PROPERTY OWNERS WITHIN 200 FEET

BLOCK 562, LOT 20 TOWNSHIP OF BERKELEY P. O. BOX B BAYVILLE, NJ 08721 BLOCK 569, LOT 43 C/O REALTY PROPERTY, INC BLOCK 569, LOT 46 TOWNSHIP OF BERKELEY P. O. BOX B BAYVILLE, NJ 08721 CHARLES McCAGUE
320 NAVESINK AVENUE
ATLANTIC HIGHLANDS, NJ 07716 BLOCK 572, LOT 20 P. O. BOX 1029 TOMS RIVER, NJ 08754-1029 BLOCK 563, LOT 13 BLUE RIDGE SOUTH, L.L.C. 38 LONGPORT AVENUE BAYVILLE, NJ 08721 P. O. BOX 1029 TOMS RIVER, NJ 08754-1029 BLOCK 563, LOT 20 JOSEPH L. & THERESA A. BAKEWELL 314 NOLAN AVENUE

OCEAN COUNTY PLANNING BOARD

TOWNSHIP OF BERKELEY MUNICIPAL UTILITIES AUTHORITY 42 STATION ROAD BAYVILLE, NJ 08731

SEASIDE HEIGHTS WATER COMPANY P. O .BOX 38 SEASIDE HEIGHTS, NJ 08751

129 HOOPER AVENUE TOMS RIVER, NJ 080753

UNITED WATER COMPANY

TOWNSHIP OF BERKELEY

BERKELEY WATER COMPANY

SEWERAGE AUTHORITY 255 ROUTE 9 BAYVILLE, NJ 08721

340 ROUTE 9 BAYVILLE, NJ 08721

SHORE WATER COMPANY

BLOCK 573, LOT 1 O.C.E.A.N., INC. P. O. BOX 1029 TOMS RIVER, NJ 08754-1029 BLOCK 573, LOT 7 L. LEACH C/O THEODORE KARRAS MANAHAWKIN, NJ 08050 BLOCK 573, LOT 9 O.C.E.A.N., INC. P. O. BOX 1029 TOMS RIVER, NJ 08754—1029 BLOCK 564, LOT 1 TOWNSHIP OF BERKELEY P. O. BOX B BAYVILLE, NJ 08721 BLOCK 573, LOT 10 O.C.E.A.N., INC.
P. O. BOX 1029
TOMS RIVER, NJ 08754-1029 BLOCK 564, LOT 3 BLOCK 573, LOT 16 KIKI SUMMERS 47 — 07 41ST STREET

SUNNYSIDE, NY 11104 SUBURBAN AGENCY, INC P. O. BOX 109 LAKEWOOD, NJ 08701 BLOCK 573, LOT 24 P. O. BOX 1029 TOMS RIVER, NJ 08754-1029 BLOCK 573, LOT 30

BLOCK 564, LOT 17 O.C.E.A.N., INC. P. O. BOX 1029 TOMS RIVER, NJ 08754-1029 BLOCK 573, LOT 34 O.C.E.A.N., INC. P. O. BOX 1029 TOMS RIVER, NJ 08754-1029 BLOCK 564, LOT 24 O.C.E.A.N., INC. P. O. BOX 1029 TOMS RIVER, NJ 08754-1029 BLOCK 573, LOT 45 2205 EDGAR ROAD POINT PLEASANT, NJ 08742 BADR M. SHEHATA 23 DISNEY DRIVE TOMS RIVER, NJ 08755 BLOCK 578, LOT 1 TOWNSHIP OF BERKELEY BLOCK 569, LOT 1

O.C.E.A.N., INC. P. O. BOX 1029 TOMS RIVER, NJ 08754-1029 BLOCK 578, LOT 26 BLOCK 569, LOT 7 O.C.E.A.N., INC. P. O. BOX 1029 2205 EDGAR ROAD POINT PLEASANT, NJ 08742 TOMS RIVER, NJ 08754-1029 BLOCK 533, LOT 1 TOWNSHIP OF BERKELEY P. O. BOX B BAYVILLE, NJ 08721 BRECKENRIDGE PROPERTIES, L.L.C MONMOUTH BEACH, NJ 07750 BLOCK 569, LOT 47 HENRY BAREIS C/O THEODORE KARRAS

O.C.E.A.N., INC. P. O. BOX 1029 TOMS RIVER, NJ 08754-1029 141 CRUISE ROAD MANAHAWKIN, NJ 08050 STATE OF NEW JERSEY BLOCK 569, LOT 20 JAMES R. & CHRISTINA P. McCARTNEY 285 NOLAN AVENUE DEPARTMENT OF TRANSPORTATION
1035 PARKWAY AVENUE

BLOCK 569, LOT 33 TOWNSHIP OF BERKELEY P. O. BOX B BAYVILLE, NJ 08721

R-150 ZONE REQUIREMENTS

REQUIRED <u>PROVIDED</u> 15,000 SQ.FT. MIN. LOT AREA 15,000 SQ.FT. MIN. LOT FRONTAGE 100 FT. 100 FT. MIN. FRONT SETBACK 35 FT. >35 FT. MIN. REAR SETBACK 30 FT. >30 FT. 10 FT./25 FT. >10 FT./>25 FT. MIN. SIDE YARD ONE/BOTH MIN. FLOOR AREA ONE BEDROOM - 950 SQ.FT. ONE BEDROOM - 950 SQ.FT. TWO BEDROOM - 1,100 SQ.FT. TWO BEDROOM - 1,100 SQ.FT. THREE OR MORE - 1,250 SQ.FT. THREE OR MORE - 1,250 SQ.FT. MAX. LOT COVERAGE <25%

<35 FT.

MAX. BLDG. HEIGHT WAIVERS REQUESTED

1 - SIDEWALK REQUIRED ON BOTH SIDES OF STREET; NO SIDEWALK PROVIDED ON NOLAN AVENUE.

2 - WAIVER FROM PROVIDING STREET TREES ALONG PROPOSED ROADWAYS 3 - WAIVER FROM PROVIDING A LETTER OF INTERPRETATION FROM THE NJDEP

35 FT.

I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE PLANS HAVE BEEN DESIGNED IM CONFORMANCE WITH THE RESIDENTIAL SITE IMPROVEMENT S/ ANDAKOS, NJAC 5:21.

PLANNING BOARD SECRETARY PLANNING BOARD ENGINEER

PLANNING BOARD CHAIRMAN

ROADWAY IMPROVEMENT PLAN(S) APPROVED

COVER SHEET

PROFILES

1-3 OF 3

1 OF 1

OVERALL DEVELOPMENT PLAN

LIGHTING & UTILITY PLAN

CONSTRUCTION DETAILS

DRAINAGE AREA MAPS

TREE REMOVAL PLAN

GRADING AND DRAINAGE PLAN

I-2 OF 2 | SOIL EROSION & SEDIMENT CONTROL PLANS

STORMWATER MAINTENANCE PLAN

BOUNDARY & TOPOGRAPHIC SURVEY

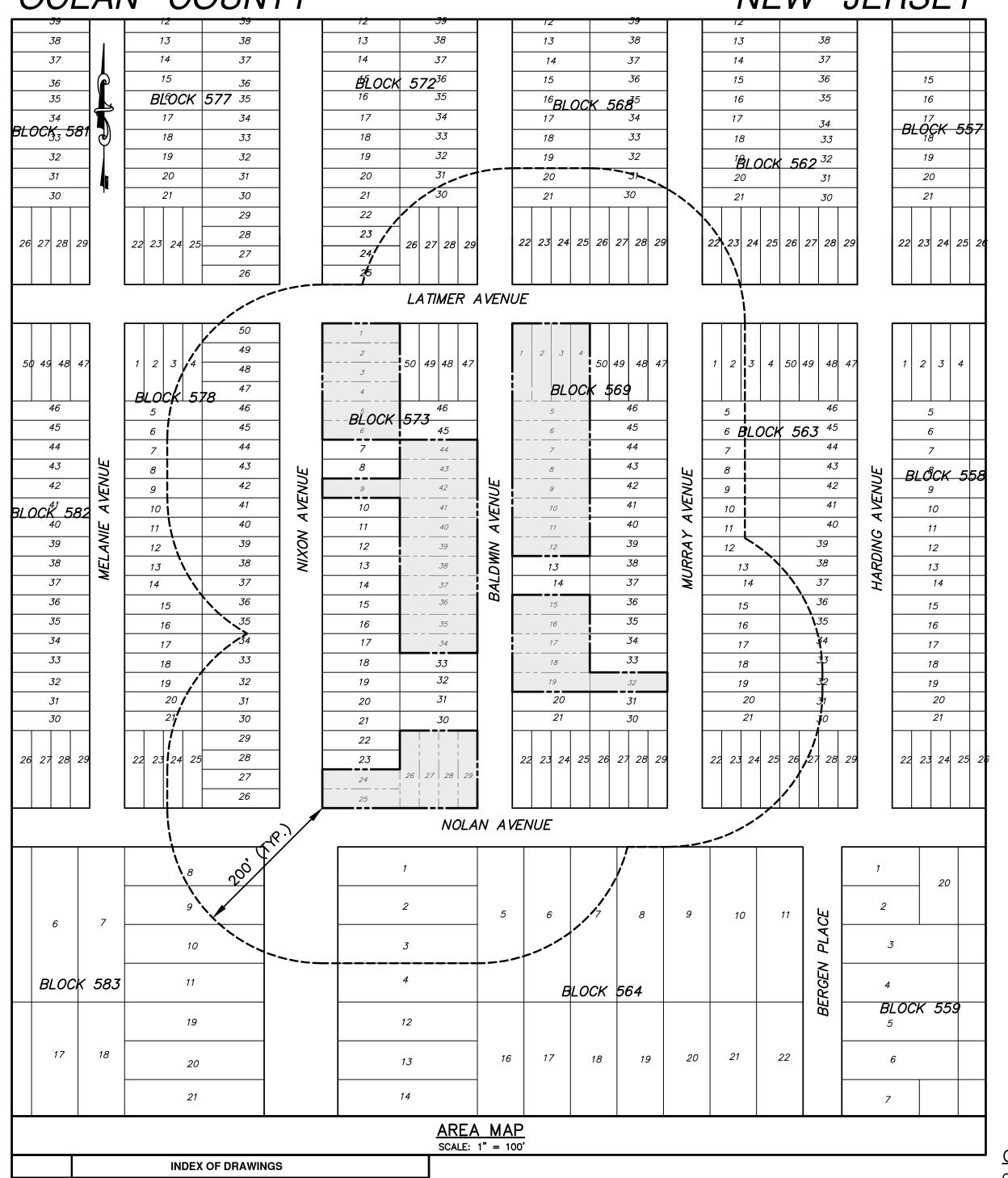
SUPPLEMENTAL DRAWINGS

ROADWAY IMPROVEMENT PLAN *FOR*

PINEWALD ESTATES

BLOCK 569 - LOTS 1-12, 15-19, AND 32 BLOCK 573 - LOTS 9, 24-29, AND 34-44 **TOWNSHIP** BERKELEY

OCEAN COUNTY NEW JERSEY



OWNERSHIP OF DOCUMENTS

3/12/10

THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN,

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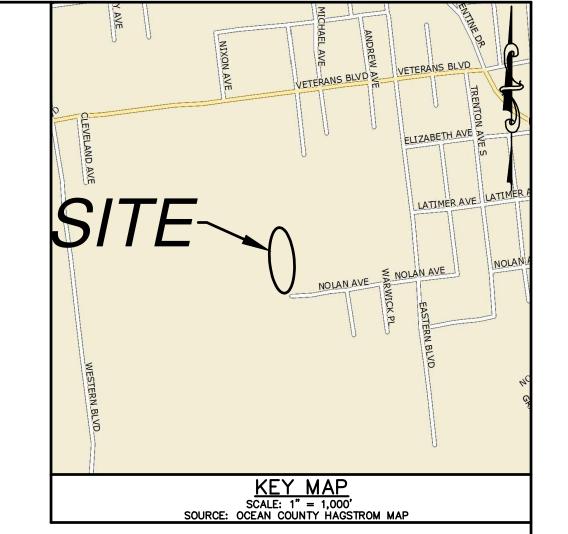
PROFESSIONAL DESIGN SERVICES, L.L.C., AND IS NOT TO BE USED IN

WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN

AUTHORIZATION OF PROFESSIONAL DESIGN SERVICES, L.L.C.

