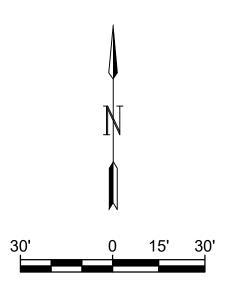
## A = 2.6 Acres $T_C = 35 \text{ min}$ CN=88 ARTHUR HEIGHTS PRIVACY FENCE BETWEEN Proposed Inlet BUILDINGS FL W 1392.50 REAR WALLS OF BUILDINGS TO BE Two-Family Two-Family **USED FOR** SCREENING Onsite Basin (To Detention) A = 2.2 AcresExisting Tc = 20 min Developed Tc = 15 min Two-Family Single Family CN=88 Ex. Imp. = 0% Dev. Imp. = 75% Two-Family Offsite East Basin (To Detention) A = 0.8 Acres Existing Tc = 20 min Developed Tc = 15 min PRIVACY FENCE BETWEEN CN=88 Two-Family BUILDINGS Ex. Imp. = 0% Dev. Imp. = 85% Two-Family - Proposed EXISTING TREES ALONG WEST AND SOUTHWEST PROPERTY LINES TO Proposed Inlet -PRESERVED FOR SCREENING WHEN POSSIBLE Onsite Basin (Undetained) A = 0.08 Acres Tc = 15 min CN=88 Impervious % = 0% RESERVE A Proposed Pond (gravel or grassed area) Static Pool = 1391.0 Q100 In = 28.1 cfs Q100 Out = 20.3 cfs 100 Year WS = 1393.7 YHJLHY 20" NATURAL GAS PIPELINE, WHEN WORK IS BEING DONE WITHIN 33 FEET OF PIPELINE, (620) 562-8020 53RD ST. N. — NE CORNER, SEC. 24, T26S, R1E NW CORNER, SEC. 24,-4" PE GAS LINE, KANSAS GAS SERVICE †Onsite Basin (Undetained) Southern Star Gas ====|| A = 0.09 Acres -Main, See Notes. Existing Tc = 15 min Developed Tc = 15 min CN=88 1386.98 (18") 45TH ST. N. \$86.48 (24") Ex. Imp. = 0%Dev. Imp. = 75% **PROPERTY** CONNECT TO SWS PROPOSED TO BE INSTALLED WITH ATER LINE **WOODLAWN PROJECT** SE CORNER, SEC. 24, SW CORNER, SEC. 24,-**CURB INLET** T26S, R1E 45TH ST. N. VICINITY MAP 1" = 2000'

## ARTHUR HEIGHTS ESTATES

BEL AIRE, SEDGWICK COUNTY, KANSAS

## **NOTES**

- 1. The on-site soils are Rosehill Silty Clay (Hydrologic Soil Group D).
- 2. Detention Pond shall provide detention for this parcel and adjacent
- 3. Pond will require a berm with a 1394.7 Top Elevation
- 4. Storage Building Roofs shall be designed to drain into the interior of the site and into the proposed storm sewer system.
- Hydroexcavation in coordination with Southern Star will be performed during the design process to determine best means for SWS crossings. A siphon will be incorporated if necessary to provide necessary vertical clearance.
- 6. Protection curb to be installed on east side of sidewalk where adjacent to pond.



## **Runoff Summary**

Design Storm	North Offsite Basin (cfs)	Onsite Undetained Developed (cfs)	Onsite Undetained Existing (cfs)	Onsite Detained Basin Developed (cfs)	Onsite Existing (cfs)	Offsite East Basin Existing (cfs)	Offsite East Basin Developed (cfs)	Total to Detention (cfs)	Pond Outflow Developed (cfs)	Existing Flow Woodlawn Inlet (cfs)	Total Site Developed (cfs)	Total Site Existing (cfs)
2 year	3.9	0.6	0.4	5.9	4.1	1.5	2.2	11.3	8.0	7.8	8.2	9.6
10 year	6.8	0.9	0.6	9.2	7.0	2.6	3.4	18.3	13.7	13.6	14.0	16.7
25 year	8.2	1.1	0.7	10.7	8.3	3.0	3.9	21.5	15.8	16.1	16.1	19.9
100 year	11.0	1.4	1.0	13.8	11.1	4.0	5.0	28.1	20.3	21.6	20.8	26.6

BENCHMARK:
CHISELED SQUARE WITH DIVOT ON THE CONCRETE
TRANSFORMER PAD IN LOT 2, BLOCK 1, NORTH
WOODLAWN SECOND ADDITION, SEDGWICK COUNTY,
KANSAS, 91' W. AND 72' S. OF THE CENTER OF
INTERSECTION OF 45TH ST. N. AND WOODLAWN
ELEVATION = 1393.91 (NAVD88, G18)



© 2018 GARVER, LLC
THIS DOCUMENT, ALONG WITH THE
IDEAS AND DESIGNS CONVEYED
HEREIN, SHALL BE CONSIDERED
INSTRUMENTS OF PROFESSIONAL
SERVICE AND ARE PROPERTY OF
GARVER, LLC. ANY USE,
REPRODUCTION, OR DISTRIBUTION
OF THIS DOCUMENT, ALONG WITH
THE IDEAS AND DESIGN CONTAINED
HEREIN, IS PROHIBITED UNLESS
AUTHORIZED IN WRITING BY
GARVER, LLC OR EXPLICITLY
ALLOWED IN THE GOVERNING
PROFESSIONAL SERVICES

8535 E. 21st Street Nort Suite 130



ВУ		
DESCRIPTION		
DATE		
REV.		



KANSAS
ARTHUR HEIGHTS PUI

JOB NO.: DATE: DESIGNED BY: DRAWN BY:

BAR IS ONE INCH ON ORIGINAL DRAWING

0 11"

IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER

SHEET NUMBER