

# CONSTRUCTION PLANS

## FOR RECONSTRUCTION OF W. OAKLAND AVENUE FROM NEWTON AVE (C.R. 727) TO THE WHITE HORSE PIKE (N.J.S.H.30) IN THE BOROUGH OF OAKLYN CAMDEN COUNTY, NEW JERSEY (PARTIALLY FUNDED THROUGH THE NEW JERSEY DEPARTMENT OF TRANSPORTATION FY2022) (KEI#25-259OK1121) LENGTH OF PROJECT 700 FT. ±/ 0.133 MILES ±

### General Construction Notes:

- All clearing items (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 incidents for project.
- 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.
- All demolition/ removal items (concrete, asphalt, pipe 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 incidents to the due and lawful prosecution of the project.
- 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 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. (There will be no specific payment for this item, cost to be included in the price for the various items in the Proposal.)
- All areas adjacent to newly installed 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.)
- 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 the 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 prior to the commencement of construction for approval.
- Barriercodes, 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 current 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, County and Municipal regulations.
- 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.)
- 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) DETOURING OF TRAFFIC AND/OR ROAD CLOSURES 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 not store any materials or equipment along the street or which interferes with the daily activities of the residents. In addition, the Contractor shall not be permitted, at any time, to stockpile any materials or park any equipment within the municipal right-of-way after hours. The Contractor shall provide a location for staging areas and equipment storage outside of the right-of-way without creating a hazardous condition, at his expense.
- The Contractor shall schedule the roadway reconstruction and concrete curb trenches so that they are backfilled with dense graded aggregate with ramping at the end of each day so as to maintain vehicular and pedestrian access. The Contractor shall also install the necessary steel plates over roadway trenches, roadway repairs and concrete rocker gutters at the end of each day so as to maintain vehicular and pedestrian access. (NO SPECIFIC PAYMENT) NO OVERNIGHT CLOSURES WILL BE PERMITTED UNLESS APPROVED BY THE CHIEF OF POLICE.
- Pavement trenches shall be filled with temporary pavement, 2" thick to provide a smooth surface. The temporary trench pavement shall be maintained by the Contractor on an as needed basis and as directed by the Engineers. (There will be no specific payment for this item, cost to be included in the price for the 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).
- 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.
- Paving 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, cost to be included in the price for the 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 or County 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 sidewalks, curb ramps, driveway apron/sidewalk shall be N.J.D.O.T. Class 'B', 28 day compressive strength. All concrete roadway shall be 8" thick, Class 'V'. Where the existing concrete roadway is to remain in the area of the proposed concrete curbing, the proposed curb shall be face formed. All proposed concrete roadway area shall be placed at the end of each day so the road is accessible.
- The General Contractor is designated as the "Responsible Person in Charge of Construction" and the site supervisor responsible for construction 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 and all subcontractors 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). (There will be no specific payment for this item, cost to be included in the price of the various items in the Proposal.)
- The Contractor shall email submittals two (2) weeks prior to the commencement of construction for all items for review by the Engineer. (There will be no specific payment for this item, cost to be included in the price of the various items in the Proposal.)
- The Contractor shall video record, with audio description, the entire project limits to document the site conditions and provide a CD or DVD copy to the Engineer. (There will be no specific payment for this item, cost to be included in the price of the various items in the Proposal.)
- The Contractor shall not be permitted to deny access to or enter onto any residential or commercial 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.
- The Contractor shall not enter onto any properties without the Engineer having secured a Consent to Enter from the property owner.
- 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 remobilization costs when authorized by the Engineer to commence.
- Crushed or recycled concrete or crushed or recycled asphalt will not be acceptable as a substitute to dense graded aggregate for this job.
- All disturbed lawn areas shall be excavated and receive Topsoil, 4" and Hydroseeding, in the locations and to the limits as shown on the construction plans. The restoration shall commence within seven days of the completion of the improvements. Any area disturbed outside the limits shall be restored by the Contractor, at his expense. The sod shall be watered and maintained by the Contractor. If the sod dies within one (1) month of installation, the Contractor must remove sodding and install additional topsoil and hydroseeding, and all costs shall be at the Contractor's expense.
- Standard Construction Details shall conform to the latest requirements of the New Jersey Department of Transportation.

### Soil Erosion and Sediment Control Notes

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

- All applicable erosion and sediment control practices shall be in place prior to any grading operation and/or installation of proposed structures or utilities.
- Soil erosion and sediment control practices on this plan shall be constructed in accordance with the Standards for Soil Erosion and Sediment Control in New Jersey.
- All applicable erosion and sediment control practices shall be left in place until construction is completed and/or the area is stabilized.
- The Contractor shall perform all work, furnish all materials and install all measures required to reasonably control soil erosion resulting from construction operations and prevent excessive flow of sediment from the construction site.
- Any disturbed area that will be left exposed for more than sixty (60) days and not subject to construction traffic shall immediately receive a temporary seeding and fertilization in accordance with the New Jersey Standards as follows: If the season prohibits temporary seeding, the disturbed areas will be mulched with salt hay or equivalent and anchored in accordance with the New Jersey Standards (i.e. peg and twine, mulch netting or liquid mulch binder).
- It shall be the responsibility of the Contractor to provide confirmation of lime, fertilizer and seed application and rates of application at the request of the Camden County Soil Conservation District.
- All critical areas subject to erosion will receive a temporary seeding in combination with straw mulch at a rate of 2 tons per acre, according to the New Jersey Standards immediately following rough grading.
- The site shall at all times be graded and maintained such that all stormwater runoff is diverted to soil erosion and sediment control facilities.
- All sedimentation structures will be inspected and maintained on a regular basis and after every storm event.
- The Contractor shall utilize the existing roadway as a construction entrance. The roadway shall be cleared as needed or as directed by the Camden County Soil Conservation District and the Borough Engineer, to eliminate traffic hazards, dust, etc.
- All driveways must be stabilized with 2 1/2" crushed stone or subbase.
- Roadways must be kept clean at all times.
- All catch basin inlets will be protected with crushed stone, haybales or filter fabric (filter details appear on plan).
- All storm drainage outlets will be stabilized, as required, before the discharge points become operational.
- All dewatering operations must discharge directly into a sediment filter area. The sediment filter shall be composed of a suitable sediment filter fabric. (see detail) The basin must be dewatered to normal pool within 10 days of the design storm.
- Final payment shall not be made before all provisions of the certified soil erosion and sediment control plan have been complied with for permanent measures. All site work for the project must be completed prior to the district issuing a report of compliance as a prerequisite to the issuance of final payment.
- Mulching is required on all seeded areas to insure against erosion before grass is established to promote earlier vegetation cover.
- Offsite sediment disturbance may require additional control measures to be determined by the erosion control inspector or Engineer.
- A copy of the certified soil erosion and sediment control plan must be maintained on the project site during construction.
- The Camden County Soil Conservation District shall be notified 48 hours prior to any land disturbance.
- Immediately after the completion of stripping and stockpiling of topsoil, seed the stockpiles with annual ryegrass. Stabilize topsoil pile with straw mulch for protection if the season does not permit the application and establishment of temporary seeding. All soil stockpiles are not to be located within fifty (50) feet of a flood plain, slope, roadway or drainage facility and the base must be protected with a sediment barrier.
- Temporary seeding and mulch should be applied according to the New Jersey Standards. Mulch shall be secured by the approved methods.
- Maximum side slopes of all exposed surfaces shall not be constructed steeper than 3:1 unless otherwise approved by the district.
- Dust shall be controlled by watering with a solution of calcium chloride and water.
- Adjoining properties shall be protected from excavation and filling operations on the proposed project.
- Use staged construction methods to minimize exposed surfaces, where applicable.
- All vegetative material shall be selected in accordance with American Standards for Nursery Stock of the American Association of the Nurserymen and in accordance with the New Jersey Department of Transportation Standard Specifications.

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7.	Driveway Entrance Construction Detail
8.	Details

### Utility Companies:

- Electric**— P.S.E.G. Services Corporation  
Construction Inquiry Center  
410 Route 130 South  
Bordentown NJ 08805  
PH: 800-832-0076
- Public Works**—Oaklyn Borough Public Works Department  
500 White Horse Pike - Mailing Address  
350 W. Cedar Avenue - Physical Address  
Oaklyn, NJ 08107  
ATTN: Mr. Rich Hawco, C.P.W.M  
PH: 856-854-0636
- Gas**— P.S.E.G. Services Corporation  
Gas Distribution Department  
535 Nicholson Road  
Audubon, NJ 08106  
ATTN: Mr. Ryan More  
(856)-573-2018
- Water**— New Jersey American Water  
204 Carriage Lane  
Delran, NJ 08075  
ATTN: Mr. John Graham, Jr.  
PH: 856-784-9920
- Sewer**— Oaklyn Borough Public Works Department  
500 White Horse Pike - Mailing Address  
350 W. Cedar Avenue - Physical Address  
Oaklyn, NJ 08107  
ATTN: Mr. Rich Hawco, C.P.W.M  
PH: 856-854-0636
- Cable TV**— Comcast Cable Communications, Inc.  
1250 Haddonfield-Berlin Road  
Post Office Box 5025  
Cherry Hill NJ 08034  
ATTN: Mr. Ken Stronski, Sr.  
(856) 689-0119
- Telephone**— Verizon  
10 Tansboro Road  
Berlin, NJ 08009-1907  
ATTN: Mr. Michael Leone (856) 306-8611  
Mr. Ryan Loehoe (609) 204-2129



### List of Quantities:

Base Bid, Alternate No 1: Remaining Concrete Sidewalk Replacement  
(PARTIALLY FUNDED THROUGH THE N.J.DOT MUNICIPAL AID PROGRAM, FY2022)

ITEM NUMBER	DESCRIPTION	UNIT MEASURED	QUANTITY SHEET No. 5	QUANTITY SHEET No. 6	TOTALS
1	CONCRETE SIDEWALK AND CURB RAMP, 4" THICK, CLASS 'B', WITH SOIL AGGREGATE SUBBASE, 4" THICK	S.Y.	180	165	345
2	CONCRETE DRIVEWAY APRON/ SIDEWALK, 6" THICK, CLASS 'V', WITH DENSE AGGREGATE SUBBASE, 4" THICK	S.Y.	0	30	30
3	TOPSOIL, 5" THICK AND SODDING	S.Y.	150	100	250

### No Specific Payment Items:

ITEM NUMBER	DESCRIPTION	UNIT MEASURED	QUANTITY SHEET No. 5	QUANTITY SHEET No. 6	TOTALS
A	REMOVE CONCRETE SIDEWALK/ CURB RAMP/ CONCRETE AREA	S.Y.	180	165	345
B	REMOVE CONCRETE DRIVEWAY APRON/ SIDEWALK	S.Y.	0	30	30

### List of Quantities:

Base Bid, Reconstruction of W. Oakland Avenue from Newton Avenue (C.R. 727) to The White Horse Pike (N.J.S.H. 30)  
(PARTIALLY FUNDED THROUGH THE N.J.DOT MUNICIPAL AID PROGRAM, FY2022)

ITEM NUMBER	DESCRIPTION	UNIT MEASURED	QUANTITY SHEET No. 3	QUANTITY SHEET No. 4	TOTALS
1	SAWCUT BITUMINOUS PAVEMENT	L.F.	310	204	514
2	SAWCUT CONCRETE PAVEMENT	L.F.	220	0	220
3	MILL PAVEMENT, 2" THICK	S.Y.	150	0	150
4	REMOVE CONCRETE ROADWAY	S.Y.	80	0	80
5	EXCAVATION, UNCLASSIFIED	C.Y.	302	344	646
6	PARGE MANHOLE STRUCTURE	UNIT	2	1	3
7	6"X8"X18" CONCRETE CURB, CLASS 'B' WITH SELECT BACKFILL, DESIGNATION I-11 AND DENSE GRADED AGGREGATE SUBBASE, 4" THICK	L.F.	715	580	1,295
8	9"X18" CONCRETE CURB, CLASS 'B' WITH SELECT BACKFILL, DESIGNATION I-11 AND DENSE GRADED AGGREGATE SUBBASE, 4" THICK	L.F.	60	0	60
9	CONCRETE ROCKER GUTTER, 8" THICK, CLASS 'V' W/MELDED WIRE MESH 6"x6"xW1.4xW1.4, DENSE GRADED AGGREGATE SUBBASE, 6" THICK AND TRENCH FILTER FABRIC	S.Y.	25	0	25
10	CONCRETE SIDEWALK AND CURB RAMP, 4" THICK, CLASS 'B', WITH SOIL AGGREGATE SUBBASE, 4" THICK	S.Y.	100	30	130
11	CONCRETE DRIVEWAY APRON/ SIDEWALK, 6" THICK, CLASS 'V', WITH DENSE AGGREGATE SUBBASE, 4" THICK	S.Y.	80	120	200
12	DETECTABLE WARNING SURFACE	S.F.	16	8	24
13	CONCRETE ROADWAY, 8" THICK, CLASS 'V'	S.Y.	35	0	35
14	PAVEMENT REINFORCING GEOGRID (DRIVEWAY)	S.Y.	0	116	116
15	DENSE GRADED AGGREGATE SUBBASE, 4" THICK (DRIVEWAY)	S.Y.	0	116	116
16	HOT MIX ASPHALT, 25M64 BASE COURSE, 3" THICK (DRIVEWAY)	S.Y.	0	116	116
17	HOT MIX ASPHALT, 9.5M64 SURFACE COURSE, 2" THICK (DRIVEWAY)	S.Y.	0	116	116
18	PAVEMENT REINFORCING GEOGRID	S.Y.	925	960	1,885
19	DENSE GRADED AGGREGATE SUBBASE, 6" THICK	S.Y.	925	960	1,885
20	HOT MIX ASPHALT, 25M64 BASE COURSE, 4" THICK	S.Y.	925	960	1,885
21	HOT MIX ASPHALT, 9.5M64 SURFACE COURSE, 2" THICK	S.Y.	1,075	960	2,035
22	SIGN	UNIT	2	2	4
23	TOPSOIL, 5" THICK AND SODDING	S.Y.	425	290	715
24	PAINT CURB YELLOW	L.F.	0	20	20
25	TRAFFIC STRIPES, 6" WIDE	L.F.	155	115	270
26	TRAFFIC STRIPES, 12" WIDE	L.F.	160	30	190
27	TRAFFIC MARKINGS	S.F.	30	80	110
28	ASPHALT PRICE ADJUSTMENT	L.S.	L.S.	L.S.	L.S.
29	FUEL PRICE ADJUSTMENT	L.S.	L.S.	L.S.	L.S.
30	REMOVE 25"-36" DIA. TREE	UNIT	1	0	1

### No Specific Payment Items:

ITEM NUMBER	DESCRIPTION	UNIT MEASURED	QUANTITY SHEET No. 3	QUANTITY SHEET No. 4	TOTALS
A	SOIL EROSION AND SEDIMENT CONTROL	N.S.P.	N.S.P.	N.S.P.	N.S.P.
B	CLEANOUT PROTECTION BOX	UNIT	0	2	2
C	REMOVE BOLLARD	UNIT	1	0	1
D	REMOVE OVERLAID CONCRETE CURB AND GUTTER	L.F.	715	580	1,295
E	REMOVE CONCRETE CURB	L.F.	60	0	60
F	REMOVE CONCRETE SIDEWALK/ CURB RAMP/ CONCRETE AREA	S.Y.	100	30	130
G	REMOVE CONCRETE DRIVEWAY APRON/ SIDEWALK	S.Y.	80	120	200
H	REMOVE SIGN	UNIT	1	2	3
I	RESET SIGN	UNIT	6	2	8
J	RESET WATER VALVE BOX	UNIT	1	2	3
K	RESET WATER METER BOX	UNIT	0	1	1
L	RESET GAS VALVE BOX	UNIT	1	0	1
M	RESET SANITARY SEWER CLEANOUT/ SEWER VENT	UNIT	2	2	4
N	RECONSTRUCT ROOF DRAIN	UNIT	1	0	1
O	JOINT SEALER	N.S.P.	N.S.P.	N.S.P.	N.S.P.
P	CONCRETE SEALING	N.S.P.	N.S.P.	N.S.P.	N.S.P.
Q	WATERING	N.S.P.	N.S.P.	N.S.P.	N.S.P.
R	MAINTENANCE AND PROTECTION OF VEHICULAR AND PEDESTRIAN TRAFFIC	N.S.P.	N.S.P.	N.S.P.	N.S.P.
S	N.J.D.O.T. CIVIL RIGHTS SIGN	UNIT	1	0	1

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 THE N.J.D.O.T. 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.

