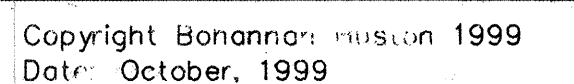


INDEX

COA INSPECTOR: U FRANCO

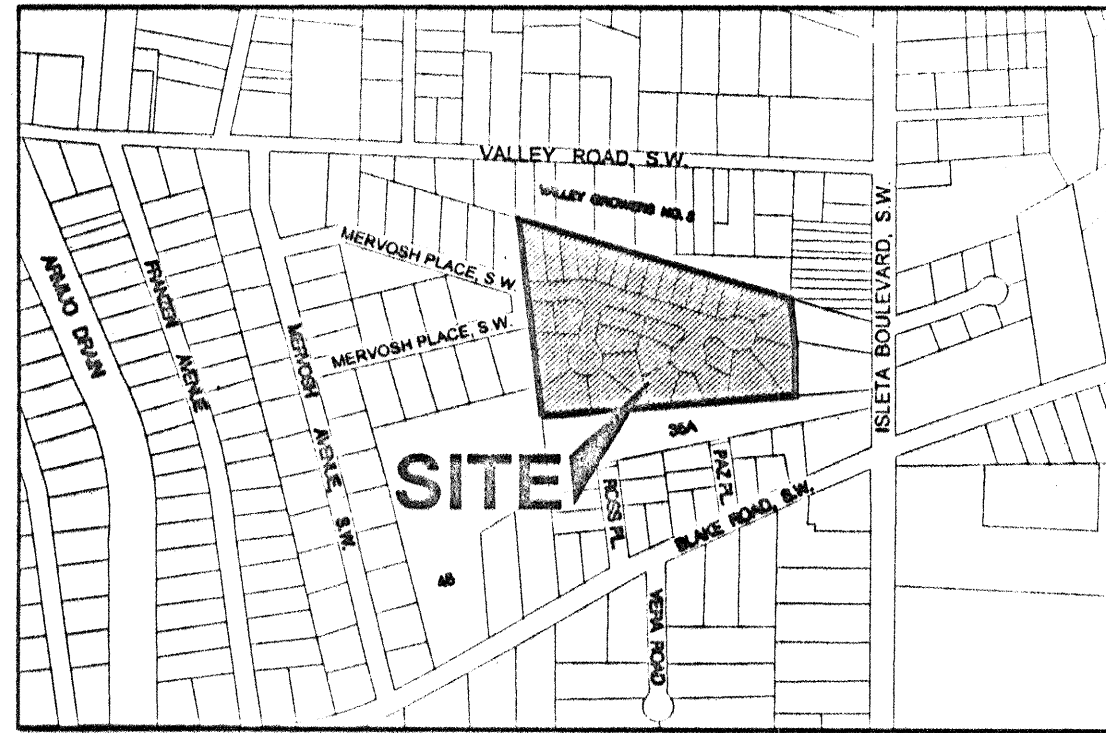
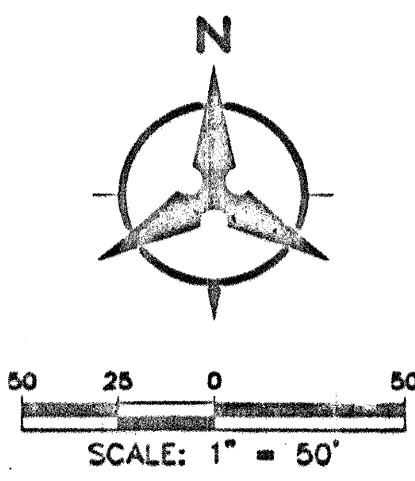
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS



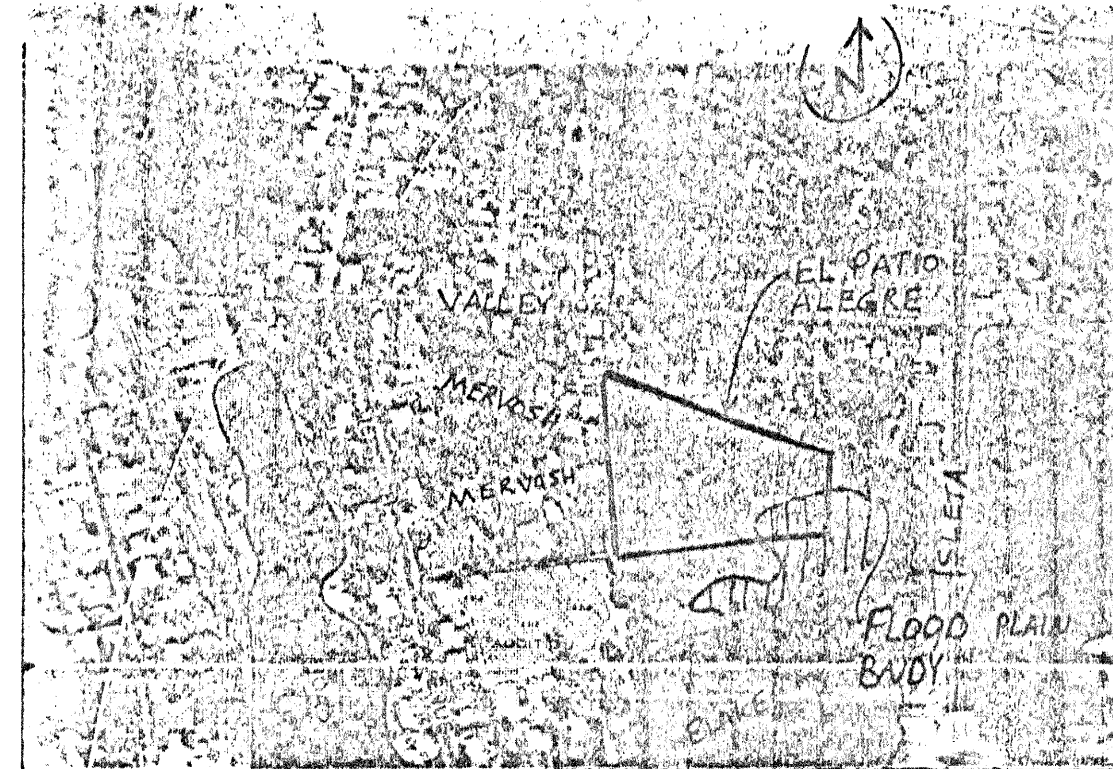
DT-146

FOR REFERENCE ONLY

2



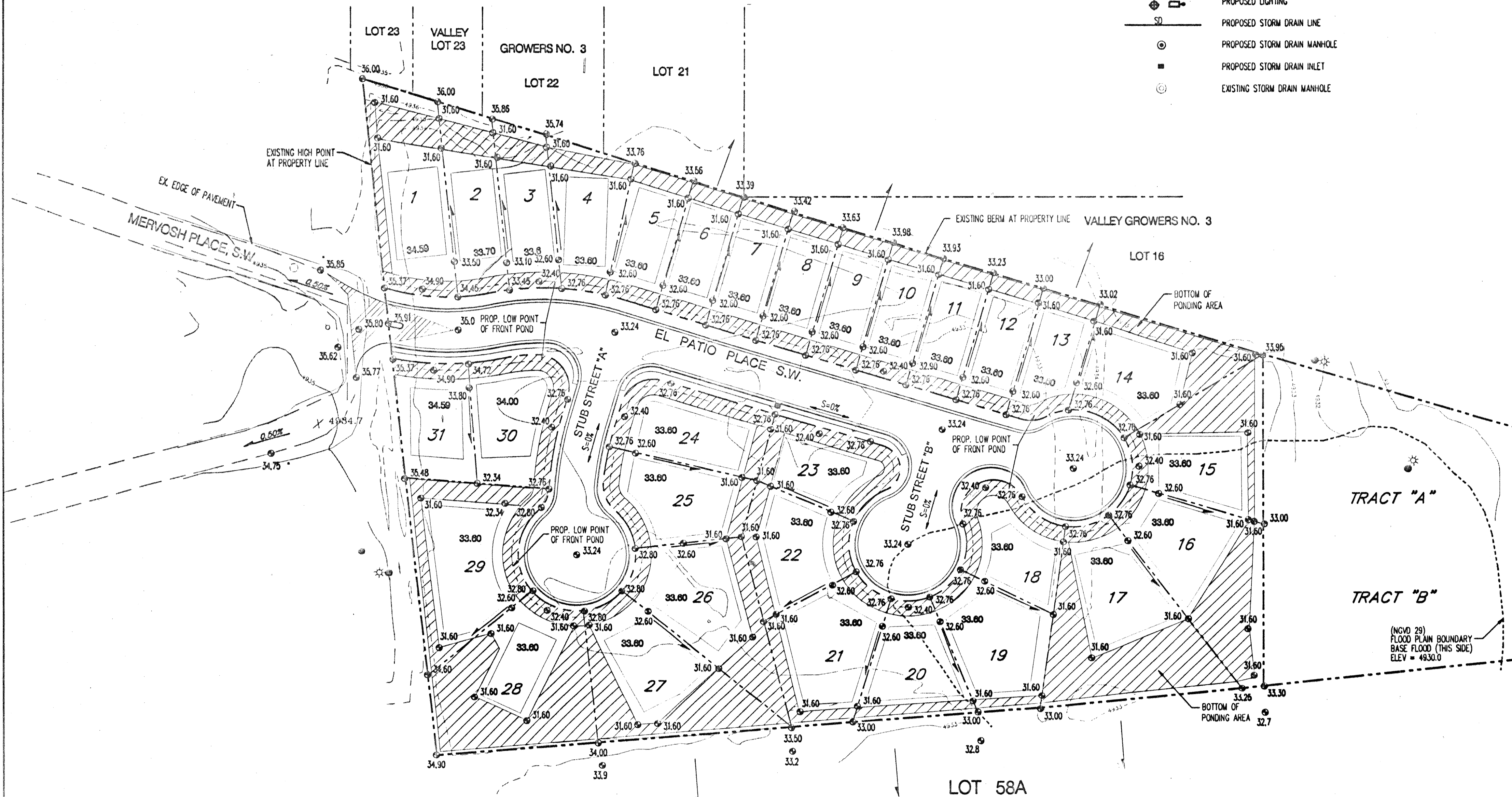
VICINITY MAP
ZONE MAP No. N-12-2



FIRM MAP
PANEL 341 OF 825

LEGEND

- PROPERTY LINE
- 53.01 — EXISTING CONTOURS
- X EXISTING GROUND SPOT ELEVATION
- ⊙ EXISTING ELECTRICAL POLE
- 76.00 PROPOSED SPOT ELEVATION
- TC=TOP OF CURB, FL=FLOW LINE
- TW=TOP OF WALL, BW=BOTTOM OF WALL
- EX=EXISTING, TC=TOP OF GRADE
- S=0.8% — PROPOSED DIRECTION OF FLOW
- WATER BLOCK
- 53.05 — PROPOSED RETAINING WALL
- 53.05 — PROPOSED INDEX CONTOURS
- 53.01 — PROPOSED INTER CONTOURS
- PROPOSED CURB & GUTTER
- CASEMENT
- ⊙ EXISTING TREE
- ⊙ PROPOSED LIGHTING
- SD — PROPOSED STORM DRAIN LINE
- ⊙ PROPOSED STORM DRAIN MANHOLE
- PROPOSED STORM DRAIN INLET
- ⊙ EXISTING STORM DRAIN MANHOLE



GENERAL NOTES

1. ALL WORK DETAILED ON THESE PLANS AND PERFORMED UNDER THIS CONTRACT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE PROJECT GEOTECHNICAL REPORT. WHERE APPLICABLE, CITY OF ALBUQUERQUE PUBLIC WORKS STANDARDS SHALL APPLY.
2. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS.
3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION OBSERVER OR ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
4. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE FOR LOCATION OF EXISTING UTILITIES.
5. ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.
6. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION OBSERVER.
7. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
8. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.
9. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E., BARRICADING, TOPSOIL DISTURBANCE, EXCAVATION PERMITS, ETC.).
10. ALL PROPERTY CORNERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED LAND SURVEYOR.
11. THE CONTRACTOR SHALL PREPARE A CONSTRUCTION TRAFFIC CONTROL AND SIGNING PLAN AND OBTAIN APPROVAL OF SUCH PLAN FROM THE CITY OF ALBUQUERQUE, TRAFFIC ENGINEERING DEPARTMENT, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS.
12. ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), US DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
13. THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADES AT THE END AND BEGINNING OF EACH DAY.
14. LOTS 15-20 IN FLOOD PLAIN

GRADING NOTES

1. EXCEPT AS PROVIDED HEREIN, GRADING SHALL BE PERFORMED AT THE ELEVATIONS AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS PLAN.
2. THE COST FOR REQUIRED CONSTRUCTION DUST AND EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO THE PROJECT COST.
3. ALL WORK RELATIVE TO FOUNDATION CONSTRUCTION, SITE PREPARATION, AND PAVEMENT INSTALLATION, AS SHOWN ON THIS PLAN, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "GEOTECHNICAL INVESTIGATION," AS PROVIDED BY THE ARCHITECT OR OWNER. ALL OTHER WORK SHALL, UNLESS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT, (FIRST PRIORITY) SPECIFICATIONS, AND/OR THE CITY OF ALBUQUERQUE (COA) STANDARD SPECIFICATIONS FOR PUBLIC WORKS (SECOND PRIORITY).
4. EARTH SLOPES SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL UNLESS SHOWN OTHERWISE.
5. IT IS THE INTENT OF THESE PLANS THAT THIS CONTRACTOR SHALL NOT PERFORM ANY WORK OUTSIDE OF THE PROPERTY BOUNDARIES EXCEPT AS REQUIRED BY THIS PLAN.
6. THE CONTRACTOR IS TO ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHT-OF-WAY. THIS SHOULD BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AT THE PROPERTY LINES PER DETAIL ON SHEET C203 AND METTING THE SOIL TO PROTECT IT FROM WIND EROSION.
7. A DISPOSAL SITE FOR ANY & ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL AND/OR A BORROW SITE CONTAINING ACCEPTABLE FILL MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL OR BORROW SITE AND HAUL TO OR FROM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.
8. PAVING AND ROADWAY GRADES SHALL BE +/- 0.1' FROM PLAN ELEVATIONS. PAD ELEVATION SHALL BE +/- 0.05' FROM BUILDING PLAN ELEVATION.
9. ALL PROPOSED CONTOURS REFLECT TOP OF PAVEMENT ELEVATIONS IN THE PARKING AREA AND MUST BE ADJUSTED FOR MEDANS AND ISLANDS.

PROJECT BENCHMARK
A 1 1/2" DIA. ALUMINUM SURVEY WASHER SET IN ASPHALT WITH A PK NAIL STAMPED "BH 113 3"
LOCATED IN THE NORTHEAST CORNER OF THE INTERSECTION OF BLAKE ROAD AND ISLETA BOULEVARD
ELEVATION = 4933.66'

FOR REFERENCE ONLY



Bernalillo County
Public Works Department
State of New Mexico



Bohannon & Huston
Certified On 7500 Jefferson NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

Date Drawn: 8/99

Revisions:	
1	
2	
3	
4	
5	

Drawn By: LDR

Checked By: BLB

Project Title
EL PATIO ALEGRE
SUBDIVISION

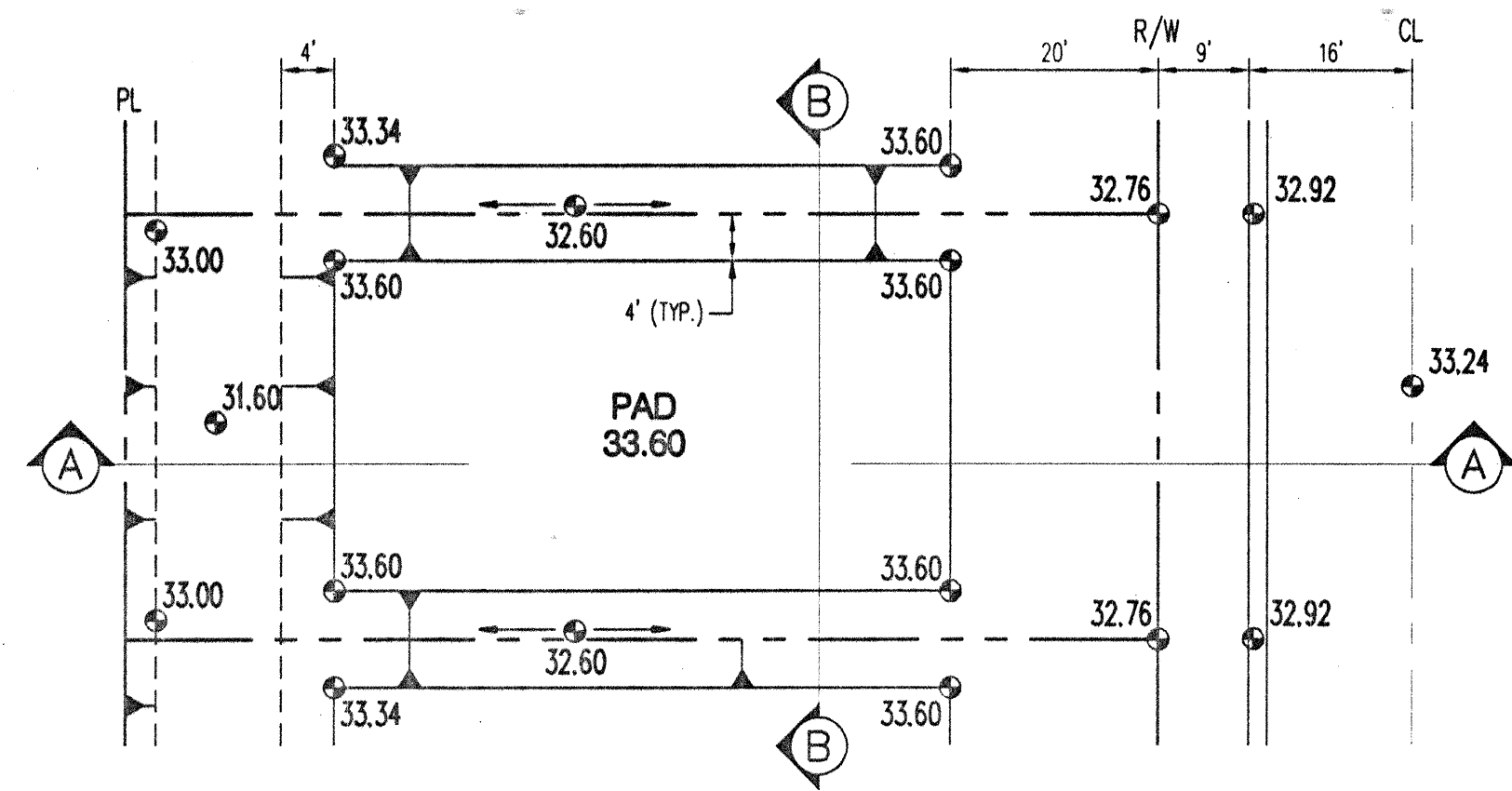
Sheet Title
EL PATIO ALEGRE
SUBDIVISION
GRADING PLAN

Scale: 1" = 50'

