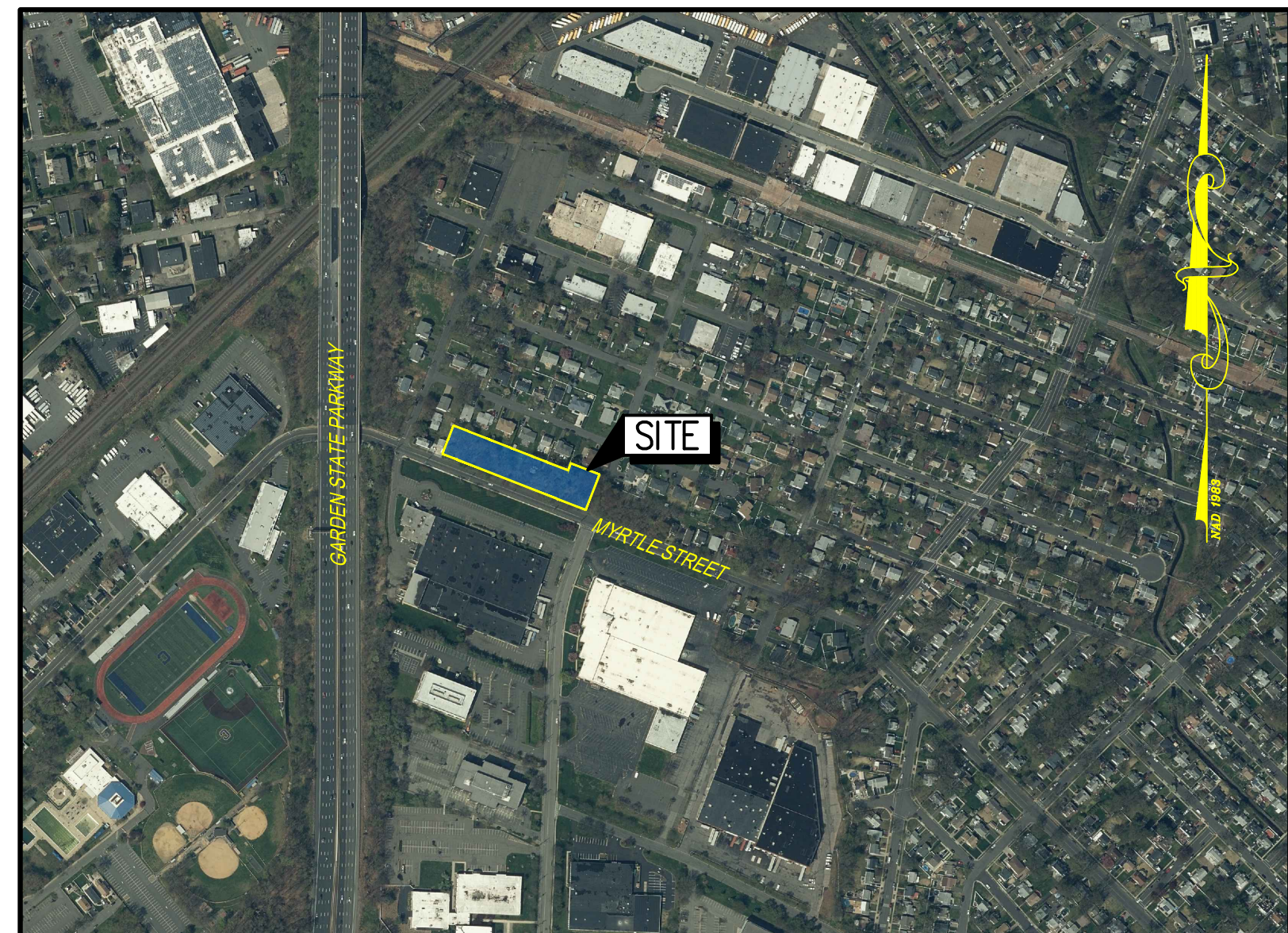


83 MYRTLE STREET SUPPORTIVE HOUSING

BLOCK 573, LOTS 9, 10 & 12.02
CRANFORD TOWNSHIP, UNION COUNTY, NEW JERSEY

PRELIMINARY AND FINAL SITE PLANS



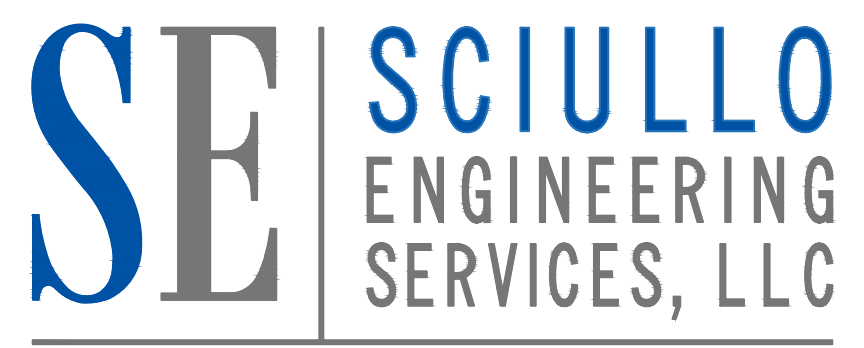
AERIAL MAP
SCALE: 1" = 500'

APPLICANT:



92 BROADWAY, SUITE 101
DENVER, NEW JERSEY 07834

PREPARED BY:



17 SOUTH GORDON'S ALLEY, SUITE 3
ATLANTIC CITY, NEW JERSEY 08401
PHONE: (609) 300-5171
www.sciuллоengineering.com

OWNER
CRANFORD TOWNSHIP
8 SPRINGFIELD AVENUE
CRANFORD, NEW JERSEY 07016

APPLICANT
AVIDD COMMUNITY SERVICES
92 BROADWAY, SUITE 101
DENVER, NEW JERSEY 07834

APPLICANT'S INTENT

THE APPLICANT INTENDS TO SUBDIVIDE SUBJECT PARCEL TO CREATE TWO LOTS FOR CONSTRUCTION OF COMMUNITY RESOURCES FOR THE DISABLED & ONE LOT TO BE LEFT VACANT AND UNDER OWNERSHIP OF THE TOWNSHIP.

EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS IS BASED ON RECORD DRAWINGS AND FIELD SURVEYS AND THE APPLICANT HEREBY ASSUMES THE RESPONSIBILITY OF SOLID ENGINEERING SERVICES, LLC AND/OR CONTRACTOR TO CALL 1-800-272-1000 FOR THE LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

THESE PLANS ARE NOT FOR CONSTRUCTION UNTIL ISSUED FOR CONSTRUCTION APPEARS IN THE TITLEBLOCK.

ALL DOCUMENTS PREPARED BY SCIULLO ENGINEERING SERVICES, LLC ARE INSTRUMENTS OF SERVICE AND ARE NOT TO BE USED FOR ANY OTHER PROJECT OR FOR REUSE WITHOUT WRITTEN PERMISSION OF SCIULLO ENGINEERING SERVICES, LLC. ANY REUSE OR MODIFICATION OF THESE PLANS WITHOUT THE WRITTEN PERMISSION OF SCIULLO ENGINEERING SERVICES, LLC IS PROHIBITED AND WILL BE CONSIDERED A VIOLATION OF PROFESSIONAL ETHICS AND MAY BE SUBJECT TO LEGAL ACTION.

JASON T. SCIULLO, P.E., P.P.
PROFESSIONAL ENGINEER, NEW JERSEY LICENSE NO. 246204586000
PROFESSIONAL PLANNER, NEW JERSEY LICENSE NO. 35100026400

SE SCIULLO ENGINEERING SERVICES, LLC
137 S. NEW YORK AVENUE, SUITE 2
ATLANTIC CITY, NEW JERSEY 08401
PHONE: (609) 300-5171
www.sciuллоengineering.com
NJ CERTIFICATE OF AUTHORIZATION NO. 246A28230700

83 MYRTLE STREET SUPPORTIVE HOUSING
BLOCK 573, LOTS 9, 10 & 12.02
CRANFORD TOWNSHIP, UNION COUNTY, NEW JERSEY

COVER SHEET

756 HADDON AVENUE
COLLINGSWOOD, NEW JERSEY 08108

CERTIFICATION OF APPROVALS

I HEREBY CERTIFY THAT THIS SITE PLAN HAS BEEN APPROVED BY RESOLUTION _____ OF CRANFORD TOWNSHIP PLANNING BOARD.

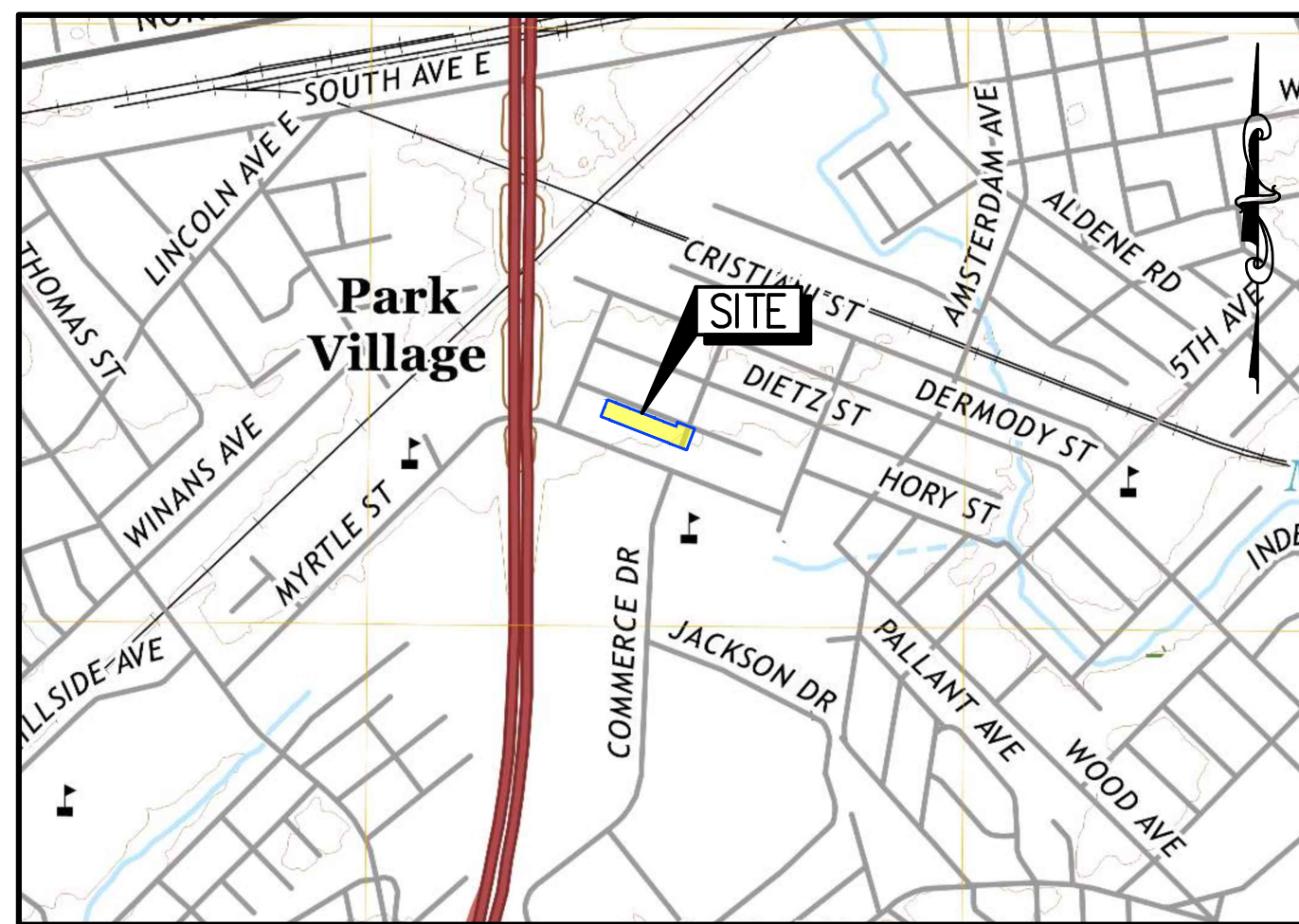
BOARD CHAIRPERSON _____ DATE _____
BOARD SECRETARY _____ DATE _____
TOWNSHIP ENGINEER _____ DATE _____

SHEET INDEX		
SHEET NO.	DWG. NO.	SHEET TITLE
1 OF 9	C0001	COVER SHEET
2 OF 9	C0002	INFORMATION SHEET
3 OF 9	C0101	SITE PLAN
4 OF 9	C0301	GRADING PLAN
5 OF 9	C0401	UTILITY PLAN
6 OF 9	C0501	LANDSCAPE AND LIGHTING PLAN
7 OF 9	C1101	DETAIL SHEET
8 OF 9	C1201	SECS PLAN
9 OF 9	C1301	SECS NOTES AND DETAILS

PROJECT NO.	DRAWING	DATE	DATE	DATE	DATE
K&A 001.01	AS SHOWN	11/30/2022	5/9/2022	1	1
SCALE	SHEET	TOWNSHIP COMPLETENESS REVIEW	INITIAL SUBMISSION	ISSUE NO.	BY
AS SHOWN	1 OF 9	DATE	DATE	DATE	DATE

C0001

CREATED ON 10/27/2021, LAST MODIFIED ON 10/27/2021



U.S.G.S. ROSELLE QUAD SHEET LOCATION MAP

SCALE: 1" = 1,000'

PROJECT NOTES

A. GENERAL SITE NOTES

- 1. TRACT FOR DEVELOPMENT CONSISTS OF BLOCK 573, LOTS 9, 10 & 12.01, SHOWN ON SHEET 141, OF THE OFFICIAL TAX MAP OF CRANFORD TOWNSHIP.
2. TRACT FOR DEVELOPMENT IS ZONED R3 (RESIDENTIAL) AS INDICATED ON THE OFFICIAL ZONING MAP OF CRANFORD TOWNSHIP.
3. TOTAL AREA OF TRACT = 1.20± ACRES OF LAND.
4. GRADING AROUND BUILDING AND FINISHED FLOOR ELEVATIONS ARE SUBJECT TO CHANGE UPON REVIEW OF CONSTRUCTION PLANS OF PROPOSED BUILDINGS UNITS.
5. ALL BARRIER FREE DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST A.D.A. AND N.J.D.O.T. STANDARDS.
6. ANY VARIATIONS FROM THE PLANS MUST BE AUTHORIZED BY THE DESIGN ENGINEER AND APPROVED BY THE TOWNSHIP ENGINEER.
7. THIS SET OF PLANS SHALL NOT BE UTILIZED AS CONSTRUCTION DOCUMENTS UNTIL EACH PLAN HAS BEEN REVISED TO INDICATE 'ISSUED FOR CONSTRUCTION'.
8. CONSTRUCTION DETAILS/SHOP DRAWINGS UTILIZED BY THE CONTRACTOR SHALL BE REVIEWED AND APPROVED BY THE TOWNSHIP ENGINEER.
9. REFER TO COMPLETE SET OF PLANS FOR ADDITIONAL INFORMATION.
10. THIS SET OF DRAWINGS AND ALL INFORMATION CONTAINED HEREIN IS AUTHORIZED FOR THE USE ONLY BY THE PARTY FOR WHOM THE WORK IS CONTRACTED OR WHOM IT IS CERTIFIED. THIS SET OF DRAWINGS MAY NOT BE COPIED, REUSED, DISCLOSED, DISTRIBUTED, OR RELIED UPON FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN CONSENT OF SCIULLO ENGINEERING SERVICES, LLC.
11. ANY DEMOLITION MATERIAL SHALL BE PROPERLY DISPOSED OF AND NO ON-SITE BURIAL IS PERMITTED.
12. THE DEVELOPER AND/OR CONTRACTOR SHALL OBTAIN A STREET OPENING/ACCESS PERMIT FROM CRANFORD TOWNSHIP PRIOR TO THE START OF CONSTRUCTION.

B. SURVEY NOTES

- 1. BEARINGS REFER TO THE NEW JERSEY PLANE COORDINATE SYSTEM NAD83. VERTICAL DATUM REFERS TO NAVD88.
2. BOUNDARY, TOPOGRAPHICAL, AND EXISTING CONDITIONS INFORMATION TAKEN FROM PLAN ENTITLED 'BOUNDARY AND TOPOGRAPHIC SURVEY, TAX LOTS 9 & 10, BLOCK 573, CRANFORD TOWNSHIP, UNION COUNTY, NJ' BY VARGO ASSOCIATES SURVEYING AND MAPPING, PROJECT NUMBER 20006, SHEET 1 OF 1, DATED 1/24/2020, AND UNREVISED.

C. CONTRACTOR/OWNER RESPONSIBILITY NOTES

- 1. THE CONTRACTOR/OWNER SHALL DESIGNATE A PERSON THAT IS KNOWLEDGEABLE OF CONSTRUCTION SAFETY STANDARDS AND IS EXPECTED TO BE AT THE CONSTRUCTION SITE ON A REGULAR BASIS. THIS PERSON SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION, DISCHARGE, AND MONITORING OF SAFETY STANDARDS AND PRACTICES AT THE SITE. THE CONTRACTOR/OWNER SHALL PROVIDE DESIGN ENGINEER WITH NAME, ADDRESS AND TELEPHONE NUMBER OF DESIGNER. IN LIEU OF THIS INFORMATION, THE REPRESENTATIVE PERSON FROM THE CONTRACTOR'S ORGANIZATION WHO SIGNED THE CONTRACT SHALL HEREBY BE RESPONSIBLE FOR THIS FUNCTION.
2. CONTRACTOR SHALL SCHEDULE ALL CONSTRUCTION TO BE IN ACCORDANCE WITH CURRENT O.S.H.A. STANDARDS.
3. SITE CONTRACTOR IS TO VERIFY WITH DESIGN ENGINEER ON WHAT PERMITS AND APPROVALS ARE PENDING OR HAVE BEEN APPROVED.
4. SITE CONTRACTOR IS TO VERIFY AND MATCH HORIZONTAL CONTROL AND VERTICAL ELEVATIONS.
5. CONTRACTOR SHALL PERFORM ALL WORK IN A WORKMANLIKE MANNER IN ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, AND MANUFACTURERS' RECOMMENDATIONS AND STANDARDS.
6. ALL DIMENSIONS AND EXISTING CONDITIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.
7. UNDERGROUND UTILITIES LOCATIONS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR AT THE TIME OF CONSTRUCTION.
8. THE CONTRACTOR SHALL VERIFY IN FIELD ALL CONDITIONS AS SHOWN ON THE PLANS AND SHALL BE RESPONSIBLE FOR FIELD MEASUREMENTS FOR ALL NEW CONSTRUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR ANY INFORMATION NOT SHOWN HERE.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING, UNDERPINNING AND STRUCTURAL STABILITY DURING CONSTRUCTION.
10. THE CONTRACTOR SHALL CALL 1-800-272-1000 FOR FIELD LOCATIONS OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
11. IN THE EVENT CONDITIONS AT THE SITE ARE NOTICEABLY DIFFERENT (AT THE TIME OF CONSTRUCTION) FROM THE DOCUMENTS PROVIDED, THE CONTRACTOR AND/OR OWNER SHALL NOTIFY THE DESIGN ENGINEER.
12. THE PROPOSED SITE GRADING DEPICTED IN THESE PLANS IS INTENDED TO PROVIDE A GENERAL GUIDE FOR GRADING. THE GENERAL CONTRACTOR, CONSTRUCTION MANAGER OR OWNER SHALL INSTRUCT THE CONCRETE CONTRACTOR TO TAKE CARE IN SETTING FORMS FOR PEDESTRIAN AREAS TO ENSURE THEY CONFORM TO THE NEW JERSEY BARRIER FREE SUBCODE.
13. THE CONTRACTOR SHALL COMPLY WITH ALL CONDITIONS OF APPROVAL IMPOSED BY ALL REGULATORY AGENCIES HAVING JURISDICTION AS IT RELATES TO THE CONSTRUCTION AND MAINTENANCE OF THE IMPROVEMENTS.
14. CONTRACTOR DAMAGE TO ANY EXISTING FEATURE SUCH AS, BUT NOT LIMITED TO, CONCRETE CURBS, CONCRETE WALKS, PAVING, LIGHTS, PLANTERS, SIGNS, UTILITIES OR BUILDINGS NOT SCHEDULED FOR REMOVAL SHALL BE RESTORED TO ORIGINAL CONDITION BY THE CONTRACTOR.
15. THE OWNER, OR HIS REPRESENTATIVE, IS TO DESIGNATE AN INDIVIDUAL RESPONSIBLE FOR CONSTRUCTION SITE SAFETY DURING THE COURSE OF SITE IMPROVEMENTS PURSUANT TO N.J.A.C. 5:23-2.21 (E) OF THE N.J. UNIFORM CONSTRUCTION CODE AND CFR 1926.32 (F) (OSHA COMPETENT PERSON).
16. THE CONTRACTOR SHALL COMPLY WITH ALL AS-BUILT GRADING PLAN SHOWING FOUNDATION GRADES, ELEVATIONS AT FIFTY (50) FOOT INTERVALS ALONG PROPERTY LINES, HIGH POINT ELEVATIONS AND CENTERLINE OF SWALE ELEVATIONS AFTER COMPLETION OF CONSTRUCTION. SAID PLAN SHALL BE SUITABLE FOR SUBMISSION TO THE TOWNSHIP PURSUANT TO ORDINANCE SECTION 506.C.1 IN ORDER TO OBTAIN A CERTIFICATE OF OCCUPANCY FROM THE TOWNSHIP.
17. PRIOR TO COMMENCEMENT OF ANY SITE WORK, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND DESIGN ENGINEER TO SCHEDULE AND ATTEND A PRE-CONSTRUCTION MEETING WITH THE TOWNSHIP ENGINEER'S OFFICE.

D. ROADWAY & SIGNAGE NOTES

- 1. ALL CONSTRUCTION UNDER THIS CONTRACT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION AS AMENDED.
2. ALL ROADWAY DESIGN AND CONSTRUCTION FOR MUNICIPAL ROADS SHALL BE IN ACCORDANCE WITH STANDARDS SET FORTH BY CRANFORD TOWNSHIP.
3. ALL TRAFFIC SIGN PLACEMENT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON



N.R.C.S. U.S. DEPARTMENT OF AGRICULTURE SOILS MAP

SCALE: 1" = 500'

- UNIFORM TRAFFIC CONTROL DEVICES, U.S. DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION AS AMENDED. ALL SIGNS SHALL BE MOUNTED ON BREAKAWAY SIGN POSTS AS DETAILED AND APPROVED BY NJDOT.
4. THE APPLICANT SHALL NOTIFY THE TOWNSHIP ENGINEER A MINIMUM OF 24 HOURS PRIOR TO THE START OF ANY ROAD CONSTRUCTION.
5. MATERIAL PLACED AS FILL SHALL BE FREE OF DETRIMENTAL AMOUNTS OF SOD, ROOTS, STONE (>6" DIAMETER), FROZEN SOIL AND OTHER OBJECTIONABLE MATERIALS.

E. UTILITY NOTES

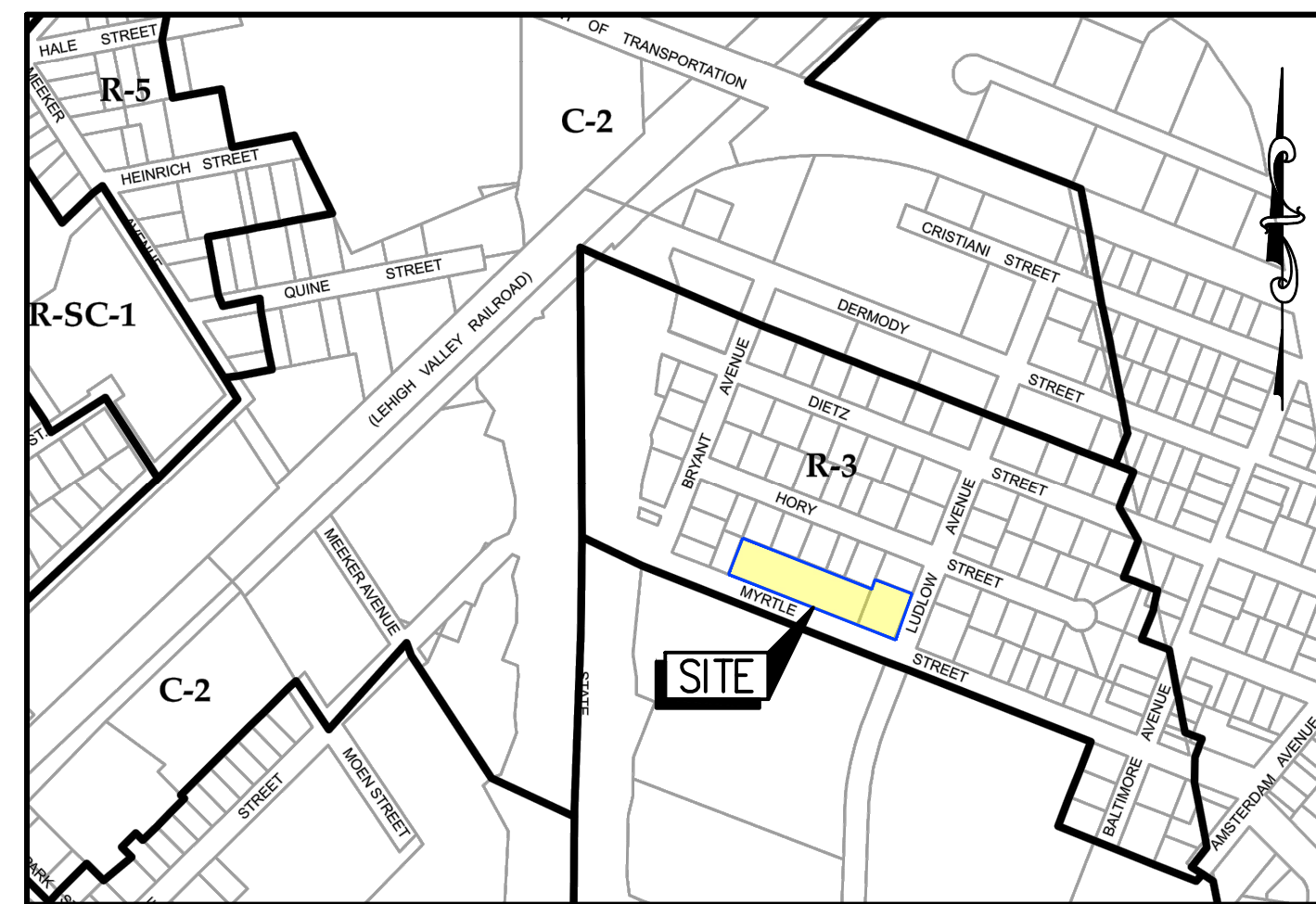
- 1. PROPOSED UTILITIES SHALL BE INSTALLED UNDERGROUND WITHIN THE STREET RIGHT-OF-WAY.
2. STORMWATER MANAGEMENT SHALL BE IN ACCORDANCE WITH STANDARDS SET FORTH BY CRANFORD TOWNSHIP, NEW JERSEY RESIDENTIAL SITE IMPROVEMENT STANDARDS AND THE STATE OF NEW JERSEY STORMWATER MANAGEMENT RULES.
3. DRAINAGE INLET STRUCTURES AND ENDWALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH NJDOT STANDARD DETAILS.
4. ALL INLETS TO HAVE BICYCLE SAFE GRATES.
5. T.C. DESIGNATIONS INDICATE TOP OF CURB ELEVATIONS, B.C. INDICATES BOTTOM OF CURB ELEVATIONS AND GUT. INDICATES CUTTER ELEVATIONS.
6. GAS, ELECTRIC AND TELEPHONE SERVICE SHALL BE INSTALLED UNDERGROUND THROUGHOUT THE DEVELOPMENT IN ACCORDANCE WITH REGULATIONS OF THE LOCAL UTILITY COMPANIES AND CRANFORD TOWNSHIP.
7. WHERE IT IS NECESSARY TO CONNECT TO EXISTING UTILITIES WITHIN EXISTING ROADWAYS, THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SAW CUTTING, TRENCHING, BACKFILL, COMPACTION AND PAVING SHALL BE IN ACCORDANCE WITH CRANFORD TOWNSHIP AND CAMDEN COUNTY SPECIFICATIONS, AS APPLICABLE.
8. BEDDING AND BACKFILL FOR THE REINFORCED CONCRETE PIPE SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
9. PIPE LENGTHS AND GRADIENTS ARE CALCULATED TO THE CENTERLINE OF SANITARY AND STORM SEWER STRUCTURES. ACTUAL PIPE LENGTH MAY BE LESS THAN CALCULATED LENGTH, AND SHOULD BE COMPUTED BY CONTRACTOR PRIOR TO CONSTRUCTION.
10. EXISTING UTILITY INFORMATION SHOWN ON THIS PLAN IS FURNISHED BY THE UTILITY COMPANIES OR SURVEY PLAN BY SURVEYOR AND THE ACCURACY THEREOF IS NOT THE RESPONSIBILITY OF SCIULLO ENGINEERING SERVICES, LLC. IT IS THE RESPONSIBILITY OF OWNER AND/OR CONTRACTOR TO CALL 1-800-272-1000 FOR FIELD LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

ZONING SCHEDULE

Table with 9 columns: ORD. SECTION, R-3 RESIDENTIAL ZONING DISTRICT, PERMITTED OR REQUIRED, PROPOSED LOT 12.02, CONFORMITY STATUS, PROPOSED LOT 10, CONFORMITY STATUS, PROPOSED LOT 9, CONFORMITY STATUS. Rows include 255-36a(1) and 255-350(4).

