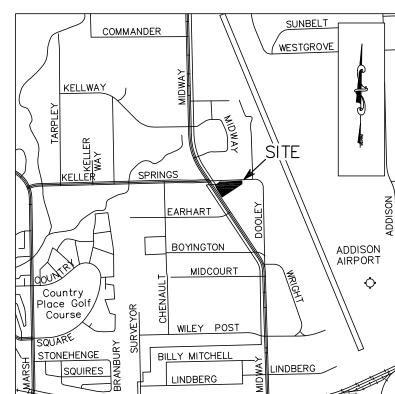


and a cross fall of no greater than 2% unless otherwise noted.



VICINITY MAP NOT TO SCALE

 $\longrightarrow$  EX. W $\longrightarrow$  = EX. WATER

\_\_\_\_ EX. SS\_\_\_ = EX. SANITARY SEWER = EX. SS MANHOLE

= EX. SS CLEANOUT

= EX. GAS METER = EX. WATER METER

= EX. FIRE HYDRANT

= EX. WATER VALVE

EXIST. or EX. = EXISTING

= EASEMENT

= LANDSCAPE = BACK OF CURB

= BACK OF CURB TO BACK OF CURB

= PROP. FIRE HYDRANT

= CENTERLINE

= PROPOSED FIRELANE & ACCESS ESMT



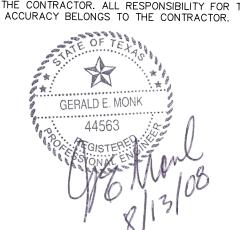


= PROPOSED 8" PAVING

AS-BUILT OCTOBER 27, 2009

GERALD E. MONK, P.E.

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### SITE & DIMENSION CONTROL PLAN

