CITY OF CHINO
1992 WATER IMPROVEMENT

FOR

KIMBALL AVENUE
EL PRADO ROAD TO EUCLID AVENUE

AND

EUCLID AVENUE
KIMBALL AVENUE TO EUCALYPTUS AVENUE

AND

EUCALYPTUS AVENUE
EUCLID AVENUE TO FERN AVENUE

AND

FERN AVENUE
EUCALYPTUS AVENUE TO EDISON AVENUE

AND

MERRILL AVENUE
EUCLID AVENUE TO AIRPORT ENTRANCE

LEGEND

PROPOSED	EXISTING	
◉	◉	MONUMENT
▲	△	BENCH MARK
●	◉	TEST BORING
	○	MANHOLES; EXISTING (* = listed below) S=SEWER, D=STORM DRAIN AND T=TELPHONE
	▣	TERMINAL CLEANOUTS; EXISTING
	⋈	VALVE SYMBOLS; EXISTING (type labled)
⋈	⋈	VALVE SYMBOLS; (type labled) GENERAL, GATE, BALL, CHECK & 3-WAY DIVERTER
▶	▷	CONCENTRIC REDUCERS; PPROPOSED AND EXISTING (size labled)
		CITY ELECTROLIER – 75-150 WATTS; EXISTING
		UTILITY POLE AND GUY ANCHOR; EXISTING
⊡	⊡	METERS; PROPOSED AND EXISTING (* = listed below) G=GAS AND W=WATER
PB	PB	PULL BOXES; PROPOSED AND EXISTING
		TRAFFIC SIGNAL DETECTOR
		TRAFFIC SIGN
		TRAFFIC SIGNAL POLE
		TRAFFIC SIGNAL CONTROLLER
TS	TS	TRAFFIC SIGNAL PULL BOX
		FIRE HYDRANTS; PROPOSED AND EXISTING
		BLOW-OFF
		THRUST BLOCK
		SAW-CUT AND PAVEMENT REPLACEMENT AREA

UTILITY LINE (* = listed below)
- E = ELECTRICAL
- G = GAS
- I = IRRIGATION
- O = OIL
- S = SEWER
- SD = STORM DRAIN
- T = TELEPHONE
- TV = TV CABLE
- W = WATER
- X = IND WASTE

EXISTING IMPROVEMENTS

PROPOSED WATER LINE (size noted)

EDGE OF PAVEMENT [hatch marks on pavement side]

SHRUBS

TREE

CENTER LINE

CURB & GUTTER

RAILROAD TRACK

RIGHT-OF-WAY

PROPERTY LINE

FLOW LINE

BARB-WIRE FENCE

CHAIN-LINK FENCE

BLOCK WALL

GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CITY OF CHINO STANDARDS AND SPECIFICATIONS AND AWWA SPECIFICATIONS, LATEST EDITION.
2. ALL WATER MAINS SHALL BE AWWA C900 P.V.C. CLASS 200 MIN. OR MORTAR LINED AND STEEL PIPE AS NOTED.
3. HOURS OF OPERATION SHALL BE FROM 6:00 TO 7:00 PM, MONDAY THROUGH FRIDAY.
4. WATER MAINS IN PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED WITH A MINIMUM COVER OF 42 INCHES BELOW FINISHED STREET SURFACE; AND GRADE SHALL BE STRAIGHT, UNLESS OTHERWISE INDICATED IN PLAN OR PROFILE VIEW.
5. A COPPER WIRE, 14 A.W.G., IS TO BE LAID ON TOP OF THE NON-METALLIC MAIN WITH CONDUCTING CONNECTIONS TO THE VALVES AND WRAPPED AROUND THE MAIN AT 10'± INTERVALS.
6. FIRE HYDRANT ASSEMBLIES SHALL BE INSTALLED PER CITY OF CHINO STANDARDS AND SPECIFICATIONS.
7. A VALVE BOX AND COVER SHALL BE INSTALLED AT EACH VALVE. VALVE BOXES SHALL BE AN EIGHT (8) INCH DIAMETER GALVANIZED STEEL TELESCOPING TYPE. VALVE BOX CAPS SHALL BE ALHAMBRA FOUNDARY NO. A29608 DESIGNATED WATER OR APPROVED EQUAL. BROOKS PRODUCTS 8-3/4 INCH DIAMETER TRAFFIC BOX AND COVER MARKED WATER MAY BE USED AT THE OPTION OF THE CONTRACTOR.
8. PRESSURE TESTING AND CHLORINATION SHALL BE PERFORMED IN ACCORDANCE WITH AWWA AND CITY OF CHINO STANDARDS AND SPECIFICATIONS.
9. ALL CONNECTIONS TO EXISTING WATER MAINS SHALL BE DONE BY THE CONTRACTOR UNDER THE SUPERVISION OF THE CITY'S UTILITY PUBLIC WORKS INSPECTOR. CONNECTIONS SHALL BE MADE AT A PRE-ARRANGED TIME. AND SHALL BE COORDINATED 48 HOURS IN ADVANCE.
10. GAS LINES TO BE CONSTRUCTED BY THE SOUTHERN CALIFORNIA GAS COMPANY.
11. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND IDENTIFYING ALL UNDERGROUND LINES AND SUBSTRUCTURES, OF EVERY NATURE, AND TO PROTECT THEM FROM DAMAGE.
12. CONTRACTOR SHALL FURNISH THE CITY ENGINEER WITH "AS-BUILTS" OF ALL UTILITY CONSTRUCTION PLANS.
13. ALL FIRE HYDRANTS WHICH HAVE NOT BEEN ACCEPTED FOR SERVICE SHALL BE COVERED WITH A SACK INDICATING THAT THE HYDRANTS ARE NOT IN SERVICE.
15. APPROVAL OF THESE PLANS BY THE CITY OR ITS AGENTS DOES NOT RELIEVE THE ENGINEER FROM THE RESPONSIBILITY FOR THE CORRECTION OF ERRORS OR OMISSIONS DISCOVERED DURING CONSTRUCTION. UPON REQUEST, THE APPROPRIATE PLAN REVISIONS SHALL BE PROMPTLY SUBMITTED TO THE CITY ENGINEER FOR REVIEW AND APPROVAL.

NOTIFICATIONS

NOTE: THE CONTRACTOR SHALL NOTIFY THE UNDERGROUND SERVICE ALERT (1-800-422-4133) AND THE FOLLOWING UTILITIES OR AGENCIES 2 WORKING DAYS PRIOR TO STARTING CONSTRUCTION OR EXCAVATION:

CITY OF CHINO (FRED MILLER) (714) 627-7577 ext. 335
SOUTHERN CALIFORNIA EDISON (RON SPEAR) (714) 947-8215
SOUTHERN CALIFORNIA GAS DISTRIBUTION (GARY BELL) (714) 394-4259
SOUTHERN CALIFORNIA GAS BREA TRANSMISSION DIVISION (DICK ILLINGSWORTH) (714) 634-3199
GENERAL TELEPHONE (STEVE HOOK) (714) 865-1309
CHINO VALLEY CABLEVISION (RAY LEWIS) (714) 591-9571 EXT. 234

SEAL

REGISTERED PROFESSIONAL ENGINEER — RAMSAY M. McDERMID — NO. C21900 EXP. 9-30-93 — CIVIL — STATE OF CALIFORNIA

CALL: TOLL FREE 1-800-422-4133 in Southern California

CALL BEFORE YOU DIG

Two working days before you dig.

NOTE:

APPLIES TO ALL SHEETS.

Contractor shall sawcut, remove and replace a minimum of 2' of any damaged pavement and install 2" x 6" redwood header along the edge of pavement at his own cost.

GENERAL NOTES FOR WORK IN CALTRANS R/W

ALL WORK within the State right of way SHALL CONFORM to the latest STATE STANDARD PLANS & SPECIFICATIONS or as directed by the State's representative (Standards other than State Standards must be pre-approved and justified).

NO EQUIPMENT or MATERIALS may be stored on the State right of way.

ALL disturbed areas in the State right of way MUST BE treated for erosion control (hydroseeding or equivalent, or as directed by the State's representative). The responsibility for maintaining erosion control WILL NOT be released until the seeding is well established. The CONTRACTOR WILL BE RESPONSIBLE for the COST OF CALTRANS CLEANING ANY DRAINAGE STRUCTURES/CHANNELS which have become cluttered with debris and/or silt as a result of, or caused by, the construction project.

ACCESS CONTROL on the freeway WILL BE MAINTAINED at all times, i.e., the work inside the State right of way MUST BE FENCED OFF with no access to the work area from the freeway.