ZONING SCHEDULE NOTES:

- 1. WHERE PREVAILING SETBACKS WITHIN 200' OF LOT ARE LESS THAN 20', A MINIMUM 20' FRONT YARD IS REQUIRED.
2. MINIMUM REAR YARD IS 30% OF REQUIRED FRONT YARD FOR SETBACKS LESS THAN 100'.
3. TOTAL COMBINED COVERAGE BETWEEN LOTS 9 & 10 IS 14,610 SF OR 34.4%



OFFICIAL ZONING MAP OF CRANFORD TOWNSHIP

SCALE: N.T.S.

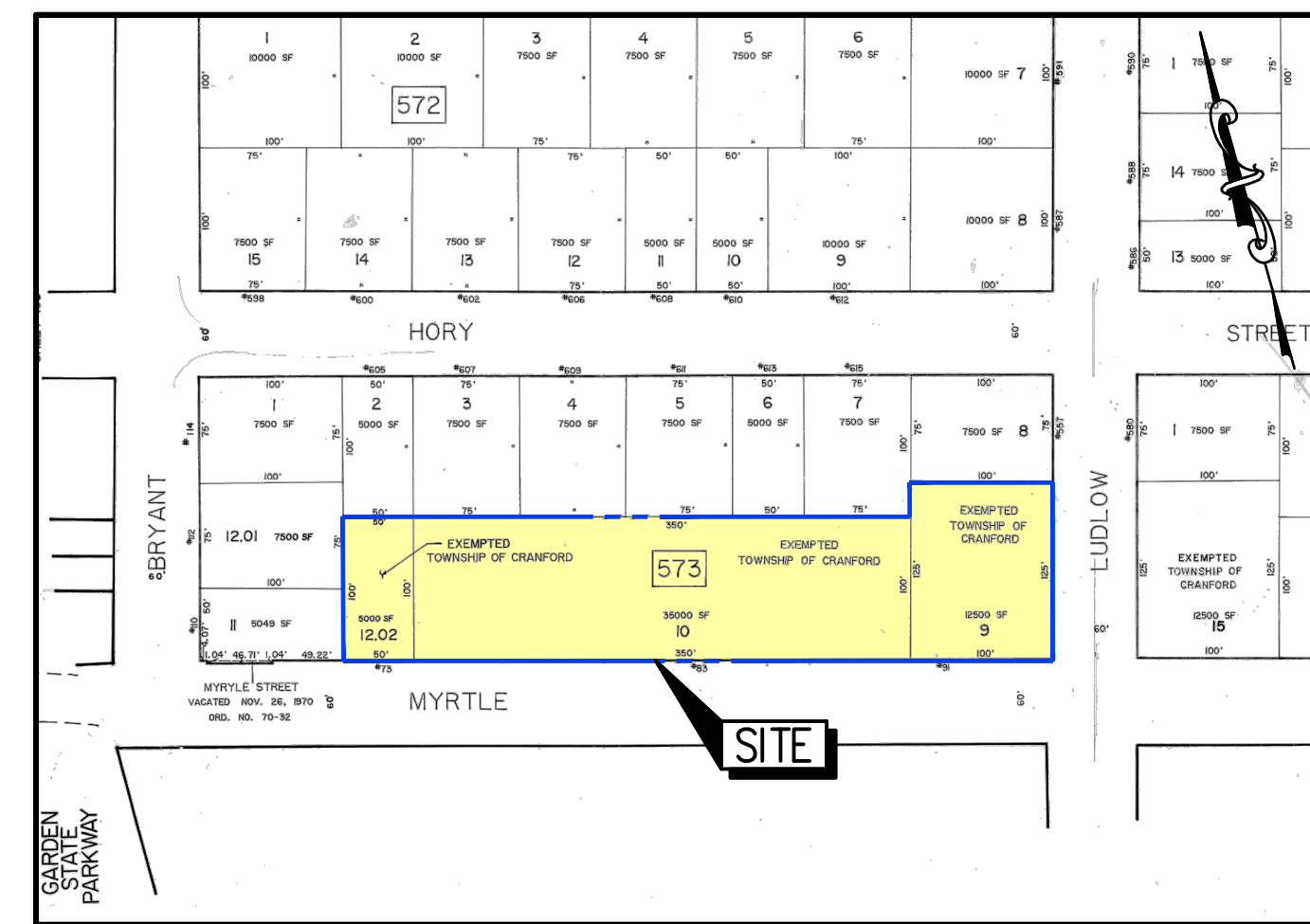
SOILS DATA

- BoB BOONTON-URBAN LAND-HALDON COMPLEX 0-8% SLOPES
HaB HALDON-URBAN LAND-HASBROUCK COMPLEX 0-8% SLOPES
UR URBAN LAND

SOILS DATA OBTAINED FROM NATURAL RESOURCES CONSERVATION SERVICES (NRCS) U.S. DEPARTMENT OF AGRICULTURE. ALL SOIL EROSION AND SEDIMENT CONTROL IMPLEMENTATION SHALL BE IN ACCORDANCE WITH STANDARDS SET FORTH BY THE SOMERSET UNION SOIL CONSERVATION DISTRICT SOIL.

UTILITIES

- COMCAST C/O CORPORATION TRUST CO 820 BEAR TAVERN ROAD WEST TRENTON, NJ 08638
VERIZON EXECUTIVE OFFICES 1 VERIZON WAY ATT: CORPORATE SECRETARY BASKING RIDGE, NJ 07920
PSE&G MANAGER- CORPORATE PROPERTIES 80 PARK PLAZA, 16B NEWARK, NJ 07101
NEW JERSEY AMERICAN WATER, INC. ATT: GIS SUPERVISOR 1025 LAUREL OAK ROAD WEST TRENTON, NJ 08043
ELIZABETHTOWN GAS COMPANY ENGINEERING DEPARTMENT 520 GREEN LANE UNION, NJ 07083
RAHWAY VALLEY SEWAGE AUTHORITY ATT: CHIEF ENGINEER 1050 EAST HAZELWOOD AVENUE RAHWAY, NJ 07065



OFFICIAL TAX MAP OF CRANFORD TOWNSHIP (SHEET 141)

CRANFORD TOWNSHIP CERTIFIED OWNER'S LIST WITHIN 200'

Table with 5 columns: BLOCK LOT, QUALIFIER, PROPERTY LOCATION, OWNER. Lists neighboring property owners and their details within a 200-foot radius of the site.

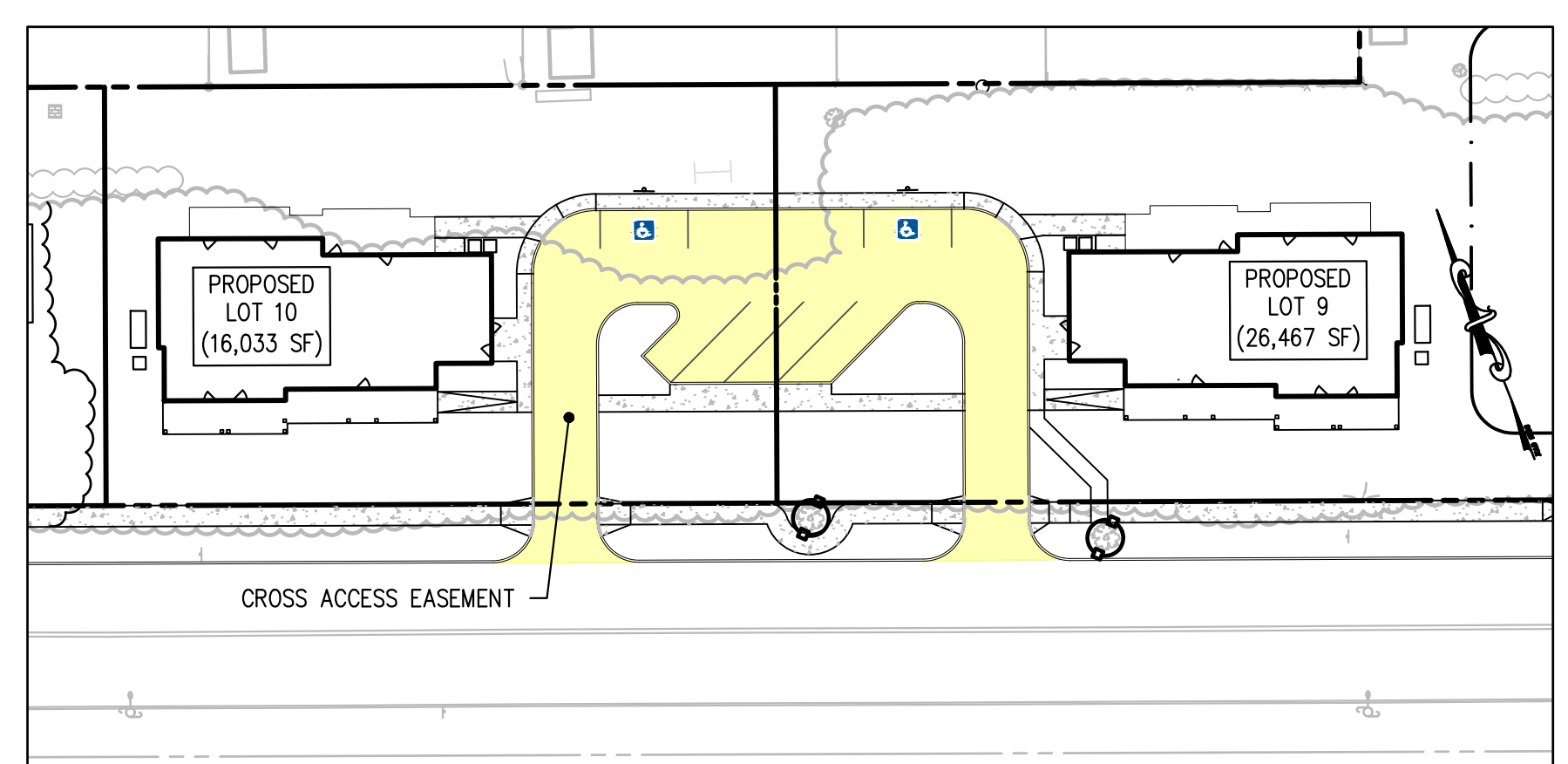
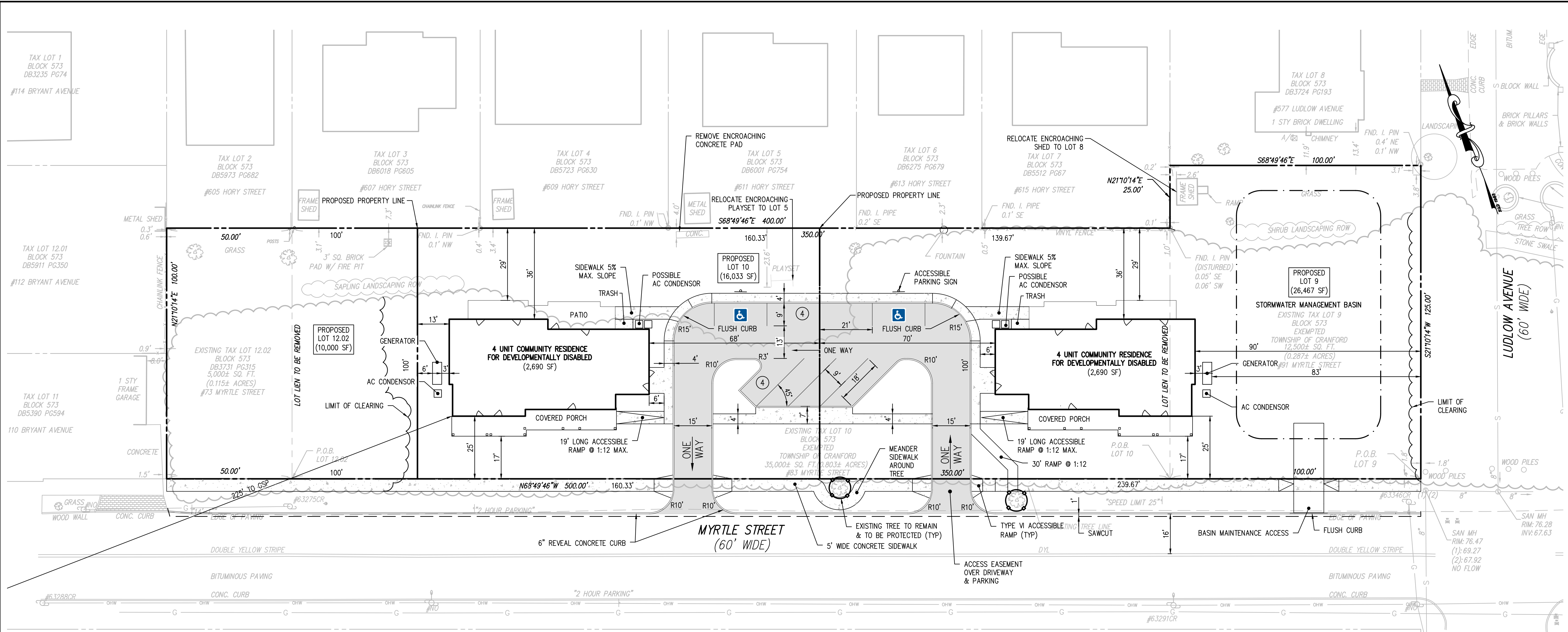
811 logo and text: 'Call before you dig. Know what's below. 811' with contact information for utility services.

Professional Engineer seal for Jason T. Scullo, P.E., P.P., License No. 24604586000, with contact information for Scullo Engineering Services, LLC.

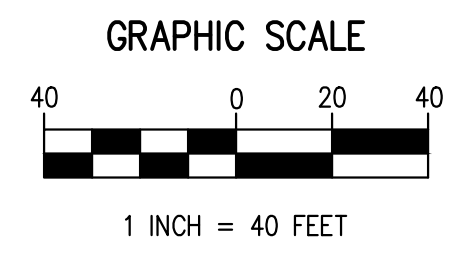
Scullo Engineering Services, LLC logo and contact information: 137 S. NEW YORK AVENUE, SUITE 2 ATLANTIC CITY, NEW JERSEY 08401.

83 MYRTLE STREET SUPPORTIVE HOUSING INFORMATION SHEET header with project details and contact information for Scullo Engineering Services, LLC.

Table with 4 columns: PROJECT NO., SCALE, SHEET, DATE. Row 1: K&A 001.01, 2 OF 9, 5/9/2022.



CROSS ACCESS EASEMENT DETAIL

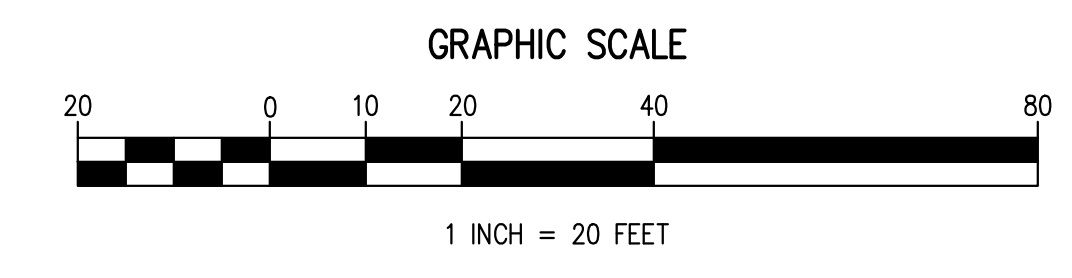


ZONING SCHEDULE

ORD. SECTION	R-3 RESIDENTIAL ZONING DISTRICT	PERMITTED OR REQUIRED	PROPOSED LOT 12.02	CONFORMITY STATUS	PROPOSED LOT 10	CONFORMITY STATUS	PROPOSED LOT 9	CONFORMITY STATUS
255-36A(1)	USE	COMMUNITY RESIDENCES FOR DEVELOPMENTALLY DISABLED FOR 1-6 RESIDENTS, EXCLUDING STAFF	VACANT	C	COMMUNITY RESIDENCES FOR DEVELOPMENTALLY DISABLED, 4 RESIDENTS	C	COMMUNITY RESIDENCES FOR DEVELOPMENTALLY DISABLED, 4 RESIDENTS	C
255-34 AND 255 ATTACHMENT 1	MINIMUM LOT AREA	8,000 SF	10,000 SF	C	16,033 SF	C	26,467 SF	C
	MINIMUM LOT WIDTH	65'	100'	C	160.33'	C	239.67'	C
	MINIMUM LOT WIDTH (CORNER)	75'	N/A	N/A	N/A	N/A	239.67'	C
	MINIMUM FRONT YARD	25'/20' (SEE NOTE 1)	N/A	N/A	25' TO HOME 17' TO PORCH	C	25' TO HOME 17' TO PORCH	C
	MINIMUM REAR YARD	7.5' (SEE NOTE 2)	N/A	N/A	36'	C	36'	C
	MINIMUM SIDE YARD (ONE)	7'	N/A	C	13'	C	70'	C
	MINIMUM SIDE YARD (BOTH)	19.5'	N/A	C	81'	C	N/A (CORNER)	C
	MAXIMUM IMPERVIOUS COVERAGE	38%	0%	C	7,279 SF 45.4%	C	7,800 SF 29.4%	C
	MAXIMUM BUILDING COVERAGE	28%	0%	C	16.7%	C	10.1%	C
	MAXIMUM BUILDING HEIGHT	2 1/2 STORIES/32'	N/A	C	1 STORY/32'	C	1 STORY/32'	C
	MAXIMUM ACCESS BUILDING	1 STORY/16'	N/A	N/A	NA	N/A	N/A	N/A
	MAXIMUM LOT DEPTH DISTANCE FOR LOT AREA MEASUREMENT	125'	100'	C	100'	C	125'	C
MINIMUM LOT DEPTH	100'	100'	C	100'	C	125'	C	
MINIMUM DISTANCE TO GSP OR RAILROAD	100'	213' TO GSP 700' TO RR	C	225' TO GSP 712' TO RAILROAD	C	440' TO GSP 920' TO RAILROAD	C	
MINIMUM DISTANCE FROM BUILDING TO 1 OR 2 FAMILY RESIDENCE ZONE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
255-35D(4)	GENERATOR LOCATION	SIDE OR REAR YARD 5' SETBACK	N/A	N/A	SIDE YARD 6' SETBACK	C	FRONT YARD 83' SETBACK	DNC
255-44D(5)	1 PARKING SPACE IN GARAGE	REQUIRED FOR SINGLE FAMILY HOME	N/A	N/A	NOT PROPOSED	DNC	NOT PROPOSED	DNC

ZONING SCHEDULE NOTES:

- WHERE PREVAILING SETBACKS WITHIN 200' OF LOT ARE LESS THAN 20', A MINIMUM 20' FRONT YARD IS REQUIRED.
- MINIMUM REAR YARD IS 30% OF REQUIRED FRONT YARD FOR SETBACKS LESS THAN 100'.
- TOTAL COMBINED COVERAGE BETWEEN LOTS 9 & 10 IS 14,610 SF OR 34.4%



DESIGN WAIVERS REQUESTED

- FROM §255-26(3)(a) TO PERMIT A ZERO (0) FOOT SETBACK TO OFF-STREET PARKING AREA WHERE THREE (3) FEET IS REQUIRED. THE PROJECT PROPOSES A SHARED PARKING AREA BETWEEN THE TWO BUILDING LOTS WITH NO SETBACK.
- FROM §255-26(9) TO PERMIT LIGHTING LEVELS AT 1.0 FOOTCANDLE IN THE PROPOSED PARKING WHERE THE ORDINANCE REQUIRES 1.5 FOOTCANDLES. THE PROPOSED LIGHTING LEVEL IS SAFE AND ANYTHING BRIGHTER COULD CREATE UNDUE NEGATIVE IMPACT ON THE SURROUNDING RESIDENTIAL LOTS.
- FROM §255-26(3)(b) TO PERMIT A LIGHT POLE HEIGHT OF 20 FEET WHERE 16 FEET IS THE MAXIMUM PERMITTED. THE PROJECT PROPOSES ONE LIGHT STANDARD ON THE PROPOSED PARKING AREA AND LOWERING THE HEIGHT WOULD REQUIRE AN ADDITIONAL FIXTURE THAT WOULD ADD COST AND CREATE A HIGHER LIGHTING OUTPUT THAT COULD POTENTIALLY IMPACT NEIGHBORS.
- FROM §255-26L TO PERMIT TWO BUILDINGS THAT ARE SIMILAR IN APPEARANCE.
- FROM §255-26N(2) TO PROVIDE A TREE REPLACEMENT PLAN. THE APPLICANT RESPECTFULLY REQUESTS A WAIVER FROM PROVIDING A TREE REPLACEMENT PLAN SINCE THE SITE IS FULLY WOODED AND IN ORDER TO ALLOW THE PERMITTED DEVELOPMENT TREES WILL NEED TO BE CLEARED. A LANDSCAPE PLAN SHOWING STREET TREES AND BUFFER PLANTINGS HAS BEEN PROVIDED AND ANY ADDITIONAL REPLACEMENT TREES WILL TAKE AWAY FROM THE USABILITY OF THE YARD AREAS AND ADD UNDUE COST ON THE PROPOSED AFFORDABLE HOUSING PROJECT.

EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS IS THE RESPONSIBILITY OF THE APPLICANT. THE APPLICANT SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE APPLICANT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR CONTRACTOR TO CALL 1-800-272-1000 FOR THE LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

THESE PLANS ARE NOT FOR CONSTRUCTION UNTIL THEY ARE APPROVED BY THE TOWNSHIP ENGINEER.

