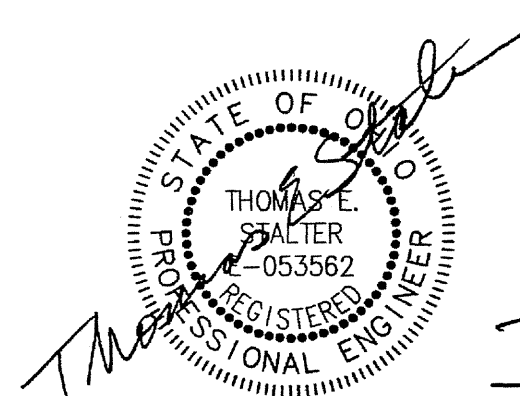
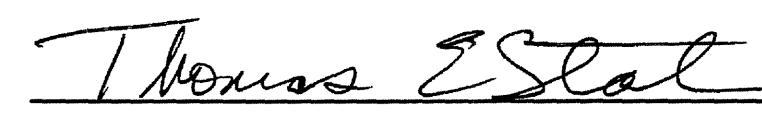


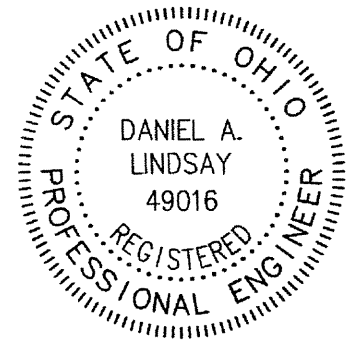
CONTRACT A - CSO RETENTION BASIN, PUMP STATION AND MAINTENANCE BUILDING CONTRACT B - CSO INTERCEPTOR SEWER VILLAGE OF OAK HARBOR OTTAWA COUNTY, OHIO 2007


