Apendix 3 Figure 2 Sunrise Raw and Water distribution.png

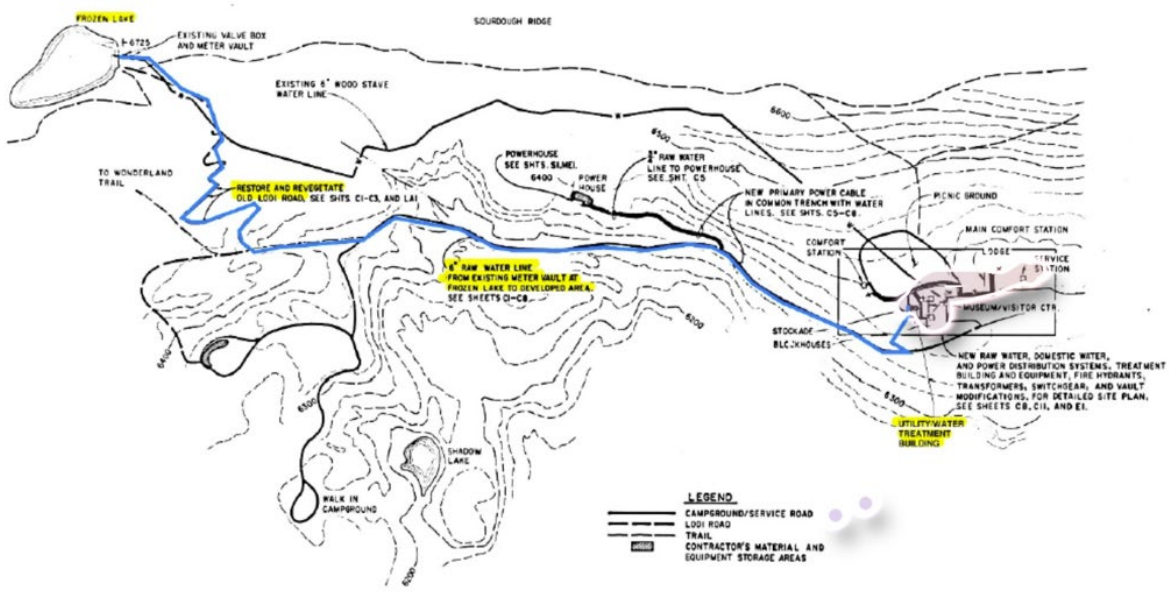


Figure 2. Site Plan, 1984

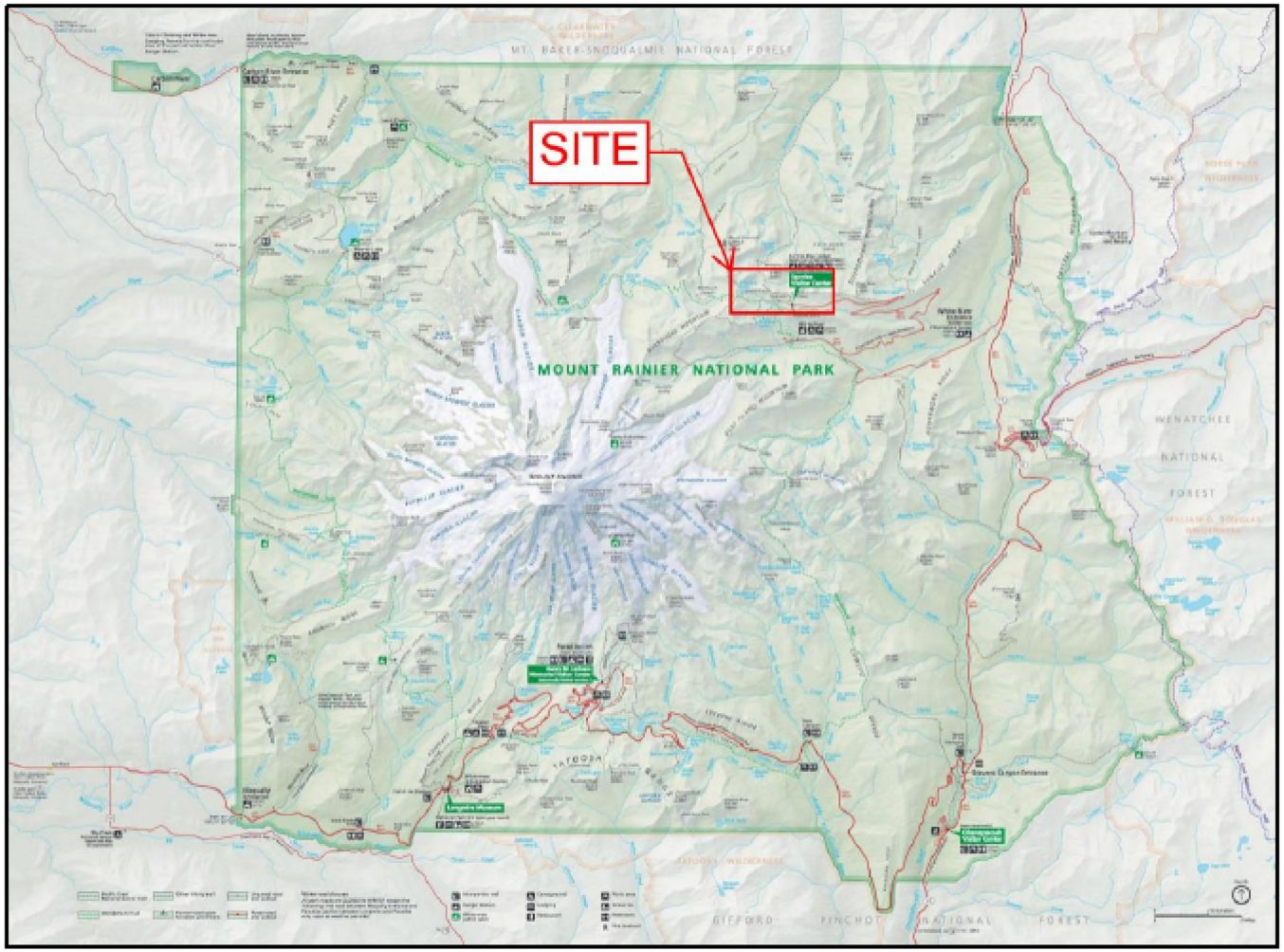
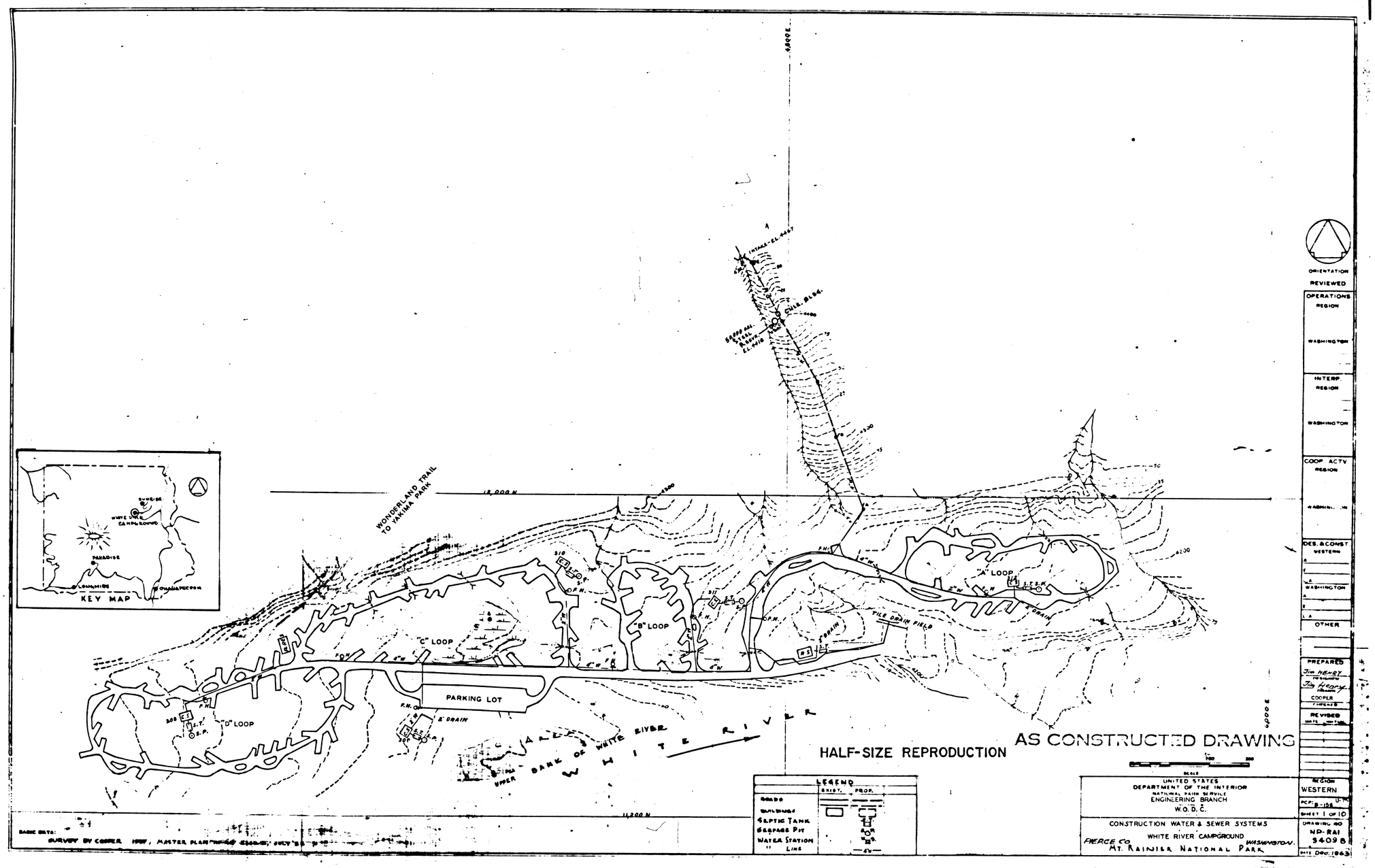
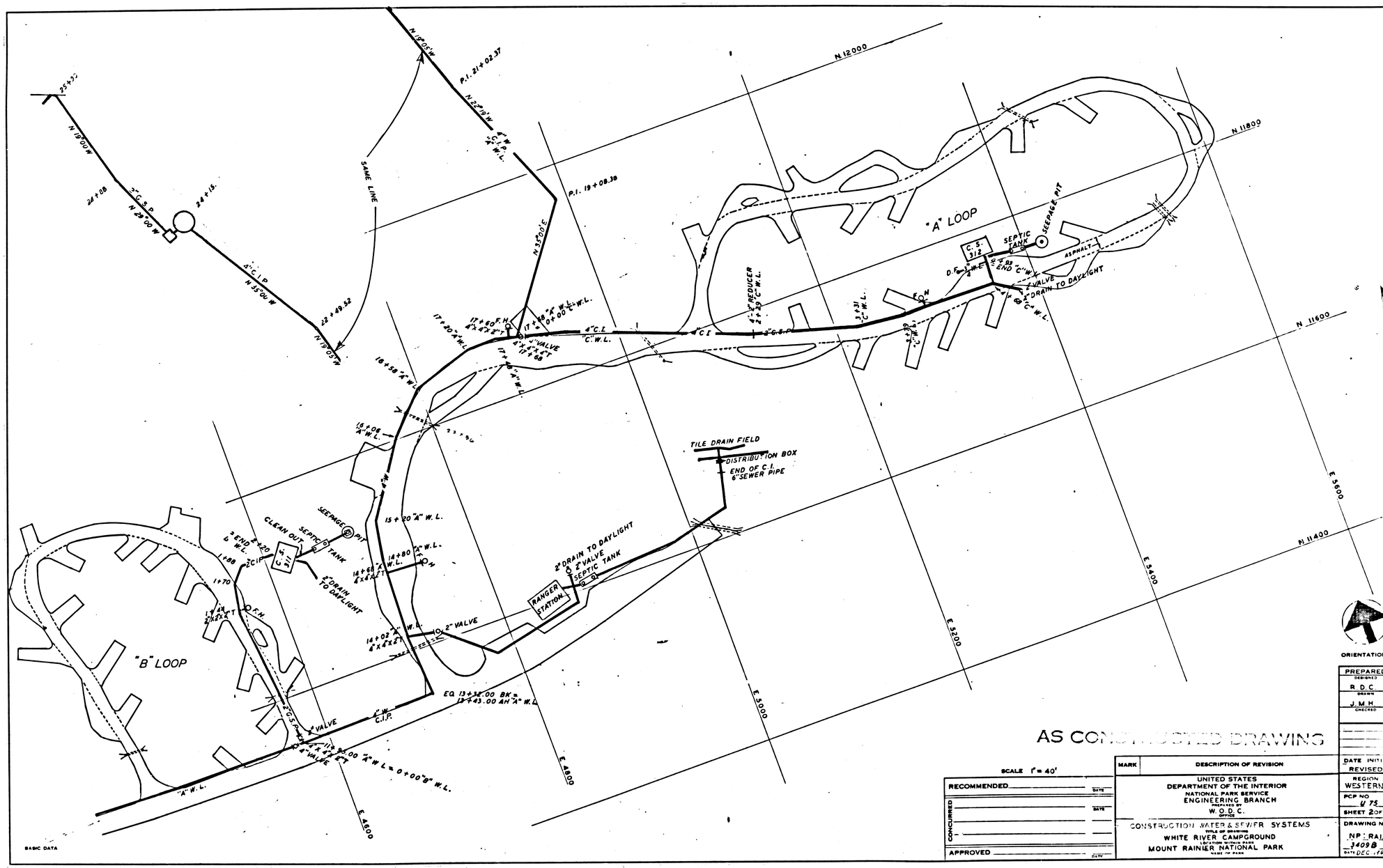


