SPRING 'COS



MANCHETEL-LOOKING EAST



MANCHESTER WEST

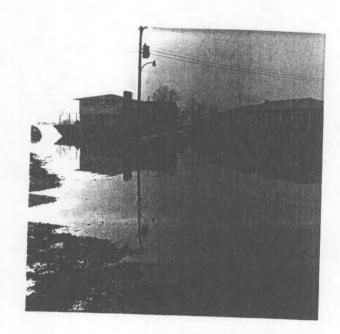
Tother have

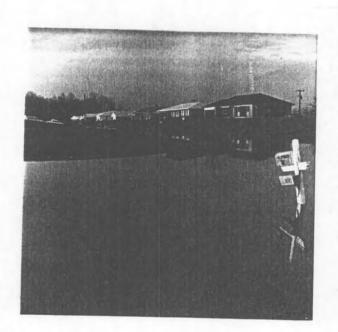


N

Marchent









May 1998



May 1998



May 1998



May 1998



May 1998



April 1998



April 1998



April 1998



April 1998



April 1998



April 1998



April 1998



April 1998



April 1998



April 1998





Spring 2002





Spring 2002





Spring 2002





Spring 2002



Spring 2002





(

PROJECT: 10, 21

(11)th = 110th 24.)

HAMILTON COUNTY SURVEYOR'S OFFICE

BY: JLK DATE: 12/30/96

TOTAL ACKEAGE:

13-782 42-381 42-382 42-389 42-399 42-399 Made ir U. 9.8 AC 13.8 AC 15.2 AC 14.0 AC 12.1 AC

71.1 AC

PIPE SIZING FOR CMPA UNDER 111th ST

| METHOD | SIZE | FORMED |
|-------------|------------------|---------------------|
| SCS ACREAGE | 16" 80.33% | 18"X11" - 12" × 13" |
| RATIONAL | 48/18/1940 0.33/ | 178"×86" Un"×40" |
| 12-55 | M/m/160"00.34 | 15" 140" - 72" 144" |

EXISTING PIDE = 31" x 48" (242")

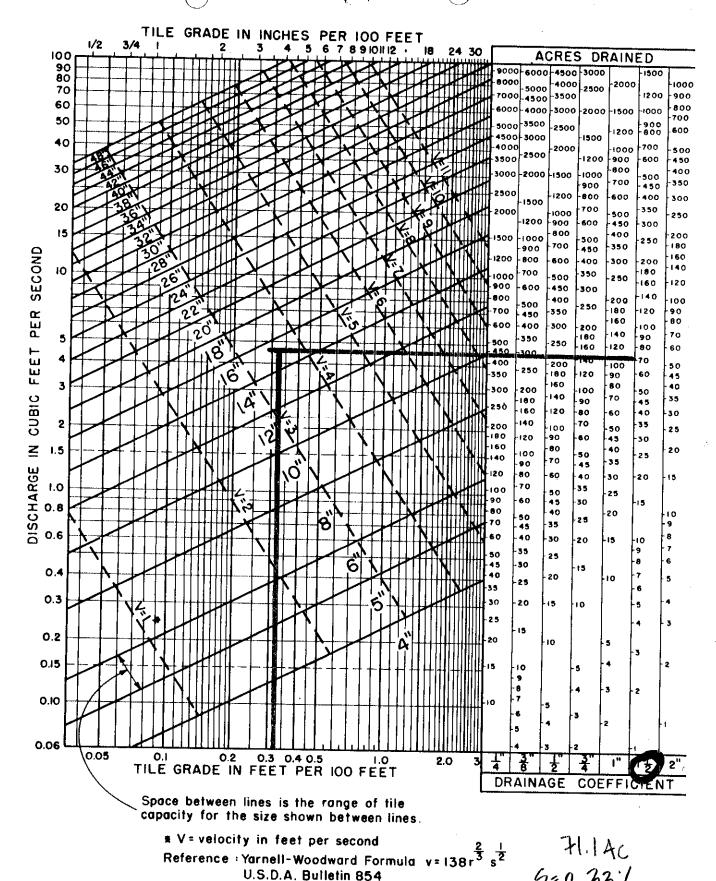


Figure 3. Tile drain design chart.

16" CMPA

PROJECT: 1531 (1114 4 TILE)

RATIONAL

HAMILTON COUNTY SURVEYOR'S OFFICE

ODATE: 12/30/96

10TAL ACKEAGE: 71.1AL = 3097,116 ft 2

| DESCRIPTION | Ac | 1/, | C | WEGHTED C |
|----------------------------------|------|-------|-----|-----------|
| CULTIVATED FIELD | 10.1 | 13% | 0.3 | 0.069 |
| DEVELOPED AKEAS (PAVED/BLDGS) | 41.5 | 66.5% | 0.9 | 0.799 |
| GRASSED AREA (US 31 DITCH) | 7.57 | 10,5% | 0.6 | 0.003 |
| Co y y Michy | | | | 0.531 |

Te = 0.0078 (D) 0.77

MAXIMUM DIST: 3500'

AVG SLOPE: 0.0054/4 (0.5%)

Tc = 0.0078 (35,000') 0.77 = 32 MIN

Iz: 1.9 "/hr (1/2") 1/48 = 4.40 (10) 5 fps

Is: 2.57/hr = 17.79 (10)-5 fps

In: 3.0 1/hr = 6.94 (10)-6 fps

Q=CIA

 $Q_{12} = (0.6731)(4.4\times10^{-6})(309711642) = 72.36 \text{ Cfs}$ $Q_{13} = (0.6731)(5.79\times10^{-6})(309711642) = 95.121 \text{ Cfs}$ $Q_{13} = (0.6731)(6.94\times10^{-6})(309711642) = 114.13 \text{ Cfs}$

VEUR BAISHE

Values of Runoff Coefficients (C) for Use in the Rational Formula

| Type of Surface | Runoff Coefficient |
|---------------------------------------|--------------------------|
| Rural Areas | |
| Concrete or sheet asphalt pavement | 0,8 - 0.9, |
| Asphalt macadam payoment | 0.6 - 0.8 |
| Gravel roadways or shoulders | 0.4 - 0.6 |
| Bare earth | |
| Steep grassed areas (2:1) | |
| Turf meadows | |
| Forested areas | 0.1 - 0.3 |
| Cultivated fields | 0.2 - 0.4 |
| Urban Areas | |
| All water-tight roof surfaces | 0.75 - 0.95 |
| Bituminous or concrete pavement | 0.80 - 0.95 |
| Traffic bound pavement | 0.70 - 0.90 |
| Gravel pavement | · · |
| Impervious soils (heavy) | 0.40 - 0.65 |
| Impervious soils (w/turf) | 0.30 - 0.55 |
| Slightly pervious soil | . 0.15 - 0.40 |
| Slightly pervious soil (w/turf) | 0.10 - 0.30 |
| Moderately pervious soil | 0.05 - 0.20 |
| Moderately pervious soil (w/turf) | 0.00 - 0.10 |
| Example of a Weighted "C" Factor | |
| 5% Water tight roof surfaces | $5\% \times 0.85 = 0.04$ |
| 10% Bituminous or conc. pavement | |
| 10% Traffic Bound payement | |
| 50% Slightly impervious soil | |
| 15% Slightly impervious soil (w/turf) | |
| 107 Moderately pervious soil | $10\% \times 0.1 = 0.01$ |
| Weighted "C" Factor = | 0.45 |

Fig. 7-415.04 B

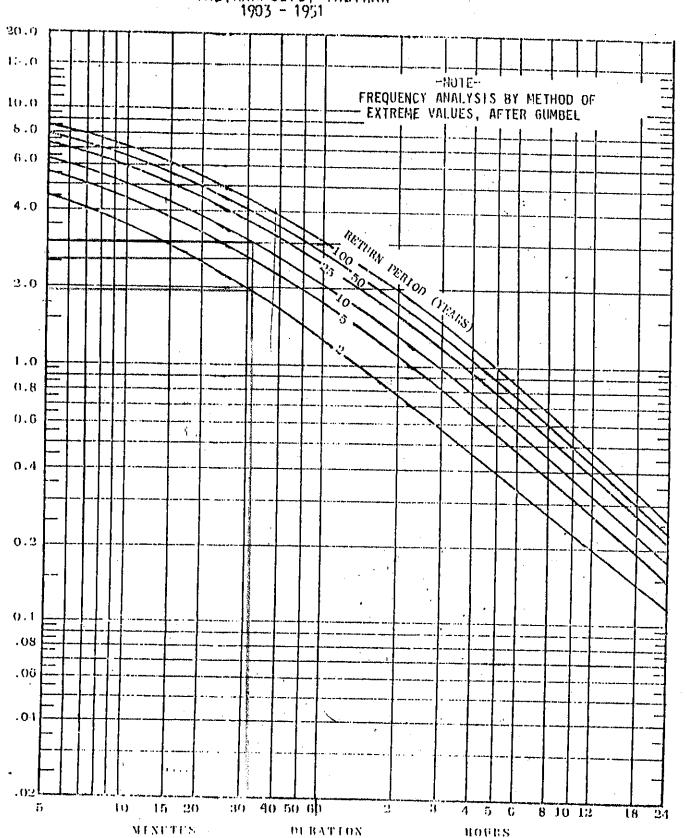
Pational C Values

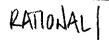
U.S. DEPARTMENT OF COMMERCE

WEATHER BUREAU

COOPERATIVE STUDIES SECTION

RAINFALL INTENSITY - DURATION - FREQUENCY CURVES INDIANAPOLIS, INDIANA 1903 - 1951





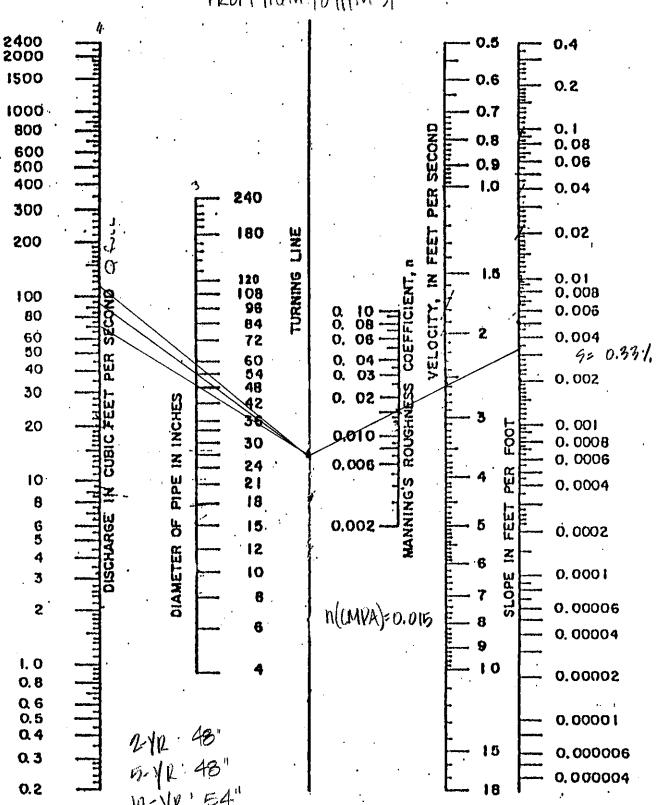
CMPA UNDER 111th 9 (W.) FUS31)

NOMOGRAPH FOR SOLUTION OF MANNING'S

FORMULA FOR FLOW IN STORM SEWERS

DRAINAGE AREA 71.1 AL ALONG US31
FROM 114th to 111th ST

On: 71.36 cfs Op: 95,72 cfs Q10:14.13 cfs



Worksheer 4: Graphical Peak Discharge method

| Togetton DG 21 / WATHER UITH CO) | ate 12 30 | <u>96</u> |
|--|-------------|-----------|
| | ate | |
| Circle one: Present Developed | | |
| | | |
| 1. Data: | | |
| Drainage area $A_m = O_1 mi^2 (acres/640)$ | | |
| Runoff curve number $CN = 91.2$ (From worksheet 2) | | |
| Time of concentration $T_c = 0.+89$ hr (From worksheet 3) | | |
| Rainfall distribution type = (I, IA, II, III) | | |
| Pond and swamp areas spread throughout watershed = 0 percent of A_m (act | res or mi2 | |
| possession of im | res of IIIT | covered) |
| Storm #1 3 | Storm #2 | Storm #3 |
| 2. Frequency yr 2 | 5 | 10 |
| 3. Rainfall, P (24-hour) in 3.0 | 3,75 | 4.3 |
| | | |
| 4. Initial abstraction, I_a | 0.195 | 0.195 |
| 5. Compute I _a /P | 01/2 | 0.045 |
| 0.007 10 | W/L | 0.045 |
| 6. Unit peak discharge, q | 100 | 10- |
| 6. Unit peak discharge, q_u csm/in (Use T_c and I_a/P with exhibit 4-11) | 470 | 435 |
| 7 Puness 0 | .805 | 0 220 |
| 7. Runoff, Q | .005 | 3.332 |
| B. Pond and swamp adjustment factor F | | |
| Pond and swamp adjustment factor, F (Use percent pond and swamp area | | |
| with table 4-2. Factor is 1.0 for zero percent pond and swamp area.) | | |
| Peak discharge, q _p | 34.0 | 161.0 |
| (Where $q_p = q_u^A_m Q_p^F$) | , 0 | 141.0 |

Worksheet 2: Runoff curve number and runoff

| Project RCP UNDER 1117 ST (W of US 31) | By JUK | Date 12 30 96 |
|--|---------|---------------|
| Location ALDNG US31 (1110TH ST - 111TH ST) | Checked | Date |
| Circle one: Present Developed | | |

1. Runoff curve number (CN)

| Soil name and hydrologic | Cover description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio) | | CN 1/ | | Area | Product of |
|--------------------------------|---|-------|----------|----------|--------|---------------|
| group (appendix A) | | | Fig. 2-3 | Fig. 2-4 | Aacres | CN x area |
| CROSE/, C | IMPERVIOUS AREAS | 98 | | | 27.5 | 2695 |
| BROOKSTON BLV | ll . | 28 | | | 27.5 | 2695 |
| CROSEN, C | WOODS (FAIK) | 70 | | | 8.05 | . 563.5 |
| BROOKSTON, B/U | l l | 60 | | | 8.05 | 531,3 |
| | | | | | | |
| | î. | | | | | |
| 1/ Use only on | e CN source per line. | Total | .s = | | 71.1 | 6484.8 |

CN (weighted) = $\frac{\text{total product}}{\text{total area}} = \frac{0484.8}{11.1} = \frac{91.2}{31.1}$; Use CN = $\frac{91.2}{11.1}$

2. Runoff

| Frequency | yr |
|-----------------------|----|
| Rainfall, P (24-hour) | in |
| Runoff, Q | in |

| Storm #1 | Storm #2 | Storm #3 |
|----------|----------|----------|
| 2 | 5 | 10 |
| 3.01 | 3.75" | 4.3" |
| 2.09 | 2.805 | 3.332 |

PROJECT: III^MGI VIDE

HAMILTON COUNTY SURVEYOR'S OFFICE BY: JLK DATE: 12 30 96

5-YR STORM

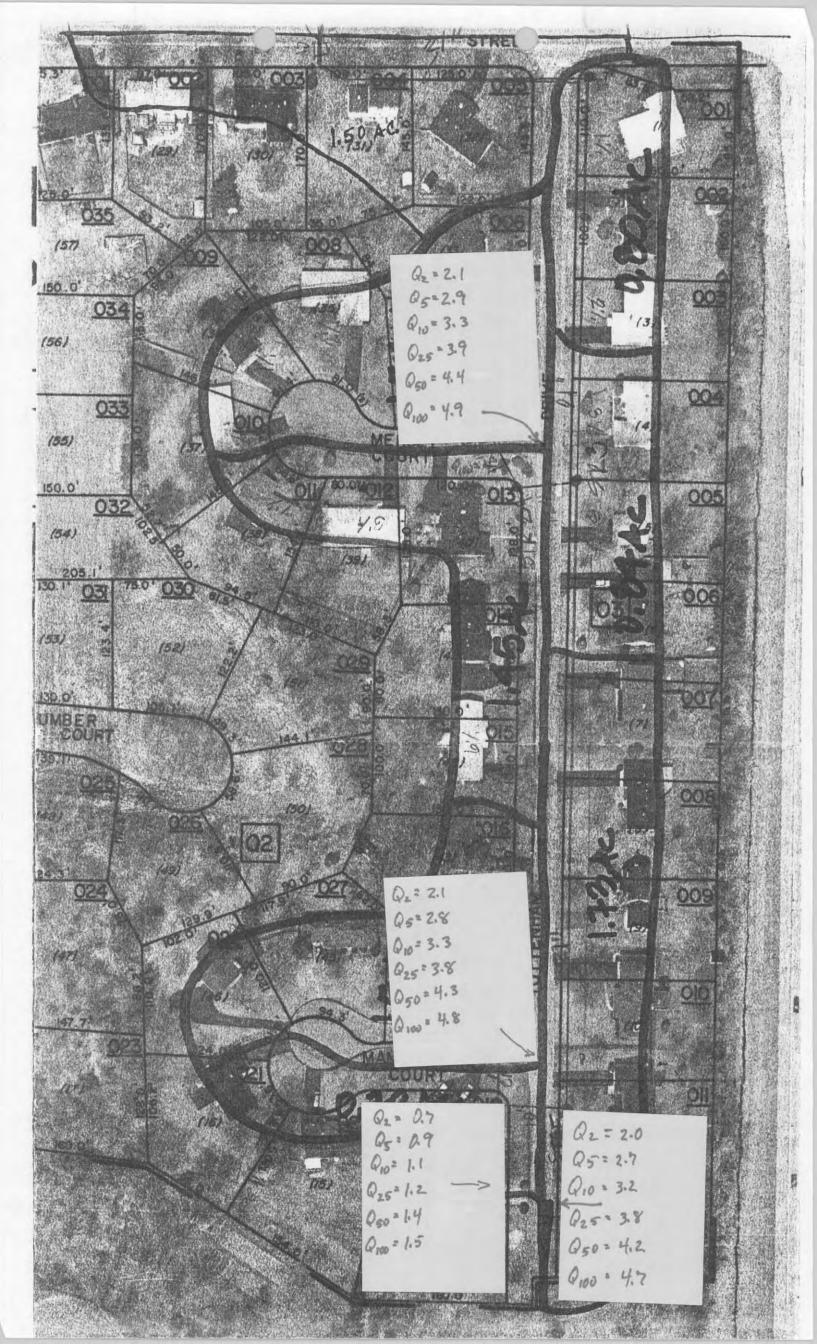
| | 90 | 91.2 | 95 |
|------|-------|-------|-------|
| 3.5 | 2.45 | | 2.94 |
| 3,75 | 2.685 | 2.805 | 3,185 |
| 4.0 | 2.92 | | 3,43 |

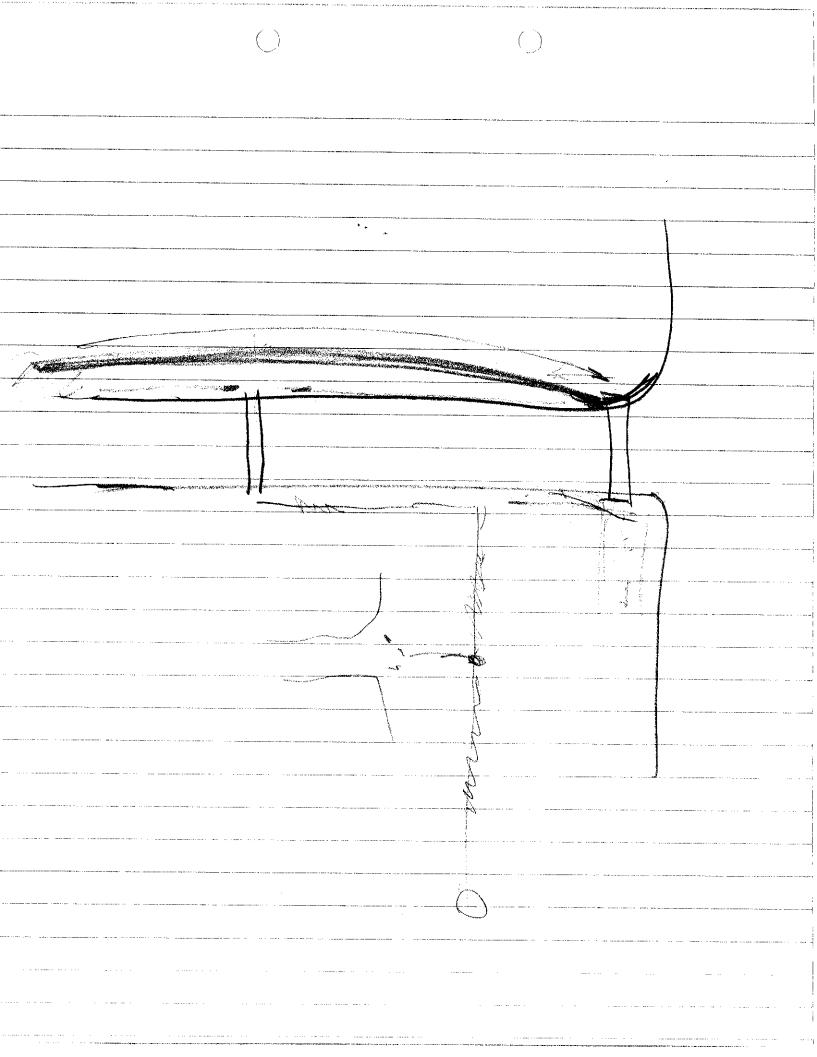
10-YR STORM

| | 90 | 91.2 | 95 |
|-----|-------|-------|-------|
| 4.0 | 2.92 | | 3,43 |
| 4.3 | 3.208 | 3.332 | 3,724 |
| 4.5 | 3,4 | | 312 |
| | | | |

Worksheet 3: Time of concentration (T_c) or travel time (T_t)

| Project RCP VALVER 111TH ST (W of US 31) F | y <u>JLK</u> Da | te 1/1/30/96 |
|---|-----------------|--|
| Location 1991 (11111110 1111119) | hecked Da | te |
| Circle one: Present Developed Circle one: T through subarea | | |
| NOTES: Space for as many as two segments per flow tworksheet. | ype can be used | for each |
| Include a map, schematic, or description of | flow segments. | |
| Sheet flow (Applicable to T _c only) Segment I | D I | |
| 1. Surface description (table 3-1) | SMOUTHGUE | thces |
| 2. Manning's roughness coeff., n (table 3-1) | 0.011 | |
| 3. Flow length, L (total L \leq 300 ft) | ft 7,00 1 | |
| 4. Two-yr 24-hr rainfall, P ₂ | in 3" | |
| 5. Land slope, s ft | /ft 0.005 | |
| 6. $T_t = \frac{0.007 \text{ (nL)}^{0.8}}{P_2^{0.5} \text{ g}^{0.4}}$ Compute T_t | hr 0.087 + | - 0.087 |
| Shallow concentrated flow Segment I | D | |
| 7. Surface description (paved or unpaved) | PAVED UN | IPAVED |
| 8. Flow length, L | ft 700' | 1450 |
| 9. Watercourse slope, s ft | /ft 0.005) 0 | 0.005 |
| 10. Average velocity, V (figure 3-1) f | c/s 1.45 1 | .15 |
| 11. $T_t = \frac{L}{3600 \text{ V}}$ Compute T_t | hr 0.134 + | 0.702 |
| Channel flow Segment I | o | 7-17-18-18-18-18-18-18-18-18-18-18-18-18-18- |
| 12. Cross sectional flow area, a | ft ² | |
| 13. Wetted perimeter, p _w | ft | |
| 14. Hydraulic radius, $r = \frac{a}{p_{yy}}$ Compute r | ft | |
| 15. Channel slope, s ft | /ft | |
| 16. Manning's roughness coeff., n | | |
| 17. $V = \frac{1.49 \text{ r}^{2/3} \text{ s}^{1/2}}{n}$ Compute V f | t/s | |
| 18. Flow length, L | ft | |
| 19. $T_t = \frac{L}{3600 \text{ V}}$ Compute T_t | hr + | - |
| 20. Watershed or subarea T_c or T_t (add T_t in steps | 6, 11, and 19) | hr 0,789 |





DRAINAGE CALCULATIONS - Rational Method

ACTIVITY: Size inlets and storm drain

Location: Meridian Sub., 111 th. St. at Tottenham dr., To Manchester Ct.

Area (A): 2.95 Acres

Runoff Coeff. (C): 0.40

| Subarea Description S.Fam. | Sq. Ft. | (Acres) 2.95 | (%age of total) 1.00 0.00 0.00 | subarea "c" 0.4 | c * %age 0.40 0.00 0.00 |
|-------------------------------|---------|-----------------|---|--------------------|----------------------------------|
| | | | 0.00 | | 0.00 |
| | | | 0.00 | | 0.00 |
| | | | 0.00 | | 0.00 |
| | | | 0.00 | | 0.00 |
| | | 2.950 | ac. | Weighted C: | 0.40 |

Time of Concentration Calculations (Note: tables & figures are from TR-55)

| BEGINNING (≤300') | | | Intensity (I): |
|-------------------------------|------------|---------------|--|
| Surface desc. = | dev. | | $(I_n = a/(t+b)^n)$ |
| Manning's (table 3.1) | 0.24 | | Per City of Indianapolis Stormwater Manual; t is In minutes. |
| Flow length (L) = | 70 | feet | $l_2 = 1.76$ in./ hr. |
| 2yr.24hr, P2 = | 2.74 | in. (rain) | $l_5 = 2.35$ in./ hr. |
| elev. Drop (D) = | | feet | l ₁₀ = 2.76 in./ hr. |
| avg. slope (D/L), s = | 0.01 | feet/feet | $l_{25} = 3.25$ in./ hr. |
| T1 = | 0.255 | hours | $l_{50} = 3.67$ in./ hr. |
| | | | $l_{100} = 4.03$ in./ hr. |
| SHALLOW CONCENTRA | TED FLO | W | Flow Rate (" Q "): |
| desc. (paved/unpaved) | unpaved | | 1, |
| Flow length, L = | 830 | feet | |
| Watercourse slope, s = | 0.0036 | feet/feet | $Q_2 = 2.1$ c.f.s. |
| Ave. velocity, V (fig. 3.1) = | 1.5 | feet/sec. | $Q_5 = 2.8$ c.f.s. |
| | | | $Q_{10} = 3.3$ c.f.s. |
| $T_2 =$ | 0.346 | hours | $Q_{25} = 3.8$ c.f.s. |
| | | | $Q_{50} = 4.3$ c.f.s. |
| $T_{total} = T_1 + T_2 =$ | 0.601 | hours | $Q_{100} = 4.8$ c.f.s. |
| | 36.04 | minutes | |
| CHANNEL OR PIPE FLOW | N (innut f | rom other | calcs., dist.=0 & vel. = 0.001 for initial area) |
| velocity (ft/sec)= | | dist. (ft.) = | 0 |
| 70.00.7 (1000) | 0 | aist (it.) = | |

| velocity (ft/sec)≃ T₃ = | 0.00 0.00 | dist. (ft.) = hours minutes | 0 (Time 2A to 6 in pipe |
|---|--------------|-----------------------------------|----------------------------|
| = T ₁ + T ₂ + T ₂ = | 0 604 | houre | |

36.04 minutes

DATA INPUT BY: D. Sedler DATE: ___8/45/97

CHECKED BY: DATE:

DRAINAGE CALCULATIONS - Rational Method

ACTIVITY: Size inlets and storm drain

Location: Meridian Sub., 111 th. St. at Tottenham dr., West side, So. Of Manchester

Area (A): 0.78 Acres

Runoff Coeff. (C): 0.40

| Subarea Description | Sq. Ft. | | (%age of total) | subarea "c" | c * %age |
|---------------------|---------|-------|-----------------|-------------|----------|
| S.Fam. | | 0.78 | 1.00 | 0.4 | 0.40 |
| | | | 0.00 | | 0.00 |
| | | | 0.00 | | 0.00 |
| | | | 0.00 | | 0.00 |
| | | | 0.00 | | 0.00 |
| | | | 0.00 | | 0.00 |
| | | | 0.00 | | 0.00 |
| | | 0.780 | ac. | Weighted C: | 0.40 |

Time of Concentration Calculations (Note: tables & figures are from TR-55)

| BEGINNING (≤300') | | | Intensity (I): |
|-------------------------------|---------|---------------|--|
| Surface desc. = | dev. | | $\frac{1}{(\ln = a/(t+b)^n)}$ |
| Manning's (table 3.1) | 0.24 | | Per City of Indianapolis Stormwater Manual; t is in minutes. |
| Flow length (L) = | 80 | feet | $l_2 = 2.18$ in./ hr. |
| 2yr.24hr. P2 = 2 | 2.74 | in. (rain) | $l_5 = 2.90$ in./ hr. |
| elev. Drop (D) = | | feet | I ₁₀ = 3.39 in./ hr. |
| avg. slope (D/L), s = | 0.01 | feet/feet | $l_{25} = 3.99$ in./ hr. |
| T1 = | 0.284 | hours | $l_{50} = 4.48$ in./ hr. |
| | | | 1 ₁₀₀ = 4.92 in./ hr. |
| SHALLOW CONCENTRATE | D FLO | W | Flow Rate (" Q "): |
| desc. (paved/unpaved) ur | paved | | • |
| Flow length, L = | 350 | feet | |
| Watercourse slope, s = 0. | .0033 | feet/feet | $Q_2 = 0.7$ c.f.s. |
| Ave. velocity, V (fig. 3.1) = | 1.5 | feet/sec. | $Q_5 = 0.9$ c.f.s. |
| | | | $Q_{10} = 1.1$ c.f.s. |
| T ₂ = | 0.146 | hours | $Q_{25} = 1.2$ c.f.s. |
| | | | $Q_{50} = 1.4$ c.f.s. |
| $T_{total} = T_1 + T_2 =$ | 0.429 | hours | $Q_{100} = 1.5$ c.f.s. |
| | 25.77 | minutes | |
| CHANNEL OR PIPE ELOW / | innut f | rom other | calcs., dist.=0 & vel. = 0.001 for initial area) |
| velocity (ft/sec)= | | dist. (ft.) = | 0 |

| velocity (ft/sec)= | 0 | dist. (ft.) = | • O |
|--------------------|--------------|------------------|------------------------|
| Тз = | 0.00 0.00 | hours minutes | (Time 2A to 6 in pipe) |
| = T1 + T2 + T3 = | 0 429 | hours | |

25.77 minutes

DATA INPUT BY: D. Sedier DATE: 9/9/97

CHECKED BY: DATE:

DRAINAGE CALCULATIONS - Rational Method

ACTIVITY: Size inlets and storm drain

Location: Meridian Sub., 111 th. St. at Tottenham dr., Initial area

Area (A): 3.06 Acres

Runoff Coeff. (C): 0.40

| Subarea Description | Sq. Ft. | | (%age of total) | subarea "c" | c * %age |
|---------------------|---------|-------|-----------------|-------------|----------|
| S.Fam, | | 3.06 | 1.00 | 0.4 | 0.40 |
| | | | 0.00 | | 0.00 |
| | | | 0.00 | | 0.00 |
| | | | 0.00 | | 0.00 |
| | | | 0.00 | | 0.00 |
| | | | 0.00 | | 0.00 |
| | | | 0.00 | | 0.00 |
| | | 3.060 | ac. | Weighted C: | 0.40 |

Time of Concentration Calculations (Note: tables & figures are from TR-55)

| | | | | | · |
|-------------------------------|------------|---------------|----------------------------------|---------------|--------------------------------|
| BEGINNING (≤300') | | | <u>Intensity</u> (| I): | |
| Surface desc. = | dev. | | $(\ln = a/(t+b)^2)$ | | |
| Manning's (table 3.1) | 0.24 | | Per City of Indian | apolis Stormy | vater Manual; t is in minutes. |
| Flow length (L) = | 70 | feet | 12 = | 1.74 | in./ hr. |
| 2yr.24hr. P2 = | 2.74 | in. (rain) | l ₅ = | 2.33 | in./ hr. |
| elev. Drop (D) = | | feet | I 10 = | 2.73 | in./ hr. |
| avg. slope (D/L), s = | 0.01 | feet/feet | l ₂₅ = | 3.22 | in./ hr. |
| T1 = | 0.255 | hours | I ₅₀ = | 3.63 | in./ hr. |
| | | | 1100 = | 3.99 | in./ hr. |
| SHALLOW CONCENTRA | TED FLO | w | Flow Rate | ("Q") | |
| desc. (paved/unpaved) | unpaved | | | | <u>-</u> |
| Flow length, L = | 850 | feet | | | |
| Watercourse slope, s = | 0.0036 | feet/feet | $Q_2 =$ | 2.1 | c.f.s. |
| Ave. velocity, V (fig. 3.1) = | 1.5 | feet/sec. | $Q_5 =$ | 2.9 | c.f.s. |
| | | | Q ₁₀ = | 3.3 | c.f.s. |
| T ₂ = | 0.354 | hours | $Q_{25} =$ | 3.9 | c.f.s. |
| | | | Q 50 = | 4.4 | c.f.s. |
| $T_{total} = T_1 + T_2 =$ | 0.609 | hours | Q ₁₀₀ = | 4.9 | c.f.s. |
| | 36.54 | minutes | | | |
| CHANNEL OF DIDE ELOW | M /Innut f | ram atha | er calcs., dist.=0 & vel. = 0.00 | .d. &a ! !41. | -1 \ |
| velocity (ft/sec)= | | dist. (ft.) = | | TOP INITIA | ai area) |
| T ₃ = | 0.00 | hours | (Time 2A to 6 in pipe) | | |
| 13 - | 0.00 | minutes | (Time 2A to 0 iii pipe) | | |

| volocity (ludec) | U | uiac (ic.) - | U | |
|--|----------------|------------------|------------------------|--|
| Тз = | 0.00 0.00 | hours minutes | (Time 2A to 6 in pipe) | |
| $T_{\text{total}} = T_1 + T_2 + T_3 =$ | 0.609 36.54 | hours minutes | | |

DATA INPUT BY: D. Sedler DATE: 8/15/97

CHECKED BY: DATE:

DRAINAGE CALCULATIONS - Rational Method

ACTIVITY: Size inlets and storm drain

Location: Meridian Sub., 111 th. St. at Tottenham dr., East Side of Tottenham

Area (A): 3.37 Acres

Runoff Coeff. (C): 0.40

| Subarea Description | Sq. Ft. | | (%age of total) | subarea "c" | c * %age |
|---------------------|---------|-------|-----------------|-------------|----------|
| S.Fam. | | 3.37 | 1.00 | 0.4 | 0.40 |
| | | | 0.00 | | 0.00 |
| | | | 0.00 | | 0.00 |
| | | | 0.00 | | 0.00 |
| | | | 0.00 | | 0.00 |
| | | | 0.00 | | 0.00 |
| | | | 0.00 | | 0.00 |
| | | 3.370 | ac. | Weighted C: | 0.40 |

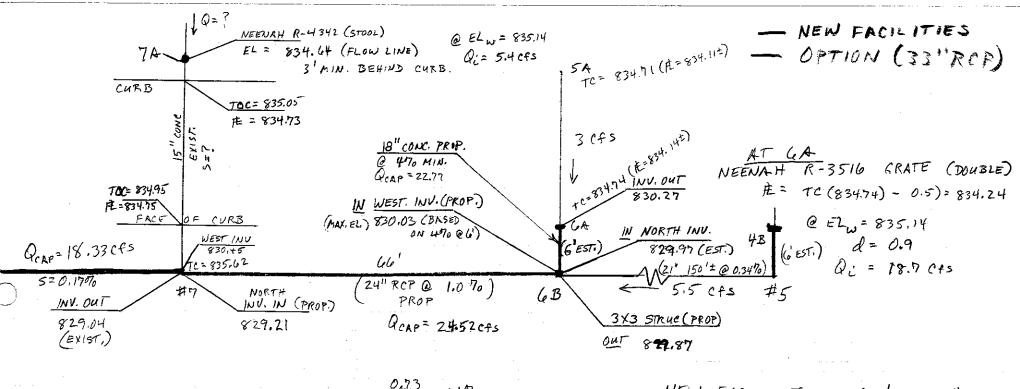
Time of Concentration Calculations (Note: tables & figures are from TR-55)

| BEGINNING (≤300') | | | Intensity (I): |
|-------------------------------|------------|------------|--|
| Surface desc. = | dev. | | $\frac{1}{(\ln = a/(t+b)^n)}$ |
| Manning's (table 3.1) | 0.24 | | Per City of Indianapolis Stormwater Manual; t is in minutes. |
| Flow length (L) = | 80 | feet | $l_2 = 1.50$ in./ hr. |
| 2yr.24hr. P2 = | 2.74 | in. (rain) | ls = 2.01 in./ hr. |
| elev. Drop (D) = | | feet | $I_{10} = 2.36$ in./ hr. |
| avg. slope (D/L), s = | 0.01 | feet/feet | $l_{25} = 2.78$ in./ hr. |
| T1 = | 0.284 | hours | $l_{50} = 3.15$ in./ hr. |
| | | | $1_{100} = 3.45$ in./ hr. |
| SHALLOW CONCENTRAT | TED FLO | W | Flow Rate (" Q "): |
| desc. (paved/unpaved) | unpaved | | |
| Flow length, L = | 1150 | feet | |
| Watercourse slope, s = | 0.0033 | feet/feet | $Q_2 = 2.0$ c.f.s. |
| Ave. velocity, V (fig. 3.1) = | 1.5 | feet/sec. | $\mathbf{Q}_{5} = 2.7 \text{c.f.s.}$ |
| | | | $Q_{10} = 3.2$ c.f.s. |
| T ₂ = | 0.479 | hours | $Q_{25} = 3.8$ c.f.s. |
| | | | $Q_{50} = 4.2$ c.f.s. |
| $T_{total} = T_1 + T_2 =$ | 0.763 | hours | $Q_{100} = 4.7$ c.f.s. |
| | 45.77 | minutes | |
| CHANNEL OR PIPE FLOV | V (input f | rom other | calcs., dist.=0 & vel. = 0.001 for initial area) |

| velocity (ft/sec)= | 0 | dist. (ft.) = | 0 |
|---------------------------------|-------|---------------|------------------------|
| T ₃ = | 0.00 | hours | (Time 2A to 6 in pipe) |
| | 0.00 | minutes | |
| $T_{total} = T_1 + T_2 + T_3 =$ | 0.763 | hours | |
| | 45.77 | minutes | |

DATA INPUT BY: D. Sedler DATE: 9/9/97

CHECKED BY: DATE:



 $\frac{0.73}{66} = 1.170$

NEW FACILITIES - 66 OF 24" RCP

6 OF 18" RCP 6' OF 15" RCP 3×3 STRUCTURE OR MANHOLE

2x2 STRUCTURE W/ STOOL GRATE

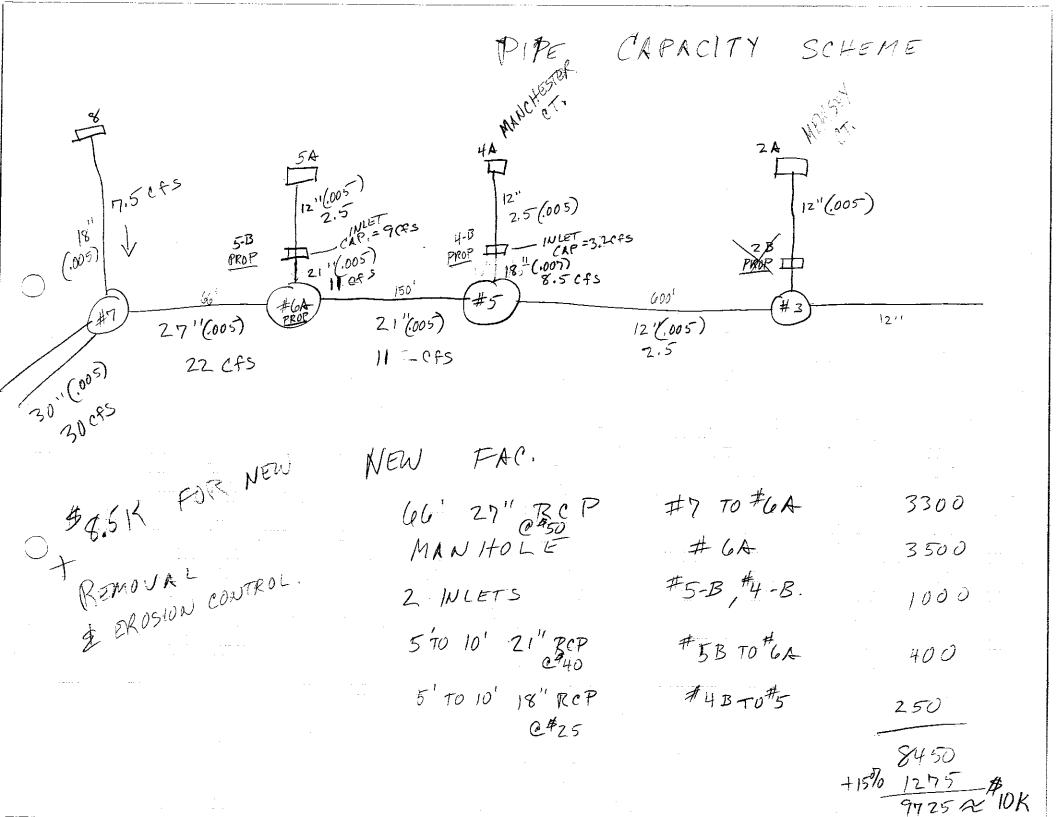
CURB INLET W/ DOUBLE GRATE

TOURD INLET W/SINGLE GRATE

OPTION 466' 33" RCP @ 0.3%

QCAP = 31 Cfs

TO STOOL GRATE WEIR OVER CURB Q= 3.33 L H3/2 0.1' = (3.33×4)(.1)3/2 H=0.1 1 = 4' = 0.42 cfs



Qi = CwLd 1.5 L= 2 ft. d= 0.5' Q= 1.6 c+s (9" DEPTH) CURB OPENING NO DEPRESSION d=0.75' 0i= 3cts (1' DEPTH) Cw= 2.3 (d is to center)
OF ORIFICE A= 2' x 0.5'= 1 Saft d=1 Qi= 4.6 CFS (1'3" DEPTH) d= 8,4" Q= 3,6 Cf5 CHART 13 Qi = Cw Ld1.5 Q 0.4 = 2.3 = (2.3)(2)(4)^{1.5}=1.2 cfs at 1 Depth Qi = 30fs @EL = 835.14 EL 835.14 Qi= 3 Cfs 3 A 12"CONC A 83473 5=1.7670 12" CONE S= 0.6200 QCAF = 5.12 CFS QCAP = 3.04 cfs 46 30 "CONC 21" COUC. 150 ± 66 ± 12" CON 21" CONC 0.3498 # 5 5=0.4% 53,53,110 5=0.1790 Dere 32 des 5= 0.34% 10 CFS CAP DrAP= 18.33 CAS acap=2.4 QCAP = 10.0 Cfs Cfs -(5.5 cfs)829,97 534.71 = 0.31 % 44571 GA IN ADD 4.5" EST. INVERT E = 829.97 EST. 504T 830.48 0.23 = 0.34% 664.0034= 0.22 71N 829.75 829,75+,22= 829,97

SUBURBAN MERIDIAN SUBDIVISION STORM SEWER INFORMATION

| <u>STR. #'S</u> | <u>DIST. BETWEEN STR.'S</u> | GRADE | PIPE SIZE | PIPE TYPE |
|-----------------|-----------------------------|-----------|-----------|-----------|
| 2 TO 3 | 410.42' | 0.29% | 12" | CONC. |
| 3 TO 5 | 603.89' | 0.40% | 12" | CONC. |
| 7 TO 6 | 465.71' | 0.17% | 30" | CONC. |
| 6 TO OUTLET | 238.00' | 0.53% | 30" | CONC. |
| 1A TO 2A | 39.75' | 0.83% | 12" | PVC |
| 2A TO 3 | 41.65' | 0.60% | 12" | PVC |
| 3A TO 4A | 43.59' | 0.73% | 10" | CLAY |
| 4A TO 5 | 41.71' | 0.62% | 12" | CONC. |
| 5A TO 6A | 25,50' | 1.76% | 12" | CONC. |
| 5 10 7 | 216± | 0.34% | 21" | CONC. |
| STR #'S | T C ELEVIS | INIV. INI | BD/ 612 | |

| STR. #'S | T.C. ELEV.'S | INV. IN | INV. OUT |
|-------------|-------------------|----------------------|----------|
| 2 | 839.71' | 834.57' | 834.48' |
| 3 | 838.40' | 833.54 W., 833.28 N. | 833.35' |
| 5 | 836.32' | 831.24 W., 830.92 N. | 830.48' |
| 7 | 835.62' | 830.45 W., 829.75 N. | 829.04' |
| 6 | 833.27' | 828.27' | N/A |
| INV. OUTLET | 827.02' | N/A | 827.02' |
| 1A | 836.78' | N/A | 834.48' |
| 2A | 836.75' | 833.97' | 833.791 |
| 3A | 834.65 | N/A | 831.96' |
| 4A | 834.64' | 831.64' | 831.50' |
| 5A | 834.71' | N/A | 831.31' |
| 6A | 837.74" 834.74 | 830.86' | 830.27' |
| | | | |

IS THIS RIGHT?

