

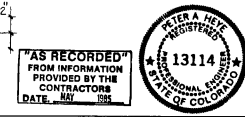
PIT FLOOR PLAN
SCALE 3/8"=1'-0" FF EL 449288

GROUND FLOOR PLAN
SCALE 3/8"=1'-0" FF EL 451600

GRAND JUNCTION / MESA COUNTY,
COLORADO
**PERIGO WASH
WASTEWATER TREATMENT
PLANT**

SECTION V PROCESS
**RAW SEWAGE
PUMP STATION
FLOOR PLANS**

HINNINGSON, DURHAM & RICHARDSON, INC.
ENGINEERS PLANNERS CONSULTANTS
DENVER COLORADO GRAND JUNCTION COLORADO



NOTE ODOOR SCRUBBER, OUTWORK, CHEMICAL FEED EQUIPMENT AND UTILITY PIPING FOR ODOOR CONTROL SYSTEM INCLUDED IN CONSTRUCTION SCHEDULE 'C'. SEE SPECIFICATIONS.

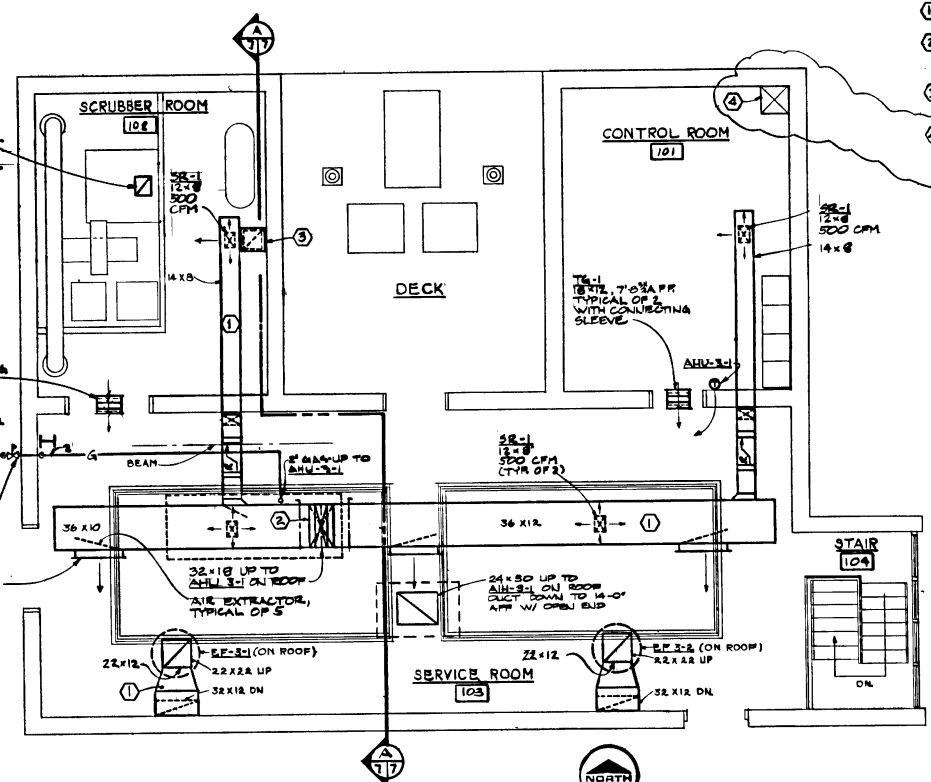
NO.	DATE	DESCRIPTION	REVISIONS	APPROVED
1	1/17/24	As per plan		

DATE: MAY 2024
JOB NO: 734510
DRAWN: J.E. BLISS
CHECKED: P.A. HEVE
APPROVED: P.A. HEVE
DATE: MAY 2024

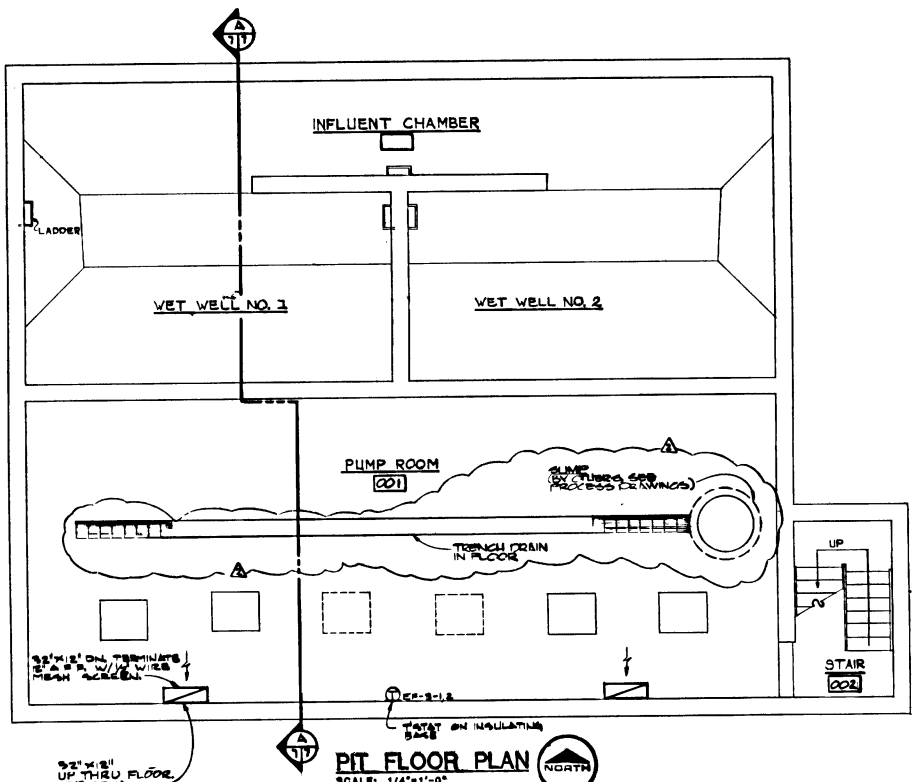
CONNECT TO SCISSOR (APPROX. 4'-6" ABOVE FINISH FLOOR) SIZE 18" x 18" CLASS 1 EXTENDED TELL TOP TO COUPLER TO APPROX. 9' ABOVE FLOOR MAKE WATER TIGHT SEE DETAIL ON DWG. VI-10 CONSTRUCTION SCHEDULE "C"

SEE 18" x 18" 7'-0" A.P.F. TYP. WITH CONNECTING SLEEVE.
SEE PROCESS FOR CONTINUATION.
GAS SERVICE SHALL BE BY CITY UTILITIES CONTRACTOR. SHUTOFF VALVE UNDER BUILDING CONTRACT.

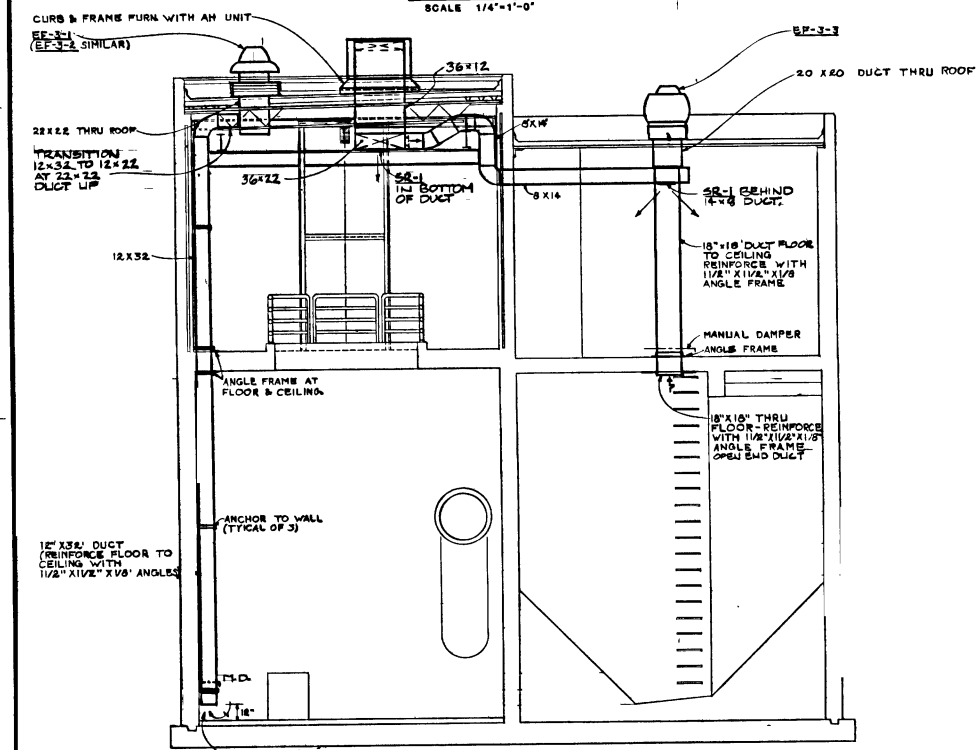
NOTES:
 ① ALL ELECTWORK ON THIS DWG. TO BE OF ALUMINUM UNLESS NOTED OTHERWISE.
 ② TRANSITION 36" x 18" TO 36" x 22" IN VERTICAL AND SPLIT TO 36" x 10" AND 36" x 12" FOR HORIZONTAL BRANCHES.
 ③ STUD 18" x 18" INTO BOTTOM OF 20" x 20" CONTINUE 18" x 18" DOWN THRU FLOOR.
 ④ SEE PROCESS DRAWINGS