NO FREEWAY RAMPS or FREEWAY LANES MAY BE CLOSED or obstructed at ANYTIME unless specifically allowed per the encroachment permit and/or as directed by the State's representative.

ALL fence relocated to facilitate the construction of this project inside the State right of way SHALL BE REPLACED WITH TYPE CL-6 FENCE as shown in the State's Standard Plans or with a reinforced concrete block wall in accordance with acceptable local agency standards.

Where Type CL-6 fence does not exist, the State right of way fence MUST BE upgraded to TYPE CL-6 FENCE, as shown in the Standard Plans.

The STRUCTURAL SECTION shown within the State right of way is for ESTIMATING purposes ONLY. The actual section WILL BE designed by a Soil Engineer after native soil testing has been completed. A traffic index (TI) of N/A shall be used in the design of the travelled way, and a TI of N/A shall be used for the shoulder design. The laboratory reports and the design calculations SHALL BE SUBMITTED to the State's representative for APPROVAL PRIOR TO CONSTRUCTION of the structural section.

ALL State drainage structures/channels MUST first BE COMPLETELY CLEANED of debris and/or silt by the contractor PRIOR to making the connection.

The contractor SHALL BE RESPONSIBLE for ensuring that any State drainage facility which is connected to or directly affected by the contractors operation SHALL BE clean and operational PRIOR TO FINAL ACCEPTANCE of the permit work by the State. Adequate clean-outs and access openings SHALL BE PROVIDED in any construction within the State's right of way for future maintenance and repair work as needed. This work shall be furnished at NO COST TO the STATE.

Where SURVEY MONUMENTS exist, such monuments SHALL BE PROTECTED or shall be REFERENCED and RESET pursuant to Business and Professions Code, Sections 8700 to 8805 (Land Surveyor's Act).

The pavement MUST BE saw-cut 2' minimum from the edge of pavement. The saw-cuts MUST BE perpendicular or parallel to the State highway centerline.

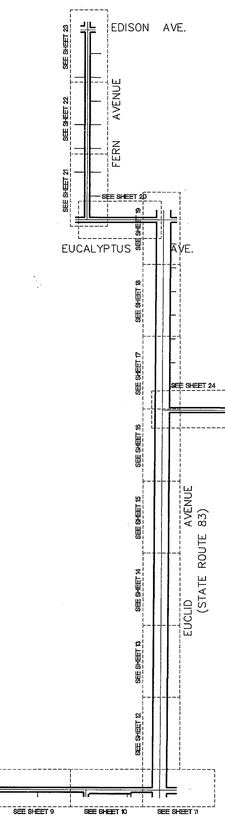
ALL signing, striping and pavement markings SHALL BE in conformance with the current edition of the TRAFFIC MANUAL, published by the State of California, Department of Transportation, and the SPECIAL PROVISIONS. All pavement markings SHALL BE thermoplastic unless otherwise noted on the plans.

The exact location of ALL SIGNS shall be determined in the field by the State's representative.

ALL conflicting striping and pavement markings NOT SHOWN on the plans SHALL BE REMOVED from the pavement by sandblasting by the contractor.

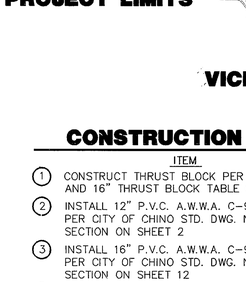
ALL conflicting signs SHALL BE either removed or relocated by the contractor. Relocatable signs SHALL BE installed as specified on the plans or as determined in the field by the State's representative.

ALL signs, roadside markers, electroliers, etc., SHALL BE PROTECTED and/or REPLACED in-kind according to the State Standard Plans and the current Traffic Manual, at NO COST TO the STATE.

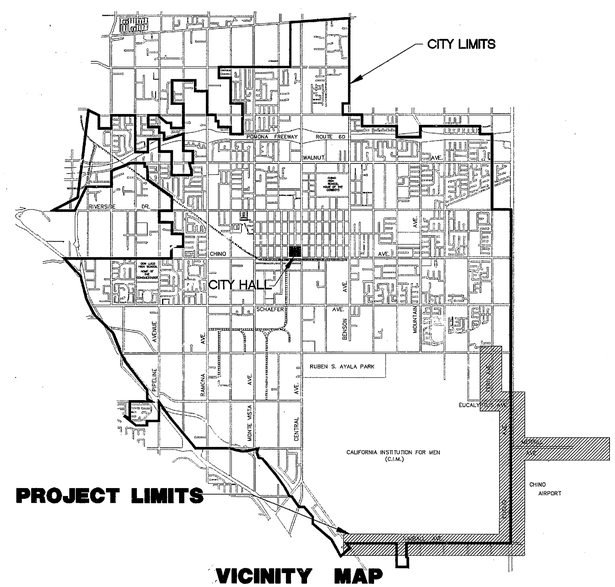


SHEET INDEX MAP

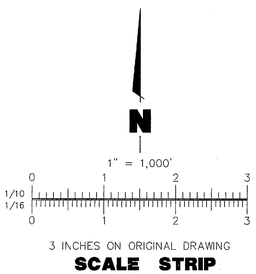
SCALE: 1" = 1000'



NOTE :
ALL FITTINGS SHALL BE DUCTILE IRON AND SHALL BE JOINED USING LOCKING RETAINING GLANDS.



VICINITY MAP
N.T.S.



SCALE STRIP

CONSTRUCTION NOTES & QUANTITY ESTIMATE

	ITEM	UNIT	QUANTITY
1	CONSTRUCT THRUST BLOCK PER CITY OF CHINO STD. DWG. NO. 460 AND 16" THRUST BLOCK TABLE ON SHEETS 11 THROUGH 19	EA	145
2	INSTALL 12" P.V.C. A.W.W.A. C-900 CL200 WATER MAIN PER CITY OF CHINO STD. DWG. NO. 109 AND TYPICAL SECTION ON SHEET 2	LF	16118
3	INSTALL 16" P.V.C. A.W.W.A. C-900 CL165 WATER MAIN PER CITY OF CHINO STD. DWG. NO. 109 AND TYPICAL SECTION ON SHEET 12	LF	7842
4	SAW-CUT EXISTING AC PAVEMENT AND REPLACE EXISTING STREET SECTION PLUS 1" ADDITIONAL AC PER CITY OF CHINO STD. DWG. NO. 109	LF SF	1460 3710
5	INSTALL 12" RESILIENT WEDGE GATE VALVE (AWWA C609) AND VALVE STEM EXTENSIONS PER CITY OF CHINO STD. NO. 450	EA	27
6	INSTALL 16" RESILIENT WEDGE GATE VALVE (AWWA C609) AND VALVE STEM EXTENSIONS PER CITY OF CHINO STD. NO. 450	EA	12
7	INSTALL 12" D.I.P. A.W.W.A. C-110 CL50 WATER MAIN PER CITY OF CHINO STD. DWG. NO. 109.	LF	149
8	CONSTRUCT ALL MISCELLANEOUS WORK NECESSARY TO INSTALL PIPE CROSSING	EA	1
9	INSTALL 2" AIR & VACUUM VALVE ASSEMBLY PER CITY OF CHINO STD. NO. 435	EA	5
10	INSTALL 4" BLOW-OFF & ASSEMBLY PER CITY OF CHINO STD. NO. 440B	EA	2
11	INSTALL 8" RESILIENT WEDGE GATE VALVE (AWWA 609) AND VALVE STEM EXTENSIONS PER CITY OF CHINO STD. NO. 450	EA	1
12	INSTALL 12" X 12" X 6" FIRE HYDRANT ASSEMBLY PER CITY OF CHINO STANDARD DRAWING NO. 445. REPLACE FIRE HYDRANT AND BREAKAWAY COUPLING WITH FLANGED END AND BLIND FLANGE AT SURFACE	EA	2
13	INSTALL FIRE HYDRANT ASSEMBLY PER CITY OF CHINO STD. NO. 445.	EA	1
14	INSTALL 16" D.I.P. A.W.W.A. C-110 CL50 WATER MAIN. PER CITY OF CHINO STD. DWG. NO. 109.	LF	35
15	INSTALL 10" D.I.P. A.W.W.A. C-110 CL50 WATER MAIN PER CITY OF CHINO STD. DWG. NO. 109.	LF	32
16	INSTALL 10" RESILIENT WEDGE GATE VALVE (AWWA C609) AND VALVE STEM EXTENSIONS PER CITY OF CHINO STD. NO. 450	EA	1

EXISTING UNDERGROUND STRUCTURES

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES OR CONDUITS SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK. CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UNDERGROUND UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN OR NOT SHOWN ON THESE PLANS.

