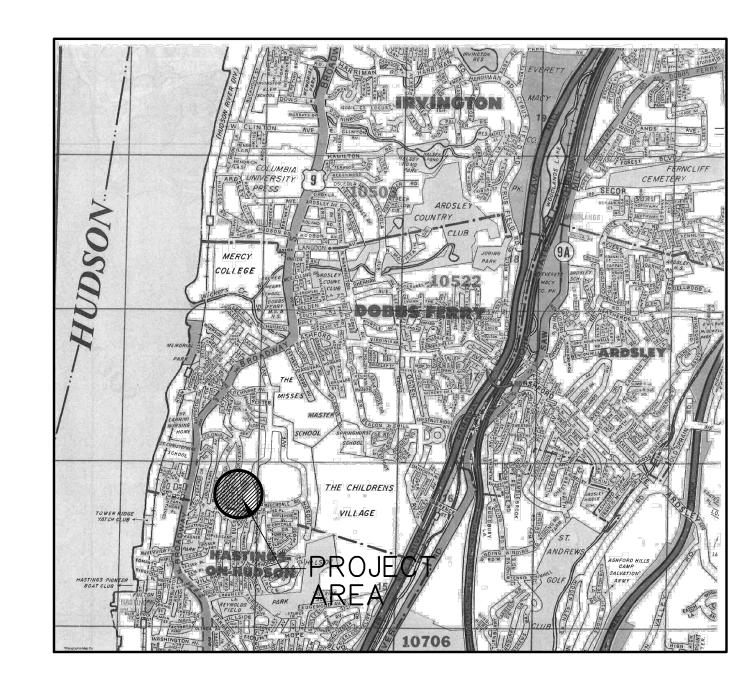
BELLAIR DRIVE DRAINAGE IMPROVEMENTS VILLAGE OF DOBBS FERRY, N.Y.

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LOCATION MAP N.T.S.

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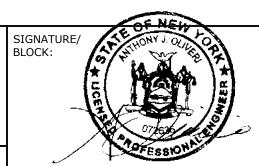
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					APPROVED BY:	AO	
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ENGINEER:

AI Engineers, INC.

dolph rotfeld engineering division
570 TAXTER ROAD, ELMSFORD, NY 10523
(914) 631-8600

FILENAME: BELLAIR DRIVE DRAINAGE 9-14-22.DWG



BELLAIR DRIVE DRAINAGE IMPROVEMENTS VILLAGE OF DOBBS FERRY, NY
RAWING TITLE:
COVER SHEET

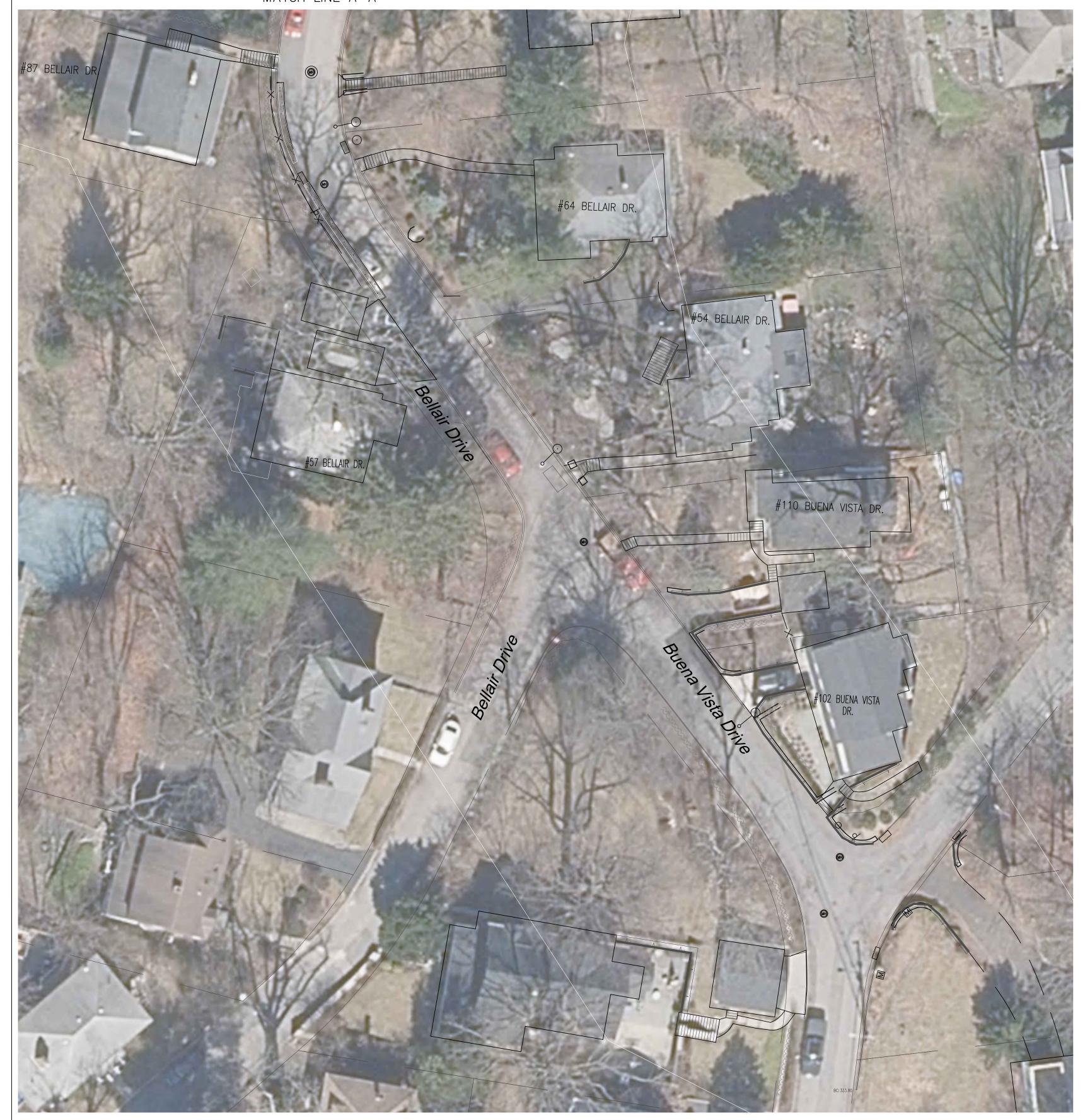
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C-001

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1 of 11





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SITE PLAN GRAPHIC SCALE (IN FEET) 1 inch = 20 ft.

