

### **LAURA WAKEFIELD**

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GOTHAM DESIGN

55 HILLS DOBBS

AND COMMUNITY DEVELOPMENT LTD.

329 Broadway Dobbs Ferry, N.Y. 10522 Phone: (914) 693-5093 Fax: (914)693-5390 email: arch329@gmail.com

ISSUED / REVISIONS 12-03-2020 REVISED 1. TERRACE

2. ADDED EXT 'R COOKING AREA

SITE PLAN SCALE: 1" = 10'-0" GRAPHIC SCALE IN FEET

0 5 10

ALL LIGHTING SHALL COMPLY WITH SECTION 300-11.4

ALL SURVEYING INFORMATION ON THIS DRAWING IS TAKEN FROM A SURVEY DATED MAY 13, 1991 PREPARED BY: **CHARLES RILEY** 

TARRYTOWN, N.Y. 10591

SITE PLAN

**DEMOLITION PLAN** 

11-24-2020 MB

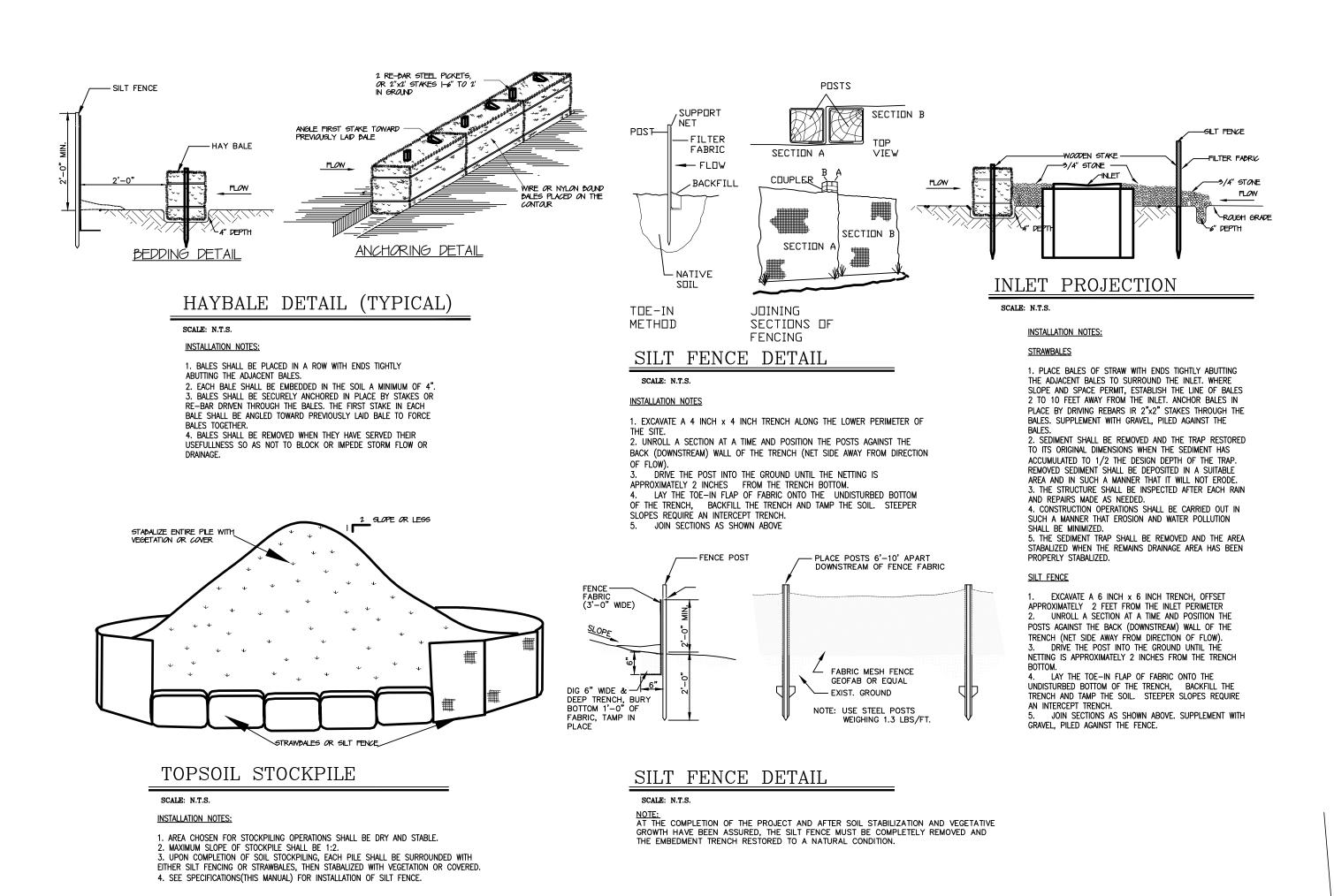
AS NOTED | PRS

DRAWN BY:

CHECKED BY:

SHEET TITLE:

LAND SURVEYOR LAND PLANNER 69 MAIN STREET



#### STORM DRAINAGE NOTES:

- 1. THE STORM DRAINAGE SYSTEM HAS BEEN DESIGNED FOR A 24-HOUR 100-YEAR STORM EVENT, WHICH IS 8.76 INCHES OR 0.73 FEET IN A 24-HOUR TIME PERIOD IN DOBBS FERRY
- 2. THE EXISTING TERRACE AND CURBING WILL BE REMOVED, ELIMINATING 242 SQUARE FEET OF IMPERVIOUS SURFACE AREA.
- 3. A NEW TERRACE, STEPS, AND RETAINING WALL WILL BE BUILT WITH 1,183 SQUARE FEET OF SURFACE AREA. WHILE THE TERRACE IS SEMI-PERVIOUS, NO DEDUCTION HAS BEEN MADE.
