

PLANS FOR CONSTRUCTION OF

SUN VALLEY COMMERCIAL CENTER

ALBUQUERQUE, NEW MEXICO

MARCH, 2001

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AS-BUILT SURVEY

I, the undersigned, being a Professional Engineer in the State of New Mexico, do hereby certify that the as-built information shown hereon is based on actual field measurements and visual inspections performed by Brasher and Lorenz, Inc.

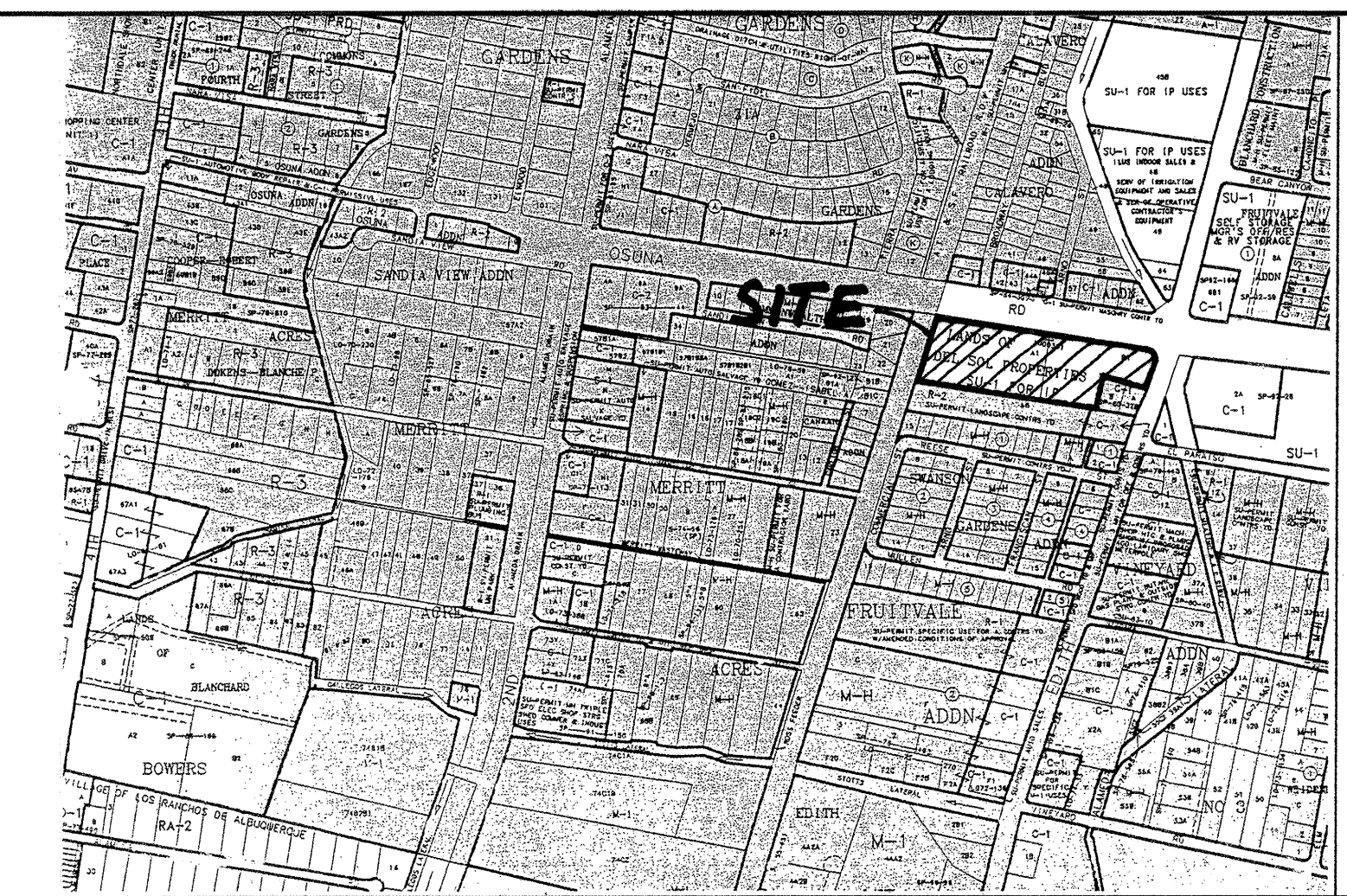
Steven K. Morrow 12-24-01
Steven K. Morrow NMPE 13679 Date



APPROVAL OF RECORD DRAWINGS
CHIEF CONSTRUCTION ENGINEER
Bill Chang
DATE 2/5/02

DRB PROJECT 1000351

BRASHER & LORENZ
CONSULTING ENGINEERS
2201 San Pedro NE Building 1 Suite 220
Albuquerque, New Mexico 87110
Ph: 505-888-6088 Fax: 505-888-6188



VICINITY MAP: E-15 SCALE: NTS

GENERAL NOTES:

1. CITY OF ALBUQUERQUE SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS AMENDED THROUGH UPDATE 6, WILL BE REFERRED TO HEREIN AS THE "STANDARD SPECIFICATIONS." ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS
2. THREE WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) AND DETERMINE LOCATION OF EXISTING UTILITIES.
3. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS, SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR THE SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITHOUT DELAY.
4. ALL EXISTING SIGNS, MARKERS, DELINEATORS, ETC., WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED, STORED AND RE-SET BY THE CONTRACTOR.
5. THE CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) WORKING DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. THE CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MARKER IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
6. FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. THREE (3) WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE STANDARD SPECIFICATIONS.
7. ANY WORK OCCURRING WITHIN AN ARTERIAL ROADWAY REQUIRES 24 HOUR CONSTRUCTION.
8. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
9. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED BY THE CONTRACTOR WITH HOT THERMOPLASTIC REFLECTORIZED PAVEMENT MARKING. ALL NEW STRIPING SHALL BE HOT THERMOPLASTIC REFLECTORIZED PAVEMENT MARKING.
10. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENTS, PAVEMENT MARKINGS, CURB AND GUTTER, DRIVEPADS, WHEELCHAIR RAMPS AND SIDEWALKS DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS AND SHALL REPAIR OR REPLACE PER THE STANDARD SPECIFICATIONS AT HIS OWN EXPENSE.
11. EXISTING UTILITY LINES AND PIPELINES SHOWN ON THESE DRAWINGS ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. UTILITIES MAY EXIST WHERE NONE ARE SHOWN. THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE OR TYPE OF EXISTING UTILITY LINES AND PIPELINES. THE CONTRACTOR IS FULLY RESPONSIBLE FOR DAMAGE CAUSED BY FAILURE TO LOCATE AND PRESERVE EXISTING UTILITY LINES AND PIPELINES.
12. THE CONTRACTOR SHALL SECURE A "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING
13. THE CONTRACTOR SHALL ASSIST THE ENGINEER/INSPECTOR IN THE RECORDING OF DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE OWNERS FOR THE PREPARATION OF "RECORD DRAWINGS." THE CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.
14. ALL CONSTRUCTION WITHIN CITY RIGHT-OF-WAY OR EASEMENTS MUST BE DONE FROM APPROVED WORK ORDER DOCUMENTS FROM THE CITY AND PREPARED BY BRASHER AND LORENZ, INC.
15. THE CONTRACTOR SHALL DETERMINE IN ADVANCE OF HIS CONSTRUCTION IF OVERHEAD UTILITY LINES, SUPPORT STRUCTURES, POLES, GUYS, ETC. ARE AN OBSTRUCTION TO CONSTRUCTION OPERATIONS. IF ANY OBSTRUCTION TO CONSTRUCTION OPERATIONS IS EVIDENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE APPROPRIATE UTILITY OWNER TO REMOVE OR SUPPORT THE UTILITY OBSTRUCTION. ANY COST ASSOCIATED WITH THIS EFFORT SHALL BE THE RESPONSIBILITY OF THE
16. THE CONTRACTOR IS TO SUPPORT AND MAINTAIN THE INTEGRITY OF ALL UNDERGROUND TELEPHONE, ELECTRIC CABLES AND CABLE TELEVISION UTILITIES AT NO ADDITIONAL COST THE OWNER. CABLE IS TO BE SUPPORTED EVERY 15 FEET (MINIMUM). CONTRACTOR SHALL COORDINATE WITH AND MAKE NECESSARY PAYMENT (IF ANY) TO UTILITY OWNER FOR DE-ENERGIZATION OF CABLES OR SUPPORT OF CABLES BY THE UTILITY OWNER.

REV.	SHEETS	CITY	ENGINEER	DATE	USER	DEPARTMENT	DATE	USER	DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE	APPROVALS	ENGINEER	DATE	*****						
	DRC Chairman	<i>Bill Chang</i>	4-01-0	APPROVED FOR CONSTRUCTION						
	Transportation	<i>David D. Morrow</i>	5-23-01	<i>David D. Morrow</i> 5/22/01 City Engineer Date						
	Water/Wastewater	<i>David D. Morrow</i>	5/23/01							
	Hydrology	<i>David D. Morrow</i>	5/24/01							
	CIP	<i>David D. Morrow</i>	5/24/01							
Constr. Mngmt.	<i>David D. Morrow</i>	5-23-01								
Constr. Coord.	<i>David D. Morrow</i>	5-23-01								
CITY PROJECT NO.				SHEET OF						
657081				1 11						

LEGAL DESCRIPTION
Tracts A-1 and B-1, LAND
plat thereof filed in the office
2000C, Page 102.

FREE CONSENT

OWNER(S) SIGNATURE: _____
OWNER(S) PRINT NAME _____
ADDRESS: _____
ACKNOWLEDGMENT _____

BY: Bob D. Kitts
MY COMMISSION EXPIRES: 6/20/04

OWNER(S) SIGNATURE: _____
OWNER(S) PRINT NAME: _____
ADDRESS: _____
ACKNOWLEDGMENT

Y: Dean A. Ch...
Y COMMISSION EXPIRES: 1/20/2011

OWNER(S) SIGNATURE: _____
OWNER(S) PRINT NAME: _____
ADDRESS: _____ 320
ACKNOWLEDGMENT

COMMISSION EXPIRES: 1/2/2011

SURVEYOR'S CERTIFICATION

I, Thomas W. Mellick, a duly qualified Registered Professional Land Surveyor under the laws of the State of New Mexico, do hereby certify that the plat and description were prepared by me or under my supervision, shows all sections of the subdivision as shown on the plat of record or made known to me by the owners and/or proprietors of the subdivision shown therein, utility companies and other parties expressing an interest and meets the minimum requirements for monumentation and survey of the Albuquerque Subdivision. Occurrence, and further, meets the Minimum Standards for Land Surveying of the State of New Mexico (Effective November 1, 1988 and revisions February 2, 1994), and is true and correct to the best of my knowledge and belief.

Thomas W. Patrick
1295 S. 12th St.
Phoenix, Arizona 85004
Date: 12/15/85
REG-1295
NATIONAL CO. &
16 September 1985
0001

SOUTHWEST SURVEYING CO., INC.

333 LOMAS BLVD., N.E.
ALBUQUERQUE, NEW MEXICO
87102

PHONE: (505) 998-0303
FAX: (505) 998-0306

1" = 60'
PROJECT NO. 0009JG02
DRAWN BY JG
ZONE ATLAS: F-15-7

**PLAT OF
LOTS 1-8**

LANDS OF ZIA TRADING COMPANY
SITUATE WITHIN PROJECTED SECTION 28,
T. 11 N., R. 3 E., N.M.P.M.
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
SEPTEMBER 2000
SHEET 2 OF 2

COUNTRY, NEW MEXICO
SEPTEMBER 2000
SHEET 2 OF 2

OSUNA ROAD NE
(150' PUBLICLY DEDICATED RIGHT-OF-WAY)
(4/6/00, 2000C-102)

STATION: ACS 12-E15
X = 384,039.89
Y = 1,511,327.49
GROUND TO GRID = 0.99
DELTA ALPHA = -00°13'
NEW MEXICO STATE PLANNING
COORDINATE SYSTEM
CENTRAL ZONE A
NAD 1927

STATION: ACS 12-E14
X = 383,639.42
Y = 1,508,468.35
GROUND TO GRID = 0.9996775
DELTA ALPHA = -001°32'
NEW MEXICO STATE PLANE
COORDINATE SYSTEM
CENTRAL ZONE

PROJECT NO. 0009JG02
DRAWN BY JG
ZONE ATLAS: E-15--Z

SHEET 2 OF 11

SOUTHWEST SURVEYING CO., INC.

