



DESIGN CALCULATION:
 $(2' \times 40') \times (2' \times 40') \times (8' \times 13') = 2.64$

PAVEMENT SECTION
 N.T.S.

- NOTES:
- THE EXISTING FIRE LINE AND DOMESTIC WATER SERVICES MUST BE TERMINATED AT THE MAIN PER DPU/WWW REQUIREMENTS.
 - PROPOSED DOMESTIC WATER SERVICE SHALL BE TAPPED FROM THE NEW FIRE SERVICE INSIDE THE BUILDING.
 - THE EXISTING SANITARY SERVICE LATERAL IS NOT LINED AND MAY BE RE-USED ONLY IF APPROVED BY DPU/WWW, IF NOT APPROVED FOR RE-USE IT MUST BE REPLACED OR LINED PER CITY STANDARDS. AN INSPECTION MANHOLE REQUIRED NEAR THE BUILDING.

Detention Requirements

Increase in Impervious Area= 24,543sf<25,000sf increase in impervious area therefore onsite detention is not required for this development.

Ogden Avenue Drainage Area

Total Area	0.93	acres
Time of Concentration	5.00	min
10-yr Intensity (i)	7.44	in/hr
Impervious Area, Existing	0.78	acres
Rational Coefficient, Existing	0.81	-
Site Runoff, Existing, 10 yr	5.56	cfs
Impervious Area, Proposed	0.73	acres
Rational Coefficient, Proposed	0.77	-
Site Runoff, Proposed, 10 yr	5.32	cfs

Vacant Lot Drainage Area

Total Area	1.26	acres
Time of Concentration, Existing	10.20	min
Time of Concentration, Proposed	60.00	min
10-yr Intensity (i), Existing	6.78	in/hr
10-yr Intensity (i), Proposed	2.42	in/hr
Impervious Area, Existing	0.00	acres
Rational Coefficient, Existing	0.30	-
Site Runoff, Existing, 10 yr	2.55	cfs
Impervious Area, Proposed	0.60	acres
Rational Coefficient, Proposed	0.59	-
Site Runoff, Proposed, 10 yr	1.78	cfs

Volume Control

Impervious Areas		
Total Impervious Areas, Ogden Lot	0.73	acres
Total Impervious Areas, Vacant Lot	0.60	acres
Total new Impervious Areas	1.33	acres
Volumes Required		
1.25" x Impervious Area, Ogden Lot	0.076	acre-ft
1.25" x Impervious Area, Vacant Lot	0.062	acre-ft

Overflow Weir Calculation

Total Area Ogden Ave Drainage Area	0.93	acres
Total Area Vacant Lot Drainage Area	1.26	acres
Total Area	2.19	acres
Overflow rate	1.00	cfs/acre
Overflow discharge	2.19	cfs
Weir Crest Elevation	741.00	ft
Weir Crest Length	15.00	ft
Weir Coefficient	0.60	-
Headwater above weir crest	0.39	ft
Headwater Elevation	741.39	ft

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12-31-20 PER CITY REVIEW
 12-21-20 CITY REVIEW COMMENTS
 12-1-20 PER CITY REVIEW

PRELIMINARY ENGINEERING PLAN

PROJECT #: 7699.01 DATE: 12-31-20

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