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(914) 631-8600 FILENAME: BELLAIR DRIVE DRAINAGE 9-14-22.DWG

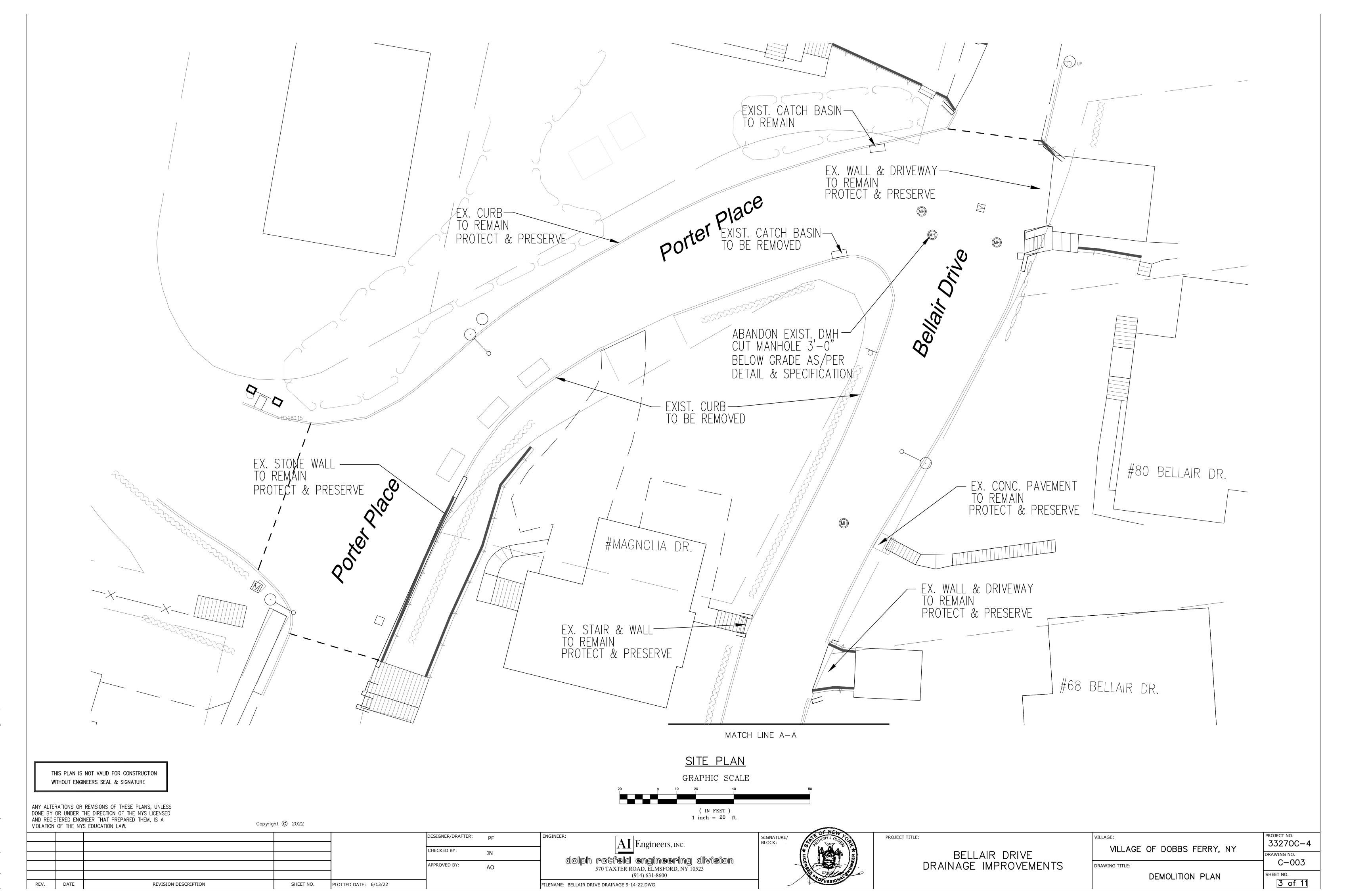
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BELLAIR DRIVE DRAINAGE IMPROVEMENTS