Sheet Number
3

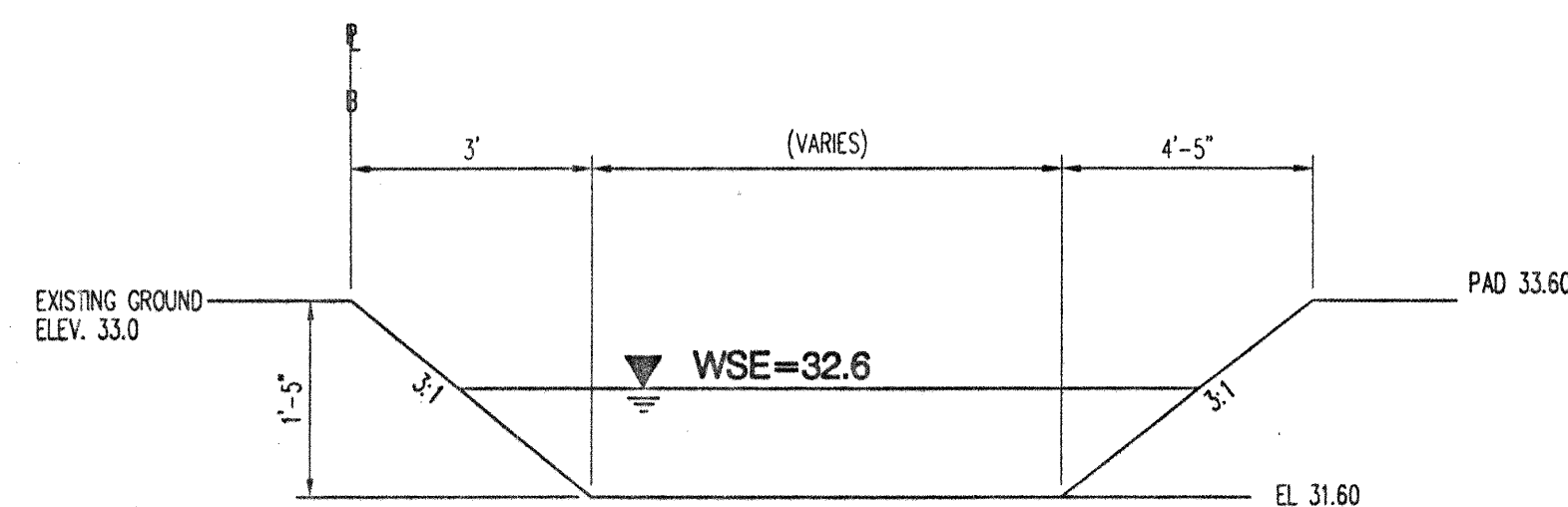
BH JOB NO. 00113

Copyright Bohannon Huston 1999
Date: 8/16/99

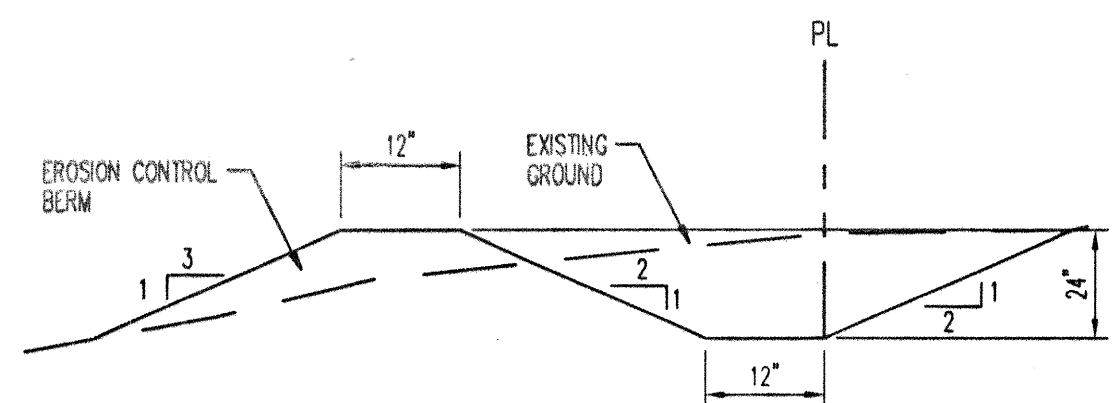


TYPICAL LOT GRADING PLAN
(SEE GRADING PLAN FOR SPOT ELEVATIONS)
N.T.S.

NOTE:
RUN-OFF GENERATED IN BACK YARDS AND SIDE
YARDS IS RETAINED IN BACKYARD PONDS
UNLESS OTHERWISE SHOWN. ALL ROOF RUNOFF
DRAINS TO THE FRONT.

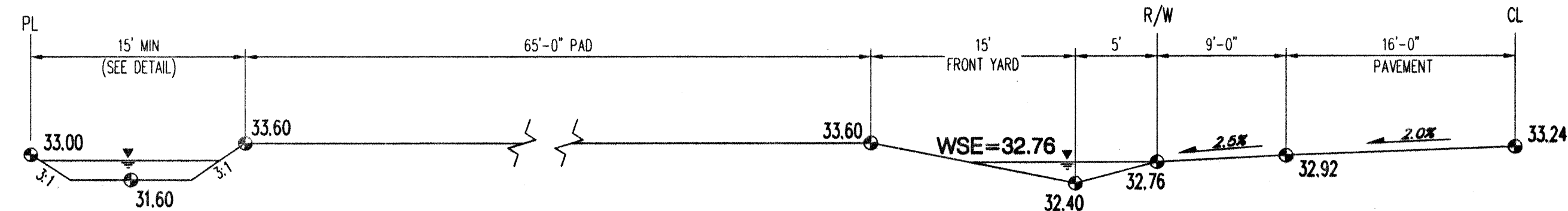


BACK YARD POND DETAIL
N.T.S.

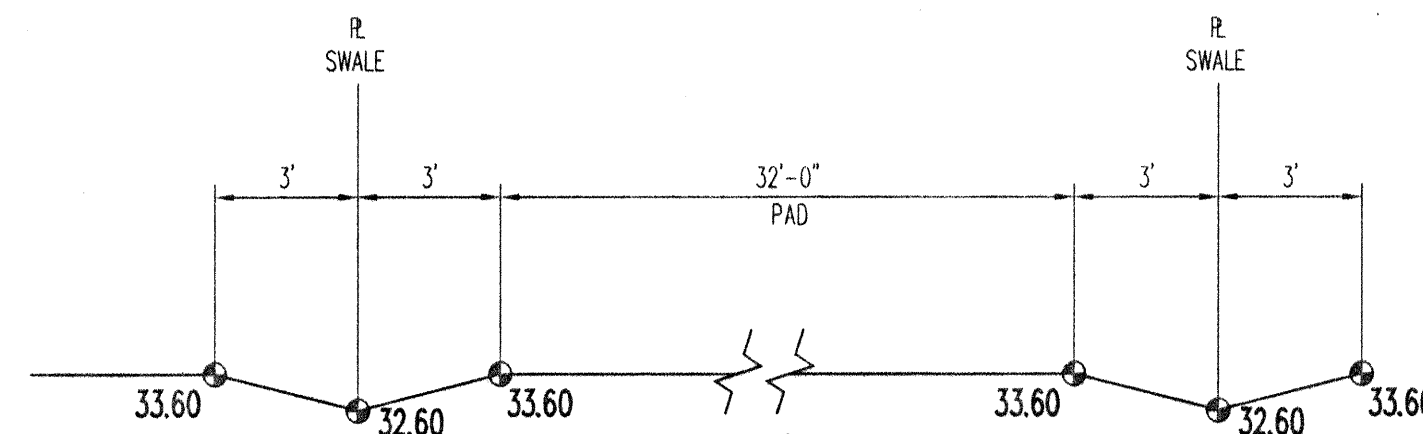


EROSION CONTROL BERM

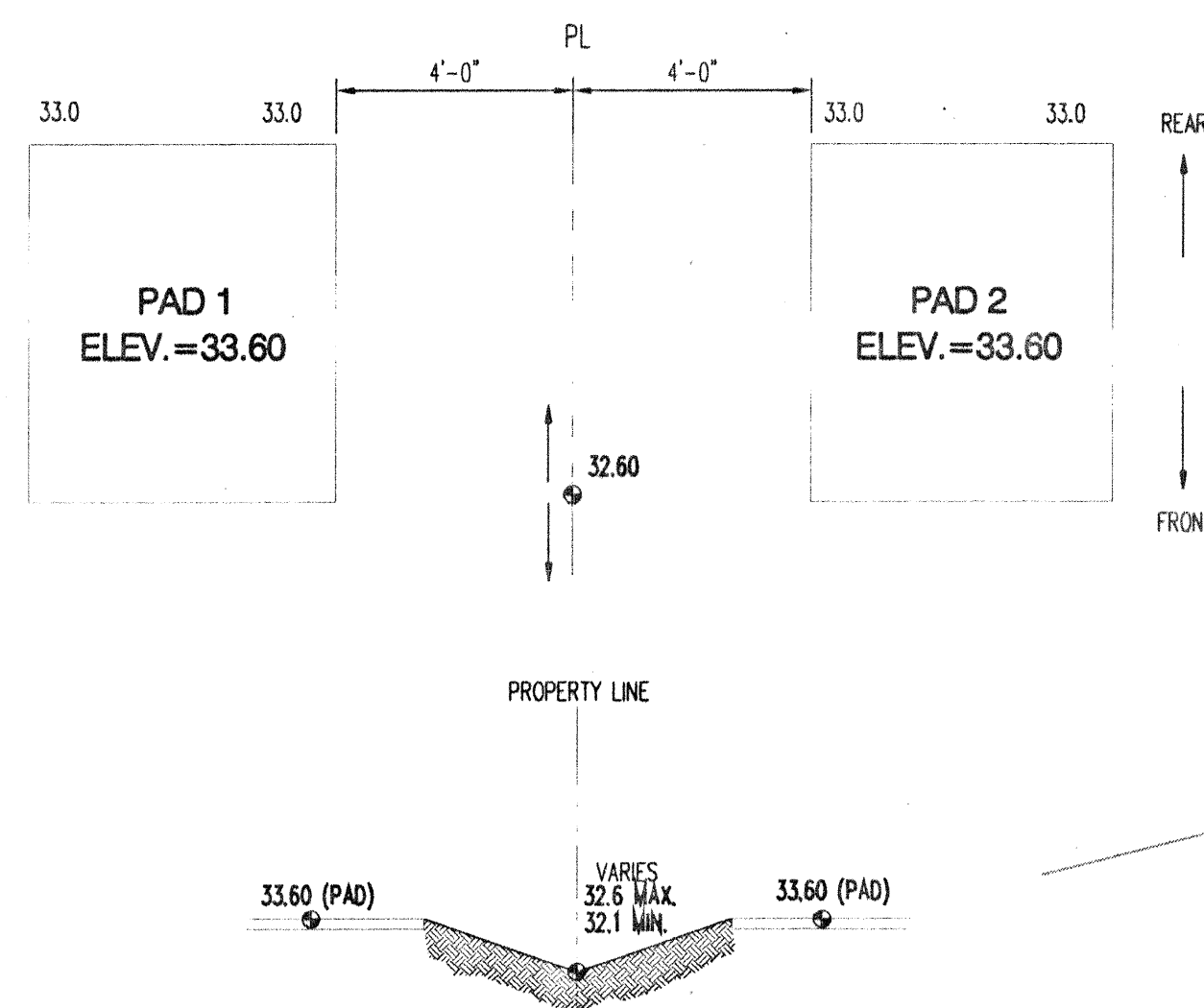
1. TO PREVENT EROSION FROM THE SITE, DURING GRADING & CONSTRUCTION OPERATIONS, A BERM OF THE ABOVE DIMENSIONS SHALL BE MAINTAINED ON THE WEST & NORTH BOUNDARIES OF THE SITE.
2. WIND EROSION SHALL BE PREVENTED BY MAINTAINING AN ADEQUATELY MOISTENED SITE.
3. AFTER CONSTRUCTION ALL SURFACES WILL BE PAVED OR LANDSCAPED TO PREVENT EROSION.
4. CONTRACTOR MUST OBTAIN A TOP SOIL DISTURBANCE PERMIT FROM ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION



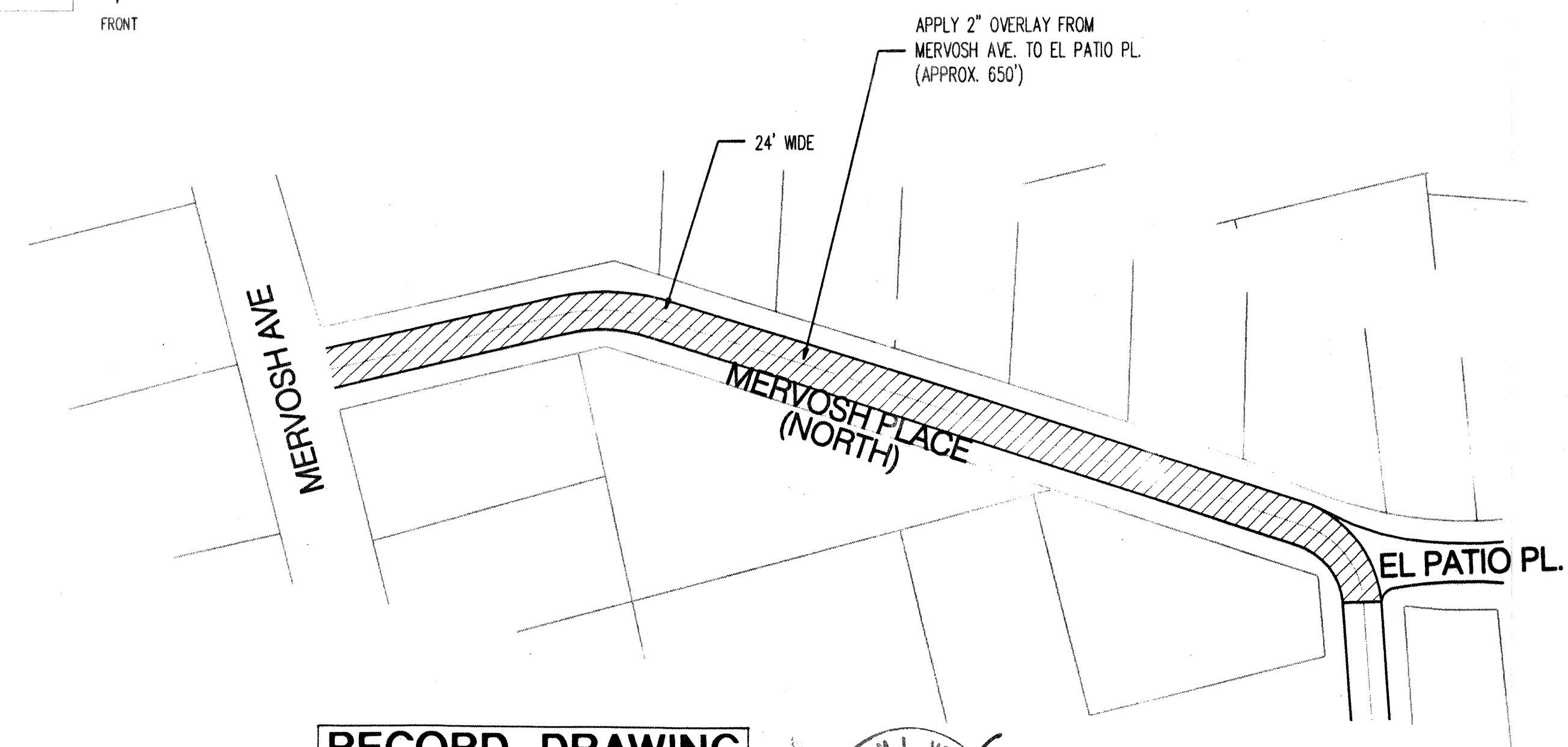
SECTION 'A' - TYPICAL LOT
N.T.S.



SECTION 'B' - SIDE YARD
N.T.S.

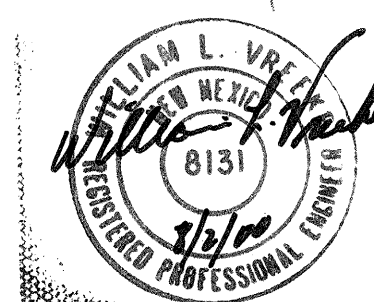


SIDE LOT GRADING
NOT TO SCALE



RECORD DRAWING
DATE: 7-26-00

THESE AS-BUILTS WERE DRAFTED BY
BOHANNAN HUSTON, WITH INFORMATION
PROVIDED BY WALKER SURVEYING
COMPANY.

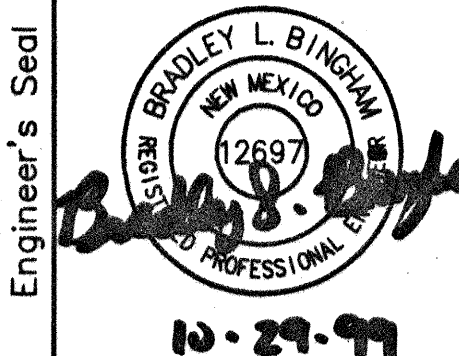


PROJECT BENCHMARK
A 1 1/2" DIA. ALUMINUM SURVEY WASHER SET IN
ASPHALT WITH A PK NAIL STAMPED "BH 113 3"
LOCATED IN THE NORTHEAST CORNER OF THE
INTERSECTION OF BLAKE ROAD AND ISLETA BOULEVARD
ELEVATION = 4933.66'

FOR REFERENCE ONLY



Bernalillo County
Public Works Department
State of New Mexico



Bohannon & Huston
Certified One 7500 Jefferson NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

Date Drawn: 8/99

Revisions:

1	
2	
3	
4	
5	

Drawn By: LDR

Checked By: BLB

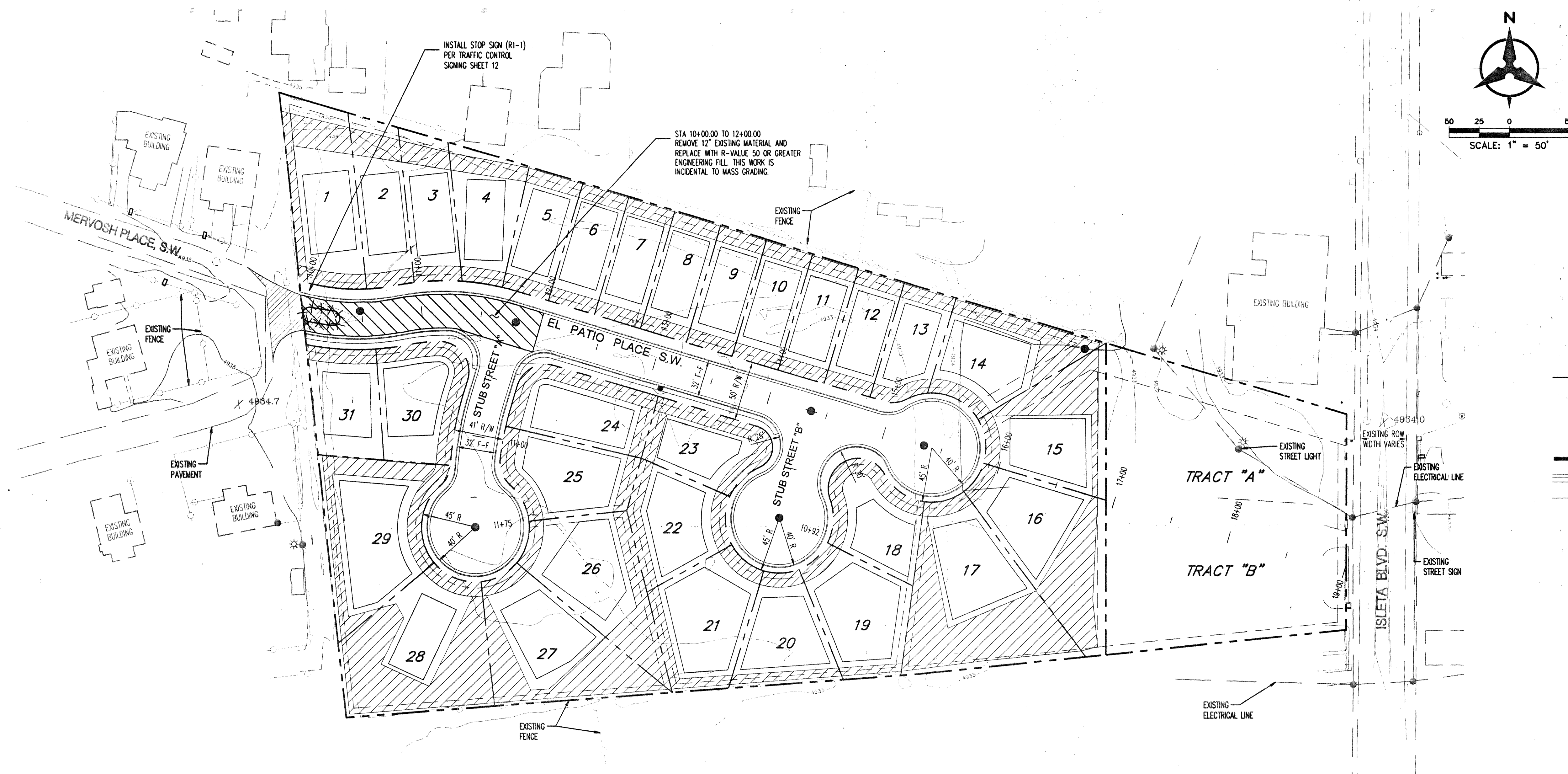
Project Title
EL PATIO ALEGRE
SUBDIVISION

Sheet Title

DETAIL
SHEET

Scale: N. T. S.

