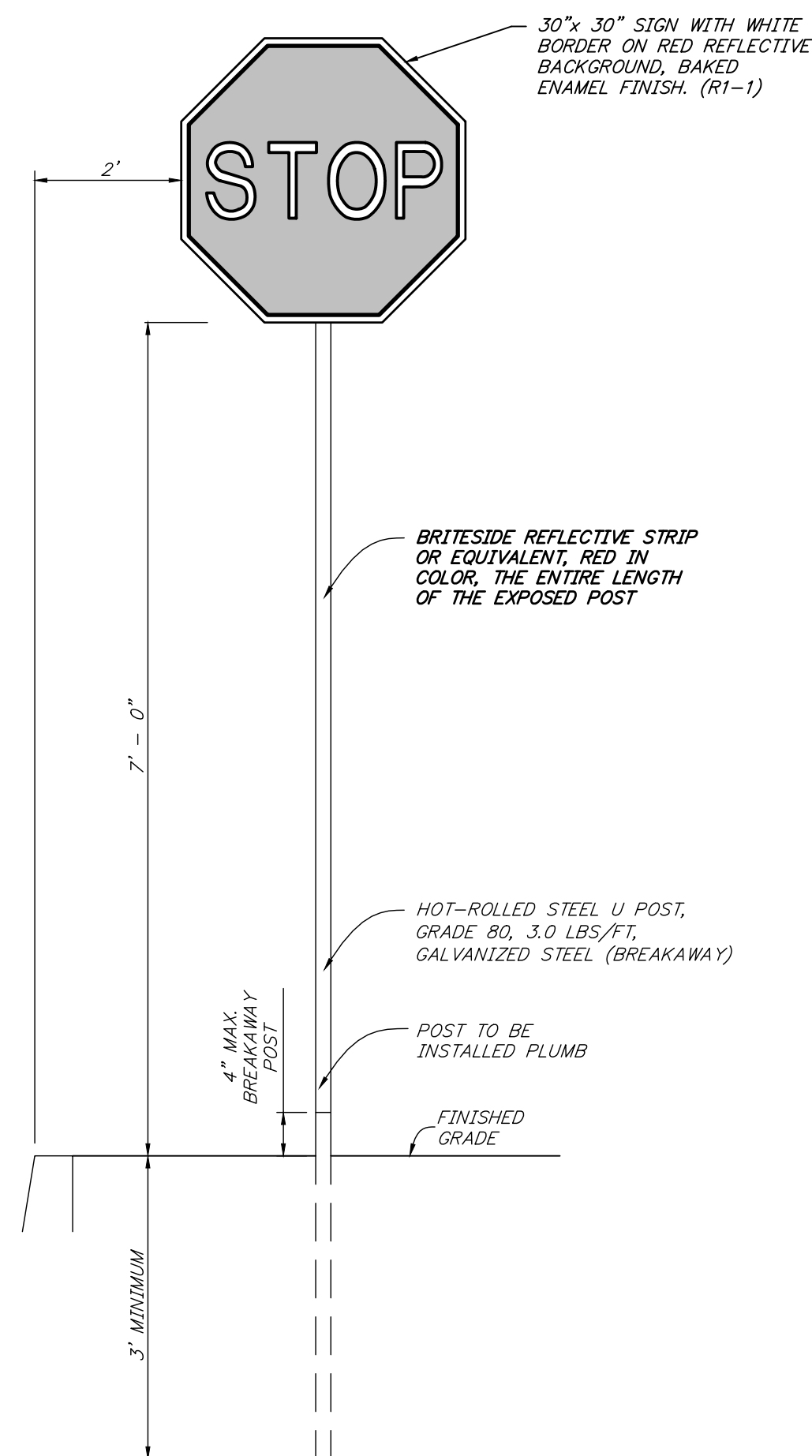
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