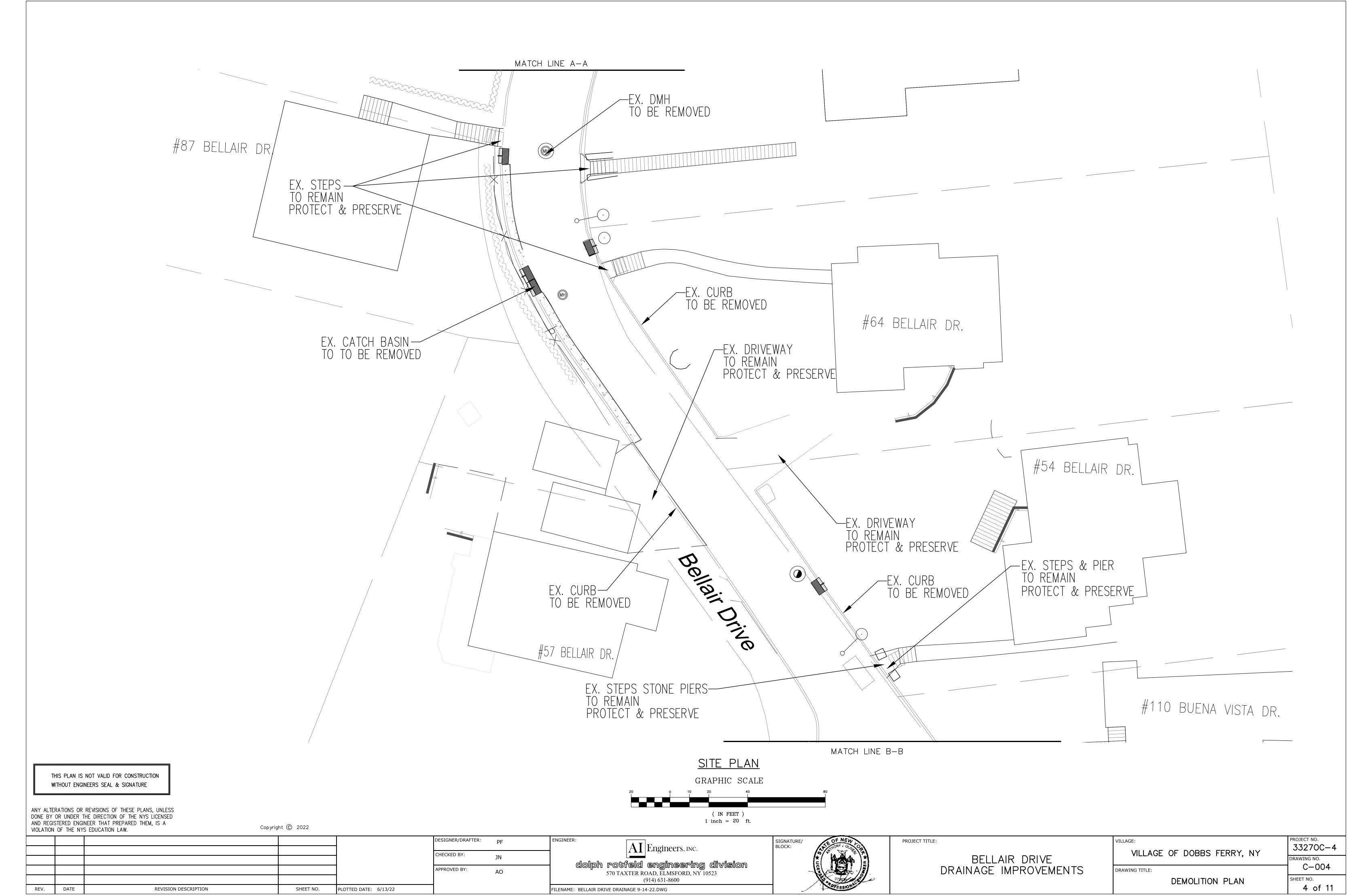
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VILLAGE:		
VILLAGE (OF DOBBS	FERRY, NY
DRAWING TITLE:		
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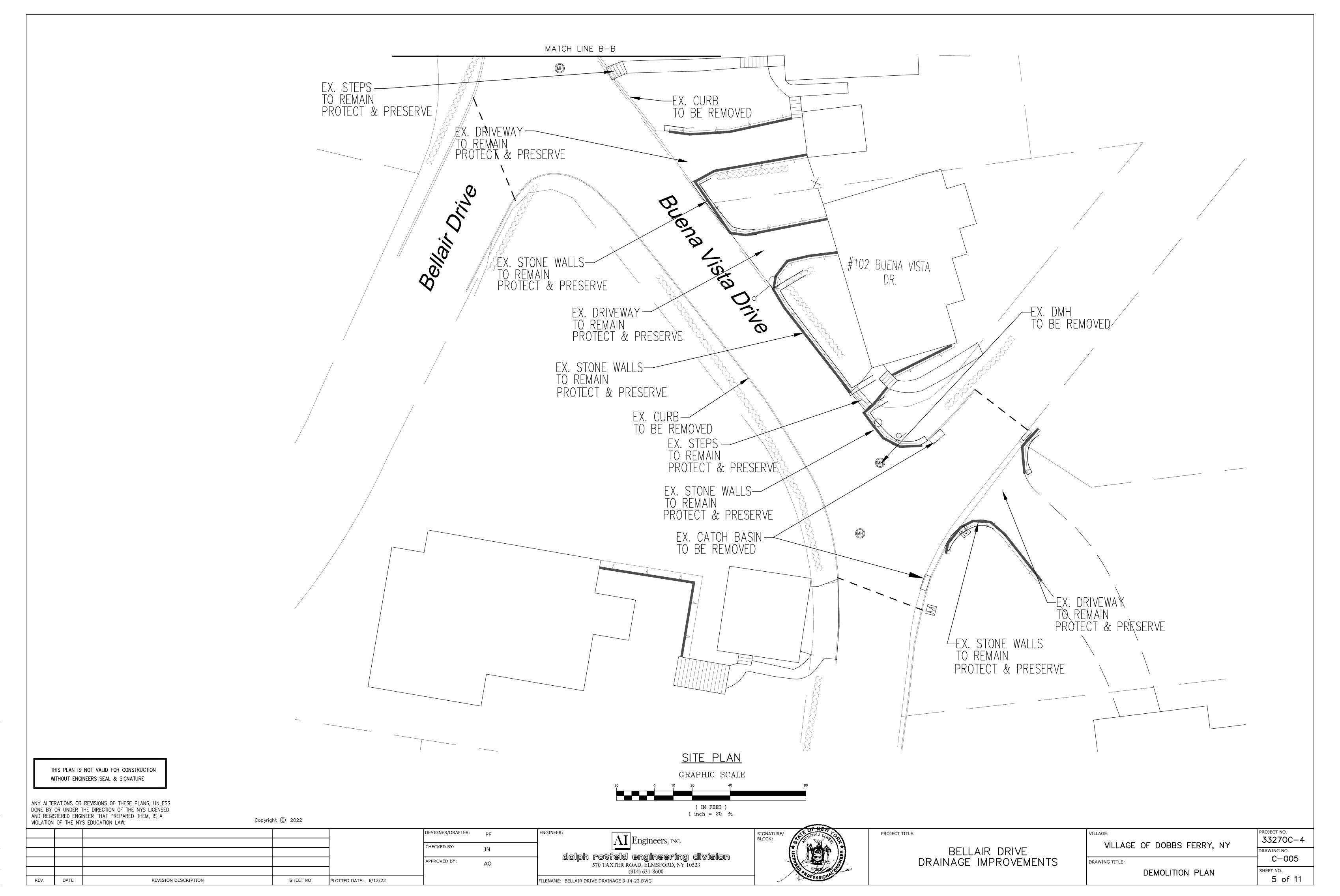
33270C-4 C-002 SHEET NO. 2 of 11