REV. DATE: DESCRIPTION DRWN. CHRD.

**Cover Sheet**

N.J.D.O.T. Municipal Aid Program, FY2022  
Reconstruction of W. Oakland Avenue from Newton Ave.(CR 727) to the White Horse Pike(NJSH 30)

Borough of Oaklyn  
Camden County, New Jersey

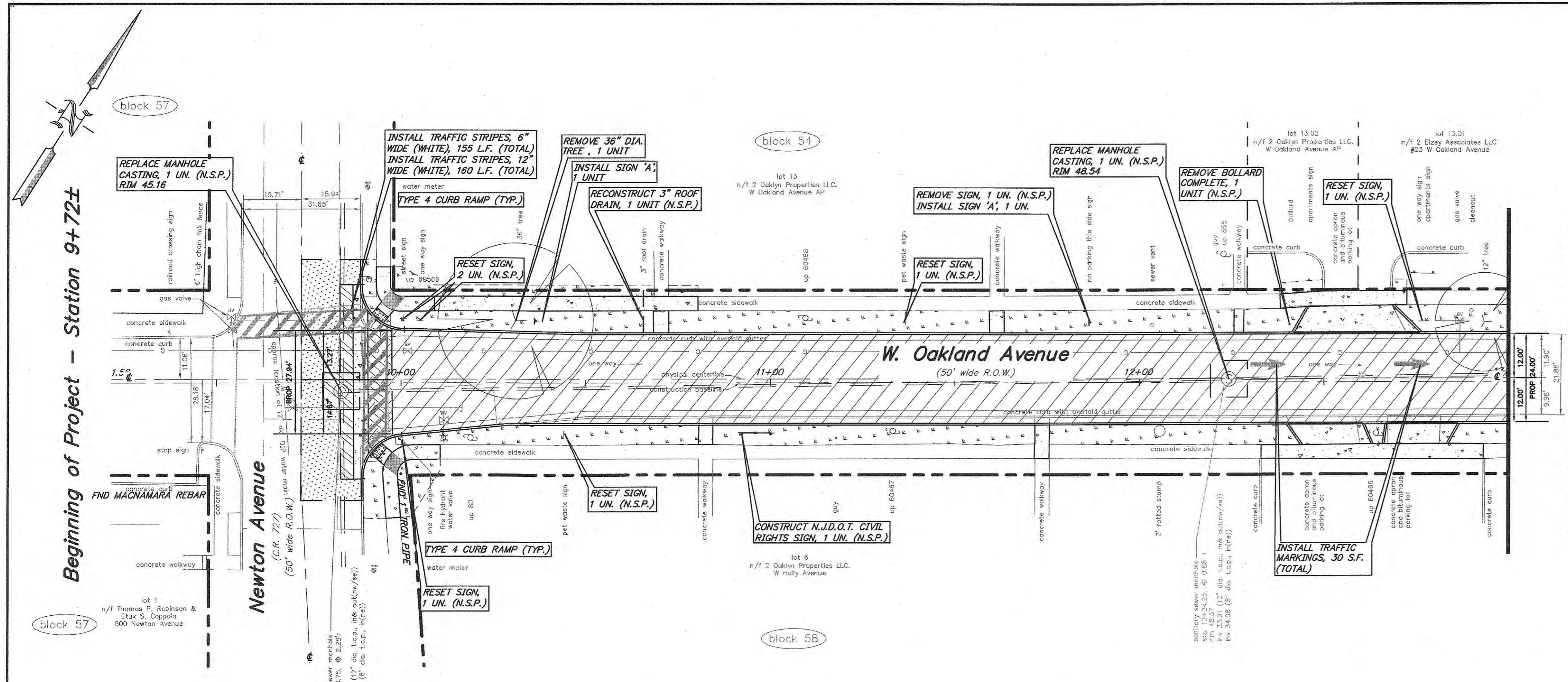
DATE: 02/03/2023 DRAWN BY: J.B. CHKD. BY: G.E. SCALE: AS NOTED  
PROJECT No. 25-259OK1121 FIELD BOOK/PAGE: SHEET No. 1 OF 9

**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) 733-1091  
WWW.KEYENGINEERS.COM

DATE: 2/3/23





**Legend:**

- CONCRETE SIDEWALK, 4" THICK, CLASS 'B', WITH SOIL AGGREGATE SUBBASE, 4" THICK OR CONCRETE DRIVEWAY APRON/ SIDEWALK, 6" THICK, CLASS 'B', WITH DENSE GRADED AGGREGATE SUBBASE, 4" THICK
- REMOVE 8" THICK CONCRETE BASE DENSE GRADED AGGREGATE, 6" THICK HOT MIX ASPHALT, 25M64 BASE COURSE, 4" THICK HOT MIX ASPHALT, 9.5M64 SURFACE COURSE, 2" THICK
- MILL PAVEMENT, 2" THICK HOT MIX ASPHALT, 9.5M64, SURFACE COURSE, 2" THICK
- CONCRETE BASE, 8" THICK, CLASS 'Y' HOT MIX ASPHALT, 9.5M64 SURFACE COURSE, 2" THICK
- EXCAVATION, UNCLASSIFIED PAVEMENT REINFORCING GEGRID PAVEMENT REINFORCING GEGRID 1-11 AND DENSE GRADED AGGREGATE SUBBASE, 4" THICK HOT MIX ASPHALT, 25M64 BASE COURSE, 4" THICK HOT MIX ASPHALT, 9.5M64 SURFACE COURSE, 2" THICK
- TOPSOIL, 5" THICK AND SODDING
- 6"x18" CONCRETE CURB, CLASS 'B', WITH SELECT BACKFILL, DESIGNATION 1-11 AND DENSE GRADED AGGREGATE SUBBASE, 4" THICK OR 6"x18" CONCRETE CURB, CLASS 'B', WITH SELECT BACKFILL, DESIGNATION 1-11 AND DENSE GRADED AGGREGATE SUBBASE, 4" THICK

**List of Quantities:**

Base Bid: Reconstruction of W. Oakland Avenue from Newton Avenue (C.R. 727) to the White Horse Pike (N.J.S.H. 30) (PARTIALLY FUNDED THROUGH THE N.J.D.O.T. MUNICIPAL AID PROGRAM, FY2022)

ITEM NUMBER	DESCRIPTION	UNIT MEASURED	QUANTITY
1	SAWCUT BITUMINOUS PAVEMENT	L.F.	310
2	SAWCUT CONCRETE PAVEMENT	L.F.	220
3	MILL PAVEMENT, 2" THICK	S.Y.	150
4	REMOVE CONCRETE ROADWAY	S.Y.	80
5	EXCAVATION, UNCLASSIFIED	C.Y.	302
6	PARGE MANHOLE STRUCTURE	UNIT	2
7	6"x18" CONCRETE CURB, CLASS 'B' WITH SELECT BACKFILL, DESIGNATION 1-11 AND DENSE GRADED AGGREGATE SUBBASE, 4" THICK	L.F.	715
8	9"x18" CONCRETE CURB, CLASS 'B' WITH SELECT BACKFILL, DESIGNATION 1-11 AND DENSE GRADED AGGREGATE SUBBASE, 4" THICK	L.F.	60
9	CONCRETE ROCKER GUTTER, 8" THICK, CLASS 'Y' W/ WELDED WIRE MESH 6"x6" W/ 4x4 W/ 4, DENSE GRADED AGGREGATE SUBBASE, 6" THICK AND TRENCH FILTER FABRIC	S.Y.	25
10	CONCRETE SIDEWALK AND CURB RAMP, 4" THICK, CLASS 'B', WITH SOIL AGGREGATE SUBBASE, 4" THICK	S.Y.	100
11	CONCRETE DRIVEWAY APRON/ SIDEWALK, 6" THICK, CLASS 'Y', WITH DENSE GRADED AGGREGATE SUBBASE, 4" THICK	S.Y.	80
12	DETECTABLE WARNING SURFACE	S.F.	16
13	CONCRETE ROADWAY, 8" THICK, CLASS 'Y'	S.Y.	35
14	PAVEMENT REINFORCING GEGRID (DRIVEWAY)	S.Y.	0
15	DENSE GRADED AGGREGATE SUBBASE, 4" THICK (DRIVEWAY)	S.Y.	0
16	HOT MIX ASPHALT, 25M64 BASE COURSE, 3" THICK (DRIVEWAY)	S.Y.	0
17	HOT MIX ASPHALT, 9.5M64 SURFACE COURSE, 2" THICK (DRIVEWAY)	S.Y.	0
18	PAVEMENT REINFORCING GEGRID	S.Y.	925
19	DENSE GRADED AGGREGATE SUBBASE, 6" THICK	S.Y.	925
20	HOT MIX ASPHALT, 25M64 BASE COURSE, 4" THICK	S.Y.	925
21	HOT MIX ASPHALT, 9.5M64 SURFACE COURSE, 2" THICK	S.Y.	1075
22	SIGN	UNIT	2
23	TOPSOIL, 5" THICK AND SODDING	S.Y.	425
24	PAINT CURB YELLOW	L.F.	0
25	TRAFFIC STRIPES, 6" WIDE	L.F.	155
26	TRAFFIC STRIPES, 12" WIDE	L.F.	160
27	TRAFFIC MARKINGS	S.F.	30
28	ASPHALT PRICE ADJUSTMENT	L.S.	L.S.
29	FUEL PRICE ADJUSTMENT	L.S.	L.S.
30	REMOVE 25"-36" DIA. TREE	UNIT	1

- CONCRETE IMPROVEMENTS:**  
 REMOVE OVERLAP CONCRETE CURB & GUTTER 715 L.F. (N.S.P.)  
 REMOVE CONCRETE CURB 80 L.F. (N.S.P.)  
 REMOVE CONCRETE SIDEWALK / CURB RAMP / CONCRETE AREA, 100 S.Y. (N.S.P.)  
 REMOVE CONCRETE DRIVEWAY APRON/ SIDEWALK, 80 S.Y. (N.S.P.)  
 CONSTRUCT 6"x18" CONCRETE CURB, CLASS 'B', WITH SELECT BACKFILL, DESIGNATION 1-11 AND DENSE GRADED AGGREGATE SUBBASE, 4" THICK, 715 L.F.  
 CONSTRUCT 9"x18" CONCRETE CURB, CLASS 'B', WITH SELECT BACKFILL, DESIGNATION 1-11 AND DENSE GRADED AGGREGATE SUBBASE, 4" THICK, 60 L.F.  
 CONSTRUCT CONCRETE ROCKER GUTTER, 8" THICK, CLASS 'Y' W/ WELDED WIRE MESH 6" X 6" X W/ 4X 4, DENSE GRADED AGGREGATE SUBBASE, 6" THICK AND TRENCH FILTER FABRIC, 25 S.Y.  
 CONSTRUCT CONCRETE SIDEWALK AND CURB RAMP, 4" THICK CLASS 'B', WITH SOIL AGGREGATE SUBBASE, 4" THICK, 100 S.Y.  
 CONSTRUCT CONCRETE DRIVEWAY APRON/ SIDEWALK, 6" THICK, CLASS 'B' WITH SOIL AGGREGATE SUBBASE, 4" THICK, 80 S.Y.
- BITUMINOUS RESTORATION:**  
 EXCAVATION, UNCLASSIFIED, 302 C.Y.  
 SAWCUT BITUMINOUS PAVEMENT, 310 L.F.  
 MILLING PAVEMENT, 2" THICK, 150 S.Y.  
 PAVEMENT REINFORCING GEGRID, 925 S.Y.  
 DENSE GRADED AGGREGATE, 6" THICK, 925 S.Y.  
 HOT MIX ASPHALT, 25M64 BASE COURSE, 4" THICK, 925 S.Y.  
 HOT MIX ASPHALT, 9.5M64 SURFACE COURSE, 2" THICK, 1075 S.Y.
- TOPSOIL, 5" THICK AND SODDING, 425 S.Y.**
- RESET WATER VALVE BOX, 1 UNIT (N.S.P.)**  
**RESET GAS VALVE BOX, 1 UNIT (N.S.P.)**  
**RESET SANITARY SEWER CLEANOUT/SEWER VENT, 2 UNITS (N.S.P.)**

**NOTES:**

- WEST OAKLAND AVENUE IS A ONE-WAY STREET, FROM NEWTON AVENUE (C.R. 727) TO THE WHITE HORSE PIKE (N.J.S.H. 30).
- THERE ARE TWO (2) APARTMENT COMPLEXES WITHIN THE PROJECT LIMITS KNOWN AS "OAKLAND GARDENS" AND "THE SAVOY APARTMENTS" WHICH ARE SERVICED BY WEST OAKLAND AVENUE. THERE IS ALSO A GAS STATION AND A WAWA WITH STRIP STORES THAT HAVE SECONDARY ACCESS TO WEST OAKLAND AVENUE.
- THE CONTRACTOR SHALL TAKE ALL MEASURES TO MAINTAIN VEHICULAR AND PEDESTRIAN ACCESS TO THE APARTMENT COMPLEXES.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SIGNAGE, DRUMS AND BARRICADES, ETC., AS NECESSARY TO PROVIDE MAINTENANCE OF VEHICULAR AND PEDESTRIAN TRAFFIC.
- THE CONTRACTOR SHALL PREPARE A "SEQUENCE OF CONSTRUCTION" THAT MINIMIZES THE IMPACT TO THE APARTMENT COMPLEXES. THE "SEQUENCE OF CONSTRUCTION" SHALL BE PROVIDED TO THE ENGINEER, CHIEF OF POLICE AND FIRE CHIEF AT THE PRECONSTRUCTION MEETING FOR REVIEW, COMMENT AND APPROVAL PRIOR TO THE COMMENCEMENT OF ANY IMPROVEMENTS.
- THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE APARTMENT MANAGER ON A DAILY BASIS OR ON AN AS NEEDED BASIS, SO THEY CAN ADVISE THE RESIDENTS ACCORDINGLY.
- FAILURE ON THE CONTRACTOR'S PART TO COMPLY SHALL RESULT IN THE ISSUANCE OF A "STOP WORK" ORDER. SHOULD A "STOP WORK" BE ISSUED, THE CONTRACTOR SHALL INCUR ALL EXPENSES TO SECURE THE JOB SITE AND REMOBILIZATION COSTS WHEN AUTHORIZED BY THE ENGINEER TO RECOMMENCE.