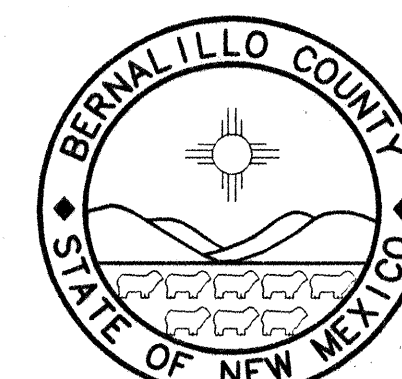
Sheet Number
4

**NOTES**

1. ALL CURB RETURN RADI SHALL BE 25' UNLESS OTHERWISE SPECIFIED.
2. ALL CURVE DATA AND DIMENSIONS REFER TO THEORETICAL FLOW LINE UNLESS OTHERWISE SPECIFIED.
3. GRADE ELEVATIONS, WHERE NOTED, ARE FOR FLOWLINE UNLESS OTHERWISE SPECIFIED.
4. ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.
5. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
6. ANY DAMAGE TO THE EXISTING FACILITIES (CURB & GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
7. CONTRACTOR SHALL COMPLY W/ NOTE 7 OF COA STD. DWS. 2415 WHEN INSTALLING NEW CURB & GUTTER.

LEGEND

—	PROPERTY LINE
---	EXISTING CONTOURS
X	EXISTING GROUND SPOT ELEVATION
●	EXISTING ELECTRICAL POLE
—	EXISTING RETAINING WALL
---	ESTATE CURB & GUTTER
---	PROPOSED EASEMENT
●	PROPOSED LIGHTING
●	PROPOSED SAS MANHOLE
●	PROPOSED FIRE HYDRANT



Bernalillo County

Public Works Department
State of New Mexico

Engineer's Seal



10.29.99

Bohannon & Huston

Courtney One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109

BUSINESS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

Date Drawn: 8/99

Revisions:

1
2
3
4
5

Drawn By:

Checked By: BLB

Project Title
EL PATIO ALEGRE
SUBDIVISION

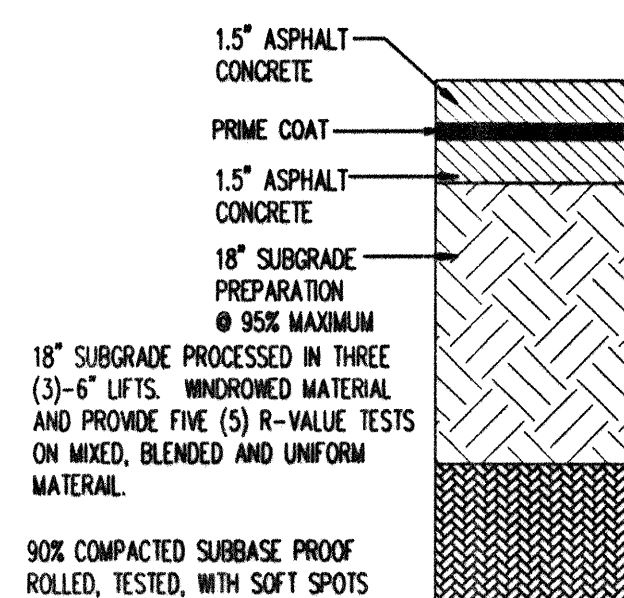
Sheet Title

OVERALL
PAVING PLAN

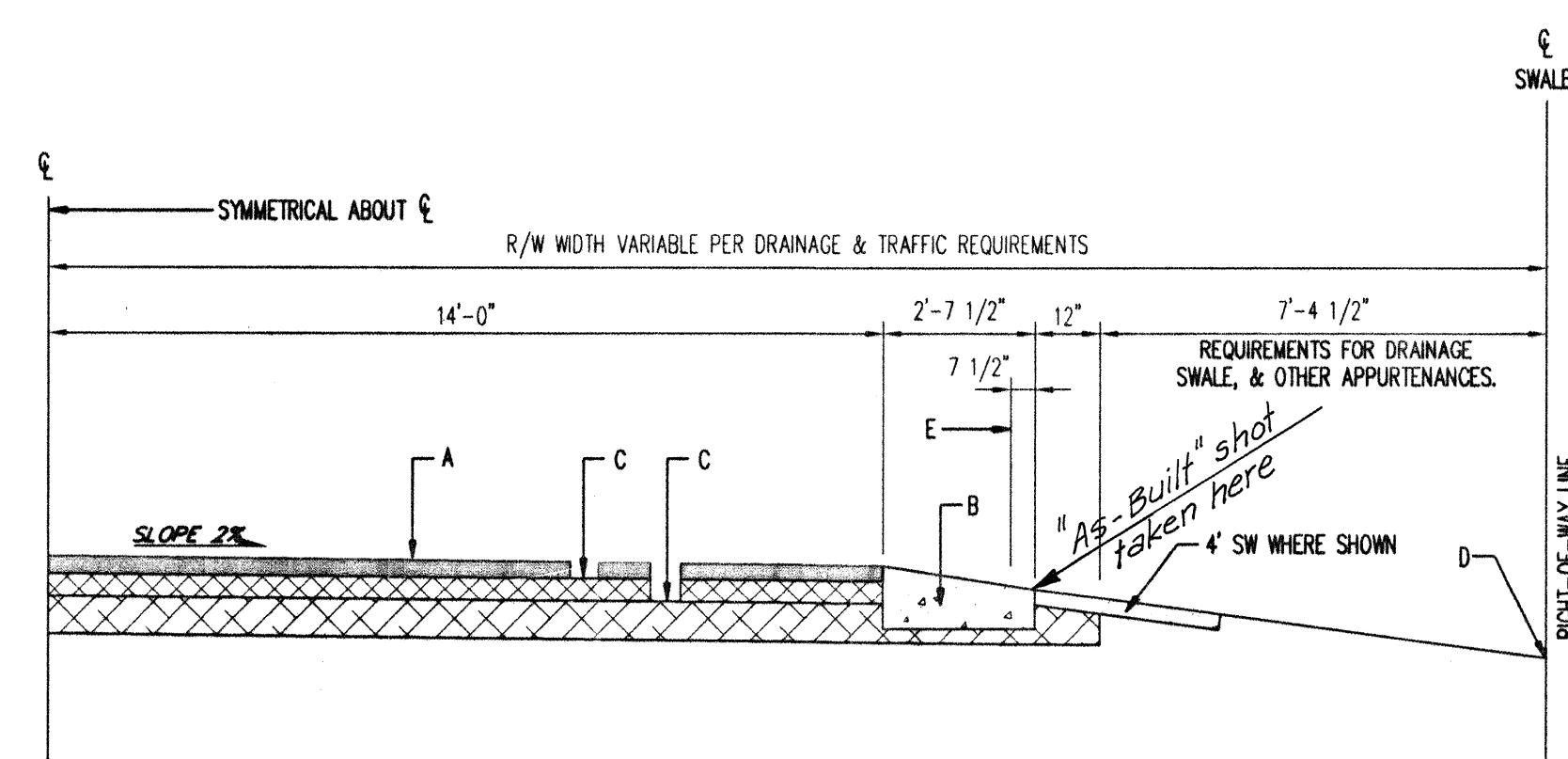
Scale: N. T. S.

Sheet Number

5



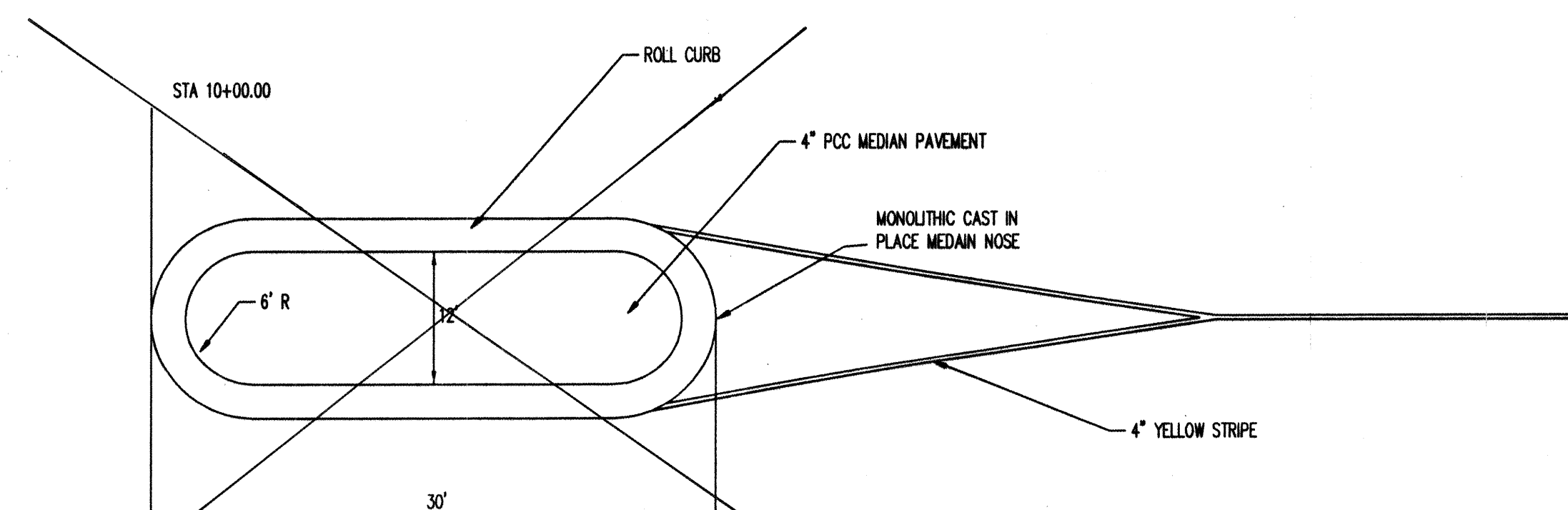
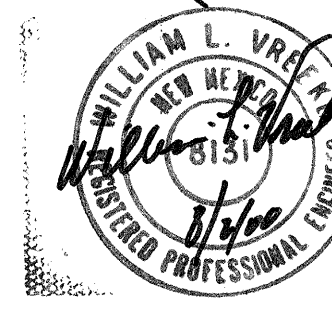
90% COMPACTED SUBGRADE PROOF ROLLED, TESTED, WITH SOFT SPOTS OVEREXCAVATED ONE ADDITIONAL FOOT BEYOND SUBGRADE ELEVATION. REPLACE WITH CRUSHED OPEN-GRADED #57 STONE. SUBGRADE WORK INCIDENTAL TO SUBGRADE PREP. CONSTRUCTION.

ESTATE PAVEMENT SECTION**TYPICAL 32 FT. ESTATE TYPE STREET SECTION****CONSTRUCTION NOTES:**

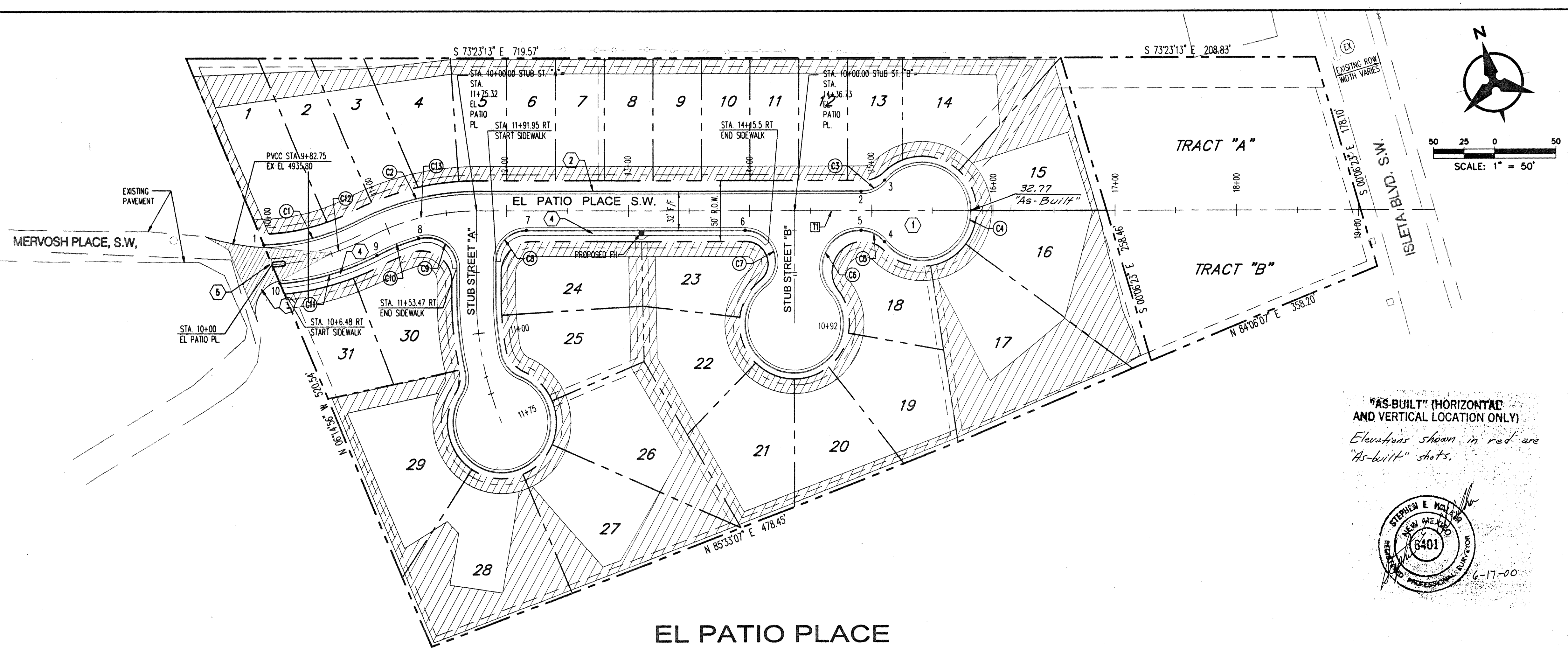
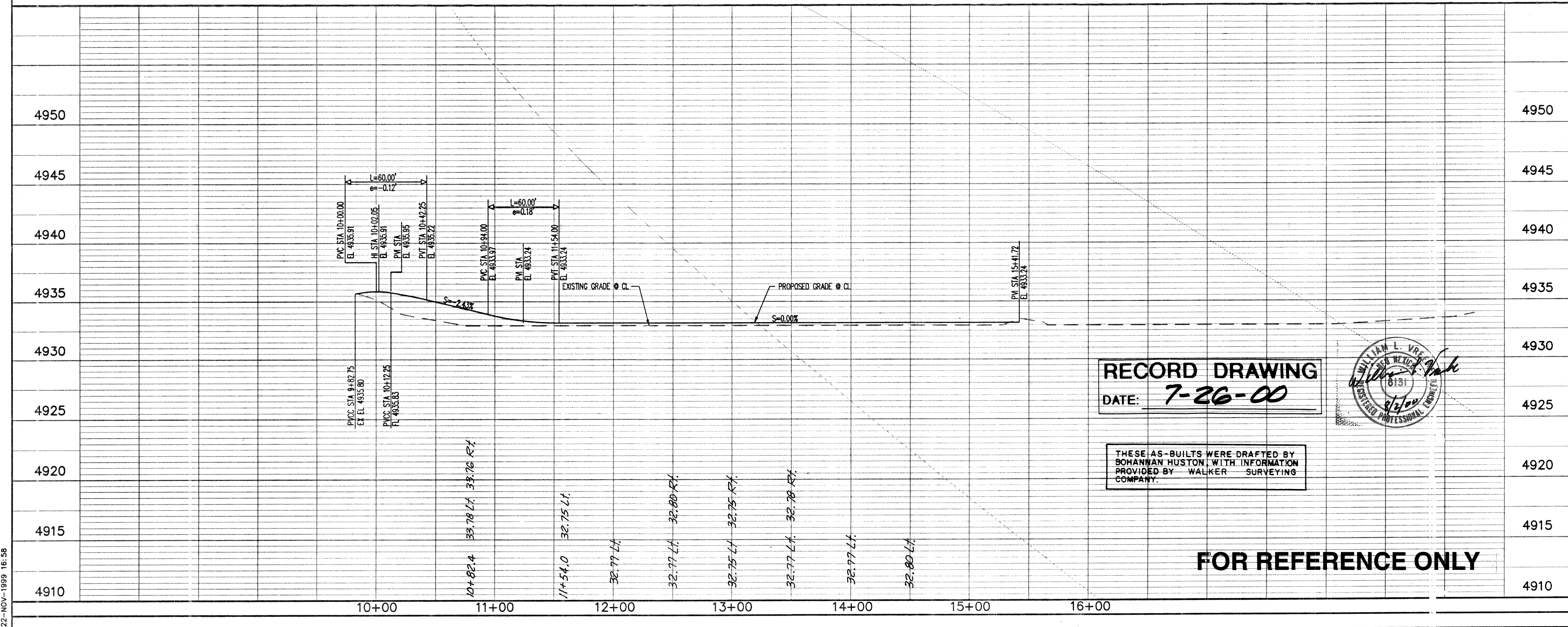
1. ASPHALT CONCRETE PAVEMENT
2. MOUNTABLE CURB ESTATE TYPE
3. COMPACTED SUBGRADE
4. PROJECT DESIGNED SWALE
5. THEORETICAL FACE OF CURB OR FLOWLINE
6. 4' SW (WHERE DENOTED)

STREET CROWN DATA

STREET WIDTH	PAVEMENT WIDTH	CROWN
32'	28'	4"

MEDIAN DETAIL
N.T.S.**RECORD DRAWING**
DATE: 7-26-00THESE AS-BUILTS WERE DRAFTED BY
BOHANNAN HUSTON, WITH INFORMATION
PROVIDED BY WALKER SURVEYING
COMPANY.