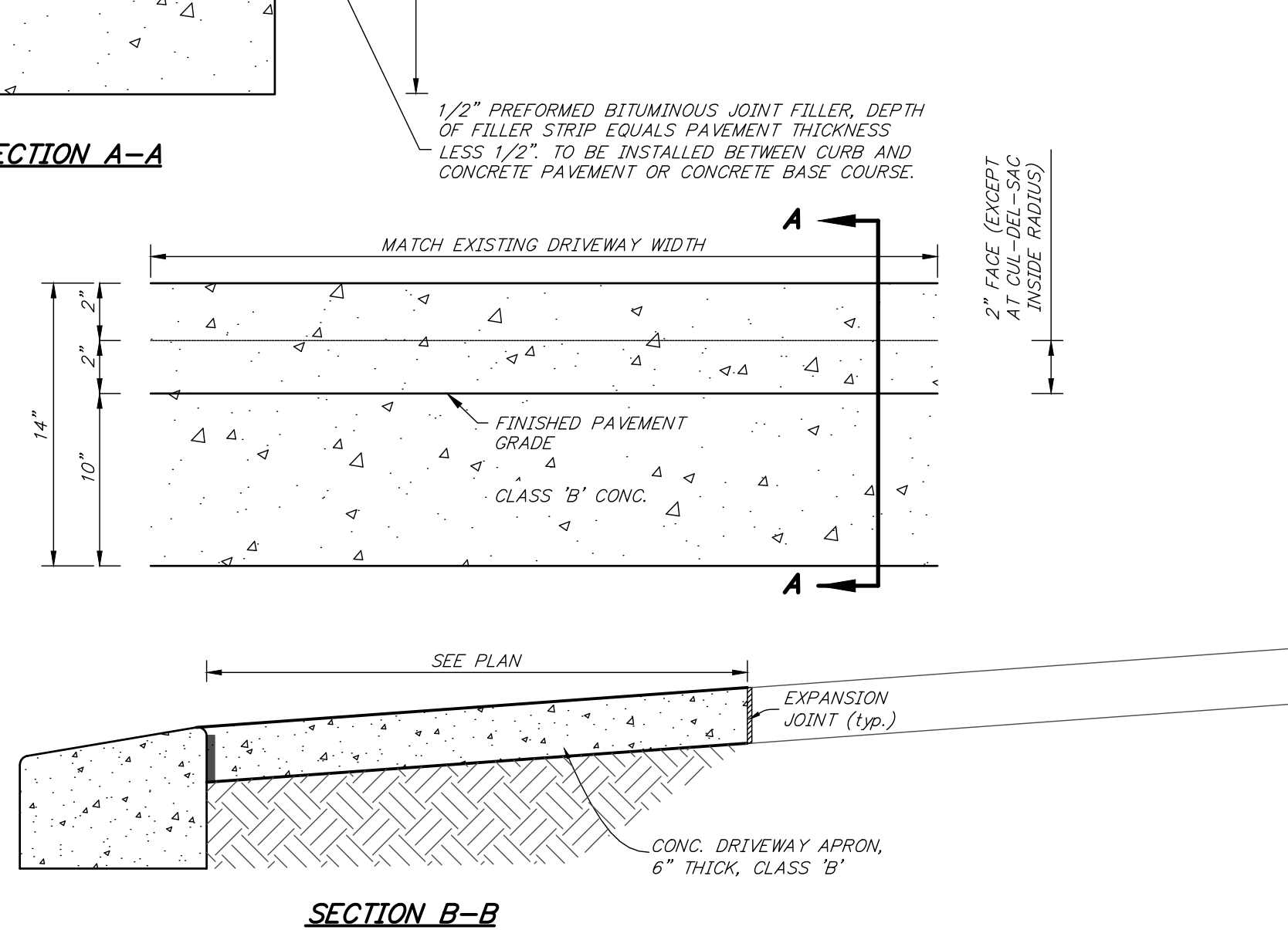
Concrete Driveway Apron, 6" Thick, Class 'B'
& Sloping Concrete Curb Depression Detail

