CONSTRUCTION PLANS FOR

WHITMORE MANUFACTURING PHASE I EXPANSION 1250 JUSTIN ROAD

15.306 ACRES CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS MAY 2012

ARCHITECT



3737 MAPLESHADE LANE PLANO, TEXAS 75075 972-331-5699 WWW.JACOBSONLINE.COM

OWNER



930 WHITMORE DRIVE ROCKWALL, TEXAS 75087 972-771-1000 WWW.WHITMORES.COM

CONSTRUCTION MANAGER



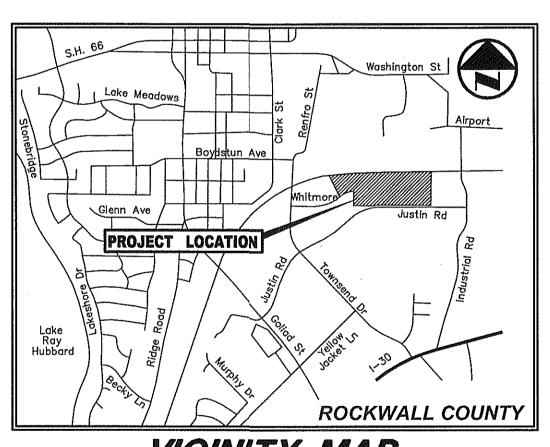
4500 W. ELDORADO PARKWAY McKINNEY, TEXAS 75070 214-544-9080 WWW.CYMCOR.COM

PREPARED BY

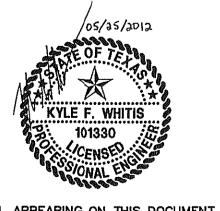


8350 N. CENTRAL EXPWY., SUITE 1000 DALLAS, TEXAS 75206 TX REG. ENGINEERING FIRM F-469 TX REG. SURVEYING FIRM LS-100080-00

PH. 972.235.3031 FAX 972.235.9544



VICINITY MAP (NOT TO SCALE)



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KYLE F. WHITIS, P.E. 101330 ON 05/25/2012. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

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RECORD DRAWING

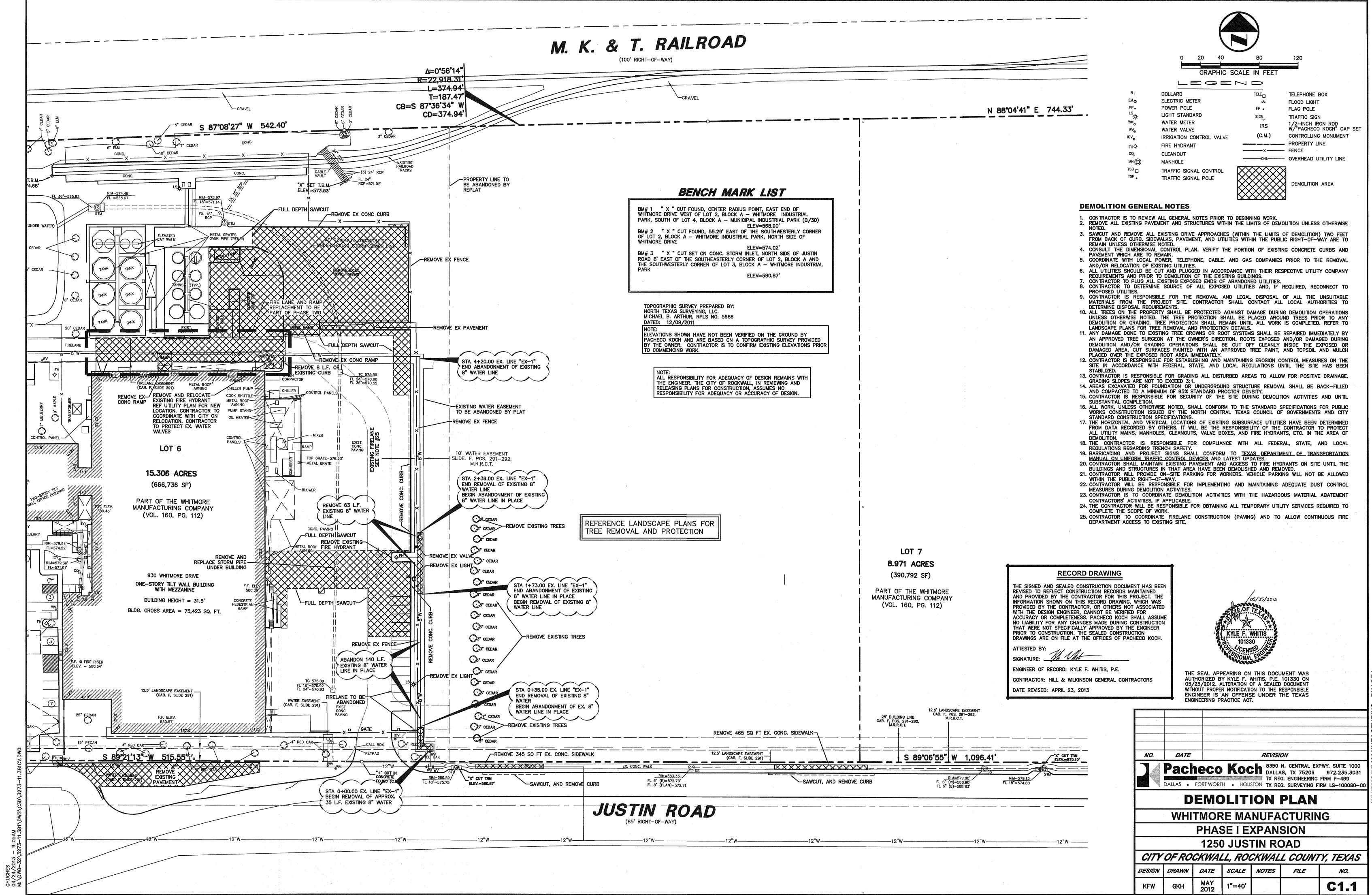
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CONTRACTOR: HILL & WILKINSON GENERAL CONTRACTORS DATE REVISED: APRIL 23, 2013

ENGINEER OF RECORD: KYLE F. WHITIS, P.E.

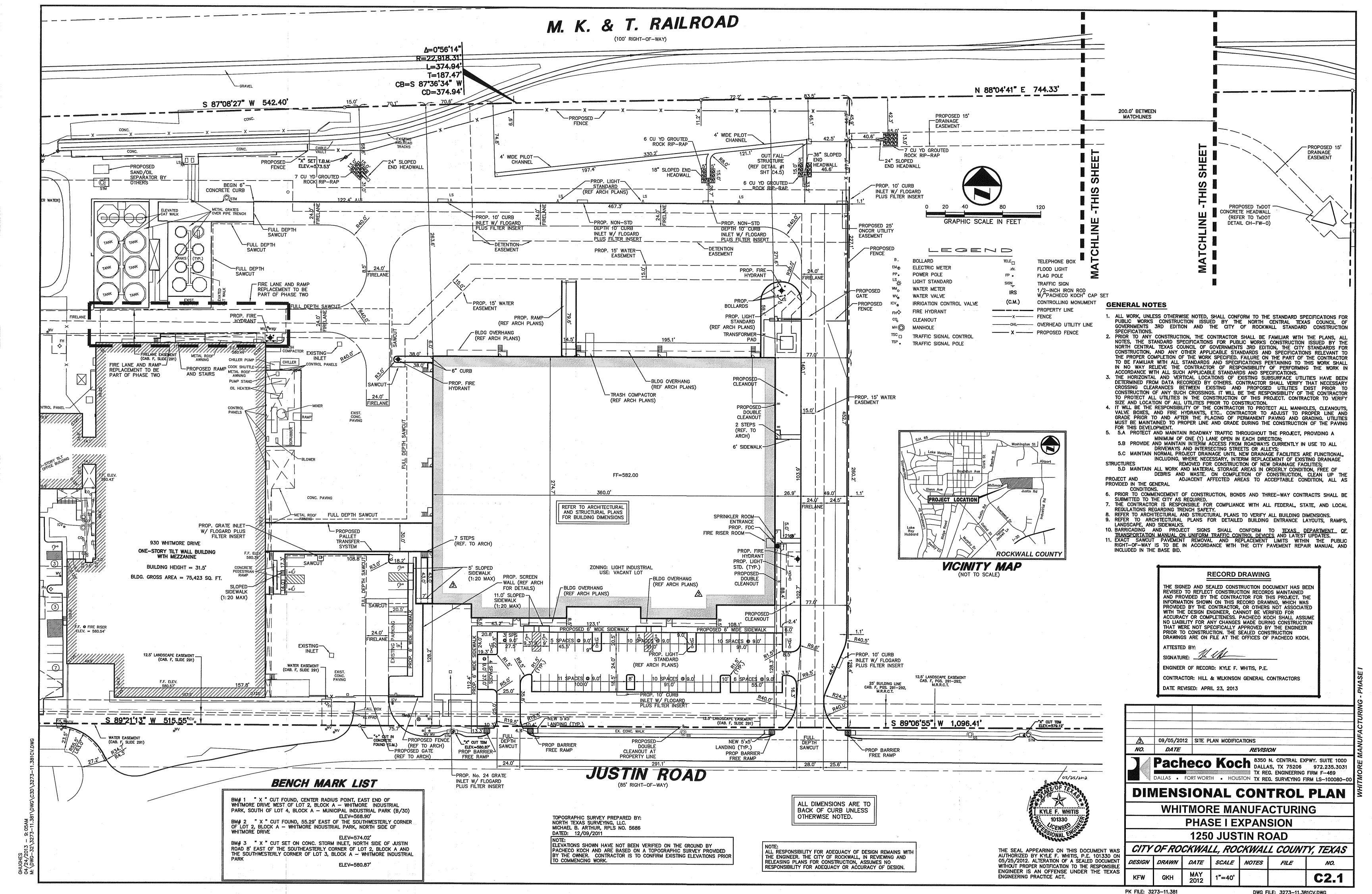
NO	DATE	REVISION
<u> </u>	07/02/2012	REVISED FIRE LEAD PER MEP
A	09/05/2012	SITE PLAN MODIFICATIONS
A	09/05/2012	SITE PLAN MODIFICATIONS
A	10/17/2012	REVISED MEP DRAWINGS
A	10/31/2012	REVISED GRADING
Æ		REVISED GRADING

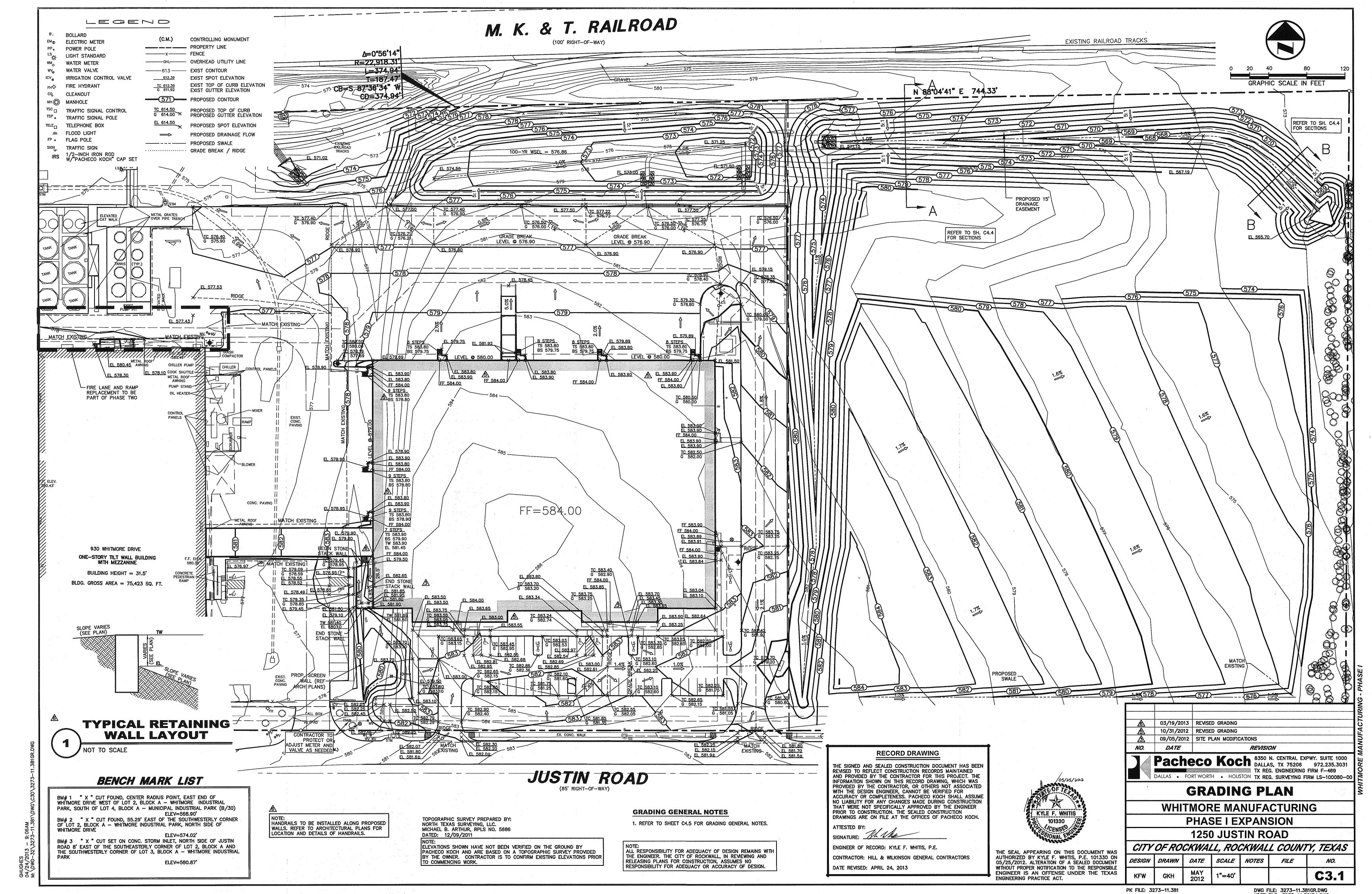
NO. DATE DWG FILE: 3273-11.381CV.DWG XREF FILE: 3273-11.381SU.DWG



