



CITY OF
BREMERTON



CITY OF BREMERTON

Ostrich Bay Sewerage Project

Project Number:

CITY OF BREMERTON OSTRICH BAY SEWERAGE PROJECT

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27	SITE PLAN
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NOTE

ALL ELEVATIONS U.S.C. & G.S. DATUM
FOR CITY OF BREMERTON DATUM
ADD 116.12

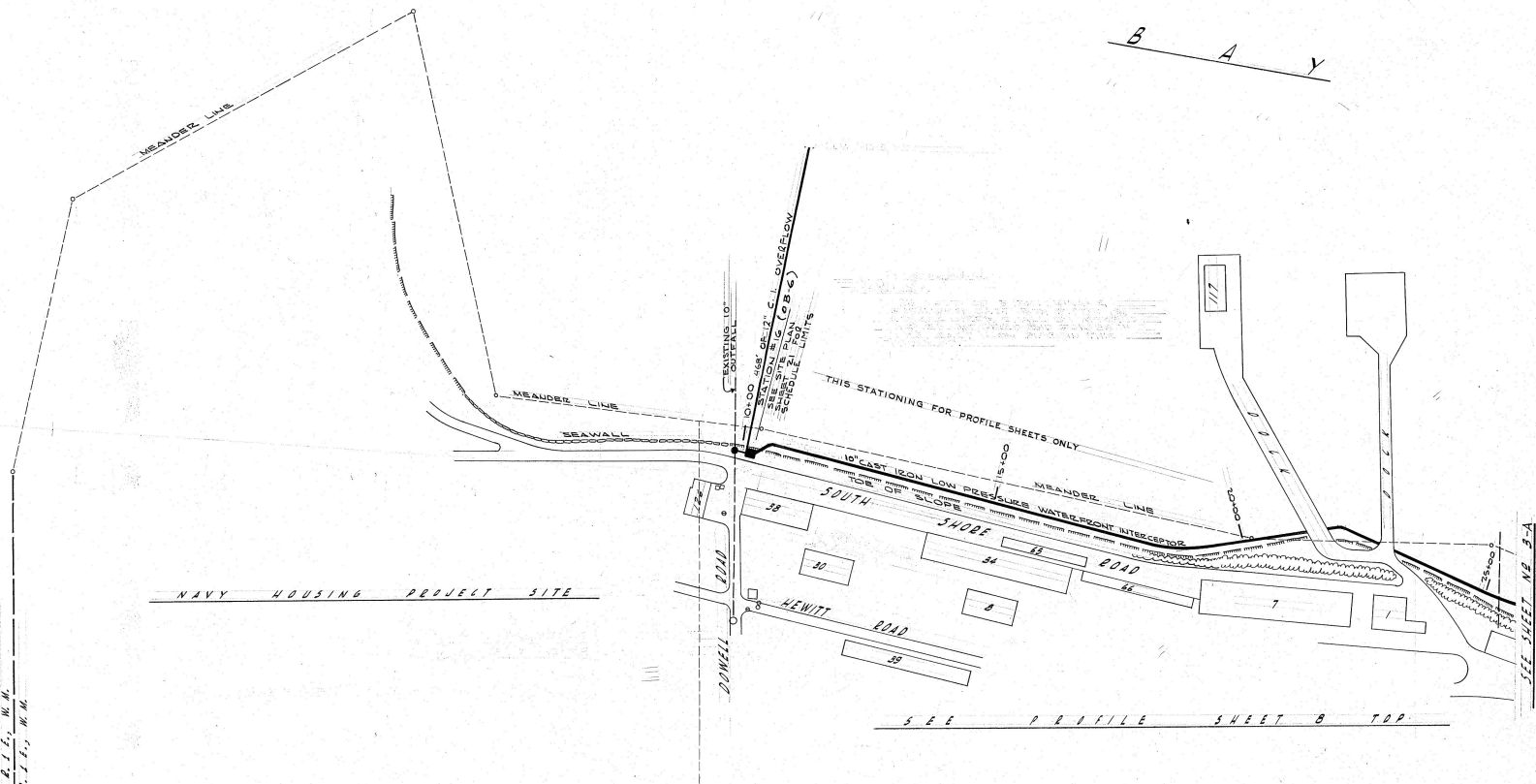
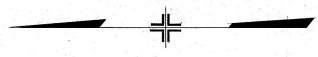


CITY OF BREMERTON	
KITAPAH COUNTY	
OSTRICH BAY SEWERAGE PROJECT	
GENERAL MAP	
DATE: APRIL 1988	SCALE: 1"=4000'
DRAWN: S.J.S.	SHEET: 1 OF 30
CHECKED: D.C.C.	BY: DATE APPROVED: F.T.O.
Guy & Osburn CONSULTING ENGINEERS SEATTLE & YAKIMA WASHINGTON	

MICRO 1587-A

O S T R I C H

B A Y



SEE S, T, W, R, I, C, W, W.
SEE S, T, W, R, I, C, W, W.

GOVT. LOT 1, SEC. 9

GOVT. LOT 2, SEC. 9

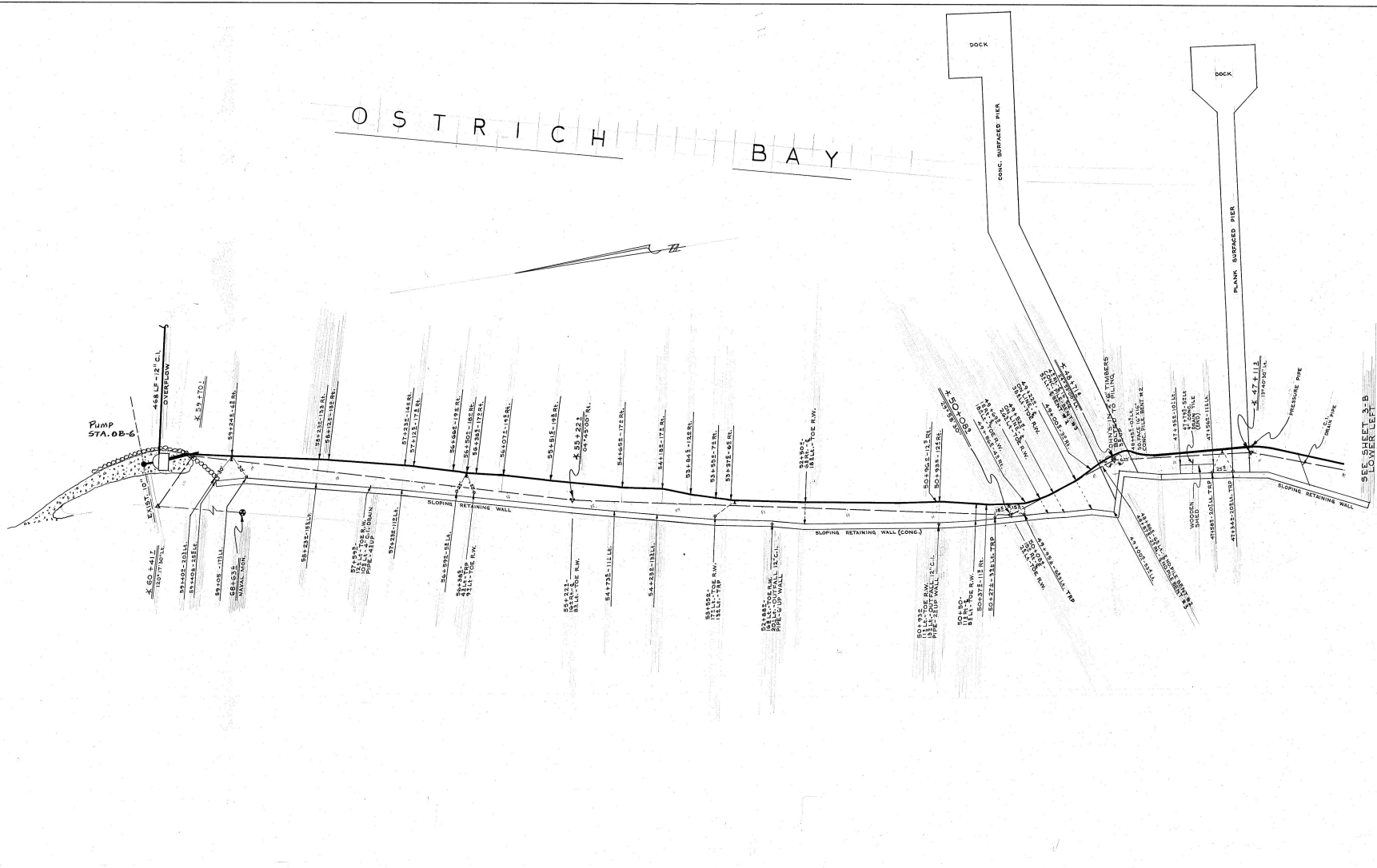
P L A N
SCALE: 1"=100'



CITY OF BREMERTON
KITAP COUNTY WASHINGTON
OSTRICH BAY SEWERAGE PROJECT
PLAN - OSTRICH BAY

DATE: APRIL 1983	SCALE: NOTED
DRAWN: J. G. M.	SHEET 2-A
CHECKED: R. E. C.	OF 30
BY: DATE: APR 1983	APPROVED: F. F. D.
Gay & Osborne CONSULTING ENGINEERS SEATTLE & VANUVA WASHINGTON	

TREET WEDGE SUPPLIES TO BE PLACED 306' APART (100' MIN)



PLAN
SCALE: 1" = 50'

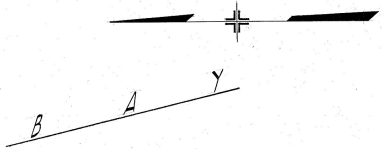
TRP = TEE REFERENCE PIPE
RW = RETAINING WALL
DHN = DOUBLE HEADED NAIL
B&Z = BENT #2

RECORD DRAWING
CITY OF BREMERTON

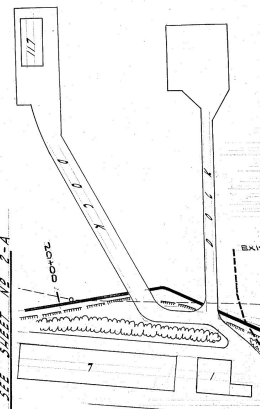
OSTRICH BAY SEWERAGE PROJECT	
PLAN - OSTRICH BAY	
DATE: AUG. 1988	SCALE: NOTED
DESIGN: R.J.F.	<i>Gray & Osborne</i> CONSULTING ENGINEERS SEATTLE & VANICUM WASHINGTON
DRAWN: S.C.C.	
BY DATE APPD	SHEET 28 OF 30



NO.	REVISION	BY	DATE	APPD
1	AS CONSTRUCTED	RJK	12/6/88	RRC
				APPROVED: R.R.C.



O S T R I C H



NOTE
 INTERCEPT EXISTING SEWER LINE NEAR BUILDING 90 AS INDICATED FURNISH AND INSTALL 10" DIA. 8' C.I. TEE, 2' C.I. PIPE AT EXISTING MANHOLE. TOTAL COST FOR CONNECTION TO INTERCEPT AND SHALL BE AS LUMP SUM COST FOR CONNECTION AT U.S. NAVY. STATION 25+00

THIS STATIONING FOR PROFILE SHEETS ONLY

SEE PROFILE SHEET

SEE SHEET NO. 2-A

SEE SHEET NO. 4-A

6.0 DV. LOT 2, SEC. 9

6.0 DV. LOT 3, SEC. 9

U. S. NAVAL MAGAZINE

ROAD

SOUTH

SHORE

715 91

SEE PROFILE SHEET

SEE PROFILE SHEET

6.0 DV. LOT 4

SEC. 9

SEC. 9

SEC. 9

SEC. 9

SEC. 9

SEC. 9

SEC. 9

SEC. 9

P L A N

SCALE: 1"=100'

10" CAST IRON LOW PRESSURE WATERPROOF INTERSECTION

10" CAST IRON LOW PRESSURE WATERPROOF INTERSECTION

10" CAST IRON LOW PRESSURE WATERPROOF INTERSECTION

10" CAST IRON LOW PRESSURE WATERPROOF INTERSECTION

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10" CAST IRON LOW PRESSURE WATERPROOF INTERSECTION

10" CAST IRON LOW PRESSURE WATERPROOF INTERSECTION

10" CAST IRON LOW PRESSURE WATERPROOF INTERSECTION



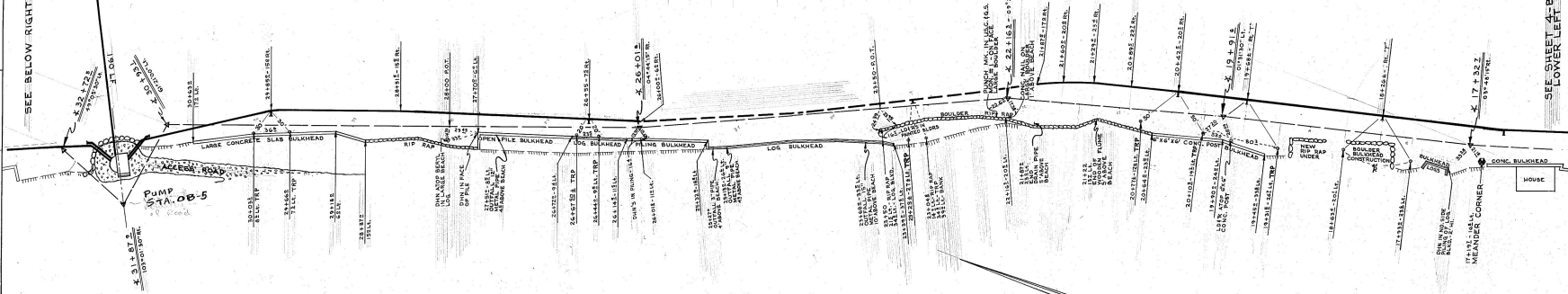
CITY OF BREMERTON		WASHINGTON	
KITSAP COUNTY			
OSTRICH BAY SEWERAGE PROJECT			
PLAN - OSTRICH BAY			
DATE: APRIL, 1951	DRAWN: J.G.M.	CHECKED: A.R.C.	SCALE: NOTED
BY: J.G.M.	DATE: APRIL, 1951	APPROVED: A.R.C.	SHEET 3-A
CONSULTING ENGINEERS			OF 30
SEATTLE & TACOMA WASHINGTON			

Micro 1881-0

PLAN - OSTRICH BAY

3/30

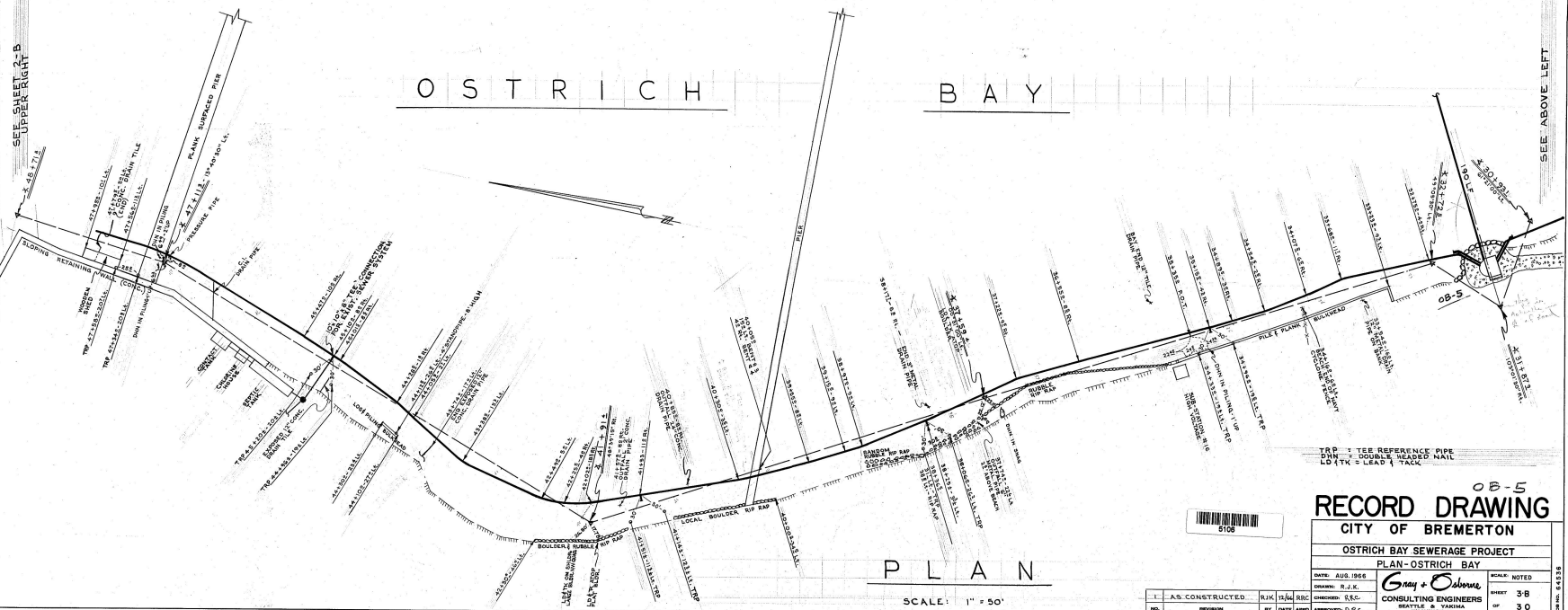
O S T R I C H B A Y



P L A N

SCALE: 1" = 50'

O S T R I C H B A Y



P L A N

SCALE: 1" = 50'

TRIP = TREE REFERENCE PIPE
 DFN = DOWN HOLE NAIL
 LDTK = LEAD TANK

RECORD DRAWING

CITY OF BREMERTON

OSTRICH BAY SEWERAGE PROJECT

PLAN-OSTRICH BAY

DATE: AUG. 1956
 DRAWN: R.J.E.
 CHECKED: R.C.C.
 CONSULTING ENGINEERS
 SEATTLE & YAKIMA
 WASHINGTON

NO.	REVISION	BY	DATE	APP.
1	AS CONSTRUCTED	RJK	8/15/56	RJC

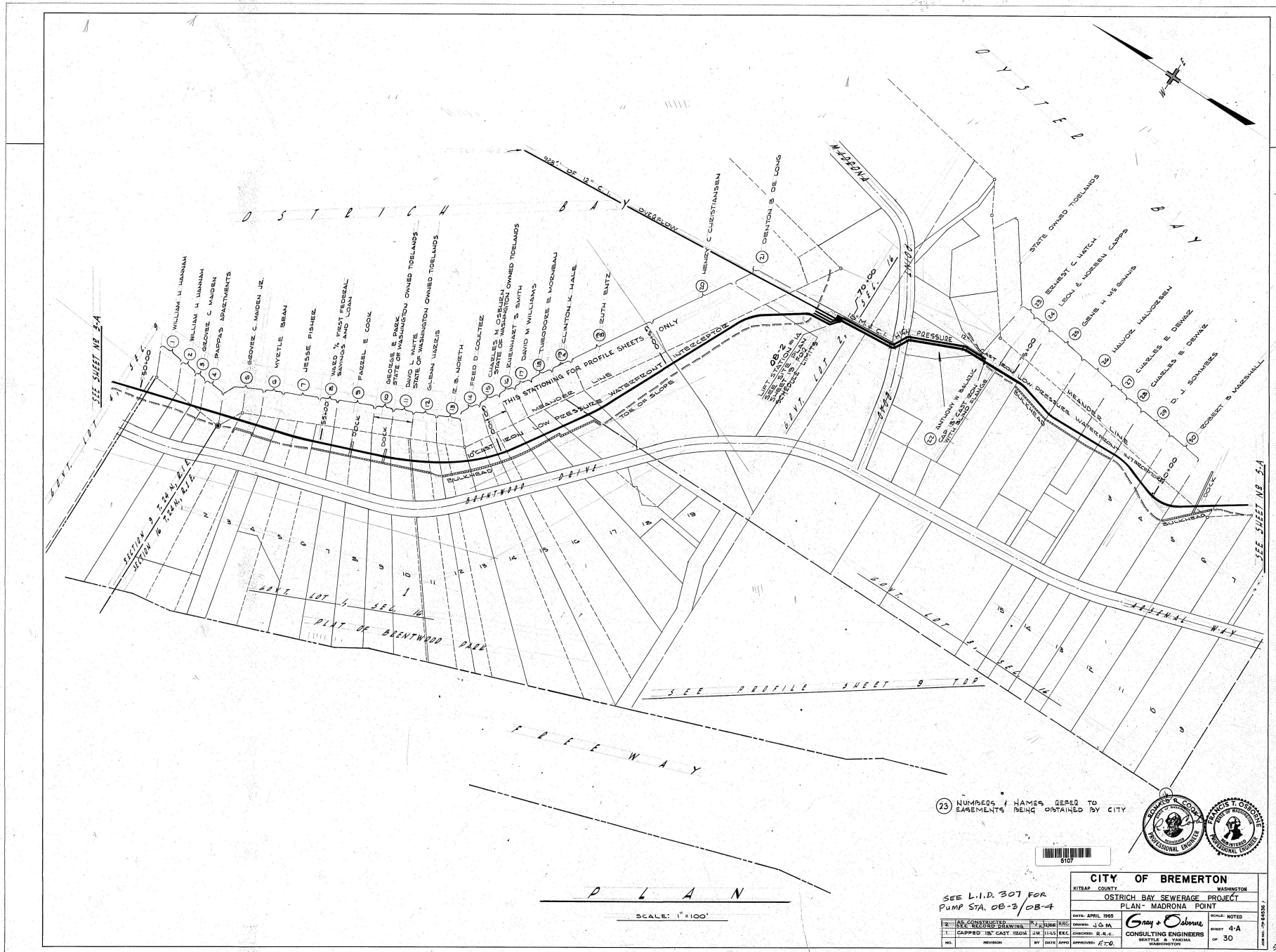
08-5

5108

SCALE: NOTED

SHEET 38

OF 30



23 NUMBERS & NAMES REFER TO EASEMENTS BEING OBTAINED BY CITY



SEE L.I.D. 307 FOR PUMP STA. OB-3/OB-4

CITY OF BREMERTON		WASHINGTON COUNTY	
OSTRICH BAY SEWERAGE PROJECT			
PLAN - MADRONA POINT			
DATE: APRIL 1968	BY: J.C.M.	DATE: APRIL 1968	BY: J.C.M.
DESIGNED BY: J.C.M.	CHECKED BY: R.E.C.	APPROVED BY: F.T.O.	DATE: APRIL 1968

Gray & Osborne
CONSULTING ENGINEERS
SEATTLE - YAKIMA - BOSTON

SCALE NOTED
SHEET 4-A
OF 30

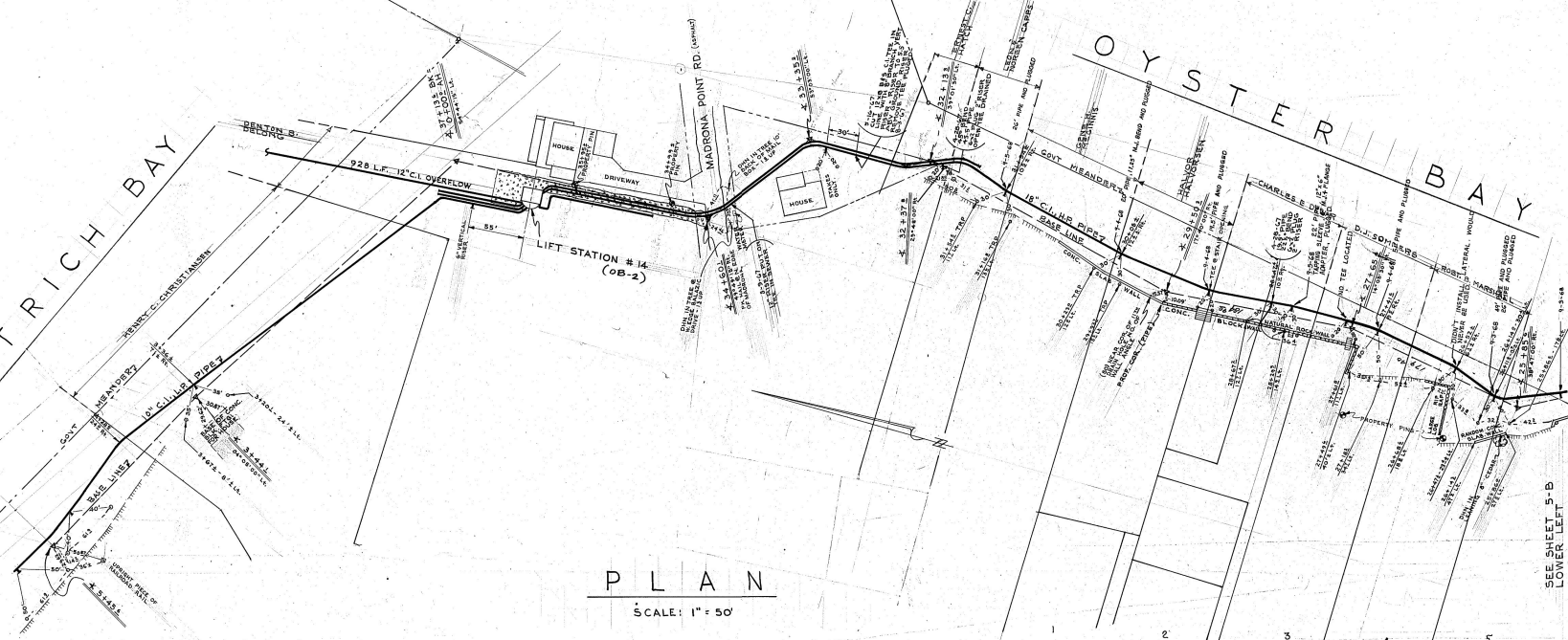
SCALE: 1"=100'

OSTRICH BAY

OYSTER BAY

SEE BELOW RIGHT

SEE SHEET 5-B LOWER LEFT

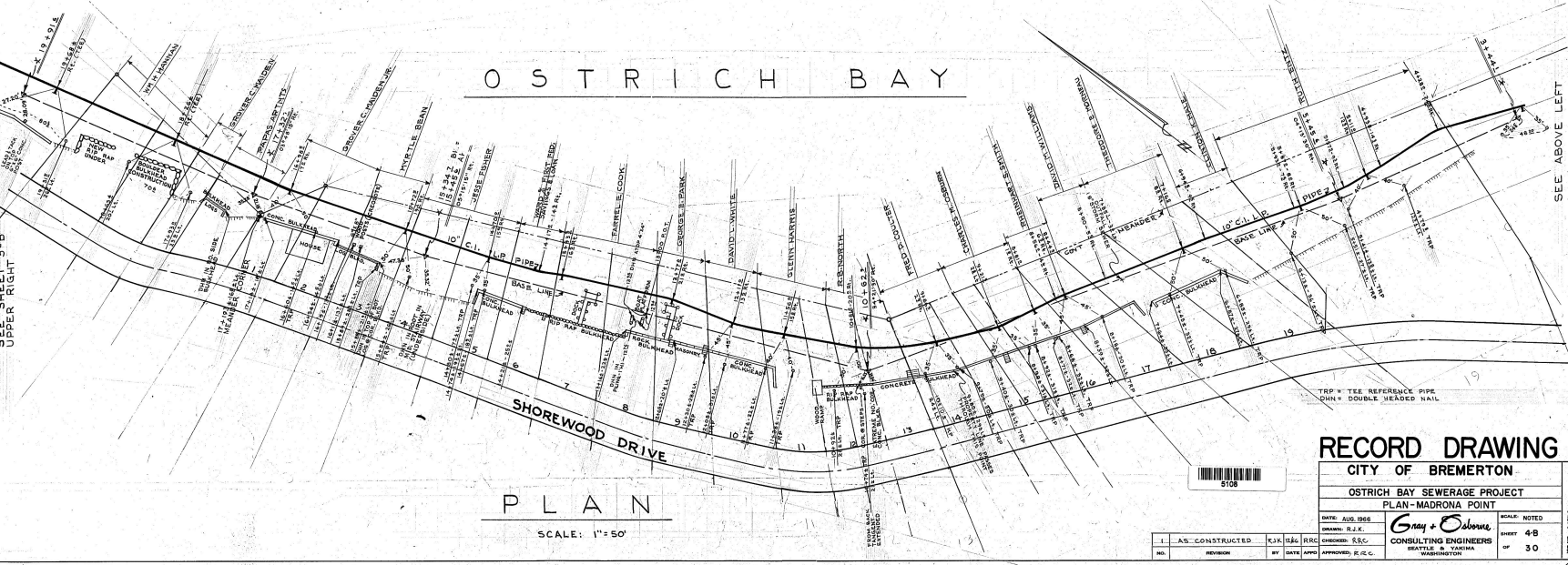


PLAN
SCALE: 1" = 50'

