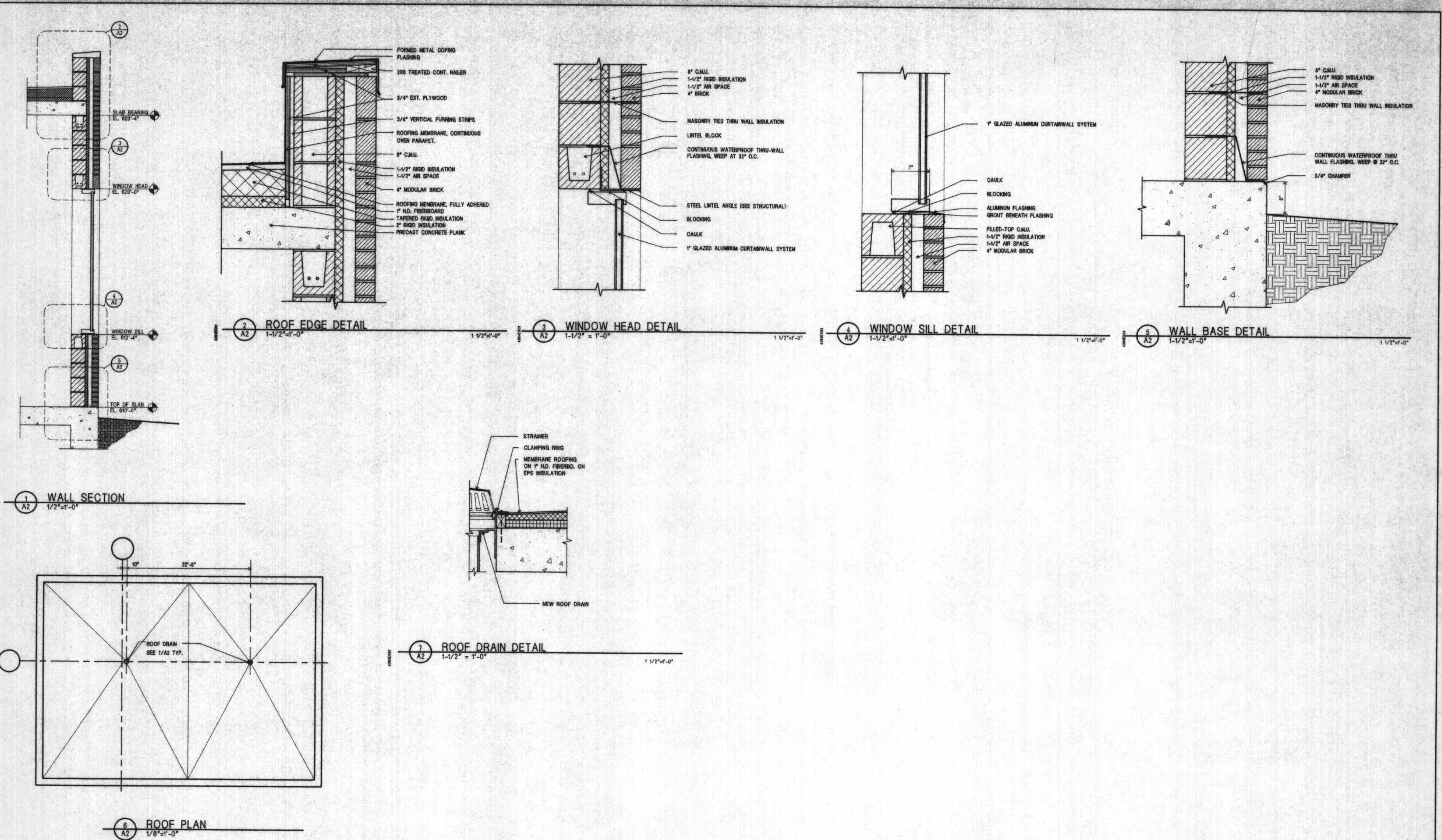
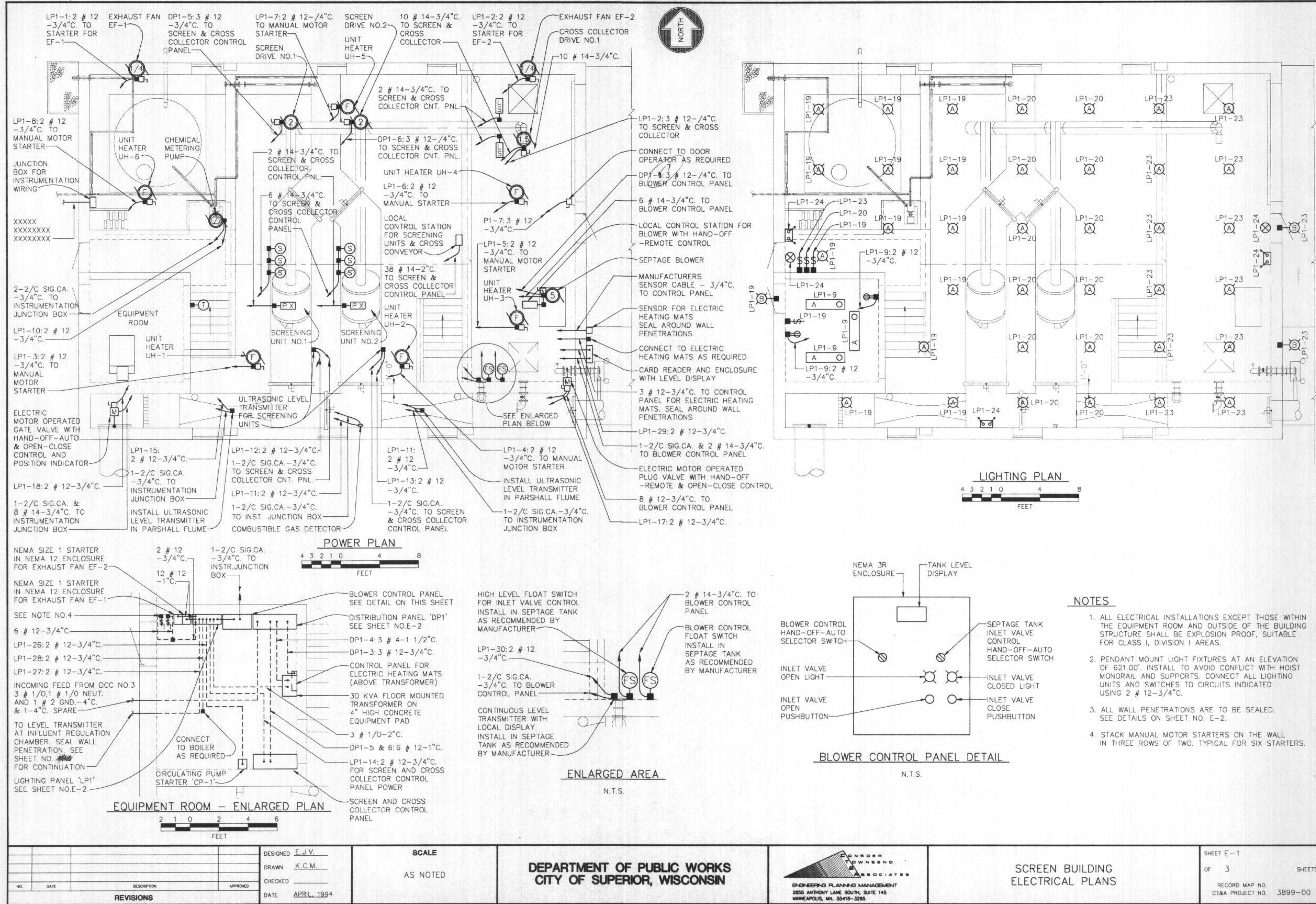


CLIENT:	PROJECT NAME: SCREEN BUILDING	DRAWING TITLE: PLANS AND ELEVATIONS	DRAWN BY: MAF	CHECKED BY:	LHB ENGINEERS & ARCHITECTS DULUTH • MINNEAPOLIS • SUPERIOR 1410 Tower Ave., Superior, Wisconsin 54880 TEL 715/392-2112 FAX 715/392-2650	LHB	DATE: 6/10/94 FILE: \CADPROJ\94064\A1 PROJECT NO: 94064 SCALE: AS NOTED DRAWING NO: A1
							AS NOTED
DATE	NO	REVISION					



CLIENT:	PROJECT NAME: SCREEN BUILDING	DRAWING TITLE: PLANS AND ELEVATIONS	DRAWN BY: MAF CHECKED BY:		LHB ENGINEERS & ARCHITECTS DULUTH • MINNEAPOLIS • SUPERIOR	DATE 6/10/94 FILE \CADPROJ\94064\A2 PROJECT NO. 94064 SCALE AS NOTED DRAWING NO: A2				
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AS NOTED										
DATE	NO	REVISION								



ELECTRICAL PLAN SHEET SYMBOLS	
SYMBOLS	DESCRIPTION
	BRACKET MOUNTED INCANDESCENT OR HIGH INTENSITY DISCHARGE FIXTURE
	DUPLEX GFI RECEPTACLE (NUMBER INDICATES MOUNTING HEIGHT, IF NO NUMBER IS SHOWN, SEE SPECIFICATIONS)
	SINGLE CONVENIENCE RECEPTACLE (NUMBER INDICATES MOUNTING HEIGHT, IF NO NUMBER IS SHOWN, SEE SPECIFICATIONS)
	DUPLEX CONVENIENCE RECEPTACLE (NUMBER INDICATES MOUNTING HEIGHT, IF NO NUMBER IS SHOWN, SEE SPECIFICATIONS)
	FLOOR MOUNTED DUPLEX CONVINIENCE RECEPTACLE
	TELEPHONE UTILITY SYSTEM OUTLET
	LIGHTING PANEL
	REMOTE TELEMETRY SYSTEM CABINET
	TELEPHONE UTILITY SYSTEM
	DISTRIBUTION PANEL
	CABINET OR PULL BOX
	UNFUSED SAFETY SWITCH, 3P-30A, 600V, IN NEMA 4 STAINLESS STEEL ENCLOSURE, UNLESS OTHERWISE NOTED.
	FUSED SAFETY SWITCH, 3P-30A, 600V, IN NEMA 4 STAINLESS STEEL ENCLOSURE, UNLESS OTHERWISE NOTED.
	HANDHOLE
	OUTLET OR JUNCTION BOX
	COMBINATION PROTECTIVE DEVICE AND MAGNETIC STARTER OR CONTROL PANEL WITH CONTROL TRANSFORMER AND (3) AUXILIARY CONTACTS.
	SINGLE UNIT PUSHBUTTON STATION
	2-UNIT PUSHBUTTON STATION
	3-UNIT PUSHBUTTON STATION
	ELECTRIC MOTOR - "NUMBER" INDICATES HORSEPOWER, "F" DENOTES FRACTIONAL HORSEPOWER.
	CONTROL STATION-SELECTOR SWITCH, SPEED CONTROL, RUN INDICATION, START/STOP, SPEED INDICATION
	FLOW SWITCH
	LIMIT SWITCH
	PNEUMATIC/ELECTRIC SWITCH
	PRESSURE SWITCH
	PROXIMITY SWITCH
	"HAND-OFF-AUTOMATIC" SELECTOR SWITCH
	TORQUE SWITCH
	VACUUM SWITCH
	POINT FLOAT SWITCH
	ELECTRO-PNEUMATIC VALVE
	SOLENOID VALVE
	ELECTRIC THERMOSTAT
	ELECTRIC DAMPER MOTOR
	TEMPERATURE ACTUATED DEVICE
SYMBOLS	DESCRIPTION
\$ +48	SINGLE POLE TOGGLE SWITCH (NUMBER INDICATES MOUNTING HEIGHT, IF NO NUMBER IS SHOWN, SEE SPECIFICATIONS)
\$ +48	2 - POLE TOGGLE SWITCH (NUMBER INDICATES MOUNTING HEIGHT, IF NO NUMBER IS SHOWN, SEE SPECIFICATIONS)
\$ +48	3 - POLE TOGGLE SWITCH (NUMBER INDICATES MOUNTING HEIGHT, IF NO NUMBER IS SHOWN, SEE SPECIFICATIONS)
\$ +48	4 - POLE TOGGLE SWITCH (NUMBER INDICATES MOUNTING HEIGHT, IF NO NUMBER IS SHOWN, SEE SPECIFICATIONS)
\$ 1	MANUAL MOTOR STARTER SWITCH W/OVERLOAD PROTECTION AND ENCLOSURE (NUMBER INDICATES MOUNTING HEIGHT, IF NO NUMBER IS SHOWN, SEE SPECIFICATIONS.)
	BATTERY POWERED EMERGENCY LIGHTING FIXTURE
	UNIT HEATER
	ALARM HORN
3-6F	ZONAL GROUNDING
HH	HANDHOLE
GFI	GROUND FAULT INTERRUPTION
C	CONDUIT
SIG. CA.	SIGNAL CABLE
F.O.	FIBER OPTIC
H	EMERGENCY SHOWER & EYEWASH WITH LIGHT AND ALARM
S	SMOKE DETECTOR (IONIZATION TYPE)
D	RATE OF RISE HEAT DETECTOR
M	MANUAL FIRE ALARM PULL STATION
H F	FIRE ALARM SYSTEM HORN
	EXPOSED CONDUIT
	UNDERGROUND DUCT AS NOTED
	CONDUIT CONCEALED IN CEILING OR WALL
	CONDUIT CONCEALED IN FLOOR SLAB OR UNDER FLOOR SLAB (CONDUITS 1-1/4" OR LARGER SHALL BE INSTALLED UNDER FLOOR SLAB). CONDUITS RUN UNDER FLOOR SLAB SHALL BE ENCASED IN CONCRETE.
	HOMERUN TO PANEL OR M.C.C. AS NOTED
E	EXISTING CONDUIT AND WIRE SHALL REMAIN
R	EXISTING CONDUIT, WIRE, BOXES, ETC., WHICH SHALL BE REMOVED.
A	EXISTING CONDUIT WHICH SHALL BE ABANDONED. DISCONNECT AND REMOVE EXISTING CONDUCTORS. CUT OFF CONDUIT FLUSH W/FINISHED SURFACE AND FILL W/GROUT.
E/R	EXISTING CONDUIT WHICH SHALL BE REUSED. REMOVE EXISTING CONDUCTORS AND INSTALL NEW CONDUCTORS AS INDICATED OR NOTED ON PLAN.
CONDUIT SYSTEM NOTES	
1. CONDUITS IMBEDDED IN STRUCTURAL CONCRETE (FLOOR SLABS, ETC.) SHALL BE SO LOCATED AS NOT TO UNDULY IMPAIR THE STRENGTH OF THE CONSTRUCTION AND SHALL BE SPACED NOT LESS THAN TWO TIMES THE CONDUIT O.D. BETWEEN ADJACENT CONDUITS EXCEPT WHERE CROSSING OR OTHERWISE APPROVED BY THE ENGINEER.	
2. ANY CONDUIT WITHOUT FURTHER DESIGNATION, INDICATES 2-#12 IN 3/4 INCH CONDUIT. GREATER NUMBER OF WIRES ARE INDICATED AS FOLLOWS: (3-WIRES) (4-WIRES) ETC. LONGER HATCHMARK INDICATES NEUTRAL CONDUCTOR.	
3. WIRING FOR LIGHTING, RECEPTACLES AND OTHER MISCELLANEOUS CIRCUITS SHALL CONFORM TO THE CIRCUITING INDICATED ON THE DRAWINGS WITH ARRANGEMENT AND ROUTING AS REQUIRED. THE WIRING SHALL BE SO ARRANGED THAT NO MORE THAN 6 CURRENT CARRYING CONDUCTORS SHALL BE INSTALLED PER CONDUIT AND CIRCUITS OF DIFFERENT PANELS SHALL BE INSTALLED IN SEPERATE RACEWAYS.	

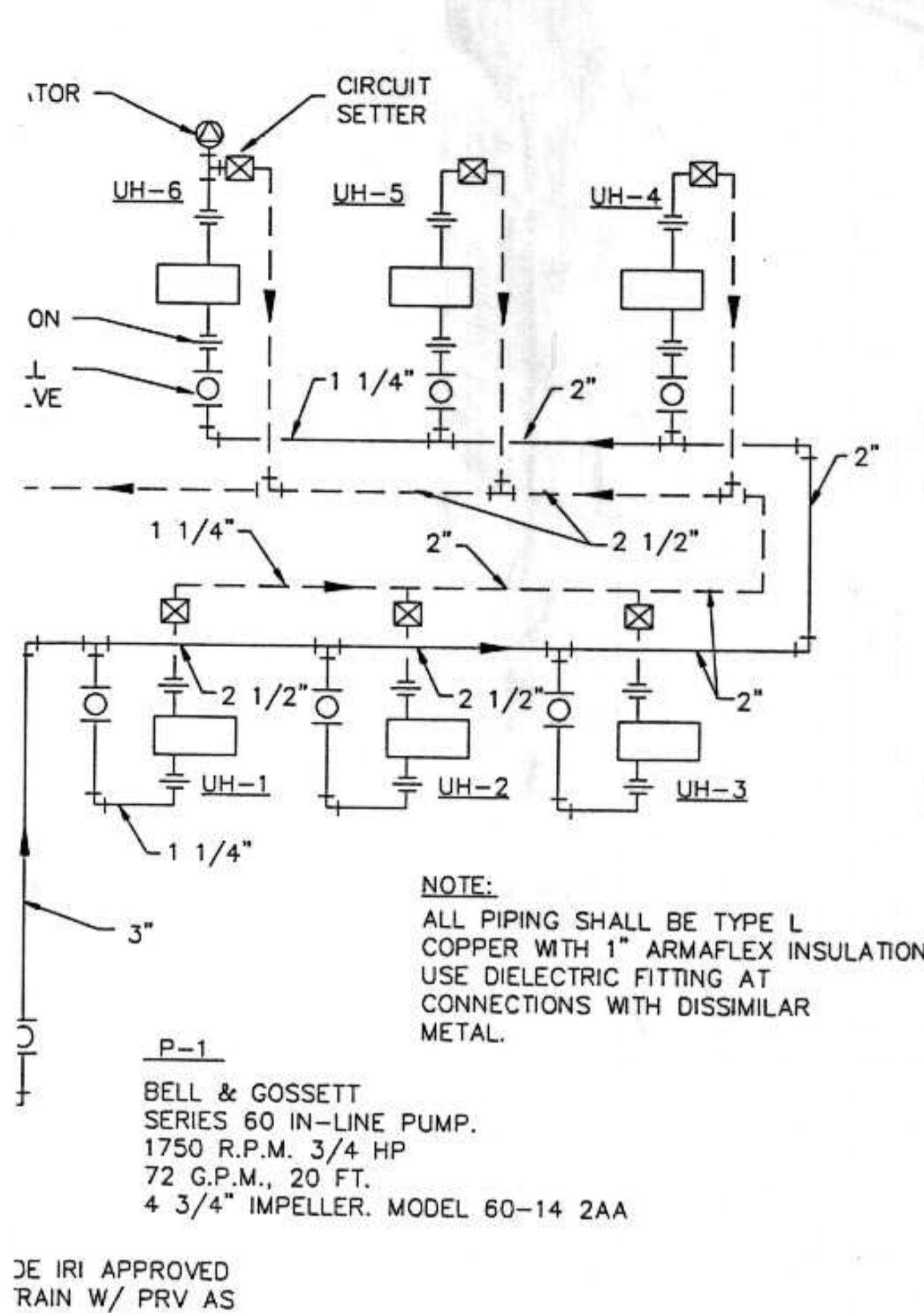
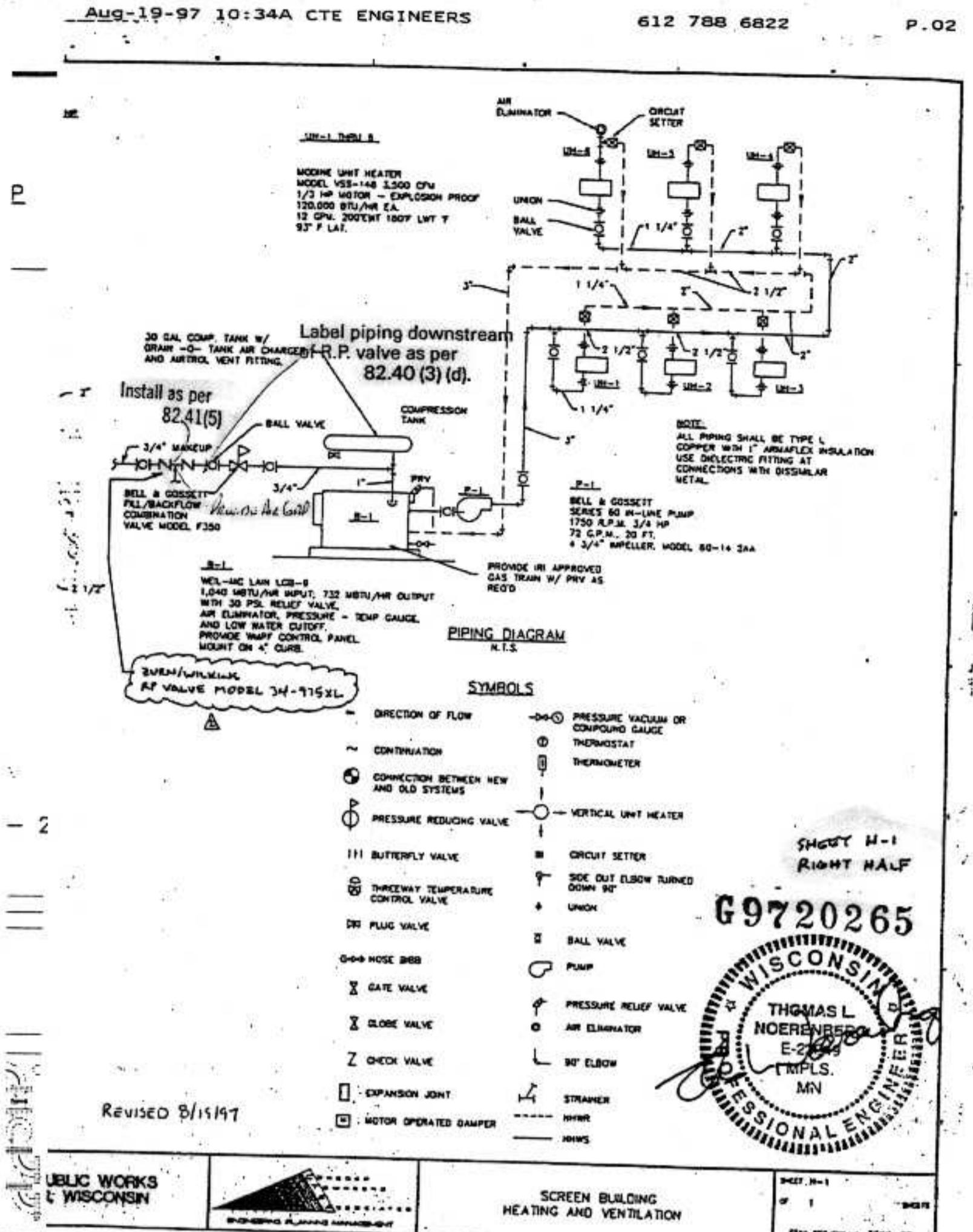
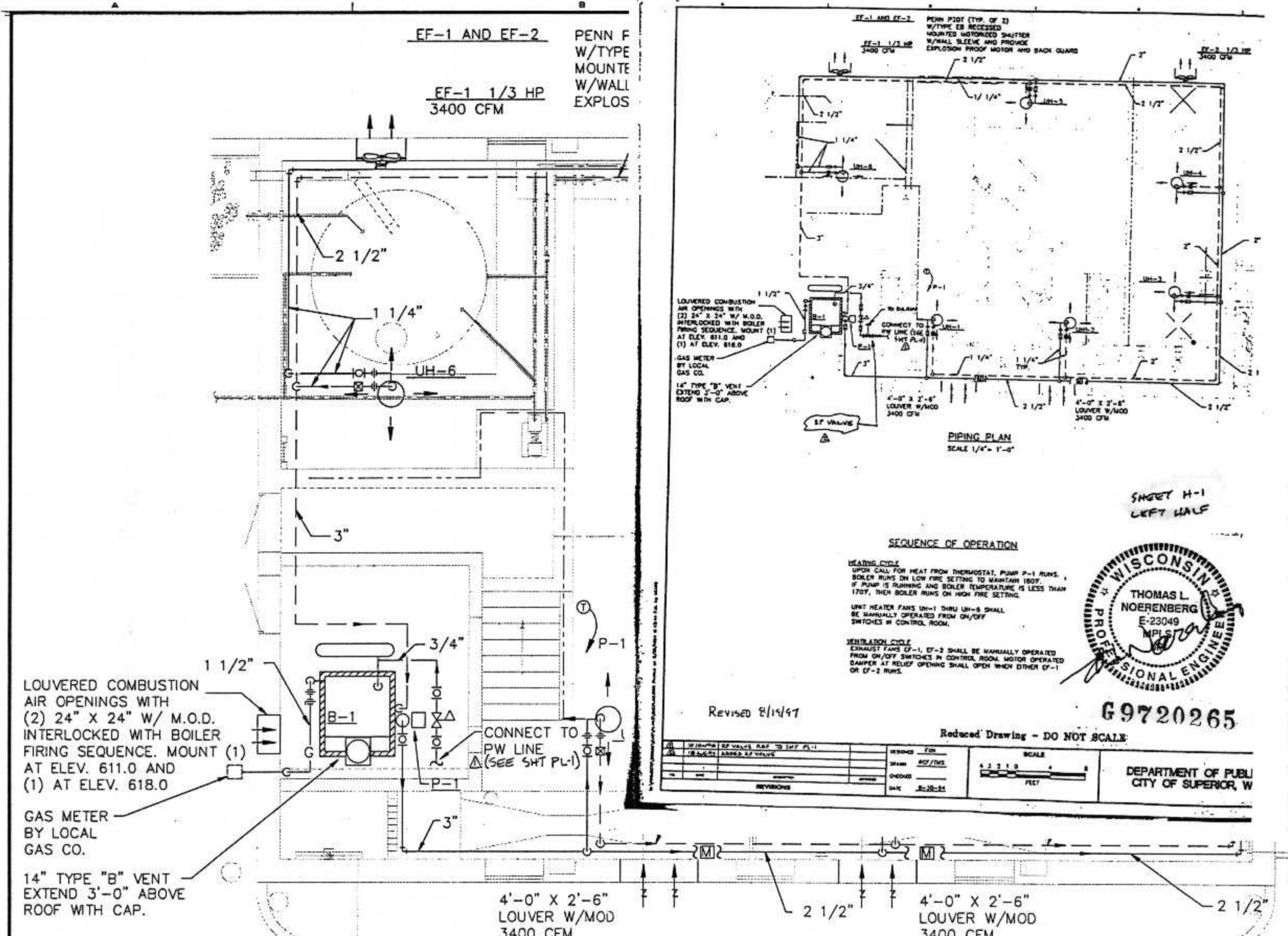
SCHEMATIC WIRING SYMBOLS	
SYMBOLS	DESCRIPTION
- -	CONTACT, NORMALLY OPEN
- -	CONTACT, NORMALLY CLOSED
-o-o-	PUSHBUTTON, NORMALLY CLOSED
-o-o-	PUSHBUTTON, NORMALLY OPEN
-o-o-	SELECTOR SWITCH - "HAND-OFF-AUTO", UNLESS OTHERWISE NOTED.
-o-o-	PUSHBUTTON, MAINTAINED CONTACT, DOUBLE CIRCUIT
OLS	OVERLOADS
	FUSE
	PILOT LIGHT
	MANUAL MOTOR STARTER
M	AUXILIARY STARTER CONTACTS
	PRESSURE SWITCH, OPENS ON RISE
	PRESSURE SWITCH, CLOSES ON RISE
	LIMIT SWITCH, NORMALLY CLOSED
	LIMIT SWITCH, NORMALLY OPEN
	LIMIT SWITCH, NORMALLY OPEN, HELD CLOSED
	LIMIT SWITCH, NORMALLY CLOSED, HELD OPEN
	TEMPERATURE ACTUATED SWITCH, OPENS ON RISE
	TEMPERATURE ACTUATED SWITCH, CLOSES ON RISE
	VACUUM SWITCH, OPENS ON RISE
	VACUUM SWITCH, CLOSES ON RISE
	FLOW SWITCH (CLOSES WITH FLOW)
	FLOW SWITCH (OPENS WITH FLOW)
	FLOAT OPERATED SWITCH, OPENS ON RISE
	FLOAT OPERATED SWITCH, CLOSES ON RISE
	TORQUE SWITCH (OPENS ON INCREASE)
	TORQUE SWITCH (CLOSES ON INCREASE)
	OVERLOAD
*	LOCATED REMOTE
●	LOCATED AT MOTOR
□	NEW DEVICE TO BE PROVIDED
	MOTORIZED TIME DELAY RELAY
CL	TIME DELAY RELAY
TD	STARTER COIL
R	CONTROL RELAY
TM	ELAPSED TIME METER

