

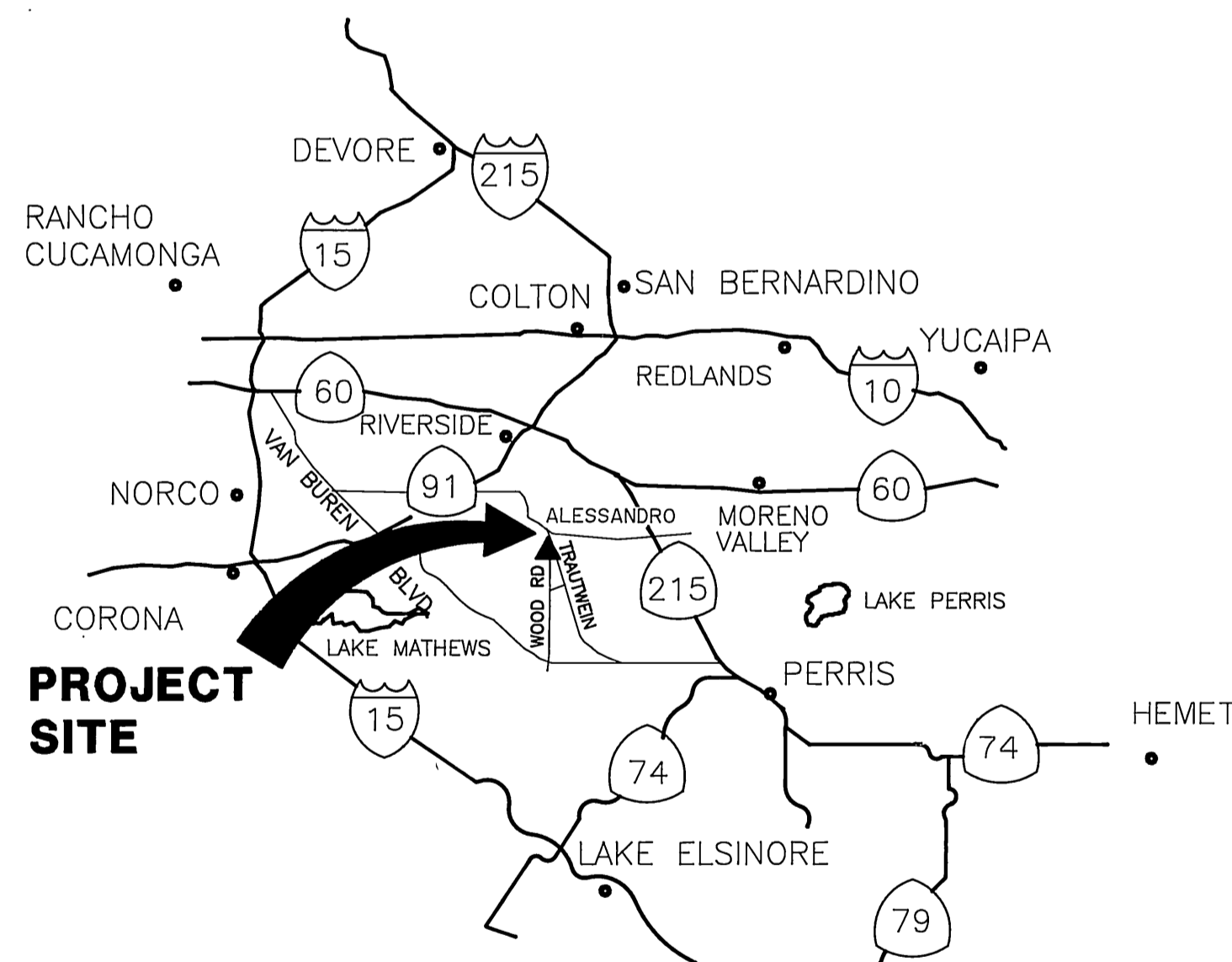
CITY OF RIVERSIDE, CALIFORNIA
 PROPOSED CONSTRUCTION PLANS
 FOR
**WOOD ROAD
 SEWAGE LIFT STATION
 EXPANSION**
 COMMUNITY FACILITIES DISTRICT 86-1

SHEET INDEX

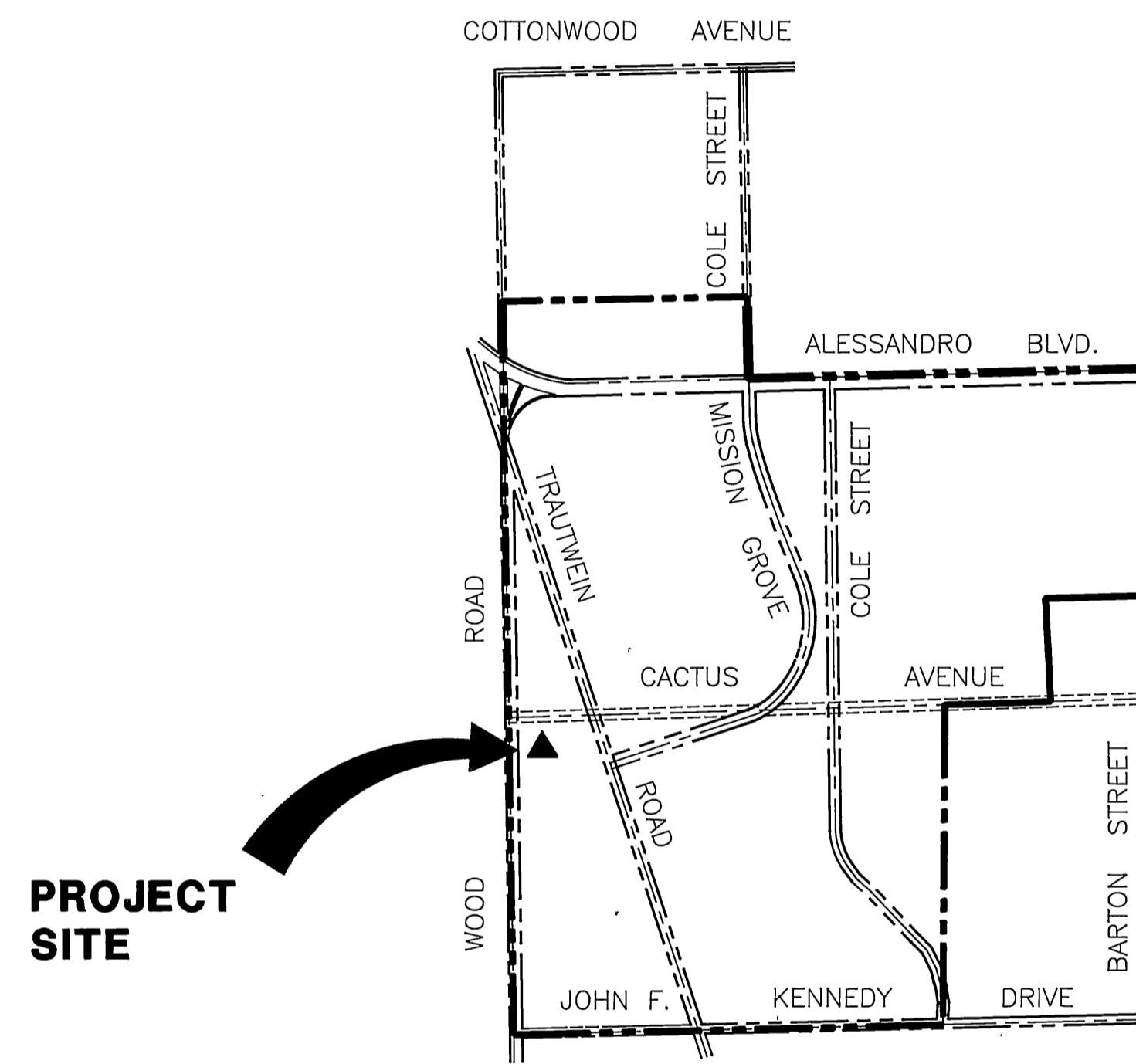
SHEET No.	TITLE
1	TITLE SHEET
2	SEWAGE LIFT STATION PLAN VIEW
3	SEWAGE LIFT STATION SECTION A VIEW
4	SEWAGE LIFT STATION EXPANSION SECTION B VIEW
5	SEWAGE LIFT STATION ELECTRICAL CONTROL PLAN
6	SEWAGE LIFT STATION ELECTRICAL LINE DIAGRAM
7	SEWAGE LIFT STATION ELECTRICAL PLAN VIEW
8	SEWAGE LIFT STATION ELECTRICAL SECTION A VIEW
9	SEWAGE LIFT STATION ELECTRICAL SECTION B VIEW

GENERAL NOTES:

- CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS, WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE. ALL IMPROVEMENTS DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE EXPEDITIOUSLY REPAIRED OR RECONSTRUCTED TO THE ENGINEER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE WITHOUT ADDITIONAL COMPENSATION.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" 1988 EDITION, AND ANY SUPPLEMENTS, ALONG WITH CITY OF RIVERSIDE STANDARD DWGS.
- THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY & ACCEPTABILITY OF THE WORK HEREON. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION & REVISING THE PLANS FOR APPROVAL BY THE CITY.



VICINITY MAP



LOCATION MAP

SCALE: 1"=1200'

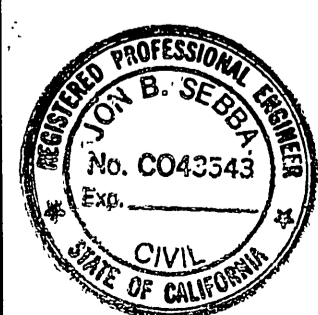
- ▲ SEWER LIFT STATION EXPANSION SITE.
- COMMUNITY FACILITIES DISTRICT 86-1 BOUNDARY.

Underground Service Alert



PRIVATE ENGINEERING NOTE

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.



PREPARED UNDER THE DIRECTION OF:

REGISTERED CIVIL ENGINEER NO. 43543
 EXPIRATION DATE: 6-30-92 DATE: 8-29-90

APPROVED BY:



J.F. Davidson Associates, Inc.

ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
 3880 Leimon Street, Suite 300 P.O. Box 493 Riverside, CA 92502 (714) 686-0844 FAX 714-686-5954
 11200 S. Mt. Vernon Ave., Suite "D" Colton, CA 92324 (714) 925-1082
 73-080 El Paseo, Suite 106 Palm Desert, CA 92260 (619) 345-5511 FAX 619-340-0529

SCALE: AS SHOWN
 DATE: JUNE 1990

BENCH MARK: DATE: 1971 RIVERSIDE COUNTY ELEV: 1700.670
 BRASS DISK, FLUSH & MARKED V.B. 10-64, 0.6 MI. E. ON VAN BUREN BLVD. FROM INT. OF VAN BUREN & WOOD RD. 206' N. OF VAN BUREN AT THE GRANT BOULDER ON TOP OF 3' x 16' x 16' BOULDER.

MARK	REVISIONS	APPR.	DATE

DESIGNED BY RC DRAWN BY DM CHECKED BY RC

**CITY OF RIVERSIDE, CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS**

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER	<i>[Signature]</i>	10/15/90
PARK DEPARTMENT		
TRAFFIC DIVISION		
CHIEF P.W. ENGR.	<i>[Signature]</i>	10/15/90

APPROVED BY	BY	DATE
DIRECTOR OF PUBLIC WORKS	<i>[Signature]</i>	10/15/90

CFD 86-1
**WOOD ROAD
 SEWAGE LIFT STATION
 -EXPANSION
 TITLE SHEET**

HORIZ. SCALE: 1" VERT. SCALE: 1"

