

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Nineteenth St. Parking Lot ZONE ATLAS/DRNG. FILE #: J-13/03A

LEGAL DESCRIPTION: _____

CITY ADDRESS: _____

ENGINEERING FIRM: Wilson & Company CONTACT: Bob SykesADDRESS: PO Box 3548 PHONE: 345-5345OWNER: City of Albuquerque CONTACT: Alan GoodmanADDRESS: _____ PHONE: 768-2740ARCHITECT: Wilson & Co. CONTACT: Howard KaplanADDRESS: _____ PHONE: 345-5345

SURVEYOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

PRE-DESIGN MEETING:

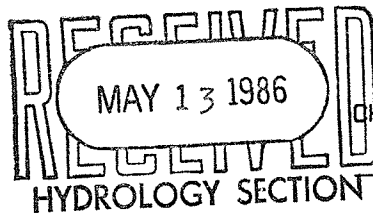
☒ YES☐ NO☒ COPY OF CONFERENCE RECAP
SHEET PROVIDED

DRB NO. _____

EPC NO. _____

PROJ. NO. _____

TYPE OF SUBMITTAL:

☐ DRAINAGE REPORT☐ DRAINAGE PLAN☐ CONCEPTUAL GRADING & DRAINAGE PLAN☒ GRADING PLAN☐ EROSION CONTROL PLAN☐ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

☐ SKETCH PLAT APPROVAL☐ PRELIMINARY PLAT APPROVAL☐ SITE DEVELOPMENT PLAN APPROVAL☐ FINAL PLAT APPROVAL☐ BUILDING PERMIT APPROVAL☐ FOUNDATION PERMIT APPROVAL☐ CERTIFICATE OF OCCUPANCY APPROVAL☐ ROUGH GRADING PERMIT APPROVAL☒ GRADING/PAVING PERMIT APPROVAL☐ OTHER _____ (SPECIFY)DATE SUBMITTED: Robert F. SykesBY: 8 May 1986

Total Head Available on 10" pipe

$$\begin{array}{rcl}
 TC \text{ Elev} & = & 4955.80 \checkmark \\
 Ft \text{ Outlet} & = & 4951.55 \checkmark \\
 & & \underline{4.25} \\
 - \text{Dia Pipe} & & \underline{.83} \\
 H & = & 3.42
 \end{array}$$

Assume Head Loss Factor 1.5

$$\frac{H}{F} = \frac{Q^2}{A_2^2} \times \frac{1}{2g}$$

$$\frac{3.42}{1.50} = \frac{Q^2}{(.55)^2} \times \frac{1}{64.4}$$

$$\begin{array}{l}
 Q^2 = \frac{3.42 \times (.55)^2 \times 64.4}{1.50} \\
 Q^2 = 42.82
 \end{array}$$

$$Q^2 = \frac{A^2 H 2g}{F}$$

$$Q = A \sqrt{\frac{2gH}{F}}$$

$$F = 1 + K_m + K_p L (SCS)$$

Peak discharge $Q = 6.54 \text{ cfs}$ 10" PVC Pipe

STORAGE VOLUME AVAILABLE

Area $A_1 = 5712 \text{ sq ft}$

Volume = $\frac{1}{3} \text{ Area} \times h$

$h = 0.50$

Volume $\frac{1}{3} \times 5712 \times 0.50$

$V = 952 \text{ cu. ft}$

Area $A_2 = 19720 \text{ sq ft}$

$h = 55.80 - 55.42 = 0.38'$

Volume = $\frac{1}{3} (A_1 + A_2 + \sqrt{A_1 \times A_2}) h$

$= \frac{1}{3} (5712 + 19720 + \sqrt{5712 \times 19720}) 0.38$

$= \frac{1}{3} (5712 + 19720 + 10,613) 0.38$

Volume = 4565 cu ft

Total Volume Before overflow to St. = $4565 + 952 = 5517 \text{ cu ft}$
 Volume Req'd = 4864 cu ft

COMP.

CK.

DATE

RECEIVED
MAY 13 1986
HYDROLOGY SECTION

WILSON
& COMPANY
ENGINEERS &
ARCHITECTS

LOC.

FILE

PROJ.

SHEET

SUBJ.

OF

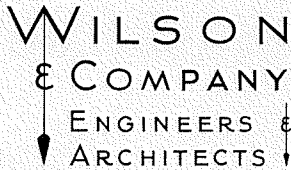
time (min)	Q cfs	Inc. Volume	Total Volume	Total Outflow	Storage Vol. Req'd
1	.54	16.2	16.2	392	
2	1.81	70.5	86.7	785	
3	3.54	160.5	247.2	1177	
4	5.62	274.8	522.0	1570	
5	8.52	424.2	946.2	1962	
6	11.97	614.7	1560.9	2354	
7	14.87	805.2	2366.1	2747	
8	16.87	952.2	3318.3	3139	179
9	17.96	1044.9	4363.2	3532	831
10	18.14	1083.0	5446.2	3924	1522
11	17.96	1083.0	6529.2	4316	2213
12	16.87	1044.9	7574.1	4709	2865
13	15.60	974.1	8548.2	5101	3447
14	14.15	892.5	9440.7	5494	3947
15	12.33	794.4	10235.1	5886	4349
16	10.16	674.7	10909.8	6278	4632
17	8.34	555.0	11464.8	6671	4794
18	7.07	462.3	11927.1	7063	4864
19	5.99	391.8	12318.9	7456	4863
20	5.08	332.1	12651.0	7848	4803
22	3.75	529.8	13180.8	8633	4548
24	2.67	385.2	13566.0	9418	4148
26	1.94	276.6	13842.6	10202	3641
28	1.40	200.4	14043.0	10987	3096
30	1.00	144.0	14187.0	11772	2415
32	0.73	103.8	14290.8	12557	1733
34	0.53	75.6	14366.4	13342	1024
36	0.38	50.6	14421.0	14127	295
38	0.27	39.0	14460.0	14911	-
40	0.20	28.2	14488.2		
45	0.09	13.5	14531.7		
50	0.00		14545.2		

Max Storage

10" Pipe flow Q_p with $H = 3.42$
Use factor 1.5 for losses

$$H = 1.5 \frac{Q^2}{A^2} \cdot \frac{1}{2g} \quad 3.42 = \frac{Q^2}{(1.54)^2} \times 1.5 \times \frac{1}{64.4}$$

$$Q^2 = 42.82 \quad Q = 6.54$$



505 345-5345

ENGINEERS
ARCHITECTS
PLANNERS

Office Location... 6611 GULTON CT., N.E. ■ ALBUQUERQUE, NEW MEXICO 87109

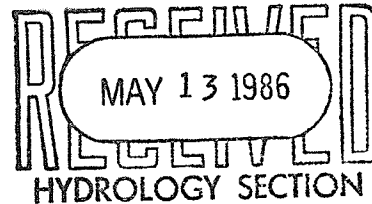
An Equal Opportunity
Employer

Mailing Address... P.O. BOX 3548 ■

ALBUQUERQUE, NEW MEXICO 87190

8 May 1986

Mr. Billy Goolsby
Hydrology Section
City of Albuquerque
P. O. Box 1293
Albuquerque, NM 87103



Re: Nineteenth Street Parking Improvements
Grading/Paving Permit Approval
WCEA File: 86-506

Dear Mr. Goolsby:

Attached are grading and layout plans for the proposed Nineteenth Street Parking Lot Improvements.

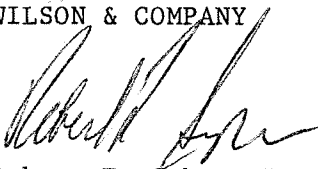
The storm water will be discharged to the existing storm drainage system via a new inlet and 10-inch pipe discharging to existing catch basin at northwest corner of Nineteenth Street and Old Town Road.

Based on the attached calculation the peak discharge rate from the parking lot is 18.14 cfs and the peak discharge rate for 10-inch pipe is 6.54 cfs. This will necessitate a ponding storage area with a capacity of 4.864 cu.ft. The available capacity for storage is 5.517 cu.ft.

The peak discharge rate from the undeveloped site is 10.67 cfs, therefore I believe the proposed improvements will provide some relief for the existing storm drainage system.

I will be glad to answer any questions you may have about this project.

WILSON & COMPANY



Robert F. Sykes, P.E.
Partner

Attachment

-sap



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DESIGN HYDROLOGY SECTION
123 Central NW, Albuquerque, NM 87102
(505) 766-7644

May 22, 1986

Robert F. Sykes, P.E.
Wilson & Company
Post Office Box 3548
Albuquerque, New Mexico 87190

RE: GRADING PLAN SUBMITTAL OF 19TH STREET PARKING FACILITY
RECEIVED MAY 13, 1986 FOR GRADING & PAVING PERMIT APPROVAL
(J-13/D3A)

Dear Robert:

The above referenced submittal, dated May 12, 1986, is approved for Grading & Paving permit. This letter will serve as your permit to proceed with work.

A separate permit will be required to tie the proposed 10" PVC storm drain into the existing catch basin.

Notify this office when paving is completed for a final inspection, with reference to the drainage file number.

If you have any questions, call me at 766-7644.