Figure 1. Vicinity Map


KEY MAP
SUNRISE
WHITE RIVER CAMPGROUND
PARADISE
LONGMIRE
OHANAPECOSH
WONDERLAND TRAIL TO YAKIMA PARK
12,000 N
11,200 N
"A" LOOP
"B" LOOP
"C" LOOP
"D" LOOP
PARKING LOT
TILE DRAIN FIELD
UPPER BANK OF WHITE RIVER
WHITE RIVER
HALF-SIZE REPRODUCTION
AS CONSTRUCTED DRAWING
LEGEND
EXIST.
PROP.
ROADS
BUILDINGS
SEPTIC TANK
SEEPAGE PIT
WATER STATION
LINE
ORIENTATION
REVIEWED
OPERATIONS REGION
WASHINGTON
INTERP. REGION
WASHINGTON
COOP ACTV REGION
DES. & CONST WESTERN
WASHINGTON
OTHER
PREPARED
Jim Henry
COOPER
REVISED
UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
ENGINEERING BRANCH
W.O.D.C.
CONSTRUCTION WATER & SEWER SYSTEMS
WHITE RIVER CAMPGROUND
PIERCE CO. WASHINGTON
MT. RAINIER NATIONAL PARK
REGION WESTERN
SHEET 1 OF 10
DRAWING NO NP-RAI 3409 B
DATE DEC. 1963



ORIENTATION

AS CONSTRUCTED DRAWING

SCALE 1" = 40'

RECOMMENDED _____ DATE

CONCURRED _____ DATE

_____

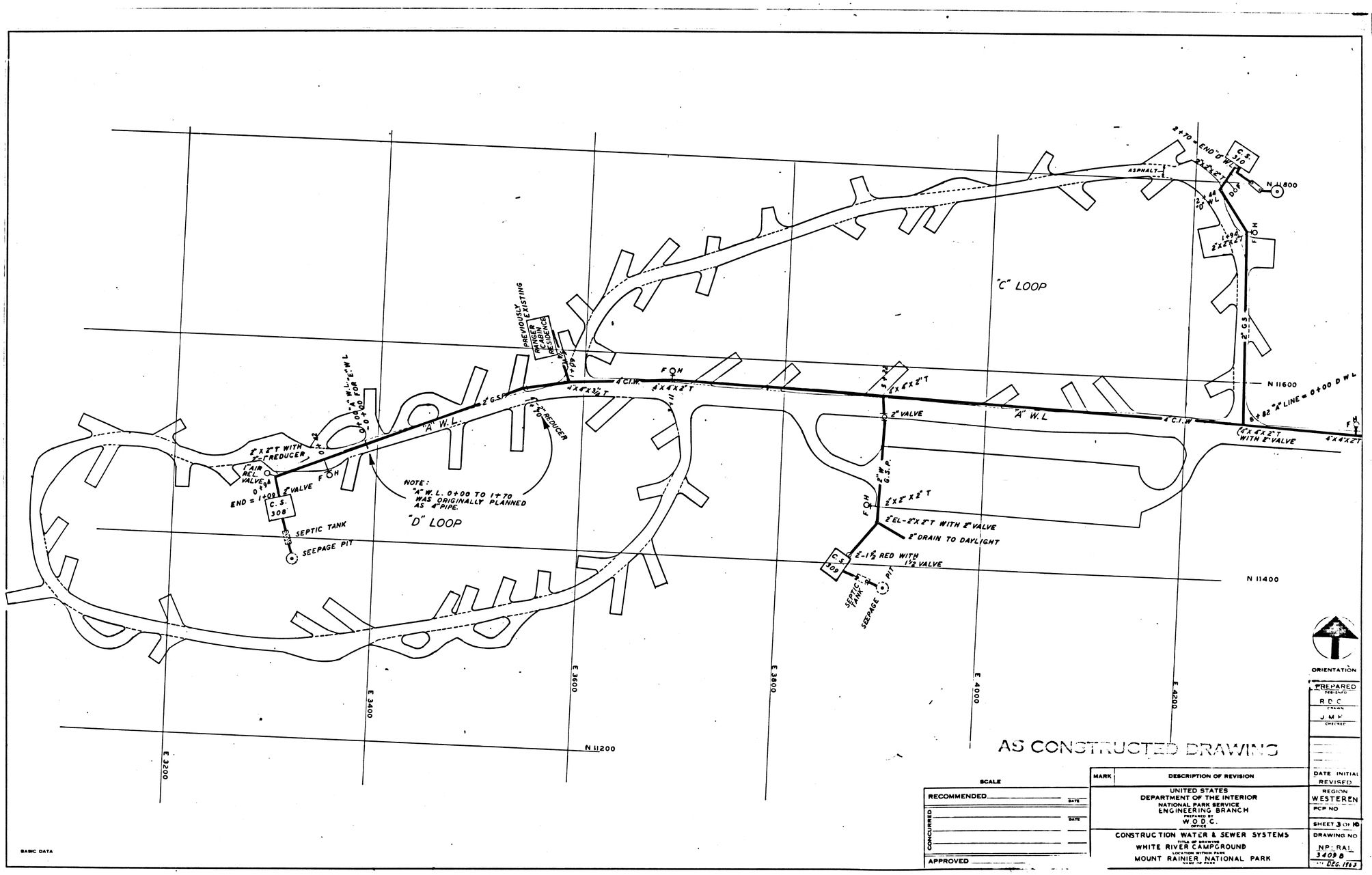
APPROVED _____ DATE

MARK	DESCRIPTION OF REVISION	DATE	INITIAL
		REVISED	

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
ENGINEERING BRANCH
PREPARED BY
W.O.D.C.
OFFICE

CONSTRUCTION WATER & SEWER SYSTEMS
TITLE OF DRAWING
WHITE RIVER CAMPGROUND
LOCATION WITHIN PARK
MOUNT RAINIER NATIONAL PARK
NAME OF PARK

PREPARED	
DESIGNED	R. D. C
DRAWN	J. M. H
CHECKED	
REGION	WESTERN
PCP NO	U 75
SHEET	2 OF 10
DRAWING NO	NP: RAI 3409B
DATE	DEC. 1963



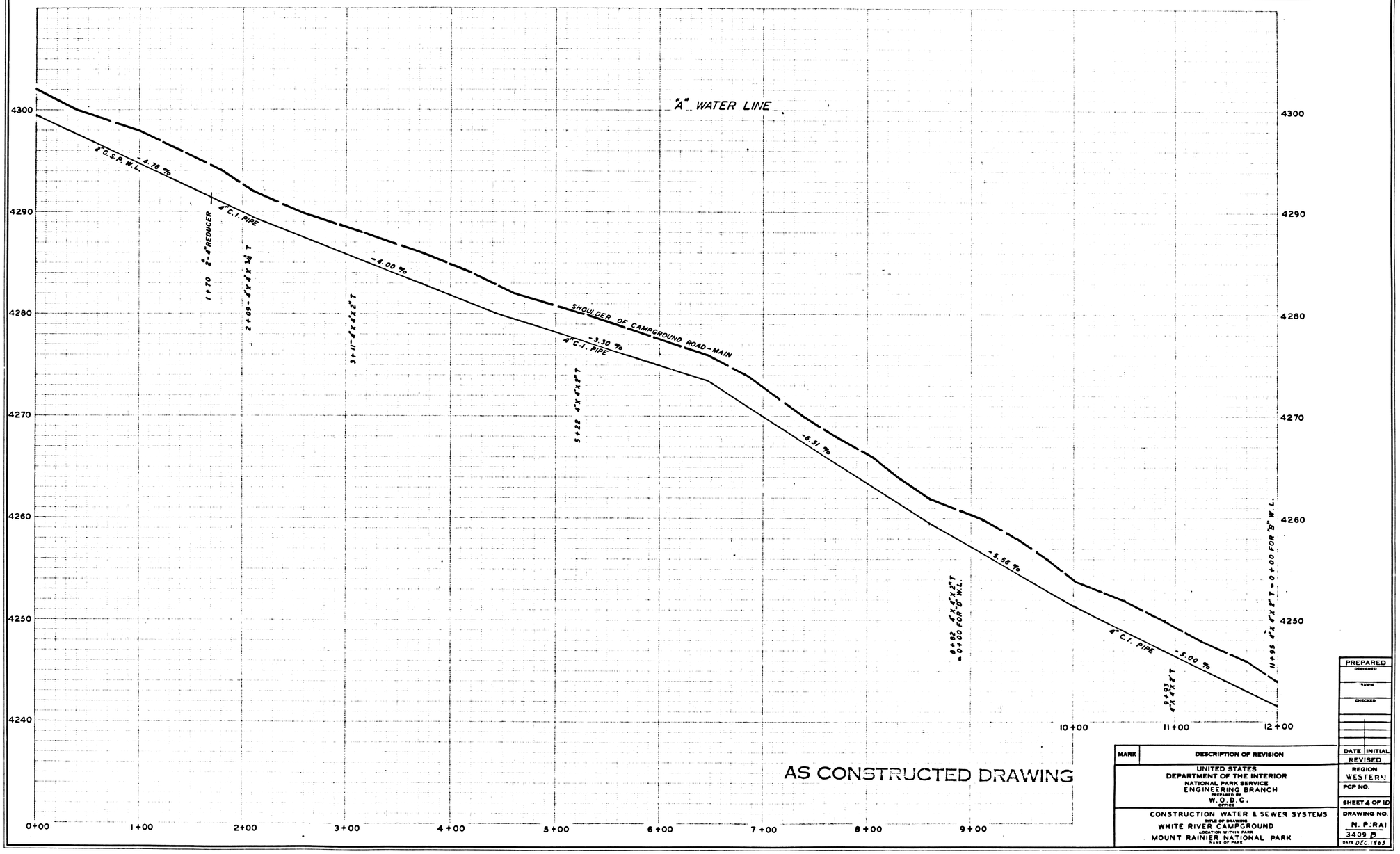
SCALE	MARK	DESCRIPTION OF REVISION	DATE	INITIAL	REVISED
RECOMMENDED _____ DATE					
CONCURRED _____ DATE					
APPROVED _____					

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
ENGINEERING BRANCH
PREPARED BY W O D C. OFFICE

TITLE OF DRAWING: CONSTRUCTION WATER & SEWER SYSTEMS
LOCATION WITHIN PARK: WHITE RIVER CAMPGROUND
NAME OF PARK: MOUNT RAINIER NATIONAL PARK

PREPARED DRAWN: R D C
CHECKED: J M F

REGION: WESTERN
PCP NO
SHEET 3 OF 10
DRAWING NO: NP: RAI 34098
DEC. 1963



MARK	DESCRIPTION OF REVISION	DATE	INITIAL

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DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
ENGINEERING BRANCH
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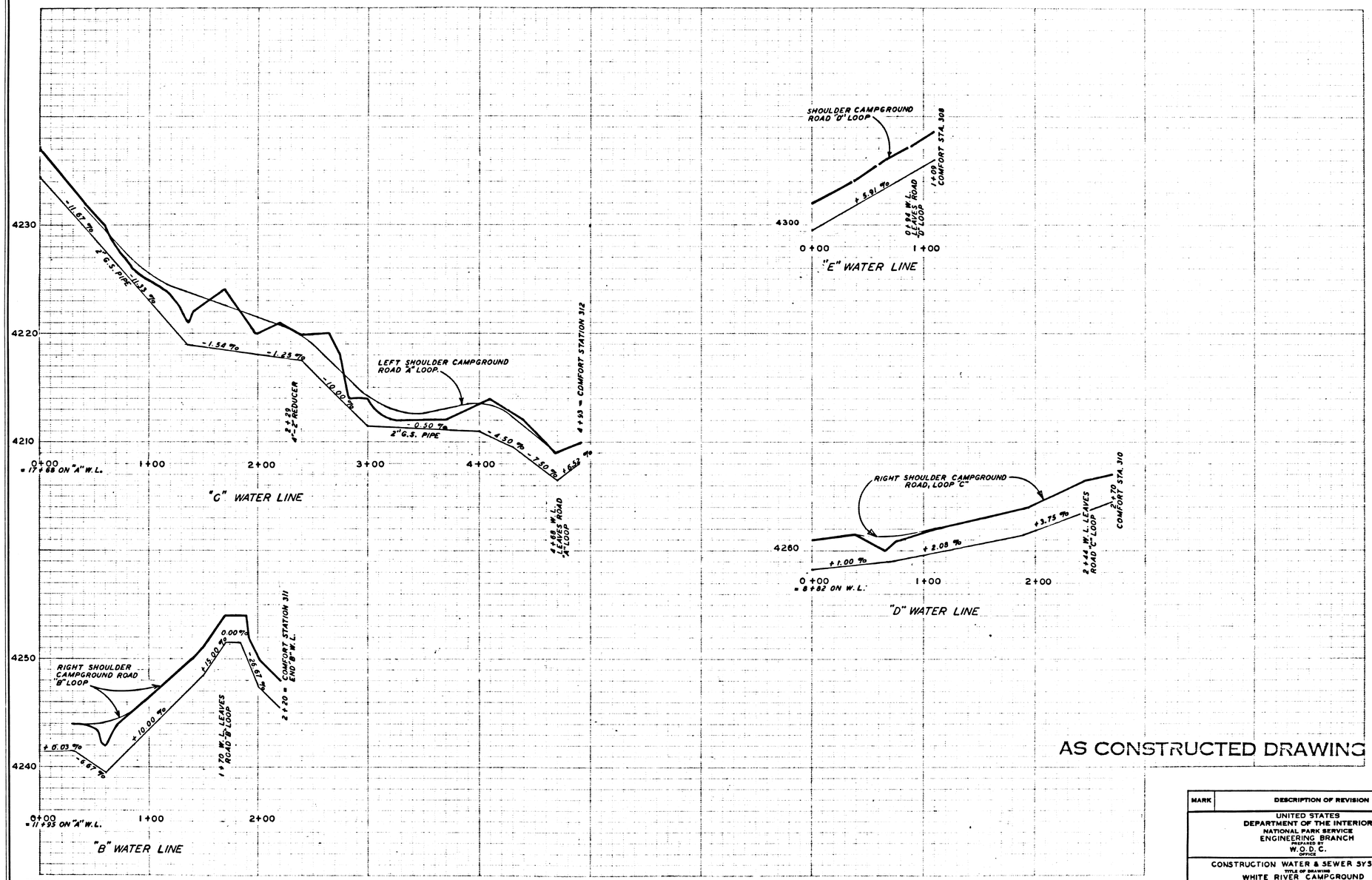
W.O.D.C.
OFFICE