PROJECT NO. 27-526-381

S-1430D

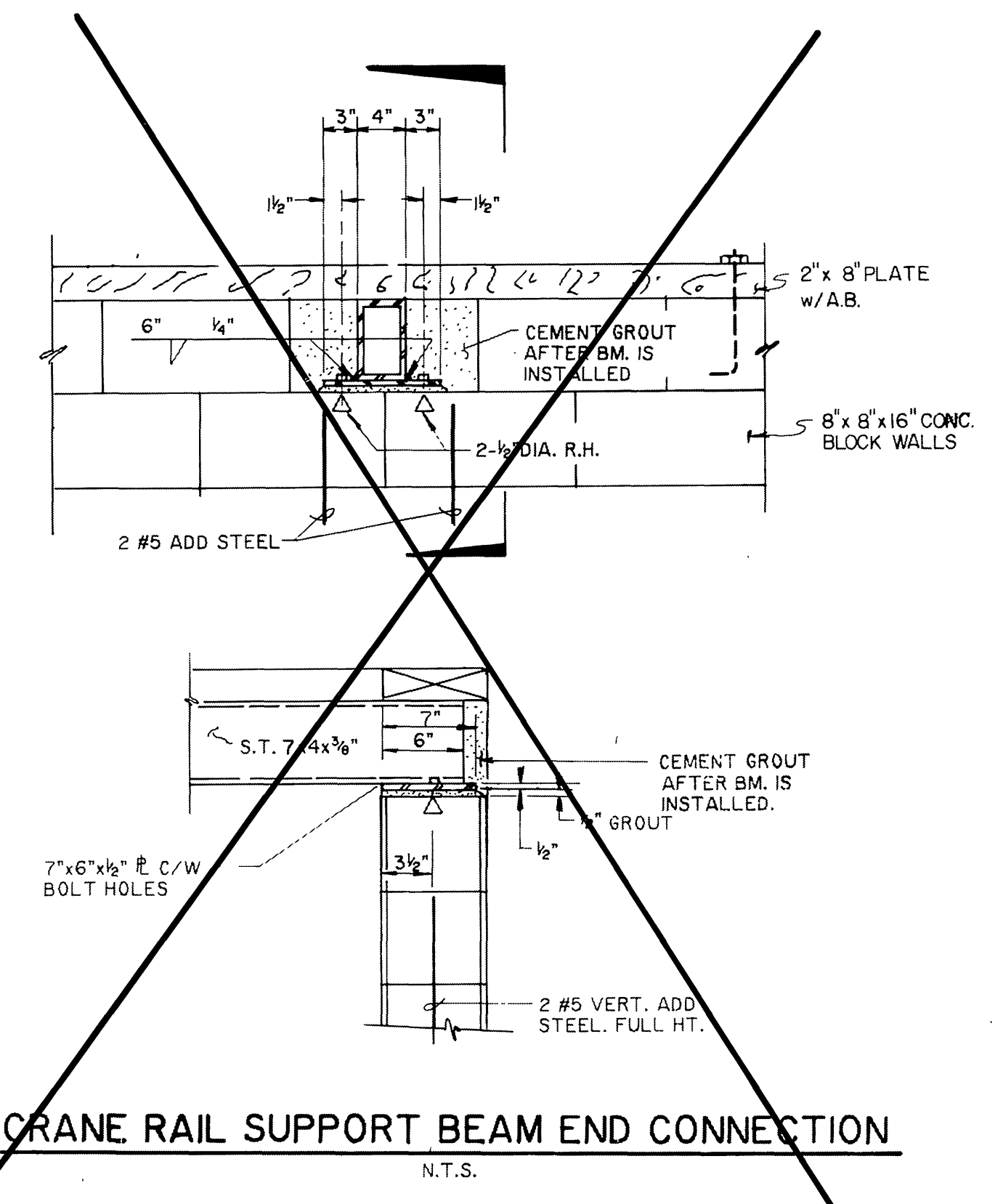
SHEET **1** OF 9

FILE NO: 9011994

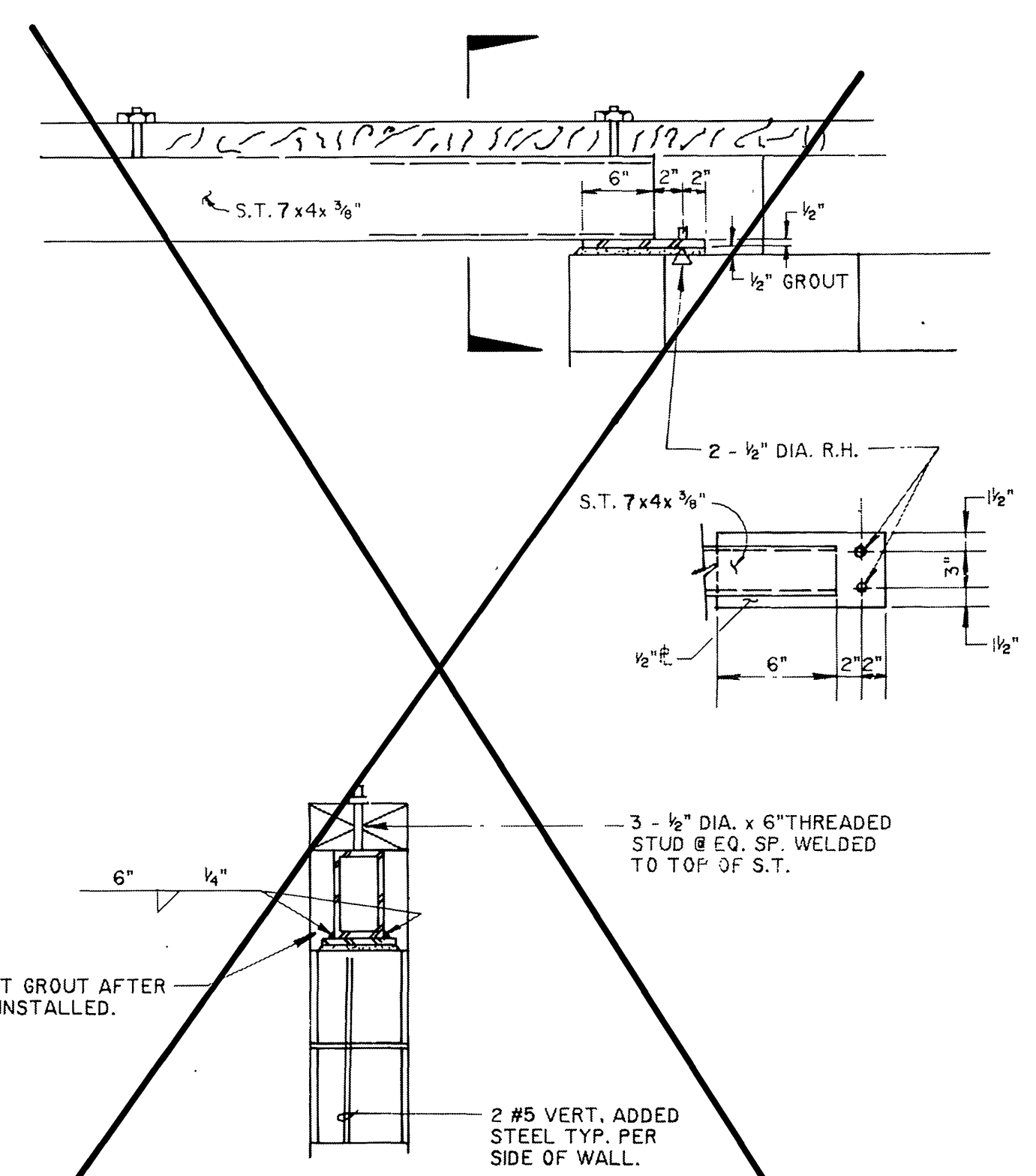
INDEXED 2-6-91 4H

EQUIPMENT LIST FOR EXPANSION

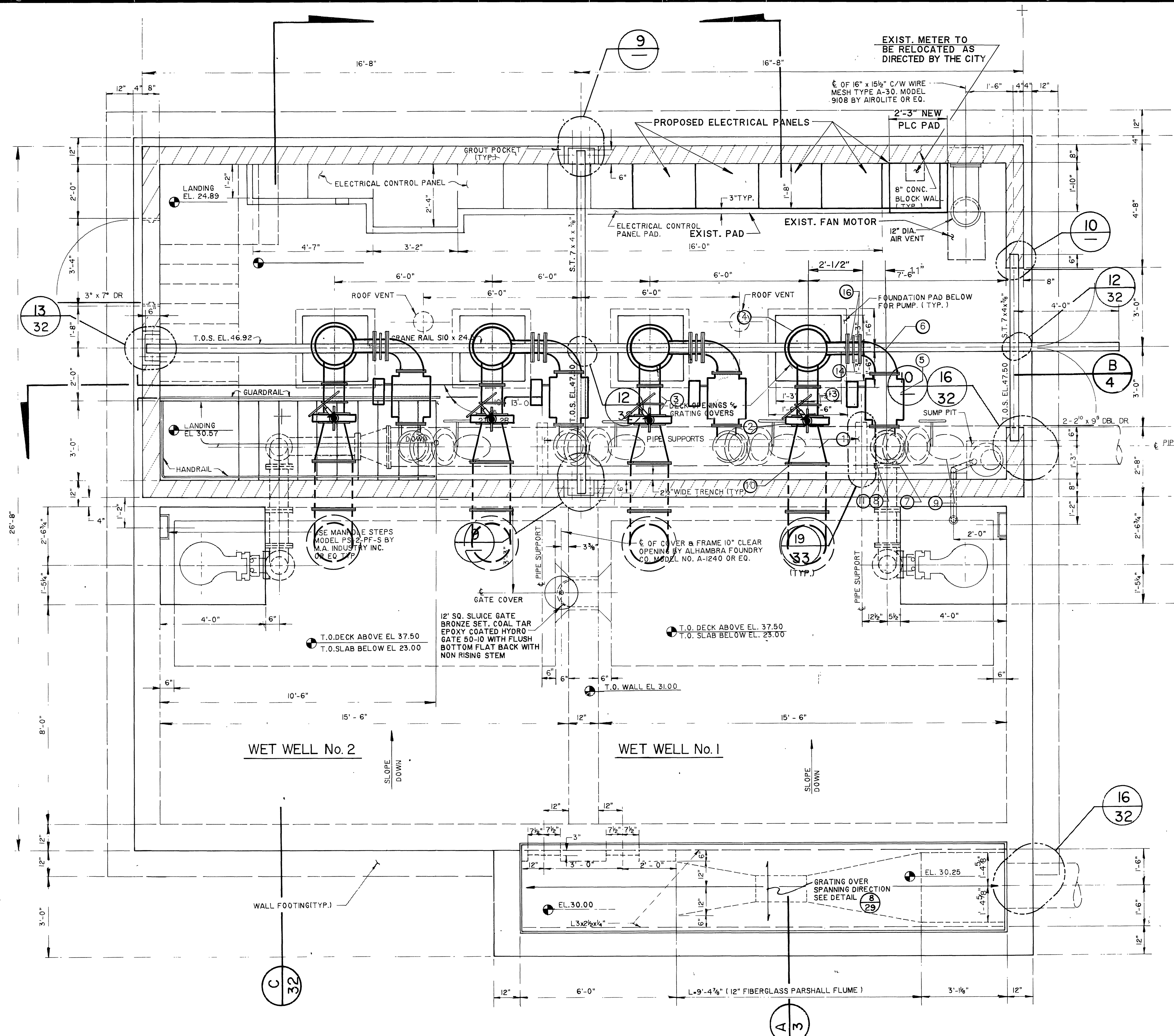
SEE SHEET No. 3



9 CRANE RAIL SUPPORT BEAM END CONNECTION
N.T.S.



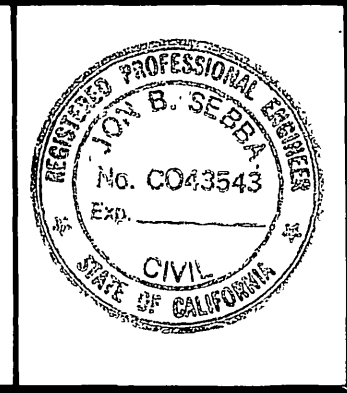
10 HEADER BEAM CONNECTION
N.T.S.



PUMP STATION PLAN VIEW
SCALE 1/2" = 1'-0"

Underground Service Alert
Call: TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

PRIVATE ENGINEERING NOTE
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PREPARED UNDER THE DIRECTION OF:
J. Seibert
REGISTERED CIVIL ENGINEER No. 43543
EXPIRATION DATE: 6-30-12 DATE: 8-29-90
APPROVED BY:

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300 P.O. Box 493 Riverside, CA 92502 (714) 686-0344 FAX 714-686-5954
11200 S. Mt. Vernon Ave., Suite 107 Colton, CA 92324 (714) 825-1082
73-080 El Paseo, Suite 106 Palm Desert, CA 92260 (619) 346-5591 FAX 619-346-0529

SCALE: AS SHOWN
DATE: APRIL 1990
BENCH MARK: DATE: 1971 RIVERSIDE COUNTY ELEV. 1700.670 BRASS DISK FLUSH & MARKED V.B.10-6.4, 0.6 MI E. ON VAN BUREN BLVD. FROM INT. OF VAN BUREN & WOOD RD. 206' N. OF VAN BUREN AT THE GRANT BOULDER ON TOP OF 3' X 18' X 18' BOULDER.

MARK	REVISIONS	APPR.	DATE
DESIGNED BY: RC	DRAWN BY: RH	CHECKED BY: RC	

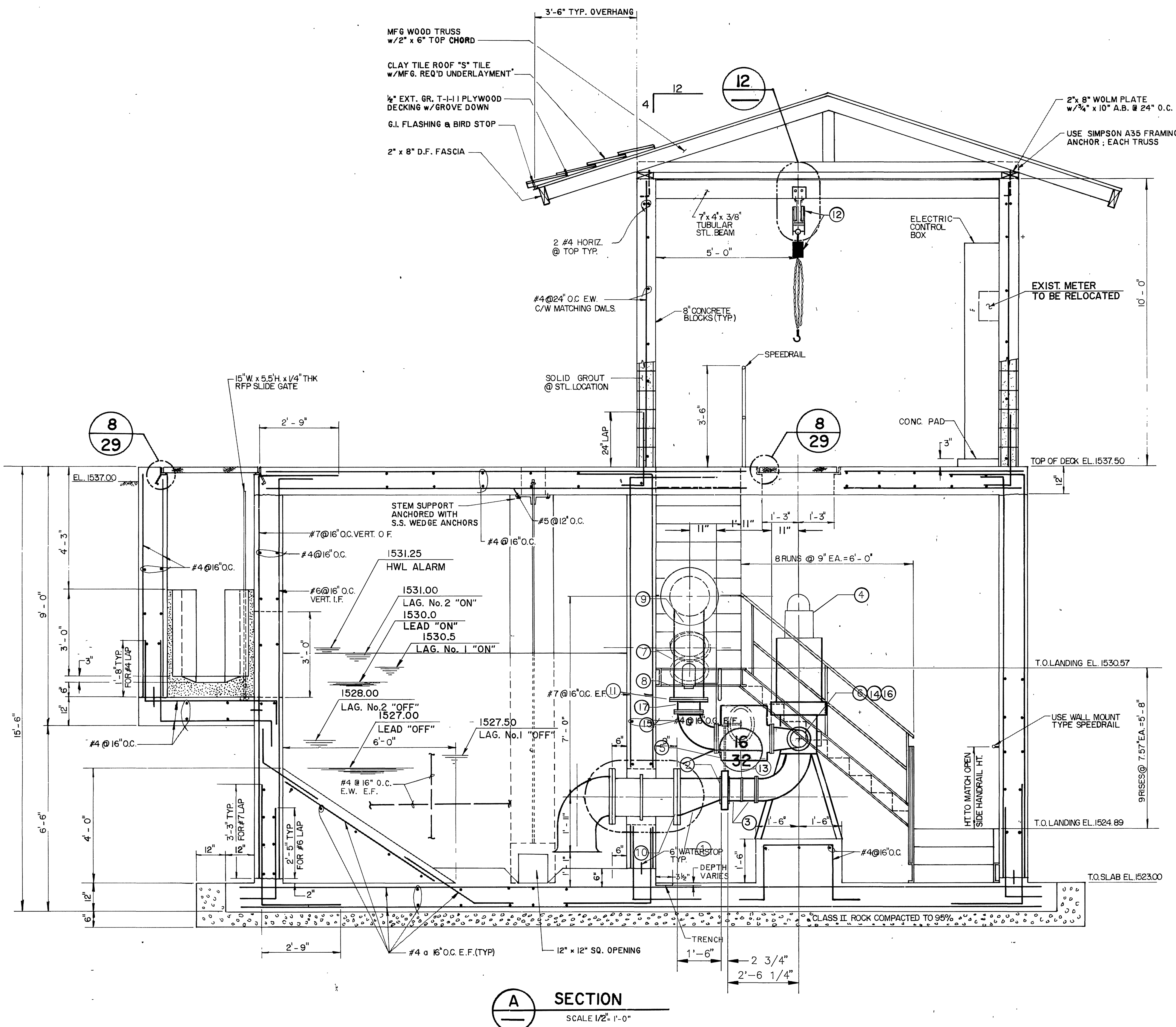
CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS		
APPROVED BY:	BY:	DATE:
PRINCIPAL ENGINEER	<i>[Signature]</i>	10/15/90
APPROVED BY:	BY:	DATE:
DIRECTOR OF PUBLIC WORKS	<i>[Signature]</i>	10/15/90

**WOOD ROAD
SEWAGE LIFT STATION
EXPANSION**
PLAN VIEW
HORIZ. SCALE: 1" = 100'
VERT. SCALE: 1" = 10'

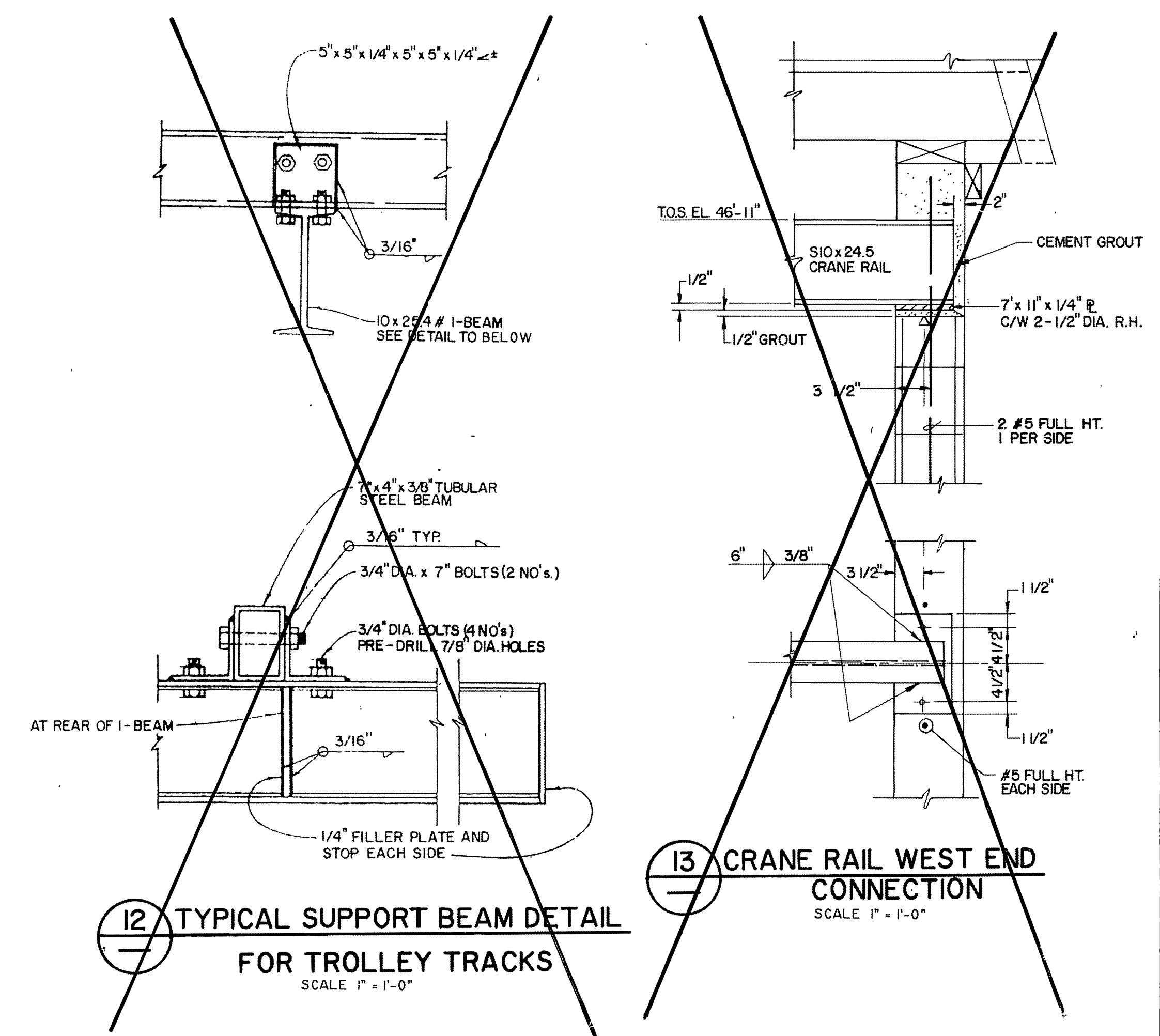
PROJECT NO. 27-526-381
S-1430D
SHEET 2 OF 9
FILE NO: 9011934

INDEXED 2-6-91 lht

NOTE:
 PROVIDE A PAINTED WOODEN SIGN ATTACHED
 TO WEST SIDE OF BUILDING TO READ "CITY OF
 RIVERSIDE "TRAUTWEIN PUMP STATION".



