

LEGEND	
DRAIN MANHOLE	
CATCH BASIN	
FLARED END SECTION	
DRAIN LINE	
10' CONTOUR	
2' CONTOUR	

ALIGNMENT - (7)

BR. 32673/Pg. 1

CHERRY VALLEY WATER DISTRICT

DIG SAFE

IRON ROD FOUND & HELD

1 2 3 4 5 6 7 8 9 10 11

B10 B11

Path

DIG SAFE

A circular sign with a diagonal slash through it, indicating prohibition. Inside the circle are icons of a shovel, a shovel, and a shovel, representing digging. The sign is white with a black border and text.

MASS. HIGHWAY  
BOUND FOUND

1. ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE REGULATIONS AND STANDARDS INCLUDING THE TOWN OF LEICESTER, MDOT, MADEP, MUTCD, AND ASHTO.
2. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR CONDITIONS AT THE SITE. THESE PLANS, PREPARED BY ALLEN & MAJOR ASSOCIATES DO NOT EXTEND TO OR INCLUDE SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR THEIR EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK, OR THE OWNER'S EMPLOYEES, CUSTOMERS, OR THE GENERAL PUBLIC. THE SEAL OF THE ENGINEER AS INCLUDED IN THE PLAN SET DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PROVIDE THE APPROPRIATE SAFETY SYSTEMS WHICH MAY BE REQUIRED BY THE
3. ALL ELEVATIONS REFER TO NAVD 88.
4. PIPE DIMENSIONS ARE MEASURED FROM THE INSIDE FACE OF THE STRUCTURE.
5. THE INFORMATION SHOWN ON THIS PLAN IS THE SOLE PROPERTY OF ALLEN & MAJOR ASSOCIATES, INC. ITS INTENDED USE IS TO PROVIDE INFORMATION, ANY ALTERATION, MISUSE, OR RECALCULATION OF INFORMATION DATA WITHOUT THE EXPRESSED, WRITTEN CONSENT OF ALLEN & MAJOR ASSOCIATES, INC. IS STRICTLY PROHIBITED.
6. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES SERVING THE STRUCTURE. UTILITIES ARE TO BE REMOVED TO THE RIGHT-OF-WAY.
7. ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.
8. EXISTING AND PROPOSED GRADE CONTOUR INTERVALS SHOWN AT 2 FOOT
9. ROOF DRAINS SHALL CONNECT TO NEAREST DRAIN STRUCTURE. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS.
10. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
11. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUDED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
12. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "DRAIN".
13. THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL N.P.D.E.S. PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
14. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
15. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
16. ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FIBER TO ALL SLOPES 3H:1V OR STEEPER. CONTRACTOR SHALL GRASS DISTURBED AREAS IN ACCORDANCE WITH COUNTY SPECIFICATIONS UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
17. ALL CATCH BASINS ON-SITE SHALL BE EQUIPPED WITH HOODS AND 4 FOOT SUMPS AND SHALL CONFORM TO LOCAL DRAINAGE REQUIREMENTS.
18. A MINIMUM OF 18" VERTICAL CLEARANCE SHALL BE MAINTAINED WHERE WATER SERVICES CROSS STORM DRAIN LINES, WATER SERVICES SHALL BE ENCASED IN CONCRETE REGARDLESS OF CLEARANCE WHEN PASSING BELOW STORM DRAIN LINES. ENCASEMENT SHALL EXTEND ALONG WATER SERVICE A MINIMUM DISTANCE OF TEN FEET FROM THE CROSSING POINT OF THE OTHER PIPE AS MEASURED NORMALLY FROM ALL POINTS ALONG THE PIPE.
19. ALL DRAINAGE SHALL CONFORM TO LOCAL AND MADEP REQUIREMENTS.
20. PRIOR TO CONSTRUCTION OF IMPERVIOUS AREAS, ALL DRAINAGE STRUCTURES, PIPES AND BASINS SHALL BE INSTALLED AND INSPECTED FOR PROPER FUNCTION.
21. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THE PROJECT WORK SCOPE PRIOR TO THE START OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DRAWINGS, SPECIFICATIONS, OR RELATIVE CODES, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND/OR ARCHITECT PRIOR TO START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE ENGINEER AND/OR ARCHITECT SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK AND/OR DESIGN INTENT OF THE DRAWINGS AND IN FULL COMPLIANCE WITH LOCAL REGULATIONS AND CODES.
22. THE DESIGN ENGINEER WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS, AND/OR THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/OR FOLLOW THE GUIDANCE OF THE DESIGN ENGINEER WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE DISCOVERED OR ALLEGED.

