

CITY OF ALBUQUERQUE NEW MEXICO



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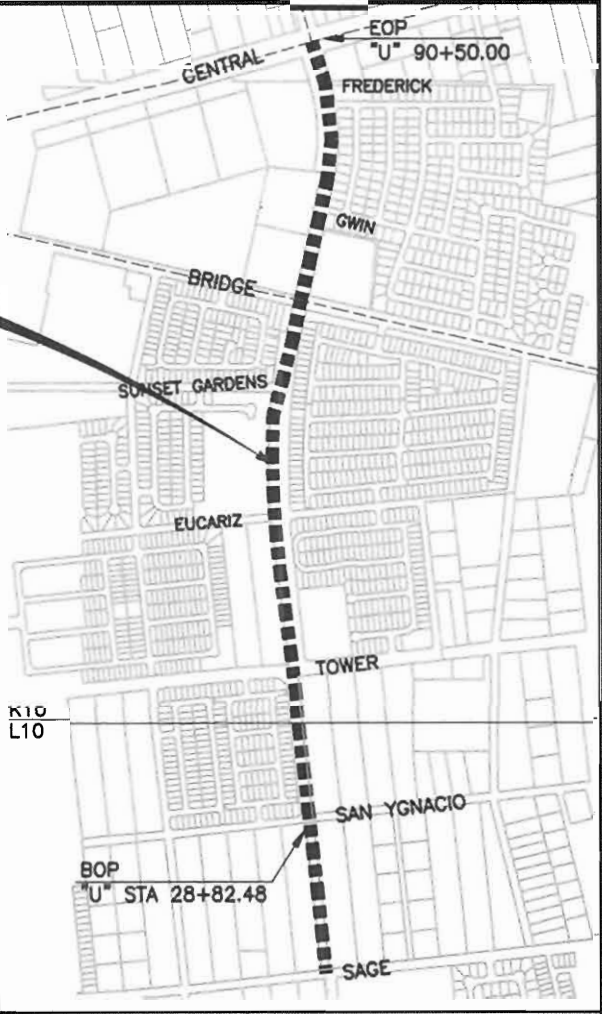
DEPARTMENT OF MUNICIPAL DEVELOPMENT CONSTRUCTION PLANS FOR UNSER BLVD. IMPROVEMENTS - SAGE TO CENTRAL COA PROJECT NO. 7699.91

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COA PROJECT
NO. 7699.91
UNSER BLVD.
PROJECT LENGTH:
1.19MI (6292.66')



LOCATION MAP
ZONE ATLAS MAPS K10, L10

NTS

[Signature]
APPROVED BY: JUAN CARLOS SAMUEL
CITY OF ALBUQUERQUE/DMD
2-17-11

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APPROVED BY: NANCY HUSINSKI, PE
ALBUQUERQUE/BERNALILLO COUNTY
WATER AUTHORITY (ABCWUA)
2/17/2011

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Many Solutions

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS		ENGINEER	DATE	*****	
		DRC Chairman				APPROVED FOR CONSTRUCTION	
		Transportation					
		Water/Wastewater					
		Hydrology					
		Parks				City Engineer Date	
		Constr. Mngmt.					
		Constr. Coord.					
		City Project No.				Sheet	Of
		7699.91				1	82

RECORD DRAWING

CITY OF ALBUQUERQUE NEW MEXICO



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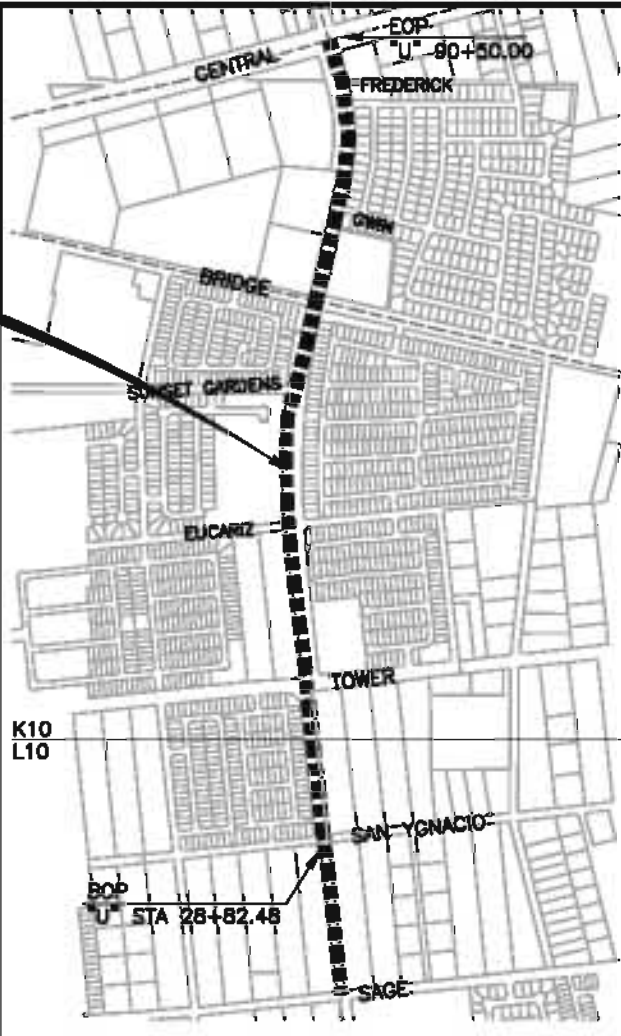
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LOCATION MAP
ZONE ATLAS MAPS K10, L10

NTS

APPROVED BY: JUAN CARLOS SAMUEL
CITY OF ALBUQUERQUE/DMD

APPROVED BY: NANCY MUSINSKI, PE
ALBUQUERQUE/BERNALILLO COUNTY
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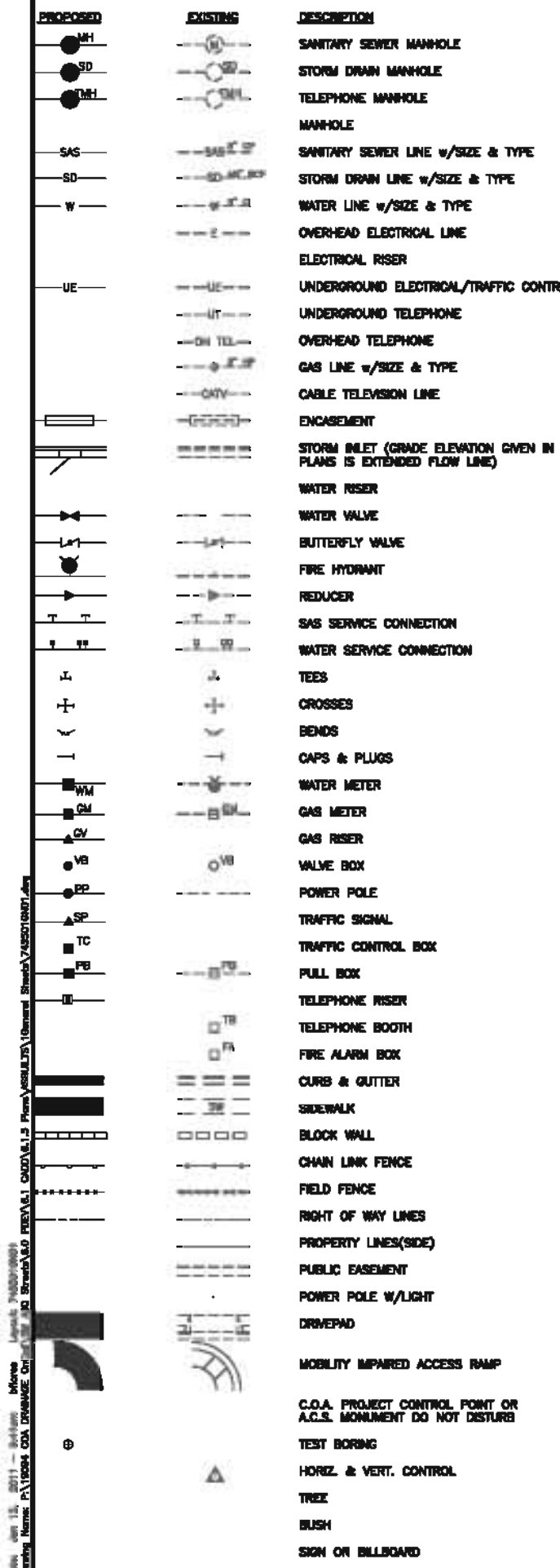
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HDR
ENGINEERING INC.

ONE COMPANY
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REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS		ENGINEER	DATE	APPROVED FOR CONSTRUCTION	
		DRG. Chairman				City Engineer	
		Transportation					
		Water/Wastewater					
		Hydrology					
		Parks					
		Constr. Mngmt.				Date	
		Constr. Coord.					
		City Project No.		Sheet		Of	
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RECORD DRAWING



- GENERAL NOTES:**
- 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.
 - IF A PAVEMENT DROP-OFF IS CREATED DURING CONSTRUCTION, THE CONTRACTOR SHALL INITIATE PROTECTIVE ACTION IN ACCORDANCE WITH THE NMDOT'S CURRENT "DROP-OFF GUIDELINE". THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.
 - NO MATERIAL PITS HAVE BEEN DESIGNATED FOR THIS PROJECT. THE CONTRACTOR MAY OBTAIN SPECIFICATION BORROW OR SURFACING MATERIAL FROM ANY ACCEPTABLE SOURCE.
 - THE CONTRACTOR SHALL CLEAN ALL EXISTING STRUCTURES THAT ARE TO REMAIN OPERATIONAL. STRUCTURES SHALL BE CLEAN AT THE TIME OF FINAL PROJECT ACCEPTANCE. THIS WORK SHALL BE CONSIDERED AS INCIDENTAL TO CONSTRUCTION. NO SEPARATE MEASUREMENT AND PAYMENT WILL BE MADE FOR CLEANING OF STRUCTURES.
 - SEVEN (7) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADE PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (824-3400) PRIOR TO OCCUPYING AN INTERSECTION.
 - THE CONTRACTOR SHALL BE RESTRICTED TO THE USE OF 38 TON NON-VIBRATING ROLLER MAXIMUM TO OBTAIN THE REQUIRED COMPACTION IN PAVEMENT STRUCTURE, ROADWAY BACKFILL, EMBANKMENT, AND SUBGRADE IN URBAN AREAS WHERE THE USE OF HEAVIER EQUIPMENT COULD DAMAGE UNDERGROUND UTILITIES OR OTHER PERMANENT STRUCTURES.
 - ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREIN, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1988 EDITION THROUGH UPDATE NO.7, INCLUDING AMENDMENT #1, AND THE NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, CURRENT EDITION, OR AS MODIFIED BY THE PROJECT SPECIFICATIONS TITLED UNDER BLVD IMPROVEMENTS, AS STATED IN THE SPECIAL PROVISIONS.
 - TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT N.J.L. ONE-CALL SYSTEM, 280-1990, FOR LOCATION OF EXISTING UTILITIES.
 - ALL NEW STREET PAVING, CURB AND GUTTER, SIDEWALKS OR DRIVEPADS SHALL MATCH THE ELEVATIONS OF ADJUTING EXISTING AREAS AS SHOWN IN THE PLANS OR AS DIRECTED BY THE PROJECT MANAGER.
 - THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION ACTIVITIES WITH ALL OTHER CONTRACTORS AND UTILITY COMPANIES WORKING IN THE SAME AREA. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE THEIR ACTIVITIES TO ALLOW ADDITIONAL CREWS TO PERFORM THEIR REQUIRED WORK. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCE CAUSED BY UTILITY COMPANY WORK CREWS.
 - WHEN ADJUTING NEW PAVEMENT TO EXISTING, CONTRACTOR SHALL SAW CUT, TO FULL PAVEMENT DEPTH, THE EXISTING PAVEMENT TO A NEXT VERTICAL STRAIGHT LINE AS REQUIRED TO REMOVE ANY BROKEN OR CRACKED PAVEMENT AND MATCH NEW TO EXISTING. THIS WORK SHALL BE CONSIDERED INCIDENTAL AND NO ADDITIONAL PAYMENT WILL BE MADE THEREFOR.
 - THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENTS, PAVEMENT MARKINGS, CURB AND GUTTER, OR SIDEWALK DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS, AND SHALL REPAIR OR REPLACE PER CITY OF ALBUQUERQUE STANDARDS AT HIS OWN EXPENSE.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING, AT HIS OWN EXPENSE, ALL PERMITS NECESSARY FOR CONSTRUCTION.
 - ALL WORK IMPACTING AN ARTERIAL ROADWAY MAY REQUIRE 24-HOUR CONSTRUCTION IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE'S ORANGE BARRIEL POLICY. THE PROJECT MANAGER SHALL DETERMINE IF MARATHON CONSTRUCTION IS REQUIRED AND COORDINATE WITH THE CONTRACTOR.
 - 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.
 - OVERNIGHT PARKING OF CONSTRUCTION VEHICLES ON PRIVATE PROPERTY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT HORIZONTAL AND VERTICAL CONTROL SURVEY MONUMENTS, AS SHOWN ON SHEETS 6 AND 7, PRIOR TO INITIATING CONSTRUCTION. IF DURING THE COURSE OF CONSTRUCTION OPERATIONS, THE CONTRACTOR DISTURBS OR DESTROYS A MONUMENT, THE CONTRACTOR SHALL NOTIFY THE CITY SURVEYOR. THE MONUMENT SHALL ONLY BE REPLACED BY THE CITY SURVEY SECTION AT THE CONTRACTOR'S EXPENSE.
 - ALL TRENCH EXCAVATION BACKFILL WITHIN THE ROADWAY PRISM SHALL BE COMPACTED TO 90% OF THE MODIFIED PROCTOR PER ASTM D-698 OR D-1557 AS APPLICABLE.
 - ANY EARTHWORK HAIL ON THIS PROJECT WILL BE CONSIDERED AS INCLUDED IN THE CONTRACT PRICE FOR ITEM 0202.01 - EXCAVATE AND DISPOSE.
 - DISPOSE OF UNCLASSIFIED MATERIAL AND NO SEPARATE PAYMENT WILL BE MADE THEREFOR.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVALS REQUIRED TO COMPLETE THE PROJECT. ADDITIONAL REMOVALS NOT SHOWN ON THE PLANS WILL BE CONSIDERED AS INCLUDED IN THE CONTRACT PRICE FOR 0202.01 - REMOVE AND SALVAGE OR DISPOSE STRUCTURES AND OBSTRUCTIONS.
 - BID ITEMS 0343.030- SAWCUT, REMOVE AND DISPOSE ASPHALT CONCRETE PAVEMENT, ANY DEPTH ARE INCLUDED FOR PAVEMENT REMOVALS IN AREAS WHERE THE ROADWAY WILL NOT BE IMMEDIATELY ADJUSTED TO NEW GRADES AS SHOWN IN THE PLANS.
 - THE CONSTRUCTION CLEAR ZONE FOR THIS PROJECT IS 14 FEET FROM THE EDGE OF DRIVING LANE. THE CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIAL WITHIN THE CONSTRUCTION CLEAR ZONE UNLESS THE EQUIPMENT OR MATERIAL IS PROPERLY SHIELDED UTILIZING CURRENT SAFETY DESIGN AND INSTALLATION METHODS. THE SAFETY DESIGN FOR SHIELDING SHALL BE PROVIDED BY THE CONTRACTOR AND MUST BE APPROVED BY THE PROJECT MANAGER BEFORE IMPLEMENTING. THIS WORK INCLUDING DESIGN, INSTALLATION, AND REMOVAL OF THE SHIELDING, SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.
 - WHEN EXISTING TRAFFIC SIGNALS ARE TURNED OFF, THE CONTRACTOR SHALL HAVE AN OFF-DUTY POLICE OFFICER DIRECT TRAFFIC. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO ADDITIONAL PAYMENT WILL BE MADE.
 - THROUGHOUT THE LIFE OF THIS PROJECT, THE CONTRACTOR SHALL KEEP THE LOCAL NEWS MEDIA INFORMED OF CONSTRUCTION ACTIVITIES WHICH WILL IMPEDE OR DISRUPT THE NORMAL FLOW OF TRAFFIC.
 - THE CONTRACTOR SHALL MAINTAIN AN UP TO DATE SET OF AS-BUILT PLANS FOR THE PROJECT. THESE PLANS SHALL BE KEPT CURRENT, WITHIN TWO WEEKS AT ALL TIMES AND SHALL BE SUBJECT TO REVIEW BY THE PROJECT MANAGER THROUGHOUT THE PROJECT AND WILL BE REVISY BY THE CONTRACTOR FOR ACCURACY AND COMPLETENESS AT LEAST ONCE EVERY 30 DAYS. THE FINAL AS-BUILT PLANS SHALL BE SUBMITTED TO THE PROJECT MANAGER PRIOR TO FINAL PAYMENT.
 - THE DESIGN "W"-VALUE FOR THIS PROJECT IS 55. MATERIAL WITH A "W"-VALUE LESS THAN THE DESIGN "W"-VALUE SHALL NOT BE PLACED IN OR BE ALLOWED TO REMAIN WITHIN THE TOP 24-INCHES OF FINISHED SUBGRADE.

INCIDENTAL ITEMS

- CORRECTION OF PAVEMENT DROP-OFF. SEE GENERAL NOTE 2, THIS SHEET.
- CLEAN EXISTING STRUCTURES. SEE GENERAL NOTE 4, THIS SHEET.
- MATCHING EXISTING PAVEMENTS. SEE GENERAL NOTE 11, THIS SHEET.
- CLEAR ZONE SHIELDING. SEE GENERAL NOTE 22, THIS SHEET.
- OFF-DUTY POLICE OFFICER. SEE GENERAL NOTE 23, THIS SHEET.
- TEMPORARY BRACING, SEE GENERAL UTILITIES NOTE 16, SHEET 3.

PROJECT DESCRIPTION:

THIS PROJECT INCLUDES CONSTRUCTING NEW PAVEMENT SECTIONS ALONG UNTER BLVD TO CONVERT AN EXISTING 2 LANE FACILITY TO A 4 LANE FACILITY. ADDITIONAL WORK INCLUDES: CURB & GUTTER, PAVEMENT REMOVAL, SIDEWALKS, RAMP, MINOR DRAINAGE IMPROVEMENTS, SANITARY SEWER INSTALLATION, SIGNALIZATION AND SIGNING AND STRIPING.



WHEN APPEARING IN ANY PORTION OF THIS CONTRACT, THE WORDS "PLANT MIX BITUMINOUS PAVEMENT" (PMBP) WILL HAVE THE SAME MEANING AS AND MAY BE USED INTERCHANGEABLY WITH THE WORDS "ASPHALT CONCRETE".

UTILITY OWNERS

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Jaramillo, Rita	Office phone: (505) 245-8352 Office fax: (505) 245-8733 Mobile: (505) 715-8283 Pager: (505) 381-3347 michael.valerde@qwest.com	Qwest Manager Engineering NM Engineering/Planning 400 Tijeras NW, Room 710 Albuquerque, NM 87102

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ROBERT L. LUNA, PE, PTOE
PROJECT MANAGER

MARY C. LOVATO
PROJECT DESIGNER

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HDR ONE COMPANY
Engineering Inc.
Many Solutions

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION

TITLE: UNTER BLVD. IMPROVEMENTS - SAGE TO CENTRAL
LEGEND, GENERAL NOTES INCIDENTALS & UTILITY OWNERS

Design Review Committee	City Engineer Approval	DATE: 10/26/07	DATE: 10/26/07

City Project No. 7699.91 Zone Map No. K10, L10 Sheet 2 of 82

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- SANITARY SEWER SYSTEM:**

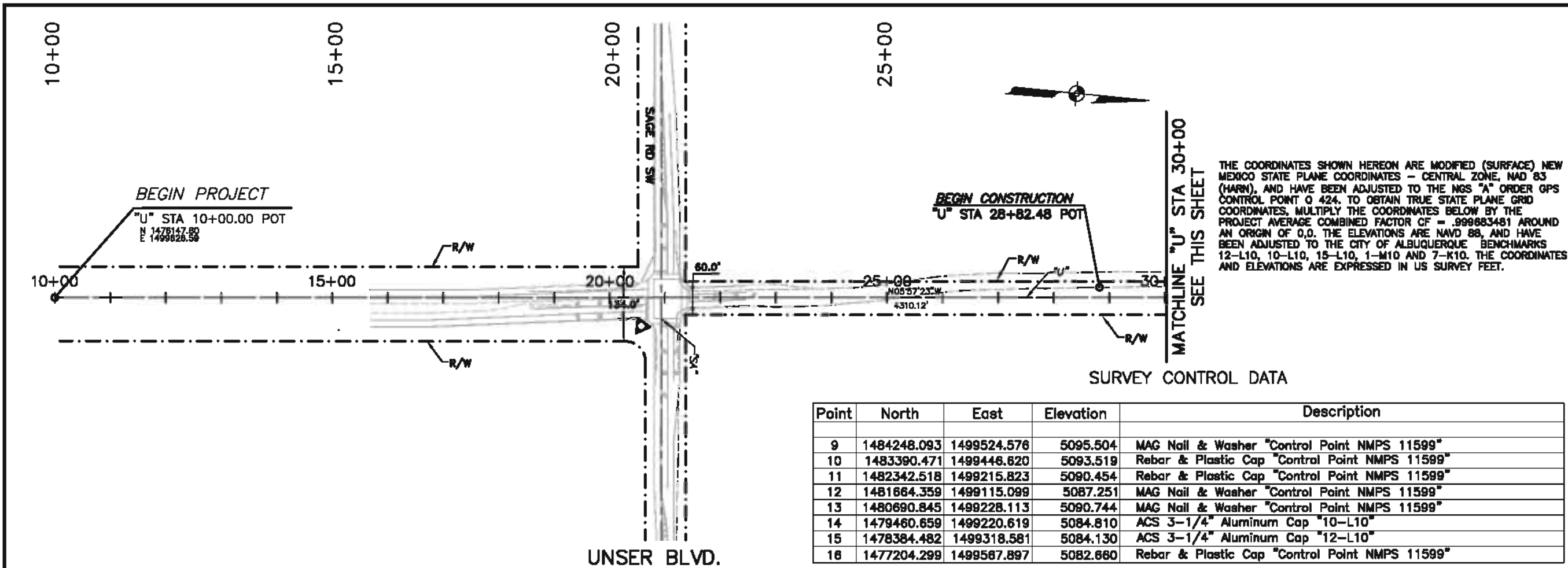
- WATER SYSTEM:**

- WHEN APPEARING IN ANY PORTION OF THIS CONTRACT, THE WORDS "PLANT MIX BITUMINOUS PAVEMENT" (PMBP) WILL HAVE THE SAME MEANING AS AND MAY BE USED INTERCHANGEABLY WITH THE WORDS "ASPHALT CONCRETE".

1. ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITIES SHOWN ON THE PLANS, SHOWN IN AN APPROXIMATE LOCATION ONLY BASED ON THE INFORMATION PROVIDED TO THE ENGINEER BY OTHERS THAT MAY BE INACCURATE OR INCOMPLETE. ADDITIONALLY, UNDERGROUND LINES MAY EXIST THAT ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK. ANY DAMAGE TO ANY OTHER UTILITIES OR COLLATERAL DAMAGE CAUSED BY THE CONTRACTOR SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR.
2. CONTRACTOR SHALL CONTACT THE STATEWIDE UTILITY LOCATOR SERVICE AT 800-321-2537/260-1990 AT LEAST TWO WORKING DAYS BEFORE BEGINNING CONSTRUCTION. AFTER THE UTILITIES ARE SPOTTED, THE CONTRACTOR SHALL EXPOSE ALL PERTINENT UTILITIES TO VERIFY THEIR VERTICAL AND HORIZONTAL LOCATION. IF A CONFLICT EXISTS BETWEEN EXISTING UTILITIES AND PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMAL DELAY.
3. CONTRACTOR SHALL EXERCISE DUE CARE TO AVOID DISTURBING ANY EXISTING UTILITIES, ABOVE OR BELOW GROUND. UTILITIES THAT ARE DAMAGED BY CARELESS CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO PREVENT DISRUPTION TO SERVICE. SEE SECTION 18 "UTILITIES" COA STANDARD SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS.
4. ALL UTILITY LINES NOT SPECIFICALLY DESIGNATED TO BE REMOVED AND REPLACED ON THE PLANS, SHALL BE MAINTAINED IN SERVICE. SHORING, SHEETING AND OTHER MEANS OF SUPPORT SHALL BE EMPLOYED BY THE CONTRACTOR TO PREVENT DAMAGE OR LOSS OF THESE EXISTING UTILITIES. BEAM AND CABLE OR OTHER ADEQUATE SUPPORTS SHALL BE USED FOR TEMPORARY SUPPORT OF ALL UTILITY LINES AS NECESSARY.
5. CONTRACTOR SHALL PROVIDE A UTILITY SUPPORT DESIGN FOR ALL LARGE AND/OR CRITICAL SERVICES (E.G. COMMUNICATIONS AND ELECTRIC DUCT BANKS, EXPOSED GRAVITY LINE JOINTS, PRESSURIZED WATER LINES, SEWER FORCE MAINS, ETC.) SUPPORT FOR THESE CRITICAL SERVICES SHALL BE DESIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER AND SUBMITTED TO OWNER FOR APPROVAL. THE DESIGN AND INSTALLATION OF BOTH CRITICAL AND NON CRITICAL SUPPORTS SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE. ANY DAMAGE TO EXISTING UTILITIES SHALL PROMPTLY BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY SIGNIFICANT DEVIATION OF EXPOSED UTILITIES FROM THE LOCATIONS SHOWN ON THE PLANS SO THAT CONFLICTS CAN BE RESOLVED IN A TIMELY MANNER.
6. CONTRACTOR SHALL COORDINATE WITH PERTINENT UTILITY COMPANIES OF ALL EXISTING UTILITY LINES AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR SHALL RESCHEDULE HIS ACTIVITIES AS NECESSARY TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.
7. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL CONFLICTING UTILITIES AT NO ADDITIONAL COST TO THE OWNER. SHOULD A CONFLICT EXIST BETWEEN THE FIELD INFORMATION AND THE PLANS, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER SO THE CONFLICT CAN BE RESOLVED WITH MINIMUM DELAY.
8. ALL INTERFERING PORTIONS OF ABANDONED UTILITY LINES WHICH ARE EXPOSED AS A RESULT OF CONSTRUCTION SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
9. CONTRACTOR SHALL COORDINATE ANY REQUIRED UTILITY INTERRUPTIONS WITH THE AFFECTED UTILITY COMPANY A MINIMUM OF THREE WORKING DAYS BEFORE THE INTERRUPTION.
10. EXISTING VALVES SHALL ONLY BE OPERATED BY THE APPROPRIATE UTILITY COMPANY. CONTRACTOR SHALL NOTIFY THE UTILITY A MINIMUM OF SEVEN (7) WORKING DAYS BEFORE ANY VALVE, NEW OR EXISTING, NEEDS TO BE OPERATED.
11. ANY DAMAGE TO THE EXISTING FACILITIES (CURB & GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS' EXPENSE.
12. ALL EXCAVATION STANDARD SPECIFICATIONS WILL BE GOVERNED BY FEDERAL, STATE AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
13. FOR PIPE TRENCH EXCAVATION, CONTRACTOR SHALL COMPLY WITH THE OSHA REGULATIONS STANDARD NO. 1926. TRENCH SUPPORT AND TEMPORARY SHORING SHALL BE REQUIRED FOR PROTECTION OF LIFE AND LIMB DURING PIPE CONSTRUCTION TO SATISFY CONSTRAINTS IDENTIFIED IN THE DRAWINGS FOR LIMITS OF DISTURBANCE, PROTECTION OF EXISTING UTILITIES, TRAFFIC CONTROL, ETC. AND SHALL BE DESIGNED BY CONTRACTOR IN ACCORDANCE WITH OSHA STANDARDS.
14. ALL EXCAVATED MATERIAL THAT IS NOT REQUIRED TO BE REUSED SHALL BE REMOVED FROM THE PROJECT AREA WITHIN FOUR (4) DAYS OF EXCAVATION. SPOIL PILES WILL BE ALLOWED ONLY AS DIRECTED BY THE PROJECT MANAGER.
15. MINIMUM BOTTOM WIDTH OF TRENCHES FOR RIGID AND NON-RIGID PIPE SHALL BE AS SHOWN IN THE TRENCH DETAIL.
16. DESIGN AND CONSTRUCTION OF ALL FORMS, SHORING, AND TEMPORARY BRACING SHALL COMPLY WITH 29 CFR 1926 AND THESE COSTS SHALL BE CONSIDERED INCIDENTAL TO THE TRENCHING AND BACKFILL COSTS.
17. ANY POTHOLE DATA ON THESE PLANS ARE FOR INFORMATION ONLY AND ARE NOT TO RELIEVE THE CONTRACTOR FROM RESPONSIBILITY TO CONDUCT POTHOLE EXCAVATION IN ADVANCE OF CONSTRUCTION.
18. CONTRACTOR SHALL CONSTRUCT SAFETY/SECURITY FENCING AROUND ALL OPEN EXCAVATIONS OR REFILL PORTION OF OPEN TRENCH AT NO ADDITIONAL COST TO OWNER.
19. CONTRACTOR TO SUPPORT ANY UTILITY THAT IS ENCOUNTERED DURING EXCAVATION AT NO ADDITIONAL COST TO OWNER.

2885 LOUISIANA BLVD., NE SUITE 400 ALBUQUERQUE, NM 87110 (505) 263-6200 FAX (505) 263-6244				ONE COMPANY <i>Many Solutions</i>		NO. DA.		DESIGNED BY		DRAWN BY		CHECKED BY	
 CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT TRANSPORTATION DEVELOPMENT DIVISION													
TITLE: UNSER BLVD. IMPROVEMENTS - SAGE TO CENTRAL GENERAL NOTES INCIDENTALS CONTINUED													
Design Review Committee			City Engineer Approval			Last Design Update	11/26/17		11/26/17				
City Project No. 7699.91			Zone Map No. K10, L10				Sheet 3 of 82						

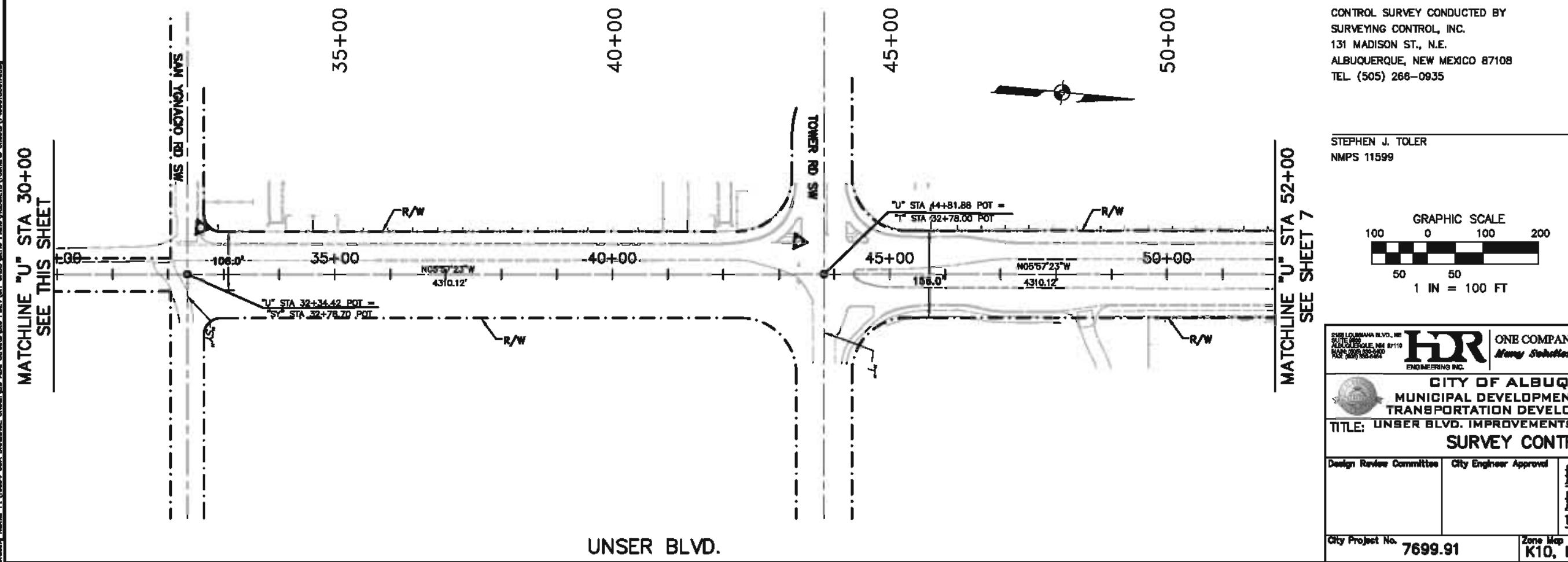
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User: jtoler
Title: 7699_01.dwg
Project: 7699_01



SURVEY CONTROL DATA

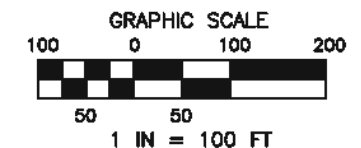
Point	North	East	Elevation	Description
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10	1483390.471	1499448.620	5093.519	Rebar & Plastic Cap "Control Point NMPS 11599"
11	1482342.518	1499215.823	5090.454	Rebar & Plastic Cap "Control Point NMPS 11599"
12	1481864.359	1499115.099	5087.251	MAG Nail & Washer "Control Point NMPS 11599"
13	1480690.845	1499228.113	5090.744	MAG Nail & Washer "Control Point NMPS 11599"
14	1479460.659	1499220.619	5084.810	ACS 3-1/4" Aluminum Cap "10-L10"
15	1478384.482	1499318.581	5084.130	ACS 3-1/4" Aluminum Cap "12-L10"
16	1477204.299	1499587.897	5082.660	Rebar & Plastic Cap "Control Point NMPS 11599"

THE COORDINATES SHOWN HEREON ARE MODIFIED (SURFACE) NEW MEXICO STATE PLANE COORDINATES - CENTRAL ZONE, NAD 83 (HARN), AND HAVE BEEN ADJUSTED TO THE NGS "A" ORDER GPS CONTROL POINT 0 424. TO OBTAIN TRUE STATE PLANE GRID COORDINATES, MULTIPLY THE COORDINATES BELOW BY THE PROJECT AVERAGE COMBINED FACTOR CF = .999883481 AROUND AN ORIGIN OF 0,0. THE ELEVATIONS ARE NAVD 88, AND HAVE BEEN ADJUSTED TO THE CITY OF ALBUQUERQUE BENCHMARKS 12-L10, 10-L10, 15-L10, 1-M10 AND 7-K10. THE COORDINATES AND ELEVATIONS ARE EXPRESSED IN US SURVEY FEET.



CONTROL SURVEY CONDUCTED BY
SURVEYING CONTROL, INC.
131 MADISON ST., N.E.
ALBUQUERQUE, NEW MEXICO 87108
TEL. (505) 266-0935

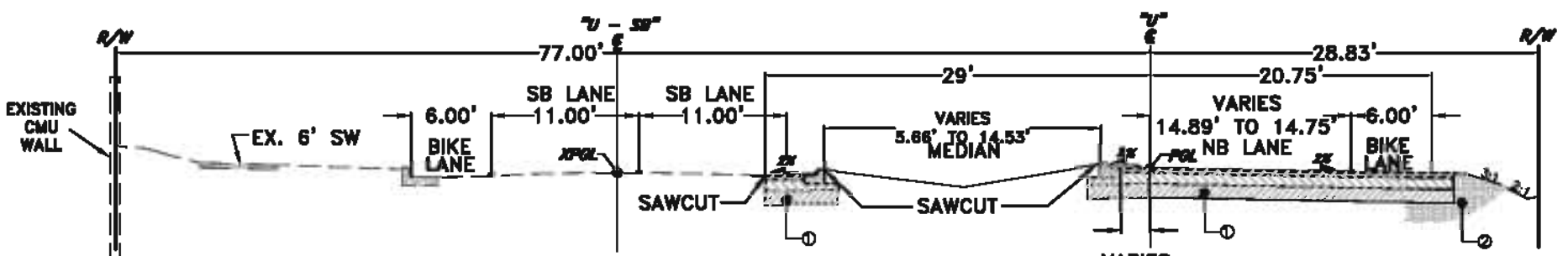
STEPHEN J. TOLER
NMPS 11599



ONE COMPANY
HDR
ENGINEERING INC.
Many Solutions

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT TRANSPORTATION DEVELOPMENT DIVISION	
TITLE: UNSER BLVD. IMPROVEMENTS - SAGE TO CENTRAL	
SURVEY CONTROL	
Design Review Committee	City Engineer Approval
City Project No. 7699.91	Zone Map No. K10, L10
Sheet 6A	Of 82

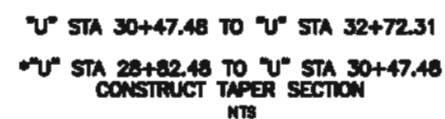
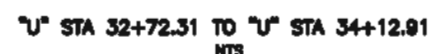
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	NO.	DATE	BY	DATE	BY	DATE	BY										
								REVISIONS	DATE	BY	DATE	BY					
													NO.	DATE	BY	DATE	BY
REVISIONS		REVISIONS		REVISIONS		REVISIONS											
DESIGNED BY: MCL		DATE: 01/14/2008		DATE: 01/14/2008		DATE: 01/14/2008											
DRAWN BY: MCL		DATE: 01/14/2008		DATE: 01/14/2008		DATE: 01/14/2008											
CHECKED BY: EAH		DATE: 01/14/2008		DATE: 01/14/2008		DATE: 01/14/2008											



UNSER-PROPOSED
TYPICAL SECTION A

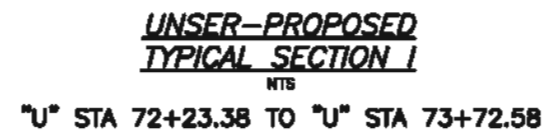
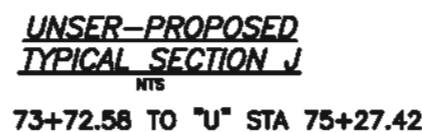
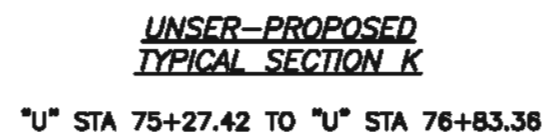
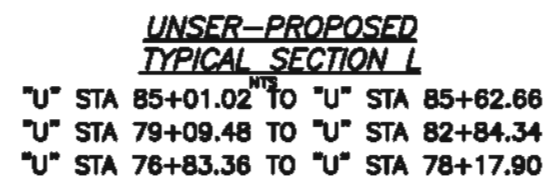
"U" STA 33+94.66 TO "U" STA 35+40.00

2451 LOURMANA BLVD., NW SUITE 100 ALBUQUERQUE, NM 87110 (505) 255-8340 FAX: (505) 255-8344		 HDR ENGINEERING INC.		ONE COMPANY <i>Many Solutions</i>		NO. DA <table border="1"> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>														DESIGNED BY DRAWN BY CHECKED BY	
 CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT TRANSPORTATION DEVELOPMENT DIVISION																					
TITLE: USNER BLVD. IMPROVEMENTS - SAGE TO CENTRAL																					
PROPOSED TYPICAL SECTIONS																					
Design Review Committee			City Engineer Approval			Last Design Update		11/15/91													
City Project No. 7699.91			Zone Map No. K10. L10			Sheet 9 Of 82															



- | | | | | |
|---------------------------------|------------------------|---|------------------------------|------------|
| Design Review Committee | City Engineer Approval | <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> Date of Review: _____
 Date of Approval: _____ </div> | Rev./Rev'n | Rev./Rev'n |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| City Project No. 7699-91 | | Zone Map No. K10. L10 | Sheet 9A Of 82 | |

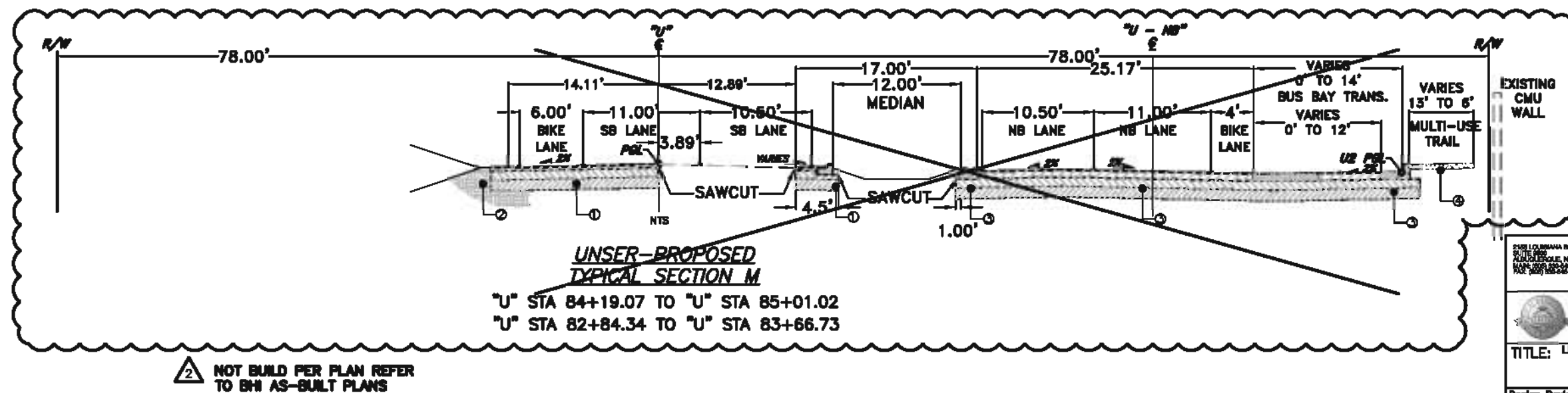
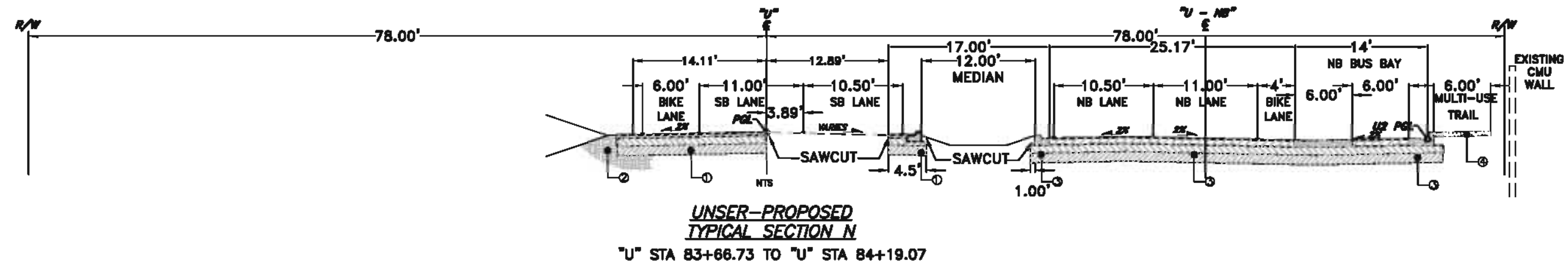
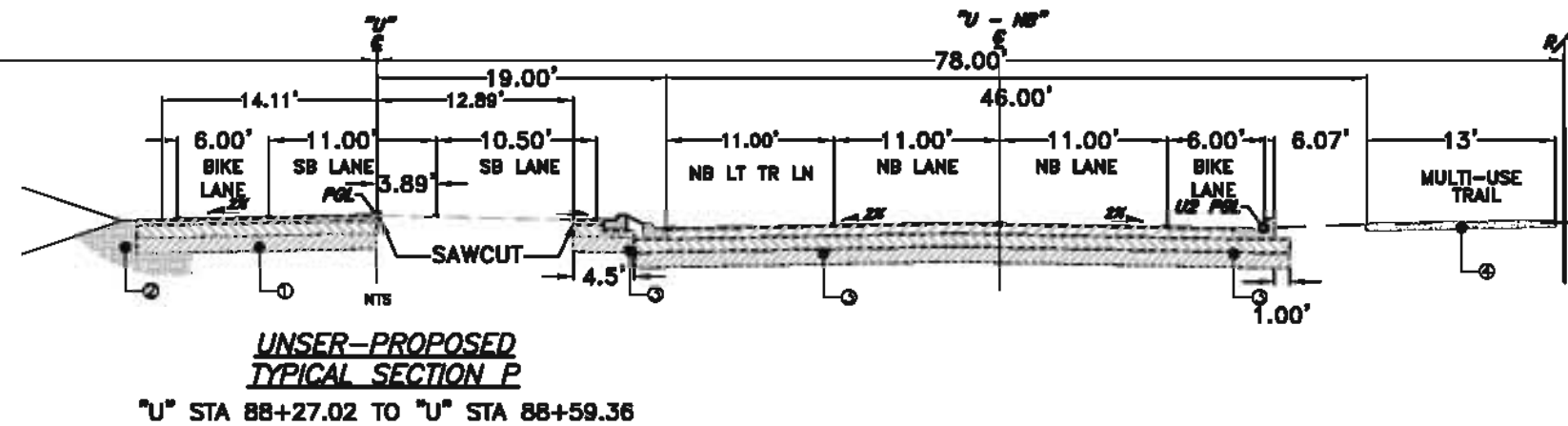
\$ Y		ENGINEER'S SEAL		SURVEY INFORMATION FIELD NOTES		BENCH MARKS ACS 3K aluminum cap, stamped "10-110", set flush on top of concrete curb in the Southwest quadrant, Northeast nose of traffic central island at the intersection of Tower Road SW and Unser Boulevard SW. Second Order, First Class NGVD29		AS BUILT INFORMATION CONTRACTOR: AUI INC. DATE: 12/08 DESIGNED BY: AUI INC. DATE: 12/08 CHECKED BY: AUI INC. DATE: 12/08 APPROVED BY: AUI INC. DATE: 12/08 REVISIONS: AUI INC. DATE: 12/08 MICRO-FILM INFORMATION RECORDED BY: AUI INC. DATE: 12/08	
NO. DATE		REMARKS		NO. BY		NO. BY		NO. BY	
DESIGNED BY: MCL DATE: 01/22/2008		HDR ENGINEERING INC.		NO. BY		NO. BY		NO. BY	
DRAWN BY: MCL DATE: 01/22/2008		REMARKS		NO. BY		NO. BY		NO. BY	



- KEYED NOTES:**
1. BUILD TEMPORARY STRUCTURAL SECTION.
SEE SHEET 15.
 2. BUILD TAPER SECTION W/ BICYCLE LANE.
SEE SHEET 15.
 3. BUILD PERMANENT STRUCTURAL SECTION.
SEE SHEET 15.
 4. BUILD MULTI-USE TRAIL STRUCTURAL
SECTION. SEE SHEET 15.