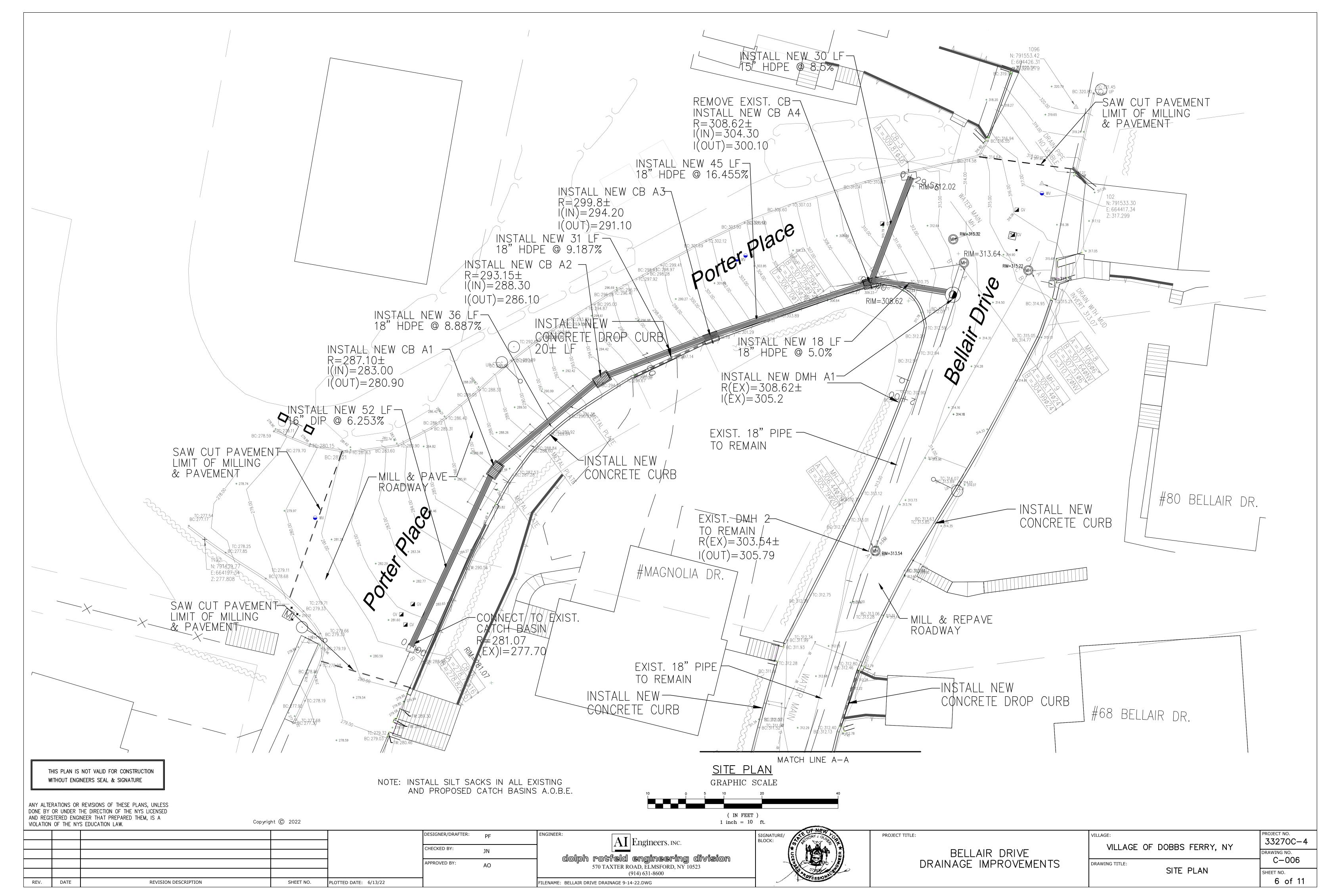
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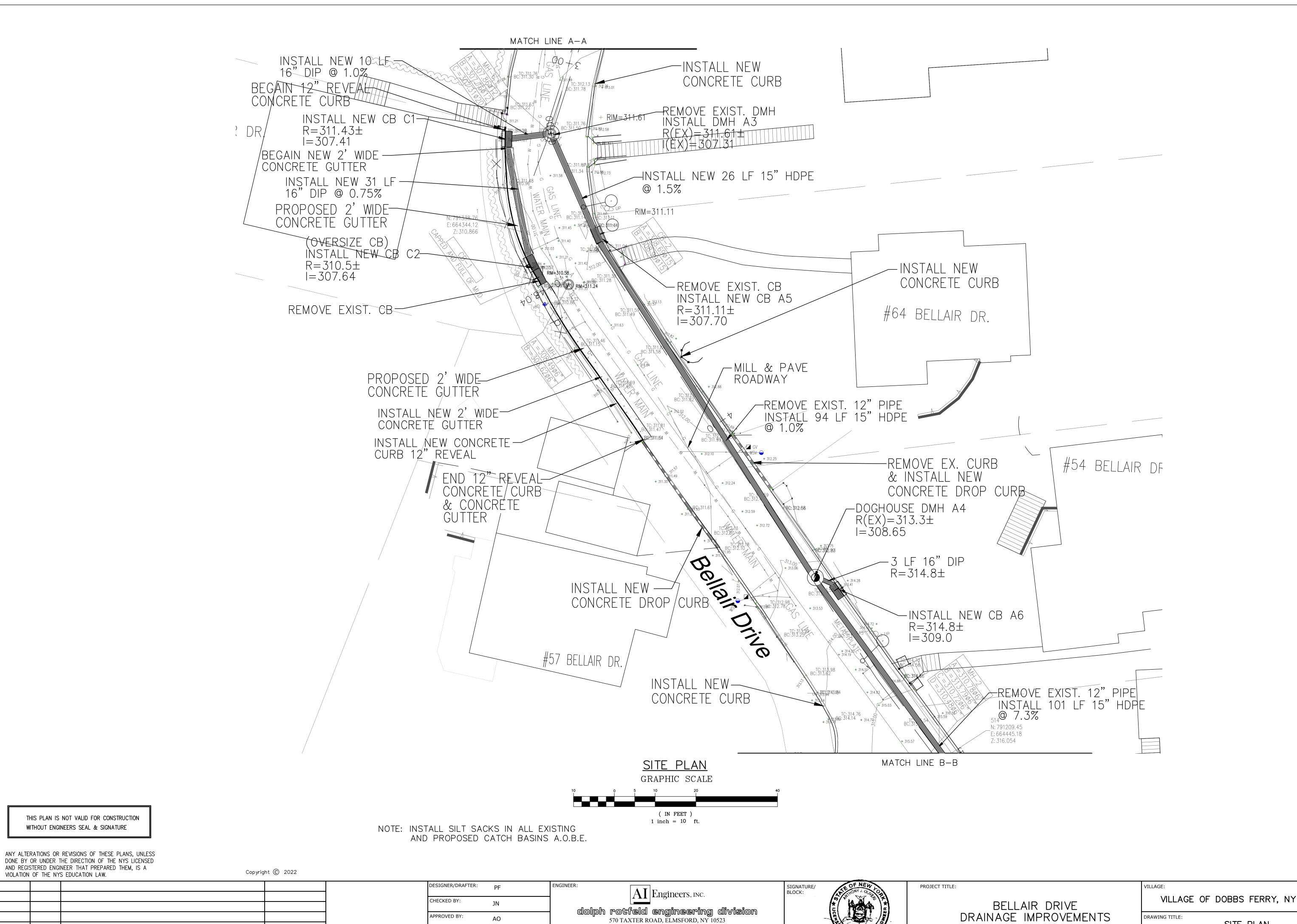


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ts\Municipalities\Dobbs Ferry\Bellair Dr\BELLAIR DRIVE DRAINAGE 9-14-22.dwg, DEMO, 1





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FILENAME: BELLAIR DRIVE DRAINAGE 9-14-22.DWG

33270C-4

C-007

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DRAWING NO.

SHEET NO.

