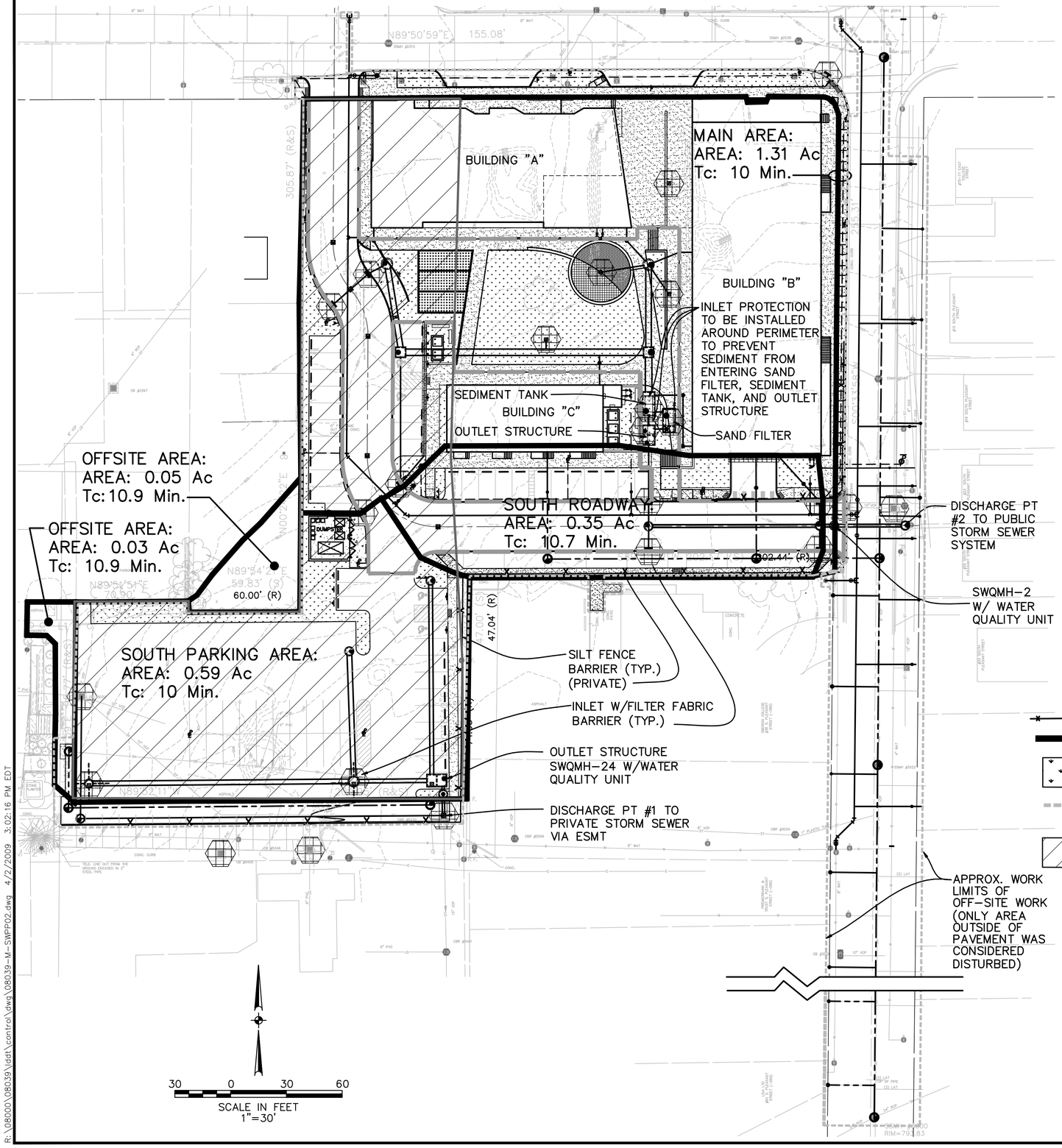


## LEGEND:

- INLET PROTECTION, SEE SWPPP DETAILS
- SILT FENCE BARRIER
- DRAINAGE AREA TO SEDIMENT TRAP
- AREAS TO BE PERMANENTLY SEEDED, SEE SWPPP DETAILS
- DISTURBED AREA LIMITS (TRENCHING IN PVMT. OF ROW NOT INCLUDED IN DISTURBED ACREAGE)
- SUBJECT PROPERTY THAT HAS GONE THROUGH THE VOLUNTARY ACTION PROGRAM (VAP), SPECIFICALLY IDENTIFIED AS PARCEL #0900086102105 (AS DESIGNATED ON THIS SITE MAP), SEE NOTE #27 OF THE GENERAL SWPPP NOTES.

**NOTE:**
BMP'S MAY BE REMOVED ONCE ALL UPSTREAM AREAS ARE PERMANENTLY STABILIZED WHICH INCLUDES 70% UNIFORM COVERAGE DENSITY OF THE SEEDED AREAS.

## DRAINAGE AREA INFORMATION:

PRE-CONSTRUCTION (CONTRIBUTARY DRAINAGE AREA)

MAIN AREA:

PERVIOUS AREA: 15,246 SF = 0.35± Ac.
IMPERVIOUS AREA: 55,321 SF = 1.27± Ac.

RUNOFF COEFFICIENT:

| | Acres | | "C" | | Wt. "C" |
|---|---|---|---|---|---|
| BLDG/PVMT | 1.26/1.62 | x | 0.96 | = | 0.75 |
| GRASSY AREAS | 0.32/1.62 | x | 0.47 | = | 0.09 |
| GRAVEL | 0.01/1.62 | x | 0.60 | = | 0.00 |
| BRUSH | 0.03/1.62 | x | 0.41 | = | 0.00 |
| | | | | | 0.84 = PRE-COMPOSITE "C" |

SOUTH PARKING AREA:

PERVIOUS AREA: 20,909 SF = 0.48± Ac.
IMPERVIOUS AREA: 8,276 SF = 0.19± Ac.