( IN FEET )

1 inch = 80 ft.

PROFESSIONAL ENGINEER FOR  
ALLEN & MAJOR ASSOCIATES, INC.

APPLICANT:  
MKEP 770 LLC  
265 SUNRISE HIGHWAY, SUITE 1368  
ROCKVILLE CENTER, NY 11570

PROJECT NO.	2889-01	DATE:	04-20-21
SCALE:	1" = 80'	DWG. :	C:2889-01_Grading & Drainage
DESIGNED BY:	SM	CHECKED BY:	MAM

PREPARED BY:



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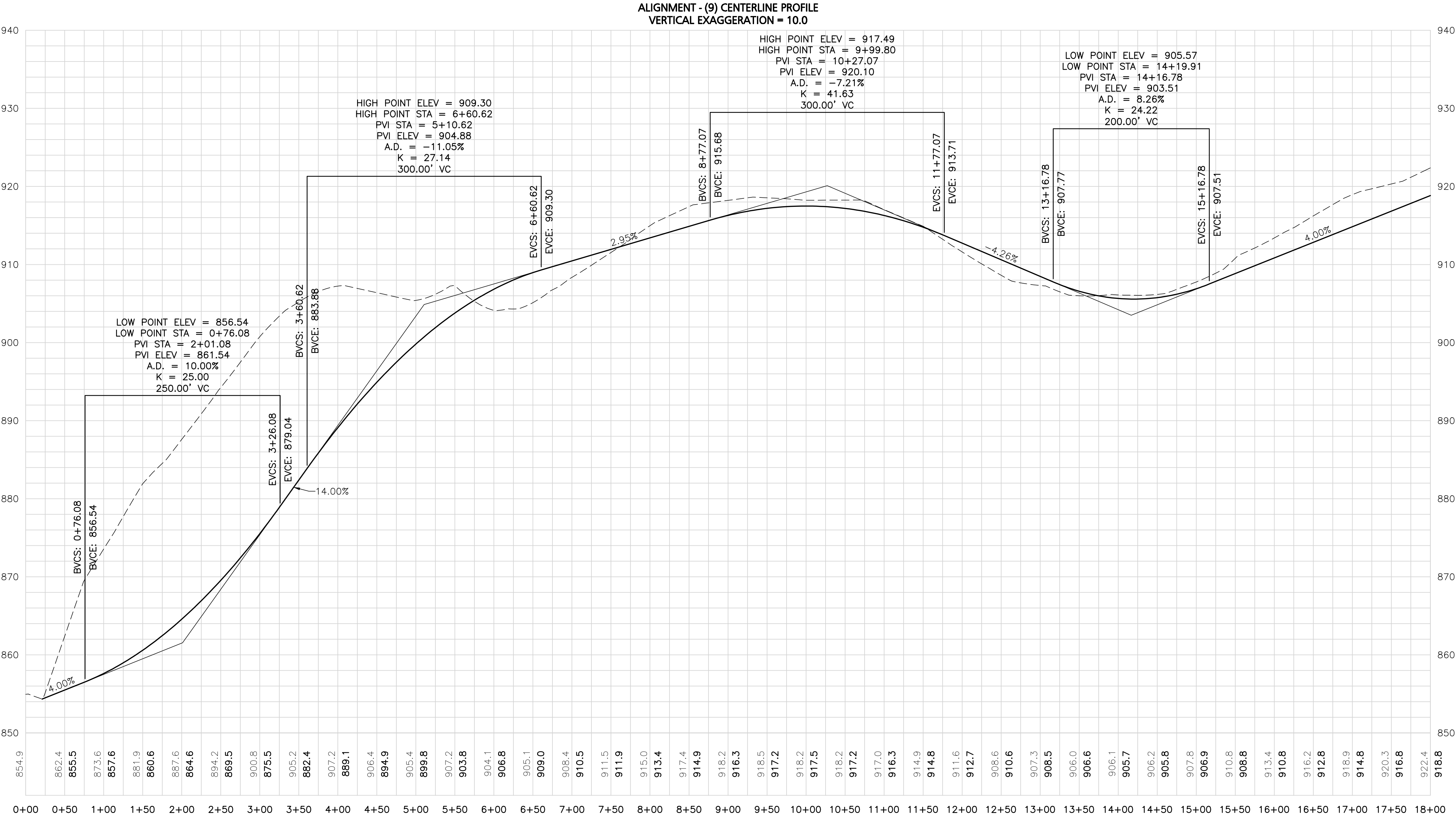
DRAWING TITLE:	SHEET No.
GRADING & DRAINAGE PLAN	C-102