INSTRUMENTATION SYSTEM SYMBOLS	
PIT	PRESSURE TRANSMITTER WITH LOCAL INDICATION
LIT	LEVEL TRANSMITTER WITH LOCAL INDICATION
LAH	LEVEL ALARM HIGH
LAL	LEVEL ALARM LOW
TTT	TEMPERATURE TRANSMITTER WITH LOCAL INDICATION
AIT	ANALYZING TRANSMITTER WITH LOCAL INDICATION
FT	FLOW TRANSMITTER WITH LOCAL INDICATION
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
ITP	CURRENT-TO-PNEUMATIC TRANSDUCER
VCI	VOLTAGE-TO-CURRENT TRANSDUCER
ICV	CURRENT-TO-CURRENT TRANSDUCER
MBU	MANUAL BACKUP UNIT AS SPECIFIED
IND	EXISTING INDICATOR
HYD	HYDRAULIC VALVE ACTUATOR
HYD*	HYDRAULIC VALVE ACTUATOR WITH NEW POSITIONER
MAN	MANUALLY OPERATED VALVE
PNEU	PNEUMATIC VALVE ACTUATOR
PNEU*	PNEUMATIC VALVE ACTUATOR WITH NEW POSITIONER
M	ELECTRIC VALVE ACTUATOR, OPEN/CLOSE
MM	ELECTRIC VALVE ACTUATOR, MODULATING
FCC	FILTER CONTROL CONSOLE
FD	FLOW DEVICE
BV	BUTTERFLY VALVE
MBV	MODULATING BUTTERFLY VALVE
G	GATE VALVE
CV	CHECK VALVE
P	PUMP
↑	ANALOG INPUT TO RTU
↓	ANALOG OUT FROM RTU
↑	DISCRETE INPUT TO RTU UNLESS OTHERWISE NOTED
↓	DISCRETE OUTPUT FROM RTU UNLESS OTHERWISE NOTED
PULSE	PULSE INPUT TO RTU
	EQUIPMENT PER INSTRUMENTATION INSTALLATION DETAIL "A" (TYPICAL)

REVISIONS	DESIGNED <u>E.J.V.</u>	SCALE	DEPARTMENT OF PUBLIC WORKS CITY OF SUPERIOR, WISCONSIN	ELECTRICAL SYMBOLS	SHEET E-3 OF 3 SHEETS
NO. DATE	DRAWN <u>K.C.M.</u>	NO SCALE			
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REVISIONS	APPROVED				
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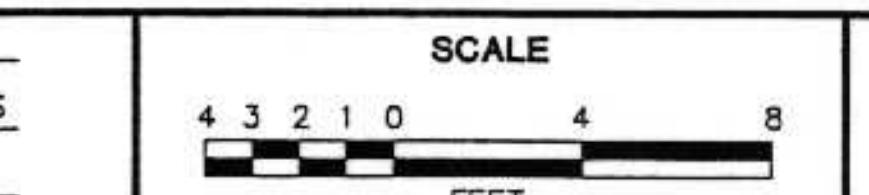
RECORD MAP NO.
CT&A PROJECT NO. 3899-00



THOMAS L.
NOERENBERG
E-23049
MPLS.
MN

G9720265

A	10 JAN 96	RP VALVE REF. TO SHT PL-1	
DESIGNED	FXN	SCALE	
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REVISIONS			

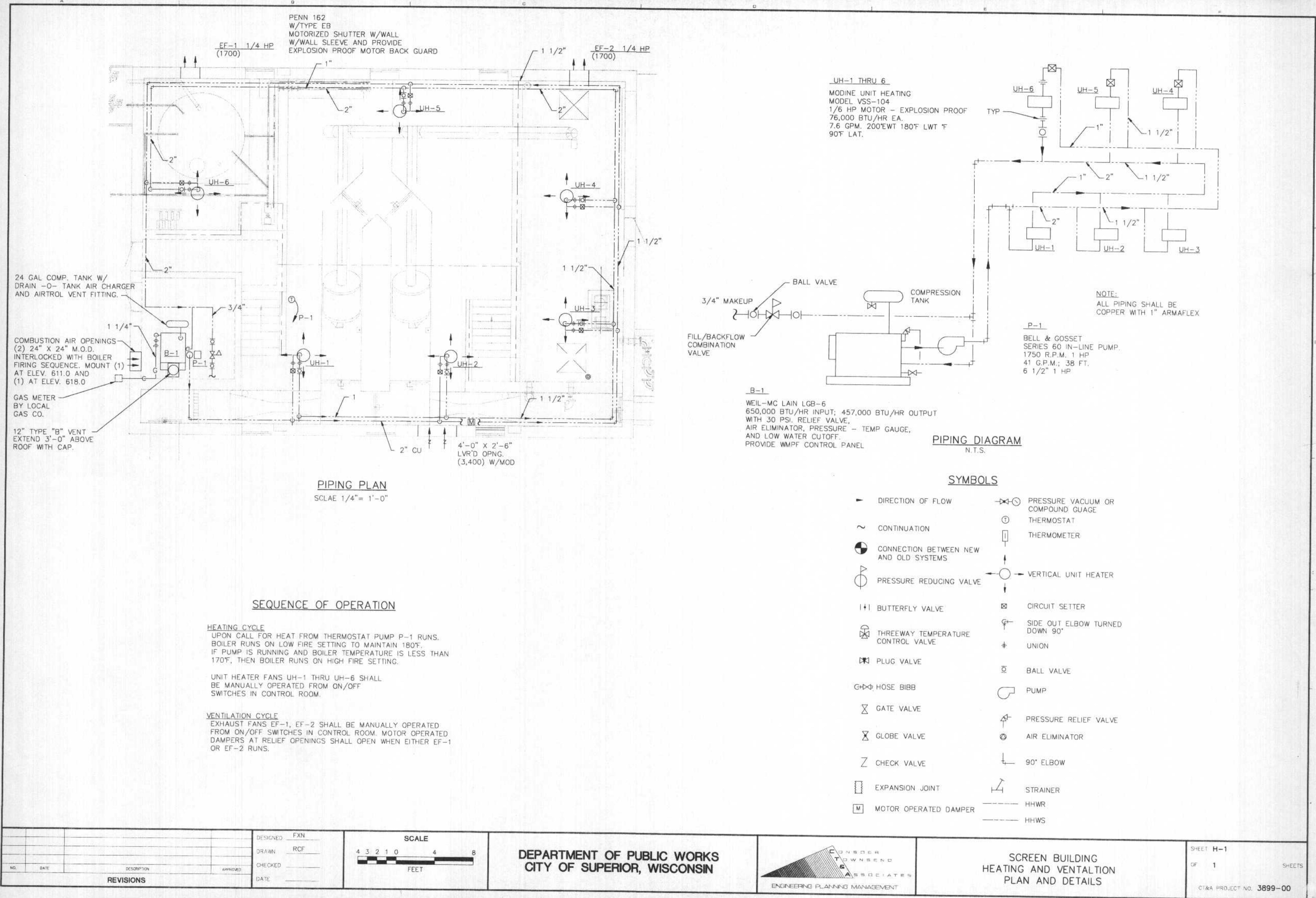


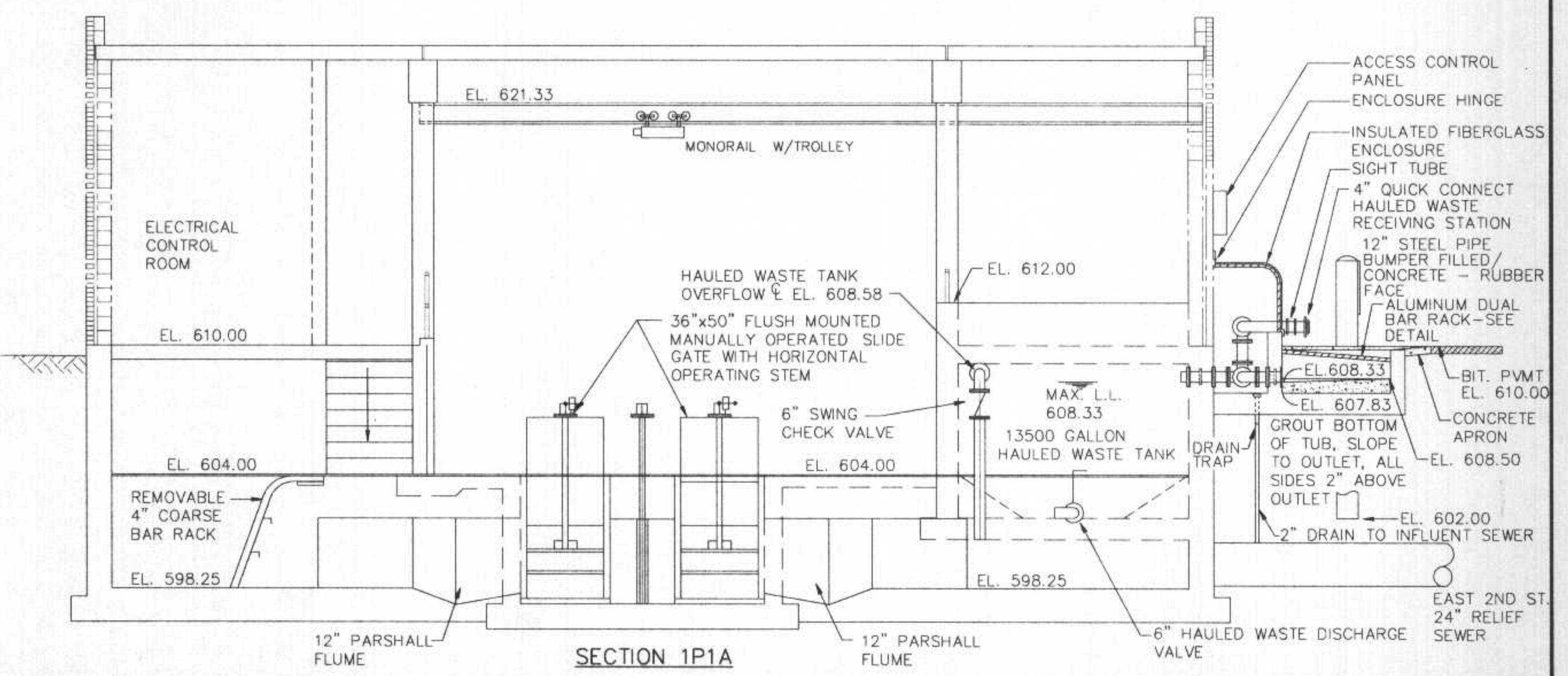
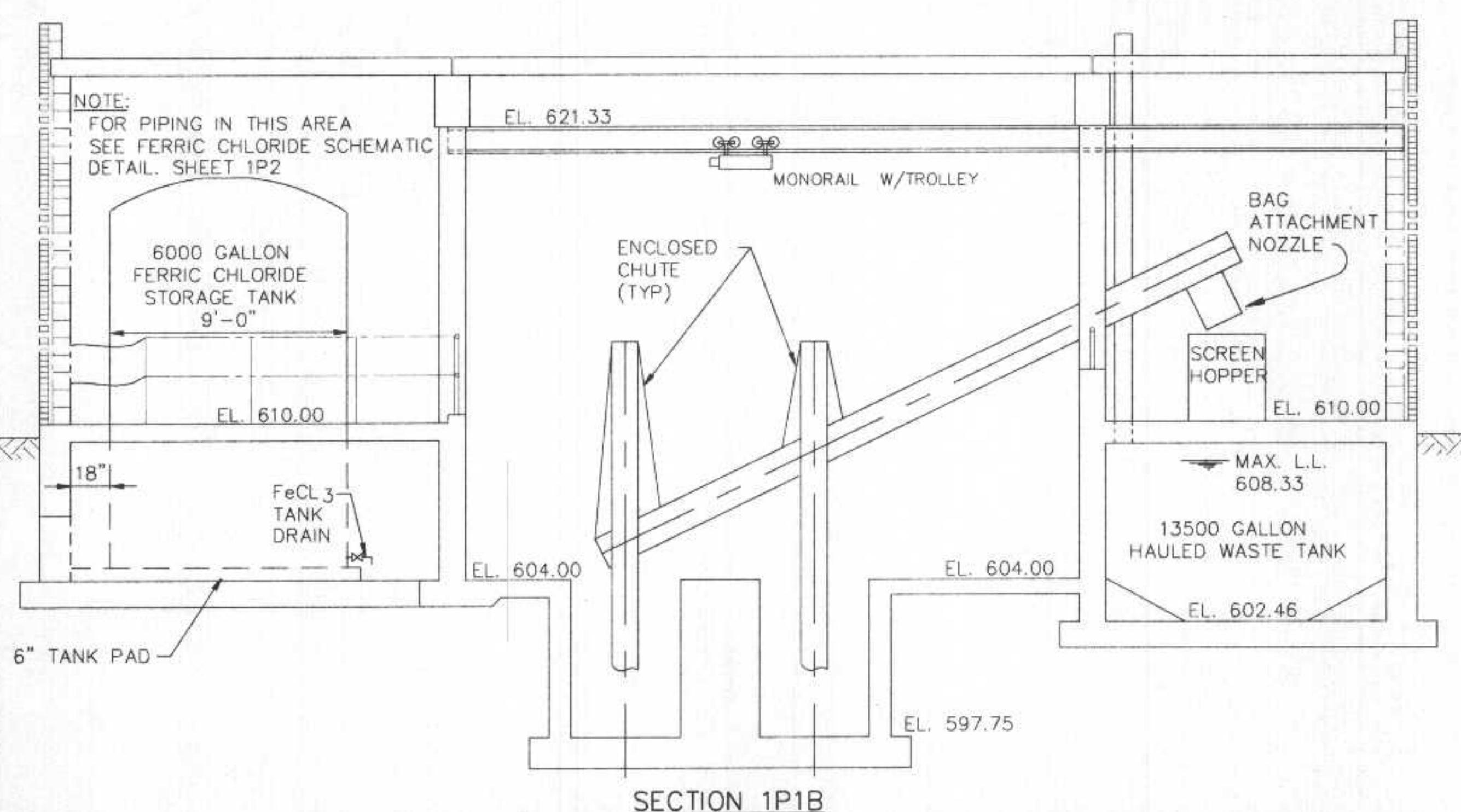
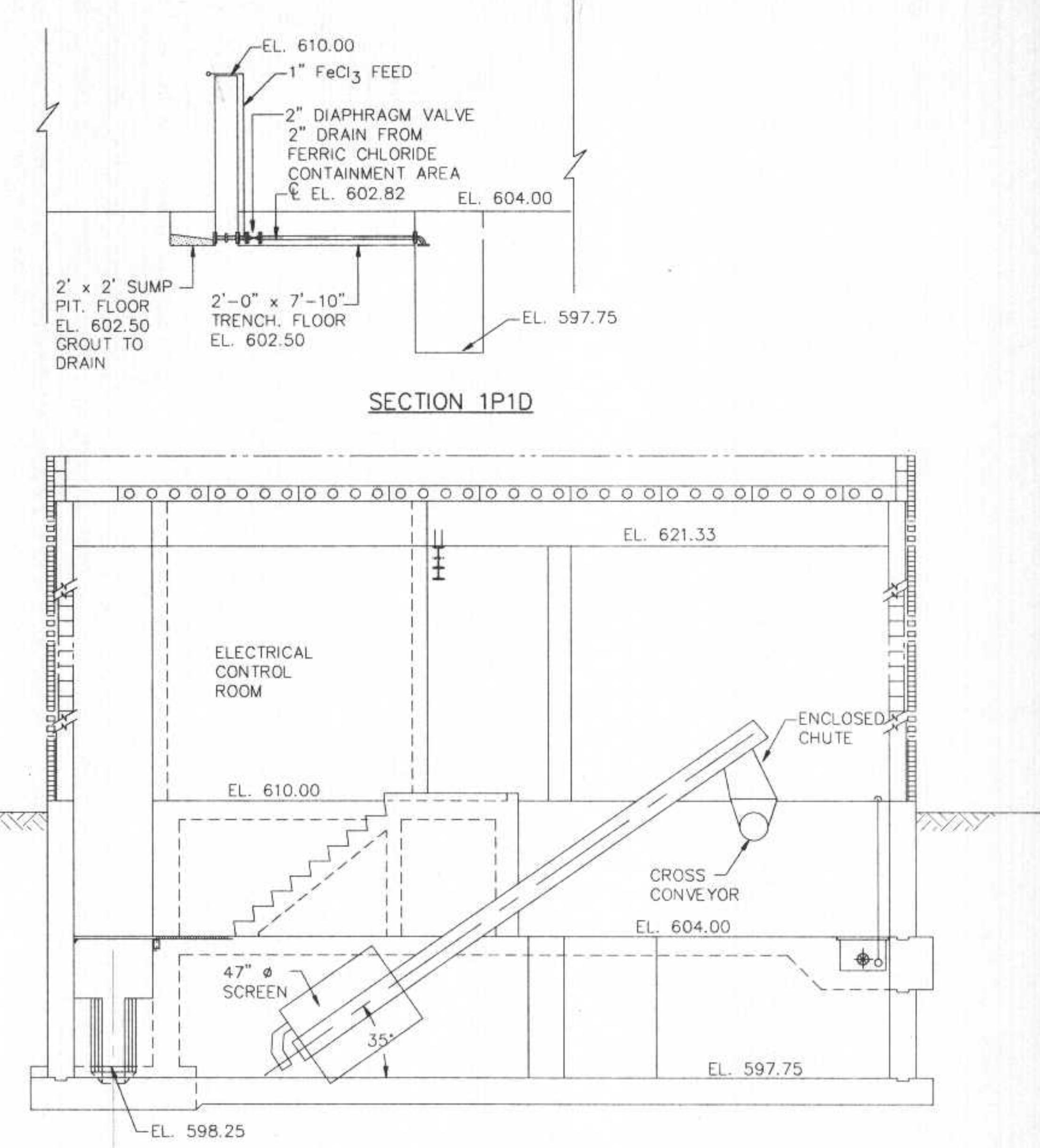
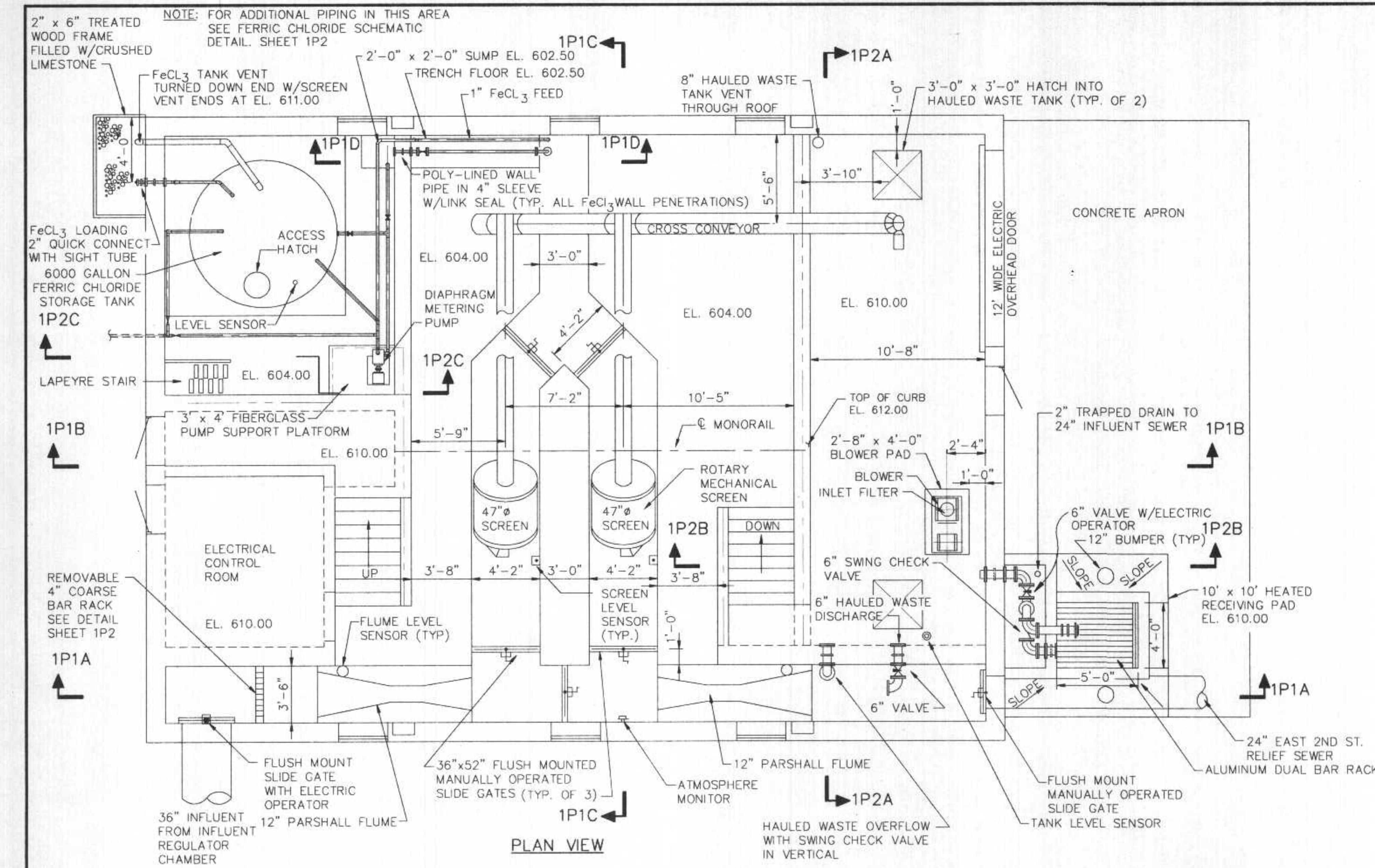
DEPARTMENT OF PUBLIC WORKS
CITY OF SUPERIOR, WISCONSIN



