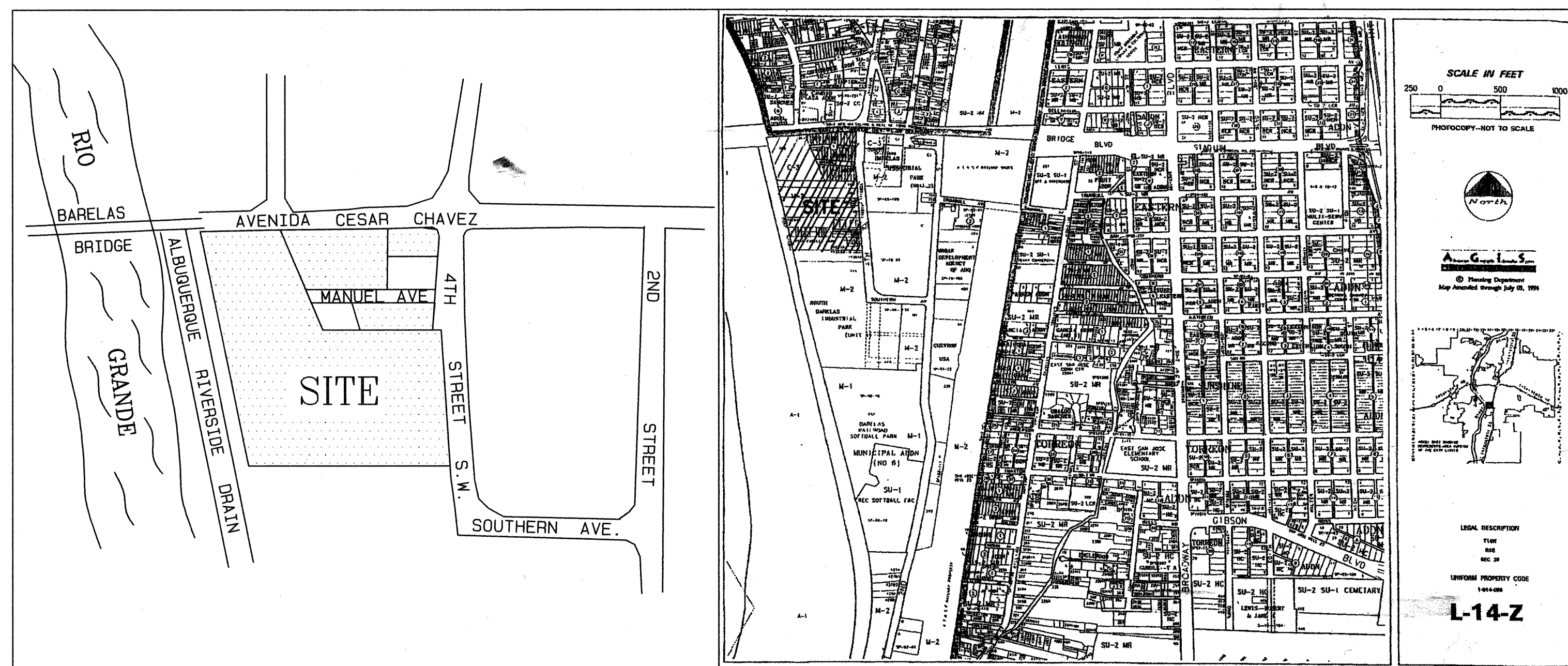


CONSTRUCTION PLANS FOR THE NATIONAL HISPANIC CULTURAL CENTER INFRASTRUCTURE IMPROVEMENTS

INDEX OF SHEETS

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2-3	SURVEY PLAT
4	INFRASTRUCTURE/UTILITIES IMPROVEMENTS
5	INFRASTRUCTURE/ROADWAY IMPROVEMENTS
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24	TRAFFIC SIGNAL- FOUNDATION DETAILS- TYPE II & TYPE III STANDARDS
25	TRAFFIC SIGNAL- CONTROLLER- CABINET & PEDESTAL FOUNDATION DETAILS
26	TRAFFIC SIGNAL- CONTROL- CABINET REPLACEMENT DETAILS
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31	TRAFFIC SIGNAL- ELECTRICAL SERVICE DETAILS
32	TRAFFIC SIGNAL- METER PEDESTAL DETAILS FOR SIGNAL
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GENERAL NOTES:

- CITY OF ALBUQUERQUE SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS AMENDED THROUGH UPDATE 6, WILL BE REFERRED TO HEREIN AS THE "STANDARD SPECIFICATIONS".
- WATER SHUTOFF REQUIREMENTS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR TIMING AND COORDINATION OF WATER SHUTOFF. AT LEAST FIVE (5) WORKING DAYS PRIOR TO CONSTRUCTION, CONTRACTOR SHALL CONTACT THE WATER SYSTEMS DIVISION, 857-8200, TO INITIATE IMPLEMENTATION OF THE NON-PRESSURIZED CONNECTION PLAN.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT THE PUBLIC UTILITY COMPANIES SERVING THIS SITE SO THAT THE EXISTING FACILITIES CAN BE LOCATED BY THOSE ENTITIES.
- SHOULD A CONFLICT EXIST BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY FOR ALL PARTIES.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL BUILDINGS AND ADJACENT PROPERTIES DURING CONSTRUCTION.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING SAFETY AND HEALTH.
- IF THE REMOVAL OF EXISTING CURB AND GUTTER, SIDEWALK AND/OR PAVING IS REQUIRED, THE CONTRACTOR SHALL SAWCUT AND/OR REMOVE TO THE NEAREST JOINT. WHEN ABUTTING NEW PAVEMENT TO EXISTING, THE CONTRACTOR SHALL CUT BACK THE EXISTING PAVING TO A STRAIGHT LINE IN ORDER TO REMOVE ANY BROKEN OR CRACKED PAVEMENT. EXISTING CURB AND GUTTER, SIDEWALK, PAVEMENT, PAVEMENT MARKING, AND ANY OTHER CITY FACILITY NOT TO BE REMOVED UNDER THIS CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND PER CITY STANDARDS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFELY OBTAINING THE REQUIRED COMPACTION. THE CONTRACTOR SHALL SELECT AND USE METHODS WHICH SHALL NOT BE INJURIOUS OR DAMAGING TO THE EXISTING FACILITIES AND STRUCTURES WHICH SURROUND THE WORK AREAS.
- THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGEMENT DIVISION OF THE PROPOSED COMMENCEMENT OF CONSTRUCTION AND PROPOSED WORK SCHEDULE FOR WORK WITHIN THE CITY R.O.W. AT LEAST 24 HOURS PRIOR TO THE ACTUAL COMMENCEMENT OF CONSTRUCTION. A COPY OF THE APPROVED PLANS SHALL BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES DURING WORKING HOURS.
- THE OWNER SHALL BE RESPONSIBLE, THROUGH HIS ENGINEER, FOR MAKING ALL ENGINEERING PLAN CHANGES AND REVISIONS TO THE ORIGINAL APPROVED ENGINEERING DRAWINGS. ALL CHANGES SHALL BE APPROVED BY THE CITY PRIOR TO CONSTRUCTION. FINAL "RECORD DRAWINGS" SHALL BE FILED IN THE OFFICE OF CITY MAPS AND RECORDS.
- THE CONTRACTOR SHALL PROVIDE AN AREA TO STORE CONSTRUCTION DEBRIS WHERE IT WILL NOT BE A NUISANCE TO THE SURROUNDING NEIGHBORHOOD. ALL DEBRIS SHALL BE CONTAINED IN SUCH A MANNER THAT WILL PREVENT SCATTERING. ALL DEBRIS INCLUDING TREES AND UNDERGROWTH SHALL BE DISPOSED OF PROPERLY WITHIN THE CITY LANDFILL. ALL DEBRIS SHALL BE REMOVED FROM THE SITE PRIOR TO FINAL SITE INSPECTION.
- THE CONTRACTOR SHALL CONFINE HIS OPERATIONS TO THE CONSTRUCTION LIMITS OF THE PROJECT AND IN NO WAY SHALL ENCROACHMENT OCCUR ONTO ADJACENT PROPERTIES UNLESS LEGAL EASEMENTS ARE OBTAINED. ALL FILL AND CUT SLOPES SHALL BE SETBACK FROM THE PROPERTY LINE IN ACCORDANCE WITH CHAPTER 70 U.B.C. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY AGREEMENT NECESSARY OR DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES TO PUBLIC OR PRIVATE PROPERTY INCLUDING UTILITIES.
- FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. SEE SECTION 29 OF THE SPECIFICATIONS.
- ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH REFLECTORIZED PAVEMENT MARKINGS BY CONTRACTOR WITH REGARD TO LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET.
- ANY WORK AFFECTING AN ARTERIAL ROADWAY REQUIRES 24 HOUR CONSTRUCTION.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED :

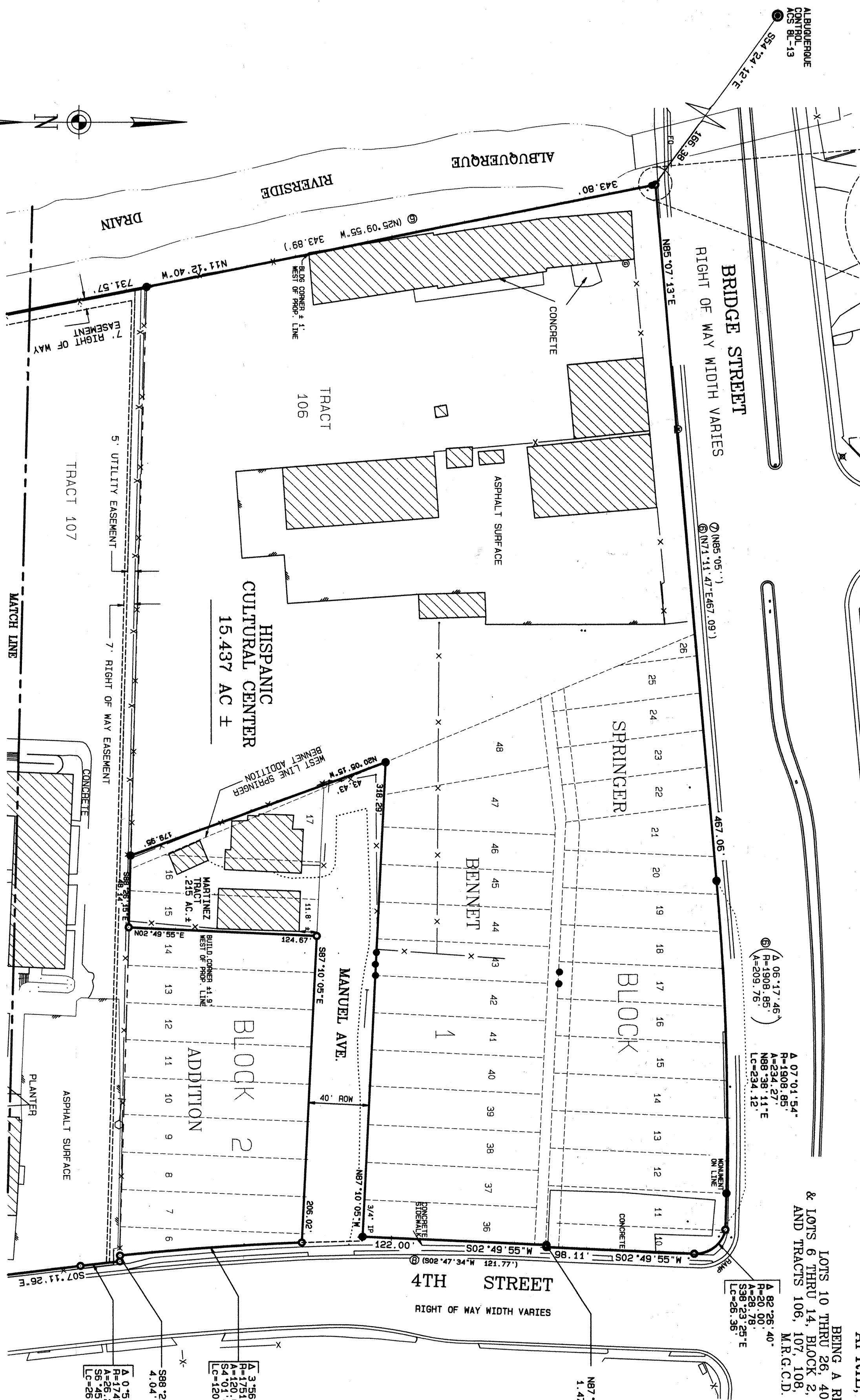
- ☒ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- ☒ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- ☒ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
- ☒ SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- ☒ IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- ☒ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- ☒ THE REQUESTER OR DEVELOPER SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ALL CURB AND GUTTER OR SIDEWALK DAMAGED AFTER APPROVAL BY THE CITY ENGINEER OF WORK COMPLETED BY THE CONTRACTOR.

FOR INFORMATION ONLY

 1216 Parkway Drive P.O. Box 16115 Santa Fe, NM 87506-6115 Phone: (505) 473-7373 4600-C Montgomery Blvd. NE Suite 101 Albuquerque, NM 87109 Phone: (505) 889-3004		<table><tr><td>REV.</td><td>SHEETS</td><td>CITY ENGINEER</td><td>DATE</td><td>USER DEPARTMENT</td><td>DATE</td><td>USER DEPARTMENT</td><td>DATE</td></tr><tr><td colspan="2">ENGINEERS STAMP & SIGNATURE</td><td colspan="2">APPROVALS</td><td colspan="2">DATE</td><td colspan="2">*****</td></tr><tr><td colspan="2" rowspan="5"></td><td colspan="2">DRC Chairman</td><td colspan="2">3-5-00</td><td colspan="2" rowspan="5">APPROVED FOR CONSTRUCTION</td></tr><tr><td colspan="2">Transportation</td><td colspan="2">3-8-00</td></tr><tr><td colspan="2">Water/Wastewater</td><td colspan="2">3-8-00</td></tr><tr><td colspan="2">Hydrology</td><td colspan="2">3-8-00</td></tr><tr><td colspan="2">C.I.P.</td><td colspan="2">3-8-00</td></tr><tr><td colspan="2">Constr. Mngmt.</td><td colspan="2">3-9-00</td><td colspan="2">City Engineer</td><td>Date</td></tr><tr><td colspan="2">Constr. Coord.</td><td colspan="2">3-9-00</td><td colspan="2"></td><td colspan="2"></td></tr><tr><td colspan="2">City Project No.</td><td colspan="2">623581</td><td colspan="2">Sheet</td><td colspan="2">1 of 36</td></tr></table>		REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE	ENGINEERS STAMP & SIGNATURE		APPROVALS		DATE		*****				DRC Chairman		3-5-00		APPROVED FOR CONSTRUCTION		Transportation		3-8-00		Water/Wastewater		3-8-00		Hydrology		3-8-00		C.I.P.		3-8-00		Constr. Mngmt.		3-9-00		City Engineer		Date	Constr. Coord.		3-9-00						City Project No.		623581		Sheet		1 of 36	
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City Project No.		623581		Sheet		1 of 36																																																												

PLAT OF
TRACT 1
NEW MEXICO
HISPANIC CULTURAL CENTER
ALBUQUERQUE, NEW MEXICO
APRIL, 1999

BRING A REPEAT OF
LOTS 10 THRU 26, 40 THRU 48, BLOCK 1
& LOTS 6 THRU 14, BLOCK 2, SPRINGER-BENNET ADDITION
AND TRACTS 106, 107, 108, 109, 110, 111, 112 & 113
M.R.G.C.D. MAP 41



FOR INFORMATION ONLY

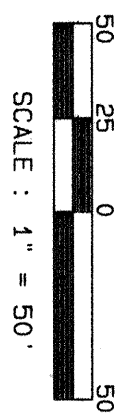
SHT 2 OF 3

Red
Mountain
Engineers, Inc.

1818 Parkway Drive
Albuquerque, NM 87102
Phone (505) 473-7973

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PROJECT NO. 98-27

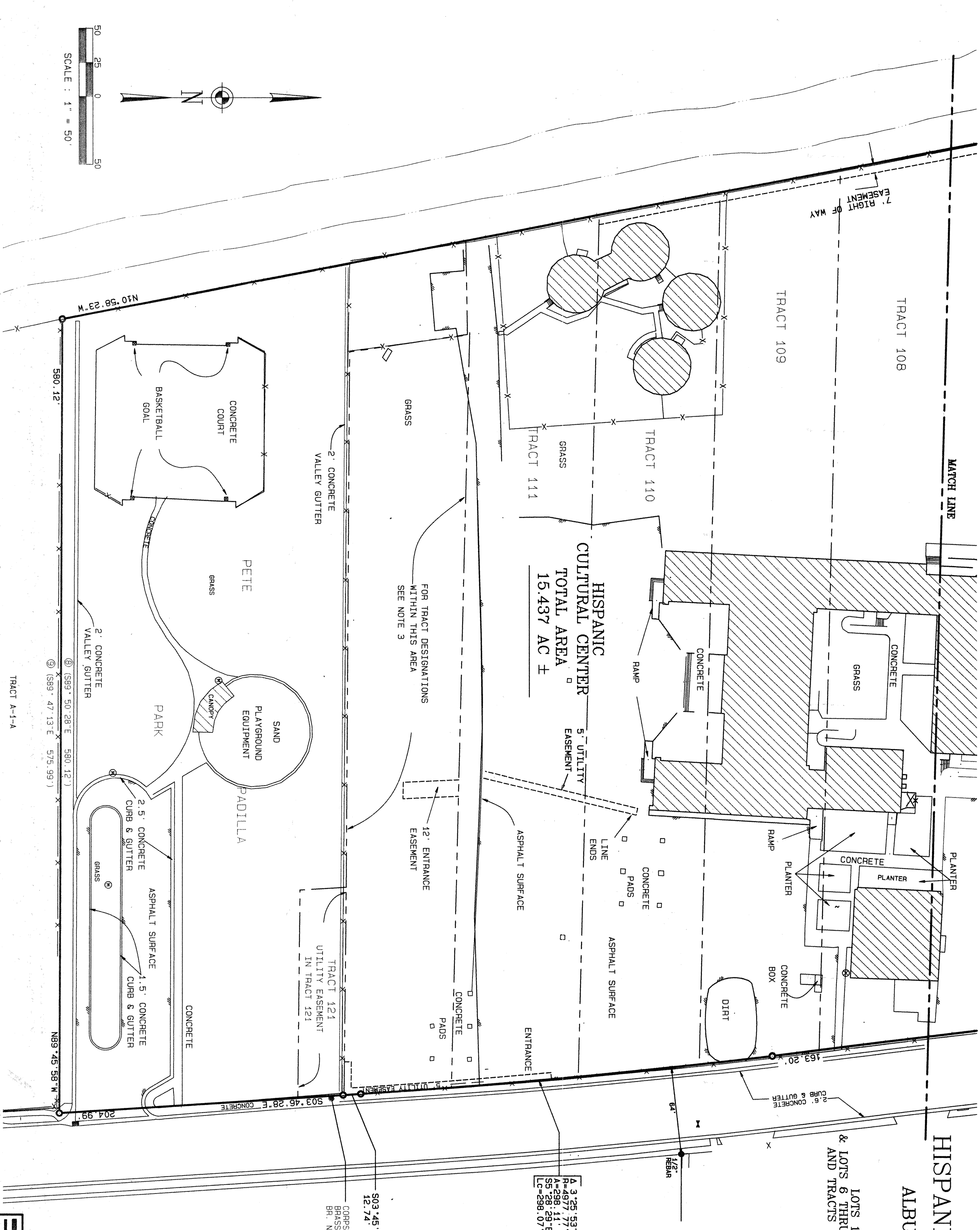
- LEGEND
- DENOTES SET POINT (1/2" REBAR W ALUM CAP)
 - DENOTES FOUND POINT (1/2" REBAR W/CAP STAMPED 18931 UNLESS OTHERWISE NOTED)
 - ▨ DENOTES EDGE OF ASPHALT
 - ▨ DENOTES EXISTING BUILDING
 - ▨ DENOTES DIRT ROAD



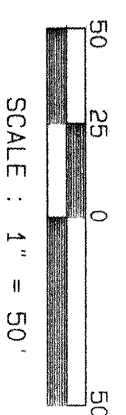
FOR CONTINUATION SEE SHEET 2

PLAT OF
TRACT 1
NEW MEXICO
HISPANIC CULTURAL CENTER
ALBUQUERQUE, NEW MEXICO
APRIL, 1999

BRING A REPEAT OF
LOTS 10 THRU 26, 40 THRU 48, BLOCK 1
& LOTS 6 THRU 14, BLOCK 2, SPRINGER-BENNET ADDITION
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M.R.G.C.D. MAP 41



- LEGEND
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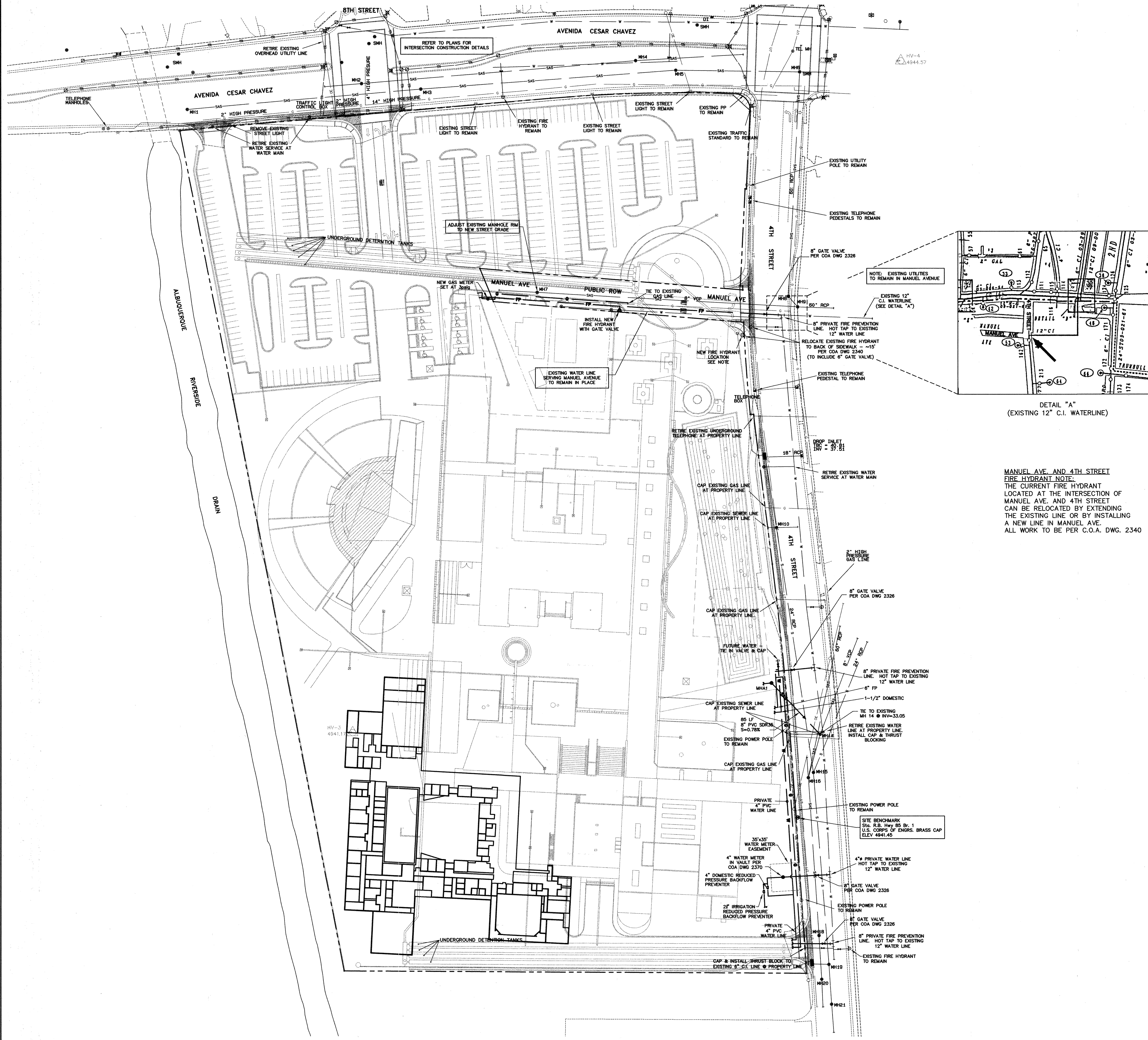


SCANNED BY
MESA REPRO

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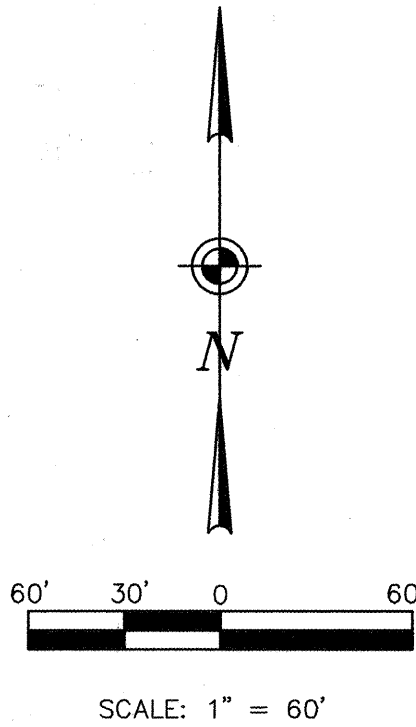
ELEVATION DATUM NOTE:

ELEVATION DATUM IS BASED ON NGVD 1929 FROM ACS R.B. HWY. 85 BR. 1 ON 4TH STREET WITH AN ELEVATION OF 4941.45 AND IS THE PROJECT BENCHMARK.

LEGEND:

- PROPOSED EASEMENT
- PROJECT BOUNDARY LINE
- DENOTES EXISTING BENCHMARK
- P----- EXISTING ELECTRICAL LINE
- G----- EXISTING GAS LINE
- SAS----- EXISTING SANITARY SEWER LINE
- SD----- EXISTING STORM DRAIN LINE
- UT----- EXISTING BURIED TELEPHONE CONDUIT
- W----- EXISTING WATER LINE
- TR----- EXISTING TRAFFIC CONDUIT
- DENOTES EXISTING UTILITY POLE w/ANCHOR GUY
- DENOTES EXISTING OVERHEAD ELECTRIC
- DENOTES EXISTING MANHOLE
- DENOTES EXISTING TELEPHONE PEDESTAL
- DENOTES EXISTING WATER METER
- DENOTES EXISTING LIGHT POLE
- DENOTES EXISTING WATER VALVE
- DENOTES EXISTING TRAFFIC LIGHT
- DENOTES EXISTING FIRE HYDRANT
- DENOTES EXISTING DROP INLET
- W----- PROPOSED PVC DOMESTIC WATER LINE
- FP----- PROPOSED FIRE PROTECTION WATER LINE
- G----- PROPOSED GAS LINE
- SAS----- PROPOSED SANITARY SEWER LINE
- T----- TYPICAL UTILITY STUB OUT
- DENOTES FLOW DIRECTION OF SAS LINE
- DENOTES PROPOSED SANITARY SEWER MANHOLE
- DENOTES PROPOSED WATER VALVE
- DENOTES PROPOSED CLEANOUT
- DENOTES PROPOSED WATER METER
- DENOTES PROPOSED GAS METER
- DENOTES PROPOSED FIRE HYDRANT

**MANUEL AVE. AND 4TH STREET
FIRE HYDRANT NOTE:**
THE CURRENT FIRE HYDRANT
LOCATED AT THE INTERSECTION OF
MANUEL AVE. AND 4TH STREET
CAN BE RELOCATED BY EXTENDING
THE EXISTING LINE OR BY INSTALLING
A NEW LINE IN MANUEL AVE.
ALL WORK TO BE PER C.O.A. DWG. 2340



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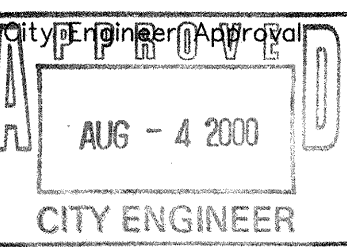


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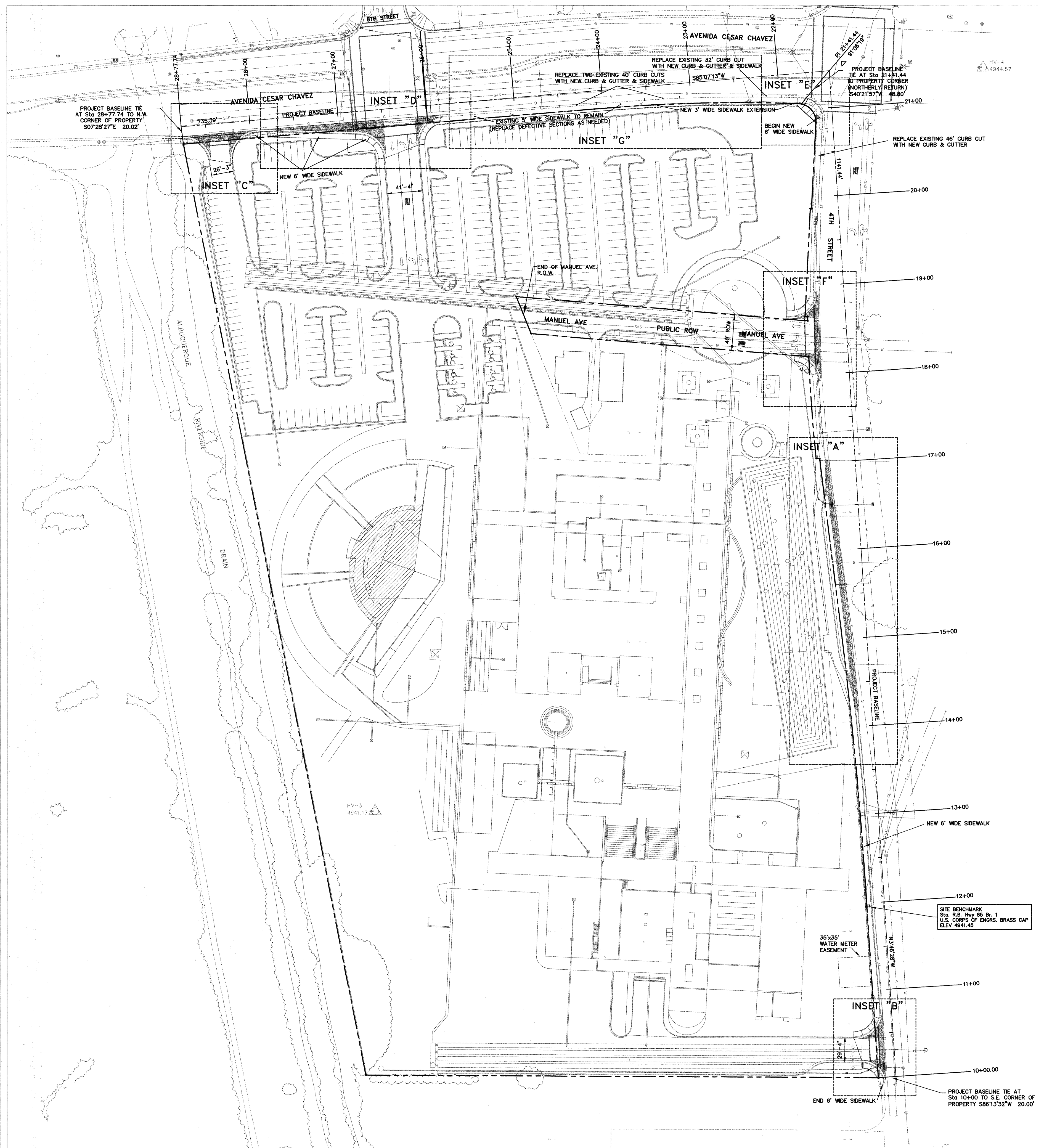
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: NATIONAL HISPANIC CULTURAL CENTER
OVERALL INFRASTRUCTURE/UTILITIES IMPROVEMENTS



Last Design Update

City Project No. 623581 Zone Map No. L-14-Z Sheet 4 Of 36



SIDEWALK CONSTRUCTION NOTE:

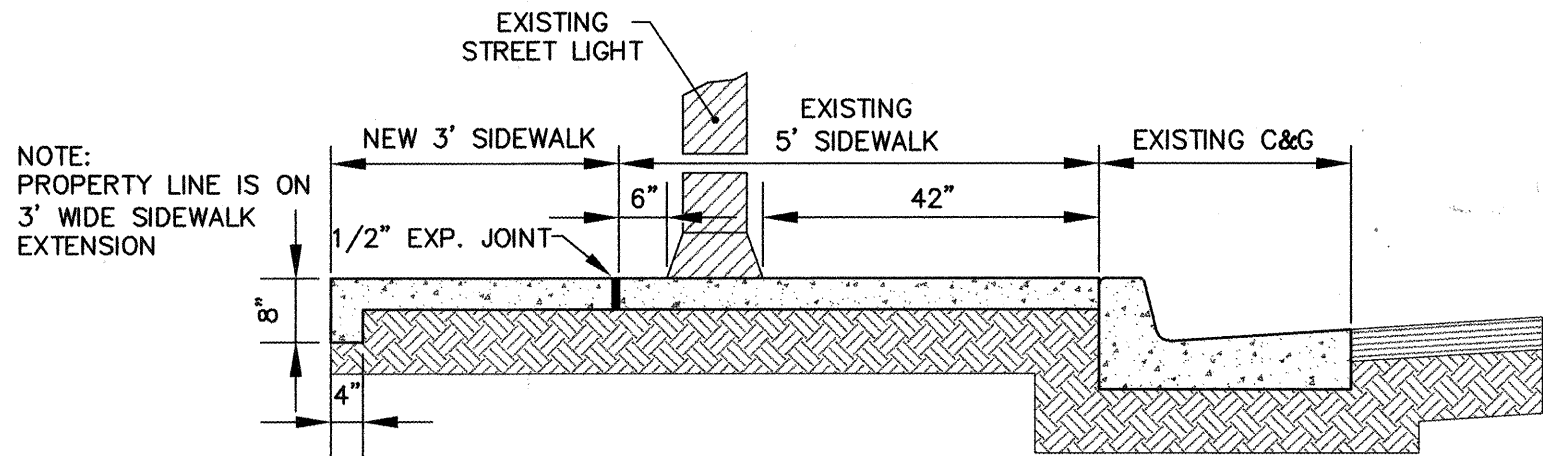
ALL SIDEWALKS TO CONFORM TO COA DWGS 2720 AND 2430.

ELEVATION DATUM NOTE:

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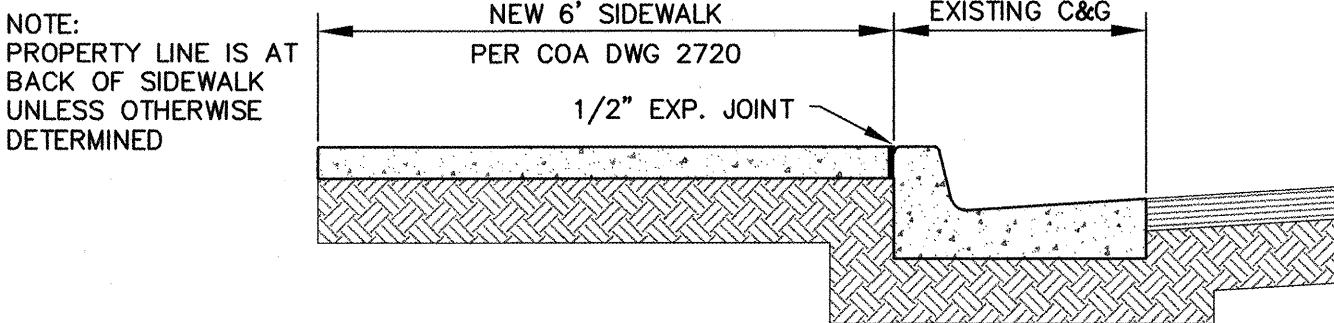
LEGEND:

- PROPOSED EASEMENT
- PROJECT BOUNDARY LINE
- ⊕ DENOTES EXISTING BENCHMARK
- P — EXISTING ELECTRICAL LINE
- G — EXISTING GAS LINE
- SAS — EXISTING SANITARY SEWER LINE
- S — EXISTING STORM DRAIN LINE
- UT — EXISTING BURIED TELEPHONE CONDUIT
- W — EXISTING WATER LINE
- TR — EXISTING TRAFFIC CONDUIT
- OE — DENOTES EXISTING UTILITY POLE W/ANCHOR GUY
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- ⊙ DENOTES PROPOSED WATER METER
- ⊙ DENOTES PROPOSED GAS METER
- ⊙ DENOTES PROPOSED FIRE HYDRANT



STANDARD CURB & GUTTER / PAVING SIDEWALK DETAILS
(SHOWN W/ EXISTING STREET LIGHT)
(COA DWG. 2415 / COA DWG. 2430)

AVENIDA CESAR CHAVEZ
Sta 21+75.61 — Sta 25+81.47



STANDARD CURB & GUTTER / PAVING SIDEWALK DETAILS
(COA DWG. 2415 / COA DWG. 2430)

4TH STREET

Sta 9+93.36 — Sta 10+17.85
Sta 10+47.70 — Sta 14+19.19
Sta 17+02.77 — Sta 18+22.28
Sta 18+67.73 — Sta 20+87.44

AVENIDA CESAR CHAVEZ

Sta 25+81.47 — Sta 26+10.90
Sta 26+52.21 — Sta 28+10.72
Sta 28+61.25 — Sta 28+77.76

NOTE:

STANDARD PAVING BUS BAY
(COA DWG. 2466)

4TH STREET

Sta 14+19.19 — Sta 17+02.77

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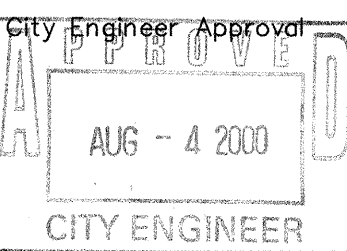


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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: NATIONAL HISPANIC CULTURAL CENTER
INFRASTRUCTURE/ROADWAY IMPROVEMENTS - INSETS & DETAILS



Last Design Update

City Project No.