not to scale



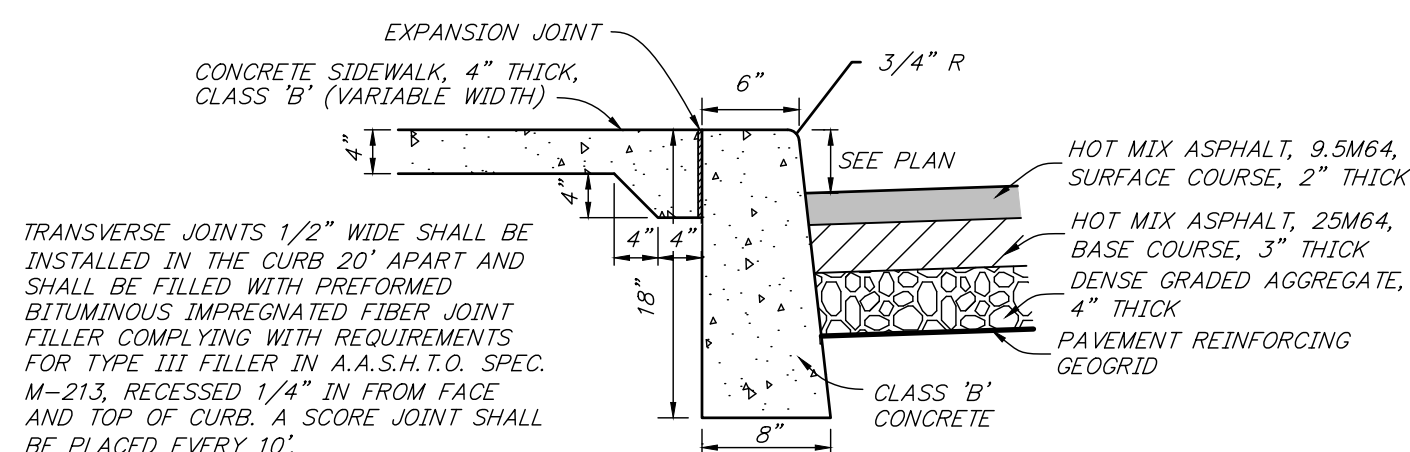
"Stop" Sign Detail

N.T.S.



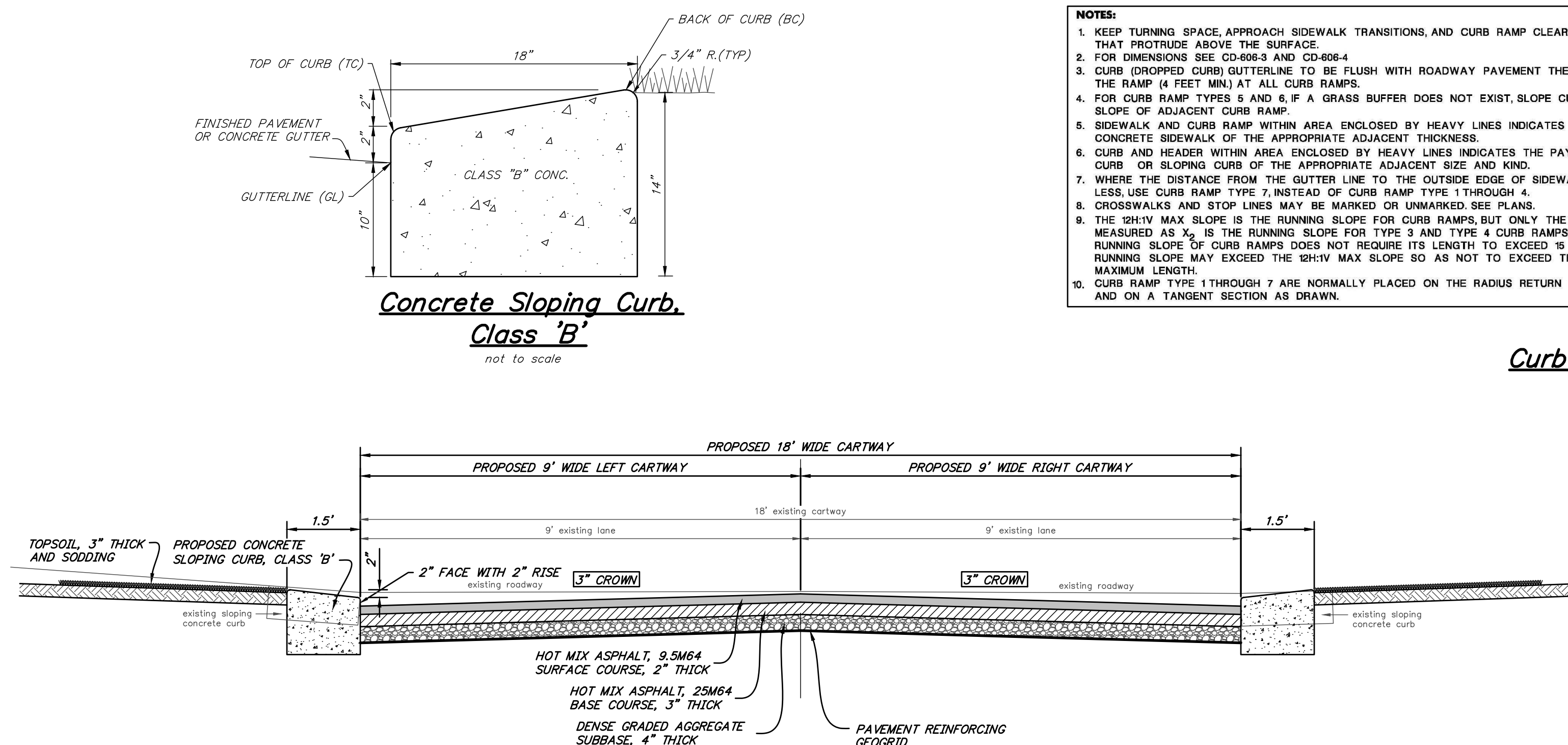
Concrete Sidewalk Against Vertical Curb Detail