Cordially,

Roger A. Green, PE

Roger A. Green, P.E.
C.E./Hydrology Section

CC: Alan Goodman, COA;
Parking Division

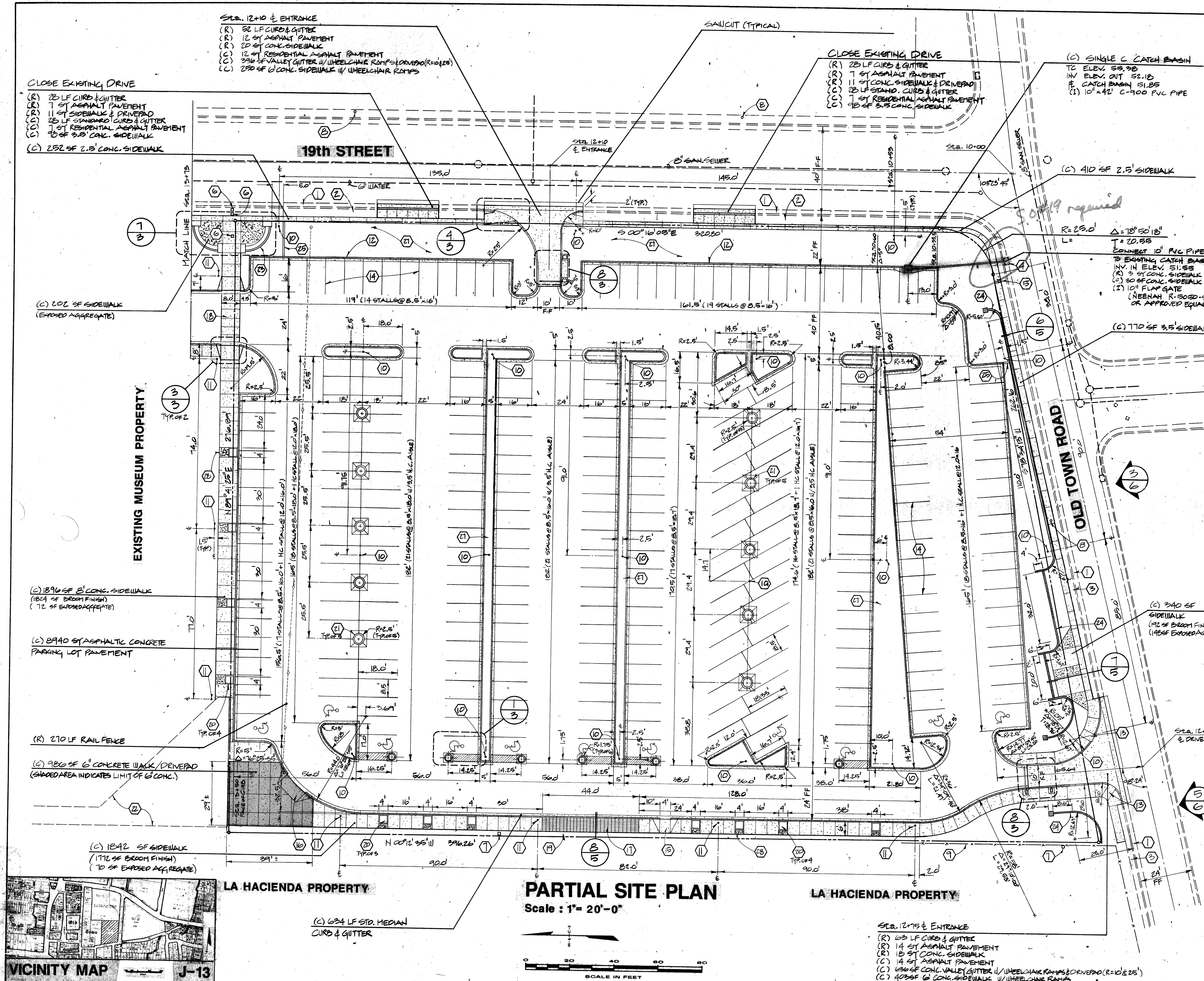
RAG/bsj

MUNICIPAL DEVELOPMENT DEPARTMENT

ENGINEERING DIVISION

Telephone (505) 766-7467

AN EQUAL OPPORTUNITY EMPLOYER



KEYED NOTES

- Existing curb and gutter
- Existing 3.5 ft. sidewalk
- Existing 2.5 ft. sidewalk
- Existing drop inlet
- Existing fire hydrant
- Existing water meter
- Existing telephone pedestal
- Existing power pole
- Existing chain link fence
- Light pole, 20 ft. - see Site Electrical Plan
- Light pole, 10 ft. - see Site Electrical Plan
- Standard median curb and gutter
- Handicap Ramp - as per City standards
- 4 inch wide striping - white
- 4 foot wide handicap ramp
- 12 foot wide handicap ramp
- Brick pavers - see Section 8/5
- 6 inch thick concrete walk
- Unimproved ground
- Tree well - 48 inches by 42 inches
- Tree well - see Section 4/5
- Existing concrete walk
- Concrete masonry unit wall with stucco float finish, color to match gate booth
- Concrete masonry unit wall with stucco float finish, color to match gate booth - Alternate No. 1
- Mow strip - see Section 11/5
- 4-inch concrete sidewalk
- Planting area
- Exposed aggregate concrete

GENERAL NOTES

1. All Dimensions are to Centerline unless otherwise noted.

APPROVED FOR DRAINAGE

5-27-86

DATE

Robert A. H. Hydrology

SIGNATURE

TITLE

LEGAL DESCRIPTION

Tract 28381

Old Town

Albuquerque, New Mexico

LEGEND

- Property Line
- Centerline
- Existing Utility Line
- Existing Curb and Gutter
- Proposed Curb and Gutter
- Proposed Blockwall
- Proposed Concrete Sidewalk (Broom Finish)
- Proposed Concrete Sidewalk (Exposed Aggregate)
- Proposed Brick Pavers
- Handicap Parking Stall
- Paint Standard Handicap Symbol