NOTICE TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. THESE LOCATIONS ARE APPROXIMATE AND SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR, SO THAT ANY NECESSARY ADJUSTMENT CAN BE MADE IN ALIGNMENT AND/OR GRADE OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURE TO PROTECT ANY UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

RECORD DRAWING

PREPARED BY		REVISIONS	MADE BY	MADE DATE	APPROVED BY	APPROVED DATE	BENCH MARK DATA	REFERENCE DWGS
FIRM	GREINER, INC.							
ADDRESS	5225 CANYON CREST DRIVE – BUILDING 200, SUITE 253							
	RIVERSIDE, CALIFORNIA 92507-6323							
TEL. (714) 788-7746								
SIGNATURE	RAMSAY M. McDERMID DATE							

REVIEWED BY STAFF	BY	DATE
UTILITIES		
TRAFFIC		
FIRE		
PLANNING		

ENGINEER'S STAFF		BY	DATE
DRAWN	(PVT. ENGR.)	A.S./A.G.	
DESIGNED	(PVT. ENGR.)	V.T./D.R.G.	
CHECKED		L.A.M.	7-27-93
RECOMMENDED			9/15/93

APPROVED BY

DIR. OF PUBLIC WORKS/CITY ENGINEER

DATE 3/14/94

CITY OF CHINO ENGINEERING DIVISION

1992 WATER IMPROVEMENT

FOR

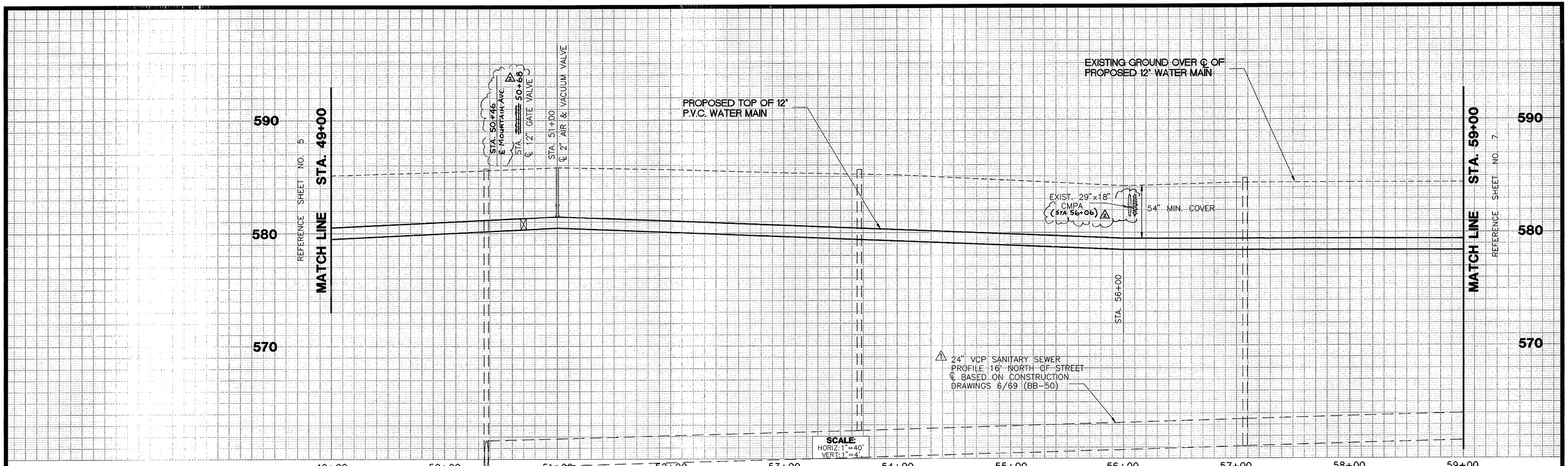
KIMBALL AV. ,EUCLID AVE. ,EUCALYPTUS AVE. ,FERN AVE. , AND MERRILL AVE.

PROJECT NO. CIP

SHEET 1 OF 28

DRAWING NO. CB-1025

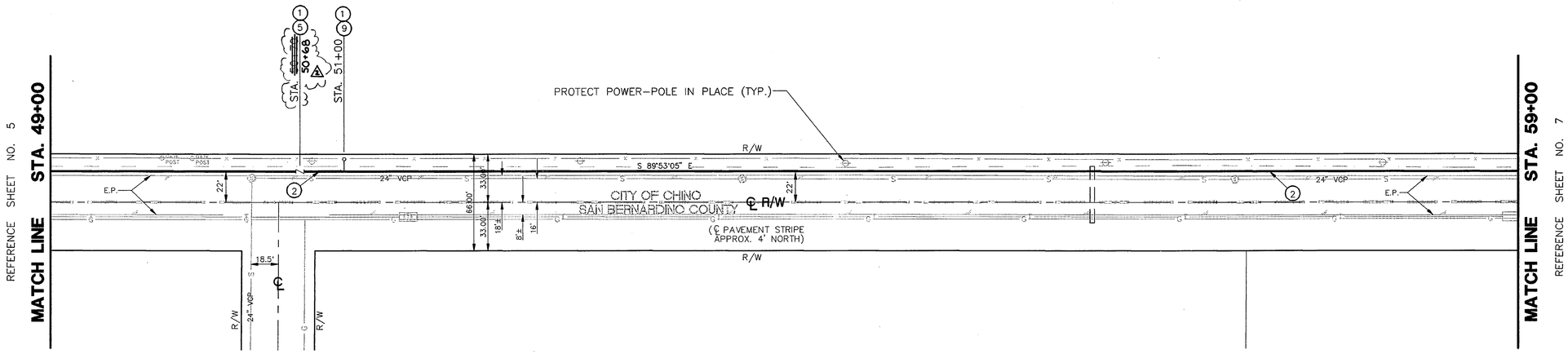
JN. HC06301 LTL01.DWG JUNE 13, 1993



CONSTRUCTION NOTES

1. CONSTRUCT THRUST BLOCK PER CITY OF CHINO STD. DWG. NO. 460 AND 16" THRUST BLOCK TABLE ON SHEETS 11 THROUGH 19.
2. INSTALL 12" P.V.C. A.W.W.A. C-900 CL200 WATER MAIN PER CITY OF CHINO STANDARD DRAWING NO. 155 AND TYPICAL SECTION ON SHEET 2
5. INSTALL 12" RESILIENT WEDGE GATE VALVE (AWWA C609) AND VALVE STEM EXTENSIONS PER CITY OF CHINO STD. NO. 460
9. INSTALL 2" AIR & VACUUM VALVE ASSEMBLY PER CITY OF CHINO STD. NO. 435

NOTE: CAUTION, POSSIBLE UNKNOWN DRAINAGE OR IRRIGATION CROSSINGS BETWEEN STA.49+00 AND STA.59+00



MOUNTAIN AVE. KIMBALL AVENUE

NOTE :
ALL FITTINGS SHALL BE DUCTILE IRON AND SHALL BE JOINED USING LOCKING RETAINING GLANDS.

SCALE: 1" = 40'

3 INCHES ON ORIGINAL DRAWING
SCALE STRIP

RECORD DRAWING

SEAL

REGISTERED PROFESSIONAL ENGINEER
RAMSAY M. McDERMID
NO. C21900
EXP. 9-30-93
CIVIL
STATE OF CALIFORNIA

CALL TOLL FREE 1-800-422-4133 in Southern California
Two working days before you dig.

PREPARED BY		REVISIONS	MADE BY	MADE DATE	APPROVED BY	APPROVED DATE
FIRM	GREINER, INC.	1 ADDED SEWER PROFILE			RM	12/93
ADDRESS	BLDG. 200, SUITE 253--5225 CANYON CREST DR.	2 "As Built"	GED	6/20/96		
	RIVERSIDE, CALIFORNIA 92507-6323	3				
TEL.	(714) 788-7746	4				
SIGNATURE	RAMSAY M. McDERMID	DATE 1/5/94	5			

BENCH MARK DATA	REFERENCE DWGS
NO. 141/69 ELEV. 685.9684 LOCATION: A 6" ø CONC. POST WITH A 2-1/2" BRASS DISC, FLUSH, AND 4"x4"x6' REDWOOD WITNESS POST, 1' WEST OF MONUMENT, 33' WEST AND 31' NORTH OF THE ℄ INTERSECTION OF FERN AVE. & EDISON AVE.	BB-48 BB-50

REVIEWED BY STAFF	BY	DATE
UTILITIES		
TRAFFIC		
FIRE		
PLANNING		

CITY ENGINEER'S STAFF	BY	DATE
DRAWN (PVT. ENGR.)	A.S./A.G.	
DESIGNED (PVT. ENGR.)	V.T./D.R.G.	
CHECKED	KMC 1/5	
RECOMMENDED		