## THOMAS DEVELOPMENTS

THOMAS DEVELOPMENTS LOTS 1 & 2, BLOCK 1, 2.16 Acres

Town of Addison, Dallas County, Texas

<u>developer</u> **TOM SPAGNOLA** 

3211 Valley Forge Drive, McKinney, Texas 75070

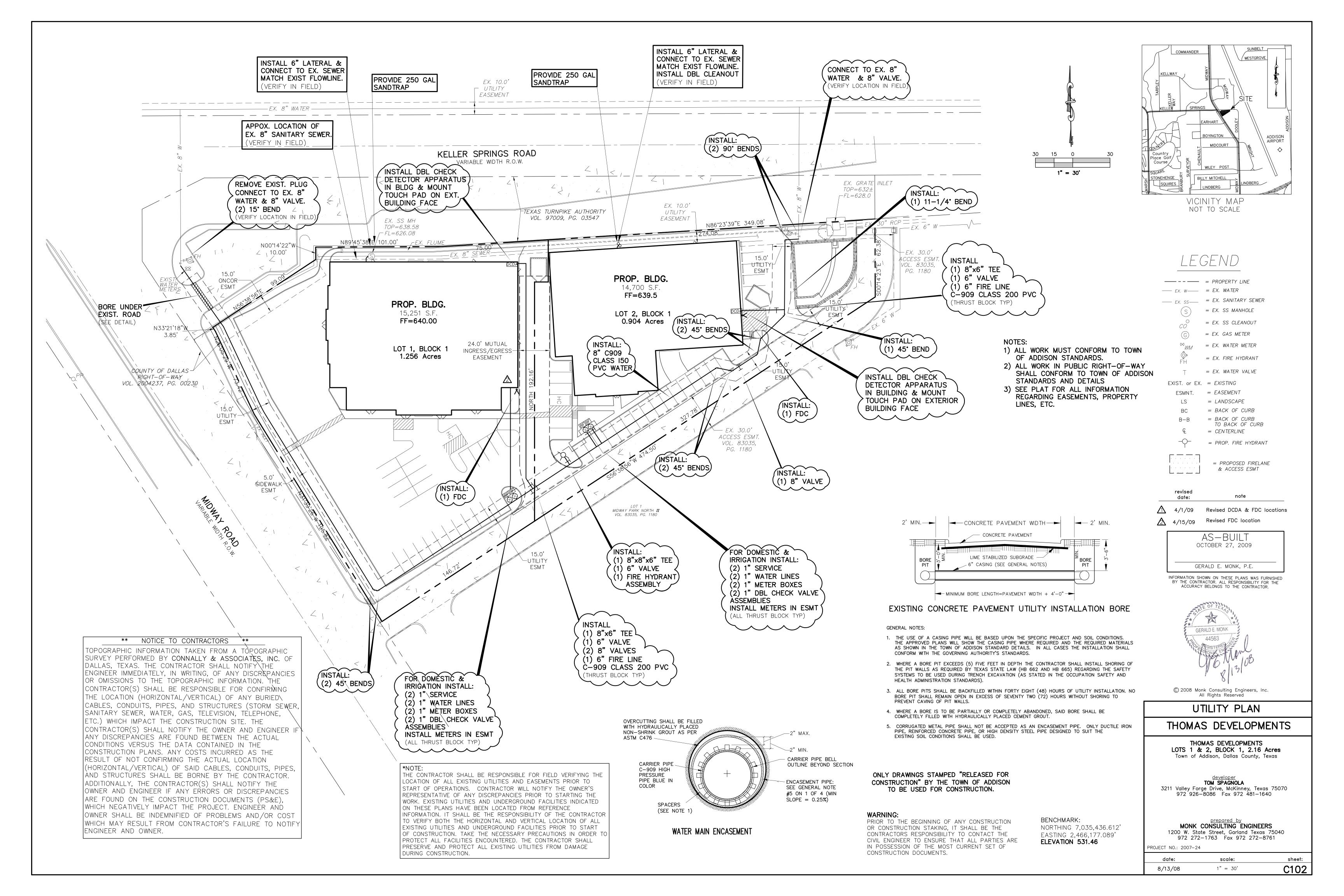
972 926-8086 Fax 972 481-1640

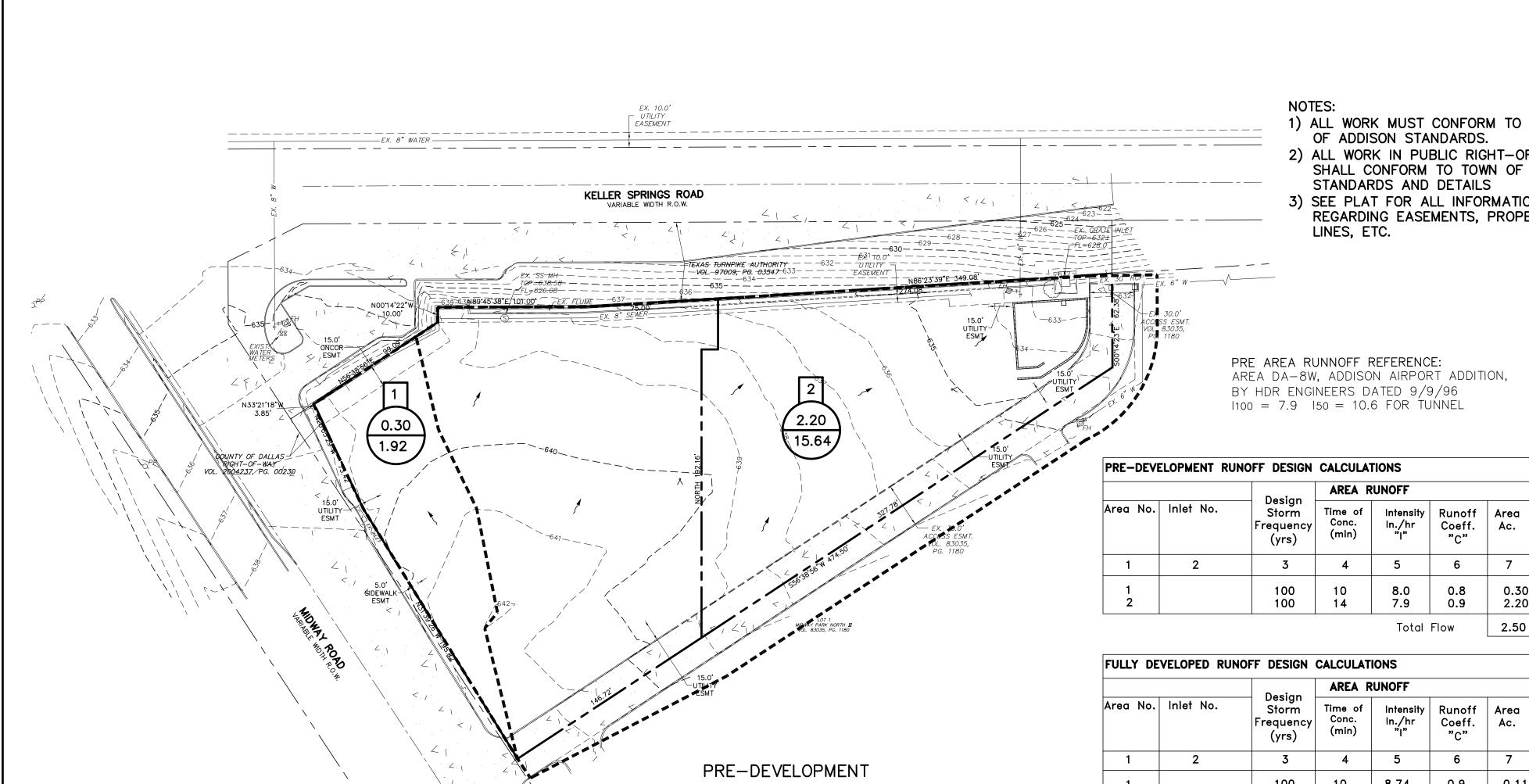
MONK CONSULTING ENGINEERS 1200 W. State Street, Garland Texas 75040 972 272-1763 Fax 972 272-8761

ROJECT NO.: 2007-24

CONSTRUCTION DOCUMENTS.

date: scale: sheet: 8/13/08 1" = 30'





EASEMENT

KELLER SPRINGS ROAD

*─VOL.─97009*, *PG. ─03547* <sup>−633</sup>

LOT 2, BLOCK

0.904 Acres

PROP, BLDG. 14,700 S.F.

FF = 639,50

0.34 2.67

POST-DEVELOPMENT

 $Q_{100}=2.87$ 

LOT-1, BLOCK 1 1.256 Acres

PROP. BLDG.

15,251 S.F FF = 640.0

—— EX. 8" WATER —

₹8.0

- 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.

PRE AREA RUNNOFF REFERENCE: AREA DA-8W, ADDISON AIRPORT ADDITION, BY HDR ENGINEERS DATED 9/9/96 

ln./hr <sup>\*</sup> **"I"** 

5

7.9

ln./hr "l"

8.74

8.74

8.74

8.74

100

100

15.64 MAX TO SYSTEM FROM EX. AREA DA-8W

4.72 BY-PASS POND TO TUNNEL SYSTEM

3b

Q100=10.92 < 1. < 14.

0.26

2.05

10.92 MAX FROM POND

10

10

10

Total Flow

Coeff.

0.9

Coeff. Ac.

0.9

0.9

0.9

Ac.

(c.f.s.)

(c.f.s.)

1.79 | 14.08 | To POND

0.26 | 2.05 | To Ex. Inlet A

0.34 | 2.67 | To Ex. Inlet B

2.50 | 17.56

2.50 | 19.67

Remarks

Remarks

1.92 | To Midway Rd.

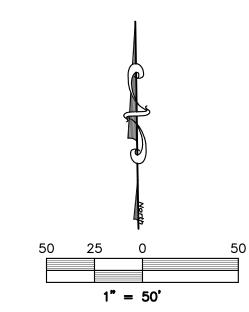
0.87 | To Midway Rd.

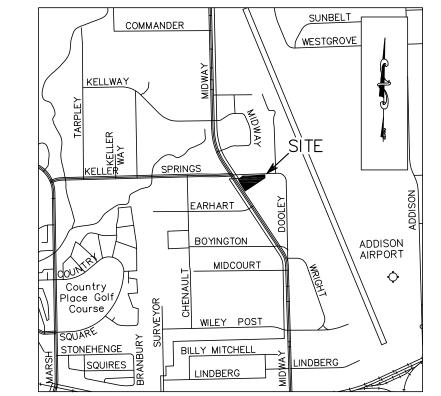
2.20 | 15.64 | To exist. flume

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 RESPONSIBILIT 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.





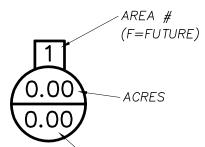
VICINITY MAP NOT TO SCALE

\*\* 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.

LEGEND

460 = EXISTING CONTOURS



AS-BUILT OCTOBER 27, 2009

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GERALD E. MONK, P.E.