811
Know what's below.
Call before you dig.

ALL DOCUMENTS PREPARED BY SCULLO ENGINEERING SERVICES, LLC ARE INSTRUMENTS OF SERVICE. THE APPLICANT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR CONTRACTOR TO CALL 1-800-272-1000 FOR THE LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. THE APPLICANT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR CONTRACTOR TO CALL 1-800-272-1000 FOR THE LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

JASON T. SCULLO, P.E., P.P.
PROFESSIONAL ENGINEER, NEW JERSEY LICENSE NO. 24604586000
PROFESSIONAL PLANNER, NEW JERSEY LICENSE NO. 3510026400

www.sculloengineering.com
j.scullo@sculloengineering.com

SCULLO ENGINEERING SERVICES, LLC
137 S. NEW YORK AVENUE, SUITE 2
ATLANTIC CITY, NEW JERSEY 08401
PHONE: (609) 300-5171
www.sculloengineering.com
NJ CERTIFICATE OF AUTHORIZATION NO. 246A26290700

83 MYRTLE STREET SUPPORTIVE HOUSING
BLOCK 573, LOTS 9, 10 & 12.02
CRANFORD TOWNSHIP, UNION COUNTY, NEW JERSEY

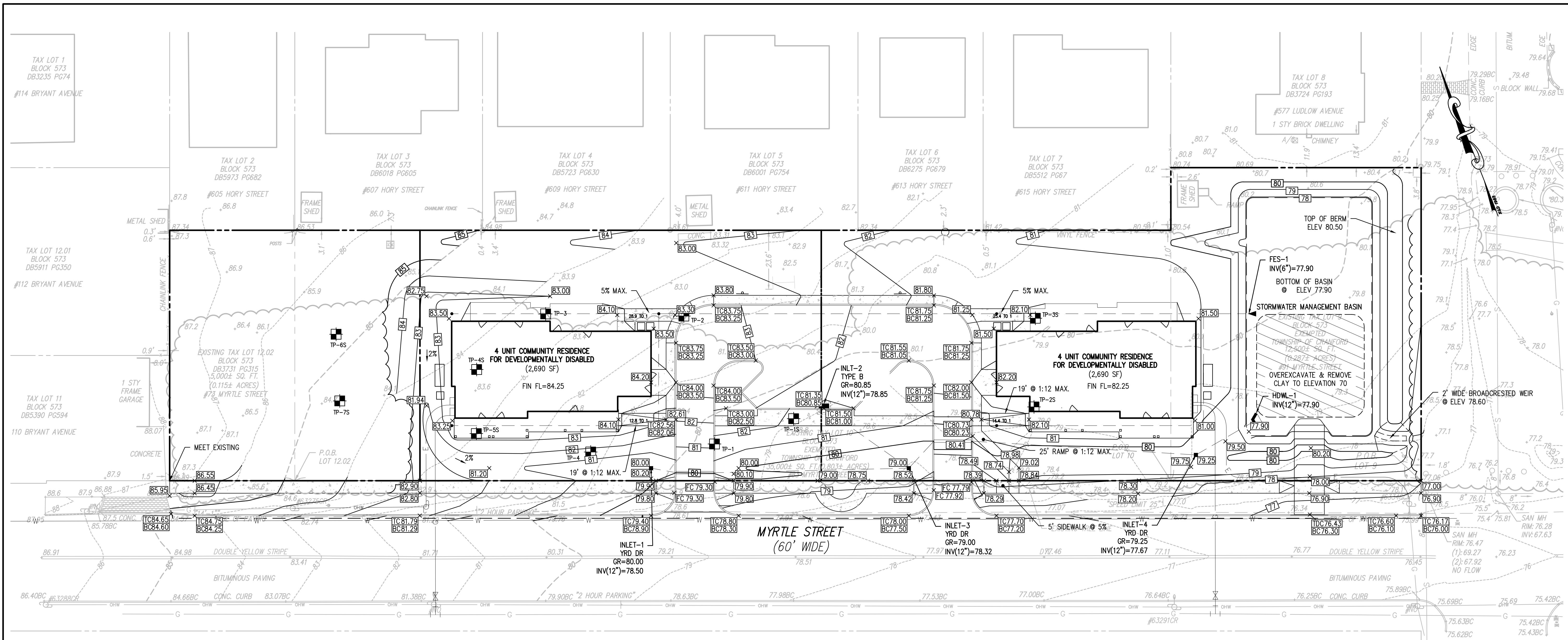
SITE PLAN

756 HADDON AVENUE
COLLINGSWOOD, NEW JERSEY 08108

PROJECT NO.	DATE	ISSUE NO.	BY	APPR.
K&A 001.01 <td>11/30/2022 <td>2 <td>JTS <td>JTS </td></td></td></td>	11/30/2022 <td>2 <td>JTS <td>JTS </td></td></td>	2 <td>JTS <td>JTS </td></td>	JTS <td>JTS </td>	JTS
SCALE 1" = 20'	5/9/2022 <td>1 <td>JTS <td>JTS </td></td></td>	1 <td>JTS <td>JTS </td></td>	JTS <td>JTS </td>	JTS
SHEET 3 OF 9				

C0101

CREATED ON 10/19/2021, LAST MODIFIED ON 10/19/2021



811
Know what's below.
Call before you dig.

EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS IS THE RESPONSIBILITY OF THE ENGINEER. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

JASON T. SCULLO, P.E., P.P.
PROFESSIONAL ENGINEER, NEW JERSEY LICENSE NO. 24600458000
PROFESSIONAL PLANNER, NEW JERSEY LICENSE NO. 3510026400

SCULLO ENGINEERING SERVICES, LLC
137 S. NEW YORK AVENUE, SUITE 2
ATLANTIC CITY, NEW JERSEY 08401
PHONE: (609) 300-5171
WWW.SCULLOENGINEERING.COM
NJ CERTIFICATE OF AUTHORIZATION NO. 24628230700

SCULLO ENGINEERING SERVICES, LLC
137 S. NEW YORK AVENUE, SUITE 2
ATLANTIC CITY, NEW JERSEY 08401
PHONE: (609) 300-5171
WWW.SCULLOENGINEERING.COM
NJ CERTIFICATE OF AUTHORIZATION NO. 24628230700

TEST PIT LOGS - STORMWATER MANAGEMENT INVESTIGATION

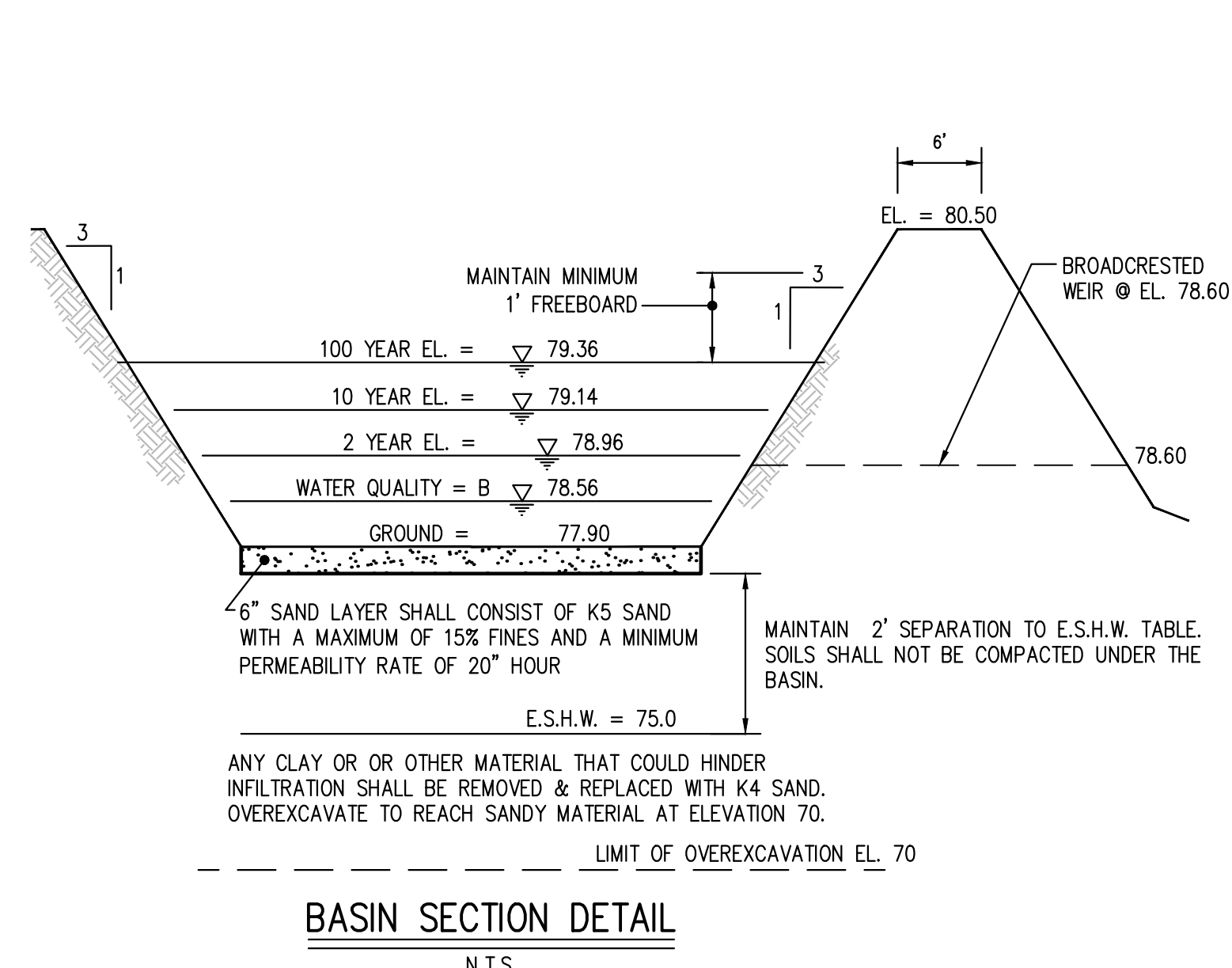
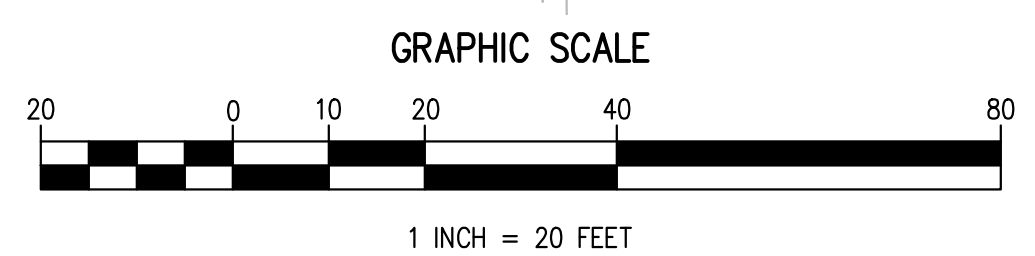
TEST PIT LOG		EXPLORATION NO.: TP-1	
Scullo Engineering Services, LLC		SHEET: 1 of 1	
Crainford, NJ		PROJECT NO: 24.000204.01	
Crainford, NJ		REVISION BY: Cory Karpaga	
Logged By: Glenn Zingroski		Final Test Pit Depth (ft.): 12	
Contractor: MTA, a Division of GZA		Date Start - Finish: 1/27/2020 - 1/27/2020	
Operator: MTA, a Division of GZA		Ground Surface Elev. (ft.): 79.5	
Type of Excavator: Trackhoe		Groundwater Depth (ft.)	
Excavator Model: Link Belt 135		Date	Time
		1/27/20	
Depth (ft.)	Sample No.	Sample Depth (ft.)	Stratum
1		0-1.25	0-1.5"
1	S1	1.5	1.25-2.7
2		2.74	2.74
3	S1	2	1.5-2.7
4	S2	4	2.74
5		6-12	6-12"
6		6-12	6-12"
7		6-12	6-12"
8		6-12	6-12"
9	S3	9	6-12.5
10		6-12.5	6-12.5"
11		6-12.5	6-12.5"
12		6-12.5	6-12.5"
13		6-12.5	6-12.5"
14		6-12.5	6-12.5"
15		6-12.5	6-12.5"
16		6-12.5	6-12.5"
17		6-12.5	6-12.5"
18		6-12.5	6-12.5"
19		6-12.5	6-12.5"
20		6-12.5	6-12.5"

TEST PIT LOG		EXPLORATION NO.: TP-2	
Scullo Engineering Services, LLC		SHEET: 1 of 1	
Crainford, NJ		PROJECT NO: 24.000204.01	
Crainford, NJ		REVISION BY: Cory Karpaga	
Logged By: Glenn Zingroski		Final Test Pit Depth (ft.): 12.5	
Contractor: MTA, a Division of GZA		Date Start - Finish: 1/27/2020 - 1/27/2020	
Operator: MTA, a Division of GZA		Ground Surface Elev. (ft.): 82.5	
Type of Excavator: Trackhoe		Groundwater Depth (ft.)	
Excavator Model: Link Belt 135		Date	Time
		1/27/20	
Depth (ft.)	Sample No.	Sample Depth (ft.)	Stratum
1		0-1.5	0-1.5"
1	S1	2	1.5-2.7
2		2.74	2.74
3	S1	2	1.5-2.7
4	S2	4	2.74
5		6-12.5	6-12.5"
6		6-12.5	6-12.5"
7		6-12.5	6-12.5"
8		6-12.5	6-12.5"
9	S3	9	6-12.5
10		6-12.5	6-12.5"
11		6-12.5	6-12.5"
12		6-12.5	6-12.5"
13		6-12.5	6-12.5"
14		6-12.5	6-12.5"
15		6-12.5	6-12.5"
16		6-12.5	6-12.5"
17		6-12.5	6-12.5"
18		6-12.5	6-12.5"
19		6-12.5	6-12.5"
20		6-12.5	6-12.5"

TEST PIT LOGS - FOUNDATION REPORT

TEST PIT LOG		EXPLORATION NO.: TP-3	
Scullo Engineering Services, LLC		SHEET: 1 of 1	
Crainford, NJ		PROJECT NO: 24.000204.01	
Crainford, NJ		REVISION BY: Cory Karpaga	
Logged By: Glenn Zingroski		Final Test Pit Depth (ft.): 14	
Contractor: MTA, a Division of GZA		Date Start - Finish: 1/27/2020 - 1/27/2020	
Operator: MTA, a Division of GZA		Ground Surface Elev. (ft.): 79.5	
Type of Excavator: Trackhoe		Groundwater Depth (ft.)	
Excavator Model: Link Belt 135		Date	Time
		1/27/20	
Depth (ft.)	Sample No.	Sample Depth (ft.)	Stratum
1		0-0.5	0-0.5"
1	S1	2	0.5-2.5
2		2.59	2.59
3	S1	2	0.5-2.5
4	S2	6	2.5-5.5
5		5.5-14	5.5-14"
6		5.5-14	5.5-14"
7		5.5-14	5.5-14"
8		5.5-14	5.5-14"
9	S3	13	5.5-14
10		5.5-14	5.5-14"
11		5.5-14	5.5-14"
12		5.5-14	5.5-14"
13		5.5-14	5.5-14"
14		5.5-14	5.5-14"
15		5.5-14	5.5-14"
16		5.5-14	5.5-14"
17		5.5-14	5.5-14"
18		5.5-14	5.5-14"
19		5.5-14	5.5-14"
20		5.5-14	5.5-14"

TEST PIT LOG		EXPLORATION NO.: TP-3S	
Scullo Engineering Services, LLC		SHEET: 1 of 1	
Crainford, NJ		PROJECT NO: 24.000204.01	
Crainford, NJ		REVISION BY: Cory Karpaga	
Logged By: Glenn Zingroski		Final Test Pit Depth (ft.): 14	
Contractor: MTA, a Division of GZA		Date Start - Finish: 1/28/2020 - 1/28/2020	
Operator: MTA, a Division of GZA		Ground Surface Elev. (ft.): 80.5	
Type of Excavator: Trackhoe		Groundwater Depth (ft.)	
Excavator Model: Link Belt 135		Date	Time
		1/28/20	
Depth (ft.)	Sample No.	Sample Depth (ft.)	Stratum
1		0-1.5	0-1.5"
1	S1	1	0-1.5
2	S2	2	1.5-2.5
3		2.5-5.5	2.5-5.5"
4	S3	4	2.5-5.5
5		5.5-14	5.5-14"
6		5.5-14	5.5-14"
7		5.5-14	5.5-14"
8	S4	8	5.5-14
9		5.5-14	5.5-14"
10		5.5-14	5.5-14"
11		5.5-14	5.5-14"
12		5.5-14	5.5-14"
13		5.5-14	5.5-14"
14		5.5-14	5.5-14"
15		5.5-14	5.5-14"
16		5.5-14	5.5-14"
17		5.5-14	5.5-14"
18		5.5-14	5.5-14"
19		5.5-14	5.5-14"
20		5.5-14	5.5-14"



83 MYRTLE STREET SUPPORTIVE HOUSING
BLOCK 573, LOTS 9, 10 & 12/02
CRANFORD TOWNSHIP, UNION COUNTY, NEW JERSEY

GRADING PLAN

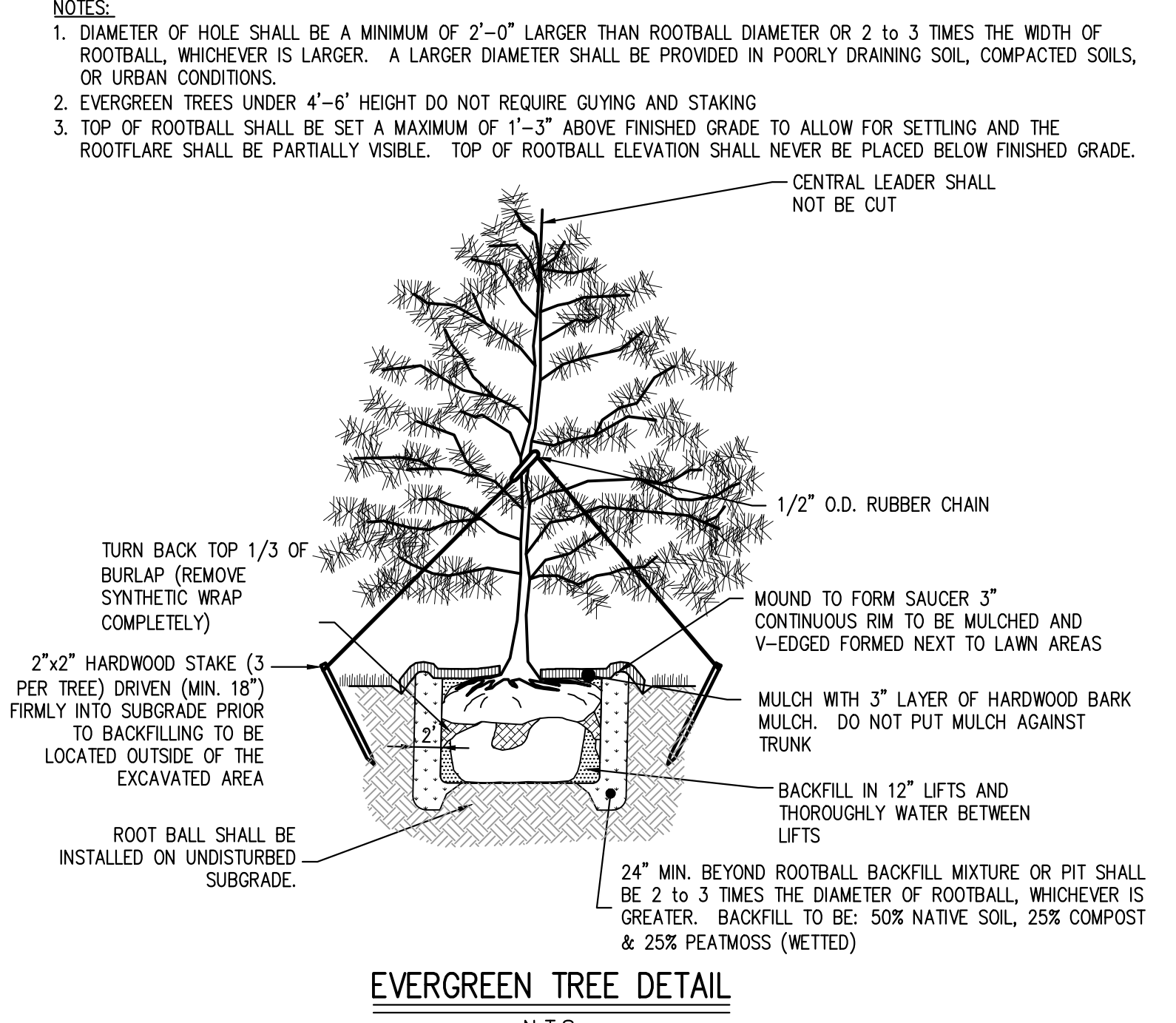
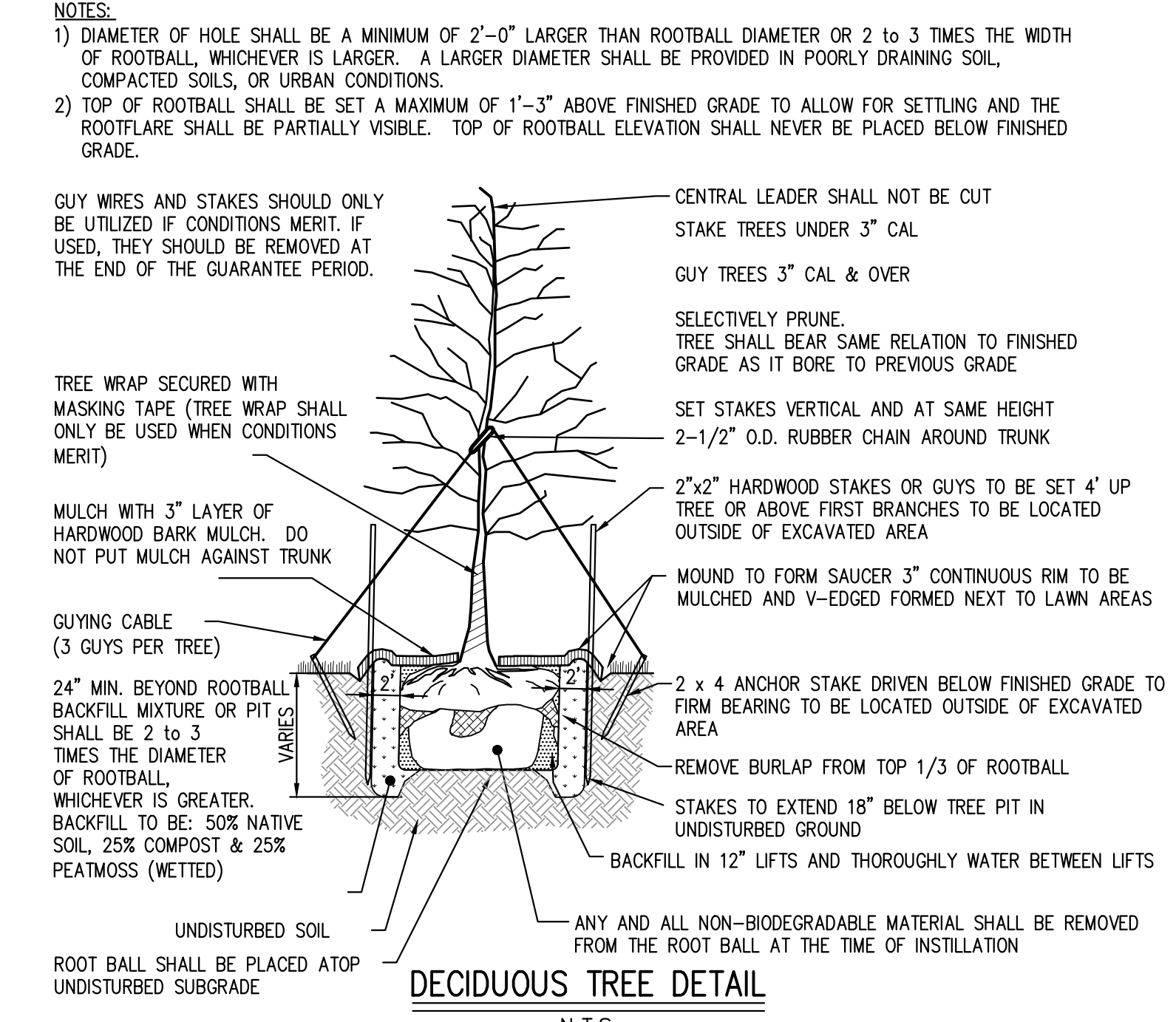
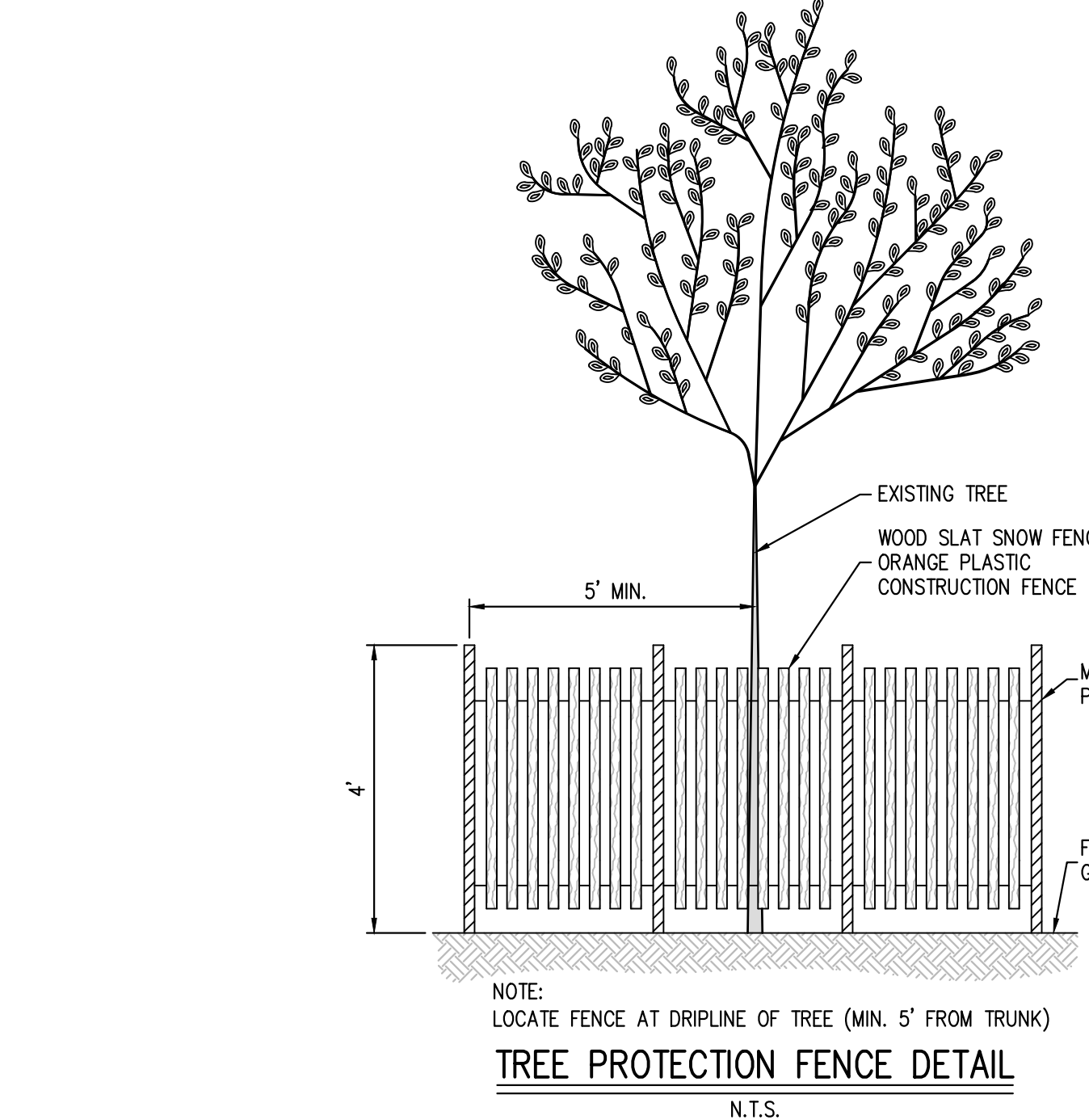
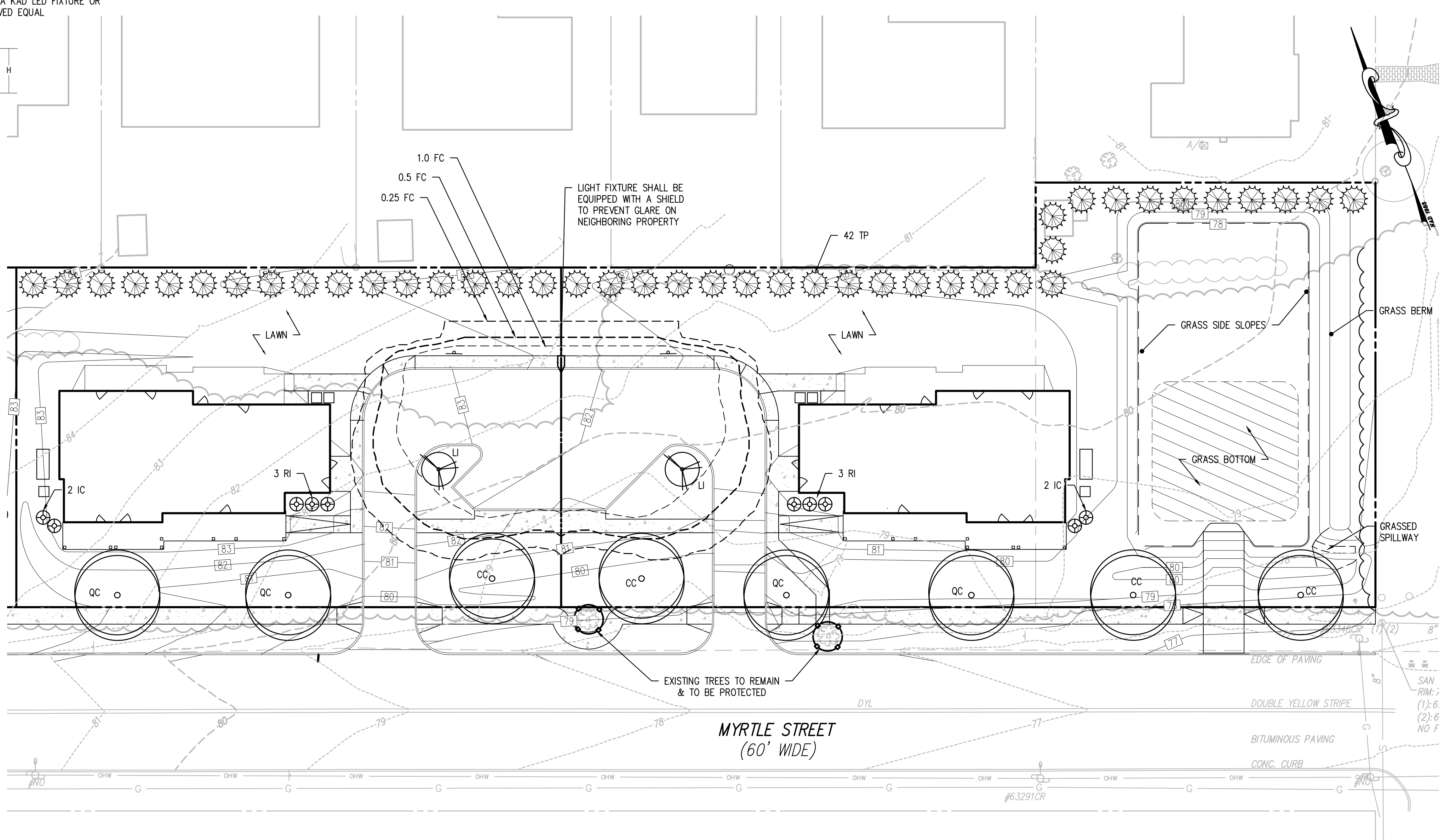
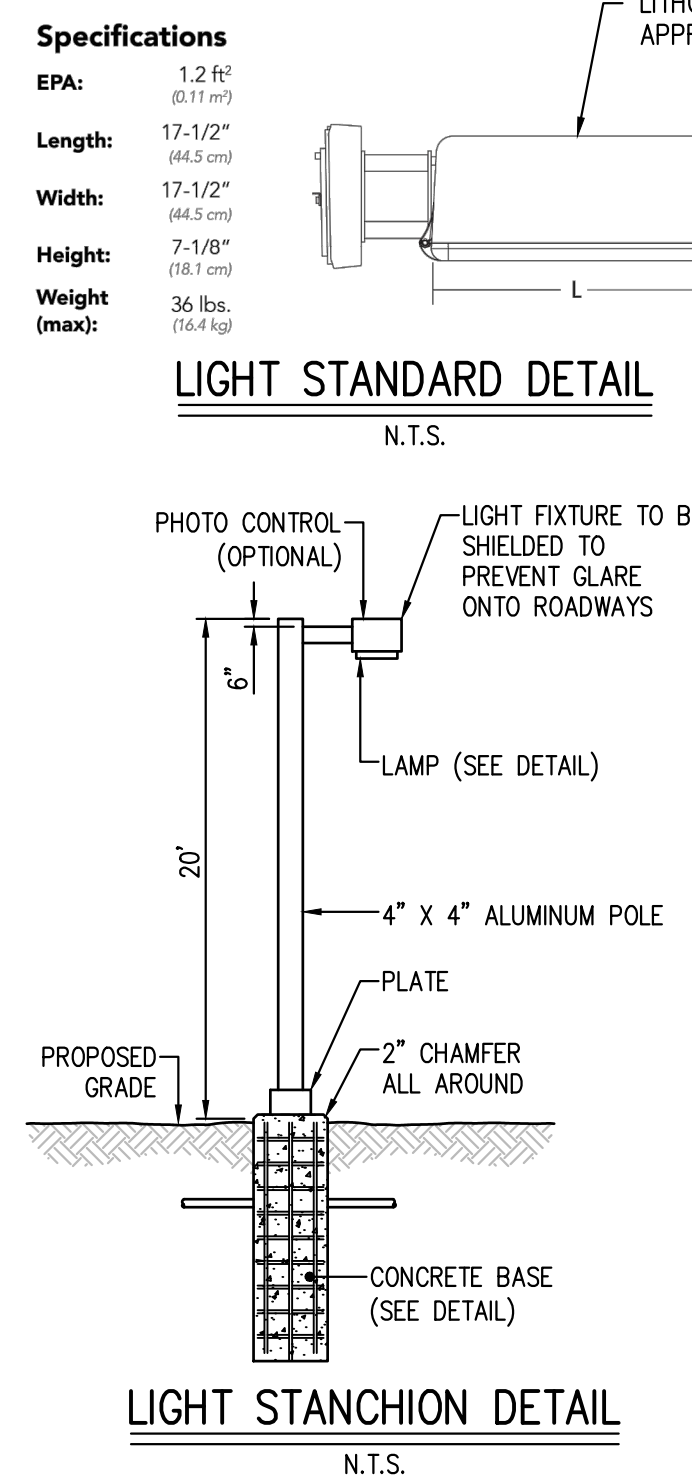
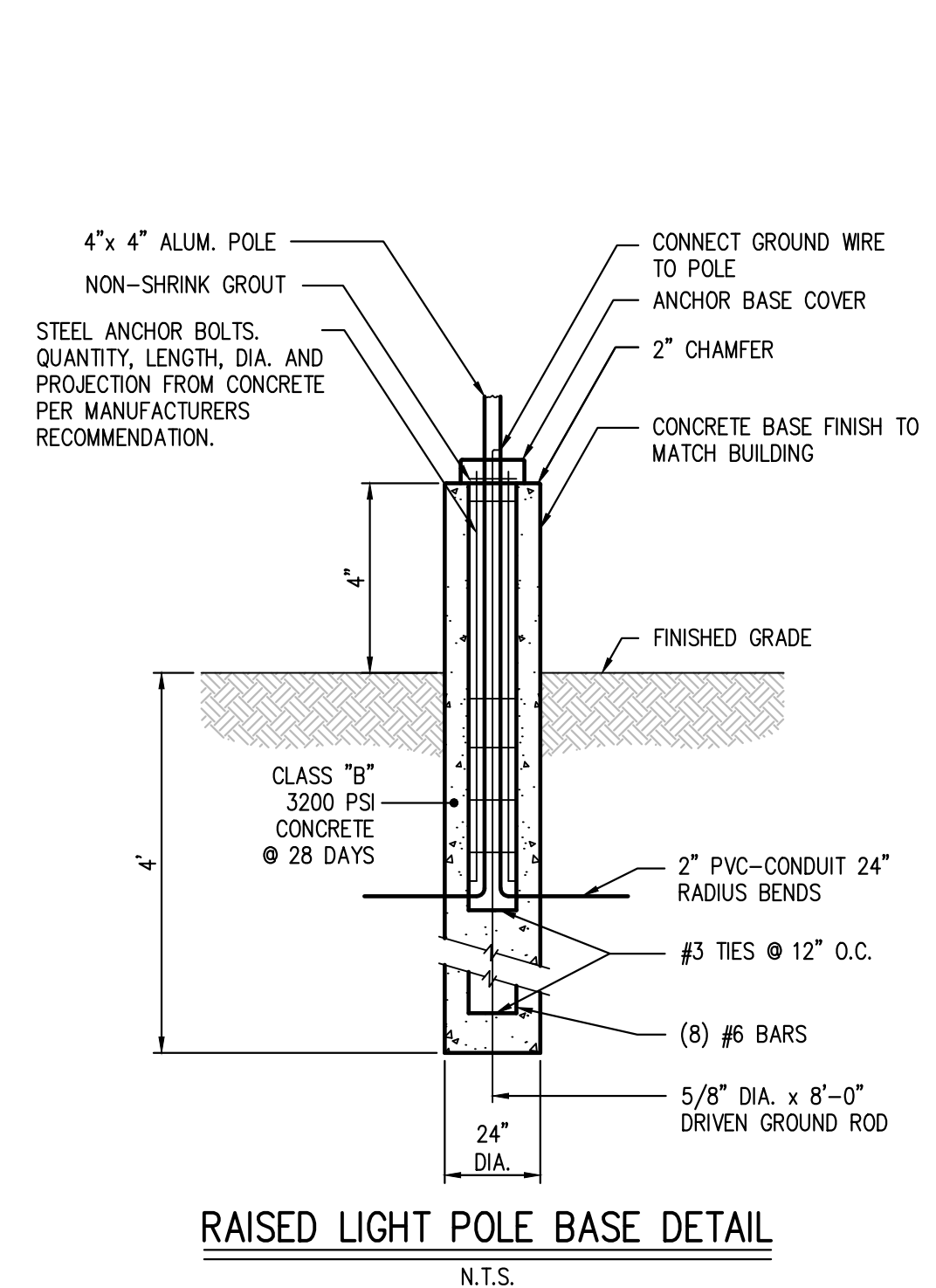
756 HADDON AVENUE
COLLINGSWOOD, NEW JERSEY 08108