SPOT EAST TO WEST

83495 TOP OF CURB EAST SIDE DUER 15"

834.75 E

835.05 TOP OURB WEST SIDE OVER 15"

SUBURBAN MERIDIAN SUBDIVISION STORM SEWER INFORMATION

| <u>STR. #'S</u> | DIST. BETWEEN STR.'S | GRADE | PIPE SIZE | PIPE TYPE |
|-----------------|----------------------|-------|-----------|-----------|
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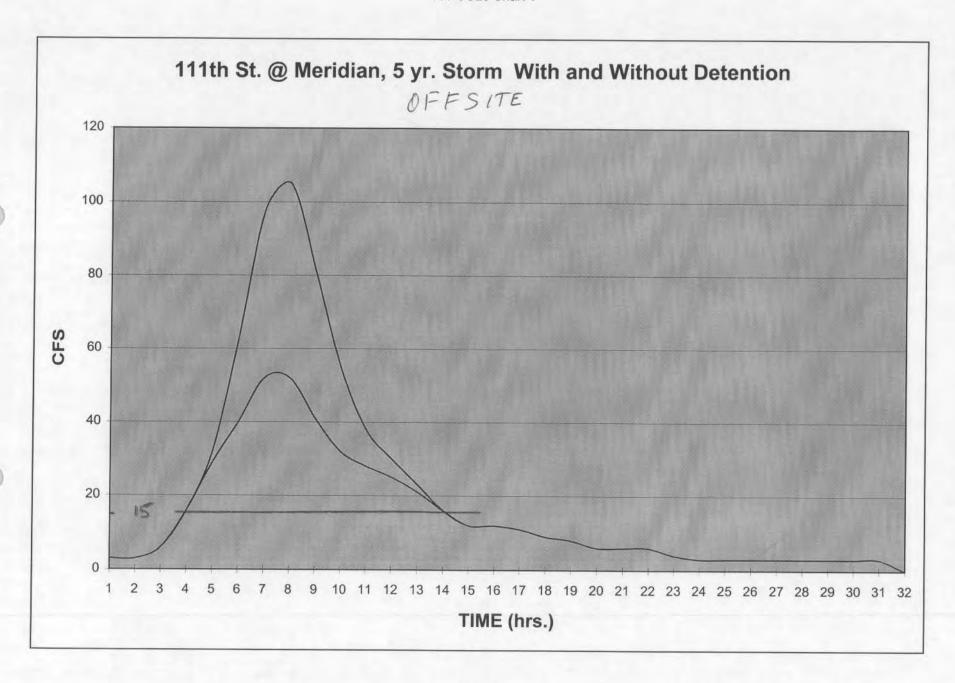
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| INV. OUTLET | 827.02' | N/A | 827.02' |
| 1A | 836.78' | N/A | 834.48' |
| 2A | 836.75' | 833.97' | 833.79' |
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| 5A | 834.71' | N/A | 831.31' |
| 6A | 837.74' | 830.86' | 830.27' |
| | « <u>ጓ</u> ሀ.ታህ | | |

SUBURBAN MERIDIAN SUBDIVISION STORM SEWER INFORMATION

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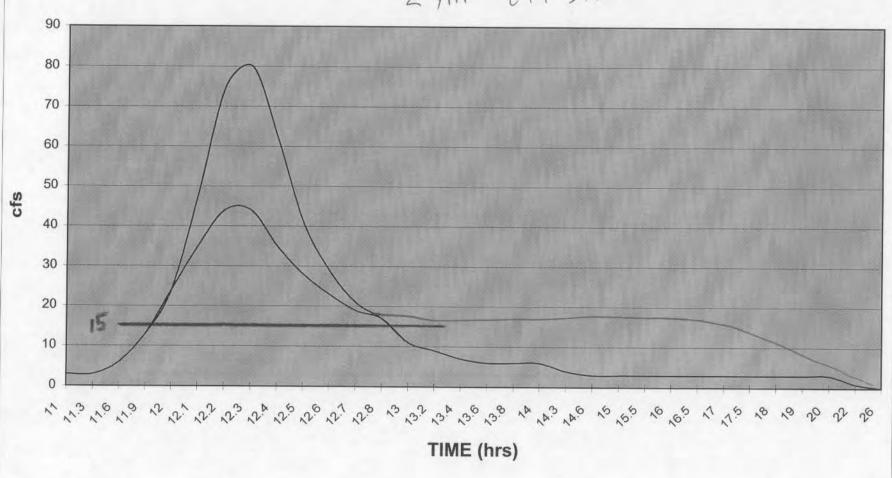
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| 4A | 834.64' | 831.64' | 831.50' |
| 5A | 834.71' | N/A | 831.31' |
| 6A | 83₹.74′ | 830.86' | 830.27' |
| | 834.74 | | |

| AREA | SQ.IN. | 1 SQ. FT. | AC. | · | MEK 1 | DIAN | Su | BDIU | 15 10 | N | _ | | | |
|--------|--------|--|--|---------------|-------|---------|----|--------------------|-------|---|---|---|---|---|
| #11- | | | | | | DITTON. | | | | | | | | |
| TRIAL! | 6.603 | | | | ŕ | | | , | | • | | | | |
| 2 | 6.572 | - | | | | | | - ' | | | - | | | |
| 3 | 6.572 | | | <u>-</u> | | | | | | | | | | |
| TOTAL | 19.747 | 197470 | 4,533 | | | | | | | | | | | |
| AVG. | | | 1.51 A | lc. | | | | | | | | | | |
| #9 | | and for evidence and and an and an and an and an and an | Transaction of the state of the | = | | | | | | | | | | |
| TRH21 | 8.060 | The state of the s | <u>.</u> | | | | | | | | | | | |
| 2 | 9.060 | | | | | | | | | | | - | | |
| 3 | 7.998 | 7000 | A TO THE THE CANADA | | • | | | | | | | | | |
| 7073 | 24./18 | 24/180 | 5.537 | | | | | | · | | | | ÷ | - · · · · · · · · · · · · · · · · · · · |
| AUG | | | 1.85 AC. | | | | | | | | • | · | | |
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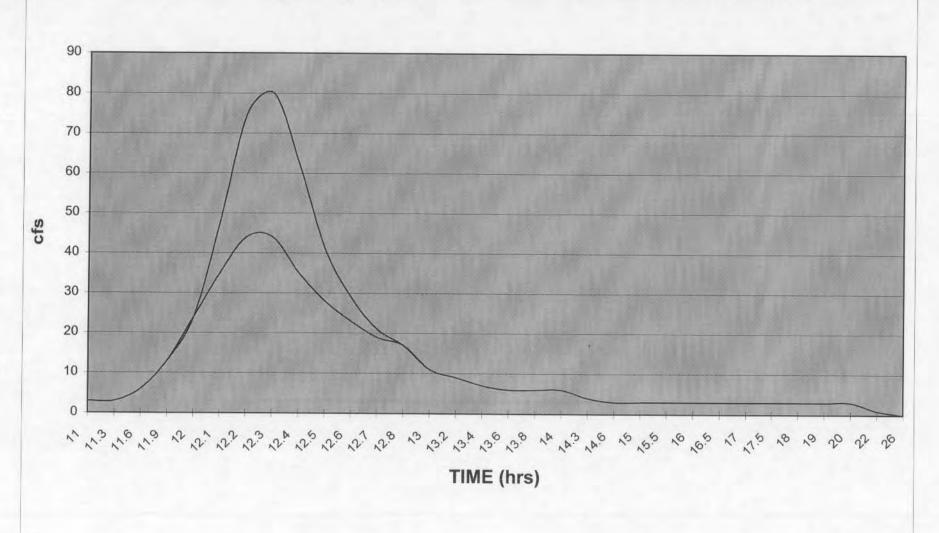


111th St. Hydrographs With & Without Detention

2 yR. OFFSITE



111th St. Hydrographs With & Without Detention



| | Mondian Sal travect |
|--|---|
| | D= 1000A |
| The state of the s | C=0.3 S= 850-839.9 x100=125 .01 |
| | $T_{e}=0.0078\left(\frac{0}{\sqrt{5}}\right)^{0.77}=0.0078\left(\frac{1000}{\sqrt{0.01}}\right)^{0.77}=9.3 \text{min}=0.151$ |
| | tc= 9.3mm |
| | I2 = 3.5 "/hr 180ft |
| | Is=4.7"/hr |
| | In = 5.1"/hr |
| | Q=cia = 0.3 (3.5 1/hr) (17acre) = 17.85 cfs |
| | as=,cia = 0,3(4.7"/hr)(17acre) = 23.97 cfs |
| | Q10 = C1a = 0.3 (5.1 1/hr) (17acre) = 26.01cfs |
| 839.09 | |
| 831.01 | 5=1.5% Dia = 24" RCP for 10-year storm |
| 837.46 | 5=1.5% Dia = 24" RCP for 10-year storm |
| *** | S=1.5% Dia = 24" RCP for 10-year storm 661ft - North of 111 th St. |
| *** | 661ft - North of 111th St. |
| 837.46 | 661ft - North of 111 th St. |
| 837.46 837.58 - F | 661ft - North of 111th St. 181ft - Pipe |
| 837.46 837.58 - F 125') 92ft Pist 838.26** | 661ft - North of 111th St. 181ft - Pipe |
| 837.46 837.58 - F 125') 92ft Pist 838.26** | 1,1244 9434 - Pitching |
| 837.46 837.58 - F 125') 92ft Pist 838.26** | $661ft - North of 111th St.$ $181ft - Pipe$ $1,124ft 943ft - Ditching$ $1,330ft$ $Q_{10} = cin = 0.2(5.17/hr)(17 acces) = 177.34 cfs$ $Q = 24in RCP$ |
| 837.58- F | $661ft - North of 111th St.$ $181ft - Pipe$ $1,124ft 943ft - Ditching$ $1,330ft$ $Q_{10} = c_{10} = 0.2(5.1)^{n}/(17acres) = 17.34 cfs$ $Q = 24in RCP$ |
| 837.58- F | $661ft - North of 111th St.$ $181ft - Pipe$ $1,124ft 943ft - Ditching$ $1,330ft$ $Q_{10} = cin = 0.2(5.17/hr)(17 acces) = 177.34 cfs$ $Q = 24in RCP$ |
| 837.58- F | 661ft - North of 111th St. 181ft - Pipe 1,124ft 943ft - Aithing 1,330ft Q10 = cin = 0.2(5.1 "hr) (17 acres) = [17.34 cfs] Q= 24in RCP 54,000 (132 2000 yd 3 28,000 to exercise) c |
| 837.46 837.58 - F (125') 92ft Pist 838.26 ** WEST COMB | 661ft - North of 111th St. 181ft - Pipe 1,124ft 943ft - Ditching 1,330ft Q10 = cin = 0.3 (5.1 "/hr) (17 acres) = [17.34 cfs] Q10 = 24in RCP 54,000 Ci2.2 2000 yd 3 28,000 to examinate 837- X X100 = 0.6% |
| 837.46 837.58 - F (125') 92ft Pist 838.26 ** WEST COMB | 661ft - North of 111th St. 18/ft - Pipe 1,124ft 943ft - Ditching 1,330ft Que = cin = 0.2(5.1 1/hr) (17 acres) = 17.34 cfs 0 = 24in RCP 54,000 (132 2000 yell 3 28,000 to exercise c 837- × X00 = 0.6% 160 ft 935.90 |
| 837.46 837.58 - F (125') 92ft Pist 838.26 ** WEST SIMB | 661ft - North of 111th St. 181ft - Pipe 1, 124ft 943ft - Ditching 1, 330ft Quo = cin = 0.2(5.1 "hr)(17 acres) = [17.34 cfs] D = 24in RCP 54,000 Ci 2 2 2000 yd 3 28,000 to examinate 837- X X100 = 0.6% 160 14 |

$$WP_{1} = \sqrt{k^{2} + b^{2}} = \left[(4.38 - 3.71)^{2} + 27.39^{2} \right]^{\frac{1}{2}} = 27.40 \text{ ft.}$$

$$WP_{2} = \left[(34.34 - 27.39)^{2} + (3.71 - 2.33)^{2} \right]^{\frac{1}{2}} = 7.56 \text{ ft.}$$

$$WP_{3} = \left[(10.51)^{2} + (4.38 - 2.33)^{2} \right]^{\frac{1}{2}} = 10.71$$

$$45.67 \text{ ft.}$$

$$\begin{array}{l}
\bigcirc CAPACITY \\
Q = A V = (24.75) \left(\frac{1.486}{0.030} \right) \left(\frac{24.75}{45.67} \right)^{2/3} (0.011)^{1/2} \\
= 85.6 \text{ Cfs} \\
= (24.75) (49.53) (0.665) (0.105) \\
Q_{CAP} = 85.6 \text{ Cfs}
\end{array}$$

$$A_{1} = \frac{1}{2}bh = (\frac{1}{2})(27.39)(4.38 - 3.71) = 9.18 \text{ SQ.ft.}$$

$$A_{2} = (\frac{1}{2})(34.34 - 27.39)(3.71 - 2.33) = 4.80 \text{ SQ.ft.}$$

$$A_{3} = (\frac{1}{2})(44.85 - 34.34)(4.38 - 2.33) = 10.77 \text{ SQ.ft.}$$

$$\frac{10.77 \text{ SQ.ft.}}{24.75 \text{ SQ.ft.}}$$

$$Q = 844.38$$

$$844.38 = 0.195 \times + 842.33$$

$$\chi = \frac{4.38 - 2.33}{0.195} - 10.51$$

$$10.51 + 34.34 = 44.85$$

$$y = 0.195 \times + 842.33$$

$$y = m \times + C$$

$$C = 842.33$$

$$m = \frac{7.06 - 2.33}{58.59 - 34.34} = 0.195$$

$$5 = 0.195$$

$$5 = 0.195$$

$$4 = 10$$

$$4 = 10$$

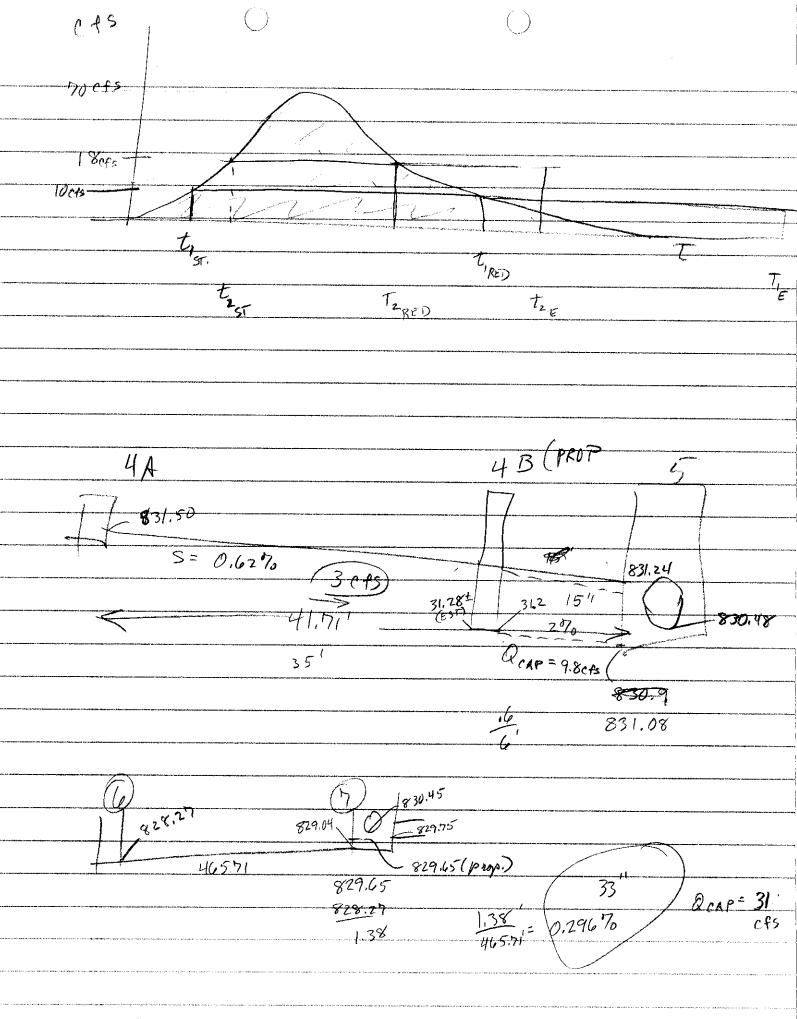
$$5 = 10$$

$$7 = 10$$

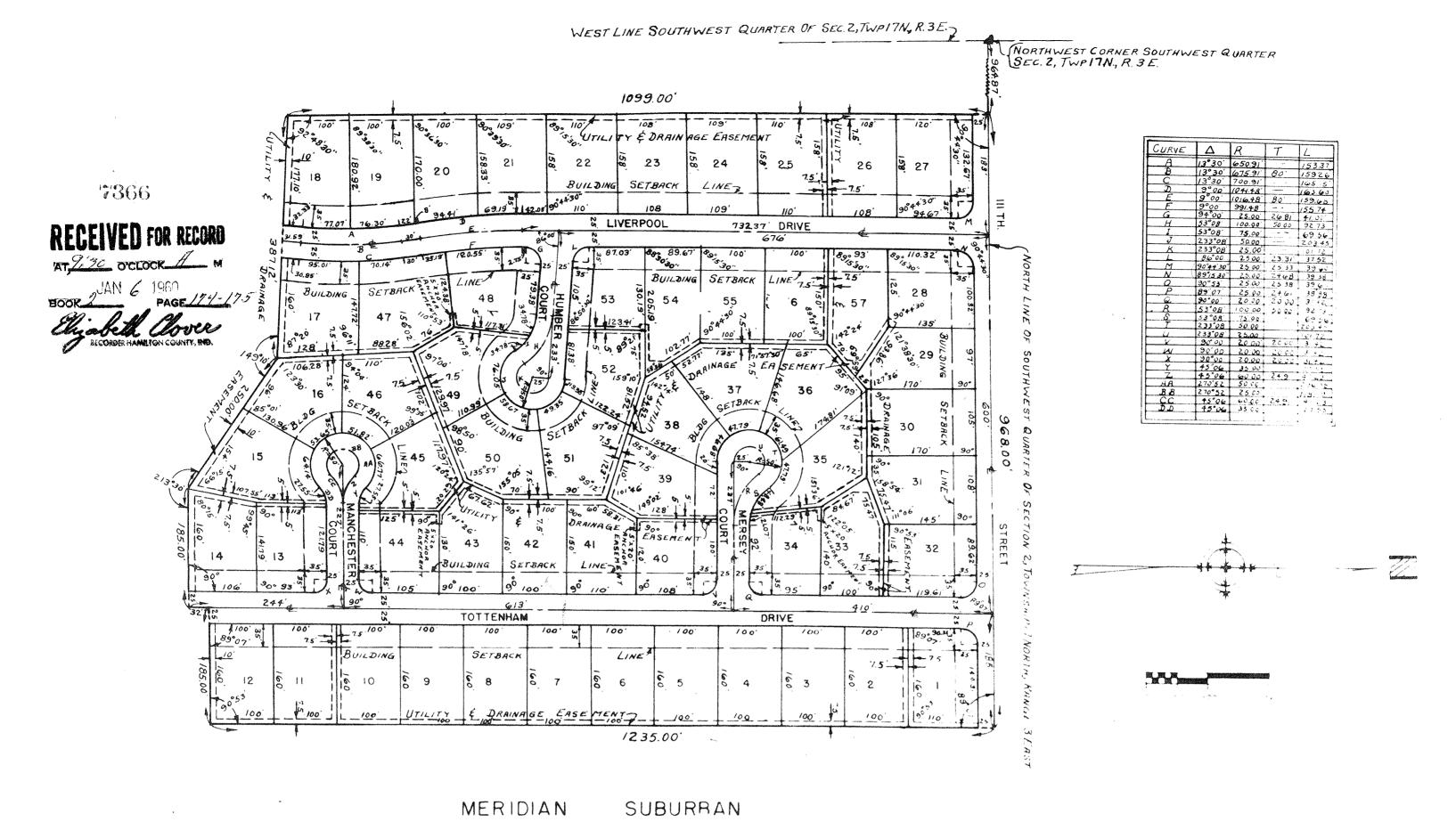
SECTION @

STA 11+17.55

ESTIMATE OF STORAGE CAPACITY UPSTREAM OF 111 TH. STREET DITCH ALONG WISIDE US 31. 6+00 + 42.23 557.77 ft. 1.12 4,48 S.F. + 2,51 = 7 SQ. FT. @ MID-PT 0.56 (4x0,56) + (1,12)(0,56)= 2.87 (2.24) + 0.63560 /2(4.48) + (0.35)(2.51) 1,38A) == 035A = (3.12)(560)=(1746 cu. ft. ADD IFT. BERM (8.48)+(4)=12.48(0.35)(12.48)(950)= 41,49.6 2 (4150 cuft) W/1: J. OF BERM. ADD 1,5FT. 12.72 + 4,5 = 17.22 SQ FT. (0.35)(17,22)(1000) = 4452 & (4500 cu Ct.)



IMPROVE STR 7 TO STR 6 TO 36"



FIRST SECTION

E SOUTHWEST QUARTER OF SECTION 2 TOWNSHIP 17 NORTH RANGE 3 FA

A PART OF THE SOUTHWEST QUARTER OF SECTION 2, TOWNSHIP 17 NORTH, RANGE 3 EAST IN HAMILTON COUNTY, INDIANA

We, the undersigned F. E. MIDDLATCE CO., INC., registered, professional engineers and land surveyors of the State of Indiana, hereby certify that the within mist of Meridian Suturban, First Section is true and correct and represents a subdivision of part of the southwest planter of Section 2, Township 17 North, Range 3 Kast in Hamilton County, ind. more particularly described as follows:

beginning at a point on two north line of aftermaid southwest quarter section 964.87 feet east of the northwest corner thereof, run thence east along and with the north line of said section 968.00 feet; thence southwardly deflecting right 90°53° a distance of 12%5.00 feet to a point; thence westwardly parallel to the north line of said quarter section 185.00 feet; thence southwardly parallel to the east line of the within described tract \$2.20 feet; thence westwardly at right angles to the last tractibed line 185.00 feet; thence northwestwardly deflecting right 30°50° a distance of 250.00 feet; thence westwardly deflecting left 30°50° a tistance of 387.12 feet; thence northwardly .390.00 feet to the place of beginning, containing 26.228 acres, nore or uses.

The also of the lots, widths of streets, easessents, and public ways are it figures denoting feet and lecisal parts thereof.

This subdivision commists of 50 late numbered from , to be inclusive.

WITNESS our said and corporate sea, this 12 tay of DERMORR . 1959.

T. E. MIDDLETON CO., INC., ENGINEERS

BE: Gaul W Moore, hog. #287

The undersigned, values assembly man of the contract of the real estate above and described merein, to be restign that they have laid of, claited and made and made and wide, owners of the real estate above and described merein, do hereby certify that they have laid of, claited and mindivide, and real estate in accordance with the within lat. This sucdivision chall be arower and designated as MERINIAE SUSHEMAE, First Section, a subdivision of our of the source of Section 2. Vownamil 17 North, Range V Nost in Hamilton County, Indiana.

. All streets and public ways shows and not no retofore dedicated, are correby dedicated, to the public and shall be inproved by the sublivider in accordance with the similar requirements set forth by the Board of County Commissioners of Hamilton County.

2. All lots in this sublivision shall be used for residential purposes. No building shall be erected, altered, placed or permitted to remain on any let other tour one detuched single family dealling not to exceed two stories in beight and a private garage. The garage shall be for at least two (2) care.

1. The ground floor area of the main structure, exclusive of one-story open jorches and garages, shall not be less than one thousand (2008) square feet for a one-story dwalling, not is no than eight hundred fifty (890) square feet for a twelling of sore than the story.

4. So resistance and, he erected hearer to the fruit lot line than the building set-back line shown on this plat nor nearer than five (b) feet to the also lines of any lot in this plat nor shall any accessory building, other than a two car have be erected and as interior hearer than seventy-five (75) feet to the front line of any lot in this plat except that any case when the same persons own two adjoining lots, such owners may build a residence or dwelling or appurtenant garage countries the inviting line or to coincide therewith provided that in no case shall any residence be erected hearer to any residence than then a feet. Any private garage on a corner lot shall be attached either directly or by means of a porch, becausely, etc., to the twelling erected on the lot.

somes, steme, and open purches shall not be considered as a part of a building, provided however, that this shall not be considered as a part of a building, provided however, that this shall not be constructed to permit any portion of a building on a lot to encroach upon another lot or be constructed over a filter bed.

v. No resulting shall be erected or placed on any lot having an area of less than twelve thousand (12,000) square feet or a width of .ess than 70 feet at the minimum building set-back line. No lot in this addition shall be subdivided.

ta. The exterior finish of any swelling erected in this emblivation shall be of brick or stone or a combination of brick and stone or a combination of brick or stone and new wood.

THER AUTHORITY HAS LIKED BY CHAPTER 47 OF THE GENERAL ASSEMBLY OF INDIANA OF 1951 THIS PLAT WAS GIVEN APPROVAL BY THE BOARD OF COMPTY LORSISSIONERS OF HAMILTON COUNTY, INDIANA, AT A NEETING WELD ON 4,1760-

BOARD OF COUNTY COMMISSIONERS

Attest

Thomas H. Kaner Blogd a Parke Hogel a Parcon 1. Resements as shown on this plat for installation and maintenance of utilities, not installation case or transformation though have been reserved as shown on the recorded plat, and shall be subject at all times to the proper Nivi. Automatics and to the easements herein reserved. No permanent or other structure shall be created or maintained upon said easements, but such Owners shall take their title subject to the right of the rubile Utilities and to the right of the owners of the other lots in this addition to said easement herein granted for ingress and egress in, along, across and through the strips so reserved. No planting of trees shall be done on the toperance essement.

8. There are strips of ground of a width shown on this plat and marked "utility and procedure easement" which are subject to the easement as set forth in Item numbered 7 above and also subject to trainage both surface and underground, over and under which may be constructed open drainage dittness and underground sewers; these strips are subject at all times to the proper authorities and to the easement herein granted for ingress and egress for the surpasses of drains, dittness, herein set forth.

9. No nexicus or offensive activity shall be carried on upon any lot, nor shall anything be done thereon which may be or may become an annoyance or maisance to the neighborhood.

IC. structure of a temporary character, trailer, basement, tent, shack, garage, barn or other outsillding shall be used on any lot at any time as a residence either temporary or permanently.

ii. We animals, livestock or poultry of any kind shall be raised, ared, or kept on any lot, except 10%s, dats or other household pets may be kept provided that they were not kept, ared, or maintained for any commercial purposes.

12. No lot shall be used or maintained as a dumping ground for rubbish. Trash, garbage or other waste shall not be kept except in sanitary containers. All incinerators or other equipment for storage or disposal of such material shall be kept in a divan and sanitary condition.

13. Until such a time as a sanitary sewer system is available for use in this addition, no sewage disposal method may be installed, constructed or maintained except a method or type and construction as approved by the indiana State Board of Health in writing, such approval to be maintained for any and all lots either separately or collectively and no other sanitary provisions or nevice shall be employed or permitted to remain on any lot in this addition. In the event of the availability of a sanitary sewer system, each and every lot shall be connected to the said sewer system. The owners of the lots at the time of the availability of a sewer system shall be responsible for this connection and the platter shall not be need liable if an approved septic tank and absorption

14. Until an approved water supply is available in this addition, individual wells will be permitted, providing such well is located, constructed and equipped in accordance with the approval of the Indiana State Board of Health.

15. These covenants are to run with the land and shall be cinding on all parties and all persons claiming under them for a period of twenty-five (25) years from the date these covenants are recorded, after which time said covenants shall be automatically extended for successive periods of ten (10) years unless an instrument signed by a majority of the owners of the lots has been recorded, agreeing to change said covenants in whole or in part.

16. Invalidation of any one of these covenants by judgment or court order shall in no wise affect any of the other provisions which shall remain in full force and effect.

17. The right to enforce these provisions by injunction, together with the right to cause the removal, by due process of law of any structure or part thereof erected or maintained in violation hereof, is hereby dedicated to the public, and reserved to the several owners of the lots in this subdivision and to their heirs and assigns.

18. No improvements shall be erected or placed on any of the lots in this addition until the building plans have been approved in writing by the majority of a committee composed of Stanley Valinet, Mary Valinet, and William H. Traylor for the conformity of external design with existing structures in this area. In the event of the death or resignation of any member or members of this committee, the surviving member or members shall have the authority to approve or disapprove such design and location. If said committee shall fail to approve or disapprove such design or location within ten days after said plans have been submitted or if no suit to enjoin the erection of such improvements shall have been commenced within 30 days after the completion thereof, such approval shall not be required. Said committee shall act and serve without compensation until January 1, 1971, at which time the ten recorded owners of the majority of the lots in this addition may designate in writing, duly recorded among the land records of Hamilton County, their authorized representatives who thereafter shall have all the powers, subject to the above limitations, as were previously delegated herein to said committee.

IN WITHESS WHERE the Valley Development Co., Inc., by Stanley Valinet, its president, and Mary Valinet, its becretary; and Paul A. Todd and Mabel Todd, his wife, have caused this instrument to be executed this 16 The Lay of DECEMBER 1:59.

BY: Stanley Walnut

Stanley Varinet, President

BY: Mary Valinet Secretary

Paul A. Todd, Owner

Mabel Jodd

STATE OF INDIANA)

COUNTY OF MARION)

Before me, the undersigned a Notary Public, in and for said State and County, appeared the Valley Development Co., Inc., by Stanley Valinet, its President, and Mary Valinet, its secretary, and acknowledged the execution of the foregoing instrument for the purposes therein expressed. Witness my hand and notarial seal this 16 m day of DECEMBER, 1959.

Jeannette Crowe
Notary Public

My Comession expires June 23, 1962

STATE OF INDIANA)

COUNTY OF

My commission expires January 13, 1963

This instrument was prepared by P. W. Moore

Frank W. Cauffell Motary Public

1.56
.8
.8
.8
.8
.10 \pm ATLEACT

1.45

1.73

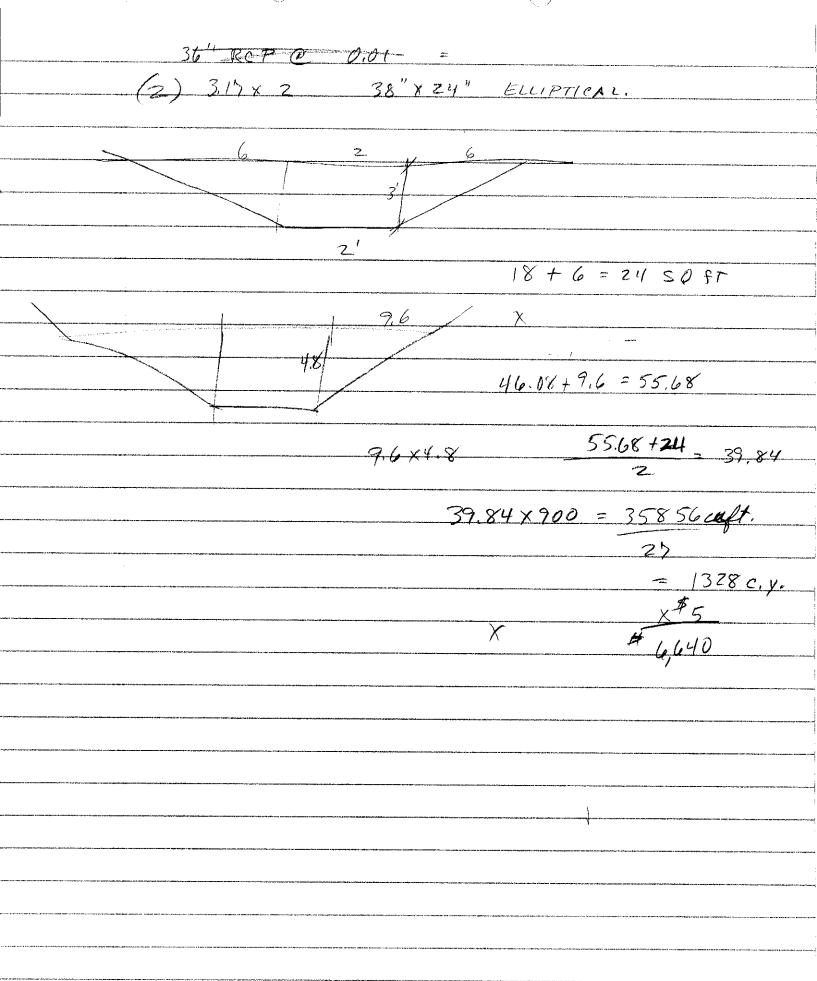
C= 0.45

1.78

Q I = 3.5 = 15.75 Cfs

8.62

Q I = 4.5 = 20.25 Cfs



CURRENT DATE: 09-09-1997

CURRENT TIME: 14:02:02

FILE DATE: 09-09-1997

FILE NAME: 111TH

AAAAAAAAAAAAAAAAAAAAAAAAAA HY-8, VERSION 4.0 **ZAKAKAKAKAKAKAKAKAKAK** 3 C 3 SITE DATA 3 CULVERT SHAPE, MATERIAL, INLET ³ L ³ INLET OUTLET CULVERT 3 BARRELS ³ V ³ ELEV. ELEV. LENGTH ³ SHAPE SPAN RISE MANNING INLET (FT) (FT) 3 MATERIAL (FT) (FT) (FT) TYPE n з 1 з 35.00 ³ 2 RCPE 0.35 0.00 3.17 2.00 .012 CONVENTIONAL3 2^{-3} 38" 24 " 3 3 4 3 з 5 з ³ 6 ³

| AAAAAAAAAA | Kararaka | Kaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa | XXXXXX | <u> </u> | KAKKKAKK | Kararara | Kaaaa | <u> </u> |
|---|-----------|---------------------------------------|--------|----------|----------|----------|-------|--------------|
| SUMMARY OF | CULVERT I | FLOWS (CFS) | | FILE: 3 | 111TH | | DATE: | : 09-09-1997 |
| ELEV (FT) | TOTAL | 1 | 2 | 3 | 4 | 5 | 6 | ROADWAY ITR |
| 0.35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 1 |
| 1.43 | 11 | 11 | 0 | 0 | 0 | 0 | 0 | 0 1 |
| 1.93 | 22 | 22 | 0 | 0 | 0 | 0 | 0 | 0 1 |
| 2.38 | 33 | 33 | 0 | 0 | 0 | 0 | 0 | 0 1 |
| 2.86 | 44 | 44 | 0 | 0 | 0 | 0 | 0 | 0 1 |
| 3.34 | 55 | 55 | 0 | 0 | 0 | 0 | 0 | 0 1 |
| 3.60 | 66 | 56 | 0 | 0 | 0 | 0 | 0 | 99 |
| 3.63 | 70 | 55 | 0 | 0 | 0 | 0 | 0 | 15 5 |
| 3.76 | 88 | 47 | 0 | 0 | 0 | 0 | 0 | 40 5 |
| 3.83 | 99 | 42 | . 0 | 0 | 0 | 0 | 0 | 57 5 |
| 3.89 | 110 | 36 | 0 | 0 | 0 | 0 | 0 | 73 4 |
| 3.50 | 58 | 58 | 0 | 0 | 0 | 0 | 0 0 | OVERTOPPING |
| <u>ZACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</u> | | | | | | | | |

| HEAD | HEAD | TOTAL | FLOW | % FLOW |
|----------|------------|------------|-------------|--------|
| ELEV(FT) | ERROR (FT) | FLOW (CFS) | ERROR (CFS) | ERROR |
| 0.35 | 0.00 | 0 | 0 | 0.00 |
| 1.43 | 0.00 | 11 | 0 | 0.00 |
| 1.93 | 0.00 | 22 | 0 | 0.00 |
| 2.38 | 0.00 | 33 | 0 | 0.00 |
| 2.86 | 0.00 | 44 | 0 | 0.00 |
| 3.34 | 0.00 | 55 | 0 | 0.00 |
| 3.60 | -0.00 | 66 | 1 | 0.79 |
| 3.63 | -0.00 | 70 | 1 | 0.76 |
| 3.76 | -0.01 | 88 | 1 | 0.96 |
| 3.83 | -0.00 | 99 | 0 | 0.27 |
| 3.89 | -0.01 | 110 | 1 | 0.71 |
| | | | | |

CURRENT DATE: 09-09-1997 FILE DATE: 09-09-1997 CURRENT TIME: 14:02:02 FILE NAME: 111TH PERFORMANCE CURVE FOR CULVERT # 1 - 2 (3.166667 BY 2) RCPE DIS-HEAD- INLET OUTLET رال المال والمهال الموادات الموادات المواد ا CHARGE WATER CONTROL CONTROL FLOW NORMAL CRITICAL OUTLET TAILWATER FLOW ELEV. DEPTH DEPTH TYPE DEPTH DEPTH VEL. DEPTH VEL. DEPTH (ft) (ft) (ft) <F4> (ft) (ft) (fps) (ft) (fps) (ft) 0.35 0.00 0.00 0-NF 0.00 0.00 0.00 0.00 0.00 0.00 0 1.08 3-M1t 0.46 0.63 1.58 3-M1t 0.66 0.90 0.82 11 1.43 1.58 1.30 1.85 1.30 22 1.93 1.27 2.28 1.79 2.21 1.79 33 2.38 1.64 2.03 4-FFt 0.83 1.13 3.22 2.00 2.45 2.14 44 2.86 1.95 2.51 4-Fft 0.97 1.32 4.29 2.00 2.63 2.43 55 3.34 2.28 2.99 4-FFt 1.11 1.48 5.36 2.00 2.79 2.68 56 3.60 2.32 3.25 4-FFt 1.13 1.50 5.50 2.00 2.92 2.90 55 3.63 2.28 3.28 4-FFt 1.11 5.36 2.00 1.48 2.96 2.97 3.41 4-FFt 3.76 47 2.03 1.01 1.37 4.56 2.00 3.14 3.28 3.48 4-FFt 42 3.83 1.89 1.28 0.94 4.06 2.00 3.23 3.45 36 3.54 4-FFt 0.87 3.89 1.72 1.18 3.50 2.00 3.32 3.60 El. inlet face invert 0.35 ft El. outlet invert 0.00 ft El. inlet throat invert El. inlet crest 0.00 ft 0.00 ft **** SITE DATA **** CULVERT INVERT ******** INLET STATION (FT) 35.00 INLET ELEVATION (FT) 0.35 OUTLET STATION (FT) 0.00 OUTLET ELEVATION (FT) 0.00 NUMBER OF BARRELS SLOPE (V-FT/H-FT) 0.0100 CULVERT LENGTH ALONG SLOPE (FT) 35.00 **** CULVERT DATA SUMMARY **************** BARREL SHAPE ELLIPTICAL BARREL SPAN 3.17 FT BARREL RISE 2.00 FT BARREL MATERIAL CONCRETE BARREL MANNING'S N 0.012 INLET TYPE CONVENTIONAL INLET EDGE AND WALL GROOVED END PROJECTING INLET DEPRESSION NONE

CURRENT DATE: 09-09-1997

CURRENT TIME: 14:02:02

FILE DATE: 09-09-1997

FILE NAME: 111TH

****** REGULAR CHANNEL CROSS SECTION ************************

BOTTOM WIDTH (FT) 2.00

SIDE SLOPE H/V (X:1) 2.0

CHANNEL SLOPE V/H (FT/FT) 0.002

MANNING'S N (.01-0.1) 0.030

CHANNEL INVERT ELEVATION (FT) 0.00

CULVERT NO.1 OUTLET INVERT ELEVATION 0.00 FT

****** UNIFORM FLOW RATING CURVE FOR DOWNSTREAM CHANNEL

| FLOW | W.S.E. | FROUDE | DEPTH | VEL. | SHEAR |
|--------|--------|--------|-------|-------|-------|
| (CFS) | (FT) | NUMBER | (FT) | (FPS) | (PSF) |
| 0.00 | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 |
| 11.00 | 1.30 | 0.286 | 1.29 | 1.85 | 0.16 |
| 22.00 | 1.79 | 0.291 | 1.79 | 2.21 | 0.22 |
| 33.00 | 2.14 | 0.295 | 2.14 | 2.45 | 0.27 |
| 44.00 | 2.43 | 0.298 | 2.43 | 2.63 | 0.30 |
| 55.00 | 2.68 | 0.300 | 2.68 | 2.79 | 0.34 |
| 66.00 | 2.90 | 0.302 | 2.90 | 2.92 | 0.36 |
| 70.00 | 2.97 | 0.303 | 2.97 | 2.96 | 0.37 |
| 88.00 | 3.28 | 0.305 | 3.28 | 3.14 | 0.41 |
| 99.00 | 3.45 | 0.307 | 3.45 | 3.23 | 0.43 |
| 110.00 | 3.60 | 0.308 | 3.60 | 3.32 | 0.45 |

| ROADWAY SURFACE | PAVED |
|----------------------------------|--------|
| EMBANKMENT TOP WIDTH (FT) | 24.00 |
| CREST LENGTH (FT) | 100.00 |
| OVERTOPPING CREST ELEVATION (FT) | 3.50 |

TAPE # 30" at lower end cracked in top of pipe. Circular crack. 14 ft ! 222 230 long. crack 28 ft = ,40, 45, 55, 83, 90, 110, etc. 77 = fad cricks Pochs throughout up to 9"10" ±
180 ± Aug , 212 gravel on botton 235 markole, bend. Chick markole. 10" car cmp? heading south., water, rocks.

