WATERLINE REPLACEMENT PROJECTS

DICKEY ST, JOE WHITE ST, NORTH GOLIAD, SOUTH GOLIAD, WILLIAMS

CITY OF ROCKWALL

"THE NEW HORIZON"

JANUARY 2011

BILL CECIL - MAYOR

DAVID SWEET

MARK RUSSO

GLEN FARRIS - MAYOR PRO-TEM

CLIFF SEVIER

MATT SCOTT

MARGO NIELSEN

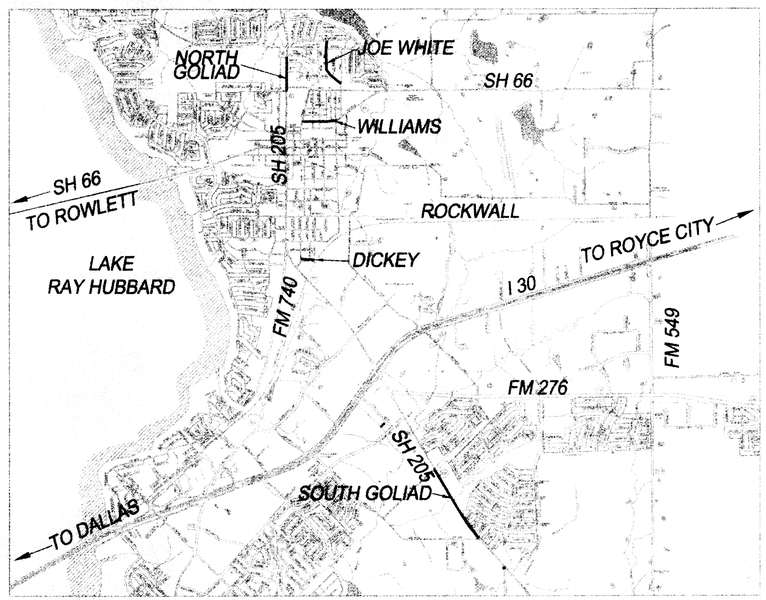
CITY COUNCIL

JULIE COUCH

CITY MANAGER

CHUCK TODD, P.E.

DIRECTOR OF PUBLIC WORKS



VICINITY MAP

N.T.S.

SHEET INDEX

RECORD DRAWING

This Record Drawing reflects herein the appropriate location of the constructed work based on information provided by Contractor(s). The accuracy of the information provided was not independently verified by the Engineer.

PBSJ

Signed: R. Kyle Jones Date: 7-13-2012

PBSJ

AN ATKINS COMPANY

TBPE REG. #F-474

18383 PRESTON ROAD, SUITE 500

DALLAS, TEXAS 75252

972-818-7275

STATE OF TEXAS R. KYLE JONES 101126 LICENSED PROFESSIONAL ENGINEER

R. Kyle Jones, P.E.

1-13-2011

CITY OF ROCKWALL - WATERLINE REPLACEMENT PROJECTS

GENERAL NOTES

1. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL BE FAMILIAR WITH THE PLANS INCLUDING ALL NOTES, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (3rd EDITION), AND CITY STANDARDS FOR CONSTRUCTION AND ANY OTHER APPLICABLE STANDARDS AND SPECIFICATIONS RELEVANT TO THE COMPLETION OF THE WORK SPECIFIED. FAILURE ON THE PART OF THE CONTRACTOR TO BE FAMILIAR WITH ALL STANDARDS AND SPECIFICATIONS PERTAINING TO THIS WORK SHALL IN NO WAY RELIEVE THE CONTRACTOR OF RESPONSIBILITY OF PERFORMING THE WORK IN ACCORDANCE WITH ALL APPLICABLE STANDARDS AND SPECIFICATIONS.

2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF ROCKWALL STANDARD DETAILS AND STANDARD SPECIFICATIONS OF THE CITY OF ROCKWALL WHICH ADOPTED THE STANDARD SPECIFICATIONS OF PUBLIC WORKS CONSTRUCTION, NORTH CENTRAL TEXAS. (COG-3rd EDITION) ALONG WITH CITY OF ROCKWALL SPECIAL PROVISIONS AND ANY OTHER SPECIAL SPECIFICATIONS CONTAINED HEREIN. COPIES MAY BE OBTAINED FROM THE "NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS", P.O. 5888, ARLINGTON, TEXAS 76005-5888. PH (817) 695-9140.

3. IN THE EVENT AN ITEM IS NOT COVERED IN THE CITY OF ROCKWALL CONSTRUCTION STANDARDS, SPECIFICATIONS, AND DETAILS, THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) STANDARD SPECIFICATIONS 3RD EDITION FOR PUBLIC WORKS CONSTRUCTION SHALL APPLY WITH CONCURRING NOTIFICATION TO THE CITY ENGINEER AND PROJECT ENGINEER. THE CITY ENGINEER SHALL HAVE THE FINAL DECISION ON ALL CONSTRUCTION MATERIALS, METHODS, AND PROCEDURES.

4. CONTRACTOR SHALL HAVE IN HIS POSSESSION, PRIOR TO CONSTRUCTION, ALL NECESSARY PERMITS, LICENSES, ETC. CONTRACTOR SHALL HAVE AT LEAST ONE SET OF APPROVED ENGINEERING PLANS AND SPECIFICATION ON-SITE AT ALL TIMES.

5. THESE PLANS, PREPARED BY PBS&J INC. DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION, CONTRACTOR, OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF PBS&J INC.S REGISTERED PROFESSIONAL ENGINEER(S) HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED IN THESE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS REGARDING TRENCH SAFETY. THE CONTRACTOR SHALL FURNISH THE CITY FOR REVIEW, AFTER AWARD OF THE CONTRACT BY THE CITY COUNCIL, AN EXCAVATION SAFETY SYSTEM PLAN FOR THE ENTIRE PROJECT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

6. CONSTRUCTION INSPECTION WILL BE PERFORMED BY REPRESENTATIVES OF THE OWNER, ENGINEER, CITY, GEOTECHNICAL ENGINEER, AND REVIEWING AUTHORITIES AND AGENCIES. UNRESTRICTED ACCESS SHALL BE PROVIDED TO THEM AT ALL TIMES. CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND SCHEDULING REQUIRED INSPECTIONS.

7. CITY OF ROCKWALL IS TO BE NOTIFIED BY TELEPHONE 48 HOURS IN ADVANCE OF ALL CONSTRUCTION FOLLOWED BY A LETTER OF CONFIRMATION. IF WATER SERVICE IS TO BE INTERRUPTED DURING CONSTRUCTION, ALL AFFECTED CITIZENS SHALL BE GIVEN WRITTEN NOTICE A MINIMUM OF THREE DAYS PRIOR TO DISRUPTION.

8. CONTRACTOR SHALL GIVE NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES AFFECTED BY THESE OPERATIONS PRIOR TO COMMENCEMENT OF WORK.

9. THE CONTRACTOR MUST OBTAIN A CONSTRUCTION METER THROUGH THE CITY.

10. THE CONTRACTOR SHALL OBTAIN THE APPROVAL OF THE CITY OF ROCKWALL TO WORK AFTER 7:00 PM.

CONSTRUCTION SITE

1. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE AND NOTIFY THE OWNERS REPRESENTATIVE OF ANY OMISSIONS, DISCREPANCIES, OR DIMENSIONAL ERRORS PRIOR TO BEGINNING OR FABRICATING ANY WORK OR MATERIALS. OTHERWISE THE CORRECTIONS (AND ASSOCIATED COST) WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

2. THE CONTRACTOR MUST HAVE A WRITTEN AGREEMENT WITH THE PROPERTY OWNER ON FILE WITH THE CITY BEFORE THE CONTRACTOR MAY USE OR PLACE ANY MATERIALS OR EQUIPMENT ON PRIVATE PROPERTY. LETTERS OF FINAL APPROVAL AND RELEASE FROM THE AFFECTED PROPERTY OWNER(S) MUST BE SUBMITTED TO THE CITY BEFORE FINAL PAYMENT WILL BE AUTHORIZED ON THIS PROJECT. NO EXCESS EXCAVATED MATERIAL SHALL BE DEPOSITED IN LOW AREAS OR ALONG ANY NATURAL DRAINAGE WAY, WITHOUT WRITTEN PERMISSION FROM THE ENGINEER. IF THE CONTRACTOR PLACES EXCESS MATERIAL IN AREAS WITHOUT WRITTEN PERMISSION, HE WILL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM SUCH FILL AND HE SHALL REMOVE THE MATERIAL AT HIS OWN COST IF THE CITY SO DIRECTS.

3. ALL CONTRACTORS MUST CONFINE THEIR ACTIVITIES TO THE WORK AREA. NO ENCROACHMENTS OUTSIDE THE TEMPORARY CONSTRUCTION EASEMENT WILL BE ALLOWED. ANY DAMAGE RESULTING THEREFROM SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, WITH EQUAL OR BETTER QUALITY MATERIAL AT THE CONTRACTORS EXPENSE.

4. CONTRACTOR SHALL BE RESPONSIBLE FOR REESTABLISHING ALL MONUMENTATION INVOLVED IN CONSTRUCTION TO THE SATISFACTION OF THE CITY ENGINEERING AND SURVEYING DEPARTMENTS. ALL MONUMENTS MUST BE ESTABLISHED BY A RPLS.

5. EXISTING IMPROVEMENTS INCLUDING, BUT NOT LIMITED TO FENCES, DRIVEWAYS, SIDEWALKS, PAVEMENT, CURBS, UTILITY PIPELINES AND DRAINAGE STRUCTURES WHICH ARE REMOVED OR ALTERED TO PERMIT INSTALLATION OF THE WORK SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR, AT THE CONTRACTORS EXPENSE, IN THE SAME LOCATION AND IN CONDITION AS GOOD AS OR BETTER THAN THEY WERE FOUND.

6. ALL SHRUBS, BUSHES, GRASS, SPRINKLER SYSTEMS OR OTHER LANDSCAPING DAMAGED BY CONSTRUCTION SHALL BE REPLACED OR REPAIRED AT NO EXTRA COST TO THE CITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVISIONS AND ADJUSTMENTS TO THE PRIVATE SPRINKLER SYSTEMS IN THE AREA DISTURBED BY THE CONTRACTOR. REVISIONS AND ADJUSTMENTS SHALL BE APPROVED BY THE CITY. NO EXTRA PAY ITEM.

7. ALL GATES SHALL BE KEPT CLOSED TO CONTROL ACCESS TO THE PROJECT SITE. THE CONTRACTOR SHALL MAINTAIN SUITABLE CONSTRUCTION ACCESS TO THE ENGINEER AND THE CITY AT ALL TIMES DURING CONSTRUCTION.

8. MAINTAIN FIRE EMERGENCY VEHICLE ACCESS TO FIRE HYDRANTS THROUGHOUT CONSTRUCTION.

9. ALL REGULATORY SIGNS DISTURBED BY CONSTRUCTION SHALL BE RELOCATED TO THE OWNERS SATISFACTION. ALL REGULATORY SIGNS IN CONFLICT WITH PAVING SHALL BE RELOCATED AS DIRECTED BY THE OWNER.

10. NO TREES SHALL BE REMOVED EXCEPT THOSE INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

11. MAIL BOXES AND MAIL SERVICES SHALL BE MAINTAINED THROUGHOUT THE PROJECT. PAYMENT FOR REMOVAL AND TEMPORARY RELOCATION OF ANY MAIL BOXES SHALL BE SUBSIDIARY TO OTHER ITEMS OF WORK. THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY MAIL BOXES WITH THE STREET ADDRESS AFFIXED AT ALL LOCATIONS WHERE EXISTING MAIL BOXES WIL BE TEMPORARILY REMOVED DURING CONSTRUCTION.

12. THE LOCATION FOR THE DISPOSAL OF CONSTRUCTION MATERIAL SHALL BE APPROVED BY THE CITY OF ROCKWALL ENGINEERING DIVISION PRIOR TO THE START OF CONSTRUCTION.

EXISTING UTILITIES

1. ALL EXISTING UTILITIES ARE AS PER AVAILABLE RECORDS. THE CONTRACTOR SHALL FIELD VERIFY DEPTH AND LOCATION OF ALL UTILITIES.

2. EXISTING UTILITIES AND UNDERGROUND FACILITIES INDICATED ON THESE PLANS HAVE BEEN LOCATED FROM REFERENCE INFORMATION SUPPLIED BY VARIOUS OWNERS OF THE FACILITIES. THE ENGINEER DOES NOT ACCEPT RESPONSIBILITY FOR THE UTILITY LOCATIONS SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY BOTH HORIZONTALLY AND VERTICALLY THE LOCATION OF ALL EXISTING UTILITIES AND UNDERGROUND FACILITIES PRIOR TO CONSTRUCTION, TO TAKE NECESSARY PRECAUTIONS IN ORDER TO PROTECT ALL FACILITIES ENCOUNTERED AND TO NOTIFY THE ENGINEER PROMPTLY OF ALL CONFLICTS OF THE WORK WITH EXISTING FACILITIES. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGES BY THE CONTRACTOR TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

3. THE CONTRACTOR SHALL AVOID DAMAGING ANY EXISTING SPRINKLER SYSTEM THAT MAY BE IN THE CONSTRUCTION AREA AND WILL BE RESPONSIBLE FOR REPAIRS TO ANY HEADS, LINES, VALVES, OR CONTROL WIRING DAMAGED. REPLACEMENT, AS NECESSARY, SHALL BE WITH LIKE OR BETTER MATERIAL INSTALLED BY A LICENSED IRRIGATOR, AT THE CONTRACTOR'S EXPENSE.

4. CONTRACTOR TO COORDINATE ANY REQUIRED FRANCHISE UTILITY RELOCATIONS WITH CITY, ENGINEER, AND UTILITY COMPANY.

PHONE NUMBERS FOR UTILITIES

UTILITY LINE LOCATOR 800-DIG-TESS
ONCOR GROUP - REEVES PARTAIN 214-875-2256
SWB TELEPHONE - JOE WORLEY 403-457-2306
CHARTER COMMUNICATIONS - MARK ALLEN 972-771-0202
CITY OF ROCKWALL - 972-771-7790
FEC ELECTRIC - LORI TAYLOR 903-455-1715
NTMWD - BOB QUINN 972-442-5405

ATMOS - DINAH WOOD 972-485-6277

GENERAL CONSTRUCTION

1. THE LOCATIONS OF DRIVEWAYS AS SHOWN ON THESE PLANS ARE APPROXIMATE. ACCURATE LOCATIONS SHALL BE DETERMINED AT THE TIME OF CONSTRUCTION AFTER CONSULTATION WITH THE PROPERTY OWNERS.

2. REMOVAL AND REPLACEMENT OF FENCE WILL BE MEASURED FOR PAYMENT PER LINEAR FOOT OF FENCE RESET IN ITS NEW LOCATION, WITH EQUAL OR BETTER MATERIALS.

3. ALL FILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY IN A MAXIMUM OF 8" (EIGHT) INCH LIFTS COMPACTED WITH A SHEEP'S FOOT ROLLER, OR PER GEOTECHNICAL ENGINEERS REPORT.

4. SOD ALL AREAS FROM BACK OF CURB TO ROW. SOIL UNDER SOD SHALL BE 4" OF OFF SITE TOP SOIL APPROVED BY CITY OF ROCKWALL. ALL OTHER DISTURBED AREAS SHALL BE SEEDED WITH BERMUDA GRASS DURING SUMMER MONTHS (MAY 1 TO AUGUST 30). WINTER RYE OR FESCUE GRASS MAY BE PLANTED DURING TIMES OTHER THAN THE SUMMER MONTHS AS A TEMPORARY MEASURE UNTIL SUCH TIME AS THE PERMANENT PLANTING CAN BE MADE. DISTURBED AREAS THAT ARE SEEDED SHALL BE CHECKED PERIODICALLY, TO SEE THAT GRASS COVERAGE IS PROPERLY MAINTAINED. DISTURBED AREAS SHALL BE WATERED, FERTILIZED, AND RESEEDED IF NECESSARY. RESEEDING IF NECESSARY WILL BE INCIDENTAL.

