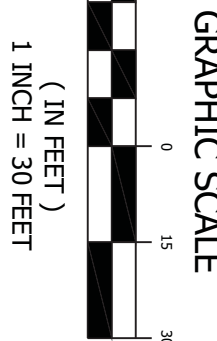


WETLAND CERTIFICATION:

FLOOD ZONE CERTIFICATION: NO PORTION OF THIS PROPERTY IS LOCATED WITHIN AN ESTABLISHED REGULATORY 100-YEAR FLOODPLAIN, AS DETERMINED BY THE NATIONAL FLOOD INSURANCE PROGRAM. FLOOD INSURANCE RATE MAP FOR COUNTY OF [COUNTY] AND INCORPORATES

MAP NUMBER: 05143C0065F



EXISTING	PROPOSED
●	IRON PIN/PIPE FOUND
⊕	IRON PIN SET
—	BENCHMARK
—	BOUNDARY LINE
—	RIGHT-OF-WAY LINE
—	EASEMENT LINE
—	BUILDING SETBACK LINE
—	CURB AND GUTTER

SPOT ELEVATION
 TOP OF CURB
 CUTTER
 TOP OF WALK
 FINISHED GRADE
 FLARED END SECTION
 UNDERPAVEMENT
 DRAINAGE SYSTEM
 DOWNED INLET WITH RISER
 CURB INLET
 SODDING
 100'-YEAR W.S.E
 FULL DEPTH AHEAD CLASS 7
 BACKFILL
 GRADED SWALE
 4" CURB INLET EXTENSION
 WEED BARRIER 6"-12"
 CONCRETE INPAP

10' x 10' x 10'
 TC
 6'
 TW
 FG

FINISHED GRADE AS INDICATED ON THESE
DRAWINGS ARE THE TOP OF FINISHED SURFACE, IE
TOP OF PAVEMENT OR TOP OF SOD FINISHED
ELEVATION

BUILDING FINISHED FLOOR ELEVATIONS (FFE)
THE TOP OF THE BUILDING FLOOR SLABS

THE GRADING CONTOURS AS PROVIDED ON THESE DRAWINGS IS TO CONVEY FINAL GRADING INTENT, AND ARE NOT EXACT

GENERAL:

- CONTRACTOR SHALL INSTALL/USE ALL REQUIRED EROSION CONTROL MEASURES TO COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS, ORDINANCES, AND REGULATIONS. CONTRACTOR SHALL COORDINATE WITH APPROPRIATE AGENCIES FOR ANY REQUIRED PERMITS AND ADJUSTMENT OF UTILITY LINES AFFECTED BY CUT AND FILL. AREAS TO BE GRADED SHALL BE CLEARED AND GRUBBED TO REMOVAL OF ALL VEGETATION, TREES, ROOTS, DEBRIS OR NOT LIMITED TO VEGETATION, TREES, ROOTS, DEBRIS OR OTHER MATERIALS THAT WOULD AFFECT THE STABILITY OF ALL MATERIALS EXPOSED TO THE STABILITY OF THE EROSION CONTROL MEASURES. THE FINAL DETERMINATION SHALL BE MADE BY THE ENGINEER. CONTRACTOR SHALL ENSURE THAT THE FILL MATERIAL BE FREE OF ORGANIC MATERIALS, FROZEN MATERIALS, WICK, HIGHLY COMPRESSIBLE MATERIALS, ROCKS, RUBBER-TYRE, BROKEN STUMPS, BUILDING DEBRIS, AND OTHER MATERIALS THAT WOULD HINDER/ AFFECT THE FILL MATERIAL. CONTRACTOR SHALL STOCK PILES AND MAINTAIN ALL GOOD FILLED AREAS TO BE GRADED AND NOT BE GRABED AND FILL OF FILL GRABING ALL CATCHES. / UNGRADED AREAS. CONTRACTOR SHALL PROOF ROLL SUBGRADE OF ALL AREAS TO BE GRADED TO A MINIMUM OF 1000 PSI. MATERIALS BE ANY SOFT AREAS SHALL BE REMOVED AND REPLACED WITH SELECT FILL AND COMPACTED AS NOTED IN THE PAYMENT SECTION SHOW ON THE DETAIL SHEET. ULTRA-FINE (HIPS) PIPE WHEN THE "HIPS" PIPE IS INDICATED, UNLESS OTHERWISE CALLED OUT. DESIGN OF UNDERGROUND STORM WATER SYSTEM IS BASED ON 100 YEAR RAINFALL RATE. CONTRACTOR SHALL PROVIDE FLOW PIPE OR PIPES AND MANHOLE RAINFALL COEFFICIENT OF 0.013 HAS BEEN ASSUMED FOR DESIGN PURPOSES. IF CONTRACTOR PROPOSES USE OF OTHER UNDERGROUND STORM WATER SYSTEM TO CONTRADICT APPROPRIATE PERFORMANCE. PRIOR TO INSTALLATION OF STORM OR SANITARY SEWER, CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING AND ENCLOSED. ALL CROSSINGS PRIOR CONSTRUCTION. THE OWNER AND ENGINEER OF ANY CROSSINGS PRIOR CONSTRUCTION.