PROJECT BENCHMARK
A 1 1/2" DIA. ALUMINUM SURVEY WASHER SET IN
ASPHALT WITH A PK NAIL STAMPED "BH 113 3"
LOCATED IN THE NORTHEAST CORNER OF THE
INTERSECTION OF BLAKE ROAD AND ISETA BOULEVARD
ELEVATION = 4933.66'



NOTES

1. ALL CURB RETURN RADII SHALL BE 30' UNLESS OTHERWISE SPECIFIED.
2. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
3. GRADE ELEVATIONS, WHERE NOTED, ARE FOR TOP OF STANDARD CURB UNLESS OTHERWISE SPECIFIED.
4. ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.
5. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
6. ANY DAMAGE TO THE EXISTING FACILITIES (CURB & GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS' EXPENSE.

KEYED NOTES

- ① INSTALL ESTATE TYPE PAVEMENT, AS PER DETAIL, SHEET 5.
- ② INSTALL MOUNTABLE ESTATE CURB AS PER COA STD. DWG. 2415
- ③ CROWN TRANSITION FROM 0% TO 2%
- ④ 4' SIDE WALK PER TYPICAL SECTION SHEET 5
- ⑤ INSTALL MEDIAN PER DETAIL, SHT 4

POINT LOCATION DATA		"As-Built" Elev.
PT. NO.	STATION & OFFSET	
1	9+93.36, 16' LT	35.38
2	14+91.28, 16' LT	32.85
3	15+10.68, 25.23' LT	32.86
4	15+10.68, 25.23' RT	32.79
5	14+91.28, 16' RT	32.77
6	13+96.43, 16' RT	32.79
7	12+16.32, 16' RT	32.74
8	11+22.57, 16' RT	32.96
9	10+82.44, 16' RT	33.76
10	10+05.28, 16' RT	35.59

CENTERLINE TANGENT DATA		
TAN #	BEARING	DISTANCE
T1	S 73° 23' 13" E	787.83'

CENTERLINE CURVE DATA				
CURVE #	RADIUS	LENGTH	TANGENT	DELTA
C12	192.58'	82.44'	41.86'	24° 31' 41"
C13	192.58'	92.88'	47.36'	27° 37' 56"

FLOWLINE CURVE DATA				
CURVE #	RADIUS	LENGTH	TANGENT	DELTA
C1	176.58'	81.38'	41.42'	26° 24' 15"
C2	208.58'	100.59'	51.29'	27° 37' 56"
C3	25.00'	22.21'	11.90'	50° 53' 35"
C4	40.00'	196.72'	0.00'	281° 47' 10"
C5	25.00'	22.21'	11.90'	50° 53' 36"
C6	30.00'	68.63'	65.95'	131° 04' 57"
C7	25.00'	61.82'	71.96'	141° 41' 07"
C8	25.00'	39.27'	25.00'	90° 00' 00"
C9	25.00'	46.12'	32.99'	105° 41' 34"
C10	176.58'	36.80'	18.46'	11° 56' 22"
C11	208.58'	83.57'	42.35'	22° 57' 25"

BENCH MARKS

A 1 1/2" DIA. ALUMINUM SURVEY WASHER SET IN ASPHALT WITH A PK NAIL STAMPED "BH 113 3" LOCATED IN THE NORTHEAST CORNER OF THE INTERSECTION OF BLAKE ROAD AND ISLETA BOULEVARD ELEVATION = 4933.66'

SCALE: 1" = 50' (HORIZ.)
1" = 5' (VERT.)



Bernalillo County

Public Works Department
State of New Mexico

Engineer's Seal



Bohannon & Huston

Surveyors, Planners, Engineers, Photographers, Software Developers

Date Drawn: 8/99

Revisions:

1	
2	
3	
4	
5	

Drawn By: LDR

Checked By: BLB

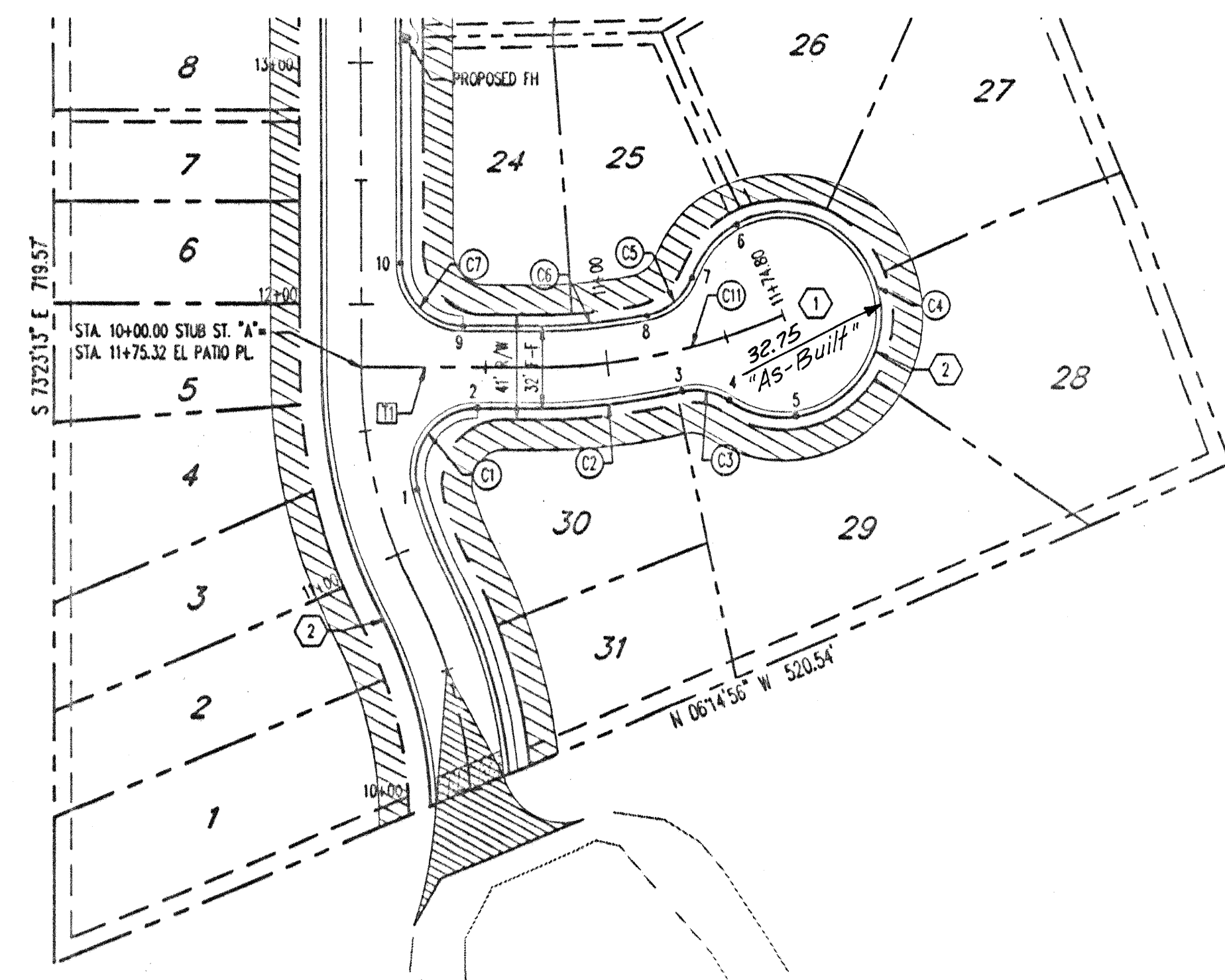
Project Title
EL PATIO ALEGRE
SUBDIVISION

Sheet Title
PAVING PLAN &
PROFILE SHEET
EL PATIO PLACE

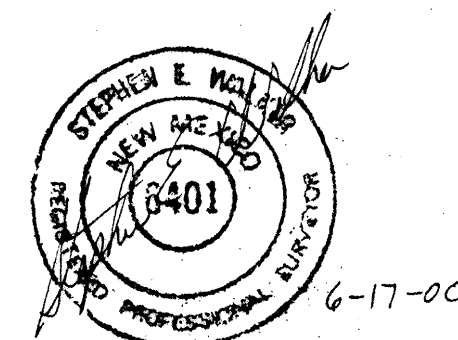
Scale: 1"=50'

Sheet Number

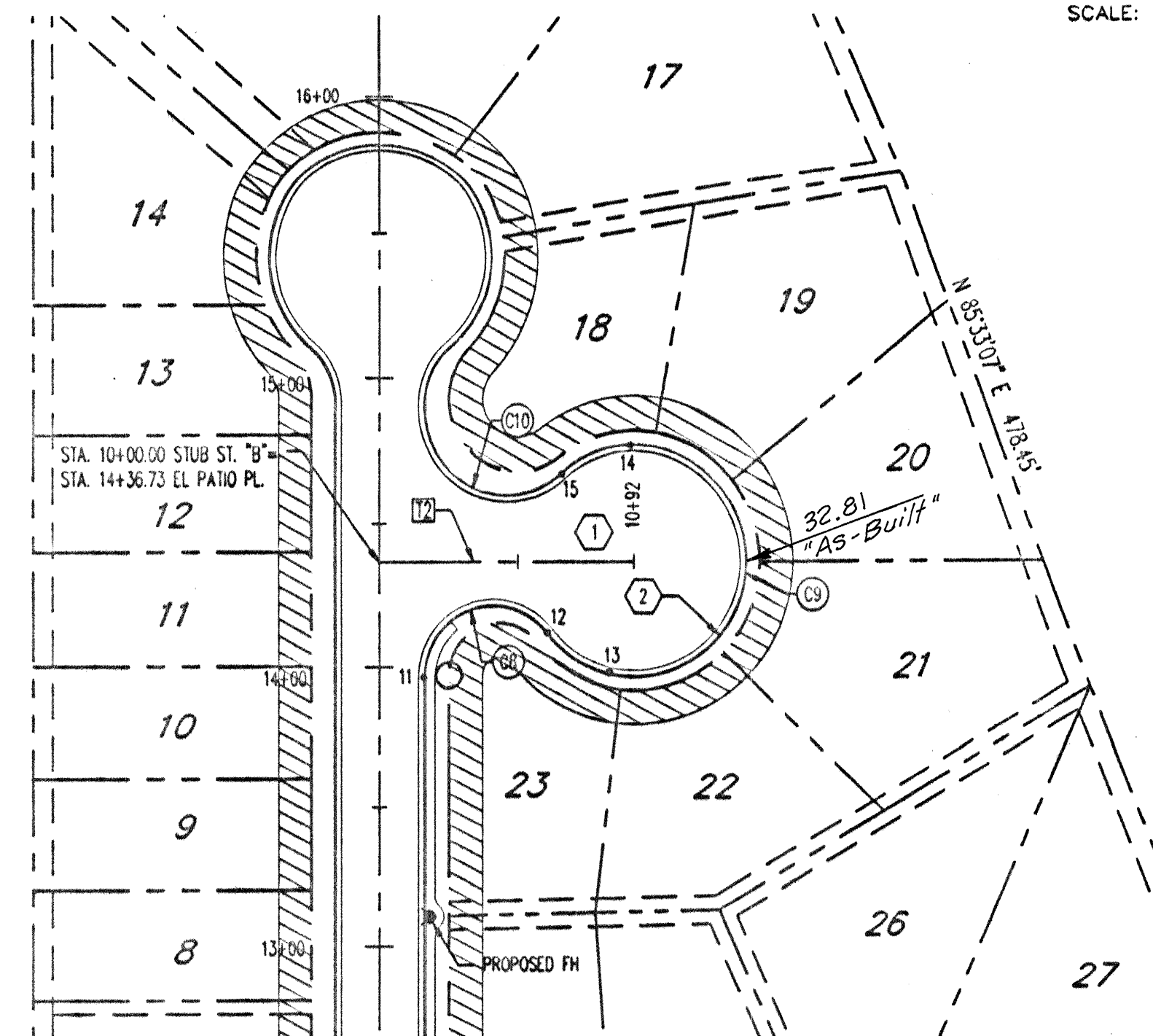
6



"AS-BUILT" (HORIZONTAL
AND VERTICAL LOCATION ONLY)
Elevations shown in red are
"As-built" shots.



STUB STREET "A"



STUB STREET "B"

NOTES

1. ALL CURB RETURN RADII SHALL BE 30' UNLESS OTHERWISE SPECIFIED.
2. ALL CURVE DATA AND DIMENSIONS REFER TO THEORETICAL FLOWLINE UNLESS OTHERWISE SPECIFIED.
3. GRADE ELEVATIONS, WHERE NOTED, ARE FOR TOP OF STANDARD CURB UNLESS OTHERWISE SPECIFIED.
4. ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.
5. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
6. ANY DAMAGE TO THE EXISTING FACILITIES (CURB & GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS' EXPENSE.

KEYED NOTES

- ① INSTALL ESTATE TYPE PAVEMENT, AS PER DETAIL SHEET S.
- ② INSTALL MOUNTABLE ESTATE CURB AS PER CDA STD. DWG. 2415

CUL-DE-SAC CURB DATA

PT. NO.	STATION & OFFSET	"As-Built" Elev.
1	11+25.57, 16' RT	
2	10+46.65, 16' RT	32.74
3	11+27.84, 16' RT	32.83
4	11+44.29, 24.18' RT	
5	11+65.51, 38.67' RT	32.74
6	11+70.51, 39.81' LT	
7	11+43.18, 26.51' LT	32.79
8	11+19.77, 16' LT	32.78
9	10+41.00, 16' LT	32.75
10	12+16.32, 16' RT	
11	13+96.43, 16' RT	
12	10+60.62, 24.80' RT	32.74
13	10+82.92, 38.73' RT	
14	10+90.54, 40.05' LT	
15	10+65.86, 29.61' LT	32.87

TAN #	BEARING	DISTANCE
T1	N 16° 36' 47" E	69.80'
T2	N 16° 36' 47" E	92.00'

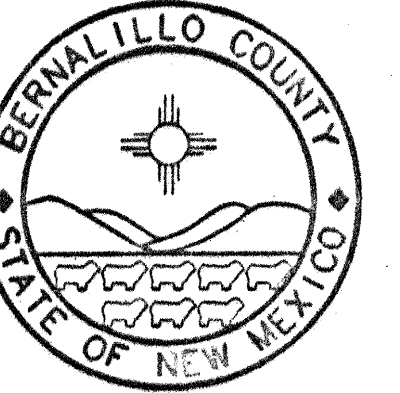
CURVE #	RADIUS	LENGTH	TANGENT	DELTA
C11	261.51'	105.00'	53.21'	23° 00' 16"

CURVE #	RADIUS	LENGTH	TANGENT	DELTA
C1	25.00'	46.12'	32.99'	108° 41' 34"
C2	277.51'	61.58'	30.92'	17° 42' 50"
C3	25.00'	20.04'	10.60'	45° 56' 10"
C4	40.00'	186.42'	0.00'	281° 20' 48"
C5	25.00'	24.95'	13.62'	57° 10' 43"
C6	245.51'	46.92'	23.53'	107° 57' 01"
C7	25.00'	39.27'	25.00'	90° 00' 00"
C8	25.00'	61.82'	71.56'	141° 41' 07"
C9	40.00'	190.43'	0.00'	272° 46' 04"
C10	30.00'	68.63'	65.95'	131° 04' 57"

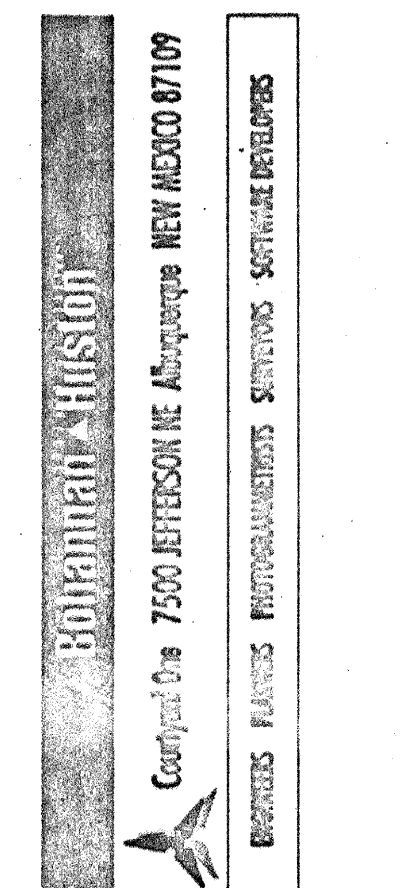
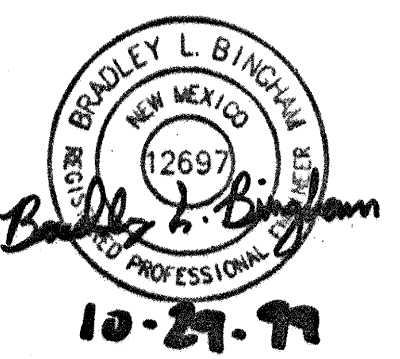
BENCH MARKS

A 1 1/2" DIA. ALUMINUM SURVEY WASHER SET IN ASPHALT WITH A PK NAIL STAMPED "BM 113 3" LOCATED IN THE NORTHEAST CORNER OF THE INTERSECTION OF BLAKE ROAD AND ISLETA BOULEVARD ELEVATION = 4933.66'

SCALE: 1" = 50' (HORIZ.)
1" = 5' (VERT.)