PAVING

1. ALL REINFORCING STEEL AND DOWEL BARS IN PAVEMENT SHALL BE SUPPORTED AND MAINTAINED AT THE CORRECT CLEARANCES BY THE USE OF BAR CHAIRS OR OTHER APPROVED SUPPORT.

2. THE USE OF WOOD FORMS FOR PAVEMENT CONSTRUCTION WILL NOT BE PERMITTED.

3. DUMMY JOINTS SHALL BE SAWED IN THE PAVEMENT ON THIS PROJECT. DUMMY JOINTS WILL BE SPACED APPROXIMATELY 15-20 FEET ON CENTERS UNLESS DIRECTED OTHERWISE BY THE CITY. SPACING VARIATIONS SHALL BE MADE AT BLOCKOUTS. CONSTRUCTION JOINTS AND STREET INTERSECTIONS TO LINE UP WITH EXISTING PAVING JOINTS AS DIRECTED BY THE CITY. THE SPACING BETWEEN ANY JOINT SHALL NOT BE LESS THAN 15 FEET NOR MORE THAN 20 FEET. ALL DUMMY JOINTS WILL BE SAWED NO LATER THAN 12 HOURS AFTER THE PLACEMENT OF THE PAVEMENT AS DIRECTED BY THE CITY. SEE THE STANDARD CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION.

4. ADJUSTMENT OF UNPAVED DRIVES BEHIND PROPERTY LINE TO GRADE, AND RESTORATION OF THE SURFACE TO EQUAL OR BETTER THAN THE ORIGINAL WILL BE INCIDENTAL ON THIS PROJECT. NO PAY ITEMS WILL BE PROVIDED, UNLESS LIMITS ARE SHOWN ON PLANS.

5. PAY LIMITS FOR 6" COMPACTED THICKNESS GRAVEL SURFACE, FOR RESTORING UNPAVED DRIVES BEHIND THE PROPERTY LINE WILL BE PAID FOR AS DIMENSIONED ON THE PLANS AND WILL NOT BE MEASURED IN THE FIELD FOR PAYMENT.

6. BARRIER FREE RAMPS WILL BE BUILT WITH THIS PROJECT. LOCATIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO CLEAR OBSTRUCTIONS. RAMPS SHALL BE TRUNCATED DOME PLATES AS SHOWN IN THE CITY OF ROCKWALL STANDARD DETAILS CROSS SLOPES ON RAMPS SHALL NOT EXCEED 2%.

7. DRIVEWAYS SHALL BE CONSTRUCTED TO RIGHT-OF-WAY UNLESS NOTED OTHERWISE IN PLANS AND/OR CROSS SECTIONS. ALL DRIVEWAYS SHALL MATCH EXISTING ELEVATIONS AT END OF RECONSTRUCTION. ALL DRIVEWAY MATERIALS SHALL MATCH EXISTING MATERIALS.

8. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL LEAD WALKS WITHIN THE ROW. SLOPES SHALL NOT EXCEED 12:1. IF EXISTING GRADES CANNOT BE MATCHED BY THE EDGE OF ROW, REINFORCED CONCRETE STEPS SHALL BE INSTALLED INSIDE THE ROW.

9. EXISTING PAVEMENT SHOWN TO BE REMOVED SHALL BE DISPOSED OF BY THE CONTRACTOR. NEW PAVEMENT SHALL BE PROVIDED WITH A LONGITUDINAL BUTT JOINT (SD-3) AND WITH A TRANSVERSE STREET HEADER (SD-1) ON EACH END. DOWEL BARS SHALL BE DRILLED AND EPOXIED INTO EXISTING PAVEMENT. TRANSVERSE EXPANSION JOINTS (SD-3) SHALL BE INSTALLED BY THE CONTRACTOR AT ALL STREET HEADER LOCATIONS.

10. CONTRACTOR SHALL REMOVE EXISTING 4-INCH PAVEMENT MARKING BUTTONS, INCLUDING REFLECTIVE AND NON-REFLECTIVE LANE MARKERS, CHANNELIZING BUTTONS, AND PAVEMENT MARKINGS FOR THE ENTIRE LENGTH OF THE PROJECT. BUTTON REMOVAL SHALL BE SUBSIDIARY TO TRAFFIC BUTTON INSTALLATION. ALL PAVEMENT MARKINGS SHALL BE INSTALLED PER CITY OF ROCKWALL STANDARDS. TEMPORARY PAVEMENT LANE MARKING TABS WILL BE SUBSIDIARY TO TRAFFIC BUTTON INSTALLATION. PLACEMENT OF THE TEMPORARY TABS WILL BE DETERMINED BY THE OWNER.

11. DRIVEWAY RECONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF ROCKWALL STANDARD DETAILS (SD-4) 5" THICK 3600 PSI CONCRETE.

12. SUBGRADE UNDER ALL PAVEMENT SHALL BE A MINIMUM OF 6 INCHES THICK AND SHALL BE STABILIZED WITH AT LEAST 27 LBS. PER SQUARE YARD HYDRATED LIME, COMPACTED TO A DENSITY NOT LESS THAN 95 PERCENT. LABORATORY TESTS MUST BE SUBMITTED TO THE ENGINEERING DEPARTMENT FOR APPROVAL TO DETERMINE AMOUNT OF LIME REQUIRED. LABORATORY TEST MAY BE WAIVED PROVIDED AT LEAST 36 LBS. OF LIME PER SQUARE YARD IS USED. IF NO LIME IS USED, PAVEMENT MUST BE 2" THICKER THAN EXISTING (MIN 8") AND 3600 PSI MINIMUM.

13. ALL SIDEWALK PAVEMENT SHALL BE MINIMUM 4" THICK AND 3000 PSI CONCRETE WITH A MAXIMUM OF 1-1/2" SAND.

DRAINAGE

1. MAINTAIN NORMAL PROJECT DRAINAGE UNTIL NEW DRAINAGE FACILITIES ARE FUNCTIONAL, INCLUDING, WHERE NECESSARY, INTERIM REPLACEMENT OF EXISTING DRAINAGE STRUCTURES REMOVED FOR CONSTRUCTION OF NEW DRAINAGE FACILITY.

2. MANHOLE LIDS ON STORM SEWER INLETS NEED TO BE CENTERED OVER SEWER LATERALS

WATER / WASTEWATER

1. CONTACT CITY OF ROCKWALL UTILITY DEPARTMENT, 48 HOURS PRIOR TO CONSTRUCTION FOR ALL WATER OR WASTEWATER MODIFICATIONS, LOCATES, OR TURNOFFS.

2. THE EXISTING WATER AND SANITARY SEWER SERVICE MUST BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT.

3. IT WILL BE THE RESPONSIBILITY OF CONTRACTOR TO PROTECT ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ETC.

4. CONTRACTOR SHALL ADJUST ALL VALVES, VALVE BOXES, METER BOXES, MANHOLE RIMS, AND CLEAN OUTS TO GRADE.

5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE IF THERE ARE ANY ADDITIONAL WATER SERVICES NOT SHOWN ON THESE PLANS AND TO NOTIFY THE ENGINEER. THE CONTRACTOR WILL BE RESPONSIBLE TO RECONNECT ALL SERVICES WHETHER SHOWN ON THESE PLANS OR NOT.

6. BLOCKING OF ALL WATER AND SEWER LINES AND EMBEDMENT SHALL CONFORM TO CITY OF ROCKWALL STANDARDS.

7. BLUE E.M.S. MARKERS SHALL BE INSTALLED AT ALL VALVES, SERVICES, AND CHANGES IN DIRECTION ON WATERLINES. (NO EXTRA PAY ITEM)

8. GREEN EMS MARKERS SHALL BE INSTALLED AT ALL CLEAN OUTS, MANHOLES, SERVICES AND CHANGES IN DIRECTION FOR SANITARY SEWER LINES. (NO EXTRA PAY ITEM)

9. CONTRACTOR SHALL ABANDON IN PLACE EX WATER AND SEWER MAINS AS NOTED IN THE PLANS.

10. IF CONNECTING TO EXISTING METER, REPLACE METER BOX WITH NEW BOX.

11. IF THERE IS A VACANT LOT, SET 1" WATER SERVICE WITH METER BOX BUT NO METER.

TRAFFIC CONTROL

1. ALL BARRICADES, WARNING SIGNS, LIGHTS, DEVICES, ETC., FOR THE GUIDANCE AND PROTECTION OF TRAFFIC AND PEDESTRIANS MUST CONFORM TO THE INSTALLATION SHOWN IN THE LATEST EDITION OF THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, TEXAS DEPARTMENT OF TRANSPORTATION.

2. NO STOP OR YIELD SIGN IS TO BE RELOCATED OR REMOVED WITHOUT PRIOR APPROVAL BY THE CITY. THE CONTRACTOR MUST OBTAIN PERMISSION FOR ANY CHANGES IN THESE SIGNS.

3. CONTACT THE CITY OF ROCKWALL TRAFFIC DEPARTMENT AT (972) 771-7746, 48 HOURS PRIOR TO CONSTRUCTION AT ALL SIGNALIZED INTERSECTIONS.

4. ALL SCHOOL ZONE SIGNS WILL BE RELOCATED BY THE CITY OF ROCKWALL.

5. BEFORE MOVING ANY DEPARTMENT OF HIGHWAY SIGNS OR MARKERS, CONTACT TXDOT AT 214-320-6100.

6. THE CONTRACTOR MUST MAINTAIN A MINIMUM OF ONE LANE OF TRAFFIC BOTH EASTBOUND AND WESTBOUND. THE CONTRACTOR SHALL COORDINATE AND OBTAIN APPROVAL FOR THE CITY PRIOR TO ANY DETOURS OR LANE CLOSURES.

7. ACCESS TO ABUTTING PROPERTY DURING THE CONSTRUCTION OF THIS PROJECT MUST BE MAINTAINED FOR EMERGENCY AND LOCAL TRAFFIC AT ALL TIMES.

8. ALL PERMANENT PAVEMENT MARKINGS ARE TO BE INSTALLED PER THE CITY OF ROCKWALL STANDARD DETAILS AND PER THE TEXAS MANNUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

9. THE CONTRACTOR IS TO ADJUST THE TRAFFIC SIGNAL HEADS AT ALL INTERSECTIONS TO ALIGN WITH THE NEW TRAFFIC LANE WIDTHS (NO EXTRA PAY ITEM).

10. PERMANENT PAVEMENT MARKINS SHALL INCLUDE STOP BARS AT THE INTERSECTIONS. NO CENTERLINE STRIPING.

STORM WATER POLLUTION PREVENTION / EROSION CONTROL

1. THE CONTRACTOR SHALL SUBMIT AN ENVIRONMENTAL PROTECTION PLAN FOR THE PROJECT AT THE PRECONSTRUCTION CONFERENCE AS REQUIRED IN THE PLANS AND SPECIFICATIONS, INCLUDING SOIL EROSION CONTROL MEASURES. WORK MAY NOT BEGIN ON THIS PROJECT UNTIL AN APPROVED ENVIRONMENTAL PROTECTION PLAN IS ON FILE WITH THE CITY.

2. THE CONTRACTOR WILL BE RESPONSIBLE FOR SUBMITTING A NOTICE OF INTENT (NOI) TO THE ENVIRONMENTAL PROTECTION AGENCY.

3. UNLESS OTHERWISE NOTED, ALL STORM WATER POLLUTION PREVENTION MEASURES SHALL CONFORM TO THE CITY OF ROCKWALL STANDARDS OR TO APPLICABLE GUIDELINES OF THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS, STORM WATER QUALITY BEST MANAGEMENT PRACTICES FOR CONSTRUCTION ACTIVITIES, LATEST EDITION OR AMENDMENTS, FOR COMPLIANCE WITH NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM REQUIREMENTS.

4. MAINTAIN ALL WORK AND MATERIAL STORAGE AREAS IN ORDERLY CONDITION, FREE OF DEBRIS AND WASTE, ON COMPLETION OF CONSTRUCTION. CLEAN UP THE PROJECT AND ADJACENT AFFECTED AREAS TO ACCEPTABLE CONDITION AS PROVIDED IN THE GENERAL CONDITIONS.

5. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS AND SIDEWALKS ADJACENT TO THE PROJECT FREE OF MUD AND DEBRIS FROM CONSTRUCTION AT ALL TIMES.

6. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SURFACE DRAINAGE AND EROSION CONTROL FACILITIES ON SITE DURING CONSTRUCTION.

7. THE SITE SHALL BE REVIEWED BY OWNER OR HIS REPRESENTATIVE WEEKLY AND AFTER ANY MAJOR STORM. ADJUSTMENTS/REPAIRS TO THE EROSION CONTROL WILL BE MADE AS NEEDED.

8. WASHING OF EQUIPMENT, INCLUDING TRUCKS, SHALL NOT BE PERMITTED ON THE JOB SITE EXCEPT AT THE STABILIZED CONSTRUCTION EXIT.

RECORD DRAWING
This Record Drawing reflects herein the appropriate location of the constructed work based on information provided by Contractor(s). The accuracy of the information provided was not independently verified by the Engineer.
PBSJ
R. Kyle Jones 7-15-2012
Signed: Date:

R. KYLE JONES 101126 PROFESSIONAL ENGINEER STATE OF TEXAS
July 4, 2011

CITY OF ROCKWALL
WATERLINE REPLACEMENT PROJECTS
GENERAL NOTES

"THE NEW HORIZON"

NO.	REVISION	BY	DATE

PBSJ TBPE #F-474
18383 PRESTON ROAD ~ SUITE 500
DALLAS, TEXAS 75252
PH (972) 976-2678 FAX (972) 980-2609

PROJ. ID NO. 10007198
DESIGN: RKJ
CHECKED: TBS
DATE: JANUARY 2011
DRAWN: RKJ
APPROVED: PBS&J
FILE:

SCALE: HOR: 1"=20'

