

WATER & SEWER CODE  
 COUNTY USE ONLY:  
 WATER - 607  
 SEWER - N/A

DEPARTMENT OF PUBLIC WORKS  
 BUREAU OF ENGINEERING  
 CONSTRUCTION NOTES

GENERAL - PART I

1. Approximate location of existing mains are shown. The contractor shall take all necessary precautions to protect existing mains and services and maintain uninterrupted supply. Any damage incurred shall be repaired immediately to the satisfaction of the Engineer, at the Contractor's expense.
2. All horizontal controls are based on Maryland State Coordinates.
3. All vertical controls are based on U.S.C.S. Datum.
4. All pipe elevations shown are invert elevations.
5. Clear all utilities by a minimum of 6". Clear all poles by 2'-0" minimum or tunnel as required. Any cost incurred to the contractor for tunneling or bracing at poles shall be included in unit prices bid for construction of the main.
6. For details not shown on the drawings use Howard County Standard Details.
7. For materials and construction methods use Howard County Standard Specifications.
8. Contractor shall locate existing utilities a minimum of two (2) weeks in advance of construction operations in the vicinity of proposed utilities at his own expense.
9. Contractor shall notify the following utilities or agencies at least five (5) working days before starting work shown on these plans:

- State Highway Administration - 531-5533
- Baltimore Gas & Electric Company - Underground Electric Distribution Customer Service - 685-0123
- Baltimore Gas & Electric Company - Underground Gas Distribution Customer Service - 685-0123
- Engineering - "Damage Control" - 234-5621
- "Miss Utility" - 1-559-0100
- Chesapeake & Potomac (C&P) Telephone Company - 725-9976
- American Telephone and Telegraph - Cable Location Division - 393-3553
- Colonial Pipeline Company - 781-4641
- Bureau of Utilities Howard County - 992-2366

10. Trees are to be protected from damage to maximum extent. Trees located within the construction strip are not to be removed or damaged by the contractor.
11. Contractor shall remove trees, stumps and roots along line of excavation as directed by the Engineer. Payment for such removal shall be included in the unit price bid for construction of the main.
12. Place regulation "Men Working" and warning signs as required to comply with Maryland State Highway Administration Manual of Traffic Control for Highway Construction and Maintenance Operations.

WATER - PART II

1. All water mains to be C.I.P. or D.I.P. unless otherwise noted.
2. Top of all water mains to have a minimum of 3-1/2' cover unless otherwise noted.
3. Valves adjacent to tees shall be strapped to tees.
4. Block all fittings with concrete.
5. Bury line elevations on fire hydrants shall be set to the elevations shown on the drawings. All fire hydrants shall be strapped and buttressed with concrete in accordance with standard details. Soil around the fire hydrant to be compacted in accordance with Sections 37.01 and 37.05 of the Standard Specifications.
6. All water house connections shall be for an inside meter setting.
7. The contractor shall not operate any water main valves on the existing system.

QUANTITIES				INDEX OF DRAWINGS	
ITEM	DESIGN	AS-BUILT	SUPPLIER		
12" W	3060 LF	2997 LF	D.S. PIPE	1	LOCATION MAP
8" W	10 LF	10 LF	FRUNGER	2	PLAN OF 12" WATERMAIN
6" W	77 LF	64 LF	FRUNGER	3	PROFILE OF 12" WATERMAIN
HYDRANTS	2 EACH	SAME 2	DRESSER	4	SITE AND GRADING PLAN
12" VALVES	7 EACH	5+2 (VAULT)	DRESSER	5	SEDIMENT CONTROL PLAN
10" VALVES	3 EACH	3	DRESSER	6	ALTITUDE VALVE VAULT
8" VALVES	1 EACH	1+1 (VAULT)	DRESSER	7	ELECTRICAL
6" VALVES	3 EACH	2	DRESSER	8	ELECTRICAL
ALT. VALVES	1 EACH	1	G.A. INDUST.	9	ELECTRICAL

BLOWOFF HYDRANT	2	2	DRESSER
3" VALVES	2	2	DRESSER

**CONTRACT 44-1037**  
**OAKLAND RIDGE ELEVATED WATER TANK**  
**HOWARD COUNTY METROPOLITAN COMMISSION**  
**ELLCOTT CITY DISTRICT NO. 2**



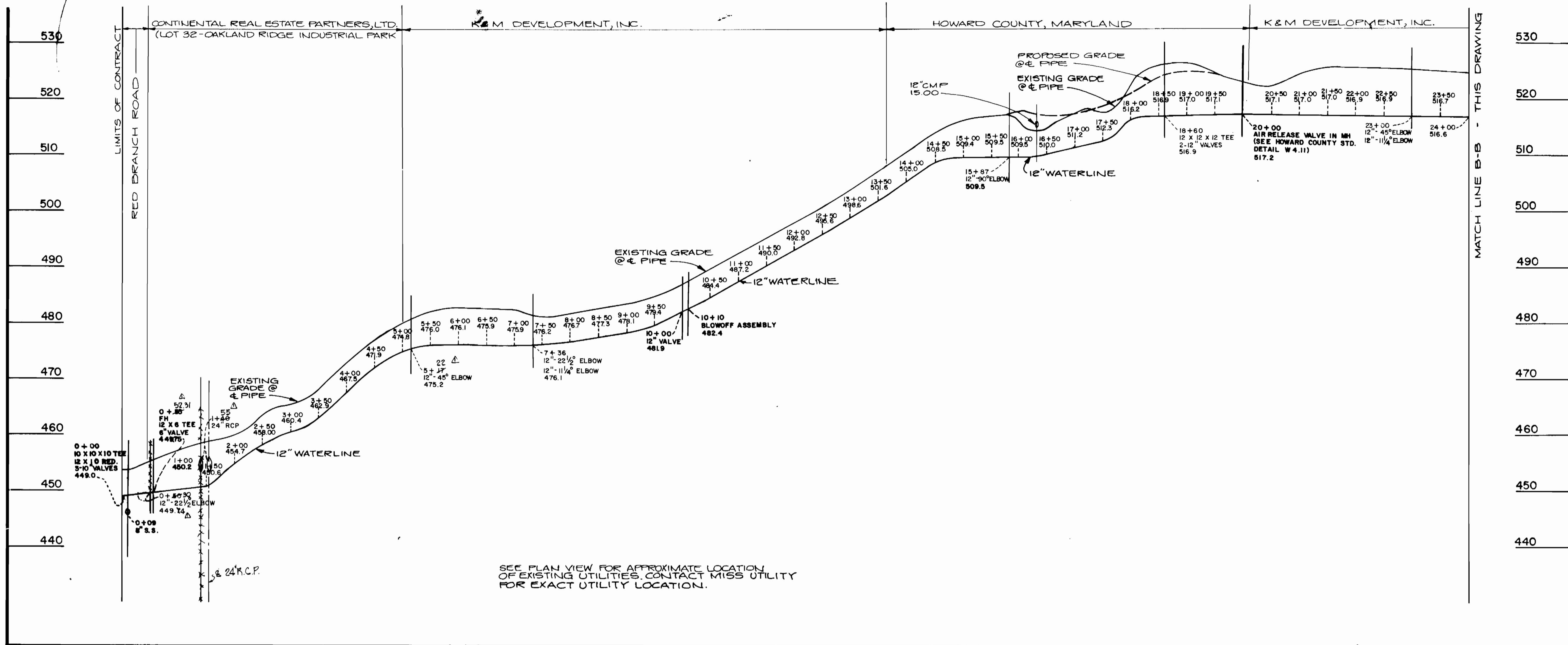
Robert M. Bevington 1-24-83 CHIEF - BUREAU OF UTILITIES - DATE	Allen J. Brown 1/24/83 CHIEF - UTILITY DIVISION - DATE	10-04-85 AS BUILT REV. NO. REV. DATE REVISION DESCRIPTION
PATTON, HARRIS, RUST & ASSOCIATES A PROFESSIONAL CORPORATION CONSULTING ENGINEERING - LAND SURVEYING - PLANNING FAIRFAX, VIRGINIA	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 1-25-83 DIRECTOR OF PUBLIC WORKS - DATE	CONTRACT NO. 44-1037 PROJECT NO. W-8098

LOCATION MAP OAKLAND RIDGE ELEVATED WATER TANK ELECTION DISTRICT - ELLCOTT CITY NO. 2	COLUMBIA DRAWING NO. 1 OF 9 SCALE 1"=600'
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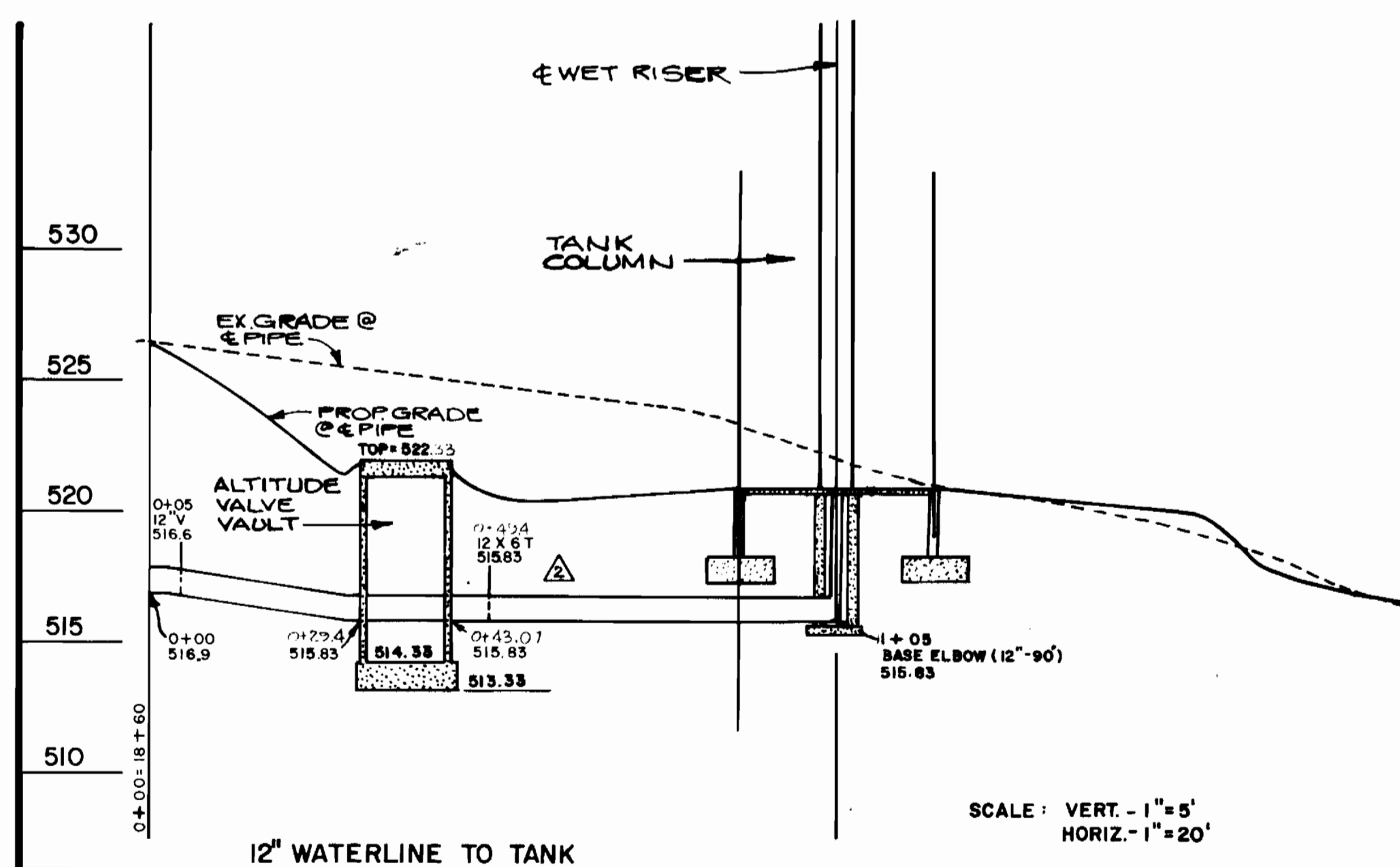
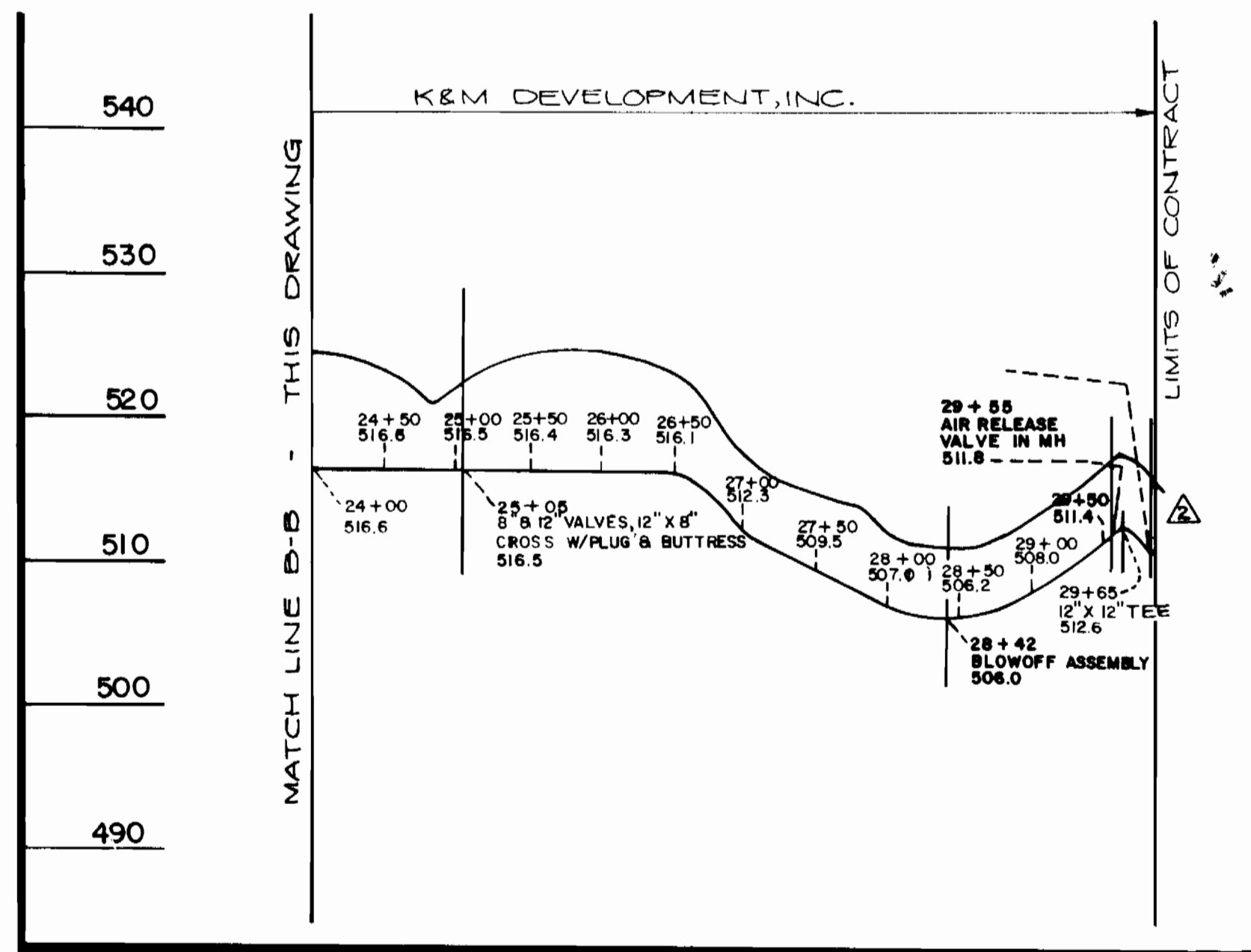
AS BUILT OCT. 04, 1985

MAY 5, 1982  
 OAKLAND RIDGE ELEVATED WATER TANK  
 CONTRACT NO. 44-1037  
 CAPITAL PROJECT W-8098





SEE PLAN VIEW FOR APPROXIMATE LOCATION OF EXISTING UTILITIES. CONTACT MISS UTILITY FOR EXACT UTILITY LOCATION.



Robert M. Bunnig 1-24-83  
 CHIEF - BUREAU OF UTILITIES - DATE

Allen S. Brown 1/24/83  
 CHIEF - UTILITY DIVISION - DATE

PATTON, HARRIS, RUST & ASSOCIATES  
 A PROFESSIONAL CORPORATION  
 CONSULTING ENGINEERING - LAND SURVEYING - PLANNING  
 FAIRFAX, VIRGINIA

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 Director of Public Works - DATE

CONTRACT NO. 44-1037  
 PROJECT NO. W-8098

PROFILE OF 12" WATERMAIN

REV. NO.	REV. DATE	REVISION DESCRIPTION
10-04-85		AS BUILT
12-30-84		REVISED BY D.P.W. AS PER REV. PRINTS SUPPLIED BY ENG.

COLUMBIA  
 OAKLAND RIDGE ELEVATED WATER TANK  
 ELECTION DISTRICT - ELLICOTT CITY NO. 2

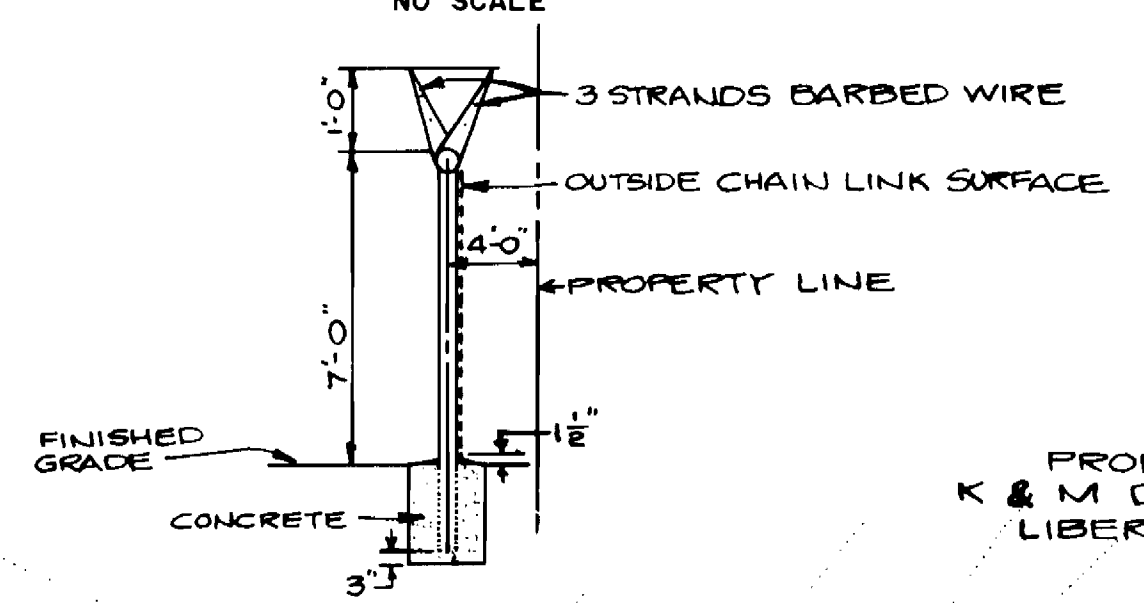
DRAWING NO. 3 OF 9  
 SCALE H: 1"=100' V: 1"=10'



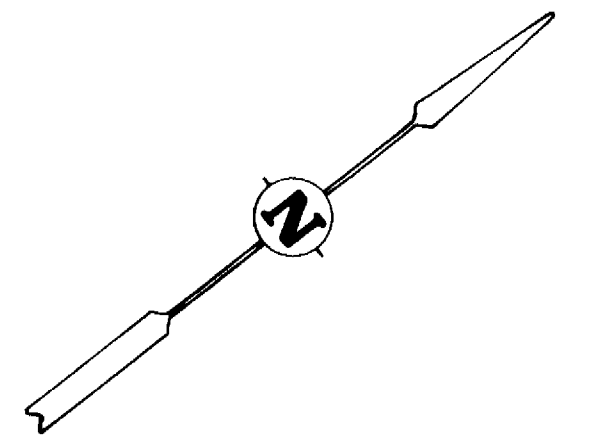
AS BUILT OCT. 04, 1985

MAY 5, 1982  
 OAKLAND RIDGE ELEVATED WATER TANK  
 CONTRACT NO. 44-1037  
 CAPITAL PROJECT W-8098

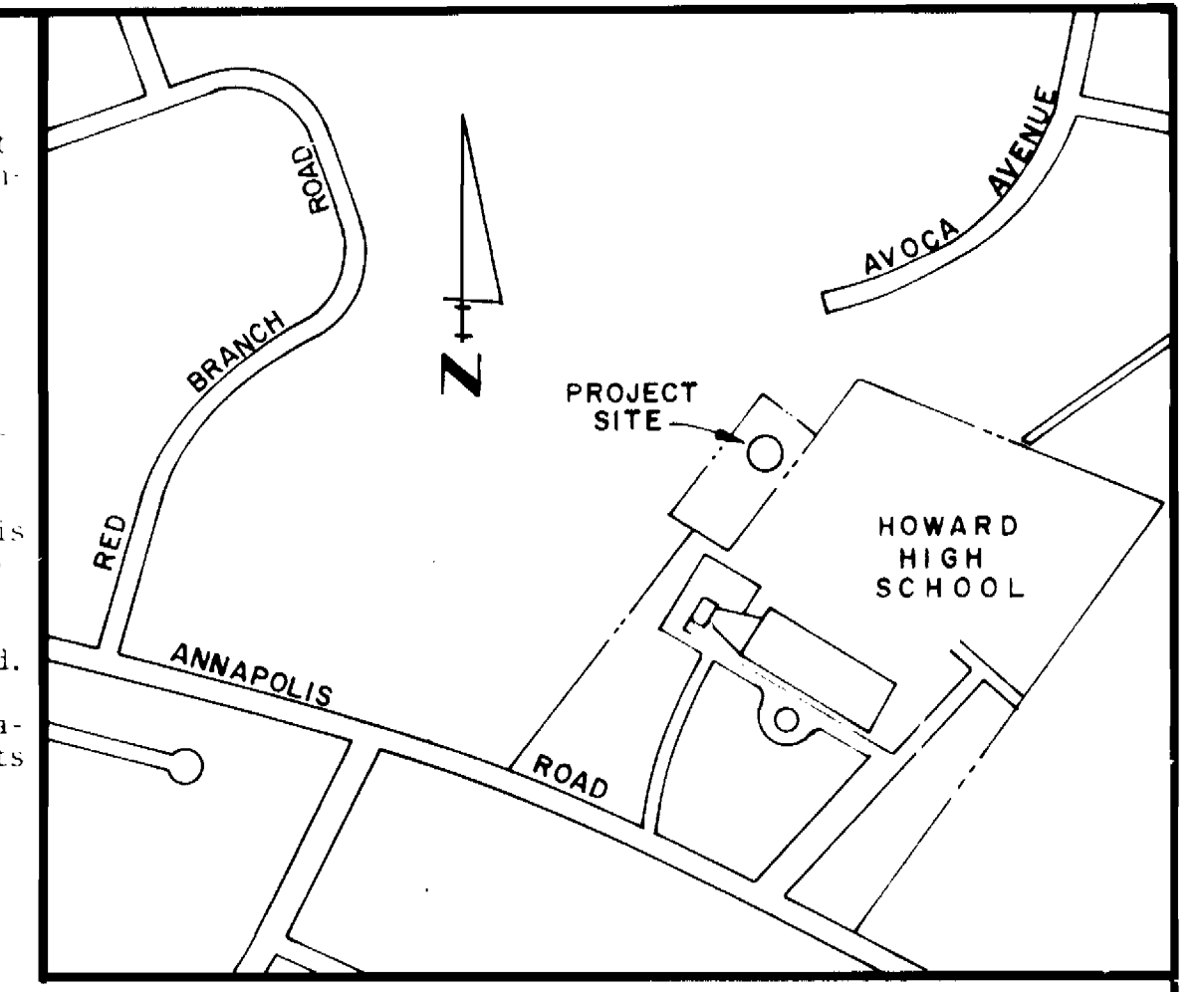
**FENCE DETAIL**  
NO SCALE



APPROVED  
DIVISION OF LAND DEVELOPMENT  
ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE: 1-19-83  
JMM



- CONSTRUCTION SEQUENCE
1. Begin the initial clearing and grading operations. The sediment control devices should now begin to be installed, and should continue to be installed during and until the clearing and grading operations are complete.
  2. Begin waterline installation, utilities installation, altitude valve vault and tank construction only after all sediment control devices are installed.
  3. Intermediate and final grading will take place as waterline construction is completed.
  4. Begin access driveway construction when waterline construction is completed.
  5. Seeding, sodding and landscaping operations shall take place as construction proceeds and final grading operations are completed.
  6. Maintain sediment control devices intact until final restoration and restoration have been achieved or until Engineer directs them to be removed.



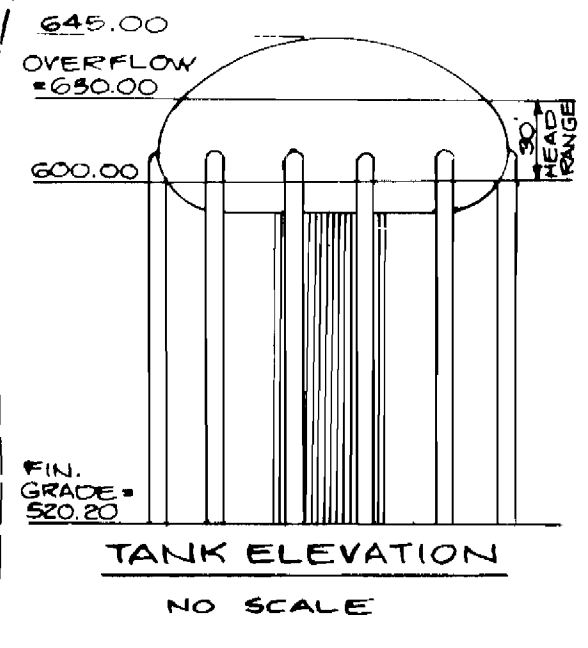
LOCATION PLAN  
SCALE: 1" = 600'

**SITE ANALYSIS**

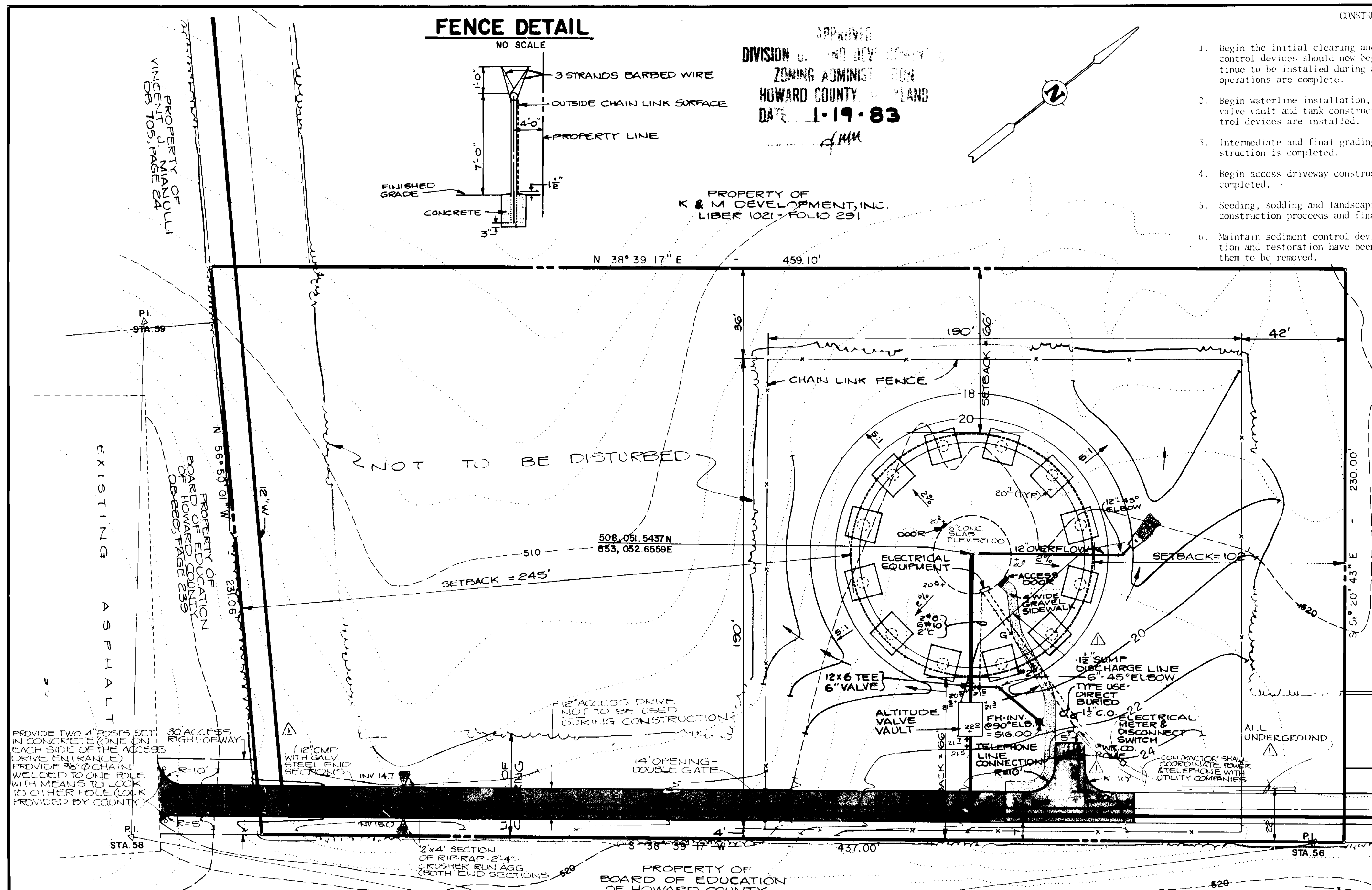
AREA OF SITE	2.3657 Acres
NUMBER OF EMPLOYEES	0
PARKING REQUIRED	0
PARKING PROVIDED	2
AREA TO BE GRADED	1.31 Acres
AREA TO BE ROOFED	0.170 Acres
AREA TO BE PAVED	0.103 Acres
AREA TO BE SEEDED	1.10 Acres
AREA TO BE UNDISTURBED	1.06 Acres
ZONED	R-20
TAX MAP NUMBER	30

HOWARD COUNTY, MARYLAND  
OWNER AND DEVELOPER  
LIBER 1021 FOLIO 291

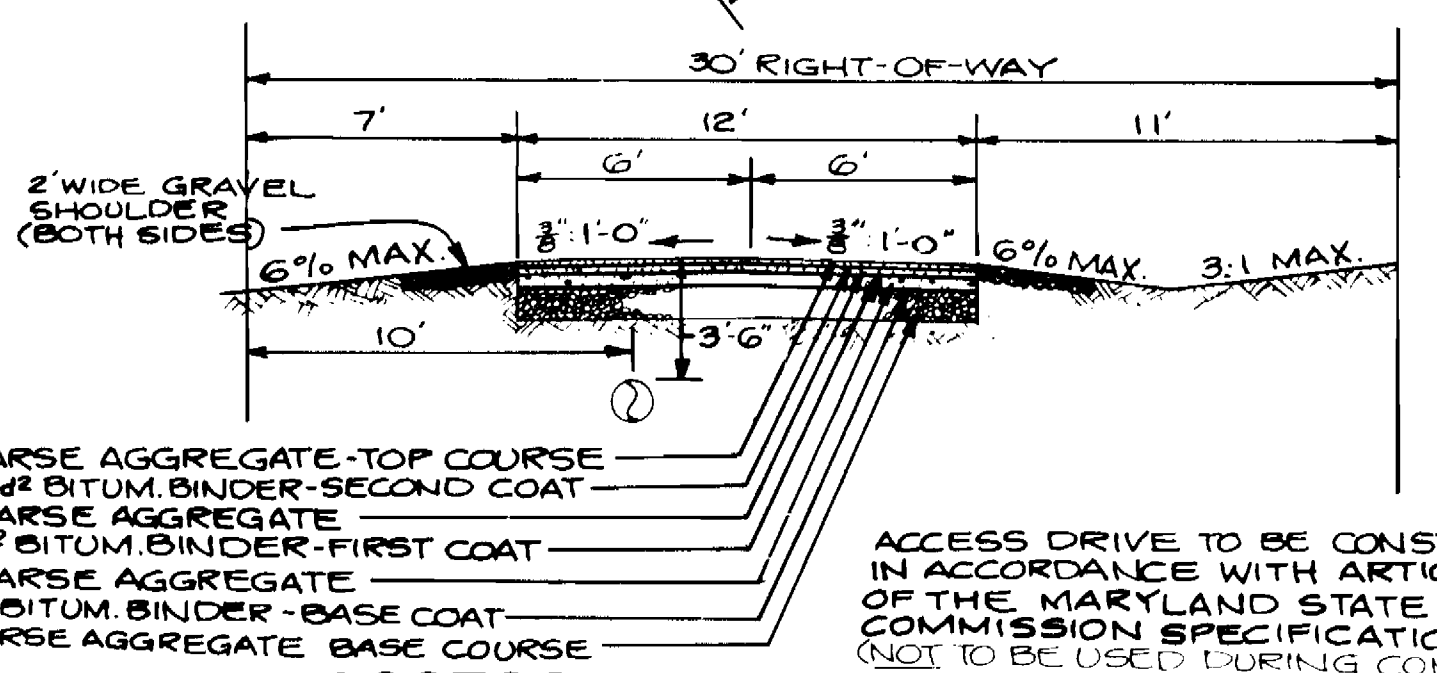
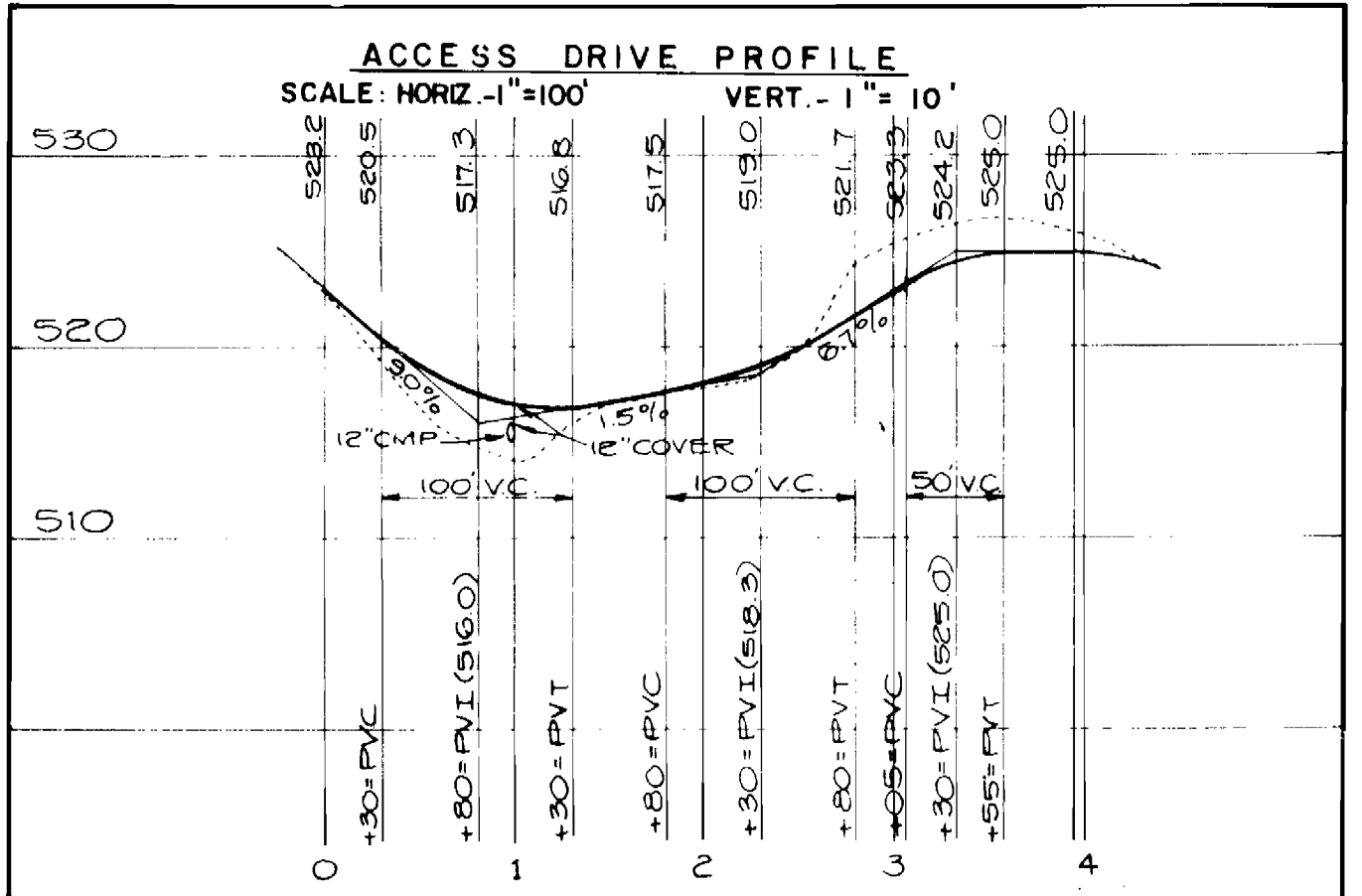
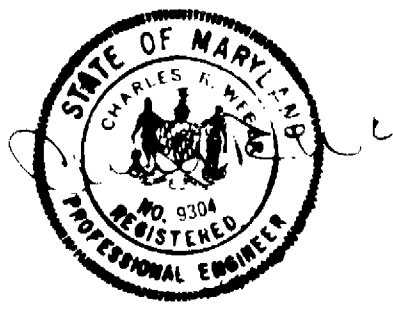
1982 LEGISLATIVE SESSION #12  
COUNTY RESOLUTION #153  
PART OF PARCEL 260



TANK ELEVATION  
NO SCALE



**SITE PLAN**  
SCALE: 1" = 25'



**ACCESS DRIVE SECTION**  
NO SCALE

APPROVED FOR PUBLIC WATER SYSTEM  
HOWARD COUNTY HEALTH DEPARTMENT  
DATE: 1-27-83  
DATE: 1-27-83

APPROVED FOR PUBLIC WATER  
DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
DATE: 1-25-83  
DATE: 1-31-83

REV. NO.	10-04-85	AS BUILT
REV. DATE		REVISION DESCRIPTION

PATTON, HARRIS, RUST & ASSOCIATES  
A PROFESSIONAL CORPORATION  
CONSULTING ENGINEERING LAND SURVEYING PLANNING  
FAIRFAX, VIRGINIA

CONTRACT NO. 44-1037  
PROJECT NO. W-8098

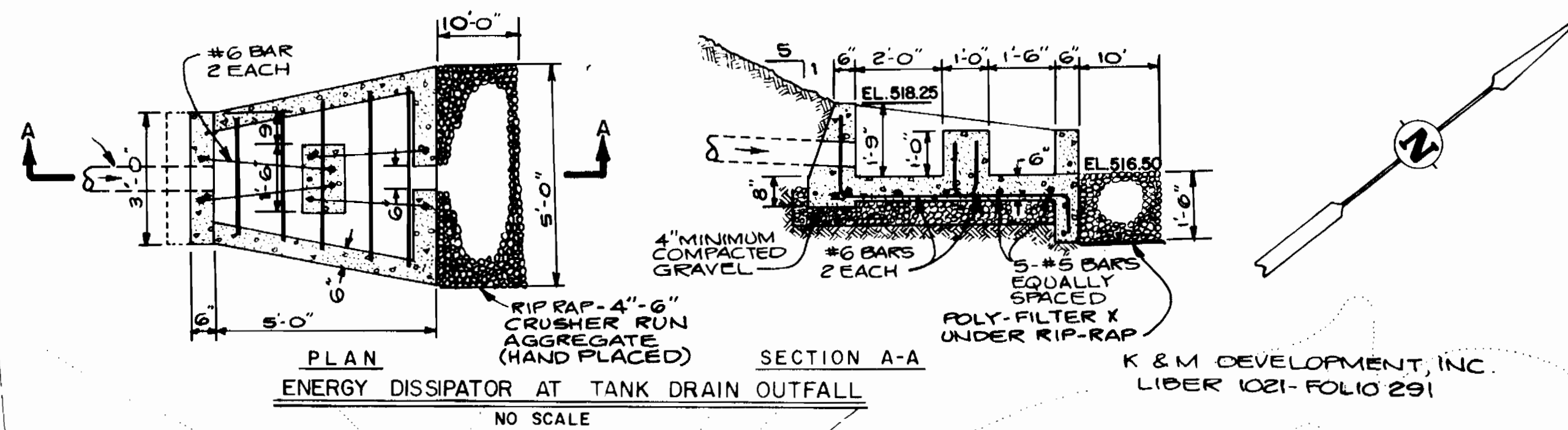
SITE AND GRADING PLAN  
COLUMBIA  
OAKLAND RIDGE ELEVATED WATER TANK  
ELECTION DISTRICT - ELLICOTT CITY NO. 2

DRAWING NO. 4 OF 9  
SCALE AS SHOWN

MAY 5, 1982  
OAKLAND RIDGE ELEVATED WATER TANK  
CONTRACT NO. 44-1037  
CAPITAL PROJECT W-8098  
SOP-83-82

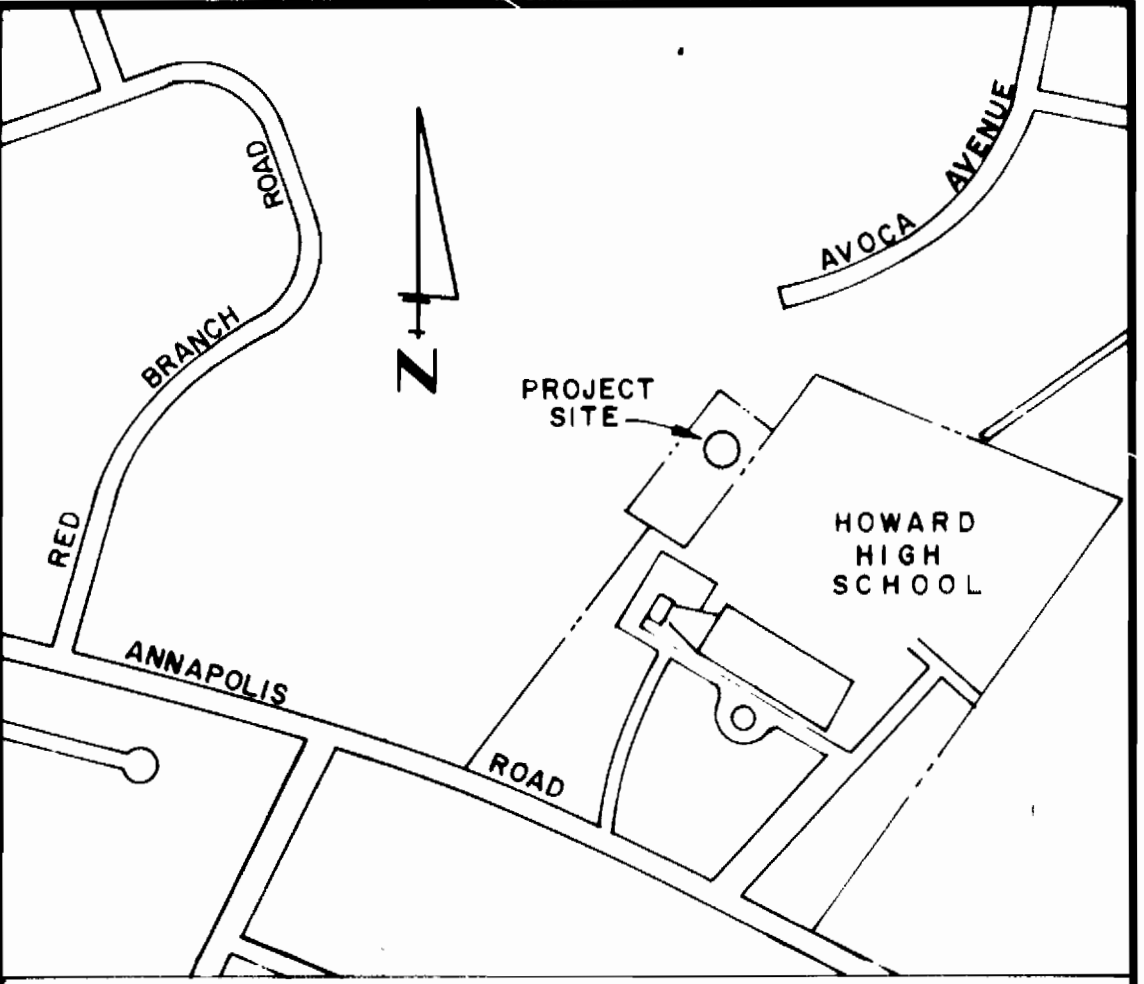
AS BUILT OCT. 04, 1985

PROPERTY OF VINCENT J. MANIULLI DB 7051, PAGE 24

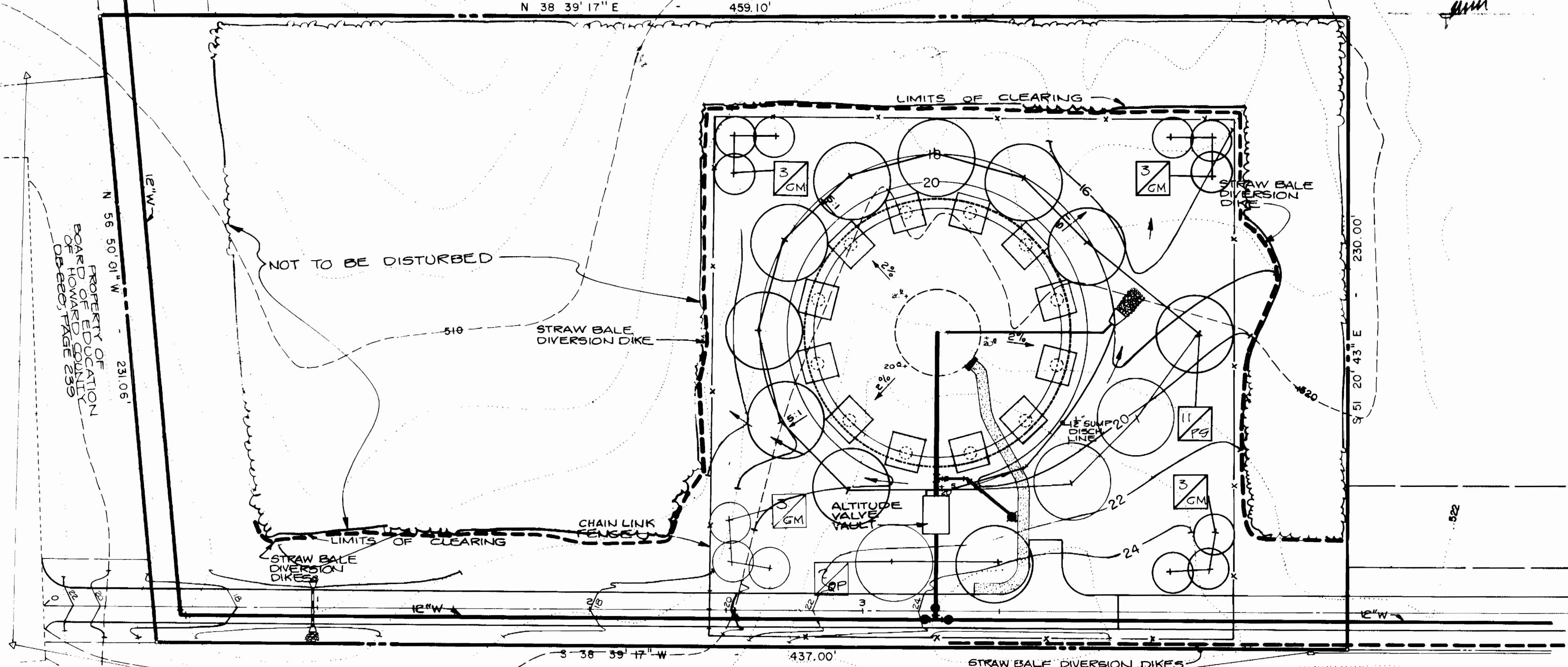


NOTE: SEDIMENT CONTROL TO BE PERFORMED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND SHALL FOLLOW THE REQUIREMENTS SET FORTH IN ARTICLE 15 OF VOLUME IX OF THE HOWARD COUNTY CONSTRUCTION DESIGN MANUAL. SEE SHEET 2 OF 9 FOR SEDIMENT CONTROL DEVICES ALONG ACCESS DRIVE AND WATERLINE. SEE SHEET 4 OF 9 FOR LOCATION OF STABILIZED CONSTRUCTION ENTRANCE.

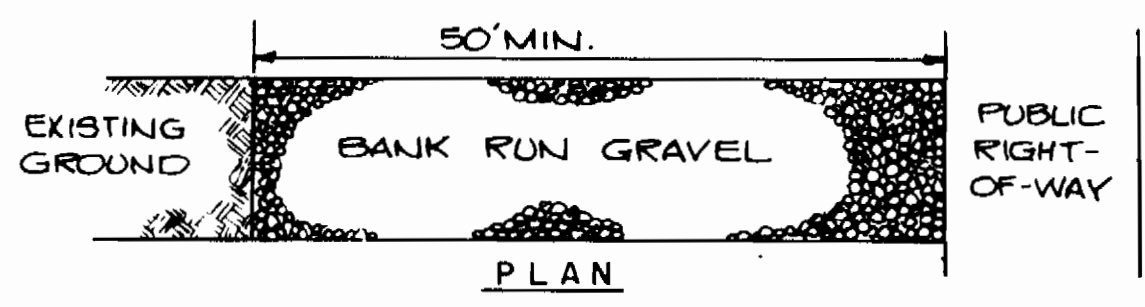
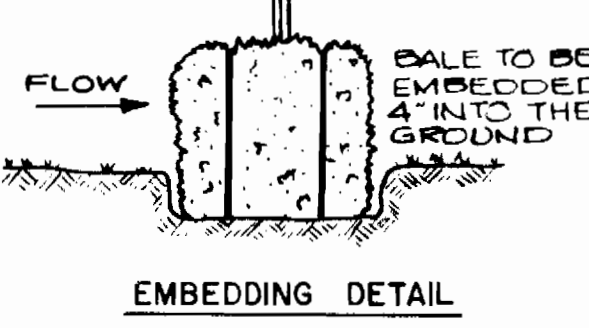
APPROVED  
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
HOWARD COUNTY MARYLAND  
DATE 1-19-83



EXISTING ASPHALT

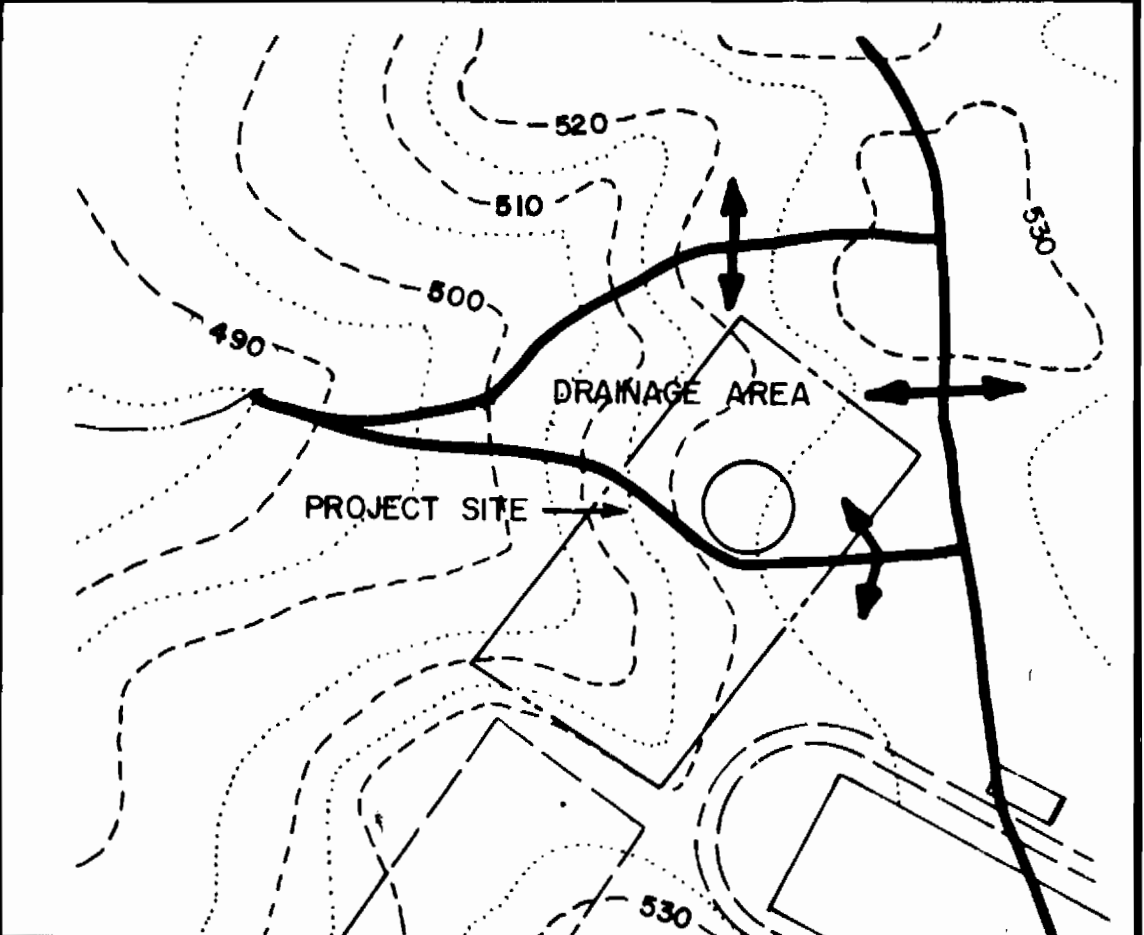
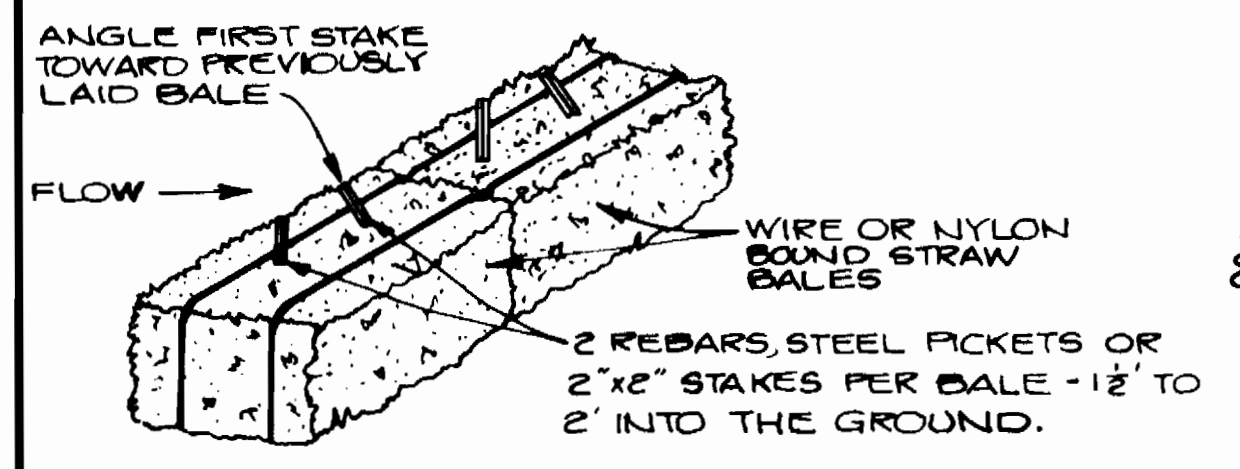
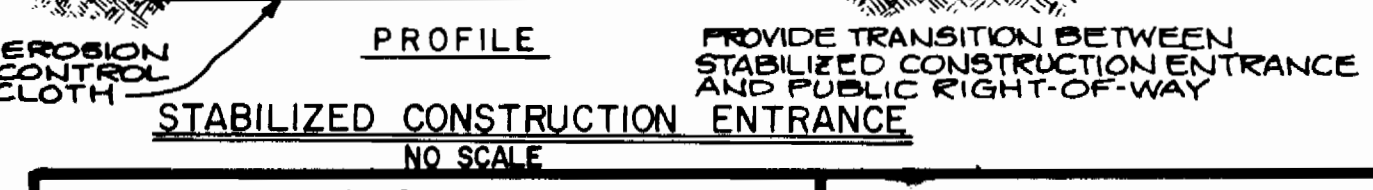


1. The developer shall notify the How. Co. Office of Inspections and Permits at least 24 hours prior to beginning any construction (How. Co. Ord. 092-2433, Ext. 365).
2. Dikes, sediment traps, etc., to be constructed prior to any on-site grading or disturbance to any existing surface material, and are to be stabilized as soon as constructed.
3. All sheet structures to remain in place until permission for their removal has been obtained from the How. Co. Office of Inspections and Permits (092-2433, Ext. 365).
4. All graded areas shall be stabilized by seeding and mulching in accordance with the following:
- A. Site Preparation:
    - o Harrow or disc in areas proposed to be seeded with the following materials at the specified rate, to a depth of 3"
    - Pulverized limestone at 1-1/2 tons/acre
    - Commercial fertilizer 10-10-10 at 3 tons/acre
    - Super phosphate of 600 lbs./acre
  - B. Seeding:
    - o Sow the following seed mixture at the rate of 200 lbs./acre with a mechanical spreader
    - Temporary: Italian or Perennial Ryegrass
    - Permanent: 40% Marion Blue Grass, 40% South Dakota Blue Grass & 20% Penn lawn Creeping Red Fescue
    - o The seeded area shall then be raked with a York Rake (minimum of 2 passes), covered and compacted with cultipacker or other approved method.
  - C. Mulching:
    - o Seeded areas shall be uniformly mulched immediately after seeding with unweathered small grain straw at the rate of 1-1/2 to 2 tons/acre.
    - o Tie-mulch sown with liquid asphalt at 0.1 gal./sq. yd. or emulsified asphalt at 0.04 gal./sq. yd. on mulch netting.
5. Access Road shall be gravel-surfaced immediately after grading to prevent soil erosion.
6. All areas disturbed by grading shall be seeded and mulched with temporary seed mixture.



**LANDSCAPE AND SEDIMENT CONTROL PLAN**  
SCALE: 1" = 25'

KEY QTY.	BOTANICAL NAME	COMMON NAME	SIZE	COND.	SPEC.
GM 12	CORNUS MAS	CORNELIAN CHERRY	5-6	B x B	FULL
PG 11	PINUS STROBUS	DOGWOOD	6-8	B x B	FULL
QT 2	QUERCUS PHELLOS	WILLOW OAK	2 1/2 - 3 cal	B x B	FULL



HOWARD SOIL CONSERVATION DISTRICT  
REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS  
Signature: [Signature] DATE: 1-28-83

DEVELOPER  
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.  
Signature: [Signature] DATE: 1-28-83

PROFESSIONAL ENGINEER  
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE HOWARD SOIL CONSERVATION DISTRICT.  
Signature: [Signature] MD REG. NO. 9804 DATE: 5-06-82

APPROVED FOR PUBLIC WATER SYSTEM  
HOWARD COUNTY HEALTH DEPARTMENT  
Signature: [Signature] DATE: 1-27-83  
APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
Signature: [Signature] DATE: 2-1-83  
Signature: [Signature] DATE: 1-31-83

PATTON, HARRIS, RUST & ASSOCIATES  
A PROFESSIONAL CORPORATION  
CONSULTING ENGINEERING — LAND SURVEYING — PLANNING  
FAIRFAX, VIRGINIA

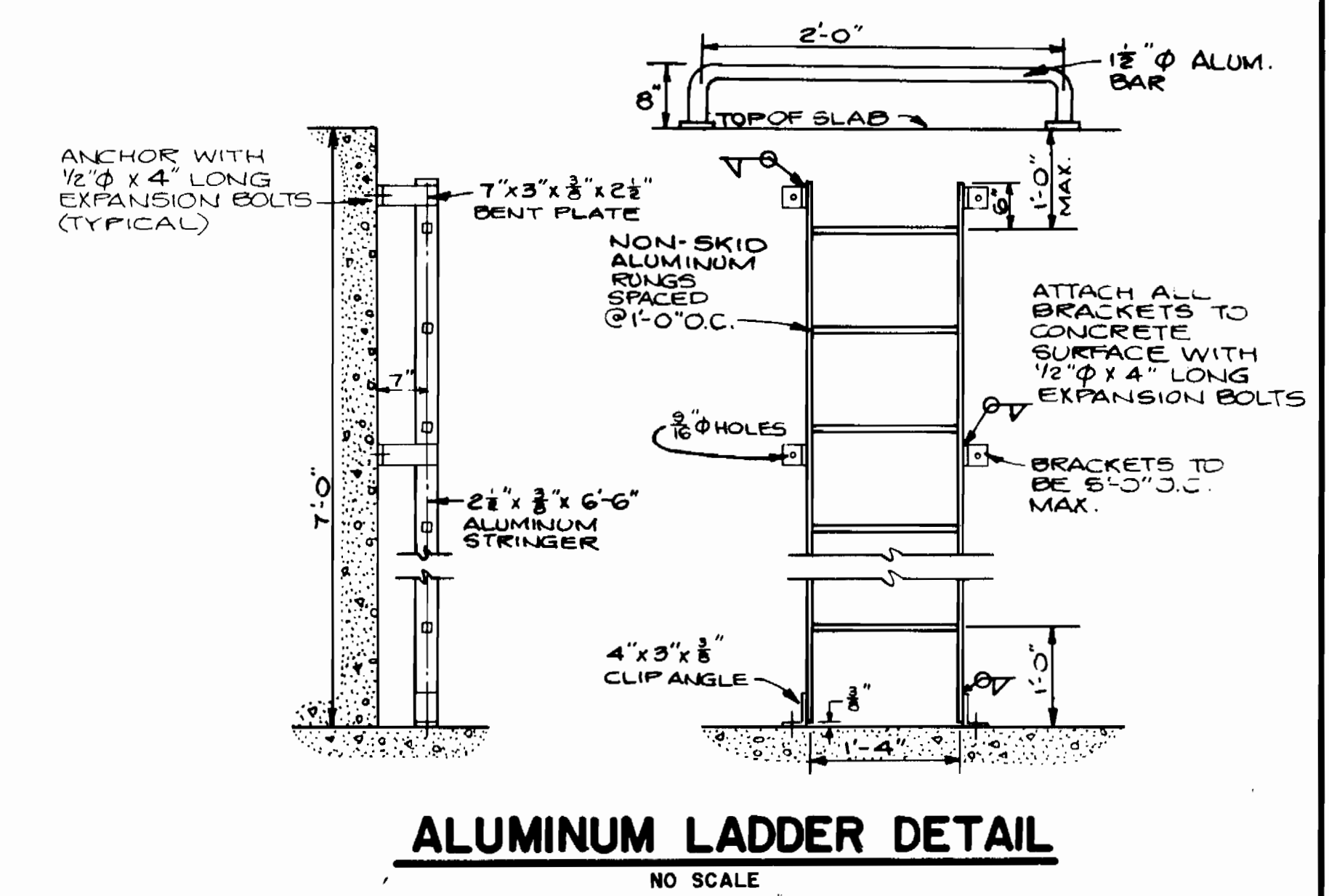
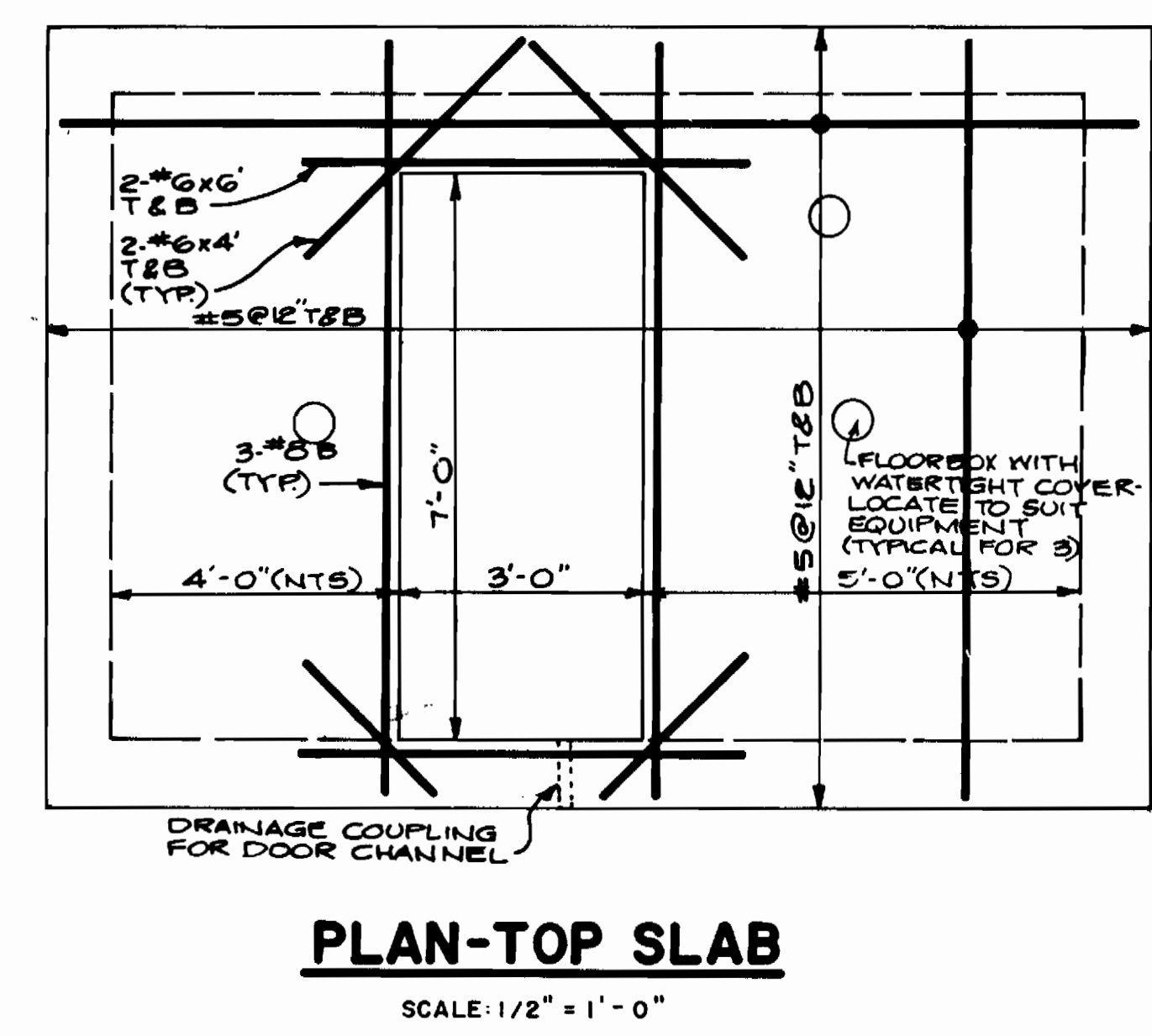
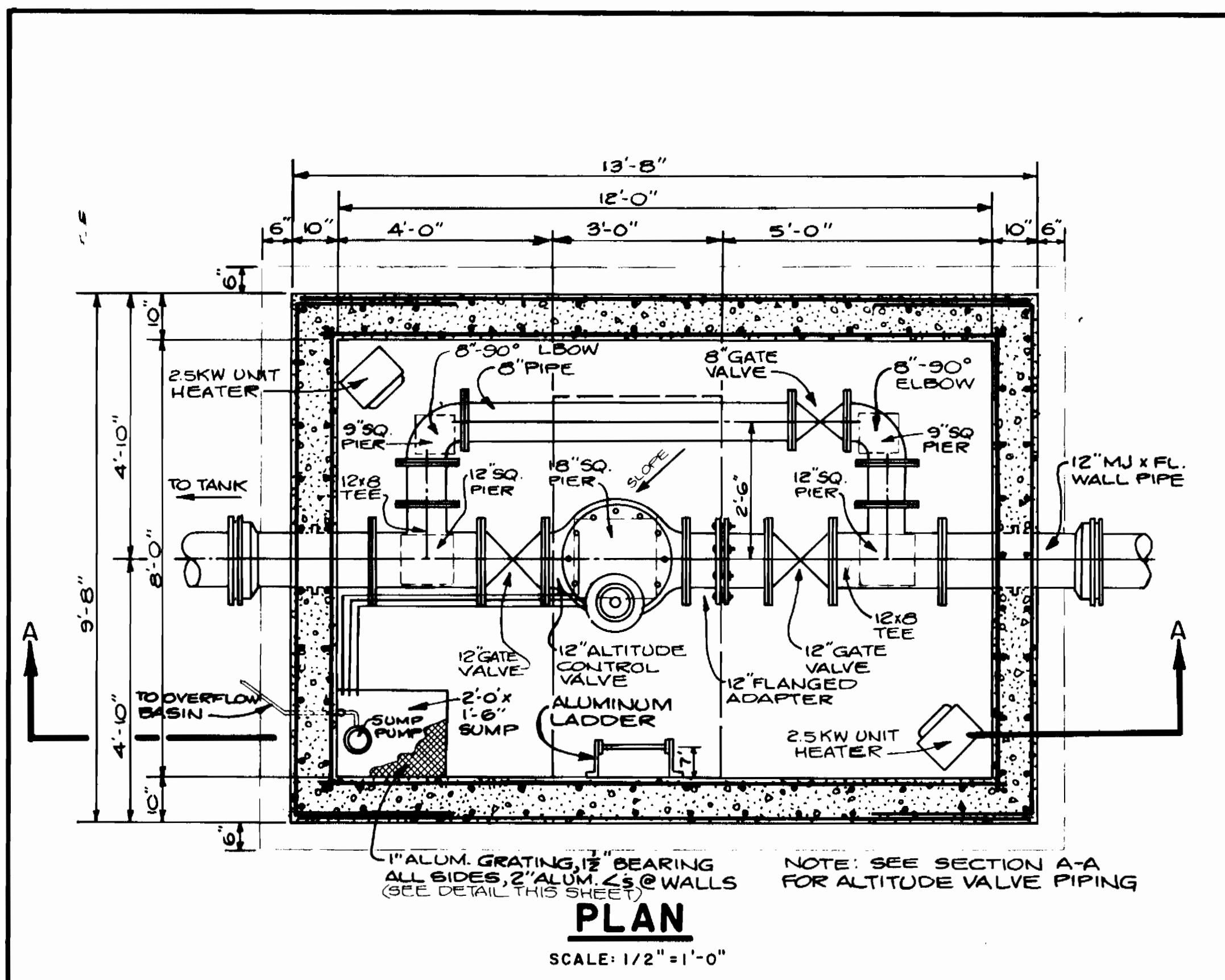
APPROVED FOR PUBLIC WATER  
DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
Signature: [Signature] DATE: 1-27-83  
Signature: [Signature] DATE: 1-28-83

CONTRACT NO. 44-1037  
PROJECT NO. W-8098

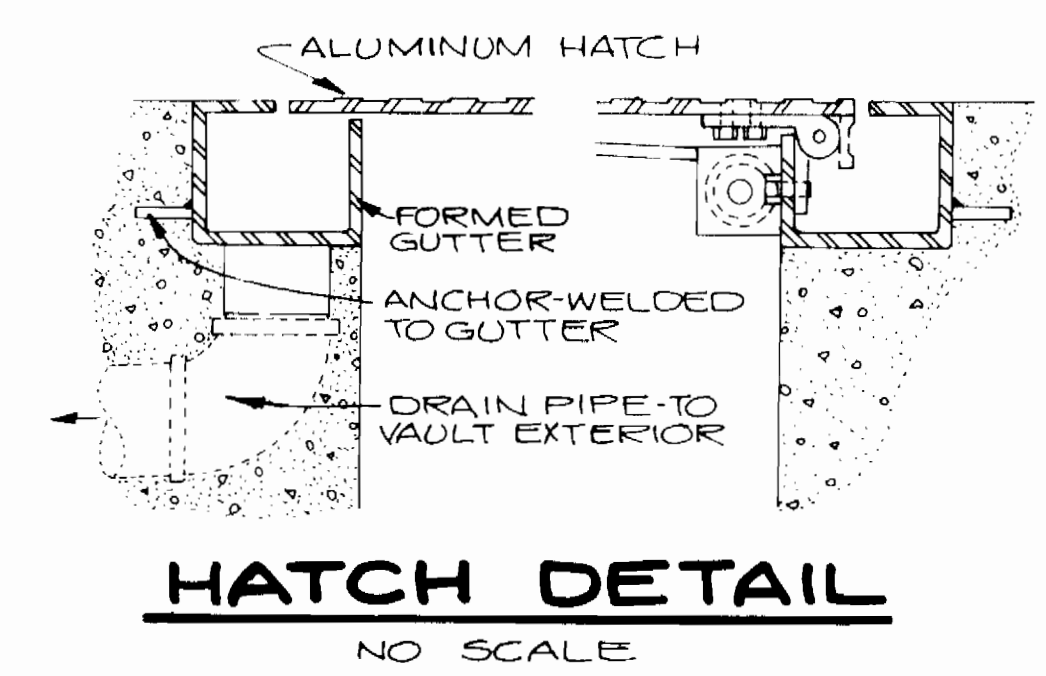
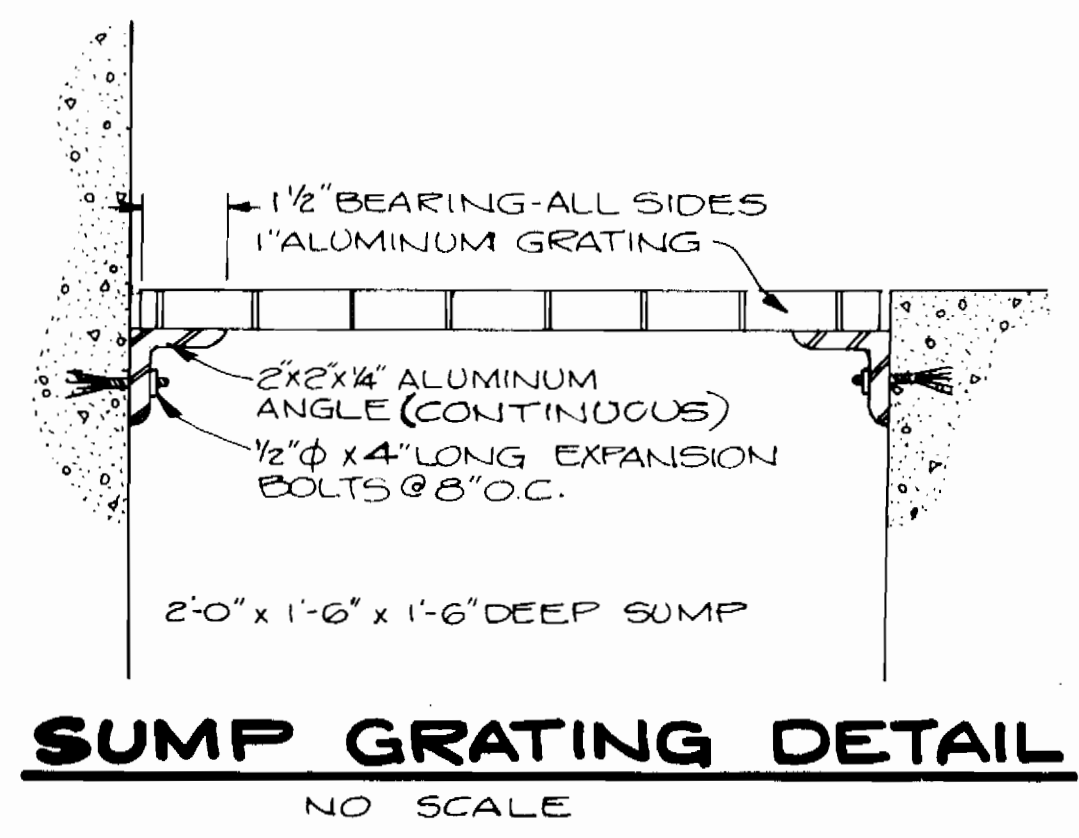
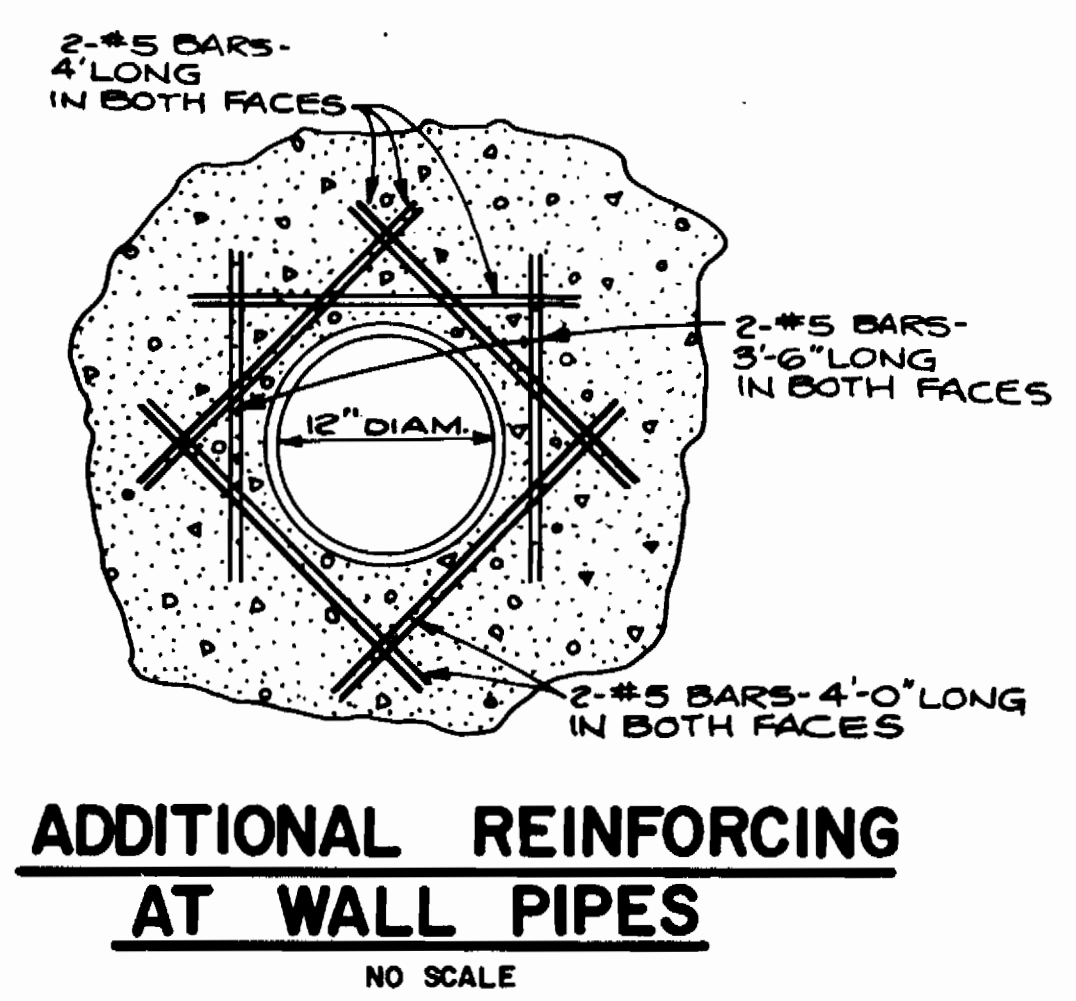
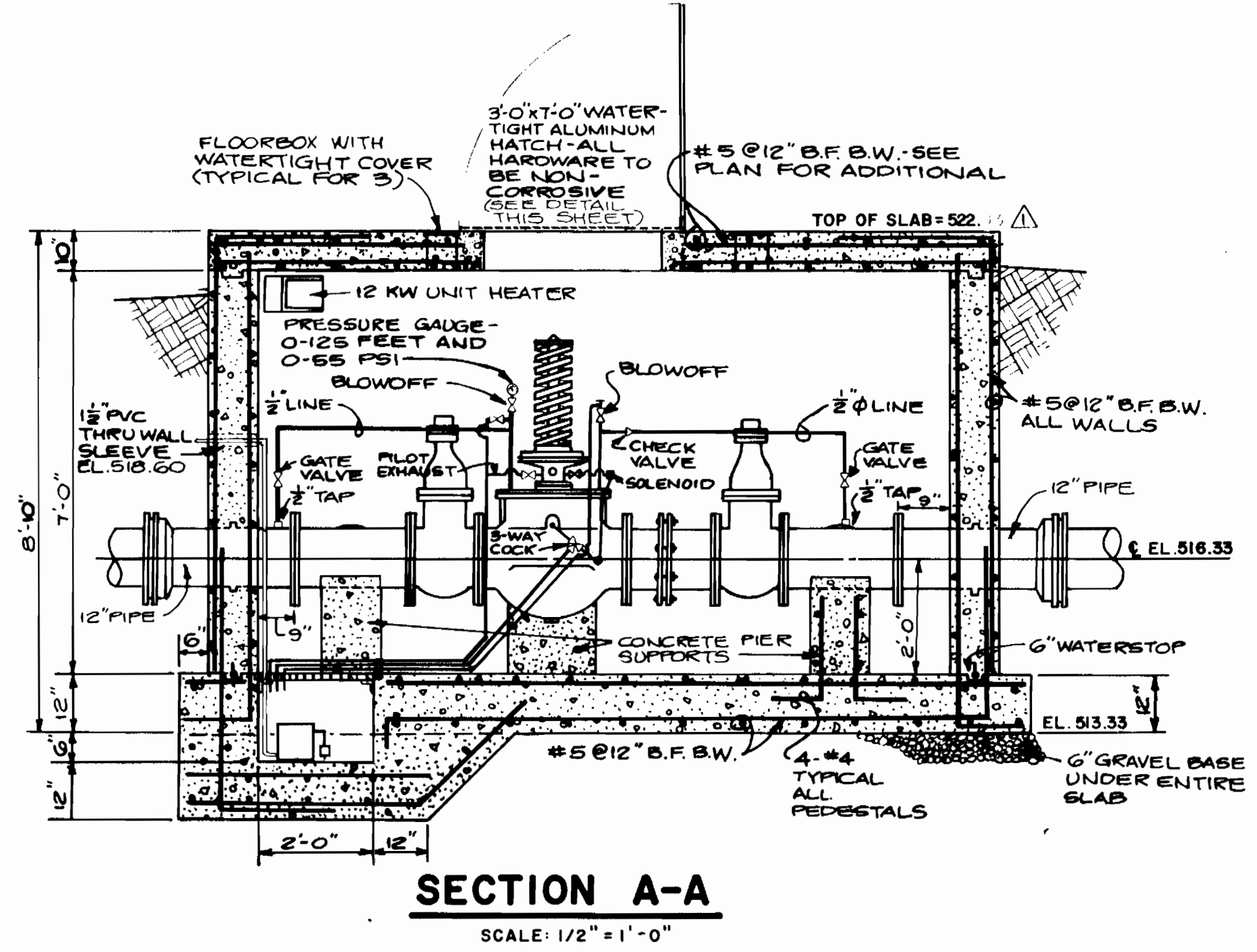
LANDSCAPE AND SEDIMENT CONTROL PLAN

COLUMBIA  
OAKLAND RIDGE ELEVATED WATER TANK  
ELECTION DISTRICT — ELLICOTT CITY NO. 2

DRAWING NO. 5 OF 9  
SCALE AS SHOWN



- NOTES**
1. RUN ALL ALTITUDE VALVE DRAINAGE AND EXHAUST PIPING TO SUMP.
  2. ALL PIPING LOCATIONS, MATERIALS, SIZING AND VALVING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
  3. RUN HATCH DRAINAGE CHANNEL TO VAULT EXTERIOR.
  4. ALL ELECTRICAL INFORMATION IS SHOWN ON SHEET 7 OF 9.
  5. SLOPE BOTTOM SLAB OF VAULT TO SUMP.
  6. DESIGN STRENGTHS SHALL BE 4000 PSI FOR CONCRETE AND 60,000 PSI FOR REINFORCING STEEL.
  7. COVERAGE SHALL BE 3" FOR REBARS IN BOTTOM SLAB, 2" FOR ALL OTHER STEEL.
  8. PROVIDE 1" CHAMFER AT EXPOSED CONCRETE EDGES.
  9. DO NOT BACKFILL STRUCTURE UNTIL TOP SLAB IS IN PLACE.
  10. BITUMINOUS COAT ALL ALUMINUM EXPOSED TO CONCRETE.
  11. BITUMINOUS COAT ALL CONCRETE WALLS BELOW GRADE.
  12. INTERIOR VALVES AND PIPING TO RECEIVE PROTECTIVE COATING EQUIVALENT TO SYSTEM SPECIFIED IN ARTICLE 42.00 OF THE SPECIFICATIONS.



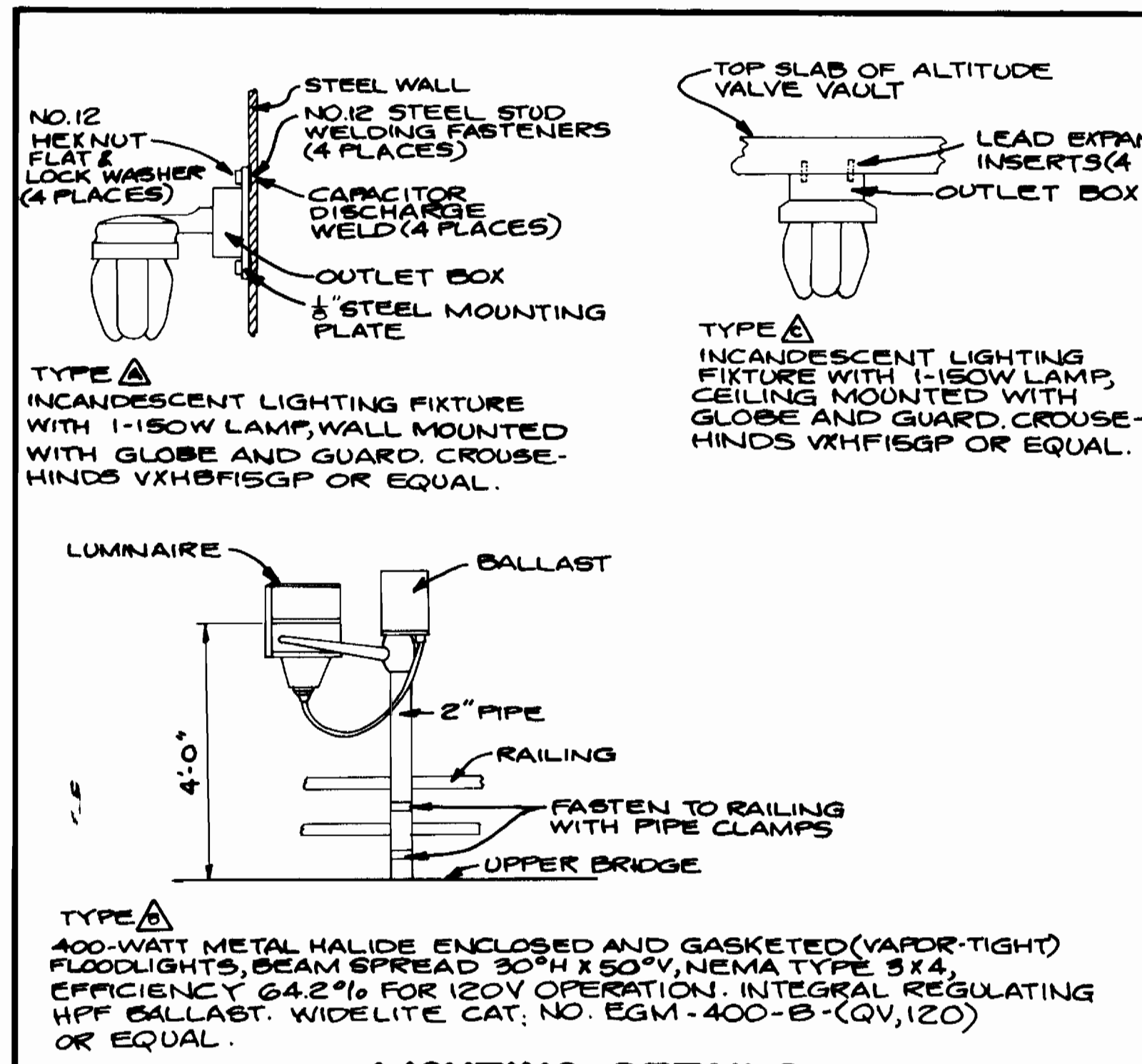
Robert M. Brown 1/24/83	Allen L. Brown 1/24/83	10-04-85	AS BUILT
CHIEF - BUREAU OF UTILITIES - DATE	CHIEF - UTILITY DIVISION - DATE	REV. NO.	REVISION DESCRIPTION

PATTON, HARRIS, RUST & ASSOCIATES A PROFESSIONAL CORPORATION CONSULTING ENGINEERING - LAND SURVEYING - PLANNING FAIRFAX, VIRGINIA	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 1-25-83	CONTRACT NO. 44-1037	ALTITUDE VALVE VAULT	COLUMBIA OAKLAND RIDGE ELEVATED WATER TANK ELECTION DISTRICT - ELLICOTT CITY NO. 2	DRAWING NO. 6 OF 9	SCALE AS SHOWN
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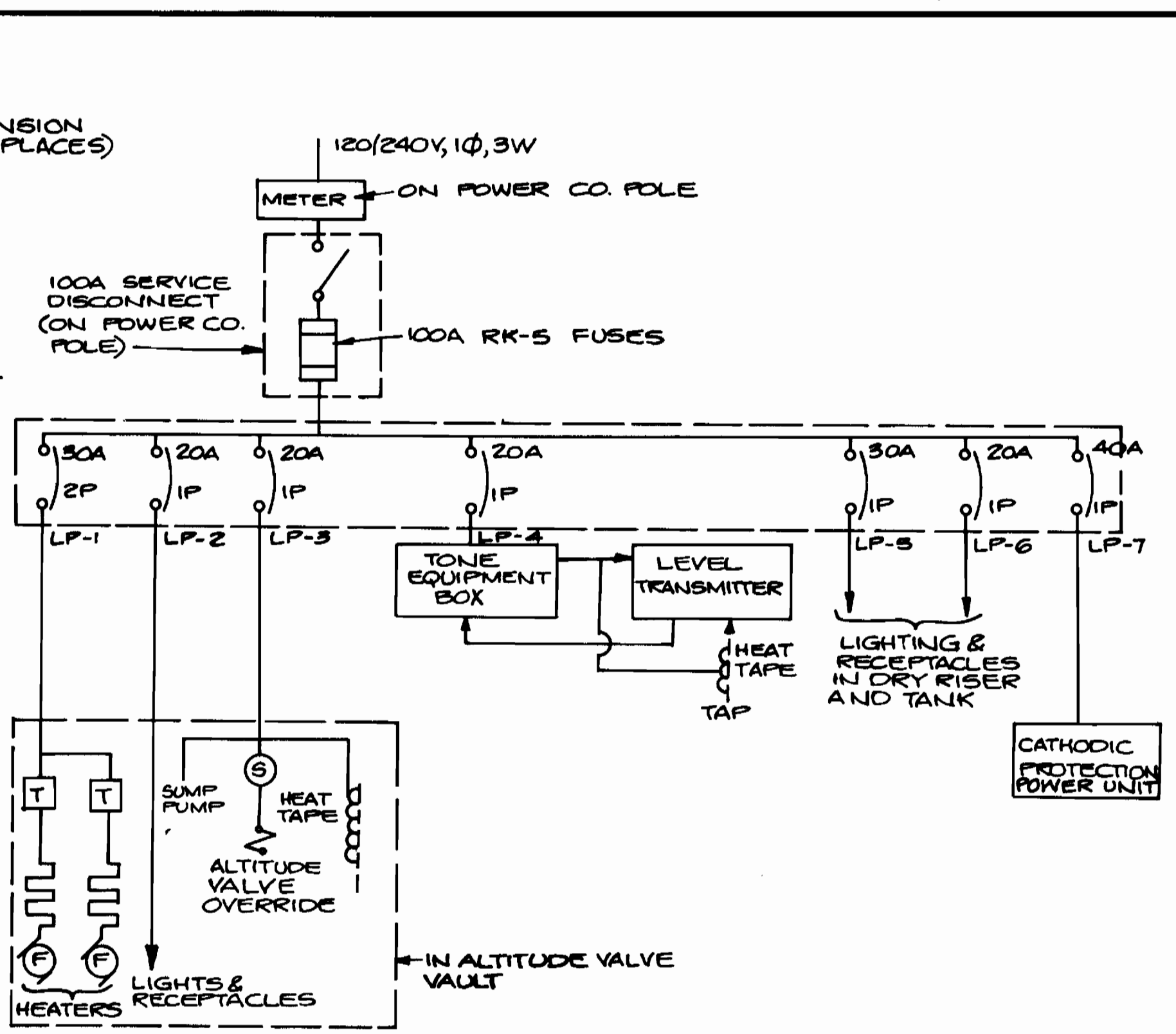
AS BUILT OCT. 04, 1985

OAKLAND RIDGE ELEVATED WATER TANK  
CONTRACT NO. 44-1037  
CAPITAL PROJECT W-8098

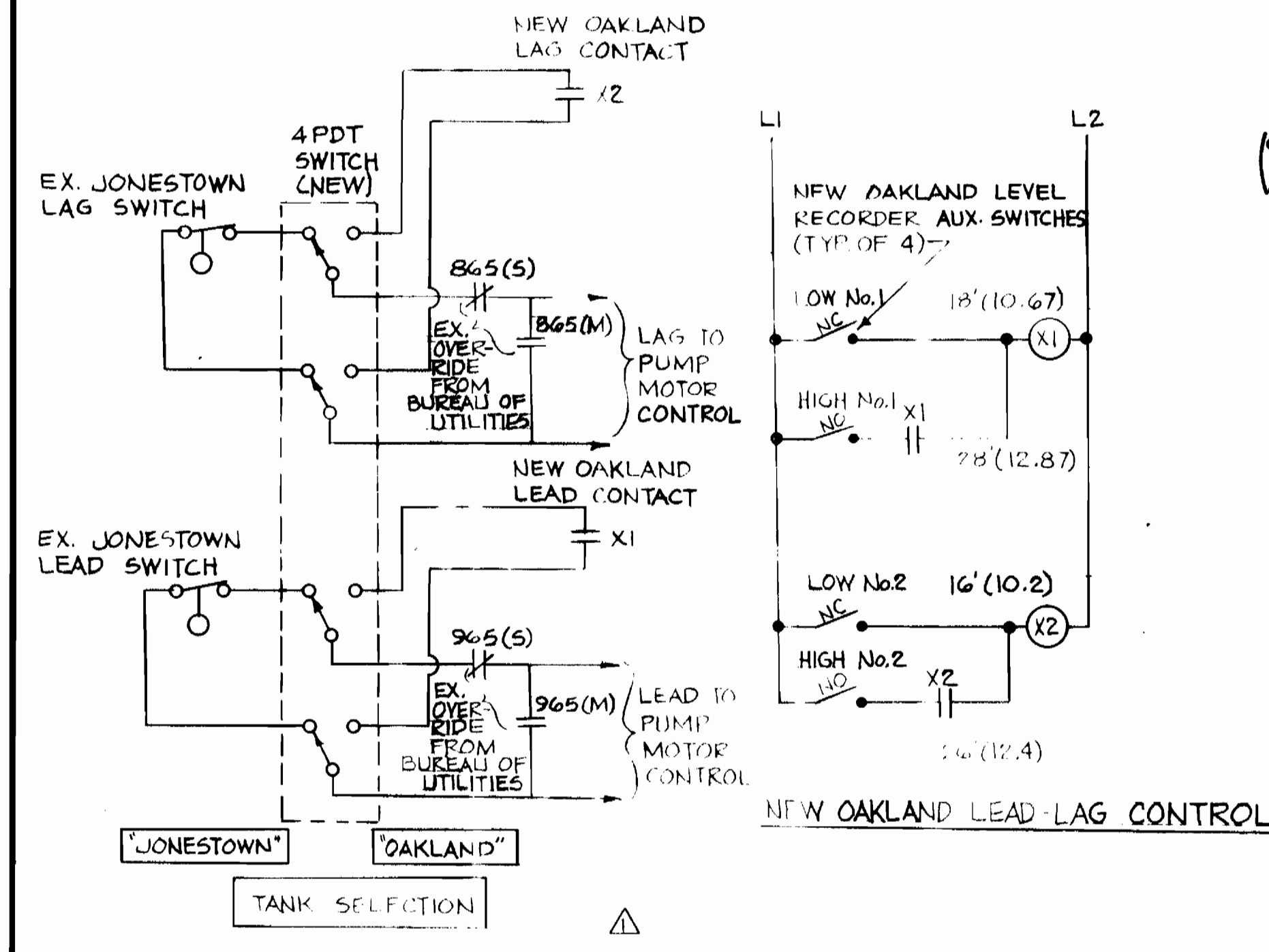




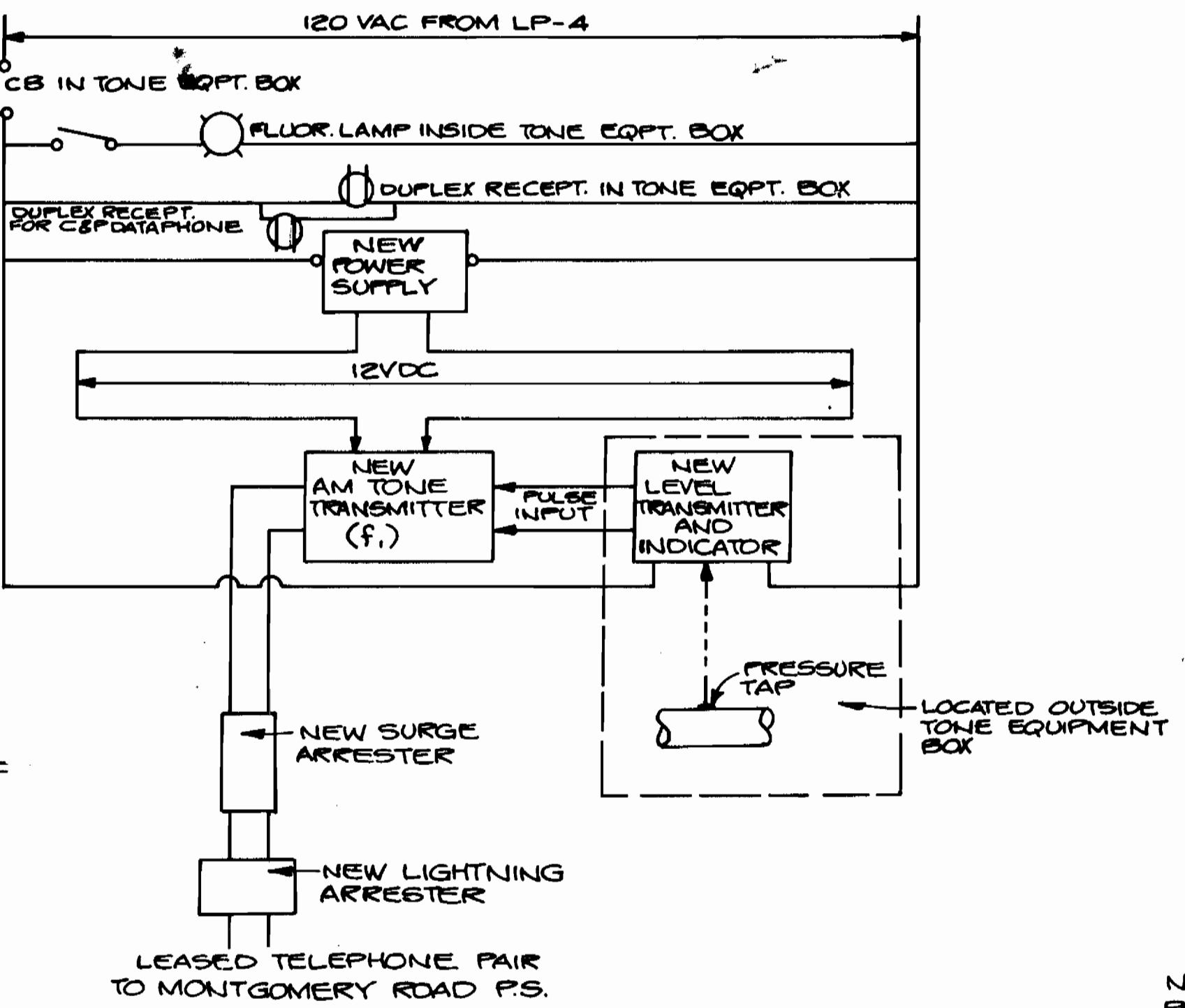
**LIGHTING DETAILS**  
NO SCALE



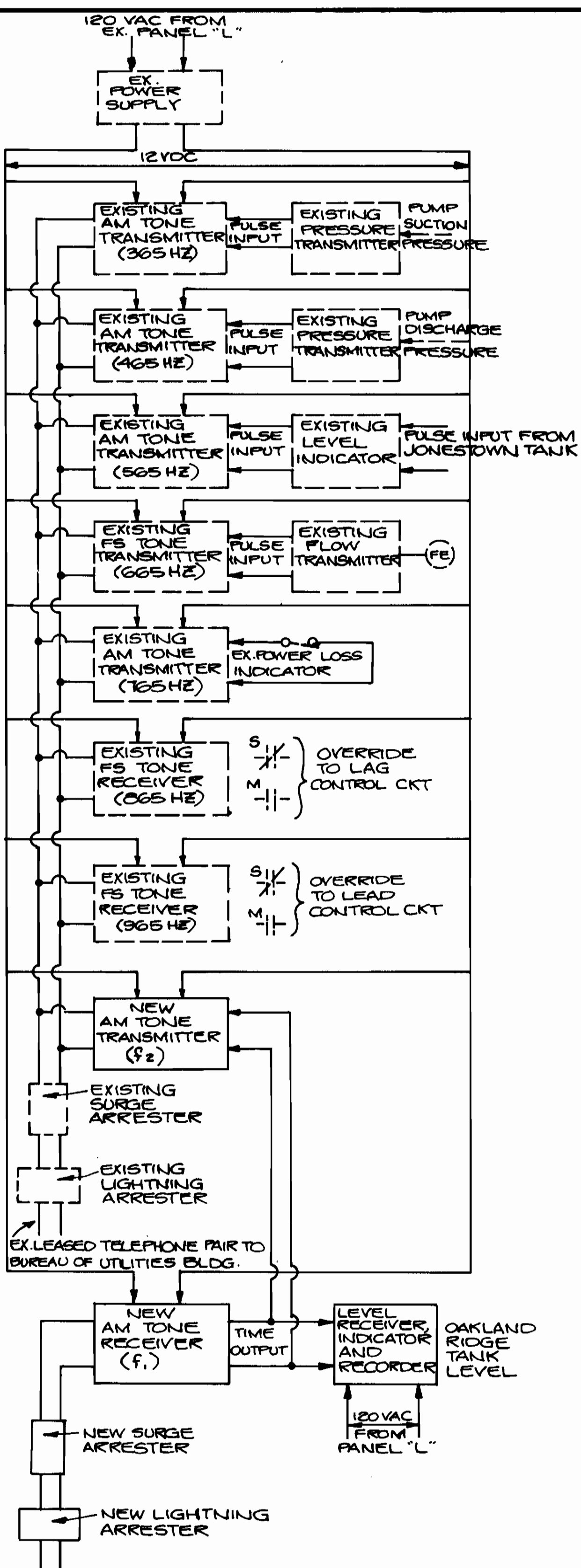
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NO SCALE



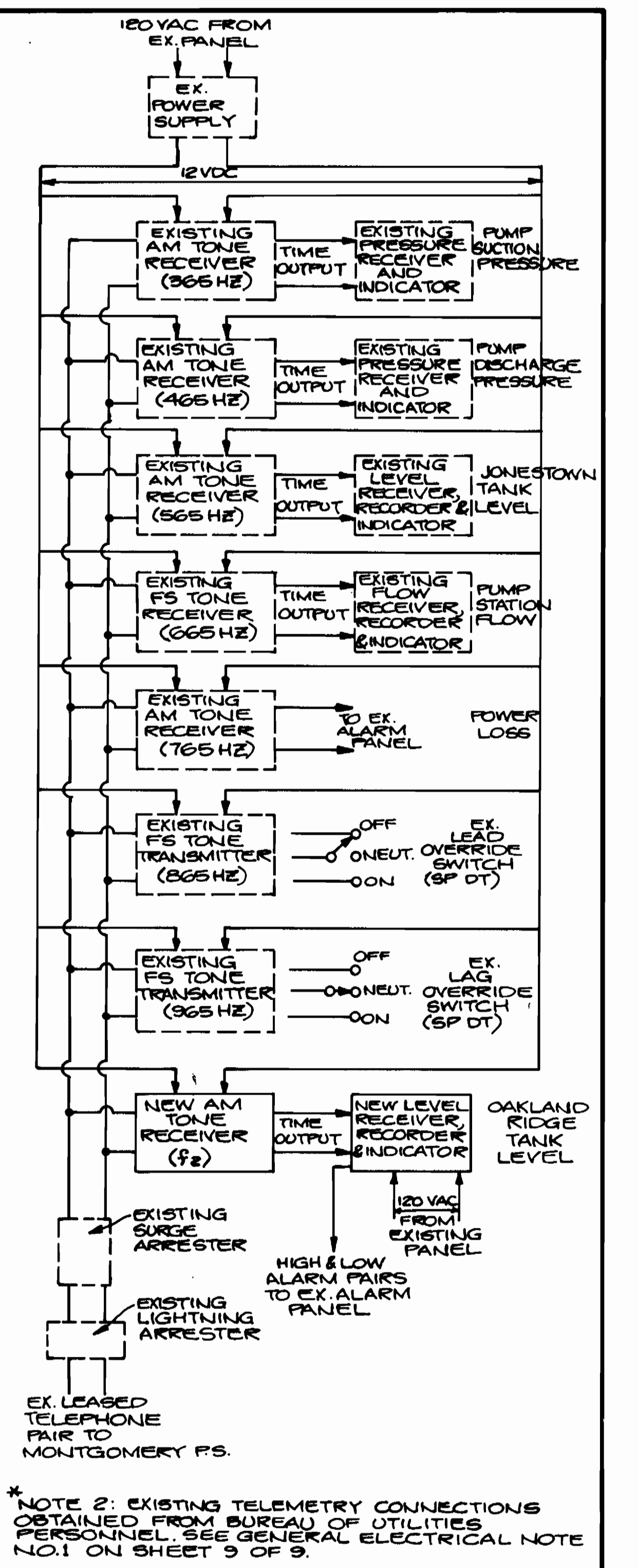
**MONTGOMERY ROAD PUMP CONTROL SCHEMATIC**  
NO SCALE  
(MONTGOMERY ROAD P.S. IS EXISTING)



**OAKLAND RIDGE TANK TELEMETRY EQUIPMENT**  
NO SCALE



**MONTGOMERY ROAD P.S. TELEMETRY EQUIPMENT**  
NO SCALE  
(MONTGOMERY ROAD P.S. IS EXISTING)



**TELEMETRY EQUIPMENT AT BUREAU OF UTILITIES**  
NO SCALE  
(BUREAU OF UTILITIES IS EXISTING)

NOTE 1: INFORMATION ON EXISTING PUMP CONTROL OBTAINED FROM BUREAU OF UTILITIES PERSONNEL. SEE GENERAL ELECTRICAL NOTE NO. 1 ON SHEET 9 OF 9.

\*NOTE 2: EXISTING TELEMETRY CONNECTIONS OBTAINED FROM BUREAU OF UTILITIES PERSONNEL. SEE GENERAL ELECTRICAL NOTE NO. 1 ON SHEET 9 OF 9.

Robert M. Berger 1-24-83 CHIEF - BUREAU OF UTILITIES - DATE	Allen L. Brown 1/24/83 CHIEF - UTILITY DIVISION - DATE	10-04-85 REV. NO. 2	AS BUILT REVISION DESCRIPTION
PATTON, HARRIS, RUST & ASSOCIATES A PROFESSIONAL CORPORATION CONSULTING ENGINEERING - LAND SURVEYING - PLANNING FAIRFAX, VIRGINIA		DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 1-15-83 DIRECTOR OF PUBLIC WORKS - DATE	
CONTRACT NO. 44-1037		PROJECT NO. W-8098	