SCREEN BUILDING
HEATING AND VENTILATION

SHEET H-1
OF 1 SHEETS

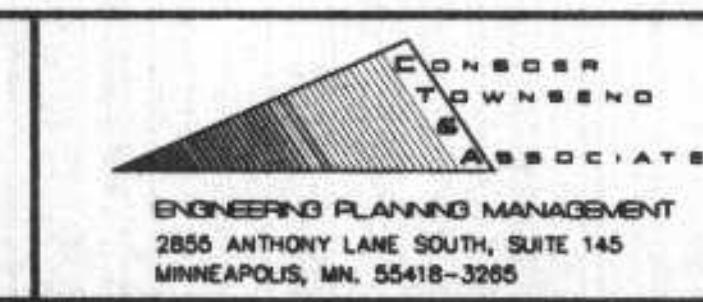




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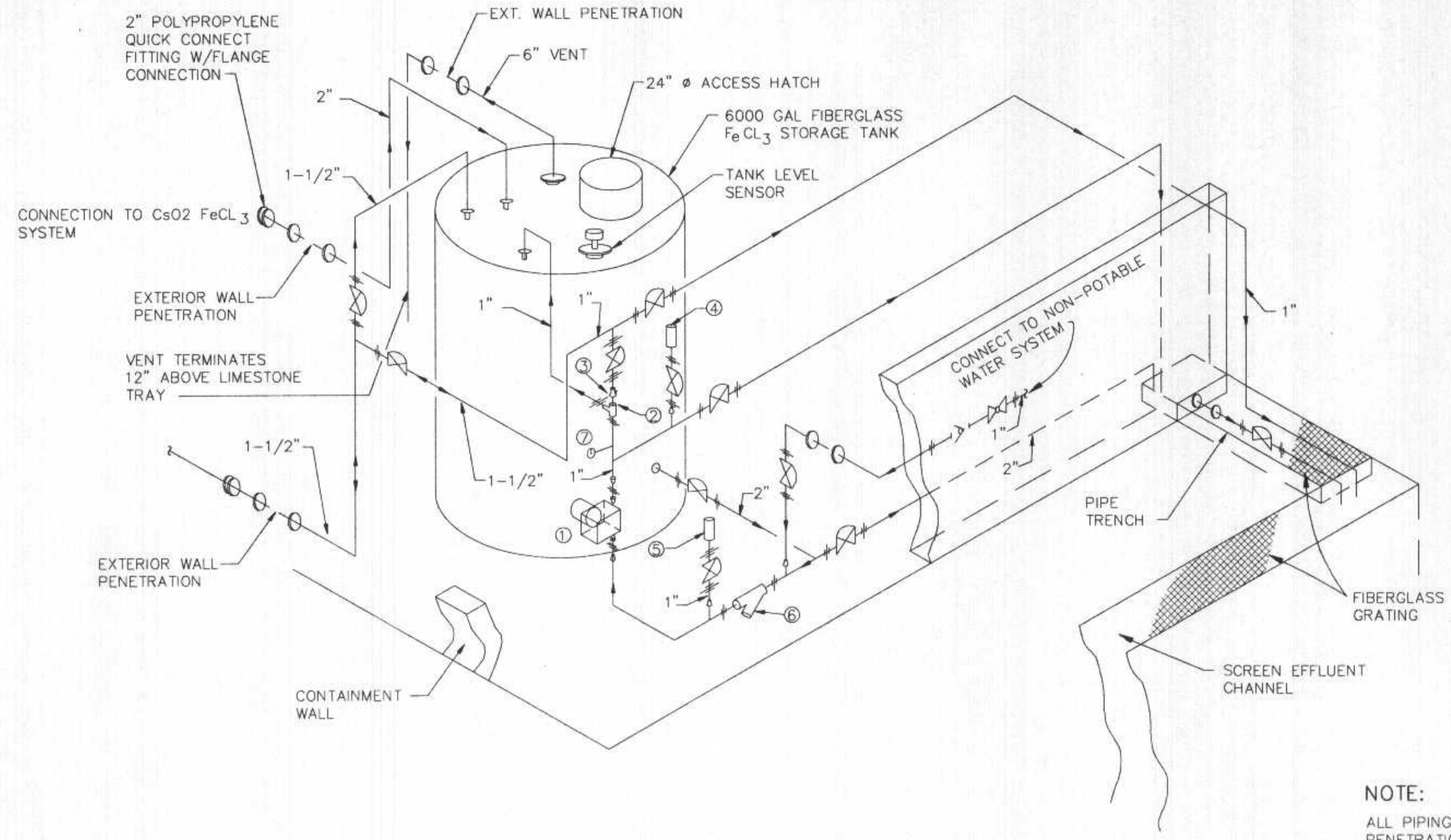
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DEPARTMENT OF PUBLIC WORKS
CITY OF SUPERIOR, WISCONSIN



SCREEN BUILDING
PLAN AND SECTIONS

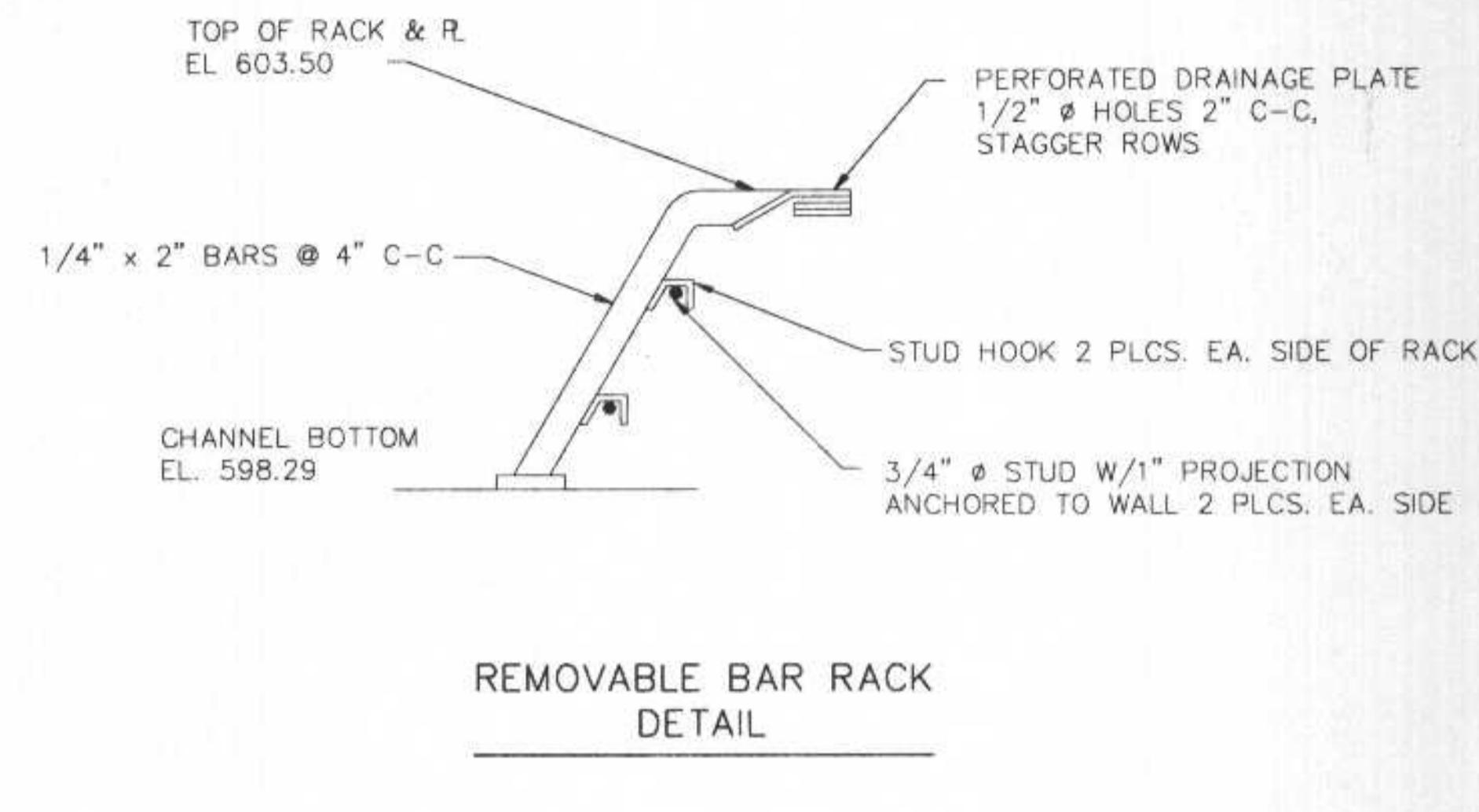
SHEET 1P1
OF 5
RECORD MAP NO.
CT&A PROJECT NO. 3899-00



FERRIC CHLORIDE SYSTEM
PIPING SCHEMATIC

LEGEND

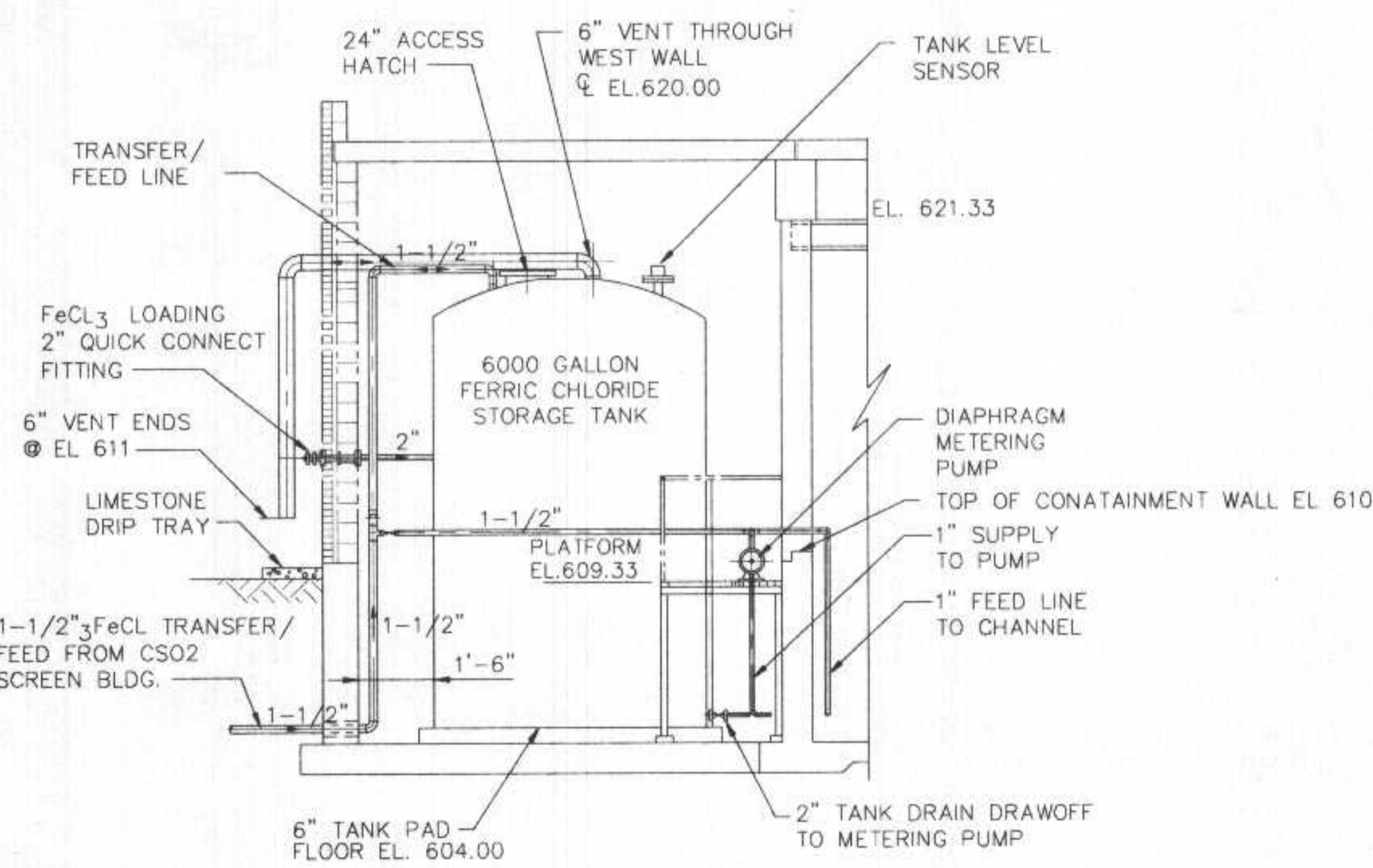
- ① METERING PUMP
- ② RELIEF VALVE
- ③ BACKPRESSURE VALVE
- ④ PULSATION DAMPER
- ⑤ CALIBRATION CHAMBER
- ⑥ STRAINER
- ⑦ PRESSURE GAUGE
- DOUBLE-UNION DIAPHRAGM VALVE
- UNION
- REDUCER
- BALL CHECK VALVE
- BALL VALVE
- WALL PENETRATION



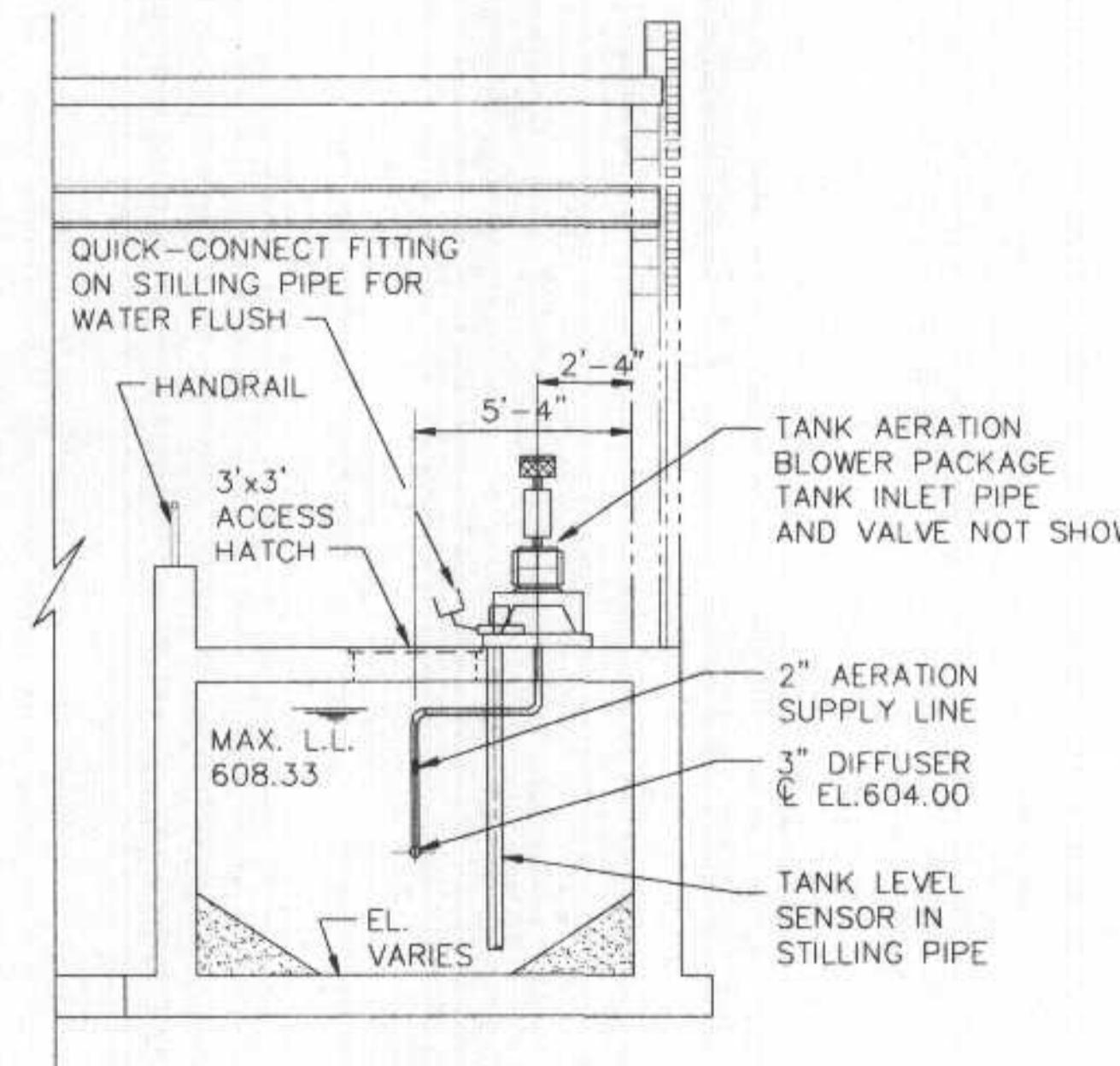
REMOVABLE BAR RACK
DETAIL

NOTE:

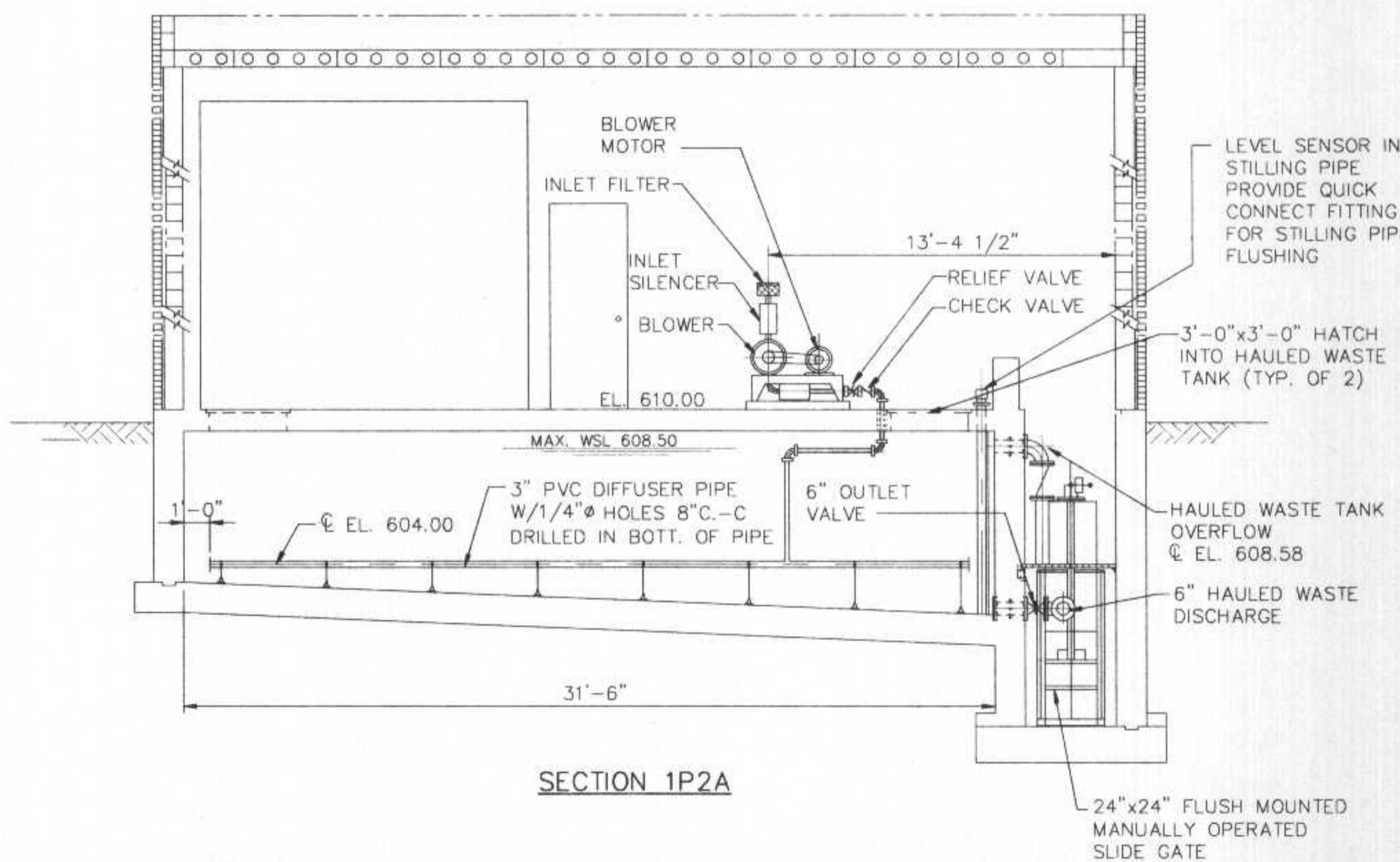
ALL PIPING IS SCH 80 PVC EXCEPT WALL PENETRATIONS WHICH ARE POLYPROPYLENE -LINED STEEL MOUNTED USING LINK-SEALS.