EQUIPMENT LIST FOR EXPANSION		
ITEM NO.		QTY.
1	16" X 10" D.I. ECCENTRIC REDUCER.	4
2	10" DIA. KNIFE GATE VALVE, RESILIENT SET WITH BEVEL GEAR ACTUATOR, "DEZURIK, FIG. '801 RS16".	4
3	10" DIA. D.I.P. FLANGED BY VICTAULIC GROOVED END NIPPLE. LENGTH TO BE FIELD FITTED.	8
4	SUBMERSIBLE PUMP MOTOR. 150 HP, VARIABLE SPEED, 1600 GPM.	4
5	10" DIA. OIL CUSHIONED SWING CHECK VALVE "APCO SERIES 6100".	4
6	10" X 6" D.I. 90° REDUCING ELL. (FLG'D).	4
7	12" DIA. FLG'D PLUG VALVE, ROTARY GEAR ACTUATOR "DEZURIK", FIG. 118-F-6RS17, AGG6H12, KEYSITE 740 (3 COATS 10 TO 12 MIN. HOLIDAY TEST).(UTILIZE EXIST. PLUG VALVES)	0
8	12" DIA. D.I. 45° ELL. (FLG'D). UTILIZE TWO EXISTING ELBOWS.	2
9	EXISTING 16" X 16" X 12" D.I. FLG'D WYE.	0
10	EXISTING 16" DIA. D.I.P. REMOVE EXIST. BLIND FLANGE.	0
11	10" X 12" THREADED FLANGE ADAPTOR D.I.	1
12	TROLLEY AND HAND HOIST APPARATUS.	1
13	10" DIA. COUPLING, VICTAULIC STYLE 77.	1
14	6" DIA. COUPLING, VICTAULIC STYLE 77.	1
15	10" DIA. D.I. 90° ELL. (FLG'D).	4
16	6" DIA. D.I.P. FLG'D BY VICTAULIC GROOVED END NIPPLE	8
17	10" DIA. D.I.P. FLG'D X FLG'D.	4



Underground Service Alert
 Call: TOLL FREE
1-800-422-4133
 TWO WORKING DAYS BEFORE YOU DIG

PRIVATE ENGINEERING NOTE
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PREPARED UNDER THE DIRECTION OF:
J. Davidson
 REGISTERED CIVIL ENGINEER No. 43543
 EXPIRATION DATE: 6-30-92 DATE: 8-29-90
 APPROVED BY:

J.F. Davidson Associates, Inc.
 ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
 3880 Lemon Street, Suite 300 P.O. Box 493 Riverside, CA 92502 (714) 686-8544 FAX 714-686-5954
 11200 S. ML Vernon Ave., Suite "D" Colton, CA 92524 (714) 825-1082
 73-680 El Paseo, Suite 105 Palm Desert, CA 92260 (619) 346-5691 FAX 619-340-0529

CITY OF RIVERSIDE, CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 APPROVED BY: *[Signature]* DATE: 10/15/90
 PRINCIPAL ENGINEER
 DATE: 10/15/90
 DESIGNED BY: RC DRAWN BY: RH CHECKED BY: RC

CITY OF RIVERSIDE, CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 APPROVED BY: *[Signature]* DATE: 10/15/90
 DIRECTOR OF PUBLIC WORKS
 CHIEF P.W. ENGR. DATE: 10/15/90

WOOD ROAD SEWAGE LIFT STATION EXPANSION
 SECTION A VIEW
 PROJECT NO. 27-526-381
S-1430D
 SHEET 3 OF 9
 HORIZ. SCALE: 1" = 1'-0" VERT. SCALE: 1" = 1'-0" FILE NO. 9011994

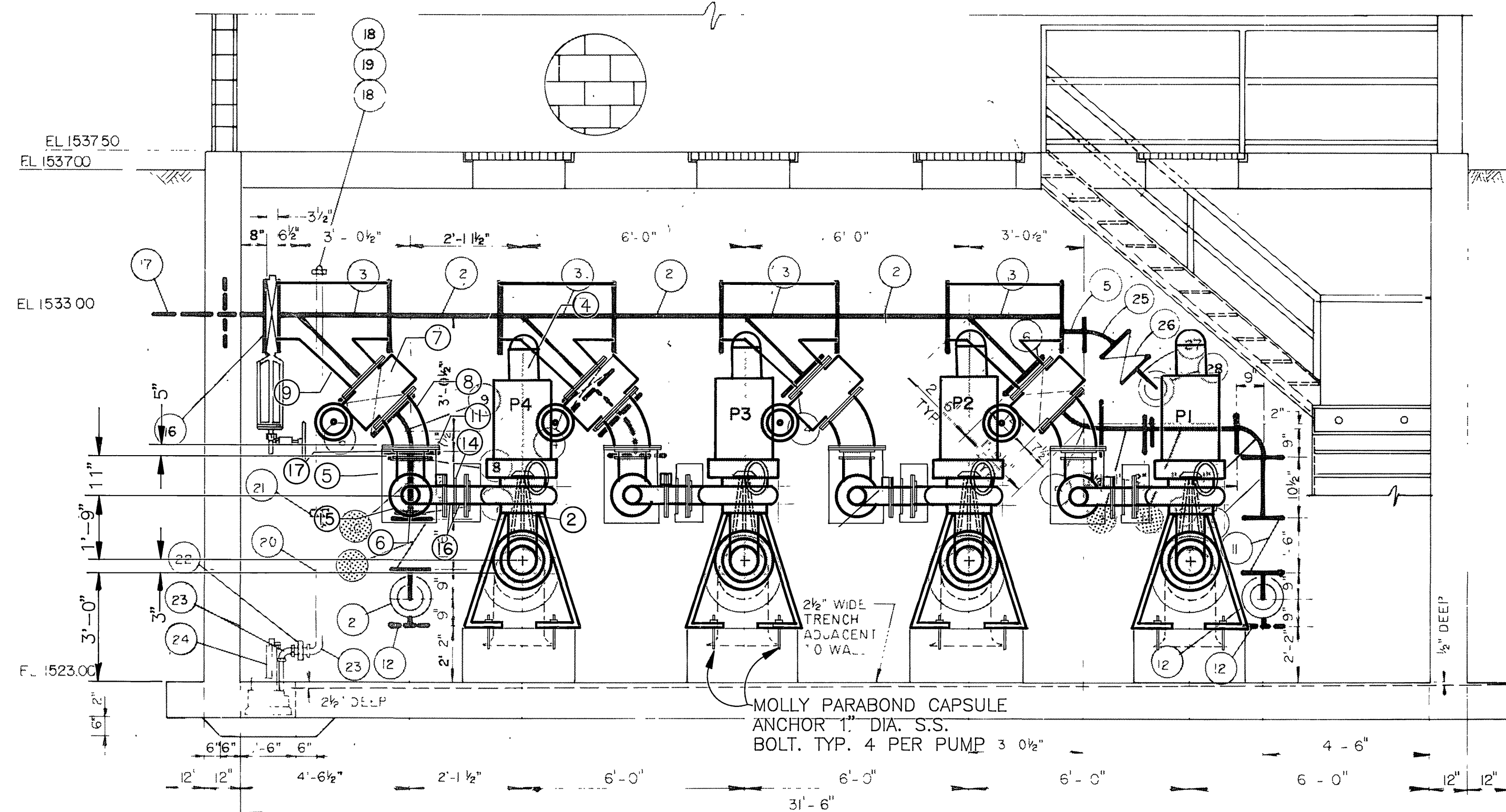
INDEXED 2-6-91 LHM

EQUIPMENT LIST FOR EXPANSION

SEE SHEET No. 3

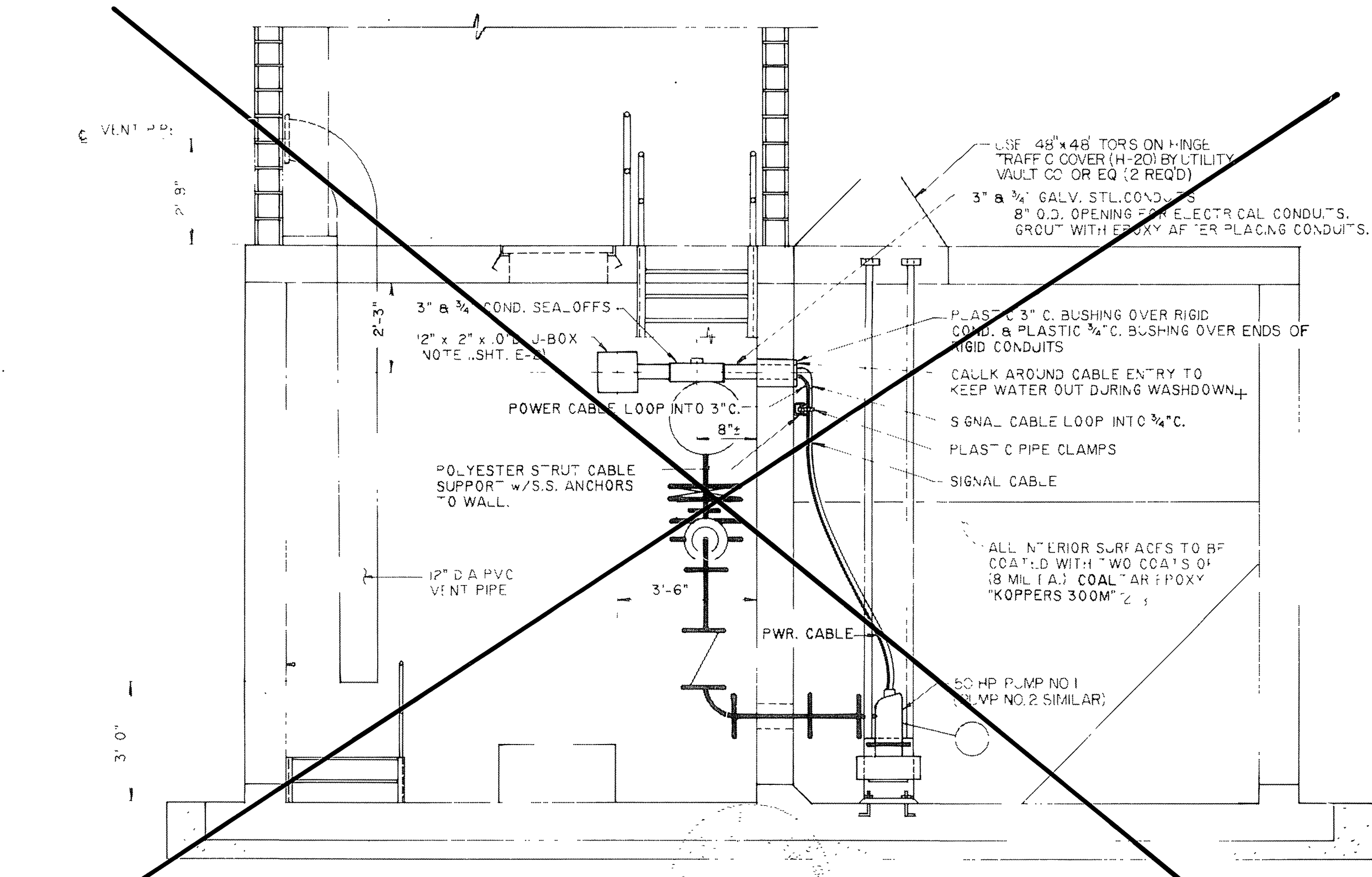
EQUIPMENT LIST

ITEM No.	DESCRIPTION	QTY.
1	SUBMERSIBLE PUMP AND MOTOR WITH S.S. SLIDE RAIL SYSTEM. 1/2" NPT, 4x15" 800 GPM @ TDH = 105', 50 HP, 440 VOLT, 3Ø MOTOR	2
2	16" DIA. D.I.P. FLANGED x FLANGED NIPPLE x 2'-1 1/2" LONG.	3
3	16" x 16" x 12" D.I. FLANGED WYE.	4
4	12" DIA. 125# D.I. BLIND FLANGE.	2
5	16" x 6" D.I. FLG'D NIPPLE REDUCER	1
6	12" DIA. FLG'D PLUG VALVE ROTARY GEAR ACTUATOR "DEZURIK" FIG 118-F-RS17, AG66HZ KEYSITE 740 (3 COATS 10 TO 12 MIN. HOLIDAY TEST)	2
7	8" DIA. VICTAULIC FLANGE (STYLE 341)	2
8	12" DIA. VICTAULIC FLANGE (STYLE 341)	1
9	12" DIA. D.I. 45° ELL.	2
10	12"x8" DIA. D.I. VIC x VIC CONCENTRIC REDUCER (VIC. NO. 50-C)	1
11	8" DIA. OIL CUSHION SWING CHECK VALVES "APCO SERIES 6000"	2
12	8" DIA. D.I. 90° ELL.	1
13	12"x8" DIA. D.I. ECCENTRIC REDUCER.	1
14	8" DIA. D.I.P. FLANGED x VICTAULIC GROOVE x 1'-1 1/2" LONG.	1
15	8" DIA. D.I.P. FLANGED x FLANGED NIPPLE x 10 1/2" LONG.	1
16	16" DIA. KNIFE GATE VALVE RESILIENT SET WITH BEVEL GEAR OPERATOR "DEZURIK FIG 801 RS16"	1
17	16" DIA. D.I. WALL FLANGED x PLAIN END x 3'-0" LONG.	1
18	2" DIA. BRASS 90° ELL.	2
19	2" DIA. BRASS THREADED NIPPLE SCH. 80 x 2'-0" LONG.	1
20	2" DIA. PVC PIPE SCH. 80 x LENGTH AS REQUIRED.	1
21	2"x1/4" S.S. STRAP WALL FASTENER AND 1/4" DIA. S.S. WEDGE ANCHORS.	2
22	2" DIA. PVC UNION SCH. 80.	1
23	2" DIA. PVC 90° ELL.	2
24	SUMP PUMP 40 GPM @ TDH=20' "MYERS WIRE", V&HP, 110 VOLT, 1Ø MOTOR WITH FLCA CONTROL.	1
25	6" DIA. D.I. 90° ELL.	1
26	6" DIA. FLG'D PLUG VALVE ROTARY GEAR ACTUATOR "DEZURIK" FIG 118-F-RS16, AG66HZ KEYSITE 740 (3 COATS 10 TO 12 MIN. HOLIDAY TEST)	1
27	6" DIA. D.I. 90° ELL.	1
28	6" DIA. D.I. WALL FLANGED x PLAIN END 24" LONG.	1