SITE PLAN

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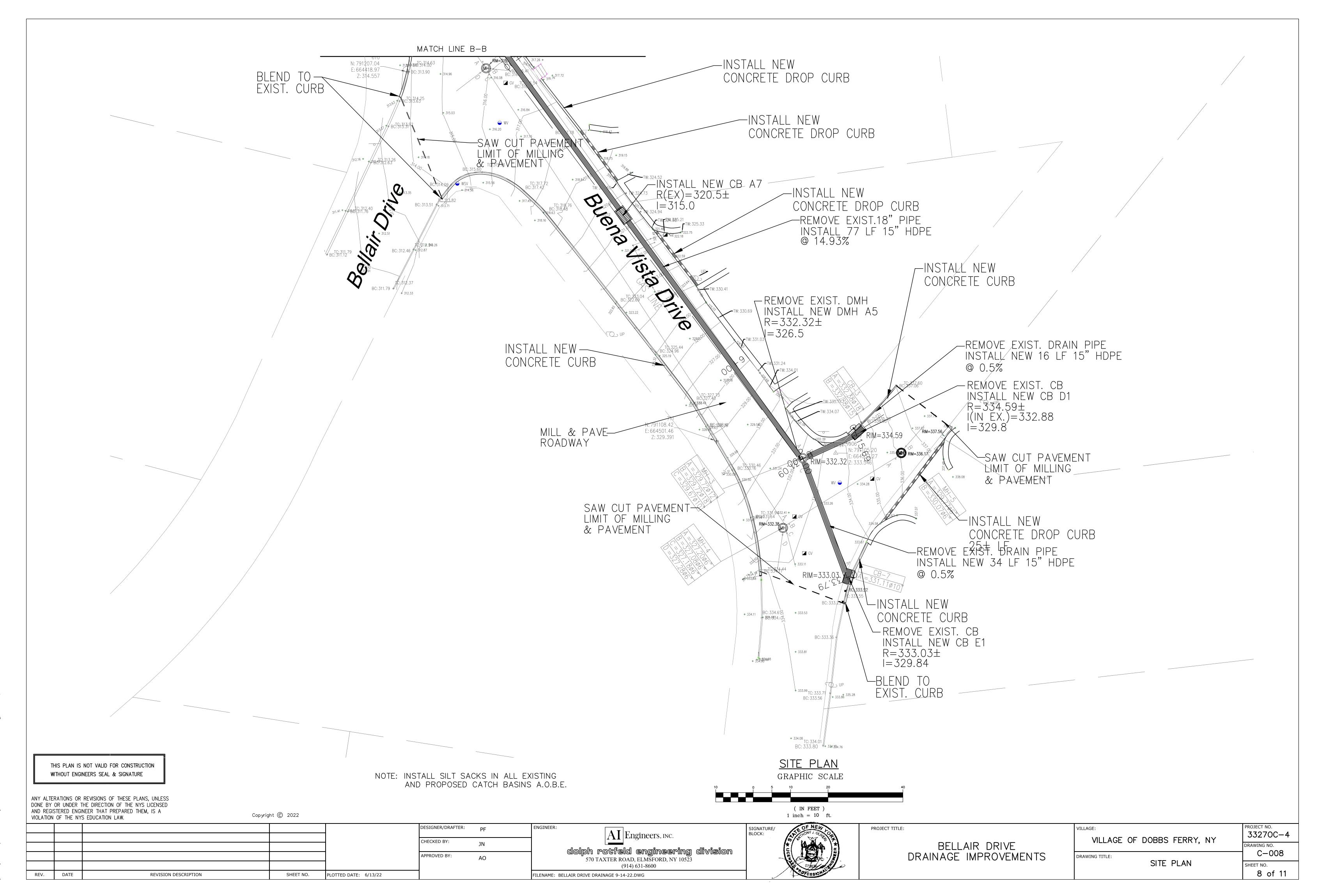
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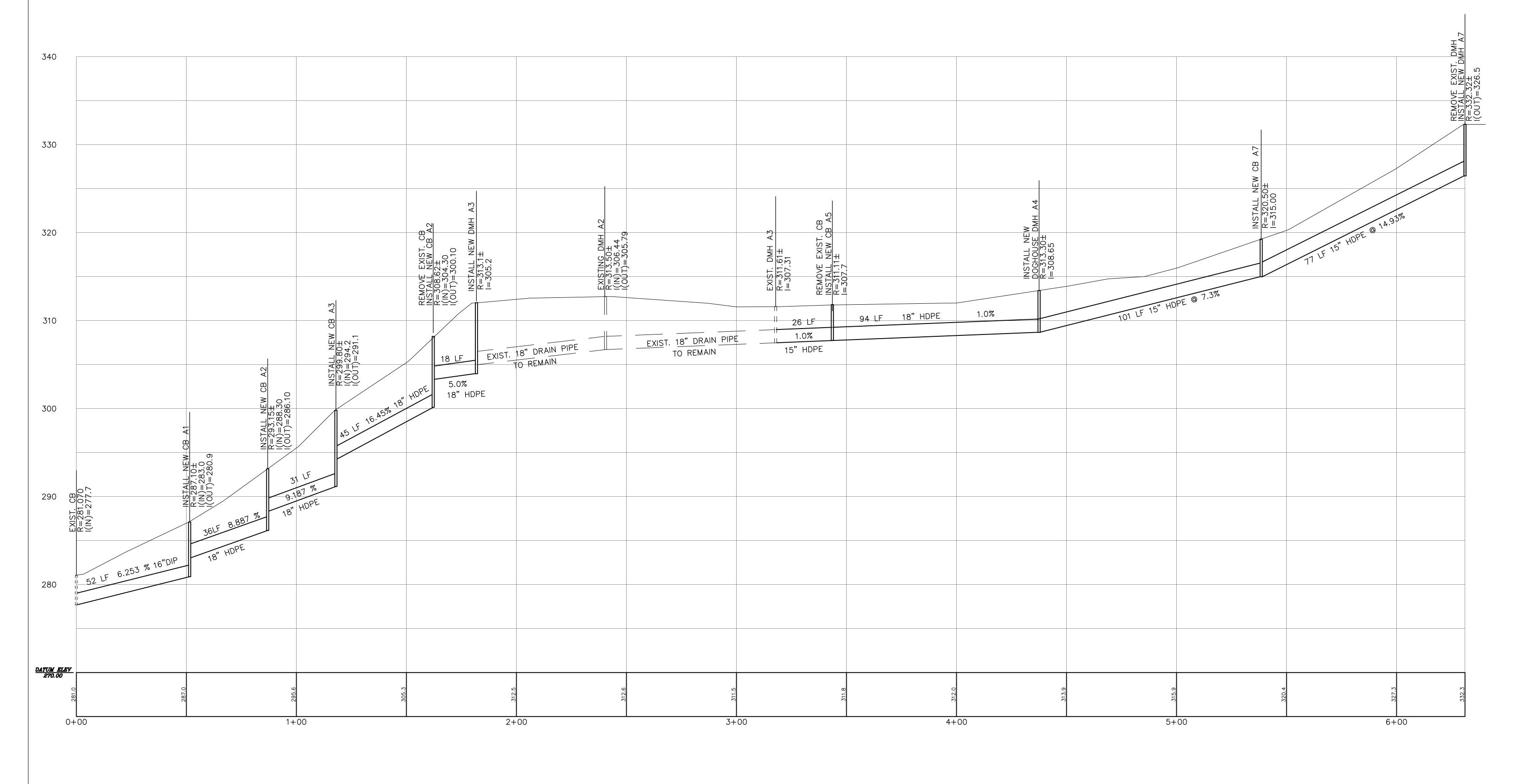
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DATE

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DRAINAGE PROFILE

SCALE HORIZ. 1"=20'
VERT. 1"=5'

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AI Engineers, INC.

dolph rotfeld engineering division
570 TAXTER ROAD, ELMSFORD, NY 10523
(914) 631-8600

BELLAIR DRIVE DRAINAGE IMPROVEMENTS VILLAGE OF DOBBS FERRY, NY

DRAWING TITLE:

DRAINAGE PROFILE

DRAINAGE PROFILE

PROJECT NO.

33270C-4

DRAWING NO.

C-009

SHEET NO.