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DESIGN ENGINEERS

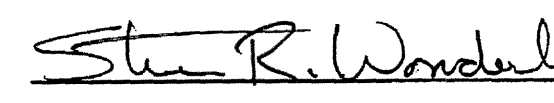


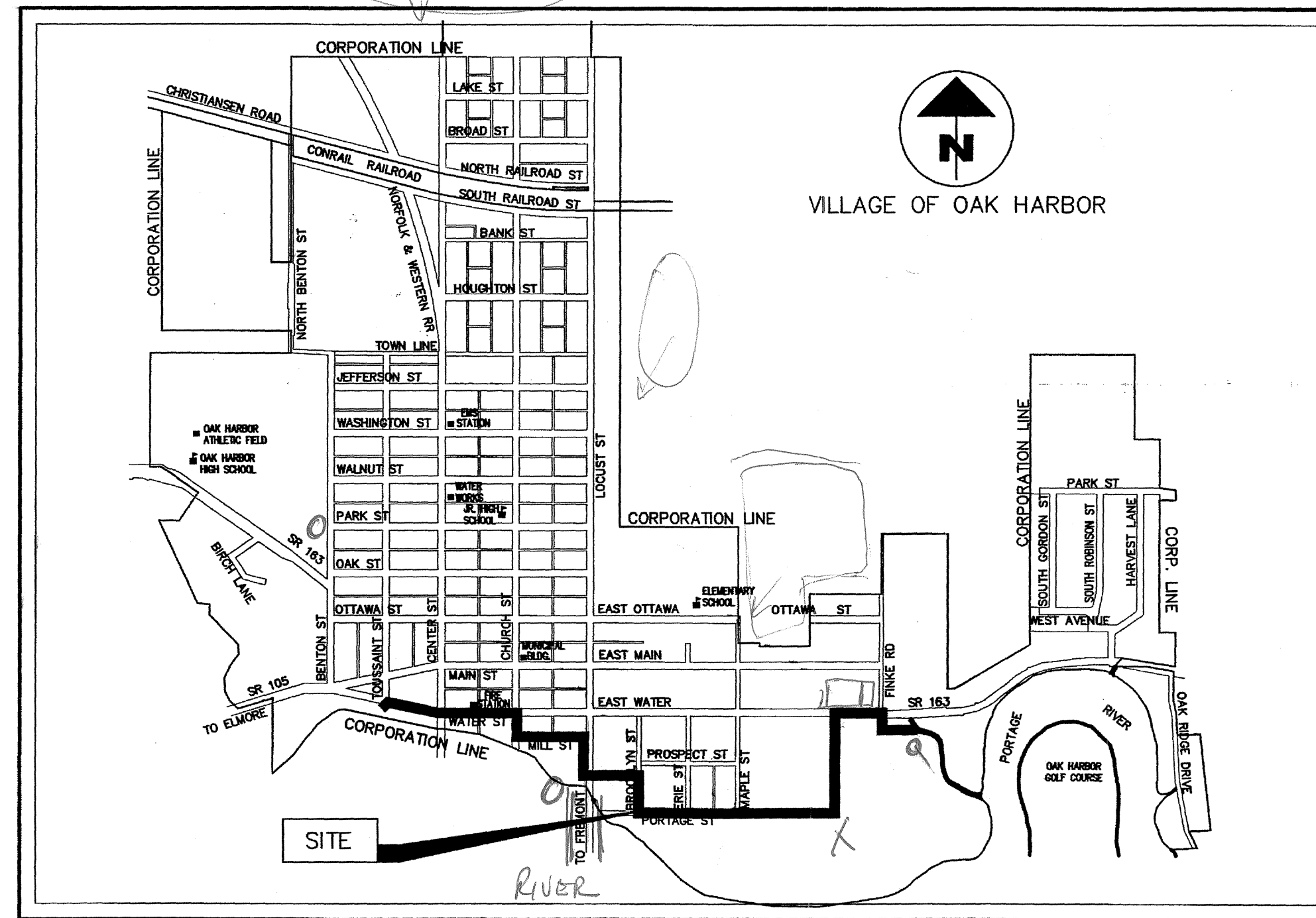

 THOMAS E. STALTER, P.E. - 53562 DATE 9/19/06




 DANIEL A. LINDSAY, P.E. - 49016 DATE 9/19/06




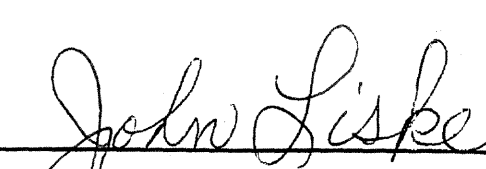

 STEVEN ROBERT WONDERLY, P.E. - 45621 DATE 9/19/2006

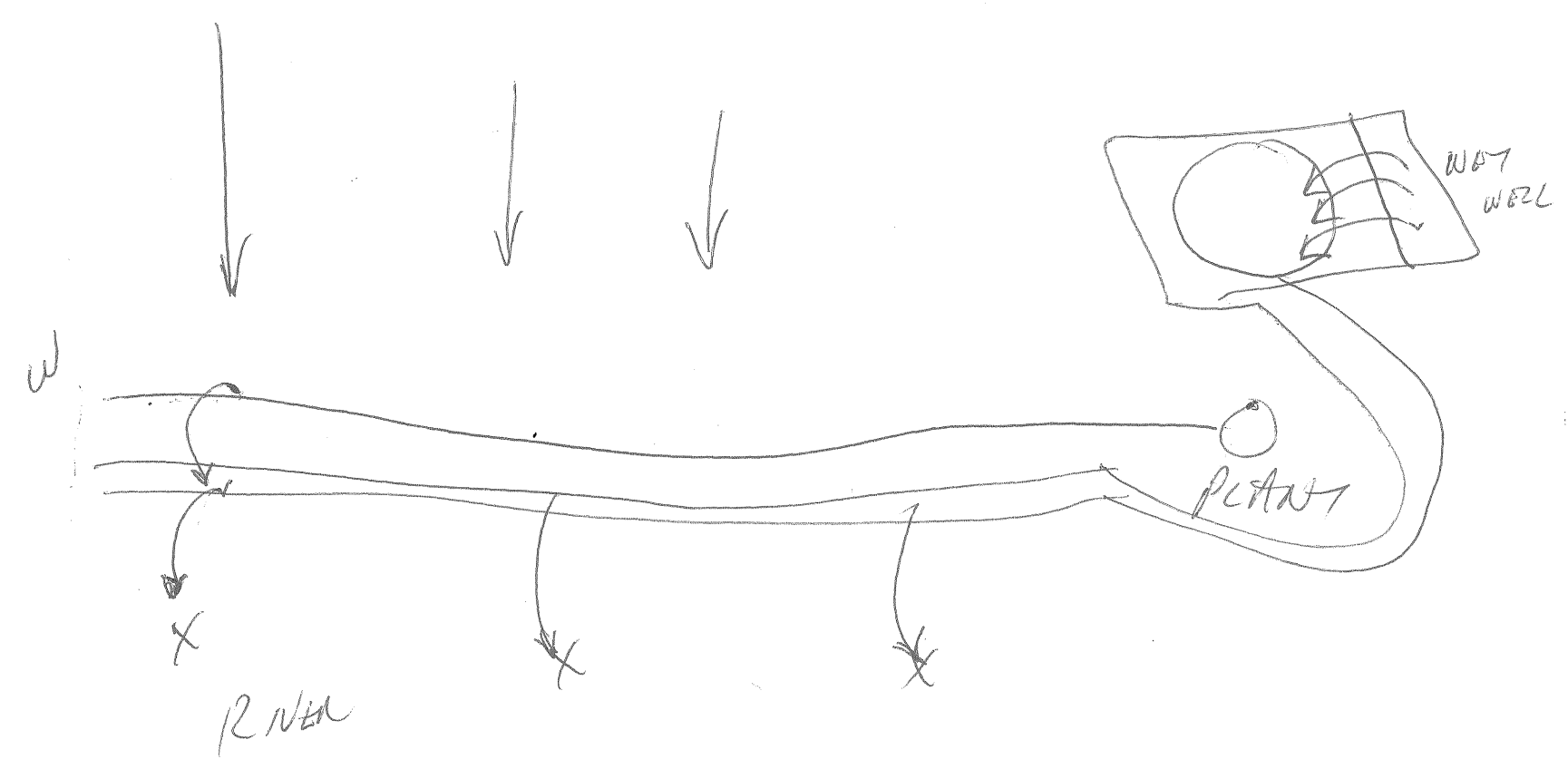


SITE MAP
NOT TO SCALE

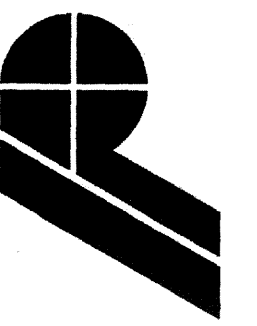
APPROVALS

APPROVED:  DATE 09-08-2006
 MAYOR - VILLAGE OF OAK HARBOR, OHIO

APPROVED:  DATE 09-08-06
 VILLAGE ADMINISTRATOR



POGGEMEYER DESIGN GROUP, INC.
 ARCHITECTS ENGINEERS PLANNERS
 1168 NORTH MAIN STREET (419) 352-7537 BOWLING GREEN, OHIO 43402



SET NO.

44

ISSUANCE

DATE	DESCRIPTION

REVISION

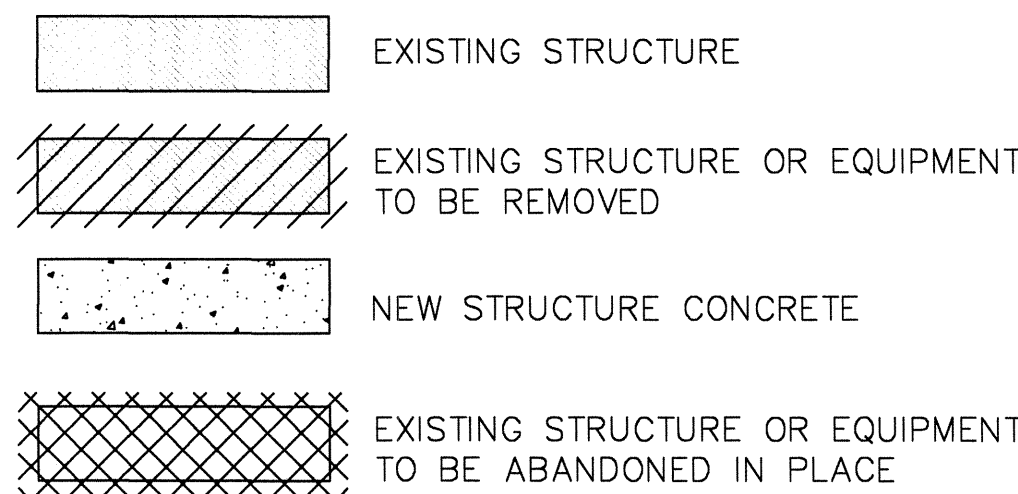
DATE	DESCRIPTION

C. S. O.
IMPROVEMENT
VILLAGE OF
OAK HARBOR
OTTAWA COUNTY
OHIO

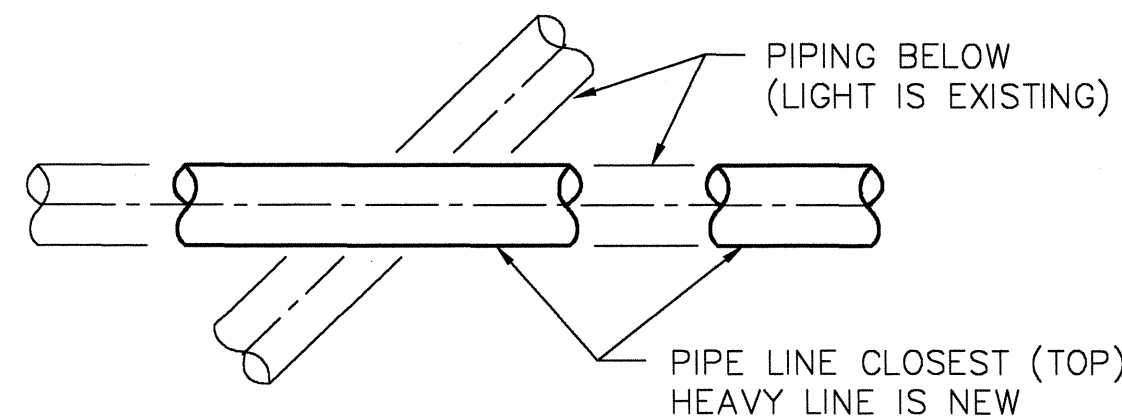
PDG NO. 1590-120

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BUILDING LEGEND



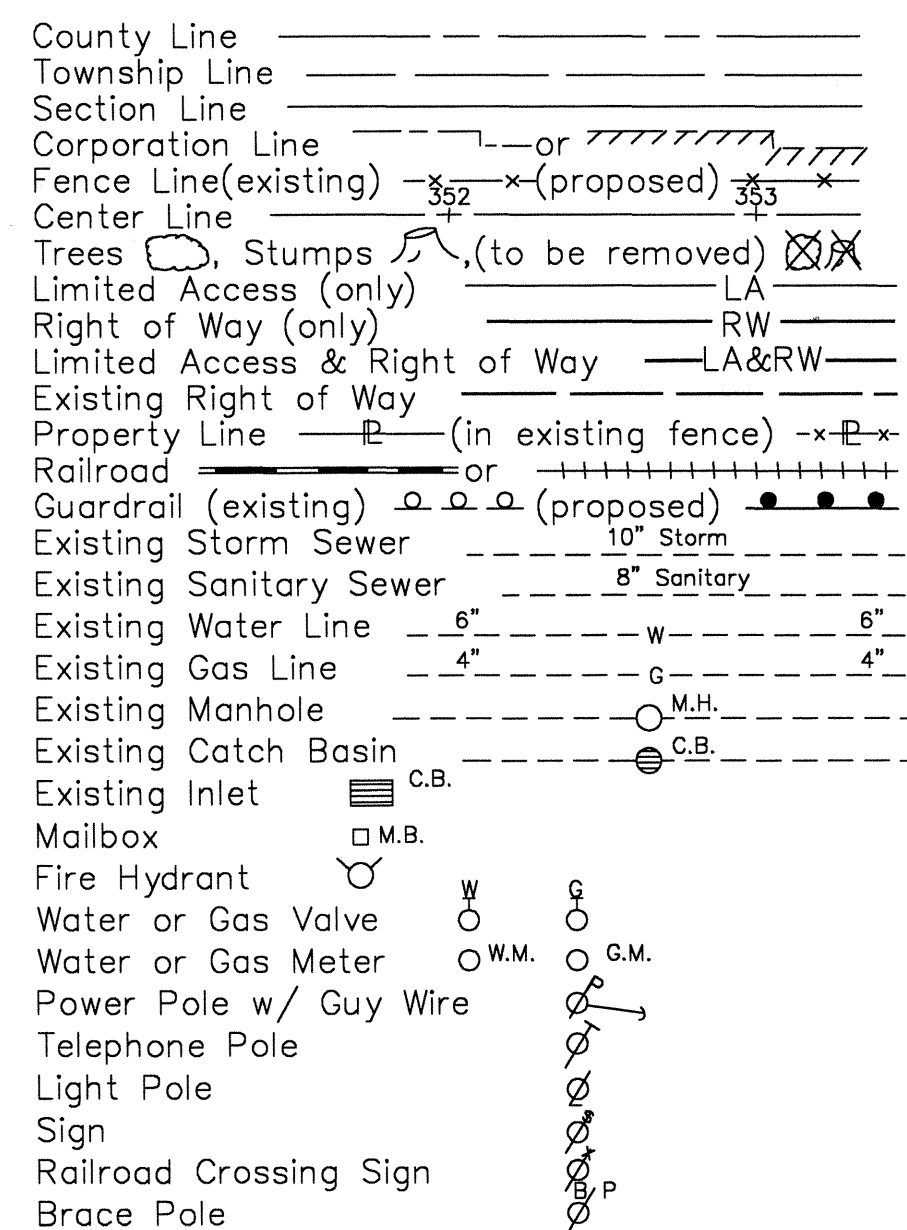
PIPING LEGEND



NEW PIPING AND EQUIPMENT UNDER CONTRACT LABEL "NEW" UNLESS OTHERWISE NOTED.