not to scale



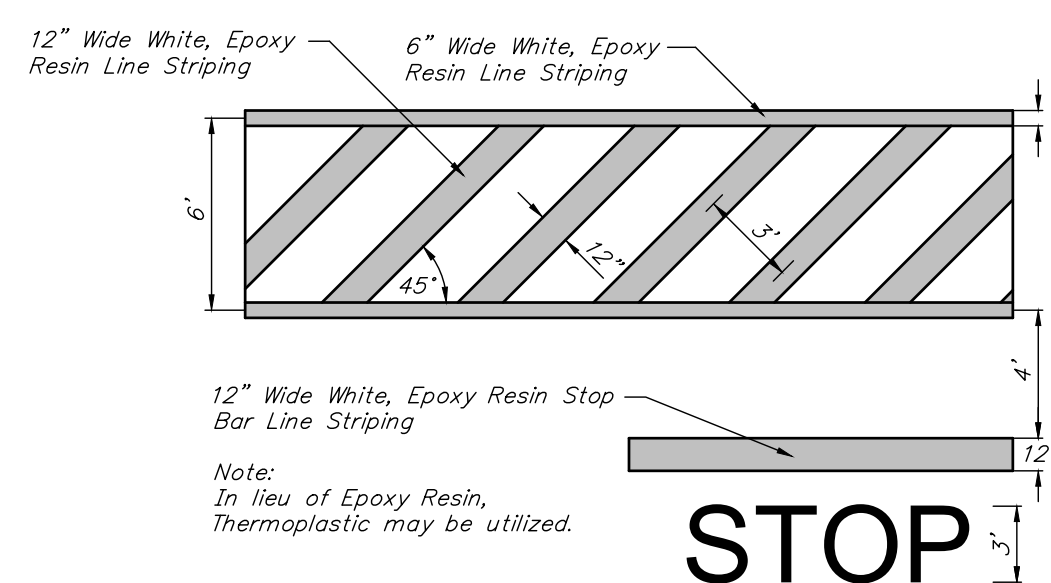
Concrete Sloping Curb.
Class 'B'