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## LOCAL DRAINAGE AREA MAP

## THOMAS DEVELOPMENTS

THOMAS DEVELOPMENTS

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

TOM SPAGNOLA

3211 Valley Forge Drive, McKinney, Texas 75070 972 926—8086 Fax 972 481—1640

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

PROJECT NO.: 2007-24

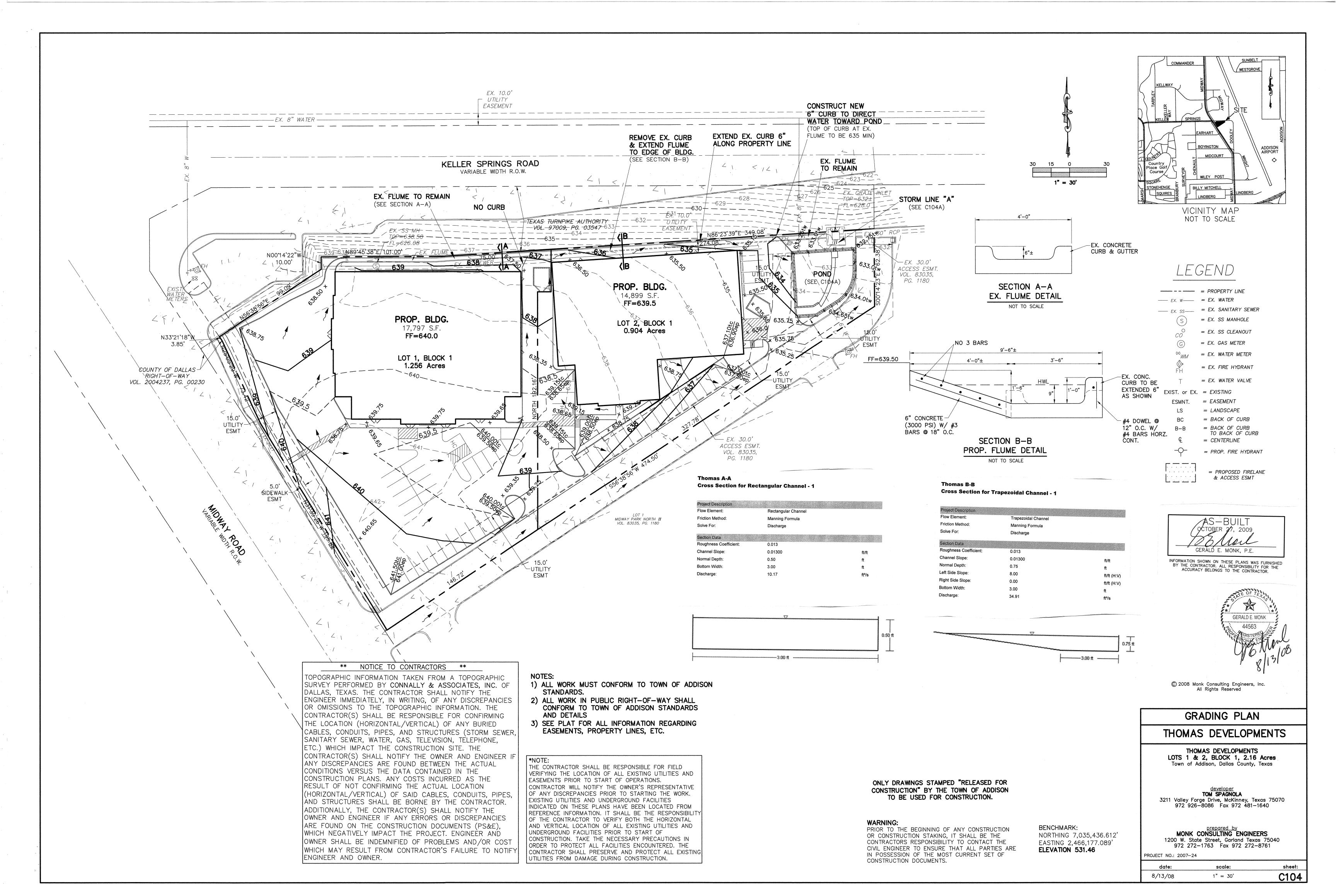
scale: sheet: 1" = 50'8/13/08

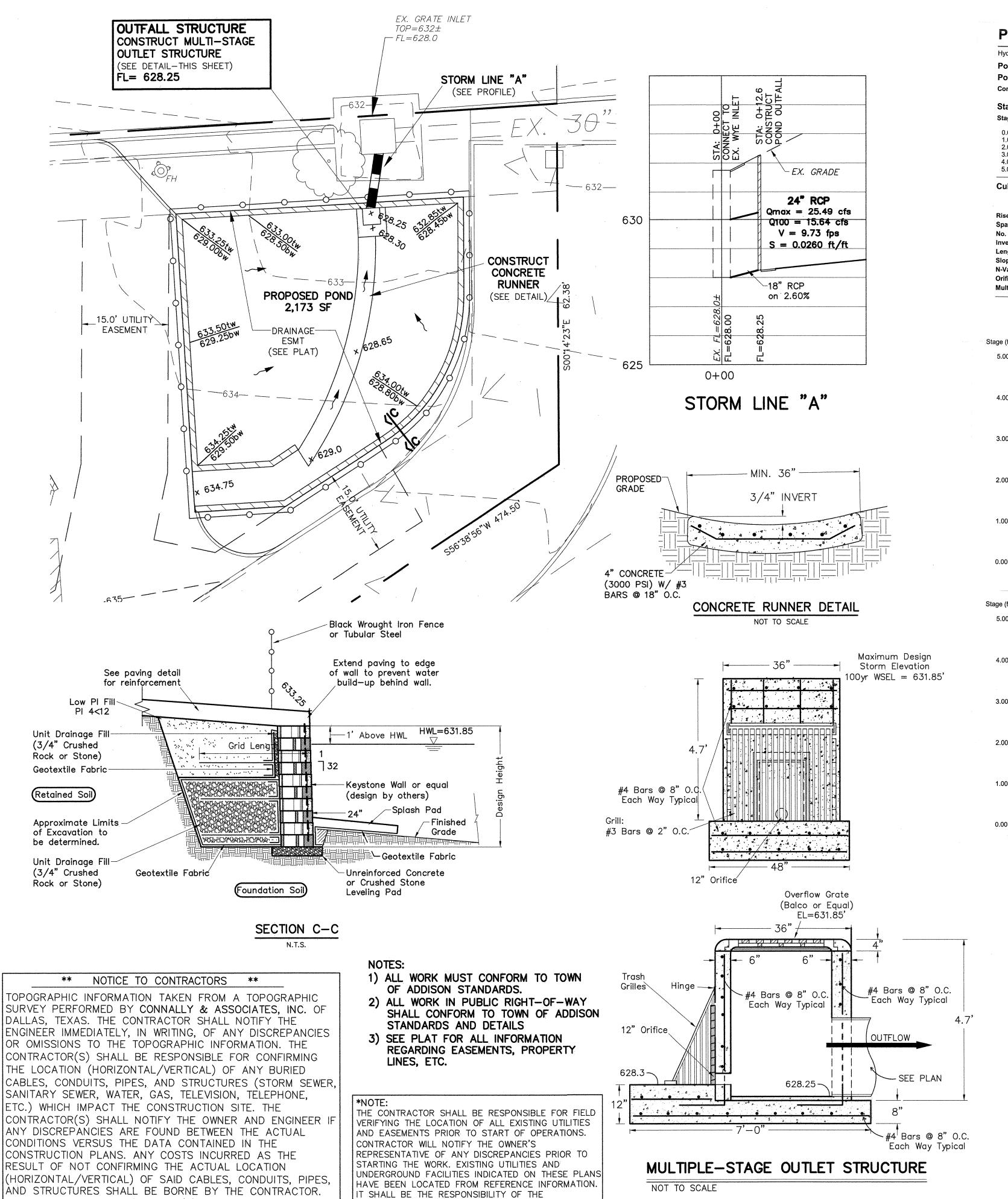
ONLY DRAWINGS STAMPED "RELEASED FOR CONSTRUCTION" BY THE TOWN OF ADDISON TO BE USED FOR CONSTRUCTION.

