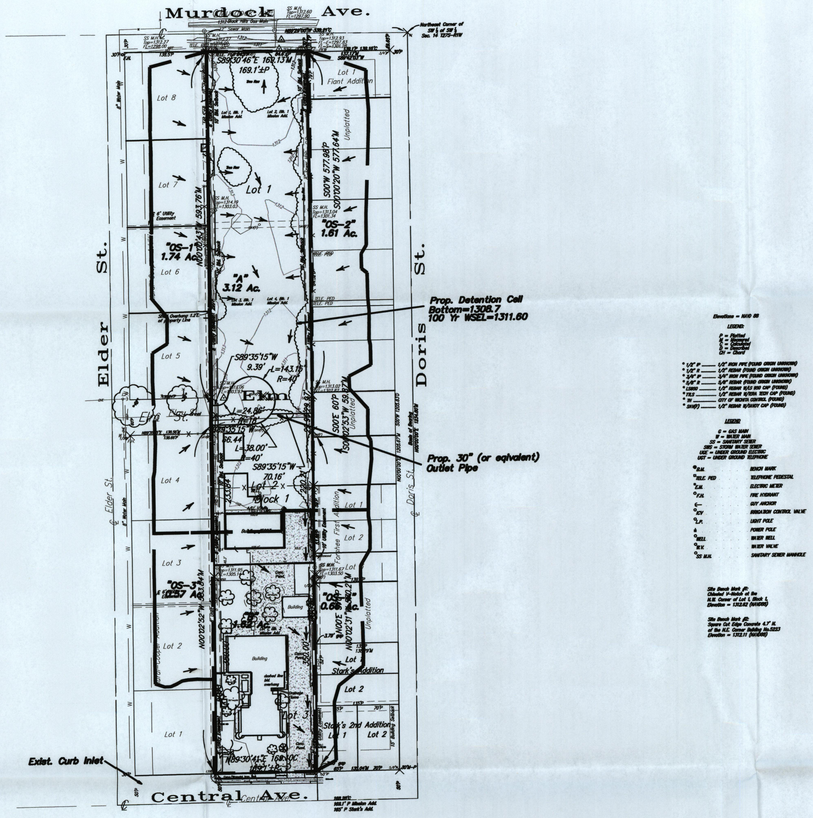


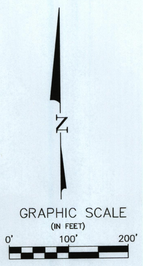



# NAHOLA ADDITION

## A TRACT IN SECTION 14-T27S-R1W
## WICHITA, SEDGWICK COUNTY, KANSAS

## EXISTING DRAINAGE PLAN

2013




*NOTES:*

1. *Cross-drainage agreements shall be required at the time of platting.*
2. *All outlets to Elder Street, Elm Street, Murdock and Central Avenue or other off site areas shall conform to City of Wichita water quality requirements.*
3. *Detailed site grading and final drainage plans to be designed by a licensed professional engineer at the time of building permit.*
4. *Storm sewer easements will be provided at the time of building permit only as needed to allow drainage to discharge across adjacent lots.*
5. *Any revised drainage plan must be approved by storm water engineer prior to building permits being issued.*
6. *Any storm water detention areas required may be revised when the final plans for the development are completed but the runoff amounts will be at or below the pre-development discharge rates. The filed final drainage report shall show discharge rates and stage/storage/discharge curves for any on-site detention areas.*
7. *The detention pond as shown is proposed. The final pond location, configuration, and design will need to be resolved at the time of building permit.*
8. *A drainage reserve or easement for the proposed detention cell will be dedicated by Separate Instrument during final site design.*

*CALCULATION NOTES:*

1. *Determination of Q's was made using the SCS method.*
2. *Curve Numbers weighted based on hydrologic soil groups.*

**Existing Conditions (24-Hour Storm)**

| Site | Area | CN | 1-Year | 2-Year | 5-Year | 10-Year | 25-Year | 100-Year |
|---|---|---|---|---|---|---|---|---|
| Area "OS-1" | 1.74 | 75.0 | 1.68 | 2.70 | 4.20 | 5.40 | 7.05 | 9.58 |
| Area "OS-2" | 1.61 | 75.0 | 1.55 | 2.49 | 3.89 | 4.99 | 6.52 | 8.67 |
| Area "OS-3" | 0.57 | 75.0 | 0.46 | 0.74 | 1.15 | 1.48 | 1.94 | 2.64 |
| Area "OS-4" | 0.66 | 75.0 | 0.46 | 0.74 | 1.15 | 1.48 | 1.94 | 2.64 |
| Area "A" | 3.12 | 69.0 | 0.62 | 1.15 | 2.00 | 2.70 | 3.70 | 5.28 |
| Area "B" | 1.62 | 92.0 | 5.12 | 6.72 | 8.85 | 10.44 | 12.54 | 15.67 |

**Proposed Conditions (24-Hour Storm)**

| Site | Area | CN | 1-Year | 2-Year | 5-Year | 10-Year | 25-Year | 100-Year |
|---|---|---|---|---|---|---|---|---|
| Area "OS-1" | 1.74 | 75.0 | 1.68 | 2.70 | 4.20 | 5.40 | 7.05 | 9.58 |
| Area "OS-2" | 1.61 | 75.0 | 1.55 | 2.49 | 3.89 | 4.99 | 6.52 | 8.67 |
| Area "OS-3" | 0.57 | 75.0 | 0.46 | 0.74 | 1.15 | 1.48 | 1.94 | 2.64 |
| Area "OS-4" | 0.66 | 75.0 | 0.46 | 0.74 | 1.15 | 1.48 | 1.94 | 2.64 |
| Area "A" | 3.12 | 85.0 | 3.93 | 5.58 | 7.86 | 9.58 | 11.89 | 15.36 |
| Area "B" | 1.62 | 92.0 | 5.12 | 6.72 | 8.85 | 10.44 | 12.54 | 15.67 |

**Stage-Storage Discharge Table**

| Stage (elev) | Storage (acre-ft) | Discharge (cfs) |
|---|---|---|
| 1308.70 | 0.000 | 0.000 |
| 1309.00 | 0.038 | 0.625 |
| 1310.00 | 0.180 | 9.485 |
| 1311.00 | 0.353 | 17.930 |
| 1312.00 | 0.556 | 28.890 |

## BENCH MARKS

SBM #1:
Chiseled V-Notch at the NW corner of Lot 1, Block 1

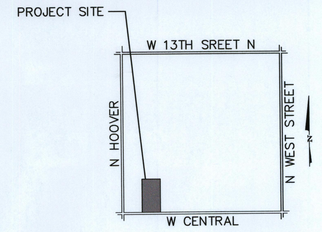
Elevation= 1312.62 (NAVD88)

SBM #2:
Square Cut on edge of concrete 4.7' N of the NE corner of building no. 5223

Elevation= 1312.11 (NAVD88)

*PROPERTY OWNER/ SUBDIVIDER:*

DONALDSON-LOESCHER LIVING TRUST
5226 W. CENTRAL AVENUE
WICHITA, KS 67212
(316) 978-9220




LOCATION MAP
No Scale

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