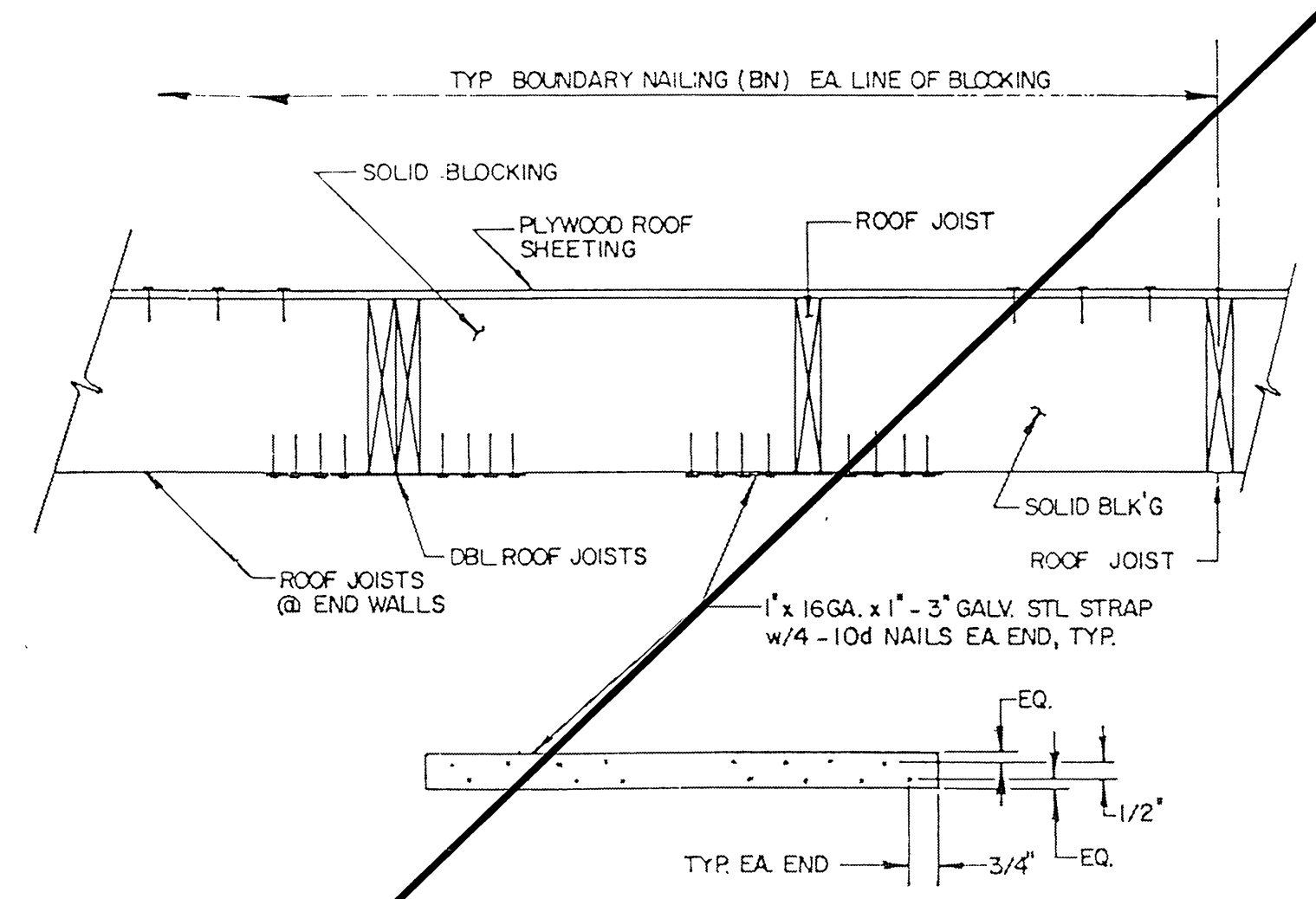


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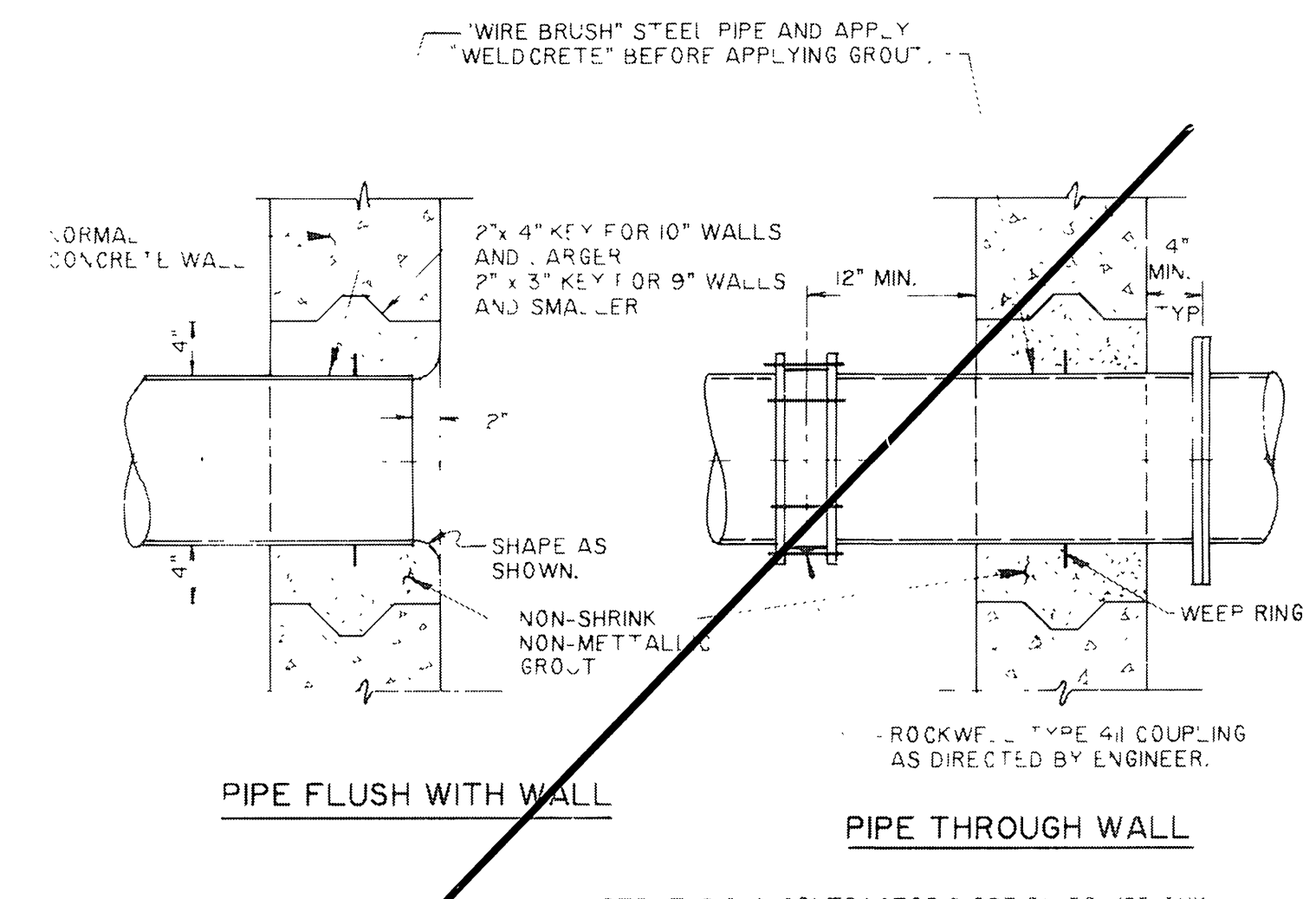
EXIST. EQUIPMENT TO BE REMOVED AND REMAIN AS CITY PROPERTY.



C SECTION
N.T.S.



15 SEISMIC TIES @ END WALLS DETAIL
N.T.S.



16 TYPICAL PIPE INSERT AT WALL
N.T.S.

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TWO WORKING DAYS BEFORE YOU DIG

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REGISTERED PROFESSIONAL ENGINEER
JOHN B. SELLA
No. C043543
Exp. 12/31/94
CIVIL
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
John Sella
REGISTERED CIVIL ENGINEER NO. 43543
EXPIRATION DATE: 6-30-92 DATE: 8-21-90
APPROVED BY:

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300 P.O. Box 493 Riverside, CA 92502 (714) 686-0944 FAX 714-686-5954
11200 S. Mt. Vernon Ave., Suite "D" Cotton, CA 92324 (714) 825-1082
73-580 El Paseo, Suite 106 Palm Desert, CA 92260 (619) 346-5691 FAX 619-340-0529

SCALE: AS SHOWN
DATE: APRIL 1990
BENCH MARK: DATE: 1971 RIVERSIDE COUNTY ELEV: 1700.670
BRASS DISK FLUSH & MARKED V.B.10-64. 0.6 MI. E. ON VAN BUREN BLVD. FROM INT. OF VAN BUREN & WOOD RD. 206' N OF VAN BUREN AT THE GRANT BOULDER ON TOP OF 3' X 18' X 16' BOULDER.

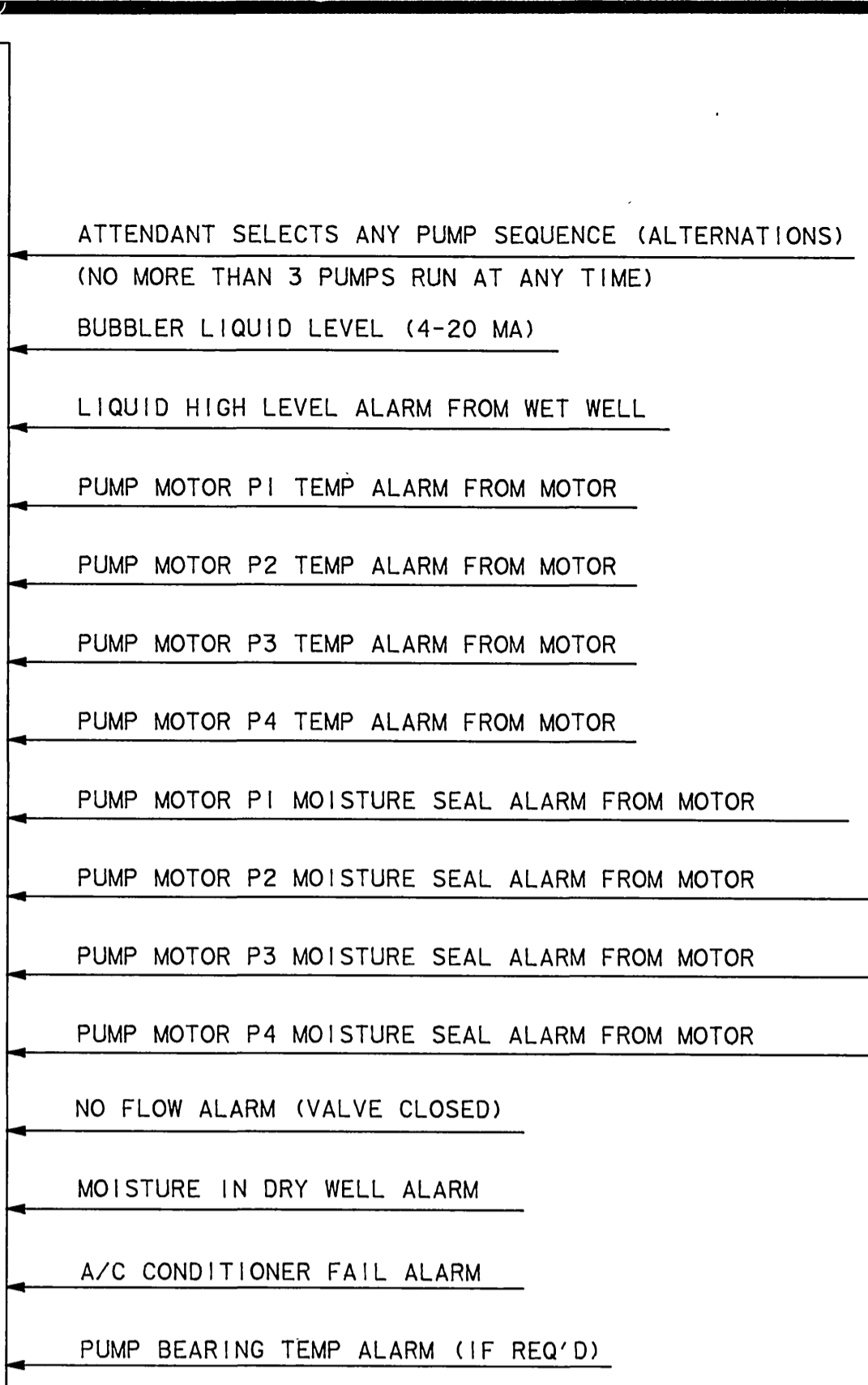
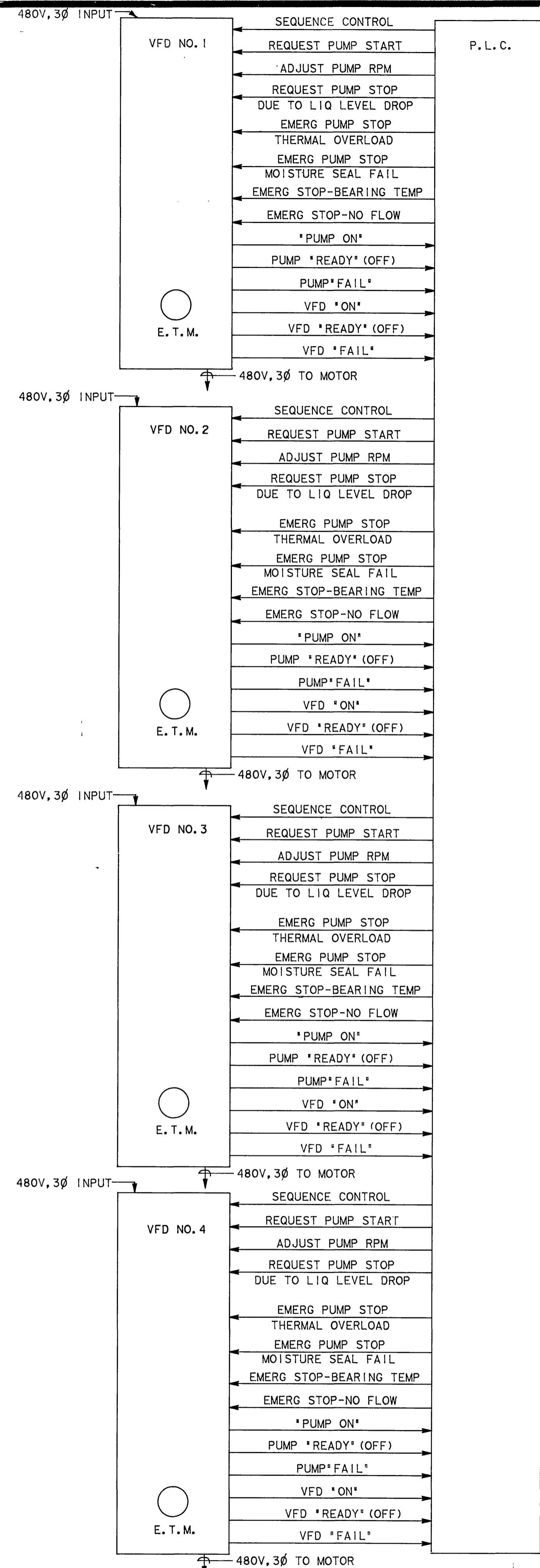
MARK REVISIONS APPR DATE
DESIGNED BY RC DRAWN BY RH CHECKED BY RC SH

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
APPROVED BY: [Signature] DATE: 10/15/90
PRINCIPAL ENGINEER
TRAFFIC DIVISION
CHIEF P.W. ENGR