CONSTRUCTION WATER & SEWER SYSTEMS
TITLE OF DRAWING
WHITE RIVER CAMPGROUND
LOCATION WITHIN PARK
MOUNT RAINIER NATIONAL PARK
NAME OF PARK

PREPARED
DESIGNED
TRACED
CHECKED
REVISED
REGION WESTERN
PCP NO.
SHEET 4 OF 10
DRAWING NO. N. P:RAI 3409 B
DATE DEC. 1963



AS CONSTRUCTED DRAWING

MARK	DESCRIPTION OF REVISION	DATE	INITIAL

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DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
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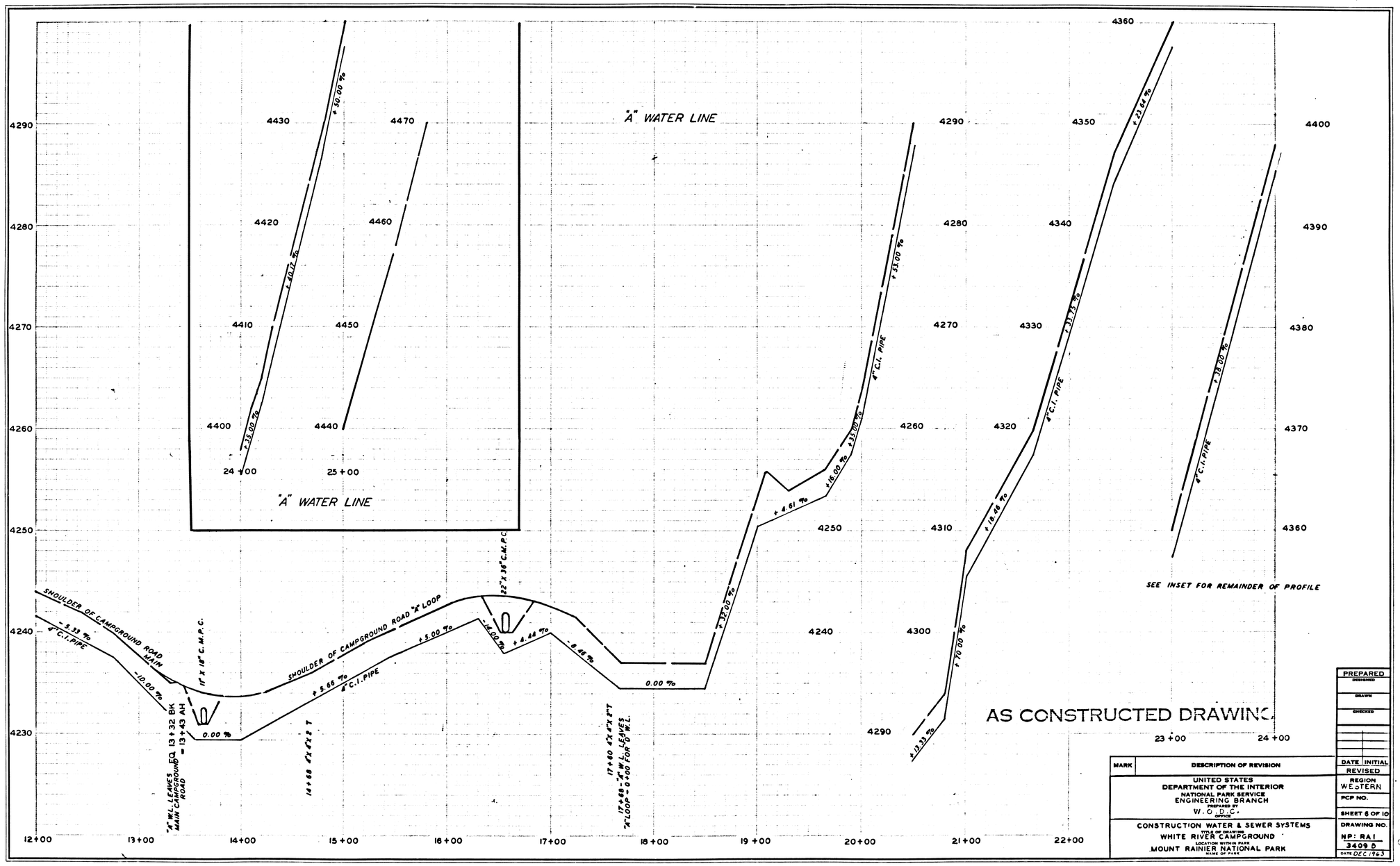
W.O.D.C.
OFFICE

CONSTRUCTION WATER & SEWER SYSTEMS
TITLE OF DRAWING
WHITE RIVER CAMPGROUND
LOCATION WITHIN PARK
MOUNT RAINIER NATIONAL PARK
NAME OF PARK

PREPARED
DESIGNED
DRAWN
CHECKED

REVISED
REGION WESTERN
PCP NO.
SHEET 5 OF 10
DRAWING NO. NP: RAI 3409 B
DATE DEC. 63



MARK	DESCRIPTION OF REVISION	DATE	INITIAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
ENGINEERING BRANCH
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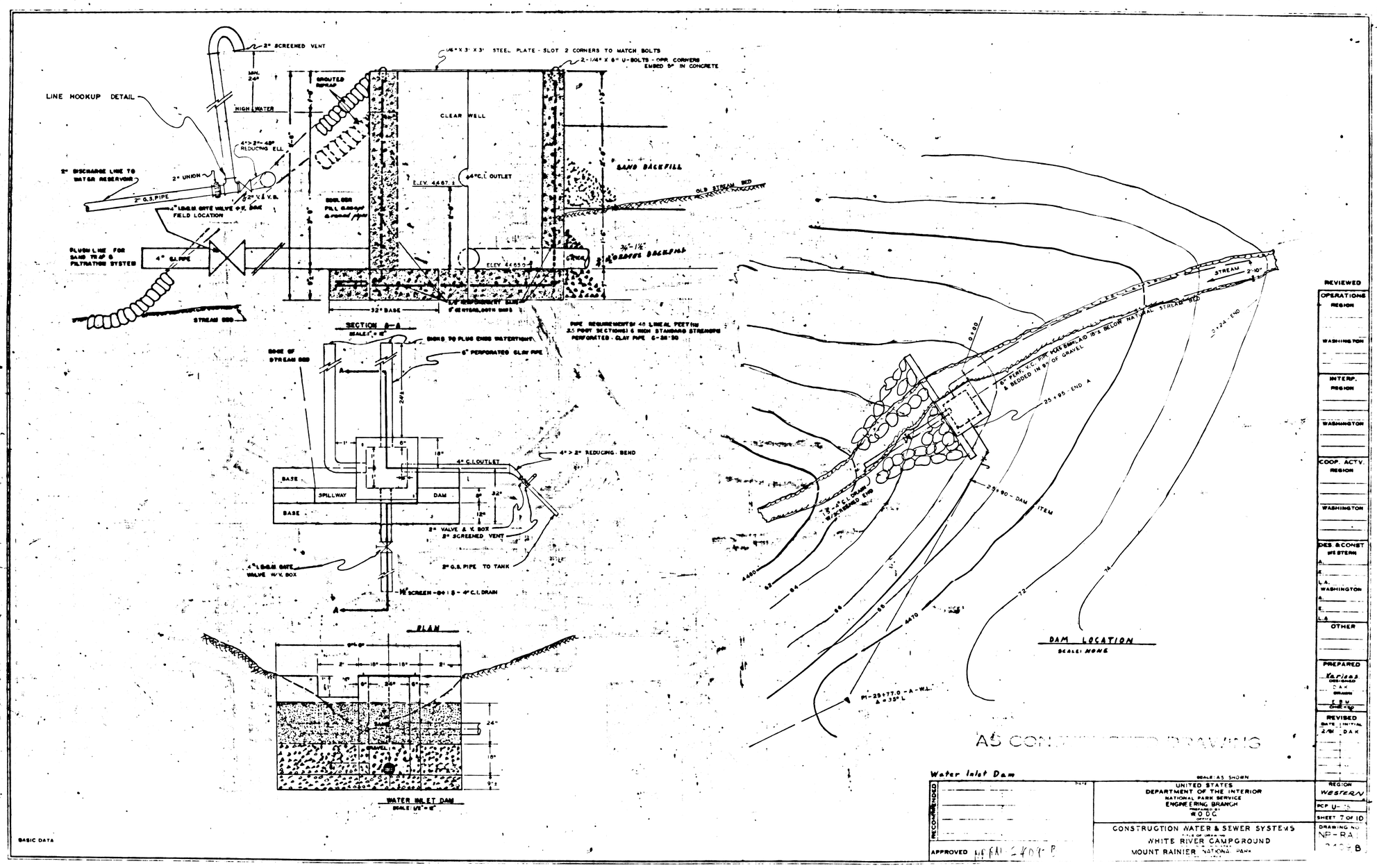
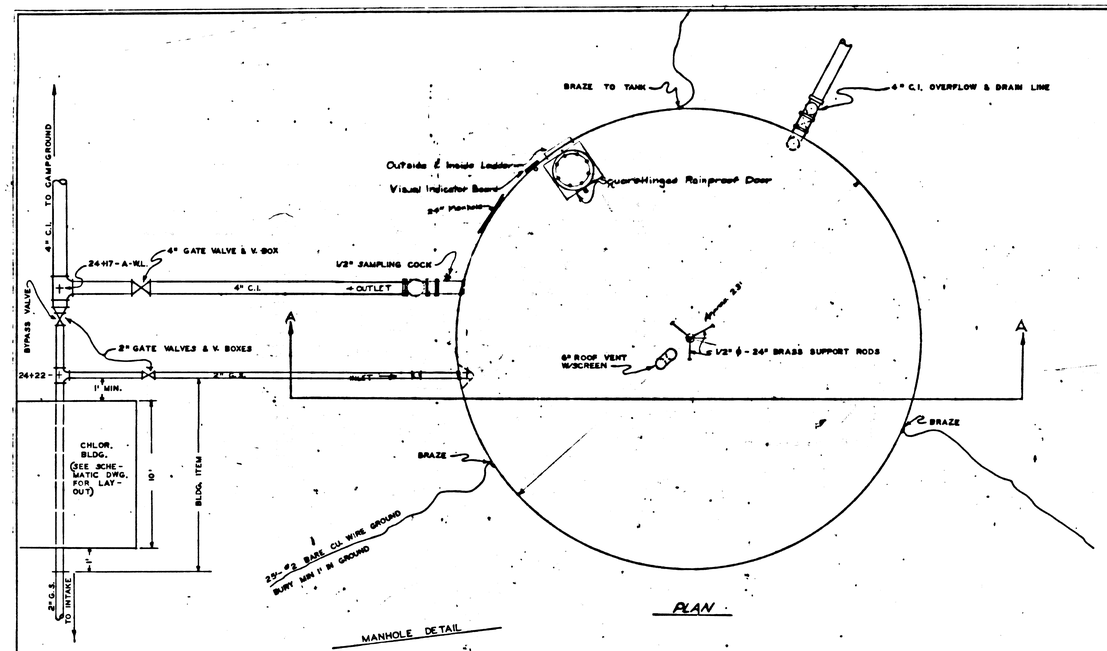
W. O. D. C.
OFFICE

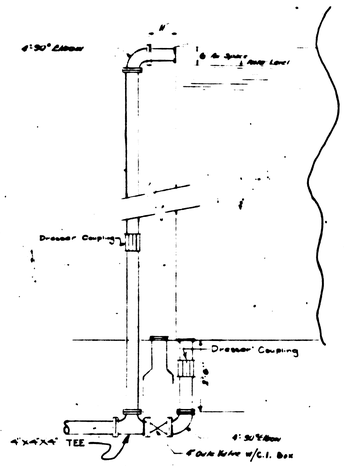
CONSTRUCTION WATER & SEWER SYSTEMS
TITLE OF DRAWING
WHITE RIVER CAMPGROUND
LOCATION WITHIN PARK
MOUNT RAINIER NATIONAL PARK
NAME OF PARK

PREPARED	
DESIGNED	
DRAWN	
CHECKED	
REVISED	
REGION	WESTERN
PCP NO.	
SHEET 6 OF 10	
DRAWING NO.	NP: RA1 3409 B
DATE	DEC. 1963