SHEET 2 OF 13

QUANTITY SUMMARY SHEET

ITEM NO.	DESCRIPTION	UNIT			DICKEY 01	JW 01	JW 02	NG 01	NG 02	SG 01	SG 02	SG 03	KER 01	WILL 01	ACTUAL TOTAL
	WATER UTILITIES														
300	Mobilization	LS													1
301	6" C-900 Class 200 PVC Water Pipe	LF					10								10
302	8" C-900 Class 200 PVC Water Pipe	LF			527	1010	843	1055	212	136	7	17	480	497	4784
303	12" C-900 Class 200 PVC Water Pipe	LF								1000	1000	875			2875
304	2" C-900 Class 200 PVC Water Pipe	LF											295	102	397
305	6" Gate Valve	EA				1		1	1						3
306	8" Gate Valve	EA			3	3	5	7	3	3	1		3	1	29
307	12" Gate Valve	EA								2	1	1			4
308	6" Tapping Sleeve & Valve	EA				2			1	1		1			5
309	8" Tapping Sleeve & Valve	EA					1			2	1		2		6
310	16"x8" Tapping Sleeve & Valve	EA							1						1
311	Install Fire Hydrant Assembly including 6" Valve	EA			1	3	3	5	1	1			2	1	17
312	1" Service including Metering Box and Connection to Existing Service	EA			10	20	13	7	1	3			2	4	60
313	2" Service including Metering Box and Connection to Existing Service	EA			9								4	1	14
314	Meter Box	EA			1	2									3
315	Abandon Existing Valve	EA					3			3					6
316	Connect to Existing 2" WL	EA											1		1
317	Connect to Existing 6" WL	EA				2				1		1			4
318	Connect to Existing 8" WL	EA			1		1	1		2			2	2	9
319	Connect to Existing 12" WL	EA										1			1
320	Remove Existing 12" Plug	EA										1			1
321	Remove Existing 8" Plug	EA												1	1
322	Bore 1" Service Line	LF			52									58	110
323	Bore 2" WL	LF											30	42	72
324	Bore 8" WL	LF				112	269	178	35	27			127		748
325	Bore 12" WL	LF								227	60				287
326	Concrete Encasement	LF							180					21	201
327	4" Steel Encasement for 1" Service	LF												58	58
328	6" Steel Encasement for 2" Service	LF											30	42	72
329	16" Steel Encasement	LF						51		99	60		37		247
330	12" CMP	LF											7		7
331	Remove & Replace Conc Pvmt	SY			26	88	55							5	174
332	Remove & Replace Asphalt Pvmt	SY			17				28				267		312
333	Remove & Replace Conc Driveway Pvmt	SY			65	166	80	127	9				7	41	495
334	Remove & Replace Exposed Aggregate	SY			10										10
335	Remove & Replace Gravel	SY			12										12
336	Remove & Replace Conc Sidewalk	SF				635	58	2836					102	12	3643
337	Install 4' Conc Sidewalk	SF				285									285
338	Remove & Replace Steps	EA						2							2
339	Ductile Iron Fittings	TON	(lb)	(lb tot)											5.35
	6" 90° Bend	EA	85	85					1						
	8" 11-1/4° Bend	EA	110	440			2							2	
	8" 45° Bend	EA	110	2750	6	9		10							
	8" 90° Bend	EA	125	500		1			1				2		
	12" 45° Bend	EA	200	800						2		2			
	12" 11-1/4° Bend	EA	215	215						1					
	8" x 6" Reducer	EA	95	1140		2	4	5				1			
	12" x 8" Reducer	EA	165	165						1					
	8" x 6" Tee	EA	170	1360	1	3			2				2		
	8" x 8" Tee	EA	180	900	1	1		1	1	1					
	12" x 6" Tee	EA	325	325						1					
	12" x 8" Tee	EA	340	1360						2	1	1			
	12" X 12" Tee	EA	390	390						1					
	2" Plug	EA	5	5									1		
	6" Plug	EA	25	50		2									
	8" Plug	EA	45	135	1				1	1					
	12" Plug	EA	85	85						1					
340	Trench Safety & Support	LF			527	898	584	877	177	882	947	892	323	455	6562
341	SWPPP	LS													1
342	Traffic Control	LS													1

NOTE:
QUANTITIES SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY.
ANY DISCREPANCIES BETWEEN THIS SHEET AND QUANTITIES
APPEARING IN THE BID PROPOSAL SHALL BE OVERRULED BY
VALUES IN THE BID PROPOSAL.

RECORD DRAWING
This Record Drawing is based on information provided by Contractor(s). The accuracy of the information provided was not independently verified by the engineer.
PBSJ 1-13-2012 Date:

STATE OF TEXAS
R. KYLE JONES
101126
PROFESSIONAL ENGINEER
R. Kyle Jones 1-28-2011

CITY OF ROCKWALL
WATERLINE REPLACEMENT PROJECTS
QUANTITY SUMMARY SHEET

"THE NEW HORIZON"

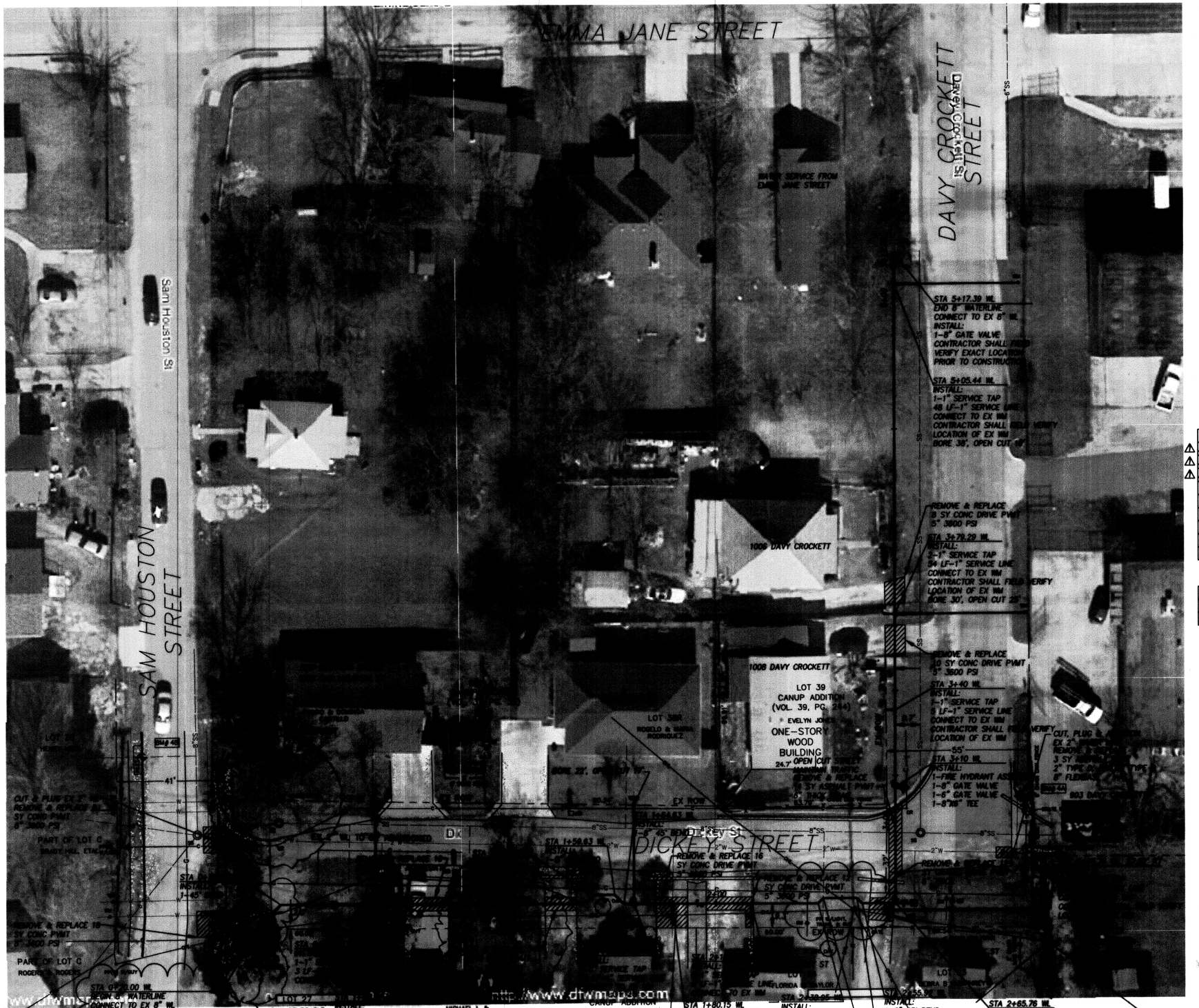
NO.	REVISION	BY	DATE
1	REVISED QUANTITIES	RKJ	1/18/2011
2	REVISED QUANTITIES	RKJ	1/28/2011

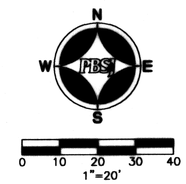
PBSJ TBPE #F-474
18383 PRESTON ROAD ~ SUITE 500
DALLAS, TEXAS ~ 75252
TEL (972) 976-2147 FAX (972) 980-2699

PBSJ JOB NO.: 100010908
DATE: JANUARY 2011
FILE:
DESIGN: RKJ
DRAWN: RKJ
CHECKED: TBS
APPROVED: PBS&J

SCALE: HOR: 1"=20'

SHEET 3 OF 13





ALIGNMENT DATA-DICKEY

STATION	NORTHING	EASTING	DESC.	BEARING
~~0+00.00~~	~~7023754.69~~	~~2594812.99~~	POB	
				S 89°33'49" E
~~0+50.00~~	~~7023754.31~~	~~2594862.99~~	PI	
				N 45°26'11" E
~~0+60.33~~	~~7023761.55~~	~~2594870.35~~	PI	
				S 89°33'49" E
1+46.63	7023760.89	2594956.65	PI	
				N 45°26'11" E
1+51.63	7023764.40	2594960.21	PI	
				S 89°33'49" E
1+59.63	7023764.34	2594968.21	PI	
				S 44°33'49" E
1+64.53	7023760.78	2594971.72	PI	
				S 89°33'49" E
2+68.69	7023759.99	2595075.77	PI	
				N 00°26'11" E
5+17.39	7024008.68	2595077.67	POE	

BENCHMARK DATA-DICKEY

POINT	NORTHING	EASTING	ELEV	STATION/OFFSET
BM #4A	7023800.40	2595123.88	555.63	3+06.53, 47.80' RT
BM #4B	7023818.72	2594787.61	562.08	3+22.29, 288.6' LT

RECORD DRAWING

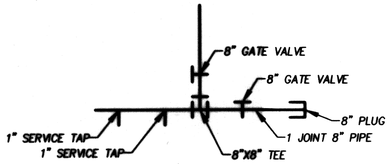
This Record Drawing reflects herein the appropriate location of the constructed work based on information provided by Contractor(s). The accuracy of the information provided was not independently verified by the Engineer.

PBSJ

E. Kyle Jones 7-13-2012

Signed: Date:

STA 2+65.76 DETAIL



R. Kyle Jones 7-13-2012

STATE OF TEXAS
R. KYLE JONES
101128
PROFESSIONAL ENGINEER

CITY OF ROCKWALL
WATERLINE REPLACEMENT PROJECTS

DICKEY WATERLINE REPLACEMENT

STA 0+00 TO STA 5+17

"THE NEW HORIZON"

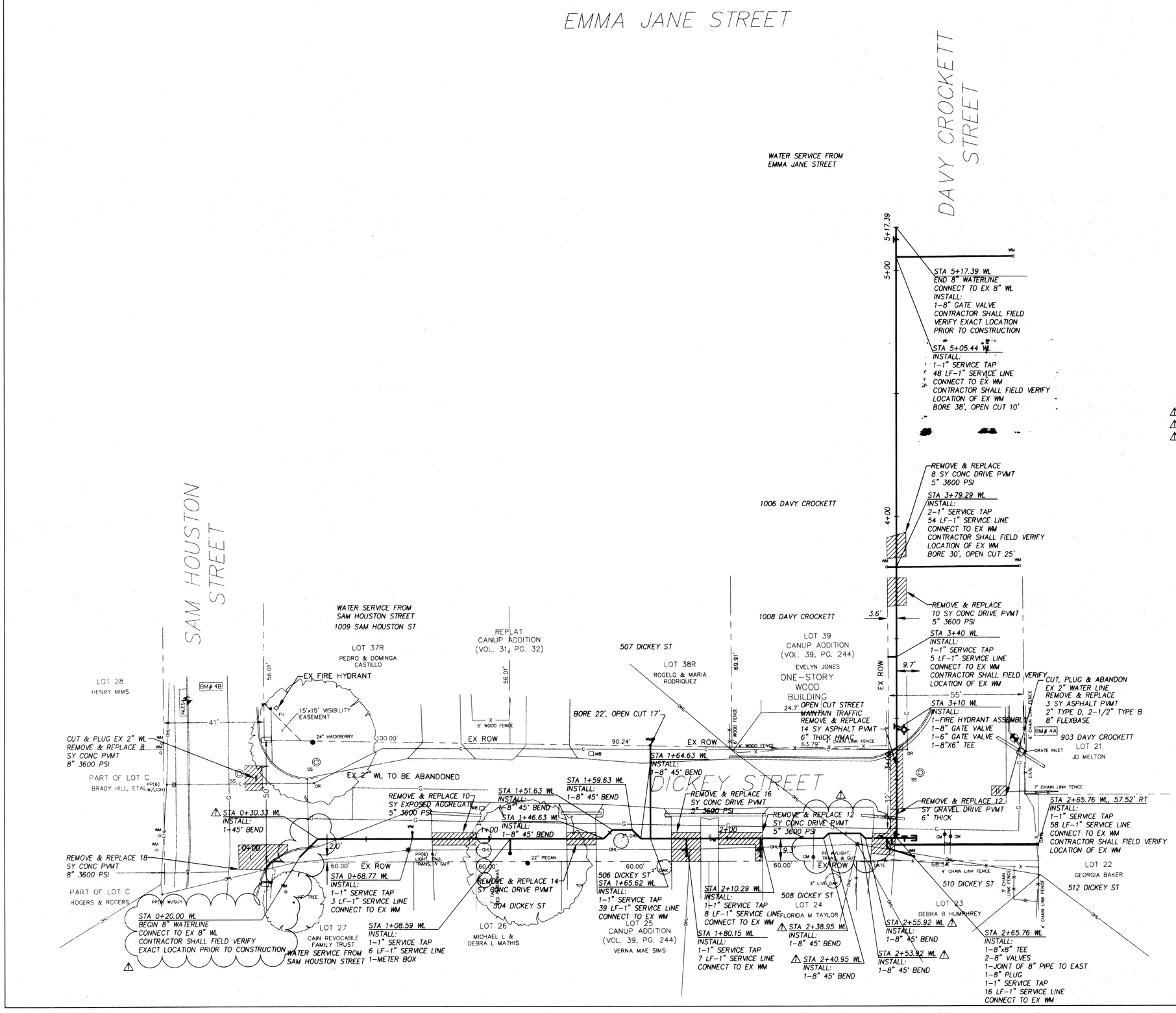
NO.	REVISION	BY	DATE
1	RECORD DWGS	RKJ	5/14/12

PBSJ TBPE #F-474
1001 PRESTON ROAD - SUITE 600
DALLAS, TEXAS 75225
(972) 970-7777 FAX (972) 970-5000

PBSJ JOB NO.: 100010908

DATE: JANUARY 2011

DESIGN: RKJ
DRAWN: RKJ
CHECKED: TBS
APPROVED: PBSJ



ALIGNMENT DATA-DICKEY

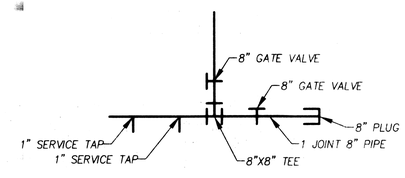
STATION	NORTHING	EASTING	DESC.	BEARING
~~0+00.00~~	~~7023754.69~~	~~2594812.99~~	POB	
~~0+50.00~~	~~7023754.31~~	~~2594862.99~~	PI	S 89°33'49" E
~~0+60.33~~	~~7023761.55~~	~~2594870.35~~	PI	N 45°26'11" E
1+46.63	7023760.89	2594956.65	PI	S 89°33'49" E
1+51.63	7023764.40	2594960.21	PI	N 45°26'11" E
1+59.63	7023764.34	2594968.21	PI	S 89°33'49" E
1+64.53	7023760.78	2594971.72	PI	S 44°33'49" E
2+68.69	7023759.99	2595075.77	PI	S 89°33'49" E
5+17.39	7024008.68	2595077.67	POE	N 00°26'11" E

BENCHMARK DATA-DICKEY

POINT	NORTHING	EASTING	ELEV	STATION/OFFSET
BM #4A	7023800.40	2595123.88	555.63	3+06.53, 47.80' RT
BM #4B	7023818.72	2594787.61	562.08	3+22.29, 288.6' LT

RECORD DRAWING
Redlined Drawing reflects herein the appropriate locations of installed work based on information provided by Contractor. The accuracy of the information provided was not independently verified by the Engineer.
R. Kyle Jones PBSJ 7-13-2012
Signature Date