Bernalillo County
Public Works Department
State of New Mexico



Date Drawn: 8/99

Revisions:
1
2
3
4
5

Drawn By: LDR

Checked By: BLB

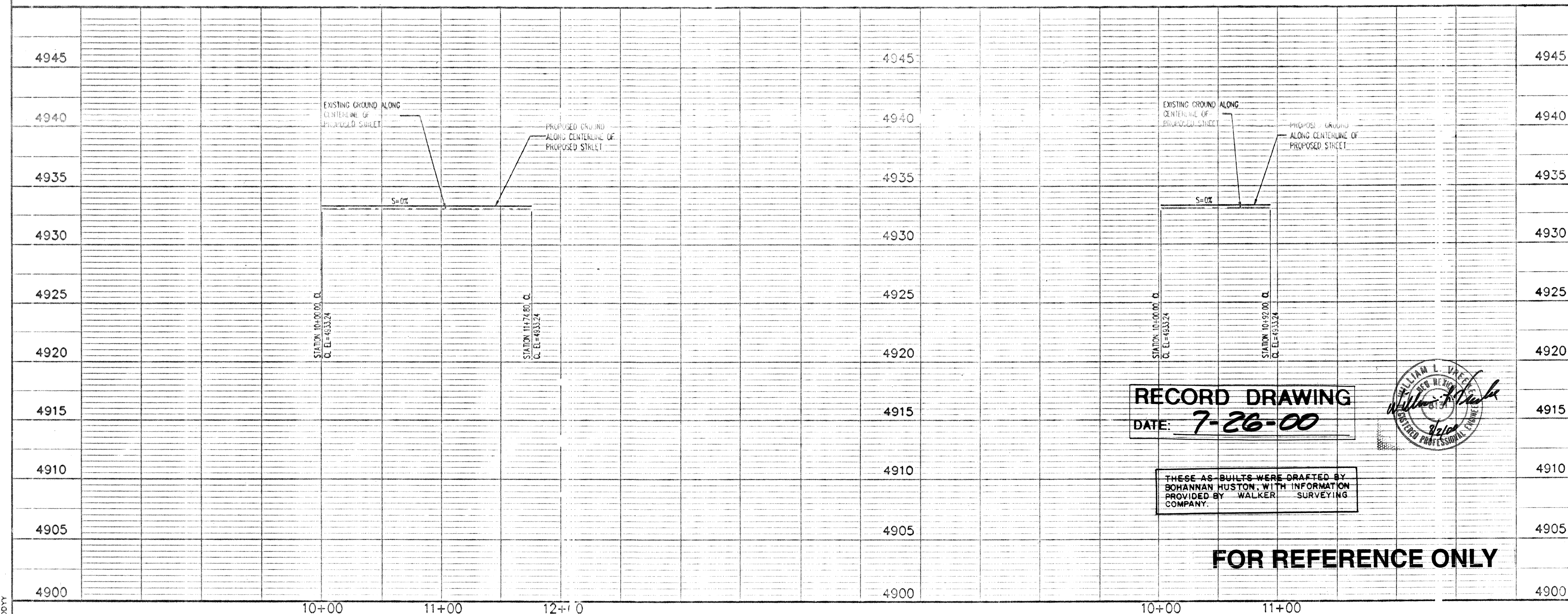
Project Title
EL PATIO ALEGRE
SUBDIVISION

Sheet Title
EL PATIO ALEGRE
SUBDIVISION
PAVING PLAN &
PROFILE SHEET

Scale: 1" = 50'

Sheet Number

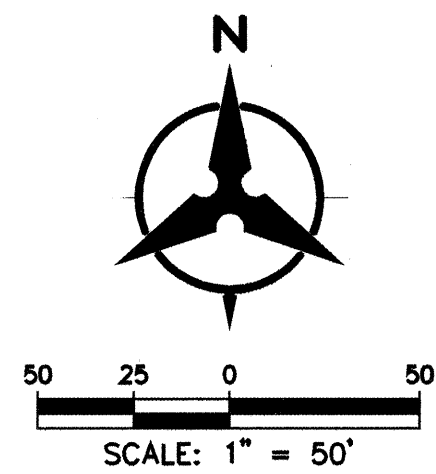
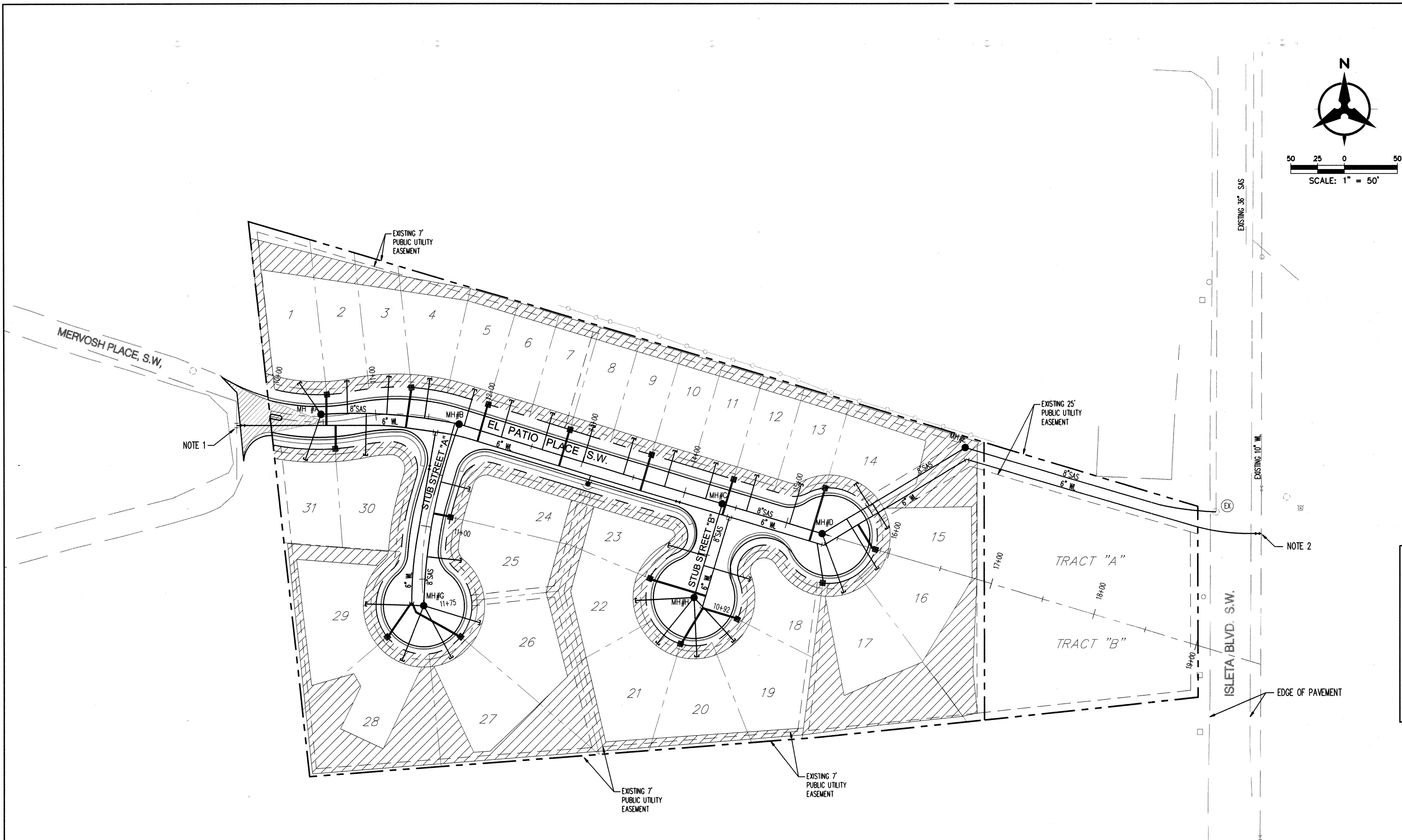
7



RECORD DRAWING
DATE: 7-26-00

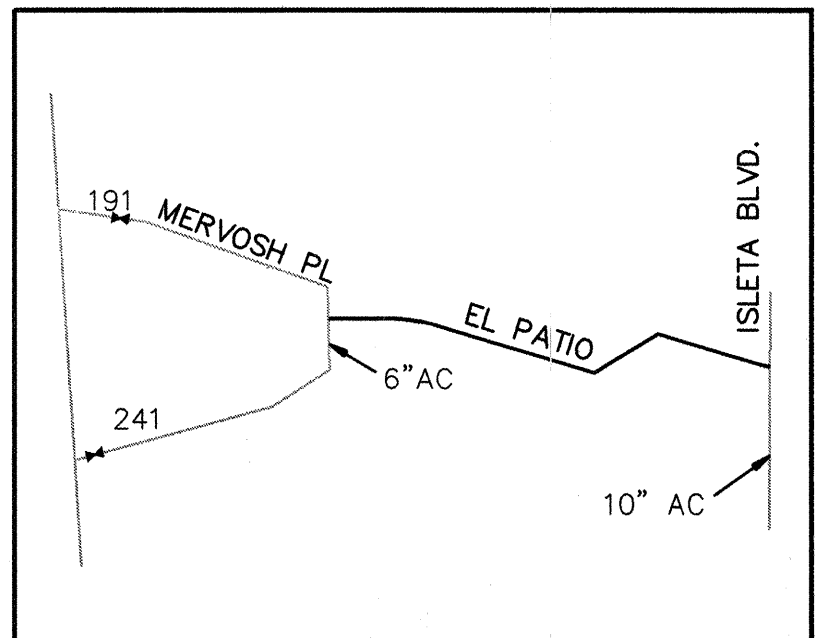
THESE AS-BUILTS WERE DRAFTED BY
BOHANNAN HUSTON, WITH INFORMATION
PROVIDED BY WALKER SURVEYING
COMPANY.

FOR REFERENCE ONLY



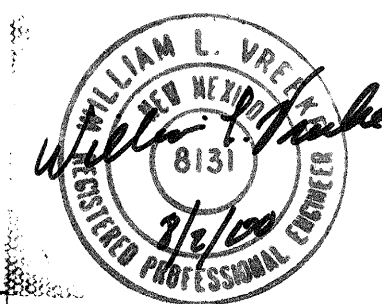
LEGEND	
---	PROPERTY LINE
---	EXISTING EASEMENT
SAS	EXISTING SANITARY SEWER
W	EXISTING WATER LINE
□	EXISTING WATER METER
⊕	EXISTING VALVE
⊙	EXISTING FIRE HYDRANT
○	EXISTING SANITARY SEWER MANHOLE
SAS	PROPOSED SANITARY SEWER
WL	PROPOSED WATER LINE
FL	PROPOSED FIRE LINE
⊕	PROPOSED VALVE
●	PROPOSED HYDRANT
⊕	PROPOSED SAS LATERAL WITH PLUG
⊕	PROPOSED SINGLE WATER METER
⊕	PROPOSED DOUBLE WATER METER
⊕	WATERLINE AIR RELEASE VALVE
●	PROPOSED SANITARY SEWER MANHOLE

WATER SHUT-OFF PLAN:
NOTE 1: CLOSE VALVE #191, #241 IN MERVOSH PLACE TIE INTO MERVOSH WATER LINE (6" AC)
NOTE 2: PRESSURE CONNECTION TIE INTO ISLETA WATER LINE (10" AC)



WATER SHUT-OFF REQUIREMENTS:
CONTRACTOR WILL BE RESPONSIBLE FOR THE TIMING AND COORDINATION OF THE WATER SHUT-OFF REQUIREMENTS IN CONJUNCTION WITH THE COMPLETION

AT LEAST FIVE (5) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT PDW/WATER SYSTEMS DIVISION (857-8200) TO INITIATE IMPLEMENTATION OF THIS WATER SHUT-OFF PLAN. CONTRACTOR SHALL NOT OPERATE CITY VALVES OF THE PROJECT.



RECORD DRAWING
DATE: 7-26-00

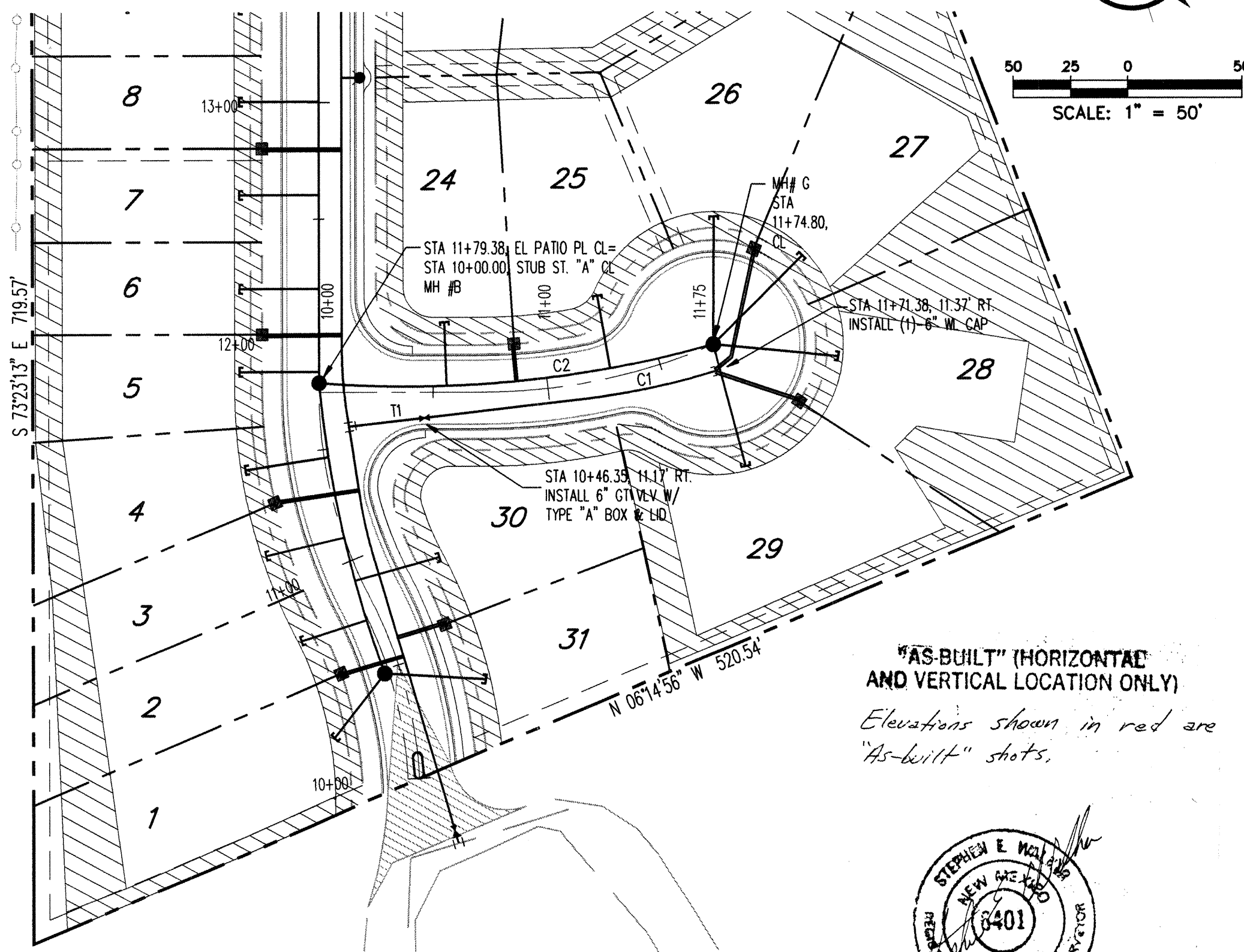
THESE AS-BUILTS WERE DRAFTED BY BOHANNAN HUSTON, WITH INFORMATION PROVIDED BY WALKER SURVEYING COMPANY.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

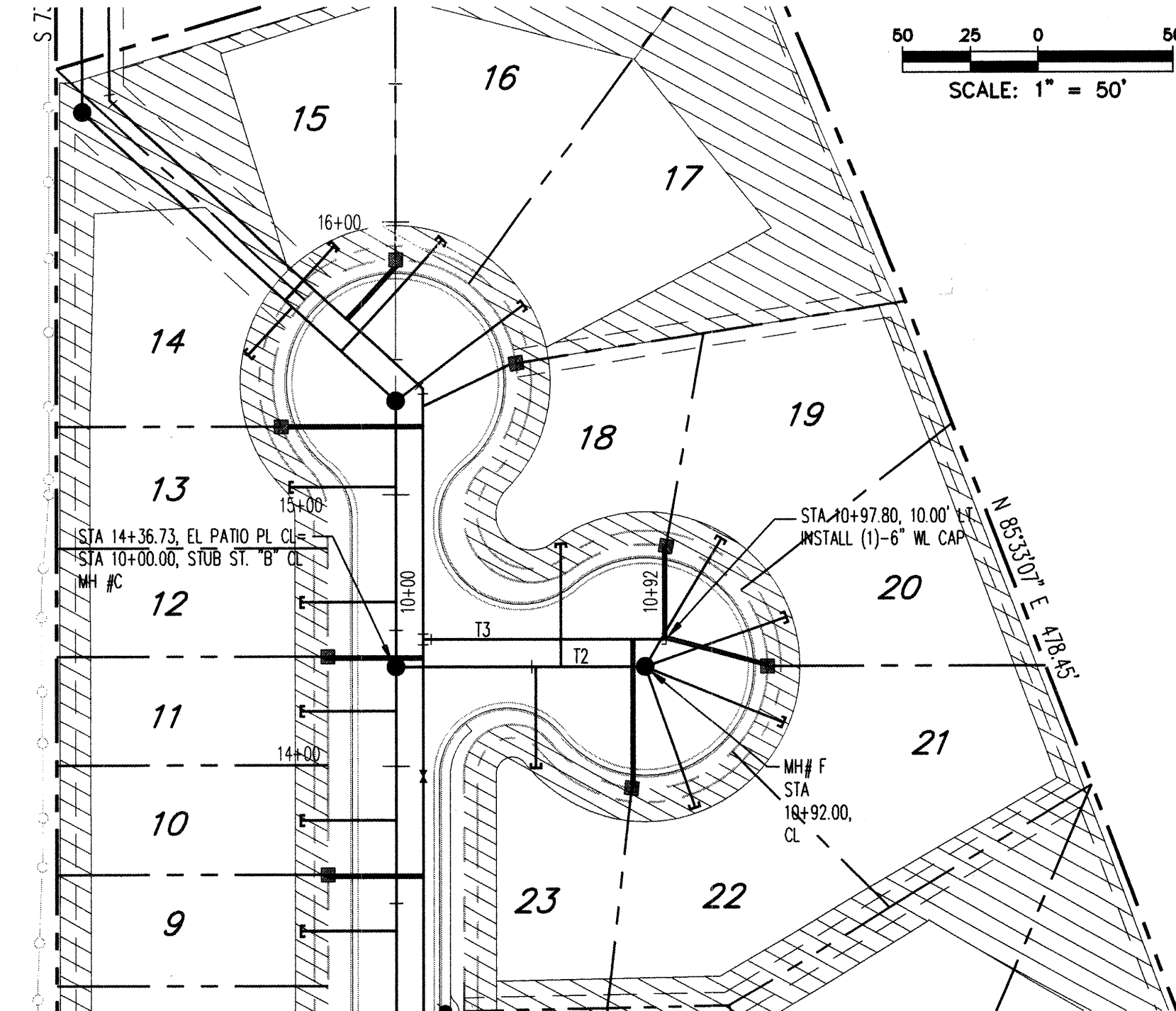
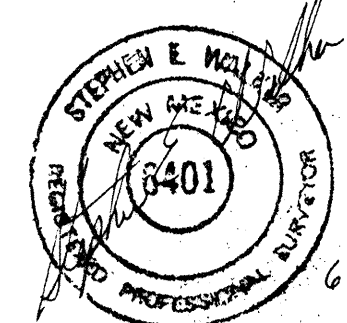
EL PATIO ALEGRE
OVERALL UTILITY PLAN

Design Review Committee	City Engineer Approval	Mo./Day/Yr.
City Project No.	Zone Map No.	Sheet
626981	N-12-Z	8
		12





"AS-BUILT" (HORIZONTAL AND VERTICAL LOCATION ONLY)
Elevations shown in red are "As-Built" shots.



STUB STREET "B"

NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
2. ALL SAS LENGTHS AND DIMENSIONS ARE FROM CENTERLINE OF PIPE OR MH TO CENTERLINE OF PIPE OR MH. SAS SLOPES ARE BASED ON EDGE OF MH TO EDGE OF MH. CONTRACTOR SHALL FIELD ADJUST ALL MH'S TO FINAL GRADE.
3. CONTRACTOR IS TO INSTALL A 4" x 4" x 5' POST AND END AT THE END OF EACH SANITARY SEWER SERVICE.
4. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
5. ANY DAMAGE TO THE EXISTING FACILITIES (CURB & GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS' EXPENSE.
6. MH RIMS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY AND ADJUST TO FINAL PAVEMENT ELEVATIONS.
7. FIRE HYDRANT INSTALLATION SHALL ADHERE TO STANDARD DRAWING.

RESTRAINED JOINT TABLE

MECHANICAL JOINTS	LENGTH OF RESTRAINED JOINTS		
	(6")	(8")	(10")
11.25' H BEND	2'	3'	3'
22.50' H BEND	4'	5'	6'
45' H BEND	8'	11'	13'
90' H BEND	20'	26'	31'
GATE VALVE/CAP	55'	72'	86'
TEE	5'	---	44'

NOTE:

1. ALL MECHANICAL JOINTS SHALL BE RESTRAINED AT THE FITTING OR VALVE.
2. THE CONTRACTOR SHALL PROVIDE A MINIMUM PIPE LENGTH OF 20 LF FROM ALL MECHANICAL JOINTS, UNLESS SPECIFIED DIFFERENTLY IN THE PLANS. ALL PIPE JOINTS WITHIN 20 LF OF A MJ SHALL BE RESTRAINED AT THE CONTRACTORS' EXPENSE.
3. THE CONTRACTOR SHALL RESTRAIN ALL PIPE JOINTS IN THE SPECIFIED DISTANCE LISTED IN THE TABLE ABOVE. (SEE NOTE 5 ABOVE)
4. THE CONTRACTOR SHALL RESTRAIN ALL FIRE HYDRANT JOINTS FROM THE TEE ON THE MAIN TO THE FIRE HYDRANT FLANGE.