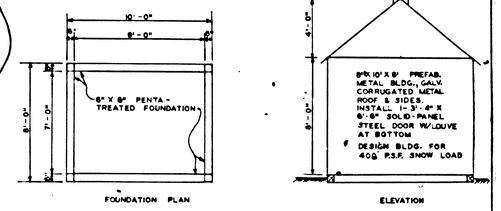

LINE HOOKUP DETAIL
2" SCREENED VENT
MIN. 24"
HIGH WATER
GROUTED RIPRAP
4"x2"x45° REDUCING ELL
2" UNION
2" DISCHARGE LINE TO WATER RESERVOIR
2" G.S. PIPE
2" V.E.V.B.
4" LINE W. GATE VALVE O.K. BASE FIELD LOCATION
FLUSH LINE FOR SAND TRAP & FILTRATION SYSTEM
4" G.I. PIPE
STREAM BED
1/4" X 3' X 3' STEEL PLATE - SLOT 2 CORNERS TO MATCH BOLTS
2-1/4" X 8" U-BOLTS - OPP. CORNERS EMBED 5" IN CONCRETE
CLEAR WELL
ELEV. 4467.5
64" C.I. OUTLET
ELEV. 4465.0
SAND BACKFILL
OLD STREAM BED
3/4"-1 1/2" GRAVEL BACKFILL
32" BASE
SECTION B-A
SCALE: 1/4" = 1'
SIDES TO PLUG ENDS WATERTIGHT
6" PERFORATED CLAY PIPE
PIPE REQUIREMENTS: 40 LINEAL FEET (2.5 FOOT SECTIONS) 6 INCH STANDARD STRENGTH PERFORATED - CLAY PIPE 6-30-50
4" G.I. OUTLET
4"x2" REDUCING - BEND
BASE
SPILLWAY
DAM
2" VALVE & V. BOX
2" SCREENED VENT
2" G.S. PIPE TO TANK
4" L.S.G.B. GATE VALVE W/V. BOX
1/4" SCREEN - 64 I.S. - 4" C.I. DRAIN
PLAN
WATER INLET DAM
SCALE: 1/4" = 1'
STREAM
2"-10"
6" PLAIN V.C. PIPE WITH BAND 18" BELOW NATURAL STREAM BED & BEDDED IN 3/4" OF GRAVEL
25+95 - END A
25+90 - DAM ITEM
4480
82
84
86
88
4470
72
74
DAM LOCATION
SCALE: NONE
PI - 25+77.0 - A - W.L.
Δ = 35° L
AS CONSTRUCTED DRAWING
BASIC DATA
Water Inlet Dam
SCALE: AS SHOWN
RECOMMENDED
APPROVED
UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
ENGINEERING BRANCH
PREPARED BY
W.O.D.C.
OFFICE
CONSTRUCTION WATER & SEWER SYSTEMS
WHITE RIVER CAMPGROUND
MOUNT RAINIER NATIONAL PARK
REVIEWED
OPERATIONS REGION
WASHINGTON
INTERP. REGION
WASHINGTON
COOP. ACTY. REGION
WASHINGTON
DES & CONST WESTERN
L.A.
WASHINGTON
OTHER
PREPARED
Varies
DESIGNED
DAK
DRAWN
TJW
CHECKED
REVISED
DATE
INITIAL
DAK
REGION
WESTERN
PCF U-13
SHEET 7 OF 10
DRAWING NO.
NP-RA
2409-B



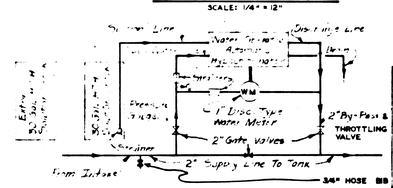
PLAN



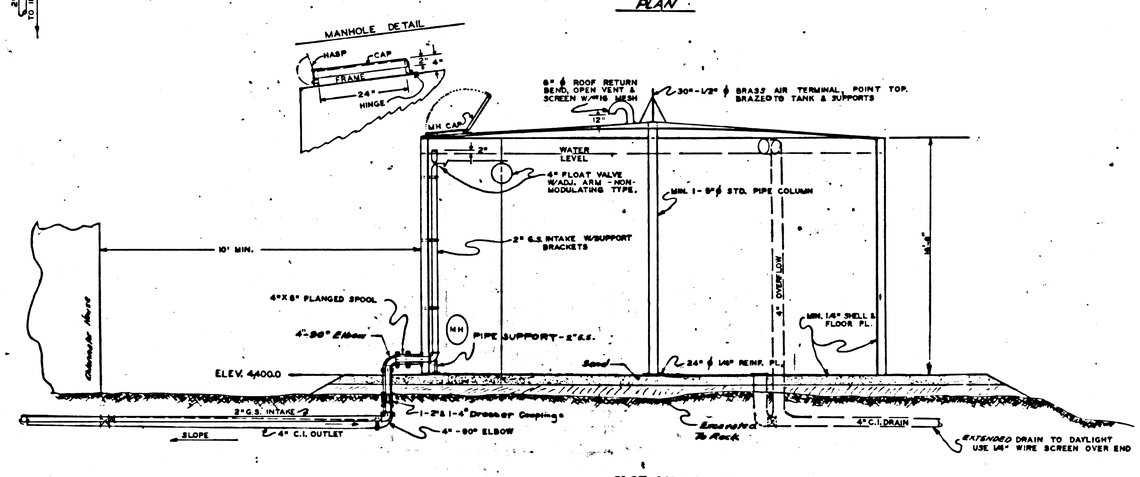
OVERFLOW & DRAINLINE DETAIL
Scale 1/2"=1'-0"



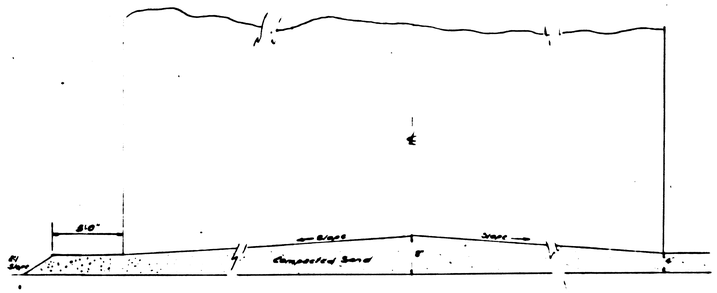
HYPOCHLORINATOR BUILDING
SCALE: 1/4" = 12"



SCHEMATIC
HYPOCHLORINATOR INSTALLATION
No Scale



SECTION A-A
50,000 GALLON STEEL RESERVOIR
No Scale



DETAIL OF SAND BASE
No Scale

AS CONSTRUCTED DRAWING

WATER RESERVOIR & CHLOR. BLDG.

BASIC DATA

RECOMMENDED

APPROVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
ENGINEERING BRANCH
WASH. D.C.

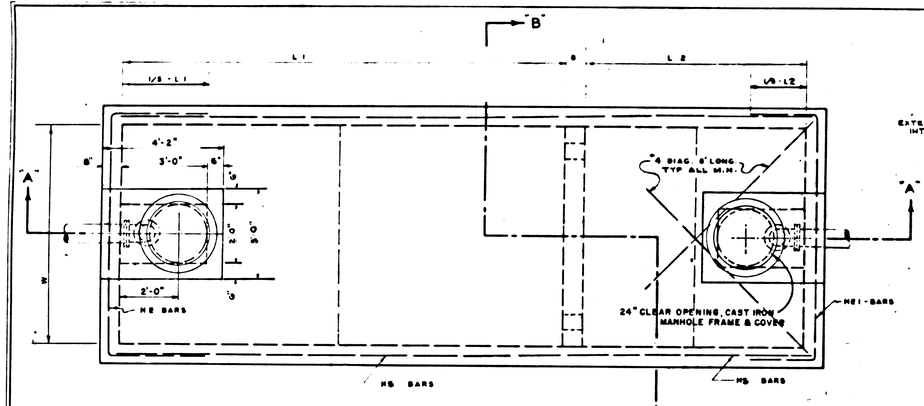
CONSTRUCTION WATER & SEWER SYSTEMS
WHITE RIVER CAMPGROUND
MOUNT RAINIER NATIONAL PARK

REVIEWED
OPERATIONS REGION — WASHINGTON
INTERP REGION — WASHINGTON
COOP ACTY REGION — WASHINGTON
DES & CONST WESTERN — WASHINGTON
OTHER

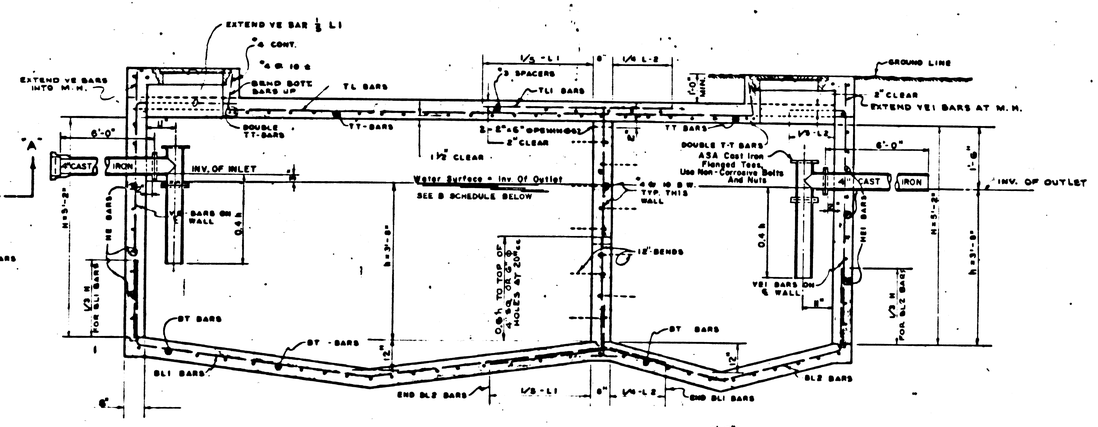
PREPARED
L. HECKMAN
DES. CHKD. D.A.K.
DRAWN E.B.M.
CHECKED

REVISED
DATE INITIAL

REGION WESTERN
RCP U-76 B-158
SHEET 8 OF 10
DRAWING NO. NP-RAI 3409 B
DEC. 1968



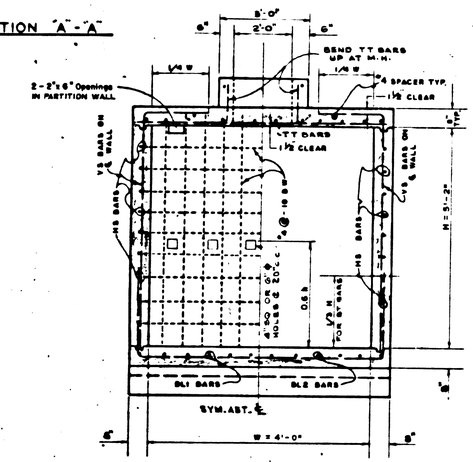
PLAN



SECTION "A"-"A"

B SCHEDULE

C.S. SERVED	INLET EL.	OUTLET EL.
308	4296.±	95.75
309	4273.±	72.75
310	4264.±	63.75
311	4245.±	44.75
312	4217.±	16.75



SECTION "B"-"B"

VOLUME* GALLONS	W IN WIDTH	L1 LONG LENGTH	L2 SHORT LENGTH	H HEIGHT	h Liquid Depth
750	3'-4"	6'-8"	3'-4"	4'-0"	2'-6"
1000	3'-6"	7'-0"	3'-6"	4'-8"	3'-2"
1100	3'-6"	7'-0"	3'-6"	5'-0"	3'-6"
1,500	4'-0"	8'-0"	4'-0"	5'-2"	3'-8"
1600	4'-0"	8'-0"	4'-0"	5'-6"	4'-0"
2000	4'-4"	8'-8"	4'-4"	5'-9"	4'-3"
2250	4'-6"	9'-0"	4'-6"	6'-0"	4'-6"
2500	4'-8"	9'-4"	4'-8"	6'-2"	4'-8"
3000	5'-0"	10'-0"	5'-0"	6'-4"	4'-10"
3500	5'-4"	10'-8"	5'-4"	6'-6"	5'-0"
4000	5'-5"	11'-4"	5'-8"	6'-8"	5'-0"

THIS CONTRACT

V = 1.5 Q

W = 1125 + .75 Q

* Volume Of Tank Should Equal 1½ Times Daily Flow
For Flows Up To 1333 GPD.
For Flows Over 1333 GPD, But Less Than 4425 GPD,
Volume Required Is 1125 +.75 Q.

NOTES:
STRUCTURES DESIGNED ON BASIS OF 1' OF 100 #/C.F. FILL ON TOP AND RESULTING LOADS WITH STRUCTURE EMPTY.
3200 PSI CONCRETE
ALL SPLICES AND DOWELS TO LAP 18 INCHES OR AS SHOWN
COAT EXPOSED FACES OF PIPE TEE FLANGES WITH ASPHALT PAINT

LEGEND

L1 = LONG LENGTH
L2 = SHORT "
W = WIDTH
H = HEIGHT
VE = VERTICAL END BARS
VS = VERTICAL SIDEWALL BARS
HE = HORZ. ENDWALL BARS
HS = HORZ. SIDEWALL BARS
BL = BOTTOM SLAB LONGIT. BARS
ST = " " TRANSVERSE BARS
TL = TOP SLAB LONGIT. BARS
TT = " " TRANSVERSE BARS

NOTE: ALL BARS ARE #4 @ 10" C.C.

AS CONSTRUCTED DRAWING

SEPTIC TANK (1,500 GAL.)

NOT TO SCALE

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
ENGINEERING BRANCH
WODC

CONSTRUCTION WATER & SEWER SYSTEMS
WHITE RIVER CAMPGROUND
MOUNT RAINIER NATIONAL PARK

OTHER
RWCDA STRUCTURAL

PREPARED
MORRIS
SHAPPER

REVISED
6-21-95 L.R.
6-26-96 Hanavy
4/81 D.A.K.