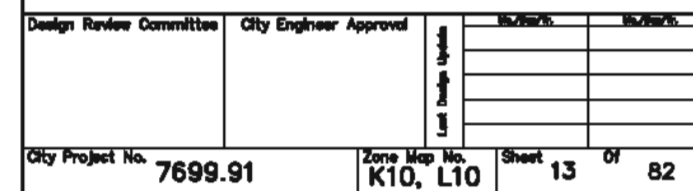
- GENERAL NOTES:**
1. CONTRACTOR SHALL TAKE EXTRA CARE IN NOT DISTURBING THE EXISTING MULTI-USE TRAIL ANY AND ALL DESTROYED AREAS MADE BY THE CONTRACTOR SHALL BE REPLACED AT THEIR OWN EXPENSE.

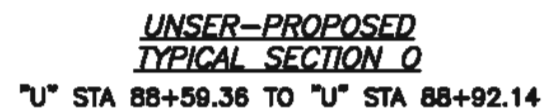
1. BUILD TEMPORARY STRUCTURAL SECTION.
SEE SHEET 15.
2. BUILD TAPER SECTION W/ BICYCLE LANE.
SEE SHEET 15.
3. BUILD PERMANENT STRUCTURAL SECTION.
SEE SHEET 15.
4. BUILD MULTI-USE TRAIL STRUCTURAL
SECTION. SEE SHEET 15.



2 NOT BUILD PER PLAN REFER TO BHI AS-BUILT PLANS

[illegible]





- KEYED NOTES:**
1. BUILD TEMPORARY STRUCTURAL SECTION.
SEE SHEET 15.
 2. BUILD TAPER SECTION W/ BICYCLE LANE.
SEE SHEET 15.
 3. BUILD PERMANENT STRUCTURAL SECTION.
SEE SHEET 15.
 4. BUILD MULTI-USE TRAIL STRUCTURAL
SECTION. SEE SHEET 15.

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	DATE	REMARKS	BY	NO.	DATE	CONTRACTOR	DATE
2	07/10	PER COA DMD (ACS)	HDR			ACS 3K" aluminum cap, stamped "10-L10", set flush on top of concrete curb in the Southwest quadrant, Northeast nose of traffic central island at the intersection of Tower Road SW.	DATE 12/08
NO. DATE		REMARKS		BY		REVISION BY	DATE 12/08
						APPROVED BY	DATE 12/08
						RECORDED BY	DATE 02/08
						MICRO-FILM INFORMATION	DATE
						NO.	

The diagram illustrates a 4' x 4' x 4' test cell with four layers of material. The layers are defined by their thickness and compaction level:

- EMBANKMENT 90% COMPACTION**: The top layer, with a thickness of 8".
- 12" SUBBASE 95% COMPACTION**: The second layer from the top, with a thickness of 10".
- 10" AG BASE (4"/6" LIFTS)**: The third layer from the top, with a thickness of 12".
- 8" PMBP SP-III (2"/3"/3" LIFTS)**: The bottom layer, with a thickness of 10".

The diagram also shows the lift heights for each layer, indicated by arrows and numbers on the left side of the cell:

- 8" lift for the embankment layer.
- 10" lift for the subbase layer.
- 12" lift for the aggregate base layer.
- 10" lift for the PMBP layer.

Diagram illustrating the pavement structure for a 4-inch PMBP SP-III (2-2" lifts) pavement. The structure consists of the following layers (from top to bottom):

- 4" PMBP SP-III (2-2" lifts)
- 10" AG BASE
- 12" SUBBASE (95% COMPACTION)
- EMBANKMENT (90% COMPACTION)

The total thickness of the pavement structure is 26 inches (10" + 12" + 4").

The diagram illustrates a cross-section of a road embankment. The top surface is a 4% grade. The embankment is composed of several layers: a 4-inch PMBP SP-III layer, a 10-inch AG Base, a 12-inch Subbase (95% compaction), and a 90% compaction embankment. The total width of the embankment at the top is 14 feet, with a 1-foot shoulder on the left and an 8-foot shoulder on the right. The embankment slopes at a 4:1 ratio. The bottom of the embankment is a 2:1 slope, with a 2:1 cut indicated on the right side.

A cross-sectional diagram of a road shoulder. The diagram shows a sloped shoulder on the right side of a road. The shoulder is composed of several layers: a top layer of 4" PMBP SP-III, followed by a 10" AG BASE, a 12" SUBBASE (95% COMPACTION), and an EMBANKMENT (90% COMPACTION). A PIN CURB is shown on the left side of the shoulder. The shoulder slope is indicated as 3:1. Dimensions of 1' and 1' are shown for the top of the shoulder. A 4" dimension is shown for the width of the shoulder at the base of the curb.

PIN CURB

4"

1' 1'

3:1

EMBANKMENT
90% COMPACTION

12" SUBBASE
95% COMPACTION

10" AG BASE

4" PMBP SP-III

The diagram illustrates a cross-section of a road embankment. The top surface is divided into three horizontal segments: a 1' segment on the left, a 5' segment in the middle, and a 2' segment on the right. A vertical line labeled '7'' spans the entire top width. On the left side, a vertical dimension of 4" is shown for the top layer. A 'STRIPE' is indicated on the top surface. The embankment slopes down to the right, with a 4:1 slope indicated for the upper part and a 2:1 slope for the lower part. A dashed line represents the '2:1 CUT' and another solid line represents the '2:1 FILL'. The embankment is composed of several layers: a top layer of 4" PMBP SP-III (2-2" lifts), followed by a 10" AG BASE, a 12" SUBBASE (95% compaction), and an EMBANKMENT (90% compaction). The bottom layer is hatched with diagonal lines.

2"

6"

EMBANKMENT
90% COMPACTION

6" SUBBASE
95% COMPACTION

2" PMBP SP-IV

2

MED. BARR. C&G

1'

VARIES

8"

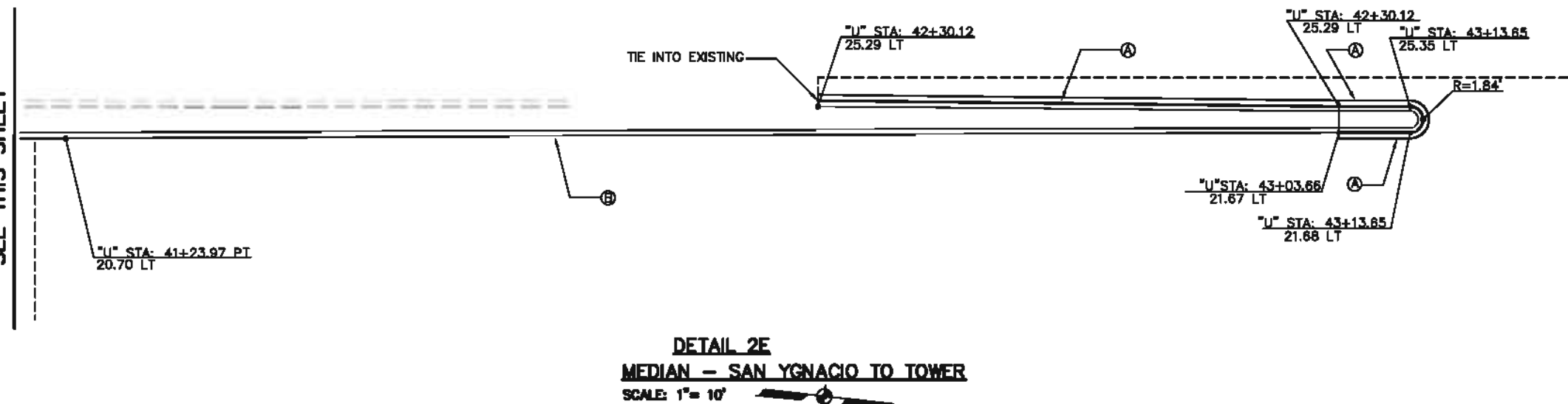
8" PMBP SP-III

10" AG BASE

12" SUBBASE
95% COMPACTION

EMBANKMENT
90% COMPACTION

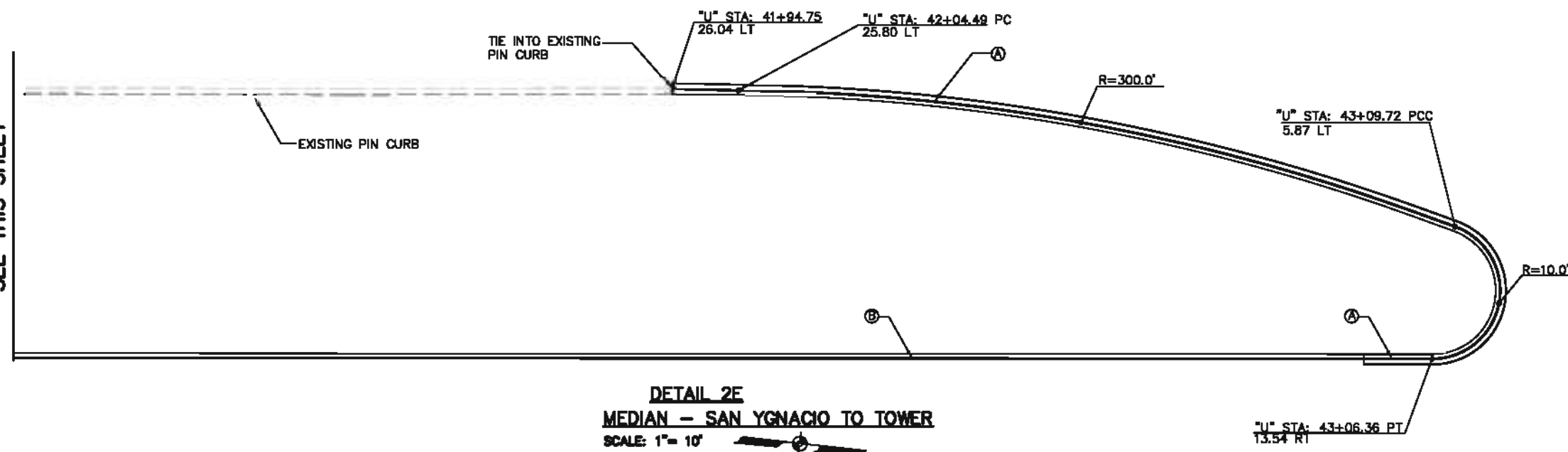
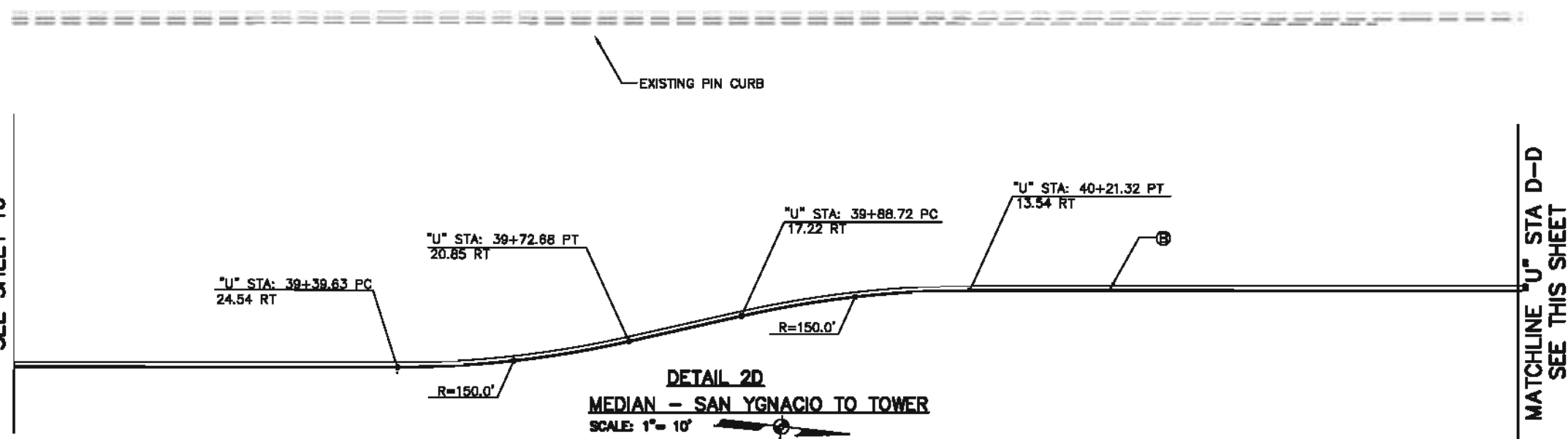
**MATCHLINE "U" STA D-D
SEE THIS SHEET**



TOWER

Design Review Committee	City Engineer Approval	Last Design Update	No./Year	No./Year			
City Project No.	7699.91	Zone Map No.	K10. L10	Sheet	17	Of	82

**MATCHLINE "U" STA D-D
SEE THIS SHEET**



KEYED NOTES:

- A. CONCRETE CURB & GUTTER
- B. ASPHALT CURB

GENERAL NOTES:

- 1. "U" STA = $\bar{C}$ UNSER ALIGNMENT
- "U2" STA = CURBLINE ALIGNMENT

[illegible]

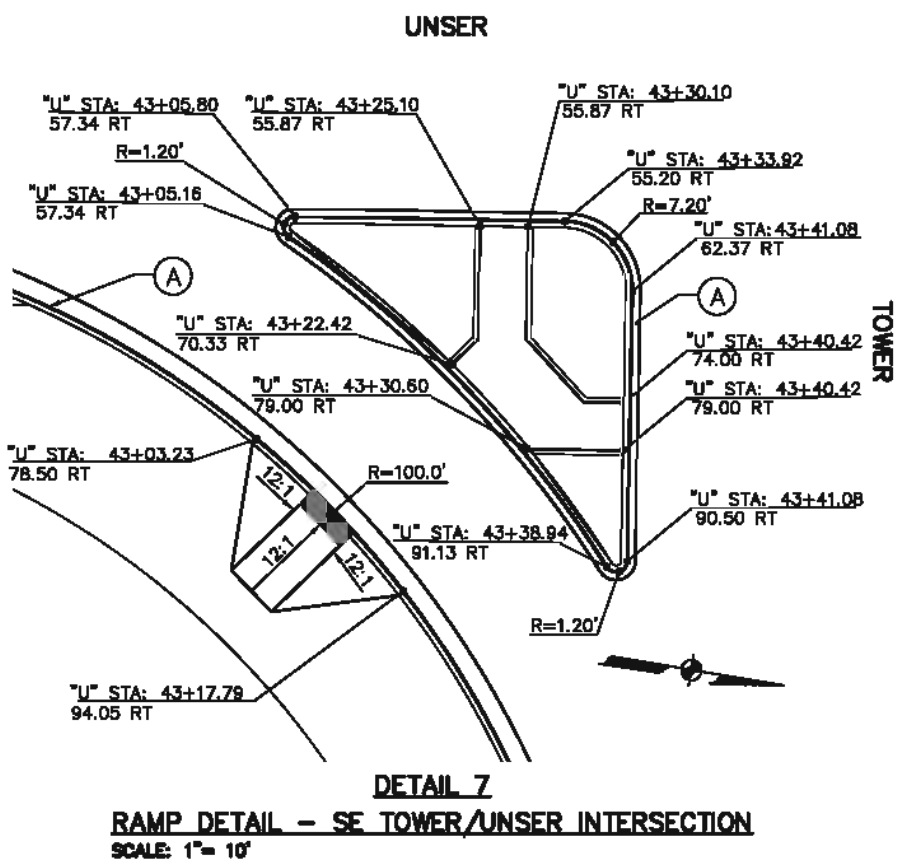
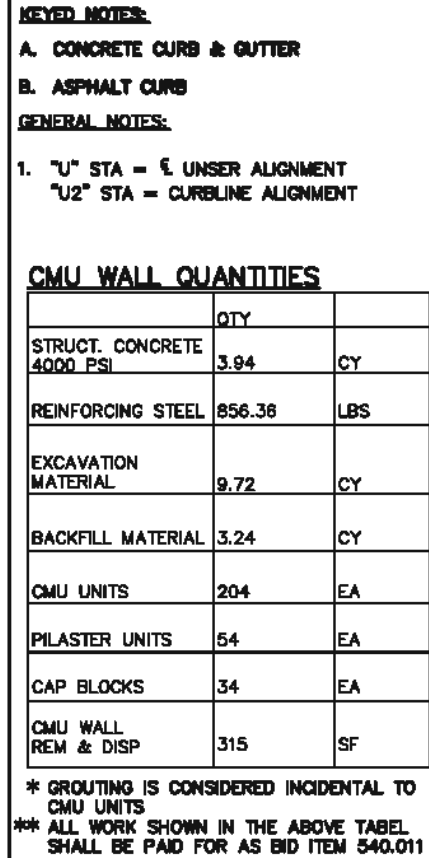
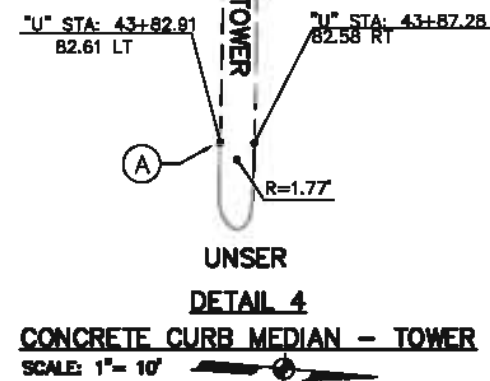
2425 LOUISIANA BLVD., NE
SUITE 1000
ATLANTA, GA 30329
PHONE (404) 525-1000
FAX (404) 525-0004

HDR
ENGINEERING INC.

ONE COMPANY
Many Solutions

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION
TITLE: UNSER BLVD. IMPROVEMENTS - SAGE TO CENTRAL
MISCELLANEOUS DETAILS

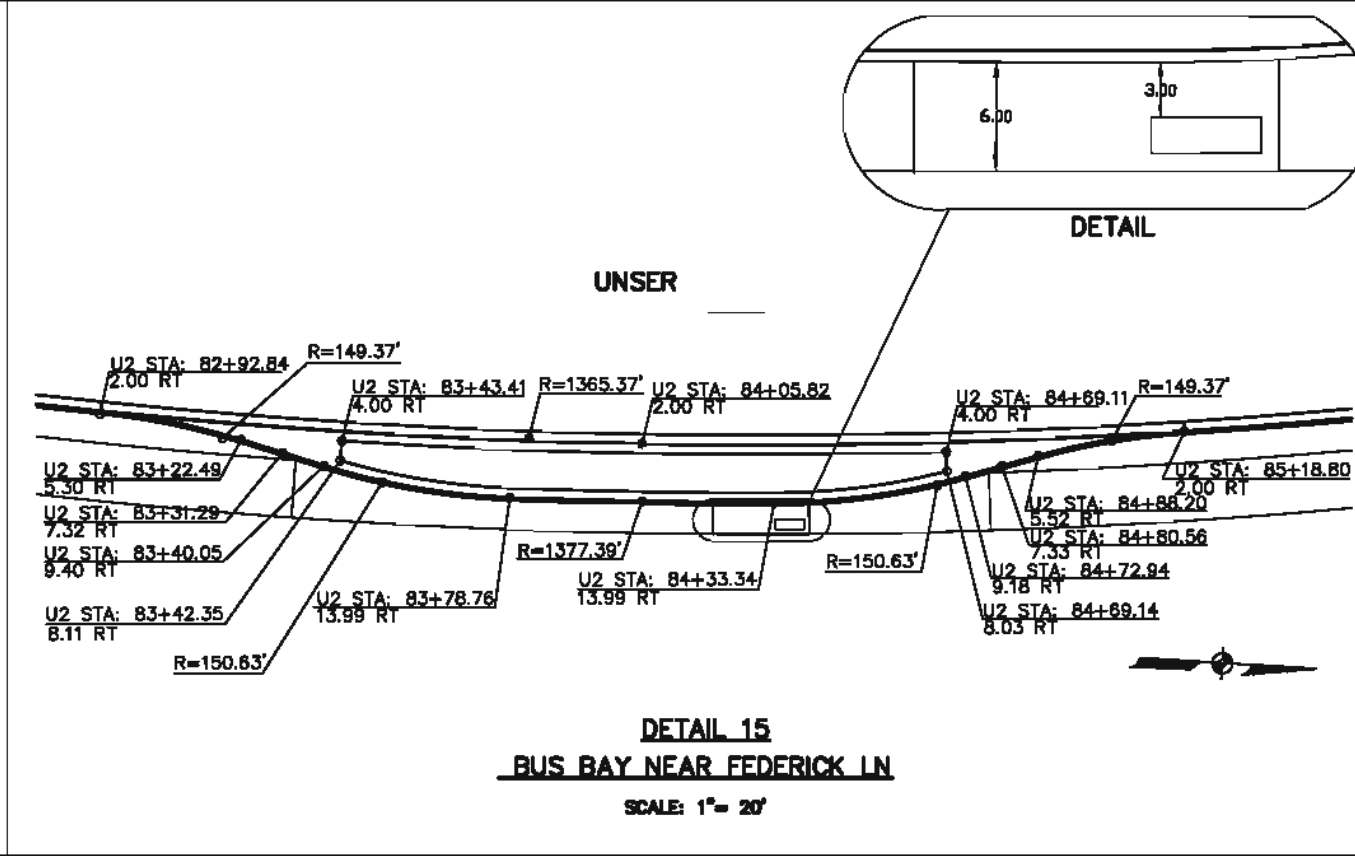
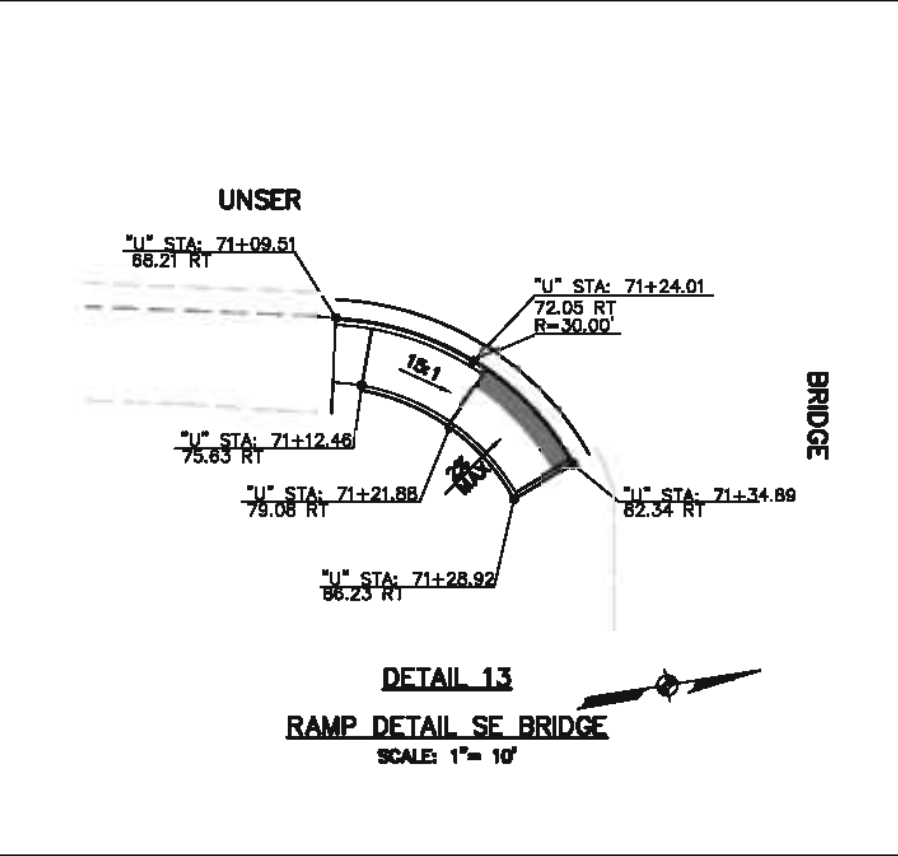
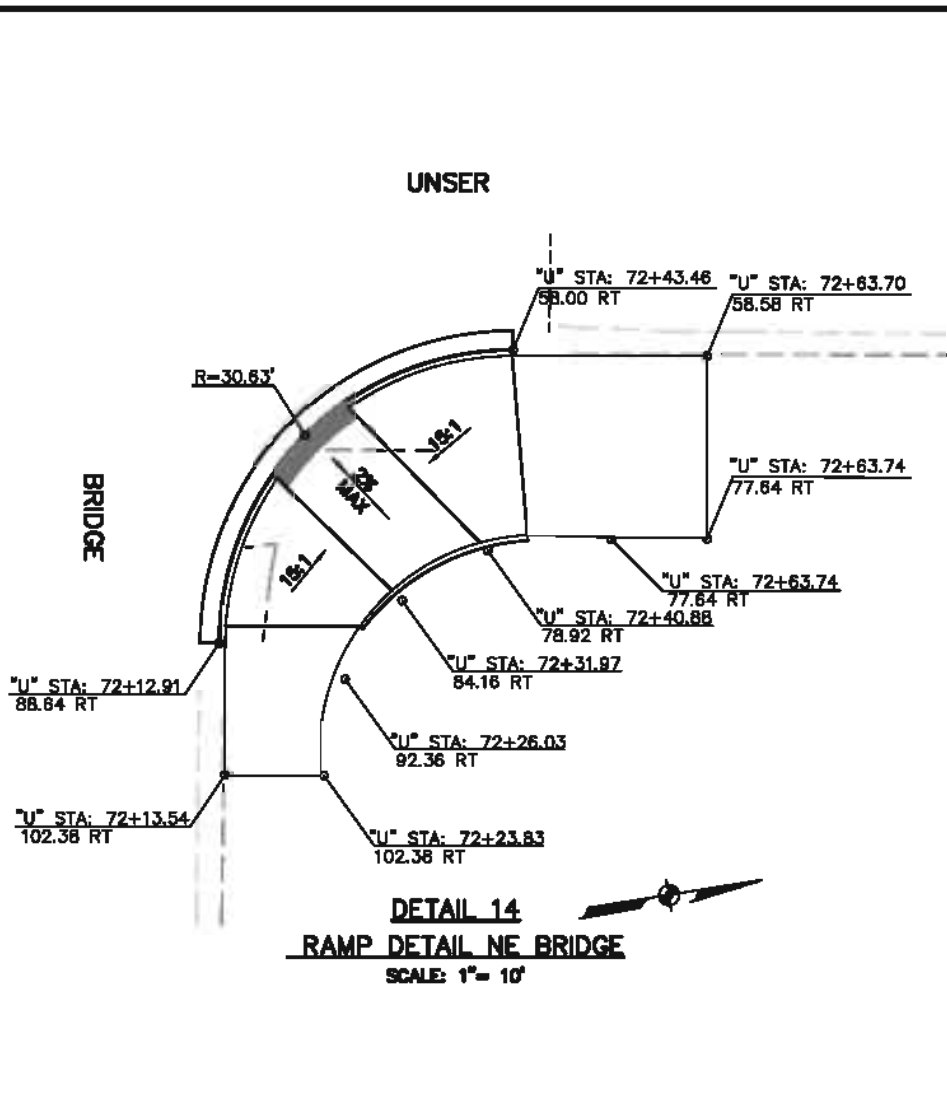
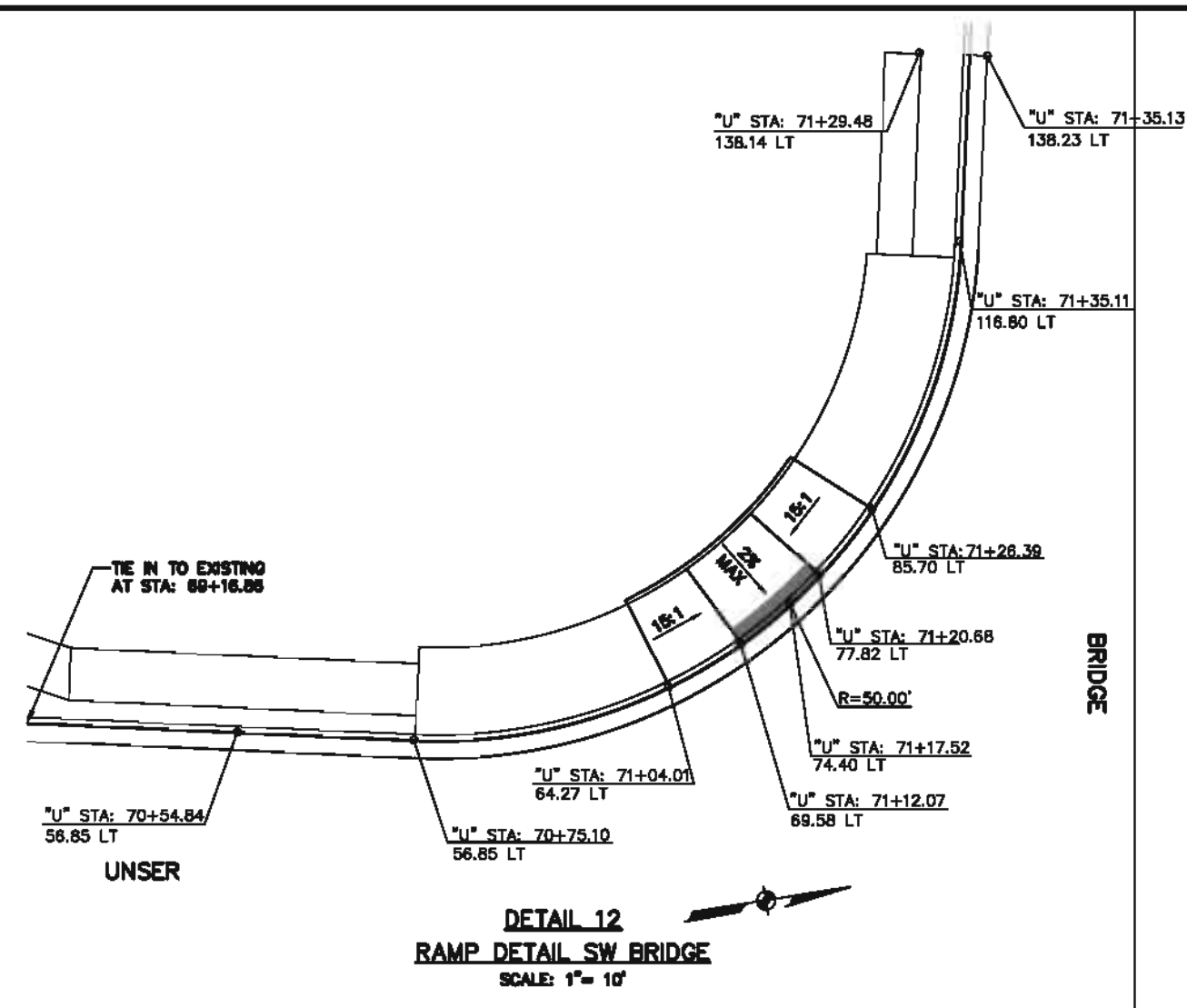
Design Review Committee	City Engineer Approval	Last Design Update	10/26/2017	10/26/2017			
City Project No.	7699.91	Zone Map No.	K10- L10	Sheet	17A	Of	82



<u>CMU WALL QUANTITIES</u>		
	QTY	
STRUCT. CONCRETE 4000 PSI	3.94	CY
REINFORCING STEEL	856.38	LBS
EXCAVATION MATERIAL	9.72	CY
BACKFILL MATERIAL	3.24	CY
CMU UNITS	204	EA
PILASTER UNITS	54	EA
CAP BLOCKS	34	EA
CMU WALL REM & DISP	315	SF

[illegible]

Drawn: Jan 18, 2007 - 10:35am
Drawing Name: C:\150045 CMA DRAMAGE Detail\SW AND Street\ALBUQUERQUE\2A Detail Sheet\769991\DWG.DWG



KEYED NOTES:

A. CONCRETE CURB & GUTTER
B. ASPHALT CURB

GENERAL NOTES:

1. "U" STA = ξ UNSER ALIGNMENT
"U2" STA = CURBLINE ALIGNMENT

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	BY	DATE	CONTRACTOR	DATE 10/08	DATE 10/08
			ACS 3/4" aluminum cap, stamped		
			"10-L10", set flush on top of		
			concrete curb in the Southwest		
			quadrant, Northeast nose of		
			traffic control island at the		
			Intersection of Tower Road SW,		
			and Unser Boulevard SW, Second		
			Order, First Class NGY028		

ENGINEER'S SEAL

NO. DATE

REMARKS

REVISIONS

BY

DATE

DATE

DATE

CITY OF ALBUQUERQUE

MUNICIPAL DEVELOPMENT DEPARTMENT

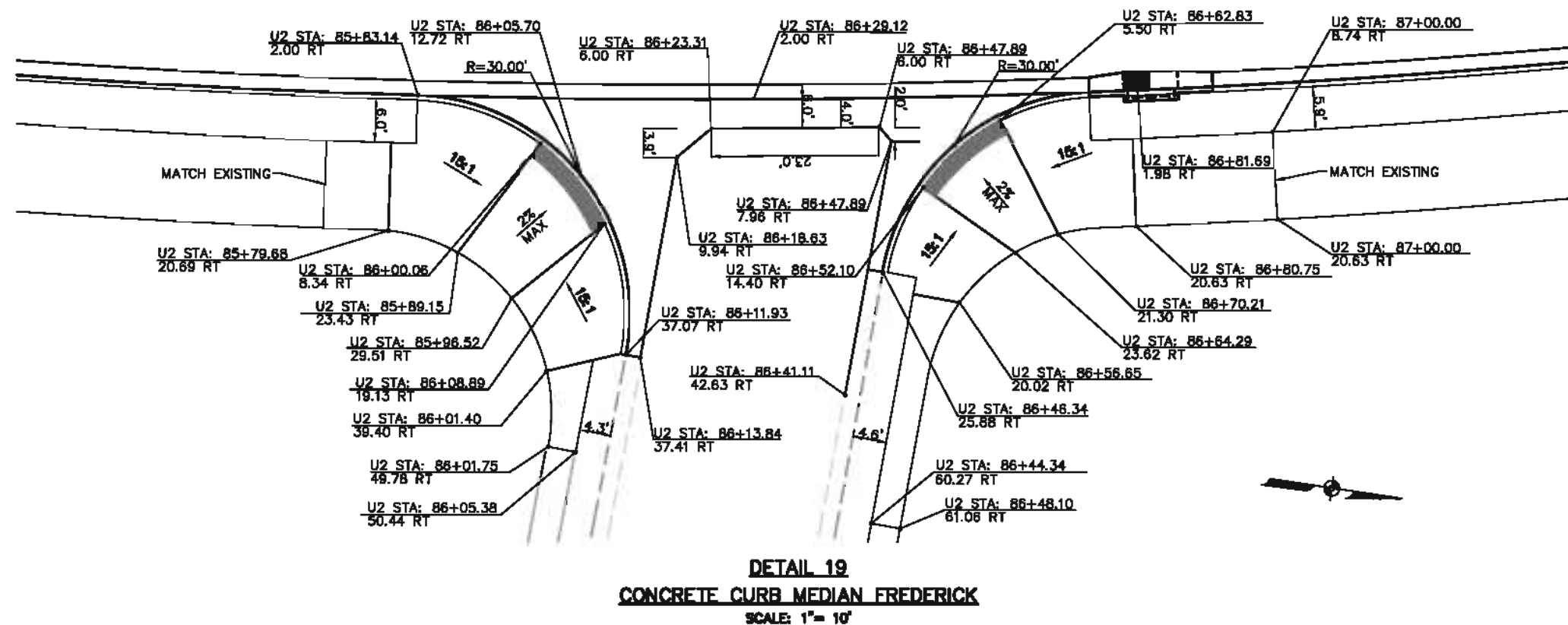
TRANSPORTATION DEVELOPMENT DIVISION

TITLE: UNSER BLVD. IMPROVEMENTS - SAGE TO CENTRAL

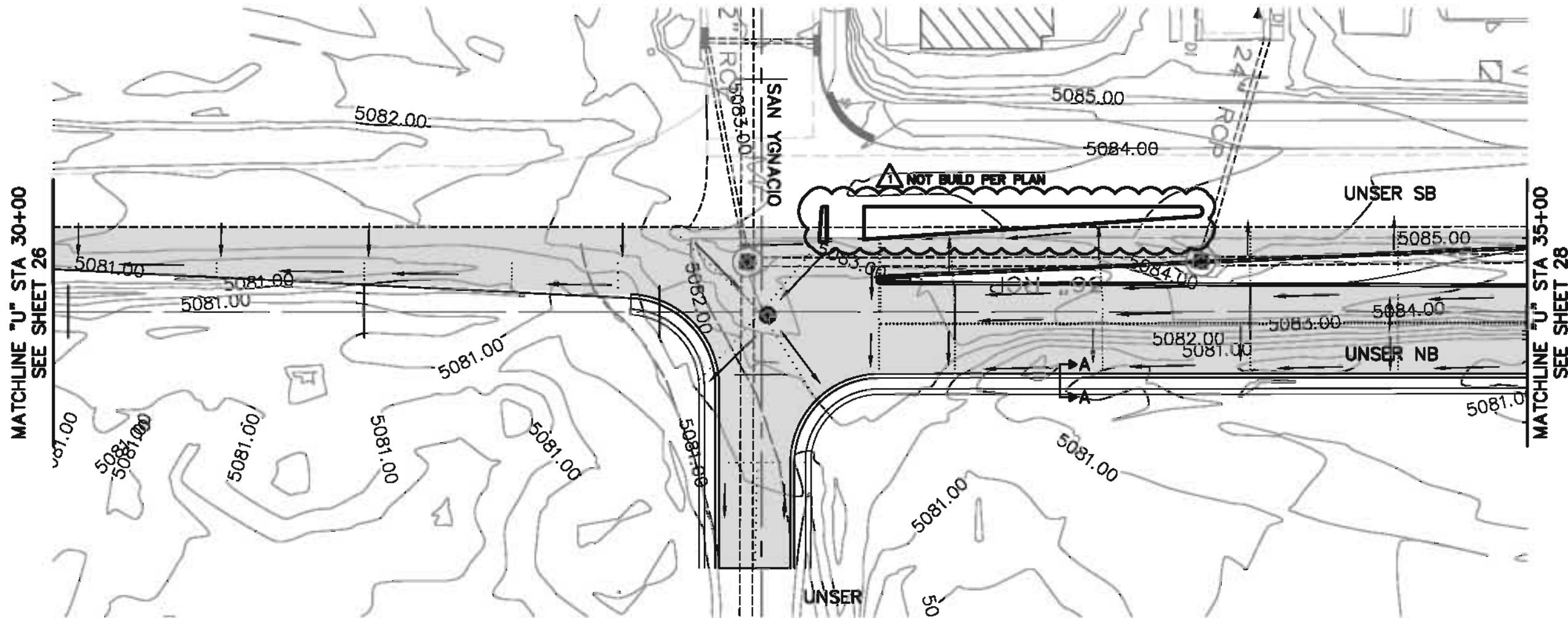
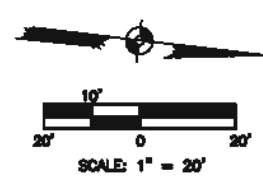
MISCELLANEOUS DETAILS

Design Review Committee City Engineer Approval

City Project No. 7699.91 Zone Map No. K10, L10 Sheet 21 of 82



Design Review Committee	City Engineer Approval	Update Design List	10/25/2018	10/25/2018
City Project No. 7699.91		Zone Map No. K10. L10	Sheet 23 of 82	



MATCHLINE "U" STA 30+00
SEE SHEET 26

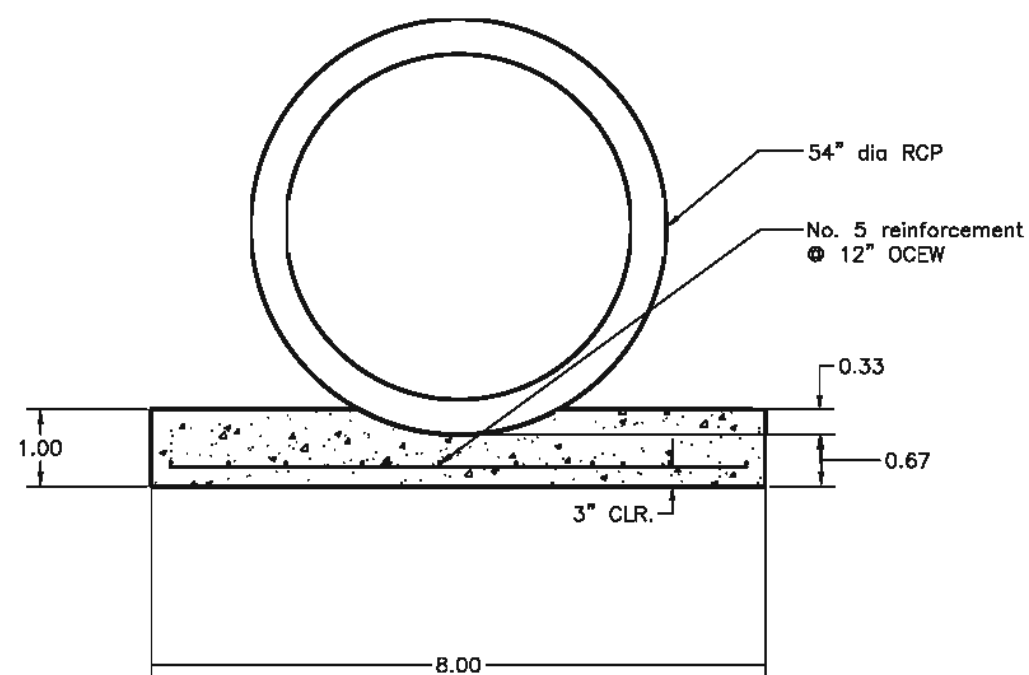
MATCHLINE "U" STA 35+00
SEE SHEET 28

SECTION A-A
SEE TYPICAL SECTION FOR PROPOSED
PAVEMENT TAPER SECTION W/BICYCLE
LANE, SHEET 15.