9 of 11

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FILENAME: BELLAIR DRIVE DRAINAGE 9-14-22.DWG

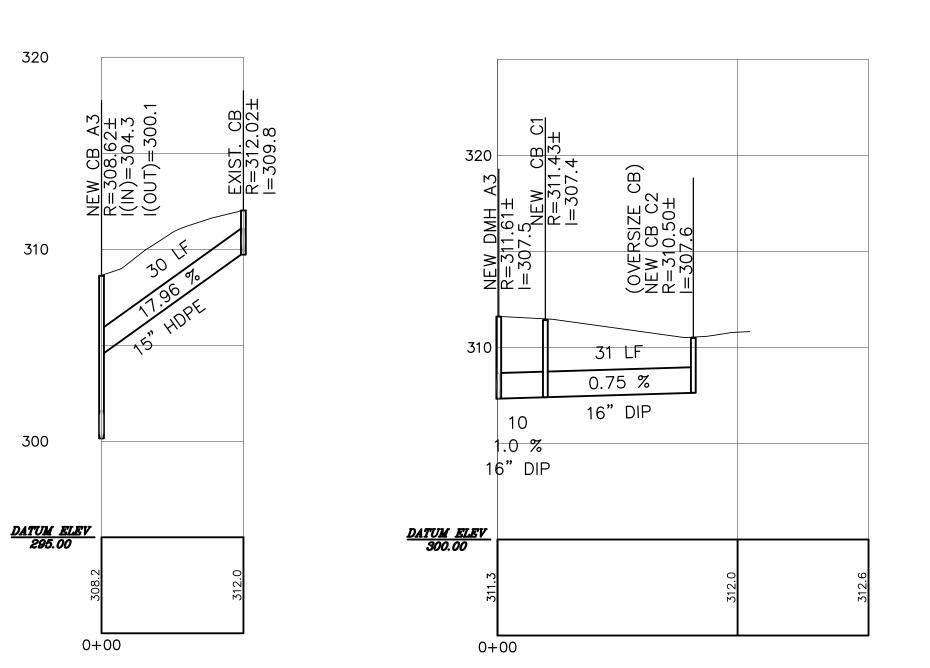
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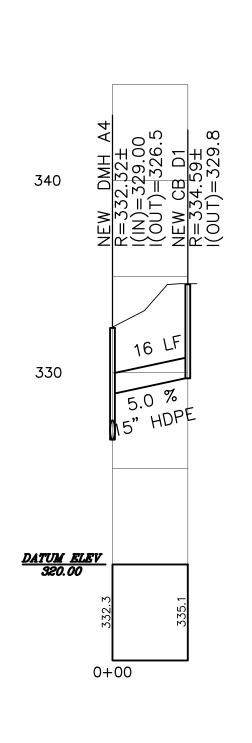
VILLAGE OF DOBBS FERRY, NY DRAINAGE PROFILE

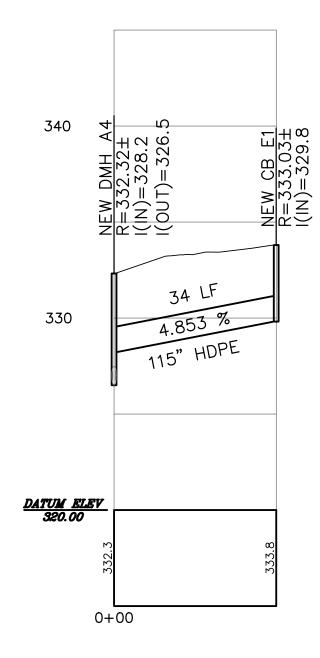
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BELLAIR DRIVE DRAINAGE IMPROVEMENTS

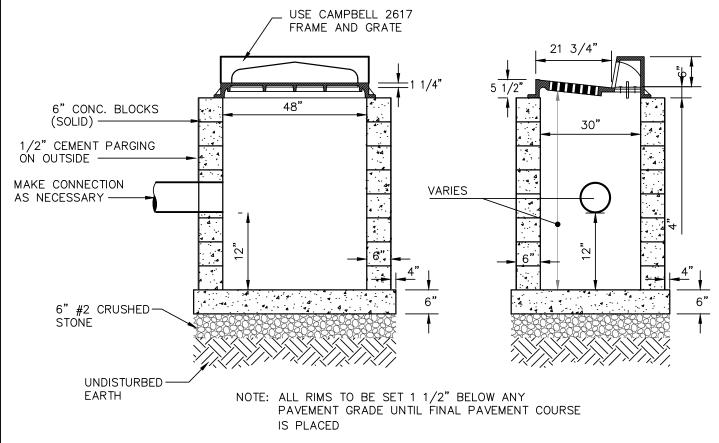
10 of 11



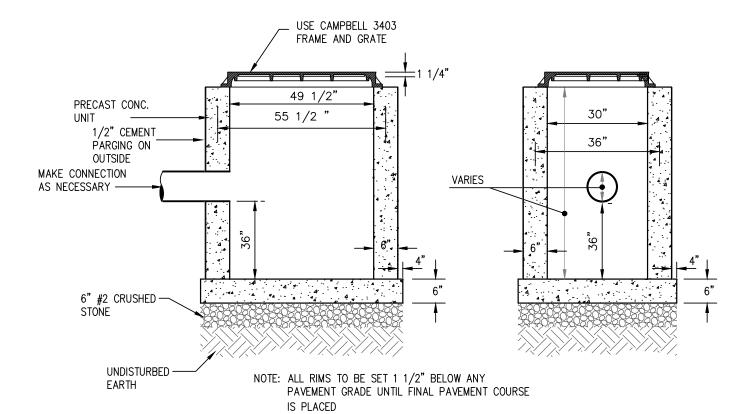




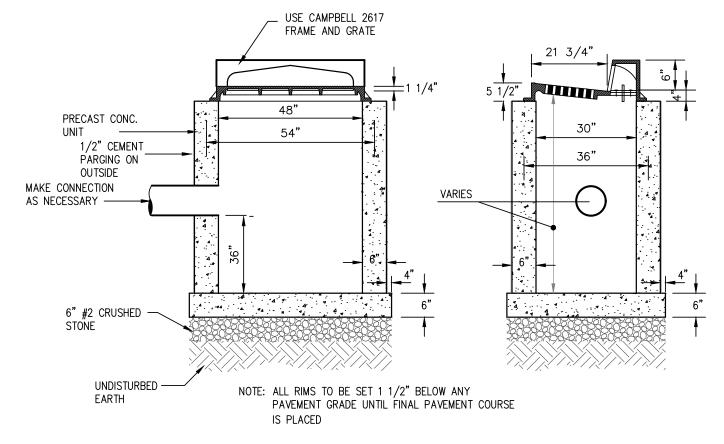
DRAINAGE PROFILE SCALE HORIZ. 1"=20' VERT. 1"=5'