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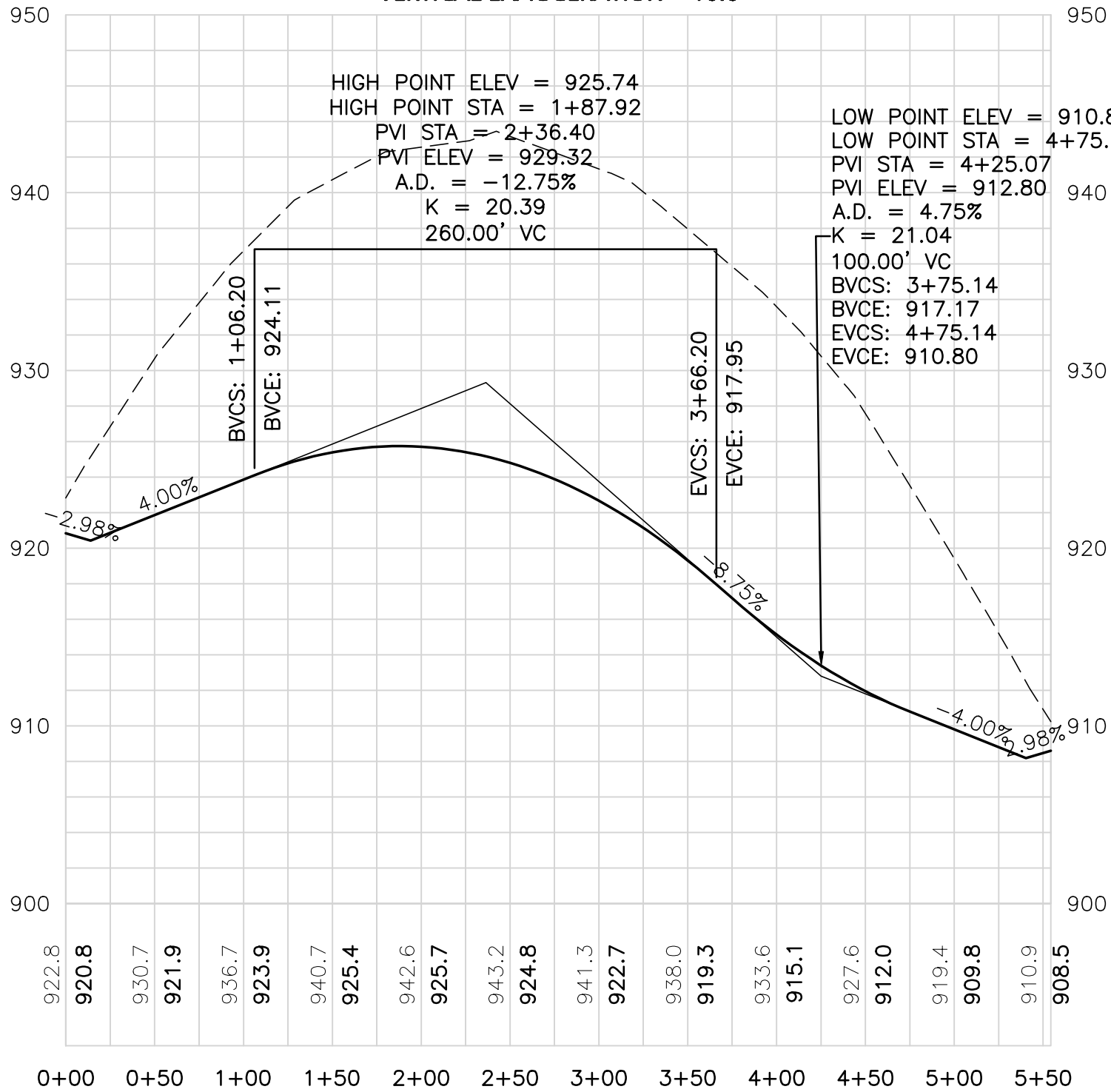