- 4. SUBTRACTING THE EXISTING IMPERVIOUS AREA OF 242 SQUARE FEET FROM THE PROPOSED IMPERVIOUS AREA OF 1,183 SQUARE FEET RESULTS IN A TOTAL NET INCREASE IN IMPERVIOUS AREA OF 941 SQUARE
- 5. THE BLUESTONE TERRACE HAS BEEN DESIGNED TO PITCH AWAY FROM THE HOUSE SO THAT STORM WATER RUNOFF DRAINS TO THE GRASS YARD AND PLANTING BEDS WITHOUT CONCENTRATED FLOW.
- 6. THE EXISTING ROOF GUTTERS ON THE TERRACE-SIDE OF THE HOUSE CAPTURE 888 SQUARE FEET OF ROOF AREA AND THEN CONNECT TO TWO DOWNSPOUTS THAT CURRENTLY DISCHARGE ONTO THE TERRACE. THESE TWO DOWNSPOUTS WILL BE CONNECTED VIA 6 INCH HDPE PIPES TO A SUB-SURFACE STORM DRAINAGE RETENTION/DETENTION BASIN
- 7. THE EXISTING BLUESTONE WALKWAY WITH A NET AREA OF 54 SQUARE FEET ALONG THE SIDE OF THE GARAGE DISCHARGES STORMWATER RUNOFF INTO THE PACHYSANDRA BED, WHICH HAS CAUSED EROSION. A NEW STONE CURB WILL BE BUILT ALONG THE WALKWAY TO DIRECT RUNOFF TO A NEW CATCH BASIN. THIS CATCH BASIN WILL CONNECT VIA 6 INCH HDPE PIPES TO THE SUB-SURFACE STORM RETENTION/DETENTION BASIN.
- 8. THE NET SITE COVERAGE BEING ADDED TO THE SITE IS 941 SQUARE FEET AND THE NET AREA FROM WHICH STORMWATER RUNOFF IS PROPOSED TO BE PICKED UP IS 942 SQUARE FEET.
- 9. THE CALCULATED VOLUME OF STORMWATER RUNOFF TO BE COLLECTED IS 687.66 CUBIC FEET.