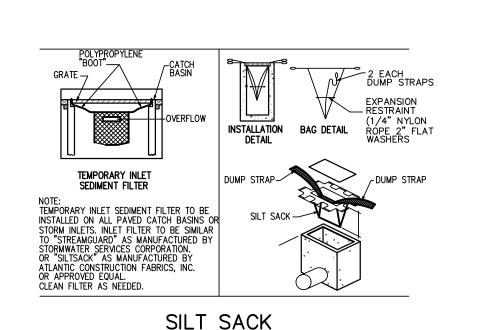
CONCRETE BLOCK CATCH BASIN



PRECAST CONCRETE CATCH BASIN WITHOUT CURB BOX



PRECAST CONCRETE CATCH BASIN WITH CURB BOX



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PORTION OF MANHOLE TO A POINT 3'-0" BELOW FINISH GRADE — FILL WITH TRENCH BACKFILL -FILL VOID WITH SAND/CEMENT SLURRY -WATERTIGHT MASONARY PIPE DIA. + 12" MANHOLE ABANDONMENT

BREAKDOWN AND REMOVE

FRONT VIEW 15 13/16" 25 **3"**

OVERSIZE PRECAST CATCH BASIN INLET

CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ENGINEER'S APPROVAL

- SPRAY CURE EXPOSED FACES -PROPOSED SURFACE

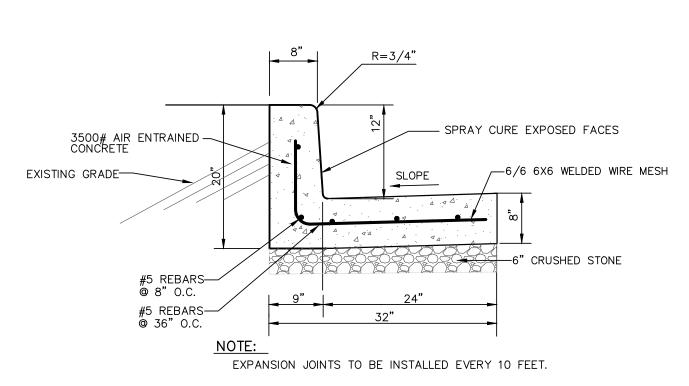
10 13/16"

- 3500# AIR ENTRAINED CONCRETE

2-#5 REBARS

CONTINUOUS

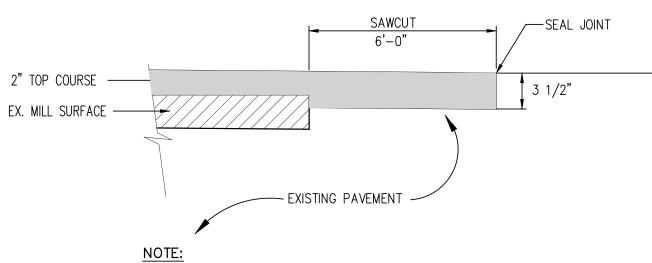
EXPANSION JOINTS TO BE INSTALLED EVERY 10 FEET. **CONCRETE CURB**



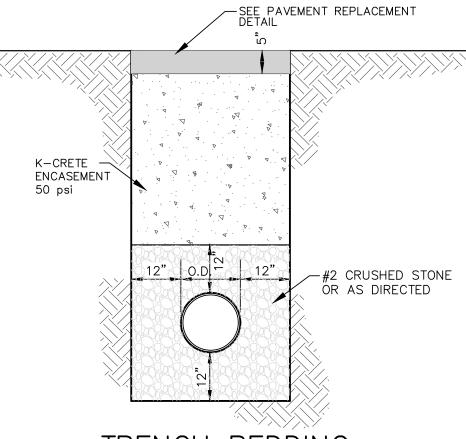
ENGINEER:

REVEAL CONCRETE CURB CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ENGINEER'S APPROVAL

TILENAME: BELLAIR DRIVE DRAINAGE 9-14-22.DWG

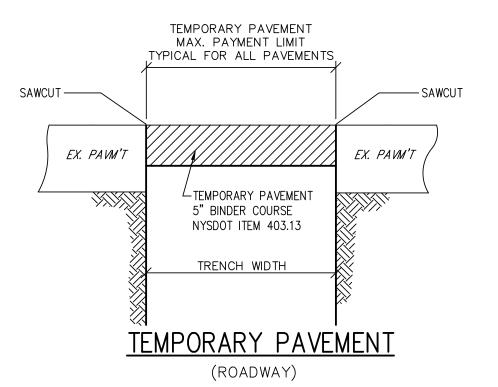


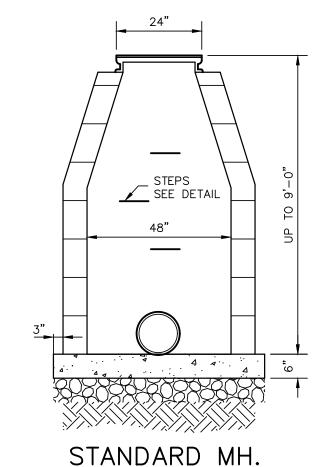
TACK COAT VERTICAL AND HORIZONTAL SURFACES TO RECEIVE OVERLAY KEYWAY-SAWCUT



- MATCH CURB AND GUTTER DETAIL

TRENCH BEDDING (ALL PIPES)

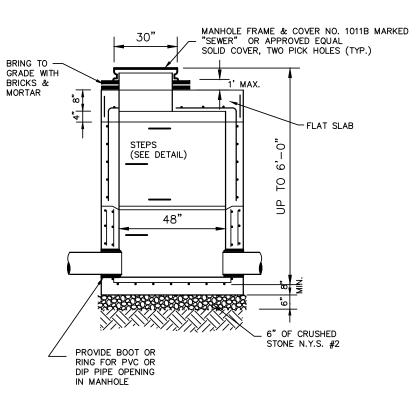




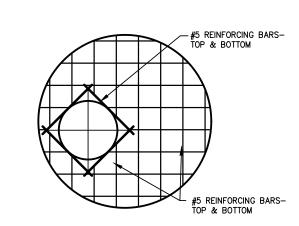
- 1. MANHOLES SHALL BE MADE OF 8" BRICK, 6" SOLID CONCRETE MH. BLOCKS, OR PRECAST
- 2. MANHOLE FRAME & COVERS TO BE CAMPBELL PATTERN #1009 FOR 24" OPENINGS OR APPROVED EQUAL. MH. COVERS TO BE MARKED "SEWER" AND TO HAVE SIX 3/4" Ø HOLE VENTS. (USE SOLID COVERS WHERE NECESSARY.)
- 3. EXTERIOR & INTERIOR OF ALL MANHOLES SHALL HAVE A 1/2" CEMENT PLASTER FINISH. THE EXTERIOR SHALL ALSO BE COVERED WITH AN APPROVED ASPHLT WATERPROOFING. 4. A MANHOLE WATERSTOP SHALL BE INSTALLED WHERE THE PIPE ENTERS INTO AN EXISTING OR BLOCK MANHOLE, AS APPROVED BY THE TOWN ENGINEER.
- BRICK OR BLOCK MANHOLE