DWG FILE: 3273-11.381CV.DWG

PK FILE: 3273-11.381





GRAPHIC SCALE IN FEET

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CONTRACTOR: HILL & WILKINSON GENERAL CONTRACTORS

GRADING GENERAL NOTES

1. REFER TO SHEET C4.5 FOR GRADING GENERAL NOTES.

REVISION Pacheco Koch 8350 N. CENTRAL EXPWY. SUITE 1000 DALLAS, TX 75206 972.235.3031

WHITMORE MANUFACTURING

PHASE I EXPANSION

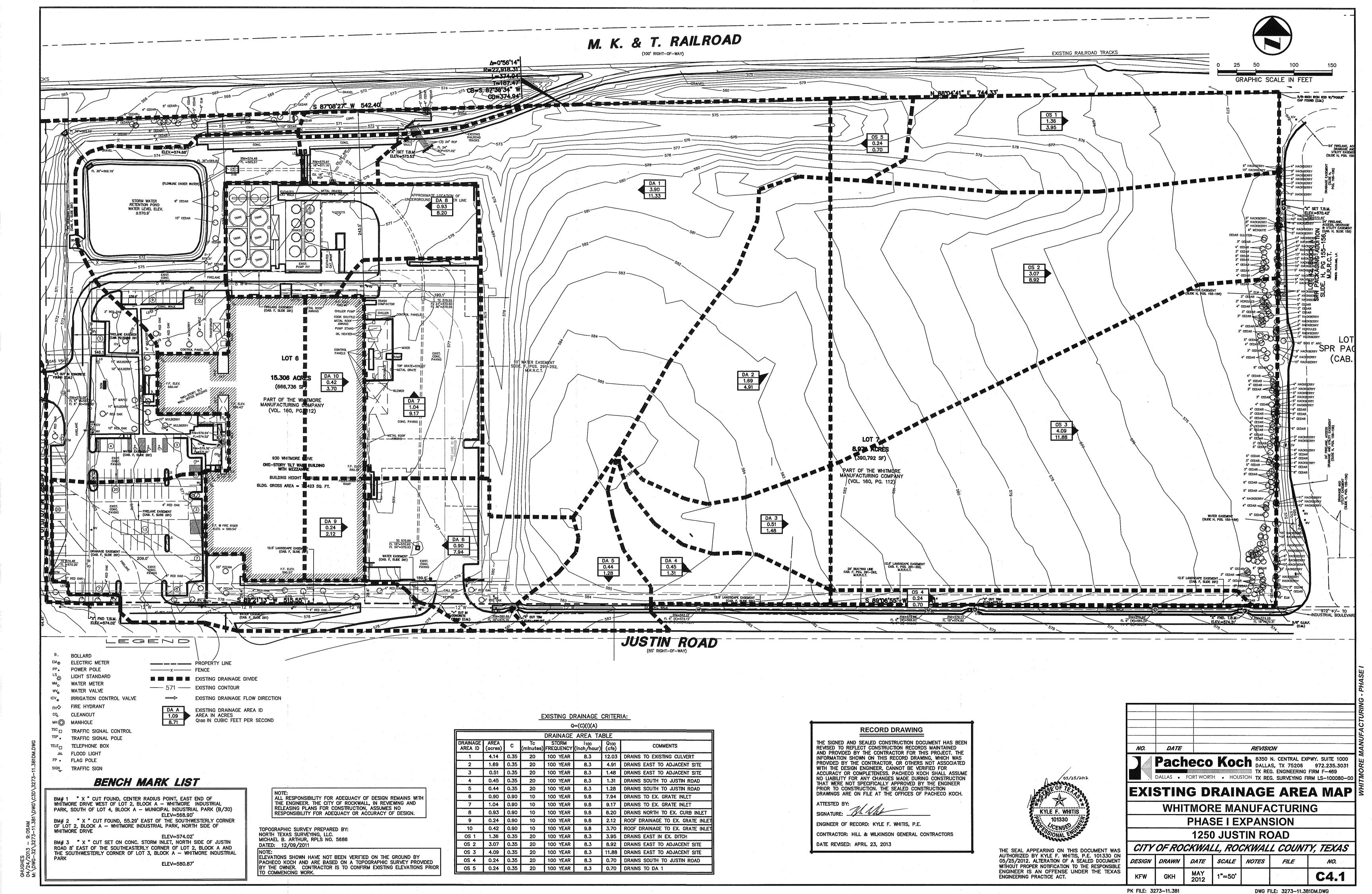
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

