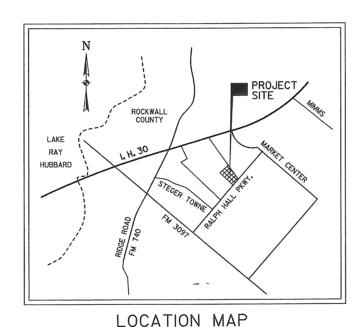
ENGINEERING CONSTRUCTION PLANS FOR

LAKE POINTE CHURCH

PARKING AND DRAINAGE IMPROVEMENTS
THE CITY OF ROCKWALL, TEXAS



ENGINEER

HALFF ASSOCIATES, INC. 8616 NORTHWEST PLAZA DR. DALLAS, TEXAS 75225 (214) 346–6200 CONTACT: B. DAVID LITTLETON, P.E.



NOT TO SCALE

ENGINEERS . ARCHITECTS . SCIENTISTS . PLANNERS . SURVEYORS



NOT AS-BUILT

APPROVED FOR CONSTRUCTION

NOV - 2 2005

City of Rockwall Engineering Dept.
City Engineer: (A)

SHEET INDEX

C0.0 COVER SHEET
C1.01 DRAINAGE AREA MAP

C2.01 GRADING AND PAVING PLAN

C3.01 STORM DRAIN PLAN
C3.02 STORM DRAIN PROFILES

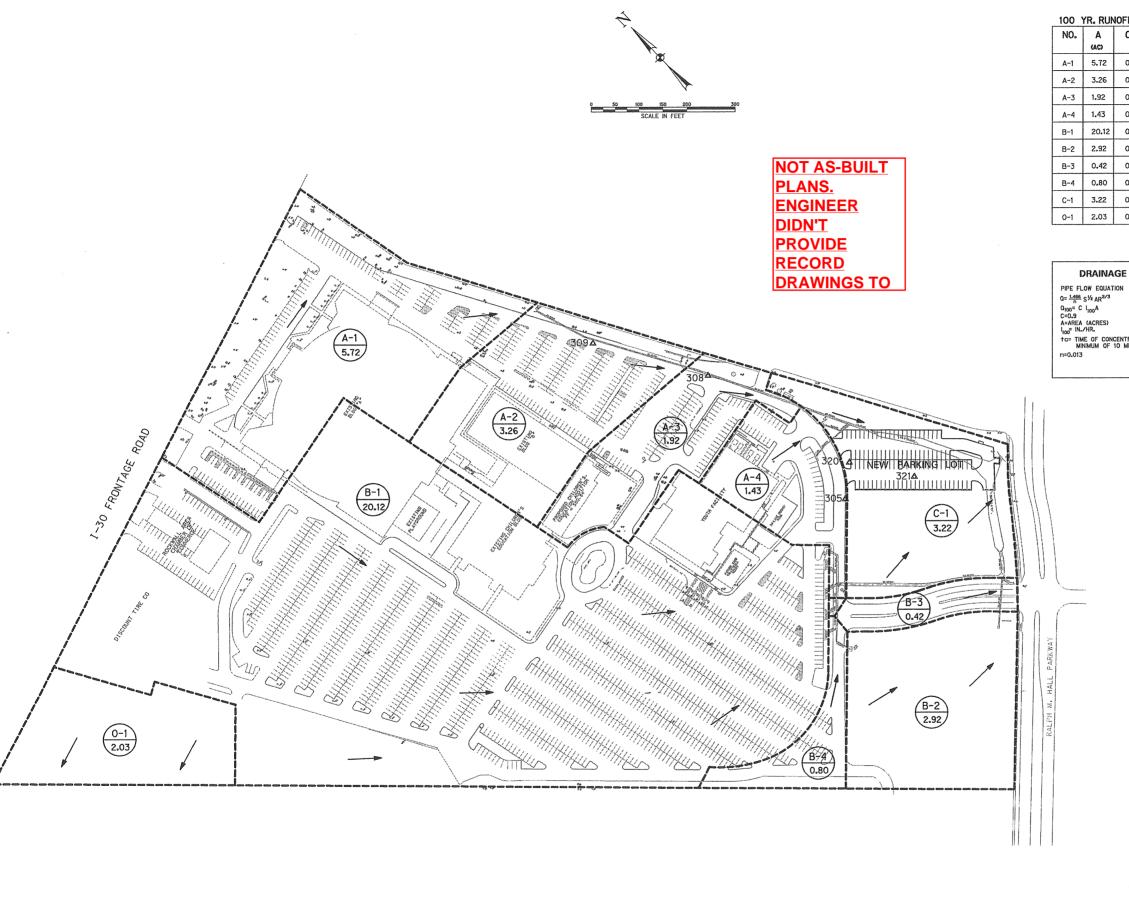
C4.01 EROSION CONTROL PLAN

C4.02 EROSION CONTROL NOTES & DETAILS



AVO 21760

AUGUST 2005



100 YR, RUNOFF CALCULATION

NO.	Α	С	Tc	1	Q
	(AC)		(min)	(In/hr)	(cfs)
A-1	5.72	0.9	14	9.0	46.33
A-2	3.26	0.9	14	9.0	26.41
A-3	1.92	0.9 1		9.3	16.07
A-4	1.43	0.9	12	9.5	12,23
B-1	20.12	0.9	19	8.3	150.30
B-2	2,92	0.9	13	9.3	24.44
B-3	0.42	0.9	13	9.3	3.52
B-4	0.80	0.9	14	9.0	6.48
C-1	3.22	0.9	12	9.5	27.53
0-1	2.03	0.9	10	9.8	17.90

DRAINAGE DESIGN CRITERIA

Q= Lime 57 AR²

Q₁₀₀F C I₁₀₀A

C=0.9

A=AREA (ACRES)
I₁₀G IN./HR.

t= TIME OF CONCENTRATION=
MINIMUM OF 10 MIN.

IMPROVEMENTS

PARKING

SOUTHEAST

POINTE

LAKE



Inc.

