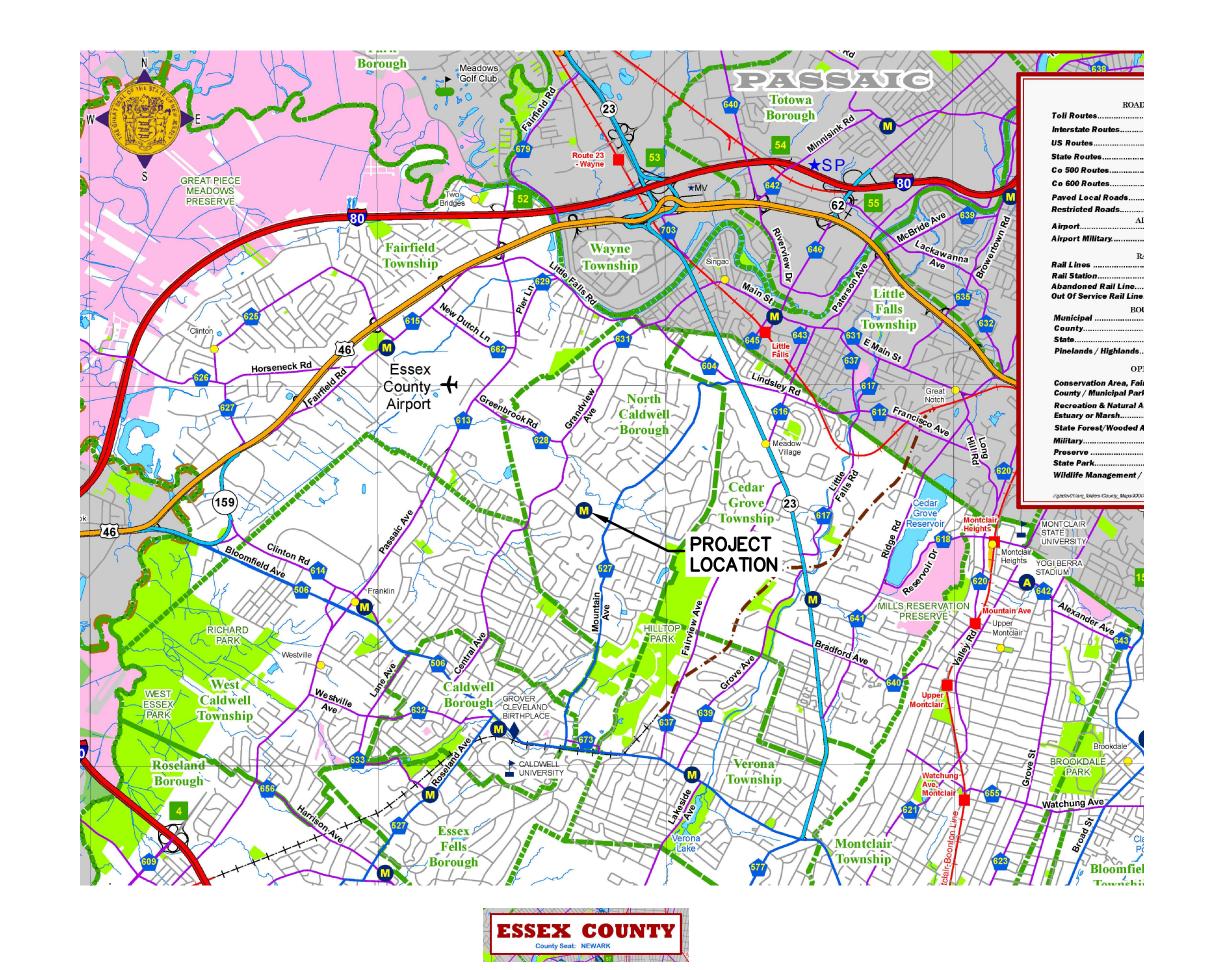
CONSTRUCTION PLAN GOULD AVENUE ATHLETIC COURTS LOT 39 BLOCK 1200 BOROUGH OF NORTH CALDWELL ESSEX COUNTY, NEW JERSEY

ESTIMATE OF QUANTITIES							
ITEM NO	ESTIMATED QUANTITY	UNIT	DESCRIPTION				
1	1	LS	MOBILIZATION, SITE PREPARATION AND CLEARING SITE				
2	1	LS	SOIL EROSION AND SEDIMENT CONTROL MEASURES				
3	20	CY	EXCAVATION, TEST PIT				
4	450	CY	EXCAVATION, UNCLASSIFIED				
5	200	CY	EXCAVATION, EXTRA DEPTH/UNSUITABLE				
6	400	CY	SOIL AGGREGATE, I-5				
7	4800	SY	DENSE GRADED AGGREGATE BASE, 6" THICK				
8	1200	TON	HOT MIX ASPHALT BASE COURSE 12.5M64				
9	600	TON	HOT MIX ASPHALT SURFACE COURSE 9.5M64				
10	109	LF	8" HDPE				
11	250	LF	8" HDPE, PERFORATED UNDERDRAIN				
12	67	LF	12" HDPE				
13	166	LF	12" HDPE, PERFORATED UNDERDRAIN				
14	5	UNIT	INLET, 2' X 2'				
15	1	UNIT	INLET, TYPE A				
16	100	LF	CHAIN LINK FENCE, POWDER COAT BLK, 4' (COURT DIVIDER)				
17	65	LF	CHAIN LINK FENCE, POWDER COAT BLK, 6' (COURT DIVIDER)				
18	1060	LF	CHAIN LINK FENCE, POWDER COAT BLK, 10' (COURT PERIMETER)				
19	4	UNIT	GATE, C.L. FENCE, POWDER COAT BLK, 5' WIDE (COURT ACCESS)				
20	175	SY	CONCRETE SIDEWALK, 4" THICK				
21	13	LF	12" X 18" CONCRETE VERTICAL CURB				
22	1	LS	PAVEMENT MARKINGS (PARKING STALLS AND ADA SYMBOLS)				
23	3	SF	SIGNS, REGULATORY (ADA PARKING SPACES)				
24	2	UNIT	CONCRETE FOOTING, LIGHT POLE BASE				
25	16	UNIT	CONCRETE FOOTING, NET BASE				
26	1	UNIT	LACROSSE WALL				
27	180	SF	SEGMENTAL BLOCK RETAINING WALL				
28	200	SY	TOPSOIL SPREADING, 4" THICK				
29	200	SY	FERTILIZING AND SEEDING, TYPE A-3				
30	200	SY	STRAW MULCHING WITH TACKIFIER				
31	1	LS	FINAL CLEAN UP				





INDEX OF DRAWINGS						
DESCRIPTION	SHEET NO.					
TITLE SHEET	1					
DEMOLITION PLAN	2					
CONSTRUCTION PLAN	3					
GRADING, SOIL EROSION & SEDIMENT CONTROL PLAN	4					
SOIL EROSION & SEDIMENT CONTROL DETAILS	5					
DETAILS	6					
DETAILS	7					
DETAILS	8					

NOTES RELATING TO BID ITEMS:

1. ESTIMATED QUANTITIES MAY INCLUDE SHEET TOTALS AND IF AND WHERE DIRECTED QUANTITIES

- 2. THE TREE SIZES INDICATED ON THE PLANS ARE APPROXIMATE AND SHALL BE CONFIRMED BY THE CONTRACTOR. TREE REMOVAL SHALL BE CONSIDERED INCLUDED IN THE LUMP SUM PRICE BID FOR MOBILIZATION, SITE PREPARATION AND CLEARING SITE AND THERE SHALL BE NO ADDITIONAL COSTS FOR TREE REMOVAL BASED ON THE TREE SIZES INDICATED ON THE PLANS.
- 3. IF ELECTING TO AWARD, THE GOVERNING BODY WILL AWARD THE BASE BID, ITEMS 1 THROUGH 42, PLUS OR WITHOUT ALTERNATE BID NO. 1. ALTERNATE BID NO. 1 WILL NOT BE AWARDED SEPARATELY FROM THE BASE BID. IF ALTERNATE BID NO. 1 IS AWARDED, ANY ADDITIONAL MOBILIZATION, SITE PREPARATION, FINAL CLEANUP AND OTHER COSTS REQUIRED FOR IMPLEMENTING THE ALTERNATE BID SHALL BE CONSIDERED INCLUDED IN THE LUMP SUM PRICE BID FOR THE ALTERNATE BID.
- 4. THE FUEL PRICE ADJUSTMENT PROVISIONS OF THE STATE STANDARD SPECIFICATIONS DO NOT APPLY TO THIS CONTRACT SINCE IT IS ANTICIPATED THAT THE FUEL USED FOR ELIGIBLE ITEMS WILL BE LESS THAN 500 GALLONS. IN THE EVENT 500 OR MORE GALLONS OF FUEL IS USED FOR ELIGIBLE ITEMS, THE FUEL PRICE ADJUSTMENT SHALL BE CALCULATED AS PART OF THE FINAL QUANTITIES CHANGE ORDER.
- 5. THE ASPHALT PRICE ADJUSTMENT PROVISIONS OF THE STATE STANDARD SPECIFICATIONS DO NOT APPLY TO THIS CONTRACT SINCE IT IS ANTICIPATED THAT THE ASPHALT USED WILL BE LESS THAN 1,000 TONS.
- 6. ALL WORK REQUIRED TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS SHALL BE CONSIDERED INCLUDED IN THE VARIOUS LINE ITEMS PROVIDED IN THE PROPOSAL.

GENERAL NOTES:

- 1. THE 2019 NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, WITH AMENDMENTS THERETO TO GOVERN.
- 2. ALL REINFORCED CONCRETE STORM DRAIN PIPE TO BE CLASS V, UNLESS INDICATED OTHERWISE ON THE CONSTRUCTION PLANS. ALL HDPE PIPE TO BE HIGH DENSITY POLYETHYLENE PIPE, N-12 UNLESS INDICATED OTHERWISE ON THE PLANS.
- 3. THERE SHALL BE NO SEPARATE PAYMENT FOR SAW CUTTING THE EXISTING PAVEMENT FOR EITHER STORM DRAINS, CURB OR BASE REPAIRS. ALL COSTS SHALL BE CONSIDERED INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS ITEMS IN THE PROPOSAL.

NO. DATE DESCRIPTION SURVEYED DRAWN BY DESIGNED CHECKED BY



Boswell engineering

ENGINEERS - PLANNERS - SURVEYORS - SCIENTISTS

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N.J. CERTIFICATE OF AUTHORIZATION No. 24GA27958000