#### 942 SF. X 0.73 FEET = 687.66 CUBIC FEET

- 10. THE SUBSURFACE STORMWATER DETENTION/RETENTION SYSTEM CONSISTS OF FOUR CULTEC RECHARGER 330XLHD CHAMBERS SET ON 12 INCHES OF GRAVEL WITH A 12 INCH MINIMUM SURROUND AND THEN BACKFILLED WITH GRAVEL TO COVER THE CHAMBERS. PRIOR TO THE GRAVEL AND CHAMBERS BEING PLACED, THE EXCAVATION IS LINED WITH SOIL FABRIC, WHICH IS THEN PULLED OVER THE GRAVEL BED TO PROTECT SEDIMENT FROM SILTING IN THE VOIDS IN THE GRAVEL.
- 11. EACH 330XLHD CULTEC CHAMBER HAS A CAPACITY OF 7.46 CF/FT. THE CHAMBERS ARE 7 FEET LONG, WHICH CALCULATES TO 52.22 CUBIC FEET PER CHAMBER. THE FOUR (4) CHAMBERS PROPOSED HAVE A TOTAL STORAGE CAPACITY OF 208.88 CUBIC FEET.

12. THE GRAVEL BASE AND SURROUND HAS A TOTAL VOLUME OF 699.6 CUBIC FEET, WHICH HAS BEEN CALCULATED BY MULTIPLYING THE WIDTH OF THE BED BY THE LENGTH OF THE BED BY THE HEIGHT OF THE GRAVEL TO THE INVERT ELEVATION OF THE CHAMBERS IN THE GRAVEL.

#### 11.66 FT. X 20 FT. X 3 FT. = 699.6 CUBIC FEET

13. SUBTRACTING THE CULTEC CHAMBERS FROM THE VOLUME WITHIN THE GRAVEL BED RESULTS IN A GROSS VOLUME OF THE GRAVEL OF 490.72 CUBIC FEET. THE GRAVEL VOIDS EQUAL 40% OF THE GROSS VOLUME WITH A NET VOLUME CAPACITY OF 196.28 CUBIC FEET.

#### 490.72 CF. X 0.40 = 196.28 CUBIC FEET

14. ADDING THE STORAGE CAPACITY OF THE CULTEC CHAMBERS AND THE GRAVEL BED RESULTS IN A TOTAL OF 405.16 CUBIC FEET OF STORAGE CAPACITY.

#### 208.88 CF. + 196.28 CF. = 405.16 CUBIC FEET

15. THE ANTICIPATED PERCOLATION RATE FOR THIS SITE IS 10 MIN/INCH, BASED ON OBSERVED AT OTHER SIMILAR LOCATIONS IN THE AREA. DURING THE EXCAVATION FOR THE CULTEC UNITS, A PERC, TEST WILL BE PERFORMED, THE NUMBERS CONFIRMED, AND THE SIZE OF THE SYSTEM ADJUSTED ACCORDINGLY.

16. FOR THE DESIGN OF THIS SYSTEM A PERCOLATION RATE OF 30 MIN/INCH WAS USED TO PROVIDE A FACTOR OF SAFETY. THIS IS 2 INCHES OF PERC. PER HOUR. DURING A 24-HOUR STORM EVENT, THE BASE OF THE BED WILL ACCEPT 48 INCHES (2 X 24), OR 4 FEET, OF STORMWATER WITH A BED DIMENSION OF 11.66 BY 20 FEET, THERE IS A SURFACE AREA OF 233.2 SQUARE FEET. MULTIPLYING THIS BY THE 4 FEET RESULTS IN A TOTAL VOLUME OF 932.8 CUBIC FEET. 233.2 SF. X 4 FEET = 932.8 CUBIC FEET