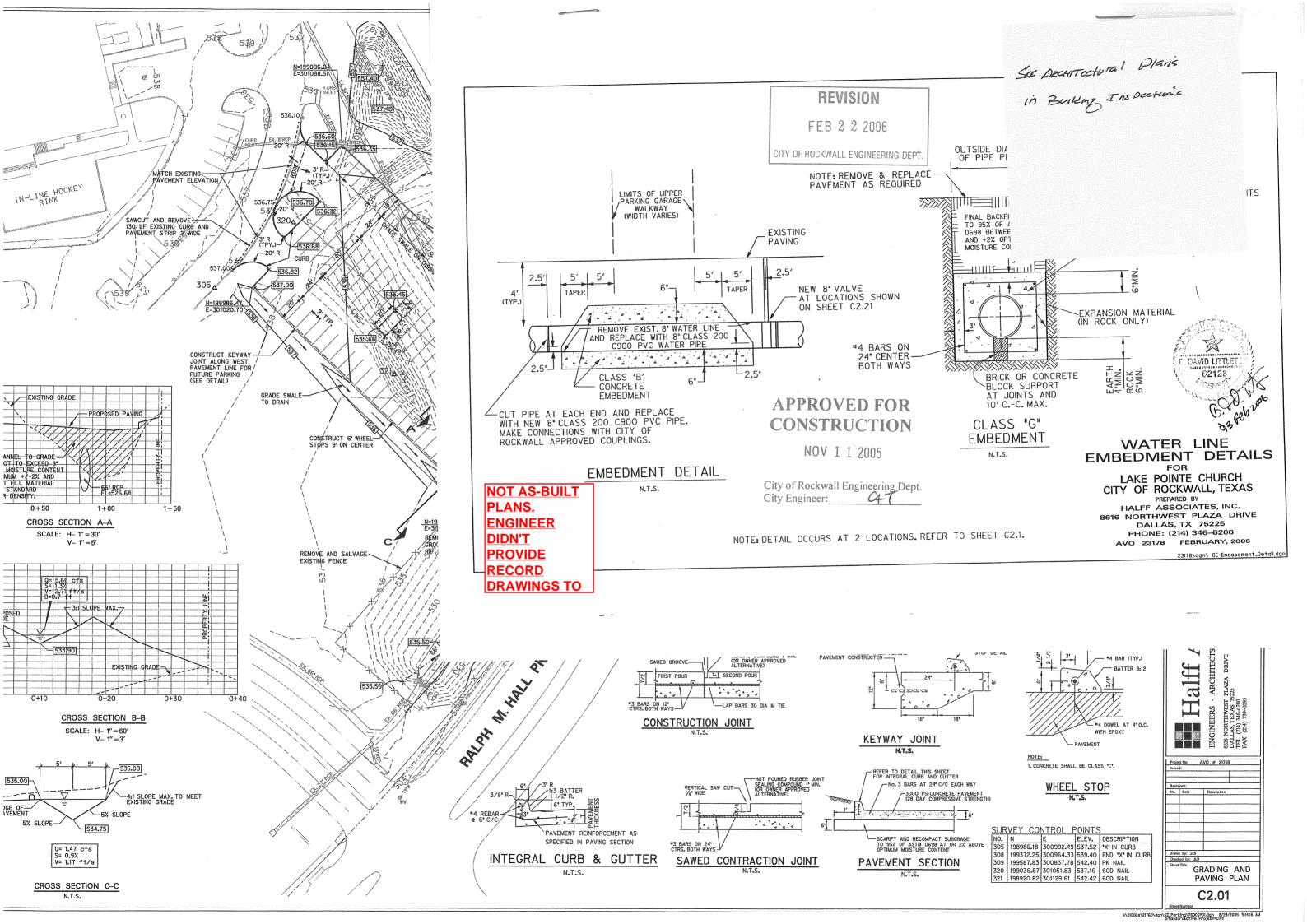
Associates,

APPROVED FOR **CONSTRUCTION**

NOV - 2 2005

City of Rockwall Engineering Dept. City Engineer:_

	355	Halff,	ENGINEERS · ARCHITECT	8616 NORTHWEST PLAZA DRIVE DALLAS, TEXAS 75225 TEL (214) 346–6200 FAX (214) 739–0095		
I	Project	t No: A	VO #	21760		
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ı		by: JLS				
ı		ed by: JLR				
-	DRAINAGE AREA MAP					
	C1.01					