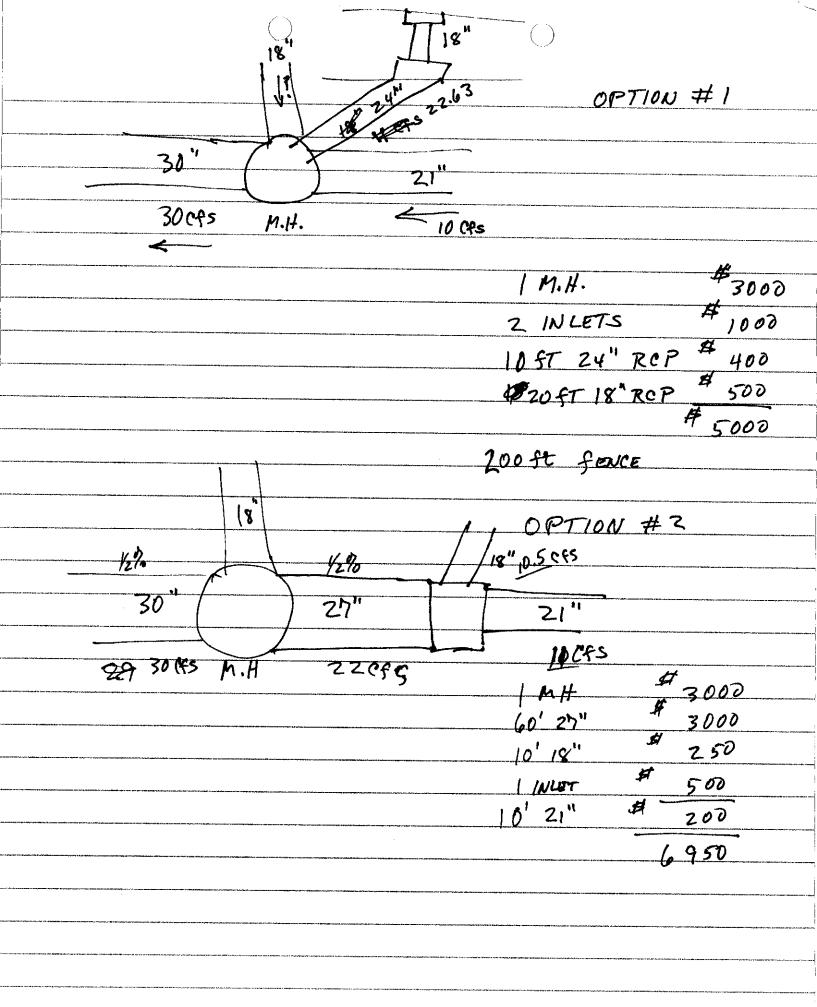
10" cmp head north. 10 ft. 10" & conc. MH 4 TO 5 east. 4" of wales 1 TO 2 EAST BOX 2 TO 3 SOUTH (OVAL-NOW) collapsed - 7-8 ft. 12" CONE 2TO 1 West 14-27 floodel 6"± 2 TO 3 SOUTH? Broken & colleged.

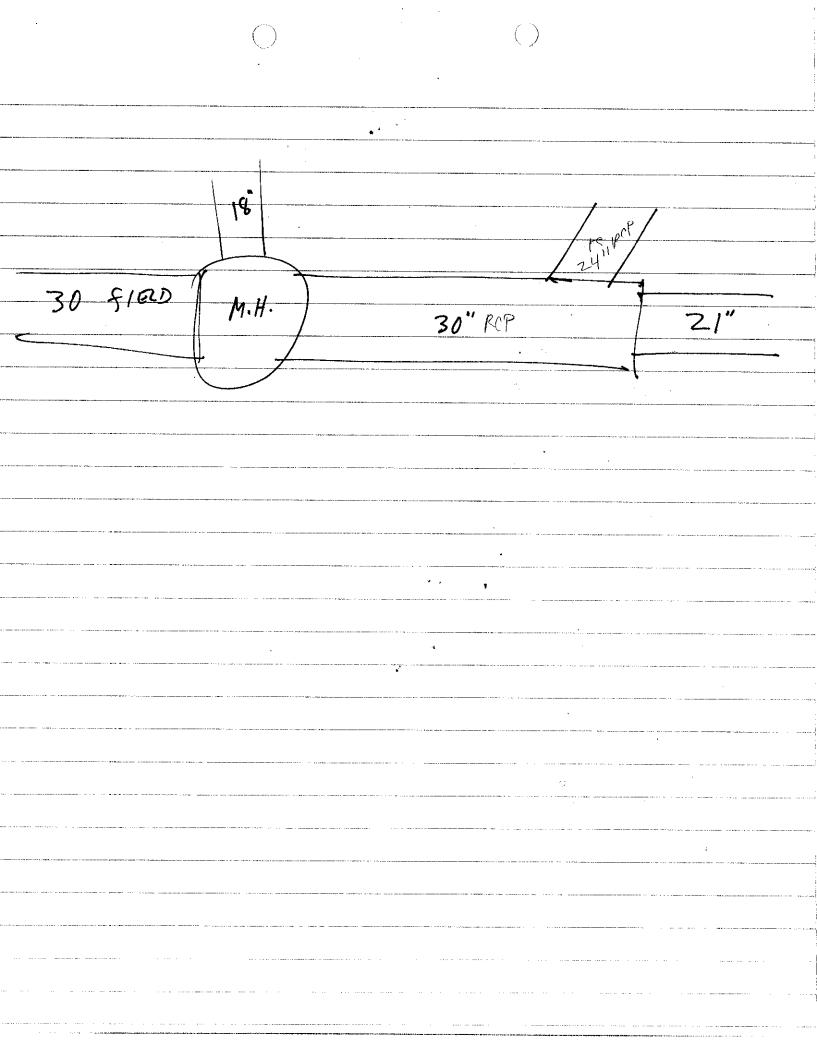
(north) Janualigned Frettled or
North @ 176 3 +0 5 (SQUIH) rooto, rooto & more rooto 78th the? misaliged 52.4 ft. deoped joint 30" cowe. a TOS NORTH 186 misaliquel 18" CONC 7 TO 8 West

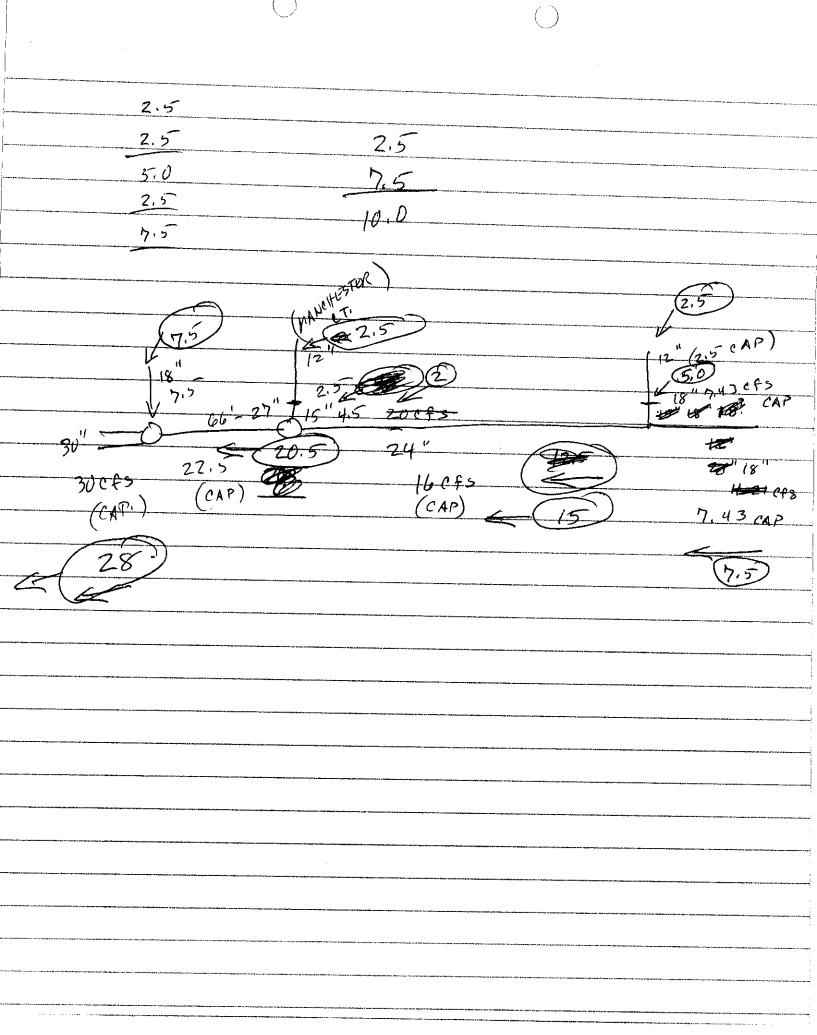
TAPE#2

 \bigcirc

| 21"CONC 7 TO 5 NORTH | Coleft. Pateral, obstruction |
|---------------------------------------|--|
| 12" PUC ZATO IA NORTH IA TO ZA SOUTH | 23 ft. mis joit |
| 12"PVC 24 TO 3 EXST | |
| (2"PUC GATOSA WEST | |
| 21" CONC. 5 TOT SOUTH | 70 ft inisaligned [00 ft lateral (gravel) 4'-5" 150 ft to lateral |
| 12" cove 2 to 1 west | 41 collapse. water in pipe to that point |
| | |
| | |
| | |
| | |







TOTAL FLOW TO CHANNEL

AREA ELEV, 15.2 AC 6 ft. 13.8 AC 1. 3.0 AC (1/4 US31 RW) 9.8AC

1500 ft. 900 ft. (ditel)

FLOW LINE

10 YEAR STORM. W. SIDE US 31 DEVELOPED (COMM.) Ic=18.23m,N In= 4.0 in/min $t_{0.00} = 0.004 \text{ pt.}$ $t_{c}^{2} = 0.0078 \left(\frac{D}{V_{s}}\right)^{0.77} = 0.0078 \left(\frac{1500}{\sqrt{0.004}}\right)^{0.77} = 18.23 \text{ min.}$ Q= CIA = (0.9)(4.0)(15.2) = 54.7 cfs. DEVELOPED (COMM.) TC=21.56MIN I10=3.75 in/min. 13.8AC A-2 C=0.7 Qu = CIA = (0.9)(3.75)(13.8) = 46.58 cfs. (1/4)(12) = 3AC.To= 18 MIN In = 4.0 in /min 12 AC. C= 0.5 Q10 = CIA = (0.5 × 4.0)(3) = 6.0 cfs each side = 6Ac = 12 cfs2500' = 0.004 GRASS 4:1 V-DITCH A.1 to A.2 800' travel time (adj. (tc) avg. slope 0.003 grave lined 2!1 side 4' bottom n = 0,022 S = 0.003 $S^{1/2} = 0.055$ $V = (0.022)(R^{2/3})(0.055) = 3.72(R^{2/3})$ 1 0.794 6 2.95 17.7 2 1.15 /6 4.28 68.5 dose X 1.75 1.074 13.125 4.00 52.5 * work 800 = 200 Sec = 3.33 mi 18.23 min + 3.33 = 21.56 min. S=.004 $S^{\frac{1}{2}}=0.063$ $V=\left(\frac{1.486}{0.025}\right)\left(R^{\frac{2}{3}}\right)\left(0.063\right)=\left(\frac{3.74}{8}\right)\left(\frac{3.74}{8}\right)$ tc= 1,082 sec = 18 min

7/2/97 Q=CIA E. SIDE US31 AREA 1 14 AC. DEVELOPED C= 0.95 8' drop S= 1400 = 0.0057 tc= 0.0078 (1400 0.77 = 15.91 min. 1400 ft. dist. travel 1000 ft. in dital. USE KIRPICH Itc = 0.0078 L 0.77 S-0.385 = (0.0078)(1400)0,77 (0.008) -0,385 = (0.0078)(264.6) (4.42) = 13,25 min. = (0,4)(13,25 min) = 5,3 min FOR ASPHALT OVERLAND V=114 t= 1400 = 1000 Acc = 16.66 min. Q1025 (0,95)(42)(4)= 95.70 Cf5 Q10 = (0.95)(4.3)(14) = 57.2 cfs Channel = - 7000 = 0.003 = n= 0.050 $V = \left(\frac{1,186}{n}\right)\left(\frac{A}{wP}\right)^{2/3}(S)^{3/3}$ S= 0.003 $V = (29.72)(R^{2/3})(0.055) - 1.635(R^{2/3})$ 5 1/2 = 0.055 | R | R^{2/3} | Q (1.635 × R^{2/3} × A) 0.25 6 0.708 0794 7,79 16 0.618 0.726 0.5 HEADWATER LIMIT 18.99 0.574 0.691 30 ON E. SIDE OF 31 0.75 33.89 MAY ONLY POND TO 48 0.548 [1.0 0.670 | 52,58 2.5 TO 3.0 ft. 1.25 0.532 0.657 75.19 70 Q25PASSED 2 25cts 0.655 6 1.50 96 0.530 1 102.81 3 ft. depth a 32 cfs SAY 30 cfs. 15 CFS AT MID POINT FROM US31 45 CFS

1' 0,25 0.708 0.794 6 24.8 4 Hs 0.705 0.96

STA 12+00 =

O RCP CAPACITY (NON-PRESSURE) V= (1.486) (A) (S) (S) n = 0.0130.002 0.785 4.53 3.6 0.01 18" 4.71 0.38 0.52 1.77 2.66 4.71 0.002 5.95 10.53 0.01 24" 3,14 0.5 0.63 6.28 0.002 3,22 10.11 0.01 7.20 22.61 30" 7.85 0.625 0.73 4.91 0,002 374 18.36 5.91 0,005 29.04 1 41.06 0.01 8.36 9.42 0.83 7,07 4.22 0.75 29.85 36" 0,002 47,20 13.3 0.005 0.01 9.44 66.75 10.99 0.88 42" 0.002 9.62 0.92 47 45,24 7.43 71.53 0.005 12.56 12,56 1.00 1,00 64.21 48" 0.002

0.003

6.25 78.64

OVER THE BLAK @ STA 800-700 ± WHERE A-1 \$ A-Z ARE CONFLUENCED 54.7 46.6 MAIN DITCH CAPACITY 101.3 Cfs @ Z' = 36.4 Cfs ESTIMATE OF OURFLOW 101.3 166.9 CFS / OVERLAND TO 111 TH. ST. THROUGH WOODS WOODED AREA 9.8 AC. 1000 ft, 4ft, 5= 0,004 C= 0.2 I= 3.0 TRAVEL TIME (UPLAND METHOD) V= 1.75 f/SEC. 9.5 min. + 21.56 = 3/ MIN. Q = CIA = (0.2)(3.0)(9.8) = 5.9 CfsTOTAL THROUGH TREES 66.9 Cfs. TO 11/TH ST. CONCENTRATION 5.9 Cfs. POINT 72.8 cfs. TOTAL TO CULVERT UNDER 111TH 36.4 CFS /W DITCH 30,0 cfs IN CULVERT UNDER US 131 106.4 Cfs 30 CFS THROUGH 111 TH, ST. CULVERT 36.4 OVERLAND TO IIITH. ST. CONCENTRATION POINT TOTAL CONCENTRATION AT 111TH ST 72.8 36.4 109.2 Cfs.

 $\left(\right)$

()

STEMS TO CARCK US31 @ 111 th.

- BY DEVELOPMENTS, NOTE OUTLET PIPE
 FROM RETENTION POND & ANY EVIDENCE OF
 EROSION, OVER FLOW ETC.
- 2. LOOK FOR DUERFLOW NEAR STA 8+00-9+00.
- 3, LOOK FOR CROSS CULVERTS ACROSS 4531,
- 4. LOOK AT E. SIDE OF US 31 NEAR.

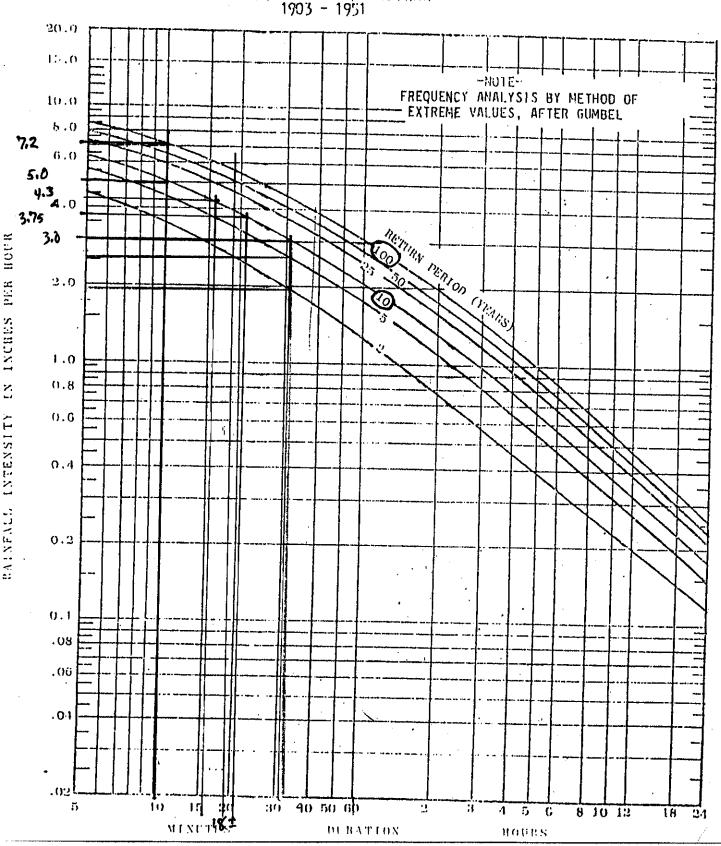
 INLET TO X-CULVERT.
 - 5. CHECK DOWNSTREAM OF CULVERT IN
 111TH. FOR CHANNEL CHARACTER ISTICS,
 - 6. WALK AFTH DOWNSTREAM OF SUBDIV.
- 7. CHECK E, SIDE OF US 31 BELOW

U.S. DEPARTMENT OF COMMERCE

WEATHER EUREAU

COOPERATIVE STUDIES SECTION

RAINFALL INTENSITY - DURATION - FREQUENCY CURVES
INDIANAPOLIS, INDIANA
1903 - 1951



HAMILTON COUNTY SURVEYOR'S OFFI DRAINAGE CALCULATIONS

PROJECT: Suburban Meridian LOCATION: 111th St & Meridian

BY: JLK

CHKD:

DATE: 1/17/1997

DATE:

PAGE: 1

PIPE FROM STR3 TO 111TH ST & TOTTENHAM DR

TR-55 DRAINAGE CALCULATIONS

RUNOFF CURVE NUMBER

| SOIL NAME | HYDR. GROUP | COVER DESCRIPTION | CN | AREA (acres) | Product CN x Area |
|---------------|----------------|--------------------------|----|-----------------|----------------------|
| | | | | | 0 |
| Crosby, CrA | С | Residential, 1/3 Ac Lots | 81 | 2.15 | 174.15 |
| Brookston, Br | В | Residential, 1/3 Ac Lots | 72 | 1.7 | 122.4 |
| | | | | | 0 |
| | | | | i | · 0 |
| | | | | | 0 |
| | | | | | 0 |
| | | | | | 0 |
| | | | | | 0 |
| | | | | | 0 |
| | | | | 3.85 | 296.55 |

WEIGHTED CN: 77.02597

RUNOFF

| | STM #1 | STM #2 | STM #3 |
|-------------------------|------------|------------|------------|
| Frequencyyr | 2 | 5 | 10 |
| Rainfall, P (24-hour)in | 3 | 3.75 | 4.3 |
| Runoff (Q)in | 1.07251562 | 1.62063567 | 2.05137527 |

HAMILTON COUNTY SURVEYOR'S OFFICE DRAINAGE CALCULATIONS

PROJECT: Suburban Meridian LOCATION: 111th St & Meridian

BY: JLK DATE: 1/17/1997

TOTALS

CHECKED: NA DATE: NA

PAGE:

2

TR-55 DRAINAGE CALCULATIONS

TIME OF CONCENTRATION (Tc) OR TRAVEL TIME (Tt)

SHEET FLOW

- 1. Surface Description (table 3-1)
- 2. Manning's Roughness Coeff., n (table 3-1)
- 3. Flow Length, L (total L less than 300')
- 4. Two-year, 24-hour rainfall, P2
- 5. Land Slope, s
- 6. Tt

Bermuda Grass 0.4 280 ft in 0.025 6t/ft 0.7704347 0 0.7704347 hr

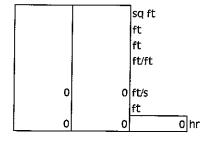
SHALLOW CONCENTRATED FLOW

- 7. Surface Description (paved or unpaved)
- 8. Flow Length, L
- 9. Watercourse Slope, s
- 10. Average Velocity, V (figure 3-1)
- 11. Tt

| | | _ |
|-----------|---|--------------|
| Unpaved | | |
| 125 | | ft |
| 0.005 | | ft/ft |
| 1.15 | | ft/s |
| 0.0301932 | 0 | 0.0301932 hr |

CHANNEL FLOW

- 12. Cross Sectional Flow Area, a
- 13. Wetted Perimeter, Pw
- 14. Hydraulic Radius, r=a/Pw
- 15. Channel Slope, s
- 16. Manning's Roughness Coefficient, n
- 17. Velocity, V
- 18. Flow Length, L
- 19. Tt



20. Total Time of Concentration

0.8006279 hr

HAMILTON COUNTY SURVEYOR'S OFFICE DRAINAGE CALCULATIONS

PROJECT: Suburban Meridian OCATION: 111th St & Meridian

BY: JLK DATE: 1/17/1997 CHECKED: NA

DATE: NA

PAGE:

3

TR-55 DRAINAGE CALCULATIONS

GRAPHICAL PEAK DISCHARGE

Drainage Area: 0.0060156 sq. miles

Runoff Curve Number: 77.025974 Time of Concentration: 0.8006279 hr

Rainfall Distr'n Type:

II (I, IA, II, III)

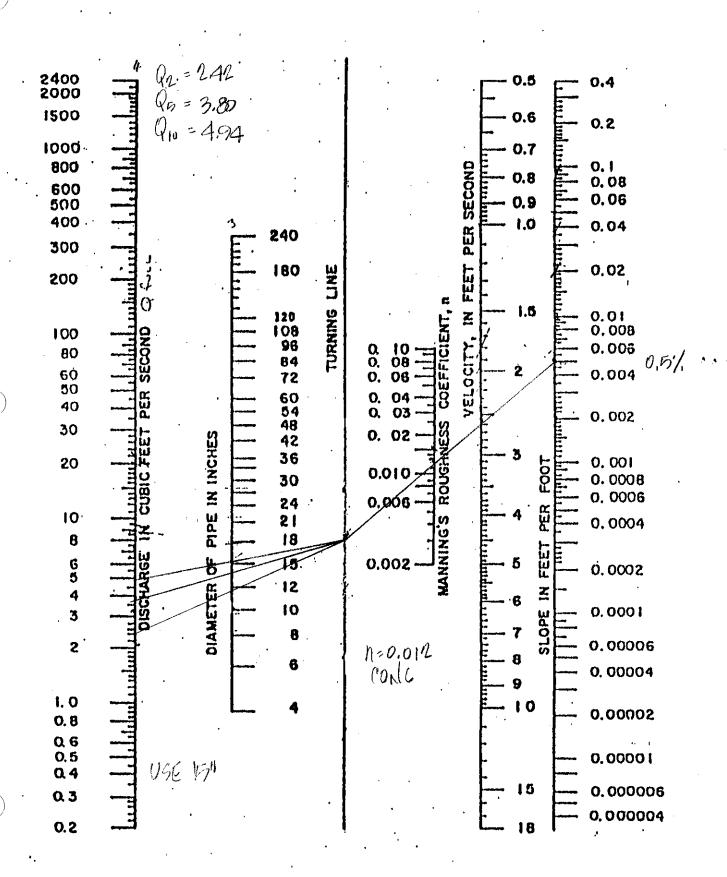
Pond/Swamp Area:

0 % of Drainage Area

| Frequency |
|--------------------------------|
| Rainfall, P (24-hour) |
| Initial Abstraction, la |
| (use CN with Table 4-1) |
| la/P |
| Unit Peak Discharge, qu |
| (use Tc & la/P with exhibit 4) |
| Runoff, Q |
| Pond/Swamp Adj. Factor |
| (use % area with Table 4-2) |
| (factor is 1.0 for 0% area) |
| Peak Discharge, qp |

| _ | | , | |
|--------|-----------|-----------|-----------|
| | STM #3 | STM #2 | STM #1 |
| yr | 10 | 5 | 2 |
| in | 4.3 | 3.75 | 3 |
| in | 0.597 | 0.597 | 0.597 |
| | | | |
| : | 0.1388372 | 0.1592 | 0.199 |
| csm/in | 400 | 390 | 375 |
| | | | |
| în | 2.0513753 | 1.6206357 | 1.0725156 |
| | 1 | 1 | 1 |
| | | | |
| | | | |
| cfs | 4.936122 | 3.802163 | 2.419444 |

NOMOGRAPH FOR SOLUTION OF MANNING'S FORMULA FOR FLOW IN STORM SEWERS



HAMILTON COUNTY SURVEYOR'S OFFICE DRAINAGE CALCULATIONS

PROJECT: Suburban Meridian LOCATION: 111th St & Meridian

BY: JLK

CHKD:

DATE: 01/17/97

DATE:

PAGE: 1

PIPE FROM STR 5 TO STR 3

TR-55 DRAINAGE CALCULATIONS

RUNOFF CURVE NUMBER

| SOIL NAME | HYDR. GROUP | COVER DESCRIPTION | CN | AREA (acres) | Product CN x Area |
|---------------|----------------|--------------------------|----|-----------------|----------------------|
| | | | | | 0 |
| Crosby, CrA | С | Residential, 1/3 Ac Lots | 81 | 1.5 | 121.5 |
| Brookston, Br | В | Residential, 1/3 Ac Lots | 72 | 2.5 | 180 |
| | | | | | 0 |
| | | | | | 0 |
| | | | | | 0 |
| | | | | | 0 |
| | | | | | 0 |
| | | | | | 0 |
| | | | | I | 0 |
| | | | | 4 | 301.5 |

WEIGHTED CN:

75.375

RUNOFF

| | STM #1 | STM #2 | STM #3 |
|-------------------------|------------|------------|------------|
| Frequencyyr | 2 | 5 | 10 |
| Rainfall, P (24-hour)in | 3 | 3.75 | 4.3 |
| Runoff (Q)in | 0.98092747 | 1.50684135 | 1.92341132 |

HAMILTON COUNTY SURVEYOR'S OFFICE DRAINAGE CALCULATIONS

PROJECT: Suburban Meridian LOCATION: 111th St & Meridian

BY: JLK DATE: 1/17/1997

TOTALS

CHECKED: NA

DATE: NA

PAGE:

2

TR-55 DRAINAGE CALCULATIONS

TIME OF CONCENTRATION (Tc) OR TRAVEL TIME (Tt)

SHEET FLOW

- 1. Surface Description (table 3-1)
- 2. Manning's Roughness Coeff., n (table 3-1)
- 3. Flow Length, L (total L less than 300')
- 4. Two-year, 24-hour rainfall, P2
- 5. Land Slope, s
- 6. Tt

Bermuda Grass 0.4 80 ft in 0.05 ft/ft 0.2143233 0 0.2143233

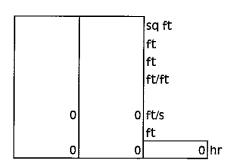
SHALLOW CONCENTRATED FLOW

- 7. Surface Description (paved or unpaved)
- 8. Flow Length, L
- 9. Watercourse Slope, s
- 10. Average Velocity, V (figure 3-1)
- 11. Tt

| Unpaved | | |
|-----------|---|--------------|
| 450 | | ft |
| 0.005 | | ft/ft |
| 1.15 | | ft/s |
| 0.1086957 | 0 | 0.1086957 hr |

CHANNEL FLOW

- 12. Cross Sectional Flow Area, a
- 13. Wetted Perimeter, Pw
- 14. Hydraulic Radius, r=a/Pw
- 15. Channel Slope, s
- 16. Manning's Roughness Coefficient, n
- 17. Velocity, V
- 18. Flow Length, L
- 19. Tt



PROJECT: Suburban Meridian OCATION: 111th St & Meridian

BY: JLK **DATE: 1/17/1997** CHECKED: NA

DATE: NA PAGE:

3

TR-55 DRAINAGE CALCULATIONS

GRAPHICAL PEAK DISCHARGE

Drainage Area:

0.00625 sq. miles

Runoff Curve Number:

75.375 Time of Concentration: 0.323019 hr

Rainfall Distr'n Type:

II (I, IA, II, III)

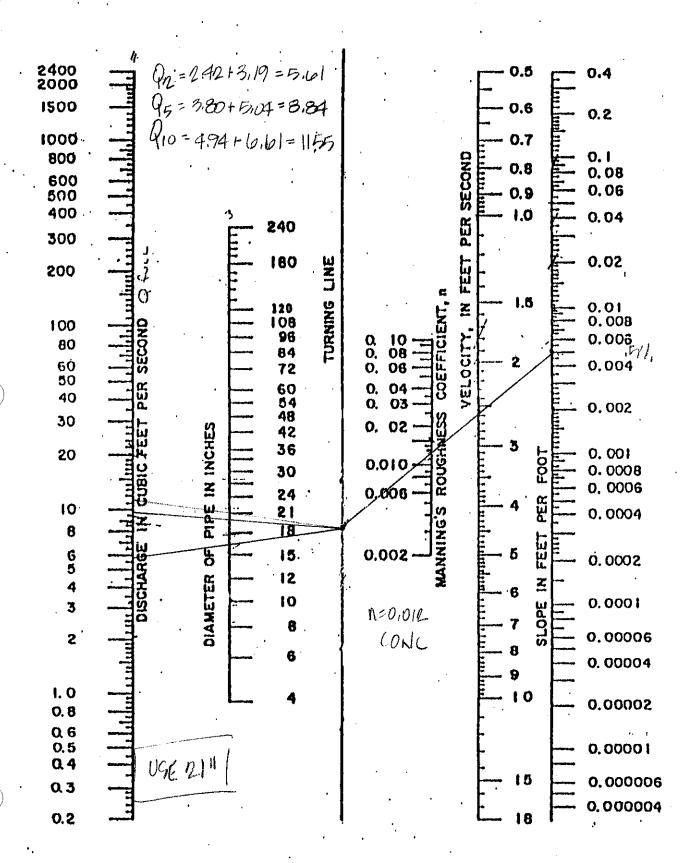
Pond/Swamp Area:

0 % of Drainage Area

| Frequency |
|--------------------------------|
| Rainfall, P (24-hour) |
| Initial Abstraction, la |
| (use CN with Table 4-1) |
| la/P |
| Unit Peak Discharge, qu |
| (use Tc & la/P with exhibit 4) |
| Runoff, Q |
| Pond/Swamp Adj. Factor |
| (use % area with Table 4-2) |
| (factor is 1.0 for 0% area) |
| Peak Discharge, qp |

| STM #1 | STM #2 | STM #3 |] |
|-----------|-----------|-----------|--------|
| 2 | 5 | 10 | yr |
| 3 | 3.75 | 4.3 | in |
| 0.654 | 0.654 | 0.654 | in |
| | | | |
| 0.218 | 0.1744 | 0.152093 | |
| 520 | 535 | 550 | csm/in |
| | | | |
| 0.9809275 | 1.5068413 | 1.9234113 | in |
| 1 | 1 | 1 | |
| | | | |
| | | | |
| 3.188014 | 5.038501 | 6.611726 | cfs |

NOMOGRAPH FOR SOLUTION OF MANNING'S FORMULA FOR FLOW IN STORM SEWERS



PROJECT: Suburban Meridian LOCATION: 111th St & Meridian

BY: JLK

CHKD:

DATE: 1/17/1997

DATE:

PAGE: 1

PIPE ALONG 111TH STREET (111TH & TOTTENHAM TO 15" CMP UNDER 111TH)

TR-55 DRAINAGE CALCULATIONS

RUNOFF CURVE NUMBER

| SOIL NAME | HYDR. GROUP | COVER DESCRIPTION | CN | AREA (acres) | Product CN x Area |
|---------------|----------------|--------------------------|----|-----------------|----------------------|
| | - | | - | (40.00) | 0 |
| Crosby, CrA | С | Residential, 1/3 Ac Lots | 81 | 0.1 | 8.1 |
| Brookston, Br | В | Residential, 1/3 Ac Lots | 72 | 0.3 | 21.6 |
| | | | | | o |
| | | | | | 0 |
| | | _ | | | 0 |
| | | | | | 0 |
| | | | | | 0 |
| | | | | | 0 |
| | | | | | 0 |
| | | | | 0.4 | 29.7 |

WEIGHTED CN:

74.25

| | STM #1 | STM #2 | STM #3 |
|-------------------------|------------|------------|------------|
| Frequencyyr | 2 | 5 | 10 |
| Rainfall, P (24-hour)in | 3 | 3.75 | 4.3 |
| Runoff (Q)in | 0.92121408 | 1.43178669 | 1.83847135 |

PROJECT: Suburban Meridian LOCATION: 111th St & Meridian

BY: JLK

CHECKED: NA

DATE: 1/17/1997

TOTALS

DATE: NA

PAGE:

2

TR-55 DRAINAGE CALCULATIONS

TIME OF CONCENTRATION (Tc) OR TRAVEL TIME (Tt)

SHEET FLOW

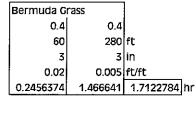
- 1. Surface Description (table 3-1)
- 2. Manning's Roughness Coeff., n (table 3-1)
- 3. Flow Length, L (total L less than 300')
- 4. Two-year, 24-hour rainfall, P2
- 5. Land Slope, s
- 6. Tt

SHALLOW CONCENTRATED FLOW

- 7. Surface Description (paved or unpaved)
- 8. Flow Length, L
- 9. Watercourse Slope, s
- 10. Average Velocity, V (figure 3-1)
- 11. Tt

CHANNEL FLOW

- 12. Cross Sectional Flow Area, a
- 13. Wetted Perimeter, Pw
- 14. Hydraulic Radius, r≔a/Pw
- 15. Channel Slope, s
- 16. Manning's Roughness Coefficient, n
- 17. Velocity, V
- 18. Flow Length, L
- 19. Tt



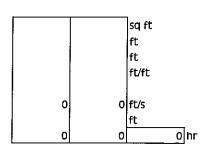
ft

ft/ft

ft/s

0 hr

Unpaved



20. Total Time of Concentration

1.7122784 hr

PROJECT: Suburban Meridian OCATION: 111th St & Meridian

BY: JLK **DATE: 1/17/1997** CHECKED: NA DATE: NA

PAGE:

3

TR-55 DRAINAGE CALCULATIONS

GRAPHICAL PEAK DISCHARGE

Drainage Area: 0.000625 sq. miles

Runoff Curve Number: 74.25 Time of Concentration: 1.7122784 hr

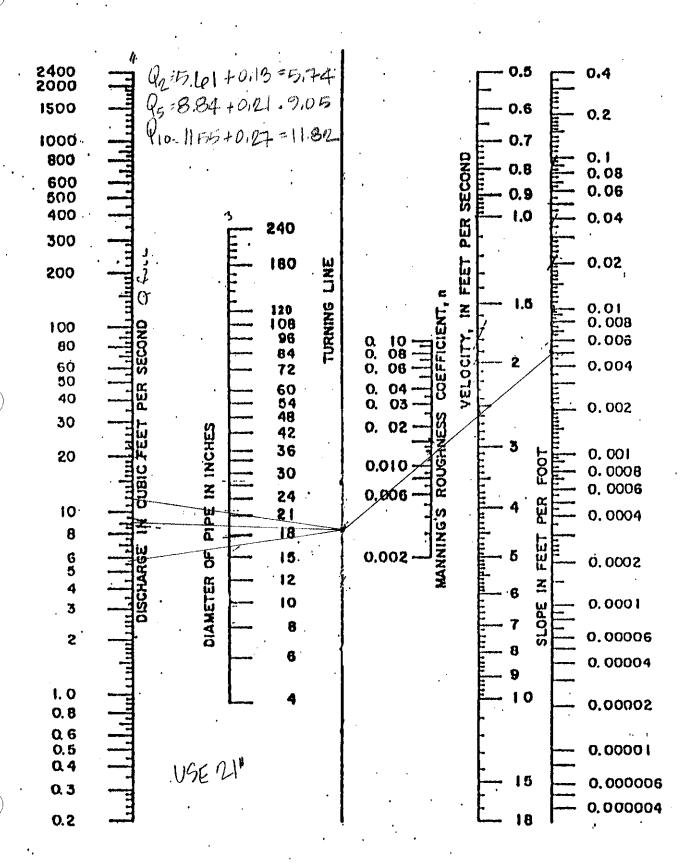
Rainfall Distr'n Type: II (I, IA, II, III)

Pond/Swamp Area: 0 % of Drainage Area

Frequency Rainfall, P (24-hour) Initial Abstraction, la (use CN with Table 4-1) Ia/P Unit Peak Discharge, qu (use Tc & la/P with exhibit 4-__) Runoff, Q Pond/Swamp Adj. Factor (use % area with Table 4-2) (factor is 1.0 for 0% area) Peak Discharge, qp

| STM #1 | STM #2 | STM #3 | |
|------------------|-----------|-----------|--------|
| 2 | 5 | 10 | yr |
| 3 | 3.75 | 4.3 | in |
| 0.694 | 0.694 | 0.694 | in |
| | | | |
| 0.2313333 | 0.1850667 | 0.1613953 | |
| 225 | 235 | 240 | csm/in |
| | | | |
| 0.9212141 | 1.4317867 | 1.8384714 | in |
| 1 | 1 | 1 | |
| | | ' | |
| | | | |
| <u>0</u> .129546 | 0.210294 | 0.275771 | cfs |

NOMOGRAPH FOR SOLUTION OF MANNING'S FORMULA FOR FLOW IN STORM SEWERS



SUBURBAN MERIMAN

- 1. CALCO ARE ON TELLOW NOR
- 2. I USED ONLY TR. FOR
- 3. MY SIZES ALLE ON AERIAL (WATERSHEDS)
 - -181
 - -214
 - -21"

TOTTENHAN

.23 ni = 1215 feet

RCP 600'@ 24" = \$35

21,000

RCP 615'@ 30" = \$45

27,675

2 INLETS @ 2000 =

4000

RESEED: 1215x15x.10 =

1823

BONTRACT PREP. = \$2000

VIDEO PIPE @ 2x 1215 \$ #2430 + BACKHOR 1000

LOR#110/HR)

TRAFFIC CONTROL

= #800

60,728

INVESTIGATE ONLY - PRIVATIZE OR IN HOUSE ENGINEERING - O.T.
BID OR QUOTE.

RESIDENTS HAVE COVERED SOME OF THE INLETS, WE MAY FIND MORE.

NEED ADDITIONAL FROM COUNCIL

102.000.3107 DRAIN REPAIRS (\$50,000)
102.000.4016 CULVERTS, TILE, PIPE (50,000

#20,000.00 #9,000.00

HOMES **4** 111/ H-1247-042 CT. MANCHESTER .04 H-1293-001 MERSEY CT. .04 H-1896-001 TOTTENHAM .23 . 31 3(HOMES SAY 62 VEHICLES SAY 31×2.5 = 775 RESIDENTS

This does not include any activities which are of a general nature ie snow removal, simple cleaning of inlets teto which are not charged to a specific street. Also their would not then include these residents use of any of the rest of the county was roads.

MILEAGE BASED COSTS ONLY = 26,997 ÷ 670.76 = 46.25 years

MILE AVG = 3,192, 928 ÷ 912 = \$3501.02 × 31 = \$1085.32

26,997 + 1085.32 = 24.9 YEARS

TILE AUG = (2488492+758,614) ÷ 946 = #3432

SEP-20-96 FRI 14:11 HULL FLECK & FREE

STEVEN A. HOLT

GILDA W. CURRIER

JULIA S. WEAVER

K. SEAN FLECK

HOLT, FLECK & FREE

Attorneys at Law

TESTE NYE HTUDE CO

Noblesville, Indiana 46060 (317) 775-3897

(317) 773-3997 (800) 404-0300

FACSIMILE (317) 773-5960 97 WEST JACKSON STREET GICERO, INDIANA 46034 (317) 984-5626

> OF COUNSEL STEPHEN H, FREE

TELECOPY MEMORANDUM

| DATE: | September 20, 1996 | | | |
|-------------|----------------------------|---|---|--|
| TO: | Les Locke | | | |
| FROM: | Steven A. Holt | | · · · · · · · · · · · · · · · · · · · | |
| NUMBER OF P | AGES, INCLUDING THIS PAGE: | 4 | | |

IMPORTANT-PLEASE READ

The information contained in this facsimile message is intended only for the personal and confidential use of the designated recipients named above. This message may be an attorney-client communication and as such is privileged and confidential. If the reader of this message is not the intended recipient, you are hereby notified that you have received this document in error, and that any review, dissemination, distribution or copying of this message is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return the original message to us by mail. Thank you.