 HDR ONE COMPANY ENGINEERING INC. Many Solutions	
CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT TRANSPORTATION DEVELOPMENT DIVISION	
TITLE: UNSER BLVD. IMPROVEMENTS - SAGE TO CENTRAL GRADING PLAN	
Design Review Committee	City Engineer Approval
City Project No. 7699.91	Zone Map No. K10, L10
Sheet 25	Of 82

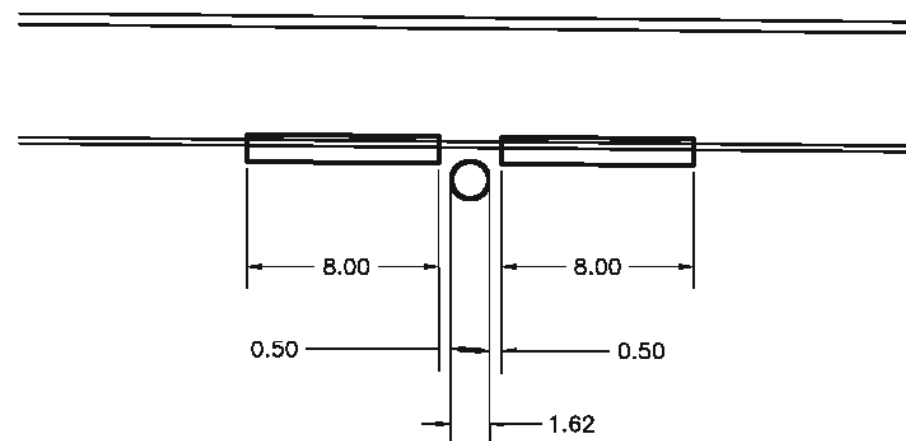
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				CONCRETE	DATE 10/08
				QUADRANT, NORTHEAST CORNER OF	DATE 10/08
				TRAFFIC CONTROL ISLAND AT THE	DATE 10/08
				INTERSECTION OF TOWER ROAD SW.	DATE 10/08
				AND UNSER BOULEVARD SW. Second	DATE 10/08
				Order, First Class NGVD29	DATE 10/08
					DATE 10/08

REVISIONS		MICRO-FILM INFORMATION	
NO.	DATE	BY	DATE
1	07/10	PER CITY OF ALBUQUERQUE	DATE 3/21/2007
		REMARKS	DATE 3/21/2007
		REVISIONS	DATE 4/05/2008
		HDR ENGINEERING INC.	
		DESIGNED BY: MCL	DATE 3/21/2007
		DRAWN BY: MCL	DATE 3/21/2007
		CHECKED BY: EJM	DATE 4/05/2008



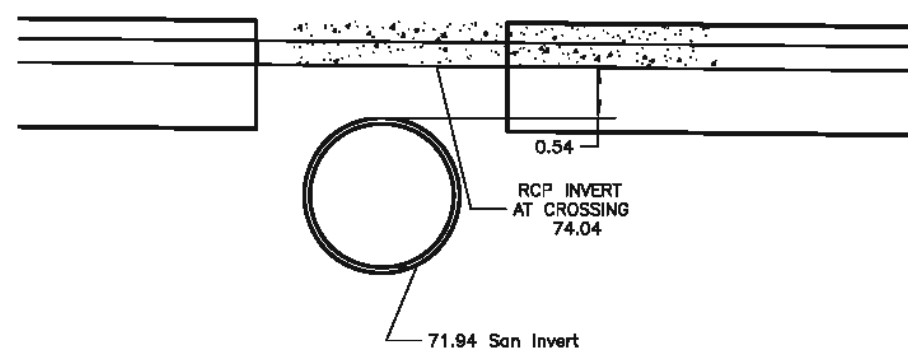
Foundation Detail

NTS



Foundation Dimension

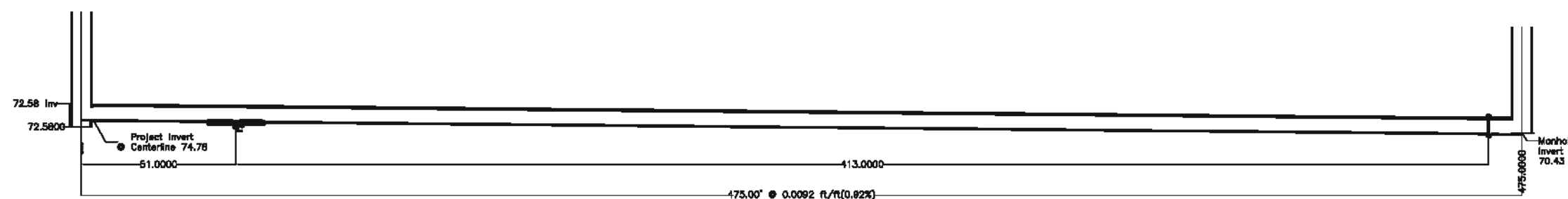
NTS



Detail of 18" Elevations

NT\$

NOTE:
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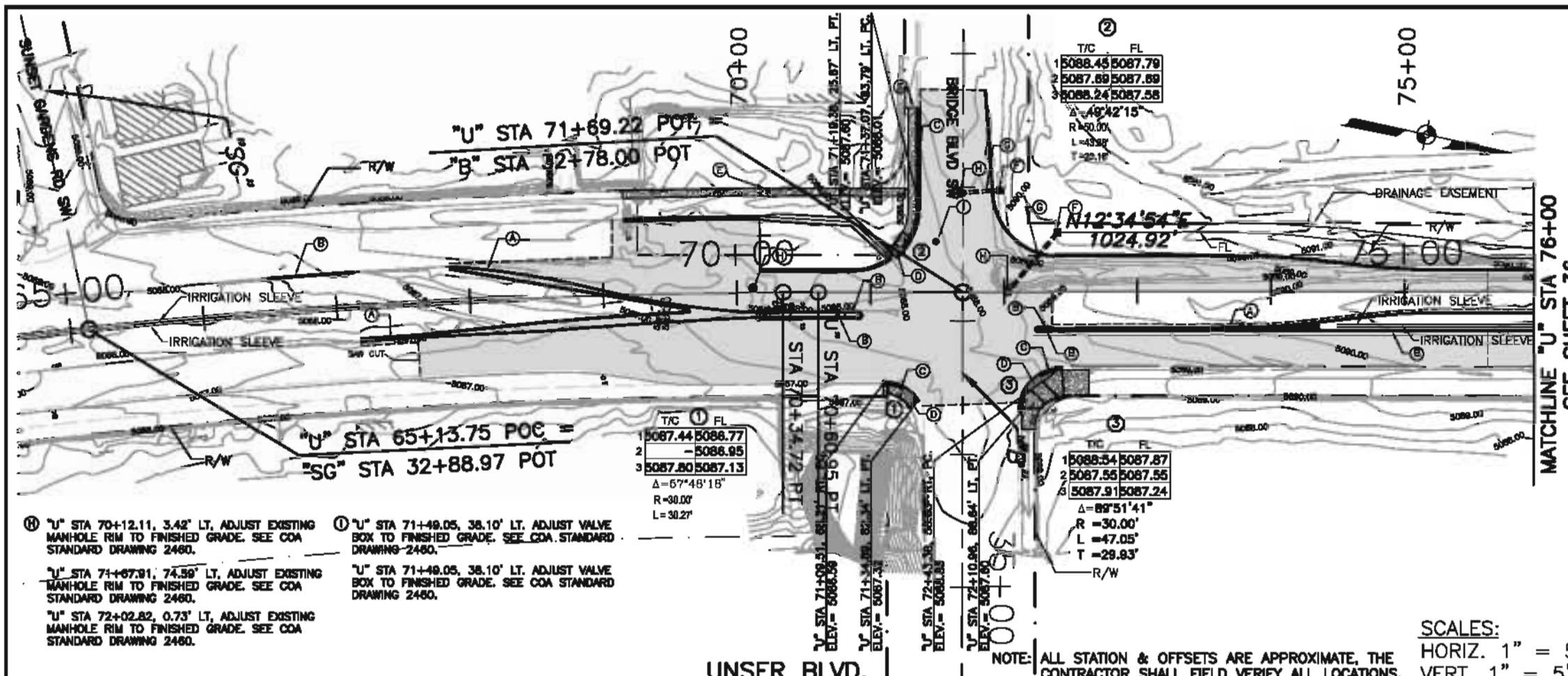


Profile of 54" RCP along Tower

NTS

[illegible]

2400 LOUISIANA BLVD., NW SUITE 100 ALBUQUERQUE, NM 87110 (505) 263-0000 FAX: (505) 263-0004		 ONE COMPANY <i>Many Solutions</i>		NO. DATE DESIGNED BY DRAWN BY	
 CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT TRANSPORTATION DEVELOPMENT DIVISION					
TITLE: UNSER BLVD. IMPROVEMENTS - SAGE TO CENTRAL TOWER 54" RCP					
Design Review Committee		City Engineer Approval		15/Jan/16 15/Jan/16	
				Last Design Update 15/Jan/16	
City Project No. 76999.91		Zone Map No. K10, L10		Sheet 34B Of 82	



- (H) "U" STA 70+12.11, 3.42' LT, ADJUST EXISTING MANHOLE RIM TO FINISHED GRADE. SEE COA STANDARD DRAWING 2460.
- "U" STA 71+67.91, 74.59' LT, ADJUST EXISTING MANHOLE RIM TO FINISHED GRADE. SEE COA STANDARD DRAWING 2460.
- "U" STA 72+02.82, 0.73' LT, ADJUST EXISTING MANHOLE RIM TO FINISHED GRADE. SEE COA STANDARD DRAWING 2460.
- (I) "U" STA 71+49.05, 38.10' LT, ADJUST VALVE BOX TO FINISHED GRADE. SEE COA STANDARD DRAWING 2460.
- "U" STA 71+49.05, 38.10' LT, ADJUST VALVE BOX TO FINISHED GRADE. SEE COA STANDARD DRAWING 2460.

T/C ① FL

1	5087.44	5088.77
2	-	5088.95
3	5087.80	5087.13

A=67°48'18"
R=30.00'
L=30.27'

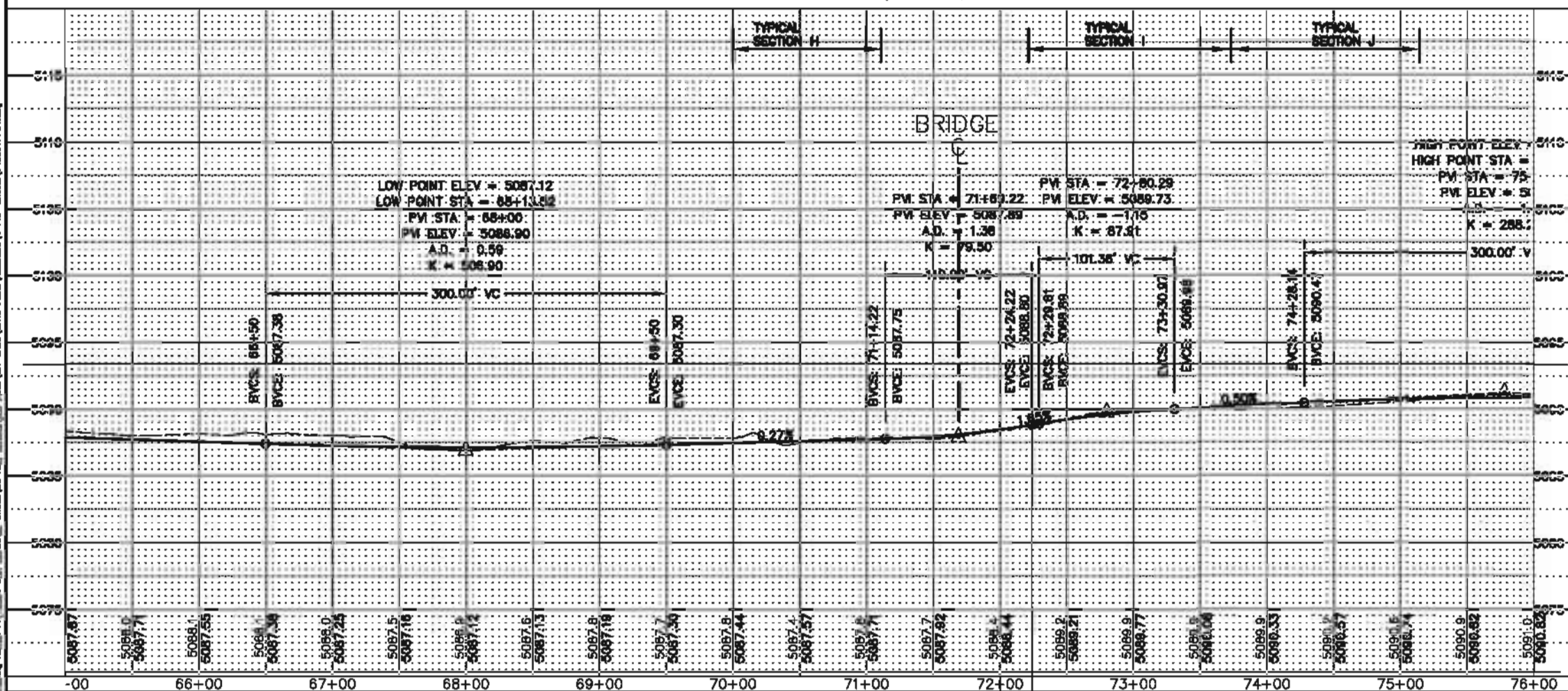
T/C FL

1	5088.54	5087.87
2	5087.55	5087.55
3	5087.91	5087.24

A=89°51'41"
R=30.00'
L=47.05'
T=29.93'

NOTE: ALL STATION & OFFSETS ARE APPROXIMATE, THE CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS.

SCALES:
HORIZ. 1" = 50'
VERT. 1" = 5'



CONSTRUCTION KEYED NOTES:

(A) "U" STA 67+16.89, 23.52' RT TO "U" STA 69+03.33, 13.45' RT, CONSTRUCT ASPHALT CONCRETE STANDARD CURBS. SEE SHEET 19 & COA STANDARD DRAWING 2415 FOR DETAILS.

"U" STA 67+16.89, 28.19' RT TO "U" STA 70+17.29, 18.89' RT, CONSTRUCT ASPHALT CONCRETE STANDARD CURBS. SEE SHEET 19 & COA STANDARD DRAWING 2415 FOR DETAILS.

"U" STA 67+68.32, 26.40' LT TO "U" STA 70+17.29, 14.97' RT, CONSTRUCT ASPHALT CONCRETE STANDARD CURBS. SEE COA STANDARD DRAWING 2415 FOR DETAILS.

"U" STA 67+68.92, 23.89' LT TO "U" STA 69+04.25, 11.12' RT, CONSTRUCT ASPHALT CONCRETE STANDARD CURBS. SEE SHEET 19 & COA STANDARD DRAWING 2415 FOR DETAILS.

"U" STA 72+35.35, 28.72' RT TO "U" STA 78+00.00, 18.17' RT, CONSTRUCT ASPHALT CONCRETE STANDARD CURBS. SEE SHEET 19 & COA STANDARD DRAWING 2415 FOR DETAILS.

(B) "U" STA 69+04.25, 25.73' LT TO "U" STA 67+14.65, 25.91' LT, CONSTRUCT CONCRETE MEDIAN CURB AND GUTTER. SEE SHEET 19 & COA STANDARD DRAWING 2415 FOR DETAILS.

"U" STA 70+17.29, 14.87' RT TO "U" STA 70+91.13, 15.00' RT, CONSTRUCT CONCRETE MEDIAN CURB AND GUTTER. SEE SHEET 19 & COA STANDARD DRAWING 2415 FOR DETAILS.

"U" STA 70+17.29, 18.89' RT TO "U" STA 70+91.13, 19.00' RT, CONSTRUCT CONCRETE MEDIAN CURB AND GUTTER. SEE SHEET 19 & COA STANDARD DRAWING 2415 FOR DETAILS.

"U" STA 72+25.38, 28.72' RT TO "U" STA 72+35.35, 28.72' RT, CONSTRUCT CONCRETE MEDIAN CURB AND GUTTER. SEE SHEET 19 & COA STANDARD DRAWING 2415 FOR DETAILS.

"U" STA 72+25.38, 29.05' RT TO "U" STA 78+00.00, 29.05' RT, CONSTRUCT CONCRETE MEDIAN CURB AND GUTTER. SEE SHEET 19 & COA STANDARD DRAWING 2415 FOR DETAILS.

(C) "U" STA 69+18.88, 56.85' LT TO "U" STA 71+35.13, 136.23' LT, CONSTRUCT CONCRETE STANDARD CURBS AND GUTTER. SEE COA STANDARD DRAWING 2415 FOR DETAILS.

"U" STA 71+08.51, 68.21' RT TO "U" STA 71+34.88, 82.34' RT, CONSTRUCT CONCRETE STANDARD CURBS AND GUTTER. SEE COA STANDARD DRAWING 2415 FOR DETAILS.

"U" STA 71+08.51, 68.21' RT TO "U" STA 71+34.88, 82.34' RT, CONSTRUCT CONCRETE STANDARD CURBS AND GUTTER. SEE COA STANDARD DRAWING 2415 FOR DETAILS.

(D) "U" STA 71+17.82, 74.40' LT, CONSTRUCT ADA SIDEWALK RAMP. SEE SHEET 21 & COA STANDARD DRAWING 2441 FOR DETAILS.

"U" STA 71+24.01, 72.05' RT, CONSTRUCT ADA SIDEWALK RAMP. SEE SHEET 21 & COA STANDARD DRAWING 2441 FOR DETAILS.

"U" STA 71+24.01, 72.05' RT, CONSTRUCT ADA SIDEWALK RAMP. SEE SHEET 21 & COA STANDARD DRAWING 2441 FOR DETAILS.

(E) "U" STA 71+17.82, 74.40' LT, CONSTRUCT ADA SIDEWALK. SEE SHEET 21 & COA STANDARD DRAWING 2441 FOR DETAILS.

"U" STA 71+24.01, 72.05' RT, CONSTRUCT ADA SIDEWALK. SEE SHEET 21 & COA STANDARD DRAWING 2441 FOR DETAILS.

ENGINEER'S SEAL

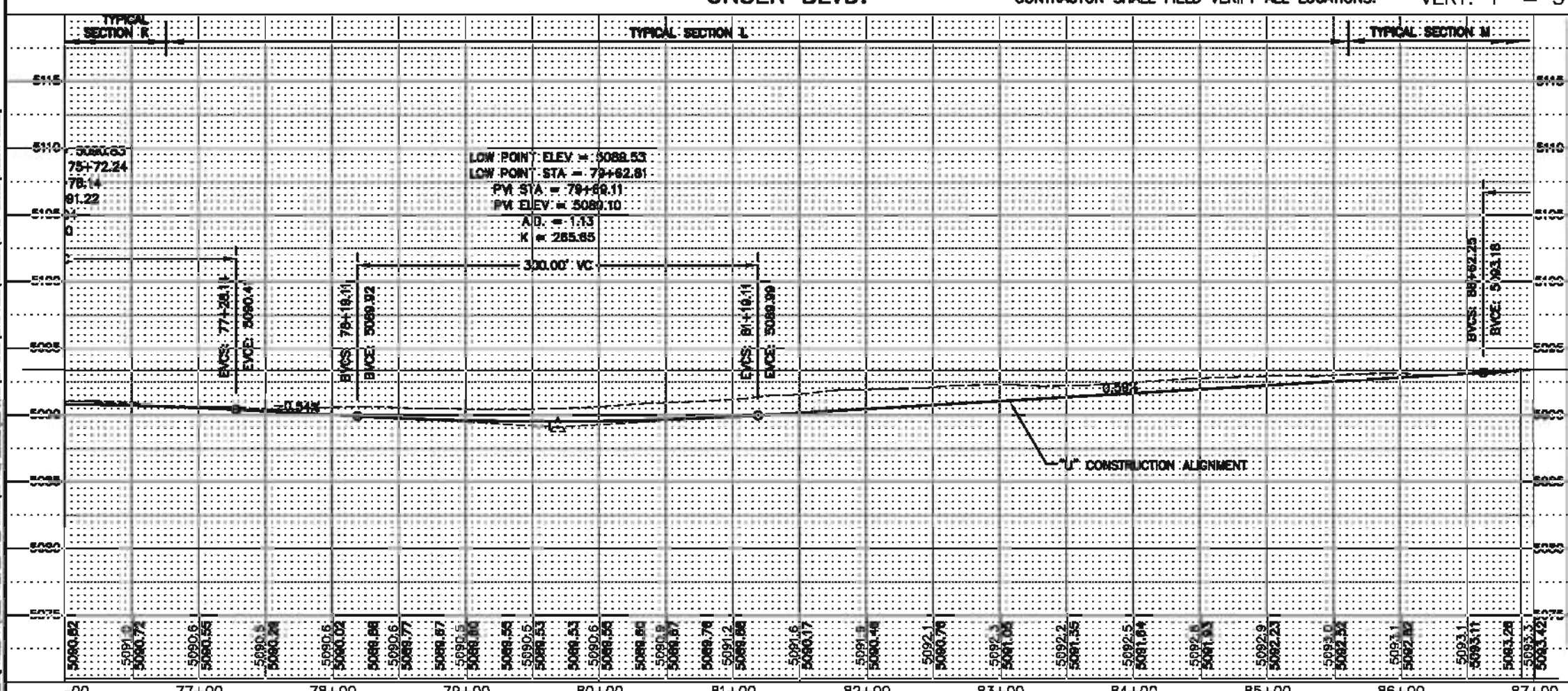
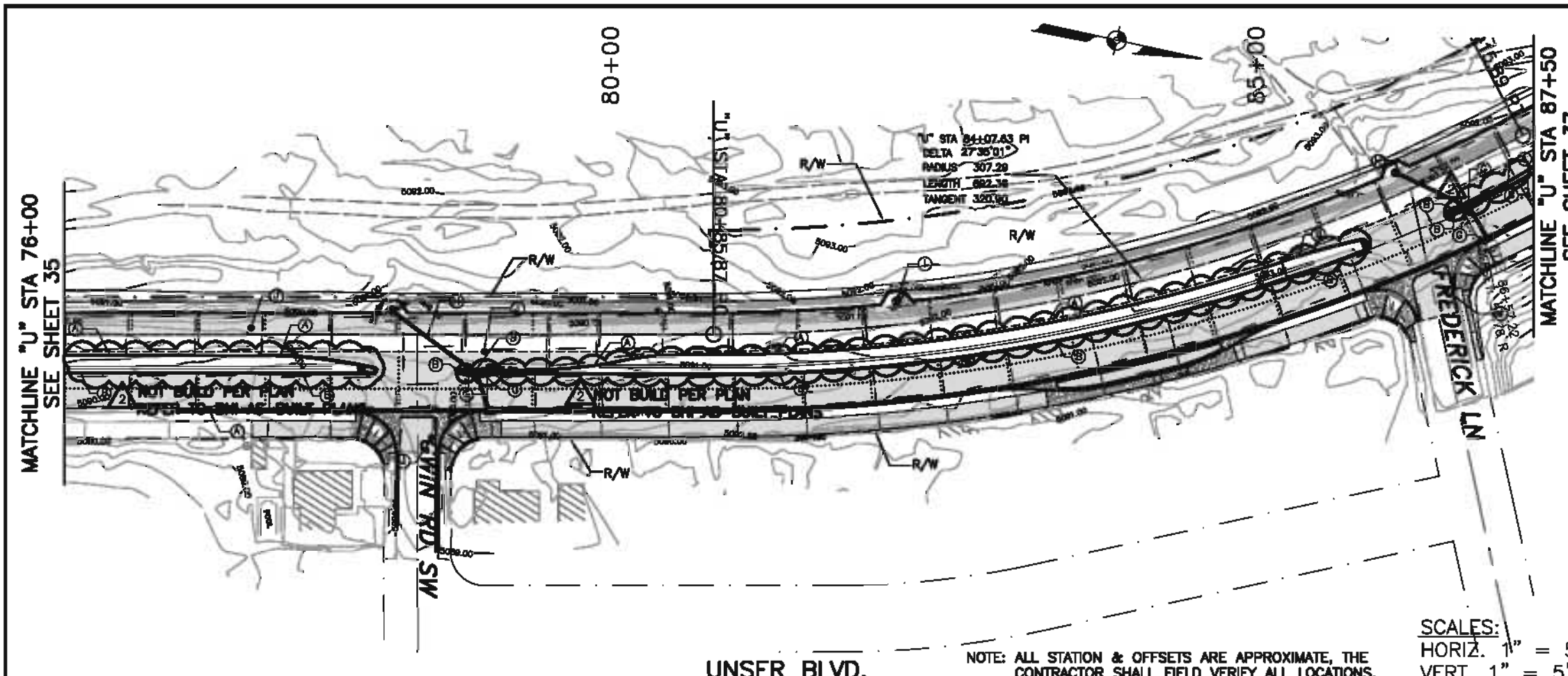
REVISIONS

NO.	DATE	REVISIONS	BY
1	3/21/2007		
2	3/21/2007		
3	4/05/2008		

HR ONE COMPANY
Engineering Inc.
City of Albuquerque
Municipal Development Department
Transportation Development Division
TITLE: UNSER BLVD. IMPROVEMENTS - SAGE TO CENTRAL
PLAN & PROFILE

Design Review Committee City Engineer Approval

City Project No. 7699.91 Zone Map No. K10, L10 Sheet 35 of 82



CONSTRUCTION KEYED NOTES:

① "U" STA 76+00, 18.17' RT TO "U" STA 77+44.81, 18.72' RT, CONSTRUCT ASPHALT CONCRETE STANDARD CURB. SEE SHEET 20 & COA STANDARD DRAWING 2415 FOR DETAILS.

"U" STA 76+28.37, 28.72' RT TO "U" STA 85+13.87, 18.72' RT, CONSTRUCT ASPHALT CONCRETE STANDARD CURB. SEE SHEET 20 & COA STANDARD DRAWING 2415 FOR DETAILS.

"U" STA 86+75.15, 28.55' RT TO "U" STA 87+80.00, 30.35' RT, CONSTRUCT ASPHALT CONCRETE STANDARD CURB. SEE SHEET 20 & COA STANDARD DRAWING 2415 FOR DETAILS.

② "U" STA 76+00, 30.05' RT TO "U" STA 76+31.11, 28.05' RT, CONSTRUCT CONCRETE MEDIAN CURB AND GUTTER. SEE COA STANDARD DRAWING 2415 FOR DETAILS.

"U" STA 76+36.27, 28.72' RT TO "U" STA 76+28.37, 28.72' RT, CONSTRUCT CONCRETE MEDIAN CURB AND GUTTER. SEE COA STANDARD DRAWING 2415 FOR DETAILS.

"U" STA 76+36.27, 28.05' RT TO "U" STA 85+73.81, 28.05' RT, CONSTRUCT CONCRETE MEDIAN CURB AND GUTTER. SEE COA STANDARD DRAWING 2415 FOR DETAILS.

"U" STA 85+13.87, 15.72' RT TO "U" STA 86+74.22, 20.85' RT, CONSTRUCT CONCRETE MEDIAN CURB AND GUTTER. SEE COA STANDARD DRAWING 2415 FOR DETAILS.

"U" STA 86+40.87, 28.74' RT TO "U" STA 85+75.15, 28.05' RT, CONSTRUCT CONCRETE MEDIAN CURB AND GUTTER. SEE COA STANDARD DRAWING 2415 FOR DETAILS.

"U" STA 86+40.88, 28.05' RT TO "U" STA 86+43.48, 28.05' RT, CONSTRUCT CONCRETE MEDIAN CURB AND GUTTER. SEE COA STANDARD DRAWING 2415 FOR DETAILS.

"U" STA 86+43.48, 30.05' RT TO "U" STA 87+00, 24.40' RT, CONSTRUCT CONCRETE MEDIAN CURB AND GUTTER. SEE COA STANDARD DRAWING 2415 FOR DETAILS.

③ "U" STA 76+08.74, 28.15' RT, CONSTRUCT CONCRETE STORM INLET AND GRATE TYPE "A" SEE COA STANDARD DRAWINGS 2201 AND 2202 FOR DETAILS. SEE SHEET 02 FOR STRUCTURE SECTION.

"U" STA 76+17.59, 30.00' RT, CONSTRUCT CONCRETE STORM INLET AND GRATE TYPE "A" SEE COA STANDARD DRAWINGS 2201 AND 2202 FOR DETAILS. SEE SHEET 02 FOR STRUCTURE SECTION.

"U" STA 86+08.84, 28.17' RT, CONSTRUCT CONCRETE STORM INLET AND GRATE TYPE "A" SEE COA STANDARD DRAWINGS 2201 AND 2202 FOR DETAILS. SEE SHEET 02 FOR STRUCTURE SECTION.

"U" STA 86+08.14, 30.00' RT, CONSTRUCT CONCRETE STORM INLET AND GRATE TYPE "A" SEE COA STANDARD DRAWINGS 2201 AND 2202 FOR DETAILS. SEE SHEET 02 FOR STRUCTURE SECTION.

④ "U" STA 76+44.13, 18.15' LT, INSTALL NEW 18" RCP TO EXISTING EXISTING MANHOLE. SEE SHEET 02 & COA STANDARD DRAWINGS 2480 FOR DETAILS.

"U" STA 86+17.23, 15.83' LT, INSTALL NEW 18" RCP TO EXISTING EXISTING MANHOLE. SEE SHEET 02 & COA STANDARD DRAWINGS 2480 FOR DETAILS.

⑤ "U" STA 82+24.84, 17.86' LT, ADJUST EXISTING MANHOLE RIM TO FINISHED GRADE. SEE COA STANDARD DRAWING 2480.

⑥ "U" STA 77+39.47, 4.81' LT, ADJUST VALVE BOX TO FINISHED GRADE. SEE COA STANDARD DRAWING 2480.

"U" STA 78+74.25, 78.80' RT, ADJUST VALVE BOX TO FINISHED GRADE. SEE COA STANDARD DRAWING 2480.

"U" STA 79+14.22, 12.89' RT, ADJUST VALVE BOX TO FINISHED GRADE. SEE COA STANDARD DRAWING 2480.

"U" STA 86+17.48, 79.00' RT, ADJUST VALVE BOX TO FINISHED GRADE. SEE COA STANDARD DRAWING 2480.

AS BUILT INFORMATION

CONTRACTOR	DATE 12/08
HR	

BENCH MARKS

MARK	DATE 12/08
10-L10, set flush on top of concrete curb in the Southwest quadrant, Northeast nose of traffic control island at the intersection of Tower Road SW and Unser Boulevard SW. Second Order, First Class NGVD29	

ENGINEER'S SEAL

NO.	DATE	BY
2	07/10	PER COA DMD (JCS)

REVISIONS

NO.	DATE	REMARKS
1	07/10	PER COA DMD (JCS)

DESIGNED BY: RLL
DRAWN BY: RLL
CHECKED BY: E.H.

DATE: 3/21/2007
DATE: 3/21/2007
DATE: 4/05/2008

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION

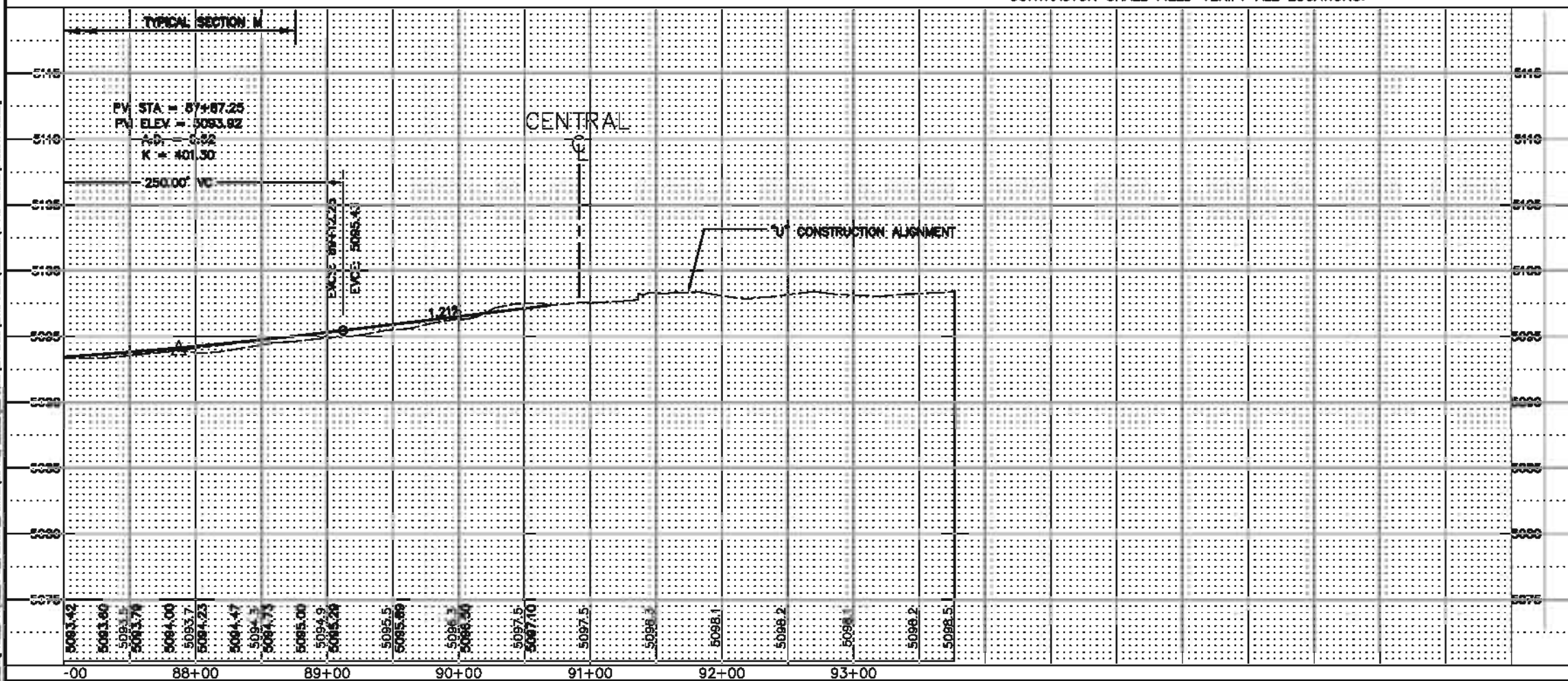
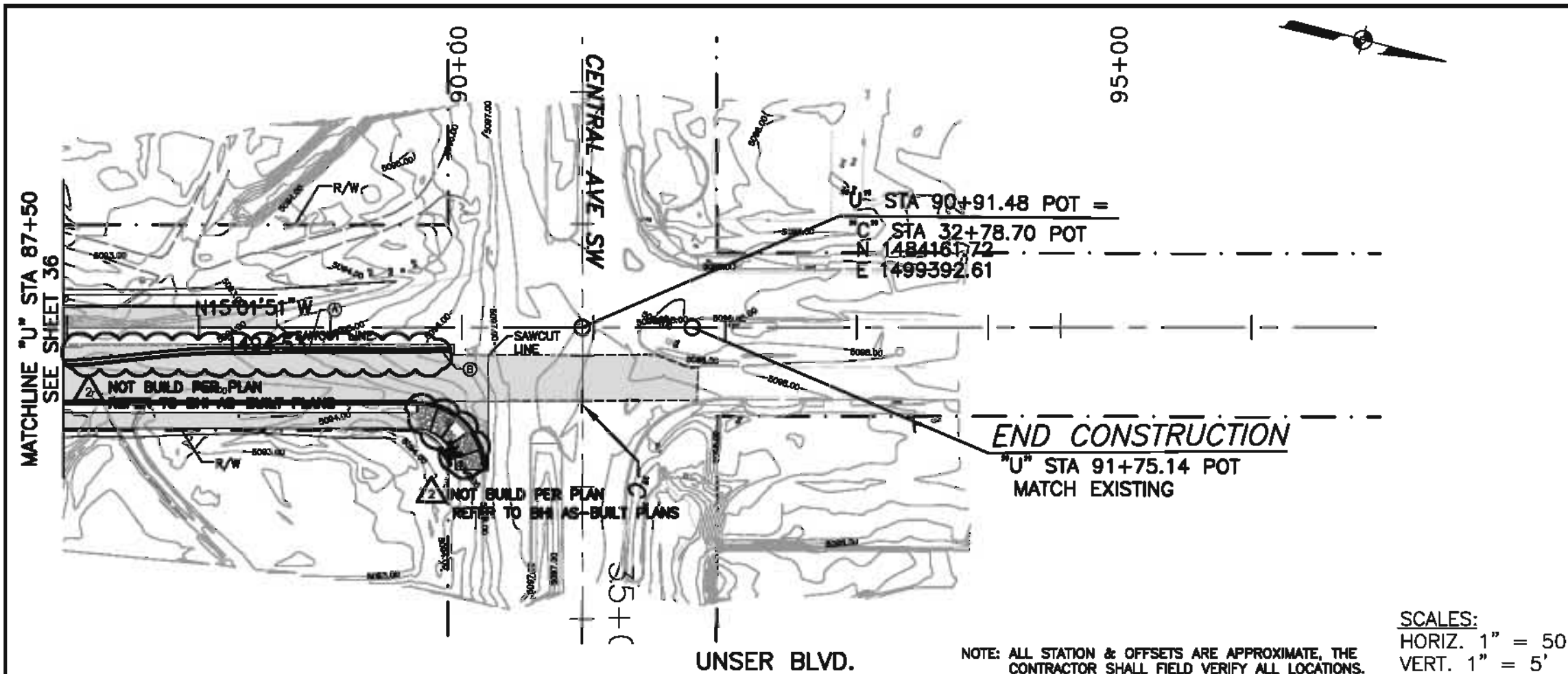
TITLE: UNSER BLVD. IMPROVEMENTS - SAGE TO CENTRAL

PLAN & PROFILE

Design Review Committee City Engineer Approval

City Project No. 7699.91 **Zone Map No.** K10, L10 **Sheet** 36 **Of** 82

Drawn: J. H. 2011 - 10/10/11
Drawing Name: P:\Users\J. H. 2011\Drawings\Unser Blvd. Improvements - Sage to Central\Unser Blvd. Improvements - Sage to Central.dwg
Title: UNSER BLVD. IMPROVEMENTS - SAGE TO CENTRAL
Plan & Profile
Scale: 1" = 50' (Horizontal), 1" = 5' (Vertical)
Author: J. H. 2011
Date: 10/10/11
Project: 7699.91
Sheet: 36 of 82



CONSTRUCTION KEYED NOTES:

① "U" STA 87+50, 20.35' RT TO "U" STA 89+80.14, 15.81' RT, CONSTRUCT ASPHALT CONCRETE STANDARD CURB. SEE SHEET 22 & COA STANDARD DRAWING 2415 FOR DETAILS.