PARKING SOUTHEAST

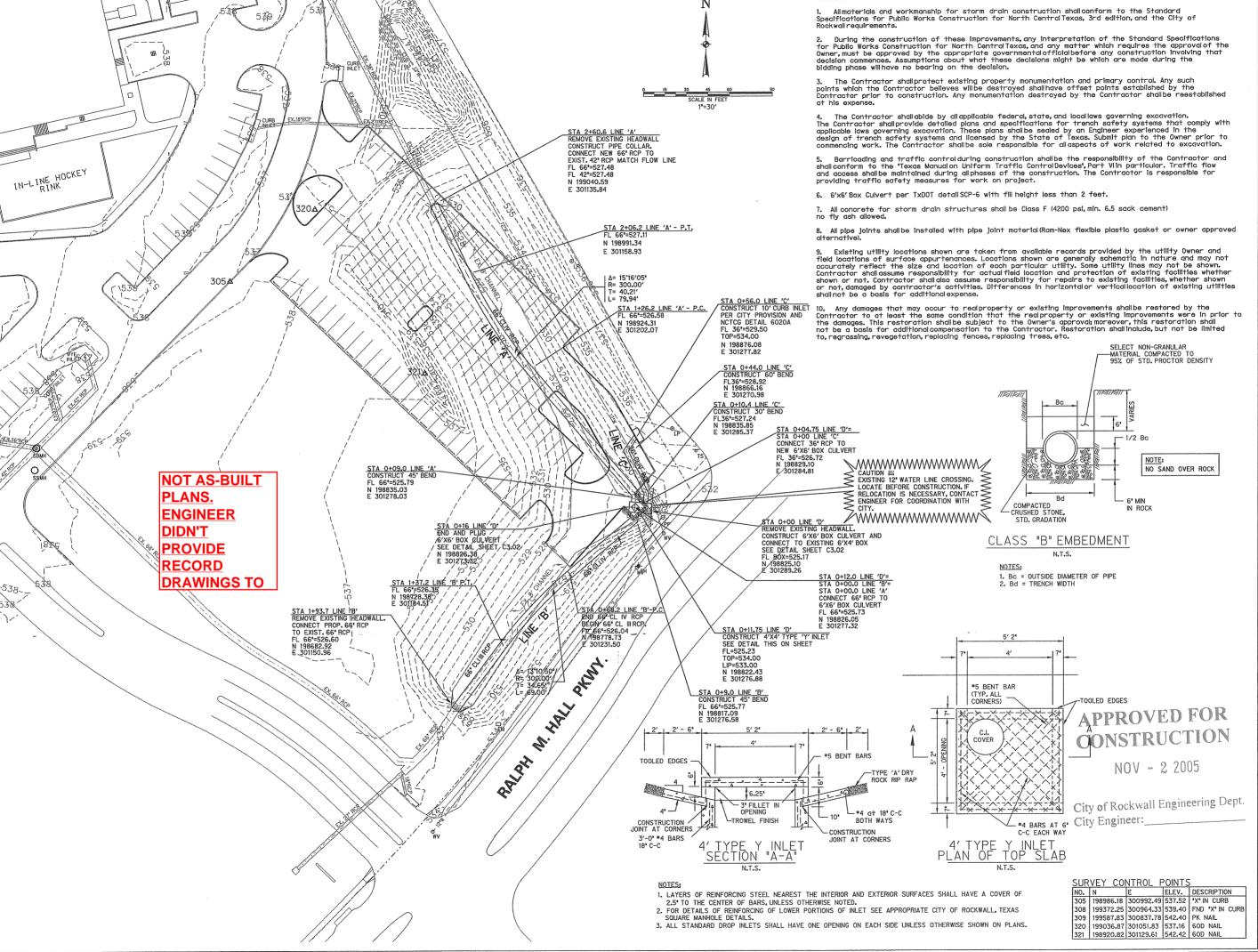
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