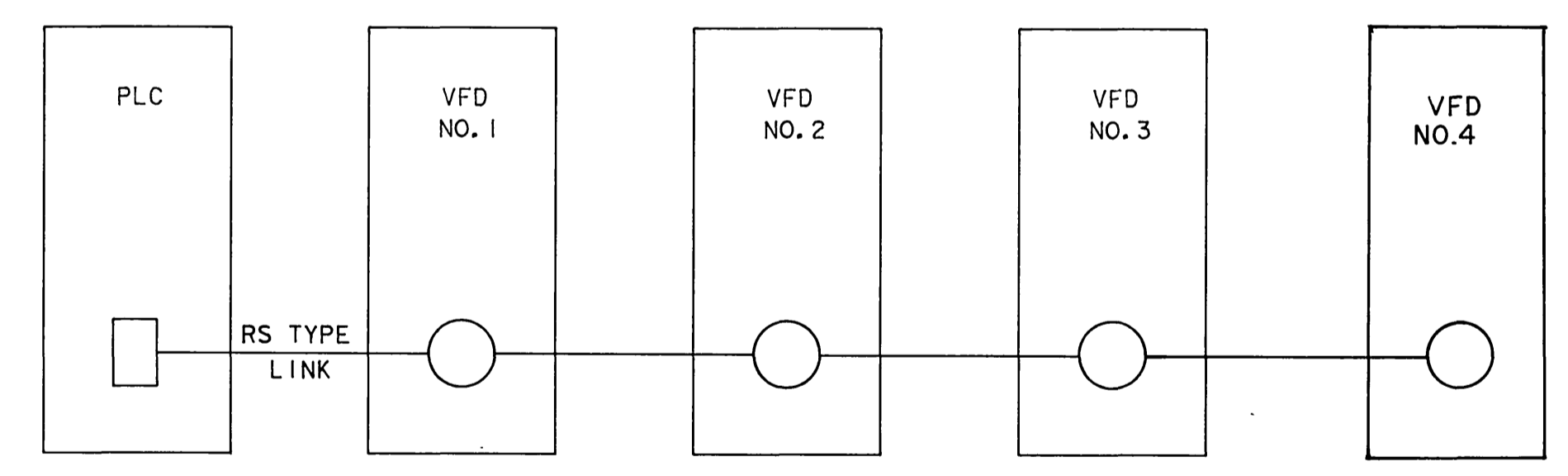
WOOD ROAD SEWAGE LIFT STATION EXPANSION
SECTION B VIEW
HORIZ. SCALE: 1" VERT. SCALE: 1"

PROJECT NO. 27-526-381
S-1430D
SHEET 4 OF 9
FILE NO: 9011994

INDEXED 2-6-91

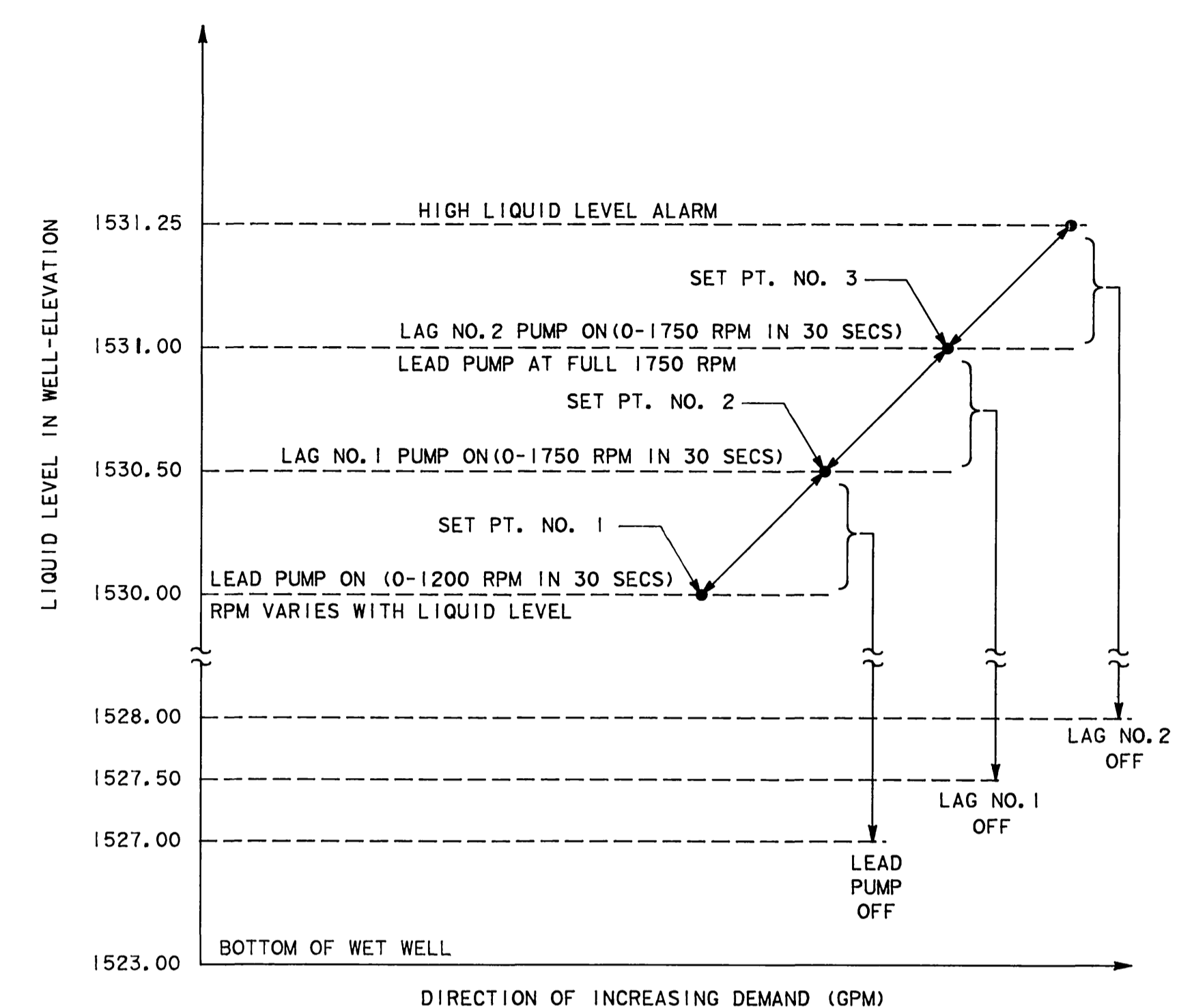


TYPICAL BLOCK DIAGRAM OF INFORMATION FLOW BETWEEN PLC & VFDs



TYPICAL CONNECTION OF THE PLC/MULTIDRIVE SYSTEM

REGISTERED PROFESSIONAL ENGINEER
 INVING HILLER
 No. 8222
 Exp. 7-30-94
 ELECTRICAL
 STATE OF CALIFORNIA
 Spring Hiller
 10/10/90



TYPICAL LIQUID LEVEL CONTROL WITH THE TRIPLE SIMPLEX VFD SYSTEM

SEQUENCING NOTES:

- THE PLC SHALL BE PROGRAMMED SO THAT A MAXIMUM OF THREE (3) PUMPS ARE ALLOWED TO OPERATE SIMULTANEOUSLY
- THE SEQUENCING ORDER SHOWN IS TYPICAL. THE PLC SHALL BE CAPABLE OF SEQUENCING THE PUMPS IN ANY ORDER.
- IF ONE OR MORE VFD'S OR PUMPS ARE TAKEN OUT OF SERVICE FOR MAINTENANCE OR REPAIR, ETC, THE PLC SHALL BE ABLE TO LOCK OUT THE OUT OF SERVICE EQUIPMENT AND CONTINUE THE SEQUENCING OF THE REMAINING AVAILABLE EQUIPMENT IN ANY ORDER.

	LEAD PUMP	LAG PUMP NO. 1	LAG PUMP NO. 2	STANDBY PUMP
1st PERIOD (E. G. DAY WEEK OR MONTH)	PUMP NO. 1	PUMP NO. 2	PUMP NO. 3	PUMP NO. 4
2nd PERIOD	PUMP NO. 2	PUMP NO. 3	PUMP NO. 4	PUMP NO. 1
3rd PERIOD	PUMP NO. 3	PUMP NO. 4	PUMP NO. 1	PUMP NO. 2
4th PERIOD	PUMP NO. 4	PUMP NO. 1	PUMP NO. 2	PUMP NO. 3

TABLE A: TYPICAL PLC SEQUENCING OF PUMPS BY STATION ATTENDANT (SEE SEQUENCING NOTES)

Underground Service Alert
 Call: TOLL FREE
1-800-422-4133
 TWO WORKING DAYS BEFORE YOU DIG

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REGISTERED PROFESSIONAL ENGINEER
 JOHN B. SEIDER
 No. 0043545
 Exp. 8-29-90
 CIVIL
 STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF
 Jon Selva
 REGISTERED CIVIL ENGINEER NO. 43543
 EXPIRATION DATE 6-30-92 DATE 8-29-90
 APPROVED BY

J.F. Davidson Associates, Inc.
 3880 Lemon Street Suite 300 P.O. Box 493 Riverside CA 92502
 1744-685-0844 FAX 714-686-5954
 11320 S. Mt. Vernon Ave. Suite D Lubon CA 92524
 1741-825-1082
 3480 El Paseo Suite 106 Palm Desert CA 92260
 310-345-5691 FAX 619-340-0929

DATE: 1971 RIVERSIDE COUNTY ELEV: 1700.670
 BRASS DISK FLUSH & MARKED V.B.I.O.-64. 0.6 MI E. ON VAN BUREN BLVD. FROM INT. OF VAN BUREN & WOOD RD. 200' N. OF VAN BUREN AT THE GRANT BOULDER ON TOP OF 3' X 16' X 16' BOULDER.

DESIGNED BY RC DRAWN BY DM CHECKED BY RC

CITY OF RIVERSIDE, CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS

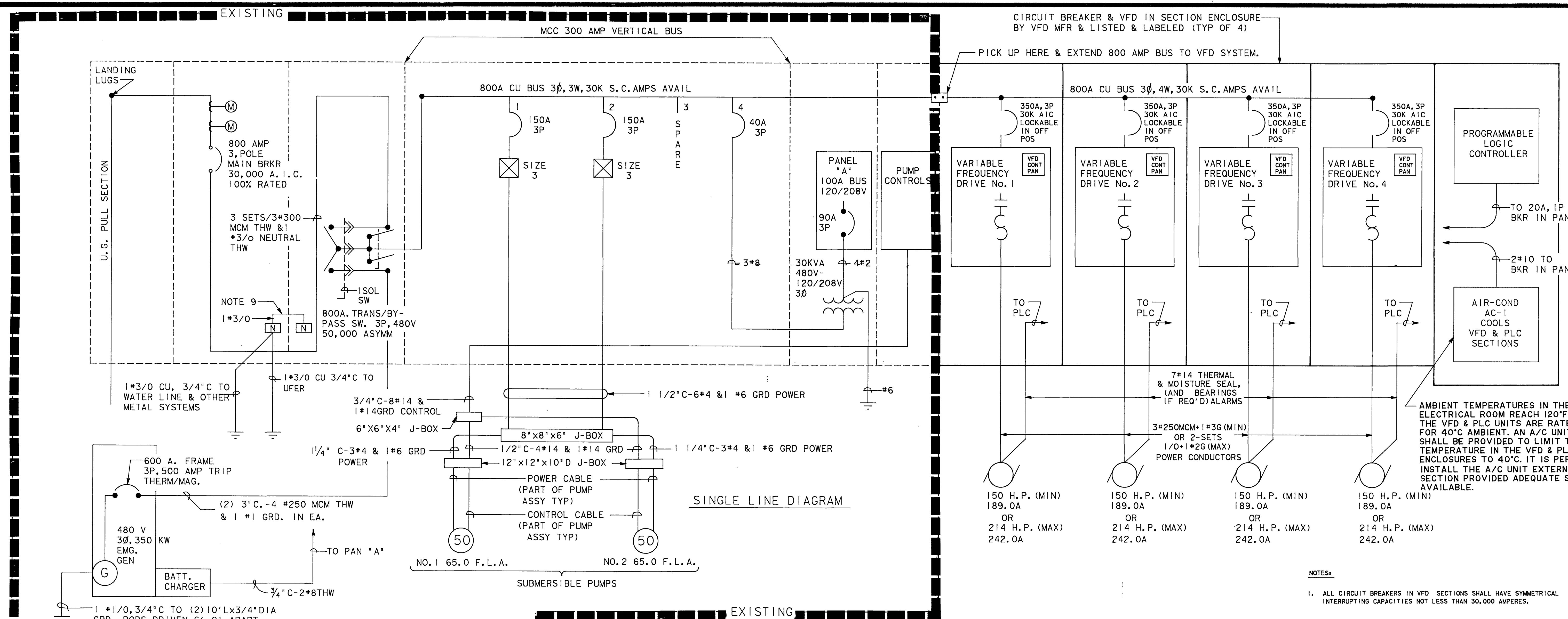
APPROVED BY: [Signature] DATE: 10/13/90
 PRINCIPAL ENGINEER
 DIRECTOR OF PUBLIC WORKS

WOOD ROAD SEWAGE LIFT STATION EXPANSION
 ELECTRICAL CONTROL PLAN

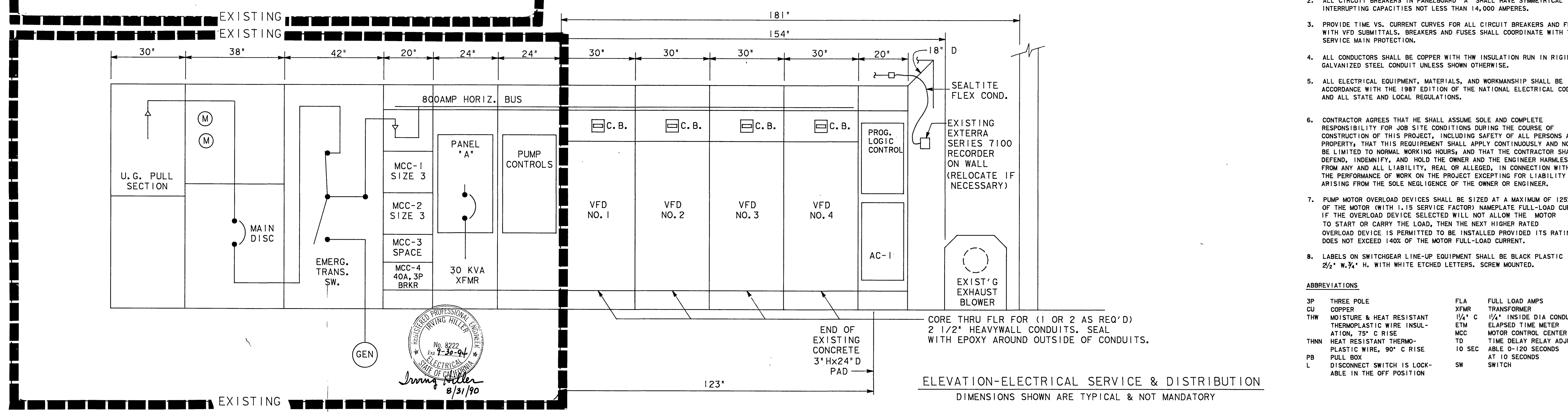
HORIZ. SCALE: 1" VERT. SCALE: 1"

PROJECT NO. 27-526-381
S-1430D
 SHEET 5 OF 9
 FILE NO. 9011994

INDEXED 2-6-91 LFT



SINGLE LINE DIAGRAM



ELEVATION-ELECTRICAL SERVICE & DISTRIBUTION
DIMENSIONS SHOWN ARE TYPICAL & NOT MANDATORY

- NOTES:**
- ALL CIRCUIT BREAKERS IN VFD SECTIONS SHALL HAVE SYMMETRICAL INTERRUPTING CAPACITIES NOT LESS THAN 30,000 AMPERES.
 - ALL CIRCUIT BREAKERS IN PANELBOARD 'A' SHALL HAVE SYMMETRICAL INTERRUPTING CAPACITIES NOT LESS THAN 14,000 AMPERES.
 - PROVIDE TIME VS. CURRENT CURVES FOR ALL CIRCUIT BREAKERS AND FUSES WITH VFD SUBMITTALS. BREAKERS AND FUSES SHALL COORDINATE WITH THE SERVICE MAIN PROTECTION.
 - ALL CONDUCTORS SHALL BE COPPER WITH THW INSULATION RUN IN RIGID GALVANIZED STEEL CONDUIT UNLESS SHOWN OTHERWISE.
 - ALL ELECTRICAL EQUIPMENT, MATERIALS, AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE 1987 EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL STATE AND LOCAL REGULATIONS.
 - CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THE PROJECT EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
 - PUMP MOTOR OVERLOAD DEVICES SHALL BE SIZED AT A MAXIMUM OF 125% OF THE MOTOR (WITH 1.15 SERVICE FACTOR) NAMEPLATE FULL-LOAD CURRENT. IF THE OVERLOAD DEVICE SELECTED WILL NOT ALLOW THE MOTOR TO START OR CARRY THE LOAD, THEN THE NEXT HIGHER RATED OVERLOAD DEVICE IS PERMITTED TO BE INSTALLED PROVIDED ITS RATING DOES NOT EXCEED 140% OF THE MOTOR FULL-LOAD CURRENT.
 - LABELS ON SWITCHGEAR LINE-UP EQUIPMENT SHALL BE BLACK PLASTIC 2 1/2" W. 3/4" H. WITH WHITE ETCHED LETTERS. SCREW MOUNTED.

ABBREVIATIONS

3P	THREE POLE	FLA	FULL LOAD AMPS
CU	COPPER	XFMR	TRANSFORMER
THW	MOISTURE & HEAT RESISTANT THERMOPLASTIC WIRE INSULATION, 75° C RISE	1/4" C	1/4" INSIDE DIA CONDUIT
THHN	HEAT RESISTANT THERMOPLASTIC WIRE, 90° C RISE	ETM	ELAPSED TIME METER
PB	PULL BOX	MCC	MOTOR CONTROL CENTER
L	DISCONNECT SWITCH IS LOCKABLE IN THE OFF POSITION	TO	TIME DELAY RELAY ADJUST-ABLE 0-120 SECONDS AT 10 SECONDS
		SW	SWITCH

Underground Service Alert

Call: TOLL FREE
1-800-422-4133

TWO WORKING DAYS BEFORE YOU DIG

PRIVATE ENGINEERING NOTE

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

PREPARED UNDER THE DIRECTION OF
Jon Selva
REGISTERED PROFESSIONAL ENGINEER No. 43543
EXPIRATION DATE 6-30-92 DATE 8-21-90

APPROVED BY
Irving Miller
No. 8222
Exp. 7-30-94
REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL
STATE OF CALIFORNIA
8/31/90

J.F. Davidson Associates, Inc.

3880 Lyman Street Suite 101
P.O. Box 492
Riverside, CA 92502
714 946-0844
FAX 714 946-0954

11200 S. Mt. Vernon Ave. Suite 11
Lakewood, CA 92509
714 942-1082
714 946-5665
FAX 714 946-5624

SCALE AS SHOWN
DATE APRIL 1990

BENCH MARK DATE: 1971 RIVERSIDE COUNTY ELEV. 1700.670
BRASS DISK FLUSH & MARKED V.B.10-64. 0.6 MI. E. ON VAN BUREN BLVD. FROM INT. OF VAN BUREN & WOOD RD. 206' N OF VAN BUREN AT THE GRANT BOULDER ON TOP OF 3' X 16' X 16' BOULDER.

DESIGNED BY RC
DRAWN BY RH
CHECKED BY RC

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY
[Signature]
DIRECTOR OF PUBLIC WORKS

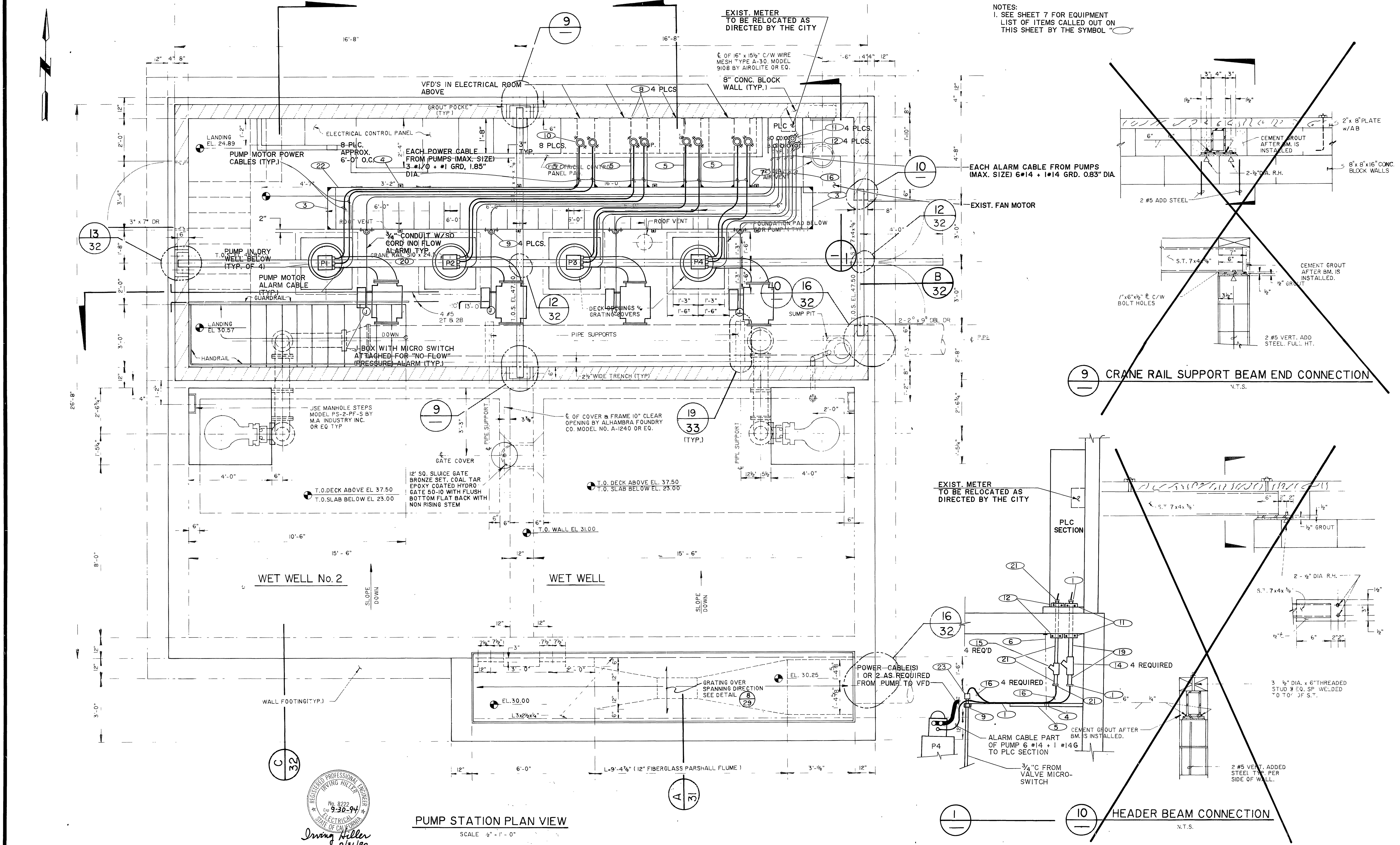
DATE 10/15/90

WOOD ROAD SEWAGE LIFT STATION EXPANSION

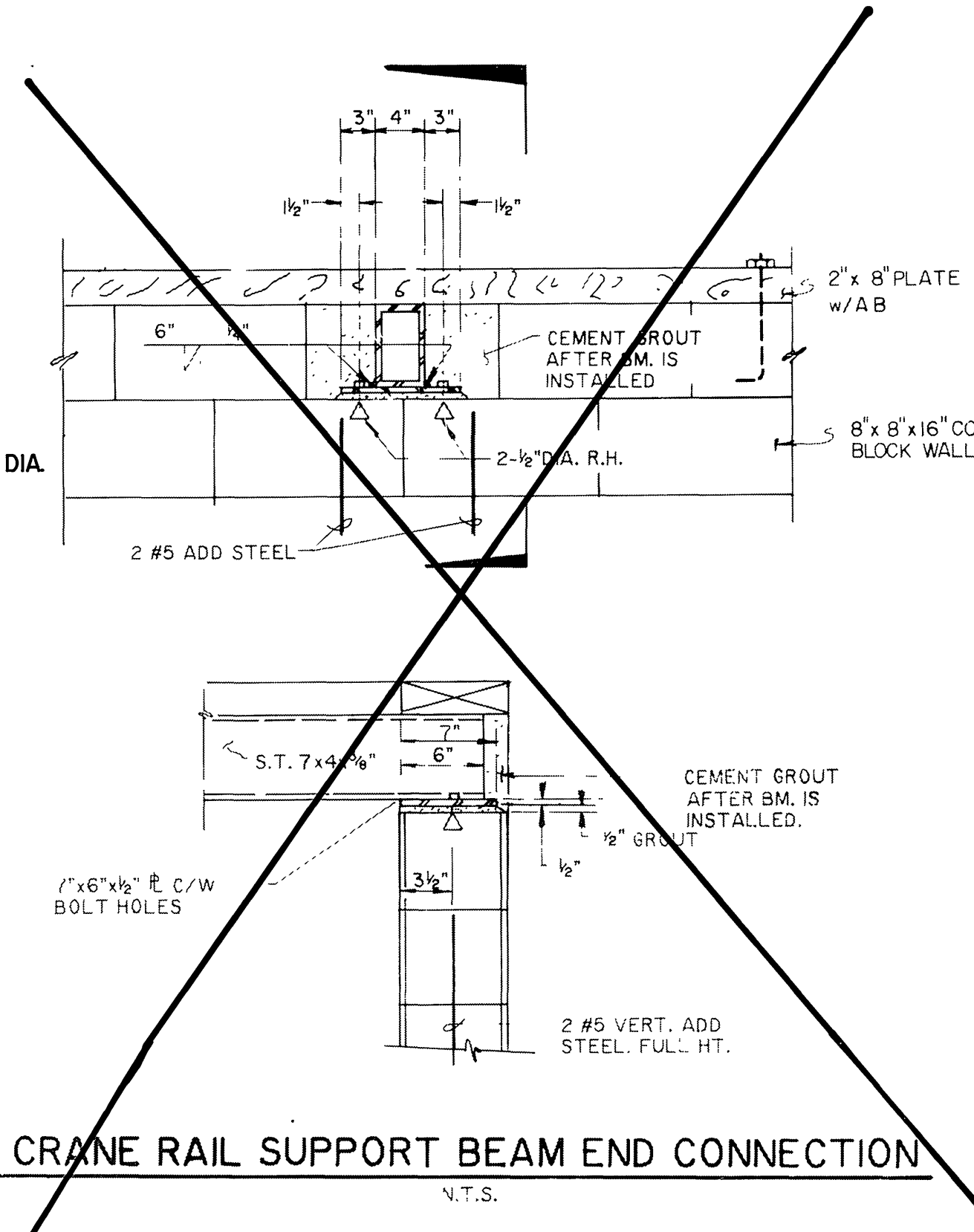
ELECTRICAL - SINGLE LINE DIAG. AND ELEVATION VIEW

HORIZ. SCALE 1"
VERT. SCALE 1"

PROJECT NO 27-526-381
S-1430D
SHEET 6 OF 9
FILE NO.



NOTES:
 1. SEE SHEET 7 FOR EQUIPMENT LIST OF ITEMS CALLED OUT ON THIS SHEET BY THE SYMBOL "O"



REGISTERED PROFESSIONAL ENGINEER
 IRVING HILLER
 No. 8222
 3-30-94
 ELECTRICAL
 STATE OF CALIFORNIA
 Irving Hiller
 8/31/90

Underground Service Alert
 Call: TOLL FREE
 1-800
 422-4133
 TWO WORKING DAYS BEFORE YOU DIG

PRIVATE ENGINEERING NOTE
 CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

REGISTERED PROFESSIONAL ENGINEER
 JOY B. SEIBER
 No. CO42343
 Exp. 12/31/95
 CIVIL
 STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
 REGISTERED CIVIL ENGINEER NO. 43543
 EXPIRATION DATE: 6-30-92 DATE: 8-29-90
 APPROVED BY:

J.F. Davidson Associates, Inc.
 ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
 3880 Lemon Street, Suite 300 11200 S. Mt. Vernon Ave., Suite "D" 73-080 El Paseo, Suite 106
 P.O. Box 493 Colton, CA 92324 Palm Desert, CA 92260
 Riverside, CA 92502 (714) 825-1082 (619) 346-5691
 (714) 886-0844 FAX 619-340-0529
 FAX 714-886-5954

SCALE: AS SHOWN BENCH MARK: DATE: 1971 RIVERSIDE COUNTY ELEV. 1700.670
 BRASS DISK FLUSH & MARKED V&H 10-64, 0.6 MI E. ON VAN BUREN BLVD. FROM INT. OF VAN BUREN & WOOD RD. 206' N OF VAN BUREN AT THE GRANT BOULDER ON TOP OF 3'X16'X16' BOULDER.

MARK: RC REVISIONS: APPR. DATE:
 DESIGNED BY: RC DRAWN BY: RH CHECKED BY: RC SK

CITY OF RIVERSIDE, CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS

APPROVED BY:	BY:	DATE:	APPROVED BY:	DATE:
PRINCIPAL ENGINEER	[Signature]	10/15/90	DIRECTOR OF PUBLIC WORKS	[Signature]
TRAFFIC DIVISION				
CHIEF P.W. ENGR.	[Signature]			

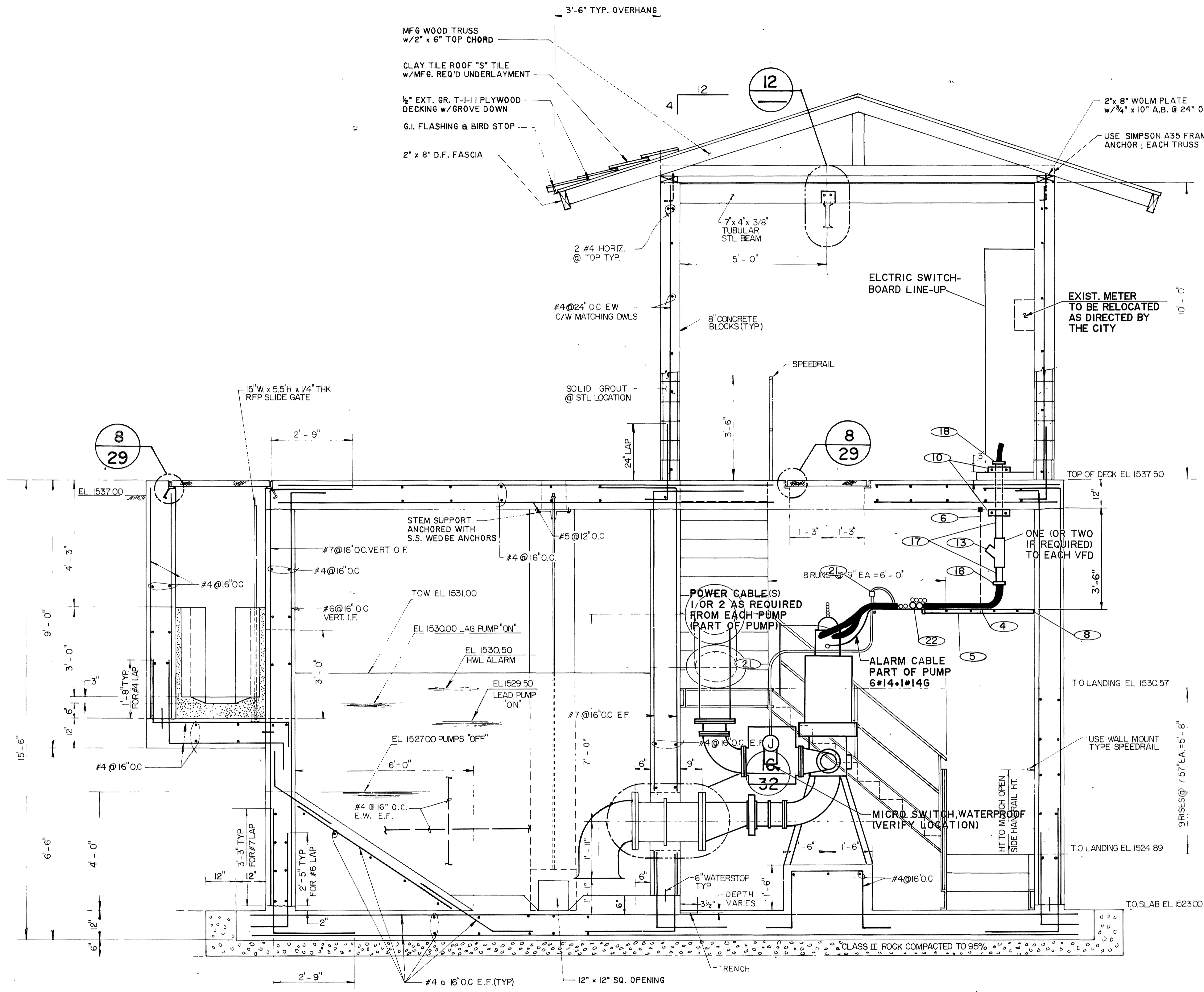
WOOD ROAD SEWAGE LIFT STATION EXPANSION
 ELECTRICAL PLAN VIEW

HORIZ. SCALE: 1" = 10'
 VERT. SCALE: 1" = 10'