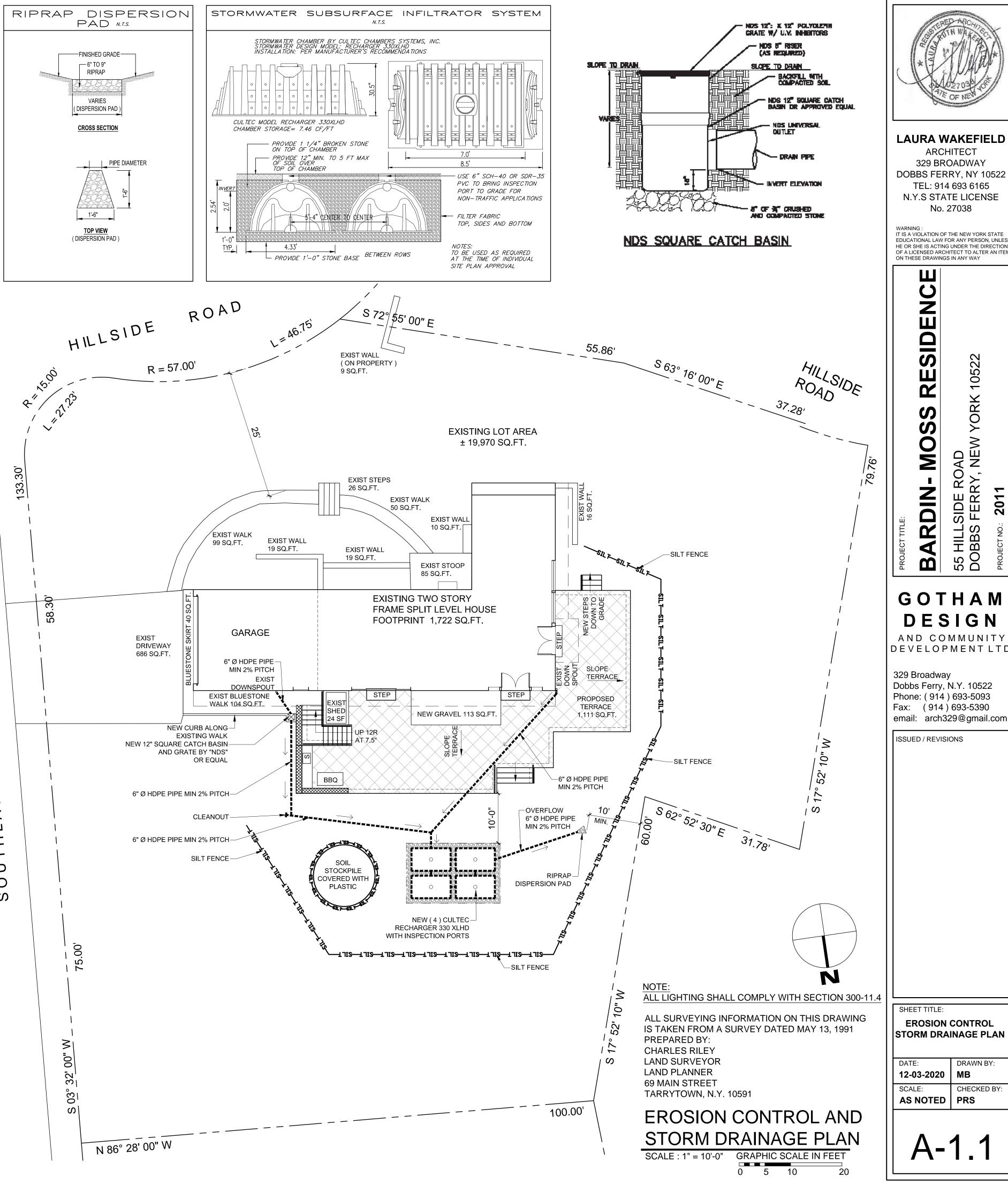
17. IN A 24-HOUR 100-YEAR STORM EVENT, THIS SYSTEM CAN CAPTURE 932.8 CUBIC FEET, PLUS THE VOLUME OF THE SYSTEM, WHICH IS 405.16 CUBIC FEET, FOR A TOTAL OF 1,337.96 CUBIC FEET. 932.8 CF. + 405.16 CF. = 1,337.96 CUBIC FEET

18. THE PROPOSED SYSTEM PROVIDES MORE THAN TWICE THE CAPACITY REQUIRED:

#### 674.52 CF. REQUIRED < 1,337.96 CF. PROVIDED

19. AN OVERFLOW FROM THE CULTEC ARRAY HAS ALSO BEEN PROVIDED, WITH A 6 INCH HDPE PIPE DISCHARGING TO AN AREA OF RIPRAP TO MITIGATE EROSION AND SEDIMENTATION.