PRE-CONSTRUCTION:

- PRIOR TO START OF SITE GRADING, EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE TO THE EROSION CONTROL PLAN. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, WEEDING, A MINIMUM SHALL INCLUDE ALL SILT MEASURES, TEMPORARY SEEDMENT POUNDS, TEMPORARY CONSTRUCTION ENTRANCE, AND ANY OTHER MEASURES NECESSARY TO ENSURE THAT SEDIMENT DOES NOT LEAVE THE SITE.
- PRIOR TO START OF SITE GRADING, CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANIES AND SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS TO DOING FOR THE LOCATION OF ALL UNDERGROUND UTILITY LINES THAT WILL BE AFFECTED BY THIS DEVELOPMENT. PLEASE ADVISE ALL AFFECTING UTILITIES DETECTED. PROVIDE A COPY OF THE DETECTED UTILITY LINES MAY NOT BE ACCURATE.
- THE CONSTRUCTION MEETING SHALL BE HELD ON SITE PRIOR TO START OF SITE GRADING. MEASURES SHALL BE INSTALLED PRIOR TO ANY SITE GRADING / CONSTRUCTION / DEMOLITION.

FLOOD ZONE CERTIFICATION:

ESTABLISHED REGULATORY 100-YEAR FLOODPLAIN, AS DETERMINED BY THE NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAP FOR WASHINGTON COUNTY ADVANCE AND INCORPORATED

NO.	DATE	BY	CKD	DESCRIPTION



CDE
CIVIL DESIGN
ENGINEERS, INC.
Springdale, Arkansas

CASALINI WAREHOUSE BUILDING
TONTITOWN, AR

GRADING PLAN

The seal is circular with a rope-like border. Inside the circle, the text "STATE OF ARKANSAS" is at the top, followed by three stars. Below the stars, it reads "REGISTERED PROFESSIONAL ENGINEER". At the bottom are three more stars. A vertical stamp on the left side says "F.E. No. 9358". A diagonal stamp across the seal reads "JULY 10 1967". A handwritten signature "W.D. Jones" is written over the seal.

DATE: 04-01-19

damage prevention
is no accident

800-482-8998
Arkansas One-Care

www.aikonicall.com

DATE	DRAWN

[illegible]

DESIGNED	CHIEF
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SCM E

PROJECT NO.

C3.0

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® 2019 by Autodesk, Inc. v2020