333 LOMAS BLVD., N.E.
ALBUQUERQUE, NEW MEXICO
87106

PHONE: (505) 998-0303
FAX: (505) 998-0306

T11NR3E SEC. 28
200/c. 75 (2)

SHOWN FOR INFORMATION ONLY
NOT IN CONTRACT

LEGEND

- 6001 — EXISTING CONTOUR ELEVATION
02.5 x EXISTING SPOT ELEVATION
— 01 — PROPOSED CONTOUR ELEVATION
- - - - - PROPERTY LINE
01.5 x PROPOSED SPOT ELEVATION
← DIRECTION OF FLOW
— DRAINAGE SWALE
☒ UTILITY BOX
Ⓢ PHONE

KEYED NOTES

- EXISTING CONCRETE CURB & GUTTER TO REMAIN
- NEW CONCRETE VALLEY GUTTER ENTRY. SEE CITY PROJECT 657081.
- CONSTRUCT HANDICAP ACCESS RAMP. SEE CITY PROJECT 657081.
- EXISTING HANDICAP RAMP TO REMAIN.
- EXISTING 6" SIDEWALK TO REMAIN.
- NEW 10" ASPHALT TRAIL. SEE CITY PROJECT 657081.
- EXISTING CONCRETE RETAINING WALL TO REMAIN.
- NEW 6" CONCRETE CURB.
- NEW ASPHALT PAVING.
- NEW CONCRETE SIDEWALK. SEE SITE PLAN FOR EXACT LOCATION AND WIDTH.
- EXISTING GUARDRAIL TO REMAIN.
- CONSTRUCT HANDICAP ACCESS RAMP. SEE SITE PLAN FOR DETAILS.
- NEW REFUSE ENCLOSURE. SEE SITE PLAN FOR DETAILS.
- CONSTRUCT GROUDED RIP RAP CHANNEL. SEE SECTION 'B', SHEET 3.
- EXISTING FIRE HYDRANT TO REMAIN.
- NEW FIRE HYDRANT. SEE CITY PROJECT 657081.
- CONSTRUCT CONCRETE CHANNEL. SEE SECTION 'A', SHEET 3.
- EXISTING LANDSCAPING TO REMAIN.
- EXISTING ENTRY FEATURE TO REMAIN.
- CONSTRUCT CONCRETE POND RUNDOWN. SEE SECTION 'F', SHEET 3.
- SUMP PUMP WITH PVC DRAIN LINE. SEE SECTION 'H', SHEET 3.
- CONSTRUCT 18" SIDEWALK CULVERT PER COA STD DWG 2236.
- CONSTRUCT 36" SIDEWALK CULVERT PER COA STD DWG 2236.
- CONSTRUCT 72" SIDEWALK CULVERT PER COA STD DWG 2236.

DRAINAGE PLAN NOTES

- BLI recommends that the Owner obtain a Geotechnical Evaluation of the on-site soils prior to foundation/structural design.
- This Plan recommends positive drainage away from all structures to prohibit ponding of runoff which may cause structural settlement. Future alteration of grades adjacent to the proposed structures is not recommended.
- Irrigation within 10 feet of any proposed structure is not recommended. Introduction of irrigation water into subsurface soils adjacent to the structure could cause settlement.
- This Plan is prepared to establish on-site drainage and grading criteria only. BLI assumes no responsibility for subsurface analysis, foundation/structural design, or utility design.
- Local codes may require all footings to be placed in natural undisturbed soil. If the Contractor plans to place footings on engineered fill, a certification by a registered Professional Engineer will be required. If the contractor wishes BLI to prepare the Certification, we must be notified PRIOR to placement of the fill.
- BLI recommends that the Owner obtain the services of a Geotechnical Engineer to test and inspect all earthwork aspects of the project.
- The property boundary shown on this Plan is given for information only to describe the project limits. Property boundary information shown hereon does not constitute a boundary survey. A boundary survey performed by a licensed New Mexico Registered Professional Surveyor is recommended prior to construction.

Channel Section
N.T.S.

BRASHER & LORENZ
CONSULTING ENGINEERS
2201 San Pedro NE Building 1 Suite 220
Albuquerque, New Mexico 87110
Ph: 505-888-6088 Fax: 505-888-6188

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: **SUN VALLEY COMMERCIAL CENTER**
GRADING & DRAINAGE PLAN

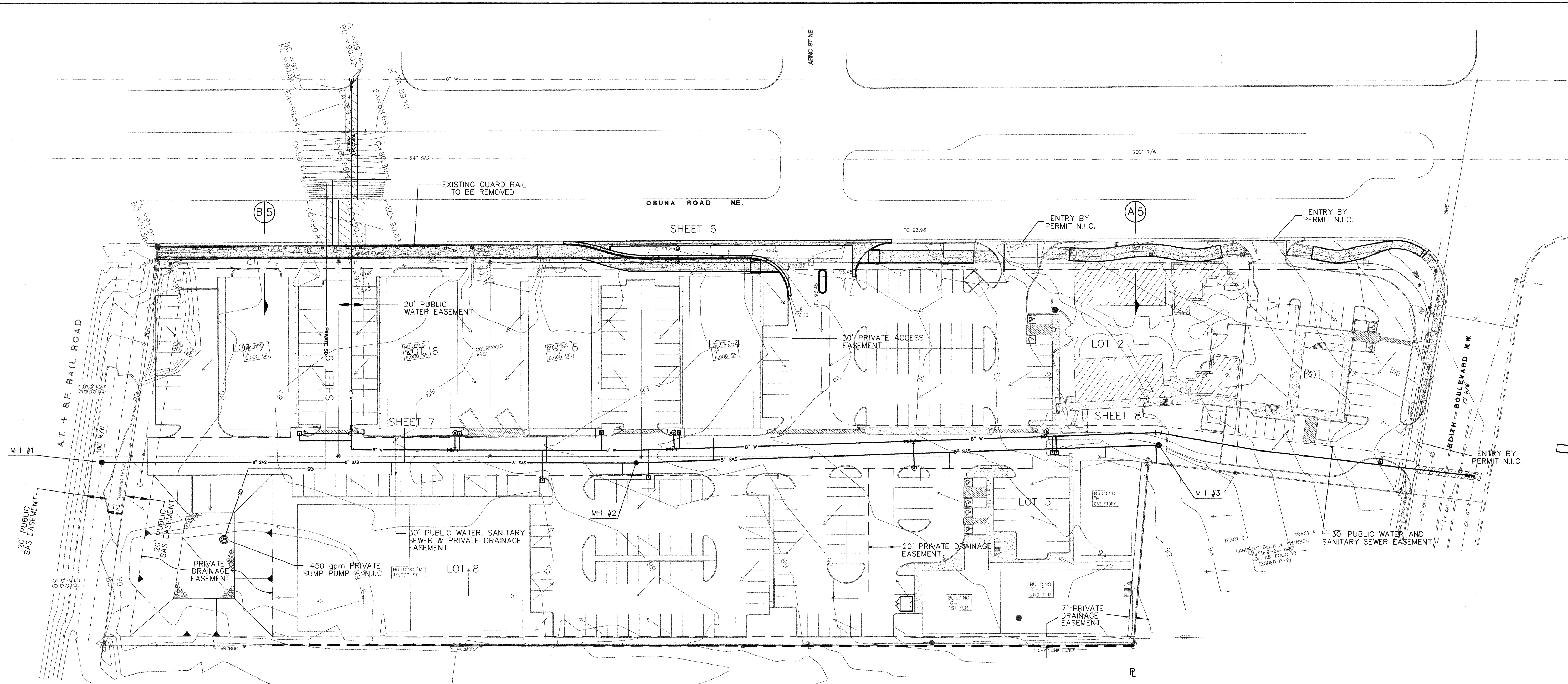
Design Review Committee	City Engineer Approval	Ms./Day/Yr.	Ms./Day/Yr.
City Project No.	Zone Map No.	Sheet	Of
657081	E-15	3	11

AS BUILT INFORMATION	
CONTRACTOR	DATE
INSPECTOR	DATE
VERIFICATION	DATE
CORRECTION	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE

BENCH MARKS	
ACS 1-3/4" ALUMINUM DISK, STAMPED "ACS BM, 18-E15", EPOCH ON TOP OF A CONCRETE DROP INLET, SOUTH SIDE OF CENTER MEDIAN OF OSUNA RD. NE, 176 FT. ± EAST OF THE CENTERLINE OF EDITH BLVD. ELEV. = 5006.22	DATE
NO.	DATE

SURVEY INFORMATION	
FIELD NOTES	DATE
NO.	DATE

ENGINEER'S SEAL	
NO.	DATE
REVISIONS	DATE
DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE



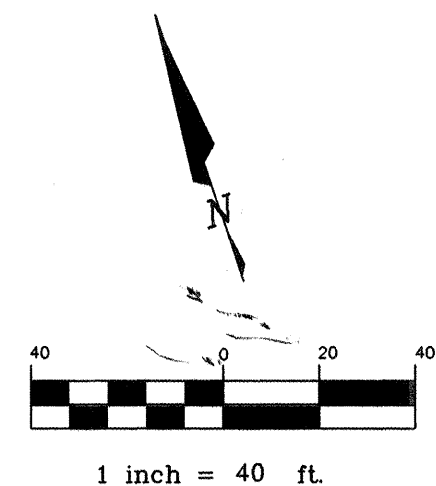
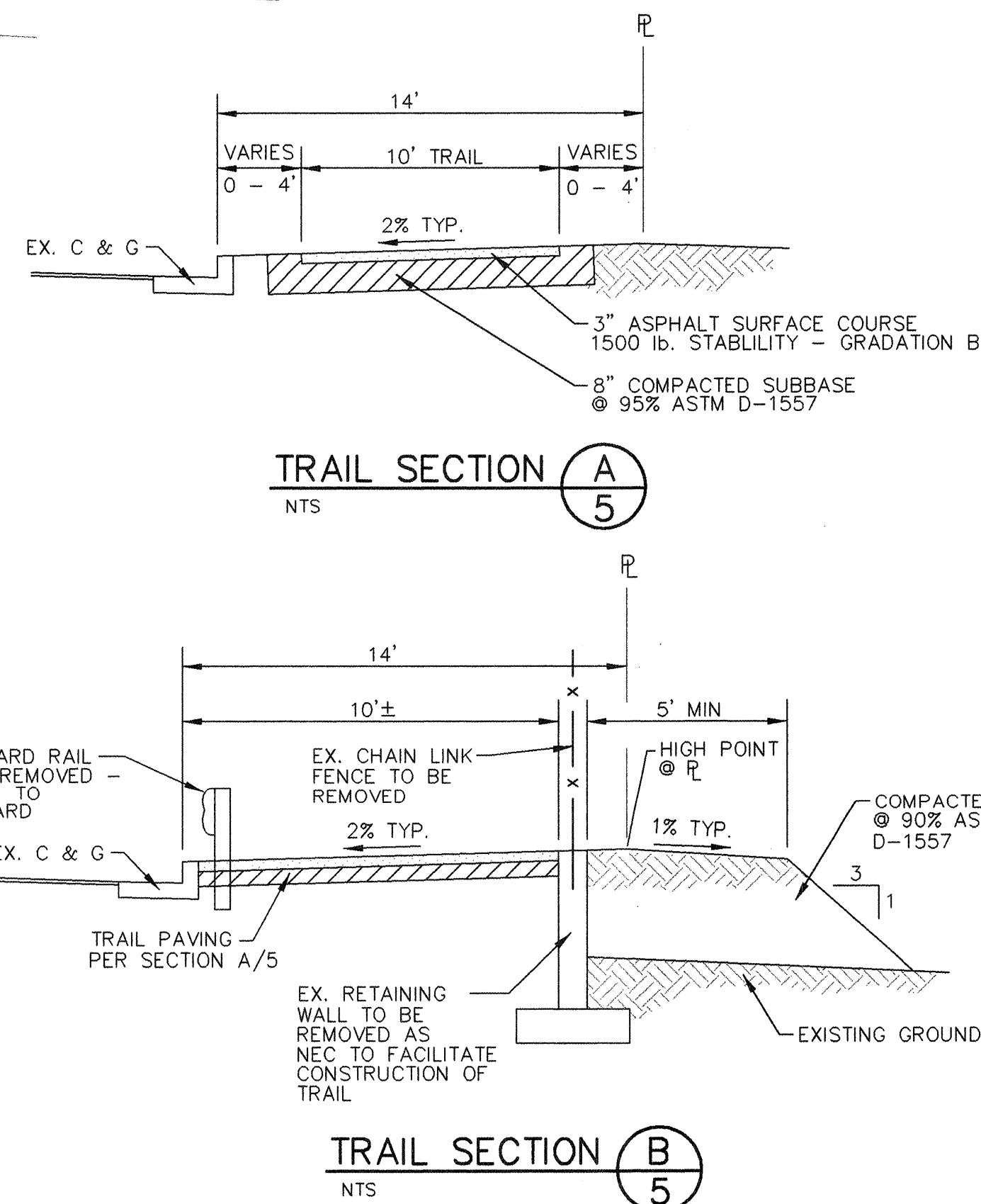
LEGEND