2/21/14 REVISED FOR RESOLUTION COMPLIANCE

REVISED FOR RESOLUTION COMPLIANCE



GENERAL NOTES

- 1. IT IS PROPOSED TO IMPROVE NOLAN AVENUE FROM HARDING AVENUE TO BALDWIN AVENUE. THE ROADS WILL BE DESIGNED TO THE RESIDENTIAL SITE IMPROVEMENT STANDARDS. THE PURPOSE OF THE ROAD IMPROVEMENTS ARE TO PROVIDE ACCESS TO PROPOSED RESIDENTIAL LOTS. CURB AND SIDEWALKS ARE PROPOSED ONLY ON BALDWIN AVENUE.
- 2. THE PROPERTY AND TOPOGRAPHIC INFORMATION IS SHOWN PURSUANT TO A SURVEY ENTITLED, "BOUNDARY & TOPOGRAPHIC SURVEY OF TAX BLOCKS 546, TAX LOTS 20-25, TAX BLOCK 547, TAX LOTS 1-12, 26-36, 39-46, 49 & 50, TAX BLOCK 550, TAX LOTS 20-25, TAX BLOCK 551, TAX LOTS 1-12, 16-19, 32-34, 38-50, TAX BLOCK 557, TAX LOTS 15-42, 45-50, TAX BLOCK 562, TAX LOTS 1-6, 11-15, 18-38, TAX BLOCK 567, TAX LOTS 20-31, TAX BLOCK 568, TAX LOTS 1-6, 11-29, 36-41, 45-50, TAX BLOCK 571, TAX LOTS 20-31, TAX BLOCK 572, TAX LOTS 1-50, REFERENCE TAX MAP SHEET No.'S 53, 54, 57 & 58, TOWNSHIP OF BERKELEY, OCEAN COUNTY, NEW JERSEY", PREPARED BY PROPERTY DEVELOPMENT SURVEYING, LLC., ON 2/14/04.
- ALL UTILITIES (ELECTRIC, TELEPHONE, ETC.) TO BE PROVIDED UNDERGROUND. THE CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO
- 4. ALL DISTURBED AREAS WILL BE VEGETATIVELY STABILIZED IN ACCORDANCE WITH THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN UPON COMPLETION OF THE GRADING ACTIVITIES.
- 5. ALL TRAFFIC CONTROL SIGNAGE INCLUDING PAVEMENT MARKINGS WILL BE PROVIDED IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- 6. 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). PROPERTY DEVELOPMENT SERVICES, INC., ASSUMES NO RESPONSIBILITY FOR CONSTRUCTION SITE SAFETY.
- 7. STREET LIGHTING ALONG THE ROADWAYS WILL BE PROVIDED BY JERSEY CENTRAL POWER AND LIGHT IN ACCORDANCE WITH THE BERKELEY TOWNSHIP ORDINANCE 98-48-0AB (SECTION 35-76). THE DEVELOPER SHALL BE RESPONSIBLE FOR THE FULL COST OF THE INITIAL INSTALLATION OF THE STREET LIGHTS.
- 8. DRIVEWAY APRONS TO BE CONSTRUCTED FOR EACH LOT PURSUANT TO SECTION 35-67.4 OF THE BERKELEY TOWNSHIP CODE.
- 9. DATUM IS IN N.G.V.D. 1929. TO CONVERT TO N.G.V.D. 1988, A CONVERSION FACTOR OF -1.22' MUST BE APPLIED.
- 10. OCEAN INC., WILL BE RESPONSIBLE FOR THE OWNERSHIP AND MAINTENANCE OF THE TEMPORARY STORMWATER BASIN.
- 11. THERE WILL BE NO PHASING ASSOCIATED WITH THIS PROJECT.
- 12. A TREE REMOVAL PLAN MUST BE SUBMITTED AND APPROVED BY BERKELEY TOWNSHIP PRIOR TO THE ISSUANCE OF A BUILDING PERMIT. CLEARING MAY NOT EXCEED 50% OF THE SIDE AND REAR YARD SETBACKS. THIS ITEM CAN BE CLARIFIED ON THE PLOT PLAN.
- 13. INDIVIDUAL GRADING PLANS ARE REQUIRED PRIOR TO THE ISSUANCE OF BUILDING PERMITS.
- 14. WATER AND SEWER SERVICES SHALL BE COORDINATED THROUGH THE APPROPRIATE UTILITY AUTHORITY.
- 15. ALL PROPOSED DWELLINGS SHALL HAVE A ROOF RECHARGE SYSTEM CONSTRUCTED IN ACCORDANCE WITH THE DETAIL.
- 16. THE MINIMUM SLOPE OF THE YARD SURFACE SHALL BE TWO PERCENT AWAY FROM THE PROPOSED BUILDING TOWARDS THE LOTS PROPERTY LINES. THE MAXIMUM GRADE FOR LAWNS AND DISTURBED AREAS WITHIN FIVE FEET OF A BUILDING SHALL BE 10%, AND FOR LAWNS MORE THAN FIVE FEET FROM A BUILDING, IT SHALL BE 25%, EXCEPT FOR THE DRIVEWAYS WHERE THE MAXIMUM GRADE SHALL BE 10%.
- 17. UPON COMPLETION OF THE INFILTRATION SYSTEM, THE APPLICANT'S ENGINEER SHALL CERTIFY IN WRITING TO THE TOWNSHIP ENGINEER THAT THE SYSTEM WAS CONSTRUCTED IN ACCORDANCE WITH THE DESIGN PLANS APPROVED BY THE BOARD. ASBUILT PERMEABILITY TEST RESULTS SHALL BE SUBMITTED TO THE TOWNSHIP ENGINEER PRIOR TO THE RELEASE OF PERFORMANCE GUARANTEES.
- 18. IN ACCORDANCE WITH BERKELEY TOWNSHIP ORDINANCE SECTION 12-2.5, THE ENTITY RESPONSIBLE FOR MAINTENANCE OF A STORMWATER MANAGEMENT FACILITY SHALL BE RESPONSIBLE FOR SUBMITTING TO THE PRINCIPAL PUBLIC WORKS MANAGER A SUMMARY OF MAINTENANCE WORK PERFORMED DURING THE REPORTING PERIOD. THIS SUMMARY SHALL BE SUBMITTED ONCE EVERY CALENDAR YEAR BY FEBRUARY 15 OF THE YEAR FOLLOWING THE REPORTING PERIOD.

OWNER / APPLICANT: 40 WASHINGTON STREET

TOMS RIVER NJ 08753

MCS

PROFESSIONAL DESIGN SERVICES. L.L.C INSULTING ENGINEERS, PLANNERS, ENVIRONMENTAL SCIENT 1245 AIRPORT ROAD, SUITE 1, LAKEWOOD, NEW JERSEY 0870 PHONE 732 363 0060 FAX 732 363 0073 ENGINEERING @ PDSDOVER.COM NEW JERSEY STATE BOARD OF P.E. & L.S. CERTIFICATENOF AUTHORIZATION, NO. 24GA28125400