STA 2+65.76 DETAIL



STATE OF TEXAS
R. KYLE JONES
101126
LICENSED PROFESSIONAL ENGINEER
1-13-2011

CITY OF ROCKWALL
WATERLINE REPLACEMENT PROJECTS

DICKEY WATERLINE REPLACEMENT
STA 0+00 TO STA 5+17

"THE NEW HORIZON"

NO.	REVISION	BY	DATE
1	RECORD DWGS	RKJ	5/14/12

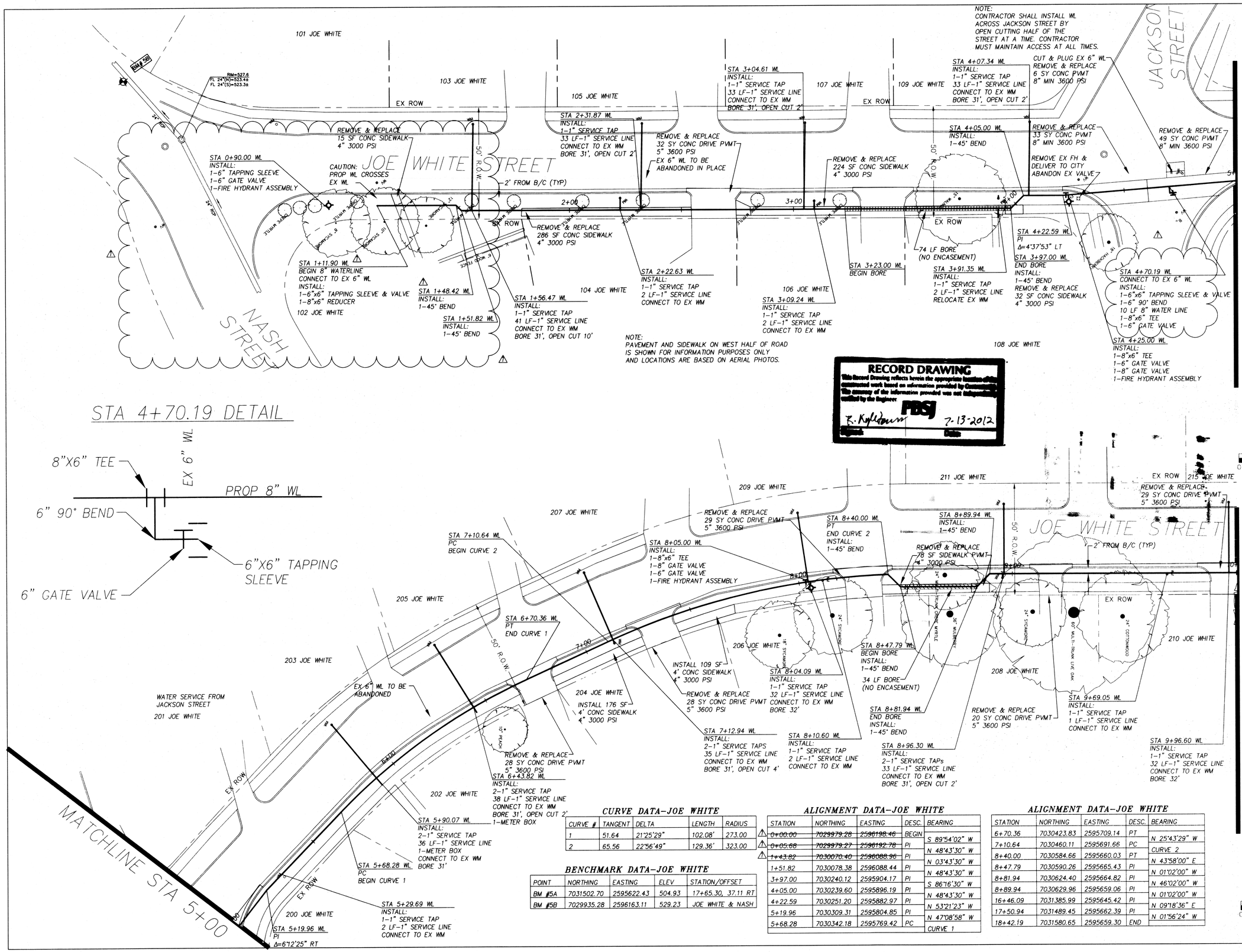
PBSJ TBPE #F-474
18383 PRESTON ROAD ~ SUITE 600
DALLAS, TEXAS 75252
PH. (972) 816-2270 FAX (972) 380-2869

PBSJ JOB NO.: 100010908
DATE: JANUARY 2011
FILE:

DESIGN: RKJ
DRAWN: RKJ
CHECKED: TBS
APPROVED: PBS&J

SCALE: HOR: 1"=20'

SHEET 4A OF 13



STA 4+70.19 DETAIL

CURVE DATA–JOE WHITE

CURVE #	TANGENT	DELTA	LENGTH	RADIUS
1	51.64	21°25'29"	102.08'	273.00
2	65.56	22°56'49"	129.36'	323.00

BENCHMARK DATA–JOE WHITE

POINT	NORTHING	EASTING	ELEV	STATION/OFFSET
BM #5A	7031502.70	2595622.43	504.93	17+65.30, 37.11 RT
BM #5B	7029935.28	2596163.11	529.23	JOE WHITE & NASH

ALIGNMENT DATA–JOE WHITE

STATION	NORTHING	EASTING	DESC.	BEARING
~~0+00.00~~	~~7029979.28~~	~~2596198.46~~	BEGIN	
~~0+05.68~~	~~7029979.27~~	~~2596192.78~~	PI	S 89°54'02" W
~~1+43.82~~	~~7030070.40~~	~~2596088.96~~	PI	N 48°43'30" W
1+51.82	7030078.38	2596088.44	PI	N 03°43'30" W
3+97.00	7030240.12	2595904.17	PI	N 48°43'30" W
4+05.00	7030239.60	2595896.19	PI	S 86°16'30" W
4+22.59	7030251.20	2595882.97	PI	N 48°43'30" W
5+19.96	7030309.31	2595804.85	PI	N 53°21'23" W
5+68.28	7030342.18	2595769.42	PC	N 47°08'58" W
				CURVE 1

ALIGNMENT DATA–JOE WHITE

STATION	NORTHING	EASTING	DESC.	BEARING
6+70.36	7030423.83	2595709.14	PT	
7+10.64	7030460.11	2595691.66	PC	N 25°43'29" W
8+40.00	7030584.66	2595660.03	PT	CURVE 2
8+47.79	7030590.26	2595665.43	PI	N 43°58'00" E
8+81.94	7030624.40	2595664.82	PI	N 01°02'00" W
8+89.94	7030629.96	2595659.06	PI	N 46°02'00" W
16+46.09	7031385.99	2595645.42	PI	N 01°02'00" W
17+50.94	7031489.45	2595662.39	PI	N 09°18'36" E
18+42.19	7031580.65	2595659.30	END	N 01°56'24" W

R. KYLE JONES
101126
STATE OF TEXAS
PROFESSIONAL ENGINEER
1-13-2011

CITY OF ROCKWALL
WATERLINE REPLACEMENT PROJECTS
JOE WHITE WATERLINE REPLACEMENT
STA 0+00 TO STA 10+00

"THE NEW HORIZON"

NO.	REVISION	BY	DATE
1	RECORD DWGS	RKJ	5/14/12

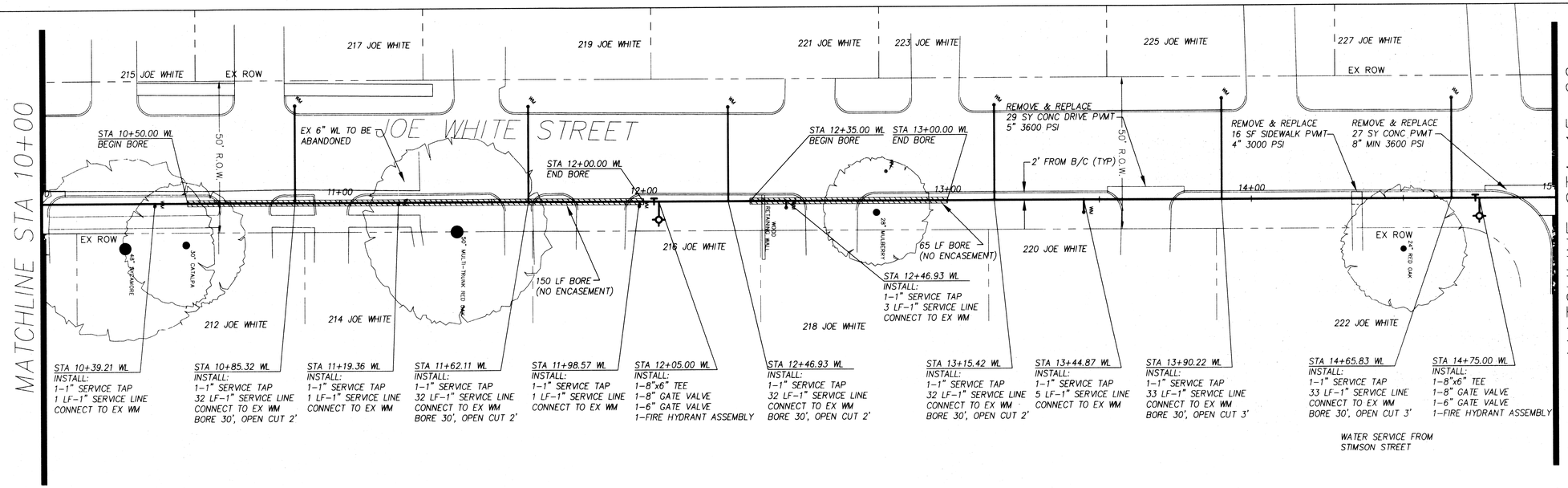
CHECKED: TBS
APPROVED: PBS&J
DESIGN: RKJ
DRAWN: RKJ

PBSJ TBPE #F-474
18383 PRESTON ROAD ~ SUITE 500
DALLAS, TEXAS 75252
PH: (972) 816-7426 FAX (972) 380-2809

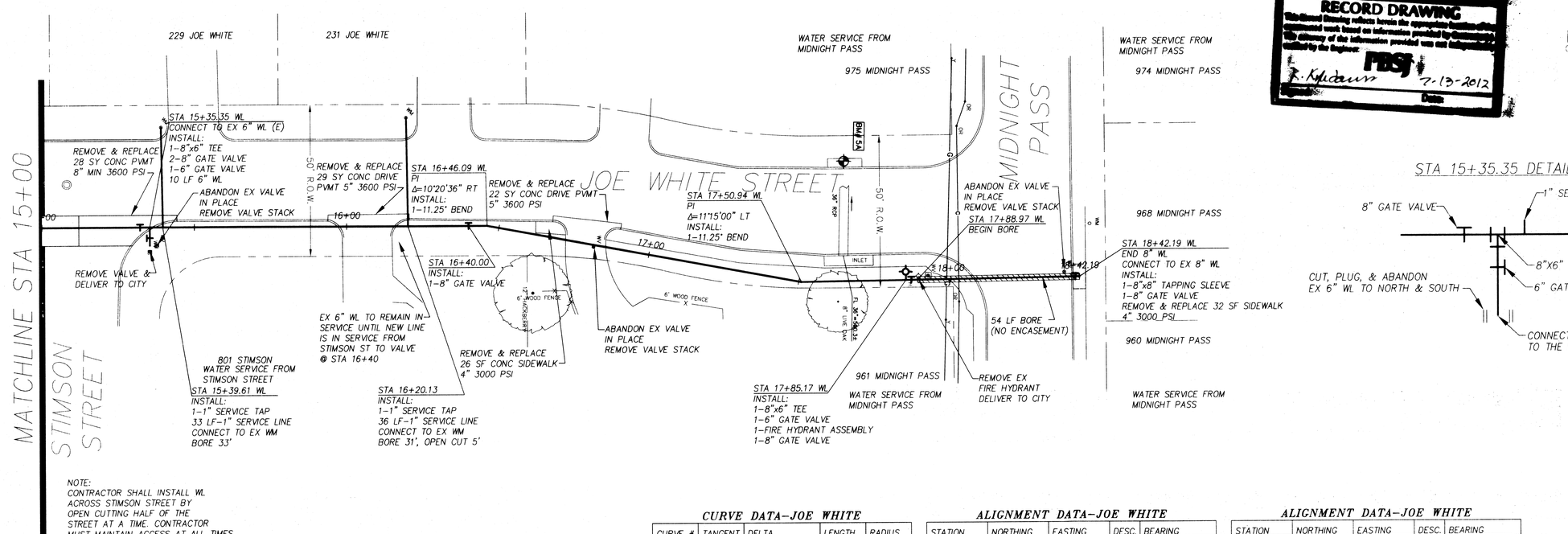
PBS&J JOB NO.: 10001908
DATE: JANUARY 2011
FILE:

SCALE: HOR: 1"=20'

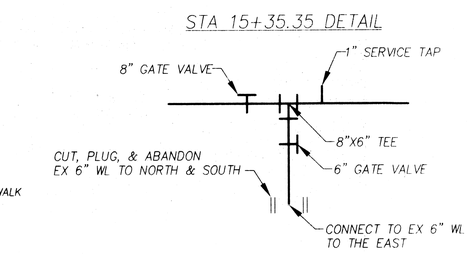
SHEET 5 OF 13



NOTE:
PAVEMENT AND SIDEWALK ON WEST HALF OF ROAD
IS SHOWN FOR INFORMATION PURPOSES ONLY
AND LOCATIONS ARE BASED ON AERIAL PHOTOS.



NOTE:
CONTRACTOR SHALL INSTALL WL
ACROSS STIMSON STREET BY
OPEN CUTTING HALF OF THE
STREET AT A TIME. CONTRACTOR
MUST MAINTAIN ACCESS AT ALL TIMES.