CITY OF ALBUQUERQUE

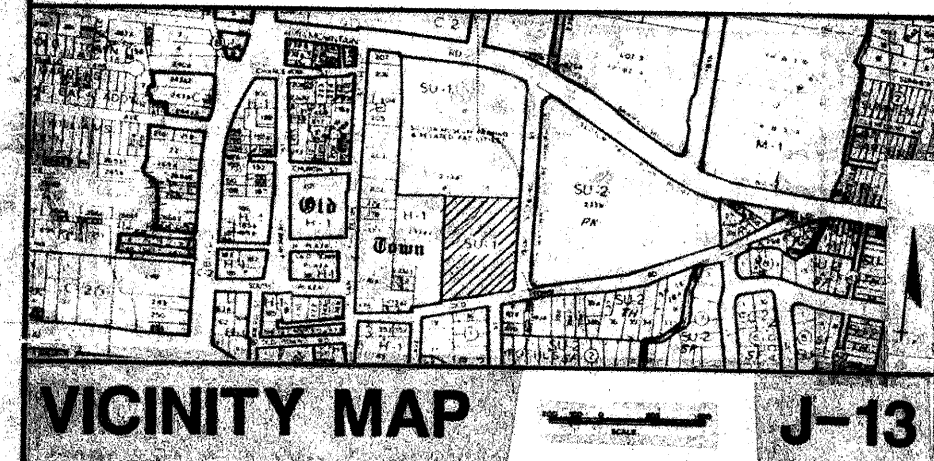
PARKING DIVISION

19TH STREET PARKING FACILITY

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		

REMARKS	NO.	DATE
DESIGNED BY HMK		DATE 28 MAR 1986
DRAWN BY FHM		DATE 21 APR 1986
CHECKED BY HMK		DATE 25 APR 1986

DRAWING NO. 2821MAP NO. J-13SHEET 2 OF 12

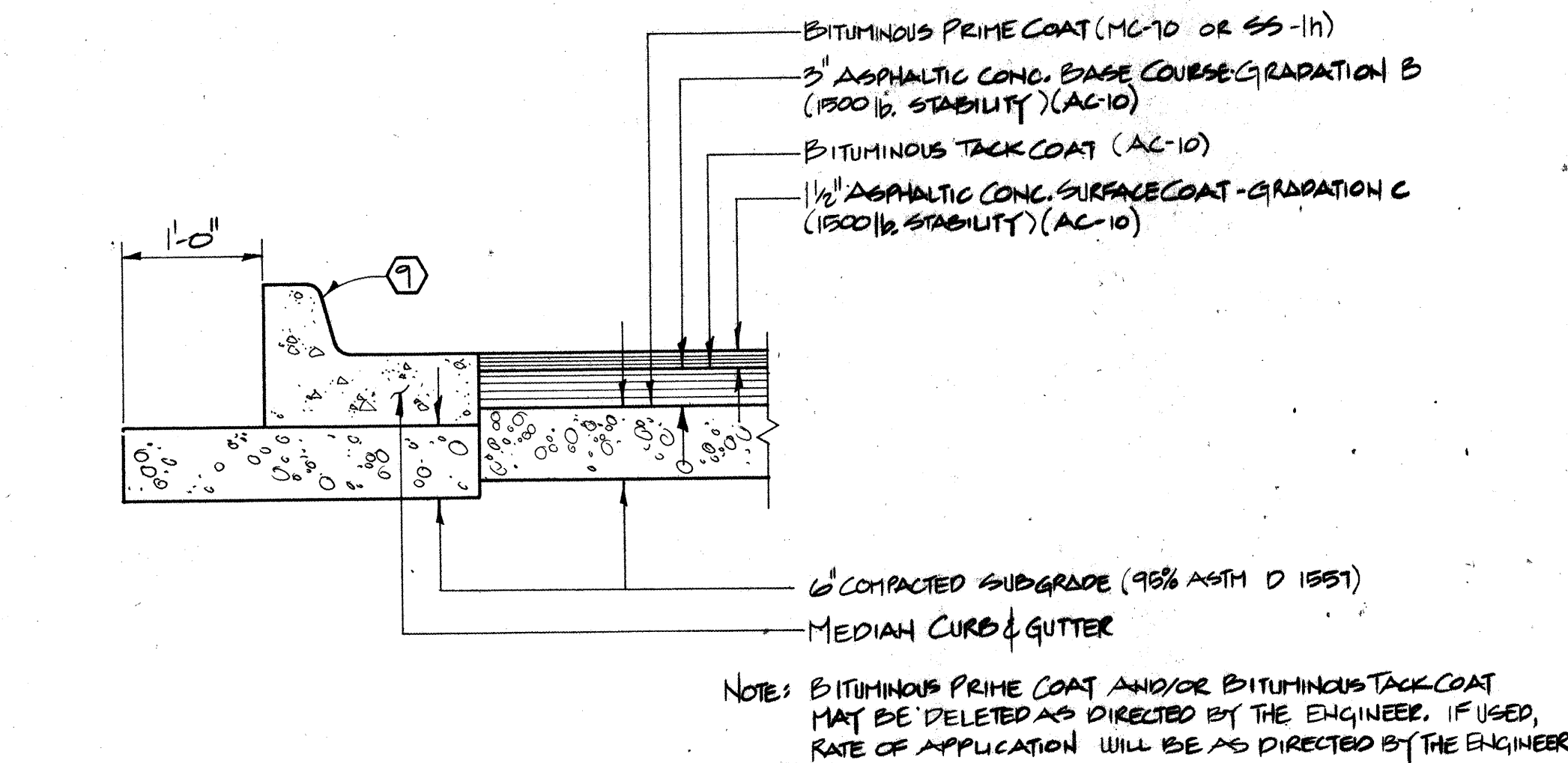


LA HACIENDA PROPERTY

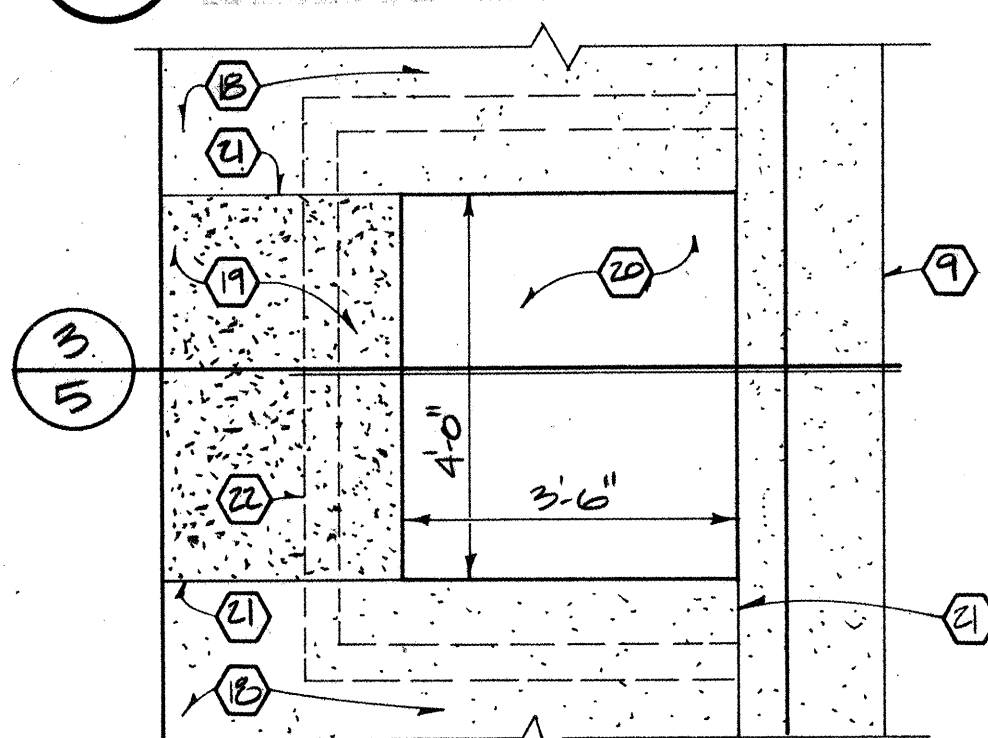
PARTIAL SITE PLAN
Scale: 1" = 20'-0"

LA HACIENDA PROPERTY

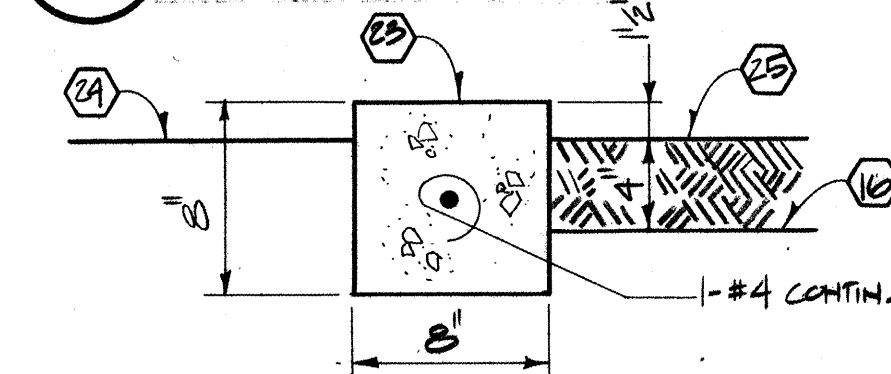
STA. 12+15 & ENTRANCE
(R) 25 LF CURB & GUTTER
(R) 14 ST ASPHALT PAVEMENT
(R) 15 ST CONC. SIDEWALK
(R) 14 ST ASPHALT PAVEMENT
(C) 680 SF CONC. VALLEY GUTTER w/ WHEELCHAIR RAMP & DRIVEPAD (R=10' & 25')
(C) 402 SF 6" CONC. SIDEWALK w/ WHEELCHAIR RAMP



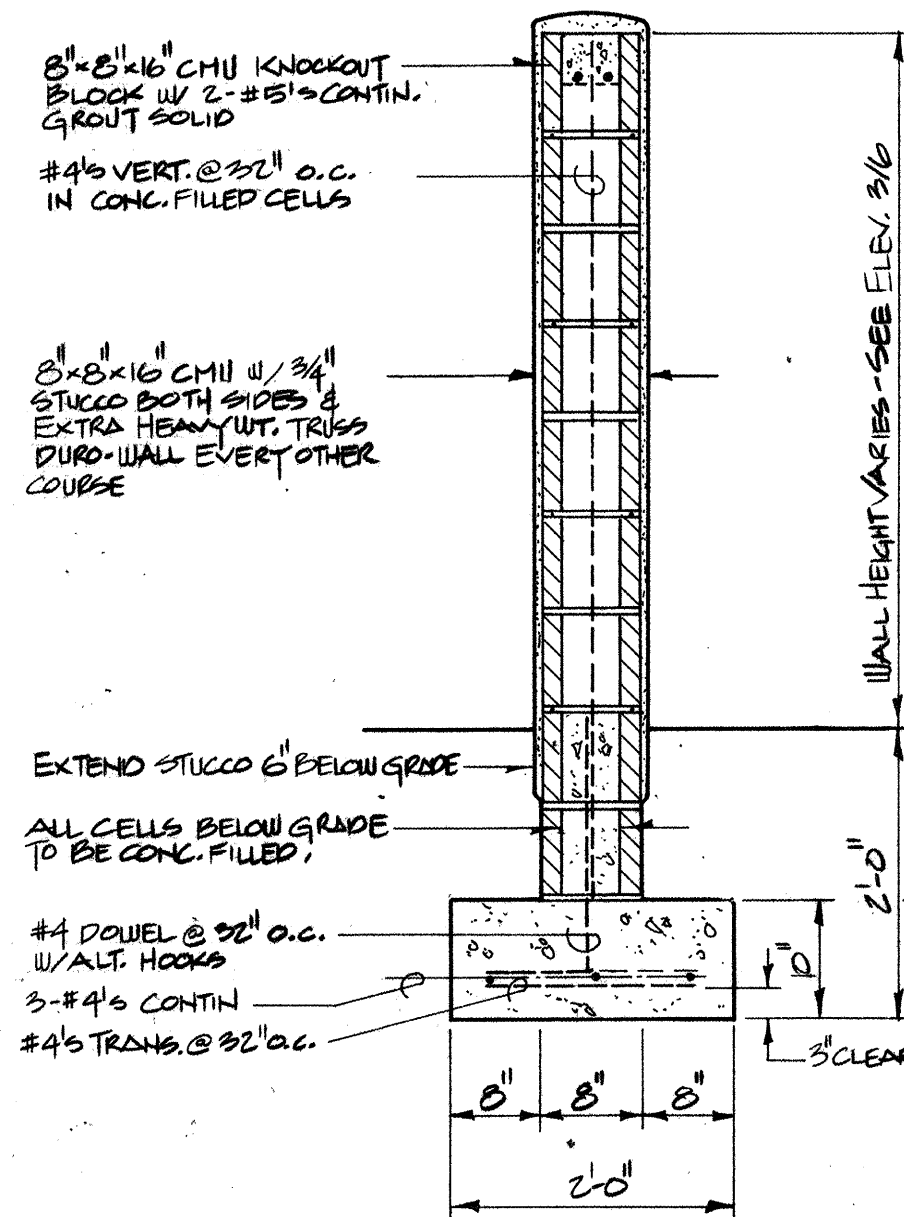
1 ASPHALT PAVING SECTION
Scale: 3/4" = 1'-0"



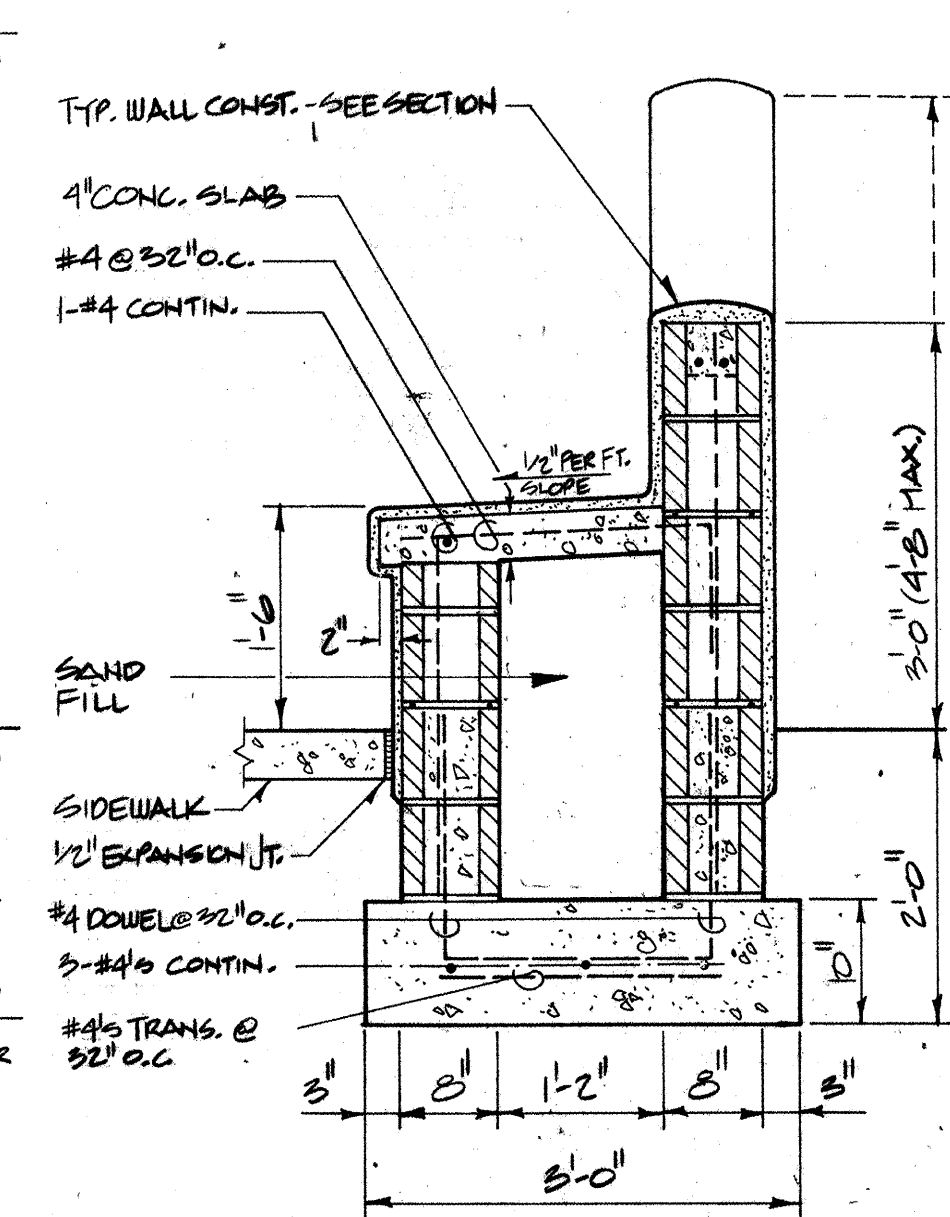
2 TREE WELL PLAN
Scale: 1/2" = 1'-0"