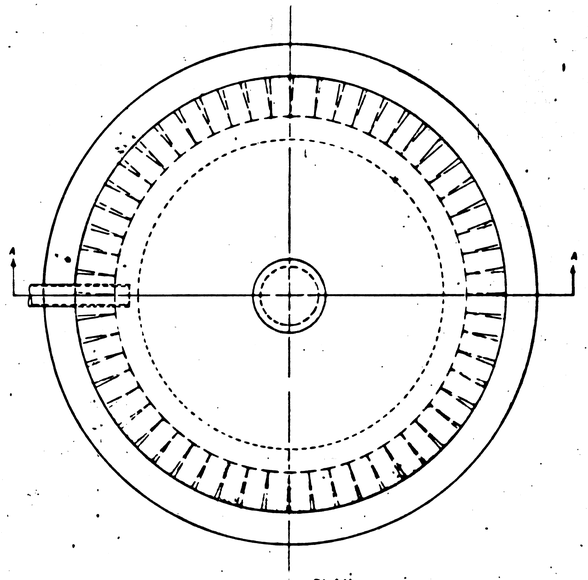
REGION
WESTERN

PCP U-75

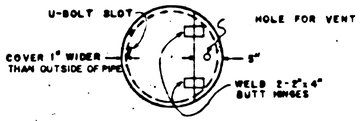
SHEET 9 OF 10

DRAWING NO.
NP-RAI
3409 B

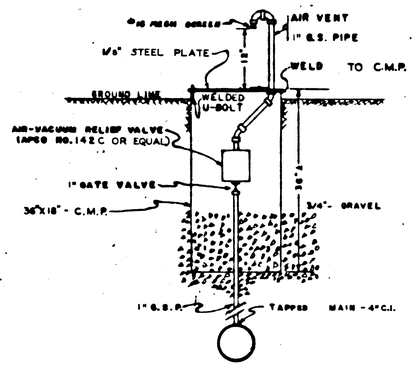
DATE Dec. 1963



PLAN

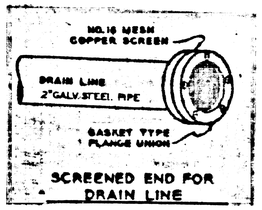


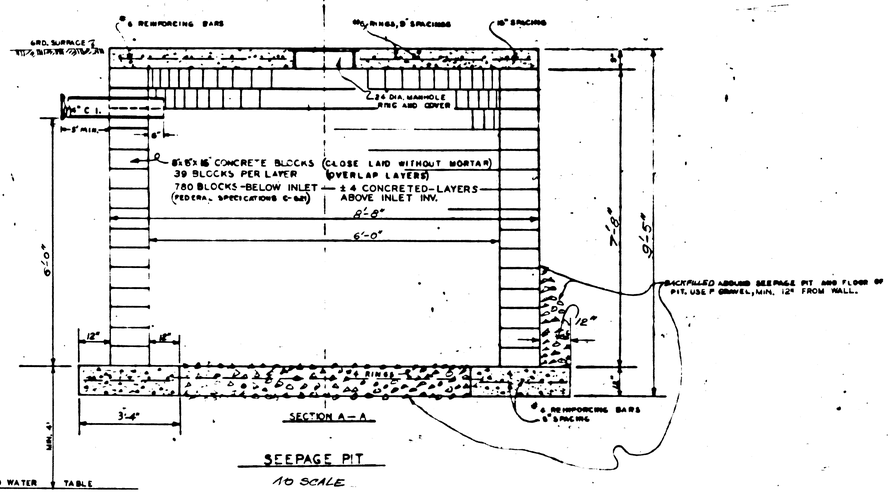
PLAN



RELIEF VALVE

SCALE 1"=1'
STA. 16+90-A
COLOR TO BE FLAT BLACK





SECTION A—A

SEEPAGE PIT

1/0 SCALE

BASIC DATA

AS CONSTRUCTED DRAWING

SEEPAGE PIT

RECOMMENDED

APPROVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
ENGINEERING BRANCH
W.O.

CONSTRUCTION WATER & SEWER SYSTEMS

WHITE RIVER CAMPGROUND

MOUNT RAINIER NATIONAL PARK

PREPARED
E B M
D A M
E B M
CHECKED

REVISED
DATE INITIAL
1

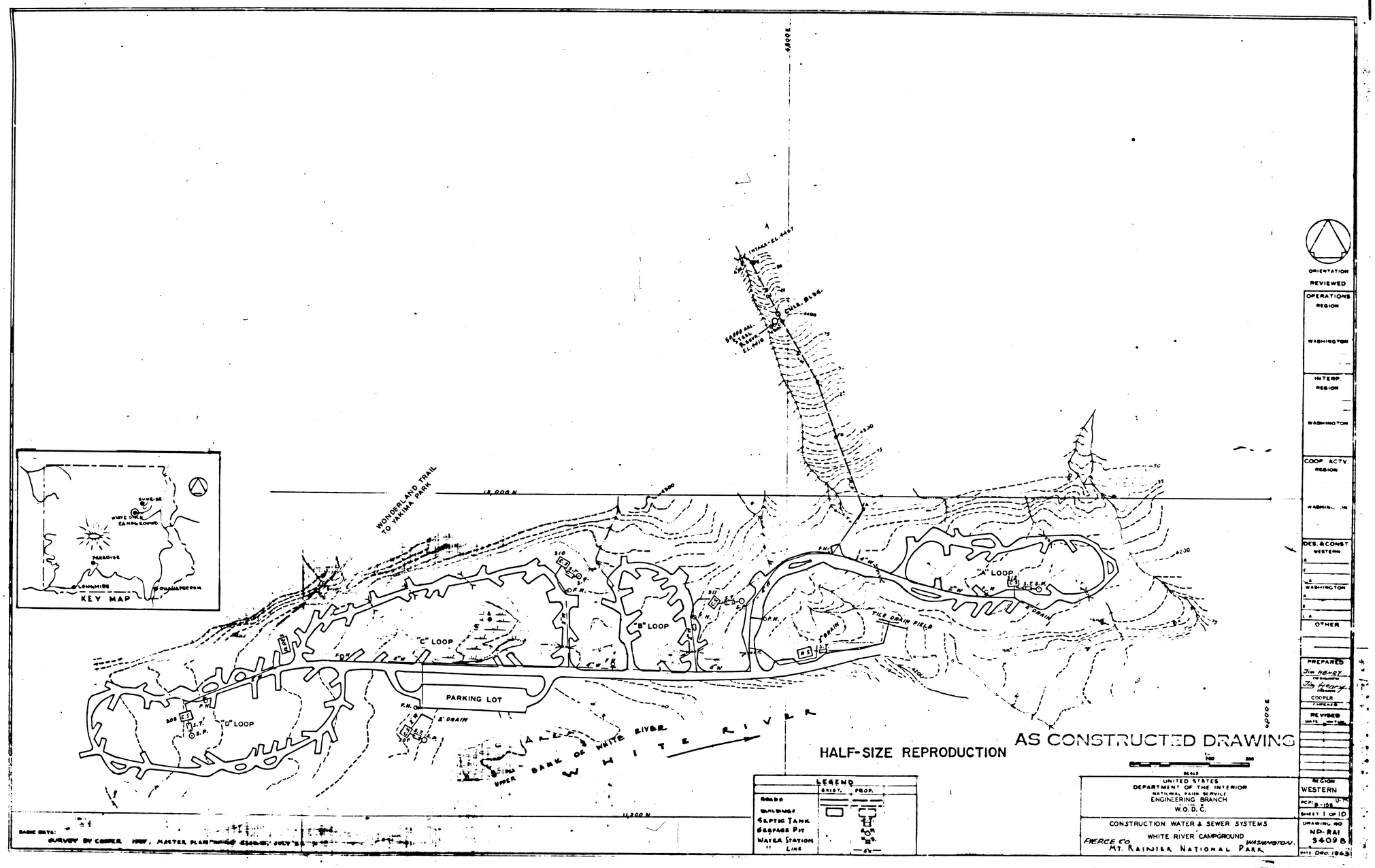
REGION
WESTERN

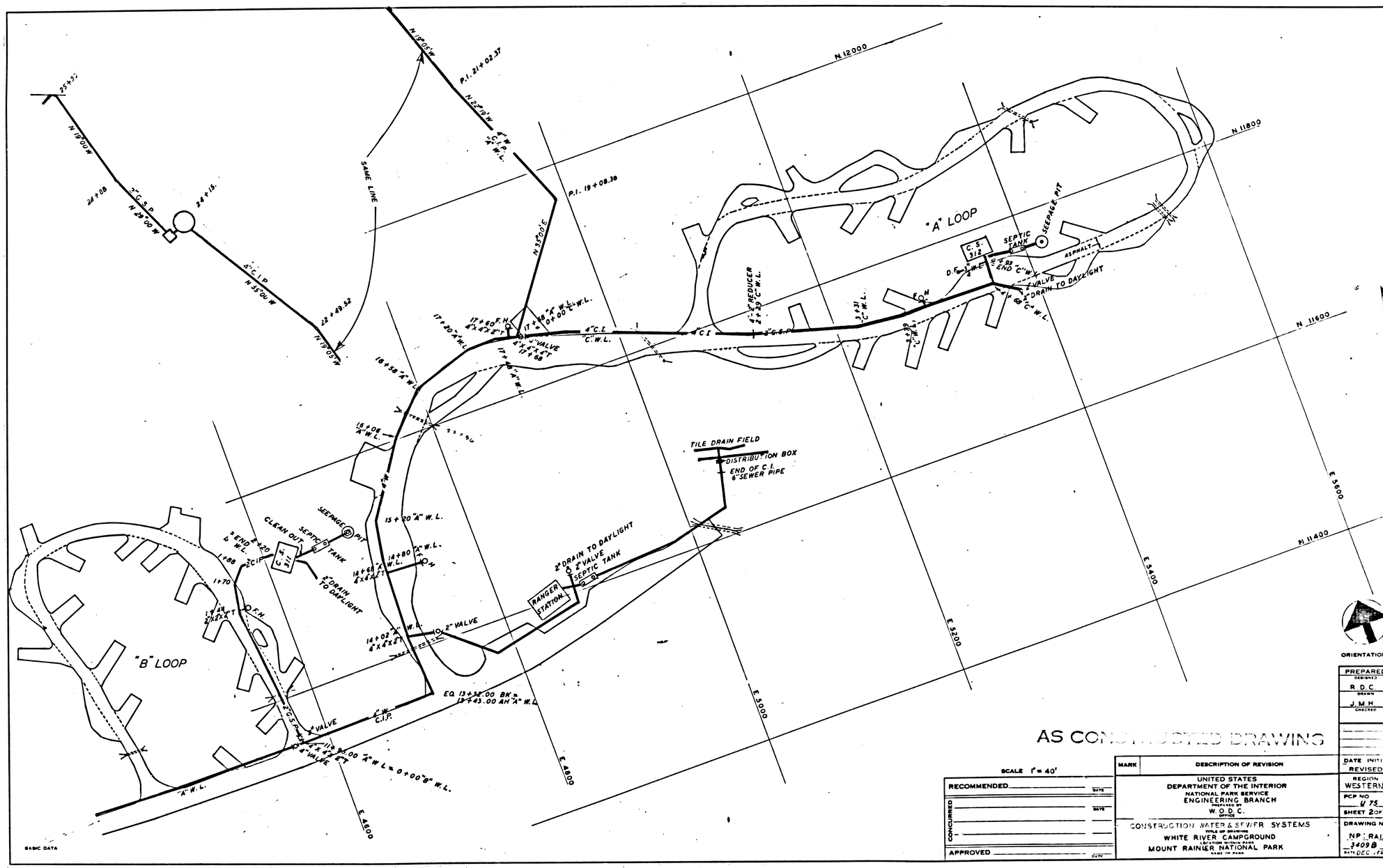
PCP U-75

sheet 10 of 10

DRAWING NO
NP-RAI
7409 B

DEC. 1963


KEY MAP
SUNRISE
WHITE RIVER CAMPGROUND
PARADISE
LONGMIRE
OHANAPECOSH
WONDERLAND TRAIL TO YAKIMA PARK
12,000 N
11,200 N
"A" LOOP
"B" LOOP
"C" LOOP
"D" LOOP
PARKING LOT
TILE DRAIN FIELD
UPPER BANK OF WHITE RIVER
WHITE RIVER
HALF-SIZE REPRODUCTION
AS CONSTRUCTED DRAWING
LEGEND
EXIST.
PROP.
ROADS
BUILDINGS
SEPTIC TANK
SEEPAGE PIT
WATER STATION
LINE
ORIENTATION
REVIEWED
OPERATIONS REGION
WASHINGTON
INTERP. REGION
WASHINGTON
COOP ACTV REGION
DES. & CONST WESTERN
WASHINGTON
OTHER
PREPARED
Jim Henry
COOPER
REVISED
UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
ENGINEERING BRANCH
W.O.D.C.
CONSTRUCTION WATER & SEWER SYSTEMS
WHITE RIVER CAMPGROUND
PIERCE CO. WASHINGTON
MT. RAINIER NATIONAL PARK
REGION WESTERN
SHEET 1 OF 10
DRAWING NO NP-RAI 3409 B
DATE DEC. 1963



ORIENTATION

AS CONSTRUCTED DRAWING

SCALE 1" = 40'