GROUND FLOOR PLAN
SCALE: 1/4"=1'-0"



PIT FLOOR PLAN
SCALE: 1/4"=1'-0"



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

EQUIPMENT SPECIFICATIONS

4000 CFM MAKE-UP AIR UNIT (AMU-3-1):
 DIRECT FIRED GAS MAKE-UP UNIT WITH PAN/HURRICANE SECTION, FILTER SECTION, SHUTOFF DAMPER, RAIN HOOD WITH BIRD SCREEN AND PREPARED ROOF CURB. PAN DIRECTIVE TO BE HORIZONTAL.
 5500 CFM @ 4800 FT. ELEV., AND 1 1/2" x 8" S.P., 3 HP MOTOR, 460/3/60
 HEATING CAPACITY = 584 MM Btu LEVEL INPUT, 374 MM OUTPUT @ 4800 FT. ELEV., 7M GAS TRAIN
 CAMBRIDGE SERIES K150
EXHAUST FAN (EF-3-1 AND EF-3-2):
 CENTRIFUGAL ROOF EXHAUSTER WITH ADJUSTABLE V-BELT DRIVE, BACKDRAFT DAMPER, 12" HIGH FACTORY ROOF CURB AND BIRD SCREEN
 2750/5500 CFM @ 1 1/2" x 8" S.P. AND 4800 FT. ELEV., 2 HP MOTOR, 2 SPEED, 460/3/60, 840 RPM AND 5500 RPM TIP SPEED
FAN FANEX 1B 24
EXHAUST FAN (EF-3-3):
 ADJUSTABLE V-BELT DRIVEN CENTRIFUGAL FINE EXHAUSTER WITH BACKDRAFT DAMPER, 12" HIGH, ROOF CURB AND BIRD SCREEN
 2000 CFM @ 1 1/2" x 8" S.P. AND 4800 FT. ELEV., 1/2 HP MOTOR, 460/3/60 725 RPM AND 3800 RPM TIP SPEED
FAN FANEX MODEL 1B
AIR INTAKE HOOD (AIH-3-1):
 5500 CFM INTAKE @ 0.125" S.P. DROP, 5.50 FT. NET THROAT AREA, HOOD INTAKE AT 150 FPM MAX AIR VELOCITY. FURNISH WITH 24" HIGH FACTORY CURB AND METAL HOSE FILTERS. MOTORIZED OPPOSED BLADE DAMPER
FAN AIRKETTE W/ PED-3 DAMPER

REGISTER SCHEDULE

PLAN CODE	DESCRIPTION	MFR	MODEL	FINISH	REMARKS
SR-1	SUPPLY REGISTER	TITUS	272-PS-E	ALUMINUM	① ②
TR-1	TRANSFER GRILLE	TITUS	3-FS	ALUMINUM	

① FURNISHED W/ OPPOSED BLADE DAMPER.
 ② SIZE AND THROW AS SHOWN ON DRAWINGS.



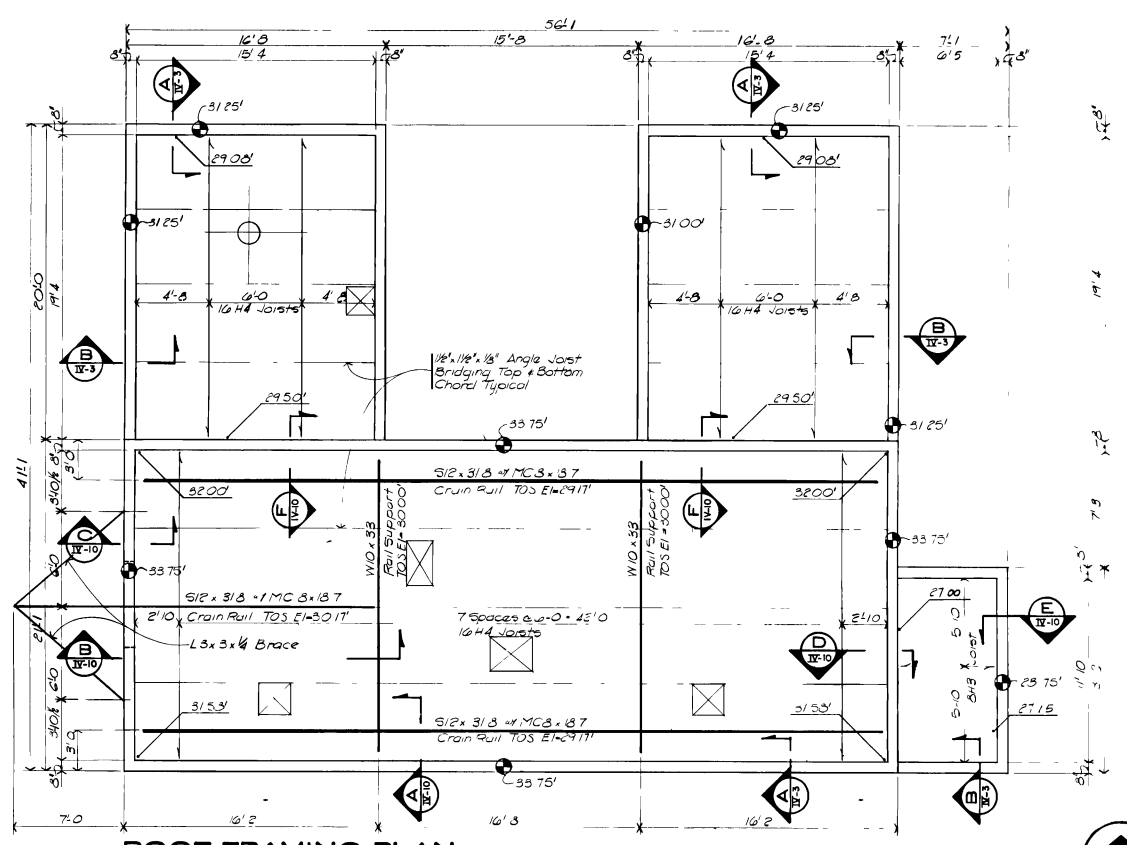
GRAND JUNCTION / MESA COUNTY, COLORADO
PERBIGO WASH WASTEWATER TREATMENT PLANT
 SECTION III MECHANICAL
RAW SEWAGE PUMP STATION
 GROUND & PIT FLOOR PLAN & SECTION