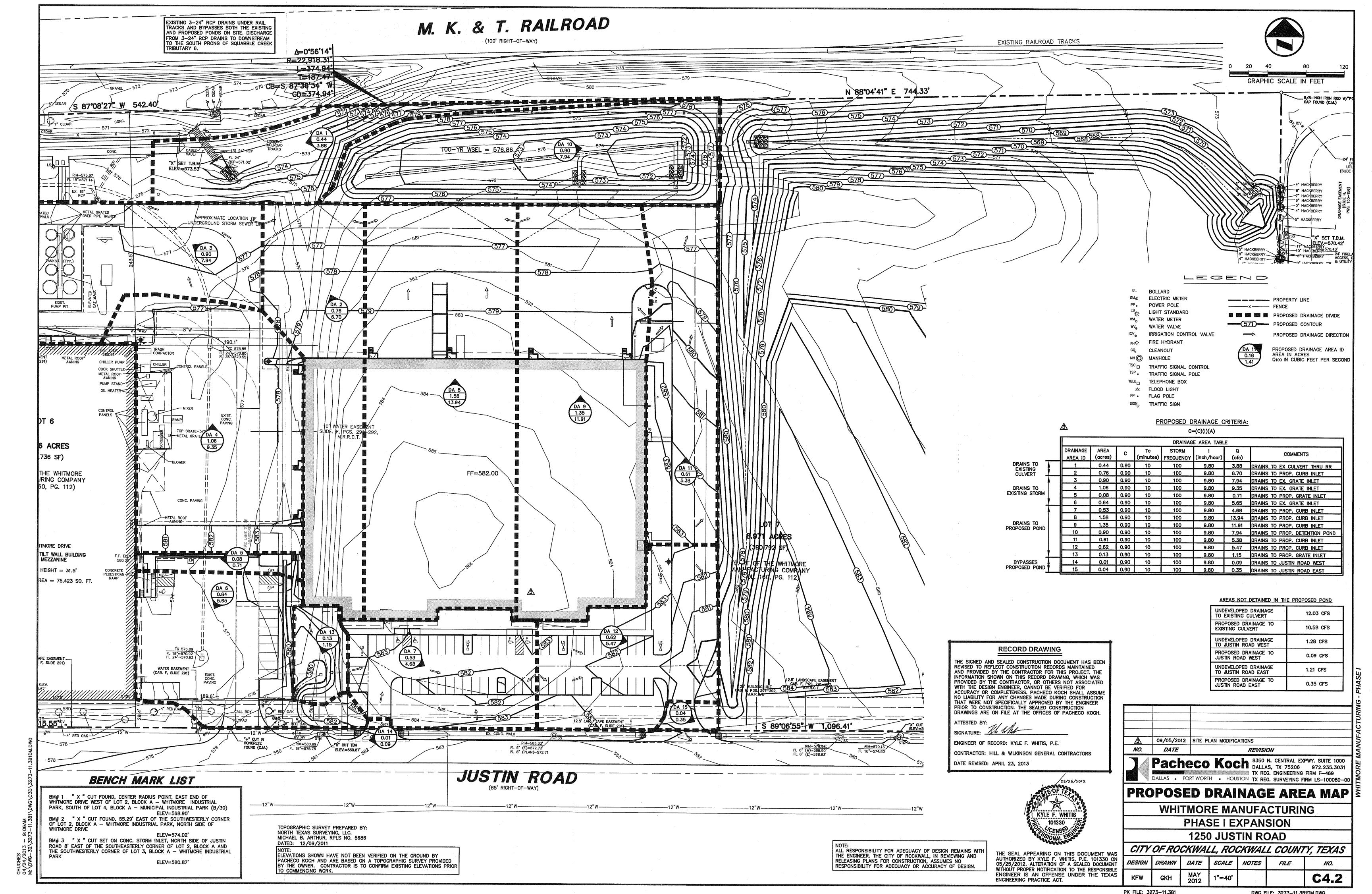
2012

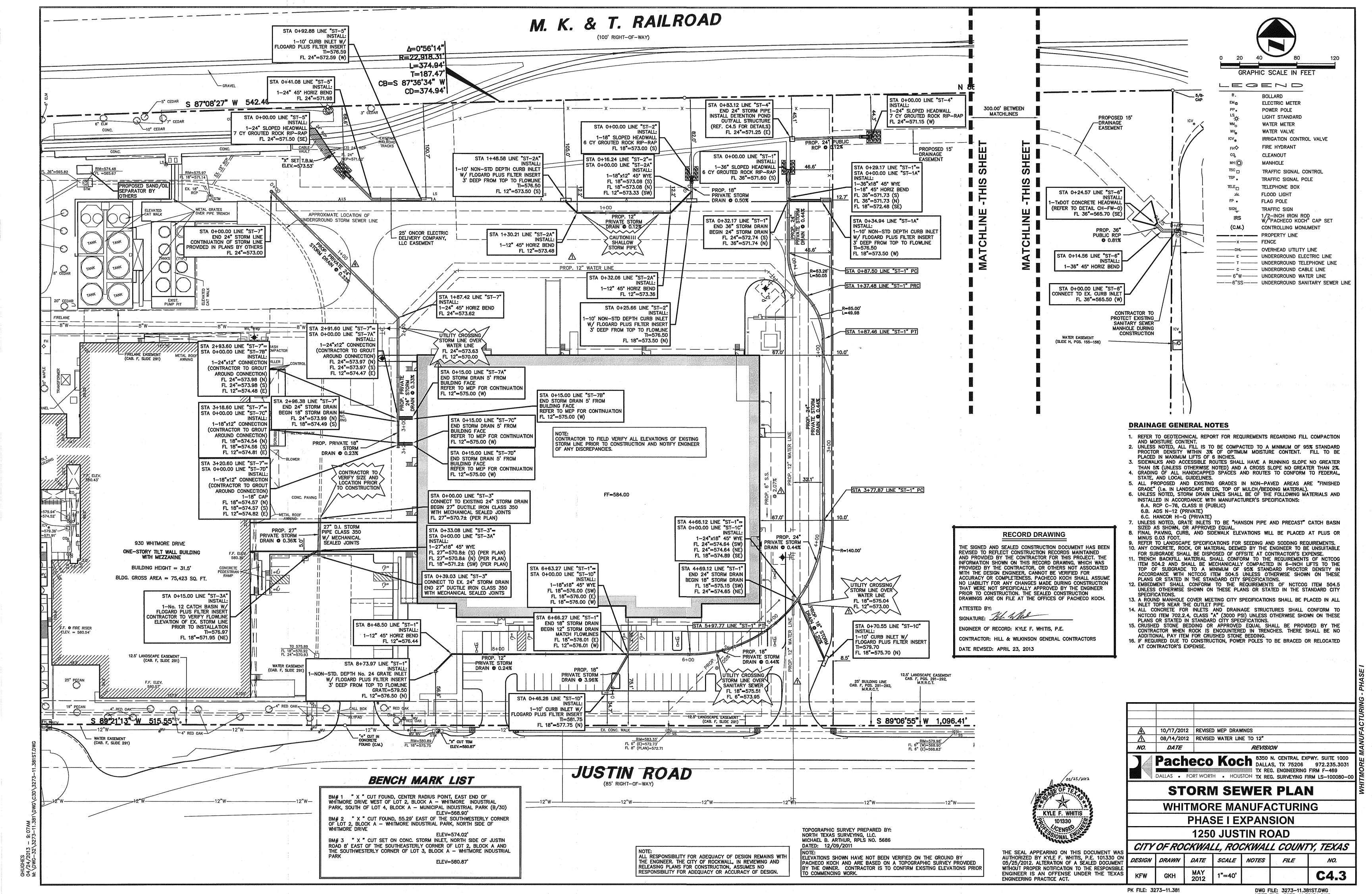
C3.2

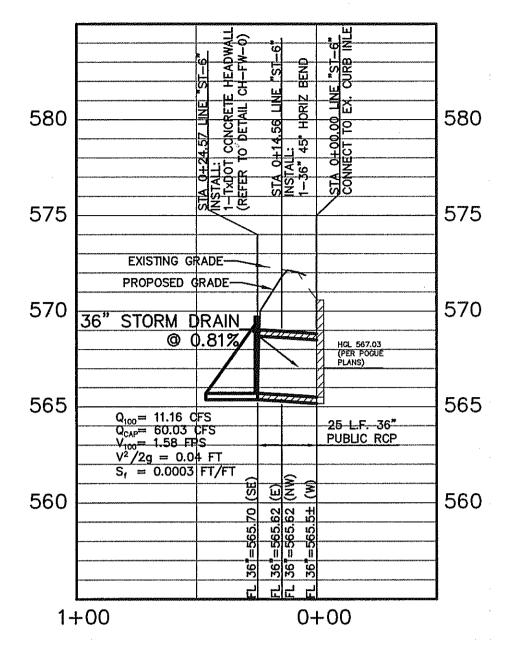
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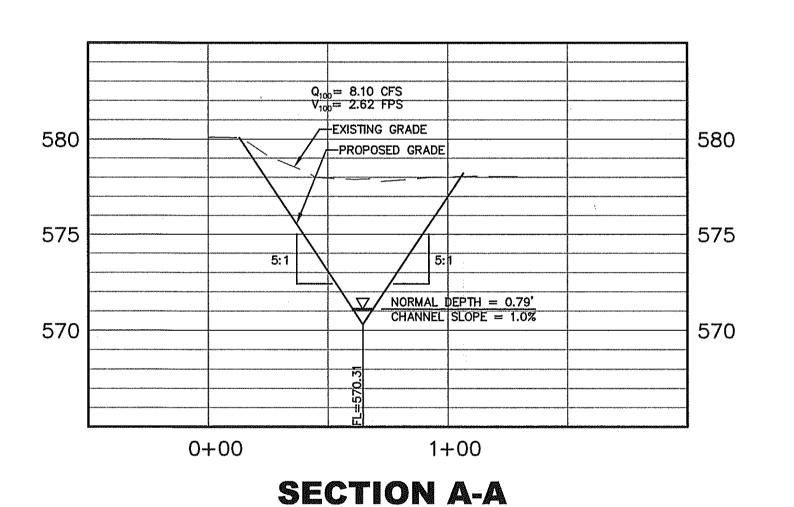


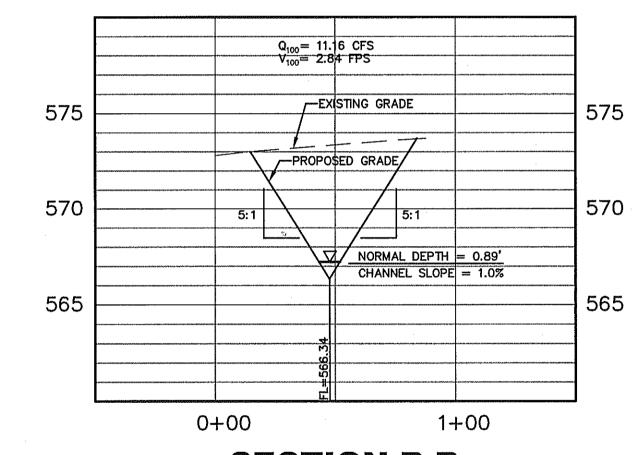






PROFILE STORM LINE "ST-6"





SECTION B-B

SHEET C3.1

					G14		11	······																		
_					City	ot Da	llas		_!																	
	Line ST-	1	:	100	-Year [Desig	n																			
	Downstream Station	Upstream Station	Q (cfs)	Pipe Type	Pipe Ф (in)	Bo Wid (ft	dth	Box Height (ft)	"n" value	Design Slope (ft/ft)	Upstream Junction Type	Connect or Rise (ft) (1)	Downstream HGL	Upstream HGL	Up-stream HGL w/ Jump	Down stream FL	Up stream FL	V (fps)	V²/2g (fps)	Sı	Qco (cfs)	D, (ft)	V _P (fps)	V _p ²/2g (fps)	Partial Station (2)	Partial Elevation (3)
ſ	0+00.00	0+29.17	16.68	Pipe	36		77	7/	0.013	0.0044	Wye - 45° `	Soffits	576.86	576.88	576.93	571.60	571.73	2.36	0.09	0.00063	44.24	N/A	N/A	N/A	N/A	N/A
	0+29.17	0+32.17	11.30	Pipe	36	\mathbb{Z}	//	//	0.013	0.0044	Size Change	Soffits	576.93	576.93	576.93	571.73	571.74	1.60	0.04	0.00029	44.24	N/A	N/A	N/A	N/A	N/A
	0+32.17	4+66.12	11.30	Pipe	24	\mathbb{Z}	\overline{Z}	ZZ	0.013	0.0044	Wye - 45"	Soffits	576.93	578.01	578.16	572.74	574.65	3.60	0.20	0.00250	15.01	N/A	N/A	N/A	N/A	N/A
	4+66.12	4+69.12	5.83	Pipe	24	\mathbb{Z}	\angle	//	0.013	0.0044	Size Change	Soffits	578.16	578.16	578.16	574.65	574.66	1.86	0.05	0.00066	15.01	N/A	N/A	N/A	N/A	N/A
	4+69.12	6+63.27	5.83	Pipe	18	YZ	\overline{Z}	ZZ	0.013	0.0044	Wye - 45°	Centerlines	578.16	578.76	578.92	575.16	576.02	3.30	0.17	0.00308	6.97	N/A	N/A	N/A	N/A	N/A
	6+63.27	6+66.27	1.15	Pipe	18	VZ	//	//	0.013	0.0044	Size Change	Flowlines	578.92	578.92	578.92	576.02	576.03	0.65	0.01	0.00012	6.97	N/A	N/A	N/A	N/A	N/A
	6+66.27	8+48.50	1.15	Pipe	12	$V_{\mathcal{I}}$	77	//	0.013	0.0024	Bend - 45°	Soffits	578.92	579.11	579.13	576.03	576.47	1.46	0.03	0.00104	1.75	N/A	N/A	N/A	N/A	N/A
I	8+48.50	8+73.97	1.15	Pipe	12	V_{I}	//		0.013	0.0024	Inlet	Flowlines	579.13	579.15	579.20	576.47	576.53	1.46	0.03	0.00104	1.75	N/A	N/A	N/A	N/A	N/A

1. DESIGNATES THE TYPE OF STORM PIPE CONNECTION (SOFFIT TO SOFFIT, CENTERLINE TO CENTERLINE, OR FLOWLINE TO FLOWLINE) OR THE ELEVATION DIFFERENCE ACROSS THE STRUCTURE AT THE UPSTREAM STATION.
2. THE STATION AT WHICH THE HYDRAULIC GRADE LINE INTERSECTS THE NORMAL DEPTH IN THE PIPE.
3. THE ELEVATION AT WHICH THE HYDRAULIC GRADE LINE INTERSECTS THE NORMAL DEPTH IN THE PIPE.

BENCH MARK LIST

BM# 1 " X " CUT FOUND, CENTER RADIUS POINT, EAST END OF WHITMORE DRIVE WEST OF LOT 2, BLOCK A — WHITMORE INDUSTRIAL PARK, SOUTH OF LOT 4, BLOCK A - MUNICIPAL INDUSTRIAL PARK (B/30) ELEV=568.90' BM# 2 " X " CUT FOUND, 55.29' EAST OF THE SOUTHWESTERLY CORNER OF LOT 2, BLOCK A — WHITMORE INDUSTRIAL PARK, NORTH SIDE OF BM# 3 " X " CUT SET ON CONC. STORM INLET, NORTH SIDE OF JUSTIN ROAD 8' EAST OF THE SOUTHEASTERLY CORNER OF LOT 2, BLOCK A AND THE SOUTHWESTERLY CORNER OF LOT 3, BLOCK A — WHITMORE INDUSTRIAL PARK

ELEV=580.87'



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09/05/2012 SITE PLAN MODIFICATIONS NO. REVISION Pacheco Koch 8350 N. CENTRAL EXPWY. SUITE 1000 DALLAS, TX 75206 972.235.3031 TX REG. ENGINEERING FIRM F-469 DALLAS . FORT WORTH . HOUSTON TX REG. SURVEYING FIRM LS-100080-00 STORM SEWER PROFILES WHITMORE MANUFACTURING PHASE I EXPANSION **1250 JUSTIN ROAD** CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS DESIGN DRAWN DATE SCALE NOTES MAY H: 1"=40' 2012 V: 1"=5' PK FILE: 3273-11.381 DWG FILE: 3273-11.381ST.DWG

RECORD DRAWING

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CONTRACTOR: HILL & WILKINSON GENERAL CONTRACTORS

NOTE:
ELEVATIONS SHOWN HAVE NOT BEEN VERIFIED ON THE GROUND BY
PACHECO KOCH AND ARE BASED ON A TOPOGRAPHIC SURVEY PROVIDED
BY THE OWNER. CONTRACTOR IS TO CONFIRM EXISTING ELEVATIONS PRIOR
TO COMMENCING WORK.

ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO

RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN.

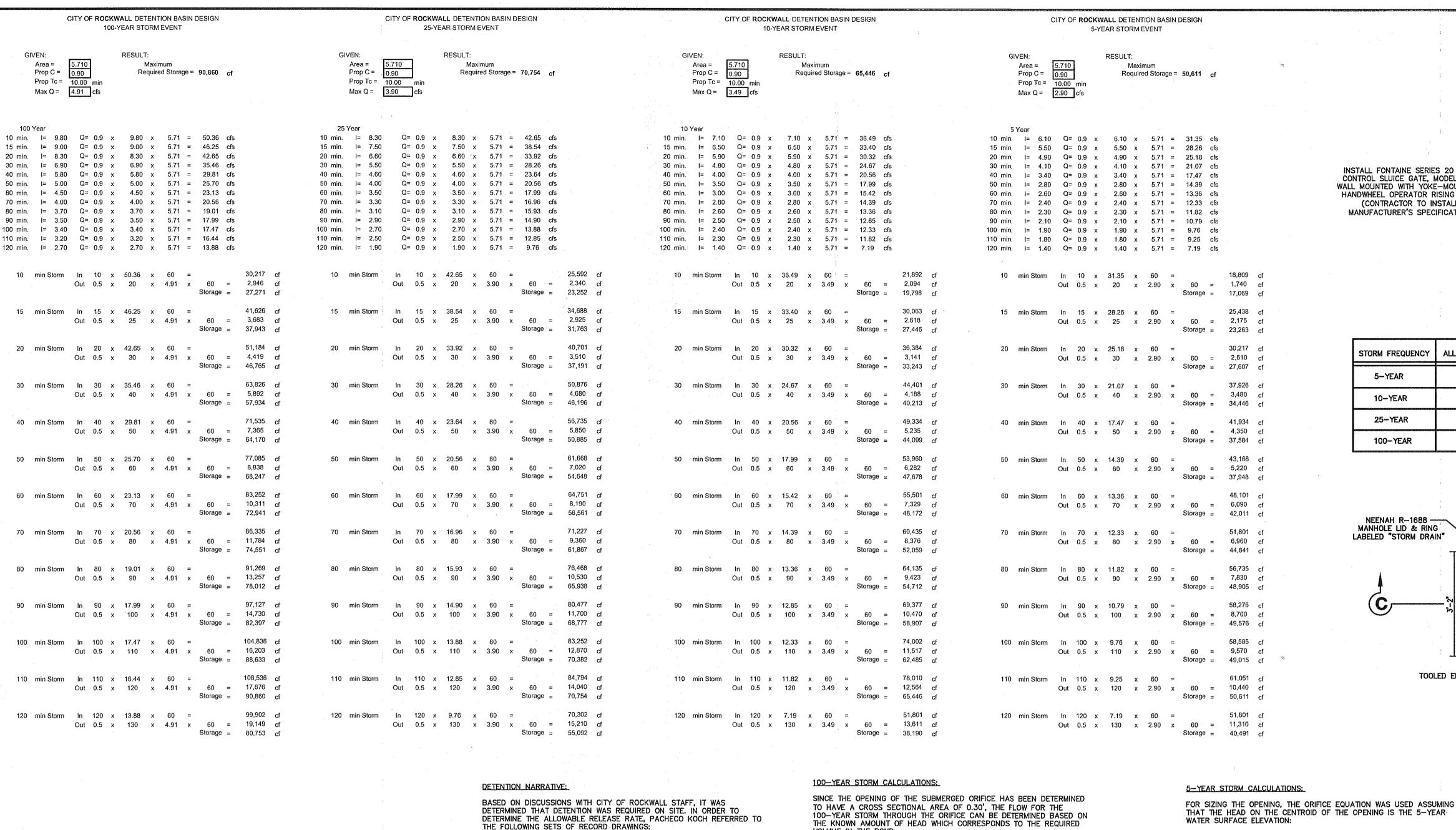
WITH THE DESIGN ENGINEER, CANNOT BE VERIFIED FOR

ENGINEER OF RECORD: KYLE F. WHITIS, P.E.