MATERIALS:

SAS LINE: SDR-35 PVC
WATER LINE: C900-PVC

STUB STREET "A"

WATER & SANITARY SEWER SERVICES					
LOT #	STATION & OFFSET	TYPE	SAS LENGTH	TOP OF PIPE @ PLUG	REMARKS
24	11+96.31, 20.52' RT	DOUBLE	10+55.82, 2.90 LT	27.67	4930.44 (-)
25			11+28.36, 4.16 LT	32.00	4930.72 (-)
26	12+07.10, 31.18 LT	DOUBLE	11+74.90, CL	55.00	4931.86 (-)
27			11+74.90, CL	55.00	4931.86 (-)
28	12+00.00, 37.42 RT	DOUBLE	11+74.90, CL	55.00	4931.86 (-)
29			11+74.90, CL	55.00	4931.86 (-)

STUB STREET "B"

WATER & SANITARY SEWER SERVICES					
LOT #	STATION & OFFSET	TYPE	SAS LENGTH	TOP OF PIPE @ PLUG	REMARKS
18	10+99.84, 44.31' LT	DOUBLE	10+92.00, CL	45.29	4930.88 (-)
19			10+92.00, CL	55.00	4930.88 (-)
20	11+37.00, CL	DOUBLE	10+92.00, CL	55.00	4930.88 (-)
21			10+92.00, CL	55.00	4930.88 (-)
22	10+86.91, 44.71' RT	DOUBLE	10+92.00, CL	55.00	4930.88 (-)
23			10+92.00, CL	55.00	4930.88 (-)

BENCH MARKS

A 1 1/2" DIA. ALUMINUM SURVEY WASHER SET IN ASPHALT WITH A PK NAIL STAMPED "BH 113 3" LOCATED IN THE NORTHEAST CORNER OF THE INTERSECTION OF BLAKE ROAD AND ISLETA BOULEVARD ELEVATION = 4933.66'

Bohannon & Huston

Courtyard One 7500 JEFFERSON NE ALBUQUERQUE NEW MEXICO 87109

ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

City of Albuquerque Public Works Department Engineering Development Group

EL PATIO ALEGRE SUBDIVISION UTILITY PLAN & PROFILE

Design Review Committee City Engineer Approval

City Project No. 626981 Zone Map No. N-12-Z

Sheet 10 of 12

City of Albuquerque Public Works Department Engineering Development Group

Copyright Bohannon & Huston 1999 Date: October 1999

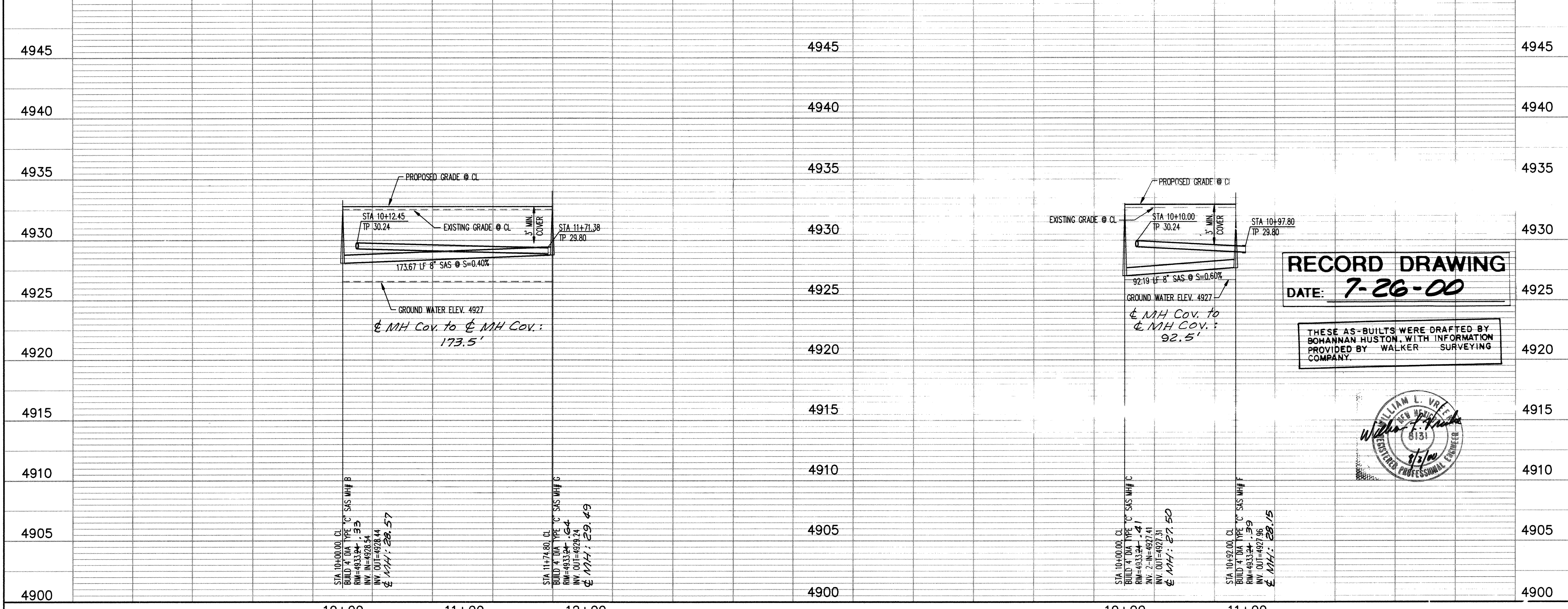
6" WATERLINE TANGENT DATA		
NUMBER	BEARING	DISTANCE
T1	S 16°36'47"W	92.00'

6" WATERLINE CURVE DATA			
NUMBER	RADIUS	LENGTH	DELTA
C1	350.00'	65.99'	10° 48'09"

6" SAS CURVE DATA			
NUMBER	RADIUS	LENGTH	DELTA
C2	500.00'	173.67'	19° 54'04"

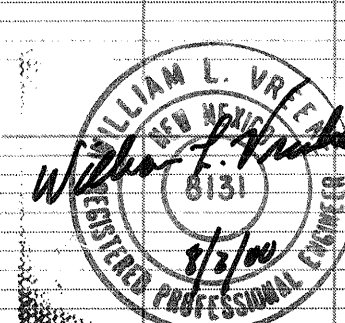
6" WATERLINE TANGENT DATA		
NUMBER	BEARING	DISTANCE
T3	S 16°36'47"W	89.80'

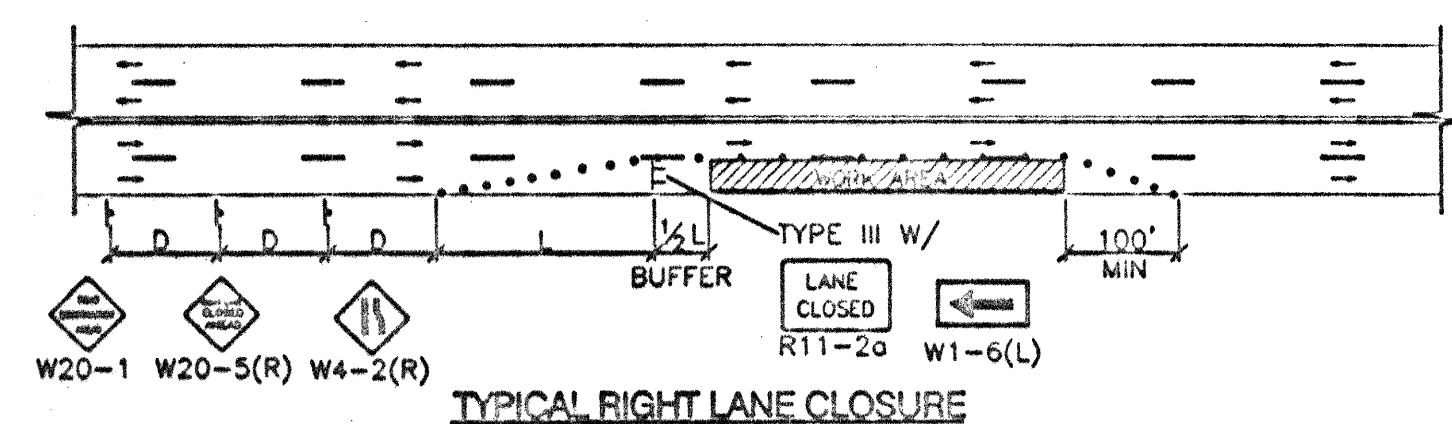
6" SAS TANGENT DATA		
NUMBER	BEARING	DISTANCE
T2	S 09°53'07"W	100.44'



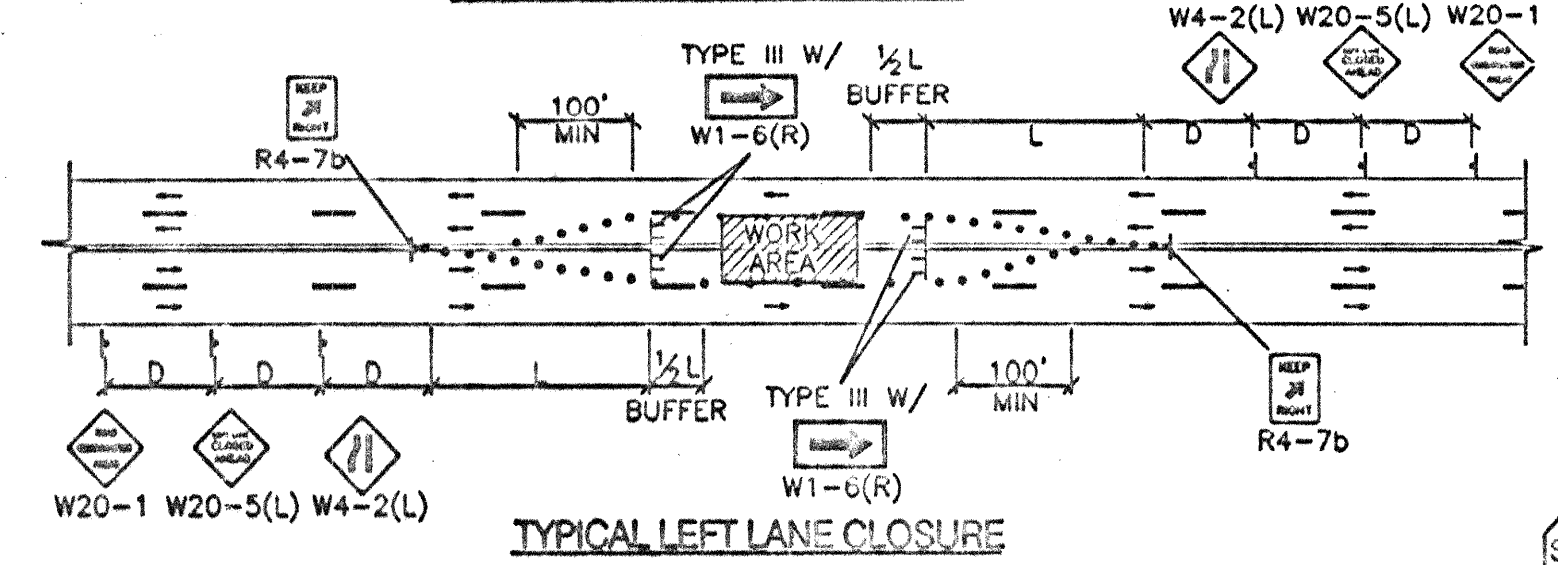
RECORD DRAWING
DATE: 7-26-00

THESE AS-BUILTS WERE DRAFTED BY BOHANNAN HUSTON WITH INFORMATION PROVIDED BY WALKER SURVEYING COMPANY.

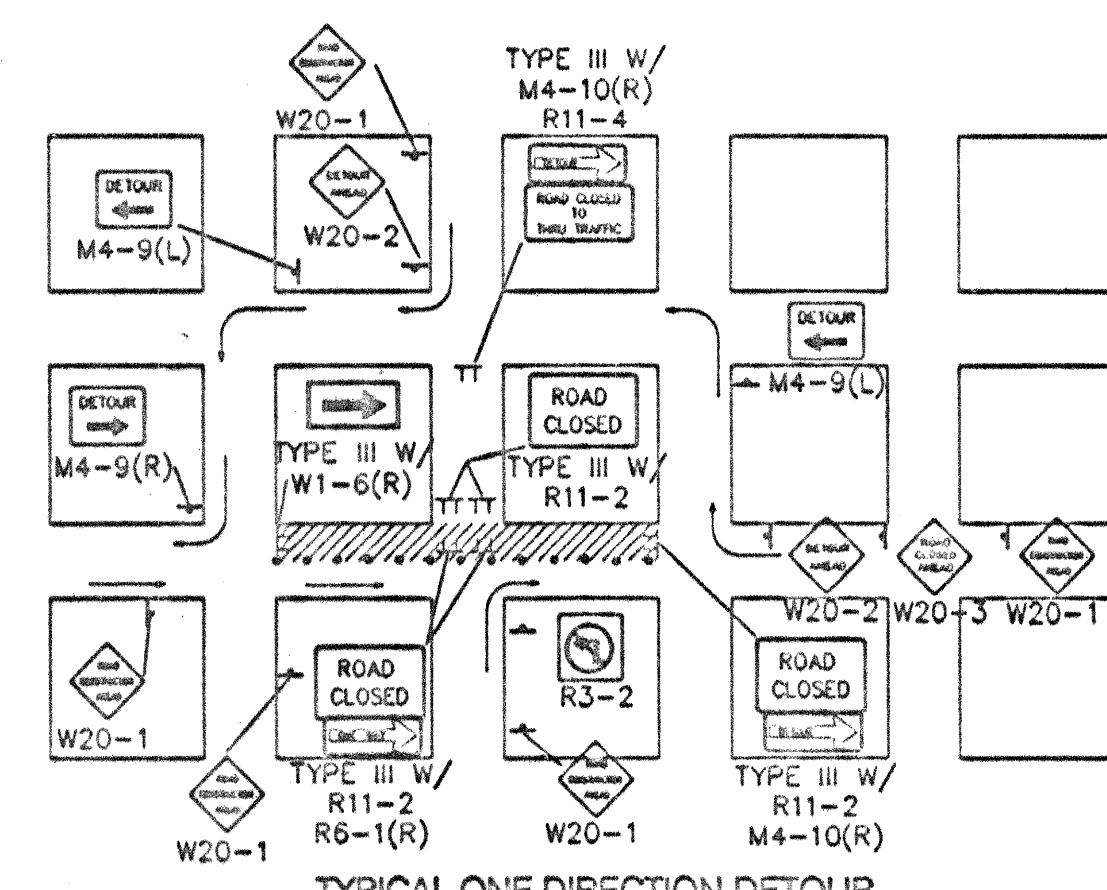




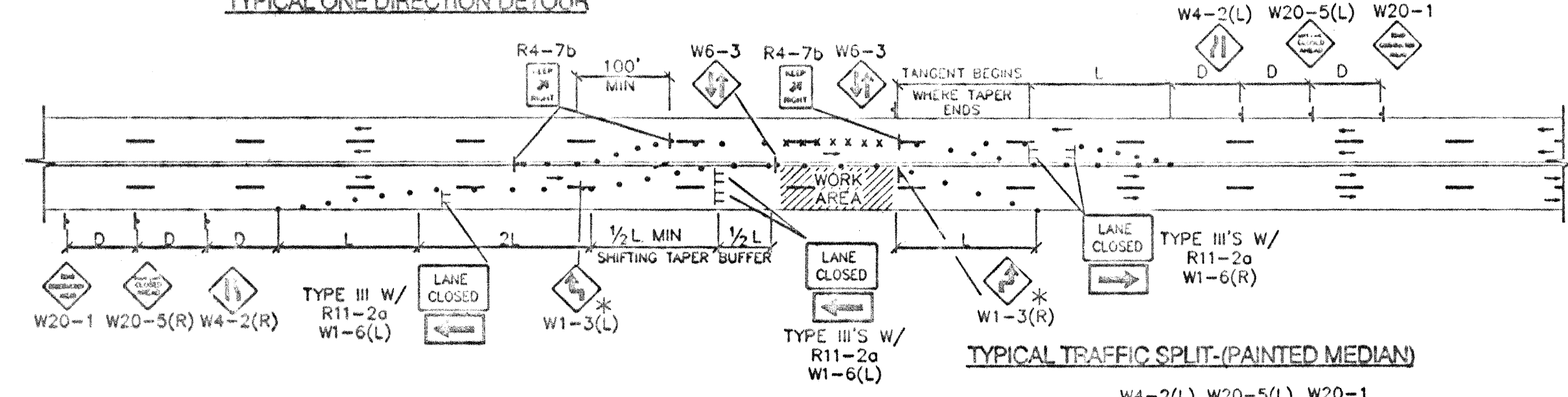
TYPICAL RIGHT LANE CLOSURE



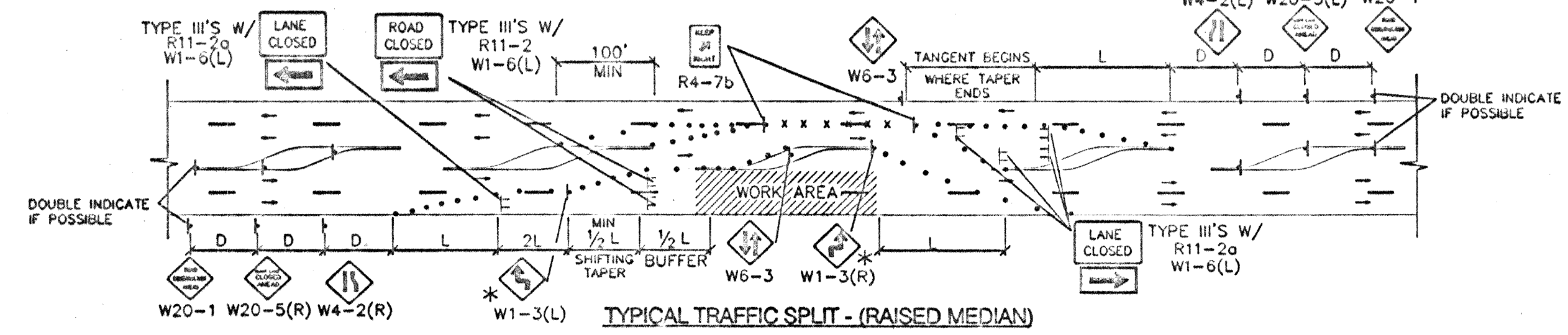
TYPICAL LEFT LANE CLOSURE



TYPICAL ONE DIRECTION DETOUR

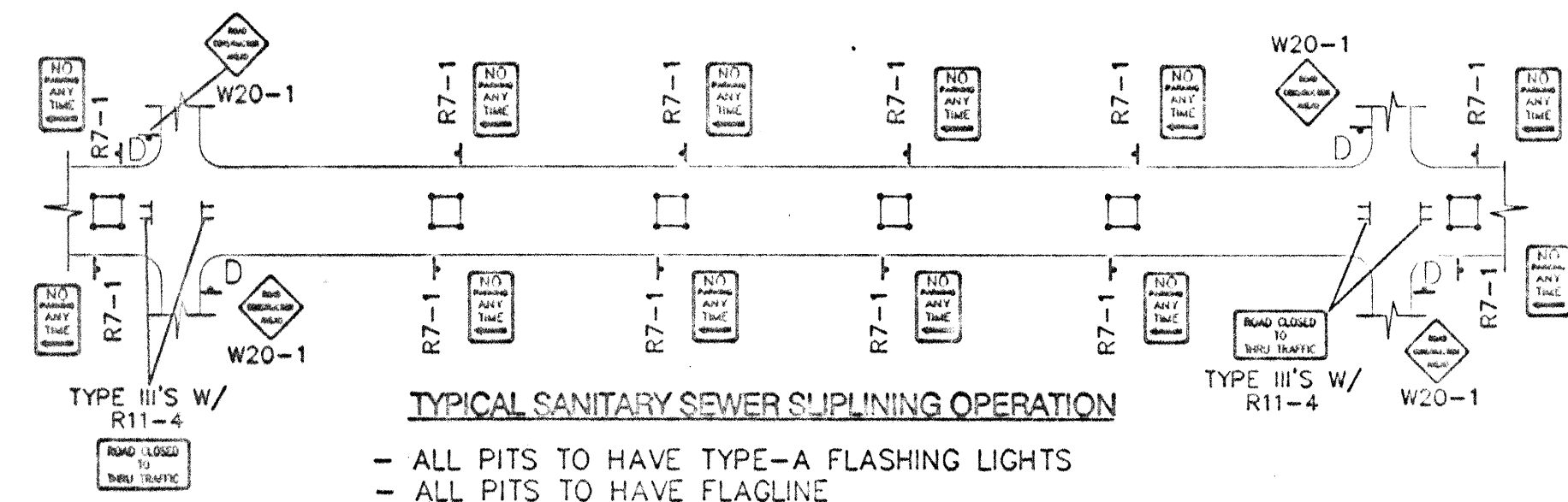


TYPICAL TRAFFIC SPLIT (PAINTED MEDIAN)