11 MOW STRIP
Scale: 1 1/2" = 1'-0"

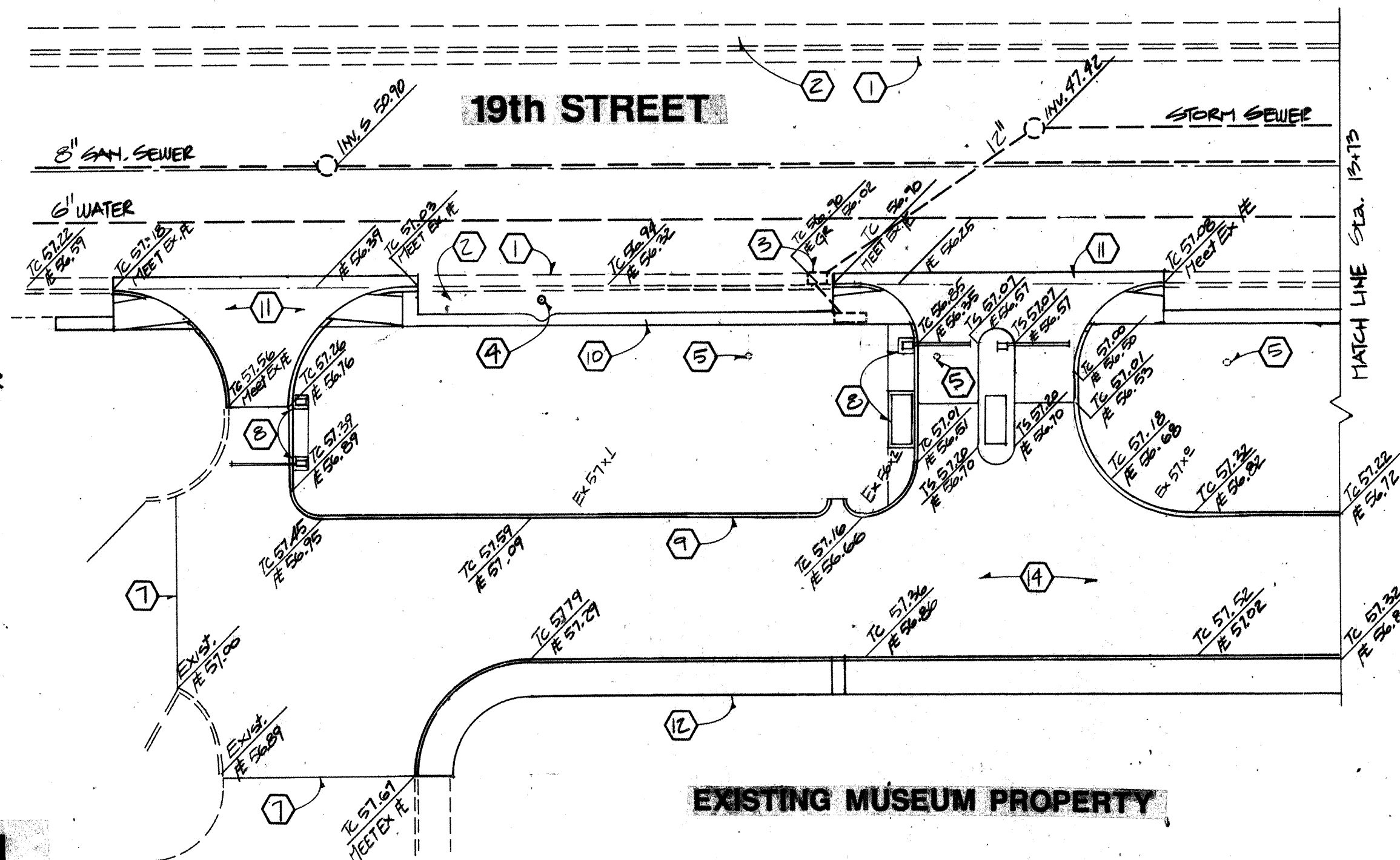


6 TYP. WALL SECTION
Scale: 3/4" = 1'-0"

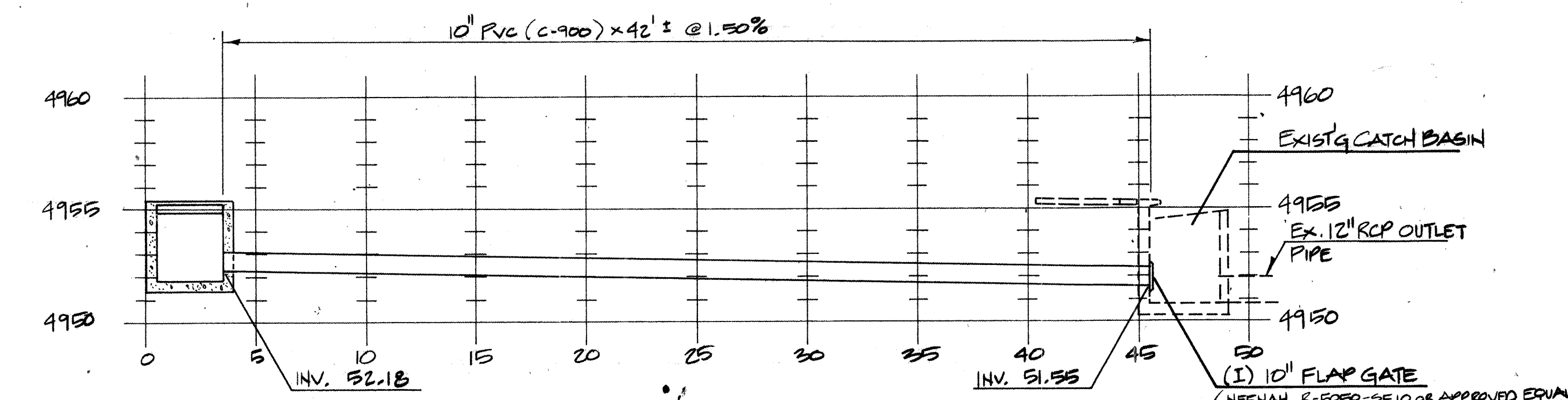
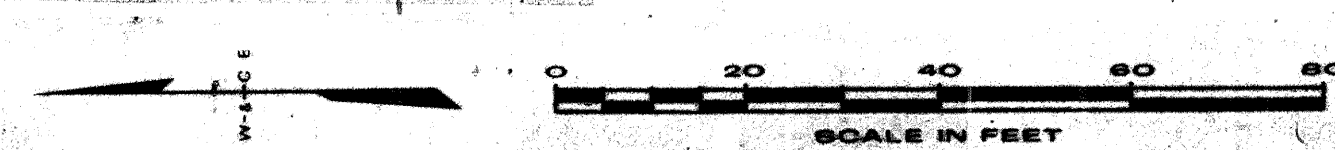


7 BANCO SECTION
Scale: 3/4" = 1'-0"

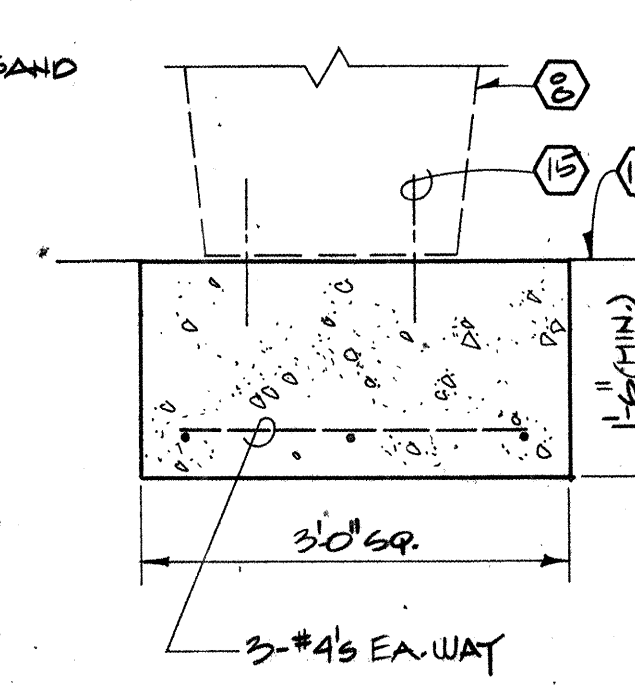
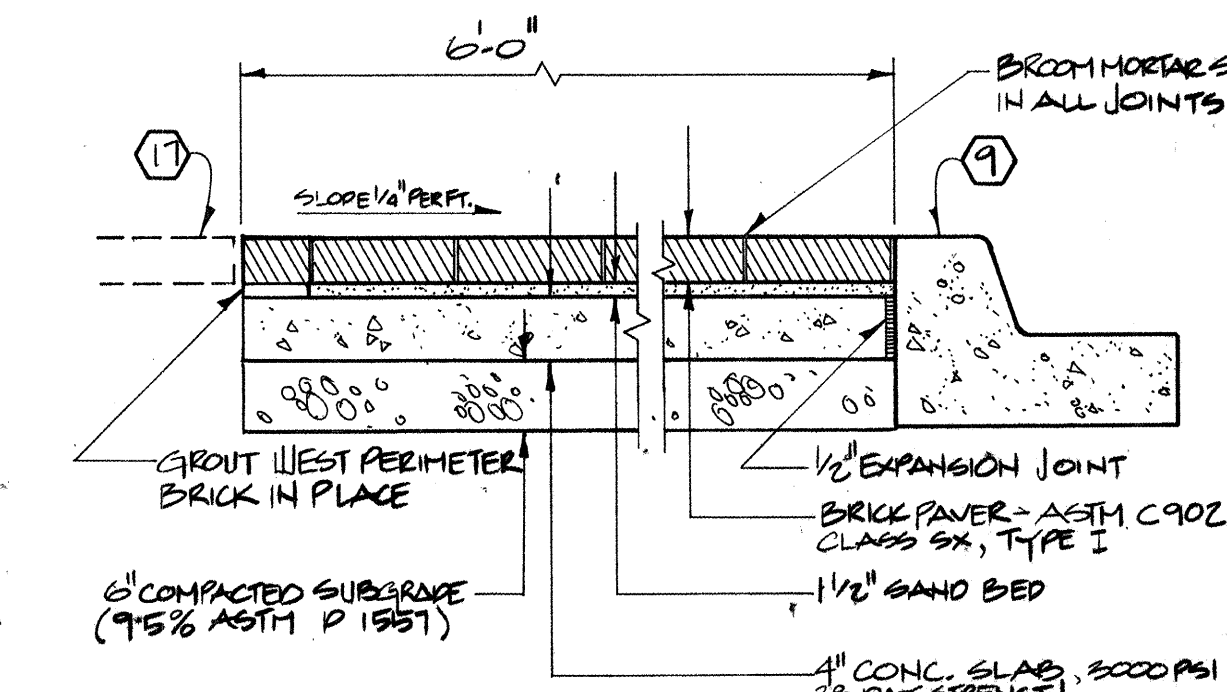
8 BRICK PAVING SECTION
Scale: 3/4" = 1'-0"