IF THERE ARE ANY PROBLEMS WITH THIS TRANSMISSION, PLEASE TELEPHONE US AT (317) 773-5997.

Meridian Suburban

Neighborhood Newsletter

Urgent Call To Action

EXTREMELY URGENT!!

The quality of our neighborhood could be affected by your action!

HERE'S THE SITUATION

The Hamilton County Highway Department is responsible for our streets and our storm sewers. As you probably know, our storm sewers do not work because of a collapse along Tottenham, somewhere between Mersey and Manchester. We know the collapse is somewhere in this one block area because we have good flow north of Mersey and south of Manchester. The storm sewers were designed and installed about 30 years ago. We believe they are adequate for our neighborhood if in working condition. They were not designed to handle all the water, leaves, sticks, and crud that flows from the woods across 111th Street into our streets. We believe the cause of the collapsed storm sewer was clearly contributed to by the 20 year overflow from the woods. This situation has existed since they began to develop the southwest corner of 116th and Meridian over 20 years ago. Therefore our storm sewers have had massive overuse. The County Highway has known about this problem for two decades! We've suffered floods, mud and crud every fall, winter and spring for 20 years. Every spring the County Highway would eventually come out to clean the sewers, clear the blockage and allow the standing water to drain away. We are now pleased to see that the woods have been cleared a bit, and hope it will be graded so perhaps the overflow might stop. Keep fingers crossed! But either way our storm sewers are still not working!

HERE'S THE PROBLEM

Some storm sewers are maintained by the County Highway and others are maintained by the County Drainage Board. Certain county officials are now saying that over 25 years ago, the formal paperwork to officially turn our storm sewers over to the county was apparently not properly completed by the developer (Mr. Valinet). Therefore we are not an officially regulated drain and the Hamilton County Drainage Board has taken a position that they will not maintain or rebuild our storm sewers. They want us to petition to become a regulated drain. They want us to pay for engineering studies. They want us to pay to fix our storm sewers. And then we would pay to become a regulated drain. They would then begin maintenance. They won't give any cost estimates, but we have heard figures from \$30,000 and up! This would be assessed equally to each homeowner. We don't think this is the right way to go. We think the County Highway should continue to maintain our storm sewers as they have for over 25 years.

SEP-20-96 FRI 14:12 HULL FLECK & FREE

- US

TO :97735963

r \$95 . Ø5 - ⊋n

01:51FM #719 P.M.

We believe the County Highway should fix our storm sewers ... and we would like them to do it now while our streets are torn up. The primary reason we believe they should fix our storm sewer is because they have maintained and serviced the storm sewer already for over 25 years! Now they decide they don't want to! There is a precedent of over 25 years for them maintaining, servicing, and yes, even fixing our storm sewers! Now they arbitrarily decide to quit. We don't believe this is right. Why didn't they take this position 23 years ago, 17 years ago, 8 years ago, 4 years ago? It's not right. They have fixed and replaced segments of our storm sewers before, including some much needed and extensive work just 3 and 4 years ago! This included pipe replacement, and continued cleanouts this past spring. There is a track record here. They should not just arbitrarily quit.

We believe most residents do not oppose being a regulated drain. The annual cost is nominal. But we do not believe we should have to fix the sewer first out of our own pocket in order to become regulated. A petition was distributed over a month ago to ask the drainage board to consider our storm sewers to become regulated. Drainage board member and county commissioner Sharon Clark suggested we not submit the petition because of concern over high costs. Therefore we have not submitted the petition. Let's get the County Highway to fix the storm sewer first! Now!! Even if it delays repaving the road for a week or two. Let's get it done right, and done now, so we won't have our new road torn up later!

There are additional arguments for them to fix our storm sewer. A big reason for the collapsed storm sewer is because of overuse which was allowed by the county! They have allowed the overflow to continue for almost 25 years without intervention. During heavy rain and flooding they put a big portable sign up on 111th Street, warning drivers of the flooded road. But that's about it, until spring when they clean out the clog. Their neglect contributed to the problem.

Another reason they should fix the storm sewer is the fact that sump pumps are not allowed to be dumped into the new sanitary sewer, nor Into the street. It is against the law. But without another place to put it, people will potentially continue to dump into the street, keeping the new pavement wet, soft and easily damaged. The county has admitted that if the homeowner does not have an alternate place to dump the sump water (like into the storm sewer) they will not enforce the street dump. This is an invitation to continue dumping on the new road, causing premature damage. Let's stop this potential problem before it happens. It takes action now!

THIS IS WHAT WE CAN DO TO FIX IT! NOW!

With polite urgency we ALL need to get on the phone NOW! The squeaky wheel gets the grease. You will probably get a run-around so expect it. Call all the officials twice a week beginning today. If you have a spouse, have them call separately. Give your name, address and phone number. Tell them you would like the storm sewers fixed now, while it's smart to do it. Some of us have called. We've been politely put off by the bureaucratic shuffle. But if we all call it will be hard to ignore! Be polite, but persistent. Call everyone and don't fall for their story about being unregulated. They have maintained it before, they can do it now. It's a matter applying pressure and decision makers finally saying "Oh what the @%*#! Just go fix the #&\$%@ thing!" Again, they've done it before. No matter what they tell you, the commissioners have the ability to get it fixed tomorrow if they want. In the past, they have said no, no, no, and no! Then all of a sudden they do it. Sometimes the day after they said no. Perhaps you can end each conversation by asking them to look into it and that was will follow as with a sudden they do it.

PROM : GENE B. GLICH

: 9773994)

₹35.09-20

01:51PM #719 P.U.

Please make these calls! We have an opportunity to improve our neighborhood in a very big way! The summer has been long and ugly, and when finished, our development will look great cosmerically. Let's not allow it to degrade and be worse than it has to be because of storm sewers that do not work. Fix it now while the roads are torn up. We can win this one but it requires action from all of us!

Action Call List

Commissioner Steven C. Dillinger, President of the Commissioners Board (this term) 773-8888

> This is the number at his insurance agency. As a part-time commissioner, he expects calls at his business office as well as at home, if you are so inclined. Call, There are three commissioners, all are the major decision makers!

Commissioner Sharon Clark 844-1316

This is her home number. As a home naker she takes all calls at home. As one of three commissioners she has tremendous influence, seems diligent and very sympathetic to our situation. We think we could have her support but let's all call everyone on this list to create a tidal wave. Remember the sqeaky wheel. Call.

Commissioner Steven A. Holt, Attorney 773-5997

This is his office number. Also call at home if so inclined. He has been very neutral about our situation. Perhaps hung up on bureaucratic technicalities and legalities of the situation. Pure speculation since he is a lawyer. Call! Make him tired of hearing from us. Push the fact that there is a 25 year precedent.

Administrative Office of the Hamilton County Board of Commissioners Fred Swift, Administrative Assistant to the Commissioners 776-9719

Fred seems to be a very nice Individual. Has the ear of all commissioners! Probably well organized, knows our situation, will probably try to put us off. Let's be nice but persistent. Bother them with calls untill they fix it! These are our government service providers. Let's get what we need, and what is right for our neighborhood!

Hamilton County Highway Department Tom Stevens, Director 773-7770

Tom is on vacation until the last week of September. Call anyway, leave messages, create a storm. Be polite but persistent. This is the department that needs to fix our storm sewer. They don't want to! Call, call, call. These folks communicate with the commissioners daily! Don't let up. They'll say Tom Stevens is on vacation and nothing can happen till he returns. Not trus. If all of us call often enough, they will start to push the commissioners office. Everyone will tradition from the batala are manafadimized to the time of the control to the con

| | | | Hamilt | on County Hi | ghway Departm | ent | | | | | |
|-------------|------|--------------------------|-------------|----------------|----------------|---------|----------------------|------|------|--------|---|
| 9/20/96 | | - | ROW | K ACTIVITY (| | | | | Page | | · 제 제 개 위 강 차 상 쓴 : |
| DATE | TWP | SEGID | ROAD NAME | Labor Cost | Equip.Cost M | at.Cost | Activity Quantity | | Emp. | Equip. | Materia |
| | | | | | | | | | | | |
| | | AGE: INSPECT | | | | | | | | | |
| ***** | *** | **** | ***** | | | | | | | | |
| 4/05/93 | 11 | H-1896-001 | Tottenham | 58.29 | 30.00 | 0.00 | | EACH | 0023 | 010 | |
| | | H-1896-001 | | 58.29 | | 0.00 | | EACH | 0035 | 010 | |
| | | | | | | | | | | | |
| 3/15/94 | 11 | H-1896-001 | Tottenham | 15.81 | 0.00 | 0.00 | 1.00 | EACH | 0011 | | |
| | | | TOTALS: | | 30.00 | | 1.00 | | | | |
| | | | TOTAL COST: | | UNIT COST: | | | | | | |
| | | | | | | | | | | | |
| | | IAGE: PIPES/T | | | | | | | | | |
| ***** | **** | ***** | **** | | | | | | | | |
| 5 (5 5 (0 B | | | Mark ask as | | | | | | | | |
| | | H-1896-001 H-1896-001 | | 0.00 114.26 | 0.00 812.50 | 0.00 | | roc | 0014 | 128 | 9999-WM |
| | | H-1896-001 | | 221.41 | 357.50 | 0.00 | | LOC | 0018 | | 9999-WM |
| • | | H-1896-001 | | 118.32 | 220.00 | 0.00 | | LOC | 0021 | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| | | H-1896-001 | | 252.88 | 37.50 | 0.00 | 1.00 | | 0034 | | |
| | | H-1896-001 | | 130.50 | 37.50 | 0.00 | | LOC | 0036 | | |
| 5/15/92 | 11 | H-1896-001 | Tottenham | 221.41 | 260.00 | 0.00 | | LOC | 0044 | | |
| 5/15/92 | 11 | H-1896-001 | Tottenham | 114.26 | 357.50 | 0.00 | | LOC | 0050 | | 9999-WM |
| | | H-1896-001 | | 221.41 | 357.50 | | | LOC | 0051 | | 0146-\$# |
| • | | | | | | | | - | | | |
| | | | TOTALS: | 1394.47 | 2440.00 | 73.34 | 1.00 | LOC | | | |
| | | | TOTAL COST: | 3907.81 | UNIT COST: | 3907.81 | | | | | |
| 149 - N | ISC. | DRAINAGE | | | | | | | | | |
| | | | **** | | | | | | | | |
| r /or /o- | | ** 1000 000 | Makkanban | 117 74 | er 00 | 0.00 | | 100 | 0015 | 102 | |
| | | H-1896-001 | | 117.74 | 65.00 | 0.00 | | roc | 0019 | | |
| - | | H-1896-001 | | 122.38 | 60.00 | 0,00 | 1.00 | | 0024 | 021 | |
| | | H-1896-001 | | 185.83 | 0.00 | 0.00 | | roc | 0038 | | |
| | | H-1896-001 | | 116.58 | 500.00 | 0.00 | | roc | 0044 | 110 | |
| 5/05/93 | 11 | H-1896-001 | Tottenham | 117.74 | 0.00 | 0.00 | | LOC | 0048 | | |

122.38

135.14

116.58

117.74

55.64

55.64

250.00

156.00

130.00

60.00

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0.00

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LOC

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0024 110

0038 234

0044 103

0048 021

0070

0072

5/06/93 11 H-1896-001 Tottenham

Hamilton County Highway Department WORK ACTIVITY COST SUMMARY 9/20/96 3:32 pm Page 2 Activity DATE TWP SEGID ROAD NAME Labor Cost Equip.Cost Mat.Cost Quantity Emp. Equip. Material ------149 - MISC. DRAINAGE ------TOTALS: 1263.39 1221.00 0.00 1.00 LOC TOTAL COST: 2484.39 UNIT COST: 2484.39 163 - SIGN INSTALLATION ********* 0.00 7.81 1.00 EACH 0039 10.00 14.90 1.00 EACH 0047 12 5/19/92 11 H-1896-001 Tottenham 14.28 0468-11'P 5/19/92 11 H-1896-001 Tottenham 14.28 1.00 EACH 0047 127 0468-R1-1B TOTALS: 28.57 10.00 22.71 2.00 EACH TOTAL COST: 61.28 UNIT COST: 30.64 189 - MISC. VEGETATION

| 6/11/92 | 11 | H-1896-001 | Tottenham | 118.32 | 0.00 | 0.00 | HOURS | 0024 | |
|---------|----|------------|-----------|--------|--------|------|-------------|------|-----|
| 6/11/92 | 11 | H-1896-001 | Tottenham | 130.50 | 45.00 | 0.00 | 8.00 HOURS | 0038 | 021 |
| 6/11/92 | 11 | H-1896-001 | Tottenham | 115.42 | 0.00 | 0.00 | HOURS | 0049 | |
| | | | | | | | | | |
| 5/12/93 | 11 | H-1896-001 | Tottenham | 61.19 | 30.00 | 0.00 | 15.00 HOURS | 0024 | 027 |
| 5/12/93 | 11 | H-1896-001 | Tottenham | 58.29 | 30.00 | 0.00 | HOURS | 0035 | 021 |
| 5/12/93 | 11 | H-1896-001 | Tottenham | 58.87 | 0.00 | 0.00 | HOURS | 0048 | |
| 5/12/93 | 11 | H-1896-001 | Tottenham | 20.87 | 0.00 | 0.00 | HOURS | 0073 | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | TOTALS: | 563.46 | 105.00 | 0.00 | 23.00 HOURS | 3 | |

533 - CONTRACT SURFACING: RESURFACE

| 12/08/92 | 11 | H-1896-001 | Tottenham | 0.00 | 0.00 | 19712.92 | .46 LM | 0067-999 |
|----------|----|------------|-----------|------|------|----------|--------|----------|
| | | | | | | | | |

TOTAL COST: 668.46 UNIT COST: 29.06

| TOTALS: | 0.00 | 0.00 19712.92 | .46 | LM |
|-------------|----------|-------------------|-----|----|
| TOTAL COST: | 19712.92 | UNIT COST: ****** | | |

|) 2 22 | 8 3 2 2 2 m; | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | Hamilt | | ghway Department | | ^게 과 의 목 및 크 크 로 크 | ====== | : 르꼭지ㅋ유림물로 Acc |
|---------------------------------|--------------|--|--------------------------------|----------------------------------|---------------------------------------|----------------------|------------------------------|--------|----------------|
| 9/20/96 | 3:32 | 2 pm | | K ACTIVITY | | | Page | 3 | |
| a a a a a a a a a a a a a a a a | ********** | ************* | 法投资收益的 计多数 医克拉氏病 计多数 计多数 计多数 计 | 1 2 2 2 3 3 3 4 4 4 2 3 3 | . 프로프로 프로 및 등 및 그 프로 크 구 및 및 및 Ju n n | (马) " | | *===== | ******** |
| DATE | TWP | SEGID | ROAD NAME | Labor Cost | Equip.Cost Mat.Cost | Activity Quantity | Emp. | Equip. | Material |
| ***** | | | REPORT TOTAL: | 26997.23 | | | | | |
| | | | THIS REPORT COVERS | THE PERIOD | FROM 5/15/92 TO 3/1 | 5/94. | | | |

.

| | | | Hamil | ton County Hi | ighway Depa | rtment | | | | |
|---------|-------|--------------|--------------------------|--------------------------|-------------|------------|----------|---------|----------|----------|
| 9/23/96 | 8:2 | 29 am | WC | RK ACTIVITY (| COST SUMMAR | Y | | Page | 1 | |
| | | | ************************ | ************ | *****===== | *======= | ******** | ======= | ======== | |
| | | | | | | | Activity | | | |
| ATE | TWP | SEGID | ROAD NAME | Labor Cost | Equip.Cos | t Mat.Cost | Quantity | Emp. | Equip. | Material |
| | | | | | | | | | | |
| 33 - 0 | ONTRA | ACT SURFACIN | IG: RESURFACE | | | | | | | |
| | | | ****** | | | | | | | |
| | | | | | | | | | | |
| - / / | | | | | | | | | | |
| 2/08/92 | 11 | H-1247-042 | Manchester Ct. | 0.00 | 0.00 | 5251 80 | .04 LM | | | 0067-999 |
| | | | | | 2.00 | 3231.00 | .04 114 | | | |
| | | | | | ***** | 3231.00 | . 04 Lat | | | |
| | | | | , | 3.00 | 3231.00 | . 0% 124 | | | |
| 2/08/92 | 11 | H-1293-001 | Mersey Ct. | • | 0.00 | | .08 LM | | | 0067-999 |
| 2/08/92 | 11 | H-1293-001 | Mersey Ct. | • | | | | | | |
| 2/08/92 | 11 | H-1293-001 | Mersey Ct. TOTALS: | 0.00 | | 5016.13 | | | | |
| 2/08/92 | 11 | H-1293-001 | TOTALS: | 0.00 | 0.00 | 5016.13 | .08 LM | | | |
| 2/08/92 | 11 | H-1293-001 | TOTALS: | 0.00 0.00 10267.93 | 0.00 | 5016.13 | .08 LM | | | |

, ,

HAMILTON COUNTY BOARD OF COMMISSIONERS OCTOBER 14, 1996

Holt made a motion that the Highway Department petition the Drainage Board for drain reconstruction for suburban Meridian and everything upstream that drains through it. Clark seconded. Clark stated she is having a hard time accepting that the people of Tottenham will have to pay for reconstruction. She believes their drains have been damaged by water that was not theirs. It has been going on for 30 years, and when they bought their homes they paid for the drain in their subdivision. That drain had deteriorated due to someone else's water. Holt stated that the owner of the woods can say the same thing, which it is not his water it is someone else's water creating the problem. Clark's position is that after 35 years of poor government interaction with these people that they have had no relief in all these years and now their drains are gone. It seems to her that they are having to pay twice for something that is not necessarily their fault. Mr. Stevens stated that he is reluctant to use Highway maintenance funds to replace that drain, when subdivisions built today are designed with the cost of storm sewers included in the cost of the the development. In this situation this subdivision was before that time and they have not paid those costs. Holt withdrew his motion. Clark withdrew her second. Clark asked if there is any way to divert the water that is coming over the road? Mr. Locke answered that there is a possibility of that, he would have to look at Liverpool and see how much grading we have. Mr. Stevens believes the situation is the same today as when it was constructed. Mr. Schleicher presented pictures from the 1960's showing flooding. Clark asked Mr. Ward if he was telling her that the only way to look at it is the entire drainage shed and these people will be assessed for reconstruction. Mr. Ward stated they would be assessed according to the code. Mr. Stevens stated recommendation #3 states just replacing the 12" pipe. Dillinger is not for that at all. Clark asked Mr. Ward if it is possible to do an on site detention to the north? Mr. Ward said it would reduce it, but we need to look into the future. When it is developed, where is the water going to go? Clark motioned that the Highway Department petition the Drainage Board for reconstruction. Holt seconded. Mr. Mike Granger addressed the commissioners. He has spoken to Steve Valinet and his engineer and this problem has existed for more than 25 years. He suggested at that time to create a brim on the north side of 111th Street that would actually pool the water into the woods and then evaporate. He asked if water is coming from the east side of the woods? Mr. Locke answered yes. If that is the case then Mr. Valient would probably want to put a brim up on the east side of the woods to stop the water and aggravating the situation even more. Mr. Ward stated that you can't wall the water out. Dillinger explained that this is the reason we are choosing to do this reconstruction, it is the only long-term solution. Mr. Granger stated that there are two problems, bad storm sewers and water coming across 111th. He stated that the only time it ever floods is when the water comes over 111th. Motion carried unanimously.

Retainage Escrow Agreement for 96th Street - Construction Contract #2:

(Tape 1-2457)

Mr. Locke presented an agreement for Hamilton County, Hunt Paving Co. and National City Bank of Indiana. Holt made a motion to accept agreement. Clark seconded. Motion carried unanimously.

Retainage Escrow Agreement for 96th Street - Construction Contract #3:

Mr. Locke presented an agreement for Hamilton County, E & B Paving, Inc. and National City Bank of Indiana. Holt made a motion to approve. Clark seconded. Motion carried unanimously.

Release of Bonds/Letters of Credit:

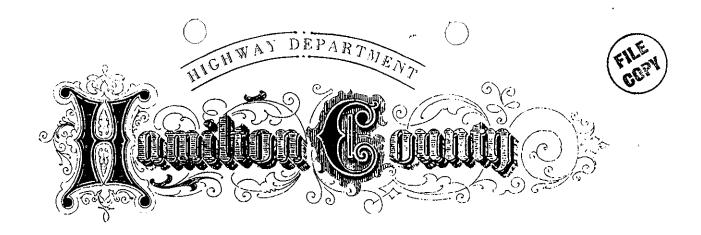
Mr. Locke presented the following bonds and letters of credit for release: 1) B-93-0088 - Fidelity & Deposit Bond #11860-1193-567 for an open road cut at the intersection of Adios Pass & Bennett Road, Clay Township. 2) B-93-0097 - Amwest Surety Bond #22002578 on Permit #11133-1193-664; B-93-0098 Amwest Surety Bond #22002577 on Permit #11116-1093-665, and B-95-0103 Amwest Surety Bond #1309553 on Permit #11899-1095-834 for Wiche Construction, Inc. On three major commercial driveways located 545' west of College on 111th Street, 530' north on 111th Street on College and 430' north of Spring Highland on Springmill, Clay Township. Holt made a motion to approve. Clark seconded. Motion carried unanimously.

Acceptance of Bonds/Letters of Credit:

Mr. Locke presented the following Bonds and letters of credit for acceptance: 1) B-90-0031 - Fidelity and Deposit Company Bond #3020 67 20 for Indianapolis Power & Light Co. in the amount of \$24,000 to expire 8/21/97. 2) B-90-0038 - Continental Casualty Company Bond #007521582 for Harold Lawson dba Harolds Septic & Excavating in the amount of \$25,000 to expire 10/5/97. 3)B-92-0081 - Continental Casualty Company Bond #60074977 for Quakenbush Construction Co., Inc. in the amount of \$25,000 to expire 9/24/97. 4) B-06-0093 - United States Fidelity and Guaranty Company Bond #3152147 96 9 for James Lockhart, Jr. in the amount of \$15,000 for public road approach/private road approach to expire 9/23/97. 5) B-960094 - United States Fidelity and Guaranty Company Bond \$31-0120-49831-96-5 for The Hunt Paving Company, Inc. In the amount of \$4,737,064.14 for East 96th Street Transportation Project Contract No. 2 to expire one year after the date when final payment becomes due. 6) B-96-0095 - United States Fidelity and Guaranty Company Bond # 31-0120-49831-96-5 for The Hunt Paving Company, Inc in the amount of \$4,737,064.14 on Payment Bond to expire one year after the final payment becomes due. 7) B-96-0096 - Safeco Insurance Company of America Performance bond #5868608 in the name of Centex Homes for \$169,192.10 on Bridge #266 over Vestal Ditch in Haverstick Subdivision to expire 9/27/98. 8) B-96-0098 - Continental Casualty Co. Bond #124066558 for Adams Water & Sewer Service, Inc. in the amount of \$5,000 to expire 9/30/97. 9) B-960099 - Fidelity and Deposit company Permit bond #8012022 for the Town of Westfield in the amount of \$25,000 to expire 9/26/97. 10) B-96-0100 - Fidelity and Deposit company Permit Bond for Wilfong Construction Corporation in the amount of \$10,000 to do a road cut - 200' west of Quail Point Road on 141st Street (Permit No. P960756) to expire 10/1/97. 11) B-96-0101 - Fidelity and Deposit Company Permit Bond for Wilfong Construction Corporation in the amount of \$10,000 to do a road cut - 540' N. Of 141st Street on Ditch Road (Permit # P960755) to expire 10-1-97. 12) B-960103 -Fidelity and Deposit Company Permit Bond for Wilfong Construction Corporation in the amount of \$5,000 to do a road boar at 410' west of Thomas on 146th Street Permit # P960757 to expire 10/1/97. 13) L-960013 - First Fidelity & Guaranty Co., Inc. Irrevocable Credit # SBG-7-ST for Davis Homes, LLC in the amount of \$78,591.55 and expires 8/12/97, but such expiration dates will be automatically extended for a period of one year on 8/13/97 and on each successive expiration date, unless a release is received. 14) L-960012 - NBD Band, N.A. #00037684 for Land Innovators Co. in the amount of \$5,000 to expire 9-9-97 for the installation of an irrigation system in the right-of-way. Clark made a motion to approve. Holt seconded. Motion carried unanimously.

Five Year Bridge Management Program:

Mr. Locke presented the Five Year Bridge Management Program. Mr. Locke would like the commissioners approval of this program. It was the one submitted May 1, 1996 from the Highway County Highway Task Force Bridge Committee. Holt motioned for approval. Clark seconded. Clark thanked Mark Fisher for the map that he prepared for her. Clark has a real concern on the bridge over River Road, bridge #141, between 126th and 136th. She would like to see its repairs moved forward. It is extremely dangerous. Mr. Locke suggested taking another look at it when the plan is updated in May or ask the Highway Department, by a motion, to look at how this bridge fits in the priority of repairs. Clark asked if any of the bridges on the program are unable to be traveled over?
Mr. Locke stated no, but the majority of the bridges on the program cannot have school buses travel on them. Bridge #141 can have



MEMO

To:

Hamilton County Board of Commissioners

From:

Les Locke

Subject: Repair of Storm Drains

Tottenham Drive

Meridian Suburban Subdivision

Date:

September 23, 1996

I have prepared the following summary of the facts surrounding the position of the Highway Department concerning the above referenced drain. Due to Tom being on vacation I can not verify his previous conversations with the residents, but I do believe he would concur with this letter.

We are not aware of any original construction plans for this drain system, however we believe that the section along Tottenham is within the R/W and thus the responsibility of the county to maintain within its budgetary means and on a level equal to other streets within the county. To the best of my knowledge the streets do drain, however in heavy rains it may take awhile for the water to all drain away. On Saturday, September 21, 1996, I visited the site at approximately 4:00 P.M. white it was raining and after there had been a light rain all day long. I found no standing water at any of the inlets. This drain continues south of the Meridian Suburban Subdivision onto private property with no legal access for maintenance. I am not sure where the drain outlets or terminates.

The repair of this drain is primarily a level of service issue. I believe our position has been to not maintain this drain because while it is slow to drain, it does still work. I believe this drain is constructed with butt end concrete tiles. With this type of construction and its age, it is very likely that the main trunk line of the drain would have to be entirely replaced. A quick estimate without a detailed investigation is shown on attached Exhibit "A". I believe the maximum cost to repair the part of the system within the right of way to be \$74,000. A more accurate estimate could be made after the storm sewer was videoed. During my tenure with the county, I do not know of any instances where the Highway Department has completely reconstructed a drain system. Unfortunately at out present funding level we are not financially able to maintain all roads Hamilton County Board of Commissioners Page 2 September 23, 1996

and drains in the perfect condition the residents would like. In many cases residents would not maintain a piece of infrastructure if it was theirs and at their cost, but because it is the county's responsibility, they feel like it is free. To show the level of service we have provided this subdivision, we have expended \$37,265 in 1992 thru 1996 to date for major repairs, maintenance and resurface. This does not include minor items such as simple cleaning of inlets, snow removal, salt, sand and etc. which are not charged to a specific street. Based on our 1995 distribution of Motor Vehicle Highway and Local Road and Street funds, a mile of road receives about \$3400 in funding from the state per year. With this subdivision having .31 miles of road, the expenditures we have made since 1992 equal approximately (37,265 ÷ (3400x.31)) 35 years of state funding. As you can see, we are very reluctant to spend additional large sums of money for this location at the expense of other roads within the county. This is why we have recommended the residents pursue a regulated drain if they are not happy with the level of service we can provide.

In summary, if the Highway Department is to pursue this issue, I would make the following recommendations. If the Commissioners feel this should become a regulated drain, then I would recommend they petition this to be regulated thru the Highway Department, thus making the Highway Department responsible for the investigation costs if the drain is not approved. If the Commissioners do not want this to be regulated, then I recommend they direct the Highway Department to video the storm sewer within the right of way and then bring back a recommendation for spot repairs or full replacement. The only problem I see with this second option is that it may not provide for long term maintenance and does not provide a means to maintain the down stream sections of pipe which are located out of the right of way.

Please let me know what action you would like for us to take, if any. Please be advised we have two accounts to pay for this work. One is Drain Repairs which has \$20,000 left out of the \$50,000 annual 1996 budget, and the other is Culverts, Tile & Pipe which has \$9,000 left out of the \$50,000 annual 1996 budget. Obviously any major expense would require us to go to the Council for additional funding.

cc: Tom Stevens
Dave Landis
Becki Wise
Fred Swift

EXHIBIT "A"

Estimated cost of reconstruction of the main line of the storm sewer along Tottenham.

| Contract Preparation: Video Investigation: | \$ 2,000 |
|--|-----------|
| Video 1215' @ \$2.00 per ft.= | 2,430 |
| Backhoe = | 1,000 |
| Reinforced Concrete Pipe | |
| 24" dia 600' @ \$35 = | 21,000 |
| <u> </u> | 21,000 |
| 30" dia 615' @ \$45 = | 27,675 |
| Inlets 2 @ \$2,000 = | 4,000 |
| Drive Repair $11 \times 20 \times 6 \times 6 \times 110 \div 9 \div 2000 \times 100 =$ | 4,840 |
| Tree Removal = | 500 |
| Seed & Mulch = $1215 \times 15 \times .10 =$ | 1,823 |
| Traffic Control: | 1,500 |
| Constuction Inspection | 7,000 |
| Total Cost | \$ 73,768 |

12-55

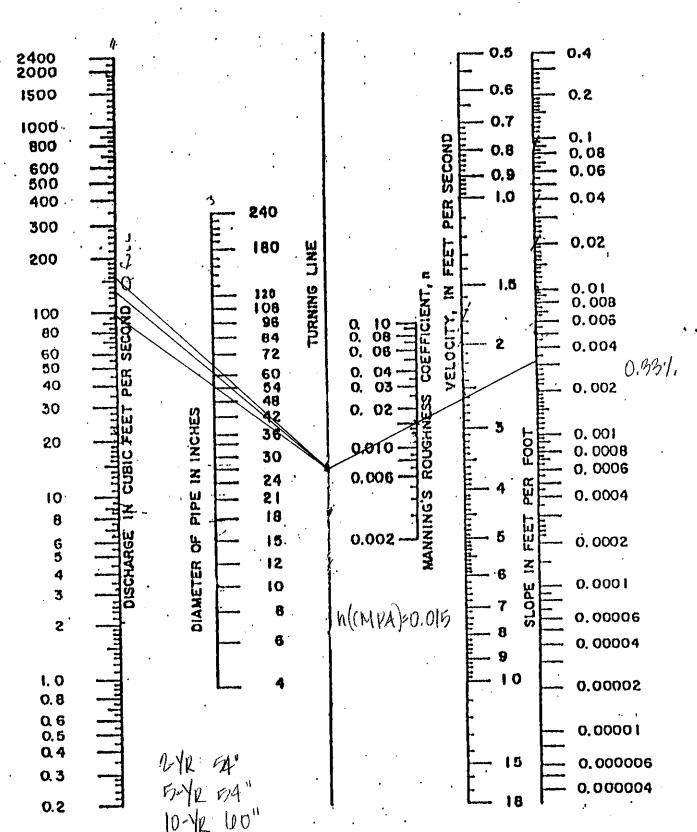
CMPA UNDER 111th Gr (Wof US31)

NOMOGRAPH FOR SOLUTION OF MANNING'S

DRAINAGE AREA

FORMULA FOR FLOW IN, STORM SEWERS

Q2 98.765 Q6 134.0cfs Q10 141.0cfs



PROJECT: UGBI & IIITH HAMILTON COUNTY BY: JLK SURVEYOR'S OFFICE PATE: 1 13 96

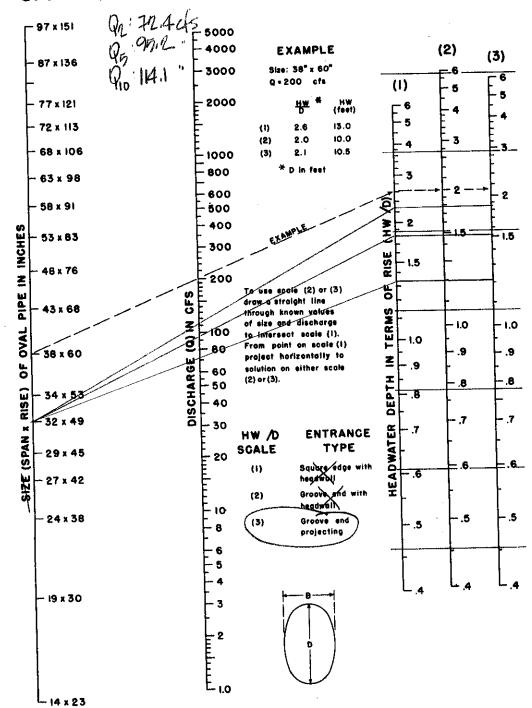
HIDRAULIC DESIGN OF HIGHWAY CULVERTS

9CS RATIONAL TR-F15

| PROJECT: 1531 4 111th 9 | <u> </u> | | | _ | STAT | TION : | 0+0 | 00 | | | | CUL | VERT | DESI | GN F | DRM. | \neg |
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| DESIGN FLOWS/TAI | | | | | ELį | <u> 868. </u> | 15 (1 | ٠,١ | FALL | | | | | - | | | |
| R.I. (YEARS) FLOW(cfs) | TW | (ft) | - | | | | | | | | S | s≈s _o _ | FALL/L | a | L | EL 63846m | - 1 |
| 一 | | | _ | | | | | | | | S | ; <u>= _U</u> Ø | 12.00 | • | | | |
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| CULVERT DESCRIPTION: | TOTAL FLOW | FLOW PER | | | | | ADWA | TER CAL | CULAT | IONS | | | | N N | > | | ᆿ |
| MATERIAL - SHAPE - SIZE - ENTRANCE | | BARREL Q / N | | NLET | CONTR | | | Т | T | TLET C | ONTROL | · · · · · · | | TROI VAT | LET | COMMENTS | |
| | (cfs) | (1) | HW _i /D | HW | FALL (3) | EL hi | T W (5) | d _c | d _C +D | h ₀ | k _e | H (7) | EL ho | CONTROL HEADWATER ELEVATION | OUTLE | | |
| CMPA 32" X 43" (2-YK) | 72.4 | | 1.2 | 4.9 | - | 843,10 | | 3.2 | 3.6 | 3.6 | 0.5 | 1,1 | 843.16 | 813.6 | 15.2 | AUTHE | |
| (5VR) | 95.12 | - | 1.8 | 7.35 | _ | 346.00 | | 3.6 | 3.8 | 3.8 | 0.5 | 1.1 | 843.AK | | Ī | TIFFES | |
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| (2) HW; /D = HW /D OR HW; /D FROM DESIGN | CHARTS | | | BASED ON | | | | (8) ELho | - | | | - | - | | | | |
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| SUBSCRIPT DEFINITIONS : | COM | MEN | TS / DIS | SCUSSI | ON: | | | | | | | T | 011111 | | 505: - | = | |
| g.APPROXIMATE f. Culvert face | | | | | <u>-</u> | | | | | | | | SIZE | 7 | RREL S メ48* | ELECTED : | |
| hd. DESIGN HEADWATER hi. HEADWATER IN INLET CONTROL | Ì | | | | | | | | | | | - | | | <u>, 7 0</u> | | -1 |
| ho. HEADWATER IN OUTLET CONTROL i. INLET CONTROL SECTION o. OUTLET | | | | | | | | | | | | | SHAPE | - | MVA | n.0.011 | |
| sf. STREAMBED AT CULVERT FACE IW. TAILWATER | L | | | | | | | | | | | | MATER | · · · · · · · · · · · · · · · · · · · | <u> </u> | | |
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CHART 30

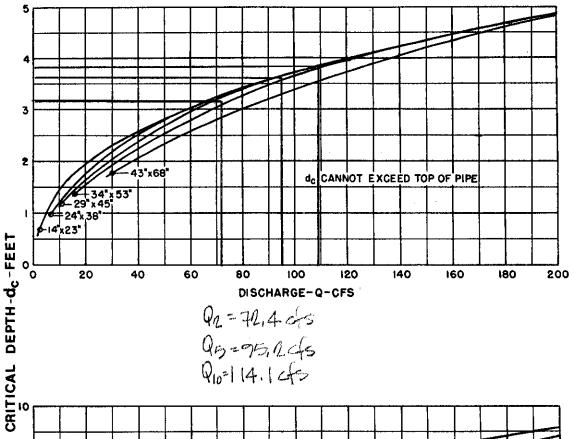


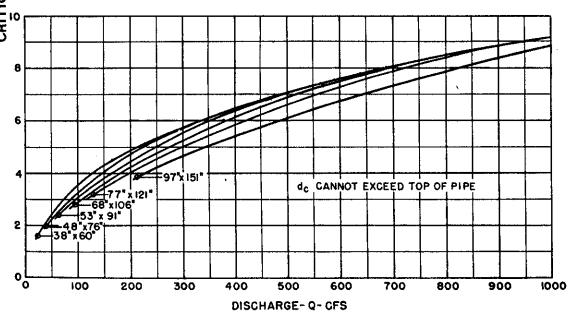
HEADWATER DEPTH FOR OVAL CONCRETE PIPE CULVERTS LONG AXIS VERTICAL WITH INLET CONTROL

BUREAU OF PUBLIC ROADS JAN. 1963

The Mark Property of the

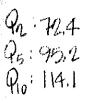
CHART 32

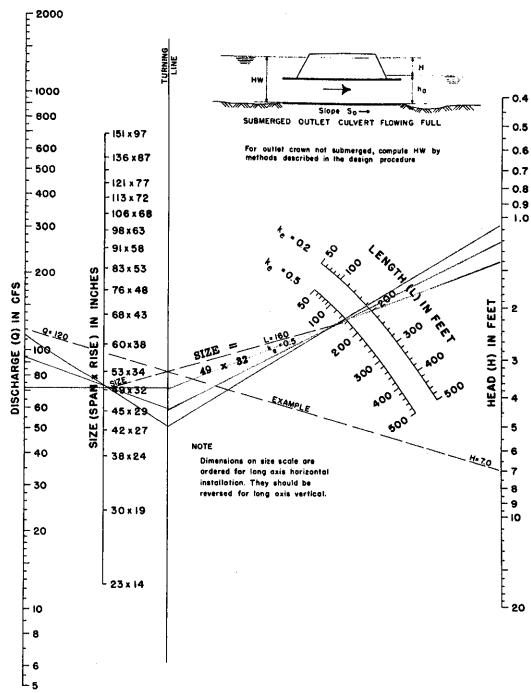




BUREAU OF PUBLIC ROADS JAN. 1964 CRITICAL DEPTH OVAL CONCRETE PIPE LONG AXIS VERTICAL

CHART 33





HEAD FOR
OVAL CONCRETE PIPE CULVERTS
LONG AXIS HORIZONTAL OR VERTICAL
FLOWING FULL
n=0.012

BUREAU OF PUBLIC ROADS JAN, 1963

PROPOSAL

D.R. Childs Corporation P.O. Box 251 Zionsville, IN 46077 (317) 873-2549 (Fax) 873-0670

October 10, 1996

Michael Rich, Project Engineer Hamilton County Highway Department 1717 East Pleasant Street Noblesville, Indiana 46060

RE: Storm Sewer Work @ 111th Street & Tottenham Drive

We propose to furnish all material and labor to complete the storm sewer work at the above referenced site for the following unit prices. Said prices include all costs associated with the performance of the work, including but not limited to mobilization, maintenance of traffic, yard and street restoration (with the exception the surface course on Tottenham Drive) and connection to new or existing structures.

| 1. | 12" RCP | 435 LF | 34.00 \$/LF \$ | 14,790.00 |
|----|----------------|--------|----------------|-----------|
| 2. | 15" RCP | 60 LF | 62.00 \$/LF | 3,720.00 |
| 3. | 18" RCP | 412 LF | 40.00 \$/LF | 16,480.00 |
| 4. | 21" RCP | 605 LF | 44.00 \$/LF | 26,620.00 |
| 5. | Inlet "E-7" | 1 EA | 1,116.00 \$/EA | 1,116.00 |
| 6. | Reconst. Inlet | 2 EA | 766.00 \$/EA | 1,532.00 |
| | | | | |
| | | | TOTAL \$ | 64,258,00 |

D.R. Childs Corporation,

Chris Childs, Project Engineer

PROPOSAL

D.R. Childs Corporation
P.O. Box 251
Zionsville, IN 46077
(317) 873-2549
(Fax) 873-0670

October 10, 1996

Michael Rich, Project Engineer Hamilton County Highway Department 1717 East Pleasant Street Noblesville, Indiana 46060

RE: Storm Sewer Work @ 111th Street & Tottenham Drive

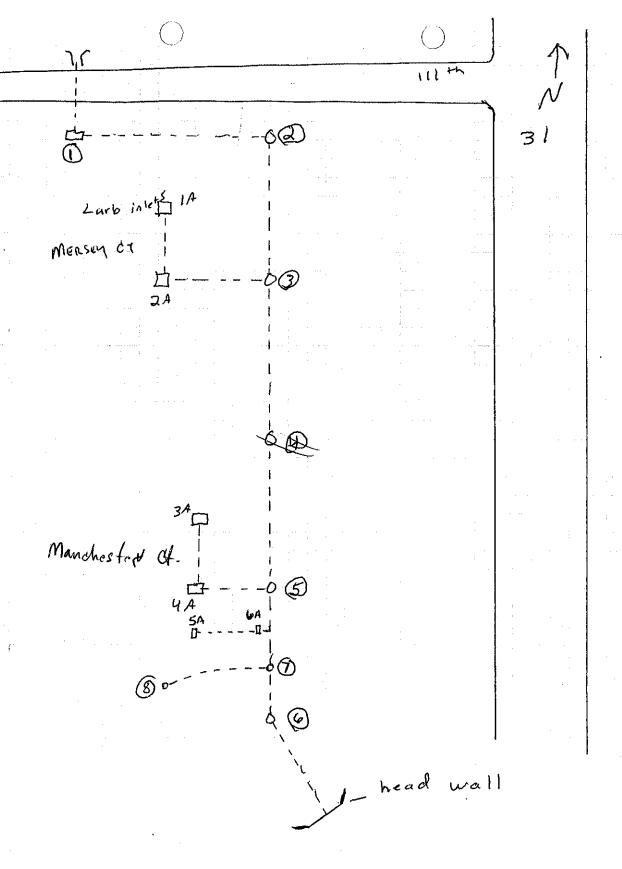
We propose to furnish all material and labor to complete the storm sewer work at the above referenced site for the following unit prices. Said prices include all costs associated with the performance of the work, including but not limited to mobilization, maintenance of traffic, yard and street restoration (with the exception the surface course on Tottenham Drive) and connection to new or existing structures.

