

NOR-BELL NURSING HOME INTERCEPTOR

WHATCOM COUNTY, WASHINGTON
DEPARTMENT OF PUBLIC WORKS

PAUL F. RUSHING
DIRECTOR OF PUBLIC WORKS

1983

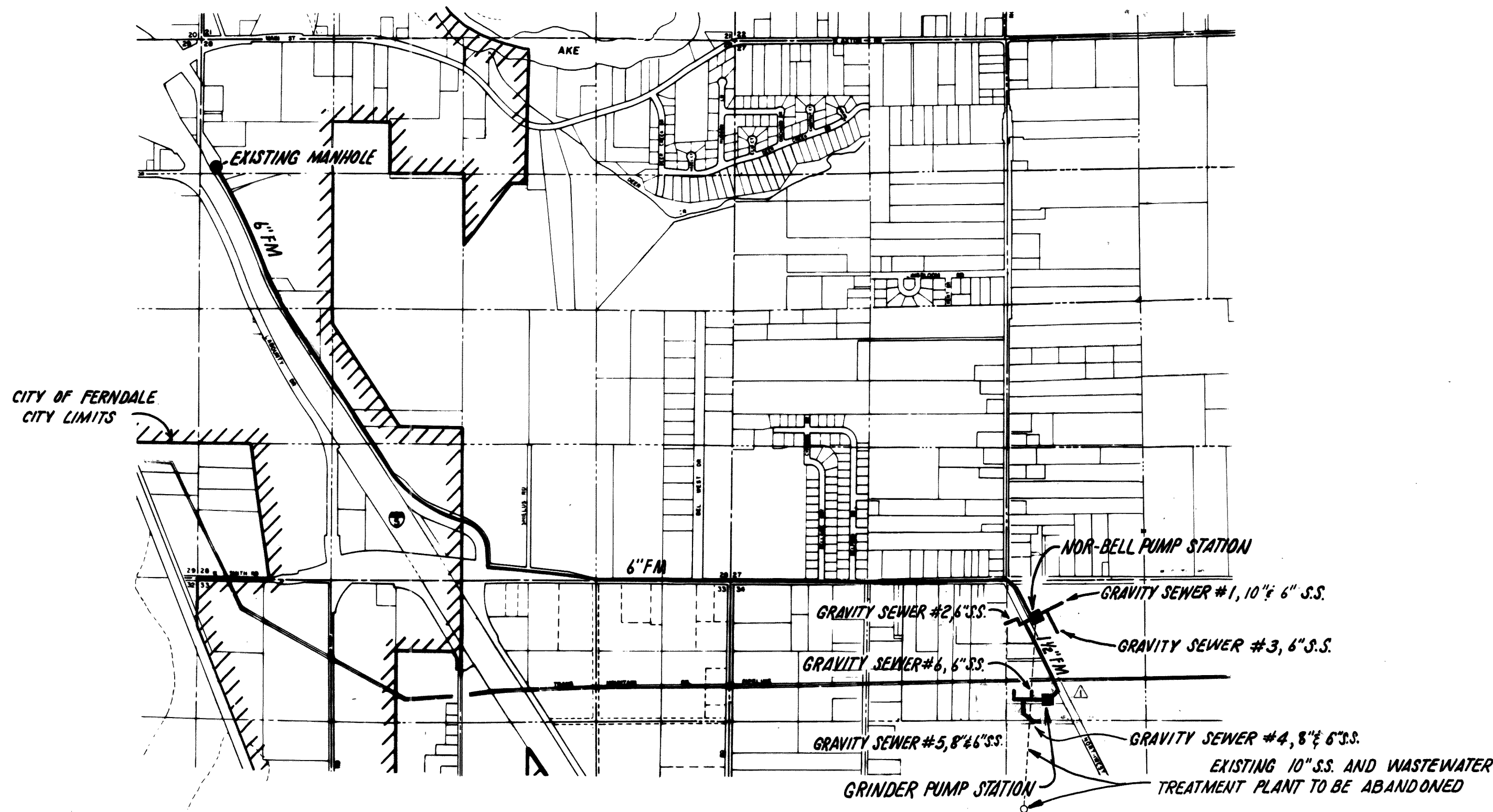
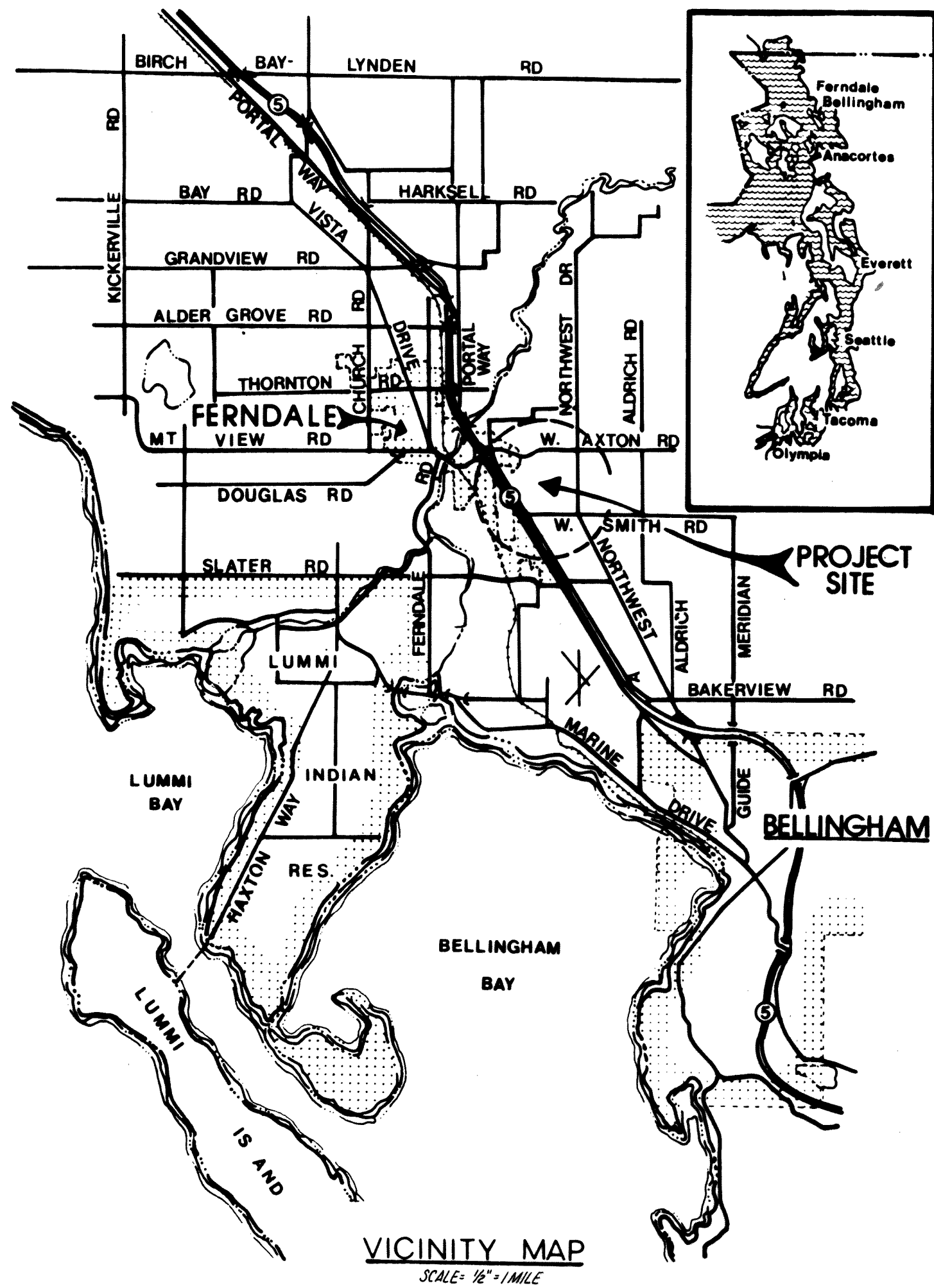
HARPER-OWES
CONSULTING ENGINEERS

CONFORMS TO RECORD
DOCUMENTS
DATE: 1-1-85 B.J.

THIS DRAWING WAS PREPARED ONLY FOR THE
PROJECT AND SITE SPECIFICALLY IDENTIFIED
HEREON AND IS NOT TO BE USED ELSEWHERE
Date: 1-1-85
By: Brian Jensen

THIS PROJECT IS SUPPORTED BY A GRANT OF FUNDS BY
THE DEPARTMENT OF ECOLOGY UNDER THE PROVISIONS
OF REFERENDUM 39.

AS-BUILT



LOCATION MAP
SCALE: 1"=1000'

EXISTING	LEGEND	PROPOSED
---	PROPERTY OR RIGHT-OF-WAY	
+	CENTERLINE	
+	MONUMENT	
---	SURVEY CONTROL LINE	
---	CONTOUR ELEVATION	
● BM EL. 79.20	BENCHMARK	
---	FORCE MAIN SANITARY SEWER	---
---	GRAVITY SANITARY SEWER	---
○	MANHOLE	○
○	AIR/VACUUM RELEASE VALVE	○
○	BLOW-OFF ASSEMBLY	○
---	STORM DRAIN OR CULVERT	---
---	STORM INLET OR CATCH BASIN	---
---	WATERLINE	---
---	WATER METER	---
---	FIRE HYDRANT	---
---	BURIED POWERLINE	---
---	GAS LINE	---
---	BURIED TELEPHONE CABLE	---
---	TELEPHONE PEDESTAL	---
---	UTILITY POLE	---
---	GUY WIRE	---
---	DITCHLINE	---
---	FENCELINE	---
○	TREE	○
---	SHRUBS & LANDSCAPED AREA	---
---	GUARDRAIL	---
● T-4	SOIL TEST PIT LOCATION	

GENERAL NOTES

- ELEVATIONS SHOWN ON THE DRAWINGS ARE BASED ON WASHINGTON STATE DEPARTMENT OF HIGHWAYS DATUM.
- SURVEY CONTROL LINES SHOWN ON THE DRAWINGS WERE ESTABLISHED BY RAYMOND D. WEDEN & ASSOCIATES, INC., IN THE PERIOD OF JANUARY 10 THROUGH MARCH 18, 1983.
- LOCATION OF ALL UNDERGROUND UTILITIES IS APPROXIMATE AND IS BASED ON EXISTING RECORDS ON FILE WITH THE RESPECTIVE UTILITIES AND UTILITY LOCATORS' MARKINGS IN THE FIELD.
- MEASUREMENT OF PIPE SHALL BE MADE FROM CENTER OF MANHOLES, PUMP STATIONS, AND OTHER STRUCTURES, EXCEPT AS OTHERWISE NOTED.
- ALL 6" AND 8" PRESSURE PIPING SHALL BE PROVIDED WITH THRUST BLOCKS IN ACCORDANCE WITH DETAIL 5, SHEET 14.
- CLEANOUTS ON 6" GRAVITY PIPING SHALL BE IN ACCORDANCE WITH DETAIL 5, SHEET 13.
- CLEANOUTS ON 1 1/2" FORCE MAIN SHALL BE IN ACCORDANCE WITH DETAIL 10, SHEET 13.
- AIR/VACUUM RELEASE VALVES SHALL BE IN ACCORDANCE WITH DETAIL 2, SHEET 14.
- BLOW-OFF ASSEMBLIES SHALL BE IN ACCORDANCE WITH DETAIL 1, SHEET 14.
- PIPE BEDDING AND PAVEMENT RESTORATION SHALL BE IN ACCORDANCE WITH DETAIL 4, SHEET 14 AND APWA STANDARD PLAN 62.
- GRAVITY SEWERS SHALL BE STRAIGHT LINES BETWEEN MANHOLES, FITTINGS & PUMP STATIONS.
- MANHOLES, TYPES I-48 AND III-48 SHALL BE IN ACCORDANCE WITH APWA STANDARD PLANS 34 AND 37, RESPECTIVELY.
- CLEANOUTS ON 6" AND 8" FORCE MAIN SHALL BE IN ACCORDANCE WITH DETAIL 6, SHEET 14.

INDEX OF DRAWINGS

SHEET NO.	DRAWING NO.	
1	G-1	COVER SHEET
2	G-2	VICINITY MAP, LOCATION MAP, LEGEND, GENERAL NOTES, INDEX OF DRAWINGS
3	PP-1	PLAN & PROFILE- 6" FM- STA. 2+00 TO STA. 12+50
4	PP-2	PLAN & PROFILE- 6" FM- STA. 12+50 TO STA. 26+50
5	PP-3	PLAN & PROFILE- 6" FM- STA. 26+50 TO STA. 41+00
6	PP-4	PLAN & PROFILE- 6" FM- STA. 41+00 TO STA. 55+50
7	PP-5	PLAN & PROFILE- 6" FM- STA. 55+50 TO STA. 70+00
8	PP-6	PLAN & PROFILE- 6" FM- STA. 70+00 TO STA. 84+00
9	PP-7	PLAN & PROFILE- 6" FM- STA. 84+00 TO STA. 98+50
10	PP-8	PLAN & PROFILE- 6" FM- STA. 98+50 TO STA. 106+47 GRAVITY SEWERS #1, 2, & 3 AND 1 1/2" FM- STA. 0+00 TO STA. 3+00
11	PP-9	PLAN & PROFILE- 1 1/2" FM- STA. 3+00 TO STA. 8+20, AND GRAVITY SEWERS #4, 5, & 6.
12	D-1	PUMP STATION DETAILS
13	D-2	MISCELLANEOUS DETAILS
14	D-3	MISCELLANEOUS DETAILS
15	E-1	ELECTRICAL PLANS & DETAILS
16	E-2	ONE-LINE DIAGRAMS & CONTROL SCHEMATICS

CONFORMS TO RECORD DOCUMENTS

DATE: 1-4-85 B.J.

THIS DRAWING WAS PREPARED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON AND IS NOT TO BE USED ELSEWHERE

DATE: 1-4-85
BY: Blaine Jacobsen



AS-BUILT

WHATCOM COUNTY, WASHINGTON
NOR-BELL NURSING HOME INTERCEPTOR

VICINITY MAP, LOCATION MAP, LEGEND,
GENERAL NOTES, INDEX OF DRAWINGS

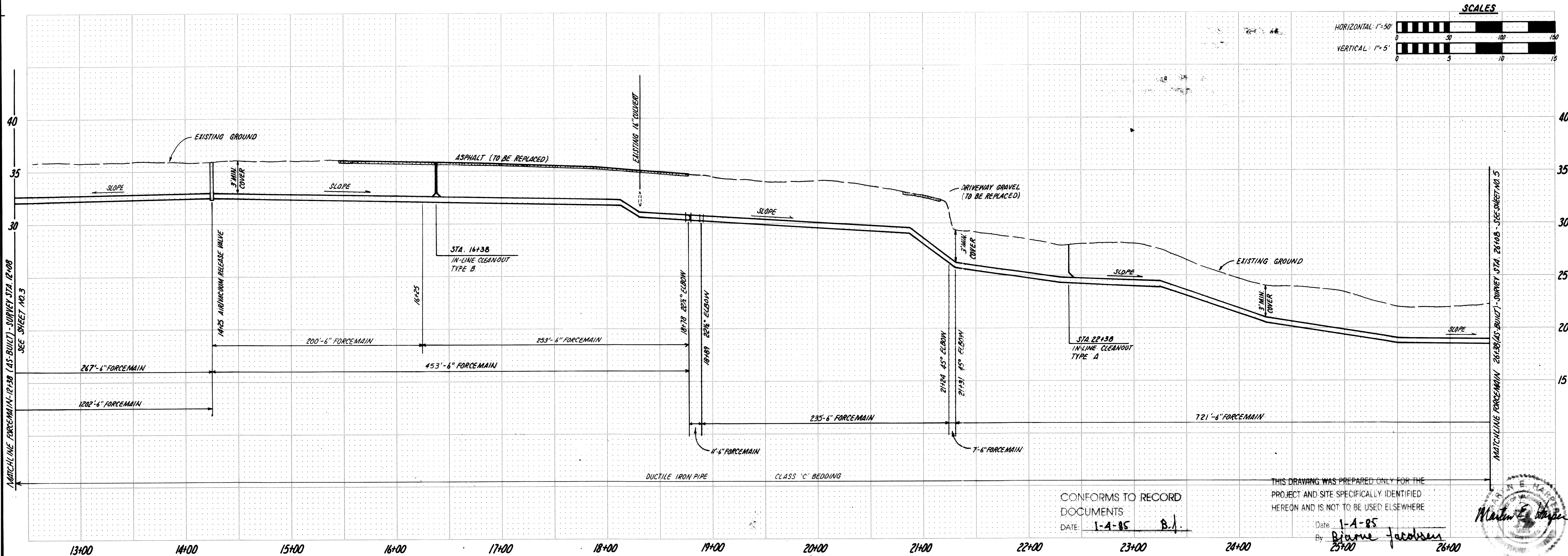
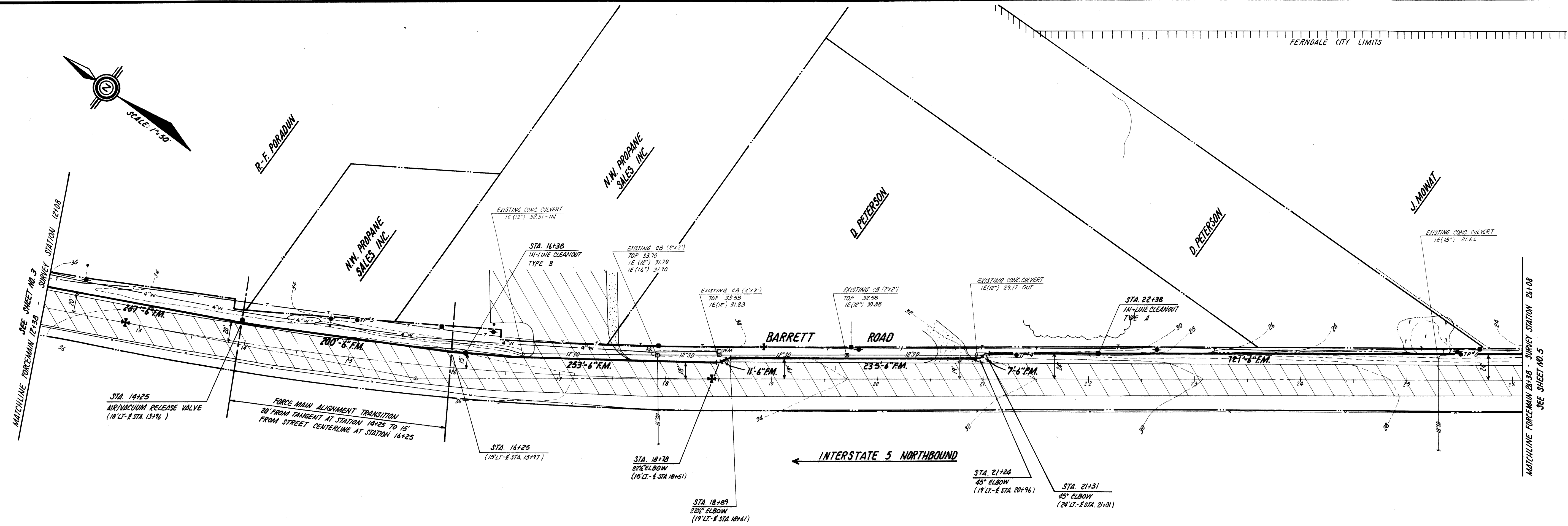
consulting
engineers

harper
owes

Drawing No. G-2

Sheet No. 2/16

00217.002 2-6-06 KR

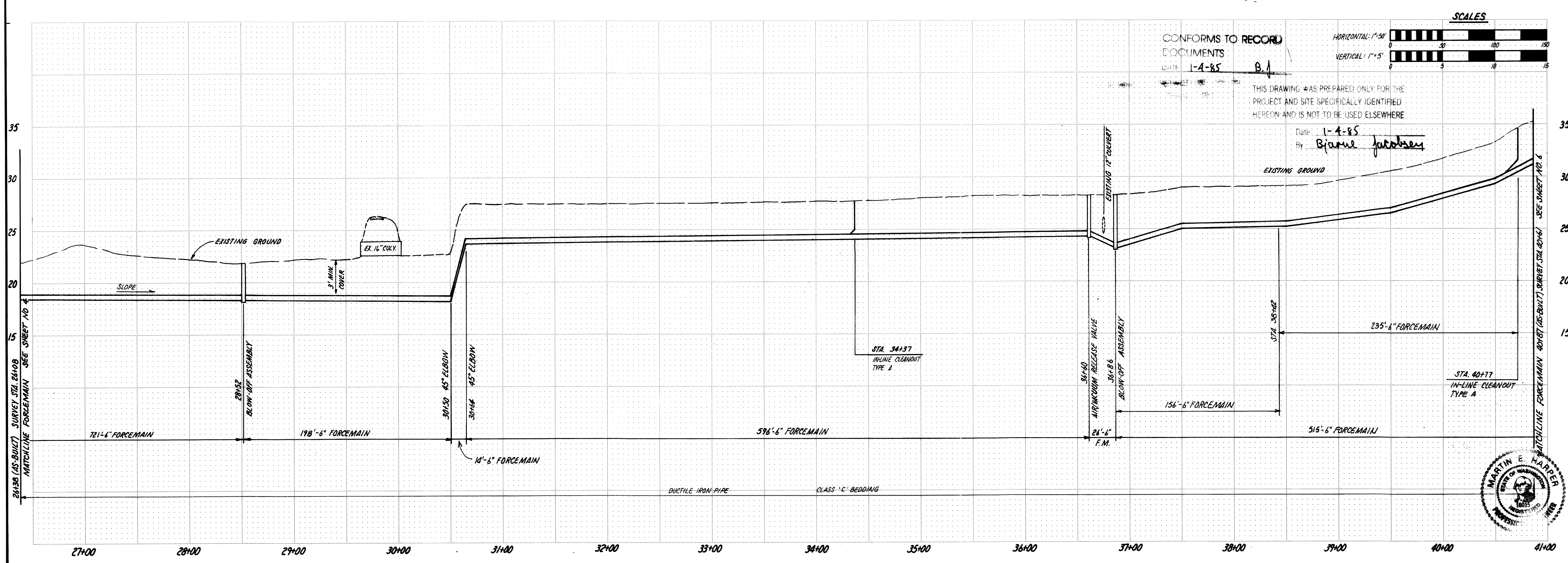
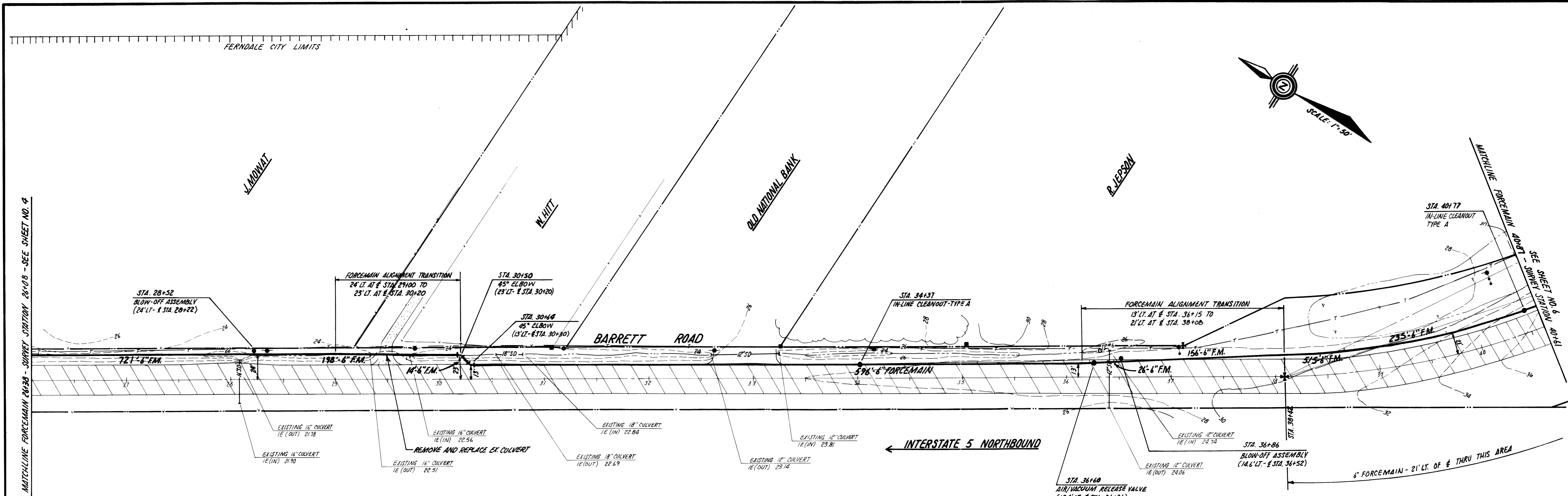


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BY: Blaine Jacobsen



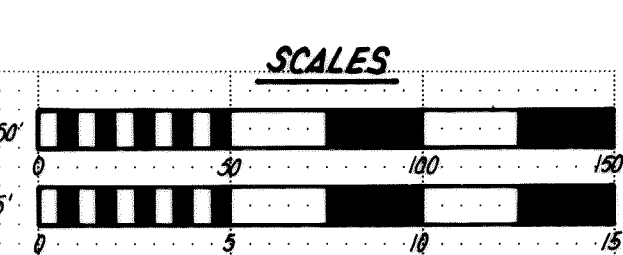
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AS-BUILT PLAN AND PROFILE 6" FORCEMAIN STA 12+38 TO 26+38		Sheet Title
consulting engineers		Revisions: DEC 27, 1983 AS-BUILT CHANGES (UPDATE ALPHABET 1-1-85)
Blaine Jacobsen		Drawing No: PP-2 Sheet No: 4/16



26+38 (AS-BUILT) SURVEY STA. 26+38 - SEE SHEET NO. 4
MATCHLINE FORCEMAIN 26+38 - SEE SHEET NO. 4

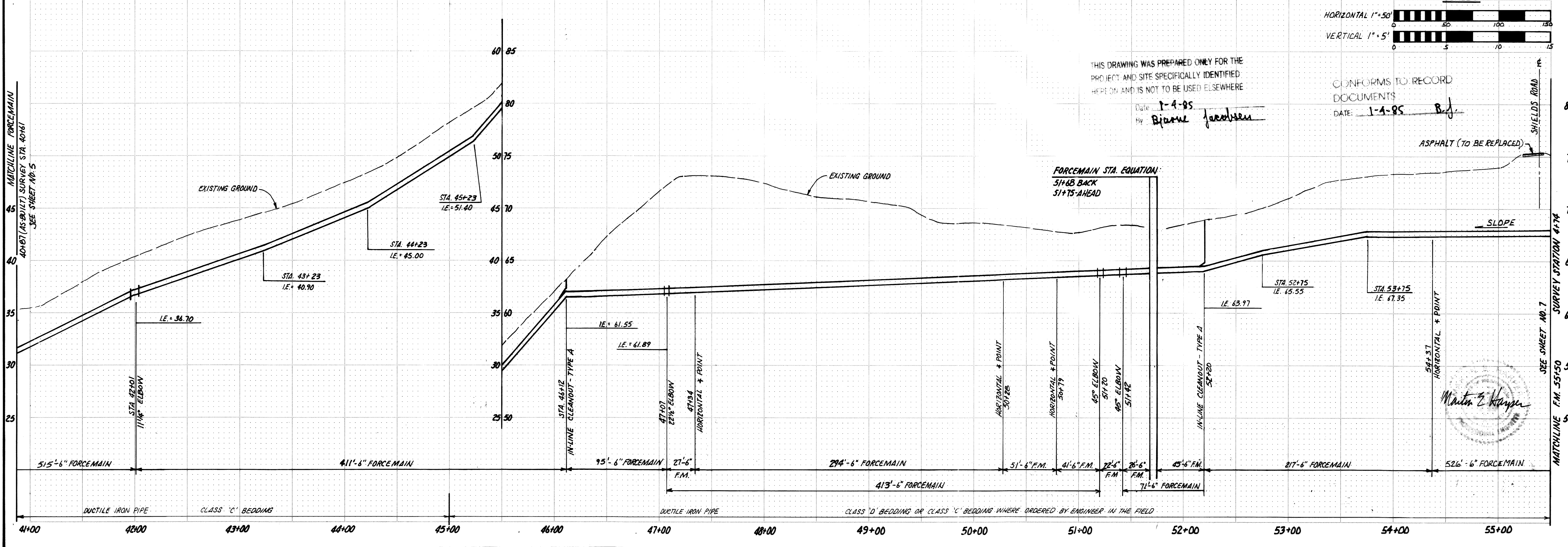
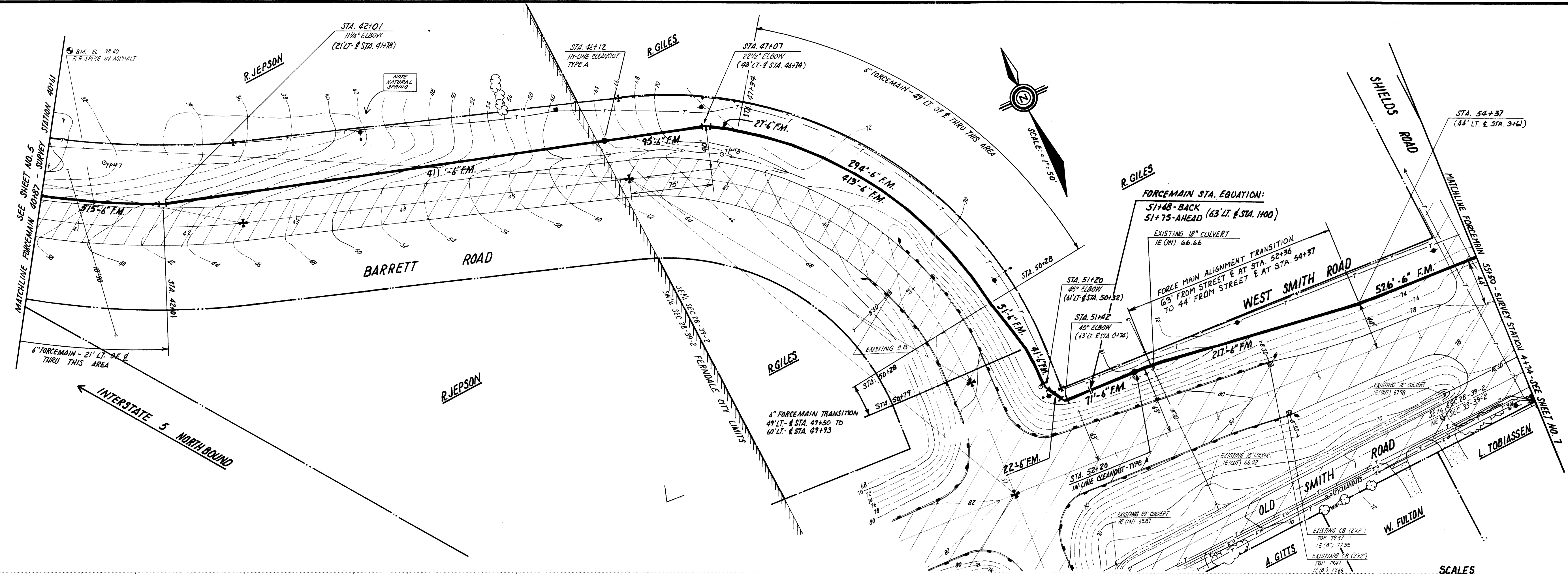
DATE: JULIE 1983
DESIGNED BY: BJ
DRAWN BY: CRL
APPROVED BY: [Signature]
WHATCOM COUNTY, WASHINGTON
NOR-BELL NURSING HOME INTERCEPTOR
AS-BUILT
PLAN AND PROFILE
6" FORCEMAIN STA 26+38 TO 40+84
00217.005 2-6-06 KR

CONFORMS TO RECORD DOCUMENTS
DATE: 1-4-85
BY: BJ
THIS DRAWING WAS PREPARED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON AND IS NOT TO BE USED ELSEWHERE
Date: 1-4-85
By: Blaine Jacobsen



consulting engineers
harper owes
Drawing No. PP-3
Sheet No. 5/16

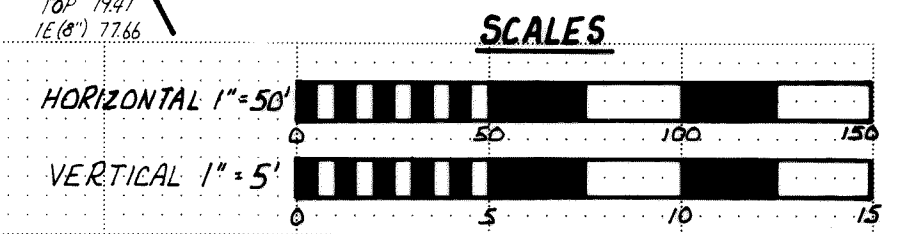
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THIS DRAWING WAS PREPARED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON AND IS NOT TO BE USED ELSEWHERE

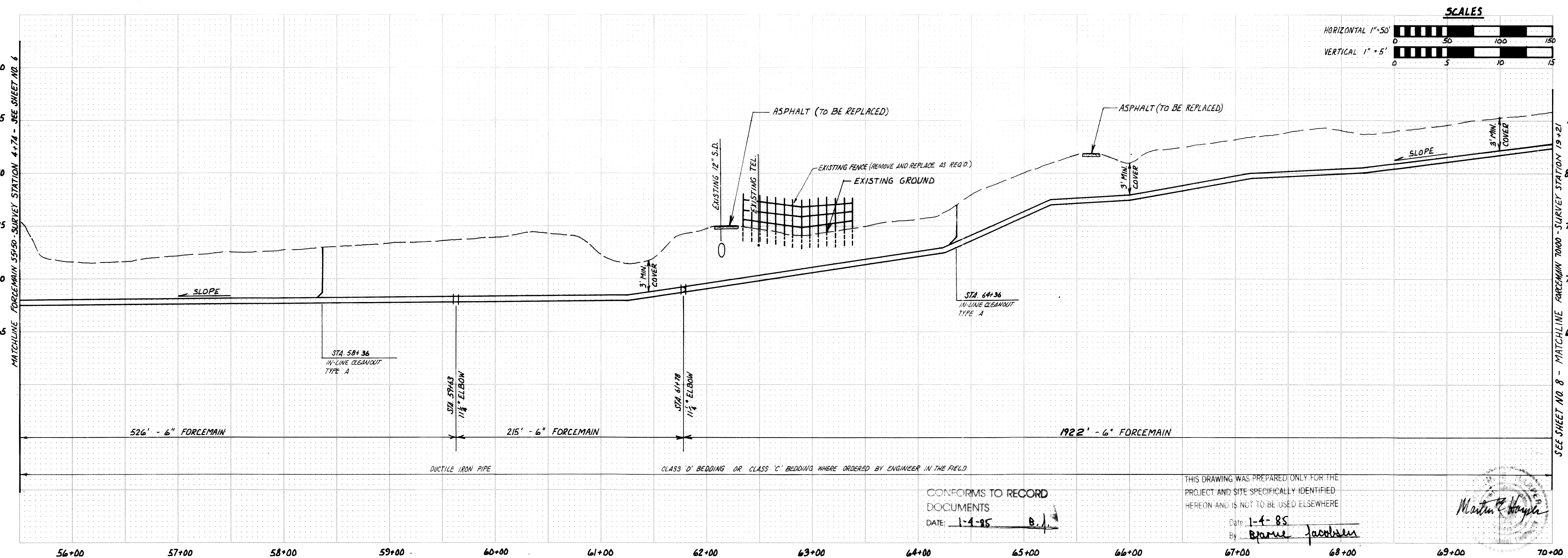
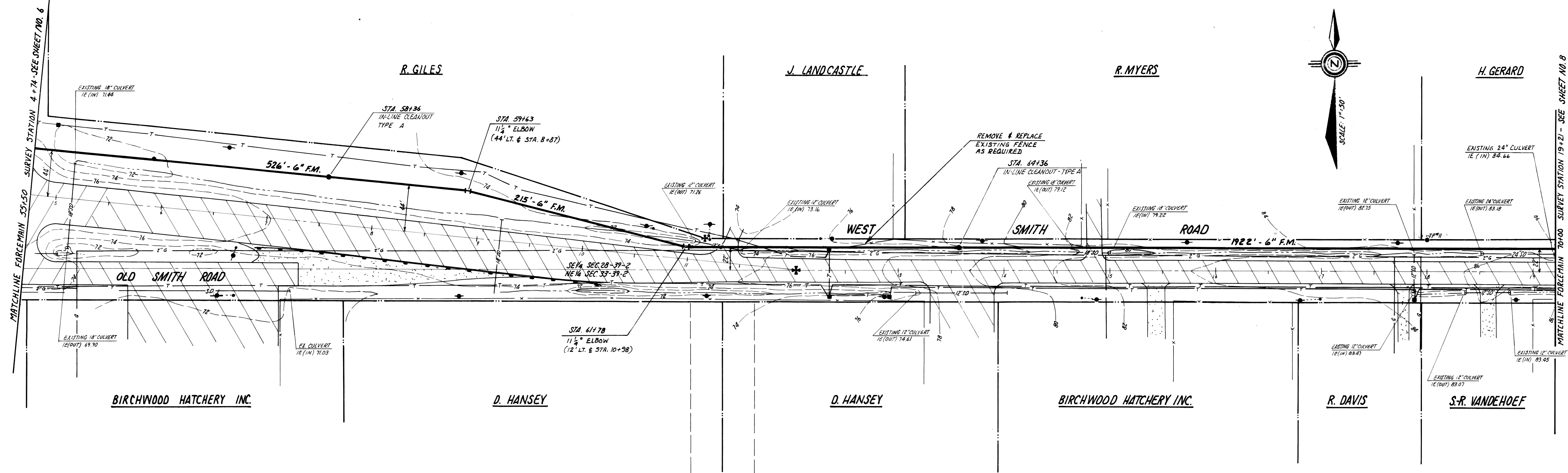
Date: 1-4-85
By: Brian Jacobsen

CONFORMS TO RECORD DOCUMENTS
DATE: 1-4-85



WHATCOM COUNTY, WASHINGTON		NOR-BELL NURSING HOME INTERCEPTOR	
AS-BUILT		PLAN AND PROFILE	
6" FORCEMAIN STA 40+84 TO 55+54		Sheet Title	
Date: JUNE 1983	Designed By: B.J.	Drawn By: CRL	Approved By: [Signature]
Drawing No: PP-4		Sheet No: 6/16	

00217.000 2.4.06 KR

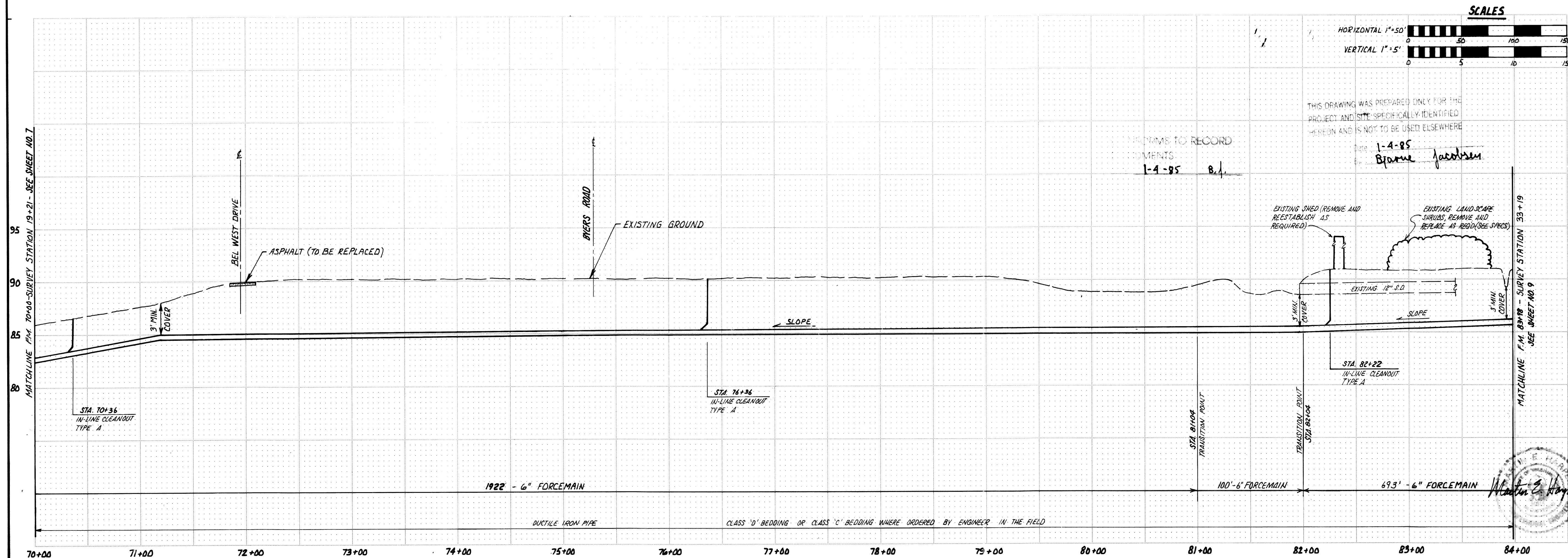
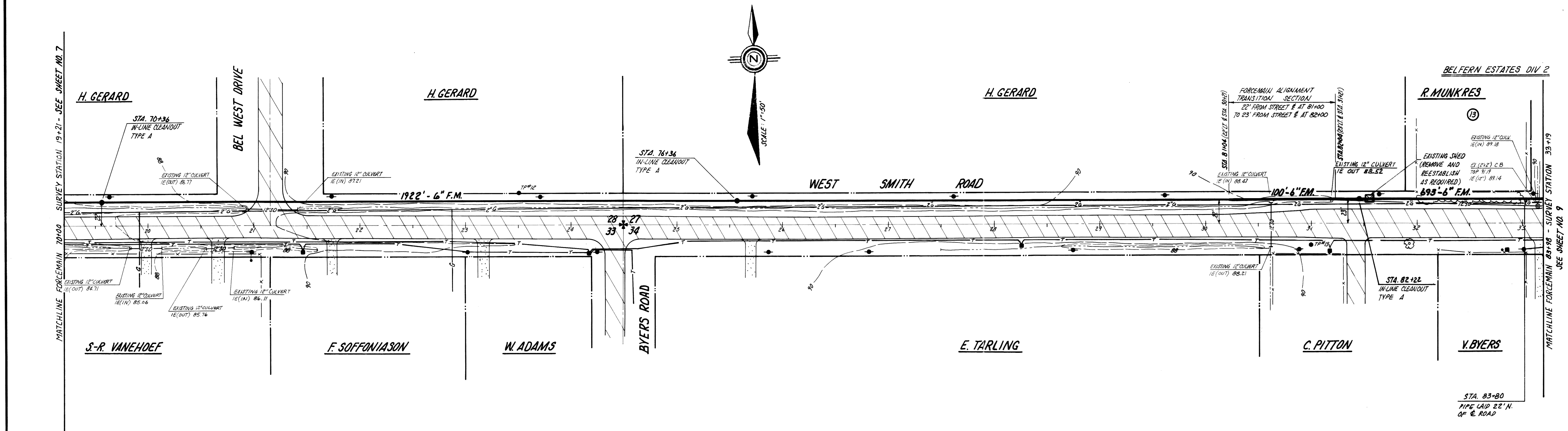


CONFORMS TO RECORD DOCUMENTS
DATE: 1-4-85 BY: B.J.

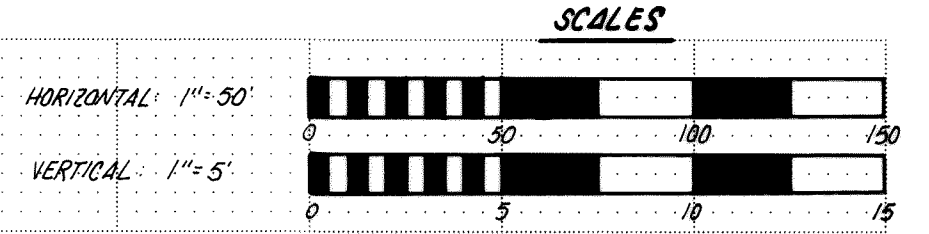
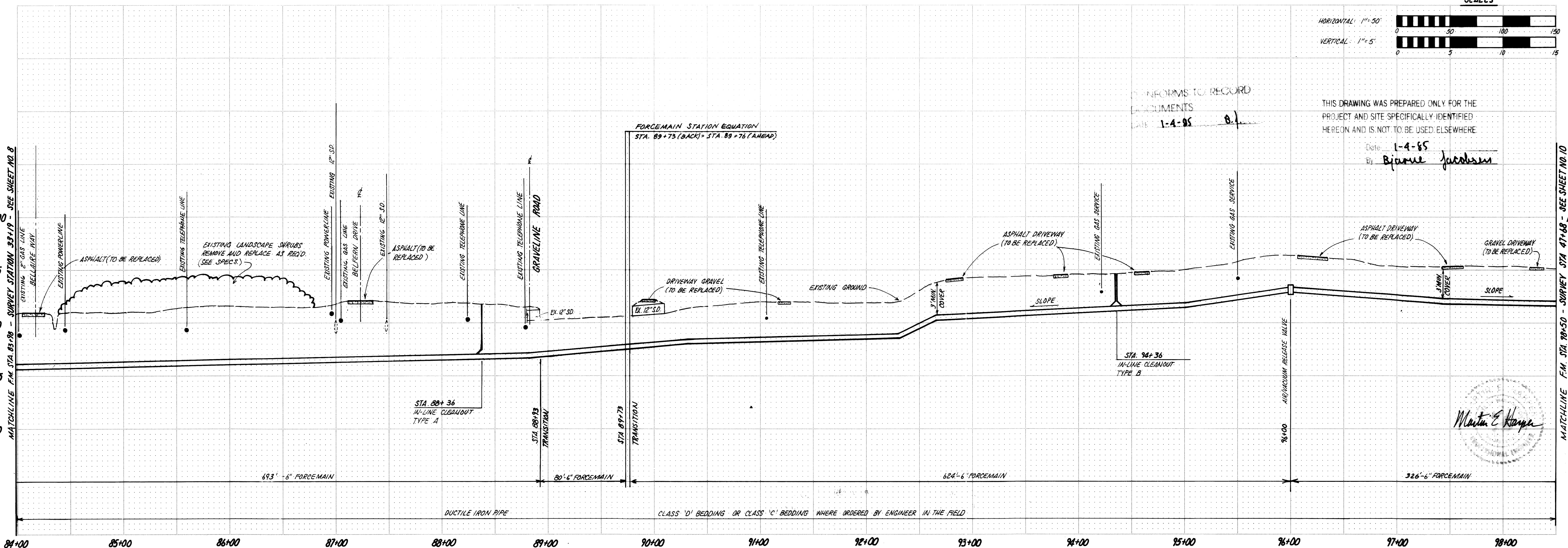
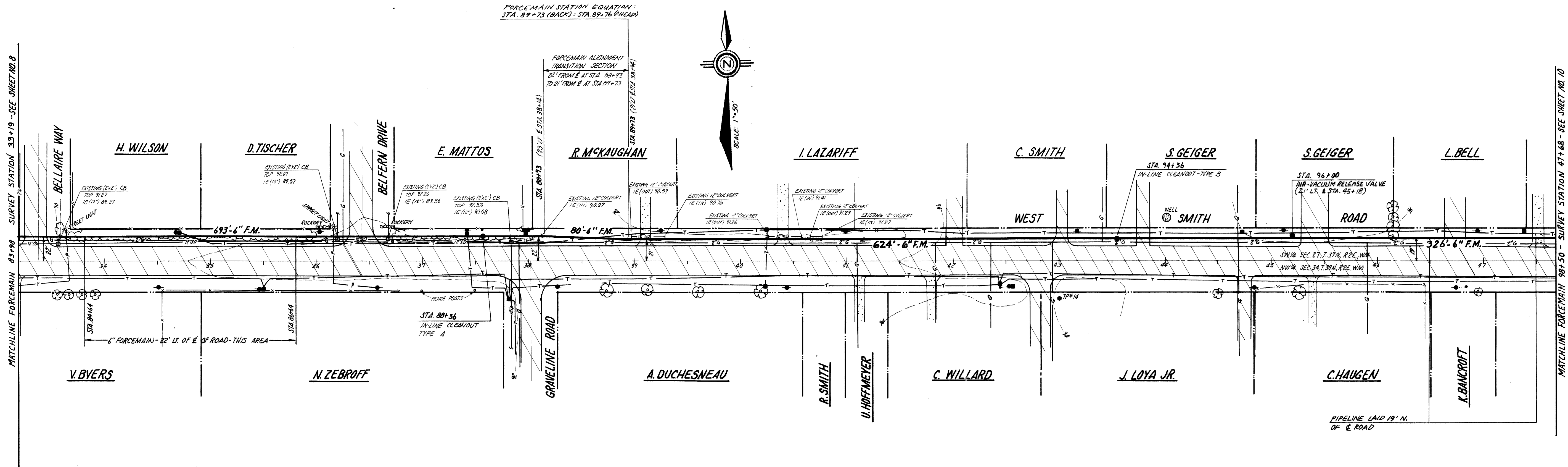
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DATE: 1-4-85 BY: Bruce Jacobson

Martin Jacobson

WHATCOM COUNTY, WASHINGTON NOR-BELL NURSING HOME INTERCEPTOR		AS-BUILT PLAN AND PROFILE 6" FORCEMAIN STA 55+54 TO 70+04	
Sheet Title		Sheet Title	
Date: JAN 4, 1984		Date: JAN 4, 1984	
Revisions: AS-BUILT CHANGES (UPDATE AS-BUILT 1-4-85)		Revisions: AS-BUILT CHANGES (UPDATE AS-BUILT 1-4-85)	
Designed By: B.J.		Designed By: B.J.	
Drawn By: CRL		Drawn By: CRL	
Checked By: B.J.		Checked By: B.J.	
Approved By: B.J.		Approved By: B.J.	
Drawing No: PP-5		Drawing No: PP-5	
Sheet No: 7/16		Sheet No: 7/16	



JUNE 1983	
Designed By	B.J.
Drawn By	CCL
Approved By	W. Jacobsen
WHATCOM COUNTY, WASHINGTON NOR-BELL NURSING HOME INTERCEPTOR	
AS-BUILT PLAN AND PROFILE 6" FORCEMAIN STA 70+04 TO 84+02	
Sheet Title	
Revisions	
Date	Revisions
JAN 4, 1984	AS-BUILT CHANGES (UPDATED AS-BUILT 1-4-85)
Drawing No. PP-6	
Sheet No. 8/16	



CONFORMS TO RECORD
DOCUMENTS
DATE 1-4-85

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Date 1-4-85
By *Bjarne Jacobsen*

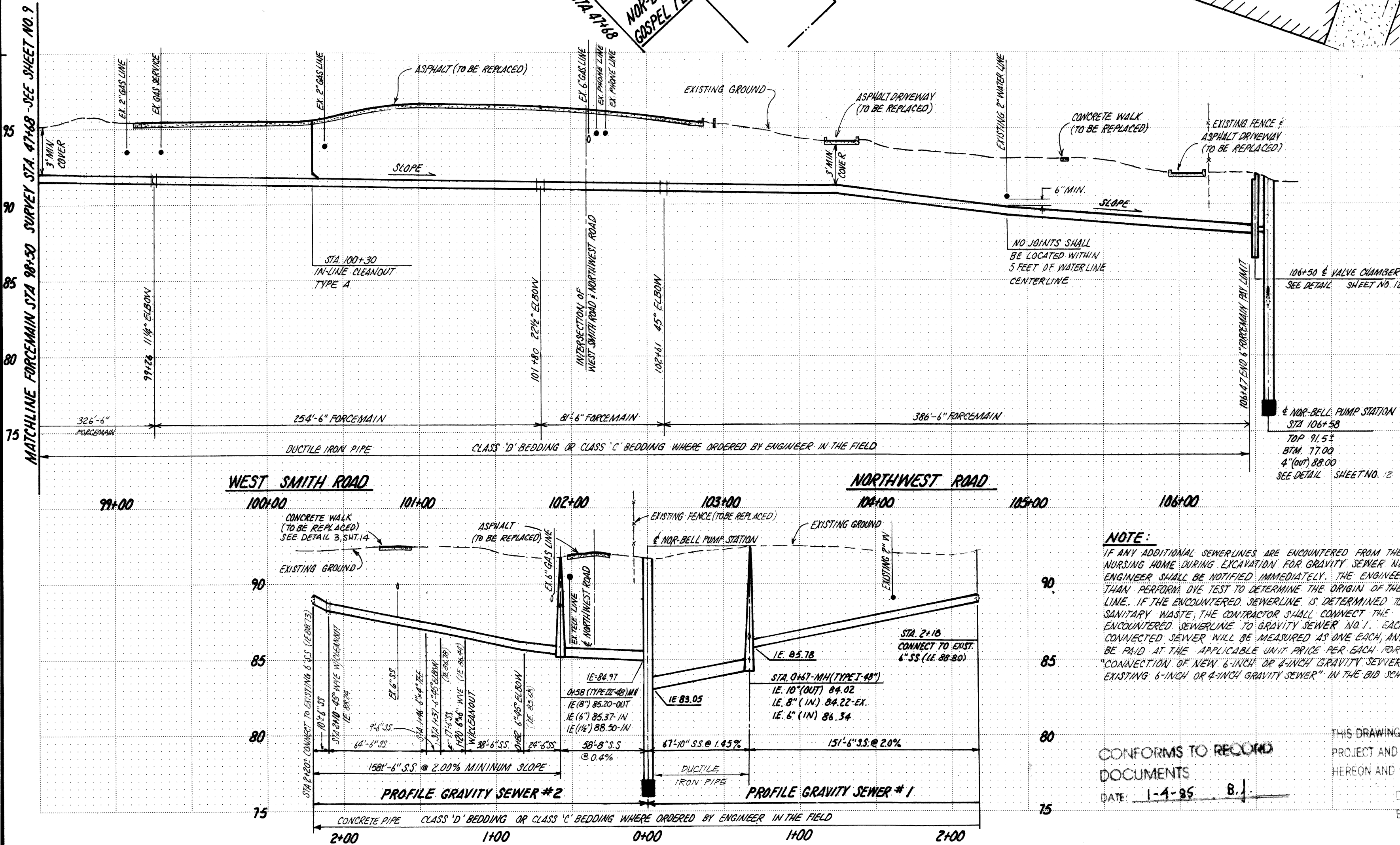
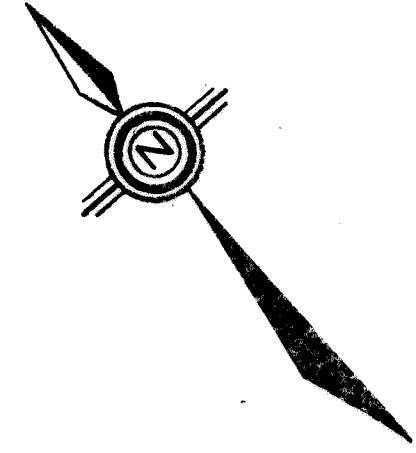
Date: JUNE 1985	
Designed By: BJ	
Drawn By: CRL	
Approved By: <i>Bjarne Jacobsen</i>	
Sheet Title: WHATCOM COUNTY, WASHINGTON NOR BELL NURSING HOME INTERCEPTOR	
Drawing No: PP-7	
Sheet No: 9/16	

AS-BUILT
PLAN AND PROFILE
6" FORCE MAIN STA 84+02 to 98+51

00217.009 2.0.06 KML

LOCATION OF FITTINGS
GRAVITY SEWER #2
FITTING STATION DESCRIPTION SURVEY STA. (NORTHWEST RD.)

1	0+58	MANHOLE, TYPE III - 68	23 RT. - E STA. 4136
2	0+82	6" 45° ELBOW	40 RT. - E STA. 4+19
3	1+20	6" 45° WVE W/CLEANOUT	40 RT. - E STA. 3+81
4	1+37	6" 45° ELBOW	52 RT. - E STA. 3+70
5	1+46	6" 4" TEE	41 RT. - E STA. 3+70
6	2+10	6" 45° WVE W/CLEANOUT	125 RT. - E STA. 3+70
7	2+20	6" 45° ELBOW & CONNECT TO EXISTING 6" SS	135 RT. - E STA. 3+65



WHATCOM COUNTY

NORTHWEST ROAD

GRAVITY SEWER #3

REPLACE FENCE AS REQUIRED

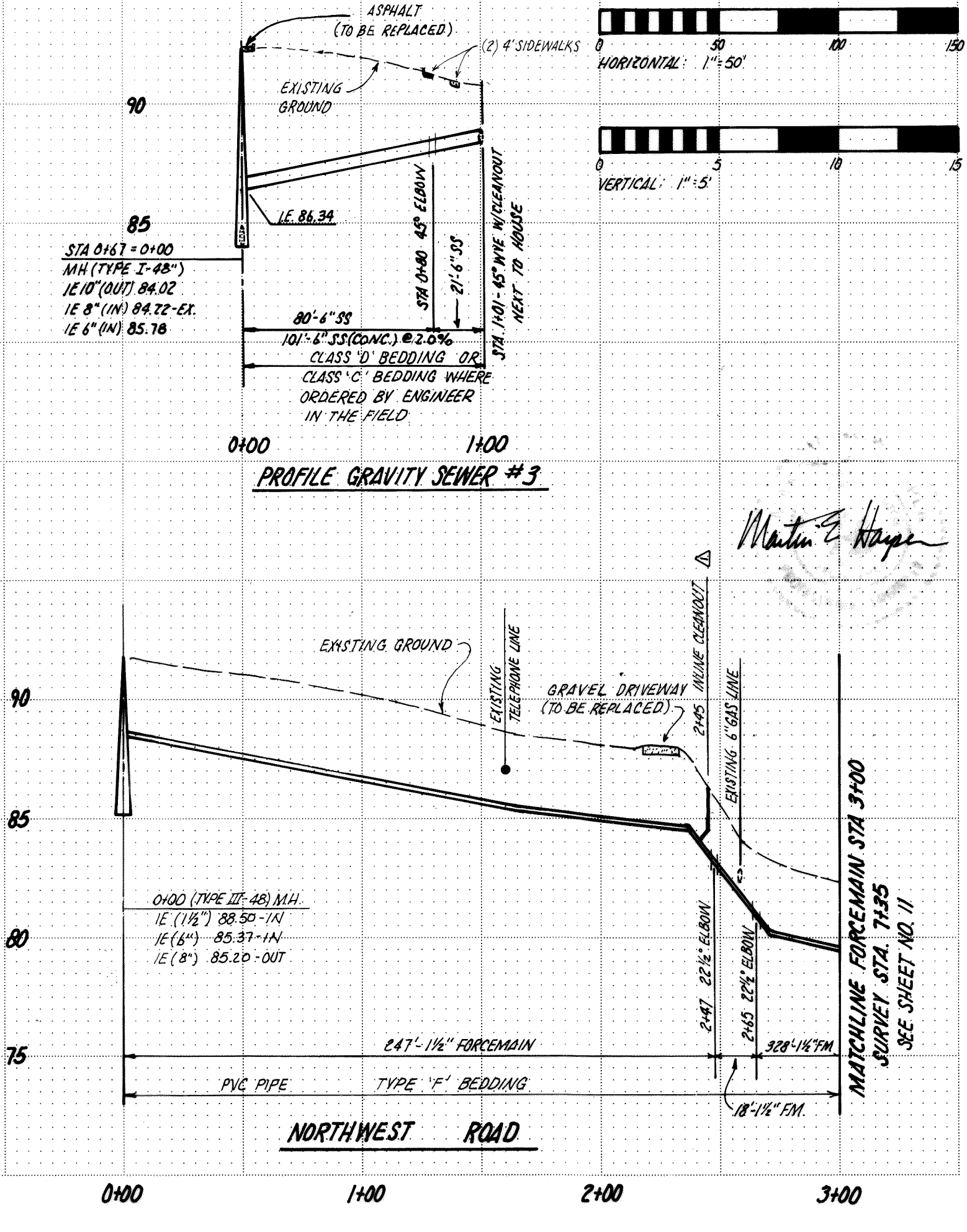
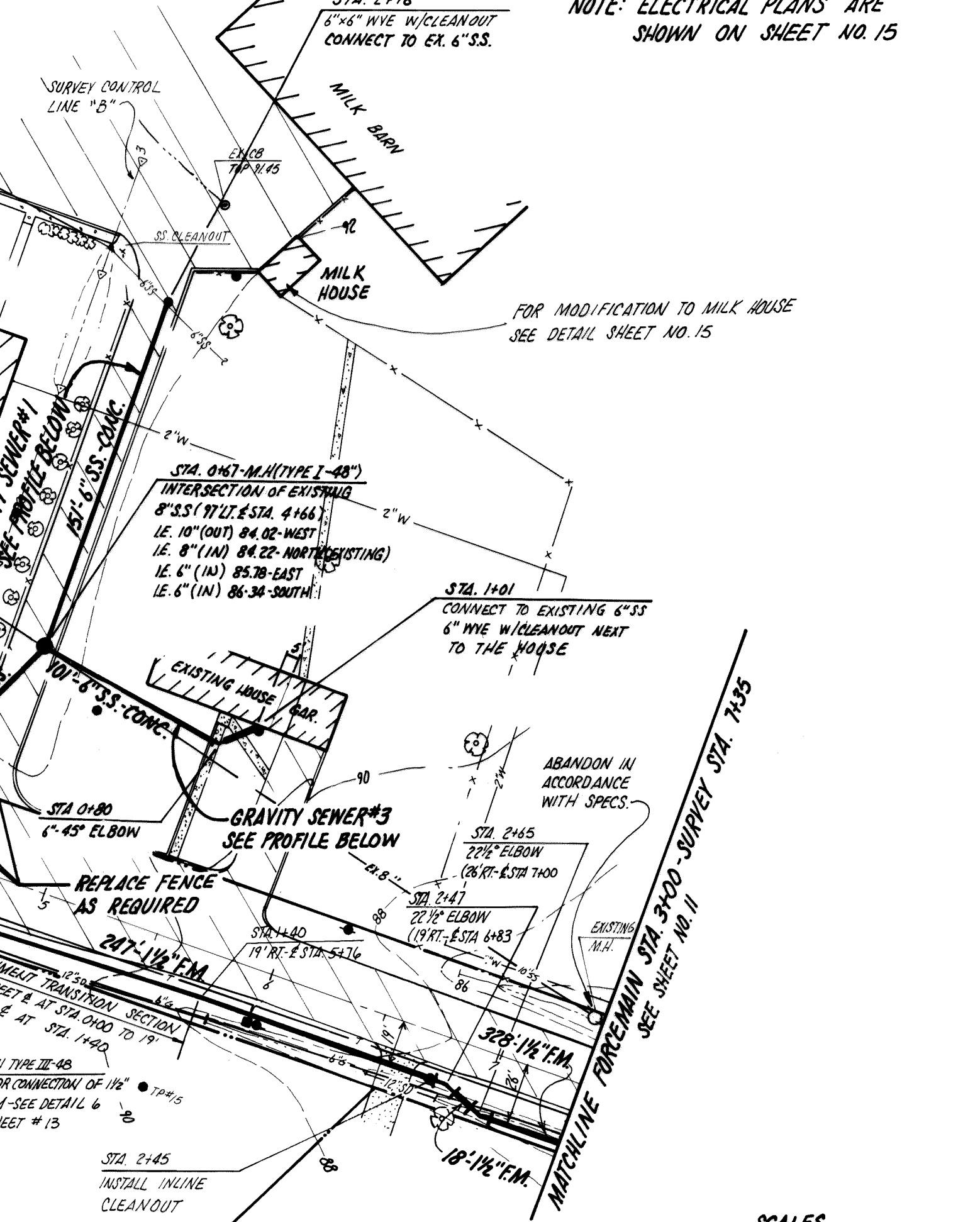
GRAVITY SEWER #2

GRAVITY SEWER #1

GRAVITY SEWER #4

GRAVITY SEWER #5

GRAVITY SEWER #6



NOTE: ELECTRICAL PLANS ARE SHOWN ON SHEET NO. 15

AS-BUILT

WHATCOM COUNTY, WASHINGTON
NOR BELL NURSING HOME INTERCEPTOR

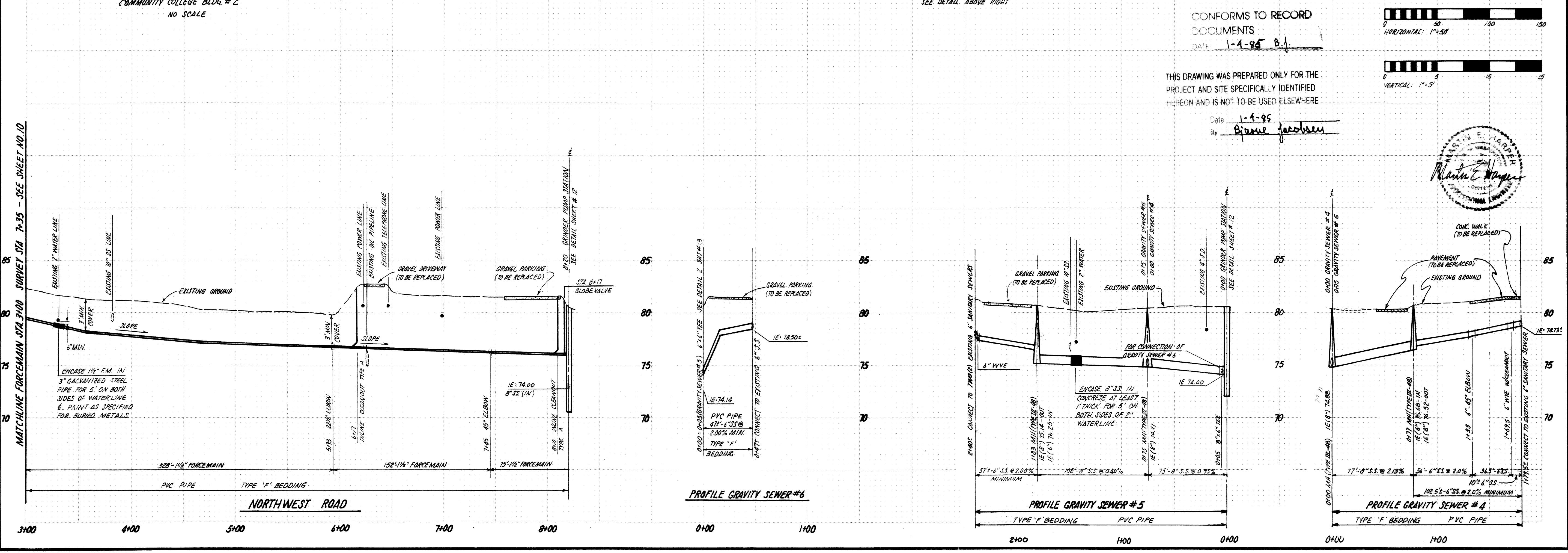
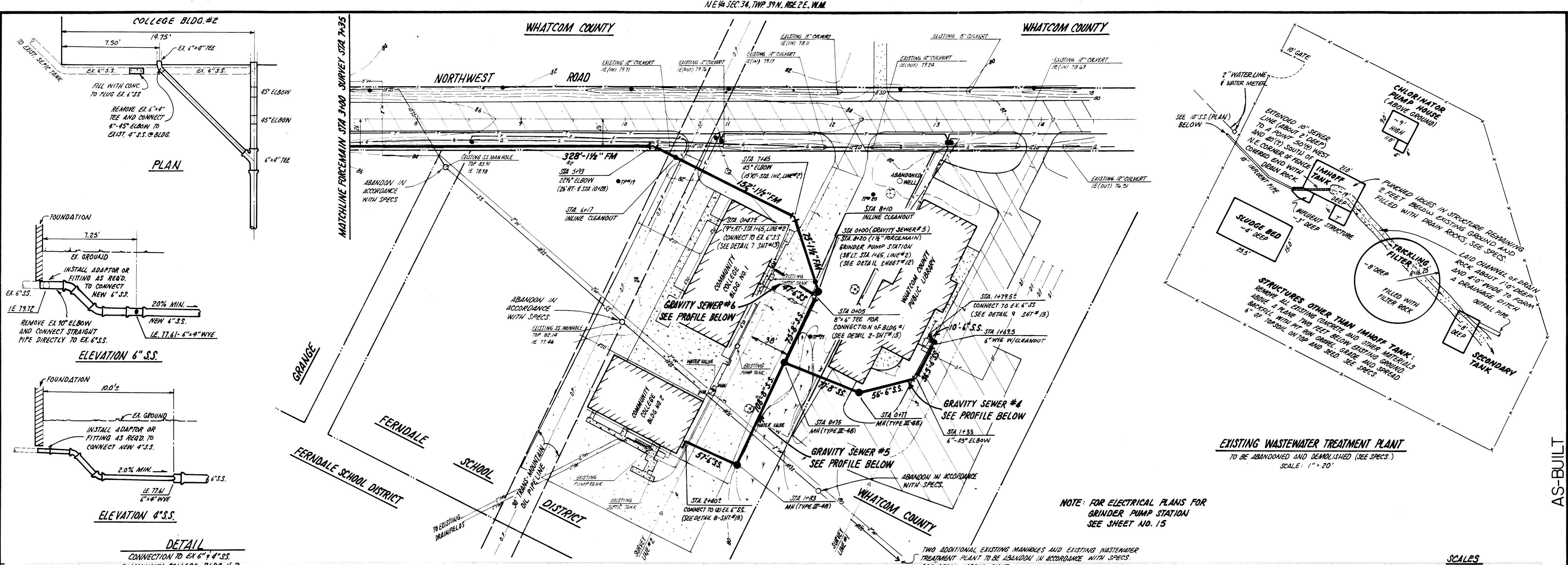
PLAN AND PROFILE
6" FORCEMAIN STA 98+50 TO 106+47
6" GRAVITY SEWERS NOS. 1, 2, 3
1-1/2" FORCEMAIN STA 0+00 TO 3+00

consulting engineers

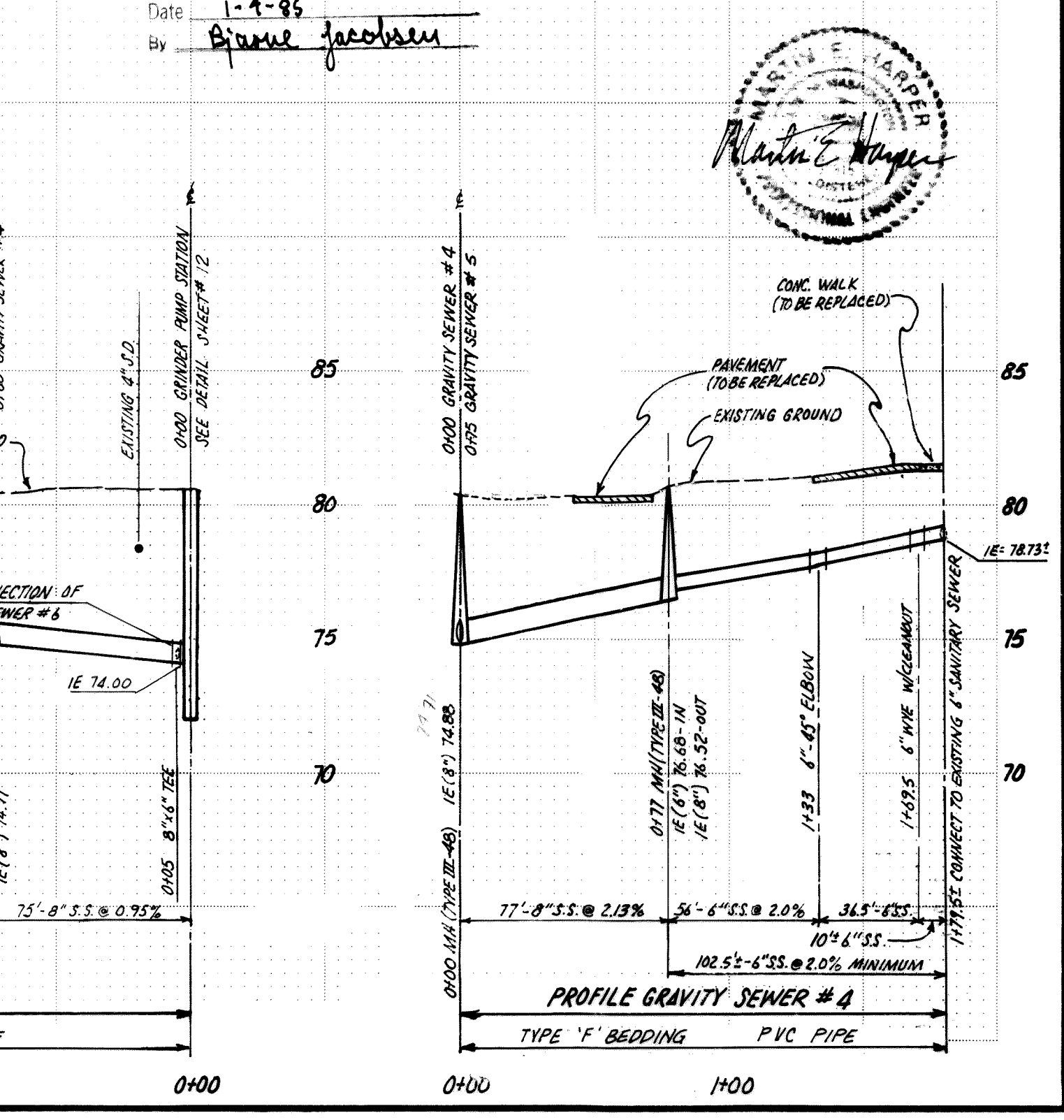
hopper owes



Drawing No. PP-8
Sheet No. 10/16



CONFORMS TO RECORD DOCUMENTS
DATE 1-4-85
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By Brianne Jacobsen



DATE: JUNE 1983
DESIGNED BY: BJ
DRAWN BY: CRL
APPROVED BY: [Signature]

WHATCOM COUNTY, WASHINGTON
NOR BELL NURSING HOME INTERCEPTOR

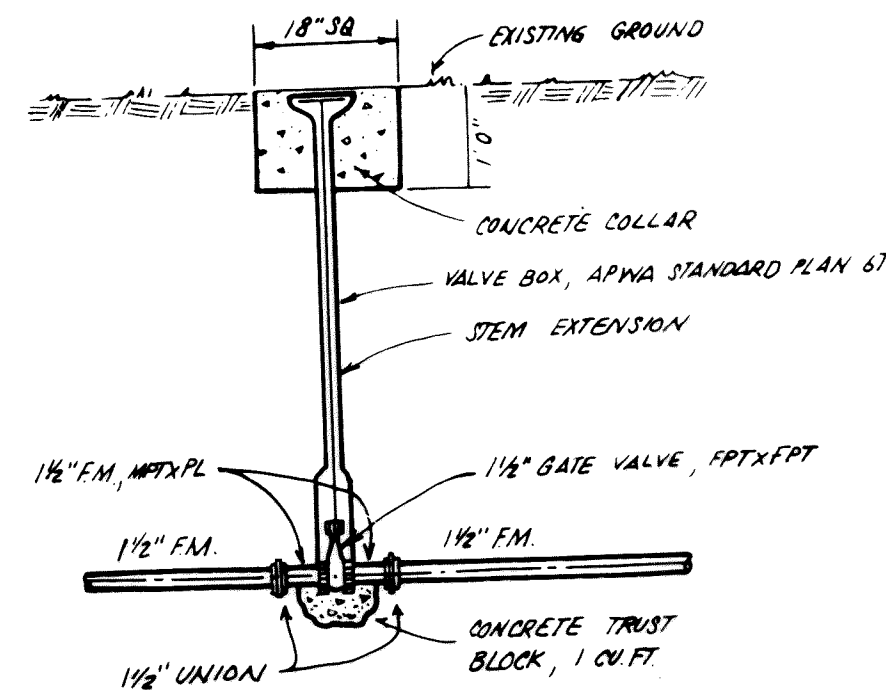
PLAN AND PROFILE
1-1/2" FORCEMAIN STA 3+00 TO 8+20
GRAVITY SEWERS NOS. 4, 5, 6

AS-BUILT

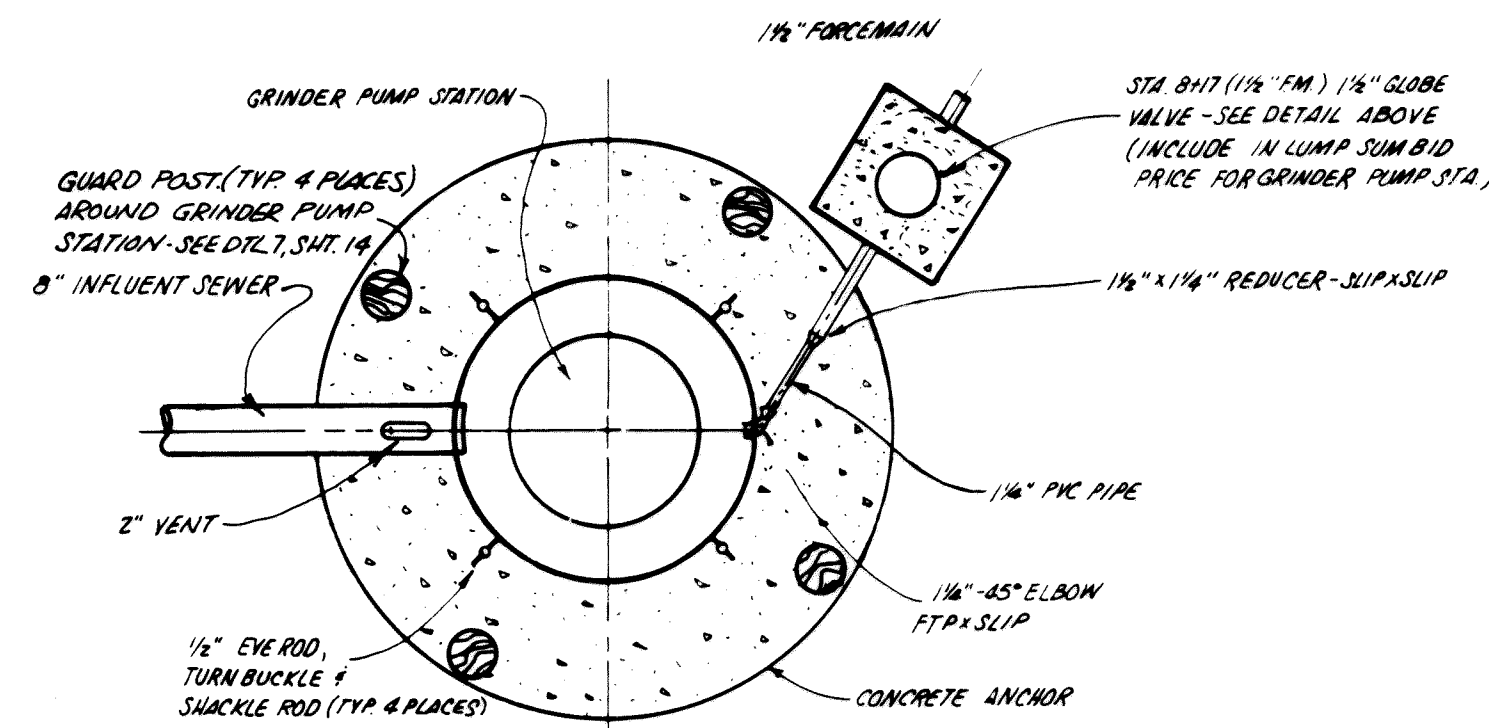
CONSULTING ENGINEERS
hopper owes
[Signature: Brianne Jacobsen]
REGISTERED PROFESSIONAL ENGINEER
NO. 11100
STATE OF WASHINGTON

DWG: 11/30/84
SHEET: 11/16
DATE: 1-4-85
BY: Brianne Jacobsen

DRAWING NO: PP-9
SHEET NO: 11/16

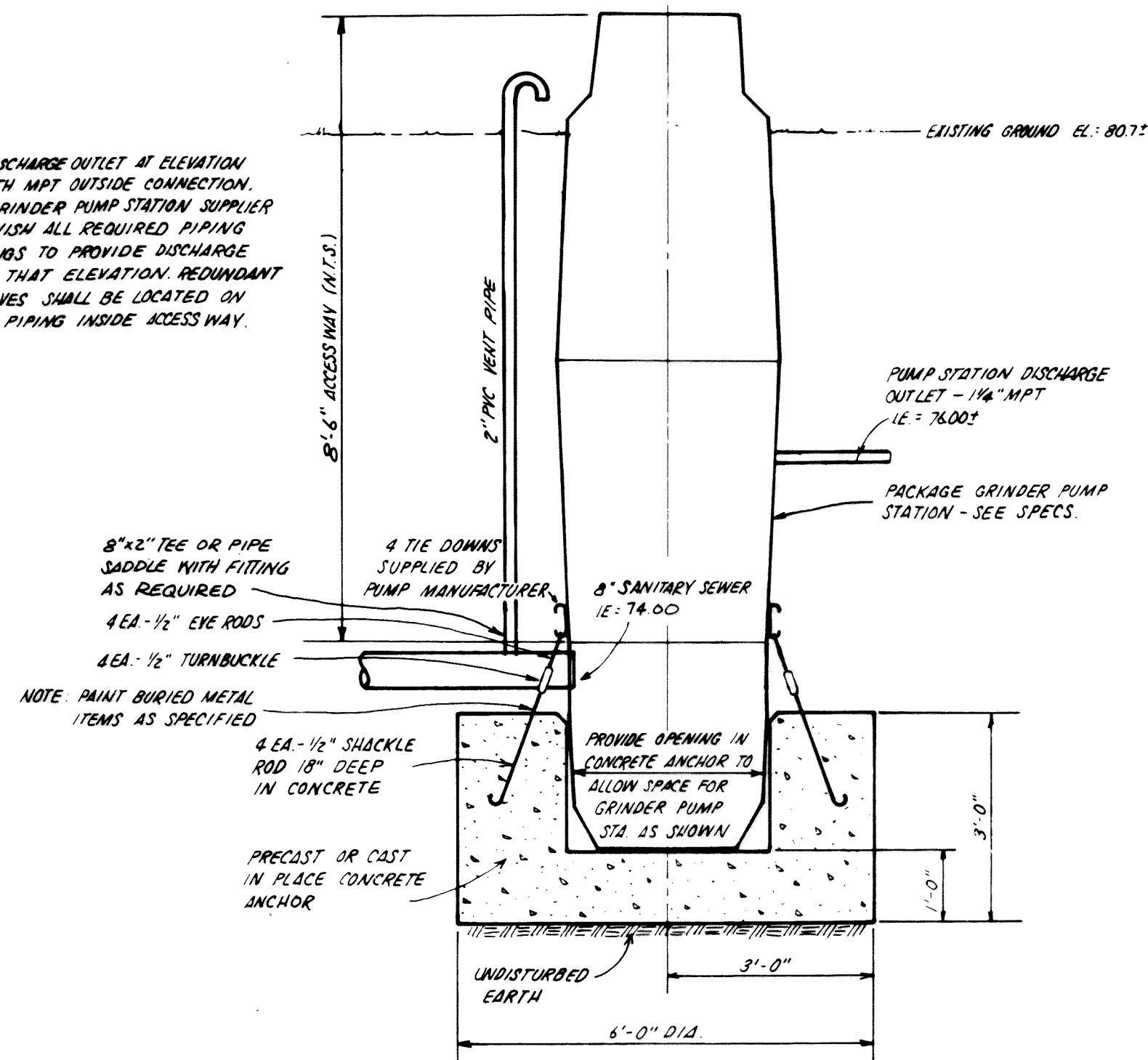


DETAIL
GLOBE VALVE FOR 1 1/2" F.M.
(1 1/2" F.M. - STA 8+17)



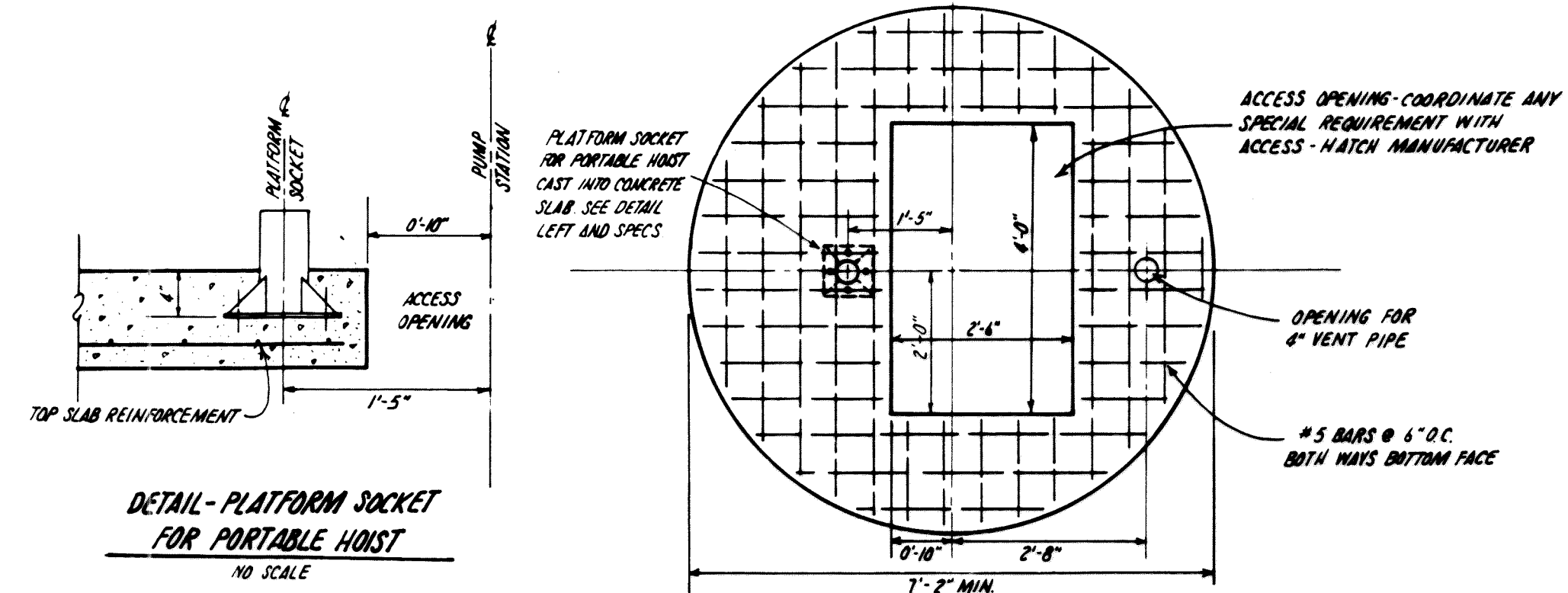
PLAN

NOTE: PROVIDE DISCHARGE OUTLET AT ELEVATION SHOWN WITH MPT OUTSIDE CONNECTION. PACKAGE GRINDER PUMP STATION SUPPLIER SHALL FURNISH ALL REQUIRED PIPING AND FITTINGS TO PROVIDE DISCHARGE OUTLET AT THAT ELEVATION. REDUNDANT CHECK VALVES SHALL BE LOCATED ON DISCHARGE PIPING INSIDE ACCESS WAY.



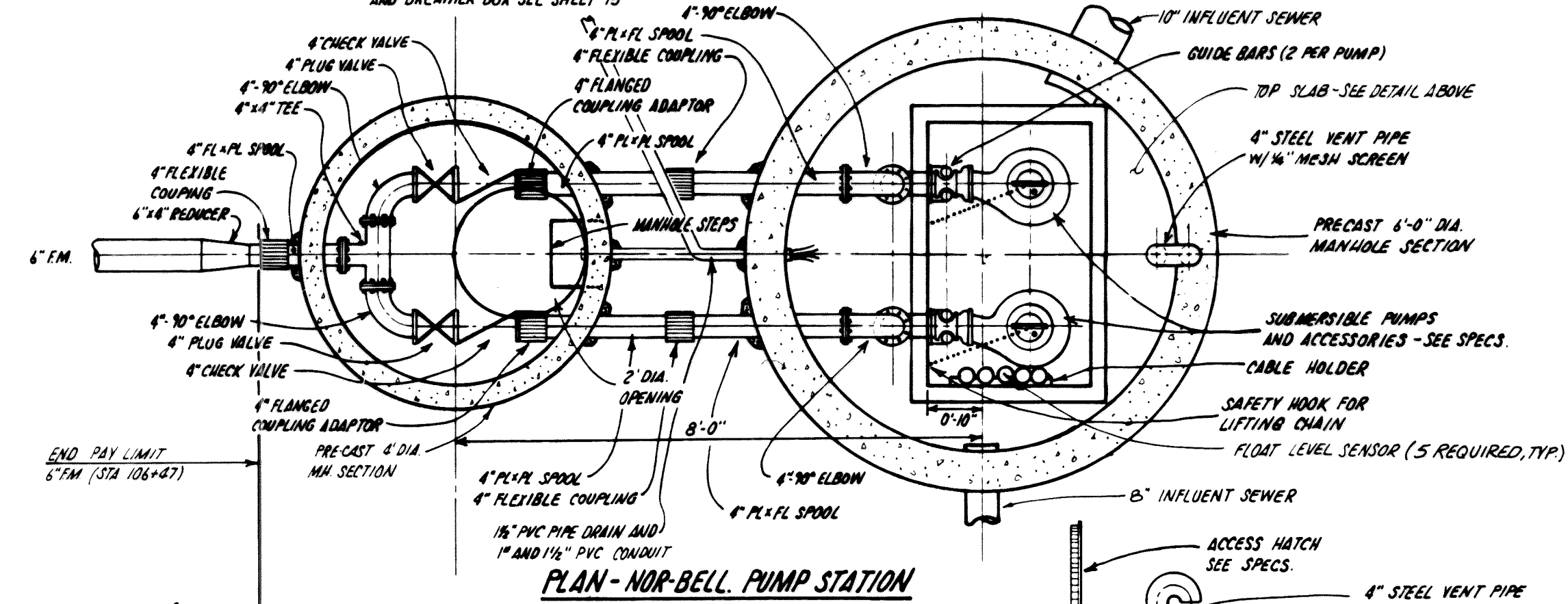
ELEVATION

GRINDER PUMP STATION
N.T.S.

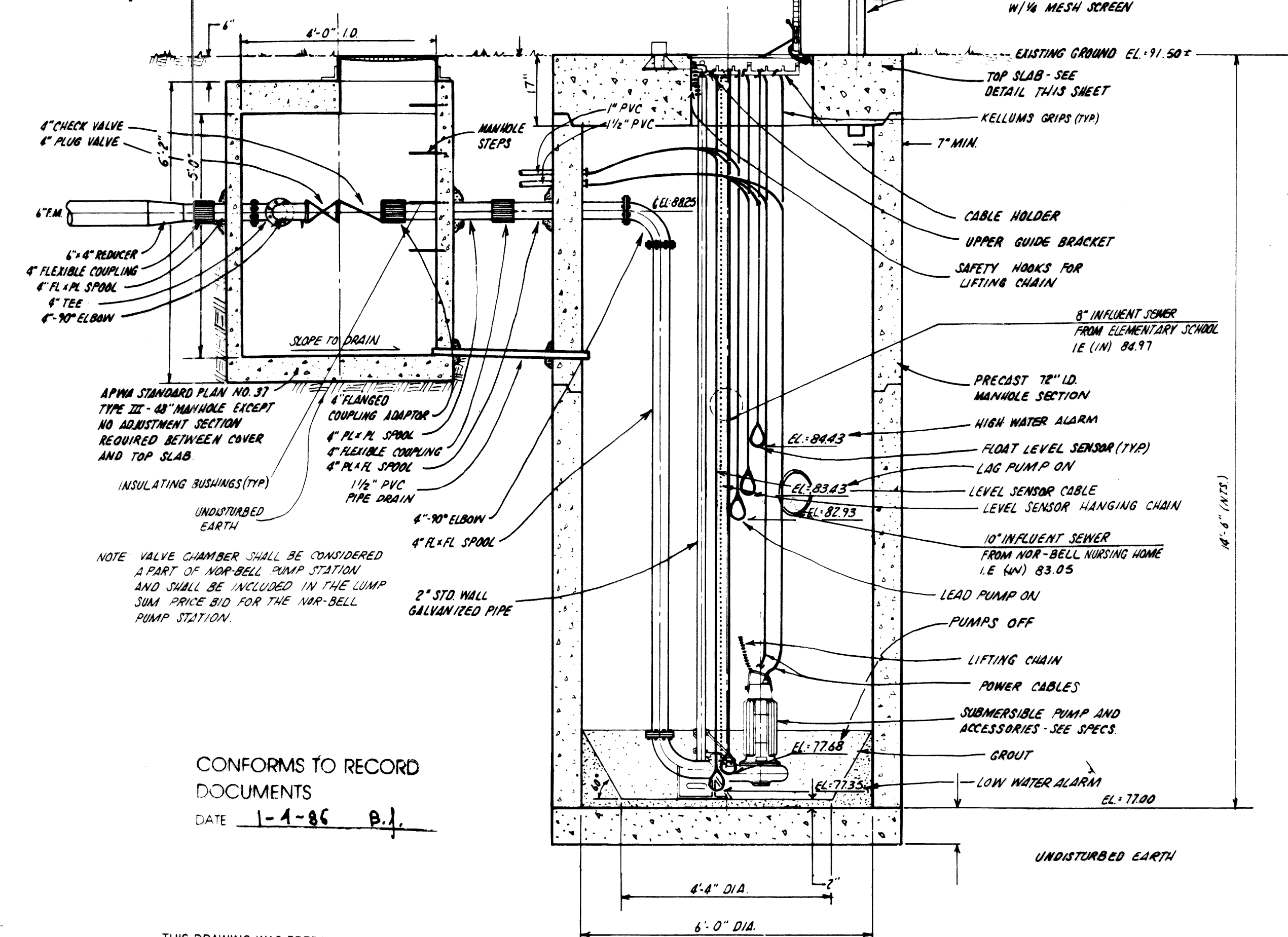


DETAIL - PLATFORM SOCKET
FOR PORTABLE HOIST
NO SCALE

DETAIL - REINFORCED CONCRETE TOP SLAB



PLAN - NOR-BELL PUMP STATION



CONFORMS TO RECORD
DOCUMENTS
DATE 1-4-86 B.J.

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Date 1-4-85
By Brian J. Jansen

SECTIONAL ELEVATION

NOR-BELL PUMP STATION

SCALE: 1/2" = 1'-0"



AS-BUILT

WHATCOM COUNTY, WASHINGTON
NOR BELL NURSING HOME INTERCEPTOR

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Drawing No 0-1
Sheet No 12/16

Sheet Title

Revised: 11/20/84
AS-BUILT (UPDATE AS-BUILT 1-4-85)

DATE 11/20/84

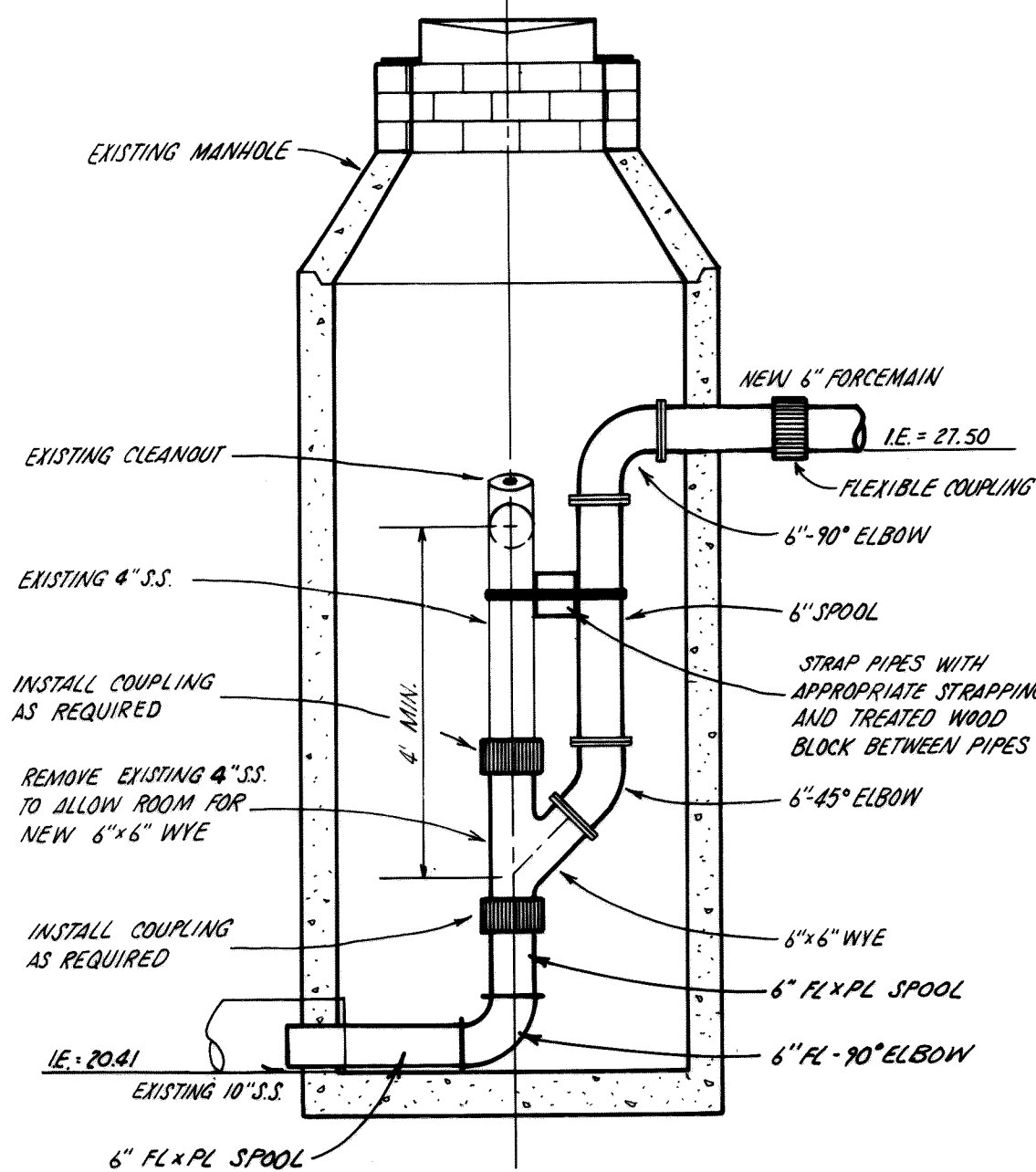
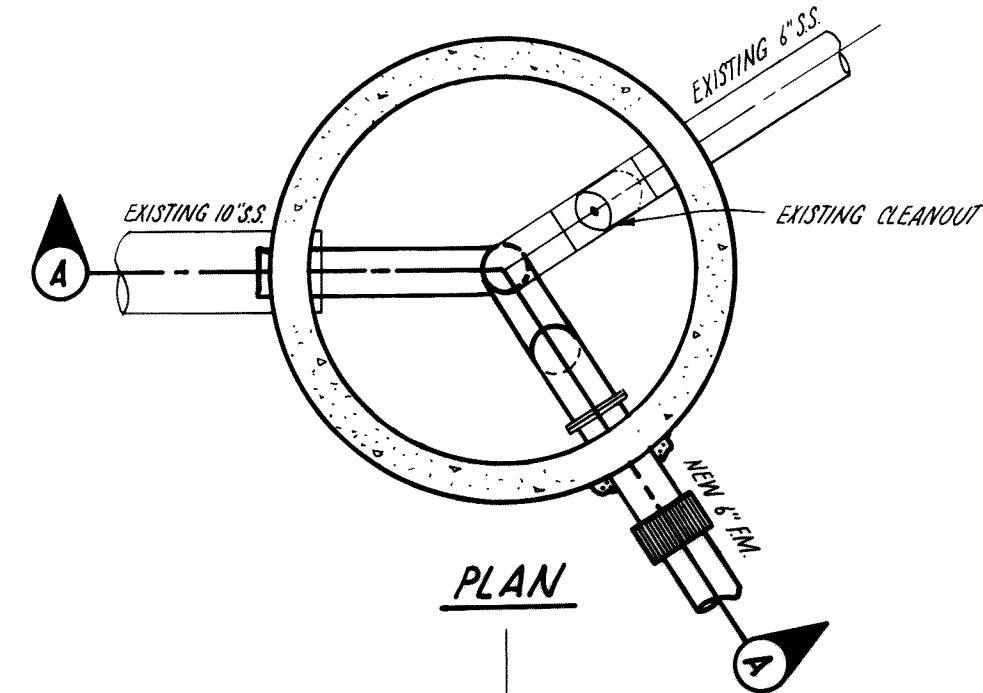
BY Martin E. Jansen

DATE 1-4-85

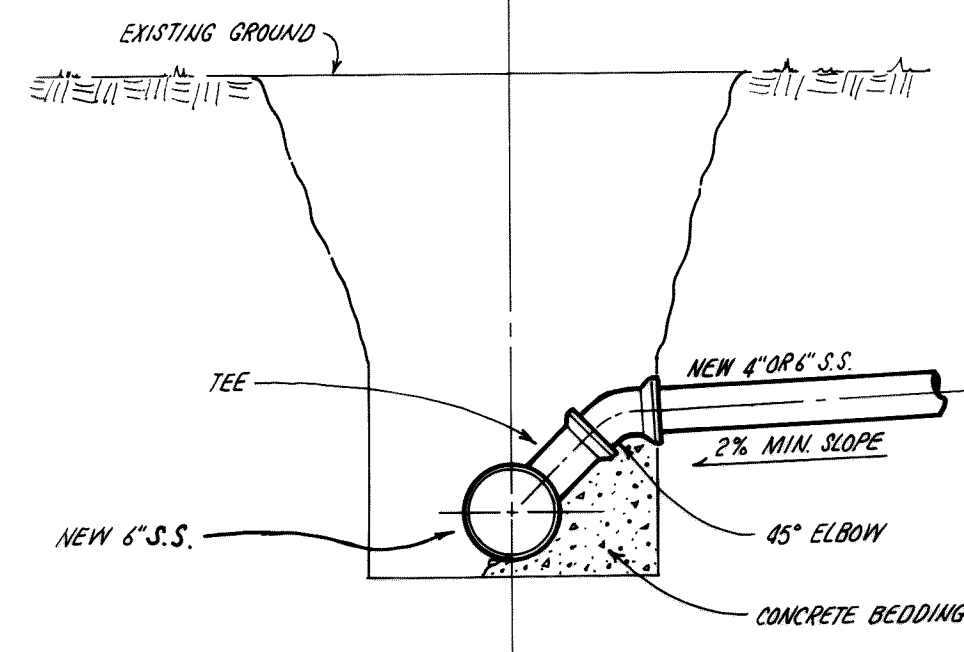
BY Brian J. Jansen

DATE 1-4-85

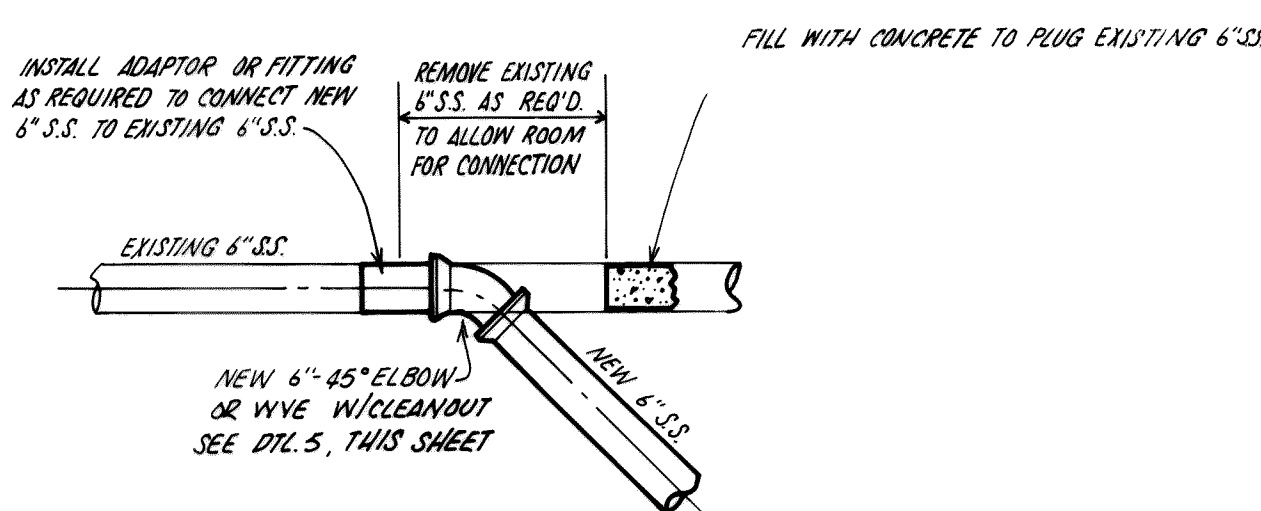
BY Brian J. Jansen



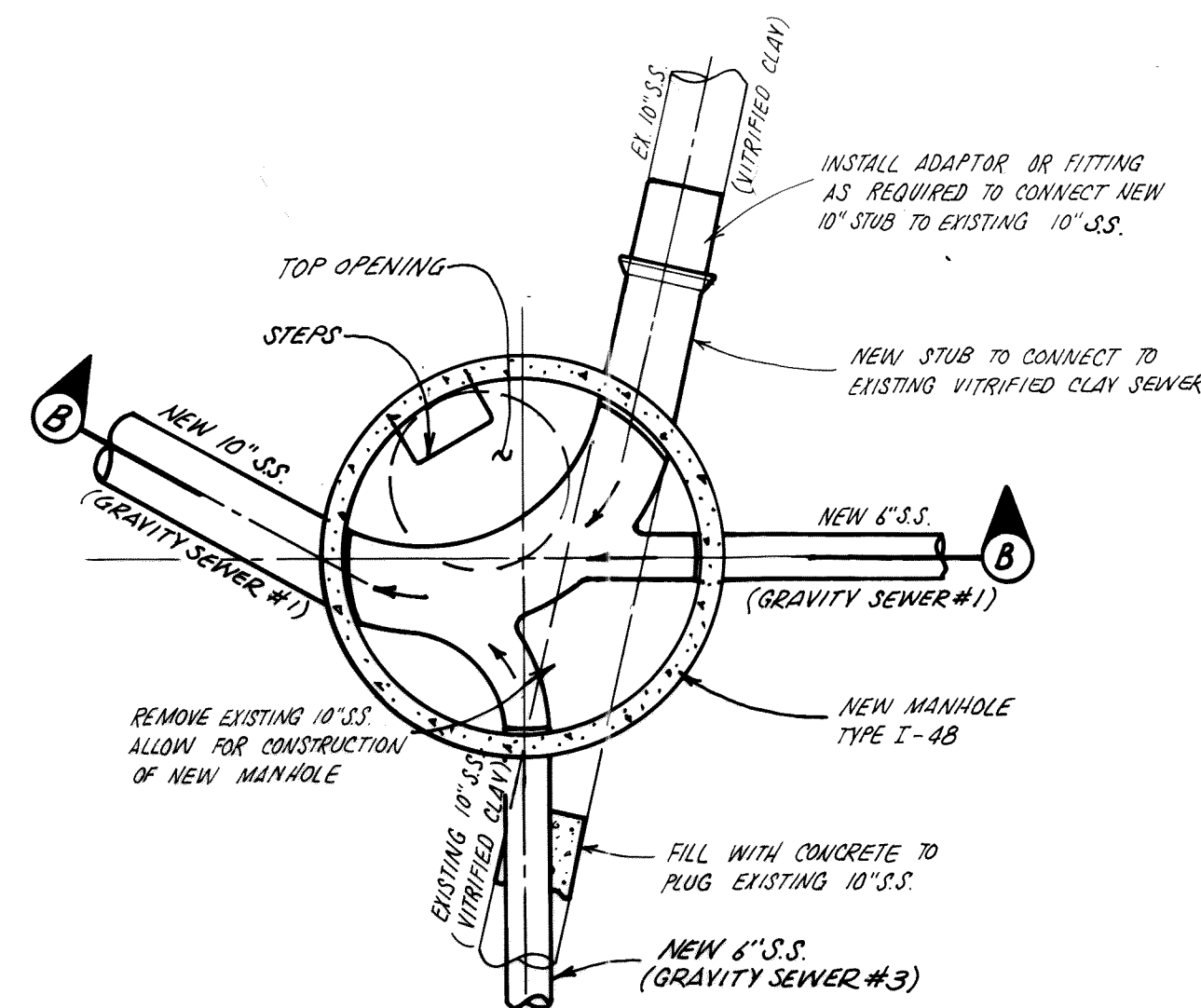
SECTION A-A
DETAIL ①
CONNECTION TO MANHOLE
AT AXTON ROAD PUMP STATION
6\"/>



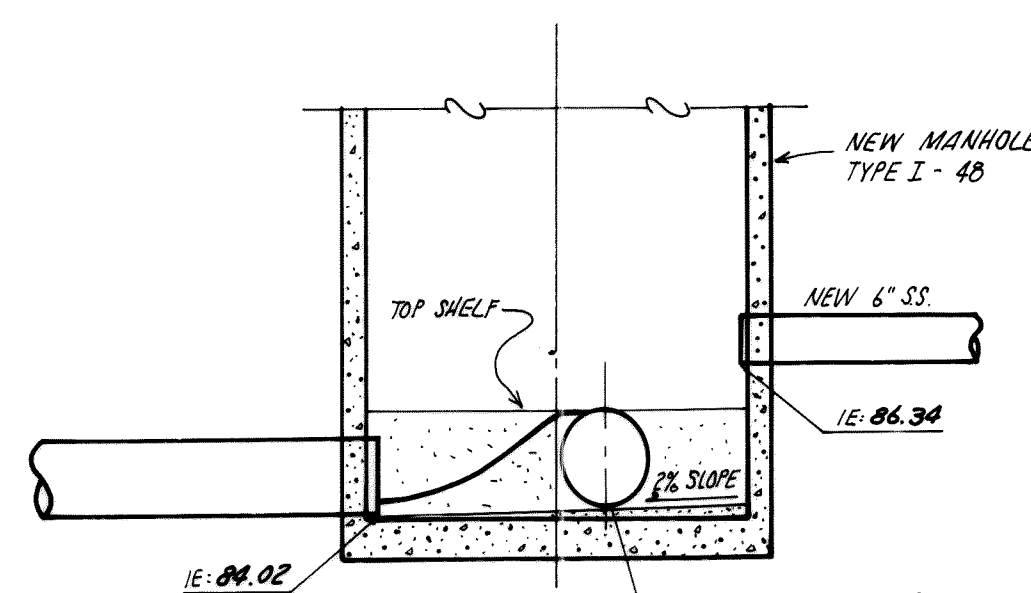
DETAIL ②
DIRECT CONNECTION BETWEEN
TWO GRAVITY SEWERS
(GRAVITY SEWER #2, STA. 1+46
GRAVITY SEWER #3, STA. 0+05)
NO SCALE



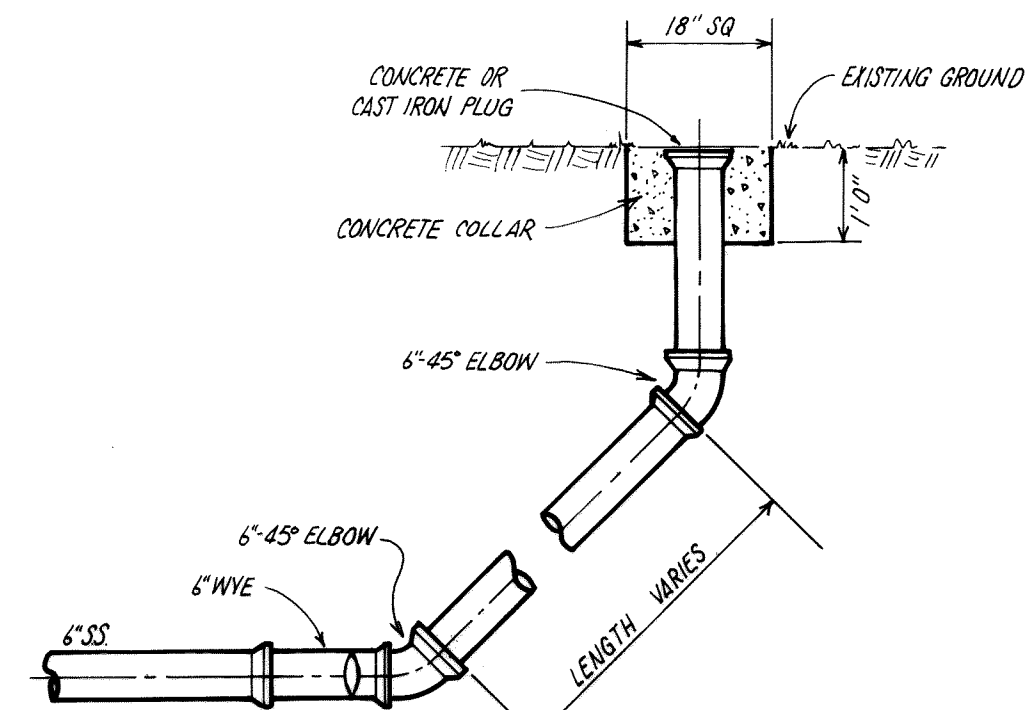
DETAIL ③
PLAN-CONNECTION TO EXISTING 6\"/>



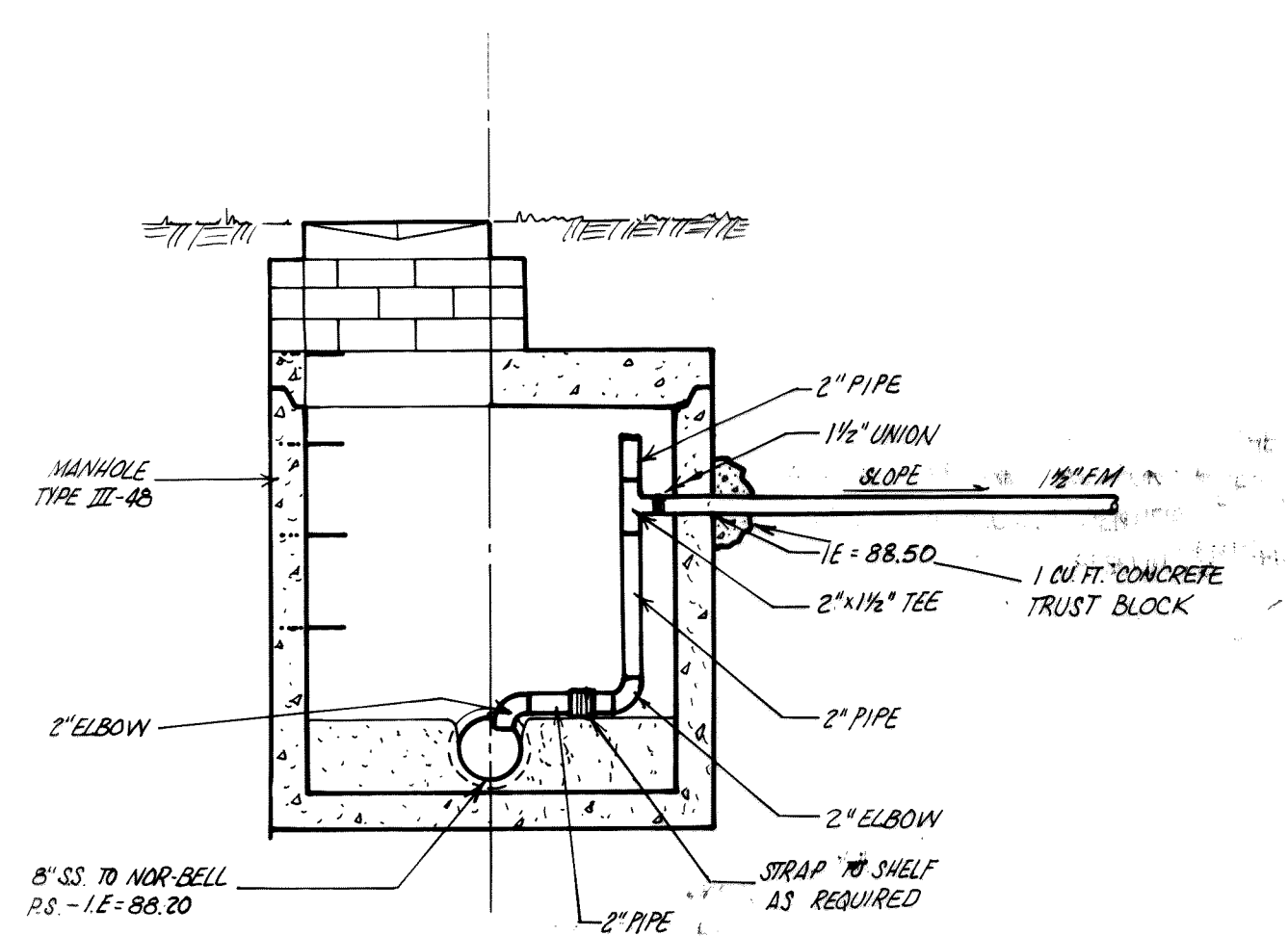
PLAN



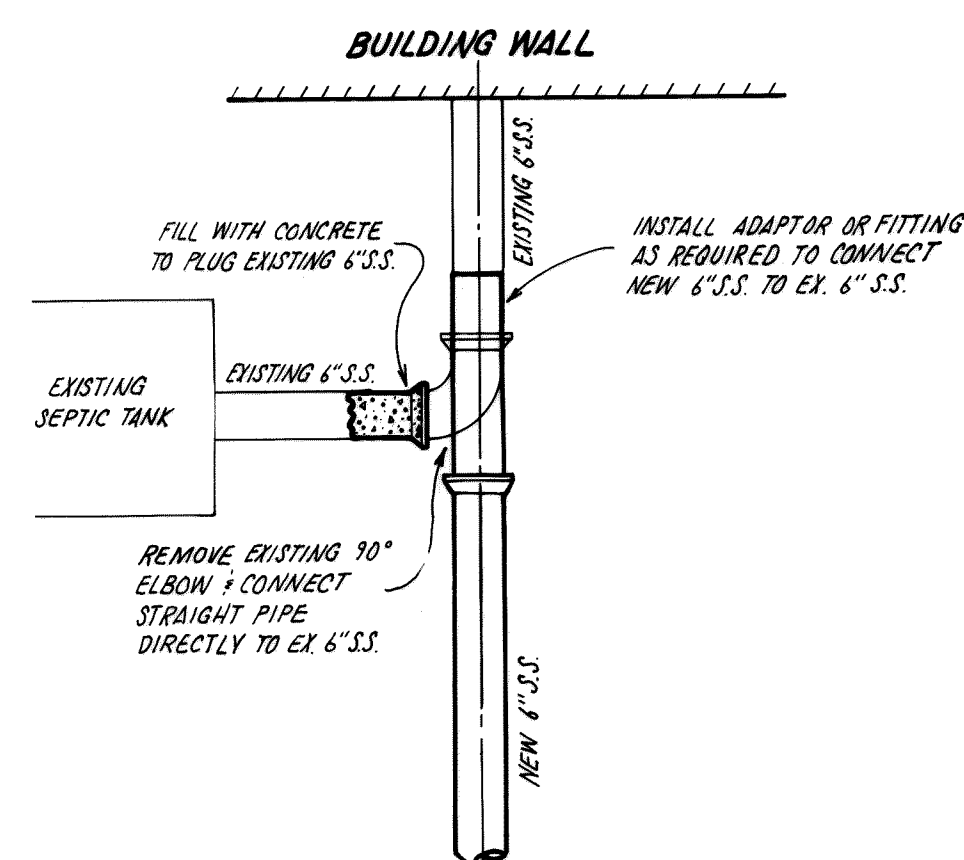
SECTION B-B
DETAIL ④
CONNECTION OF EXISTING 10\"/>



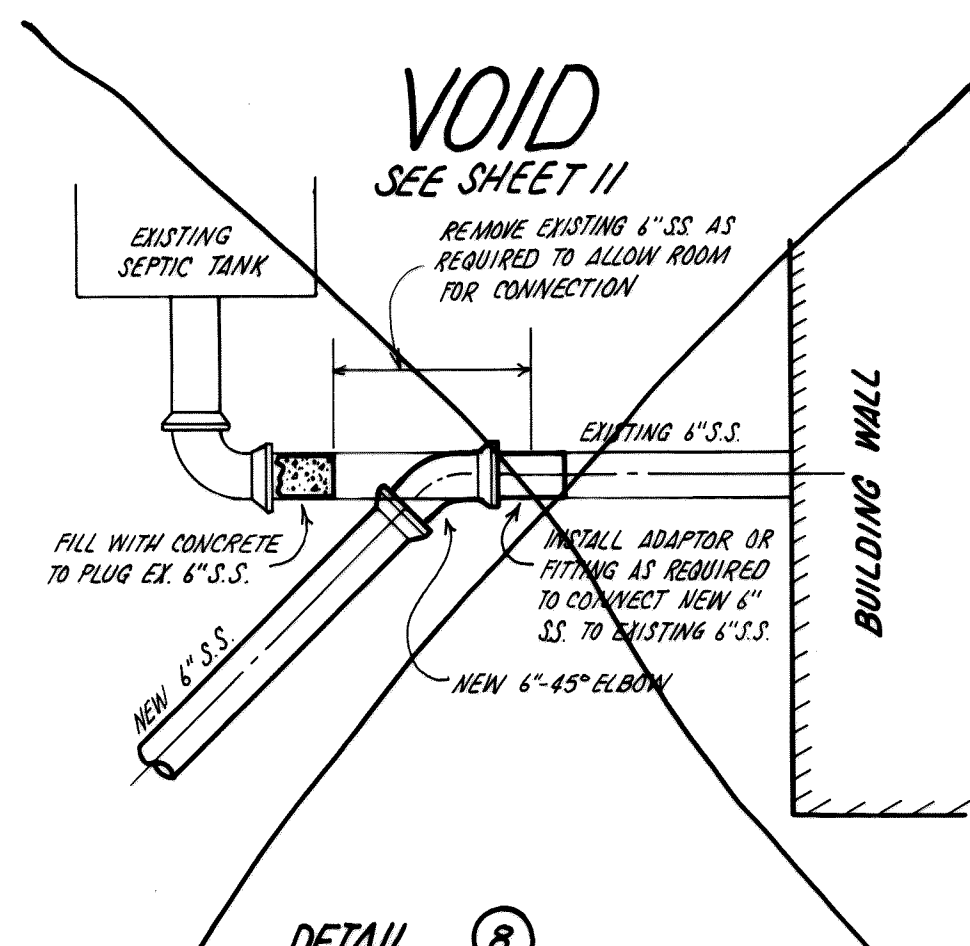
DETAIL ⑤
TYPICAL 6\"/>



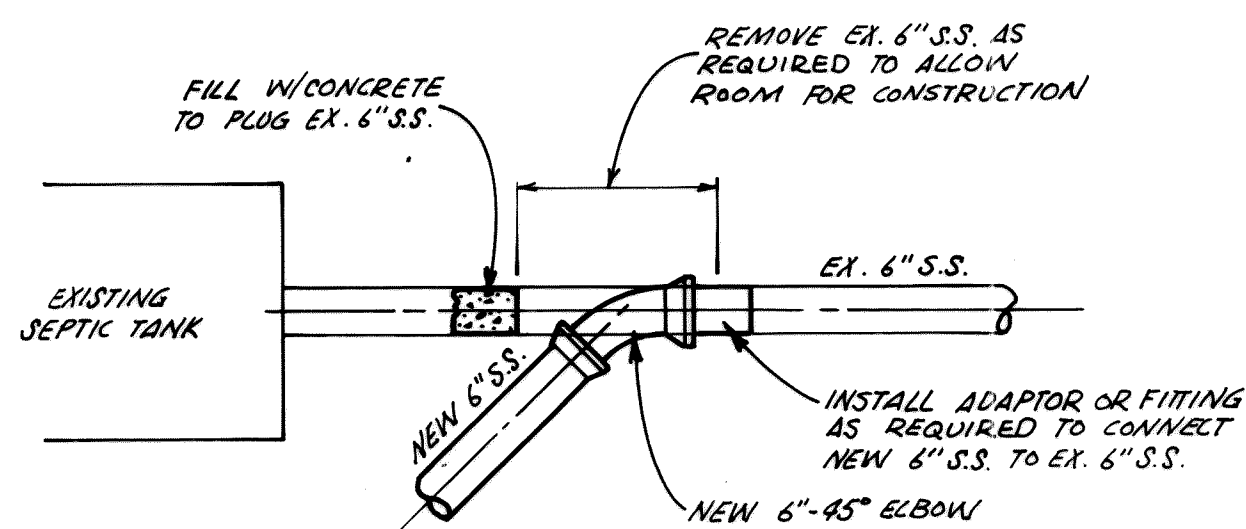
DETAIL ⑥
CONNECTION OF 1 1/2\"/>



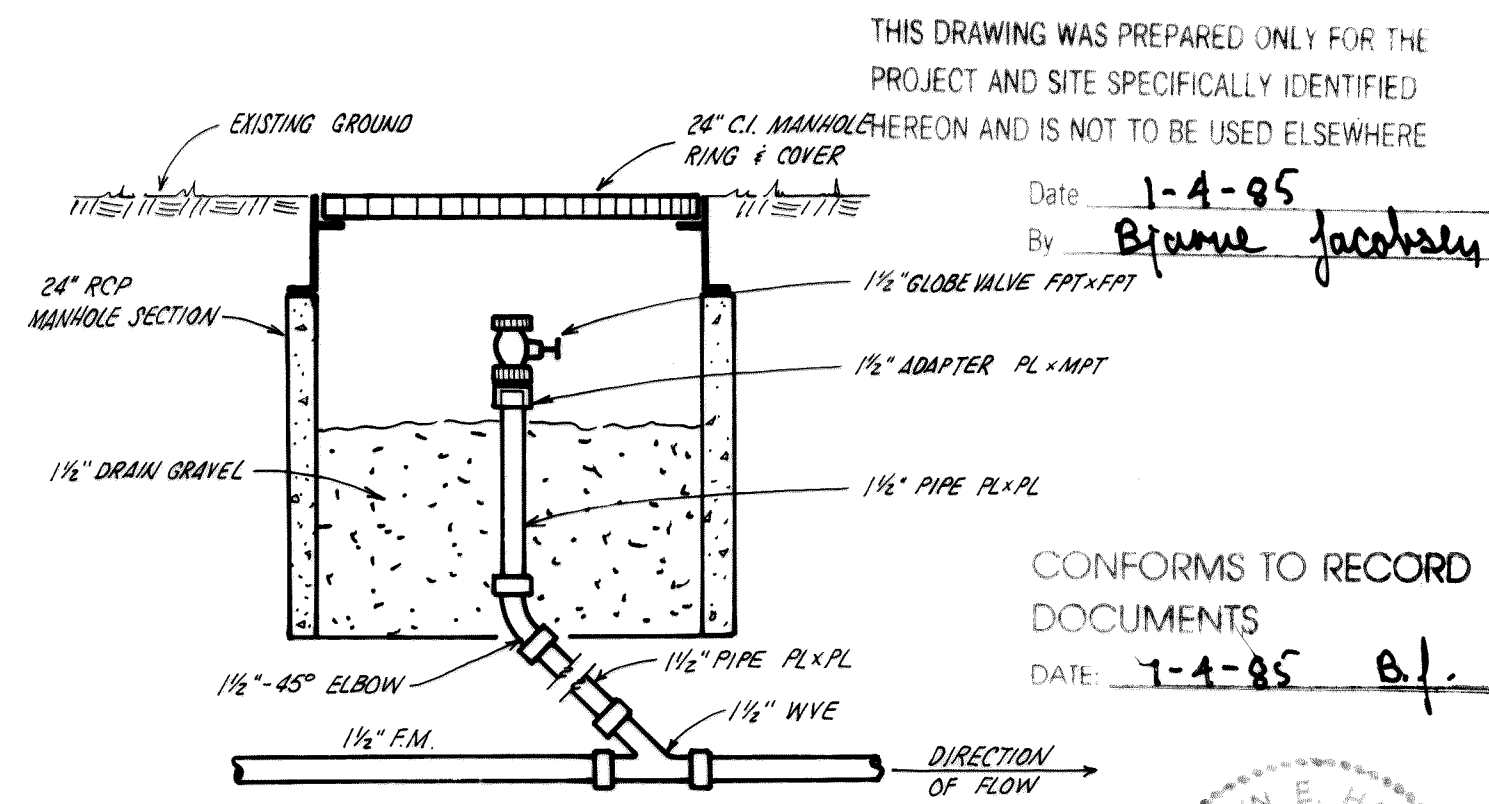
DETAIL ⑦
PLAN-CONNECTION TO EXISTING 6\"/>



DETAIL ⑧
PLAN-CONNECTION TO EXISTING 6\"/>



DETAIL ⑨
PLAN-CONNECTION TO EXISTING
6\"/>



DETAIL ⑩
TYPICAL IN-LINE CLEANOUT
FOR 1 1/2\"/>

AS-BUILT

WHATCOM COUNTY, WASHINGTON
NOR BELL NURSING HOME INTERCEPTOR

MISCELLANEOUS DETAILS

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JUNE 1983

Designed By BJ

Drawn By CRL

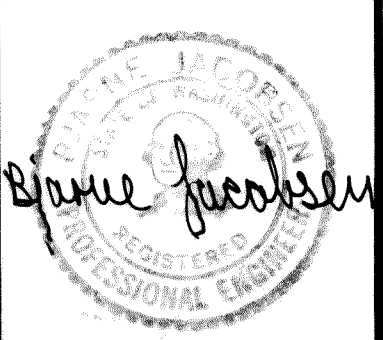
Approved By

00217.013 2.6.00 K4

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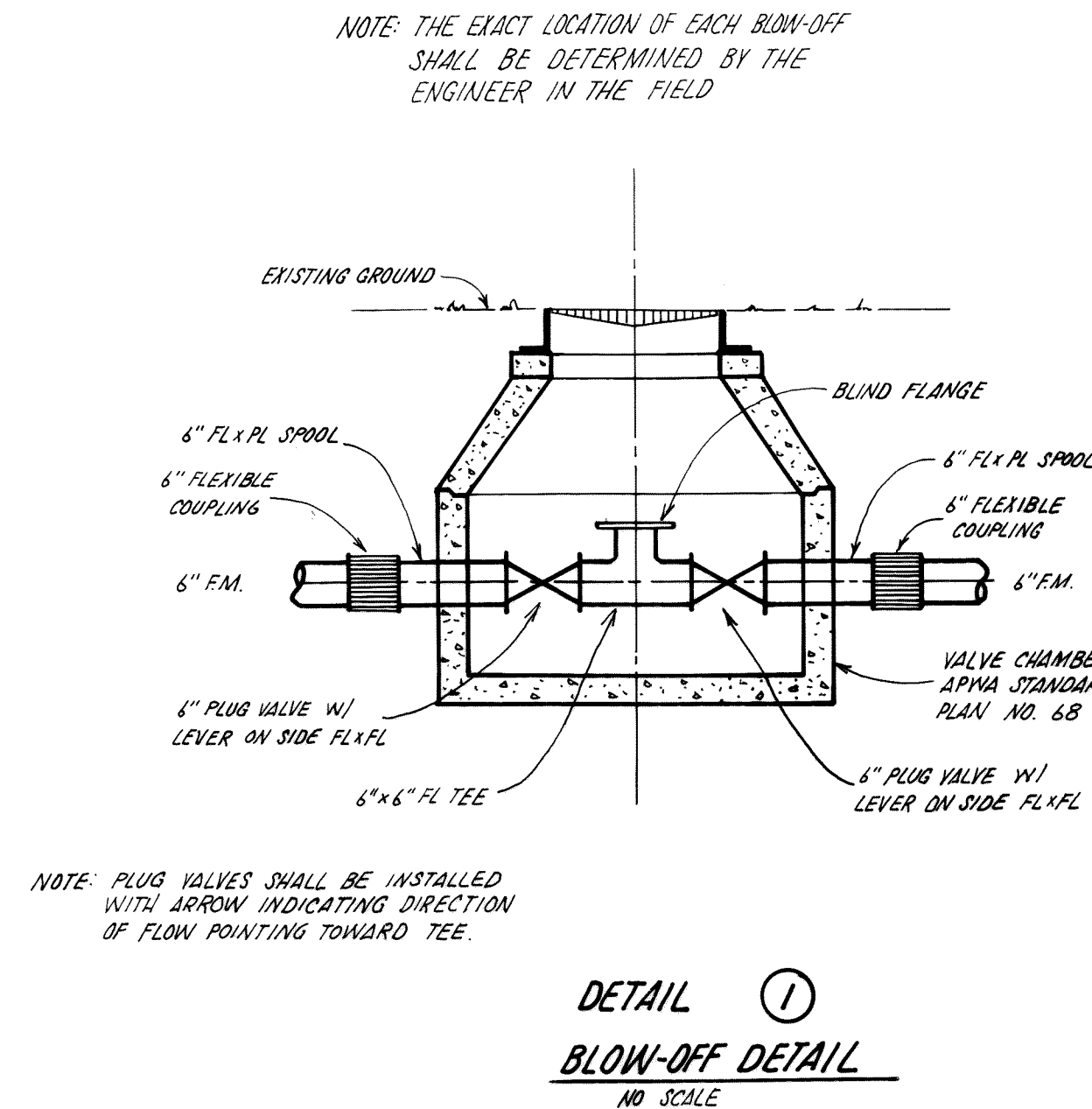
Date 1-4-85
By Blaine Jacobsen

CONFORMS TO RECORD DOCUMENTS
DATE 7-4-85 B.I.

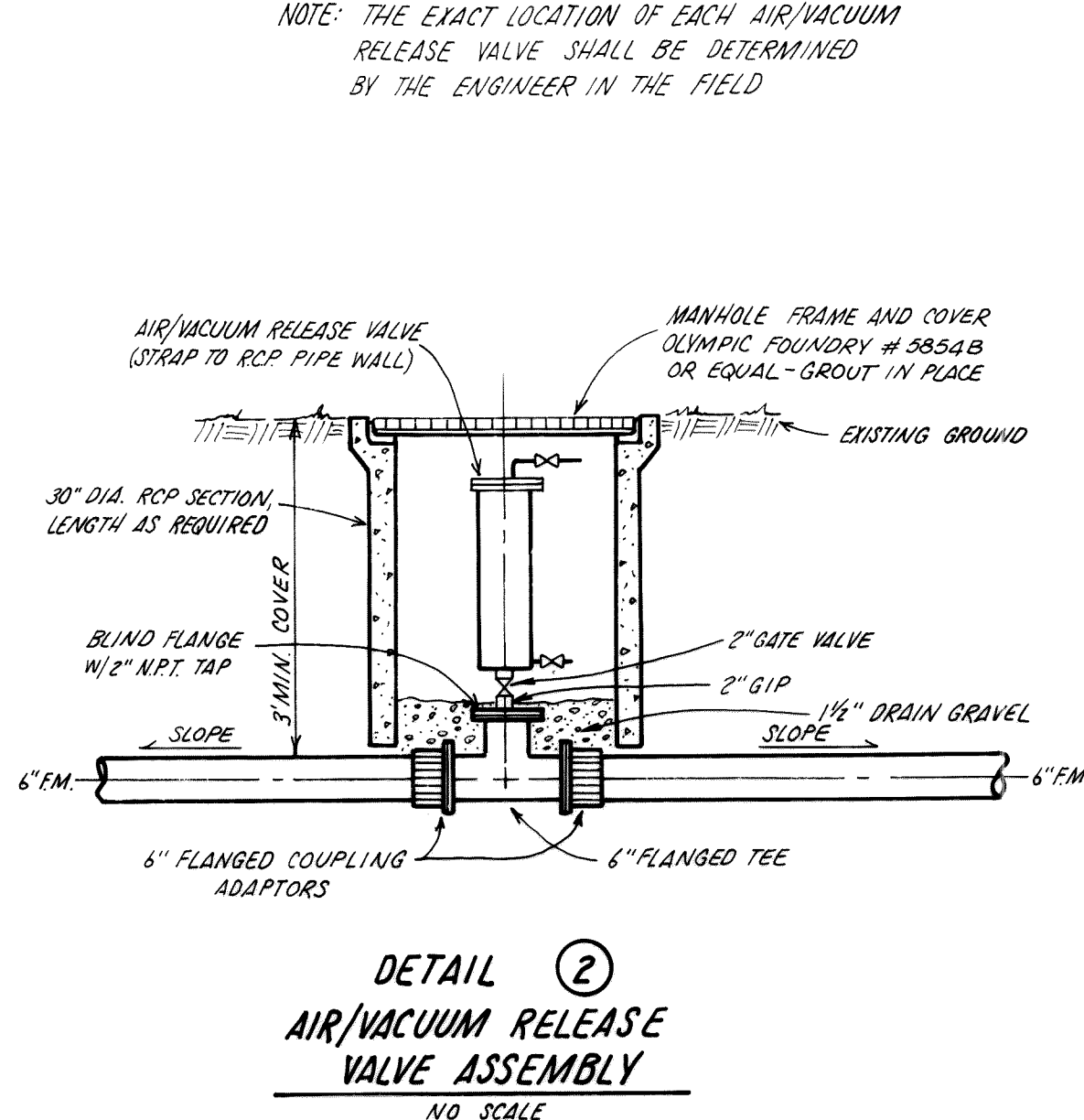


Drawing No D-2

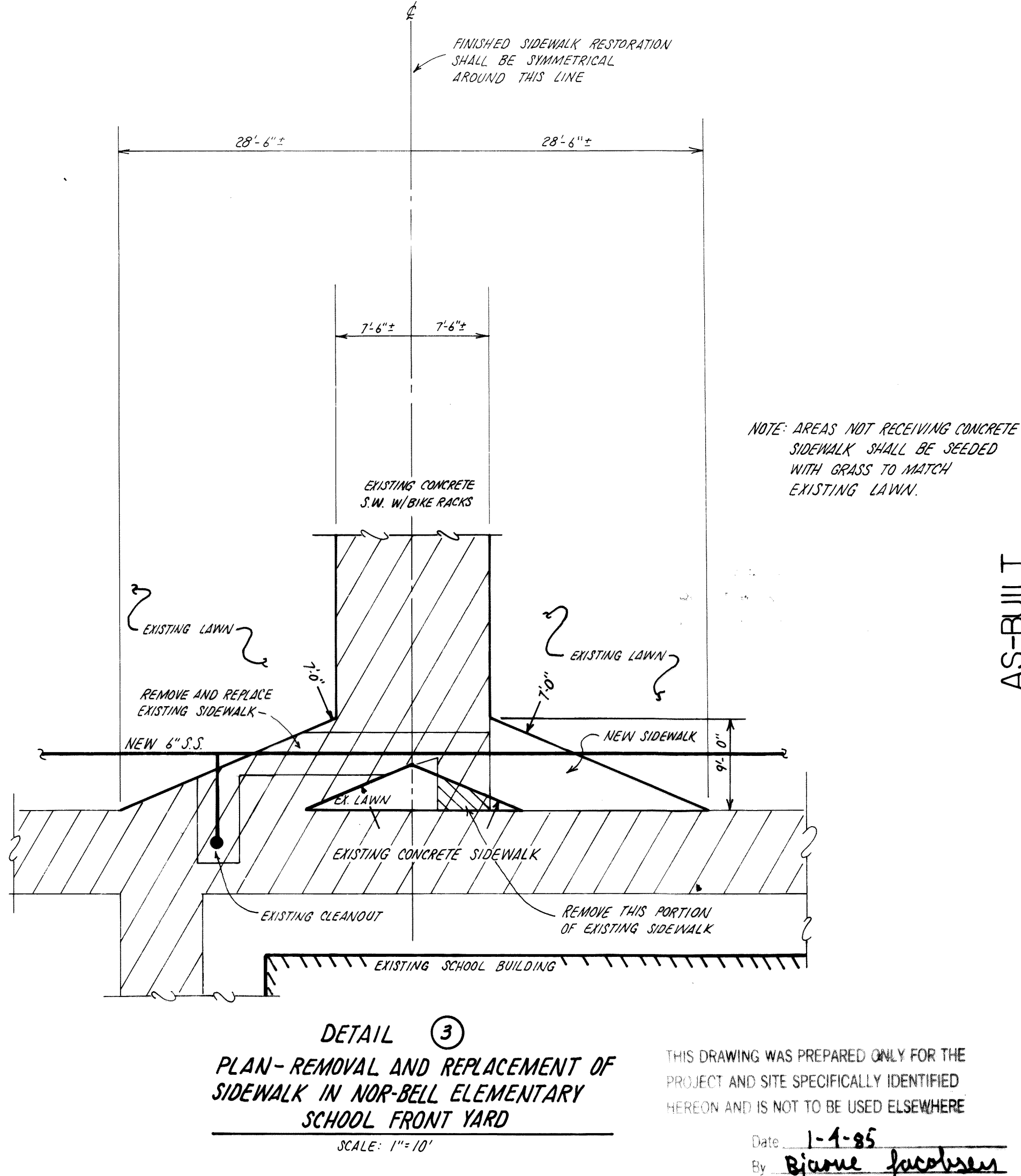
Sheet No 13/16



DETAIL ①
BLOW-OFF DETAIL
NO SCALE



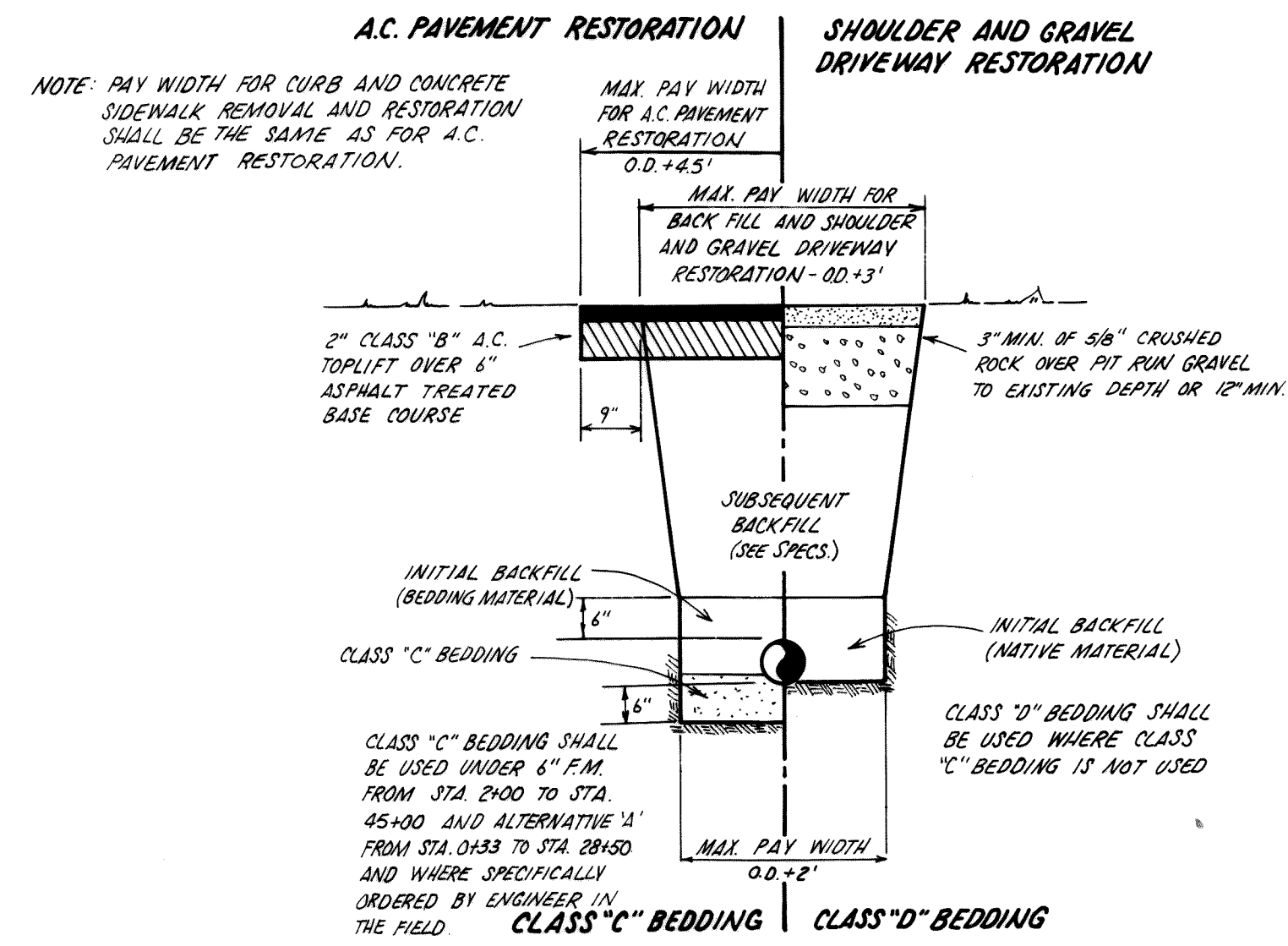
DETAIL ②
AIR/VACUUM RELEASE
VALVE ASSEMBLY
NO SCALE



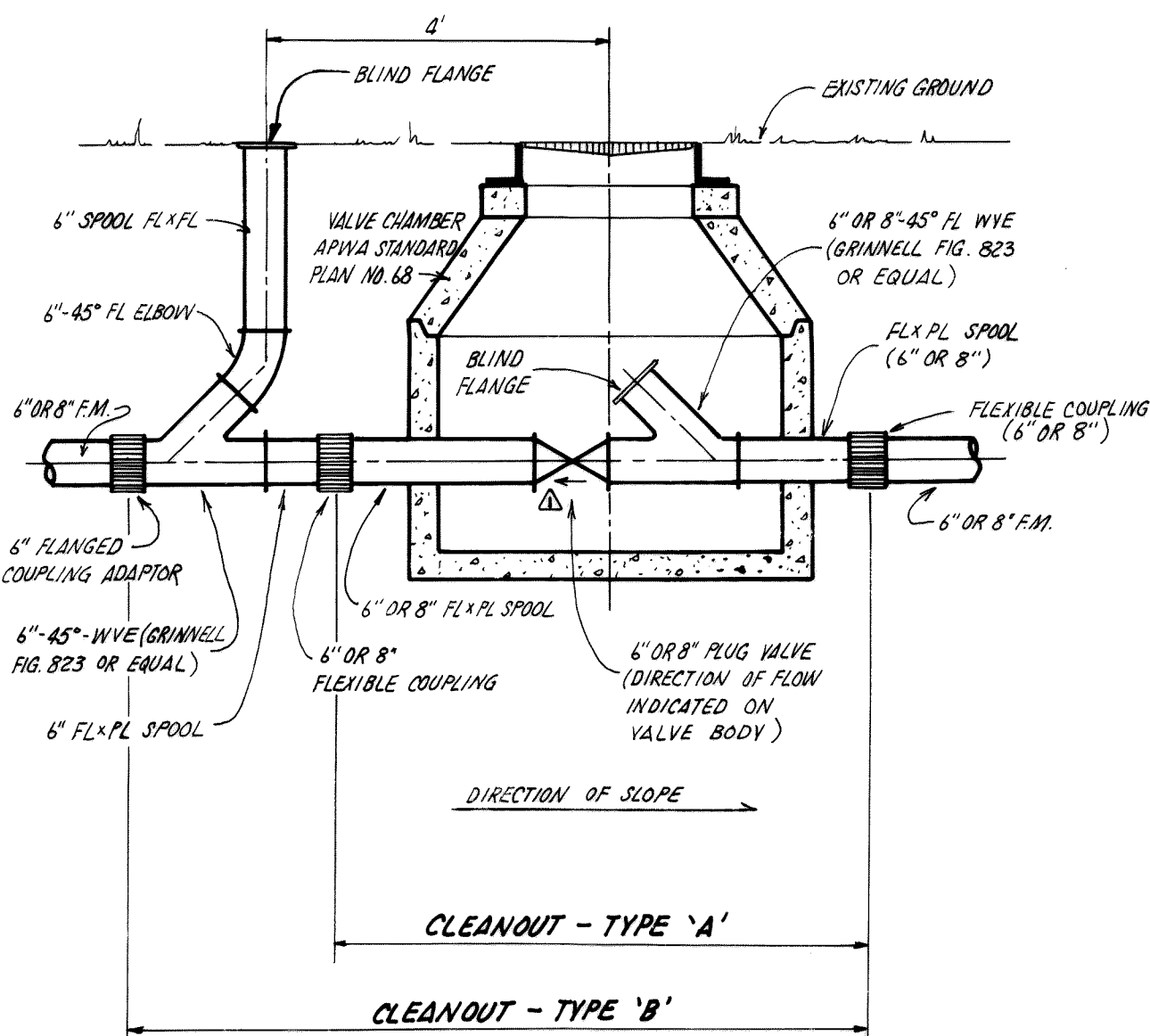
DETAIL ③
PLAN-REMOVAL AND REPLACEMENT OF
SIDEWALK IN NOR-BELL ELEMENTARY
SCHOOL FRONT YARD
SCALE: 1"=10'

THIS DRAWING WAS PREPARED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON AND IS NOT TO BE USED ELSEWHERE

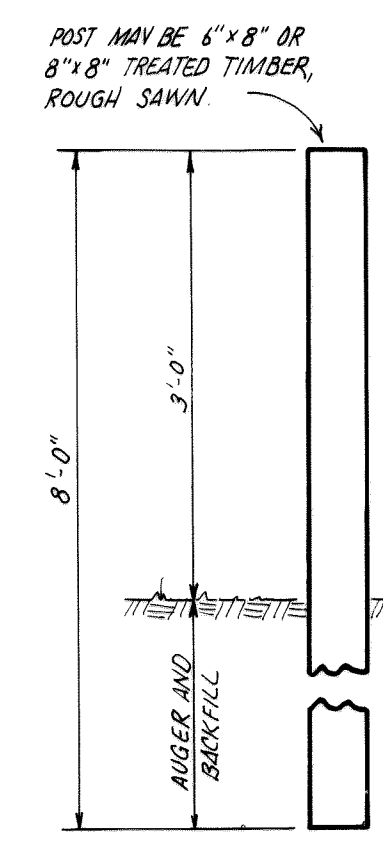
Date: 1-4-85
By: Blaine Jacobsen



DETAIL ④
TYPICAL TRENCH SECTION
NO SCALE



DETAIL ⑥
CLEANOUT FOR 6" OR 8" FORCEMAIN
NOT TO SCALE



DETAIL ⑦
GUARD POST DETAIL
AROUND 100 GALLON FUEL TANK AT MILK HOUSE & GRINDER PUMP STATION
NOT TO SCALE

FORMS TO RECORD DOCUMENTS
DATE: 1-4-85
By: Martin E. Harper

FITTING OR BRANCH SIZE	THRUST BLOCK BEARING AREA IN SQ. FEET				
	90°	45°	22½°	11¼°	TEE-DEAD END
1½"	1.0	1.0	1.0	1.0	1.0
6"	4.0	2.0	1.0	1.0	4.0
8"	6.5	4.0	2.0	1.0	6.5

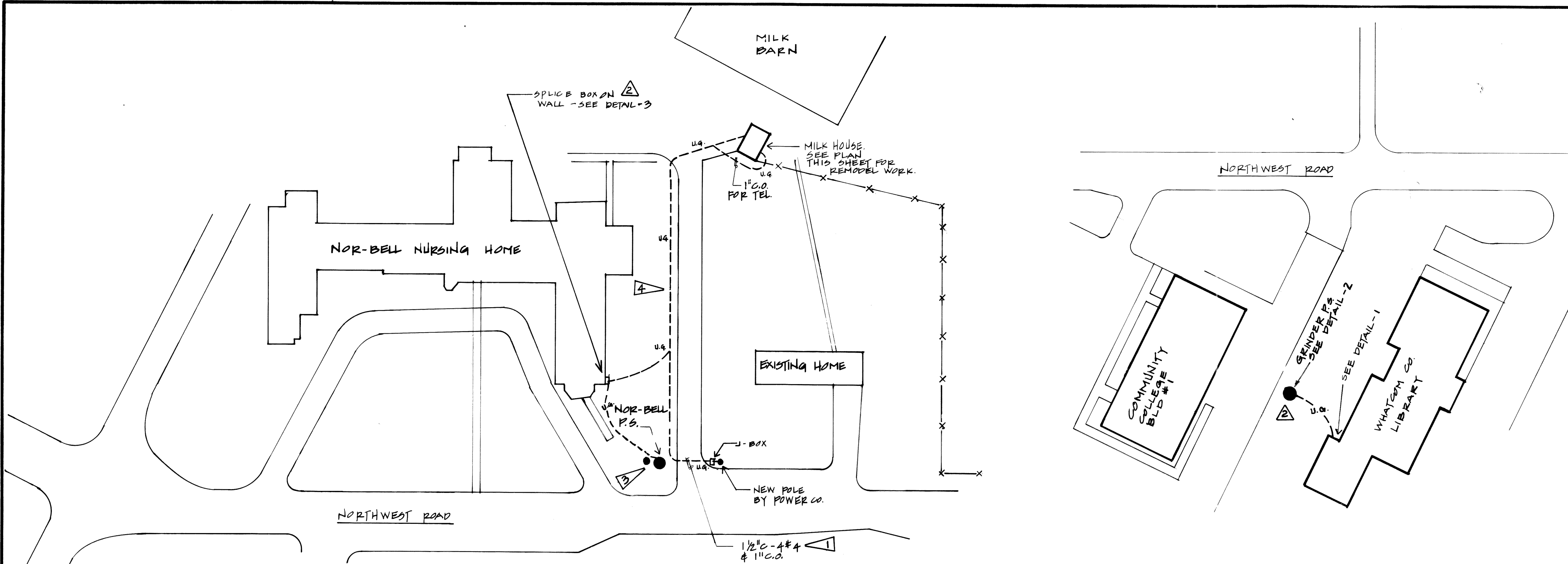
* BASED UPON 100 P.S.I. TEST PRESSURE AND 1000 P.S.I. SOIL BEARING PRESSURE

NOTE: FOR CONCAVE VERTICAL BENDS USE HORIZONTAL TYPE THRUST BLOCKING

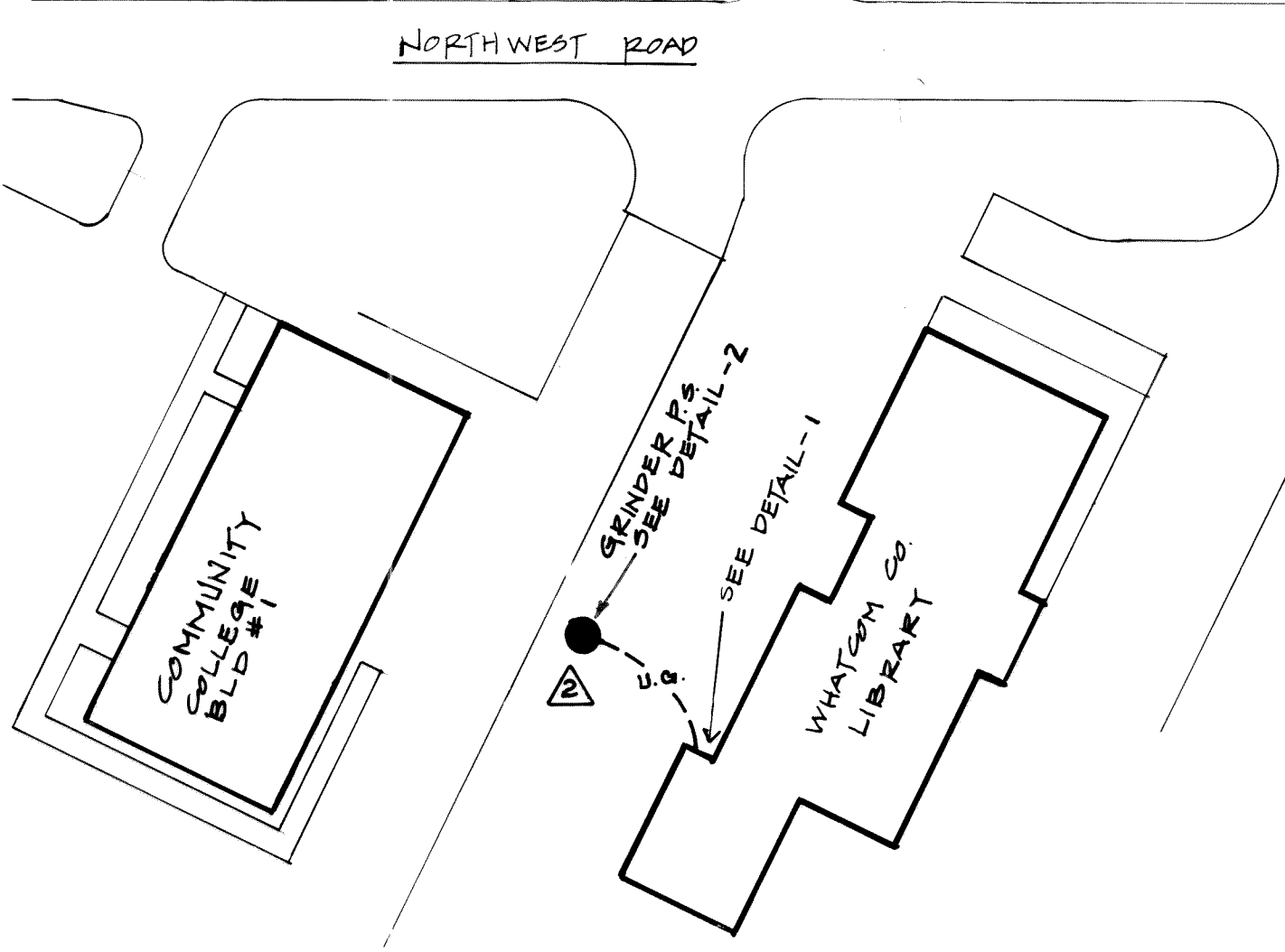
PIPE DIA. INCHES	BLOCKING FOR 11¼° - 22½° - 45° VERTICAL BENDS				
	VERTICAL BEND DEGREES	NO. OF CU. FT. OF CONC. BLOCKING	SIZE OF CURVE FEET	DIA. OF SHANKLE RODS - INCHES	DEPTH OF FOOTING CONCRETE - FEET
1½"	11¼°	1.0	1.0	½	0.75
	22½°	1.0	1.0	½	0.75
	45°	2.0	1.3	½	0.75
6"	11¼°	3.0	1.4	¾	1.25
	22½°	4.0	1.6	¾	1.25
	45°	2.2	2.8	¾	1.25
8"	11¼°	5	1.7	1	1.50
	22½°	16	2.5	1	1.50
	45°	40	3.4	1	1.50

* BASED UPON 100 P.S.I. TEST PRESS

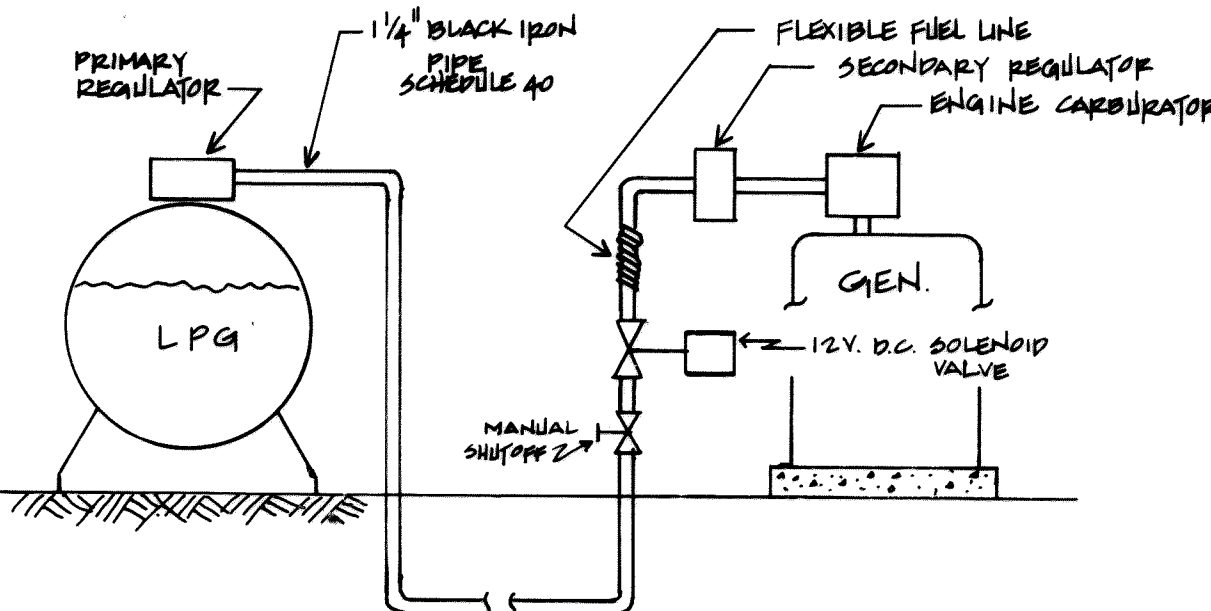
NOTE: PAINT BURIED METAL ITEMS AS SPECIFIED



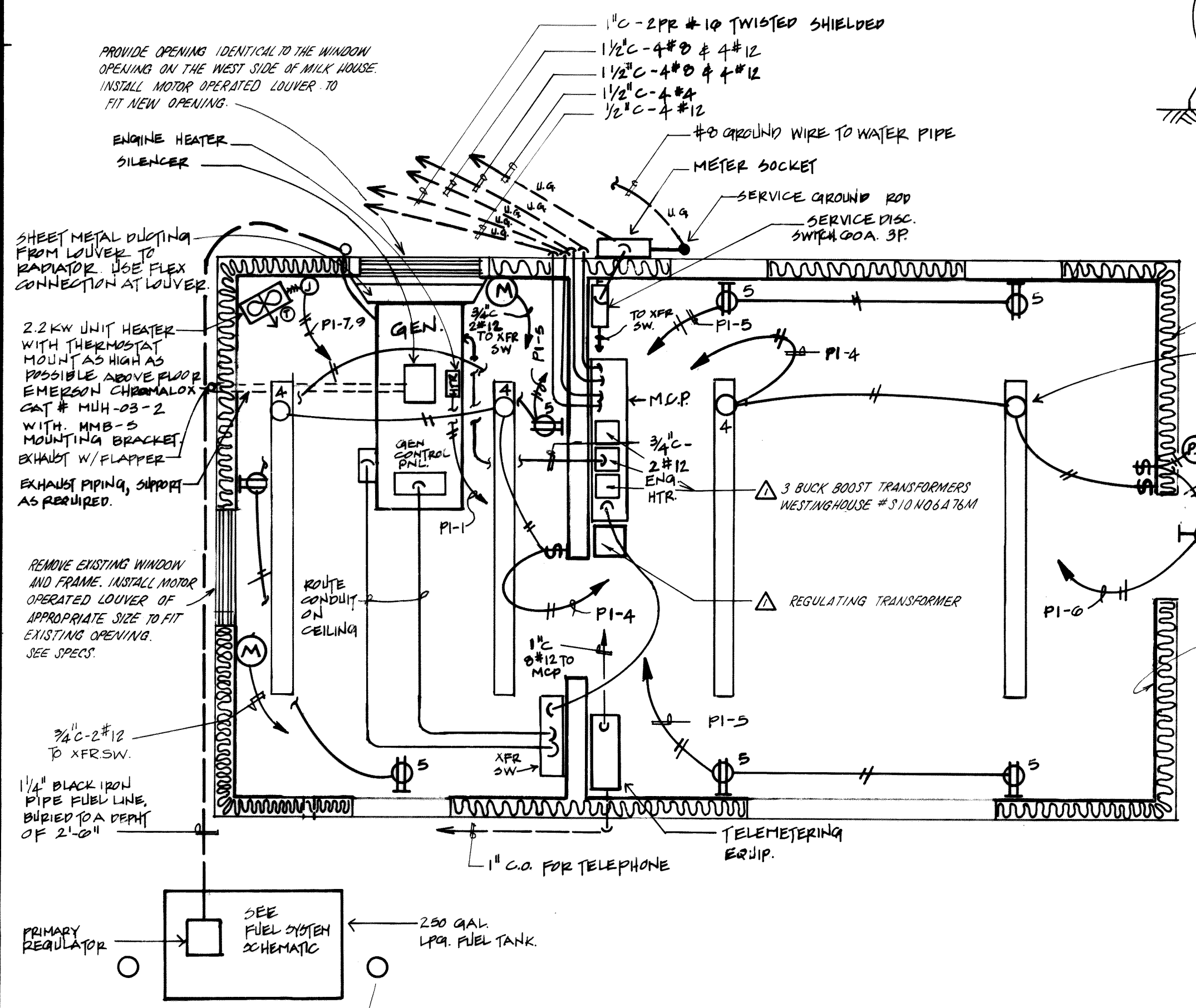
SITE PLAN - NOR-BELL P.S.
SCALE: 1" = 50'-0"



SITE PLAN - GRINDER P.S.
SCALE: 1" = 50'-0"



FUEL SYSTEM SCHEMATIC



MILK HOUSE PLAN
SCALE: 3/8" = 1'-0"

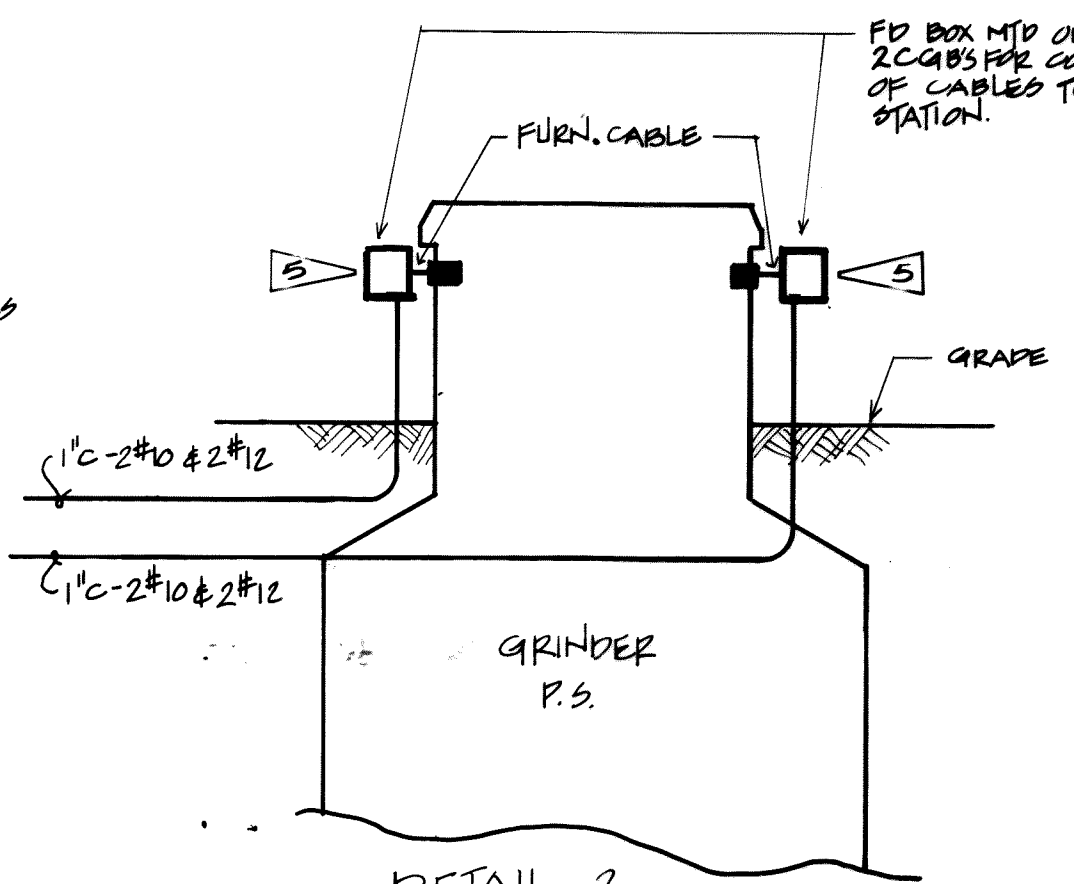
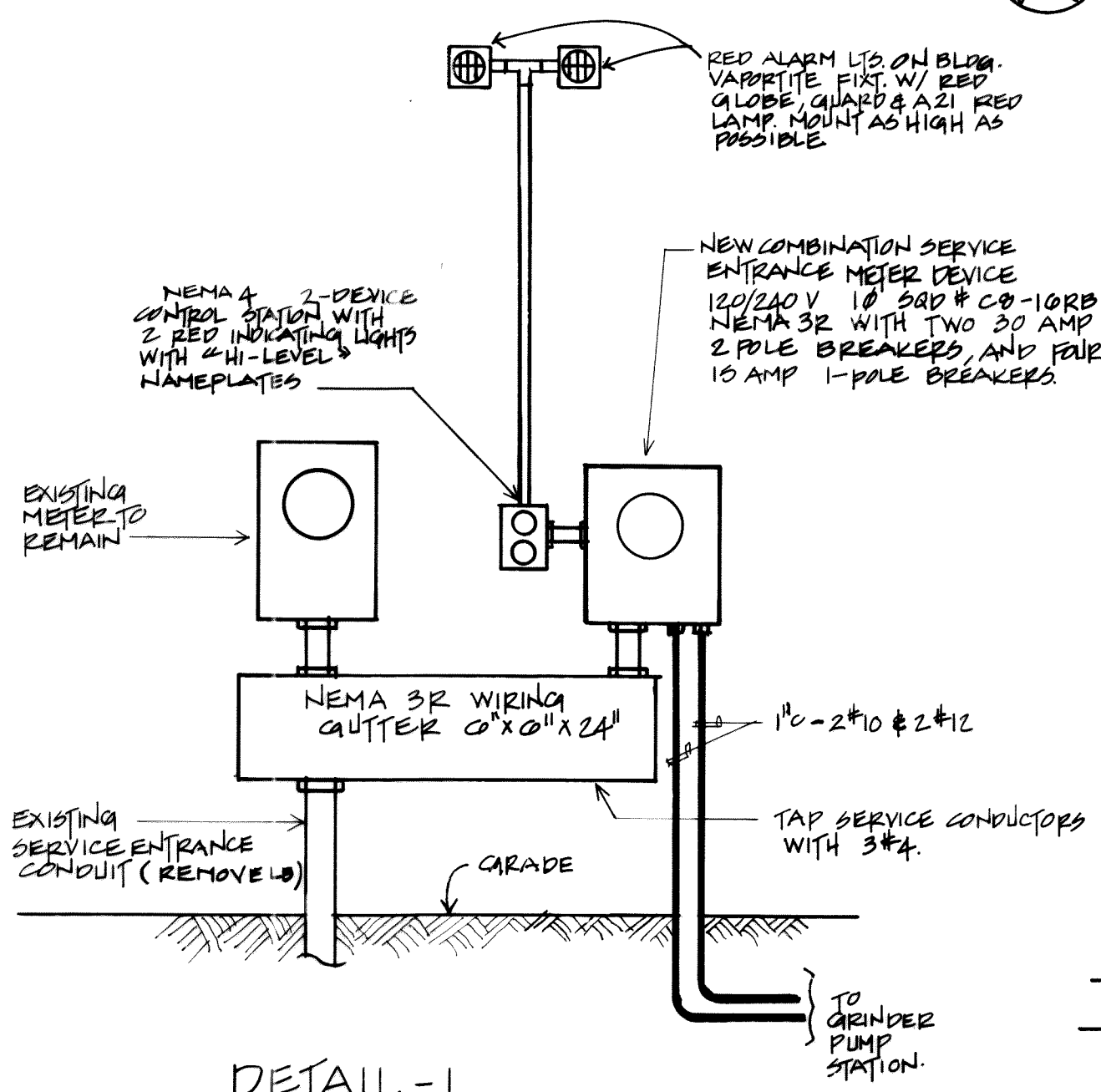
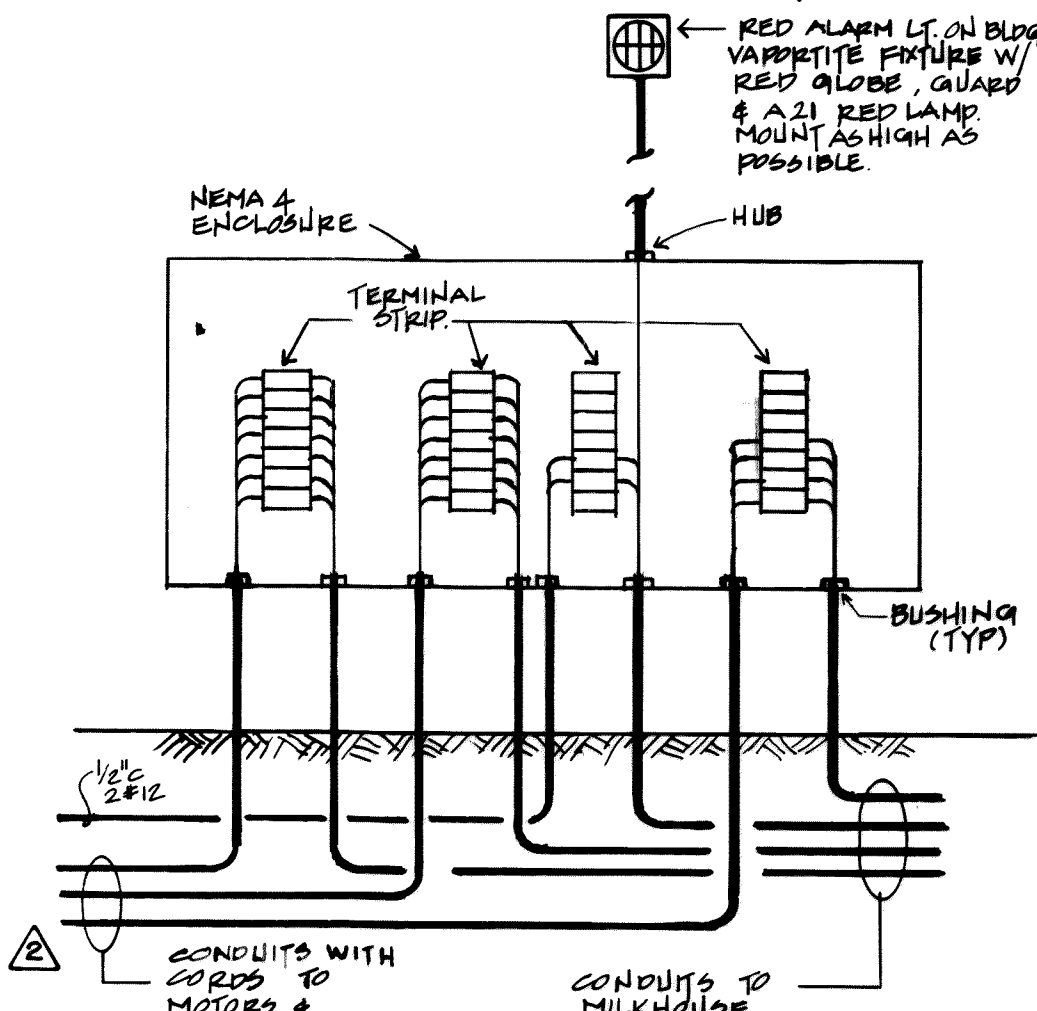
PANEL SCHEDULE									
NO	PI	LOCATION	MCP IN MILK HOUSE		200/120	VOLTS 3 PHASE 4		WIRE	
CKT NO		LOAD DESCRIPTION	KVA	TRIP AMPS		TRIP AMPS			
1		ENGINE HTR	1.0	20		20			
3		LOUVER MOTORS	1.0	20		20			
5		RECEPERS	1.4	20		20			
7		UNIT HTR	2.2	20		20			
9		"				20			
11		SPARE				20			
13		"				20			
15		"				20			
REMARKS					CONNECTED LOAD 5.0 KVA 19.8 AMPS				
					DEMAND LOAD 5.0 KVA 19.8 AMPS				

SYMBOL LEGEND

- SURFACE MOUNTED FLUORESCENT FIXTURE.
- WALL MOUNTED LTA FIXTURE
- PHOTO ELECTRIC CELL
- JUNCTION BOX
- DUPLEX RECEPTACLE
- THERMOSTAT
- MOTOR CONNECTION
- SINGLE POLE SWITCH
- MOTOR CONTROL PANEL
- DISCONNECT SWITCH.
- WIRING EXPOSED
- WIRING CONCEALED IN CEILING OR WALL
- NO. OF CONDUCTORS.
- BRANCH CIRCUIT HOME RUN.
- FLEX CONDUIT.

CONFORMS TO RECORD DOCUMENTS
DATE: 1-4-85
By: Brian Jacobson

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- NOTES**
- STUB-UP CONDUIT AT BASE OF NEW POLE. PROVIDE 10FT OF MAKE-UP CONDUCTOR.
 - EXISTING WIRING AND ELECTRICAL EQUIPMENT IN MILK HOUSE SHALL BE ENTIRELY REMOVED & REPLACED WITH NEW AS SHOWN.
 - FOR PUMP STATION EQUIPMENT AND INSTALLATION DETAILS SEE DWG. D-1, SHT 12
 - RUN CONDUIT IN TRENCH WITH PIPE SPACE 3'-0" HORIZONTALLY FROM PIPE.
 - PUMP STATION IS PREWIRED AND REQUIRES TWO 240 FEEDERS AND TWO 120 V CONTROL CIRCUITS FOR LEVEL LIGHTS. CONNECT WIRING PER MFR S INSTRUCTIONS

WHATCOM COUNTY, WASHINGTON
NOR BELL NURSING HOME INTERCEPTOR

AS-BUILT
ELECTRICAL PLANS & DETAILS

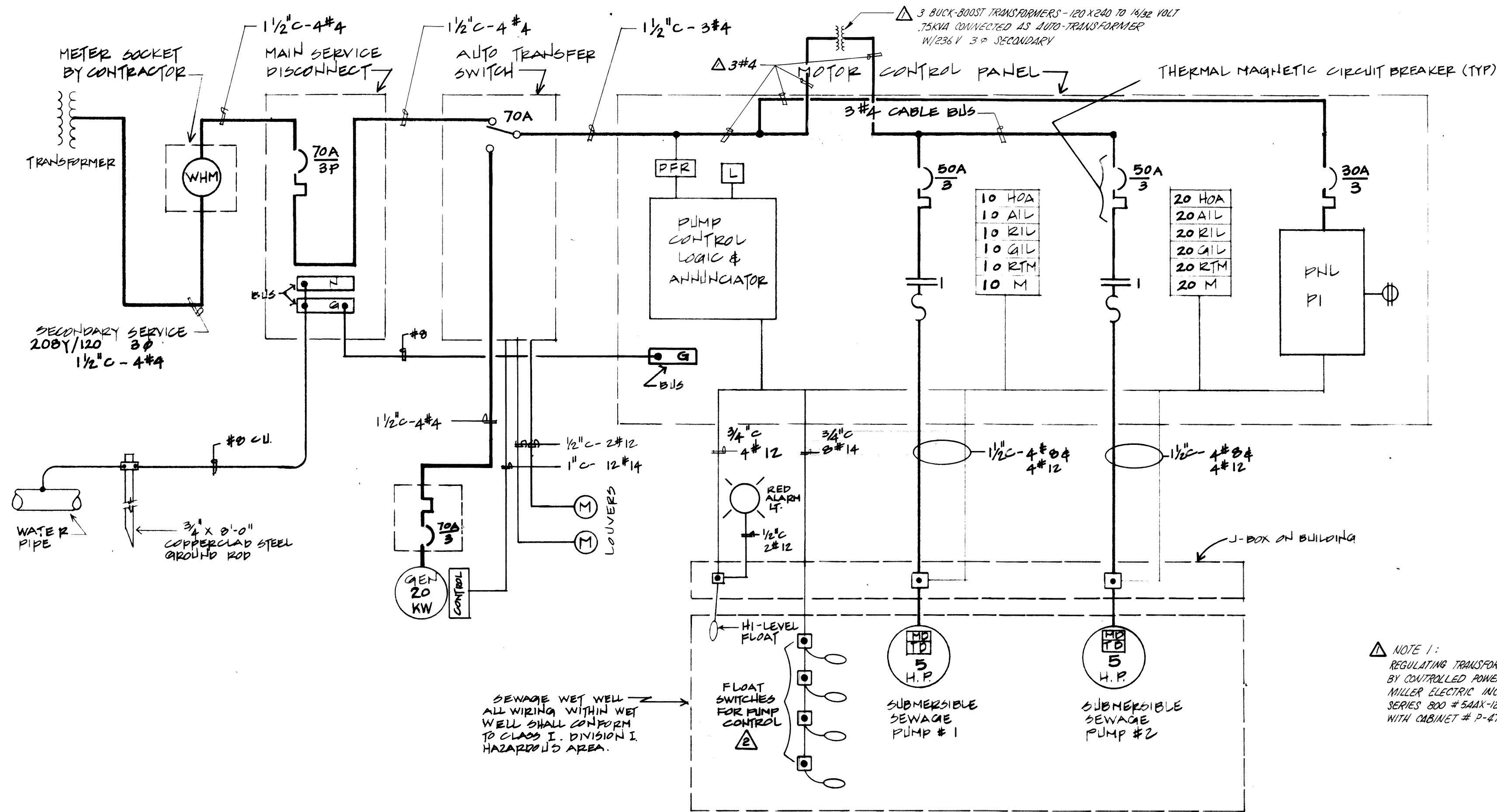
DATE: JUNE 1983
DESIGNED BY: [Signature]
DRAWN BY: [Signature]
APPROVED BY: [Signature]

consulting engineers
harper davis

REVISIONS:
1. 8-30-83: ADDITIONAL I
2. 11-14-84: REVISOR TO AS-BUILT CONDITIONS (UPDATED AS-BUILT 1-4-85)

Drawing No: E-1
Sheet No: 15/16

003217.015 2-6-06 KR

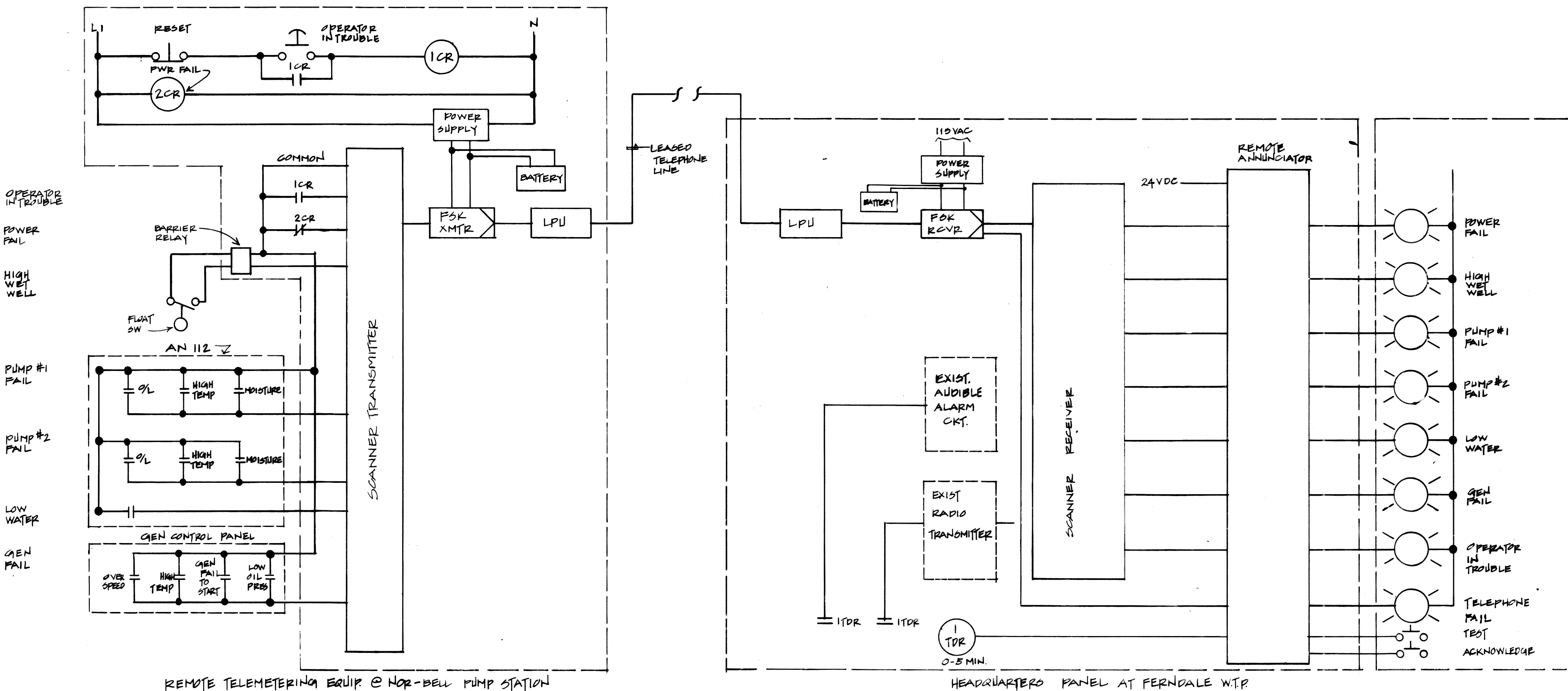


ONE LINE DIAGRAM

ABBREVIATIONS

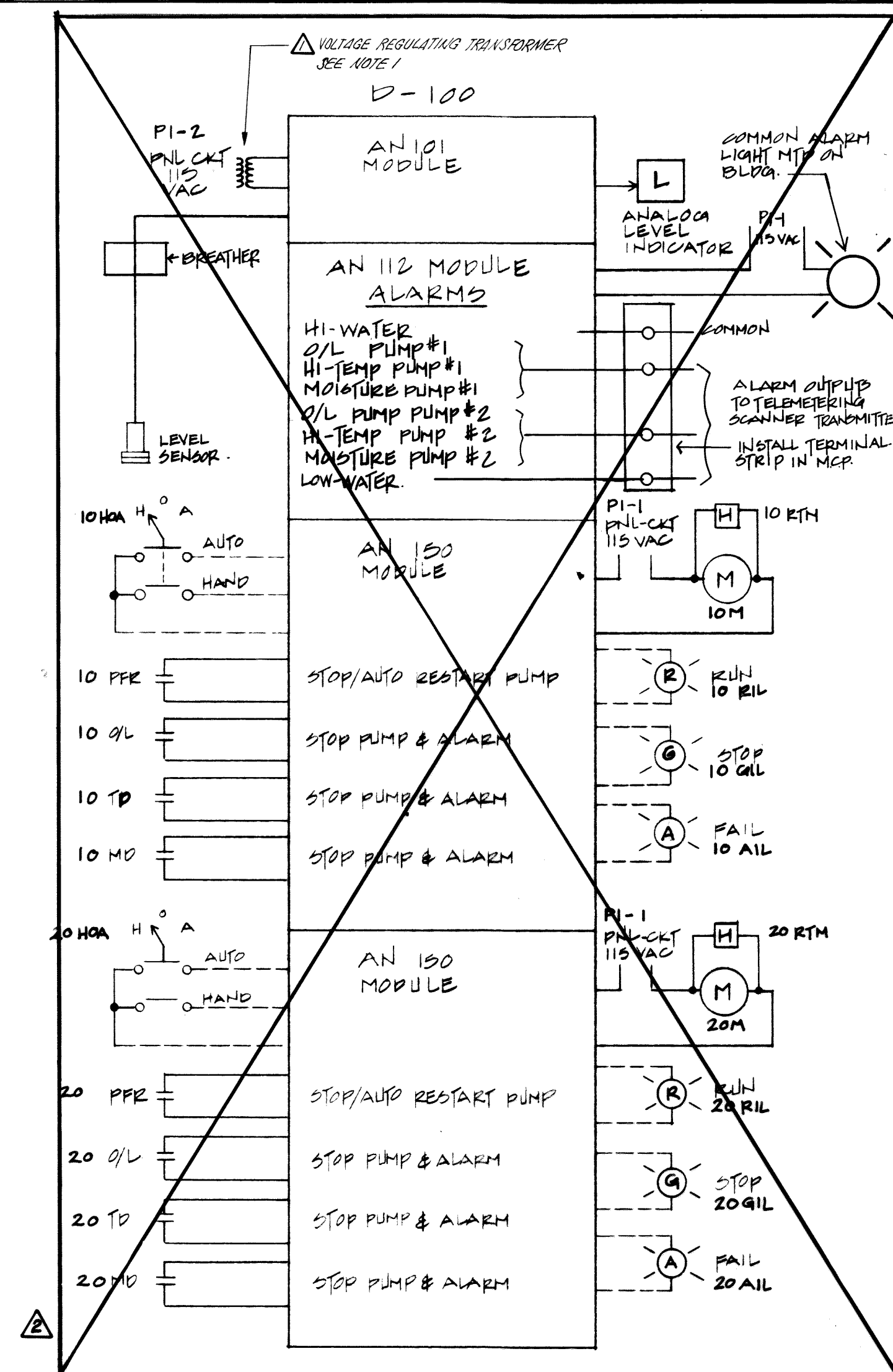
HOA	HAND-OFF-AUTO SELECTOR SWITCH
AIL	AMBER INDICATING LIGHT
RIL	RED INDICATING LIGHT
GIL	GREEN INDICATING LIGHT
RTM, H	RUNNING TIME METER
PFR	PHASE FAILURE RELAY
M	MOTOR STARTER OR SMALL MOTOR
L	LEVEL INDICATOR
MD	MOISTURE DETECTOR
TD	TEMPERATURE DETECTOR
N	NEUTRAL
G	GROUND
PNL	PANEL
O/L	OVERLOAD
CKT	CIRCUIT
C.O.	CONDUIT ONLY
CU	COPPER
W.P.	WEATHERPROOF
U.G.	UNDERGROUND
LPU	LINE PROTECTION UNIT
CR	CONTROL RELAY
FSK	FREQUENCY SHIFT KEYED
XMTR	TRANSmitter
RCVR	RECEIVER
TDR	TIME DELAY RELAY

NOTE 1: REGULATING TRANSFORMER, MFD BY CONTROLLED POWER COMPANY/ MILLER ELECTRIC INC./ SEATTLE SERIES 800 # 544X-120-8 WITH CABINET # P-47578-0

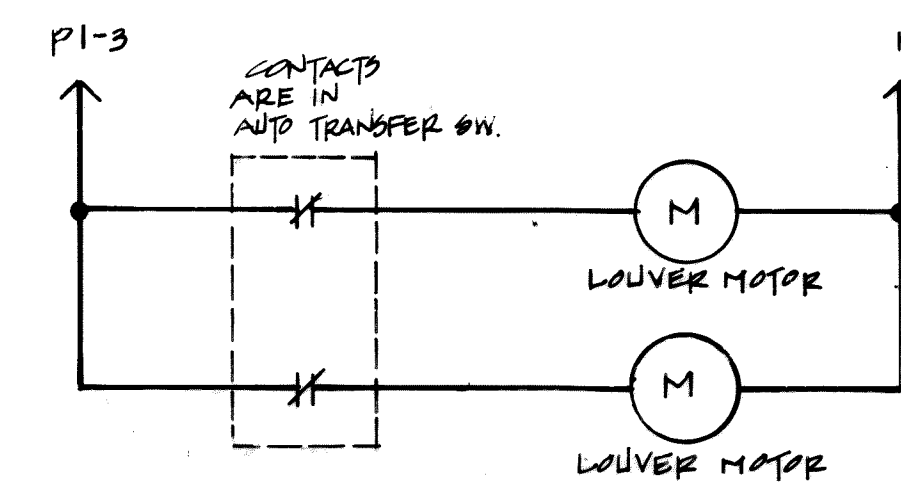


TELEMETERING

SEE O&M MANUALS FOR DETAILED WIRING DIAGRAMS OF TELEMETRY SYSTEM.



LOGIC CONTROL DIAGRAM



LOUVER CONTROL SCHEMATIC

CONFORMS TO RECORD DOCUMENTS
DATE 1-4-85 B.I.

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Date 1-4-85
By Brianne Jacobson

NEW HOPKINS ENCLOSURE WITH 2 HONEYWELL CMO LIGHTS WITH WINDOWS LABELLED AS INDICATED. IDENTIFY BOX AS "NOR-BELL PUMP STATION ALARMS."

WHATCOM COUNTY, WASHINGTON
NOR BELL NURSING HOME INTERCEPTOR

ONE LINE DIAGRAMS & CONTROL SCHEMATICS

consulting engineers

harper owens