ITEM	EXISTING	PROPOSED
WATERLINE	— 6" W — — 8" SAS —	— 6" W — — 8" SAS —
SANITARY SEWER	— 36" SD —	— 24" SD —
STORM SEWER	⊙	⊙
FIRE HYDRANT	⊙	⊙
VALVE	⊗	⊗
WATER SERVICE (SINGLE)	— — — — —	— — — — —
WATER SERVICE (DOUBLE)	— — — — —	— — — — —
MANHOLE	— — — — —	— — — — —
STD CURB & GUTTER	— — — — —	— — — — —
DOD INLET	— — — — —	— — — — —
OVERHEAD ELEC.	— — — — —	— — — — —
UNDERGROUND ELEC. GAS, TEL, TV	— — — — —	— — — — —
FLOWLINE ELEV.	— FL 0.14	— FL 0.14
TOP OF CURB ELEV.	— 99.3	— 99.31
SPOT ELEV.	× 16.7	⬇ 16.7
SEWER SERVICE	— — — — —	— — — — —
RIGHT OF WAY	— — — — —	— — — — —
POWER POLE (GUYED)	● — — — — —	● — — — — —
CHAIN LINK FENCE	— — — — —	— — — — —
CENTERLINE	— — — — —	— — — — —
RETAINING WALL	— — — — —	— — — — —
TOP OF ASPHALT ELEV.	— TA 16.2	— TA 16.2

WATER SHUT-OFF PLAN

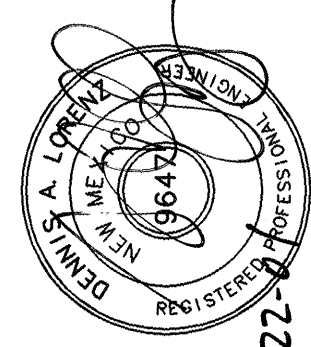
1. ALL VALVES, HYDRANTS, AND APPURTENANCES OF THE CITY WATER SYSTEM SHALL BE OPERATED BY CITY PERSONNEL ONLY.
2. THE CONTRACTOR SHALL PROVIDE THE CITY 5 DAYS ADVANCE NOTICE OF NEED FOR SYSTEM FOR SYSTEM SHUTDOWN. CALL 857-8200.
3. EACH SYSTEM SHUTDOWN IS LIMITED TO 6 HOURS.
4. CONNECTION TO THE EXISTING 8 INCH AT OSUNA REQUIRES CLOSING THE FOLLOWING VALVES:

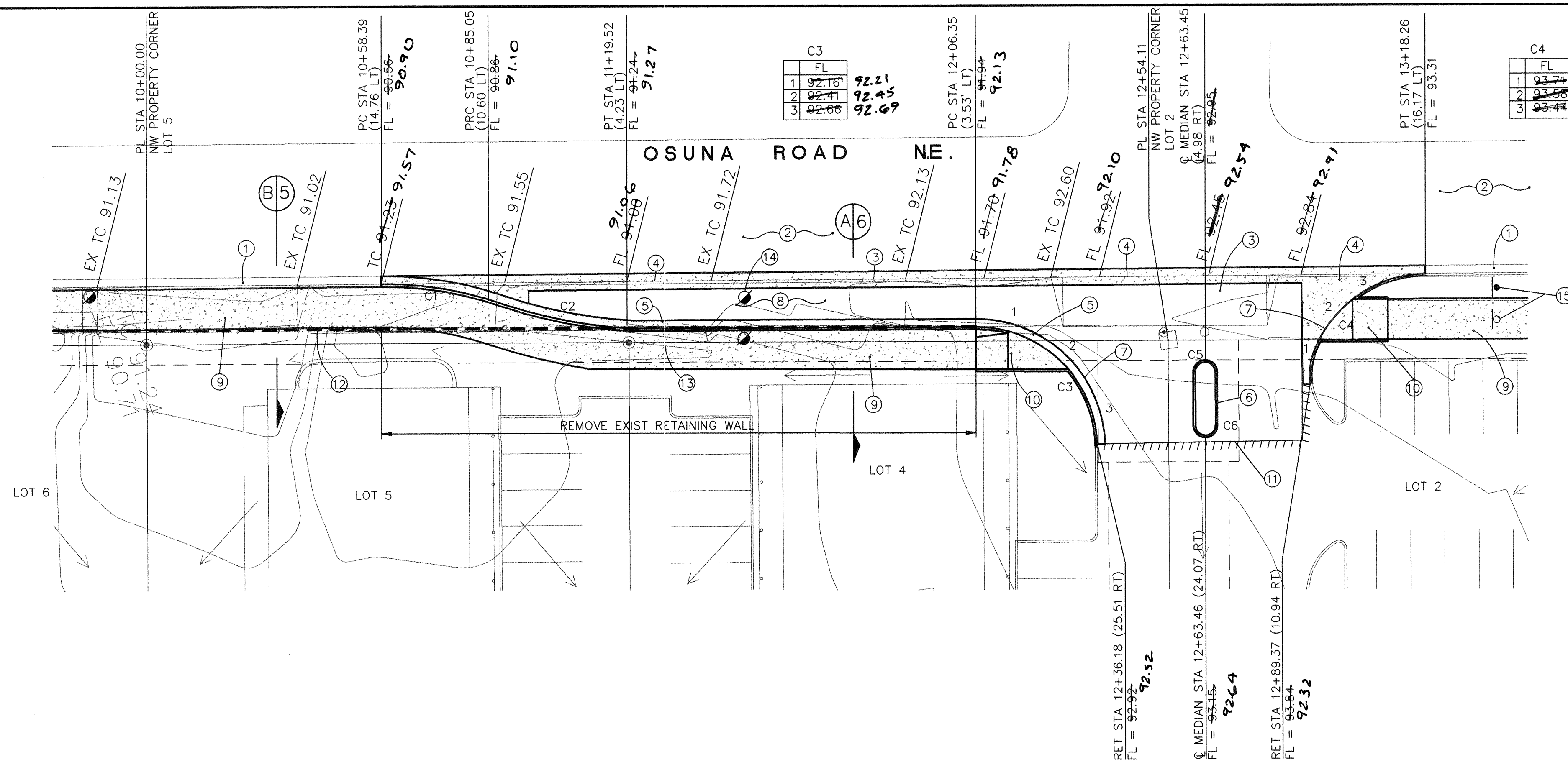
#912 @ CARLTON ST.
#921 @ BROADWAY ST.
#931 @ ARNO ST.
#941, #942 & #945 @ EDITH/OSUNA
5. CONNECTION TO THE 10 INCH CAST IRON LINE @ EDITH WILL BE BY PRESSURIZED CONNECTION. NO VALVES WILL BE CLOSED.



	BRASHER & LORENZ						NO. DATE	DESIGNED BY	DRAWN BY	CHECKED BY
	CONSULTING ENGINEERS									
	2201 San Pedro NE Building 1 Suite 220 Albuquerque, New Mexico 87110 Ph: 505-868-6088 Fax: 505-868-6188									
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP										
TITLE: SUN VALLEY COMMERCIAL CENTER										
LAYOUT PLAN										
Design Review Committee		City Engineer Approval		Mo./Day/Yr.		Mo./Day/Yr.				
APPROVED JUN - 1 2001		APPROVED JUN - 2 2001		Last Design Update						
DESIGN REVIEW COMMITTEE		CITY ENGINEER								
City Project No. 657081				Zone Map No. E-15		Sheet 5		Of		11

SURVEY INFORMATION		BENCH MARKS	AS BUILT INFORMATION	
NO.	FIELD NOTES		CONTRACTOR	DATE
	BY	ACS 1-3/4" ALUMINUM DISK, STAMPED "ACS BM, 18-E15", EXPOSED ON TOP OF A CONCRETE DROP INLET, SOUTH SIDE OF CENTER MEDIAN OF OSUNA RD. NE, 176 FT.± EAST OF THE CENTERLINE OF EDITH BLVD. ELEV. = 5006.22 MSLD 1929	WORK SPURRED BY SURVEY ACCEPTANCE BY FIELD LOCATION BY DRAWINGS CORRECTED BY MICRO-FILM INFORMATION	DATE
			CONTRACTOR J. J. JENSEN	DATE
			NO. CITY ENGINEER	DATE

[illegible]