DATE REVISED: APRIL 23, 2013

TOPOGRAPHIC SURVEY PREPARED BY: NORTH TEXAS SURVEYING, LLC. MICHAEL B. ARTHUR, RPLS NO. 5686

DATED: 12/09/2011



JUSTIN ROAD IMPROVEMENTS, PROVIDED BY WEIR & ASSOCIATES, INC.

SPR PACKAGING ADDITION, PROVIDED BY POGUE ENGINEERING &

SPR PACKAGING EXPANSION, PROVIDED BY POGUE ENGINEERING &

BASED ON THE JUSTIN ROAD IMPROVEMENTS PLANS, THE STORM LINES IN JUSTIN ROAD WERE DESIGNED TO CONVEY THE FULLY DEVELOPED

100-YEAR STORM EVENT, RUNOFF TO THIS PIPE NETWORK INCLUDES THE

ORIGINAL WHITMORE SITE, THE PROPOSED WHITMORE EXPANSION ON LOT

DEVELOPED, THE PONDS ON SITE WERE DESIGNED TO DETAIN THE ONSITE

RUNOFF FROM THE SPR PROJECT AND ALLOW THE OFFSITE DRAINAGE TO

3. LOT 4 EAST OF THE PROPOSED EXPANSION AND THE SPR ADDITION

EAST OF LOT 4. WHEN THE SPR PACKAGING ADDITION WAS FULLY

PASS THROUGH THE POND AT EXISTING CONDITION FLOW RATES.

THEREFORE IT WAS DETERMINED THAT ANY DRAINAGE FROM THE

WHITMORE PROJECT SITE WOULD NEED TO BE DETAINED TO EXISTING

DOWNSTREAM PONDS. THE SPR PACKAGING EXPANSION PLANS SHOW A

WEST PROPERTY LINE TO ALLOW OFFSITE DRAINAGE TO CONNECT INTO THE STORM SYSTEM, WHILE THE STORM LINE IS SIZED APPROPRIATELY

FOR THE FULLY DEVELOPED 100-YEAR CONDITIONS, THE DOWNSTREAM

POND STILL ONLY HAS CAPACITY FOR UNDEVELOPED PASS THROUGH.

THE PLANS FOR THE JUSTIN ROAD IMPROVEMENTS. BASED ON THE

FLOWS IN AN EASTERLY DIRECTION TOWARDS THE PREVIOUSLY

STORM LINE AND CURB INLET WITH A DRAINAGE EASEMENT AGAINST THE

THE DRAINAGE AREAS FOR THE WHITMORE PROJECT SITE ARE BASED ON

EXISTING DRAINAGE AREA MAP FOR THIS PLAN SET, RUNOFF FROM THE

C4.1 WITH AN UNDEVELOPED 100-YEAR FLOW RATE OF 4.91 CUBIC FEET

PER SECOND IS THE ALLOWABLE 100-YEAR RELEASE RATE FROM THE

PROJECT SITE IS LIMITED TO THAT WHICH LEAVES THE PROJECT SITE AND

REFERENCED CURB INLET ON THE SPR SITE. DRAINAGE AREA 2 ON SHEET

-3000 PSI CONCRETE

OVERFLOW CHANNEL

CONDITIONS ON THE SPR SITE SO AS NOT TO OVER BURDEN THE

DEVELOPMENT COMPANY, INC., DATED FEBRARY 25, 2008

DEVELOPMENT COMPANY, INC., DATED SEPTEMBER 27, 2011

DATED FEBRUARY 18, 2009

PROPOSED DETENTION POND.

PROPOSED -

GROUND

C-C BOTH WAYS

#3 BARS AT 2

CONTRACTOR TO INSTALL GROUTED

RIP-RAP PER THIS DETAIL FOR ALL

SLOPED HEADWALLS WITHOUT PILOT

CHANNELS, PILOT CHANNEL IS TO

SHOWN ON SHEET C4.3.

CONCRETE PILOT CHANNEL

REFÉR TO PLAN

U SANTANIAN NA SANTANIANA NA SANTANIAN NA SANTANIAN NA SANTANIAN NA SANTANIAN NA SANTANIANA NA SANTANIAN NA SANTANIANA NA SANTANI

PIPE REINFORCEMENT MAY

EXTEND PAST BREAK LINE

AND BE FIELD BENT INTO

GROUTED RIP-RAP

AND/OR GROUTED RIP-RAP

REPLACE GROUTED RIP-RAP WHERE

DROP INLET WITH SINGLE THROAT OPEN AT 0.6' WIDE AND 1 O' HIGH (REFER TO DETAIL 2 AND DETAILS) 1'x0.60' OPENING RIM ELEV=577.50' 100-YEAR WSEL=576.86' 3 WALL THICKNESS 25-YEAR WSEL=576.16' 10-YEAR WSEL=576.15' ---THROAT 576.00' 5-YEAR WSEL=575.53' INSTALL FONTAINE SERIES 20 FLOW CONTROL SLUICE GATE, MODEL 203. WALL MOUNTED WITH YOKE-MOUNTED LEL 573.25 - PROPOSED 24" HANDWHEEL OPERATOR RISING STEM STORM SEWER (CONTRACTOR TO INSTALL PER 0.6'x0.5' ORIFICE-OWNER TO MAINTAIN ORIFICE MANUFACTURER'S SPECIFICATIONS) J-FL 571.25 TO PREVENT CLOGGING FL 571.25' PROPOSED PILOT CHANNEL

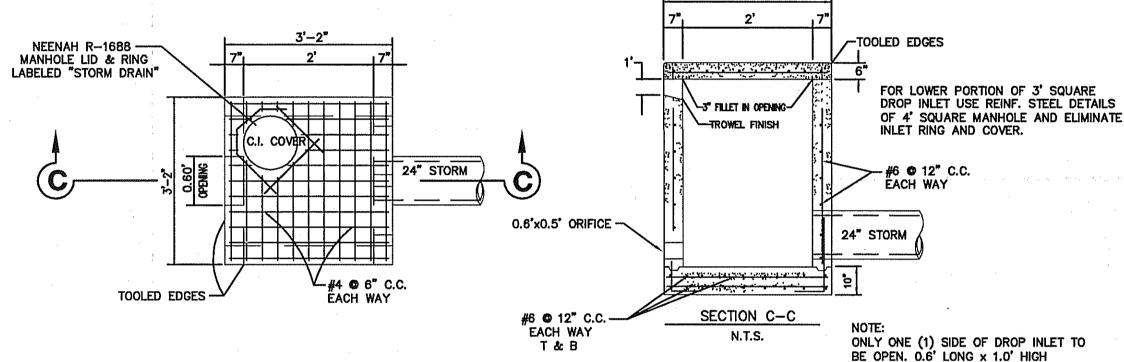
NOTE: Q100 Q Q+ Qw

PROPOSED 3'x3' CAST-IN-PLACE

OUTFALL STRUCTURE DETAIL NOT TO SCALE

STORM FREQUENCY	ALLOWABLE RELEASE	POST-DEVELOPED RELEASE FLOW RATE
5-YEAR	2.90 CFS	Q ₅ = 2.90 CFS
10-YEAR	3.49 CFS	Q ₁₀ = 3.21 CFS
25-YEAR	3.90 CFS	Q ₂₅ = 3.22 CFS
100-YEAR	4.91 CFS	Q ₁₀₀ = 4.85 CFS

STORM FREQUENCY STORAGE REQUIRED WATER SURFACE ELEVATION STORAGE PROVIDED 50,611 CF 50,611 CF 10-YEAR 65,446 CF 66,454 CF 73,202 CF 100-YEAR 90,860 CF 576.86 91,076 CF





NOTE: SIDES AND BOTTOM OF DETENTION POND TO BE STABILIZED WITH EITHER SOD OR

ANCHORED CURLEX PRIOR TO ANY PAVING. DETENTION SYSTEM (POND, GRADE TO DRAIN, OUTFALL STRUCTURE, ETC.) SHOULD BE COMPLETED AND FUNCTIONING PRIOR TO ANY PAVING.



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RECORD DRAWING

ENGINEER OF RECORD: KYLE F. WHITIS, P.E. CONTRACTOR: HILL & WILKINSON GENERAL CONTRACTORS

DATE REVISED: APRIL 23, 2013

DATE REVISION Pacheco Koch 8350 N. CENTRAL EXPWY. SUITE 1000 DALLAS, TX 75206 972.235.3031 TX REG. ENGINEERING FIRM F-469

WHITMORE MANUFACTURING PHASE I EXPANSION

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

GKH 2012

ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

DALLAS . FORT WORTH . HOUSTON TX REG. SURVEYING FIRM LS-100080-00

DETENTION CALCULATIONS

DATE SCALE NOTES DESIGN DRAWN

 $Q_{OR} = C^*A^*(2gh)^(1/2)$

100-YR STORM EVENT C =ENTRANCE COEFFICIENT, ASSUMED TO BE 0.6

=GRAVITY CONSTANT, 32.2 ft/sec^2

 $Q_w = C*L*h^(3/2)$

O =REMAINDER OF FLOW RATE (cfs) C =ENTRANCE COEFFICIENT, ASSUMED TO BE 3.3 L =LENGTH OF WEIR (FT)

h =HEAD; DEPTH ABOVE WEIR (FT)

1.57=(3.3)*(0.60')*(h)^(3/2)

MUST BE AT AN ELEVATION OF 576.00'.

NOTE: ONLY ONE (1) SIDE OF THE WYE INLET IS TO BE OPEN.

NOTE:
PROVIDE BITUMINOUS EXPANSION MATERIAL WHERE PILOT CHANNEL ABUTS PROPOSED STRUCTURE

PILOT CHANNEL NOT TO SCALE

VOLUME IN THE POND:

Q OR ORIFICE FLOW RATE (cfs) THROUGH THE OPENING DURING

A = CROSS SECTIONAL AREA OF OPENING, (SF)

=HEAD; DEPTH AT OUTFALL - CENTROID DISTANCE (FT)

 $Q_{OR} = (0.6)*(0.30)* (2*32.2*(5.36))^{(1/2)}$

Q_{OR} = 3.34 cfs

WHEN WATER REACHES THE WYE INLET OPENING DURING THE 100-YR STORM EVENT, THE WEIR EQUATION IS USED TO CALCULATE THE HEAD NECESSARY FOR THE REMAINING FLOW TO PASS THROUGH:

 $Q_{W} = Q_{100} - Q_{OR}$

WHERE: $Q_{00} = 4.91 \text{ cfs}$ $Q_{0R} = 3.34 \text{ cfs}$

SO: Q_w = 1.57 cfs

THEREFORE:

FROM THESE CALCULATIONS, IT IS DETERMINED THAT SINCE THE 100-YEAR WATER SURFACE IS AT 576.86', THE THROAT OF THE OPENING

ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN.