Monday, 04 / 1 / 2019

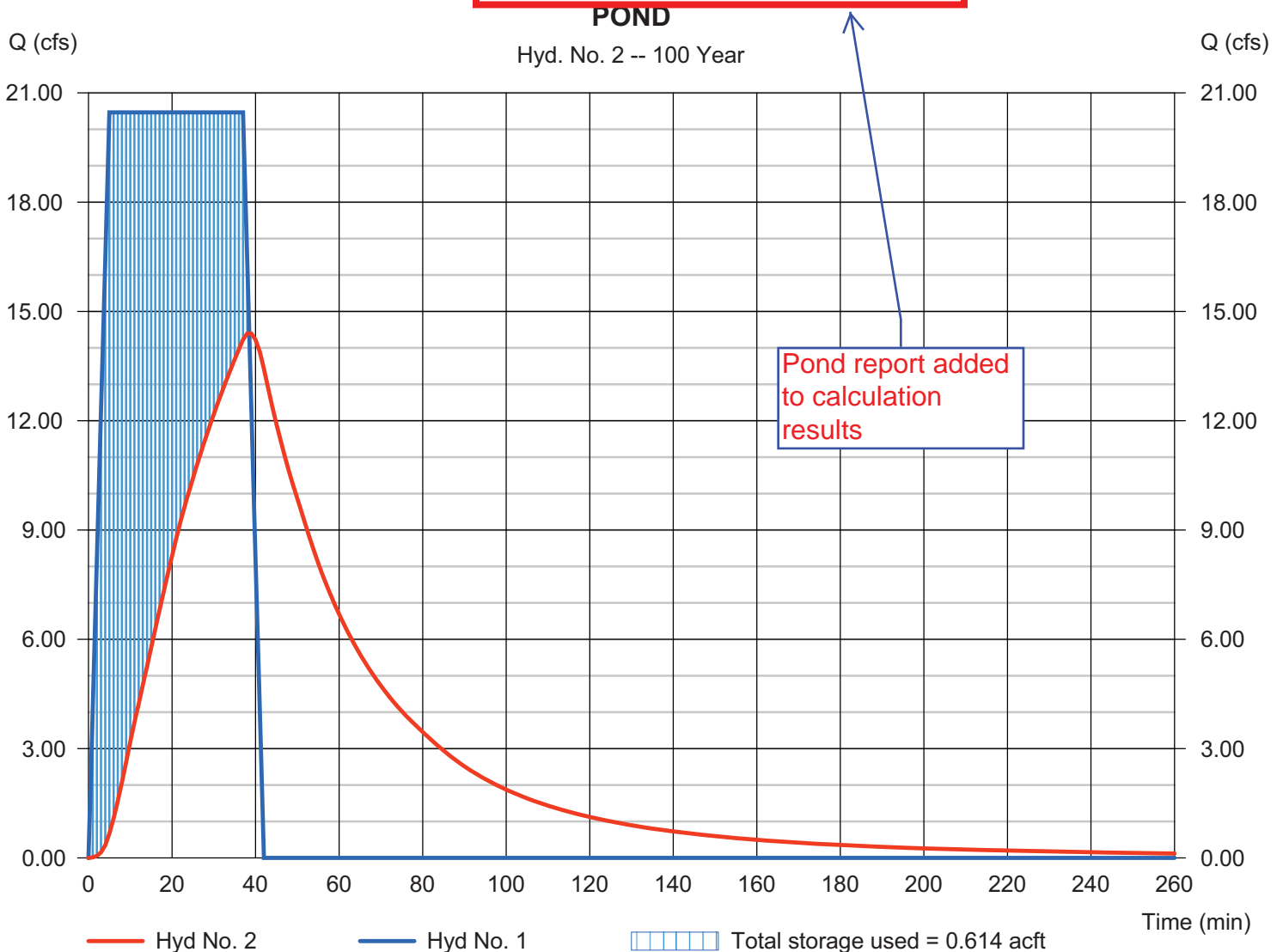
Hyd. No. 2

POND

Hydrograph type	= Reservoir	Peak discharge	= 14.40 cfs
Storm frequency	= 100 yrs	Time to peak	= 38 min
Time interval	= 1 min	Hyd. volume	= 1.043 acft
Inflow hyd. No.	= 1 - POST DEV	Max. Elevation	= 1287.66 ft
Reservoir name	= CASALINIPOND	Max. Storage	= 0.614 acft

Storage Indication method used.

Provide a "Pond Report" that Hydrograph generates that shows how the outlet structure that was modeled.



**TABLE OF CONTENTS
DRAINAGE STUDY
FOR THE CASALINI WAREHOUSE BUILDING
AT HENRI DE TONTI BLVD.
TONTITOWN, ARKANSAS**

CDE Project No. 1124

DESCRIPTION	PAGE
Introduction.....	1
Site Description.....	1
Pre and Post-Developed Runoff Control	1
Conclusion.. ..	2
Certification.. ..	2

APPENDICES

Appendix 1	Vicinity Map
Appendix 2	Flood Insurance Rate Map
Appendix 3	Pre and Post Development Drainage Maps
Appendix 4	Pre-Development Calculations
Appendix 5	Post-Development Calculations
Appendix 6	Reference Information

Provide grate inlet and pipe calculations. Include clogging factors and HGL as required per drainage manual. Include pond tailwater in HGL calcs.

We will provide this as part of the Grading permit Construction review after the storm pipe alignment has been finalized