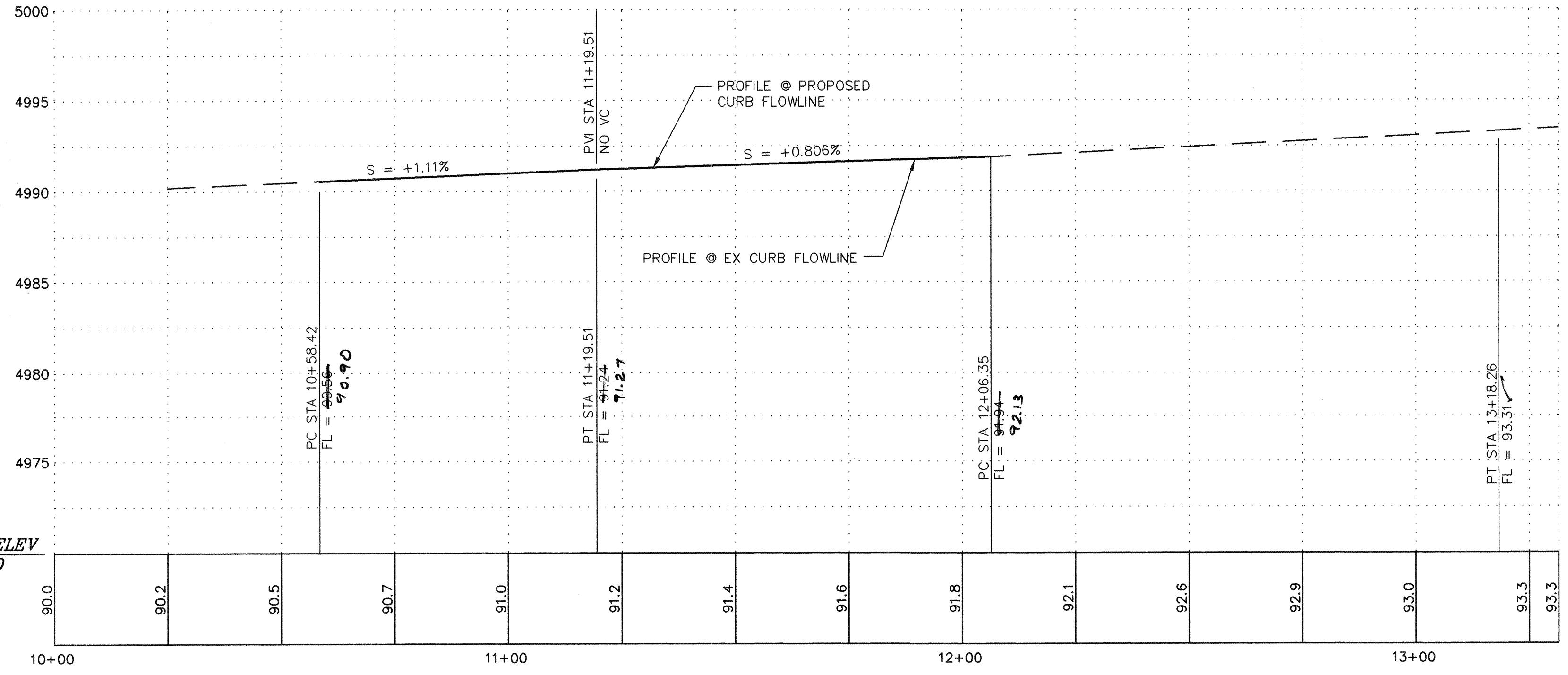
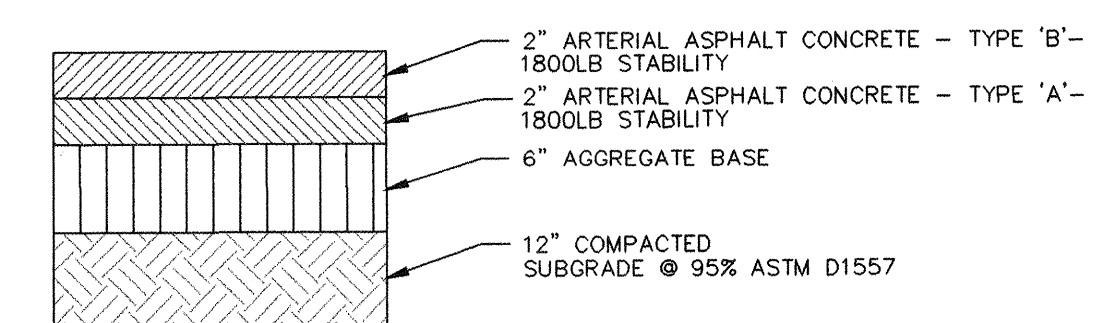
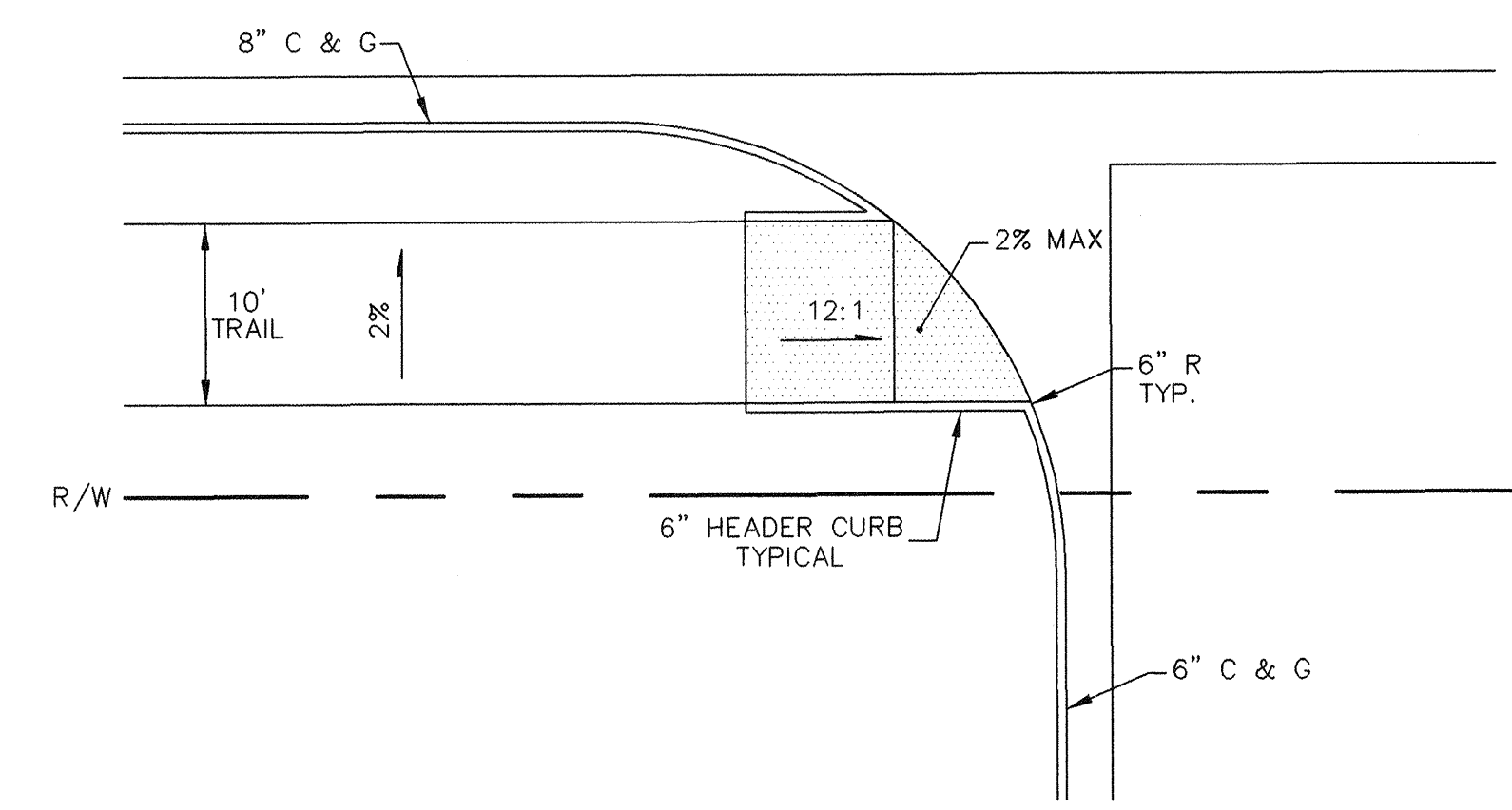
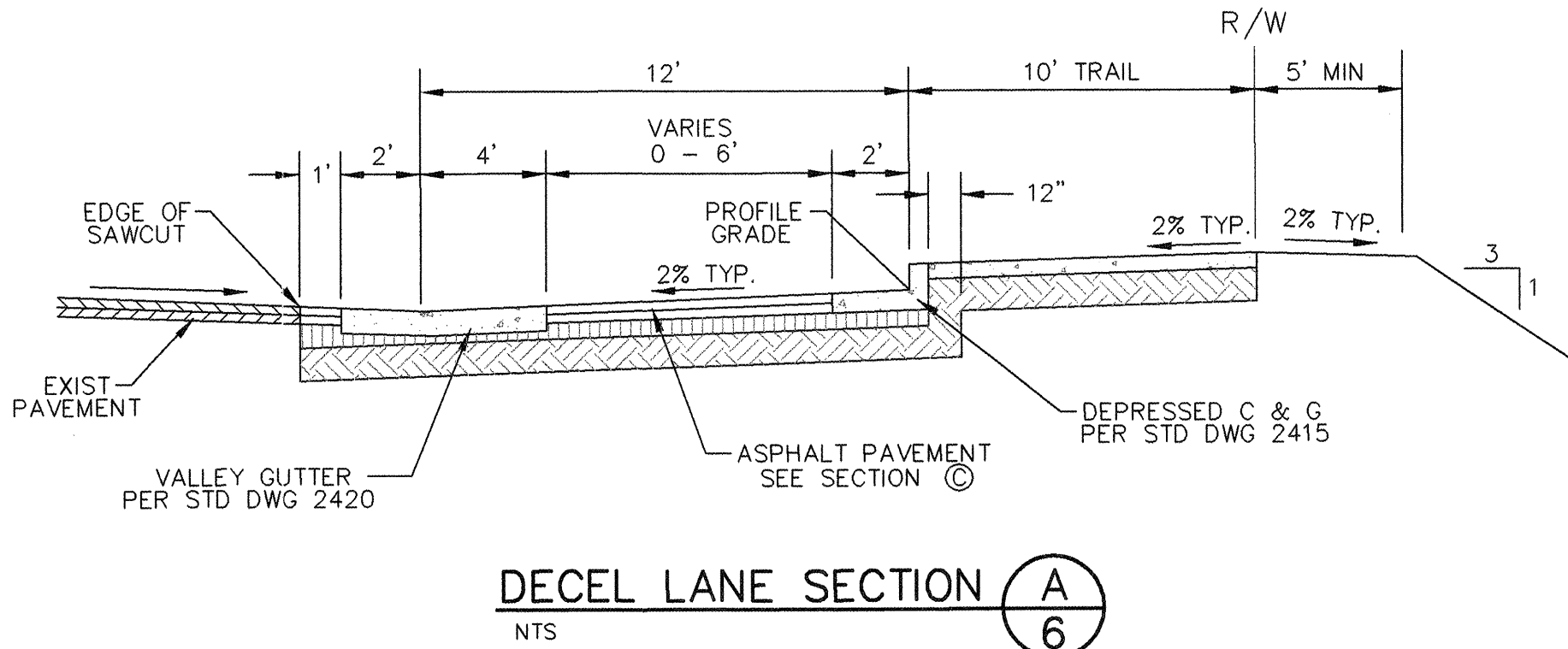


CURVE	LENGTH	RADIUS
C1	31.17	89.33
C2	32.38	100.15
C3	46.35	29.50
C4	35.82	29.50
C5	7.85	2.50
C6	7.85	2.50



HORIZ: 1" = 20'
VERT: 1" = 5'

OSUNA ROAD - DECEL LANE



LEGEND

ITEM	EXISTING	PROPOSED
WATERLINE	6" W	6" W
SANITARY SEWER	8" SAS	8" SAS
STORM SEWER	36" SD	24" SD
FIRE HYDRANT	⊗	⊗
VALVE	⊗	⊗
WATER SERVICE (SINGLE)	—	—
WATER SERVICE (DOUBLE)	—	—
MANHOLE	⊗	⊗
STD CURB & GUTTER	—	—
DROP INLET	—	—
OVERHEAD ELEC	—	—
UNDERGROUND ELEC	—	—
GAS, TEL, TV	—	—
FLOWLINE ELEV.	FL 0.14	FL 0.14
TOP OF CURB ELEV.	99.3	99.31
SPOT ELEV.	x 16.7	16.7
SEWER SERVICE	—	—
RIGHT OF WAY	—	—
POWER POLE (GUYYED)	PP	PP
CHAIN LINK FENCE	x	x
CENTERLINE	—	—
RETAINING WALL	—	—
TOP OF ASPHALT ELEV.	TA 16.2	TA 16.2
SIGN	—	—
STREET LIGHT	—	—

NOTE: STATIONING BASELINE IS SOUTH R/W OF OSUNA RD. NE

KEYED NOTES

- EXISTING STD CURB & GUTTER
- EXISTING ARTERIAL PAVEMENT
- REMOVE & DISPOSE EXISTING CONCRETE DRIVEPAD, CURB & GUTTER AS NECESSARY. FROM STA 10+58.42 TO STA 13+18.26
- CONSTRUCT CONC VALLEY GUTTER PER STD DWG 2420
- CONSTRUCT DEPRESSED STD C & G PER STD DWG 2415
- CONSTRUCT MEDIAN C & G PER STD DWG 2415
- TRANSITION FROM 8" STD C & G TO 6" C & G THRU RETURN
- CONSTRUCT ARTERIAL PAVEMENT PER SECTION A
- CONSTRUCT 10' WIDE REC TRAIL
- CONSTRUCT HANDICAP RAMP PER DETAIL B
- LIMITS OF PAVING THIS CONTRACT
- EXISTING RETAINING WALL TO REMAIN
- EXISTING RETAINING WALL TO BE REMOVED & DISPOSED BY CONTRACTOR
- EXISTING STREET LIGHT TO BE RELOCATED TO BACK OF CURB BY CONTRACTOR. CONTRACTOR SHALL COORDINATE ALL WORK WITH PNM
- RELOCATE SIGN TO POSITION SHOWN

BRASHER & LORENZ
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Albuquerque, New Mexico 87110
Ph: 505-888-6088 Fax: 505-888-6188

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: **SUN VALLEY COMMERCIAL CENTER**
OSUNA RD - DECEL LANE
PLAN & PROFILE

DESIGN REVIEW COMMITTEE APPROVED JUN - 1 2001
CITY ENGINEER APPROVED JUN 2 2001

City Project No. **657081** Zone Map No. **E-15** Sheet **6** Of **11**

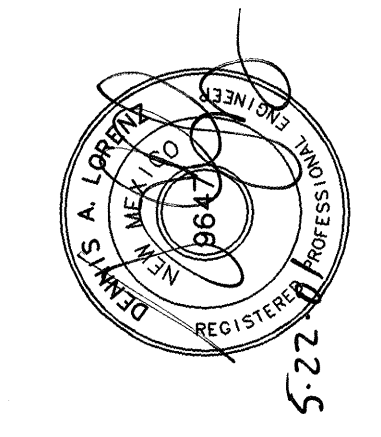
AS BUILT INFORMATION

CONTRACTOR: **Joiner**
WORK BY: **Survey** **500** **DATE July-Dec 01**
INSPECTION: **By Brasher & Lorenz** **12-21-01**
ACCEPTANCE: **By Brasher & Lorenz** **12-21-01**
VERIFICATION: **By Brasher & Lorenz** **12-21-01**
DRAWING NO.: **657081-1**
REVISIONS: **12-21-01**

SURVEY INFORMATION

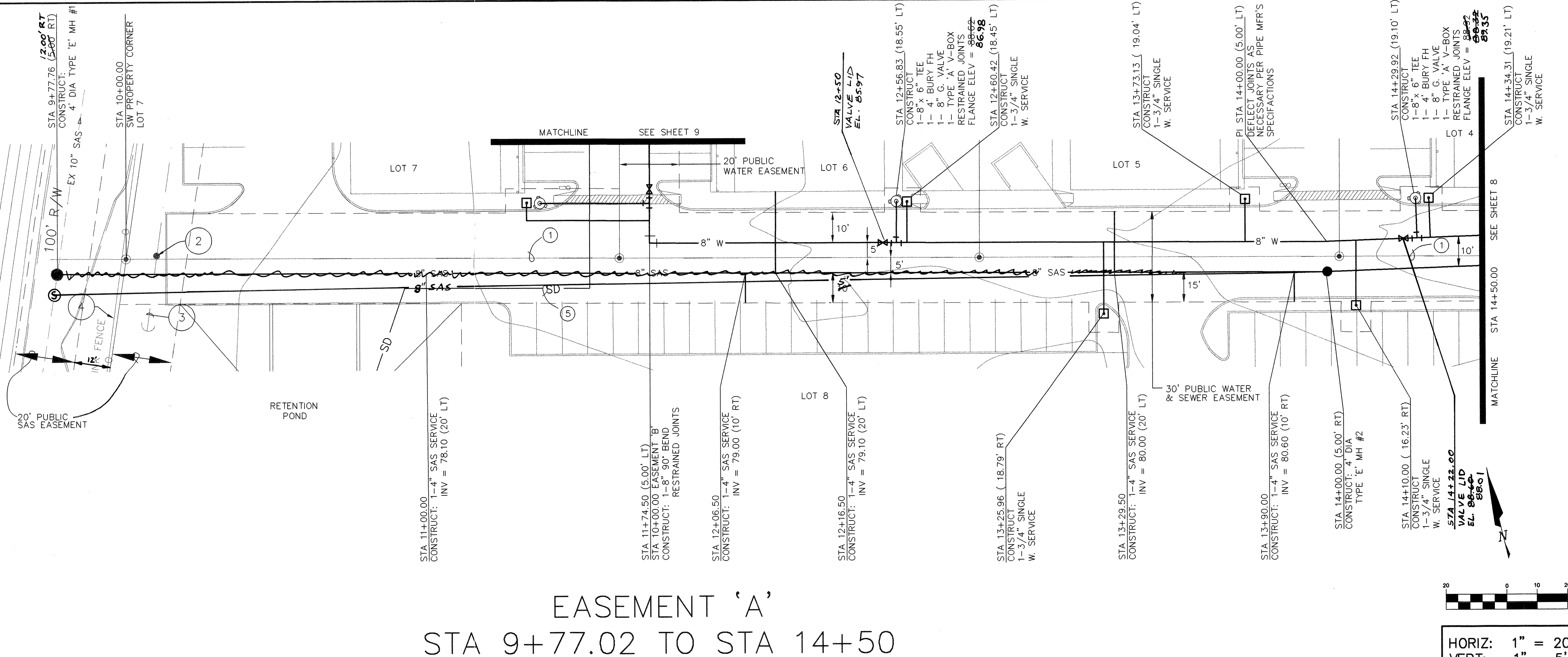
FIELD NOTES
NO. **1** BY **Joiner** DATE **12-21-01**