GRADING GENERAL NOTES

Q=2.90 CFS

 $Q = C*A*(2gh)^(1/2)$

=FLOW RATE (cfs)

USING AN OPENING OF 0.6' X 0.5':

 $Q = (0.6)*(0.6*0.5)* | 2*32.2*(4.03) | ^(1/2)$

1. REFER TO GEOTECHNICAL REPORT FOR REQUIREMENTS REGARDING FILL COMPACTION AND MOISTURE 2. UNLESS NOTED, ALL FILL IS TO BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR

=ENTRANCE COEFFICIENT, ASSUMED TO BE 0.6

h =HEAD; DEPTH AT OUTFALL - CENTROID DISTANCE (SF)

SINCE THIS FLOW IS EQUAL TO OR LESS THAN THE ALLOWED RELEASE

RATE, THE ORIFICE IS CORRECTLY SIZED TO HANDLE THE 5-YEAR STORM

=CROSS SECTIONAL AREA OF OPENING (SF)

SOLVING FOR THE ALLOWABLE FLOW THROUGH THE OPENING

=GRAVITY CONSTANT, 32.2 ft/sec^2

DENSITY WITHIN 3% OF OPTIMUM MOISTURE CONTENT. FILL TO BE PLACED IN MAXIMUM LIFTS OF 6 3. SIDEWALKS AND ACCESSIBLE ROUTES SHALL HAVE A RUNNING SLOPE NO GREATER THAN 5% (UNLESS OTHERWISE NOTED) AND A CROSS SLOPE NO GREATER THAN 2% 4. GRADING OF ALL HANDICAPPED SPACES AND ROUTES TO CONFORM TO FEDERAL, STATE, AND

LOCAL GUIDELINES. 5. ALL PROPOSED AND EXISTING GRADES IN NON-PAVED AREAS ARE "FINISHED GRADE" (I.e. IN LANDSCAPE BEDS, TOP OF MULCH/BEDDING MATERIAL). 6. UNLESS NOTED, STORM DRAIN LINES SHALL BE OF THE FOLLOWING MATERIALS AND INSTALLED IN

ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS: 6.A. RCP C-76, CLASS III (PUBLIC) 6.B. ADS N-12 (PRIVATE)

6.C. HANCOR HI-Q (PRIVATE) UNLESS NOTED, GRATE INLETS TO BE "HANSON PIPE AND PRECAST" CATCH BASIN SIZED AS SHOWN, OR APPROVED EQUAL. B. FINAL PAYING, CURB, AND SIDEWALK ELEVATIONS WILL BE PLACED AT PLUS OR MINUS 0.03 FOOT. REFER TO LANDSCAPE SPECIFICATIONS FOR SEEDING AND SODDING REQUIREMENTS.

10. ANY CONCRETE, ROCK, OR MATERIAL DEEMED BY THE ENGINEER TO BE UNSUITABLE FOR SUBGRADE SHALL BE DISPOSED OF OFFSITE AT CONTRACTOR'S EXPENSE. 11. TRENCH BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 504.2 AND SHALL BE MECHANICALLY COMPACTED IN 6-INCH LIFTS TO THE TOP OF SUBGRADE TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY IN ACCORDANCE WITH NCTCOG ITEM 504.5 WITH CITY OF ROCKWALL REVISIONS UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN THE STANDARD

12. EMBEDMENT SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 504.5 WITH CITY OF ROCKWALL REVISIONS UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN THE STANDARD CITY SPECIFICATIONS 13. A ROUND MANHOLE COVER MEETING CITY SPECIFICATIONS SHALL BE PLACED IN ALL INLET TOPS

14. ALL CONCRETE FOR INLETS AND DRAINAGE STRUCTURES SHALL CONFORM TO 4,200 PSI PER CITY OF ROCKWALL RECOMMENDATION UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN STANDARD CITY SPECIFICATIONS. 15. CRUSHED STONE BEDDING OR APPROVED EQUAL SHALL BE PROVIDED BY THE CONTRACTOR WHEN ROCK IS ENCOUNTERED IN TRENCHES. THERE SHALL BE NO ADDITIONAL PAY ITEM FOR CRUSHED

CONTRACTOR'S EXPENSE. 17. ALL FILL TO BE COMPACTED USING SHEEP'S FOOT ROLLER.

16. IF REQUIRED DUE TO CONSTRUCTION, POWER POLES TO BE BRACED OR RELOCATED AT

NEAR THE OUTLET PIPE.

KFW

DWG FILE: 3273-11.381GR,DWG

VARIES -

12"

(APPROX.)

BREAK LINE

NOT TO SCALE

VARIES -

3" MIN.

R.C.P.~

PLAN VIEW

SECTION A-A

SECTION B-B

REINFORCED CONCRETE

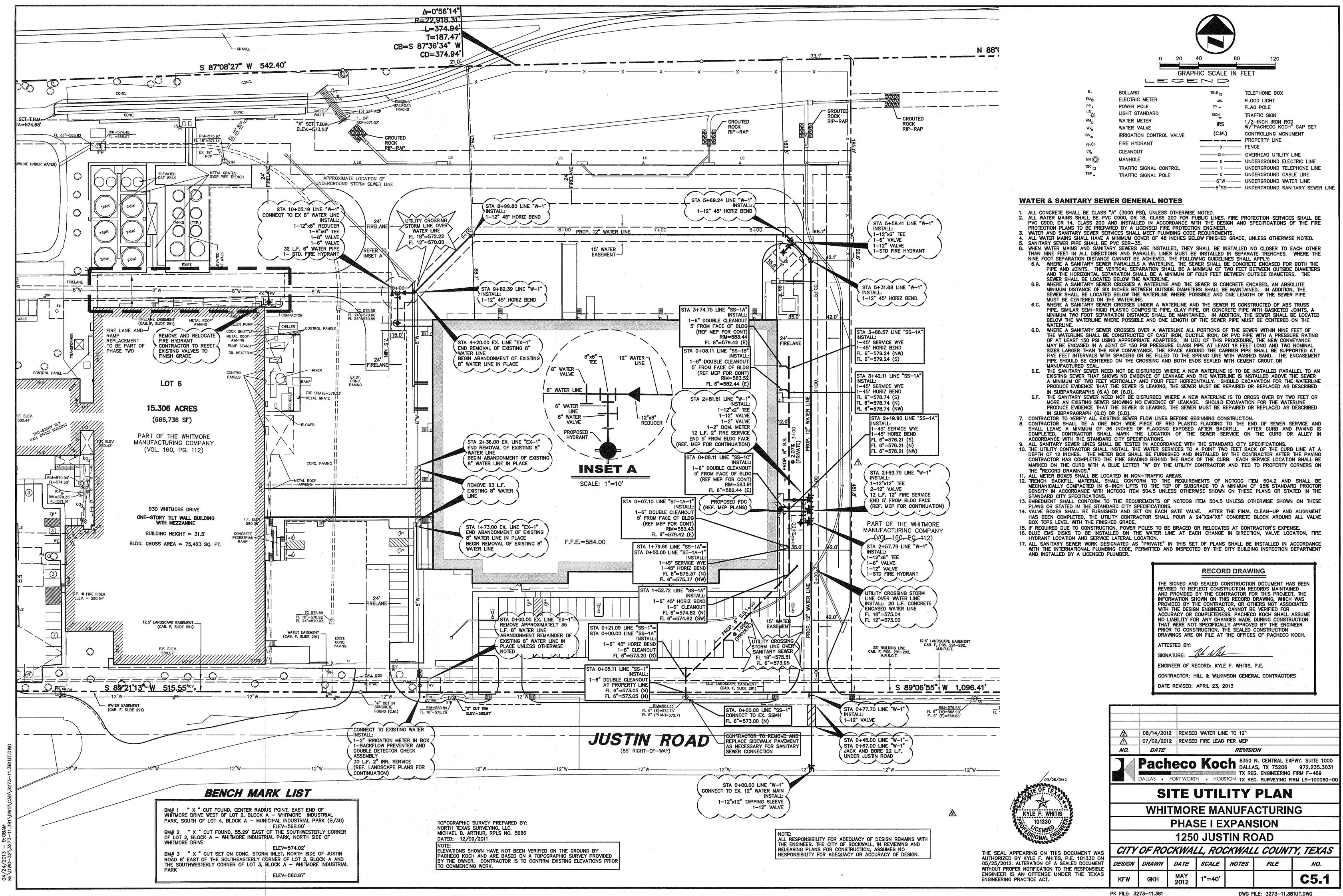
SLOPING HEADWALL

- 6"x6" #6 WIRE MESH

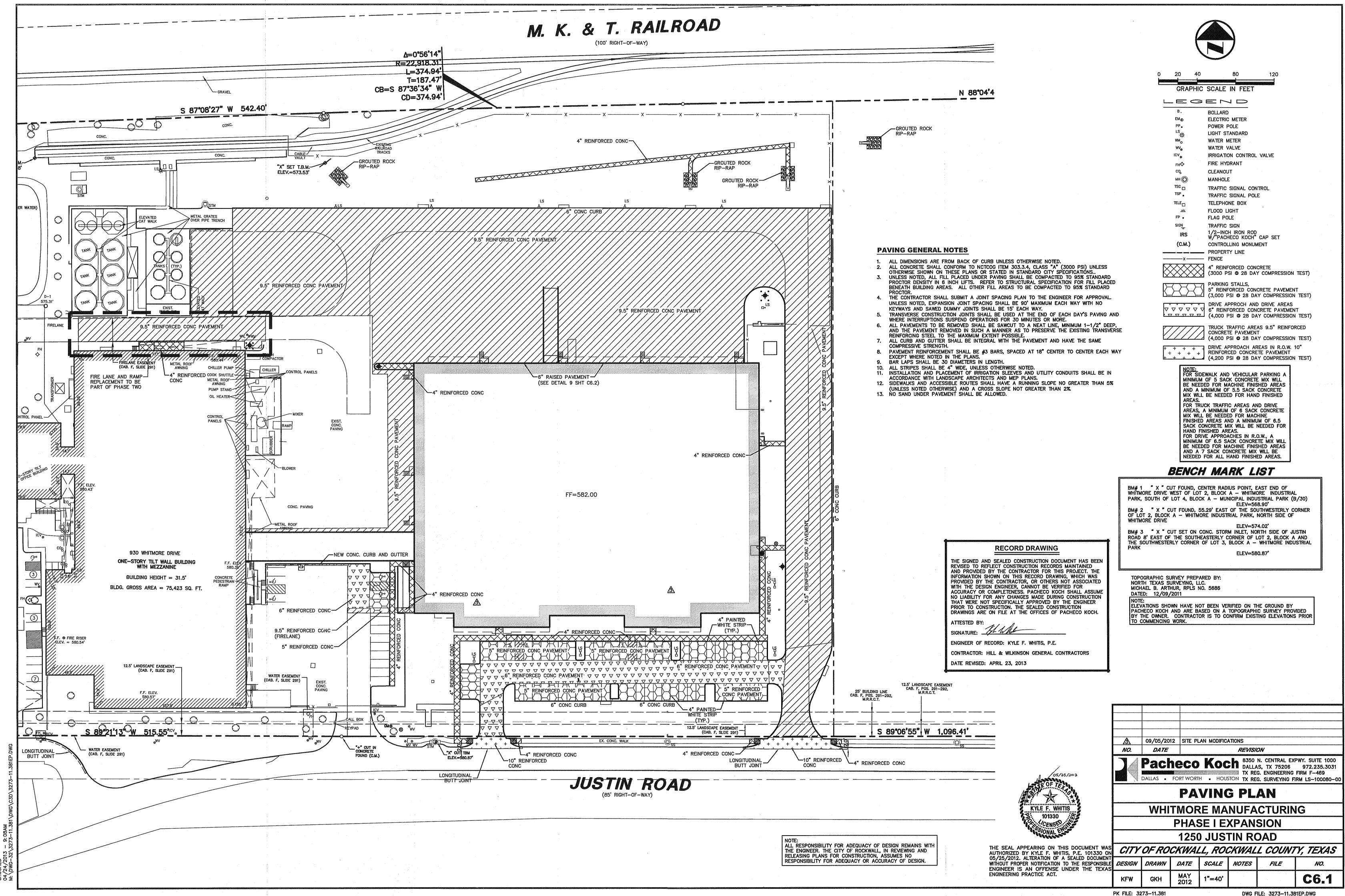
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MAY