PROJECT NO: K&A 001.01
SCALE: 1" = 20'
SHEET: 4 OF 9
DATE: 11/30/2022
DRAWING: C0301

DATE	ISSUE NO.	BY	APPR.
11/30/2022	2	JTS	JTS
5/9/2022	1	JTS	JTS

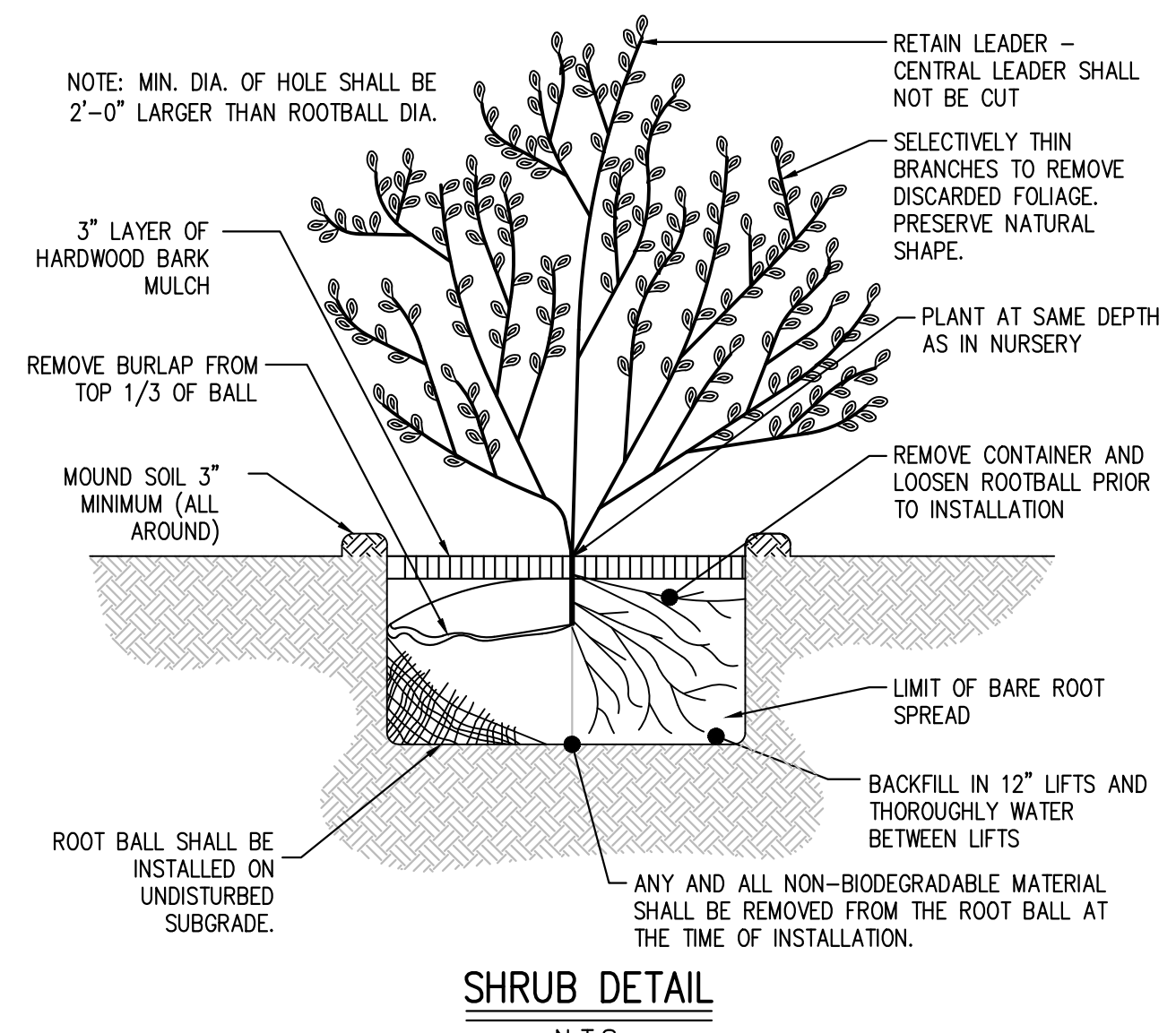
DATE: 02/28/2022, LAST MODIFIED ON: 02/28/2022

SCULLO ENGINEERING SERVICES, LLC (PROJECT MANAGER) - SHARON WOLFE/PROJECT MANAGER, JASON T. SCULLO, P.E., P.P. (PROJECT MANAGER) - JASON T. SCULLO, P.E., P.P. (PROJECT MANAGER)



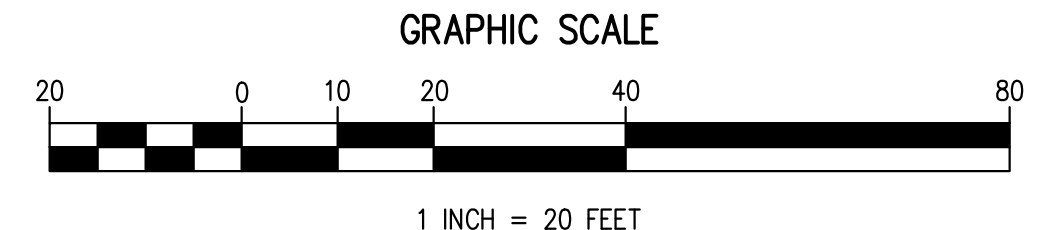
LIGHTING SCHEDULE

SYMBOL	LABEL	QUANTITY	EXISTING/PROPOSED	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LAMP	NUMBER OF LAMPS	LUMENS PER LAMP	WATTAGE
○	A	1	PROPOSED	LITHONIA LIGHTING	KAD LED 60C 1000 40K R4 MVOLT	KAD, LED, 60 LED, 1 AMP MVOLT DRIVER, 4000K, TYPE 4 OPTICS.	LED	1	20693	216



LANDSCAPE SCHEDULE

SYMBOL	LABEL	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS	QUANTITY
○	CC	CARPINUS CAROLINIANA	AMERICAN HORNBEAM	2 1/2"-3" CAL. 10'-12' HT.	B & B	4
○	QC	QUERCUS COCCINEA	SCARLET OAK	2 1/2"-3" CAL. 10'-12' HT.	B & B	4
SUB TOTAL						8
○	LI	LAGERSTROEMIA	CREPE MYRTLE	8' HT.	B & B	2
SUB TOTAL						2
○	TP	THUJA PLICATA	GREEN GIANT ARBORVITAE	6'-8' HT.	B & B	42
SUB TOTAL						42
○	IC	ILEX CRENATA 'STEEDS'	STEEDS JAPANESE HOLLY	24"-36" HT.	NO. 2 CAN	4
○	RI	AZALEA INDICA	RHODODENDRON INDICUM	24"-36" HT.	NO. 2 CAN	6
SUB TOTAL						10



811
 Know what's below.
 Call before you dig.

SCULLO ENGINEERING SERVICES, LLC
 137 S. NEW YORK AVENUE, SUITE 2
 ATLANTIC CITY, NEW JERSEY 08401
 PHONE: (609) 300-5171
 www.sculloengineering.com

JASON T. SCULLO, P.E., P.P.
 PROFESSIONAL ENGINEER, NEW JERSEY LICENSE NO. 24620458000
 PROFESSIONAL PLANNER, NEW JERSEY LICENSE NO. 3310026400

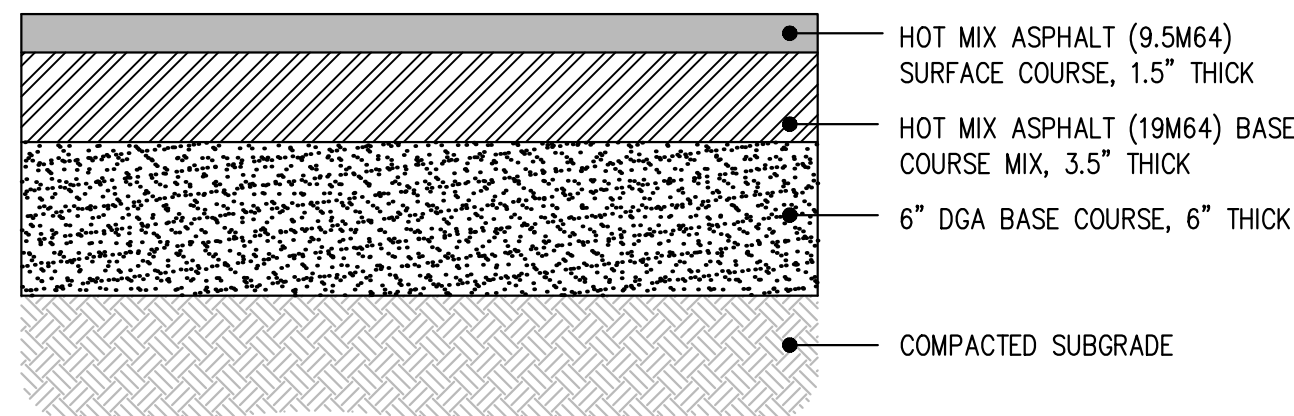
83 MYRTLE STREET SUPPORTIVE HOUSING
 BLOCK 973, LOTS 9, 10 & 12.02
 CRANFORD TOWNSHIP, UNION COUNTY, NEW JERSEY

LANDSCAPE AND LIGHTING PLAN

756 HADDON AVENUE
 COLLINGSWOOD, NEW JERSEY 08108

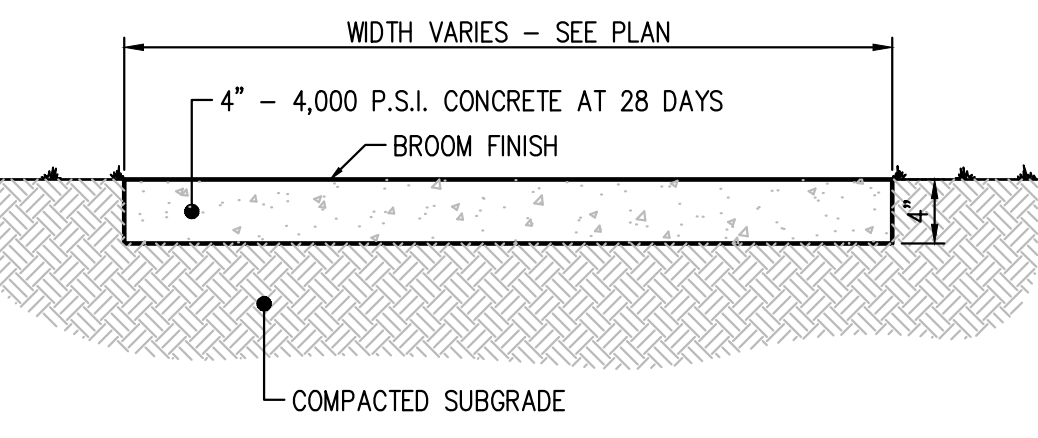
PROJECT NO.	DATE	REVISION	BY	APPR.
K&A 001.01	11/30/2022	2	TOWNSHIP COMPLETENESS REVIEW	JTS
	5/9/2022	1	INITIAL SUBMISSION	JTS
			SUBMISSION/REVISION	

SCALE: 1" = 20'
 SHEET: 6 OF 9
 C0501



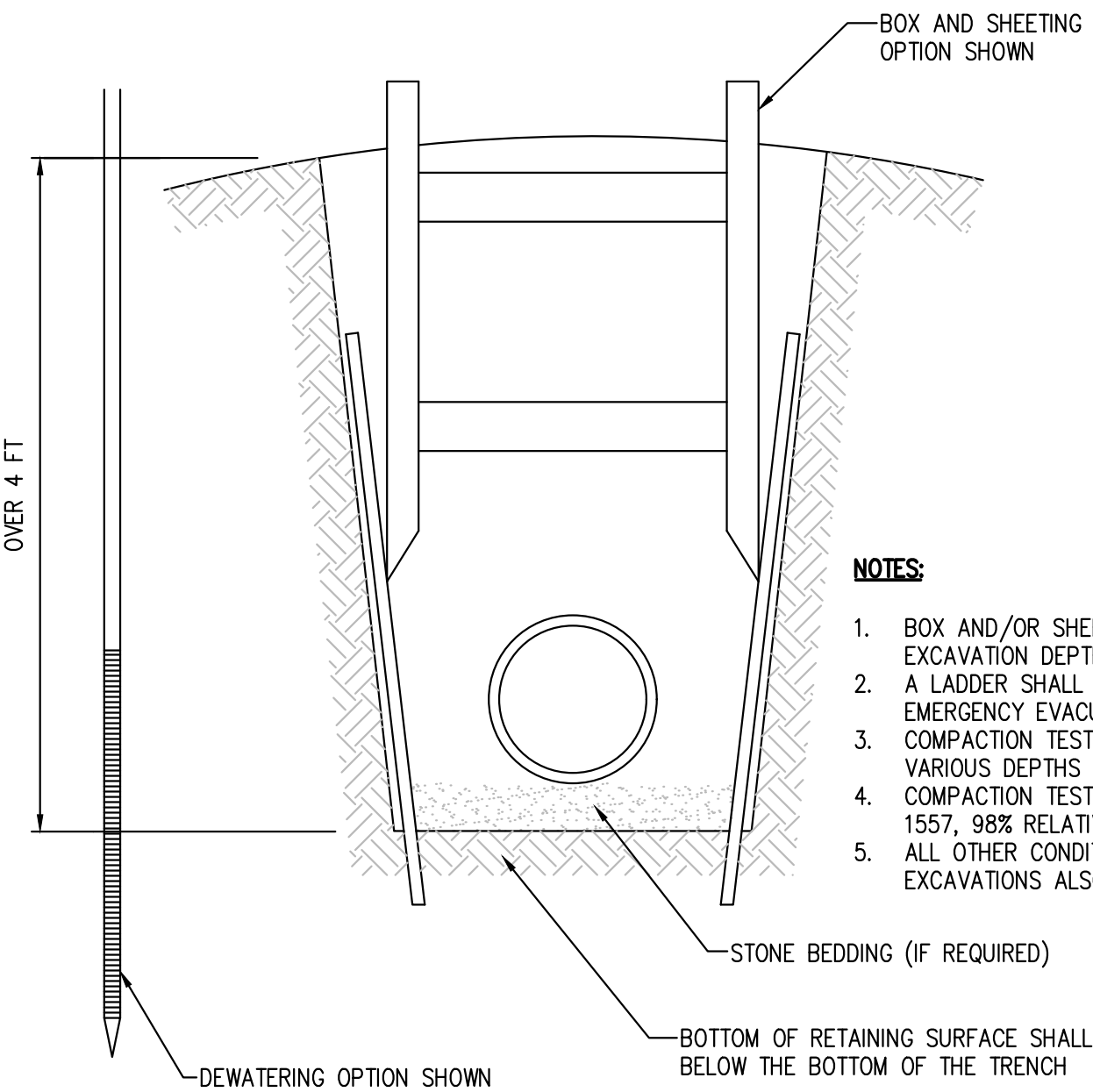
- NOTES:
- THE DENSE GRADED AGGREGATE BASE COURSE SHALL CONFORM TO SECTION 901.10 OF THE NJDOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2007).
 - ALL SUBGRADES SHALL BE CONSIDERED "POOR", UNLESS THE APPLICANT PROVES OTHERWISE THROUGH CBR TESTING OR FIELD EVALUATION OF SOIL CLASSIFICATION. TEST RESULTS SHALL BE REVIEWED BY THE MUNICIPAL ENGINEER.
 - RSIS PAVEMENT SECTION FOR RURAL LANES, RURAL STREETS, CUL-DE-SACS, AND ALLEYS.

PAVING DETAIL
N.T.S.