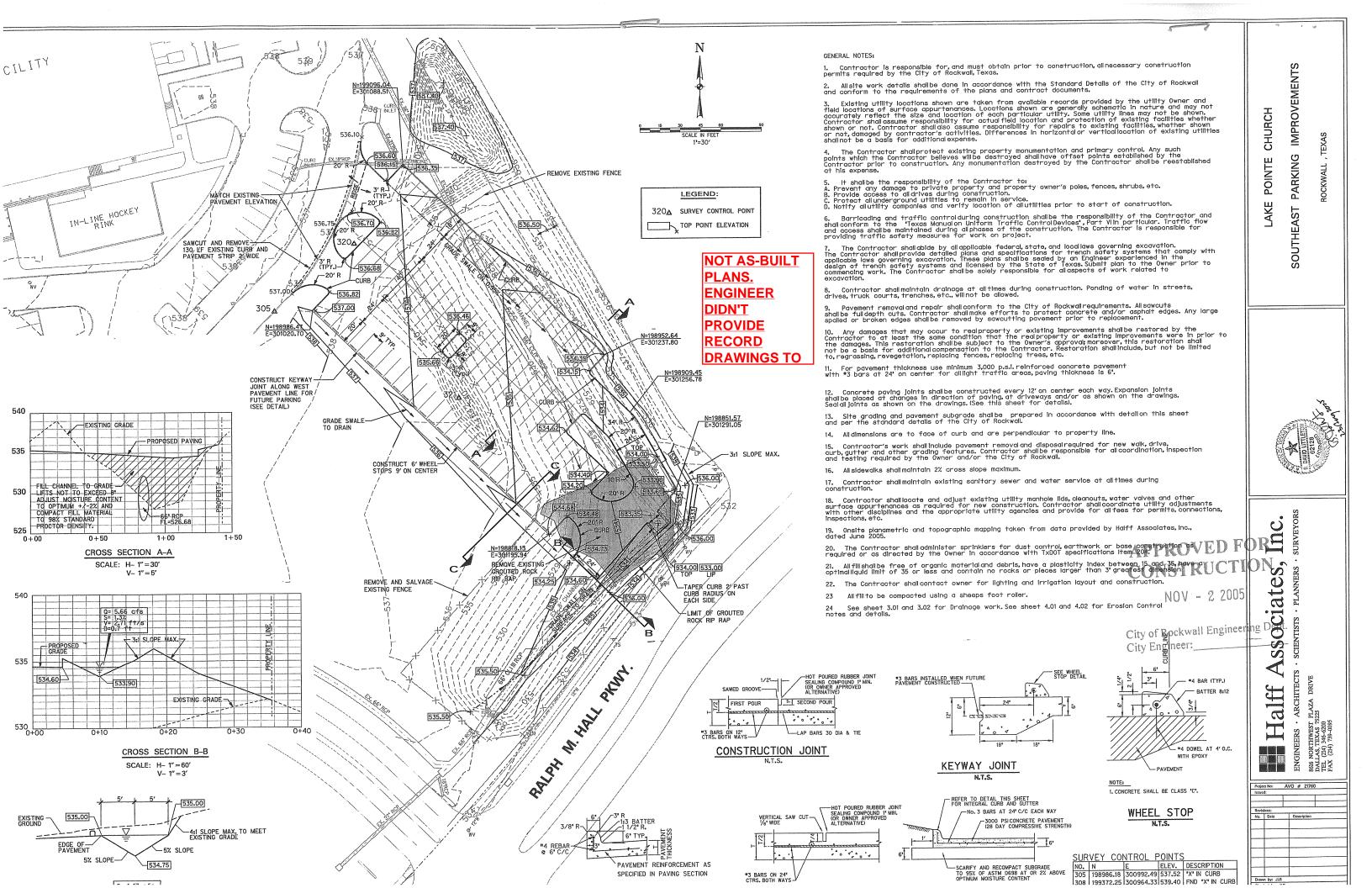
PLAZA 5225 NORTHWEST LAS, TEXAS 75 (214) 346–6200 (214) 739–0095 8616 PALL DALL TEL FAX