ROADWAY IMPROVEMENT PLANS COVER SHEET

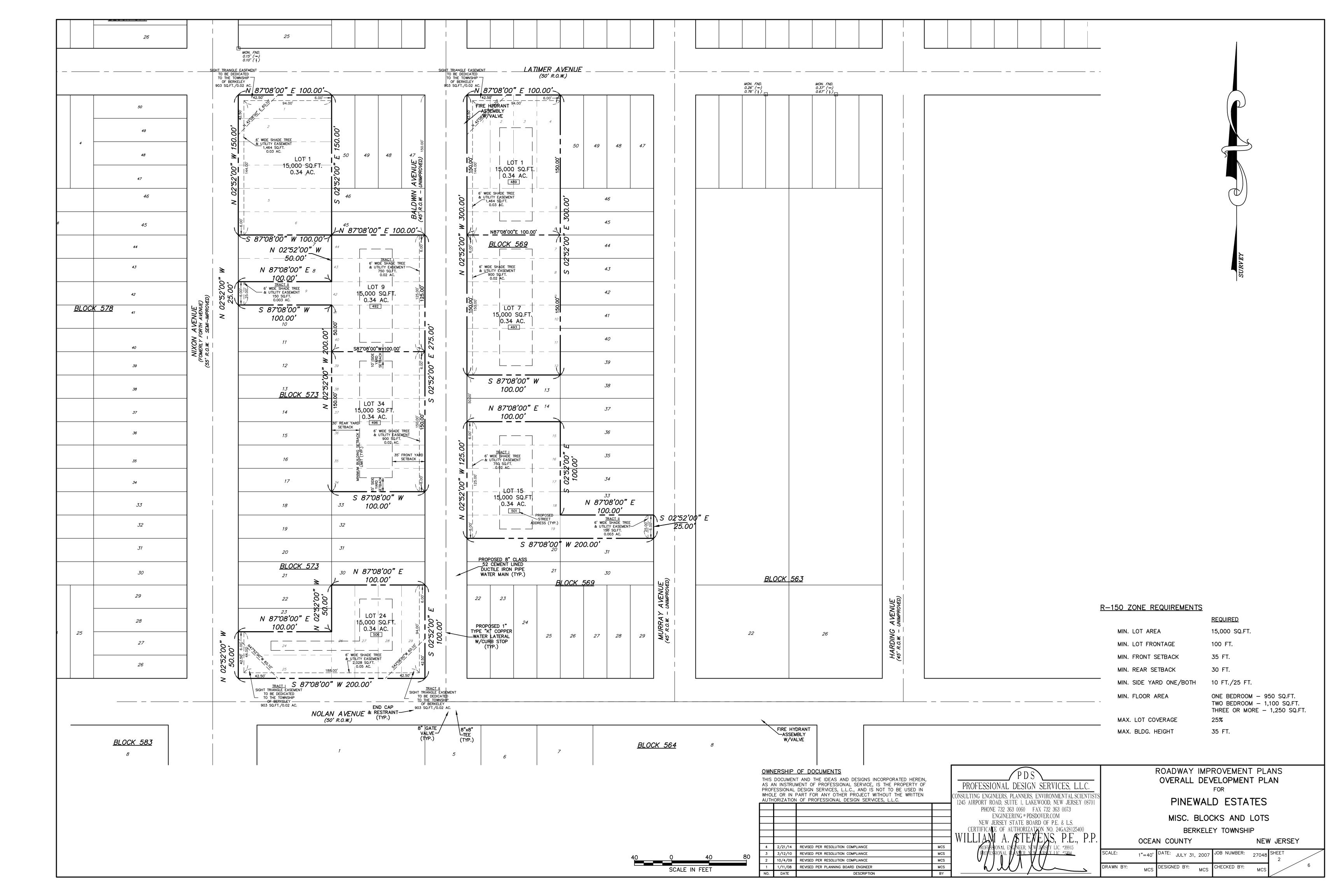
PINEWALD ESTATES

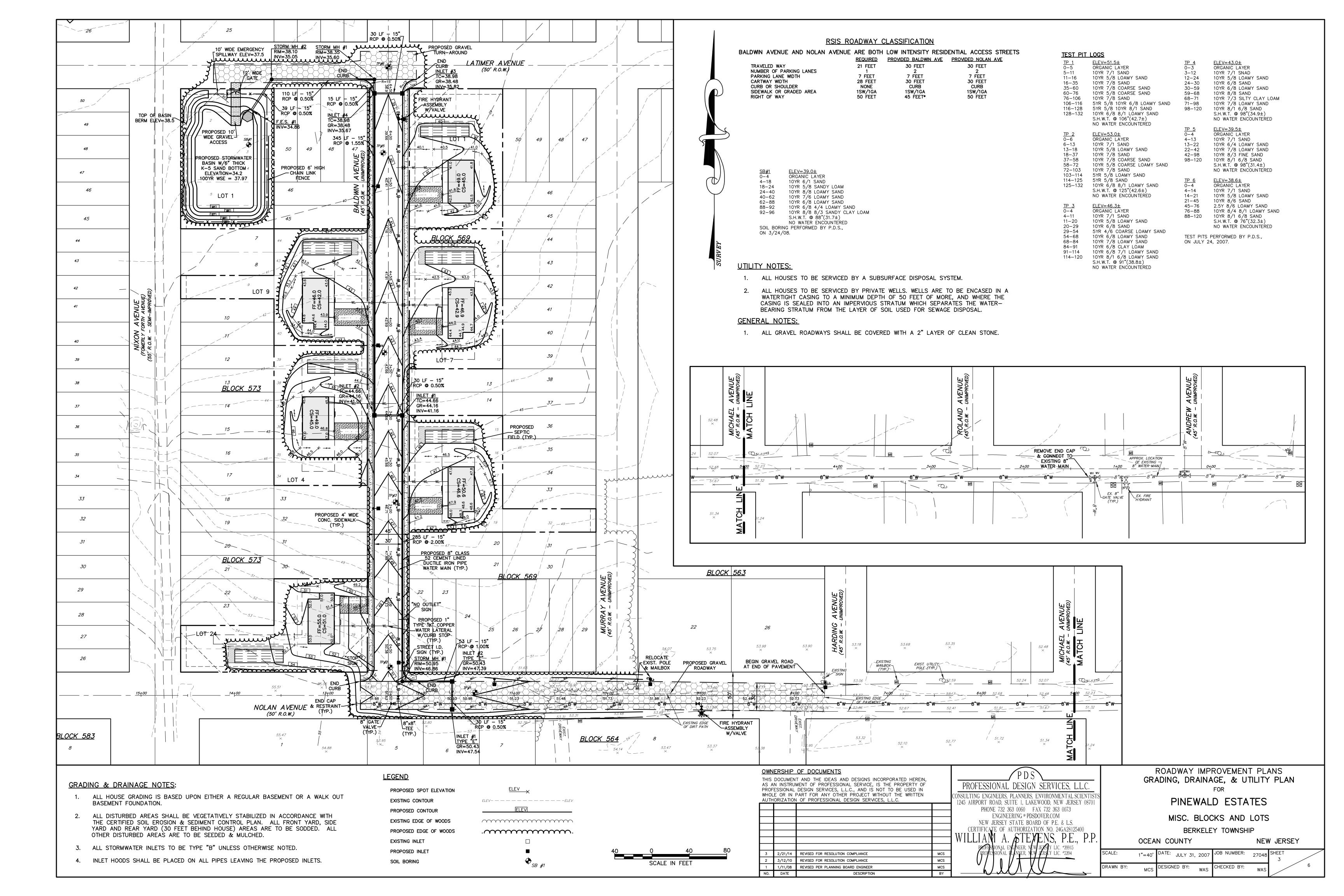
MISC. BLOCKS AND LOTS BERKELEY TOWNSHIP

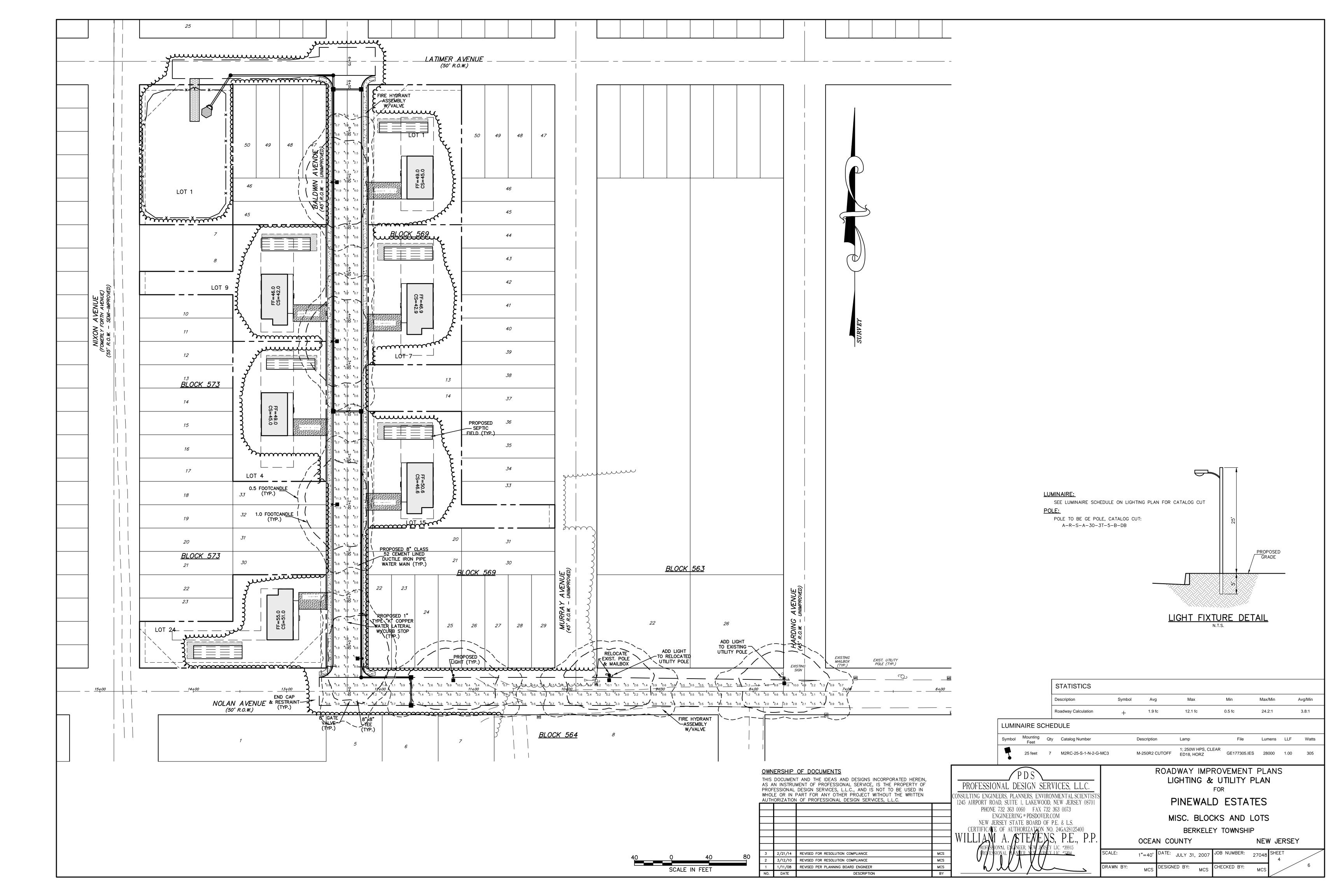
OCEAN COUNTY

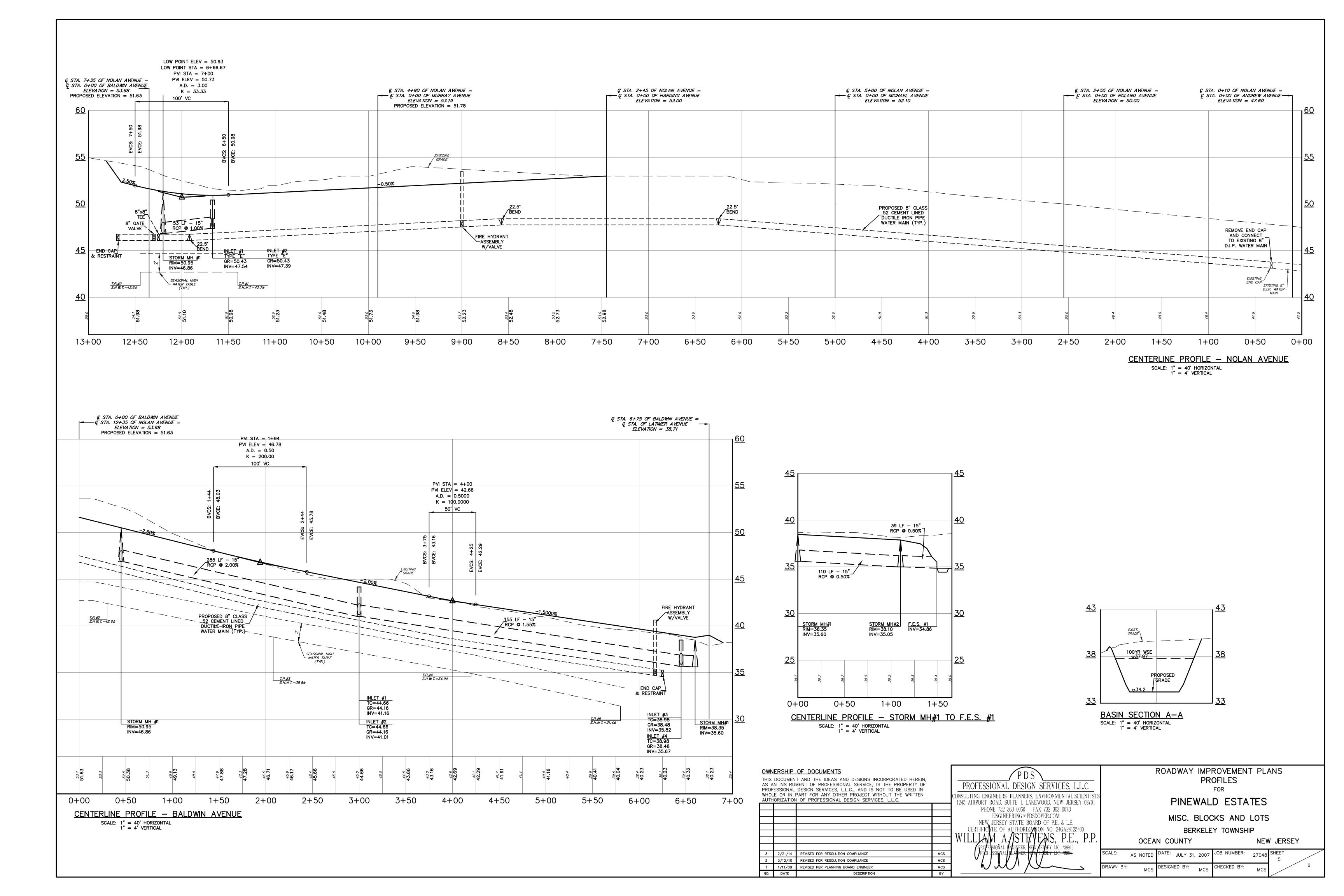
NEW JERSEY

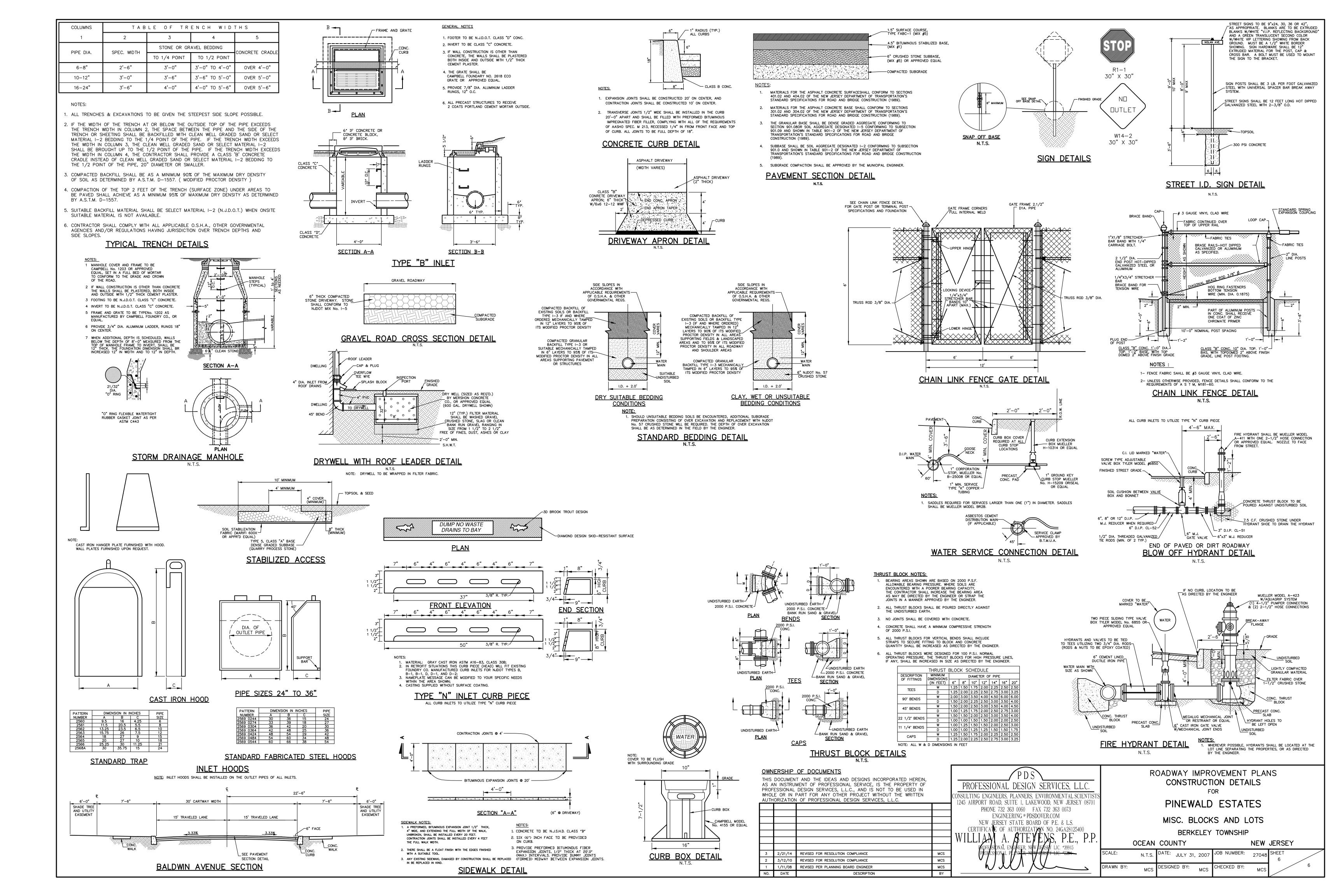
JOB NUMBER:)ATE: JULY 31, 2007 DESIGNED BY: CHECKED BY:

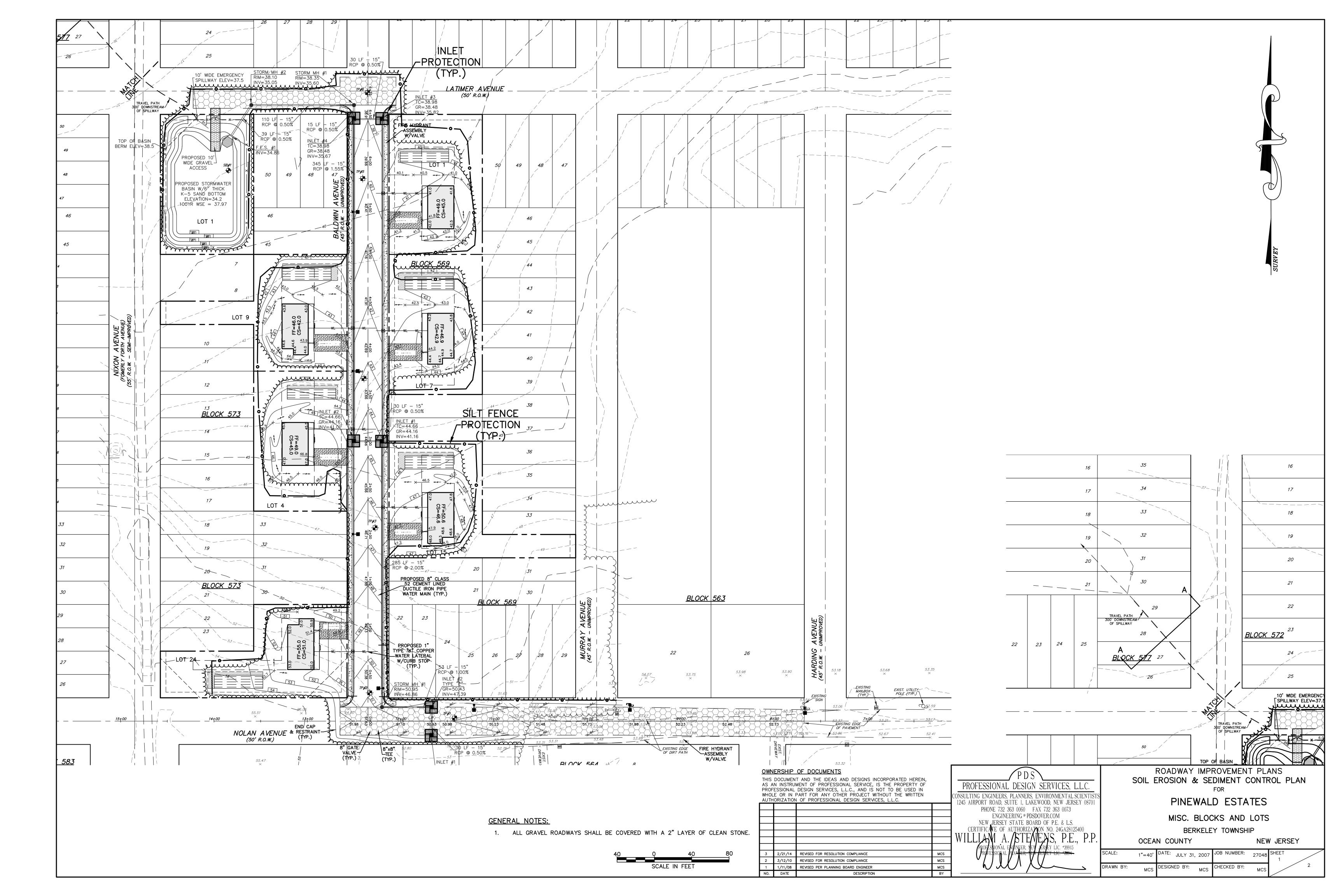


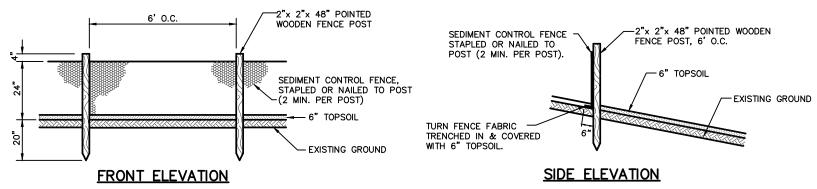




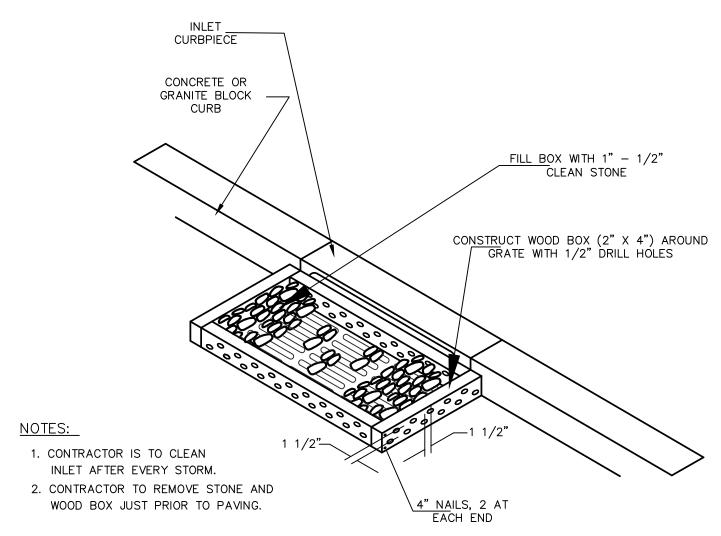




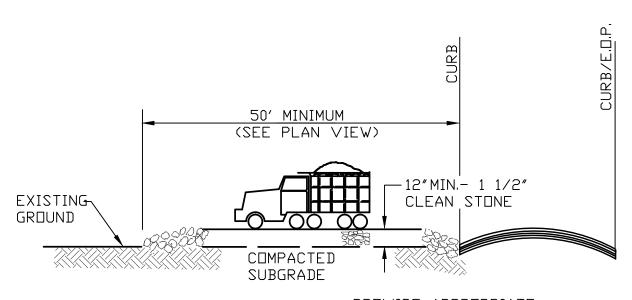




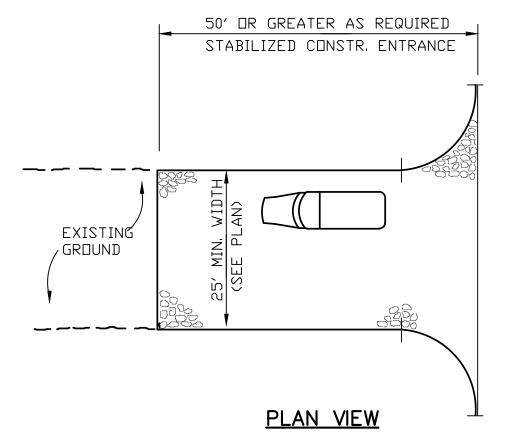
TEMPORARY SILTATION CONTROL FENCE



INLET PROTECTION



PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED CONSTRUCTION ENTRANCE AND PUBLIC R.O.W.