| 1 | 12" SDR-26 | 435 I.F | 32.30 \$/LF | \$ 14,050 50 |
|----|----------------|-------------|----------------|-----------------|
| 2. | 15" SDR-35 | 60 LF | 59.25 \$/LF | 3,555.00 |
| 3. | 18" SDR-35 | 412 LF | 38.50 \$/LF | 15,862.00 |
| 4, | CINCIPAL CA | 605 1 37 | 44.50 503.07 | 26,022,50 |
| 5. | Inlet "E-7" | 1 EA | 1,116.00 \$/EA | 1,116.00 |
| G. | Reconst. Inlet | 2 EA | 766.00 \$/EA | 1,532,00 |
| | | | | |

TOTAL \$ 63,038.00

D.R. Childs Corporation,

Chris Childs, Project Engineer



| INDEPENDENT CONCRETE PIPE CORPORATE | ION PROJECT <u>Meridian Suburba</u> — (Starm) |
|---|---|
| SALES OFFICES TELEPH INDIANAPOLIS, IN .317/262- MISHAWAKA, IN .219/259- | ONE ITEM |
| ST. LOUIS, MO | 2920 CHECKED BY |

PROJECT: Suburban Meridian LOCATION: 111th St & Meridian

BY: JLK

CHKD:

DATE: 1/17/1997

DATE:

PAGE: 1

PIPE ALONG 111TH STREET (111TH & TOTTENHAM TO 15" CMP UNDER 111TH)

TR-55 DRAINAGE CALCULATIONS

RUNOFF CURVE NUMBER

| SOIL NAME | HYDR. | COVER | CN | AREA | Product |
|---------------|----------|--------------------------|----|---------|-----------|
| | GROUP | DESCRIPTION | | (acres) | CN x Area |
| | | | | | 0 |
| Crosby, CrA | С | Residential, 1/3 Ac Lots | 81 | 0.1 | 8.1 |
| Brookston, Br | В | Residential, 1/3 Ac Lots | 72 | 0.3 | 21.6 |
| | | | | | 0 |
| | | | | | 0 |
| | <u> </u> | | | | 0 |
| | | | 1 | | 0 |
| | | | | | 0 |
| | | | | | 0 |
| | | | | | 0 |
| | | | | 0.4 | 29.7 |

WEIGHTED CN:

74.25

| | STM #1 | STM #2 | STM #3 |
|-------------------------|------------|------------|------------|
| Frequencyyr | 2 | 5 | 10 |
| Rainfall, P (24-hour)in | 3 | 3.75 | 4.3 |
| Runoff (Q)in | 0.92121408 | 1.43178669 | 1.83847135 |

PROJECT: Suburban Meridian LOCATION: 111th St & Meridian

BY: JLK

CHKD:

DATE: 1/17/1997

DATE:

PAGE: 1

PIPE FROM STR3 TO 111TH ST & TOTTENHAM DR

TR-55 DRAINAGE CALCULATIONS

RUNOFF CURVE NUMBER

| SOIL NAME | HYDR. GROUP | COVER DESCRIPTION | CN | AREA (acres) | Product CN x Area |
|---------------|----------------|--------------------------|----|--------------|----------------------|
| | | | | | 0 |
| Crosby, CrA | С | Residential, 1/3 Ac Lots | 81 | 2.15 | 174.15 |
| Brookston, Br | В | Residential, 1/3 Ac Lots | 72 | 1.7 | 122.4 |
| | | | | | 0 |
| | | | İ | | 0 |
| | | | | | 0 |
| | | | | | 0 |
| | | | | | 0 |
| | | | | | 0 |
| | | | | | 0 |
| | | | | 3.85 | 296.55 |

WEIGHTED CN: 77.025974

| | STM #1 | STM #2 | STM #3 |
|-------------------------|------------|------------|------------|
| Frequencyyr | 2 | 5 | 10 |
| Rainfall, P (24-hour)in | 3 | 3.75 | 4.3 |
| Runoff (Q)in | 1.07251562 | 1.62063567 | 2.05137527 |

PROJECT: Suburban Meridian LOCATION: 111th St & Meridian

BY: JLK

CHKD:

DATE: 01/17/97

DATE: PAGE: 1

PIPE FROM STR 5 TO STR 3

TR-55 DRAINAGE CALCULATIONS

RUNOFF CURVE NUMBER

| SOIL NAME | HYDR. GROUP | COVER DESCRIPTION | CN | AREA (acres) | Product CN x Area |
|---------------|----------------|--------------------------|----|-----------------|----------------------|
| | | | | (| 0 |
| Crosby, CrA | С | Residential, 1/3 Ac Lots | 81 | 1.5 | 121.5 |
| Brookston, Br | В | Residential, 1/3 Ac Lots | 72 | 2.5 | 180 |
| | | | | | 0 |
| | | | | | 0 |
| | | | | | 0 |
| | | | | | 0 |
| | | | | | 0 |
| | | | | | 0 |
| | | | ŀ | | 0 |
| | | | | 4 | 301.5 |

WEIGHTED CN:

75.375

| | STM #1 | STM #2 | STM #3 |
|-------------------------|------------|------------|------------|
| Frequencyyr | 2 | 5 | 10 |
| Rainfall, P (24-hour)in | 3 | 3.75 | 4.3 |
| Runoff (Q)in | 0.98092747 | 1.50684135 | 1.92341132 |

PROJECT: INGERMAN

LOCATION: 206TH ST. (SR19 TO EDITH AVE

BY: JLK

CHKD:

DATE: 1/2/97

DATE:

PAGE: 1

TR-55 DRAINAGE CALCULATIONS

RUNOFF CURVE NUMBER

| SOIL NAME | HYDR. GROUP | COVER DESCRIPTION | CN | AREA | Product |
|---------------|----------------|--------------------------|----|---------|-----------|
| | GROOF | DESCRIPTION | - | (acres) | CN x Area |
| | | | | | 0 |
| Crosby, CrA | С | Residential, 1/3 Ac Lots | 81 | 0.605 | 49.005 |
| Brookston, Br | В | Residential, 1/3 Ac Lots | 72 | 0.605 | 43.56 |
| | | | | | . 0 |
| | | |] | | 0 |
| | | | | | 0 |
| | | | | | 0 |
| | | | | | 0 |
| | | | | | 0 |
| | | | | | 0 |
| | | | | 1.21 | 92.565 |

WEIGHTED CN:

76.5

| | STM #1 | STM #2 | STM #3 |
|-------------------------|------------|------------|------------|
| Frequencyyr | 2 | 5 | 10 |
| Rainfall, P (24-hour)in | 3 | 3.75 | 4.3 |
| Runoff (Q)in | 1.04281633 | 1.58390538 | 2.01017665 |

| 5740 - | 93.78 93.90 94.20 94.30 | | | | | |
|--|----------------------------------|----------|------------------|-------------------------|----------------------------|------------------------------|
| 56+0 | 94.60 | Beg ails | 2- | 14.39 au 21 | | |
| , 60 | House I | | TOTTENHAM £ 94.6 | DR. x9401 | 93.00 | dogous Fac (N SINE OF NI) |
| | | | 4 | | 20' 94.98 37'56 - 55D 5044 | |
| \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | TREASE SCANEY | | U.S.3 (5 Board) | 12 22 23.2 25 25 Q8.27. | 15 93.52 INVECT | |
| | | | | | 3 | |

| sti ^{Aso} roo sml | | us 31 | |
|--|---|--|--|
| (1) (1) (1) (1) | PKI ***** X **** *** *** *** *** | 7.45 3.85 PK1=98-10 PK1=92.52 PK2=99.46 | |
| · / | SHOTS FROM (2) 500 PTCH 48+0 92.6 46+0 92.3 45+0 91.8 44+0 91.4 43+0 91.2 | SHOTS From 3 3740 au.7 3640 93.4 3540 92.3 3440 91.3 | |
| مانځي کې د د د د د د د د د د د د د د د د د د | 43 to 41.2 42 to 91.3 40 to 89.0 38 to 80.2 | 33+0 90.6 32+0 89.3 30+40 89.05 -> US31 Cross PIDE OFT'HAM >88.5 -> @ H'WAL DRAIN) -> 88.5 | |
| | 98-2 | 30 +50 87-3 -> T'HAM DRAIN MEETS 31 SIDE DITCH JHAM DRAIN 31 DITCH 31 X-PIPE | |
| • | | X 3:1 SLOPE ON US 31 AT THIS JUNETION | |

D.R. CHILOS - CHRIS CHILOS 873-2549 625-3818

| QUOTE FOR T | HAM -> | USE JOEL | 's Guy From | Vice. | FARMS 6 | Angrapagi) |
|---|----------|----------|-------------|-------|---------|------------|
| · - · ·· · · · · · · · · · · · · · · · · · | C> Mings | MEET ON | SITE | | | ••• |

Cur-DE-SAC CROSSINGS 12", ~160' (MEAS.)

REPLACE EXIST. STRUCTURES ?

10-8-96, 2:00pm, Meet w/ CHEIS CHILOS OF D.R. CHILOS About quote for pipe replocement @ T'utum ? Redulto

1014L ACKEAGE:

9.8 AC 13.8 AC 15.2 AC 14.0 AC 12.0 AC

71.1 AC

PIPE SIZING FOR RCP UNDER 211th ST

| METHOD | SIEE |
|-------------|-------------------|
| GCG ACREAGE | 16" 80.5% |
| RATIONAL | 20/42"/48°C 5.5%. |
| 12-55 | 42 48 54 00.6% |

13-782 500 24EETS ELEGY SOULHER 12-281 725 24EETS ELEGY SOULHER 12-282 700 24EETS ELEGY SOULHER 12-282 700 24EETS ELEGY SOULHER 12-382 700 RECYCLED WHITE SOULHER 14-285 700 RECYCLED WHITE SOULHER 14-285 700 RECYCLED

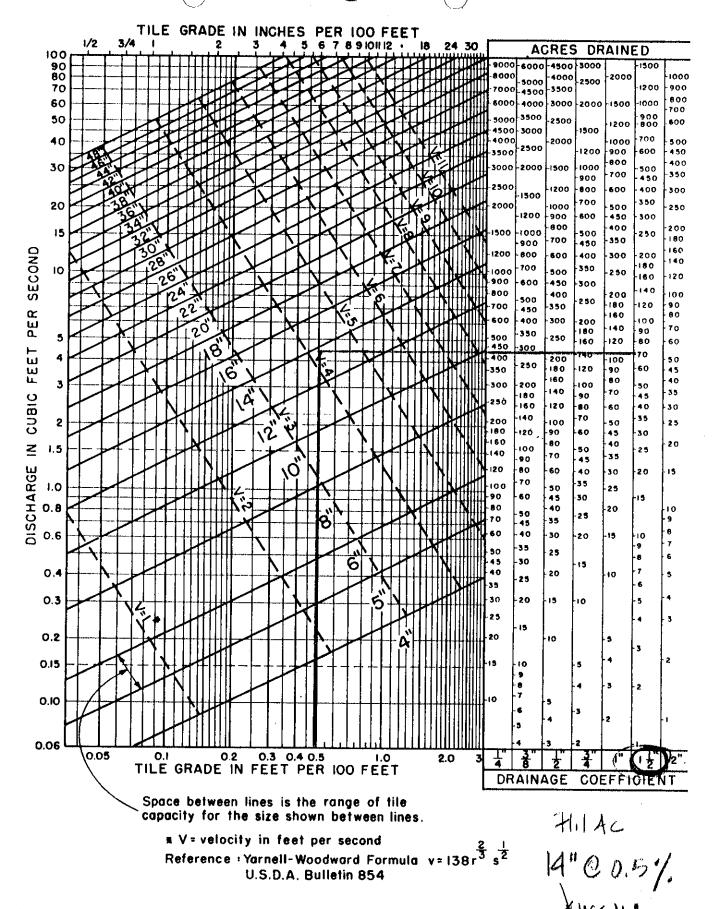


Figure 3. Tile drain design chart.

10TAL ACREAGE: 71.1AL = 3097,116 ft 2

| DESCRIPTION | Ac | 1/, | C | WEGHTED C |
|-------------------------------------|------|-------|-----|-----------|
| CULTIVATED HELD | 10.1 | 23% | 0.3 | 0.069 |
| DEVELOPED AREAS (PAVED/BLDGG) | 47.5 | 66.5% | 0.9 | 0.299 |
| GREED GRASSED AREA (US 31 DITCH) | 7.5 | 10.57 | 0.6 | 0.063 |
| COSON MICH | | | | 0.631 |

Te 0.0078 (D) 0.77

MAXIMUM VIST: 3500'

AVG SLOVE: 0.0054/4 (0.5%)

Tc = 0.0078 (3000') 0.77 = 32 MIN

Iz: 1.9 "/hr (1/2") 1/4 = 4.40 (10) 5 fps

Is: 2.5 1/hr = 17.79 (10)-5 fps

In: 3.0 "/hr = 6.94 (10)-4 fps

Q=CIA

Q2 = (0.5731) 4.4×10-5 fps)(3097116 ft2) = 72.36 cfs

Q5 = (0.531/5.79 ×10-5 fps)(3097116+2) = 95.22 cfs

Q10= (0.531)(6.94×10-5 fps)(3097116 ft2) - 114.13 cfs

vers and 15

Values of Runoff Coefficients (C) for Use in the Rational Formula

| Type of Surface | Runoff Coefficient |
|---------------------------------------|---------------------------------|
| Rural Arena | |
| Concrete or sheet asphalt pavement | . 0,8 - 0.9. |
| Asphalt macadam payament | 0.6 - 0.8 |
| Gravel roadways or shoulders | |
| Bare carth | |
| Steep grassed areas (2:1) | 0.5 - 0.7 |
| Turf meadows | 0.1 - 0.4 |
| Forested areas | 0.1 + 0.3 |
| Cultivated fields | 0.2 - 0.4 |
| Urban Areas | |
| All water-tight roof surfaces | . 0.75 - 0.95 |
| Bituminous or concrete pavement | ** |
| Traffic bound pavement | . 0.70 - 0.90 |
| Gravel pavement | . 0.35 - 0.70 |
| Impervious soils (heavy) | • |
| Impervious soils (w/turf) | |
| Slightly pervious soil.,, | |
| Slightly pervious soil (w/turf) | |
| Moderately pervious soil | · · |
| Moderately pervious spil (w/turf) | |
| Example of a Weighted "C" Factor | |
| 5% Water tight roof surfaces | $ 5\% \times 0.85 \ = 0.04$ |
| 10% Bituminous or conc. pavement | $10\% \times 0.9 = 0.09$ |
| 10% Traffic Bound payement | $ 10\% \times 0.8 = 0.08$ |
| 50% Slightly impervious soil | $ 50\% \times 0.4 = 0.2$ |
| 15% Slightly impervious soil (w/turf) | $ 15\% \times 0.2 = 0.03$ |
| 10% Moderately pervious soil | $ 10\% \times 0.1 = 0.01$ |
| Weighted "C" Factor = | 0.45 |

Fig. 7-415.04 B

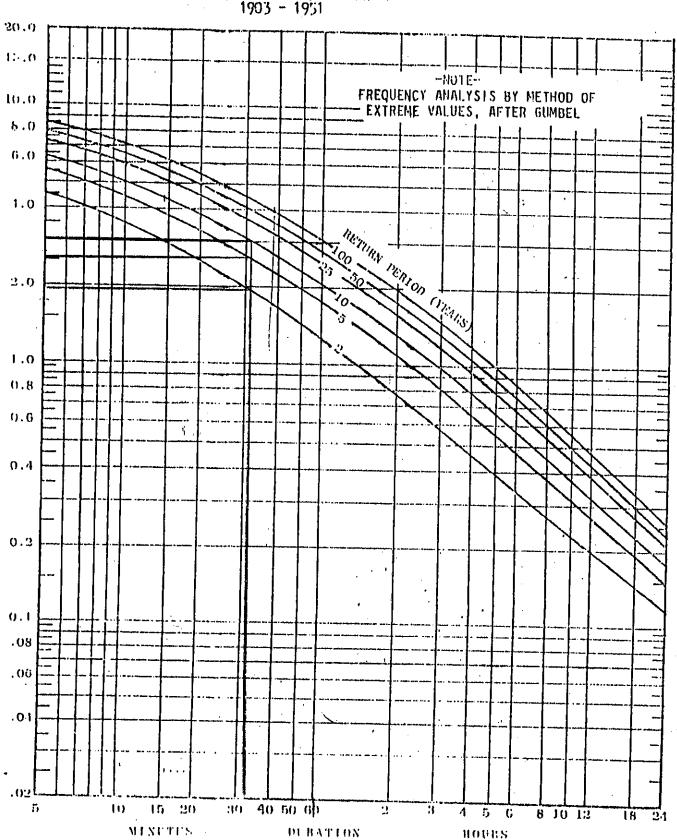
Parional C Vacues

U.S. DEPARTMENT OF COMMERCE

WEATHER BUREAU

COOPERATIVE STUDIES SECTION

RAINFALL INTENSITY - DURATION - FREQUENCY CURVES INDIANAPOLIS, INDIANA 1903 - 1951

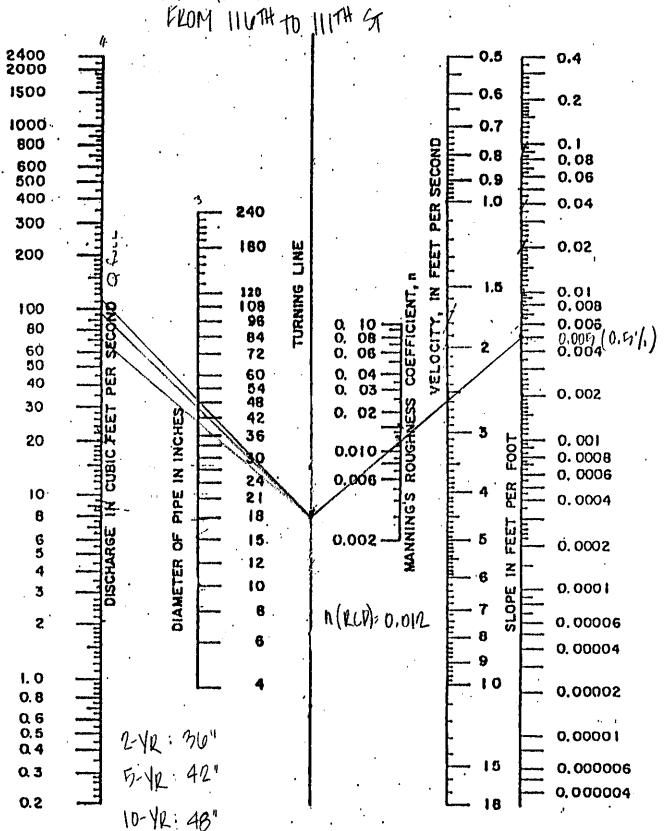


FILLINATE

KCY UNGR 111111 GT (W of US W)

NOMOGRAPH FOR SOLUTION OF MANNING'S

FORMULA FOR FLOW IN STORM SEWERS ULAINAGE AREA: 71.1 AC ALONG USDI Qn: 712.76cfs Qs: 95.22cfs Q10: 114.13cfs



Workshee : Graphical Peak Discharge me d

| • | | | łou | |
|---|-----------------------|--------------------|-------------|-----------------------|
| Project KCP UNDER 111TH GT | Ву | JUK | Date 12/30 | 96 |
| Location <u>US 31 (116THGT — 111TH GT)</u> | Che | ecked | Date | |
| Circle one: Present Developed | | | | |
| 1. Data: | | | | |
| Drainage area $A_m = O_1 $ | mi ² (acre | s/640) | | |
| Runoff curve number $CN = 91.2$ | | ksheet 2) | | |
| Time of concentration $T_c = 0.789$ | - | worksheet 3 | 1) | |
| Rainfall distribution type = | (I, IA, I | I, III) | | |
| Pond and swamp areas spread throughout watershed = 0 | percent o | f A _m (| acres or mi | ² covered) |
| | | Storm #1 | I 64 | |
| 2 P | | | Storm #2 | Storm #3 |
| 2. Frequency | • yr | 1 | 5 | 10 |
| 3. Rainfall, P (24-hour) | in | 3.0 | 3,75 | 4.3 |
| 4. Initial abstraction, I | in | 0.195 | 0.195 | 0.195 |
| 5. Compute I _a /P | , | 0.0657 | 0.07/2 | 0.045 |
| | | | | |
| Unit peak discharge, q_u (Use T_c and I_a/P with exhibit 4-1) | csm/in | 425 | 430 | 435 |
| | | 0.00 | 00 | |
| Runoff, Q(From worksheet 2). | in | 2.09 | 2.805 | 3.33/2 |
| | į | <u> </u> | | |
| Pond and swamp adjustment factor, Fp (Use percent pond and swamp area with table 4-2. Factor is 1.0 for zero percent pond and swamp area.) | | | | |
| • Peak discharge, a | _ _ | 98.7 | 134.0 | liel D |
| • Peak discharge, q_p | cfs | 10.7 | 177.0 | 161.0 |
| k an h | | | | |

Worksk 2: Runoff curve number and roff

| Project RCP UNDER 111 A GT (W of US 31) | By JUK | Date 12 30 96 |
|---|---------|---------------|
| Location ALDNG US31 (110THST - 111TH G | Checked | Date |
| Circle one: Present Developed | | |

1. Runoff curve number (CN)

| Soil name and hydrologic group (appendix A) | Cover description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio) | Table 2-2 | Fig. 2-3 N | Fig. 2-4 | Area Area Acres mi ² | Product of CN x area |
|--|---|-----------|------------|----------|------------------------------------|----------------------------|
| CROSE/, C | IMPERVIOUS AREAS | 98 | | | 27.5 | 2695 |
| BROOKSION BLD | N. | 28 | | | 27.5 | 2695 |
| Crosey, c | WOODS (FAIR) | 70 | | | 8.05 | . 563.5 |
| Brookstal, Blb | 11 | 66 | | | 8.05 | 531.3 |
| , | | | | | · | |
| | 1. | | | | | |
| / Use only on | e CN source per line. | Total | .s = | | 71.1 | 6484.8 |

CN (weighted) = $\frac{\text{total product}}{\text{total area}} = \frac{0484.8}{71.1} = \frac{91.2}{10.1}$; Use CN = $\frac{91.2}{10.1}$

2. Runoff

| Frequency | yr |
|-----------------------|----|
| Rainfall, P (24-hour) | in |
| Runoff, Q | in |

| Storm #1 | Storm #2 | Storm #3 |
|----------|----------|----------|
| 2 | 5 | 10 |
| 3.01 | 3,75" | 4.3" |
| 2.09 | 2.805 | 3.332 |

5-YR STORM

| | 90 | 91.2 | 95 |
|------|-------|-------|-------|
| 3.5 | 2.45 | , | 2.94 |
| 3,75 | 2.685 | 2.805 | 3,185 |
| 4.0 | 2.92 | | 3,43 |

10-YR STORM

13-782 SOO SHEET 42-381 SO SHEET 42-382 YOO SHEET 42-382

| | 90 | 91.2 | 95 |
|-----|-------|-------|-------|
| 4.0 | 1.92 | | 3,43 |
| 4.3 | 3.208 | かっろうし | 3,724 |
| 4.5 | 3.4 | | 392 |
| | | | |

SURVEYOR'S OFFICE

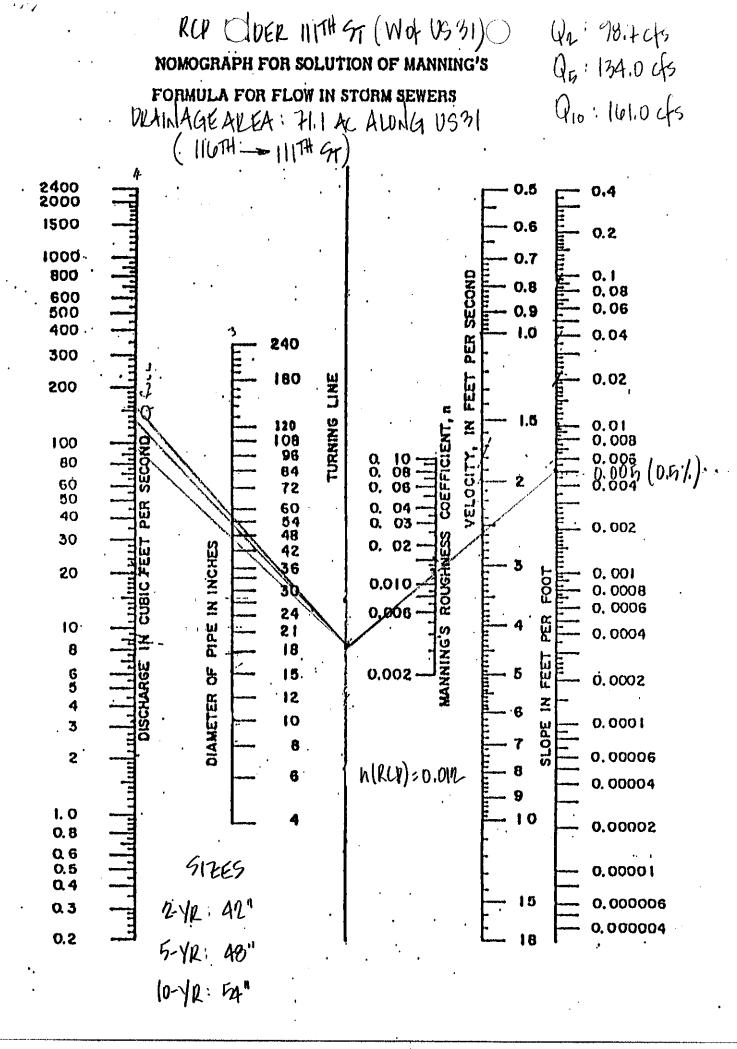
PATE:

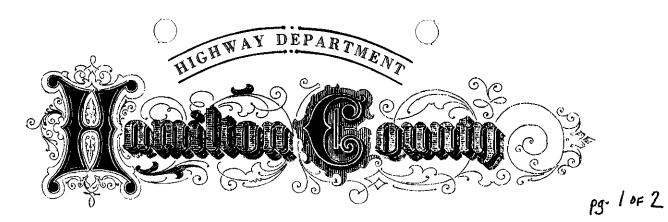
13-722 500 SHEETS, FILER S SOULARE 12-235 SOURCETS PEC-5-255 SOULARE 12-235 COSHEETS PEC-5-255 SOULARE 12-235 CONFECUCED WHITE S SOULARE

Medican Stand

| Worksheet Time of | concentration (T _c) | or trall time (T _t) |
|-------------------|---------------------------------|---------------------------------|
|-------------------|---------------------------------|---------------------------------|

| Project RCP UNIVER 111TH GT (W of US31) | By JLK | <u> </u> | Date 12 30 | 96 |
|--|-----------------|---------------------------------------|--------------|--------------|
| Location 1531 (11114 TO 11174 ST) | Checke | •d | Date | |
| Circle one: Present Developed | | | | |
| Circle one: To Tt through subarea | | · · · · · · · · · · · · · · · · · · · | | |
| NOTES: Space for as many as two segments per flow worksheet. | v type c | an be use | d for each | |
| Include a map, schematic, or description of | of flow | segments. | | |
| Sheet flow (Applicable to T _c only) Segment | E ID | | | |
| 1. Surface description (table 3-1) | | SMOUTHS | URFACES | |
| 2. Manning's roughness coeff., n (table 3-1) | | 0.011 | ļ | |
| 3. Flow length, L (total L \leq 300 ft) | ft | 7001 | | |
| 4. Two-yr 24-hr rainfall, P ₂ | in | 311 | | |
| 5. Land slope, s | ft/ft | 0.005 | L., | |
| 6. $T_t = \frac{0.007 (nL)^{0.8}}{P_2^{0.5} s^{0.4}}$ Compute T_t | hr | 0.037 | + | - 0.087 |
| Shallow concentrated flow Segment | ID | | | |
| 7. Surface description (paved or unpaved) | | PAVED | unpaved | |
| 8. Flow length, L | ft | 7001 | 2350' | |
| 9. Watercourse slope, s | ft/ft | 0.0057 | 0.005 | |
| 10. Average velocity, V (figure 3-1) | ft/s | 1.45 | 1.15 | |
| 11. $T_t = \frac{L}{3600 \text{ V}}$ Compute T_t | hr | 0.134 | + 0.568 | -0.702 |
| Channel flow Segment | ID | | | |
| 12. Cross sectional flow area, a | ft ² | | | |
| 13. Wetted perimeter, p _w | ft | | | |
| 14. Hydraulic radius, $r = \frac{a}{p_{}}$ Compute r | ft | | | |
| 15. Channel slope, s | ft/ft | ·········· | | |
| 16. Manning's roughness coeff., n | | | | |
| 17. $V = \frac{1.49 \text{ r}^{2/3} \text{ s}^{1/2}}{n}$ Compute V | ft/s | | | |
| 18. Flow length, L | ft | | | |
| 19. $T_t = \frac{L}{3600 \text{ V}}$ Compute T_t | hr | | + [| - |
| 20. Watershed or subarea ${	t T}_{	t c}$ or ${	t T}_{	t t}$ (add ${	t T}_{	t t}$ in step | s 6, 11 | , and 19) | h | r 0,789 |





LETTER OF TRANSMITTAL

TO: HAMILTON Co. SURVEYOR'S

| DATE OCT. 24, 1996 | |
|-------------------------------|-------------|
| ATTENTION Kent Word | |
| RE: German Meridian Surburban | Subdivision |
| | |

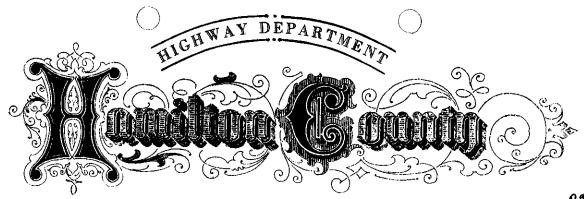
GENTLEMEN:

The following documents are enclosed:

| COPIES | FORM NO. | DESCRIPTION |
|-----------|---------------|---|
| 1 | | Video Tape IA from Fluid Waste |
| 1 | | Video Tape 2A from Fluid Waste |
| 1 | | Invoice from Fluid Waste |
| 1 | | 2 PAGES ENGINEER NOTES |
| ì | | 4 Page memo written by Meridian Surburban Homeowners Assoc |
| 1 | | 4 Page Printout of Activity Cost Summary |
| 1 | | 2 Page memo to Board of Commissioners from Les Locke 10/14/96 |
| 1 | | 3 Page memo to Board of Commissioners from Les Locke 9/23/96 |
| THESE ARI | E TRANSMITTED | FOR YOUR ACTION AS INDICATED: |

| | | Invite | MEMIO | 10 | Duard of | Commiss | HONES TOM | Les Locke | 4/23/96 |
|-------|---|--------|---|-------|----------|---------|-----------------|-----------|---------|
| THESE | ARE TRANSMITTED FOR | OUR A | CTION A | S INI | DICATED: | | | ··· | |
| | Please sign and return the original and | d. | copies. | | | | For your approv | val. | |
| | Retain one copy for your file. | | | | | | For your use. | | |
| | Returned to you for corrections as no | ted. | | | | 12 | For your files. | | |
| | | | | | | | • | | |
| REMAR | RKS: | | • | | | | | | |

COPY TO: SIGNED:



| | U | pg. 2 of 2 |
|---------------|------------------------------|--|
| | | LETTER OF TRANSMITTAL |
| TO: | | DATE |
| | | ATTENTION |
| | | RE: CONTRACT |
| | | |
| GENTLEM | EN: | |
| The following | ng documents are enclosed | |
| COPIES | FORM NO. | DESCRIPTION |
| 1 | | Autocad drawing of grades along 11175 ST. |
| | | 4 pages of field notes from grades taken along 111 + meeting w/DR. CHA |
| 1 | | 2 pages of proposals for various pipe work from D.R. CHILOS CORP. |
| ì | | 20 save of rules in delegation with the first things a |
| i | | Plat for Meridian Surban |
| 1 | | Autocad drawing of Storm Sewer in Meridian Surburban |
| 1 | | 24x36" Drawing for Sanitary Sewer being installed |
| 1 | | 2 pages of profile grade along ditch on west side of us 31 |
| THESE ARI | E TRANSMITTED F | OR YOUR ACTION AS INDICATED: |
| | se sign and return the origi | nal and copies. For your approval. |
| _ | in one copy for your file. | For your use. |
| ☐ Retu | rned to you for corrections | as noted. For your files. |
| REMARKS: | | |
| K | ent - | |
| | | La. Als C. C. S. H. |
| | .I.t you need | l anything else, please give me a call. |
| | | |
| | | Mike |
| | | |
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| | - | |
| COPY TO: | | SIGNED: Michael Dist |
| | | DICTIVITY SELECT AND ALL AREAST |

FLUID WASTE SVICES PO BOX 264 FISHERS, IN 46038 PHONE, 317-773-7996 INVOICE

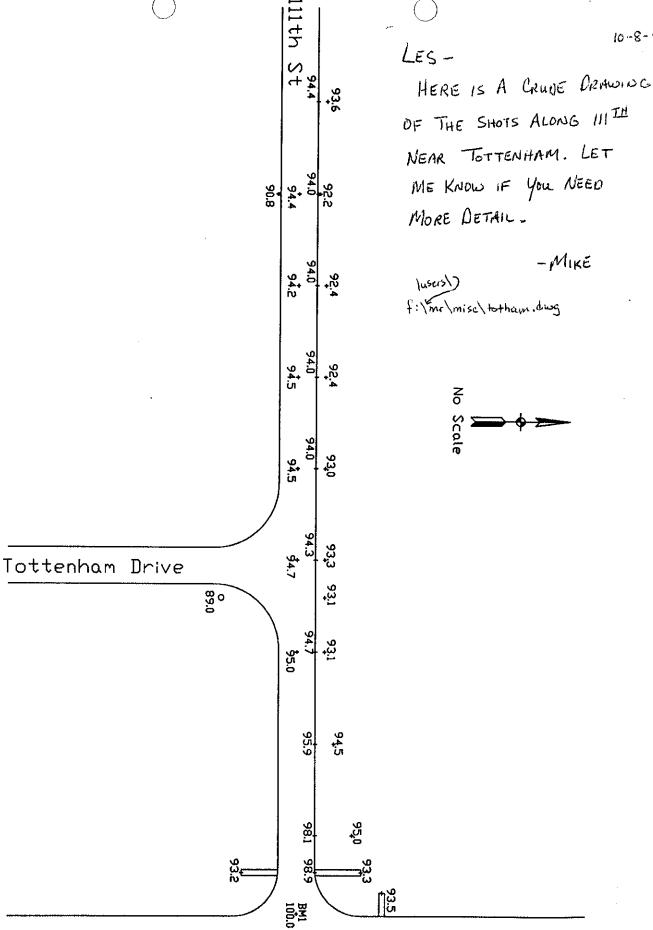
DATE INVOICE#

BILLTO

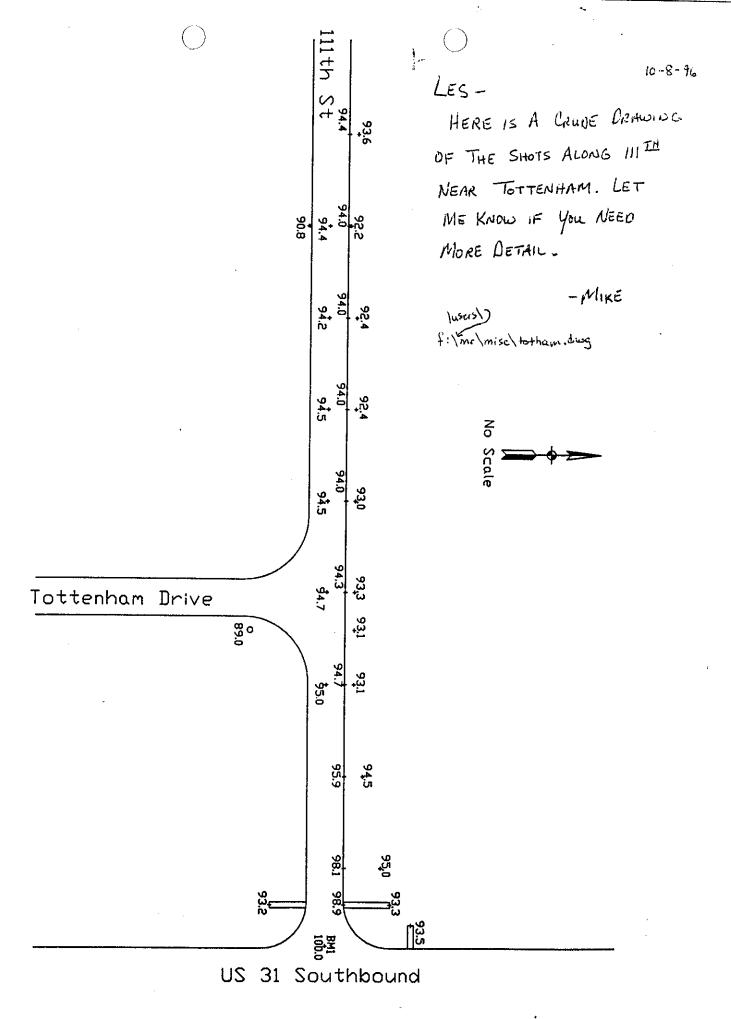
HAMILTON COUNTY HIGHWAY DEPARTMENT 1717 EAST PLEASANT STREET NOBLESVILLE, IN 46060

| | | P.O. NUMBER | TYAMS | PROJECT |
|------------|-----------------------------------|----------------|------------|--|
| | | VERBAL | Net 30 | STORM STRUCTR & PI |
| QUANTITY | DESCRIPTION | | MATE | AMOUNT |
| | COTTINGHAM 111th & US 31 | | | |
| | JET AND VAC STOM LINES AND STRUCT | TRES FOR VIDEO | | |
| 16.5 25 | | HOURLY RATE | 95. | 200 00 1000 01 00 0 1000 000 000 000 000 |
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| | HIGHWAY | | | |
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| Thank you | for your business. | | ТОТА | L 4,055.00 |





US 31 Southbound





JOB COVER SHEET

| Job Location or Number Meridian | Suburb | an | |
|---|----------------|----------|--|
| Client Fluid Waste | | | |
| Date | | | |
| Type of Work Done T.V. S tol | | | |
| Inspector | | | |
| Type of Pipe All | | | |
| Size of Pipe All | ····· | | |
| Laborers Chad | | | |
| | | | |
| | | | |
| Total Man Hours | | | |
| Total time used in transportation to job site | e | | · · · · · · · · · · · · · · · · · · · |
| Total production for the day (feet, yards, e | tc.) | | |
| Camera Truck # 1 | | | |
| Repairs | | | · · · · · · · · · · · · · · · · · · · |
| | | | ************************************* |
| Materials Needed | | | |
| | | | |
| Expenses | | | *. |
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| | | | |
| | \wedge | | |
| S | upervisor Jose | n Holmes | *************************************** |
| Λ | illing Info: | | |
| (4 X 2) | | | |
| $\sqrt{3}$ | | · | |

Quadrants

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| SECTION ON C | , OR AR | EA | 60 | Hingham Estates | | n Saburb | an |
| FROM MANHO | LE NO | ol | 1600 | l wall to MANHOLE ! | | | |
| DIRECTION | No | rth l | N. 5 | PIPE SIZE 30" | PIPE TYPF | concrete | |
| Distance Reading | T | Quadran | | Observations | Infiltration/ Inflow GPD | Recommended Correction Action | Photo No. |
| | | | | FAIR TO GOOD COND. W/SOME | | | |
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| | | | | & LATER DATE | | | |
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| NO. | | ~~ | ~ | NO MANHO | J. E. | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | <u>-</u>) |

MANHOLE NO

DIRECTION OF FLOW

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Quadrant 4

VCRS 0:00:00 VCRE 0:14:56
TOTAL FOOTAGE 335

Osewer-cam

| DATE | 0/1 | 196 | | sheet no Subar ban | | ape 1 | |
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| SECTION ON C | R AREA | ' M | eridian_ | Aubur ban | | 1 | |
| FROM MANHO | LE NO | | 3/4 | TO MANHOL | E NO9/ | 7 | 1 0 |
| DIRECTION | | uth | PIPE SIZE | 10. | PIPE TYPE | Correga | 100 |
| Distance Reading | Qua | idrant 3 4 | | ervations | Infiltration/ Inflow GPD | Recommended Correction Action | Photo No. |
| 25' | | | Transitio | on from c | criegated - | to Puc | |
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MANHOLE NO. 34

DIRECTION OF FLOW

East Quadrant 4 2 mest

VCRS 0114.50 VCRE 0.18:31
TOTAL FOOTAGE 29 1

| DATE | 01 | 1 | _ | 96 | sheet nosheet no | 3 To | apel | · |
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| SECTION ON C | OR AC | A.J.F | | Me | eridion Suburbar | <u> </u> | | |
| FROM MANHO | LE N | O | Č | 1/ | TO MANHOLE | NO | | |
| DIRECTION | N | 01 | 71 | Z | PIPE SIZE 10 11 | PIPE TYPF | Corregoted | |
| Distance Reading | ce Quadrant | | | t | Observations | Infiltration/ Inflow GPD | Recommended Correction Action | Photo No. |
| 10, | | | | | COULD NOT GET PAST THIS POINT | | | |
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| DIR | ECTI | L | OF M | EASU | REMENT FROM CENTER OF MANHOLE | | (1) | F |
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| MANHOLE NO. | - | ~ | ~ | ~ | MANH NC | | adrant 4 X 2 |) |