GENERAL NOTES

1. REFER TO SHEET C-102 FOR ADDITIONAL INFORMATION
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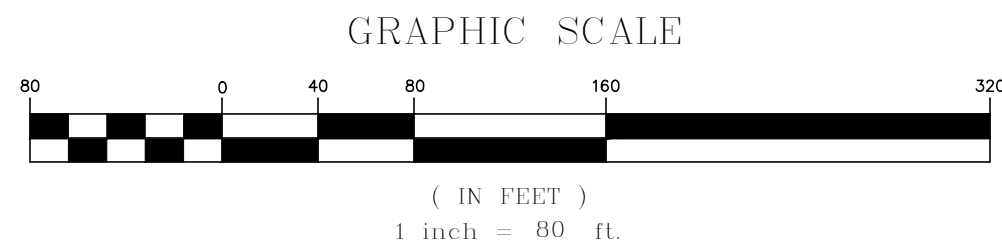
ALIGNMENT - (8) CENTERLINE PROFILE  
VERTICAL EXAGGERATION = 10.0



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DRAFT  
ISSUED FOR REVIEW  
JUNE 9, 2021

PROFESSIONAL ENGINEER FOR  
ALLEN & MAJOR ASSOCIATES, INC.

REV	DATE	DESCRIPTION
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APPLICANT:  
MKEP 770 LLC  
265 SUNRISE HIGHWAY, SUITE 1368  
ROCKVILLE CENTER, NY 11570

PROJECT:  
SKYVIEW ESTATES  
RESIDENTIAL SUBDIVISION  
MAIN STREET  
LEICESTER, MA

PROJECT NO. 2889-01 DATE: 04-20-21

SCALE: 1" = 80' DWG. : C2889-01\_Grading & Drainage

DESIGNED BY: SM CHECKED BY: MAM

PREPARED BY:

**ALLEN & MAJOR ASSOCIATES, INC.**  
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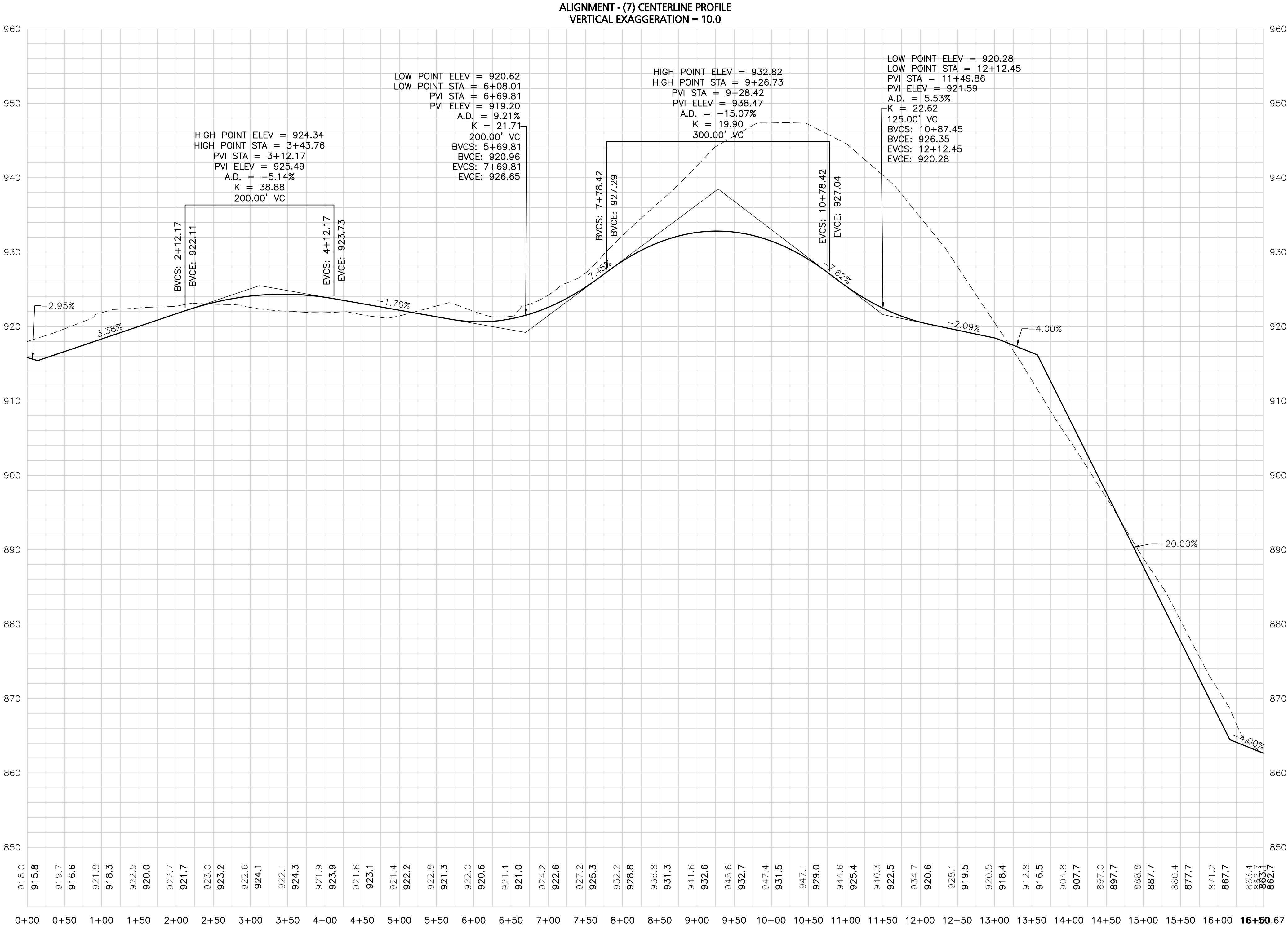
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DRAWING TITLE: ALIGNMENT (6) PROFILE  
SHEET No. C-201