② "U" STA 87+50.00, 24.40' RT TO "U" STA 89+80.14, 15.81' RT, CONSTRUCT CONCRETE MEDIAN CURB AND GUTTER. SEE SHEET 22 & COA STANDARD DRAWING 2415 FOR DETAILS.

"U" STA 89+80.14, 15.81' RT TO "U" STA 89+80.14, 15.81' RT, CONSTRUCT CONCRETE MEDIAN CURB AND GUTTER. SEE SHEET 22 & COA STANDARD DRAWING 2415 FOR DETAILS.

③ "U" STA 82+24.84, 17.66' LT, ADJUST EXISTING MANHOLE RIM TO FINISHED GRADE. SEE COA STANDARD DRAWING 2480.

④ "U" STA 77+39.47, 4.81' LT, ADJUST VALVE BOX TO FINISHED GRADE. SEE COA STANDARD DRAWING 2480.

"U" STA 78+74.25, 78.90' RT, ADJUST VALVE BOX TO FINISHED GRADE. SEE COA STANDARD DRAWING 2480.

"U" STA 79+14.22, 12.89' RT, ADJUST VALVE BOX TO FINISHED GRADE. SEE COA STANDARD DRAWING 2480.

"U" STA 86+17.48, 79.00' RT, ADJUST VALVE BOX TO FINISHED GRADE. SEE COA STANDARD DRAWING 2480.

⑤ "U" STA 89+88.01, 88.64' RT FIRE HYDRANT "U2" STA 90+12.99 30.84 SEE COA STANDARD DRAWING 2501 FOR DETAILS.

SCALES:
HORIZ. 1" = 50'
VERT. 1" = 5'

ENGINEER'S SEAL

AS BUILT INFORMATION

NO.	BY	DATE	REMARKS
1	PER COA DMD (JCS)	07/10	
2	REVISIONS		

REVISIONS

NO.	DATE	BY	REMARKS
1	07/10	PER COA DMD (JCS)	
2	07/10	PER COA DMD (JCS)	

DESIGNED BY: RLL
DRAWN BY: JCK
CHECKED BY: EJM

DATE: 3/21/2007
DATE: 3/21/2007
DATE: 4/05/2008

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION

TITLE: UNSER BLVD. IMPROVEMENTS - SAGE TO CENTRAL
CONSTRUCTION PLAN & PROFILE

Design Review Committee **City Engineer Approval**

City Project No. 7699.91 **Zone Map No. K10, L10** **Sheet 37 of 82**

1. "U2" STA 78+18.81, 21.28' RT TO "U" STA 78+38.11, 40.85' RT, REMOVE AND REPLACE EXISTING CMU WALL TO NEAREST PILASTER.

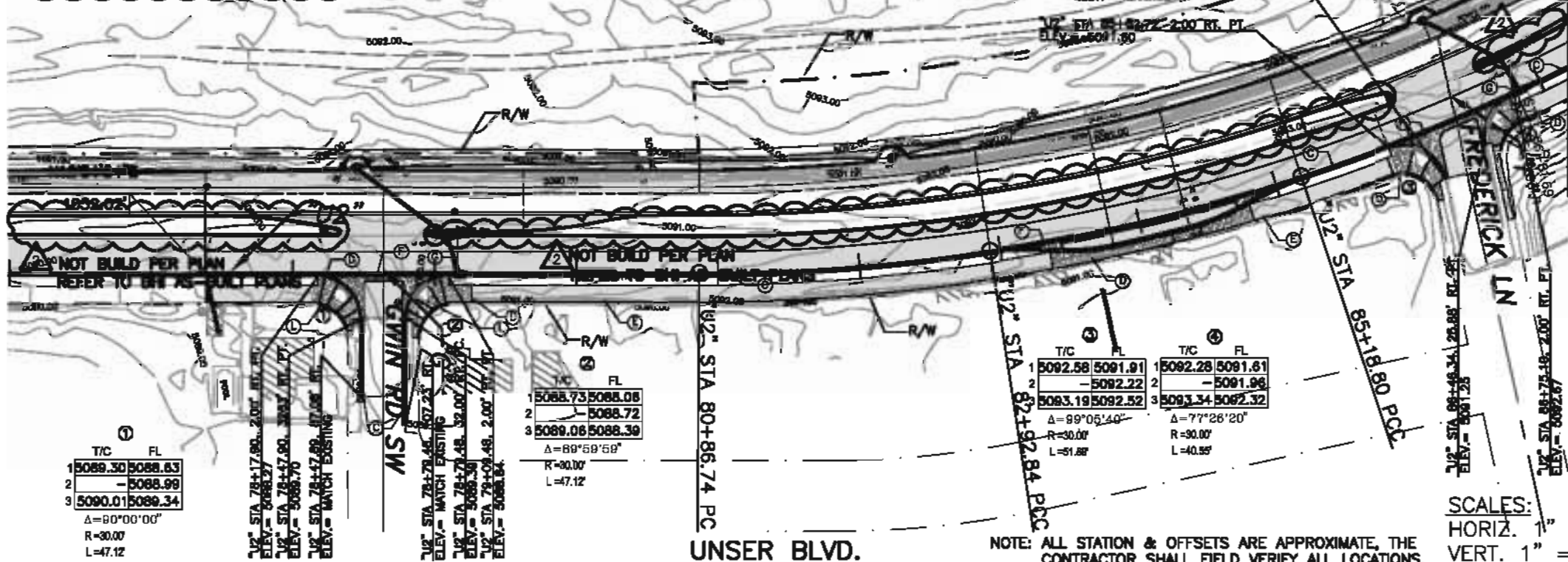
2. "U2" STA 78+44.01, 31.85' RT TO "U" STA 78+08.28, 23.44' RT, REMOVE AND REPLACE EXISTING CMU WALL TO NEAREST PILASTER.

2 NOT BUILD PER PLAN

80+00

85+00

MATCHLINE "U2" STA 87+77
SEE SHEET 39



1. T/C FL

1	5089.30	5088.63
2	-	5088.99
3	5090.01	5089.34

$\Delta = 80'00'00''$
 $R = 30.00'$
 $L = 47.12'$

2. T/C FL

1	5088.73	5088.08
2	-	5088.72
3	5089.06	5088.39

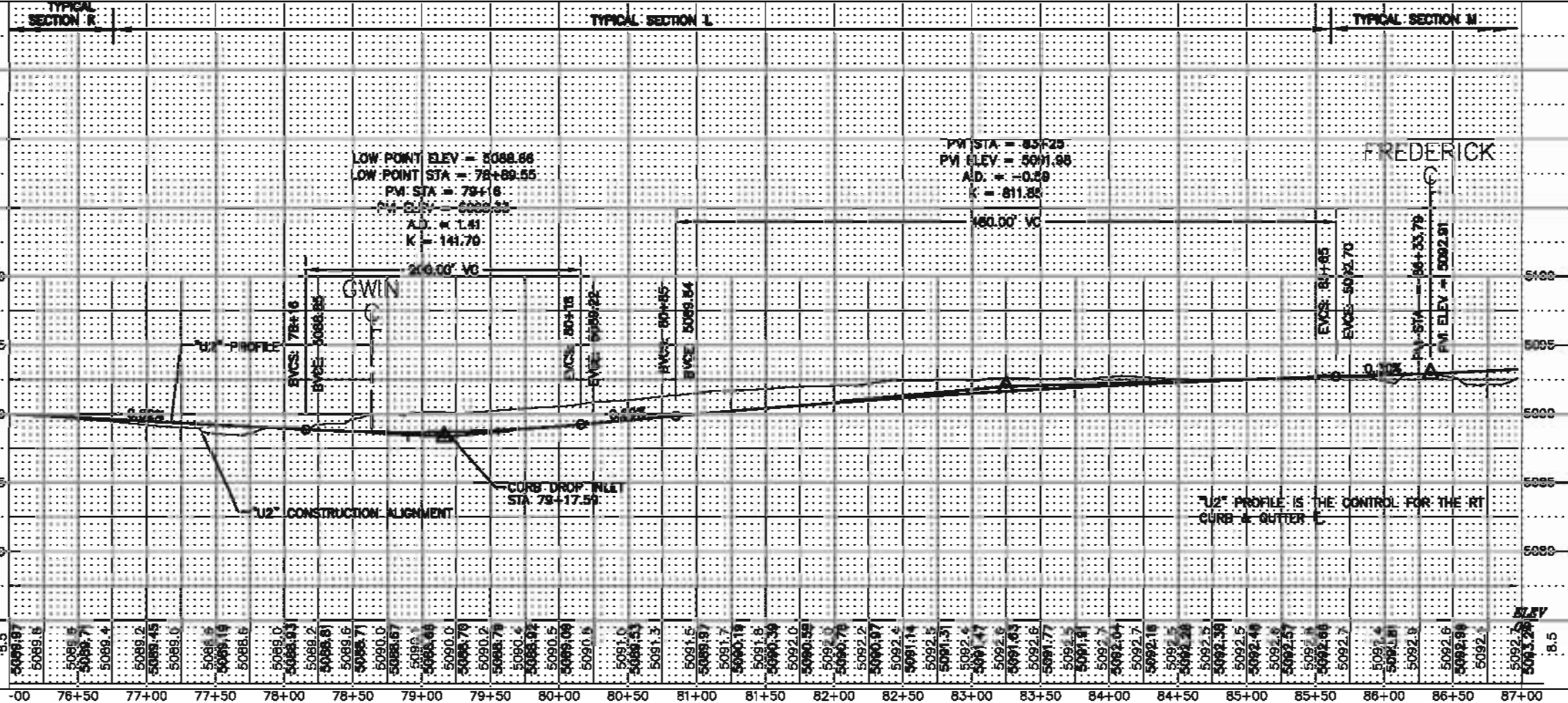
$\Delta = 89'58'59''$
 $R = 30.00'$
 $L = 47.12'$

3. T/C FL

1	5092.58	5091.91
2	-	5092.22
3	5093.19	5092.52

$\Delta = 99'05'40''$
 $R = 30.00'$
 $L = 51.85'$

SCALES:
HORIZ. 1" = 50'
VERT. 1" = 5'



CONSTRUCTION KEYED NOTES:

1. "U2" STA 78+18.81, 21.28' RT TO "U2" STA 78+17.80, 2.00' RT, CONSTRUCT CONCRETE STANDARD CURB AND GUTTER. SEE COA STANDARD DRAWING 2415 FOR DETAILS.

2. "U2" STA 78+17.80, 2.00' RT TO "U2" STA 78+17.80, 32.63' RT, CONSTRUCT CONCRETE STANDARD CURB AND GUTTER. SEE COA STANDARD DRAWING 2415 FOR DETAILS.

3. "U2" STA 78+17.80, 32.63' RT TO "U2" STA 78+47.88, 87.05' RT, CONSTRUCT CONCRETE STANDARD CURB AND GUTTER. SEE COA STANDARD DRAWING 2415 FOR DETAILS.

4. "U2" STA 78+47.88, 87.05' RT TO "U2" STA 78+47.88, 32.00' RT, CONSTRUCT CONCRETE STANDARD CURB AND GUTTER. SEE COA STANDARD DRAWING 2415 FOR DETAILS.

5. "U2" STA 78+47.88, 32.00' RT TO "U2" STA 78+08.48, 2.00' RT, CONSTRUCT CONCRETE STANDARD CURB AND GUTTER. SEE COA STANDARD DRAWING 2415 FOR DETAILS.

6. "U2" STA 78+08.48, 2.00' RT TO "U2" STA 82+82.84, 2.00' RT, CONSTRUCT CONCRETE STANDARD CURB AND GUTTER. SEE COA STANDARD DRAWING 2415 FOR DETAILS.

7. "U2" STA 82+82.84, 2.00' RT TO "U2" STA 85+83.14, 2.00' RT, CONSTRUCT CONCRETE STANDARD CURB AND GUTTER. SEE COA STANDARD DRAWING 2415 FOR DETAILS.

8. "U2" STA 85+83.14, 2.00' RT TO "U2" STA 86+11.83, 37.07' RT, CONSTRUCT CONCRETE STANDARD CURB AND GUTTER. SEE COA STANDARD DRAWING 2415 FOR DETAILS.

9. "U2" STA 86+11.83, 37.07' RT TO "U2" STA 86+75.10, 2.00' RT, CONSTRUCT CONCRETE STANDARD CURB AND GUTTER. SEE COA STANDARD DRAWING 2415 FOR DETAILS.

10. "U2" STA 86+75.10, 2.00' RT TO "U2" STA 87+77.00, 2.00' RT, CONSTRUCT CONCRETE STANDARD CURB AND GUTTER. SEE COA STANDARD DRAWING 2415 FOR DETAILS.

11. "U2" STA 78+38.11, 10.78' RT, CONSTRUCT ADA SIDEWALK RAMP, SEE SHEET 23 & COA STANDARD DRAWING 2441 FOR DETAILS.

12. "U2" STA 78+38.11, 10.78' RT, CONSTRUCT ADA SIDEWALK RAMP, SEE SHEET 23 & COA STANDARD DRAWING 2441 FOR DETAILS.

13. "U2" STA 86+05.70, 12.72' RT, CONSTRUCT ADA SIDEWALK RAMP, SEE SHEET 23 & COA STANDARD DRAWING 2441 FOR DETAILS.

14. "U2" STA 86+05.70, 12.72' RT, CONSTRUCT ADA SIDEWALK RAMP, SEE SHEET 23 & COA STANDARD DRAWING 2441 FOR DETAILS.

15. "U2" STA 78+44.01, 31.85' RT TO "U2" STA 78+42.83, 40.85' RT, CONSTRUCT 4" PC CONCRETE SIDEWALK. SEE COA STANDARD DRAWING 2430 FOR DETAILS.

16. "U2" STA 78+42.83, 40.85' RT TO "U2" STA 83+34.08, 8.63' RT, CONSTRUCT 4" PC CONCRETE SIDEWALK. SEE COA STANDARD DRAWING 2430 FOR DETAILS.

17. "U2" STA 83+34.08, 8.63' RT TO "U2" STA 84+77.87, 8.63' RT, CONSTRUCT 4" PC CONCRETE SIDEWALK. SEE COA STANDARD DRAWING 2430 FOR DETAILS.

18. "U2" STA 84+77.87, 8.63' RT TO "U2" STA 85+83.08, 8.63' RT, CONSTRUCT 4" PC CONCRETE SIDEWALK. SEE COA STANDARD DRAWING 2430 FOR DETAILS.

19. "U2" STA 85+83.08, 8.63' RT TO "U2" STA 86+05.36, 80.44' RT, CONSTRUCT 4" PC CONCRETE SIDEWALK. SEE COA STANDARD DRAWING 2430 FOR DETAILS.

20. "U2" STA 86+05.36, 80.44' RT TO "U2" STA 86+40.48, 80.87' RT, CONSTRUCT 4" PC CONCRETE SIDEWALK. SEE COA STANDARD DRAWING 2430 FOR DETAILS.

21. "U2" STA 86+40.48, 80.87' RT TO "U2" STA 87+77.00, 8.63' RT, CONSTRUCT 4" PC CONCRETE SIDEWALK. SEE COA STANDARD DRAWING 2430 FOR DETAILS.

22. "U" STA 78+17.80, 2.00' RT TO "U" STA 78+08.48, 2.00' RT, CONSTRUCT COMMERCIAL DRIVE WAY & 6' VALLEY GUTTER. SEE SHEET 23 COA STANDARD DRAWINGS 2420 AND 2428 FOR DETAILS.

23. "U" STA 82+82.84, 2.00' RT TO "U" STA 85+18.80, 2.00' RT, CONSTRUCT COMMERCIAL DRIVE WAY & 6' VALLEY GUTTER. SEE SHEET 21 COA STANDARD DRAWINGS 2420 AND 2428 FOR DETAILS.

24. "U" STA 85+18.80, 2.00' RT TO "U" STA 86+75.08, 0.00' RT, CONSTRUCT COMMERCIAL DRIVE WAY & 6' VALLEY GUTTER. SEE SHEET 23 COA STANDARD DRAWINGS 2420 AND 2428 FOR DETAILS.

AS BUILT INFORMATION

CONSTRUCTION	DATE	BY
AS BUILT	DATE	BY

BENCH MARKS

CONSTRUCTION	DATE	BY
AS BUILT	DATE	BY

SURVEY INFORMATION

NO.	DATE	BY
1	DATE	BY

ENGINEER'S SEAL

DATE: 3/21/2007
DRAWN BY: JLL
CHECKED BY: JLL

REVISIONS

NO.	DATE	REVISIONS
1	DATE	REVISIONS

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION

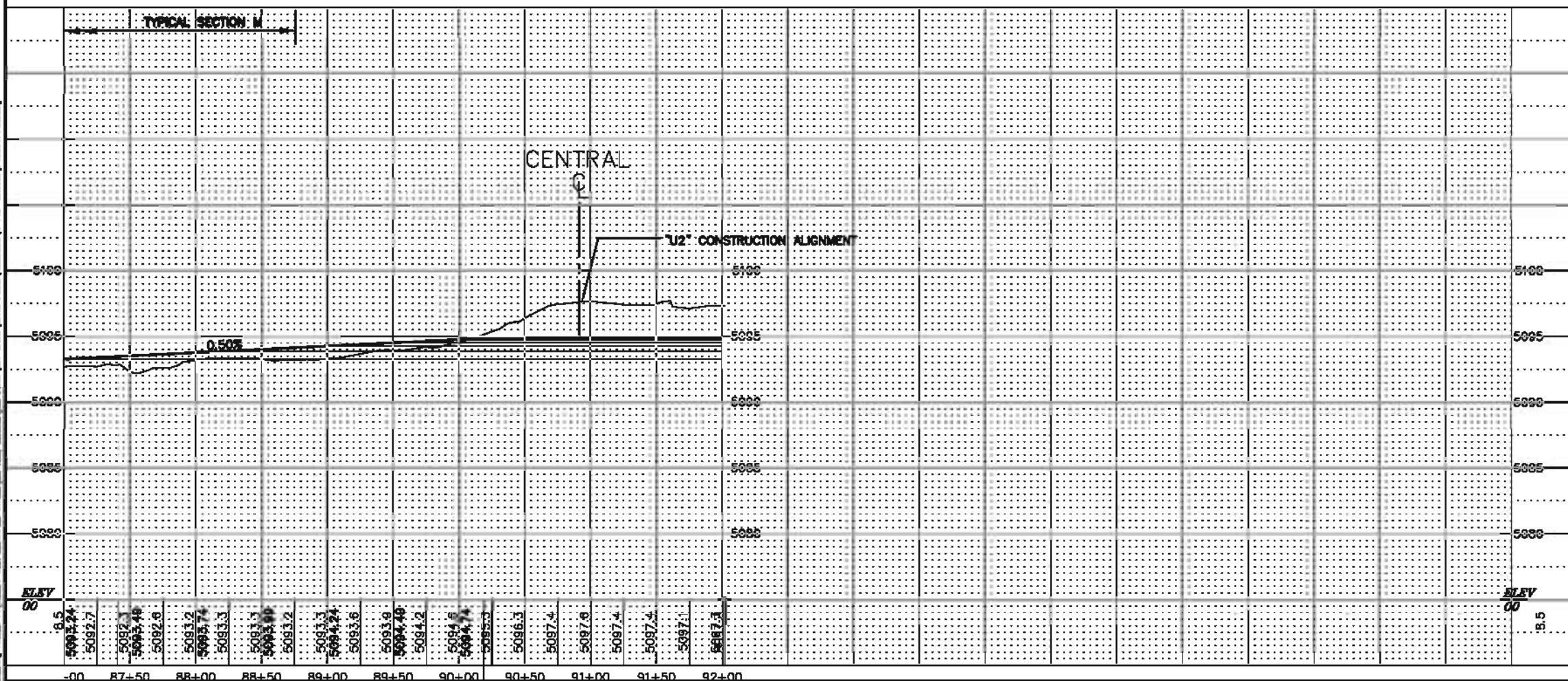
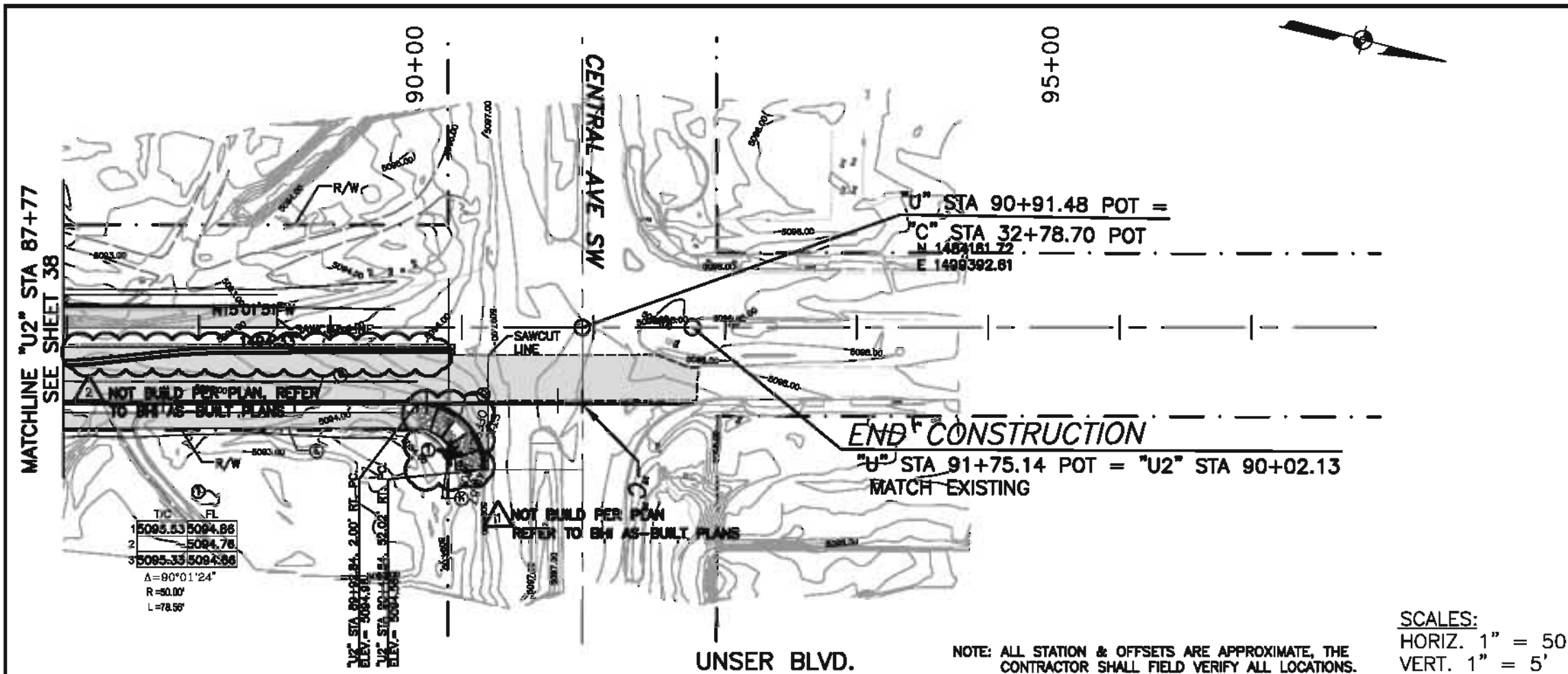
TITLE: UNSER BLVD. IMPROVEMENTS - SAGE TO CENTRAL

PLAN & PROFILE

Design Review Committee City Engineer Approved

City Project No. 7699.91 Zone Map No. K10, L10 Sheet 38 of 82

Sheet No. 39 of 82
Drawing Name: P:\10884\01\10884.dwg
Date: 03/21/2007
Author: J. L. ...
Title: UNSER BLVD. IMPROVEMENTS - SAGE TO CENTRAL
City Project No. 7699.91
Zone Map No. K10, L10
Sheet 39 of 82



CONSTRUCTION KEYED NOTES:

- ③ "U2" STA 87+77.00, 8.63' RT TO "U2" STA 90+42.81, 52.02' RT, CONSTRUCT CONCRETE STANDARD CURB AND GUTTER. SEE COA STANDARD DRAWING 2415 FOR DETAILS.
- ④ "U2" STA 90+28.21, 18.85' RT, CONSTRUCT ADA SIDEWALK RAMP. SEE SHEET 21 & COA STANDARD DRAWING 2441 FOR DETAILS.
- ⑤ "U2" STA 87+77.00, 2.73' RT TO "U" STA 89+82.84, 8.83' RT, CONSTRUCT 4" PC CONCRETE SIDEWALK. SEE COA STANDARD DRAWING 2430 FOR DETAILS.
- ⑥ "U" STA 89+88.01, 88.84' RT FIRE HYDRANT "U2" STA 90+12.89 30.84 SEE COA STANDARD DRAWING 2501 FOR DETAILS.

AS BUILT INFORMATION

NO.	BY	DATE	CONTRACTOR	DATE 10/08	DATE 10/08	DATE 10/08	DATE 10/08	DATE 10/08	DATE 10/08
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									

ENGINEER'S SEAL

REVISIONS

NO.	DATE	REVISIONS	BY
1	07/10	PER COA DMD (JCS)	HDR
2	07/10	PER COA DMD (JCS)	HDR
3	07/10	PER COA DMD (JCS)	HDR
4	07/10	PER COA DMD (JCS)	HDR
5	07/10	PER COA DMD (JCS)	HDR
6	07/10	PER COA DMD (JCS)	HDR
7	07/10	PER COA DMD (JCS)	HDR
8	07/10	PER COA DMD (JCS)	HDR
9	07/10	PER COA DMD (JCS)	HDR
10	07/10	PER COA DMD (JCS)	HDR

DESIGNED BY: HDR
DRAWN BY: HDR
CHECKED BY: HDR

DATE: 3/21/2007
DATE: 3/21/2007
DATE: 4/05/2008

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION

TITLE: UNSER BLVD. IMPROVEMENTS - SAGE TO CENTRAL
CONSTRUCTION PLAN & PROFILE

Design Review Committee **City Engineer Approval**

City Project No. 7699.91 **Zone Map No. K10, L10** **Sheet 39 of 82**

1. LOCATIONS OF CONDUIT, FOUNDATIONS, PULL BOXES, AND CONTROL CABINETS SHOWN ON THE PLANS ARE SCHEMATIC AND SHALL BE ADJUSTED IN THE FIELD TO AVOID UTILITIES AND TO MAXIMIZE CLEAR SPACE AVAILABLE FOR PEDESTRIANS AND WHEELCHAIRS TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT. ALL SUCH EQUIPMENT SHALL BE INSTALLED WITHIN THE RIGHT OF WAY.
2. CONTRACTOR SHALL REMOVE EXISTING CONDUITS AND PULL BOXES THROUGHOUT THE PROJECT AS DIRECTED BY PROJECT MANAGER.
3. EACH TIME A ROADWAY LUMINAIRE, IS TURNED ON OR OFF THE CONTRACTOR SHALL COORDINATE WITH THE FOLLOWING REPRESENTATIVES:

PNM ELECTRIC COMPANY
CITY OF ALBUQUERQUE
4. POWER SHALL NEITHER BE TURNED ON OR OFF UNTIL RESPONSIBLE PARTIES FOR EACH LIGHTING SYSTEM HAVE BEEN NOTIFIED.
5. ROADWAY LIGHTING SYSTEM SHALL BE ACCEPTED AND MAINTAINED BY THE CITY OF ALBUQUERQUE AND PNM ELECTRIC COMPANY. THE CONTRACTOR SHALL PROVIDE PNM ELECTRIC COMPANY FIVE (5) WORKING DAYS NOTICE IN ADVANCE OF TURNING ON THE SYSTEM TO ALLOW CITY OF ALBUQUERQUE AND PNM ELECTRIC COMPANY TO INSPECT AND APPROVE THE SYSTEM BEFORE IT IS TURNED ON.
6. ALL LUMINAIRES SHALL INCLUDE PHOTO ELECTRIC CELLS.
7. ALL ROADWAY LUMINAIRES SHALL BE TYPE II, 250 WATT, HIGH PRESSURE SODIUM, FULL CUTOFF FLAT GLASS LUMINAIRES WITH INDIVIDUAL PHOTO CELLS AND BACKPLATES TO CONFORM WITH THE NEW MEXICO NIGHT SKY PROTECTION ACT. REFER TO CITY OF ALBUQUERQUE STANDARD DRAWING 2581 FOR INSTALLATION AND POLE DETAILS. FOR FOUNDATION AND MISCELLANEOUS DETAILS, REFER TO CITY OF ALBUQUERQUE STANDARD DRAWING 2580.
8. THE CONTRACTOR SHALL ARRANGE A NIGHT INSPECTION OF THE LIGHTING SYSTEM WITH THE PROJECT MANAGER, CITY OF ALBUQUERQUE AND PNM ELECTRIC COMPANY TO ENSURE COMPLIANCE WITH THE NEW MEXICO NIGHT SKY PROTECTION ACT AND PROPER LEVELING OF LUMINAIRE HEADS.
9. LIGHTING IS TO BE SERVED BY METER PEDESTAL. REFER TO CITY OF ALBUQUERQUE STANDARD DRAWING 2572 FOR DETAILS.
10. THE CONTRACTOR SHALL REMOVE EXISTING SERVICE RISERS, SERVICE POLES, CONTROL CABINETS, AND EXISTING WIRING AS REQUIRED BY PNM ELECTRIC COMPANY AND AS DIRECTED BY THE PROJECT MANAGER.
11. LIGHTING SHALL BE LOCATED AS FOLLOWS:

A. ALUMINUM LUMINAIRES (PERMANENT), PLACED DIRECTLY BEHIND CURB LINE/SHOULDER TAPER FROM SAN YGNACIO TO CENTRAL AS SHOWN IN THE LIGHTING PLANS.
12. PNM ELECTRIC COMPANY WILL ASSIST WITH IDENTIFICATION OF EXISTING CIRCUITS. CONTRACTOR SHALL BE REQUIRED TO TIE THE NEW CIRCUITS INTO EXISTING CIRCUITS. CONTRACTOR SHALL USE APPROPRIATE CAUTION WHEN INTERCEPTING EXISTING CIRCUITS.
13. LIGHTS NEAR EXISTING OVERHEAD TRANSMISSION LINES MUST MAINTAIN VERTICAL CLEARANCE AND HORIZONTAL CLEARANCE FROM THE CLOSEST PHASE CONDUCTOR. THE PNM ELECTRIC COMPANY WILL ASSIST IN MEASUREMENT AND DETERMINATION OF CLEARANCE.

14. LIGHTING WILL BE COMPLETED WITH CONSTRUCTION PHASING, NEW LIGHTING SHALL BE OPERATIONAL PRIOR TO OPENING ROADWAY TO TRAFFIC.

15. ALL CONDUITS AND CABLES SHALL BE INSTALLED WITHING THE LANDSCAPING BUFFER.

NEW	EXISTING	ITEM
		LIGHTING STANDARD WITH LUMINAIRE AS INDICATED
		WOOD POLE WITH LUMINAIRE AS INDICATED
		LIGHTING STANDARD WITH DOUBLE ARM LUMINAIRE AS INDICATED
---	---	CONDUIT RUN
		PULL BOX
		JUNCTION BOX
		SERVICE POLE WITH SERVICE RISER
		LIGHTING CONTROL CABINET
		METER PEDESTAL
		WOOD POLE (TEMPORARY)
— — — — —		OVERHEAD ELECTRIC LINE
		CONDUIT RUN NUMBER

LUMINAIRE NUMBER

STATIONING

00-00-000-0-S

TYPE OF LAMP (SODIUM)

TYPE OF DISTRIBUTION

WATTAGE

ARM LENGTH

MOUNTING HEIGHT

1. COSTS FOR LOCAL POWER COMPANY TO PROVIDE POWER SERVICE.

NO.	DATE	REMARKS	BY	ENGINEER'S SEAL	SURVEY INFORMATION		BENCH MARKS	AS BUILT INFORMATION		
					FIELD NOTES			CONTRACTOR	ALL INC	
					NO.	BY				DATE
							ACS 3 1/4" aluminum cap, stamped			
							"10-L10", set flush on top of			
							concrete curb in the Southwest			
							quadrant, Northeast nose of			
							traffic control island at the			
							intersection of Tower Road SW.			
							and Unser Boulevard SW. Second			
							Order, First Class NGVD29			
REVISIONS										
HDR ENGINEERING INC.										
DESIGNED BY:	MCL	DATE:	3/21/2007							
DRAWN BY:	MCL	DATE:	3/21/2007							
CHECKED BY:	EML	DATE:	A file folder							
APPROVED BY:	EML	DATE:								

2155 LOUISIANA BLVD., NE
SUITE 1000
ATLANTA, GA 30329
PHONE (404) 525-2400
FAX (404) 525-2424

HDR
ENGINEERING INC.

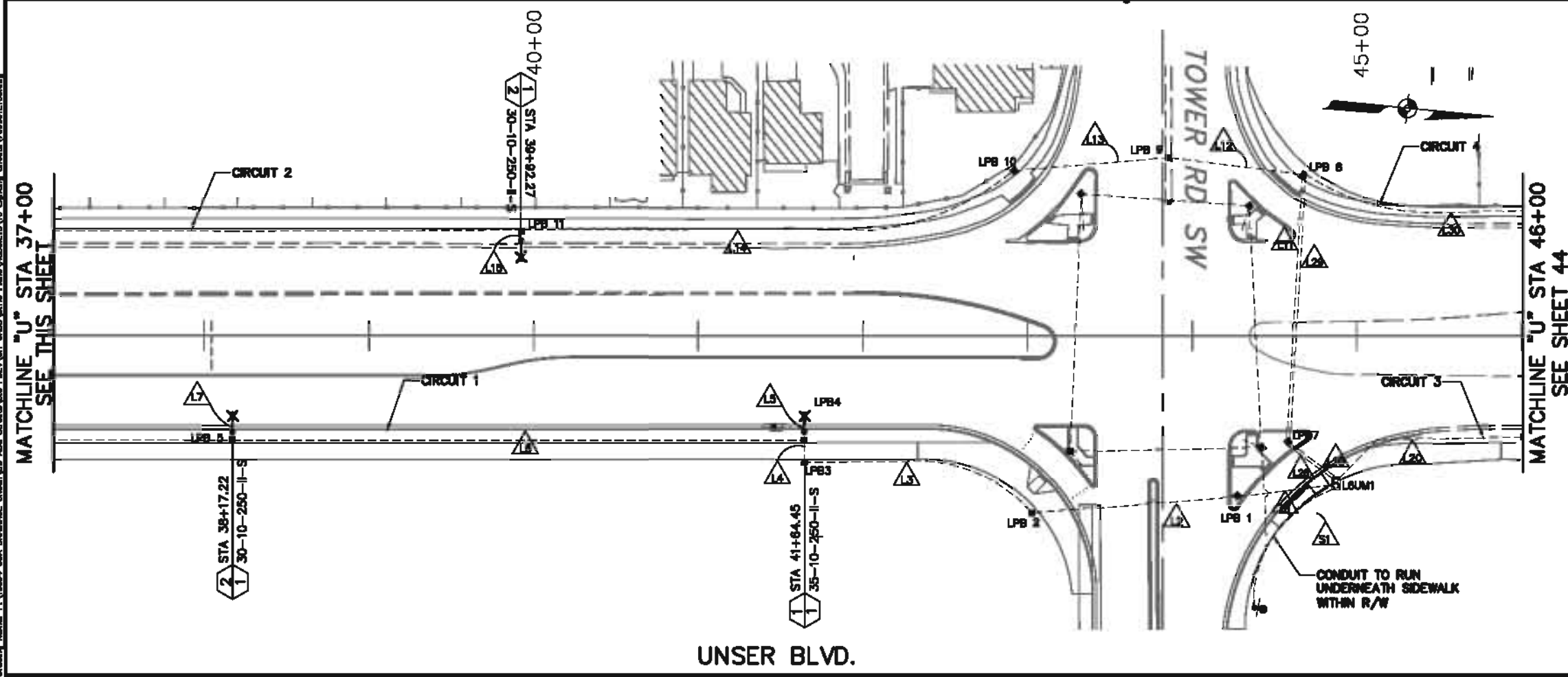
ONE COMPANY
Many Solutions


CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION
TITLE: UNSER BLVD. IMPROVEMENTS - SAGE TO CENTRAL
LIGHTING GENERAL NOTES

Design Review Committee	City Engineer Approval	Last Design Update	10/26/2017	10/26/2017
City Project No. 7699.91	Zone Map No. K10- L10	Sheet 40 of 82		

Drawn: Jan 15, 2001 - 11:00am
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CADD\15004-10 Lighting\Sheet\15004-10.LXD

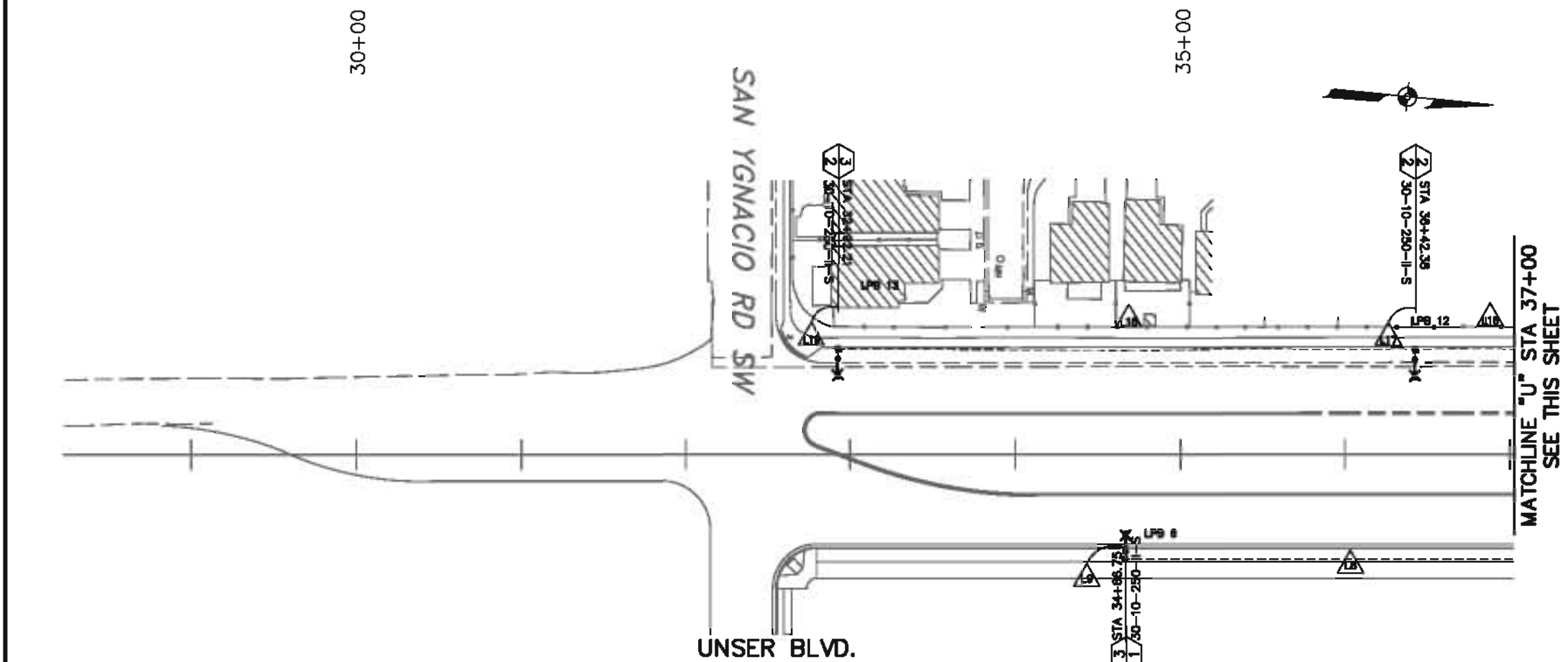
MATCHLINE "U" STA 37+00
SEE THIS SHEET



UNSER BLVD.

TOWER RD SW

MATCHLINE "U" STA 46+00
SEE SHEET 44



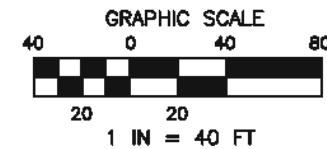
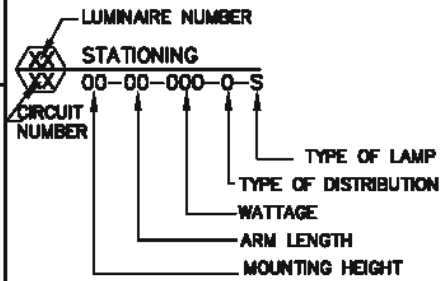
30+00

35+00

NOTE:
FOR ADDITIONAL PULL BOX AND POWER INFORMATION, SEE SIGNAL PLANS.