SECTION 1P2C



SECTION 1P2B

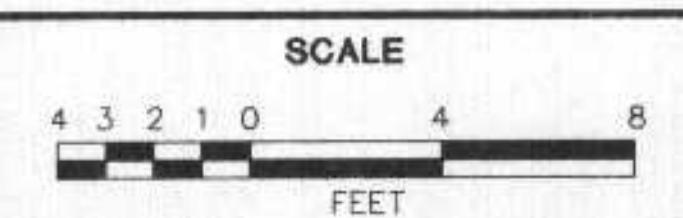


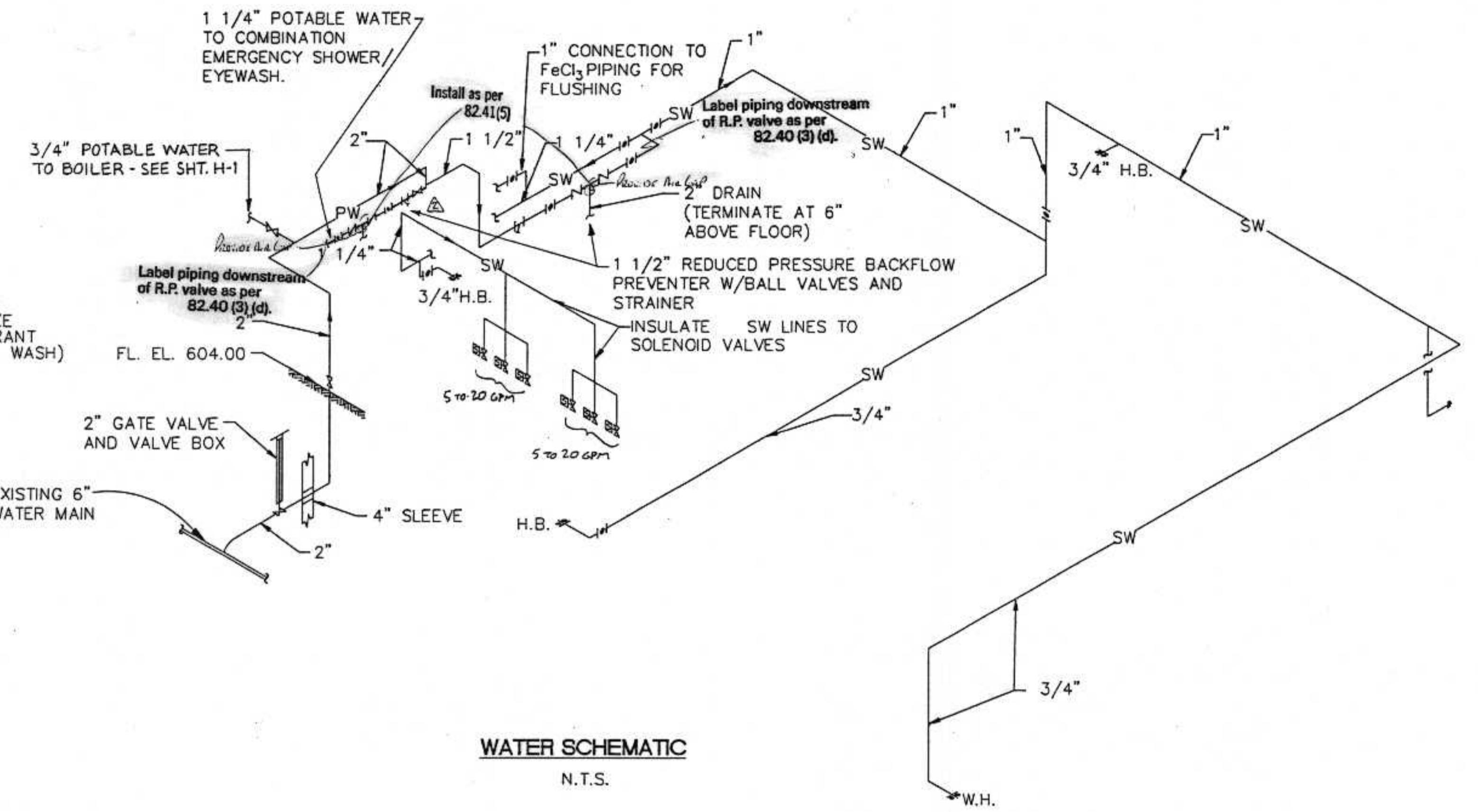
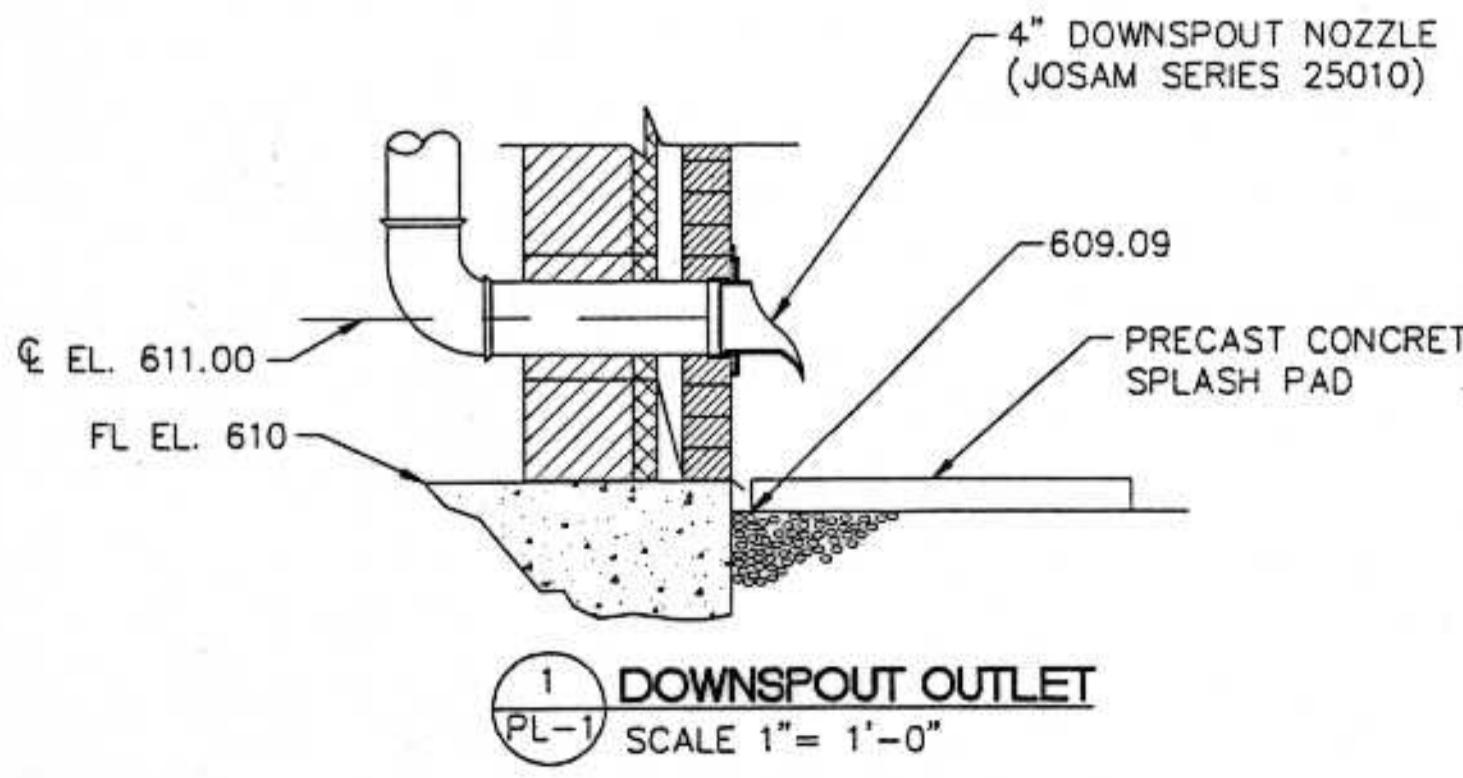
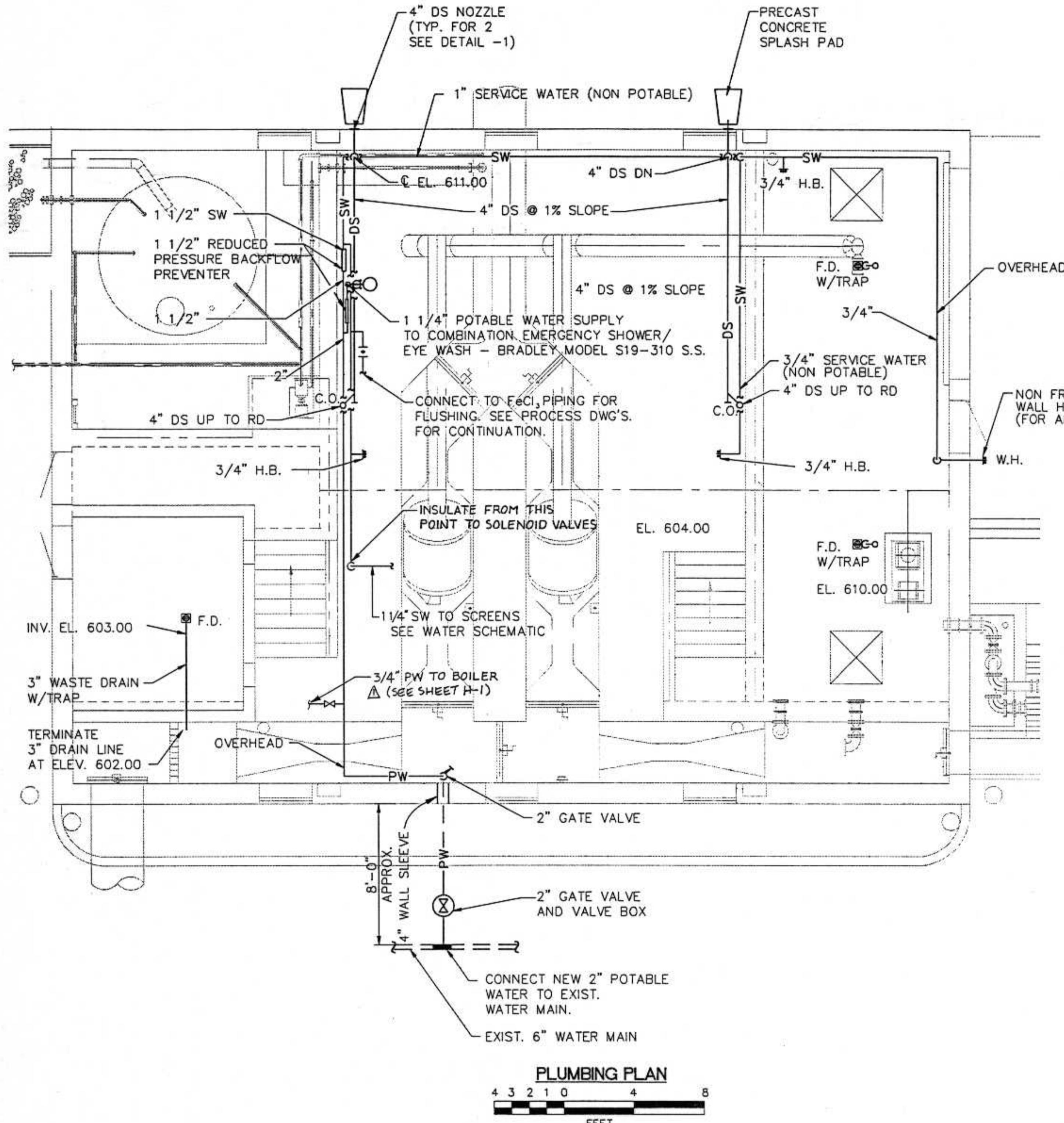
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**DEPARTMENT OF PUBLIC WORKS
CITY OF SUPERIOR, WISCONSIN**

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DESIGNED	TN
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DATE	APRIL, 1994

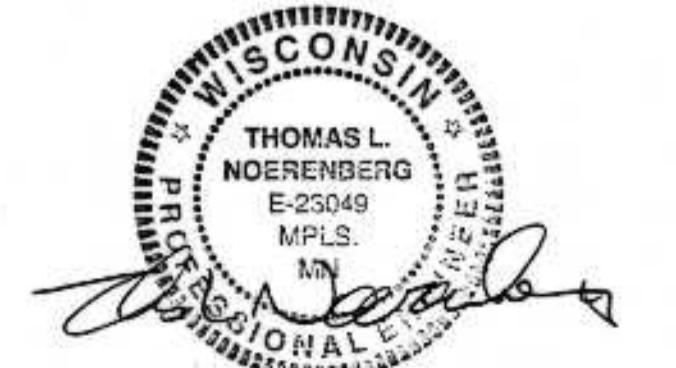




SYMBOLS AND ABBREVIATIONS

=====	EXISTING WATER MAIN
-----	NEW POTABLE WATER LINE (UNDERGROUND)
PW	POTABLE WATER (ABOVE GROUND)
SW	SERVICE WATER - NONPOTABLE (ABOVE GROUND)
DS	DOWNSPOUT
=====	WASTE DRAINAGE LINE (ABOVE GROUND)
FD	FLOOR DRAIN
HB/WH	HOSE BIBB/OR WALL HYDRANT
S	SOLENOID VALVE
STRAINER	STRAINER
•	BALL VALVE
X	GATE VALVE
O.C.O.	CLEAN OUT

Conditionally
APPROVED
DEPARTMENT OF COMMERCE
DIVISION OF SAFETY AND INSPECTION
Thomas L. Noerenberg
SEE CORRESPONDENCE



RECEIVED
AUG 13 1997
SAFETY & BLDG DIV.

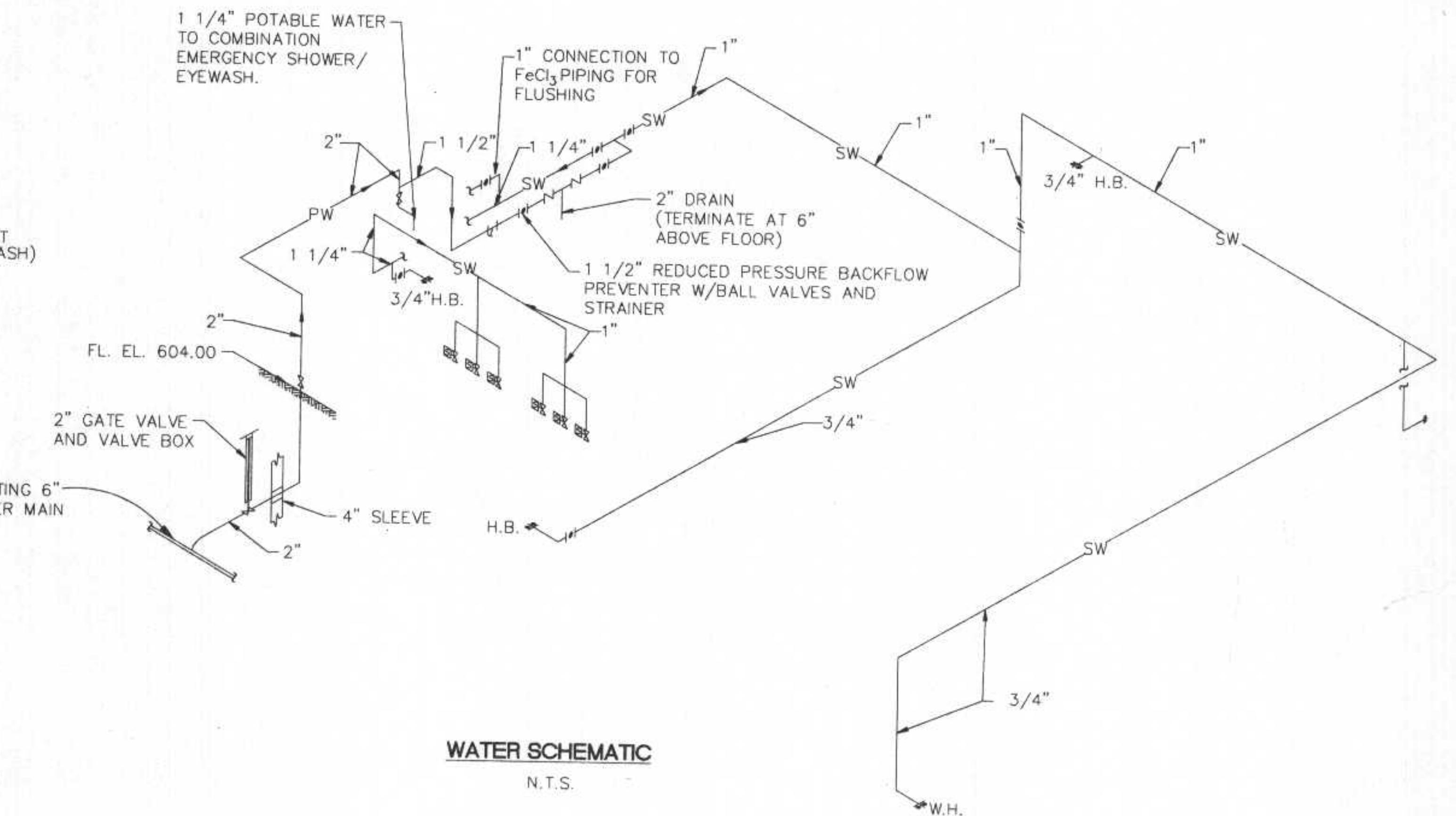
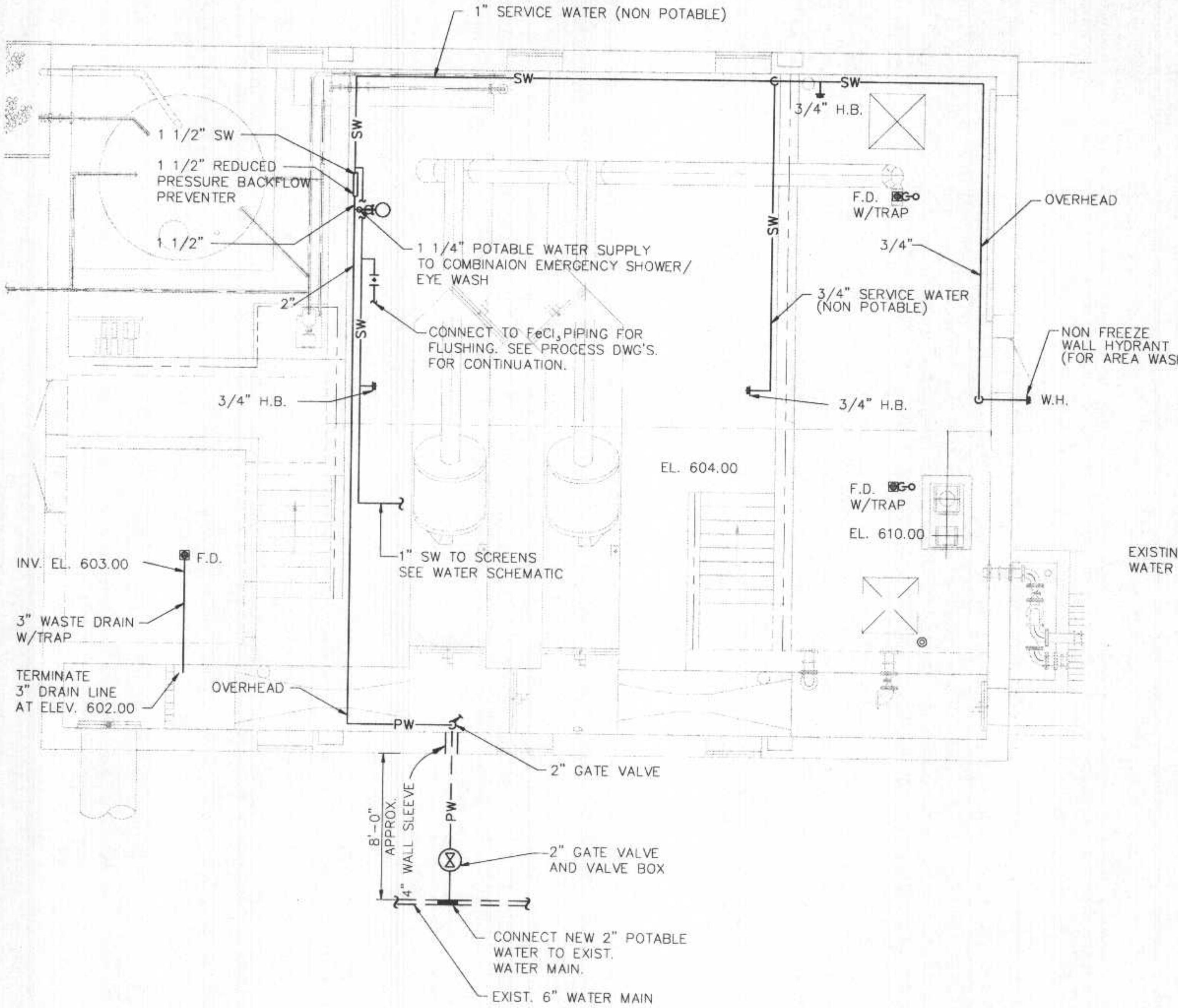
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PL-1
OF 1 SHEETS
CT&A PROJECT NO. 3899-02

DEPARTMENT OF PUBLIC WORKS
CITY OF SUPERIOR, WISCONSIN



SCREEN BUILDING
PLUMBING PLAN



SYMBOLS AND ABBREVIATIONS

=====	EXISTING WATER MAIN
-----	NEW POTABLE WATER LINE (UNDERGROUND)
-----PW-----	POTABLE WATER (ABOVE GROUND)
-----SW-----	SERVICE WATER - NONPOTABLE (ABOVE GROUND)
-----W-----	WASTE DRAINAGE LINE (ABOVE GROUND)

FD FLOOR DRAIN

HB/W.H. HOSE BIBB/OR WALL HYDRANT

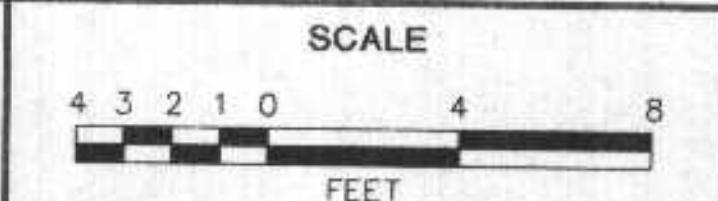
SOLENOID VALVE

STRAINER

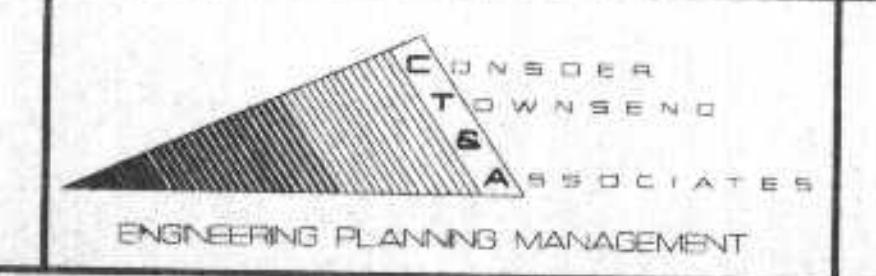
BALL VALVE

GATE VALVE

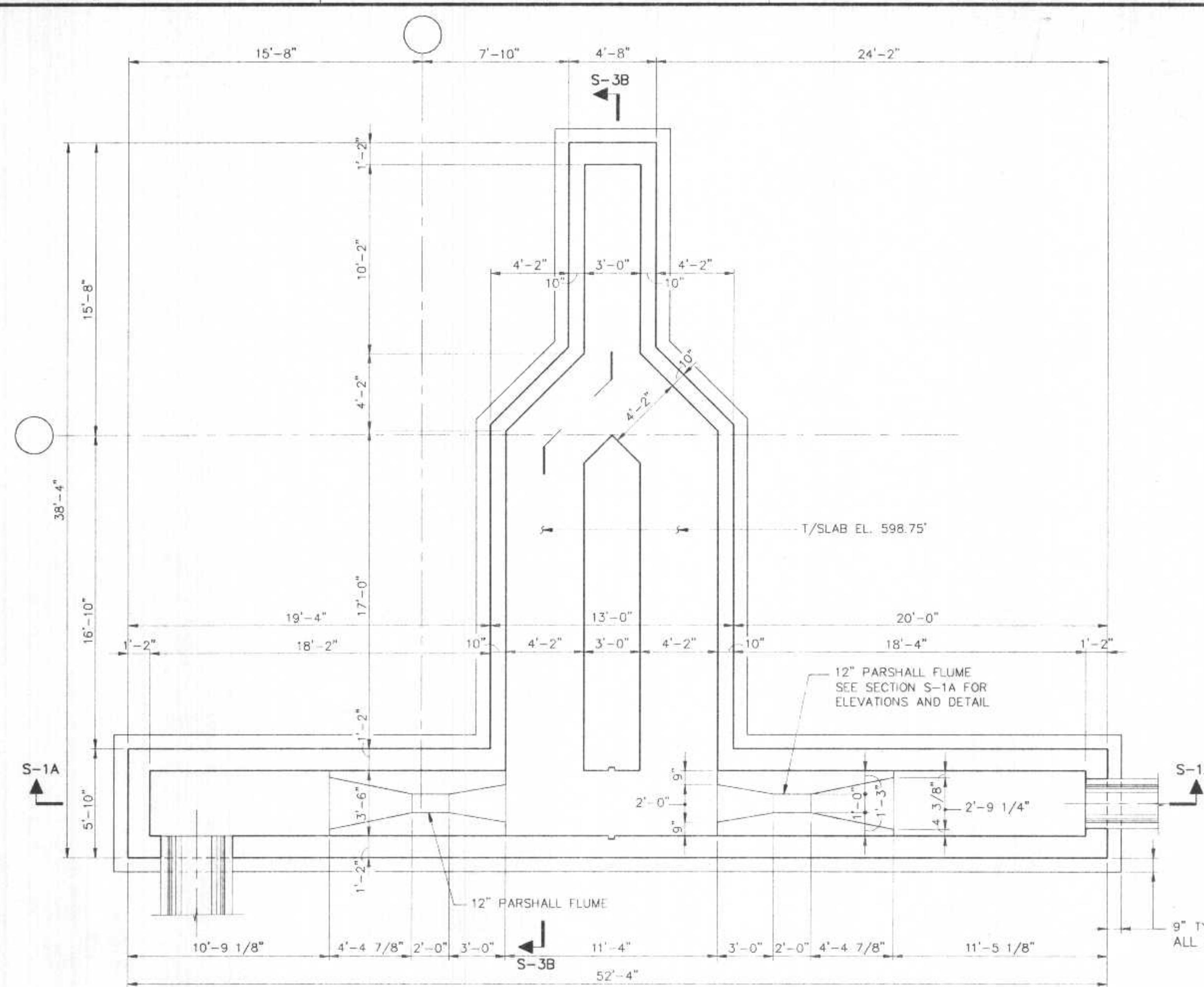
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NO.	DATE	REVISIONS



