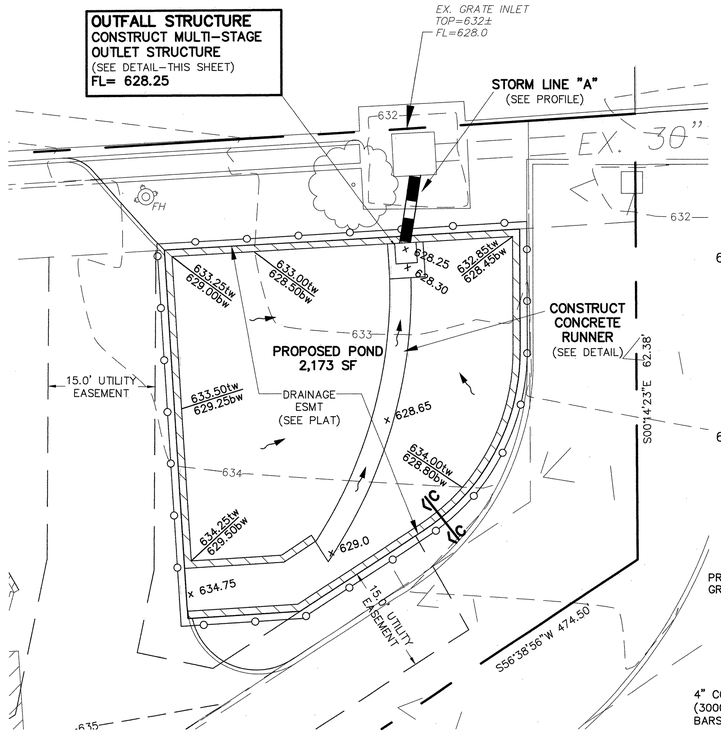
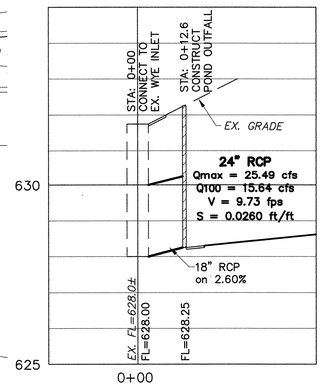
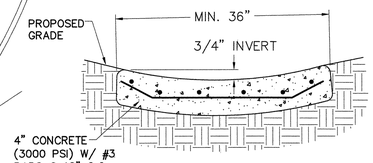


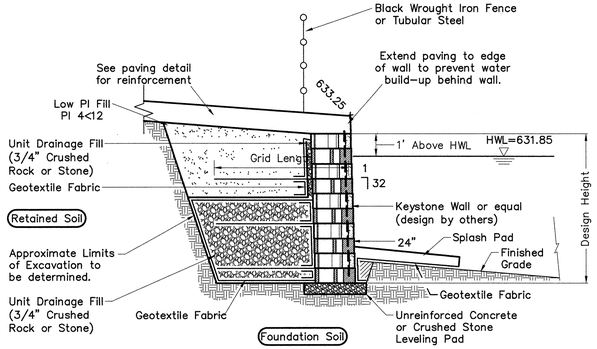


STORM LINE "A"



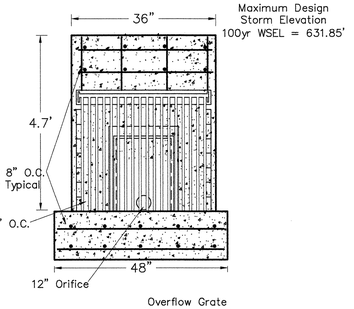
CONCRETE RUNNER DETAIL

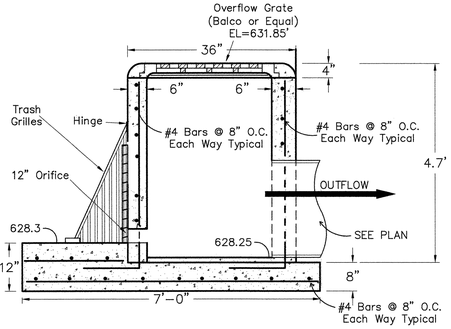
NOT TO SCALE



SECTION C-C

N.T.S.





MULTIPLE-STAGE OUTLET STRUCTURE

NOT TO SCALE

WARNING:
PRIOR TO THE BEGINNING OF ANY CONSTRUCTION OR CONSTRUCTION STAKING, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CONTACT THE CIVIL ENGINEER TO ENSURE THAT ALL PARTIES ARE IN POSSESSION OF THE MOST CURRENT SET OF CONSTRUCTION DOCUMENTS.