623581

Zone Map No.
L-14-Z

Sheet

Of

5

36

AS BUILT INFORMATION

CONTRACTOR

WORK STAKED BY

INSPECTOR'S ACCEPTANCE BY

DATE

DATE

DATE

DATE

DATE

BENCH MARKS

Sta. R.B. Hwy 85 Br. 1

SURVEY INFORMATION

FIELD NOTES

No.

By

Date

ENGINEER'S SEAL

By

Date

Remarks

Revisions

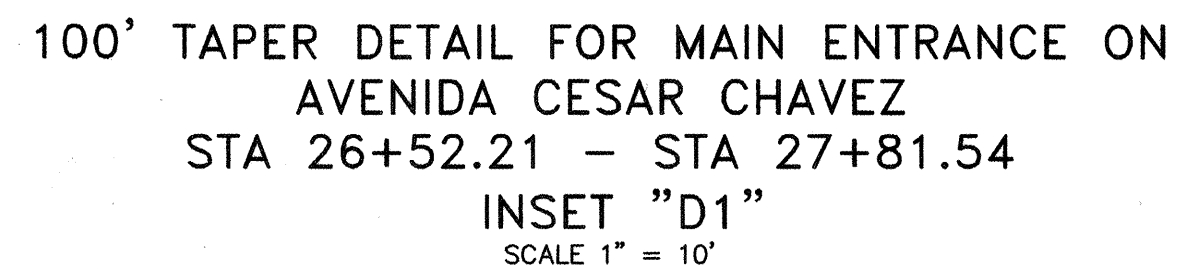
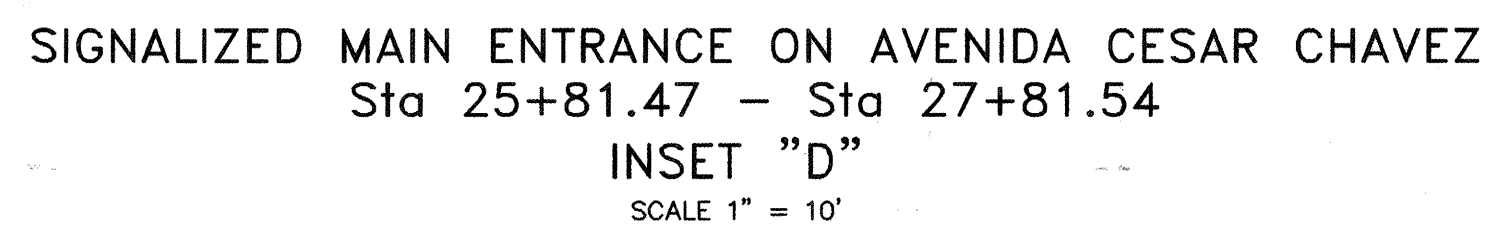
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Date

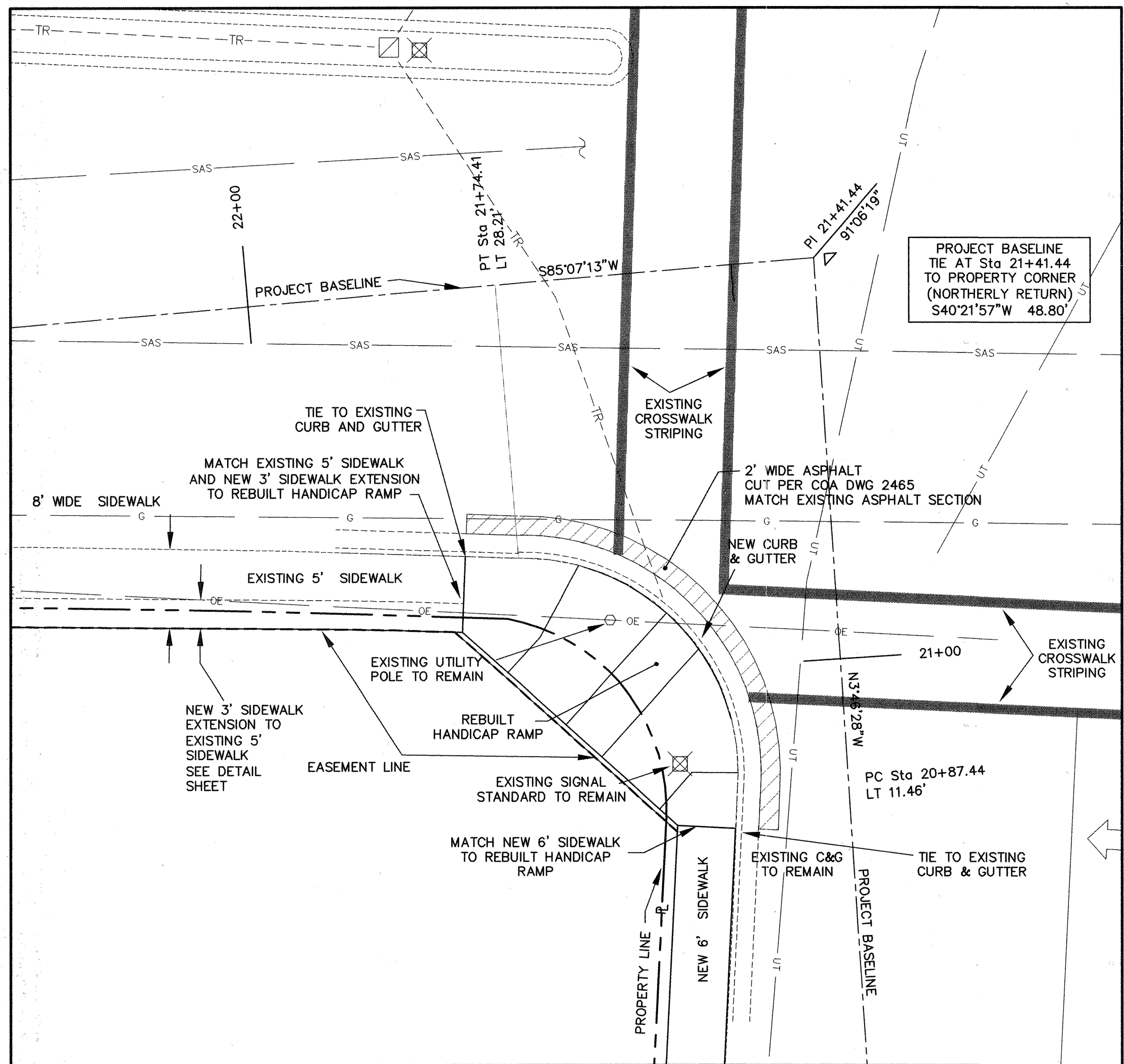
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02/29/00

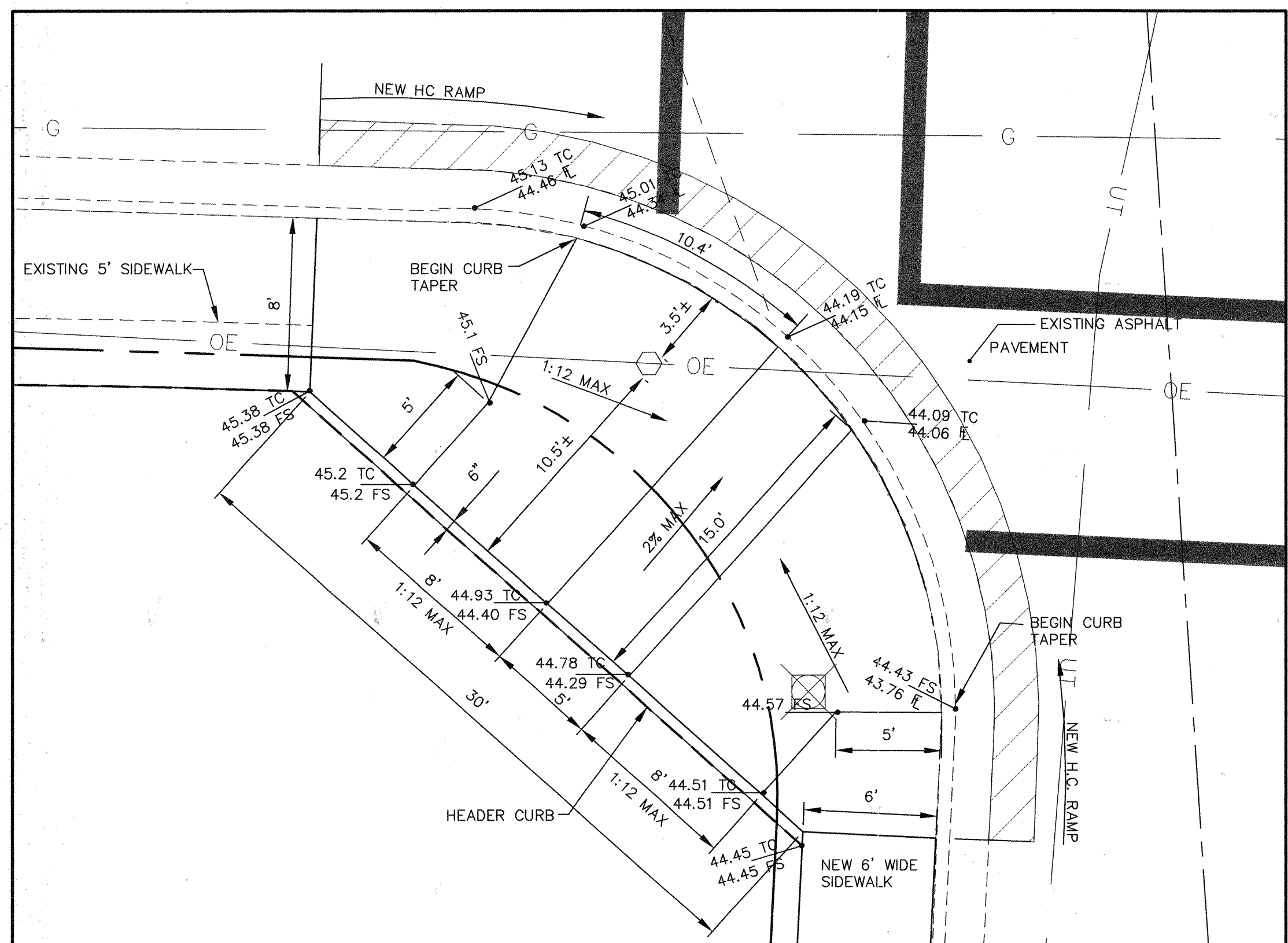
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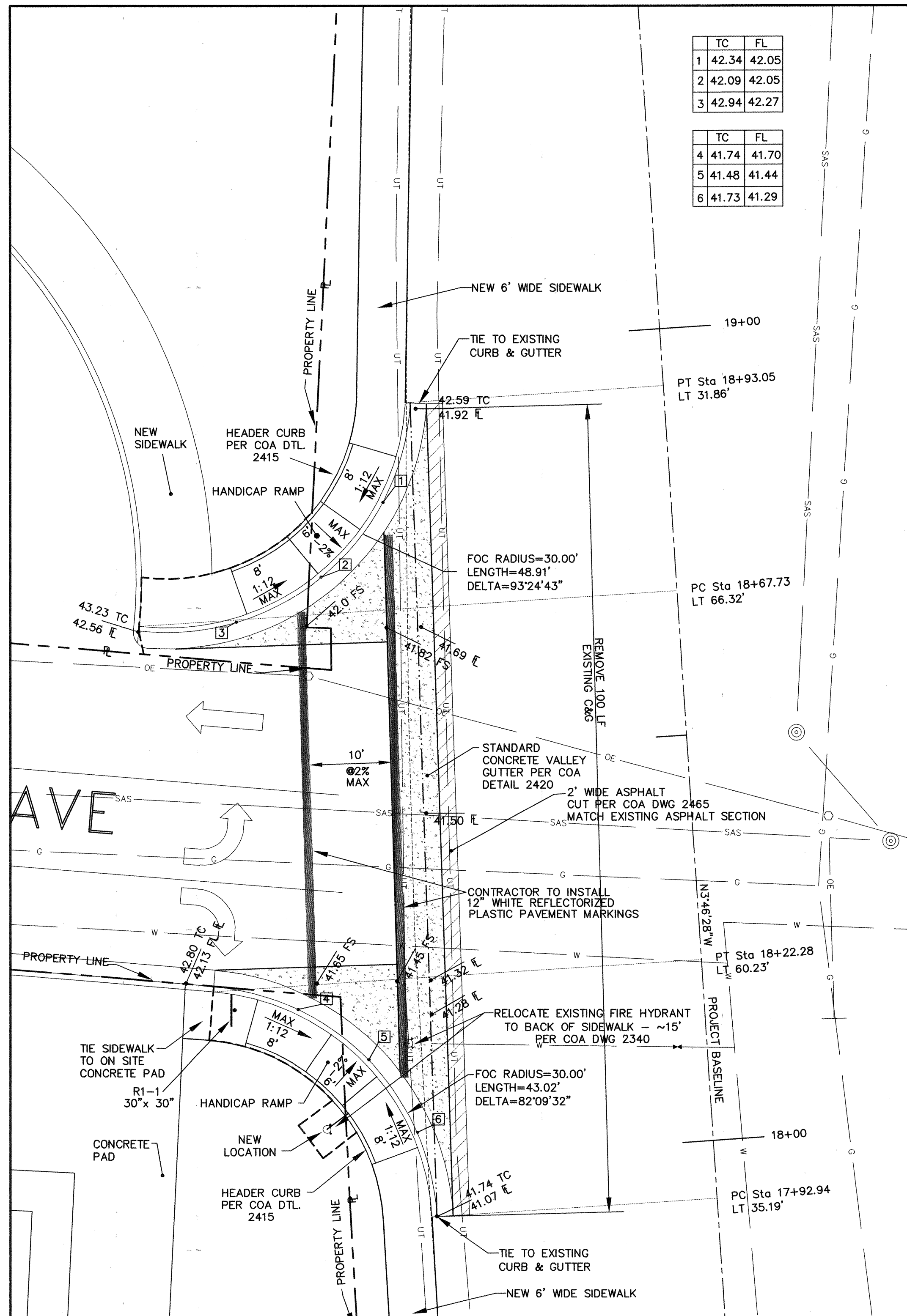
Sheet	Of
6	36



NEW HANDICAP RAMP AT
INTERSECTION OF AVENIDA CESAR CHAVEZ
& 4th STREET
STA 20+87.44 - STA 21+74.41
INSET "E"
SCALE 1" = 10'



ENLARGEMENT OF
INTERSECTION OF AVENIDA CESAR CHAVEZ
& 4th STREET
STA 20+87.44 - STA 21+74.41
INSET "E"
SCALE 1" = 5'



MAIN ENTRANCE ON 4th STREET
(MANUEL AVENUE)
STA 17+92.94 - STA 18+93.05
INSET "F"
SCALE 1" = 10'

SIDEWALK CONSTRUCTION NOTE:

ALL SIDEWALKS TO CONFORM TO COA DWGS 2720 AND 2430.

ELEVATION DATUM NOTE:

ELEVATION DATUM IS BASED ON NGVD 1929 FROM ACS R.B. HWY. 85 BR. 1 ON 4TH STREET WITH AN ELEVATION OF 4941.45 AND IS THE PROJECT BENCHMARK.

PAVEMENT CUT NOTE:

ALL PAVEMENT CUTS SHALL ADHERE TO COA DWG 2465.

LEGEND:

ELEV. FINISHED GRADE SPOT ELEVATION
DESC. SPOT DESCRIPTION

ABBREVIATIONS

FS FINISHED SURFACE
TC TOP OF CURB
FOC FACE OF CURB
COA CITY OF ALBUQUERQUE
E FLOW LINE
TOC TOP OF GRADE
FG FINISHED GRADE
TSW TOP OF SIDEWALK
AC ASPHALTIC CONCRETE
ABC AGGREGATE BASE COARSE

----- EASEMENT LINE
----- PROJECT BOUNDARY LINE
===== PROPOSED HEADER CURB
===== PROPOSED CURB AND GUTTER
----- FLOW LINE
● DENOTES EXISTING BENCHMARK
P EXISTING ELECTRICAL LINE
G EXISTING GAS LINE
SAS EXISTING SANITARY SEWER LINE
S EXISTING STORM DRAIN LINE
UT EXISTING BURIED TELEPHONE CONDUIT
W EXISTING WATER LINE
TR EXISTING TRAFFIC CONDUIT
○ DENOTES EXISTING UTILITY POLE w/ANCHOR GUY
OE DENOTES EXISTING OVERHEAD ELECTRIC
● DENOTES EXISTING MANHOLE
● DENOTES EXISTING TELEPHONE PEDESTAL
● DENOTES EXISTING WATER METER
● DENOTES EXISTING LIGHT POLE
● DENOTES EXISTING WATER VALVE
● DENOTES EXISTING TRAFFIC LIGHT
● DENOTES EXISTING FIRE HYDRANT
● DENOTES EXISTING DROP INLET
TYPICAL UTILITY STUB OUT



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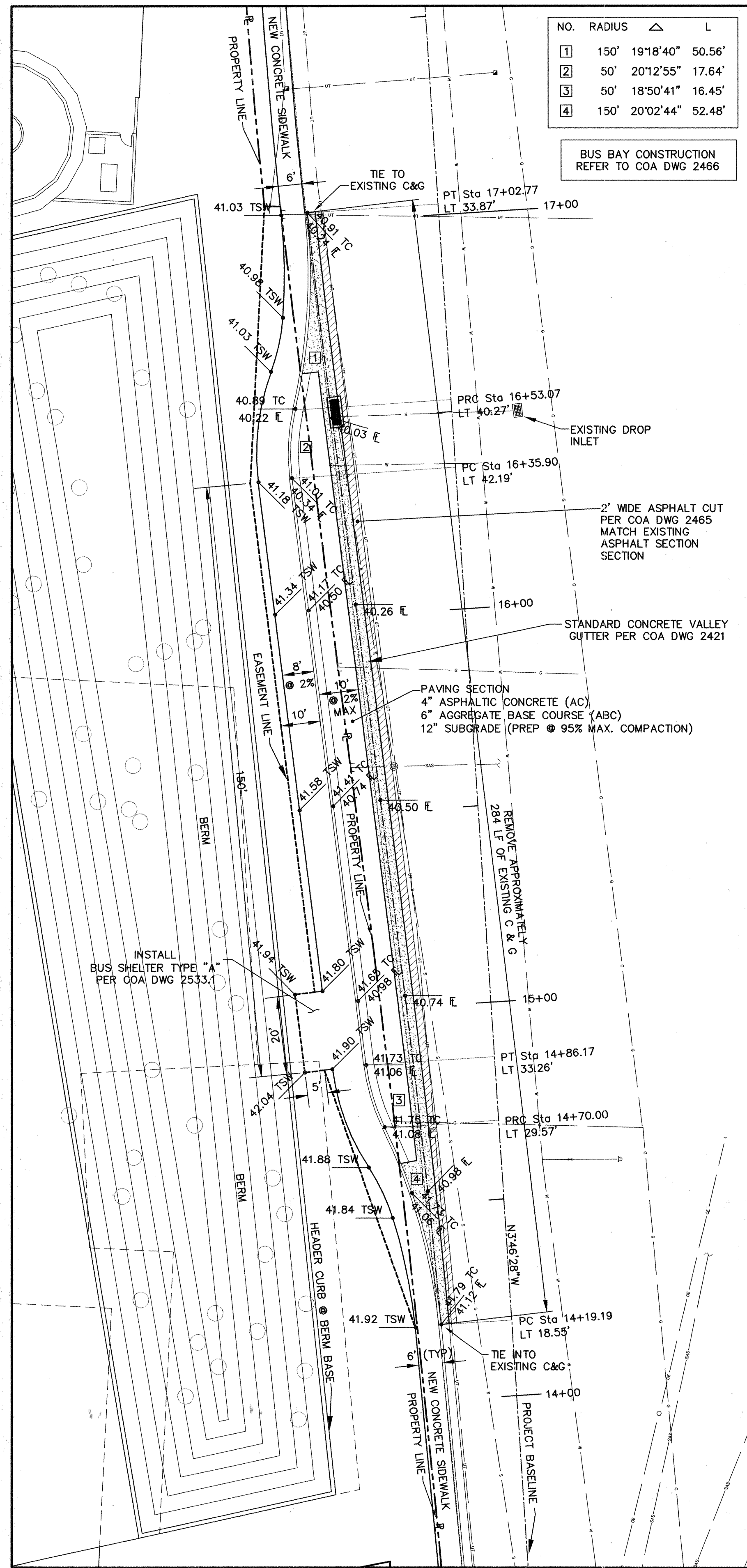
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

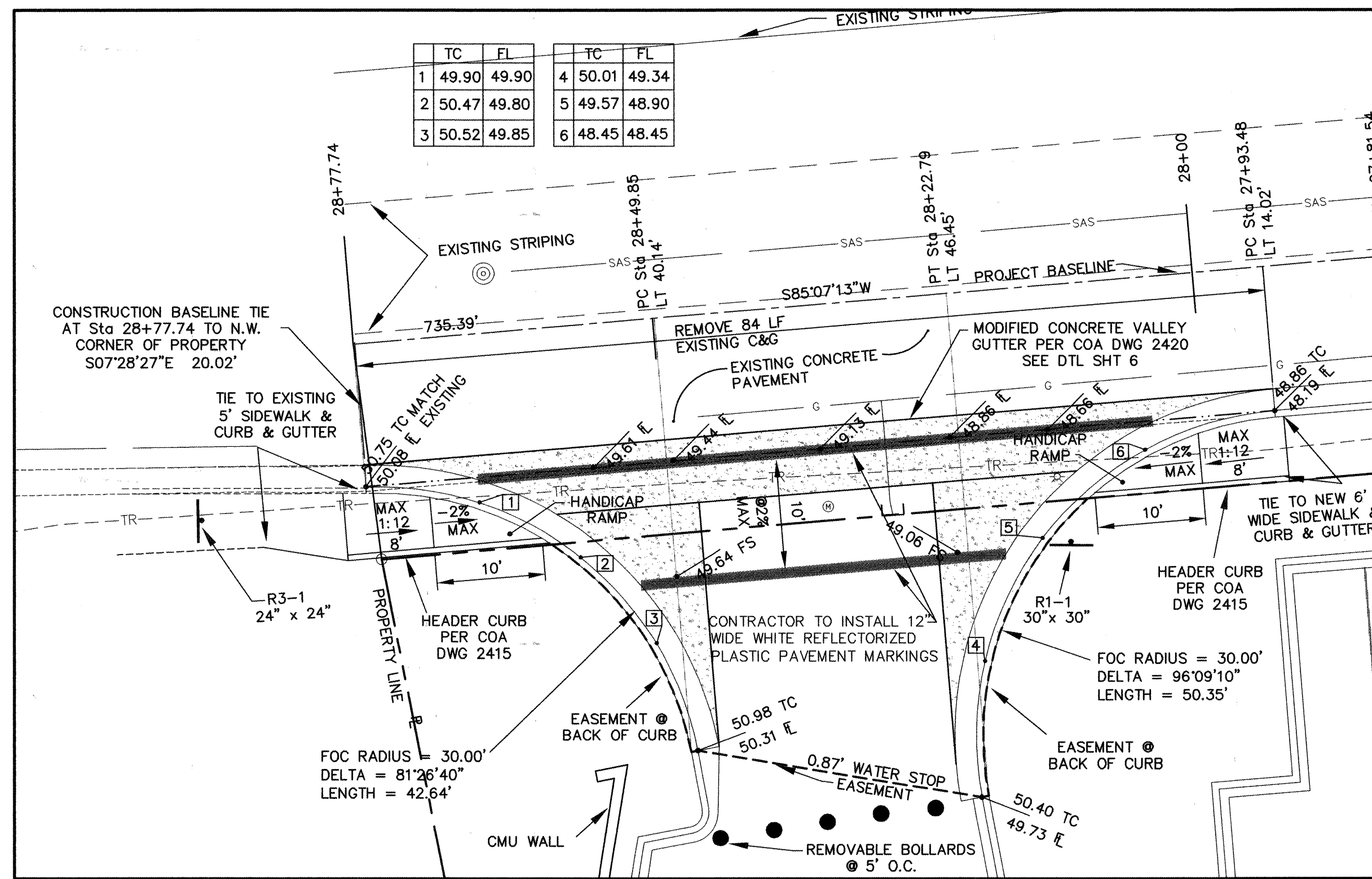
TITLE: NATIONAL HISPANIC CULTURAL CENTER
INFRASTRUCTURE/ROADWAY IMPROVEMENTS - INSETS & DETAILS

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
MAY - 9 2000	AUG - 4 2000		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

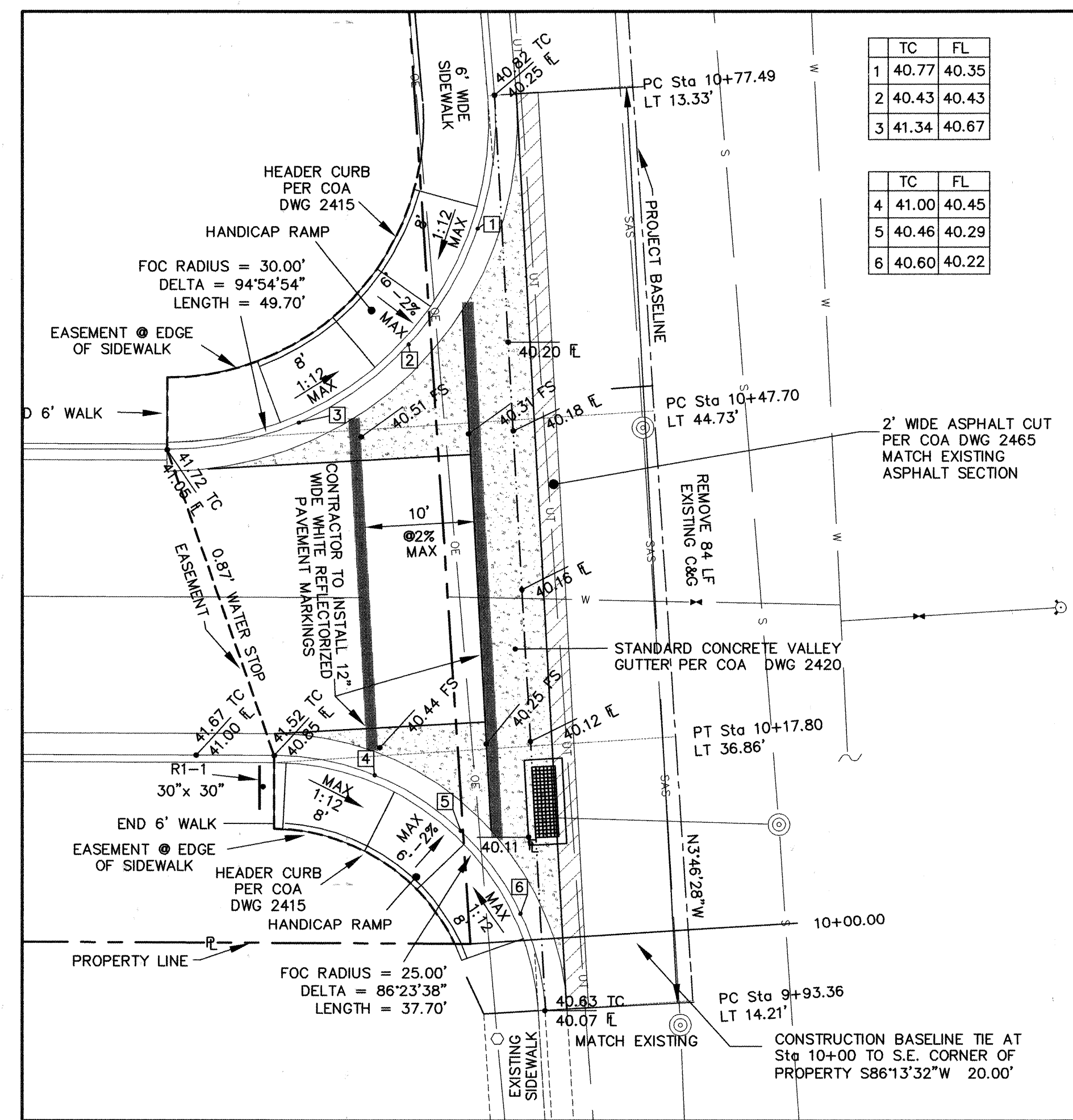
City Project No.	Zone Map No.	Sheet	Of
623581	L-14-Z	7	36



4th STREET BUS STOP W/ SHELTER
STA 14+19.19 - STA 17+02.77
INSET "A"
SCALE 1" = 20'



EMERGENCY VEHICLE ENTRANCE ON AVENIDA CESAR CHAVEZ
STA 27+93.48 - STA 28+77.74
INSET "C"
SCALE 1" = 10'



SOUTH ENTRANCE ON 4th STREET
STA 9+93.36 - STA 10+47.08
INSET "B"
SCALE 1" = 10'

SIDEWALK CONSTRUCTION NOTE:

ALL SIDEWALKS TO CONFORM TO COA DWGS 2720 AND 2430.

ELEVATION DATUM NOTE:

ELEVATION DATUM IS BASED ON NGVD 1929 FROM ACS R.B. HWY. 85 BR. 1 ON 4TH STREET WITH AN ELEVATION OF 4941.45 AND IS THE PROJECT BENCHMARK.

PAVEMENT CUT NOTE:

ALL PAVEMENT CUTS SHALL ADHERE TO COA DWG 2465.

LEGEND:

ELEV	DESC	FINISHED GRADE SPOT ELEVATION	SPOT DESCRIPTION
FS	FINISHED SURFACE		
TC	TOP OF CURB		
FOC	FACE OF CURB		
COA	CITY OF ALBUQUERQUE		
FL	FLOW LINE		
TOG	TOP OF GRATE		
FG	FINISHED GRADE		
TSW	TOP OF SIDEWALK		
AC	ASPHALTIC CONCRETE		
BTB	BITUMINOUS TREATED BASE		

---	EASEMENT LINE
---	PROJECT BOUNDARY LINE
---	PROPOSED HEADER CURB
---	PROPOSED CURB AND GUTTER
---	FLOW LINE
●	DENOTES EXISTING BENCHMARK
P	EXISTING ELECTRICAL LINE
G	EXISTING GAS LINE
SAS	EXISTING SANITARY SEWER LINE
S	EXISTING STORM DRAIN LINE
UT	EXISTING BURIED TELEPHONE CONDUIT
W	EXISTING WATER LINE
TR	EXISTING TRAFFIC CONDUIT
○	DENOTES EXISTING UTILITY POLE w/ANCHOR GUY
OE	DENOTES EXISTING OVERHEAD ELECTRIC
⊙	DENOTES EXISTING MANHOLE
⊙	DENOTES EXISTING TELEPHONE PEDESTAL
⊙	DENOTES EXISTING WATER METER
⊙	DENOTES EXISTING LIGHT POLE
⊙	DENOTES EXISTING WATER VALVE
⊙	DENOTES EXISTING TRAFFIC LIGHT
⊙	DENOTES EXISTING FIRE HYDRANT
⊙	DENOTES EXISTING DROP INLET
⊙	DENOTES PROPOSED DOUBLE D DROP INLET
---	TYPICAL UTILITY STUB OUT

FOR INFORMATION ONLY



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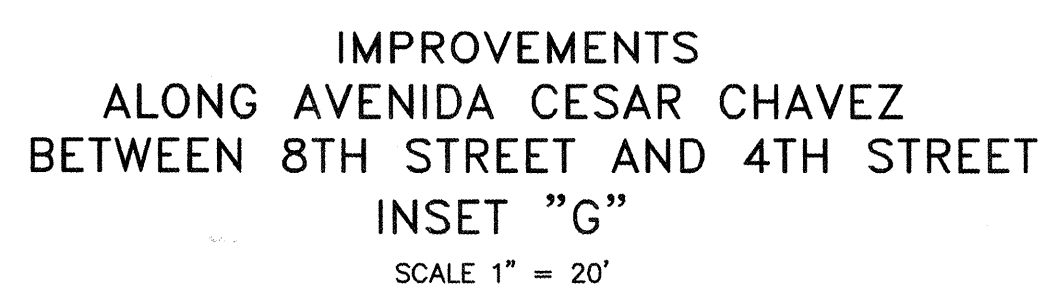
4600-C Montgomery Blvd. NE
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Albuquerque, NM 87109
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: NATIONAL HISPANIC CULTURAL CENTER
INFRASTRUCTURE/ROADWAY IMPROVEMENTS - INSETS & DETAILS

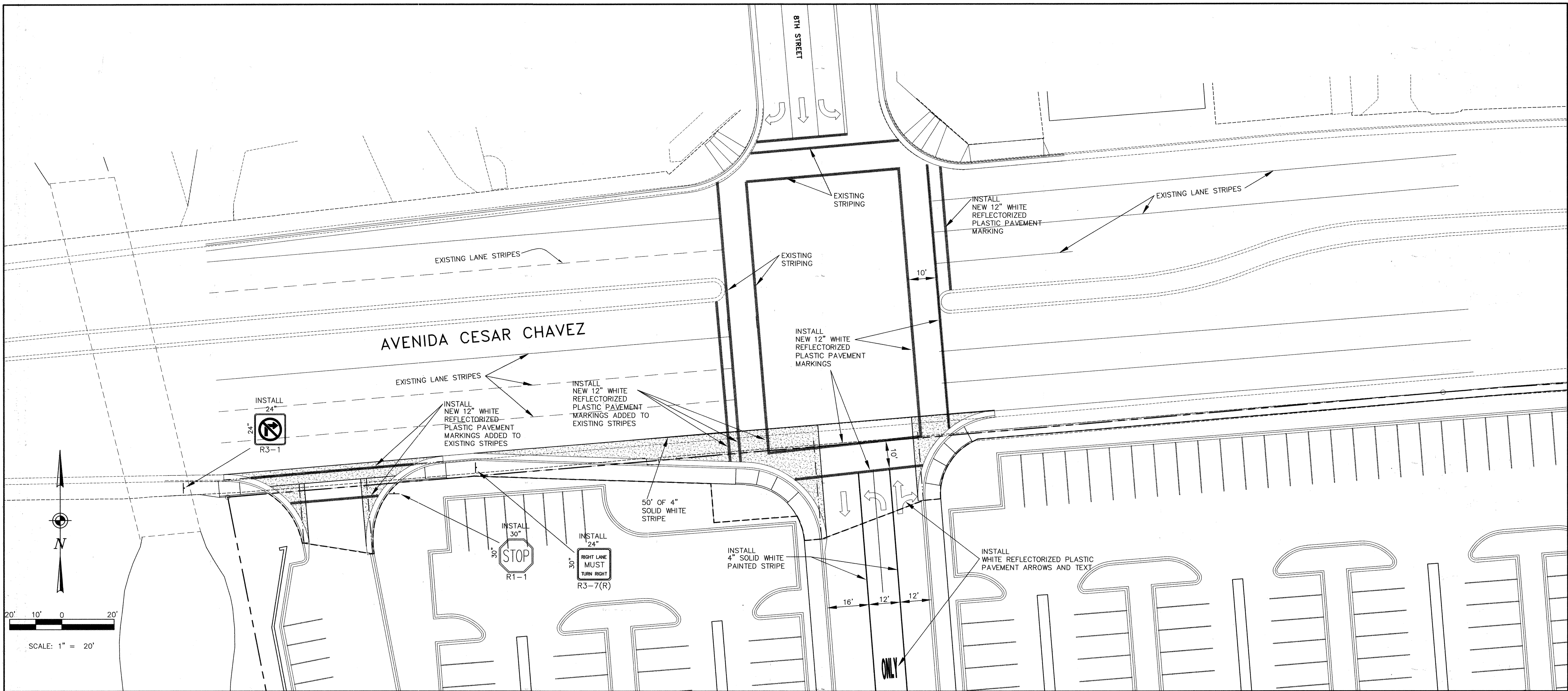
Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED MAY - 9 2000	APPROVED AUG - 4 2000		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		
City Project No.	Zone Map No.	Sheet	Of
623581	L-14-Z	8	36

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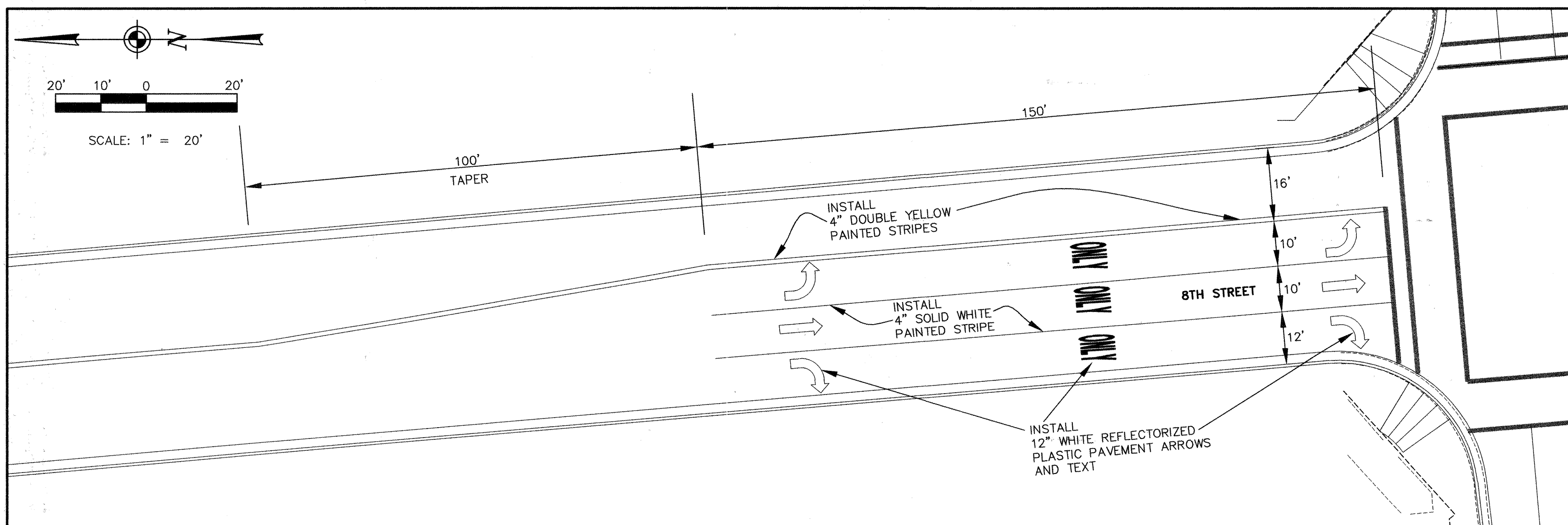
Sheet	Of
8A	36