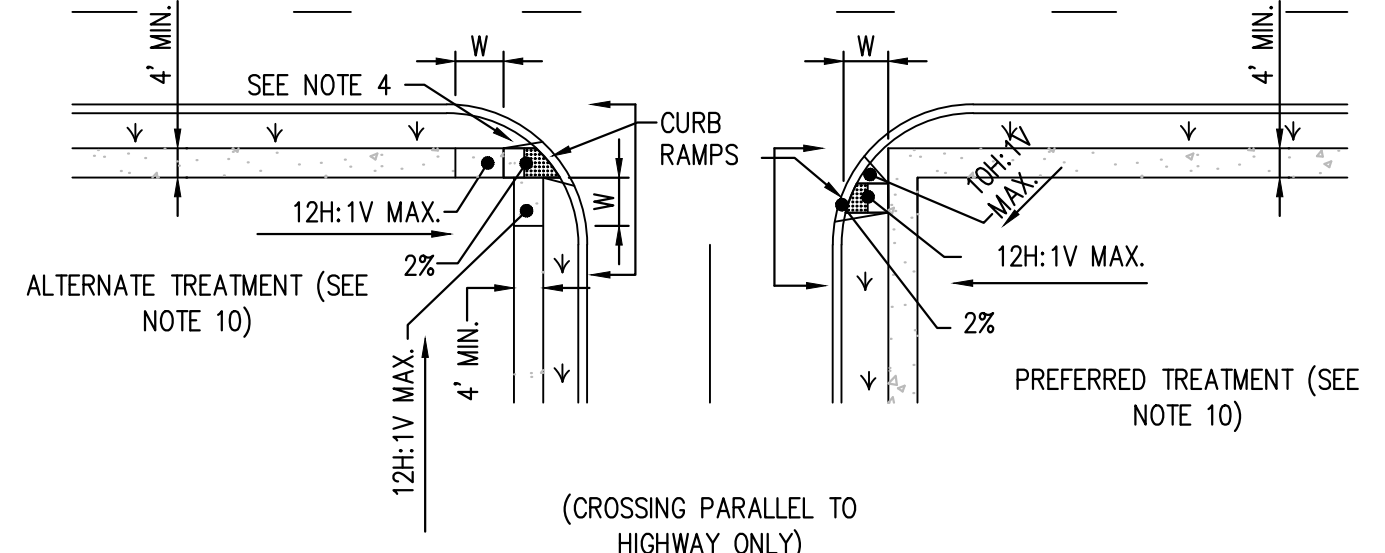
- NOTES:
- SIDEWALK SHALL BE MINIMUM 4" WIDE AND 4" THICK.
 - EXPANSION JOINTS SHALL BE 1/2" WIDE AND PROVIDED AT INTERVALS NO GREATER THAN 20 FEET AND SHALL BE FILLED WITH 1/2" THICK CELLULAR COMPRESSION MATERIAL TO WITHIN 1/4" OF TOP OF WALK.
 - SURFACE GROOVES SHALL BE CUT AT LEAST 1/4" DEEP AT RIGHT ANGLES TO THE LINE OF SIDEWALK AND AT INTERVALS EQUAL TO SIDEWALK WIDTH.
 - SURFACE EDGES SHALL BE ROUNDED TO 1/2" RADIUS.
 - FINISH SHALL BE WOOD FLAT, FOLLOWED BY BROOMING TO A NEAT, WORKMANLIKE SURFACE.

CONCRETE SIDEWALK DETAIL
N.T.S.



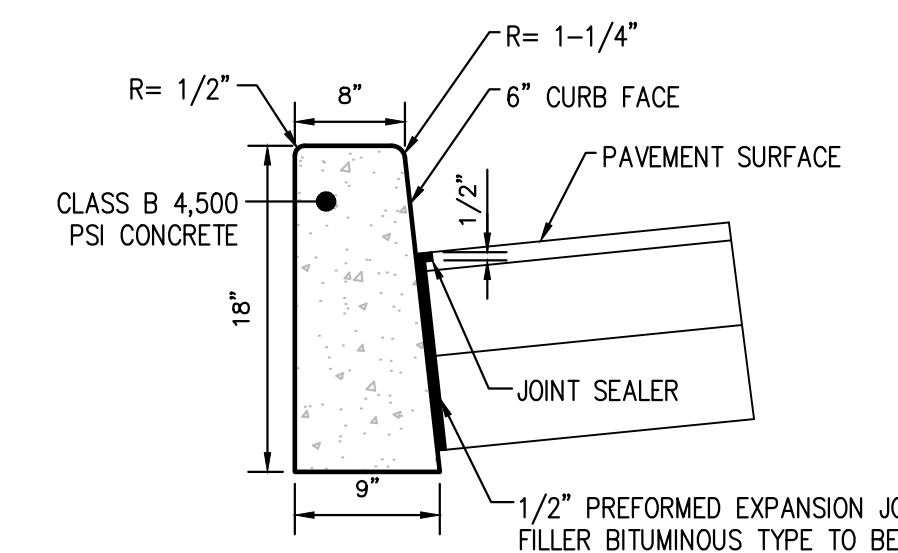
- NOTES:
- BOX AND/OR SHEETING SHALL BE USED WHEN EXCAVATION DEPTH EXCEEDS 5 FT.
 - A LADDER SHALL BE AVAILABLE AT ALL TIMES FOR EMERGENCY EVACUATION.
 - COMPACTION TESTS SHALL BE CONDUCTED AT VARIOUS DEPTHS AND LOCATIONS.
 - COMPACTION TESTS SHALL COMPLY WITH ASTM 1557, 98% RELATIVE COMPACTION.
 - ALL OTHER CONDITIONS FOR SHALLOW EXCAVATIONS ALSO APPLY.
 - SIX INCHES OF STABILIZED BASE (MIX 1-2), SHALL THEN BE PLACED IN TWO THREE INCH LIFTS TO FINISHED GRADE.
 - IF GROUNDWATER IS ENCOUNTERED, MEANS OF TRENCH DEWATERING SHALL BE PROVIDED AND SHALL BE SHOWN ON THE PLANS AND IN THE SPECIFICATIONS.
 - THE TRENCH WALLS SHALL BE FULLY SUPPORTED DURING CONSTRUCTION. MINIMUM REQUIREMENTS SHALL INCLUDE TRENCH BOX(ES) AND STEEL PLATES TO THE BOTTOM OF THE TRENCH.
 - STONE BEDDING WILL BE REQUIRED WHEN CONDITIONS WARRANT. THE BEDDING WILL CONSIST OF AT LEAST SIX INCHES OF CRUSHED STONE SHAPED TO CRADLE THE PIPE.
 - SUCCESSING LIFTS SHALL NOT EXCEED ONE FOOT IN DEPTH. BACKFILL SHALL COMPLY WITH THE REQUIREMENTS STATED ABOVE FOR SHALLOW EXCAVATIONS.

TRENCH EXCAVATION DETAIL
N.T.S.



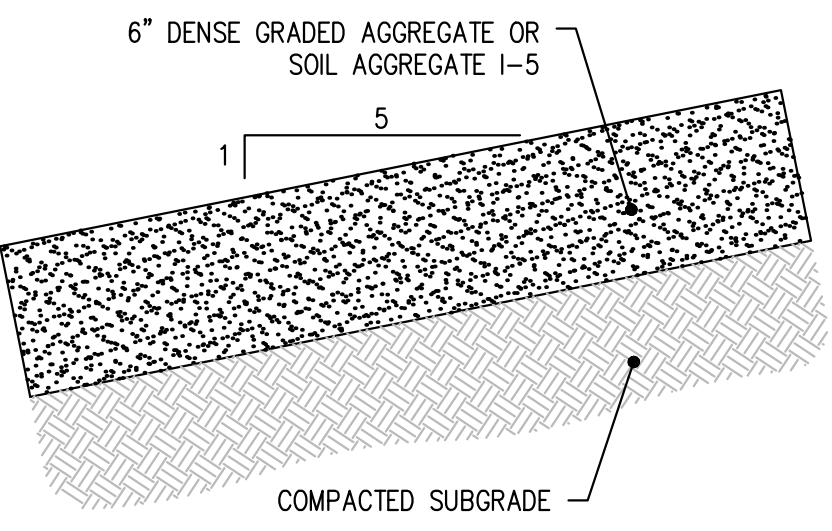
CURB RAMP TYPE 2, 5 OR 6	
H INCHES	W FEET
3	3
4	4
5	5
6	6
7	7
8	8
9	9

NJDOT TYPE VI CURB RAMP
N.T.S.

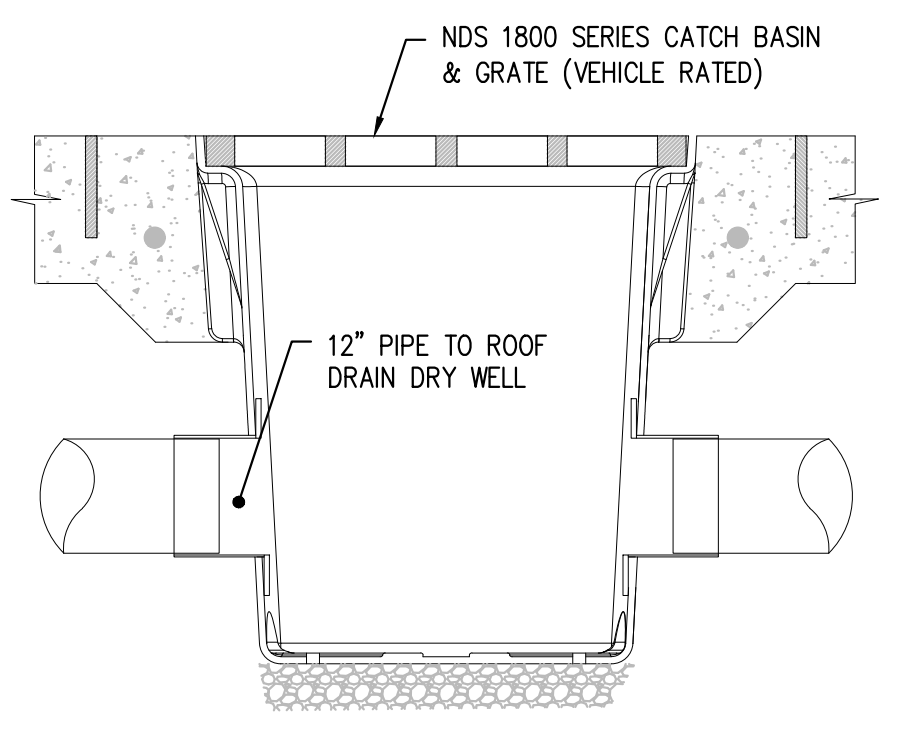


NOTE: WHITE CONCRETE CURBING SHALL BE CONSTRUCTED WHERE SPECIFIED BY COUNTY ENGINEER.

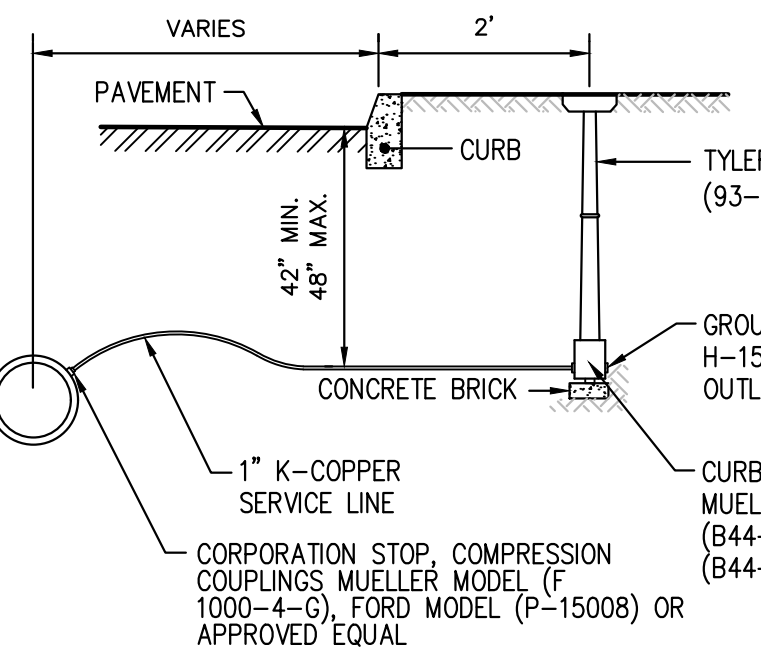
CURB DETAIL
N.T.S.



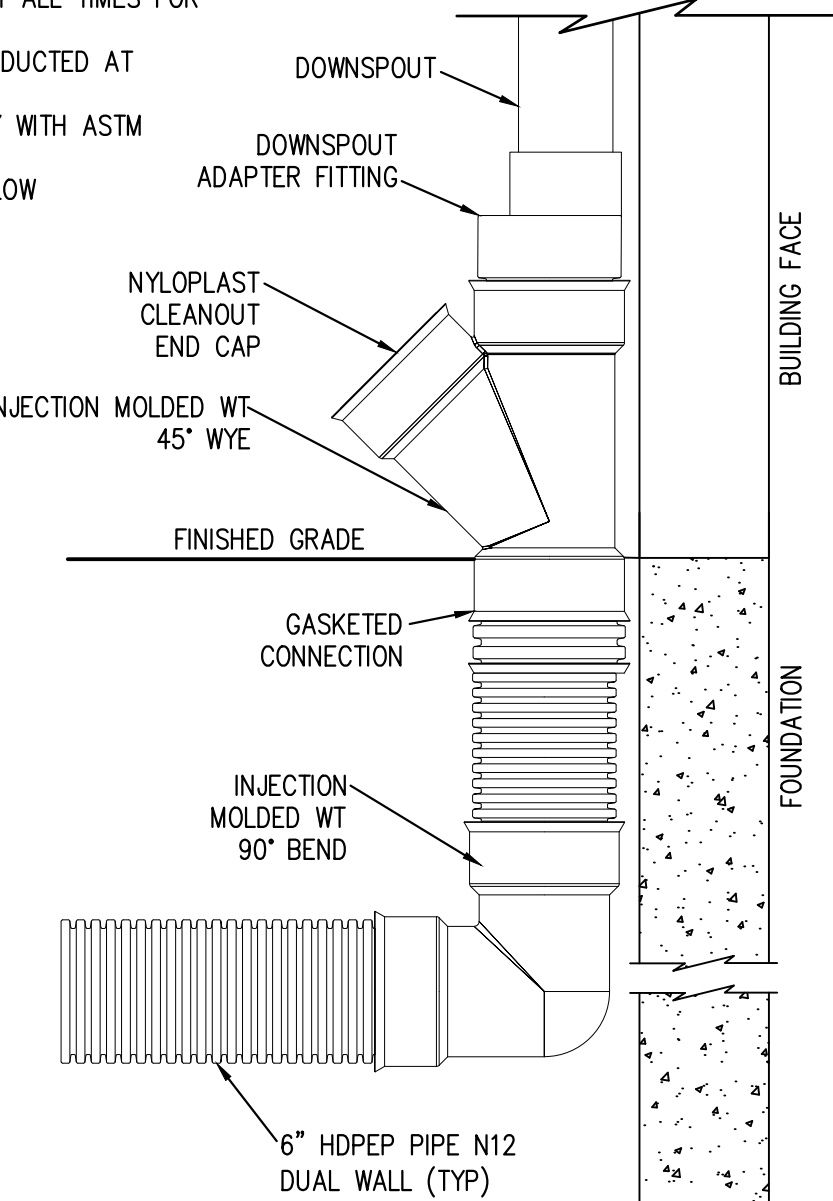
BASIN ACCESS SECTION
N.T.S.



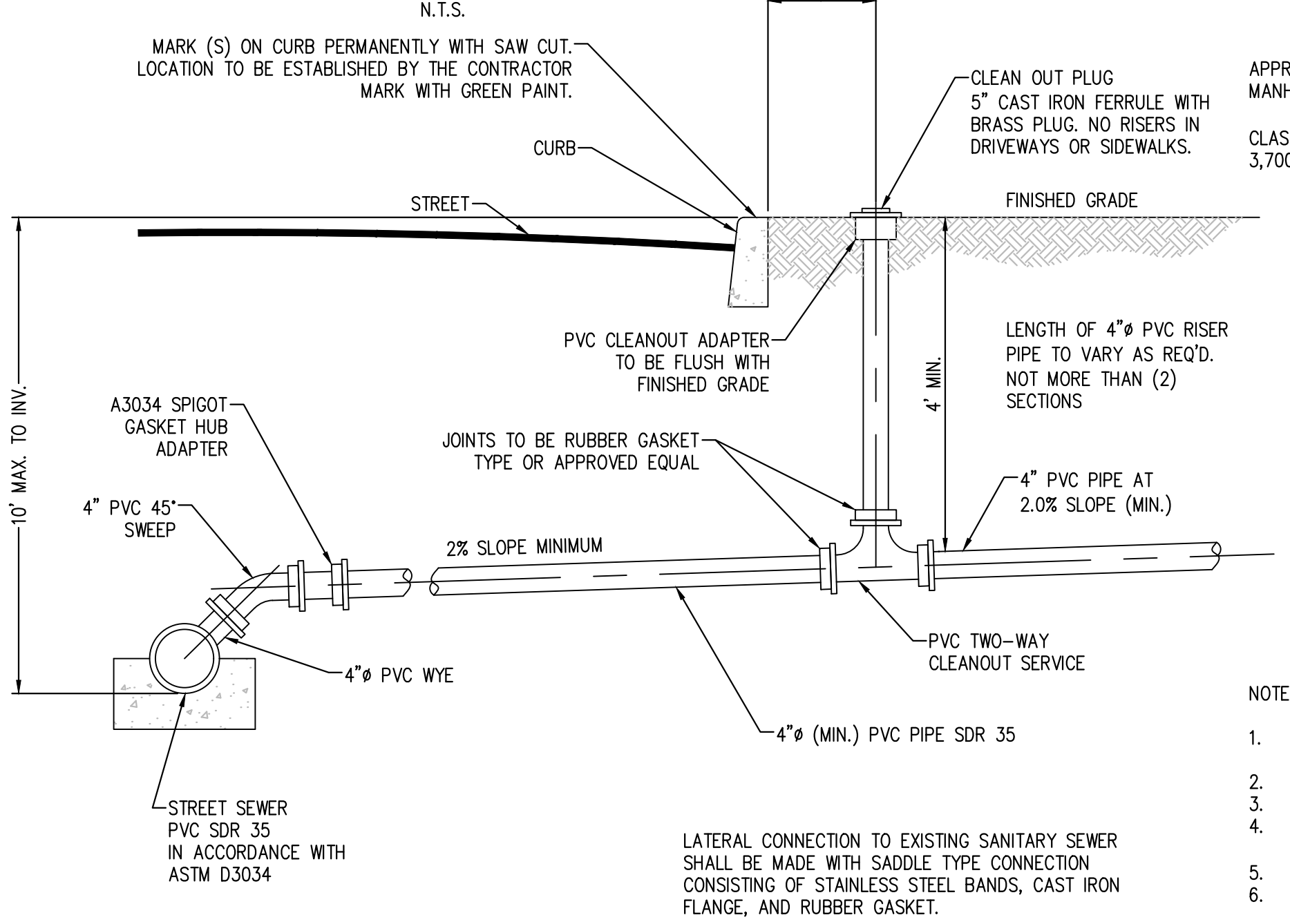
YARD INLET DETAIL
N.T.S.



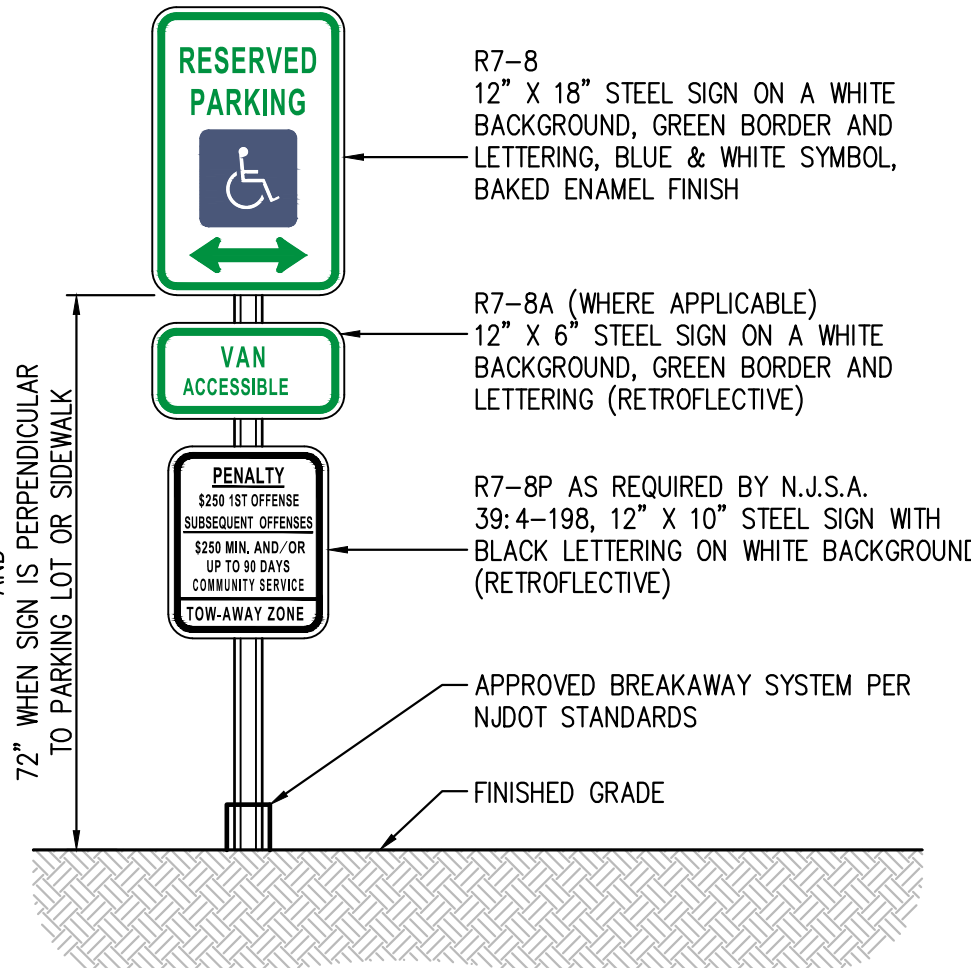
WATER SERVICE CONNECTION DETAIL
N.T.S.



ROOF DRAIN w/45° WYE CLEANOUT DETAIL
N.T.S.

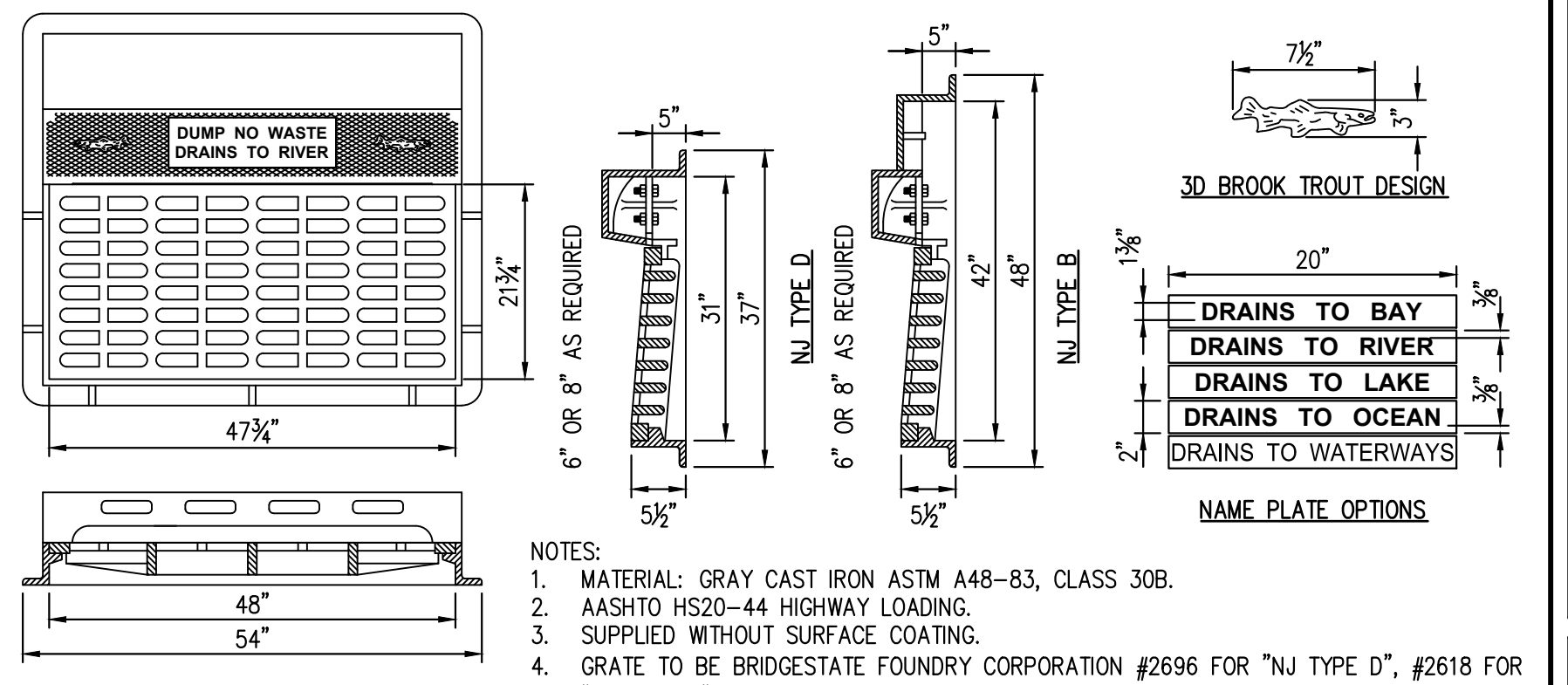


SANITARY SEWER SERVICE LATERAL DETAIL
N.T.S.