RECOMMENDED _____ DATE

CONCURRED _____ DATE

_____

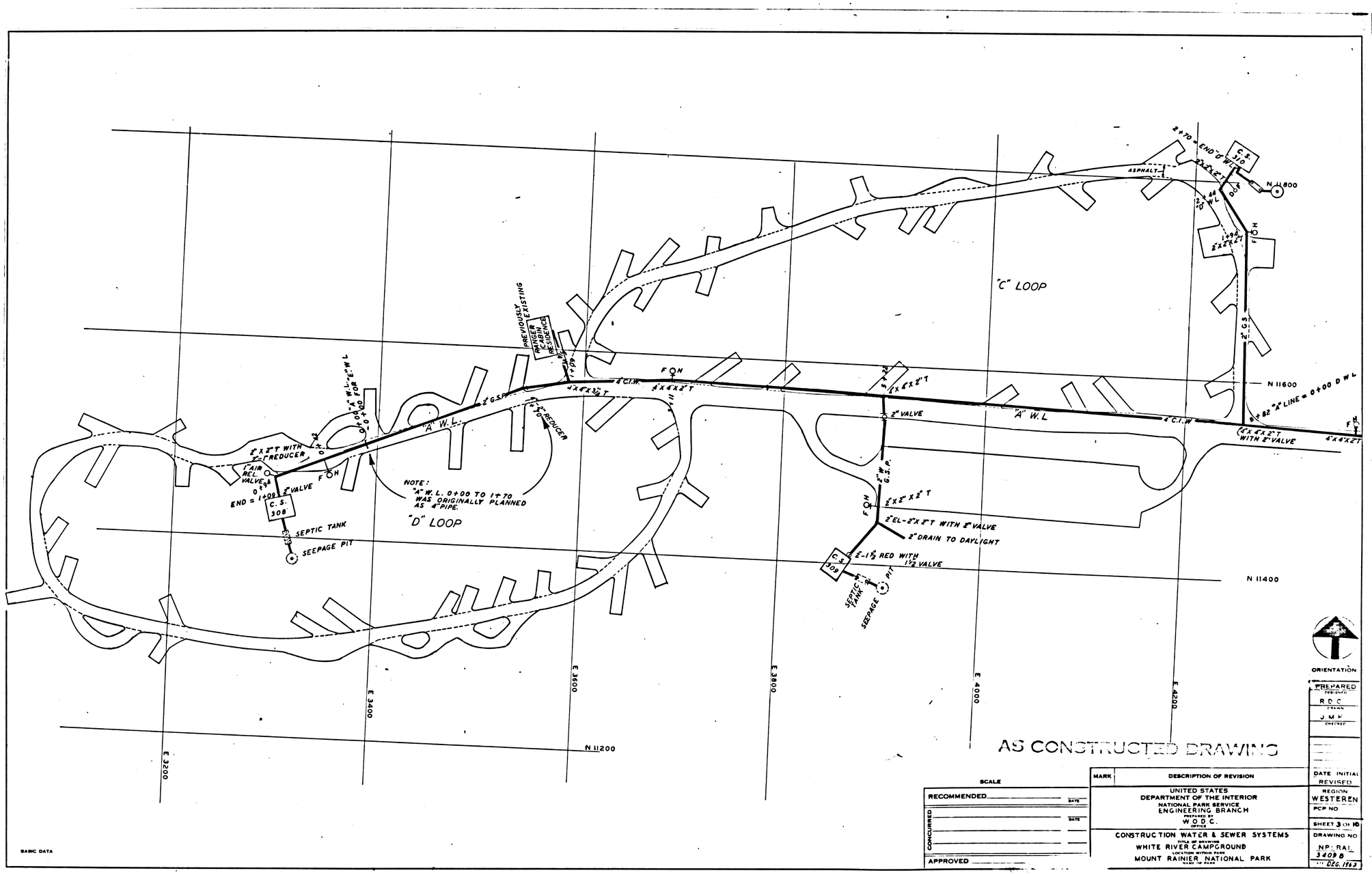
APPROVED _____ DATE

MARK	DESCRIPTION OF REVISION	DATE	INITIAL
		REVISED	

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
ENGINEERING BRANCH
PREPARED BY
W.O.D.C.
OFFICE

CONSTRUCTION WATER & SEWER SYSTEMS
TITLE OF DRAWING
WHITE RIVER CAMPGROUND
LOCATION WITHIN PARK
MOUNT RAINIER NATIONAL PARK
NAME OF PARK

PREPARED	
DESIGNED	R. D. C
DRAWN	J. M. H
CHECKED	
REGION	WESTERN
PCP NO	U 75
SHEET	2 OF 10
DRAWING NO	NP: RAI 3409B
DATE	DEC. 1963



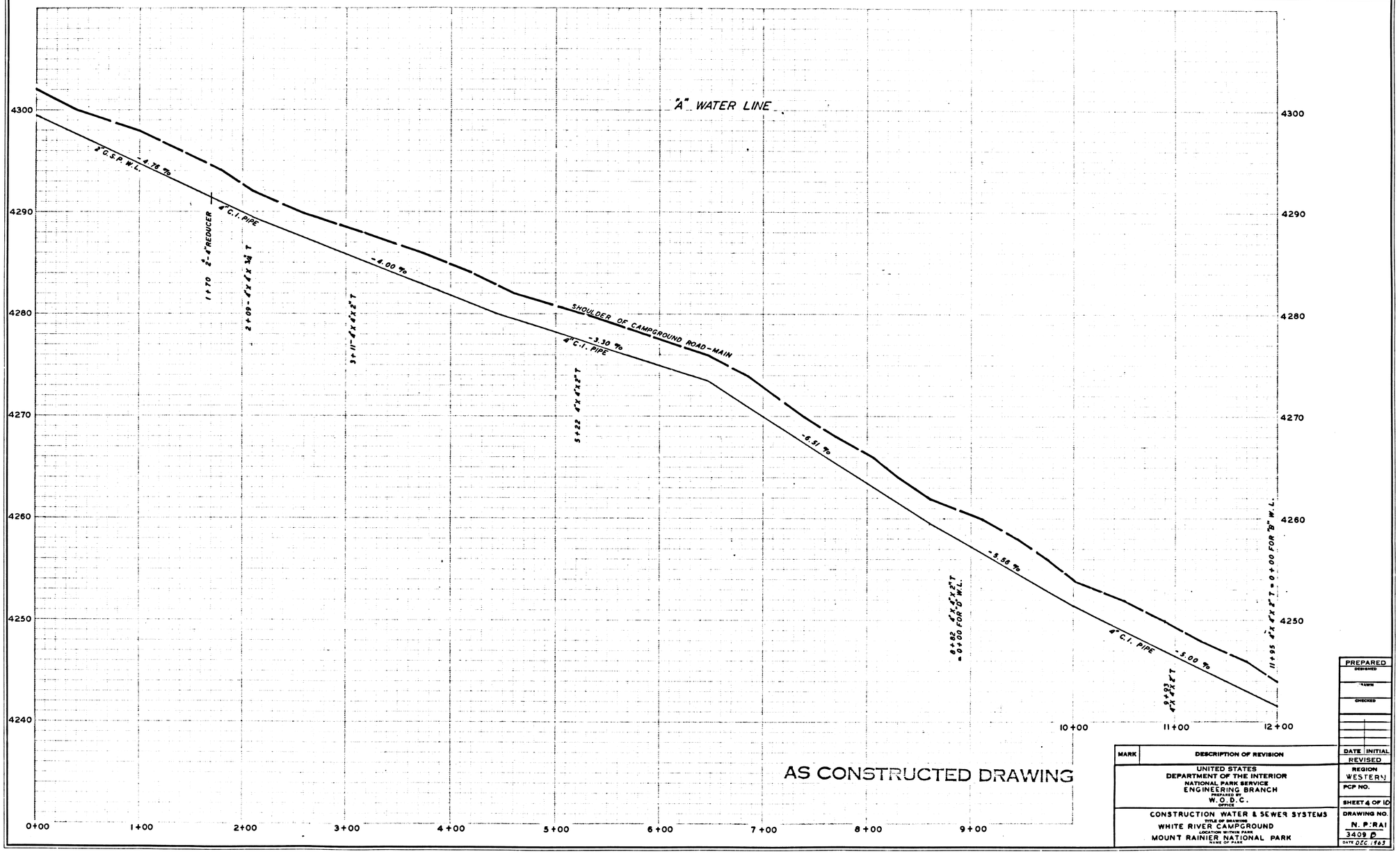
SCALE	MARK	DESCRIPTION OF REVISION	DATE	INITIAL	REVISED
RECOMMENDED _____ DATE					
CONCURRED _____ DATE					
APPROVED _____					

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
ENGINEERING BRANCH
PREPARED BY W O D C. OFFICE

TITLE OF DRAWING: CONSTRUCTION WATER & SEWER SYSTEMS
LOCATION WITHIN PARK: WHITE RIVER CAMPGROUND
NAME OF PARK: MOUNT RAINIER NATIONAL PARK

PREPARED DRAWN: R D C
CHECKED: J M F

REGION: WESTERN
PCP NO
SHEET 3 OF 10
DRAWING NO: NP: RAI 34098
DEC. 1963

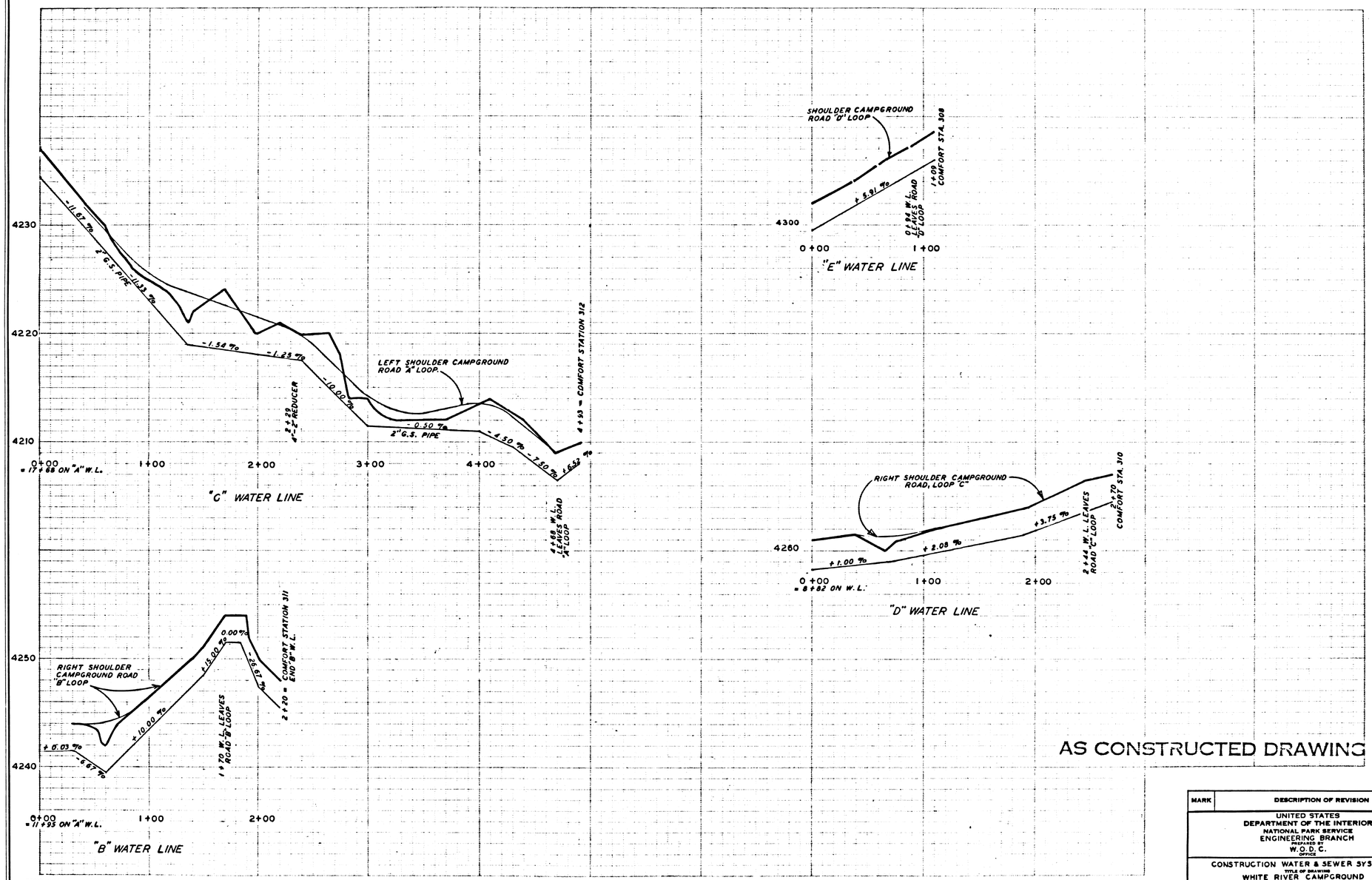


MARK	DESCRIPTION OF REVISION	DATE	INITIAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
ENGINEERING BRANCH
PREPARED BY
W.O.D.C.
OFFICE

CONSTRUCTION WATER & SEWER SYSTEMS
TITLE OF DRAWING
WHITE RIVER CAMPGROUND
LOCATION WITHIN PARK
MOUNT RAINIER NATIONAL PARK
NAME OF PARK

PREPARED
DESIGNED
TRACED
CHECKED
REVISED
REGION WESTERN
PCP NO.
SHEET 4 OF 10
DRAWING NO. N. P:RAI 3409 B
DATE DEC. 1963



AS CONSTRUCTED DRAWING

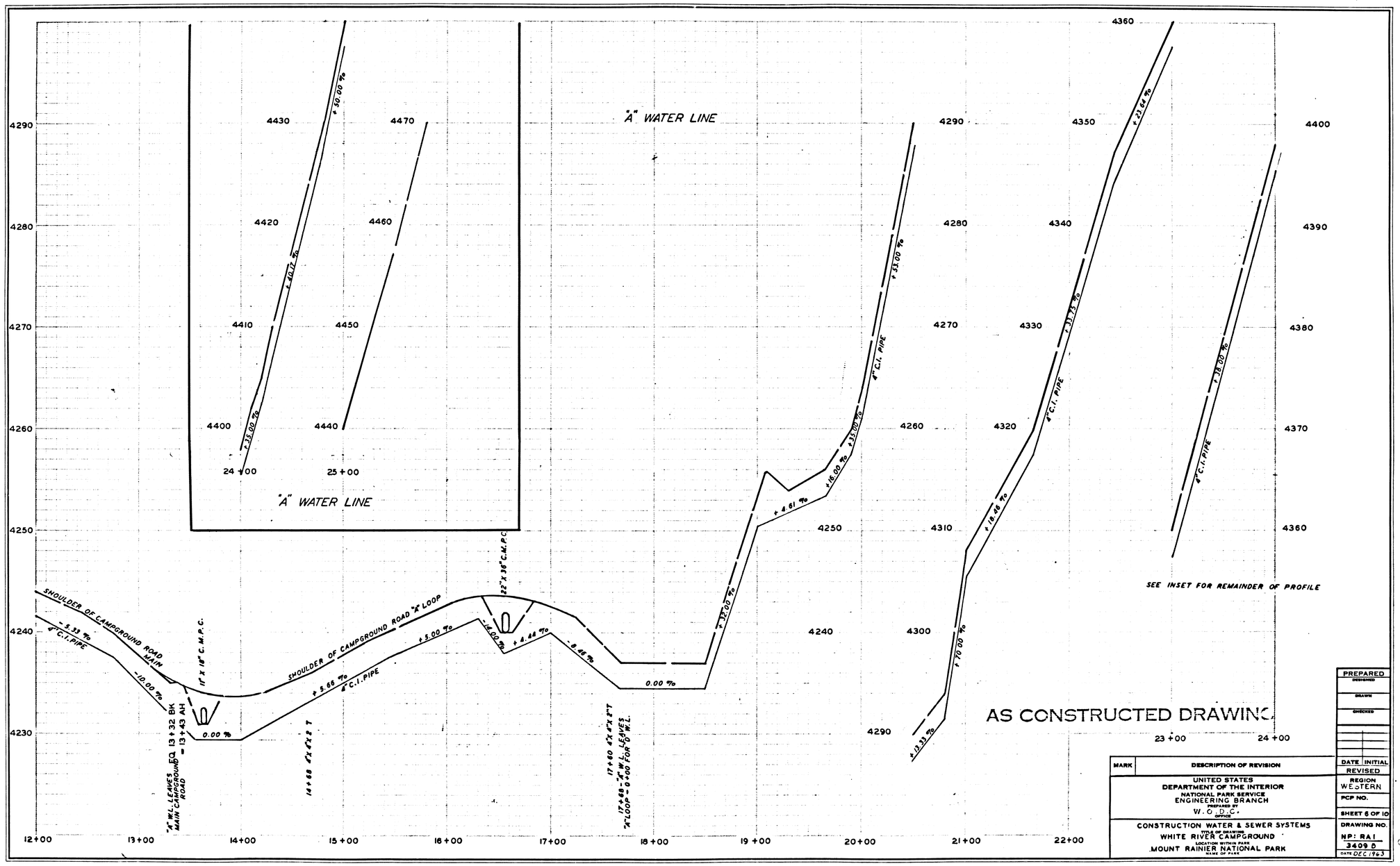
MARK	DESCRIPTION OF REVISION	DATE	INITIAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
ENGINEERING BRANCH
PREPARED BY
W.O.D.C.
OFFICE