TYPICAL TRAFFIC SPLIT - (RAISED MEDIAN)

- TRAFFIC SPLIT NOTES:**
1. THE OFFSET DISTANCE MUST BE CALCULATED IN ALL SHIFTING TAPERS. THE OFFSET DISTANCES SHALL INCLUDE LANE WIDTHS PLUS MEDIAN WIDTHS.
 2. 1/2 L IS THE MINIMUM DISTANCE FOR SHIFTING TAPERS.
 3. REVERSE CURVES MAY BE IMPLEMENTED. ALL CURVE DATA SHALL BE CALCULATED.
 4. MEDIAN REMOVAL SHALL BE REQUIRED IF 1/2 L OR REVERSE CURVE IS NOT SUFFICIENT. MEDIAN REMOVAL SHALL TAKE PLACE BEFORE SPLITS.
 5. REDUCED SPEED MAY BE CONSIDERED.
 6. * USE W1-3 FOR 30 MPH OR LESS, W1-4 FOR SPEED 35 MPH OR GREATER.



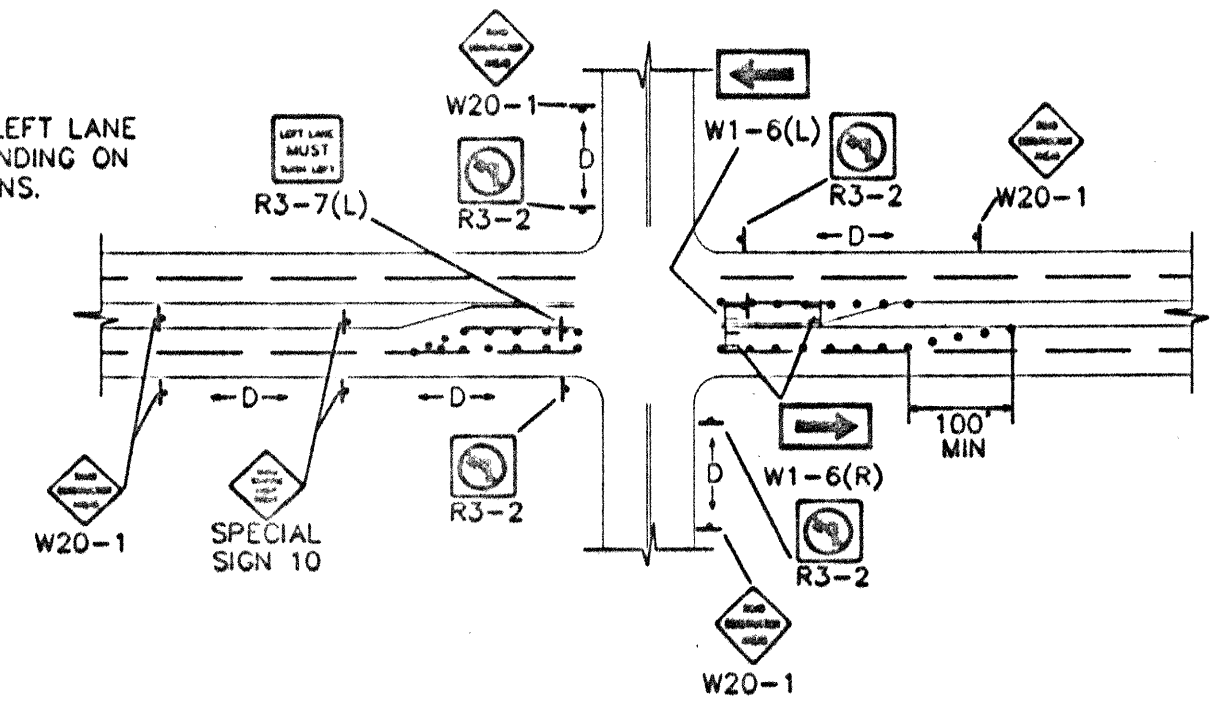
TYPICAL SANITARY SEWER SIPHONING OPERATION

- ALL PITS TO HAVE TYPE-A FLASHING LIGHTS
- ALL PITS TO HAVE FLAGLINE

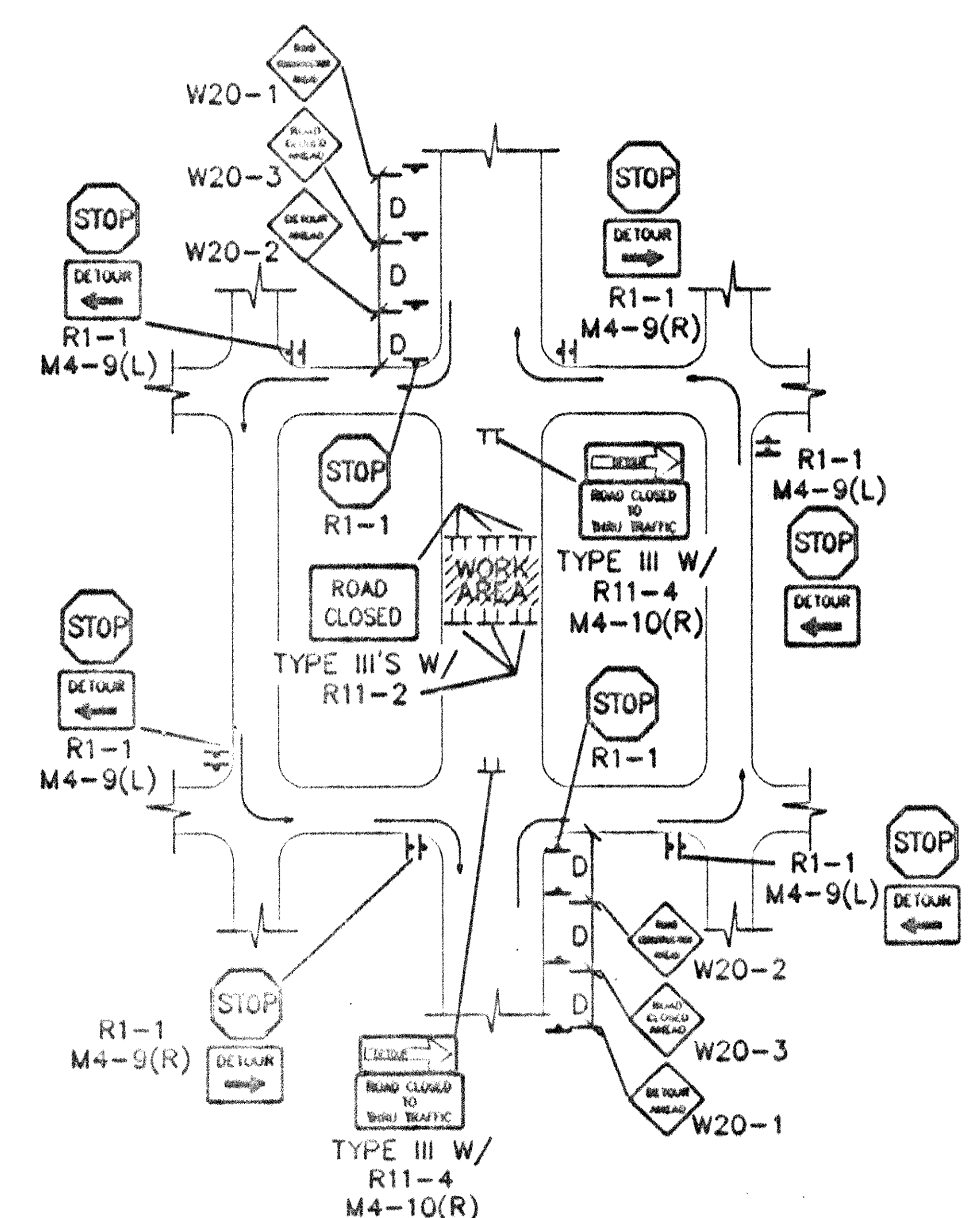
GENERAL NOTE:
ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON AN ORANGE BACKGROUND.

ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF 36" THIRTY SIX INCHES BY 36" THIRTY SIX INCHES IN SIZE AND SHALL HAVE ONE WARNING LIGHT.

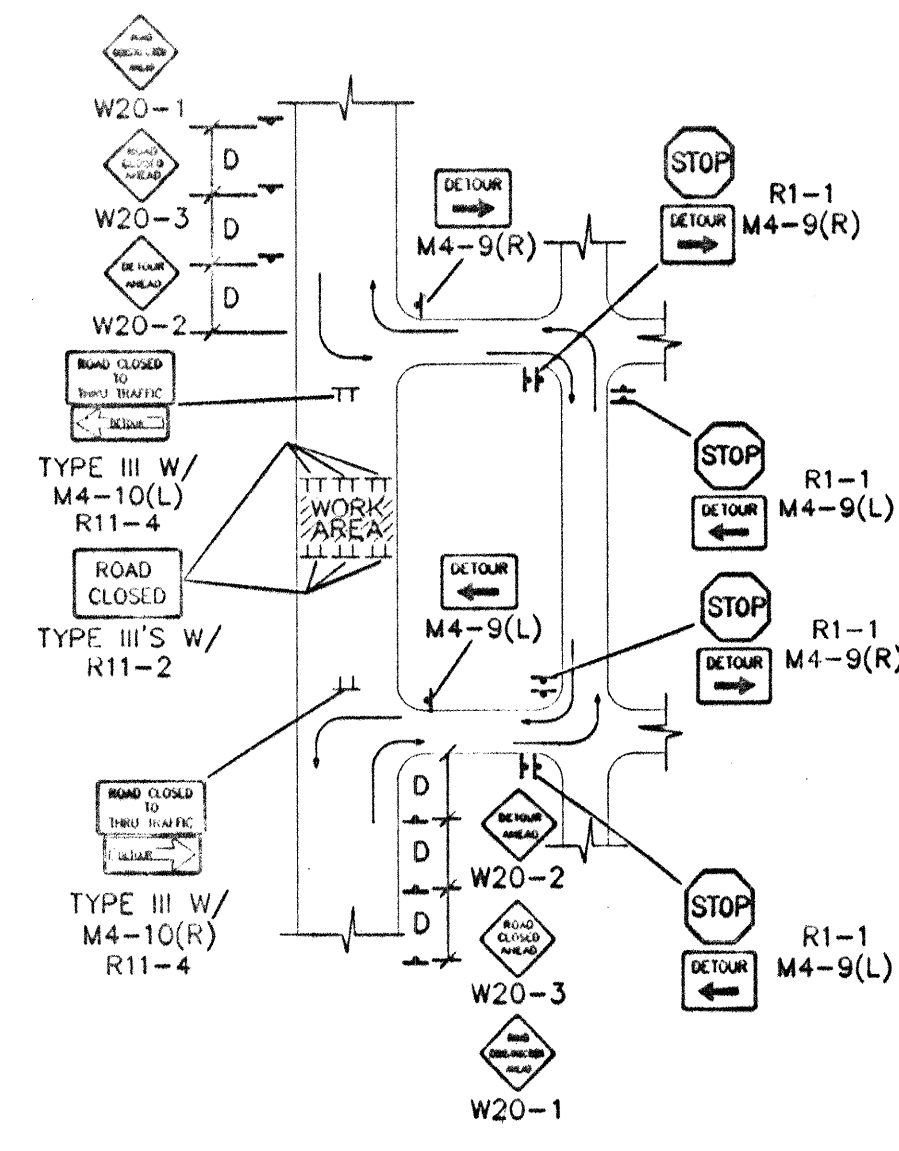
NOTE:
MAY REQUIRE LEFT LANE CLOSURE DEPENDING ON FIELD CONDITIONS.



TYPICAL LANE CLOSURE AT INTERSECTION
NOTE: DEPENDING ON WORK ZONE LOCATION.

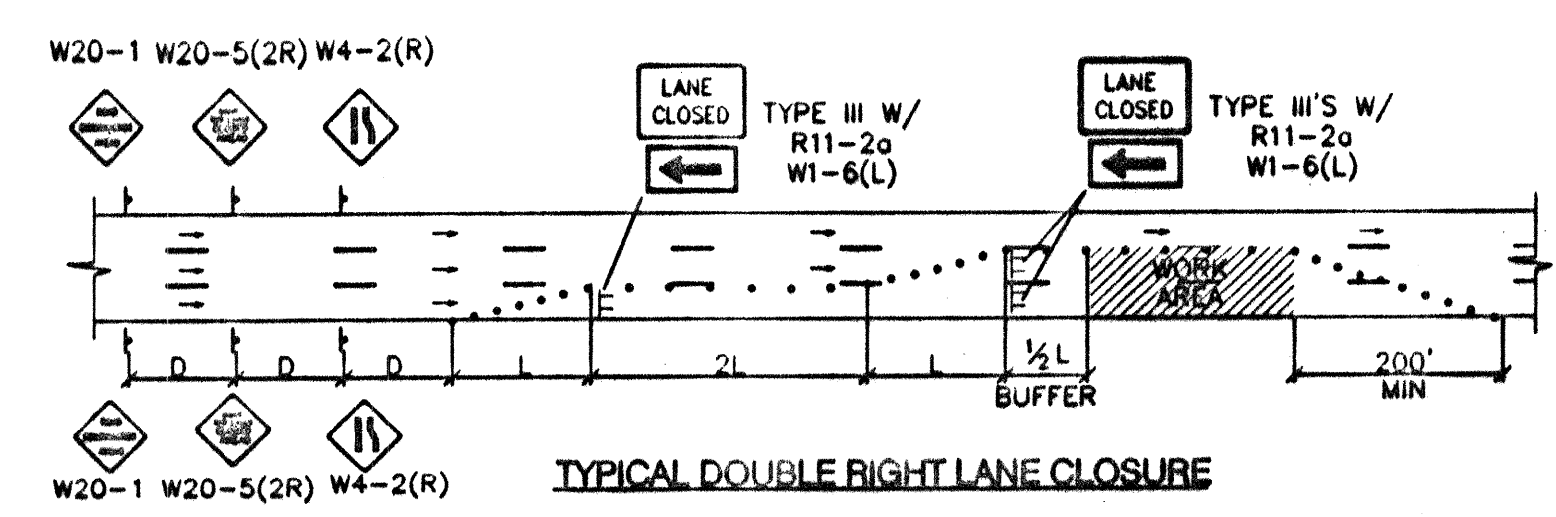


TYPICAL MID-BLOCK CLOSURE
NOTE: (R1-1) BASED ON FIELD CONDITIONS.

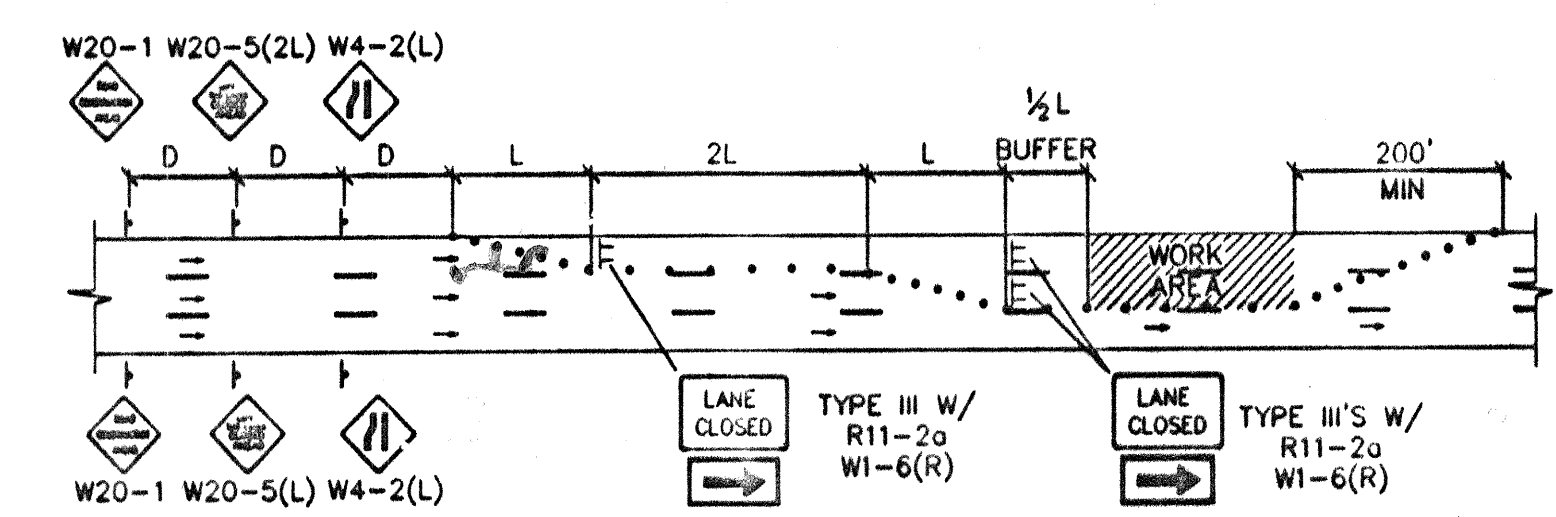


TYPICAL STREET CLOSURE

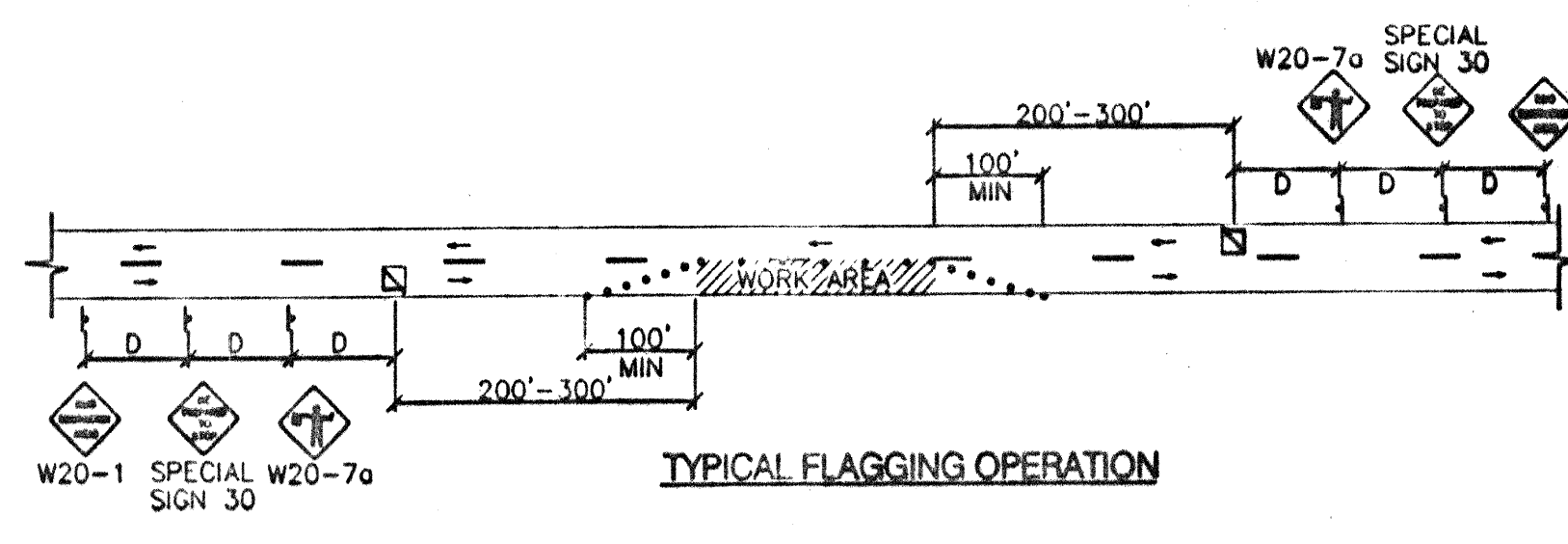
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