BY MERSHON CONCRETE OR APPROVED EQUA 600 GAL. DRYWELL SHOWN) 12" (TYP.) FILTER MATERIAL SHALL BE WASHED GRAVEL CRUSHED STONE, SLAG OR CLEAN BANK RUN GRAVEL RANGING IN SIZE FROM 1 1/2" TO 2 1/2"
FREE OF FINES, DUST, ASHES OR CLAY

DRYWELL WITH ROOF LEADER DETAIL NOTE: DRYWELL TO BE WRAPPED IN FILTER FABRIC.

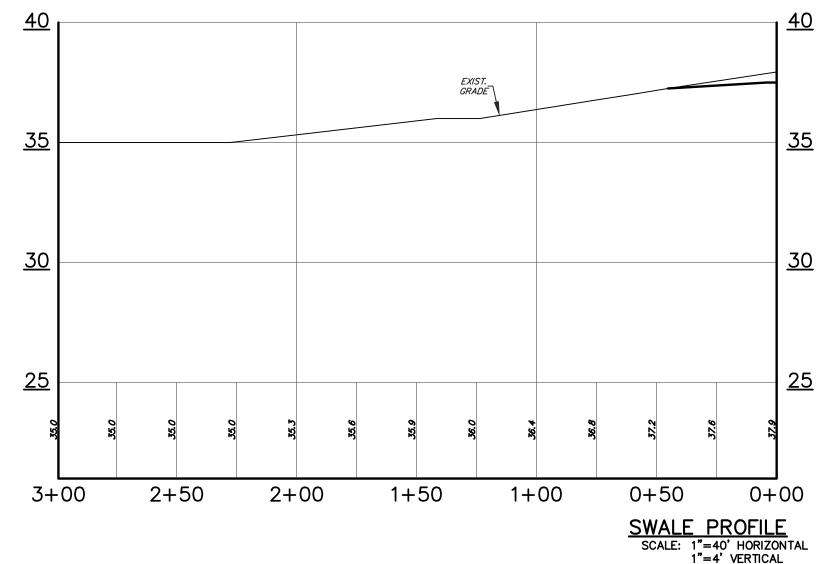
SEEDING SCHEDULE

- 1. TEMPORARY SEEDING SHALL CONSIST OF SPRING OATS APPLIED AT A RATE OF 2.0 LBS. PER 1,000 S.F. OR GRAIN RYE APPLIED AT A RATE OF 2.4 LBS. PER 1,000 S.F. TEMPORARY SEEDING SHALL BE MULCHED AND MAINTAINED UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED WITH PERMANENT SEEDING.
- 2. PERMANENT SEEDING SHALL CONSIST OF THE FOLLOWING MIXTURE OR APPROVED EQUAL - OPTIMUM SEEDING DATES ARE BETWEEN APRIL 15 AND NOVEMBER 1:

KENTUCKY 31 TALL FESCUE @ 2.0#/1000 S.F. CHEWINGS FESCUE @ 1.0#/1000 S.F. CREEPING RED FESCUE @ 1.0#/1000 S.F. PERENNIAL RYEGRASS @ 0.5#/1000 S.f.