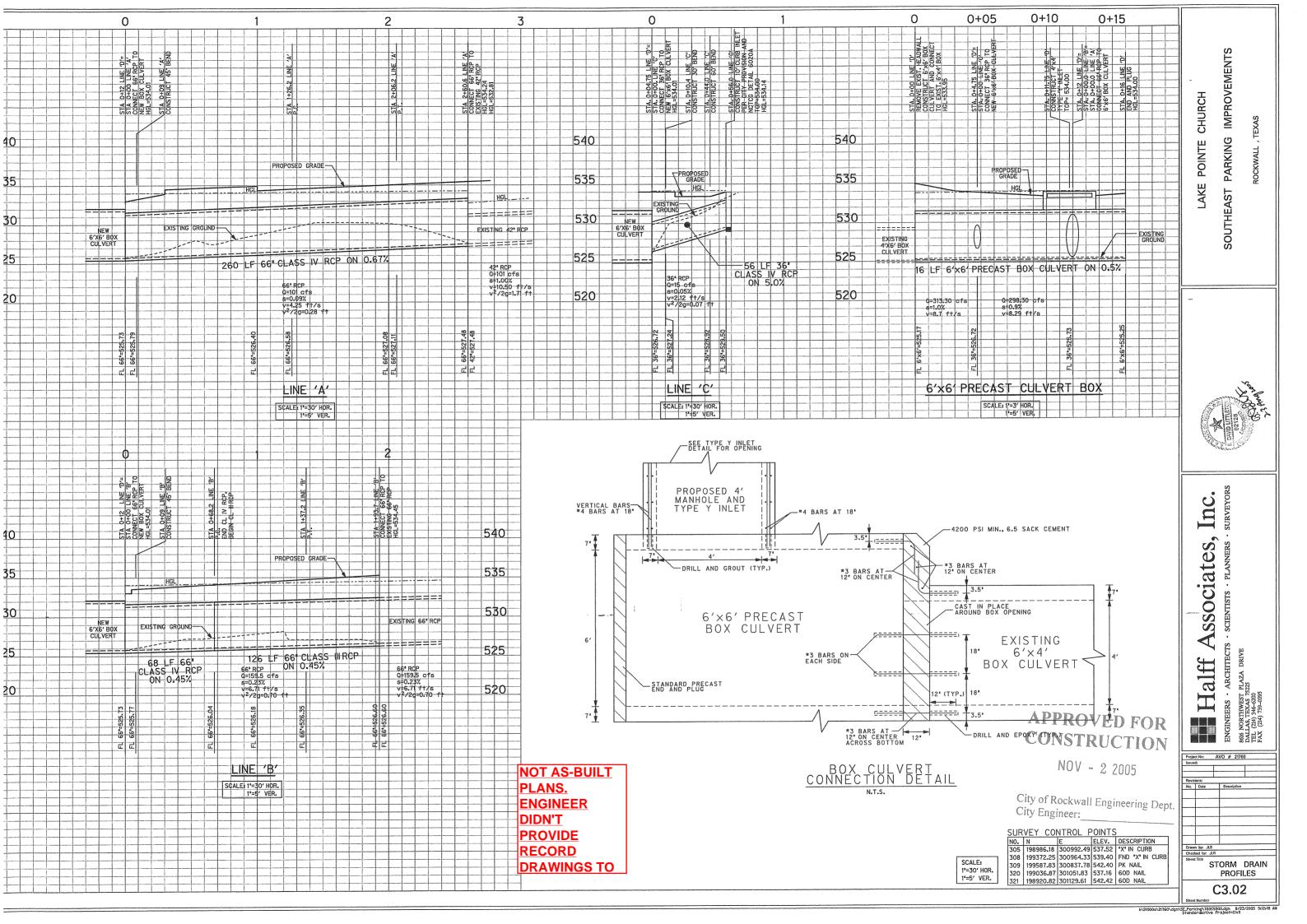
Project No: AVO # 21760

STORM DRAIN PLAN C3.01



STORM DRAIN NOTES:





PHASE II SITE UTILITIES & STORM DRAIN CONSTRUCTION

PHASE III PAVING, LANDSCAPE & IRRIGATION

PHASE IV FINAL STABILIZATION

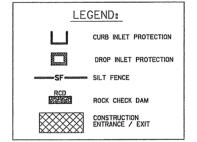
PHASE I
INSTALL EROSION CONTROLS:
SILT FENCE, STABILIZED CONSTRUCTION

PHASE II MAINTAIN EXIST. EROSION CONTROLS, INSTALL INLET PROTECTION, ADD ADDITIONAL EROSION CONTROLS AS NEEDED

PHASE III
MAINTAIN EXIST. EROSION CONTROLS, MODIFY
INLET PROTECTION TO METHOD COMPATIBLE
WITH PAYEMENT. ADD ADDITIONAL CONTROLS.
AS NEEDED FOR CONSTRUCTION ACTIVITIES.