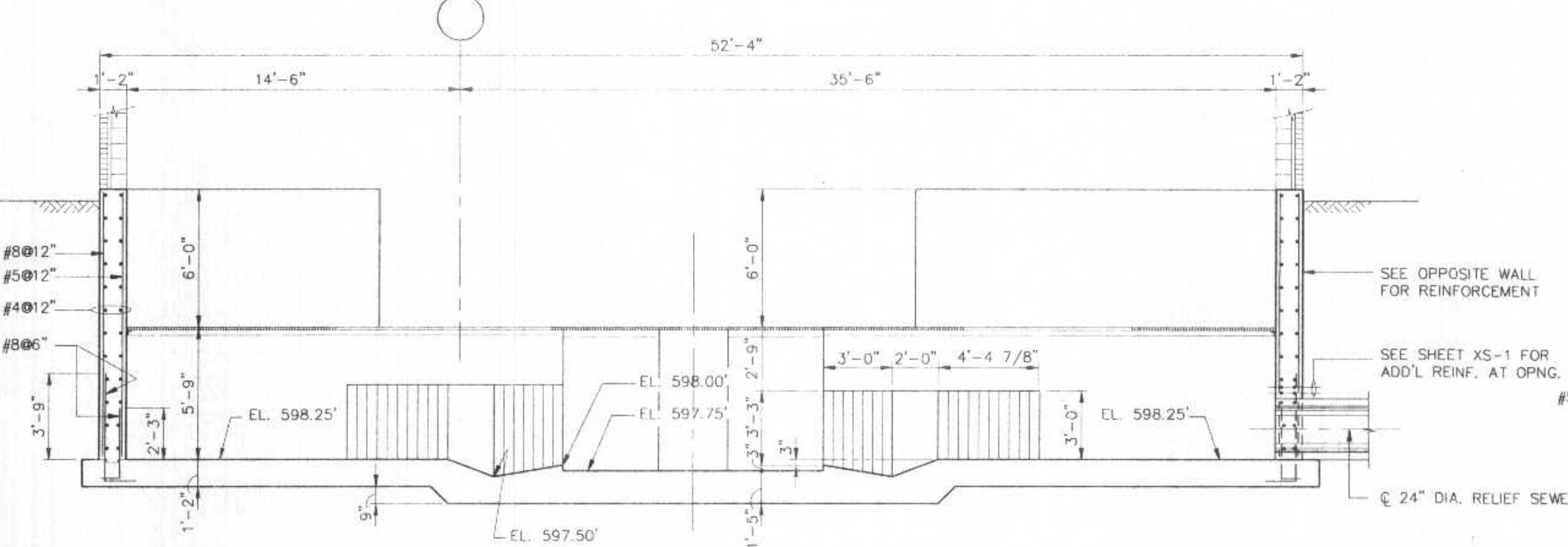
**DEPARTMENT OF PUBLIC WORKS
CITY OF SUPERIOR, WISCONSIN**



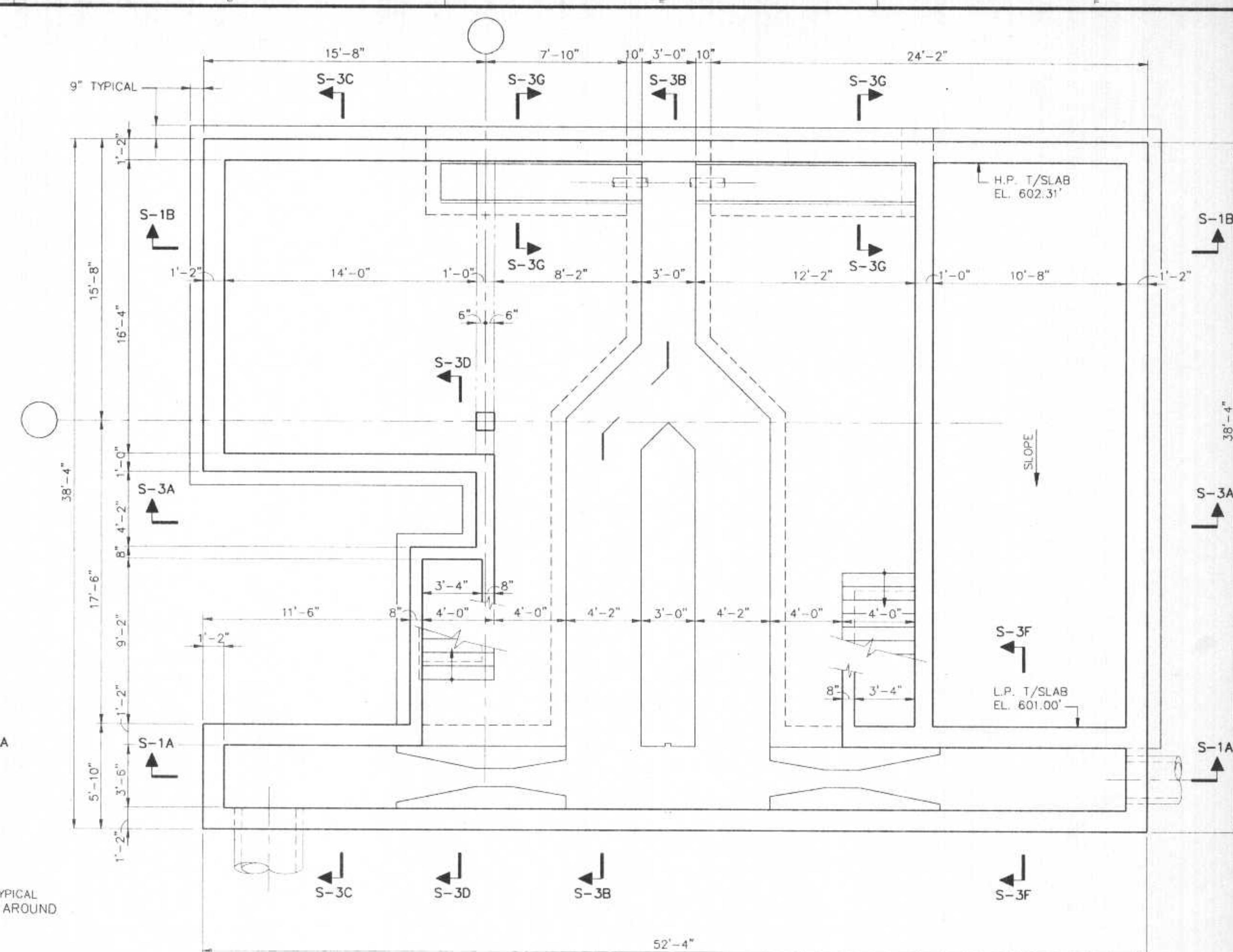
SCREEN BUILDING
PLUMBING PLAN



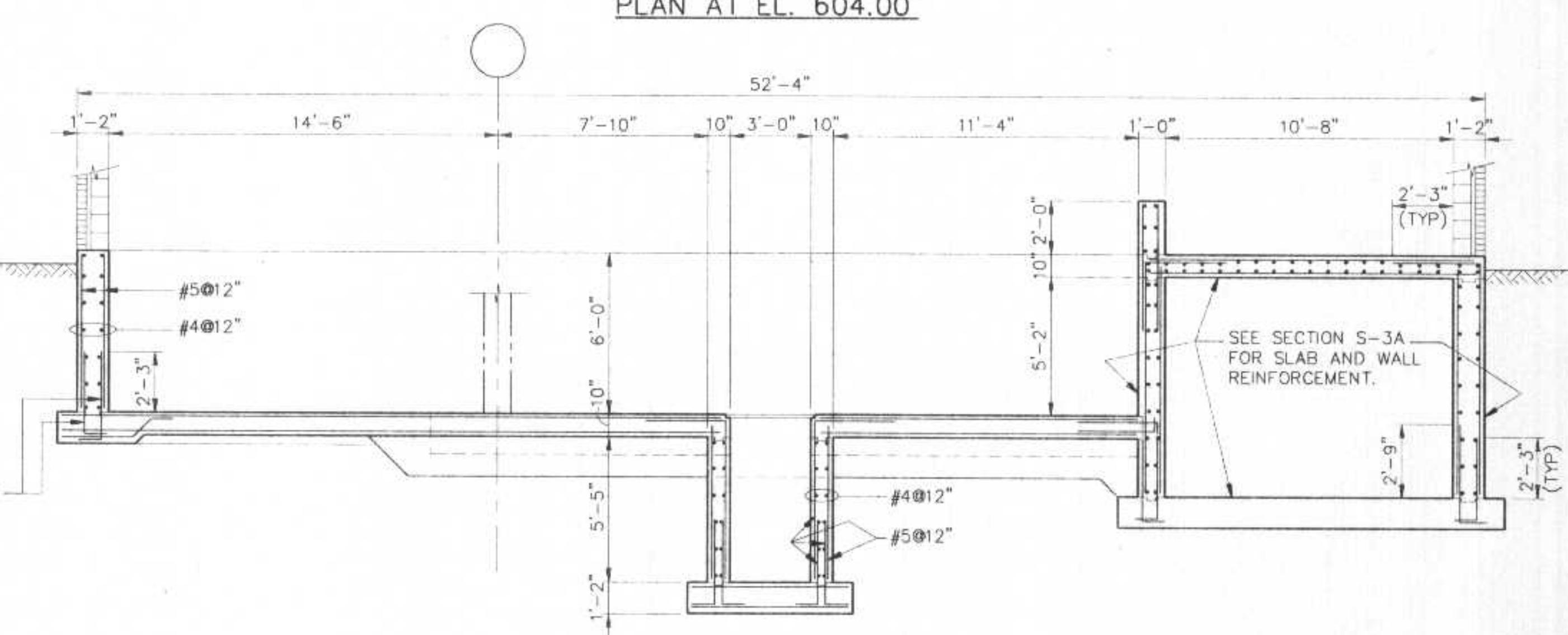
PLAN AT EL. 598.25'



SECTION S-1A



PLAN AT EL. 604.00'



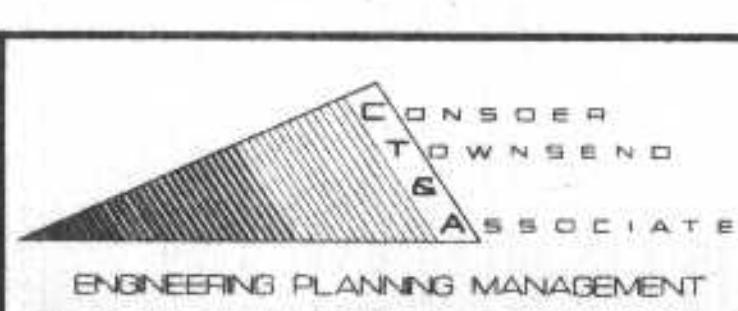
SECTION S-1B

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REVISIONS			

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CHECKED _____
DATE _____

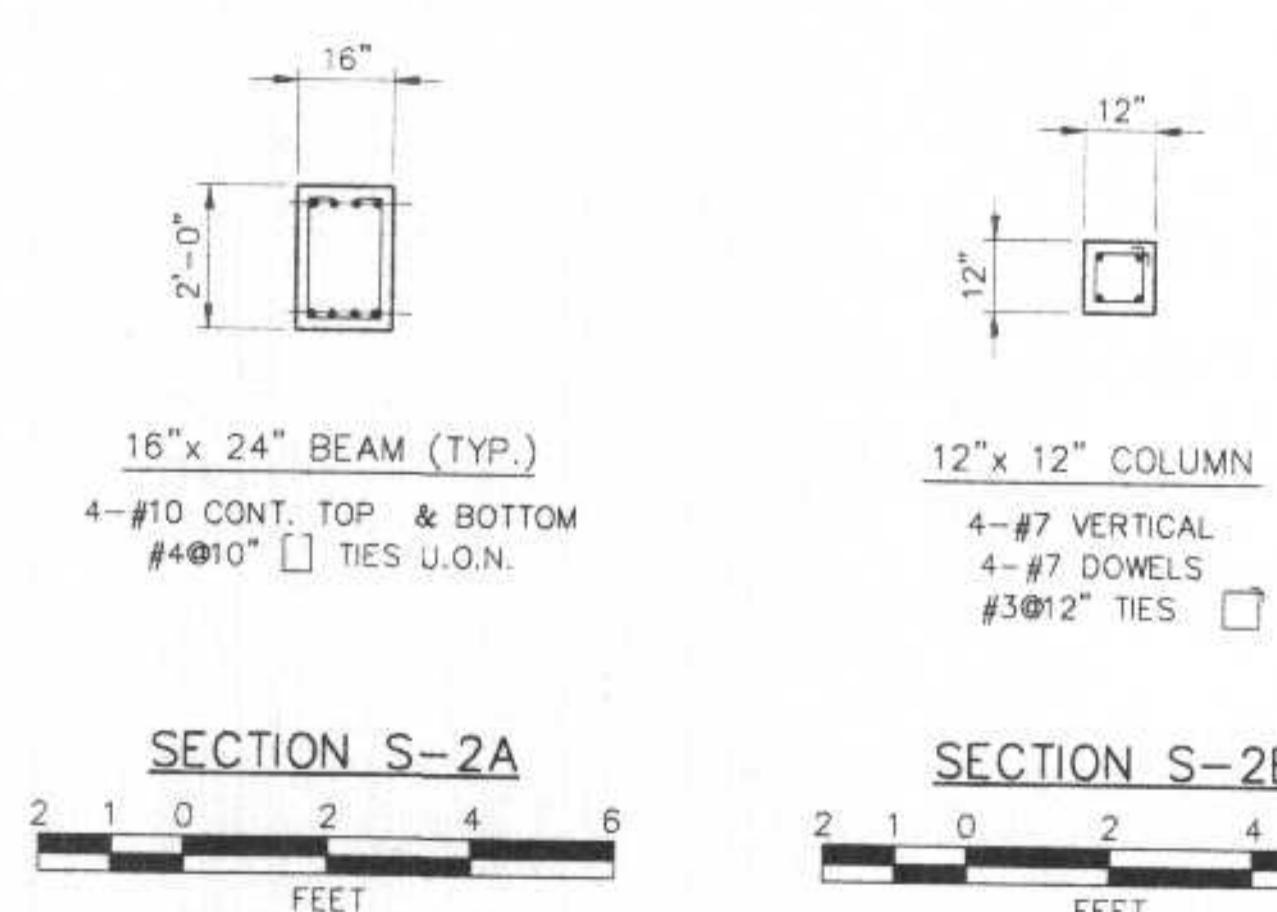
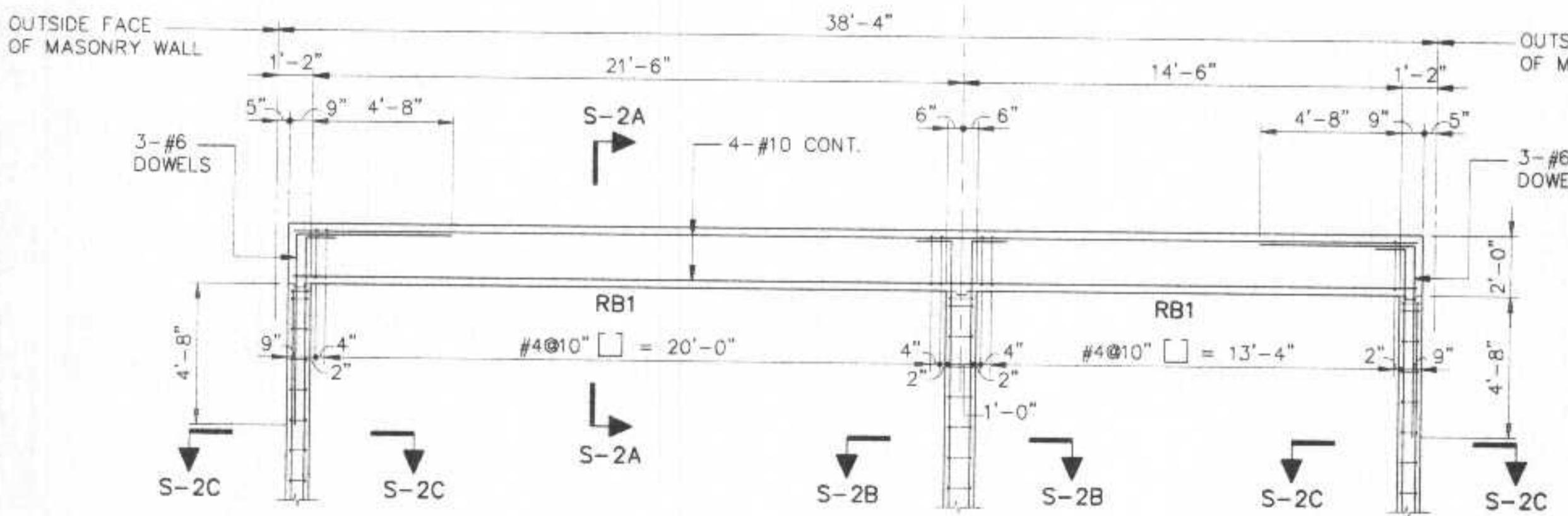
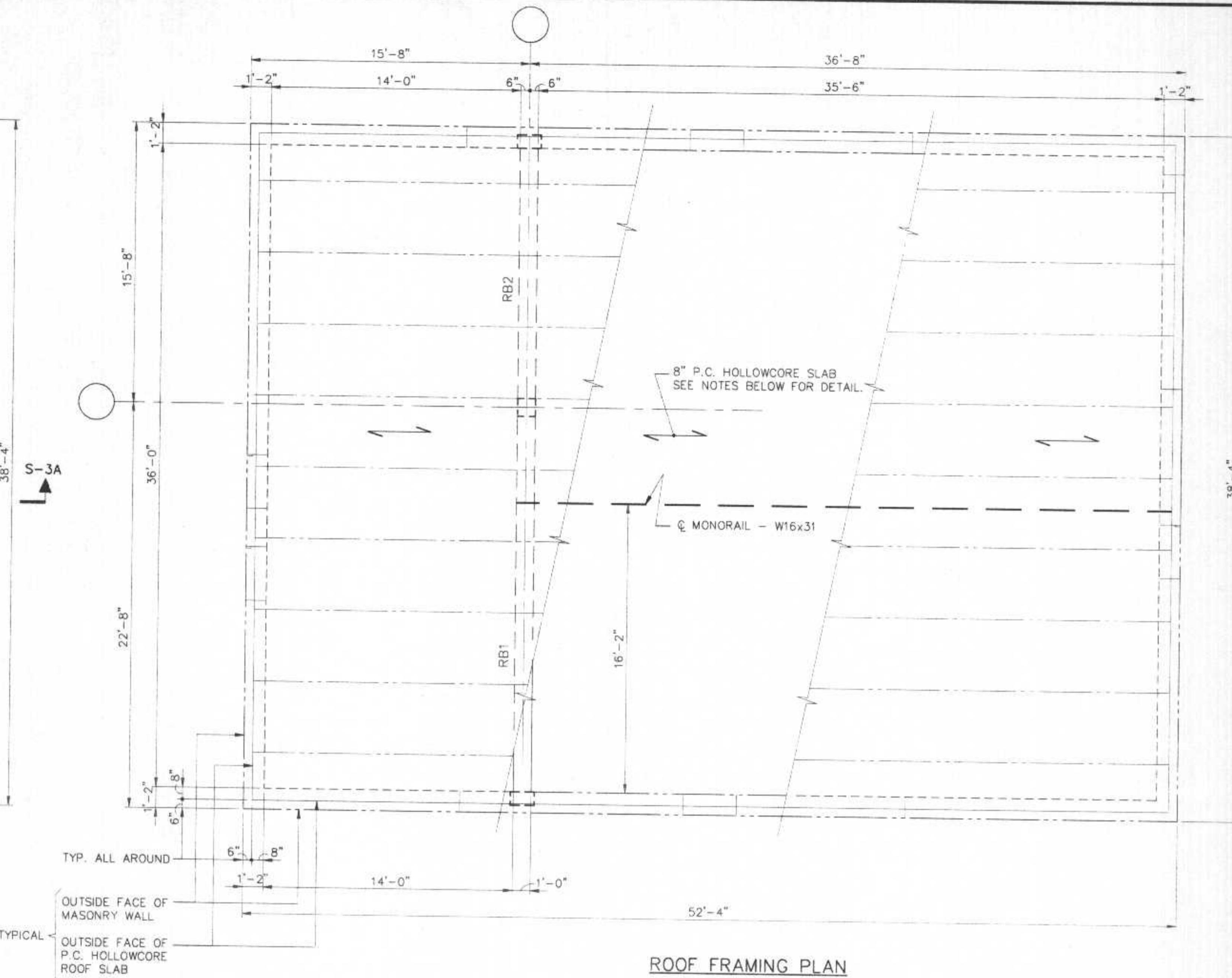
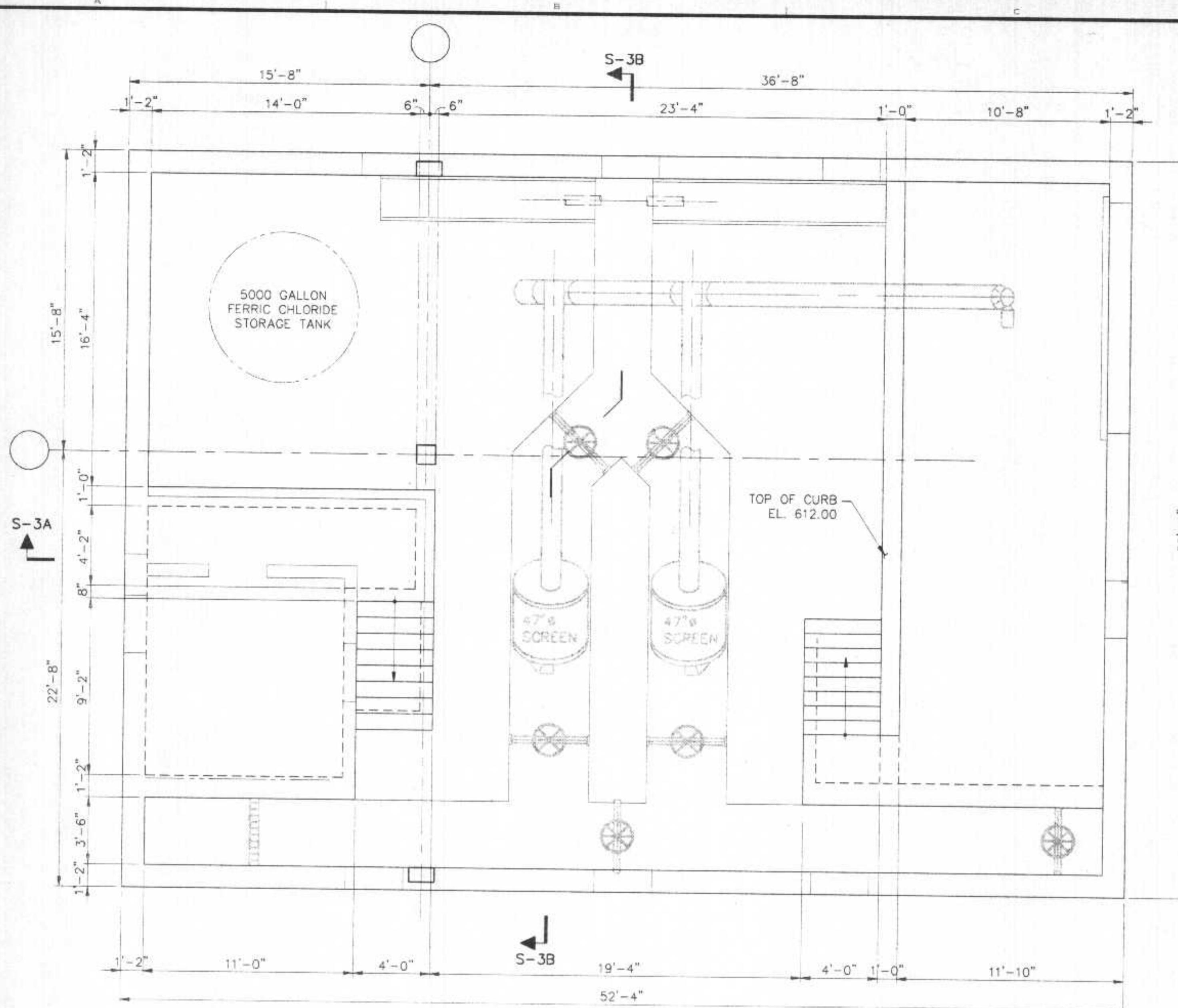
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FEET