ENGINEER'S SEAL

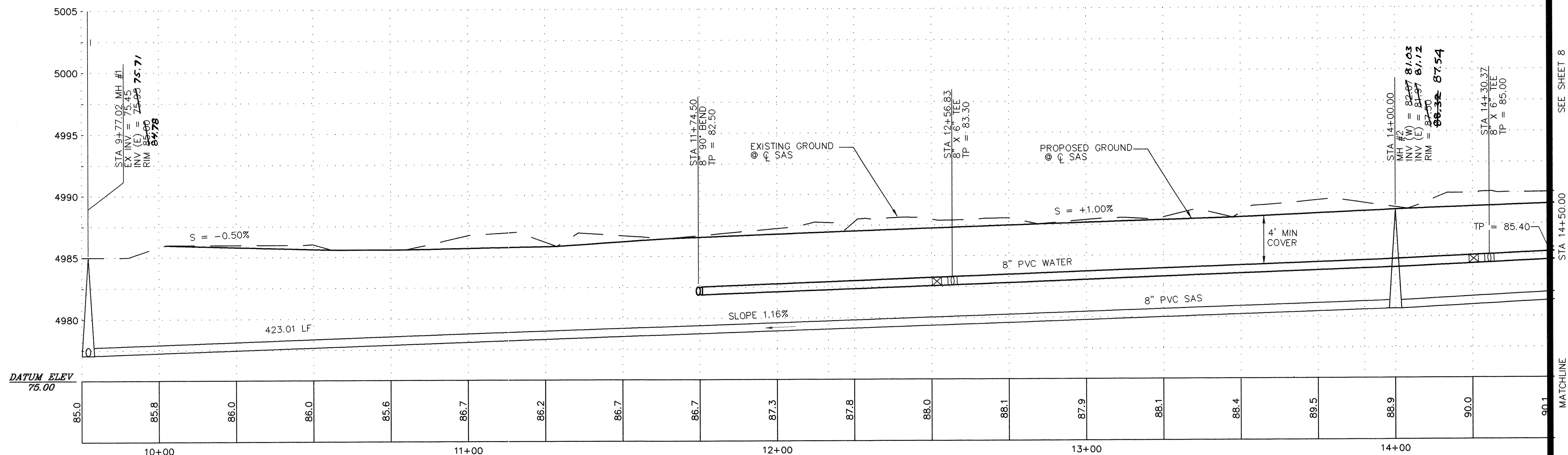


REVISIONS
NO. **1** DATE **12-21-01** BY **Joiner**
DESIGNED BY **DAL** DATE **11-2000**
DRAWN BY **MOB** DATE **11-2000**
CHECKED BY **DAL** DATE **11-2000**

A.T. + S.F. RAIL ROAD



EASEMENT 'A' STA 9+77.02 TO STA 14+50



RESTRAINED JOINT LENGTHS

- TEE BRANCH-EACH RUN PIPE SHALL BE MINIMUM 10' W/O JOINTS.
- DISTANCE SHOWN IS IN EACH DIRECTION FOR VALVES AND BENDS
- ALL DEAD END CAPS SHALL BE BLOCKED.

FITTING	LENGTH
8\"-TEE	54'
8\"-90°	31'
8\"-45°	13'
8\"-22 1/2°	7'
8\"-11 1/4°	4'
8\" G-VALVE	97'

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CONSULTING ENGINEERS
2201 San Pedro NE Building 1 Suite 220
Albuquerque, New Mexico 87110
Ph: 505-888-6088 Fax: 505-888-6188

**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP**

TITLE: **SUN VALLEY COMMERCIAL CENTER
EASEMENT 'A' STA 9+77.02 TO STA 14+50
WATER & SANITARY SEWER PLAN & PROFILE**

DESIGNED BY	DAL	DATE	11-2000
DRAWN BY	M.D.B.II	DATE	11-2000
CHECKED BY	DAL	DATE	11-2000

NO.	DATE	REMARKS	BY
REVISIONS DESIGN			

APPROVED: JUN 2 2 2001
DESIGN REVIEW COMMITTEE
CITY ENGINEER

City Project No.	657081	Zone Map No.	E-15	Sheet	7	Of	11
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KEYED NOTES

- STATIONING BASELINE
- EXISTING POWER POLE
- EXISTING ANCHOR
- EXISTING CHAIN LINK FENCE
- PRIVATE STORM DRAIN - DISCHARGE LINE FROM RETENTION POND - BY OTHERS - NIC

LEGEND

ITEM	EXISTING	PROPOSED
WATERLINE	6" W	6" W
SANITARY SEWER	8" SAS	8" SAS
STORM SEWER	36" SD	24" SD
FIRE HYDRANT		
VALVE		
WATER SERVICE (SINGLE)		
WATER SERVICE (DOUBLE)		
MANHOLE		
STD CURB & GUTTER		
DROP INLET		
OVERHEAD ELEC	OHE	OHE
UNDERGROUND ELEC, GAS, TEL, TV	UGT	UGT
FLOWLINE ELEV.	FL 0.14	FL 0.14
TOP OF CURB ELEV.	99.3	99.31
SPOT ELEV.	x 16.7	x 16.7
SEWER SERVICE		
RIGHT OF WAY		
POWER POLE (GUYYED)	PP	PP
CHAIN LINK FENCE		
CENTERLINE		
RETAINING WALL		
TOP OF ASPHALT ELEV.	TA 16.2	TA 16.2

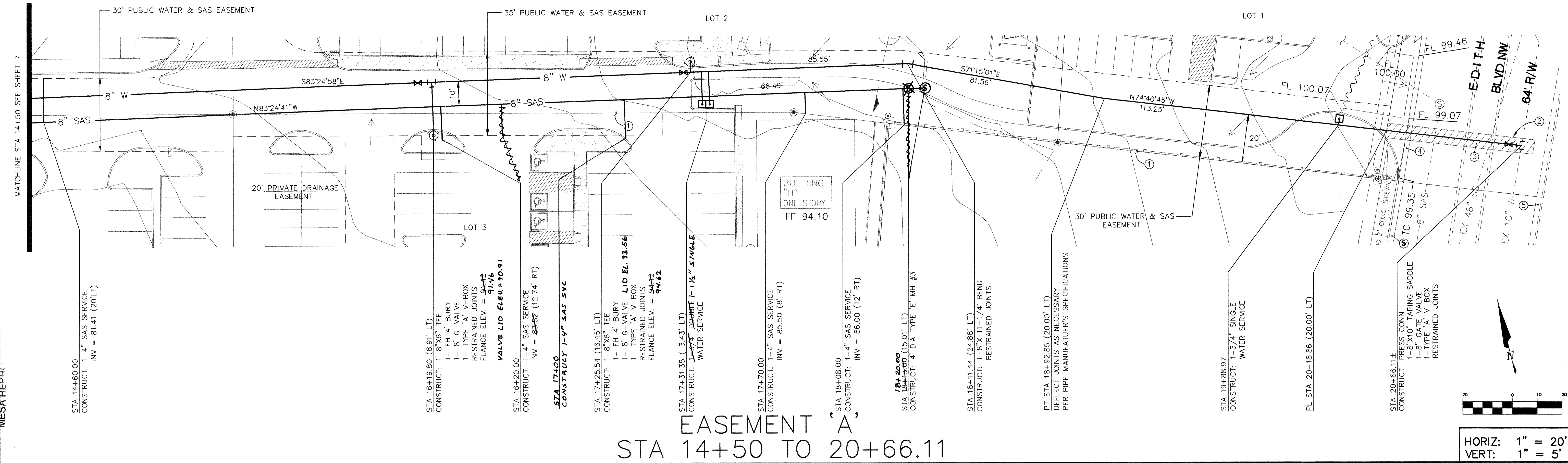
BENCH MARKS

NO.	FIELD NOTES	DATE
	BY	

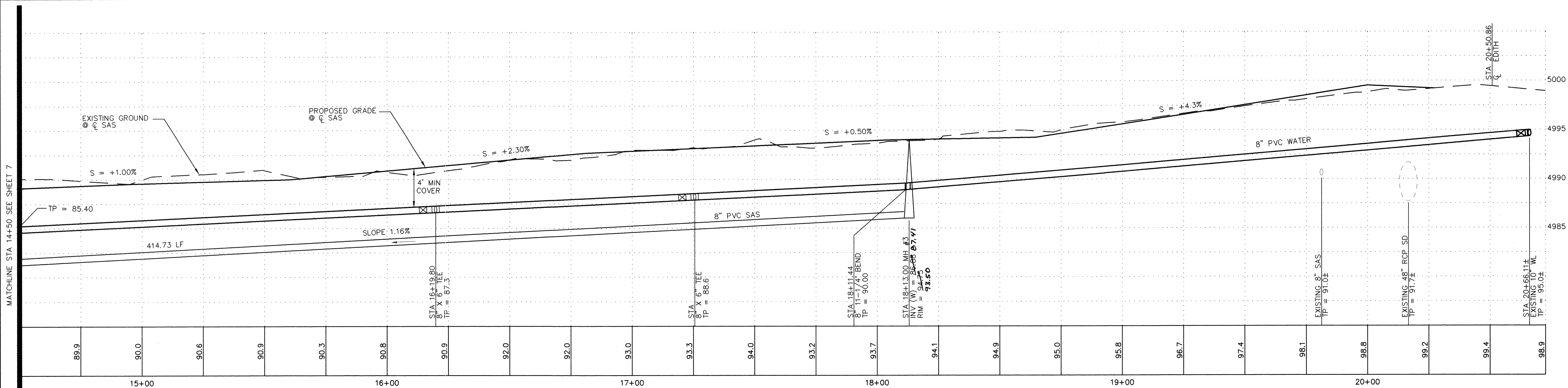
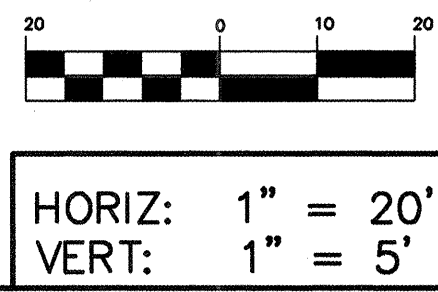
AS BUILT INFORMATION

CONTRACTOR	DATE
STARTED BY	DATE
ACCEPTANCE	DATE
CORRECTED BY	DATE
RECORDED BY	DATE





EASEMENT 'A' STA 14+50 TO 20+66.11



LEGEND			LEGEND		
ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
WATERLINE	6" W	6" W	FLOWLINE ELEV.	FL 0.14	FL 0.14
SANITARY SEWER	8" SAS	8" SAS	TOP OF CURB ELEV.	99.3	99.31
STORM SEWER	36" SD	24" SD	SPOT ELEV.	x 16.7	16.7
FIRE HYDRANT	⊙	⊙	SEWER SERVICE	—	—
VALVE	⊕	⊕	RIGHT OF WAY	—	—
WATER SERVICE (SINGLE)	—	—	POWER POLE (GUYED)	PP	PP
WATER SERVICE (DOUBLE)	—	—	CHAIN LINK FENCE	—	—
MANHOLE	⊙	⊙	CENTERLINE	—	—
MOUNTABLE CURB	—	—	RETAINING WALL	—	—
STD CURB & GUTTER	—	—	TOP OF ASPHALT ELEV.	TA 16.2	TA 16.2
DROP INLET	—	—			
OVERHEAD ELEC	OHE	OHE			
UNDERGROUND ELEC, GAS, TEL, TV	UGT	UGT			

KEYED NOTES

- STATIONING BASELINE
- LIMITS OF CONSTRUCTION
- REMOVE & REPLACE EXISTING STD. CURB & GUTTER AND MEDIAN CURB & GUTTER PER STD. DWG. 2415
- REMOVE & REPLACE PAVEMENT PER STD. DWG. 2465
- NEW CONCRETE VALLEY GUTTER BY OTHERS
- EXISTING STANDARD CURB AND GUTTER

RESTRAINED JOINT LENGTHS

- TEE BRANCH—EACH RUN PIPE SHALL BE MINIMUM 10' W/O JOINTS.
- DISTANCE SHOWN IS IN EACH DIRECTION FOR VALVES AND BENDS
- ALL DEAD END CAPS SHALL BE BLOCKED.

