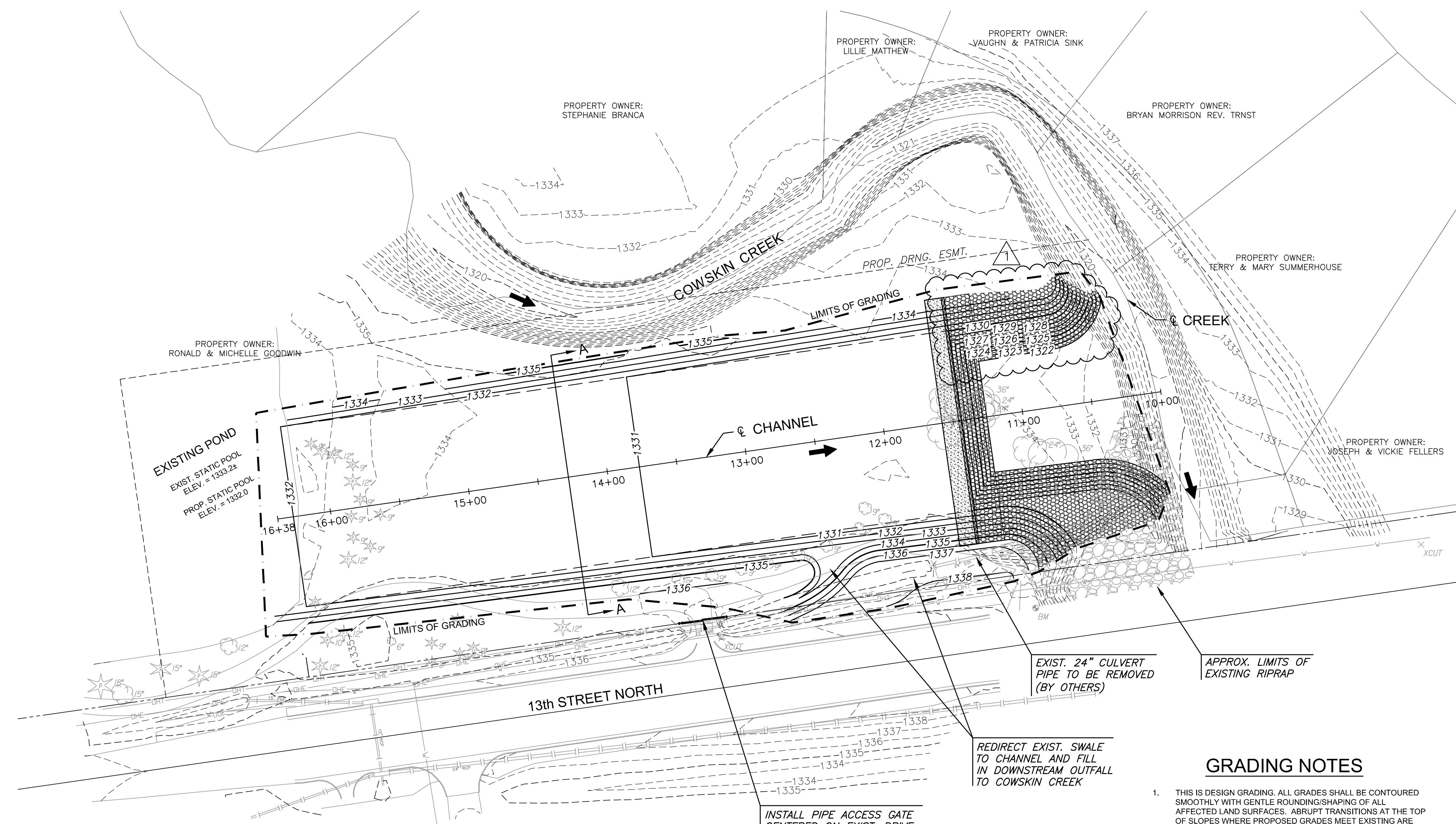


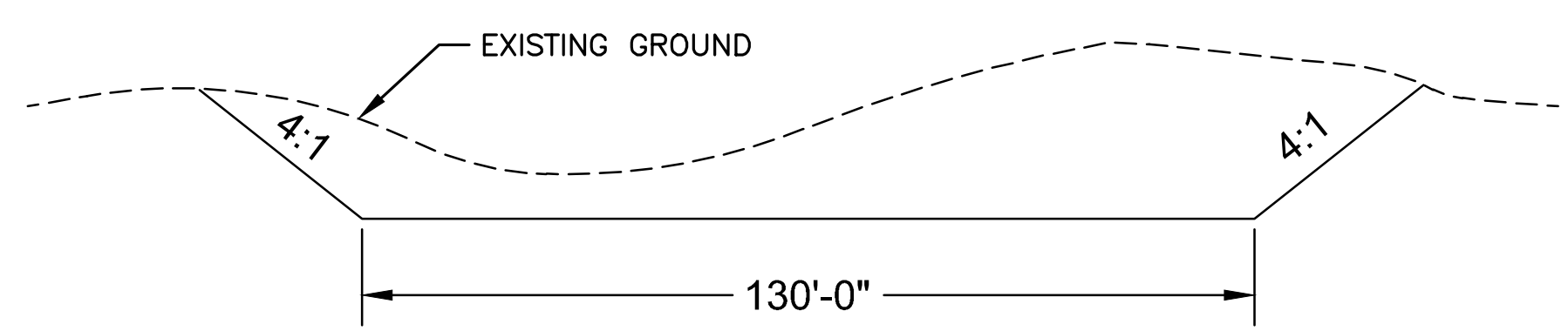
J:\PROJECTS\2016\1501010491\_COW\_13TH STREET AT COWSKIN\_150491\_CAD\SHOTS\05\_CIVIL\GRD\15491GRD1.DWG  
 PLOTTED: Wednesday, December 11, 2019 @ 01:18PM