NOTES:
1) **ALL WORK MUST CONFORM TO TOWN OF ADDISON STANDARDS.**
2) **ALL WORK IN PUBLIC RIGHT-OF-WAY SHALL CONFORM TO TOWN OF ADDISON STANDARDS AND DETAILS**
3) **SEE PLAT FOR ALL INFORMATION REGARDING EASEMENTS, PROPERTY LINES, ETC.**

***NOTE:**
THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING THE LOCATION OF ALL EXISTING UTILITIES AND EASEMENTS PRIOR TO START OF OPERATIONS. CONTRACTOR WILL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES PRIOR TO STARTING THE WORK. EXISTING UTILITIES AND UNDERGROUND FACILITIES INDICATED ON THESE PLANS HAVE BEEN LOCATED FROM REFERENCE INFORMATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY BOTH THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES AND UNDERGROUND FACILITIES PRIOR TO START OF CONSTRUCTION. TAKE THE NECESSARY PRECAUTIONS IN ORDER TO PROTECT ALL FACILITIES ENCOUNTERED. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION.

**** NOTICE TO CONTRACTORS ****

TOPOGRAPHIC INFORMATION TAKEN FROM A TOPOGRAPHIC SURVEY PERFORMED BY CONNALLY & ASSOCIATES, INC. OF DALLAS, TEXAS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY, IN WRITING, OF ANY DISCREPANCIES OR OMISSIONS TO THE TOPOGRAPHIC INFORMATION. THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR CONFIRMING THE LOCATION (HORIZONTAL/VERTICAL) OF ANY BURIED CABLES, CONDUITS, PIPES, AND STRUCTURES (STORM SEWER, SANITARY SEWER, WATER, GAS, TELEVISION, TELEPHONE, ETC.) WHICH IMPACT THE CONSTRUCTION SITE. THE CONTRACTOR(S) SHALL NOTIFY THE OWNER AND ENGINEER IF ANY DISCREPANCIES ARE FOUND BETWEEN THE ACTUAL CONDITIONS VERSUS THE DATA CONTAINED IN THE CONSTRUCTION PLANS. ANY COSTS INCURRED AS THE RESULT OF NOT CONFIRMING THE ACTUAL LOCATION (HORIZONTAL/VERTICAL) OF SAID CABLES, CONDUITS, PIPES, AND STRUCTURES SHALL BE BORNE BY THE CONTRACTOR. ADDITIONALLY, THE CONTRACTOR(S) SHALL NOTIFY THE OWNER AND ENGINEER IF ANY ERRORS OR DISCREPANCIES ARE FOUND ON THE CONSTRUCTION DOCUMENTS (PS&E), WHICH NEGATIVELY IMPACT THE PROJECT. ENGINEER AND OWNER SHALL BE INDEMNIFIED OF PROBLEMS AND/OR COST WHICH MAY RESULT FROM CONTRACTOR'S FAILURE TO NOTIFY ENGINEER AND OWNER.

Pond Report

Hydraflow Hydrographs by Intelisolve v9.01 — Wednesday, Apr 16, 2008

Pond No. 1 - Thomas Dev.<New Pond>

Pond Data

Contours - User-defined contour areas. Average end area method used for volume calculation. Begining Elevation = 628.25 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	628.25	1,825	0	0
1.00	629.25	1,825	1,825	1,825
2.00	630.25	1,825	1,825	3,650
3.00	631.25	1,825	1,825	5,474
4.00	632.25	1,825	1,825	7,299
5.00	633.25	1,825	1,825	9,124

Culvert / Orifice Structures

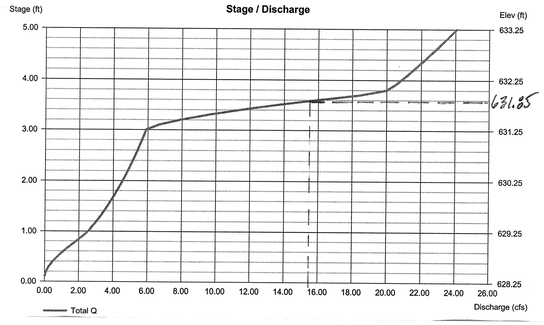
	[A]	[B]	[C]	[PrfRsr]
Rise (in)	= 18.00	12.00	0.00	0.00
Span (in)	= 18.00	12.00	0.00	0.00
No. Barrels	= 1	1	0	0
Invert El. (ft)	= 628.25	628.30	0.00	0.00
Length (ft)	= 25.00	0.00	0.00	0.00
Slope (%)	= 0.00	0.00	0.00	n/a
N-Value	= .013	.013	.013	n/a
Orifice Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	No	No	No

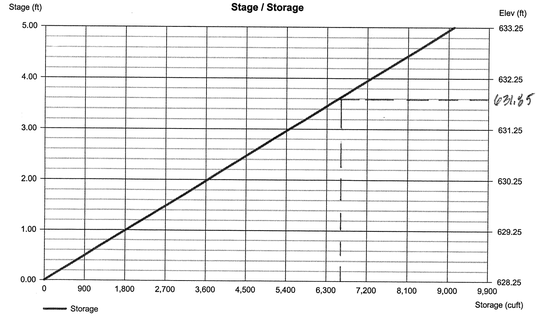
Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 6.00	0.00	0.00	0.00
Crest El. (ft)	= 631.25	0.00	0.00	0.00
Weir Coeff.	= 3.33	3.33	3.33	3.33
Weir Type	= Riser	---	---	---
Multi-Stage	= Yes	No	No	No

Exfil.(in/hr) = 0.000 (by Wet area)
TW Elev. (ft) = 0.00

Note: Culvert/Orifice outflows are analyzed under inlet and outlet control. Weir risers are checked for orifice conditions.