not to scale



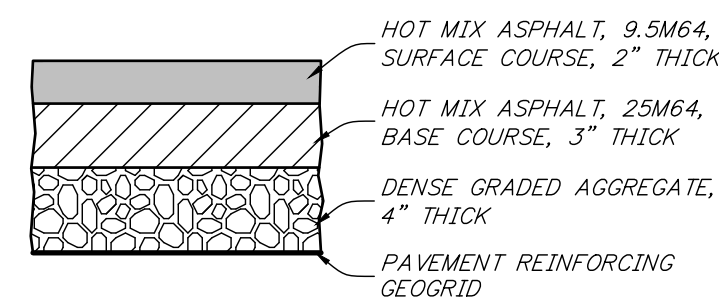
Typical Roadway Cross Section
Pelican Drive (Upstation) Station 10+20 to 12+28

scale: 1 inch = 2 feet



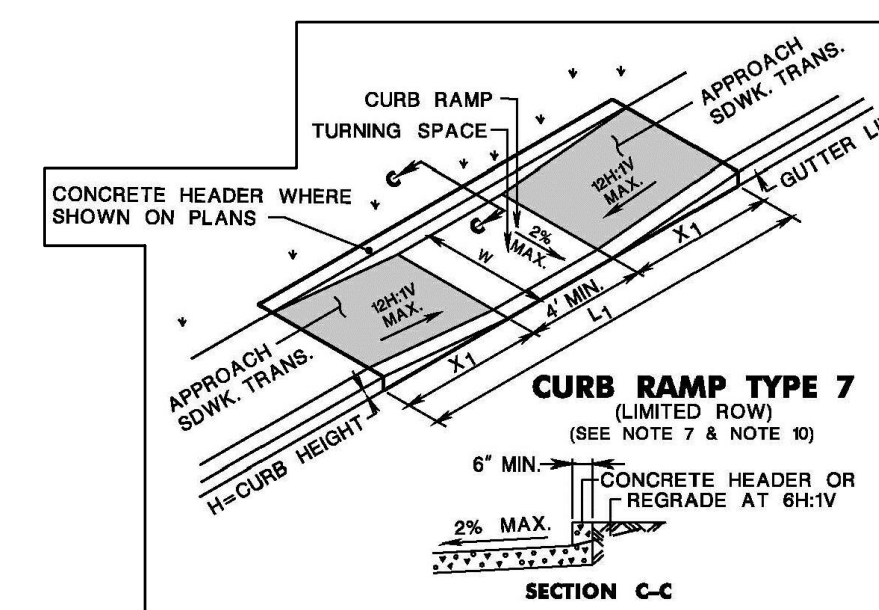
Crosswalk/Stop Bar Detail

Scale 1" = 6'