- 3. PERMANENT SEEDING TO BE APPLIED BY RAKING OR DRILLING INTO THE SOILS AT A RATE 150#/ACRE, SLOPED AREA TO BE COVERED WITH MULCH AS INDICATED IN NOTE 6.
- 4. FERTILIZER FOR THE ESTABLISHMENT OF TEMPORARY AND PERMANENT VEGETATIVE COVER SHALL BE 10-20-20 APPLIED AT A RATE OF 14#/1000 S.F. OR AS DETERMINED BY SOIL TEST. LIMESTONE FOR TEMPORARY SEEDING SHALL BE APPLIED AT A RATE OF 90#/1000 S.F. LIMESTONE FOR PERMANENT SEEDING SHALL BE APPLIED AT A RATE OF 135#/1000 S.F.
- 5. IF SEASON PREVENTS THE ESTABLISHMENT TO TEMPORARY OR PERMANENT SEEDING, EXPOSED AREA TO BE STABILIZED WITH MULCH AS INDICATED IN NOTE 6.
- 6. MULCH TO CONSIST OF SMALL GRAIN STRAW OR SALT HAY ANCHORED WITH WOOD AND FIBER MULCH BINDER OR AN APPROVED EQUAL. MULCH WILL BE SPREAD AT RATES OF 90 TO 115 LBS. PER 1000 S.F. AND ANCHORED WITH MULCHED ANCHORING TOOL OR LIQUID

MULCH BINDER, AND SHALL BE PROVIDED ON ALL SEEDING.



-40 -20

SECTION A-A

SCALE: 1"=40' HORIZONTAL

1"=4' VERTICAL

1"=4' VERTICAL

		`	APPRUXIMATE I
	1.	INSTALLATION OF SEDIMENT FABRIC PRIOR TO ANY LAND DISTURBANCE.	14 DAYS
	2.	APPLICATION OF PROPER MEASURES FOR THE CONTROL OF SOIL EROSION AND SEDIMENT CONTROL INCLUDIN THE STAKING OF HAY BALE SEDIMENT BARRIER WHERE SHOWN ON THE PLANS.	IG 30 DAYS
	3.	CONSTRUCT VEHICLE WHEEL-CLEANING BLANKET WHERE CONSTRUCTION TRAFFIC ENTERS PAVED ROADWAYS	7 DAYS
	4.	SITE GRADING, CLEARING SITE, SUBGRADE ROAD AND PARKING AREAS AS SHOWN ON THE GRADING PLANS WITH APPROPRIATE EROSION CONTROL FACILITIES.	90 DAYS
	5.	PROVIDE AND INSTALL TEMPORARY STABILIZATION MEASURES AS REQUIRED.	30 DAYS
	6.	CONSTRUCTION OF VARIOUS DRAINAGE FACILITIES, DETENTION BASIN AND INSTALLATION OF EROSION CONTROL MEASURES FOR DRAINAGE STRUCTURES.	60 DAYS
	7.	INSTALLATION OF CONCRETE CURB AND SUB-BASE COURSE AS PER PLAN.	30 DAYS
	8.	MAINTENANCE OF SOIL EROSION AND SEDIMENT CONTROL.	10 DAYS
	9.	REGRADING AND STABILIZATION OF LAWN AND BERM AREAS.	30 DAYS
1	10.	REMOVAL OF SOIL EROSION AND SEDIMENT CONTROL FACILITIES WHEN PERMANENT EROSION CONTROL MEASURES ARE ACCEPTED BY THE TOWNSHIP ENGINEER.	10 DAYS
		BUILDING CONSTRUCTION TO TAKE PLACE BETWEEN ITEMS #4 & #10.	

THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, PROFESSIONAL DESIGN SERVICES, L.L.C. WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN INSULTING ENGINEERS, PLANNERS, ENVIRONMENTAL SCIENT AUTHORIZATION OF PROFESSIONAL DESIGN SERVICES, L.L.C. 1245 AIRPORT ROAD, SUITE 1, LAKEWOOD, NEW JERSEY 0870 PHONE 732 363 0060 FAX 732 363 0073 ENGINEERING @ PDSDOVER.COM NEW JERSEY STATE BOARD OF P.E. & L.S. CERTIFICATENOF AUTHORIZATION, NO. 24GA28125400

MCS

2. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 30 DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHED OF A TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.

SOIL EROSION AND SEDIMENT CONTROL NOTES

1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES TO BE INSTALLED

AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.

PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE,

- 3. PERMANENT VEGETATION TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN THE (10) DAYS AFTER FINAL GRADING. MULCH TO BE USED AS NECESSARY FOR PROTECTION UNTIL SEEDING ESTABLISHED.
- 4. ALL WORK TO BE DONE IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.
- 5. A SUBBASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS IN ORDER TO STABILIZE ROADWAY AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUBBASE SHALL BE INSTALLED WITHIN 15 DAYS OF THE PRELIMINARY
- 6. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E. STEEP SLOPES) WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.
- 7. ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION PROCEEDS (I.E., SLOPES GREATER THAN 3:1)
- 8. TRAFFIC CONTROL STANDARDS REQUIRE THE INSTALLATION OF A 25'X50'X12"THICK PAD OF 1 1/2" STONE TO 2 1/2", AT ALL CONSTRUCTION DRIVEWAYS, IMMEDIATELY AFTER INITIAL SITE DISTURBANCE.
- 9. IN ACCORDANCE WITH THE STANDARD FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION, ANY SOIL HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL BE COVERED WITH A MINIMUM OF 12 INCHES OF SOIL HAVING A PH OF 5 OR MORE PRIOR TO SEEDBED PREPARATION.
- 10. ALL SEED MUST BE RAKED OR DRILLING INTO THE SOIL. ALL SEEDED AREAS MUST BE MULCHED AS PER NOTE 6.
- 11. THE OCEAN COUNTY SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF ANY LAND DISTURBANCE ACTIVITY.
- 12. AT THE TIME WHEN THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER, SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER.
- IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATIONS WILL HAVE TO BE EMPLOYED.
- 13. IN THE N.J.S.A. 4:24-39 <u>ET SEQ.</u> REQUIRES THAT NO CERTIFICATES OF OCCUPANCY BE ISSUED BEFORE THE PROVISIONS OF THE CERTIFIED PLAN FOR SOIL EROSION AND SEDIMENT CONTROL HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES, ALL SITE WORK FOR SITE PLANS WILL HAVE TO BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.
- 14. ALL STEEP SLOPES WILL BE TEMPORARILY STABILIZED UPON ESTABLISHMENT OFF ROUGH GRADE AND JUTE MATTING WILL BE USED ON ALL STEEP SLOPES TO AID IN ESTABLISHING PERMANENT VEGETATION.
- 15. DUST CONTROL SHALL CONSIST OF CALCIUM CHLORIDE ON ALL ROADWAYS AND A COMBINATION OF MULCH AND VEGETATIVE COVER ON ALL REMAINING AREAS AS NEEDED.
- 16. RESIDENTIAL DEVELOPMENT CONTROL MEASURES TO APPLY TO DWELLING CONSTRUCTION ON INDIVIDUAL LOTS AND NOTATION THAT SUCH CONTROL MEASURES WILL APPLY TO SUBSEQUENT OWNERS IF TITLE IS CONVEYED.
- 17. ALL PERMANENT SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED BY THE TOWNSHIP, AND SHALL BECOME THEIR RESPONSIBILITY.
- 18. PAVEMENT AREAS ARE TO BE KEPT CLEAN AT ALL TIMES.
- 19. DURING CONSTRUCTION, ANY ADDITIONAL CONTROL MEASURES AS DEEMED NECESSARY TO PREVENT EROSION OR CONTROL SEDIMENT BEYOND THOSE MEASURES SHOWN ON THE APPROVED PLAN SHALL BE INSTALLED OR EMPLOYED AT THE DIRECTION OF THE ENGINEER OR DISTRICT
- 20. CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.
- 21. ANY CHANGES TO BE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLANS WILL REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO THE DISTRICT FOR RE-CERTIFICATION. THE REVISED PLANS MUST MEET ALL CURRENT STATE SOIL EROSION AND SEDIMENT CONTROL STANDARDS.
- 22. ADDITIONAL STABILIZATION MEASURES MAY BE REQUIRED AS DIRECTED BY THE SOIL CONSERVATION DISTRICT IF RUNOFF FROM ROOF DOWNSPOUTS CREATE EROSION ON ADJACENT SLOPES.
- 23. ADDITIONAL STABILIZATION MEASURES WILL BE REQUIRED IF EROSION OCCURS ALONG THE EDGES OF THE DRIVEWAYS.
- 24. THE DETENTION BASIN SHALL BE CONSTRUCTED AND PERMANENTLY STABILIZED
- BEFORE RUNOFF IS ALLOWED TO ENTER THE DRAINAGE SYSTEM.
- 25. ROOF RECHARGE SYSTEMS ARE REQUIRED ON EACH LOT.
- 26. INDIVIDUAL LOT ENTRANCES AND EGRESS POINTS AFTER INTERNAL ROADS ARE PAVED, MAY REQUIRE A CONSTRUCTION ACCESS OF 1" TO 2" STONE.
- 27. DURING CONSTRUCTION, THE DEVELOPER WILL BE RESPONSIBLE FOR BASIN MAINTENANCE AND THE TOWNSHIP WILL BE RESPONSIBLE FOR BASIN MAINTENANCE AFTER CONSTRUCTION IS COMPLETED.
- 28. INDIVIDUAL LOT ENTRANCE & EGRESS POINTS AFTER INTERIOR ROADS ARE PAVED, MAY REQUIRE A CONSTRUCTION ACCESS OF 1" TO 2" STONE.
- 29. ROOF RECHARGE SYSTEMS ARE REQUIRED AT EACH LOT.
- 30. THE TOWNSHIP OF BERKELEY WILL BE RESPONSIBLE FOR THE MAINTENANCE OF THE BASIN AFTER CONSTRUCTION.
- 31. THE DEVELOPER WILL BE RESPONSIBLE FOR THE MAINTENANCE OF THE BASIN DURING

ROADWAY IMPROVEMENT PLANS SOIL EROSION CONSTRUCTION DETAILS FOR

PINEWALD ESTATES

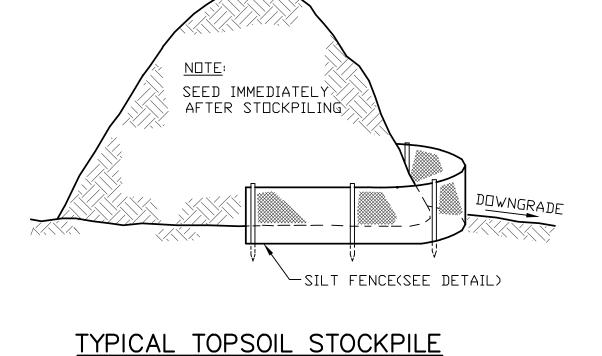
MISC. BLOCKS AND LOTS

BERKELEY TOWNSHIP

OCEAN COUNTY

NEW JERSEY

JOB NUMBER: 27048 SHEET JULY 31, 2007 DRAWN BY: DESIGNED BY: CHECKED BY:



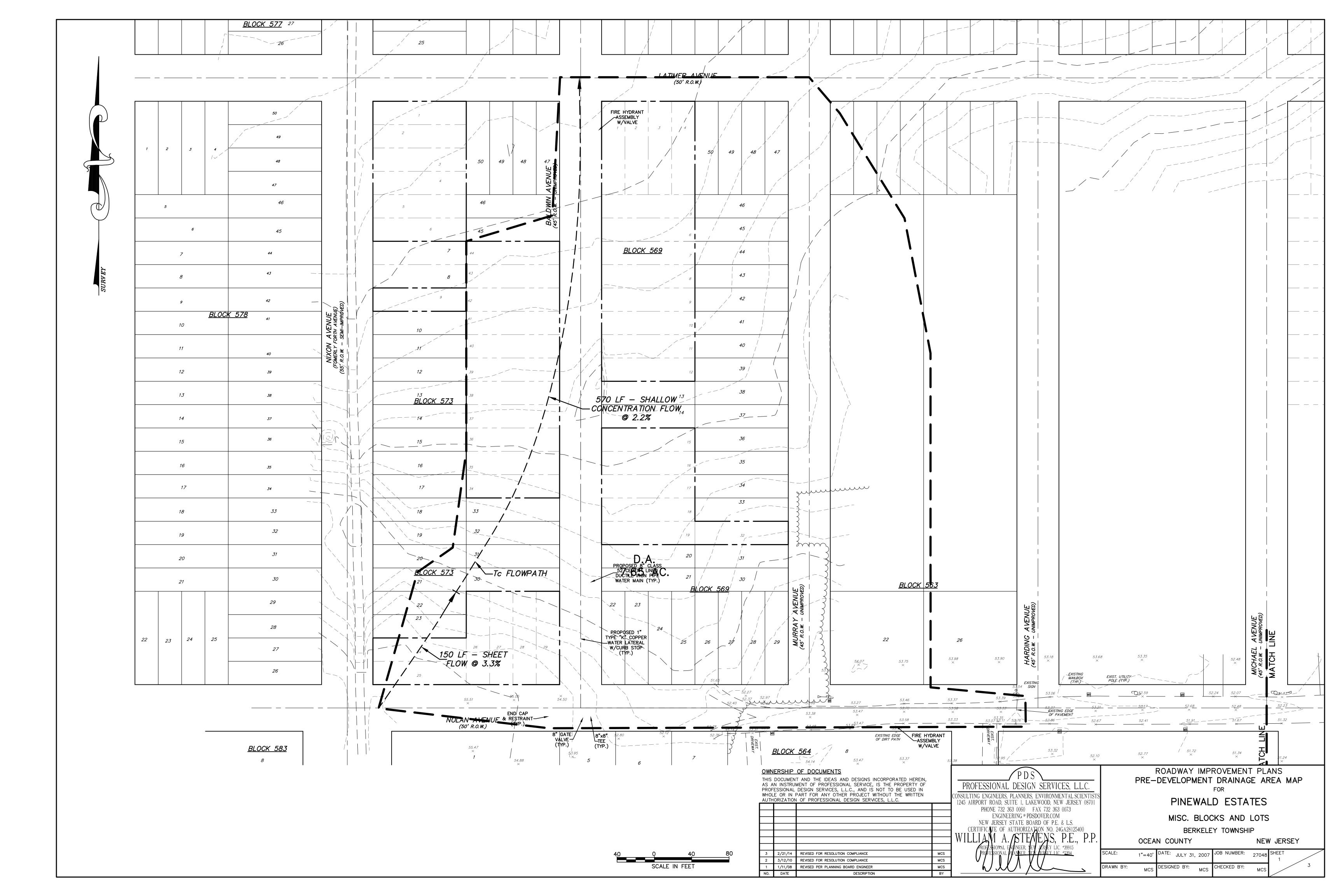
SEQUENCE OF CONSTRUCTION (PER SECTION):

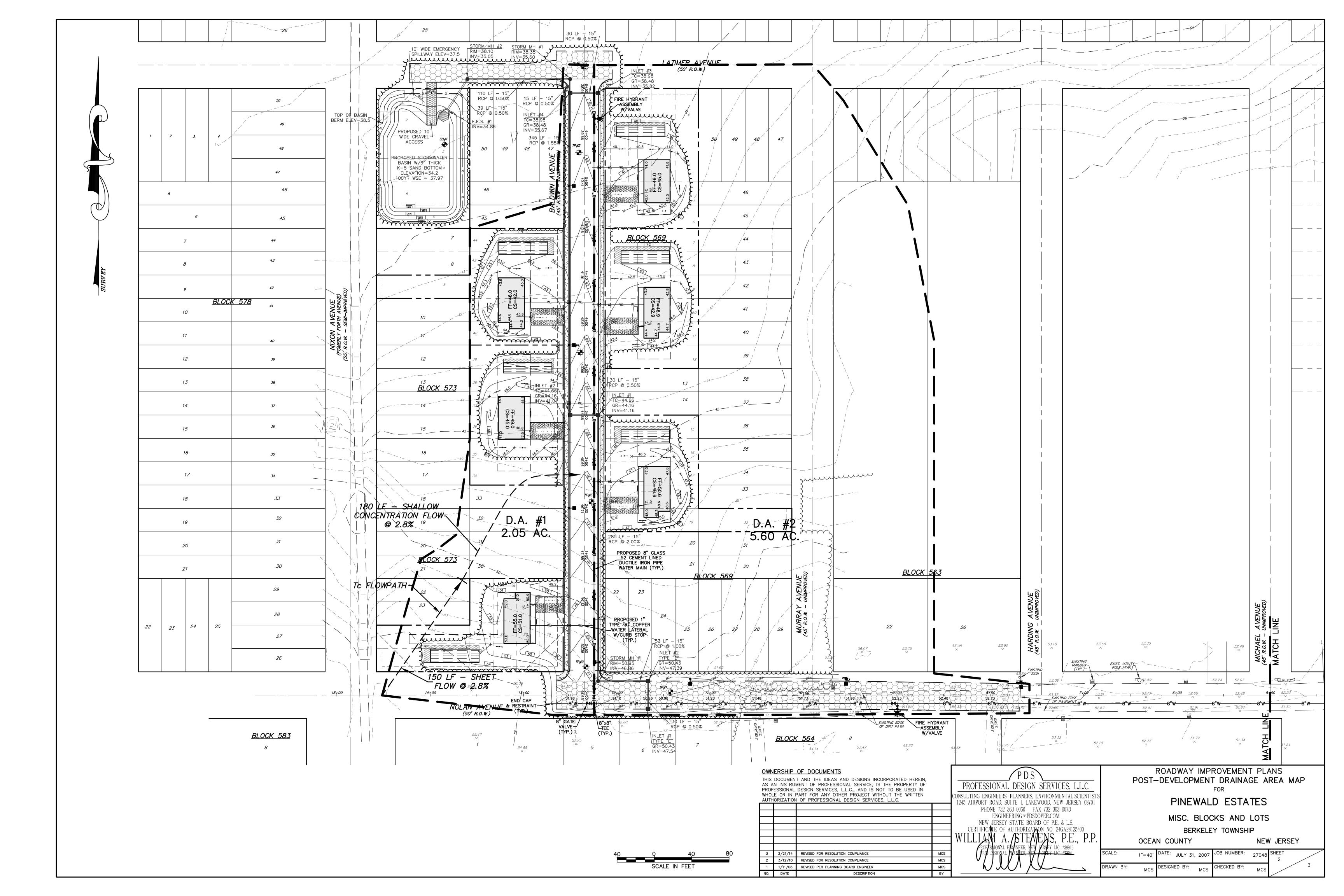
OWNERSHIP OF DOCUMENTS AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF PROFESSIONAL DESIGN SERVICES, L.L.C., AND IS NOT TO BE USED IN

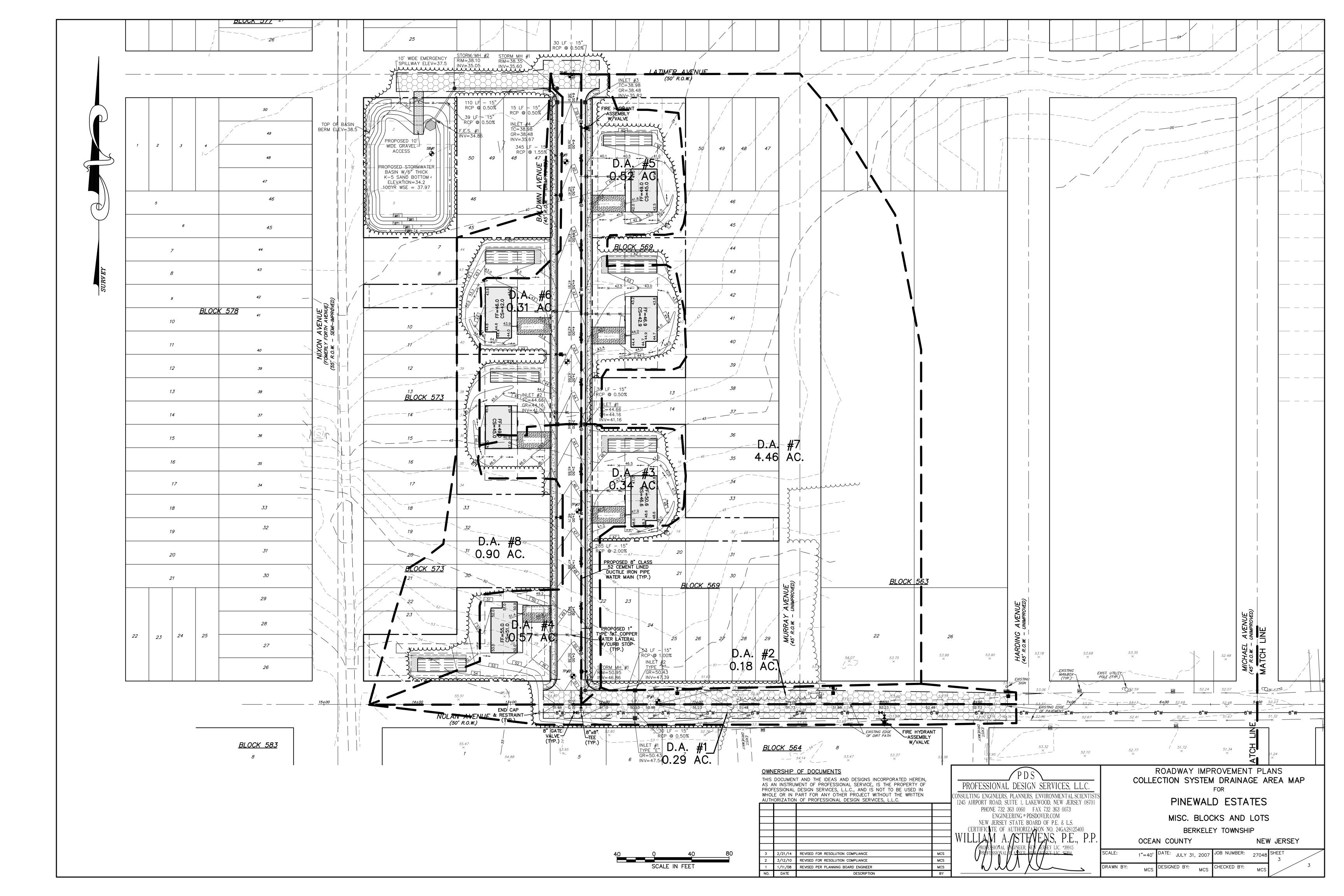
2/21/14 REVISED FOR RESOLUTION COMPLIANCE REVISED FOR RESOLUTION COMPLIANCE REVISED PER PLANNING BOARD ENGINEER