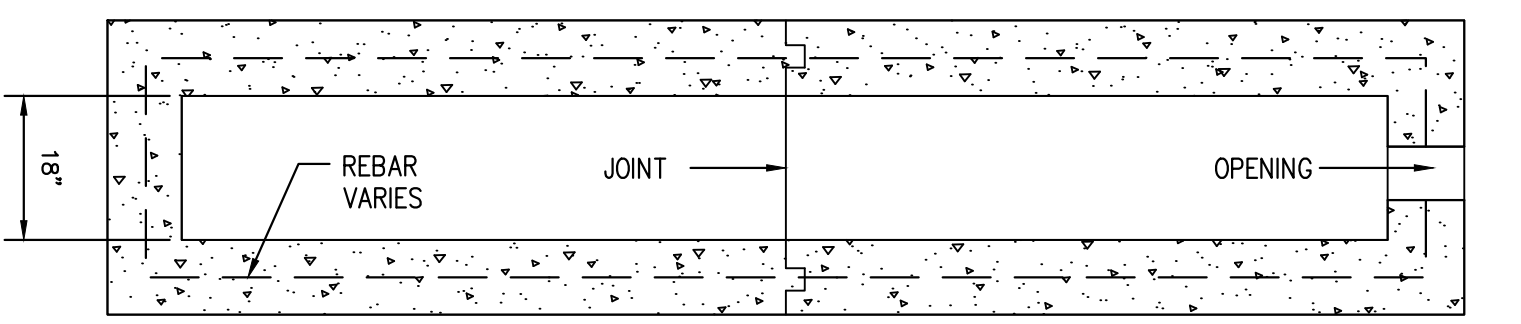


NOTE: SIGNAGE TO CONFORM WITH THE LATEST EDITION OF STANDARD SIGNS FEA MUTCD. ALL SIGNS SHALL BE MOUNTED ON BREAKAWAY SIGN POSTS & HAVE RETROREFLECTIVE SHEETING TYPE IV A PER NJDOT SPECIFICATION 916.4(2C) AND TABLE 916-5.

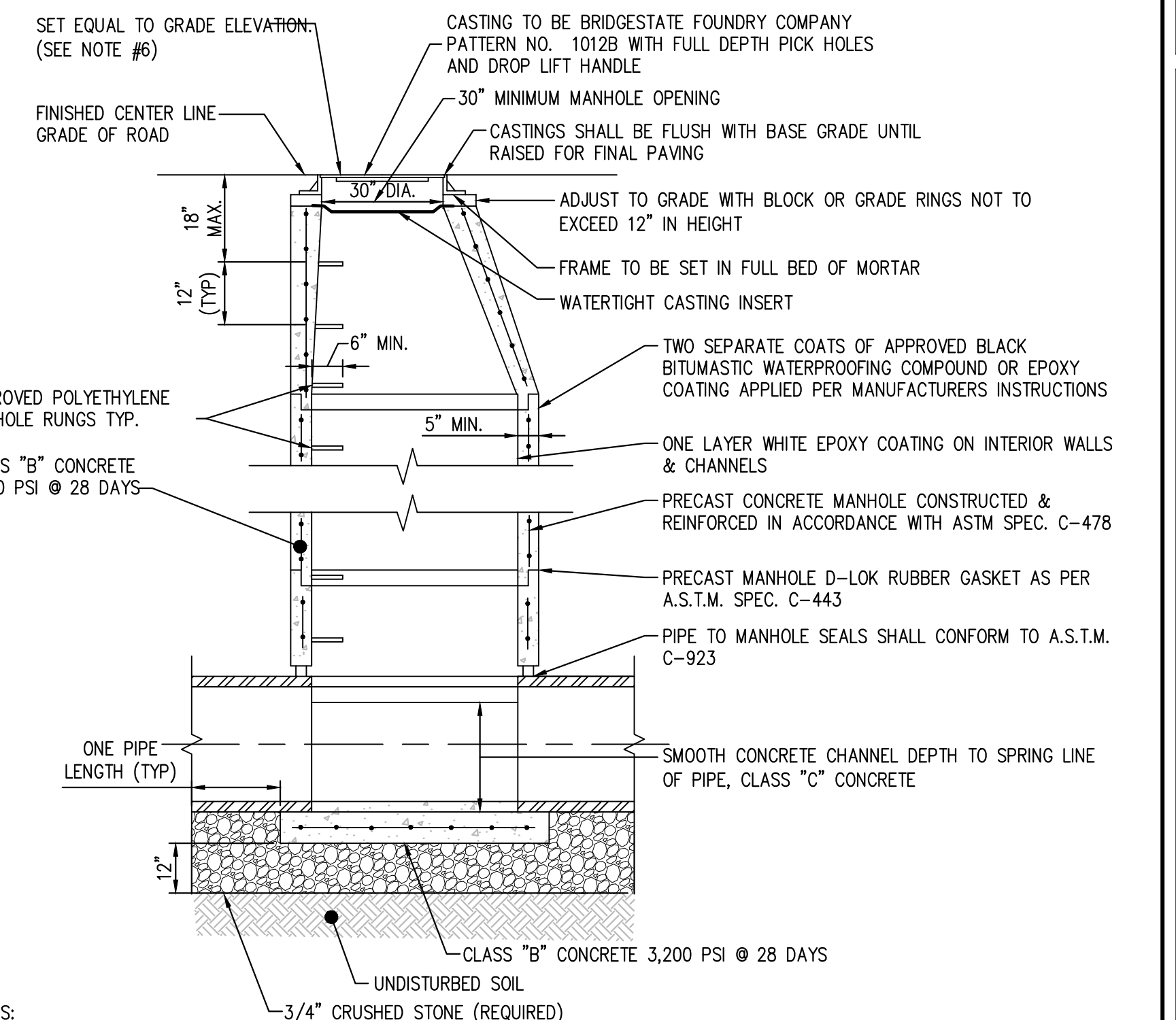
BARRIER FREE SIGN
N.T.S.



TYPE "B" BICYCLE SAFE GRATE & TYPE 'N-ECO' CURB PIECE
N.T.S.



TRENCH DRAIN
N.T.S.



- NOTES:
- IN GENERAL, FLAT TOP MANHOLES ARE NOT ACCEPTED UNLESS OTHERWISE AUTHORIZED BY THE CRANFORD M.U.A. ENGINEER IN WRITING.
 - CRUSHED CONCRETE AND ASPHALT ARE NOT ACCEPTABLE SUBSTITUTES FOR CRUSHED STONE BASE.
 - BRIDGESTATE PATTERN NO. 1203A IS NOT ACCEPTABLE.
 - RING RISERS ARE NOT PERMITTED FOR ADJUSTMENT OF FINAL GRADE CASTINGS, PER ENGINEERS APPROVAL. RINGS MUST BE TACK WELDED (4-LOCATIONS) TO CASTINGS.
 - THERE IS TO BE ONE LAYER OF WHITE EPOXY COATING ON THE INTERIOR OF THE MANHOLE WALLS AND CHANNELS.
 - RIM ELEVATION FOR THE MANHOLE CASTING SHALL BE SET EQUAL TO THE BASE COURSE GRADE ELEVATION, AND SUBSEQUENTLY RAISED TO THE TOP COURSE ELEVATION UNLESS OTHERWISE AUTHORIZED BY THE CRANFORD M.U.A. ENGINEER IN WRITING.

SANITARY SEWER PRECAST MANHOLE DETAIL
N.T.S.

EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS IS THE RESPONSIBILITY OF THE CLIENT. THE CLIENT SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CLIENT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES AND UTILITIES PRIOR TO CONSTRUCTION. THESE PLANS ARE NOT FOR CONSTRUCTION UNTIL ISSUED FOR CONSTRUCTION. APPEARANCES IN THE INTERLOCK.

811
Know what's below.
Call before you dig.

ALL DOCUMENTS PREPARED BY SCIULLO ENGINEERING SERVICES, LLC ARE INSTRUMENTS OF SERVICE. ANY REUSE WITHOUT WRITTEN PERMISSION OF SCIULLO ENGINEERING SERVICES, LLC IS STRICTLY PROHIBITED. SCIULLO ENGINEERING SERVICES, LLC SHALL NOT BE HELD LIABLE FOR ANY DAMAGE, LOSS, AND DEFENSES ARISING OUT OF OR RESULTING FROM THE USE OF THESE PLANS.

JASON T. SCIULLO, P.E., P.P.
PROFESSIONAL ENGINEER, NEW JERSEY LICENSE NO. 24620458000
PROFESSIONAL PLANNER, NEW JERSEY LICENSE NO. 351002629400

SCIULLO ENGINEERING SERVICES, LLC
137 S. NEW YORK AVENUE, SUITE 2
ATLANTIC CITY, NEW JERSEY 08401
PHONE: (609) 300-5171
www.sciulloengineering.com
NJ CERTIFICATE OF AUTHORIZATION NO. 2462029400

83 MYRTLE STREET SUPPORTIVE HOUSING
BLOCK 973, LOTS 9, 10 & 12/02
CRANFORD TOWNSHIP, UNION COUNTY, NEW JERSEY

DETAIL SHEET

756 HADDON AVENUE
COLLINGSWOOD, NEW JERSEY 08108

PROJECT NO.	DRAWING	DATE	BY	APPR.
K&A 001.01	7 OF 9	5/9/2022	JTS	
AS SHOWN				

COMPLETENESS REVIEW
TOWNSHIP SUBMISSION
INITIAL SUBMISSION
SUBMISSION/REVISION

DATE

ISSUE NO.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

72

73

74

75

76

77

78

79

80

81

82

83

84

85

86

87

88

89

90

91

92

93

94

95

96

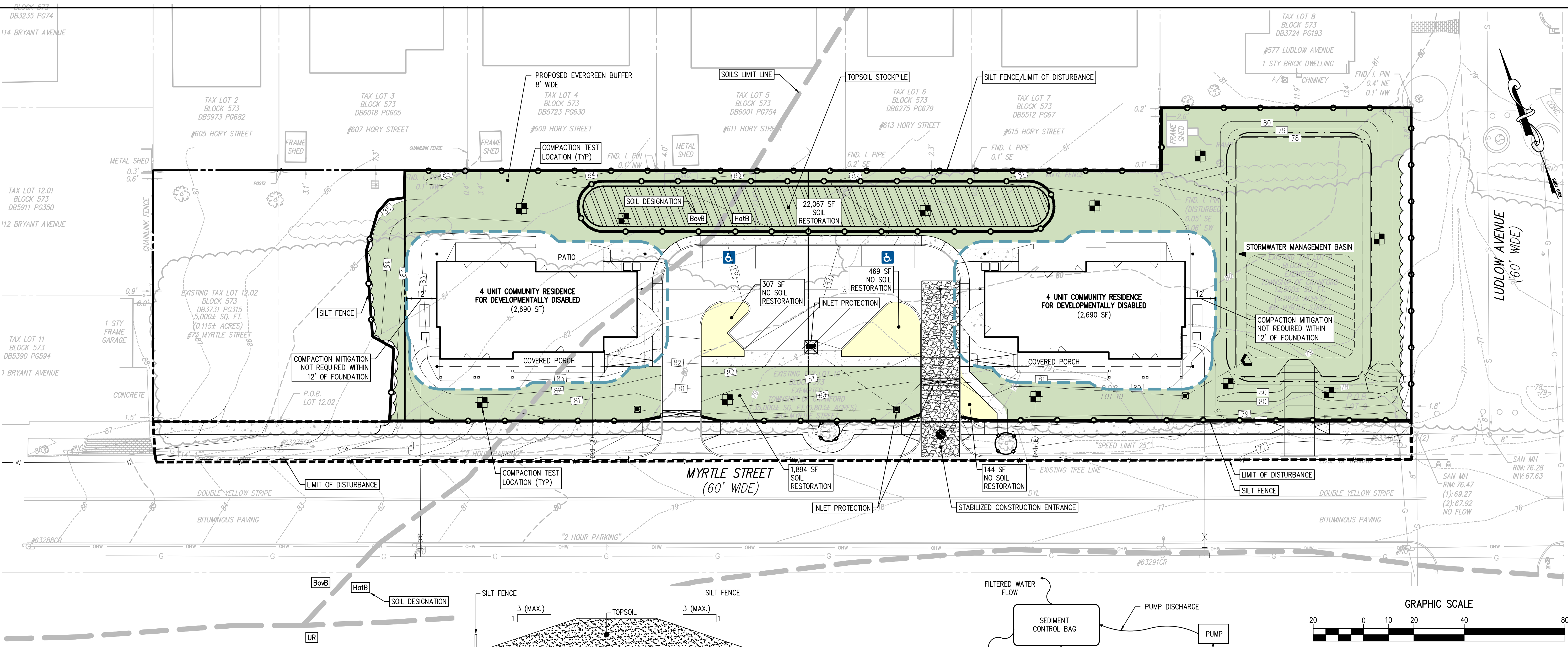
97

98

99

100

817 S. NEW YORK AVENUE, SUITE 2 ATLANTIC CITY, NEW JERSEY 08401
 PHONE: (609) 300-5171 www.sciculloengineering.com
 NJ CERTIFICATE OF AUTHORIZATION NO. 246A28290700
 ALL DOCUMENTS PREPARED BY SCICULLO ENGINEERING SERVICES, LLC ARE INSTRUMENTS OF SERVICE AND SHALL BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. ANY REUSE WITHOUT WRITTEN VERIFICATION OF ADAPTATION BY SCICULLO ENGINEERING SERVICES, LLC FOR ANY OTHER PROJECT IS STRICTLY PROHIBITED. SCICULLO ENGINEERING SERVICES, LLC AND ITS EMPLOYEES SHALL NOT BE HELD LIABLE FOR NEGLIGENCE, MALPRACTICE, OR ANY OTHER PROFESSIONAL LIABILITY OR LEGAL PROCEEDING ARISING OUT OF OR RESULTING FROM THE PERFORMANCE OF PROFESSIONAL SERVICES, AND DEFENSES ARISING OUT OF OR RESULTING FROM THE PERFORMANCE OF PROFESSIONAL SERVICES. THESE PLANS ARE NOT FOR CONSTRUCTION UNTIL ISSUED FOR CONSTRUCTION. APPEARANCES IN THE INTERLOCK.



SOILS DATA

BovB BOONTON-URBAN LAND-HALEDON COMPLEX 0-8% SLOPES
 HatB HALEDON-URBAN LAND-HASBROUCK COMPLEX 0-8% SLOPES
 UR URBAN LAND

SOILS DATA OBTAINED FROM NATURAL RESOURCES CONSERVATION SERVICES (NRCS) U.S. DEPARTMENT OF AGRICULTURE.
 ALL SOIL EROSION AND SEDIMENT CONTROL IMPLEMENTATION SHALL BE IN ACCORDANCE WITH STANDARDS SET FORTH BY THE SOMERSET UNION SOIL CONSERVATION DISTRICT SOIL.

SOIL DE-COMPACTION AND TESTING REQUIREMENTS

- SOIL COMPACTION TESTING REQUIREMENTS**
- SUBGRADE SOILS PRIOR TO THE APPLICATION OF TOPSOIL (SEE PERMANENT SEEDING AND STABILIZATION NOTES FOR TOPSOIL REQUIREMENTS) SHALL BE FREE OF EXCESSIVE COMPACTION TO A DEPTH OF 6.0 INCHES TO ENHANCE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.
 - AREAS OF THE SITE WHICH ARE SUBJECT TO COMPACTION TESTING AND/OR MITIGATION ARE GRAPHICALLY DENOTED ON THE CERTIFIED SOIL EROSION CONTROL PLAN.
 - COMPACTION TESTING LOCATIONS ARE DENOTED ON THE PLAN. A COPY OF THE PLAN OR PORTION OF THE PLAN SHALL BE USED TO MARK LOCATIONS OF TESTS, AND ATTACHED TO THE COMPACTION REMEDIATION FORM, AVAILABLE FROM THE LOCAL SOIL CONSERVATION DISTRICT. THIS FORM MUST BE FILLED OUT AND SUBMITTED PRIOR TO RECEIVING A CERTIFICATE OF COMPLIANCE FROM THE DISTRICT.
 - IN THE EVENT THAT TESTING INDICATES COMPACTION IN EXCESS OF THE MAXIMUM THRESHOLDS INDICATED FOR SIMPLIFIED TESTING METHOD (SEE DETAIL BELOW), THE CONTRACTOR/OWNER SHALL HAVE THE OPTION TO PERFORM EITHER (1) COMPACTION MITIGATION OVER THE ENTIRE MITIGATION AREA DENOTED ON THE PLAN (EXCLUDING EXEMPT AREAS), OR (2) PERFORM ADDITIONAL, MORE DETAILED TESTING TO ESTABLISH THE LIMITS OF EXCESSIVE COMPACTION WHEREUPON ONLY THE EXCESSIVELY COMPACTED AREAS WOULD REQUIRE COMPACTION MITIGATION. ADDITIONAL DETAILED TESTING SHALL BE PERFORMED BY A TRAINED, LICENSED PROFESSIONAL.

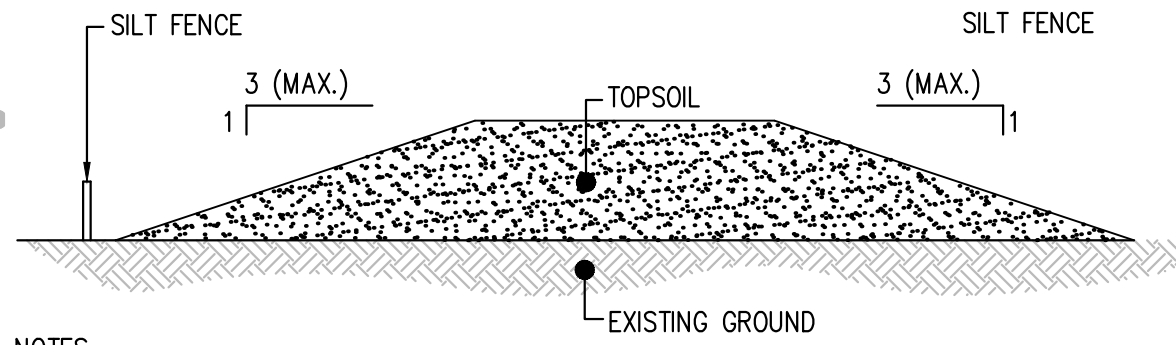
- COMPACTION TESTING METHODS**
- PROBING WIRE TEST (SEE DETAIL)
 - HAND-HELD PENETROMETER TEST (SEE DETAIL)
 - TUBE BULK DENSITY TEST (LICENSED PROFESSIONAL ENGINEER REQUIRED)
 - NUCLEAR DENSITY TEST (LICENSED PROFESSIONAL ENGINEER REQUIRED)

NOTE: ADDITIONAL TESTING METHODS WHICH CONFORM TO ASTM STANDARDS AND SPECIFICATIONS, AND WHICH PRODUCE A DRY WEIGHT, SOIL BULK DENSITY MEASUREMENT MAY BE ALLOWED SUBJECT TO DISTRICT APPROVAL.

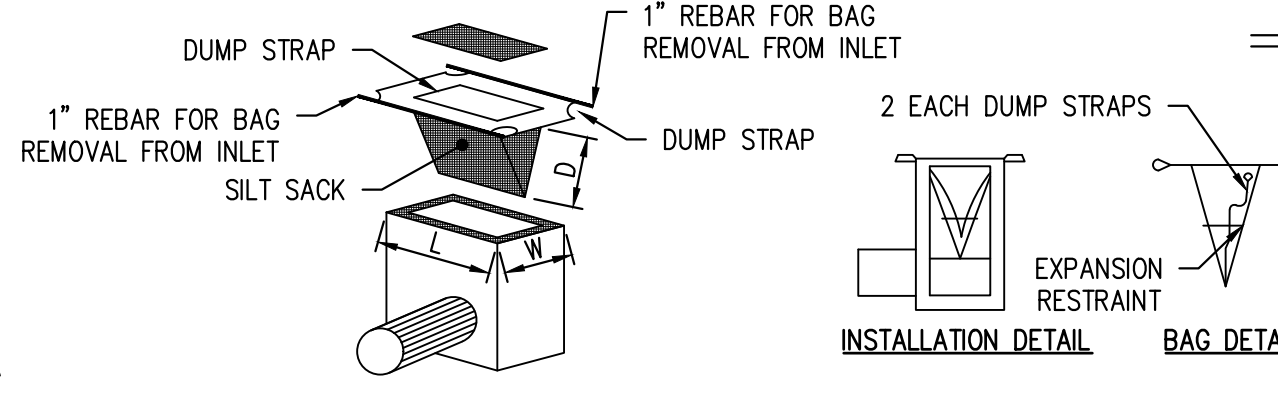
SOIL COMPACTION TESTING IS NOT REQUIRED IF/WHEN SUBSOIL COMPACTION REMEDIATION (SCARIFICATION/TILLAGE (6" MINIMUM DEPTH) OR SIMILAR) IS PROPOSED AS PART OF THE SEQUENCE OF CONSTRUCTION.

PROCEDURES FOR SOIL COMPACTION MITIGATION
 PROCEDURES SHALL BE USED TO MITIGATE EXCESSIVE SOIL COMPACTION PRIOR TO PLACEMENT OF TOPSOIL AND ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.

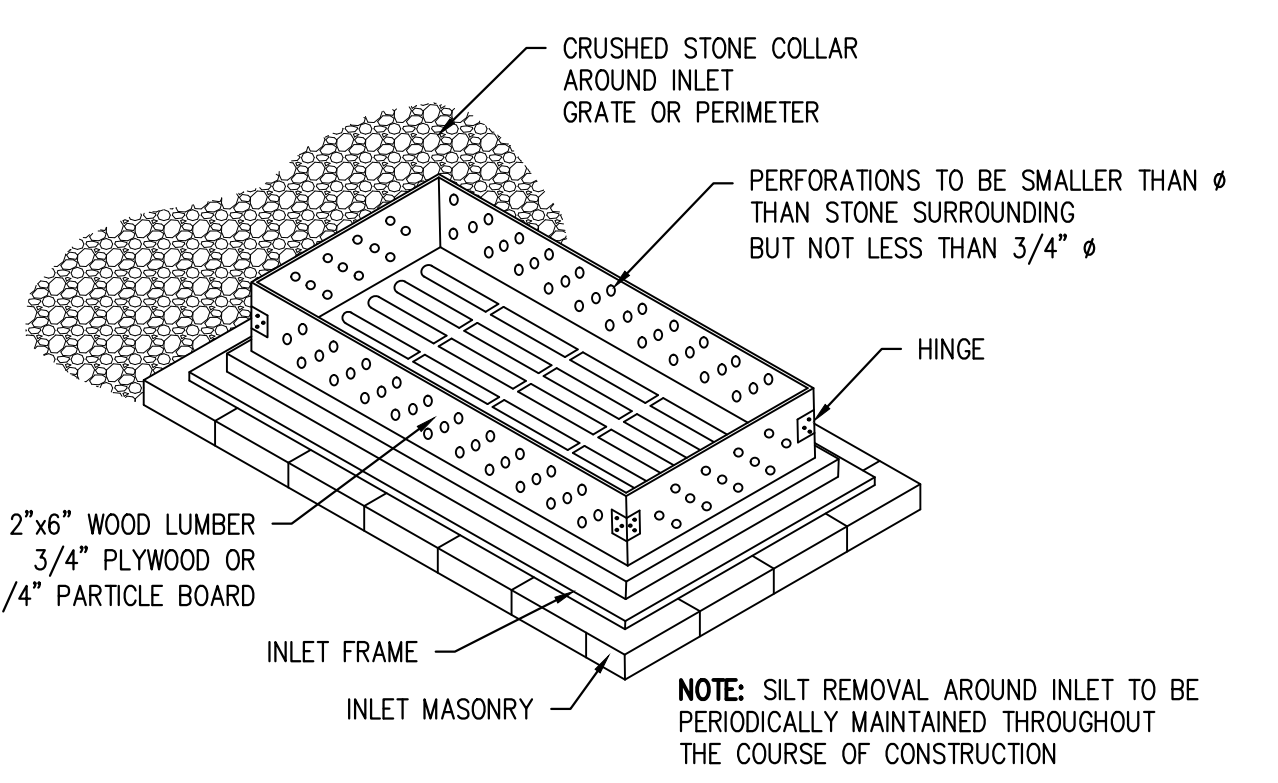
RESTORATION OF COMPACTED SOILS SHALL BE THROUGH DEEP SCARIFICATION/TILLAGE (6" MINIMUM DEPTH) WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLE, IRRIGATION SYSTEMS, ETC.). IN THE ALTERNATIVE, ANOTHER METHOD AS SPECIFIED BY A NEW JERSEY LICENSED PROFESSIONAL ENGINEER MAY BE SUBSTITUTED SUBJECT TO DISTRICT APPROVAL.



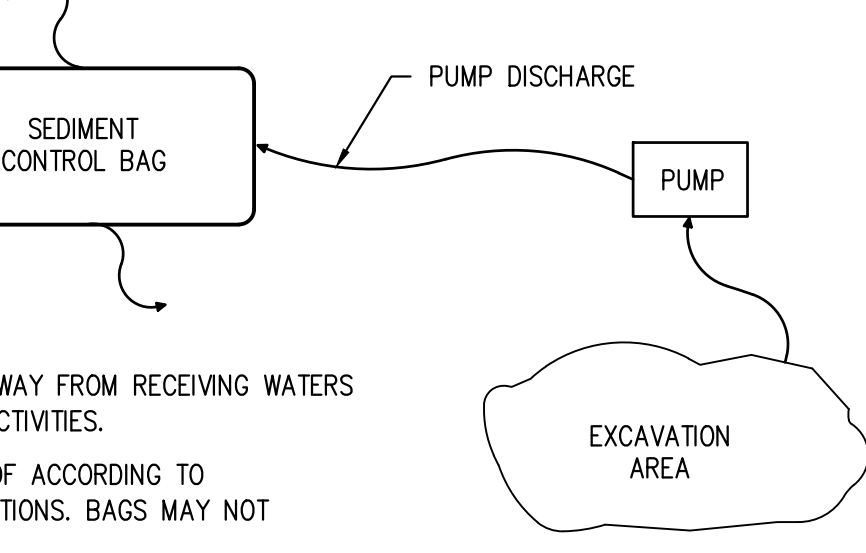
- NOTES**
- TOPSOIL STOCKPILE SHALL BE SURROUNDED BY SILT FENCE.
 - STOCKPILE SHALL RECEIVE TEMPORARY VEGETATIVE STABILIZATION IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY IMMEDIATELY AFTER COMPLETION OF STOCKPILE.
 - STOCKPILES ARE NOT TO BE LOCATED WITHIN FIFTY FEET OF A FLOODPLAIN, SLOPES, ROADWAY, OR DRAINAGE FACILITY.



