

APPENDIX 1.3

PROPOSED PLANS FOR SWMM MODEL OPTIONS MANHOLE, STORM DRAINS

Construction Plans for 10th St. and El Bordo Siphon Reconstruction and 96-inch Pipe
Repairs Storm (Wilson & Company, May 25, 2011)



PROJECT

COA MIDVALET

SHEET NO.

OF

2

SUBJECT

EL BORO SIPHON

PROJECT NO.

110112

BY

CHAS

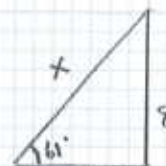
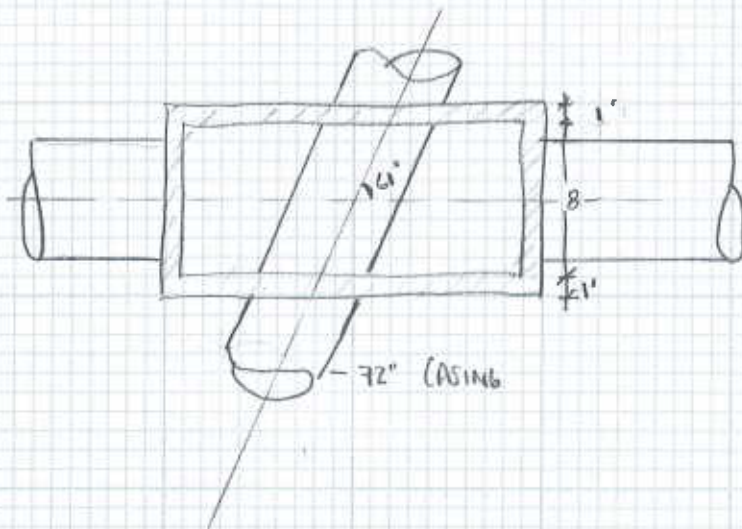
DATE

8/29/11

CHECKED BY

DATE

1/1

EQUIVALENT AREA OF 72" STEEL CASING - SHEET 8/9

$$\sin \theta = \frac{O}{H}$$

$$H = O / \sin \theta$$

$$= 8 / \sin 61$$

$$= 9.14 \text{ ft}$$

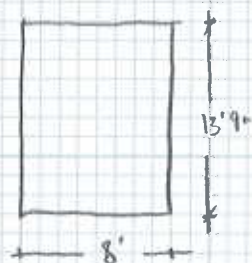


EQUIVALENT AREA - 6 x 9.14'
BLOCKED BY 72"
CASING

$$= 54.84$$

$$\approx 55 \text{ ft}^2$$

GROSS FLOW AREA OF BOX : SHEET 8/9 = 13'9" x 8' = 110 ft²



NET FLOW AREA

GROSS FLOW AREA - AREA BLOCKED

$$110 \text{ ft}^2 - 55 \text{ ft}^2 = 55 \text{ ft}^2$$

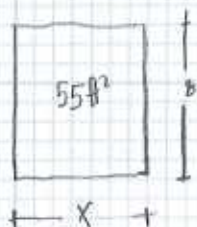
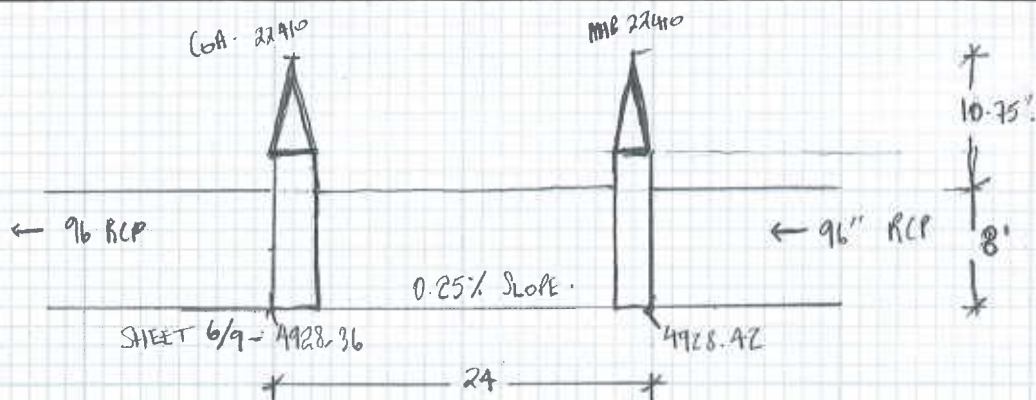