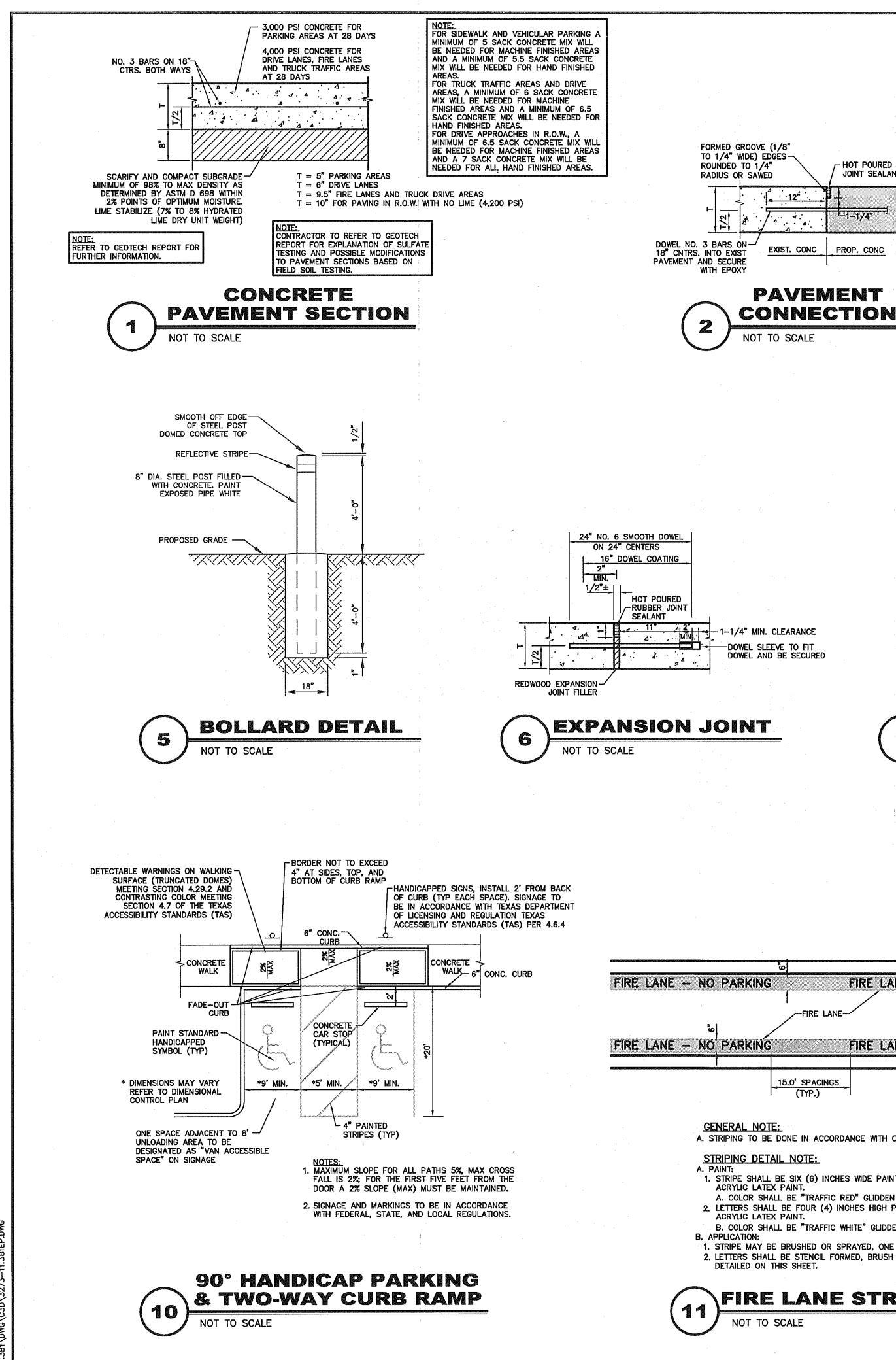
1250 JUSTIN ROAD

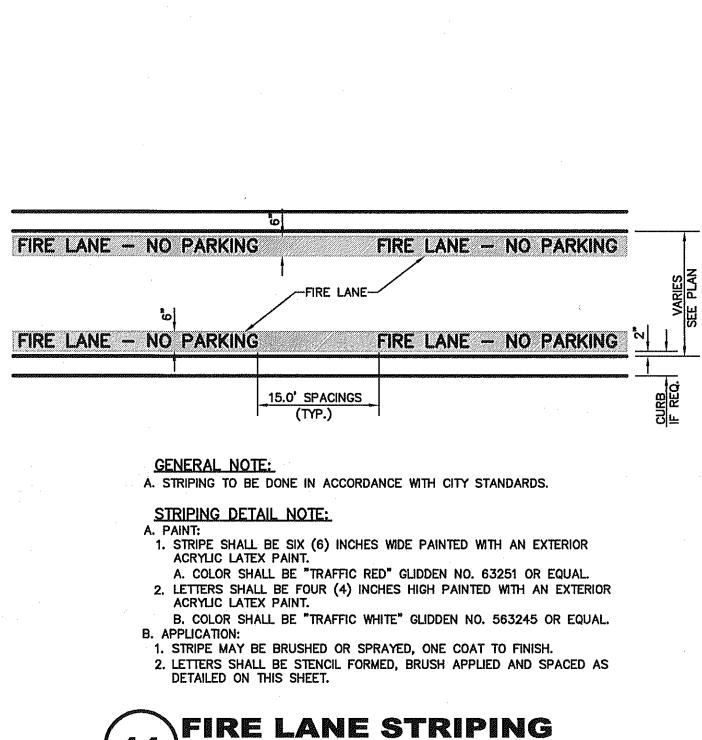


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- HOT POURED RUBBER

1/2" WIDE FORMED GROOVE-

EDGES ROUNDED TO

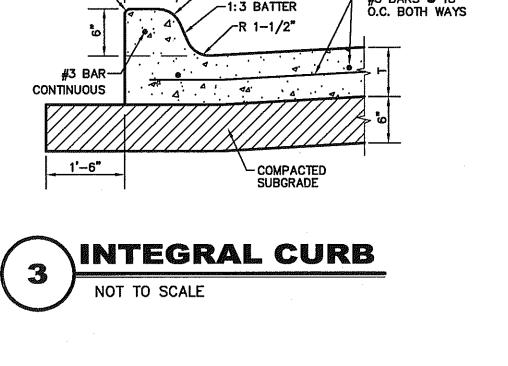
1/4" RADIUS

NO. 3 BARS ON 18"-

JOINT SEALANT

PROP. CONC

EXIST. CONC



JOINT SEALANT WITH EXPANSION

MATERIAL IF ADJACENT TO

CURB OR BUILDING

WIDTH VARIES - SEE PLAN

-#3 BARS AT 24" C-C BOTH WAYS

CONCRETE WALK

PRIVATE

NOT TO SCALE

COMPACTED SUBGRADE TO 95% STANDARD

PROCTOR. LIME STABILIZATION OR SELECT BORROW MATERIAL FOR SUBGRADE IS

PROVIDE TOOLED JOINTS AT SPACING EQUAL TO WIDTH. PROVIDE REDWOOD

UNLESS NOTED DIFFERENTLY ON ARCHITECTURAL OR LANDSCAPE PLANS

EXPANSION JOINTS AT 32' SPACING

REQUIRED WHEN SOIL P.I. IS GREATER

THAN 18. NO SAND ALLOWED UNDER

FINISH OR COLOR IS NOTED

OR LANDSCAPE PLANS

DIFFERENTLY ON ARCHITECTURAL

√3" RADIUS

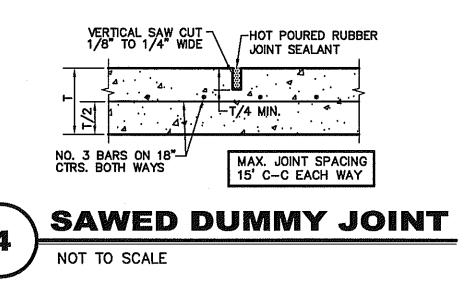
3/8" RADIUS-

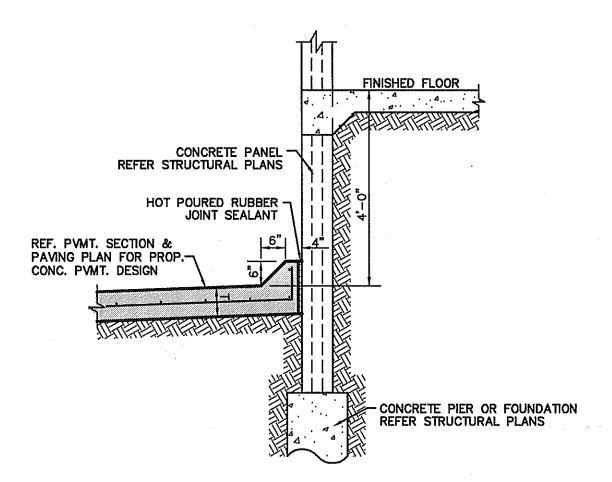
- HOT POURED RUBBER

JOINT SEALANT

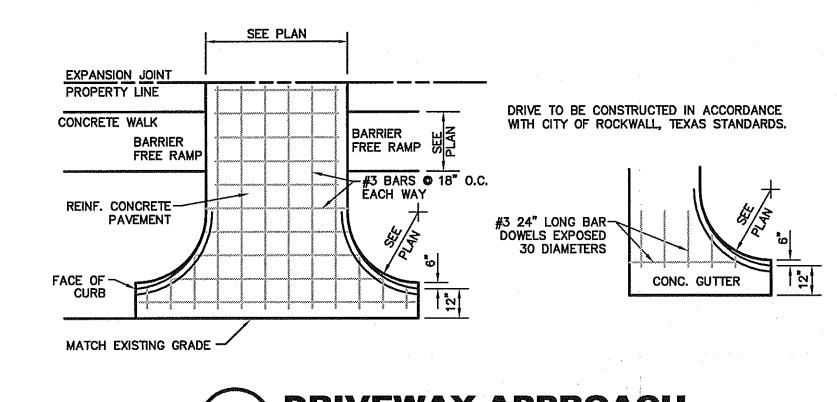
SECOND POUR

CONSTRUCTION JOINT

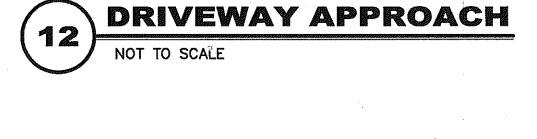


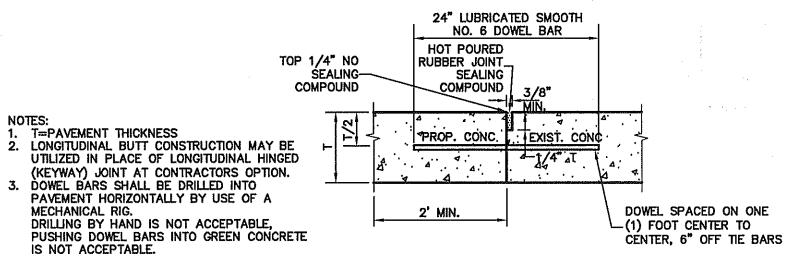






PROVIDE BITUMINOUS EXPANSION MATERIAL WHERE WALK ABUTS EXISTING IMPROVEMENTS AND AT ALL CHANGES IN GRADE





LONGITUDINAL **BUTT JOINT** NOT TO SCALE



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KYLE F. WHITIS, P.E. 101330 ON 05/25/2012. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS

RECORD DRAWING THE SIGNED AND SEALED CONSTRUCTION DOCUMENT HAS BEEN REVISED TO REFLECT CONSTRUCTION RECORDS MAINTAINED AND PROVIDED BY THE CONTRACTOR FOR THIS PROJECT. THE INFORMATION SHOWN ON THIS RECORD DRAWING, WHICH WAS PROVIDED BY THE CONTRACTOR, OR OTHERS NOT ASSOCIATED WITH THE DESIGN ENGINEER, CANNOT BE VERIFIED FOR ACCURACY OR COMPLETENESS. PACHECO KOCH SHALL ASSUME NO LIABILITY FOR ANY CHANGES MADE DURING CONSTRUCTION THAT WERE NOT SPECIFICALLY APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. THE SEALED CONSTRUCTION DRAWINGS ARE ON FILE AT THE OFFICES OF PACHECO KOCH. ATTESTED BY: SIGNATURE: ENGINEER OF RECORD: KYLE F. WHITIS, P.E. CONTRACTOR: HILL & WILKINSON GENERAL CONTRACTORS DATE REVISED: APRIL 23, 2013

NO. DATE REVISION Pacheco Koch 8350 N. CENTRAL EXPWY. SUITE 1000 DALLAS, TX 75206 972.235.3031 TX REG. ENGINEERING FIRM F-469 DALLAS . FORT WORTH . HOUSTON TX REG. SURVEYING FIRM LS-100080-00 PAVING DETAILS