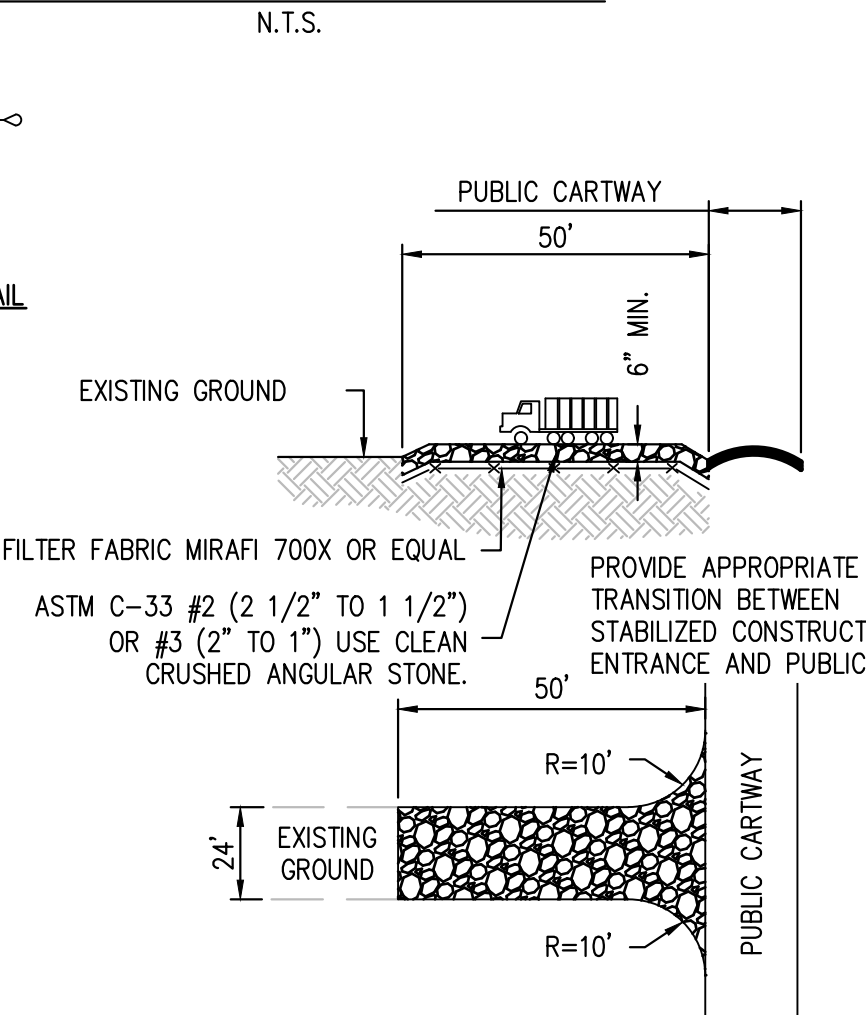
INLET PROTECTION DETAIL WITHIN PAVED AREAS
N.T.S.



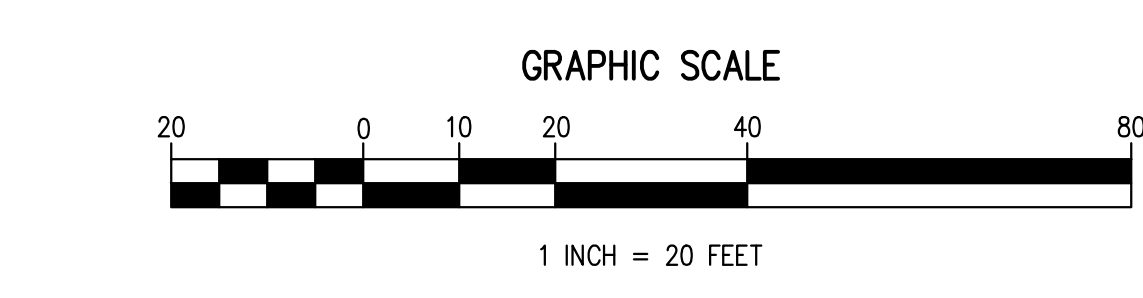
INLET PROTECTION DETAIL OUTSIDE PAVED AREAS
N.T.S.



SEDIMENT CONTROL BAG FOR DEWATERING DETAIL
N.T.S.

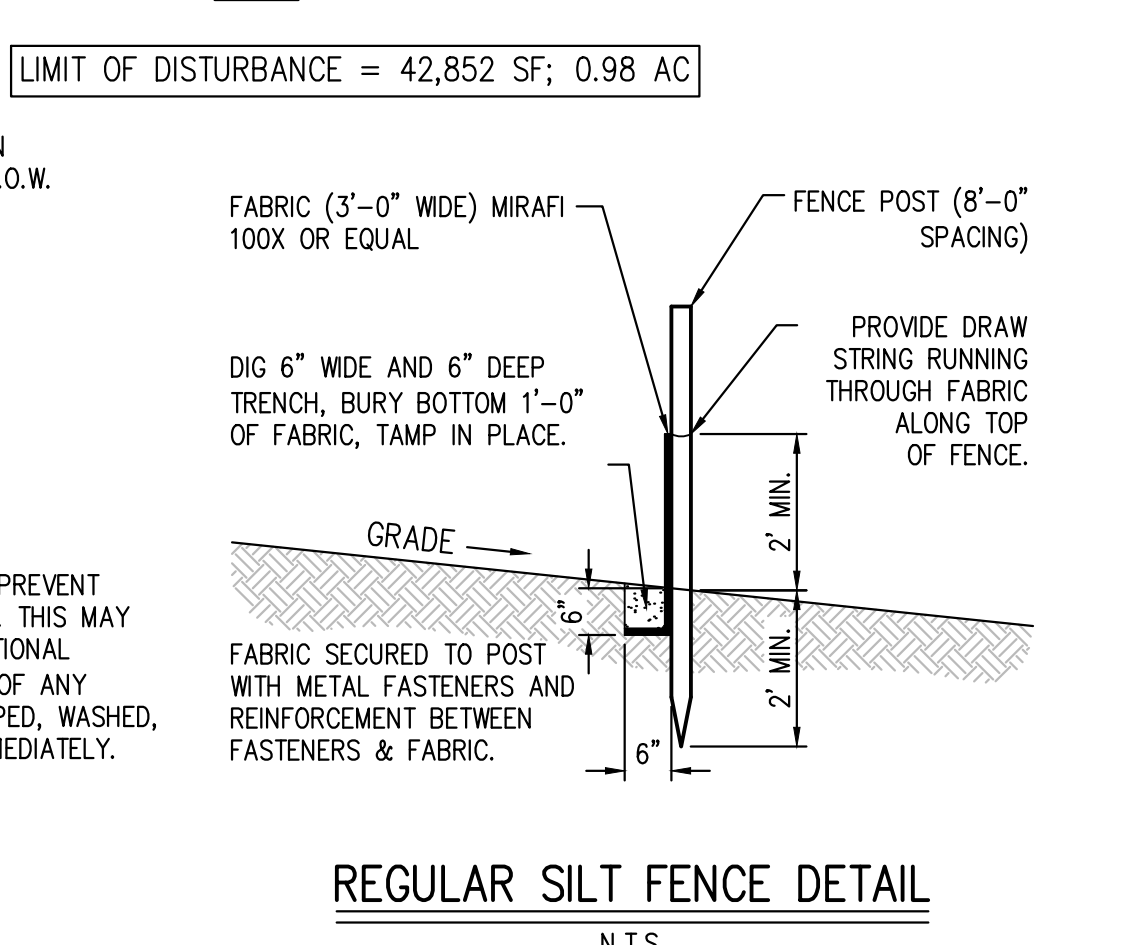


STABILIZED CONSTRUCTION ENTRANCE DETAIL
N.T.S.



REGULAR SILT FENCE DETAIL
N.T.S.

- LEGEND**
- TEMPORARY STABILIZED CONSTRUCTION ENTRANCE
 - SOIL RESTORATION AREA (SOIL TESTING REQUIRED FOR AREAS OF DISTURBANCE TO BE RESTORED TO LANDSCAPE OVER 500 S.F.)
 - PERVIOUS AREA UNDER 500 S.F. (NO SOIL COMPACTION TESTING REQUIRED)
 - LIMIT OF DISTURBANCE
 - SILT FENCE
 - SOIL RESTORATION LIMIT
 - SOIL COMPACTION TEST REQUIRED (DISPERSED IN OPEN AREAS WITH FINAL LOCATIONS TO BE DETERMINED IN FIELD)
 - TEMPORARY INLET PROTECTION
 - SOILS DESIGNATION



Know what's below.
 Call before you dig.

JASON T. SCICULLO, P.E., P.P.
 PROFESSIONAL ENGINEER, NEW JERSEY LICENSE NO. 24604586000
 PROFESSIONAL PLANNER, NEW JERSEY LICENSE NO. 35100026400
 www.sciculloengineering.com
 jscullo@sciculloengineering.com

SCICULLO ENGINEERING SERVICES, LLC
 137 S. NEW YORK AVENUE, SUITE 2
 ATLANTIC CITY, NEW JERSEY 08401
 PHONE: (609) 300-5171
 www.sciculloengineering.com
 NJ CERTIFICATE OF AUTHORIZATION NO. 246A28290700

83 MYRTLE STREET SUPPORTIVE HOUSING
 BLOCK 573, LOTS 9, 10 & 12/02
 CRANFORD TOWNSHIP, UNION COUNTY, NEW JERSEY

SOIL EROSION AND SEDIMENT CONTROL PLAN
 756 HADDON AVENUE
 COLLINGSWOOD, NEW JERSEY 08108

PROJECT NO.	DATE	ISSUE NO.	BY	APPR.
K&A 001.01	5/9/2022	1	JTS	JTS
SCALE	SHEET	TOWNSHIP COMPLETENESS REVIEW	LAT	UTS
1" = 20'	8 OF 9	2	LAT	UTS
		1	DATE	DATE
		1	DATE	DATE

GENERAL NOTES

- 1. THE SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY LAND DISTURBANCE.

SOMERSET UNION SOIL CONSERVATION DISTRICT
308 MILLTOWN ROAD
BRIDGEWATER, NJ 08807
(908) 526-2701
- 2. SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THIS PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.
- 3. A COPY OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN INCLUDING REVISION THEREOF MUST BE MAINTAINED ON THE PROJECT SITE DURING CONSTRUCTION.
- 4. IN NO CASE SHALL THE CERTIFICATION OF THE PROJECT BY THE DISTRICT EXTEND BEYOND THREE AND ONE HALF YEARS OF THE ORIGINAL CERTIFICATION DATE.
- 5. PRIOR TO ANY GRADING OPERATION AND/OR INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES, A NJDES REQUEST FOR AUTHORIZATION (RFA) FORM FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY MUST BE FILED WITH NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION ("NJDEP") IF THE CONSTRUCTION WILL DISTURB MORE THAN ONE ACRE. THE APPLICATION MUST BE COMPLETED BY THE ENTITY RESPONSIBLE FOR MAINTENANCE OF SOIL EROSION CONTROL MEASURES DURING CONSTRUCTION, TYPICALLY THE DEVELOPER OR CONTRACTOR. THE APPLICATION IS A SIMPLE FORM FILED ON THE NJDEP WEBSITE USING PROJECT CODES PROVIDED BY THE SOIL CONSERVATION DISTRICT. IF REQUIRED, THE ENGINEER WILL ASSIST THE DEVELOPER OR CONTRACTOR BY PROVIDING TECHNICAL INFORMATION TO COMPLETE THE APPLICATION.
- 6. ALL APPLICABLE SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN PLACE PRIOR TO ANY GRADING OPERATION AND/OR INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES.
- 7. ANY CHANGES TO THE SITE PLAN WILL REQUIRE THE SUBMISSION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN TO THE DISTRICT. THE REVISED PLAN MUST BE IN ACCORDANCE WITH THE CURRENT NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL.
- 8. 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.
- 9. THE DISTRICT MAY REQUIRE ADDITIONAL SOIL EROSION MEASURES TO BE INSTALLED, AS DETERMINED BY THE DISTRICT
- 10. OFFSITE LAND DISTURBANCE MAY REQUIRE ADDITIONAL SOIL EROSION AND SEDIMENT CONTROL MEASURES TO BE DETERMINED BY THE DISTRICT.
- 11. STAGED CONSTRUCTION METHODS TO MINIMIZE EXPOSED SURFACES, WHERE APPLICABLE.
- 12. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
- 13. SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS AND AFTER EVERY STORM EVENT.
- 14. APPLICABLE SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE LEFT IN PLACE UNTIL CONSTRUCTION IS COMPLETED AND/OR THE AREA IS STABILIZED.
- 15. NJSA 4:24-39, ET SEQ. REQUIRES THAT NO CERTIFICATE OF OCCUPANCY, TEMPORARY OR PERMANENT, BE ISSUED BEFORE ALL PROVISIONS OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN HAVE BEEN COMPLIED WITH 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 A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY. INSPECTION FOR THE CERTIFICATE OF OCCUPANCY MUST BE SCHEDULED AT LEAST A WEEK IN ADVANCE.
- 16. NJSA 4:24-39, ET SEQ., REQUIRES THAT UPON PERMANENT SITE STABILIZATION AND COMPLETION OF THE CONTRACTOR SHALL APPLY TO THE DISTRICT FOR FINAL COMPLIANCE INSPECTION TO CHECK THAT ALL THE PROVISIONS OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES.
- 17. ANY CONVEYANCE OF THIS PROJECT, OR PORTION THEREOF, PRIOR TO ITS COMPLETION WILL TRANSFER FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CERTIFIED PLAN TO ANY SUBSEQUENT OWNERS. THE DISTRICT MUST BE NOTIFIED IN WRITING OF ANY CHANGE IN OWNERSHIP.
- 18. A CRUSHED STONE, TIRE CLEANING PAD WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS EXISTS. THE STABILIZED PAD WILL BE INSTALLED ACCORDING TO THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS. THE PAD MUST BE 100 FEET IN LENGTH AND THE STONE MUST BE 1.5 - 4 INCHES IN SIZE, PLACED 12" THICK AND THE FULL WIDTH OF THE ENTRANCE. THE PAD SHALL BE UNDERLAIN WITH A SUITABLE SYNTHETIC FILTER FABRIC AND MAINTAINED. IF A CONSTRUCTION ACCESS IS TO BE USED AS AN EXIT ONTO A MAJOR HIGHWAY, A THIRTY (30) PAVED TRANSITION AREA SHALL BE INSTALLED. CONSTRUCTION ACCESS ONTO INDIVIDUAL LOTS MUST BE STABILIZED WITH 2.5" CRUSHED STONE OR SUBBASE.
- 19. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
- 20. ALL CATCH BASIN INLETS WILL BE PROTECTED ACCORDING TO THE CERTIFIED PLAN.
- 21. ALL STORM DRAINAGE OUTLETS SHALL BE STABILIZED AS REQUIRED BEFORE THE DISCHARGE POINT BECOMES OPERATION.
- 22. NATURAL VEGETATION AND SPECIES SHALL BE RETAINED WHERE SPECIFIED ON THE LANDSWt PLAN.
- 23. ADJOINING PROPERTIES SHALL BE PROTECTED FROM EXCAVATION AND FILLING OPERATIONS ON THE CONSTRUCTION SITE.
- 24. THE DEVELOPER SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.
- 25. IMMEDIATELY AFTER THE COMPLETION OF STRIPPING AND STOCKPIILING OF TOPSOIL, THE STOCKPILE MUST BE STABILIZED ACCORDING TO THE STANDARD FOR TEMPORARY VEGETATIVE COVER. STABILIZE TOPSOIL PILE WITH STRAW MULCH FOR PROTECTION IF THE SEASON DOES NOT PERMIT THE APPLICATION AND ESTABLISHMENT OF TEMPORARY SEEDING.
- 26. ALL SOIL STOCKPILES ARE NOT TO BE LOCATED WITHIN FIFTY (50) FEET OF A FLOODPLAIN, SLOPE, ROADWAY OR DRAINAGE FACILITY AND THE BASE MUST BE PROTECTED WITH SEDIMENT BARRIER.
- 27. MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT BE CONSTRUCTED STEEPER THAN 3:1 UNLESS OTHERWISE APPROVED BY THE SOIL CONSERVATION DISTRICT.
- 28. ALL CRITICAL AREAS SUBJECT TO SOIL EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH AT A RATE OF 92 POUNDS PER 1000 SQUARE FEET ACCORDING TO THE NEW JERSEY STANDARDS IMMEDIATELY FOLLOWING ROUGH GRADING.
- 29. TEMPORARY AND PERMANENT SEEDING MEASURES MUST BE APPLIED ACCORDING TO THE NEW JERSEY STANDARDS, AND 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)
- 30. MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT BE CONSTRUCTED STEEPER THAN 3:1 UNLESS OTHERWISE APPROVED BY THE SOIL CONSERVATION DISTRICT.
- 31. ANY DISTURBED AREA THAT IS TO BE LEFT EXPOSED FOR MORE THAN THIRTY (30) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING AND FERTILIZATION IN ACCORDANCE WITH THE NEW JERSEY STANDARDS AND THEIR RATES SHOULD BE IN ACCORDANCE WITH THE TEMPORARY SEEDING SPECIFICATION. IF THE SEASON PREVENTS TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH SALT HAY OR THE EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE NEW JERSEY STANDARDS (I.E. PEG AND TWINE, MULCH NETTING OR LIQUID MULCH BINDER).
- 32. MULCHING IS REQUIRED ON ALL SEEDED AREAS TO ENSURE AGAINST SOIL EROSION BEFORE GRASS IS ESTABLISHED TO PROMOTE EARLIER VEGETATION COVER.
- 33. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO PROVIDE CONFIRMATION OF LIME, FERTILIZER AND SEED APPLICATION AND RATES OF APPLICATION AT THE REQUEST OF THE SOIL CONSERVATION DISTRICT.
- 34. 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 STANDARDS.

- 35. ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER AREA. THE SEDIMENT FILTER SHOULD BE COMPOSED OF A SUITABLE FILTER FABRIC. (SEE DETAIL.) THE SEDIMENT FILTER MUST BE CAPABLE OF FILTERING THE SEDIMENT AND BE PLACED SO AS NOT TO CAUSE EROSION OF THE DOWNSTREAM AREA. FIELD PLACEMENT AND USE OF THE STRUCTURE MUST BE APPROVED BY THE DISTRICT PRIOR TO COMMENCEMENT OF DEWATERING ACTIVITIES. THE WATER QUALITY BASIN MUST BE DEWATERED TO NORMAL POOL WITHIN 10 DAYS OF THE DESIGN STORM.
- 36. DUST IS TO BE CONTROLLED BY AN APPROVED METHOD ACCORDING TO THE NEW JERSEY STANDARDS AND INCLUDE WATERING WITH A SOLUTION OF CALCIUM CHLORIDE AND WATER.
- 37. METHODS FOR THE MANAGEMENT OF HIGH ACID PRODUCING SOILS SHALL BE IN ACCORDANCE WITH THE NEW JERSEY STANDARDS. HIGH ACID PRODUCING SOILS ARE THOSE FOUND TO CONTAIN IRON SULFIDES OR HAVE A PH OF 4 OR LESS.

WORK HOURS AND NOISE CONTROL

- 1. CONSTRUCTION HOURS
 - A. MONDAY THRU FRIDAY: 7:00AM-6:00PM
 - B. SATURDAY: 8:00AM-4:30PM
 - C. SUNDAY: NO WORK TO BE PERFORMED.
 - D. THE HOURS STATED SHALL BE ADHERED TO UNLESS DUE TO WEATHER AND OR SCHEDULE CHANGES. THE MUNICIPALITY SHALL BE NOTIFIED OF ALL TIME CHANGES.
- 2. NOISE CONTROL EQUIPMENT TO BE UTILIZED SHALL BE STANDARD EARTH MOVING EQUIPMENT, CRANES, MIXERS, ETC. WHICH MEET STANDARDS ESTABLISHED BY STATE AND FEDERAL LAWS REGARDING THE AMOUNT OF NOISE PRODUCED.

DETAILED CONSTRUCTION SEQUENCE

- 1. INSTALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES.
 - A. PLACE STABILIZED CONSTRUCTION ENTRANCE WHERE INDICATED ON PLAN.
 - B. PLACE SILT FENCE AND INLET PROTECTION FOR EXISTING INLETS WHERE INDICATED ON PLAN.
- 2. ROUGH GRADE PAVEMENT AREA BED AND BUILDING PADS
- 3. CONSTRUCT CURBING AND SUBBASE FOR PAVEMENT AREAS.
- 4. CONSTRUCT BASE PAVEMENT COURSE.
- 5. ESTABLISH FINAL GRADING AND PERMANENT VEGETATIVE COVER.
 - SOIL COMPACTION TESTING IS NOT REQUIRED IF/WHEN SUBSOIL COMPACTION REMEDIATION (SCARIFICATION/TILLAGE (6" MINIMUM DEPTH) OR SIMILAR) IS PROPOSED AS PART OF THE SEQUENCE OF CONSTRUCTION.
- 6. LANDSCAPE AS NECESSARY.
- 7. CONSTRUCT FINAL PAVEMENT COURSE.
- 8. REMOVE SOIL CONSERVATION MEASURES WHEN CONSTRUCTION IS COMPLETED AND/OR SITE IS STABILIZED.
- 9. REQUEST REPORT OF COMPLIANCE FROM THE SOIL CONSERVATION DISTRICT.

TEMPORARY AND PERMANENT STABILIZATION

- STABILIZATION COVER SHALL BE ACCOMPLISHED BY THE FOLLOWING METHODS AND MATERIALS:
- B. SITE PREPARATION
 - 1) PREPARE SUBGRADE AS NEEDED AND FEASIBLE TO ALLOW USE OF CONVENTIONAL EQUIPMENT FOR TOPSOILING, SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING.
 - 2) INSTALL NEEDED SOIL EROSION CONTROL PRACTICES OR MEASURES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.
 - 3) THE SUBGRADE SHALL BE FREE OF EXCESSIVE COMPACTION TO A DEPTH OF 6 INCHES TO ENHANCE THE ESTABLISHMENT OF VEGETATIVE COVER. IF TESTING INDICATES EXCESSIVE SUBGRADE COMPACTION, THE SUBGRADE SHALL BE DE-COMPACTED TO A DEPTH OF 6 INCHES PRIOR TO THE APPLICATION OF TOPSOIL. THE SUBGRADE SHALL BE SCARIFIED TO A DEPTH OF 6" TO 12" WHERE THERE HAS BEEN EXCESSIVE SOIL COMPACTION. THIS PRACTICE IS PERMISSIBLE ONLY IN AREAS WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.).
 - 4) THE SUBGRADE SHALL BE TESTED TO DETERMINE WHETHER COMPACTION EXCEEDS THE MAXIMUM THRESHOLDS INDICATED FOR THE SIMPLIFIED TESTING METHODS. THE TEST SHALL BE PERFORMED AT ONE-HALF ACRE INTERVALS FOR SITES ONE ACRE OR MORE. FOR SITES LESS THAN ONE ACRE, AT LEAST TWO TESTS ARE REQUIRED REGARDLESS OF THE SIZE. CONTIGUOUS AREAS OF 500 SQUARE FEET OR LESS ARE EXEMPT FROM TESTING OR REMEDIATION. COMPACTION TESTING METHODS SHALL INCLUDE: (1) PROBING WIRE TEST, (2) HAND-HELD PENETROMETER TEST, (3) TUBE BULK DENSITY TEST, OR (4) NUCLEAR DENSITY TEST. THE MAXIMUM THRESHOLD FOR THE PROBING WIRE TEST IS DETERMINED IF A 15 GAGE WIRE BENDS WHEN INSERTED INTO THE SUBGRADE TO A DEPTH OF 6 INCHES OR FOR THE PENETROMETER TEST IF THE PRESSURE AT A DEPTH OF 6 INCHES IS 300 PSI OR MORE. IF COMPACTION EXCEEDS THE MAXIMUM THRESHOLD, THE CONTRACTOR SHALL HAVE THE OPTION TO PERFORM EITHER (1) COMPACTION MITIGATION OVER THE ENTIRE MITIGATION AREA, OR (2) PERFORM ADDITIONAL MORE DETAILED TESTING TO ESTABLISH THE LIMITS OF EXCESSIVE COMPACTION WHEREUPON ONLY THE EXCESSIVELY COMPACTED AREAS WOULD REQUIRE COMPACTION MITIGATION. ADDITIONAL DETAILED TESTING SHALL BE PERFORMED BY A TRAINED, LICENSED PROFESSIONAL.
 - B. STRIPPING AND STOCKPIILING
 - 1) FIELD EXPLORATION SHOULD BE MADE TO DETERMINE WHETHER QUANTITY AND/OR QUALITY OF SURFACE SOIL JUSTIFIES STRIPPING.
 - 2) STRIPPING SHOULD BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA.
 - 3) WHERE FEASIBLE, LIME MAY BE APPLIED BEFORE STRIPPING AT A RATE DETERMINED BY SOIL TEST TO BRING THE SOIL PH TO APPROXIMATELY 6.5. IN LIEU OF SOIL TEST, SEE LINE RATE GUIDE IN SEEDBED PREPARATION.
 - 4) A 4 TO 6 INCH STRIPPING DEPTH IS COMMON, BUT MAY VARY DEPENDING ON THE PARTICULAR SOIL.
 - 5) STOCKPILES OF TOPSOIL SHOULD BE SITUATED SO AS NOT TO OBSTRUCT NATURAL DRAINAGE OR CAUSE OFF-SITE ENVIRONMENTAL DAMAGE.
 - 6) STOCKPILES OF TOPSOIL SHOULD BE VEGETATED IN ACCORDANCE WITH STANDARDS FOR PERMANENT OR TEMPORARY STABILIZATION. WEEDS SHOULD NOT BE ALLOWED TO GROW ON STOCKPILES.
 - C. TOPSOILING - THE CONTRACTOR SHALL PREPARE AREAS TO BE STABILIZED WITH PERMANENT VEGETATIVE COVER BY APPLYING TOPSOIL TO A UNIFORM DEPTH OF 6 INCHES. TOPSOIL SHOULD BE FRABLE, LOAMY, FREE OF DEBRIS, OBJECTIONABLE WEEDS AND STONES, AND CONTAIN NO TOXIC SUBSTANCE OR ADVERSE CHEMICAL OR PHYSICAL CONDITION THAT MAY BE HARMFUL TO PLANT

GROWTH. SOLUBLE SALTS SHOULD NOT BE EXCESSIVE (CONDUCTIVITY LESS THAN 0.5 MILLMHOS PER CENTIMETER. MORE THAN 0.5 MILLMHOS MAY DESICATE SEEDLINGS AND ADVERSELY IMPACT GROWTH). TOPSOIL HAILED IN FROM OFFSITE SHOULD HAVE A MINIMUM ORGANIC MATTER CONTENT OF 2.75 PERCENT. ORGANIC MATTER CONTENT MAY BE RAISED BY ADDITIVES.