SCANNED BY
MESA REPRO



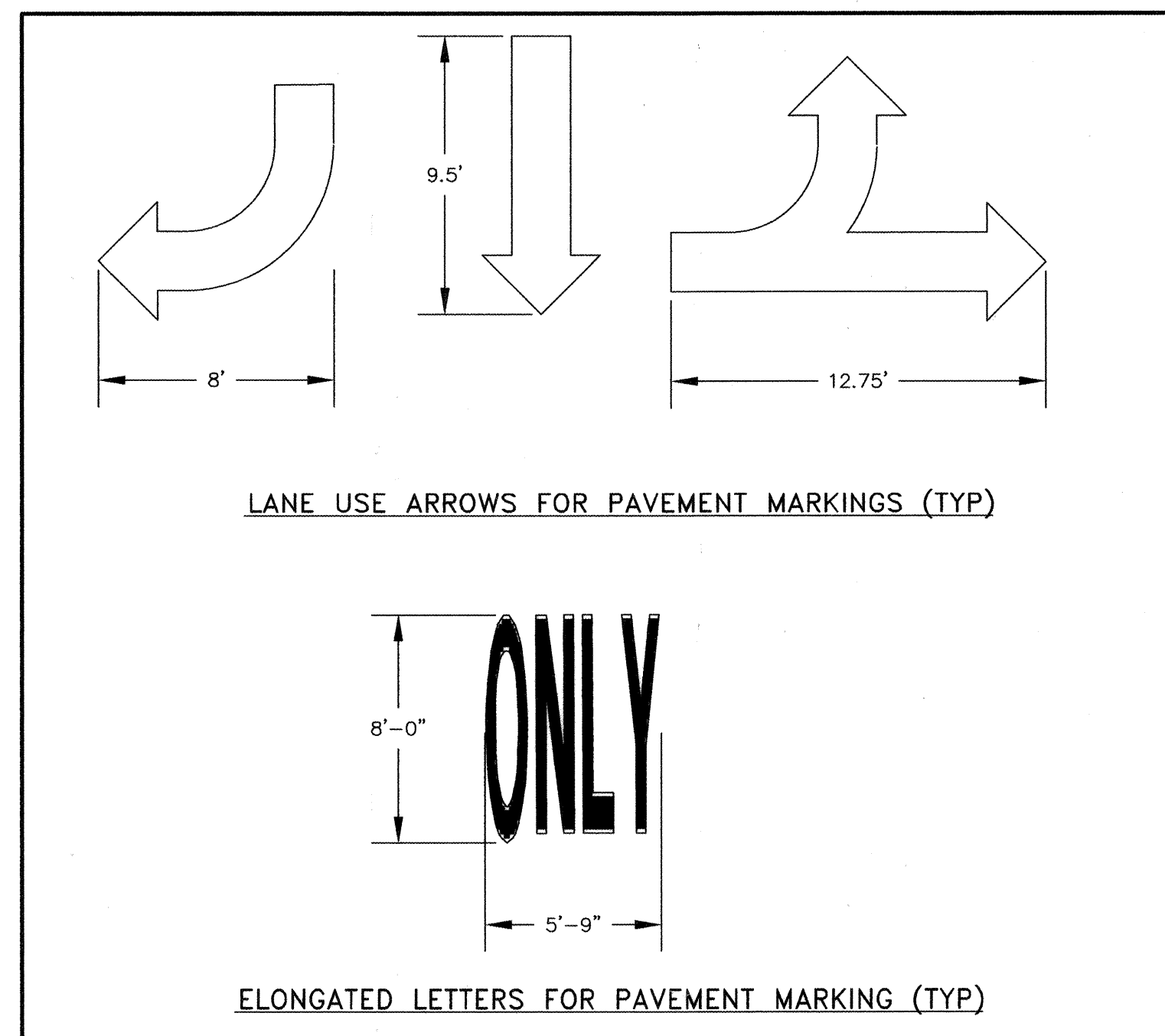
SIGNALIZED INTERSECTION OF AVENIDA CESAR CHAVEZ AND 8TH STREET

HORIZONTAL SCALE 1" = 20'



SIGNALIZED INTERSECTION OF 8TH STREET WITH AVENIDA CESAR CHAVEZ

HORIZONTAL SCALE 1" = 20'



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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: NATIONAL HISPANIC CULTURAL CENTER SIGNING AND STRIPING	
Design Review Committee MAY - 9 2000 DESIGN REVIEW COMMITTEE	City Engineer Approval AUG - 4 2000 CITY ENGINEER
City Project No. 623581	Zone Map No. L-14-Z
Sheet 9	Of 36

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
No.		By		Date		CONTRACTOR	
No.		By		Date		WORK STAKED BY	
No.		By		Date		INSPECTOR'S ACCEPTANCE BY	
No.		By		Date		FIELD VERIFICATION BY	
No.		By		Date		DRAWINGS CORRECTED BY	
No.		By		Date		RECORDED BY	
No.		By		Date		MICRO-FILM INFORMATION	
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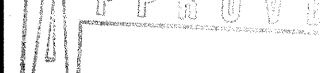
Red Mountain Engineers, Inc.
Engineers - Surveyors

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P.O. Box 16115
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE:	NATIONAL HISPANIC CULTURAL CENTER SIGNING AND STRIPING
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Design Review Committee 		City Engineer Approval 		Last Design Update	Mo./Day/Yr. 		Mo./Day/Yr. 	
DESIGN REVIEW COMMITTEE City Project No. 623581		Zone Map No. 1-14-7			Sheet 10	Of 36		

ENGINEER'S SEAL						SURVEY INFORMATION		BENCH MARKS	AS BUILT INFORMATION
						No.	By	Date	
									CONTRACTOR
									WORK STAKED BY
									INSPECTOR'S ACCEPTANCE BY
									DATE
									FIELD VERIFICATION BY
									DATE
									DRAWINGS CORRECTED BY
									DATE
									MICRO-FILM INFORMATION
									RECORDED BY
									DATE

2-12-00

Designed By	TSH	Date	02/29/00
Drawn By	AOR	Date	02/29/00
Checked By	JEC	Date	02/29/00

RME FILE: X:\98802hcc\DRC\98802S&S.dwg Plot Scale 1=1 11/16/99



**Red
Mountain
Engineers, Inc.**

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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE:	NATIONAL HISPANIC CULTURAL CENTER SIGNING AND STRIPING

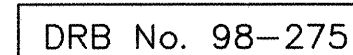
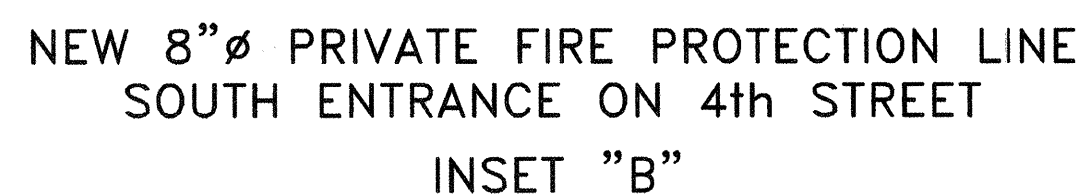
Design Review Committee
APPROVED
MAY - 9 2000
DESIGN
REVIEW COMMITTEE

City Engineer Approval

AUG - 4 2000

CITY ENGINEER

City Project No.	623581	Zone Map No.	L-14-Z	Sheet	11	Of	36
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE:	NATIONAL HISPANIC CULTURAL CENTER INFRASTRUCTURE IMPROVEMENTS UTILITIES – PLANS & PROFILES
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Design Review Committee
APPROVED
MAY - 9 2000
DESIGN
REVIEW COMMITTEE

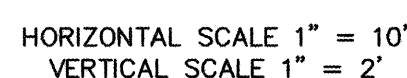
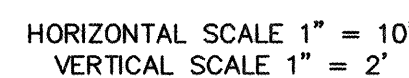
CITY ENGINEER APPROVAL

AUG - 4 2000

CITY ENGINEER

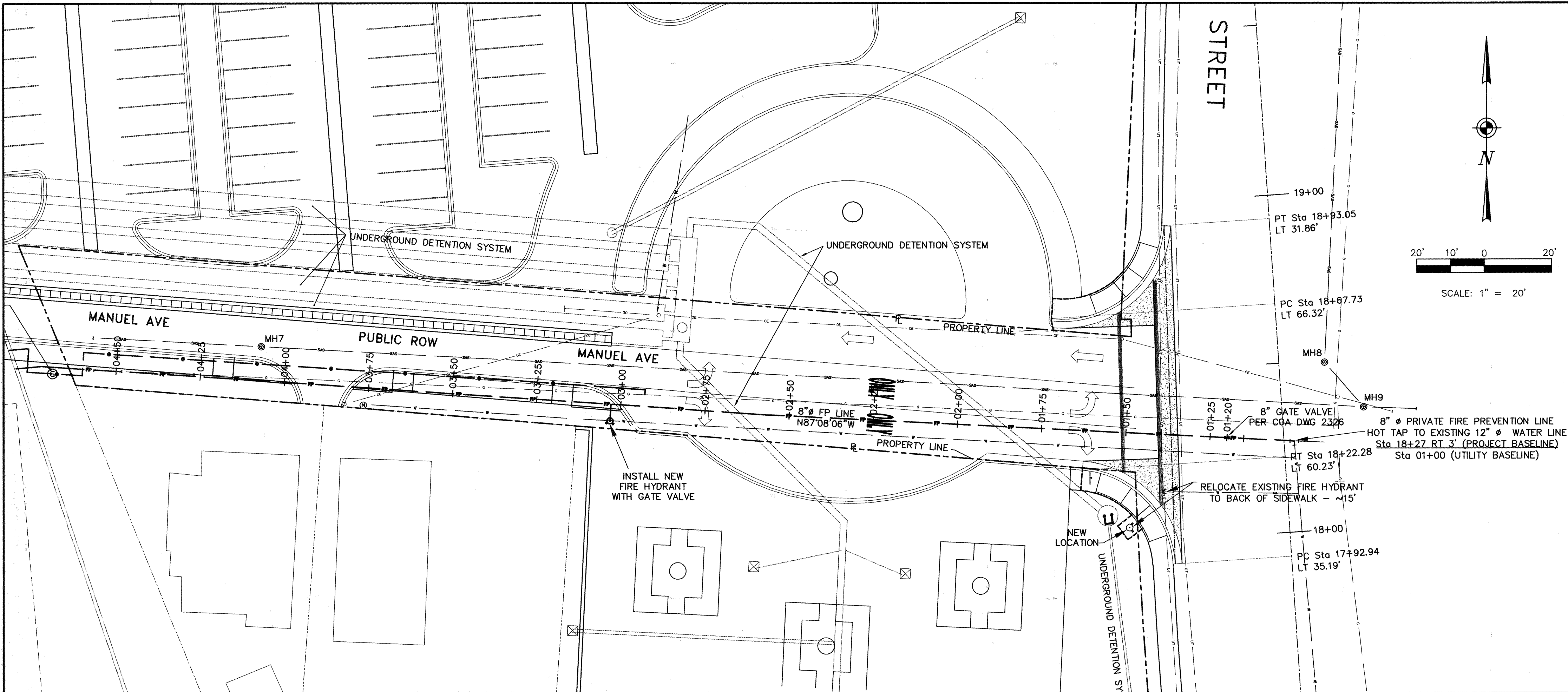
Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

Zone Map No. L-14-Z	Sheet 12	Of 36
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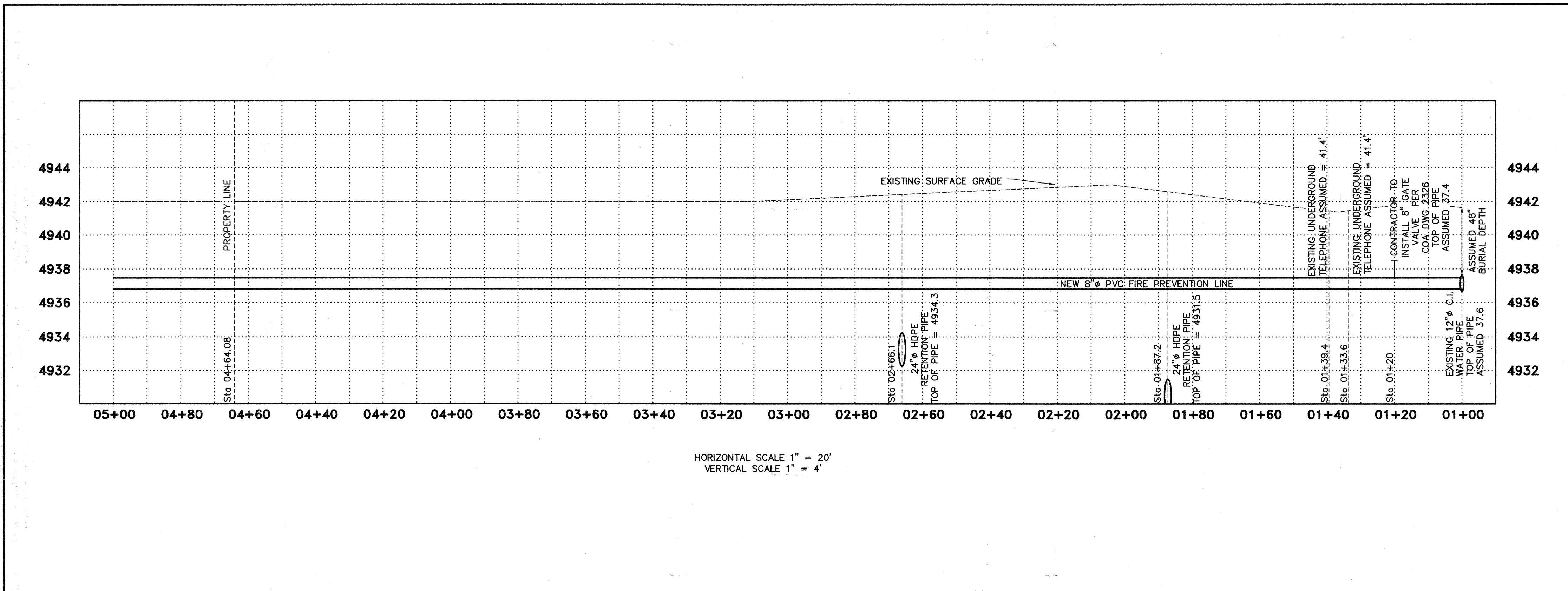


	Last Design Update _____ _____ _____ _____ _____	Mo./Day/Yr.	Mo./Day/Yr.
Map No.	Sheet	Of	
14-Z	13	36	

[illegible]



NEW 8"Ø PRIVATE FIRE PREVENTION LINE
MAIN ENTRANCE ON 4TH STREET
(MANUEL AVENUE)



ELEVATION DATUM NOTE:

ELEVATION DATUM IS BASED ON NGVD 1929 FROM ACS R.B. HWY. 85 BR. 1 ON 4TH STREET WITH AN ELEVATION OF 4941.45 AND IS THE PROJECT BENCHMARK.

PAVEMENT CUT NOTE:

ALL PAVEMENT CUTS SHALL ADHERE TO COA DWG 2465.

LEGEND:

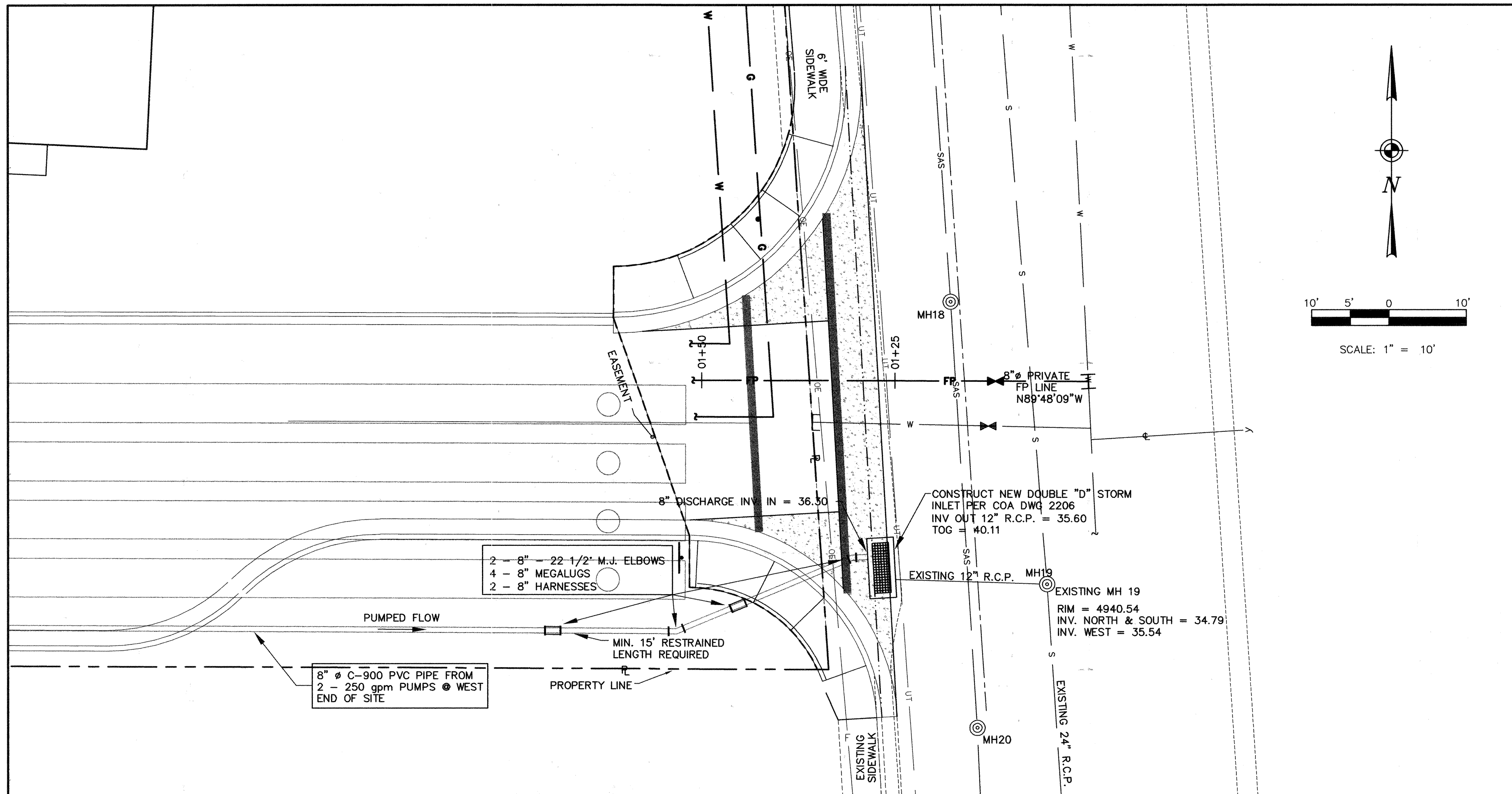
ELEV FINISHED GRADE SPOT ELEVATION
DESC SPOT DESCRIPTION

ABBREVIATIONS

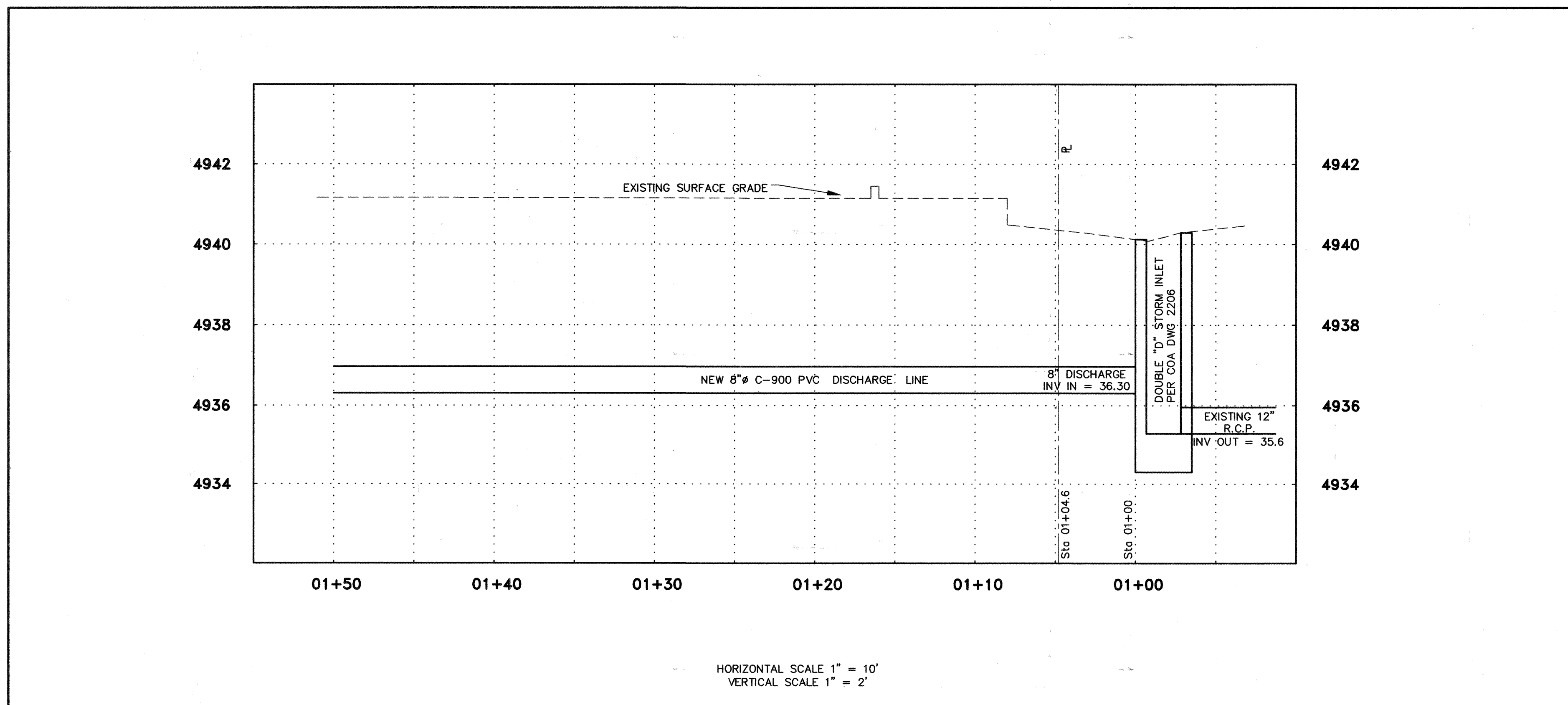
FS FINISHED SURFACE
TC TOP OF CURB
FOC FACE OF CURB
COA CITY OF ALBUQUERQUE
E FLOW LINE
TG TOP OF GRATE
TS FINISHED GRADE
TSW TOP OF SIDEWALK
AC ASPHALTIC CONCRETE
BTB BITUMINOUS TREATED BASE

--- EASEMENT LINE
--- PROJECT BOUNDARY LINE
--- PROPOSED HEADER CURB
--- PROPOSED CURB AND GUTTER
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● DENOTES EXISTING BENCHMARK
P --- EXISTING ELECTRICAL LINE
G --- EXISTING GAS LINE
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S --- EXISTING STORM DRAIN LINE
UT --- EXISTING BURIED TELEPHONE CONDUIT
W --- EXISTING WATER LINE
---TR--- EXISTING TRAFFIC CONDUIT
○ DENOTES EXISTING UTILITY POLE w/ANCHOR GUY
● DENOTES EXISTING MANHOLE
■ DENOTES EXISTING TELEPHONE PEDESTAL
⊙ DENOTES EXISTING WATER METER
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--- TYPICAL UTILITY STUB OUT

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NEW 8"Ø C-900 PVC UNDERGROUND DETENTION DISCHARGE LINE
SOUTH ENTRANCE ON 4th STREET



ELEVATION DATUM NOTE:

ELEVATION DATUM IS BASED ON NGVD 1929 FROM ACS R.B. HWY. 85 BR. 1 ON 4TH STREET WITH AN ELEVATION OF 4941.45 AND IS THE PROJECT BENCHMARK.

PAVEMENT CUT NOTE:

ALL PAVEMENT CUTS SHALL ADHERE TO COA DWG 2465.

LEGEND:

ELEV FINISHED GRADE SPOT ELEVATION
DESC SPOT DESCRIPTION

ABBREVIATIONS

FS FINISHED SURFACE
TC TOP OF CURB
FOC FACE OF CURB
COA CITY OF ALBUQUERQUE
F FLOW LINE
TOG TOP OF GRATE
FG FINISHED GRADE
TSW TOP OF SIDEWALK
AC ASPHALTIC CONCRETE
BTB BITUMINOUS TREATED BASE

- EASEMENT LINE
- PROJECT BOUNDARY LINE
- ===== PROPOSED HEADER CURB
- ===== PROPOSED CURB AND GUTTER
- ===== FLOW LINE
- DENOTES EXISTING BENCHMARK
- P — EXISTING ELECTRICAL LINE
- G — EXISTING GAS LINE
- SAS — EXISTING SANITARY SEWER LINE
- S — EXISTING STORM DRAIN LINE
- UT — EXISTING BURIED TELEPHONE CONDUIT
- W — EXISTING WATER LINE
- TR --- EXISTING TRAFFIC CONDUIT
- DENOTES EXISTING UTILITY POLE w/ANCHOR GUY
- ⊙ DENOTES EXISTING MANHOLE
- ⊠ DENOTES EXISTING TELEPHONE PEDESTAL
- ⊙ DENOTES EXISTING WATER METER
- ⊙ DENOTES EXISTING LIGHT POLE
- ⊙ DENOTES EXISTING WATER VALVE
- ⊙ DENOTES EXISTING TRAFFIC LIGHT
- ⊙ DENOTES EXISTING FIRE HYDRANT
- ⊙ DENOTES EXISTING DROP INLET
- TYPICAL UTILITY STUB OUT

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	Sta. R.B. Hwy 85 Br. 1	Date	No.	By	Professional Engineer Seal	By
WORK STAKED BY	DATE						
INSPECTOR'S ACCEPTANCE BY	DATE						
FIELD VERIFICATION BY	DATE						
DRAWINGS CORRECTED BY	DATE						
RECORDED BY	DATE						

FOR INFORMATION ONLY

Red Mountain Engineers, Inc.
1216 Parkway Drive
P.O. Box 16115
Santa Fe, NM 87506-6115
Phone: (505) 473-7373

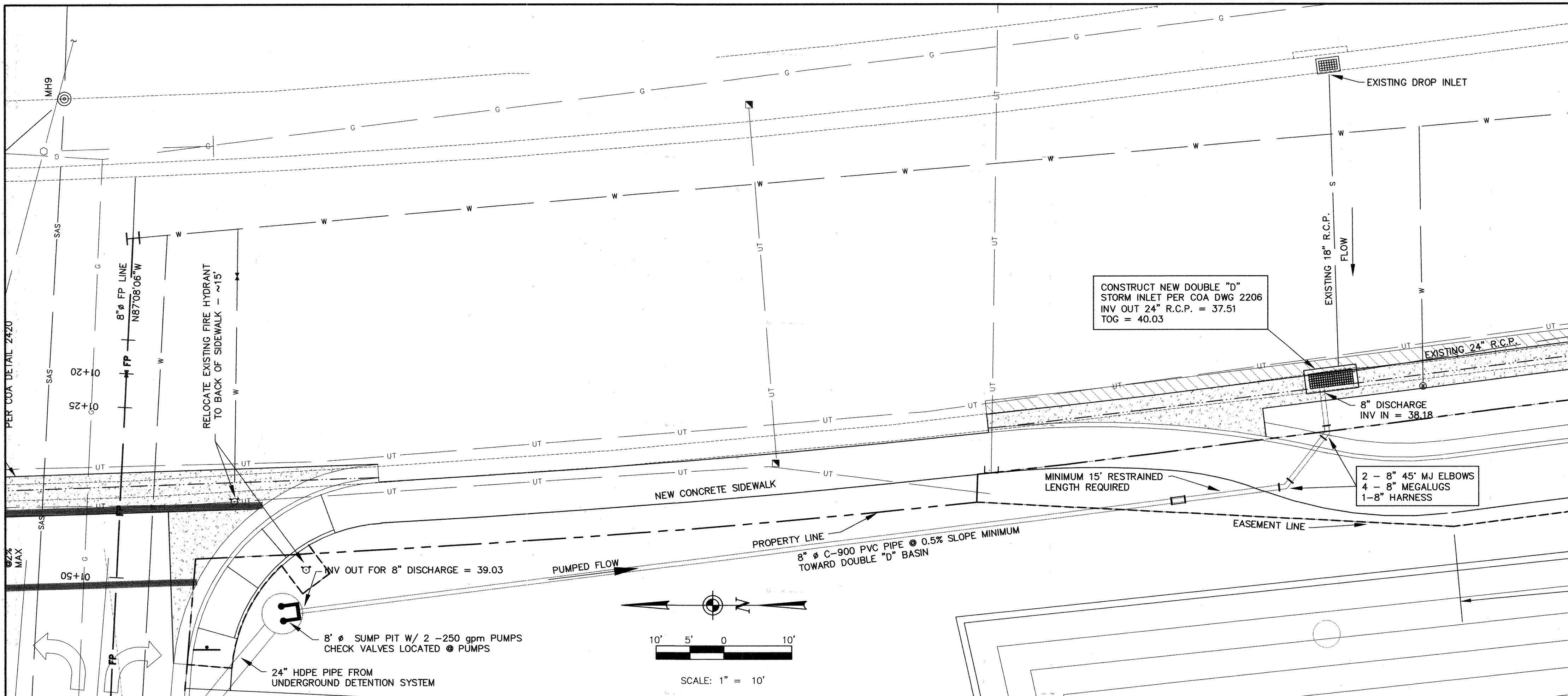
4600-C Montgomery Blvd. NE
Suite 101
Albuquerque, NM 87109
Phone: (505) 889-3004

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

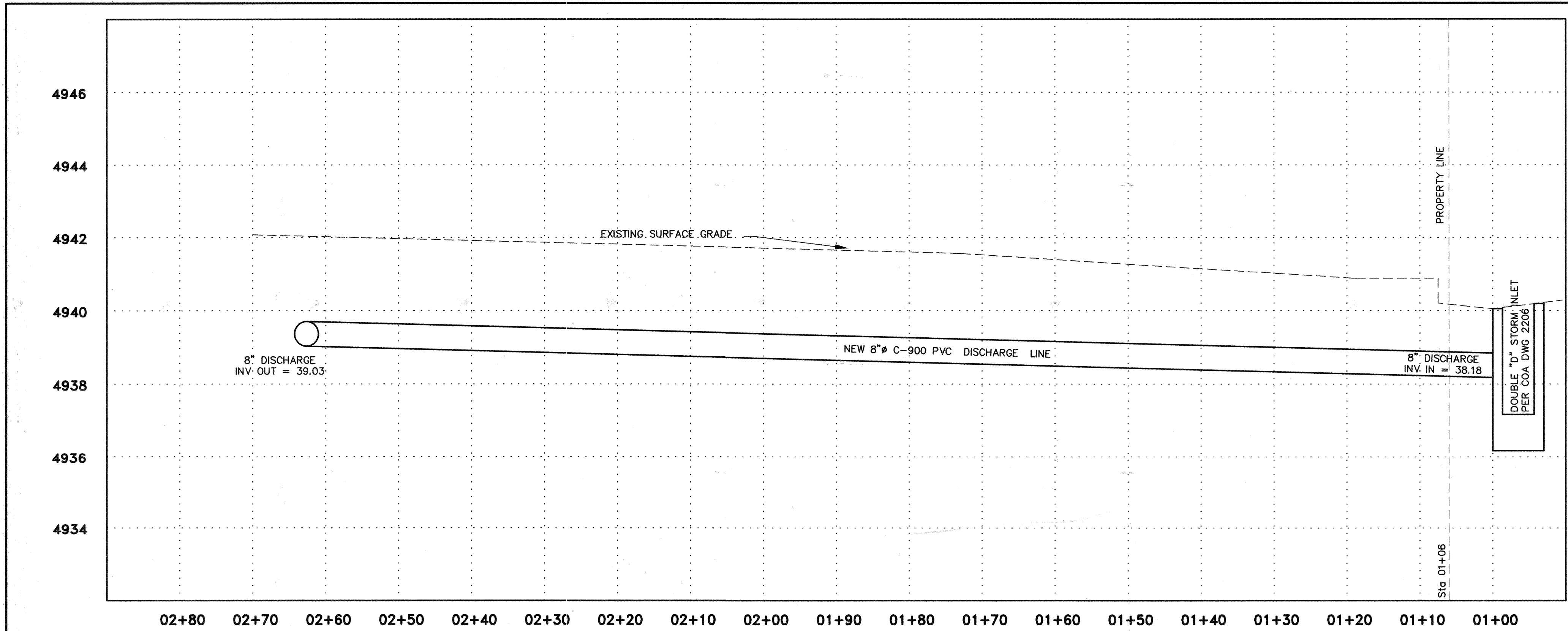
TITLE: NATIONAL HISPANIC CULTURAL CENTER
INFRASTRUCTURE IMPROVEMENTS - UNDERGROUND DETENTION SYSTEM
DISCHARGE TO CITY CATCH BASIN - PLANS & PROFILES

Design Review Committee: MAY - 9 2000
City Engineer Approval: AUG - 4 2000
CITY ENGINEER

City Project No. 623581
Zone Map No. L-14-Z
Sheet 15 of 36



NEW 8"Ø C-900 PVC UNDERGROUND DETENTION DISCHARGE LINE ON 4TH STREET



HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 2'

ELEVATION DATUM NOTE:

ELEVATION DATUM IS BASED ON NGVD 1929 FROM ACS R.B. HWY. 85 BR. 1 ON 4TH STREET WITH AN ELEVATION OF 4941.45 AND IS THE PROJECT BENCHMARK.

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AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	WORK STAKED BY	Sta. R.B. Hwy 85 Br. 1	Date	Field Notes	By	No.	By
INSPECTOR'S ACCEPTANCE BY	DATE						
FIELD VERIFICATION BY	DATE						
DRAWINGS CORRECTED BY	DATE						
RECORDED BY	DATE						
MICRO-FILM INFORMATION							

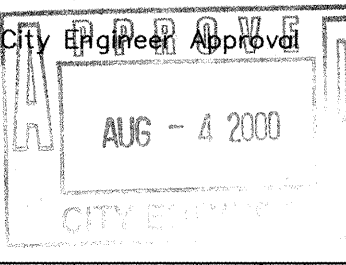
FOR INFORMATION ONLY



1216 Parkway Drive
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP
NATIONAL HISPANIC CULTURAL CENTER
INFRASTRUCTURE IMPROVEMENTS - UNDERGROUND DETENTION SYSTEM
DISCHARGE TO CITY CATCH BASIN - PLANS & PROFILES



Last Design Update

City Project No. 623581 Zone Map No. L-14-Z Sheet 16 Of 36

DRB No. 98-275

SCANNED BY
MESA REPRO

- S:\TRANS\GRAPHICS\CDA\IMPERIAL

		TYPE II STANDARD WITH MASTARM, TRAFFIC SIGNAL, BACK PLATE, AND OPTICAL DETECTOR
		PEDESTRIAN PUSH BUTTON (MOUNTED TO SIDE OF POLE WHERE INDICATED)
		SPLICE CABINET
		TRAFFIC MANHOLE

1. "ENGINEER" - FOR THE PURPOSES OF THIS PROJECT, THE TERM "ENGINEER" IS SYNONYMOUS WITH THE TERM "PROJECT MANAGER".

THIS IS AN EXAMPLE DRAWING
WHICH MUST BE MODIFIED
ON A JOB-TO-JOB BASIS

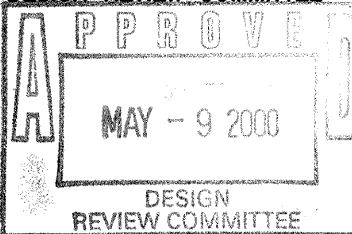
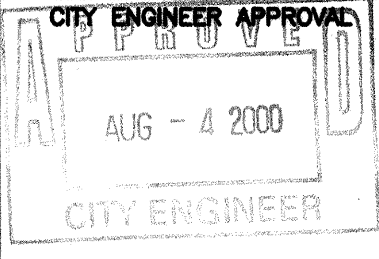
ABESGNT.DWG

INCIDENTAL ITEMS *

1. REMOVAL OF EXISTING PULL BOXES, CONDUITS, OR OTHER SIGNAL EQUIPMENT FOR INSTALLATION OF NEW SIGNAL EQUIPMENT.
 2. CABLE TESTING AND DIAGRAMS.
 3. BORING, DRILLING, PUSHING, AND TRENCHING, INCLUDING REMOVAL AND REPLACEMENT OF PAVEMENT, SIDEWALKS, DRIVE PADS, VALLEY GUTTERS, WHEELCHAIR RAMPS, CURB & GUTTER, AND LANDSCAPING (INCLUDING SPRINKLERS). FOR INSTALLATION OF PULL BOXES, CONDUITS, AND SIGNAL FOUNDATIONS, EXCEPT AS NOTED ON THE PLANS.
 4. LOCATION OF UTILITY LINES INCLUDING EXPLORATORY TRENCHING AND EXPOSING OF GAS LINES WHEN BORING.
 5. DESIGN, MATERIALS, INSTALLATION AND REMOVAL OF SAFETY BARRIER FOR SHIELDING EQUIPMENT OR MATERIAL.
 6. APPRISING PUBLIC THROUGH THE LOCAL NEWS MEDIA.
 7. HAULING OF MATERIAL TO BE DISPOSED TO CITY LANDFILL.
 8. REMOVAL, SALVAGE, AND TRANSPORTATION OF EXISTING SIGNAL EQUIPMENT TO THE TRAFFIC ENGINEERING OPERATIONS YARD.
 9. LEAN FILL FOR CONDUIT TRENCHES.
 10. PULL BOX ADJUSTMENT TO GRADE.
 11. OFF-DUTY POLICE OFFICER FOR TRAFFIC CONTROL.
 12. REMOVAL AND REPLACEMENT IN KIND OR BETTER OF LANDSCAPING INCLUDING SPRINKLERS, FOR INSTALLATION OF PULL BOXES, CONDUITS AND SIGNAL FOUNDATIONS.
 13. COST FOR PUBLIC SERVICE COMPANY TO PROVIDE ELECTRICAL SERVICE.
- * ITEMS LISTED ARE ONLY A GENERAL DESCRIPTION OF THE REQUIRED WORK AND MATERIALS, AND MAY NOT BE COMPLETE. THIS LIST DOES NOT INCLUDE ANY INCIDENTAL WORK OR MATERIALS REQUIRED BY THE SPECIAL PROVISIONS SERIALS (STANDARD DETAILS), SUPPLEMENTAL SPECIFICATIONS, OR THE STANDARD SPECIFICATIONS.