**Driveway Apron Schedule**

BLOCK/LOT AND ADDRESS	EXISTING SLOPE	PROP. SLOPE
BLOCK 58, LOT 6 W. HOLLY AVENUE (SW)	5.21%	3.86%
BLOCK 58, LOT 6 W. HOLLY AVENUE (NE)	5.63%	4.4%
BLOCK 54, LOTS 13.01 & 13.02 23 W. OAKLAND AVENUE	2.86%	4.86%

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.).

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 MATERIALS ITEMS IN THE PROPOSAL.

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

SHOULD POLICE TRAFFIC DIRECTORS BE REQUIRED, THEIR SERVICES SHALL BE PAID FOR BY THE BOROUGH. AT NO COST TO THE CONTRACTOR. HOWEVER, THE CONTRACTOR MUST STILL PROVIDE AT HIS COST, MAINTENANCE AND PROTECTION OF TRAFFIC IN ACCORDANCE WITH THE SPECIFICATIONS. 24-HOUR ROAD CLOSINGS WILL NOT BE PERMITTED.

THE CONTRACTOR SHALL VERIFY ALL STRUCTURE INVERTS FOR ALL MANHOLE STRUCTURES PRIOR TO ORDERING. SHOP DRAWINGS SHALL BE SUBMITTED WITH INVERT ELEVATIONS (TO BE VERIFIED BY CONTRACTOR) SHOWN ON SHOP DRAWINGS FOR REVIEW AND APPROVED BEFORE ORDERING.

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

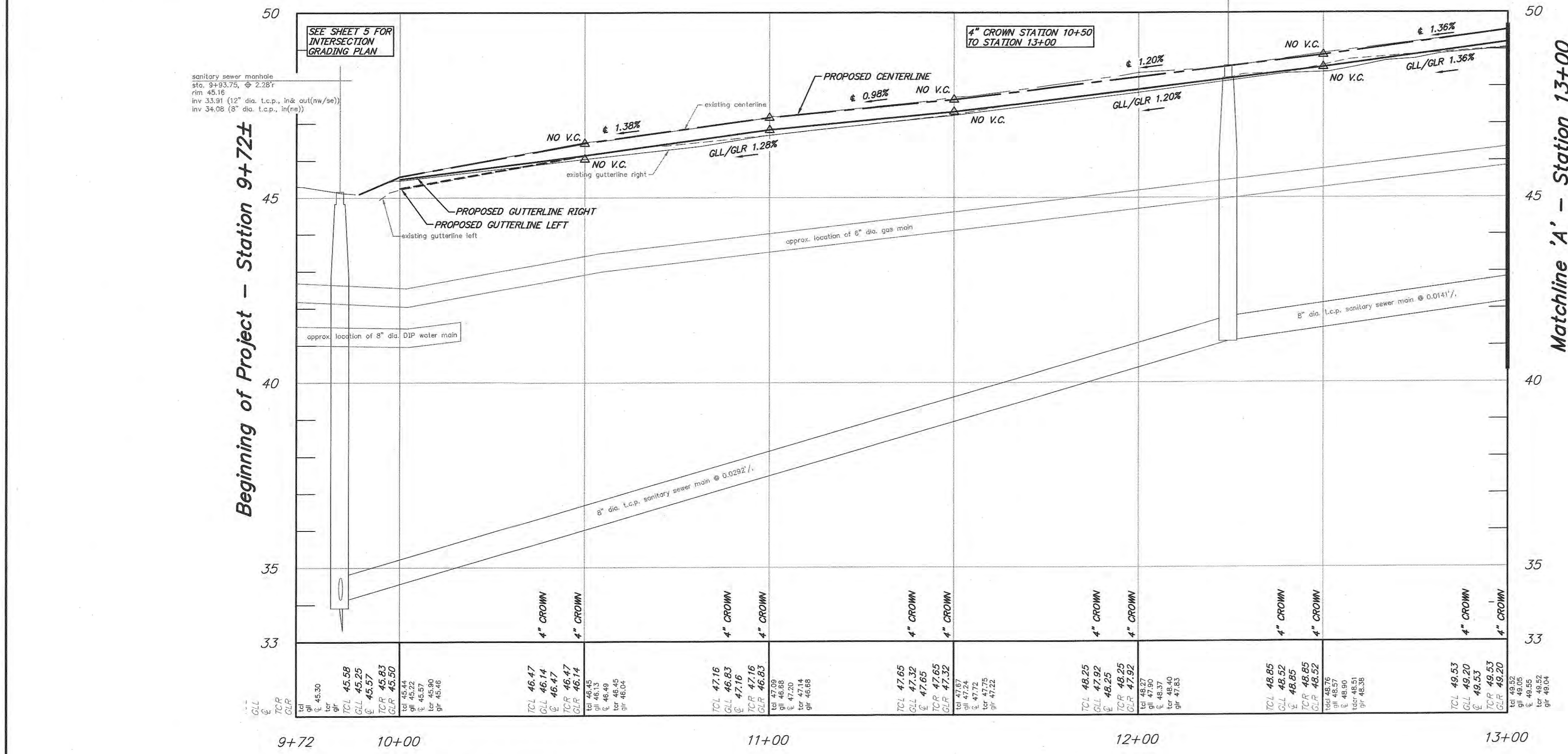
BENCHMARK FIND REBAR AT THE CORNER OF LOTS 6 & 7, BLOCK 58 ELEV. 52.48

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.

**No Specific Payment Items:**

ITEM NUMBER	DESCRIPTION	UNIT MEASURED	QUANTITY
A	SOIL EROSION AND SEDIMENT CONTROL	N.S.P.	N.S.P.
B	CLEANOUT PROTECTION BOX	UNIT	0
C	REMOVE BOLLARD	UNIT	1
D	REMOVE OVERLAP CONCRETE CURB AND GUTTER	L.F.	715
E	REMOVE CONCRETE CURB	L.F.	60
F	REMOVE CONCRETE SIDEWALK/ CURB RAMP/ CONCRETE AREA	S.Y.	100
G	REMOVE CONCRETE DRIVEWAY APRON/ SIDEWALK	S.Y.	80
H	REMOVE SIGN	UNIT	1
I	RESET SIGN	UNIT	6
J	RESET WATER VALVE BOX	UNIT	1
K	RESET WATER METER BOX	UNIT	0
L	RESET GAS VALVE BOX	UNIT	1
M	RESET SANITARY SEWER CLEANOUT/ SEWER VENT	UNIT	2
N	RECONSTRUCT ROOF DRAIN	UNIT	1
O	JOINT SEALER	N.S.P.	N.S.P.
P	CONCRETE SEALING	N.S.P.	N.S.P.
Q	WATERING	N.S.P.	N.S.P.
R	MAINTENANCE AND PROTECTION OF VEHICULAR AND PEDESTRIAN TRAFFIC	N.S.P.	N.S.P.
S	N.J.D.O.T. CIVIL RIGHTS SIGN	UNIT	1

Plan: W. Oakland Avenue  
scale: 1" = 20'



Profile: W. Oakland Avenue  
Horizontal Scale: 1"=20'  
Vertical Scale: 1"=2'

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 THE N.J.D.O.T. MUNICIPAL AID PROGRAM, FY2022.

**Construction Plan**

N.J.D.O.T. Municipal Aid Program, FY2022  
 Reconstruction of W. Oakland Avenue from Newton Ave.(CR 727) to the White Horse Pike(NJSH 30)

Borough of Oaklyn  
 Camden County, New Jersey

DATE: 02/03/2023 DRAWN BY: J.B. CHKD. BY: G.E. SCALE: 1"=20'  
 PROJECT No. 25-2590K1121 FIELD BOOK/PAGE: SHEET No. 2 OF 9

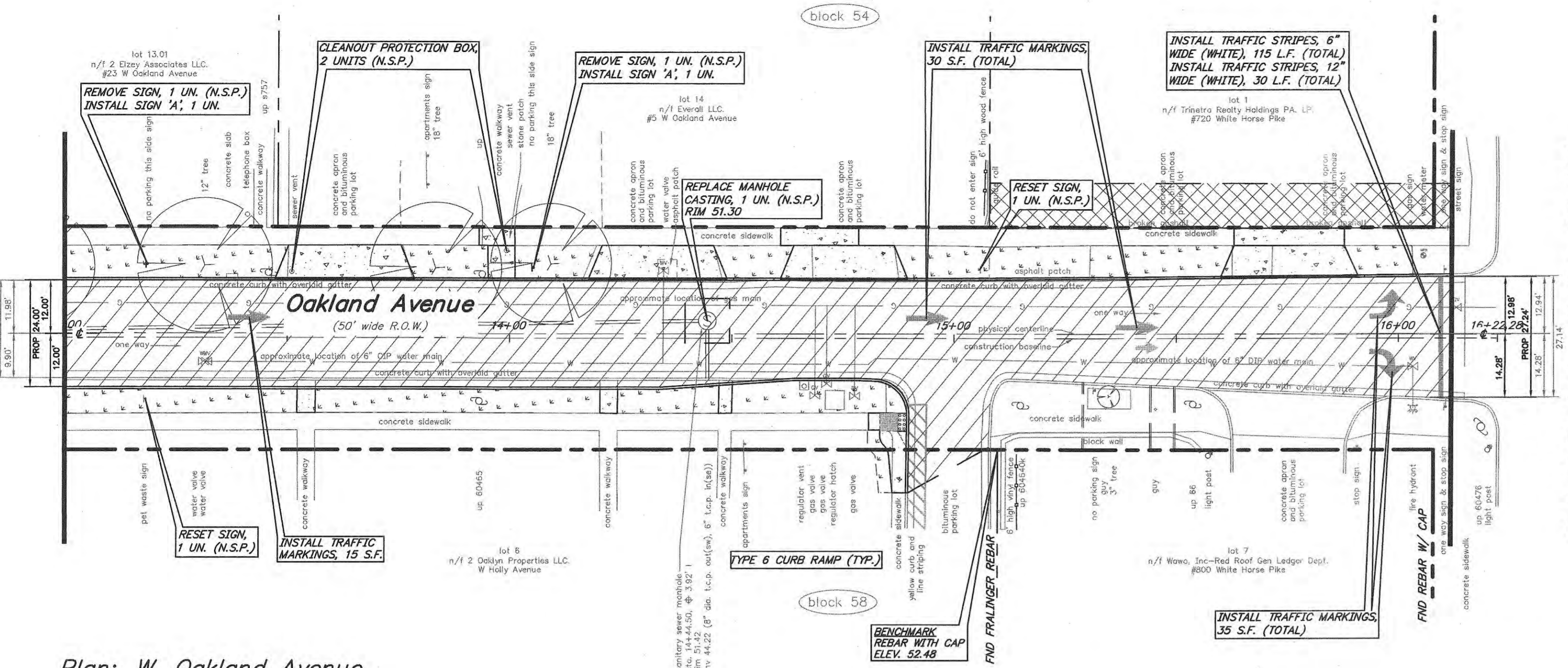
**GREGORY BLASE FUSCO**  
 PROFESSIONAL ENGINEER  
 NJPE No. 32853 PA.PE No. 036608-E  
 NJ PROFESSIONAL PLANNER No. 4076

**KEY ENGINEERS, INC.**  
 80 S. WHITE HORSE PIKE  
 BERLIN, NEW JERSEY 08009-2399  
 PHONE (856) 787-0111  
 FAX (856) 753-1091  
 www.keyengineers.com  
 CERTIFICATE OF AUTHORIZATION #24GA28041300

DATE: 2/3/23



Matchline 'A' - Station 13+00  
(See sheet 2 of 9)



End of Project - Station 16+12.5  
White Horse Pike  
(N.J.S.H. 30)  
(50' wide R.O.W.)

**Legend:**

- CONCRETE SIDEWALK, 4" THICK, CLASS 'B', WITH SOIL AGGREGATE SUBBASE, 4" THICK OR
- CONCRETE DRIVEWAY APRON/ SIDEWALK, 6" THICK, CLASS 'B', WITH DENSE GRADED AGGREGATE SUBBASE, 4" THICK
- EXCAVATION, UNCLASSIFIED PAVEMENT REINFORCING GEGRID DENSE GRADED AGGREGATE, 6" THICK HOT MIX ASPHALT, 2.5M64 BASE COURSE, 4" THICK HOT MIX ASPHALT, 9.5M64 SURFACE COURSE, 2" THICK
- EXCAVATION, UNCLASSIFIED PAVEMENT REINFORCING GEGRID (DRIVEWAY) DENSE GRADED AGGREGATE, 6" THICK (DRIVEWAY) HOT MIX ASPHALT, 2.5M64 BASE COURSE, 4" THICK (DRIVEWAY) HOT MIX ASPHALT, 9.5M64 SURFACE COURSE, 2" THICK (DRIVEWAY)
- TOPSOIL, 5" THICK AND SOODING
- 6"x8"x18" CONCRETE CURB, CLASS 'B', WITH SELECT BACKFILL, DESIGNATION I-11 AND DENSE GRADED AGGREGATE SUBBASE, 4" THICK