PROJECT MINUALET
SUBJECT El Bordo Siphon
BY CHRS

SHEET NO. 2 OF 2
PROJECT NO. 110112

DATE 8/30/11 CHECKED BY _____

DATE 1/1



$$X = 55 / 8 = 6.87'$$

Actual box = 15' 9" From Invert To Top of Box

Actual MH = 3' From Top of Blade To Top of Box

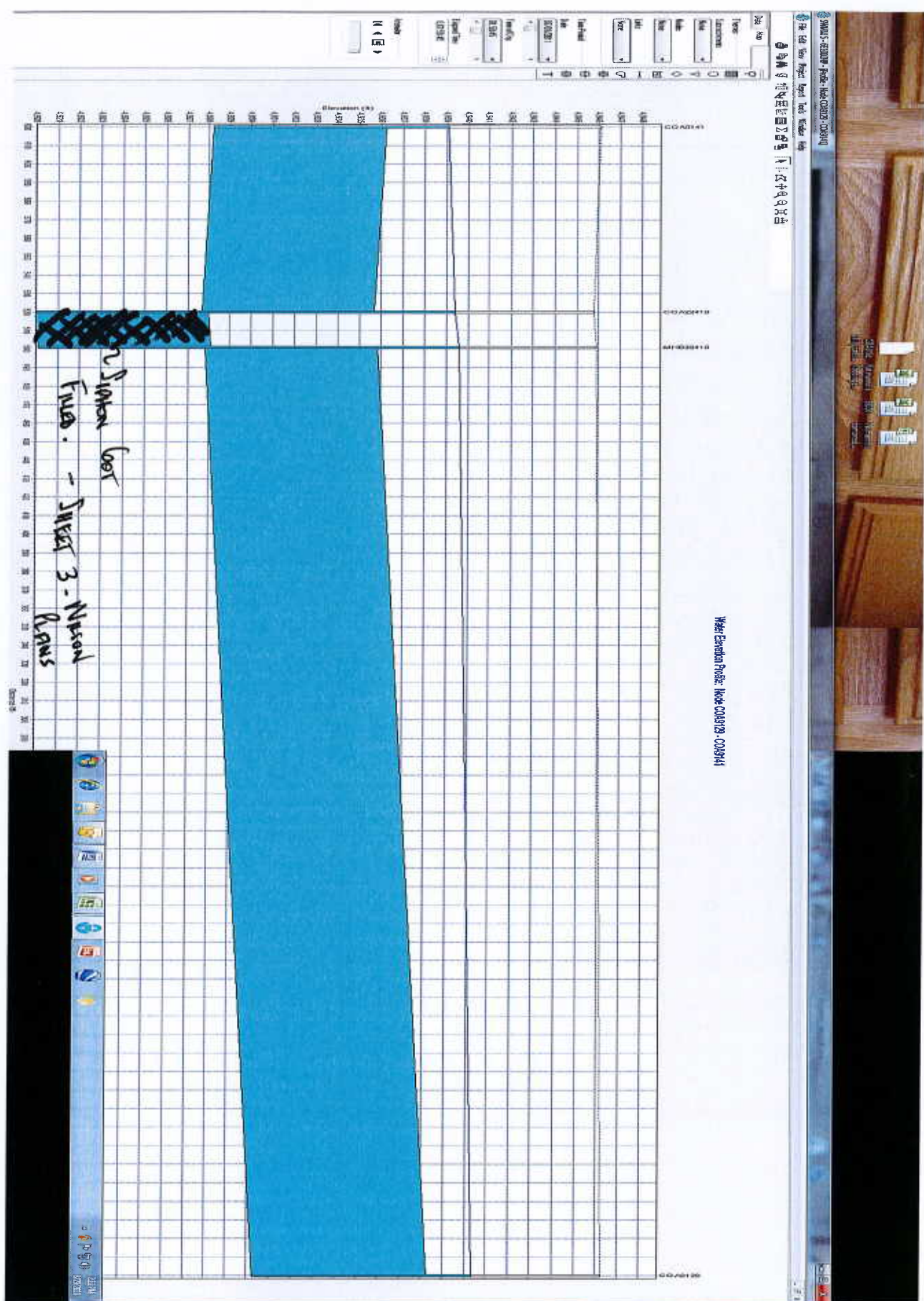
Model - Rectang. box = 8' High

$$\text{Invert @ Upstream} = 4928.36 + (24' \times .25/100) = 4928.42$$

$$\text{Invert of COA 22410} = 4928.36$$

$$\text{Invert of MMB 22410} = 4928.42$$

$$\text{MAX DEPTH} = 18.75'$$



~ Simon foot
Tried - sheet 3 - Nason
Rams

Water Control Profile: Node C048172 - C048141

CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT



CONSTRUCTION PLANS FOR

10TH AND EL BORDO SIPHON RECONSTRUCTION AND 96" PIPE REPAIRS INDEX

DESCRIPTION SHEET NO.

- | | |
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| 96" SD PIPE REPAIR/SITE MAP | 7 |
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| COLLAR DETAILS | 9 |

22410

APPROVED FOR RECORD DRAWINGS

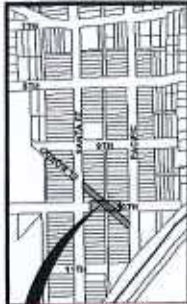
APPROVED FOR RECORD DRAWINGS

DATE

CITY PROJECT MANAGER DATE

WEEK FILE NO. 11-11-2003

SITE LOCATION



NOTES

ALL WORK SHOWN ON THESE PLANS IS TO BE PERFORMED UNDER THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1988 EDITION, AS AMENDED THROUGH UPDATE 7 INCLUDING AMENDMENT 1.

THE CITY ENGINEER HAS REVIEWED THESE PLANS AND APPROVES THEM FOR CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE CITY ENGINEER PRIOR TO ANY EXTENSION OF THE CONTRACT OR TO ANY CHANGES TO THE PLANS. THE CITY ENGINEER SHALL BE NOTIFIED OF ANY CHANGES TO THE PLANS AT LEAST 10 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN A BARRICADE PERMIT FROM THE CITY ENGINEER PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN A BARRICADE PERMIT FROM THE CITY ENGINEER PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN A BARRICADE PERMIT FROM THE CITY ENGINEER PRIOR TO BEGINNING CONSTRUCTION.

THE CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS AND LOCATIONS. THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT THE CITY ENGINEER'S PERMISSION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL SURVEY MONUMENTS AND LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL SURVEY MONUMENTS AND LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL SURVEY MONUMENTS AND LOCATIONS.

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ALBUQUERQUE, NEW MEXICO 87110
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FAX (505) 348-4072
www.wilsonco.com



City Project No. 7963.92

Sheet 1 of 9

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THE CONTRACTOR SHALL PROVIDE INGRESS AND EGRESS TO LOCAL BUSINESSES AND RESIDENCES FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL ADVISE OF AND SCHEDULE ACCESS CLOSURES, AT LEAST 24 HOURS IN ADVANCE, WITH PROPERTY OWNERS AND THE CONSTRUCTION PROJECT MANAGER.