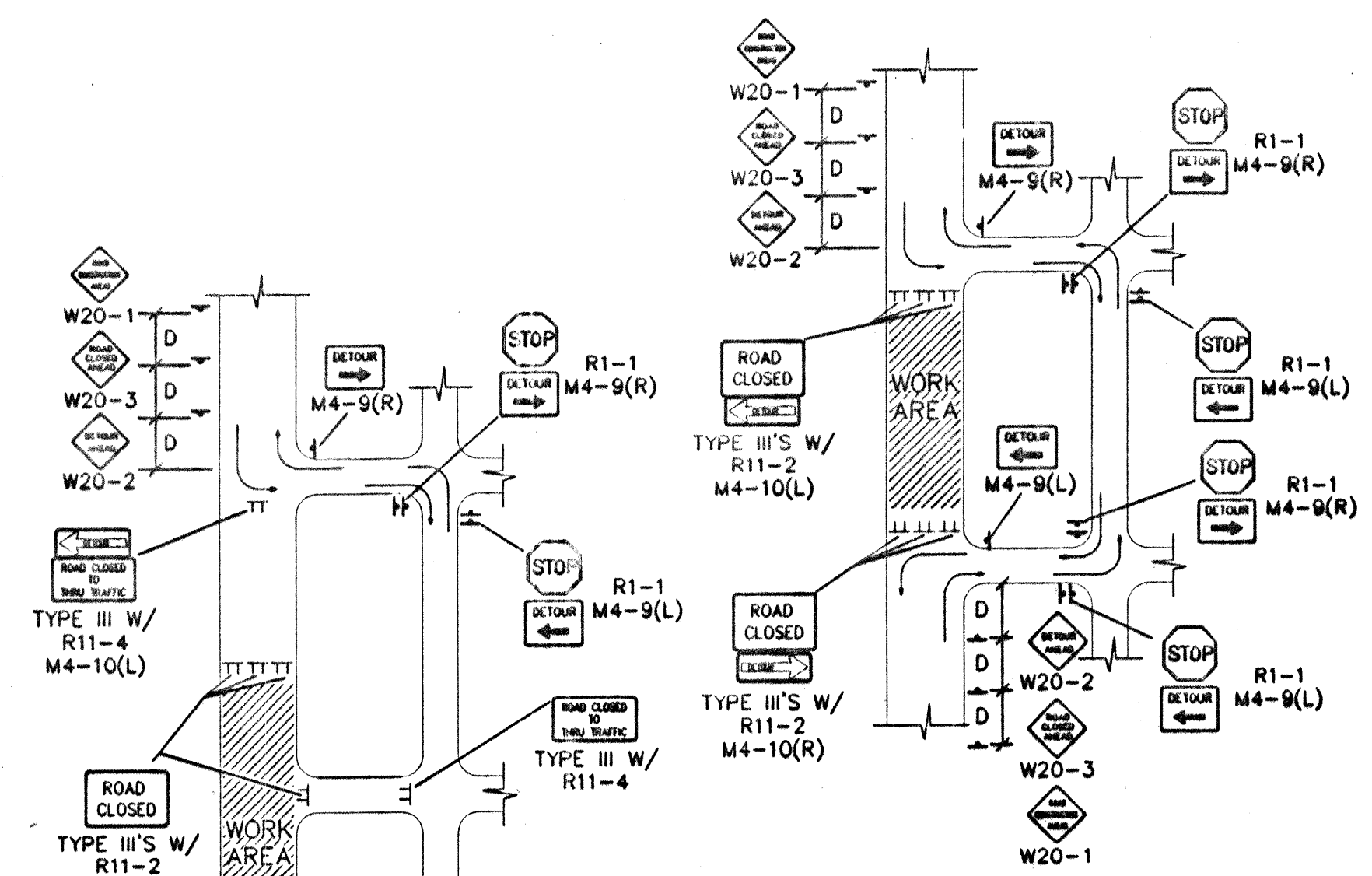
TYPICAL DOUBLE RIGHT LANE CLOSURE



TYPICAL DOUBLE LEFT LANE CLOSURE

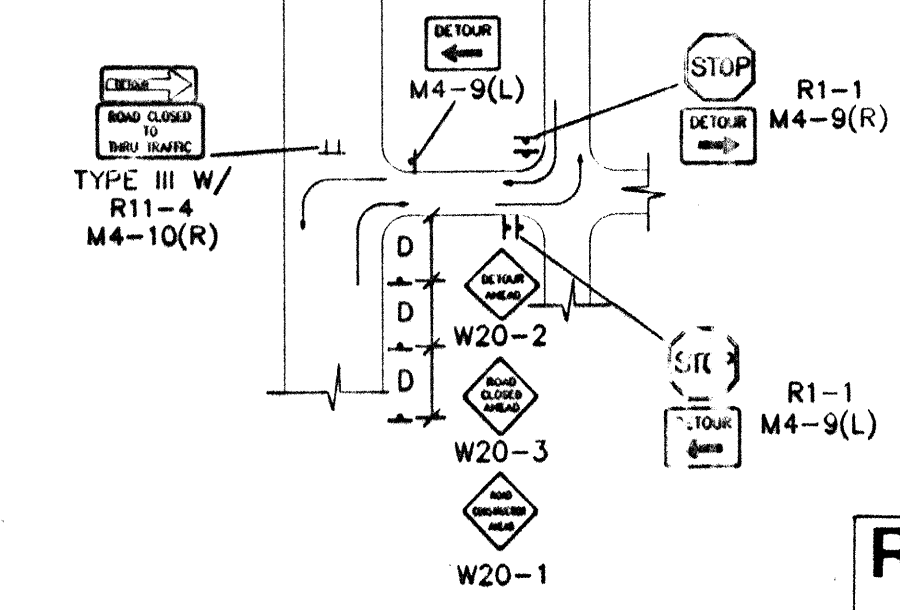


TYPICAL FLAGGING OPERATION



TYPICAL STREET CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.



TYPICAL STREET CLOSURE

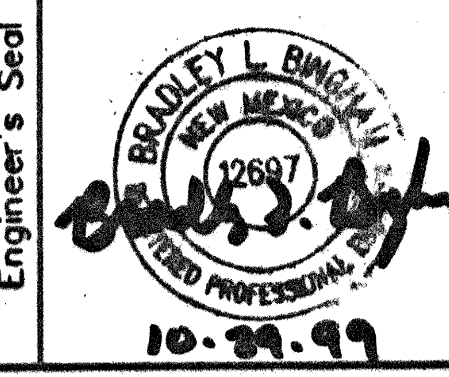
NOTE: (R1-1) BASED ON FIELD CONDITIONS.

RECORD DRAWING
DATE: 7-26-00

FOR REFERENCE ONLY



Bernalillo County
Public Works Department
State of New Mexico



Bohannon & Huston
Certified One 7500 REFERENCE IN Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

Date Drawn: 8/16/99

Revisions:
1
2
3
4
5

Drawn By:
Checked By: BLB
Project Title
EL PATIO ALEGRA
SUBDIVISION

Sheet Title
TRAFFIC CONTROL
SHEET

Scale: 1:1

Sheet Number
11

DRB # 98-351

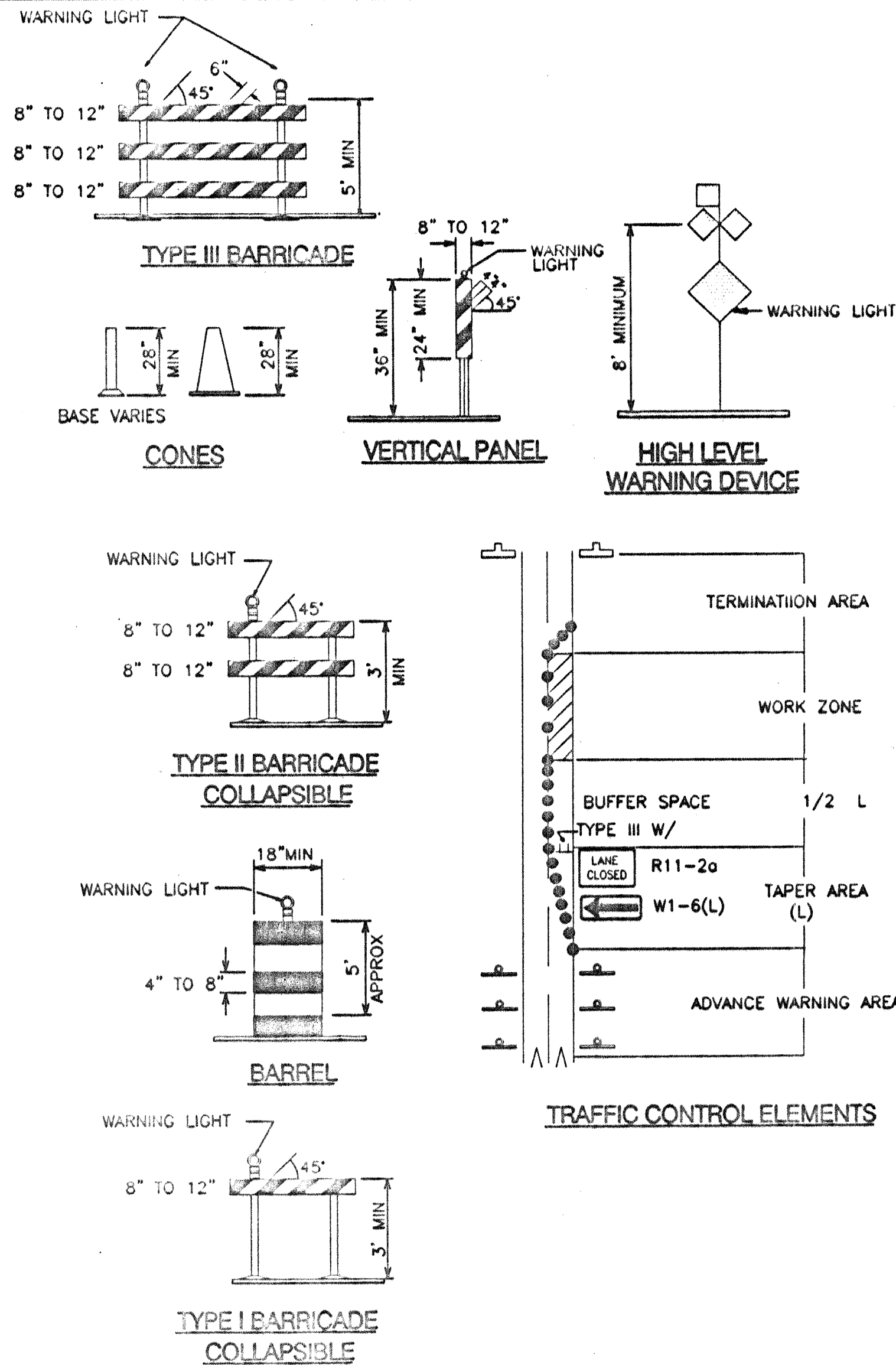
BHI JOB NO. 00113

Copyright Bohannon Huston 1999
Date 8/16/99

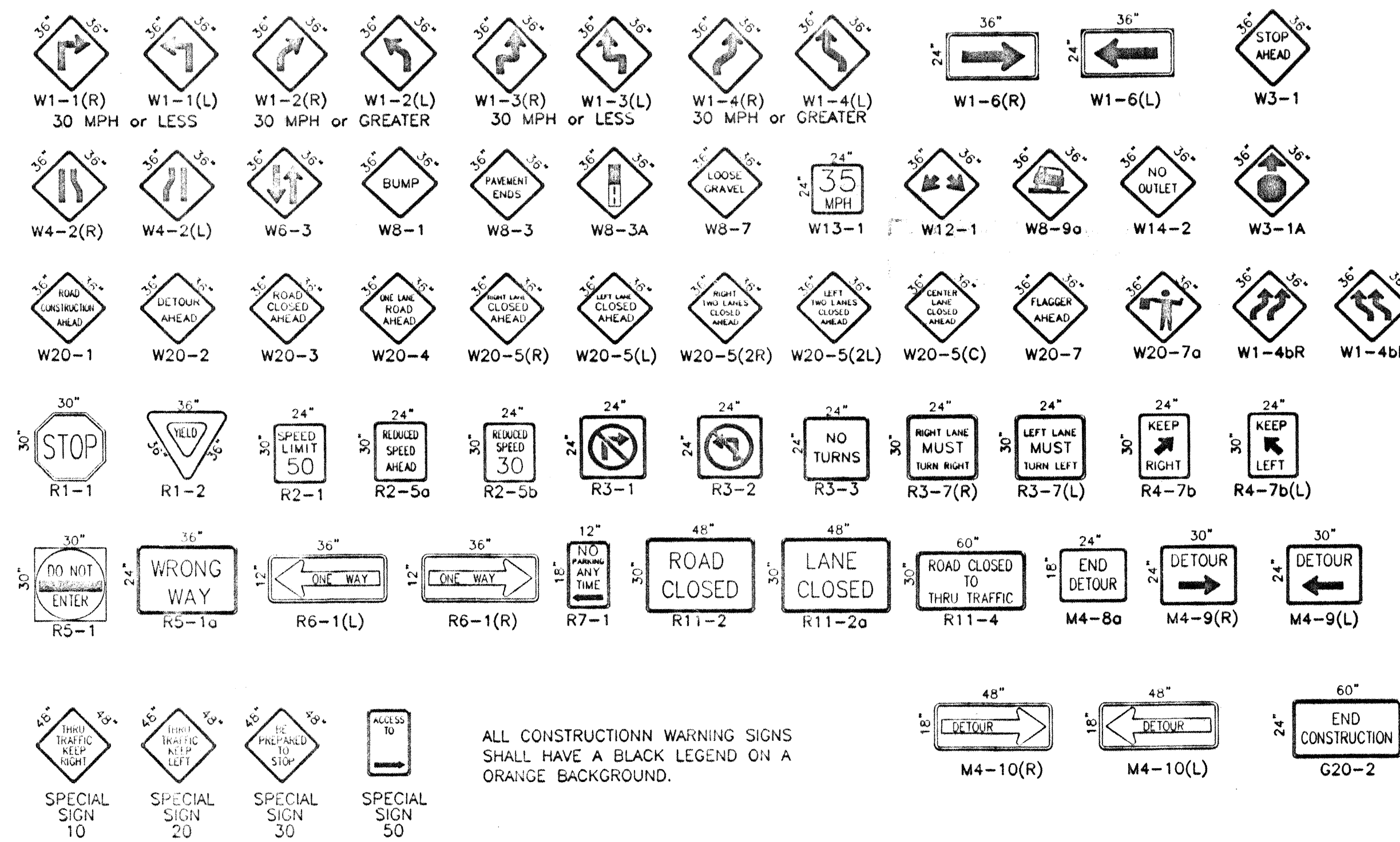
CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

- 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.
- 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.
- 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.
- CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24 HOUR PER DAY BASIS UNTIL COMPLETED.
- 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.
- EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.
- CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.
- 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 AN ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.
- 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.
- 48 HOURS PRIOR TO OCCUPANCY 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.
- ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

- 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.
- CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
 - STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
 - THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
 - SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.
- 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.
- ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO ITS PLACEMENT AND MAINTENANCE.
- TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.
- ADVANCE WARNING SIGNS SHALL BE 36"x36" MIN. WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE M.U.T.C.D.
- CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORKSITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPMENT, BOTH PERMANENT AND TEMPORARY.



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 STREET LIMIT OF THE STREET
 - TAPER LENGTH - SEE CHART BELOW
- THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.

TAPER REQUIREMENT

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 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
DOWNSTREAM TAPERS	100 FEET PER LANE

TAPER LENGTH COMPUTATION

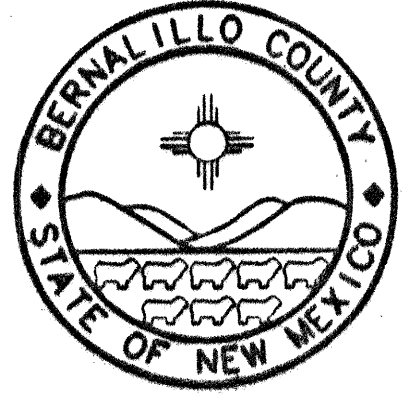
SPEED LIMIT	
40 MPH OR LESS	$L = \frac{WS^2}{60}$
40 MPH OR GREATER	$L = W \times S$

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

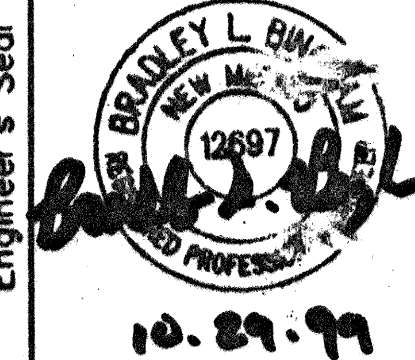
RECORD DRAWING

DATE: 7-26-00

FOR REFERENCE ONLY



Bernalillo County
Public Works Department
State of New Mexico



Bohannon - Huston
Copyright © 1999 Bohannon & Huston
BUSINESS PLANNING PHOTOGRAPHIC SERVICES SOFTWARE DEVELOPERS

Date Drawn: 8/15/99

Revisions:

1	
2	
3	
4	
5	

Drawn By: LDR

Checked By: BLB

Project Title
EL PATIO ALEGRE SUBDIVISION

Sheet Title
TRAFFIC CONTROL SIGNING SHEET

Scale: 1:1

Sheet Number
12