PAUL W. FERRIERO

PROFESSIONAL ENGINEER N.J. LIC. 32978

GOULD AVENUE ATHLETIC COURTS

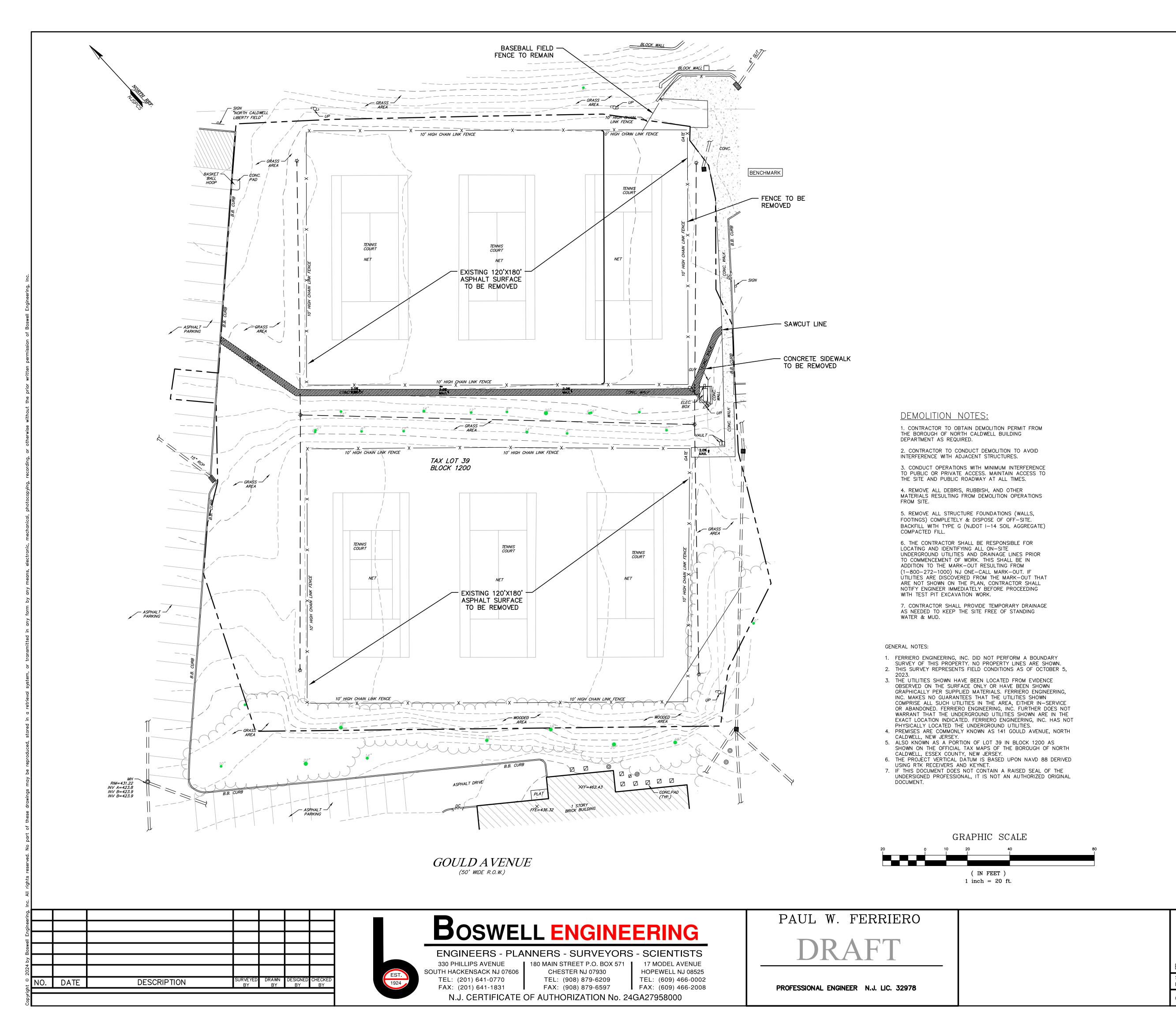
TITLE SHEET

BOROUGH OF NORTH CALDWELL

SURVEYED BY: XXX DESIGNED BY: XXX SCALE: JOB NO. DATE DRAWN BY: EJS CHECKED BY: PWF X" = XX' 23NC103 1/5/2024

DRAWN BY: EJS CHECKED BY: PWF X" = XX' 23NC103 1/5/202

CADD FILE: 23NC103_BASEMAP.DWG SHEET 1 OF 8



GOULD AVENUE ATHLETIC COURTS

DEMOLITION PLAN

LEGEND

EXISTING TREE LINE

EXISITNG SHRUB

SILT FENCE

LIMIT OF DISTURBANCE

SIGN

TOPSOIL STOCKPILE

EXISTING DECIDUOUS TREE

EXISITNG EVERGREEN TREE

EXISTING TREE TO BE REMOVED

PROPOSED DECIDUOUS TREE

INLET SEDIMENT CONTROL DEVICE

PROPOSED CONTOUR LINE X X EXISTING FENCE

EXISTING SPOT GRADE

PROPOSED SPOT GRADE

PROPOSED CURB LINE

EXISTING STORM/SAN PIPE

EXISTING OVERHEAD WIRE

EXISTING UTILITY POLE

EXISTING SITE LIGHT

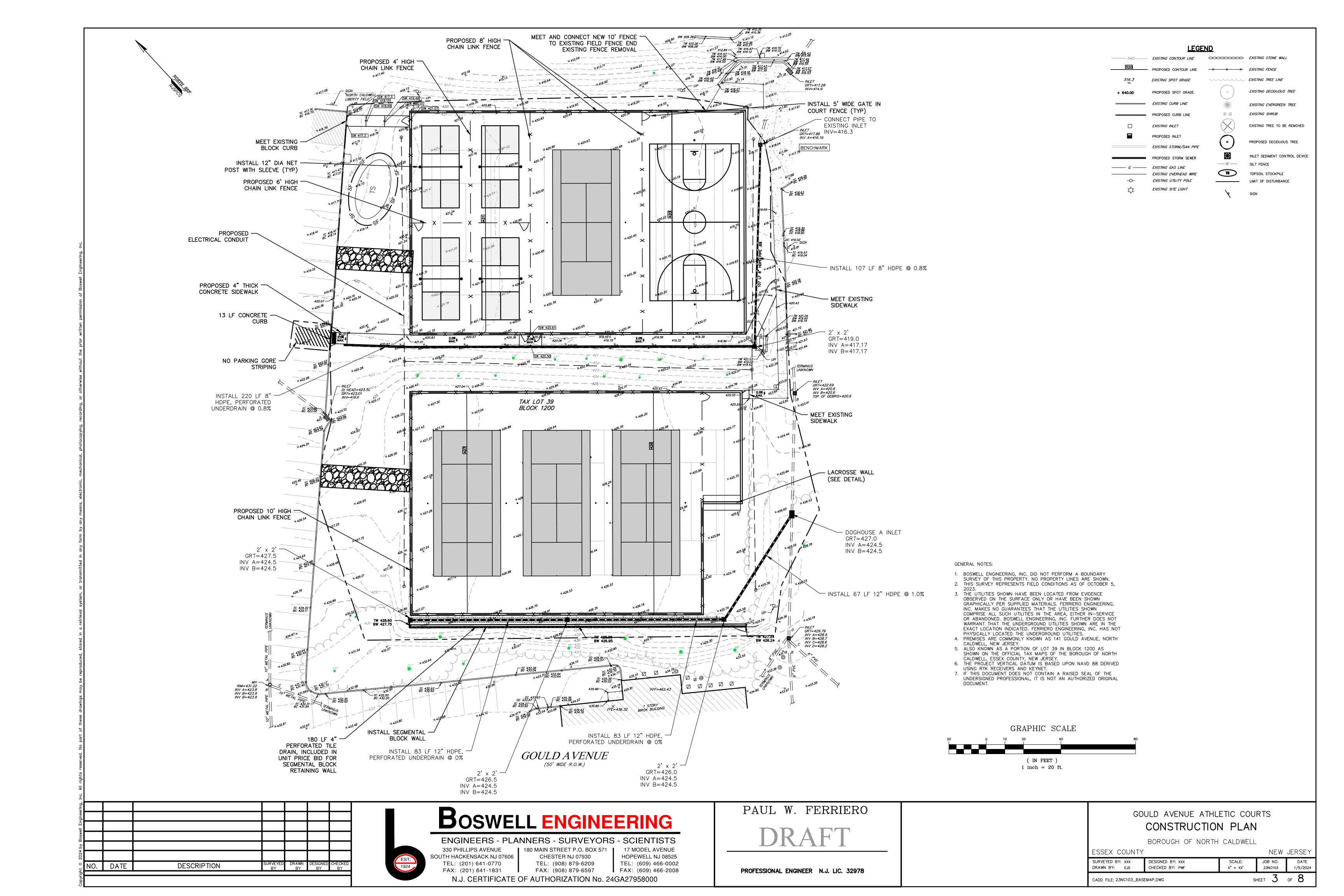
PROPOSED INLET

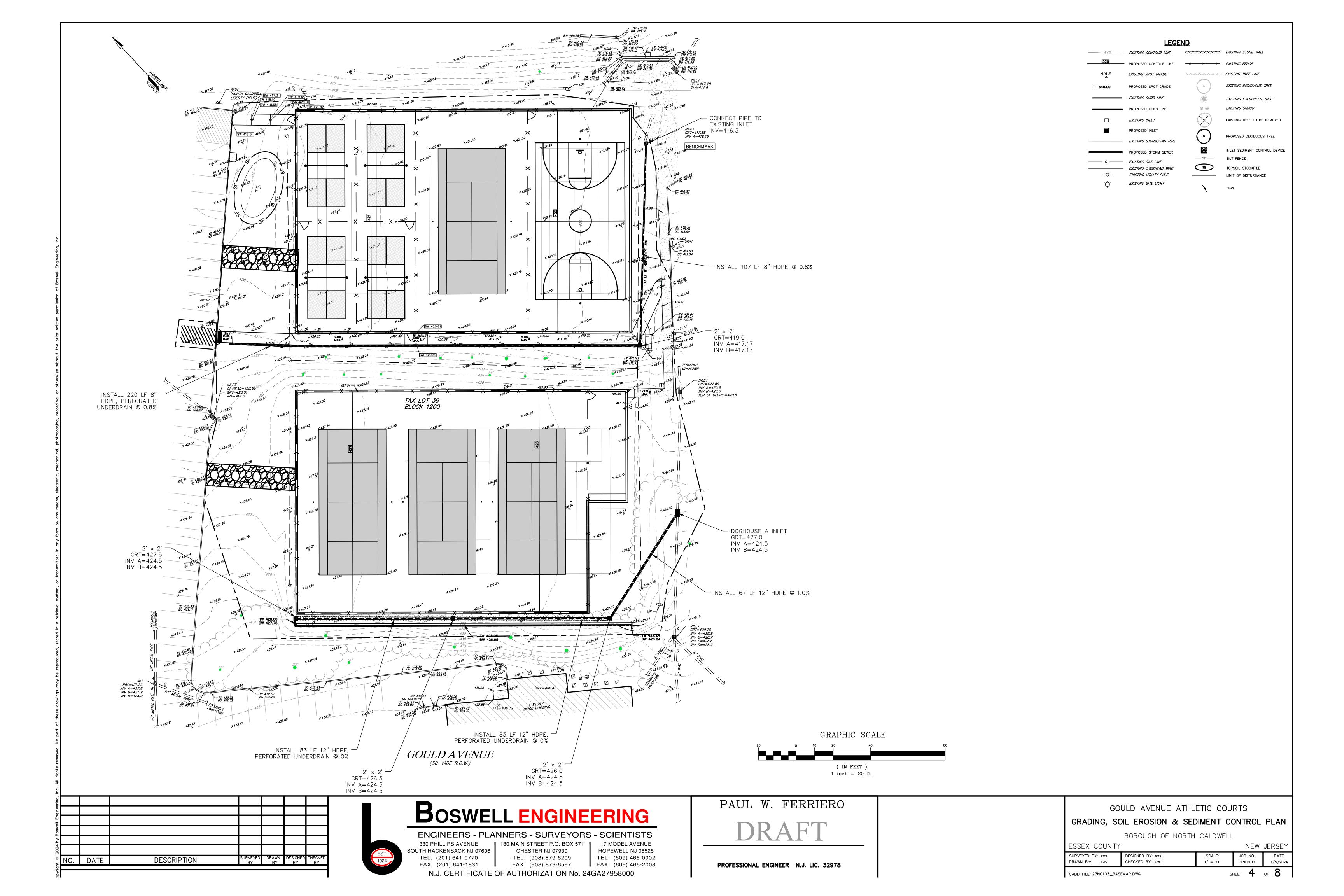
PROPOSED STORM SEWER

EXISTING CURB LINE

---- G ---- EXISTING GAS LINE

BOROUGH OF NORTH CALDWELL





HUDSON-ESSEX-PASSAIC COUNTY SOIL CONSERVATION DISTRICT SOIL EROSION & SEDIMENT CONTROL NOTES

- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THIS PLAN WILL BE CONSTRUCTED IN ACCORDANCE WITH THE "NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL" 7TH EDITION LAST REVISED JULY 17, EFFECTIVE DECEMBER 2017. THESE MEASURES WILL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- ALL SOIL TO BE EXPOSED OR STOCKPILED FOR A PERIOD OF GREATER THAN 14 DAYS, AND NOT UNDER ACTIVE CONSTRUCTION, WILL BE TEMPORARILY SEEDED AND HAY MULCHED OR OTHERWISE PROVIDED WITH VEGETATIVE COVER. THIS TEMPORARY COVER SHALL BE MAINTAINED UNTIL SUCH TIME WHEREBY PERMANENT RESTABILIZATION IS ESTABLISHED.
- SEEDING DATES: THE FOLLOWING SEEDING DATES ARE RECOMMENDED TO BEST ESTABLISH PERMANENT VEGETATIVE COVER WITHIN MOST LOCATIONS IN THE HEPSCD: <u>SPRING - 3/1-5/15</u> AND <u>FALL - 8/15 - 10/1</u>
- 4. SEDIMENT FENCES ARE TO BE PROPERLY TRENCHED AND MAINTAINED UNTIL PERMANENT VEGETATIVE COVER IS ESTABLISHED
- ALL STORM DRAINAGE INLETS SHALL BE PROTECTED BY ONE OF THE PRACTICES ACCEPTED IN THE STANDARDS, AND PROTECTION SHALL REMAIN UNTIL PERMANENT STABILIZATION HAS BEEN ESTABLISHED. STORM DRAINAGE OUTLET POINTS SHALL BE
- PROTECTED AS REQUIRED BEFORE THEY BECOME FUNCTIONAL MULCH MATERIALS SHALL BE UN-ROTTED SMALL GRAIN STRAW APPLIED AT THE RATE OF 70 TO 90 POUNDS PER 1,000 SQUARE FEET AND ANCHORED WITH A MULCH ANCHORING TOOL, LIQUID MULCH BINDERS, OR NETTING TIE DOWN. OTHER SUITABLE MATERIALS MAY BE USED IF APPROVED BY THE SOIL CONSERVATION DISTRICT.