### **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.

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





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.

PRIOR TO THE BEGINNING OF ANY CONSTRUCTION

OR CONSTRUCTION STAKING. IT SHALL BE THE

CONTRACTORS RESPONSIBILITY TO CONTACT THE

IN POSSESSION OF THE MOST CURRENT SET OF

CONSTRUCTION DOCUMENTS.

CIVIL ENGINEER TO ENSURE THAT ALL PARTIES ARE

ADDITIONALLY, THE CONTRACTOR(S) SHALL NOTIFY THE

ARE FOUND ON THE CONSTRUCTION DOCUMENTS (PS&E),

WHICH NEGATIVELY IMPACT THE PROJECT. ENGINEER AND

ENGINEER AND OWNER.

OWNER AND ENGINEER IF ANY ERRORS OR DISCREPANCIES

OWNER SHALL BE INDEMNIFIED OF PROBLEMS AND/OR COST

WHICH MAY RESULT FROM CONTRACTOR'S FAILURE TO NOTIFY

## **Pond Report**

Hydraflow Hydrographs by Intelisolve v9.01 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

Contour area (sqft) Incr. Storage (cuft) 1,825 1,825 5,474 632.25 1.825 1,825 7,299 9,124 633.25 1,825

**Culvert / Orifice Structures** 

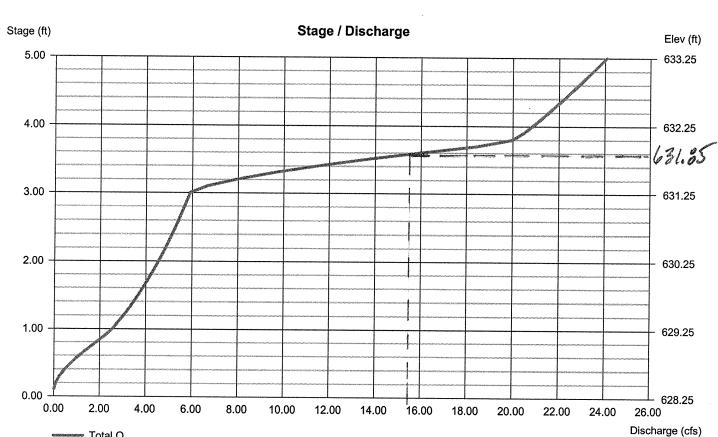
No. Barrels Invert El. (ft) = 628.25 628.30 0.00 Length (ft) = 25.00 0.00 = Yes N-Value = .013 Orifice Coeff. = 0.60 0.60 0.60 Exfil.(in/hr) = 0.000 (by Wet area) 0.60 = n/a

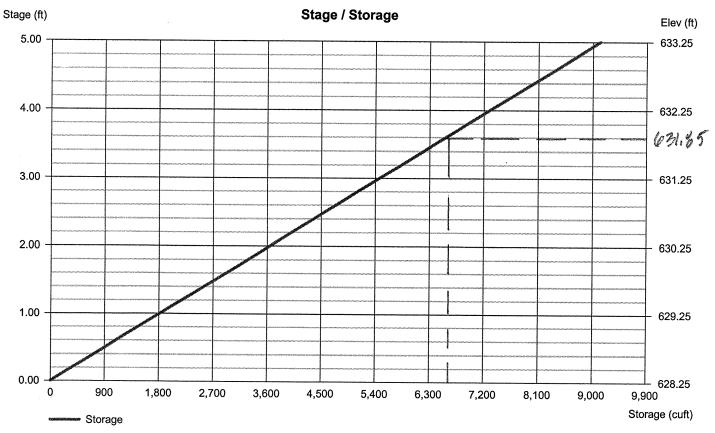
Weir Structures

TW Elev. (ft) = 0.00

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

Wednesday, Apr 16, 2008





### **Drainage/Detention Calculations** Modified Rational

A =	sting Condition 2.20	acres
C =	0.90	
Tc =	14.00	minutes
100 =	7.90	in/hr
Q =	15.64	cfs
Onsite pro	oosed Conditi	ons
Onsite prop	oosed Conditi 1.60	ons acres
Onsite prop A = C =		
A =	1.60	
A =	1.60 1.00	acres minutes

2.7

0.90

			i .					
=	5.00	minutes						
=	10.60	in/hr						
=	16.96	cfs						
					l-fl	Outflour	Storogo	I
<u>inoff per S</u>	Storm Ever	<u>nt Developed</u>	<u>d</u>		Inflow	Outflow	Storage	
ne(min.)	<b>l</b> -100yr	С	A(acres)	<b>Q</b> (cfs)	(cf)	(cf)	(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	contro
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	
					1	1	l	i

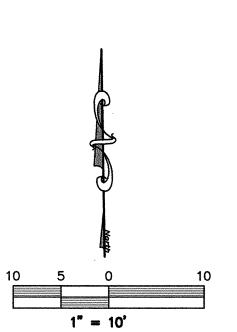
0.00

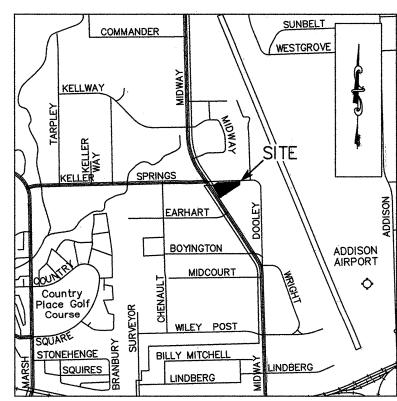
By-Pass to Existing Inlet at end of Access Street

2.2 acres to existing Street inlet

-0.6 acres to existing Street inlet

1.6 acres to pond





VICINITY MAP NOT TO SCALE

---- = PROPERTY LINE  $\longrightarrow$  EX. W—— = EX. WATER

\_\_\_ EX. SS\_\_\_ = EX. SANITARY SEWER = EX. SS MANHOLE

= EX. SS CLEANOUT

= EX. GAS METER

= EX. WATER METER

= EX. FIRE HYDRANT

= EX. WATER VALVE

EXIST. or EX. = EXISTING= EASEMENT

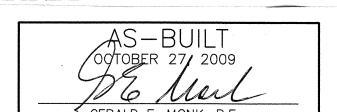
= LANDSCAPE

= BACK OF CURB

= BACK OF CURB TO BACK OF CURB

= CENTERLINE

= PROPOSED FIRELANE & ACCESS ESM



= PROP. FIRE HYDRANT

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## STORM PROFILE & POND REQUIREMENTS