LIGHTING LEGEND

NEW	EXISTING	ITEM
		LIGHTING STANDARD WITH LUMINAIRE AS INDICATED
		WOOD POLE WITH LUMINAIRE AS INDICATED
		LIGHTING STANDARD WITH DOUBLE ARM LUMINAIRE AS INDICATED
		CONDUIT RUN
		PULL BOX
		JUNCTION BOX
		SERVICE POLE WITH SERVICE RISER
		LIGHTING CONTROL CABINET
		METER PEDESTAL
		WOOD POLE (TEMPORARY)
		OVERHEAD ELECTRIC LINE
		CONDUIT RUN NUMBER



CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION

TITLE: UNSER BLVD. IMPROVEMENTS - SAGE TO CENTRAL
LIGHTING PLAN

Design Review Committee	City Engineer Approval	DATE	DATE
		3/10/2008	3/10/2008

City Project No. 7699.91 Zone Map No. K10, L10 Sheet 43 of 82

DESIGNED BY: MCL DATE: 3/10/2008
DRAWN BY: MCL DATE: 3/10/2008
CHECKED BY: EAH DATE: 4/05/2008

HDR ENGINEERING INC.
REVISIONS

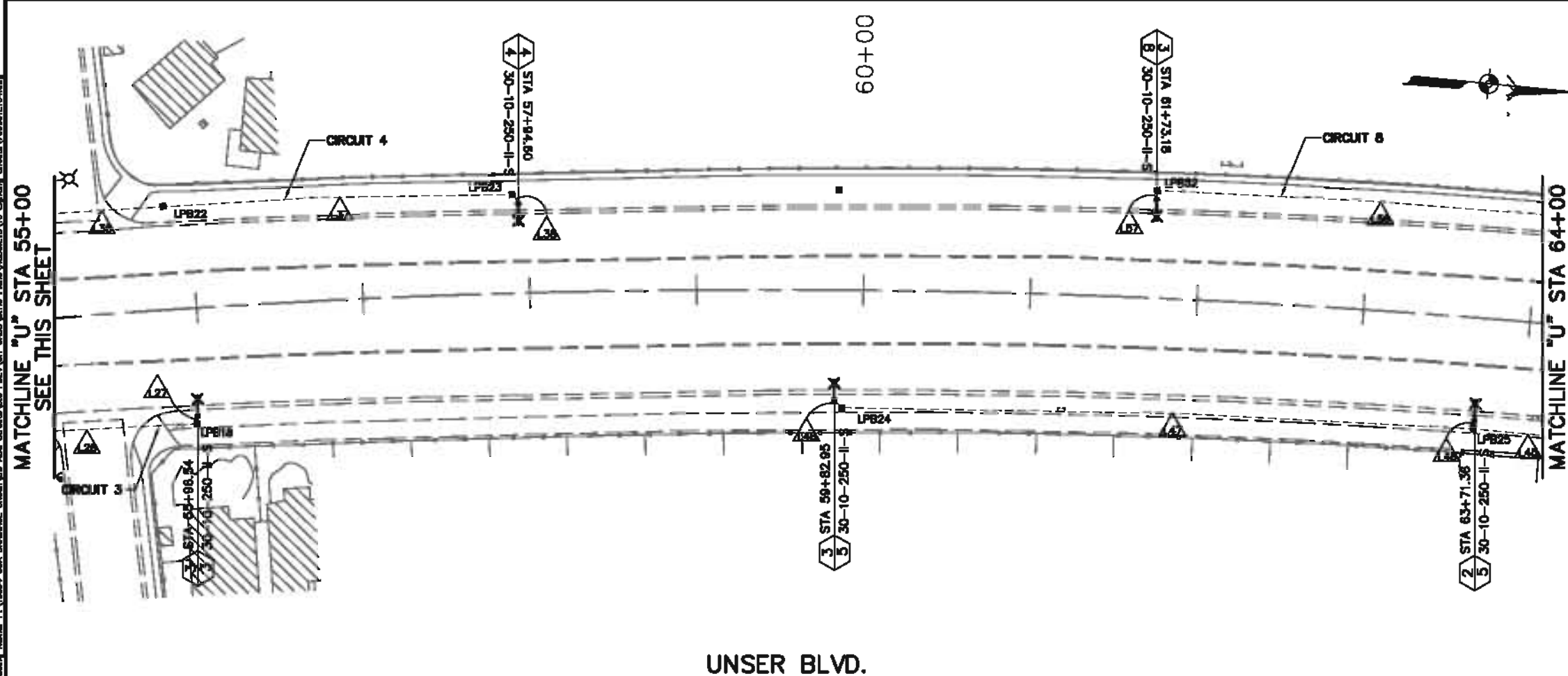
NO.	DATE	REVISIONS	BY

AS BUILT INFORMATION

CONTRACTOR	DATE	DATE	DATE	DATE

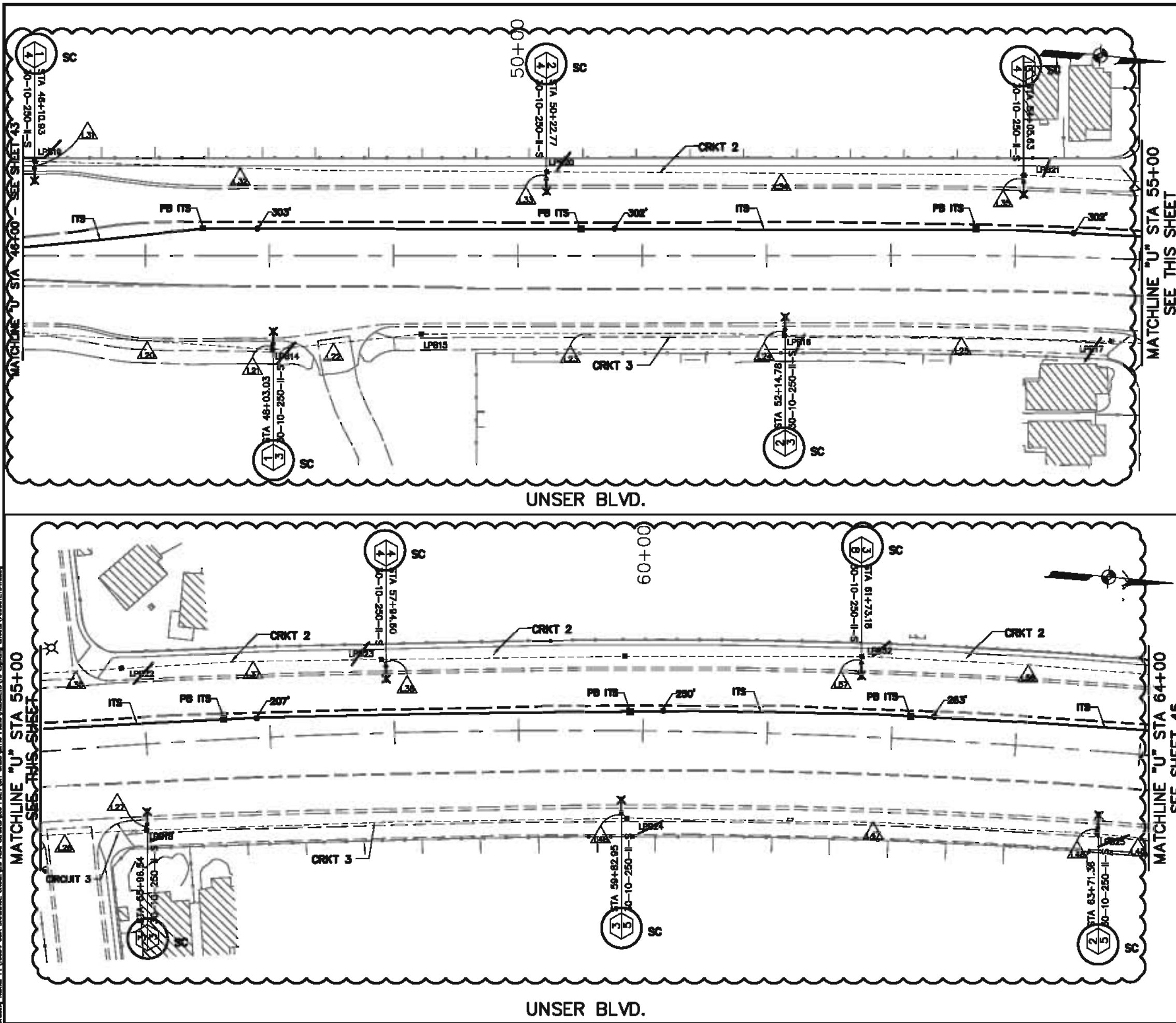
MICRO-FILM INFORMATION

RECORDED BY	DATE



Design Review Committee	City Engineer Approval	L E A D E R S H I P C O O R D I N A T O R	Mark	Mark
City Project No. 7699.91		Zone Map No. K10. L10	Sheet 44 Of 82	

Job No. 10, 2001 - 10,000
Drawing Name: CITY OF ALBUQUERQUE, TRANSPORTATION DEPARTMENT, TRANSPORTATION DEVELOPMENT DIVISION
Drawing No.: 7699.91
Drawing Date: 3/10/2008
Drawing By: MCL
Checked By: EAH



NOTE:
FOR ADDITIONAL PULL BOX AND POWER INFORMATION, SEE SIGNAL PLANS.

LIGHTING LEGEND

NEW	EXISTING	ITEM
		LIGHTING STANDARD WITH LUMINAIRE AS INDICATED
		WOOD POLE WITH LUMINAIRE AS INDICATED
		LIGHTING STANDARD WITH DOUBLE ARM LUMINAIRE AS INDICATED
		CONDUIT RUN
		PULL BOX
		JUNCTION BOX
		SERVICE POLE WITH SERVICE RISER
		LIGHTING CONTROL CABINET
		METER PEDESTAL
		WOOD POLE (TEMPORARY)
		OVERHEAD ELECTRIC LINE
		CONDUIT RUN NUMBER

SC SHORTY CAP SOCKET

STATIONING
XX 00-00-000-0-S
CIRCUIT NUMBER

LUMINAIRE NUMBER
XX
TYPE OF LAMP
TYPE OF DISTRIBUTION
WATTAGE
ARM LENGTH
MOUNTING HEIGHT

GRAPHIC SCALE
40 0 40 80
20 20
1 IN = 40 FT

ONE COMPANY
HDR
TRANSPORTATION INC.

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION

TITLE: UNSER BLVD. IMPROVEMENTS - SAGE TO CENTRAL

LIGHTING PLAN

Design Review Committee	City Engineer Approval	DATE: 3/10/2008	DATE: 3/10/2008
DATE: 3/10/2008	DATE: 3/10/2008	DATE: 3/10/2008	DATE: 3/10/2008

City Project No. 7699.91 Zone Map No. K10, L10 Sheet 44A of 82

AS BUILT INFORMATION

DATE	BY	DATE	BY
DATE: 3/10/2008	DATE: 3/10/2008	DATE: 3/10/2008	DATE: 3/10/2008

BENCH MARKS
ACS 3/4" aluminum cap, stamped
"10-L10", set flush on top of
concrete curb in the Southwest
quadrant, Northeast nose of
traffic control island at the
intersection of Tower Road SW,
and Unser Boulevard SW. Second
Order, First Class NGVD29

SURVEY INFORMATION

NO.	DATE	BY
NO.	DATE	BY

ENGINEER'S SEAL

NO.	DATE	BY
NO.	DATE	BY

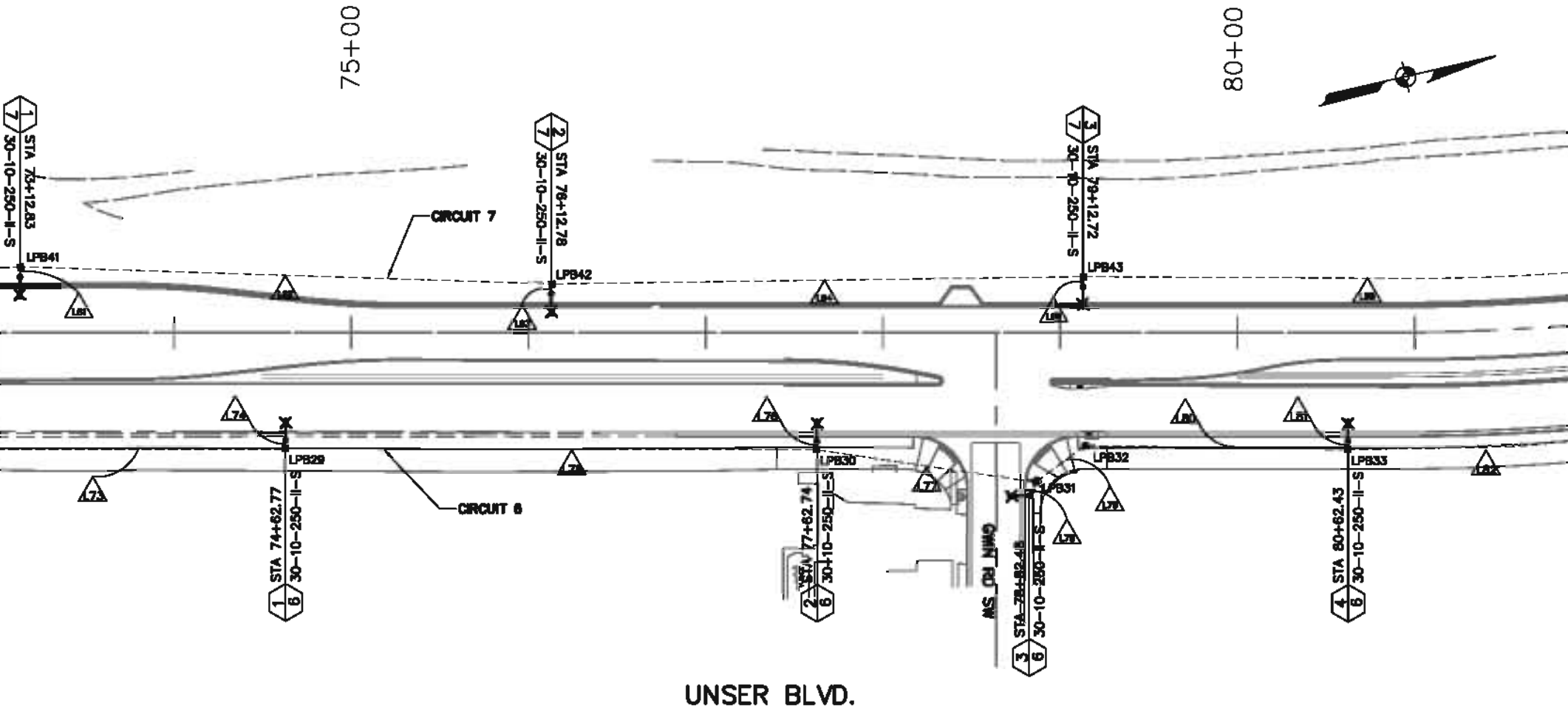
REVISIONS

NO.	DATE	REVISIONS
2	07/10	PER COA DMD (JCS)

DESIGNED BY: MCL DATE: 3/10/2008
DRAWN BY: MCL DATE: 3/10/2008
CHECKED BY: EAH DATE: 4/05/2008

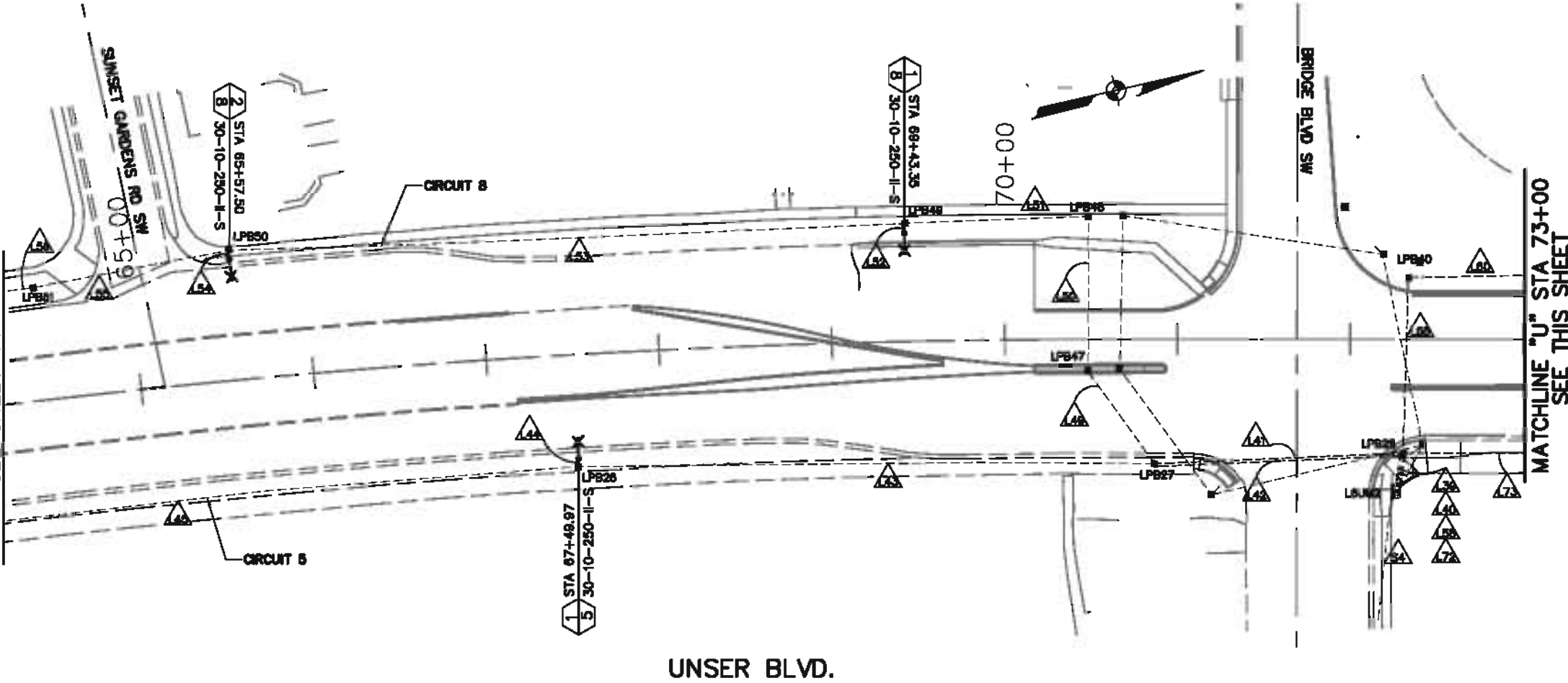
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MATCHLINE "U" STA 73+00
SEE THIS SHEET



UNSER BLVD.

MATCHLINE "U" STA 64+00
SEE SHEET 44



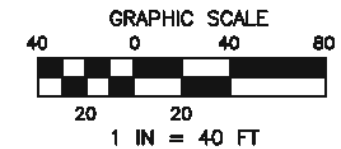
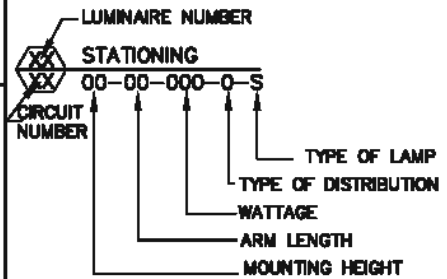
UNSER BLVD.

MATCHLINE "U" STA 73+00
SEE THIS SHEET

NOTE:
FOR ADDITIONAL PULL BOX AND POWER
INFORMATION, SEE SIGNAL PLANS.

LIGHTING LEGEND

NEW	EXISTING	ITEM
		LIGHTING STANDARD WITH LUMINAIRE AS INDICATED
		WOOD POLE WITH LUMINAIRE AS INDICATED
		LIGHTING STANDARD WITH DOUBLE ARM LUMINAIRE AS INDICATED
		CONDUIT RUN
		PULL BOX
		JUNCTION BOX
		SERVICE POLE WITH SERVICE RISER
		LIGHTING CONTROL CABINET
		METER PEDESTAL
		WOOD POLE (TEMPORARY)
		OVERHEAD ELECTRIC LINE
		CONDUIT RUN NUMBER



ONE COMPANY
HDR
Engineering Inc.

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION
TITLE: UNSER BLVD. IMPROVEMENTS - SAGE TO CENTRAL
LIGHTING PLAN

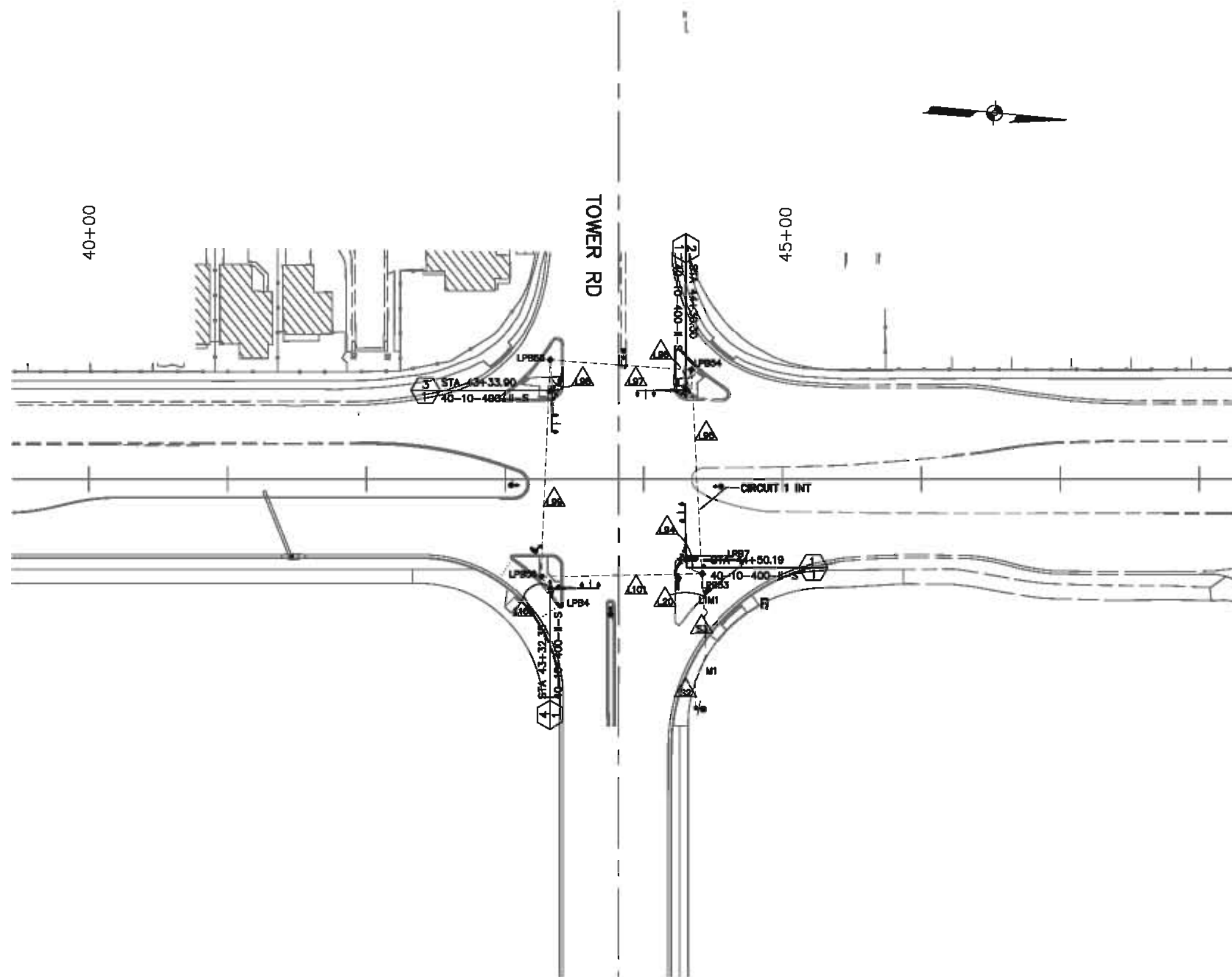
Design Review Committee	City Engineer Approval	Zone Map No.	Sheet	Of
		7699.91	45	82
		K10, L10		

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	BY	DATE	CONTRACTOR	DATE	DATE

ENGINEER'S SEAL		REVISIONS	
NO.	DATE	REVISIONS	BY

DESIGNED BY: MCL	DATE: 3/10/2008
DRAWN BY: MCL	DATE: 3/10/2008
CHECKED BY: EAH	DATE: 4/05/2008

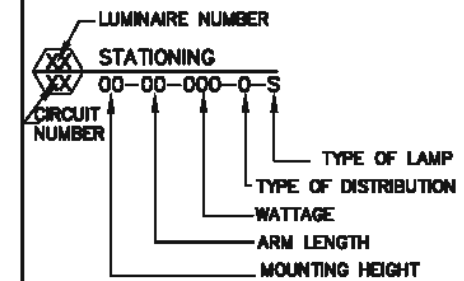
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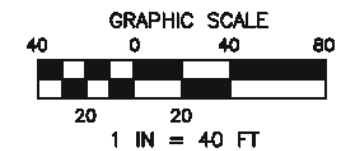
NOTE:
FOR ADDITIONAL PULL BOX AND POWER
INFORMATION, SEE SIGNAL PLANS.

LIGHTING LEGEND

NEW	EXISTING	ITEM
		LIGHTING STANDARD WITH LUMINAIRE AS INDICATED
		WOOD POLE WITH LUMINAIRE AS INDICATED
		LIGHTING STANDARD WITH DOUBLE ARM LUMINAIRE AS INDICATED
		CONDUIT RUN
		PULL BOX
		JUNCTION BOX
		SERVICE POLE WITH SERVICE RISER
		LIGHTING CONTROL CABINET
		METER PEDESTAL
		WOOD POLE (TEMPORARY)
		OVERHEAD ELECTRIC LINE
		CONDUIT RUN NUMBER



FOR INTERSECTION LIGHTING, LUMINAIRE
ARE MOUNTED ON TYPE III SIGNAL
MASTARMS.



ONE COMPANY
HDR
ENGINEERING INC.

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION
TITLE: UNSER BLVD. IMPROVEMENTS - SAGE TO CENTRAL
INTERSECTION LIGHTING PLAN

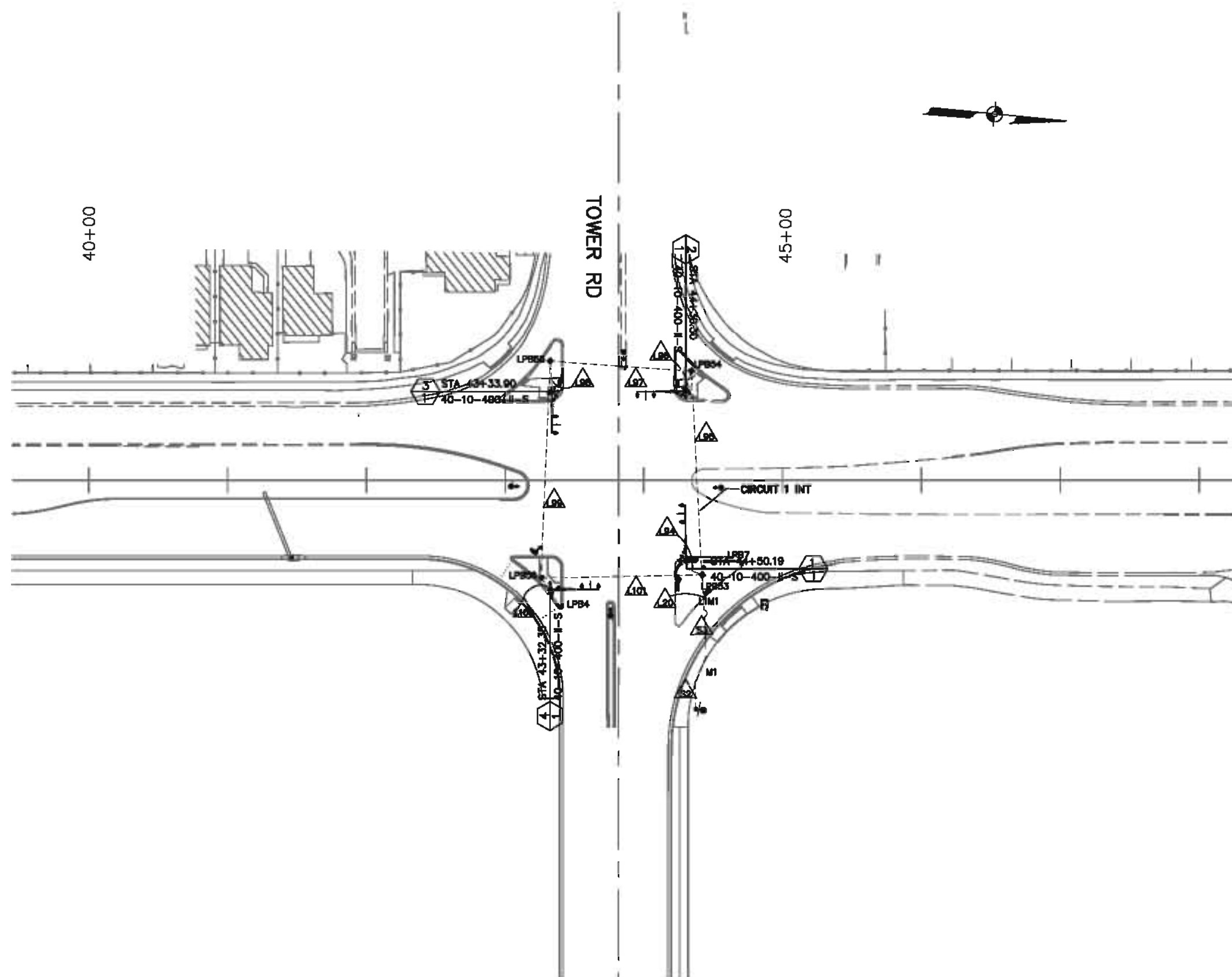
Design Review Committee	City Engineer Approval	10/20/00	10/20/00
Last Design Update			
City Project No.	Zone Map No.	Sheet	Of
7699.91	K10, L10	47	82

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	DATE	NO.	DATE	NO.	DATE

ENGINEER'S SEAL		REVISIONS	

DESIGNED BY: MCL	DATE: 3/21/2008
DRAWN BY: MCL	DATE: 3/21/2008
CHECKED BY: EJM	DATE: 4/05/2008

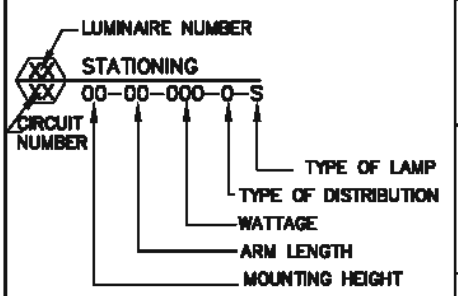
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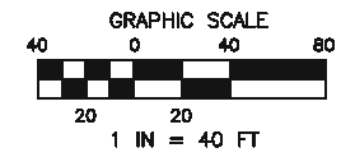
NOTE:
FOR ADDITIONAL PULL BOX AND POWER INFORMATION, SEE SIGNAL PLANS.

LIGHTING LEGEND

NEW	EXISTING	ITEM
		LIGHTING STANDARD WITH LUMINAIRE AS INDICATED
		WOOD POLE WITH LUMINAIRE AS INDICATED
		LIGHTING STANDARD WITH DOUBLE ARM LUMINAIRE AS INDICATED
		CONDUIT RUN
		PULL BOX
		JUNCTION BOX
		SERVICE POLE WITH SERVICE RISER
		LIGHTING CONTROL CABINET
		METER PEDESTAL
		WOOD POLE (TEMPORARY)
		OVERHEAD ELECTRIC LINE
		CONDUIT RUN NUMBER



FOR INTERSECTION LIGHTING, LUMINAIRES ARE MOUNTED ON TYPE III SIGNAL MASTARMS.



HDR
ENGINEERING INC.

ONE COMPANY
Many Solutions

2000 LUBIANA BLVD., NE
SUITE 100
ALBUQUERQUE, NM 87110
PHONE: 505.262.2000
FAX: 505.262.2001

DESIGNED BY: MCL
DRAWN BY: MCL
CHECKED BY: EJM

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION
TITLE: UNSER BLVD. IMPROVEMENTS - SAGE TO CENTRAL
INTERSECTION LIGHTING PLAN

Design Review Committee	City Engineer Approval	DATE: 3/21/2008	DATE: 3/21/2008
Last Design Update		DATE: 3/21/2008	DATE: 4/05/2008
City Project No.	Zone Map No.	Sheet	Of
7699.91	K10, L10	47A	82

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	BY	DATE	DESCRIPTION	CONTRACTOR	DATE
			"10-L10", set flush on top of concrete curb in the Southwest quadrant, Northeast nose of traffic control island at the intersection of Tower Road SW. and Unser Boulevard SW. Second Order, First Class NGVD29		

TRAFFIC SIGNAL NOTES

1. CONTRACTOR SHALL CONTACT THE CITY OF ALBUQUERQUE FOR APPROVED PRODUCTS LISTING FOR TRAFFIC SIGNAL COMPONENTS.
2. LOCATIONS OF CONDUITS, FOUNDATIONS, CONTROL CABINETS, POLES, PULL BOXES, MANHOLES, AND SPLICE CABINETS SHOWN ON THE PLANS ARE SCHEMATIC AND SHALL BE ADJUSTED IN THE FIELD TO AVOID UTILITIES AND TO MAXIMIZE CLEAR SPACE AVAILABLE FOR PEDESTRIANS AND WHEELCHAIRS TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT. THE CONTRACTOR SHALL MEET WITH THE PROJECT MANAGER IN THE FIELD AT ALL LOCATIONS TO SPOT EQUIPMENT BEFORE BEGINNING THE WORK. ALL SUCH EQUIPMENT SHALL BE INSTALLED WITHIN THE RIGHT-OF-WAY.
3. THE CONTRACTOR IS WARNED THAT EXISTING CONDUITS MAY CONTAIN AC POWER AND CAUTION SHALL BE EXERCISED IN INTERCEPTING OR INSTALLING CABLE IN EXISTING CONDUIT.
4. MASTARMS SHALL BE PLACED 90° TO THE CENTERLINE UNLESS OTHERWISE NOTED.
5. SPLICING OF VIDEO DETECTION COAXIAL CABLE WILL NOT BE PERMITTED BETWEEN THE MASTARM BASE AND THE CONTROLLER CABINET. SPLICING OF OPTICAL DETECTOR CABLE WILL NOT BE PERMITTED FROM THE OPTICAL DETECTOR TO THE CONTROLLER CABINET.
6. ALL VIDEO DETECTION COAXIAL AND POWER CABLES SHALL BE TAGGED AT THE CONTROL CABINET TO IDENTIFY EACH CABLE BY CAMERA NUMBER AND LOCATION. ALL OPTICAL DETECTOR CABLES SHALL BE TAGGED AT THE CONTROL CABINET TO IDENTIFY EACH BY DIRECTION AND LOCATION.
7. THE CONTRACTOR SHALL NOTIFY THE CITY OF ALBUQUERQUE SIGNAL LAB THREE WORKING DAYS IN ADVANCE OF ANY ANTICIPATED WORK ON SIGNALS, LIGHTING, AND POWER SERVICES. TRAFFIC ENGINEERING PERSONNEL MUST BE PRESENT WHEN SIGNALS ARE SHUT OFF OR TURNED ON. THE CONTRACTOR SHALL ALSO NOTIFY THE CITY OF ALBUQUERQUE EACH TIME A TRAFFIC SIGNAL CONTROL DOOR IS OPENED. CONTRACTOR SHALL NOTIFY THE CITY OF ALBUQUERQUE SIGNAL LAB TWO WEEKS PRIOR TO TURNING ON NEW SIGNALS.
8. THE CONTRACTOR SHALL NOTIFY PNM ELECTRIC THIRTY (30) DAYS IN ADVANCE OF ANTICIPATED POWER SERVICE CONNECTIONS. THE CONTRACTOR SHALL COORDINATE WITH PNM ELECTRIC TO ESTABLISH ELECTRICAL SERVICE IN CITY OF ALBUQUERQUE'S NAME. THE CONTRACTOR SHALL PAY PNM ELECTRIC ALL COSTS TO PROVIDE ELECTRICAL SERVICE. THIS WORK WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
9. THE CONTRACTOR SHALL REMOVE ALL CONFLICTING SIGNING AND DELIVER TO CITY OF ALBUQUERQUE PINK YARDS WHEN TRAFFIC SIGNALS ARE PUT INTO OPERATION.
10. FOR CONDUITS CONTAINING ONLY LOW VOLTAGE COMMUNICATIONS CABLES THE REQUIREMENTS FOR SINGLE CONDUCTOR BARE COPPER #8 AWG MAY BE WAIVED WHERE PERMITTED BY THE NATIONAL ELECTRICAL CODE.
11. EXISTING CONDUITS TO BE REMOVED OR ABANDONED SHALL HAVE ALL WIRING REMOVED.
12. EXISTING CONDUITS SHALL BE REPAIRED, ADJUSTED, OR REPLACED AS DIRECTED BY THE PROJECT MANAGER WHERE ELECTRICAL PULL BOXES OR TRAFFIC MANHOLES ARE INSTALLED OR REPLACED.
13. THE CONTRACTOR SHALL ARRANGE TO HAVE OFF-DUTY POLICE OFFICERS TO DIRECT TRAFFIC WHEN NEW SIGNALS ARE PLACED INTO OPERATION OR WHEN EXISTING SIGNALS ARE TEMPORARILY SHUT OFF.
14. THE CONTRACTOR SHALL COORDINATE WITH QWEST TELEPHONE COMPANY TO INSTALL A STANDARD TELEPHONE SERVICE IN THE CITY OF ALBUQUERQUE'S NAME TO THE LOCATION SHOWN ON THE PLANS. THIS WORK WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
15. THE EXISTING TRAFFIC SIGNAL EQUIPMENT INCLUDING POLES, CONTROLLER, CABINETS, SIGNAL HEADS, PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, FITTINGS, BACK PLATES, LOAD SWITCHES, CONFLICT MONITORS, AND DETECTORS SHALL BE DELIVERED TO THE CITY OF ALBUQUERQUE PINK YARD.
16. THE CONTRACTOR SHALL FURNISH FOUNDATION ELEVATIONS TO THE PROJECT MANAGER FOR APPROVAL BEFORE INSTALLATION. THE CONTRACTOR SHALL GRADE AROUND THE FOUNDATIONS TO PROVIDE TRAVERSABLE SLOPES AS DIRECTED BY THE PROJECT MANAGER. THE CONTRACTOR SHALL SUBMIT CROSS-SECTIONS FOR APPROVAL BASED ON ACTUAL FIELD ELEVATIONS. ALL EXCAVATION AND/OR EMBANKMENT REQUIRED WILL BE CONSIDERED INCIDENTAL.
17. SIGNALS NEAR EXISTING OVERHEAD POWER LINES MUST MAINTAIN A VERTICAL CLEARANCE AND/OR A HORIZONTAL CLEARANCE FROM THE CLOSEST PHASE CONDUCTOR. PNM ELECTRIC WILL ASSIST IN MEASUREMENT AND DETERMINATION OF CLEARANCE.
18. ALL CONDUIT INSTALLED IN A TRENCH SHALL BE FLAGGED WITH CAUTION TAPE ONE FOOT ABOVE CONDUIT.
19. THE CONTRACTOR SHALL INSTALL INTERNALLY ILLUMINATED STREET NAME SIGNS (ISN) IN PLACE OF MASTARM MOUNTED ALUMINUM PANEL SIGNS AT THE INTERSECTIONS OF UNSER & TOWER AND UNSER & BRIDGE. THE BRAND OF ILLUMINATED STREET NAME SIGN SHOULD BE CARMANAH. THE SIGNS SHOULD BE 18" TALL WITH 10" C WHITE LETTERS FOR THE STREET NAME AND 4.5" C WHITE LETTERS FOR THE STREET DESIGNATION, QUADRANT AND ADDRESS AND A GREEN TRANSLUCENT BACKGROUND. THE LENGTH OF THE SIGN (8' OR 8') WILL DEPEND ON THE STREET NAME. DETAILS FOR THE ILLUMINATED STREET NAME SIGN ARE INCLUDED IN THE SIGNAL PLANS.

TRAFFIC SIGNAL EQUIPMENT REQUIREMENTS

1. THIS PROJECT IS A NEW SIGNAL SYSTEM. THEREFORE THE CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING:
- A. ALL NEW TRAFFIC SIGNAL CONTROLLERS ON THIS PROJECT SHALL BE AS DIRECTED BY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING DEPARTMENT (KEVIN BRODERICK, 857-8700).
- B. ALL EIGHT PHASE DUAL RING CONTROLLER CABINETS SUPPLIED FOR THIS PROJECT SHALL BE "P" SIZE CABINETS WIRED FOR FULL 8 PHASE SYSTEM OPERATION, TELEMETRY BOARDS, "IT" TRANSIENT VOLTAGE SURGE SUPPRESSOR AND ALL CONNECTING HARNESSSES. THESE CABINETS SHALL BE CAPABLE OF VIDEO DETECTION.
2. SPLICE CABINETS SHALL BE AS DETAILED ON THE PLANS. LOW VOLTAGE 2. SPLICE BLOCKS SHALL BE 50 UNITS TO THE FOOT, WITH EACH SPLICE BLOCK CAPABLE OF HANDLING 25 PAIR CABLE (NUMBER OF SPLICE BLOCKS IN EACH CABINET CAPABLE OF HANDLING NUMBER OF CONDUCTORS SHOWN ON PLANS). SPLICE BLOCKS SHALL BE BELL SYSTEMS PART #88B3-50 OR APPROVED EQUAL. ALL COMMUNICATION CABLE PAIRS SHALL BE TERMINATED AT THE SPLICE BLOCK INCLUDING INACTIVE PAIRS.
3. INTERCONNECT CABLES SHALL COMPLY WITH REA SPECIFICATION PE-22 3. INTERCONNECT CABLE SHALL CONTAIN THE NUMBER OF WIRE PAIRS SHOWN ON THE PLANS AND THE INDIVIDUAL CONDUCTORS SHALL BE 19 AWG SOLID.

TRAFFIC SIGNAL EQUIPMENT REQUIREMENTS CONT.

