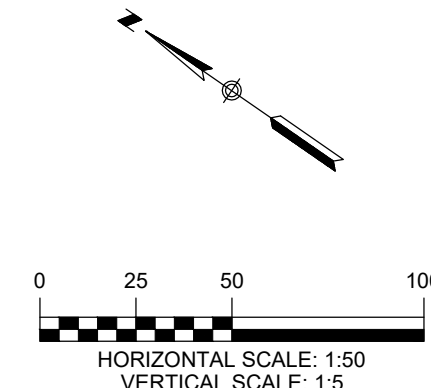
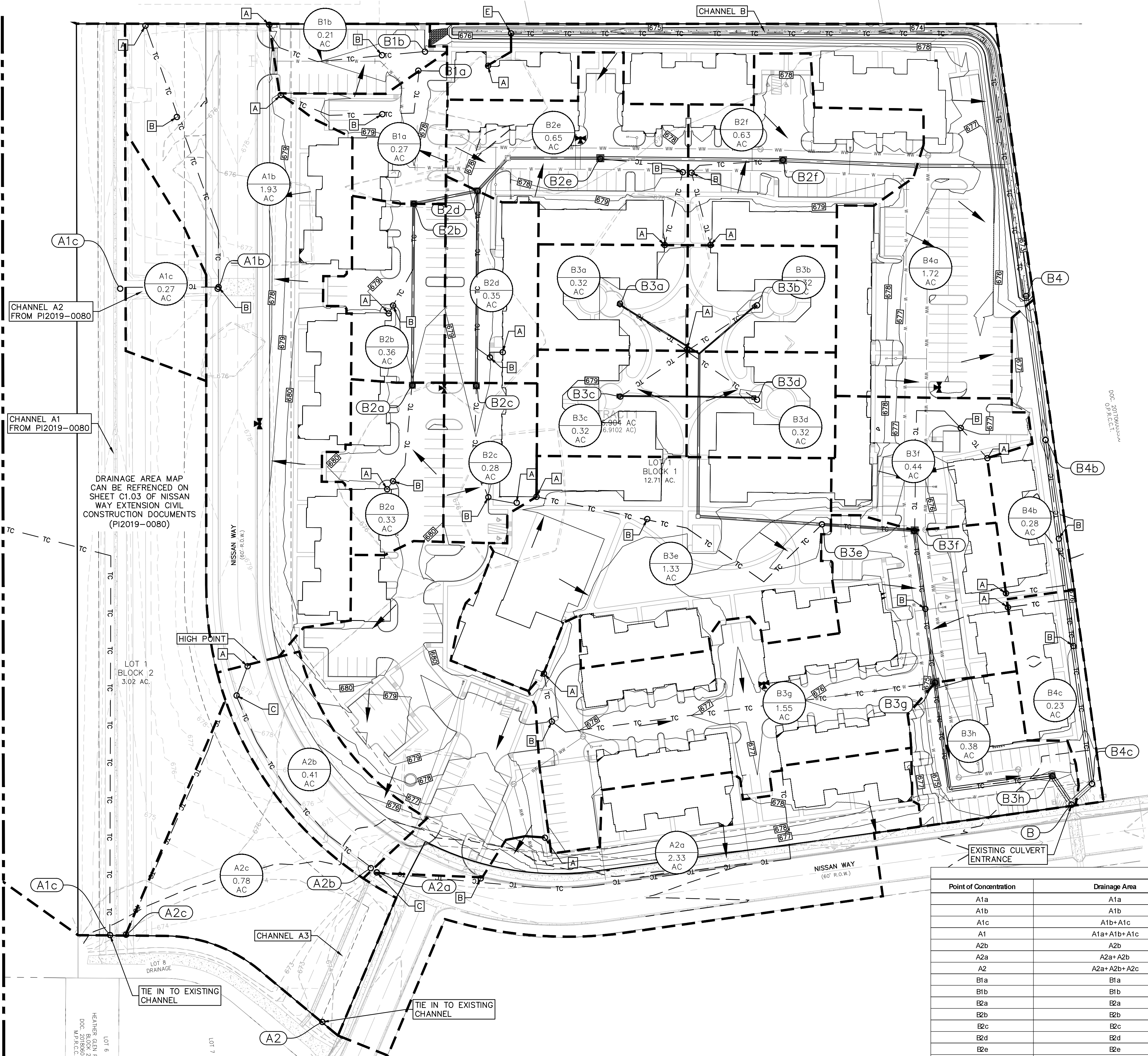


SEE SHEET C1.03 OF NISSAN WAY EXTENSION (PI2019-0080) FOR ULTIMATE DRAINAGE AREA MAP



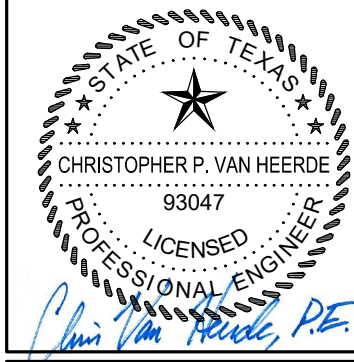
- LEGEND**
- 700 — EXISTING CONTOURS
 - 700 — PROPOSED CONTOURS
 - B.L. BUILDING SETBACK LINE
 - U.E. UTILITY EASEMENT
 - D.E. DRAINAGE EASEMENT
 - — DRAINAGE AREA
 - TC — TC — TIME OF CONCENTRATION
 - A-1 POINT OF CONCENTRATION
 - DRAINAGE FLOW DIRECTION
 - DA ACRES DRAINAGE AREA LABEL
 - A — = BEGIN SHEET FLOW
 - B — = TRANSITION FROM SHEET FLOW TO SHALLOW CONCENTRATED FLOW
 - C — = TRANSITION FROM SHALLOW CONCENTRATED FLOW TO CHANNEL FLOW
 - D — = TRANSITION FROM UNPAVED TO PAVED SHALLOW CONCENTRATED FLOW
 - E — = TRANSITION FROM SHEET FLOW TO CHANNEL FLOW