CONSTRUCTION WATER & SEWER SYSTEMS
TITLE OF DRAWING
WHITE RIVER CAMPGROUND
LOCATION WITHIN PARK
MOUNT RAINIER NATIONAL PARK
NAME OF PARK

PREPARED
DESIGNED
DRAWN
CHECKED

REVISED
REGION WESTERN
PCP NO.
SHEET 5 OF 10
DRAWING NO. NP: RAI 3409 B
DATE DEC. 63

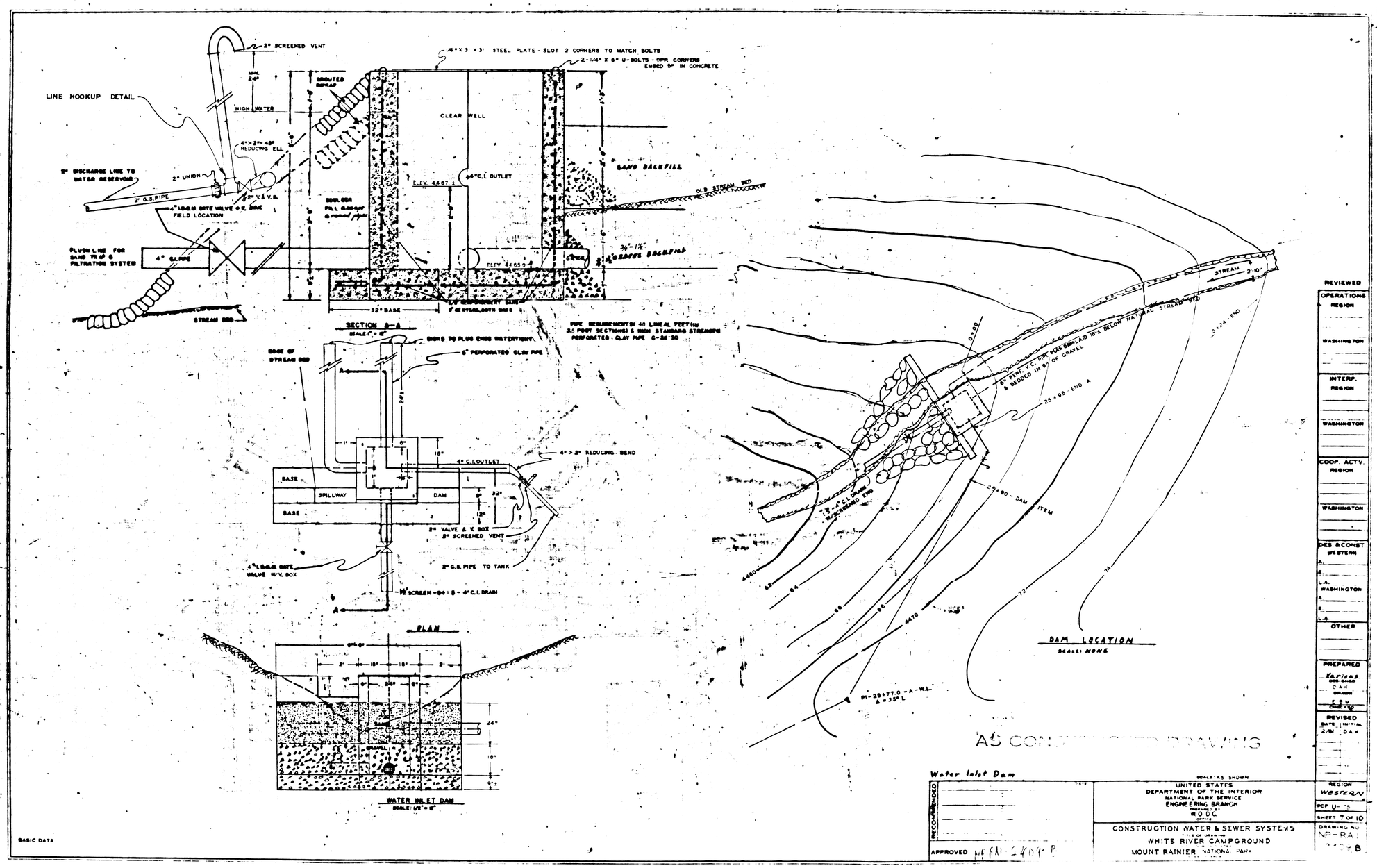


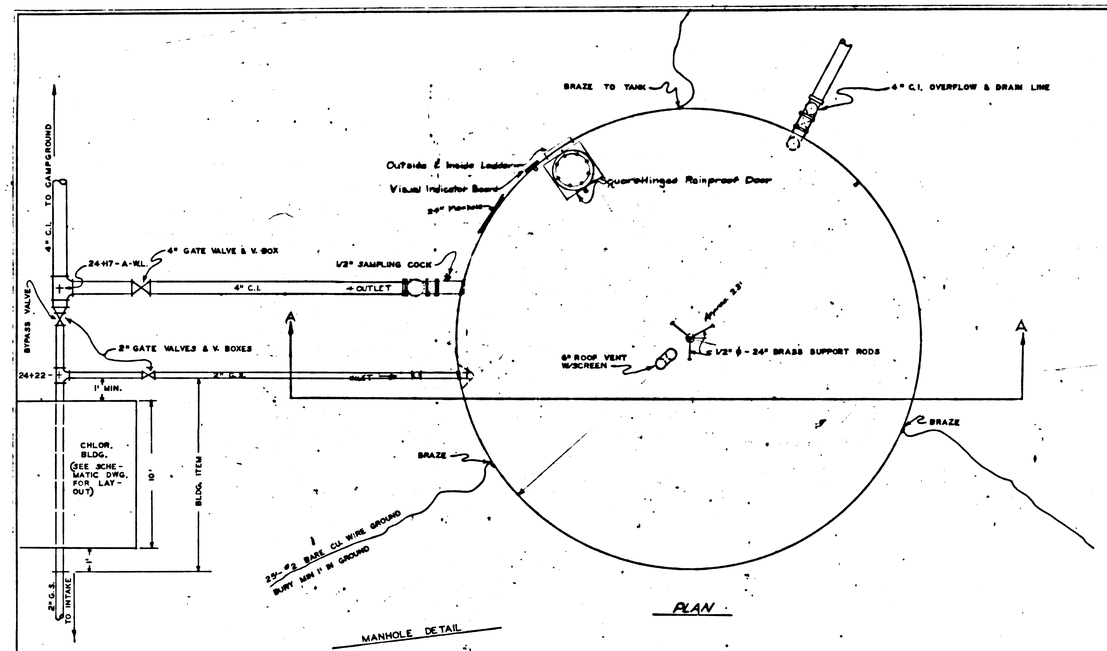
MARK	DESCRIPTION OF REVISION	DATE	INITIAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
ENGINEERING BRANCH
PREPARED BY
W. O. D. C.
OFFICE

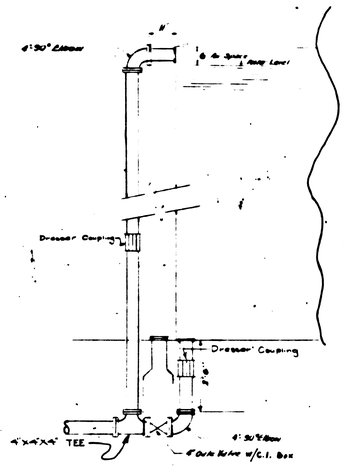
CONSTRUCTION WATER & SEWER SYSTEMS
TITLE OF DRAWING
WHITE RIVER CAMPGROUND
LOCATION WITHIN PARK
MOUNT RAINIER NATIONAL PARK
NAME OF PARK

PREPARED	
DESIGNED	
DRAWN	
CHECKED	
REVISED	
REGION	WESTERN
PCP NO.	
SHEET 6 OF 10	
DRAWING NO.	NP: RA1 3409 B
DATE	DEC. 1963

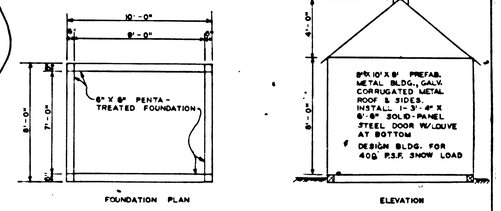

LINE HOOKUP DETAIL
2" SCREENED VENT
MIN. 24"
HIGH WATER
GROUTED RIPRAP
4"x2"x45° REDUCING ELL
2" UNION
2" DISCHARGE LINE TO WATER RESERVOIR
2" G.S. PIPE
2" V.E.V.B.
4" LINE W. GATE VALVE O.K. BASE FIELD LOCATION
FLUSH LINE FOR SAND TRAP & FILTRATION SYSTEM
4" G.I. PIPE
STREAM BED
1/4" X 3' X 3' STEEL PLATE - SLOT 2 CORNERS TO MATCH BOLTS
2-1/4" X 8" U-BOLTS - OPP. CORNERS EMBED 5" IN CONCRETE
CLEAR WELL
ELEV. 4467.5
64" C.I. OUTLET
ELEV. 4465.0
SAND BACKFILL
OLD STREAM BED
3/4"-1 1/2" GRAVEL BACKFILL
32" BASE
SECTION B-A
SCALE: 1/4" = 1'
SIDES TO PLUG ENDS WATERTIGHT
6" PERFORATED CLAY PIPE
PIPE REQUIREMENTS: 40 LINEAL FEET (2.5 FOOT SECTIONS) 6 INCH STANDARD STRENGTH PERFORATED - CLAY PIPE 6-30-50
4" G.I. OUTLET
4"x2" REDUCING - BEND
BASE
SPILLWAY
DAM
2" VALVE & V. BOX
2" SCREENED VENT
2" G.S. PIPE TO TANK
4" L.S.G.B. GATE VALVE W/V. BOX
1/4" SCREEN - 64 I.S. - 4" C.I. DRAIN
PLAN
WATER INLET DAM
SCALE: 1/4" = 1'
STREAM
2"-10"
6" PLAIN V.C. PIPE WITH BAND 18" BELOW NATURAL STREAM BED & BEDDED IN 3/4" OF GRAVEL
25+95 - END A
25+90 - DAM ITEM
4480
82
84
86
88
4470
72
74
DAM LOCATION
SCALE: NONE
PI - 25+77.0 - A - W.L.
Δ = 35° L
AS CONSTRUCTED DRAWING
BASIC DATA
Water Inlet Dam
SCALE: AS SHOWN
RECOMMENDED
APPROVED
UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
ENGINEERING BRANCH
PREPARED BY
W.O.D.C.
OFFICE
CONSTRUCTION WATER & SEWER SYSTEMS
WHITE RIVER CAMPGROUND
MOUNT RAINIER NATIONAL PARK
REVIEWED
OPERATIONS REGION
WASHINGTON
INTERP. REGION
WASHINGTON
COOP. ACTY. REGION
WASHINGTON
DES & CONST WESTERN
L.A.
WASHINGTON
OTHER
PREPARED
Varies
DESIGNED
DAK
DRAWN
TJW
CHECKED
REVISED
DATE
INITIAL
DAK
REGION
WESTERN
PCF U-13
SHEET 7 OF 10
DRAWING NO.
NP-RA
2409-B