DEPARTMENT OF PUBLIC WORKS
CITY OF SUPERIOR, WISCONSIN



SCREEN BUILDING
PLAN AND SECTIONS

SHEET S-1
OF
RECORD MAP NO.
CT&A PROJECT NO. 3899-00



NOTES :

- P.C. HOLLOWCORE ROOF SLAB SHALL SUPPORT THE FOLLOWING SUPERIMPOSED LOADS:
LIVE LOAD.....30 PSF
ROOFING AND INSULATION.....25 PSF
MECHANICAL, ETC.....15 PSF
- B" P.C. HOLLOWCORE SLAB SHALL NOT WEIGH MORE THAN 20 PSF.
- FOR LOCATION AND SIZE OF ROOF OPENINGS SEE PROCESS, MECHANICAL AND ARCHITECTURAL DRAWINGS.
- (*) DIMENSIONS TO BE CHECKED AGAINST MECHANICAL DRAWINGS AND COORDINATED WITH EQUIPMENT MANUFACTURER'S DRAWINGS.
- PRECAST ROOF SLAB CONTRACTOR TO FRAME ALL OPENINGS AS REQUIRED TO SUPPORT INTERRUPTED SLABS, EXCEPT AS SHOWN OTHERWISE.
- PRECAST SLAB MANUFACTURER SHALL PROVIDE INSERTS TO SUPPORT PIPES, DUCTWORK AND OTHER EQUIPMENT. FOR DETAILS SEE PROCESS, MECHANICAL, ELECTRICAL AND ARCHITECTURAL DWGS.
- MASONRY WALLS SHALL BE ADEQUATELY BRACED DURING ERECTION OF PRECAST ROOF SLAB UNITS. THESE TEMPORARY BRACINGS AND GUYS SHALL BE MAINTAINED UNTIL ALL CONNECTIONS SHOWN ARE SATISFACTORILY COMPLETED. FOR CONNECTION DETAILS SEE THIS SHEET.

NO.	DATE	DESCRIPTION	APPROVED
DESIGNED	JAM	DRAWN	LTS
CHECKED		SCALE	
DATE		4 3 2 1 0	8

REVISIONS

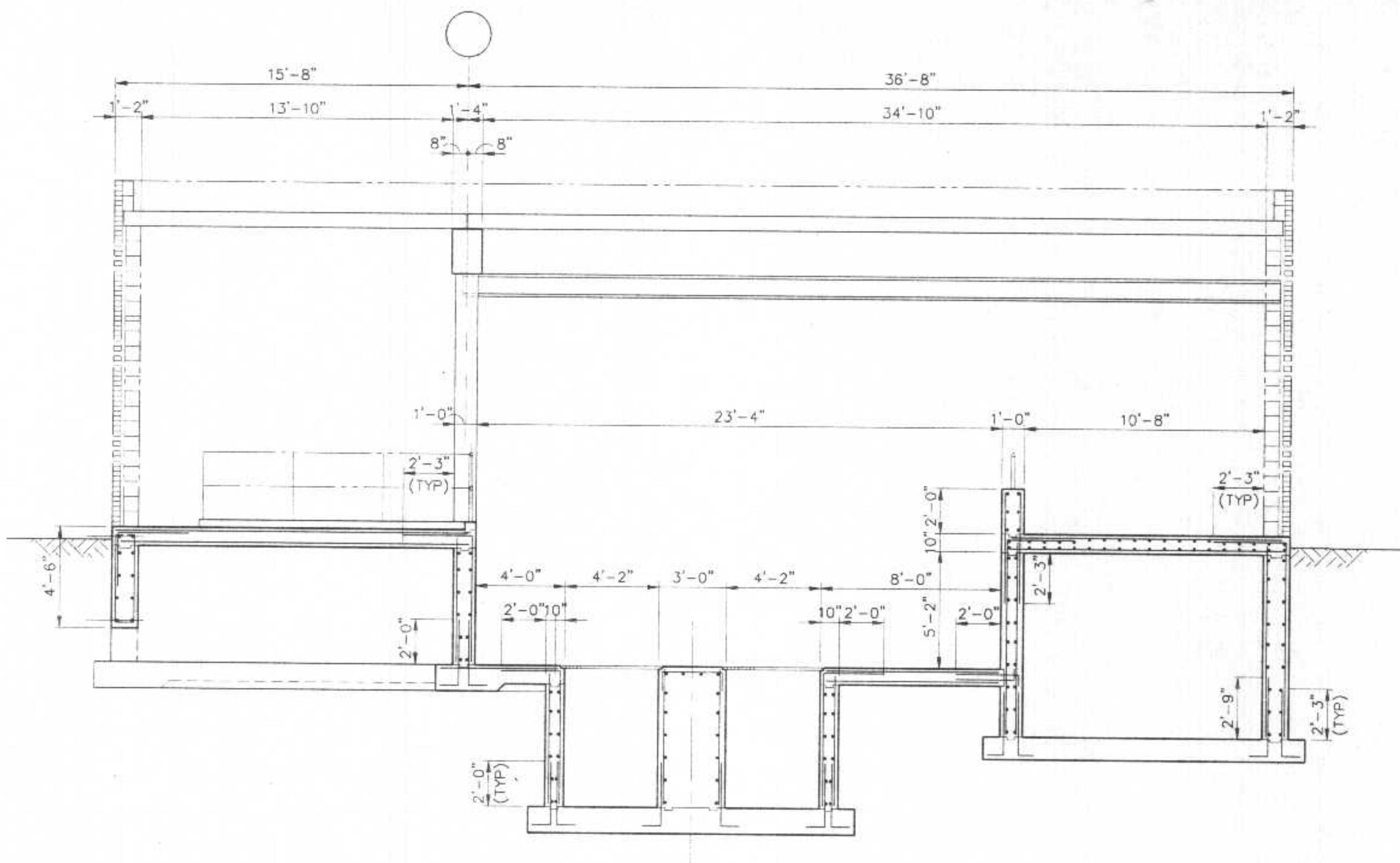
BEAM ELEVATION

DEPARTMENT OF PUBLIC WORKS
CITY OF SUPERIOR, WISCONSIN

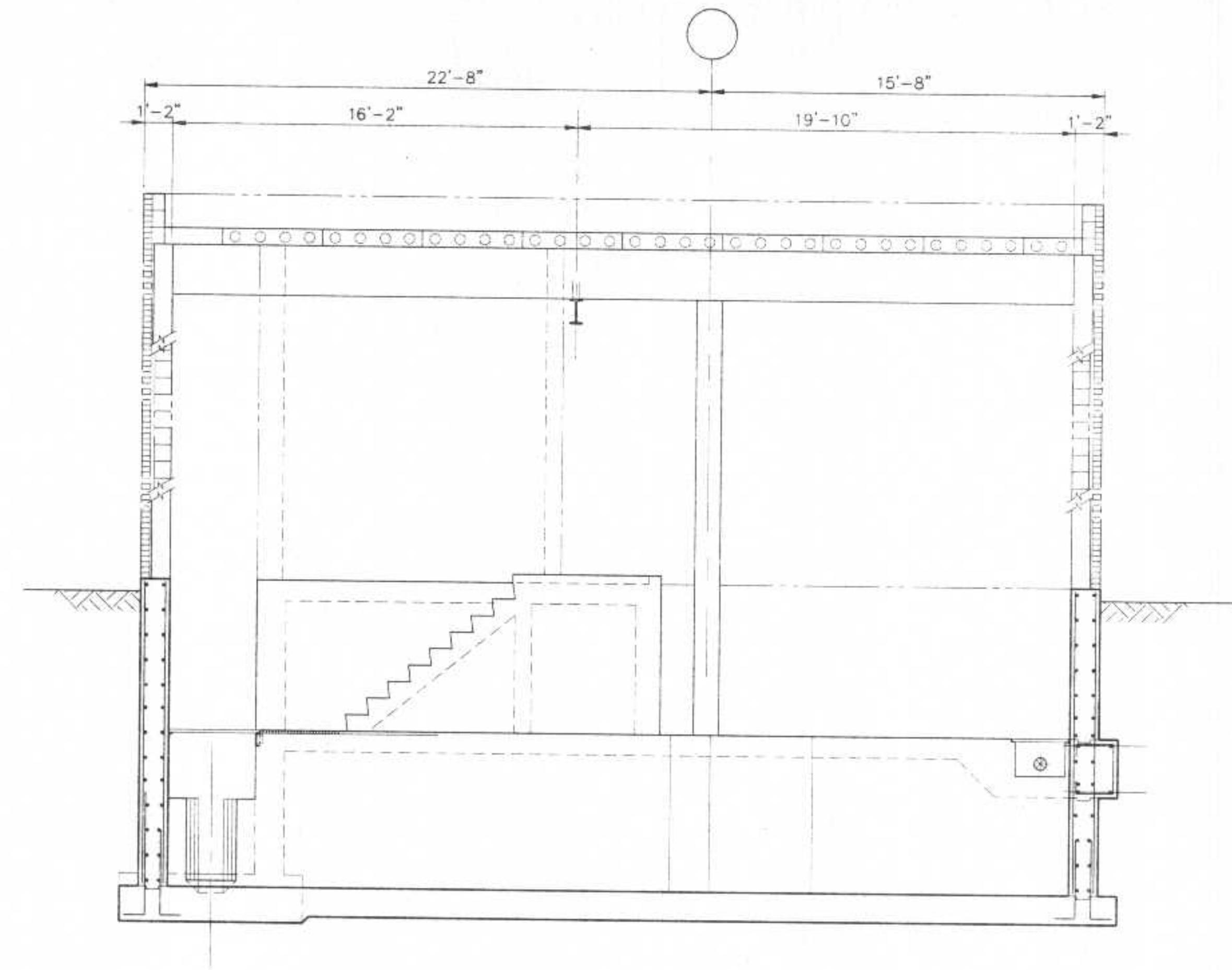


SCREEN BUILDING
PLAN AND SECTIONS

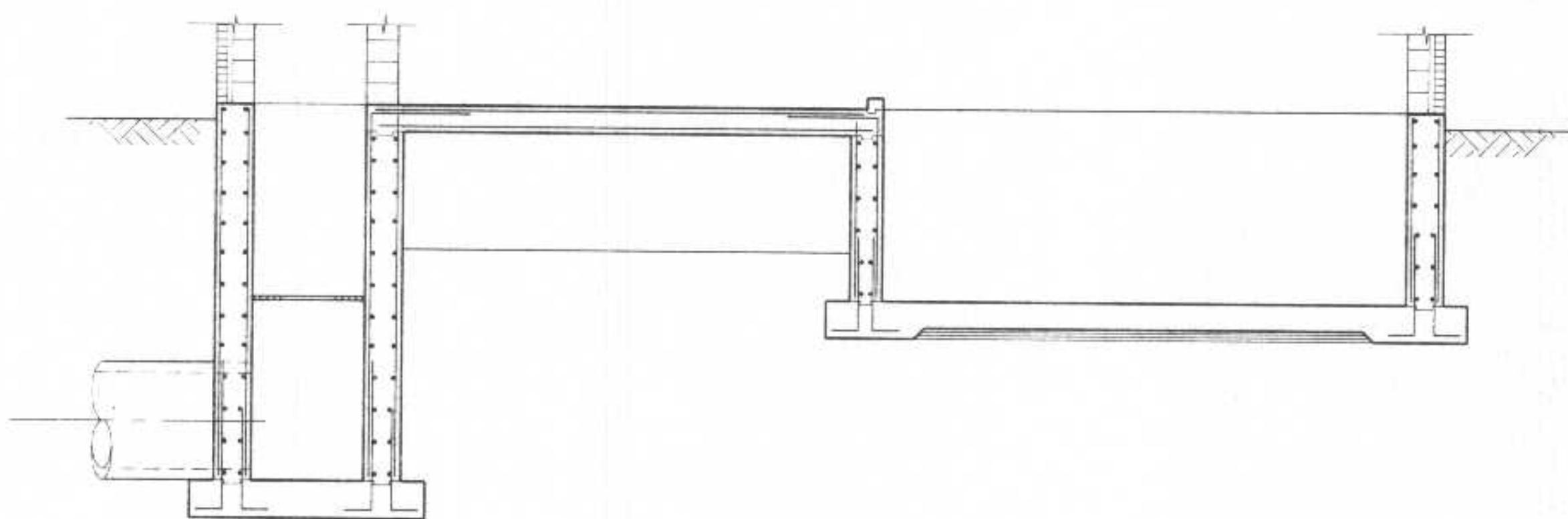
SHEET S-2
OF
RECORD MAP NO.
CT&A PROJECT NO. 3899-00
SHEETS



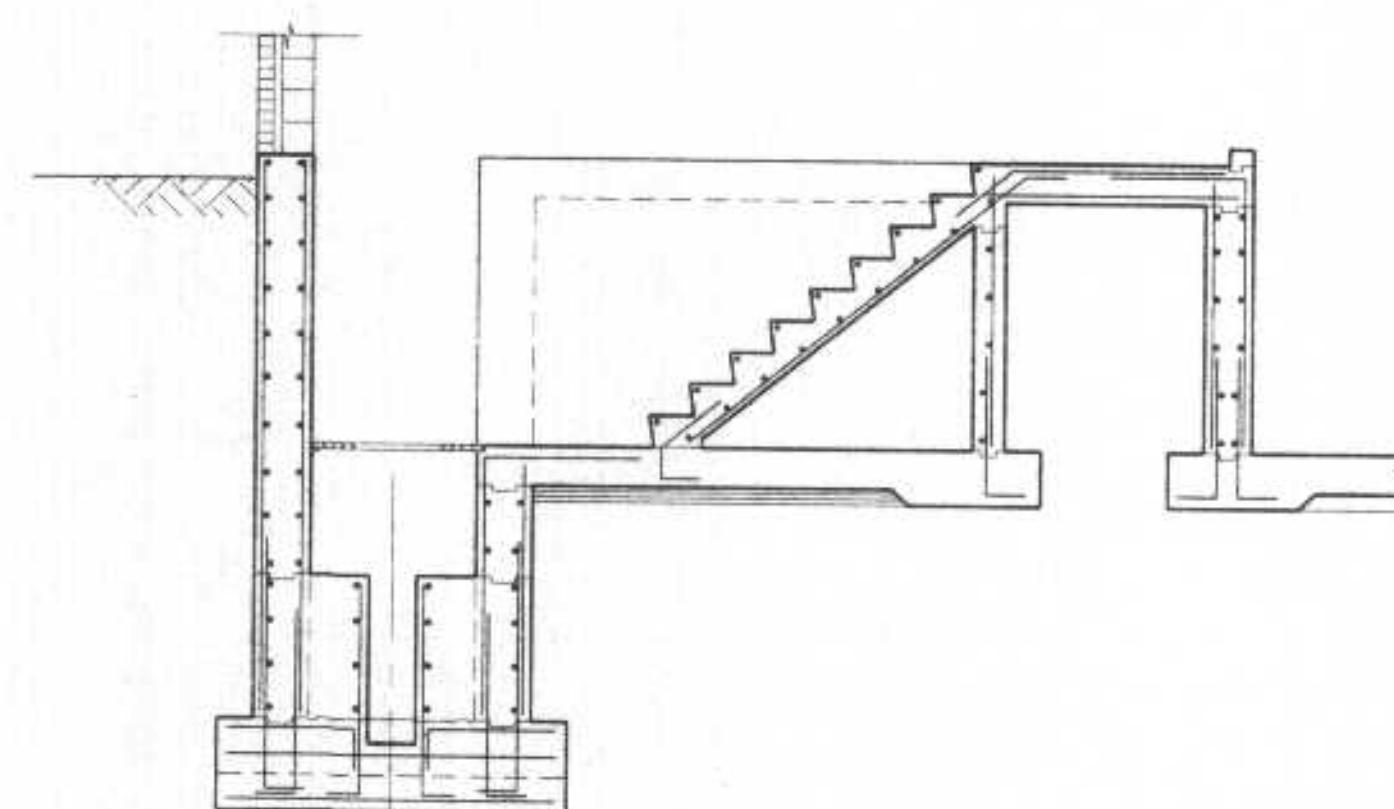
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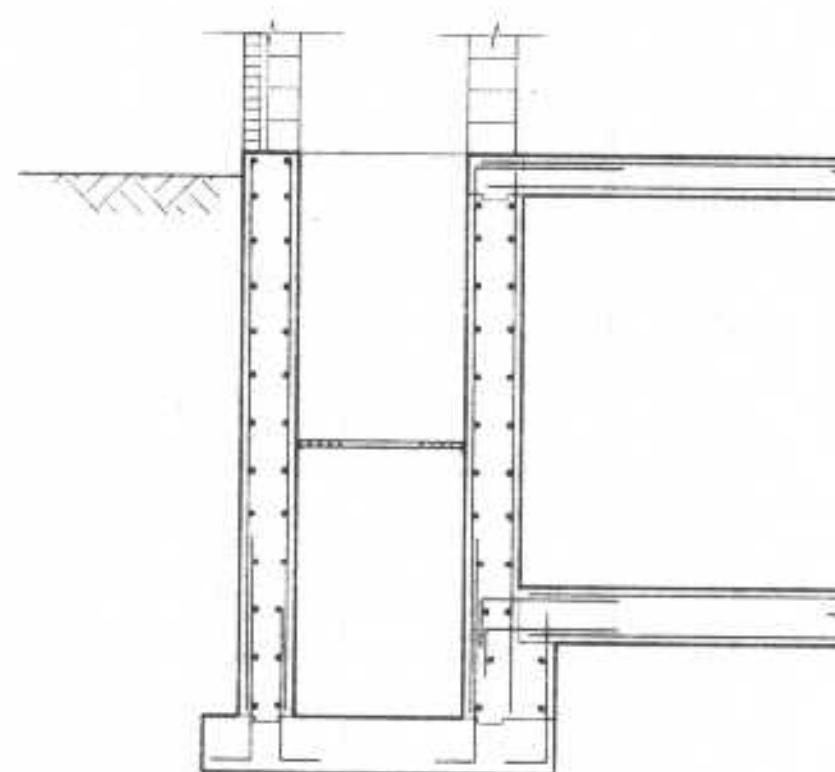
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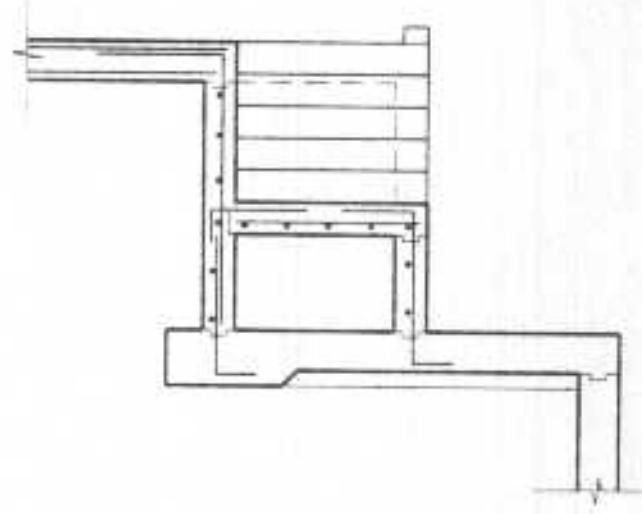
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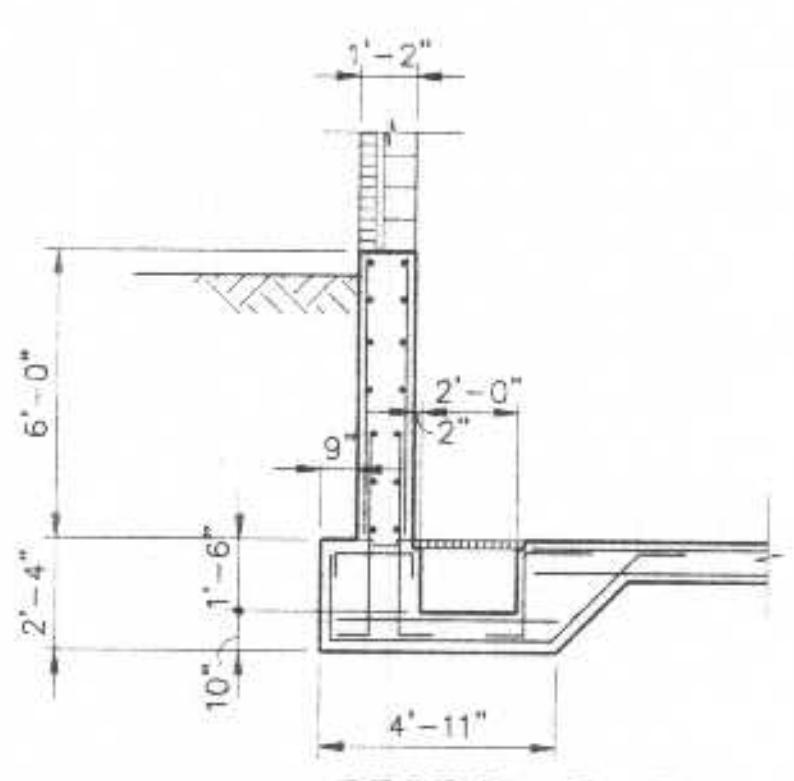
SECTION S-3D