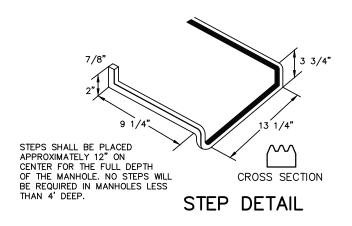
GENERAL NOTES

- 1. ANY CHANGES WHATSOEVER TO THE IMPROVEMENTS SHOWN OR NOT SHOWN ONE THE CONTRACT DRAWINGS SHALL BE AUTHORIZED BY THE ENGINEER.
- 2. THE UTILITY MAINS, DUCTS, POLES AND SERVICES IN THE CONSTRUCTION AREA, WHERE SHOWN ON THE CONTRACT DRAWINGS ARE AT THE APPROX. LOCATIONS FURNISHED BY THE VARIOUS UTILITIES CONCERNED. WHENEVER EXISTING IMPROVEMENT INFORMATION IS EITHER INDICATED ON THE DRAWINGS OR SUPPLIED TO THE CONTRACTOR AT A LATER DATE. IT IS UNDERSTOOD THAT SUCH INFORMATION IS FURNISHED IN GOOD FAITH THIS INFORMATION ACCORDING TO HIS OWN JUDGMENT. AND MUST MAKE MAKE HIS OWN DETERMINATIONS REGARDING THE LOCATION OF ALL IMPROVEMENTS. NO CLAIM WILL BE ALLOWED BECAUSE OF INCORRECT, INCOMPLETE OR OMITTED EXISTING IMPROVEMENT INFORMATION.
- 3. ALL RIM ELEVATIONS FOR MANHOLES, CATCH BASINS, WATER AND GAS VALVES. ETC. MUST BE VERIFIED AND ADJUSTED TO MEET FIELD CONDITIONS.
- 4. ALL WORK, MATERIALS, SPECIFICATIONS, REGULATIONS, RULES, PERMITS, ETC., OF ALL STATE, COUNTY AND LOCAL GOVERNMENTS AND ALL UTILITY AGENCIES SHALL BE FOLLOWED BY THE CONTRACTOR.
- 5. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE STATE IF NEW YORK DEPARTMENT OF LABOR, BOARD OF STANDARDS AND APPEALS INDUSTRIAL CODE RULE 753 - "CONSTRUCTION, EXCAVATION AND DEMOLITION OPERATIONS AT OR NEAR UNDERGROUND FACILITIES", EFFECTIVE APRIL 1, 1975. THE CONTRACTOR WILL BE REQUIRED TO COMPLY WITH ALL APPLICABLE REQUIREMENTS OF INDUSTRIAL CODE RULE 753.
- 6. PRIVATE UTILITIES, CONTRACTORS, DEVELOPERS, OR OTHER PARTIES MAY BE EXPECTED TO BE WORKING WITHIN THE CONTRACT AREA DURING THIS CONTRACT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE HIS WORK UNDER THIS CONTRACT WITH THE WORK BEING DONE BY OTHERS IN ORDER THAT THE CONSTRUCTION MAY PROCEED IN A EFFICIENT AND LOGICAL MANNER.
- 7. THE CONTRACTOR SHALL VERIFY ALL EXISTING AND PROPOSED ELEVATIONS IN THE FIELD.
- 8. THE CONTRACTOR SHALL PROVIDE ALL BARRICADES, SIGNS, LIGHTS, ETC., FOR MAINTENANCE AND PROTECTION OF TRAFFIC FOR THE DURATION OF THIS CONTRACT, ALL IN ACCORDANCE WITH THE LATEST NYSDOT MANUAL OF TRAFFIC CONTROL DEVICES.
- 10. THE CONTRACTOR SHALL COMPLY WITH ALL RULES, REGULATIONS AND DIRECTIVES BY THE LOCAL POLICE DEPARTMENT.
- 11. THE CONTRACTOR SHALL RESTORE ALL DISTURBED EXISTING FEATURES TO A CONDITION EQUAL TO OR BETTER THAN CURRENTLY EXISTED
- 12. THE CONTRACTOR SHALL COMPLY WITH THE LATEST OSHA CONFINED SPACE ENTRY REQUIREMENTS (29 CFR PART 1910).
- 13. THE CONTRACTOR SHALL COMPLY WITH THE LATEST REVISED OSHA SHEETING REQUIREMENTS (29 CFR PART 1926.650,651,652).



NOTE: CONC. TO TEST 4000 PSI AT TIME OF DELIVERY. RISER SECTIONS IDENTICAL TO STANDARD PRECAST CONC. MANHOLE.





- 1. THE NOTES 1,2,4,6 OF BRICK MANHOLES SHALL APPLY TO THE PRECAST MANHOLE.
- 2. THE CONTRACTOR SHALL SUBMIT DETAILS OF THE PRECAST MANHOLE TO THE ENGINEER FOR APPROVAL.
- PRECAST MANHOLES SHALL HAVE MINIMUM REINFORCEMENT OF 0.12 SQ.IN. PER LIN. FT. FOR 48" BARREL & 0.17 SQ.IN.PER LIN. FT. FOR 60" BARREL & AS PER A.S.T.M. C-478.
- 4. THE CONTRACTOR MAY WITH THE APPROVAL OF THE ENGINEER SUBSTITUTE A BUILT UP BASE SECTION CONSISING OF 6" CONCRETE BLOCK WALLS & 6" MIN. THICKNESS CONCRETE SLAB(1: 2: 4 MIX.) FOR
- 5. PRECAST BASE SECTION TO HAVE THE REQUIRED NUMBER OF GASKETS AND OPENINGS AS SHOWN AND SPECIFIED.
- PAYMENT LIMITS LINES FOR ROCK EXCAVATION SHALL BE 1'-0" OUTSIDE THE WIDEST PART OF THE STRUCTURE.
- 7. PRECAST MANHOLE SECTIONS SHALL EMPLOY A WATERTIGHT GASKET ARRANGEMENT BETWEEN EACH SECTION APPROVED BY THE ENGINEER.
- 8. GASKETS OR COLLARS FOR PIPE CONNECTIONS TO MANHOLES SHALL BE WATERTIGHT AND COMPATABLE WITHE THE TYPE OF
- 9. THE LENGTH OF PIPES ENTERING OR LEAVING ANY MANHOLE SHALL BE GREATER THAN 2'-0" BUT LESS THAN 6'-0" 10. PRECAST MANHOLES UNDER 6'0" SHALL HAVE "FLAT TOP"
- 11. GASKETS OR COLLARS FOR PIPE CONNECTIONS TO MANHOLE
- SHALL PROVIDE A MIN. OF 0.1' SLOPE ACROSS THE MANHOLE. 12. THE LEAKAGE OUTWARD OR THE INFILTRATION SHALL NOT EXCEED ONE HUNDRED(100) GALLONS PER INCH OF SEWER PIPE DIAMETER PER MILE PER DAY FOR ANY SECTTION OF THE SEWERAGE SYSTEM

PRECAST CONCRETE MANHOLE

VILLAGE OF DOBBS FERRY, NY

DRAWING NO. C-011 DETAILS AND NOTES SHEET NO.

(FLAT SLAB)

BELLAIR DRIVE DRAINAGE IMPROVEMENTS

REV.

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m Engineers}$, inc. dolph rotfeld engineering division 570 TAXTER ROAD, ELMSFORD, NY 10523

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11 of 11

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