———— PIPING ABOVE GRADE (SOLID)
 - - - - - PIPING BELOW GRADE (HIDDEN)

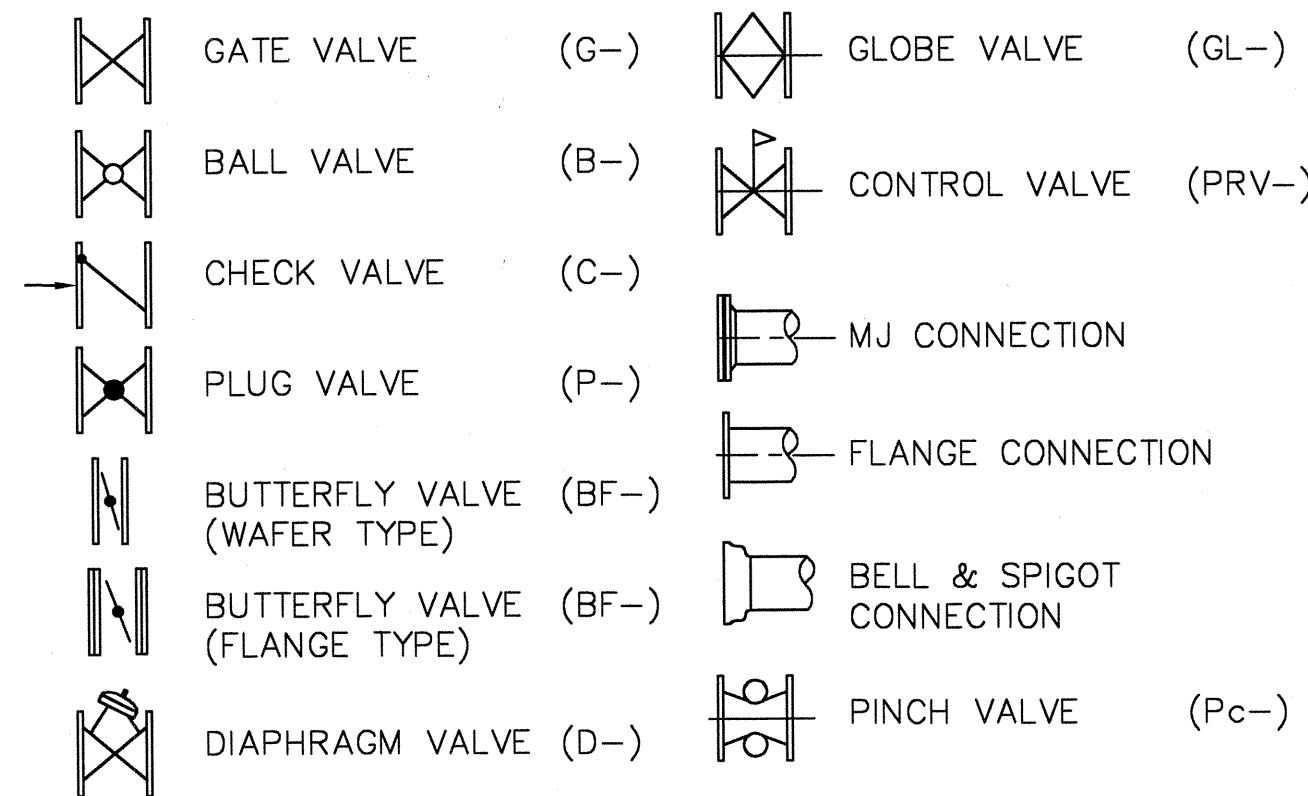
TOPOGRAPHY LEGEND



PROJECT GENERAL NOTES:

- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, ELEVATIONS, TYPE OF CONNECTIONS, MATERIALS, MECHANICAL AND ELECTRICAL INTERFACING AND ALL UTILITIES IN THE AREA BY MEANS OF PROBING, EXCAVATING OR OTHER ACCURATE METHODS PRIOR TO COMMENCING CONSTRUCTION. DRAWINGS ARE NOT TO GUARANTEED TO BE ACCURATE. CONTRACTOR TO SHORE OR SUPPORT UTILITIES OR STRUCTURES AS REQUIRED WITHOUT ADDITIONAL COST TO THE OWNER. COST FOR LOCATING UTILITIES SHALL BE INCLUDED IN THE PROJECT ORIGINAL BID PRICE.
- ALL PIPING SHALL BE SUPPORTED PER SPECIFICATIONS. GENERAL CONTRACTOR SHALL DETAIL, FABRICATE AND INSTALL PIPE SUPPORTS AS REQUIRED.
- DUCTILE IRON PIPE (PRESSURE LINE) BELOW SLABS SHALL HAVE RETAINER GLANDS UNLESS OTHERWISE NOTED.
- CONTRACTOR TO COORDINATE AND APPLY STANDARD MISCELLANEOUS DETAILS AS REQUIRED.
- ALL PIPE INSTALLATIONS THRU EXISTING & PRE-CAST STRUCTURES SHALL BE DONE BY USING A LINK-SEAL ASSEMBLY OR EQUAL AND WITH S.S.T. HARDWARE. IN SURFACES EXPOSED TO WATER CONTRACTOR TO GROUT SMOOTH W/ NONE-SHRINK GROUT CAVITY AT L-SEAL.
- PROPOSED WORK UNDER THIS CONTRACT IS LABELED "NEW" UNLESS NOTED OTHERWISE. WHERE THERE IS A COMBINATION OF PROPOSED AND EXISTING CONDITIONS WORK IS LABEL "NEW" AND EXISTING NOT LABEL. IN PROPOSED BUILDING ALL EQUIPMENT IS "NEW" AND PROPOSED WORK IS NOT LABEL "NEW".
- ALL MATERIALS IN CONTACT WITH POTABLE WATER SHALL MEET THE REQUIREMENTS OF NSF STANDARD 60 AND 61.

VALVE SYMBOL LEGEND



- NOTE 1.) VALVE DESIGNATION AND TYPE APPLIES TO SCALE DRAWINGS ONLY. SCHEMATIC DIAGRAMS DO NOT REPRESENT ALL TYPES.
- 2.) PROVIDE GEARED AND HANDWHEEL ACTUATOR FOR VALVES 6" AND LARGER UNLESS OTHERWISE NOTED. PROVIDE CHAIN WHEEL ON VALVES HIGHER THAN SIX (6) FEET.

PIPING ABBREVIATIONS

MATERIAL	SERVICE
BSP BLACK STEEL PIPE	NG NATURAL GAS
CMP CORRUGATED METAL PIPE	CW CITY WATER
CPP CONCRETE PRESSURE PIPE (PRESTRESSED)	HW HOT CITY WATER
CPVC CHLORINATED POLYVINYL CHLORIDE PIPE	NPW PLANT WATER (NON-DRINKABLE)
Cu COPPER TUBING OR PIPING	PW POTABLE WATER
DI DUCTILE IRON PIPE	CA COMPRESSED AIR
GS GALVANIZED STEEL PIPE	SS SANITARY SEWER
CP CONCRETE PIPE (PLAIN)	RW RAW WATER
PVC POLYVINYL CHLORIDE PIPE	DW DIGESTED WATER
ST STEEL PIPE	SL SLUDGE
S.ST STAINLESS STEEL PIPE	PE PLANT EFFLUENT
PE POLYETHYLENE	
FRP FIBERGLASS REINFORCED POLYESTER	

VALVE SCHEDULE OPERATOR DESIGNATION

OL LEVER AND WEIGHT OR SPRING	C CHAIN
FB FLOOR BOX	L LEVER
TW TEE WRENCH	VB VALVE BOX
G GEAR	BG BEVEL GEAR
HW HANDWHEEL	EB EXTENDED BONNET
MO MOTOR OPERATED	PN PNEUMATIC OPERATED

- INSTALLATION NOTES:
- VALVES INSIDE BUILDINGS SHALL BE OF FLANGE TYPE
 - VALVES UNDERGROUND INSTALLATION SHALL BE MECHANICAL JOINT UNLESS NOTED OTHERWISE
 - VALVES SHALL BE INSTALLED WITH OPERATOR ON THE VERTICAL OR HORIZONTAL POSITION. CONTRACTOR TO CONSULT WITH THE ENGINEER FOR ANY OTHER INSTALLATION ORIENTATION.
 - ALL CHECK VALVES SHALL BE INSTALLED ON THE HORIZONTAL OR VERTICAL POSITION UNLESS OTHERWISE NOTED.