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THIS IS AN EXAMPLE DRAWING
WHICH MUST BE MODIFIED
ON A JOB-TO-JOB BASIS

		CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE:		TRAFFIC SIGNAL EQUIPMENT REQUIREMENTS & INCIDENTAL ITEMS	
DESIGN REVIEW COMMITTEE 	CITY ENGINEER APPROVAL 	LAST DESIGN UPDATE	MO./DAY/YR.
			MO./DAY/YR.
			MO./DAY/YR.
			MO./DAY/YR.
CITY PROJECT NO. 623581	ZONE MAP NO. 	SHEET 18	OF 36

LOOP LEAD-IN CABLE

FROM	TO	CONDUIT TRACE	# PAIR x LENGTH	TOTAL LENGTH
PB2	CONTROLLER 2-1		1 @ 92'	92'
PB3	CONTROLLER 3-MA2-2-1		2 @ 163'	326'
PB4	CONTROLLER 4-5-6-7-8-1		1 @ 286'	286'
PB5	CONTROLLER 5-6-7-8-1		1 @ 212'	212'
PB9	CONTROLLER 9-7-8-1		2 @ 150'	300'

KEYED NOTES

- REMOVE EXISTING LIGHT POLE, LUMINAIRE, AND FOUNDATION.
- CONTRACTOR TO INSTALL CONDUIT AND RISER, PNM TO INSTALL POLE AND WIRE
- NEW MANHOLE FOR COMMUNICATION
- NEW TELEPHONE DROP
- REMOVE EXISTING CONTROL CABINET AND FOUNDATION
- REMOVE EXISTING TRAFFIC SIGNAL POLE, MASTARM AND FOUNDATION, TO BE SALVAGED AND DELIVERED TO C.O.A. PINO YARD.
- REMOVE AND RELOCATE EXISTING PEDESTAL POLE AND TRAFFIC SIGNAL HEAD. REMOVE EXISTING FOUNDATION AND INSTALL NEW FOUNDATION AT NEW PEDESTAL POLE LOCATION
- CONNECT NEW CONDUIT TO EXISTING PULL BOX
- EXISTING CONDUIT - COMMUNICATIONS
- EXISTING CONDUIT - LIGHTING
- NEW CONDUIT - COMMUNICATIONS (2")
- NEW CONDUIT - LIGHTING (2")
- INTERCEPT EXISTING COMMUNICATION CONDUIT
- NEW WIRE - COMMUNICATIONS (12 PAIR)
- NEW WIRE - LIGHTING (2-NO. 2 ALUMINUM, 1-NO. 6 GROUND)
- INTERCEPT EXISTING LIGHTING CONDUIT, INSTALL NEW STD. SIZE PULL BOX.
- RESET EXISTING LIGHT POLE WITH NEW LUMINAIRE ON NEW FOUNDATION PER PNM STANDARD DRAWING NOS. DS-12-11.0 AND DS-12-14.0. LUMINAIRES SHALL BE G.E. "POWER DOOR" SERIES, 250W HPS, TYPE III DISTRIBUTION AT 30' MOUNTING HEIGHT WITH FLAT GLASS FIXTURES AND PHOTO CELLS, AND FULL CUTOFF FIXTURES. INSTALL NEW BREAKAWAY COUPLERS TO EXISTING POLES.
- EXISTING 12 PAIR COMMUNICATION CABLE FROM CC1 TO SPLICE CABINET AT LA VEGA AND BRIDGE. EXISTING WIRING SHALL BE PULLED AND WRAPPED FOR PROTECTION, THEN RE-ROUTED THROUGH NEW CONDUITS. CONTRACTOR SHALL ENSURE ADEQUATE LENGTH EXISTS AND SHALL ADJUST PLACEMENT OF SPLICE CABINET, IF NECESSARY. DAMAGED CABLES SHALL BE REPLACED FOR THE FULL LENGTH OF THE INTERCONNECT LINE TO LA VEGA BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE.

FLASH CONDITION *

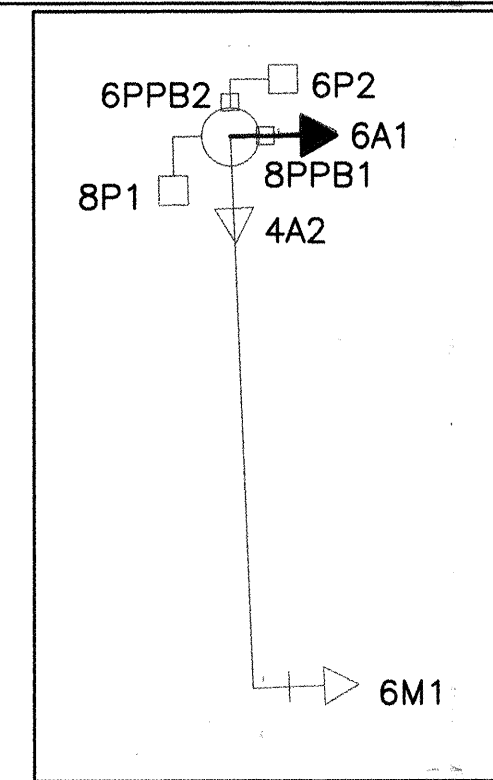
RED HEADS 1Q1,1Q2,2M1,2M2,2A1
4A1,4A2,4M1
RED HEADS 5Q1,5Q2
6A1,6M1,8A1,8M1,8M2,8R1

INITIALIZATION

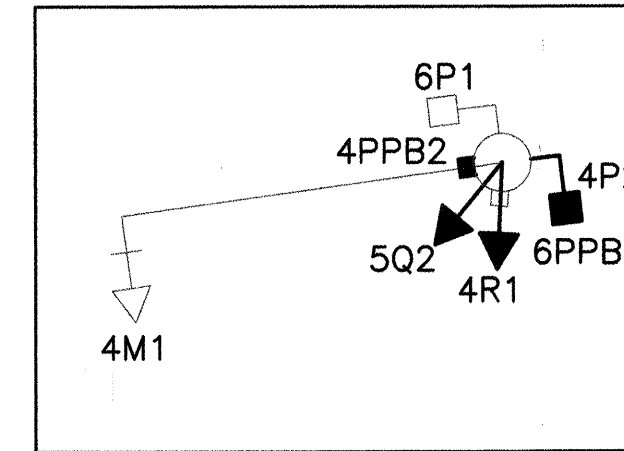
ALL RED, THEN PHASE 2 AND 6 GREEN

NOTES

PB1, PB6, PB7, PB8 & PB9 ARE NEW LARGE SIZE PULL BOXES.

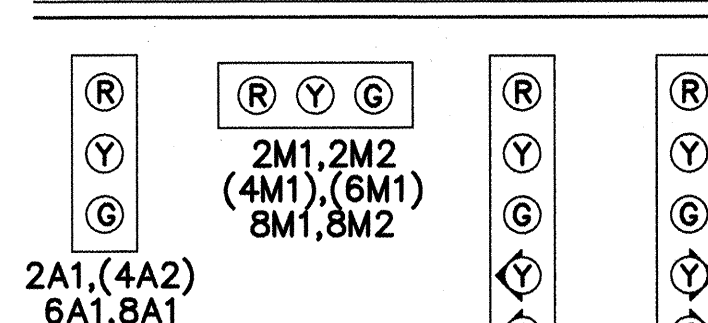


MASTARM #2 DETAIL



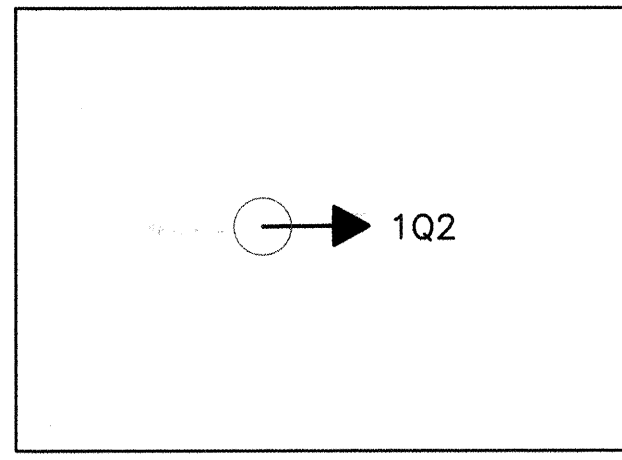
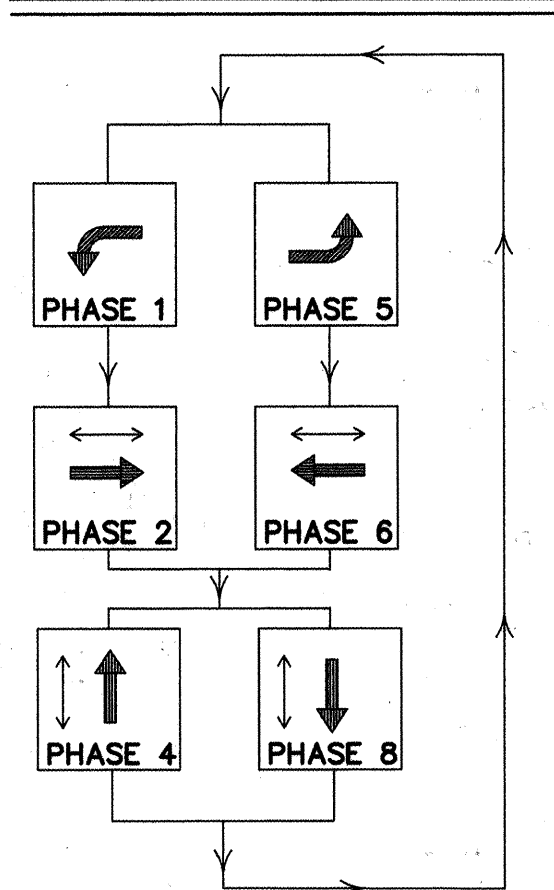
MASTARM #3 DETAIL

TYPICAL SIGNAL FACE LENS ARRANGEMENTS

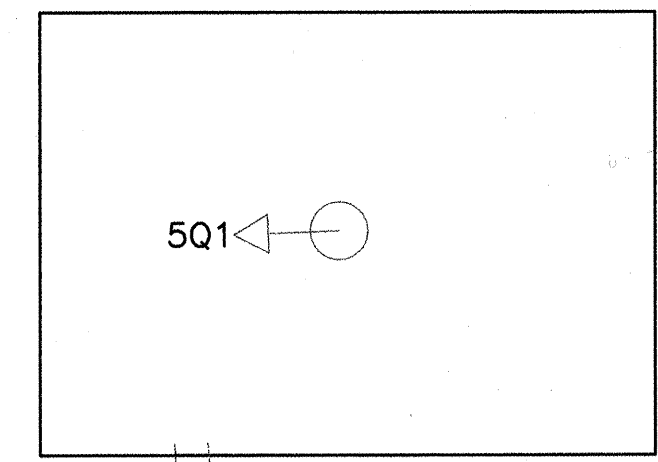


NOTE: 5-SECTION SIGNALS SHALL HAVE 12" LENSES.

SIGNAL PHASING

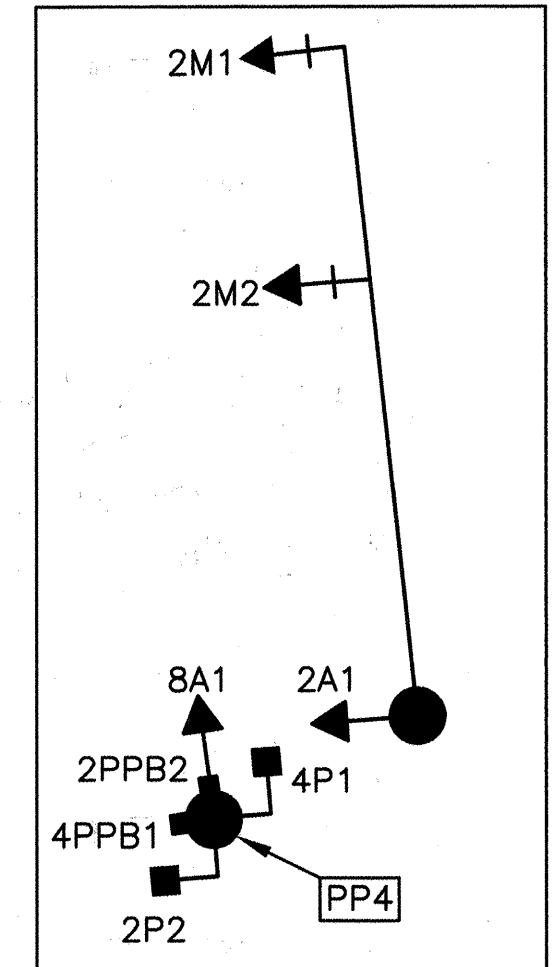


PEDESTAL POLE #2



PEDESTAL POLE #3

NEW 12 PAIR COMMUNICATION CABLE FROM CC1 TO SPLICE CABINET AT LA VEGA AND AVENIDA DE CESAR CHAVEZ

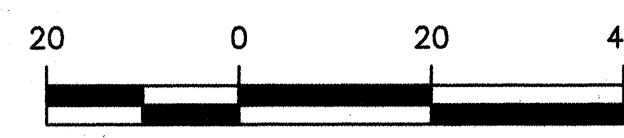


MASTARM #4 DETAIL



FOR INFORMATION ONLY

GRAPHIC SCALE IN FEET

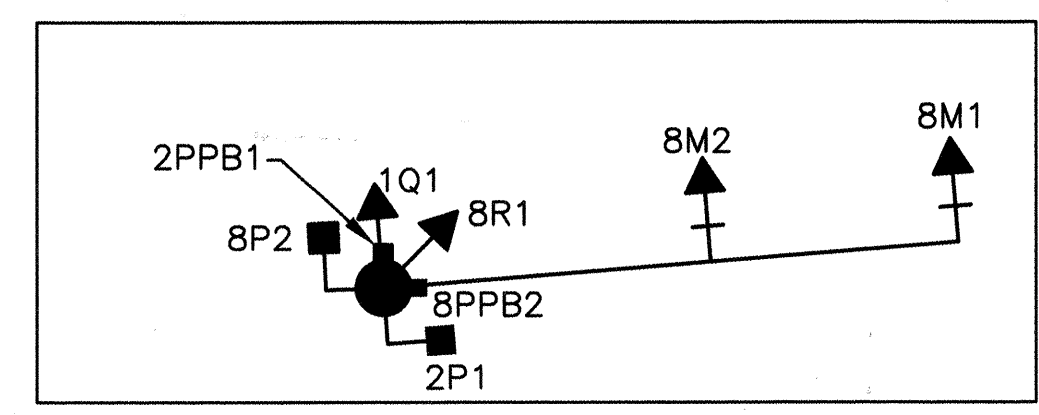


ABBREVIATIONS

MA1	MASTARM NUMBER
PP1	PEDESTAL POLE NUMBER
PPB1	PEDESTRIAN PUSH BUTTON NUMBER
CC1	CONTROL CABINET NUMBER
SC1	SPLICE CABINET NUMBER
PB1	PULL BOX NUMBER (SIGNALS)
PBS1	PULL BOX NUMBER (POWER)
PBC1	PULL BOX NUMBER (INTERCONNECT)
PBL1	PULL BOX NUMBER (LIGHTING)
DL1(1)	DETECTOR LOOP PHASE # (LOOP #)
3A	SIGNAL HEAD NUMBER
P1	PEDESTRIAN SIGNAL NUMBER
BP	BACK PLATE
EC	EXTENDED CALL LOOP DETECTOR
SD	SYSTEM LOOP DETECTOR
MH1	TRAFFIC MANHOLE NUMBER

SYMBOL KEY

MA1	SIGNAL & CABINET ID
99	CONDUIT RUN ID
S1	CONDUIT RUN ID (POWER SERVICE)
C1	CONDUIT RUN ID (INTERCONNECT)



MASTARM #1 DETAIL

NATIONAL HISPANIC CULTURAL CENTER

FOUNDATION LOCATION DATA

FROM	BRIDGE	8th
MA1	14.75'	19.5'
MA4	9.0'	30.0'
PP1	12.0'	29.5'
PP3	0.22'	0.5'
PP4	20.75'	11.75'

SIGNAL POLES AND MASTARMS

ID#	TYPE
MA1	MASTARM-TYPE II-30'
MA2	MASTARM-TYPE II-30'
MA3	MASTARM-TYPE II-20'
MA4	MASTARM-TYPE II-35'
PP1	PED POLE - 13'
PP2	PED POLE - 13'
PP3	PED POLE - 13'
PP4	PED POLE - 13'

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: TRAFFIC SIGNAL PLAN
8th STREET & AVENIDA CESAR CHAVEZ

DESIGN REVIEW COMMITTEE: MAY - 9 2000
CITY ENGINEER APPROVAL: AUG - 4 2000

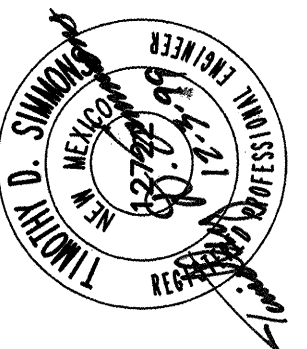
MO./DAY/YR. SHEET 19 OF 36

SCANNED BY
MESA REPRO

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ABECCBL.DWG

CC 6	COMMUNICATION CABLE-6 PAIR
CC 12	COMMUNICATION CABLE-12 PAIR
DLLIC	DETECTOR LOOP LEAD IN CABLE
MA	MASTARM
MCC	MULTI CONDUCTOR CABLE
PB	PULL BOX
PP	PEDESTAL POLE
PPB	PEDESTRIAN PUSH BUTTON
REC	RIGID ELECTRIC CONDUIT
SCC	SINGLE CONDUCTOR CABLE
SCCAL	SINGLE CONDUCTOR ALUMINUM CABLE
CAM	VIDEO CAMERA



	CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP														
	TITLE: TRAFFIC SIGNAL CABLES & CONDUITS 8th STREET & AVENIDA CESAR CHAVEZ														
DESIGN REVIEW COMMITTEE APPROVED MAY - 9 2000 DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL APPROVED AUG - 4 2000 CITY ENGINEER	LAST DESIGN UPDATE	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">MO./DAY/YR.</th> <th style="width: 50%;">MO./DAY/YR.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	MO./DAY/YR.	MO./DAY/YR.										
MO./DAY/YR.	MO./DAY/YR.														
CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF												
623581			20 36												

[illegible][illegible]

CONDUCTOR			RING 1 – MULTI CONDUCTOR CABLE 20		RING 2 – MULTI CONDUCTOR CABLE 20 2/	
CONDUCTOR NUMBER	BASE COLOR	TRACER	FUNCTION	FIELD CONNECTION	FUNCTION	FIELD CONNECTION
1	BLACK	–	PHASE	SPARE	PHASE 8 GREEN	GREEN RIGHT TURN ARROW 4A1
2	WHITE	–	PHASE	SPARE	PHASE 8 GREEN	YELLOW RIGHT TURN ARROW 4A1
3	RED	–	PHASE 1 RED	SPARE	PHASE 5 RED	SPARE
4	GREEN	–	PHASE 1 GREEN	GREEN LEFT TURN ARROW 1Q1, 1Q2	PHASE 5 GREEN	GREEN LEFT TURN ARROW 5Q1, 5Q2
5	ORANGE	–	PHASE 1 YELLOW	YELLOW LEFT TURN ARROW 1Q1, 1Q2	PHASE 5 YELLOW	YELLOW LEFT TURN ARROW 5Q1, 5Q2
6	BLUE	–	PHASE	SPARE	PHASE 5 GREEN	GREEN RIGHT TURN ARROW 8R1
7	WHITE	BLACK	PHASE	SPARE	PHASE 5 YELLOW	YELLOW RIGHT TURN ARROW 8R1
8	RED	BLACK	PHASE 2 RED	RED BALL 2A1, 2M1, 2M2, 5Q1, 5Q2	PHASE 6 RED	RED BALL 6A1, 6M1, 1Q1, 1Q2
9	GREEN	BLACK	PHASE 2 GREEN	GREEN BALL 2A1, 2M1, 2M2, 5Q1, 5Q2	PHASE 6 GREEN	GREEN BALL 6A1, 6M1, 1Q1, 1Q2
10	ORANGE	BLACK	PHASE 2 YELLOW	YELLOW BALL 2A1, 2M1, 2M2, 5Q1, 5Q2	PHASE 6 YELLOW	YELLOW BALL 6A1, 6M1, 1Q1, 1Q2
11	BLUE	BLACK	PHASE 2 WALK	PEDESTRIAN WALK 2P1, 2P2	PHASE 6 WALK	PEDESTRIAN WALK 6P1, 6P2
12	BLACK	WHITE	PHASE 2 DON'T WALK	PEDESTRIAN DON'T WALK 2P1, 2P2	PHASE 6 DON'T WALK	PEDESTRIAN DON'T WALK 6P1, 6P2
13	RED	WHITE	PHASE 3 RED	SPARE	PHASE 7 RED	SPARE
14	GREEN	WHITE	PHASE 3 GREEN	SPARE	PHASE 7 GREEN	SPARE
15	BLUE	WHITE	PHASE 3 YELLOW	SPARE	PHASE 7 YELLOW	SPARE
16	BLACK	RED	PHASE 4 RED	RED BALL 4A1, 4A2, 4M1	PHASE 8 RED	RED BALL 8A1, 8M1, 8M2, 8R1
17	WHITE	RED	PHASE 4 GREEN	GREEN BALL 4A1, 4A2, 4M1	PHASE 8 GREEN	GREEN BALL 8A1, 8M1, 8M2, 8R1
18	ORANGE	RED	PHASE 4 YELLOW	YELLOW BALL 4A1, 4A2, 4M1	PHASE 8 YELLOW	YELLOW BALL 8A1, 8M1, 8M2, 8R1
19	BLUE	RED	PHASE 4 WALK	PEDESTRIAN WALK 4P1, 4P2	PHASE 8 WALK	PEDESTRIAN WALK 8P1, 8P2
20	RED	GREEN	PHASE 4 DON'T WALK	PEDESTRIAN DON'T WALK 4P1, 4P2	PHASE 8 DON'T WALK	PEDESTRIAN DON'T WALK 8P1, 8P2

CONDUCTOR			RING 1 – MULTI CONDUCTOR CABLE 20		RING 2 – MULTI CONDUCTOR CABLE 20 2/	
CONDUCTOR NUMBER	BASE COLOR	TRACER	FUNCTION	FIELD CONNECTION	FUNCTION	FIELD CONNECTION
1	BLACK	–	PHASE	SPARE	PHASE 8 GREEN	GREEN RIGHT TURN ARROW 4A1
2	WHITE	–	PHASE	SPARE	PHASE 8 GREEN	YELLOW RIGHT TURN ARROW 4A1
3	RED	–	PHASE 1 RED	SPARE	PHASE 5 RED	SPARE
4	GREEN	–	PHASE 1 GREEN	GREEN LEFT TURN ARROW 1Q1, 1Q2	PHASE 5 GREEN	GREEN LEFT TURN ARROW 5Q1, 5Q2
5	ORANGE	–	PHASE 1 YELLOW	YELLOW LEFT TURN ARROW 1Q1, 1Q2	PHASE 5 YELLOW	YELLOW LEFT TURN ARROW 5Q1, 5Q2
6	BLUE	–	PHASE	SPARE	PHASE 5 GREEN	GREEN RIGHT TURN ARROW 8R1
7	WHITE	BLACK	PHASE	SPARE	PHASE 5 YELLOW	YELLOW RIGHT TURN ARROW 8R1
8	RED	BLACK	PHASE 2 RED	RED BALL 2A1, 2M1, 2M2, 5Q1, 5Q2	PHASE 6 RED	RED BALL 6A1, 6M1, 1Q1, 1Q2
9	GREEN	BLACK	PHASE 2 GREEN	GREEN BALL 2A1, 2M1, 2M2, 5Q1, 5Q2	PHASE 6 GREEN	GREEN BALL 6A1, 6M1, 1Q1, 1Q2
10	ORANGE	BLACK	PHASE 2 YELLOW	YELLOW BALL 2A1, 2M1, 2M2, 5Q1, 5Q2	PHASE 6 YELLOW	YELLOW BALL 6A1, 6M1, 1Q1, 1Q2
11	BLUE	BLACK	PHASE 2 WALK	PEDESTRIAN WALK 2P1, 2P2	PHASE 6 WALK	PEDESTRIAN WALK 6P1, 6P2
12	BLACK	WHITE	PHASE 2 DON'T WALK	PEDESTRIAN DON'T WALK 2P1, 2P2	PHASE 6 DON'T WALK	PEDESTRIAN DON'T WALK 6P1, 6P2
13	RED	WHITE	PHASE 3 RED	SPARE	PHASE 7 RED	SPARE
14	GREEN	WHITE	PHASE 3 GREEN	SPARE	PHASE 7 GREEN	SPARE
15	BLUE	WHITE	PHASE 3 YELLOW	SPARE	PHASE 7 YELLOW	SPARE
16	BLACK	RED	PHASE 4 RED	RED BALL 4A1, 4A2, 4M1	PHASE 8 RED	RED BALL 8A1, 8M1, 8M2, 8R1
17	WHITE	RED	PHASE 4 GREEN	GREEN BALL 4A1, 4A2, 4M1	PHASE 8 GREEN	GREEN BALL 8A1, 8M1, 8M2, 8R1
18	ORANGE	RED	PHASE 4 YELLOW	YELLOW BALL 4A1, 4A2, 4M1	PHASE 8 YELLOW	YELLOW BALL 8A1, 8M1, 8M2, 8R1
19	BLUE	RED	PHASE 4 WALK	PEDESTRIAN WALK 4P1, 4P2	PHASE 8 WALK	PEDESTRIAN WALK 8P1, 8P2
20	RED	GREEN	PHASE 4 DON'T WALK	PEDESTRIAN DON'T WALK 4P1, 4P2	PHASE 8 DON'T WALK	PEDESTRIAN DON'T WALK 8P1, 8P2

```

DL      - DETECTOR LOOP
EC      - EXTENDED CALL LOOP
L       - DETECTOR LOOP LENGTH
W       - DETECTOR LOOP WIDTH
S       - SAW CUT LOOP TO CURB
T       - TERMINAL LENGTH
QP      - QUADRAPOLE LOOP

SDWBA   - SYSTEM DETECTOR WEST BOUND APPROACH
SDWBD   - SYSTEM DETECTOR WEST BOUND DEPARTURE
SDEBA   - SYSTEM DETECTOR EAST BOUND APPROACH
SDEBD   - SYSTEM DETECTOR EAST BOUND DEPARTURE
SDNBA   - SYSTEM DETECTOR NORTH BOUND APPROACH
SDNBD   - SYSTEM DETECTOR NORTH BOUND DEPARTURE
SDSBA   - SYSTEM DETECTOR SOUTH BOUND APPROACH
SDSBD   - SYSTEM DETECTOR SOUTH BOUND DEPARTURE

```

LOOP WIRE																		
6'	X	40'	QP	LOOP	=	(8*L)	+	(4*W)	+	(2*S)	+	(2*T)	+	5	=	349	+	2(S+T)
6'	X	50'	QP	LOOP	=	(8*L)	+	(4*W)	+	(2*S)	+	(2*T)	+	5	=	429	+	2(S+T)
6'	X	60'	QP	LOOP	=	(8*L)	+	(4*W)	+	(2*S)	+	(2*T)	+	5	=	504	+	2(S+T)

$$\begin{array}{lcl} 6' \times 40' \text{ QP LOOP} & = (3 \times L) + (2 \times W) + S & = 132 + S \\ 6' \times 50' \text{ QP LOOP} & = (3 \times L) + (2 \times W) + S & = 162 + S \\ 6' \times 60' \text{ QP LOOP} & = (3 \times L) + (2 \times W) + S & = 192 + S \end{array}$$

L = DETECTOR LOOP LENGTH (FROM PLAN)
W = DETECTOR LOOP WIDTH (FROM PLAN)
S = SAWCUT LENGTH FROM DETECTOR LOOP TO FACE OF CURB (FROM PLAN)
T = LOOP WIRE TERMINAL LENGTH FROM FACE OF CURB TO PULL BOX (FROM PLAN)

MULTI CONDUCTOR CABLE 5			
CONDUCTOR NUMBER	BASE COLOR	FUNCTION	FIELD CONNECTION
1	BLACK	PHASE 2 PPB	2PPB1 & 2PPB2
2	WHITE	COMMON	
3	RED	PHASE 4 PPB	4PPB1 & 4PPB2
4	GREEN	PHASE 6 PPB	6PPB1 & 6PPB2
5	ORANGE	PHASE 8 PPB	8PPB1 & 8PPB2

- 1/ IDENTIFY CONDUCTORS LISTED AS "115 VOLTS"
- 2/ WRAP RING 2 CABLE AT EACH SPLICE POINT WITH COLORED ELECTRICAL TAPE. THE IDENTIFICATION MARKING SHALL BE PROVIDED ON EACH RING 2 CABLE AT EACH SPLICE BOX AND LOCATED 6" BACK FROM THE END.
- 3/ IDENTIFY CONDUCTORS LISTED AS "PPB - LOW VOLTAGE" AT EACH SPLICE POINT. FIVE (5) CONDUCTOR CABLE SHALL BE 24 VOLTS AND USED FOR PUSH BUTTONS ONLY.
- 4/ CONTRACTOR SHALL MATCH CITY STANDARD WIRING SCHEME (2 RING) WITH EXISTING MCC25 AND NEW MCC20.

	CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP														
TITLE:															
TRAFFIC SIGNAL FUNCTIONS & DETECTORS 8th STREET & AVENIDA CESAR CHAVEZ															
DESIGN REVIEW COMMITTEE APPROVED MAY - 9 2000 DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL APPROVED AUG - 4 2000 CITY ENGINEER	LAST DESIGN UPDATE	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">MO./DAY/YR.</th> <th style="width: 50%;">MO./DAY/YR.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	MO./DAY/YR.	MO./DAY/YR.										
MO./DAY/YR.	MO./DAY/YR.														
CITY PROJECT NO.	623581	ZONE MAP NO.	SHEET OF 21 36												

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TYPICAL MASTARM DETAIL

3-SECTION TRAFFIC SIGNAL

5-SECTION TRAFFIC SIGNAL

MITERED ARM END (OPTIONAL)

POLE PLATE SLOT DETAIL

SECTION A-A

SECTION B-B

ANCHOR BOLTS
15', 20', 25' ARM: 1-1/2"x54"x6"
30', 35', 40' ARM: 1-1/2"x54"x6"

1" THICK MOUNTING PLATE

REMOVABLE CAP GALVANIZED STEEL OR CAST ALUMINUM

SEE NOTE 11

CABLE HOOK WELDED TO INSIDE OF SHAFT 1" FROM TOP

POLE TOP DETAIL

Diagram illustrating the components and dimensions of a traffic signal backplate assembly:

- 1-1/2" ACCESS HOLE
- POLE PLATE
- 1-1/2" PIPE
- NIPPLE
- SHURLOCK
- WASHERS
- LOCK NIPPLE
- HANDHOLE W/COVER
- BACK PLATE
- 1/2" CLR
- 8-3/4"
- TRAFFIC SIGNAL

The drawing consists of two views: a side view on the left and a plan view on the right.

Side View Labels:

- STAINLESS STEEL BANDS
- POLE PLATE
- 1-1/2" TEE
- 1-1/2" NIPPLE

Plan View Labels:

- HOLE IN POLE FIELD DRILLED FOR 0.63"x2" HEX BOLT
- (4)-HEX HEAD BOLTS
- 0.13"x1.50" COTTER PIN (HOLDS BOLT IN PLACE)
- 1/4" TYP
- PLAN

SECTION D-D

TUBE THICK
+ 0.06"

MASTARM

BACK PLATE AND
TRAFFIC SIGNAL

ELEVATION

D
OR

MASTARM

BACK PLATE AND TRAFFIC SIGNAL

TRAFFIC SIGNAL AND MASTARM

5° ROTATION

Diagram illustrating a handhole with a cover. The diagram shows a circular handhole with a cover. A weld is indicated in place, and a coupling of 1-1/2 inches is shown. The handhole is labeled "HANDHOLE WITH COVER".