PROJECT NO. 27-526-381
S-1430D
 SHEET 7 OF 9
 FILE NO.: 9011994

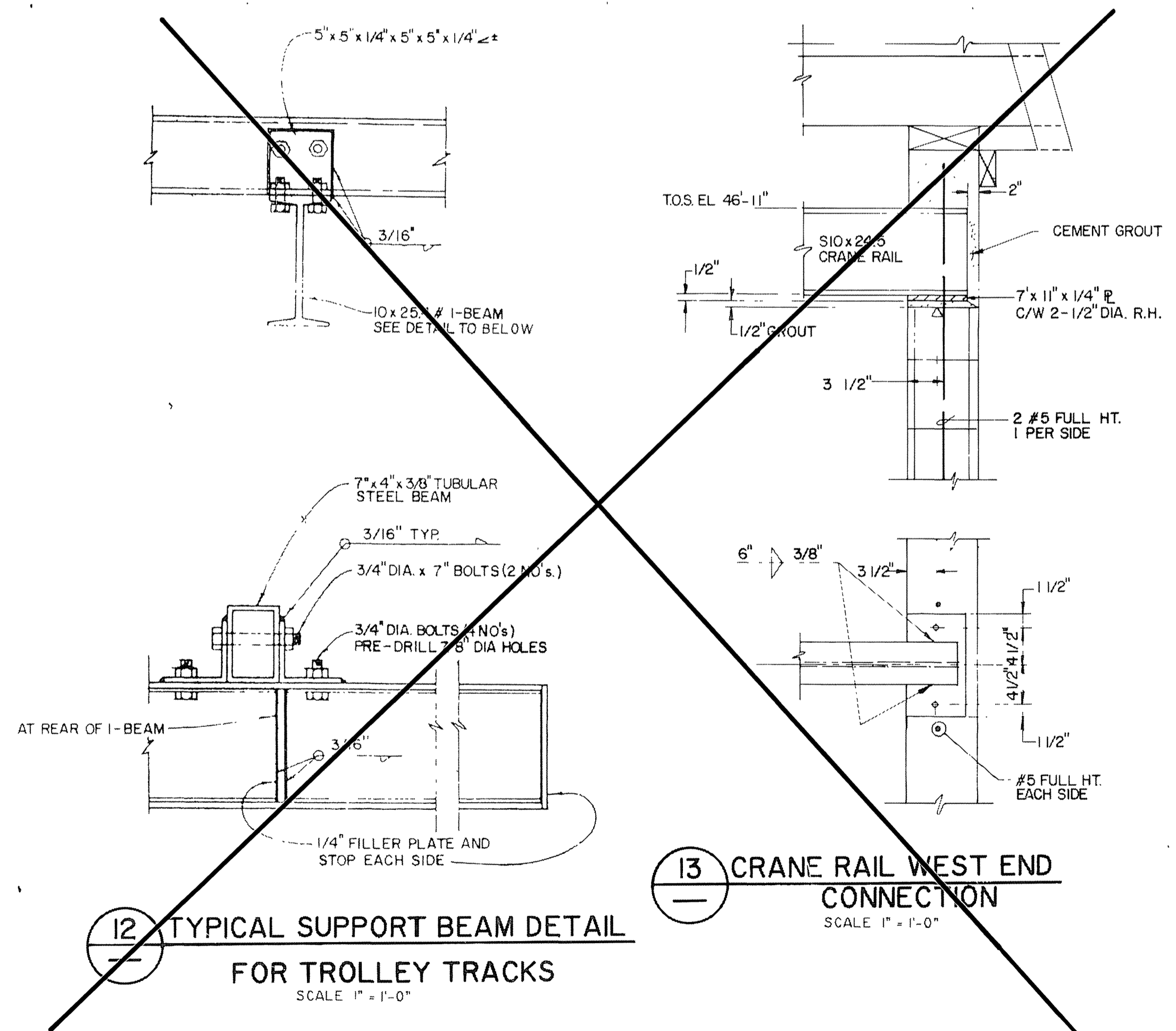
INDEXED 2-6-91 Lft

NOTE:
 PROVIDE A PAINTED WOODEN SIGN ATTACHED
 TO WEST SIDE OF BUILDING TO READ "CITY OF
 RIVERSIDE "TRAUTWEIN PUMP STATION".



A SECTION
 SCALE 1/2" = 1'-0"

REGISTERED PROFESSIONAL ENGINEER
 Irving Heller
 No. 8222
 Exp. 7-30-94
 CIVIL
 STATE OF CALIFORNIA



12 TYPICAL SUPPORT BEAM DETAIL FOR TROLLEY TRACKS
 SCALE 1" = 1'-0"

13 CRANE RAIL WEST END CONNECTION
 SCALE 1" = 1'-0"

Underground Service Alert
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 TWO WORKING DAYS BEFORE YOU DIG

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REGISTERED PROFESSIONAL ENGINEER
 Irving Heller
 No. CDAS 343
 Exp. 7-30-94
 CIVIL
 STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
 REGISTERED CIVIL ENGINEER NO. 43543
 EXPIRATION DATE: 6-30-92 DATE: 8-29-90
 APPROVED BY:

J.F. Davidson Associates, Inc.
 ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
 3880 Lemon Street, Suite 300 P.O. Box 493 Riverside, CA 92502 (714) 686-0844 FAX 714-686-5954
 11200 S Mt. Vernon Ave., Suite "D" Colton, CA 92324 (919) 346-6591 FAX 919-340-0529
 DATE: 1971 RIVERSIDE COUNTY ELEV. 1700.670
 BRASS DISK FLUSH & MARKED V.S. 10-64. 0.6 MI. E. ON VAN BUREN BLVD. FROM INT. OF VAN BUREN & WOOD RD. 205' N. OF VAN BUREN AT THE GRANT BOULDER ON TOP OF 3' X 16' X 16' BOULDER.

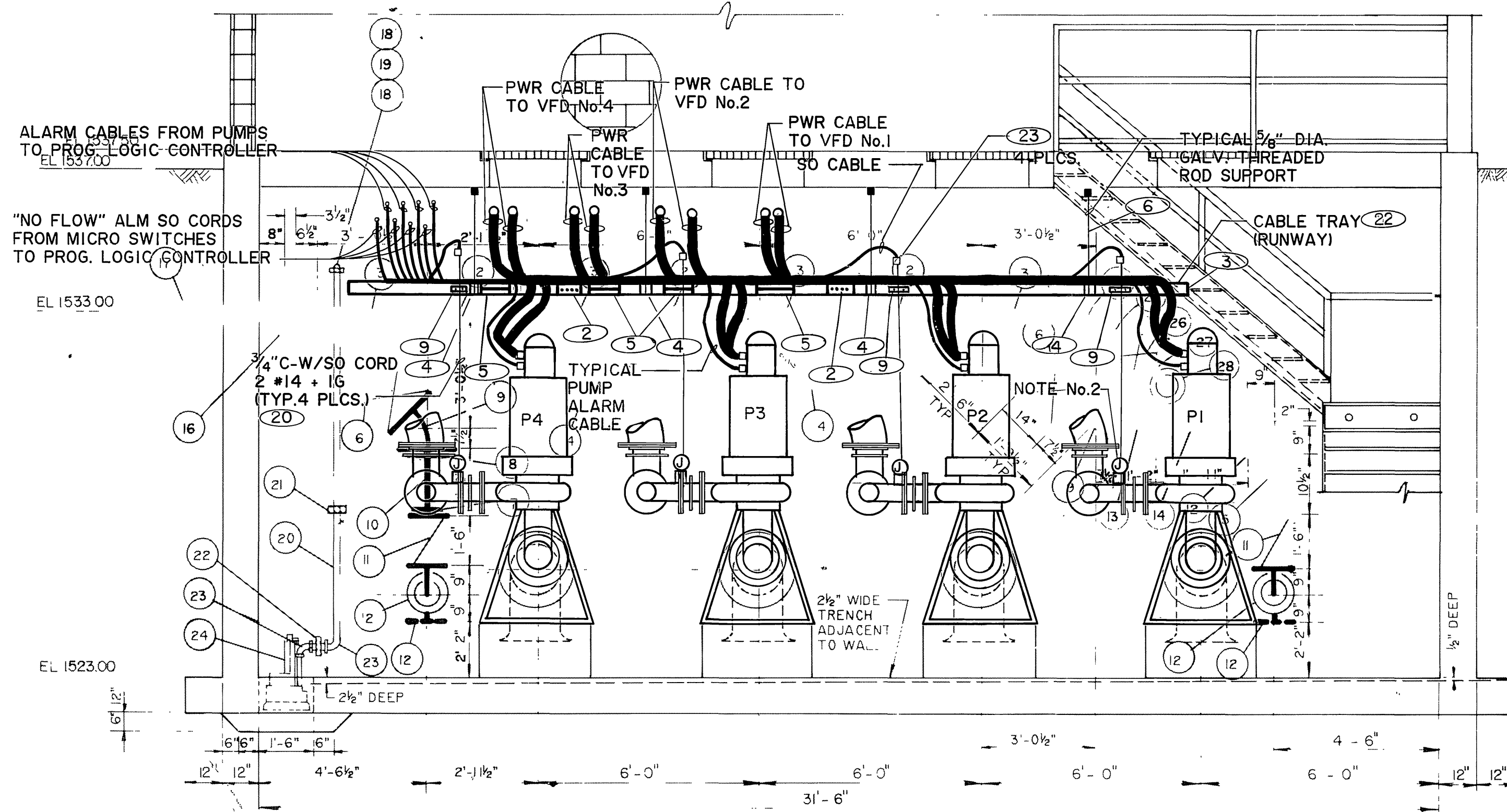
MARK	REVISIONS	APPR.	DATE
RC			

DESIGNED BY: RC DRAWN BY: RH CHECKED BY: RC

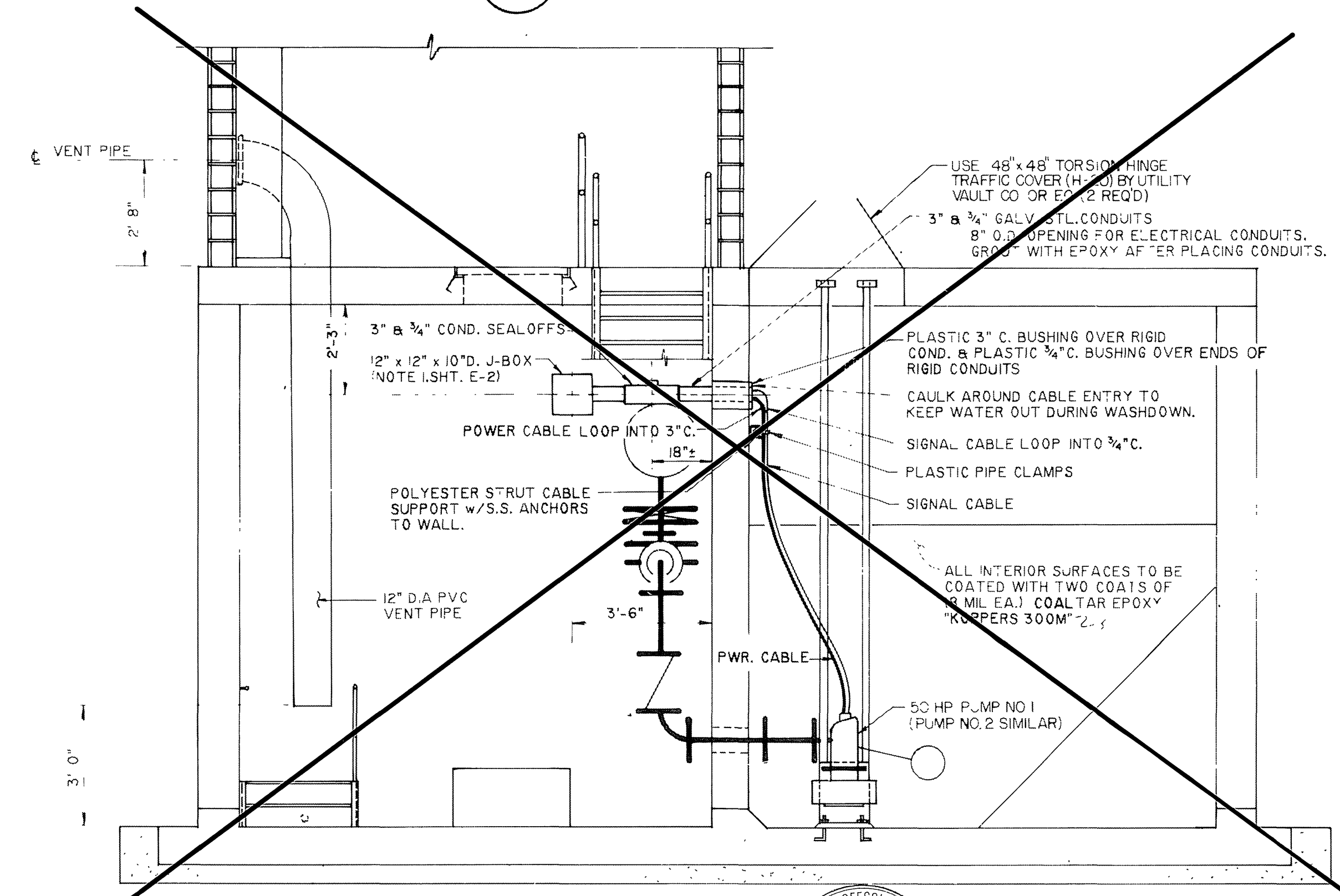
CITY OF RIVERSIDE, CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 APPROVED BY: [Signature] DATE: 10/31/90
 PRINCIPAL ENGINEER
 TRAFFIC DIVISION
 CHIEF P.W. ENGR.

WOOD ROAD SEWAGE LIFT STATION EXPANSION
 ELECTRICAL-SECTION "A" VIEW
 HORIZ. SCALE: 1" = 1'-0" VERT. SCALE: 1" = 1'-0"

PROJECT NO. 27-526-381
S-1430D
 SHEET 8 OF 9
 FILE NO. 9011994
 INDEXED 2-6-91 lft



B SECTION
N.T.S.



C SECTION
N.T.S.