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DIRECTION OF FLOW

VCRS 0/8:3/ VCRE 0:24:10
TOTAL FOOTAGE 10

| DATE | 10 | 11 | 19 | 6 | SHEET NO | 4 - | Tapel | |
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| SECTION ON | OR AF | REA | Me | ecidian | Suburbor | \ | | |
| FROM MANHO | DLE N | D | | <u>/+ </u> | TO MANHOL | E NO | <u> </u> | |
| DIRECTION _ | E | ist | | PIPE SIZE | 100 | PIPE TYPE | Concrete. | |
| Distance Reading | 1 | Quadra 2 3 | int 3 4 | Observations | | Infiltration/ Inflow GPD | Recommended Correction Action | Photo No. |
| 201 | | | 1 | 4 Lateral | Comine in | | | |
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| MANHOLE NO. | - | ~~ | _ | ~~~~ | | ihole) Qi | uadrant (4 X 2 | 2) |

DIRECTION OF FLOW

VCRS 0124:11 VCRE 0129:42 TOTAL FOOTAGE 201

| DATE | 13/96 | SHEET NO | <u>6</u> /c | rpel | |
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| SECTION ON | OR AREA | neridian Suburban | | | "-" |
| | | 2 TO MANHOLE | = NO / | | · · · · · · · · · · · · · · · · · · · |
| DIRECTION | West | PIPE SIZE 12 | PIPÉ TYPE | concrete | |
| Distance Reading | Quadrant 1 2 3 | Observations | Infiltration/ Inflow GPD | Recommended Correction Action | Photo No. |
| 20' | | STOPPED CAMING BEND IN | | | |
| | | Z 70 1 | | | |
| 24' | | MOST UNDER WATER | | | |
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| DI | IRECTION OF ME | ASUREMENT FROM CENTER OF MANHOLE | _ | (, \(\) | 17.00 |
| MANHOLE NO. | | MAP | 1 | Quadrant 4 | 2) No1+h |

DIRECTION OF FLOW

VCRS 0:34:64 VCRE 0.138:55 TOTAL FOOTAGE ____

VCRS 0: 27:42 VCRE 0:34:04

TOTAL FOOTAGE ___

Sewer-caro

| ECTION | OLE NO | Meridian Saburba 2 TO MANH | PIPE TYPE | Canarete. | |
|---------------------|-------------------|----------------------------|--------------------------------|-------------------------------------|--------------|
| Distance Reading | Quadrant 1 2 3 | Observations | Infiltration/ Inflow GPD | Recommended Correction Action | Photo No. |
| 4.5' | | Leach | | | |
| 01 | \ | Crack /pipe miss | sing. | | |
| 7' | | Leach /pipe miss | | | |
| | | 8.3' CHECK FOR LATERAL | | | |
| | | DAMAGE | | | <u></u> |
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DIRECTION OF FLOW

VCRS 0!38:56 VCRE 1:00 42

TOTAL FOOTAGE 4121

Sewer-caro

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| SECTION ON C | OR AF | REA | | eridien su | bur bon | | 3 | |
| EDOM MANHO | EN | 0 | | ^ | TO MANHOLE! | NO | | |
| DIRECTION South | | | <u> </u> | PIPE SIZE | 12 " | PIPE TYPE | Loncreta | • |
| Distance Reading | | Quad | | Observation | | Infiltration/ Inflow GPD | Recommended Correction Action | Photo No. |
| 4 41 | 1 | | | Crack | | | | |
| | 1 | | | Crack Ipipe | missing | <u>/</u> | | · |
| 10° | 1 | | | breakin | pipe. | | | |
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| (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | · · | - / | \ 7 | Quadrant 4 | 2 |
| MANHOLE | - | ~ | ~~ | ~~~~ | MANI | | · · · · · · · · · · · · · · · · · · · | ~) |

DIRECTION OF FLOW

| DATE | 13/ | 96 | | | _ SHEET NO | 8 7 | apel | |
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| SECTION ON C | ' OR ARE | EA | 11 | ecidian | Subu. | ban | | |
| SOOM MANHO | : E NO | | | 3 | TO MANHOL | E NO | 5 | |
| DIRECTION | Sol | 1th | Concrete | | | | | |
| Distance Reading | | Quadran 2 3 | t | Observa | | Infiltration/ Inflow GPD | Recommended Correction Action | Photo No. |
| 0-50' | | | | Roots. | · · · · · · · · · · · · · · · · · · · | | | |
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| MANHOLE NO. | } | ~ | | ~~~~ | ~~ MAI | NHOLE) | Quadrant 4 | 2) |

DIRECTION OF FLOW

VCRS 1:0042 VCRE 1:18:48 TOTAL FOOTAGE

| DATE | / 3/ | 76 | | _ SHEET NO | 9 Tap | 201 | |
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| | | Ø | 6 | TO MANHOL | E NO | <i>5.</i> 1 | |
| DIRECTION | Nor | th | PIPE SIZE | <u> 30 ''</u> | PIPE TYPE _ | Concret | ۴ |
| Distance Reading | Que 1 2 | adrant 3 4 | Observa | ations | Infiltration/ Inflow GPD | Recommended Correction Action | Photo No. |
| 55' | | | Seperate | d join | 1 + - | | |
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| MANHOLE NO. | - | <u> </u> | ~~~ <u>~</u> | ~~ M/ | NO) | \ ' / | |
| 6 | | → | | | 5 | | 3) |
| | | ı | DIRECTION OF FLOW | | | CBS / 13179 | VCRE 1:45:48 |
| | | | | | | OTAL FOOTAGE | 475' |
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VCRS 1:45:48 VCRE 1:56:43

TOTAL FOOTAGE 169'

SEWER-CAN

| DATE | 1/3/96 | SHEET NO. | 10 | Tape I | |
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| SECTION ON (| | ecition Suburat | | | |
| | | 7 TO MANHOLI | E NO | | |
| DIRECTION | West | PIPE SIZE / 8 11 | PIPE TYPE | Concrete | |
| Distance Reading | Quadrant 1 2 3 4 | Observations | Infiltration/ Inflow GPD | Recommended Correction Action | Photo No. |
| 10' | | seperated joint | | | |
| 10' 56' | | seperated joint | | | |
| 55' | | Possible REDUCTION TO | | | |
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| | DECTION OF MEAS | SUREMENT FROM CENTER OF MANHOLE | <u> </u> | | |
| | NEUTION OF MEAS | SUNEMENT FROM CENTER OF MANAGE | | South 1 | North |
| MANHOLE | | → / | NHOLE C | Quadrant 4 X 2 | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |
| NO. | | MAP | NO P | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | -) |
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DIRECTION OF FLOW

VCRS 6:00:00 VCRE 6:0248

TOTAL FOOTAGE 621

SEWER-CAR

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| EROM MANHO | I E NO | | <i></i> | IU MANHUL | LE NU | | · |
| DIRECTION | N | 0/2- | | PIPE SIZE 211 | PIPE TYPF | Concrete | |
| Distance Reading | C | uadran 2 3 | ıt | Observations | Infiltration/ Inflow GPD | Recommended Correction Action | Photo No. |
| 62' | | | 1 | Lateral | | | |
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| MANHOLE NO. | - | <u>~</u> | ~ | MA S | NHOLE) Q | uadrant 4 X 2 | 2) |

DIRECTION OF FLOW

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| ECTION ON C | DR AREA | | | | |
| IOM MANHO | North | | PIPE TYPE | ?VC | |
| Distance Reading | Quadrant 1 2 3 4 | Observations | Infiltration/ Inflow GPD | Recommended Correction Action | Photo No. |
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| MANHOLE | | ← / | ANHOLE | west 4 | 2) 161+ |
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| FROM MANHO | LE NO. | 10 11 | | | | |
| DIRECTION _ | South | PIPE SIZE | PIPE TYPE | TYPE PUC | | |
| Distance Reading | Quadrant 1 2 3 4 | Observations | Infiltration/ Inflow GPD | Recommended Correction Action | Photo No. | |
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| | DIF | RECTION OF FLOW | VCR | IS 0:06:34 VCRI | 6:08:31 | |

TOTAL FOOTAGE 30

| DATE // | /3/ | 196 | · | .: 1' | SHEET NO. | T 79 | pe 2 | |
|---------------------|--------|-----------------------|---------------|---------------------|-------------|--------------------------------|---------------------------------------|--------------|
| SECTION ON | OR AR | EA | 77 e | A | TO MANIHOLE | NO 3 | | |
| FROM MANHO | EA. | o 5 / _ | | PIPE SIZE | /a" | PIPE TYPE | E PYC | |
| Distance Reading | | Quadra 2 | ant | Observati | | Infiltration/ Inflow GPD | Recommended Correction Action | Photo No. |
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| | | | DI | RECTION OF FLOW | _ | VCR | S 0:08:21 VCRI | 0114:48 |

TOTAL FOOTAGE _____

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| ECTION | | NC | s f | | PIPE S | IZE | 1211 | | PIPE T | /PF | <u> </u> | 1 Puc | <u> </u> | |
| Distance Reading | T | Quad | | | | Observ | | | Infiltra Infl GF | ition/ ow | Recom Corr | mended ection tion | F | hoto No. |
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DIRECTION OF FLOW

VCRS 0:14:48 VCRE 0:20:05

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DIRECTION OF FLOW

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| istance leading | T | Quad | drant | | , | Observations | | | Infiltration/ Inflow GPD | Recommended Correction Action | Photo No. |
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DIRECTION OF FLOW

VCRS 020:05 VCRE 0:20:05
TOTAL FOOTAGE 41

ORDINANCE NO. 8-28-00-

A PROPOSED ORDINANCE TO AMEND THE HAMILTON COUNTY COMPREHENSIVE PLAN, ORDINANCE NO. 12-05-95, AND THE HAMILTON COUNTY THOROUGHFARE PLAN AND MAP AS AMENDED, AN INTEGRAL COMPONENT OF THE HAMILTON COUNTY COMPREHENSIVE PLAN.

WHEREAS, the Board of Commissioners of Hamilton County, on the 5th day of December, 1989, passed an ordinance providing for a Comprehensive Plan and a County wide Thoroughfare Plan for Hamilton County, and

WHEREAS, the Hamilton County Plan Commission has held the required Public Hearing and recommends an amendment to said ordinance, and

WHEREAS, the Board of Commissioners of Hamilton County have held the required Public Meeting concerning said amendments, and

WHEREAS, the Board of Commissioners find it is in the best interest of the County to promote good thoroughfare planning for the County,

IT IS THEREBY ORDAINED by the board of Commissioners that the Hamilton County Thoroughfare Plan & Map be amended as follows:

- 1. Change 146th Street from a primary arterial with a 120 ft. right-of-way to a primary arterial with a 150 ft. right-of-way from Hamilton County/Boone County limits to White River.
 - Show extension of West Road as a proposed collector road from 141st Street north to 146th Street with a proposed right-of-way of 80 ft.
- 3. Show extension of 136th Street as a proposed collector road west from Towne Road to West Road with a proposed right-of-way of 80 ft.
- 4. Change 136th Street from a collector road with an 80 ft. right-of-way to a secondary arterial with a 90 ft. right-of-way from Towne Road east to Spring Mill Road.
- 5. Change 131st Street from a secondary arterial with a 90 ft. right-of-way to a residential parkway with a 100 ft. right-of-way from Spring Mill Road west to the Hamilton County/Boone County limits.
- 6. Change 131st Street from a secondary arterial with a 90 ft. right-of-way to a secondary parkway with a 120 ft. right-of-way from Spring Mill Road east to Guilford Road.

- 7. Change 131st Street from a secondary arterial with a 90 ft. right-of-way to a residential parkway with a 100 ft. right-of-way from Guilford Road east to River Road.
- 8. Show extension of 126th Street as a proposed collector road with an 80 ft. right-of-way from Shelborne Road west to West Road.
- 9. Change location of 126th Street extension as a collector road with an 80 ft. right-of-way east of Towne Road from existing proposed route to Spring Mill Road to proposed route to Ditch Road.
- 10. Change 116th Street from a primary arterial with a 120 ft. right-of-way to a primary parkway with a 140 ft. right-of-way from the Hamilton County/Boone County limits to the White River.
- 11. Change 106th Street from a collector road with an 80 ft. right-of-way to a residential parkway with a 100 ft. right-of-way from Spring Mill Road to the Hamilton County/Boone County limits.
- 12. Change 106th Street from a secondary arterial with a 90ft, right-of-way to a primary arterial with a 150 ft. right-of-way from Spring Mill Road east to Pennsylvania Parkway.
- 13. Change 96th Street from a collector road with an 80 ft. right-of-way to a primary arterial with a 150 ft. right-of-way from the Hamilton County/Boone County limits to east of Shelborne Road.
- 14. Change 96th Street from a collector road with an 80 ft. right-of-way to an "area of special study corridor" from just east of Shelborne Road to Spring Mill Road.
- 15. Change 96th Street from a collector road with an 80 ft. right-of-way and a primary arterial with a 120 ft. right-of-way to a primary parkway with a 140 ft. right-of-way from Spring Mill Road to College Avenue
- 16. Change 96th Street from a secondary arterial with a 90 ft. right-of-way to an "area of special study corridor" from College Avenue to Keystone Avenue
- 17. Change 96th Street from a primary arterial with a 120 ft. right-of-way to a primary arterial with a 150 ft. right-of-way from Keystone Avenue to White River.
- 18. Add Carmel Drive as a secondary arterial with a 90 ft. right-of-way from Rangeline Road east to Keystone Avenue.
- 19. Change existing Carmel Drive, a local road with a 50 ft. right-of-way, to a collector road with an 80 ft. right-of-way from Keystone Avenue to 126th Street.

- 20. Change 126th Street from a collector road with an 80 ft. right-of-way to a secondary arterial with a proposed 90 ft. right-of-way from Hazeldell Parkway to River Road.
- 21. Add new proposed road (an extension of Avian Way to the west) as a proposed collector road with an 80 ft. right-of-way from Hazeldell Parkway east to River Road.
- 22. Reconfigure Cherry Tree Road, a proposed collector road, with an 80 ft. right-of-way at its intersection with extended Avian Way.
- 23. Add new proposed road (an extension of West Road) north from 141st Street to 146th Street as a proposed collector road with an 80 ft. right-of-way.
- Add secondary arterial road system on the east and west side of Michigan Road between 106th Street and 96th Street with a proposed right-of-way of 90 ft.
- 25. Add a new proposed road halfway between Shelborne Road and Towne Road from 126th Street north to 146th Street. This road is to be a collector road with a proposed right-of-way of 80 ft.
- Change Towne Road from an existing primary arterial with a 120 ft right-of-way to a primary parkway with a proposed right-of-way of 140 ft. from 96th Street to 146th Street.
- Add a new proposed collector road with a right-of-way of 80 ft. halfway between Towne Road and Ditch Road from 136th Street to 146th Street.
- 28. Change Spring Mill Road from just north of I-465 to 146th Street from an existing collector with an 80 ft. right-of-way/secondary arterial with a 90 ft. right-of-way to a residential parkway with a 100 ft. right-of-way.
- 29. Add a secondary parkway (called Illinois Parkway) between Spring Mill Road and Meridian Street (U.S. 31) with a right-of-way of 120 ft. A part of this road is now classified as a secondary arterial with a right-of-way of 90 ft.
- 30. Change Rohrer Road from a local road with a proposed right-of-way of 50 ft. to a collector road with 80 ft. right-of-way.
- 31. Change Meridian Street, U.S.31, from an Expressway (right-of-way per Federal/State Standards) to a Freeway/Interstate (right-of-way per Federal/State Standards).

- 32. Change Pennsylvania Street from a secondary arterial with a proposed right-of-way of 90 ft. to a secondary parkway with a proposed right-of-way of 120 ft. from College Avenue to Old Meridian Street.
- 33. Change Old Meridian Street from an existing collector road with an 80 ft. right-of-way to a secondary parkway with a proposed right-of-way of 120 ft.
- 34. Add and change Carmel Drive from a secondary arterial with a proposed right-of-way of 90 ft. to a primary arterial with a right-of-way of 150 ft. from Illinois Parkway to Old Meridian Street.
- 35. Change College Drive, from Congressional Blvd. to Pennsylvania Street, from a local road with a right-of-way of 50 ft. to a secondary arterial with a right-of-way of 90 ft.
- 36. Change Congressional Blvd. from a local and secondary arterial with a right-of-way of 50 ft. and 90 ft. to a collector road with a right-of-way of 90 ft.
- 37. Change 122nd Street/Adams Street from an existing local road of 50 ft. right-of-way to a proposed primary parkway with a 140 ft. right-of-way.
- Change Westfield Blvd./Range Line Road from 96th Street to 116th Street, currently a proposed primary arterial with a 120 ft. right-of-way, to a residential parkway with a 100 ft. right-of-way; and from 116th Street to 146th Street, currently a primary arterial with a 120 ft. right-of-way, to a secondary arterial with a right-of-way of 90 ft.
- 39. Change Keystone Avenue from 96th Street to 146th Street from a proposed Expressway with a (to be determined right-of-way) to a Freeway/Interstate with a (to be determined right-of-way).
- 40. Change Haverstick Road from an existing local road with a proposed right-of-way of 50 ft. to a collector road with a proposed right-of-way of 80 ft.
- 41. Change Gray Road from 96th Street to 116th Street from an existing primary/secondary arterial with a proposed right-of-way of 120 ft. and 90 ft. to a secondary parkway with a proposed right-of-way of 120 ft.
- 42. Change Hazeldell Road from 96th Street to 146th Street from a proposed primary arterial with a proposed right-of-way of 120 ft. to a Primary Parkway with a right-of-way of 140 ft.
- 43. Change River Road from 126th Street to 131st Street from an existing collector road with a proposed right-of-way of 80 ft. to a secondary arterial with a proposed right-of-way of 90 ft.

- 44. Amend the proposed road right-of-way alignment and width for 96th Street from Keystone Avenue to the Boone County Line per the 96th Street Corridor Study Michigan Road to Keystone Avenue, by Parsons Burnckerhoff Dec. 1999
- Amend the proposed road right-of-way alignment and width for 146th Street from Spring Mill to the Boone County Line per Board of Commissioners Hamilton County 146th Street Corridor Supplement to Hamilton County Comprehensive and Thoroughfare Plan, by American Consulting Engineers of Indiana dated August 21, 1996.
- Amend the proposed road right-of-way alignment and width for the 116th Street and Shelborne Road intersections per <u>Traffic Study Intersection Improvements of 116th Street and Shelborne Road in Clay Township</u> by Paul I Cripe, Inc. dated October 07, 1998.

| Dated this | 11_ | day of | pl | | 2000. |
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Steve Holt President

Steve Dillinger, Vice President

Sharon Clark, Member

ATTEST:

Hamilton County Auditor

9-11-200:

Date

Requested By: HCSO 05\17\2002

13.00

2.00

Instrument

9809855801 Filed for Record in HAMILTON COUNTY, INDIANA MARY L CLARK On 10-02-1998 At 04:04 PM

CONSENT TO ENCROACHMENT

THIS AGREEMENT, made and entered into this 3rd day of August, 1998, by and between LESLIE O. CURTIS and DEBORAH D. CURTIS (hereinafter called "First Party"), and SCOTT W. EICHMAN and DIANA L. EICHMAN (hereinafter "Second Party"):

WHEREAS, First party is the owner of real estate located in Hamilton County, Indiana, being described as follows:

Lot Number Thirty-Three (33) in Meridian Suburban First Section, an Addition in Hamilton County, Indiana, as per plat thereof, recorded in Plat Book 2, page 97, in the Office of the Recorder of Hamilton County, Indiana.

and commonly known as 11032 Tottenham Drive, Carmel, IN 46032, which said real estate adjoins the hereinafter described real estate owned by Second Party to the South; WHEREAS. Second Party is the Owner of real estate located in Hamilton County. State of Indiana, being described as:

Lot Number Thirty-Four (34) in Meridian Suburban First Section, an Addition in Hamilton County, Indiana, as per plat thereof, recorded in Plat Book 2, page 94, in the Office of the Recorder of Hamilton County, Indiana.

and commonly known as 11022 Tottenham Drive, Carmel, IN 46032, which said real estate adjoins the hereinafter described real estate owned by First Party to the North: WHEREAS, it would appear that pursuant to a Survey prepared by Richard A. O'Brien, dated July 7, 1997, a copy of which is attached hereto and incorporated herein as Exhibit "A" that the fence now located on the property of Second Party may encroach over and across the property of First Party for 3 feet +:- as reflected on Exhibit "A"; and

WHEREAS, it is the desire and intent of the Parties hereto to permit said fence to remain as now situated, for the use and convenience of the Second Party, without such continued use in any way serving as a basis for the Second Party to acquire any right, title or interest in and to that real estate owned by First Party.

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENCE, that for and in consideration of the mutual covenants and agreements herein contained and set forth, the Parties hereto now mutually promise, covenant and agree as follows:

- 1.) First Party does hereby consent to the encroachment of the fence now belonging to the property of Second Party as identified in Exhibit "A" Attached Hereto and Incorporated Herein.
- 2.) It is mutually understood and agreed that such consent to encroachment does not create in Second Party any right, title or interest in and to that portion of real estate owned by First Party upon which said existing fence now or hereafter may be located.

3.) The covenants and agreements herein contained and set forth shall be construed as covenants and agreements running with the title to each of the above-described parcels of real estate and shall be binding upon the Parties hereto, their respective heirs, devisees, legal representatives and assigns.

IN WITNESS WHEREOF, the Parties have hereunto set their hands and seals the day and year first above written.

| FIRST PARTY | | SECOND PARTY | |
|--|--------------------|---|---------------------------------|
| Hesto Cutis | • | Scatt W. EL SCOTT W. EICHM | -hvnz AN |
| DEBORAHD. CURTIS | urtie | Olana L. EICHM | ********* |
| STATE OF INDIANA COUNTY OF HAMILTON |)) SS:) | | 2/53/ |
| Before me a Notary Public LESLIE O. CURTIS and D. of the foregoing Consent to Er | EBORAH D. C | County and State, personally URTIS, who acknowledge | y appeared d the execution |
| WITNESS my hand and N | | | . / |
| My Commission Expires: | Signatu | ire Marilyn & | Varluson |
| 6-26-2001 | Printed | MARIL YN HA Notary Public | RBISON |
| Residing in Abmilton | | | 11.10 |
| STATE OF INDIANA |) | | |
| COUNTY OF HAMILTON |) SS:) | | 60 |
| Before me a Notary Public SCOTT W. EICHMAN and of the foregoing Consent to Er | DIANA L. EIC | ounty and State, personally THMAN, who acknowledge | y appeared ged the execution |
| WITNESS my hand and ? | Votarial Seal this | 3 day of August, 1998. | |
| My Commission Expires: | Signatt | ire Thyw EM | dley |
| 4/1/00 | Printed . | MYRA E. MEDLE Notary Public | ≯ |
| Residing in Hamulton | County, Inc | diana. | |

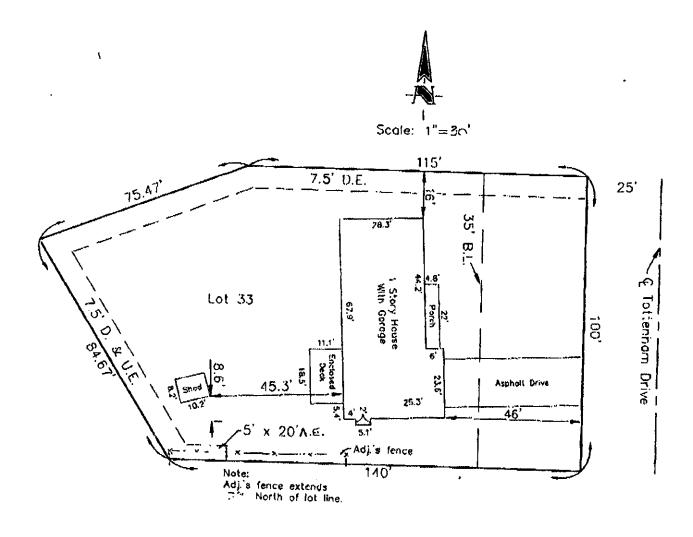
This instrument prepared by Michael J. Curry, Attorney-at-Law.

SURVEYOR LOCATION REPORT

THIS RE-ORT IS DESIGNED FOR USE BY A TITLE INSURANCE COMPANY WITH RESIDENTIAL LOAN POLICIES. NO CORNER MARKERS WERE SET AND THE LOCATION DATA HEREIN IS BASED ON LIMITED ACCURACY MEASUREMENTS. THEREFORE, NO LIABILITY WILL BE ASSUMED FOR ANY USE OF THIS DATA FOR CONSTRUCTION OF NEW IMPROVEMENTS OR FENCES.

PROPERTY ADDRESS: 11032 Tottenham Drive

PROPERTY DESCRIPTION: Lot 33 in MERIDIAN SUBURBAN FIRST SECTION the plat of which is recorded in Plat Book 2, Pages 174-175, in the Office of the Recorder of Hamilton County, Indiana.



TITLE COMPANY: ENTERPRISE TITLE SERVICES OF INDIANA, INC.

LENDER: IRWIN MORTGAGE CORPORATION

I hereby certify to the parties named above that the real estate described herein was inspected under my supervision on the date indicated and that to the best of my knowledge, this report conforms with the requirements contained in Sections 27 through 29 of 865 IAAC 1-1-12 for a SURVEYOR LOCATION REPORT.

PURCHASER: Leslie O. & Deborah D. Curtis

ExLibI+"A"

CLIENT NO:

98-9993

CERTIFIED:

07/07/98

B NHAH ASSOCIATES, INC.

Engineers & Surveyors

2850 E. 96th Street • Indianapolis, IN 46240-3715 (317) 846-4119 / FAX: 582-0662

RICHARD A. O'BRIAN REGISTERED LAND SURVEYOR, INDIANA #8800177

JOB NO: 98071127





June 18, 2002

WRITER'S DIRECT NUMBER: (317) 236-2319
DIRECT FAX: (317) 592-4788
INTERNET: weiss@icemiller.com

VIA FACSIMILE: 776-9628 & CERTIFIED MAIL RETURN RECEIPT REQUESTED

Kenton C. Ward Hamilton County Surveyor One Hamilton County Square Suite 188 Noblesville, IN 46060-2230

RE: Meridian Suburban Drain

Valley Development Co., Inc./NRC Corp.

Dear Mr. Ward:

We are counsel to Valley Development Co., Inc. ("Valley Development") and NRC Corp. ("NRC"), both of which are property owners affected by the proposed expansion of Meridian Suburban Drain. Reference is hereby made to your letter dated May 17, 2002, together with the various notices provided to Valley Development and NRC in connection therewith.

In each of the notices you provided to Valley Development and NRC, you failed to assess any damages. However, both NRC and Valley Development believe that they have been damaged as a result of the expansion of the drain and the way the same bisects its respective properties. We would like to have this matter addressed. However, I am unable to attend your proposed meeting date of June 24, 2002. We respectfully request that that hearing be reset so as to allow us to present information and evidence at that hearing.

We appreciate your consideration and rescheduling of this hearing. I will be out of the office during the period of June 20-28, 2002. Otherwise, I will generally be available during July and August.

Please call at once if there is any difficulty in providing the requested continuance.

Very truly yours,

ZAW/sd

JUN 2 4 2002

OFFICE OF MANUFACT COURTS SHIPPLYON

11:13 AM



June 18, 2002

Writer's Direct Number: (317) 236-2319
Direct Fax: (317) 592-4788
Internet: weiss@ice miller.com

VIA FACSIMILE: 776-9628 & CERTIFIED MAIL RETURN RECEIPT REQUESTED

Kenton C. Ward Hamilton County Surveyor One Hamilton County Square Suite 188 Noblesville, IN 46060-2230

RE:

Meridian Suburban Drain

Valley Development Co., Inc./NRC Corp.

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Please call at once if there is any difficulty in providing the requested continuance.

Very truly yours,

ICE MILLER

Zeff A. Weiss

ZAW/sd

INDY 1008478v1



ICEMILLER"

June 19, 2002

Writer's Direct Number: (317) 236-5958
Direct Fax: (317) 592-5439
Interner: marsh@icensiler.com

VIA FACSIMILE & INDY EXPRESS COURIER

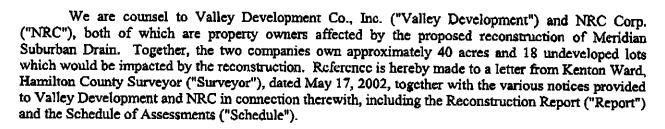
Hamilton County Drainage Board 33 N. 9th Street, #L21 Noblesville, IN 46060

Re:

Meridian Suburban Drain Reconstruction

Valley Development Co., Inc./NRC Corp.

Dear Sir or Madam:



Pursuant to Indiana Code section 36-9-27-52(d), Valley Development and NRC hereby object to the Report and the Schedule. Valley Development and NRC are owners of land that will be damaged by the reconstruction, but the Hamilton County Drainage Board ("Board") failed to find that their land will be so damaged. See IC § 36-9-27-52(d)(3)(A).

Valley Development and NRC further request a continuance for this matter to the next public meeting of the Board to allow their engineers a reasonable opportunity to work with the Surveyor and propose changes to the Report which would accomplish the intended result and lessen the damage to their land. We will renew our request for a continuance at the June 24, 2002 hearing.

Should you have any questions, please contact me at (317) 236-5958.

Very truly yours,

Thin

Tanya D. Marsh

cc:

Mark Howard, Esq. (via facsimile #776-2369)
Stephen L. Valinet, President, Valley Development Co., Inc. and NRC Corp. Zeff A. Weiss, Esq.



TRANSMITTAL COVER SHEET

| DATE: June 19, 2002 | | | PAGES (INCLUDING | THIS PAGE) |
|---------------------|-----------------------------------|--------------------------------------|-----------------------------|----------------|
| HARD | COPY TO FOLLOW: | Yes X No _ | VIA: Mail | Courier X |
| | TO: | COMPANY: | FAX NO.: | PHONE NO.: |
| 1. | Hamilton County Drainage Board | | (317) 776-9628 | |
| | | | | |
| FROM | : Tan | ya D. Marsh | TELEPHONE NO.: | (317) 236-5958 |
| | | idian Suburban Drain Re NRC Corp. | construction – Valley Devel | opment Co., |
| COMM | IENT\$: | | | |

WARNING CONFIDENTIALITY NOTICE: This cover sheet and the materials enclosed with this transmission are the private confidential property of the sender, and the materials are privileged communications intended solely for the receipt, use, benefit and information of the intended recipient indicated above. If you are not the intended recipient, you are hereby notified that any review, disclosure, copying, distribution, or the taking of any other action in reliance on the contents of this transmission is strictly prohibited, and may result in legal liability on your part. If you have received this transmission in error, please notify us immediately at the telephone number below and arrange for return of this transmission to us.

| CLIENT/MATTER NO. | 17718.0003 | JOB CODE (Fax Center Use Only): | 32197 |
|-------------------|------------|---------------------------------|-------|
|-------------------|------------|---------------------------------|-------|

Robert E. & Carol J. Scott 11015 Tottenham Drive Carmel, IN 46032

Tricia J. Banta, P.E. Hamilton County Surveyor's Office One Hamilton County Square, Suite 188 Noblesville, IN 46060-2230

RE: June 24, 2002, 9:05 A.M. Drainage Project Hearing

Dear Ms. Banta,

This letter is a response to the letter we received concerning the proposed drain repair for the Meridian Suburban Subdivision, and our individual meeting with you on May 31, 2002. As we cannot attend the June 24, 2002 meeting regarding this proposal, we write our concerns to be presented and recorded at the meeting.

From our discussion on May 31st, it was stated, as we understood it, that the plan being proposed may or may not permanently fix the area's drainage problem.

• The first concern is the exorbitant 35-foot easement on our property to allow moveability of large-machinery to accomplish repair of drain pipes without damaging the street. This 35-foot easement comes all the way up the hill to our garage. Located within these 35 feet is a huge Blue Spruce tree (which was the last gift given to Mrs. Scott by her mother) and on the other side of our driveway is a huge deciduous tree planted when the house was new. We do not see any reason for these trees to be harmed or cut down in order for this public drainage project, which may or may not, permanently fix the area drainage problem, to be completed. If this were absolutely necessary, we would expect Hamilton County to replace these trees with same very mature trees.

It is extremely unfair that we, as well as other residents on our side of the street, where the unrealistic 12" pipes are located, should lose our beautiful, environmentally-beneficial possessions in the name of the common good of this drainage project, which may or may not, permanently fix the area drainage problem.

 Of second concern is the cost of this project. We understand that each household has been charged a one-time \$536 fee, payable in one year at no interest, for this public work. Why cannot tax monies be used?

We are one of perhaps 8 retired households in this subdivision. As retirees on fixed incomes, the \$536 assessment, payable in one year, means we need to find an extra approximately \$45 per month to meet the cost for this public upgrade, **again, which may or may not permanently fix** the drainage problem. Other families are young with small children; others with high school, and college students. We are **NOT** the typical \$200,000-\$100 cm; WO Carmel community.

1

RE: June 24, 2002, 9:05 A.M., Drainage Project Hearing

June 11, 2002

Page 2

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Other questions -

- 1. We understand that there are different drainage zones, but do wonder where the drainage water from the new adjacent Spring Mill Place addition just west of Meridian Suburban goes. It appears there is only ONE drain showing in all the curbing on their streets. In one of the cul-de-sacs, there is a gigantic concrete sewer opening. We also understand that part of the drainage from 111th will be diverted to the undeveloped Liverpool Street. Since water drains across 111th from the farm to a ditch located on the south side of 111th behind the Spring Mill Place addition, could not all 111th street drainage be diverted to the Spring Mill Place addition's drain off, even if it is in another drainage shed?
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Respectfully submitted.

Carol J. Scott Residents of Meridian Suburban Subdivision

Lot 4

Hamilton County Surveyor's Office Attention: Tricia Banta and/or Kent Ward One Hamilton County Square, Suite 188 Noblesville, IN 46060

June 19, 2002

Dear Tricia and/or Kent:

We are writing this objection 5 days prior to the meeting according to your letter regarding the Meridian Suburban Drain. Our objections are as follows:

1. \$536 may be too high for the benefits that will result to us. However, we are not objecting to the project, we are just inquiring about the cost.

2. \$50 annual maintenance fee seems quite high.

Thank you for your attention to these matters.

Sincerely, cara Ecchman

Scott & Diana Eichman 11022 Tottenham Drive

Carmel, IN 46032



Scott & Diana Eichman



| To: | Trici | a J. Banta | From: | Scott & Diana Eichr | nan |
|--------|-------|----------------|------------------|---------------------|----------------------|
| Fax | 776- | 9628 | Pages: | 2 including cover | |
| Phone: | 776 | 9627 | Date: | 06/19/02 | rection and the real |
| Ro: | Drai | nage Objection | CCı | | |
| □ Urga | ont | ☐ For Review | ☐ Please Comment | ☐ Please Reply | □ Please Recycle |
| | | | | | |

Robert E. & Carol J. Scott 11015 Tottenham Drive Carmel, IN 46032

Tricia J. Banta, P.E. Hamilton County Surveyor's Office One Hamilton County Square, Suite 188 Noblesville, IN 46060-2230

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Respectfully submitted,

Robert E. Scott

and

Carol J. Scott

Residents of Meridian Suburban Subdivision

Lot 4

ICEMILER*

June 19, 2002

Writer's Direct Number: (317) 236-5958
Direct Fax: (317) 592-5439
Internet: match@iccntiller.com

VIA FACSIMILE & INDY EXPRESS COURIER

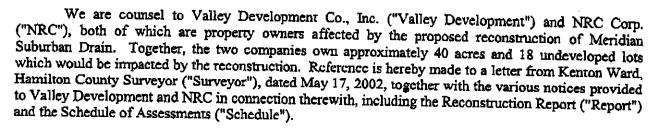
Hamilton County Drainage Board 33 N. 9th Street, #L21 Noblesville, IN 46060

Re:

Meridian Suburban Drain Reconstruction

Valley Development Co., Inc./NRC Corp.

Dear Sir or Madam:



Pursuant to Indiana Code section 36-9-27-52(d), Valley Development and NRC hereby object to the Report and the Schedule. Valley Development and NRC are owners of land that will be damaged by the reconstruction, but the Hamilton County Drainage Board ("Board") failed to find that their land will be so damaged. See IC § 36-9-27-52(d)(3)(A).

Valley Development and NRC further request a continuance for this matter to the next public meeting of the Board to allow their engineers a reasonable opportunity to work with the Surveyor and propose changes to the Report which would accomplish the intended result and lessen the damage to their land. We will renew our request for a continuance at the June 24, 2002 hearing.

Should you have any questions, please contact me at (317) 236-5958.

Very truly yours,

CE MILLER

Tanya D. Marsh

cc:

Mark Howard, Esq. (via facsimile #776-2369)
Stephen L. Valinet, President, Valley Development Co., Inc. and NRC Corp. Zeff A. Weiss, Esq.



June 18, 2002

WRITER'S DIRECT NUMBER: (317) 236-2319 DIRECT FAX: (317) 592-4788 INTERNET: weiss@ice miller.com

VIA FACSIMILE: 776-9628 & CERTIFIED MAIL RETURN RECEIPT REQUESTED

Kenton C. Ward Hamilton County Surveyor One Hamilton County Square Suite 188 Noblesville, IN 46060-2230

RE:

Meridian Suburban Drain

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Dear Mr. Ward:

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In each of the notices you provided to Valley Development and NRC, you failed to assess any damages. However, both NRC and Valley Development believe that they have been damaged as a result of the expansion of the drain and the way the same bisects its respective properties. We would like to have this matter addressed. However, I am unable to attend your proposed meeting date of June 24, 2002. We respectfully request that that hearing be reset so as to allow us to present information and evidence at that hearing.

We appreciate your consideration and rescheduling of this hearing. I will be out of the office during the period of June 20-28, 2002. Otherwise, I will generally be available during July and August.

Please call at once if there is any difficulty in providing the requested continuance.

Very truly yours,

ICE MILLER

Zeff A. Weiss

ZAW/sd

INDY 1008478v1



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DIRECT FAX: (317) 592-4788
INTERNET: welss@ice miller.com

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June 19, 2002

WRITHER'S DIRECT NUMBER: (317) 236-5958
DIRECT FAX: (317) 592-5439
INTERNET: manif@icentiller.com

VIA FACSIMILE & INDY EXPRESS COURIER

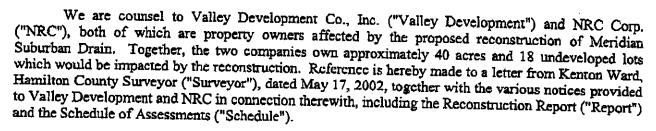
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Robert E. & Carol J. Scott 11015 Tottenham Drive Carmel, IN 46032 # 17-13-02-03-03-004.000

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Robert E. Scott

and

Carol J. Scott

Residents of Meridian Suburban Subdivision

Lot 4

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD IN THE MATTER OF THE Meridian Suburban Subdivision Drain

NOTICE

Notice is hereby given pursuant to Section 405 of the 1965 Indiana Drainage Code that this Board, prior to final adjournment has issued an order adopting the Schedule of Assessments, filed the same and made public announcement thereof at the hearing and ordered publication. If judicial review of the findings and order of the Board is not requested pursuant to Article Eight of this code within twenty (20) days from the date of this publication, the order shall be conclusive.

Hamilton County Drainage Board

Attest: Lynette Mosbaugh

ONE TIME ONLY



June 19, 2002

WRITER'S DIRECT NUMBER: (317) 236-5958 DIRECT FAX: (317) 592-5439 INTERNET: marsh@icemiller.com

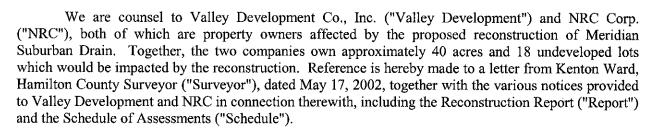
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Stephen L. Valinet, President, Valley Development Co., Inc. and NRC Corp.