- ALL EROSION CONTROL DEVICES SHALL BE PERIODICALLY INSPECTED, MAINTAINED AND CORRECTED BY THE CONTRACTOR. ANY DAMAGE INCURRED BY EROSION SHALL BE RECTIFIED IMMEDIATELY.
- 8. THE HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT WILL BE NOTIFIED IN WRITING AT LEAST 48 HOURS PRIOR TO ANY SOIL DISTURBING ACTIVITIES. FAX -(862) 333-4507 OR EMAIL - INFORMATION@HEPSCD.ORG
- THE APPLICANT MUST OBTAIN A DISTRICT ISSUED REPORT—OF—COMPLIANCE PRIOR APPLYING FOR THE CERTIFICATE OF OCCUPANCY OR TEMPORARY CERTIFICATE OF OCCUPANCY FROM THE RESPECTIVE MUNICIPALITY, NJ — DCA OR ANY OTHER CONTROLLING AGENCY. CONTACT THE DISTRICT AT 862—333—4505 TO REQUEST A FINAL INSPECTION, GIVING ADVANCED NOTICE UPON COMPLETION OF THE RESTABILIZATION MEASURES. A PERFORMANCE DEPOSIT MAY BE POSTED WITH THE DISTRICT WHEN WINTER WEATHER OR SNOW COVER PROHIBITS THE PROPER APPLICATION OF SEED, MULCH, FERTILIZER OR HYDRO-SEED.
- 10. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES. DO NOT UTILIZE A FIRE OR GARDEN HOSE TO CLEAN ROADS UNLESS THE RUNOFF IS DIRECTED TO A PROPERLY DESIGNED AND FUNCTIONING SEDIMENT BASIN. WATER PUMPED OUT OF THE EXCAVATED AREAS CONTAINS SEDIMENTS THAT MUST BE REMOVED PRIOR TO DISCHARGING TO RECEIVING BODIES OF WATER USING REMOVABLE PUMPING STATIONS, SUMP PITS, PORTABLE SEDIMENTATION TANKS AND/OR SILT CONTROL BAGS
- 11. ALL SURFACES HAVING LAWN OR LANDSCAPING AS FINAL COVER ARE TO BE PROVIDED TOPSOIL PRIOR TO RE-SEEDING, SODDING OR PLANTING. A DEPTH OF 5 INCHES, FIRMED IN PLACE, IS REQUIRED AS PER THE STANDARDS FOR TOPSOILING AND LAND GRADING, LAST REVISED DECEMBER 2017.
- 12. ALL PLAN REVISIONS MUST BE SUBMITTED TO THE DISTRICT FOR PROPER REVIEW AND APPROVAL.
- 13. A CRUSHED STONE WHEEL CLEANING TRACKING-PAD IS TO BE INSTALLED AT ALL SITE EXITS USING 2 ½ -1"CRUSHED ANGULAR STONE (ASTM 2 OR 3) TO A MINIMUM LENGTH OF 50 FEET AND MINIMUM DEPTH OF 6". ALL DRIVEWAYS MUST BE PROVIDED WITH CRUSHED STONE UNTIL PAVING IS COMPLETE.
- 14. STEEP SLOPES INCURRING DISTURBANCE MAY REQUIRE ADDITIONAL STABILIZATION MEASURES. THESE "SPECIAL" MEASURES SHALL BE DESIGNED BY THE APPLICANT'S ENGINEER AND BE APPROVED BY THE SOIL CONSERVATION DISTRICT.
- 15. THE HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED, IN WRITING, FOR THE SALE OF ANY PORTION OF THE PROJECT OR FOR THE SALE OF INDIVIDUAL LOTS. NEW OWNERS' INFORMATION SHALL BE PROVIDED. ADDITIONAL MEASURES DEEMED NECESSARY BY DISTRICT OFFICIALS SHALL BE IMPLEMENTED AS CONDITIONS WARRANT.