| Table 4 - Existing to Proposed Comparison | | | | | |
|---|---------------|----------------------|-----------------------|-----------------------|------------------------|
| Point of Concentration | Drainage Area | Q ₂ (cfs) | Q ₁₀ (cfs) | Q ₂₅ (cfs) | Q ₁₀₀ (cfs) |
| Ex B | Ex B | 7.06 | 17.53 | 23.80 | 31.72 |
| B | B | 16.15 | 31.54 | 40.34 | 51.35 |
| Proposed: Is Less Than or Equal to Existing | | NO | NO | NO | NO |

Table 2 - Proposed Conditions Hydrology Calculations - City of New Braunfels

| Point of Concentration | Drainage Area | Area | T _c | CN | Q ₂ (cfs) | Q ₁₀ (cfs) | Q ₂₅ (cfs) | Q ₁₀₀ (cfs) |
|------------------------|---------------|-------|----------------|-------|----------------------|-----------------------|-----------------------|------------------------|
| A1a | A1a | 43.27 | 74.13 | 80.34 | 34.66 | 88.02 | 120.18 | 160.94 |
| A1b | A1b | 1.93 | 36.79 | 93.15 | 5.06 | 9.48 | 12.01 | 15.20 |
| A1c | A1b+A1c | 2.20 | 36.79 | 91.53 | 4.49 | 9.01 | 11.60 | 14.83 |
| A1 | A1a+A1b+A1c | 45.47 | 74.13 | 80.89 | 37.27 | 93.31 | 126.97 | 169.55 |
| A2b | A2b | 0.41 | 14.34 | 96.78 | 1.43 | 2.71 | 3.45 | 4.36 |
| A2a | A2a+A2b | 2.72 | 14.34 | 95.24 | 9.59 | 18.13 | 23.03 | 29.17 |
| A2 | A2a+A2b+A2c | 3.52 | 52.43 | 91.85 | 5.65 | 11.30 | 14.54 | 18.58 |
| B1a | B1a | 0.27 | 17.88 | 93.00 | 0.82 | 1.60 | 2.05 | 2.61 |
| B1b | B1b | 0.21 | 10.00 | 93.00 | 0.77 | 1.50 | 1.92 | 2.44 |
| B2a | B2a | 0.33 | 10.00 | 93.00 | 1.21 | 2.36 | 3.02 | 3.84 |
| B2b | B2b | 0.36 | 10.00 | 93.00 | 1.31 | 2.55 | 3.25 | 4.14 |
| B2c | B2c | 0.28 | 11.31 | 93.00 | 0.98 | 1.90 | 2.42 | 3.08 |
| B2d | B2d | 0.35 | 10.00 | 93.00 | 1.28 | 2.50 | 3.20 | 4.06 |
| B2e | B2e | 0.32 | 17.85 | 93.00 | 2.00 | 3.90 | 4.99 | 6.35 |
| B2f | B2f | 0.63 | 20.77 | 93.00 | 1.82 | 3.54 | 4.54 | 5.77 |
| B3a | B3a | 0.32 | 30.15 | 93.00 | 0.76 | 1.48 | 1.90 | 2.41 |
| B3b | B3b | 0.32 | 25.58 | 93.00 | 0.83 | 1.62 | 2.07 | 2.64 |
| B3c | B3c | 0.32 | 30.15 | 93.00 | 0.76 | 1.48 | 1.90 | 2.41 |
| B3d | B3d | 0.32 | 25.58 | 93.00 | 0.81 | 1.58 | 2.03 | 2.59 |
| B3e | B3e | 1.33 | 47.04 | 93.00 | 2.36 | 4.63 | 5.93 | 7.56 |
| B3f | B3f | 0.44 | 14.10 | 93.00 | 1.47 | 2.87 | 3.67 | 4.66 |
| B3g | B3g | 1.55 | 12.01 | 93.00 | 5.41 | 10.52 | 13.45 | 17.10 |
| B3h | B3h | 0.38 | 10.00 | 93.00 | 1.38 | 2.68 | 3.43 | 4.36 |
| B4a | B4a | 1.72 | 10.73 | 93.00 | 6.18 | 12.02 | 15.37 | 19.55 |
| B4b | B4b | 0.28 | 63.42 | 93.00 | 0.41 | 0.80 | 1.03 | 1.31 |
| B4c | B4c | 0.23 | 52.52 | 93.00 | 0.38 | 0.75 | 0.96 | 1.22 |
| B | B | 9.96 | 63.42 | 93.00 | 16.15 | 31.54 | 40.34 | 51.35 |

290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBPLS FIRM F-10961
TBPLS FIRM 1053600



07/29/2020

**PROPOSED DRAINAGE
AREA MAP INSET**
VANGUARD FARMS APARTMENTS

| NO. | REVISION | DESCRIPTION | DATE |
|-----|----------|-------------|------|
| | | | |
| | | | |
| | | | |
| | | | |

DATE: JULY 2020
DRAWN BY: LB
DESIGNED BY: JMM
REVIEWED BY: CVH
HMT PROJECT NO.: 323.001

SHEET
C3.2