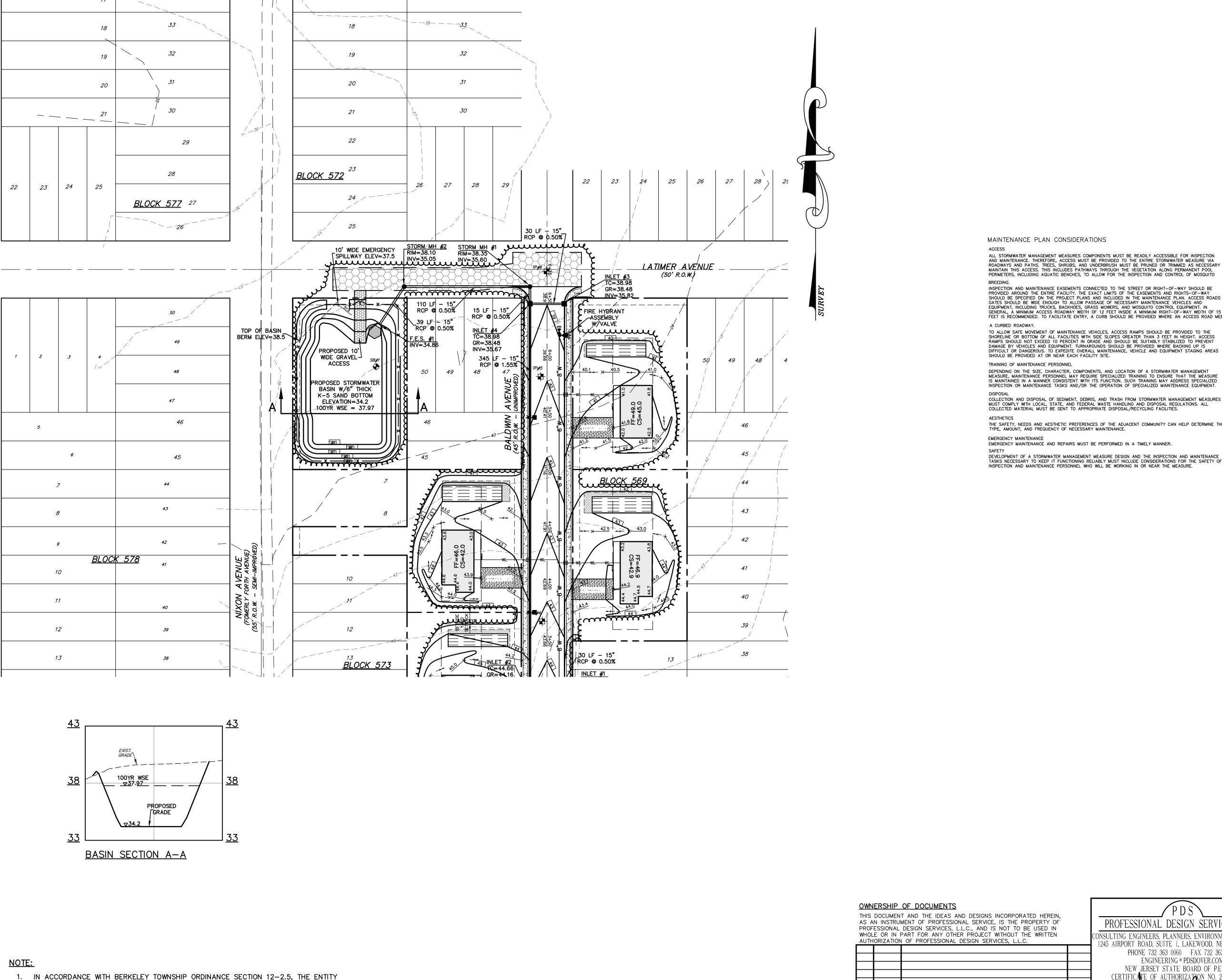
NO. DATE

TEMPORARY STABILIZED CONSTRUCTION ENTRANCE









RESPONSIBLE FOR MAINTENANCE OF A STORMWATER MANAGEMENT FACILITY SHALL BE

SUBMITTED ONCE EVERY CALENDAR YEAR BY FEBRUARY 15 OF THE YEAR FOLLOWING

THE REPORTING PERIOD.

RESPONSIBLE FOR SUBMITTING TO THE PRINCIPAL PUBLIC WORKS MANAGER A SUMMARY OF MAINTENANCE WORK PERFORMED DURING THE REPORTING PERIOD. THIS SUMMARY SHALL BE

ALL STORMWATER MANAGEMENT MEASURES COMPONENTS MUST BE READILY ACCESSIBLE FOR INSPECTION AND MAINTENANCE. THEREFORE, ACCESS MUST BE PROVIDED TO THE ENTIRE STORMWATER MEASURE VIA ROADWAYS AND PATHS. TREES, SHRUBS, AND UNDERBRUSH MUST BE PRUNED OR TRIMMED AS NECESSARY TO MAINTAIN THIS ACCESS. THIS INCLUDES PATHWAYS THROUGH THE VEGETATION ALONG PERMANENT POOL PERIMETERS, INCLUDING AQUATIC BENCHES, TO ALLOW FOR THE INSPECTION AND CONTROL OF MOSQUITO

INSPECTION AND MAINTENANCE EASEMENTS CONNECTED TO THE STREET OR RIGHT-OF-WAY SHOULD BE PROVIDED AROUND THE ENTIRE FACILITY. THE EXACT LIMITS OF THE EASEMENTS AND RIGHTS-OF-WAY SHOULD BE SPECIFIED ON THE PROJECT PLANS AND INCLUDED IN THE MAINTENANCE PLAN. ACCESS ROADS AND GATES SHOULD BE WIDE ENOUGH TO ALLOW PASSAGE OF NECESSARY MAINTENANCE VEHICLES AND FOLIPMENT, INCLUDING TRUCKS, BACKHOES, GRASS MOWERS, AND MOSQUITO CONTROL EQUIPMENT, IN GENERAL, A MINIMUM ACCESS ROADWAY WIDTH OF 12 FEET INSIDE A MINIMUM RIGHT-OF-WAY WIDTH OF 15 FEET IS RECOMMENDED. TO FACILITATE ENTRY, A CURB SHOULD BE PROVIDED WHERE AN ACCESS ROAD MEETS

TO ALLOW SAFE MOVEMENT OF MAINTENANCE VEHICLES, ACCESS RAMPS SHOULD BE PROVIDED TO THE SHORELINE OR BOTTOM OF ALL FACILITIES WITH SIDE SLOPES GREATER THAN 3 FEET IN HEIGHT. ACCESS RAMPS SHOULD NOT EXCEED 10 PERCENT IN GRADE AND SHOULD BE SUITABLY STABILIZED TO PREVENT DAMAGE BY VEHICLES AND EQUIPMENT. TURNAROUNDS SHOULD BE PROVIDED WHERE BACKING UP IS DIFFICULT OR DANGEROUS. TO EXPEDITE OVERALL MAINTENANCE, VEHICLE AND EQUIPMENT STAGING AREAS SHOULD BE PROVIDED AT OR NEAR EACH FACILITY SITE.

DEPENDING ON THE SIZE, CHARACTER, COMPONENTS, AND LOCATION OF A STORMWATER MANAGEMENT MEASURE, MAINTENANCE PERSONNEL MAY REQUIRE SPECIALIZED TRAINING TO ENSURE THAT THE MEASURE IS MAINTAINED IN A MANNER CONSISTENT WITH ITS FUNCTION. SUCH TRAINING MAY ADDRESS SPECIALIZED INSPECTION OR MAINTENANCE TASKS AND/OR THE OPERATION OF SPECIALIZED MAINTENANCE EQUIPMENT.

COLLECTED MATERIAL MUST BE SENT TO APPROPRIATE DISPOSAL/RECYCLING FACILITIES.

THE SAFETY, NEEDS AND AESTHETIC PREFERENCES OF THE ADJACENT COMMUNITY CAN HELP DETERMINE THE TYPE, AMOUNT, AND FREQUENCY OF NECESSARY MAINTENANCE.

EMERGENCY MAINTENANCE AND REPAIRS MUST BE PERFORMED IN A TIMELY MANNER.

DEVELOPMENT OF A STORMWATER MANAGEMENT MEASURE DESIGN AND THE INSPECTION AND MAINTENANCE TASKS NECESSARY TO KEEP IT FUNCTIONING RELIABLY MUST INCLUDE CONSIDERATIONS FOR THE SAFETY OF INSPECTION AND MAINTENANCE PERSONNEL WHO WILL BE WORKING IN OR NEAR THE MEASURE.

COVER SHOULD BE MAINTAINED AT 85 PERCENT. IF VEGETATION HAS GREATER THAN 50 PERCENT DAMAGE, THE AREA SHOULD BE REESTABLISHED IN ACCORDANCE WITH THE ORIGINAL SPECIFICATIONS AND THE INSPECTION REQUIREMENTS PRESENTED ABOVE. ALL USE OF FERTILIZERS, MECHANICAL TREATMENTS, PESTICIDES AND OTHER MEANS TO ASSURE OPTIMUM VEGETATION HEALTH SHALL NOT COMPROMISE THE INTENDED PURPOSE OF THE EXTENDED DETENTION BASIN. ALL VEGETATION DEFICIENCIES SHOULD BE ADDRESSED WITHOUT THE USE OF FERTILIZERS AND PESTICIDES WHENEVER POSSIBLE. C. STRUCTURAL COMPONENTS

ALL STRUCTURAL COMPONENTS MUST BE INSPECTED FOR CRACKING, SUBSIDENCE, SPALLING, EROSION, AND DETERIORATION AT LEAST ANNUALLY. OTHER MAINTENANCE CRITERIA

REMOVED WITH MINIMUM DISRUPTION TO THE BOTTOM SURFACE

WHEN ESTABLISHING OR RESTORING VEGETATION, BIWEEKLY INSPECTIONS OF

THE OPERATION AND MAINTENANCE PLAN MUST INDICATE THE APPROXIMATE TIME THAT THE SYSTEM WOULD NORMALLY TAKE TO COMPLETELY DRAIN THE STORMWATER QUALITY DESIGN STORM RUNOFF VOLUME. THIS NORMAL DRAIN TIME SHOULD THEN BE USED TO EVALUATE THE SYSTEM'S ACTUAL PERFORMANCE. IF SIGNIFICANT INCREASES OR DECREASES IN THE DRAIN TIME ARE OBSERVED, THE SYSTEM'S OUTLET STRUCTURE, UNDERDRAIN SYSTEM, AND BOTH GROUNDWATER AND TAILWATER LEVELS MUST BE EVALUATED AND APPROPRIATE MEASURES TAKEN TO COMPLY WITH THE MAXIMUM DRAIN TIME REQUIREMENTS AND MAINTAIN THE PROPER FUNCTIONING OF THE BASIN.

INFILTRATION BASIN A. GENERAL MAINTENANCE

MAINTENANCE NOTES

REQUIRED MAINTENANCE PLAN PROCEDURES

REQUIRED MAINTENANCE PLAN COMTENTS

EXTENDED DETENTION BASIN A. GENERAL MAINTENANCE

B. VEGETATED AREAS

TOMS RIVER NJ 08753

AND REMAINING VEGETATION.

2. SCHEDULE OF MAINTENANCE INSPECTIONS AND MAINTENANCE TASKS:

1. COPIES OF THE MAINTENANCE PLAN MUST BE PROVIDED TO THE OWNER AND OPERATOR OF THE STORMWATER MANAGEMENT MEASURE AND TO ALL REVIEWING AGENCIES. A COPY SHOULD ALSO BE PROVIDED TO THE LOCAL MOSQUITO CONTROL OR EXTERMINATION COMMISSION UPON REQUEST.