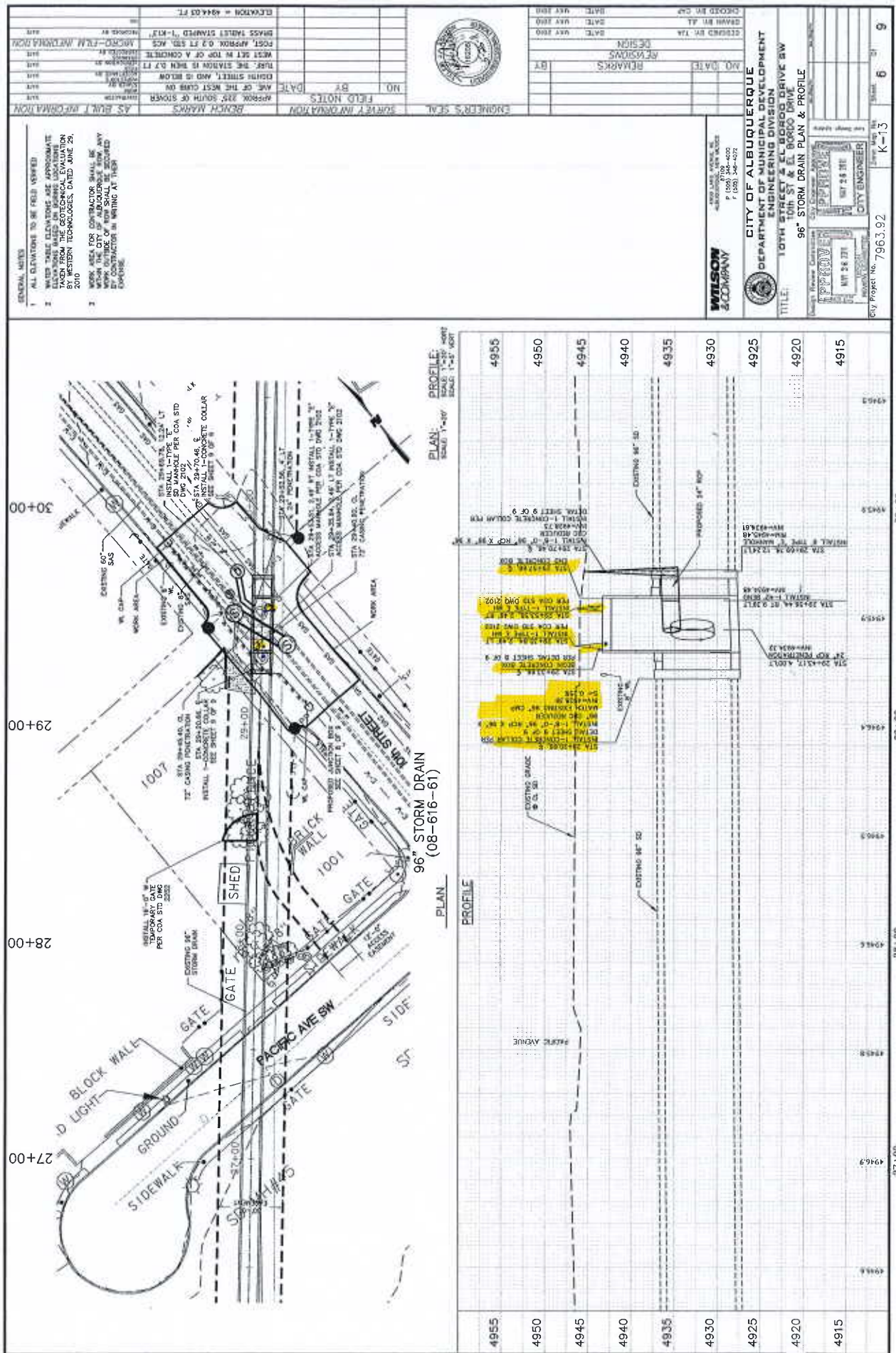
2. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR SHALL CONTACT N.M. ONE-CALL SYSTEM, (505) 280-1990, FOR LOCATION OF EXISTING UTILITIES.
3. CRITICAL INTERSECTION WORK SHALL NOT START UNTIL THE CONTRACTOR HAS ALL MATERIAL, EQUIPMENT, AND NECESSARY PERSONNEL. ON-SITE TRAFFIC CONTROL DEVICES SHALL NOT BE PLACED PREMATURELY.
4. PARKING OF CONSTRUCTION VEHICLES ON PRIVATE PROPERTY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND IS PROHIBITED WITHIN THE CLEAR ZONE DAY OR NIGHT.
5. THE CONTRACTOR SHALL NOTIFY THE ALBUQUERQUE TRAFFIC ENGINEERING DIVISION (507-8680) THREE (3) WORKING DAYS IN ADVANCE OF ANY WORK REQUIRED REGARDING ALL EXISTING REGULATORY SIGNS AND SIGNALS THAT NEED TO BE REMOVED, RELOCATED, OR REINSTALLED.
6. THE CONTRACTOR WILL BE REQUIRED TO CONFINE THEIR WORK WITHIN THE CONSTRUCTION LIMITS AND/OR RIGHT OF WAY TO PRESERVE OR DESIGNATED TRAFFIC LANE(S).
7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY BUILDING STRUCTURES ADJACENT TO THE PROJECT NOT BE DAMAGED DUE TO ANY CONSTRUCTION ACTIVITIES. DAMAGES CAUSING ANY BUILDING STRUCTURE WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, INCLUDING ALL COSTS INCURRED IN RESTORING/REPAIRING SUCH DAMAGE.
8. VIBRATION MONITORING AND SPEED TESTING SHALL BE PERFORMED IN AND AROUND ALL STRUCTURES AS DEFINED IN THE ORIGINAL WOE AND AS DIRECTED BY THE PROJECT MANAGER. "STRUCTURES" IS DEFINED AS BRIDGES, CULVERTS, CATCH BASINS, DRIP BASINS, RETAINING WALLS, AND OTHER STRUCTURES. VIBRATION MONITORING SHALL BE CONDUCTED IN THE WORK, THE CONSTRUCTION AREA, AND AROUND ADJACENT TO THE PROJECT. VIBRATION FEATURES ALSO BE VIDEO TAPED. VIBRATION MONITORING, VIDEO-TAPING, AND RELATED WORK SHALL BE PERFORMED ACCORDING TO THE SPECIFICATIONS FOR ITEM 6600 VIBRATION MONITORING, AND VIDEO TAPING, COMPLETE.