CURVE DATA-JOE WHITE

CURVE #	TANGENT	DELTA	LENGTH	RADIUS
1	51.64	21°25'29"	102.08'	273.00
2	65.56	22°56'49"	129.36'	323.00

BENCHMARK DATA-JOE WHITE

POINT	NORTHING	EASTING	ELEV	STATION/OFFSET
BM #5A	7031502.70	2595622.43	504.93	17+65.30, 37.11 RT
BM #5B	7029935.28	2596163.11	529.23	JOE WHITE & NASH

ALIGNMENT DATA-JOE WHITE

STATION	NORTHING	EASTING	DESC.	BEARING
~~0+00.00~~	~~7029979.28~~	~~2596198.46~~	BEGIN	S 89°54'02" W
~~0+05.68~~	~~7029979.27~~	~~2596192.78~~	PI	N 48°43'30" W
~~1+43.82~~	~~7030070.40~~	~~2596088.96~~	PI	N 03°43'30" W
1+51.82	7030078.38	2596088.44	PI	N 48°43'30" W
3+97.00	7030240.12	2595904.17	PI	S 86°16'30" W
4+05.00	7030239.60	2595896.19	PI	N 48°43'30" W
4+22.59	7030251.20	2595882.97	PI	N 53°21'23" W
5+19.96	7030309.31	2595804.85	PI	N 47°08'58" W
5+68.28	7030342.18	2595769.42	PC	CURVE 1

ALIGNMENT DATA-JOE WHITE

STATION	NORTHING	EASTING	DESC.	BEARING
6+70.36	7030423.83	2595709.14	PT	N 25°43'29" W
7+10.64	7030460.11	2595691.66	PC	CURVE 2
8+40.00	7030584.66	2595660.03	PT	N 43°58'00" E
8+47.79	7030590.26	2595665.43	PI	N 01°02'00" W
8+81.94	7030624.40	2595664.82	PI	N 46°02'00" W
8+89.94	7030629.96	2595659.06	PI	N 01°02'00" W
16+46.09	7031385.99	2595645.42	PI	N 09°18'36" E
17+50.94	7031489.45	2595662.39	PI	N 01°56'24" W
18+42.19	7031580.65	2595659.30	END	

STATE OF TEXAS
R. KYLE JONES
101126
LICENSED PROFESSIONAL ENGINEER
R. Kyle Jones 1-13-2011

CITY OF ROCKWALL
WATERLINE REPLACEMENT PROJECTS
JOE WHITE WATERLINE REPLACEMENT
STA 10+00 TO STA 18+42

"THE NEW HORIZON"

NO.	REVISION	BY	DATE

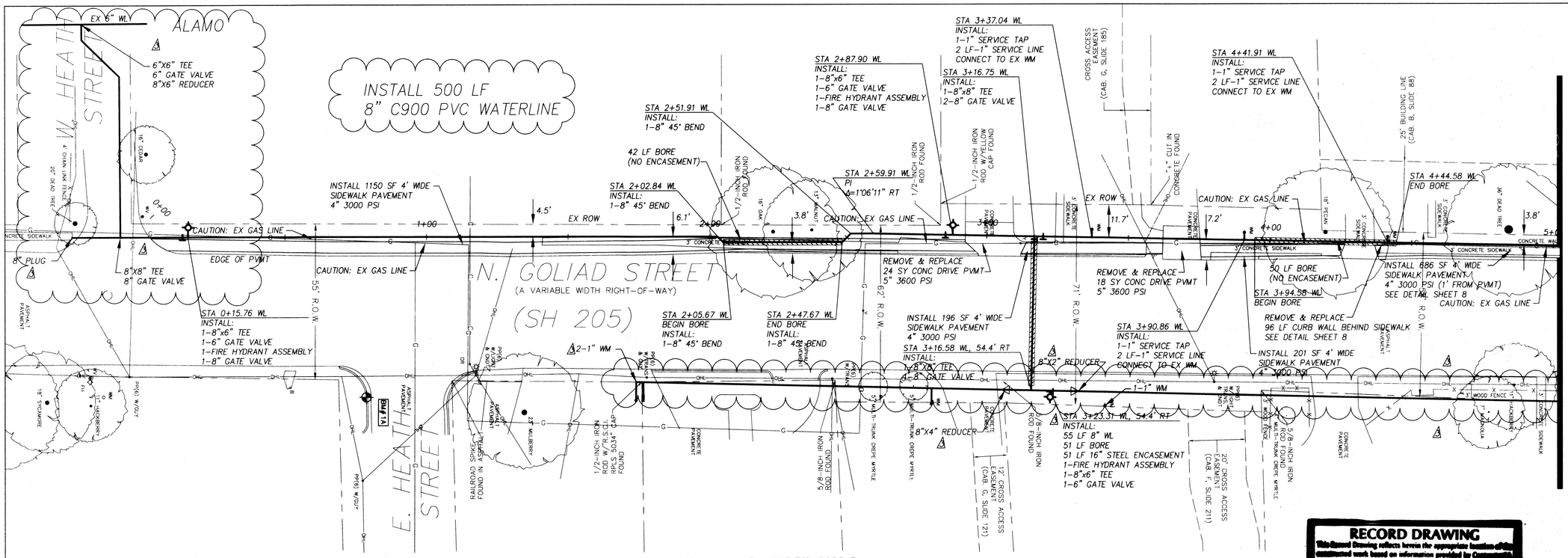
DESIGN: RKJ
DRAWN: RKJ
CHECKED: TBS
APPROVED: PBS&J

PBSJ TBPE #F-474
18383 PRESTON ROAD ~ SUITE 500
DALLAS, TEXAS 75252
PH. (972) 816-2255 FAX (972) 380-2600

PBSJ JOB NO. 100010908
DATE: JANUARY 2011
FILE:

SCALE: HOR: 1"=20'

SHEET 6 OF 13



ALIGNMENT DATA–NORTH GOLIAD

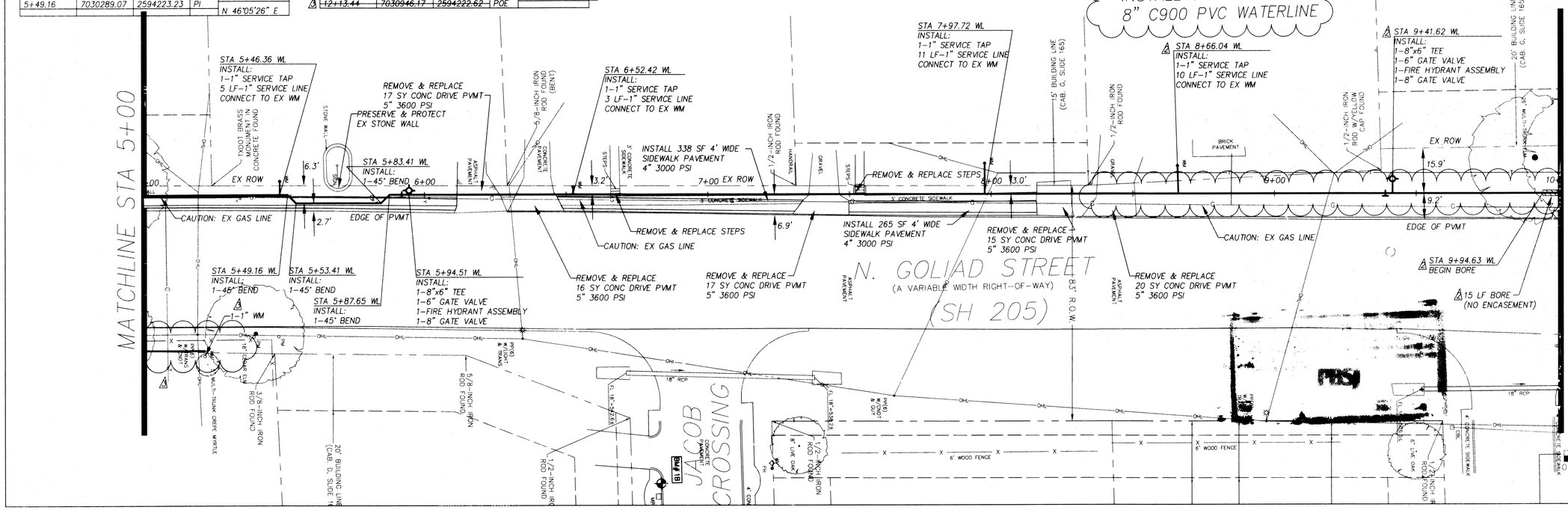
STATION	NORTHING	EASTING	DESC.	BEARING
~~0+00.00~~	~~7029745.13~~	~~2594213.02~~	POB	
~~0+10.47~~	~~7029752.49~~	~~2594220.46~~	PI	N 45°17'36" E
2+02.84	7029944.86	2594219.82	PI	N 00°11'33" W
2+05.67	7029946.87	2594221.81	PI	N 44°48'27" E
2+47.67	7029988.87	2594221.67	PI	N 00°11'33" E
2+51.91	7029991.86	2594218.66	PI	N 45°11'33" W
2+59.91	7029999.86	2594218.63	PI	N 00°11'33" W
5+49.16	7030289.07	2594223.23	PI	N 00°54'38" E
				N 46°05'26" E

ALIGNMENT DATA–NORTH GOLIAD

STATION	NORTHING	EASTING	DESC.	BEARING
5+53.41	7030292.02	2594226.29	PI	
5+83.83	7030322.01	2594226.86	PI	N 01°05'26" E
5+87.65	7030325.07	2594223.91	PI	N 43°54'34" W
11+35.21	7030872.53	2594234.34	PI	N 01°05'26" E
11+57.92	7030893.67	2594226.05	PI	N 21°24'34" W
~~11+75.42~~	~~7030911.17~~	~~2594225.91~~	PI	N 00°27'44" W
~~11+78.42~~	~~7030911.15~~	~~2594222.91~~	PI	S 89°32'16" W
~~12+13.44~~	~~7030946.17~~	~~2594222.62~~	POE	N 00°27'44" W

BENCHMARK DATA–NORTH GOLIAD

POINT	NORTHING	EASTING	ELEV	STATION/OFFSET
BM #1A	7029820.96	2594276.77	561.83'	0+77.91, 58.53 RT
BM #1B	7030418.91	2594327.87	543.36'	6+81.39, 102.15 RT



CITY OF ROCKWALL
WATERLINE REPLACEMENT PROJECTS
NORTH GOLIAD WATERLINE REPLACEMENT
STA 0+00 TO STA 10+00

"THE NEW HORIZON"

NO.	REVISION	BY	DATE
1	REVISED ALIGN 0+00 TO 5+49	RKJ	1/28/2011
2	REVISED ALIGN 8+35 TO END	RKJ	8/10/2011
3	RECORD DRAWINGS	RKJ	5/21/2012

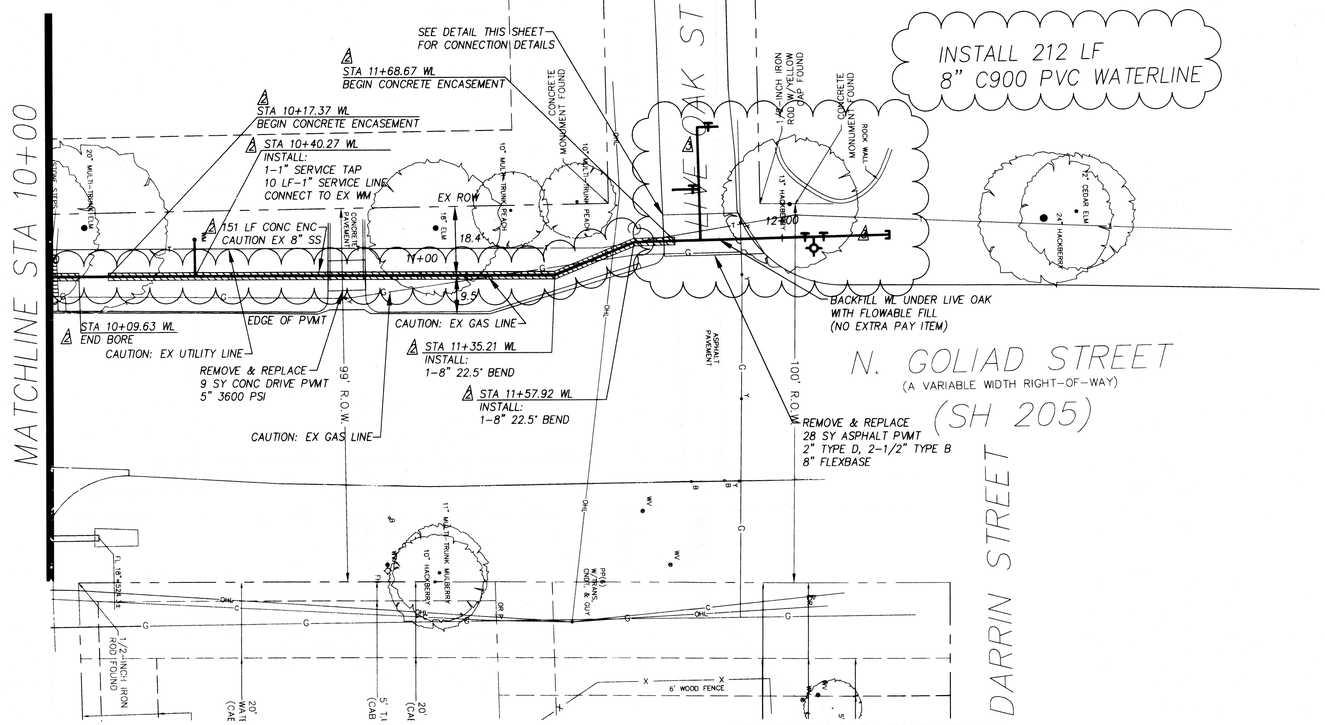
DESIGN: RKJ CHECKED: TBS
DRAWN: RKJ APPROVED: PBS&J

PBS&J TBPE #F-474
18383 PRESTON ROAD - SUITE 600
DALLAS, TEXAS 75252
PH. (972) 816-7275 FAX (972) 380-8609

PBS&J JOB NO.: 100010908
DATE: JANUARY 2011
FILE:

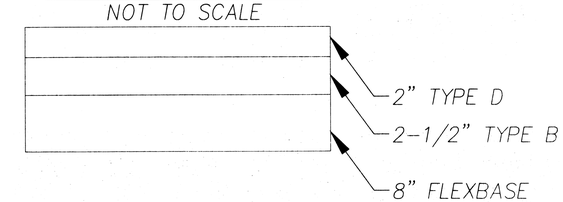
SCALE: HOR: 1"=20'

SHEET 7 OF 13



ASPHALT DETAIL

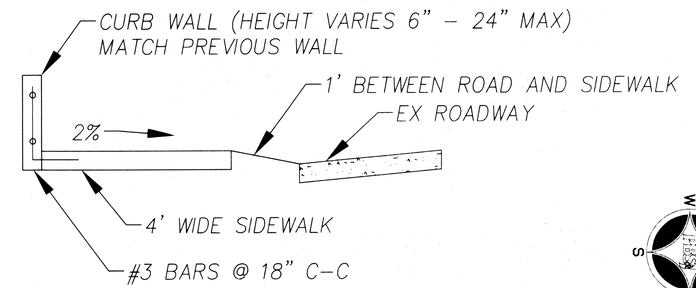
NOT TO SCALE



CURB WALL WITH SIDEWALK

NOT TO SCALE

WALL IS INCLUDED AS PART OF SIDEWALK PAY ITEM



ALIGNMENT DATA-NORTH GOLIAD

STATION	NORTHING	EASTING	DESC.	BEARING
~~0+00.00~~	~~7029745.13~~	~~2594213.02~~	POB	
				N 45°17'36" E
~~0+10.47~~	~~7029752.49~~	~~2594220.46~~	PI	
				N 00°11'33" W
2+02.84	7029944.86	2594219.82	PI	
				N 44°48'27" E
2+05.67	7029946.87	2594221.81	PI	
				N 00°11'33" E
2+47.67	7029988.87	2594221.67	PI	
				N 45°11'33" W
2+51.91	7029991.86	2594218.66	PI	
				N 00°11'33" W
2+59.91	7029999.86	2594218.63	PI	
				N 00°54'38" E
5+49.16	7030289.07	2594223.23	PI	
				N 46°05'26" E

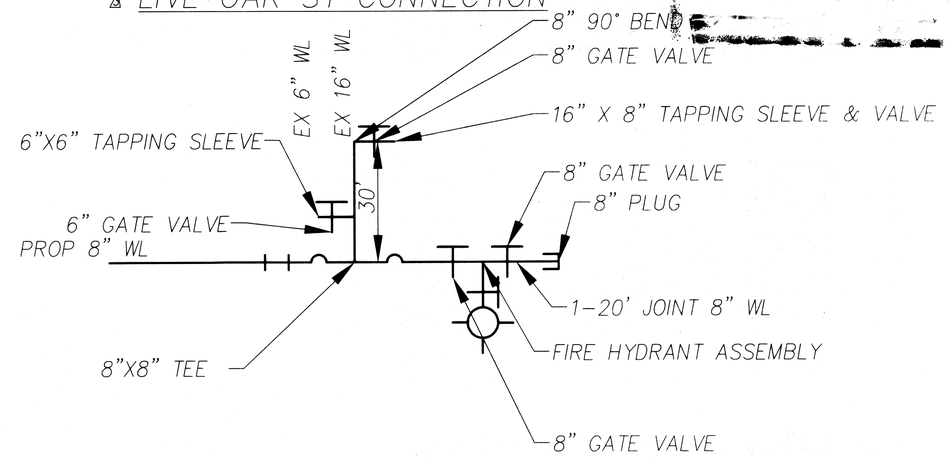
ALIGNMENT DATA-NORTH GOLIAD

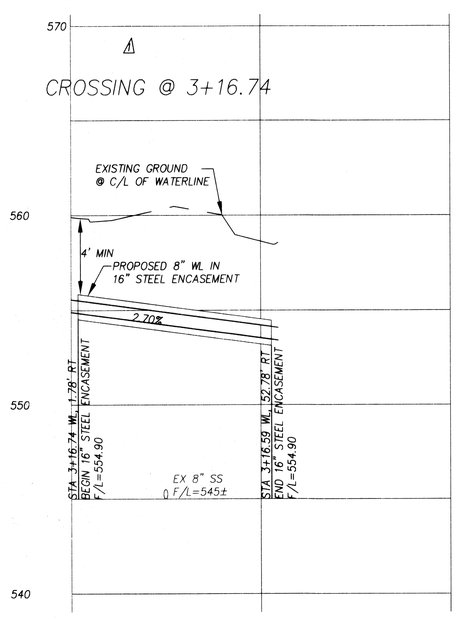
STATION	NORTHING	EASTING	DESC.	BEARING
5+53.41	7030292.02	2594226.29	PI	
				N 01°05'26" E
5+83.83	7030322.01	2594226.86	PI	
				N 43°54'34" W
5+87.65	7030325.07	2594223.91	PI	
				N 01°05'26" E
11+35.21	7030872.53	2594234.34	PI	
				N 21°24'34" W
11+57.92	7030893.67	2594226.05	PI	
				N 00°27'44" W
~~11+75.42~~	~~7030911.17~~	~~2594225.91~~	PI	
				S 89°32'16" W
~~11+78.42~~	~~7030911.15~~	~~2594222.91~~	PI	
				N 00°27'44" W
~~12+13.44~~	~~7030946.17~~	~~2594222.62~~	POE	

BENCHMARK DATA-NORTH GOLIAD

POINT	NORTHING	EASTING	ELEV	STATION/OFFSET
BM #1A	7029820.96	2594276.77	561.83'	0+77.91, 58.53 RT
BM #1B	7030418.91	2594327.87	543.36'	6+81.39, 102.15 RT

LIVE OAK ST CONNECTION





RECORD DRAWING

This Record Drawing reflects herein the appropriate location of the constructed work based on information provided by Contractor. The accuracy of the information provided was not independently verified by the Engineer.