DUST CONTROL NOTES

THE FOLLOWING METHODS SHOULD BE CONSIDERED FOR CONTROLLING DUST:

MULCHES - SEE STANDARDS FOR STABILIZATION WITH MULCHES ONLY (PG. 5-1) VEGETATIVE COVER - SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER (PG. 7-1), PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION (PG. 4-1), AND PERMANENT STABILIZATION WITH SOD (PG. 6-1).

SPRAY ON ADHESIVES - ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS.

MATERIAL	WATER DILUTION	TYPE OF NOZZLE	
ANIONIC ASPHALT EMULSION	7:1	COARSE SPRAY	
LATEX EMULSION	12.5:1	FINE SPRAY	
RESIN IN WATER	4: 1	FINE SPRAY	
POLYACRYLAMIDE (PAM) - SPRAY ON POLYACRYLAMIDE (PAM) - DRY SPRAY	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 (PG. 26-1)		
ACIDULATION SOY BEAN SOAP STICK	NONE	COARSE SPRAY	

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

SPRINKLING - SITE IS SPRINKLED UNTIL 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 OF 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

EACH 5,000 SQUARE FEET OF CUT FACE OF EARTH EXCAVATION AND/OR FILL FOR ROADWAY SLOPES WILL BE TREATED TO ESTABLISH A TEMPORARY VEGETATIVE COVER AS DESCRIBED IN THE "STANDARDS FOR SOIL EROSION AND SEDIMENTATION CONTROL IN NEW JERSEY" IMMEDIATELY AFTER THE COMPLETION OF EXCAVATION AND/OR EMBANKMENT OPERATIONS IN THE SAME AREA.

TOPSOIL STOCKPILE PROTECTION

LBS./1000 S.F.

MULCH.

- a. APPLY GROUND LIMESTONE AT A RATE OF 90 LBS. PER 1000 SF. b. APPLY FERTILIZER (10-20-10) AT A RATE OF 11 LBS/1000 S.F.
- c. APPLY PERENNIAL RYEGRASS SEED AT A RATE OF 1 LB/1000 S.F. AND ANNUAL RYEGRASS AT 1 LB. PER 1000 S.F.
- d. MULCH STOCKPILE WITH STRAW OR HAY AT AT RATE OF 90
- e. APPLY A LIQUID MULCH BINDER OR TACK TO STRAW OR HAY
- PROPERLY ENTRENCH A SILT FENCE AT THE BOTTOM OF THE STOCKPILE.

TEMPORARY STABILIZATION SPECIFICATIONS

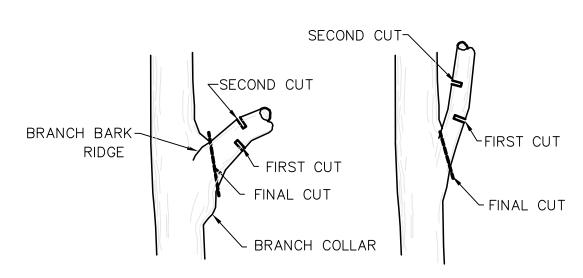
- a. APPLY GROUND LIMESTONE AT A RATE OF 90 LBS. PER 1000 SF. b. APPLY FERTILIZER (10-20-10) AT A RATE OF 11 LBS/1000 S.F.
- c. APPLY PERENNIAL RYEGRASS SEED AT A RATE OF 1 LB/1000 S.F. AND ANNUAL RYEGRASS AT 1 LB. PER 1000 S.F. d. MULCH STOCKPILE WITH STRAW OR HAY AT AT RATE OF 90
- LBS./1000 S.F. e. APPLY A LIQUID MULCH BINDER OR TACK TO STRAW OR HAY

PERMANENT STABILIZATION SPECIFICATIONS

- a. APPLY TOPSOIL TO A DEPTH OF 5 INCHES (UNSETTLED) b. APPLY GROUND LIMESTONE AT A RATE OF 90 LBS. PER 1000 SF. AND WORK FOUR INCHES INTO SOIL.
- c. APPLY FERTILIZER (10-20-10) AT A RATE OF 11 LBS/1000 S.F. d. APPLY ATHLETIC FIELD MIX: KENTUCKY 31 TALL FESCUE SEED AT 2.7 LBS./1000 S.F., CHEWINGS RED FESCUE A7 0.7 LBS./1000 S.F., CREEPING RED FESCUE SEED AT 0.7 LBS./1000 S.F. AND PERENNIAL RYEGRASS SEED AT 0.7 LBS./1000 S.F.
- e. MULCH STOCKPILE WITH STRAW OR HAY AT AT RATE OF 90
- f. APPLY A LIQUID MULCH BINDER OR TACK TO STRAW OR HAY MULCH.

BOARDWALK SPECIFICATIONS

- 1. ALL TIMBER SHALL BE PRESSURE TREATED AS PER CURRENT STATE AND/OR ASHTO SPECIFICATIONS.
- 2. ALL TIMBER TO BE GRADED AS PER NFPA 1991 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION
- 3. STRINGERS AND DIAPHRAGMS ARE TO BE DOUGLAS FIR-LARCH, SELECT GRADE AND ARE TO BE PENTA TREATED AS PER CURRENT STATE SPECIFICATIONS.
- 4. DECK PLANK IS TO BE SOUTHERN YELLOW PINE, NO. 2 (S4S), AND IS TO BE CCA TREATED AS PER CURRENT STATE SPECIFICATIONS.
- 5. ALL TIMBER IS ROUGH UNLESS OTHERWISE NOTED. 6. ALL TIMBER CUT IN THE FIELD SHALL BE TREATED WITH AN APPROVED PRESERVATIVE
- 7. ALL HARDWARE TO BE GALVANIZED AS PER CURRENT STATE SPECIFICATIONS
- AND/OR AASHTO SPECIFICATIONS M232. 8. CONSTRUCTION REQUIREMENTS SHALL CONFORM TO STATE SPECIFICATIONS
- 9. ALL TIMBER TO BE CUT TO EXACT LENGTH DRESSED TO SIZE REQUIRED AND ALL PRACTICAL FRAMING TO BE DONE PRIOR TO TREATMENT. 10. TIMBER FABRICATOR SHALL PROVIDE PREFRAMING DETAILS TO ENGINEER
- PRIOR TO TREATMENT OF MATERIALS 11. 2"x12" BLOCKING SHALL BE PROVIDED FOR JOISTS AT HEADERS AND MID SPAN OR AS REQUIRED BY CODE



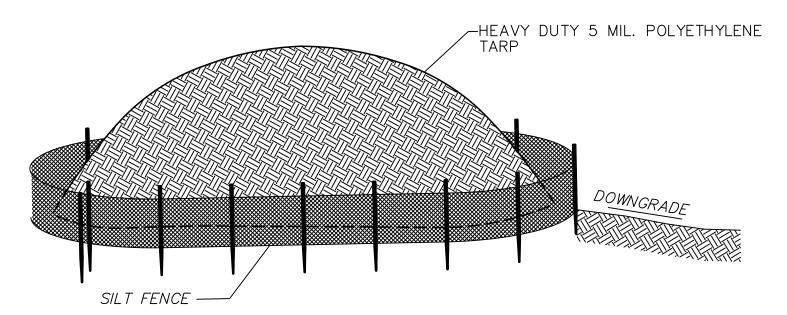
REMOVAL OF TREE LIMB REMOVAL OF "V" CROTCH LIMB