20. THE CULTEC UNITS INCLUDE ACCESS PORTS TO ALLOW INSPECTION AND MAINTENANCE OF THE CHAMBERS. THE ENTIRE GRAVEL BED WILL BE WRAPPED WITH SOIL FABRIC TO PREVENT THE VOIDS IN THE GRAVEL FROM BEING ADVERSELY AFFECTED BY SILTATION.



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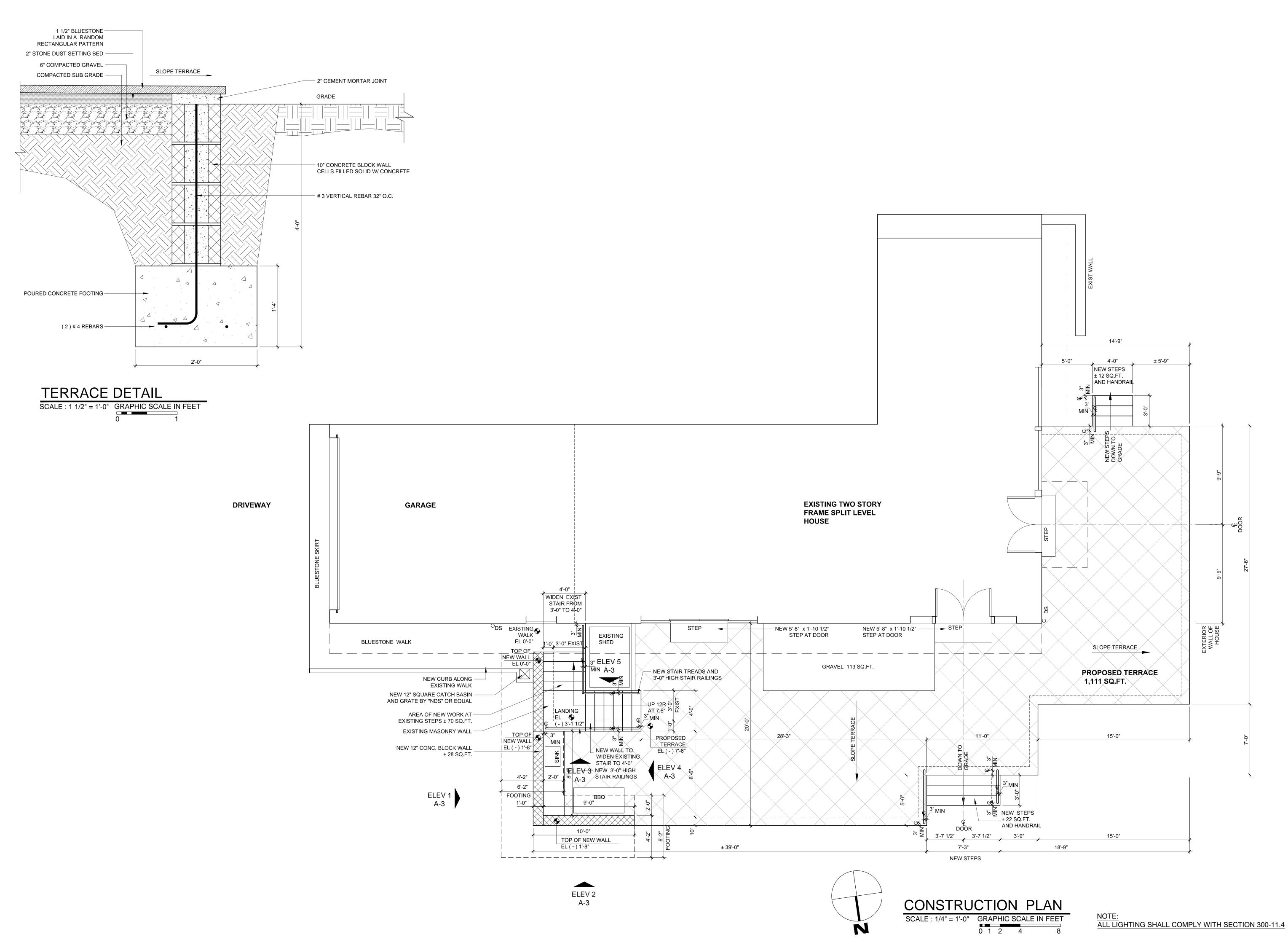
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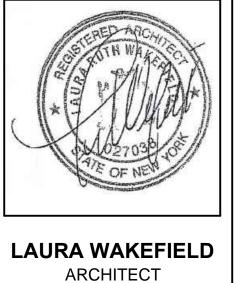
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ISSUED / REVISIONS