WHITMORE MANUFACTURING PHASE I EXPANSION

1250 JUSTIN ROAD CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS DATE SCALE DESIGN

> MAY C6.2 N.T.S. GKH 2012

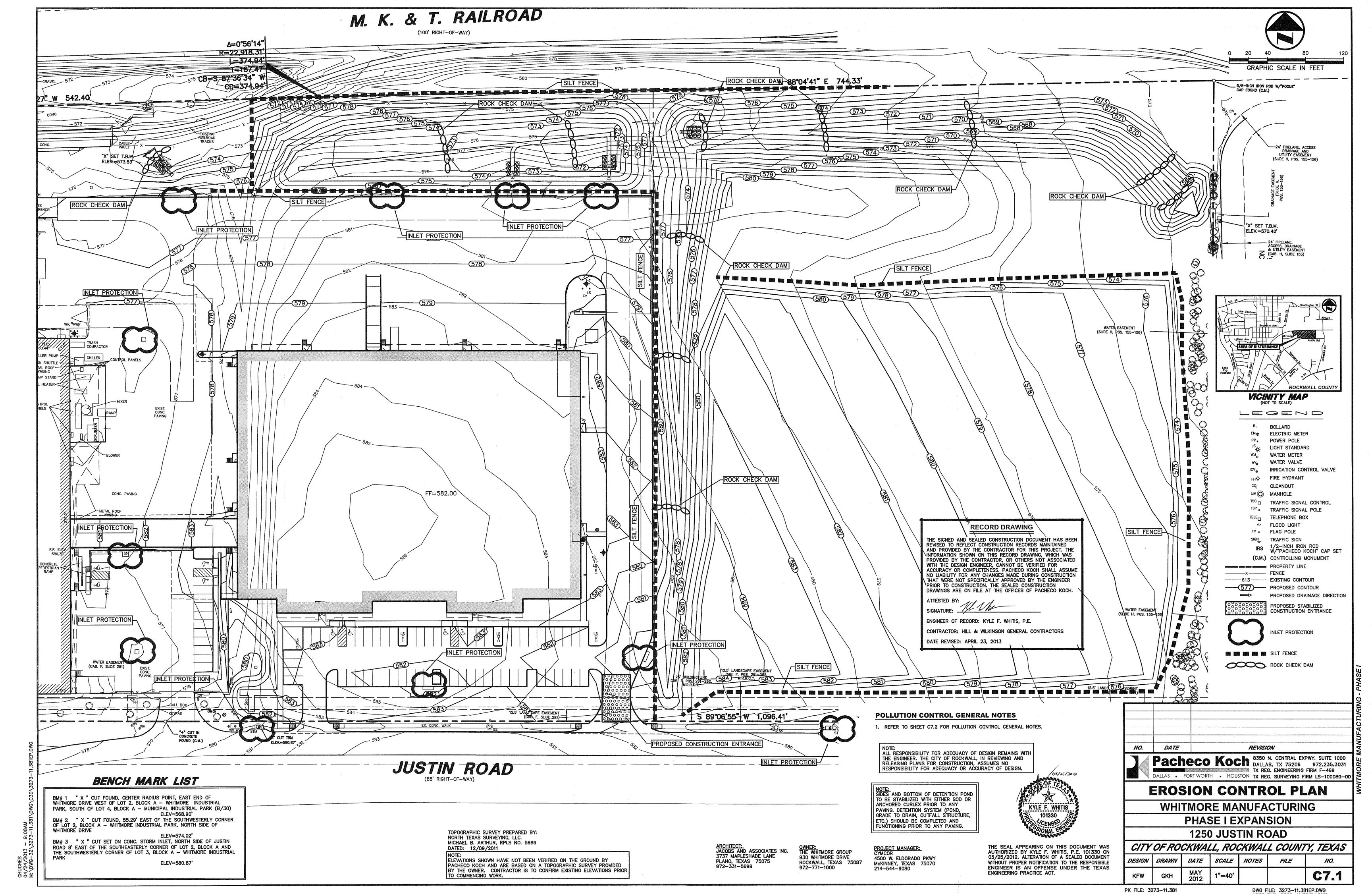
KFW

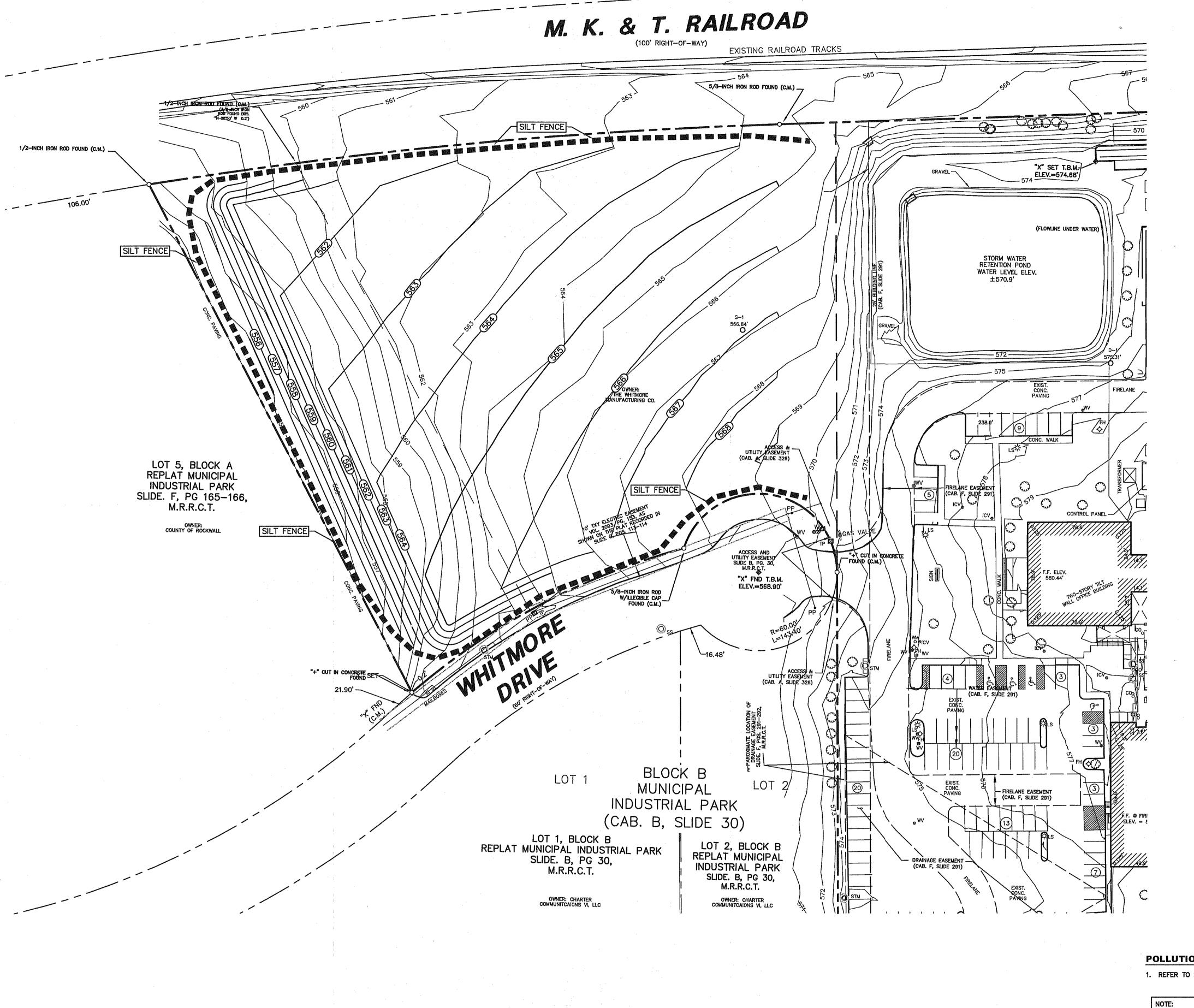
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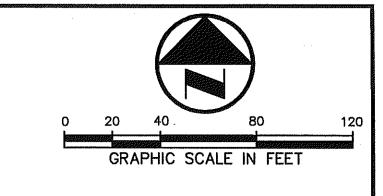
ENGINEERING PRACTICE ACT.

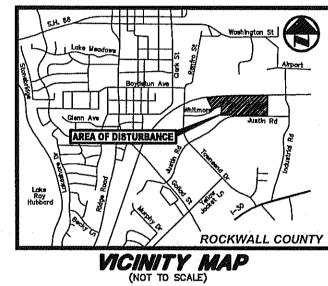
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NOTES









BOLLARD ELECTRIC METER POWER POLE

LIGHT STANDARD WATER METER WATER VALVE

IRRIGATION CONTROL VALVE CLEANOUT cQ

MH(O) MANHOLE TRAFFIC SIGNAL CONTROL

TRAFFIC SIGNAL POLE TELEPHONE BOX 뽀 FLOOD LIGHT

FP • FLAG POLE SIGN TRAFFIC SIGN

IRS 1/2-INCH IRON ROD W/"PACHECO KOCH" CAP SET (C.M.) CONTROLLING MONUMENT PROPERTY LINE

_____x ____ FENCE -----613 ---- EXISTING CONTOUR PROPOSED CONTOUR

PROPOSED DRAINAGE DIRECTION PROPOSED STABILIZED CONSTRUCTION ENTRANCE



INLET PROTECTION

. ROCK CHECK DAM

REVISION

POLLUTION CONTROL GENERAL NOTES

1. REFER TO SHEET C7.2 FOR POLLUTION CONTROL GENERAL NOTES.

ATTESTED BY:

ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN.

NOTE: SIDES AND BOTTOM OF DETENTION POND TO BE STABILIZED WITH EITHER SOD OR ANCHORED CURLEX PRIOR TO ANY PAVING. DETENTION SYSTEM (POND, GRADE TO DRAIN, OUTFALL STRUCTURE, ETC.) SHOULD BE COMPLETED AND FUNCTIONING PRIOR TO ANY PAVING.



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KYLE F. WHITIS, P.E. 101330 ON 05/25/2012. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE

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PRIOR TO CONSTRUCTION. THE SEALED CONSTRUCTION

DRAWINGS ARE ON FILE AT THE OFFICES OF PACHECO KOCH.

CONTRACTOR: HILL & WILKINSON GENERAL CONTRACTORS

ENGINEER OF RECORD: KYLE F. WHITIS, P.E.

DATE REVISED: APRIL 23, 2013

Pacheco Koch 8350 N. CENTRAL EXPWY. SUITE 1000 DALLAS, TX 75206 972.235.3031 TX REG. ENGINEERING FIRM F-469 DALLAS - FORT WORTH - HOUSTON TX REG. SURVEYING FIRM LS-100080-00

EROSION CONTROL PLAN

WHITMORE MANUFACTURING **PHASE I EXPANSION**

1250 JUSTIN ROAD CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS DESIGN DRAWN DATE SCALE NOTES

> MAY 2012 C7.2 1"=40"

BM# 1 " X " CUT FOUND, CENTER RADIUS POINT, EAST END OF WHITMORE DRIVE WEST OF LOT 2, BLOCK A - WHITMORE INDUSTRIAL PARK, SOUTH OF LOT 4, BLOCK A - MUNICIPAL INDUSTRIAL PARK (B/30) ELEV=568.90' BM# 2 " X " CUT FOUND, 55.29' EAST OF THE SOUTHWESTERLY CORNER OF LOT 2, BLOCK A — WHITMORE INDUSTRIAL PARK, NORTH SIDE OF WHITMORE DRIVE ELEV=574.02 BM# 3 " X " CUT SET ON CONC. STORM INLET, NORTH SIDE OF JUSTIN ROAD 8' EAST OF THE SOUTHEASTERLY CORNER OF LOT 2, BLOCK A AND

THE SOUTHWESTERLY CORNER OF LOT 3, BLOCK A - WHITMORE INDUSTRIAL

ELEV=580.87*

BENCH MARK LIST

TOPOGRAPHIC SURVEY PREPARED BY: NORTH TEXAS SURVEYING, LLC. MICHAEL B. ARTHUR, RPLS NO. 5686 DATED: 12/09/2011 INOTE:
LELEVATIONS SHOWN HAVE NOT BEEN VERIFIED ON THE GROUND BY PACHECO KOCH AND ARE BASED ON A TOPOGRAPHIC SURVEY PROVIDED BY THE OWNER. CONTRACTOR IS TO CONFIRM EXISTING ELEVATIONS PRIOR TO COMMENCING WORK.