Zeff A. Weiss, Esq.

| INDIANAPOLIS, IN 46225 (317) 635-4910 DATE 6-19-02 ICE MILLER ONE AMERICAN SQ. SUITE 3100 INDIANAPOLIS IN 46282 CITY, STATE OF PCS. WEIGHT DECLARED PPD COLL COD AMOUNT DECLARED VALUE DECLARED PPD COLL COD AMOUNT REFERENCE 17718, LC03 | |
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| RUSH SAME NEXT SHUTTLE HOURLY ARTICLES OF LIABILITY DAY DAY OF LIABILITY IS LIMITED TO \$100.00 UNLESS EXCESS VALUE CHARGE IS PAID.* | IONS. |
| MISCELLANEOUS CARRIER CHGS WAITING TIME | |

Meridian Suburban Drain
June 24, 2002 at 9:05 A.M.
Hearing for reconstruction & maintenance.

| City of Carmel will have | | Maint. | Maint.Min. | Recostr. |
|---|------------|--------|------------|----------|
| additional benefit of \$711.00. | Commercial | 75.00 | 75.00 | 1154.00 |
| County Highway will have | Plat | 15.00 | 50.00 | 536.00 |
| additional benefit of \$4,453.00. | Roads | 10.00 | 5.00 | 385.00 |
| County Highway to pay for structure under 111th & | Ag | 5.00 | 15.00 | 385.00 |
| RCP under Liverpool Dr. in the amount of \$23,500.00. | Damages | 0.00 | 0.00 | Zero |

| | | | | | | | | Damages | 0.00 | 0.00 | Zeio |
|-------------|--|--|-------------------------------------|--------------|-------|------------------------------|--------------------------|-----------|---------|-----------|--------|
| | Parcel | Owner | Address | City | State | Zip Description1 | Description 2 | Acres | MntAsmt | RecAsmt | RecPer |
| | 17-13-02-00-00-001.000 | Jec Partnership LP c/o John N. Pittman | 201 W. 106th St. | Indianapolis | s IN | 46290 S2 T17 R3 68.60 Ac | Undeveloped/Agricultural | 3.80 | 19.00 | 1,463.00 | 0.92 |
| | | Fidelity Office Bldg II lp c/o REI Inv. | 11711 N. Pennsylvania St., Ste. 200 | | IN | 46032 S2 T17 R3 8.22 Ac | Commercial | 7.72 | 579.00 | 8,908.88 | 5.59 |
| | | Fidelity Office Building The | 11711 N. Pennsylvania St., Ste. 200 | | IN | 46032 S2 T17 R3 0.80 Ac | Commercial | 0.80 | 75.00 | 923.20 | 0.58 |
| | | Fidelity Office Bldg II lp c/o REI Inv. | 11711 N. Pennsylvania St., Ste. 200 | Carmel | IN | 46032 S2 T17 R3 0.79 Ac | Commercial | 0.79 | 75.00 | 911.66 | 0.57 |
| | | 2 Timarron Capital Group Llc | P.O. Box 796 | Carmel | 1N | 46082 S2 T17 R3 0.84 Ac | Commercial | 0.84 | 75.00 | 969.36 | 0.61 |
| | | Timarron Capital Group Llc | P.O. Box 796 | Carmel | IN | 46082 S2 T17 R3 0.68 Ac | Commercial | 0.68 | 75.00 | 784.72 | 0.49 |
| | | Sepro Development Company II LLC | 11550 N. Meridian St, Ste 600 | Carmel | IN | 46032 S2 T17 R3 8.12 Ac | Commercial | 8.12 | 609.00 | 9,370.48 | 5.88 |
| | | Pridelity Office Bldg II ip c/o REI Inv. | 11711 N. Pennsylvania St., Ste. 200 | Carmel | IN | 46032 S2 T17 R3 1.02 Ac | Commercial | 0.52 | 75.00 | 600.08 | 0.38 |
| | 16-13-02-00-00-003.004 | Scott, Suzanne & Walter TR c/o Magnum Resources | 302 S. 36th St, Ste 800 | Omaha | NE | 68131 S2 T17 R3 2.36 Ac | Commercial | 2.36 | 177.00 | 2,723.44 | 1.71 |
| | 16-13-02-00-00-003.005 | 11460 Meridian St N LLC c/o Blue & Co LLC | 11460 Meridian St N | Carmel | IN | 46032 S2 T17 R3 3.20 Ac | Commercial | 2.85 | 213.76 | 3,288.90 | 2.06 |
| _ | 16-13-02-00-00-004.000 | Scott, Suzanne & Walter TR Charitable Remainder Unitrust | 302 S. 36th St, Ste 800 | Omaha | NE | 68131 S2 T17 R3 4.33 Ac | Commercial | 3.70 | 277.50 | 4,269.80 | 2.68 |
| 7 | 16-13-02-00-00-004.001 | Valley Development Co Inc | 3641 Brumley Way | Camel | IN | 46033 S2 T17 R3 0.17 Ac | Undeveloped/Agricultural | 0.17 | 15.00 | 65.45 | 0.04 |
| × | 16-13-02-00-00-005.000 | Valley Development Co Inc | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 13.71 Ac | Undeveloped/Agricultural | 13.71 | 68.56 | 5,278.35 | 3.31 |
| | 16-13-02-00-00-006.000 | NRC Corp c/o Stephen L Valinet | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 11.07 Ac | Commercial | 11.07 | 830.26 | 12,774.78 | 8.02 |
| | 16-13-02-00-00-007.002 | Three Penn Mark Plaza c/o Colliers Turley Martin Tucker | 2500 One American Square | Indianapolis | IN | 46282 S2 T17 R3 3.83 Ac | Commercial | 3.83 | 287.26 | 4,419.82 | 2.77 |
| | 16-13-02-00-00-007.004 | Penn Mark c/o Angelo, Gordon & Co LP | 245 Park Ave, 26th Fir | New York | NY | 10167 S2 T17 R3 5.09 Ac | Commercial | 5.09 | 381.76 | 5,873.86 | 3.69 |
| | 16-13-02-00-00-007.005 | Capstar Indianapolis Co Lic c/o Deloitte & Touche | P.O. Box 811280 | Chicago | IL | 60681-1280 S2 T17 R3 0.08 Ac | Commercial | 0.08 | 75.00 | 92.32 | 0.06 |
| | 16-13-02-00-00-007.301 | Capstar Indianapolis Co Llc c/o Deloitte & Touche | P.O. Box 811280 | Chicago | ίĹ | 60681-1280 S2 T17 R3 3.90 Ac | Commercial | 3.90 | 292.50 | 4,500.60 | 2.82 |
| | 15-13-02-00-00-023.000 | Valley Development Co Inc c/o Stephen Valinet | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 15.08 Ac | Undeveloped/Agricultural | 6.50 | 32.50 | 2,502.50 | 1.57 |
| ~- | 17-13-02-03-01-001,000 | Noble, Vance A. & Roslyn L. | 127 111th St W | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 27 | One Lot ~ | 50.00 | 536.00 | 0.34 |
| | 17-13-02-03-01-002.000 | Valley Development Co Inc | 3641 Brumley Way | Carmei | ίΝ | 46033 S2 T17 R3 | Meridian Suburban Lot 26 | One Lot - | 50.00 | 536.00 | 0.34 |
| | 17-13-02-03-01-003.000 | Valley Development Co Inc | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 | Meridian Suburban Lot 25 | One Lot | 50.00 | 536.00 | 0.34 |
| \ \/ \/4 | 17-13-02-03-01-004.000 | Valley Development Co Inc | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 | Meridian Suburban Lot 24 | One Lot- | 50.00 | 536.00 | 0.34 |
| | 17-13-02-03-01-005.000 | Valley Development Co Inc | 3641 Brumley Way | Carmel | iN | 46033 S2 T17 R3 | Meridian Suburban Lot 23 | One Lot - | 50.00 | 536.00 | 0.34 |
| _ \}' | 17-13-02-03-01-006.000 | Valley Development Co Inc | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 | Meridian Suburban Lot 22 | One Lot- | 50.00 | 536.00 | 0.34 |
| | | Valley Development Co Inc | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 | Meridian Suburban Lot 21 | One Lot- | 50.00 | 536.00 | 0.34 |
| | | Valley Development Co Inc | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 | Meridian Suburban Lot 20 | One Lot ~ | 50.00 | 536.00 | 0.34 |
| _/\! √4 | 7 12 02 02 04 040 000 | Valley Development Co Inc | 3641 Brumley Way | Carmel | iN | 46033 S2 T17 R3 | Meridian Suburban Lot 19 | One Lot - | 50.00 | 536.00 | 0.34 |
| ^! 1 | 7-13-02-03-01-010.000 | Valley Development Co Inc | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 | Meridian Suburban Lot 18 | One Lot - | 50.00 | 536.00 | 0.34 |
| 1 | 7-13-02-03-02-001.000 | Cox, Eric Stephen & Deborah L. | 107 W. 111th St | | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 28 | One Lot- | 50.00 | 536.00 | 0.34 |
| 1 | 7 13 02 02 02 002 000 | DeCaudin, Jean Pierre Pascal & Jeanine | 59 W. 111th St. | | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 29 | One Lot - | 50.00 | 536.00 | 0.34 |
| | 7-13-02-03-02-003.000 | | 49 W 111th St | | 'IN | 46032 S2 T17 R3 | Meridian Suburban Lot 30 | One Lot- | 50.00 | 536.00 | 0.34 |
| | | Ruden, Susan L. & Jeffery S. Jacob | 39 W. 111th St | | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 31 | One Lot - | 50.00 | 536.00 | 0.34 |
| 1 | 7-13-02-03-02-005.000 | | 31 W. 111th St | | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 32 | One Lot- | 50.00 | 536.00 | 0.34 |
| | 7-13-02-03-02-000.000 : | | 11032 Tottenham Dr | | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 33 | One Lot- | 50.00 | 536.00 | 0.34 |
| 1 | 7 12 02 02 00 000 000 1 | Eichman, Scott W & Diana | 11022 Tottenham Dr | | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 34 | One Lot- | 50.00 | 536.00 | 0.34 |
| 4 | 7-13-02-03-02-006.000 7-13-02-03-02-006.000 | Timmerman, Delbert T. & Wilda G | 40 Mersey Ct. | | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 35 | One Lot - | 50.00 | 536.00 | 0.34 |
| 1 | 7 12 02 02 02 040 000 1 | Thomas, David S. & Kathryn L | 50 Mersey Ct | | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 36 | One Lot- | 50.00 | 536.00 | 0.34 |
| | | York, Walter E. & Georgia Sue | | | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 37 | One Lot | 50.00 | 536.00 | 0.34 |
| ! | 7-13-02-03-02-011.000 | Kosch, Susan W | 51 Mersey Ct | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 38 | One Lot * | 50.00 | 536.00 | 0.34 |
| | | | | | | | | | | | |

| | | | | | | | | | | | r age 2 | 012 |
|------------------------|---|--------------------|--------------|-------|-------|--------------------------|--------------------------|---------|----------|-----------------------|------------------|--------------|
| Parcel | Owner | Address | · City | State | Zip | Description1 | Description 2 | | Acres | MntAsmt | RecAsmt | RecPer |
| 17-13-02-03-02-012.00 | | 41 Mersey Ct | Carmel | IN | 46032 | S2 T17 R3 | Meridian Suburban Lot 3 | 39 | One Lot | - 50.00 | | 0.34 |
| 17-13-02-03-02-013.00 | | 11006 Tottenham Dr | Carmel | IN | 46032 | S2 T17 R3 | Meridian Suburban Lot 4 | 40 | One Lot | - 50.00 | | 0.34 |
| 17-13-02-03-02-014.00 | | 10946 Tottenham Dr | Carmel | IN | 46032 | S2 T17 R3 | Meridian Suburban Lot 4 | 41 | One Lot- | | | 0.34 |
| | 0 Gilliam, Kenneth E. & Martha | 10930 Tottenham Dr | Carmel | IN | 46032 | S2 T17 R3 | Meridian Suburban Lot 4 | 12 | One Lot | | | 0.34 |
| | 0 McWilliams, Kathryn J. Trustee | 10926 Tottenham Dr | Carmel | IN | 46032 | S2 T17 R3 | Meridian Suburban Lot 4 | 43 | One Lot | | | 0.34 |
| | 0 Granger, Susan Cahill | 10916 Tottenham Dr | Carmel | IN | 46032 | S2 T17 R3 | Meridian Suburban Lot 4 | | One Lot | | | 0.34 |
| 17-13-02-03-02-018.00 | 0 Hart, Marjorie & Pamela Trout Jt/Rs | 31 Manchester Ct | Carmel | IN | | S2 T17 R3 | Meridian Suburban Lot 1 | | One Lot- | | | 0.34 |
| 17-13-02-03-02-019.00 | 0 Dearmond, Douglas & Rebecca | 10842 Tottenham Dr | Carmel | IN | | S2 T17 R3 | Meridian Suburban Lot 1 | | One Lot | | | 0.34 |
| 17-13-02-03-02-020.00 | 0 Nickel, John C & Marjorie | 43 Manchester Ct | Carmei | IN | 46032 | S2 T17 R3 | Meridian Suburban Lot 1 | | One Lot | | 536.00 | 0.34 |
| | 0 Gassman, Dean & Gloria | 53 Manchester Ct | Carmel | IN | | S2 T17 R3 | Meridian Suburban Lot 1 | | One Lot | | 536.00 | 0.34 |
| 17-13-02-03-02-022.00 | 0 Causey, Kevin Allen & Julienne | 52 Manchester Ct | Carmel | IN | | S2 T17 R3 | Meridian Suburban Lot 4 | | One Lot | | 536.00 | 0.34 |
| 17-13-02-03-02-023.00 | 0 Valley Development Co Inc | 3641 Brumley Way | Carmel | IN | | S2 T17 R3 | Meridian Suburban Lot 1 | | One Lot | | 536.00 | 0.34 |
| | 0 Valley Development Co Inc | 3641 Brumley Way | Carmel | IN | | S2 T17 R3 | Meridian Suburban Lot 4 | | One Lot- | 50.00 | 536.00 | 0.34 |
| 17-13-02-03-02-025.00 | 0 Valley Development Co Inc | 3641 Brumley Way | Carmel | IN | | S2 T17 R3 | Meridian Suburban Lot 4 | | One Lot | | 536.00 536.00 | 0.34 |
| | 0 Valley Development Co Inc | 3641 Brumley Way | Carmel | IN | | S2 T17 R3 | Meridian Suburban Lot 4 | - | One Lot- | | 536.00 | 0.34 |
| 17-13-02-03-02-027.00 | 0 Alley, Eleanor | 42 Manchester Ct | Carmel | !N | | S2 T17 R3 | Meridian Suburban Lot 4 | _ | One Lot- | | | 0.34 |
| | 0 Valley Development Co Inc | 3641 Brumley Way | Carmel | IN | | S2 T17 R3 | Meridian Suburban Lot 5 | | One Lot | | 536.00 536.00 | 0.34 |
| 17-13-02-03-02-029.00 | 0 Valley Development Co Inc | 3641 Brumley Way | Carmel | iN | | S2 T17 R3 | Meridian Suburban Lot 5 | | One Lot | | | |
| 17-13-02-03-02-030.00 | O Valley Development Co Inc | 3641 Brumley Way | Carmel | IN | | S2 T17 R3 | Meridian Suburban Lot 5 | | One Lot- | | 536.00 536.00 | 0.34 |
| | 0 Valley Development Co Inc | 3641 Brumley Way | Carmel | iN | | S2 T17 R3 | Meridian Suburban Lot 5 | | One Lot- | | | 0.34 |
| | O Valley Development Co Inc | 3641 Brumley Way | Carmel | IN | | S2 T17 R3 | Meridian Suburban Lot 5 | _ | One Lot | | 536.00 | 0.34 |
| | O Valley Development Co Inc | 3641 Brumley Way | Carmel | IN | | S2 T17 R3 | Meridian Suburban Lot 5 | - | One Lot | 50.00 | 536.00 | 0.34 |
| 17-13-02-03-02-034.006 | Valley Development Co Inc | 3641 Brumley Way | Carmel | iN · | | S2 T17 R3 | Meridian Suburban Lot 5 | | One Lot | | 536.00 | 0.34 0.34 |
| 17-13-02-03-02-035.000 | Valley Development Co Inc | 3641 Brumley Way | Carmel | IN | | S2 T17 R3 | Meridian Suburban Lot 5 | _ | One Lot | | 536.00 | |
| | O Schleicher, Earl H. I & Julia | 11 W. 111th St | Carmel | IN | | S2 T17 R3 | Meridian Suburban Lot 1 | | One Lot | 50.00 | 536.00 536.00 | 0.34 0.34 |
| 17-13-02-03-03-002.000 | | 11035 Tottenham Dr | Carmel | iN | | S2 T17 R3 | Meridian Suburban Lot 2 | | One Lot- | 50.00 | 536.00 | 0.34 |
| | Chambers, Charles & Adrienne | 11025 Tottenham Dr | Carmel | IN | | S2 T17 R3 | Meridian Suburban Lot 3 | | One Lot | 50.00 | | 0.34 |
| |) Scott, Robert E. & Carol J | 11015 Tottenham Dr | Carmel | IN | | S2 T17 R3 | Meridian Suburban Lot 4 | | One Lot- | 50.00 | 536.00 536.00 | 0.34 |
| 17-13-02-03-03-005.000 | Yang, Tongchee Y. & Pang Vang | 11005 Tottenham Dr | Carmel | IN | | S2 T17 R3 | Meridian Suburban Lot 5 | | One Lot- | 50.00 | 536.00 | 0.34 |
| 17-13-02-03-03-006.000 | | 4251 Twilight Dr | Indianapolis | | | S2 T17 R3 | Meridian Suburban Lot 6 | | One Lot- | | 536.00 | 0.34 |
| 17-13-02-03-03-007.000 |) Bickers, Wesley H. Sr & Carlene | 10941 Tottenham Dr | Carmel | IN | | S2 T17 R3 | Meridian Suburban Lot 7 | | One Lot | 50.00 | 536.00 | 0.34 |
| 17-13-02-03-03-008.000 | Owens, Michael E. & Sherry | 3804 Lafayette Rd | Indianapolis | | | S2 T17 R3 | Meridian Suburban Lot 8 | | One Lot | 50.00 | 536.00 | 0.34 |
| 17-13-02-03-03-009.000 | St. John, Joshua D. & Myah A. Barnes JT | 10921 Tottenham Dr | Carmel | IN | | S2 T17 R3 | Meridian Suburban Lot 9 | | One Lot | 50.00 | 536.00 | 0.34 |
| 17-13-02-03-03-010.000 | Courtney, June | 10911 Tottenham Dr | Carmel | IN | | S2 T17 R3 | Meridian Suburban Lot 10 | | One Lot | 50.00 | 536.00 | 0.34 |
| 17-13-02-03-03-011.000 | Paris, Anthony & Jeannette | 10901 Tottenham Dr | Carmel | IN | | S2 T17 R3 | Meridian Suburban Lot 1: | _ | One Lot- | 50.00 | 536.00 | |
| 17-13-02-03-03-012.000 | Mulrey, John T. Sr & JoAnn | 10845 Tottenham Dr | Carmel | IN | | S2 T17 R3 | Meridian Suburban Lot 12 | • | One Lot- | 50.00 | | 0.34 0.34 |
| 99-99-99-99-999.001 | Hamilton County Highway Dept. | 1700 S. 10th St. | Noblesville | | | Humber Ct, Manchester Ct | | | 11.04 | | 536.00 | |
| 99-99-99-99-999.002 | Indiana Dept. of Transportation | 32 S. Broadway St. | Greenfield | IN | | S2 T17 R3 | U.S. 31 | isey Ct | 57.24 | | | 20.21 |
| 99-99-99-99-999.005 | City of Carmel, Clerk Treasurer | One Civic Square | Carmel | IN | | S2 T17 R3 | Penn & 111th | | | 572.40 | 22,037.40 | 13.83 |
| | | | - | 1 | 70002 | 02 117 NO | I CHILOX I LIGH | A 0500: | 10.71 | 107.10 | 4,834.35 | 3.03 |
| | | | | | | | | Acres: | | 7,873.00 ₩^ | 159,348.35 | 100.00 |
| | • | | | | | | - | ← Lots: | 57 | A | R | |

= 212.52

Meridian Suburban Drain
June 24, 2002 at 9:05 A.M.
Hearing for reconstruction & maintenance.

| City of Carmel will have | | Maint. | Maint.Min. | Recnstr. |
|---|------------|--------|------------|----------|
| additional benefit of \$711.00. | Commercial | 75.00 | 75.00 | 1154.00 |
| County Highway will have | Plat | 15.00 | 50.00 | 536.00 |
| additional benefit of \$4,453.00. | Roads | 10.00 | 5.00 | 385.00 |
| County Highway to pay for structure under 111th & | Ag | 5.00 | 15.00 | 385.00 |
| RCP under Liverpool Dr. in the amount of \$23,500.00. | Damages | 0.00 | 0.00 | Zero |

| | | | | reor and Evolpoor Dr. In the amount | . 01 420,000.00. | Damages | 0.00 | 0.00 | 2010 |
|--|-------------------------------------|-------------------------------|-------|-------------------------------------|--------------------------|---------|---------|----------|--------|
| Parcel Owner | Address | City | State | Zip Description1 | Description 2 | Ac. Ben | MntAsmt | RecAsmt | RecPer |
| 17-13-02-00-00-001 000 Jec Partnership LP c/o John N. Pittman | 201 W. 106th St. | Indianapolis | IN | 46290 S2 T17 R3 68.60 Ac | Undeveloped/Agricultural | 3.80 | 19.00 | 1,463.00 | 0.97 |
| 16-13-02-00-00-002.001 Fidelity Office Bldg II lp c/o REI Inv. | 11711 N. Pennsylvania St., Ste. 200 | Carmel | IN | 46032 S2 T17 R3 8.22 Ac | Commercial | 7.72 | 579.00 | 8,908.88 | 5.91 |
| 16-13-02-00-00-002.101 Fidelity Office Building The | 11711 N. Pennsylvania St., Ste. 200 | | iN | 46032 S2 T17 R3 0.80 Ac | Commercial | 0.80 | 75.00 | 923.20 | 0.61 |
| 16-13-02-00-00-002.111 Fidelity Office Bldg II lp c/o REI Inv. | 11711 N. Pennsylvania St., Ste. 200 | 1 (427) 271 Strate Strate Co. | IN | 46032 S2 T17 R3 0.79 Ac | Commercial | 0.79 | 75.00 | 911.66 | 0.60 |
| 16-13-02-00-00-002.112 Timarron Capital Group Ltc | P.O. Box 796 | Carmel | IN | 46082 S2 T17 R3 0.84 Ac | Commercial | 0.84 | 75.00 | 969.36 | 0.64 |
| 16-13-02-00-00-002.121 Timarron Capital Group Llc | P.O. Box 796 | Carmei | IN | 46082 S2 T17 R3 0.68 Ac | Commercial | 0.68 | 75.00 | 784.72 | 0.52 |
| 16-13-02-00-003.001 Sepro Development Company II LLC | 11550 N. Meridian St. Ste 600 | Carmel | IN | 46032 S2 T17 R3 8.12 Ac | Commercial | 8.12 | 609.00 | 9,370.48 | 6,21 |
| 16-13-02-00-00-003.002 Fidelity Office Bldg II lp c/o REI Inv. | 11711 N. Pennsylvania St., Ste. 200 | Carmel | IN | 46032 S2 T17 R3 1.02 Ac | Commercial | 0.52 | 75.00 | 600.08 | 0.40 |
| 16-13-02-00-00-003.004 Scott, Suzanne & Walter TR c/o Magnum Resou | ırc302 S. 36th St, Ste 800 | Omaha | NE | 68131 S2 T17 R3 2.36 Ac | Commercial | 2.36 | 177.00 | 2,723.44 | 1.81 |
| 16-13-02-00-00-003.005 11460 Meridian St N LLC c/o Blue & Co LLC | 11460 Meridian St N | Carmel | IN | 46032 S2 T17 R3 3.20 Ac | Commercial | 2.85 | 213.76 | 3.288.90 | 2.18 |
| 16-13-02-00-00-004.000 Scott, Suzanne & Walter TR Charitable Remain | le 302 S. 36th St, Ste 800 | Omaha | NE | 68131 S2 T17 R3 4.33 Ac | Commercial | 3.70 | 277.50 | 4,269.80 | 2.83 |
| ∠16-13-02-00-004.001 Valley Development Co Inc. | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 0.17 Ac | Undeveloped/Agricultural | 0.17 | 15.00 | 65.45 | 0.04 |
| >16-13-02-00-005:000 Valley Development €o Inc | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 13.71 Ac | Undeveloped/Agricultural | 13.71 | 68.56 | 5,278.35 | 3.50 |
| 16-13-02-00-006.000 NRC Corp c/o Stephen L Valinet | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 11.07 Ac | Undeveloped/Agricultural | 11.07 | 55.36 | 4,261.95 | 2.83 |
| 16-13-02-00-00-007.002 Three Penn Mark Plaza c/o Colliers Turley Mart | n 2500 One American Square | Indianapolis | IN | 46282 S2 T17 R3 3.83 Ac | Commercial | 3.83 | 287.26 | 4,419.82 | 2.93 |
| 16-13-02-00-00-007.004 Penn Mark c/o Angelo, Gordon & Co LP | 245 Park Ave, 26th Fir | New York | NY | 10167 S2 T17 R3 5.09 Ac | Commercial | 5.09 | 381.76 | 5,873.86 | 3.89 |
| 16-13-02-00-00-007.005 Capstar Indianapolis Co Llc c/o Deloitte & Touch | ie P.O. Box 811280 | Chicago | IL. | 60681-128052 T17 R3 0.08 Ac | Commercial | 0.08 | 75.00 | 92.32 | 0.06 |
| 16-13-02-00-00-007.301 Capstar Indianapolis Co Llc c/o Deloitte & Touche | P.O. Box 811280 | Chicago | | 60681-1280 S2 T17 R3 3.90 Ac | Commercial | 3.90 | 292.50 | 4,500.60 | 2.98 |
| ★16-13-02-00-00-023.000 Valley Development Co Inc c/o Stephen Valinet | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 15.08 Ac | Undeveloped/Agricultural | 6.50 | 32.50 | 2,502.50 | 1.66 |
| 17-13-02-03-01-001.000 Noble, Vance A. & Roslyn L. | 127 111th St W | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 27 | One Lot | 50.00 | 536.00 | 0.36 |
| ∠17-13-02-03-01-002.000 Valley Development Co Inc | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 | Meridian Suburban Lot 26 | One Lot | 50.00 | 536.00 | 0.36 |
| >17-13-02-03-01-003.000 Valley Development Co Inc | 3641 Brumley Way | Carmel | IN | 46033 \$2 T17 R3 | Meridian Suburban Lot 25 | One Lot | 50.00 | 536.00 | 0.36 |
| ≿17-13-02-03-01-004.000 Valley Development Co Inc | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 | Meridian Suburban Lot 24 | One Lot | 50.00 | 536.00 | 0.36 |
| ∠17-13-02-03-01-005.000 Valley Development Co Inc | 3641 Brumley Way | Carmel | ΙÑ | 46033 S2 T17 R3 | Meridian Suburban Lot 23 | One Lot | 50.00 | 536.00 | 0.36 |
| L17-13-02-03-01-006.000 Valley Development Co Inc | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 | Meridian Suburban Lot 22 | One Lot | 50.00 | 536.00 | 0.36 |
| 17-13-02-03-01-007.000 Valley Development Co Inc | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 | Meridian Suburban Lot 21 | One Lot | 50.00 | 536.00 | 0.36 |
| 7-13-02-03-01-008.000 Valley Development Co Inc | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 | Meridian Suburban Lot 20 | One Lot | 50.00 | 536.00 | 0.36 |
| \$47-13-02-03-01-009.000 Valley Development Co Inc | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 | Meridian Suburban Lot 19 | One Lot | 50.00 | 536.00 | 0.36 |
| 47-13-02-03-01-010.000 Valley Development Co Inc | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 | Meridian Suburban Lot 18 | One Lot | 50.00 | 536.00 | 0.36 |
| 17-13-02-03-02-001.000 Cox, Eric Stephen & Deborah L. | 107 W. 111th St | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 28 | One Lot | 50.00 | 536.00 | 0.36 |
| 17-13-02-03-02-002.000 DeCaudin, Jean Pierre Pascal & Jeanine | 59 W. 111th St. | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 29 | One Lot | 50.00 | 536.00 | 0.36 |
| 17-13-02-03-02-003.000 Jones, Cathy Corbitt | 49 W 111th St | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 30 | One Lot | 50.00 | 536.00 | 0.36 |
| 17-13-02-03-02-004:000 Ruden, Susan L. & Jeffery S. Jacob | 39 W. 111th St | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 31 | One Lot | 50.00 | 536.00 | 0.36 |
| 17-13-02-03-02-005.000 Conklin, Philip 1/2 & Philip L. Conklin Lvg | 31 W. 111th St | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 32 | One Lot | 50.00 | 536.00 | 0.36 |
| 17-13-02-03-02-006.000 Brehm, John E. & Rhonda Ann | 11032 Tottenham Dr | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 33 | One Lot | 50.00 | 536.00 | 0.36 |
| ≿ 17-13-02-03-02-007.000 Eichman, Scott W & Diana | 11022 Tottenham Dr | | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 34 | One Lot | 50.00 | 536.00 | 0.36 |
| 17-13-02-03-02-008.000 Timmerman, Delbert T. & Wilda G | 40 Mersey Ct. | | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 35 | One Lot | 50.00 | 536.00 | 0.36 |
| 17-13-02-03-02-009.000 Thomas, David S. & Kathryn L | 50 Mersey Ct | | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 36 | One Lot | 50.00 | 536.00 | 0.36 |
| 17-13-02-03-02-010.000 York, Watter E. & Georgia Sue | 58 Mersey Ct | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 37 | One Lot | 50.00 | 536.00 | 0.36 |
| 17-13-02-03-02-011.000 Kosch, Susan W | 51 Mersey Ct | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 38 | One Lot | 50.00 | 536.00 | 0.36 |

| Parcel Owner Address City State Zip Description1 Description2 Acres Mirkamt RecPart 17-13-02-03-02-012:000 Debeting, August A 41 Mersey Ct Carmel IN 46032 \$2717 R3 Meridian Suburban Lot 49 One Lot 50.00 536.00 0.36 17-13-02-03-02-013:000 Airgood, Louis 11006 Tottenham Dr Carmel IN 46032 \$2717 R3 Meridian Suburban Lot 40 One Lot 50.00 536.00 0.36 17-13-02-03-02-015:000 Gilliam (kenneth E. & Martha 10930 Tottenham Dr Carmel IN 46032 \$2717 R3 Meridian Suburban Lot 42 One Lot 50.00 536.00 0.36 17-13-02-03-02-015:000 Gilliam (kenneth E. & Martha 10930 Tottenham Dr Carmel IN 46032 \$2717 R3 Meridian Suburban Lot 42 One Lot 50.00 536.00 0.36 17-13-02-03-02-015:000 Gilliam (kenneth E. & Martha 10930 Tottenham Dr Carmel IN 46032 \$2717 R3 Meridian Suburban Lot 42 One Lot 50.00 536.00 0.36 17-13-02-03-02-015:000 Gilliam (kenneth E. & Martha 10936 Tottenham Dr Carmel IN 46032 \$2717 R3 Meridian Suburban Lot 44 One Lot 50.00 536.00 0.36 17-13-02-03-02-015:000 Dearmond, Douglas & Rebecca 10842 Tottenham Dr Carmel IN 46032 \$2717 R3 Meridian Suburban Lot 13 One Lot 50.00 536.00 0.36 17-13-02-03-02-015:000 Dearmond, Douglas & Rebecca 10842 Tottenham Dr Carmel IN 46032 \$2717 R3 Meridian Suburban Lot 13 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-02-000 Observation Color 43 Manchester Ct Carmel IN 46032 \$2717 R3 Meridian Suburban Lot 15 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-02-000 Observation Color 341 Brumley Way Carmel IN 46032 \$2717 R3 Meridian Suburban Lot 16 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-02-000 Observation Color 341 Brumley Way Carmel IN 46032 \$2717 R3 Meridian Suburban Lot 16 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-02-000 Observation Color 341 Brumley Way Carmel IN 46033 \$2717 R3 Meridian Suburban Lot 45 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-02-00-02-02-02-02-00-02-02-02-02- |
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| 17-13-92-03-02-013-000 Airgood, Louis 11006 Tottenham Dr Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 40 One Lot 50.00 536.00 0.36 17-13-02-03-02-015-000 Gilliam, Kenneth E. & Marcha 10300 Tottenham Dr Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 42 One Lot 50.00 536.00 0.36 17-13-02-03-02-015-000 Gilliam, Kenneth E. & Marcha 10300 Tottenham Dr Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 42 One Lot 50.00 536.00 0.36 17-13-02-03-02-015-000 Gilliam, Kenneth E. & Marcha In 1030 Tottenham Dr Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 43 One Lot 50.00 536.00 0.36 17-13-02-03-02-017-000 Granger, Susan Cahill 10916 Tottenham Dr Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 44 One Lot 50.00 536.00 0.36 17-13-02-03-03-02-019-000 Dearmord, Douglas & Rebecca 10842 Tottenham Dr Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 14 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-000 Dearmord, Douglas & Rebecca 10842 Tottenham Dr Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 14 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-000 One Sasman, Dean & Gloria 53 Manchester Ct Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 15 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-000 One Sasman, Dean & Gloria 53 Manchester Ct Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 15 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-000 Occases, Kevin Allen & Julienne 52 Manchester Ct Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 15 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-000 Occases, Kevin Allen & Julienne 52 Manchester Ct Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 16 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-000 Occases, Kevin Allen & Julienne 52 Manchester Ct Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 46 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-02-000 Occases, Kevin Allen & Julienne 52 Manchester Ct Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 46 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-02-000 Occases, Kevin Allen & Julienne 52 Manchester Ct Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 45 One Lot 50.00 536.00 0.36 |
| 17-13-02-03-02-015 000 Schafer, Cindy M. 17-13-02-03-02-015 000 Schafer, Cindy M. 17-13-02-03-02-015 000 Gillam, Kenneth E. & Martha 10930 Totlenham Dr Carmel 1N 46032 S2 T17 R3 Meridian Suburban Lot 42 One Lot 50.00 536.00 0.36 17-13-02-03-02-015 000 McWilliams, Kathryn J. Trustee 1092e Totlenham Dr Carmel 1N 46032 S2 T17 R3 Meridian Suburban Lot 43 One Lot 50.00 536.00 0.36 17-13-02-03-02-017.000 Granger, Susan Cahill 1091e Totlenham Dr Carmel 1N 46032 S2 T17 R3 Meridian Suburban Lot 44 One Lot 50.00 536.00 0.36 17-13-02-03-02-019.000 Hart, Majorice & Parmelai Trout JVRS 117-13-02-03-02-019.000 Dearmond, Douglas & Rebecca 10942 Totlenham Dr Carmel 1N 46032 S2 T17 R3 Meridian Suburban Lot 44 One Lot 50.00 536.00 0.36 17-13-02-03-02-019.000 Nickel, John Ca Marjorice 4 Majorice 1N 46032 S2 T17 R3 Meridian Suburban Lot 44 One Lot 50.00 536.00 0.36 17-13-02-03-02-019.000 Nickel, John Ca Marjorice 1N 46032 S2 T17 R3 Meridian Suburban Lot 14 One Lot 50.00 536.00 0.36 17-13-02-03-02-019.000 Gassman, Dean & Gloria 17-13-02-03-02-0210.000 Gassman, Dean & Gloria 17-13-02-03-02-0210.000 Gassman, Dean & Gloria 17-13-02-03-02-0210.000 Gassman, Dean & Gloria 17-13-02-03-02-022.000 Valley Development Co Inc 3641 Brumley Way Carmel 1N 46033 S2 T17 R3 Meridian Suburban Lot 16 One Lot 50.00 536.00 0.36 17-13-02-03-02-022.000 Valley Development Co Inc 3641 Brumley Way Carmel 1N 46033 S2 T17 R3 Meridian Suburban Lot 47 One Lot 50.00 536.00 0.36 17-13-02-03-02-020.000 Valley Development Co Inc 3641 Brumley Way Carmel 1N 46033 S2 T17 R3 Meridian Suburban Lot 47 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-02-000 Valley Development Co Inc 3641 Brumley Way Carmel 1N 46033 S2 T17 R3 Meridian Suburban Lot 47 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-02-000 Valley Development Co Inc 3641 Brumley Way Carmel 1N 46033 S2 T17 R3 Meridian Suburban Lot 47 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-02-000 Valley Development Co Inc 3641 Brumley Way Carmel 1N 46033 S2 T17 R3 Meridian Suburban Lot 45 One Lot 50.00 536.00 0.36 17-13-02-03-02-02- |
| 17-13-02-03-02-015.000 Gilliam, Kenneth E. & Martha 10930 Tottenham Dr Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 42 One Lot 50.00 536.00 0.36 17-13-02-03-02-010.000 McM/Milliams, Kathryn J. Trustee 10926 Tottenham Dr Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 44 One Lot 50.00 536.00 0.36 17-13-02-03-02-010.000 Dearmord, Douglas & Rebecca 10926 Tottenham Dr Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 44 One Lot 50.00 536.00 0.36 17-13-02-03-02-019.000 Dearmord, Douglas & Rebecca 10942 Tottenham Dr Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 13 Orise Lot 56.00 536.00 0.36 17-13-02-03-02-019.000 Dearmord, Douglas & Rebecca 10942 Tottenham Dr Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 14 One Lot 50.00 536.00 0.36 17-13-02-03-02-021.000 Oasseyn, Kevin Allen & Suburban Lot 15 Orice Lot 50.00 536.00 0.36 17-13-02-03-02-021.000 Gassman, Dean & Gloria 17-13-02-03-02-021.000 Causey, Kevin Allen & Suburban Lot 15 Orice Lot 50.00 536.00 0.36 17-13-02-03-02-021.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 16 One Lot 50.00 536.00 0.36 17-13-02-03-02-021.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 17 One Lot 50.00 536.00 0.36 17-13-02-03-02-025.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 17 One Lot 50.00 536.00 0.36 17-13-02-03-02-025.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 47 One Lot 50.00 536.00 0.36 17-13-02-03-02-025.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 49 One Lot 50.00 536.00 0.36 17-13-02-03-02-025.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 49 One Lot 50.00 536.00 0.36 17-13-02-03-02-025.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 50 One Lot 50.00 536.00 0.36 17-13-02-03-02-0210.0000 Valley Development Co Inc 3641 Brumley Way Carmel IN |
| 17-13-02-03-02-07-10 Of Granger Susan Cahill 17-13-02-03-02-07-10 Of Granger Susan Cahill 1096 Tottenham Dr Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 43 One Lot 50.00 536.00 0.36 17-13-02-03-02-07-10 Of Granger Susan Cahill 10916 Tottenham Dr Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 14 One Lot 50.00 536.00 0.36 17-13-02-03-02-07-10 One Dearmond, Douglas & Rebecca 10842 Tottenham Dr Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 14 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-00 Off lickel, John C & Marjorie & 194.00 Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 15 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-00 Off lickel, John C & Marjorie & 45 Manchester C Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 16 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-10 Off California Allen Associated C Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 16 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-02-10 Off California Allen Associated C Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 16 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-03-00 O Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 47 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-05-00 O Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 47 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-05-00 O Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 47 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-05-00 O Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 48 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-05-00 O Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 49 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-03-00 O Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 50 One Lot 50.00 536.00 0.36 17-13-02-03-02-03-00 O Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 50 One Lot 50.00 536.00 0.36 17 |
| 17-13-02-03-02-017.000 Granger, Susan Cahill 10916 Tottenham Dr Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 44 One Lot 50.00 536.00 0.36 17-13-02-03-02-018.000 Hart, Marjorie & Parnelia Trout Jt/Rs 31 Mainchester Ct Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 13 One Lot 50.00 536.00 0.36 17-13-02-03-02-008.000 Nickel, John C & Marjorie 43 Manchester Ct Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 15 One Lot 50.00 536.00 0.36 17-13-02-03-02-020.000 ON Sassman, Dean & Gloria 53 Manchester Ct Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 15 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-020.000 Causey, Kevin Allen & Julienne 52 Manchester Ct Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 16 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-02-000 Causey, Kevin Allen & Julienne 52 Manchester Ct Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 17 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-02-000 Causey, Kevin Allen & Julienne 52 Manchester Ct Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 17 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-02-000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 17 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-02-000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 48 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-02-000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 49 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-02-000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 49 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-02-000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 45 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-02-000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 50 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-030 000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 55 One Lot 50.00 536.00 0 |
| 17-13-02-03-02-02-018-000 Hart, Marjorie & Parnela Trout JVRs 17-13-02-03-02-019-000 Dearmond, Douglas & Rebecca 10842 Tottenham Dr Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 14 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-00 000 Nickel, John C & Marjorie 43 Manchester Ct Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 15 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-01-000 Gassman, Dean & Gloria 17-13-02-03-02-02-02-000 Causey, Kevin Allen & Julienne 53 Manchester Ct Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 16 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-02-000 Causey, Kevin Allen & Julienne 54 Manchester Ct Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 16 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-02-000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 47 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-02-000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 47 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-03-000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 47 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-050 000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 48 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-02-000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 48 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-02-000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 45 One Lot 50.00 536.00 0.36 17-13-02-03-02-02-03-000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 50 One Lot 50.00 536.00 0.36 17-13-02-03-02-03-03-000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 51 One Lot 50.00 536.00 0.36 17-13-02-03-02-03-03-000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 54 One Lot 50.00 536.00 0.36 17-13-02-03-02-03-03-000 Valley Develo |
| 17-13-02-03-02-020.000 Nickel, John C & Marjorie |
| 17-13-02-03-02-020,000 Nicket, John C & Marjorie 43 Manchester Ct Carmel IN 46032 \$2.717 R3 Meridian Suburban Lot 15 One Lot 50.00 536.00 0.36 17-13-02-03-02-021.000 Gassman, Dean & Gloria 53 Manchester Ct Carmel IN 46032 \$2.717 R3 Meridian Suburban Lot 16 One Lot 50.00 536.00 0.36 17-13-02-03-02-022.000 Causey, Kevin Allien & Julienne 52 Manchester Ct Carmel IN 46032 \$2.717 R3 Meridian Suburban Lot 16 One Lot 50.00 536.00 0.36 17-13-02-03-02-023.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 \$2.717 R3 Meridian Suburban Lot 17 One Lot 50.00 536.00 0.36 17-13-02-03-02-024.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 \$2.717 R3 Meridian Suburban Lot 47 One Lot 50.00 536.00 0.36 17-13-02-03-02-025.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 \$2.717 R3 Meridian Suburban Lot 47 One Lot 50.00 536.00 0.36 17-13-02-03-02-025.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 \$2.717 R3 Meridian Suburban Lot 49 One Lot 50.00 536.00 0.36 17-13-02-03-02-027.000 Alley Development Co Inc 3641 Brumley Way Carmel IN 46033 \$2.717 R3 Meridian Suburban Lot 49 One Lot 50.00 536.00 0.36 17-13-02-03-02-027.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 \$2.717 R3 Meridian Suburban Lot 45 One Lot 50.00 536.00 0.36 17-13-02-03-02-027.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 \$2.717 R3 Meridian Suburban Lot 50 One Lot 50.00 536.00 0.36 17-13-02-03-02-030.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 \$2.717 R3 Meridian Suburban Lot 51 One Lot 50.00 536.00 0.36 17-13-02-03-02-030.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 \$2.717 R3 Meridian Suburban Lot 52 One Lot 50.00 536.00 0.36 17-13-02-03-02-030.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 \$2.717 R3 Meridian Suburban Lot 54 One Lot 50.00 536.00 0.36 17-13-02-03-02-030.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 \$2.717 R3 Meridian Suburban Lot 55 One Lot 50.00 536.00 0.36 17-13-02-03-02-030.000 Valley Development |
| 17-13-02-03-02-021.000 Casseran, Dean & Gloria 53 Manchester Ct Carmel IN 46032 \$2 T17 R3 Meridian Suburban Lot 16 One Lot 50.00 536.00 0.36 (17-13-02-03-02-022.000 Causey, Kevin Allen & Julienne 52 Manchester Ct Carmel IN 46033 \$2 T17 R3 Meridian Suburban Lot 47 One Lot 50.00 536.00 0.36 (17-13-02-03-02-024.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 \$2 T17 R3 Meridian Suburban Lot 47 One Lot 50.00 536.00 0.36 (17-13-02-03-02-024.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 \$2 T17 R3 Meridian Suburban Lot 47 One Lot 50.00 536.00 0.36 (17-13-02-03-02-025.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 \$2 T17 R3 Meridian Suburban Lot 48 One Lot 50.00 536.00 0.36 (17-13-02-03-02-025.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 \$2 T17 R3 Meridian Suburban Lot 49 One Lot 50.00 536.00 0.36 (17-13-02-03-02-025.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46032 \$2 T17 R3 Meridian Suburban Lot 49 One Lot 50.00 536.00 0.36 (17-13-02-03-02-025.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46032 \$2 T17 R3 Meridian Suburban Lot 50 One Lot 50.00 536.00 0.36 (17-13-02-03-02-025.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 \$2 T17 R3 Meridian Suburban Lot 50 One Lot 50.00 536.00 0.36 (17-13-02-03-02-025.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 \$2 T17 R3 Meridian Suburban Lot 51 One Lot 50.00 536.00 0.36 (17-13-02-03-02-03-000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 \$2 T17 R3 Meridian Suburban Lot 52 One Lot 50.00 536.00 0.36 (17-13-02-03-02-03-000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 \$2 T17 R3 Meridian Suburban Lot 55 One Lot 50.00 536.00 0.36 (17-13-02-03-02-03-000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 \$2 T17 R3 Meridian Suburban Lot 55 One Lot 50.00 536.00 0.36 (17-13-02-03-02-03-000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 \$2 T17 R3 Meridian Suburban Lot 55 One Lot 50.00 536.00 0.36 (17-13-02-03-02-03-03-000 Valley |
| 17-13-02-03-02-022 000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 17 One Lot 50.00 536.00 0.36 17-13-02-03-02-024 000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 17 One Lot 50.00 536.00 0.36 17-13-02-03-02-025.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 48 One Lot 50.00 536.00 0.36 17-13-02-03-02-025.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 48 One Lot 50.00 536.00 0.36 17-13-02-03-02-026.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 49 One Lot 50.00 536.00 0.36 17-13-02-03-02-025.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 45 One Lot 50.00 536.00 0.36 17-13-02-03-02-028.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 50 One Lot 50.00 536.00 0.36 17-13-02-03-02-029.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 50 One Lot 50.00 536.00 0.36 17-13-02-03-02-03-000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 50 One Lot 50.00 536.00 0.36 17-13-02-03-02-03-000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 52 One Lot 50.00 536.00 0.36 17-13-02-03-02-03-000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 55 One Lot 50.00 536.00 0.36 17-13-02-03-02-03-000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 55 One Lot 50.00 536.00 0.36 17-13-02-03-02-03-000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 55 One Lot 50.00 536.00 0.36 17-13-02-03-02-03-000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 55 One Lot 50.00 536.00 0.36 17-13-02-03-02-03-000 Valley Development Co Inc 36 |
| X17-13-02-03-02-023.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 17 One Lot 50.00 536.00 0.36 |
| 17-13-02-03-02-024.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 47 One Lot 50.00 536.00 0.36 17-13-02-03-02-025.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 48 One Lot 50.00 536.00 0.36 17-13-02-03-02-026.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 49 One Lot 50.00 536.00 0.36 17-13-02-03-02-027.000 Alley, Eleanor 42 Manchester Ct Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 45 One Lot 50.00 536.00 0.36 17-13-02-03-02-028.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 50 One Lot 50.00 536.00 0.36 17-13-02-03-02-029.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 51 One Lot 50.00 536.00 0.36 17-13-02-03-02-030.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 52 One Lot 50.00 536.00 0.36 17-13-02-03-02-031.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 52 One Lot 50.00 536.00 0.36 17-13-02-03-02-032.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 53 One Lot 50.00 536.00 0.36 17-13-02-03-02-032.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 54 One Lot 50.00 536.00 0.36 17-13-02-03-02-032.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 55 One Lot 50.00 536.00 0.36 17-13-02-03-02-033.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 55 One Lot 50.00 536.00 0.36 17-13-02-03-02-03-000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 56 One Lot 50.00 536.00 0.36 17-13-02-03-03-000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 56 One Lot 50.00 536.00 0.36 17-13-02-03-03-000 Valley Development Co Inc 3641 Brumley Wa |
| 17-13-02-03-02-025.000 Valley Development Co Inc 17-13-02-03-02-026.000 Valley Development Co Inc 17-13-02-03-02-026.000 Valley Development Co Inc 17-13-02-03-02-027.000 Alley, Eleanor 17-13-02-03-02-028.000 Valley Development Co Inc 17-13-02-03-02-028.000 Valley Development Co Inc 17-13-02-03-02-028.000 Valley Development Co Inc 17-13-02-03-02-029.000 Valley Development Co Inc 17-13-02-03-02-030.000 Valley Development Co Inc 17-13-02-03-02-030.000 Valley Development Co Inc 17-13-02-03-02-031.000 Valley Development Co Inc |
| 17-13-02-03-02-026.000 Valley Development Co Inc 17-13-02-03-02-027.000 Alley, Eleanor 42 Manchester Ct Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 49 One Lot 50.00 536.00 0.36 17-13-02-03-02-028.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 50 One Lot 50.00 536.00 0.36 17-13-02-03-02-029.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 50 One Lot 50.00 536.00 0.36 17-13-02-03-02-030.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 52 One Lot 50.00 536.00 0.36 17-13-02-03-02-031.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 52 One Lot 50.00 536.00 0.36 17-13-02-03-02-031.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 53 One Lot 50.00 536.00 0.36 17-13-02-03-02-032.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 54 One Lot 50.00 536.00 0.36 17-13-02-03-02-032.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 55 One Lot 50.00 536.00 0.36 17-13-02-03-02-033.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 55 One Lot 50.00 536.00 0.36 17-13-02-03-02-035.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 55 One Lot 50.00 536.00 0.36 17-13-02-03-02-035.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 57 One Lot 50.00 536.00 0.36 17-13-02-03-03-000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 57 One Lot 50.00 536.00 0.36 17-13-02-03-03-000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 57 One Lot 50.00 536.00 0.36 17-13-02-03-03-000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 57 One Lot 50.00 536.00 0.36 17-13-02-03-03-000 |
| 7-13-02-03-02-027.000 Alley, Eleanor 42 Manchester Ct Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 45 One Lot 50.00 536.00 0.36 A7-13-02-03-02-028.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 50 One Lot 50.00 536.00 0.36 A7-13-02-03-02-030.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 51 One Lot 50.00 536.00 0.36 A7-13-02-03-02-031.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 52 One Lot 50.00 536.00 0.36 A7-13-02-03-02-031.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 53 One Lot 50.00 536.00 0.36 A7-13-02-03-02-032.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 53 One Lot 50.00 536.00 0.36 A7-13-02-03-02-032.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 54 One Lot 50.00 536.00 0.36 A7-13-02-03-02-033.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 55 One Lot 50.00 536.00 0.36 A7-13-02-03-02-034.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 55 One Lot 50.00 536.00 0.36 A7-13-02-03-02-035.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 55 One Lot 50.00 536.00 0.36 A7-13-02-03-02-035.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 55 One Lot 50.00 536.00 0.36 A7-13-02-03-03-000.000 Schleicher, Earl H. I & Julia 11 W. 111th St Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 57 One Lot 50.00 536.00 0.36 A7-13-02-03-03-000.000 Schleicher, Earl H. I & Julia 11 W. 111th St Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 20 One Lot 50.00 536.00 0.36 |
| \(\frac{17-13-02-03-02-029.000}{\frac{17-13-02-03-02-030.000}{\frac{17-13-02-03-02-030.000}{\frac{17-13-02-03-02-030.000}{\frac{17-13-02-03-02-030.000}{\frac{17-13-02-03-02-030.000}{\frac{17-13-02-03-02-031.000}{\frac{17-13-02-03-03-001.000}{\fra |
| \$\frac{17-13-02-03-02-029.000}{ Valley Development Co Inc } 3641 \text{ Brumley Way } Carmel IN \$ 46033 \text{ S2 T17 R3}\$ Meridian Suburban Lot 51 One Lot \$0.00 \$536.00 0.36 \$ |
| \(\frac{17-13-02-03-02-031.000 Valley Development Co Inc}{17-13-02-03-02-032.000 Valley Development Co Inc}{3641 Brumley Way} \text{Carmel} & IN \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |
| 47-13-02-03-02-032.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 54 One Lot 50.00 536.00 0.36 47-13-02-03-02-033.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 55 One Lot 50.00 536.00 0.36 47-13-02-03-02-034.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 56 One Lot 50.00 536.00 0.36 47-13-02-03-02-035.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 56 One Lot 50.00 536.00 0.36 47-13-02-03-03-003-004 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 57 One Lot 50.00 536.00 0.36 17-13-02-03-03-001 000 Schleicher, Earl H. I & Julia 11 W. 111th St Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 57 One Lot 50.00 536.00 0.36 17-13-02-03-03-003-000 000 Re |
| Å7-13-02-03-02-033.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 55 One Lot 50.00 536.00 0.36 \17-13-02-03-02-034.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 56 One Lot 50.00 536.00 0.36 \47-13-02-03-03-002-035.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 57 One Lot 50.00 536.00 0.36 17-13-02-03-03-001.000 Schleicher, Earl H. I & Julia 11 W. 111th St Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 1 One Lot 50.00 536.00 0.36 17-13-02-03-03-002.000 Renschler, John W 11035 Tottenham Dr Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 2 One Lot 50.00 536.00 0.36 |
| \(\frac{17-13-02-03-02-034.000 Valley Development Co Inc.}{27-13-02-03-02-035.000 Valley Development Co Inc.}{3641 Brumley Way.}{17-13-02-03-02-035.000 Valley Development Co Inc.}{18-02-03-02-035.000 Valley Development Co Inc.}{19-02-03-03-001.000 Schleicher, Earl H. I & Julia.}{19-02-03-03-002.000 Renschler, John W.}{19-02-03-03-002.000 Renschler, John W.}{19-02- |
| >17-13-02-03-02-035.000 Valley Development Co Inc 3641 Brumley Way Carmel IN 46033 S2 T17 R3 Meridian Suburban Lot 57 One Lot 50.00 536.00 0.36 17-13-02-03-03-001.000 Schleicher, Earl H. I & Julia 11 W. 111th St Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 1 One Lot 50.00 536.00 0.36 17-13-02-03-03-002.000 Renschler, John W 11035 Tottenham Dr Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 2 One Lot 50.00 536.00 0.36 |
| 17-13-02-03-03-001.000 Schleicher, Earl H. I. & Julia 11 W. 111th St Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 1 One Lot 50.00 536.00 0.36 17-13-02-03-03-002.000 Renschler, John W 11035 Tottenham Dr Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 2 One Lot 50.00 536.00 0.36 |
| 17-13-02-03-03-002.000 Renschler, John W 11035 Tottenham Dr Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 2 One Lot 50.00 536.00 0.36 |
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| 17:12:00:00:00:00:00:00:00:00:00:00:00:00:00 |
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| ×17-13-02-03-03-004.000 Scott, Robert E. & Carol J 11015 Tottenham Dr Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 4 One Lot 50.00 536.00 0.36 |
| 17-13-02-03-005 000 Yang, Tongchee Y. & Pang Vang 11005 Tottenham Dr Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 5 One Lot 50.00 536,00 0.36 |
| 17-13-02-03-03-006.000 Stickle, Bruce H. 4251 Twilight Dr Indianapolis IN 46254 S2 T17 R3 Meridian Suburban Lot 6 One Lot 50.00 536.00 0.36 |
| 17-13-02-03-03-007.000 Bickers, Wesley H. Sr & Carlene 10941 Tottenham Dr Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 7 One Lot 50.00 536.00 0.36 |
| 17-13-02-03-03-008.000 Owens, Michael E. & Sherry 3804 Lafayette Rd Indianapolis IN 46254 S2 T17 R3 Meridian Suburban Lot 8 One Lot 50.00 536.00 0.36 |
| 17-13-02-03-03-009 000 St. John, Joshua D. & Myah A. Barnes JT 10921 Tottenham Dr Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 9 One Lot 50:00 536:00 0:36 |
| 7-13-02-03-03-010.000 Courtney, June 10911 Tottenham Dr Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 10 One Lot 50.00 536.00 0.36 |
| 17-13-02-03-03-011:000 Paris, Anthony & Jeannette 10901 Tottenham Dr Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 11 One Lot 50:00 536:00 0:36 |
| 17-13-02-03-03-012.000 Mulrey, John T. Sr & JoAnn 10845 Tottenham Dr Carmel IN 46032 S2 T17 R3 Meridian Suburban Lot 12 One Lot 50.00 536.00 0.36 |
| 99-99-99-99-999-901 Hamilton County Highway Dept. 1700 S. 10th St. Noblesville IN 46060 Humber Ct, Manchester Ct Tottenham Dr, Liverpool Dr, Mers 11.04 110.40 32,203.40 21.35 |
| 99-99-99-999 002 Indiana Dept. of Transportation 32 S. Broadway St. Greenfield IN 46140 S2 T17 R3 U.S. 31 57.24 572.40 22,037.40 14.61 |
| 99-99-99-99-999-005 City of Carmel, Clerk Treasurer One Civic Square Carmel IN 46032 S2 T17 R3 Penn & 111th 107.10 4,834.35 3.21 |
| Acres: 155.52 7,098.10 150,835.52 100.00 |