TOPSOIL SUBSTITUTES MAY BE UTILIZED ON SITES WITH INSUFFICIENT TOPSOIL FOR ESTABLISHING PERMANENT VEGETATION. TOPSOIL SUBSTITUTE IS A SOIL MATERIAL WHICH MAY HAVE BEEN AMENDED WITH SAND, SILT, CLAY, ORGANIC MATTER, FERTILIZER OR LIME AND HAS THE APPEARANCE OF TOPSOIL. ALL TOPSOIL SUBSTITUTE MATERIALS SHALL MEET THE REQUIREMENTS OF TOPSOIL NOTED ABOVE. SOIL TESTS SHALL BE PERFORMED TO DETERMINE THE COMPONENTS OF SAND, SILT, CLAY, ORGANIC MATTER, SOLUBLE SALTS AND PH LEVEL.

- D. SEEDBED PREPARATION - APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TESTS SUCH AS THOSE OFFERED BY RUTGERS UNIVERSITY SOIL TESTING LABORATORY. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL COOPERATIVE EXTENSION SERVICE OFFICE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, THE CONTRACTOR MAY APPLY PULVERIZED DOLOMITIC LIMESTONE AT THE RATE OF 90 POUNDS PER 1000 SQUARE FEET. APPLY 10-20-10 FERTILIZER OR EQUIVALENT AT THE RATE OF 11 POUNDS PER 1000 SQUARE FEET. IN ADDITION, 300 POUNDS 38-0-0 PER ACRE OR EQUIVALENT OF SLOW RELEASE NITROGEN MAY BE USED IN LIEU OF TOPDRESSING. APPLY LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDES) AS FOLLOWS:

SOIL TEXTURE	TONS / ACRE
CLAY, CLAY LOAM & HIGH ORGANIC SOIL	4
SANDY LOAM, LOAM & SILT LOAM	3
LOAMY SAND, SAND	2

THE LIME AND FERTILIZER SHALL THEN BE "WORKED" INTO THE SOIL TO A DEPTH OF 4" WITH A DISC, SPRINGTOOTH HARROW OR OTHER SUITABLE EQUIPMENT.

- E. TEMPORARY VEGETATION SEEDING - ESTABLISH TEMPORARY VEGETATIVE COVER ON SOILS EXPOSED FOR PERIODS OF TWO TO SIX MONTHS WHICH ARE NOT BEING GRADED, NOT UNDER ACTIVE CONSTRUCTION OR NOT SCHEDULED FOR PERMANENT SEEDING WITHIN 60 DAYS. SEEDING SHALL CONSIST OF PERENNIAL RYEGRASS APPLIED AT THE RATE OF 1 POUND PER 1000 SQUARE FEET DURING COOL SEASON OR WEEPING LOVEGRASS AT 5 LBS. PER ACRE DURING WARM SEASON PLANTING.
- F. PERMANENT VEGETATION SEEDING - IMMEDIATELY FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES AT THE SITE, THE CONTRACTOR SHALL STABILIZE WITH PERMANENT VEGETATIVE COVER, ALL EXPOSED AND DISTURBED SOILS.

#15 MIXTURE (LAWN)	LBS/ACRE	LBS/1000 S.F.
HARD FESCUE	130	3.00
CHEWING FESCUE	45	1.00
STRONG CREEPING RED FESCUE	45	1.00
PERENNIAL RYEGRASS	10	0.25
#11 MIXTURE (SWALE)	LBS/ACRE	LBS/1000 S.F.
KENTUCKY BLUEGRASS	45	1.00
TURF-TYPE TALL FESCUE	22	0.50

IF HYDROSEEDING IS USED ALL SEEDING RATES SHALL BE INCREASED BY 25% IF SODDING IS USED SEE SOD SPECIFICATIONS.

- G. SEEDING DATES - SEEDING DATES FOR VEGETATION SHALL OCCUR BETWEEN MARCH 1 AND APRIL 30 (OPTIMAL PLANTING PERIOD) OR BETWEEN AUGUST 15 AND NOVEMBER 15. IF SEED IS NOT PLANTED WITHIN THESE DATES, THE CONTRACTOR SHALL STABILIZE WITH MULCH AS SPECIFIED ABOVE.
- E. MULCHING - THE CONTRACTOR SHALL MULCH ALL NEWLY SEEDED AREAS WITH UNROTTED SMALL GRAIN STRAW OR HAY FREE OF SEEDS AT THE RATE OF 70 TO 90 POUNDS PER 1,000 SQUARE FEET. IT SHALL BE ANCHORED THROUGH THE USE OF THE PEG AND TWINE METHOD. THE PEG AND TWINE METHOD OF MULCH ANCHORING SHALL CONSIST OF DRIVING 9-10 INCH WOODEN PEGS TO WITHIN 2-3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRISS-CROSS AND A SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.

- F. SODDING
 - 1) CULTIVATED SOD IS PREFERRED OVER NATIVE SOD. SPECIFY "CERTIFIED SOD", OR OTHER HIGH QUALITY CULTIVATED SOD. SOD SHOULD BE FREE OF WEEDS AND UNDESIRABLE COARSE WEEDY GRASSES. SOD SHOULD BE OF UNIFORM THICKNESS, APPROXIMATELY 5/8 INCH, PLUS OR MINUS 1/4 INCH, AT TIME OF CUTTING. (EXCLUDES TOP GROWTH). SOD SHOULD BE VIGOROUS AND DENSE AND BE ABLE TO RETAIN ITS OWN SHAPE AND WEIGHT WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP FROM THE UPPER 10 PERCENT OF THE STRIP. BROKEN PADS OR TORN OR UNEVEN ENDS WILL NOT BE ACCEPTED. FOR DROUGHTY SITES, A SOD OF KENTUCKY 31 TALL FESCUE AND BLUEGRASS IS PREFERRED OVER A STRAIGHT BLUEGRASS SOD. ONLY MOST, FRESH, UNHEATED SOD SHOULD BE USED. SOD SHOULD BE HARVESTED, DELIVERED AND INSTALLED WITHIN A PERIOD OF 36 HOURS.
 - 2) REMOVE FROM THE SURFACE ALL OBJECTS THAT WOULD PREVENT GOOD SOD TO SOIL CONTACT AND REMOVE ALL OTHER DEBRIS SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS OR OTHER UNSUITABLE MATERIAL.
 - 3) INSPECT SITE JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AND FIRMED AS ABOVE.
 - 4) SOD PLACEMENT:
 - A) SOD STRIPS SHOULD BE LAID ON THE CONTOUR, NEVER UP AND DOWN THE SLOPE, STARTING AT THE BOTTOM OF THE SLOPE AND WORKING UP. ON STEEP SLOPES, THE USE OF LADDERS WILL FACILITATE THE WORK AND PREVENT DAMAGE TO THE SOD. DURING PERIODS OF HIGH TEMPERATURE, LIGHTLY IRRIGATE THE SOIL IMMEDIATELY PRIOR TO LAYING THE SOD.
 - B) PLACE SOD STRIPS WITH SNUG, EVEN JOINTS THAT ARE STAGGERED. OPEN SPACES INVITE EROSION.
 - C) ROLL OR TAMP SOD IMMEDIATELY FOLLOWING PLACEMENT TO INSURE SOIL CONTACT OF ROOT MAT AND SOIL SURFACE. DO NOT OVERLAP SOD. ALL JOINTS SHOULD BE BUTTED TIGHTLY IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE DRYING OF THE ROOTS.
 - D) ON SLOPES GREATER THAN 3:1, SECURE SOD TO SURFACE SOIL WITH WOOD PEGS, WIRE STAPLES, OR SPLIT SHINGLES (8" TO 10" LONG BY 3/4" WIDE).

- A) SOD STRIPS SHOULD BE LAID ON THE CONTOUR, NEVER UP AND DOWN THE SLOPE, STARTING AT THE BOTTOM OF THE SLOPE AND WORKING UP. ON STEEP SLOPES, THE USE OF LADDERS WILL FACILITATE THE WORK AND PREVENT DAMAGE TO THE SOD. DURING PERIODS OF HIGH TEMPERATURE, LIGHTLY IRRIGATE THE SOIL IMMEDIATELY PRIOR TO LAYING THE SOD.
- B) PLACE SOD STRIPS WITH SNUG, EVEN JOINTS THAT ARE STAGGERED. OPEN SPACES INVITE EROSION.
- C) ROLL OR TAMP SOD IMMEDIATELY FOLLOWING PLACEMENT TO INSURE SOIL CONTACT OF ROOT MAT AND SOIL SURFACE. DO NOT OVERLAP SOD. ALL JOINTS SHOULD BE BUTTED TIGHTLY IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE DRYING OF THE ROOTS.
- D) ON SLOPES GREATER THAN 3:1, SECURE SOD TO SURFACE SOIL WITH WOOD PEGS, WIRE STAPLES, OR SPLIT SHINGLES (8" TO 10" LONG BY 3/4" WIDE).
- E) SURFACE WATER CANNOT ALWAYS BE DIVERTED FROM FLOWING OVER THE FACE OF THE SLOPE, BUT A CARPING STRIP OF HEAVY JUTE OR PLASTIC NETTING, PROPERLY SECURED, ALONG THE GROWTH OF THE SLOPE AND EDGES WILL PROVIDE EXTRA PROTECTION AGAINST LIFTING AND UNDERCUTTING OF SOD. THE SAME TECHNIQUE CAN BE USED TO ANCHOR SOD IN WATER- CARRYING CHANNELS AND OTHER CRITICAL AREAS. WIRE STAPLES MUST BE USED TO ANCHOR NETTING IN CHANNEL WORK.
- E) IMMEDIATELY FOLLOWING INSTALLATION, SOD SHOULD BE WATERED UNTIL MOISTURE PENETRATES THE SOIL LAYER BENEATH SOD TO A DEPTH OF 4 INCHES. MAINTAIN OPTIMUM MOISTURE FOR AT LEAST TWO WEEKS.
- F) TOPDRESSING - IF SLOW RELEASE NITROGEN (300 POUNDS 38-0-0 PER ACRE OR EQUIVALENT) IS USED IN ADDITION TO SUGGESTED FERTILIZER, THEN A FOLLOW-UP OF TOPDRESSING IS NOT MANDATORY.
- FALL INSTALLATION OF SOD WILL REQUIRE AN APPLICATION OF FERTILIZER SUCH AS 10-20-10 OR EQUIVALENT AT 400 POUNDS PER ACRE OR 10 POUNDS PER 1000 SQUARE FEET BETWEEN SEPTEMBER 1 AND OCTOBER 15.

MANAGEMENT OF HIGH ACID-PRODUCING SOILS

HIGH ACID-PRODUCING SOILS ARE SOILS WITH A PH OF 4.0 OR LESS OR CONTAIN IRON SULFIDE. HIGH ACID-PRODUCING SOILS MAY BE PRESENT IN UNDISTURBED SOILS AT VARYING DEPTHS, INCLUDING NEAR THE SOIL SURFACE TO EXCAVATIONS OR DEEP DISTURBANCES. ITS PRESENCE ON A SITE MAY BE SIGNIFICANT OR LIMITED IN THE SOIL PROFILE. HIGH ACID-PRODUCING SOILS ARE COMMONLY BLACK, DARK BROWN, GRAY OR GREENISH WITH SILVERY PYRITE OR MARCASITE NUGGETS OR FLAKES. ALTERNATIVELY, SANDY SOILS OR REDDISH, YELLOWISH OR LIGHT TO MEDIUM BROWN SOIL MATERIALS ARE USUALLY FREE OF HIGH ACID-PRODUCING DEPOSITS.

TO PREVENT OR LIMIT EXPOSURE AREA, TIME, AND SPREADING BY EQUIPMENT OR RAINFALL ON- AND OFF-SITE AND TO MINIMIZE EROSION, SEDIMENTATION AND ACID LEACHATE-RELATED DAMAGES, HIGH ACID-PRODUCING SOIL MAY BE EXPOSED DURING EXCAVATION AND LAND GRADING ACTIVITIES, OR MAY BE INTRODUCED IN DREGGED SEDIMENT, SOILS AND SEDIMENT CONTAINING IRON SULFIDE, CHARACTERIZED BY PYRITE OR MARCASITE NUGGETS OR GREENSANDS, ARE CHEMICALLY OXIDIZED WHEN EXPOSED TO AIR, PRODUCING SULFURIC ACID AND RESULT IN SOIL PH LEVELS FALLING TO PH 4.0 AND LOWER. MOST VEGETATION IS INCAPABLE OF GROWTH AT THIS PH LEVEL. ADJACENT LAND AND RECEIVING WATERS WILL BE NEGATIVELY IMPACTED BY THE ACID LEACHATE. CALCIUM-CONTAINING MATERIALS SUCH AS SIDEWALKS, CURBWEETS AND OTHER STRUCTURES AND SOME METALLIC MATERIALS ARE ALSO SUSCEPTIBLE TO DEGRADATION. AGRICULTURAL LIMESTONE MATERIALS APPLIED AT RATES OF 8 TONS PER ACRE HAVE RESULTED IN ONLY A TEMPORARY BUFFERING EFFECT, AND "LIMING-ONLY" IS THEREFORE NOT CONSIDERED AN ACCEPTABLE MITIGATION PRACTICE.

METHODS AND MATERIALS OF MANAGING HIGH ACID-PRODUCING SOILS

- 1. LIMIT THE EXCAVATION AREA AND EXPOSURE TIME WHEN HIGH ACID-PRODUCING SOILS ARE ENCOUNTERED.
- 2. TOPSOIL STRIPPED FROM THE SITE SHALL BE STORED SEPARATELY FROM TEMPORARILY STOCKPILED HIGH ACID-PRODUCING SOILS.
- 3. STOCKPILES OF HIGH ACID-PRODUCING SOIL SHOULD BE LOCATED ON LEVEL LAND TO MINIMIZE ITS MOVEMENT, ESPECIALLY WHEN THIS MATERIAL HAS A HIGH CLAY CONTENT.
- 4. TEMPORARILY STOCKPILED HIGH ACID-PRODUCING SOIL MATERIAL TO BE STORED MORE THAN 48 HOURS SHOULD BE COVERED WITH PROPERLY ANCHORED, HEAVY GRADE SHEETS OF POLYETHYLENE WHERE POSSIBLE. IF NOT POSSIBLE, STOCKPILES SHALL BE COVERED WITH A MINIMUM OF 3 TO 6 INCHES OF WOOD CHIPS TO MINIMIZE EROSION OF THE STOCKPILE. SILT FENCE SHALL BE INSTALLED AT THE TOE OF THE SLOPE TO CONTAIN MOVEMENT OF THE STOCKPILED MATERIAL. TOPSOIL SHALL NOT BE APPLIED TO THE STOCKPILES TO PREVENT TOPSOIL CONTAMINATION WITH HIGH ACID-PRODUCING SOIL.
- 5. HIGH ACID-PRODUCING SOILS WITH A PH OF 4.0 OR LESS OR CONTAINING IRON SULFIDE (INCLUDING BORROW FROM CUTS OR DREGGED SEDIMENT) SHALL BE ULTIMATELY PLACED OR BURIED WITH LIMESTONE APPLIED AT THE RATE OF 10 TONS PER ACRE (OR 450 POUNDS PER 1,000 SQUARE FEET OF SURFACE AREA) AND COVERED WITH A MINIMUM OF 12 INCHES OF SETTLED SOIL WITH A PH OF 5.0 OR MORE EXCEPT AS FOLLOWS:
 - A. AREAS WHERE TREES OR SHRUBS ARE TO BE PLANTED SHALL BE COVERED WITH A MINIMUM OF 24 INCHES OF SOIL WITH A PH OR 5 OR MORE.
 - B. DISPOSAL AREAS SHALL NOT BE LOCATED WITHIN 24 INCHES OF ANY SURFACE OF A SLOPE OR BANK, SUCH AS BERMS, STREAM BANKS, DITCHES, AND OTHERS, TO PREVENT POTENTIAL LATERAL LEACHING DAMAGES.
- 6. EQUIPMENT USED FOR MOVEMENT OF HIGH ACID-PRODUCING SOILS SHOULD BE CLEANED AT THE END OF EACH DAY TO PREVENT SPREADING OF HIGH ACID-PRODUCING SOIL MATERIALS TO OTHER PARTS OF THE SITE, INTO STREAMS OR STORMWATER CONVEYANCES, AND TO PROTECT MACHINERY FROM ACCELERATED RUSTING.
- 7. NON-VEGETATIVE EROSION CONTROL PRACTICES (STONE TRACKING PADS, STRATEGICALLY PLACED LIMESTONE CHECK DAM, SEDIMENT BARRIER, WOOD CHIPS) SHOULD BE INSTALLED TO LIMIT THE MOVEMENT OF HIGH ACID-PRODUCING SOILS FROM, AROUND, OR OFF THE SITE.
- 8. FOLLOWING BURIAL OR REMOVAL OF HIGH ACID-PRODUCING SOIL, TOPSOILING AND SEEDING OF THE SITE (SEE TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION, PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION, AND TOPSOILING), MONITORING MUST CONTINUE FOR A MINIMUM OF 6 MONTHS TO ENSURE THERE IS ADEQUATE STABILIZATION AND THAT NO HIGH ACID-PRODUCING SOIL PROBLEMS EMERGE. IF PROBLEMS STILL EXIST, THE AFFECTED AREA MUST BE TREATED AS INDICATED ABOVE TO CORRECT THE PROBLEM.

DUST CONTROL:

DUST CONTROL SHALL BE ACCOMPLISHED BY THE METHODS DESCRIBED BELOW.

MATERIAL	WATER DILUTION	TYPE OF NOZZLE	APPLY GALLONS/AC
ANIONIC ASPHALT EMULSION	7:1	COARSE SPRAY	1200
LATEX EMULSION	12.5:1	FINE SPRAY	235
RESIN IN WATER	4:1	FINE SPRAY	300
POLYACRYLAMIDE (PAM) - SPRAY ON POLYACRYLAMIDE (PAM) - DRY SPREAD			APPLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS. MAY ALSO BE USED AS AN ADDITIVE TO SEDIMENT BASINS TO FLOCCULATE AND PRECIPITATE SUSPENDED COLLOIDS. SEE SEDIMENT BASIN STANDARD, P. 26-1
ACULATED SOY BEAN SOAP STICK	NONE	COARSE SPRAY	1200

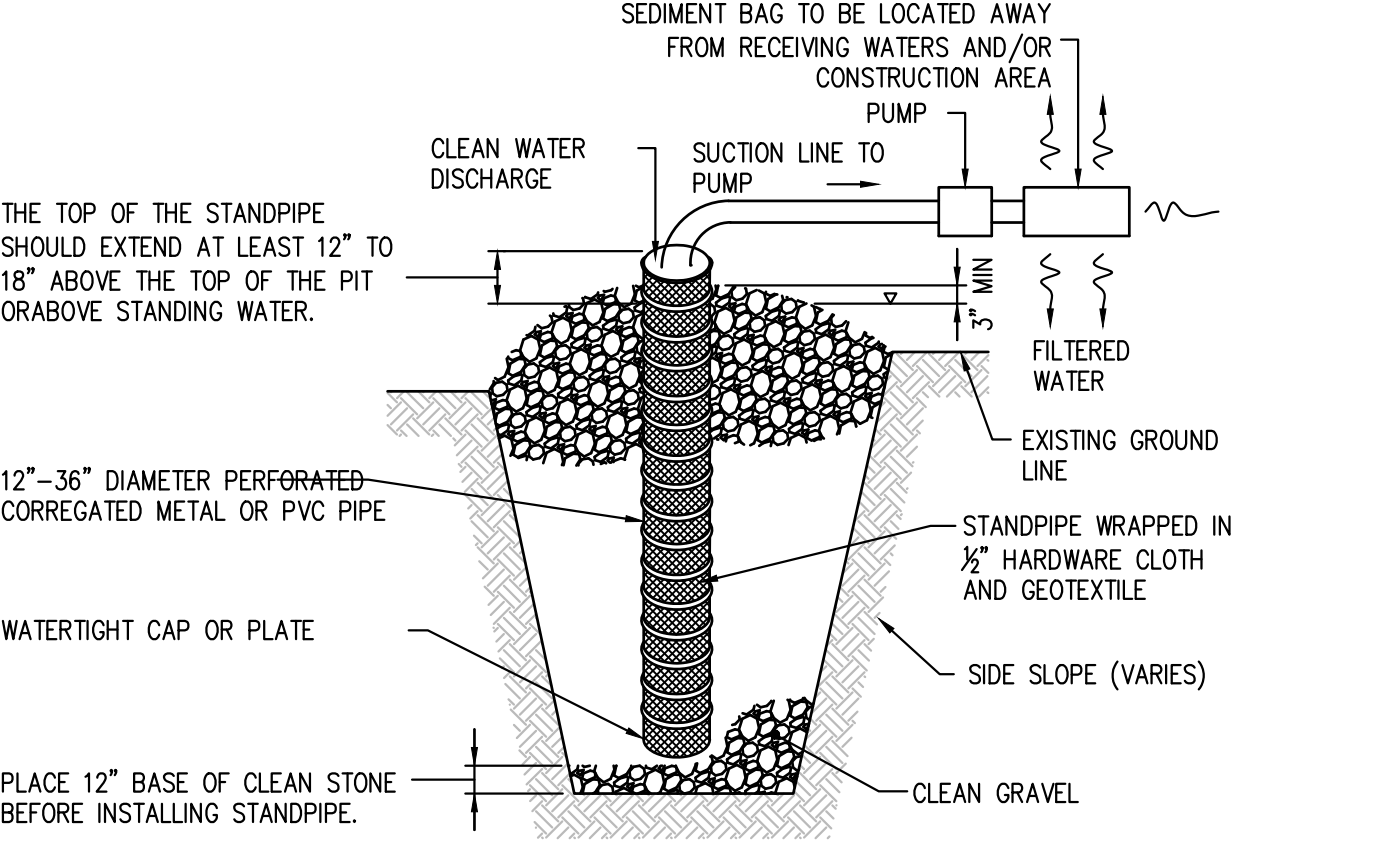
TILLAGE: TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS A TEMPORARY EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS PLACED ABOUT 12 INCHES APART, AND SPRING TOOTHED HARROWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.

SPRINKLING: SITE IS SPRINKLED UNTIL THE SURFACE IS WET.

BARRIERS: SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING.

CALCIUM CHLORIDE: SHALL BE IN THE FORM OF LOOSE, DRY GRANULES OR FLAKES FINE ENOUGH TO FEED THROUGH COMMONLY USED SPREADERS AT A RATE THAT WILL KEEP SURFACE MOIST BUT NOT CAUSE POLLUTION OR PLANT DAMAGE. IF USED ON STEEPER SLOPES, THEN USE OTHER PRACTICES TO PREVENT WASHING INTO STREAMS, OR ACCUMULATION AROUND PLANTS.

STONE: COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.



CONSTRUCTION SPECIFICATIONS

- 1. PIT DIMENSIONS ARE VARIABLE, WITH THE MINIMUM DIAMETER BEING TWO TIMES THE STANDPIPE DIAMETER.
- 2. THE STANDPIPE SHOULD BE CONSTRUCTED BY PERFORATING A 12" TO 24" DIAMETER CORRUGATED OR PVC PIPE, THEN WRAPPING WITH 1/2" HARDWARE CLOTH AND GEOTEXTILE FABRIC. THE PERFORATIONS SHALL BE 1/2" x 6" SLOTS OR 1" DIAMETER HOLES.
- 3. A BASE FILTER MATERIAL CONSISTING OF CLEAN GRAVEL OR ASTM C 33 STONE SHOULD BE PLACED IN THE PIT TO A DEPTH OF 12". AFTER INSTALLING THE STANDPIPE, THE PIT SURROUNDING THE STANDPIPE SHOULD THEN BE BACKFILLED WITH THE SAME FILTER MATERIAL.
- 4. THE STANDPIPE SHOULD EXTEND 12" TO 18" ABOVE THE LIP OF THE PIT OR THE RISER CREST ELEVATION (BASIN DEWATERING ONLY) AND THE FILTER MATERIAL SHOULD EXTEND 3" MINIMUM ABOVE THE ANTICIPATED STANDING WATER ELEVATION.
- 5. WATER SURFACE ELEVATION.
- 6. SEDIMENT CONTROL BAGS MUST BE DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS. BAGS MAY NOT BE REUSED.

TEMPORARY SUMP PIT DURING CONSTRUCTION

N.T.S.

EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS IS BASED ON RECORD DRAWINGS AND FIELD SURVEYS AND IS NOT GUARANTEED. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHOULD BE REPORTED TO THE ENGINEER IMMEDIATELY.

811 CALL BEFORE YOU DIG

ALL DOCUMENTS PREPARED BY SCIULLO ENGINEERING SERVICES, LLC ARE INSTRUMENTS OF SERVICE. THE CLIENT AGREES TO HOLD SCIULLO ENGINEERING SERVICES, LLC HARMLESS FROM AND AGAINST ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES, ARISING OUT OF OR RESULTING FROM THE USE OF ANY INSTRUMENTS OF SERVICE. ANY REUSE WITHOUT WRITTEN PERMISSION OF ADAPTATION BY SCIULLO ENGINEERING SERVICES, LLC IS PROHIBITED. SCIULLO ENGINEERING SERVICES, LLC SHALL BE LIABLE FOR THE PROFESSIONAL SERVICES PROVIDED BY IT AND ITS EMPLOYEES, AGENTS AND CONTRACTORS TO CALL 1-800-272-1000 FOR THE LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

JASON T. SCIULLO, P.E., P.P.

PROFESSIONAL ENGINEER, NEW JERSEY LICENSE NO. 24604958000
 PROFESSIONAL PLANNER, NEW JERSEY LICENSE NO. 35100269400

www.sciulloengineering.com
 jscullo@sciulloengineering.com

SCIULLO ENGINEERING SERVICES, LLC

137 S. NEW YORK AVENUE, SUITE 201
 ATLANTIC CITY, NEW JERSEY 08401
 PHONE: (609) 300-5171
 www.sciulloengineering.com

NJ CERTIFICATE OF AUTHORIZATION NO. 24628290700

83 MYRTLE STREET SUPPORTIVE HOUSING

BLOCK 973, LOTS 9, 10 & 12/02
 CRANFORD TOWNSHIP, UNION COUNTY, NEW JERSEY

SOIL EROSION AND SEDIMENT CONTROL NOTES

756 HADDON AVENUE
 COLLINGSWOOD, NEW JERSEY 08108

PROJECT NO.	DRAWING	DATE	BY	APPR.
K&A 001.01	2	5/9/2022	JTS	JTS
SCALE	TOWNSHIP COMPLETENESS REVIEW	DATE	BY	APPR.
AS SHOWN	2	5/9/2022	JTS	JTS
SHEET 9 OF 9	1 INITIAL SUBMISSION	DATE	BY	APPR.
	2 SUBMISSION/REVISION	DATE	BY	APPR.

C1301