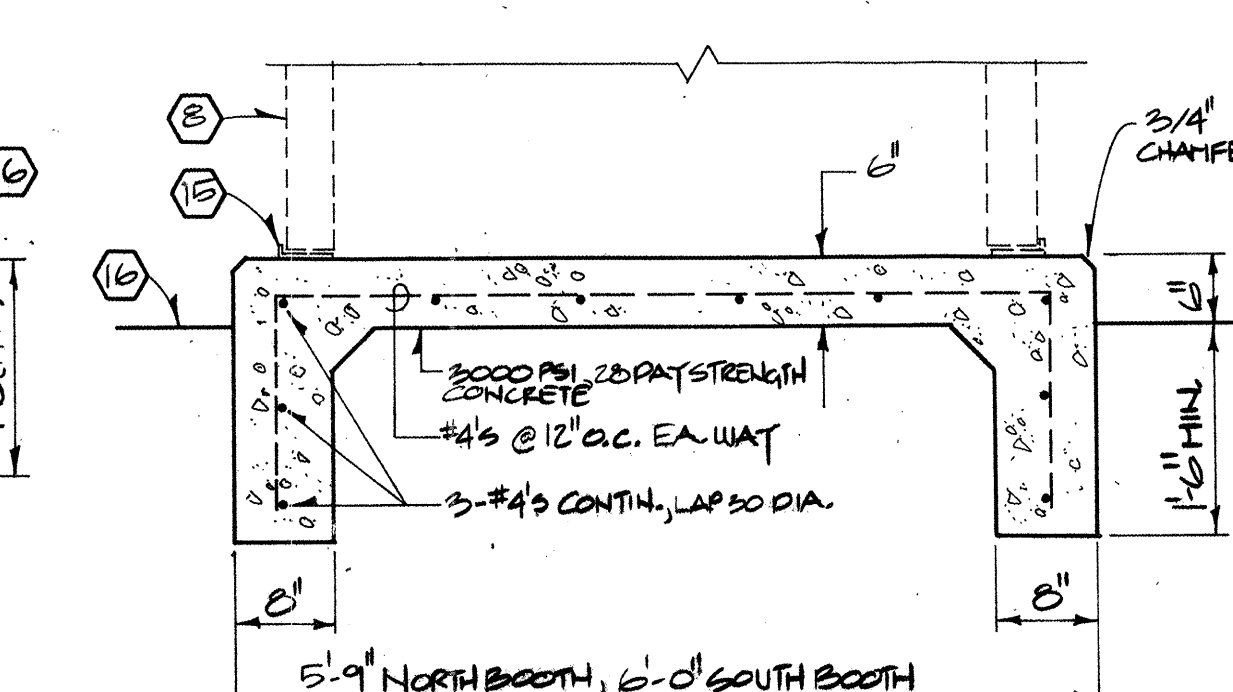
PARTIAL GRADING & DRAINAGE PLAN
Scale: 1" = 20'-0"



PROFILE 10\"/>



9 DETAIL
Scale: 3/4" = 1'-0"



10 DETAIL
Scale: 3/4" = 1'-0"

KEYED NOTES

- Existing curb and gutter
- Existing 3.5 foot sidewalk
- Existing drop inlet
- Existing fire hydrant
- Existing water meter
- Existing 6.0 foot sidewalk
- Line of existing asphalt paving
- Parking equipment
- Standard median curb and gutter
- 2.5 foot concrete sidewalk
- Concrete valley gutter
- 6.0 foot concrete sidewalk
- DELETED
- Asphalt paving
- Anchor as per manufacturer's recommendations
- Finish grade
- Future brick pavers
- Concrete sidewalk - broom finish
- Concrete sidewalk - exposed aggregate
- Planting area
- Expansion joint
- Line of thickened slab
- Concrete mow strip
- Top of sod
- Top of mulch

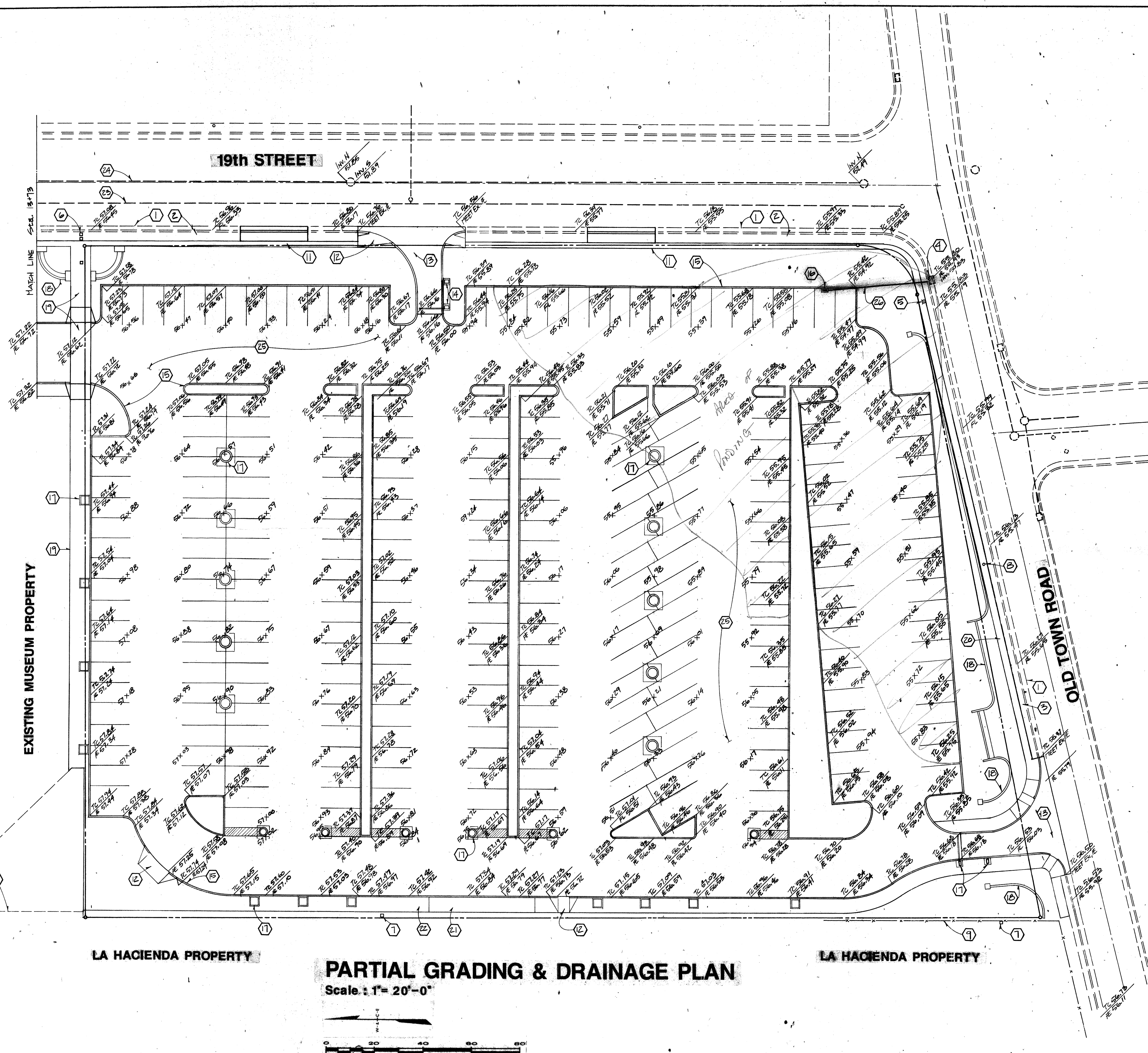
AS BUILT INFORMATION		CONTRACTOR		WORK		DATE	
STARTED BY	INSPECTOR'S	ACCEPTANCE BY	DATE	FIELD	CATION BY	DATE	
DRAWINGS	CORRECTED BY	DATE		MICRO-FILM INFORMATION			
RECORDED BY	DATE						
NO.							

CONTRACTOR	WORK	DATE	CONTRACTOR	DATE	NO.	BY	DATE	NO.	BY	NO.	DATE	NO.	DATE	NO.	DATE	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
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CONTRACTOR	WORK	DATE	CONTRACTOR	DATE	NO.	BY	DATE	NO.	BY	NO.	DATE	NO.	DATE	NO.	DATE	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
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CONTRACTOR	WORK	DATE	CONTRACTOR	DATE	NO.	BY	DATE	NO.	BY	NO.	DATE	NO.	DATE	NO.	DATE	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
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CONTRACTOR	WORK	DATE	CONTRACTOR	DATE	NO.	BY	DATE	NO.	BY	NO.	DATE	NO.	DATE	NO.	DATE	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
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KEYED NOTES

1. Existing curb and gutter
2. Existing 3.5 foot sidewalk
3. Existing 2.5 foot sidewalk
4. Existing drop inlet
5. Existing fire hydrant
6. Existing water meter
7. Existing telephone pedestal
8. Existing power pole
9. Existing chain link fence
10. Existing concrete walk
11. 2.5 foot concrete walk
12. Handicap ramp
13. Valley gutter
14. Parking equipment
15. Standard median curb and gutter
16. Drop inlet - see profile on Sheet 5
17. Planter
18. Concrete masonry wall
19. 8 foot concrete walk
20. 2.5 foot concrete sidewalk
21. Brick paver
22. 6 foot concrete sidewalk
23. 6 inch water line
24. 8 inch sanitary sewer
25. Asphalt paving
26. 10-inch PVC storm drain - see Profile on Sheet 5

VICINITY MAP J-13



LEGAL DESCRIPTION

Tract 233a
Old Town
Albuquerque, New Mexico

LEGEND

- Property Line
- Centerline
- Existing Utility Line
- Proposed Utility Line
- Existing Curb and Gutter
- Proposed Curb and Gutter