SECTION S-3E



SECTION S-3F

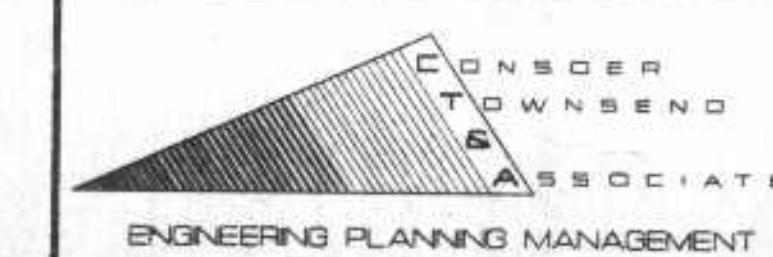


SECTION S-3G

DESIGNED	JAM
DRAWN	LTS
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REVISIONS	
NO.	DATE
DESCRIPTION	
APPROVED	

SCALE
4 3 2 1 0 4 8
FEET

DEPARTMENT OF PUBLIC WORKS
CITY OF SUPERIOR, WISCONSIN



SCREEN BUILDING
SECTIONS AND DETAILS

SHEET S-3
OF
RECORD MAP NO.
CT&A PROJECT NO. 3899-00
SHEETS

GENERAL NOTES FOR STRUCTURES

CONCRETE

- DESIGN AND CONSTRUCTION SHALL CONFORM TO THE LATEST BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE OF THE AMERICAN CONCRETE INSTITUTE (ACI 318).
- ALL REINFORCING BARS SHALL CONFORM TO A.S.T.M. A-615, GRADE 60. ARRANGEMENT AND DETAILS OF REINFORCING STEEL, INCLUDING BAR SUPPORTS AND SPACERS, SHALL BE IN ACCORDANCE WITH THE LATEST ACI DETAILING MANUAL UNLESS OTHERWISE NOTED.
- ALL SLAB AND BEAM REINFORCEMENT SHALL HAVE A MINIMUM EXTENSION INTO THE SUPPORT IN ACCORDANCE WITH THE LATEST ACI CODE. IF SUCH EXTENSION IS NOT POSSIBLE, BARS SHALL TERMINATE IN STANDARD HOOKS.
- HORIZONTAL WALL REINFORCEMENT AND TEMPERATURE REINFORCEMENT SHALL LAP A MINIMUM OF 1.7Ld AT SPLICES. WALL DOWELS AND WALL BAR EXTENSIONS AND ALL STRESS SPLICES SHALL LAP A MINIMUM OF 1.7 Ld UNLESS OTHERWISE NOTED.
- PILASTERS SHALL HAVE DOWELS FROM FOUNDATIONS OR CONSTRUCTION BELOW OF SAME SIZE AND SPACING AS PILASTER VERTICAL STEEL. SEE FOOTING SCHEDULE.
- UNLESS OTHERWISE NOTED ON THE DRAWINGS, CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS SHALL NOT BE LESS THAN THE FOLLOWING:
 - STRUCTURAL MEMBERS, FOUNDATIONS, WALLS AND SUSPENDED SLABS -- 4000 PSI
 - SLABS ON GRADE -- 4000 PSI
 - LEAN CONCRETE OR GROUT FILL -- 2000 PSI
- UNLESS OTHERWISE SHOWN, THE COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS:
 - SLABS AND JOISTS
TOP AND BOTTOM OF FORMED SLABS FOR DRY CONDITION:
#14 AND #18 BARS -- 1 1/2"
#11 BARS AND SMALLER -- 1"
 - FORMED CONCRETE SURFACES EXPOSED TO EARTH, WATER OR WEATHER, AND OVER OR IN CONTACT WITH SEWAGE AND FOR BOTTOMS BEARING ON WORK MAT, OR SLABS SUPPORTING EARTH COVER:
ALL BARS -- 2"
 - BEAMS AND COLUMNS
FOR DRY CONDITIONS:
STIRRUPS, SPIRALS AND TIES -- 2"
PRINCIPAL REINFORCEMENT -- 2"
EXPOSED TO EARTH, WATER, SEWAGE OR WEATHER:
STIRRUPS AND TIES -- 2"
PRINCIPAL REINFORCEMENT -- 2 1/2"
 - WALLS
FOR DRY CONDITIONS:
#11 BARS AND SMALLER -- 1"
#14 AND #18 BARS -- 1 1/2"
FORMED CONCRETE SURFACES EXPOSED TO EARTH, WATER, SEWAGE, WEATHER, OR IN CONTACT WITH GROUND:
CIRCULAR TANKS WITH RING TENSION -- 2"
ALL OTHERS -- 2"
WALLS 12" OR OVER IN THICKNESS WITH POURS MORE THAN 10 FEET -- 2 1/2"
 - FLOORINGS AND BASE SLABS
AT FORMED SURFACES AND BOTTOMS BEARING ON CONCRETE WORK MAT -- 2"
AT UNFORMED SURFACES AND BOTTOMS IN CONTACT WITH EARTH -- 3"
TOP OF FOOTINGS -- SAME AS SLABS
OVER TOP OF PILES -- 2"
- HORIZONTAL AND VERTICAL CONSTRUCTION JOINTS SHOWN OR NOTED ON THE PLANS ARE RECOMMENDED. ANY DEVIATION FROM THOSE SHOWN SHALL HAVE APPROVAL OF THE ENGINEER.
- ANY STOP IN FRAMED CONCRETE WORK MUST BE MADE IN THE CENTER OF THE SPAN AND INCORPORATE AN APPROVED KEYWAY. REINFORCEMENT SHALL EXTEND THROUGH THESE JOINTS IF REQUIRED FOR CONTINUITY.
- USE TYPE "C2" JOINT FOR ALL CONSTRUCTION JOINTS IN WALLS AND SLABS BELOW GRADE WITHIN BUILDINGS AND WALLS WHICH SEPARATE AREAS OF SOIL OR LIQUID FROM PERMANENTLY DRY AREAS SUCH AS TUNNELS, GALLERIES, BASEMENT ROOMS, ETC. USE TYPE C1 JOINT AT ALL OTHER CONSTRUCTION JOINTS UNLESS OTHERWISE NOTED ON DRAWINGS.
- CONCRETE WALLS AND PARTITIONS SHALL BE POURED IN MAXIMUM LENGTHS OF 40 FEET BETWEEN VERTICAL CONSTRUCTION JOINTS.
- ALL CONCRETE SLABS OVER 8" IN THICKNESS, REINFORCED WITH BARS, AND POURED AGAINST SOIL SHALL BE POURED IN A STRIP PATTERN OF 40 FEET OR LESS IN EACH DIRECTION.
- ALL EXPOSED EDGES OF BEAMS, COLUMNS, SLABS AND WALLS SHALL BE CHAMFERED 3/4" UNLESS MASONRY OR OTHER MEMBERS ARE ERECTED FLUSH WITH THEM.
- REFER TO ARCHITECTURAL, PROCESS, MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL SLEEVES, PIPES, CONDUITS AND MISCELLANEOUS ANCHORING DEVICES TO BE INCORPORATED IN THE CONSTRUCTION.

STRUCTURAL STEEL

- STRUCTURAL STEEL SHALL CONFORM TO THE LATEST AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS". ALL STRUCTURAL STEEL SHALL BE A.S.T.M. A36.
- ELEVATIONS OF STEEL BEAMS SHOWN ON FRAMING PLANS REFER TO TOP OF FLANGE, UNLESS OTHERWISE NOTED.
- ALL BOLTED CONNECTIONS SHALL BE MADE WITH 3/4" DIAMETER A.S.T.M. A-325 BOLTS EXCEPT WHERE OTHERWISE SHOWN OR NOTED. ALL CONNECTIONS SHALL BE CAPABLE OF SUPPORTING ONE HALF THE MAXIMUM ALLOWABLE UNIFORM LOAD FOR INDICATED BEAM SIZE AND SPAN IN AISC MANUAL OF STEEL CONSTRUCTION EXCEPT AS OTHERWISE NOTED.
- FIELD CONNECTIONS SHALL BE BOLTED EXCEPT AS OTHERWISE SHOWN OR NOTED.
- ALL WELDING SHALL CONFORM TO THE LATEST SPECIFICATION OF THE AMERICAN WELDING SOCIETY. ALL WELDED CONNECTIONS SHALL BE MADE WITH AWS A5.1 OR A5.5 E70 XX ELECTRODE.
- ANCHOR BOLTS AND MISC. EMBEDDED STEEL -- A.S.T.M. A36.
- ALL EQUIPMENT ANCHOR BOLT DIMENSIONS AND LOCATIONS SHALL BE VERIFIED FROM CERTIFIED VENDOR DRAWINGS, PRIOR TO CONSTRUCTION.

FOUNDATIONS

- ALLOWABLE SOIL BEARING PRESSURE, EXCAVATION AND BACKFILL FOR FOUNDATIONS AND STRUCTURES SHALL BE AS RECOMMENDED IN THE GEOTECHNICAL REPORT.
- ALL EXCAVATIONS SHALL BE CARRIED OUT IN THE DRY, AND PROVISIONS SHALL BE MADE TO PREVENT THE BOTTOM OF ALL EXCAVATIONS AND SLABS ON GROUND FROM FREEZING OR FLOODING AT ALL TIMES.
- ALL FOUNDATIONS SHALL BE CONSTRUCTED IN EXCAVATIONS FREE OF STANDING WATER.
- BACKFILL MATERIAL, PLACING AND COMPACTION OF BACKFILL SHALL BE IN ACCORDANCE WITH THE DRAWINGS, AND THE CONTRACT SPECIFICATIONS.

**DEPARTMENT OF PUBLIC WORKS
CITY OF SUPERIOR, WISCONSIN**

**STRUCTURAL STANDARDS
NOTES AND DETAILS**

REVISIONS

NO.	DATE	DESCRIPTION	APPROVED
REVISIONS			

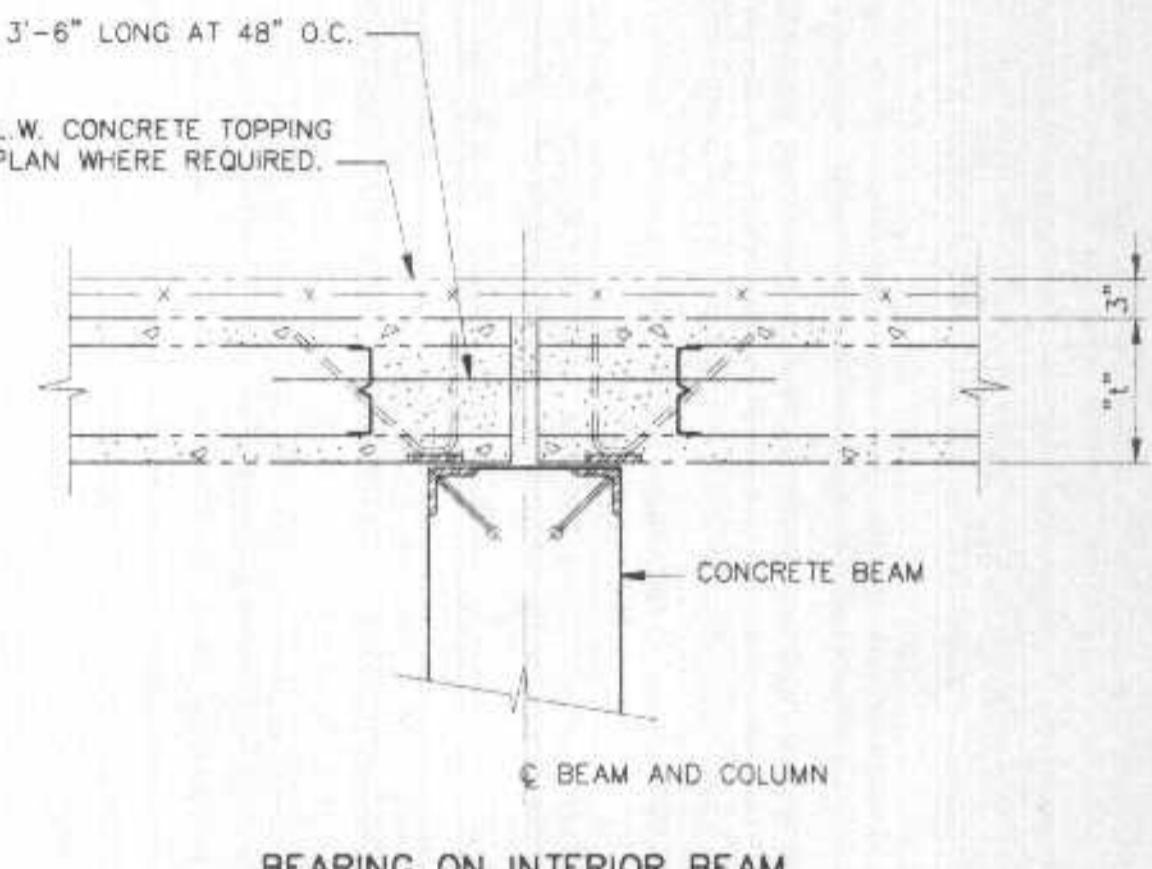
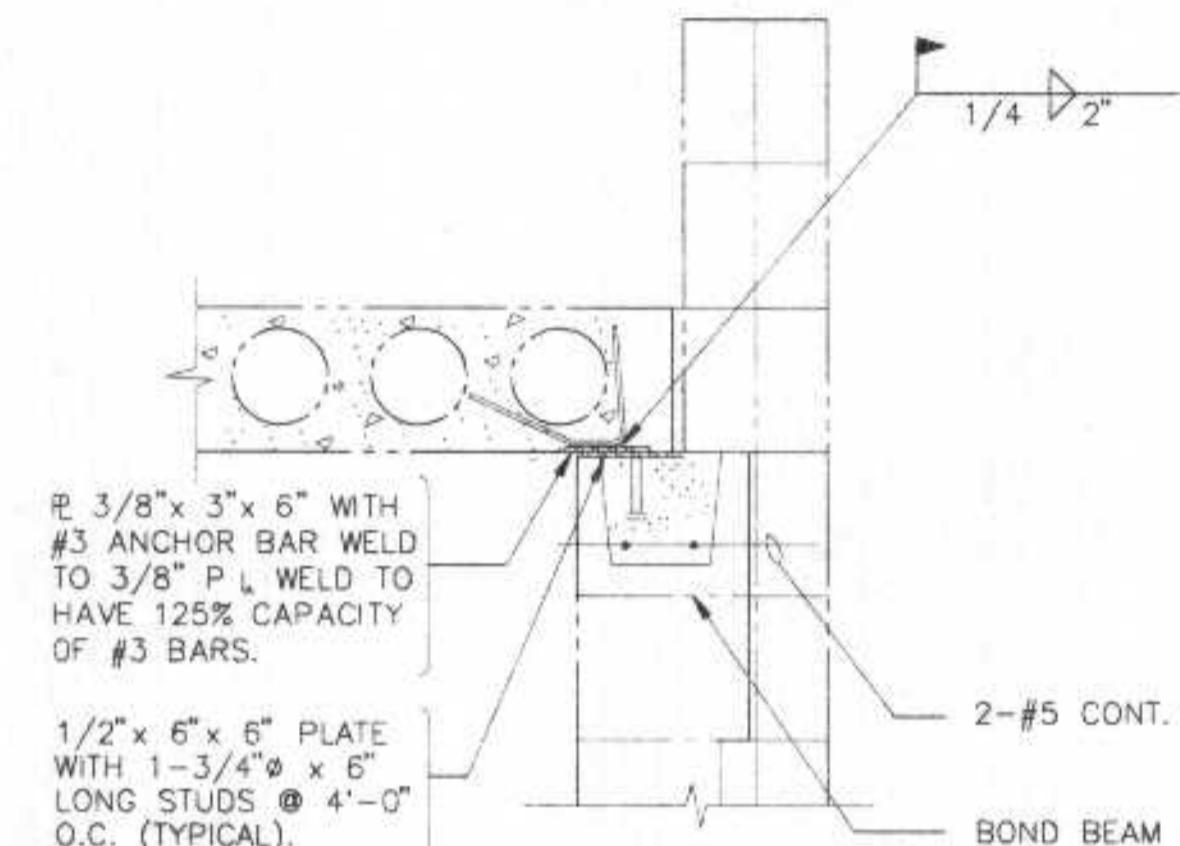
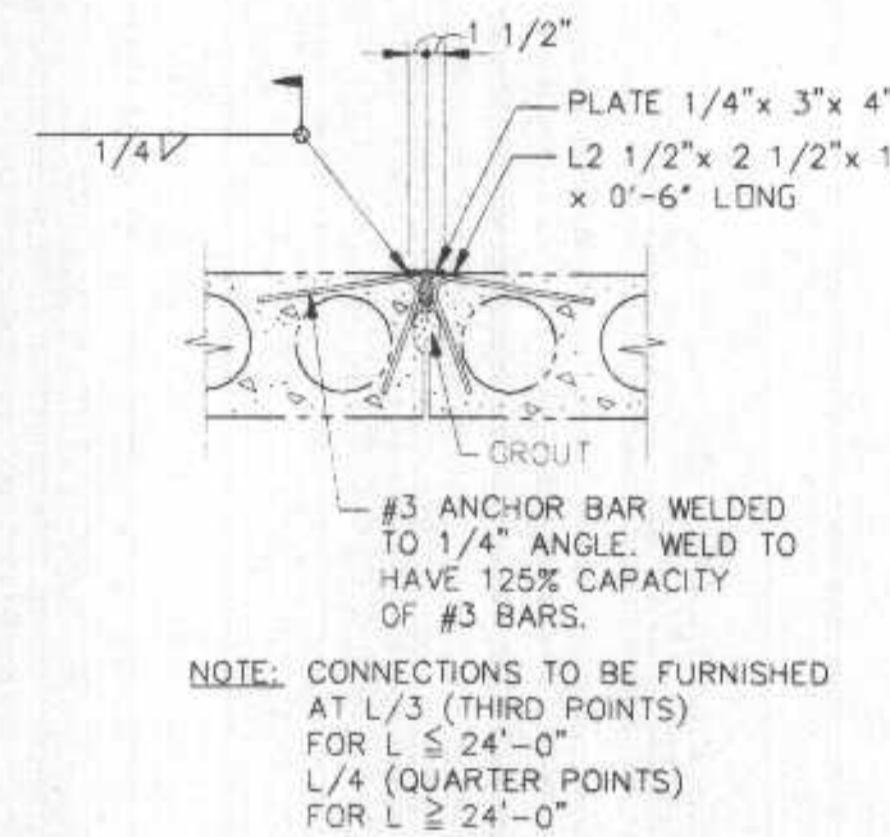
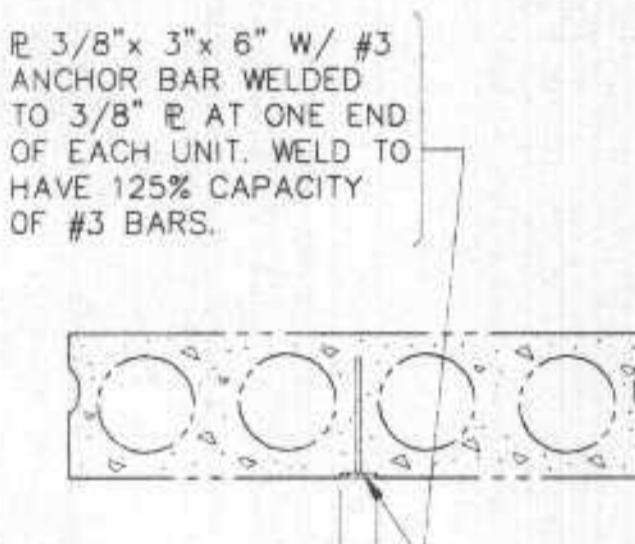
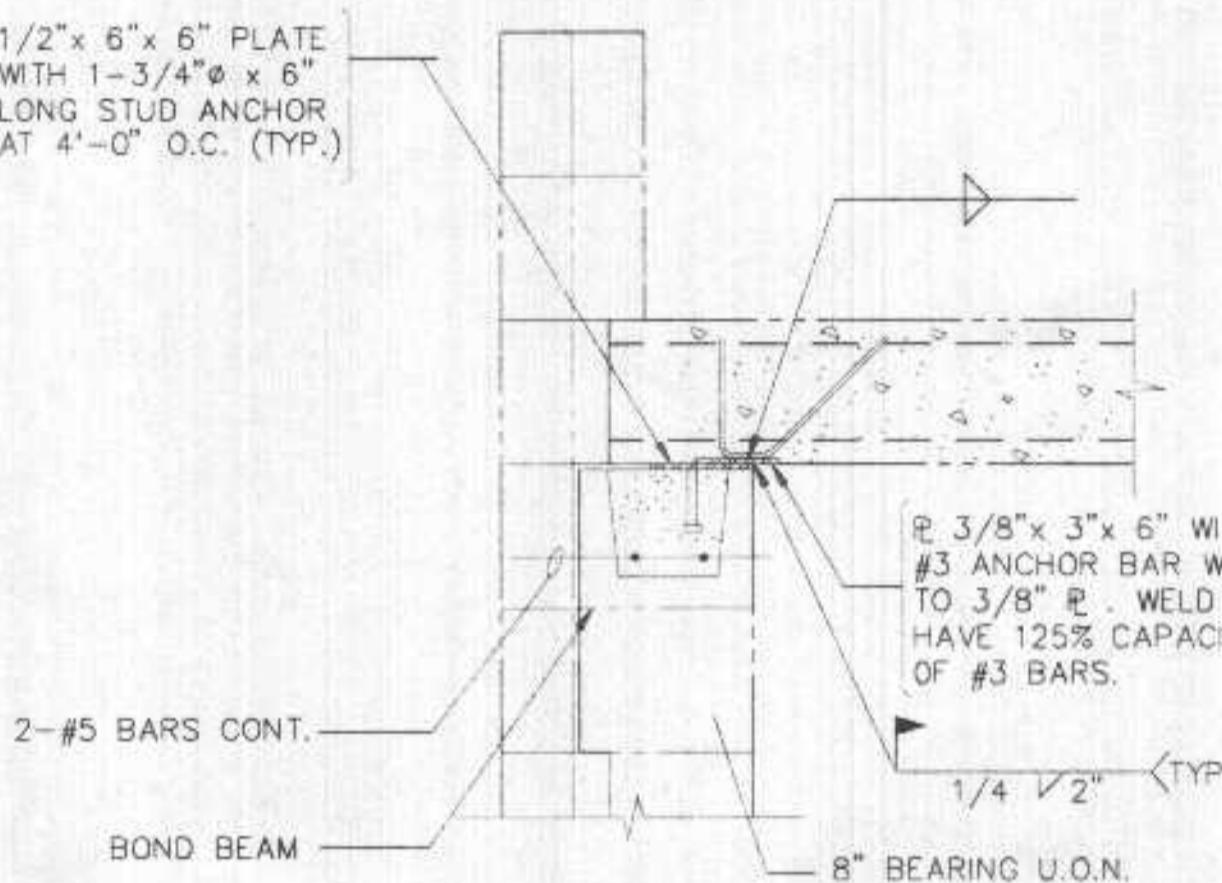
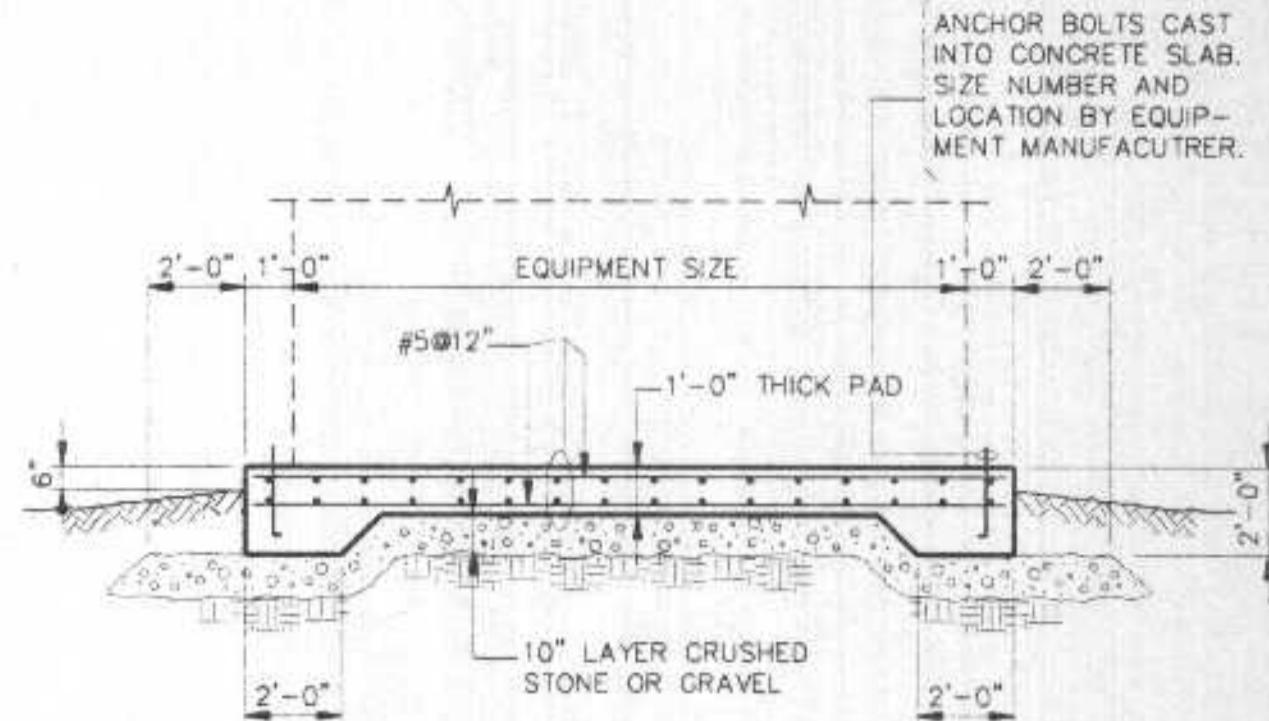
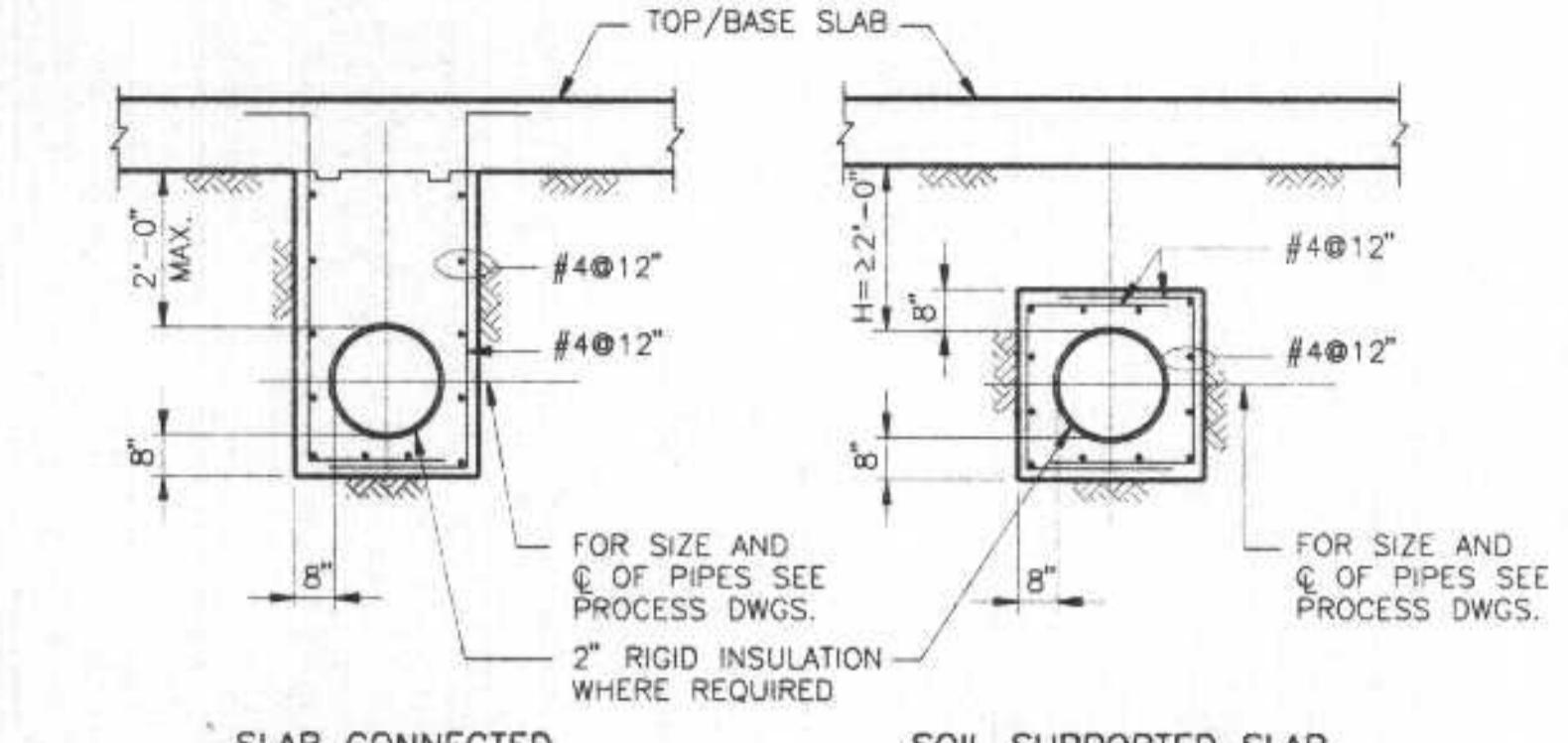
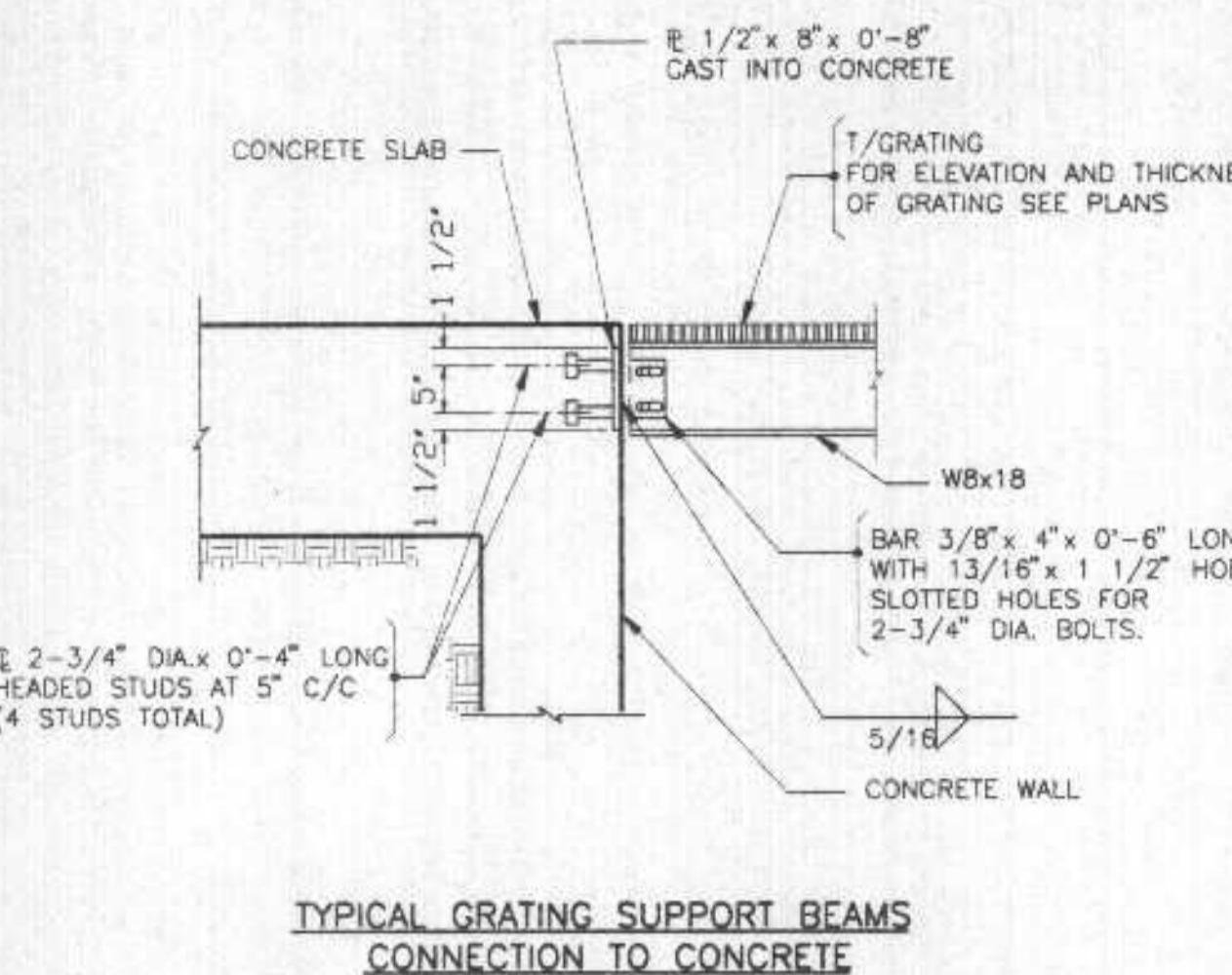
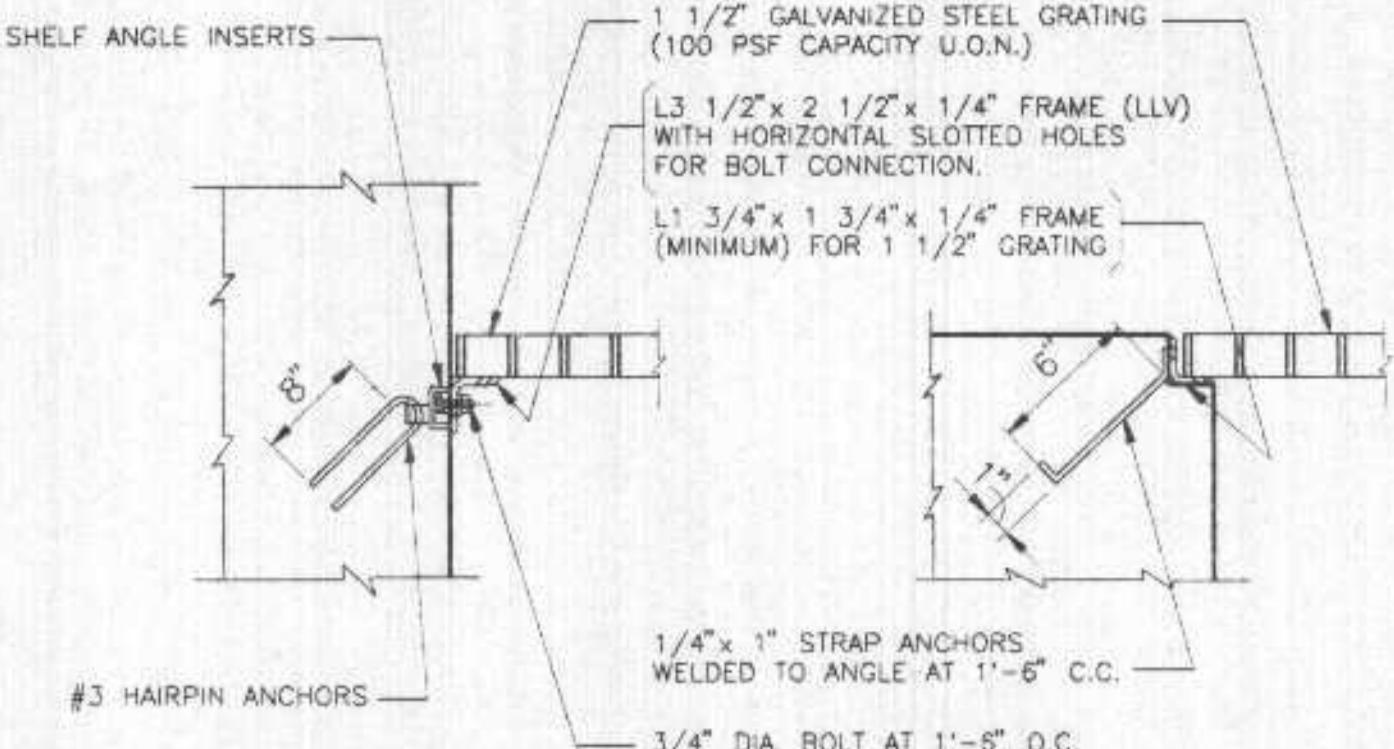
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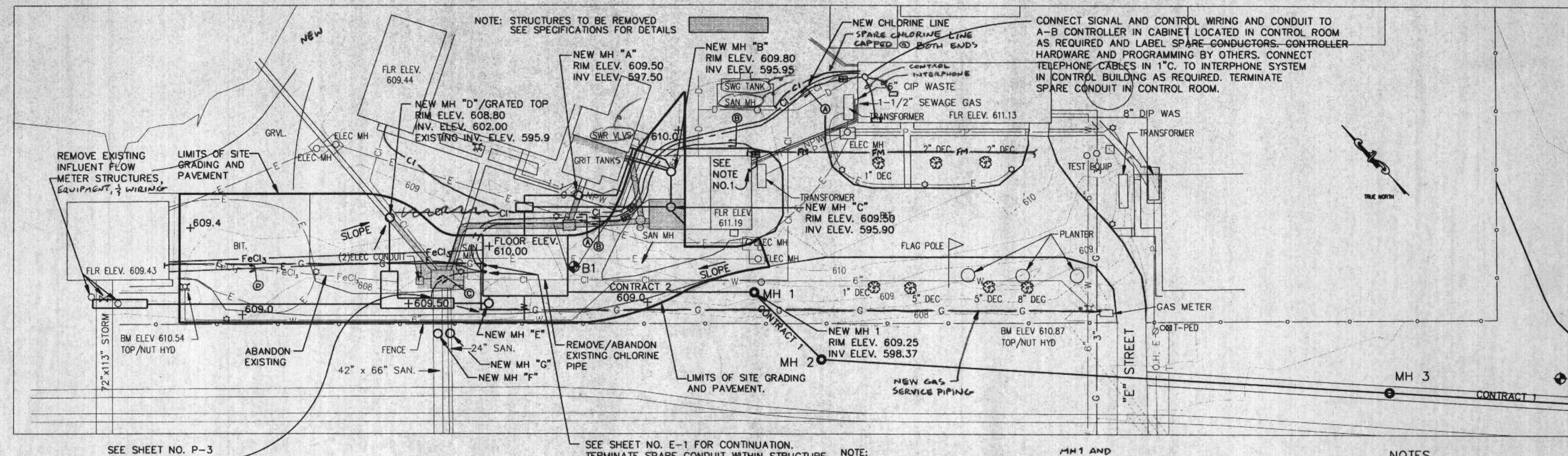
**SCALE
NO SCALE**