FITTING	LENGTH
8" TEE	54'
8" 90°	31'
8" 45°	13'
8" 22 1/2°	7'
8" 11 1/4°	4'
8" G-VALVE	97'

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: **SUN VALLEY COMMERCIAL CENTER**
EASEMENT 'A' STA 14+50 TO 20+66.11
PLAN & PROFILE

DESIGN REVIEW COMMITTEE

APPROVE

JAN 1 2001

CITY ENGINEER

APPROVE

JAN 2 2001

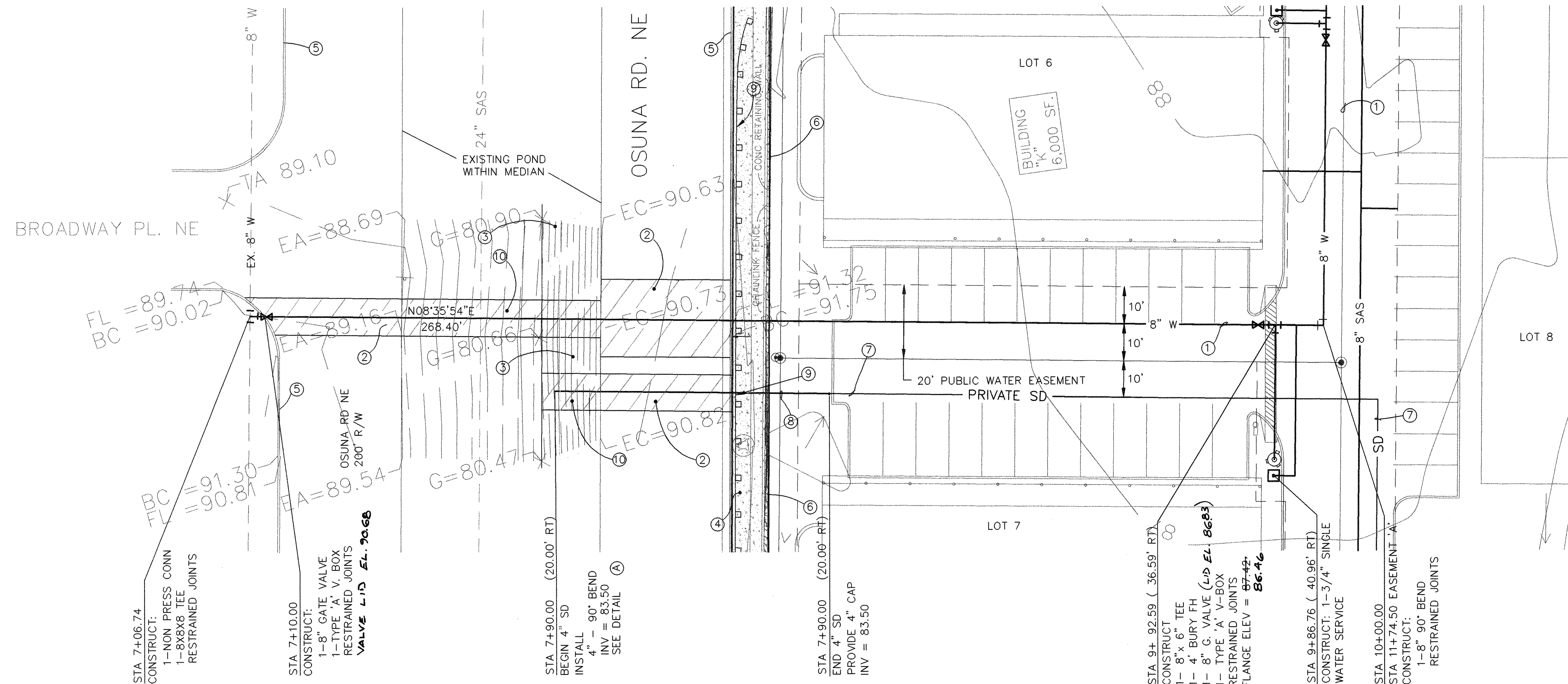
City Project No. **657081**

Zone Map No. **E-15**

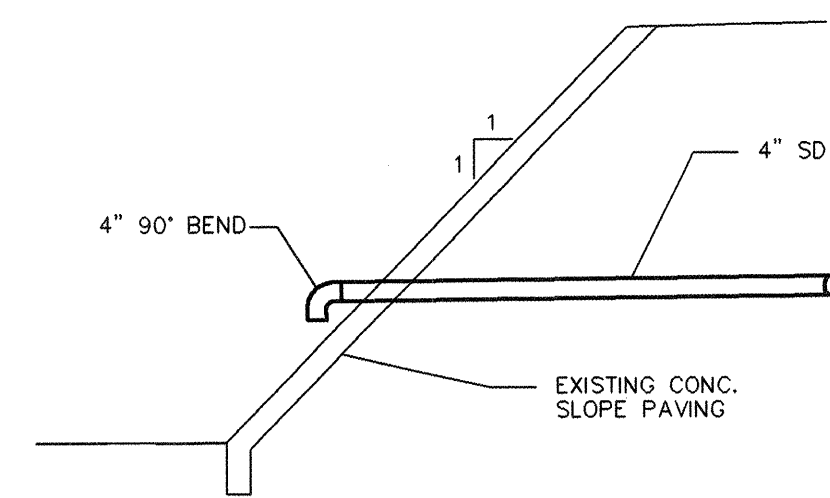
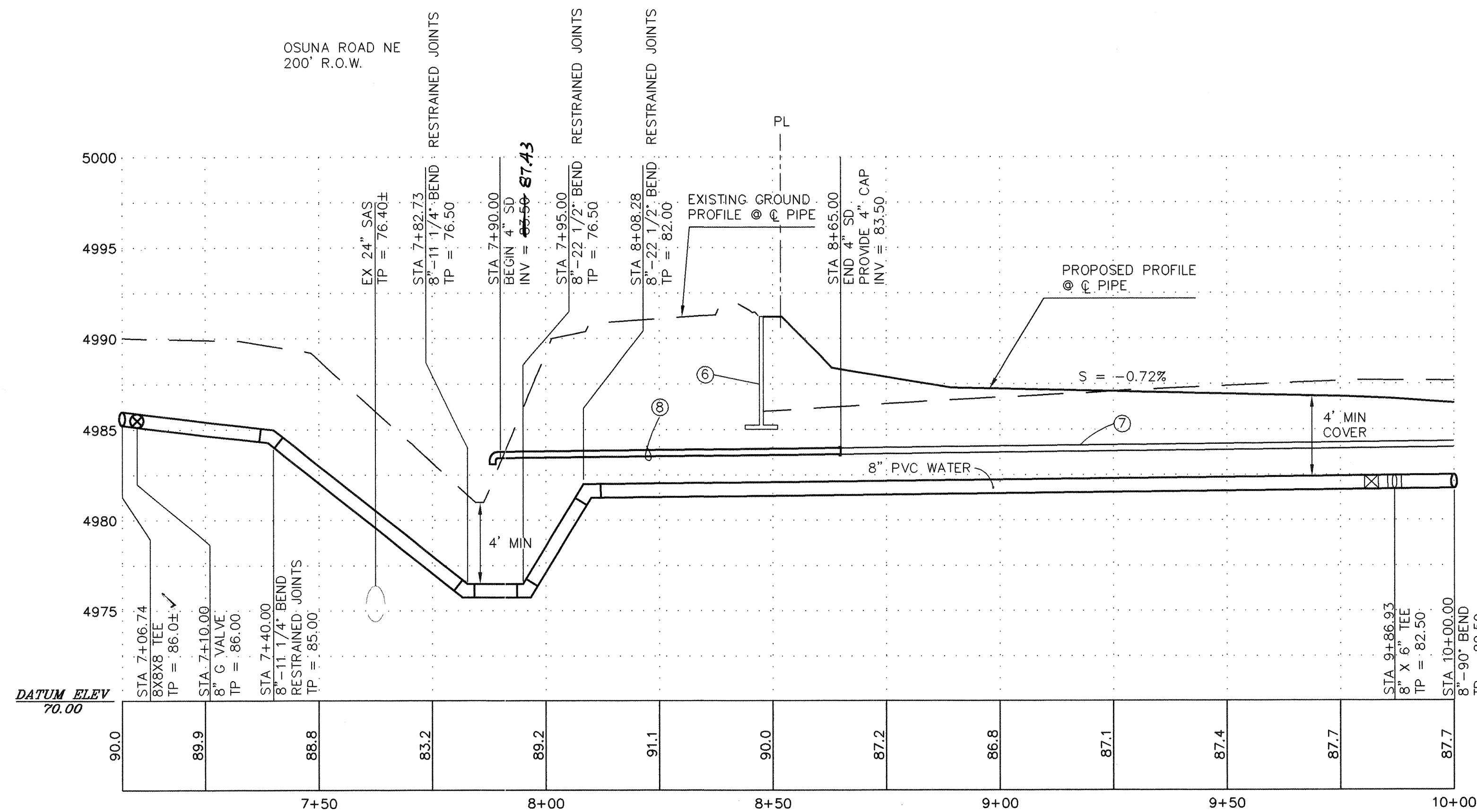
Sheet **8** Of **11**

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	FIELD NOTES	DATE	BY	CONTRACTOR	DATE
				ACS 1-3/4" ALUMINUM DISK, STAMPED "ACS BM, 18-E15", EPOXED ON TOP OF A CONCRETE DROP INLET, SOUTH SIDE OF CENTER MEDIAN OF OSUNA RD. NE, 176 FT ± EAST OF THE CENTERLINE OF EDITH BLVD. ELEV. = 5006.22 MSLD 1929	

ENGINEER'S SEAL		REVISIONS		DESIGN	
NO.	DATE	REMARKS	BY	DATE	DATE
				9-2000	9-2000
				9-2000	9-2000



EASEMENT 'B'



DETAIL A

ITEM	EXISTING	PROPOSED
WATERLINE	— 6" W —	— 6" W —
SANITARY SEWER	— 8" SAS —	— 8" SAS —
STORM SEWER	— 36" SD —	— 24" SD —
FIRE HYDRANT	⊙	⊙
VALVE	⋈	⋈
WATER SERVICE (SINGLE)	— □ —	— □ —
WATER SERVICE (DOUBLE)	— □ □ —	— □ □ —
MANHOLE	— ○ —	— ● —
STD CURB & GUTTER	==	==
DROP INLET	— □ —	— □ —
OVERHEAD ELEC	— OHE —	— OHE —
UNDERGROUND ELEC, GAS, TEL, TV	— UGT —	— UGT —
FLOWLINE ELEV.	— FL 0.14 —	— FL 0.14 —
TOP OF CURB ELEV.	== 99.3 ==	== 99.31 ==
SPOT ELEV.	× 16.7	⬥ 16.7
SEWER SERVICE	— 3 —	— 3 —
RIGHT OF WAY	— · · —	— · · —
POWER POLE (GUYED)	● PP	● PP
CHAIN LINK FENCE	— x —	— x —
CENTERLINE	— - - —	— - - —
RETAINING WALL	=====	=====
TOP OF ASPHALT ELEV.	— TA 16.2 —	— TA 16.2 —

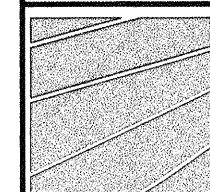
○ KEYED NOTES

1. STATIONING BASELINE
IS CENTERLINE OF 8" WATERLINE
2. LIMITS OF CONSTRUCTION REMOVE
& REPLACE ARTERIAL PAVEMENT
PER COA STD. DWG 2465
3. EXISTING CONCRETE SLOPE
PAVING
4. CONSTRUCT RECREATION TRAIL
SEE SHEET 5
5. EXISTING STD C&G
6. EXISTING RETAINING WALL
TO REMAIN
7. PRIVATE STORM DRAIN-
DISCHARGE FROM RETENTION
POND- BY OTHERS - NIC
8. CONSTRUCT 75 LF 4" PVC
STORM DRAIN
9. REMOVE EXISTING GUARD RAIL
RETURN TO CITY YARD
10. REMOVE AND REPLACE EXISTING
CONCRETE SLOPE PAVING
IN KIND TO LIMITS SHOWN

RESTRAINED JOINT LENGTHS

1. TEE BRANCH—EACH RUN PIPE SHALL BE MINIMUM 10' W/O JOINTS.
2. DISTANCE SHOWN IS IN EACH DIRECTION FOR VALVES AND BENDS
3. ALL DEAD END CAPS SHALL BE BLOCKED.