PHASE III - CONSTRUCTION.
REPLACE SILT FENCE INLET PROTECTION
WITH BLOCK AND GRAVEL PROTECTION,
OR GRAVEL AND SCREEN INLET
PROTECTION AROUND ALL COMPLETED
STORM DRAIN INLETS ON SITE.

PHASE IV
REVEGETATE ALL DISTURBED AREAS NOT
COVERED IN THE LANDSCAPE PLAN,
ESTABLISH MIN, COVER OF 75%. TO 80%. OF
THE NATIVE BACKGROUND COVER, REMOVE
EROSION CONTROLS WHEN 75%. TO 80% MIN.
COVER HAS BEEN ESTABLISHED AND
APPROVED BY CITY OF ROCKWALL



NOTE: SEE EROSION CONTROL NOTES & DETAILS SHEET FOR DETAILS AND GENERAL NOTES, (SHEET C4.02)

PURSUANT TO THE PROJECT REQUIREMENTS THE CONTRACTOR SHALL PREPARE A STORM WATER POLLUTION PREVENTION PLAN.

POLLUTION PREVENTION PLAN.
THE DRAWINGS CONTAINED HEREIN ARE NOT,
AND SHOULD NOT BE CONSIDERED TO BE A
STORM WATER POLLUTION PREVENTION PLAN.
SHOULD THE CONTRACTOR CHOOSE TO USE
THE INFORMATION HEREIN, HE SHALL DO SO
WITH THE PROVISION THAT HE AT A MINIMUM
MEETS ALL OF THE PERMIT REQUIREMENTS
FOR CONSTRUCTION ACTIVITIES UNDER THE
TCEQ TPDES PERMIT NO.TXRISOOOO AND OTHER
APPLICABLE PERMITS, RULES, REGULATIONS
AND CODES.

CONTRACTOR SHALL ADD TO THE SITE MAP AT A MINIMUM, THE FOLLOWING AND SHALL ADD ADDITIONAL INFORMATION AS REQUIRED BY THE PERMIT:

AUJ AUJITIONAL INFORMATION AS REQUIRED
BY THE PERMIT:

1. OFF-SITE MATERIAL, WASTE, BORROW, FILL
OR EQUIPMENT.

2. AREAS DISTURBED/AREAS UNDSTURBED NOT TRUCTION
3. CONCRETE OR ASPHALT BATCH PLANTS
4. EQUIPMENT STORAGE AREAS
5. ON-SITE WASTE AND TRASH STORAGE
6. SANITARY WASTE FACILITIES
7. FUELING AREA
8. CONCRETE TRUCK WASHOUT LOCATION
9. REVISE PHASES SHOWN ABOVE AS
APPROPRIATE FOR HIS OPERATION.
CITY OF ROCKWALL ENGINEERING DEP

City of Rockwall Engineering Dept City Engineer:

THIS IS NOT A STORM WATER POLLUTION PREVENTION PLAN. THE CONTRACTOR MUST PREPARE ALL RELEVANT DOCUMENTS INCLUDING HIS OPERATION SPECIFIC INFORMATION PER THE TCEQ TPDES PERMIT NO. TXR150000, INCLUDING ALL DOCUMENTATION & CERTIFICATIONS AS REQUIRED BY THE PERMIT

SURVEY CONTROL POINTS

NO.	N	E	ELEV.	DESCRIPTION
				X IN CURB
308	199372.25	300964.33	539.40	FND "X" IN CUR
	199587.83			
320	199036.87	301051.83	537.16	60D NAIL
321	198920.82	301129.61	542.42	60D NAIL

IMPROVEMENTS CHURCH **PARKING** POINTE SOUTHEAST



SURVEYORS Inc. Associates, · SCIENTISTS · PLANNERS Halff

	Proin	et No:	A	VO # 21760	•		
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	Drawn by: JLS Checked by: JLR						
	Sheet Title						
	EROSION CONTROL						
PLAN							

C4.01

Erosion Control Notes

tor Is responsible for preparing and Storm Water Pollution Prevention Plan (SWP3) with TCEQ Texas Pollutiant Discharge tem (TPDES) Permit No. TXR150000 (PERMIT), own on this sheet represent typical methods eroslon during construction and are the Contractors guidance in preparing his inton Plan. The Contractors plan shall ePERMIT and Federal, State and local The Contractors plan shall include, but not preparation and submitted of a Notice of the TCEQ, if the project is 5 acres or sparation of all plans and documentation as in PERMIT.

tent of the Information provided on these it this Information be used as a GENERAL ie Contractor. The SWP3 to be prepared by the allmeet the current requirements set forth in IES general permit for storm water discharges it is steady as well as any local requirements.