UNDERGROUND UTILITIES

TWO WORKING DAYS
BEFORE YOU DIG
 Call 800-362-2764 (Toll Free)
 OHIO UTILITIES PROTECTION SERVICE
 NON-MEMBERS
 MUST BE CALLED DIRECTLY

PUMP STATION STRUCTURE

OCCUPANCY GROUP:	F-2
CONSTRUCTION TYPE:	28
SQUARE FOOTAGE	
ALLOWABLE (RESTRICTIONS BASED ON USE GROUP F-2)	
BASE (TABLE 503)	23,000 SQ.FT.
OPEN PERIMETER	8,455 SQ.FT.
FIRE SUPPRESSION	0 SQ.FT.
TOTAL ALLOWABLE	23,455 SQ.FT.
ACTUAL PROPOSED:	
NEW CONSTRUCTION	870 SQ.FT.
EXISTING	0 SQ.FT.
TOTAL PROPOSED	870 SQ.FT.
OCCUPANT LOAD:	N/A-NON-OCCUPIED
STRUCTURAL LOADS:	SEE STRUCTURAL DRAWING

MAINTENANCE BUILDING

OCCUPANCY GROUP:	S-1
CONSTRUCTION TYPE:	58
SQUARE FOOTAGE	
ALLOWABLE (RESTRICTIONS BASED ON USE GROUP S-1)	
BASE (TABLE 503)	9,000
OPEN PERIMETER	6,750
FIRE SUPPRESSION	0
TOTAL ALLOWABLE	15,750
ACTUAL PROPOSED:	
NEW CONSTRUCTION	6,000
EXISTING	0
TOTAL PROPOSED	6,000
OCCUPANT LOAD:	6,000 SF @ 300 SF/ OCC = OCCUPANTS
STRUCTURAL LOADS:	SEE STRUCTURAL DRAWING

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4.	EQUALIZATION BASIN SITE PLAN
5.	MAINTENANCE BUILDING SITE PLAN
6.	DRIVEWAY IMPROVEMENT PLAN
7.	PUMP STATION FOUNDATION PLAN
8.	PUMP STATION TOP PLAN AT ELEVATIONS 592.25
9.	PUMP STATION — SECTION 1 AND DETAILS
10.	PUMP STATION — SECTIONS 2 AND 3
11.	PUMP STATION — SECTIONS 4, 5 AND DETAILS
12.	EQUALIZATION BASIN MIXER LOCATION PLAN
13.	EQUALIZATION BASIN SECTIONS AND DETAILS
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17.	MAINTENANCE BUILDING ROOF PLAN SECTION AND SCHEDULES
18.	FINAL SETTLING TANK RENOVATION PLAN SECTION AND DETAILS
19.	STRUCTURAL DETAILS AND GENERAL NOTES
20.	STRUCTURAL DETAILS
21.	TRENCH AND PIPING DETAILS
M0.1	MAINTENANCE BUILDING — MECHANICAL NOTES, SCHEDULES, AND SCHEMATICS
M1.1	MAINTENANCE BUILDING — MECHANICAL PLANS
M2.1	MAINTENANCE BUILDING — PIPING SCHEMATICS
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E5	PUMP STATION ELEVATION AND DETAILS
E6	MAINTENANCE BUILDING SCHEDULES AND DIAGRAMS
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5.	CHURCH STREET PLAN & PROFILE 6+00-11+00
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7.	LOCUST STREET PLAN & PROFILE 12+00-19+00
8.	EASEMENT PLAN & PROFILE 9+00-15+00
9.	BROOKLYN STREET PLAN & PROFILE 9+00-15+00
10.	PORTAGE STREET PLAN & PROFILE 19+00-30+00
11.	PORTAGE STREET PLAN & PROFILE 30+00-39+00
12.	VILLAGE PROPERTY PLAN & PROFILE 9+00-20+00
13.	WATER STREET PLAN & PROFILE 54+00-64+00
14.	C.S.O. DETAILS
15.	C.S.O. DETAILS
16.	SEWER DETAILS
17.	WATERLINE DETAILS
SWP3-1A	SWPPP PLAN FOR INTERCEPTOR SEWER
SWP-2A	SWPPP FOR INTERCEPTOR SEWER



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 1168 NORTH MAIN STREET
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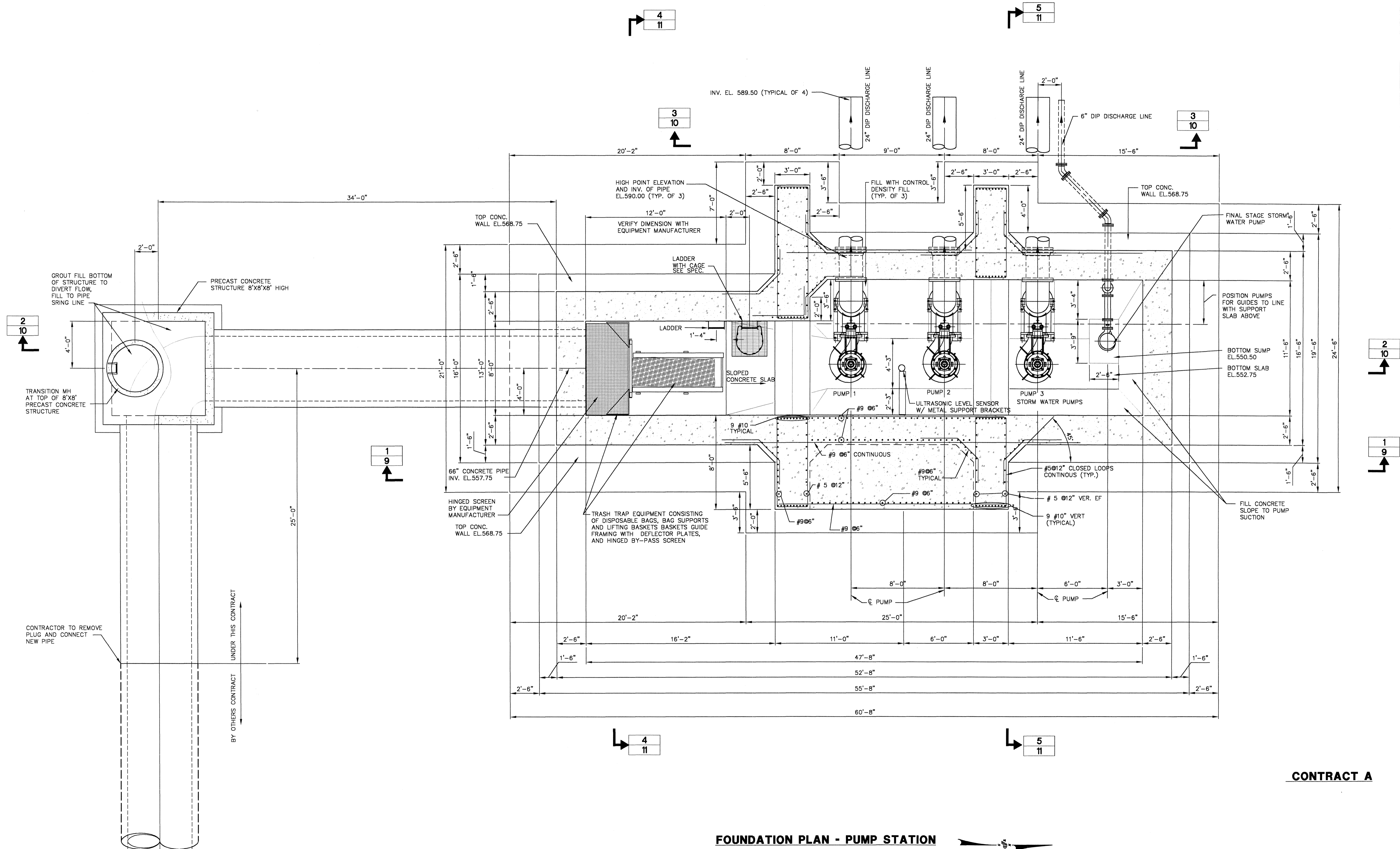
**CSO IMPROVEMENTS
 E.Q. BASIN AND PUMP STATION
 VILLAGE OF OAK HARBOR, OHIO**

**LEGENDS
 AND
 INDEX**

DRAWN BY	CHECKED BY
W.M.V.	S.R.W.
REVISION	

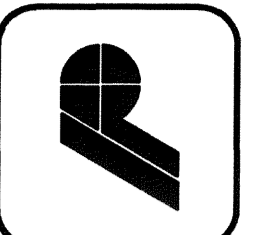
2
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 32
 JOB NUMBER
 1590-120

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FOUNDATION PLAN - PUMP STATION
SCALE 1/4" = 1'-0"

CONTRACT A



POGEMEYER DESIGN GROUP, INC.
ARCHITECTS
1168 NORTH MAIN STREET
BOWLING GREEN, OHIO 43402
PLANNERS
(419) 352-7537

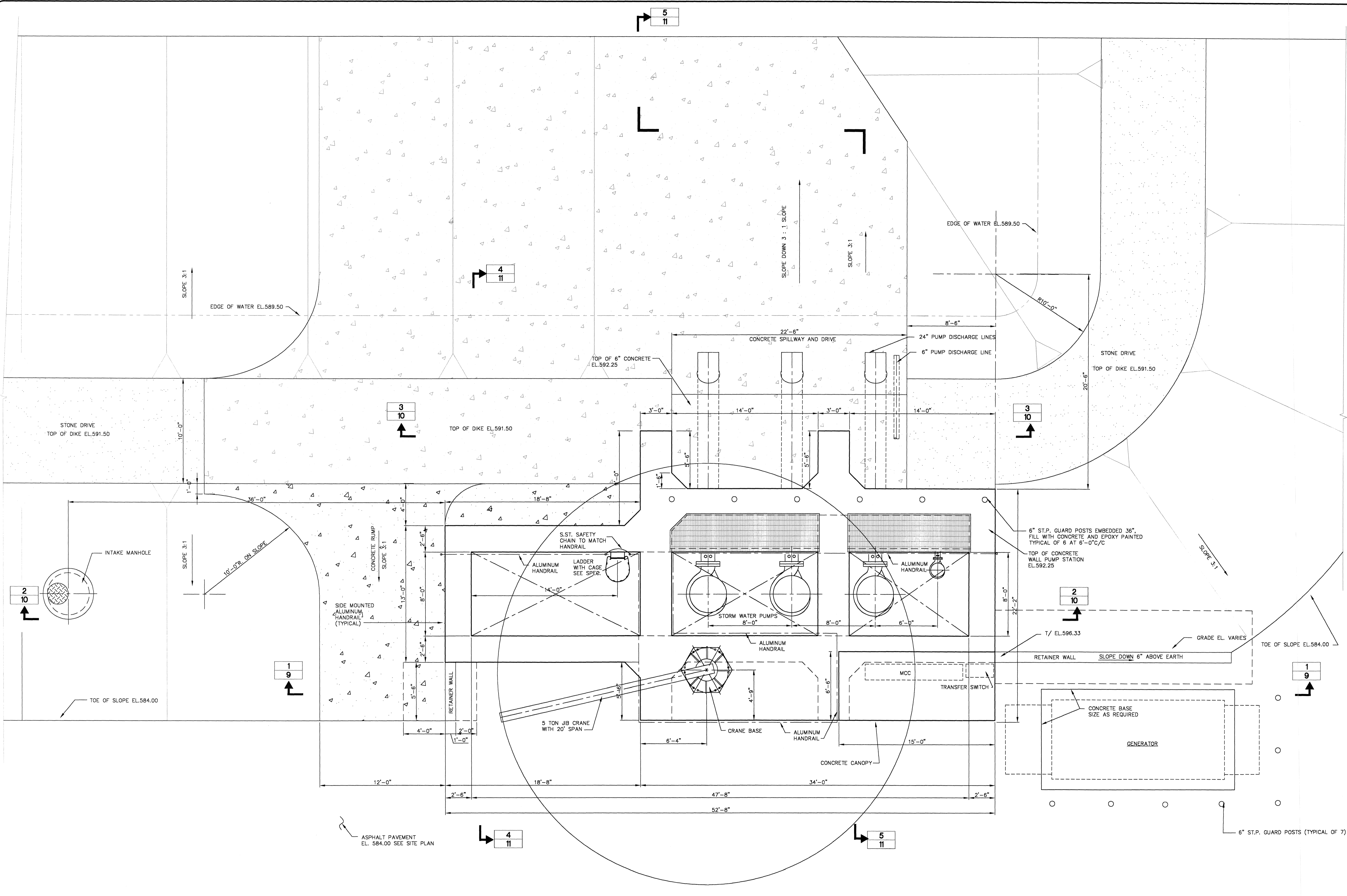
**C.S.O. IMPROVEMENTS
CSO BASIN AND PUMP STATION
VILLAGE OF OAK HARBOR, OHIO**

**FOUNDATION
PLAN**

DRAWN BY: W.M.V.
CHECKED BY: S.R.W.
REVISION

7
OF
32
JOB NUMBER
1590-120

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TOP PLAN PUMP STATION

SCALE 1/4" = 1'-0"

CONTRACT A



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 ARCHITECTS ENGINEERS PLANNERS
 1168 NORTH MAIN STREET BOWLING GREEN, OHIO 43402
 (419) 352-7537