HINNINGSON, DURHAM & RICHARDSON, INC.
 ENGINEERS ARCHITECTS CONSULTANTS
 DENVER, COLORADO GRAND JUNCTION, COLORADO

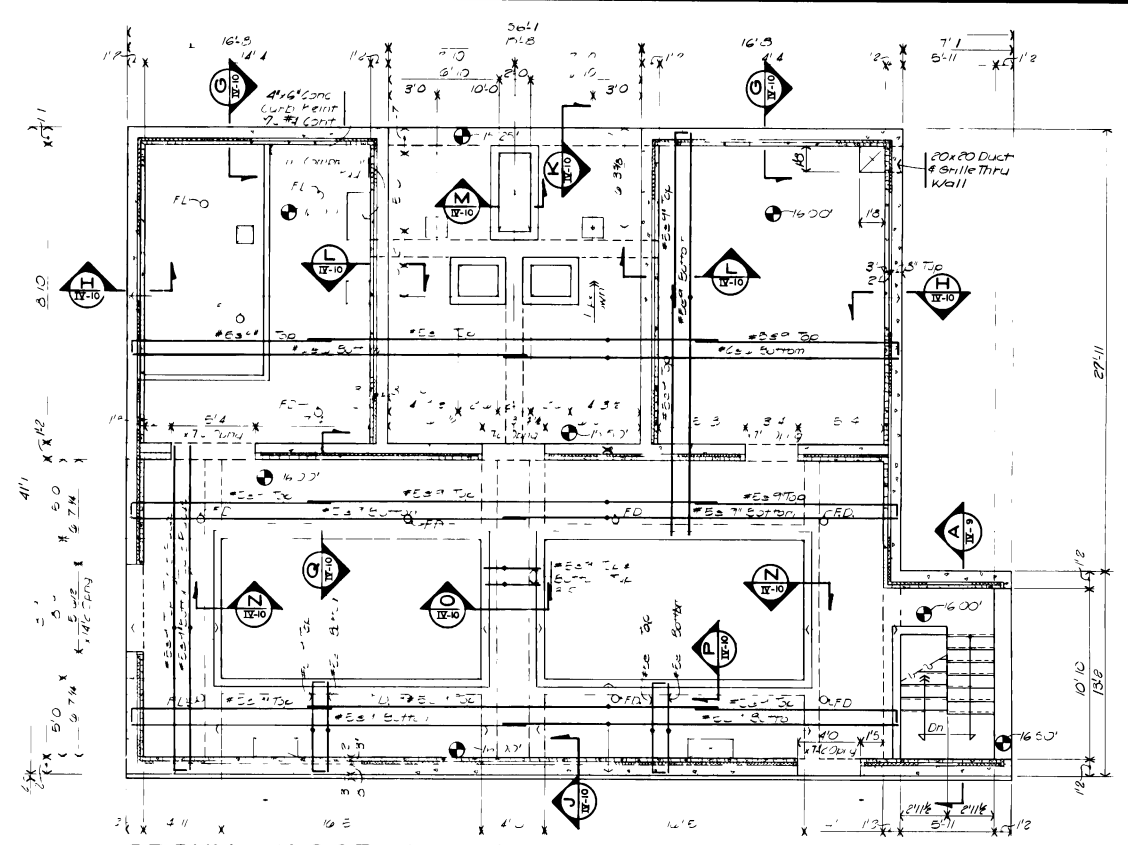
NO. 734510
 SHEET VI-7

AS RECORDED

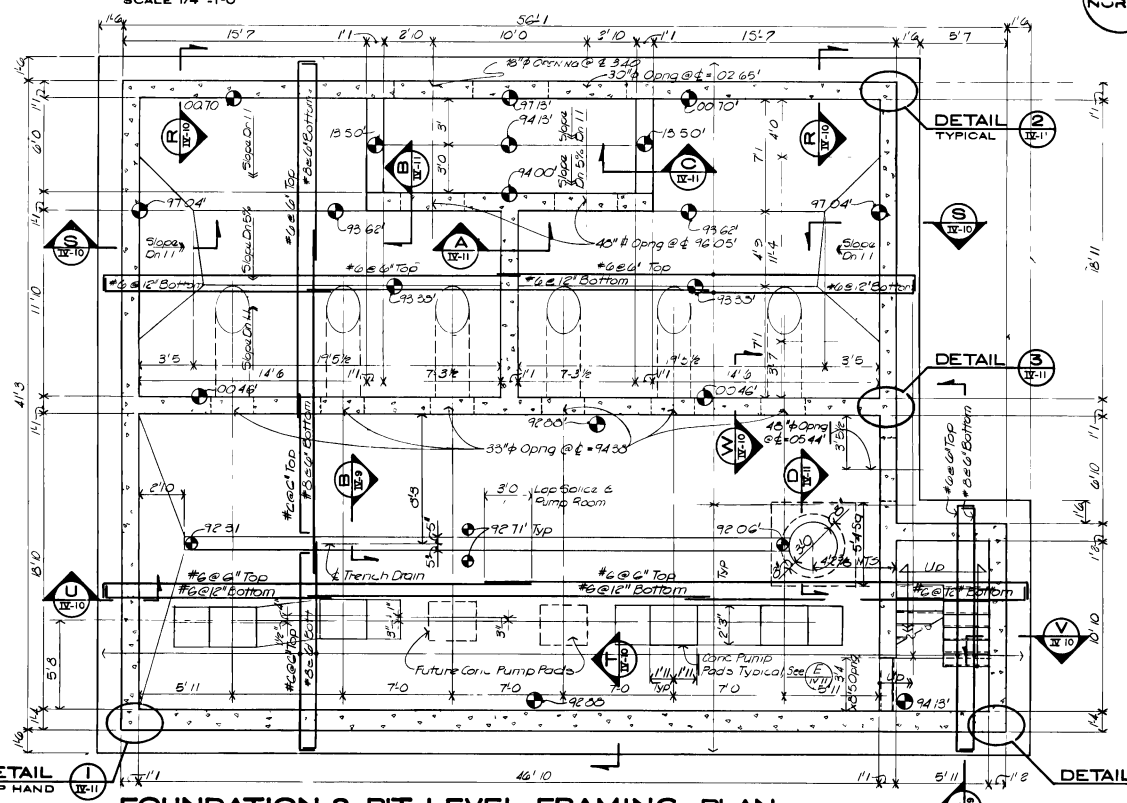
DATE	NO.	BY	REVISION
11/15/84	26	BULLT	
11/22/84	27	POS-BC REVISION	
11/28/84	28	MISC REVISIONS	



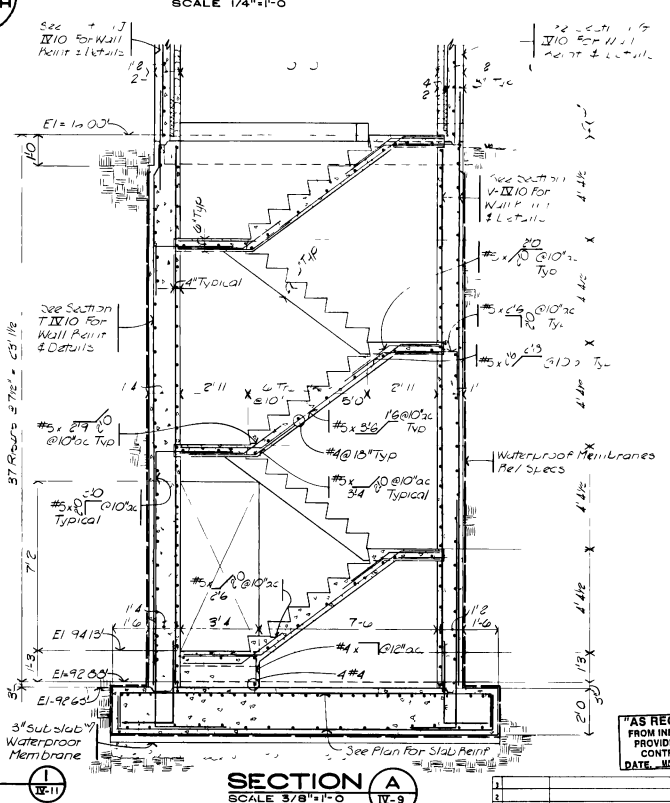
ROOF FRAMING PLAN
SCALE 1/4"=1'-0"



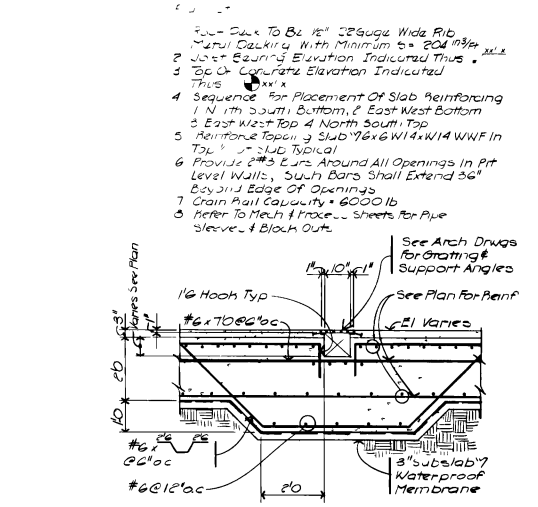
GROUND FLOOR FRAMING PLAN
SCALE 1/4"=1'-0"



FOUNDATION & PIT LEVEL FRAMING PLAN
SCALE 1/4"=1'-0"



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



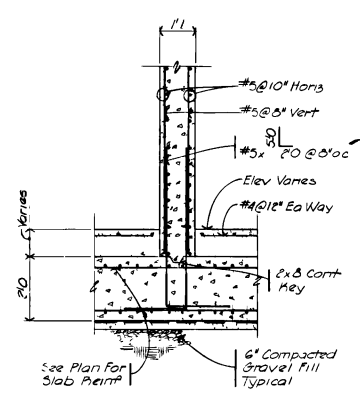
SECTION B
SCALE 1/2"=1'-0"

GRAND JUNCTION / MESA COUNTY, COLORADO
PERSIGO WASH WASTE WATER TREATMENT PLANT
SECTION IV STRUCTURAL
RAW SEWAGE PUMP STATION PLANS & SECTIONS
HENNINGSON DURHAM & RICHARDSON, INC.
ENGINEERS PLANNERS CONSULTANTS
DENVER COLORADO GRAND JUNCTION COLORADO
DESIGNED: S.E.B. CHECKED: J.H.A. APPROVED: J.H.A.
DATE: 7/3/10 DATE: 7/3/10 DATE: 7/3/10
DRAWN: G.C. SHEET IV-9
DATE: 7/3/10