CITY OF ALBUQUERQUE
PARKING DIVISION

19TH STREET PARKING FACILITY

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		

DRAWING
NO. 2821

MAP NO.
J-13

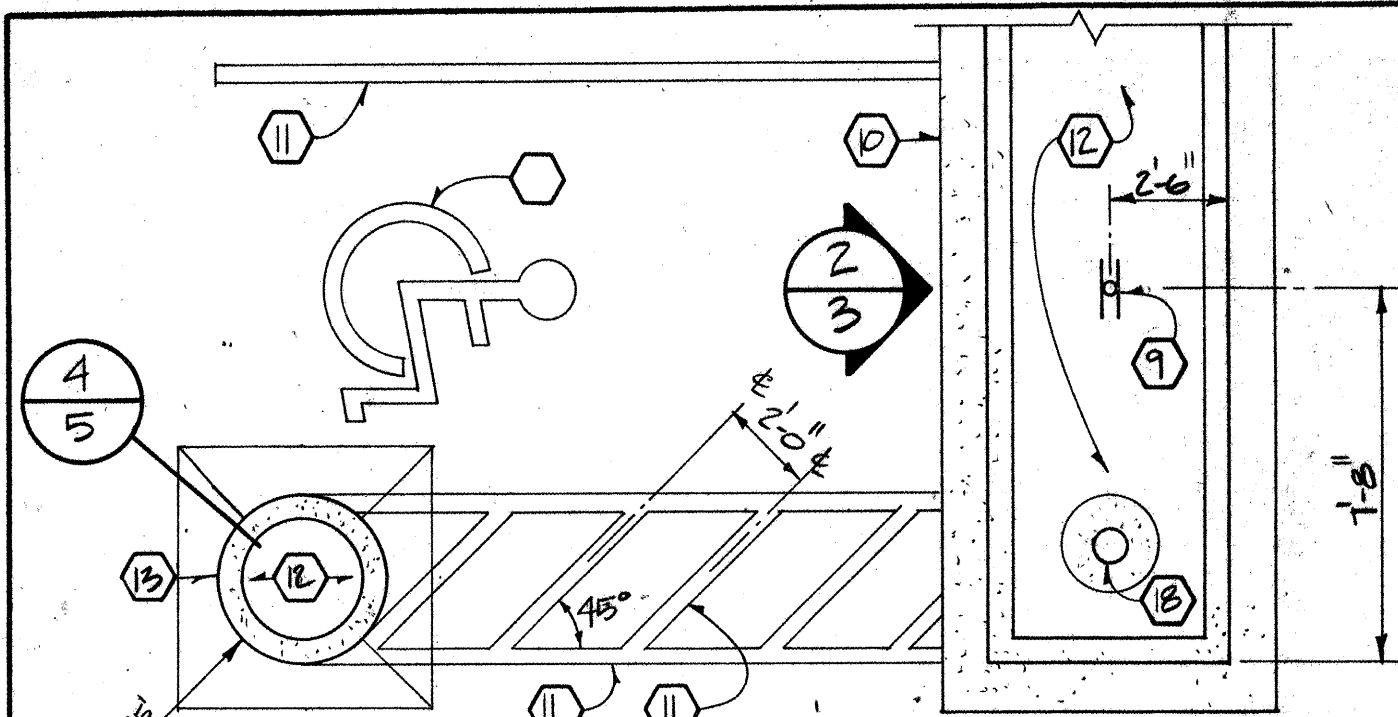
SHEET
4 OF 12

WILSON & COMPANY
ENGINEERS & ARCHITECTS
ALBUQUERQUE, NEW MEXICO

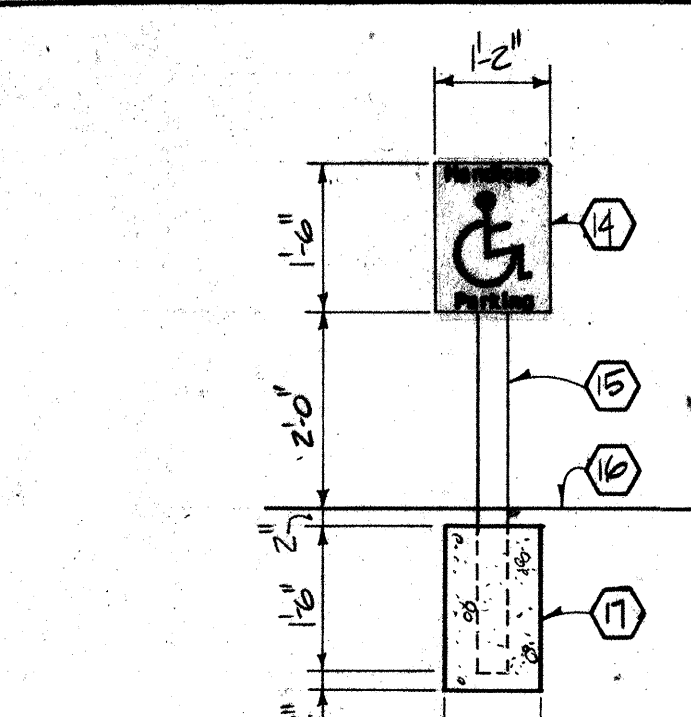
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ACCEPTANCE BY	DATE	STATION	DATE	NO.	BY	DATE	DATE
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RECORDED BY	DATE	STATION	DATE	NO.	BY	DATE	DATE



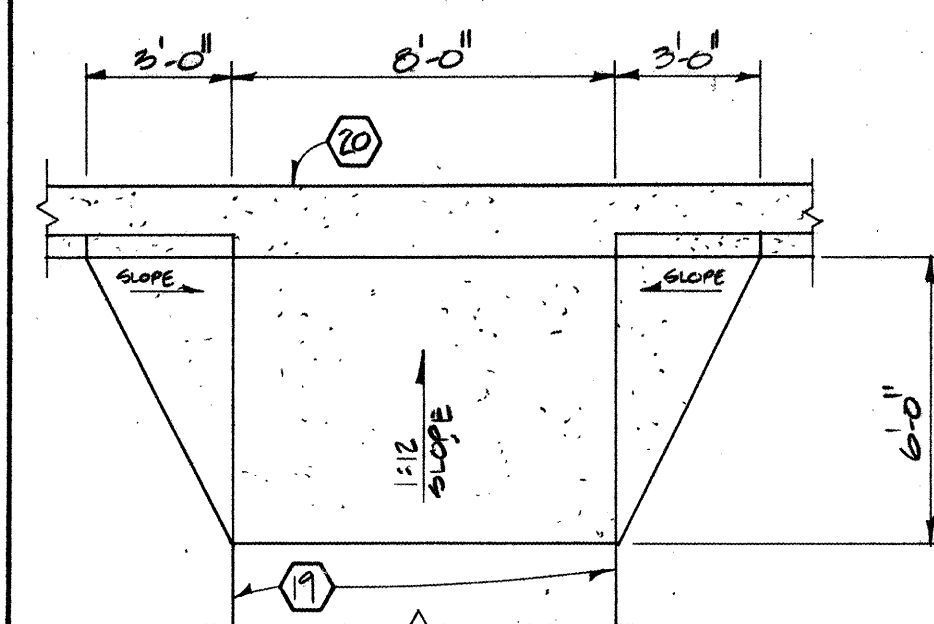
REVISIONS		REMARKS	
NO.	DATE	NO.	DATE
DESIGNED BY RFS	DATE 25 MAR 86	BY	
DRAWN BY FHM	DATE 21 APR 86		
CHECKED BY RFS	DATE 25 APR 86		



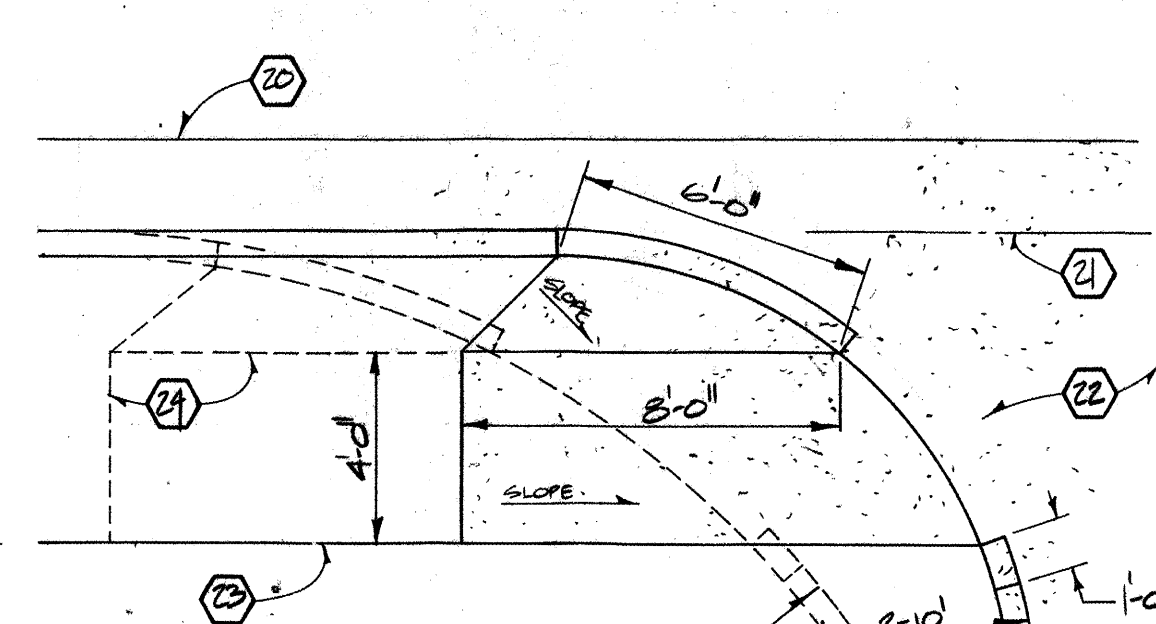
1 ENLARGED PLAN
Scale: 1/4" = 1'-0"



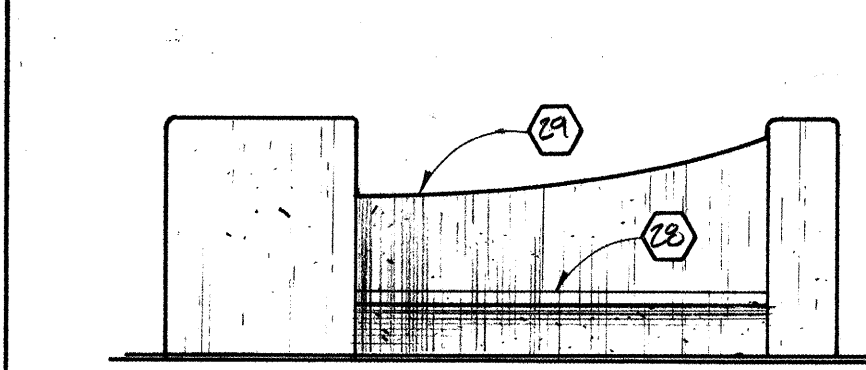
2 HANDICAP SIGN
Scale: 1/2" = 1'-0"