Drainage/Detention Calculations
Modified Rational

Onsite Existing Conditions		
A =	2.20	acres
C =	0.90	
T_c =	14.00	minutes
I_{100} =	7.90	in/hr
Q =	15.64	cfs

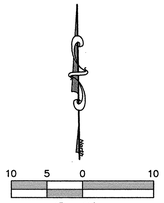
Onsite proposed Conditions		
A =	1.60	acres
C =	1.00	
T_c =	5.00	minutes
I_{100} =	10.60	in/hr
Q =	16.96	cfs

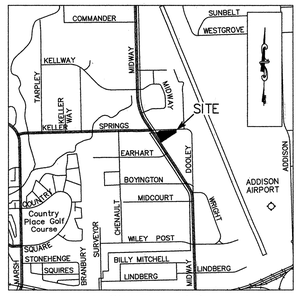
By-Pass to Existing Inlet at end of Access Street

2.2 acres to existing Street inlet
-0.6 acres to existing Street inlet
1.6 acres to pond

Runoff per Storm Event Developed

Time(min.)	I-100yr	C	A(acres)	Q(cfs)	Inflow (cf)	Outflow (cf)	Storage (cf)	
1	11	1.00	1.60	17.60	1056	880	176	
5	10.6	1.00	1.60	16.96	5088	1320	3768	
10	8.8	1.00	1.60	14.08	8448	1760	6688	controls
15	7.7	1.00	1.60	12.32	11088	11732	-644	
20	6.9	1.00	1.60	11.04	13248	14078	-830	
30	5.75	1.00	1.60	9.20	16560	18770	-2210	
40	4.9	1.00	1.60	7.84	18816	23463	-4647	
50	4.4	1.00	1.60	7.04	21120	28156	-7036	
60	4	1.00	1.60	6.40	23040	32848	-9808	
70	3.6	1.00	1.60	5.76	24192	37541	-13349	
80	3.3	1.00	1.60	5.28	25344	42233	-16889	
90	3.1	1.00	1.60	4.96	26784	46926	-20142	
100	2.9	1.00	1.60	4.64	27840	51619	-23779	
110	2.7	0.90	1.60	3.89	25661	56311	-30650	
120	0	0.90	1.60	0.00	0		0	





VICINITY MAP
NOT TO SCALE

LEGEND

- = PROPERTY LINE
- EX. W = EX. WATER
- EX. SS = EX. SANITARY SEWER
- S = EX. SS MANHOLE
- CO = EX. SS CLEANOUT
- G = EX. GAS METER
- WM = EX. WATER METER
- FH = EX. FIRE HYDRANT
- T = EX. WATER VALVE
- EXIST. or EX. = EXISTING
- ESMNT. = EASEMENT
- LS = LANDSCAPE
- BC = BACK OF CURB
- B-B = BACK OF CURB TO BACK OF CURB
- ℄ = CENTERLINE
- = PROP. FIRE HYDRANT
- = PROPOSED FIRELANE & ACCESS ESMT

AS-BUILT
OCTOBER 27, 2009
GERALD E. MONK, P.E.

INFORMATION SHOWN ON THESE PLANS WAS FURNISHED BY THE CONTRACTOR. ALL RESPONSIBILITY FOR THE ACCURACY BELONGS TO THE CONTRACTOR.

ONLY DRAWINGS STAMPED "RELEASED FOR CONSTRUCTION" BY THE TOWN OF ADDISON TO BE USED FOR CONSTRUCTION.

STATE OF TEXAS
GERALD E. MONK
44563
REGISTERED
PROFESSIONAL
ENGINEER
8/13/08

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BENCHMARK:
NORTHING 7,035,436.612'
EASTING 2,466,177.089'
ELEVATION 531.46

STORM PROFILE & POND REQUIREMENTS

THOMAS DEVELOPMENTS

THOMAS DEVELOPMENTS
LOTS 1 & 2, BLOCK 1, 2.16 Acres
Town of Addison, Dallas County, Texas

developer
TOM SPAGNOLA
3211 Valley Forge Drive, McKinney, Texas 75070
972 926-8086 Fax 972 481-1640

consultant
JERRY DEFEO
1806 Eastern Hills, Garland, Texas 75043
972 240-5800 Fax 972 240-5818

prepared by
MONK CONSULTING ENGINEERS
1200 W. State Street, Garland Texas 75040
972 272-1763 Fax 972 272-8761

PROJECT NO.: 2007-24

date:	scale:	sheet:
8/13/08	1" = 10'	C104A