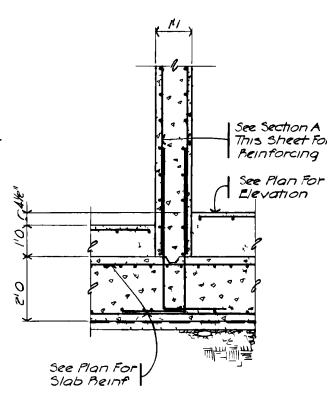
1. See To Be 1/2" 2" Gauge Wide Rib Metal Decking With Minimum 5/8" 20d #3 Rebar Elevation Indicated Thus
2. See To Be 1/2" 2" Gauge Wide Rib Metal Decking With Minimum 5/8" 20d #3 Rebar Elevation Indicated Thus
3. See To Be 1/2" 2" Gauge Wide Rib Metal Decking With Minimum 5/8" 20d #3 Rebar Elevation Indicated Thus
4. Sequence for Placement of Slab Reinforcing: 1. N. 17th South Bottom, 2. East West Bottom, 3. East West Top, 4. North South Top
5. Reinforce Top of Slab 7'6" x 11'4" x 11'4" WNF in Top of Slab Typical
6. Provide #3 Bars Around All Openings in Pit Level Walls, South Bars Shall Extend 36" Beyond Edge of Opening
7. Crain Pail Capacity: 6000 lb
8. Refer to Mech & Elec. Sheets for Pipe Sleeve & Block Out.

"AS RECORDED" FROM INFORMATION PROVIDED BY THE CONTRACTORS DATE: 7/3/10

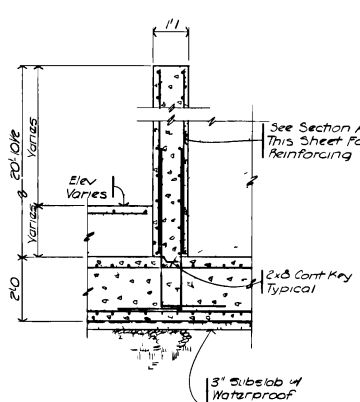
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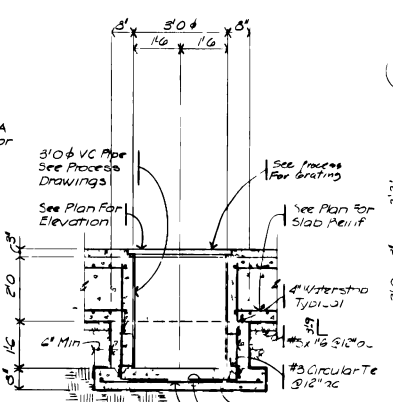
SECTION A
SCALE: 1/2" = 1'-0"
IX-11