4. EMERGENCY VEHICLE PRE-EMPT EQUIPMENT SHALL BE 3M "OPTICOM" 4. MODEL 782 (OR MOST CURRENT ACCEPTABLE MODEL) PHASE SELECTORS MOUNTED ON 3M "OPTICOM" MODEL 780 RACKS, OR APPROVED EQUAL. ALL RACKS SHALL BE CAPABLE OF PROVIDING FOUR CHANNELS OF DETECTION. PHASE SELECTOR MODULES SHALL BE CAPABLE OF TWO CHANNELS OF DETECTION EACH. A MANUFACTURERS REPRESENTATIVE SHALL ASSIST THE CONTRACTOR IN THE FIELD AS WORK PROGRESSES TO COMPLETE THE INSTALLATION OF ALL PRE-EMPTION EQUIPMENT AND ASSIST IN SETTING UP, TURNING ON, PROGRAMMING AND FIELD TESTING PREEMPTION EQUIPMENT INCLUDING EMITTERS TO INSURE THAT THE EQUIPMENT IS OPERATIONAL.
5. THIS PROJECT INVOLVES THE INSTALLATION OF A MACHINE VISION VEHICLE 5. DETECTION SYSTEM. THEREFORE THE CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING:
- A. AN ECONOLITE "AUTOSCOPE" 2004, PEEK VIDEO TRACK 900, OETICS ITERS (LATEST VERSION) OR TRAFCON (LATEST VERSION) MACHINE VISION VEHICLE DETECTION SYSTEM UNIT, ALL NECESSARY CABLES, HARNESSSES, MATERIALS, FITTINGS, AND MISCELLANEOUS COMPONENTS NECESSARY TO PROVIDE A COMPLETE AND OPERATING SYSTEM AT SIGNALIZED INTERSECTION.
- B. FIXED VIDEO CAMERAS WITH ZOOM CAPABILITY MOUNTED AT LOCATIONS SHOWN ON PLANS.
- C. A REMOTE INTERFACE UNIT WITH MONITOR SHALL BE FURNISHED FOR PROGRAMMING/OPERATION OF SYSTEM.
- D. SOFTWARE AND HARNESSSES TO CONNECT AND OPERATE THE NEW SYSTEM.
- E. VIDEO POWER CABLE SHALL BE A THREE CONDUCTOR #12 AWG TWISTED POWER SERVICE CABLE.
- F. THE INSTALLATION AND SET UP OF THE VIDEO EQUIPMENT SHALL BE UNDER THE DIRECTION OF A FACTORY REPRESENTATIVE.

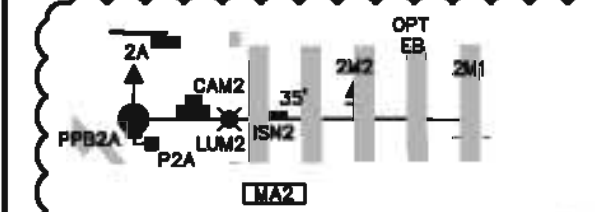
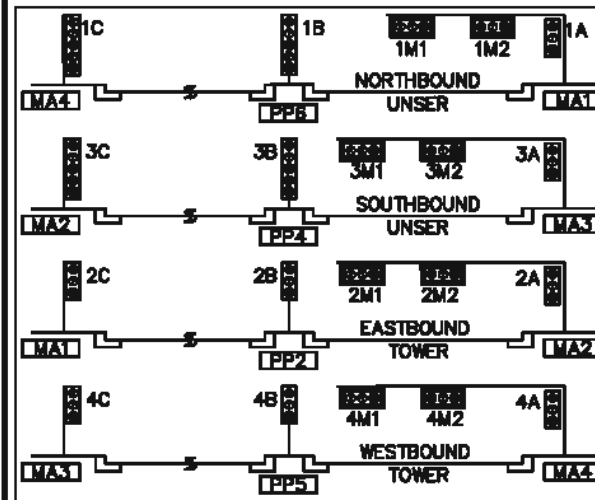
INCIDENTAL ITEMS *

1. REMOVAL OF EXISTING PULL BOXES, CONDUITS, POLES AND OTHER SIGNAL EQUIPMENT FOR INSTALLATION OF NEW SIGNAL EQUIPMENT.
2. CABLE TESTING AND DIAGRAMS.
3. BORING, DRILLING, PUSHING, AND TRENCHING, INCLUDING REMOVAL AND REPLACEMENT OF PAVEMENT, SIDEWALKS, DRIVEPADS, VALLEY GUTTERS, WHEELCHAIR RAMPS, CURB & GUTTER, AND LANDSCAPING (INCLUDING SPRINKLERS), FOR INSTALLATION OF PULL BOXES, CONDUITS, AND SIGNAL FOUNDATIONS, EXCEPT AS NOTED ON THE PLANS.
4. LOCATION OF UTILITY LINES INCLUDING EXPLORATORY TRENCHING AND EXPOSING OF GAS LINES WHEN BORING.
5. DESIGN, MATERIALS, INSTALLATION AND REMOVAL OF SAFETY BARRIER FOR SHIELDING EQUIPMENT OR MATERIAL.
6. APPRISING PUBLIC THROUGH THE LOCAL NEWS MEDIA.
7. HAULING OF MATERIAL TO BE DISPOSED.
8. REMOVAL, SALVAGE, AND TRANSPORTATION OF EXISTING SIGNAL EQUIPMENT TO THE CITY TRAFFIC ENGINEERING OPERATIONS YARD.
9. LEAN FILL FOR CONDUIT TRENCHES.
10. PULL BOX ADJUSTMENT TO GRADE.
11. OFF-DUTY POLICE OFFICER FOR TRAFFIC CONTROL.
12. REMOVAL AND REPLACEMENT IN KIND OR BETTER OF LANDSCAPING INCLUDING SPRINKLERS, FOR INSTALLATION OF PULL BOXES, CONDUITS AND SIGNAL FOUNDATIONS.
13. REMOVAL AND REINSTALLATION OF EXISTING INTERCONNECT COMMUNICATION CABLE IN NEW RELOCATED CONDUIT RUNS.

* ITEMS LISTED ARE ONLY A GENERAL DESCRIPTION OF THE REQUIRED WORK AND MATERIALS, AND MAY NOT BE COMPLETE. THIS LIST DOES NOT INCLUDE ANY INCIDENTAL WORK OR MATERIALS REQUIRED BY THE SPECIAL PROVISIONS SERIALS (STANDARD DETAILS), SUPPLEMENTAL SPECIFICATIONS, OR THE STANDARD SPECIFICATIONS.

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT TRANSPORTATION DEVELOPMENT DIVISION	
TITLE: UNSER BLVD. IMPROVEMENTS - SAGE TO CENTRAL SIGNALIZATION GENERAL NOTES	
Design Review Committee	City Engineer Approval
Last Design Update	
City Project No. 7699.91	
Zone Map No. K10, L10	
Sheet 49 of 82	

TRAFFIC SIGNAL CONFIGURATION BY APPROACH



FLASH CONDITION

RED BALL 1A,1B,1C,1M1,1M2
3A,3B,3C,3M1,3M2
RED BALL 2A,2B,2C,2M1,2M2
4A,4B,4C,4M1,4M2

INITIALIZATION

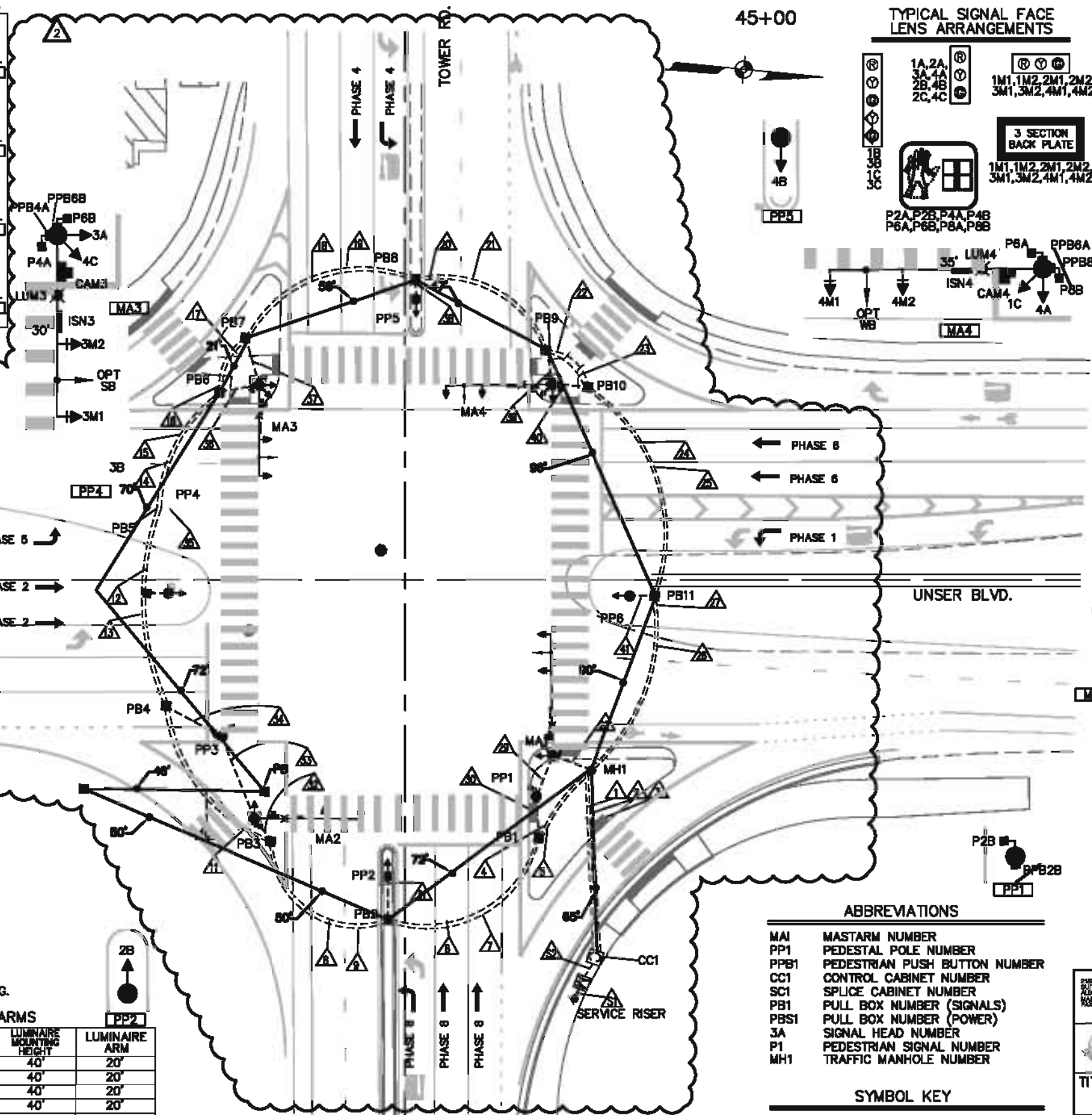
ALL RED, THEN PHASE 2 AND 6 GREEN

NOTES

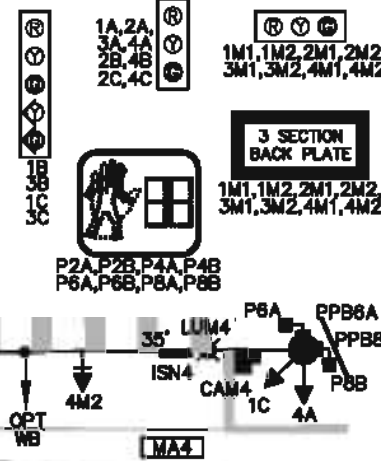
1. PULL BOXES PB1 THRU PB11 ARE LARGE SIZE.
2. PULL BOXES PBS1 IS STANDARD SIZE.
3. SEE THE LIGHTING PLANS FOR INTERSECTION LIGHTING.

SIGNAL POLES AND MASTARMS

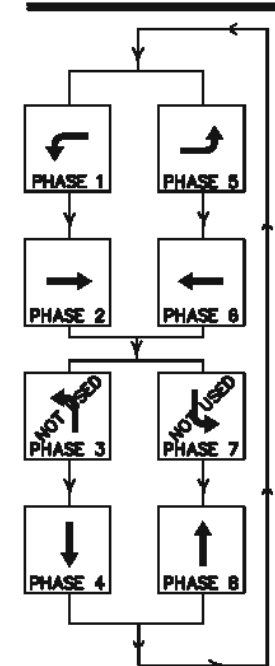
ID #	TYPE	STATION	OFFSET	LUMINAIRE MOUNTING HEIGHT	LUMINAIRE ARM
MA1	MASTARM-40' TYPE III	44+30.77	83.6' RT	40'	20'
MA2	MASTARM-35' TYPE III	43+32.35	78.4' RT	40'	20'
MA3	MASTARM-30' TYPE III	43+33.90	64.1' LT	40'	20'
MA4	MASTARM-35' TYPE III	44+30.30	64.3' LT	40'	20'
PP1	PEDESTAL-10'	44+25.00	71.1' RT	-	-
PP2	PEDESTAL-15'	43+76.18	97.5' RT	-	-
PP3	PEDESTAL-10'	43+21.67	51.5' RT	-	-
PP4	PEDESTAL-15'	43+08.05	23.4' LT	-	-
PP5	PEDESTAL-15'	43+85.49	92.2' LT	-	-
PP6	PEDESTAL-15'	44+55.74	5.2' RT	-	-
CC1	CONTROLLER	44+33.21	85.5' RT	-	-



TYPICAL SIGNAL FACE LENS ARRANGEMENTS



SIGNAL PHASING

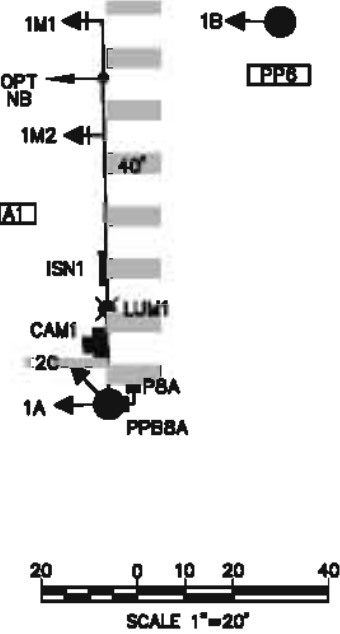


ABBREVIATIONS

MA1	MASTARM NUMBER
PP1	PEDESTAL POLE NUMBER
PPB1	PEDESTRIAN PUSH BUTTON NUMBER
CC1	CONTROL CABINET NUMBER
SC1	SPLICE CABINET NUMBER
PB1	PULL BOX NUMBER (SIGNALS)
PBS1	PULL BOX NUMBER (POWER)
3A	SIGNAL HEAD NUMBER
P1	PEDESTRIAN SIGNAL NUMBER
MH1	TRAFFIC MANHOLE NUMBER

SYMBOL KEY

MAX	SIGNAL & CABINET ID
△	CONDUIT RUN ID (SIGNALS)
△	CONDUIT RUN ID (POWER SERVICE)
△	CONDUIT RUN ID (INTERCONNECT)
△	CONDUIT RUN ID (FLASHER)



CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT TRANSPORTATION DEVELOPMENT DIVISION TITLE: UNSER BLVD. IMPROVEMENTS - SAGE TO CENTRAL UNSER/TOWER SIGNAL PLAN	
Design Review Committee City Engineer Approval City Project No. 7699.91 Zone Map No. K10, L10 Sheet 51 of 82	Date: 12/2008 Drawn By: MCL Checked By: E.H. Date: 4/05/2008

70+00

72+00

TYPICAL SIGNAL FACE
LENS ARRANGEMENTS

SIGNAL PHASING

FLASH CONDITION

RED BALL 1A,1M1,1M2,1B
3A,3M1,3M2,3B,3C
RED BALL 2A,2M1,2M2,2B
4A,4M1,4M2,4B

INITIALIZATION

ALL RED, THEN PHASE 2 AND 6 GREEN

NOTES

1. PULL BOXES PB1 THRU PB10 ARE LARGE SIZE.
2. SEE THE LIGHTING PLANS FOR INTERSECTION LIGHTING.

SIGNAL POLES AND MASTARMS

ID #	TYPE	STATION	OFFSET	LUMINAIRE MOUNTING HEIGHT	LUMINAIRE ARM
MA1	MASTARM-35' TYPE III	72+35.60	66.40' RT	40'	20'
MA2	MASTARM-35' TYPE III	71+24.40	85.00' RT	40'	20'
MA3	MASTARM-40' TYPE III	70+73.24	30.54' LT	40'	20'
MA4	MASTARM-40' TYPE III	72+10.81	54.18' LT	40'	20'
PP1	PEDESTAL-10'	72+25.80	80.20' RT	-	-
PP2	PEDESTAL-15'	70+81.20	17.00' RT	-	-
PP3	PEDESTAL-10'	71+14.18	36.08' LT	-	-
PP4	PEDESTAL - 15'	72+30.12	38.87' LT	-	-
CC1	CONTROLLER	72+32.40	82.20' RT	-	-

ABBREVIATIONS

MA1 MASTARM NUMBER
PP1 PEDESTAL POLE NUMBER
PPB1 PEDESTRIAN PUSH BUTTON NUMBER
CC1 CONTROL CABINET NUMBER
SC1 SPLICE CABINET NUMBER
PB1 PULL BOX NUMBER (SIGNALS)
PBS1 PULL BOX NUMBER (POWER)
3A SIGNAL HEAD NUMBER
P1 PEDESTRIAN SIGNAL NUMBER
MH1 TRAFFIC MANHOLE NUMBER
SW1 SPANWIRE NUMBER

SYMBOL KEY

MAX SIGNAL & CABINET ID
CONDUIT RUN ID (SIGNALS)
CONDUIT RUN ID (POWER SERVICE)
CONDUIT RUN ID (INTERCONNECT)
CONDUIT RUN ID (FLASHER)

20 0 10 20 40
SCALE 1"=20'

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CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION
TITLE: UNSER BLVD. IMPROVEMENTS - SAGE TO CENTRAL
UNSER/BRIDGE SIGNAL PLAN

Design Review Committee City Engineer Approval
City Project No. 7699.91 Zone Map No. K10, L10 Sheet 55 of 82

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
DATE	BY	DATE	BY	DATE	BY	DATE	BY
DATE 10/08	DATE 10/08	DATE 10/08	DATE 10/08	DATE 10/08	DATE 10/08	DATE 10/08	DATE 10/08
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ENGINEER'S SEAL		REVISIONS	
NO.	DATE	NO.	DATE
1	DATE 10/08	1	DATE 10/08
2	DATE 10/08	2	DATE 10/08
3	DATE 10/08	3	DATE 10/08
4	DATE 10/08	4	DATE 10/08
5	DATE 10/08	5	DATE 10/08
6	DATE 10/08	6	DATE 10/08
7	DATE 10/08	7	DATE 10/08
8	DATE 10/08	8	DATE 10/08
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10	DATE 10/08	10	DATE 10/08

REVISIONS		REVISIONS	
NO.	DATE	NO.	DATE
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REVISIONS		REVISIONS	
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REVISIONS		REVISIONS	
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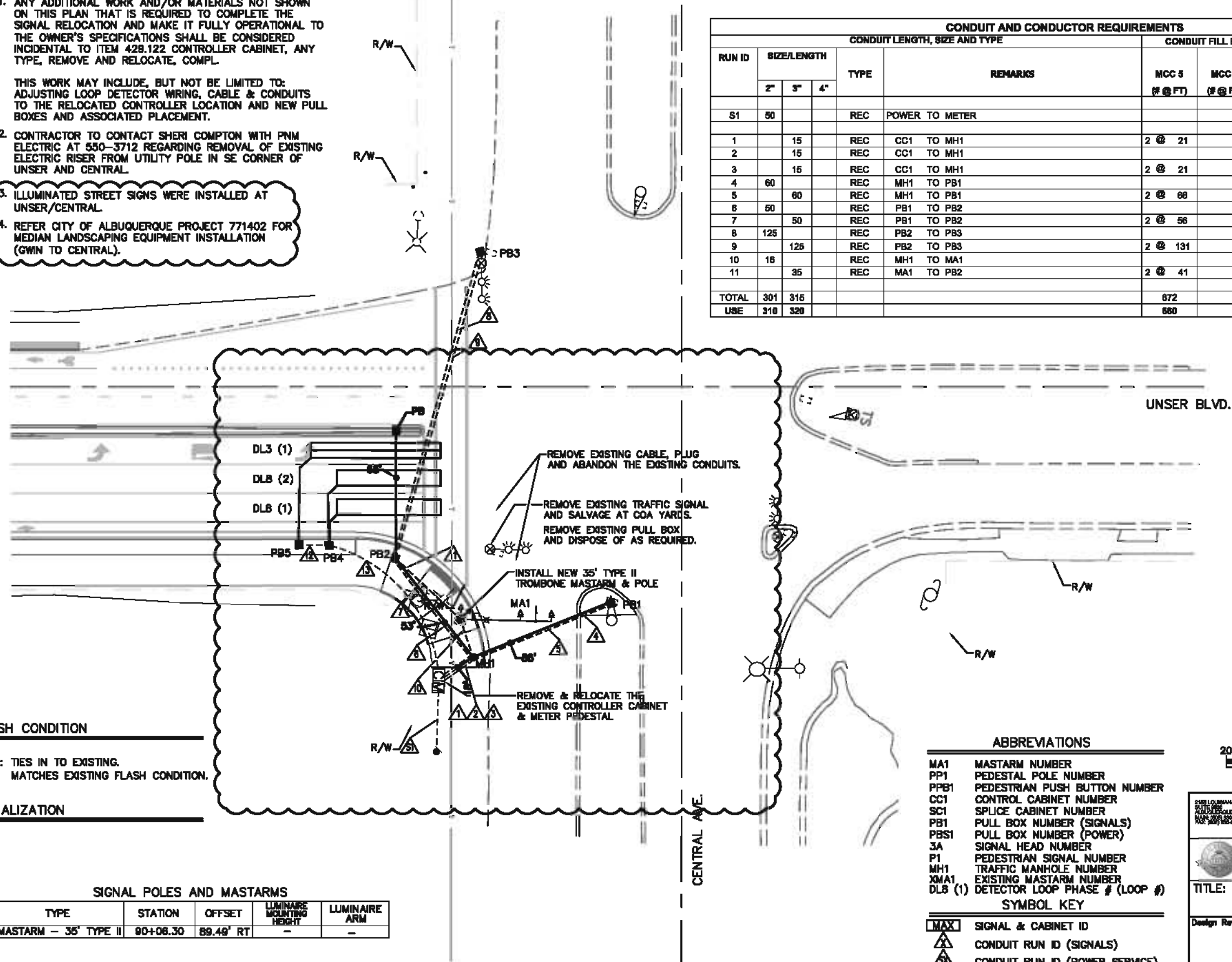
90+00

- THIS WORK MAY INCLUDE, BUT NOT BE LIMITED TO:
ADJUSTING LOOP DETECTOR WIRING, CABLE & CONDUITS
TO THE RELOCATED CONTROLLER LOCATION AND NEW PULL
BOXES AND ASSOCIATED PLACEMENT.**

2. CONTRACTOR TO CONTACT SHERI COMPTON WITH PNM ELECTRIC AT 550-3712 REGARDING REMOVAL OF EXISTING ELECTRIC RISER FROM UTILITY POLE IN SE CORNER OF UNSER AND CENTRAL.

3. ILLUMINATED STREET SIGNS WERE INSTALLED AT UNSER/CENTRAL.

4. REFER CITY OF ALBUQUERQUE PROJECT 771402 FOR MEDIAN LANDSCAPING EQUIPMENT INSTALLATION (GWIN TO CENTRAL).



CONDUIT AND CONDUCTOR REQUIREMENTS										
CONDUIT LENGTH, SIZE AND TYPE						CONDUIT FILL BY CONTRACTOR LENGTH AND TYPE				
RUN ID	SIZE/LENGTH			TYPE	REMARKS	MCC 5	MCC 7	MCC 20	SCC #2	SCC #3
	2"	3"	4"			(# @ FT)	(# @ FT)	(# @ FT)	(# @ FT)	(# @ FT)
S1	50			REC	POWER TO METER				3 @ 56	
1		15		REC	CC1 TO MH1	2 @ 21		2 @ 21		1 @ 21
2		15		REC	CC1 TO MH1					
3		15		REC	CC1 TO MH1	2 @ 21		2 @ 21		1 @ 21
4	60			REC	MH1 TO PB1					
5		60		REC	MH1 TO PB1	2 @ 66		2 @ 66		1 @ 66
6	50			REC	PB1 TO PB2					
7		50		REC	PB1 TO PB2	2 @ 56		2 @ 56		1 @ 56
8	125			REC	PB2 TO PB3					
9		125		REC	PB2 TO PB3	2 @ 131		2 @ 131		1 @ 131
10	16			REC	MH1 TO MA1					
11		35		REC	MA1 TO PB2	2 @ 41		2 @ 41		1 @ 41
TOTAL	301	316				672		672	188	336
USE	310	320				680		680	170	340

SIGNAL POLES AND MASTARMS					
ID #	TYPE	STATION	OFFSET	LUMINAIRE MOUNTING HEIGHT	LUMINAIRE ARM
MA1	MASTARM - 35' TYPE II	90+06.30	89.48' RT	-	-

ABBREVIATIONS

MA1	MASTARM NUMBER
PP1	PEDESTAL POLE NUMBER
PPB1	PEDESTRIAN PUSH BUTTON NUMBER
CC1	CONTROL CABINET NUMBER
SC1	SPLICE CABINET NUMBER
PB1	PULL BOX NUMBER (SIGNALS)
PBS1	PULL BOX NUMBER (POWER)
3A	SIGNAL HEAD NUMBER
P1	PEDESTRIAN SIGNAL NUMBER
MH1	TRAFFIC MANHOLE NUMBER
XMA1	EXISTING MASTARM NUMBER
DLB (1)	DETECTOR LOOP PHASE # (LOOP #)

MAX	SIGNAL & CABINET ID
	CONDUIT RUN ID (SIGNALS)
	CONDUIT RUN ID (POWER SERVICE)
	CONDUIT RUN ID (INTERCONNECT)
	CONDUIT RUN ID (FLASHER)

20 0 10 20 40
SCALE 1"=20'

2165 LOUISIANA BLVD., NE
SUITE 1000
ALBUQUERQUE, NM 87110
PHONE (505) 255-5400
FAX (505) 255-0854

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Many Solutions

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION

Design Review Committee	City Engineer Approval	Last Date Design Updated	Revised On	Revised By
City Project No. 7699-91		Zone Map No. K10. L10	Sheet 59	Of 82

C:\Users\jsh11\Documents\Projects\76999\Drawings\76999-01.dwg
Drawing Name: P:\1999-01.dwg
Drawing Date: 11/11/2009
Drawing Author: jsh11
Drawing Title: 76999-01.dwg

PERMANENT SIGNING & STRIPING QUANTITIES (ESTIMATED)				
ITEM NUMBER	ITEM	UNIT	UNSER BLVD	USE
441.001	RETROREFLECTORIZED PLASTIC PAVEMENT STRIPE 4"	LF	26090.00	26090
441.002	RETROREFLECTORIZED PLASTIC PAVEMENT STRIPE 6"	LF	11860.00	11860
441.003	RETROREFLECTORIZED PLASTIC PAVEMENT STRIPE 8"	LF	2260.00	2260
441.004	RETROREFLECTORIZED PLASTIC PAVEMENT STRIPE 12"	LF	2040.00	2040
441.005	RETROREFLECTORIZED PLASTIC PAVEMENT STRIPE 24"	LF	1470.00	1470
441.010	RETROREFLECTORIZED PLASTIC RIGHT ARROW	EA	10.00	10
441.011	RETROREFLECTORIZED PLASTIC LEFT ARROW	EA	22.00	22
441.020	RETROREFLECTORIZED WORD "ONLY"	EA	16.00	16
441.031	RETROREFLECTORIZED SYMBOL BICYCLE, CIP	EA	22.00	22
443.101	REMOVAL OF PAVEMENT STRIPE	LF	21675.00	21675
443.102	REMOVAL OF PAVEMENT MARKING, WORD & SYMBOL	EA	25.00	25
450.001	ALUMINUM PANEL SIGN	SF	200.00	200
450.010	8 SQUARE TUBE POST	LF	448.50	449
450.101	SIGN & POST, REMOVE AND SALVAGE	EA	24.00	24
450.102	SIGN & POST, REMOVE AND RELOCATE	EA	10.00	10

2001 LORRAINE BLVD., NE
SUITE 100
ALBUQUERQUE, NM 87110
PHONE: (505) 263-0000
FAX: (505) 263-0001



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CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION

TITLE: UNSER BLVD. IMPROVEMENTS - SAGE TO CENTRAL
PERMANENT SIGNING & STRIPING QUANTITIES

Design Review Committee

City Engineer Approval

10/26/2009
10/26/2009

City Project No. 76999.91

Zone Map No. K10, L10

Sheet 61 of 82

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	

Date: Jan 12, 2011 -- 11:31am b10res Layout: 745501PS02
Drawing Name: P:\19094 COA DRAINAGE OnCall\SW ABQ Streets\6.0 PDEV\6.1 CADD\6.1.5 Plans\ASBUILTS\8 Striping-Signing Sheets\745501PS02A.dwg

PERMANENT SIGNING & STRIPING QUANTITIES (ESTIMATED)				
ITEM NUMBER	ITEM	UNIT	UNSER BLVD	USE
441.001	RETROREFLECTORIZED PLASTIC PAVEMENT STRIPE 4"	LF	33860.00	33860
441.002	RETROREFLECTORIZED PLASTIC PAVEMENT STRIPE 6"	LF	11560.00	11560
441.003	RETROREFLECTORIZED PLASTIC PAVEMENT STRIPE 8"	LF	1320.00	1320
441.004	RETROREFLECTORIZED PLASTIC PAVEMENT STRIPE 12"	LF	2450.00	2450
441.005	RETROREFLECTORIZED PLASTIC PAVEMENT STRIPE 24"	LF	1890.00	1890
441.010	RETROREFLECTORIZED PLASTIC RIGHT ARROW	EA	10.00	10
441.011	RETROREFLECTORIZED PLASTIC LEFT ARROW	EA	22.00	22
441.020	RETROREFLECTORIZED WORD "ONLY"	EA	16.00	16
441.031	RETROREFLECTORIZED SYMBOL BICYCLE, CIP	EA	22.00	22
443.101	REMOVAL OF PAVEMENT STRIPE	LF	21675.00	21675
443.102	REMOVAL OF PAVEMENT MARKING, WORD & SYMBOL	EA	25.00	25
450.001	ALUMINUM PANEL SIGN	SF	200.00	200
450.010	SQUARE TUBE POST	LF	448.50	449
450.101	SIGN & POST, REMOVE AND SALVAGE	EA	24.00	24
450.102	SIGN & POST, REMOVE AND RELOCATE	EA	10.00	10

2155 LOUISIANA BLVD., NE
SUITE 800
ALBUQUERQUE, NM 87110
MAIN: (505) 830-5400
FAX: (505) 830-5454



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ENGINEERING INC.



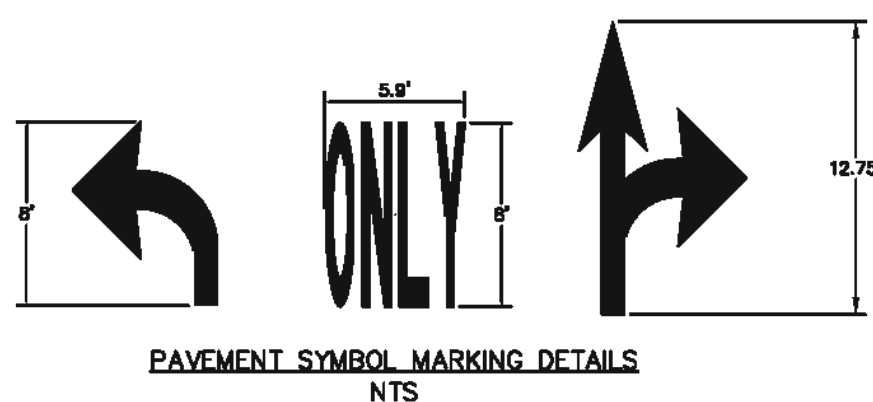
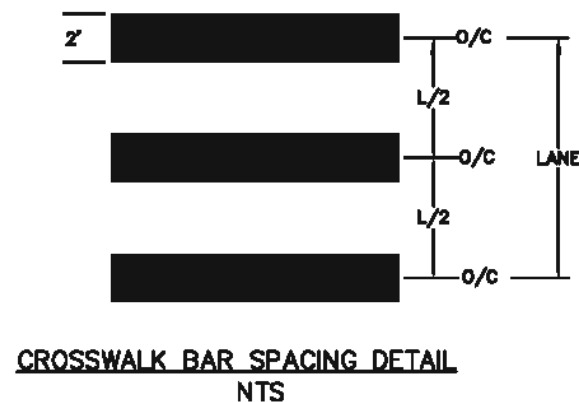
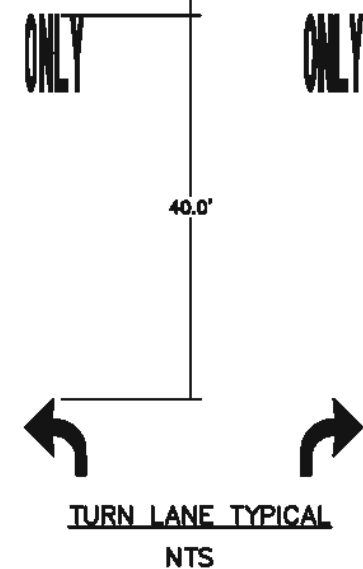
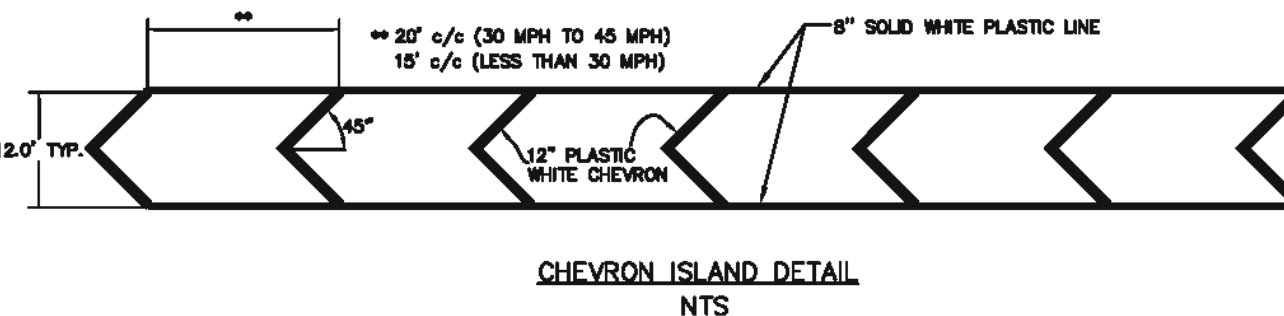
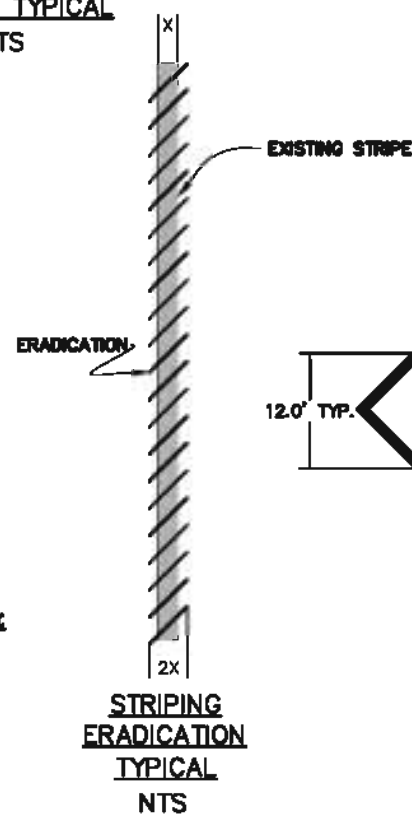
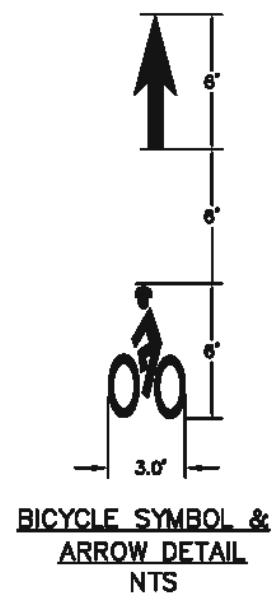
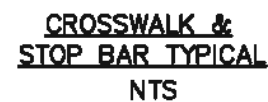
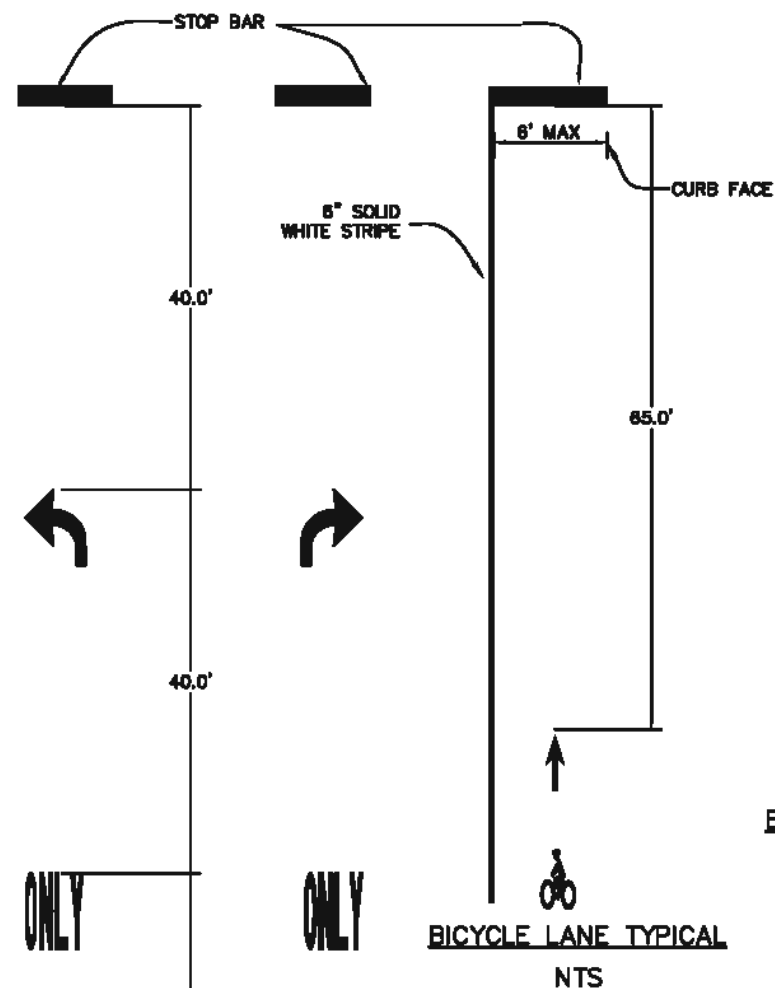
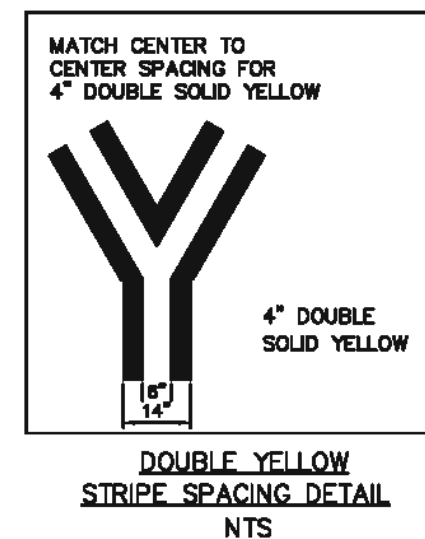
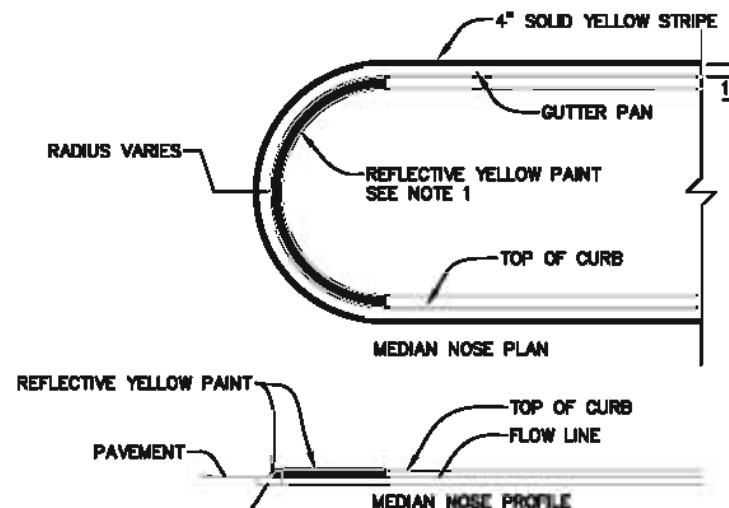
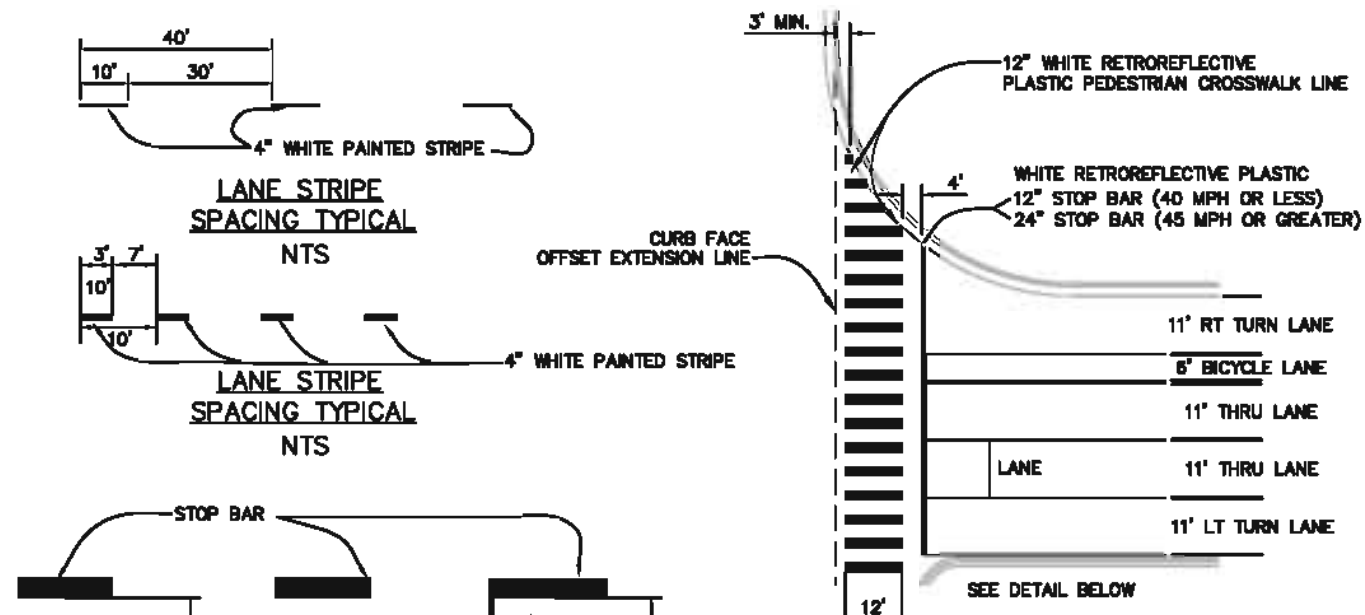
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION

TITLE: UNSER BLVD. IMPROVEMENTS - SAGE TO CENTRAL
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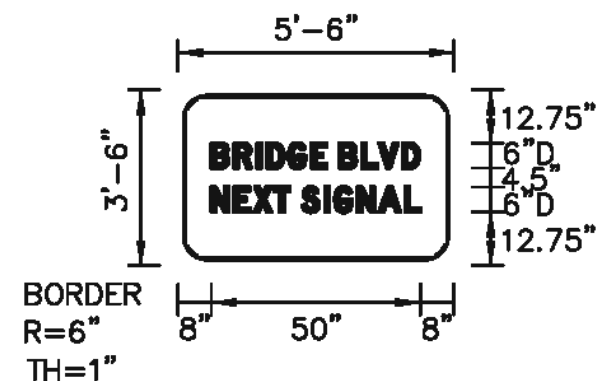
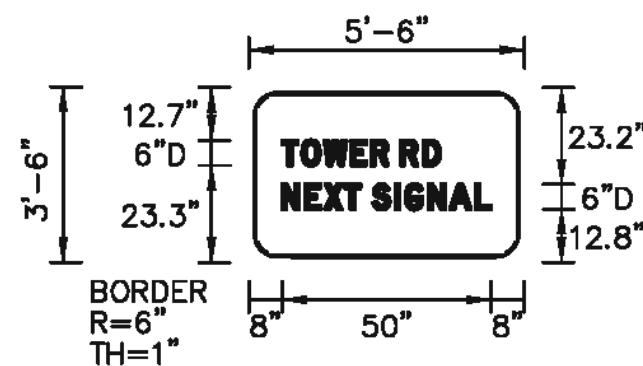
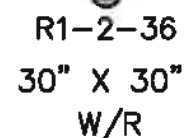
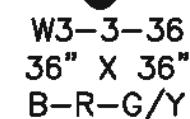
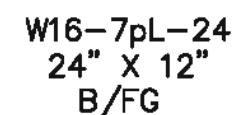
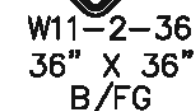
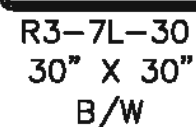
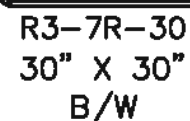
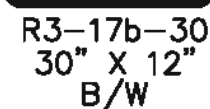
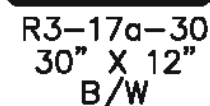
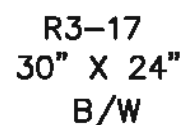
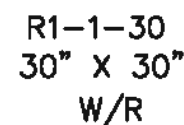
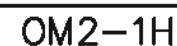
Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	

City Project No.	7699.91	Zone Map No.	K10, L10	Sheet	61A	Of	82
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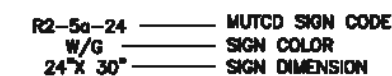
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				WORK STAKED BY	DATE 12/08
				INSPECTOR'S	DATE 12/08
				CONCRETE CURB IN THE SOUTHWEST	DATE 12/08
				QUADRANT, NORTHEAST NOSE OF	DATE 12/08
				TRAFFIC CONTROL ISLAND AT THE	DATE 07/10
				INTERSECTION OF TOWER ROAD SW.	DATE 07/10
				AND UNSER BOULEVARD SW. SECOND	DATE
				ORDER, FIRST CLASS NGVD29	
				NO.	