PBSJ

R. Kyle Jones 7-13-2012

Signature Date

R. Kyle Jones 8-10-2011

STATE OF TEXAS R. KYLE JONES 101126 LICENSED PROFESSIONAL ENGINEER

CITY OF ROCKWALL

WATERLINE REPLACEMENT PROJECTS

NORTH GOLIAD WATERLINE REPLACEMENT

STA 10+00 TO STA 12+11

"THE NEW HORIZON"

NO.	REVISION	BY	DATE
1	ADDED WL PROFILE FOR CROSSING	RKJ	1/28/2011
2	REVISED ALIGN 8+35 TO END	RKJ	8/10/2011
3	RECORD DRAWINGS	RKJ	5/21/2012

DESIGN: RKJ CHECKED: TBS

DRAWN: RKJ APPROVED: PBS&J

PBS&J TBPE #F-474

18383 PRESTON ROAD - SUITE 500 DALLAS, TEXAS 75252 PH: (972) 816-2275 FAX (972) 980-2809

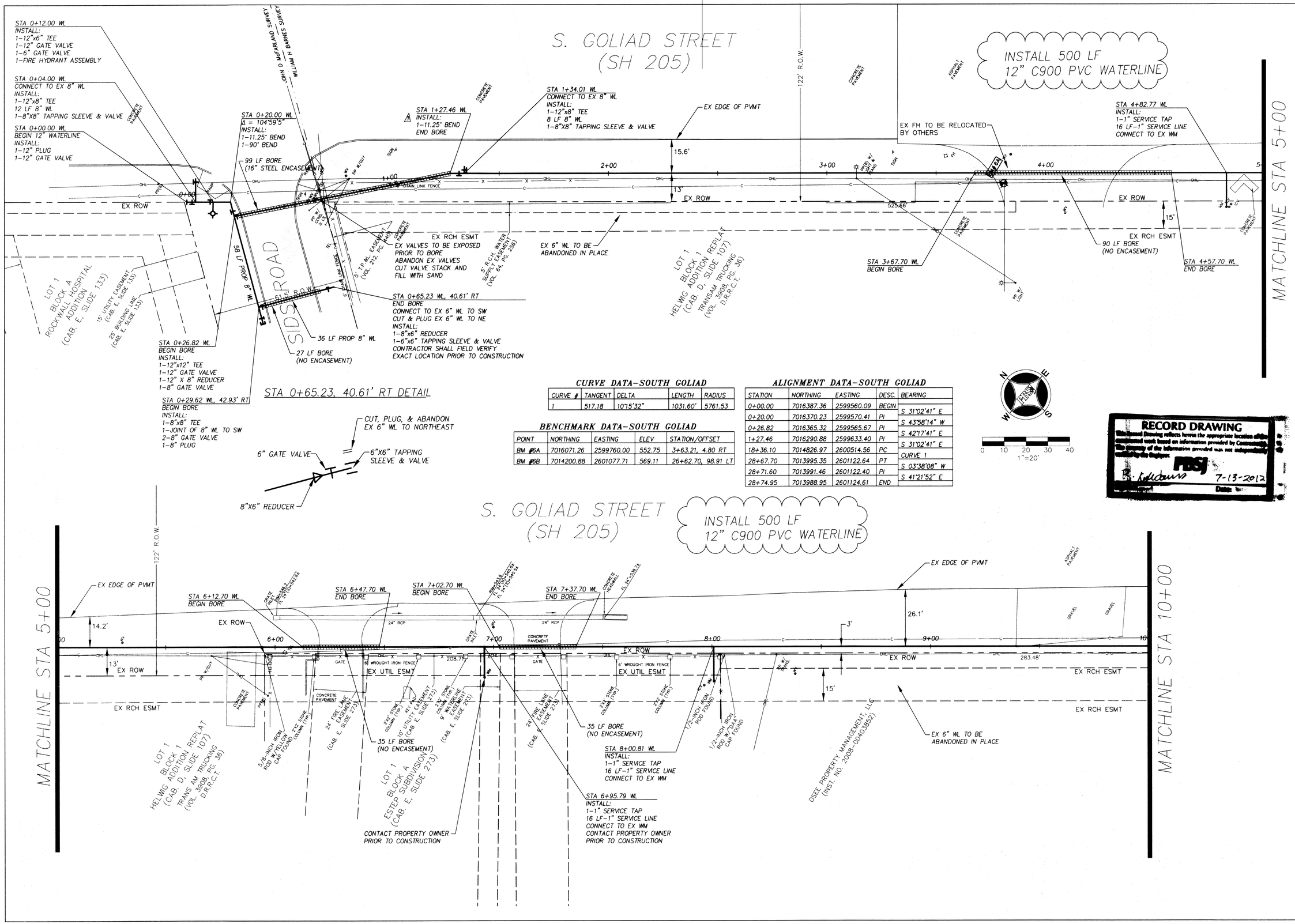
PBS&J JOB NO.: 100010908

DATE: JANUARY 2011

FILE:

SCALE: HOR: 1"=20' VER: 1"=4'

SHEET 8 OF 13



STA 0+65.23, 40.61' RT DETAIL

CURVE DATA-SOUTH GOLIAD

CURVE #	TANGENT	DELTA	LENGTH	RADIUS
1	517.18	10°15'32"	1031.60'	5761.53

BENCHMARK DATA-SOUTH GOLIAD

POINT	NORTHING	EASTING	ELEV	STATION/OFFSET
BM #6A	7016071.26	2599760.00	552.75	3+63.21, 4.80 RT
BM #6B	7014200.88	2601077.71	569.11	26+62.70, 98.91 LT

ALIGNMENT DATA-SOUTH GOLIAD

STATION	NORTHING	EASTING	DESC.	BEARING
0+00.00	7016387.36	2599560.09	BEGIN	
				S 31°02'41" E
0+20.00	7016370.23	2599570.41	PI	
				S 43°58'14" W
0+26.82	7016365.32	2599565.67	PI	
				S 42°17'41" E
1+27.46	7016290.88	2599633.40	PI	
				S 31°02'41" E
18+36.10	7014826.97	2600514.56	PC	
				CURVE 1
28+67.70	7013995.35	2601122.64	PT	
				S 03°38'08" W
28+71.60	7013991.46	2601122.40	PI	
				S 41°21'52" E
28+74.95	7013988.95	2601124.61	END	

0 10 20 30 40
1"=20'

RECORD DRAWING
This Record Drawing reflects herein the appropriate location of the completed work based on information provided by Contractor. The accuracy of the information provided was not independently verified by the Engineer.
PBS&J
7-13-2012
Date:

STATE OF TEXAS
R. KYLE JONES
101126
LICENSED PROFESSIONAL ENGINEER
1-18-2011

CITY OF ROCKWALL
WATERLINE REPLACEMENT PROJECTS
SOUTH GOLIAD WATERLINE REPLACEMENT
STA 0+00 TO STA 10+00

"THE NEW HORIZON"

NO.	REVISION	BY	DATE
1	EXTEND BORE TO 1+27.00	RKJ	1/18/2011

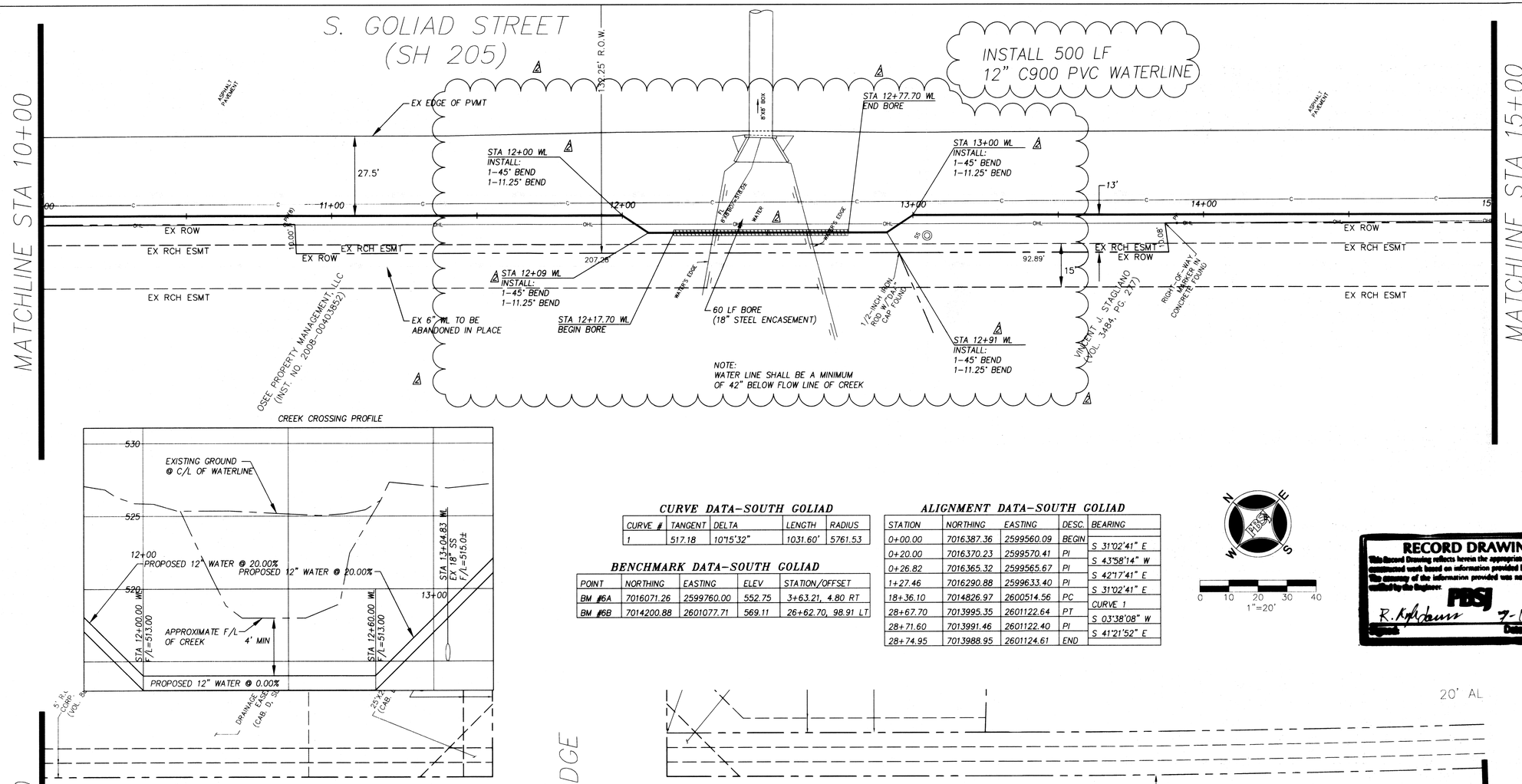
PBS&J TBPE #F-474
18383 PRESTON ROAD - SUITE 500
DALLAS, TEXAS 75252
PH. (972) 816-7275 FAX (972) 380-1869

PBS&J JOB NO.: 100010908
DATE: JANUARY 2011
FILE:

DESIGN: RKJ
DRAWN: RKJ
CHECKED: TBS
APPROVED: PBS&J

SCALE: HOR: 1"=20'

SHEET 9 OF 13



CURVE DATA-SOUTH GOLIAD

CURVE #	TANGENT	DELTA	LENGTH	RADIUS
1	517.18	10°15'32"	1031.60'	5761.53

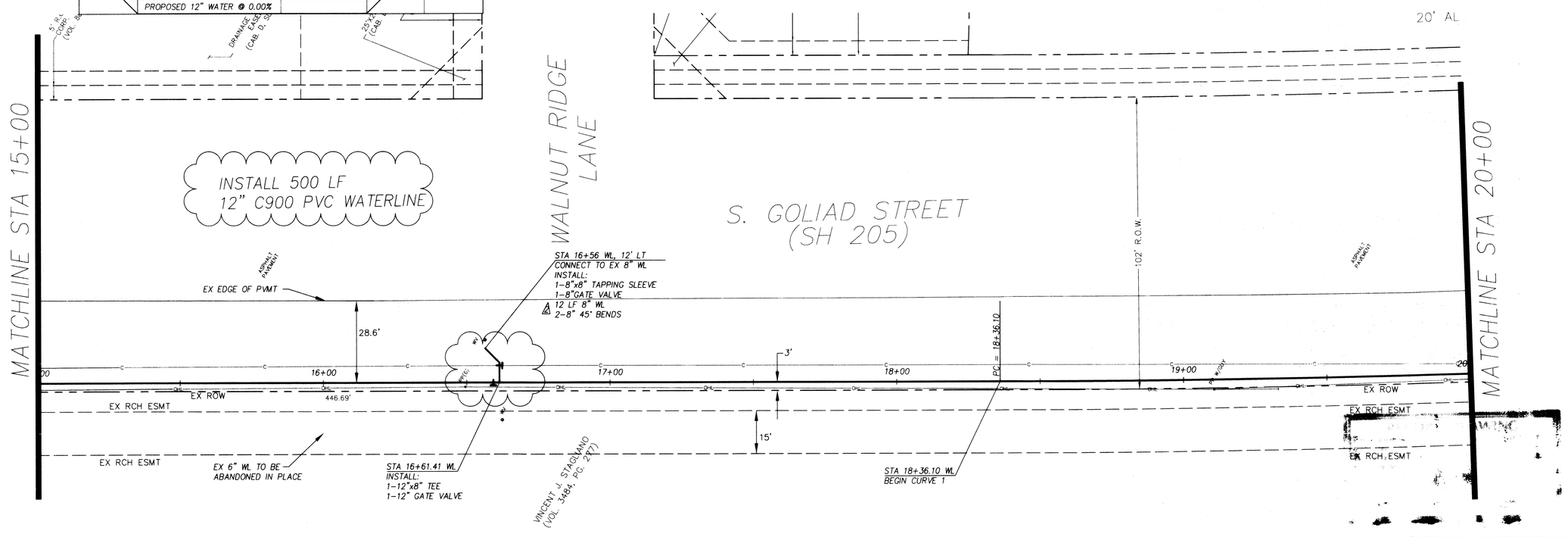
BENCHMARK DATA-SOUTH GOLIAD

POINT	NORTHING	EASTING	ELEV	STATION/OFFSET
BM #6A	7016071.26	2599760.00	552.75	3+63.21, 4.80 RT
BM #6B	7014200.88	2601077.71	569.11	26+62.70, 98.91 LT