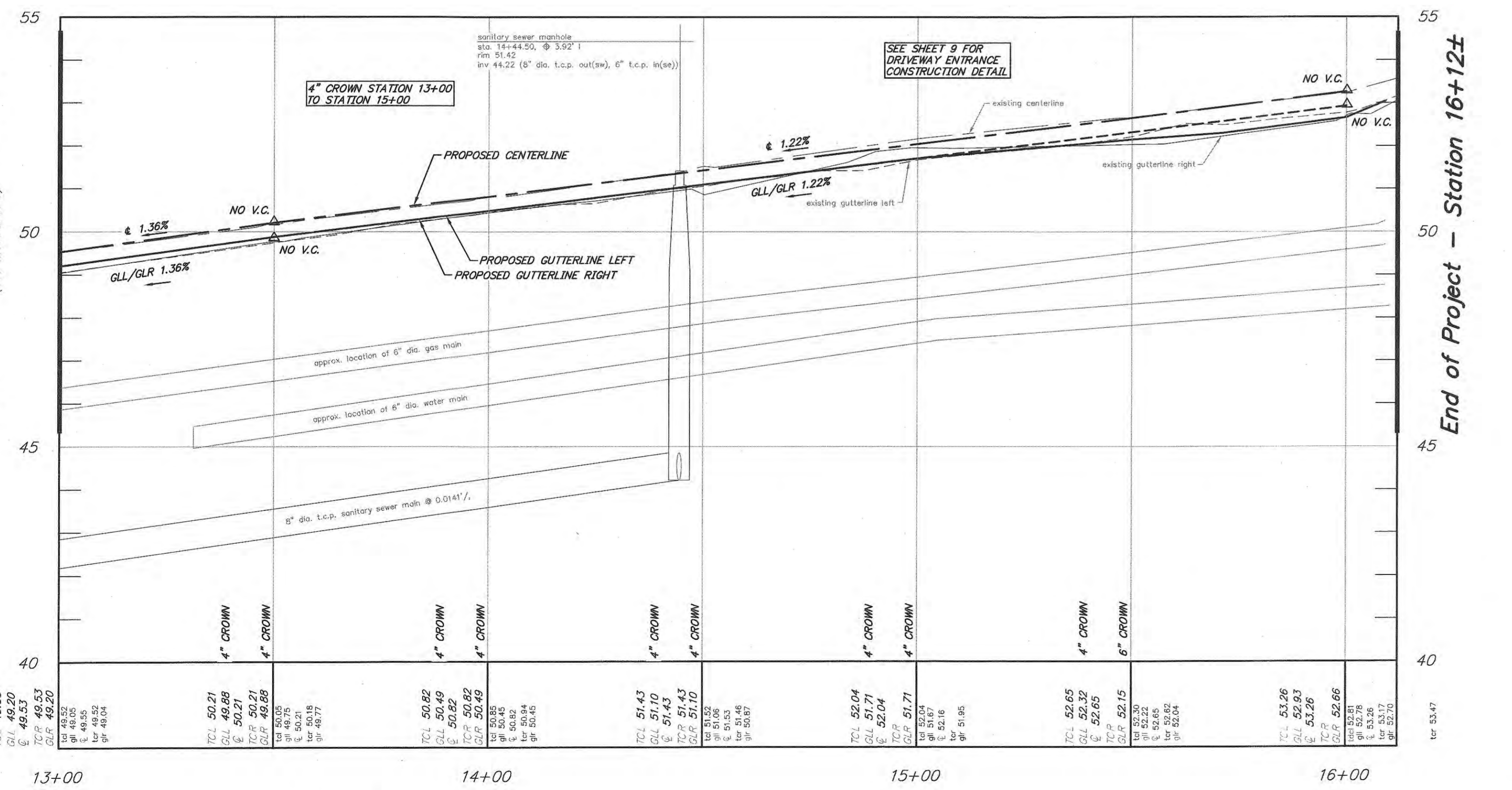
**List of Quantities:**

Base Bid: Reconstruction of W. Oakland Avenue from Newton Avenue (C.R. 727) to the White Horse Pike (N.J.S.H. 30)  
(PARTIALLY FUNDED THROUGH THE NJDOT MUNICIPAL AID PROGRAM, FY2022)

ITEM NUMBER	DESCRIPTION	UNIT MEASURED	QUANTITY
1	SAWCUT BITUMINOUS PAVEMENT	L.F.	204
2	SAWCUT CONCRETE PAVEMENT	L.F.	0
3	MILL PAVEMENT, 2" THICK	S.Y.	0
4	REMOVE CONCRETE DRIVEWAY	S.Y.	0
5	EXCAVATION, UNCLASSIFIED	C.Y.	344
6	PARCE MANHOLE STRUCTURE	UNIT	1
7	6"x8"x18" CONCRETE CURB, CLASS 'B' WITH SELECT BACKFILL, DESIGNATION I-11 AND DENSE GRADED AGGREGATE SUBBASE, 4" THICK	L.F.	580
8	9"x18" CONCRETE CURB, CLASS 'B' WITH SELECT BACKFILL, DESIGNATION I-11 AND DENSE GRADED AGGREGATE SUBBASE, 4" THICK	L.F.	0
9	CONCRETE ROCKER GUTTER, 8" THICK, CLASS 'V' W/ WELDED WIRE MESH 6"x6" @ 4"x11" @ 4", DENSE GRADED AGGREGATE SUBBASE, 6" THICK AND TRENCH FILTER FABRIC	S.Y.	0
10	CONCRETE SIDEWALK AND CURB RAMP, 4" THICK, CLASS 'B', WITH SOIL AGGREGATE SUBBASE, 4" THICK	S.Y.	30
11	CONCRETE DRIVEWAY APRON/ SIDEWALK, 6" THICK, CLASS 'V', WITH DENSE AGGREGATE SUBBASE, 4" THICK	S.Y.	120
12	DETECTABLE WARNING SURFACE	S.F.	8
13	CONCRETE ROADWAY, 8" THICK, CLASS 'V'	S.Y.	0
14	PAVEMENT REINFORCING GEGRID (DRIVEWAY)	S.Y.	116
15	DENSE GRADED AGGREGATE SUBBASE, 4" THICK (DRIVEWAY)	S.Y.	116
16	HOT MIX ASPHALT, 2.5M64 BASE COURSE, 3" THICK (DRIVEWAY)	S.Y.	116
17	HOT MIX ASPHALT, 9.5M64 SURFACE COURSE, 2" THICK (DRIVEWAY)	S.Y.	116
18	PAVEMENT REINFORCING GEGRID	S.Y.	960
19	DENSE GRADED AGGREGATE SUBBASE, 6" THICK	S.Y.	960
20	HOT MIX ASPHALT, 2.5M64 BASE COURSE, 4" THICK	S.Y.	960
21	HOT MIX ASPHALT, 9.5M64 SURFACE COURSE, 2" THICK	S.Y.	960
22	SIGN	UNIT	2
23	TOPSOIL, 5" THICK AND SOODING	S.Y.	290
24	PAINT CURB YELLOW	L.F.	20
25	TRAFFIC STRIPES, 6" WIDE	L.F.	115
26	TRAFFIC STRIPES, 12" WIDE	L.F.	30
27	TRAFFIC MARKINGS	S.F.	80
28	ASPHALT PRICE ADJUSTMENT	L.S.	L.S.
29	FUEL PRICE ADJUSTMENT	L.S.	L.S.
30	REMOVE 25"-36" DIA. TREE	UNIT	0

Plan: W. Oakland Avenue  
scale: 1" = 20'

Matchline 'A' - Station 13+00  
(See sheet 2 of 9)



End of Project - Station 16+12.5

Profile: W. Oakland Avenue  
Horizontal Scale: 1"=20'  
Vertical Scale: 1"=2'

- CONCRETE IMPROVEMENTS:**  
REMOVE OVERLAIN CONCRETE CURB & GUTTER 580 L.F. (N.S.P.)  
REMOVE CONCRETE SIDEWALK/ CURB RAMP/ CONCRETE AREA, 30 S.Y. (N.S.P.)  
REMOVE CONCRETE DRIVEWAY APRON/ SIDEWALK, 120 S.Y. (N.S.P.)  
CONSTRUCT 6"x8"x18" CONCRETE CURB, CLASS 'B', WITH SELECT BACKFILL, DESIGNATION I-11 AND DENSE GRADED AGGREGATE SUBBASE, 4" THICK, 580 L.F.  
CONSTRUCT CONCRETE SIDEWALK AND CURB RAMP, 4" THICK CLASS 'B', WITH SOIL AGGREGATE SUBBASE, 4" THICK, 30 S.Y.  
CONSTRUCT CONCRETE DRIVEWAY APRON/ SIDEWALK, 6" THICK, CLASS 'B' WITH SOIL AGGREGATE SUBBASE, 4" THICK, 120 S.Y.
- BITUMINOUS RESTORATION:**  
EXCAVATION, UNCLASSIFIED, 320 C.Y.  
SAWCUT BITUMINOUS PAVEMENT, 100 L.F.  
PAVEMENT REINFORCING GEGRID, 960 S.Y.  
DENSE GRADED AGGREGATE, 6" THICK, 960 S.Y.  
HOT MIX ASPHALT, 2.5M64 BASE COURSE, 4" THICK, 960 S.Y.  
HOT MIX ASPHALT, 9.5M64 SURFACE COURSE, 2" THICK, 960 S.Y.
- TOPSOIL, 5" THICK AND SOODING, 290 S.Y.**
- RESET WATER VALVE BOX, 2 UNIT (N.S.P.)**  
**RESET WATER METER BOX, 1 UNIT (N.S.P.)**  
**RESET SANITARY SEWER CLEANOUT/SEWER VENT, 2 UNITS (N.S.P.)**

**NOTES:**

- WEST OAKLAND AVENUE IS A ONE-WAY STREET, FROM NEWTON AVENUE (C.R. 727) TO THE WHITE HORSE PIKE (N.J.S.H. 30).
- THERE ARE TWO (2) APARTMENT COMPLEXES WITHIN THE PROJECT LIMITS KNOWN AS 'OAKLAND GARDENS' AND 'THE SAVOY APARTMENTS' WHICH ARE SERVICED BY WEST OAKLAND AVENUE. THERE IS ALSO A GAS STATION AND A WAWA WITH STRIP STORES THAT HAVE SECONDARY ACCESS TO WEST OAKLAND AVENUE.
- THE CONTRACTOR SHALL TAKE ALL MEASURES TO MAINTAIN VEHICULAR AND PEDESTRIAN ACCESS TO THE APARTMENT COMPLEXES.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SIGNAGE, DRUMS AND BARRIAGES, ETC., AS NECESSARY TO PROVIDE MAINTENANCE OF VEHICULAR AND PEDESTRIAN TRAFFIC.
- THE CONTRACTOR SHALL PREPARE A "SEQUENCE OF CONSTRUCTION" THAT MINIMIZES THE IMPACT TO THE APARTMENT COMPLEXES. THE "SEQUENCE OF CONSTRUCTION" SHALL BE PROVIDED TO THE ENGINEER, CHIEF OF POLICE AND FIRE CHIEF AT THE PRECONSTRUCTION MEETING FOR REVIEW, COMMENT AND APPROVAL, PRIOR TO THE COMMENCEMENT OF ANY IMPROVEMENTS.
- THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE APARTMENT MANAGER ON A DAILY BASIS, OR ON AN AS NEEDED BASIS, SO THEY CAN ADVISE THE RESIDENTS ACCORDINGLY.
- FAILURE ON THE CONTRACTOR'S PART, TO COMPLY, SHALL RESULT IN THE ISSUANCE OF A "STOP WORK" ORDER. SHOULD A "STOP WORK" BE ISSUED, THE CONTRACTOR SHALL INCUR COSTS TO SECURE THE JOB SITE AND REMOBILIZATION COSTS WHEN AUTHORIZED BY THE ENGINEER TO RECOMMENCE.

**Driveway Apron Schedule**

BLOCK/LOT AND ADDRESS	EXISTING SLOPE	PROP. SLOPE
BLOCK 54, LOT 14 5 W. OAKLAND AVE. (SW)	8.38%	6.1%
BLOCK 54, LOT 14 5 W. OAKLAND AVE. (CENTER)	7.34%	5.4%
BLOCK 54, LOT 14 5 W. OAKLAND AVE. (NE)	5.93%	6.1%
BLOCK 54, LOT 1 720 WHITE HORSE PIKE	8.37%	9.7%

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.).

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.

SHOULD POLICE TRAFFIC DIRECTORS BE REQUIRED, THEIR SERVICES SHALL BE PAID FOR BY THE BOROUGH, AT NO COST TO THE CONTRACTOR. HOWEVER, THE CONTRACTOR MUST STILL PROVIDE, AT HIS COST, MAINTENANCE AND PROTECTION OF TRAFFIC IN ACCORDANCE WITH THE SPECIFICATIONS. 24-HOUR ROAD CLOSINGS WILL NOT BE PERMITTED.

THE CONTRACTOR SHALL VERIFY ALL STRUCTURE INVERTS FOR ALL MANHOLE STRUCTURES PRIOR TO ORDERING SHOP DRAWINGS. SHOP DRAWINGS SHALL BE SUBMITTED WITH INVERT ELEVATIONS (TO BE VERIFIED BY CONTRACTOR) SHOWN ON SHOP DRAWINGS FOR REVIEW AND APPROVED BEFORE ORDERING.

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.

BENCHMARK  
END FRALLINGER REBAR AT THE  
CORNER OF LOTS 6 & 7, BLOCK 58  
ELEV. 52.48

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.

**No Specific Payment Items:**

ITEM NUMBER	DESCRIPTION	UNIT MEASURED	QUANTITY
A	SOIL EROSION AND SEDIMENT CONTROL	N.S.P.	N.S.P.
B	CLEANOUT PROTECTION BOX	UNIT	2
C	REMOVE BOLLARD	UNIT	0
D	REMOVE OVERLAIN CONCRETE CURB AND GUTTER	L.F.	580
E	REMOVE CONCRETE CURB	L.F.	0
F	REMOVE CONCRETE SIDEWALK/ CURB RAMP/ CONCRETE AREA	S.Y.	30
G	REMOVE CONCRETE DRIVEWAY APRON/ SIDEWALK	S.Y.	120
H	REMOVE SIGN	UNIT	2
I	RESET SIGN	UNIT	2
J	RESET WATER VALVE BOX	UNIT	2
K	RESET WATER METER BOX	UNIT	1
L	RESET GAS VALVE BOX	UNIT	0
M	RESET SANITARY SEWER CLEANOUT/ SEWER VENT	UNIT	2
N	RECONSTRUCT ROOF DRAIN	UNIT	0
O	JOINT SEALER	N.S.P.	N.S.P.
P	CONCRETE SEALING	N.S.P.	N.S.P.
Q	WATERING	N.S.P.	N.S.P.
R	MAINTENANCE AND PROTECTION OF VEHICULAR AND PEDESTRIAN TRAFFIC	N.S.P.	N.S.P.
S	N.J.D.O.T. CIVIL RIGHTS SIGN	UNIT	0

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 THE N.J.D.O.T. MUNICIPAL AID PROGRAM, FY2022.

REV. DATE: DESCRIPTION DRWN. CHKD.