that sites as well as any local requirements. It is shall be responsible for maintaining any truction related drainage permits, or making ion related notifications. An inspection ummarizes inspection activities and of the SWP3 shall be performed as required and retained by the Contractor and made a construction documents. The Contractor shall of all SWP3 documents including, but not ection records, original plans, and to the Owner at contract close-out. During the Contractor shall provide copies of his n reports to the Owner.

storm drainage and/or erosion control

suitable for this specific project and
id in accordance with proper techniques by
ir as shown in the North Central Texas Council
is 'integrated STORM WATER MANACEMENT (ISWM)
'or Construction' and applicable
s specifications. Temporary storm drainage
o controlmaterial shallbe removed by the
accordance with NCTCOC Standard
for Public Works Construction when temporary
oldevices are no longer required as specified
Maintenance of the permanent erosion control
he site willbe assumed by the Owner at
3-out, acceptance of the work, and after
loation and training is provided by Contractor
connel.

otor shall maintain his SWP3 in accordance TPDES Permit and make his SWP3 available, to the inspectors of the TCEQ, EPA, Local MS4

otor must amend his SWP3 whenever there is a ign, construction, operation, or maintenance ir when existing SWP3 erosion controls become adifications shallnot compromise the intent ements of the PERMIT. Modifications including additional materials and work shallbe by the Contractor at no additional expense to

ctor shall inspect his stabilization and almeasures at a minimum of once every 14 in 24 hours after any storm event greater s, or once every 7 days. The Contractor idequacles revealed by the inspection before m event and he shall modify his SWP3 within 7 nspection.

otor shall adopt and implement appropriate site management practices to prevent the olls, grease, paints, gasoline, and other storm water systems or surface waters. ractices shall include, but not be limited to: eas for equipment maintenance and repair; tes maintaining conveniently located waste and designating and controlling equipment

d areas shall be revegetated by the ion completion of final grading. This includes embankments. The Contractor shall maintain nd keep revegetated areas watered until ed and accepted by Owner.

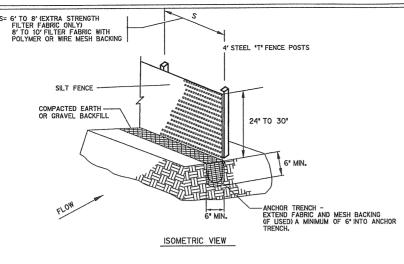
ctor shall construct a sllt fence at ested on plans as appropriate or as modified fit site conditions at the time of all borrow and stock pile areas. The sllt constructed as detailed on this plan. The collremove accumulated sllt when it reaches a the height of the sllt fence. The Contractor f the removed sllt at a location approved by in such a manner as to not contribute to edimentation. The Contractor shall remove asion controls when the site finally stabilized the PERMIT.

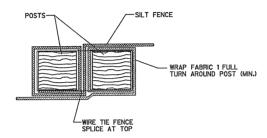
ctor shall designate material and equipment; mutually agreed to by the Owner. The storage graded for positive drainage, and the lized with a minimum of 2 inches of compacted 6 inches of scarlfed and recompacted subgrade ictor. A slit fence and/or other erosion be installed by the Contractor around the; to prevent eroded material from leaving the

isite and offsite) receiving drainage isturbed areas shallbe protected by the per details shown or other Owner approved revent eroded material from being transported

and details contained herin do not relieve or and Owner of meeting and implementing the of the PERMIT.

STORM WATER POLLUTION PREVENTION PLAN. THE ST PREPARE ALL RELEVANT DOCUMENTS INCLUDING SPECIFIC INFORMATION PER THE TCEQ TPDES PERMIT CLUDING ALL DOCUMENTATION & CERTIFICATIONS AS E PERMIT.



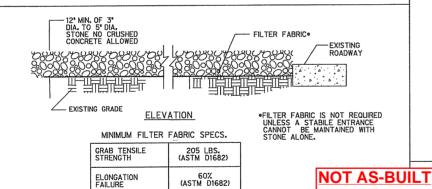


FENCE SPLICED DETAIL PLAN VIEW

SILT FENCE GENERAL NOTES:

- THE BOTTOM OF THE SILT FENCE SHALL BE SET IN ANCHOR TRENCH PER THE DETAIL.
 WHERE THE SILT FENCE CANNOT BE ANCHORED IN A TRENCH (E.G. PAVEMENT),
 SILT FENCE SHALL BE ANCHORED DOWN WITH WASHED GRAVEL.
- 2. AT SPLICES IN THE SILT FENCE, THE SILT FENCE SHALL BE WRAPPED AROUND EACH END POST, ONE FULL TURN, POSTS DRIVEN ADJACENT TO EACH OTHER WITH THE TOPS OF THE POSTS SECURED TIGHTLY TOGETHER WITH WIRE TO PREVENT SEDIMENT FLOWING THROUGH THE SPLICED JOINT.
- 3. SILT FENCE SHALL BE SECURELY FASTENED TO EACH SUPPORT POST.
- 4. ACCUMULTED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 1/3 THE HEIGHT OF THE SILT FENCE OR AS NECESSARY TO MAINTAIN THE SILT FENCE IN GOOD OPERATING ORDER, THE SILT SHALL BE DISPOSED OF ON AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.
- 5. SILT FENCE AND OTHER SEDIMENT CONTROLS SHALL BE MAINTAINED PER THE REQUIREMENTS OF THE PERMIT AND IT SHALL BE REMOVED AS REQUIRED BY THE PERMIT AT COMPLETION.

SILT FENCE DETAIL N.T.S

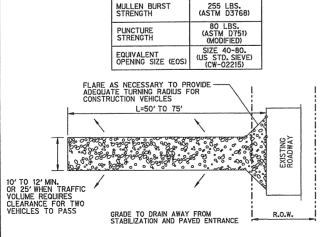


PLANS.

DIDN'T

PROVIDE

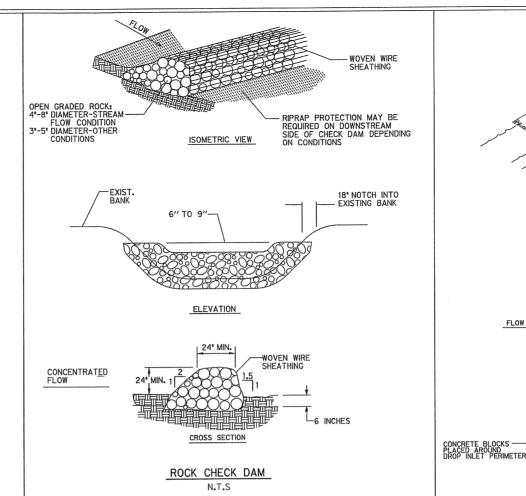
RECORD

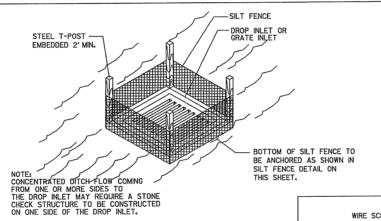


PLAN VIEW

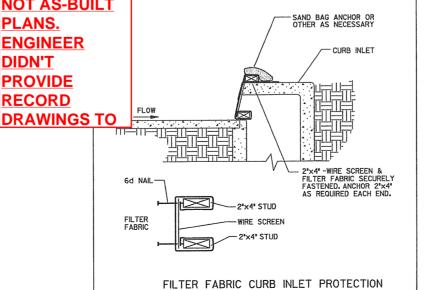
STABILIZED CONSTRUCTION ENTRANCE

N.T.S





SILT FENCE DROP INLET PROTECTION



N.T.S

GRAVEL FILTER PLACED TO TOP OF CONCRETE BLOCKS *GRAVEL GRADATION 100% PASSING 1* SIEVE, 95% RETAINED ON 1/2* SIEVE. 2"x4" WOOD STUD EXTENDED -INTO CONCRETE BLOCKS CONCRETE BLOCKS -CONCRETE BLOCK FILTER

COMBINATION OR CURB INLET FILTER DETAIL

CROSS-SECTION AA

OVERELOW

COMBINATION INLET-OR CURB INLET

PAVEMENT ---

APPROVED FO **CONSTRUCTIO** NOV - 2 2005

City of Rockwall Engineering City Engineer:

IMPROVEMENTS CHURCH POINTE **PARKING** LAKE SOUTHEAST

GRAVEL FILTER -- CONCRETE BLOCK

WIRE SCREEN

CONCRETE BLOCKS

SECTION AA

CONCRETE BLOCK FILTER

N.T.S

2"x4" WOOD STUD

OVEREL OW

FLOW

Inc.

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C4.02

li\21000s\21760\dgn\SE_ParkIng\760CER02.dgn 8/18/2005 11x48:56 AN Standardative Project=Civil

AREA INLET WITH GRATE NOTE: GRAVEL FILTERS MAY BE USED ON PAVEMENT OR BARE GROUND GRATE INLET FILTER DETAIL

*
GRAVEL FILTER (APPROXIMATELY
¾* DIAMETER) PLACED TO
TOP OF CONCRETE BLOCKS

100% PASSING 1" SIEVE 95% RETAINED ON 1/2" SEIVE.

PLAZA 5225

EROSION CONTROL NOTES & DETAILS