ALIGNMENT DATA-SOUTH GOLIAD

STATION	NORTHING	EASTING	DESC.	BEARING
0+00.00	7016387.36	2599560.09	BEGIN	
				S 31°02'41" E
0+20.00	7016370.23	2599570.41	PI	
				S 43°58'14" W
0+26.82	7016365.32	2599565.67	PI	
				S 42°17'41" E
1+27.46	7016290.88	2599633.40	PI	
				S 31°02'41" E
18+36.10	7014826.97	2600514.56	PC	
				CURVE 1
28+67.70	7013995.35	2601122.64	PT	
				S 03°38'08" W
28+71.60	7013991.46	2601122.40	PI	
				S 41°21'52" E
28+74.95	7013988.95	2601124.61	END	

RECORD DRAWING
This Record Drawing reflects herein the appropriate location of the constructed work based on information provided by Contractor(s). The accuracy of the information provided was not independently verified by the Engineer.
PBSJ
R. Kyle Jones 7-13-2012
Signature Date



R. Kyle Jones 5-11-2011
STATE OF TEXAS
R. KYLE JONES
101126
LICENSED
PROFESSIONAL ENGINEER

CITY OF ROCKWALL
WATERLINE REPLACEMENT PROJECTS
SOUTH GOLIAD WATERLINE REPLACEMENT
STA 10+00 TO STA 20+00

"THE NEW HORIZON"

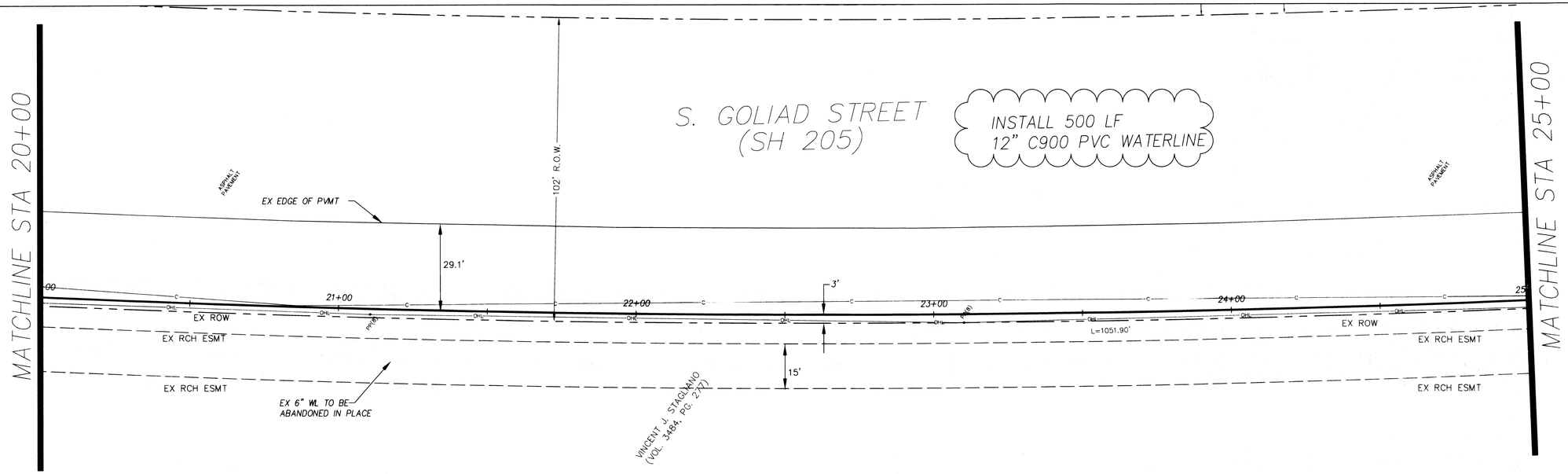
NO.	REVISION	BY	DATE
1	REVISE ENCASEMENT TO 18"	RKJ	5/11/2011
2	RECORD DRAWINGS	RKJ	5/22/2012

DESIGN: RKJ
DRAWN: RKJ
CHECKED: TBS
APPROVED: PBSJ

PBSJ TBPE #F-474
18383 PRESTON ROAD - SUITE 500
DALLAS, TEXAS 75252
PH. (972) 816-7275 FAX (972) 380-8669

PBSJ JOB NO.: 100010908
DATE: JANUARY 2011
FILE:

SCALE: HOR: 1"=20'



CURVE DATA–SOUTH GOLIAD

CURVE #	TANGENT	DELTA	LENGTH	RADIUS
1	517.18	10°15'32"	1031.60'	5761.53

BENCHMARK DATA–SOUTH GOLIAD

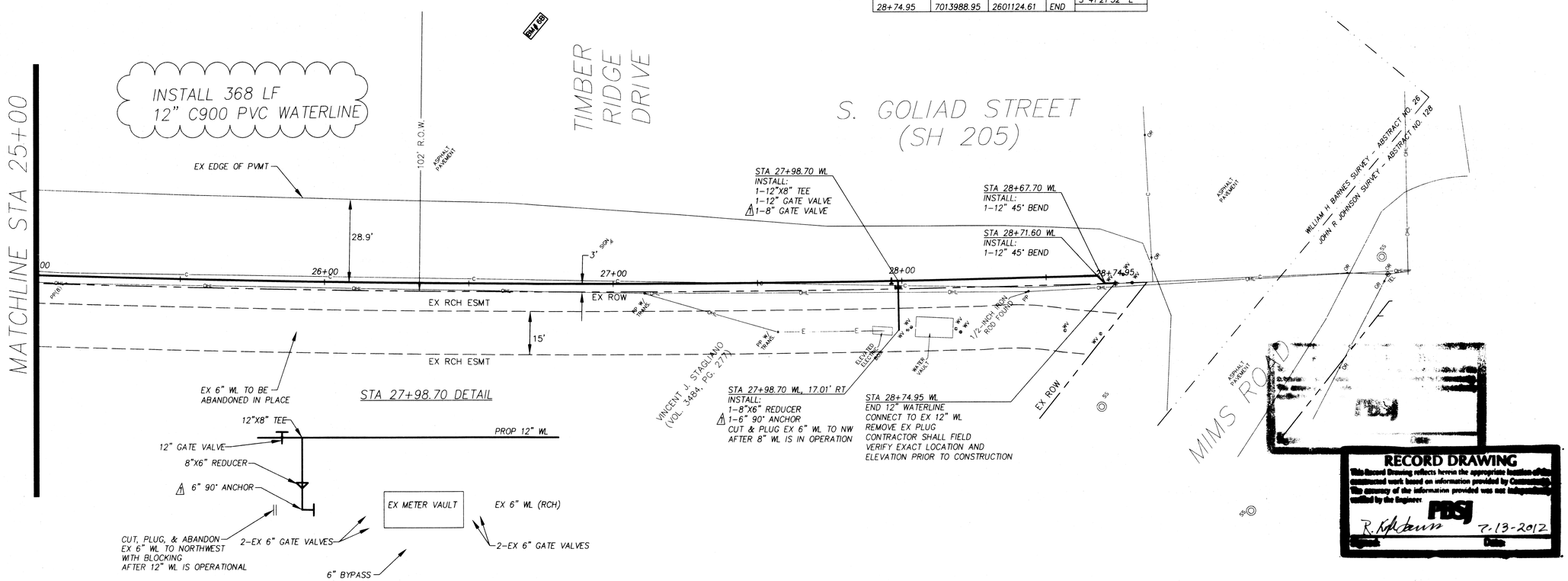
POINT	NORTHING	EASTING	ELEV	STATION/OFFSET
BM #6A	7016071.26	2599760.00	552.75	3+63.21, 4.80 RT
BM #6B	7014200.88	2601077.71	569.11	26+62.70, 98.91 LT

ALIGNMENT DATA–SOUTH GOLIAD

STATION	NORTHING	EASTING	DESC.	BEARING
0+00.00	7016387.36	2599560.09	BEGIN	
				S 31°02'41" E
0+20.00	7016370.23	2599570.41	PI	
				S 43°58'14" W
0+26.82	7016365.32	2599565.67	PI	
				S 42°17'41" E
1+27.46	7016290.88	2599633.40	PI	
				S 31°02'41" E
18+36.10	7014826.97	2600514.56	PC	
				CURVE 1
28+67.70	7013995.35	2601122.64	PT	
				S 03°38'08" W
28+71.60	7013991.46	2601122.40	PI	
				S 41°21'52" E
28+74.95	7013988.95	2601124.61	END	

N E S W

0 10 20 30 40
1"=20'



RECORD DRAWING
This Record Drawing reflects hereon the appropriate location of the constructed work based on information provided by Contractor. The accuracy of the information provided was not independently verified by the Engineer.
PBSJ
R. Kyle Jones 7-13-2012
Signature Date

R. Kyle Jones 1-13-2011
STATE OF TEXAS
R. KYLE JONES
101126
LICENSED PROFESSIONAL ENGINEER

CITY OF ROCKWALL
WATERLINE REPLACEMENT PROJECTS

SOUTH GOLIAD WATERLINE REPLACEMENT
STA 20+00 TO STA 28+59

"THE NEW HORIZON"

NO.	REVISION	BY	DATE
1	RECORD DRAWINGS	RKJ	5/22/2012

DESIGN: RKJ
CHECKED: TBS
DRAWN: RKJ
APPROVED: PBS&J

PBSJ TBPE #F-474
18383 PRESTON ROAD - SUITE 500
DALLAS, TEXAS 75252
PH. (972) 816-7275 FAX (972) 380-2609

PBS&J JOB NO.: 100010908
DATE: JANUARY 2011
FILE:

SCALE: HOR: 1"=20'

SHEET 11 OF 13

INSTALL 480 LF
8" C900 PVC WATERLINE

NOTE:
CONTRACTOR SHALL INSTALL WL ACROSS KERNODLE ST BY OPEN CUTTING HALF OF THE STREET AT A TIME. CONTRACTOR MUST MAINTAIN ACCESS AT ALL TIMES.

WATER SERVICE FROM WILLIAMS STREET

STA 2+26 KERNODLE WL, 37' LT
CONNECT TO EX 2" WL
CUT, PLUG, ABANDON EX 2" WL TO SOUTH END BORE
BACKFILL 16 LF OF 2" WL WITH FLOWABLE FILL (NO EXTRA PAY ITEM)

WATER SERVICE FROM WILLIAMS STREET

BLOCK 1
PATRICIA A. MAY ADDITION
(CAB. E, SLIDE 310)

LOT 1
PATRICIA A MAY
(VOL. 1716, PG. 323)

LOT 2
DEBORAH C WINES
(VOL. 3666, PG. 102)

STA 2+07 KERNODLE WL
INSTALL:
1-2" SERVICE TAP
30 LF 2" WL

EX 2" WL TO BE ABANDONED IN PLACE

REMOVE & REPLACE
267 SY ASPHALT PVMT
2" TYPE D, 2-1/2" TYPE B
8" FLEXBASE

STA 0+00.00 KERNODLE WL
INSTALL:
1-8"x8" TAPPING SLEEVE & VALVE
BEGIN 8" WATERLINE
CONNECT TO EX 8" WL
CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION

STA 0+99.56 KERNODLE WL
INSTALL:
1-1" SERVICE TAP
13 LF 1" SERVICE LINE
CONNECT TO EX WM

1-STORY FRAME HOUSE

2-STORY FRAME HOUSE

APPARENT ENCROACHMENT (ADDITIONAL RESEARCH MAY BE NECESSARY TO VERIFY RIGHT-OF-WAY)

STA 2+16.59 KERNODLE WL
INSTALL:
1-2" SERVICE TAP
115 LF 2" WL
BEGIN BORE
BACKFILL 10 LF OF 8" WL WITH FLOWABLE FILL (NO EXTRA PAY ITEM)

BLOCK 5
FARMERS & MERCHANTS ADDITION
(CAB. R, SLIDE 313)

PEREIRA MOACYR
(INST. NO. 2010-00432643)

CONNECT 2" SERVICE LINE TO EX WM

CONNECT 2" SERVICE LINE TO EX WM

PRESERVE & PROTECT EX 36" ELM

WILLIAMS ST (SH 66)

CONNECT 2" SERVICE LINE TO EX WM

EX 2" WL TO BE ABANDONED IN PLACE

2" SERVICE LINE TO BE INSTALLED USING NARROW WIDTH TRENCHER

STA 2+74 KERNODLE WL
INSTALL:
1-2" SERVICE TAPS
137 LF 2" SERVICE LINE
CONNECT TO EX WM

LOT 1-R
BLOCK 2
BUTTGEN ADDITION
(CAB. F, SLIDE 222)

JAMES D BUTTGEN

REMOVE & REPLACE
30 SF CONC WALK
4" 3000 PSI

30 LF BORE
(6" STEEL ENCASEMENT)

REMOVE & REPLACE
7 LF 12" CMP

REMOVE & REPLACE
32 SF CONC WALK
4" 3000 PSI

STA 2+68 KERNODLE WL
INSTALL:
1-8"x6" TEE
1-8" GATE VALVE
1-6" GATE VALVE
1-FIRE HYDRANT ASSEMBLY

STA 2+69 KERNODLE WL
INSTALL:
1-2" SERVICE TAPS
76 LF 2" SERVICE LINE
CONNECT TO EX WM

CONNECT 2" SERVICE LINE TO EX WM

65 LF BORE
(NO ENCASEMENT)

STA 3+27.52 KERNODLE WL
BEGIN BORE

BLOCK 6
GREEN'S REPLAT OF FARMERS & MERCHANTS ADDITION
(CAB. D, SLIDE 24)

LOT 1
DEAN R. CALDWELL AND SPOUSE, HOLLY A. CALDWELL
(VOL. 2424, PG. 157)

LOT 2
ALLEN E. SMITH AND SPOUSE, JUDY ROPER-SMITH
(INST. NO. 2008-00407397)

KERNODLE STREET

MARGARET STREET

REMOVE & REPLACE
20 SF CONC WALK
4" 3000 PSI

25 LF BORE
(NO ENCASEMENT)

STA 4+40.28 KERNODLE WL
INSTALL:
1-1" SERVICE TAP
8 LF 1" SERVICE LINE
CONNECT TO EX WM

STA 3+92.52 KERNODLE WL
END BORE

STA 4+79.79 KERNODLE WL
INSTALL:
1-8"x8" TAPPING SLEEVE & VALVE
END 8" WATERLINE
CONNECT TO EX 8" WL
CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION

STA 4+75.79 KERNODLE WL
END BORE

STA 4+50.78 KERNODLE WL
BEGIN BORE
INSTALL:
1-8"x6" TEE
1-8" GATE VALVE
1-6" GATE VALVE
1-FIRE HYDRANT ASSEMBLY

55' R.O.W. — 50' R.O.W. — 45' R.O.W. — 40' R.O.W.