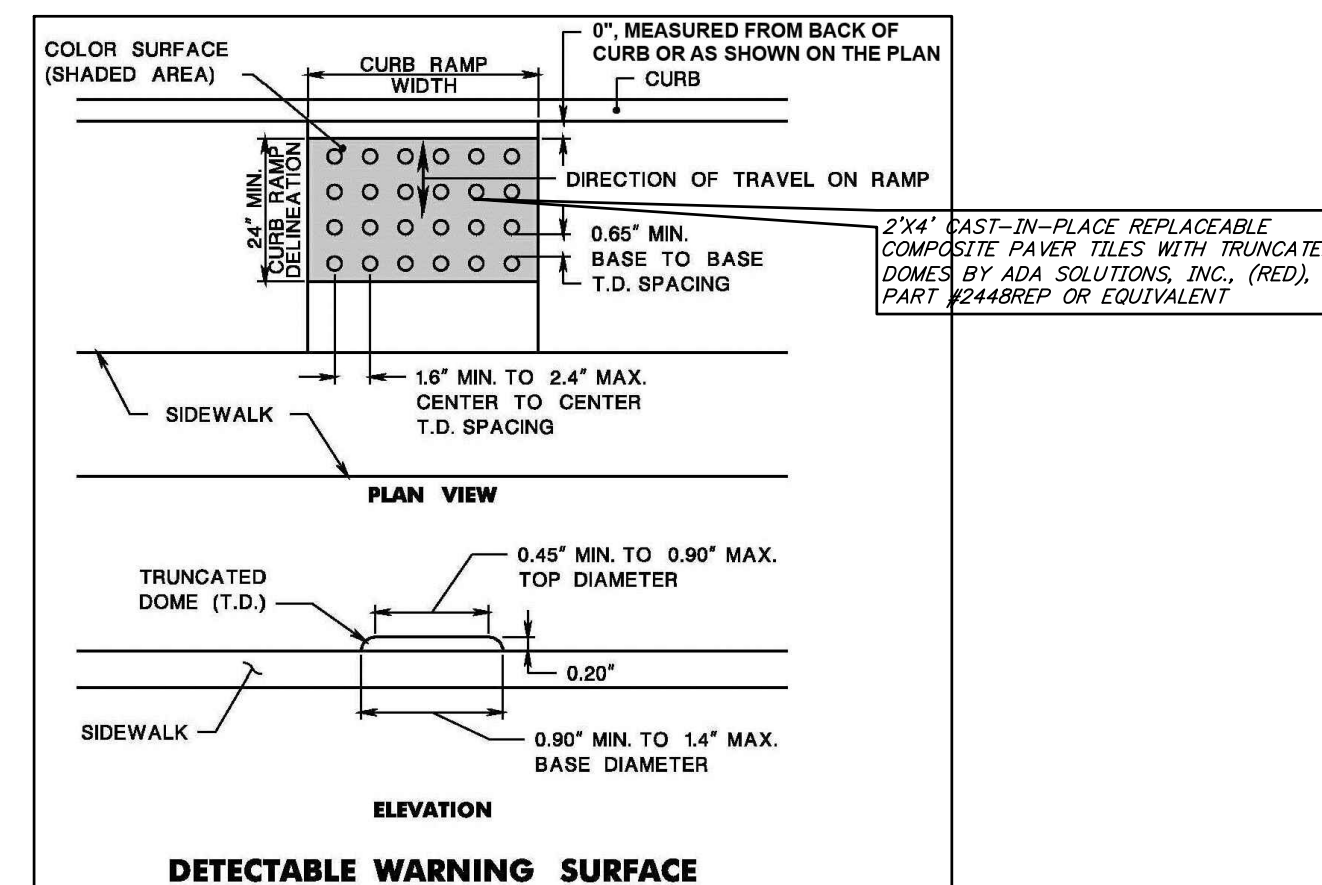
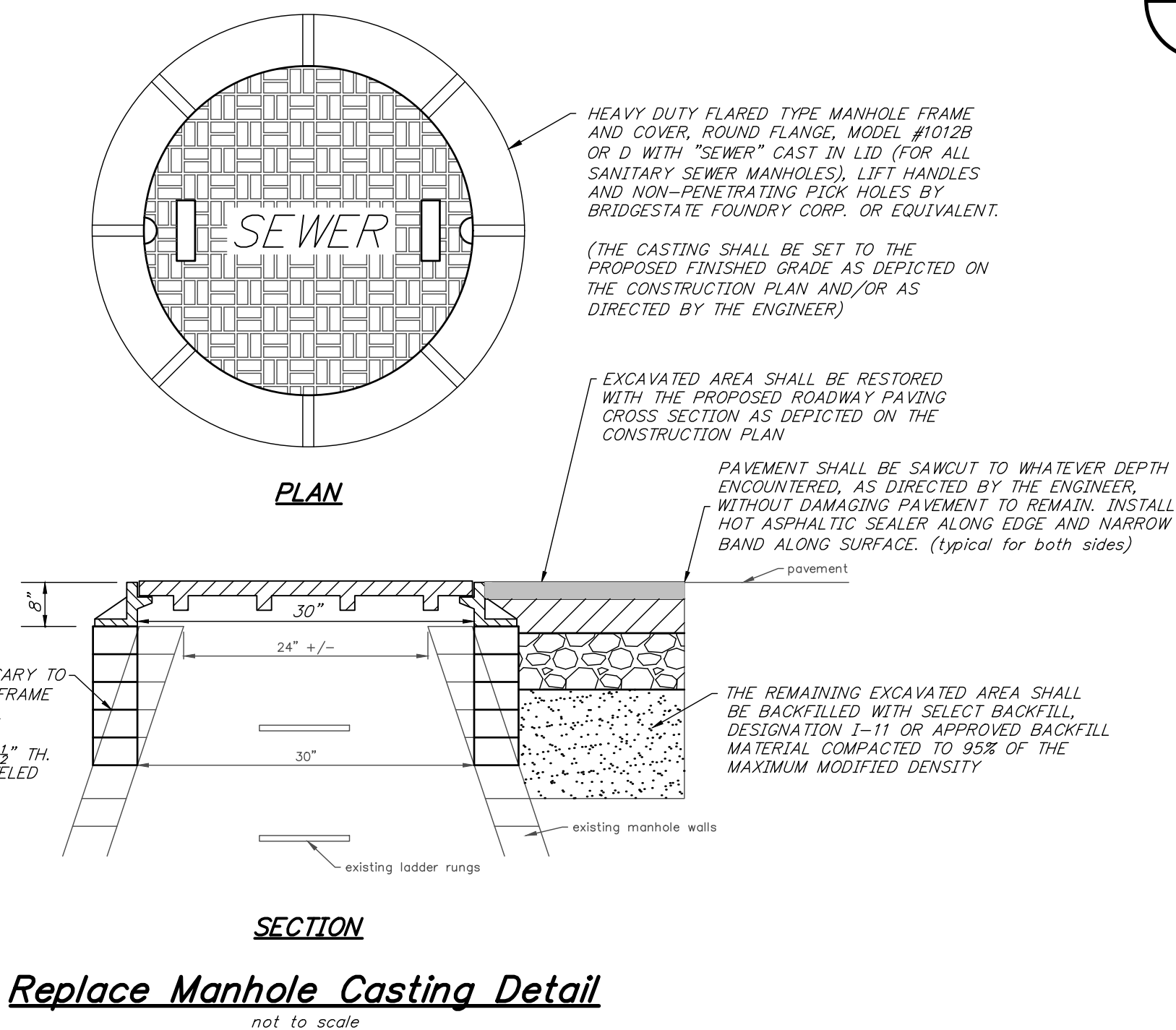
Typical Paving Cross Section