<u>FITTING</u>	<u>LENGTH</u>
8"-TEE	54'
8"-90°	31'
8"-45°	13'
8"-22 1/2°	7'
8"-11 1/4°	4'
8" G-VALVE	97'



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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: SUN VALLEY COMMERCIAL CENTER
EASEMENT 'B'
WATER PLAN & PROFILE

Design Review Committee		City Engineer Approval		Mo./Day/Yr.		Mo./Day/Yr.	
APPROVE JUN - 1 2001 DESIGN REVIEW COMMITTEE		APPROVE JUN 2 2 2001 CITY ENGINEER		Last Design Update			
City Project No. 657081		Zone Map No. E-15		Sheet 9		Of 11	

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

1. CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING PERMIT BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHTS-OF-WAY. EMERGENCY WORK THAT WOULD PRESERVE LIFE OR PROPERTY IS EXCLUDED WITH THE UNDERSTANDING, THAT A PERMIT SHALL BE OBTAINED WITHIN 24 TO 48 HOURS.

2. CONTRACTOR SHALL AT THE TIME OF PERMIT REQUEST, SUBMIT FOR APPROVAL BY CONSTRUCTION COORDINATION, A TRAFFIC CONTROL PLAN DETAILING ALL EXISTING TOPOGRAPHY SUCH AS LANE WIDTHS, DRIVEWAYS, AND BUSINESS/RESIDENTIAL ACCESSES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL PHASES OF WORK AND SCHEDULES INVOLVED IN THE CONSTRUCTION PROJECT. ANY SEPARATE PHASES OF A CONSTRUCTION PROJECT SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH. BLANKET PERMITS WILL NOT BE ISSUED.

3. THESE TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINESS/RESIDENTIAL ACCESSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.

4. CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.

5. CONSTRUCTION COORDINATION SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY TRAFFIC CONTROL CHANGES NEEDED BY CONTRACTOR, THAT WERE NOT PREVIOUSLY APPROVED. THESE TRAFFIC CONTROL CHANGES SHALL BE REQUESTED IN WRITING ACCOMPANIED WITH A TRAFFIC CONTROL PLAN REFLECTING SUCH CHANGES.

6. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION, PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

7. THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET-UP SHALL BE BY AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED WORKSITE TRAFFIC SUPERVISOR. THE MAINTENANCE AND SERVICING SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORKSITE TRAFFIC SUPERVISOR OR EQUIVALENT.

8. CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND SERVICE ALL TRAFFIC CONTROL DEVICES 24 HOURS A DAY, 7 DAYS A WEEK THROUGHOUT LENGTH OF PROJECT. CONTRACTOR IS RESPONSIBLE THAT ALL TRAFFIC CONTROL DEVICES COMPLY WITH THE MUTCD, LATEST EDITION.

9. ALL ADVANCE WARNING SIGNS SHALL BE DOUBLE INDICATED WHENEVER THERE ARE MULTI-LANE TRAFFIC IN ANY ONE GIVEN DIRECTION AND THERE IS SUFFICIENT MEDIAN SPACE.

10. ALL BARRICADES IN ALL TAPERS AND TANGENTS SHALL BE PLACED APART, A DISTANCE MEASURED IN FEET, EQUAL TO THAT OF THE POSTED SPEED LIMIT. NO EXCEPTIONS UNLESS APPROVED BY CONSTRUCTION COORDINATION PER MUTCD SECTION 6A-4.

11. CONTRACTOR SHALL NOT BEGIN WORK BEFORE 7:00 A.M. OR END WORK AFTER 7:00 P.M. WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

12. CONTRACTOR IS RESPONSIBLE TO PROVIDE CONSTRUCTION COORDINATION, A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.

13. EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELLED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

14. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.

15. CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.

16. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.

17. CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF CONSTRUCTION COORDINATION. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE OPAQUE LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE BID AND NOT PART OF THE CONTRACT UNLESS OTHERWISE STATED. NO MORE THAN 3 BUSINESSES SHALL BE LISTED ON A ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.

18. ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE. CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

19. 24 HOURS PRIOR TO OCCUPYING OR CLOSING OF A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.

20. ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

21. EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.

22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
1. STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
2. THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
3. SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.

23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO IT'S PLACEMENT AND MAINTENANCE.

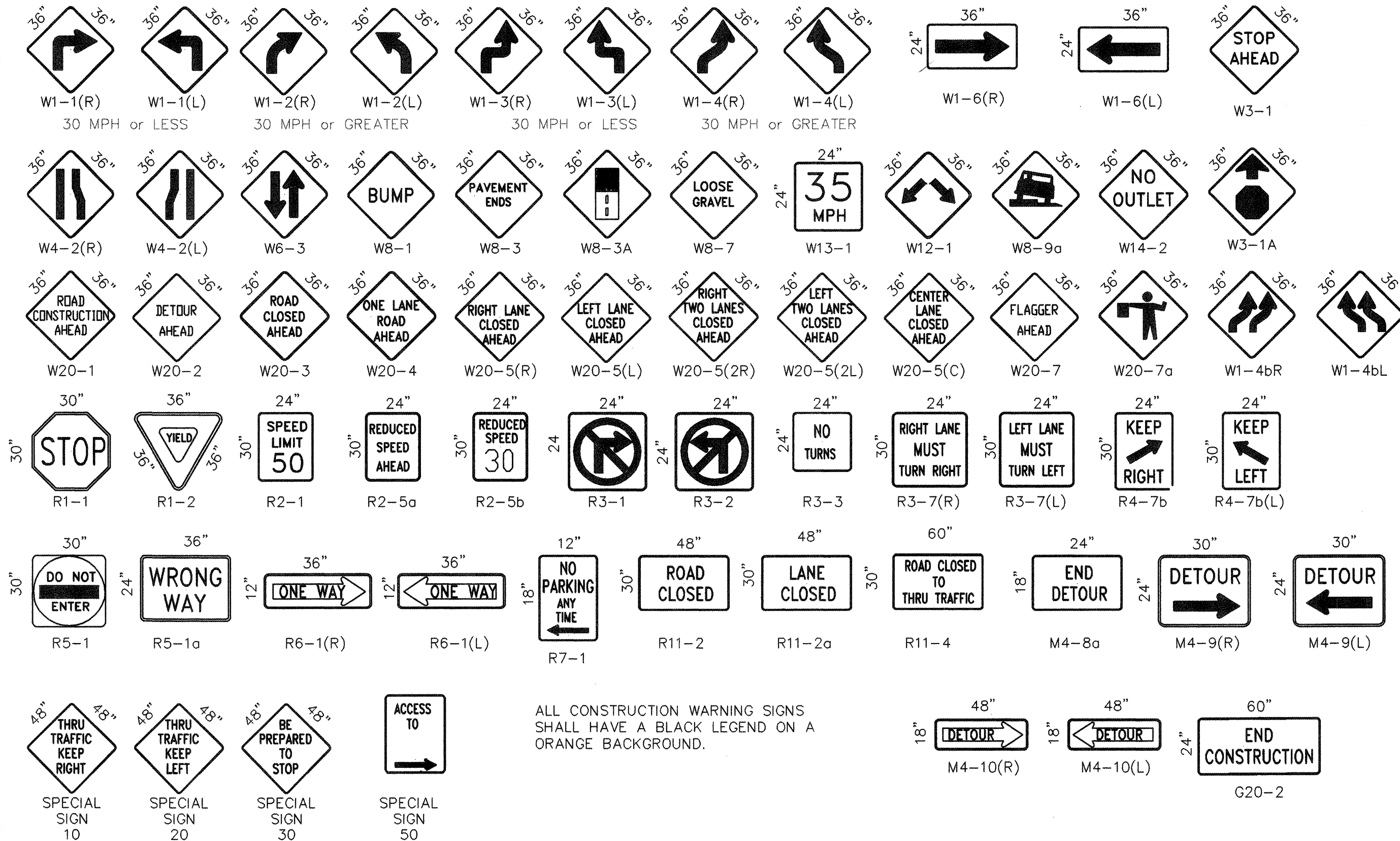
25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

26. ADVANCE WARNING SIGNS SHALL BE 36"x36" WITH SUPER ENGINEERING GRADE SHEETING OR BETTER.

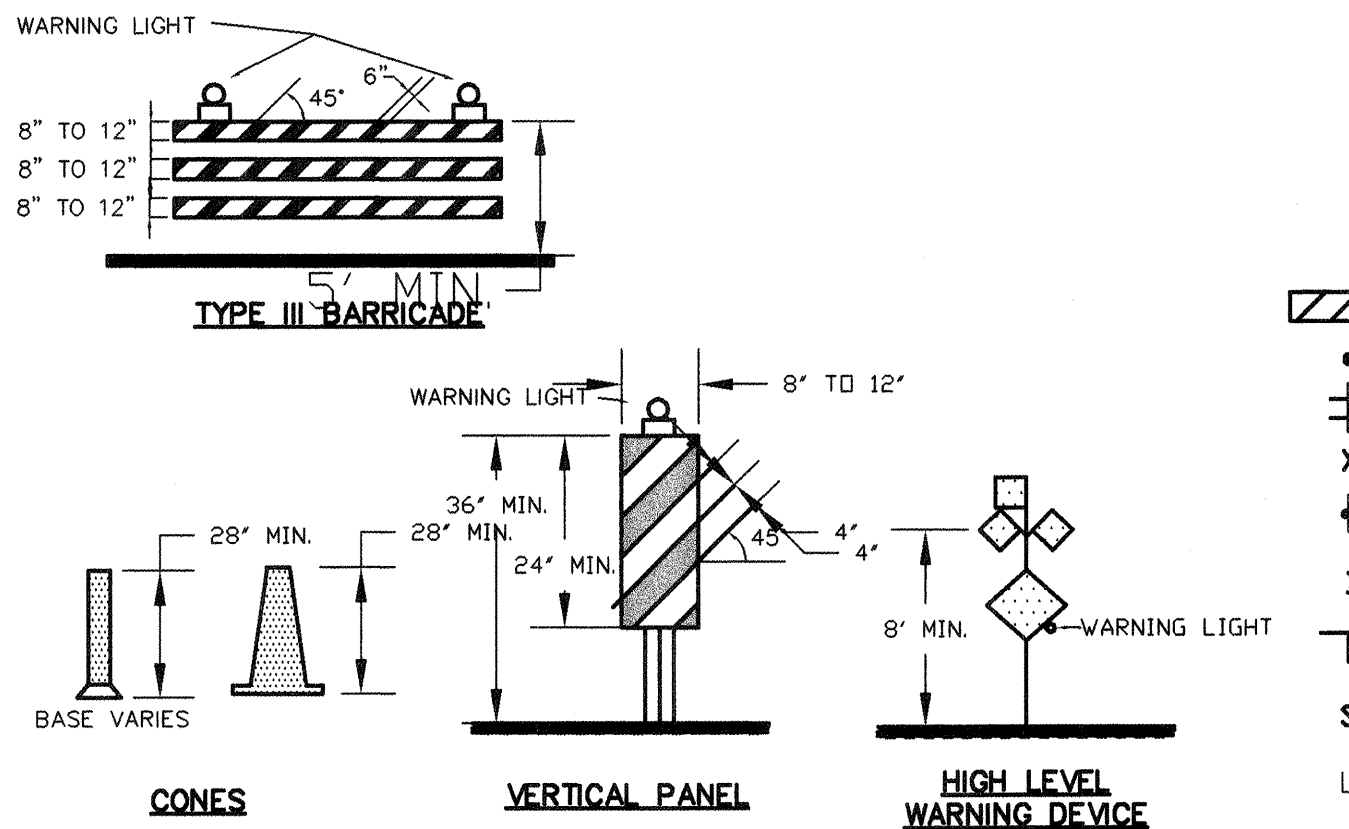
SPECIAL PROJECT TRAFFIC CONTROL NOTES

- Contractor shall perform as much work as possible behind the existing curb and gutter prior to effecting traffic lanes on Osuna Blvd.
- Arterial road usage fees of \$0.01 per square foot of barricaded area per day will be assessed on Edit Blvd. and Osuna Road.
- Contractor must maintain at least one lane of eastbound and westbound traffic on Osuna Road at all times. No traffic splits will be allowed.
- Lane closures on Osuna Road will be limited to between the hours from 9:00 a.m. to 3:00 p.m., Monday through Fridays, or from 7:00 p.m. to 5:00 a.m. If the contractor must leave a lane closed at the end of the work shift due to safety reasons, the contractor shall work continuously until 10:00 p.m. each day to complete the work.
- Contractor must maintain at least one lane of northbound and southbound traffic on Edith Blvd. at all times.
- Lane closures on Edith Blvd. will be limited to between the hours from 9:00 a.m. to 3:00 p.m., Monday through Fridays, or from 7:00 p.m. to 5:00 a.m.