**CSO IMPROVEMENTS
 CSO BASIN AND PUMP STATION
 VILLAGE OF OAK HARBOR, OHIO**

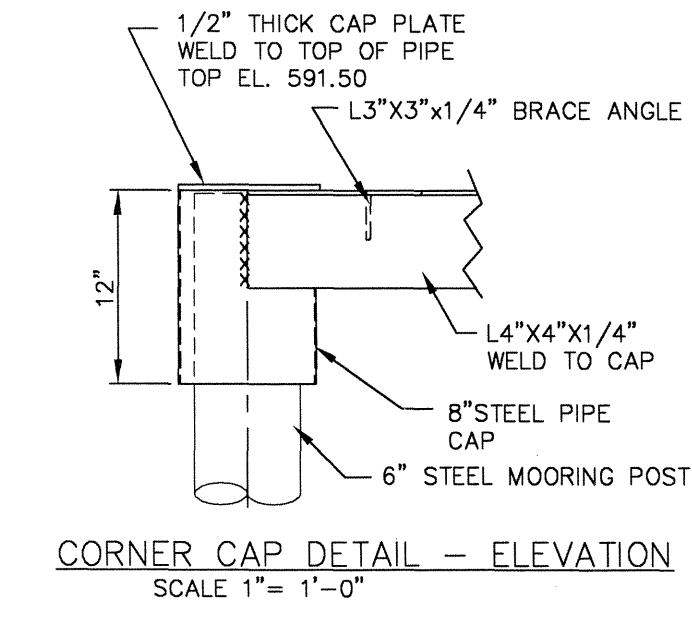
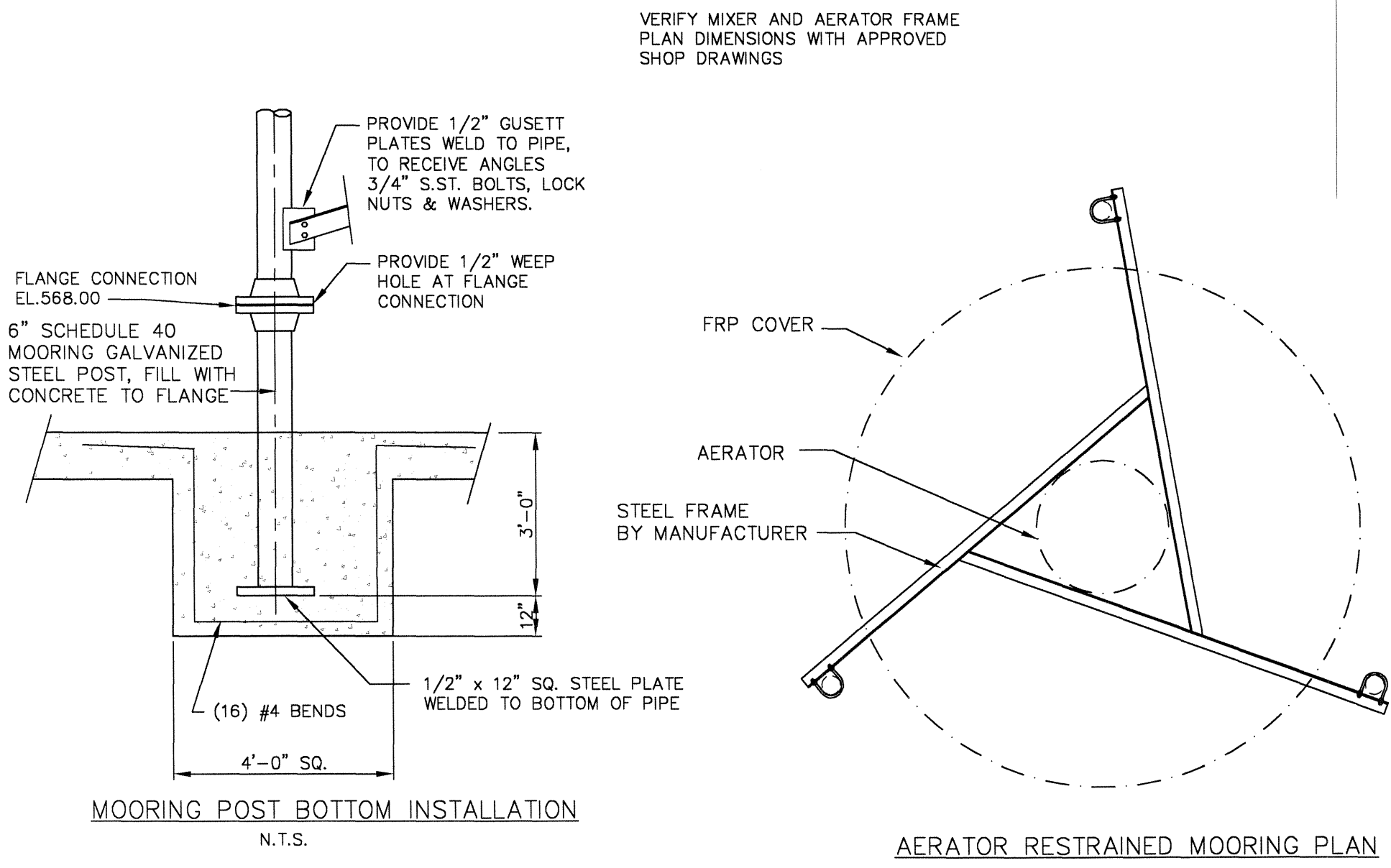
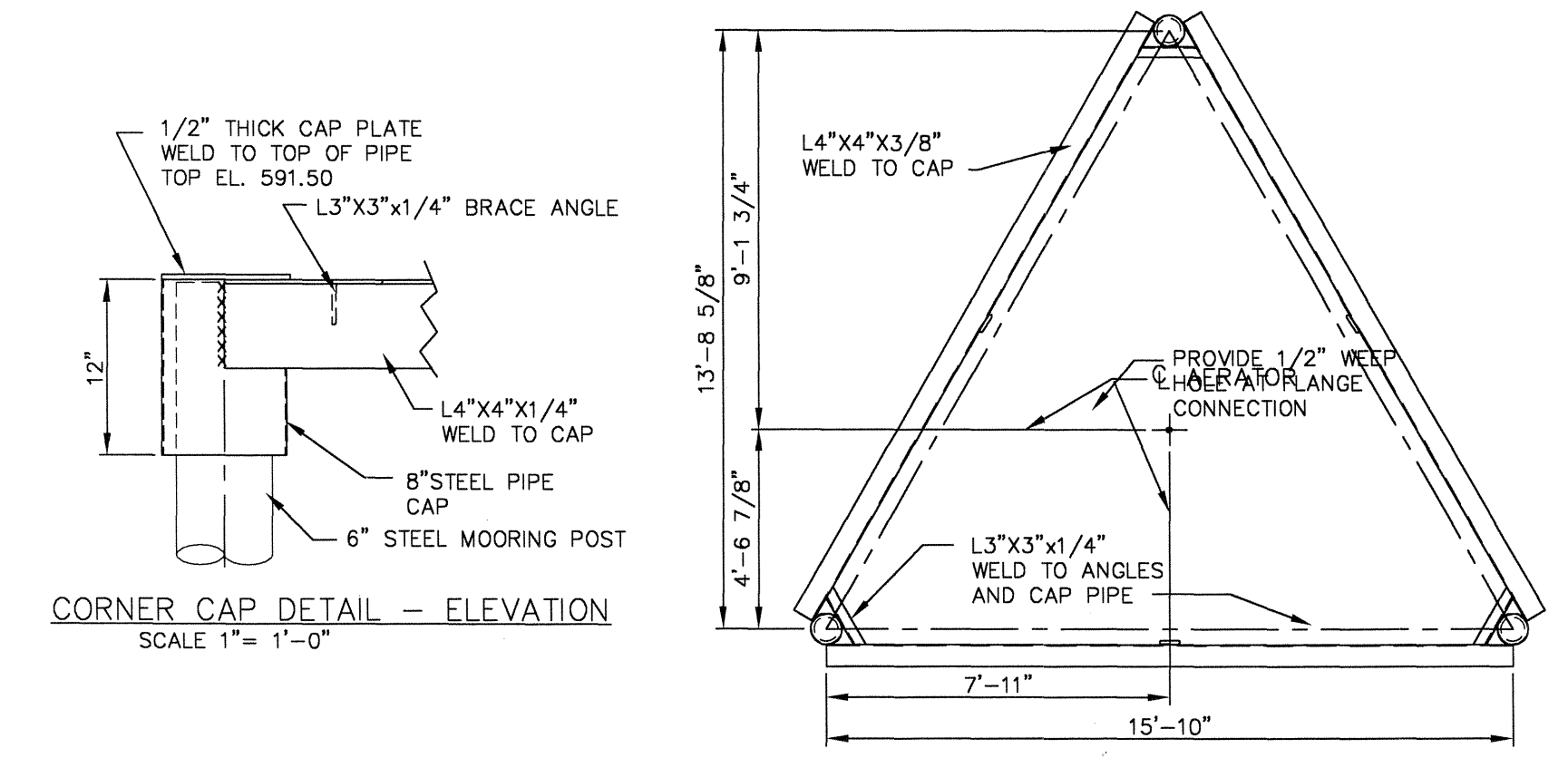
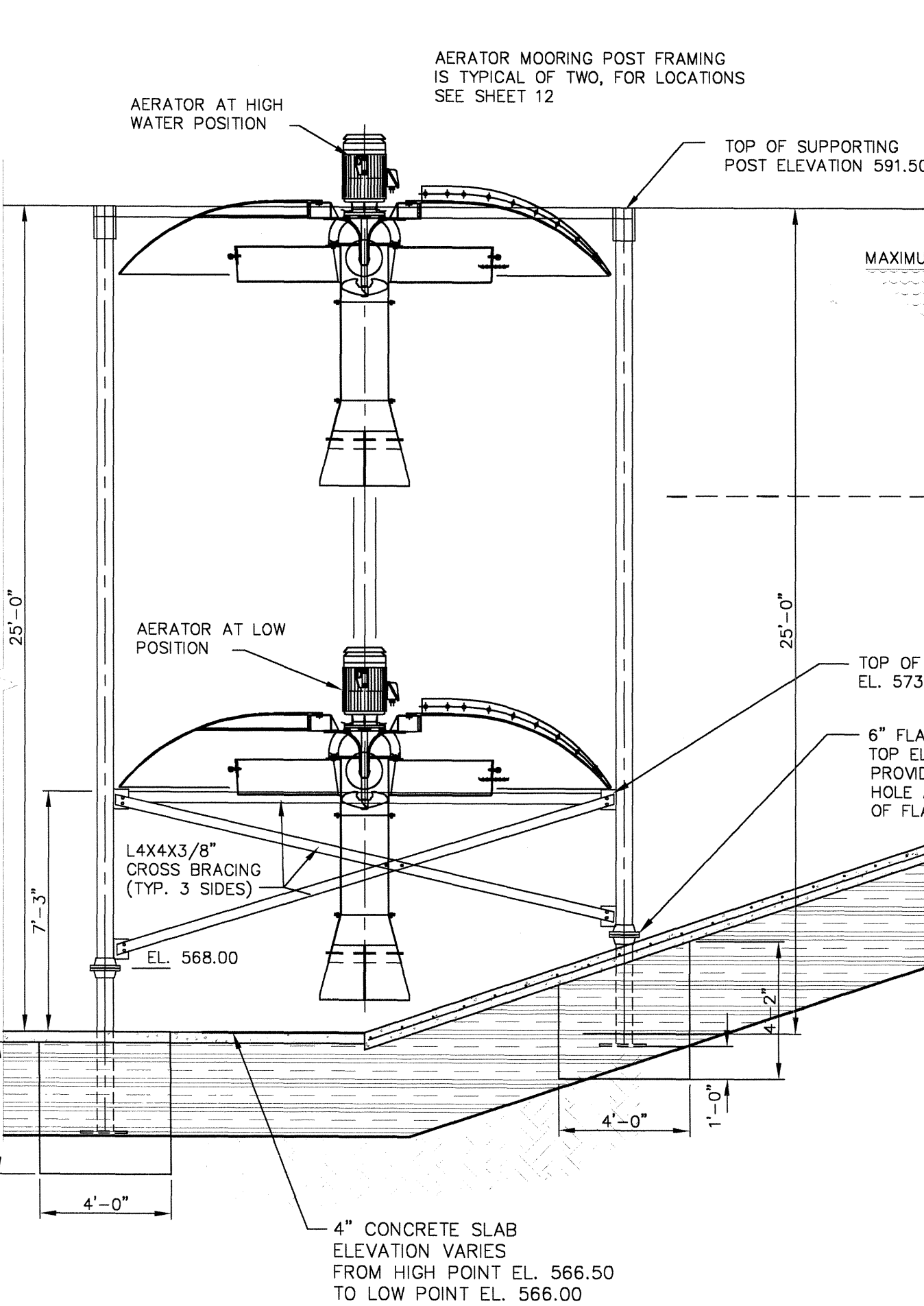
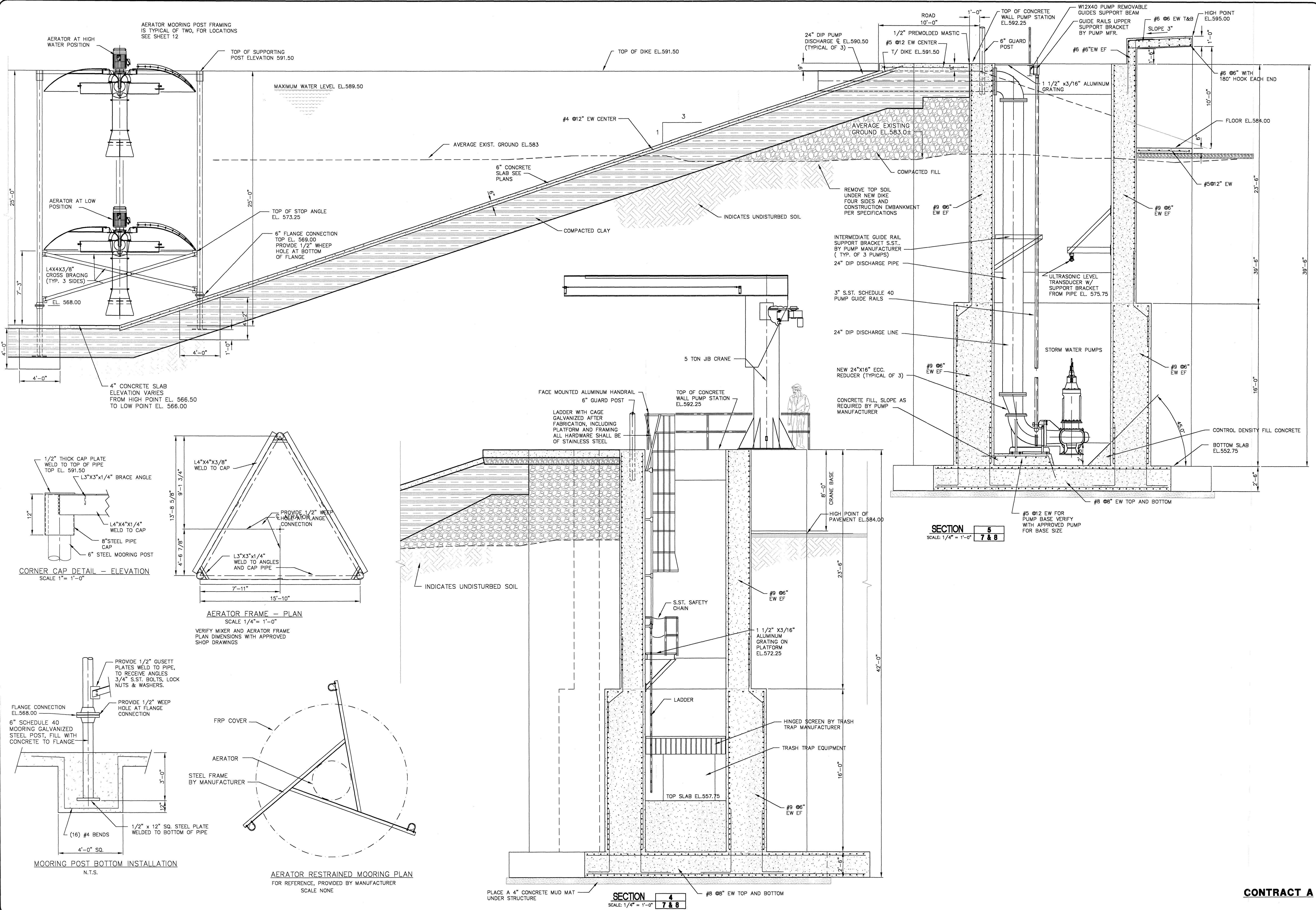
**TOP
 PLAN AT
 EL.592.25**

DRAWN BY CHECKED BY
 W.M.V. S.R.W.

REVISION

**8
 OF
 32**
 JOB NUMBER
 1590-120

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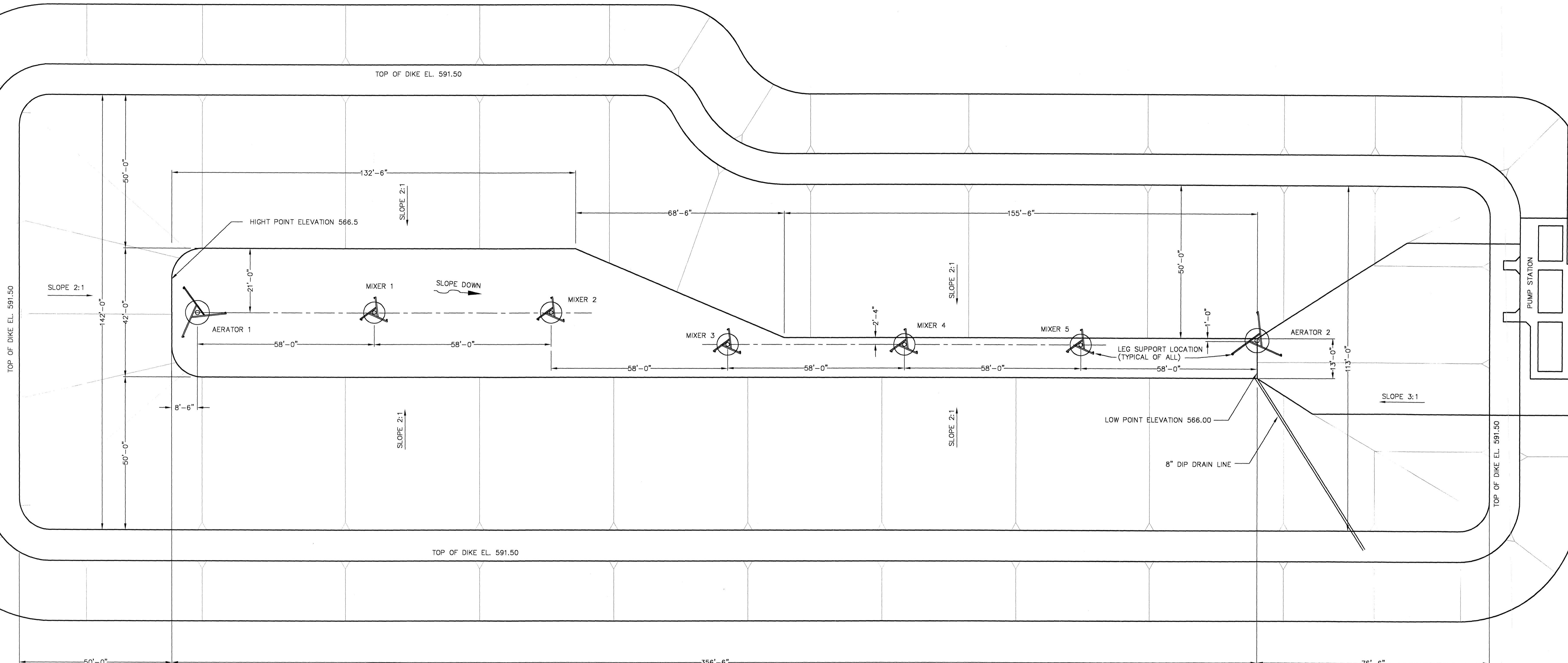


SECTION 5
SCALE: 1/4" = 1'-0"
7 & 8

SECTION 4
SCALE: 1/4" = 1'-0"
7 & 8

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TOP OF DIKE EL. 591.50



PLAN

SCALE 1/16" = 1'-0"



**CSO IMPROVEMENTS
CSO BASIN AND PUMP STATION
VILLAGE OF OAK HARBOR, OHIO**

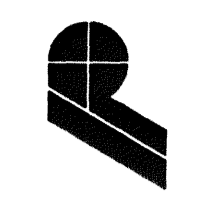
**EQ BASIN
MIXER LOCATION
PLAN**

DRAWN BY: W.M.V. CHECKED BY: S.R.W.

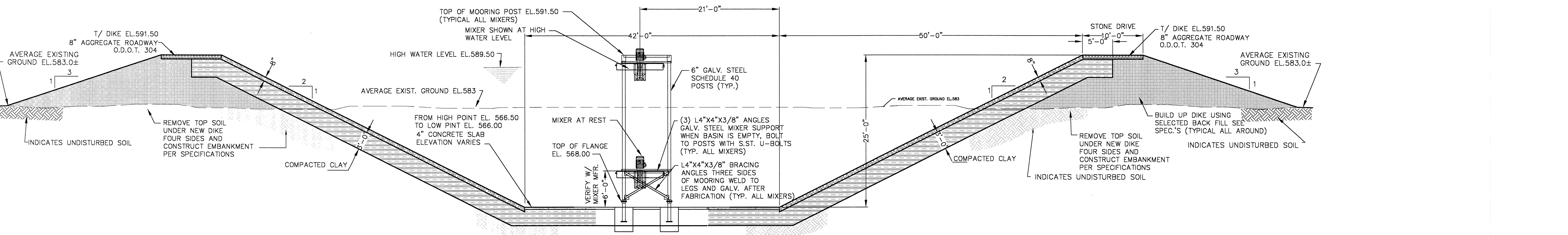
REVISION

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OF
32
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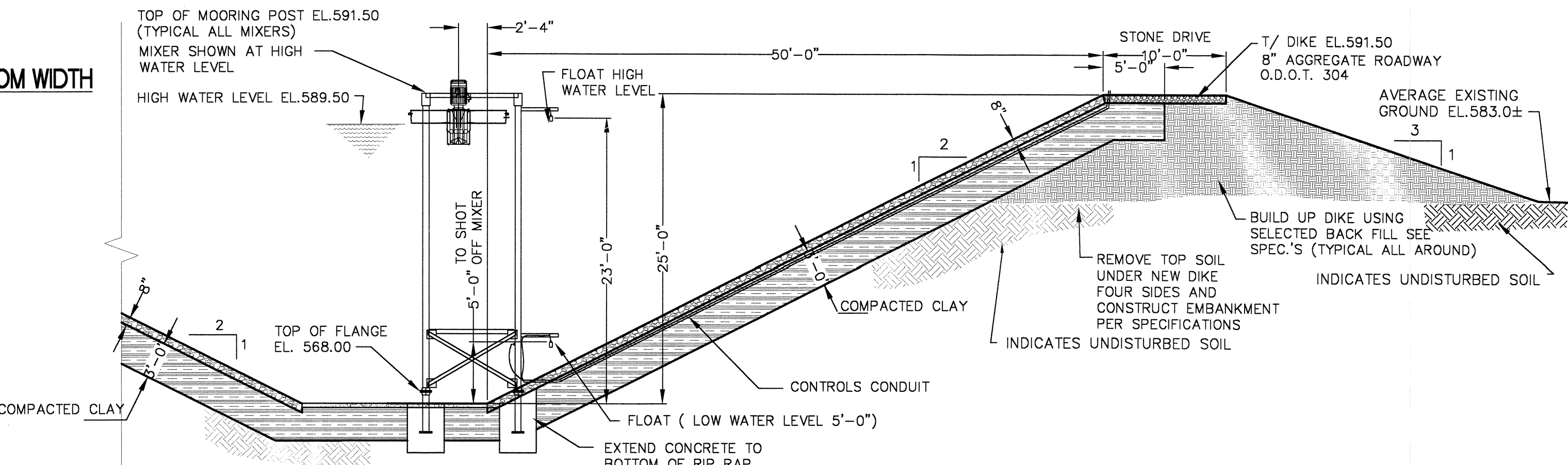
POGGEMEYER DESIGN GROUP, INC.
ARCHITECTS
ENGINEERS
PLANNERS
1168 NORTH MAIN STREET
BOWLING GREEN, OHIO 43402
(419) 352-7537