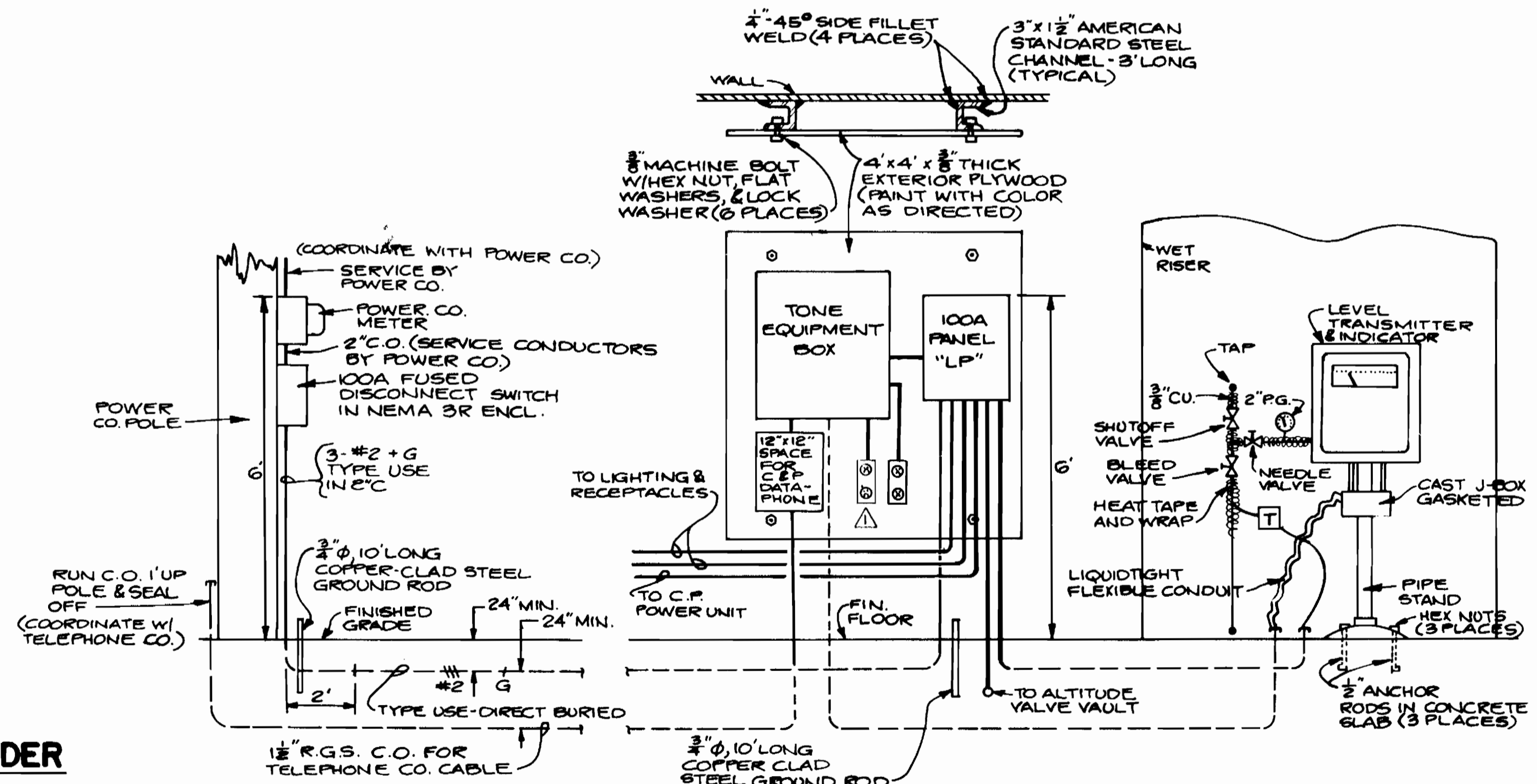
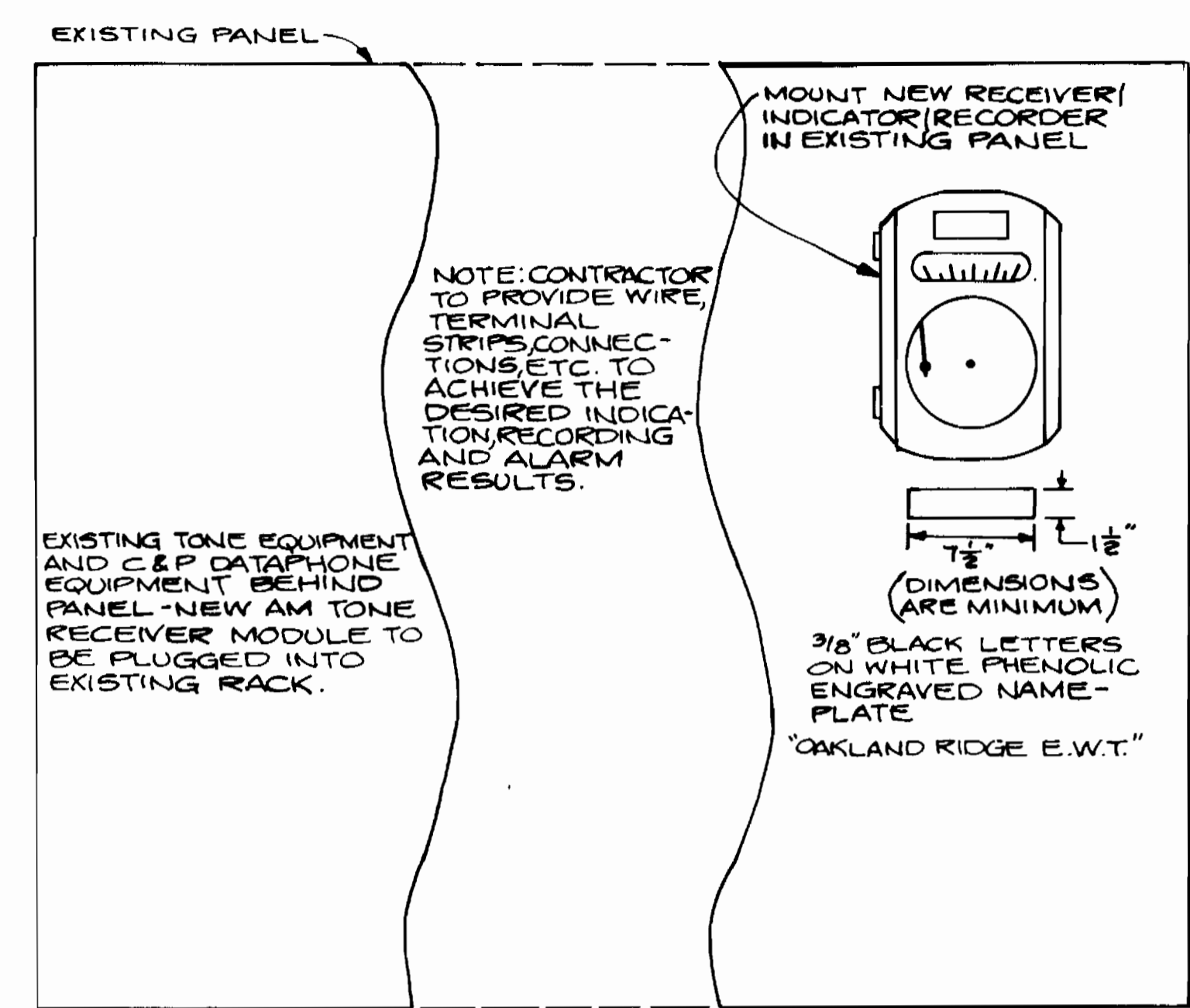
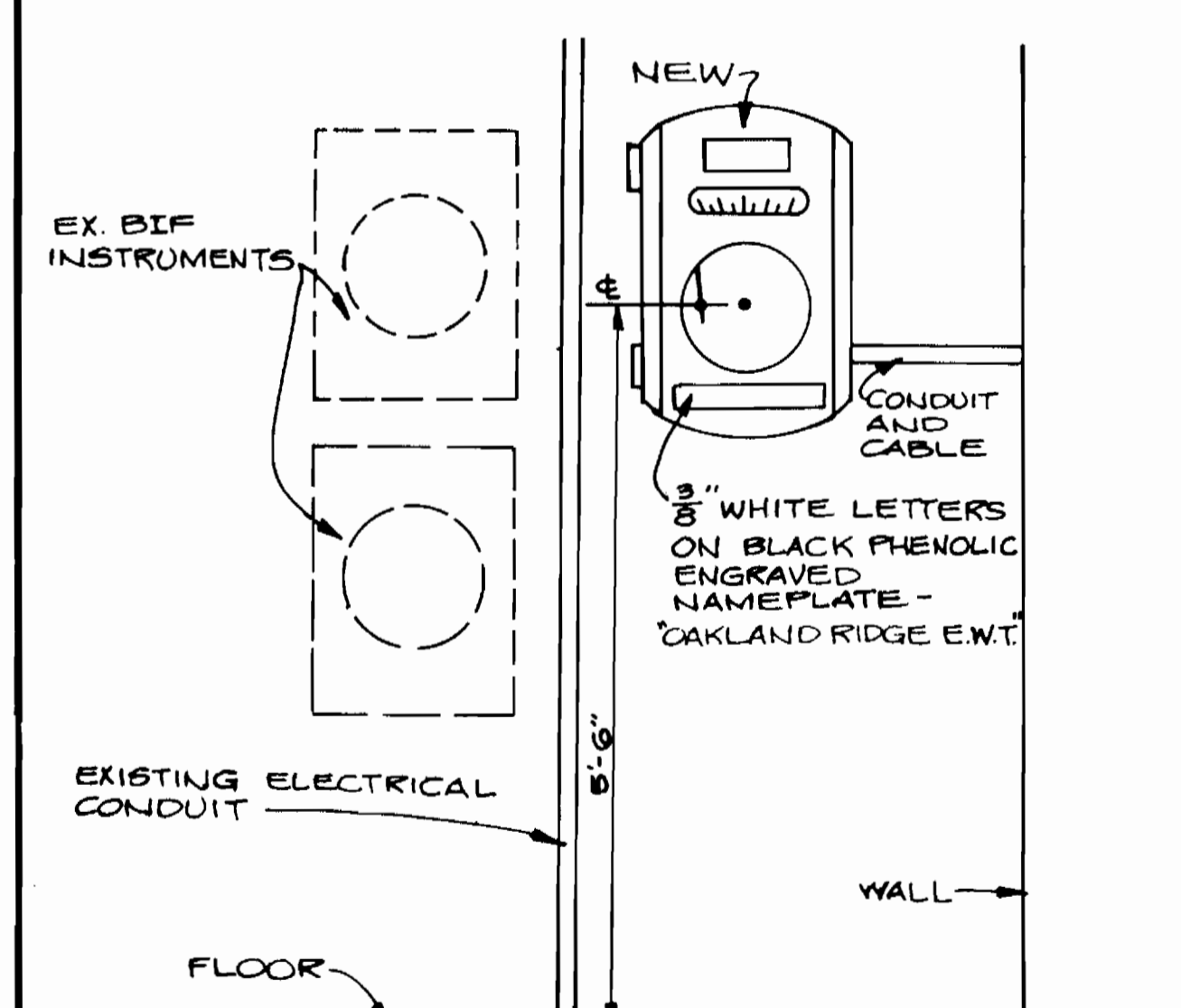
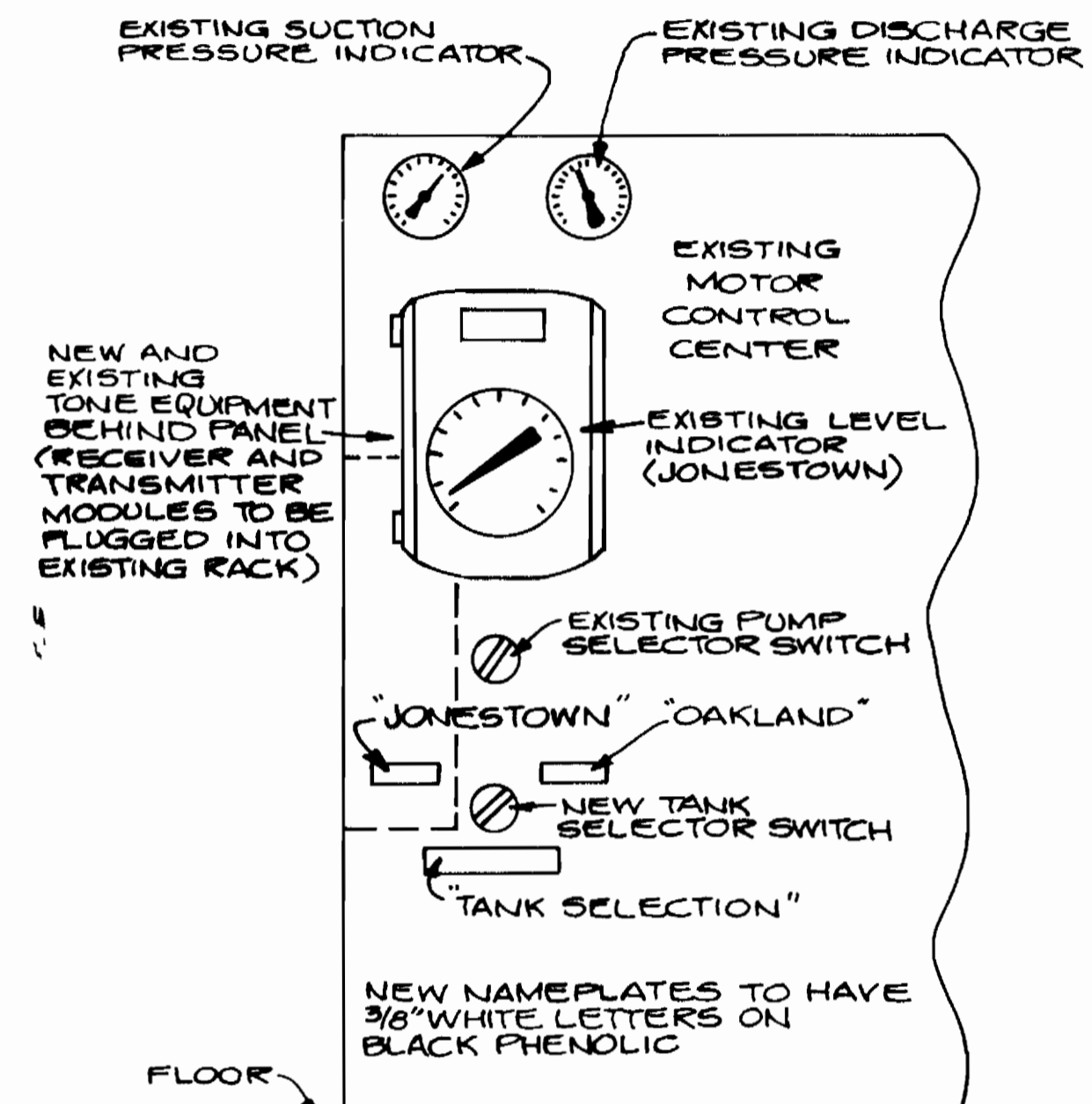
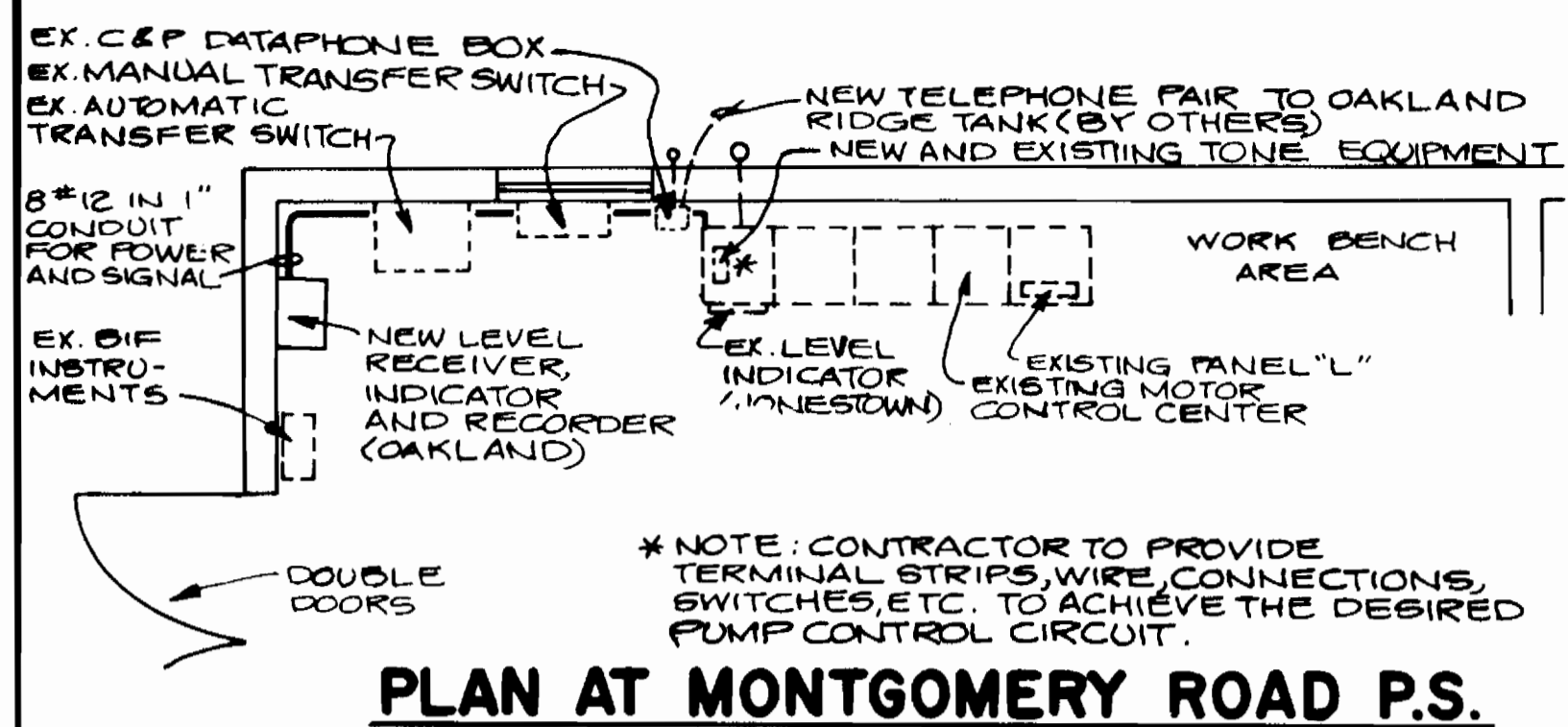
ELECTRICAL		COLUMBIA ELEVATED WATER TANK ELECTION DISTRICT - ELLICOTT CITY NO. 2	
DRAWING NO. 8 OF 9	SCALE AS SHOWN		

AS BUILT OCT. 04, 1985



MAY 5, 1982  
OAKLAND RIDGE ELEVATED WATER TANK  
CONTRACT NO. 44-1037  
CAPITAL PROJECT W-8098





**GENERAL ELECTRICAL NOTES**

- Contractor shall examine all existing equipment, wiring, drawings, handbooks, etc. at the Montgomery Road Pumping Station motor control center and the Bureau of Utilities control and alarm panel before ordering new equipment to insure complete compatibility and achievement of the desired control, indicating, recording and alarm functions. Shop drawings shall show existing equipment and connections where required to illustrate compliance with the design concept.
- Except where otherwise noted all conduit throughout shall be rigid galvanized steel (Minimum I.D. shall be 3/4" for all work).
- All conduit embedded below grade shall be 1" I.D. minimum, coated with an approved asphaltum or bituminous paint (two coats) and 24" below finished grade minimum depth.
- Unless otherwise noted or indicated, convenience duplex receptacles inside the tank central support pillar shall be mounted 1'-6" above finished floor or platform and those inside the altitude valve vault shall be mounted 3' above finished floor.
- Junction and miscellaneous outlet boxes shall be sized in accordance with the latest applicable National Electrical Code.
- Exposed conduit runs shall be routed parallel to or perpendicular to building lines.
- Minimum wire size shall be No. 12 unless otherwise noted or unless specifically directed to the contrary by the manufacturer of the affected equipment.
- The Electrical Contractor shall furnish, install and connect all branch circuiting to all lighting, fixtures, outlets, receptacles and other equipment where "LP" (Lighting Panel) home run is indicated. All conduits and conductors shall be sized in accordance with National Electrical Code Requirements. No conduits or conductors shall be smaller than the sizes noted on the Drawings.
- Feeder conductors shall be type USE. All other conductors shall be THW.
- Power company will install and connect all primary lines, transformers, and secondary cables as noted. Metering cabinets and metering equipment furnished by power company shall be installed by the Electrical Contractor.

- Meters will be furnished, installed and connected by the power company.
- Conduit runs are diagrammatic -- Final location shall be determined in the field to suit equipment.
- Unless specifically dimensioned, all electrical equipment and conduit locations are approximate and shall not be taken as being correct or final. Therefore, the Electrical Contractor shall verify all field conditions and coordinate his work (before installation) with all trades to prevent interferences.
- All lighting circuits shall be 3/4" conduit with 2-#12 wires unless otherwise noted.
- A bare or green insulated copper grounding conductor shall be provided in each conduit for every circuit and each grounding conductor shall be bonded at each end to form a solid grounding system.

**ELECTRICAL LEGEND**

- Conduit and Cables, run exposed. Hack marks indicate number of conductors, no marks indicate two no. 12 conductors. See notes for ground conductors in conduits
- #2-G Conduit and cables run underground or under slab or direct buried cable. Hack marks indicate number of conductors, number indicates conductor size, "G" indicates grounding conductor.
- Lighting fixture, wall mounted. Letter indicates type (see details)
- Lighting fixture, ceiling mounted. Letter indicates type (see details)
- Floodlight, pole-mounted, letter indicates type (see details)
- Wall-mounted toggle switch for lights or equipment as indicated. Subscript indicates lighting fixtures controlled "WP" indicates weatherproof.
- Duplex receptacle "UP"-ground, 20A, 120V. "WP" indicates weatherproof.
- Code sized cast and gasketed junction of pull box. "WP" indicates weatherproof.
- Circuit breaker, molded case, trip setting and number of poles as indicated
- Heavy-duty service disconnect switch
- Unit heater with built-in fan and thermostat
- Fuses
- Solenoid coil
- Copper clad steel ground rod
- Heat Tape, electrical, with thermostat
- NPBT selector switch, double-throw "N" denotes number of poles
- NPST selector switch, triple-throw "N" denotes number of poles
- Relay or other contacts, normally open (open when coil is deenergized)
- Relay or other contacts, normally closed (closed when coil is deenergized)
- Relay or contactor coil
- Switch operated on a level signal, closed on decreasing level

Chief - Bureau of Utilities - Date: *Allen S. Byrum 1/24/83*  
Chief - Utility Division - Date:

REV. No.	REV. DATE	REVISION DESCRIPTION
10-04-85	AS BUILT	

PATTON, HARRIS, RUST & ASSOCIATES  
A PROFESSIONAL CORPORATION  
CONSULTING ENGINEERING — LAND SURVEYING — PLANNING  
FAIRFAX, VIRGINIA

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
*Director of Public Works* DATE: *1-25-83* *Chief - Bureau of Engineering* DATE:

CONTRACT NO. 44-1037  
PROJECT NO. W-8098

ELECTRICAL

COLUMBIA  
OAKLAND RIDGE ELEVATED WATER TANK  
ELECTION DISTRICT — ELLICOTT CITY NO. 2

DRAWING NO. 9 OF 9  
SCALE AS SHOWN

AS BUILT OCT. 04, 1985



MAY 5, 1982  
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