**Construction Plan**

N.J.D.O.T. Municipal Aid Program, FY2022  
Reconstruction of W. Oakland Avenue from  
Newton Ave.(CR 727) to the White Horse Pike(NJSH 30)

Borough of Oaklyn  
Camden County, New Jersey

DATE: 02/03/2023 DRAWN BY: J.B. CHKD. BY: G.E. SCALE: 1"=20'  
PROJECT No. 25-2590K1121 FIELD BOOK/PAGE: SHEET No. 3 OF 9

**GREGORY BLASE FUSCO**  
PROFESSIONAL ENGINEER

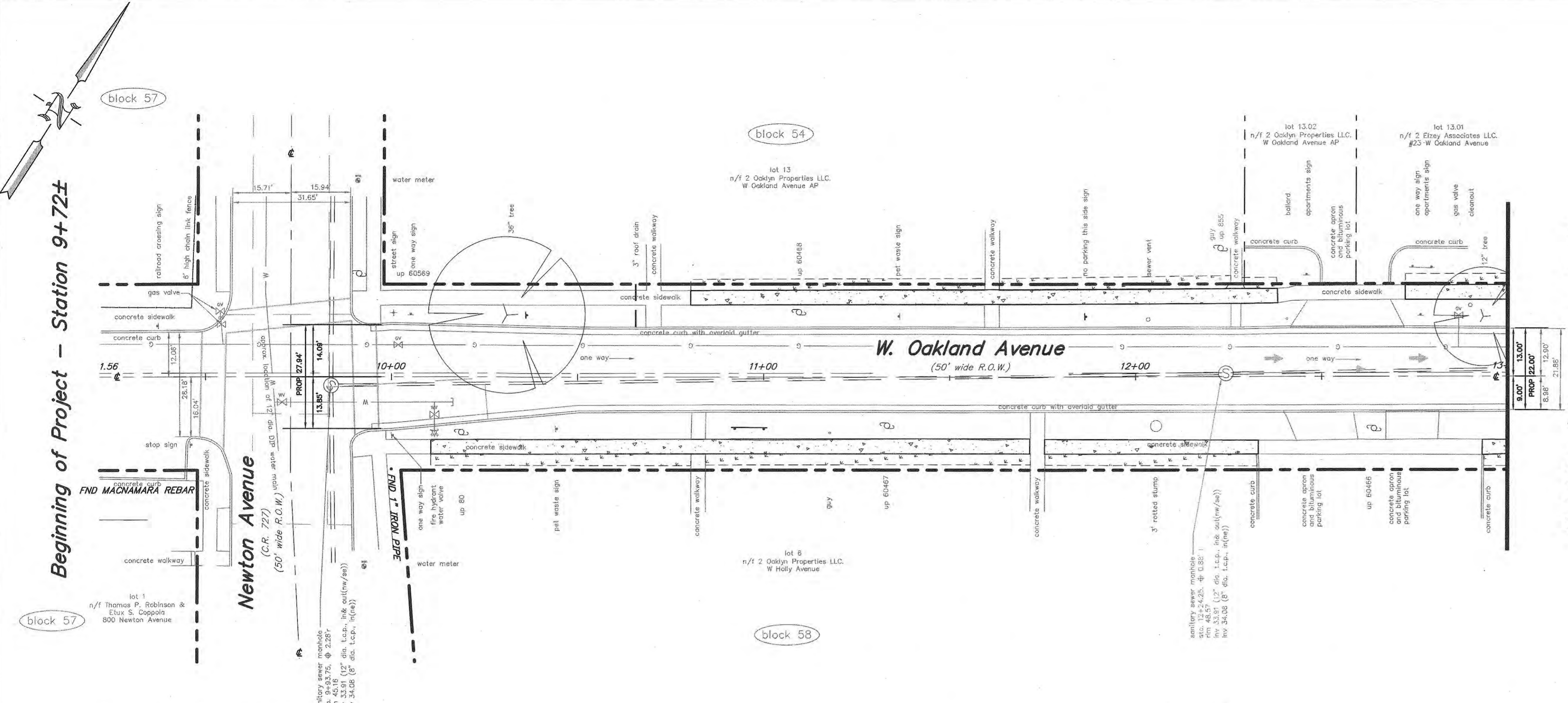
NJPE No. 32853 P.A.P.E. No. 036608-E  
NJ PROFESSIONAL PLANNER No. 4076

KEY ENGINEERS, INC.

80 S. WHITE HORSE PIKE  
BERLIN, NEW JERSEY 08009-2399  
CERTIFICATE OF AUTHORIZATION #24GA2804300

DATE: 2/3/23





- Legend:**
- CONCRETE SIDEWALK, 4" THICK, CLASS 'B', WITH SOIL AGGREGATE SUBBASE, 4" THICK OR CONCRETE DRIVEWAY APRON/ SIDEWALK, 6" THICK, CLASS 'B', WITH DENSE GRADED AGGREGATE SUBBASE, 4" THICK
  - TOPSOIL, 5" THICK AND SODDING
- CONCRETE IMPROVEMENTS:**  
REMOVE CONCRETE SIDEWALK/ CURB RAMP/ CONCRETE AREA . 180 S.Y. (N.S.P.)  
CONSTRUCT CONCRETE SIDEWALK AND CURB RAMP, 4" THICK CLASS 'B', WITH SOIL AGGREGATE SUBBASE, 4" THICK, 180 S.Y.
- TOPSOIL, 5" THICK AND SODDING, 150 S.Y.

**List of Quantities:**  
Base Bid, Alternate No 1: Remaining Concrete Sidewalk Replacement  
(PARTIALLY FUNDED THROUGH THE N.J.DOT MUNICIPAL AID PROGRAM, FY2022)

**Payment Items:**

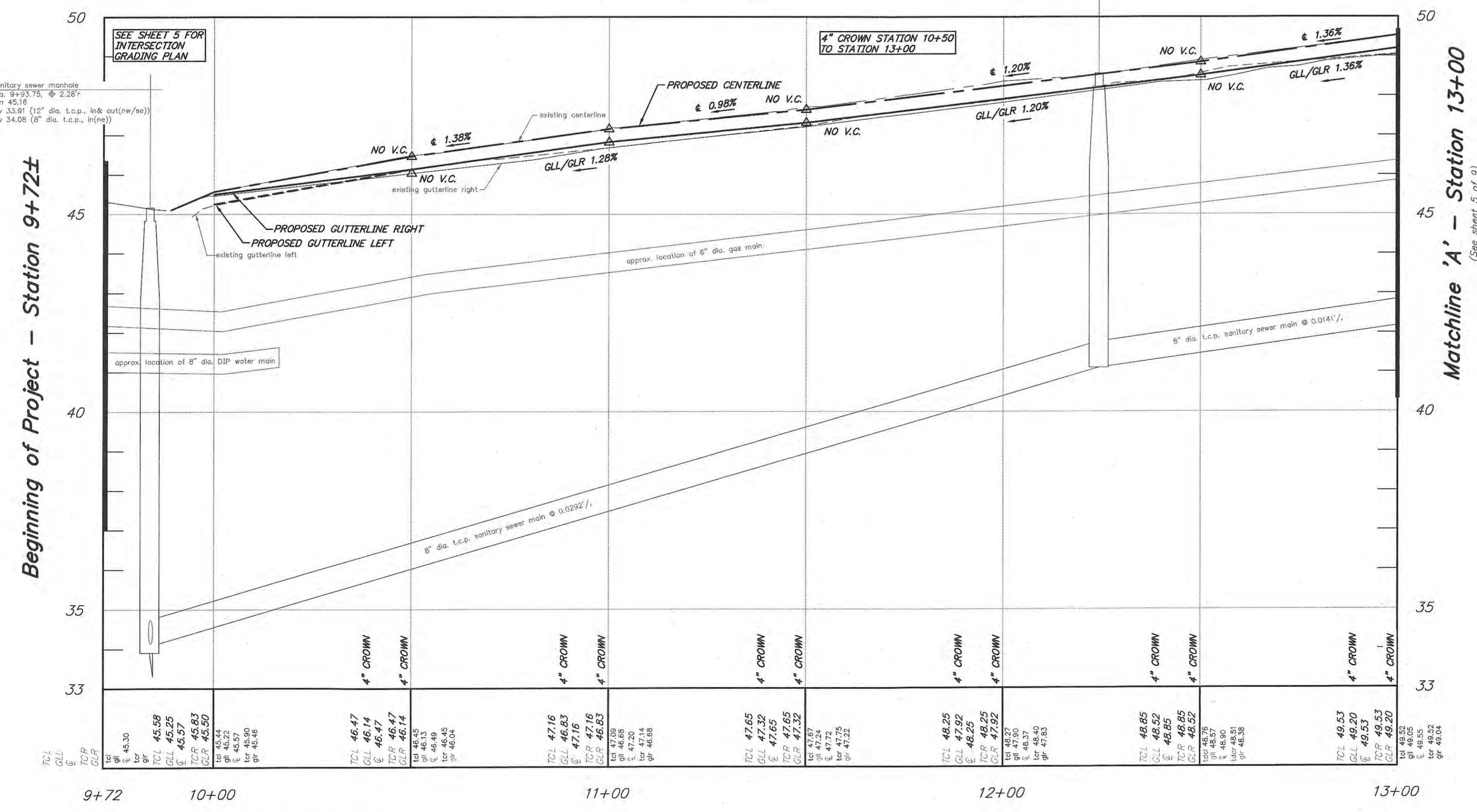
ITEM NUMBER	DESCRIPTION	UNIT MEASURED	QUANTITY
1	CONCRETE SIDEWALK AND CURB RAMP, 4" THICK, CLASS 'B', WITH SOIL AGGREGATE SUBBASE, 4" THICK	S.Y.	180
2	CONCRETE DRIVEWAY APRON/ SIDEWALK, 6" THICK, CLASS 'B', WITH DENSE AGGREGATE SUBBASE, 4" THICK	S.Y.	0
3	TOPSOIL, 5" THICK AND SODDING	S.Y.	150

**No Specific Payment Items:**

ITEM NUMBER	DESCRIPTION	UNIT MEASURED	QUANTITY
A	REMOVE CONCRETE SIDEWALK/ CURB RAMP/ CONCRETE AREA	S.Y.	180
B	REMOVE CONCRETE DRIVEWAY APRON/ SIDEWALK	S.Y.	0

- NOTES:**
- WEST OAKLAND AVENUE IS A ONE-WAY STREET, FROM NEWTON AVENUE (C.R. 727) TO THE WHITE HORSE PIKE (N.J.S.H. 30).
  - THERE ARE TWO (2) APARTMENT COMPLEXES WITHIN THE PROJECT LIMITS KNOWN AS "OAKLAND GARDENS" AND "THE SAVOY APARTMENTS" WHICH ARE SERVICED BY WEST OAKLAND AVENUE. THERE IS ALSO A GAS STATION AND A WAWA WITH STRIP STORES THAT HAVE SECONDARY ACCESS TO WEST OAKLAND AVENUE.
  - THE CONTRACTOR SHALL TAKE ALL MEASURES TO MAINTAIN VEHICULAR AND PEDESTRIAN ACCESS TO THE APARTMENT COMPLEXES.
  - THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SIGNAGE, DRUMS AND BARRICADES, ETC., AS NECESSARY TO PROVIDE MAINTENANCE OF VEHICULAR AND PEDESTRIAN TRAFFIC.
  - THE CONTRACTOR SHALL PREPARE A "SEQUENCE OF CONSTRUCTION" THAT MINIMIZES THE IMPACT TO THE APARTMENT COMPLEXES. THE "SEQUENCE OF CONSTRUCTION" SHALL BE PROVIDED TO THE ENGINEER, CHIEF OF POLICE AND FIRE CHIEF AT THE PRECONSTRUCTION MEETING, FOR REVIEW, COMMENT AND APPROVAL, PRIOR TO THE COMMENCEMENT OF ANY IMPROVEMENTS.
  - THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE APARTMENT MANAGER ON A DAILY BASIS, OR ON AN AS NEEDED BASIS, SO THEY CAN ADVISE THE RESIDENTS ACCORDINGLY.
  - FAILURE ON THE CONTRACTOR'S PART, TO COMPLY, SHALL RESULT IN THE ISSUANCE OF A "STOP WORK" ORDER. SHOULD A "STOP WORK" BE ISSUED, THE CONTRACTOR SHALL INCUR ALL EXPENSES TO SECURE THE JOB SITE AND REHABILITATION COSTS WHEN AUTHORIZED BY THE ENGINEER TO RECOMMENCE.

Plan: W. Oakland Avenue  
Scale: 1" = 20'



Profile: W. Oakland Avenue  
Horizontal Scale: 1"=20'  
Vertical Scale: 1"=2'

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.).

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

SHOULD POLICE TRAFFIC DIRECTORS BE REQUIRED, THEIR SERVICES SHALL BE PAID FOR BY THE BOROUGH, AT NO COST TO THE CONTRACTOR. HOWEVER, THE CONTRACTOR MUST STILL PROVIDE, AT HIS COST, MAINTENANCE AND PROTECTION OF TRAFFIC IN ACCORDANCE WITH THE SPECIFICATIONS. 24-HOUR ROAD CLOSINGS WILL NOT BE PERMITTED.

THE CONTRACTOR SHALL VERIFY ALL STRUCTURE INVERTS FOR ALL MANHOLE STRUCTURES PRIOR TO ORDERING. SHOP DRAWINGS SHALL BE SUBMITTED WITH INVERT ELEVATIONS (TO BE VERIFIED BY CONTRACTOR) SHOWN ON SHOP DRAWINGS FOR REVIEW AND APPROVED BEFORE ORDERING.

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

REV.	DATE	DESCRIPTION	DRWN.	CHKD.
<b>Construction Plan, Alt. No. 1</b>				
N.J.D.O.T. Municipal Aid Program, FY2022 Reconstruction of W. Oakland Avenue from Newton Ave.(CR 727) to the White Horse Pike(NJSH 30)				
Borough of Oaklyn Camden County, New Jersey				
DATE: 02/03/2023	DRAWN BY: J.B.	CHKD. BY: G.E.	SCALE: 1"=20'	
PROJECT No. 25-2590K1121	FIELD BOOK/PAGE:		SHEET No. 4 OF 9	
<b>GREGORY BLASE FUSCO</b> PROFESSIONAL ENGINEER				
N.J.P.E. No. 32853		P.A.P.E. No. 036608-E NJ PROFESSIONAL PLANNER No. 4076		
80 S. WHITE HORSE PIKE BERLIN, NEW JERSEY 08009-2399 CERTIFICATE OF AUTHORIZATION #24GA28041300 phone: (609) 767-6111 fax: (609) 753-1091 www.keyengineers.com				
				DATE: 2/3/23


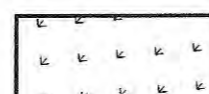
CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE DEPARTMENT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2019 EDITION, WHICH IS INCORPORATED HEREIN BY REFERENCE, AS AMENDED AND SUPPLEMENTED, AND THE DEPARTMENT'S SUPPLEMENTARY SPECIFICATIONS FOR STATE AID PROJECTS, 2019 EDITION, WHICH IS 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 THE N.J.D.O.T. MUNICIPAL AID PROGRAM, FY2022.

BENCHMARK: FND FRALINGER REBAR AT THE CORNER OF LOTS 6 & 7, BLOCK 58 ELEV. 52.48

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.



**Legend:**

-  CONCRETE SIDEWALK, 4" THICK, CLASS 'B', WITH SOIL AGGREGATE SUBBASE, 4" THICK OR CONCRETE DRIVEWAY APRON/ SIDEWALK, 6" THICK, CLASS 'B', WITH DENSE GRADED AGGREGATE SUBBASE, 4" THICK
-  TOPSOIL, 5" THICK AND SODDING

**CONCRETE IMPROVEMENTS:**  
 REMOVE CONCRETE SIDEWALK/ CURB RAMP/ CONCRETE AREA, 165 S.Y. (N.S.P.)  
 REMOVE CONCRETE DRIVEWAY APRON/ SIDEWALK, 30 S.Y. (N.S.P.)  
 CONSTRUCT CONCRETE SIDEWALK AND CURB RAMP, 4" THICK CLASS 'B', WITH SOIL AGGREGATE SUBBASE, 4" THICK, 165 S.Y.  
 CONSTRUCT CONCRETE DRIVEWAY APRON/ SIDEWALK, 6" THICK, CLASS 'B' WITH SOIL AGGREGATE SUBBASE, 4" THICK, 30 S.Y.

TOPSOIL, 5" THICK AND SODDING, 100 S.Y.