0+00 — 1+00 — 2+00 — 3+00 — 4+79.79

5' TYPICAL

EX ROW — GRAVEL — ASPHALT PAVEMENT — CONCRETE SIDEWALK — EDGE OF PVMT — 4.6' — 4.9' — 3.8'

BM# 2C — BM# 2G — BM# 2D

CROSSING @ 2+26.59

580 — 570 — 560

EXISTING GROUND @ C/L OF WATERLINE

4' MIN

PROPOSED 8" WL IN 16" STEEL ENCASEMENT

1.6%

STA 2+26.59 KERNODLE BEGIN ENCASEMENT F/L ELEV=564.04

EX 6" SS F/L=558.0±

STA 2+63.35 KERNODLE END ENCASEMENT F/L ELEV=562.72

0 10 20 30 40
1"=20'

ALIGNMENT DATA-KERNODLE

STATION	NORTHING	EASTING	DESC.	BEARING
0+00.00	7028427.18	2595202.74	BEGIN	N 00°38'47" W
~~2+16.59~~	~~7028643.76~~	~~2595200.29~~	~~PI~~	~~N 89°21'13" E~~
~~2+26.59~~	~~7028643.87~~	~~2595210.29~~	~~PI~~	N 00°38'47" W
4+69.79	7028897.05	2595207.44	END	

RECORD DRAWING
This Record Drawing reflects herein the appropriate function of the completed work based on information provided by Contractor. The accuracy of the information provided was not independently verified by the Engineer.
PBSJ
R. Kyle Jones 7-13-2012
Engineer Date

R. Kyle Jones 1-28-2011
STATE OF TEXAS
R. KYLE JONES
101126
LICENSED
PROFESSIONAL ENGINEER

CITY OF ROCKWALL
WATERLINE REPLACEMENT PROJECTS
WILLIAMS WATERLINE REPLACEMENT
STA 0+00 TO 4+70

"THE NEW HORIZON"

NO.	REVISION	BY	DATE
1	ADDED VALVE TO STA 2+26.59	RKJ	1/18/2011
2	STEEL ENCASE SH 66 BORE	RKJ	1/21/2011
3	ADDED WL PROFILE FOR CROSSING	RKJ	1/28/2011
4	RECORD DRAWINGS	RKJ	5/23/2012

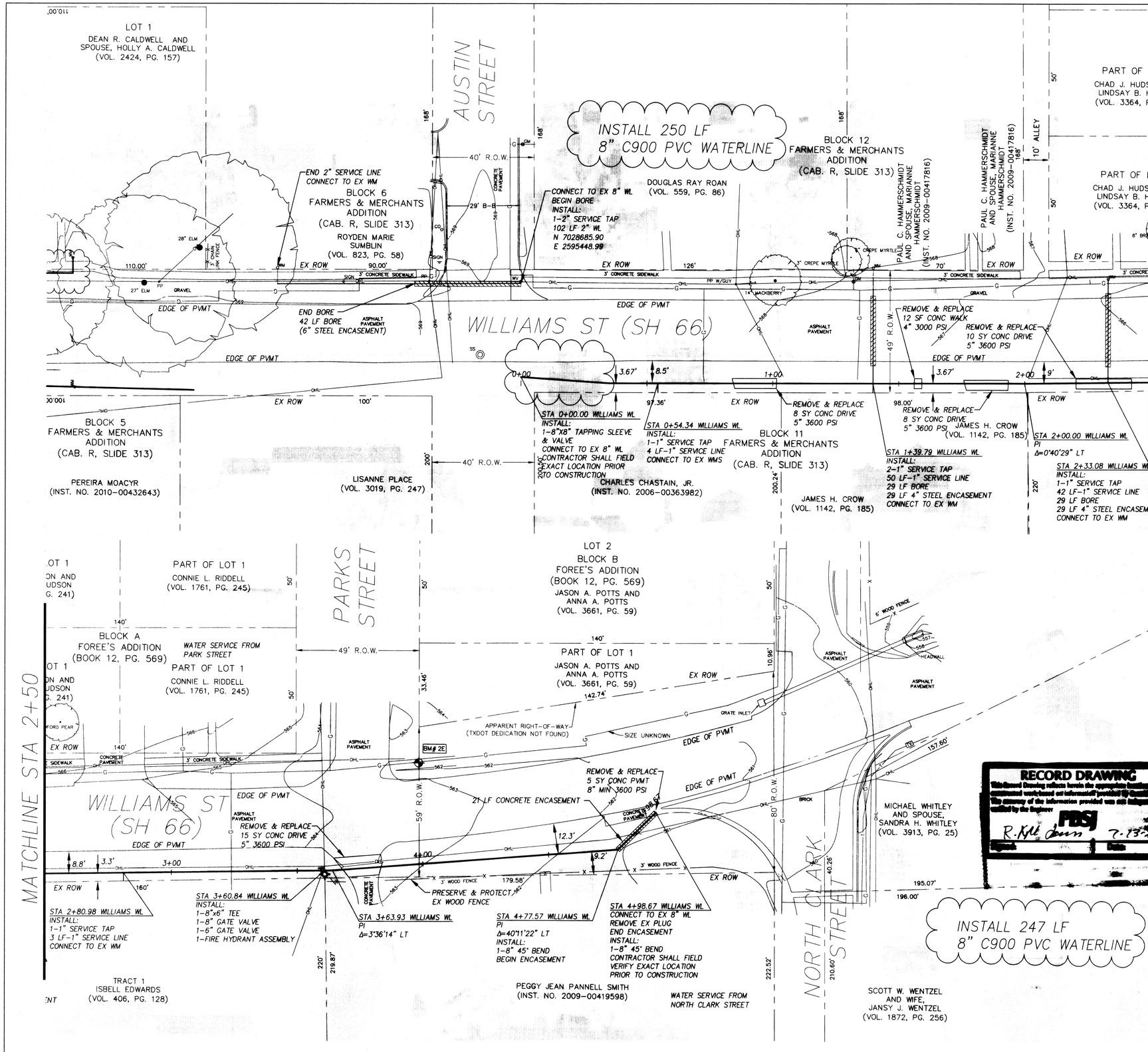
DESIGN: RKJ
DRAWN: RKJ
CHECKED: TBS
APPROVED: PBSJ

PBSJ TBPE #F-474
18383 PRESTON ROAD ~ SUITE 500
DALLAS, TEXAS 75252
PH. (972) 816-2210 FAX (972) 380-2099

PBSJ JOB NO.: 100010908
DATE: JANUARY 2011
FILE:

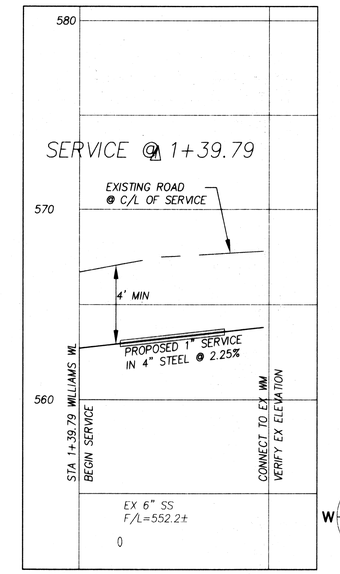
SCALE: HOR: 1"=20'
VER: 1"=4'

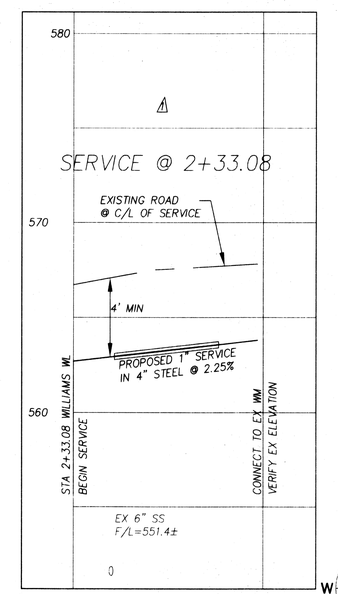
SHEET 12 OF 13



ALIGNMENT DATA-WILLIAMS

STATION	NORTHING	EASTING	DESC.	BEARING
0+00.00	7028646.57	2595449.54	BEGIN	
				N 89°21'13" E
2+00.00	7028648.83	2595649.53	PI	
				N 88°40'44" E
3+63.93	7028652.61	2595813.42	PI	
				N 85°04'30" E
4+77.57	7028662.36	2595941.52	PI	
				N 44°53'07" E
4+98.67	7028677.31	2595941.52	PI	





R. Kyle Jones 1-28-2011
TEXAS
R. KYLE JONES
101126
LICENSED
PROFESSIONAL ENGINEER

CITY OF ROCKWALL
WATERLINE REPLACEMENT PROJECTS
WILLIAMS WATERLINE REPLACEMENT
STA 0+00 TO 4+98

"THE NEW HORIZON"

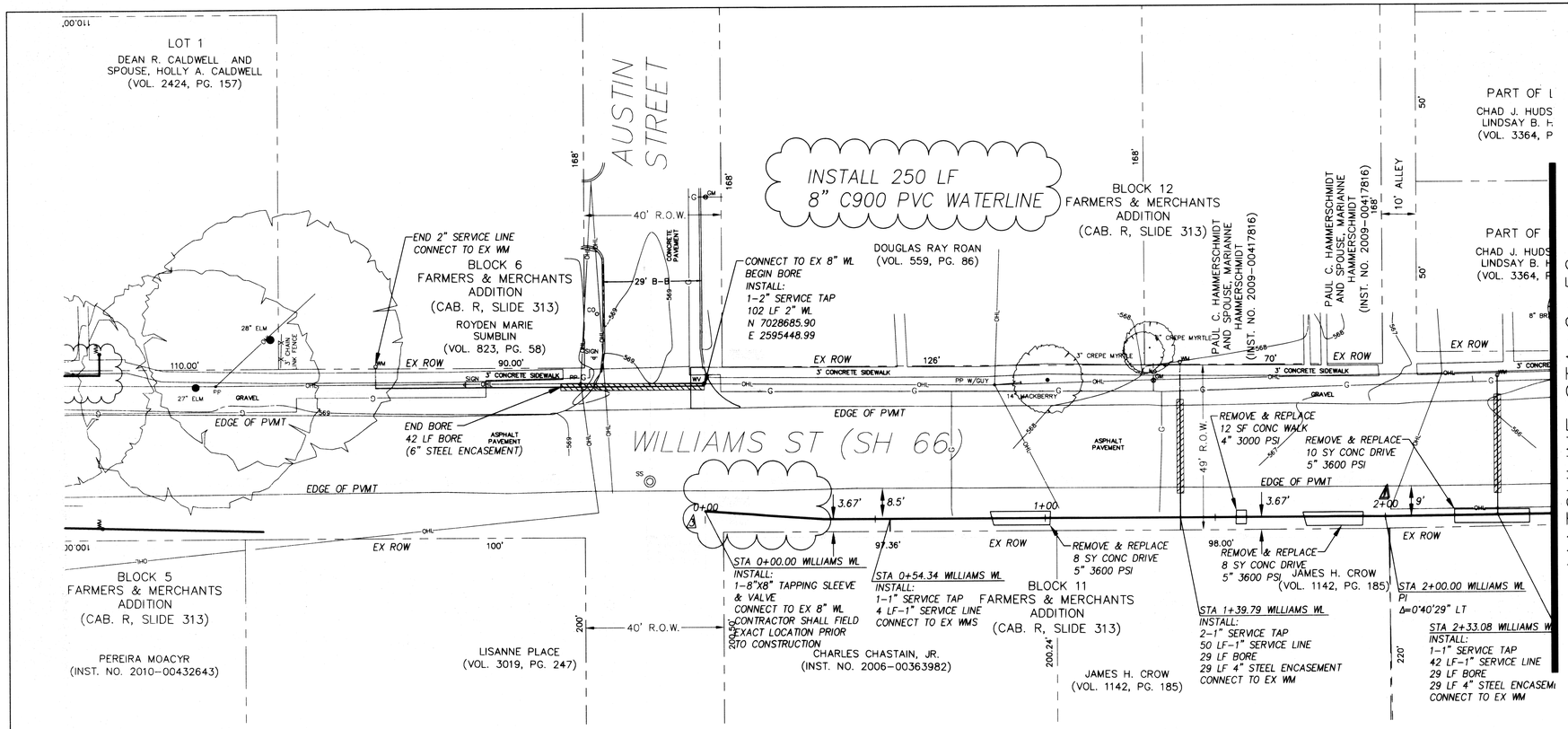
NO.	REVISION	BY	DATE
1	ADDED WL PROFILE FOR CROSSING	RKJ	1/28/2011
2	ALIGNMENT REVISION 2+00 TO END	RKJ	1/28/2011

PBSJ
TBPE #F-474
18383 PRESTON ROAD ~ SUITE 500
DALLAS, TEXAS 75252
PH. (972) 276-7111 FAX (972) 490-2699

PBSJ JOB NO.: 100010908
DATE: JANUARY 2011
FILE:
DESIGN: RKJ
DRAWN: RKJ
CHECKED: TBS
APPROVED: PBS&J

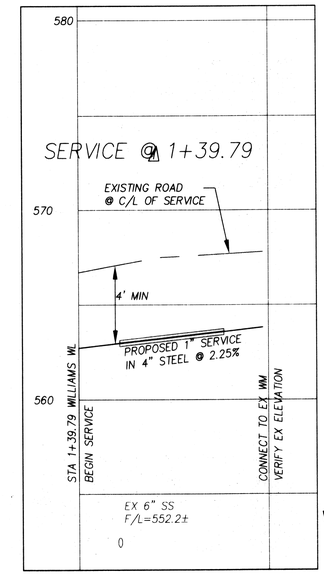
SCALE: HOR: 1"=20'
VER: 1"=4'

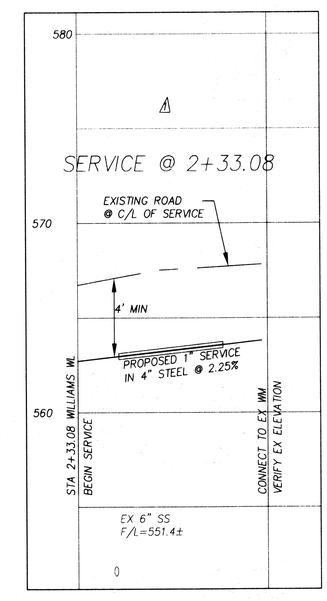
SHEET 13 OF 13



ALIGNMENT DATA-WILLIAMS

STATION	NORTHING	EASTING	DESC.	BEARING
~~0+00.00~~	~~7028646.57~~	~~2595449.54~~	BEGIN	
				~~N 89°21'13" E~~
2+00.00	7028648.83	2595649.53	PI	N 88°40'44" E
3+63.93	7028652.61	2595813.42	PI	N 85°04'30" E
4+77.57	7028662.36	2595941.52	PI	N 44°53'07" E
4+98.67	7028677.31	2595941.52	PI	





R. Kyle Jones 1-28-2011
STATE OF TEXAS
R. KYLE JONES
101126
LICENSED PROFESSIONAL ENGINEER

CITY OF ROCKWALL
WATERLINE REPLACEMENT PROJECTS
WILLIAMS WATERLINE REPLACEMENT
STA 0+00 TO 4+98

"THE NEW HORIZON"

NO.	REVISION	BY	DATE
1	ADDED WL PROFILE FOR CROSSING	RKJ	1/28/2011
2	ALIGNMENT REVISION 2+00 TO END	RKJ	1/28/2011
3	RECORD DRAWINGS	RKJ	5/23/2012

DESIGN: RKJ
DRAWN: RKJ
CHECKED: TBS
APPROVED: PBS&J

PBSJ TBPE #F-474
18383 PRESTON ROAD ~ SUITE 500
DALLAS, TEXAS 75252
PH. (972) 816-2216 FAX (972) 490-2809

PBS&J JOB NO.: 100010908
DATE: JANUARY 2011
FILE:

SCALE: HOR: 1"=20'
VER: 1"=4'

SHEET 13A OF 13