3. THE MAINTENANCE PLAN MUST BE EVALUATED FOR EFFECTIVENESS AT LEAST ANNUALLY AND MUST BE REVISED AS NEEDED.

4. A DETAILED, WRITTEN LOG OF ALL PREVENTATIVE AND CORRECTIVE MAINTENANCE PERFORMED AT THE STORMWATER MANAGEMENT MEASURE MUST BE KEPT, INCLUDING A RECORD OF ALL INSPECTIONS AND COPIES OF MAINTENANCE—RELATED WORK ORDERS.

5. THE PERSON WITH OVERALL MAINTENANCE RESPONSIBILITY MUST MAKE THE MAINTENANCE PLAN, LOGS, AND OTHER RECORDS AVAILABLE FOR REVIEW UPON REQUEST FROM A PUBLIC ENTITY WITH JURISDICTION OVER THE ACTIVITIES AT THE SITE.

1. PERSON RESPONSIBLE FOR OVERALL MAINTENANCE OF THE STORMWATER MANAGEMENT MEASURE:

ALL EXTENDED DETENTION BASIN COMPONENTS EXPECTED TO RECEIVE AND/OR TRAP DEBRIS AND SEDIMENT MUST BE INSPECTED FOR CLOGGING AND EXCESSIVE DEBRIS AND SEDIMENT ACCUMULATION AT LEAST FOUR TIMES ANNUALLY AS WELL AS AFTER EVERY STORM EXCEEDING 1 INCH OF RAINFALL. SUCH COMPONENTS MAY INCLUDE BOTTOMS, TRASH RACKS, LOW FLOW CHANNELS, OUTLET STRUCTURES, RIPRAP OR GABION APRONS, AND INTERS

SEDIMENT REMOVAL SHOULD TAKE PLACE WHEN THE BASIN IS THOROUGHLY DRY. DISPOSAL OF DEBRIS AND TRASH SHOULD BE DONE AT SUITABLE DISPOSAL/RECYCLING SITES AND IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL WASTE REGULATIONS.

MOWING AND/OR TRIMMING OF VEGETATION MUST BE PERFORMED ON A REGULAR SCHEDULE BASED ON SPECIFIC SITE CONDITIONS. GRASS SHOULD BE MOWED AT LEAST ONCE A MONTH DURING THE GROWING SEASON. VEGETATED AREAS MUST ALSO BE INSPECTED AT LEAST ANNUALLY FOR EROSION AND SCOUR. VEGETATED AREAS SHOULD ALSO BE INSPECTED AT LEAST ANNUALLY FOR UNWANTED GROWTH, WHICH SHOULD BE

VEGETATION HEALTH SHOULD BE PERFORMED DURING THE FIRST GROWING SEASON OR UNTIL THE VEGETATION IS ESTABLISHED. ONCE ESTABLISHED, INSPECTIONS OF

ANNUALLY DURING BOTH THE GROWING AND NON-GROWING SEASONS. THE VEGETATIVE

VEGETATION HEALTH, DENSITY, AND DIVERSITY SHOULD BE PERFORMED AT LEAST TWICE

2. THE TITLE AND DATE OF THE MAINTENANCE PLAN AND THE NAME AND/OR TITLE AND ADDRESS OF THE PERSON WITH OVERALL MAINTENANCE RESPONSIBILITY MUST BE RECORDED ON THE DEED OF THE PROPERTY ON WHICH THE STORMWATER MANAGEMENT MEASURE IS LOCATED. ANY CHANGE IN THE NAME OR TITLE MUST ALSO BE RECORDED ON THE DEED, PARTICULARLY IF THERE IS A CHANGE OF PROPERTY OWNERSHIP.

ALL INFILTRATION BASIN COMPONENTS EXPECTED TO RECEIVE AND/OR TRAP DEBRIS AND SEDIMENT MUST BE INSPECTED FOR CLOGGING AND EXCESSIVE DEBRIS AND SEDIMENT ACCUMULATION AT LEAST FOUR TIMES ANNUALLY AS WELL AS AFTER EVERY STORM EXCEEDING ONE INCH OF RAINFALL. SUCH COMPONENTS MAY INCLUDE BOTTOMS, RIPRAP OR GABION APRONS, AND INFLOW POINTS. THIS APPLIES TO BOTH SURFACE AND SUBSURFACE INFILTRATION BASINS. SEDIMENT REMOVAL SHOULD TAKE PLACE WHEN THE BASIN IS THOROUGHLY DRY. DISPOSAL OF DEBRIS AND TRASH SHOULD BE DONE AT SUITABLE DISPOSAL/RECYCLING SITES AND IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL WASTE REGULATIONS. STUDIES HAVE SHOWN THAT READILY VISIBLE STORMWATER MANAGEMENT FACILITIES LIKE INFILTRATION BASINS RECEIVE MORE FREQUENT AND THOROUGH MAINTENANCE THAN THOSE IN LESS VISIBLE, MORE REMOTE LOCATIONS. READILY VISIBLE FACILITIES CAN ALSO BE ISPECTED FASTER AND MORE EASILY BY MAINTENANCE AND MOSQUITO CONTROL

B. VEGETATED AREAS

MOWING AND/OR TRIMMING OF VEGETATION MUST BE PERFORMED ON A REGULAR SCHEDULE BASED ON SPECIFIC SITE CONDITIONS. GRASS SHOULD BE MOWED AT LEAST ONCE A MONTH DURING THE GROWING SEASON. VEGETATED AREAS MUST ALSO BE INSPECTED AT LEAST ANNUALLY FOR EROSION AND SCOUR. THE STRUCTURE MUST BE INSPECTED FOR UNWANTED TREE GROWTH AT LEAST ONCE A YEAR.

WHEN ESTABLISHING OR RESTORING VEGETATION, BIWEEKLY INSPECTIONS OF VEGETATION HEALTH SHOULD BE PERFORMED DURING THE FIRST GROWING SEASON OR UNTIL THE VEGETATION IS ESTABLISHED. ONCE ESTABLISHED, INSPECTIONS OF VEGETATION HEALTH, DENSITY AND DIVERSITY SHOULD BE PERFORMED AT LEAST TWICE BOTH THE GROWING AND NON-GROWING SEASON. IF VEGETATION HAS GREATER THAN 50 SHOULD BE REESTABLISHED IN ACCORDANCE WITH THE ORIGINAL SPECIFICATIONS AND PRESENTED ABOVE.

ALL USE OF FERTILIZERS, MECHANICAL TREATMENTS, PESTICIDES AND OTHER MEANS TO ASSURE OPTIMUM VEGETATION HEALTH MUST NOT COMPROMISE THE INTENDED PURPOSE OF THE BIORETENTION SYSTEM. ALL VEGETATION DEFICIENCIES SHOULD BE ADDRESSED WITHOUT THE USE OF FERTILIZERS AND PESTICIDES WHENEVER POSSIBLE. ALL VEGETATED AREAS SHOULD BE INSPECTED AT LEAST ANNUALLY FOR LINWANTED GROWTH, WHICH SHOULD BE REMOVED WITH MINIMUM DISRUPTION TO THE REMAINING VEGETATION AND BASIN SUBSOIL.

C. STRUCTURAL COMPONENTS ALL STRUCTURAL COMPONENTS MUST BE INSPECTED FOR CRACKING, SUBSIDENCE, SPALLING, EROSION, AND DETERIORATION AT

LEAST ANNUALLY. D. OTHER MAINTENANCE CRITERIA

> THE OPERATION AND MAINTENANCE PLAN MUST INDICATE THE APPROXIMATE TIME THAT THE BASIN WOULD NORMALLY TAKE TO DRAIN THE STORMWATER QUALITY DESIGN STORM RUNOFF VOLUME BELOW THE GROUND SURFACE. THIS NORMAL DRAIN OR DRAWDOWN TIME SHOULD THEN BE USED TO EVALUATE THE BASIN'S ACTUAL PERFORMANCE. IF SIGNIFICANT INCREASES OR DECREASES IN THE DRAIN TIME ARE OBSERVED, THE BASIN'S BOTTOM SURFACE, SUBSOIL, AND BOTH GROUNDWATER AND TAILWATER LEVELS MUST BE EVALUATED AND APPROPRIATE MEASURES TAKEN TO COMPLY WITH THE MAXIMUM DRAIN TIME REQUIREMENTS AND MAINTAIN THE PROPER FUNCTIONING OF THE BASIN. THIS APPLIES TO BOTH SURFACE AND SUBSURFACE INFILTRATION BASINS.

> THE BOTTOM SAND LAYER IN A SURFACE INFILTRATION BASIN SHOULD BE INSPECTED AT LEAST MONTHLY AS WELL AS AFTER EVERY STORM EXCEEDING ONE INCH OF RAINFALL. THE PERMEABILITY RATE OF THE SOIL BELOW THE BASIN MAY ALSO BE
> RETESTED PERIODICALLY. IF THE WATER FAILS TO INFILTRATE 72 HOURS AFTER THE END OF
> THE STORM, CORRECTIVE MEASURES MUST BE TAKEN. ANNUAL TILLING BY LIGHT EQUIPMENT CAN ASSIST IN MAINTAINING INFILTRATION CAPACITY AND BREAK UP CLOGGED SURFACES.

3. PROBLEMS FOUND DURING MAINTENANCE INSPECTIONS SHALL BE CORRECTED. THESE INCLUDE THE RESTORATION OF ERODED AREAS, REPAIR OR REPLACEMENT OF STORMWATER MANAGEMENT MEASURE COMPONENTS, RESTORATION OF VEGETATION, AND REPAIR OR REPLACEMENT OF NON-VEGETATED LININGS. 4. THE EQUIPMENT NECESSARY TO PERFORM THE MAINTENANCE TASKS ARE AS

A. LAWN MOWING EQUIPMENT B. GAS POWERED TRIMMERS C. GAS POWERED BLOWERS
D. RAKES E. SHOVELS F. PICKS

G. WHEEL BARROWS
H. GAS POWERED HEDGE TRIMMERS I. CHAIN SAW

J. FERTILIZER/PESTICIDE APPLICATION K. WASTER RECEPTACLES
L. MAINTENANCE VEHICLES

5. COST ESTIMATE OF THE INSPECTION AND MAINTENANCE TASKS

ANNUAL EQUIPMENT COST \$3,500.00 TOTAL COST ITEM # ANNUAL COST OF SUPPLIES (SEED, FERTILZER, FUEL, ETC.) ITEM

UNIT COST TOTAL COST ITEM #

ANNUAL LABOR - COST/DAY UNIT COST TOTAL COST TOTAL MAINTENANCE COST (PER YEAR) \$7,000.00

> ROADWAY IMPROVEMENT PLANS BASIN MAINTENANCE PLAN

> > JULY 31, 2007

PINEWALD ESTATES

MISC. BLOCKS AND LOTS BERKELEY TOWNSHIP

CHECKED BY:

FOR

OCEAN COUNTY

DESIGNED BY:

NEW JERSEY

2/21/14 REVISED FOR RESOLUTION COMPLIANCE 3/12/10 REVISED FOR RESOLUTION COMPLIANCE MCS 1 1/11/08 REVISED PER PLANNING BOARD ENGINEER NO. DATE DESCRIPTION

SCALE IN FEET

NSULTING ENGINEERS, PLANNERS, ENVIRONMENTAL SCIENTI 1245 AIRPORT ROAD, SUITE 1, LAKEWOOD, NEW JERSEY 0870 PHONE 732 363 0060 FAX 732 363 0073 ENGINEERING @ PDSDOVER.COM NEW JERSEY STATE BOARD OF P.E. & L.S. CERTIFICATE OF AUTHORIZATION NO. 24GA28125400 DRAWN BY:

PROFESSIONAL DESIGN SERVICES. L.L.C.

27048 SHEET JOB NUMBER:

