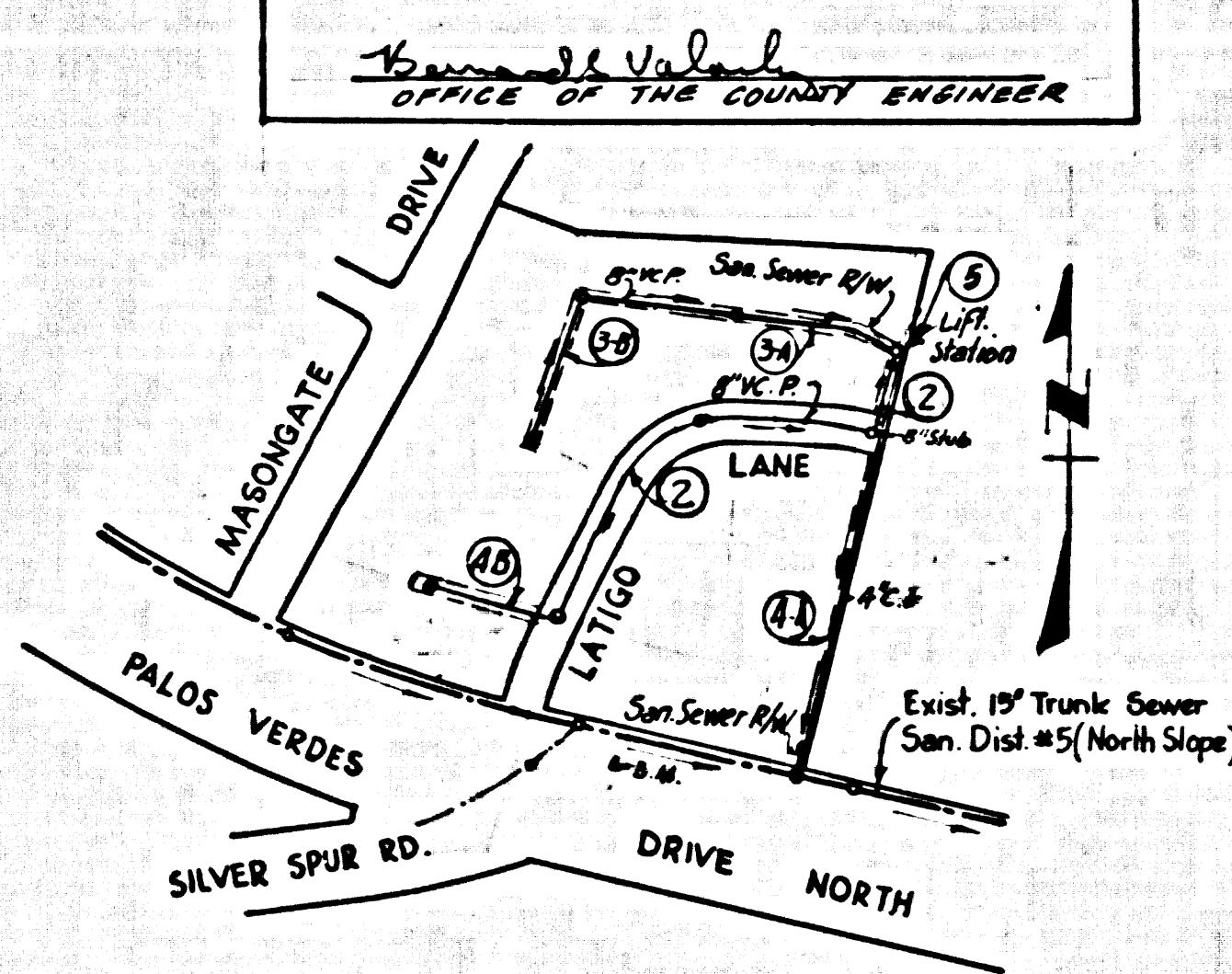


B.M. BY 4424 ELEV 503.405
 MARKED BY 49-3 12 3869
 County Surveyor Brass Cap Mark with
 ground 132 1/2' Ely & 38 1/2' Nly of E. Inf. Silver Spur Rd.
 & Palos Verdes Dr. North, 2 1/2 Sly wood rail fence
 PALOS VERDES QUAD. 1965 ADJ.

REVISION 2-13-68
 PAGE 3113 LOWERED GRADE OF
 SEWER. SET. 10' @ 4.40
 & 5' @ 23.23 (4) & 27.14
 STA. 112.6 & 312.99 (4)
 ADDED 10' SHOULDER
 @ 8' V.C.P. @ STA. 3100.



INDEX MAP
 P.C. No. 7969
 SCALE: 1"=300'
 TRACT NO. 26571

PERMITS
 THE CONTRACTOR (OR OWNER) SHALL OBTAIN THE FOLLOWING PERMITS AND PAY THE REQUIRED FEES BEFORE STARTING CONSTRUCTION ON THE SEWERAGE LAYOUT EXISTING.
 1. CONSTRUCTION PERMIT
 2. PLUMBING PERMIT
 3. ELECTRICAL PERMIT

UNDERGROUND STRUCTURES

ALL UNDERGROUND UTILITIES OR STRUCTURE REPORTED BY THE OWNER OR OTHERS & THOSE SHOWN ON THE RECORDS EXAMINED ARE INDICATED WITH THEIR APPROXIMATE LOCATION & EXTENT.

THE OWNER BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS PURSUANT THERE TO AGREES TO ASSUME LIABILITY & TO HOLD UNDERSIGNED HARMLESS FOR ANY DAMAGES RESULTING TO THE EXTENT OF THE UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED TO THE UNDERSIGNED & NOT INDICATED ON THE PUBLIC RECORDS EXAMINED & LOCATED AT VARIANCE WITH THAT REPORTED OR SHOWN ON RECORDS EXAMINED.

THE CONTRACTOR IS REQUIRED TO TAKE THE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES SHOWN & ANY OTHER UTILITIES OR STRUCTURES FOUND AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK.

Raymond L. Quigley
 RAYMOND L. QUIGLEY R.C.E. NO. 7191

ALL CONNECTIONS FOR THE DISPOSAL OF HOSPITAL WASTES SHALL BE MADE TO THE MAIN LINE OF THESE SEWERS & WITHOUT WRITTEN PERMISSION FROM THE CHIEF ENGINEER AND GENERAL MANAGER TO THE COUNTY SANITATION DISTRICTS.

COLLECT CHARGES AS INDICATED

DOUBLE SCALE
 CITY OF ROLLING HILLS ESTATES BLDG. DIST. NO. 12.03

- NOTE:
- PROVIDE STAKES ON THE PROPERTY LINE OR PROPERTY LINES PRODUCED AT RIGHT ANGLES TO THE SEWER LINE AT THE CENTER LINE OF EACH MANHOLE.
 - NO REPRESENTATIVE OF THE CITY ENGINEER WILL SURVEY OR LAY OUT ANY PORTION OF THE WORK.
 - THE PRIVATE ENGINEER SHALL FURNISH THE CITY ENGINEER WITH GRADE SHEETS AND STATIONING FOR ALL HOUSE LATERALS AND Y BRANCHES AND SHALL PROVIDE STAKES FOR THEM AT THEIR PROPER LOCATIONS WITH STATIONING PLAINLY MARKED. ALL HOUSE LATERALS SHALL BE CONSTRUCTED IN A STRAIGHT ALIGNMENT AT RIGHT ANGLES FROM THE MAIN LINE SEWER EXCEPT AS SHOWN ON THE PLANS. HOUSE LATERALS FROM CHIMNEYS SHALL NOT HAVE AN ANGLE OF LESS THAN 45° WITH THE MAIN LINE SEWER. ANY CHANGE IN ALIGNMENT SHALL BE REQUESTED IN WRITING BY THE PRIVATE ENGINEER.
 - THE PRIVATE ENGINEER SHALL FURNISH THE HOUSE LATERAL DEPTH AT THE PROPERTY LINE BELOW THE TOP OF CURB ELEVATION FOR EACH HOUSE LATERAL ON THE GRADE SHEET.
 - NO REVISIONS SHALL BE MADE IN THESE PLANS WITHOUT THE APPROVAL OF THE CITY ENGINEER.
 - THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION DIVISION BY TELEPHONE, MADISON 9-4747, EXT. 8558, AT LEAST TWENTY-FOUR HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
 - MANHOLES SHALL BE BRICK SEWER STRUCTURES PER S-8 OR PRECAST CONCRETE MANHOLES PER S-8 OR S-4.
 - "T" OR "Y" BRANCHES MAY BE USED FOR CONNECTIONS TO MAIN LINE SEWER AS NOTED.
 - MANHOLE TOPS IN UNIMPROVED RIGHTS-OF-WAY TO BE SIX INCHES ABOVE FINISHED GRADE.
 - USE EXTRA STRENGTH PIPE ALL PIPE IS STANDARD DEPTH EXCEPT AS NOTED.
 - IDENTIFIED CLAY PIPE JOINTS SHALL BE TYPE "X" 12" OR 14" PER STD. SPEC. SEC. 248.2.
 - ALL STATE AND LOCAL TRAFFIC SAFETY DEVICES SHALL BE STRICTLY ENFORCED.
 - IF A POWER POLE IS WITHIN THREE FEET OF THE SEWER, THE SEWER SHALL BE ENCASED, PER S-25, CASE B, TWO FEET ON EITHER SIDE FROM THE POINT OF INTERFERENCE.
 - IF DURING THE COURSE OF CONSTRUCTION IT IS DETERMINED THAT THERE IS LESS THAN FOUR FEET OF COVER OVER THE TOP OF A MAIN LINE OR HOUSE LATERAL V.C.P. SEWER WHICH IS NOT INDICATED ON THE PLANS, THE PIPE SHALL BE ENCASED PER S-25 UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
 - HOUSE LATERALS TO BE CONSTRUCTED WITH INVERTS AT PROPERTY LINE ... FEET BELOW CURB GRADE EXCEPT AS NOTED.
 - RESURFACE ALL FINISHED DRIVEWAYS WITHIN DRIVE AREAS TO MEET L.A. COUNTY ROAD DEPT. OR CALIFORNIA STATE HIGHWAY REQUIREMENTS IN ACCORDANCE WITH PERMITS.
 - SEWERS TO BE TESTED FOR LEAKAGE PER SECTION 308-307 STANDARD SPECIFICATIONS.
 - CONSTRUCTION IN PAVED AREAS:
 - AN ACCEPTABLE DETERMINATION OF CONSTRUCTION TEST RESULTS SHALL BE SUBMITTED TO THE CONSTRUCTION DIVISION. CONSTRUCTION TESTS ARE TO BE MADE IN ACCORDANCE WITH U.S.T.M.
 - CONSTRUCTION IS PERMITTED IN PAVED AREAS WHERE THE RELATIVE DENSITY OF CONSTRUCTION IS LESS THAN 80%.
 - IF THE RELATIVE DENSITY OF CONSTRUCTION IS LESS THAN 80%, ALL MAIN LINE AND HOUSE LATERALS SHALL BE ENCASED PER S-25 OR MADE OF SPECIAL PORTLAND CEMENT BASE PER S-21, CLASS III, SPECIAL MIX DESIGN PER S-14 AND ENCASED.
 - IF THE RELATIVE DENSITY OF CONSTRUCTION IS 80% OR GREATER, THE SEWERAGE STRUCTURES IN (a) ARE NOT REQUIRED.
 - WHERE LOCATED AT THE END OF A DRIVE, THE LOCATION OF SUCH HOUSE LATERALS SHALL NOT BE MORE THAN FIVE FEET FROM THE DRIVE ENDS. ENCASED SEWERS SHALL BE MADE WITH A RUBBER SLIPSEAL JOINT TYPE "C" OR "D" (WITH A GASKET IN NECESSARY).
 - THE FOLLOWING CITY ENGINEER STAMPED BLANK APPLY TO THIS PROJECT:

WORKING RECREATION SAFETY REQUIREMENTS	1-5
SEWERAGE	1-5
NON-REINFORCED PRECAST CONC. MAN.	1-5
MANHOLE	1-5
MANHOLE STEP	1-11
SEWERAGE	1-11
CONCRETE	1-11
PIPE OR TIE SUPPORT	1-28
MANHOLE	1-28
MANHOLE TRENCHING	1-28
MANHOLE	1-28
SADDLES	1-28

PROFILE ALIGNMENT AND GRADE OF
 SANITARY SEWERS PAGE 1
 TO BE CONSTRUCTED IN

TRACT No 26571
 PRIVATE CONTRACT NO. 7969

7 W.S. 27
 5 SHEETS, 6 PAGES
 SCALE: 1"=100' HORIZ. 1"=10' VERT.
 OCTOBER, 1967
 PREPARED IN THE OFFICES OF
 SOUTH BAY ENGINEERING CORP.
 Raymond L. Quigley
 REG. C.E. NO. 7191

41147

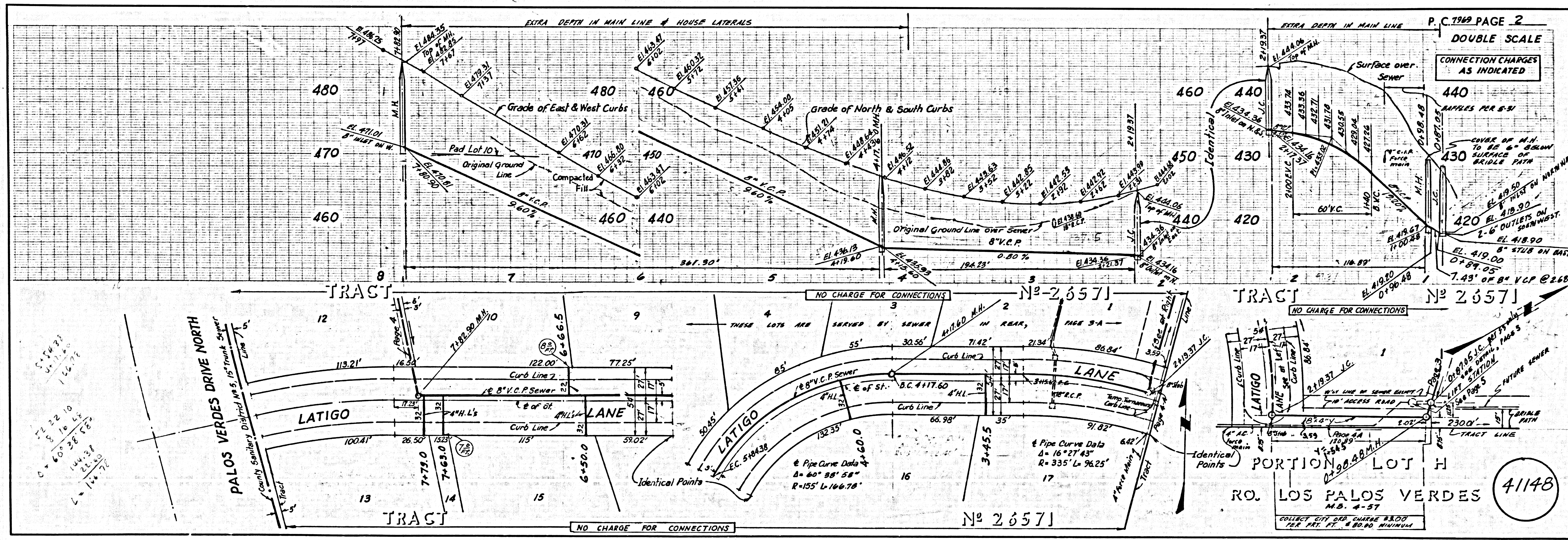
FOR LEGEND SEE PLAN NO. S-1

NOTE:
 GRADES TO WHICH THIS IMPROVEMENT IS TO BE CONSTRUCTED ARE SHOWN ON PLANS AND PROFILES. GRADE POINTS FOR FOR CURBS, CENTER LINE OF STREETS, OR CENTER LINE OF ALLEYS ARE SHOWN BY CIRCLES ON PROFILES. AT ALL POINTS BETWEEN DESIGNATED ELEVATIONS ARE IN FEET ABOVE U.S.C. & G.S. 3d ELEV. DATUM OF 1929.
 THIS DRAWING AND THE DATA HEREON ARE HEREBY MADE A PART OF THE SPECIFICATIONS.
 WORK SHALL BE CONSTRUCTED ACCORDING TO STANDARD SPECIFICATIONS FOR SEWERAGE OF THE CITY OF ROLLING HILLS, CALIFORNIA.
 BEFORE WORK CAN BE STARTED, THE CONTRACTOR MUST OBTAIN A PERMIT TO EXCAVATE IN CITY STREETS FROM THE CITY ENGINEER, 2950 ROLLING HILLS ROAD, ROLLING HILLS, CALIFORNIA.
 APPROVAL OF THIS PLAN BY THE CITY OF ROLLING HILLS DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION OF OR THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY PIPE, OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THIS NOTE APPLIES TO ALL PAGES.
 IF WORK IS TO BE DONE IN A STATE HIGHWAY, A PERMIT MUST BE OBTAINED FROM THE STATE OF CALIFORNIA, DIVISION OF HIGHWAYS, 126 SOUTH SPRING STREET, LOS ANGELES, CALIFORNIA.

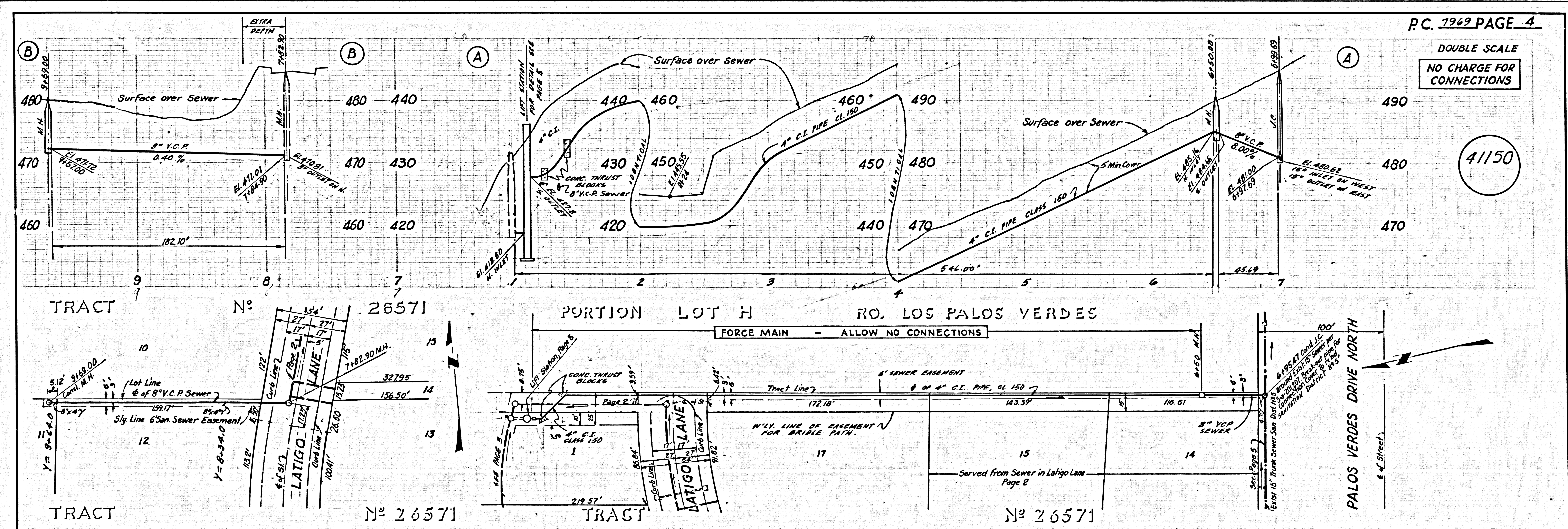
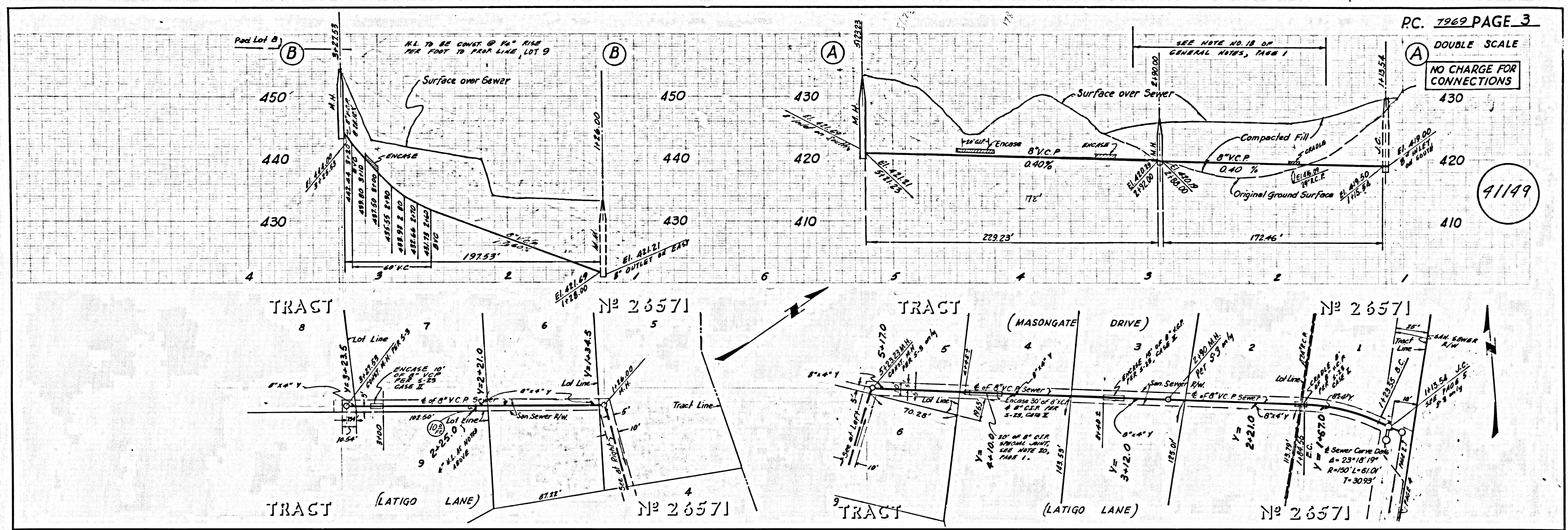
CITY OF ROLLING HILLS ESTATES, CALIFORNIA
 JOHN A. LAMBIE, CITY ENGINEER
 J. D. PARKHURST, CHIEF ENGINEER
 CO. SAN. DIST. NO. 12

APPROVED BY: Robert M. ...
 PALOS VERDES-CENTINELA VALLEY

CHECKED BY: Raymond L. Quigley 5/31/68
 REG. C.E. NO. 7191



41148

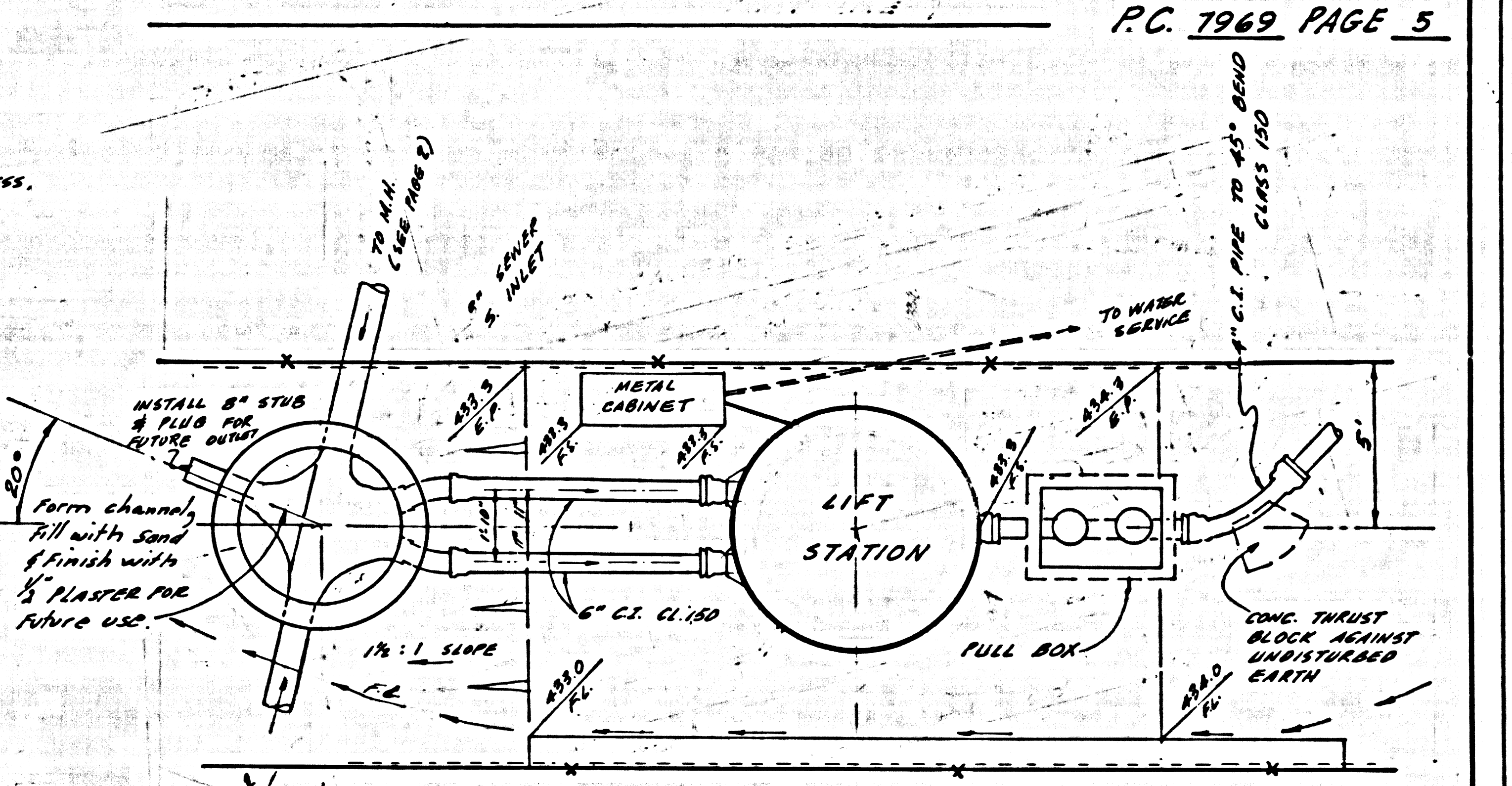


HYDRAULIC CALCULATIONS

AREA TO BE SERVED = 6.84 ACRES
Q_{AVE} = 0.02 cfs
Q_{PEAK} = 0.06 cfs
STATIC HEAD = 67.9 FT.
HEAD LOSS DUE TO FRICTION & FITTINGS = 7.8'
TOTAL DYNAMIC HEAD = 76'

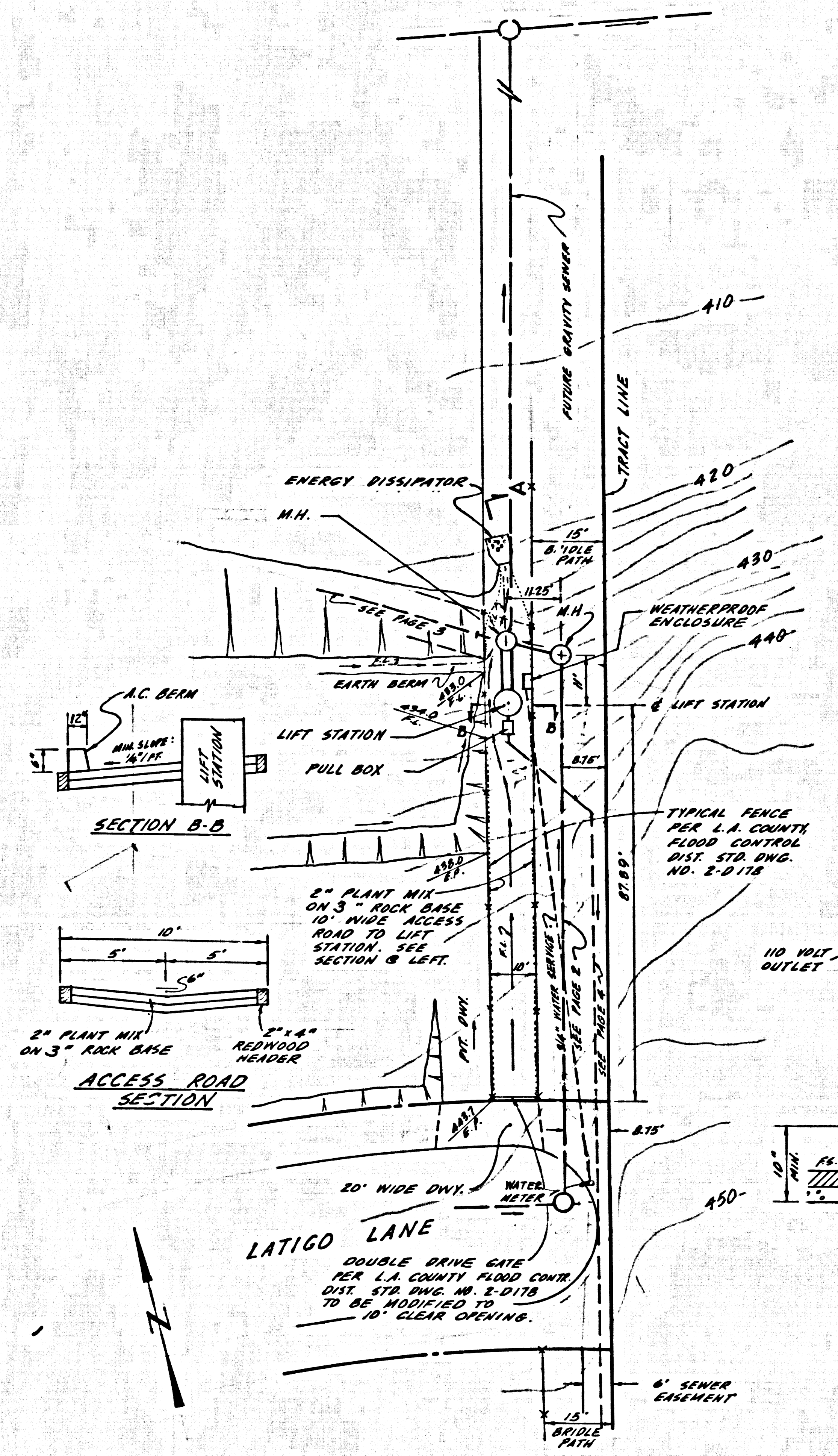
NOTICE TO CONTRACTOR

THE LIFT STATION SHOWN IS A FACTORY BUILT LIFT STATION AS MANUFACTURED BY SMITH & LOVELESS, INC. OF KANSAS CITY, MISSOURI.
THE CONTRACTOR (OR OWNER) SHALL FURNISH THE COUNTY ENGINEER WITH ALL OPERATING MANUALS, PARTS LIST, GUARANTEES, WIRING DIAGRAM, AND SPECIAL TOOLS.
ALL ELECTRICAL EQUIPMENT & WIRING SHALL BE IN CONFORMANCE WITH REQUIREMENTS OF THE CITY OF ROLLING HILLS ESTATES, UTILITY COMPANY AND COUNTY & STATE CODES.
THE CONTRACTOR (OR OWNER) SHALL FURNISH TO THE CITY AND/OR THE COUNTY ENGINEER WITH A CERTIFICATE OR STATEMENT FROM THE STATE OF CALIFORNIA, DIVISION OF INDUSTRIAL SAFETY THAT PUMPING STATION INSTALLED UNDER THIS CONTRACT COMPLIES WITH ALL APPLICABLE STATE OF CALIF. INDUSTRIAL SAFETY REQUIREMENTS.

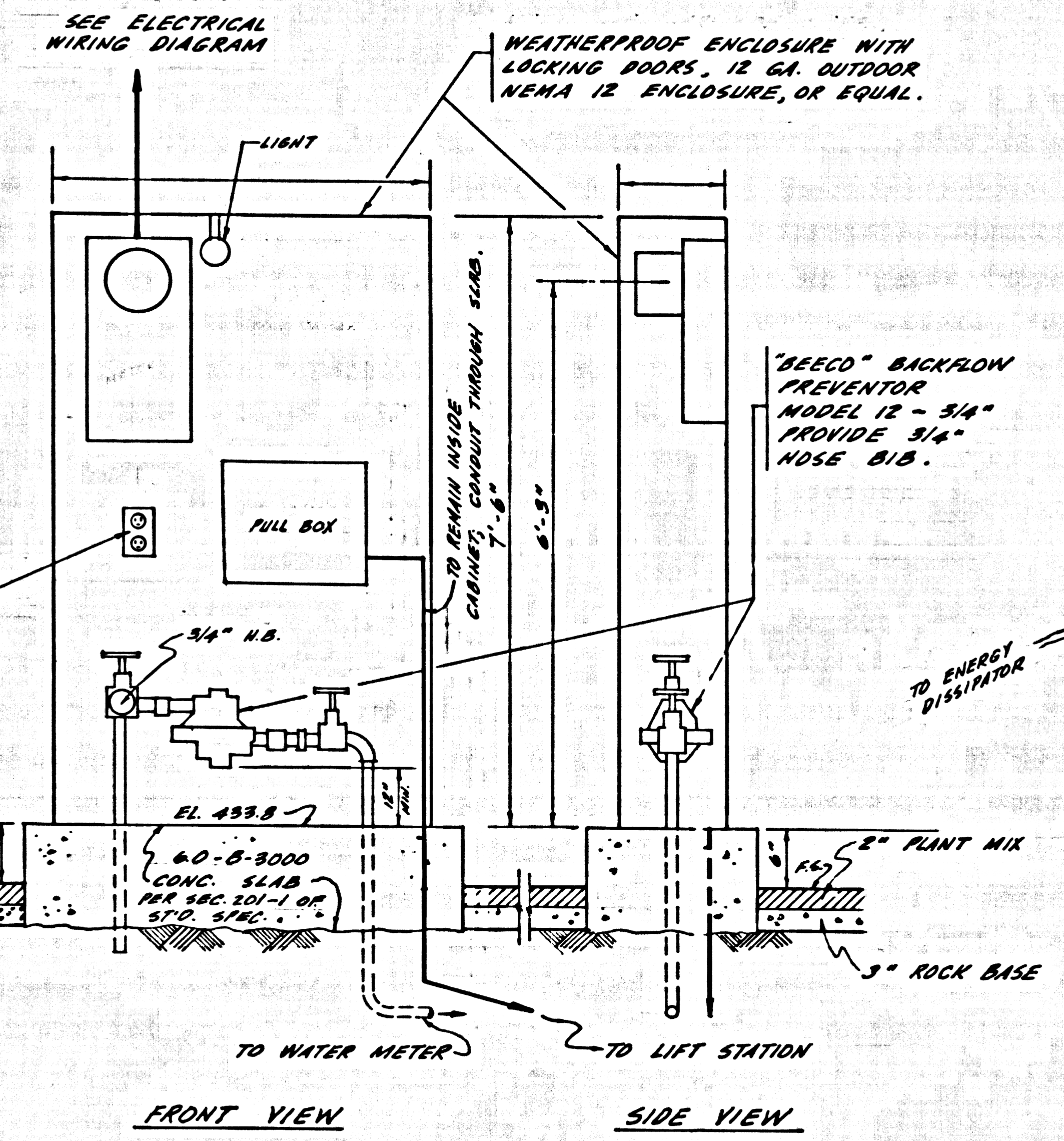


PLAN VIEW
SCALE 1" = 3'

41151

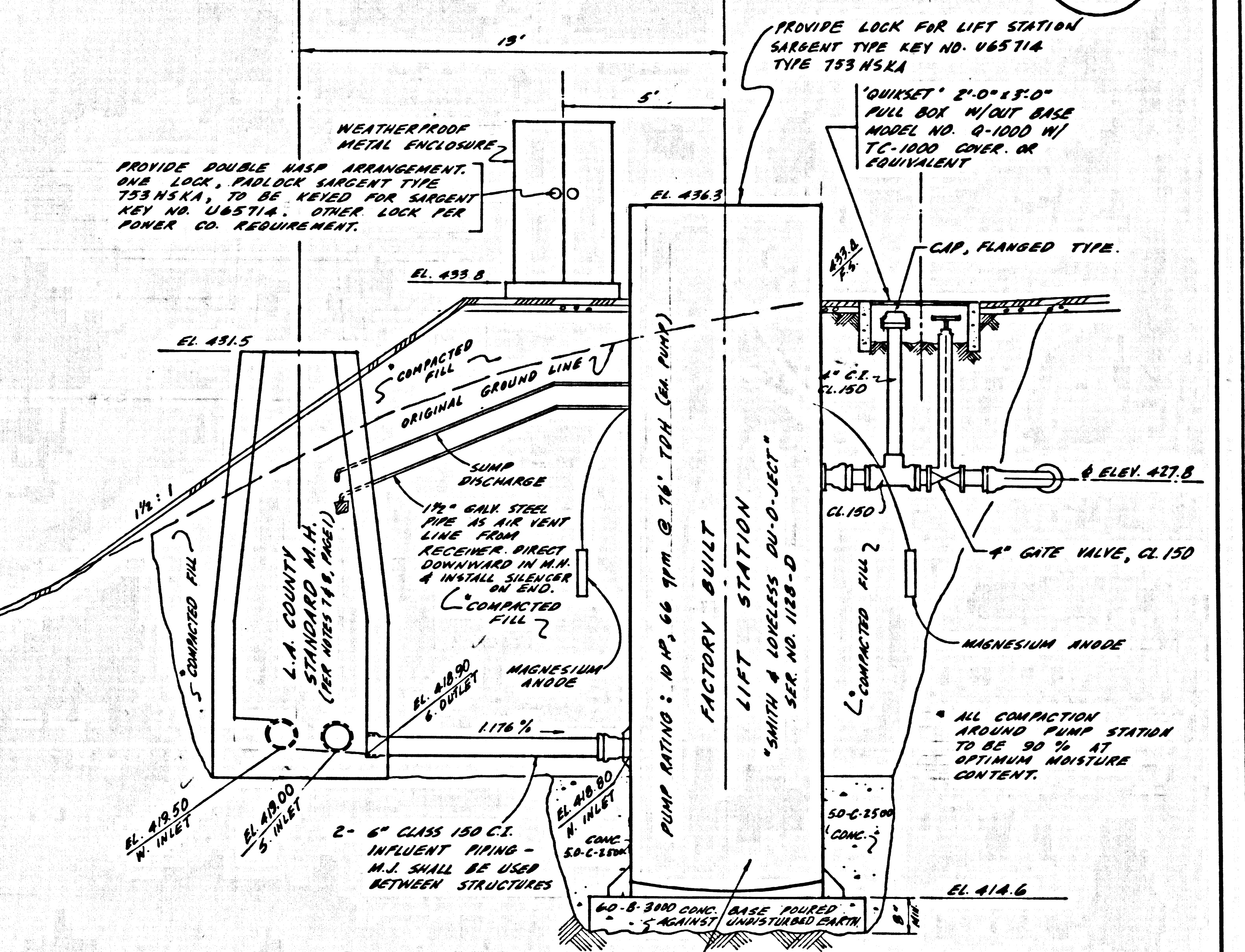


SITE LAYOUT
SCALE: 1" = 20'



ELECTRICAL CABINET AND 3/4\"/>

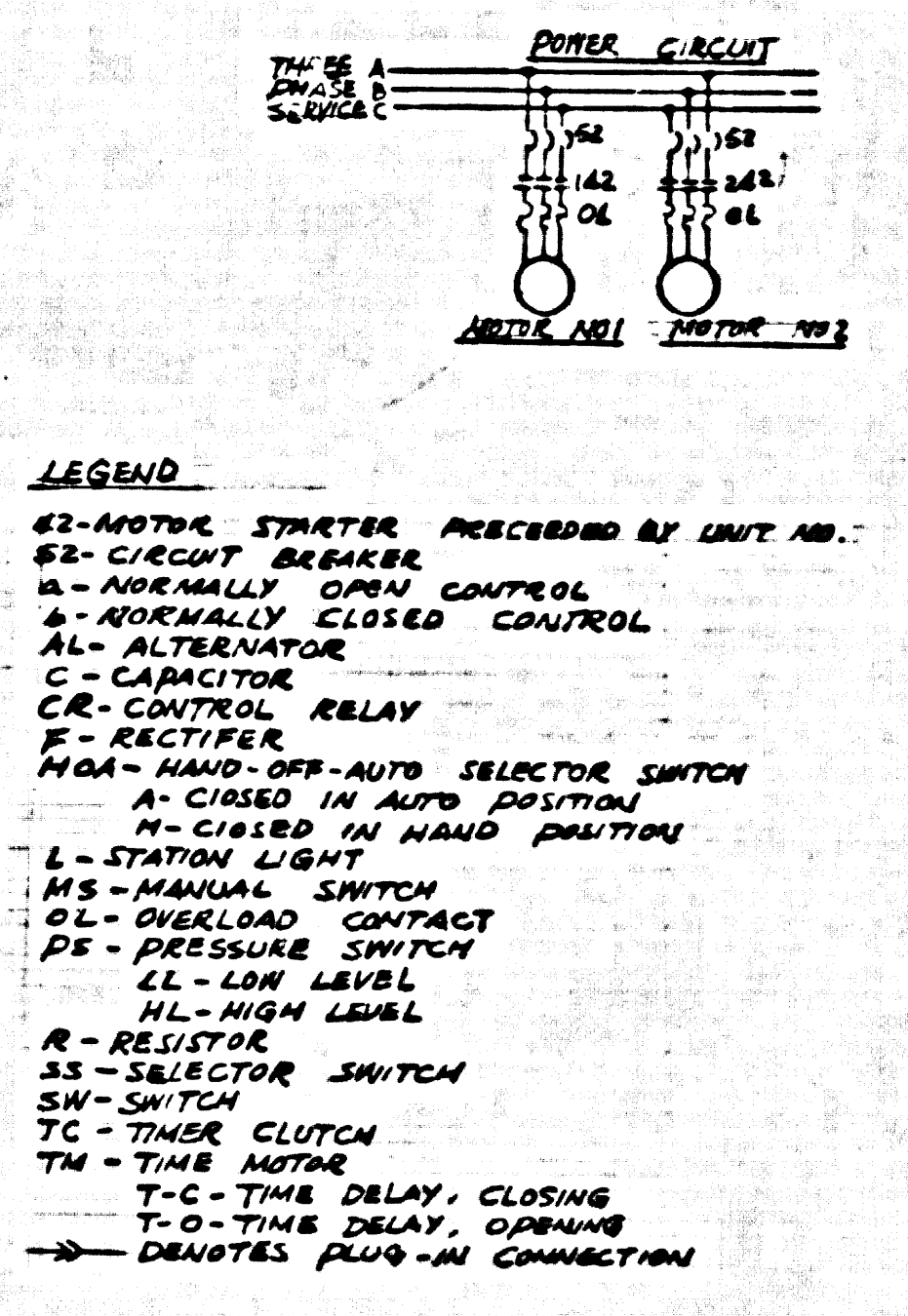
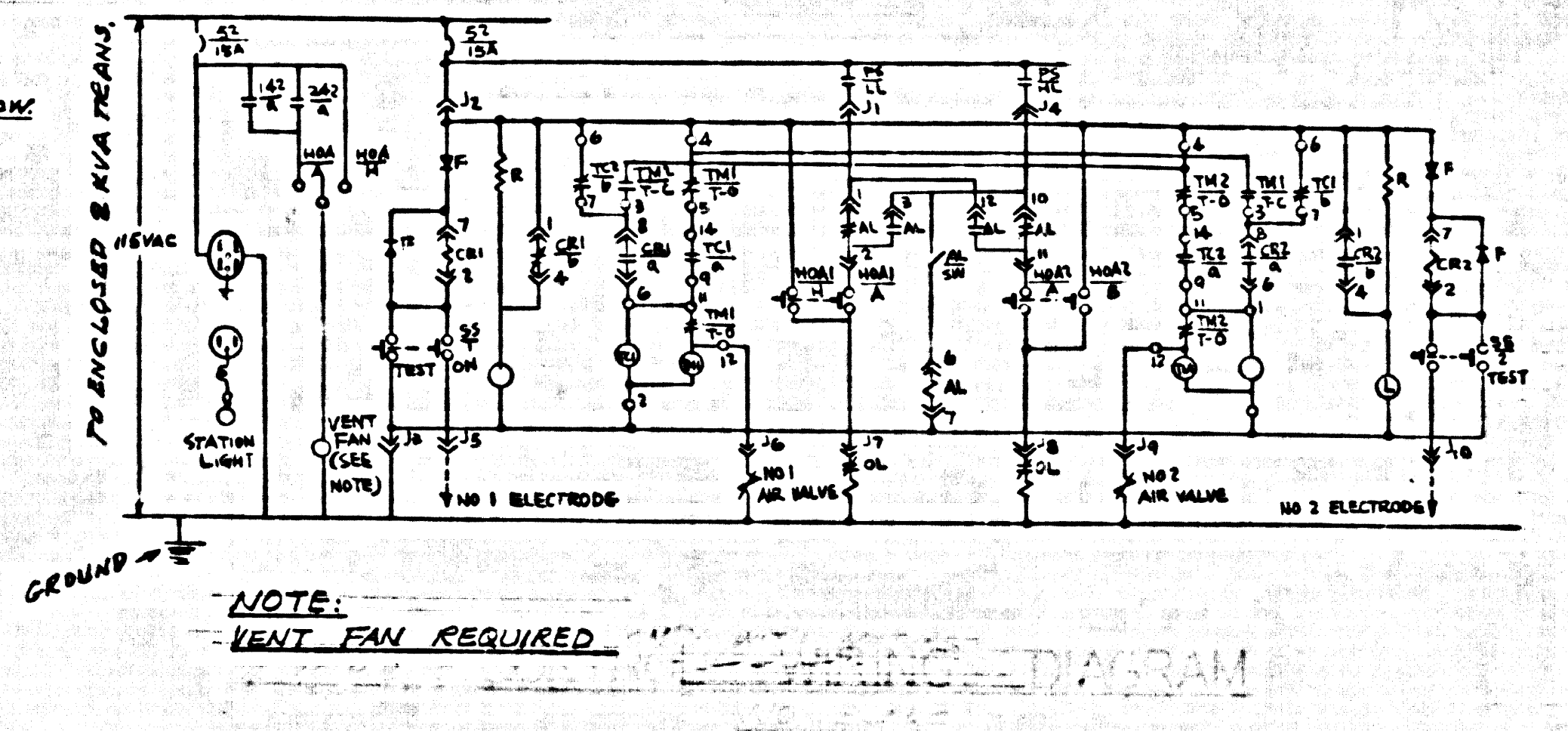
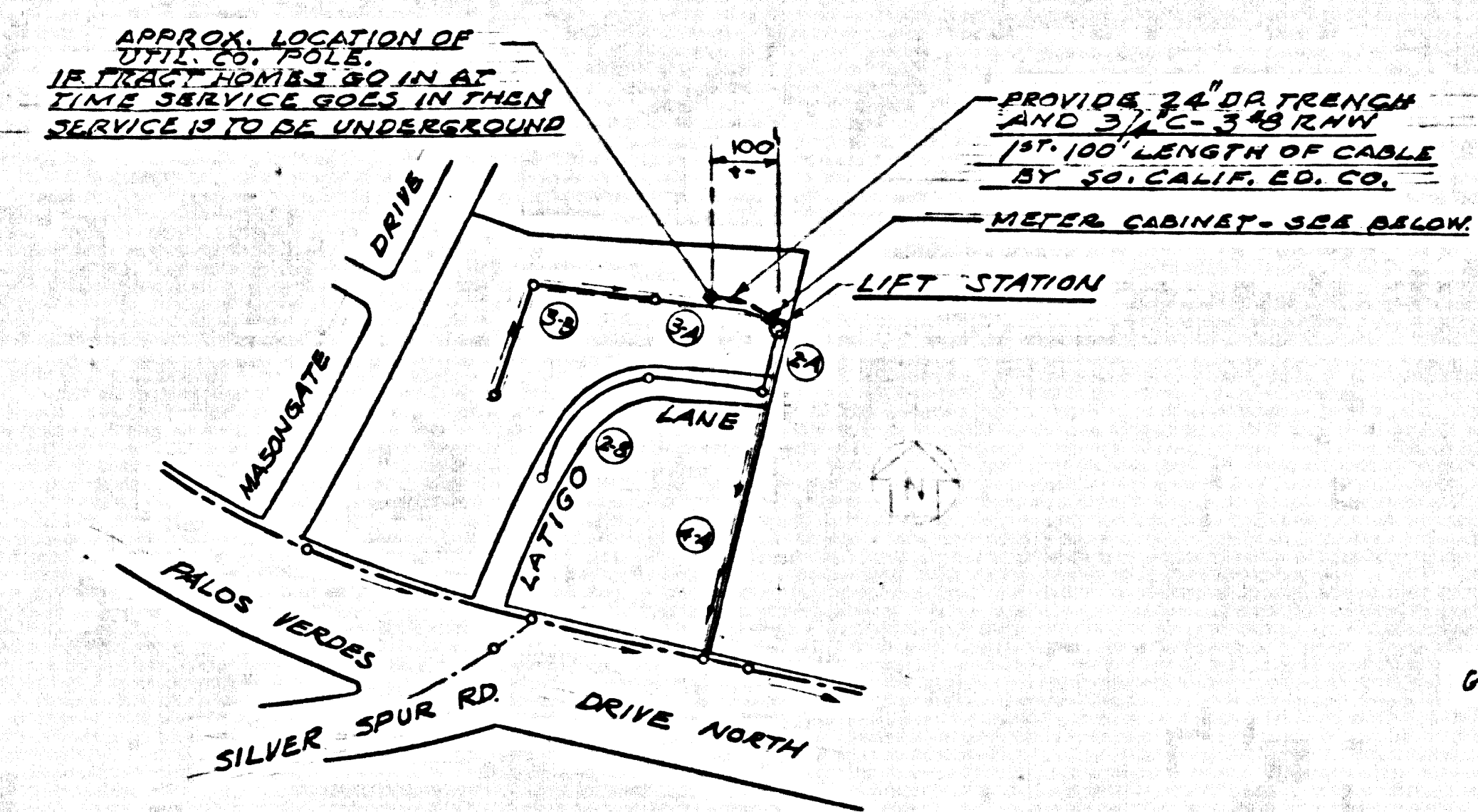
NO SCALE



SECTION A-A
SCALE 1" = 3'

STEEL CYLINDER SHALL CONFORM TO REQUIREMENTS OF ASME ST.D. FOR WELDED STEEL PRESSURE VESSELS. WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY'S SPECIFICATION NO. D.10.

3 0807 09 1969 11 10A91

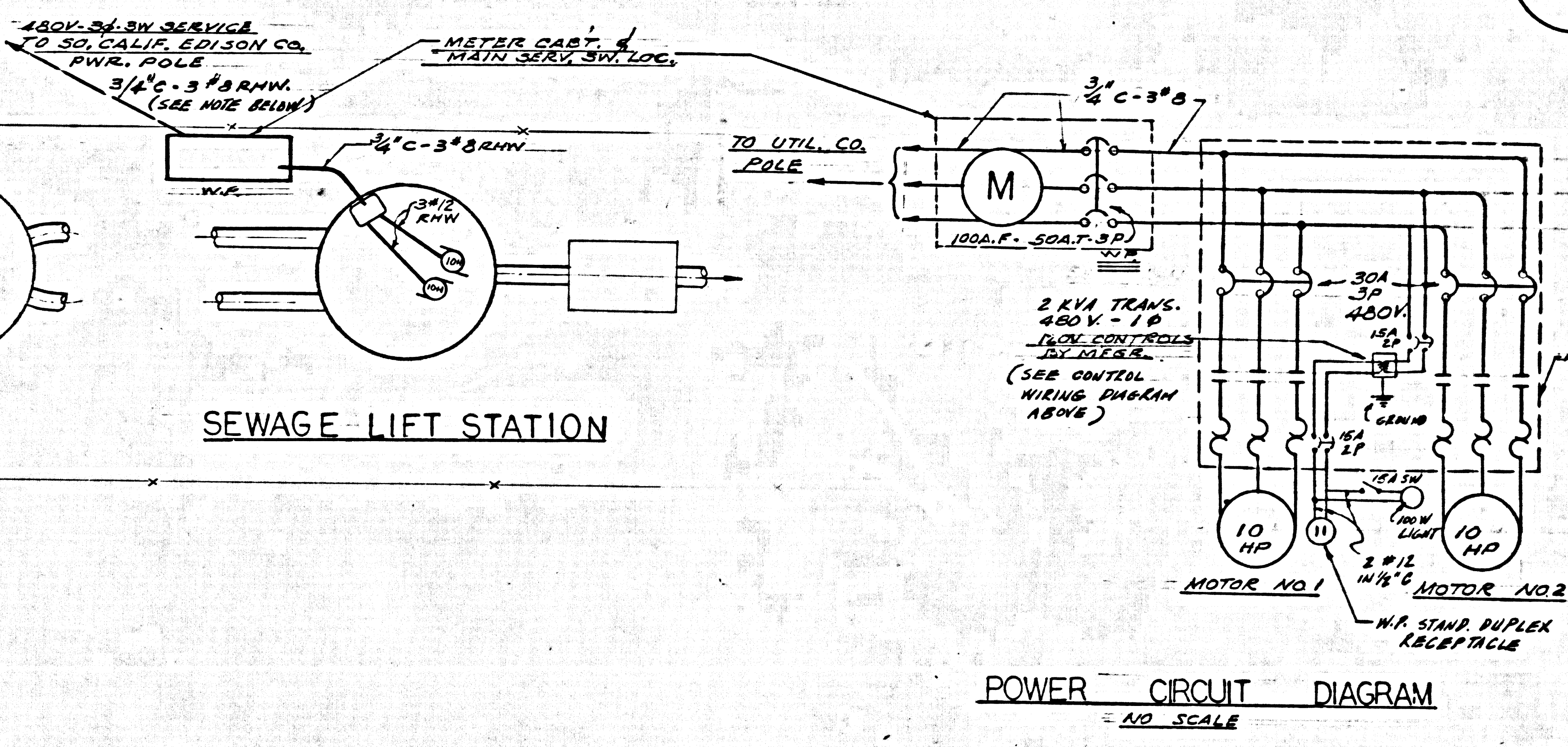
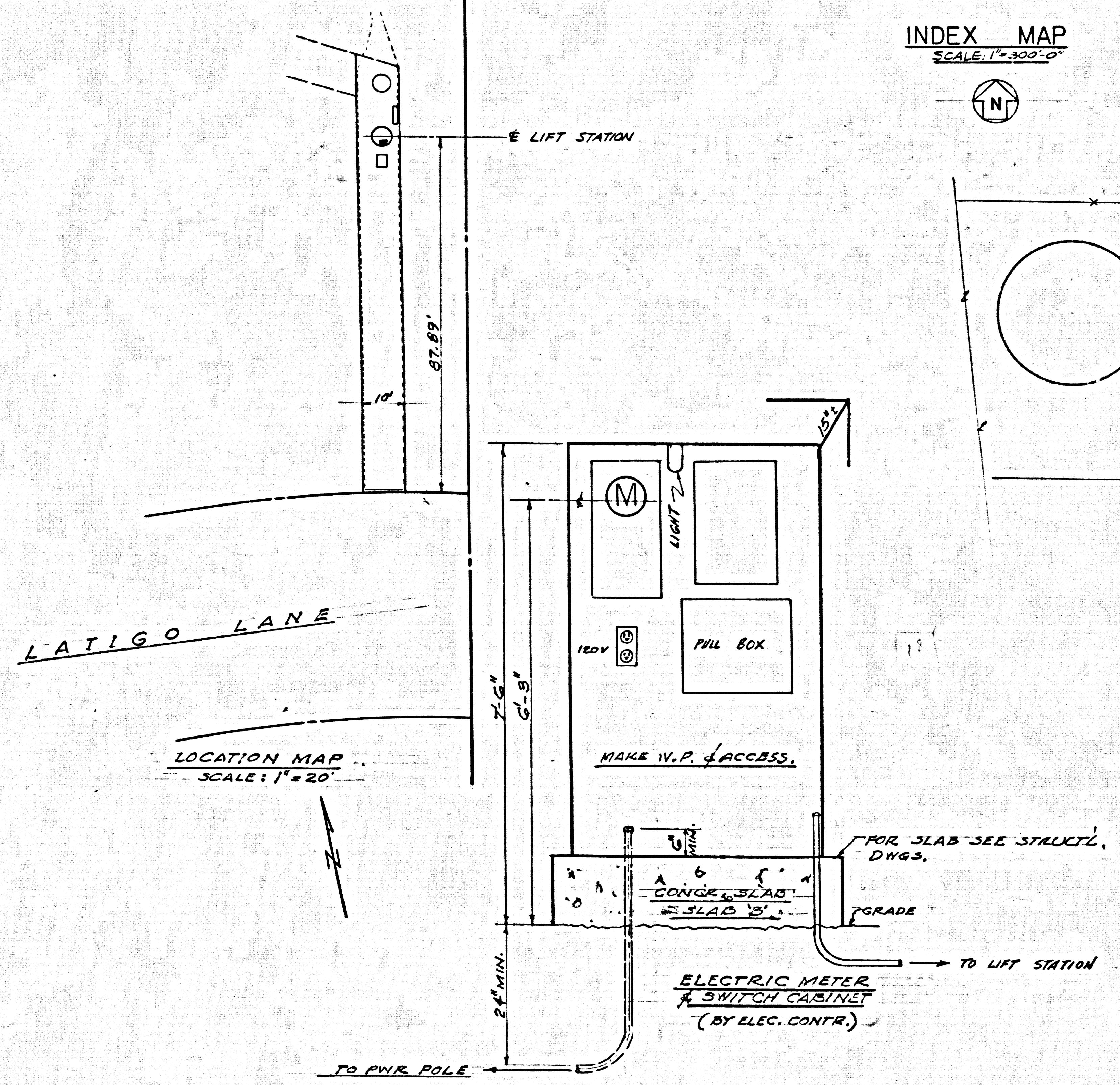


- LEGEND
- 42 - MOTOR STARTER PERFORMED BY UNIT NO.
 - 43 - CIRCUIT BREAKER
 - 44 - NORMALLY OPEN CONTROL
 - 45 - NORMALLY CLOSED CONTROL
 - C - CAPACITOR
 - CR - CONTROL RELAY
 - F - RECTIFIER
 - MA - HAND-OFF-AUTO SELECTOR SWITCH
 - M - CLOSED IN HAND POSITION
 - M - CLOSED IN AUTO POSITION
 - L - STATION LIGHT
 - MS - MANUAL SWITCH
 - OL - OVERLOAD CONTACT
 - PS - PRESSURE SWITCH
 - LL - LOW LEVEL
 - HL - HIGH LEVEL
 - R - RELAY
 - SS - SELECTOR SWITCH
 - SW - SWITCH
 - TC - TIMER CLUTCH
 - TR - TIME MOTOR
 - T-C - TIME DELAY CLOSING
 - T-D - TIME DELAY OPENING
 - DEVIATES PLUG-IN CONNECTION

INDEX MAP
SCALE: 1"=100'-0"

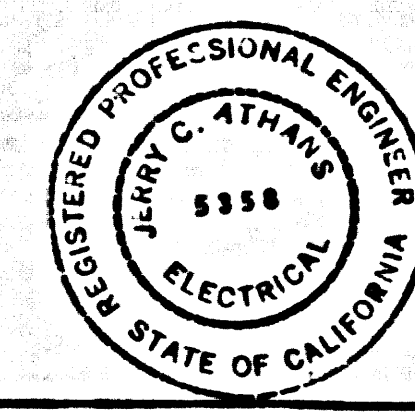
CONTROL WIRING DIAGRAM
NO SCALE

41152



POWER CIRCUIT DIAGRAM
NO SCALE

NOTE:
ALL WIRING SHALL COMPLY
WITH LOS ANGELES COUNTY
ELECTRICAL CODE.



JERRY C. ATHANS
REGISTERED ELECTRICAL ENGINEER
1453 VANOWEN ST. ST. 2-2552
VAN NUYS, CALIF. ST. 2-2552

Date: 4-13-65
Job No: 7473
Dr. J.C.A.
Ch. J.C.A.

E-1
OF 1