Lots: 57

| | Maint. | Recnstr |
|------------|--------|---------|
| Commercial | 75.00 | 1154.00 |
| Plat | 50.00 | 536.00 |
| Roads | 10.00 | 385.00 |
| Ag | 5.00 | 385.00 |

| | | | | | | | | | Rec | |
|--|--|-------------------------------------|--------------|-------|------------------------------|--------------------------|---------|---------|---------|--------|
| Parcel Dain | Owner | Address | Citv | State | Zip Description1 | Description 2 | Acres | MntAsmt | Assmt. | RecPer |
| 17-13-02-00-00-001.000 Meridian Suburban | Jec Partnership LP c/o John N. Pittman | 201 W. 106th St. | Indianapolis | IN. | 46290 S2 T17 R3 68.60 Ac | Undeveloped/Agricultural | 3.80 | 285.00 | 1463.00 | 0.97 |
| 16-13-02-00-00-002.001 Meridian Suburban | Fidelity Office Bidg II Ip c/o REI Inv. | 11711 N. Pennsylvania St., Ste. 200 | Carmel | IN | 46032 S2 T17 R3 8.22 Ac | Commercial | 7.72 | 579.00 | 8908.88 | 5.91 |
| 16-13-02-00-00-002.101 Meridian Suburban | Fidelity Office Building The | 11711 N. Pennsylvania St., Ste. 200 | Carmel | IN | 46032 S2 T17 R3 0.80 Ac | Commercial | 0.80 | 75.00 | 923.20 | 0.61 |
| 16-13-02-00-00-002.111 Meridian Suburban | Fidelity Office Bldg II lp c/o REI Inv. | 11711 N. Pennsylvania St., Ste. 200 | Carmel | IN | 46032 S2 T17 R3 0.79 Ac | Commercial | 0.79 | 75.00 | 911.66 | 0.60 |
| 16-13-02-00-00-002.112 Meridian Suburban | Timarron Capital Group Llc | P.O. Box 796 | Carmel | IN | 46082 S2 T17 R3 0.84 Ac | Commercial | 0.84 | 75.00 | 969.36 | 0.64 |
| 16-13-02-00-00-002.121 Meridian Suburban | Timarron Capital Group Llc | P.O. Box 796 | Carmel | IN | 46082 S2 T17 R3 0.68 Ac | Commercial | 0.68 | 75.00 | 784.72 | 0.52 |
| 16-13-02-00-00-003.001 Meridian Suburban | Sepro Development Company II LLC | 11550 N. Meridian St, Ste 600 | Carmel | IN | 46032 S2 T17 R3 8.12 Ac | Commercial | 8.12 | 609.00 | 9370.48 | 6.21 |
| 16-13-02-00-00-003.002 Meridian Suburban | Fidelity Office Bldg II lp c/o REI Inv. | 11711 N. Pennsylvania St., Ste. 200 | Carmel | IN | 46032 S2 T17 R3 1.02 Ac | Commercial | 0.52 | 75.00 | 600.08 | 0.40 |
| 16-13-02-00-00-003.004 Meridian Suburban | | 302 S. 36th St, Ste 800 | Omaha | NE | 68131 S2 T17 R3 2.36 Ac | Commercial | 2.36 | 177.00 | 2723.44 | 1.81 |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | 11460 Meridian St N | Carmel | IN | 46032 S2 T17 R3 3.20 Ac | Commercial | 2.85 | 213.75 | 3288.90 | 2.18 |
| 15-3-02-00-00-004.000 Meridian Suburban | Scott, Suzanne & Walter TR Charitable Remainder Unitrust | 302 S. 36th St, Ste 800 | Omaha | NE | 68131 S2 T17 R3 4.33 Ac | Commercial | 3.70 | 277.50 | 4269.80 | 2.83 |
| 16-13-02-00-00-004.001 Meridian Suburban | Valley Development Co Inc | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 0.17 Ac | Undeveloped/Agricultural | 0.17 | 75.00 | 65.45 | 0.04 |
| 16-13-02-00-00-005.000 Meridian Suburban | Valley Development Co Inc | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 13.71 Ac | Undeveloped/Agricultural | 13.71 | 1028.25 | 5278.35 | 3.50 |
| 16-13-02-00-00-006.000 | NRC Corp c/o Stephen L Valinet | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 11.07 Ac | Commercial | 11.07 | 830.25 | 4261.95 | 2.83 |
| | Three Penn Mark Plaza c/o Colliers Turley Martin Tucker | 2500 One American Square | Indianapolis | IN | 46282 S2 T17 R3 3.83 Ac | Commercial | 3.83 | 287.25 | 4419.82 | 2.93 |
| 16-13-02-00-00-007.004 Meridian Suburban | · | 245 Park Ave, 26th Flr | New York | NY | 10167 S2 T17 R3 5.09 Ac | Commercial | 5.09 | 381.75 | 5873.86 | 3.89 |
| | Capstar Indianapolis Co Lic c/o Deloitte & Touche | P.O. Box 811280 | Chicago | IL (| 60681-1280 S2 T17 R3 0.08 Ac | Commercial | 80.0 | 75.00 | 92.32 | 0.06 |
| 16-13-02-00-00-007.301 Meridian Suburban | | P.O. Box 811280 | Chicago | IL (| 60681-1280 S2 T17 R3 3.90 Ac | Commercial | 3.90 | 292.50 | 4500.60 | 2.98 |
| 16-13-02-00-00-023.000 Meridian Suburban | , | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 15.08 Ac | Undeveloped/Agricultural | 6.50 | 487.50 | 2502.50 | 1.66 |
| 17-13-02-03-01-001.000 Mendian Suburban | · · · · · · · · · · · · · · · · · · · | 127 111th St W | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 27 | One Lot | 50.00 | 536.00 | 0.36 |
| 17-13-02-03-01-002.000 Mendian Suburban | | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 | Meridian Suburban Lot 26 | One Lot | 50.00 | 536.00 | 0.36 |
| 17-13-02-03-01-003.000 Meridian Suburban | | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 | Meridian Suburban Lot 25 | One Lot | 50.00 | 536.00 | 0.36 |
| 17-13-02-03-01-004.000 Meridian Suburban | | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 | Meridian Suburban Lot 24 | One Lot | 50.00 | 536.00 | 0.36 |
| 17-13-02-03-01-005.000 Meridian Suburban | ,,, | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 | Meridian Suburban Lot 23 | One Lot | 50.00 | 536.00 | 0.36 |
| 17-13-02-03-01-006.000 Meridian Suburban | | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 | Meridian Suburban Lot 22 | One Lot | 50.00 | 536.00 | 0.36 |
| 17-13-02-03-01-007.000 Meridian Suburban | · ····· y - · · · · · · · · · · · · · · | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 | Meridian Suburban Lot 21 | One Lot | 50.00 | 536.00 | 0.36 |
| 17-13-02-03-01-008.000 Meridian Suburban | · · · · · · · · · · · · · · · · · · · | 3641 Brumley Way | Carmel | iN | 46033 S2 T17 R3 | Meridian Suburban Lot 20 | One Lot | 50.00 | 536.00 | 0.36 |
| 17-13-02-03-01-009.000 Meridian Suburban | | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 | Meridian Suburban Lot 19 | One Lot | 50.00 | 536.00 | 0.36 |
| 12-3-02-03-01-010.000 Meridian Suburban | | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 | Meridian Suburban Lot 18 | One Lot | 50.00 | 536.00 | 0.36 |
| -02-03-02-001.000 Meridian Suburban | • | 107 W. 111th St | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 28 | One Lot | 50.00 | 536.00 | 0.36 |
| 17-13-02-03-02-002.000 Meridian Suburban | , | 59 W. 111th St. | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 29 | One Lot | 50.00 | 536.00 | 0.36 |
| 17-13-02-03-02-003.000 Meridian Suburban | | 49 W 111th St | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 30 | One Lot | 50.00 | 536.00 | 0.36 |
| 17-13-02-03-02-004.000 Meridian Suburban | | 39 W. 111th St | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 31 | One Lot | 50.00 | 536.00 | 0.36 |
| 17-13-02-03-02-005.000 Meridian Suburban | | 31 W. 111th St | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 32 | One Lot | 50.00 | 536.00 | 0.36 |
| 17-13-02-03-02-006.000 Meridian Suburban | | 11032 Tottenham Dr | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 33 | One Lot | 50.00 | 536.00 | 0.36 |
| 17-13-02-03-02-007.000 Meridian Suburban | | 11022 Tottenham Dr | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 34 | One Lot | 50.00 | 536.00 | 0.36 |
| 17-13-02-03-02-008.000 Meridian Suburban | | 40 Mersey Ct. | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 35 | One Lot | 50.00 | 536.00 | 0.36 |
| 17-13-02-03-02-009.000 Meridian Suburban | | 50 Mersey Ct | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 36 | One Lot | 50.00 | 536.00 | 0.36 |
| 17-13-02-03-02-010.000 Meridian Suburban | | 58 Mersey Ct | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 37 | One Lot | 50.00 | 536.00 | 0.36 |
| 17-13-02-03-02-011.000 Meridian Suburban | , | 51 Mersey Ct | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 38 | One Lot | 50.00 | 536.00 | 0.36 |
| 17-13-02-03-02-012.000 Meridian Suburban | Ebeling, August A | 41 Mersey Ct | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 39 | One Lot | 50.00 | 536.00 | 0.36 |
| 17-13-02-03-02-013.000 Meridian Suburban | 9 / | 11006 Tottenham Dr | | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 40 | One Lot | 50.00 | 536.00 | 0.36 |
| 17-13-02-03-02-014.000 Meridian Suburban | | 10946 Tottenham Dr | | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 41 | One Lot | 50.00 | 536.00 | 0.36 |
| 17-13-02-03-02-015.000 Meridian Suburban | Gilliam, Kenneth E. & Martha | 10930 Tottenham Dr | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 42 | One Lot | 50.00 | 536.00 | 0.36 |
| | | | | | | | | | | |

| 17-13-02-03-02-016.000 Meridian Suburban | McWilliams, Kathryn J. Trustee | 10926 Tottenham Dr | Carmel | ίΝ | 46032 S2 T17 R3 | Meridian Suburban Lot 43 | One Lot |
|--|--|--------------------|--------------|----|--------------------------------|---------------------------------------|-----------|
| 17-13-02-03-02-017.000 Meridian Suburban | Granger, Susan Cahill | 10916 Tottenham Dr | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 44 | One Lot |
| 17-13-02-03-02-018.000 Meridian Suburban | | 31 Manchester Ct | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 13 | One Lot |
| 17-13-02-03-02-019.000 Meridian Suburban | Dearmond, Douglas & Rebecca | 10842 Tottenham Dr | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 14 | One Lot |
| 17-13-02-03-02-020.000 Meridian Suburban | | 43 Manchester Ct | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 15 | One Lot |
| 17-13-02-03-02-021.000 Meridian Suburban | Gassman, Dean & Gloria | 53 Manchester Ct | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 16 | One Lot |
| 17-13-02-03-02-022.000 Meridian Suburban | Causey, Kevin Allen & Julienne | 52 Manchester Ct | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 46 | One Lot |
| 17-13-02-03-02-023.000 Meridian Suburban | | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 | Meridian Suburban Lot 17 | One Lot |
| 17-13-02-03-02-024.000 Meridian Suburban | Valley Development Co Inc | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 | Meridian Suburban Lot 47 | One Lot |
| 17-13-02-03-02-025.000 Meridian Suburban | | 3641 Brumley Way | Carmel | !N | 46033 S2 T17 R3 | Meridian Suburban Lot 48 | One Lot |
| 17-13-02-03-02-026.000 Meridian Suburban | | 3641 Brumley Way | Carmel | fN | 46033 S2 T17 R3 | Meridian Suburban Lot 49 | One Lot |
| 17-13-02-03-02-027.000 Meridian Suburban | | 42 Manchester Ct | Carmel | iN | 46032 S2 T17 R3 | Meridian Suburban Lot 45 | One Lot |
| 17-13-02-03-02-028.000 Meridian Suburban | Valley Development Co Inc | 3641 Brumley Way | Carmel | 1N | 46033 S2 T17 R3 | Meridian Suburban Lot 50 | One Lot |
| 17-13-02-03-02-029.000 Meridian Suburban | | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 | Meridian Suburban Lot 51 | One Lot |
| 17-13-02-03-02-030.000 Meridian Suburban | | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 | Meridian Suburban Lot 52 | One Lot |
| 17-13-02-03-02-031.000 Meridian Suburban | | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 | Meridian Suburban Lot 53 | One Lot |
| 17-13-02-03-02-032.000 Meridian Suburban | | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 | Meridian Suburban Lot 54 | One Lot |
| -02-03-02-033.000 Meridian Suburban | | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 | Meridian Suburban Lot 55 | One Lot |
| 3-02-03-02-034.000 Meridian Suburban | | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 | Meridian Suburban Lot 56 | One Lot |
| 17-13-02-03-02-035.000 Meridian Suburban | Valley Development Co Inc | 3641 Brumley Way | Carmel | IN | 46033 S2 T17 R3 | Meridian Suburban Lot 57 | One Lot |
| 17-13-02-03-03-001.000 Meridian Suburban | Schleicher, Earl H. I & Julia | 11 W. 111th St | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 1 | One Lot |
| 17-13-02-03-03-002.000 Meridian Suburban | Renschler, John W | 11035 Tottenham Dr | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 2 | One Lot |
| 17-13-02-03-03-003.000 Meridian Suburban | Chambers, Charles & Adrienne | 11025 Tottenham Dr | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 3 | One Lot |
| 17-13-02-03-03-004.000 Meridian Suburban | Scott, Robert E. & Carol J | 11015 Tottenham Dr | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 4 | One Lot |
| | the state of the s | 11005 Tottenham Dr | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 5 | One Lot |
| 17-13-02-03-03-006.000 Meridian Suburban | | 4251 Twilight Dr | Indianapolis | IN | 46254 S2 T17 R3 | Meridian Suburban Lot 6 | One Lot |
| 17-13-02-03-03-007.000 Meridian Suburban | | 10941 Tottenham Dr | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 7 | One Lot |
| 17-13-02-03-03-008.000 Meridian Suburban | | 3804 Lafayette Rd | Indianapolis | IN | 46254 S2 T17 R3 | Meridian Suburban Lot 8 | One Lot |
| 17-13-02-03-03-009.000 Meridian Suburban | St. John, Joshua D. & Myah A. Barnes JT | 10921 Tottenham Dr | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 9 | One Lot |
| 17-13-02-03-03-010.000 Meridian Suburban | | 10911 Tottenham Dr | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 10 | One Lot |
| 17-13-02-03-03-011.000 Meridian Suburban | | 10901 Tottenham Dr | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 11 | One Lot |
| 17-13-02-03-03-012.000 Meridian Suburban | Mulrey, John T. Sr & JoAnn | 10845 Tottenham Dr | Carmel | IN | 46032 S2 T17 R3 | Meridian Suburban Lot 12 | One Lot |
| 99-99-99-99-999.001 Meridian Suburban | | 1700 S. 10th St. | Noblesville | IN | 46060 Humber Ct, Manchester Ct | Tottenham Dr, Liverpool Dr, Mersey Ct | 11.04 |
| 99-99-99-99-999.002 Meridian Suburban | | 32 S. Broadway St. | Greenfield | IN | 46140 S2 T17 R3 | U.S. 31 | 57.24 |
| 99-99-99-99-999.005 | City of Carmel, Clerk Treasurer | One Civic Square | Carmel | IN | 46032 S2 T17 R3 | Penn & 111th | 10.71 |
| | | | | | | Totals | s: 155.52 |
| _ | | | | | | | |



Approx. 181 acres Total % Total Acreage Acreage Commercial Development 52.35 28.92 Residential Development/Lots 25.48 14.08 Forested Undeveloped/Ag 24.18 13.36 43.64 Right-of-ways 78.99 100.00 Totals: 181.00

57 Lots

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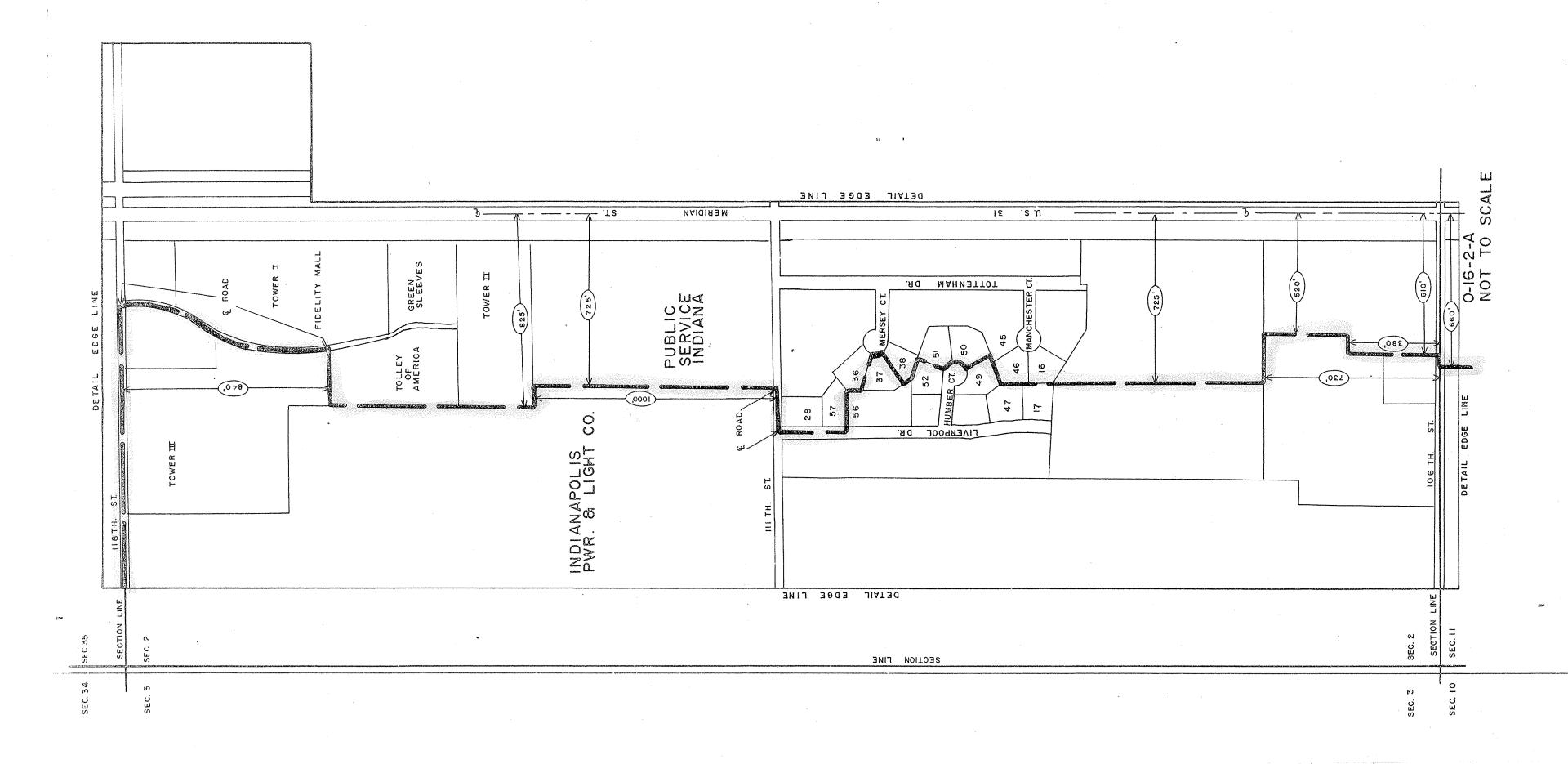
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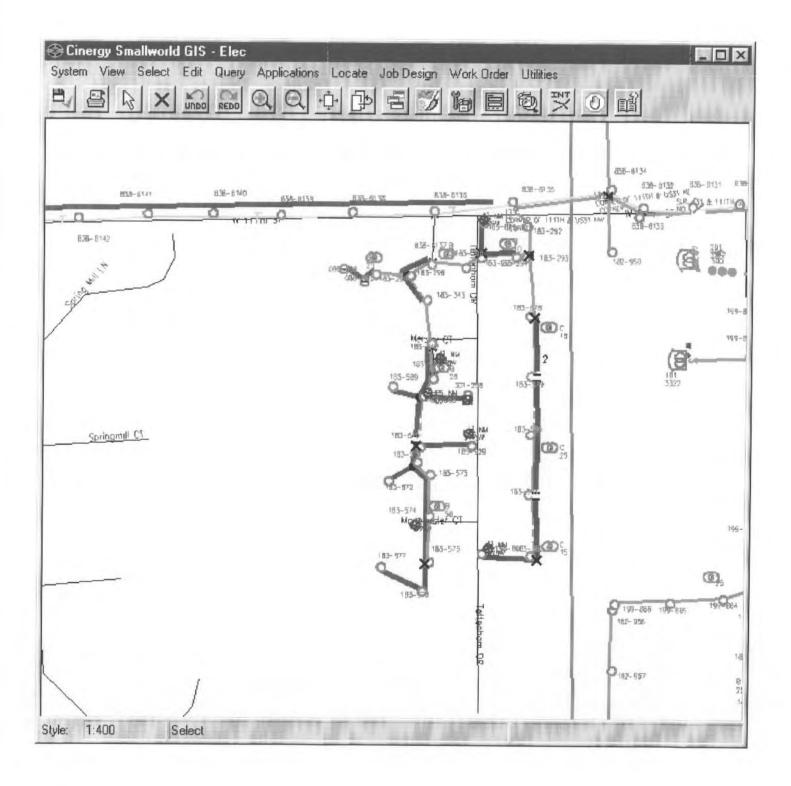


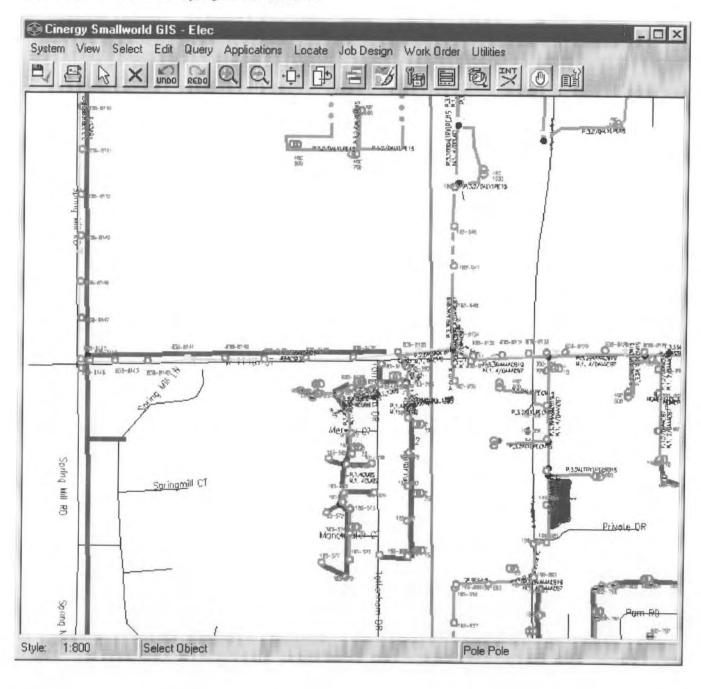
GREG MICHEEL

TEAM LEADER LINES TEAM



ARLINGTON SERVICE CENTER 3600 N. ARLINGTON AVENUE INDIANAPOLIS, INDIANA 46218-1807 OFFICE 317-261-5230 CELL 317-997-0091 FAX 317-261-5201 greg.micheel@aes.com







One Hamilton County Square Suite 188 Noblesville, IN 46060 Phone: (317) 776-9627 Fax: (317) 776-9628

Hamiltion County Surveyor's Office

Fax

| □ Urge | ent | □ For Review | ☐ Please Comment | ☐ Please Reply | □ Please Recycle |
|--------|-----|-----------------|------------------|-------------------|------------------|
| Re: | Dra | inage Objection | CC: | | |
| Phone: | 317 | 7-753-6933 | Pages: | 1 including cover | |
| Fax: | 317 | -581-2620 | Date: | June 18, 2002 | |
| То: | Joy | ce Harrison | From: | Tricia J. Banta | 9.15, |

•Comments: Attached is the objections that may be for causes as specified by law for the Meridian Suburban Subdivision. If you have any questions please call me at 776-8495. Thank you.

36-9-27-52 Reconstruction of drains; notice and hearing on surveyor's report and schedules; objections; final order

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Sec. 52. (a) When the schedules of damages and assessments are completed and marked filed, the board shall fix a date, time, and place for a hearing on the reconstruction report of the county surveyor and on the schedules of damages and assessments, and shall prepare a notice for each owner of land affected by the reconstruction. The notice must state:

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(1) the name and identifying number by which the proposed reconstruction is known;

(2) that the reconstruction report of the surveyor and the schedules of damages and benefits as determined by the board have been filed and are available for inspection in the office of the surveyor;

(3) that the land of the owner is shown by the schedule of damages to be damaged in the sum of ____ dollars;

(4) that the land of the owner is shown by the schedule of assessments to be assessed ____ percent of the total cost of reconstruction, and that ____ percent of the estimated total cost of the reconstruction is in the sum of ___ dollars;

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(5) that the land of the owner is shown by the schedule of assessments to be annually assessed in the sum of ____ dollars for estimated periodic maintenance of the reconstruction; and

(6) the date, hour, and place of the hearing on the surveyor's reconstruction report and on the schedules of damages and assessments.

(b) Not less than thirty (30) nor more than forty (40) days before the date of the hearing, the board shall mail a copy of the notice in a five (5) day return envelope to each owner

named in the schedules of damages and assessments.

- (c) The board shall publish a notice in accordance with IC 5-3-1. The notice must:
 - (1) identify the proposed reconstruction;
- (2) be addressed to whom it may concern and to the addressee on each letter that was mailed under subsection (b) and was returned undelivered; and
- (3) state that:
- (A) the reconstruction report of the county surveyor and the schedules of damages and assessments made by the board have been filed and are available for public inspection in the office of the county surveyor; and
- (B) a hearing will be held before the board on the report and schedules, specifying the time and place of hearing.
- (d) Not less than five (5) days before the board's hearing on a reconstruction report, an owner of lands affected by the report or by the schedules of damages and assessments may file with the board written objections to the report, schedules, or both. The objections may be for one (1) or more of the following causes:
- (1) The costs, damages, and expenses of the proposed reconstruction will exceed the benefits that will result to the owners of all land benefited.
- (2) The objector is the owner of land assessed as benefited, and the benefits assessed against his land are excessive.
- (3) The objector is the owner of land damaged by the reconstruction, and:
- (A) the board failed to find that his land is damaged; or
- (B) the damages assessed to his land are inadequate.

Each objector may file written evidence in support of his objections. The failure of an owner to file objections constitutes a waiver of his right to subsequently object, on the grounds stated in this subsection, to any final action of the board.

- (e) On or before the day of the hearing, the county surveyor shall, and any owner of land affected by the proposed reconstruction may, cause written evidence to be filed in support of or in rebuttal to any objection filed under subsection (d).
- (f) The board shall consider the objections and evidence filed, may adjourn the hearing from day to day or to a day certain, and may issue an order permitting additional written evidence to be filed in support of or in rebuttal to the objections and evidence previously filed.
- (g) After considering all of the objections and evidence, the board may amend the schedules of damages and assessments, and the county surveyor may modify his report, as justice may require.
- (h) Before final adjournment of the hearing, the board shall determine in writing whether the costs, damages, and expenses of the proposed reconstruction will be less than the benefits accruing to the owners of land benefited by the construction. If the board answers this question in the negative, it shall dismiss the proceedings. If the board answers the question in the affirmative, it shall adopt the reconstruction report of the county surveyor and the schedule of damages and assessments, including annual assessments for periodic maintenance, as originally filed or as amended, into its findings, and issue an order declaring the proposed reconstruction established. The board shall mark the findings and order filed and publicly announce the findings and order at the hearing. Immediately after that, the board shall publish a notice in accordance with IC 5-3-1. The notice must identify the drainage proceedings and state that the findings and order of the board have been filed





FAX COVER SHEET

TO: TRISHA BANTA

Company: HAMILTON CO. SURVEYOR'S OFFICE

Phone: 776-8495 Fax: 776-9628

From: Neal Smith

Company: Pittman Partners, Inc.

Phone: (317) 580-0883

Fax: (317) 580-9786

Date: 5-30-02_

Pages including this

cover page:

Comments:

Copy OF MY BUSINESS CARD

PittmanPartners 🖚

Neal Smith

P.O. Box 554 • Carmel, IN 46082 (317) 580-0883 • (317) 580-9693 (317) 580-9786 Fax

CONFIDENTIALITY NOTICE: This message is for the exclusive use of the individual or entity to which it is addressed and is confidential. If you are not the addressee or an employee or agent of the addressee responsible for delivering it to the addressee, please do not read, use, disclose, copy or distribute this message and do not take any action in reliance upon it. If you have received this message in error, please notify us immediately by telephone to arrange for its return.

HAMILTON COUNTY SURVEYOR'S OFFICE

One Hamilton County Square, Suite 188 Noblesville, IN 46060 Phone: 317-776-8495

Fax: 317-776-9628

| LETTER OF TRANSMITTAL | | | | | | |
|--|-----------------------------------|---|--|--|--|--|
| Date: 06/07/2002 Company: Pittman Partners,Inc. P.O. Box 554 Carmel, In 46082 Attention: Neil Smith | | | | | | |
| Re: Me | Re: Meridian Suburban Subdivision | | | | | |
| We are | sending you | the following items: | | | | |
| [X] Plan | ıs [] M | ap [] Copy of Letter [] Change Order [] Other | | | | |
| Copies | Date | Description | | | | |
| 1 | 06/07/02 | Preliminary Constructions plans for the Meridian Suburban Subdivision Drainage Project. | | | | |
| | | | | | | |
| These are transmitted as checked below: [] For your file [] As requested [X] For Review & Comment [] For Approval [] For your use | | | | | | |
| REMARKS: Please call me with any questions or concerns. | | | | | | |
| Thank You. | | | | | | |
| Signed: <u>Iricia I. Banta</u> Date: 6/7/02 Tricia J. Banta | | | | | | |