9. THE CONTRACTOR SHALL MAINTAIN AN UP TO DATE SET OF AS-BUILT PLANS FOR THE PROJECT. THESE PLANS SHALL BE KEPT CURRENT. ANY CHANGES TO THE PROJECT MANAGER SHALL BE SUBMITTED TO THE PROJECT MANAGER AND IN WRITING.
10. MAJOR SIDE VIEW ELEVATIONS SHOWN ON THEIR PLANS ARE APPROXIMATE AND WILL VARY WITH THE FINISHED PAVEMENT SURFACING. ALL BADI OF CURB RETURNS ARE SHOWN TO THE FACE OF CURB AND, UNLESS OTHERWISE NOTED, ALL OFFSETS AND DIMENSIONS ARE TO THE FACE OF CURB. MAJOR FLOWLINES OF GUTTERS WHEN CONNECTING NEW CURB AND GUTTER WITH EXISTING CURB AND GUTTER.
11. EXACT LOCATION OF DRIVEWAYS AND INTERCHANGE RAMPS WILL BE DETERMINED IN THE FIELD BY THE FIELD ENGINEER. LOCATIONS SHOWN ON PLAN AND PROFILE SHEETS ARE APPROXIMATE.
12. WHERE FULL BOXES ABUT THE BACKS OF CURB OR ARE LOCATED IN A CONCRETE PAVED AREA, PROVIDE 3/4" EXPANSION MATERIAL AROUND THE FULL BOX. ABUT THE BACKS OF CURB TO BE FUSH WITH SURFACE OF CONCRETE.
13. WHEN ADDING NEW PAVEMENT TO EXISTING, CONTRACTOR SHALL SAW CUT, TO FULL PAVEMENT DEPTH, THE EXISTING PAVEMENT TO A NEAR VERTICAL SURFACE. NEW PAVEMENT SHALL BE REQUIRED TO RELIEVE ANY BROKEN OR CRACKED PAVEMENT AND MATCH NEW TO EXISTING.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXISTING PLANNED CHANGES. EXISTING PAVEMENT, POLES, WALKS, BODIES, MANHOLES RIMS, AND TOP OF PIPE ELEVATIONS SHALL BE DETERMINED IN THE FIELD BY THE FIELD ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH THE CURRENT DETAIL DRAWINGS. ALL NEW ELEVATIONS SHALL BE CONSIDERED COLLAR AND NEW RING AND COVER TO COMPLY WITH CURRENT CANTON DETAIL DRAWINGS. THESE ITEMS ARE CONSIDERED INCIDENTAL TO THE REPLACEMENT.
15. WHEN APPEARING IN ANY PORTION OF THIS CONTRACT, THE WORDS "PLANT MIX BITUMINOUS PAVEMENT (PMBP)" WILL HAVE THE SAME MEANING AS MAY BE USED INTERCHANGEABLY WITH THE WORDS "ASPHALT CONCRETE".