## THOMAS DEVELOPMENTS

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

TOM SPAGNOLA

3211 Valley Forge Drive, McKinney, Texas 75070 972 926-8086 Fax 972 481-1640 consultant
JERRY DEFEO

> 972 240-5800 Fax 972 240-5818 MONK CONSULTING ENGINEERS

1200 W. State Street, Garland Texas 75040

1806 Eastern Hills, Garland, Texas 75043

972 272-1763 Fax 972 272-8761 PROJECT NO.: 2007-24

**BENCHMARK:** 

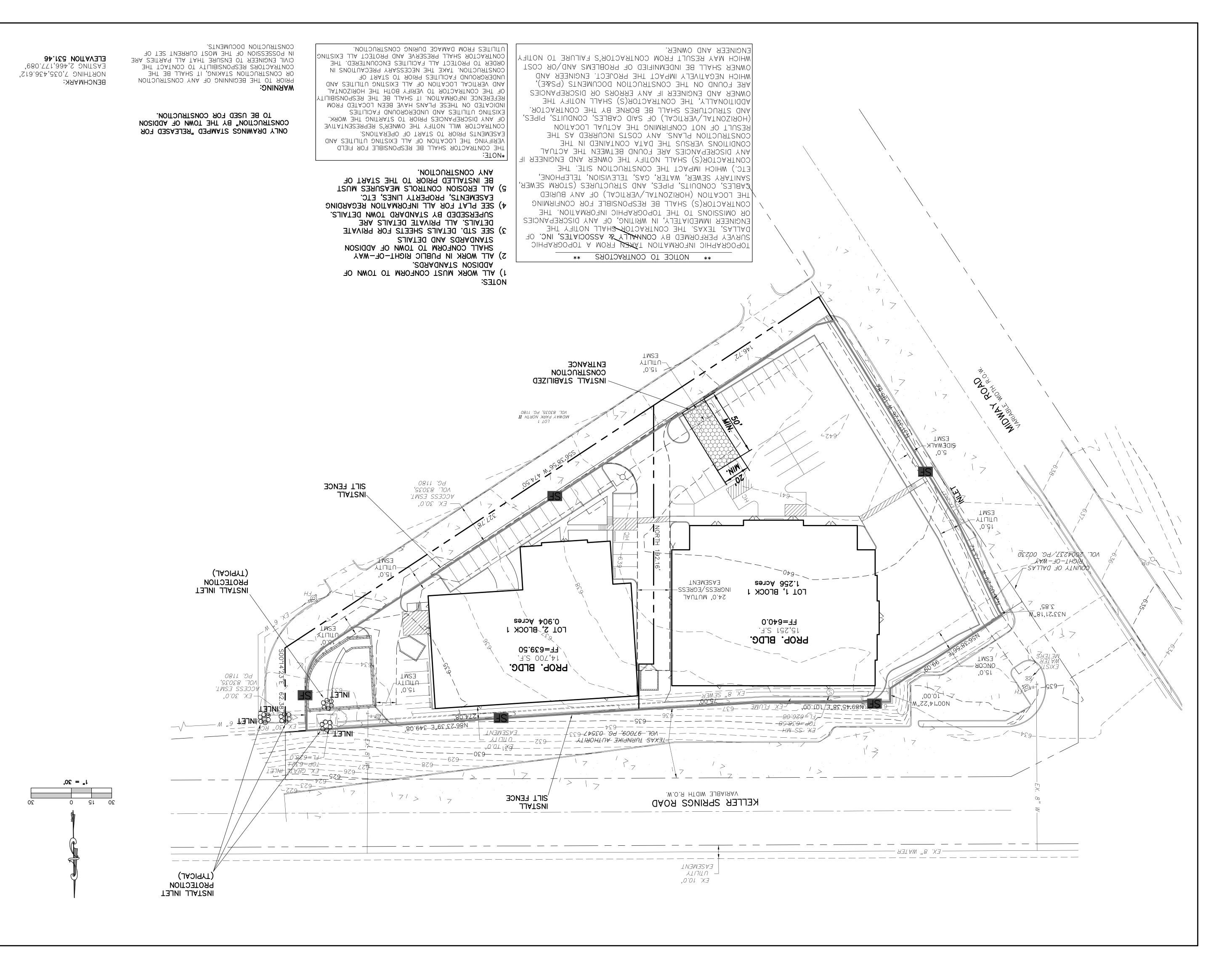
NORTHING 7,035,436.612'

EASTING 2,466,177.089'

ELEVATION 531.46

scale: sheet: 8/13/08

C104A 1" = 10'



C102

:təəys

80\21\8

date:

PROJECT NO.: 2007-24

١, = 30،

acaje:

972 272-1763 Fdx 972 272-8761

1200 W. State Street, Garland Texas 75040

WONK CONSULTING ENGINEERS

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

TOM SPAGNOLA

Town of Addison, Dallas County, Texas

LOTS 1 & 2, BLOCK 1, 2.16 Acres

THOMAS DEVELOPMENTS

NAJ9 9998

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44563

**CERALD E. MONK** 

K

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CERALD E. MONK, P.E.