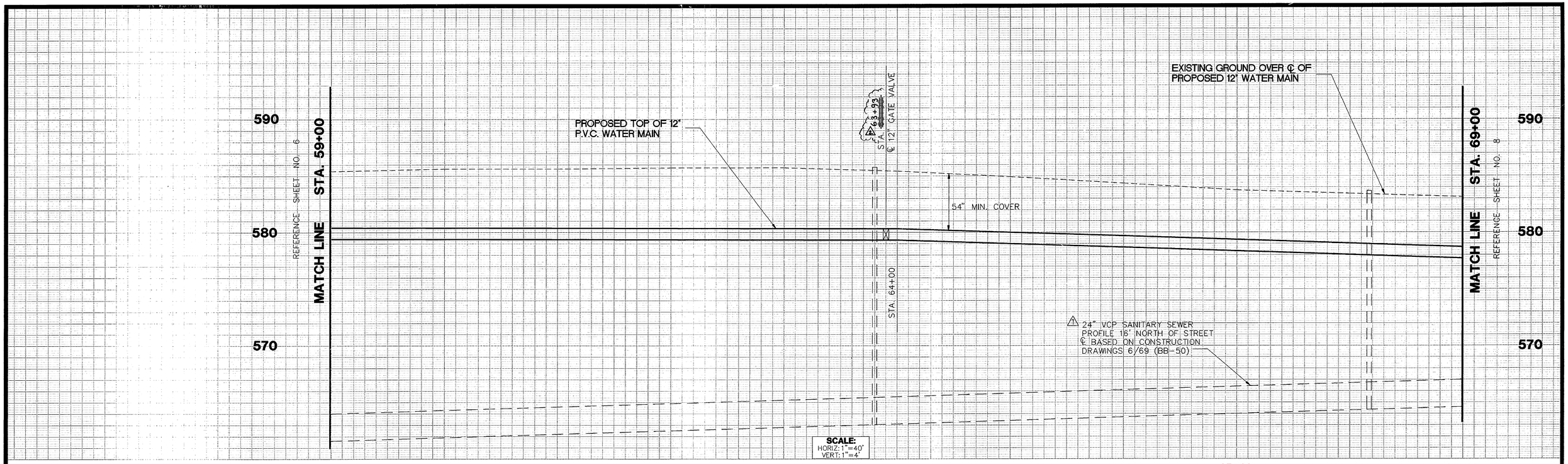
APPROVED BY
Robert F. Bramblett
DIR. OF PUBLIC WORKS/CITY ENGINEER
DATE 3/14/94

CITY OF CHINO ENGINEERING DIVISION

1992 WATER IMPROVEMENT
KIMBALL AVENUE
FROM 156' WEST OF MOUNTAIN AVE. TO 844' EAST OF MOUNTAIN AVE.
STA. 49+00 TO STA. 59+00

PROJECT NO. CIP
SHEET 6 OF 28
DRAWING NO. CB-1030

JN. H006301 LKIM05.DWG DEC 29, 1993



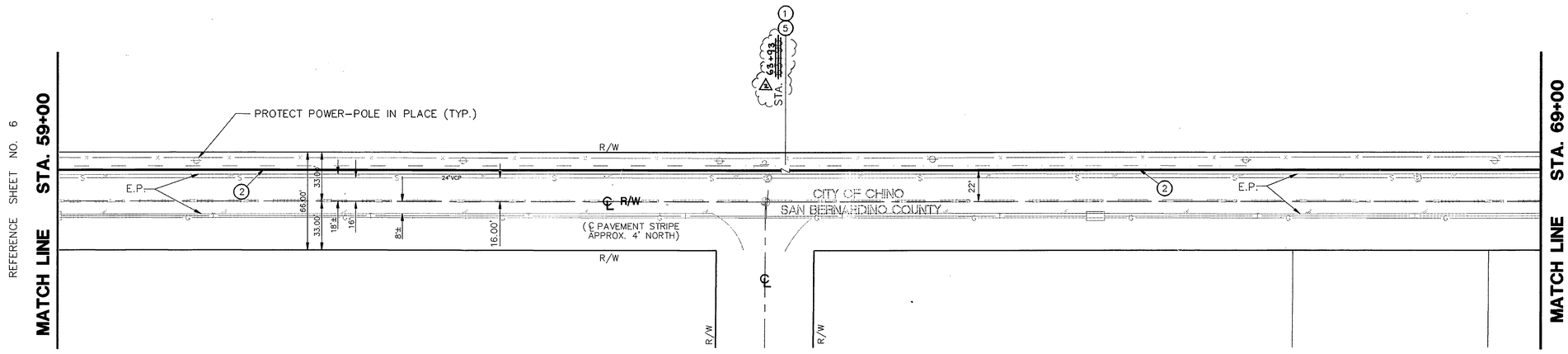
CONSTRUCTION NOTES

(1) CONSTRUCT THRUST BLOCK PER CITY OF CHINO STD. DWG. NO. 460 AND 16" THRUST BLOCK TABLE ON SHEETS 11 THROUGH 19.

(2) INSTALL 12" P.V.C. A.W.W.A. C-900 CL200 WATER MAIN PER CITY OF CHINO STANDARD DRAWING NO. 155 AND TYPICAL SECTION ON SHEET 2

(5) INSTALL 12" RESILIENT WEDGE GATE VALVE (AWWA C609, AND VALVE STEM EXTENSIONS PER CITY OF CHINO STD. NO. 450

NOTE: CAUTION, POSSIBLE UNKNOWN DRAINAGE OR IRRIGATION CROSSINGS BETWEEN STA.59+00 AND STA.69+00



CYPRESS AVENUE

KIMBALL AVENUE

NOTE :
ALL FITTINGS SHALL BE DUCTILE IRON AND SHALL BE JOINED USING LOCKING RETAINING GLANDS.

SCALE: 1"=40'

0 1 2 3
1/10 1/16
0 1 2 3
3 INCHES ON ORIGINAL DRAWING
SCALE STRIP

N

RECORD DRAWING 6/20/96

SEAL

REGISTERED PROFESSIONAL ENGINEER RAMSAY M. McDERMID NO. C21900 EXP. 9-30-93 CIVIL STATE OF CALIFORNIA

CALL: TOLL FREE 1-800-422-4133 in Southern California
Two working days before you dig.

PREPARED BY	
FIRM	GREINER, INC.
ADDRESS	BLDG. 200, SUITE 253--5225 CANYON CREST DR.
	RIVERSIDE, CALIFORNIA 92507-6323
TEL. (714)	788-7746
SIGNATURE	RAMSAY M. McDERMID 11/3/94

REVISIONS	MADE BY	MADE DATE	APPROVED BY	APPROVED DATE
1 ADDED SEWER PROFILE			RM	12/93
2 "As Built"	G.E.O.	6/20/96		
3				
4				
5				

BENCH MARK DATA
NO. 141/69 ELEV. 685.9684
LOCATION: A 6" ø CONC. POST WITH A 2-1/2" BRASS DISC, FLUSH, AND 4"x4"x6' REDWOOD WITNESS POST, 1' WEST OF MONUMENT, 33' WEST AND 31' NORTH OF THE ℄ INTERSECTION OF FERN AVE. & EDISON AVE.

REFERENCE DWGS
BB-50

REVIEWED BY STAFF	BY	DATE
UTILITIES		
TRAFFIC		
FIRE		
PLANNING		

CITY ENGINEER'S STAFF		BY	DATE
DRAWN	(PVT. ENGR.)	A.S./A.G.	
DESIGNED	(PVT. ENGR.)	V.T./D.R.G.	
CHECKED		WMC 1/3	
RECOMMENDED			

APPROVED BY
Robert F. Bendley
DIR. OF PUBLIC WORKS/CITY ENGINEER
DATE 3/14/94

CITY OF CHINO ENGINEERING DIVISION

1992 WATER IMPROVEMENT
KIMBALL AVENUE
FROM 477' WEST OF CYPRESS AVE. TO 523' EAST OF CYPRESS AVE.
STA. 59+00 TO STA. 69+00

PROJECT NO. CIP
SHEET 7 OF 28
DRAWING NO. CB-1031

JN. H006301 LKIM06.DWG DEC 30, 1993

SEE PIPE CROSSING DETAIL AT LOWER LEFT

EXISTING GROUND OVER ℄ OF PROPOSED 12" WATER MAIN

PROPOSED TOP OF 12" P.V.C. WATER MAIN

590 / 580 / 570

MATCH LINE STA. 69+00 — REFERENCE SHEET NO. 7

MATCH LINE STA. 79+00 — REFERENCE SHEET NO. 9

STA. 70+40 ℄ 12" GATE VALVE

STA. 70+61 ± ℄ 12" GATE VALVE

STA. 70+95 ℄ 2" AIR & VACUUM VALVE

STA. 70+97 ± ℄ 12" GATE VALVE

STA. 71+35 ℄ 12" GATE VALVE

STA. 71+37 ℄ 12" GATE VALVE

STA. 73+75 SCE 4" CONDUIT (5'-4" COVER)