16. THE SUBGRADE PREP SHALL CATCHING CURE (1) FIRST REPAIR THE BACK OF CURB.
17. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENTS, PAVEMENT MARKINGS, CURB AND GUTTERS, DRIVEWAYS, HANDICAP RAMP, AND OVERLAP DURING CONSTRUCTION APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS. AND SHALL REMOVE AND REPLACE AS PER CITY STANDARDS, AS APPLICABLE, AT THEIR OWN EXPENSE.
18. WHEN REMOVAL OF EXISTING CURB AND GUTTER OR MATERIAL IS REQUIRED, REMOVE TO NEAREST JOINT.
19. ALL CONSTRUCTION DEBRIS, SPOT, AND NON-SALVAGEABLE ITEMS BELONGING TO THE PROPERTY OF THE CONTRACTOR AND PROPER DISPOSAL OF THESE ITEMS IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY HAUL COSTS ASSOCIATED WITH THIS WORK IS CONSIDERED INCIDENTAL TO THE PROJECT.
20. ALL FINISHED GRASSES AND PROFILES SHOWN ARE APPROXIMATE. MEASURES OTHERWISE NOTED.
21. CURB AND GUTTER SHALL BE EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE DAMAGED AND REPLACED PER STD DWG 2415A BY THE CONTRACTOR AT HIS EXPENSE.
22. ALL TRENCH EXCAVATION BACKFILL WITHIN THE ROADWAY PRISM SHALL BE COMPACTED TO 95% OF THE MODIFIED PROCTOR ASTM D-1577 PER CITY STANDARDS, SECTION 701.
23. ANY EARTHWORK HAUL ON THIS PROJECT WILL BE CONSIDERED AS INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT WILL BE MADE THEREFOR.
24. STRUCTURAL FILL FOR EMBANKMENTS, PAVEMENTS, AND STRUCTURES SHALL BE PLACED IN LIFTS THAT, FOLLOWING COMPACTION, DO NOT EXCEED 6" FILL SHALL BE COMPACTED AT MOISTURE CONTENTS WITHIN +/- 2% OF OPTIMUM MOISTURE CONTENT. SELECT STRUCTURAL FILL SHALL BE PLACED IN LIFTS THAT, FOLLOWING COMPACTION, DO NOT EXCEED 4" TO THE GROUND AND MOISTURE CONTENT GREATER THAN 20%.
25. ALL EXCAVATION SHALL BE PROTECTED AGAINST COLLAPSE AND PROPERLY SHORED.