not to scale

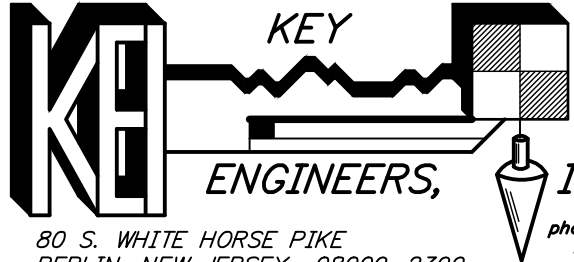


- NOTES:**
1. KEEP TURNING SPACE, APPROACH SIDEWALK TRANSITIONS, AND CURB RAMP CLEAR OF OBSTRUCTIONS THAT PROTRUDE ABOVE THE SURFACE.
 2. FOR DIMENSIONS SEE CD-606.3 AND CD-606-4.
 3. CURB (DROPPED CURB) GUTTERLINE TO BE FLUSH WITH ROADWAY PAVEMENT THE ENTIRE WIDTH OF THE RAMP (4 FEET MIN) AT ALL CURB RAMPS.
 4. FOR CURB RAMP TYPES 5 AND 6, IF A GRASS BUFFER DOES NOT EXIST, SLOPE CURB TO EQUAL SLOPE OF ADJACENT CURB RAMP.
 5. SIDEWALK AND CURB RAMP WITHIN AREA ENCLOSED BY HEAVY LINES INDICATES THE PAY LIMIT FOR CONCRETE SIDEWALK OF THE APPROPRIATE ADJACENT THICKNESS.
 6. CURB AND HEADER WITHIN AREA ENCLOSED BY HEAVY LINES INDICATES THE PAY LIMIT FOR VERTICAL CURB OR CLORING OF CURB OF THE APPROPRIATE ADJACENT SIZE AND KIND.
 7. WHERE THE DISTANCE FROM THE GUTTER LINE TO THE OUTSIDE EDGE OF SIDEWALK IS 6 FEET OR LESS, USE CURB RAMP TYPE 7, INSTEAD OF CURB RAMP TYPE 1 THROUGH 4.
 8. SLOPE AND STOP LINES MAY BE MARKED OR UNMARKED SEE CD-606-3.
 9. THE 12+14 MAX SLOPE IS THE RUNNING SLOPE FOR CURB RAMPS, AND ONLY THE 12+14 SLOPE MEASURED AS X_2 IS THE RUNNING SLOPE FOR TYPE 3 AND TYPE 4 CURB RAMPS. ENSURE THE RUNNING SLOPE OF CURB RAMPS DOES NOT EXCEED ITS LENGTH TO EXCEED 15 FEET. THE RUNNING SLOPE MAY EXCEED THE 12+14 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.