[illegible]

FOR PERMANENT SIGNING



SIGN LEGEND

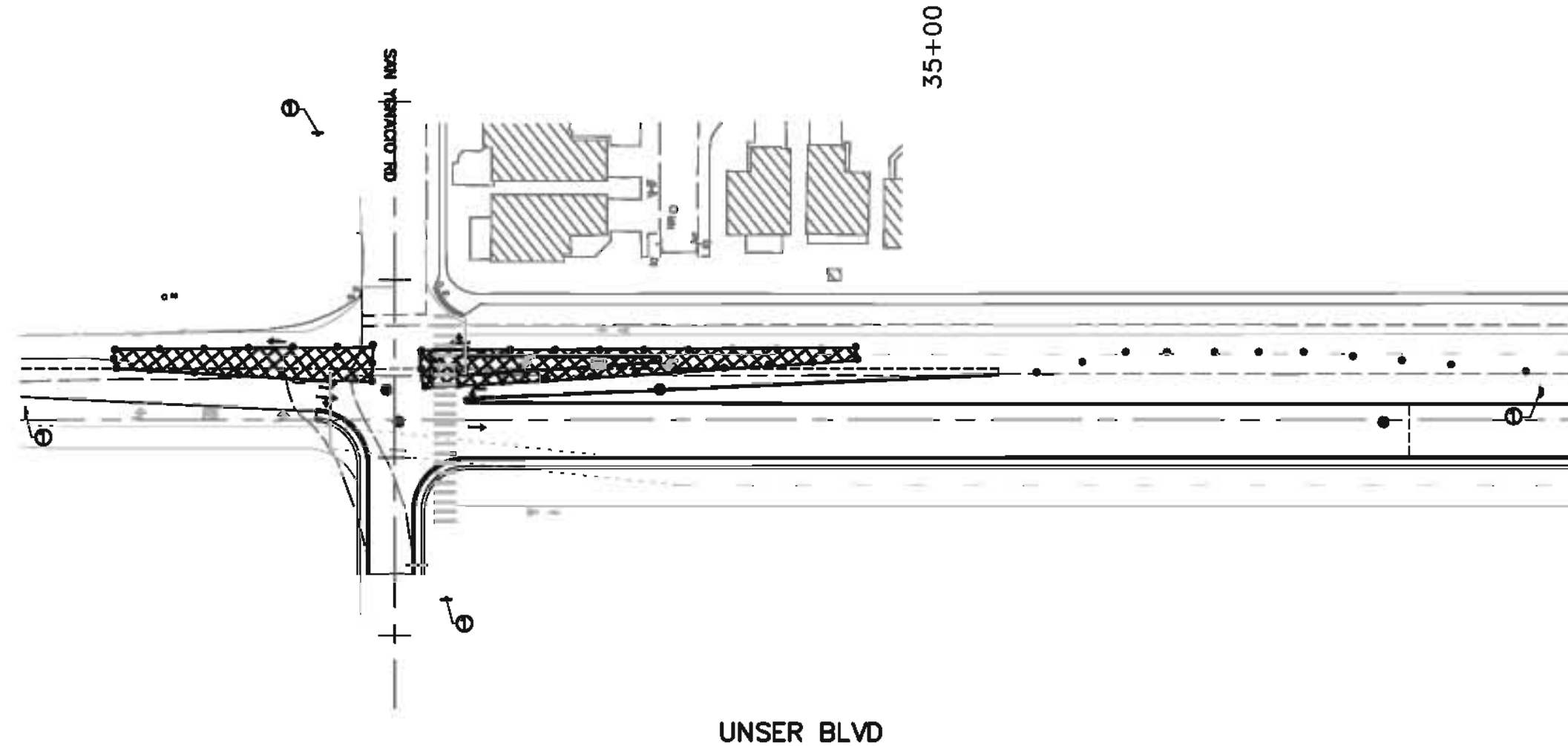


SIGN LEGEND

(LEGEND/BACKGROUND)

W - WHITE B - BLACK R - RED
Y - YELLOW BL - BLUE G - GREEN
O - ORANGE BR - BROWN S - SILVER

2405 LOURNAIA BLVD., NE SUITE 200 ALBUQUERQUE, NM 87119 (505) 263-8000 FAX (505) 263-8004	 HDR ENGINEERING INC.	ONE COMPANY <i>Many Solutions</i>	NO.	DATE	DESIGNED BY	DRAWN BY
 CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT TRANSPORTATION DEVELOPMENT DIVISION						
TITLE: UNSER BLVD. IMPROVEMENTS - SAGE TO CENTRAL PERMANENT SIGN FACE DETAILS						
Design Review Committee	City Engineer Approval	1 2 3 4 5	15/15/25	15/15/25		
City Project No. 7699.91	Zone Map No. K10. L10	Sheet 67 Of 82				



KEYED NOTES

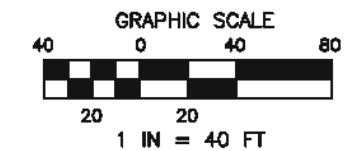
- SEE THE TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES COA SPECIFICATIONS UPDATE 7 FOR ADVANCED CONSTRUCTION ZONE SIGNING.
- USE THE TAPER REQUIREMENT TABLE FOR TAPER LENGTH ON THE SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS, COA SPECIFICATIONS UPDATE 7.

NOTES:

- A) CONFLICTING SIGNS WILL BE COVERED UP

LEGEND:

- CONSTRUCTION WORK ZONE
- TYPE III BARRICADE
- TEMPORARY PANEL SIGN
- TRAFFIC FLOW
- CHANNELIZING DEVICES

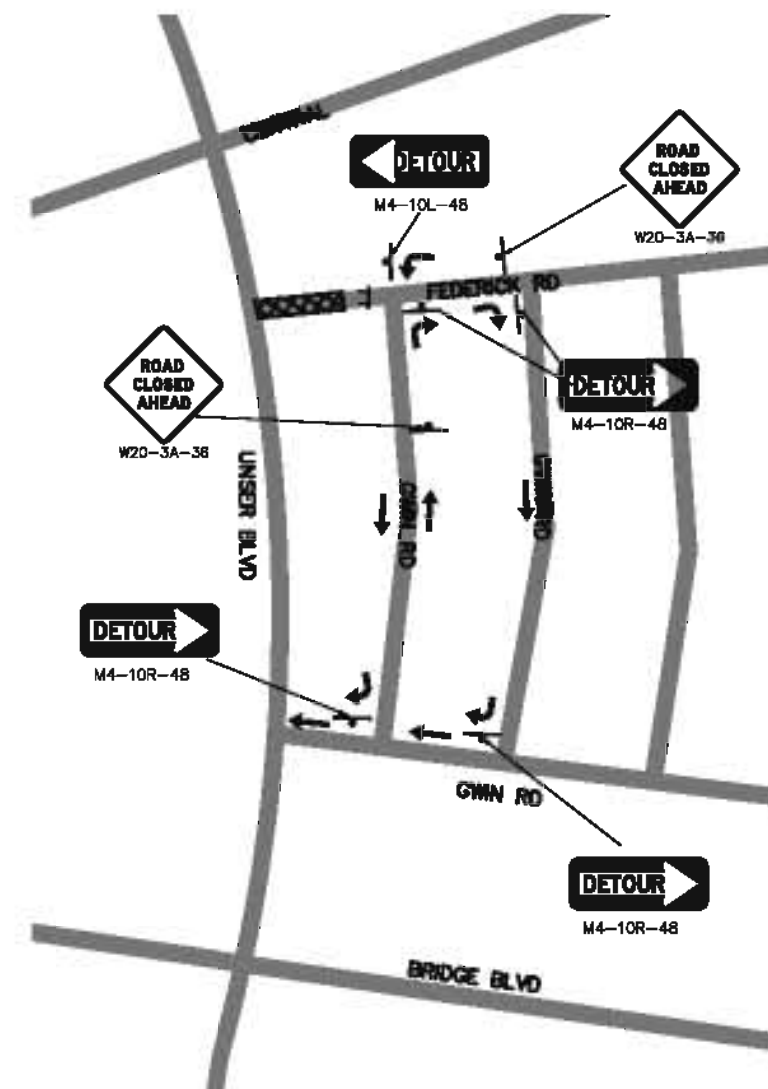
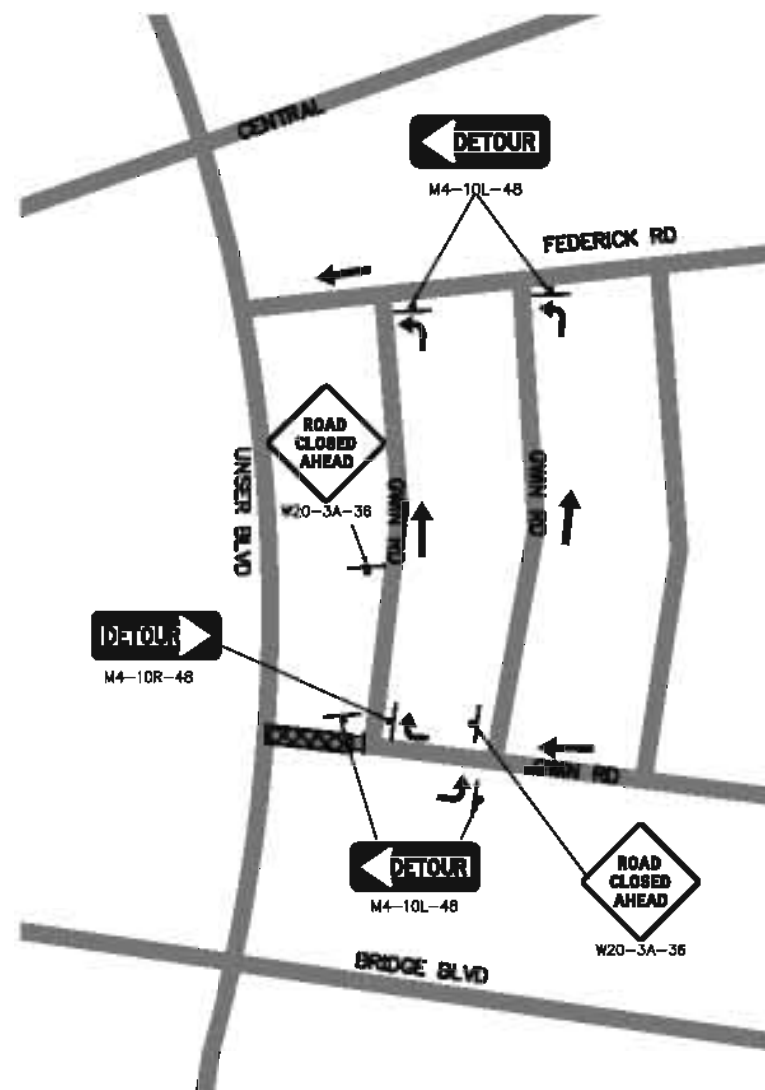
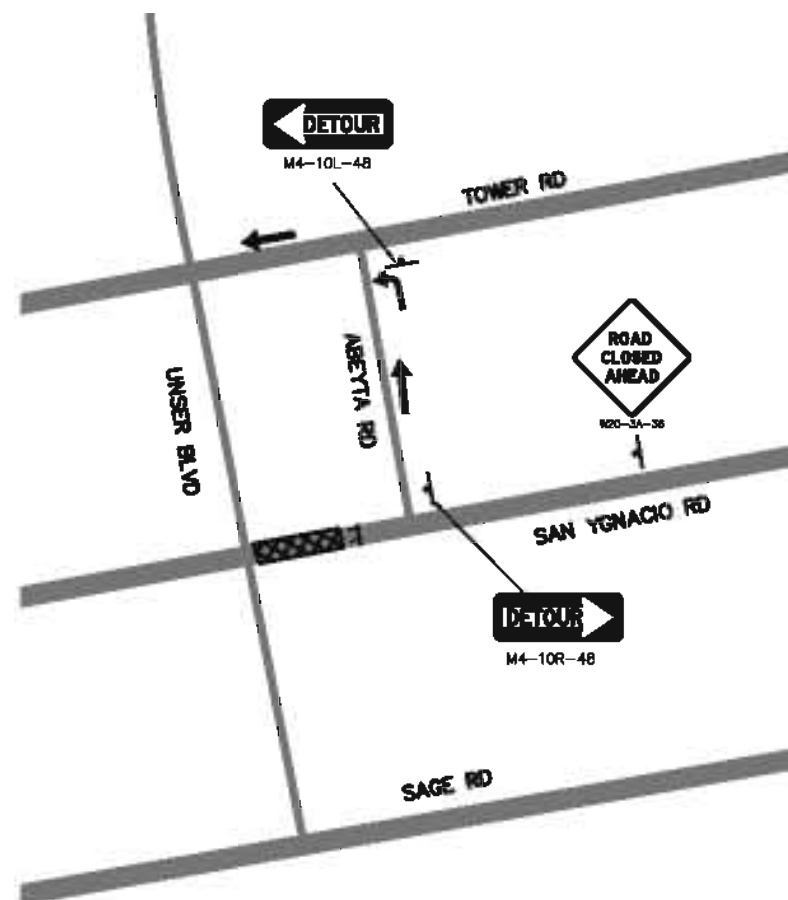


ONE COMPANY
HDR
ENGINEERING INC.

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION
TITLE: UNSER BLVD. IMPROVEMENTS - SAGE TO CENTRAL
MEDIAN CONSTRUCTION SIGNING - PHASE IIA

Design Review Committee	City Engineer Approval	10/20/07	10/20/07
City Project No. 7699.91	Zone Map No. K10, L10	Sheet 72	Of 82

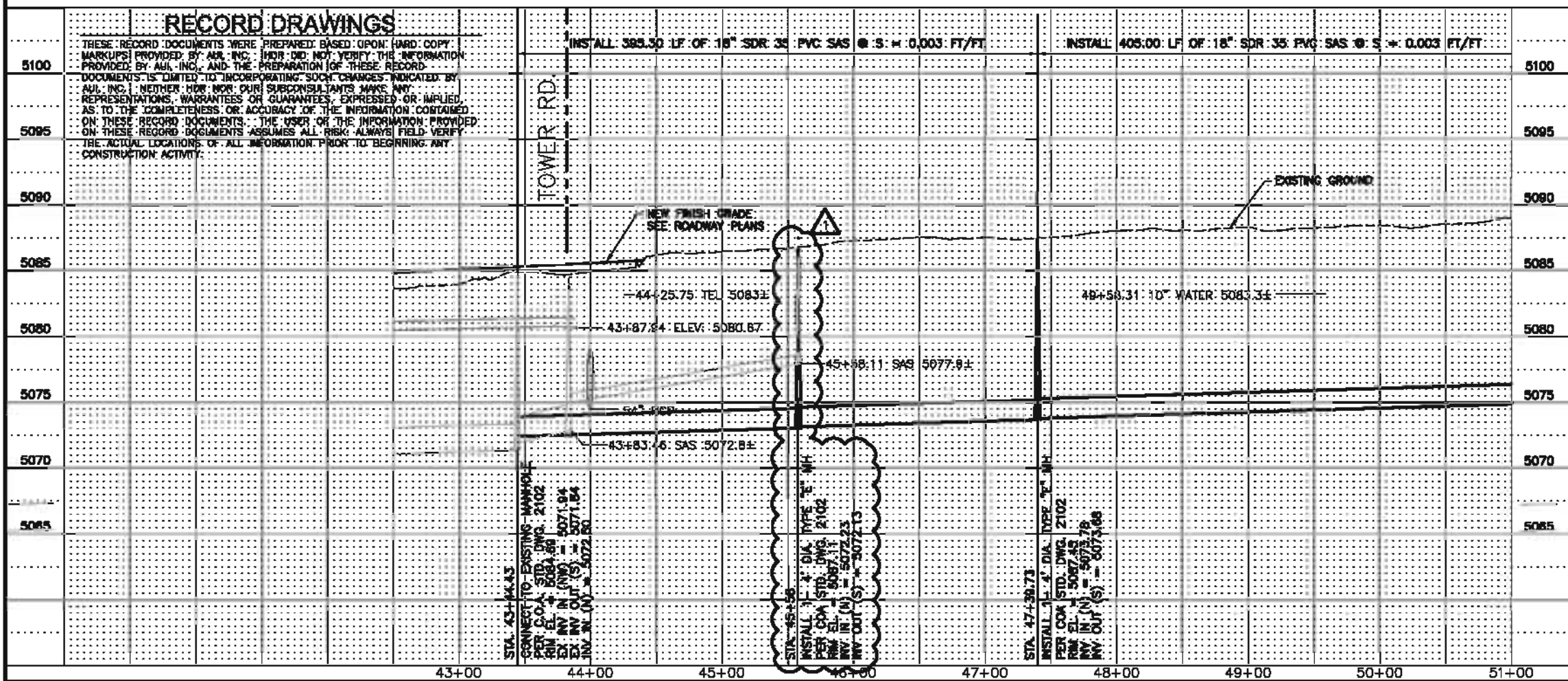
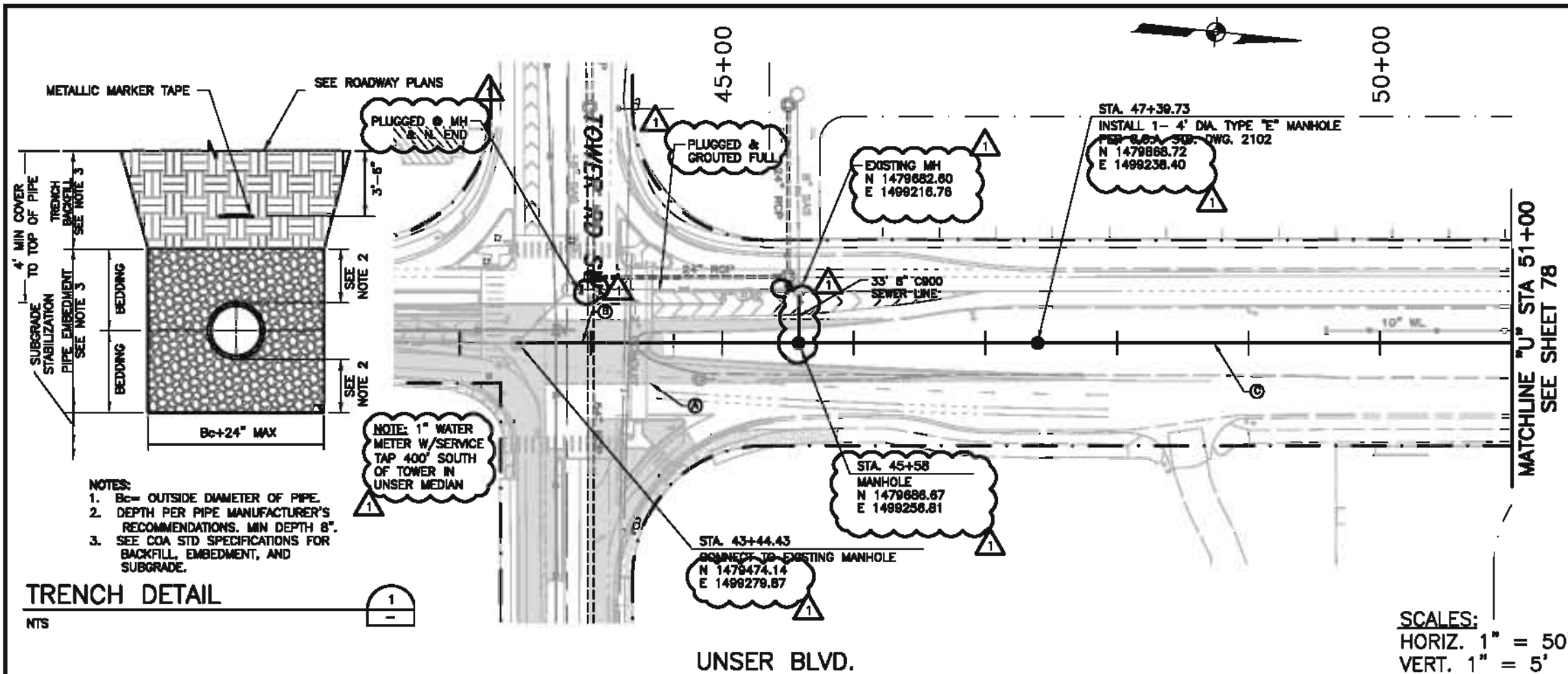
SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
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		"10-L10", set flush on top of		DESIGNED BY	DATE 10/08
		concrete curb in the Southwest		DRAWN BY	DATE 10/08
		quadrant, Northeast nose of		CHECKED BY	DATE 10/08
		traffic control island at the		REVIEWED BY	DATE 10/08
		intersection of Tower Road SW.		MICRO-FILM INFORMATION	
		and Unser Boulevard SW. Second		RECORDED BY	DATE
		Order, First Class NGVD29			



FOR INFORMATION PURPOSES ONLY NOT TO SCALE

2405 LUMBANA BLVD., SUITE 100 ALBUQUERQUE, NM 87111 (505) 263-8200 FAX (505) 263-0241				ONE COMPANY <i>Many Solutions</i>		NO. DA		DESIGNED BY DRAWN BY CHECKED BY	
 CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT TRANSPORTATION DEVELOPMENT DIVISION									
TITLE: UNSER BLVD. IMPROVEMENTS - SAGE TO CENTRAL CONSTRUCTION DETOUR SIGNING — PHASE A									
Design Review Committee		City Engineer Approval		11/15/2011		11/15/2011			
City Project No. 7699.91		Zone Map No. K10, L10		Sheet 76 Of 82					

		ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
				FIELD NOTES		ACS 3/4" aluminum cap, stamped		CONTRACTOR	
				BY		"10-L10", set flush on top of		DATE 12/03	
				NO.		concrete curb in the Southwest		DATE 12/03	
						quadrant, Northeast nose of		DATE 12/03	
						traffic control island at the		DATE 12/03	
						Intersection of Tower Road SW.		DATE 07/03	
						and Unser Boulevard SW. Second		MICRO-FILM INFORMATION	
						Order, First Class NGVD29		RECORDED BY	
								DATE	
								MCL	



RECORD DRAWINGS

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CONSTRUCTION KEYED NOTES:

- ① EDGE OF NEW ASPHALT ROADWAY. SEE ROADWAY PLANS.
- ② NEAT SAWCUT EXISTING PAVEMENT AND REMOVE AND REPLACE ASPHALT PAVEMENT AND /OR CURB & GUTTER FOR SEWER INSTALLATION PER SECTION ON ROADWAY PLANS. SEE ROADWAY PLANS.
- ③ REMOVE AND REPLACE MEDIAN IN KIND FOR SEWER INSTALLATION.

GENERAL NOTES:

- 1. INSTALL 18" PVC SAS PIPE PER TRENCH DETAIL.
- 2. CONTRACTOR TO COAT INTERIOR OF NEW AND EXISTING MANHOLES PER COA SPECIFICATION SECTION 920.

ENGINEER'S SEAL

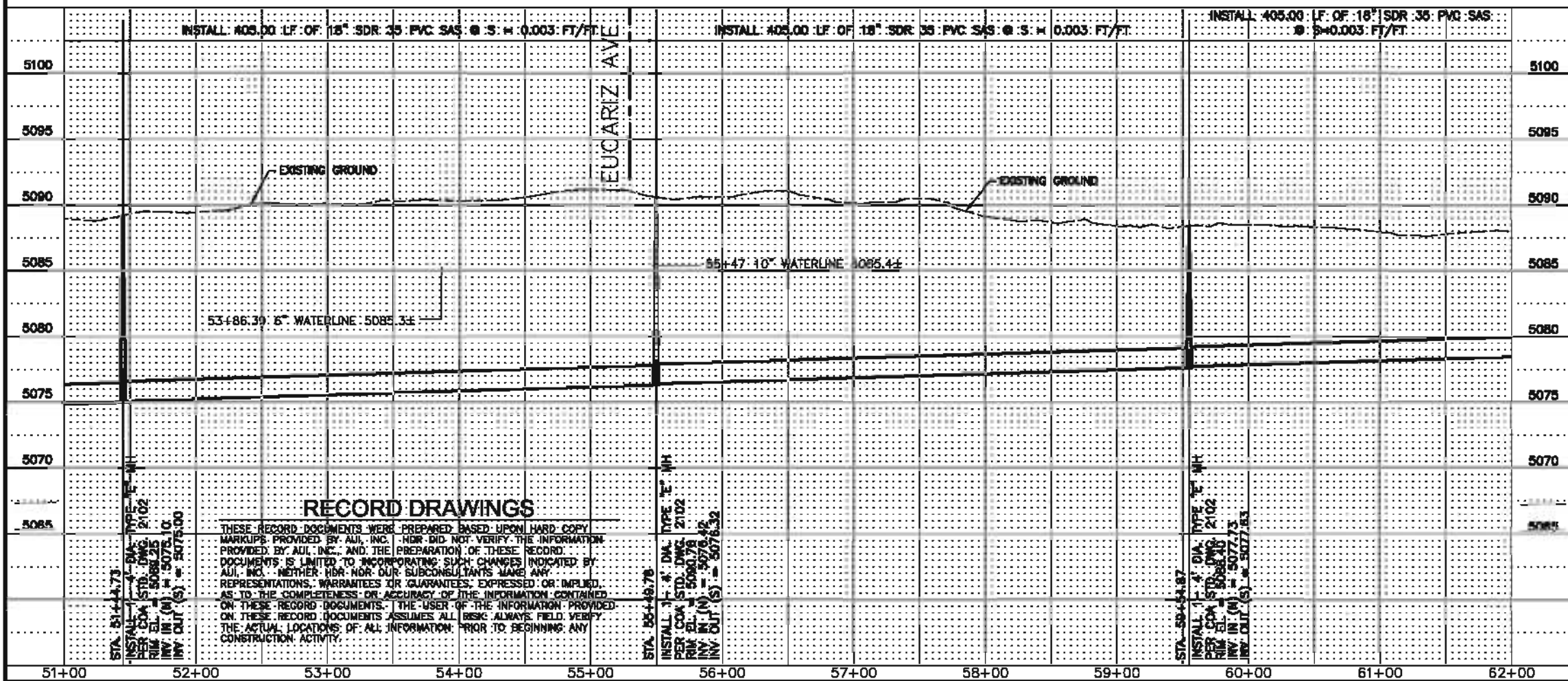
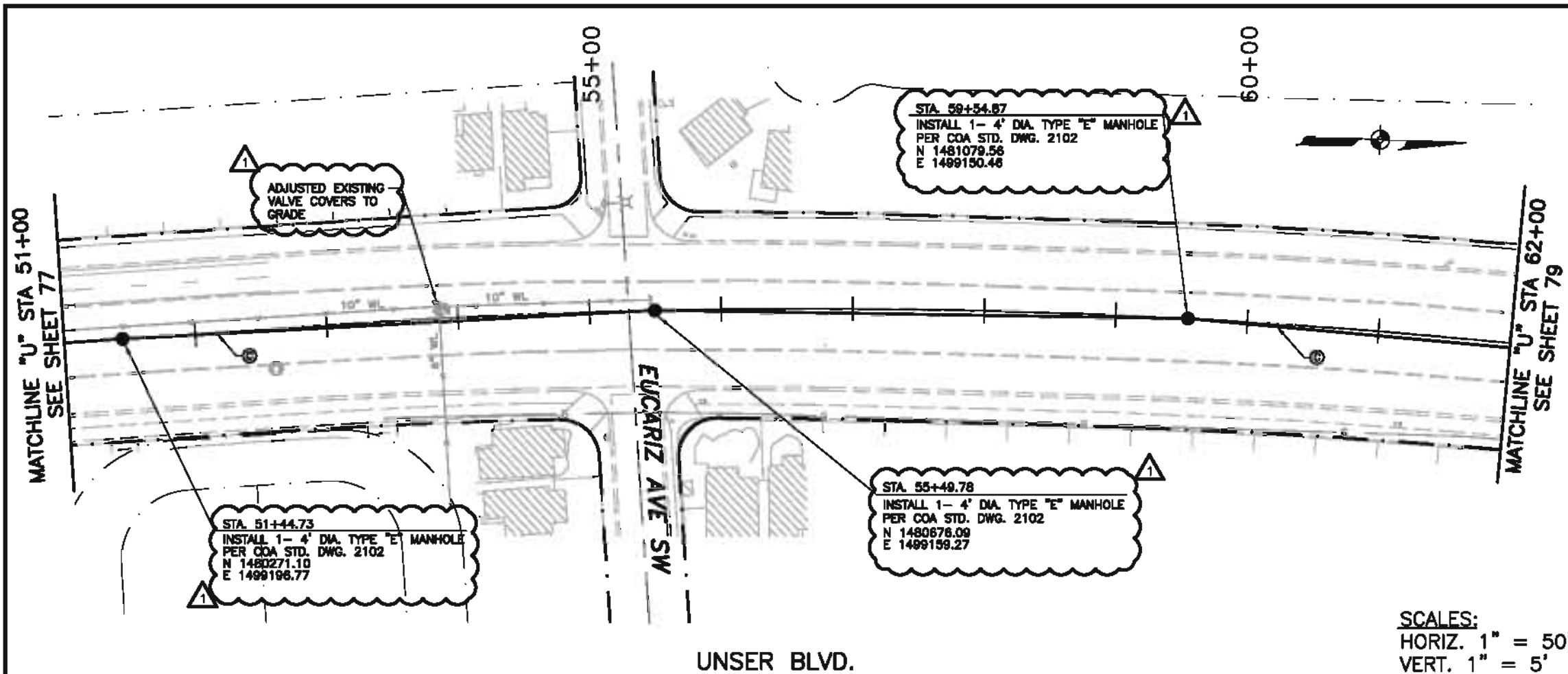
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CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION

TITLE: UNSER BLVD. IMPROVEMENTS - SAGE TO CENTRAL UNSER SAS P&P: STA 43+44.43 TO 51+00

Design Review Committee City Engineer Approval

City Project No. **7699.91** Zone Map No. **K10, L10** Sheet **77** Of **82**



CONSTRUCTION KEYED NOTES:

- ① EDGE OF NEW ASPHALT ROADWAY. SEE ROADWAY PLANS.
- ② NEAT SAWCUT EXISTING PAVEMENT AND REMOVE AND REPLACE ASPHALT PAVEMENT AND /OR CURB & GUTTER FOR SEWER INSTALLATION PER SECTION ON ROADWAY PLANS. SEE ROADWAY PLANS.
- ③ REMOVE AND REPLACE MEDIAN IN KIND FOR SEWER INSTALLATION.

GENERAL NOTES:

- INSTALL 18" PVC SAS PIPE PER TRENCH DETAIL.
- CONTRACTOR TO COAT INTERIOR OF NEW AND EXISTING MANHOLES PER COA SPECIFICATION SECTION 920.

RECORD DRAWINGS

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ENGINEER'S SEAL

DESIGNED BY: ED/RG
DRAWN BY: RG
CHECKED BY: RL

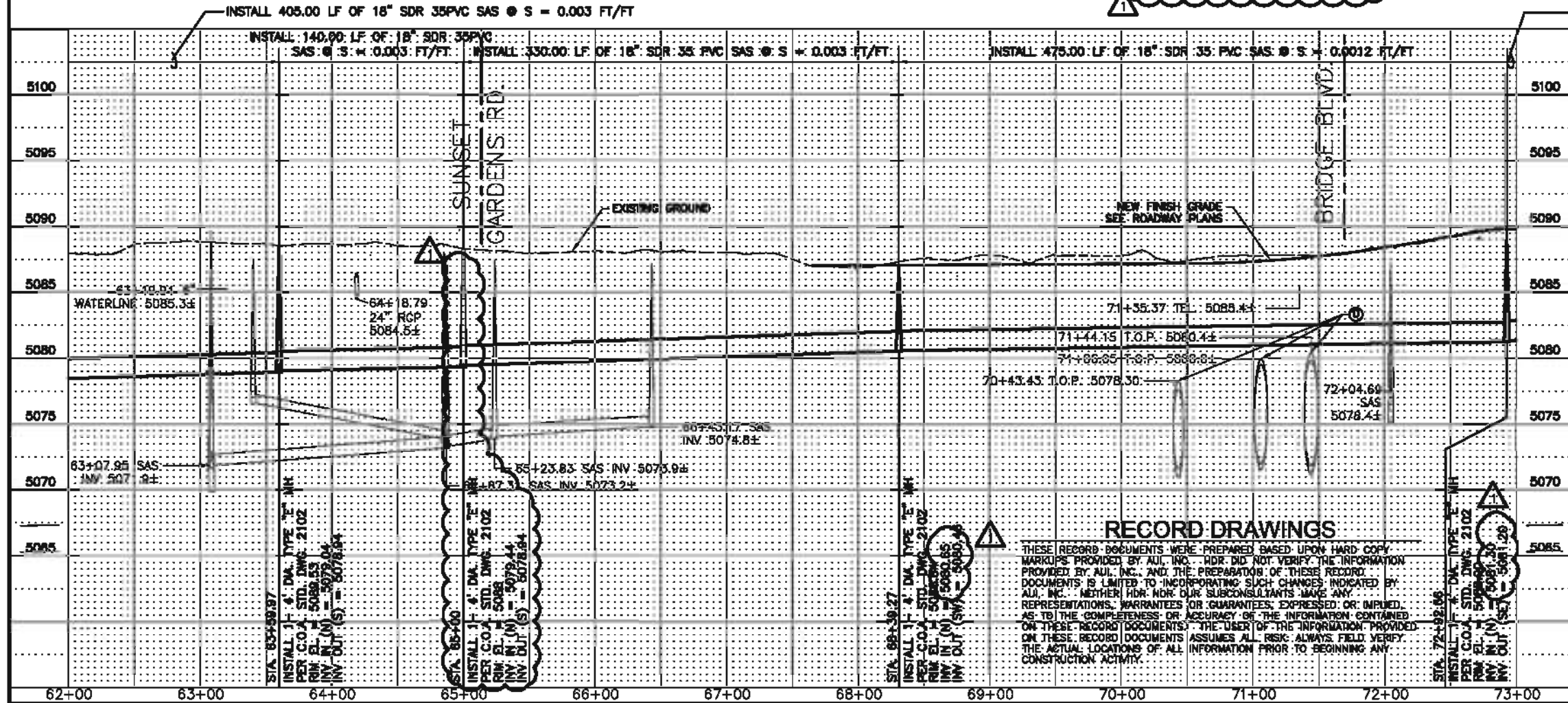
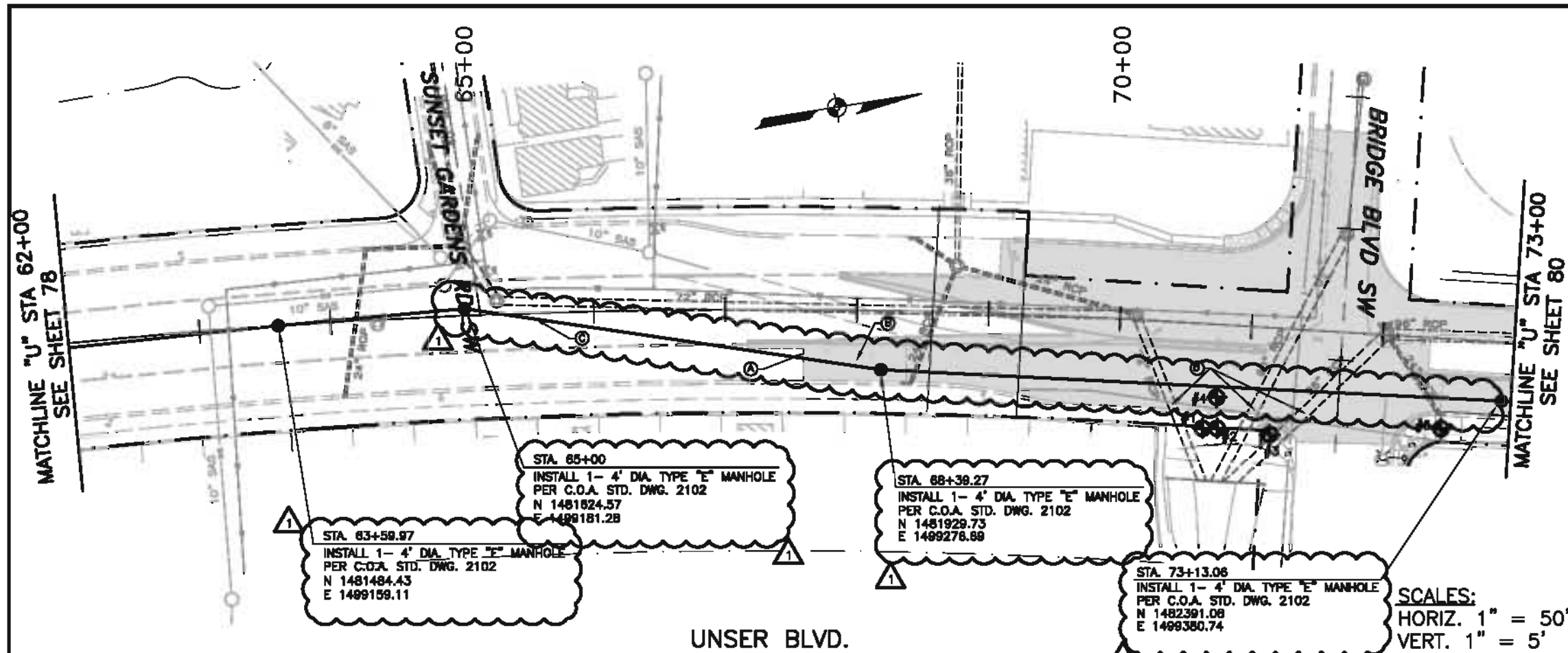
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DATE: 3/21/2007
DATE: 3/21/2007

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION

TITLE: UNSER BLVD. IMPROVEMENTS - SAGE TO CENTRAL UNSER SAS P&P: STA 51+00 TO 62+00

Design Review Committee City Engineer Approval

City Project No. **7699.91** Zone Map No. **K10, L10** Sheet **78** Of **82**



- CONSTRUCTION KEYED NOTES:**
- EDGE OF NEW ASPHALT ROADWAY. SEE ROADWAY PLANS.
 - NEAT SAWCUT EXISTING PAVEMENT AND REMOVE AND REPLACE ASPHALT PAVEMENT AND /OR CURB & GUTTER FOR SEWER INSTALLATION PER SECTION ON ROADWAY PLANS. SEE ROADWAY PLANS.
 - REMOVE AND REPLACE MEDIAN IN KIND FOR SEWER INSTALLATION.
 - CONTRACTOR TO FIELD VERIFY EXISTING STORM DRAIN LINES DEPTH AND LOCATIONS PRIOR TO CONSTRUCTION AND NOTIFY PROJECT ENGINEER OF ANY CONFLICTS. ANY NECESSARY PIPE MODIFICATIONS CAUSED BY THIS CONFLICT (INCLUDING BOTH HORIZONTAL AND VERTICAL ALIGNMENTS) SHALL BE CONSTRUCTED AT NO ADDITIONAL COST TO THE OWNER.