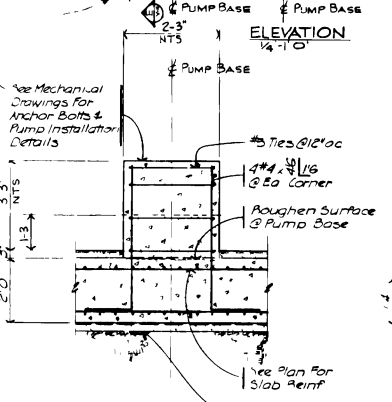
SECTION B
SCALE: 1/2" = 1'-0"
IX-11



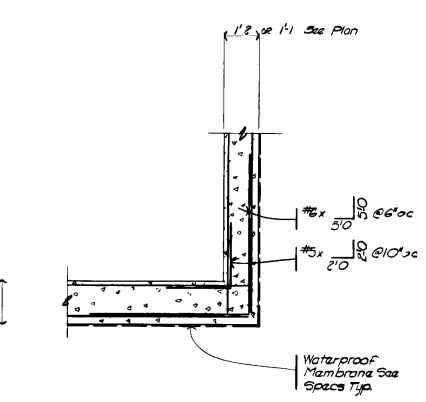
SECTION C
SCALE: 1/2" = 1'-0"
IX-11



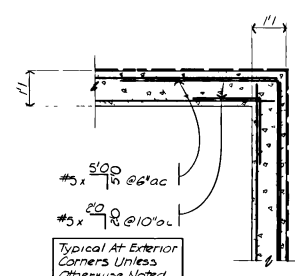
SECTION D
SCALE: 1/2" = 1'-0"
IX-11



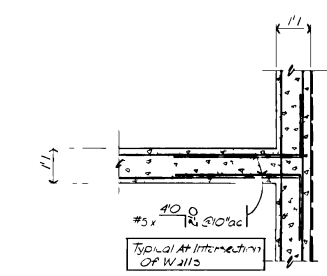
SECTION E
SCALE: 1/2" = 1'-0"
IX-11



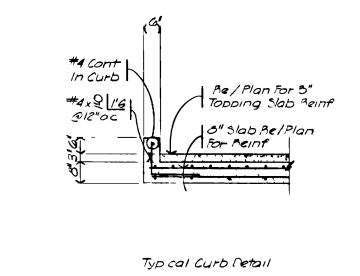
DETAIL I
SCALE: 1/2" = 1'-0"
IX-11



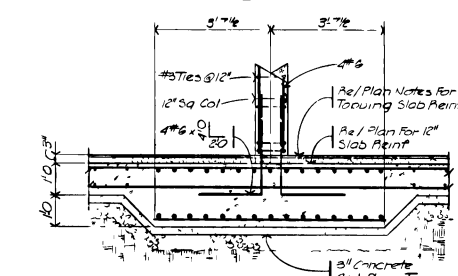
DETAIL 2
SCALE: 1/2" = 1'-0"
IX-11



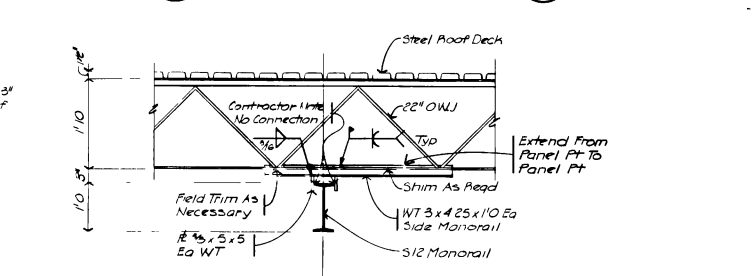
DETAIL 3
SCALE: 1/2" = 1'-0"
IX-11



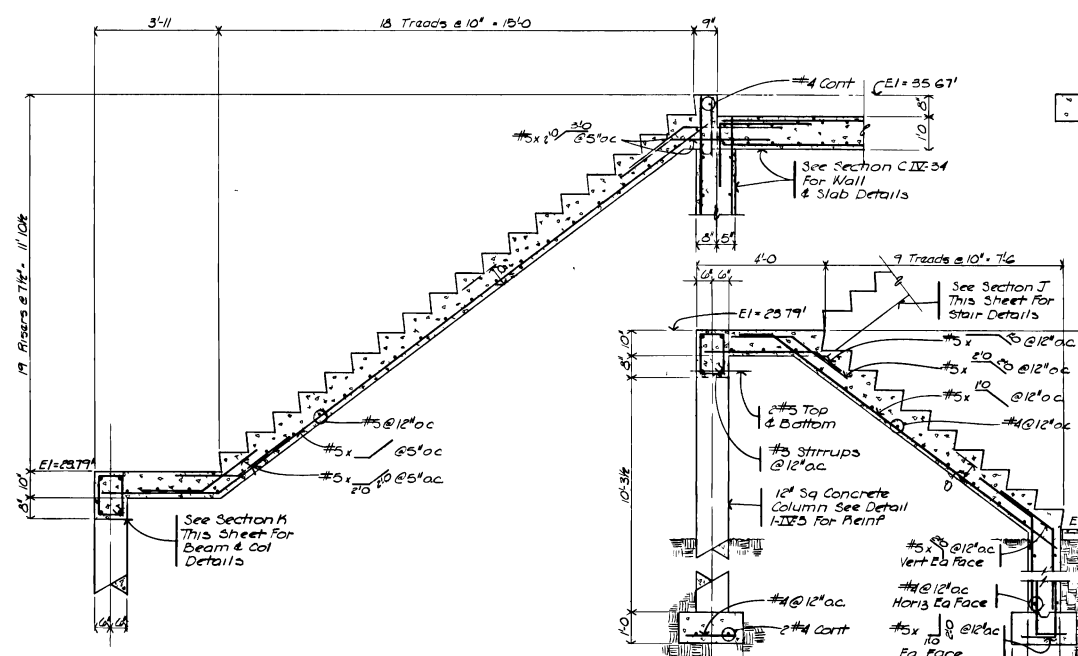
SECTION F
SCALE: 1/2" = 1'-0"
IX-11



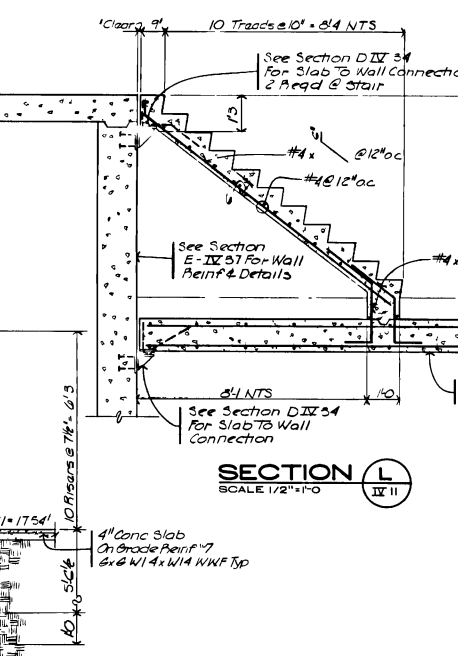
SECTION G
SCALE: 1/2" = 1'-0"
IX-11



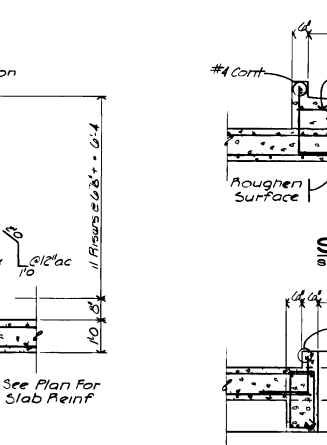
SECTION H
SCALE: 3/4" = 1'-0"
IX-11



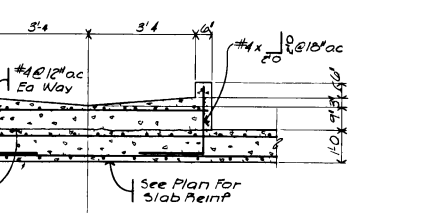
SECTION J
SCALE: 1/2" = 1'-0"
IX-11



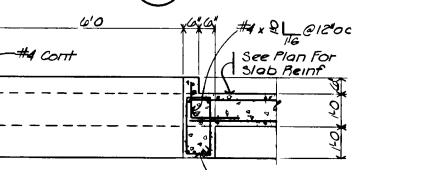
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SCALE: 1/2" = 1'-0"
IX-11



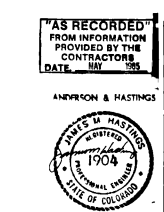
SECTION L
SCALE: 1/2" = 1'-0"
IX-11



SECTION N
SCALE: 1/2" = 1'-0"
IX-11

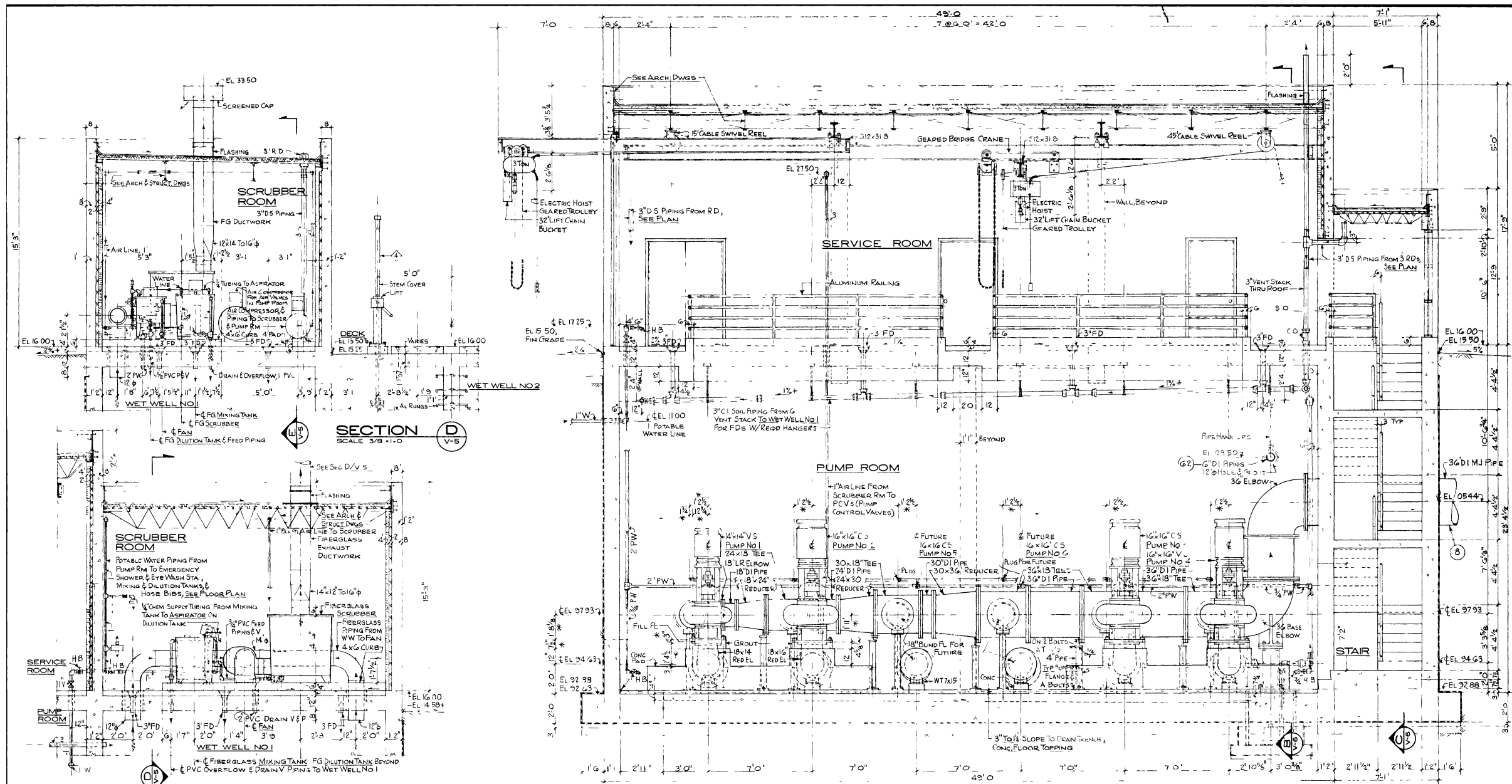


SECTION M
SCALE: 1/2" = 1'-0"
IX-11



GRAND JUNCTION / MESA COUNTY, COLORADO
PERRIGO WASH WASTE WATER TREATMENT PLANT
SECTION IV STRUCTURAL
RAW SEWAGE PUMP STATION
SECTIONS

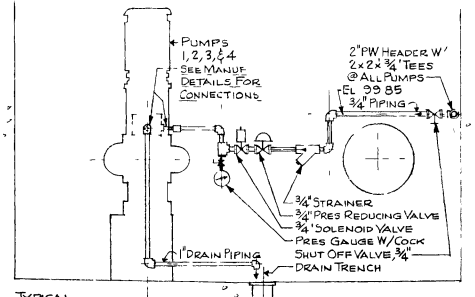
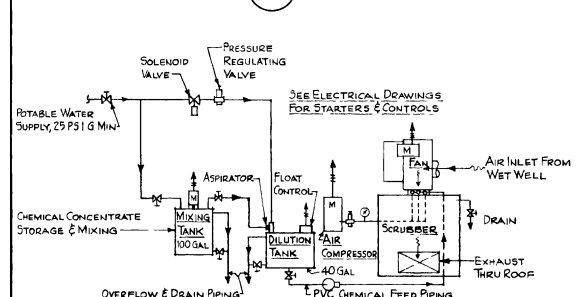
HINNINGSON, DURHAM & RICHARDSON, INC.
ENGINEERS PLANNERS CONSULTANTS
DENVER COLORADO GRAND JUNCTION COLORADO
JOB NO. 734510
DATE: 11/14/04
DRAWN: S.E.B. / S.B.T.
CHECKED: J.M.H.
APPROVED: S. CHANDRASEKHAR
SHEET: IV-11



SECTION D
SCALE 3/8" = 1'-0"
V-5

SECTION A
SCALE 3/8" = 1'-0"
V-5

SECTION E
SCALE 3/8" = 1'-0"
V-5



NOTE: ODOR SCRUBBER, DUCTWORK, CHEMICAL FEED EQUIPMENT AND UTILITY PIPING FOR ODOR CONTROL SYSTEM INCLUDED IN CONSTRUCTION SCHEDULE "C". SEE SPECIFICATIONS.

NO.	DATE	DESCRIPTION	BY	APPROV.
1	11/17/84	AS BUILT		

"AS RECORDED" FROM INFORMATION PROVIDED BY THE CONTRACTOR DATE: 10/1/85

GRAND JUNCTION / MESA COUNTY, COLORADO
PERSIGO WASH WASTE WATER TREATMENT PLANT

SECTION V PROCESS
RAW SEWAGE PUMP STATION

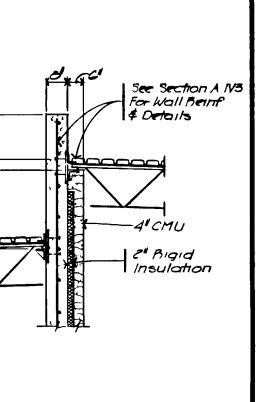
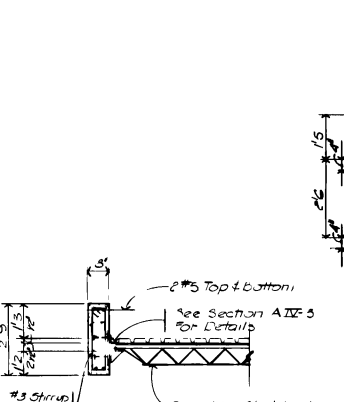
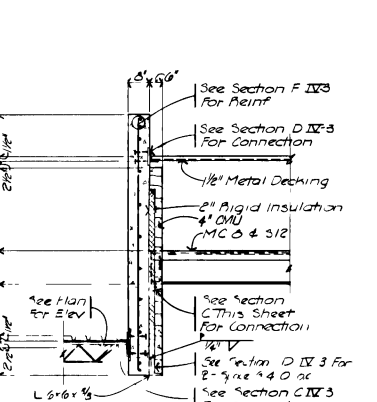
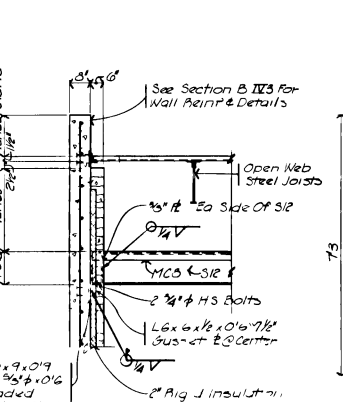
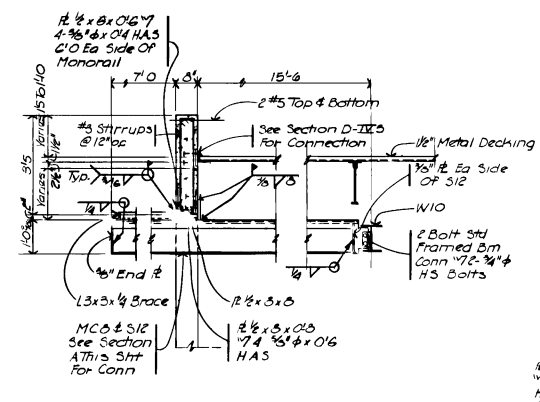
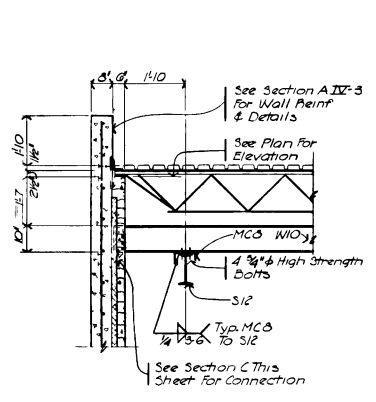
SECTIONS DETAILS

HENNINGSON, DURHAM & RICHARDSON, INC.
ENGINEERS PLANNERS CONSULTANTS
DENVER COLORADO GRAND JUNCTION COLORADO

DESIGNED: J. B. BEEB
DRAWN: J. B. BEEB
CHECKED: J. B. BEEB
DATE: NOV 1985

734510 SHEET V-5

07087900.tif



SECTION A
SCALE: 1/2" = 1'-0"
IX-10

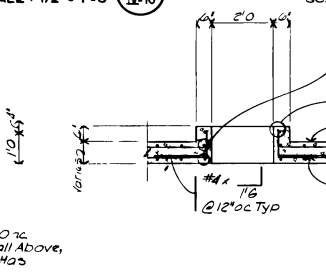
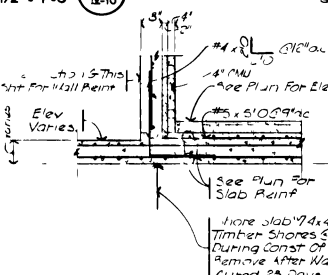
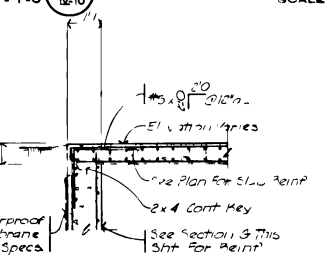
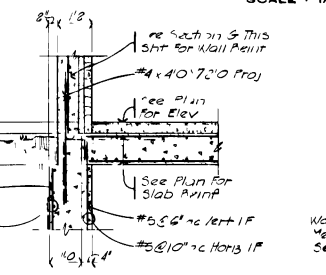
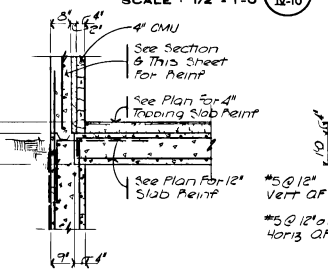
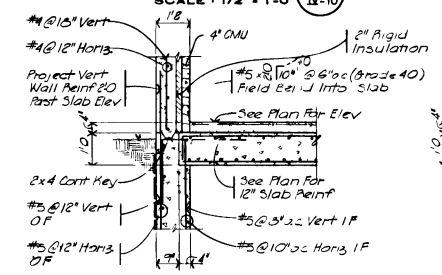
SECTION B
SCALE: 1/2" = 1'-0"
IX-10

SECTION C
SCALE: 1/2" = 1'-0"
IX-10

SECTION D
SCALE: 1/2" = 1'-0"
IX-10

SECTION E
SCALE: 1/2" = 1'-0"
IX-10

SECTION F
SCALE: 1/2" = 1'-0"
IX-10



Note: All Reinf Shown Typical Unless Otherwise Noted

SECTION G
SCALE: 1/2" = 1'-0"
IX-10

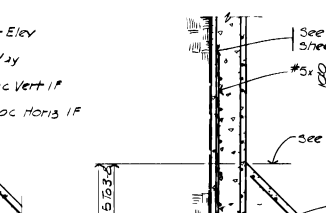
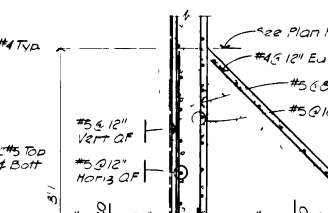
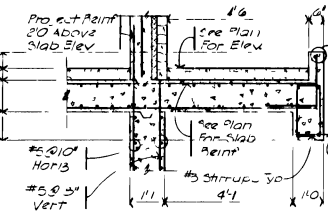
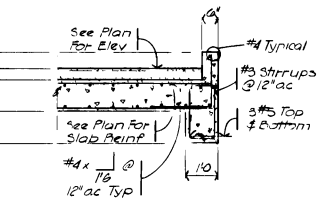
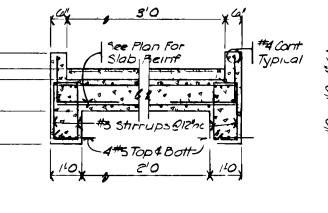
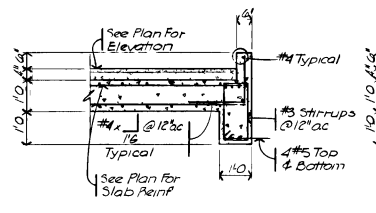
SECTION H
SCALE: 1/2" = 1'-0"
IX-10

SECTION J
SCALE: 1/2" = 1'-0"
IX-10

SECTION K
SCALE: 1/2" = 1'-0"
IX-10

SECTION L
SCALE: 1/2" = 1'-0"
IX-10

SECTION M
SCALE: 1/2" = 1'-0"
IX-10



SECTION N
SCALE: 1/2" = 1'-0"
IX-10

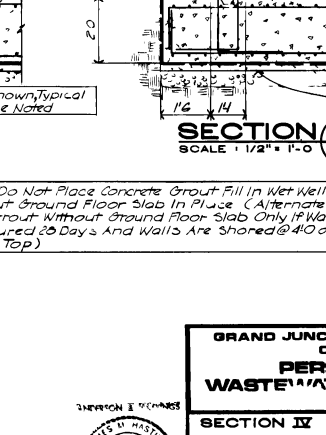
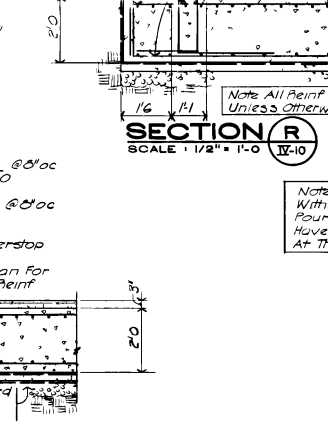
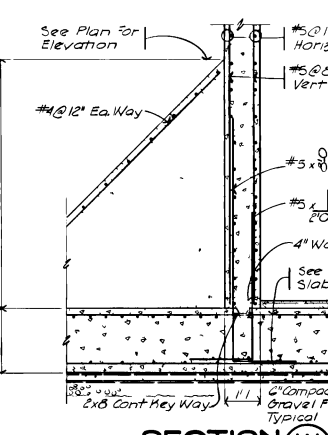
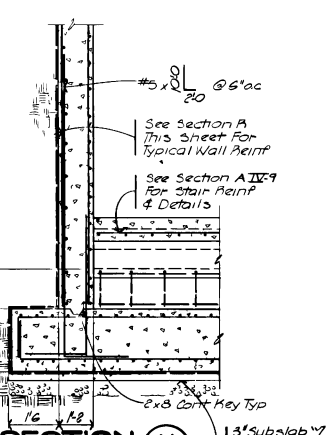
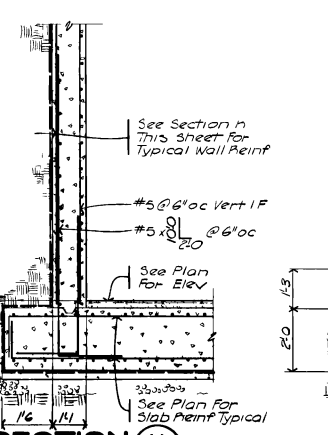
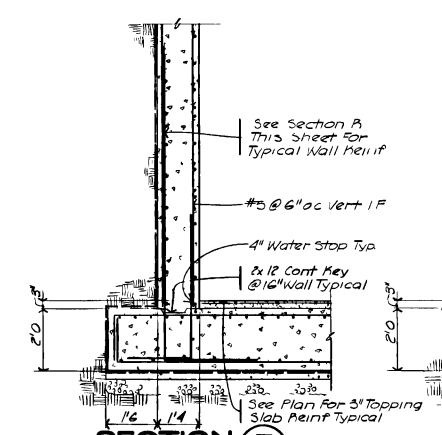
SECTION O
SCALE: 1/2" = 1'-0"
IX-10

SECTION P
SCALE: 1/2" = 1'-0"
IX-10

SECTION Q
SCALE: 1/2" = 1'-0"
IX-10

SECTION R
SCALE: 1/2" = 1'-0"
IX-10

SECTION S
SCALE: 1/2" = 1'-0"
IX-10



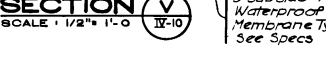
Note: Do Not Place Concrete Grout Fill in Wet Wells Without Ground Floor Slab In Place. (Alternate Can Pour Grout Without Ground Floor Slab Only If Walls Have Cured 28 Days And Walls Are Shored @ 40' ac At The Top)

SECTION T
SCALE: 1/2" = 1'-0"
IX-10

SECTION U
SCALE: 1/2" = 1'-0"
IX-10

SECTION V
SCALE: 1/2" = 1'-0"
IX-10

SECTION W
SCALE: 1/2" = 1'-0"
IX-10



SECTION T
SCALE: 1/2" = 1'-0"
IX-10

SECTION U
SCALE: 1/2" = 1'-0"
IX-10

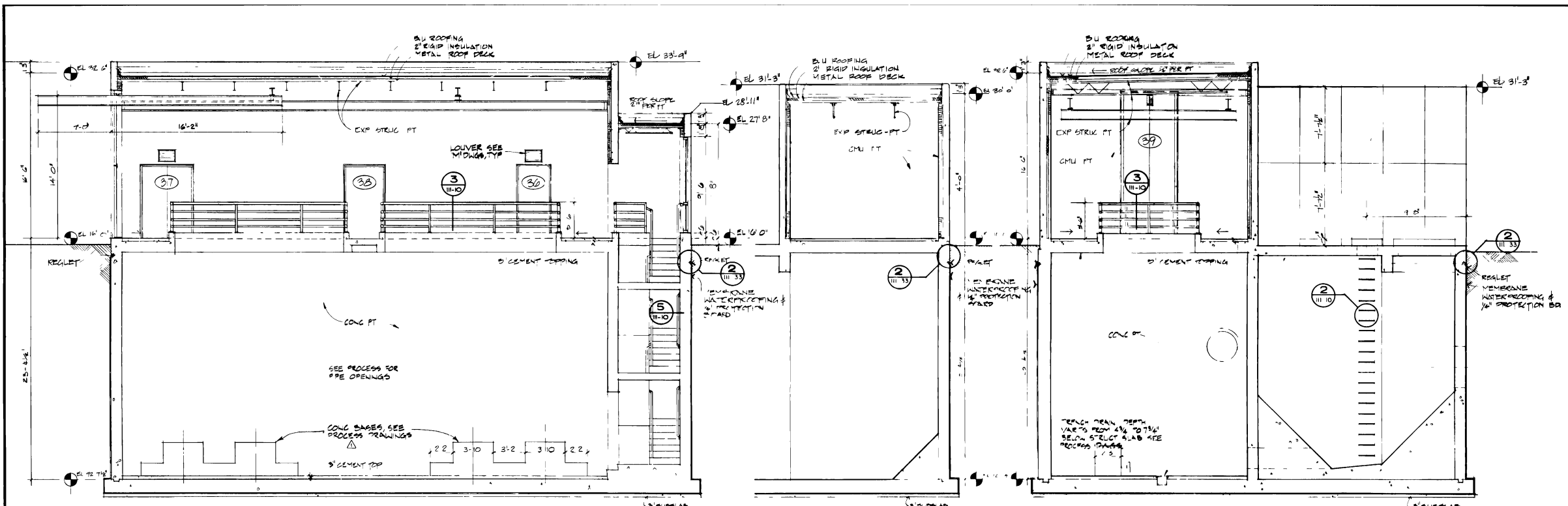
SECTION V
SCALE: 1/2" = 1'-0"
IX-10

SECTION W
SCALE: 1/2" = 1'-0"
IX-10

GRAND JUNCTION / MESA COUNTY, COLORADO
PERRIGO WASH WASTE WATER TREATMENT PLANT
 SECTION IX STRUCTURAL
RAW SEWAGE PUMP STATION
 SECTIONS
 HENNINGSON, DURHAM & RICHARDSON, INC.
 DENVER COLORADO BUSINESS PLANNERS CONSULTANTS GRAND JUNCTION COLORADO
 JOB SHEETED: SEA DRAWING: J.M.H. SHEET: IV-10
 APPROVED: C. HENNINGSON DATE: 7/1/04
 734510 DETAILED: SEA/D.H.T.

AS RECORDED FROM INFORMATION PROVIDED BY THE CONTRACTOR

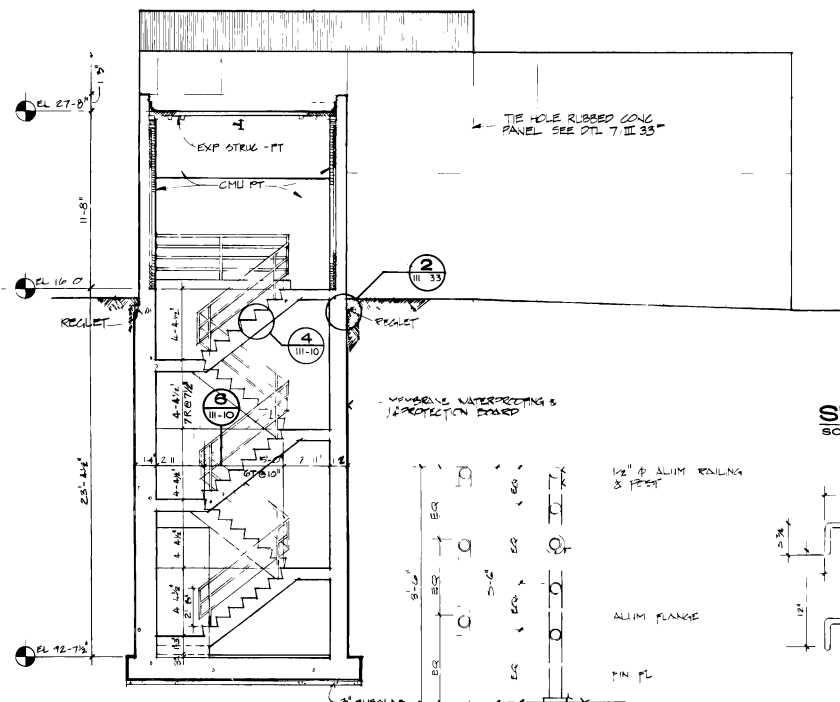
DATE	BY	DESCRIPTION	MADE	APPROVED
7/1/04	As Built			