REGISTERED PROFESSIONAL ENGINEER
 TRIVING HILLER
 No. 8222
 9-20-74
 ELECTRICAL
 STATE OF CALIFORNIA
 8/31/90

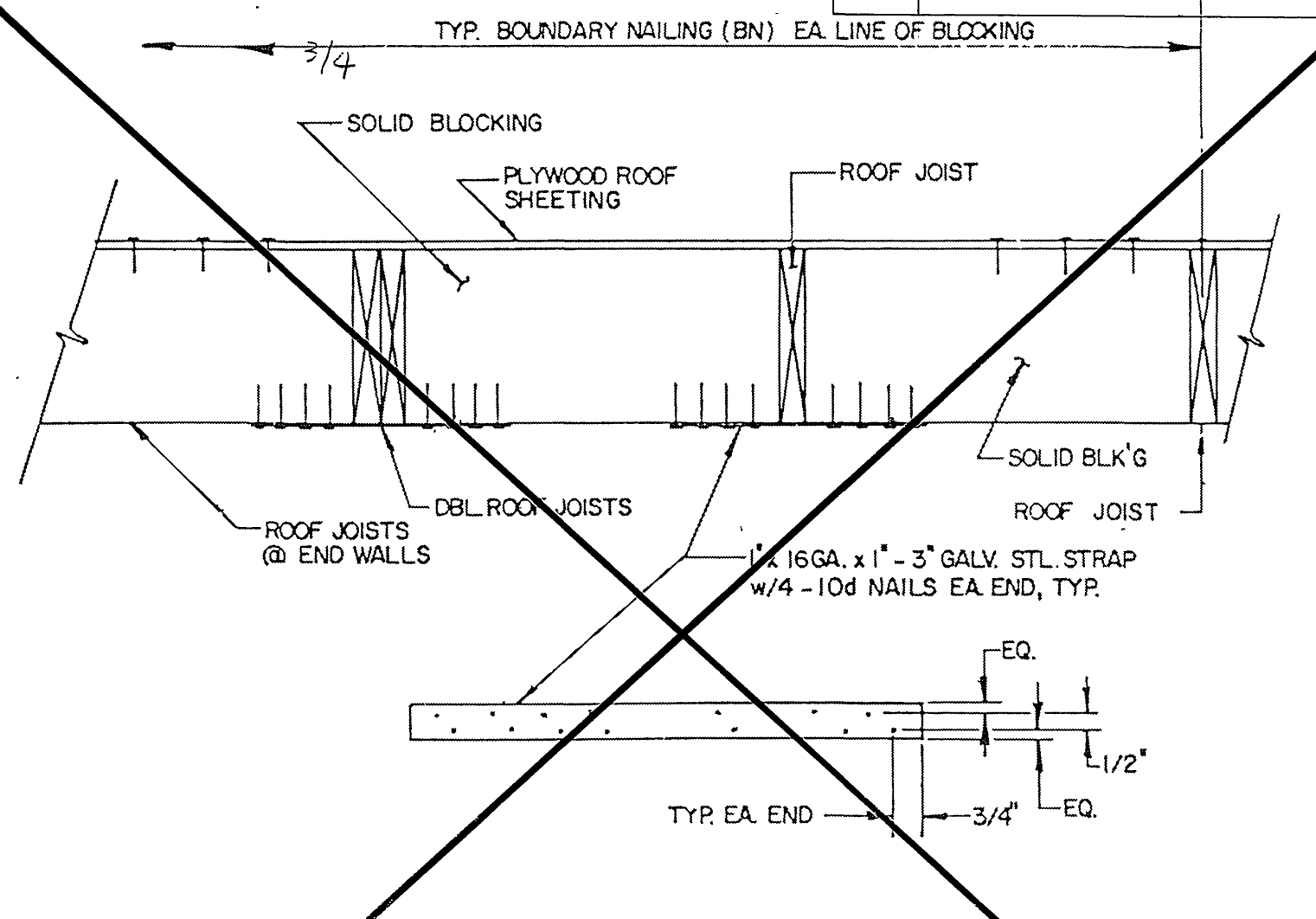
EQUIPMENT LIST FOR EXPANSION

ITEM No.	DESCRIPTION	QTY.
1	CONDUIT BUSHING, 1/4", INSULATED THROAT.	
2	SB-168 RUNWAY SPLICE (COUPLING) FOR 3/8"x 1/2" STL BAR.	
3	SB-2105 RUNWAY TERMINATION KIT.	
4	SB-2116-A RUNWAY HANGER SUPPORT KIT FOR USE WITH 5/8" HANGER ROD (SB-304).	
5	SB-15-09 CABLE RUNWAY 3/8"x 1/2" STL BAR WITH 1" x 1/2" x 1/8" CHANNEL RUNGS, ZINC PLATED, PAINTED GRAY. EACH SECTION SUPPLIED IS 9'-1 1/2" x 9"W.	
6	SB-304 THREADED ROD, ZINC PLATED, 5/8"-11. (ROD COUPLINGS ARE SB-306).	
7	SB-165 CORNER CLAMP BRACKET.	
8	SB-2106 RUNWAY END SUPPORT KIT.	
9	2-HOLE CONDUIT SUPPORT STRAP FOR 3/4" CONDUIT.	
10	ELEN CO. No.39 CONDUIT RISER CLAMP FOR 2 1/2" I.D. ELECTRICAL CONDUIT.	
11	ELEN CO. No.39 CONDUIT RISER CLAMP FOR 1 1/4" I.D. ELECTRICAL CONDUIT.	
12	ELEN CO. No.39 CONDUIT RISER CLAMP FOR 3/4" I.D. ELECTRICAL CONDUIT.	
13	APPLETON No. EYS-250 VERTICAL CONDUIT SEAL-OFF FITTING FOR 2 1/2" CONDUIT.	
14	APPLETON No. EYS-125 VERTICAL CONDUIT SEAL-OFF FITTING FOR 1 1/4" CONDUIT.	
15	APPLETON No. EYS-75 VERTICAL CONDUIT SEAL-OFF FITTING FOR 3/4" CONDUIT.	
16	AMER INSUL. WIRE No. A45003 TYPE SO CORD W/2 #14 + 1 #14 GRD, 90°C INSUL.	
17	CONDUIT, ELECTRICAL, 2 1/2", STL, HEAVYWALL, THREADED, GALV.	
18	CONDUIT BUSHING, 2 1/2", INSULATED THROAT.	
19	CONDUIT, ELECTRICAL, 1 1/4", STL, HEAVYWALL THREADED, GALV.	
20	CONDUIT ELECTRICAL, 3/4", HEAVYWALL, THREADED, GALV.	
21	CONDUIT BUSHING, 3/4" INSULATED THROAT.	
22	SB-15-24 CABLE RUNWAY, 3/8" x 1/2" STL BAR WITH 1" x 1/2" x 1/8" CHANNEL RUNGS, ZINC PLATED, PAINTED GRAY. EACH SECTION SUPPLIED IS 9' x 11 1/2" x 24"W.	
23	WATERPROOF JUNCTION BOX FOR 3/4" CONDUIT.	

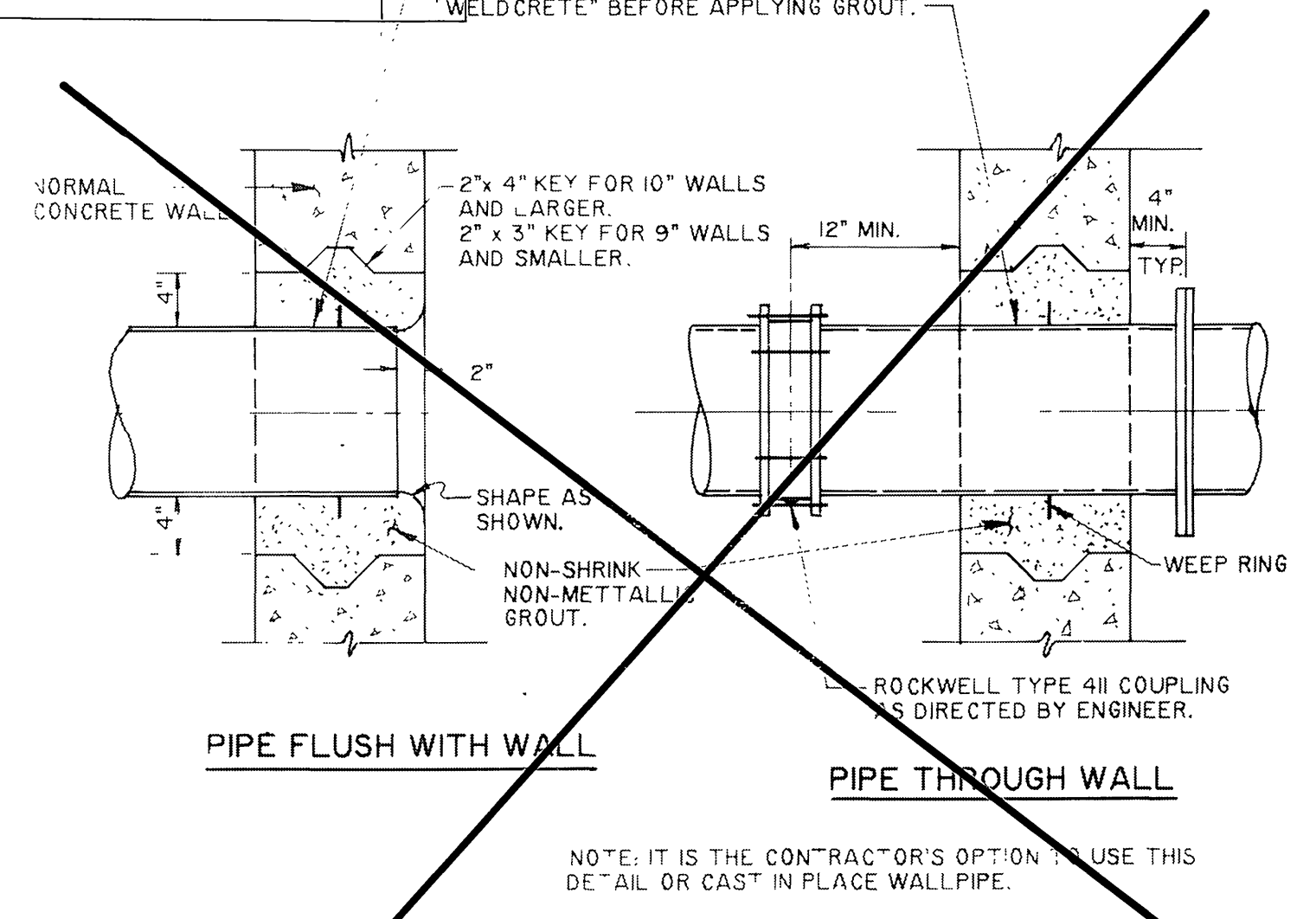
EQUIPMENT LIST

ITEM No.	DESCRIPTION	QTY.
1	SUBMERSIBLE PUMP AND MOTOR WITH S.S. SLIDE RAIL SYSTEM. WEMCO 4x15" 800 GPM @ TDH = 105'. 50 HP. 440 VOLT. 3Ø MOTOR.	2
2	16" DIA. D.I.P. FLANGED x FLANGED NIPPLE x 2'-11 1/2" LONG.	3
3	16"x16"x12" D.I. FLANGED WYE.	4
4	12" DIA. 125# D.I. BLIND FLANGE.	2
5	16" x 6" D.I. FLG'D NIPPLE REDUCER.	2
6	18" DIA. FLG'D PLUG VALVE ROTARY GEAR ACTUATOR "DEZURIK" FIG 18-F-6 RS7. AG66H2 KEYSITE 740 (3 COATS 10 TO 12 MIN. HOLIDAY TEST)	2
7	8" DIA. VICTAULIC FLANGE (STYLE 341)	2
8	12" DIA. VICTAULIC FLANGE (STYLE 341)	1
9	12" DIA. D.I. 45° ELL.	2
10	12"x8" DIA. D.I. VIC x VIC CONCENTRIC REDUCER (VIC. NO. 50-C)	1
11	8" DIA. OIL CUSHION SWING CHECK VALVES "APCO SERIES 6000".	2
12	8" DIA. D.I. 90° ELL.	5
13	12"x8" DIA. D.I. ECCENTRIC REDUCER.	1
14	8" DIA. D.I.P. FLANGED x VICTAULIC GROOVE x 1'-11" LONG.	1
15	8" DIA. D.I.P. FLANGED x FLANGED NIPPLE x 10 1/2" LONG.	1
16	16" DIA. KNIFE GATE VALVE RESILIENT SET WITH BEVEL GEAR OPERATOR "DEZURIK FIG 801 RS16".	1
17	16" DIA. D.I. WALL FLANGED x PLAIN END x 3'-0" LONG.	1
18	2" DIA. BRASS 90° ELL.	2
19	2" DIA. BRASS THREADED NIPPLE SCH. 80 x 2'-0" LONG.	1
20	2" DIA. PVC PIPE SCH. 80 x LENGTH AS REQUIRED.	1
21	2"x1/2" S.S. STRAP WALL FASTENER AND 1/4" DIA. S.S. WEDGE ANCHORS.	2
22	2" DIA. PVC UNION SCH. 80.	1
23	2" DIA. PVC 90° ELL.	2
24	SUMP PUMP 40 GPM @ TDH=20" MYERS WHRS". V&HP. 110 VOLT. 1Ø MOTOR. WITH FLCA CONTROL.	1
25	6" DIA. D.I. 45° ELL.	1
26	6" DIA. FLG'D PLUG VALVE ROTARY GEAR ACTUATOR "DEZURIK" FIG 18-F-6 RS16. AG66H2 KEYSITE 740 (3 COATS 10 TO 12 MIN. HOLIDAY TEST)	1
27	6" DIA. D.I. 90° ELL.	1
28	6" DIA. D.I. WALL FLANGED x PLAIN END 24" LONG.	1

NOTES:
 1. CABLE SUPPORT RUNWAY PART NUMBERS SHOWN ARE FROM SAUNDERS BROS. CO., SANTA FE SPRINGS, CA. TELEPHONE (213) 945-1038. SIMILAR EQUIPMENT IS AVAILABLE FROM DRACON CO. CHATSWORTH, CA. AND OTHERS.
 2. THE J-BOX & MICROSWITCH SHALL BE WATER-PROOF (SUBMERSIBLE) TYPES. (TYP. 4 PLCS.)



15 SEISMIC TIES @ END WALLS DETAIL
N.T.S.



16 TYPICAL PIPE INSERT AT WALL
N.T.S.

Underground Service Alert
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 TWO WORKING DAYS BEFORE YOU DIG

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PREPARED UNDER THE DIRECTION OF:
 REGISTERED CIVIL ENGINEER NO. 43548
 EXPIRATION DATE: 6-30-92. DATE: 8-29-90
 APPROVED BY:
 REGISTERED PROFESSIONAL ENGINEER
 TRIVING HILLER
 No. 8222
 9-20-74
 ELECTRICAL
 STATE OF CALIFORNIA
 8/31/90

J.F. Davidson Associates, Inc.
 ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
 3880 Lemon Street, Suite 300 P.O. Box 493 Riverside, CA 92502 (714) 686-0844 FAX 714-686-9954
 11200 S. Mt. Vernon Ave., Suite "D" Colton, CA 92324 (714) 825-1082
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MARK REVISIONS APPR. DATE
 DESIGNED BY RC DRAWN BY RH CHECKED BY RC

CITY OF RIVERSIDE, CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 APPROVED BY: [Signature] DATE: 10/15/90
 PRINCIPAL ENGINEER
 APPROVED BY: [Signature] DATE: 10/15/90
 DIRECTOR OF PUBLIC WORKS
 CHIEF P.W. ENGR. DATE: 10/15/90

WOOD ROAD SEWAGE LIFT STATION EXPANSION
 ELECTRICAL-SECTION "B" VIEW
 HORIZ. SCALE: 1" VERT. SCALE: 1"

PROJECT NO. 27-526-381
S-1430D
 SHEET 9 OF 9
 FILE NO. 9011994

INDEXED 2-6-91 LH