54" MIN. COVER

54" MIN.COVER

INSTALL 12" CL50 DIP 90° BENDS (TYPICAL)

STA. 71+36 ℄ 6" BLOW-OFF & 12" X 12" X 6" TEE

EXIST. DBL 14' X 8' RCB

72.50±

567.59 T.P. EXIST. 15" VCP TO NORTH

△ 24" VCP SANITARY SEWER PROFILE 16' NORTH OF STREET ℄ BASED ON CONSTRUCTION DRAWINGS 6/69 (BB-50)

△ 15" VCP SANITARY SEWER PROFILE 16' NORTH OF STREET ℄ BASED ON RECORD DRAWINGS 8/93 (BA 1101)

SCALE: HORIZ.1"=40' VERT.1"=4'

69+00 / 70+00 / 71+00 / 72+00 / 73+00 / 74+00 / 75+00 / 76+00 / 77+00 / 78+00 / 79+00

SAN BERNARDINO COUNTY FLOOD CONTROL R/W (TYP)

STA.70+40 — 45° ELBOW — STA.70+44 — PROTECTION POSTS (TYP) — STA.70+61 ± — CONCRETE TRANSITION — STA.70+95 — STA.70+97 ± — STA.71+12 — 45° ELBOW — STA.71+35 — STA.71+36 — STA.71+37

NOTE: CAUTION, POSSIBLE UNKNOWN DRAINAGE OR IRRIGATION CROSSINGS BETWEEN STA.69+00 AND STA.79+00

15" VCP

PROTECT POWER-POLE IN PLACE (TYP.)

24" VCP — E.P. — 66.00' — 33.00' — 33'0" — 22' — 19'4" — 14' 14' — 2' — 16' — R/W — S 89°53'05" E — ℄ R/W — (℄ PAVEMENT STRIPE APPROX. 4' NORTH) — 85.00' — 52.00' — 7'4"

EXISTING 15"VCP SEWER

CITY OF CHINO SAN BERNARDINO COUNTY

CONSTRUCTION NOTES

1. CONSTRUCT THRUST BLOCK PER CITY OF CHINO STD. DWG. NO. 460 AND 16" THRUST BLOCK TABLE ON SHEETS 11 THROUGH 19.
2. INSTALL 12" P.V.C. A.W.W.A. C-900 CL200 WATER MAIN PER CITY OF CHINO STD. DWG. NO. 155 AND TYPICAL SECTION ON SHEET 2
5. INSTALL 12" RESILIENT WEDGE GATE VALVE (AWWA C609) AND VALVE STEM EXTENSIONS PER CITY OF CHINO STD. NO. 450
7. INSTALL 12" D.I.P. A.W.W.A. C-110 CL50 WATER MAIN PER CITY OF CHINO STD. DWG. NO. 155 AND PIPE CROSSING DETAIL HEREON.
8. CONSTRUCT ALL MISCELLANEOUS WORK NECESSARY TO INSTALL PIPE CROSSING
9. INSTALL 2" AIR & VACUUM VALVE ASSEMBLY PER CITY OF CHINO STD. NO. 435
12. INSTALL 12" X 12" X 6" TEE AND FIRE HYDRANT ASSEMBLY PER CITY OF CHINO STD. 445. REPLACE HYDRANT AND BREAKAWAY COUPLING WITH FLANGED END AND BLIND FLANGE AT SURFACE.

FLGxFLG DIP 90° ELBOW

INSTALL PIPE SUCH THAT AIR/VAC VALVE END IS 0.1' HIGHER THAN WEST END

12" CL50 C-110 DIP FLGxFLG

CONSTRUCT & INSTALL BRACKETS PER DETAIL BELOW RIGHT (4 REQ'D)

2" AIR & VACUUM VALVE

EXIST. PARAPET & RAILING

12" CL50 C-110 DIP FLGxFLG

9.0' — 2.0' — 9.0' — 2.0' — 1.5' CLR (TYP.) — 1.5' CLR (TYP.)

FLGxFLG DIP 90° ELBOW

PVCxFLG RESTRAINED ADAPTOR

12" CL200 C-900 PVC

12" CL200 C-900 PVC

PVCxFLG RESTRAINED ADAPTOR

EXIST. DBL 14'X8' RCB

PIPE CROSSING DETAIL

N.T.S. (USE FLANGED JOINTS)

NOTE : ALL FITTINGS SHALL BE DUCTILE IRON AND SHALL BE JOINED USING LOCKING RETAINING GLANDS.

EXIST. PARAPET WALL AND RAILING

12" ±

584.60 (TOP OF WALL)

DRILL & ANCHOR BRACKET USING 5/8"DIA.x 8" CONCRETE EXPANSION ANCHORS.

PIPE BEARING ON 1/2" THICK ELASTOMERIC PADS PER CALTRANS STD. SPECIFICATIONS 51-1.12H (TYP.)

4'-1" ±

FABRICATE BRACKET AND PIPE CRADLE WITH PIPE CLAMPS. SUBMIT SHOP DRAWINGS TO ENGINEER BEFORE FABRICATION. ABOVE GROUND EXTERIOR PORTIONS OF PIPE & APPURTENANCES SHALL BE COATED IN ACCORDANCE WITH AWWA C203-91.

PIPE HANGER DETAIL

N.T.S.

8"ø SCHEDULE 40 STEEL PIPE — FILL W/ CONC. AND PAINT PER CITY OF CHINO STD. DWG. NO. 445 NOTE NO. 11

4'-0" — 6" — 3'-6" — 6" — CONCRETE — 18" DIA.

PROTECTION POST DETAIL

N.T.S.

KIMBALL AVENUE

RECORD DRAWING 6/20/96

SCALE: 1"=40'

3 INCHES ON ORIGINAL DRAWING

SCALE STRIP

N

SEAL — REGISTERED PROFESSIONAL ENGINEER — RAMSAY M. McDERMID — NO. C21900 EXP. 9-30-93 — CIVIL — STATE OF CALIFORNIA

CALL TOLL FREE 1-800-422-4133 in Southern California — Two working days before you dig.

JN. H006301 LKIM07.DWG DEC 30, 1993

PREPARED BY		REVISIONS	MADE BY	MADE DATE	APPROVED BY	APPROVED DATE
FIRM	GREINER, INC.	ADDED SEWER PROFILE	GED	6/20/96	RM	12/93
ADDRESS	BLDG. 200, SUITE 253--5225 CANYON CREST DR.	"As Built"				
	RIVERSIDE, CALIFORNIA 92507-6323					
TEL. (714) 788-7746						
SIGNATURE	RAMSAY M. McDERMID — DATE 1/3/94					

BENCH MARK DATA: NO. 141/69 ELEV. 685.9684. LOCATION: A 6" ø CONC. POST WITH A 2-1/2" BRASS DISC, FLUSH, AND 4"x4"x6' REDWOOD WITNESS POST, 1' WEST OF MONUMENT, 33' WEST AND 31' NORTH OF THE ℄ INTERSECTION OF FERN AVE. & EDISON AVE.

REFERENCE DWGS: BA 1101; BB 52

REVIEWED BY STAFF	BY	DATE
UTILITIES		
TRAFFIC		
FIRE		
PLANNING		

CITY ENGINEER'S STAFF	BY	DATE
DRAWN (PVT. ENGR.)	A.S./A.G.	
DESIGNED (PVT. ENGR.)	V.T./D.R.G.	
CHECKED	MMC 1/3	
RECOMMENDED		

APPROVED BY: Robert F. Bendsley — DIR. OF PUBLIC WORKS/CITY ENGINEER — DATE 3/14/94