SECTION
DETAIL I

NOTE:
ONE SIZE ARM CLAMP FOR
15' TO 25' MASTARMS AND
ONE SIZE FOR 30' TO 40'
MASTARMS WILL BE ALLOWED

FINISH:

☐ GALVANIZED☐ POWDER COATED

COLOR

FOR INFORMATION ONLY



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

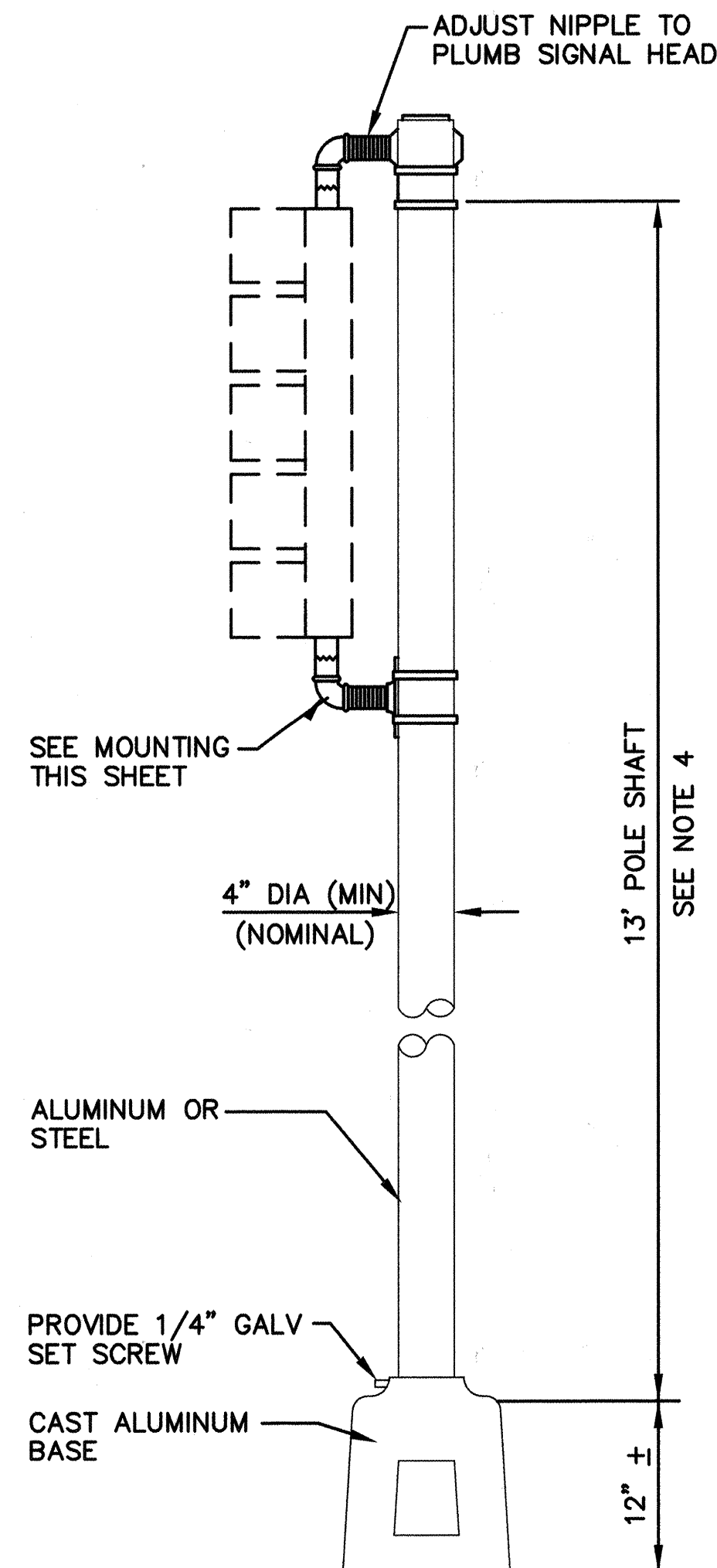
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MASTARM DETAILS, TYPE II STANDARD

DESIGN REVIEW COMMITTEE		CITY ENGINEER APPROVAL		LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED MAY - 9 2000 DESIGN REVIEW COMMITTEE		APPROVED AUG - 4 2000 CITY ENGINEER				
DESIGN REVIEW COMMITTEE		CITY ENGINEER				
ZONE MAP NO.		SHEET		OF		

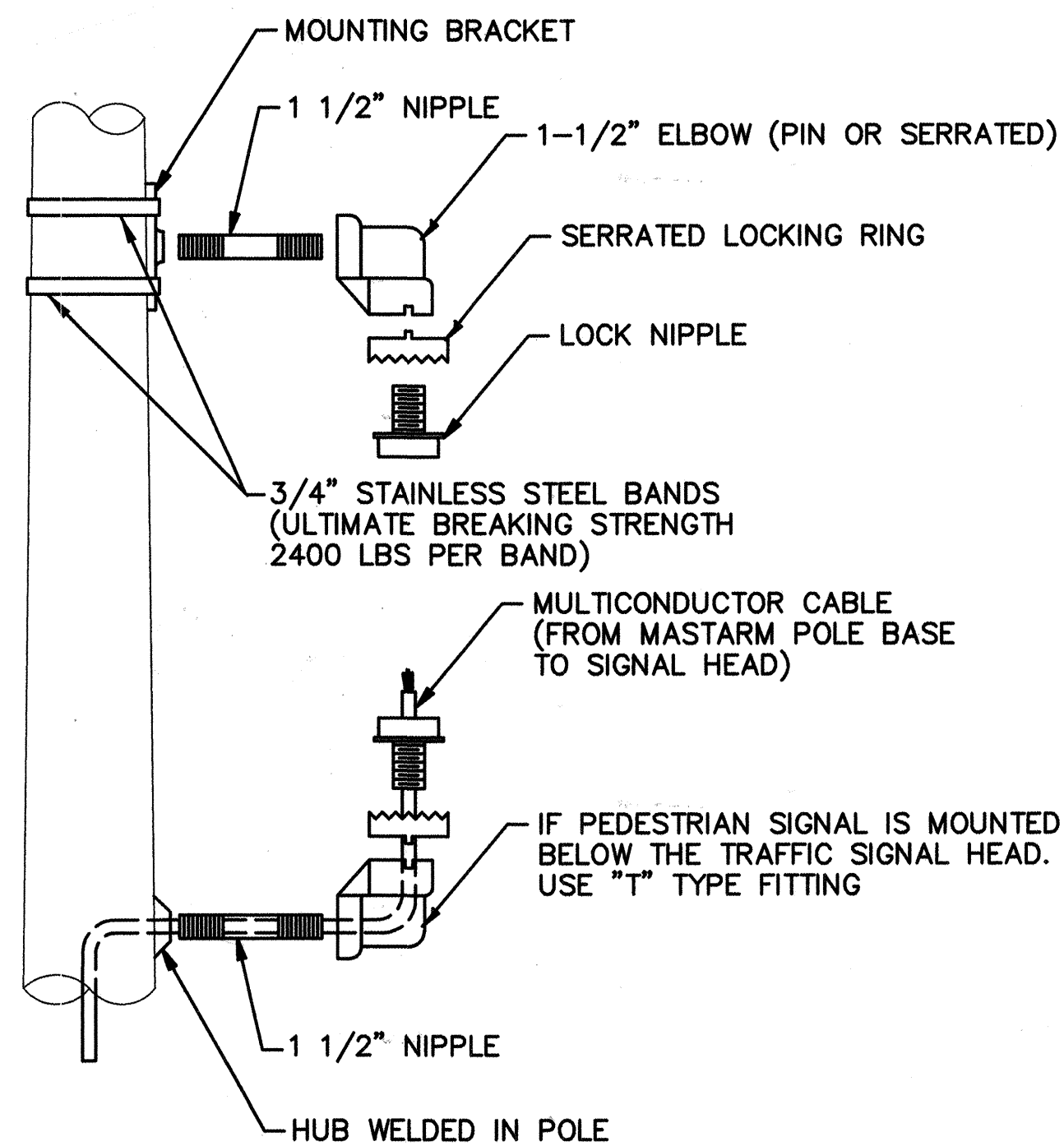
623581

OF
22 36

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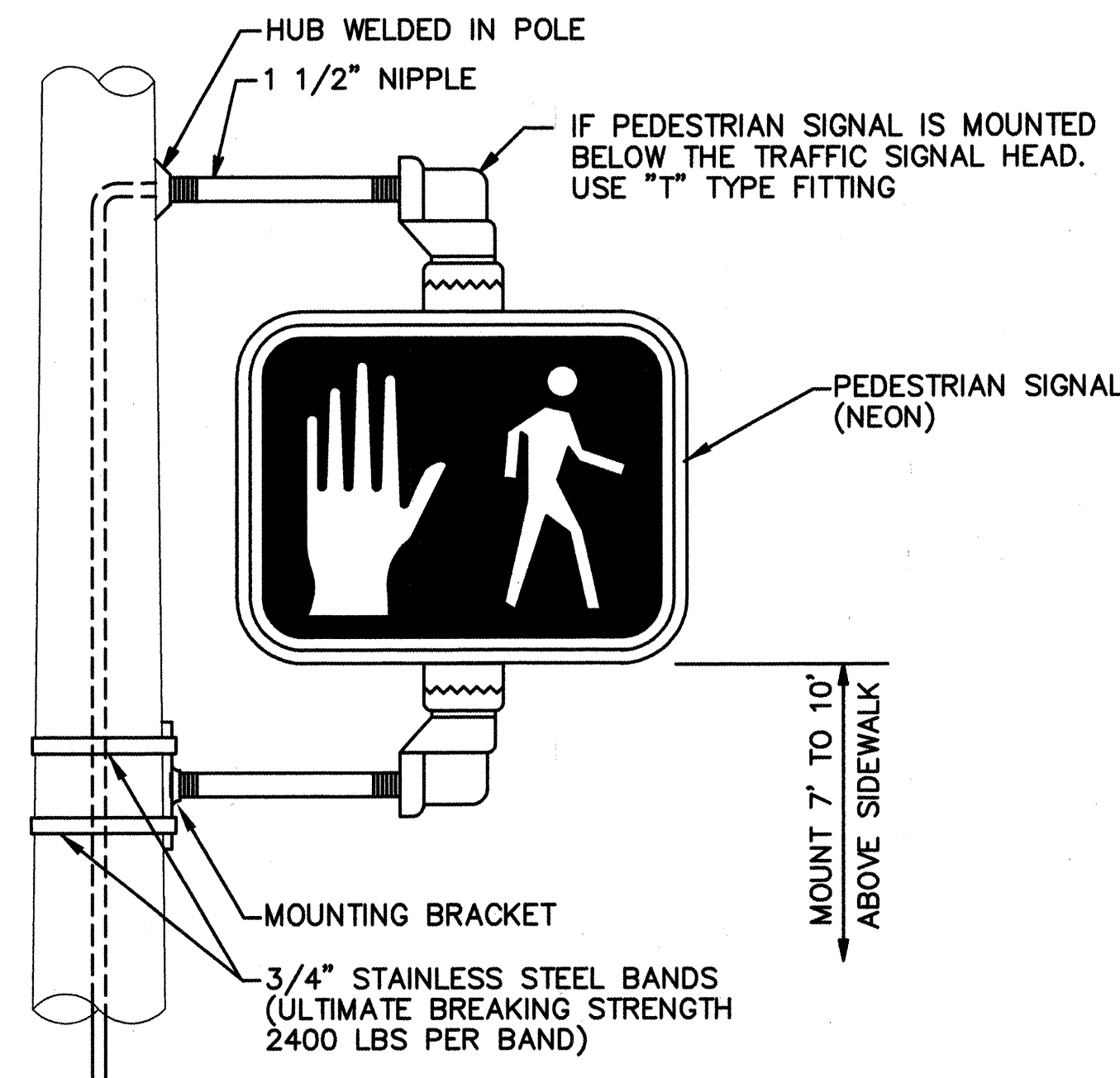


PEDESTAL POLE DETAILS

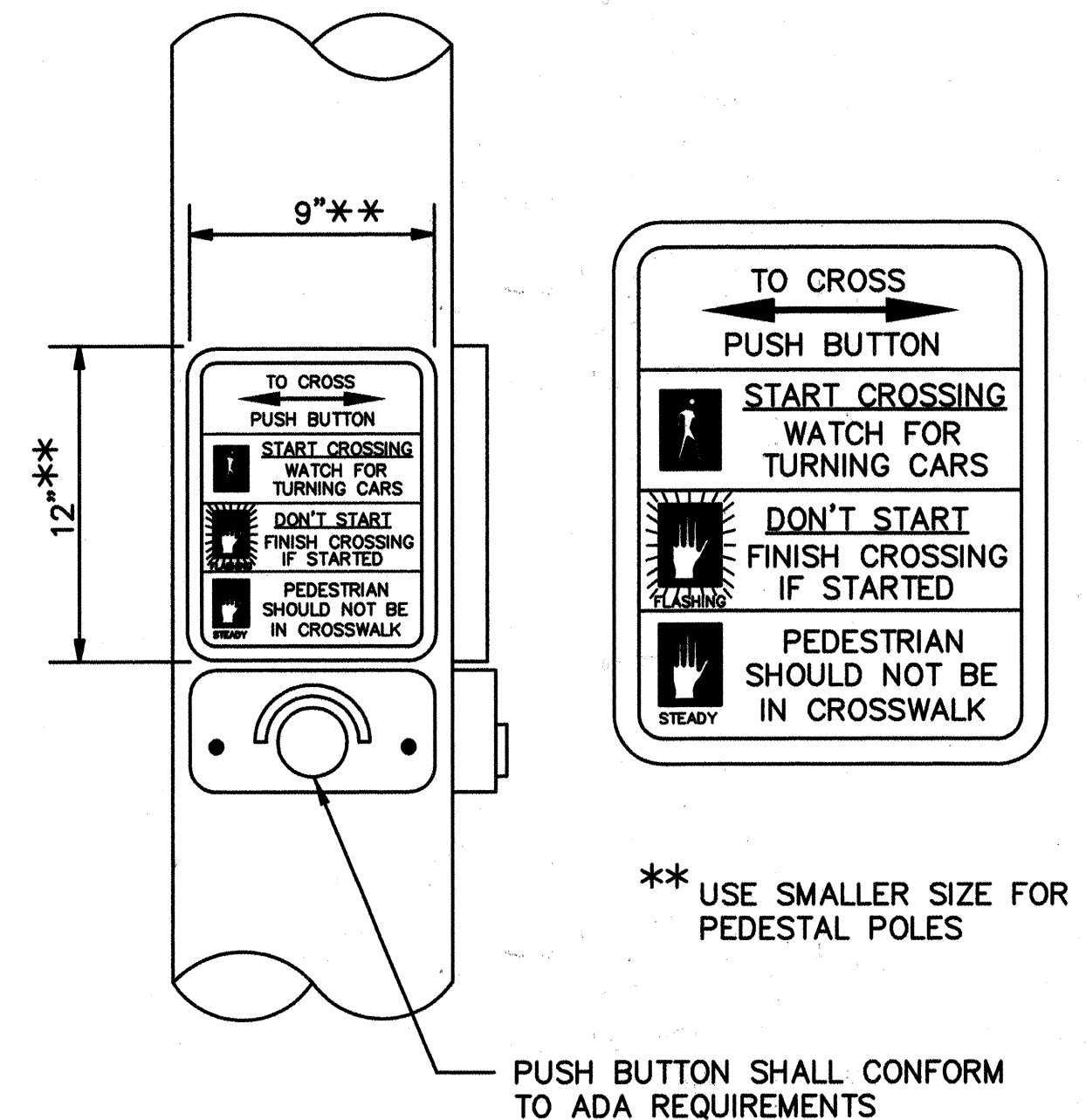


SIDE VIEW

MOUNTING DETAIL



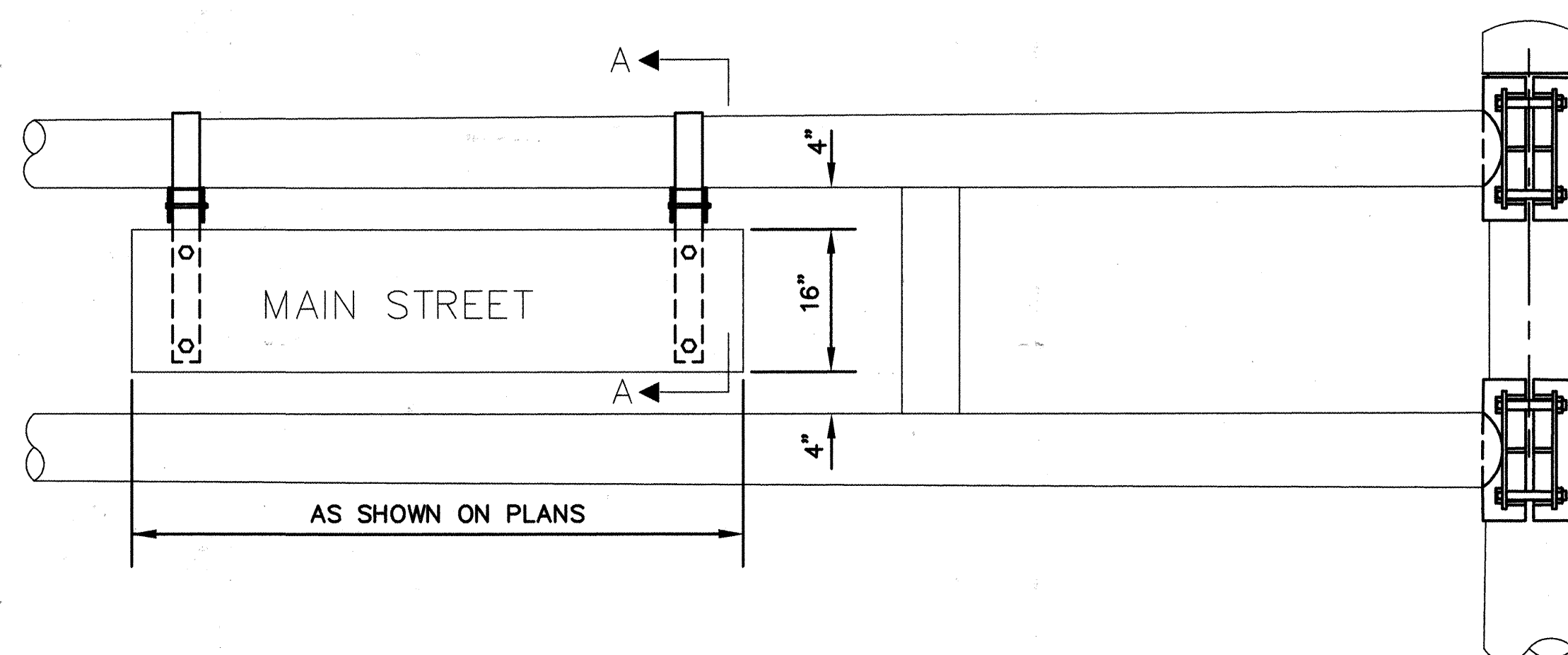
PEDESTRIAN SIGNAL DETAILS



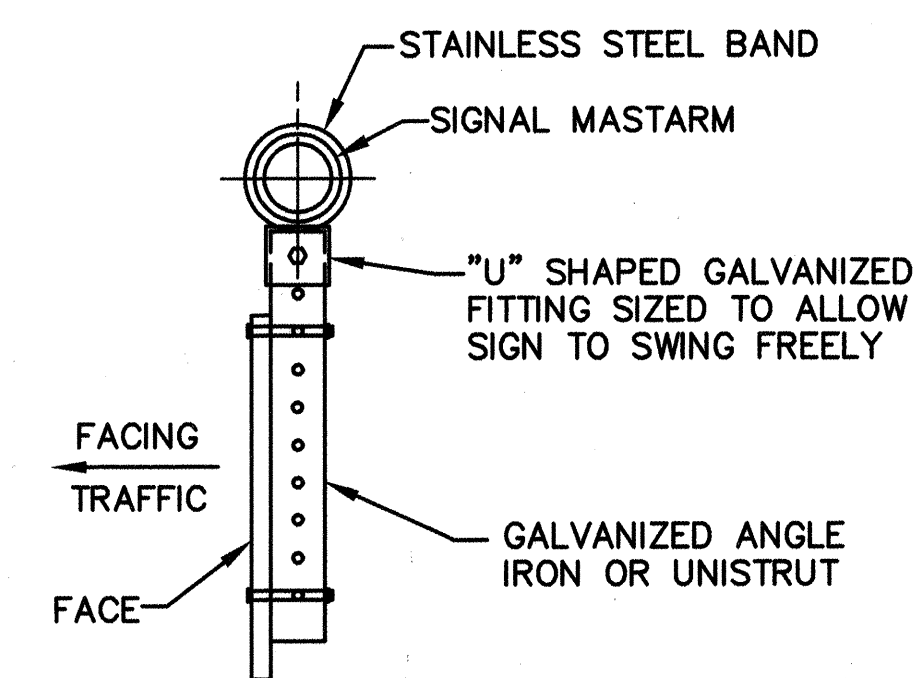
PUSH BUTTON DETAIL

NOTES:

- STREET NAME SIGNS REQUIRED AS SHOWN ON PLANS.
- STREET NAME SIGN SHALL BE 16" WIDE WITH 8" SERIES "C" LETTERS. SIGN SHALL BE NO MORE THAN 12 SQUARE FEET TOTAL AREA AND SHALL HAVE HIGH INTENSITY REFLECTIVE LEGEND, 1" BORDER AND BACKGROUND COLORS: WHITE ON GREEN, SIGN PANELS SHALL BE SINGLE SHEET 6061-T6 ALUMINUM .120 MINIMUM THICKNESS.
- PEDESTRIAN ACTUATED CROSSING SHALL BE A MAXIMUM OF 42" (1065 mm) ABOVE THE FINISHED PUBLIC SIDEWALK. A STABLE, FIRM, AND SLIP-RESISTANT AREA - 30"x48" (915 mm x 1220 mm) - SHALL BE PROVIDED TO ALLOW FOR A FORWARD OR A PARALLEL APPROACH TO THE CONTROLS. WHERE A PARALLEL IS PROVIDED, CONTROLS SHALL BE WITHIN 10" (255 mm) HORIZONTALLY OF AND CENTERED ON THE CLEAR GROUND SPACE.
- FOR INSTALLATIONS WITH ONLY PEDESTRIAN SIGNALS, CUT SHAFT TO 9'. USE 15' SHAFT FOR PEDESTAL POLES REQUIRING BOTH 5-SECTION SIGNAL ASSEMBLIES AND PEDESTRIAN SIGNALS.



STREET NAME SIGN DETAILS



SECTION "A-A"

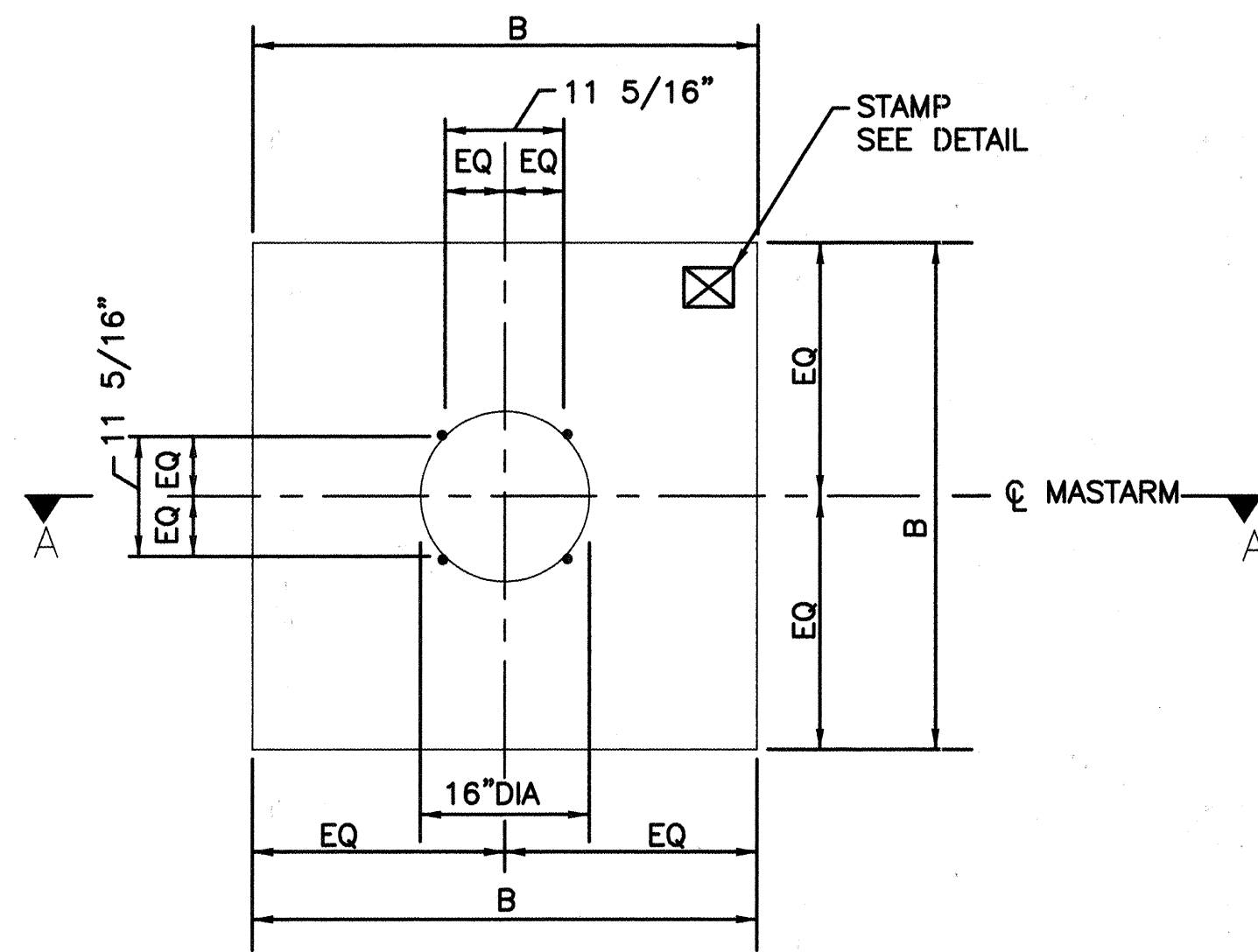
FINISH:

☐	GALVANIZED
☐	POWDER COATED
COLOR _____	

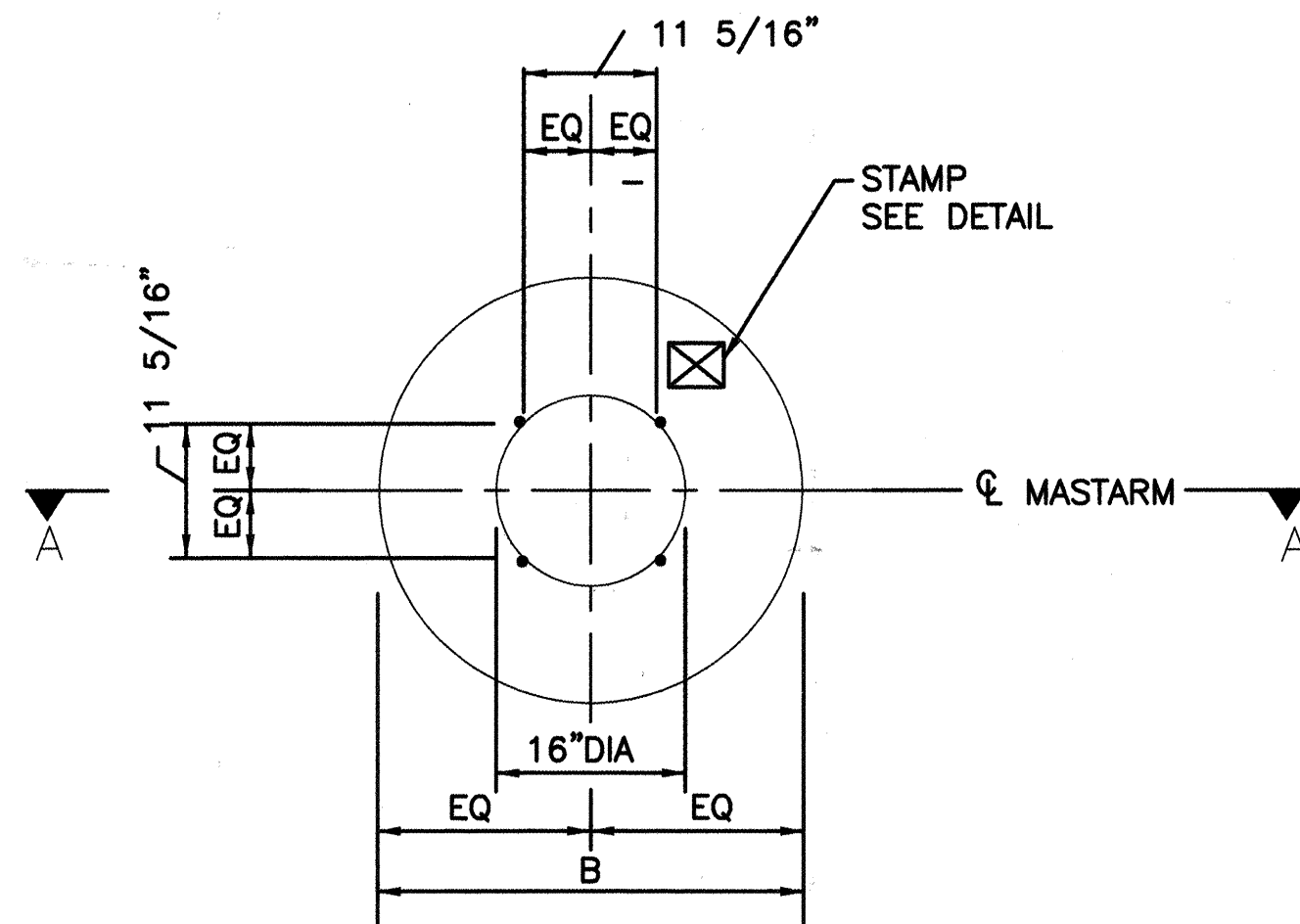
FOR INFORMATION ONLY

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: TRAFFIC SIGNAL MISCELLANEOUS DETAILS			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVE MAY - 9 2000 DESIGN REVIEW COMMITTEE	APPROVE AUG - 4 2000 CITY ENGINEER		
CITY PROJECT NO. 623581		ZONE MAP NO.	SHEET 23 OF 36

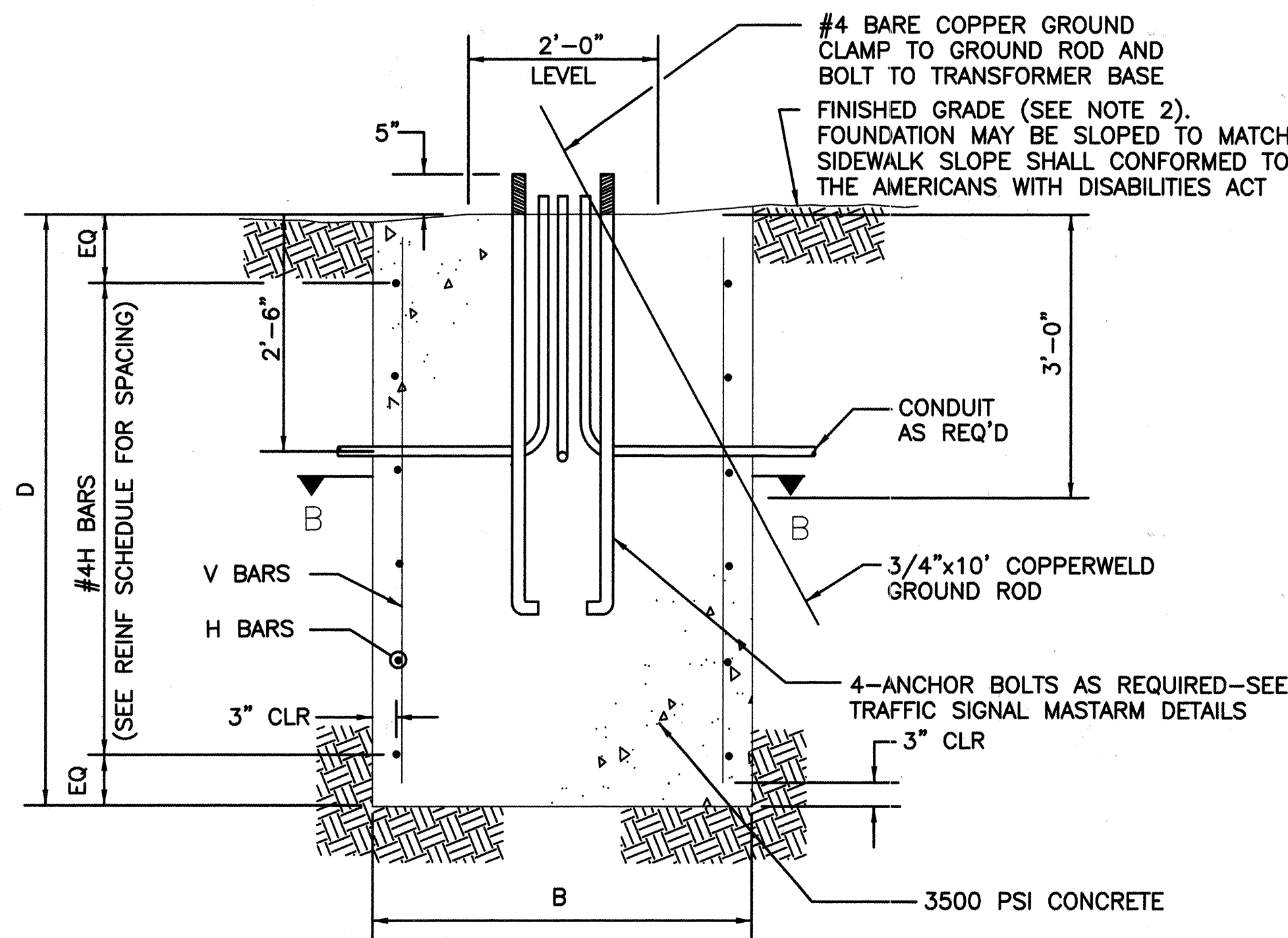
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				ACCEPTANCE BY	DATE
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				CORRECTED BY	DATE
				MICRO-FILM INFORMATION	
				RECORDED BY	DATE
				NO.	



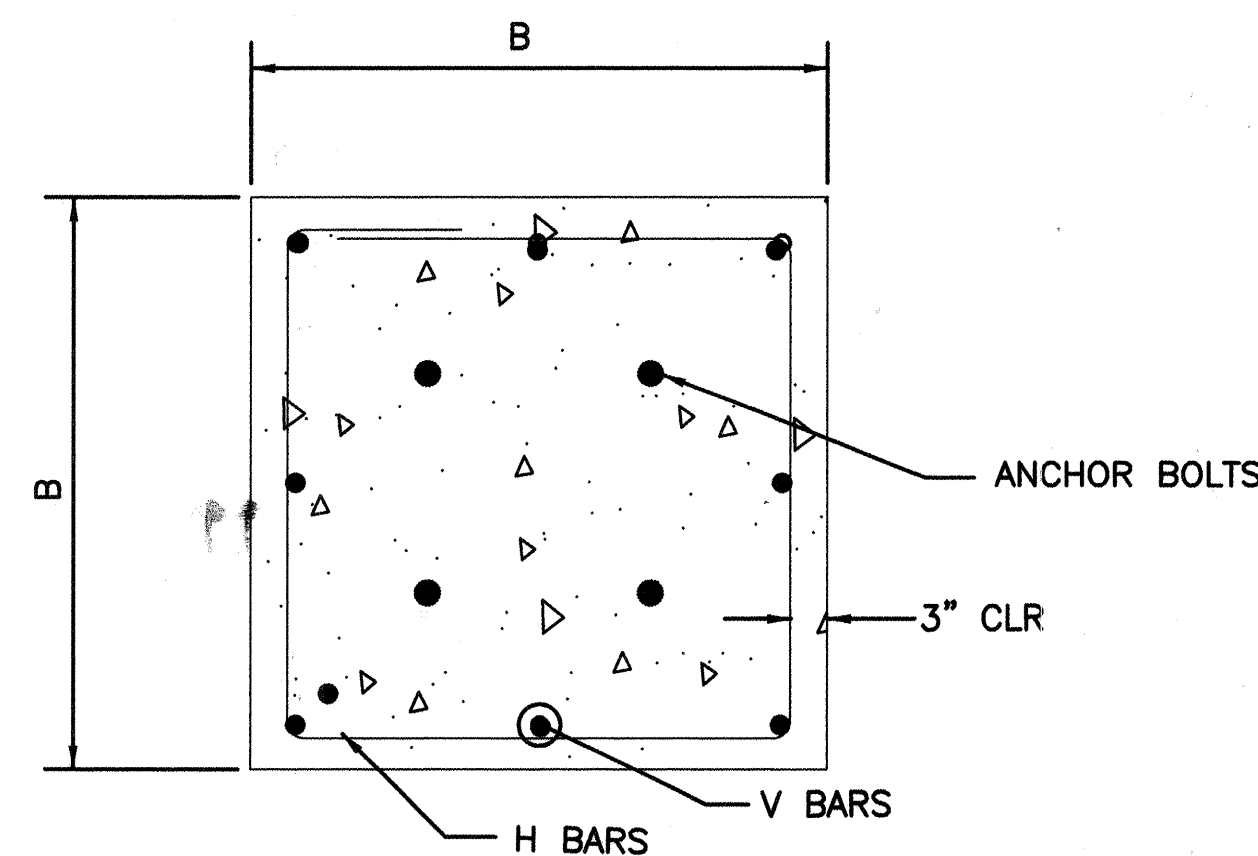
PLAN VIEW (SQUARE)
NO SCALE



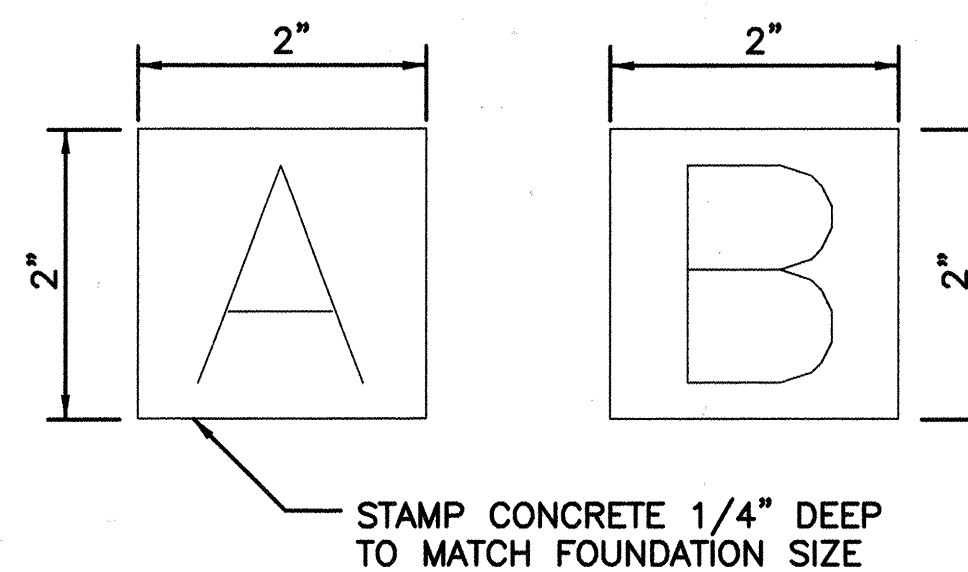
PLAN VIEW (ROUND)
NO SCALE



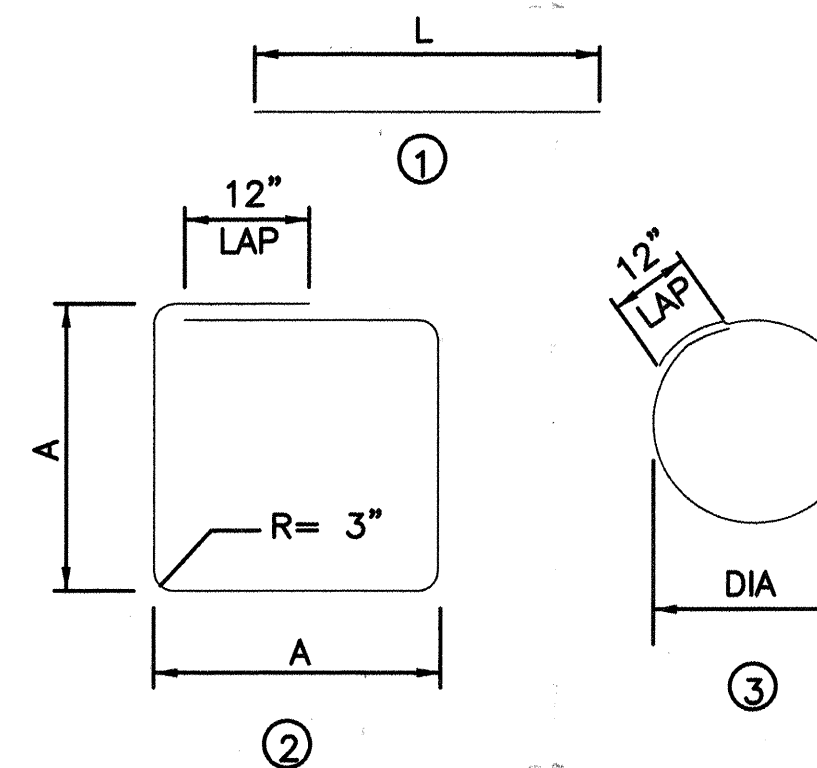
SECTION A-A (ROUND OR SQUARE)
NO SCALE



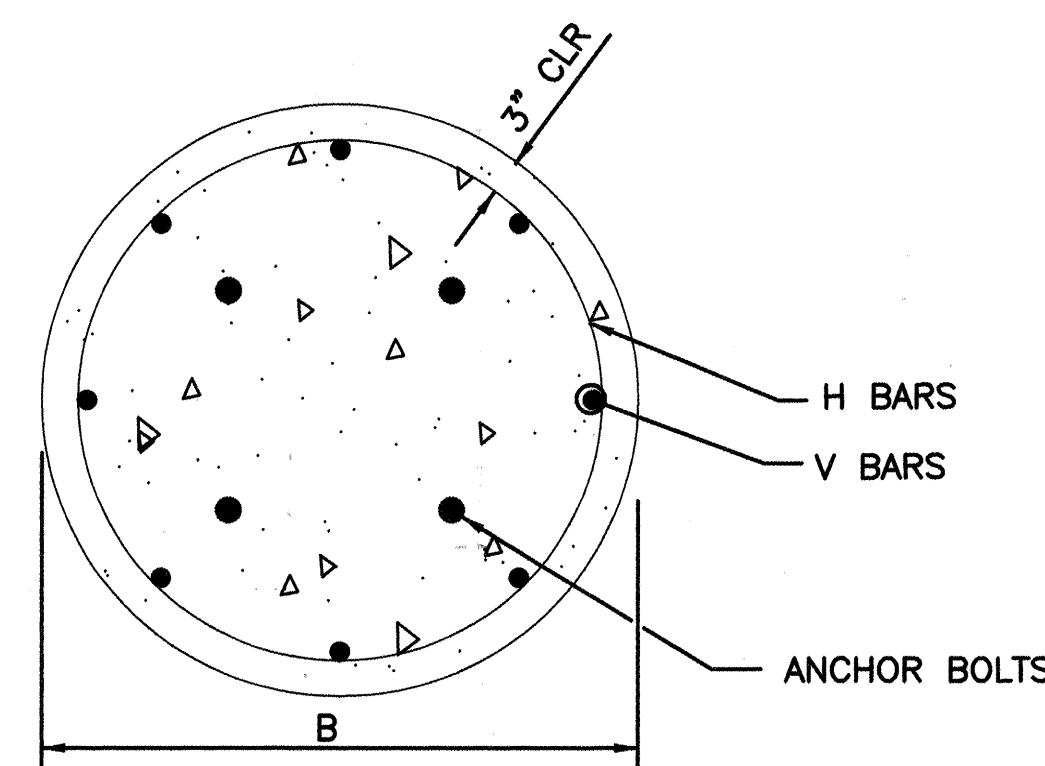
SECTION B-B (SQUARE)
NO SCALE



STAMP DETAIL
NO SCALE



BAR BENDING DIAGRAM



SECTION B-B (ROUND)
NO SCALE

FOUNDATION DIMENSIONS AND QUANTITIES							
FOUNDATION TYPE	SIGNAL ARM SPAN(FT)	DIMENSION		REINFORCING		REBAR POUNDS	3500 PSI CONCRETE CUBIC YARDS
		B (WIDTH)	D (DEPTH)	V BARS MARK	H BARS MARK		
TYPE A (SQUARE)	15	3'-6"	5'-0"	#4V2	#3H2	49.1	2.27
	20	"	"	"	"	"	"
	25	"	"	"	"	"	"
TYPE B (SQUARE)	30	4'-0"	6'-3"	#5V1	#3H1	82.6	3.70
	35	"	"	"	"	"	"
	40	"	"	"	"	"	"
TYPE A (ROUND)	15	2'-6"	8'-6"	#6V4	#3H4	98.1	1.55
	20	"	"	"	"	"	"
	25	"	"	"	"	"	"
TYPE B (ROUND)	30	3'-0"	11'-9"	#7V3	#3H3	179.7	3.08
	35	"	"	"	"	"	"
	40	"	"	"	"	"	"

ROUND SHAPE TO BE USED ONLY WHERE SPECIFICALLY NOTED ON PLANS OR WHEN APPROVED BY THE PROJECT MANAGER.