**List of Quantities:**

Base Bid, Alternate No 1: Remaining Concrete Sidewalk Replacement  
 (PARTIALLY FUNDED THROUGH THE NJDOT MUNICIPAL AID PROGRAM, FY2022)

Payment Items:

ITEM NUMBER	DESCRIPTION	UNIT MEASURED	QUANTITY
1	CONCRETE SIDEWALK AND CURB RAMP, 4" THICK, CLASS 'B', WITH SOIL AGGREGATE SUBBASE, 4" THICK	S.Y.	165
2	CONCRETE DRIVEWAY APRON/ SIDEWALK, 6" THICK, CLASS 'B', WITH DENSE AGGREGATE SUBBASE, 4" THICK	S.Y.	30
3	TOPSOIL, 5" THICK AND SODDING	S.Y.	100

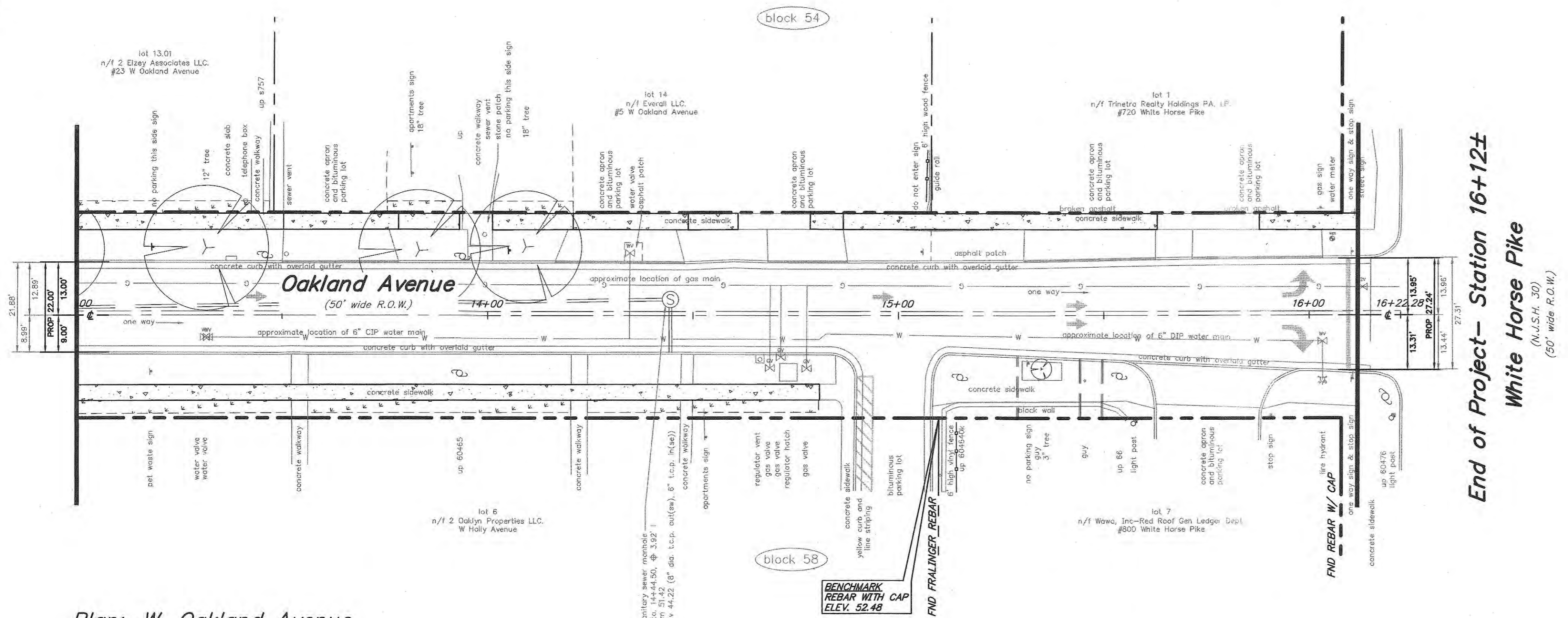
No Specific Payment Items:

ITEM NUMBER	DESCRIPTION	UNIT MEASURED	QUANTITY
A	REMOVE CONCRETE SIDEWALK/ CURB RAMP/ CONCRETE AREA	S.Y.	165
B	REMOVE CONCRETE DRIVEWAY APRON/ SIDEWALK	S.Y.	30

**NOTES:**

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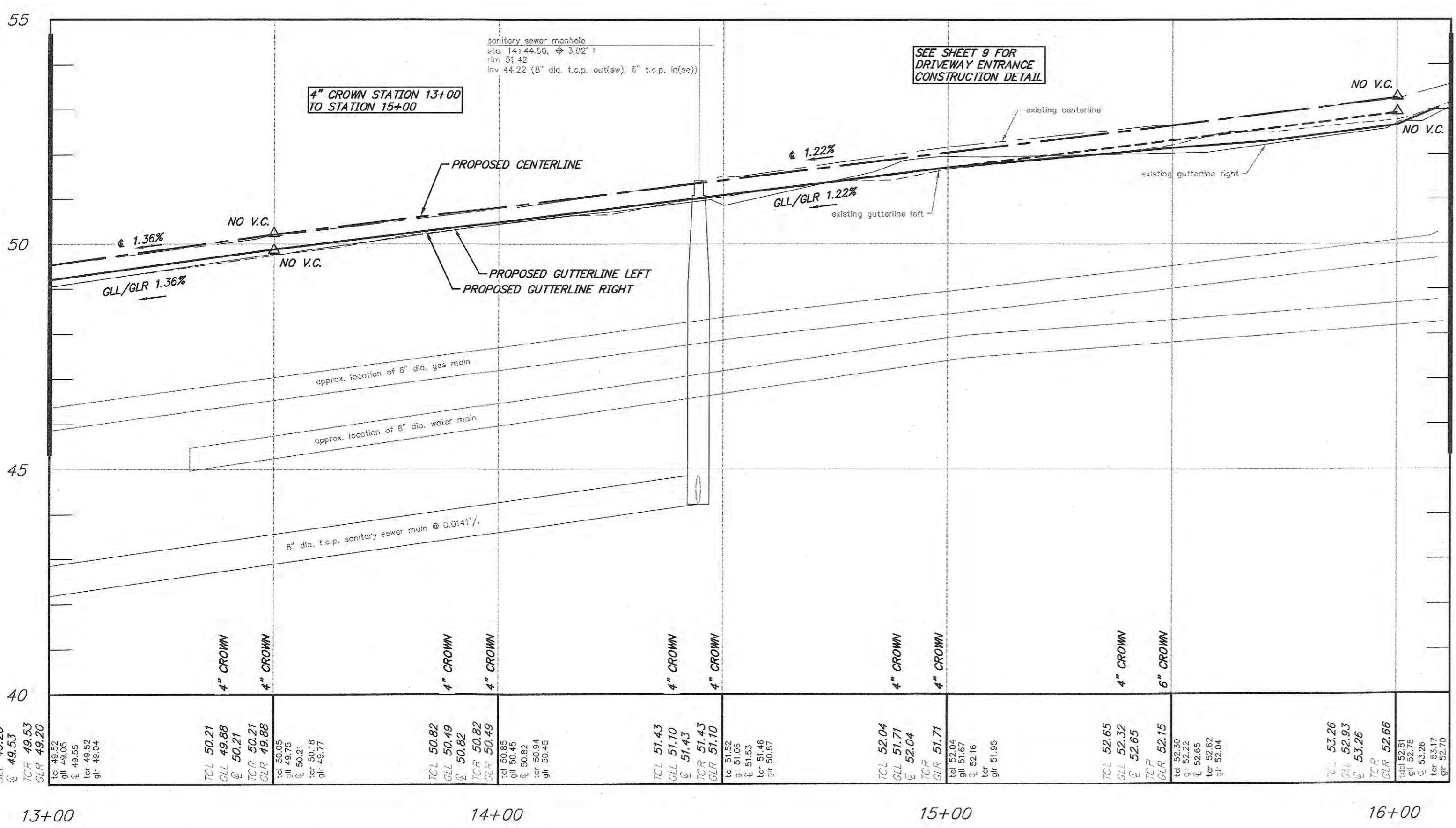
Matchline 'A' - Station 13+00  
 (See sheet 4 of 9)



Plan: W. Oakland Avenue

Scale: 1" = 20'

Matchline 'A' - Station 13+00  
 (See sheet 4 of 9)



Profile: W. Oakland Avenue

Horizontal Scale: 1"=20'  
 Vertical Scale: 1"=2'

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 THE N.J.D.O.T. MUNICIPAL AID PROGRAM, FY2022.

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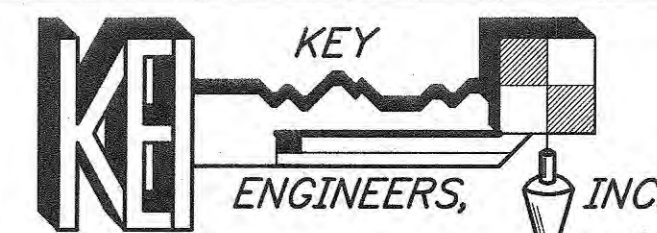
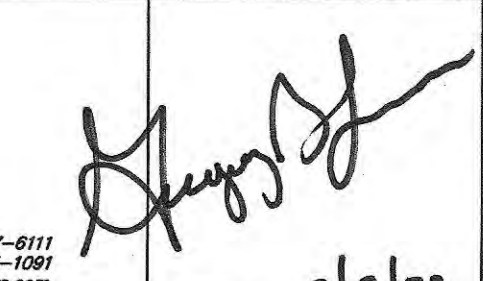
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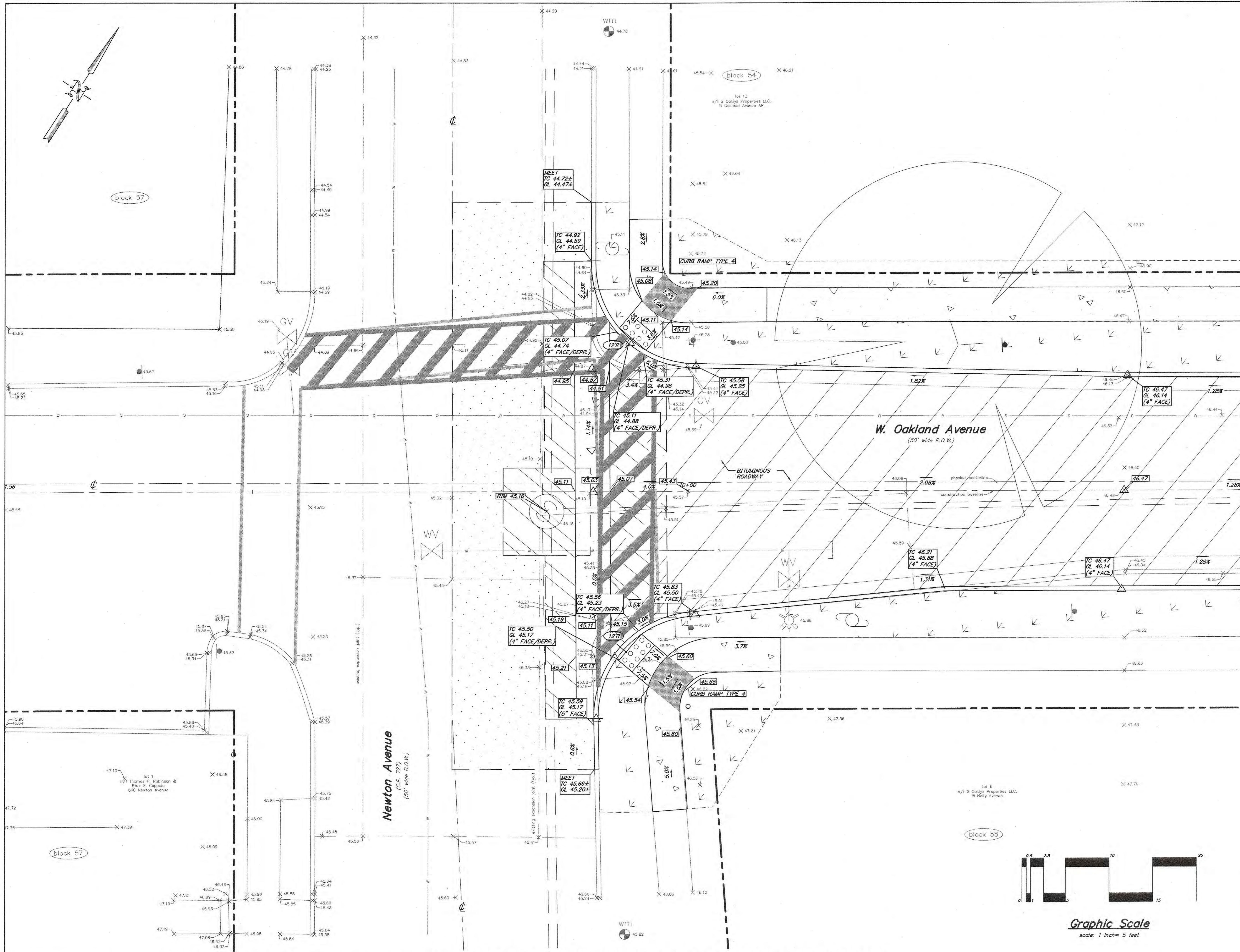
ALL CURB RAMPS CONSTRUCTED SHALL MEET THE "PROPOSED ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY" (P.R.O.W.A.G.), DATED JULY 26, 2011.