RUNOFF COEFFICIENT:

| | Acres | | "C" | | Wt. "C" |
|---|---|---|---|---|---|
| PVMT | 0.19/0.67 | x | 0.96 | = | 0.27 |
| GRASSY AREAS | 0.08/0.67 | x | 0.47 | = | 0.12 |
| GRAVEL | 0.40/0.67 | x | 0.60 | = | 0.36 |
| | | | | | 0.75 = PRE-COMPOSITE "C" |

POST-CONSTRUCTION (CONTRIBUTARY DRAINAGE AREA)

MAIN AREA:

TOTAL AREA: 72,310 SF =1.66± Ac.

RUNOFF COEFFICIENT:

| | Acres | | "C" | | Wt "C" |
|---|---|---|---|---|---|
| BLDG/PVMT | 1.46/1.66 | x | 0.96 | = | 0.84 |
| GRASSY AREAS | 0.20/1.66 | x | 0.47 | = | 0.06 |
| | | | | | 0.90 = POST-COMPOSITE "C" |

SOUTH PARKING AREA:

TOTAL AREA: 29,185 SF =0.67± Ac.

RUNOFF COEFFICIENT:

| | Acres | | "C" | | Wt "C" |
|---|---|---|---|---|---|
| PVMT | 0.58/0.67 | x | 0.96 | = | 0.83 |
| GRASSY AREAS | 0.09/0.67 | x | 0.47 | = | 0.13 |
| | | | | | 0.96 = POST-COMPOSITE "C" |

## POST-DEVELOPMENT WATER QUALITY INFO:

**MAIN AREA (NORTH):**
TOTAL DRAINAGE AREA: 1.31 Ac.
Tc: 10 MIN.

TIME OF CONCENTRATION (Tc) IS BASED ON TRAVEL TIME AS SHOWN IN STORM SEWER CALCULATIONS.

WATER QUALITY TREATMENT METHOD:
SEDIMENTATION TANK AND SAND FILTER
SIZED FOR 1.31 Ac.

**SOUTH ROADWAY:**
TOTAL DRAINAGE AREA: 0.35 Ac.
Tc: 10.7 MIN.

TIME OF CONCENTRATION
(Tc) IS BASED ON TRAVEL TIME AS SHOWN IN STORM SEWER CALCULATIONS.

WATER QUALITY TREATMENT METHOD:
SIZED FOR 0.35 Ac.

WATER QUALITY FLOW RATE=1.2 CFS
10 YEAR PEAK CONTROLLED FLOW=5.5 CFS

THIS UNIT HAS AN 80% REMOVAL RATE OF AN AVERAGE PARTICLE SIZE OF 240-MICRONS.

**SOUTH PARKING AREA:**
TOTAL DRAINAGE AREA: 0.59 Ac.
Tc: 10 MIN.

TIME OF CONCENTRATION
(Tc) IS BASED ON TRAVEL TIME AS SHOWN IN STORM SEWER CALCULATIONS.

WATER QUALITY TREATMENT METHOD:
CONTECH VORTSENTRY HS48 (SWQ MH-24)
SIZED FOR 0.67 Ac.

THIS UNIT HAS AN 80% REMOVAL RATE OF AN AVERAGE PARTICLE SIZE OF 240-MICRONS.

WATER QUALITY FLOW RATE=1.2 CFS
10 YEAR PEAK CONTROLLED FLOW=1.9 CFS

**OFFSITE:**
TOTAL DRAINAGE AREA: 0.08 Ac.
Tc: 10.9 MIN.

TIME OF CONCENTRATION
(Tc) IS BASED ON TRAVEL TIME AS SHOWN IN STORM SEWER CALCULATIONS.

AREA NOT BEING COUNTED IN WATER QUALITY TREATMENT, ONLY AS PASS THRU

| REVISIONS | | | |
|---|---|---|---|
| DESCRIPTION | DATE | BY | |
| REVISED PER EPA | 1-09-09 | TMC | |
| REVISED PER CITY | 12-08-08 | CFE | |
| REVISED PER EPA | 12-05-08 | CFE | |
| REVISED COURTYARD PER ARCHITECT | 11-11-08 | RRB | |
| REVISED PER OMLPS | 10-03-08 | RRB | |
| REVISED PER CITY & OWNER | 9-26-08 | RRB | |
| REISSUED | 8-12-08 | RRB | |
| REISSUED FOR SOUTH PARKING CORRECTION | 6-20-08 | RRB | |

DATE: 3-5-08
DRAWN BY: TMJ
CH'D BY: RRB
DWG. NAME: 08039-P-SWPP02
PATH: L:\DDT\CONTROL\DWG
F.B.

KS Associates, Inc.
260 Burns Road, Suite 100
Elyria, OH 44035
P 440 365 4730
F 440 365 4790
www.ksassociates.com
KS ASSOCIATES

**POST-DEVELOPED STORM WATER POLLUTION PREVENTION PLAN**
# EAST COLLEGE STREET PROJECT PUBLIC/PRIVATE IMPROVEMENTS
**PART OF ORIGINAL RUSSIA TOWNSHIP LOT No. 86**
**CITY OF OBERLIN, COUNTY OF LORAIN, STATE OF OHIO**

SHEET
38 (SW-3)
OF
42

JOB NO.
08039

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