TREE LIMB REMOVAL DETAILS

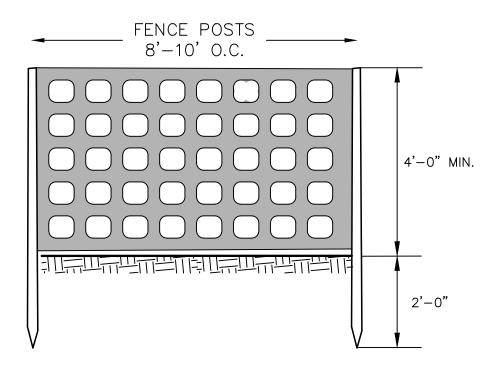
NOT TO SCALE

ADDITIONAL SOIL EROSION & SEDIMENT CONTROL NOTES

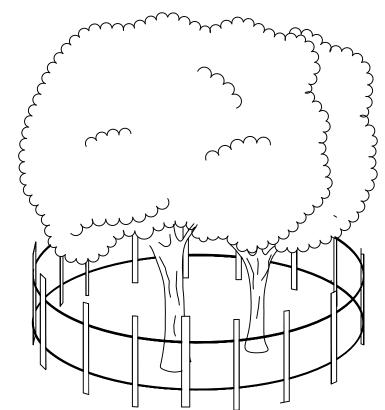
- 1. ANY DISTURBED AREA THAT WILL BE LEFT EXPOSED FOR MORE THAN FOURTEEN (14) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW OR HAY AND TACKED IN ACCORDANCE WITH THE NEW JERSEY STANDARDS. SEE NOTE 3 BELOW.
- 2. PERMANENT SEEDING AND STABILIZATION TO BE IN ACCORDANCE WITH THE "STANDARDS FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION COVER". SPECIFIED RATES AND LOCATIONS SHALL BE ON THE APPROVED SOIL EROSION AND SEDIMENT CONTROL PLAN.
- 3. TOPSOIL STOCKPILE PROTECTION a. APPLY GROUND LIMESTONE AT A RATE OF 90 LBS PER 1,000 SQ. FT. UNLESS A SOIL TEST SPECIFIES OTHERWISE. b. APPLY FERTILIZER (10-10-10) AT A RATE OF 11 LBS. PER 1,000 SQ. FT. UNLESS A SOIL TEST SPECIFIES OTHERWISE. c. APPLY PERENNIAL RYEGRASS SEED AT 1 LB. PER 1,000 SQ. FT. AND ANNUAL RYEGRASS AT 1 LB. PER 1,000 SQ. FT. d. MULCH STOCKPILE WITH UNROTTED SMALL GRAIN STRAW AT A RATE OF 90 LBS. PER 1,000 SQ. FT.
- e. APPLY A LIQUID MULCH BINDER OR TACK TO UNROTTED SMALL GRAIN STRAW. f. PROPERLY ENTRENCH A SILT FENCE AT THE BOTTOM OF THE STOCKPILE.
- 4. TEMPORARY SEEDING SPECIFICATIONS a. APPLY GROUND LIMESTONE AT A RATE OF 90 LBS PER 1,000 SQ. FT. UNLESS A SOIL TEST SPECIFIES OTHERWISE.
- b. APPLY FERTILIZER (10-10-10) AT A RATE OF 11 LBS. PER 1,000 SQ. FT. UNLESS A SOIL TEST SPECIFIES OTHERWISE c. APPLY PERENNIAL RYEGRASS SEED AT 1 LB. PER 1,000 SQ. FT. AND ANNUAL RYEGRASS AT 1 LB. PER 1,000 SQ. FT. (2/15 - 5/1) OR 8/15 - 5/110/15) OR PEARL MILLET AT A RATE OF 0.5 LB PER 1,000 SQ. FT. (5/1 - 9/1).
- d. MULCH SEEDED AREAS WITH UNROTTED SMALL GRAIN STRAW AT A RATE OF 90 LBS. PER 1,000 SQ. FT.
- e. APPLY A LIQUID MULCH BINDER OR TACK TO UNROTTED SMALL GRAIN STRAW. 5. PERMANENT SEEDING SPECIFICATIONS
- a. APPLY TOPSOIL TO A DEPTH OF 5 INCHES (UNSETTLED).
- b. APPLY GROUND LIMESTONE AT A RATE OF 90 LBS PER 1,000 SQ. FT. AND WORK FOUR INCHES INTO SOIL UNLESS A SOIL TEST SPECIFIES
- c. APPLY FERTILIZER (10-20-10) AT A OF RATE 11 LBS. PER 1,000 SQ. FT. UNLESS A SOIL TEST SPECIFIES OTHERWISE. d. APPLY HARD FESCUE SEED AT 2.5 LBS. PER 1,000 SQ. FT. AND CREEPING RED FESCUE SEED AT 1.5 LBS PER 1,000 SQ. FT. AND PERENNIAL
- RYEGRASS SEED AT 1.0 LBS PER 1,000 SQ. FT. PLANTING SHALL OCCUR BETWEEN 2/1 4/30 OR 8/15 10/30. PLANTING MAY BE CONDUCTED FROM 5/1 TO 8/14 IF IRRIGATION IS PROVIDED IN ACCORDANCE WITH THE NEW JERSEY STANDARDS.
- e. MULCH SEEDED AREAS WITH UNROTTED SMALL GRAIN STRAW AT A RATE OF 90 LBS. PER 1.000 SQ. FT.
- f. APPLY A LIQUID MULCH BINDER OR TACK TO STRAW OR HAY MULCH.