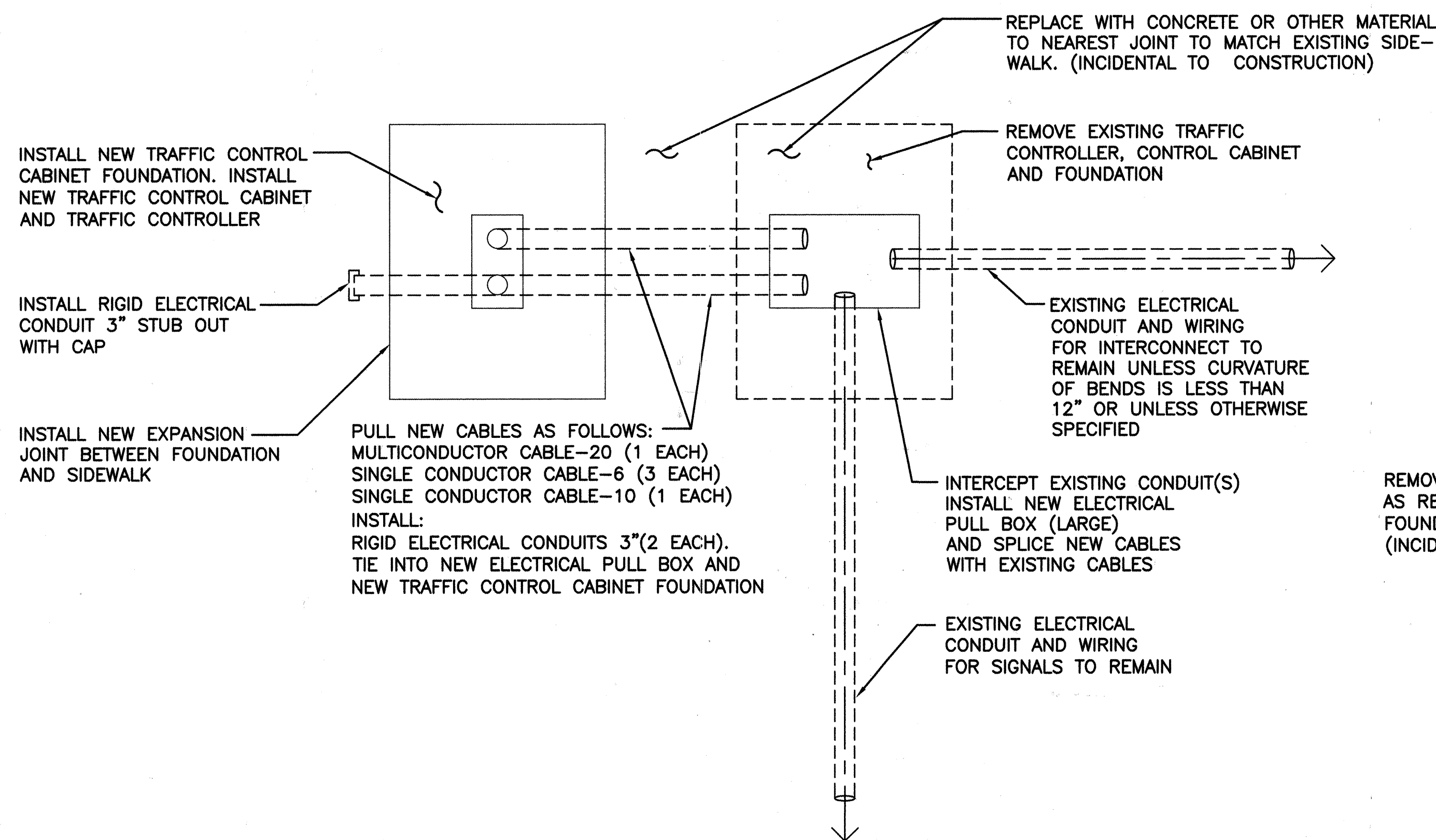
REINFORCING SCHEDULE (GRADE 60 BARS)					
MARK	QUANT	TYPE	SIZE	LENGTH	COMMENTS
#5V1	8	1	5	5'-9"	
#4V2	8	1	4	4'-6"	
#7V3	6	1	7	11'-3"	
#6V4	6	1	6	8'-0"	
#3H1	6	2	3	15'-4"	A = 42", TIES AT 14" OC
#3H2	5	2	3	13'-4"	A = 36", TIES AT 12" OC
#3H3	12	3	3	9'-3"	DIA = 30", TIES AT 12" OC
#3H4	9	3	3	7'-8"	DIA = 24", TIES AT 12" OC

TRAFFIC SIGNAL MASTARM FOUNDATION NOTES

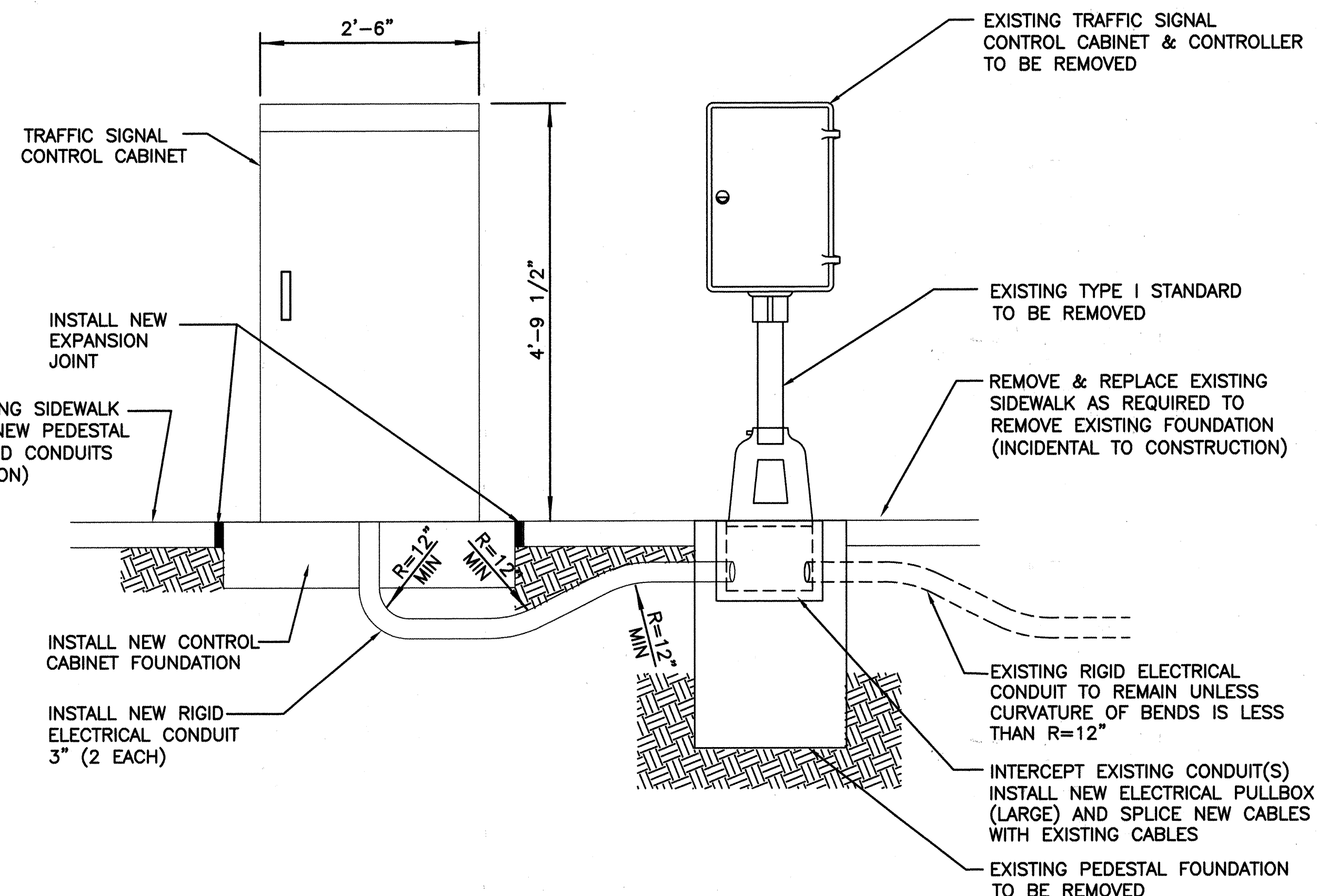
- REFER TO THE PLANS FOR LOCATIONS OF TRAFIC SIGNAL MASTARM FOUNDATIONS.
- FINISHED GRADE FOR THE FOUNDATIONS SHALL BE ESTABLISHED IN THE FIELD BY THE PROJECT MANAGER.
- THE FOUNDATIONS SHOWN HERE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT REVISION.
- CONCRETE SHALL BE 3500 PSI FOR EXTERIOR STRUCTURES. REFER TO TABLE 101.C OF THE SPECIFICATIONS.
- REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GRADE 60.
- THE TOP 6 INCHES OF THE FOUNDATION PEDESTAL SHALL BE FORMED TO THE DIMENSIONS SHOWN ON THIS SHEET TO FORM NEAT LINES. CONCRETE BELOW 6 LINES MAY BE CAST AGAINST THE EARTH.
- THE CONCRETE SHALL GAIN 80% OF THE DESIGN STRENGTH PRIOR TO INSTALLING THE TRAFFIC SIGNAL MASTARM.
- ALL FOUNDATIONS SHALL INCLUDE COPPERWELD GROUND RODS. ALL GROUND RODS SHALL BE 3/4" DIA X 10'-0" AND WILL BE CONSIDERED INCIDENTAL TO THE FOUNDATIONS BID ITEMS.
- ALL FOUNDATIONS SHALL BE STAMPED EITHER "A" OR "B" TO SHOW TYPE CONSTRUCTED (SEE STAMP DETAIL).

FOR INFORMATION ONLY

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: TRAFFIC SIGNAL FOUNDATION DETAILS TYPE II AND TYPE III STANDARDS			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVED MAY - 9 2000 DESIGN REVIEW COMMITTEE	APPROVED AUG - 4 2000 CITY ENGINEER		
CITY PROJECT NO. 623581		ZONE MAP NO.	SHEET 24 OF 36



PLAN VIEW



ELEVATION

TRAFFIC CONTROLLER AND CONTROL CABINET REMOVAL & REPLACEMENT DETAILS

NOTES:

1. THE LOCATION OF NEW TRAFFIC SIGNAL EQUIPMENT INCLUDING TRAFFIC CONTROL CABINETS, SPLICE CABINETS, MASTARM AND PEDESTAL FOUNDATIONS, ELECTRICAL PULL BOXES, CONDUITS, ETC. SHALL BE DETERMINED IN THE FIELD PRIOR TO STARTING EXCAVATIONS AT EACH INTERSECTION. IT MAY BE NECESSARY TO REMOVE EXISTING EQUIPMENT AND REPLACE NEW EQUIPMENT IN THE SAME POSITION.
2. SIDEWALKS OR OTHER EXISTING FEATURES SHALL BE REMOVED AND REPLACED IN KIND AS NECESSARY TO INSTALL NEW EQUIPMENT. REPLACE SIDEWALKS TO NEAREST JOINT.
3. NEW CONTROL CABINET AND CONDUITS SHALL BE INSTALLED PRIOR TO DISCONNECTING EXISTING CONTROL CABINET.
4. TRAFFIC ENGINEERING OPERATIONS PERSONNEL SHALL BE PRESENT WHENEVER SIGNALS ARE DISCONNECTED AND RECONNECTED.

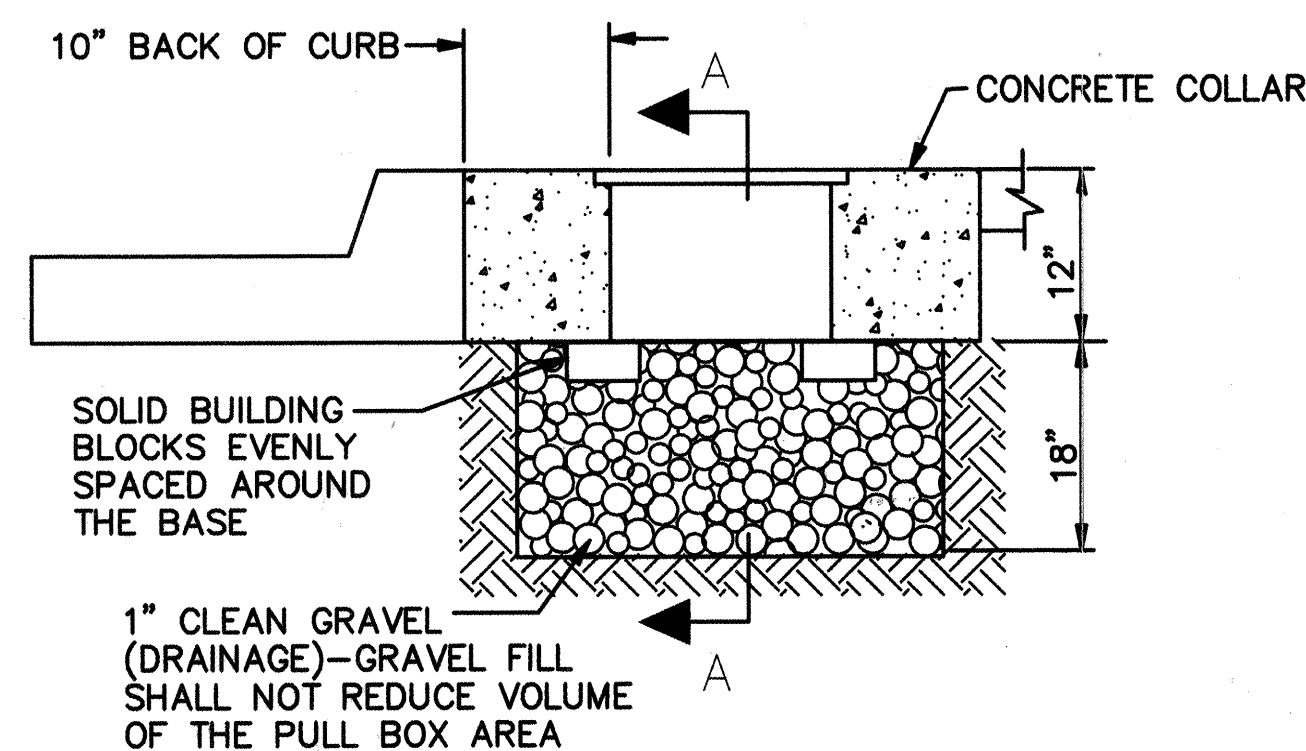
ESTIMATED CONDUIT AND WIRING QUANTITIES			
ITEM	LENGTH	QUANTITY	TOTAL
RIGID ELECTRICAL CONDUIT 3"	15'	2	30'
MULTICONDUCTOR CABLE-5	20'	1	20'
MULTICONDUCTOR CABLE-20	20'	2	40'
SINGLE CONDUCTOR CABLE-4	20'	3	60'
SINGLE CONDUCTOR CABLE-10	20'	1	20'
COMMUNICATION CABLE 6 PAIR	50'	1	50
LOOP LEAD-IN CABLE	20'	2	40'

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	NO.	BY	NO.	BY		
WORK	DATE						
DESIGNED BY	DATE						
FIELD ACCEPTANCE BY	DATE						
FIELD PLACEMENT BY	DATE						
REMARKS	DATE						
MICRO-FILM INFORMATION							
RECORDED BY	DATE						
NO.							

FOR INFORMATION ONLY

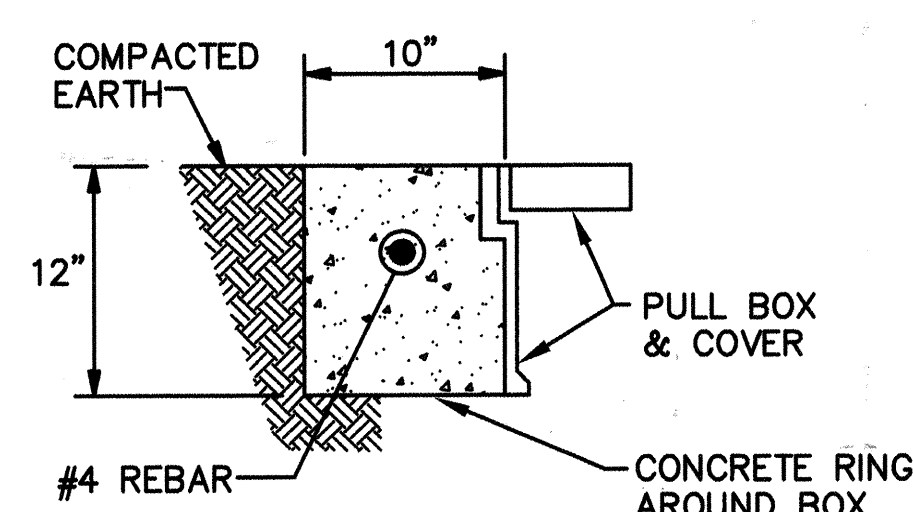
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: TRAFFIC SIGNAL CONTROL CABINET REPLACEMENT DETAILS			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVED MAY - 9 2000 DESIGN REVIEW COMMITTEE	APPROVED AUG - 4 2000 CITY ENGINEER		
CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
623581		26	36

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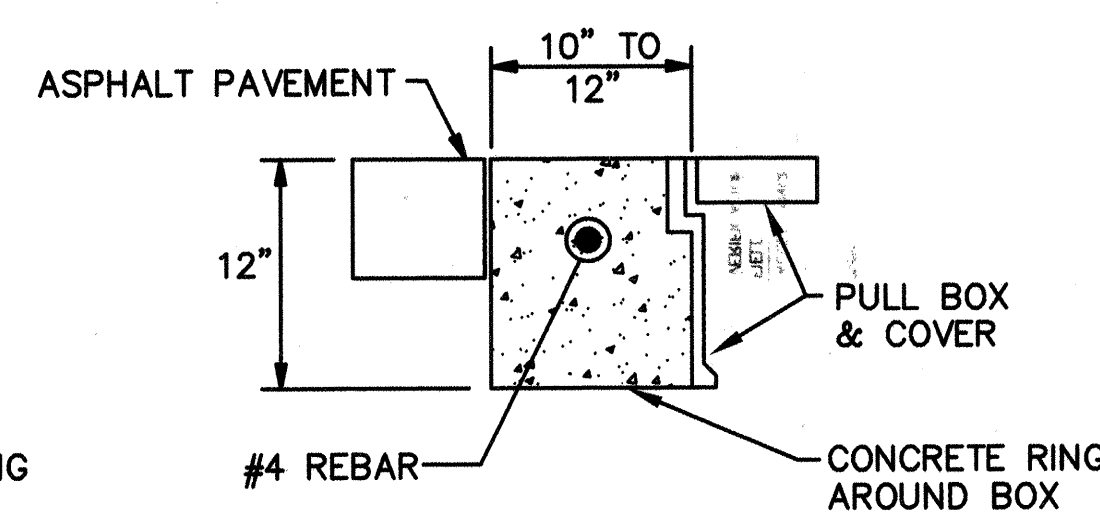


TYPICAL PULL BOX INSTALLATION

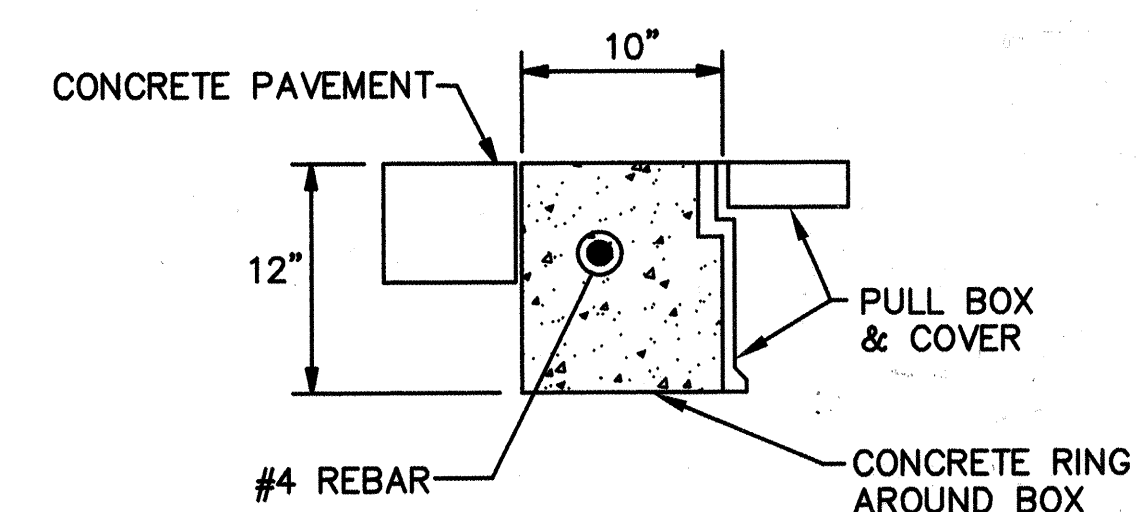
NOTE: SEE "CONCRETE COLLAR DETAIL"



IN COMPACTED EARTH



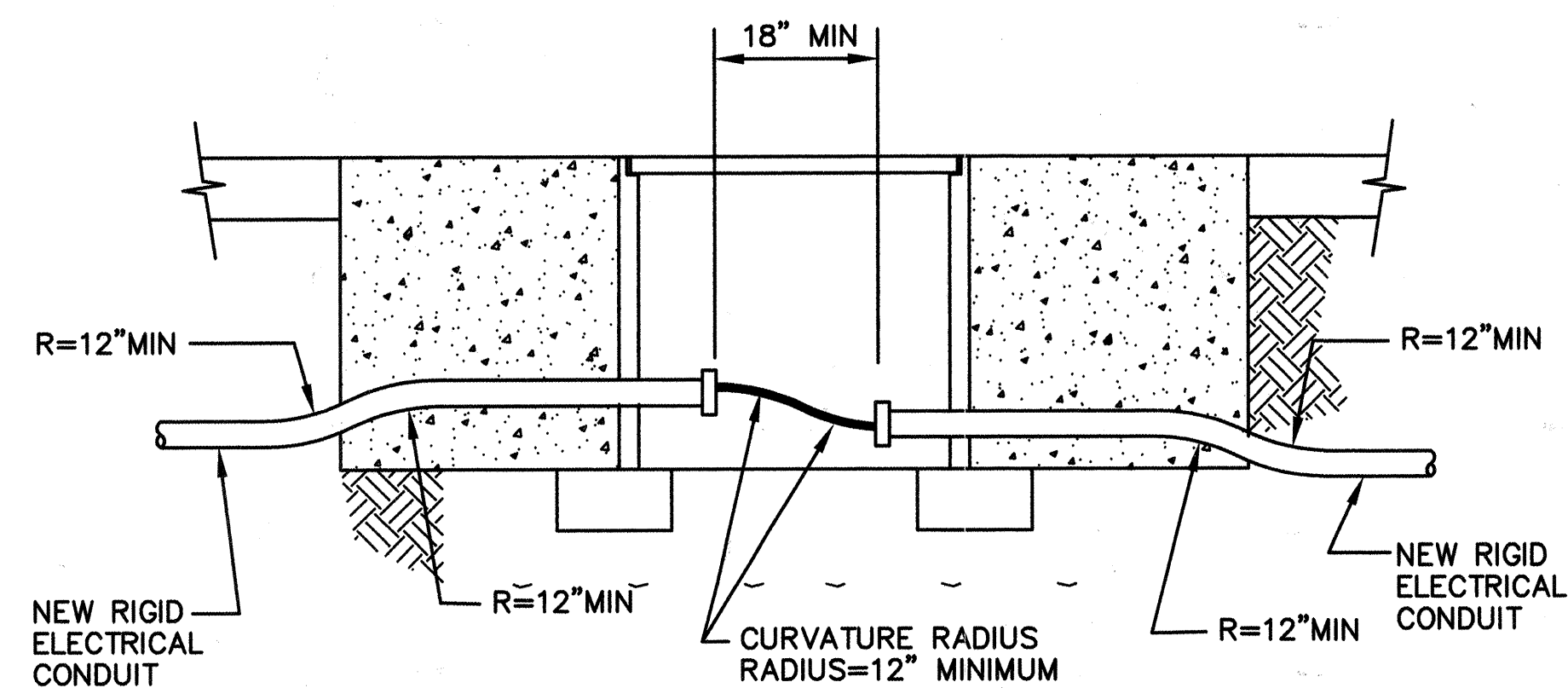
IN ASPHALT PAVEMENTS



IN CONCRETE PAVEMENTS

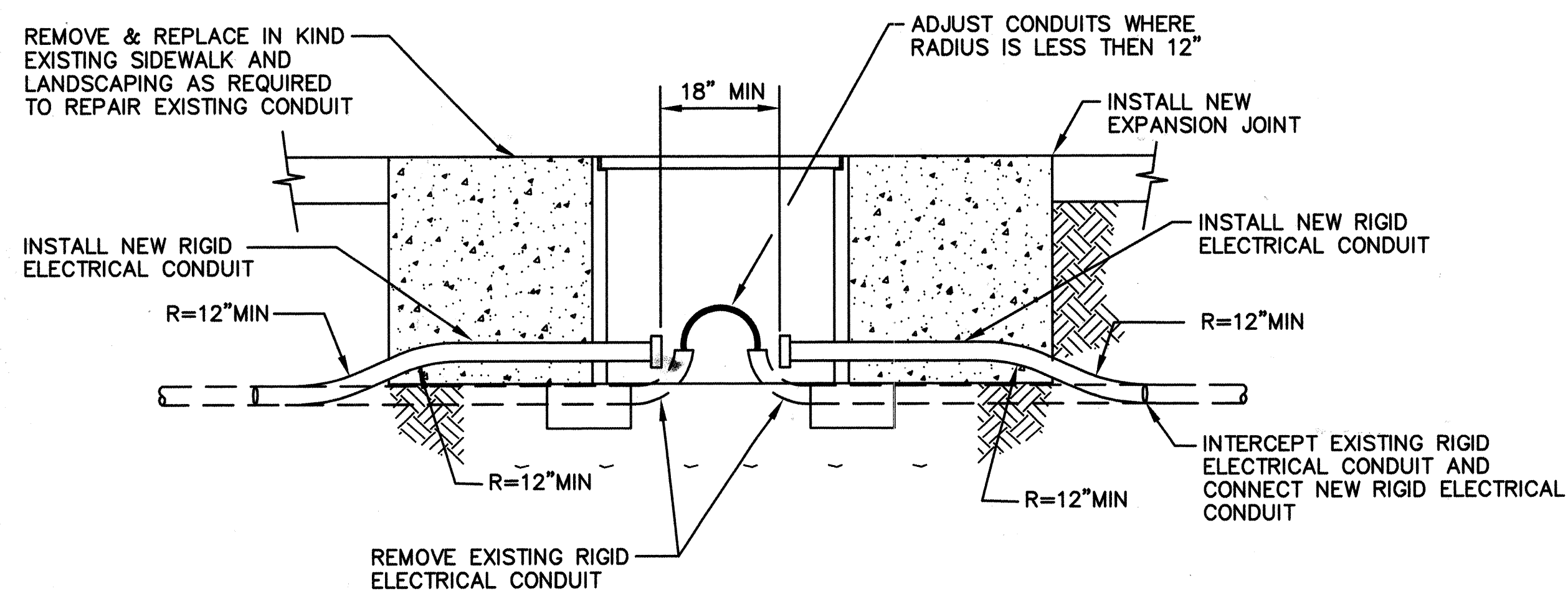
CONCRETE COLLAR DETAILS

NOTE: THE CONCRETE COLLAR FOR THE PULL BOXES WILL BE CONSIDERED INCIDENTAL TO THE PULL BOX BID ITEMS



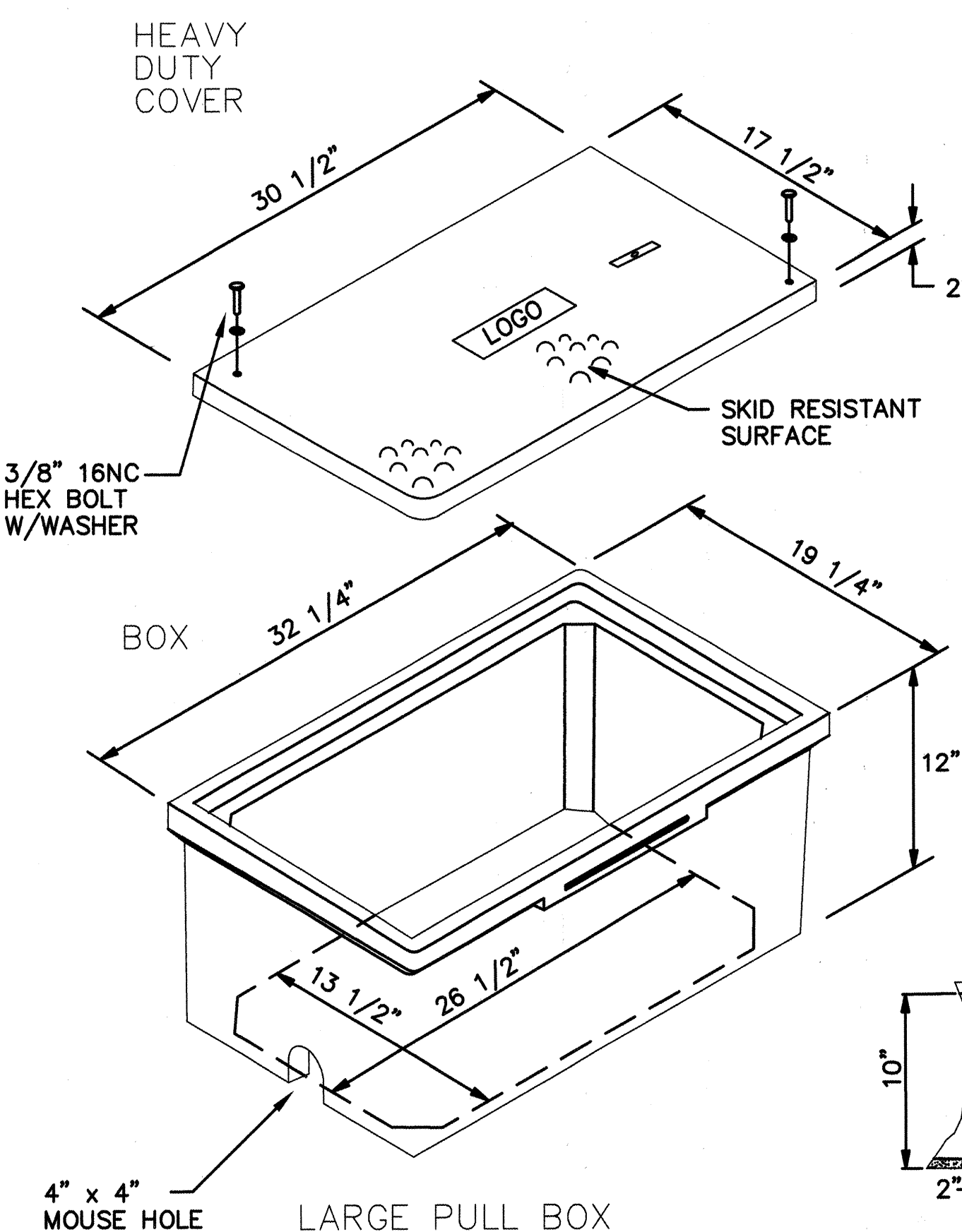
TRAFFIC SIGNAL PULL BOX (TYPICAL)

NEW CONDUIT INSTALLATION



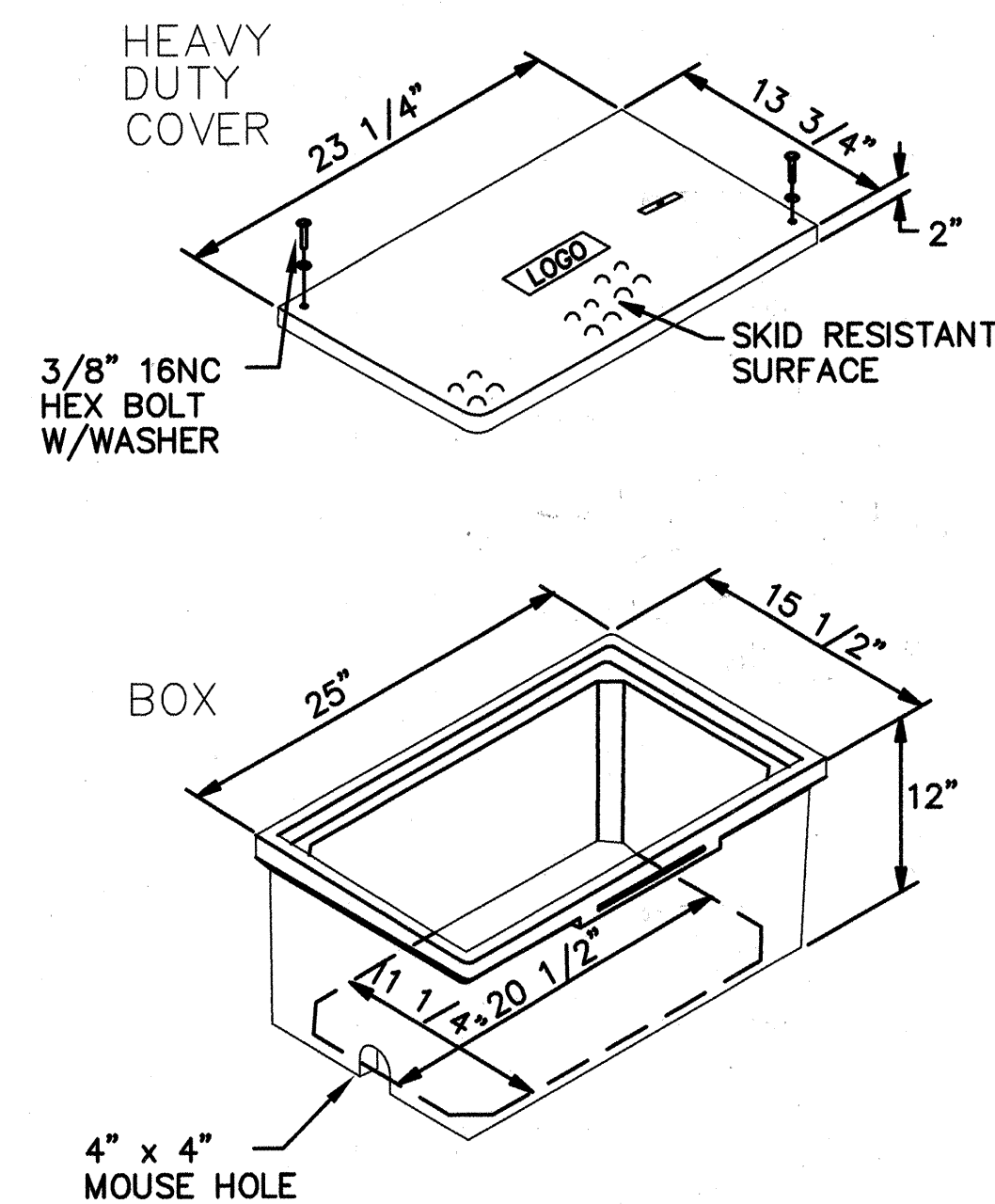
TRAFFIC SIGNAL PULL BOX (TYPICAL)

RETROFIT INSTALLATION



LARGE PULL BOX

PULL BOX DETAILS



STANDARD PULL BOX

NOTES FOR HEAVY DUTY REINFORCED POLYMER MORTAR PULL BOX AND COVERS

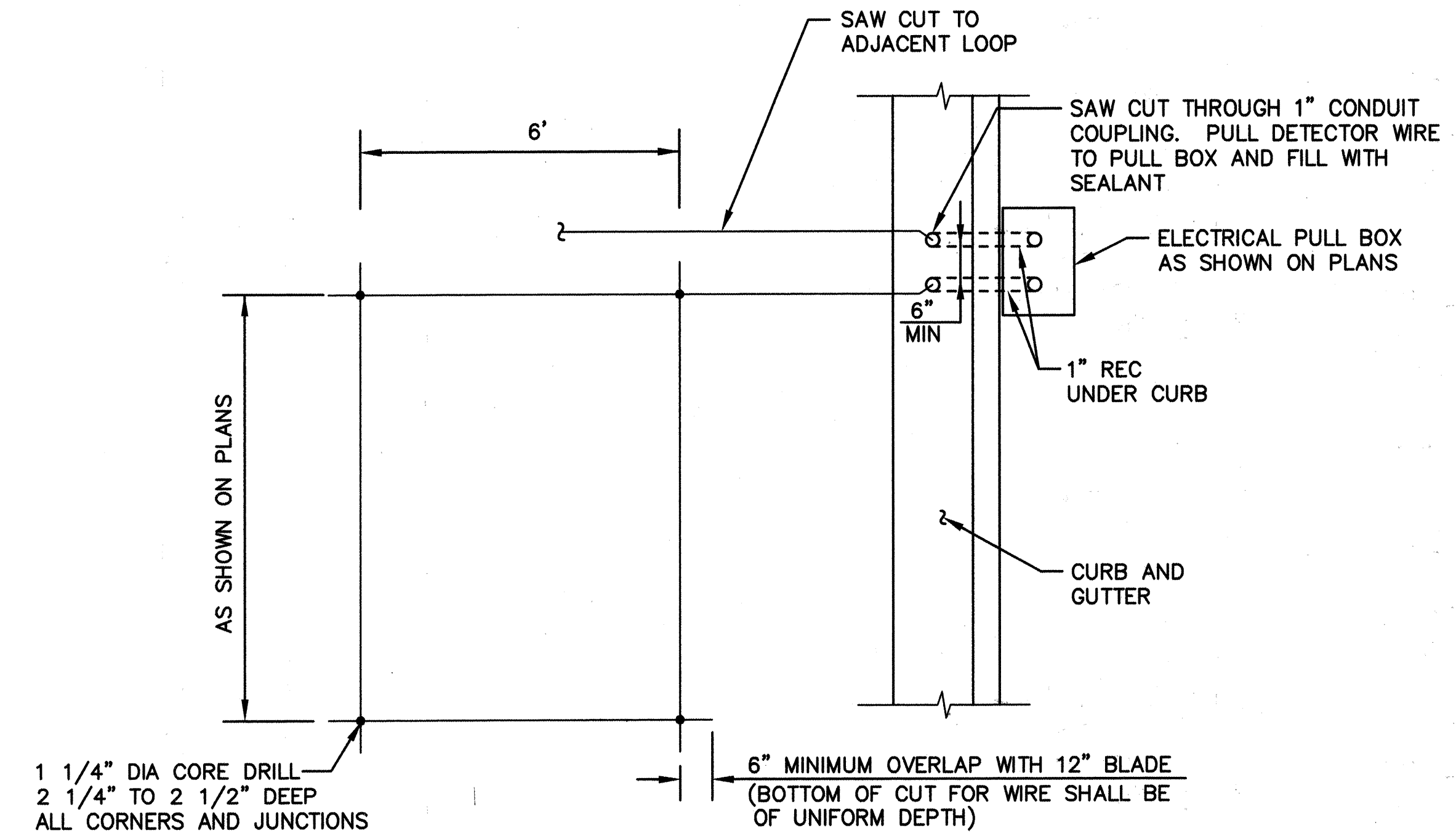
1. MATERIAL TO BE AN AGGREGATE CONSISTING OF SAND AND GRAVEL BOUND TOGETHER WITH A POLYMER AND REINFORCED WITH CONTINUOUS WOVEN GLASS STRANDS. THE MATERIAL MUST HAVE THE FOLLOWING MECHANICAL PROPERTIES: COMPRESSIVE STRENGTH - 11,000 PSI, TENSILE STRENGTH - 1,700 PSI, FLEXURAL STRENGTH - 7,500 PSI.
2. ALL PULL BOX COVERS SHALL BE HEAVY DUTY REINFORCED POLYMER MORTAR, HAVING A SERVICE LOAD OF 22,568 LBS OVER 10" SQUARE (225 PSI).
3. PULL BOX TYPE AND LOGO SHALL BE APPROVED BY THE PROJECT MANAGER.
4. THE DIMENSIONS OF THE PULL BOXES SHOWN ARE NOMINAL DIMENSIONS AND MAY VARY AS TO THE MANUFACTURER'S RECOMMENDATIONS. ALL DIMENSIONS SHALL BE VERIFIED BY THE PROJECT MANAGER.
5. ELECTRICAL PULL BOX (STANDARD) SHALL BE A HEAVY DUTY REINFORCED POLYMER MORTAR PULL BOX AND COVER MEASURING 13 3/4" x 23 1/4" x 2".