CITY OF CHINO ENGINEERING DIVISION

1992 WATER IMPROVEMENT

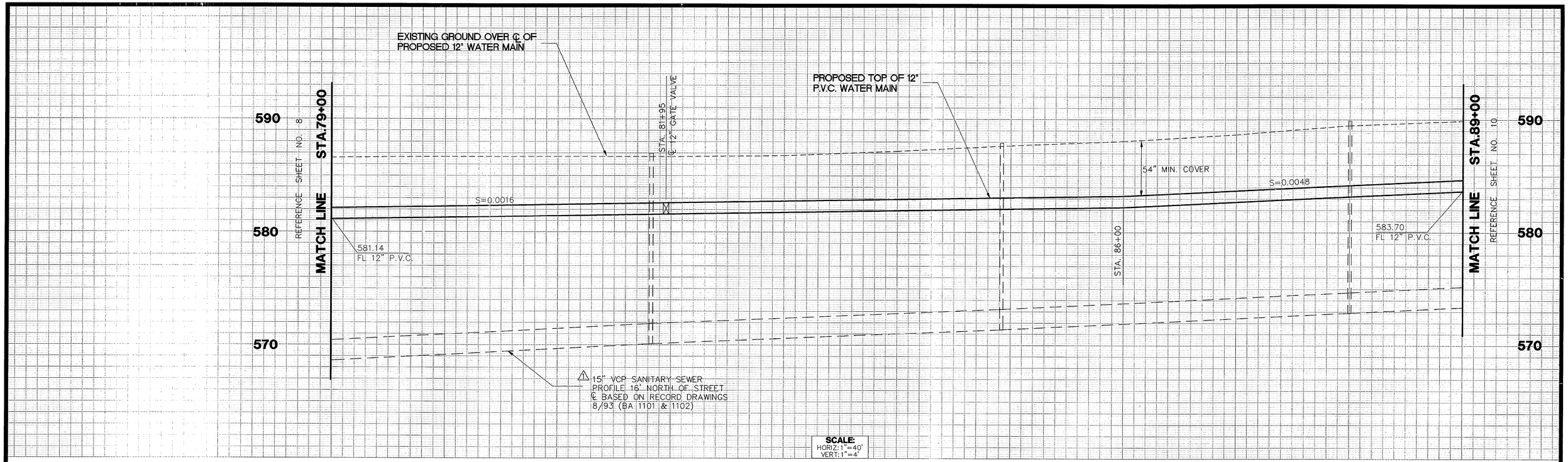
KIMBALL AVENUE

FROM 523' EAST OF CYPRESS AVE. TO 1523' EAST OF CYPRESS AVE.
STA. 69+00 TO STA. 79+00

PROJECT NO. CIP

SHEET 8 OF 28

DRAWING NO. CB-1032



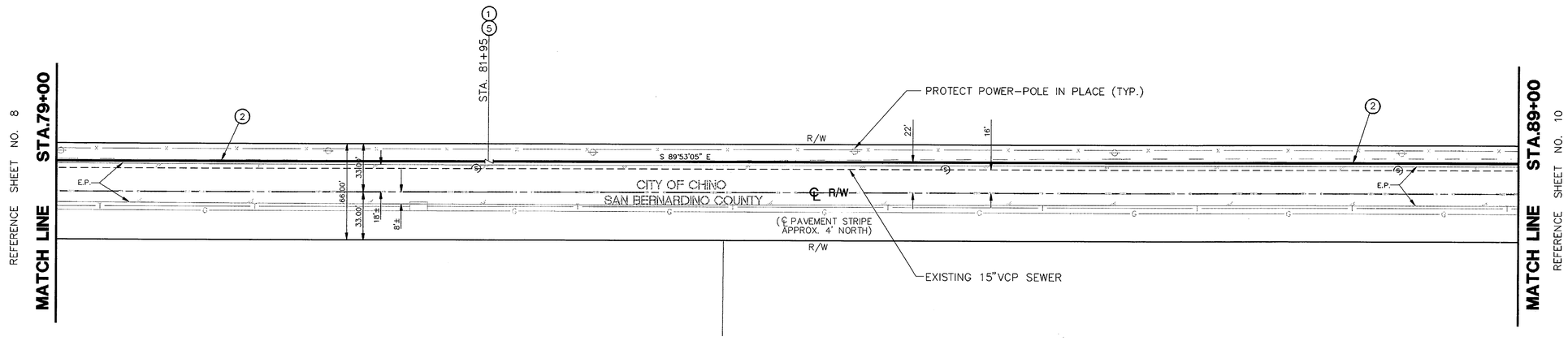
CONSTRUCTION NOTES

(1) CONSTRUCT THRUST BLOCK PER CITY OF CHINO STD. DWG. NO. 460 AND 16" THRUST BLOCK TABLE ON THIS SHEET.

(2) INSTALL 12" P.V.C. A.W.W.A. C-900 CL200 WATER MAIN PER CITY OF CHINO STANDARD DRAWING NO. 155 AND TYPICAL SECTION ON SHEET 2

(5) INSTALL 12" RESILIENT WEDGE GATE VALVE (AWWA C609) AND VALVE STEM EXTENSIONS PER CITY OF CHINO STD. NO. 450

NOTE: CAUTION, POSSIBLE UNKNOWN DRAINAGE OR IRRIGATION CROSSINGS BETWEEN STA.79+00 AND STA.89+00



KIMBALL AVENUE

NOTE :
ALL FITTINGS SHALL BE DUCTILE IRON AND SHALL BE JOINED USING LOCKING RETAINING GLANDS.

SCALE: 1"=40'

3 INCHES ON ORIGINAL DRAWING

RECORD DRAWING 6/20/96 GED

SCALE STRIP

SEAL

REGISTERED PROFESSIONAL ENGINEER RAMSAY M. McDERMID NO. C21900 EXP. 9-30-93 CIVIL STATE OF CALIFORNIA

CALL: TOLL FREE 1-800-422-4133 in Southern California

Two working days before you dig.

PREPARED BY	
FIRM	GREINER, INC.
ADDRESS	BLDG. 200, SUITE 253--5225 CANYON CREST DR. RIVERSIDE, CALIFORNIA 92507-6323
TEL. (714) 788-7746	
SIGNATURE	RAMSAY M. McDERMID DATE 1/3/94

REVISIONS	MADE BY	MADE DATE	APPROVED BY	APPROVED DATE
⚠1 ADDED SEWER PROFILE			RM	12/93
⚠2 "As Built" (No Changes)	GED	6/20/96		
⚠3				
⚠4				
⚠5				

BENCH MARK DATA
NO. 141/69 ELEV. 685.9684
LOCATION: A 6" ø CONC. POST WITH A 2-1/2" BRASS DISC, FLUSH, AND 4"x4"x6' REDWOOD WITNESS POST, 1' WEST OF MONUMENT, 33' WEST AND 31' NORTH OF THE ℄ INTERSECTION OF FERN AVE. & EDISON AVE.

REFERENCE DWGS
BA-1101
BA-1102

REVIEWED BY STAFF	BY	DATE
UTILITIES		
TRAFFIC		
FIRE		
PLANNING		

CITY ENGINEER'S STAFF		BY	DATE
DRAWN	(PVT. ENGR.)	A.S./A.G.	
DESIGNED	(PVT. ENGR.)	V.T./D.R.G.	
CHECKED		KMC 1/3	
RECOMMENDED			

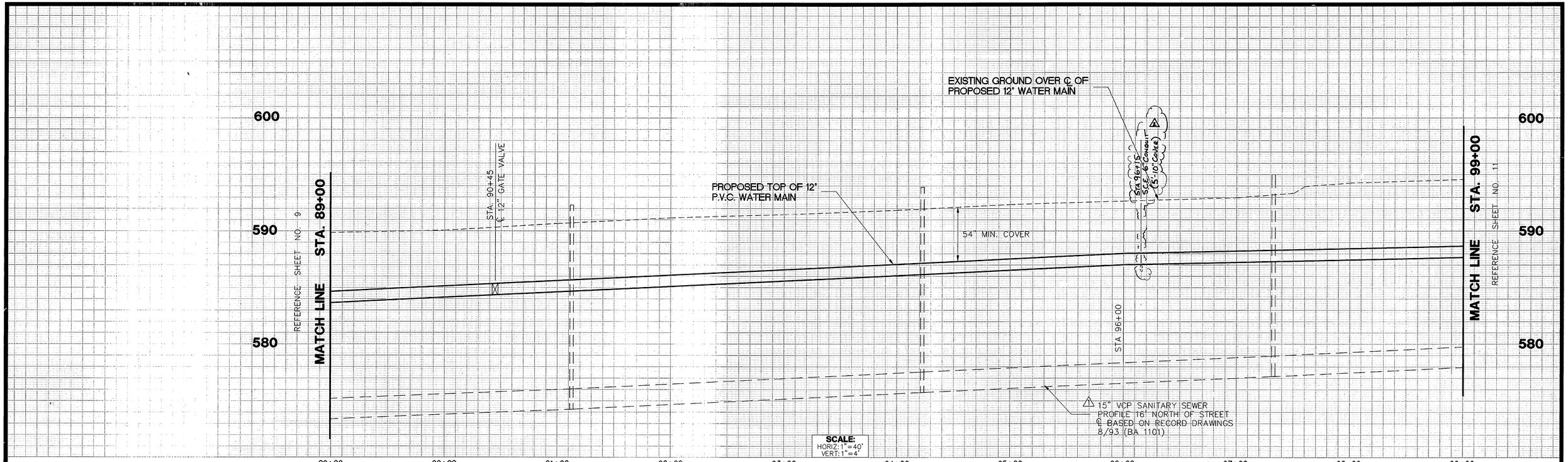
APPROVED BY
Robert F. Beardsley
DIR. OF PUBLIC WORKS/CITY ENGINEER
DATE 3/14/94