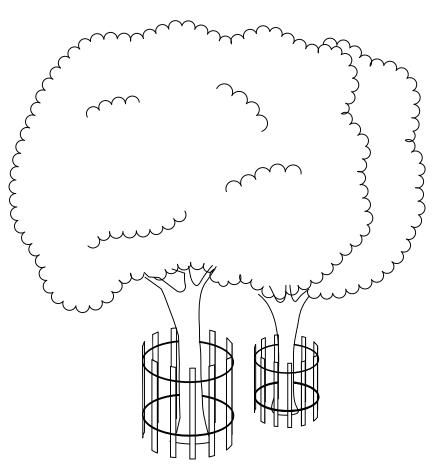
TOPSOIL STOCKPILE NOT TO SCALE



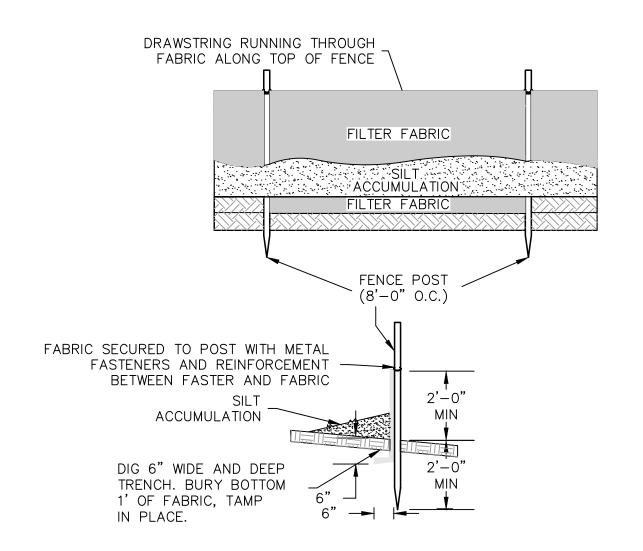
CONSTRUCTION/SAFETY/TREE PROTECTION FENCE NTS



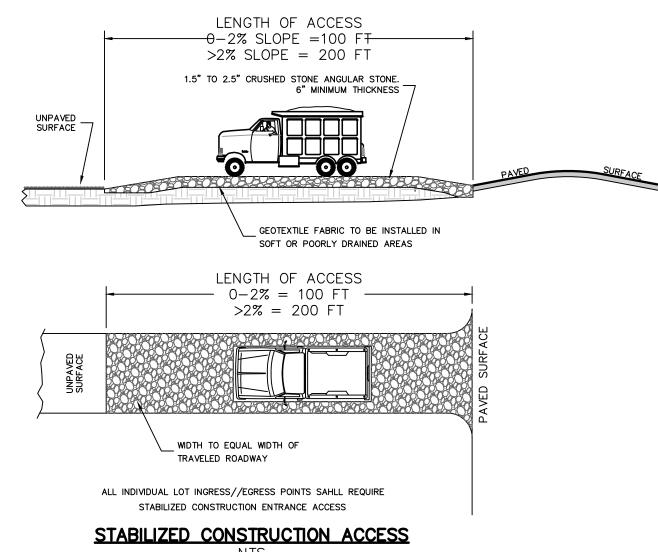
CORRECT FENCING FOR TREE PROTECTION



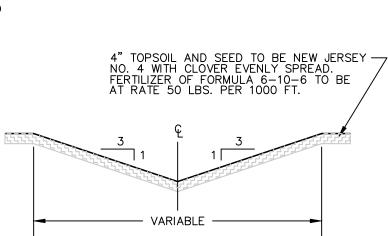
INCORRECT FENCING FOR TREE PROTECTION



SILT FENCE



PERCENT SLOPE OF ROADWAY	LENGTH OF STONE REQUIRED		
	COARSE GRAINED SOILS	FINE GRAINED SOILS	
0 TO 2%	50 FT	100 FT	
2 TO 5%	100 FT	200 FT	
>5%	ENTIRE SURFACE STABILIZED WITH HOT MIX	(ASPHALT BASE COURSE, MIX I-2	



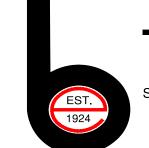
GRASS SWALE DETAIL

TREE PROTECTION NOTES:

- 1. BOARDS WILL NOT BE NAILED TO TREES DURING CONSTRUCTION.
- 2. DAMAGED TRUNKS OR EXPOSED ROOTS SHOULD HAVE DAMAGED BARK REMOVED IMMEDIATELY AND NO PAINT SHALL BE APPLIED. EXPOSED ROOTS SHOULD BE COVERED WITH TOPSOIL IMMEDIATELY AFTER EXCAVATION IS COMPLETE. ROOTS SHALL BE PRUNED TO GIVE A CLEAN, SHARP SURFACE AMENABLE TO HEALING. ROOTS EXPOSED DURING HOT WEATHER SHOULD BE IRRIGATED TO PREVENT PERMANENT TREE INJURY.
- 3. TREE LIMB REMOVAL, WHERE NECESSARY, WILL BE DONE AS NATURAL TARGET PRUNING TO REMOVE THE DESIRED BRANCH AS CLOSE AS POSSIBLE TO THE BRANCH COLLAR. THERE SHALL BE NO FLUSH CUTS AND NO TREE PAINT SHALL BE APPLIED.

SURVEYED BY: XXX

DESCRIPTION NO. DATE



Boswell engineering

ENGINEERS - PLANNERS - SURVEYORS - SCIENTISTS 330 PHILLIPS AVENUE OUTH HACKENSACK NJ 07606 TEL: (201) 641-0770

▮ 180 MAIN STREET P.O. BOX 571 ▮ CHESTER NJ 07930 TEL: (908) 879-6209 FAX: (201) 641-1831 FAX: (908) 879-6597

17 MODEL AVENUE HOPEWELL NJ 08525 TEL: (609) 466-0002 FAX: (609) 466-2008 N.J. CERTIFICATE OF AUTHORIZATION No. 24GA27958000