FOR INFORMATION ONLY

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: TRAFFIC SIGNAL PULL BOX DETAILS	
DESIGN REVIEW COMMITTEE MAY - 9 2000 DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL AUG - 4 2000 CITY ENGINEER
DESIGNED BY COA DATE 8-97	CHECKED BY COA DATE 8-97
GITY PROJECT NO. 623581	
ZONE MAP NO.	
SHEET 27 OF 36	

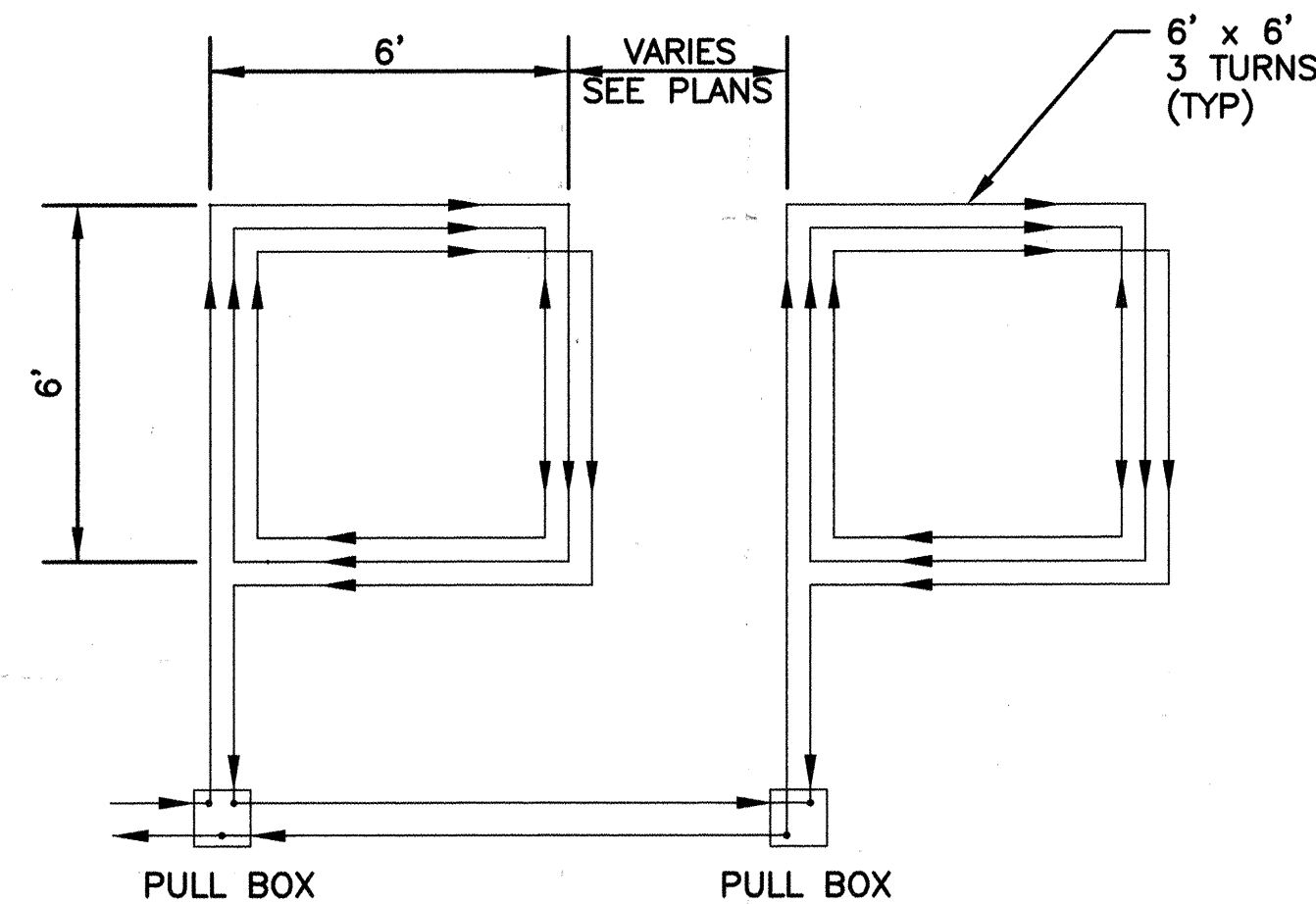
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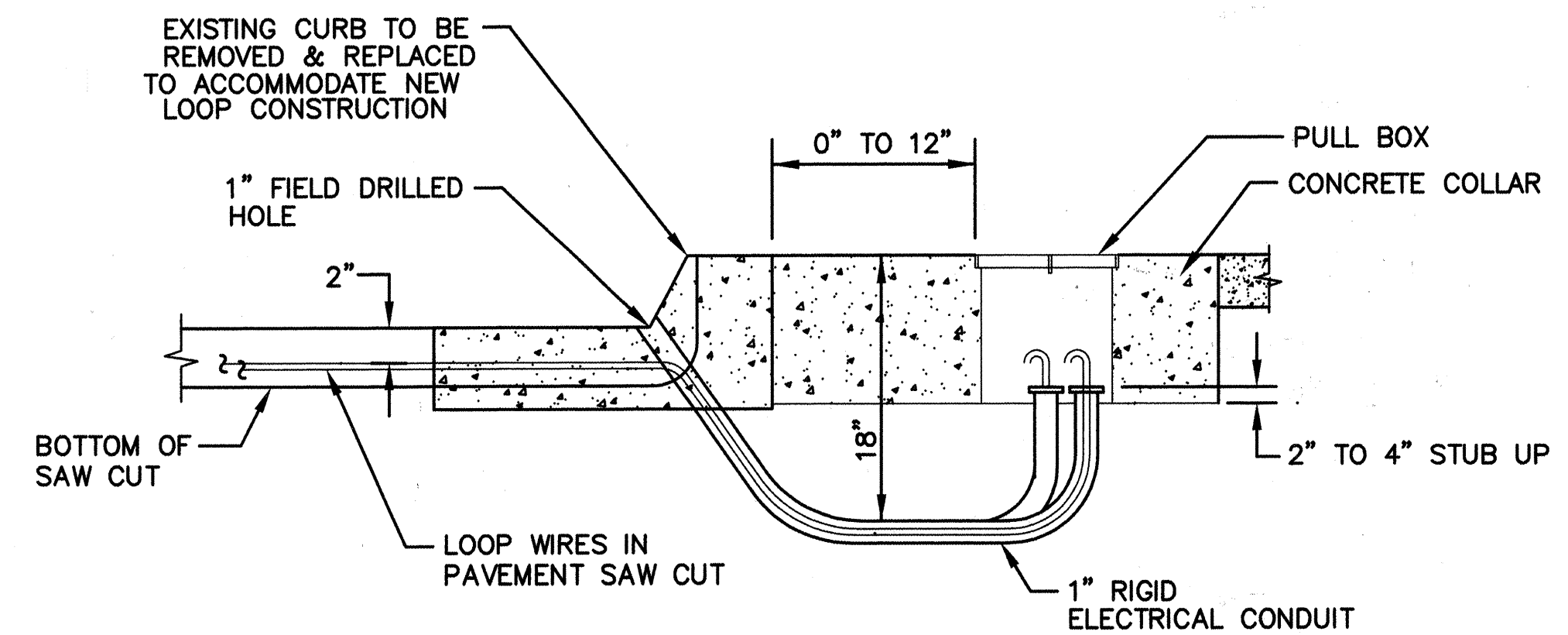


SECTION A-A

PLAN VIEW

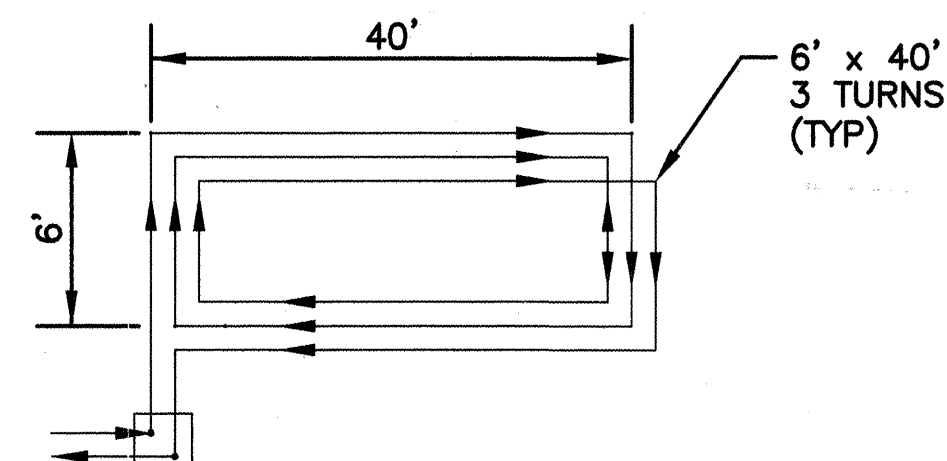


SERIES LOOP WIRING DETAIL



SECTION

LOOP WIRE TERMINATION DETAILS



LARGE RECTANGULAR LOOP WIRING DETAIL

TYPICAL LOOP WIRE PLACEMENT DETAILS

LOOP DETECTOR NOTES

1. ALL LOOP DETECTOR WIRE SHALL BE #14 AWG STRANDED COPPER WIRE WITH CROSS-LINKED POLYETHYLENE INSULATION (INDUSTRY TYPE XHHW) CONFORMING TO THE REQUIREMENTS OF IMSA SPECIFICATIONS #51-3 1984. BACKER ROD SHALL NOT BE USED IN THE INSTALLATION OF LOOP (EXCEPT PIECES LESS THAN 12" WHICH MAY BE PLACED OVER THE WIRE AT THE SAW CUT CORNERS TO HOLD THE WIRE. A 1/4" LAYER OF SEALANT SHALL BE PLACED IN THE SAW CUT BEFORE PLACEMENT OF THE WIRE AND THEN THE WIRE SHALL BE ENCAPSULATED WITH SEALANT. HOT-MELT RUBBERIZED ASPHALT LOOP DETECTOR SEALANT MANUFACTURED BY CRAFCO SHALL AN ACCEPTABLE SEALANT ALTERNATE.
2. ALL LOOP LEAD IN CABLES SHALL BE TAGGED AT CABINET TO IDENTIFY. EACH CABLE BY LOOP AND PHASE NUMBER.
3. GROUND LOOP LEAD IN CABLE SHIELDING IN CONTROL CABINET.
4. SEPARATE 1" RIGID ELECTRICAL CONDUITS ARE REQUIRED FOR EACH PAIR OF DETECTOR WIRES.

FOR INFORMATION ONLY

	CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: TRAFFIC SIGNAL LOOP DETECTOR DETAILS				
DESIGN REVIEW COMMITTEE APPROVED MAY - 9 2000 DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL APPROVED AUG - 4 2000 CITY ENGINEER	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
CITY PROJECT NO. 623581		ZONE MAP NO.	SHEET 28	OF 36



1. TRAFFIC SIGNAL MANHOLE TO BE CONSTRUCTED IN AREAS NOT NORMALLY ACCESSIBLE TO VEHICULAR TRAFFIC.

[illegible]



☐	12 GA HD GALVANIZED SHEET STEEL
☐	POWDER COATED
☐	14 GA #304D STAINLESS STEEL SHEET
☐	POWDER COATED COLOR:
☐	NATURAL
☐	0.125" ALUMINUM SHEET
☐	POWDER COATED COLOR:
☐	ANODIZED

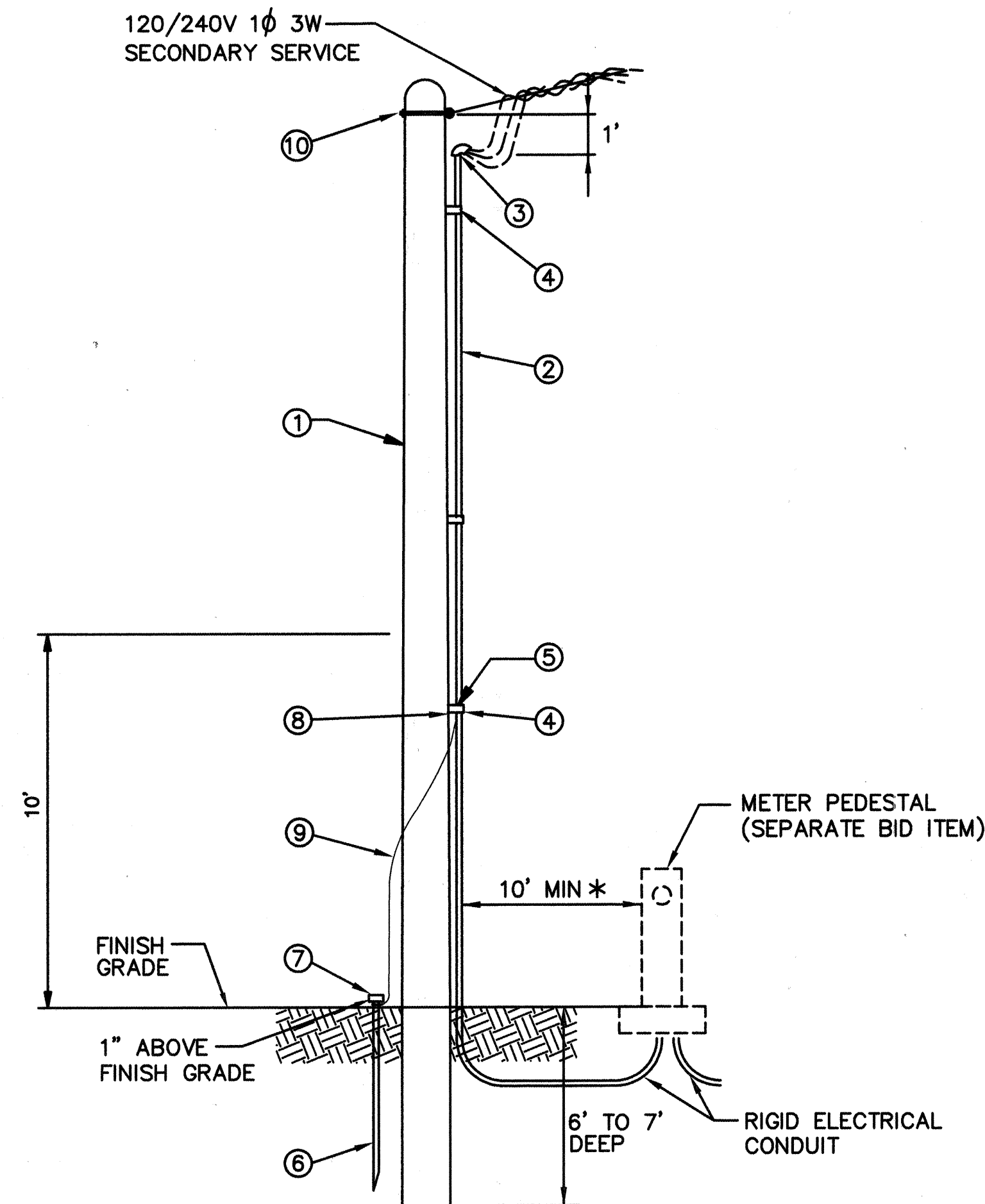
☐ WHITE ☐ RANCH GREEN

☐ MINT GREEN ☐ OTHER _____

☐ CAMEL

1. SPLICE CABINET SHALL BE UL LISTED "INDUSTRIAL CONTROL PANEL" PER UL 508.
2. CONSTRUCTION SHALL BE NEMA 3R AND 12, RAIN TIGHT AND DUST TIGHT. ELECTRICALLY WELDED AND REINFORCED WHERE REQUIRED.
3. ALL NUTS, BOLTS, SCREWS AND HINGES SHALL BE STAINLESS STEEL. ELECTRICALLY WELDED AND REINFORCED WHERE REQUIRED.
4. NUTS, BOLTS, AND SCREWS SHALL NOT BE VISIBLE FROM OUTSIDE OF SPLICE CABINET.
5. PHENOLIC NAME PLATES SHALL BE PROVIDED AS REQUIRED.
6. ALL POWDER COATED CABINETS SHALL HAVE A CORROSION RESISTANT COATING WHICH INCLUDES A FIVE STEP DIP TANK METAL PREPARATION PROCESS:
 - A. ALKALINE CLEANER 160° F.
 - B. CLEAR WATER RINSE.
 - C. IRON PHOSPHATE APPLICATION 150°.
 - D. CLEAR WATER RINSE.
 - E. INHIBITIVE RINSE TO SEAL PHOSPHATED SURFACES 120°.FINISHED WITH AN ELECTROSTATICALLY APPLIED DRY POLYESTER POWDER COATING THEN BAKED @ 380° TO CURE.
7. FOUNDATIONS, INCLUDING EXCAVATION, CONCRETE AND ANCHOR BOLTS, COMPLETE IN PLACE AND BACK FILLED, SHALL BE CONSIDERED INCIDENTAL TO THE SPLICE CABINET.

[illegible]



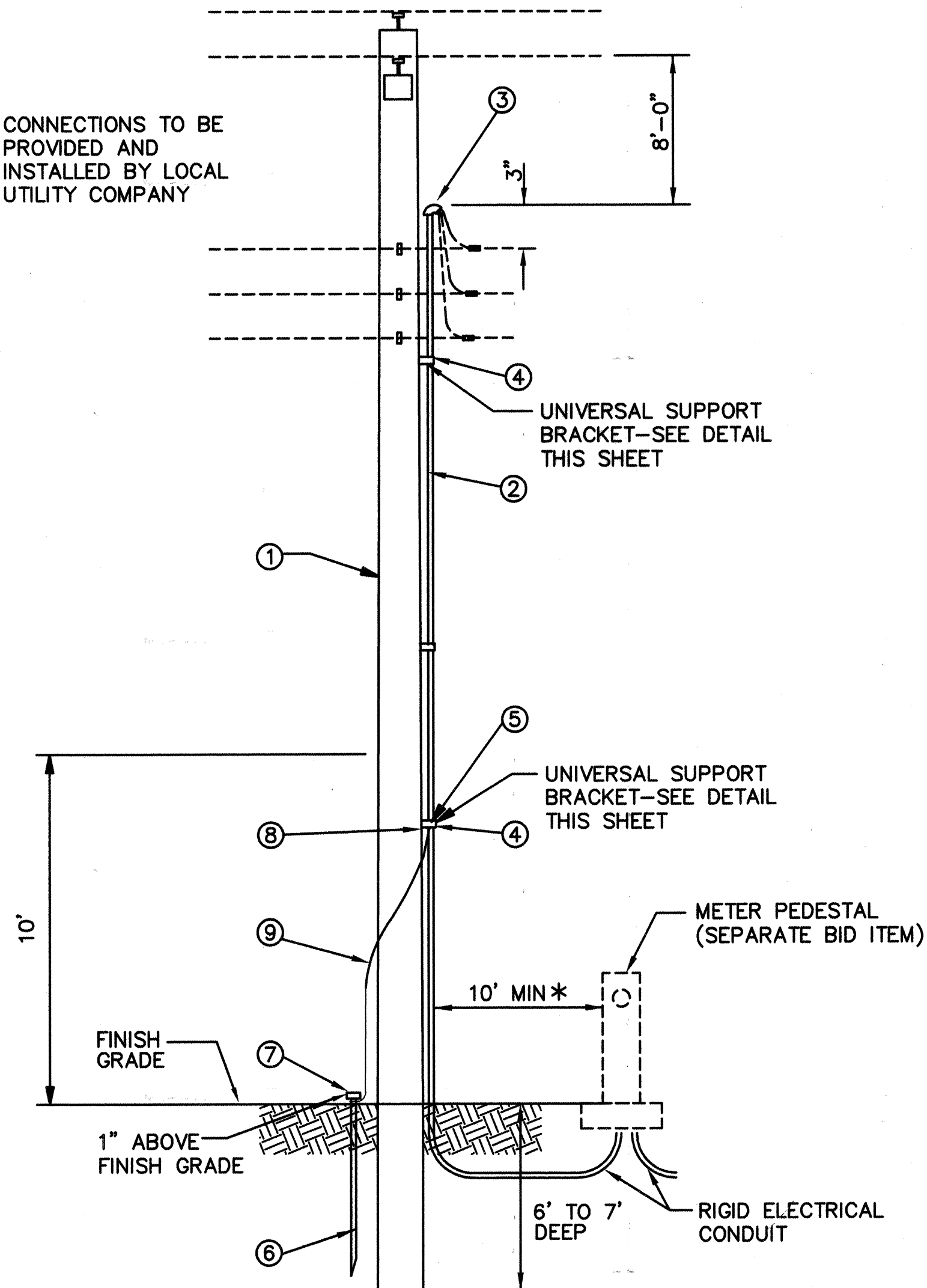
MATERIAL LIST

- | | | |
|---|-----|-----------------------------------|
| ① | 1 | 25' TREATED POLE |
| ② | 30' | 2" GALVANIZED CONDUIT |
| ③ | 1 | 2" WEATHER HEAD |
| ④ | 2 | UNIVERSAL SUPPORT BRACKET |
| ⑤ | 2 | 2" PIPE STRAP KIT |
| ⑥ | 1 | COPPERWELD 3/4"x10'-0" GROUND ROD |
| ⑦ | 1 | GROUND ROD CLAMP |
| ⑧ | 1 | GROUND LUG |
| ⑨ | 10' | #6 BARE COPPER GROUND WIRE |
| ⑩ | 1 | 5/8" EYE BOLT |
| | 40' | 1/C #2 THW BLACK |
| | 40' | 1/C #2 THW WHITE |
| | 40' | 1/C #2 THW RED |

SERVICE POLE (SIGNAL)

* CONDUIT AND WIRE EXTENDING MORE THAN 10' FROM POLE WILL BE MEASURED AND PAID PER ACTUAL FOOTAGE USED.

CONNECTIONS TO BE PROVIDED AND INSTALLED BY LOCAL UTILITY COMPANY

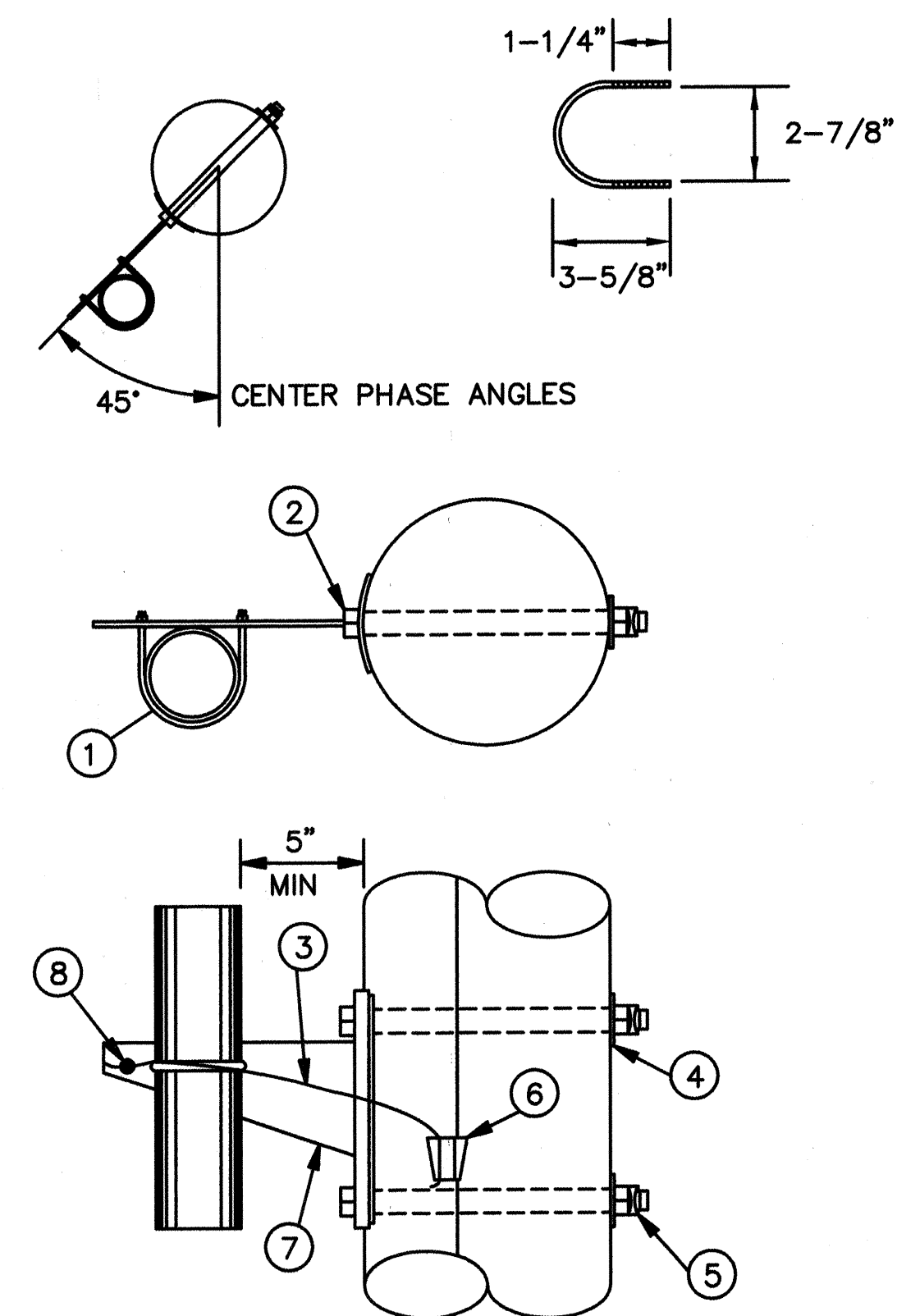


MATERIAL LIST

- | | | |
|---|-----|-----------------------------------|
| ① | 1 | EXISTING POLE |
| ② | 40' | 2" GALVANIZED CONDUIT |
| ③ | 1 | 2" WEATHER HEAD |
| ④ | 2 | UNIVERSAL SUPPORT BRACKET |
| ⑤ | 2 | 2" PIPE STRAP KIT |
| ⑥ | 1 | COPPERWELD 3/4"x10'-0" GROUND ROD |
| ⑦ | 1 | GROUND ROD CLAMP |
| ⑧ | 1 | GROUND LUG |
| ⑨ | 10' | #6 BARE COPPER GROUND WIRE |
| | 50' | 1/C #2 THW BLACK |
| | 50' | 1/C #2 THW WHITE |
| | 50' | 1/C #2 THW RED |

SERVICE RISER (SIGNAL)

* CONDUIT AND WIRE EXTENDING MORE THAN 10' FROM POLE WILL BE MEASURED AND PAID PER ACTUAL FOOTAGE USED



MATERIAL LIST

- | | | |
|---|----|----------------------|
| ① | 1 | U BOLT |
| ② | 2 | 5/8" MACHINE BOLTS |
| ③ | 3' | #4 SOLID COPPER WIRE |
| ④ | 2 | 2-1/4" SQUARE WASHER |
| ⑤ | 2 | 5/8" MF LOCK NUT |
| ⑥ | 1 | LINE TAP |
| ⑦ | 1 | SUPPORT BRACKET |
| ⑧ | 1 | GROUNDING LUG |

UNIVERSAL SUPPORT BRACKETS NOTES:

- BRACKET TO BE FASTENED TO POLE WITH 5/8" GALVANIZED MACHINE BOLTS.
- BRACKET SUITABLE FOR TWO 2" CONDUITS.
- TWO HOLE STRAPS ATTACHED AT 30" INTERVALS WITH 2" LAG SCREWS MAY BE USED INSTEAD OF THE SUPPORT BRACKET WHEN THE CONDUIT IS 1" OR LESS. A MAXIMUM OF TWO CONDUITS MAY BE STRAPPED DIRECTLY TO THE POLE.

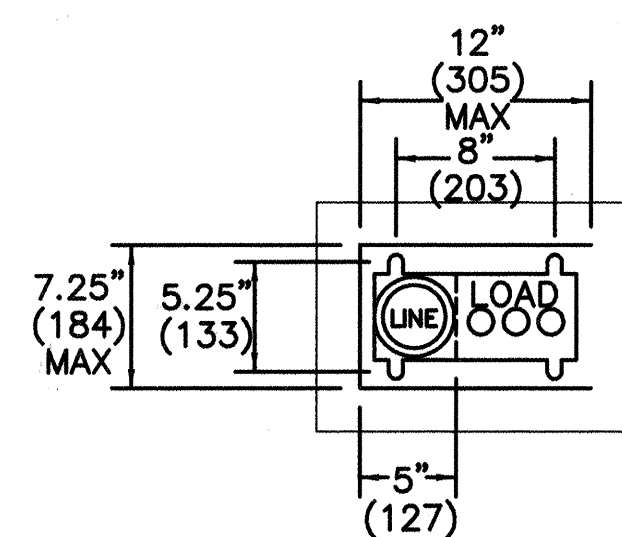
UNIVERSAL SUPPORT BRACKETS

SIGNAL SERVICE NOTES

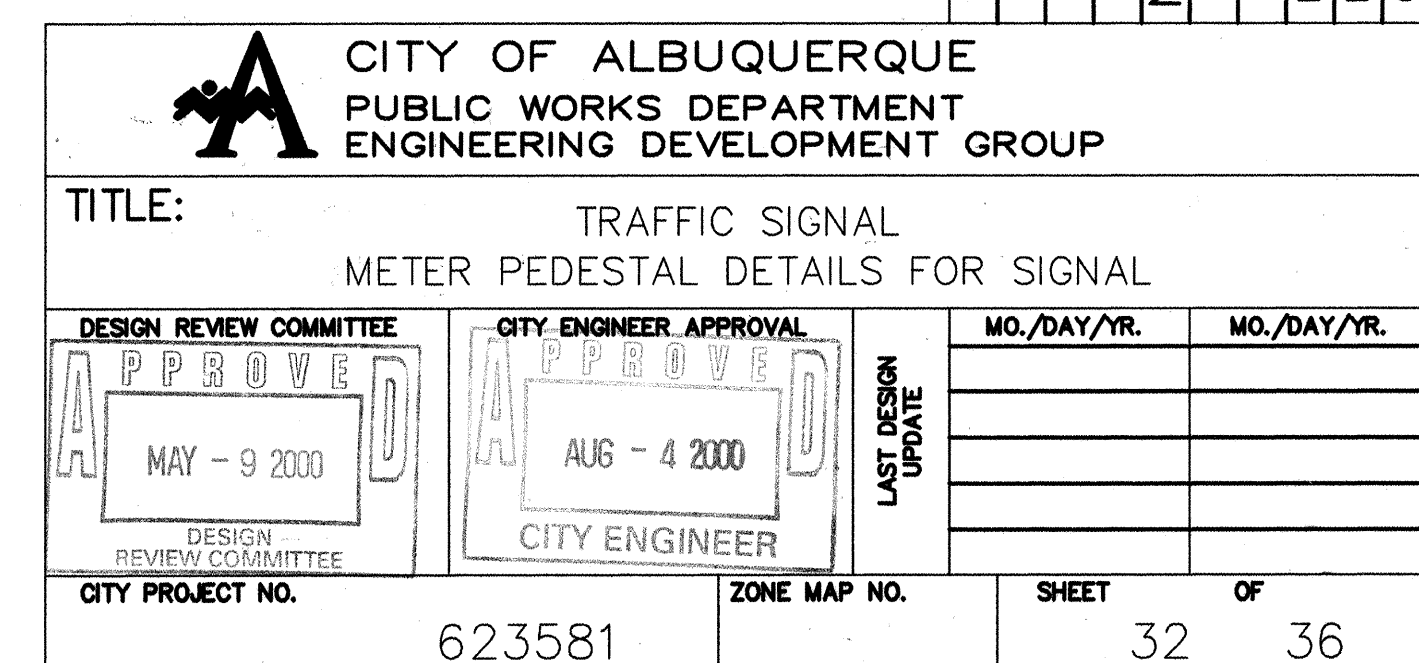
- ALL SIGNAL SERVICE DETAILS, MATERIALS, & INSTALLATION SHALL CONFORM TO THE LOCAL POWER COMPANY REQUIREMENTS.
- CONTACT LOCAL POWER COMPANY CUSTOMER SERVICES FOR POLE QUADRANT FOR RISERS.
- ALL ABOVE GRADE CONDUIT SHALL BE GALVANIZED.
- RISER BRACKET ASSEMBLY MUST BE GROUNDED PER LOCAL POWER COMPANY REQUIREMENTS.
- CONDUIT AND WIRE EXTENDING MORE THAN 10' FROM POLE WILL BE MEASURED AND PAID PER ACTUAL FOOTAGE USED.
- UNIVERSAL SUPPORT BRACKETS WILL BE CONSIDERED INCIDENTAL.
- DRILLING HOLES IN EXISTING STEEL POLES FOR UNIVERSAL SUPPORT BRACKETS WILL NOT BE PERMITTED. BRACKETS SHALL BE MOUNTED ON STEEL POLES WITH STAINLESS STEEL BANDS.
- PROVIDE ONE 50A, SINGLE POLE, 120V CIRCUIT FOR CONTROLLER SIGNALS.