**STORM WATER SEWER PLAN FOR  
 COWSKIN CREEK AT 13TH ST. N.  
 WICHITA, KANSAS**



EXISTING POND  
 EXIST. STATIC POOL  
 ELEV. = 1333.2±  
 PROP. STATIC POOL  
 ELEV. = 1332.0

**CHANNEL TYPICAL SECTION**  
 NTS - LOOKING UP STA.



INSTALL PIPE ACCESS GATE  
 CENTERED ON EXIST. DRIVE  
 (SEE DETAILS ON SHEET 05)

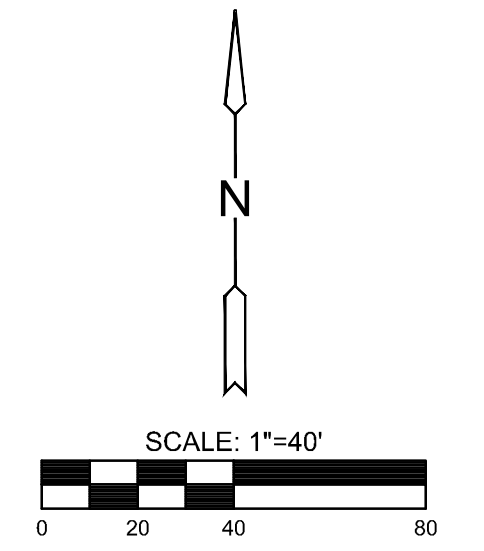
REDIRECT EXIST. SWALE  
 TO CHANNEL AND FILL  
 IN DOWNSTREAM OUTFALL  
 TO COWSKIN CREEK

EXIST. 24" CULVERT  
 PIPE TO BE REMOVED  
 (BY OTHERS)

APPROX. LIMITS OF  
 EXISTING RIPRAP

**GRADING NOTES**

- THIS IS DESIGN GRADING. ALL GRADES SHALL BE CONTOURED SMOOTHLY WITH GENTLE ROUNDING/SHAPING OF ALL AFFECTED LAND SURFACES. ABRUPT TRANSITIONS AT THE TOP OF SLOPES WHERE PROPOSED GRADES MEET EXISTING ARE NOT ACCEPTABLE. SURVEY STAKES FOR POND GRADING ARE FOR GENERAL GRADING PURPOSES ONLY. NOT ALL SLOPES ARE CONSTANT AND THEREFORE THE GRADING PLANS SHALL BE REFERRED TO FOR FINAL GRADE SHAPING. ALL BERMS & POND EDGES SHALL BE FINAL GRADED/SHAPED WITH A TRACK DOZER, NOT A BLADE. THE GRADING SHALL BE APPROVED BY THE ENGINEER PRIOR TO THE ADDITION OF THE TOPSOIL LAYER.
- A 6" LAYER OF TOPSOIL SHALL BE STRIPPED IN ALL AREAS OF CUT AND SAVED BACK FOR REPLACEMENT IN AREAS WHERE PERMANENT SEEDING IS REQUIRED. ANY EXCESS TOPSOIL SHALL BE SEPARATELY STOCKPILED ON-SITE AT AN APPROVED LOCATION.
- TOPSOIL SHALL BE REPLACED AT A DEPTH OF 6" IN ALL DISTURBED AREAS. THE FINISHED GRADE SHOWN ON THE PLANS INDICATES THE SURFACE ELEVATION AFTER THE TOPSOIL LAYER HAS BEEN PLACED.
- AS THE PROJECT NEARS COMPLETION, THE CONTRACTOR SHALL RIP (SCARIFY) ALL HAUL ROADS WITH AN AGRICULTURAL IMPLEMENT INTENDED FOR SUCH PURPOSES TO A DEPTH OF 18". MULTIPLE PASSES MAY BE NECESSARY TO THOROUGHLY ALLEVIATE COMPACTION.
- CONTRACTOR TO REUSE EXISTING RIPRAP, IF POSSIBLE.
- SEE SHEET 11 FOR DEMOLITION AND SITE RESTORATION.



**EARTHWORK SUMMARY**

EXCAVATION	14,860 C.Y.
COMPACTED FILL (95%)	345 C.Y.
20% SHRINK/SWELL FACTOR ADDED	
EXCESS MATERIAL TO BE PLACED & COMPACTED ON SITE. LOCATION DETERMINED BY ENGINEER/OWNER'S DIRECTION	

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**GRADING PLAN**

PROJECT NO.	468-85055	
DATE	OCT. 2016	
SCALE	AS SHOWN	
DESIGNED	DRAWN	CHECKED
BLB	LES/DMU	BLB
NO.	REVISION	DATE
1	PER KDHE COMMENTS	01/17/19
0	ISSUED FOR CONST.	10/10/16