OCTOBER 27, 2009

TJIU8-SA

% VCCESS ESWI
= bkoposed fikelane

= PROP. FIRE HYDRANT

TO BACK OF CURB

= CENTERLINE

 $\Gamma R = \Gamma V N D S C V b E$  E Z W N T = E V S E W E N T

EXIST. or EX: = EXISIINC

= BYCK OL CNKB = BYCK OL CNKB

= EX. WATER VALVE

= EX. FIRE HYDRANT

= EX. WATER METER

= EX. CAS METER

= EX. SS CLEANOUT

= EX: 22 WYNHOFE

— EX. SS— = EX. SANITARY SEWER

VICINITY MAP NOT TO SCALE

BILLY MITCHELL

MIDCOURT

NOSIDDA TAO9AIA  $\longrightarrow$  EX: W = EX: WATER

THOMAS DEVELOPMENTS

## SITE IMPROVEMENT PLANS

for the

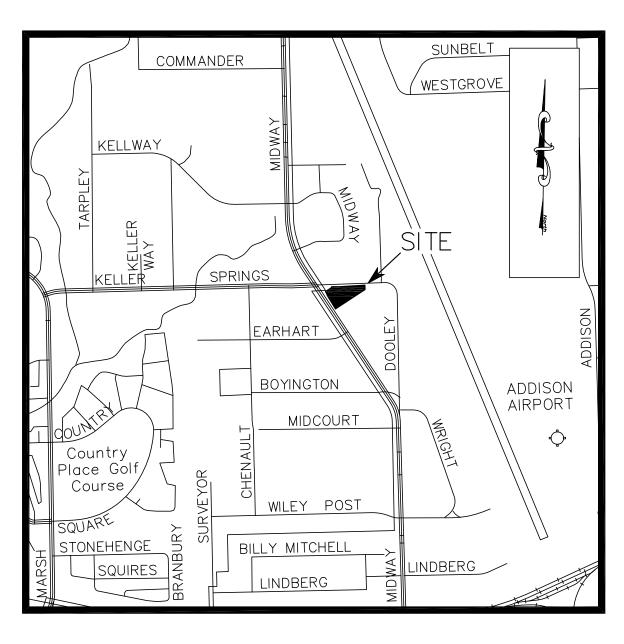
# THOMAS DEVELOPMENTS

15980 MIDWAY ROAD
2.16 Acres of the

THOMAS DEVELOPMENTS

Block 1, Lots 1 & 2

Town of Addison
Dallas County, Texas
PW #2007-016



Location Map

NOT TO SCALE

DEVELOPER:

## TOM SPAGNOLA

3211 Valley Forge Drive, McKinney, Texas 75070 (972) 926-8086 Fax (972) 481-1640

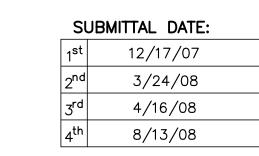
## MONK CONSULTING ENGINEERS, INC.

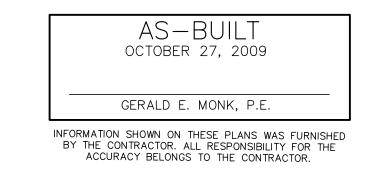
GERALD E. MONK, P.E.

1200 W. State Street ~ Garland Texas 75040 (972) 272—1763 Fax (972) 272—8761 jerry@monkconsulting.com

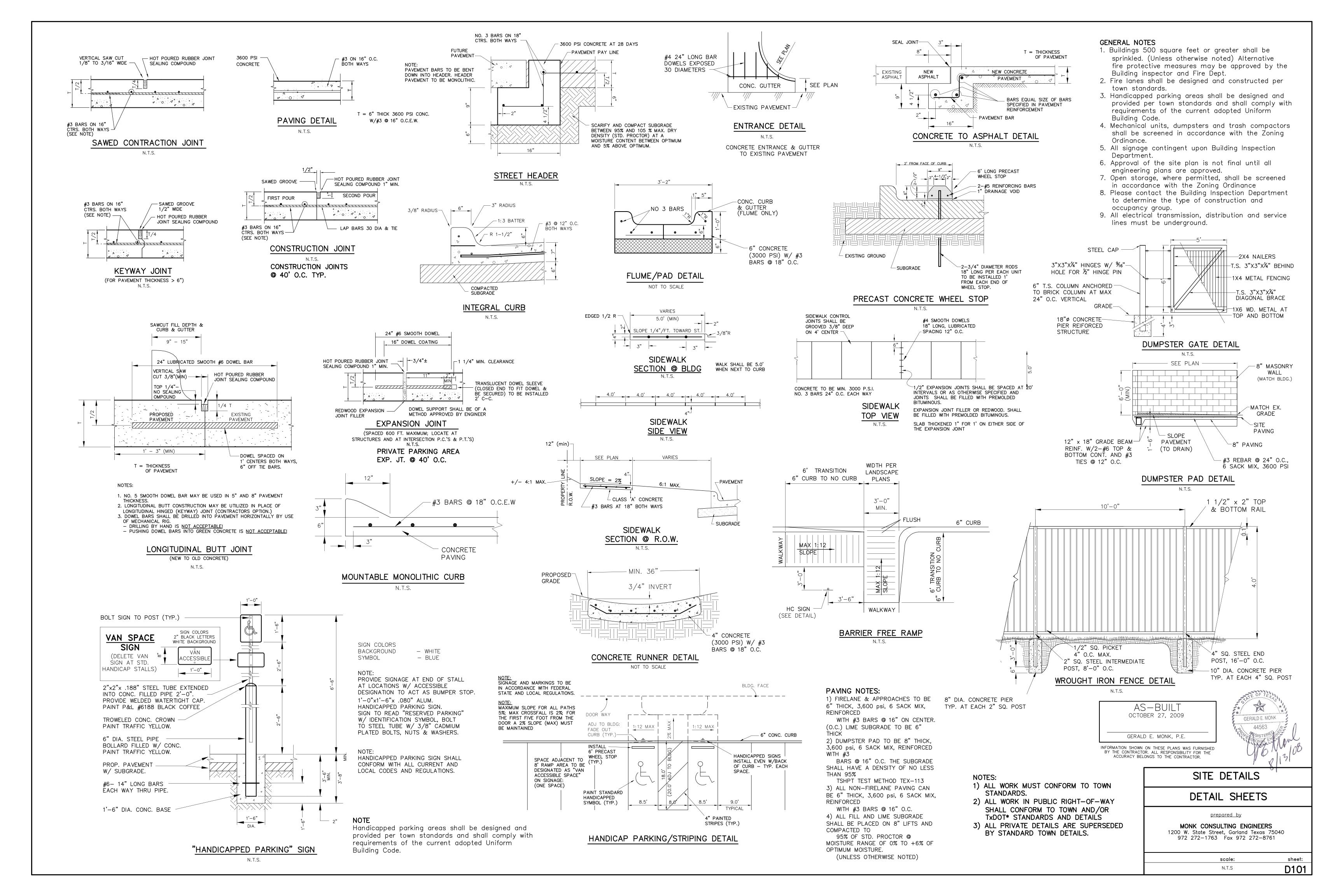
## <u>INDEX</u>

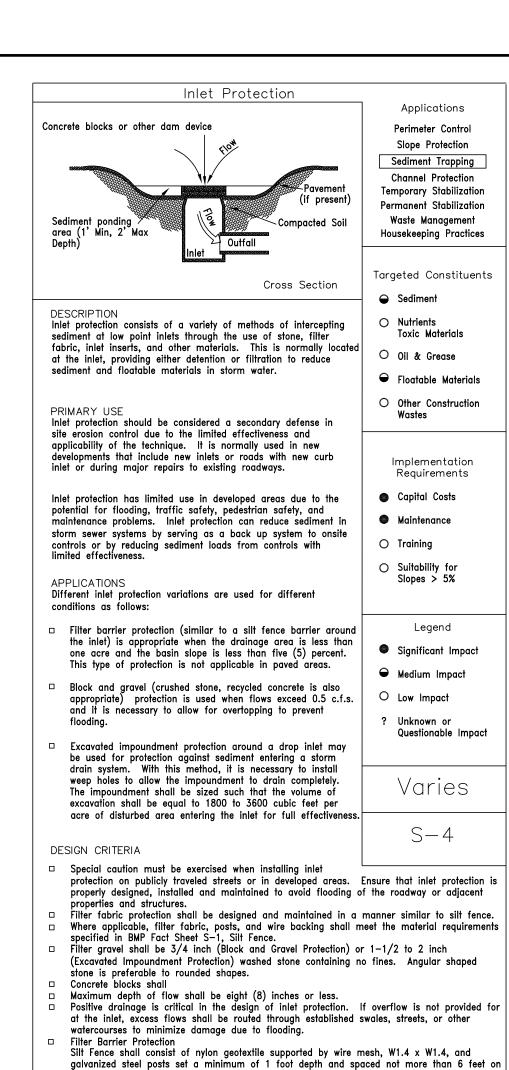
SHEET NO.	DESCRIPTION
C100	Cover Sheet Plat
C101 C102 C103 C104 C105 PL001 PL002 D101 D102	Site & Dimension Control Plan Site Utility Plan Local Drainage Area Map Grading & Drainage Plan Erosion Control Plan Landscape Plan Irrigation Plan Site Details BMP Details