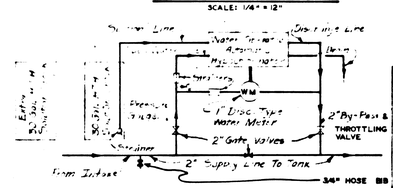
PLAN



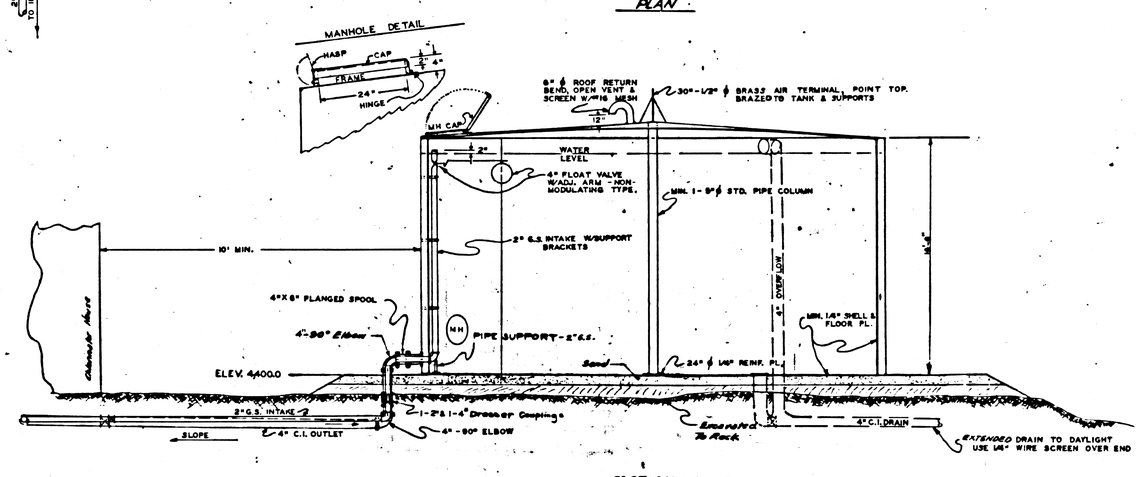
OVERFLOW & DRAINLINE DETAIL
Scale 1/2"=1'-0"



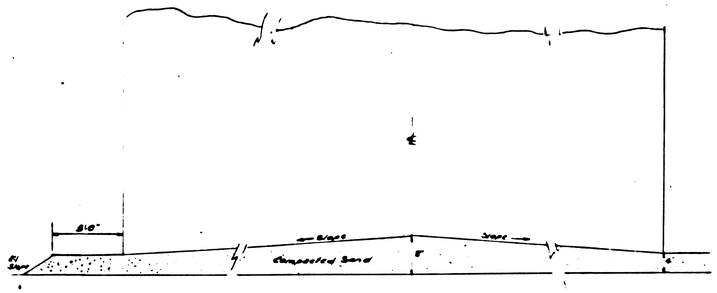
HYPOCHLORINATOR BUILDING
SCALE: 1/4" = 12"



SCHEMATIC
HYPOCHLORINATOR INSTALLATION
No Scale



SECTION A-A
50,000 GALLON STEEL RESERVOIR
No Scale



DETAIL OF SAND BASE
No Scale

AS CONSTRUCTED DRAWING

WATER RESERVOIR & CHLOR. BLDG.

BASIC DATA

RECOMMENDED

APPROVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
ENGINEERING BRANCH
WASH. D.C.

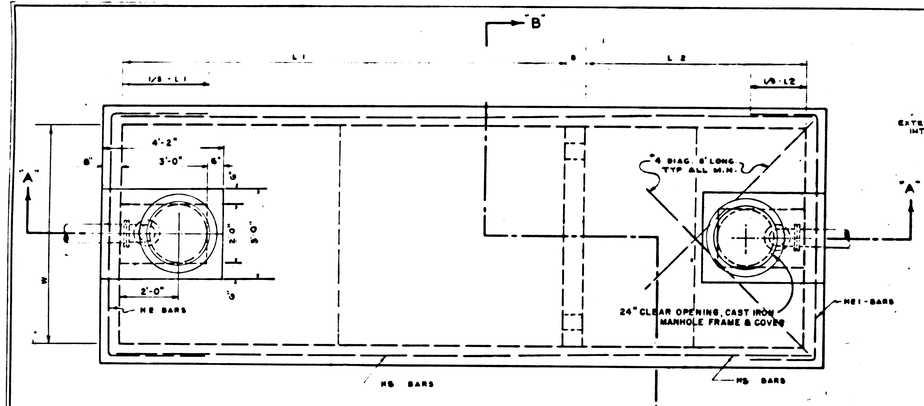
CONSTRUCTION WATER & SEWER SYSTEMS
WHITE RIVER CAMPGROUND
MOUNT RAINIER NATIONAL PARK

REVIEWED
OPERATIONS REGION — WASHINGTON
INTERP REGION — WASHINGTON
COOP ACTY REGION — WASHINGTON
DES & CONST WESTERN — WASHINGTON
OTHER

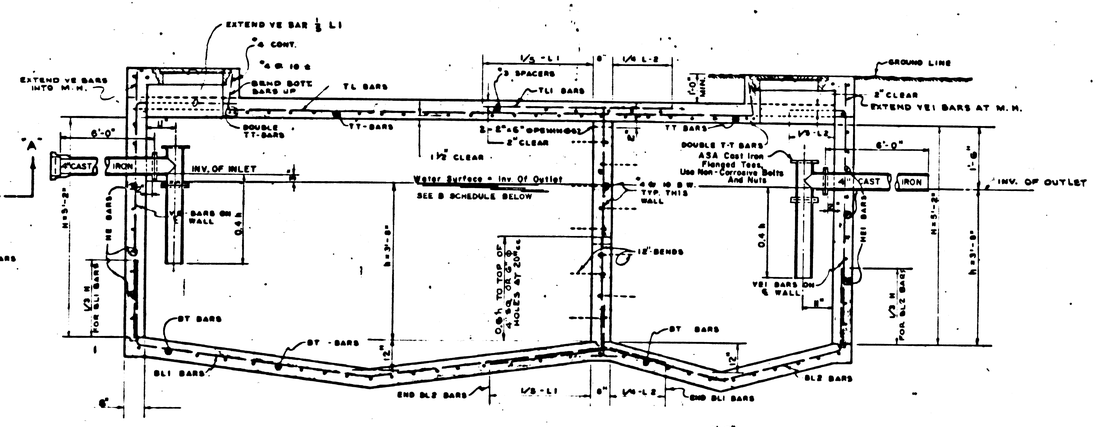
PREPARED
L. HECKMAN
DES. CHKD. D.A.K.
DRAWN E.B.M.
CHECKED

REVISED
DATE INITIAL

REGION WESTERN
RCP U-76 B-158
SHEET 8 OF 10
DRAWING NO. NP-RAI 3409 B
DEC. 1968



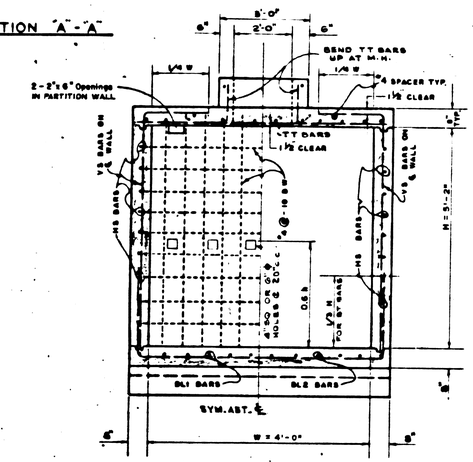
PLAN



SECTION "A"-"A"

B SCHEDULE

C.S. SERVED	INLET EL.	OUTLET EL.
308	4296.±	95.75
309	4273.±	72.75
310	4264.±	63.75
311	4245.±	44.75
312	4217.±	16.75



SECTION "B"-"B"

VOLUME* GALLONS	W IN WIDTH	L1 LONG LENGTH	L2 SHORT LENGTH	H HEIGHT	h Liquid Depth
750	3'-4"	6'-8"	3'-4"	4'-0"	2'-6"
1000	3'-6"	7'-0"	3'-6"	4'-8"	3'-2"
1100	3'-6"	7'-0"	3'-6"	5'-0"	3'-6"
1,500	4'-0"	8'-0"	4'-0"	5'-2"	3'-8"
1600	4'-0"	8'-0"	4'-0"	5'-6"	4'-0"
2000	4'-4"	8'-8"	4'-4"	5'-9"	4'-3"
2250	4'-6"	9'-0"	4'-6"	6'-0"	4'-6"
2500	4'-8"	9'-4"	4'-8"	6'-2"	4'-8"
3000	5'-0"	10'-0"	5'-0"	6'-4"	4'-10"
3500	5'-4"	10'-8"	5'-4"	6'-6"	5'-0"
4000	5'-5"	11'-4"	5'-8"	6'-8"	5'-0"

THIS CONTRACT

V = 1.5 Q

W = 1125 + .75 Q

* Volume Of Tank Should Equal 1½ Times Daily Flow
For Flows Up To 1333 GPD.
For Flows Over 1333 GPD, But Less Than 4425 GPD,
Volume Required Is 1125 +.75 Q.

NOTES:
STRUCTURES DESIGNED ON BASIS OF 1' OF 100 #/C.F. FILL ON TOP AND RESULTING LOADS WITH STRUCTURE EMPTY.
3200 PSI CONCRETE
ALL SPLICES AND DOWELS TO LAP 18 INCHES OR AS SHOWN
COAT EXPOSED FACES OF PIPE TEE FLANGES WITH ASPHALT PAINT

LEGEND

L1 = LONG LENGTH
L2 = SHORT "
W = WIDTH
H = HEIGHT
VE = VERTICAL END BARS
VS = VERTICAL SIDEWALL BARS
HE = HORZ. ENDWALL BARS
HS = HORZ. SIDEWALL BARS
BL = BOTTOM SLAB LONGIT. BARS
ST = " " TRANSVERSE BARS
TL = TOP SLAB LONGIT. BARS
TT = " " TRANSVERSE BARS

NOTE: ALL BARS ARE #4 @ 10" C.C.

AS CONSTRUCTED DRAWING

SEPTIC TANK (1,500 GAL.)

NOT TO SCALE

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
ENGINEERING BRANCH
WODC

CONSTRUCTION WATER & SEWER SYSTEMS
WHITE RIVER CAMPGROUND
MOUNT RAINIER NATIONAL PARK

OTHER
RWCDA STRUCTURAL

PREPARED
MORRIS
SHAPPER

REVISED
6-21-95 L.R.
6-26-96 Hanavy
4/81 D.A.K.

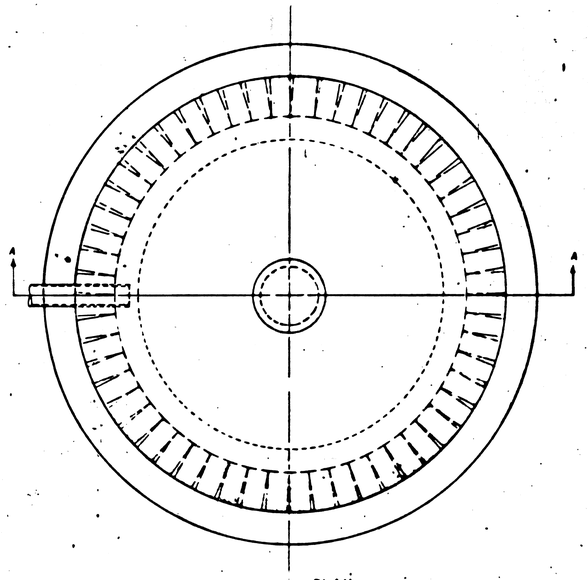
REGION
WESTERN

PCP U-75

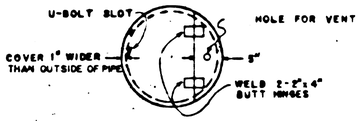
SHEET 9 OF 10

DRAWING NO.
NP-RAI
3409 B

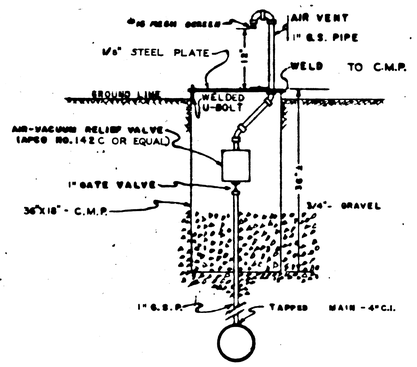
DATE Dec. 1963



PLAN

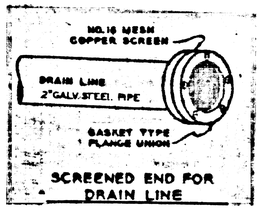


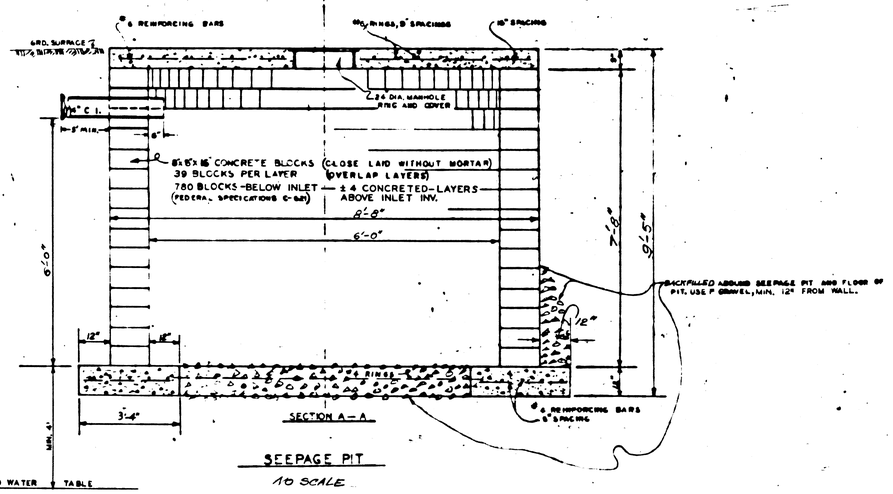
PLAN



RELIEF VALVE

SCALE 1"=1'
STA. 16+90-A
COLOR TO BE FLAT BLACK





SECTION A—A

SEEPAGE PIT

1/0 SCALE

BASIC DATA

AS CONSTRUCTED DRAWING

SEEPAGE PIT

RECOMMENDED

APPROVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
ENGINEERING BRANCH
W.O.

CONSTRUCTION WATER & SEWER SYSTEMS

WHITE RIVER CAMPGROUND

MOUNT RAINIER NATIONAL PARK

PREPARED
E B M
D A M
E B M
CHECKED

REVISED
DATE INITIAL
1

REGION
WESTERN

PCP U-75

sheet 10 of 10

DRAWING NO
NP-RAI
7409 B

DEC. 1963