CITY OF CHINO ENGINEERING DIVISION

1992 WATER IMPROVEMENT
KIMBALL AVENUE
FROM 1523' EAST OF CYPRESS AVE. TO 2523' EAST OF CYPRESS AVE.
STA. 79+00 TO STA. 89+00

PROJECT NO. CIP
SHEET 9 OF 28
DRAWING NO. CB-1033

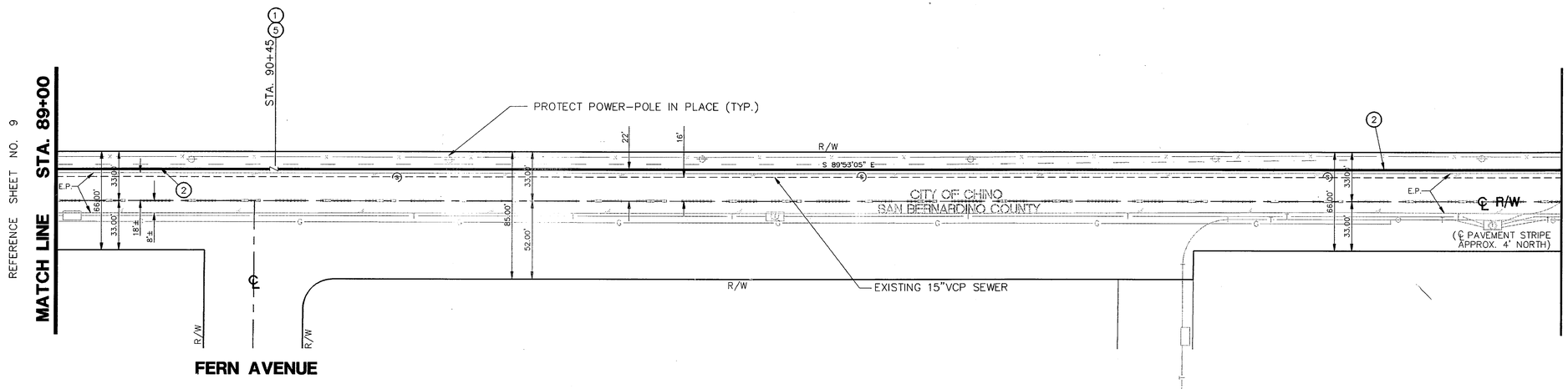
JN: H0063O1 LKIM08.DGN DEC 30, 1993



CONSTRUCTION NOTES

1. CONSTRUCT THRUST BLOCK PER CITY OF CHINO STD. DWG. NO. 460 AND 16" THRUST BLOCK TABLE ON THIS SHEET.
2. INSTALL 12" P.V.C. A.W.W.A. C-900 CL200 WATER MAIN PER CITY OF CHINO STD. DWG. NO. 155 AND TYPICAL SECTION ON SHEET 2
5. INSTALL 12" RESILIENT WEDGE GATE VALVE (AWWA C609) AND VALVE STEM EXTENSIONS PER CITY OF CHINO STD. NO. 450

NOTE: CAUTION, POSSIBLE UNKNOWN DRAINAGE OR IRRIGATION CROSSINGS BETWEEN STA.89+00 AND STA.99+00



KIMBALL AVENUE

NOTE :
ALL FITTINGS SHALL BE DUCTILE IRON AND SHALL BE JOINED USING LOCKING RETAINING GLANDS.

SCALE: 1"=40'

0 1 2 3
1/10 1/16
0 1 2 3
3 INCHES ON ORIGINAL DRAWING
SCALE STRIP

N

RECORD DRAWING 1/20/96 GED

SEAL

REGISTERED PROFESSIONAL ENGINEER RAMSAY M. McDERMID NO. C21900 EXP. 9-30-93 CIVIL STATE OF CALIFORNIA

CALL: TOLL FREE 1-800-422-4133 in Southern California
Two working days before you dig.

PREPARED BY		REVISIONS	MADE BY	MADE DATE	APPROVED BY	APPROVED DATE
FIRM	GREINER, INC.	1 ADDED SEWER PROFILE			RM	12/93
ADDRESS	BLDG. 200, SUITE 253--5225 CANYON CREST DR.	2 "As Built"	GED	6/20/96		
	RIVERSIDE, CALIFORNIA 92507-6323	3				
TEL.	(714) 788-7746	4				
SIGNATURE	Ramsay M. McDermid RAMSAY M. McDERMID	5				
DATE	11/3/93	6				

BENCH MARK DATA
NO. 141/69 ELEV. 685.9684
LOCATION: A 5" ø CONC. POST WITH A 2-1/2" BRASS DISC, FLUSH, AND 4"x4"x6' REDWOOD WITNESS POST, 1' WEST OF MONUMENT, 33' WEST AND 31' NORTH OF THE ℄ INTERSECTION OF FERN AVE. & EDISON AVE.

REFERENCE DWGS
BA-1101
BA-1102
BA-1103

REVIEWED BY STAFF	BY	DATE
UTILITIES		
TRAFFIC		
FIRE		
PLANNING		

CITY ENGINEER'S STAFF	BY	DATE
DRAWN (PVT. ENGR.)	A.S./A.G.	
DESIGNED (PVT. ENGR.)	V.T./D.R.G.	
CHECKED		
RECOMMENDED		

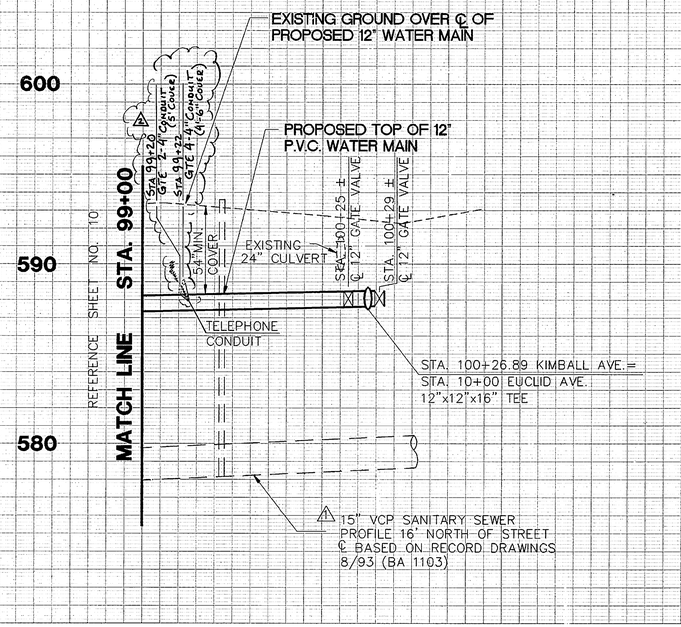
APPROVED BY
Robert F. Bendley
DIR. OF PUBLIC WORKS/CITY ENGINEER
DATE 3/14/94

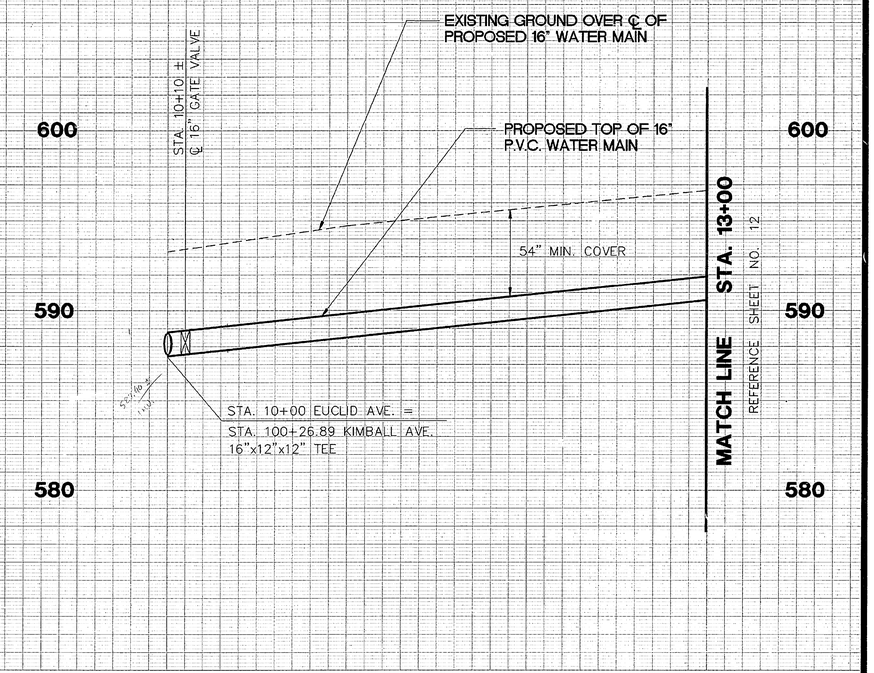
CITY OF CHINO ENGINEERING DIVISION

1992 WATER IMPROVEMENT
KIMBALL AVENUE
FROM 132' WEST OF FERN AVE. TO 868' EAST OF FERN AVE.
STA. 89+00 TO STA. 99+00

PROJECT NO. CIP
SHEET 10 OF 28
DRAWING NO. CB-1034

JN. H006301 LKIM09.DGN DEC 30,1993





SCALE:
HORIZ: 1"=40'
VERT: 1"=4'