**EROSION CONTROL** STORM DRAINAGE PLAN

DRAWN BY: 12-03-2020 MB CHECKED BY: AS NOTED | PRS





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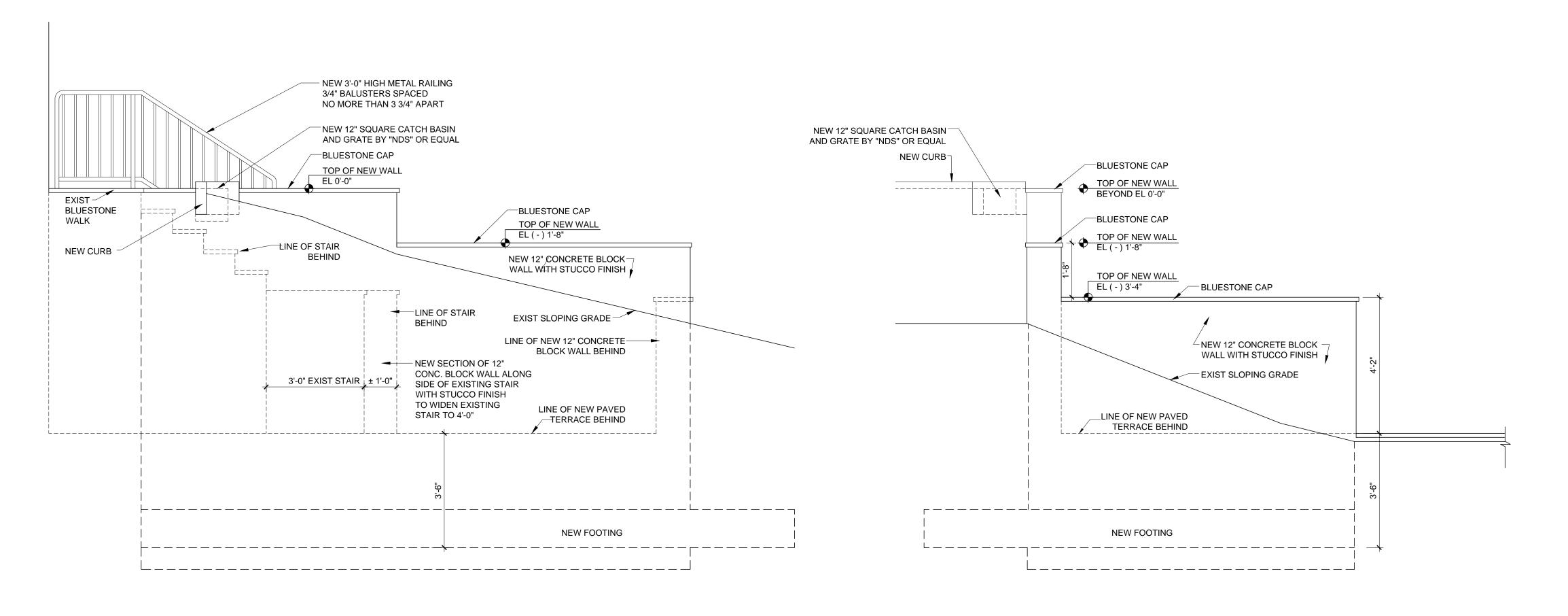
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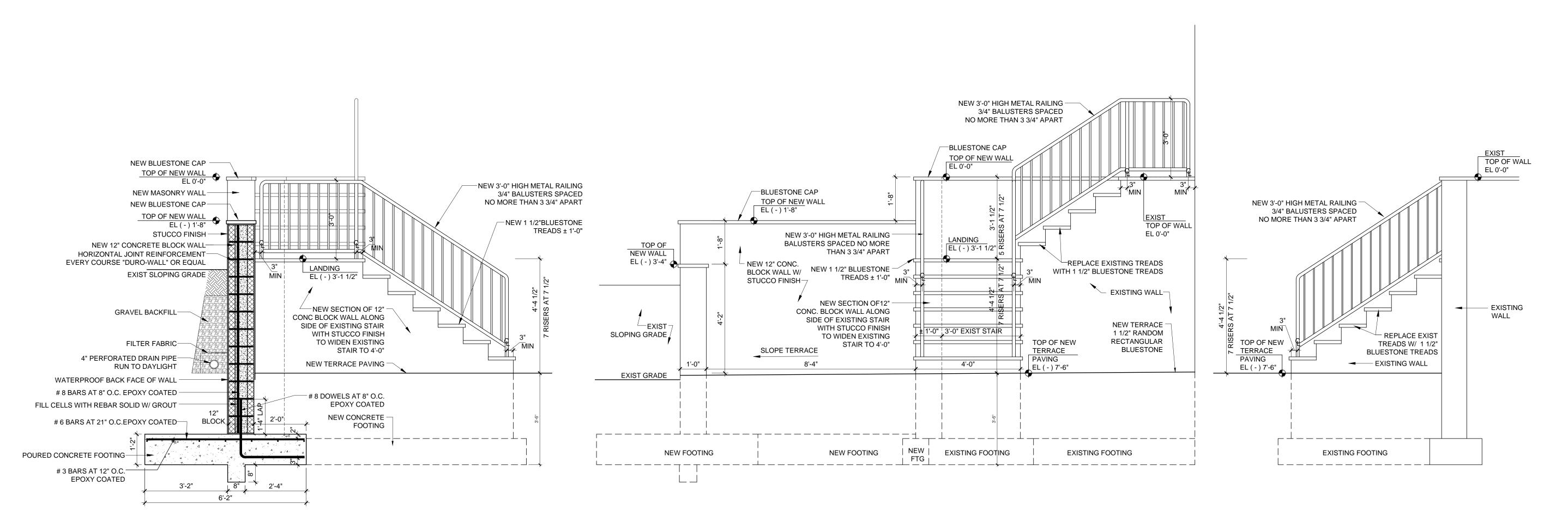
ISSUED / REVISIONS REVISED 12-03-2020 ADDED OUTDOOR KITCHEN

SHEET TITLE: **CONSTRUCTION PLAN** 

DRAWN BY: 11-24-2020 MB CHECKED BY: AS NOTED PRS



## ELEVATION 1

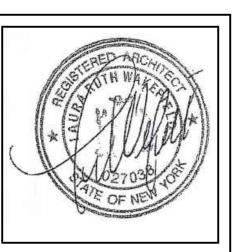


SECTION ELEVATION 3 ELEVATION 4 ELEVATION 5

SCALE: 1/2" = 1'-0" GRAPHIC SCALE IN FEET

ELEVATION 2

NOTE:
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SHEET TITLE:

ELEVATIONS

DATE: DRAWN BY:

12-03-2020 MB

SCALE: CHECKED BY:

AS NOTED PRS

A-3