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**DRAFT**  
**ISSUED FOR REVIEW**  
JUNE 9, 2021

PROFESSIONAL ENGINEER FOR  
ALLEN & MAJOR ASSOCIATES, INC.

REV	DATE	DESCRIPTION
1	05-18-21	MISC. REVISIONS PER TOWN COMMENTS

APPLICANT:  
**MKEP 770 LLC**  
265 SUNRISE HIGHWAY, SUITE 1368  
ROCKVILLE CENTER, NY 11570

PROJECT:  
**SKYVIEW ESTATES**  
**RESIDENTIAL SUBDIVISION**  
MAIN STREET  
LEICESTER, MA

PROJECT NO. 2889-01 DATE: 04-20-21

SCALE: 1" = 80' DWG. : C2889-01\_Grading & Drainage

DESIGNED BY: SM CHECKED BY: MAM

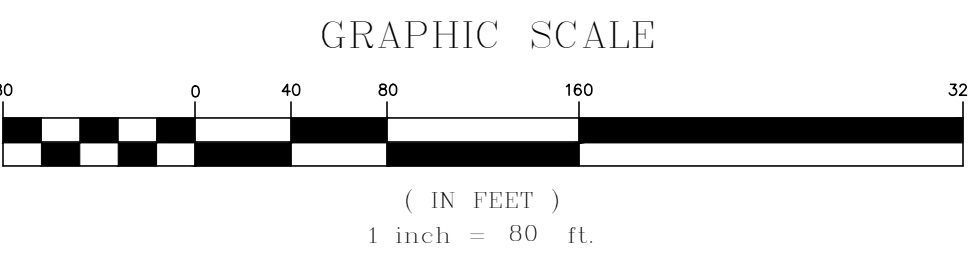
PREPARED BY:  
**ALLEN & MAJOR ASSOCIATES, INC.**  
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environmental consulting • landscape architecture  
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DRAWING TITLE: **ALIGNMENTS (7) & (8) PROFILES**  
SHEET No. **C-202**

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## 2899-01 - Proposed HydroCAD\_alt

Prepared by Allen & Major Associates, Inc.

HydroCAD® 10.10-6a s/n 02881 © 2020 HydroCAD Software Solutions LLC

Type III 24-hr 100-year Rainfall=8.72"

Printed 8/30/2021

### Pond 1P: (new Pond) - Chamber Wizard Field A

#### Chamber Model = CMP Round 84 (Round Corrugated Metal Pipe)

Effective Size= 84.0"W x 84.0"H => 38.48 sf x 20.00'L = 769.7 cf

Overall Size= 84.0"W x 84.0"H x 20.00'L

84.0" Wide + 36.0" Spacing = 120.0" C-C Row Spacing

7 Chambers/Row x 20.00' Long + 7.00' Header x 2 = 154.00' Row Length + 12.0" End Stone x 2 = 156.00' Base Length

9 Rows x 84.0" Wide + 36.0" Spacing x 8 + 12.0" Side Stone x 2 = 89.00' Base Width

6.0" Stone Base + 84.0" Chamber Height + 6.0" Stone Cover = 8.00' Field Height

63 Chambers x 769.7 cf + 87.00' Header x 38.48 sf x 2 = 55,186.8 cf Chamber Storage

111,072.0 cf Field - 55,186.8 cf Chambers = 55,885.2 cf Stone x 0.0% Voids = 0.0 cf Stone Storage

Chamber Storage = 55,186.8 cf = 1.267 af

Overall Storage Efficiency = 49.7%

Overall System Size = 156.00' x 89.00' x 8.00'

63 Chambers

4,113.8 cy Field

2,069.8 cy Stone