FOR INFORMATION ONLY

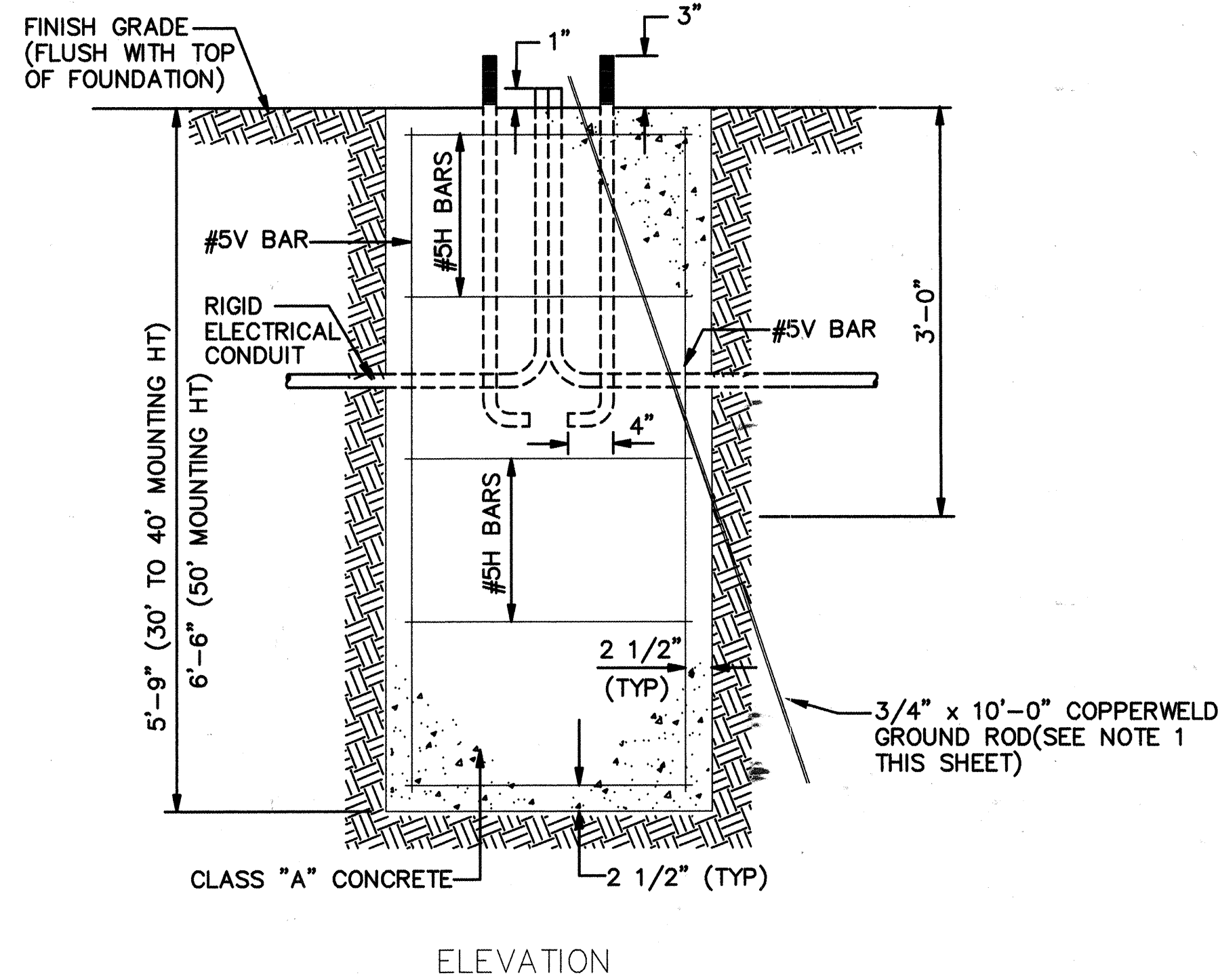
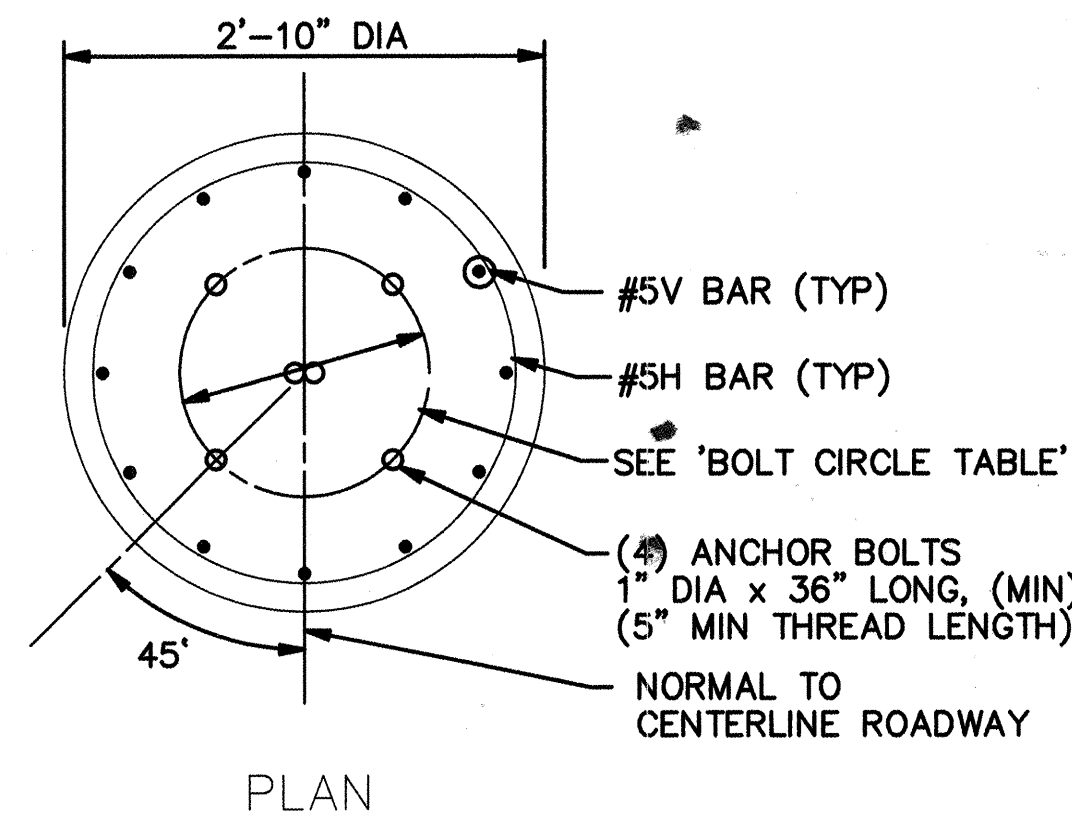
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: TRAFFIC SIGNAL ELECTRICAL SERVICE DETAILS			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	NO./DAY/YR.	MO./DAY/YR.
APPROVED MAY - 9 2000 DESIGN REVIEW COMMITTEE	APPROVED AUG - 4 2000 CITY ENGINEER		
SHEET PROJECT NO. 623581		ZONE MAP NO. 31 OF 36	



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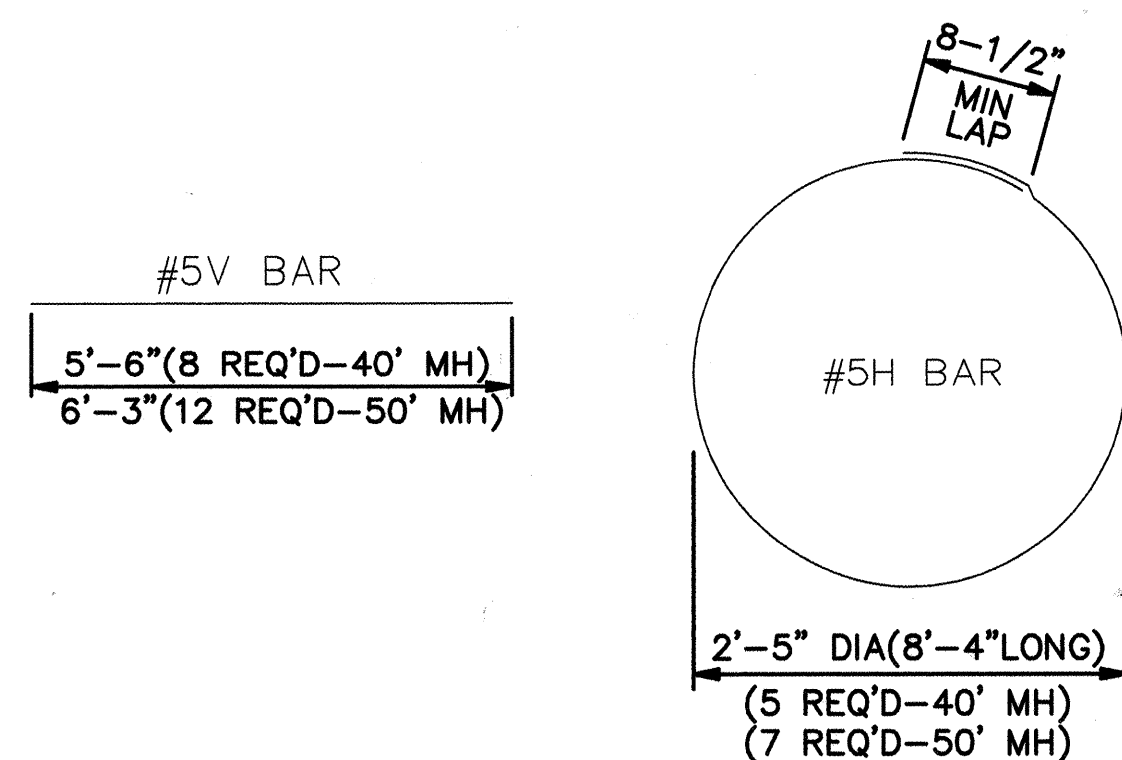
BOLT CIRCLE TABLE		
MOUNTING HEIGHT	NUMBER OF ARMS	BOLT CIRCLE
30'-35'	1 OR 2	11" OR 12"
40'	1	11" OR 12"
40'	2	14" OR 15"
50'	1	14" OR 15"
50'	2	14" OR 16"



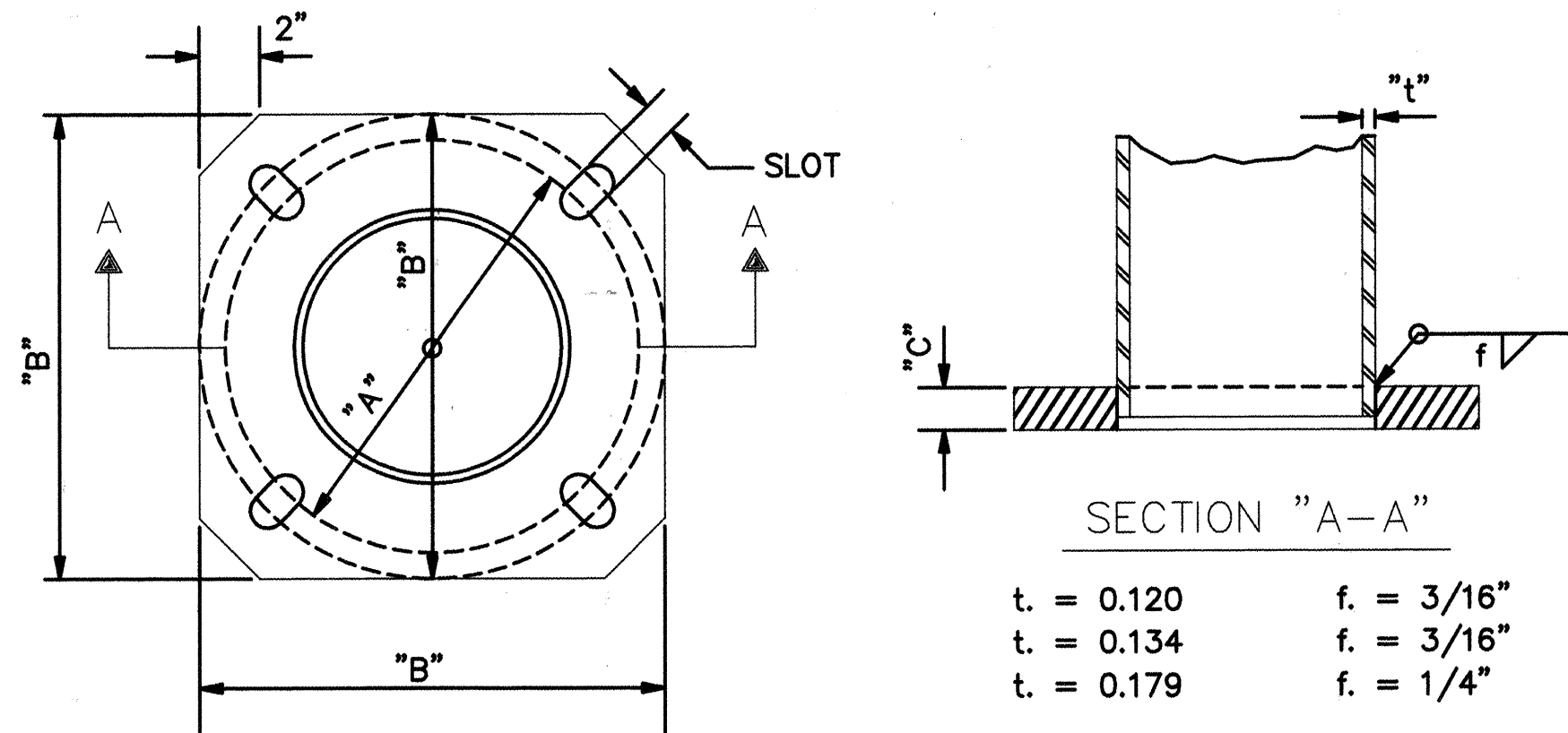
FOUNDATION DETAILS

ESTIMATED FOUNDATION QUANTITIES

ITEM	30' TO 40' MOUNTING HT	50' MOUNTING HT
REINFORCING BARS, GRADE 60	92 POUNDS	139 POUNDS
PORTLAND CEMENT CONCRETE CLASS "A"	1.33 CU YDS	1.5 CU YDS



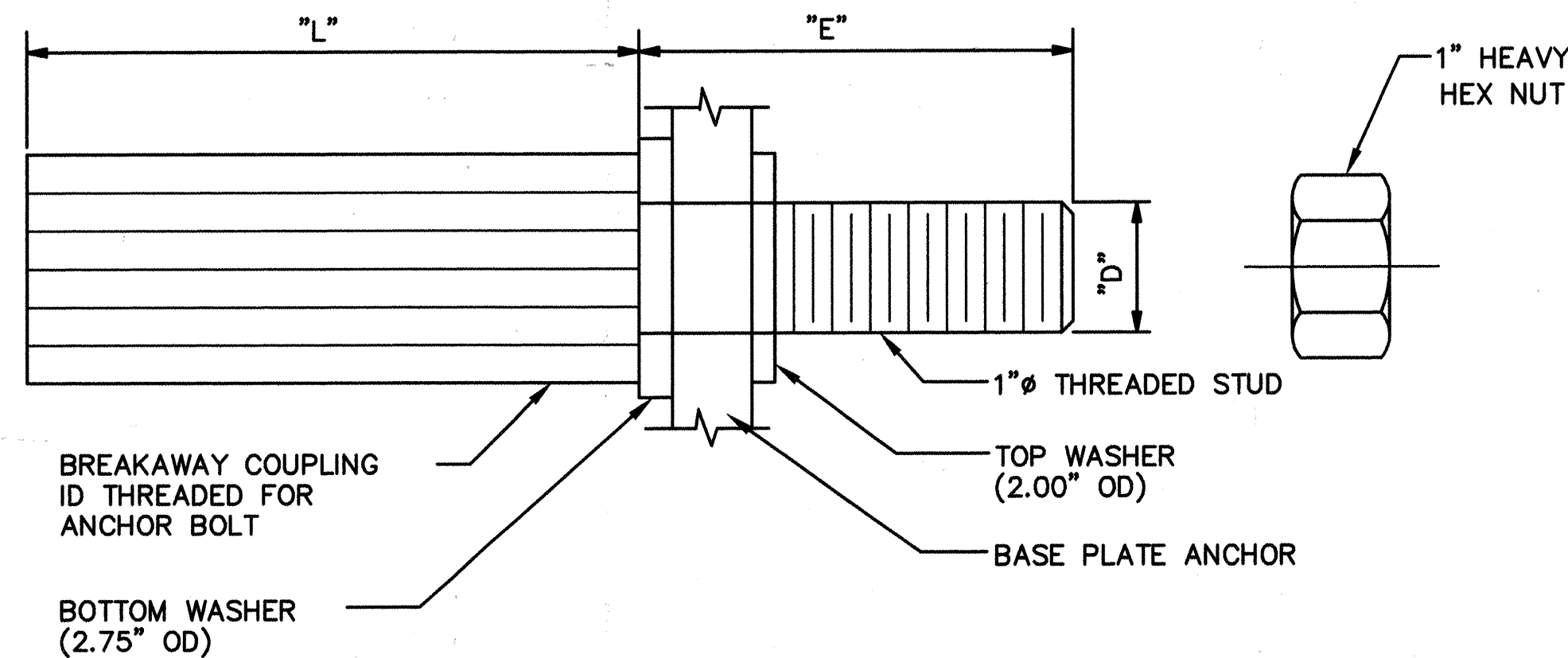
REINFORCING BARS



DIMENSION TABLE					
MOUNTING HEIGHT	NUMBER OF ARMS	DIMENSIONS (INCHES)			
		A (MIN)	B (MAX)	C	SLOT
30'-35'	1 OR 2	11	16	1"	1.13" x 3.69"
40'	1 OR 2	11	16	1"	1.13" x 3.69"
50'	1 OR 2	14	16	1"	1.13" x 2.19"

ANCHOR BASE SHALL BE FABRICATED FROM PLATE STEEL CONFORMING TO ASTM A-36 AND SHALL BE WELDED TO POLE SHAFT PRIOR TO GALVANIZING SHAFT.

ANCHOR BASE DETAIL



DIMENSION TABLE						
D	THREAD	MINIMUM TENSILE STRENGTH	RESTRAINED SHEAR		NUT TORQUE ± 25 FT LBS	L
			MIN	MAX		
1"	8 UNC	25 KIPS	30 KIPS	7.5 KIPS	175	4-3/4" 3-5/16"

BREAKAWAY SUPPORT COUPLING SHALL CONFORM TO THE REQUIREMENTS OF AASHTO STANDARDS FOR BREAKAWAY SUPPORTS.

BREAKAWAY COUPLINGS SHOULD NOT BE USED ON 50' DOUBLE ARM POLES.

COUPLING SHALL BE FABRICATED FROM EITHER DIE CAST ALUMINUM ALLOY 380 ACCORDING TO ASTM B-85, OR EXTRUDED FROM ALLOY 2024-T8511 ACCORDING TO ASTM A-153.

WASHERS SHALL BE FABRICATED FROM ASTM A-36 STEEL PLATE AND SHALL BE GALVANIZED ACCORDING TO ASTM A-153.

HEX NUTS SHALL MEET THE REQUIREMENTS OF ASTM A-563 GRADE A, AND ANSI 18.2.2 HEX TYPE AND SHALL BE GALVANIZED ACCORDING TO ASTM A-153.

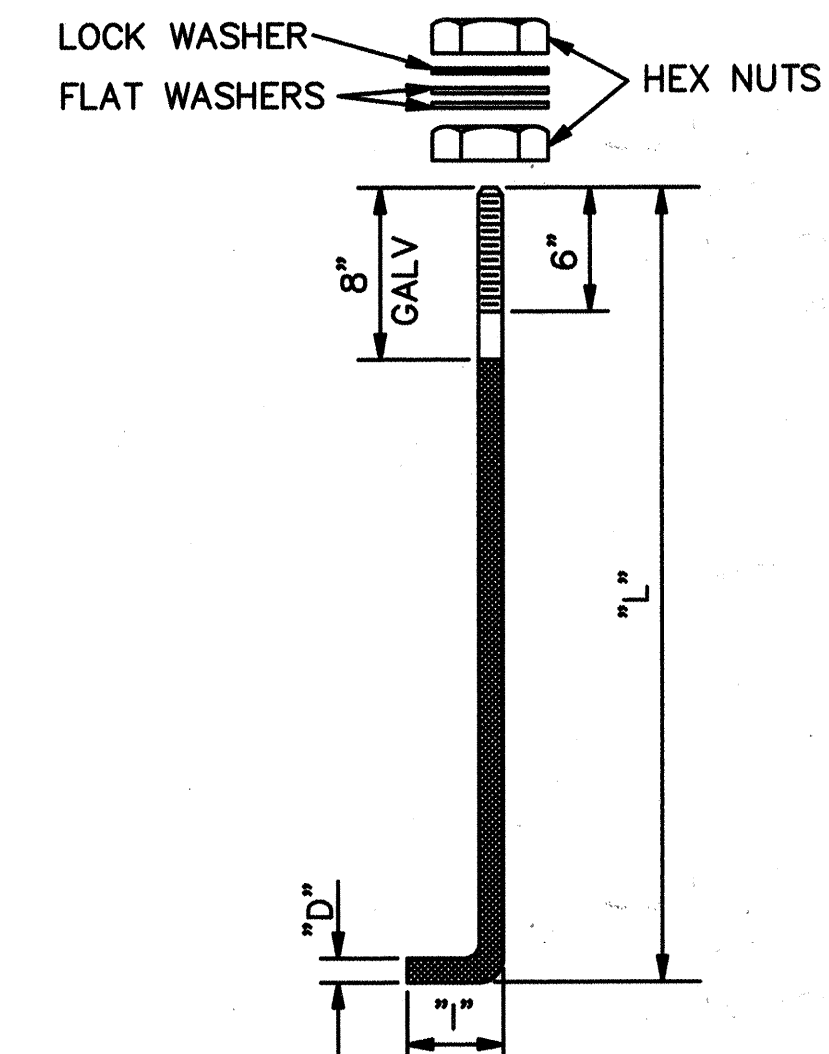
THREADED STUD SHALL MEET THE REQUIREMENT OF ASTM A-675 GRADE 90 AND IS GALVANIZED WITH ASTM A-153, OR IS FABRICATED FROM ANSI STAINLESS STEEL.

WHEN COUPLINGS ARE FURNISHED, EACH LIGHT POLE SHALL BE FURNISHED WITH FOUR (4) COUPLINGS AND THREADED STUDS, EIGHT (8) FLAT WASHERS, AND FOUR (4) HEX NUTS.

BREAKAWAY SUPPORT COUPLING

GENERAL NOTES:

- ALL FOUNDATIONS SHALL INCLUDE COPPERWELD GROUND RODS AS SHOWN WHICH SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE FOUNDATION. NO PRICE OR PAYMENTS SHALL BE MADE THEREFOR.
- WELDING SHALL BE IN ACCORDANCE WITH SECTION 1.4.2 OF AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS.
- ALUMINUM STANDARDS MAY UTILIZE EITHER AN APPROVED ALUMINUM BASE OR BREAKAWAY COUPLINGS.



DIMENSION TABLE					
MOUNTING HEIGHT	NUMBER OF ARMS	D	L	I	UNC
30'-50'	1 OR 2	1"	36	4	8

ANCHOR BOLTS SHALL BE HOT BENT AND SHALL MEET THE REQUIREMENTS OF ASTM A-675 GRADE 90, NUTS MEET THE REQUIREMENTS OF ASTM A-563 GRADE A, AND ANSI B18.2.

FLAT WASHERS SHALL MEET THE REQUIREMENTS OF ANSI B27.2 HEAVY WASHERS.

LOCK WASHERS SHALL MEET THE REQUIREMENTS OF ANSI B18.21.1 HEAVY WASHERS.

BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A-153.

FOUR (4) ANCHOR BOLTS, EIGHT(8) HEX NUTS, EIGHT (8) FLAT WASHERS, AND FOUR (4) LOCK WASHERS SHALL BE FURNISHED WITH EACH POLE.

NUTS, FLAT WASHERS, AND LOCK WASHERS FURNISHED FOR BREAKAWAY SUPPORTS SHALL BE SPECIFIED ON DETAILS.

ANCHOR BOLTS

FOR INFORMATION ONLY

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: STREET LIGHTING FOUNDATION & MISCELLANEOUS DETAILS			
DESIGN REVIEW COMMITTEE MAY - 9 2000	CITY ENGINEER APPROVAL AUG - 4 2000	NO./DAY/YR. _____	MO./DAY/YR. _____
CITY PROJECT NO. 623581		ZONE MAP NO. _____	SHEET 33 OF 36

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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.

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

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.

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.

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.

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.

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

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

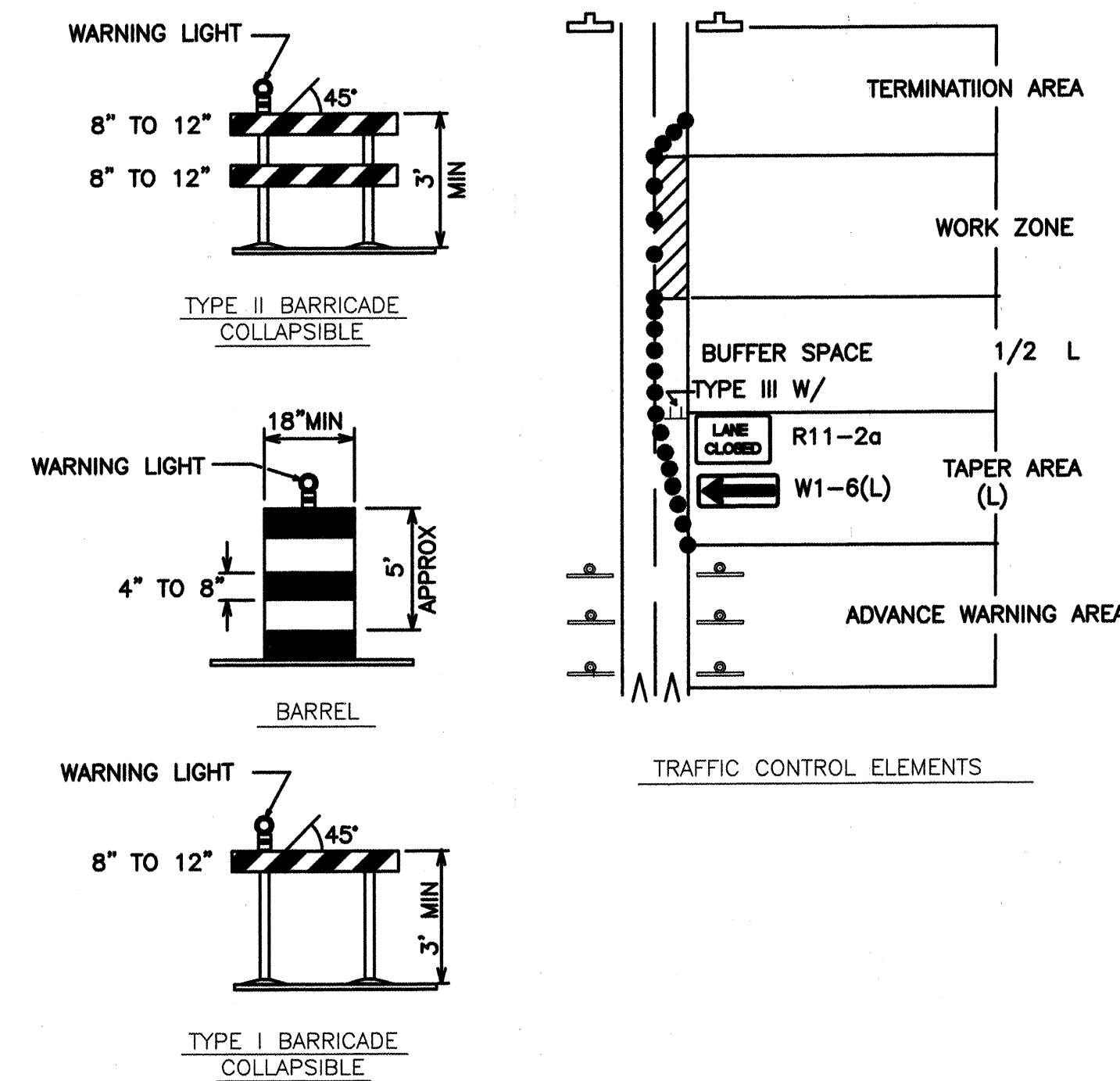
18. ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE. CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

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

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.

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

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



W1-1(R) 30 MPH or LESS	W1-1(L) 30 MPH or LESS	W1-2(R) 30 MPH or GREATER	W1-2(L) 30 MPH or GREATER	W1-3(R) 30 MPH or LESS	W1-3(L) 30 MPH or LESS	W1-4(R) 30 MPH or GREATER	W1-4(L) 30 MPH or GREATER	W1-6(R)	W1-6(L)	W3-1		
W4-2(R)	W4-2(L)	W6-3	W8-1	W8-3	W8-3A	W8-7	W13-1	W12-1	W8-9a	W14-2	W3-1A	
W20-1	W20-2	W20-3	W20-4	W20-5(R)	W20-5(L)	W20-5(2R)	W20-5(2L)	W20-5(C)	W20-7	W20-7a	W1-4bR	W1-4bL
R1-1	R1-2	R2-1	R2-5a	R2-5b	R3-1	R3-2	R3-3	R3-7(R)	R3-7(L)	R4-7b	R4-7bL	
R5-1	R5-1a	R6-1(L)	R6-1(R)	R7-1	R11-2	R11-2a	R11-4	M4-8a	M4-9(R)	M4-9(L)		
				ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.								
SPECIAL SIGN 10	SPECIAL SIGN 20	SPECIAL SIGN 30	SPECIAL SIGN 50					M4-10(R)	M4-10(L)	G20-2		

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

THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.

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

SPEED MILES PER HOUR	MINIMUM BETWEEN SIGNS	DISTANCE IN FEET 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

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

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

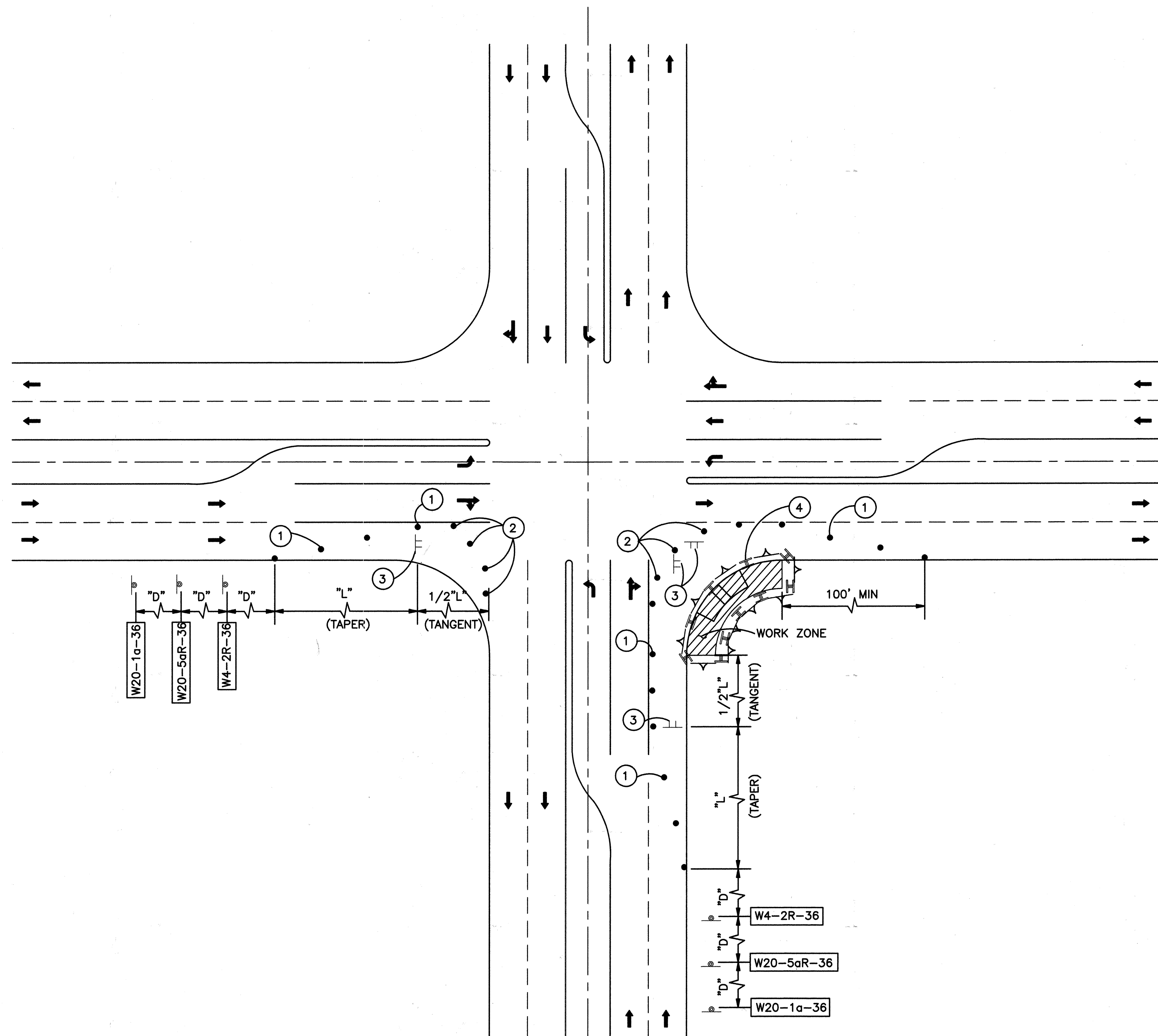
L = TAPER LENGTH
W = WIDTH OF OFFSET IN FEET
S = POSTED SPEED OR OFF-PEAK
85-PERCENTILE SPEED IN MPH

 CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: TRAFFIC CONTROL
SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
COT	STD			
CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF	
623581		34	36	

S: \TRANS\GRAPHICS\COA\IMPERIAL



TYPICAL TRAFFIC CONTROL PLAN

FOR INSTALLATION OF WHEELCHAIR RAMPS AND TRAFFIC SIGNAL CONTROL EQUIPMENT

NOTES:

- INSTALL NEW WHEELCHAIR RAMPS AND TRAFFIC SIGNAL EQUIPMENT AT INTERSECTIONS AS APPROVED BY THE PROJECT MANAGER. CONTRACTOR IS ALLOWED A MAXIMUM OF FOUR(4) SETS OF ADVANCE WARNING SIGNS & BARRICADES AS SHOWN IN THE TYPICAL TRAFFIC CONTROL PLAN ON THIS SHEET. ADDITIONAL SETS MAY BE USED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- WHEELCHAIR RAMP CONSTRUCTION SHALL NOT BE PERMITTED AT MORE THAN ONE CORNER AT A TIME PER INTERSECTION UNLESS APPROVED OTHERWISE BY THE PROJECT MANAGER.
- TYPICAL RIGHT AND LEFT LANE CLOSURE, AS SHOWN ON SHEET 26, SHALL BE USED TO COMPLETE INTERCONNECT INSTALLATION BETWEEN INTERSECTIONS. LENGTH OF WORK AREA SHALL BE NO LONGER THAN ONE BLOCK. CONTRACTOR IS ALLOWED A MAXIMUM OF TWO(2) SETS FOR RIGHT LANE CLOSURES AND TWO(2) SETS FOR LEFT LANE CLOSURES. ADDITIONAL SETS MAY BE USED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- ESTIMATED QUANTITIES ARE BASED ON AN ESTIMATED POSTED SPEED OF 25 MPH.
- CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS ON ALL SIDEWALKS AND INTERSECTION CORNERS IN SO FAR AS IT IS POSSIBLE. IF ACCESS CANNOT BE MAINTAINED, THE CONTRACTOR SHALL COORDINATE WITH THE PROJECT MANAGER TO ESTABLISH PROPER WARNING SIGNS AND DETOURS FOR PEDESTRIANS.
- THE CITY OF ALBUQUERQUE WILL ASSESS EXCAVATION AND BARRICADE FEES FOR ALL PERMITS THAT THE CONTRACTOR OBTAINS FOR WORKING THE PUBLIC R.O.W. THE LANE USAGE FEE FOR ARTERIAL AND COLLECTOR ROADWAYS IS \$0.01 PER S.F. PER DAY.
- NO LANE CLOSURES WILL BE ALLOWED ON EASTBOUND AVENIDA CESAR CHAVEZ FROM 6:00 A.M. TO 7:00 P.M., MONDAY THROUGH FRIDAYS.
- NO LANE CLOSURES WILL BE ALLOWED ON WESTBOUND AVENIDA CESAR CHAVEZ FROM 3:00 P.M. TO 9:00 A.M., MONDAY THROUGH FRIDAYS.

KEY LEGEND

- 1 • CHANNELIZATION DEVICE, TYPE "H" SEE SHEET 25 FOR SPACING
 - 2 • CHANNELIZATION DEVICE, TYPE "H" AT 10' SPACING AROUND CORNERS
 - 3 ≡ TYPE III BARRICADE W/R11-2a & W1-6L SIGNS (LANE CLOSED AND LEFT ARROW)
 - 4 H TYPE I BARRICADE WITH WARNING FLAGGING
- ⇄ DIRECTIONAL ARROWS INDICATE LANES OPEN TO TRAFFIC THIS PHASE
- ⊕ SIGN
- "D" = 10 X POSTED SPEED LIMIT
- "L" = SEE TAPER LENGTH CALCULATIONS SHEET 25

FOR INFORMATION ONLY

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: TRAFFIC CONTROL TYPICAL TRAFFIC CONTROL PLAN	
DESIGN-REVIEW COMMITTEE APPROVE MAY - 9 2000 DESIGN REVIEW	CITY ENGINEER APPROVAL APPROVE AUG - 4 2000 CITY ENGINEER
DESIGNED BY COA DRAWN BY COA CHECKED BY COA	REVISIONS NO. DATE 1 8-97 2 8-97 3 8-97
CITY PROJECT NO. 623581	ZONE MAP NO. 36 OF 36