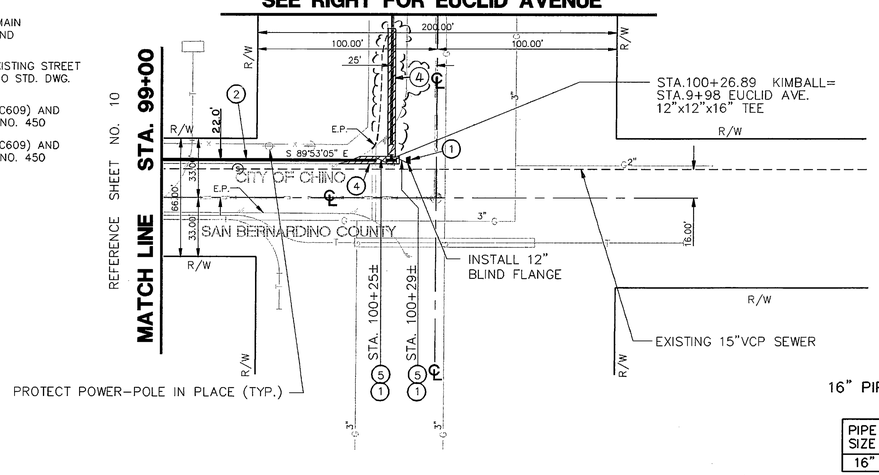
CONSTRUCTION NOTES

1. CONSTRUCT THRUST BLOCK PER CITY OF CHINO STD. DWG. NO. 460 AND 16" THRUST BLOCK TABLE ON THIS SHEET.
2. INSTALL 12" P.V.C. A.W.W.A. C-900 CL200 WATER MAIN PER CITY OF CHINO STANDARD DRAWING NO. 155 AND TYPICAL SECTION ON SHEET 2
3. INSTALL 16" P.V.C. A.W.W.A. C-905 CL165 WATER MAIN PER CITY OF CHINO STANDARD DRAWING NO. 155 AND TYPICAL SECTION ON SHEET 12
4. SAW-CUT EXISTING AC PAVEMENT AND REPLACE EXISTING STREET SECTION PLUS 1" ADDITIONAL AC PER CITY OF CHINO STD. DWG. NO. 155.
5. INSTALL 12" RESILIENT WEDGE GATE VALVE (AWWA C609) AND VALVE STEM EXTENSIONS PER CITY OF CHINO STD. NO. 450
6. INSTALL 16" RESILIENT WEDGE GATE VALVE (AWWA C609) AND VALVE STEM EXTENSIONS PER CITY OF CHINO STD. NO. 450

NOTE: CAUTION, POSSIBLE UNKNOWN DRAINAGE OR IRRIGATION CROSSINGS BETWEEN STA.99+00 AND STA.100+26.89

EUCLID AVENUE
(STATE ROUTE 83)

SEE RIGHT FOR EUCLID AVENUE



EUCLID AVENUE
(STATE ROUTE 83)

16" PIPE THRUST BLOCK BEARING AREA
SEE STD. DWG. NO. 460

PIPE SIZE	BEARING	AREA IN SQUARE FEET		
	TEES/ENDS	90°	45°	22 1/2°
16"	26	37	20	10

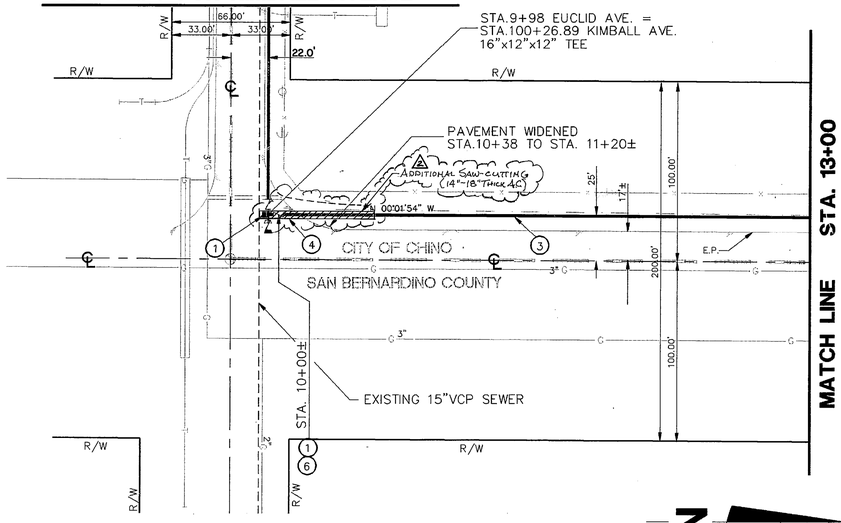
NOTES :
ALL FITTINGS SHALL BE DUCTILE IRON AND SHALL BE JOINED USING LOCKING RETAINING GLANDS.

SCALE: 1"=40'

KIMBALL AVENUE

KIMBALL AVENUE

SEE LEFT FOR KIMBALL AVENUE



KIMBALL AVENUE

SCALE: 1"=40'

0 1 2 3
1/10
1/16
0 1 2 3
3 INCHES ON ORIGINAL DRAWING
SCALE STRIP

EUCLID AVENUE
(STATE ROUTE 83)

RECORD DRAWING 4/20/96 BEC

SEAL

REGISTERED PROFESSIONAL ENGINEER
RAMSAY M. McDERMID
NO. C21900
EXP. 9-30-93
CIVIL
STATE OF CALIFORNIA

CALL: TOLL FREE 1-800-422-4133 in Southern California
Two working days before you dig.

PREPARED BY		REVISIONS	MADE BY	MADE DATE	APPROVED BY	APPROVED DATE
FIRM	GREINER, INC.	1 ADDED SEWER PROFILE			RM	12/93
ADDRESS	BLDG. 200, SUITE 253--5225 CANYON CREST DR.	2 "As Built"	BEC	6/20/96		
	RIVERSIDE, CALIFORNIA 92507-6323	3				
TEL. (714)	788-7746	4				
SIGNATURE	RAMSAY M. McDERMID DATE 12/2/94	5				
		6				

BENCH MARK DATA
NO. 141/69 ELEV. 685.9684
LOCATION: A 6" ø CONC. POST WITH A 2-1/2" BRASS DISC, FLUSH, AND 4"x4"x6' REDWOOD WITNESS POST, 1' WEST OF MONUMENT, 33' WEST AND 31' NORTH OF THE ℄ INTERSECTION OF FERN AVE. & EDISON AVE.

REFERENCE DWGS
BA-1103

REVIEWED BY STAFF	BY	DATE
UTILITIES		
TRAFFIC		
FIRE		
PLANNING		

CITY ENGINEER'S STAFF	BY	DATE
DRAWN (PVT. ENGR.)	A.S./A.G.	
DESIGNED (PVT. ENGR.)	V.T./D.R.G.	
CHECKED		
RECOMMENDED		

APPROVED BY
DIR. OF PUBLIC WORKS/CITY ENGINEER
DATE 3/14/94

CITY OF CHINO ENGINEERING DIVISION

1992 WATER IMPROVEMENT

KIMBALL AVENUE
FROM 868' EAST OF FERN AVE. TO EUCLID AVENUE
STA. 99+00 TO STA. 100+26.89

EUCLID AVENUE
FROM KIMBALL AVENUE TO 302' NORTH OF KIMBALL AVENUE
STA. 9+98 TO STA. 13+00

PROJECT NO. CIP
SHEET 11 OF 28
DRAWING NO. CB-1035

JN. H006301 LKIM10.DWG DEC 30, 1993