SECTION A
SCALE 1/4" = 1'-0"

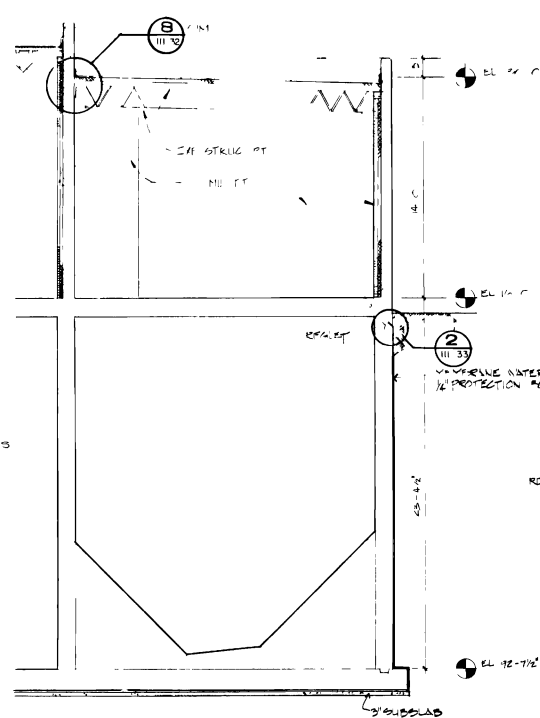
SECTION D
SCALE 1/4" = 1'-0"

SECTION B
SCALE 1/4" = 1'-0"

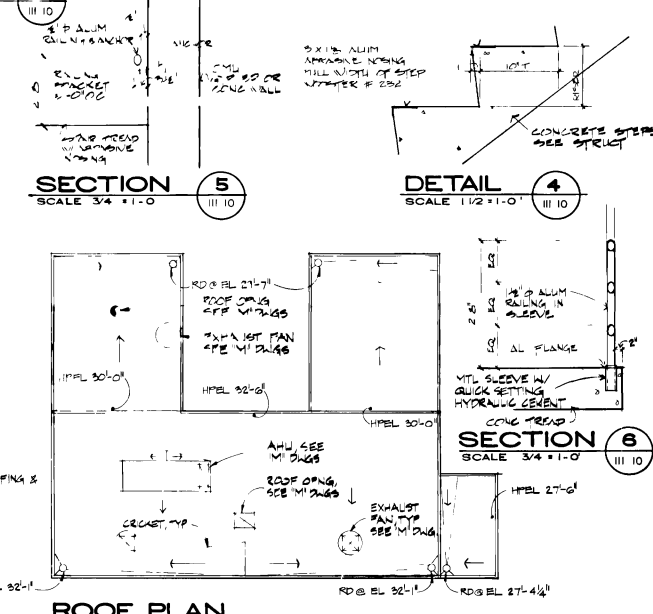


SECTION C
SCALE 1/4" = 1'-0"

SECTION 3
SCALE 1 1/2" = 1'-0"



SECTION E
SCALE 1/4" = 1'-0"



SECTION 5
SCALE 3/4" = 1'-0"

DETAIL 4
SCALE 1 1/2" = 1'-0"

ROOF PLAN
SCALE 1/8" = 1'-0"

SECTION 6
SCALE 3/4" = 1'-0"



AS RECORDED FROM INFORMATION PROVIDED BY THE CONTRACTORS DATE: 11/10/10

GRAND JUNCTION / MESA COUNTY, COLORADO
PERSIGO WASH WASTEWATER TREATMENT PLANT

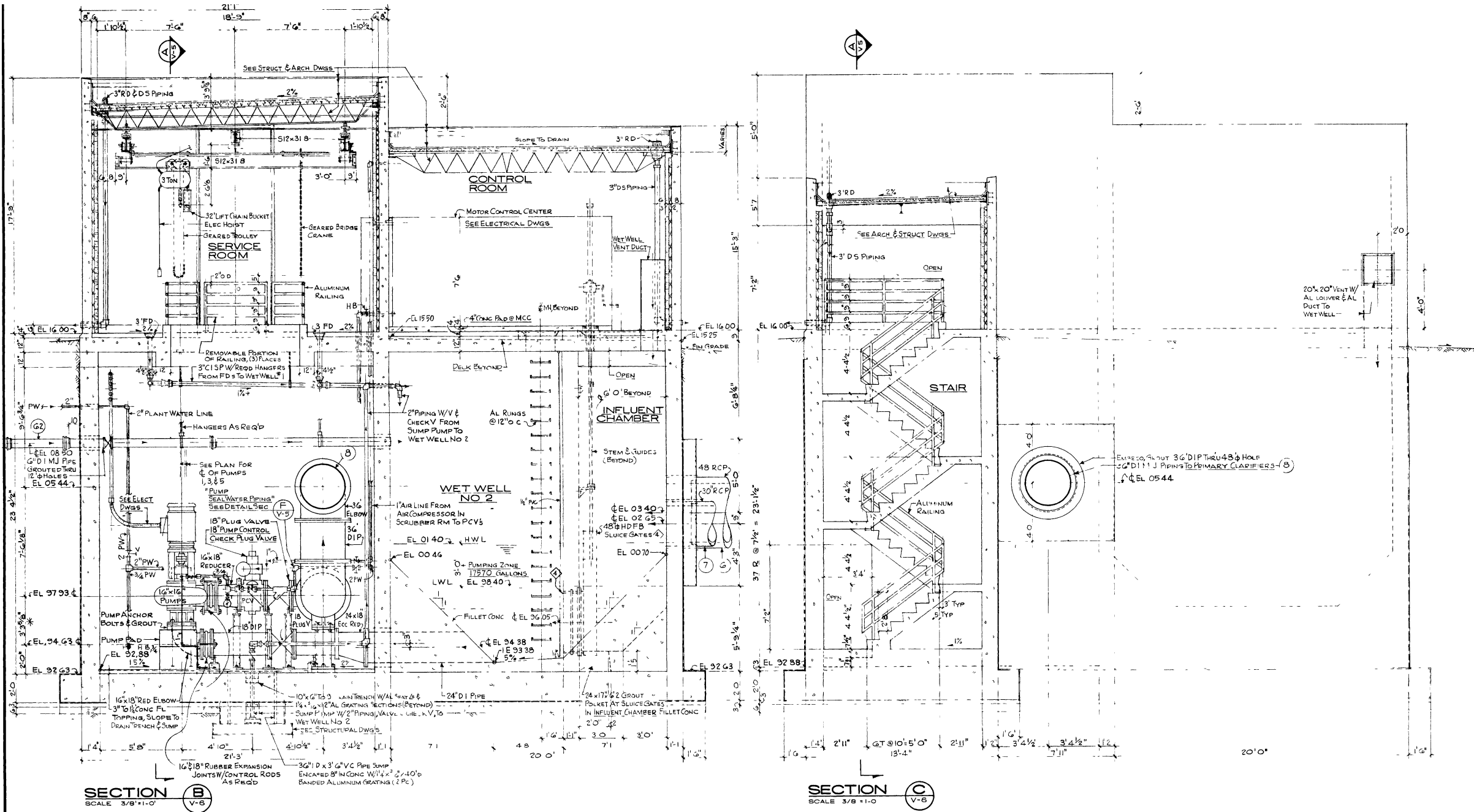
SECTION III ARCHITECTURAL
RAW SEWAGE PUMP STA.
SECTIONS, ROOF PLAN, DETAILS

HENNINGSON, DURHAM & RICHARDSON, INC.
ENGINEERS PLANNERS CONSULTANTS
DENVER COLORADO GRAND JUNCTION COLORADO

DESIGNED BY: K. WONG CHECKED BY: J. STUBBS
DRAWN BY: J. WONG APPROVED BY: J. WONG
DATE: 11/10/10 DATE: 11/10/10

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DWG 30 OF 101



07087901.tif

"AS RECORDED"
FROM INFORMATION
PROVIDED BY THE
CONTRACTOR
DATE: MAY 1995



GRAND JUNCTION / MESA COUNTY, COLORADO	
PERSIGO WASH WASTEWATER TREATMENT PLANT	
SECTION V	PROCESS
RAW SEWAGE PUMP STATION	
SECTIONS	
HERRINGSON, DURHAM & RICHARDSON, INC.	
ENGINEERS PLANNERS CONSULTANTS	GRAND JUNCTION COLORADO
DENVER COLORADO	GRAND JUNCTION COLORADO
JOB NO. 734510	DATE 05/95
DESIGNED BY: HLT	CHECKED BY: HLT
APPROVED BY: HLT	DATE: 05/95
RETAINED BY: HLT	DATE: 05/95
V - 6	

DWG 102 OF 191