NO.	REVISIONS/CORRECTIONS DESCRIPTION	REVISE(R) ADD(A) SHT. #'S	DATED
1	city plan review comments	(R) ALL	12/18/07
2	city plan review comments	(R) ALL	3/25/08





center. A 6 inch wide trench is to be cut 6 inches deep at the toe of the fence to allow the fabric to be laid below the surface and backfilled with compacted earth or gravel.

Concrete blocks are to be placed on their sides in a single row around the perimeter of

the inlet, with ends abutting. Opening in the block should face outward, not upward. 1/2" x 1/2" wire mesh shall then be placed over the outside face of the blocks covering

the holes. Filter stone shall then be piled against the wire mesh to the top of the blocks with the base of the stone being a minimum of 18 inches from the blocks. Alternatively, where loose stone is a concern (street, etc.), the filter stone may be placed

in appropriately sized geotextile fabric bags. Periodically, when the stone filter becomes clogged, the stone must be removed and cleaned in a proper manner or replaced with new

foot and a maximum depth of 2 feet as measured from the top of the inlet and shall have sideslopes of 2:1 or flatter. Weep holes are to be installed in the inlet walls to allow for the complete dewatering of the trap. When the storage capacity of the impoundment has been reduced by one—half, the silt shall be removed and disposed in a proper manner.

Inlet inserts are commercially available to remove sediment, constituents (pollutants) adsorbed to sediment, and oil and grease. Maintenance is required to remove sediment and debris that could clog the filters. Inlet inserts must have a bypass function to

LIMITATIONS
Special caution must be exercised when installing inlet protection on publicly traveled streets or in developed areas. Ensure that inlet protection is properly designed, installed and

maintained to avoid flooding of the roadway or adjacent properties and structures.

Inlet protection is only viable at low point inlets. Inlets that are on a slope connot be effectively protected because storm water will bypass the inlet and continue downstream, causing an overload condition at inlets downstream.

Construction General Permit, Appendix A). When silt fence is used and the fabric becomes

clogged, it should be cleaned or, if necessary, replaced. Also, sediment should be removed when it reaches approximately one—half the height of the inlet protection device. If a sump is used, sediment should be removed when the volume of the basin is reduced by 50%.

For systems using filter stone, when the filter stone becomes clogged with sediment, the stones must be pulled away from the inlet and cleaned or replaced. Since cleaning of stone at a construction site may be difficult, an alternative approach would be to use the clogged stone as fill material and put new stone around the inlet.

Specifications for construction of this item may be found in the Standard Specifications for Public Works Construction — North Central Texas Council of Governments, Section 201.5

s often as required by the TPDES

An excavated impoundment shall be sized to provide a storage volume of between 1800 and 3600 cubic feet per acre of disturbed area. The trap shall have a minimum depth of one

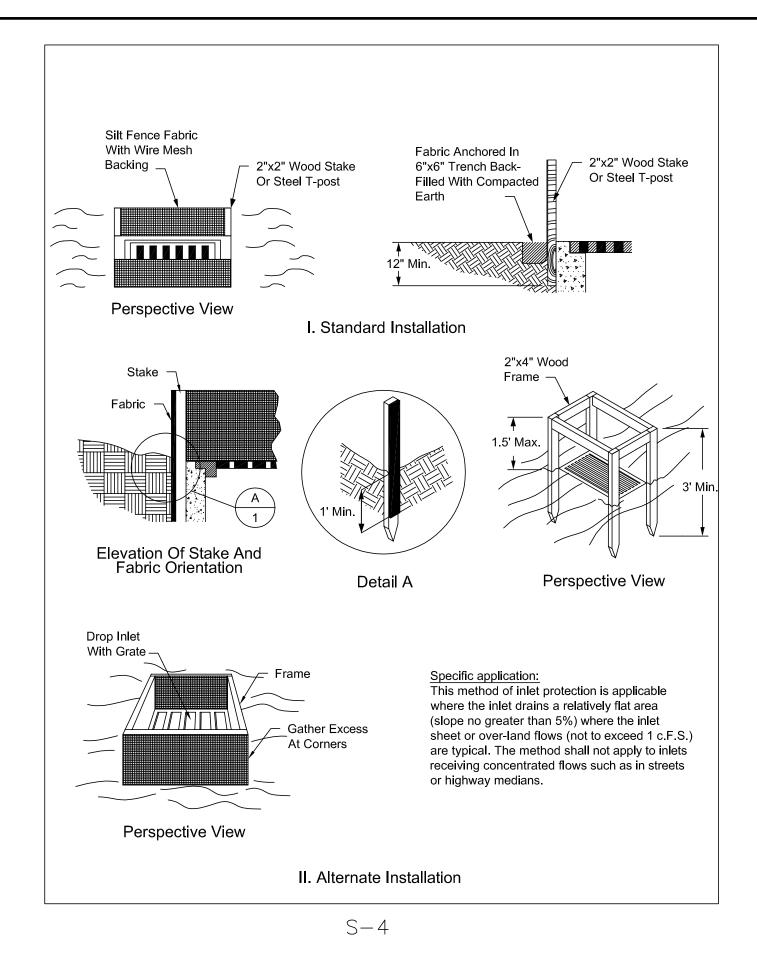
This entrenchment prevents any bypass of runoff under the fence. Block and Gravel Protection (Curb and Drop Inlets)