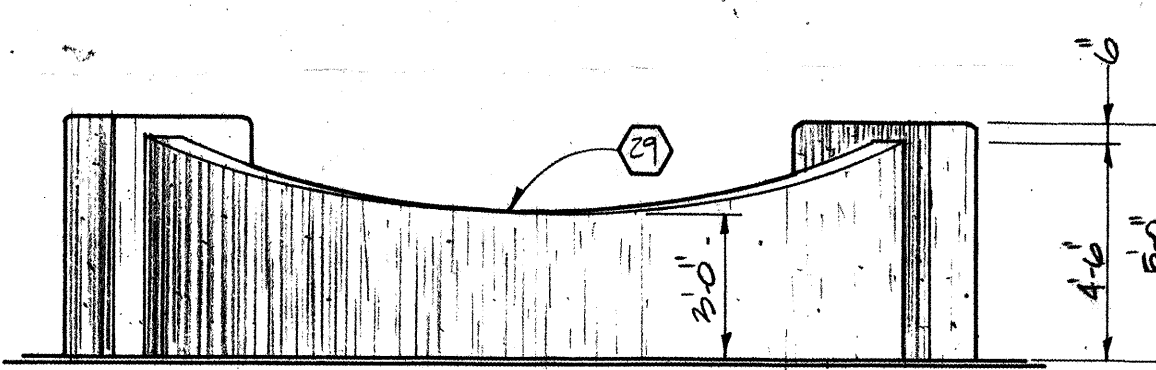
3 ENLARGED PLAN
Scale: 1/4" = 1'-0"



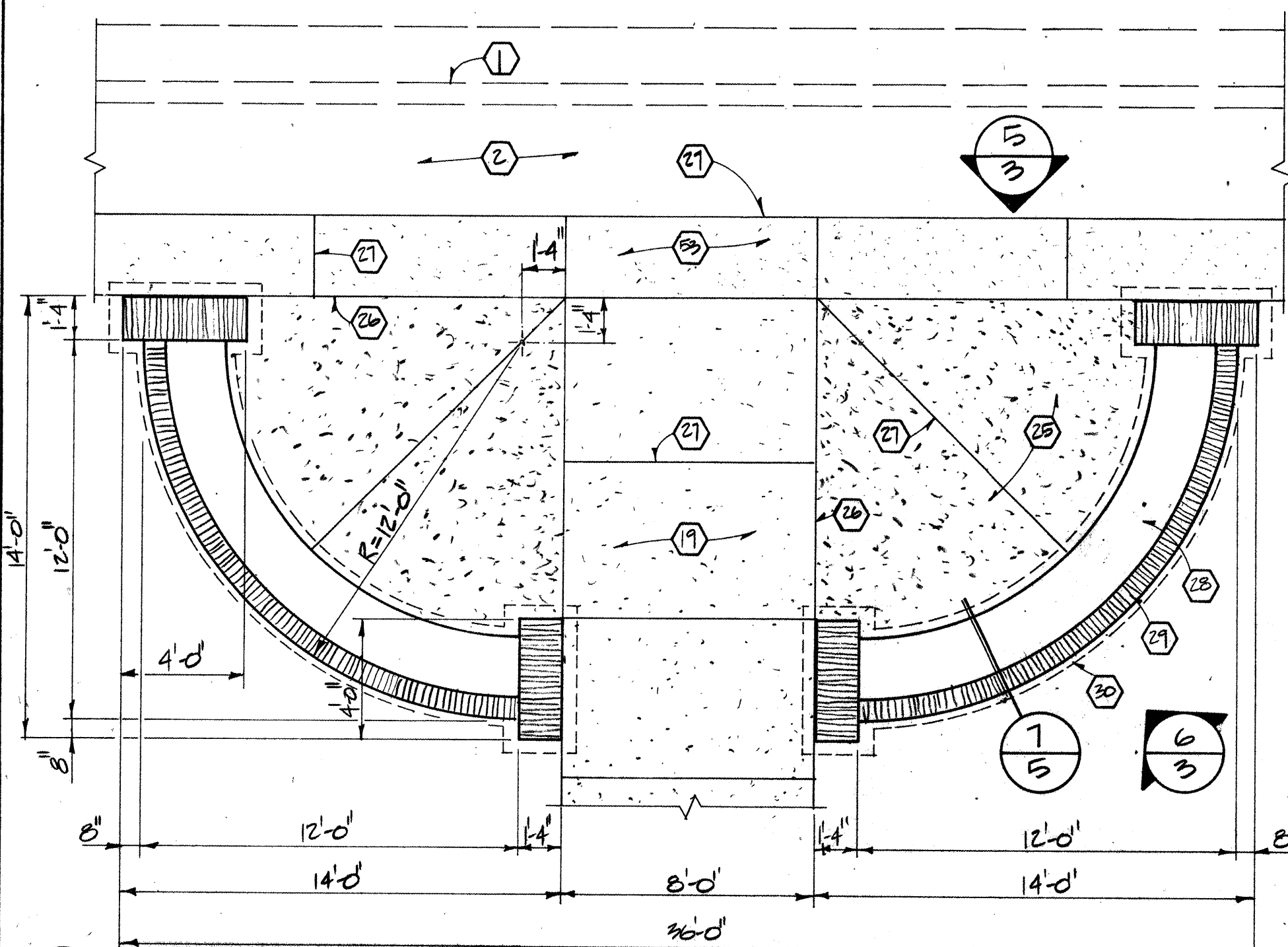
4 ENLARGED PLAN
Scale: 1/4" = 1'-0"



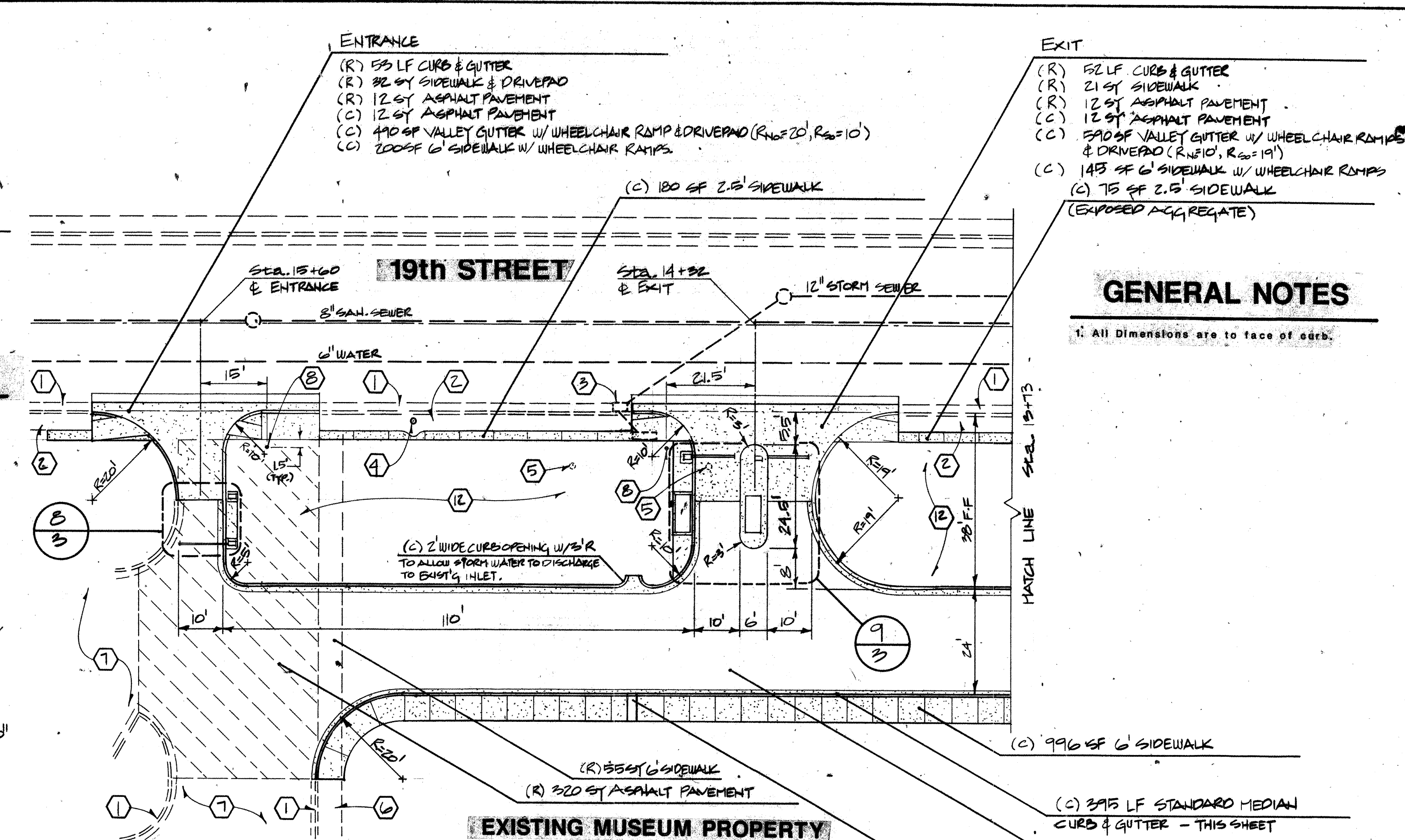
5 WALL ELEVATION
Scale: 1/4" = 1'-0"