COMPANY	PHONE	MOBILE	CONTACT
ABICOMA	505-768-2713		ANTHONY MONTOYA, JR.
ABN AMRO BANK	505-697-3529	505-362-5790	CLARA BUSTAMANTE
AMERICAN GAS COMPANY	505-697-3599	505-681-4423	TONI BULLARD
AMERICAN GAS COMPANY	505-798-3357	505-239-9826	JOE RICE
AT&T	303-620-3254	720-620-2254	DAVID STOCKTON
AT&T	714-761-6221		WALTER MERTSIUK
BCI WORLDWIDE	505-348-4470		MIKE DARNELL
CONCAST	505-761-0252		MIKE MORTUS
TIME WARNER TELECOM	505-538-7339		ROYAL HARRISON
PNNI ELECTRIC CO	505-241-3698		CHRIS BLOD
QUEST	505-243-6374		ROSA KNIFEN
MCLEOD USA	505-217-0038		RICK MUELLER
QUEST LONG DISTANCE	505-246-0501		LARRY KELLY
QUEST TRAFFIC SYSTEMS	623-207-2000		BRIAN KORTO

34.2

[illegible]





GENERAL NOTES

1. ALL ELEVATIONS TO BE FIELD VERIFIED.
2. WATER TABLE ELEVATIONS ARE APPROXIMATE. LOCATIONS BASED ON EXISTING CONDITIONS. BY WESTERN TECHNOLOGIES, DATED AUGUST 2010.
3. WORK AREA FOR CONTRACTOR SHALL BE WITHIN THE CITY OF ALBUQUERQUE ROW ANY EXISTING UTILITIES SHALL BE FIELD VERIFIED BY CONTRACTOR IN WRITING AT THEIR EXPENSE.

AS BUILT INFORMATION

BRUSH MARKS APPROVED 275 SOUTH OF STATION

FIELD NOTES

NO. BY DATE

ENGINEER'S SEAL

DESIGN INFORMATION

DESIGNED BY: TIA DATE: MAY 2010
CHECKED BY: CJP DATE: MAY 2010

REVISIONS

NO.	DATE	REVISIONS
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

WILSON & COMPANY
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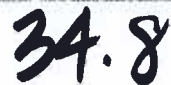
CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION
10TH STREET & CLAYTON DRIVE SW
96" STORM DRAIN PLAN & PROFILE

PROJECT INFORMATION

PROJECT NO. 7963.92
SHEET NO. K-13
DATE: MAY 2010

CITY ENGINEER
NAME: [Signature]
TITLE: [Signature]

34.6



34.9