POTHOLE DATA

POTHOLE #	TYPE	DIAMETER	APPROX. DEPTH TO TOP
1	SD	72"	117"
2	SD	90"	100"
3	SD	96"	90"
4	G	3"	83"
5	G	3"	65"

SCALES:
HORIZ. 1" = 50'
VERT. 1" = 5'

INSTALL 414.46 LF OF 18" PVC SAS @ S=0.0012 FT/FT

- GENERAL NOTES:**
- INSTALL 18" PVC SAS PIPE PER TRENCH DETAIL.
 - CONTRACTOR TO COAT INTERIOR OF NEW AND EXISTING MANHOLES PER COA SPECIFICATION SECTION 920.



CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION
TITLE: UNSER BLVD. IMPROVEMENTS - SAGE TO CENTRAL
UNSER SAS P&P: STA 62+00 TO 73+00

Design Review Committee City Engineer Approval

City Project No. 7699.91 Zone Map No. K10, L10 Sheet 79 of 82

AS BUILT INFORMATION

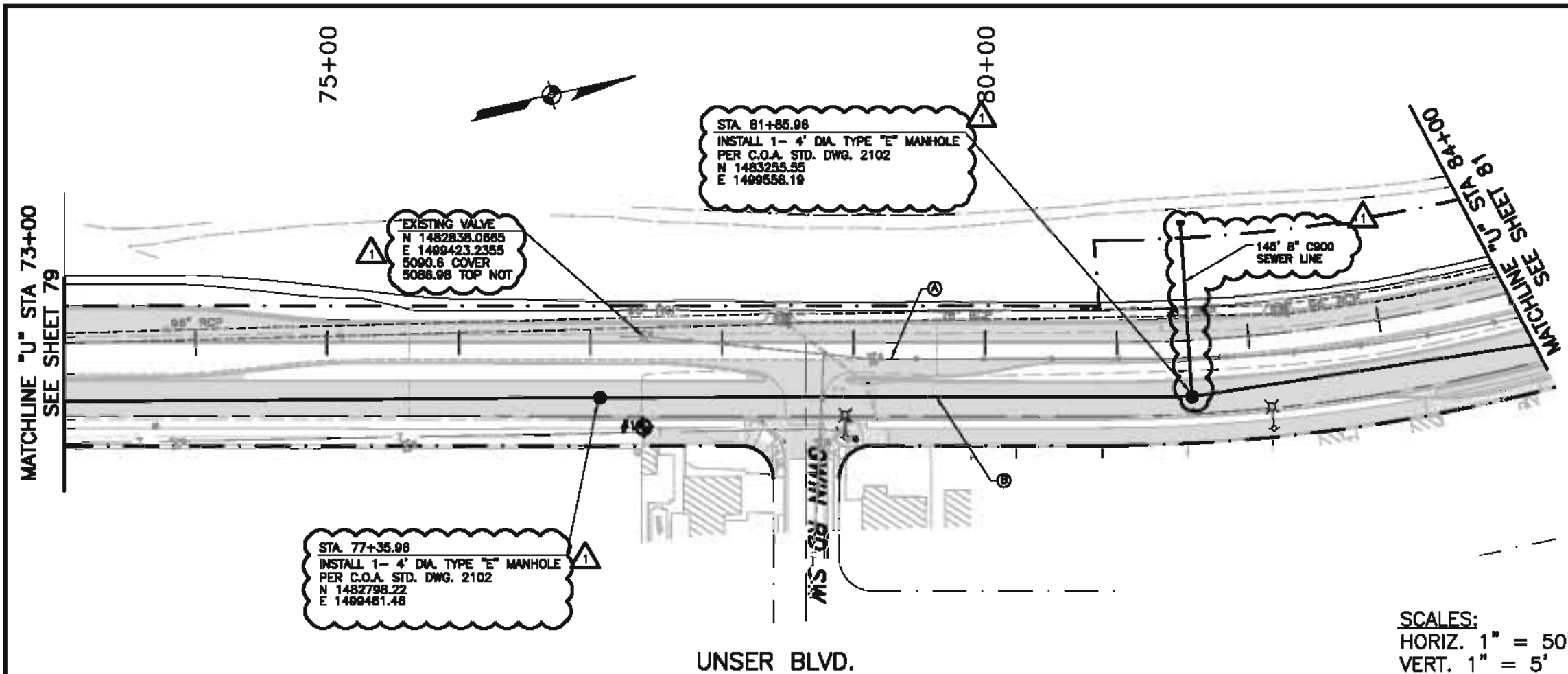
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DATE	BY	REVISIONS
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DATE	BY	REVISIONS
DATE	BY	REVISIONS

ENGINEER'S SEAL

DESIGNED BY: ED/RG DATE: 3/21/2007
DRAWN BY: RG DATE: 3/21/2007
CHECKED BY: RL DATE: 3/21/2007

RECORD DRAWINGS

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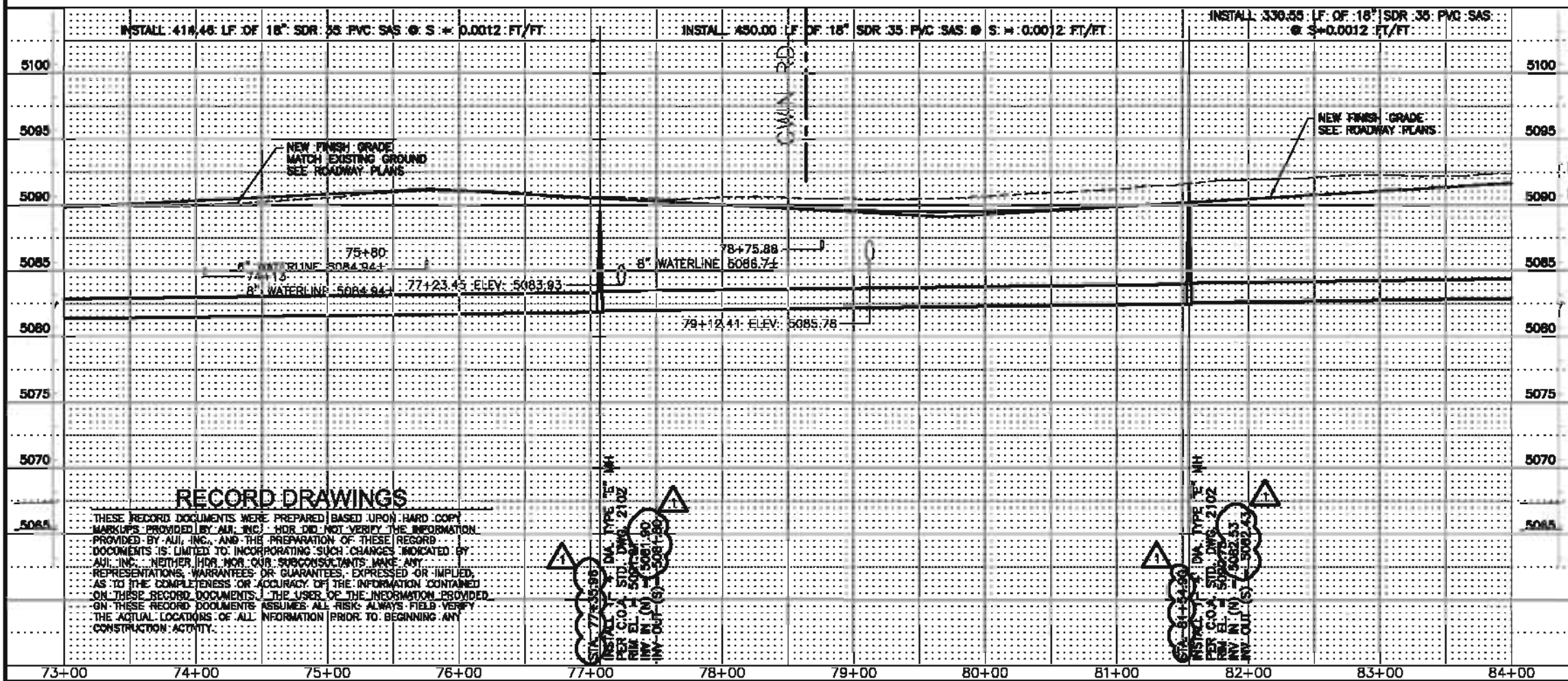
CONSTRUCTION KEYED NOTES:

- ① EDGE OF NEW ASPHALT ROADWAY. SEE ROADWAY PLANS.
- ② NEAT SAWCUT EXISTING PAVEMENT AND REMOVE AND REPLACE ASPHALT PAVEMENT AND /OR CURB & GUTTER FOR SEWER INSTALLATION PER SECTION ON ROADWAY PLANS. SEE ROADWAY PLANS.

POTHOLE DATA

POTHOLE #	TYPE	DIAMETER	APPROX. DEPTH TO TOP
1	G	3"	50"

SCALES:
HORIZ. 1" = 50'
VERT. 1" = 5'



GENERAL NOTES:

- 1. INSTALL 18" PVC SAS PIPE PER TRENCH DETAIL.
- 2. CONTRACTOR TO COAT INTERIOR OF NEW AND EXISTING MANHOLES PER COA SPECIFICATION SECTION 920.
- 3. REFER TO BHI AS-BUILT PLANS FOR WATERLINE INFORMATION (GWIN TO CENTRAL).
- 4. REFER CITY OF ALBUQUERQUE PROJECT 771402 FOR MEDIAN LANDSCAPING EQUIPMENT INSTALLATION (GWIN TO CENTRAL).

ONE COMPANY
HDR
Engineering Inc.
Solutions

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION
TITLE: UNSER BLVD. IMPROVEMENTS - SAGE TO CENTRAL
UNSER SAS P&P: STA 73+00 TO 84+00

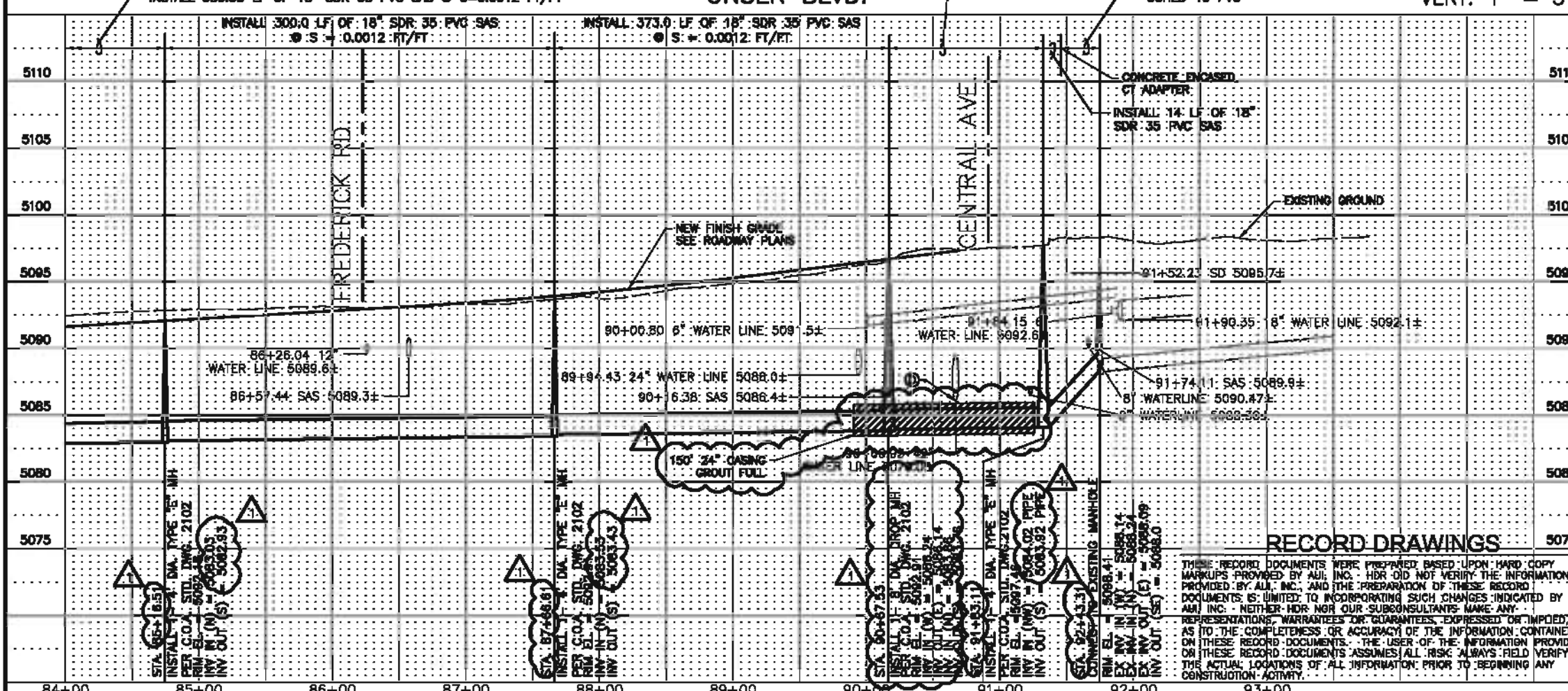
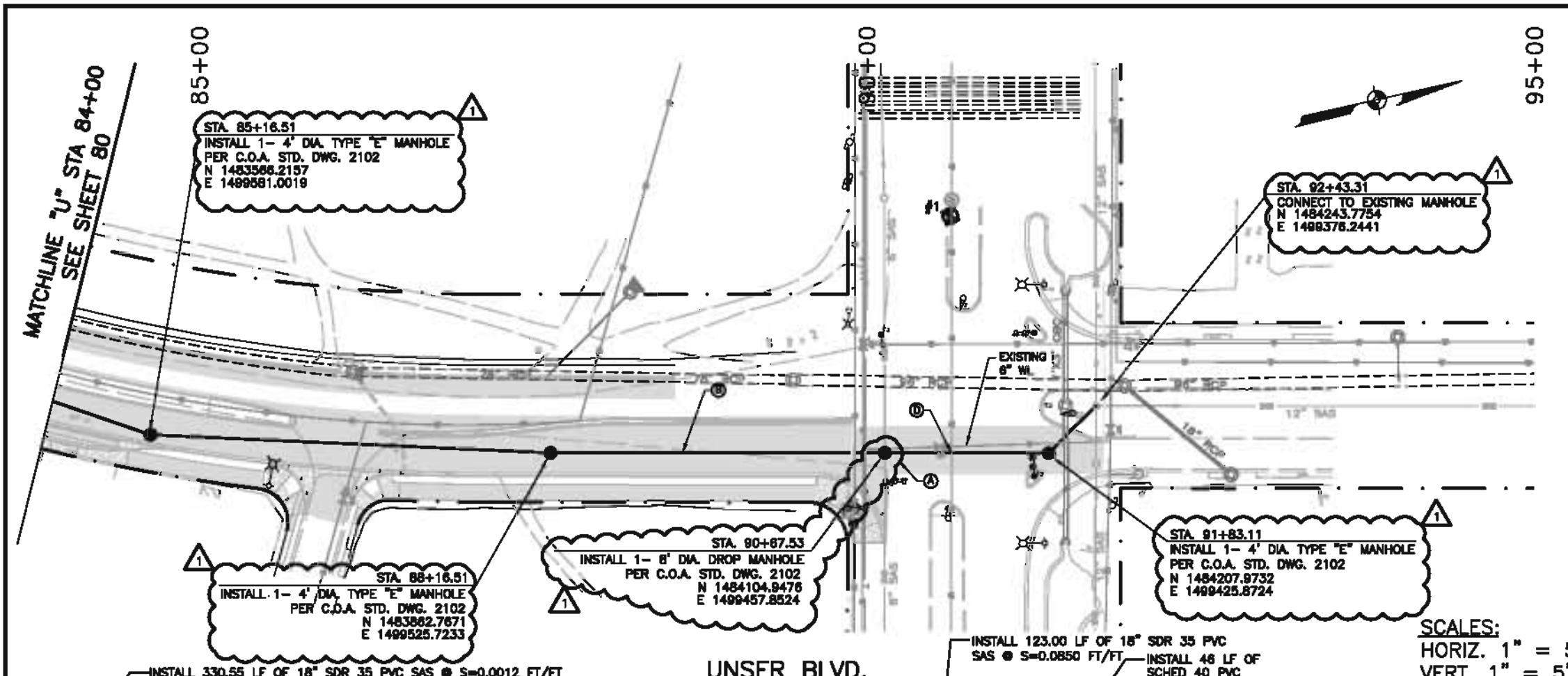
Design Review Committee	City Engineer Approval	10/26/20	10/26/20
Last Design Update			
City Project No.	Zone Map No.	Sheet	Of
7699.91	K10, L10	80	82

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	BY	DATE	DATE	CONTRACTOR	DATE

ENGINEER'S SEAL		REVISIONS	
		NO.	DATE

1	07/10	PER ABCWIA (NM)	HDR
1	07/10	PER AUI INC.	HDR

DESIGNED BY: ED/RG	DATE: 3/21/2007
DRAWN BY: RG	DATE: 3/21/2007
CHECKED BY: RL	DATE: 3/21/2007



CONSTRUCTION KEYED NOTES:

- EDGE OF NEW ASPHALT ROADWAY. SEE ROADWAY PLANS.
- NEAT SAWCUT EXISTING PAVEMENT AND REMOVE AND REPLACE ASPHALT PAVEMENT AND /OR CURB & GUTTER FOR SEWER INSTALLATION PER SECTION ON ROADWAY PLANS. SEE ROADWAY PLANS.
- NOT USED
- CONTRACTOR TO FIELD VERIFY EXISTING 42" WATER LINE DEPTH/BOTTOM OF PIPE AND LOCATION PRIOR TO CONSTRUCTION AND NOTIFY PROJECT ENGINEER OF ANY CONFLICTS. ANY NECESSARY PIPE MODIFICATIONS CAUSED BY THIS CONFLICT (INCLUDING BOTH HORIZONTAL AND VERTICAL ALIGNMENTS) SHALL BE CONSTRUCTED AT NO ADDITIONAL COST TO THE OWNER.

POTHOLE DATA

POTHOLE #	TYPE	DIAMETER	APPROX. DEPTH TO TOP
1	WL	42"	100"

GENERAL NOTES:

- INSTALL 18" PVC SAS PIPE PER TRENCH DETAIL.
- CONTRACTOR TO SUBMIT A CONSTRUCTION SEQUENCING PLAN FOR OPEN CUT UTILITY INSTALLATION FOR CENTRAL AVE. TO THE PROJECT ENGINEER PRIOR TO CONSTRUCTION.
- CONTRACTOR TO COAT INTERIOR OF NEW AND EXISTING MANHOLES PER COA SPECIFICATION SECTION 920.
- REFER TO BHI AS-BUILT PLANS FOR WATERLINE INFORMATION (GWIN TO CENTRAL).
- REFER CITY OF ALBUQUERQUE PROJECT 771402 FOR MEDIAN LANDSCAPING EQUIPMENT INSTALLATION (GWIN TO CENTRAL).

RECORD DRAWINGS

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AS BUILT INFORMATION

DATE	BY	REVISIONS
3/21/2007	ED/RB	NO. DATE
3/21/2007	RB	NO. DATE
3/21/2007	RL	NO. DATE

ENGINEER'S SEAL

DESIGNED BY: ED/RB
DRAWN BY: RB
CHECKED BY: RL

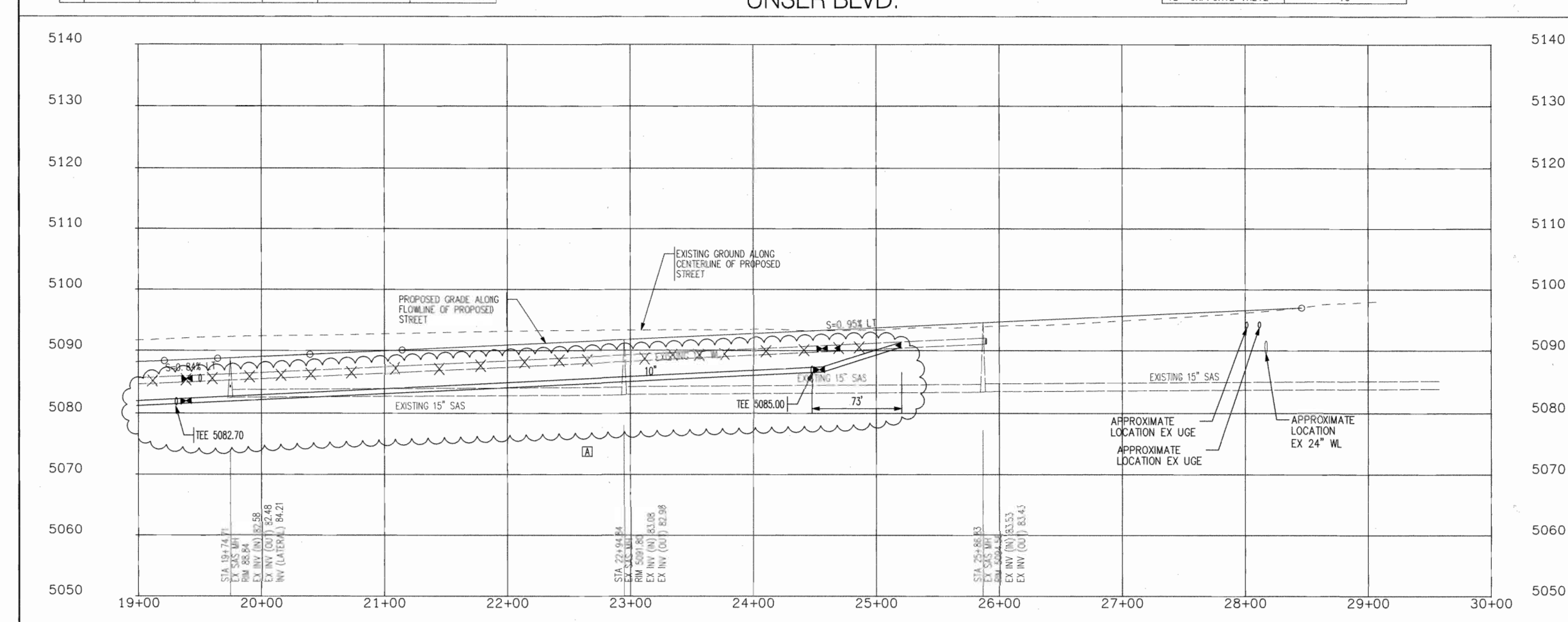
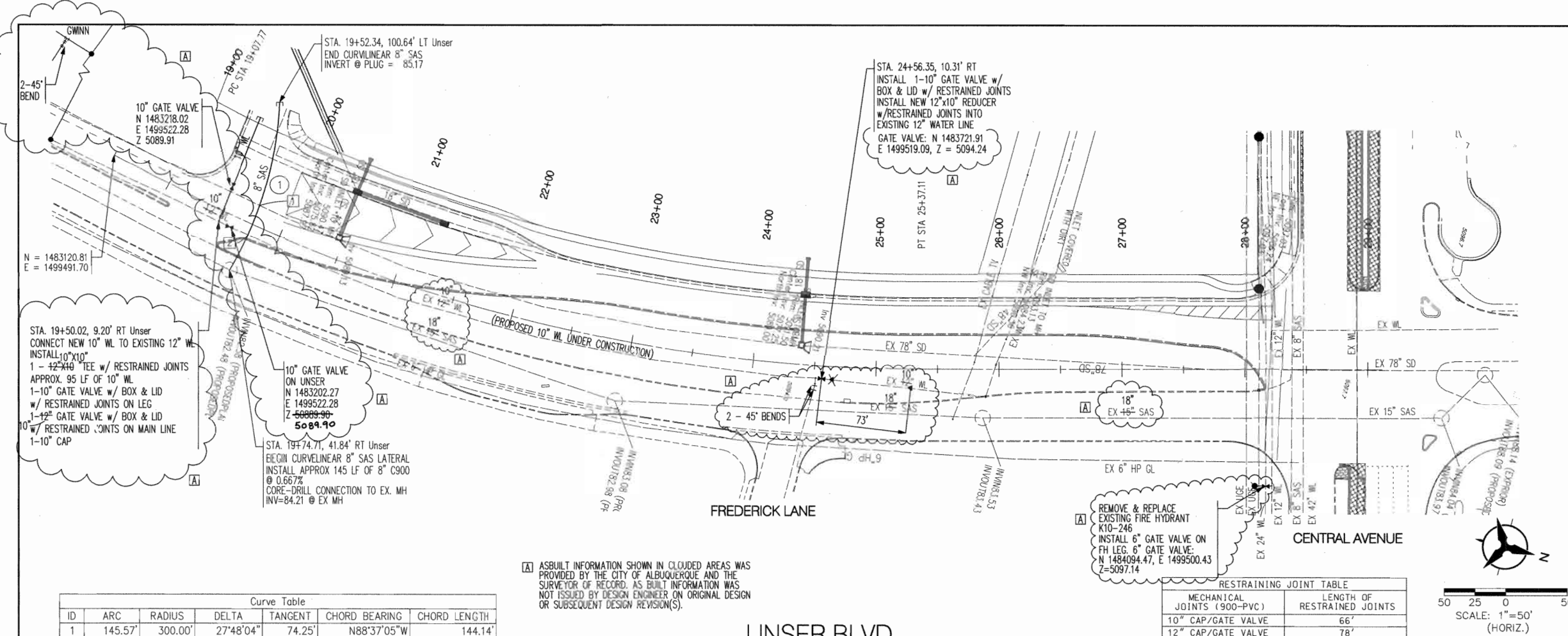
HDR ENGINEERING INC.
ONE COMPANY
Many Solutions

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION

TITLE: UNSER BLVD. IMPROVEMENTS - SAGE TO CENTRAL
UNSER SAS P&P: STA 84+00 TO 91+75.14

Design Review Committee City Engineer Approval

City Project No. 7699.91 Zone Map No. K10, L10 Sheet 81 of 82



NOTES

- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- ALL CURB RETURN RADIUS SHALL BE 25' UNLESS OTHERWISE SPECIFIED.
- ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
- GRADE ELEVATIONS, WHERE NOTED, ARE ALONG FLOWLINE OF CURB UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR IS TO INSTALL A 4" X 4" X 5' POST AND END AT THE END OF EACH SANITARY SEWER SERVICE.
- CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
- ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.
- CONTRACTOR SHALL PROVIDE THE INSPECTORS, (CITY AND PRIVATE) WITH THE PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
- CONTRACTOR SHALL MARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
- ANY DAMAGE TO THE EXISTING FACILITIES (CURB & GUTTER), PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS' EXPENSE.
- REMOVAL OF THE EXISTING CURB AND GUTTER SHALL BE AS PER COA STD. DWG. 2415 (SAWCUT ONLY).
- WHEELCHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.
- FOR STORM DRAIN CONSTRUCTION, RCP PIPE JOINTS SHALL NOT BE GROUTED PRIOR TO FINAL INSPECTION. FINAL INSPECTION WILL DETERMINE JOINTS TO BE GROUTED FOR FINAL ACCEPTANCE OF THE CONSTRUCTION.
- ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.
- ELECTRONIC MARKER DISKS (EMD) WILL BE PLACED ACCORDING TO SECTION 170 OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #7.
- CONTRACTOR SHALL COORDINATE WITH THE ABCWUA (505-768-2500) SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT EXISTING PUBLIC WATER OR SEWER UTILITIES. EXISTING VALVES TO BE OPERATED BY ABCWUA PERSONNEL ONLY. CONTRACTOR SHALL COORDINATE WITH ABCWUA CONCERNING THE WATER SHUT OFF PLAN.

RESTRAINING JOINT TABLE

MECHANICAL JOINTS (900-PVC)	LENGTH OF RESTRAINING JOINTS
10" CAP/GATE VALVE	66'
12" CAP/GATE VALVE	78'

Crossings

DES	SAS	SD	*WL
1	8" TP 85.27	96" TP 84.38	-
	8" BP 84.58	96" TP 74.80	-
2	8" TP 85.10	-	12" TP 86.32
	8" BP 84.41	-	12" BP 85.26

*LOCATION OF WL IS APPROXIMATE. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES

Bohannon & Huston

Courtyard | 7500 Jefferson St NE Albuquerque, NM 87109-4395
ENGINEERING • SPATIAL DATA • ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE

DEPARTMENT OF MUNICIPAL DEVELOPMENT
UNSER BLVD IMPROVEMENTS - SAGE TO CENTRAL
UTILITY PLAN & PROFILE
UNSER BLVD.

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.

ENGINEER'S SEAL

ISSUED 8/26/08
MICHAEL BALASKOVICH
NEW MEXICO
18187
LICENSED PROFESSIONAL ENGINEER

REMARKS

REVISIONS
DESIGN
NO. DATE
BY
DATE 08/2008
DATE 08/2008
DESIGNED BY MB
DRAWN BY DM
CHECKED BY MB

LAST DESIGN UPDATE

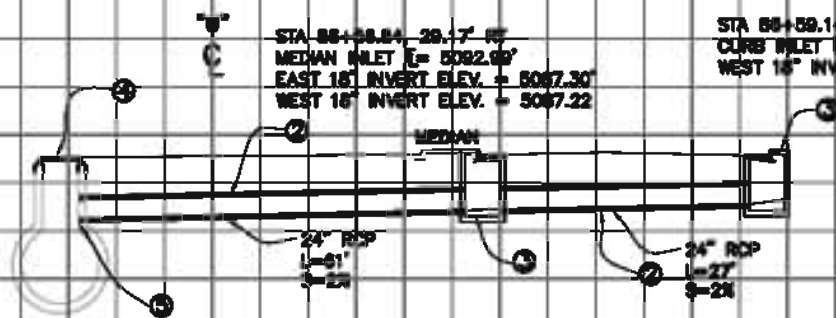
5095
 5090
 5085
 5080
 5075
 5070

-100 -75 -50 -25 0 25 50 75 100

STA 85+17.23, 14.83' LT
 MH RM ELEV. = 5092.73'
 C INVERT 24" ELEV. = 5077.48'
 EAST INVERT 18" ELEV. = 5083.00'

STA 86+38.84, 28.7' RT
 MEDIAN INLET E = 5082.89'
 EAST 18" INVERT ELEV. = 5087.30'
 WEST 18" INVERT ELEV. = 5087.22'

STA 88+58.14, 58' RT
 CURB INLET E = 5082.85'
 WEST 18" INVERT ELEV. = 5087.83'



"U" STA 86+31.22
 UNSER BLVD.

NOTES:

1. REFER TO COA STANDARD DRAWINGS 2207, 2215, 2218 AND 2220 FOR DETAILS.
2. CONTRACTOR SHALL VERIFY ALL INVERT ELEVATIONS FOR NEW AND EXISTING INLET STRUCTURES AND MANHOLES.
3. CONCRETE FILL INSIDE INLET STRUCTURES SHALL BE INCLUDED IN THE COST OF THE INLET STRUCTURE. NO ADDITIONAL PAYMENT SHALL BE MADE THEREFORE.
- ALL MANHOLE RIM ELEVATIONS ARE APPROXIMATE RIMS SHALL BE GRADED TO ACTUAL FIELD CONDITIONS.

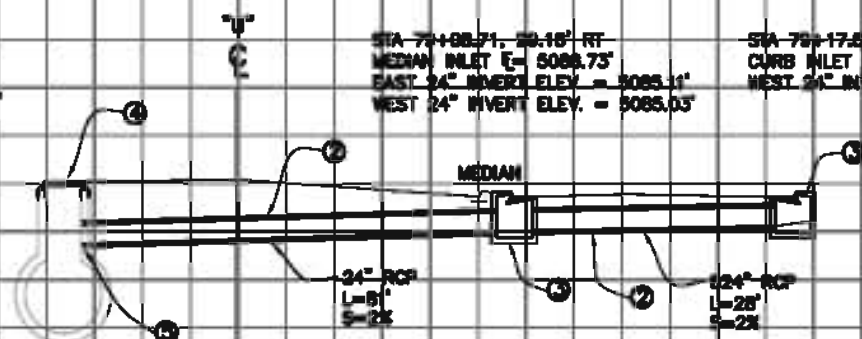
5095
 5090
 5085
 5080
 5075
 5070

-100 -75 -50 -25 0 25 50 75 100

STA 78+44.13, 14.18' LT
 MH RM ELEV. = 5094.28'
 C INVERT 24" ELEV. = 5074.50'
 EAST INVERT 24" ELEV. = 5083.41'

STA 79+68.71, 28.18' RT
 MEDIAN INLET E = 5084.75'
 EAST 24" INVERT ELEV. = 5085.11'
 WEST 24" INVERT ELEV. = 5085.03'

STA 79+17.88, 58' RT
 CURB INLET E = 5088.58'
 WEST 24" INVERT ELEV. = 5085.67'



"U" STA 78+68.51
 UNSER BLVD.

KEYED NOTES:

- ① REMOVE EXISTING INLET STRUCTURE FROM EXISTING MANHOLE. BUILD UP MANHOLE STACK TO NEW RIM ELEVATION AND INSTALL RIM COVER AND BUILD NEW PCC COLLAR.
- ② FRENCH & INSTALL 24" RCP. PLACE GASKET BETWEEN SECTIONS AND GROUT NEW SECTION TO EXISTING MANHOLE.
- ③ CONSTRUCT STORM INLET TYPE "A" PER COA STANDARD DRAWINGS 2201 AND 2202.
- ④ CONSTRUCT MANHOLE TYPE "C" PER COA STANDARD DRAWINGS 2101.
- ⑤ PENETRATE EXISTING MANHOLE STRUCTURE AND INSTALL 24" RCP PER INVERT ELEVATION REQUIREMENT, SEAL AND GROUT PER COA SPECIFICATIONS.

NO. DATE
 REMARKS
 REVISIONS

ONE COMPANY
HDR
 ENGINEERING INC.
 2000 ALBUQUERQUE BLVD., NE
 SUITE 200
 ALBUQUERQUE, NM 87110
 505.261.1000

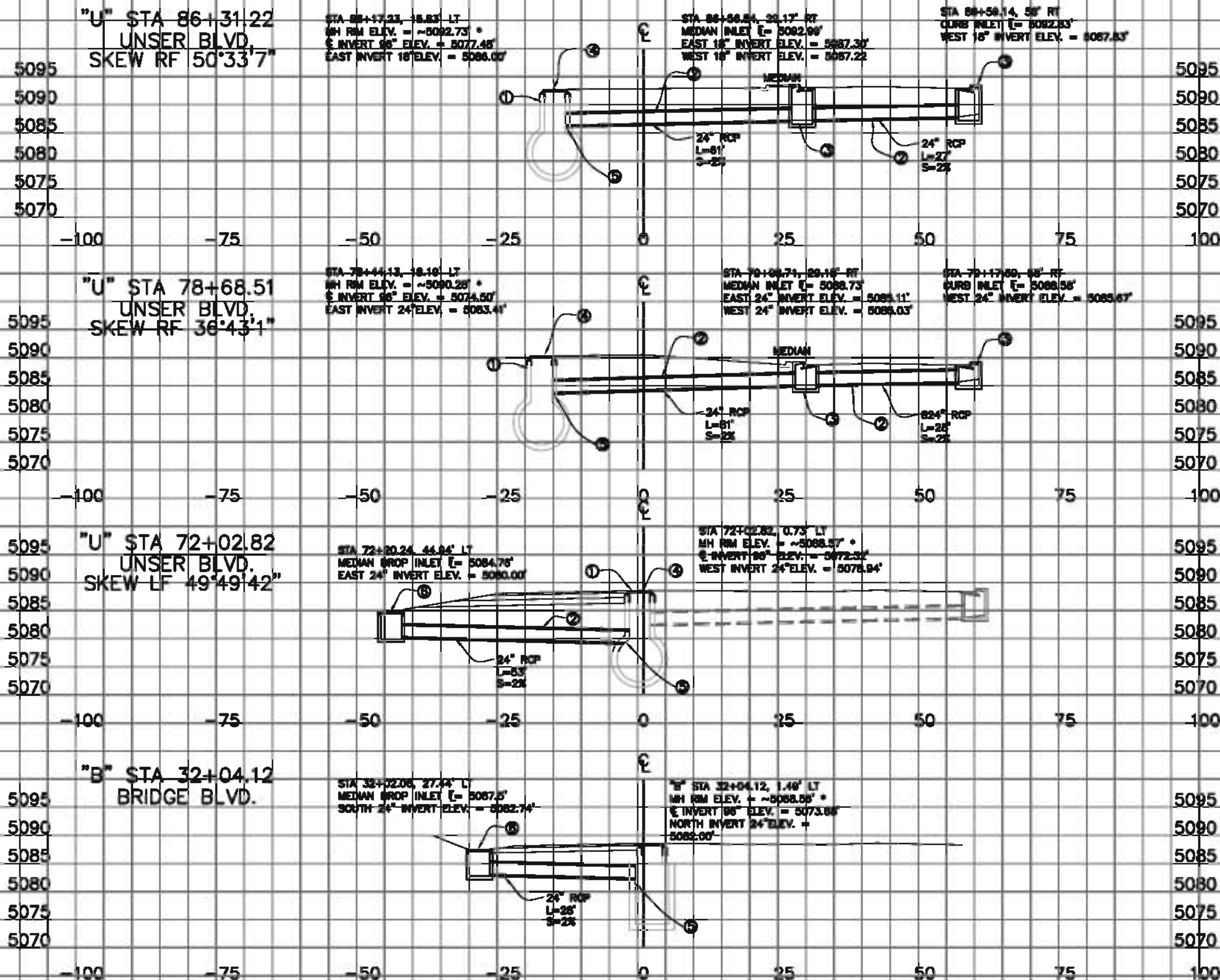
CITY OF ALBUQUERQUE
 MUNICIPAL DEVELOPMENT DEPARTMENT
 TRANSPORTATION DEVELOPMENT DIVISION
 TITLE: UNSER BLVD. IMPROVEMENTS - SAGE TO CENTRAL
 STRUCTURE PLACEMENT CROSS SECTIONS

Design Review Committee City Engineer Approval
 City Project No. 7699.91 Zone Map No. K10, L10 Sheet 82 of 82
 DESIGNED BY: MCL DATE: 3/21/2007
 DRAWN BY: MCL DATE: 3/21/2007
 CHECKED BY: E.H. DATE: 4/05/2008

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	BY	DATE	DESCRIPTION	DATE	DATE
			10-L10, set flush on top of concrete curb in the Southwest quadrant, Northeast nose of traffic control island at the intersection of Tower Road SW and Unser Boulevard SW. Second Order, First Class NGVD29		

ENGINEER'S SEAL		REVISIONS	
NO.	DATE	REMARKS	BY

REVISIONS		DATE	
DESIGNED BY: MCL	DATE: 3/21/2007	DRAWN BY: MCL	DATE: 3/21/2007
CHECKED BY: E.H.	DATE: 4/05/2008		



NOTES:

1. REFER TO COA STANDARD DRAWINGS 2207, 2215, 2218 AND 2220 FOR DETAILS.
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KEYED NOTES

- ① REMOVE EXISTING INLET STRUCTURE FROM EXISTING MANHOLE. BUILD UP MANHOLE STACK TO NEW RIM ELEVATION AND INSTALL RIM COVER AND BUILD NEW PCC COLLAR.
- ② TRENCH & INSTALL 24" RCP. PLACE GASKET BETWEEN SECTIONS AND GROUT NEW SECTION TO EXISTING MANHOLE.
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- ④ CONSTRUCT MANHOLE TYPE "C" PER COA STANDARD DRAWINGS 2101.
- ⑤ PENETRATE EXISTING MANHOLE STRUCTURE AND INSTALL 24" RCP PER INVERT ELEVATION REQUIREMENT, SEAL AND GROUT PER COA SPECIFICATIONS.
- ⑥ CONSTRUCT MEDIAN STORM DRAIN PER COA STANDARD DRAWINGS 2206.

THIS COMPANY ALLOWS THE OWNER TO REMOVE EXISTING STRUCTURES AND RECONSTRUCT THEM TO MEET THE REQUIREMENTS OF AN UNDERGROUND FACILITY.

ONE COMPANY
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 ALBUQUERQUE, NM 87110
 505.261.1000

CITY OF ALBUQUERQUE
 MUNICIPAL DEVELOPMENT DEPARTMENT
 TRANSPORTATION DEVELOPMENT DIVISION
 TITLE: UNSER BLVD. IMPROVEMENTS - SAGE TO CENTRAL
 STRUCTURE PLACEMENT CROSS SECTIONS

Design Review Committee	City Engineer Approval	DATE: 10/26/07	DATE: 10/26/07
Last Design Update			
City Project No.	Zone Map No.	Sheet	Of
7699.91	K10, L10	82A	82

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	DATE	NO.	DATE	NO.	DATE
1		1		1	
2		2		2	
3		3		3	
4		4		4	
5		5		5	
6		6		6	
7		7		7	
8		8		8	
9		9		9	
10		10		10	