SIGN FACE DETAILS



ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.



- LEGEND**
- WORK AREA
 - BARRICADE - TYPE I, TYPE II, OR BARREL
 - BARRICADE - TYPE III
 - VERTICAL PANEL
 - WARNING SIGN
 - DISTANCE BETWEEN SIGNS - A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET
 - FLAGMAN POSITION
 - SPACING BETWEEN BARRICADES- A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET
 - L TAPER LENGTH - SEE CHART BELOW
- THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.

TAPER REQUIREMENTS

SPEED LIMIT (MPH)	TAPER LENGTH (L) (FEET)			MINIMUM NUMBER OF DEVICES FOR TAPER	MAXIMUM DEVICE SPACING IN FEET	
	10' LANE	11' LANE	12' LANE		ALONG TAPER	AFTER TAPER
20	70	75	80	5	20	20
25	105	115	125	6	25	25
30	150	165	180	7	30	30
35	205	225	245	8	35	35
40	270	295	320	9	40	40
45	450	495	540	13	45	45
50	500	550	600	13	50	50
55	550	605	660	13	55	55

RECOMMENDED SIGN SPACING<D> FOR ADVANCE WARNING SIGN SERIES

SPEED MILES PER HOUR	MINIMUM DISTANCE IN FEET BETWEEN SIGNS	FROM LAST SIGN TO TAPER
0-20	10 X SPEED LIMIT	10 X SPEED LIMIT
25-30	10 X SPEED LIMIT	10 X SPEED LIMIT
30-35	10 X SPEED LIMIT	10 X SPEED LIMIT
40-45	10 X SPEED LIMIT	10 X SPEED LIMIT
50-60	10 X SPEED LIMIT	10 X SPEED LIMIT

TAPER CRITERIA

TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTING TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTEAM TAPERS	100 FEET PER LANE

TAPER LENGTH COMPUTATION

SPEED LIMIT

40 MPH OR LESS	$L = \frac{W^2}{60}$
45 MPH OR GREATER	$L = W \times S$

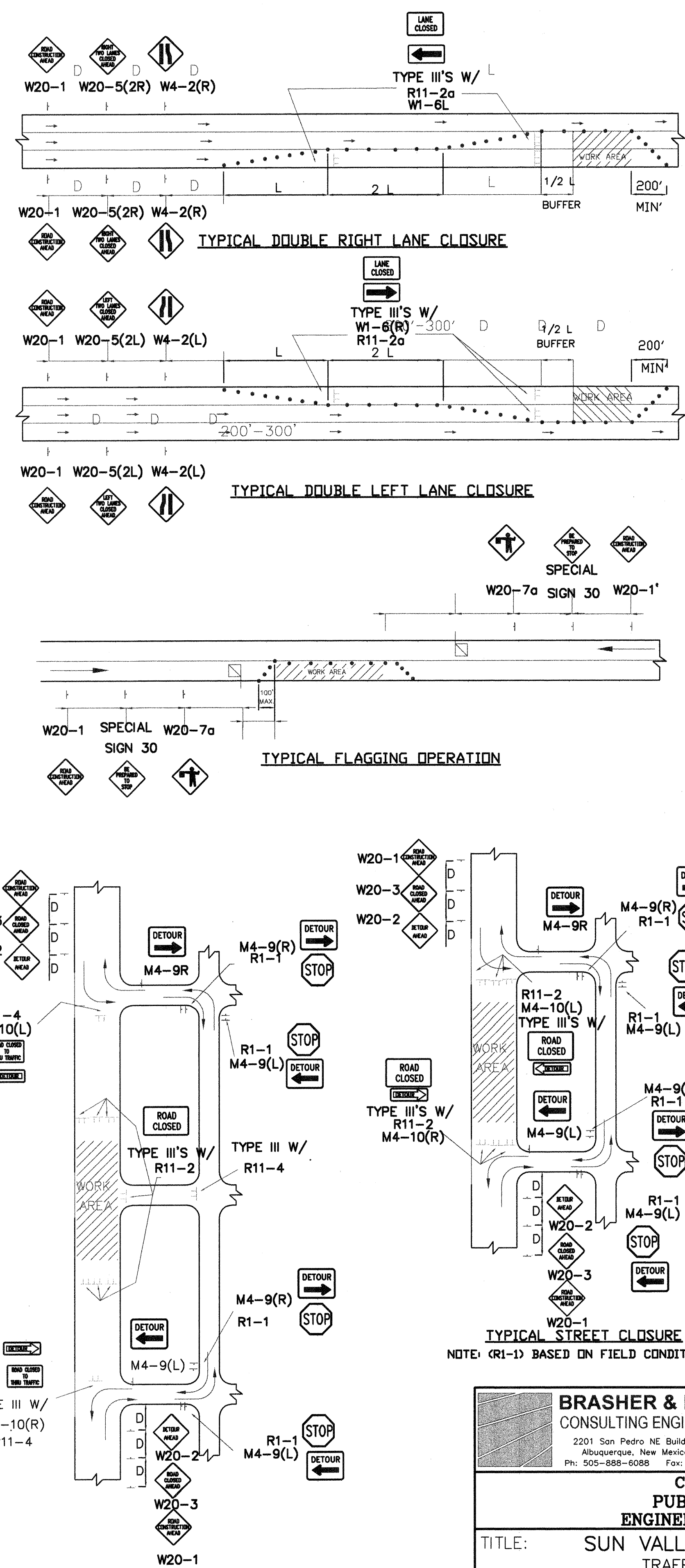
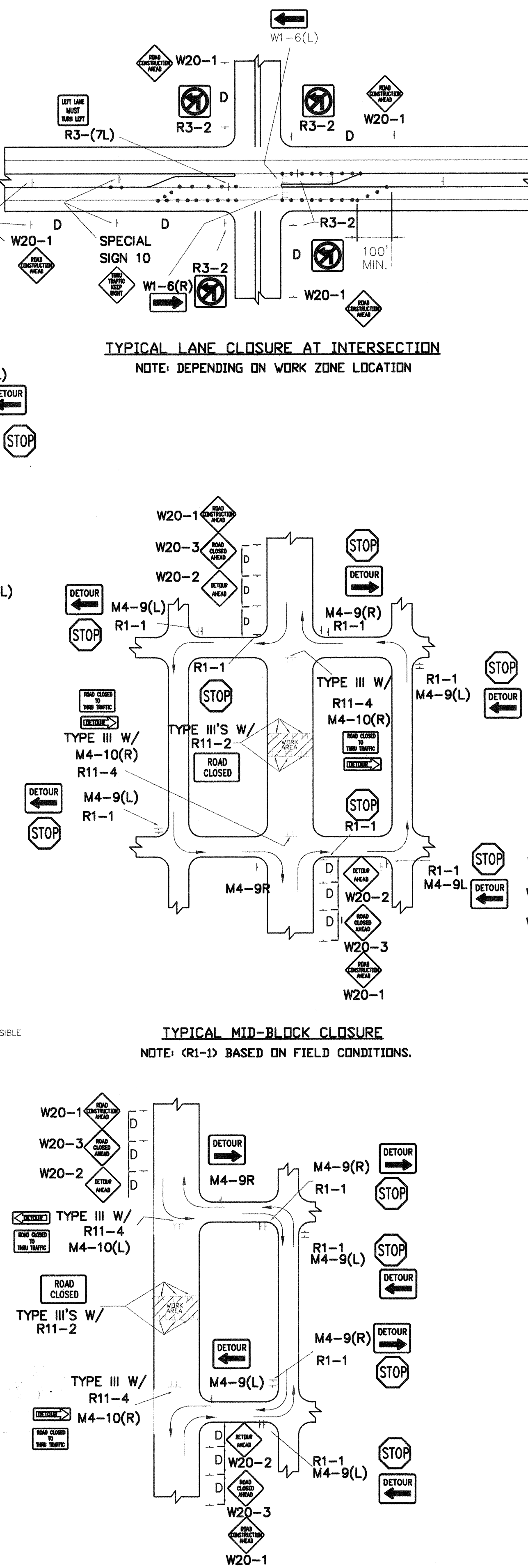
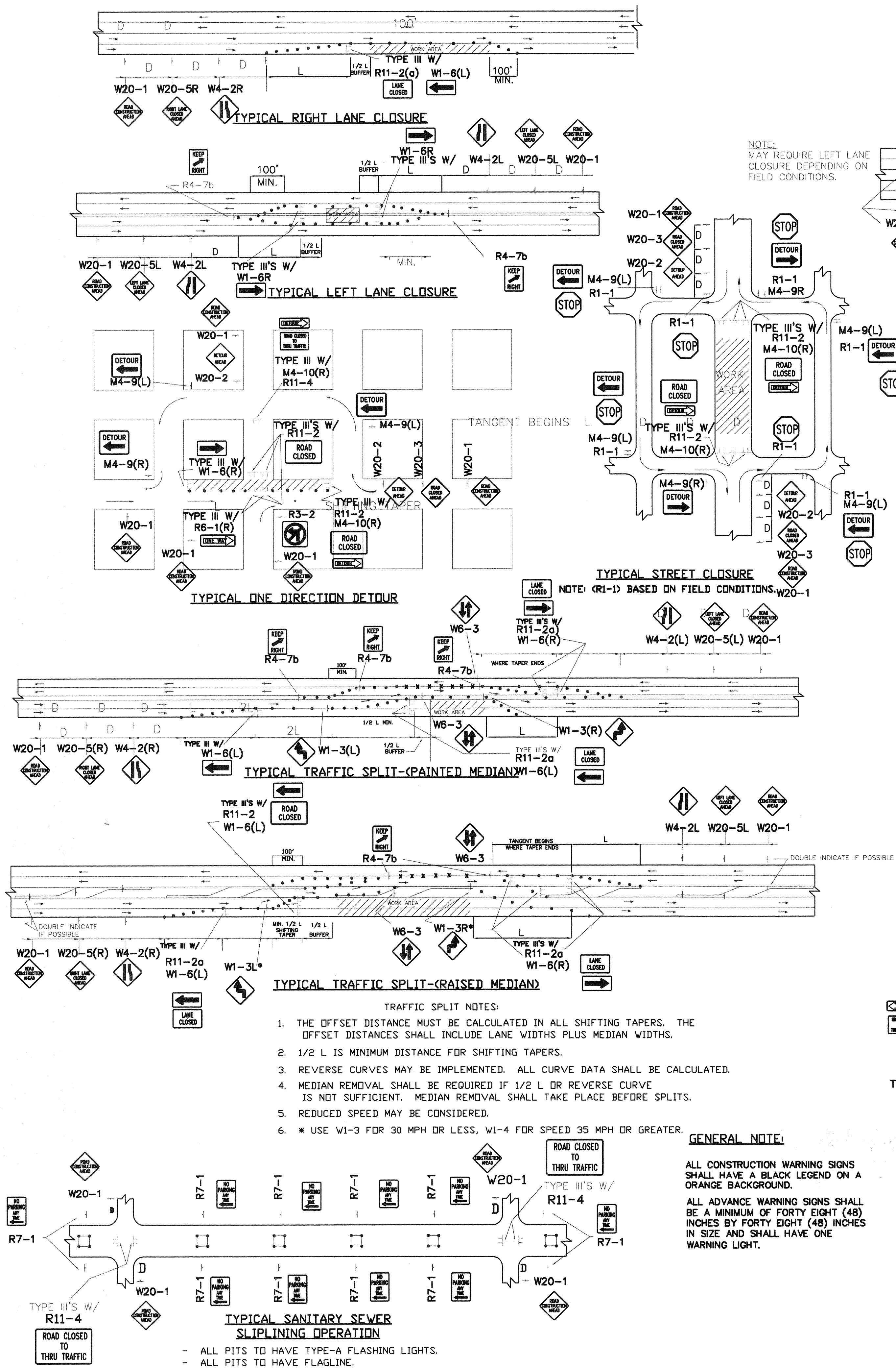
L = TAPER LENGTH
W = WIDTH OF OFFSET IN FEET
S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: SUN VALLEY COMMERCIAL CENTER
TRAFFIC CONTROL DETAILS

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
COA	STD		
City Project No.	Zone Map No.	Sheet	Of
657081	E-15	10	11



ERQUE ARTMENT MENTAL CENTER TAILS		Mo./Day/Yr.		Mo./Day/Yr.	
Sheet 11 Of 11					
NO. DATE		REVISIONS		BY	
DESIGNED BY		DATE		9-2000	
DRAWN BY		DATE		9-2000	
CHECKED BY		DATE		9-2000	
ENGINEER'S SEAL				3-7-01	
SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.				CONTRACTOR	
				WORK	
				DATED BY	
				INSPECTED BY	
				ACCEPTANCE BY	
				DATE	
				VERIFICATION BY	
				DATE	
				DRAWINGS	
				CORRECTED BY	
				DATE	
				MICRO-FILM INFORMATION	
				RECORDED BY	
				DATE	
				NO.	