BENCHMARK  
 FND FRALINGER REBAR AT THE CORNER OF LOTS 6 & 7, BLOCK 58 ELEV. 52.48

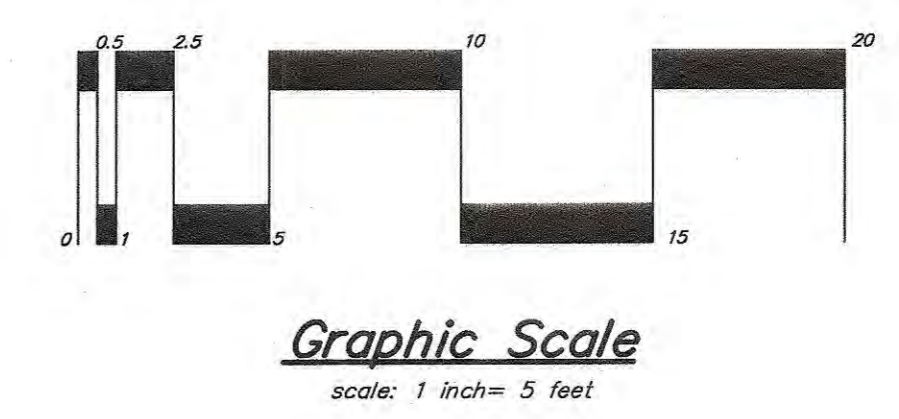
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REV.	DATE	DESCRIPTION	DRWN.	CHKD.
<b>Construction Plan, Alt. No. 1</b>				
N.J.D.O.T. Municipal Aid Program, FY2022 Reconstruction of W. Oakland Avenue from Newton Ave.(CR 727) to the White Horse Pike(NJSH 30)				
Borough of Oaklyn Camden County, New Jersey				
DATE: 02/03/2023    DRAWN BY: J.B.    CHKD. BY: G.E.    SCALE: 1"=20'				
PROJECT No. 25-2590K1121    FIELD BOOK/PAGE:    SHEET No. 3 OF 9				
<b>GREGORY BLASE FUSCO</b> PROFESSIONAL ENGINEER				
NJPE No. 32853    P.A.P.E No. 036608-E NJ PROFESSIONAL PLANNER No. 4076				
				
80 S. WHITE HORSE PIKE BERLIN, NEW JERSEY 08009-2399 CERTIFICATE OF AUTHORIZATION #24GA28041300			DATE: 2/3/23	





- Legend:**
- CONCRETE SIDEWALK, 4" THICK, CLASS 'B', WITH SOIL AGGREGATE SUBBASE, 4" THICK OR CONCRETE DRIVEWAY APRON, SIDEWALK, 6" THICK, CLASS 'B', WITH DENSE GRADED AGGREGATE SUBBASE, 4" THICK
  - REMOVE 8" THICK CONCRETE BASE DENSE GRADED AGGREGATE, 6" THICK HOT MIX ASPHALT, 25M64 BASE COURSE, 4" THICK HOT MIX ASPHALT, 9.5M64 SURFACE COURSE, 2" THICK
  - MILL PAVEMENT, 2" THICK HOT MIX ASPHALT, 9.5M64 SURFACE COURSE, 2" THICK
  - CONCRETE BASE, 8" THICK, CLASS 'Y' HOT MIX ASPHALT, 9.5M64 SURFACE COURSE, 2" THICK
  - EXCAVATION, UNCLASSIFIED PAVEMENT REINFORCING GEOTEXTILE DENSE GRADED AGGREGATE, 6" THICK HOT MIX ASPHALT, 25M64 BASE COURSE, 4" THICK HOT MIX ASPHALT, 9.5M64 SURFACE COURSE, 2" THICK
  - TOPSOIL, 5" THICK AND SODDING
  - 6"x8"x18" CONCRETE CURB, CLASS 'B', WITH SELECT BACKFILL, DESIGNATION I-11 AND DENSE GRADED AGGREGATE SUBBASE, 4" THICK OR 8"x18" CONCRETE CURB, CLASS 'B', WITH SELECT BACKFILL, DESIGNATION I-11 AND DENSE GRADED AGGREGATE SUBBASE, 4" THICK



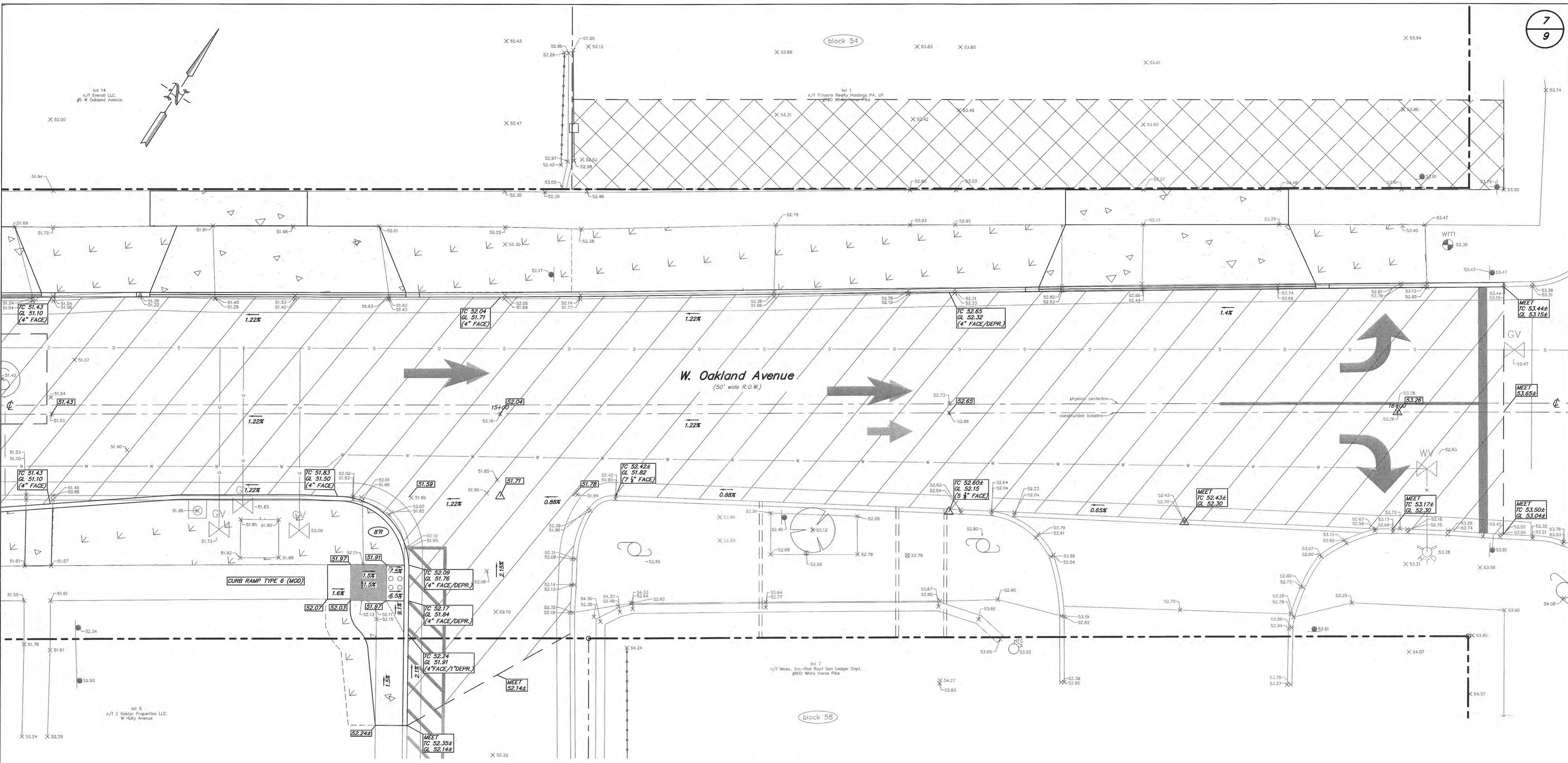
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BENCHMARK FIND FRAILINGER REBAR AT THE CORNER OF LOTS 6 & 7, BLOCK 58 ELEV. 52.48

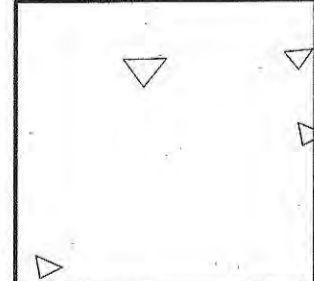
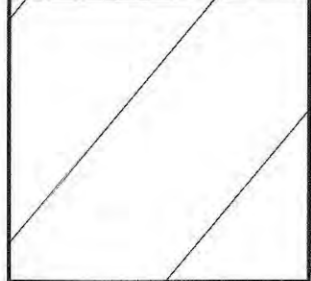
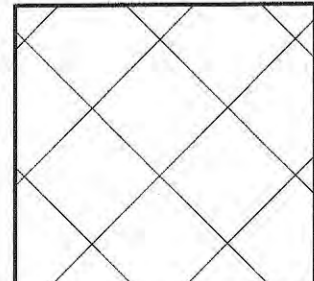
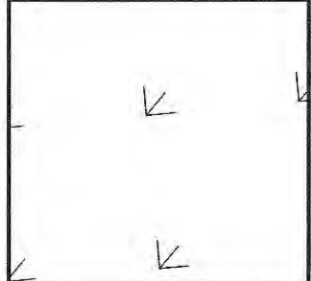
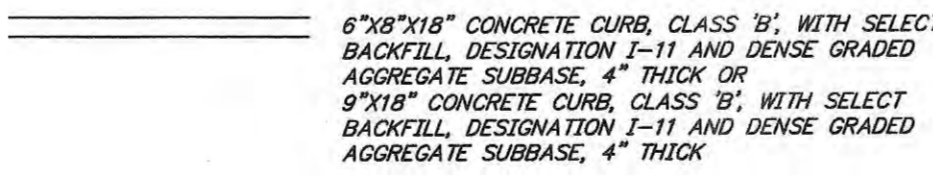
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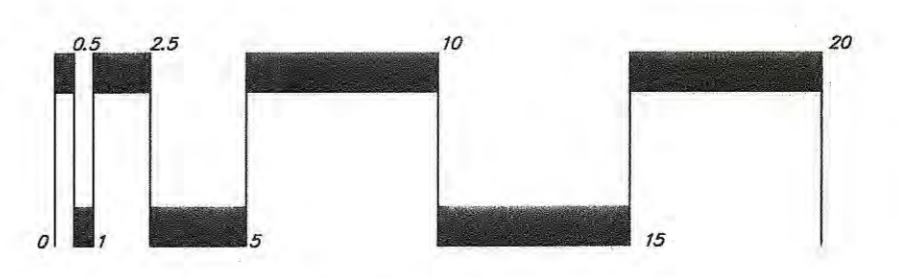
REV.	DATE	DESCRIPTION	DRWN.	CHKD.
<b>Intersection Grading Plan</b>				
N.J.D.O.T. Municipal Aid Program, FY2022 Reconstruction of W. Oakland Avenue from Newton Ave.(CR 727) to the White Horse Pike(NJSH 30)				
Borough of Oaklyn Camden County, New Jersey				
DATE: 02/03/2023	DRAWN BY: J.B.	CHKD. BY: G.E.	SCALE: 1"=5'	
PROJECT No. 25-2590K121	FIELD BOOK/PAGE:		SHEET No. 6 OF 9	
<b>GREGORY BLASE FUSCO</b> PROFESSIONAL ENGINEER				
NJPE No. 32853		PA.PE No. 036608-E NJ PROFESSIONAL PLANNER No. 4076		
80 S. WHITE HORSE PIKE BERLIN, NEW JERSEY 08009-2399 CERTIFICATE OF AUTHORIZATION #24GA28041300		DATE: 2/3/23		





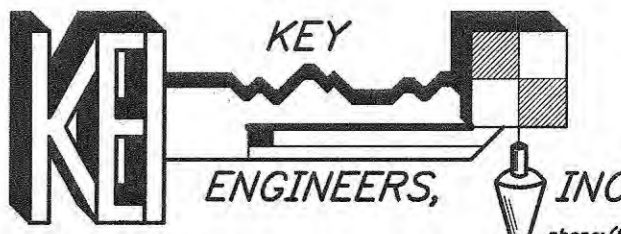

**Legend:**

-  CONCRETE SIDEWALK, 4" THICK, CLASS 'B', WITH SOIL AGGREGATE SUBBASE, 4" THICK OR CONCRETE DRIVEWAY APRON/ SIDEWALK, 6" THICK, CLASS 'B', WITH DENSE GRADED AGGREGATE SUBBASE, 4" THICK
-  EXCAVATION, UNCLASSIFIED PAVEMENT REINFORCING GEGRID DENSE GRADED AGGREGATE, 6" THICK HOT MIX ASPHALT, 2.5M64 BASE COURSE, 4" THICK HOT MIX ASPHALT, 9.5M64 SURFACE COURSE, 2" THICK
-  EXCAVATION, UNCLASSIFIED PAVEMENT REINFORCING GEGRID (DRIVEWAY) DENSE GRADED AGGREGATE, 6" THICK (DRIVEWAY) HOT MIX ASPHALT, 2.5M64 BASE COURSE, 4" THICK (DRIVEWAY) HOT MIX ASPHALT, 9.5M64 SURFACE COURSE, 2" THICK (DRIVEWAY)
-  TOPSOIL, 5" THICK AND SODDING
-  6"x8"x18" CONCRETE CURB, CLASS 'B', WITH SELECT BACKFILL, DESIGNATION I-11 AND DENSE GRADED AGGREGATE SUBBASE, 4" THICK OR 9"x18" CONCRETE CURB, CLASS 'B', WITH SELECT BACKFILL, DESIGNATION I-11 AND DENSE GRADED AGGREGATE SUBBASE, 4" THICK