Curb Ramp Details



- NOTES:**
1. KEEP TURNING SPACE, APPROACH SIDEWALK TRANSITIONS, AND CURB RAMP CLEAR OF OBSTRUCTIONS THAT PROTRUDE ABOVE THE SURFACE.
 2. CROSSINGS AND STOP LINES MAY BE MARKED OR UNMARKED, SEE PLANS.
 3. FOR NARROW ISLAND WIDTH SEE PEDESTRIAN FLEXIBLE ISLAND WALKWAY OPENING AT INTERSECTIONS DETAIL.
 4. FOR MEDIUM AND LARGE ISLAND WIDTH, SEE CURB RAMP TYPE 1 ON CD-606.1
 5. CONSTRUCT CURB RAMP TYPES 1,2,3,4, & 7 PERPENDICULAR TO CURBLINE, AS SHOWN.
 6. IF A CURB RAMP IS REQUIRED, THE LOCATION OF THE DETECTABLE WARNING SURFACE MUST BE AT THE BOTTOM OF THE RAMP AND WITHIN THE REQUIRED DISTANCE FROM THE RAIL.
 7. A STANDARD DETECTABLE WARNING (DWS) SURFACE IS NOT AVAILABLE TO FIT THIS APPLICATION, AND THEREFORE ONE WILL NEED TO BE CUSTOMIZED. THE DWS SHOULD COVER THE ENTIRE WIDTH OF THE RAMP. FOR THE DWS OF DOMESTIC RAMP, THE DWS SHOULD COVER THE ENTIRE LENGTH OF THE RAMP, SO PEDESTRIANS WHO USE MOBILE DEVICES CAN TRACK BETWEEN THE DOMES.

REV.	DATE:	DESCRIPTION	DRAWN.	CHKD.
Details				
<i>Reconstruction of Pelican Drive from Road 'B' to the Cul-De-Sac Station 9+50 to Station 13+60±</i>				
<i>Borough of Audubon Park Camden County, New Jersey</i>				
DATE: 02/06/23	DRAWN BY: S.H./T.H.	CHKD. BY:	SCALE: AS NOTED	
PROJECT NO. 40-40AP0521	FIELD BOOK/PAGE:		SHEET No. 5 OF 5	
GREGORY BLASE FUSCO PROFESSIONAL ENGINEER				
N.J.P.E. No. 32853		P.A.P.E. No. 036608-E		
NJ PROFESSIONAL PLANNER No. 4076				
<div style="display: flex; align-items: center;"> <div style="flex: 1;">  <p>KEY</p> <p>ENGINEERS, INC.</p> <p>80 S. WHITE HORSE PkE BERLIN, NEW JERSEY 08009-2399 CERTIFICATE OF AUTHORIZATION #24GA28041300</p> </div> <div style="flex: 1; padding-left: 20px;"> <p>phone: (856) 787-6111 fax: (856) 753-1091 www.ke-engineers.com</p> </div> </div>				
			DATE _____	