PAUL W. FERRIERO

PROFESSIONAL ENGINEER N.J. LIC. 32978

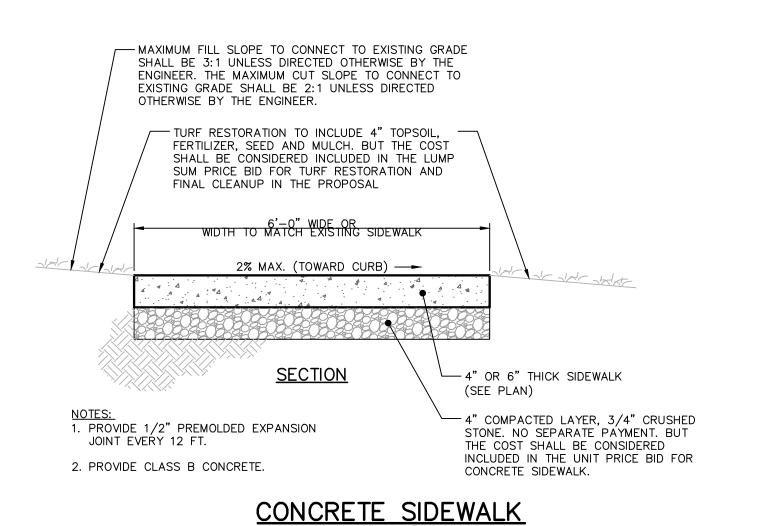
GOULD AVENUE ATHLETIC COURTS SOIL EROSION & SEDIMENT CONTROL DETAILS

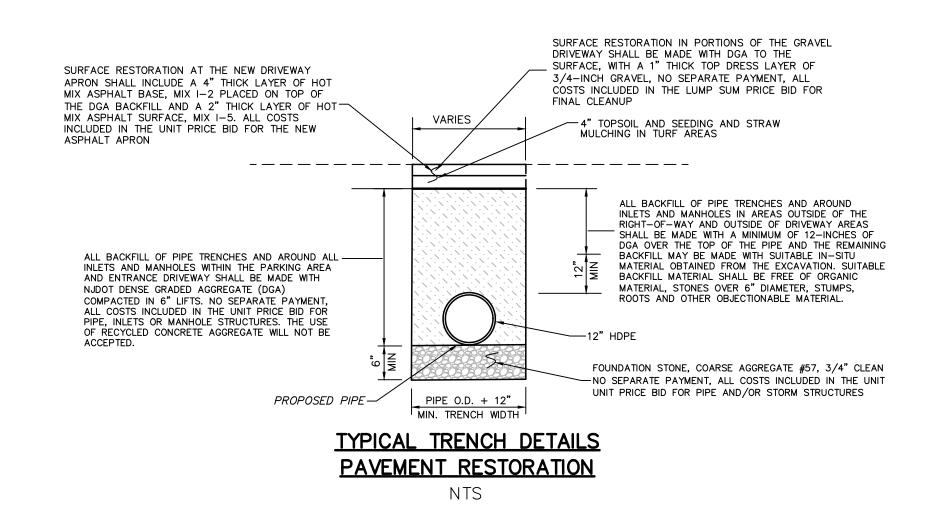
BOROUGH OF NORTH CALDWELL ESSEX COUNTY

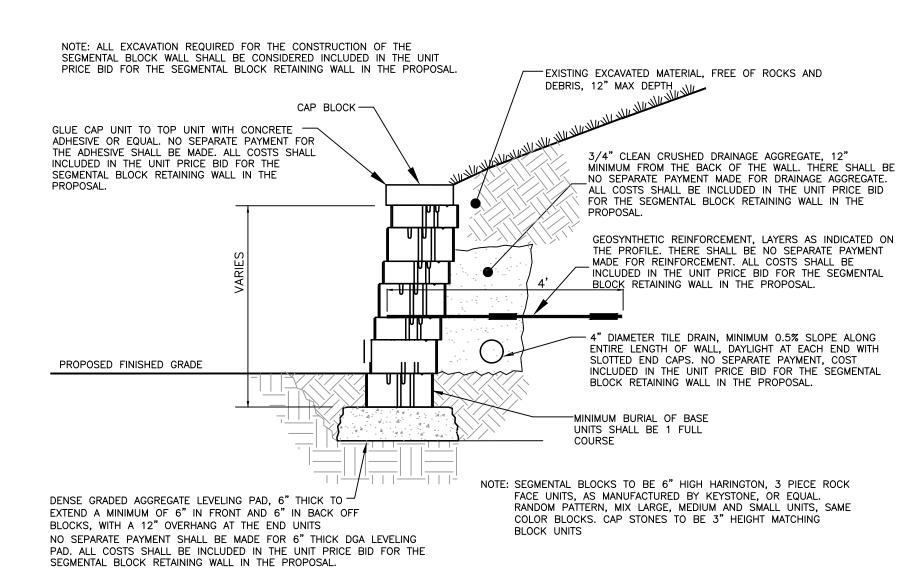
DESIGNED BY: XXX

SCALE: CHECKED BY: PWF 1/5/2024 DRAWN BY: EJS 23NC103 SHEET 5 CADD FILE: 23NC103_BASEMAP.DWG

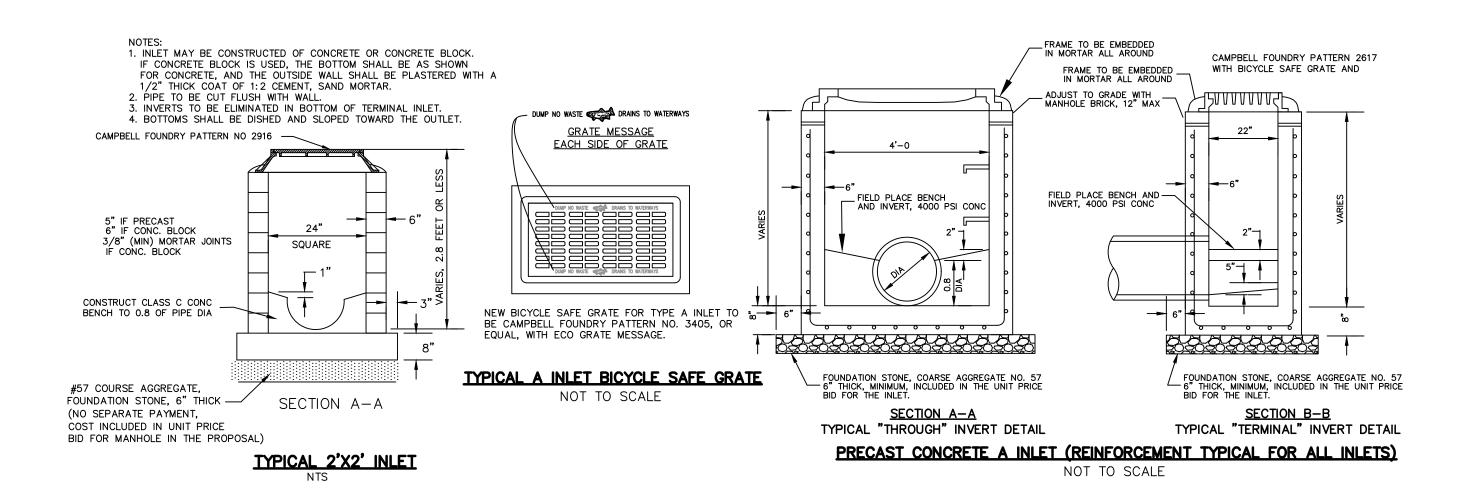
NEW JERSEY

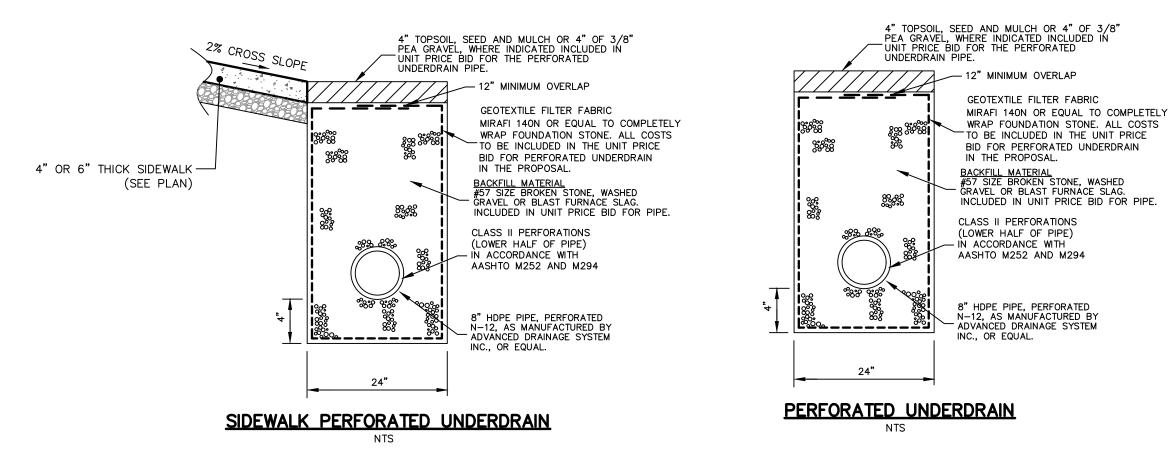


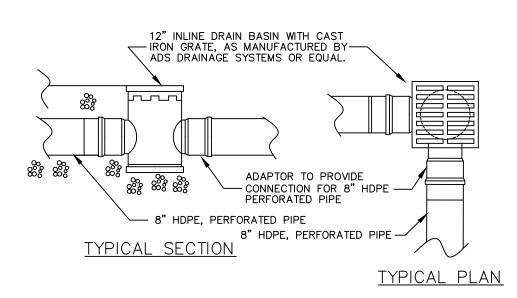




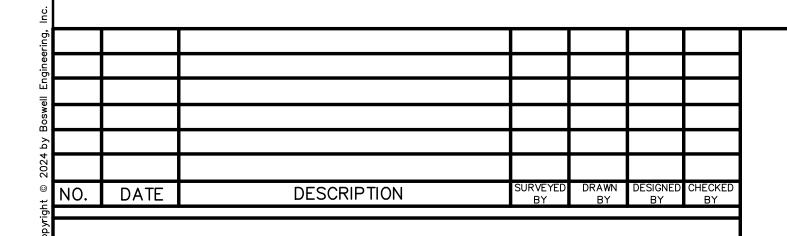
TYPICAL SECTION—SEGMENTAL BLOCK RETAINING WALL NOT TO SCALE







DRAIN BASIN DETAILS





ENGINEERS - PLANNERS - SURVEYORS - SCIENTISTS

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GOULD AVENUE ATHLETIC COURTS

DETAILS

BOROUGH OF NORTH CALDWELL

SURVEYED BY: XXX DESIGNED BY: XXX SCALE: JOB NO. DATE DRAWN BY: EJS CHECKED BY: PWF X" = XX' 23NC103 1/5/2024

CADD FILE: 23NC103_BASEMAP.DWG SHEET 6 OF 8

EL: (201) 641-0770 TEL: (908) 879-6209 TEL: (609) 466-0002
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N.J. CERTIFICATE OF AUTHORIZATION No. 24GA27958000