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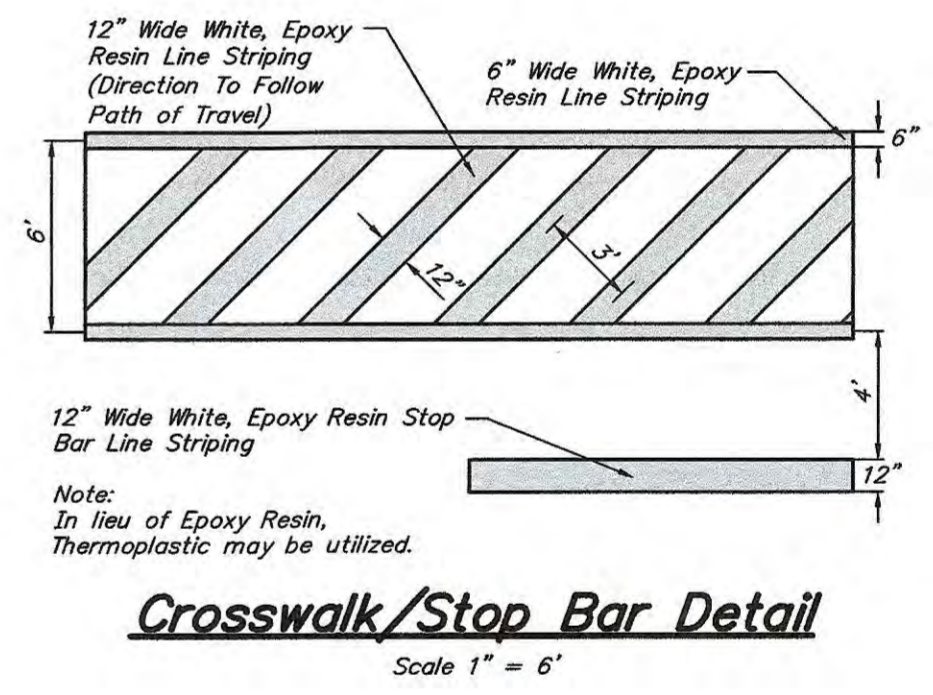
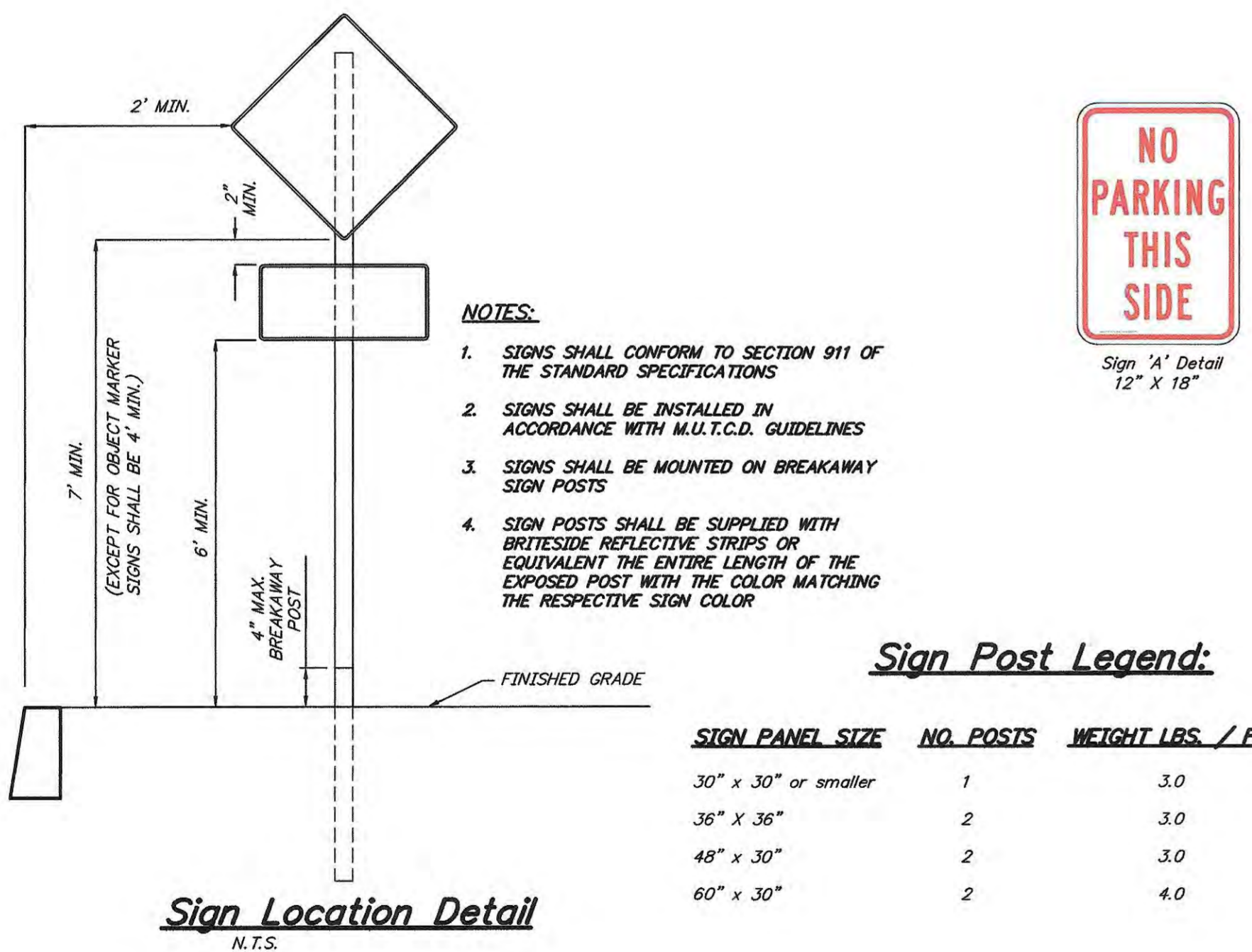
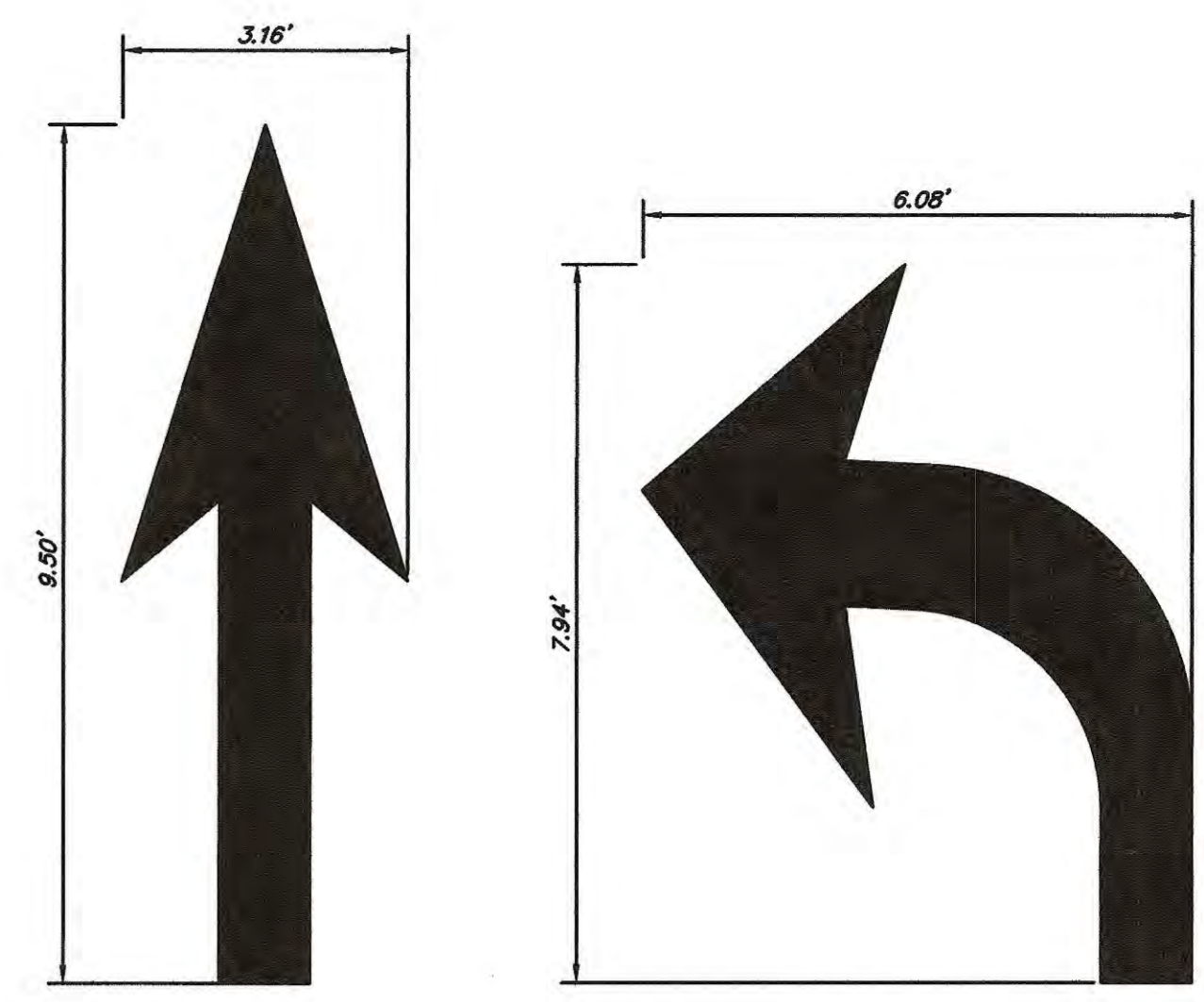
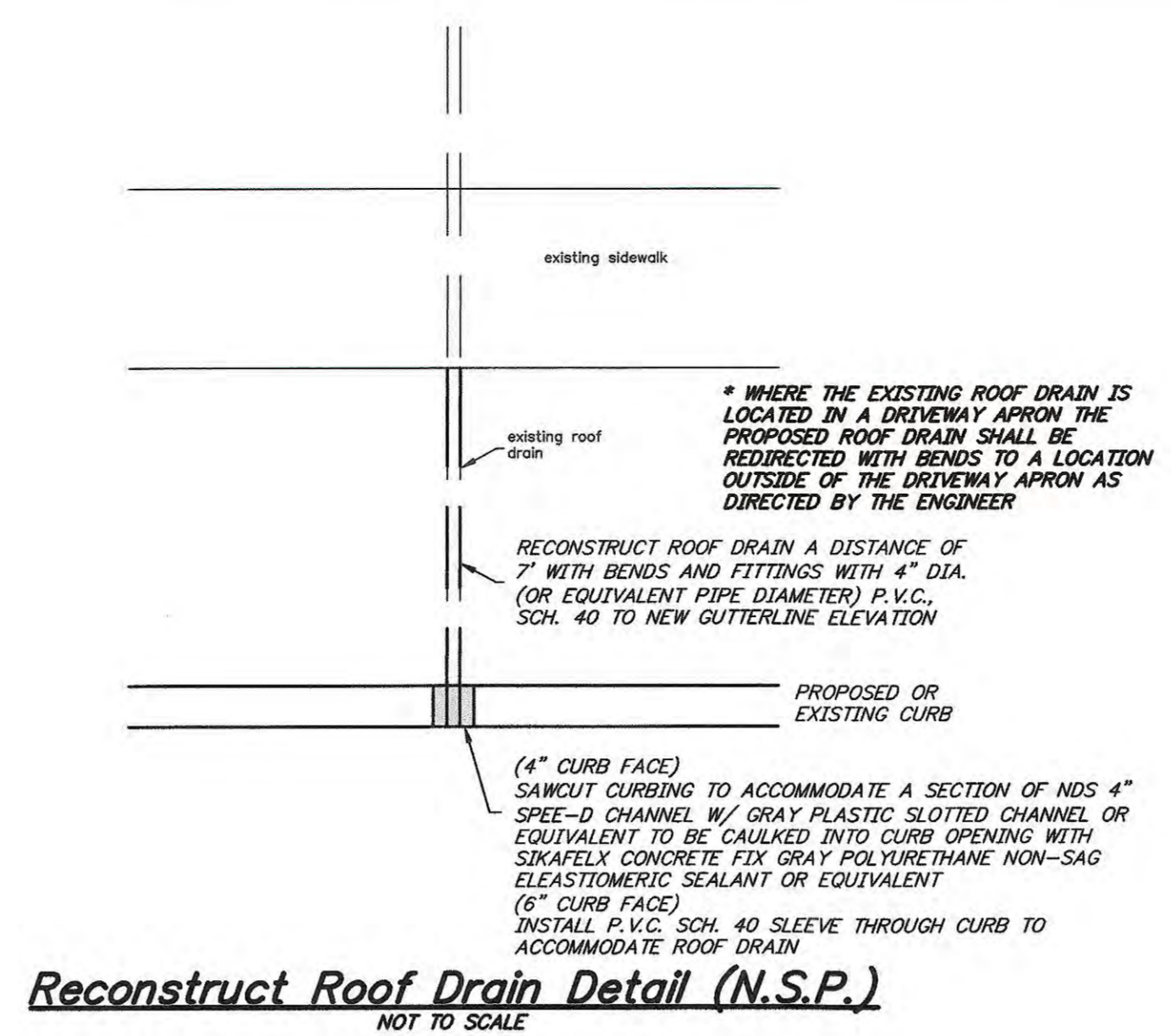
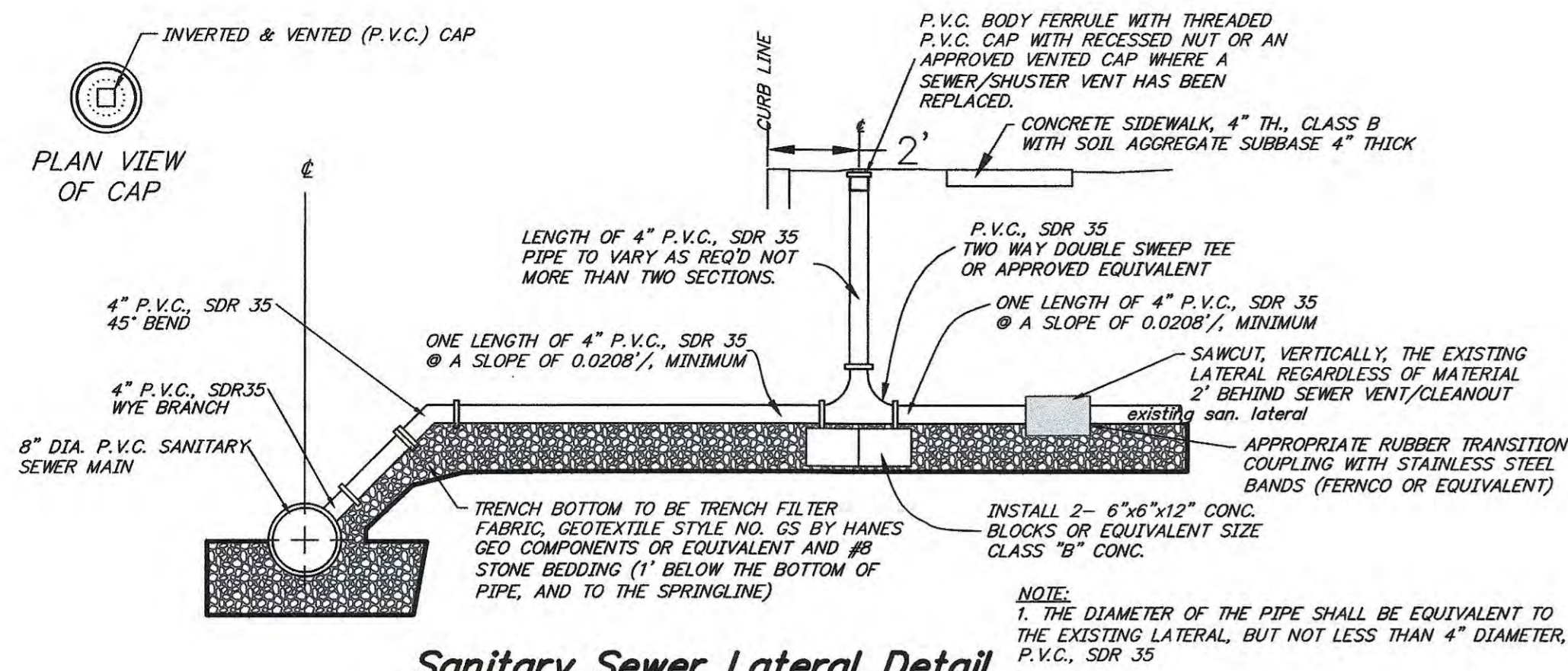
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REV.	DATE	DESCRIPTION	DRWN.	CHKD.
<b>Driveway Entrance Construction Detail</b>				
N.J.D.O.T. Municipal Aid Program, FY2022 Reconstruction of W. Oakland Avenue from Newton Ave.(CR 727) to the White Horse Pike(NJSH 30)				
Borough of Oaklyn Camden County, New Jersey				
DATE: 02/03/2023	DRAWN BY: J.B.	CHKD. BY: G.E.	SCALE: 1"=5'	
PROJECT No. 25-2590K1121	FIELD BOOK/PAGE:		SHEET No. 7 OF 9	
<b>GREGORY BLASE FUSCO</b> PROFESSIONAL ENGINEER				
N.J.P.E. No. 32853		P.A.P.E. No. 036608-E NJ PROFESSIONAL PLANNER No. 4076		
				
80 S. WHITE HORSE PIKE BERLIN, NEW JERSEY 08009-2399 phone: (609) 767-6111 fax: (609) 753-1091 www.keyengineers.com		DATE: 2/3/23		









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 THE N.J.D.O.T. MUNICIPAL AID PROGRAM, FY2021 & 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.

REV.	DATE	DESCRIPTION	DRWN.	CHKD.
<b>Details</b>				
N.J.D.O.T. Municipal Aid Program, FY2022 Reconstruction of W. Oakland Avenue from Newton Avenue (C.R. 727) to White Horse Pike(NJSH 30)				
Borough of Oaklyn Camden County, New Jersey				
DATE: 02/03/2023	DRAWN BY: J.B.	CHKD. BY: G.E.	SCALE: AS NOTED	
PROJECT No. 25-2590K1121	FIELD BOOK/PAGE:		SHEET No. 9 OF 9	
<b>GREGORY BLASE FUSCO</b> PROFESSIONAL ENGINEER				
NJPE No. 32853		PA.PE No. 036608-E NJ PROFESSIONAL PLANNER No. 4076		
				DATE: 2/3/23