**CONSOER
TOWNSEND
ASSOCIATES**

ENGINEERING PLANNING MANAGEMENT

**SHEET XS-1
OF
RECORD MAP NO.
CT&A PROJECT NO. 3899-00**





SEE SHEET NO. P-3
FOR CONTINUATION

SEE SHEET NO. E-1 FOR CONTINUATION.
TERMINATE SPARE CONDUIT WITHIN STRUCTURE.

PROPOSED SITE PLAN

NOTE: CONSTRUCTION OF CONTRACT NO. 1 INCLUDES ALL PIPING AND STRUCTURES BETWEEN MANHOLE 1 AND DIVERSION STRUCTURE IN EAST 2ND STREET. CONTRACT NO. 2 WILL INCLUDE THE PIPING BETWEEN THE NEW SCREEN BUILDING AND MANHOLE 1 ON THE PLANT SITE.

NOTES

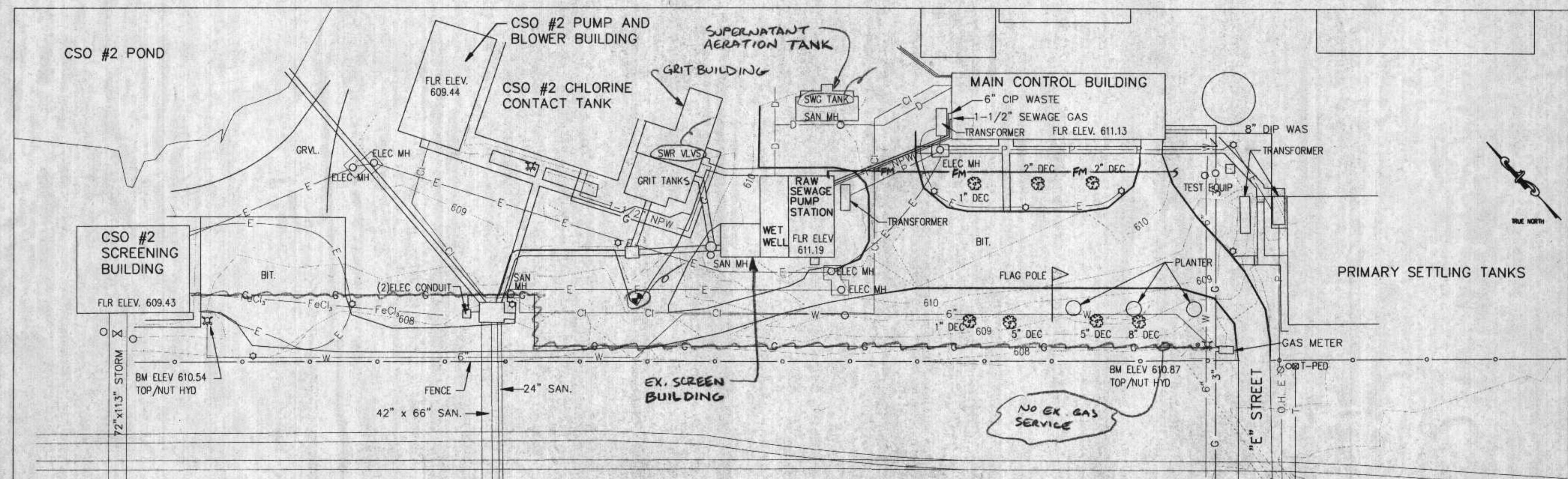
1. INSTALL A 150 A CIRCUIT BREAKER IN DISTRIBUTION CONTROL CENTER DCC #3 TO FEED SCREENING BUILDING. CONNECT 3#2/0, 1#2/0 NEUT, AND 1#2/0 GND. - 4°C. TO DCC #3 AS REQUIRED. TERMINATE SPARE CONDUIT WITHIN BUILDING STRUCTURE.

LEGEND

NON-POTABLE PLANT WATER	NPW
CAST IRON PIPE	C.I.P.
DUCTILE IRON PIPE	D.I.P.
WASTE ACTIVATED SLUDGE	W.A.S.
WROUGHT IRON PIPE	W.I.
PRIMARY SERVICE DUCT	P
ELECTRICAL	E
CHLORINE LINE	CI
WATER	W
GAS DRAIN	G
FORCEMAIN SEWER	D
SANITARY SEWER	FM
PROPOSED RELIEF SEWER	==
PROPOSED GRADE ELEVATION	+610.00
PROPOSED GAS	G

ELECTRICAL DUCTBANK SCHEDULE

(A)	4°C. (SPARE)
	10-2/C SIG. CA. - 4°C.
	36#14 - 4°C.
	2 TELEPHONE CABLES - 4°C.
	3#2/0, 1#2/0 NEUT. AND 1#2/0 GND. - 4°C.
(B)	4°C. (SPARE)
	2-2/C SIG. CA. - 2°C.
	2" SPARE CONDUIT



EXISTING SITE PLAN

PRELIMINARY

JUL 22 1994

DESIGNED	TN
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DATE	APRIL, 1994
REVISIONS	

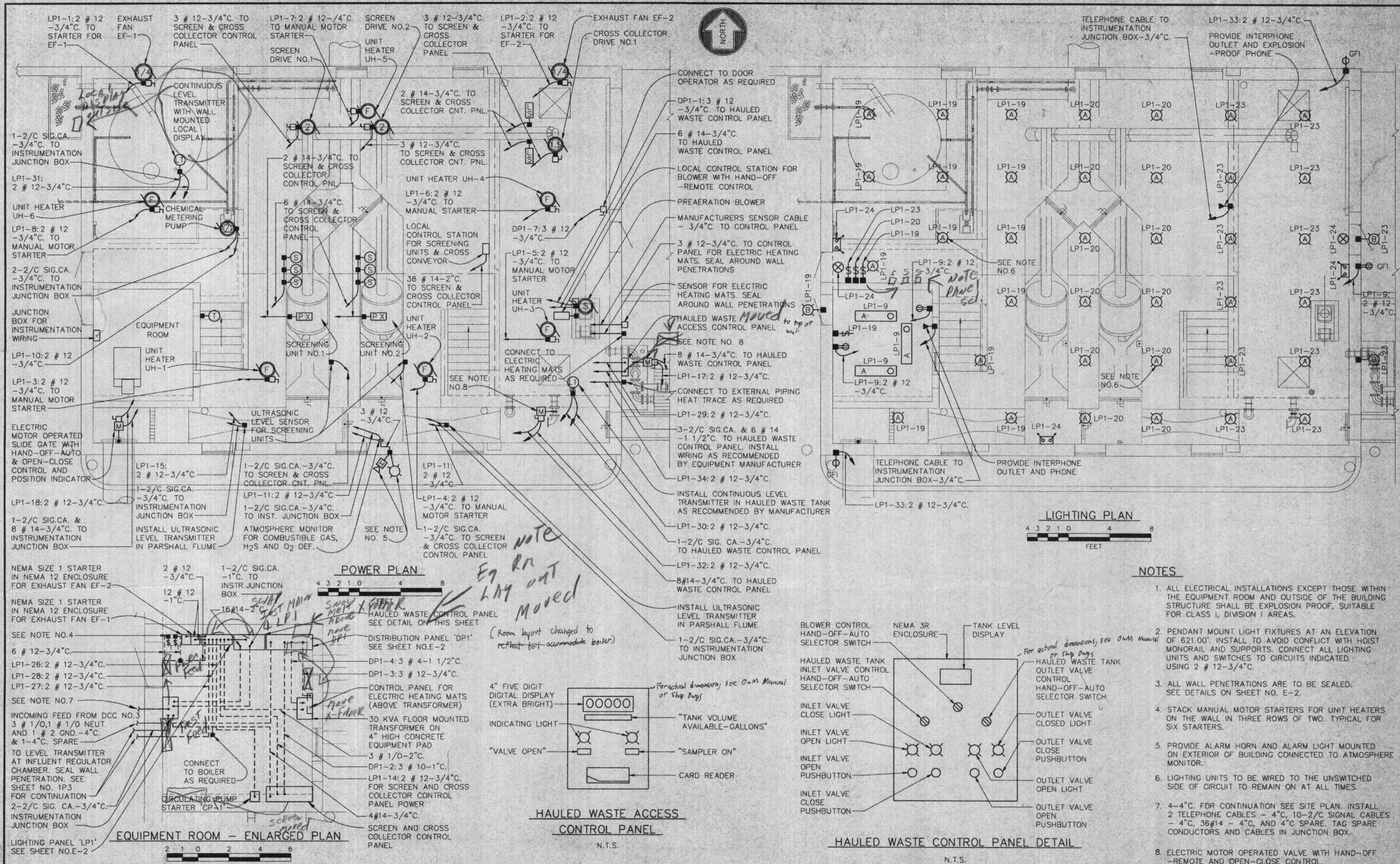
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DEPARTMENT OF PUBLIC WORKS
CITY OF SUPERIOR, WISCONSIN

FISHER TOWNSEND
ASSOCIATES
ENGINEERING PLANNING MANAGEMENT
2855 ANTHONY LANE SOUTH, SUITE 145
MINNEAPOLIS, MN 55416-3295

SUPERIOR WASTEWATER TREATMENT PLANT
UNDERGROUND UTILITY SITE MAP

SHEET
OF
RECORD MAP NO.
CT&A PROJECT NO. 3899-00



DESIGNED	E.J.V.	SCALE	DEPARTMENT OF PUBLIC WORKS CITY OF SUPERIOR, WISCONSIN	SCREEN BUILDING ELECTRICAL PLANS	SHEET E-1
DRAWN	K.C.M.	AS NOTED			OF 3
CHECKED	J.C.				RECORD MAP NO. CT&A PROJECT NO. 3899-02
APPROVED					
DATE	APRIL, 1994				
REVISIONS					