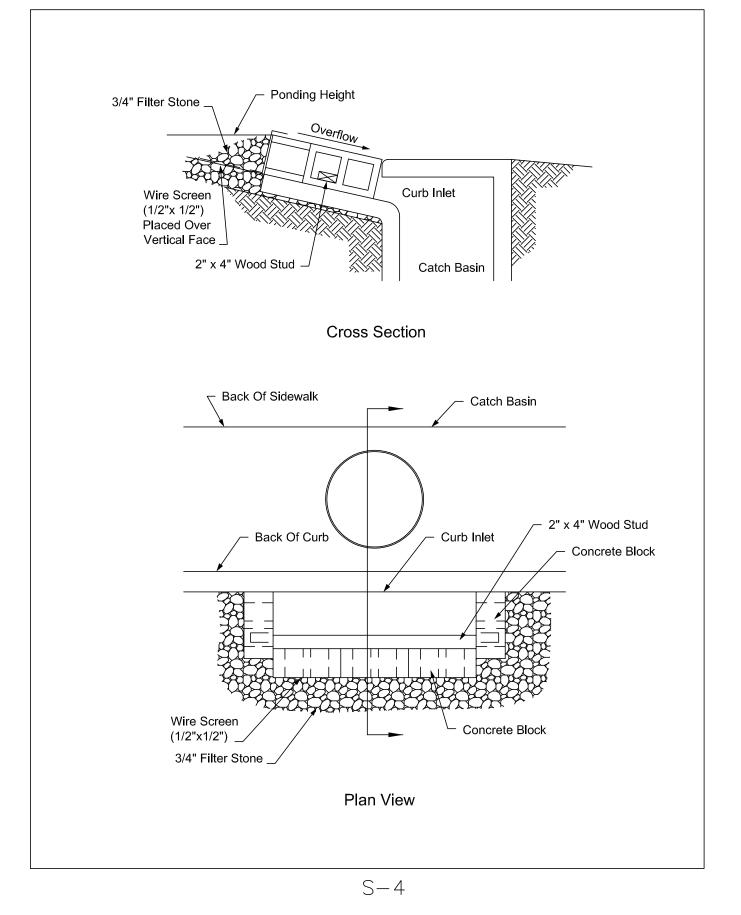
stone and piled back against the wire mesh.

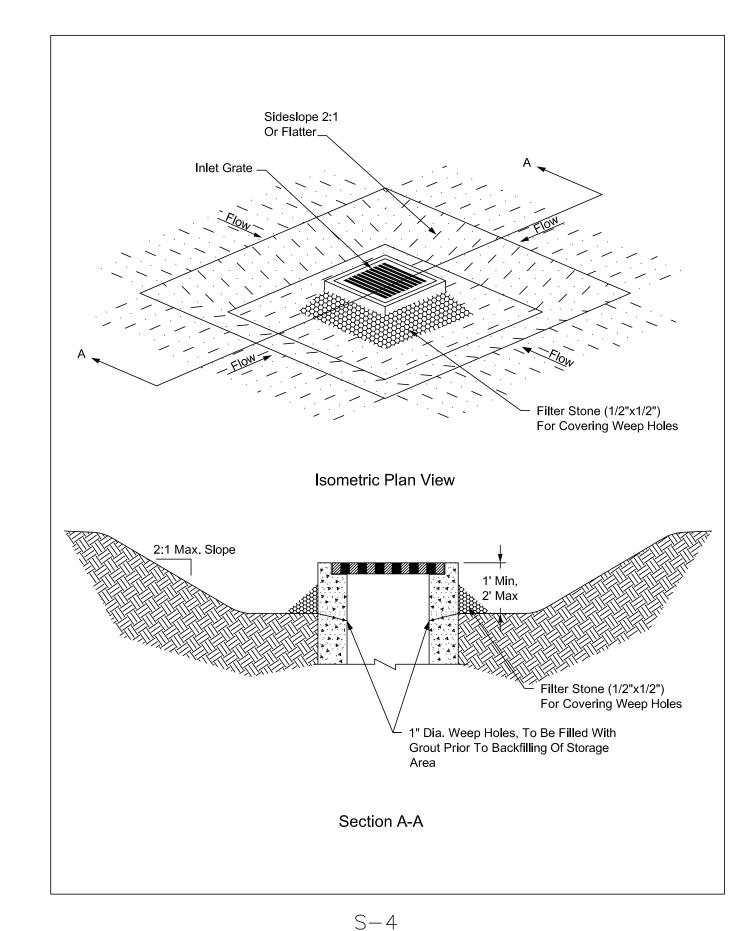
prevent flooding from clogging or high flows.

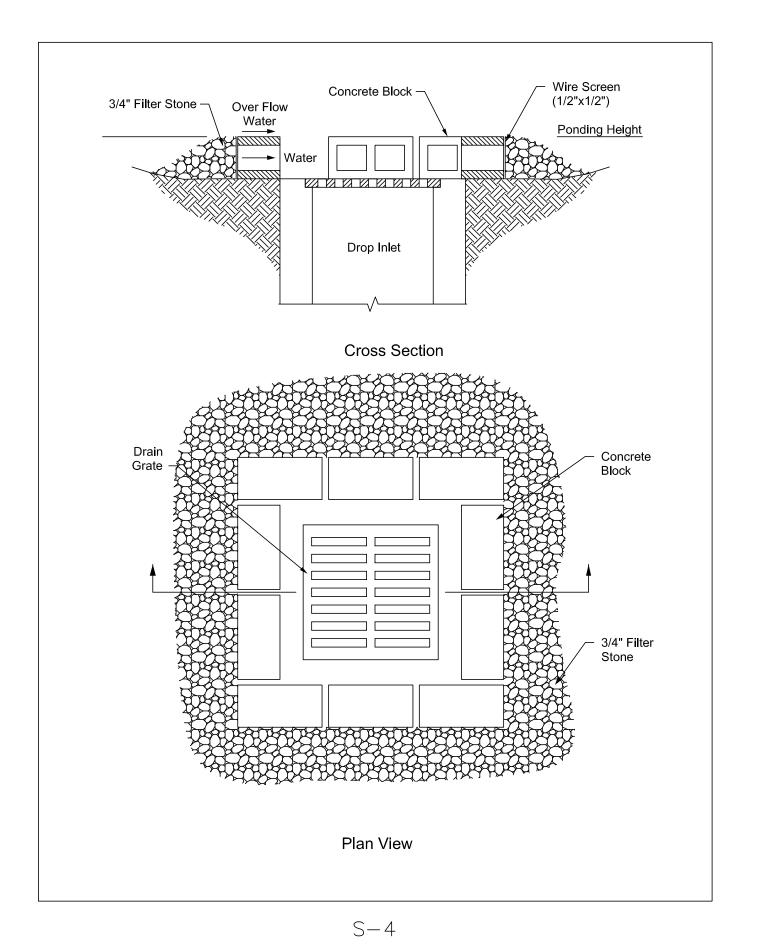
Excavated Impoundment Protection

MAINTENANCE REQUIREMENTS









AS—BUILT
OCTOBER 27, 2009

GERALD E. MONK, P.E.

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BMP DETAILS

DETAIL SHEETS

prepared by

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

scale: sheet:

N.T.S D102