OSTRICH BAY

SEE SHEET 5-B UPPER RIGHT

SEE ABOVE LEFT

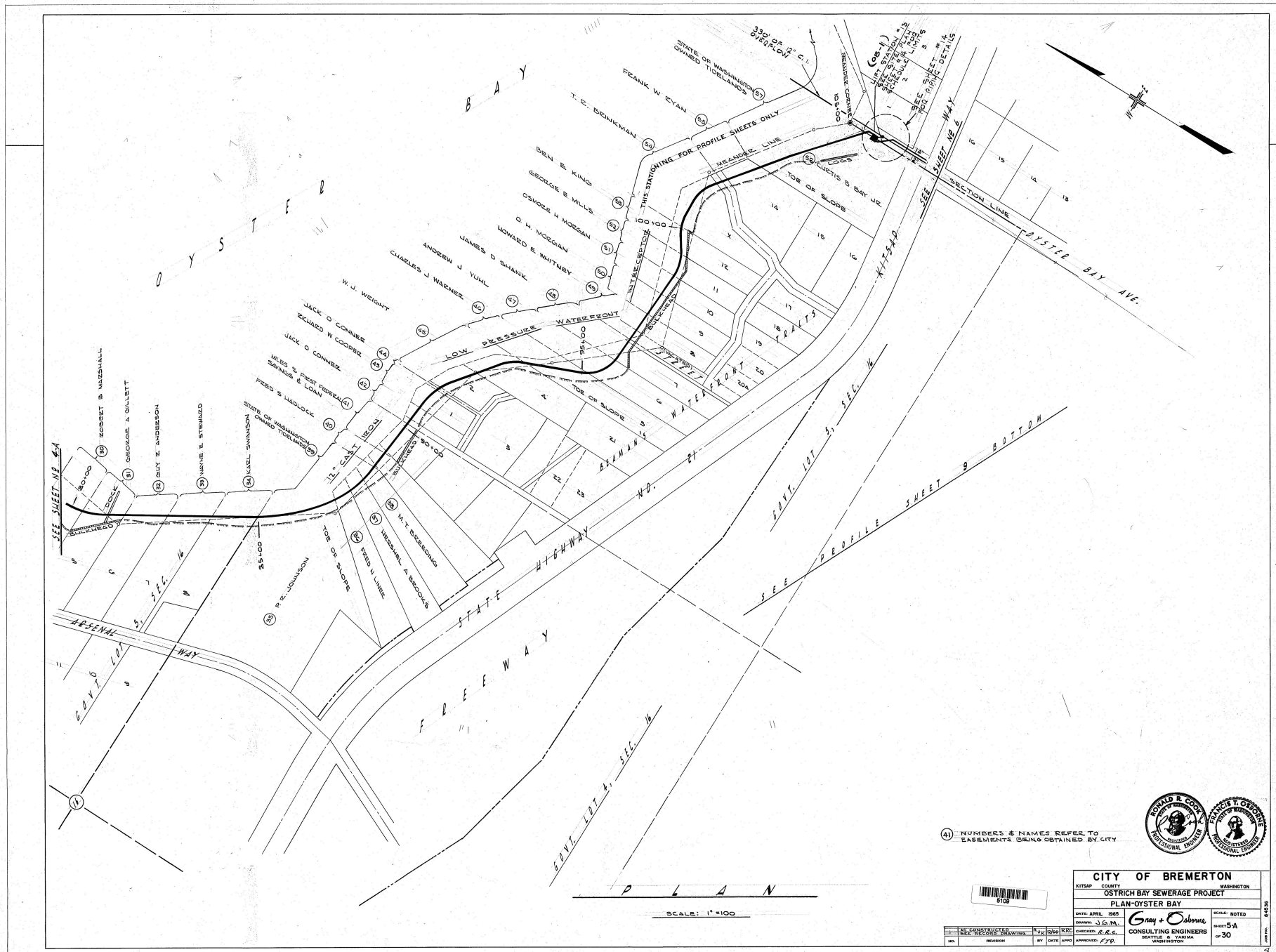


PLAN
SCALE: 1" = 50'

RECORD DRAWING

CITY OF BREMERTON	
OSTRICH BAY SEWERAGE PROJECT	
PLAN-MADRONA POINT	
DATE: APR 1988	SCALE: NOTED
DRAWN: R.L.K.	SHEET: 4/8
DESIGNED: R.C.C.	OF: 30
CONSULTING ENGINEERS	PROJECT NO. 18871-G
SEATTLE & BOSTON	
WASHINGTON	

NO.	REVISION	BY	DATE	APP'D	APPROVED, R.C.C.
1	AS CONSTRUCTED	KJK	12/8	RRC	



(A) NUMBERS & NAMES REFER TO EASEMENTS BEING OBTAINED BY CITY



CITY OF BREMERTON
 KITSAP COUNTY WASHINGTON
OSTRICH BAY SEWERAGE PROJECT
PLAN-OYSTER BAY

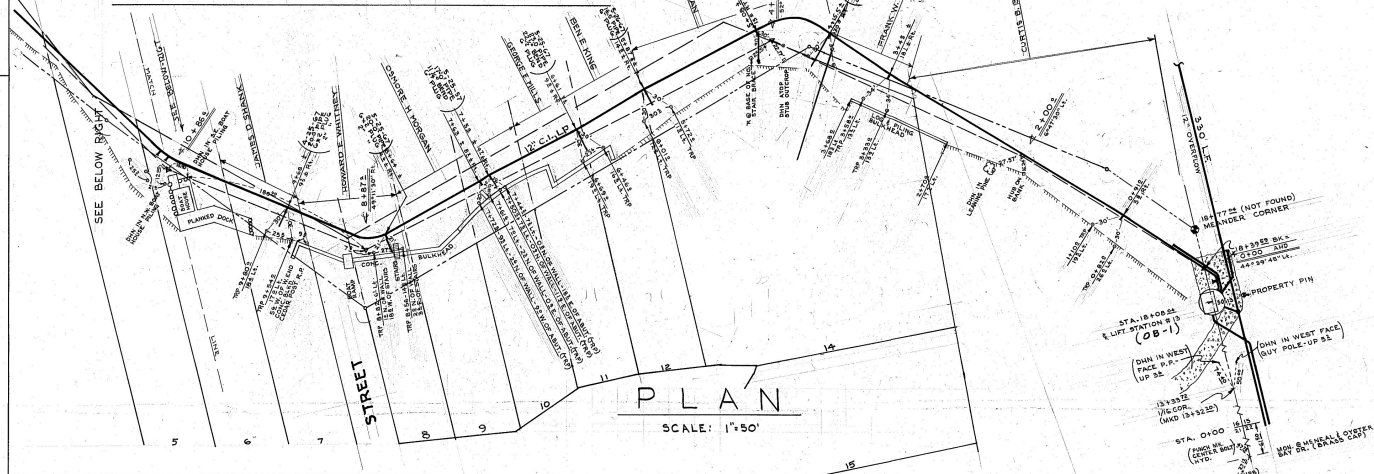
DATE: APRIL 1965	SCALE: NOTED
DRAWN: J.G.M.	SHEET: 5A
CHECKED: R.E.C.	OF: 30
APPROVED: J.P.D.	

Gay & Osborne
 CONSULTING ENGINEERS
 SEATTLE & TACOMA
 WASHINGTON



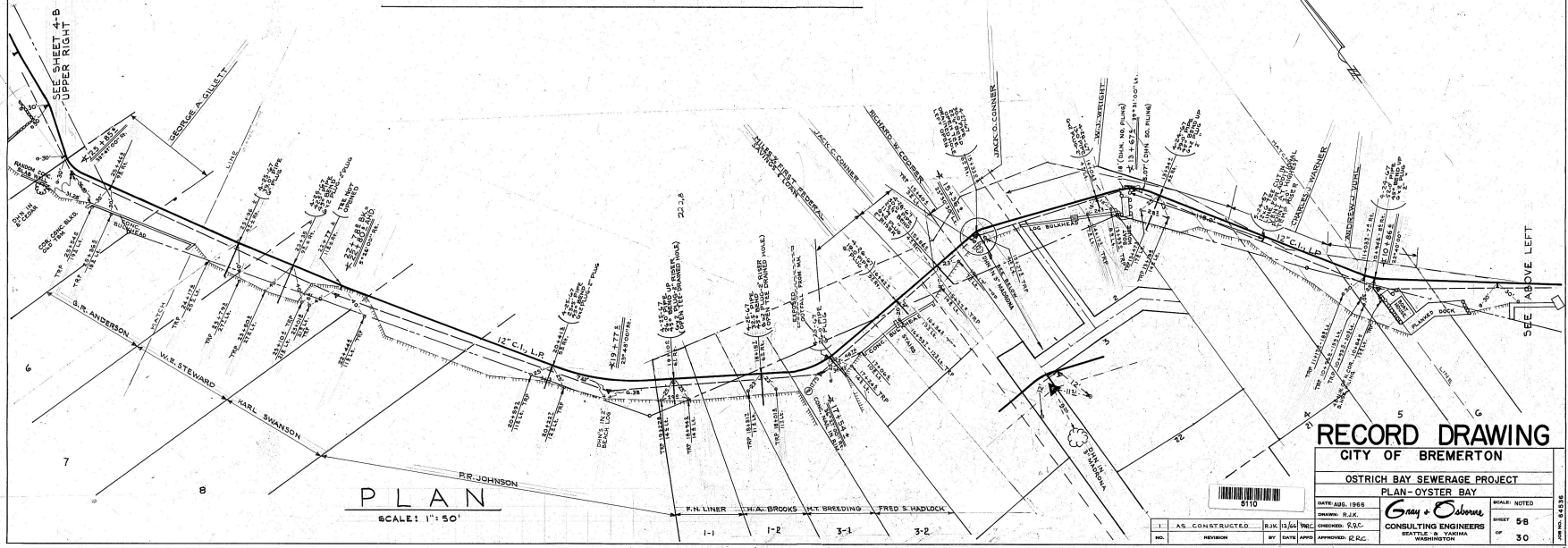
SCALE: 1" = 100'

O Y S T E R B A Y



PLAN
SCALE: 1"=50'

O Y S T E R B A Y



PLAN
SCALE: 1"=50'

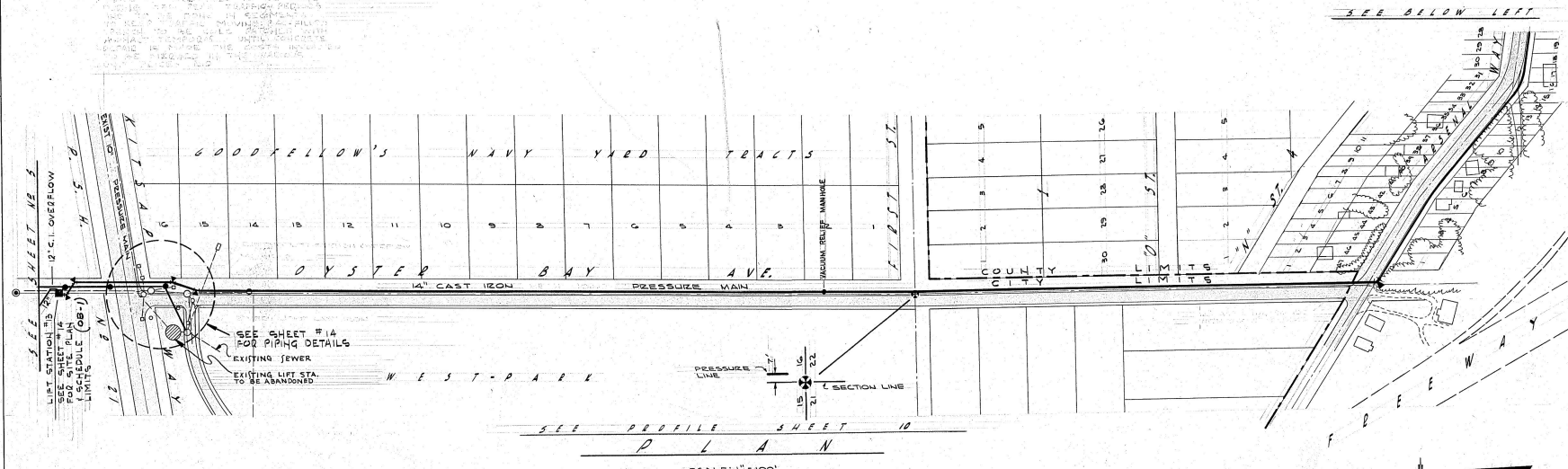
RECORD DRAWING
CITY OF BREMERTON

OSTRICH BAY SEWERAGE PROJECT
PLAN - OYSTER BAY

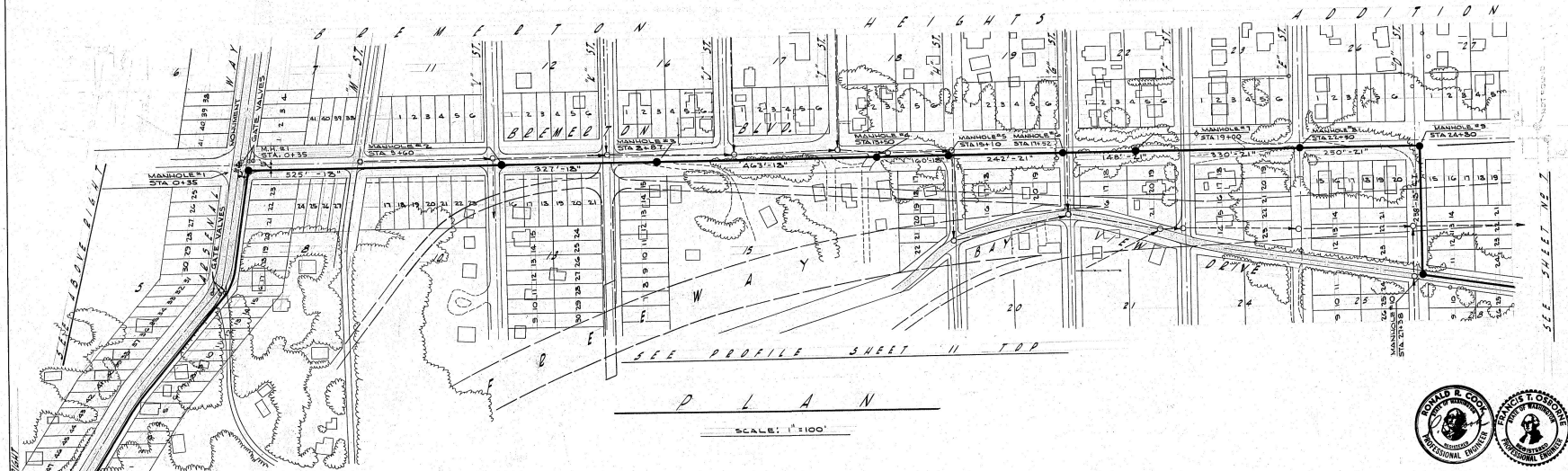
DATE: AUG. 1966	SCALE: NOTED
DRAWN: R.J.K.	SHEET: 58
DESIGNED: R.S.C.	OF: 30
CONSULTING ENGINEERS	
SEATTLE - B. YAMASHITA	
WASHINGTON	



1	AS CONSTRUCTED	RJK	10/16/66	TRC
NO.	REVISION	BY	DATE	APPROVED: R.S.C.



SEE PROFILE SHEET 10
P L A N
 SCALE: 1"=100'



SEE PROFILE SHEET 11 TOP
P L A N
 SCALE: 1"=100'

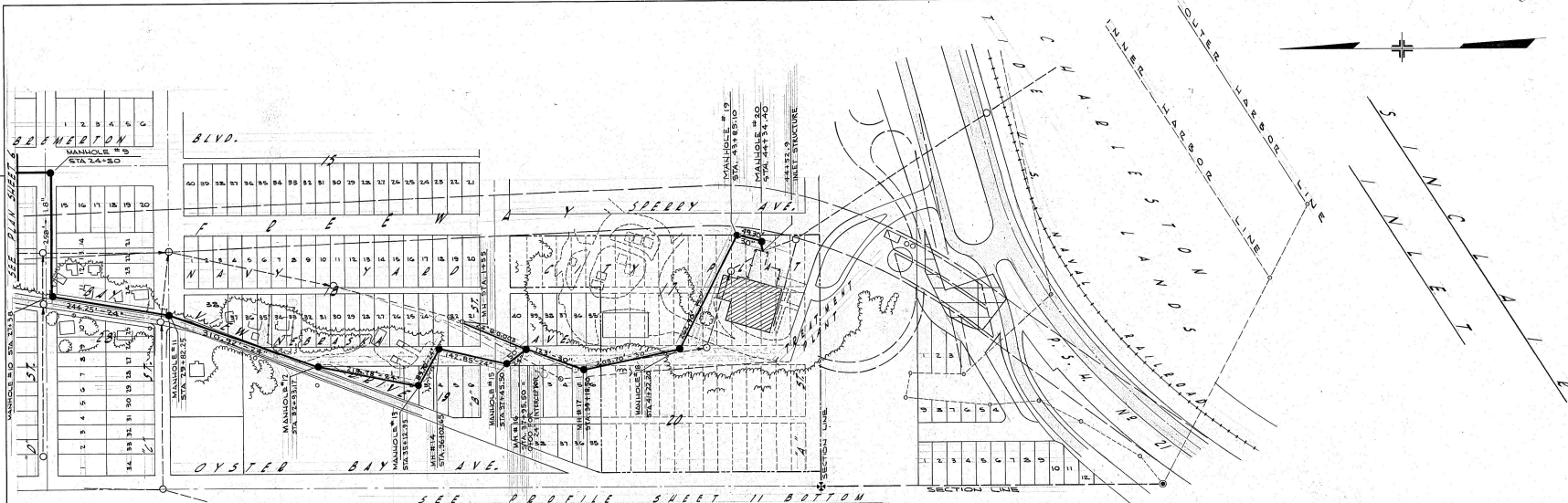


CITY OF BREMERTON
 WASHINGTON COUNTY
OSTRICH BAY SEWERAGE PROJECT
PLAN-OYSTER BAY AVENUE

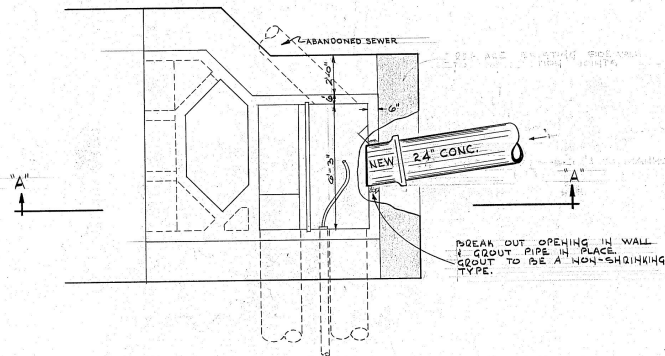
DATE: APRIL, 1965
 DRAWN: J.G.M.
 CHECKED: P.E.C.
 CONSULTING ENGINEERS
 BENJAMIN & TAYLOR
 WASHINGTON

SCALE: NOTED
 SHEET 6
 OF 30

AS CONSTRUCTED BY DATE 1965 APPROVED F.D.

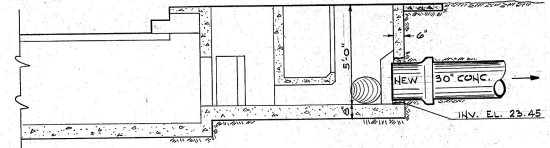


PLAN
SCALE: 1" = 100'



PLAN
SCALE: 3/16" = 1'-0"

NOTE: COST OF CONNECTING PIPE TO HEADWORKS TO BE BID AS ITEM #28 "LUMP SUM COST FOR CONNECTION AT TREATMENT PLANT"



SECTION A-A
SCALE: 3/8" = 1'-0"

TREATMENT PLANT CONNECTION



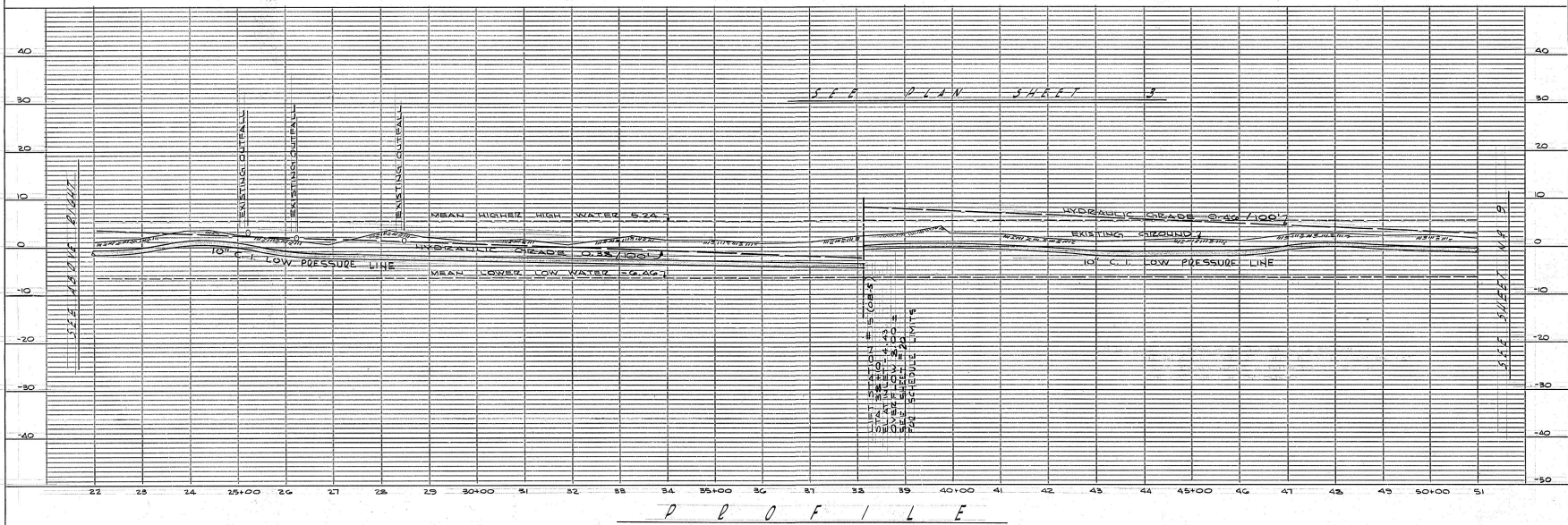
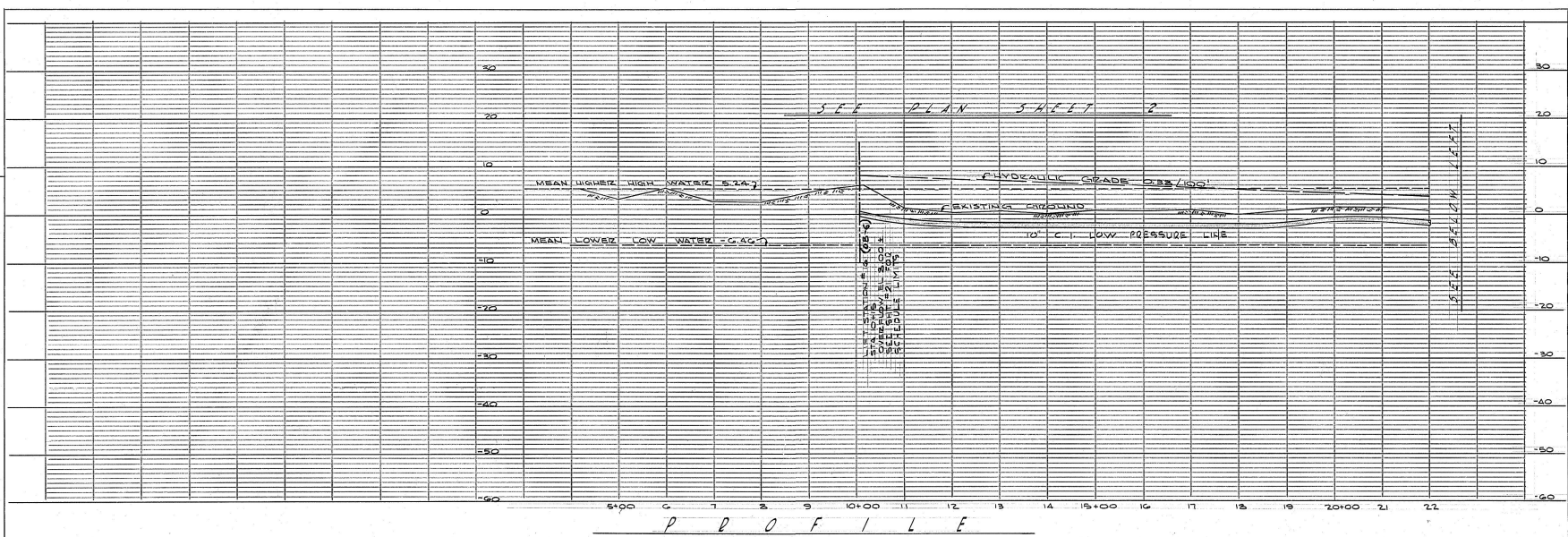
CITY OF BREMERTON	
KITAP COUNTY	WASHINGTON
OSTRICH BAY SEWAGE PROJECT	
PLAN - BAY VIEW DRIVE	
DATE: APRIL 1962	SCALE: NOTED
DRAWN: J. S. M.	SHEET 7
CHECKED: R. R. C.	OF 30

AS CONSTRUCTED	BY DATE APPR
NO.	REVISION



PLAN - BAY VIEW DRIVE

MICRO 1651-K
7/30



HORIZONTAL SCALE: 1"=100'
 VERTICAL SCALE: 1"=10'



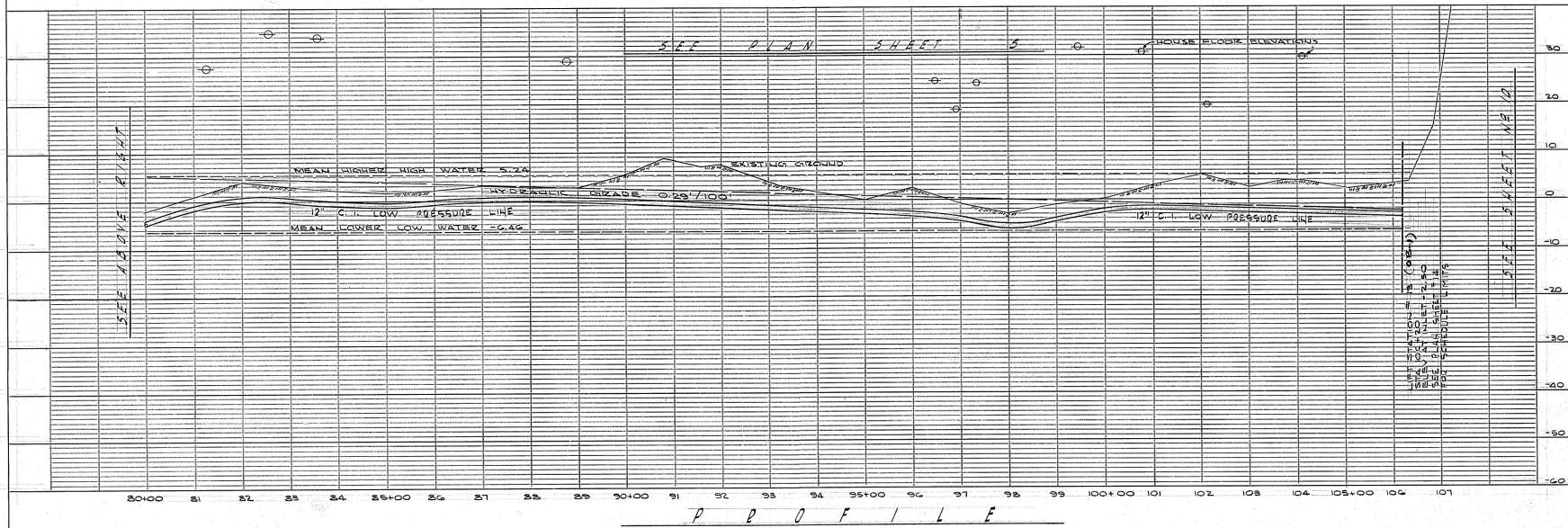
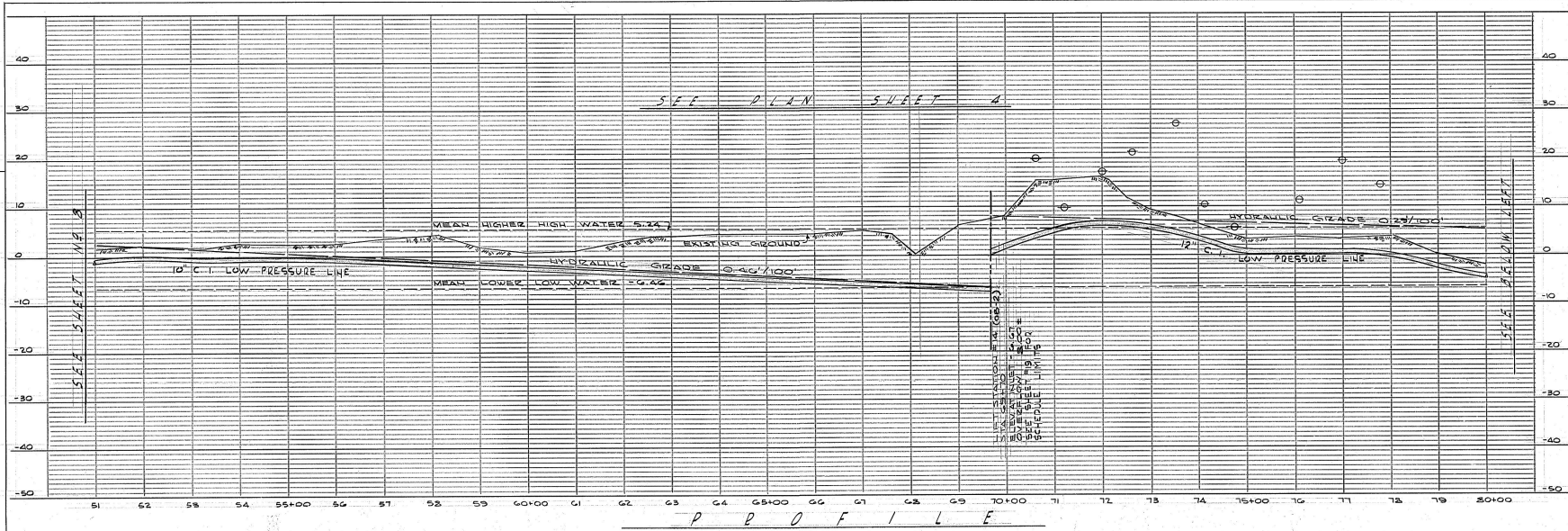
CITY OF BREMERTON
 KITSAP COUNTY WASHINGTON
OSTRICH BAY SEWERAGE PROJECT
PROFILE - OSTRICH BAY

DATE: APRIL 1985
 DRAWN: J.G.P.
 CHECKED: R.R.C.
 CONSULTING ENGINEERS
 SEATTLE, WASHINGTON

SCALE NOTED
 SHEET 8
 OF 30

NO.	REVISION	BY	DATE	APPROVED
1	AS CONSTRUCTED	RJK/PLA/RRC		

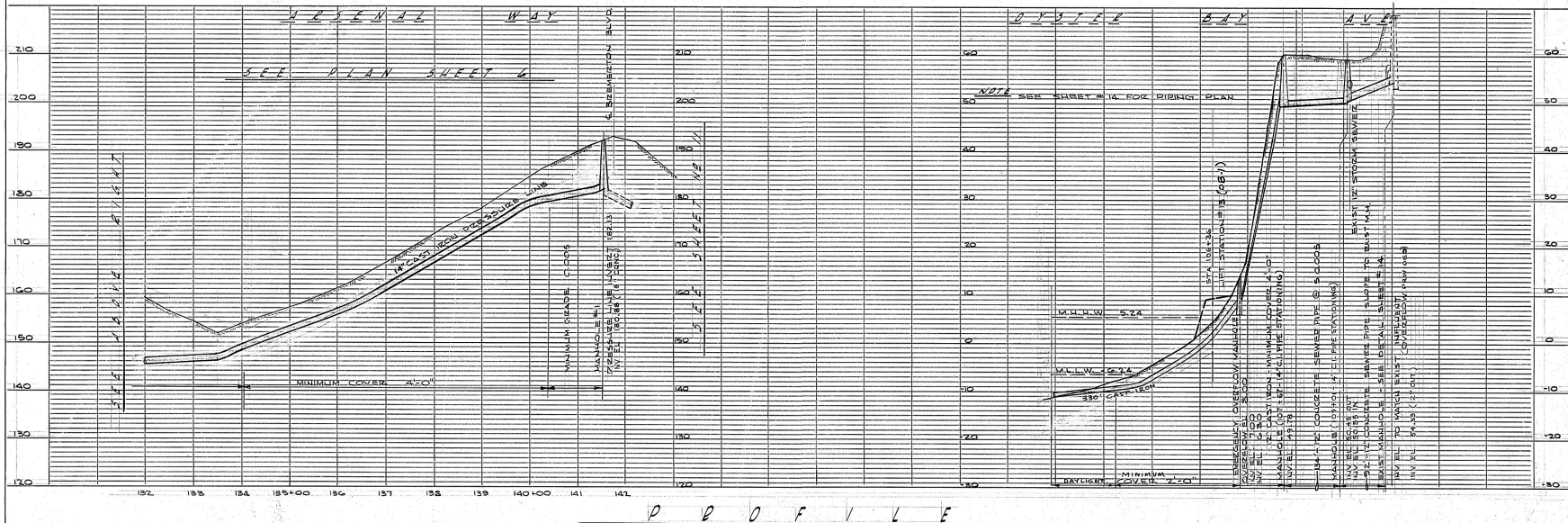
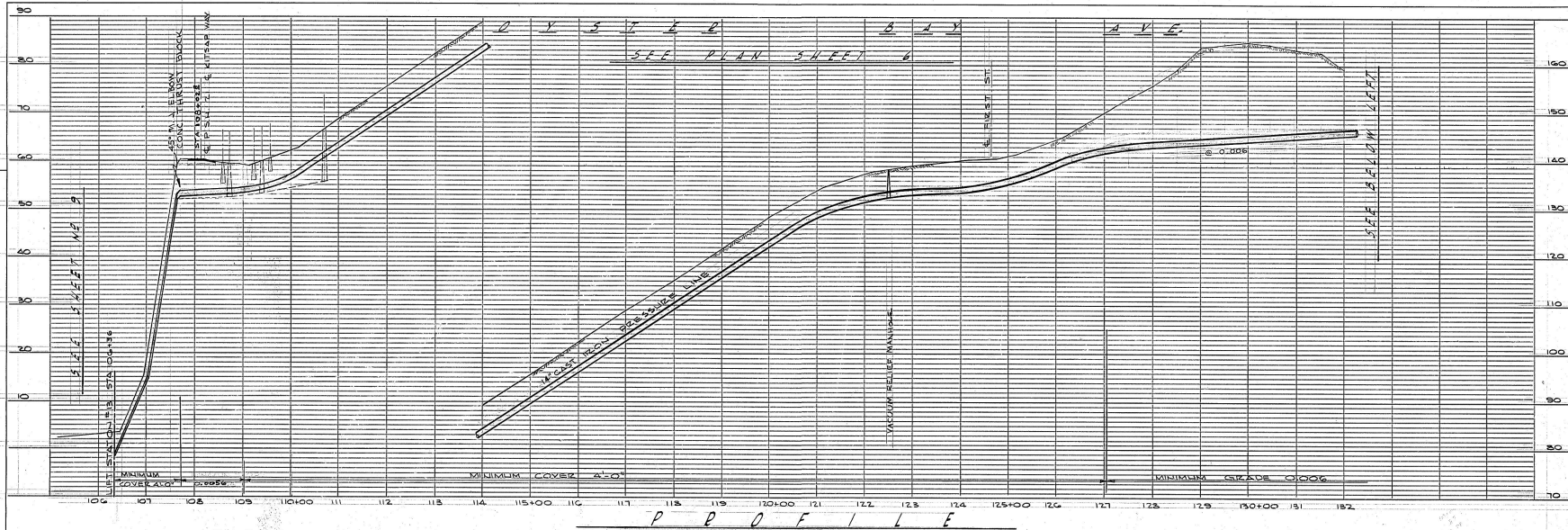
Micro 1891-L
 PROFILE - OSTRICH BAY



HORIZONTAL SCALE: 1"=100'
 VERTICAL SCALE: 1"=10'



CITY OF BREMERTON	
STRAPE COUNTY	WASHINGTON
OSTRICH BAY SEWERAGE PROJECT	
PROFILE - OYSTER BAY	
DATE: APRIL 1955	DRAWN: J. G. M.
DESIGNED: J. G. M.	CHECKED: R. E. C.
BY: DATE: APPROVED: E. T. D.	SCALE: NOTED
	BOARDS: 9
	DATE: 30
Gay + Osborne	
CONSULTING ENGINEERS	
SEATTLE & TACOMA	
WASHINGTON	



HORIZONTAL SCALE: 1"=100'
 VERTICAL SCALE: 1"=10'



CITY OF BREMERTON
 KITSAP COUNTY WASHINGTON
OSTRICH BAY SEWERAGE PROJECT
PROFILE - OYSTER BAY AVE.

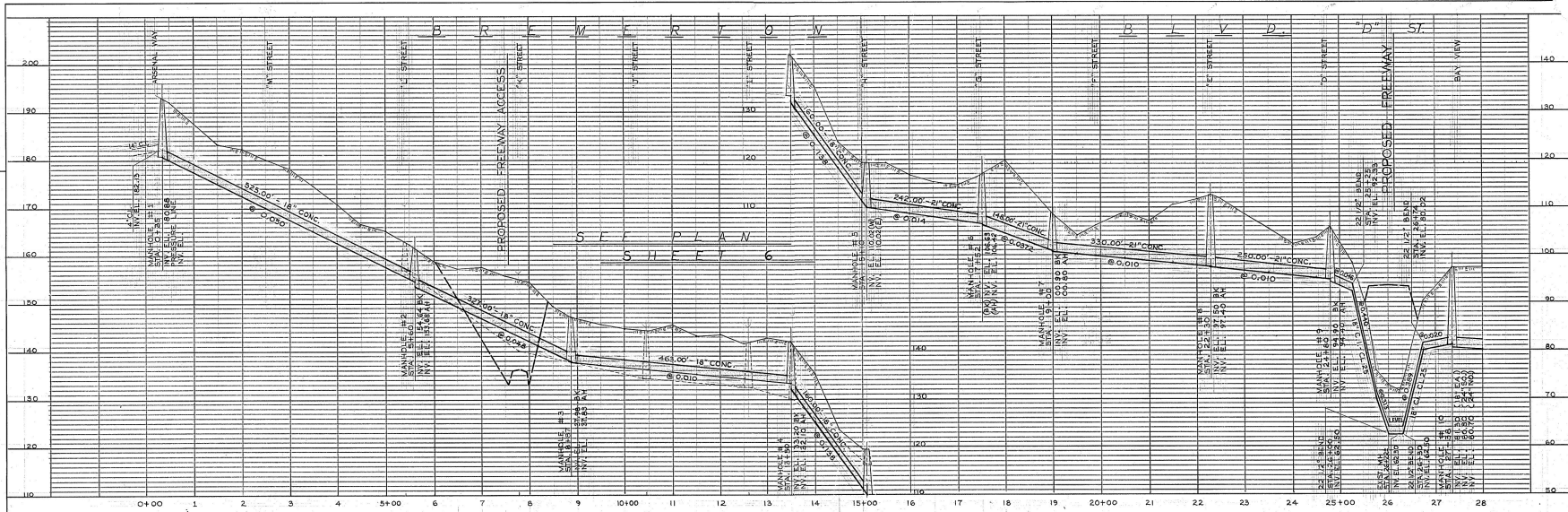
DATE: APRIL 1985
 DRAWN: J.G.M.
 CHECKED: R.E.C.
 APPROVED: J.T.B.

Gray & Osborne
 CONSULTING ENGINEERS
 SEATTLE & VANHATA
 WASHINGTON

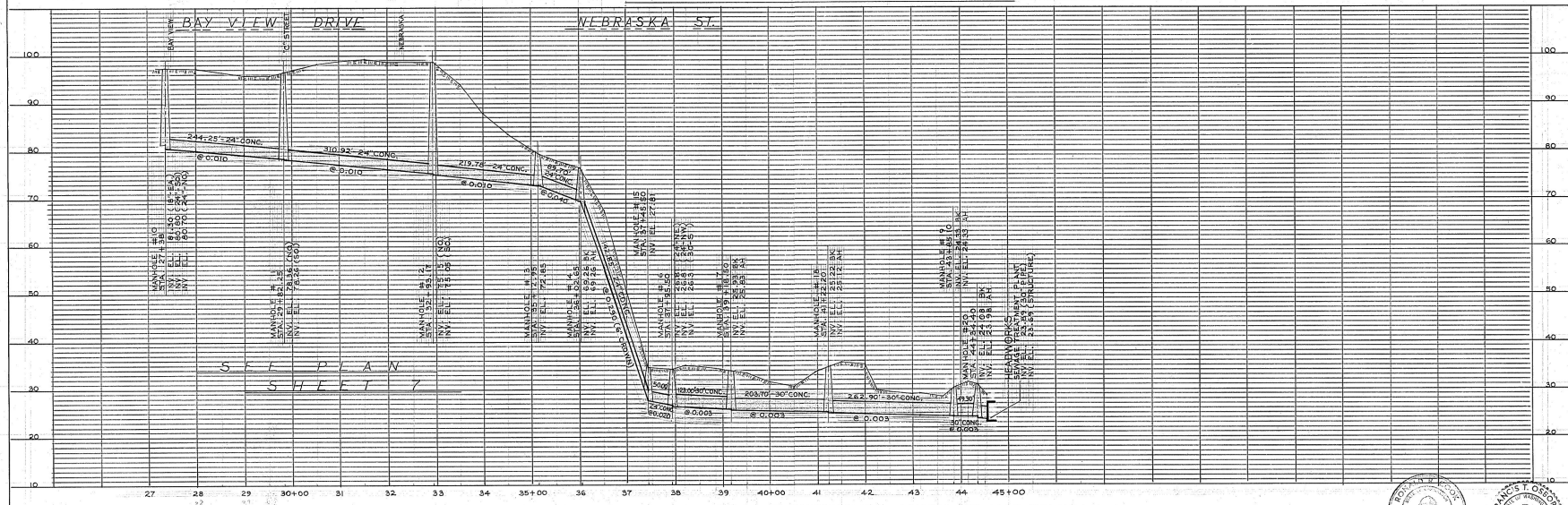
SCALE: NOTED
 SHEET 10
 OF 30

NO.	REVISION	BY	DATE	APPD.
1	AS CONSTRUCTED	RJK	05/85	REC

Micro 1887-A
 PROFILE - OYSTER BAY AVE.
 10/30



PROFILE



PROFILE

HORIZONTAL SCALE : 1" = 100'
 VERTICAL SCALE : 1" = 10'



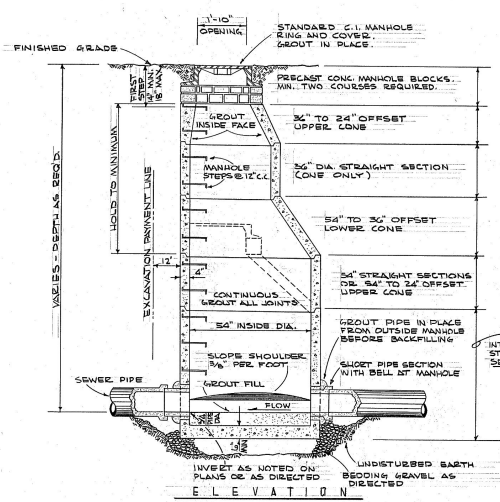
CITY OF BREMERTON
 KITSAP COUNTY WASHINGTON
OSTRICH BAY SEWERAGE PROJECT
PROFILE - BREMERTON BOULEVARD

DATE: APRIL, 1985
 DRAWN: R. J. K.
 CHECKED: R. E. C.
 APPROVED: R. E. C.

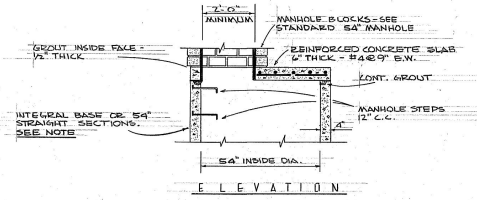
Gray + Osborne
 CONSULTING ENGINEERS
 SEATTLE & YAKIMA
 WASHINGTON

SCALE: AS SHOWN
 SHEET: 11
 OF 30

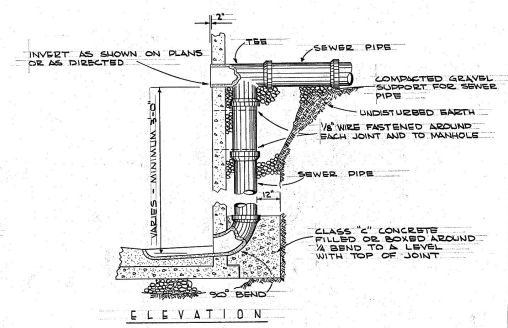




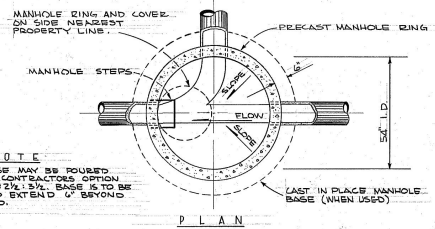
ELEVATION



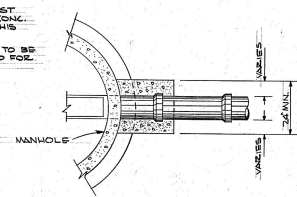
ELEVATION



ELEVATION



PLAN



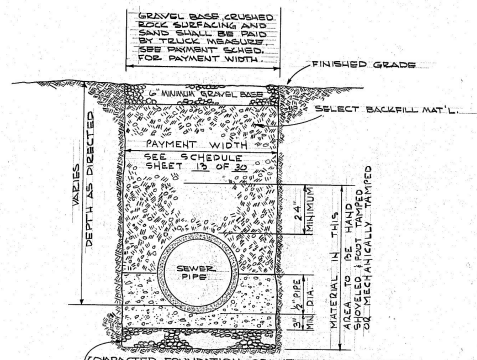
PLAN

PRECAST CONCRETE MANHOLES

SCALE: 1/4\"/>

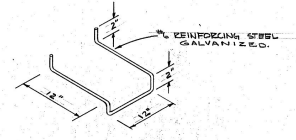
NOTES

- CONTRACTOR MAY USE CAST IRON PIPE IN PLACE OF CONC. PIPE FOR THE DROP AT HIS OPTION.
- CONCRETE ENCASUREMENT TO BE MESHED IN UNIT PRICE BID FOR DROP AT MANHOLE.



TYPICAL TRENCH SECTION - GENERAL

NO SCALE

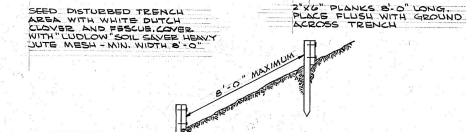


MANHOLE STEP

NO SCALE

DROP MANHOLE CONNECTION

SCALE: 1/4\"/>



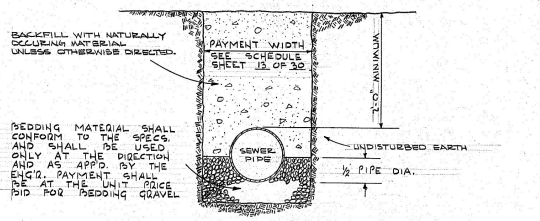
FINISHED GRADE

NOTES

- BANK PROTECTION INSTALLATION TO BE USED AS DIRECTED BY THE ENGINEER.
- ALL COST OF SEEDING, SOIL SAVING, AND LUMBER TO BE MERGED IN UNIT PRICE BID FOR SEWER PIPE.

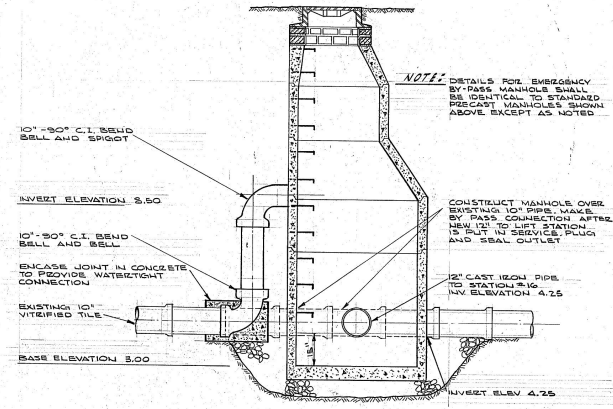
BANK PROTECTION DETAIL

NO SCALE



TYPICAL TRENCH SECTION - WATER-TIGHT

NO SCALE



EMERGENCY BY-PASS MANHOLE

SCALE: 1/4\"/>

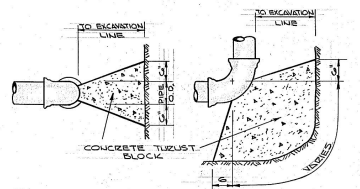
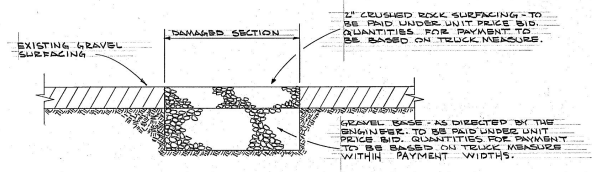
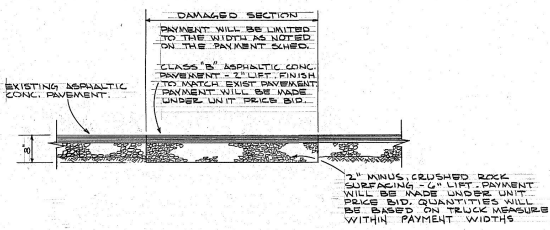
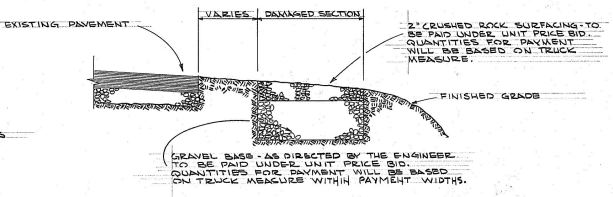
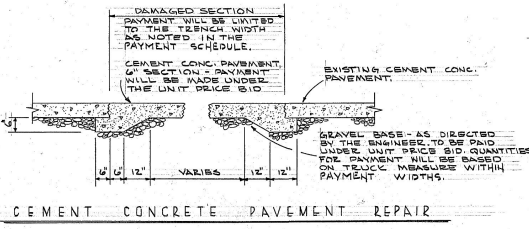
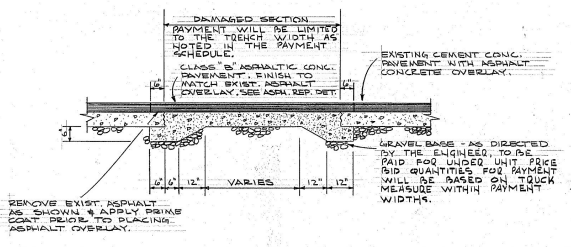


CITY OF BREMERTON
KITSAP COUNTY WASHINGTON
OSTRICH BAY SEWERAGE PROJECT
SEWER LINE DETAILS

DATE: APRIL 1985
DRAWN: E.S.D.
CHECKED: R.S.C.
DESIGNED: R.S.C.
CONSULTING ENGINEERS
SEATTLE & YAKIMA WASHINGTON

NO.	REVISION	BY	DATE	APPROVED
1	AS CONSTRUCTED	RJM	8/26	RJC

SEWER LINE DETAILS

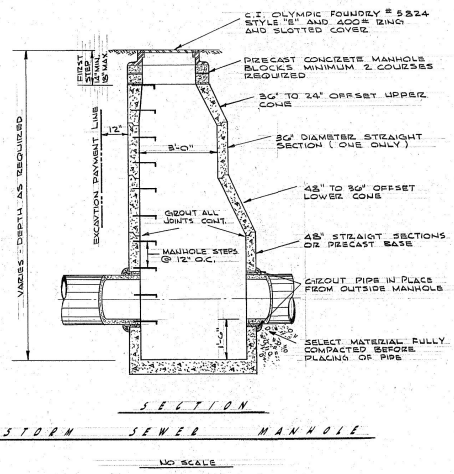
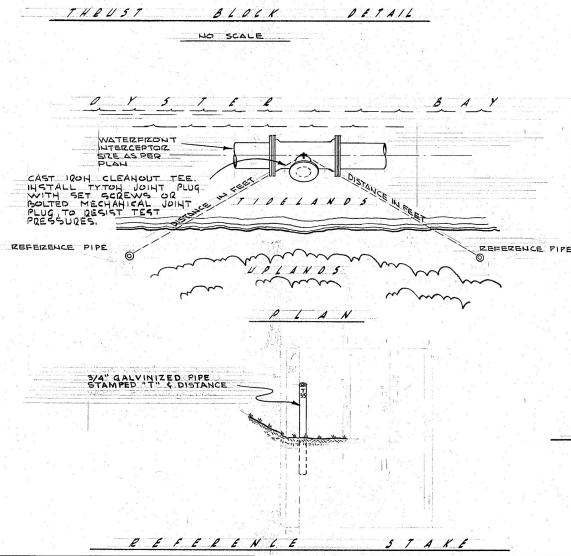


ASPHALT CONCRETE PAVEMENT REPAIR
NO SCALE

NOTE:
PAYMENT WILL BE MADE BY TRUCK MEASURE WITHIN THE BELOW PAYMENT WIDTHS.
NO PAYMENT WILL BE MADE FOR OVER EXCAVATION NOR FOR MATERIALS PLACED OUTSIDE OF THE BELOW PAYMENT WIDTHS.

NOMINAL PIPE DIAMETER	PAYMENT WIDTH FOR EXCAVATION FOUNDATION GRAVEL COBBLE STONES & BEDDING GRAVEL	PAYMENT WIDTH FOR ASPHALT CONCRETE PAVEMENT REPAIR GRAVEL BASE & CRUSHED ROCK SURFACING
6"	2' - 6"	4' - 0"
8"	2' - 6"	4' - 0"
10"	3' - 0"	4' - 2"
12"	3' - 10"	4' - 6"
14"	3' - 0"	4' - 8"
18"	3' - 4"	5' - 0"
24"	4' - 3"	6' - 4"

PAYMENT WIDTH SCHEDULE



CITY OF BREMERTON
KITAP COUNTY WASHINGTON

OSTRICH BAY SEWERAGE PROJECT
SEWER LINE DETAILS

DATE: APRIL 1983
DRAWN BY: [Signature]
CHECKED BY: [Signature]
APPROVED BY: [Signature]

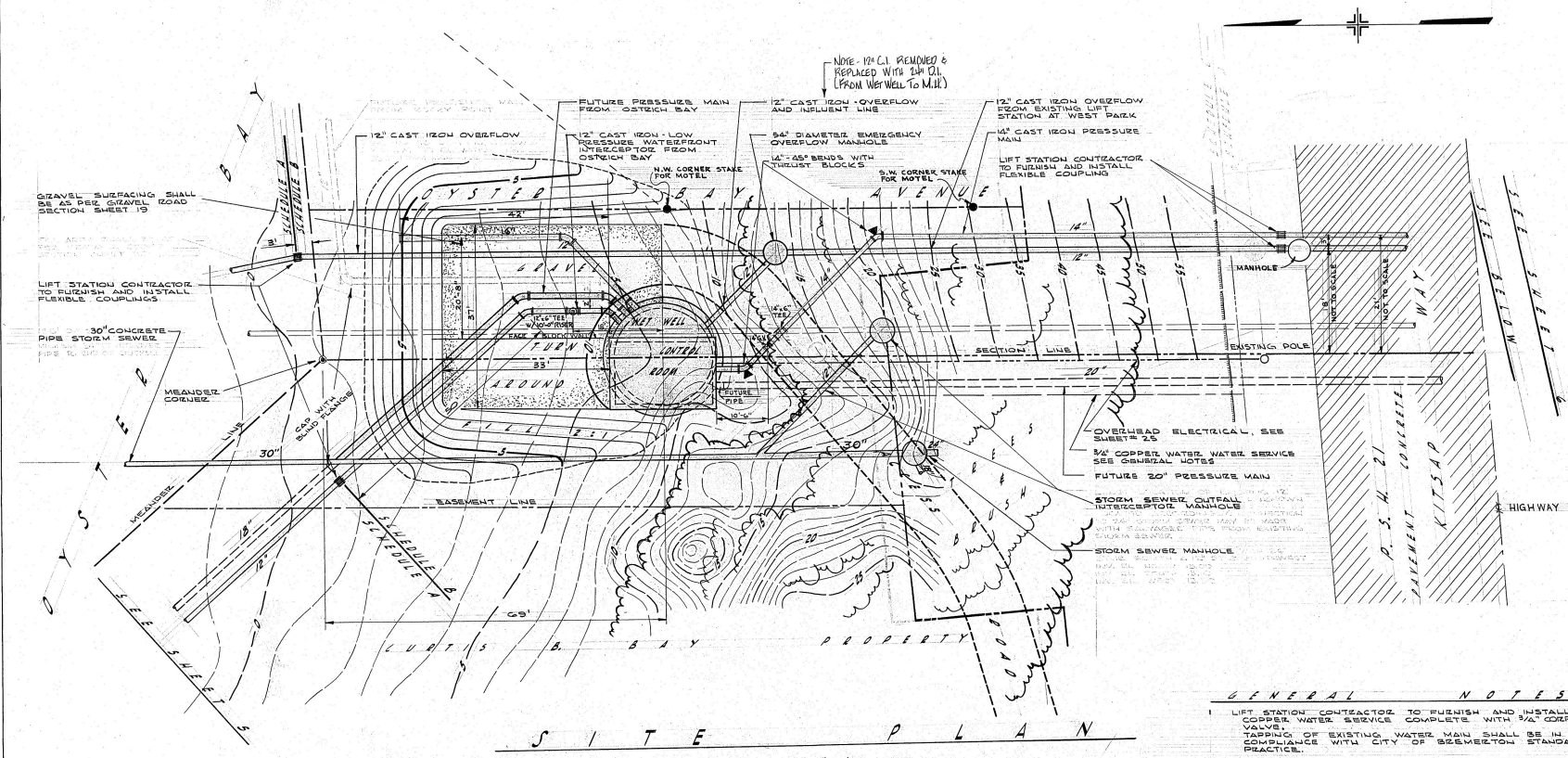
SCALE: NOTED
SHEET: 13 OF 30

1- AS. CONSTRUCTED
NO. REVISION BY DATE APPD APPROVER

BREM DETAILS - ADD WITH GENERAL MICRO 1987-9
CHECK UNITS OF MEAS. IN / ADD. TO
DETAIL & CHECK (TYP. PART. WIDTH)

SEWER LINE DETAILS

13

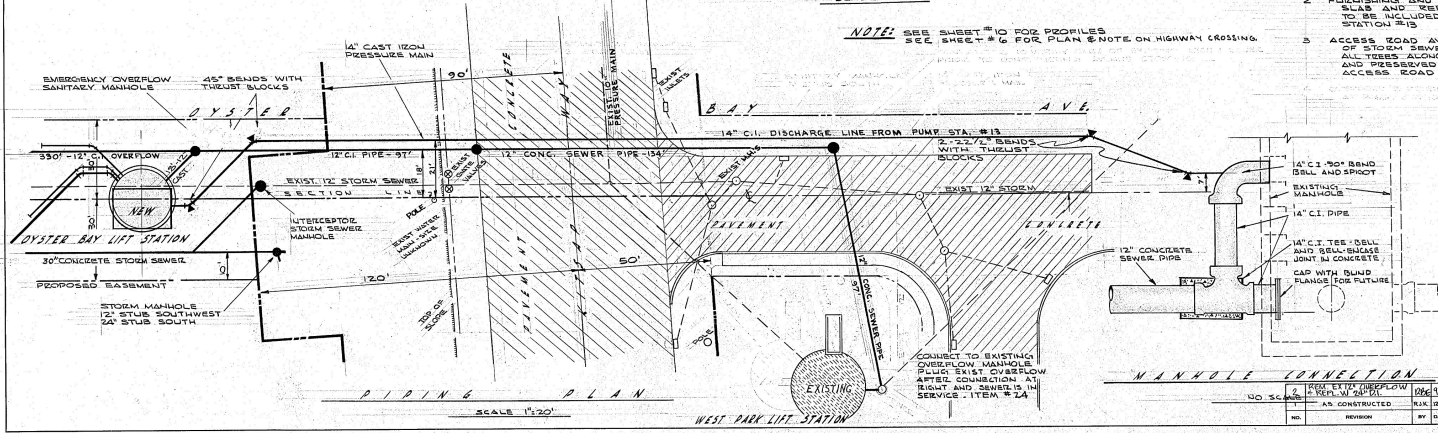


S I T E P L A N
SCALE 1"=10'

GENERAL NOTES

- LIFT STATION CONTRACTOR TO FURNISH AND INSTALL 3/4" COPPER WATER SERVICE COMPLETE WITH 3/4" COPPER VALVE. TAPPING OF EXISTING WATER MAIN SHALL BE IN COMPLIANCE WITH CITY OF BREMERTON STANDARD PRACTICE.
- FURNISHING AND INSTALLING FILL MATERIAL, GRADING, ENTRANCE SLAB AND REPLACING EXISTING STORM SEWER OUTFALL TO BE INCLUDED IN THE ITEM GRAVEL SURFACING FOR STATION #13
- ACCESS ROAD AVAILABLE TO CONTRACTOR UPON INSTALLATION OF STORM SEWER SYSTEM AND FILLING OF EXISTING LAINE. ALL TRUCKS ALONG HIGHWAY RIGHT OF WAY ARE TO BE RESTRICTED AND PRESERVED APPROXIMATE LOCATION OF LOCATION OF ACCESS ROAD TO BE AS SHOWN

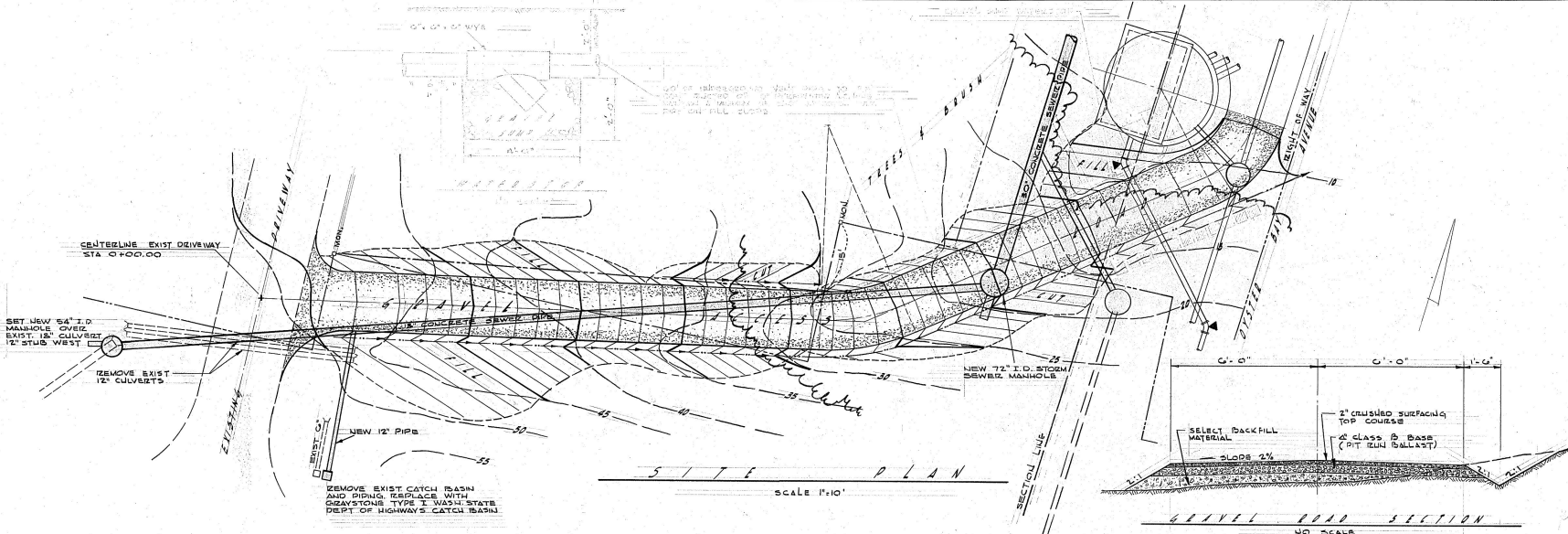
NOTE: SEE SHEET #10 FOR PROFILES
SEE SHEET #6 FOR PLAN & NOTE ON HIGHWAY CROSSING.



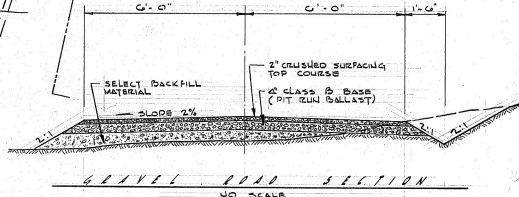
P I P I N G P L A N
SCALE 1/4"=1'00'



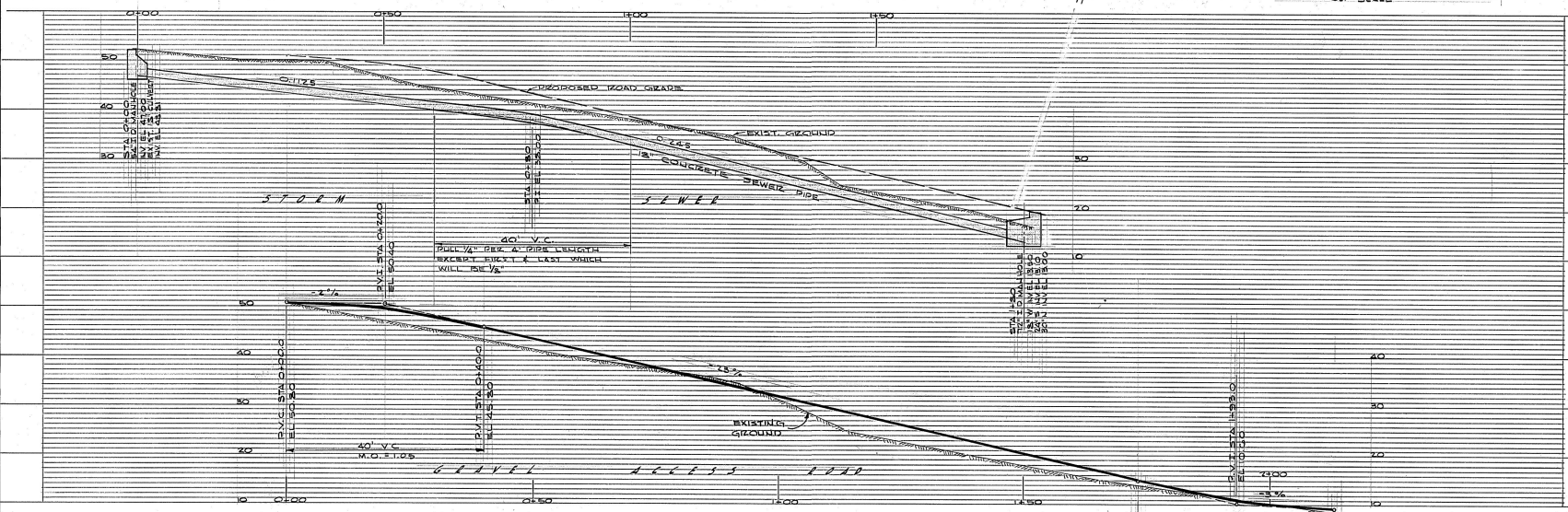
CITY OF BREMERTON KITSAP COUNTY WASHINGTON OSTREICH BAY SEWERAGE PROJECT PUMP STATION NO.13 - SITE PLAN		DATE: APRIL 1988 DRAWN: JGM CHECKED: JDS APPROVED: P.T.O.	SCALE: AS CONSTRUCTED SHEET: 14 A OF: 30
CONSULTING ENGINEERS Gray & Osborn SEATTLE & TACOMA WASHINGTON		PROJECT NO. 88-01 SHEET NO. 14 A DATE: APRIL 1988	DRAWN: JGM CHECKED: JDS APPROVED: P.T.O.



SITE PLAN
SCALE 1"=10'



GRAVEL ROAD SECTION
NO SCALE



PROFILE

HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE: 1"=10'

P.V.C. STA. 1130
E.L. 15.30
40' V.C.
M.O. 110
D.V.C. STA. 2130
E.L. 18.30

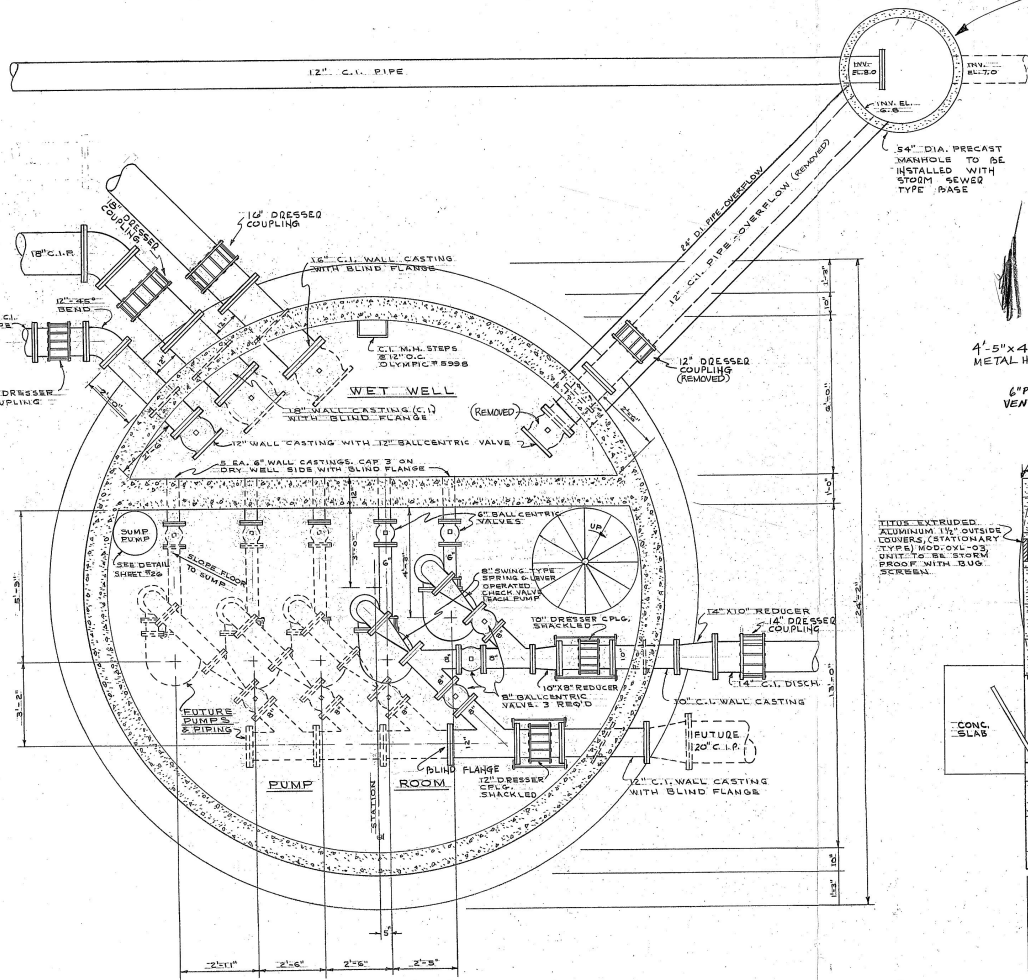


NO.	REVISION	BY	DATE	APP.
1	AS CONSTRUCTED	RJK	12/8	PRC
				APPROVED: R.E.C.

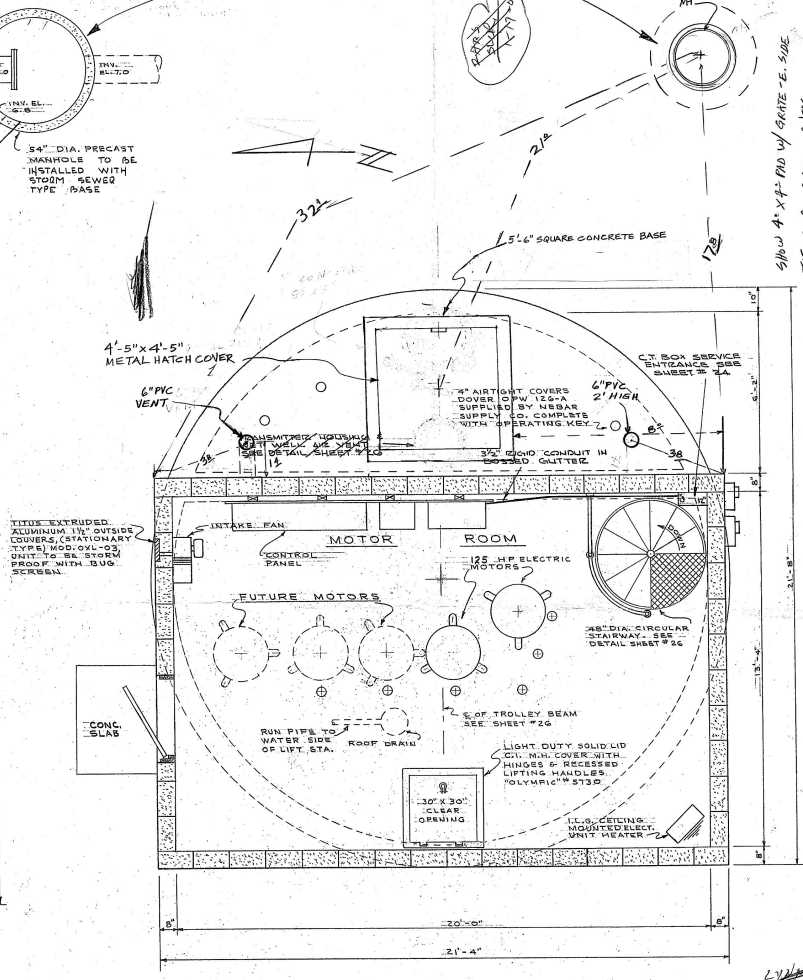
OB-1
CITY OF SEENERTON
KITSAW CO. WASHINGTON
OSTRICH BAY SEWERAGE PROJECT
LIFT STATION 13 ACCESS ROAD

DATE: 2/14/01
DRAWN: J.C.M.
CHECKED: R.E.C.
CONSULTING ENGINEERS
SEATTLE & VANUVA WASHINGTON

SCALE: NOTED
SHEET: 14-B
OF: 30



PUMP FLOOR PLAN
SCALE: 1/2" = 1'-0"



MOTOR FLOOR PLAN
SCALE: 1/2" = 1'-0"

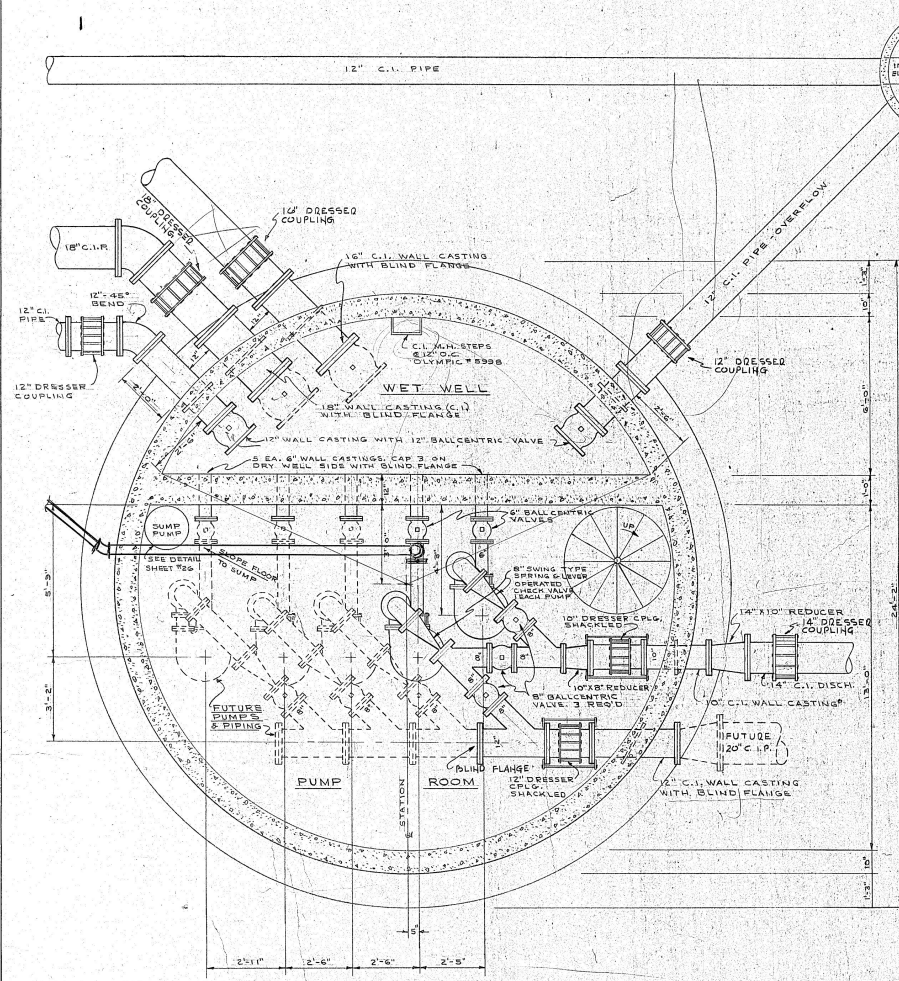
SHOW 4' X 4' PAD w/ GATE - E. SIDE
TIE TO PUMP STA. GARNIS

583
7061 RAS4

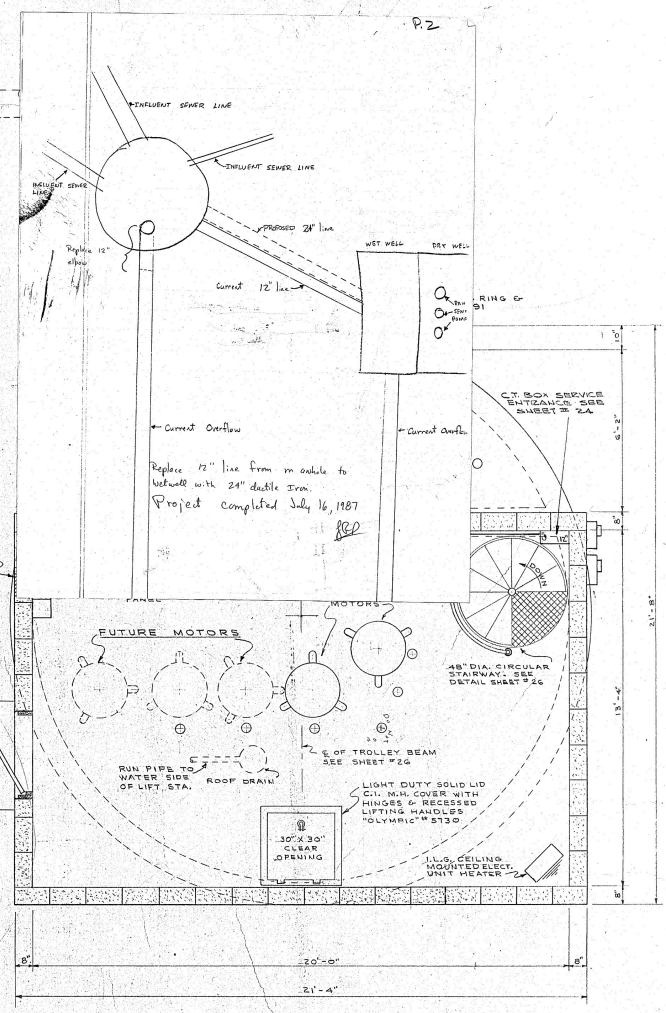
REVISED TO SHOW CONC. PAD/HATCH
1-17-06
DB-1



CITY OF BREMERTON				WASHINGTON			
KITSAP COUNTY				WASHINGTON			
OSTRICH BAY SEWERAGE PROJECT				WASHINGTON			
PUMP STATION NO. 13 - PIPING				WASHINGTON			
DATE: APRIL 1988				DATE: NOTED			
DRAWN: <i>R.H.</i>				CHECKED: <i>J.D.S.B.</i>			
DESIGNED: <i>J.D.S.B.</i>				APPROVED: <i>F.J.B.</i>			
DATE: APRIL 1988				DATE: NOTED			
CONSULTING ENGINEERS				DATE: 15			
BREMERTON, WASHINGTON				DATE: 30			



PUMP FLOOR PLAN
SCALE: 1/2" = 1'-0"



MOTOR FLOOR PLAN
SCALE: 1/2" = 1'-0"

Replace 12" line from outside to Wetwell with 24" ductile Iron.
Project completed July 16, 1987
RCP

TITUS EXTRUDED ALUMINUM 1 1/2" OUTSIDE COVERS, STATIONARY TYPE, MOD. OX-03, UNIT TO BE STORM PROOF WITH BUG SCREEN.



CITY OF BREMERTON
KITAP COUNTY WASHINGTON
OSTRICH BAY SEWERAGE PROJECT
PUMP STATION NO. 13 - PIPING

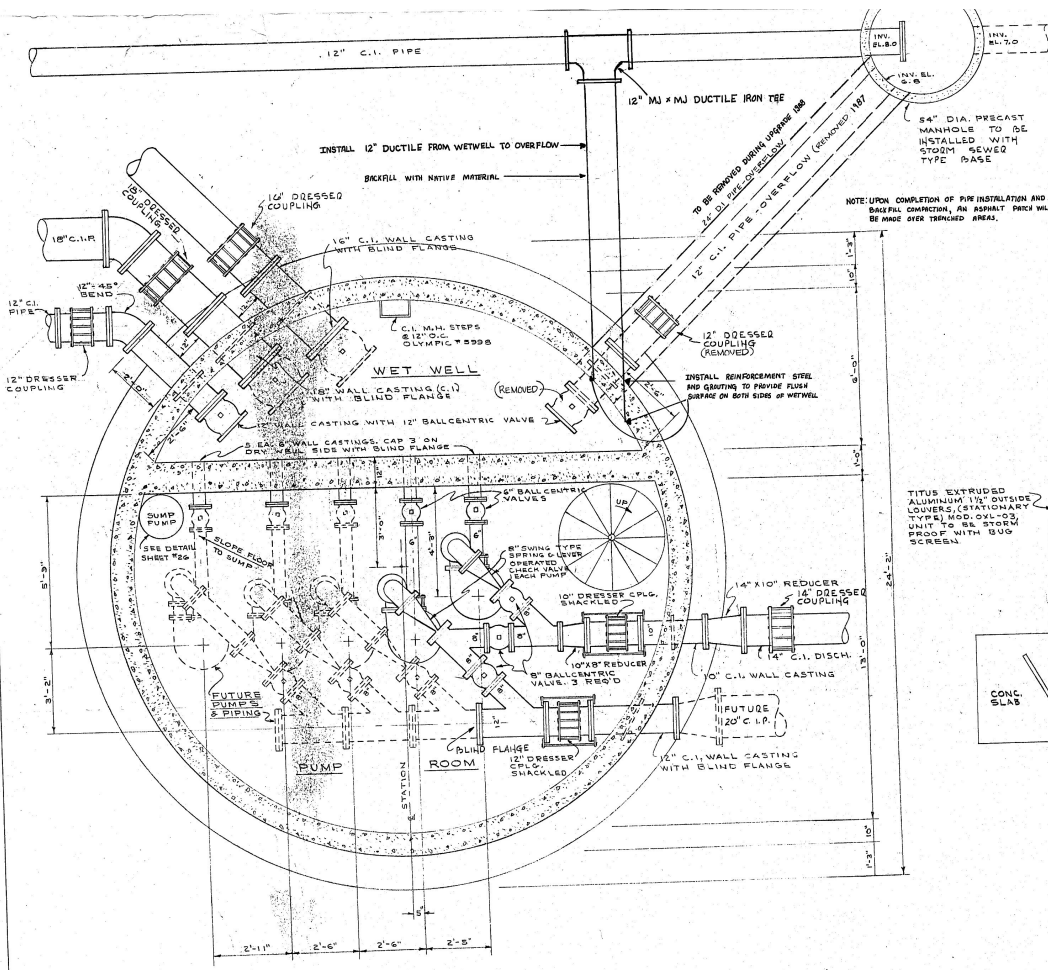
DATE: APRIL 1985
DRAWN: R.C.H.
CHECKED: J.D.S.B.
APPROVED: F.T.B.

Gray & Osborne
CONSULTING ENGINEERS
SEATTLE & PORTLAND WASHINGTON

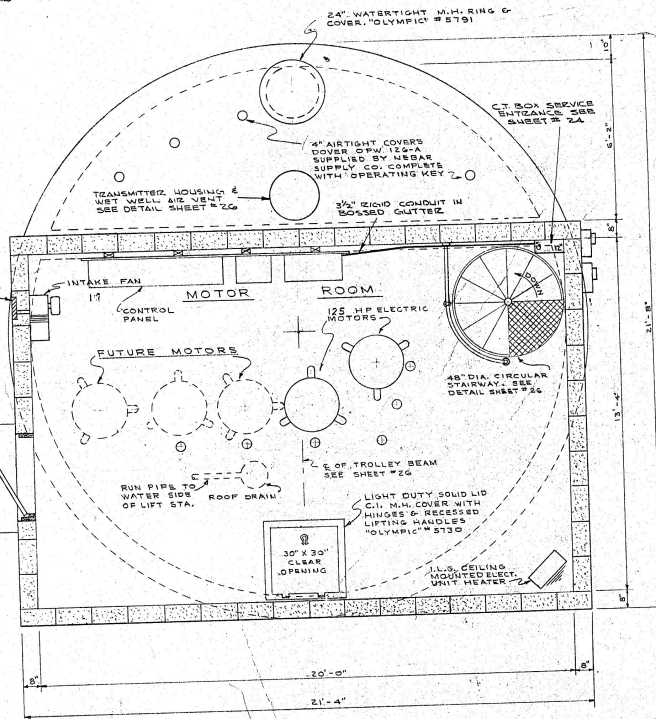
DATE: NOTED
SHEET: 15 OF 30

1	AS CONSTRUCTED	RJM	RJM	RRC	CHANGED	J.D.S.B.
NO.	REVISION	BY	DATE	APPD	APPROVED	F.T.B.





PUMP FLOOR PLAN
SCALE: 1/2" = 1'-0"



MOTOR FLOOR PLAN
SCALE: 1/2" = 1'-0"



CITY OF BREMERTON
KITSAP COUNTY
OSTRICH BAY SEWERAGE PROJECT
PUMP STATION NO. 13 - PIPING

DATE: APRIL 1988
DRAWN: R.O.B.
CHECKED: J.D.S.B.
BY: DATE APPROVED: P.F.B.

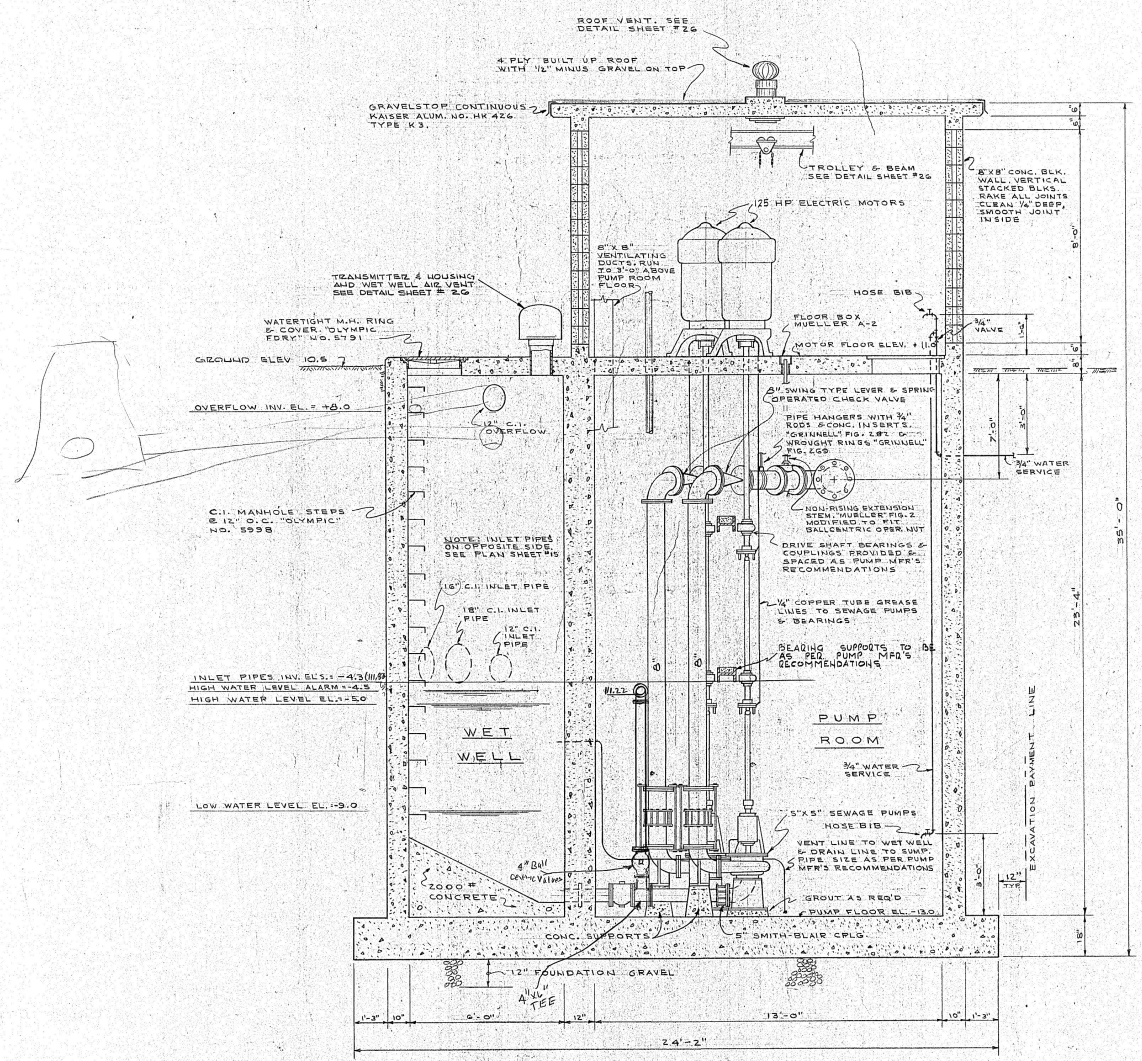
Scale: NOTED
SHEET 15 OF 30

OB-1 PIPING

2	ADDED 24\"/>			
1	AS CONSTRUCTED	R.K.	12/84	RRC
NO.	REVISION	BY	DATE	APPROVED

ORIG. + SEE REVISED COPY - Micap 1001-1
691 CH 2 M HILL DWG A-5 REV'D. 10/89

OB-1 PIPING



116.12
 10.5
 126.72

118.12
 -4.3
 113.82

116.12
 -9.00
 107.12

116.12
 13.00
 129.12

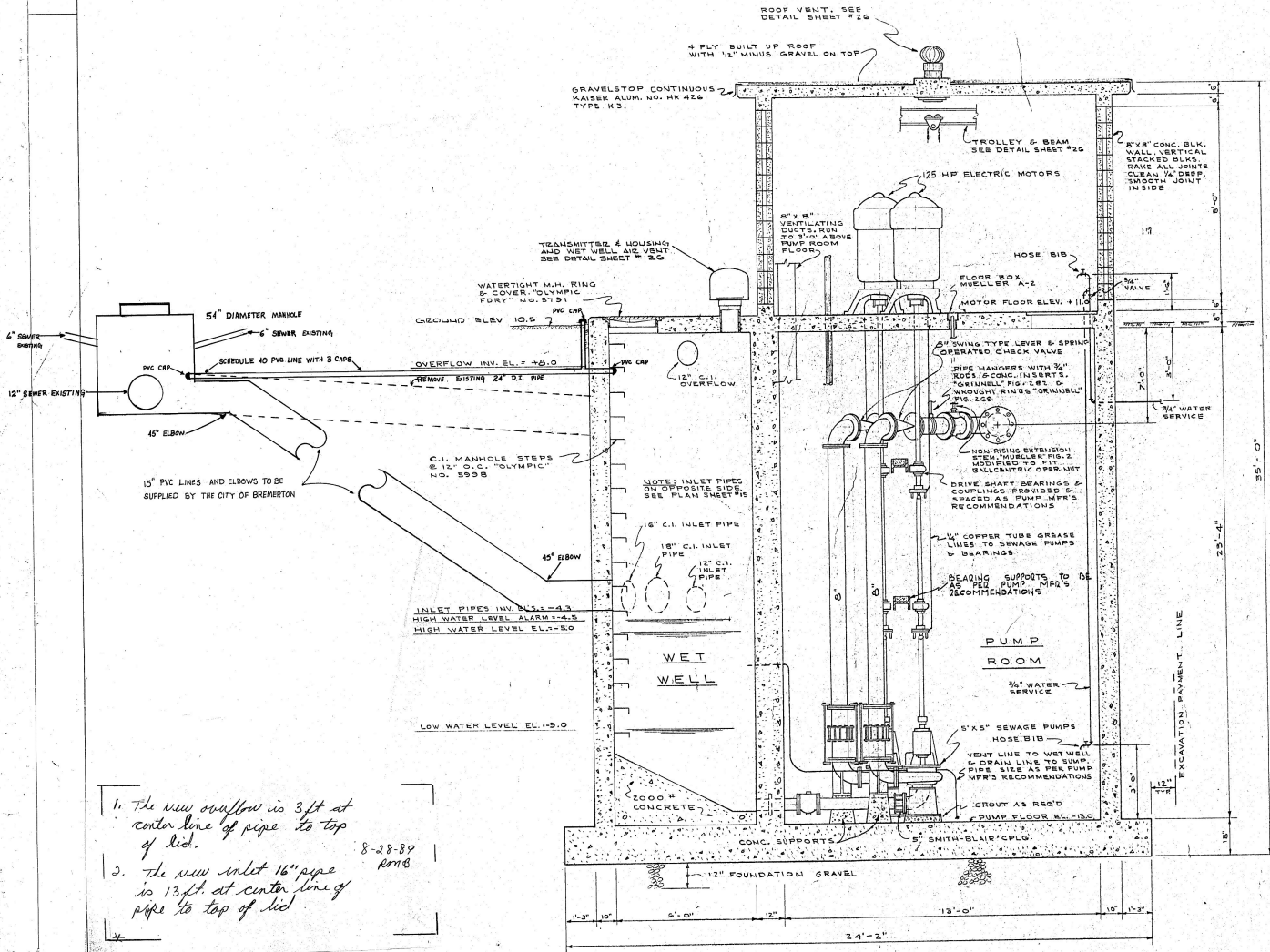
ELEVATION SECTION
 SCALE: 1/2" = 1'-0"



CITY OF BREMERTON		WASHINGTON	
KITSAP COUNTY		WASHINGTON	
OSTRICH BAY SEWERAGE PROJECT			
PUMP STATION NO. 13 - PIPING			
DATE: APRIL 1981	DRAWN: R.D.N.	CHECKED: J.D.S.B.	SCALE: AS SHOWN
Gray & Osborne		CONSULTING ENGINEERS	
SEATTLE & VANANDA WASHINGTON		SHEET 16 OF 30	

NO.	REVISION	BY	DATE	APPROVED
1	AS CONSTRUCTED	J.R.K.	12/14/80	J.D.S.B.

L.S. #13
 sheet 16



1. The new overflow is 3ft at center line of pipe to top of lid.
 2. The new inlet 16" pipe is 13ft. at center line of pipe to top of lid.
- 8-28-89
RMB

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



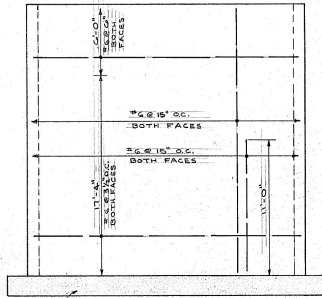
C8

CITY OF BREMERTON	
KITSAP COUNTY	WASHINGTON
OSTRICH BAY SEWERAGE PROJECT	
PUMP STATION NO. 13 - PIPING	
DATE: APRIL 1988	SCALE: NOTED.
DRAWN BY: P.H.	GRAY & OSBORNE
ENGINEER: J.D.S.B.	CONSULTING ENGINEERS
APPROVED: P.T.G.	SEATTLE & YAKIMA WASHINGTON

NO.	REVISION	BY	DATE	APPROVED
1	AS CONSTRUCTED	RJK	11/11/88	J.D.S.B.

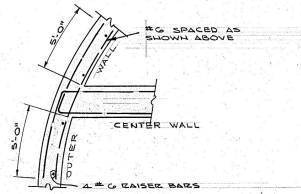
ORIG. SEE REVISION COPY - MICRO 1897-14
CH2M HILL DNS. A-B REVID. 10/89

OB-1 PIPING

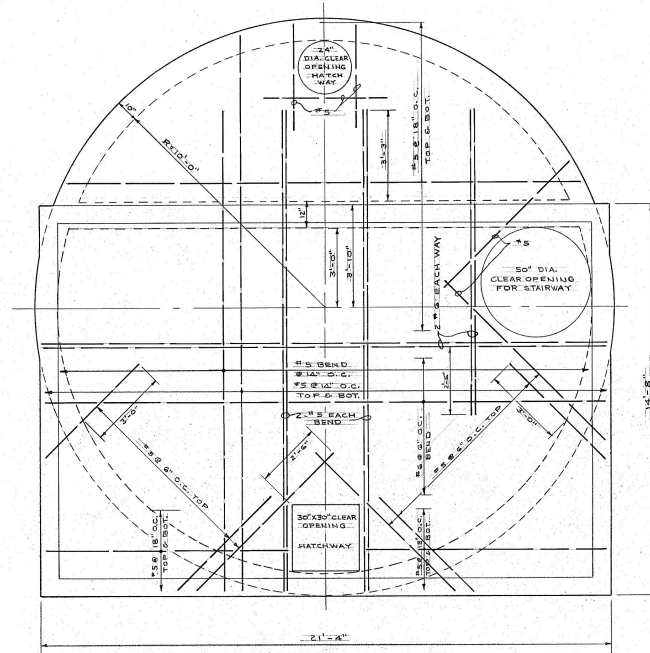


SEE SHEET #17 FOR
BOTTOM SLAB REINF.

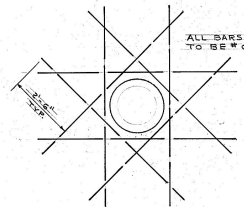
CENTER WALL REINFORCEMENT
ELEVATION
SCALE: 1/2" = 1'-0"



CENTER WALL REINFORCING
EMBEDMENT IN OUTSIDE WALL
NO SCALE



MOTOR FLOOR PLAN
SCALE: 1/2" = 1'-0"



TYPICAL WALL OPENING
NO SCALE



SEE BENDING & DETAIL SHEETS
PREPARED BY STEEL FABRICATOR



02-1

CITY OF BREMERTON
KITAP COUNTY WASHINGTON

OSTRICH BAY SEWERAGE PROJECT
RUMP STATION IS-STRUCTURAL

DATE: APRIL 1988 DRAWN: P.S.H. CHECKED: R.R.C. NOTED: []

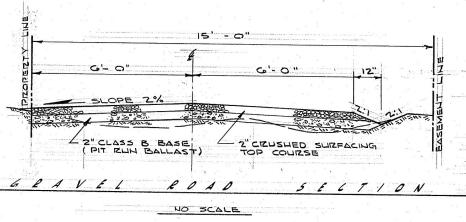
DESIGNED BY: **Gray & Osborne** CONSULTING ENGINEERS
SEATTLE & YAKIMA WASHINGTON

SHEET 18 OF 30

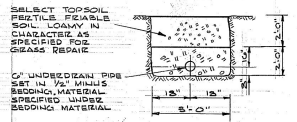
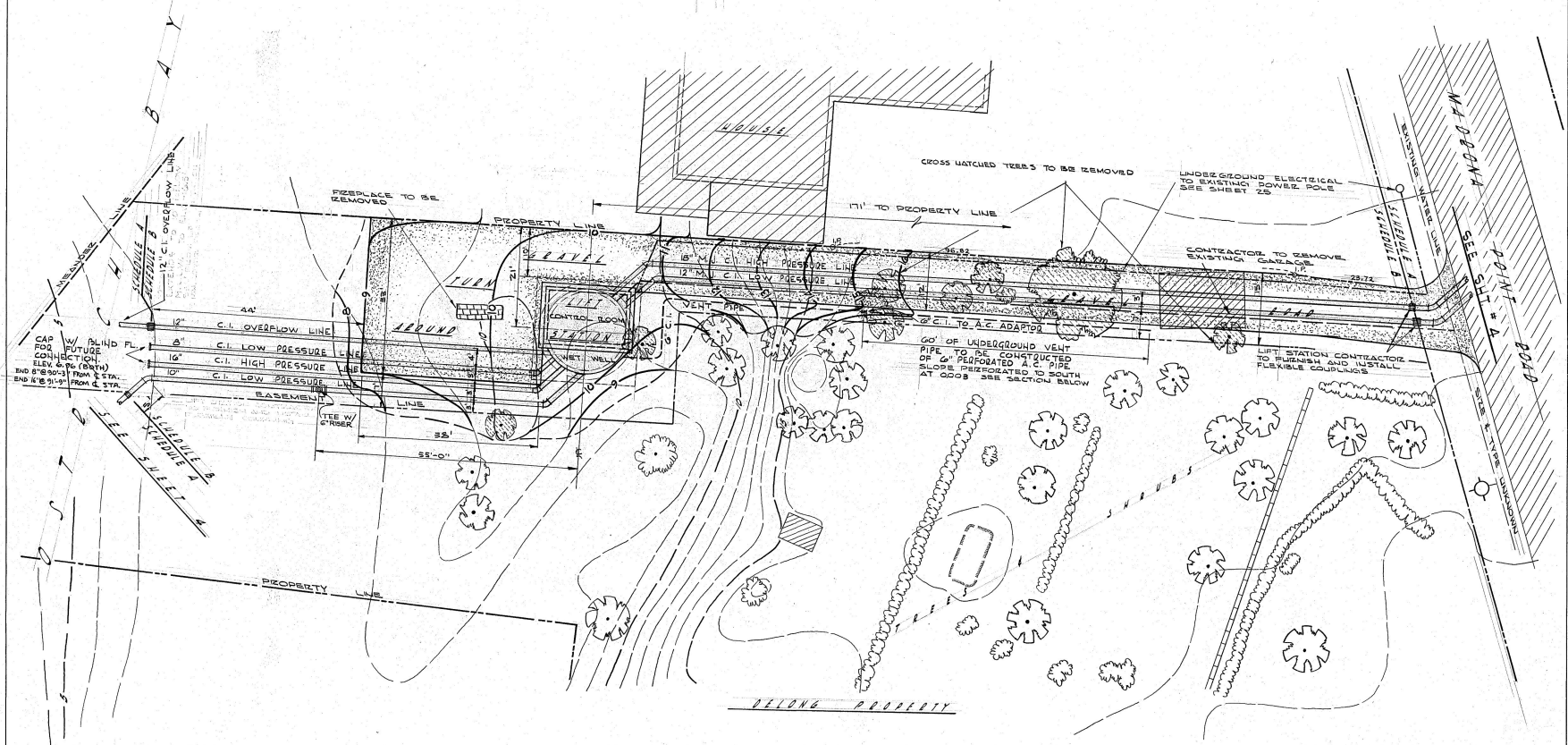
DATE: CLASS: 5

NO.	REVISION	BY	DATE	APP'D	APPROVED
1	AS CONSTRUCTED	R.J.V.	2/24/88	PER	Checked: R.R.C.
					Approved: P.F.O.

Dis. #13 MICRO 1887-W



- GENERAL NOTES**
- FURNISHING AND INSTALLING FULL MATERIAL, GRAVEL, DRIVEWAY, UNDERGROUND VENT SYSTEM, REMOVAL OF EXISTING GARAGE AND SITE GRADING ARE TO BE INCLUDED IN THE TERM GRAVEL SURFACING AND SITE GRADING FOR STATION #14.
 - CONTRACTOR TO FURNISH AND INSTALL 3/4" COPPER WATER SERVICE COMPLETE WITH 3/4" COPPERIZATION VALVE.



08-2
CITY OF BREMERTON
KITAP COUNTY WASHINGTON
OSTRICH BAY SEWERAGE PROJECT
PUMP STATION NO. 14 - SITE PLAN

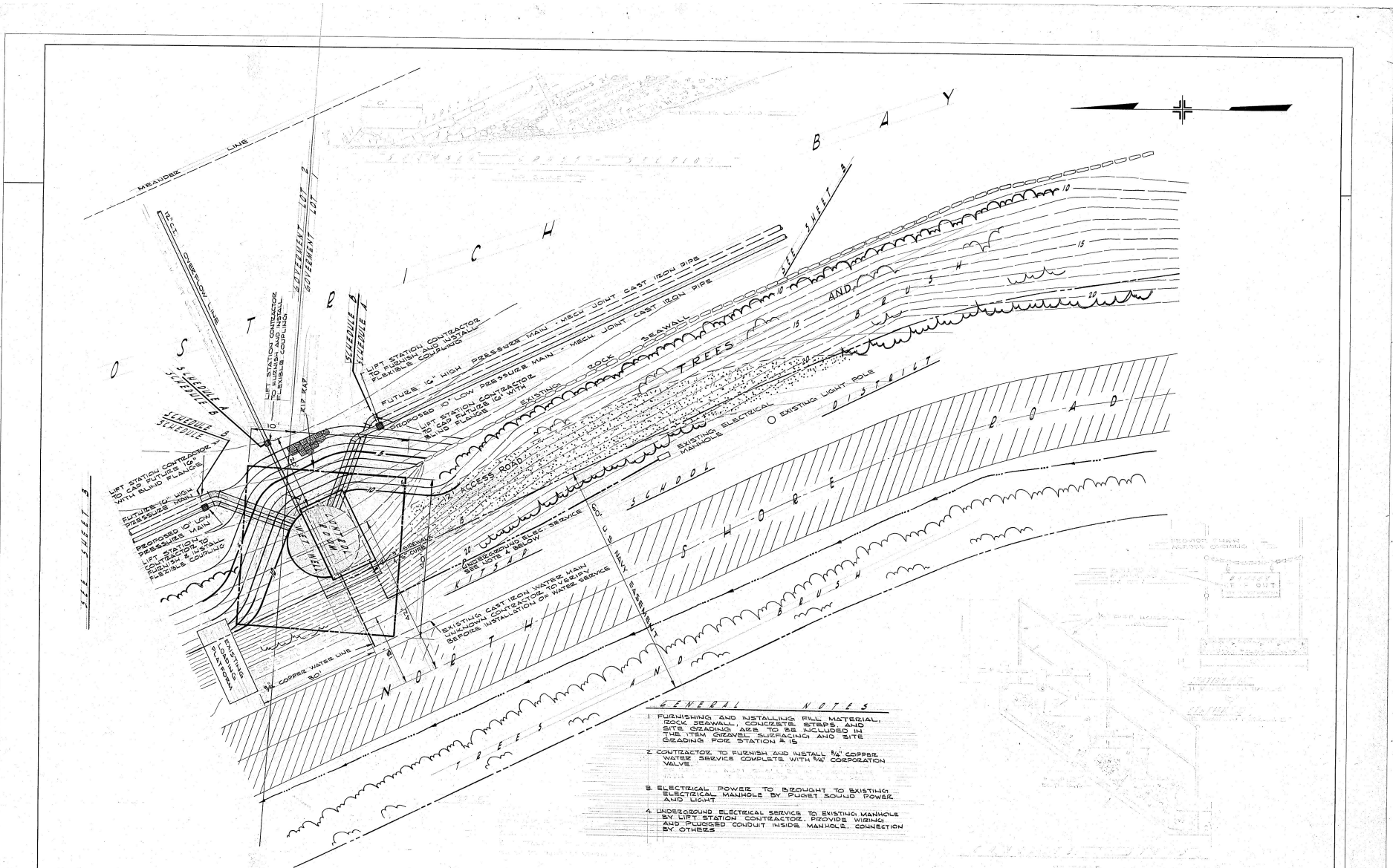
DATE: APRIL 1983
DRAWN: J.G.M.
CHECKED: J.S.B.
APPROVED: P.T.O.

Gray & Osborne
CONSULTING ENGINEERS
SEATTLE & VANUVA
WASHINGTON

SCALE NOTED
SHEET 19
OF 30



1.	AS CONSTRUCTED	RJK	1/4/83	RRC	CHECKED	J.S.B.	DATE APPROVED	P.T.O.
----	----------------	-----	--------	-----	---------	--------	---------------	--------



- GENERAL NOTES**
1. FURNISHING AND INSTALLING FILL MATERIAL, ROCK SEAWALL, CONCRETE STEPS, AND SITE GRADING ARE TO BE INCLUDED IN THE ITEM GENERAL SURFACING AND SITE GRADING FOR STATION # 15.
 2. CONTRACTOR TO FURNISH AND INSTALL 1/2" COPPER WATER SERVICE COMPLETE WITH WA CORPORATION VALVE.
 3. ELECTRICAL POWER TO BE BROUGHT TO EXISTING ELECTRICAL MANHOLE BY PUGET SOUND POWER AND LIGHT.
 4. UNDERGROUND ELECTRICAL SERVICE TO EXISTING MANHOLE BY LIFT STATION CONTRACTOR, PROVIDE WIRING AND PLUGGED CONDUIT INSIDE MANHOLE. CONNECTION BY OTHERS.

S I T E P L A N

SCALE: 1"=10'



OB-5

CITY OF BREMERTON
 KITSAP COUNTY
 BREMERTON
OSTRICH BAY SEWERAGE PROJECT
PUMP STATION NO. 15 SITE PLAN

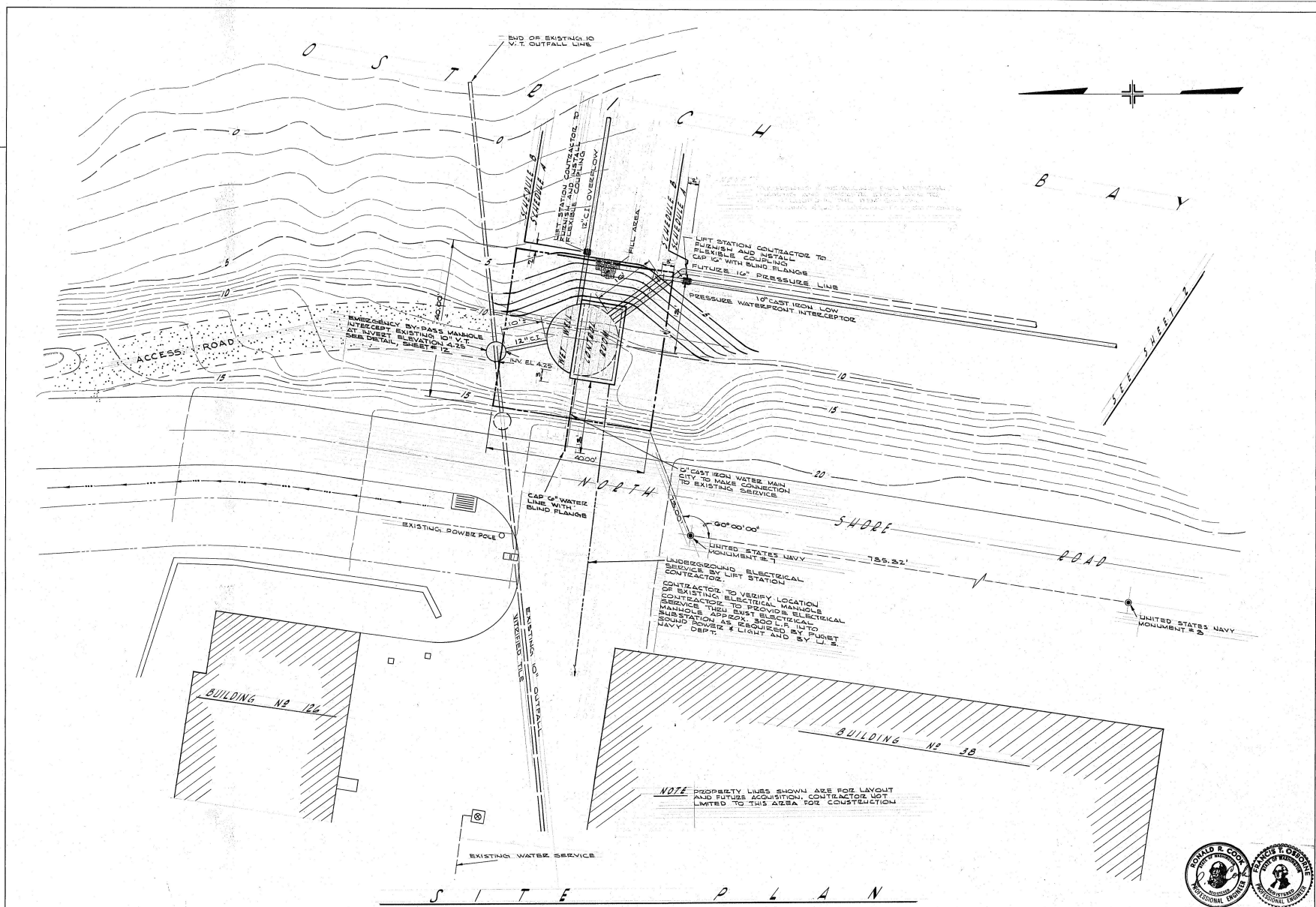
DATE: APRIL 1988
 DRAWN: JGM
 CHECKED: S.E.C.
 APPROVED: E.C.

Gray + Osborn
 CONSULTING ENGINEERS
 SEATTLE & YAKIMA
 WASHINGTON

SCALE: NOTED
 SHEET 20
 OF 30

NO.	REVISION	BY	DATE	APPROVED
1	AS CONSTRUCTED	BLK	10/1/88	REC

PUMP STATION #15-SITE PLAN
 11/10/88



NOTE: PROPERTY LINES SHOWN ARE FOR LAYOUT AND FUTURE ACQUISITION. CONTRACTOR NOT LIMITED TO THIS AREA FOR CONSTRUCTION.

S I T E P L A N

SCALE: 1" = 10'



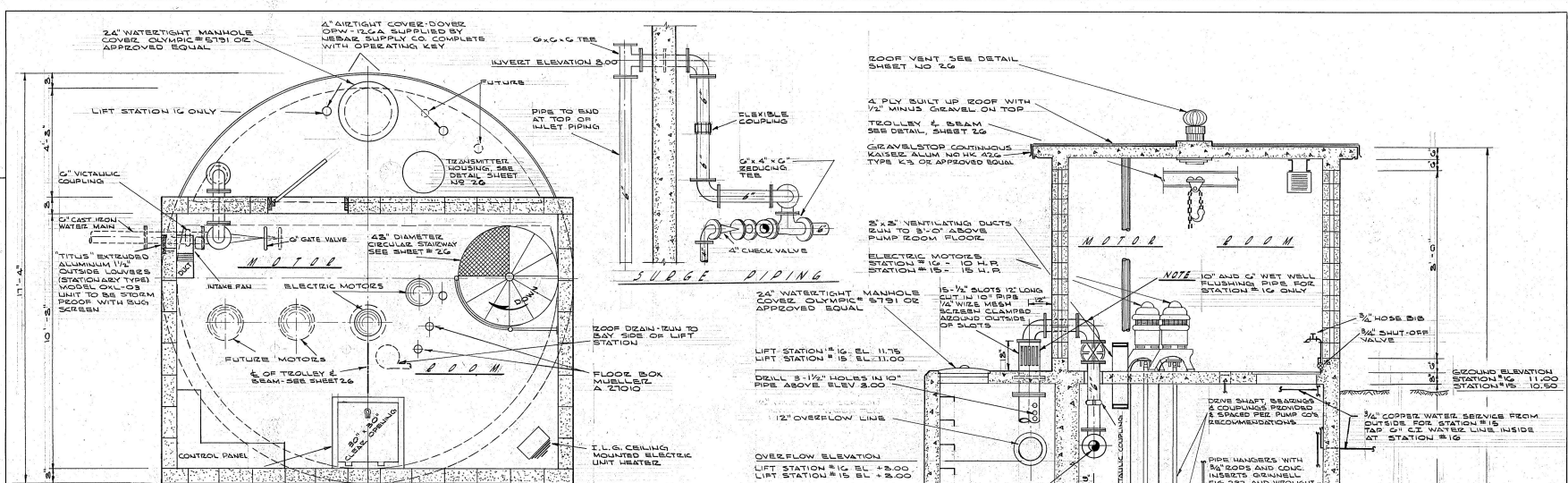
CITY OF BREMERTON
 KITAP COUNTY WASHINGTON
 OSTRICH BAY SEWERAGE PROJECT
 PUMP STATION NO. 16 SITE PLAN (08-6)

DATE: APRIL 2008
 DRAWN: J.G.M.
 CHECKED: R.R.C.
 APPROVED: R.R.C.
 CONSULTING ENGINEERS
 SEATTLE & YAKIMA WASHINGTON

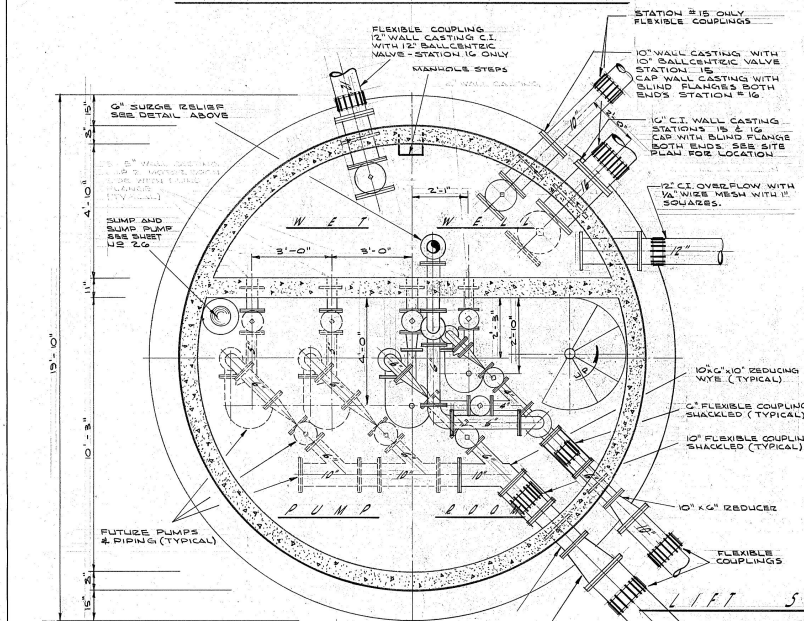
SCALE: NOTED
 SHEET 21
 OF 30

NO.	REVISION	BY	DATE	APPROVED
1	AS CONSTRUCTED	RJK	1/16/08	RRC

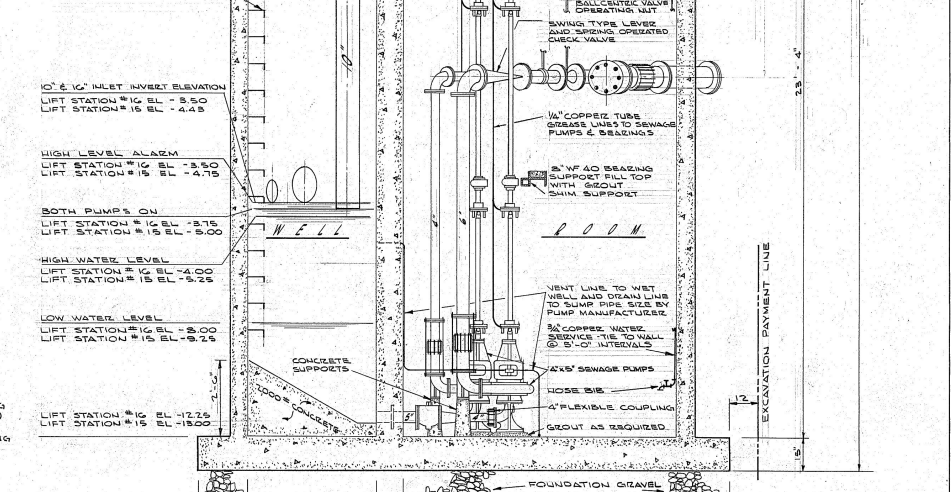
PUMP STATION #16 - SITE PLAN
 Micro 1887-2
 1/30



MOTOR FLOOR PLAN



PUMP FLOOR PLAN

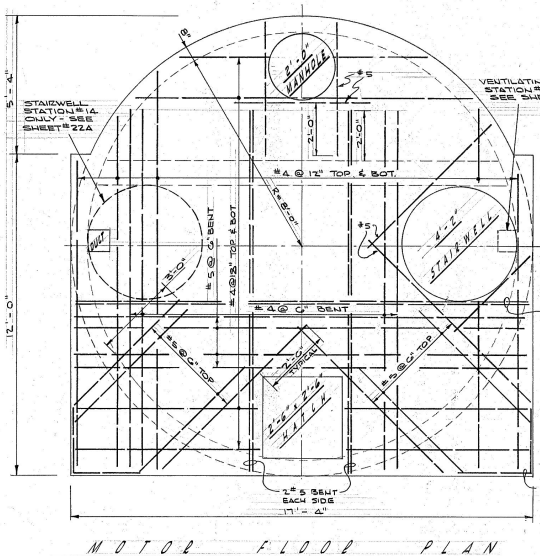


ELEVATION

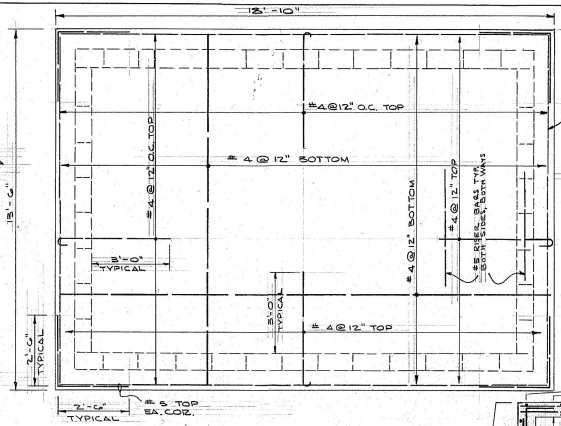
SCALE 1/2"=1'-0"



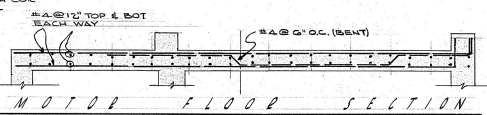
CITY OF BREMERTON	
KITAP COUNTY WASHINGTON	
OSTRICH BAY SEWERAGE PROJECT	
PUMP STATIONS 15 & 16 PIPING	
DATE: APRIL 1981	SHEET: 22 B
DRAWN: J. S. M.	NOTES: 30
CHECKED: J. D. S. B.	BY: DATE APPR: APPROVED: F.T.G.
Eny & Oborne CONSULTING ENGINEERS SEATTLE & VANUWA WASHINGTON	



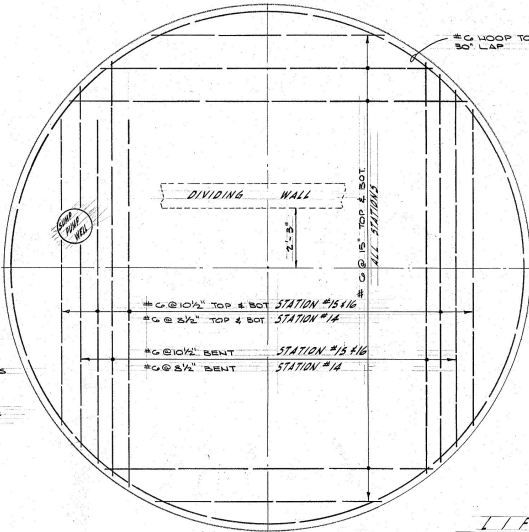
MOTOR FLOOR PLAN



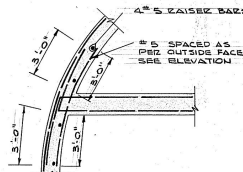
ROOF PLAN



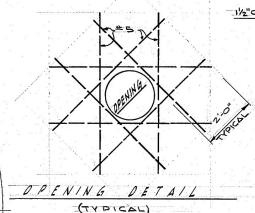
MOTOR FLOOR SECTION



PUMP FLOOR PLAN



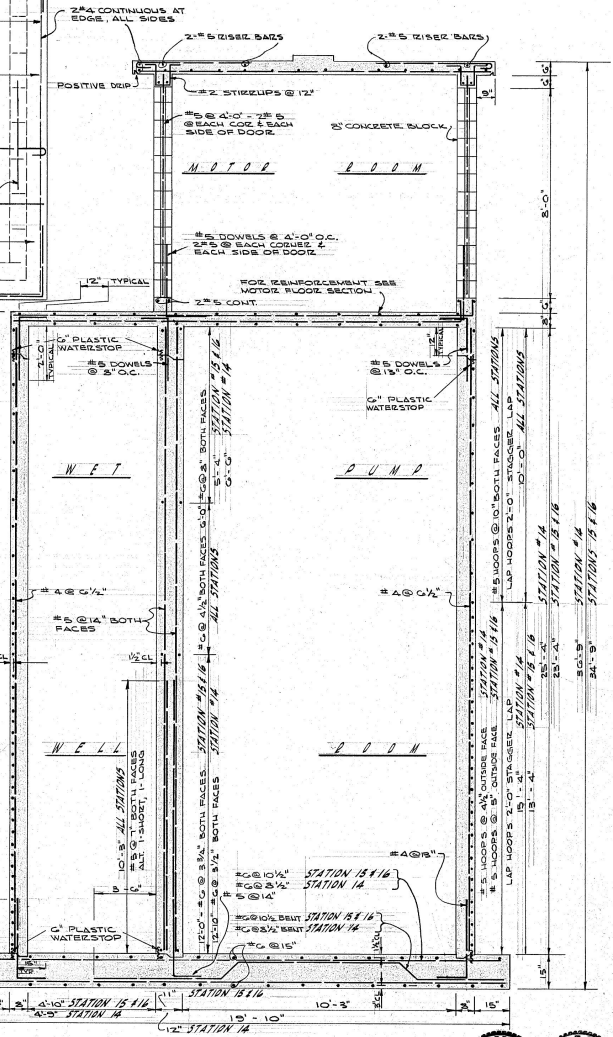
WALL CORNER DETAIL



OPENING DETAIL (TYPICAL)

LIFT STATION #16 EL 1175
LIFT STATION #15 EL 1100
LIFT STATION #14 EL 1100

LIFT STATION #16 EL -12.75
LIFT STATION #15 EL -13.00
LIFT STATION #14 EL -15.00



ELEVATION

LIFT STATIONS 14 15 16

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

SEE BENDING & DETAIL SHEETS PREPARED BY STEEL FABRICATOR



NO.	REVISION	BY	DATE	APPV	APPROVER
1	AS CONSTRUCTED	JK	2/24	RRC	CHECKED J.D.S.B.

CITY OF BREMERTON
KITAPAH COUNTY WASHINGTON
OSTRICH BAY SEWERAGE PROJECT
PUMP STATIONS NOS. 14, 15 & 16 - STRUCTURAL

Gray & Osborne
CONSULTING ENGINEERS
SEATTLE & VANUVA WASHINGTON

DATE: 2/24/05
DRAWN: J.G.M.
SCALE: NOTED
SHEET 23 OF 30



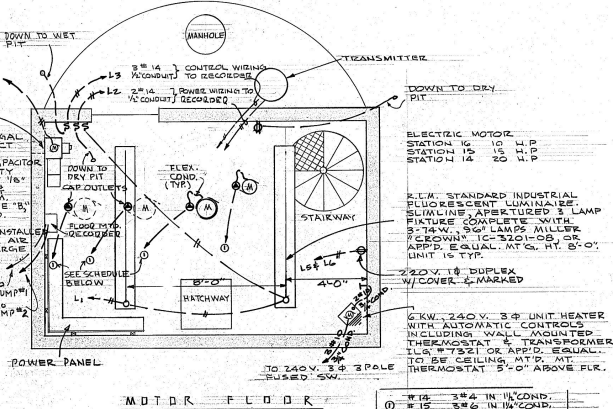
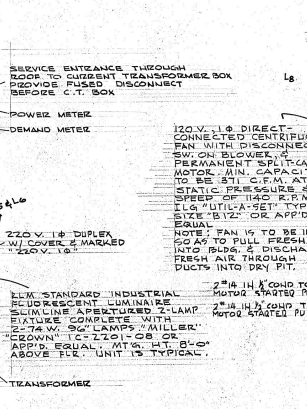
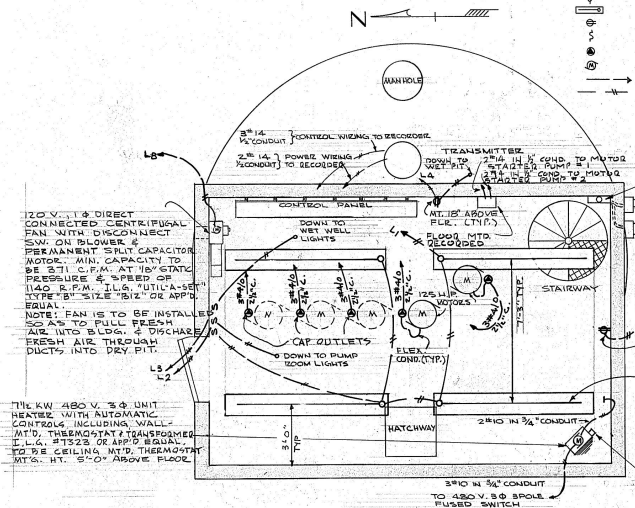
LEGEND

- WALL-MOUNTED, LIGHT FIXTURE
- WALL-MOUNTED, LIGHT FIXTURE (VAPOR PROOF)
- FLOOR'S CENT. LIGHTING FIXTURE
- WATERPOOF CONVENIENCE OUTLET, GROUNDING TYPE
- SINGLE POLE SW.
- SPECIAL PURPOSE OUTLET
- MOTOR
- CONDUIT RUN TO PANEL
- INDICATES 2" IN 3/4" CONDUIT

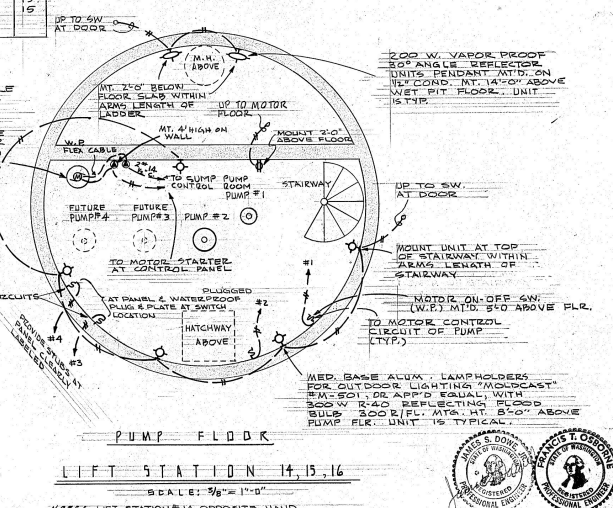
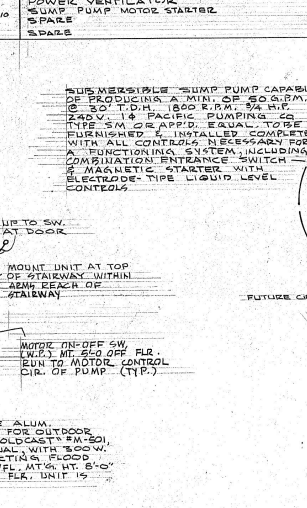
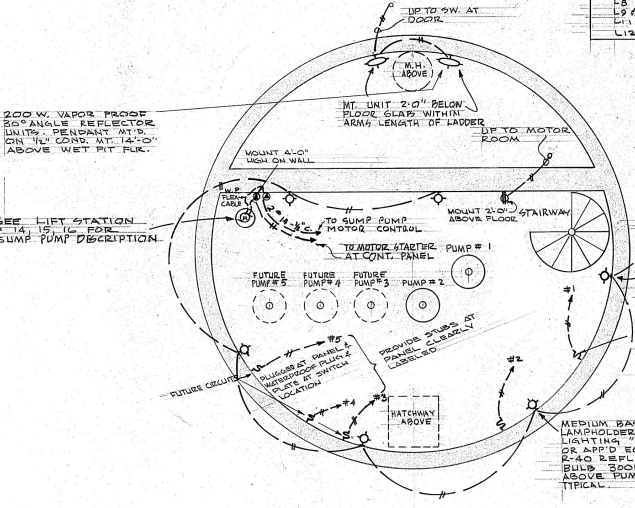
NOTES: FEATURES TO BE FURNISHED COMPLETE WITH BULBS & TUBES & ALL OUTLETS & SWITCHES & JUNCTION BOXES ARE TO BE FLUSH MOUNTED. ALL CONDUIT IS TO BE CONCEALED & ALL UNITS IN THE WET PIT SHALL BE VAPOR PROOF.

CONTRACTOR SHALL PROVIDE 3 (THREE) EXTRA FUSES FOR EA. FUSED CONNECTION

ALL WIRING SHALL BE THERMOPLASTIC TYPE THW



CIRCUIT NO.	DESCRIPTION	AMPS
L1	MAIN BREAKER	70
L2	CONTROL ROOM LIGHTS	15
L3	DRY PIT LIGHTS	15
L4	WET PIT LIGHTS	15
L5 & L6	CONVENIENCE OUTLETS 120V	15
L7	CONVENIENCE OUTLET 240V	15
L8	CONTROL CIRCUIT	15
L9 & L10	POWER VENTILATOR	15
L11	"SUMP PUMP MOTOR STARTER	15
L12	SPARE	15



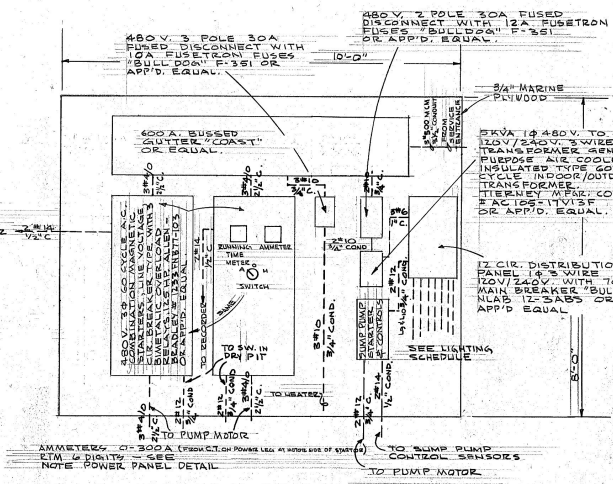
CITY OF BREMERTON
KITSAP COUNTY
OSTRICH BAY SEWERAGE PROJECT
PUMP STATIONS ELECTRICAL

DATE: APRIL, 1988
DRAWN: E.C.
CHECKED: J.S.P.
APPROVED: F.T.O.

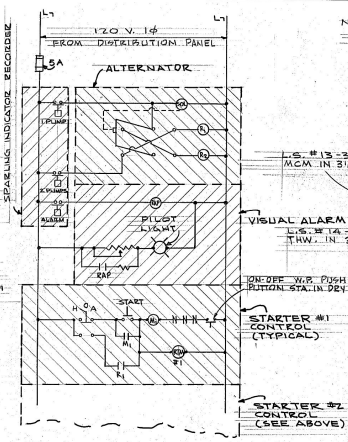
Gay & Osborne
CONSULTING ENGINEERS
SEATTLE & WASHING.
WASHINGTON

DATE NOTED: 24
OR 30

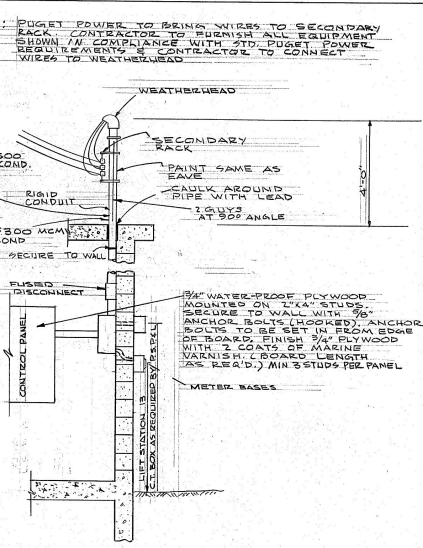




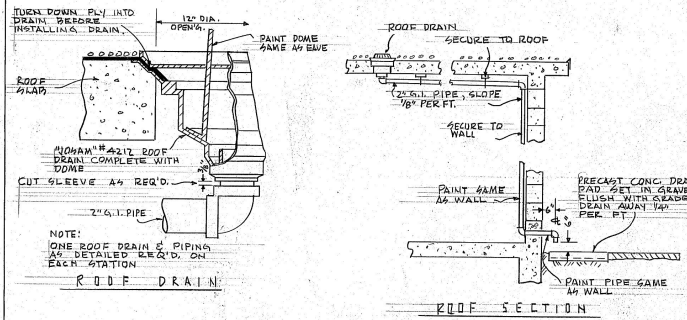
POWER PANEL
LIFT STATION 13
SCALE: 3/4" = 1'-0"



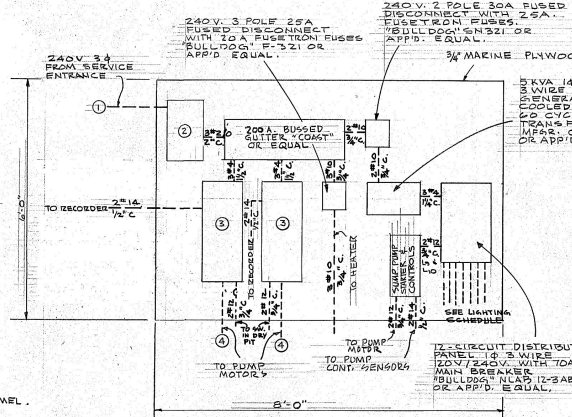
CONTROL CIRCUIT
ALL LIFT STATIONS
SCALE: NO SCALE



ENTRANCE AND METER BASE DETAILS
LIFT STATION 13
SCALE: NO SCALE



DRAIN DETAILS
SCALE: NO SCALE



ENTRANCE & METER BASE DETAILS
LIFT STATION 14 & 15 & 16
SCALE: NO SCALE

- EXTERIOR**
- BLK. WALLS, BOND BEAM & CURBS
 - RAMUC. 100VY # 310 MARINE PAINT
 - M.H. LIDS & VENTS ON CONC. SLAB, RAMUC. ORANGE (ORGANIC TYPE) #324 GUEB
 - ALL CONC. BELOW GRADE, INTERLOK #7 COAL TAR (BLACK)
 - EAVE, UNDER EAVE, GRANUL STOPS DOOR INSIDE & OUTSIDE EQUIPMENT ON ROOF, RAMUC. DARK BROWN # 310 PUT DTL. ENAMEL
 - ALL HAND HOLE COVERS
- CONTROL ROOM**
- RAMUC. TAN #380 GLOSS UTIL. ENAMEL
 - RAMUC. 100VY # 310 MARINE PAINT
 - RAMUC. DARK BROWN # 310 GLOSS DTL. ENL.
 - RAMUC. LIGHT GREY # 306-9055 UTIL. ENL.
 - FOOTING, BLACK EPOXY
 - STD. THICK BLACK COAL TAR PITCH. TRADE NAME, COLOR & NO.
 - WALLS, DUCTS & VENTS
 - CEILING
 - SPIRAL STAIRS (ALL OF IT) M.H. COVER
 - ALL ELECT. EQUIP. NOT PAINTED
 - ALL HAND HOLE COVERS

- WET PIT**
- WALLS & DUCTS, PIPING ON WALLS
 - CEILING
 - ALL ELECT. EQUIP. NOT PAINTED
 - ALL PIPING & FITTINGS NOT ON WALLS
 - ALL INTERIOR SURFACES OF WET WELL
 - ALL PIPING, FITTINGS & DUCTS
- DRY PIT**
- DO NOT PAINT ANY CONC. FLOORS
 - ALL PAINTS ARE TO BE INTERLOK 60 INC.
 - USE CORRECT PRIMERS, UNDERCOATS & THINNERS AS DIRECTED BY MFG.
 - ALL PAINTING IS TO BE DONE WITH A MIN. OF 2 (TWO) COATS, WELL DRIED IN BETWEEN COATS.
 - ALL SURFACES NOT ALREADY INDICATED THAT HAVE NOT BEEN PAINTED OR THAT HAVE BEEN NICKED, SCRATCHED, SHIN, BE PAINTED OR REPAINTED (EQUIPMENT IS NOT TO BE SPOT PAINTED) IF IN THE OPINION OF THE ENGR. SUCH PAINTING IS NECESSARY. NO ADDITIONAL PAYMENT WILL BE GRANTED FOR THIS PAINTING.

PAINTING SCHEDULE

DESCRIPTION	L.S.#14	L.S.#15	L.S.#16
1 FROM SERVICE ENTRANCE	3-2 1/2" IN 2" COND.	3-1/2" IN 2" COND.	3-1/2" IN 1/2" COND.
2 240V 3 POLE 25A FUSED DISCONNECT WITH FUSEBULB FUSES BU 12000	200A W/15A FUSETRONS	200A W/15A FUSETRONS	200A W/15A FUSETRONS
3 240V 3Ø 60CYCLE A.C. COMBINATION MAGNETIC STARTERS LINE VOLTAGE CIR. BREAKER TYPE WITH 10% BI-METALLIC OVERLOAD RELAYS	10H.P. ALLEN-BRADLEY #1233NA9-103 OR APPD. EQUAL	15 H.P. ALLEN-BRADLEY #1033NA9-68-103 OR APPD. EQUAL	10H.P. ALLEN-BRADLEY #1033NA9-68-103 OR APPD. EQUAL
4 FROM STARTERS TO MOTORS	3-1/2" IN 2" COND.	3-1/2" IN 1/2" COND.	3-1/2" IN 1/2" COND.

NOTE: EACH COMBINATION STARTER TO HAVE INSTALLED IN COVER. ONE AMMETER 0 TO 100 AMP. W/C.T. IF REQ'D. S.E. 3 1/2" BIG LOOK OR APPD. EQUAL. ONE RUNNING TO THE METER. READING IN HRS. TO 6 DIGITS, 0-1. 3 1/2" BIG LOOK OR EQUAL.

POWER PANEL
LIFT STATION 14 15 16
SCALE: 3/4" = 1'-0"

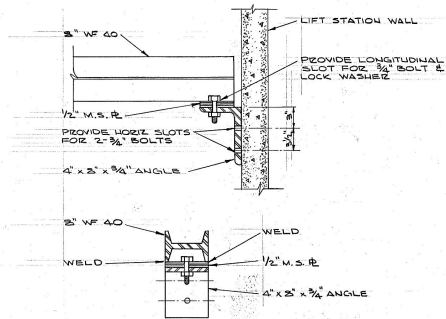


CITY OF BREMERTON
KITAP COUNTY WASHINGTON
OSTRICH BAY SEWERAGE PROJECT
PUMP STATIONS - ELECTRICAL

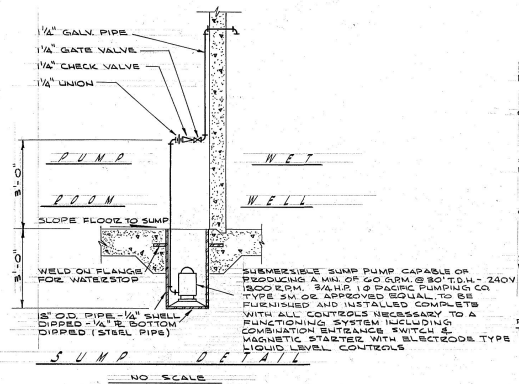
DATE: APRIL, 1985
DRAWN: EAC
CHECKED: USD
APPROVED: FR

Gray & Osborne
CONSULTING ENGINEERS
SEATTLE & VANICUM WASHINGTON

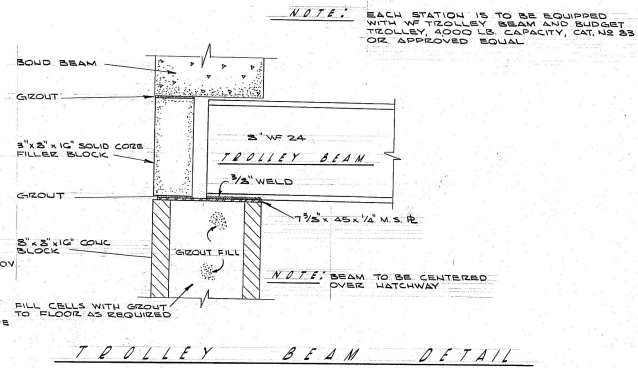
SCALE: NOTED
SHEET 25 OF 30



DRIVE SHAFT BEARING BEAM SUPPORT
NO SCALE



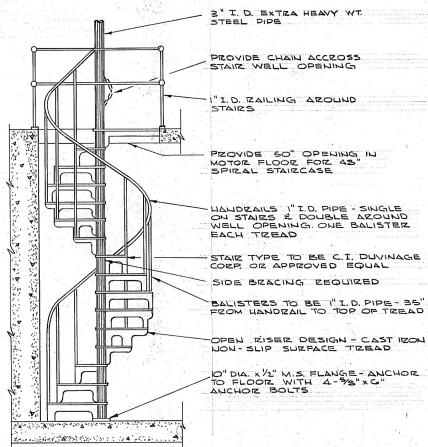
SUMP DETAIL
NO SCALE



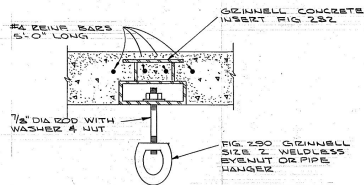
TROLLEY BEAM DETAIL
NO SCALE

STAIR SCHEDULE

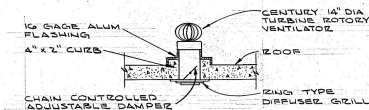
15 #16	3\"/>
14	3\"/>
13	3\"/>



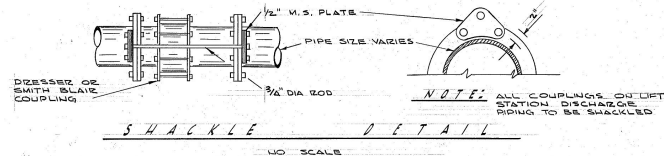
TYPICAL SPIDAL STAIRCASE
NO SCALE



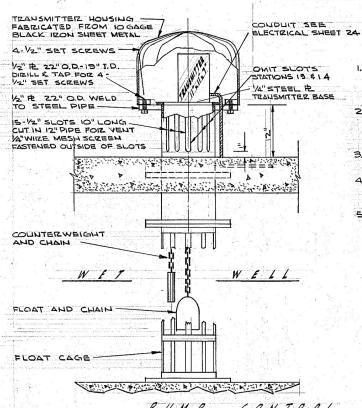
PIPE HANGAR DETAIL
NO SCALE



ROOF VENT
NO SCALE



SHACKLE DETAIL
NO SCALE



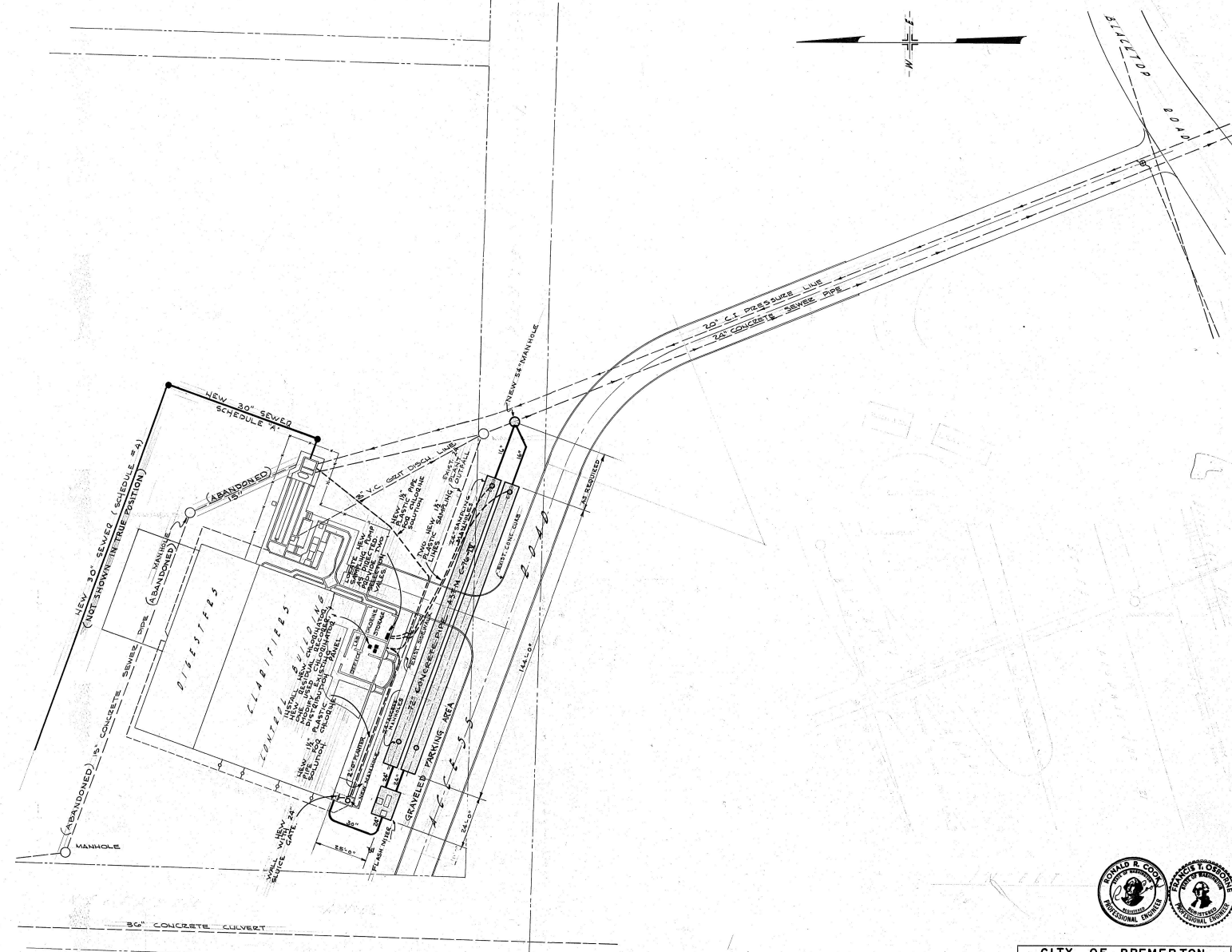
PUMP CONTROL
NO SCALE

- DOOR SCHEDULE**
1. PROVIDE ONE DOOR FOR EACH LIFT STATION. DOORS TO BE "REHEATED" 3'-0" X 7'-0" US 3010-L METAL DOOR & FRAME. LOWER OPENING IN LOWER SECTION OF DOOR.
 2. PROVIDE ONE LOCK & HANDLE SET FOR EACH DOOR. "REHEATED" NO. 1915. ALL LOCK KEYS ALIKE. 10 KEYS EACH DOOR. ALL KNOBS & ESCUTCHEONS TO BE BRASS. HINGES TO BE STEEL.
 3. ALL DOORS ARE TO OPEN OUT WITH THE KNOB & LOCK ON THE LEFT SIDE OF THE DOOR GOING INTO STATION.
 4. PROVIDE ONE THRESHOLD FOR EACH DOOR "REHEATED" # 2226 ALUMINUM WITH WEATHER SEAL "CHAMBERLAIN" # 153. BRONZE, EQUIP. # 10.
 5. PROVIDE 1/2" X 1/4" "LIZETHANE" WEATHER SEAL CONTINUOUS AROUND DOOR HEAD & JAMB "CHAMBERLAIN" # 800 INSTALLED AS RECOMMENDED BY MANUFACTURER.
- ROOF DRAINS & PAINT SCHEDULE**
- NOTE: SEE SHEET 25 OF 30 FOR DETAILS ON ROOF DRAINS & PAINTING SCHEDULE



CITY OF BREMERTON	
KITAP COUNTY	WASHINGTON
OSTRICH BAY SEWERAGE PROJECT	
PUMP STATIONS-DETAILS	
DATE: APRIL, 1953	SCALE: NOTED
DRAWN: J. G. M.	DATE: 26
CHECKED: J. D. S.	DATE: 30
APPROVED: J. F. G.	CONSULTING ENGINEERS
	SHIPLEY & PARKER
	WASHINGTON

NO.	REVISION	BY	DATE	APPROVED
1	AS CONSTRUCTED	R.K.	11/24/53	J.D.S.



**SEWAGE TREATMENT PLANT
SITE PLAN**

SCALE 1"=20'



CITY OF BREMERTON
KITSAP COUNTY WASHINGTON

OSTRICH BAY SEWERAGE PROJECT
CHLORINE CONTACT CHAMBER - SITE PLAN

DATE: APRIL, 1983
SCALE: NOTED

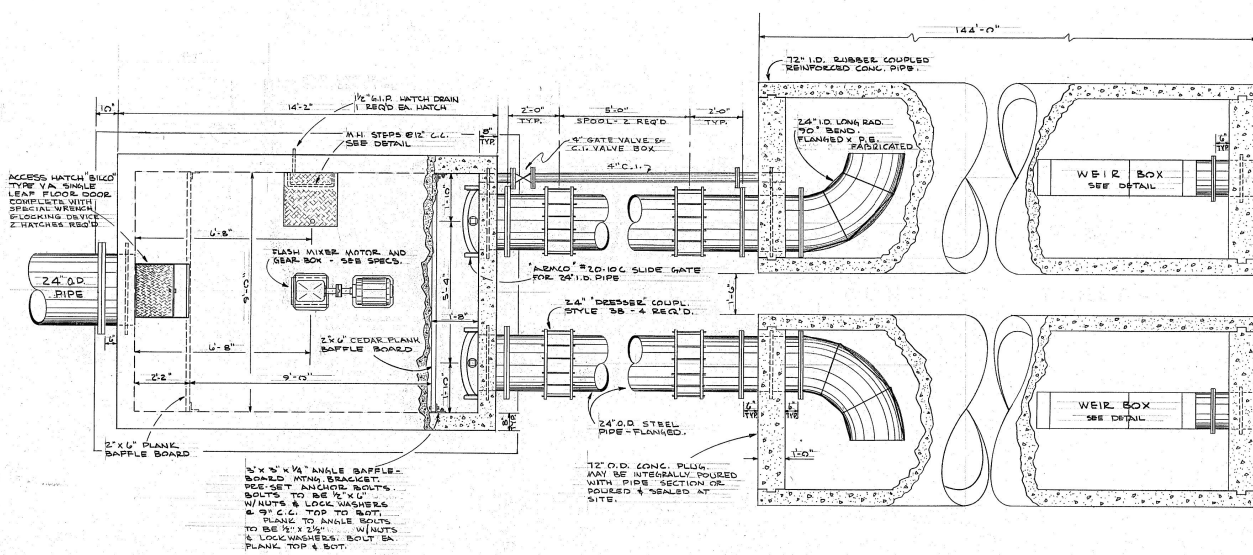
Gay & Osborne
CONSULTING ENGINEERS
SEATTLE & VANUVA
WASHINGTON

DATE: 27
OF: 30

NO.	REVISION	BY	DATE	APPROVED
1	AS CONSTRUCTED	RJK	1/16/83	REC
				DR: R. R. C.
				APPROVED: J. F. G.

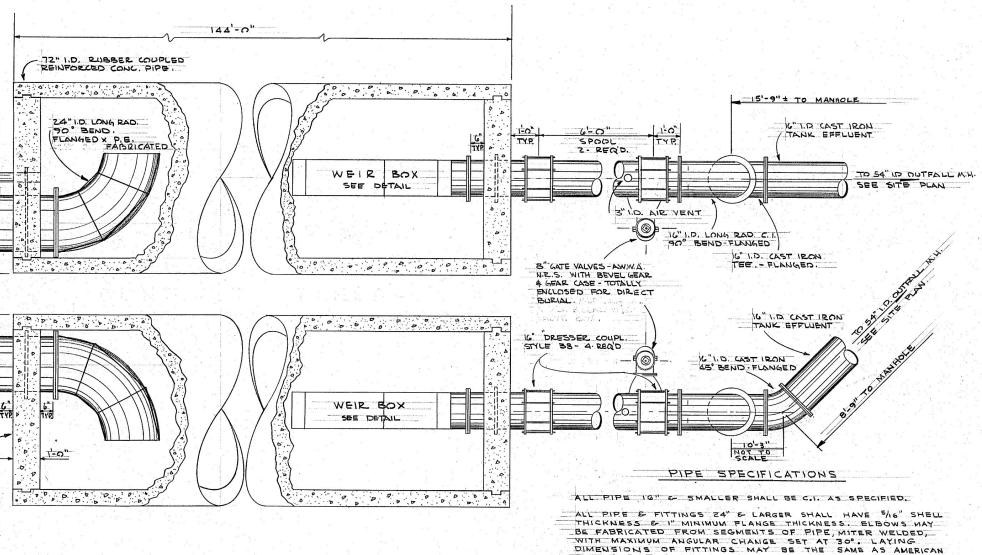
(see chlorination basin) chlorinators asphalt paving 10/1/83

Micro 1887-A
CHLORINE CONTACT CHAMBER - SITE PLAN 30
CL (ABBREVIATION IF NEEDED)



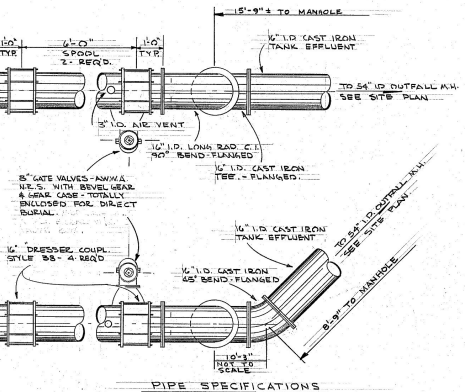
FLASH MIXER TANK - PLAN

SCALE: 1/4" = 1'-0"



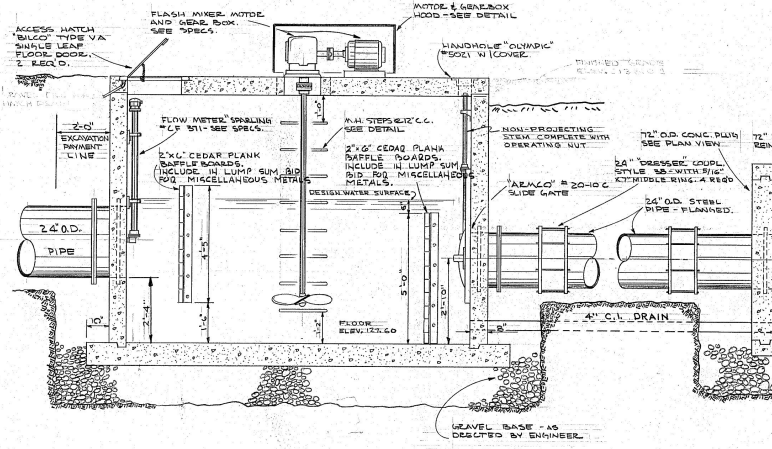
CHLORINE CONTACT TANK - PLAN

SCALE: 1/4" = 1'-0"



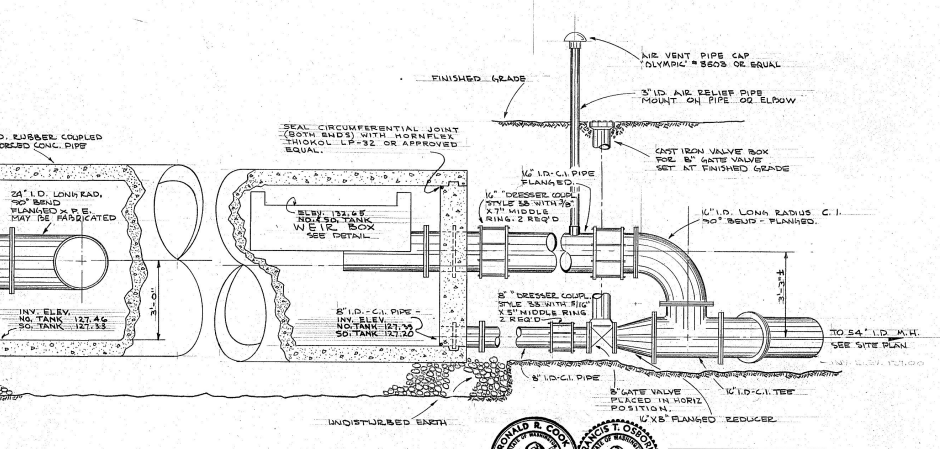
PIPE SPECIFICATIONS

ALL PIPE 1/2" & SMALLER SHALL BE C.I. AS SPECIFIED.
 ALL PIPE & FITTINGS 2" & LARGER SHALL HAVE 3/8" SHELL THICKNESS & 1" MINIMUM FLANGE THICKNESS. ELBOWS MAY BE FABRICATED FROM SEGMENTS OF PIPE, MITER WELDED, WITH MAXIMUM ANGULAR CHANGE SET AT 50°. LAYING DIMENSIONS OF FITTINGS MAY BE THE SAME AS AMERICAN STANDARD FOR FLANGED CAST IRON FITTINGS, STEEL PIPE & FITTINGS SHALL BE LINED & COATED WITH HOT-APPLIED COAL TAR ENAMEL IN ACCORDANCE WITH ANSWA. STANDARD SPECIFICATIONS FOR CAST IRON. PRIMER SHALL BE JUST SET AS MANUFACTURED BY KOPPEL'S CO. COAL TAR ENAMEL SHALL BE 3/16" THICK & THE EXTERIOR SHALL BE WRAPPED WITH 15# BONDED ASBESTOS FELT.



FLASH MIXER TANK - ELEV.

SCALE: 1/4" = 1'-0"



CHLORINE CONTACT TANK - ELEV.

SCALE: 1/4" = 1'-0"



CITY OF BREMERTON KITSAP COUNTY WASHINGTON	
OSTRICH BAY SEWERAGE PROJECT CHLORINE CONTACT CHAMBER-PIPING	
DATE: APRIL 1963	SCALE: NOTED
DRAWN: K.J.O.	PROJECT: 28
ENGINEER: R.E.C.	SHEET: 30
CONSULTING ENGINEERS Gray & Osborne SEATTLE & ANACAPIS WASHINGTON	

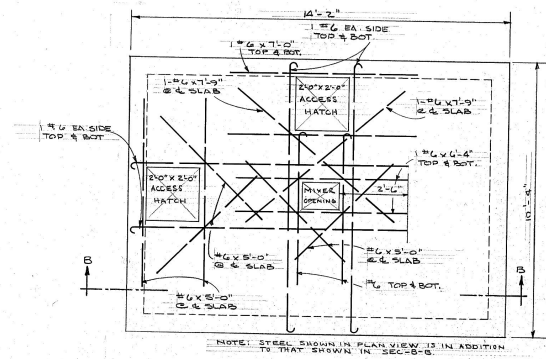
ELEVATIONS ARE CITY OF BREMERTON DATUM
 SUBTRACT 115.23 FOR U.S.C.F.S. DATUM

excavation for pump line

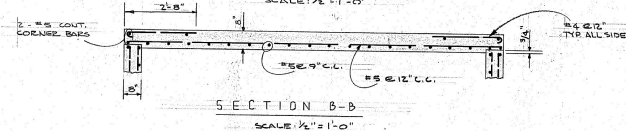
(Sampling point)

Release air vent line

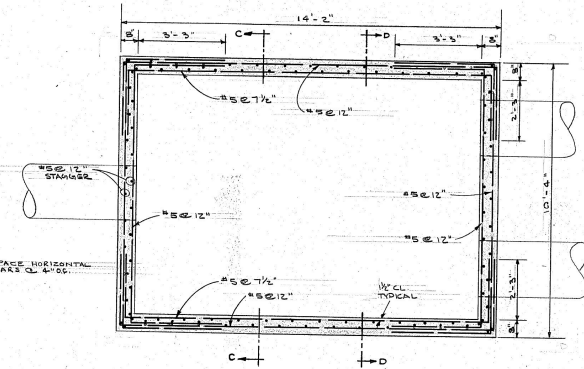
CHLORINE CONTACT CHAMBER-PIPING MICRO 1987-AH



MIXER TANK TOP SLAB
SCALE: 1/2" = 1'-0"

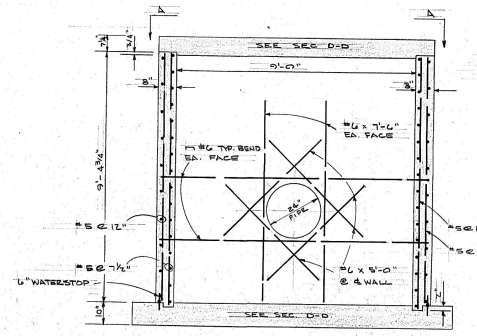


SECTION B-B
SCALE: 1/2" = 1'-0"

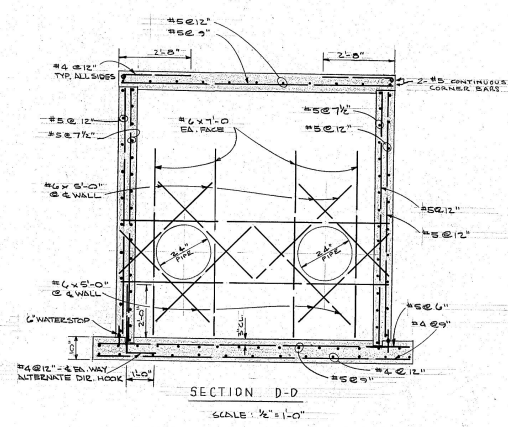


SECTION A-A
SCALE: 1/2" = 1'-0"

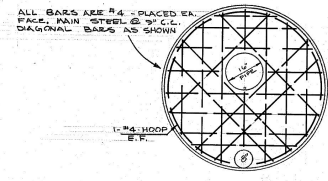
FLASH MIXER TANK REINFORCING



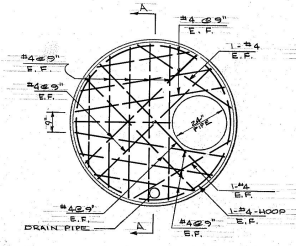
SECTION C-C
SCALE: 1/2" = 1'-0"



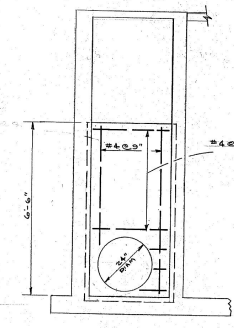
SECTION D-D
SCALE: 1/2" = 1'-0"



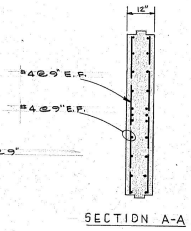
ELEVATION
TANK EFFLUENT WALL
SCALE: 1/2" = 1'-0"



ELEVATION
TANK INFLUENT WALL
SCALE: 1/2" = 1'-0"



ELEVATION
EXISTING EFFLUENT M.H.
SCALE: 1/2" = 1'-0"



SECTION A-A
TANK INFLUENT WALL
SCALE: 1/2" = 1'-0"

NOTE

ALL BARS TO HAVE
2" MIN. CLEARANCE FROM
EXPOSED SURFACE.
WATERSTOP DIAPHRAGMS
TO BE PLASTIC MULTISEAL
TYPE NO. 6 OR APPROVED
EQUAL.
COST OF PUSHING &
INSTALLING TO BE MERGED
IN UNIT PRICE PAID FOR
CONCRETE.



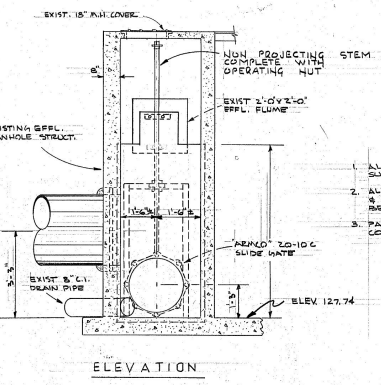
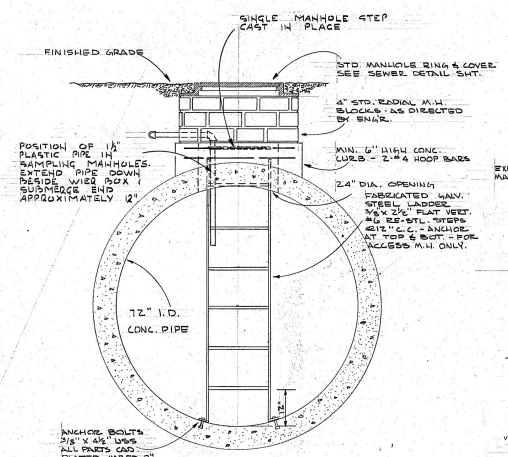
SEE BIDDING & DETAIL SHEETS
PREPARED BY STEEL FABRICATOR

CITY OF BREMERTON
KITAP COUNTY
SEASIDE
OSTRICH BAY SEWERAGE PROJECT
CHLORINE CONTACT CHAMBER - STRUCTURAL
DATE: APRIL, 1965
DRAWN: E.C.P.
CHECKED: R.S.C.
CONSULTING ENGINEERS
SEATTLE & YAKIMA
WASHINGTON

SCALE: NOTED
SHEET 29 OF 30

NO.	REVISION	BY	DATE	APPROVED
1	AS CONSTRUCTED	RJK	2-66	REC

Means cut of access in H
in units place but not in
for the same pipe.

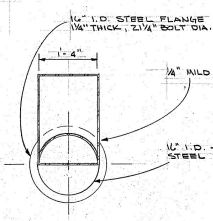
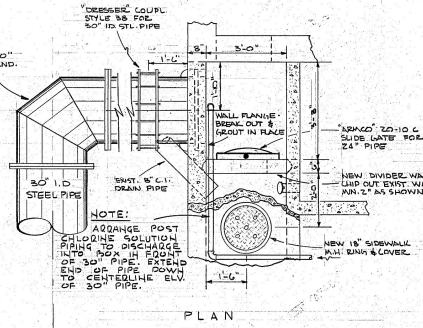


- NOTE**
1. ALL WELDS SHALL BE 1/4" FILLET - ALL SURFACES AROUND BEFORE WELDING.
 2. ALL SURFACES TO BE THOROUGHLY CLEAN & ALL WELDS TO BE CLEAR OF SLAG BEFORE PAINTING.
 3. PAINT TO BE 'INVERTOL' SEMI-GLASS TAR CHANNEL - MIN. 2 COATS.

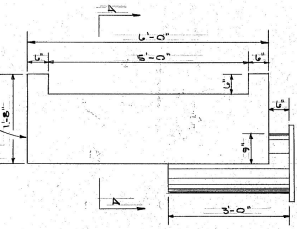


PLAN

ACCESS & SAMPLING MANHOLE - ELEV.
SCALE: 3/4" = 1'-0"

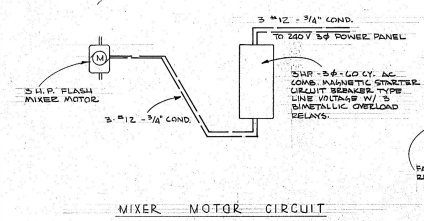


SECTION A-A

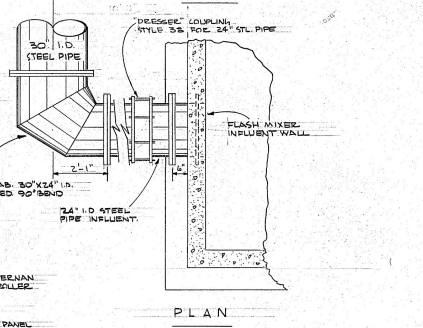


ELEVATION

WEIR BOX
SCALE: 3/4" = 1'-0"

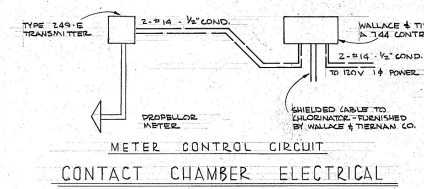


MIXER MOTOR CIRCUIT

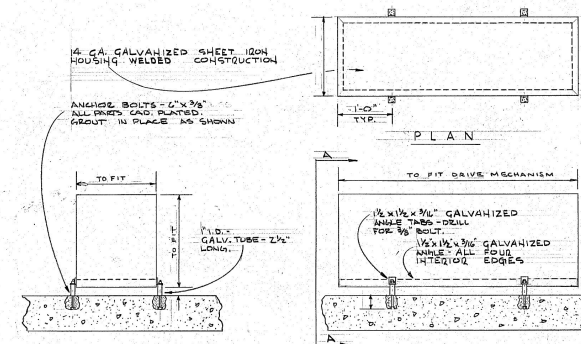


PLAN

CONNECTION TO EXISTING EFFLUENT
SCALE: 3/4" = 1'-0"



METER CONTROL CIRCUIT
CONTACT CHAMBER ELECTRICAL



SECTION A-A

ELEVATION

MOTOR & GEARBOX COVER
SCALE: 1" = 1'-0"



CITY OF BREMERTON
KITSAP COUNTY WASHINGTON
OSTRICH BAY SEWERAGE PROJECT
CHLORINE CONTACT CHAMBER-DETAILS

DATE: APRIL 1982
DRAWN: [Signature]
CHECKED: [Signature]
APPROVED: [Signature]

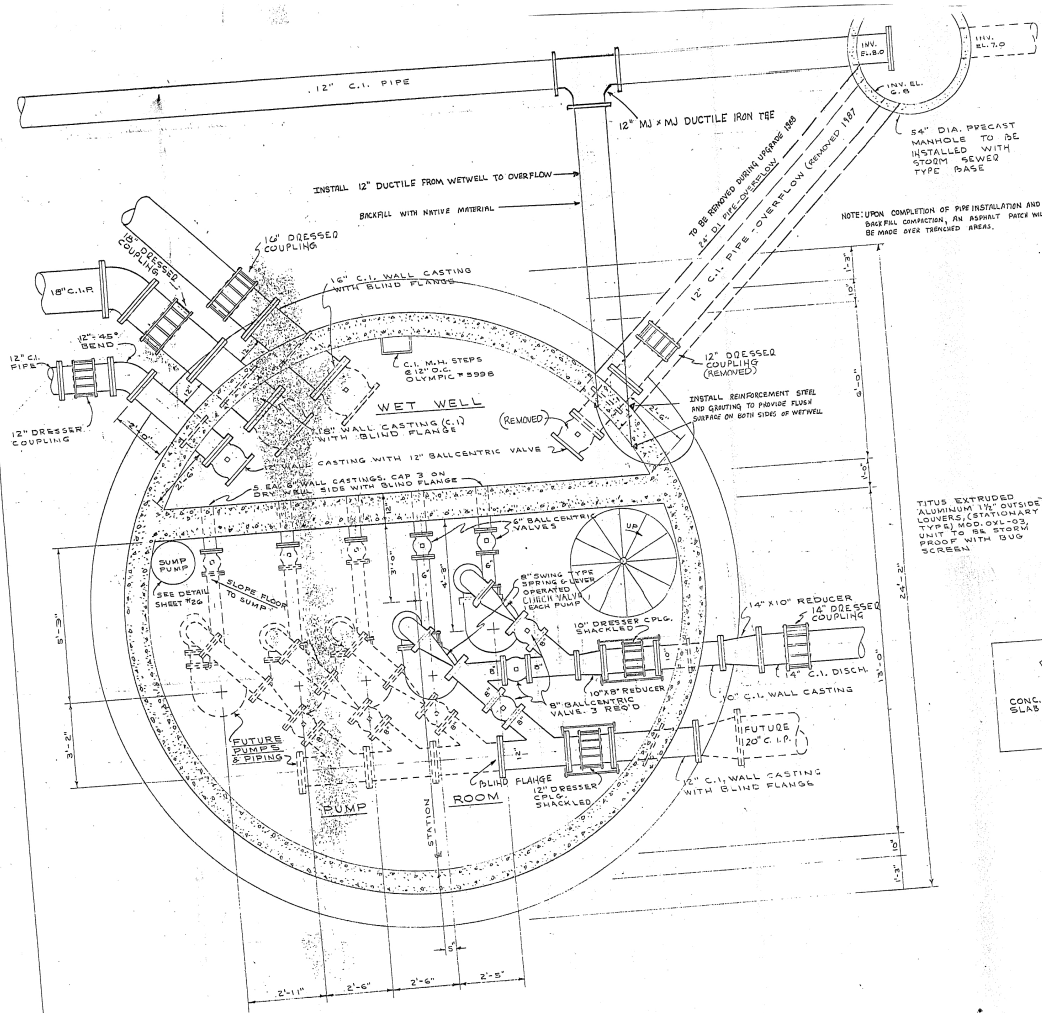
Gray & Osborne
CONSULTING ENGINEERS
SPRITZEL & VANDER WASHINGTON

SHEET 30 OF 30

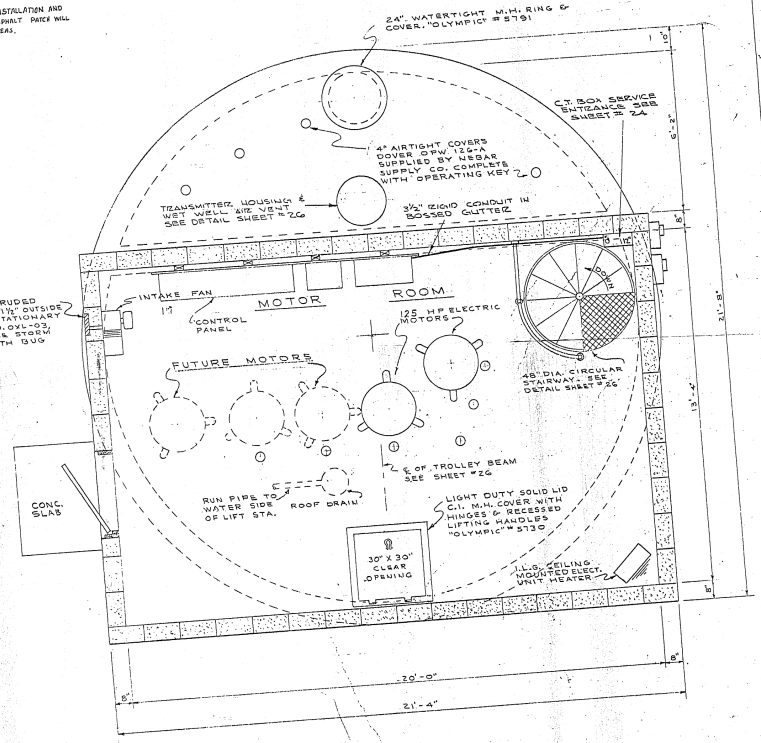
NO.	REVISION	BY	DATE	APP.
1	AS CONSTRUCTED	RJK	12-26	RRC

(STEEL CUTTING)

Micro 1087-Aj



PUMP FLOOR PLAN
SCALE: 1/2" = 1'-0"



MOTOR FLOOR PLAN
SCALE: 1/2" = 1'-0"

C8

CITY OF BREMERTON
KITAP COUNTY WASHINGTON
OSTRICH BAY SEWERAGE PROJECT
PUMP STATION NO. 13 - PIPING

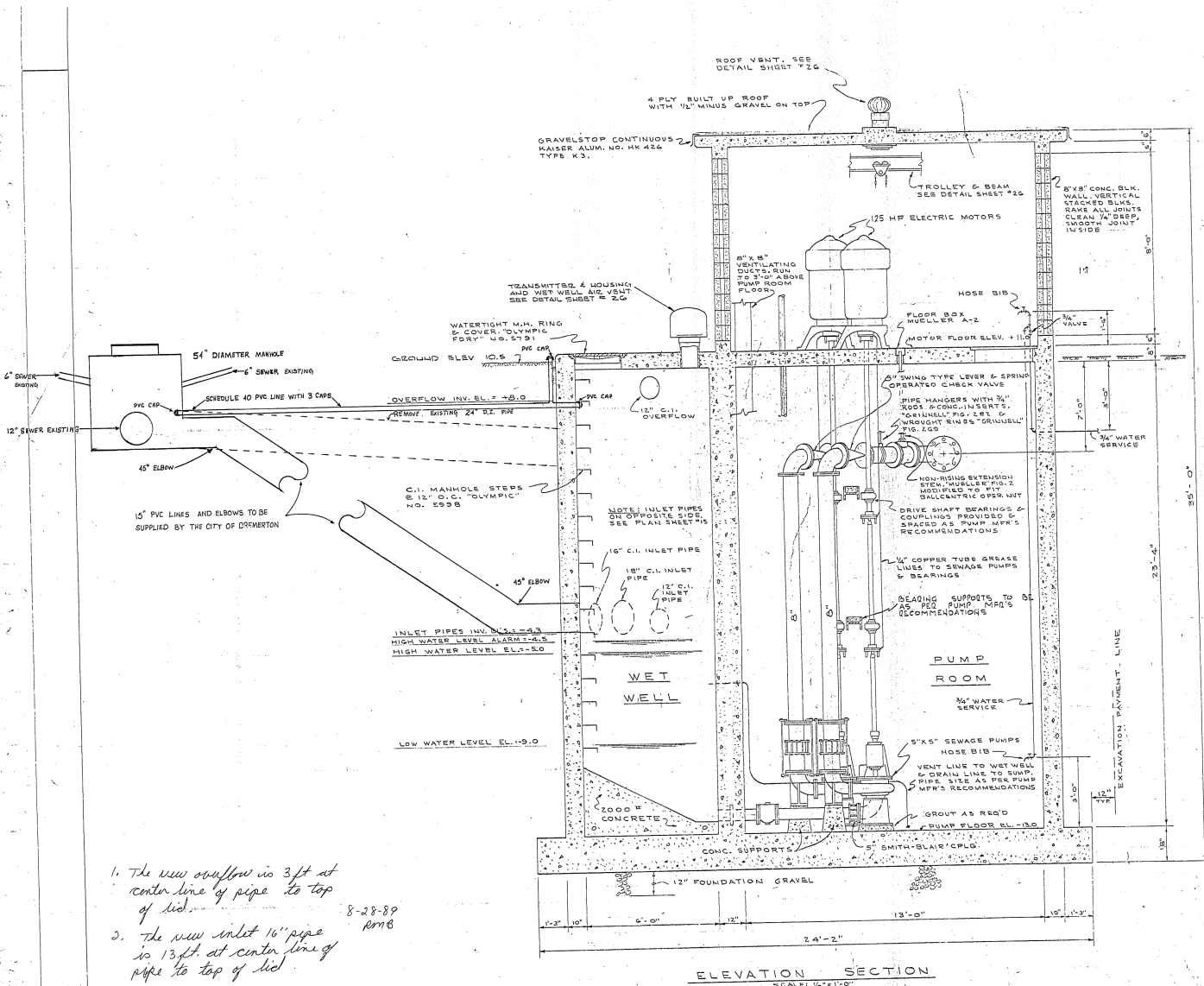
DATE: APRIL, 1983
DRAWN: J.D.S.
CHECKED: J.D.S.
APPROVED: P.P.G.

DATE: 15
SHEET: 30

Gray & Osborne
CONSULTING ENGINEERS
SEATTLE & VANCOUVER
WASHINGTON

DBA PIPING

2	MADE BY	DATE	BY	DATE	BY	DATE	BY
1	AS CONSTRUCTED						



1. The new overflow is 3 ft at center line of pipe to top of lid.
 2. The new inlet 16" pipe is 13 ft. at center line of pipe to top of lid.
- 8-28-89
pmB

ELEVATION SECTION
SCALE: 1/4" = 1'-0"



C8

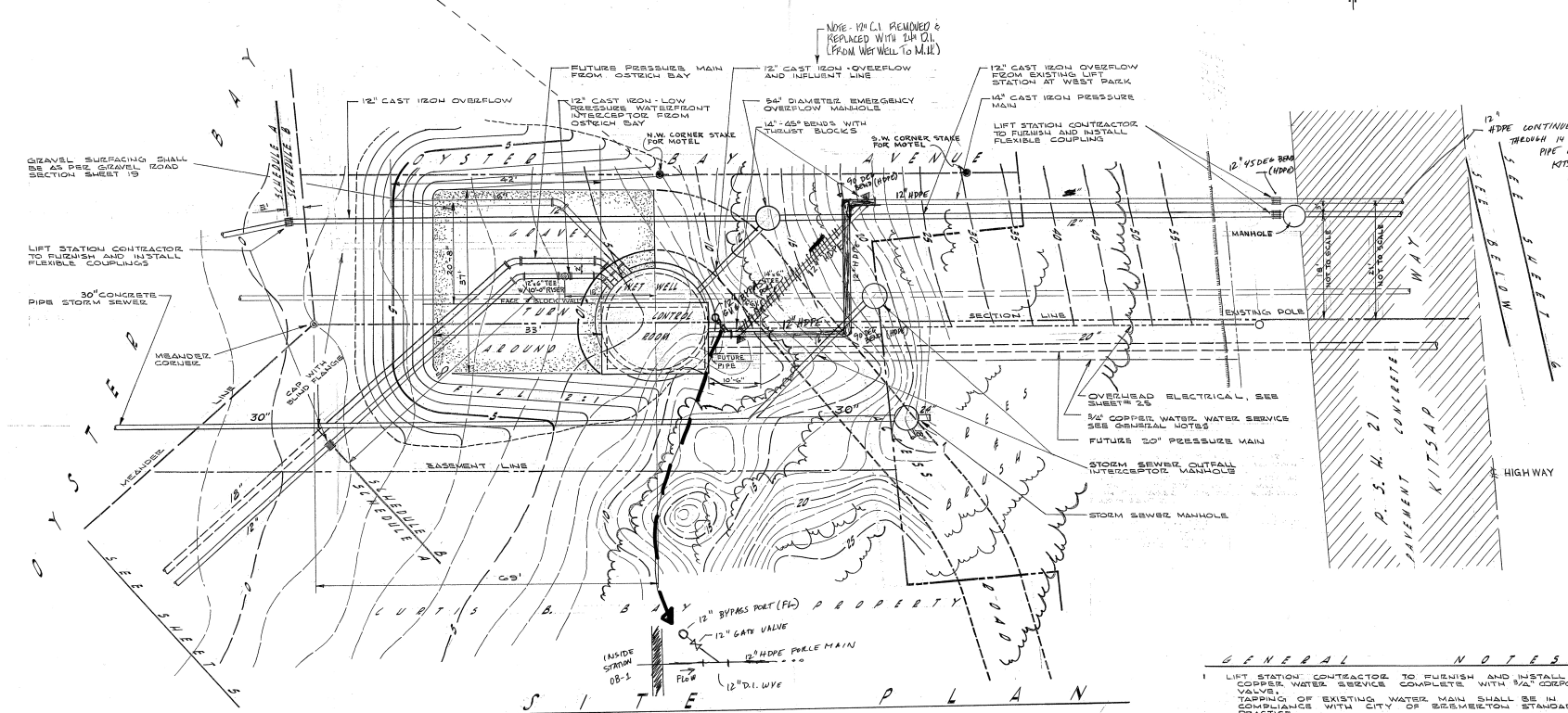
CITY OF BREMERTON		WASHINGTON
OSTRICH BAY SEWERAGE PROJECT		
PUMP STATION NO. 13 - PIPING		
DATE: APRIL 1988	DRAWN: P.M.B.	SCALE: NOTED
DESIGNED: J.D.S.B.	CONSULTING ENGINEERS	
APPROVED: P.M.B.	SEATTLE & VANICUM WASHINGTON	
SHEET 16		OF 30

OBI PIPING

1	AS CONSTRUCTED	N.A.	12/14/88	REC
2	REVISION	BY	DATE	APP



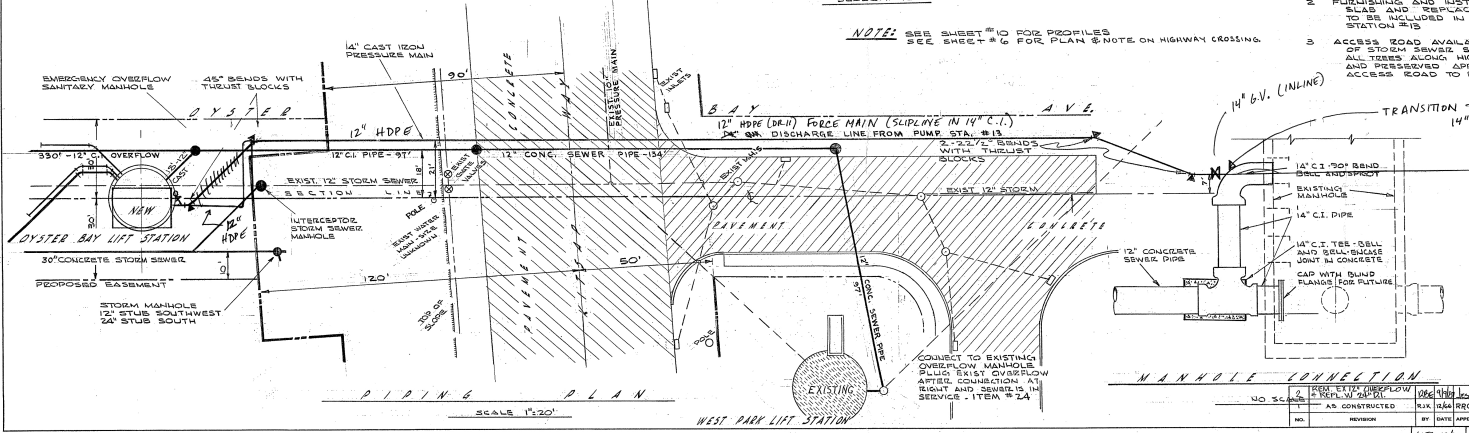
M.C. No. 187
5. #13
10/14/88



SCALE 1"=10'

NOTE: SEE SHEET #10 FOR PROFILES
SEE SHEET #11 FOR PLAN & NOTE ON HIGHWAY CROSSING.

- GENERAL NOTES**
- LIFT STATION CONTRACTOR TO FURNISH AND INSTALL 3/4" COPPER WATER SERVICE COMPLETE WITH 3/4" COPPER VALVE. TAPPING OF EXISTING WATER MAIN SHALL BE IN COMPLIANCE WITH CITY OF BIRMINGHAM STANDARD PRACTICE.
 - FURNISHING AND INSTALLING ALL MATERIAL, GRADING, ENTRANCE SLAB AND REPLACING EXISTING STORM SEWER OUTFALL TO BE INCLUDED IN THE ITEM GRAVEL SURFACING FOR STATION #15.
 - ACCESS ROAD AVAILABLE TO CONTRACTOR UPON INSTALLATION OF STORM SEWER SYSTEM AND FILLING OF EXISTING DRAINAGE. ALL TREES ALONG HIGHWAY RIGHT OF WAY ARE TO BE PROTECTED AND PRESERVED. APPROXIMATE LOCATION OF LOCATION OF ACCESS ROAD TO BE AS SHOWN.



SCALE 1"=20'

OB-1
CITY OF BREMONT
KITAP COUNTY WASHINGTON
OSTRICH BAY SEWERAGE PROJECT
PUMP STATION NO. 13 - SITE PLAN

DATE: APRIL 1982	DESIGNED BY: JGM	CHECKED BY: JDS	APPROVED BY: P.L.O.
NO. 5118	NO. 2270	DATE: APR 1982	DATE: APR 1982
AS CONSTRUCTED	BY: JGM	DATE: APR 1982	DATE: APR 1982

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SHEET 14 A
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