ARCHITECT: JACOBS AND ASSOCIATES INC. 3737 MAPLESHADE LANE PLANO, TEXAS 75075 972-331-5699

OWNER: THE WHITMORE GROUP 930 WHITMORE DRIVE ROCKWALL, TEXAS 75087 972-771-1000

PROJECT MANAGER: CYMCOR 4500 W. ELDORADO PKWY McKINNEY, TEXAS 75070 214-544-9080

ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

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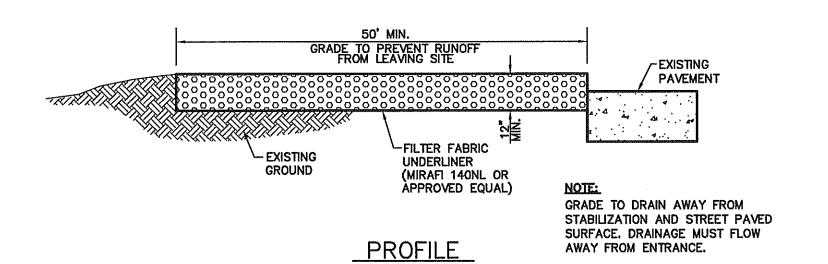
GKH

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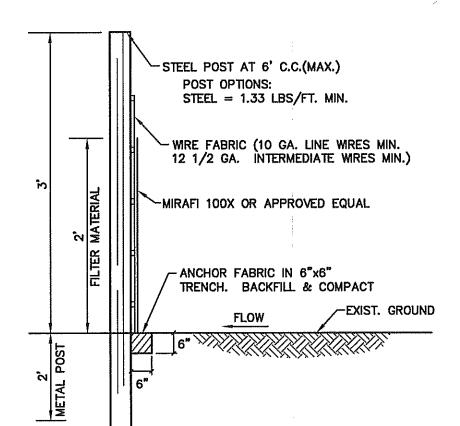
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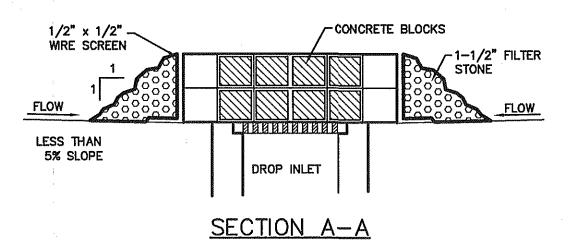
PLAN VIEW

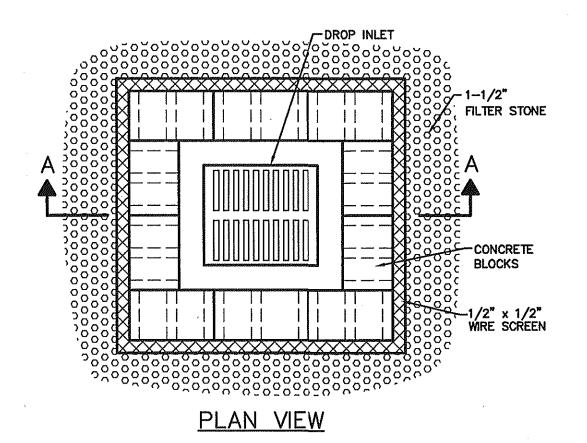


STABILIZED CONSTRUCTION ENTRANCE NOT TO SCALE

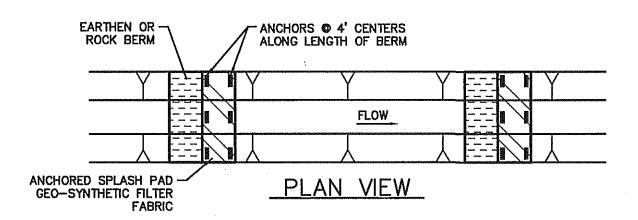


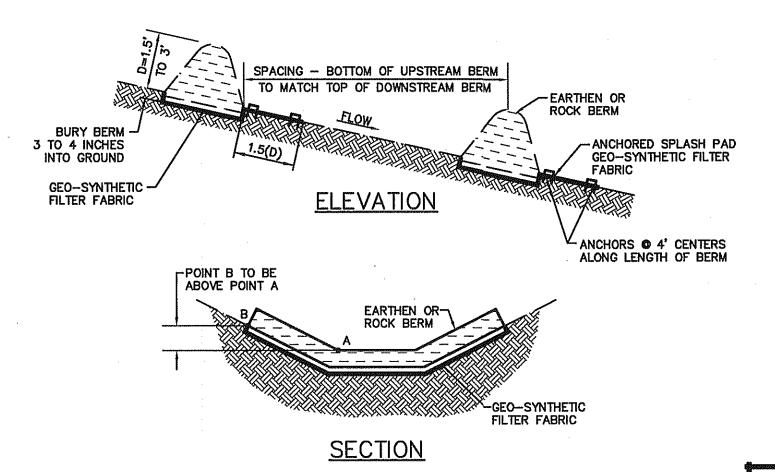




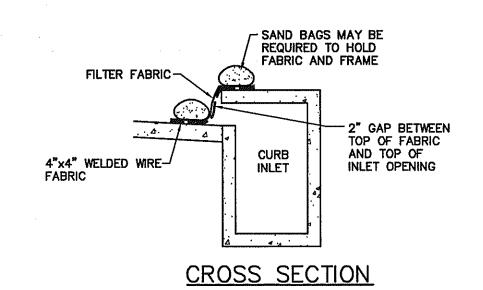


DROP INLET PROTECTION









ONE AT EACH END AND ENOUGH IN BETWEEN TO PREVENT GAPS BETWEEN THE PAVEMENT AND THE FILTER FABRIC. LAY BAGS LONGITUDINALLY IN THE GUTTER AT THE ENDS, TRANSVERSE TO GUTTER IN BETWEEN-FILTER FABRIC-4"x4" WELDED WIRE-NOTE: VERTICAL PANEL BARRICADES TO BE PLACED WHEN EXTEND WIRE MESH AND -LOCATED ON AN ACTIVE STREET. FILTER FABRIC 12" (MIN.) BEYOND CURB OPENING PLAN VIEW on both ends

SAND BAGS FILLED WITH FILTER STONE.



POLLUTION CONTROL GENERAL NOTES

- 1. THIS PLAN HAS BEEN PREPARED TO PROVIDE MEANS TO PREVENT OR MINIMIZE POLLUTION OF STORM WATER.
 2. THE CONSTRUCTION ACTIVITY INCLUDED IN THIS PLAN WILL INCLUDE:
 - CLEARING AND GRUBBING 2.B. ROUGH GRADING
- FINAL GRADING UTILITY INSTALLATION
- PAVEMENT INSTALLATION BUILDING CONSTRUCTION
- 3. THE TOTAL ESTIMATED LAND AREA TO BE DISTURBED IS 6.378 ACRES.
 4. THE ESTIMATED RUNOFF COEFFICIENT UPON COMPLETION OF THE PROJECT IS 0.90. 5. THE STORM WATER EXITING THE SITE IS COLLECTED IN AN EXISTING DRAINAGE SYSTEM MAINTAINED BY THE CITY OF
- ROCKWALL, TEXAS. 6. THE SOILS ON THE SITE ARE GENERALLY EXPANSIVE CLAYS.
- 7. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN EROSION PROTECTION AROUND THE WORK AREA PERIMETER AND AT ALL INLET MOUTHS PRIOR TO COMMENCING WORK AND UNTIL THE WORK AREA HAS BEEN STABILIZED.
- 8. THE CONTRACTOR WILL REMOVE ALL EXCESS SOIL FROM CONSTRUCTION VEHICLES PRIOR TO EXITING THE SITE. 9. ALL DISTURBED AREAS WHICH WILL NOT BE RE-DISTURBED FOR A MINIMUM OF 21 DAYS MUST BE STABILIZED BY THE
- CONTRACTOR TO CONTROL EROSION. 10. THE CONTRACTOR SHALL UNDERTAKE PROPER METHODS TO REDUCE DUST GENERATION FROM THE SITE.

 11. THE CONTRACTOR MUST COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS REGARDING SEDIMENT AND EROSION
- 12. A COPY OF THIS PLAN MUST BE KEPT AT THE CONSTRUCTION FACILITY DURING THE ENTIRE CONSTRUCTION PERIOD.

 13. CONSTRUCTION SEQUENCING MUST PROVIDE FOR THE EXCAVATION OF AN ON-SITE BASIN AS A SEDIMENT COLLECTION BASIN PRIOR TO THE DISTURBANCE OF GREATER THAN 10 ACRES OF LAND.
- 14. ALL FINISHED GRADES ARE TO BE SPOT SODDED OR SEEDED AND WATERED NO LONGER THAN THIRTY (30) DAYS WHILE UNDER STAGE III WATER RESTRICTIONS UNTIL GROWTH IS ESTABLISHED ON AND OFF—SITE. 15. A PIT OR WASH OUT BASIN SHALL BE CONSTRUCTED ON-SITE BY THE CONTRACTOR FOR THE "WASH OUT" OF
- CONCRETE TRUCKS. 16. A BERM OR OTHER SPILL PROTECTION MEASURE SHALL BE USED FOR ANY TEMPORARY FUEL STORAGE TANK ON-SITE.
- 17. IF "SUMP" PUMPS ARE USED TO REMOVE WATER FROM EXCAVATED AREAS, FILTER THE DISCHARGE TO REMOVE SEDIMENT AND OTHER POLLUTANTS BEFORE THE WATER LEAVES THE SITE.

 18. TO PREVENT DAMAGE TO VEGETATION IN DOWNSTREAM WATER COURSES, LIMIT ANY PROPOSED LIME STABILIZATION
- OPERATIONS TO THAT WHICH CAN BE MIXED AND COMPACTED BY THE END OF EACH WORK DAY. GEOTEXTILE FABRIC
- IS NOT EFFECTIVE IN FILTERING LIME SINCE THE GRAIN SIZE IS SMALLER THAN THE OPENING IN THE FABRIC 19. VEHICLE PARKING AREAS, STAGING AREAS, STOCKPILES, SPOILS, ETC. SHALL BE LOCATED SUCH THAT THEY WILL NOT
- ADVERSELY AFFECT STORM WATER QUALITY. OTHERWISE, COVERING OR ENCIRCLING THE AREAS WITH PROTECTIVE MEASURES SHALL BE NECESSARY.
 20. STORE ALL TRASH AND BUILDING MATERIALS WASTE IN AN ENCLOSURE UNTIL IT CAN BE PROPERLY DISPOSED OF AT
- THE APPROPRIATE OFF-SITE FACILITIES.
- 21. TRACKING OF SEDIMENT OFF-SITE BY TRUCK TRAFFIC SHALL BE HANDLED THROUGH REGULAR CLEANING.
 22. INSPECTIONS SHALL BE CONDUCTED BY THE PERMITEE ONCE EVERY TWO WEEKS AND WITHIN 24 HOURS AFTER STORM
- EVENT OF 0.5 INCHES OR MORE, THE INSPECTIONS WILL INCLUDE: 22.A. DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN STABILIZED. 22.B. AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
- 22.C. STRUCTURAL CONTROL MEASURES.
- 22.D. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.
 22.E. IDENTIFICATIONS OF MEASURES THAT NEED TO BE MAINTAINED, MODIFIED, OR ADDED TO CORRECT PROBLEMS.
 23. CONTRACTOR SHALL PREVENT THE DISCHARGE OF BUILDING MATERIALS, LIME, CEMENT, CONCRETE, ASPHALT, AND
- MORTAR TO THE MS4 OR TO THE WATERS OF THE UNITED STATES. 24. PERMANENTLY STABILIZE EXPOSED SOIL, WITHIN AND ADJACENT TO THE SITE, THAT IS DISTURBED BY VEHICLES,
- GRADING AND OTHER CONSTRUCTION ACTIVITIES. 25. CONTAIN ALL RUNOFF FROM MATERIAL USED IN SUBGRADE STABILIZATION.
- 26. MATERIAL STOCKPILES SHALL BE COVERED BY PLASTIC OR SURROUNDED BY EROSION CONTROL STRUCTURES TO CONTROL SEDIMENT RELEASES.

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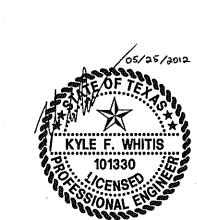
ATTESTED BY:

SIGNATURE: Melle

DATE REVISED: APRIL 23, 2013

ENGINEER OF RECORD: KYLE F. WHITIS, P.E.

27. ALL DISTURBED AREAS IN THE RIGHT-OF-WAY SHALL BE SODDED. 28. 75-80% OF ALL DISTURBED AREAS TO HAVE A MIN. OF 1" TALL GRASS PRIOR TO ENGINEERING ACCEPTANCE.



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MAY 2012 **C7.3** N.T.S. GKH

SCALE

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

PK FILE: 3273-11.381

DESIGN DRAWN

DATE

DWG FILE: 3273-11.381EP.DWG

NOTES