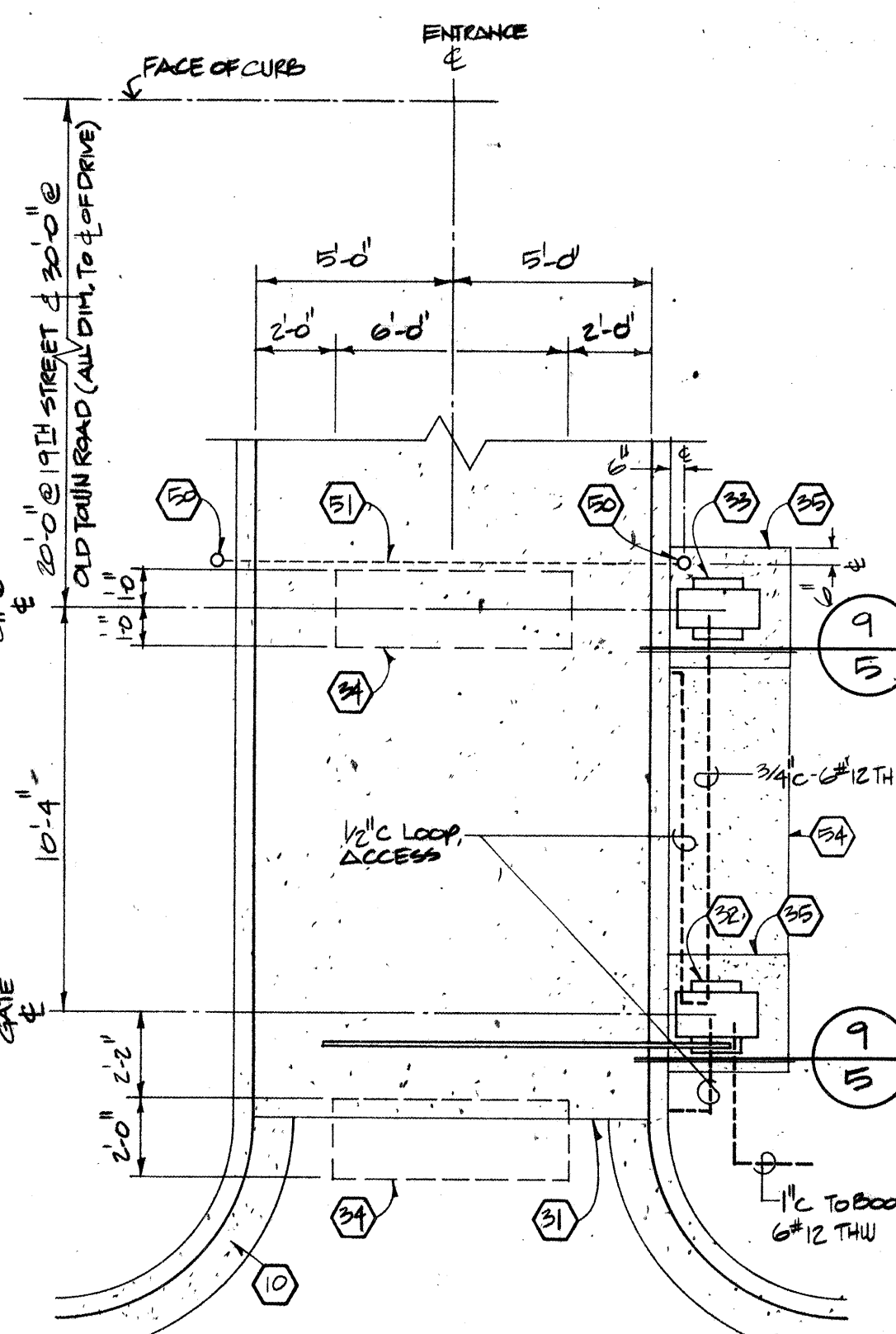
6 WALL ELEVATION
Scale: 1/4" = 1'-0"



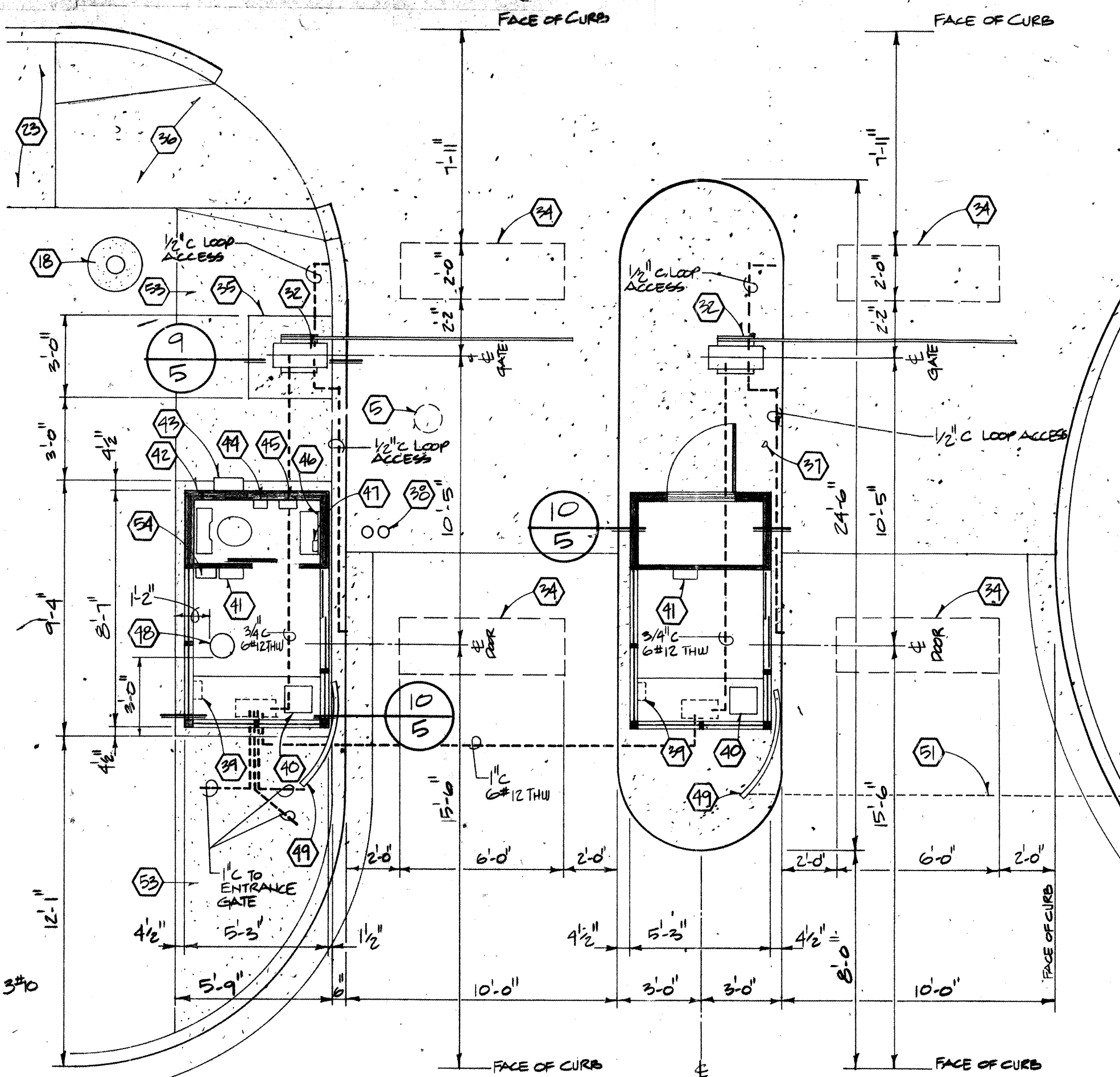
7 ENLARGED PLAN
Scale: 1/4" = 1'-0"



PARTIAL SITE PLAN
Scale: 1" = 20'-0"



8 ENLARGED PLAN (TYP.)
Scale: 1/4" = 1'-0"



9 ENLARGED PLAN
Scale: 1/4" = 1'-0"

- ENTRANCE**
- (R) 55 LF CURB & GUTTER
 - (R) 32 SF SIDEWALK & DRIVEPAD
 - (R) 12 SF ASPHALT PAVEMENT
 - (C) 12 SF ASPHALT PAVEMENT
 - (C) 40 SF VALLEY GUTTER W/ WHEELCHAIR RAMP & DRIVEPAD (R₁₀=20, R₅₀=10')
 - (C) 200 SF 6" SIDEWALK W/ WHEELCHAIR RAMP
- EXIT**
- (R) 52 LF CURB & GUTTER
 - (R) 21 SF SIDEWALK
 - (R) 12 SF ASPHALT PAVEMENT
 - (C) 12 SF ASPHALT PAVEMENT
 - (C) 50 SF VALLEY GUTTER W/ WHEELCHAIR RAMP & DRIVEPAD (R₁₀=10, R₅₀=10')
 - (C) 145 SF 6" SIDEWALK W/ WHEELCHAIR RAMP
 - (C) 15 SF 2.5" SIDEWALK (EXPOSED AGGREGATE)

GENERAL NOTES

1. All Dimensions are to face of curb.

KEYED NOTES

- Existing curb and gutter
- Existing 3.5 foot sidewalk
- Existing drop inlet
- Existing fire hydrant
- Existing water meter
- Existing 6.0 foot sidewalk
- Existing asphalt paving
- Light pole, 20 ft. tall
- Handicap sign - locate at each handicap parking stall
- Standard median curb and gutter
- 4 inch wide stripe
- Planting area
- Concrete planter - see Section 4/5
- 20 gauge galvanized metal sign with white markings over blue. Secure to post
- 4 inch diameter metal post - close top
- Finish grade
- 12 inch diameter concrete base
- Light pole with 24 inch diameter concrete pedestal
- 8 foot concrete walk - see Site Plan for continuation
- Standard curb and gutter
- Flow line of valley gutter
- Valley gutter
- 6 foot concrete sidewalk
- Location of handicap ramp with 20 foot radius
- Exposed aggregate concrete walk
- Expansion joint
- Control joint
- Stucco on CMU Banco
- Stucco on CMU wall
- Line of footing
- Limit of valley gutter apron - see Site Plan for exact location
- Parking gate - install as per manufacturer's recommendations
- Ticket printer and dispenser - install as per manufacturer's recommendations
- Detector loop - install as per manufacturer's recommendations
- Concrete equipment base - see Section 9/5
- Handicap ramp - see Section 4/3
- Door Stop
- Sewer cleanout
- Load center - see Electrical Equipment Schedule
- Electronic cash register
- Monitor unit - see Electrical
- Preassembled building - install as per manufacturer's recommendations. Field verify plumbing requirements and exact location of stub-ins with manufacturer.
- Electric meter - see Electrical Equipment Schedule
- Toilet paper dispenser
- Paper towel dispenser
- 20" x 20" mirror
- Liquid soap dispenser
- Floor safe to be a Century Fire Safe Model No. C5 Star
- Guardrail - see Detail
- 4-inch diameter steel post, concrete filled - see Detail
- Removable chain with 18" x 6" sign - see Detail 4/6
- 2668 door - see specifications
- 4-inch concrete slab
- Irrigation control unit

LEGEND

- Property Line
- Centerline
- Existing Utility Line
- Existing Curb and Gutter
- Proposed Curb and Gutter
- Proposed Blockwall
- Proposed Concrete Sidewalk (Broom Finish)
- Proposed Concrete Sidewalk (Exposed Aggregate)
- Proposed Brick Pavers
- Handicap Parking Stall
- Paint Standard Handicap Symbol

CITY OF ALBUQUERQUE
PARKING DIVISION

19TH STREET PARKING FACILITY

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. Design			Traffic		
A.C.E.-Hydrology			Water		

DRAWING NO. 2821 MAP NO. J-13 SHEET 3 OF 12

WILSON & COMPANY
ENGINEERS & ARCHITECTS
ALBUQUERQUE, NEW MEXICO

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	STATION	DATE	NO.	DATE	NO.	DATE
WILSON & COMPANY		STA. 5+13.8					
STATIONED BY	DATE	BRASS TIE-LET LOCATED AT THE	DATE				
FIELD	DATE	NORTHWEST CORNER OF 19TH ST. & MOUNTAIN RD.	DATE				
ADJUSTED BY	DATE	ELEV. 4751.87	DATE				
CHECKED BY	DATE		DATE				
RECORDED BY	DATE		DATE				



REVISIONS	BY	DATE
DESIGN	HLV	DATE 20 MAR 1986
DESIGN	FLH	DATE 21 APR 1986
DESIGN	HLV	DATE 23 APR 1986