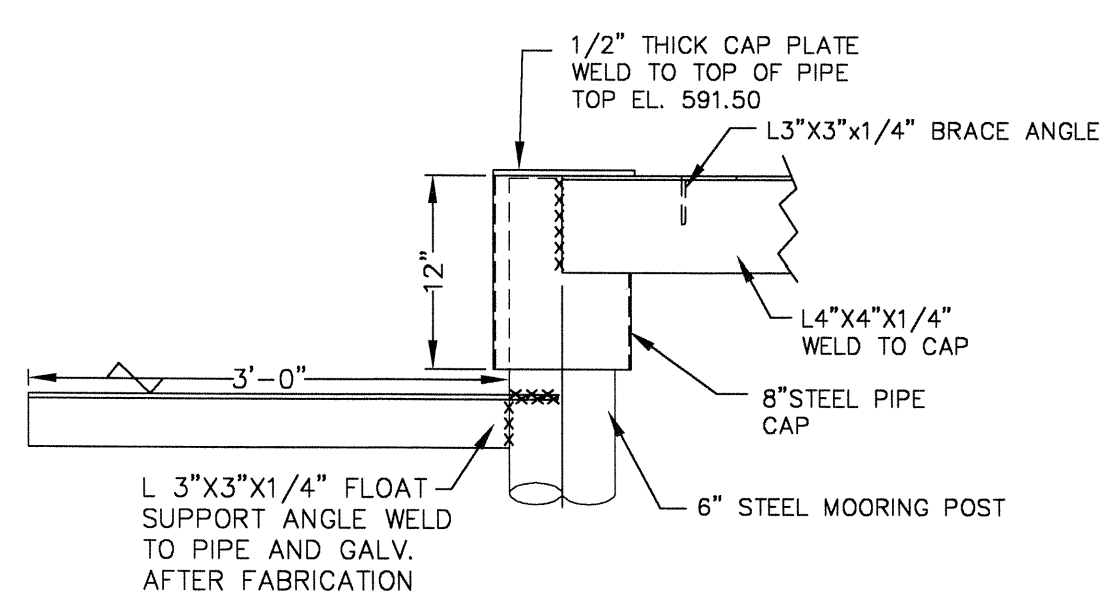
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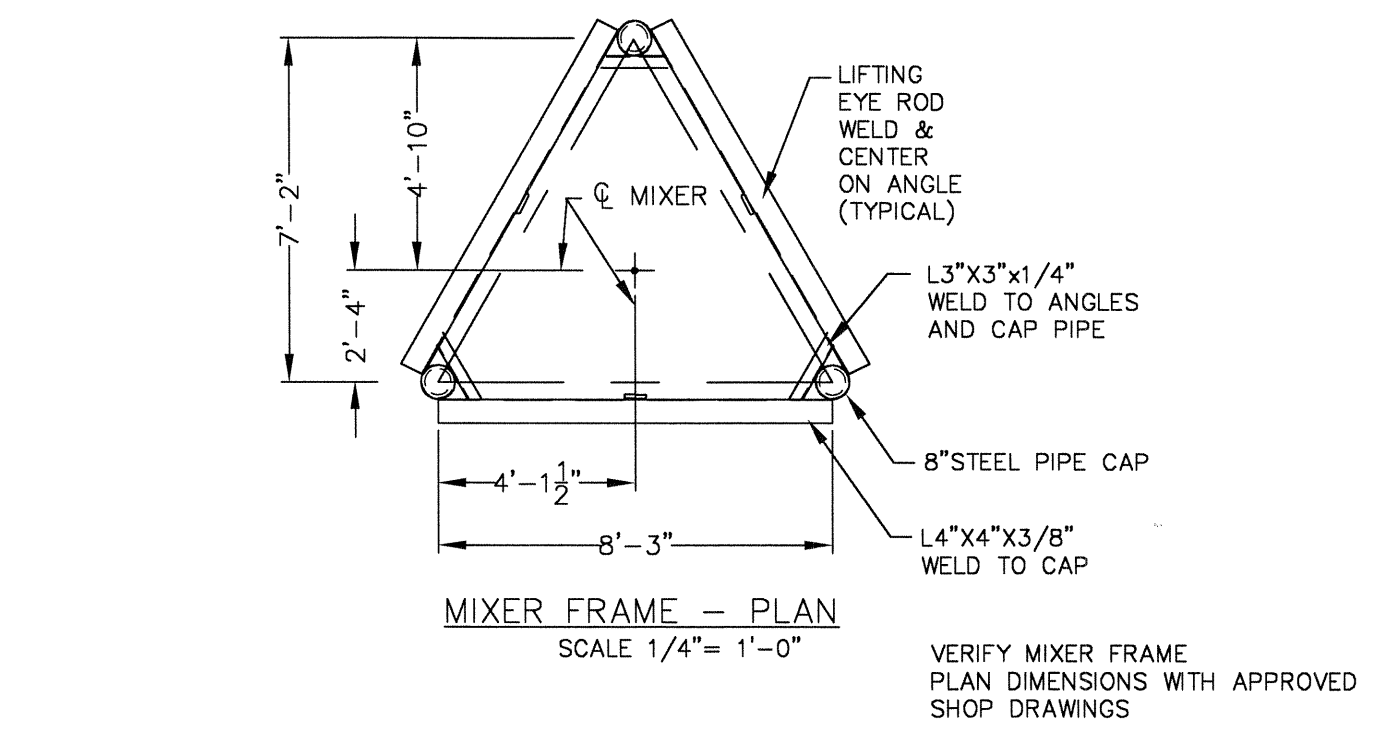
NOTE: FOR AERATOR FRAME SUPPORT SEE SHEET 11
LAGOON CROSS SECTION NORTH AND SOUTH 42'-0" BOTTOM WIDTH
 SCALE 1/8"=1'-0"



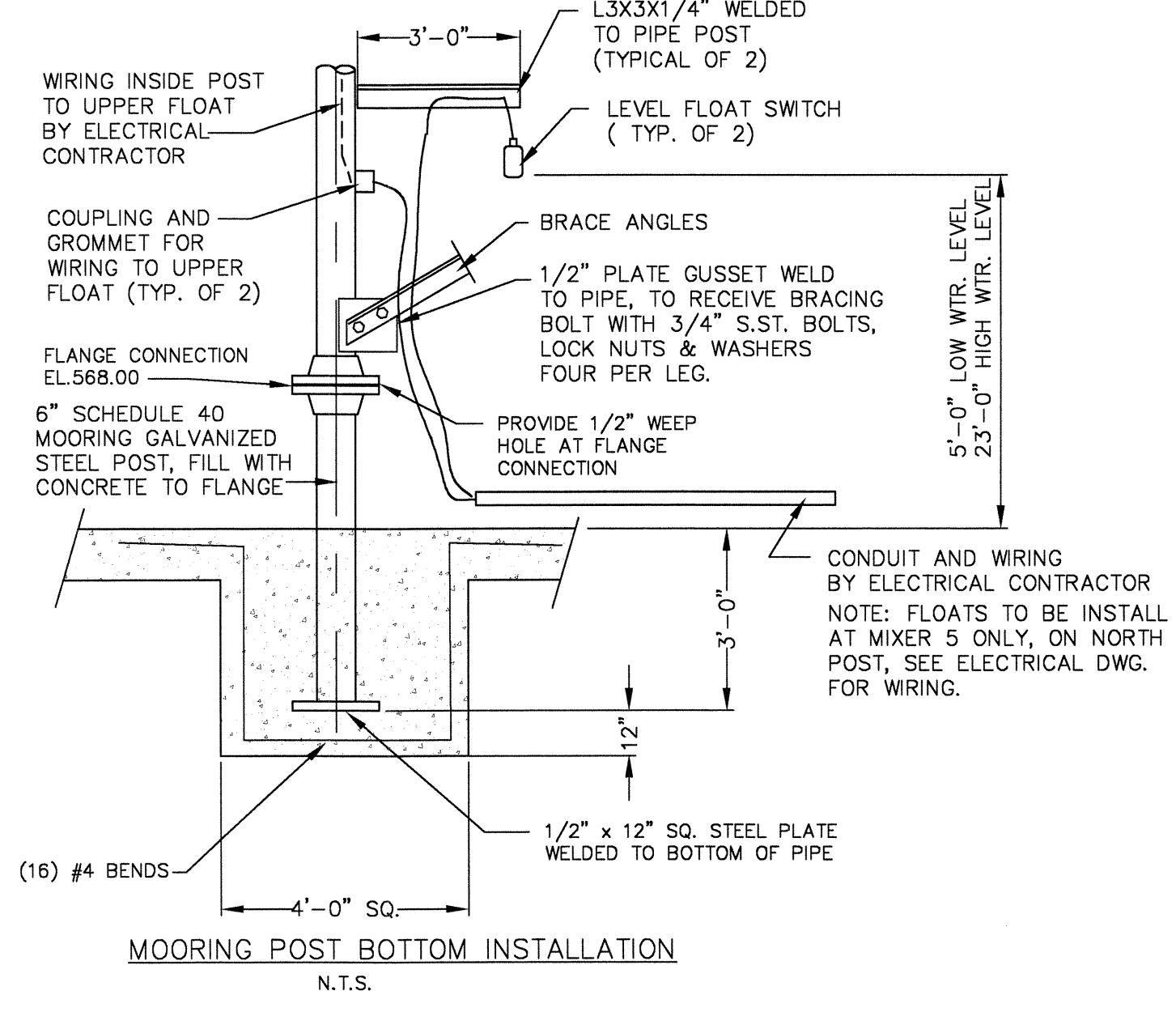
LAGOON CROSS SECTION NORTH AND SOUTH 13'-0" BOTTOM WIDTH
 SCALE 1/8"=1'-0"



CORNER CAP DETAIL - ELEVATION
 SCALE 1"=1'-0"

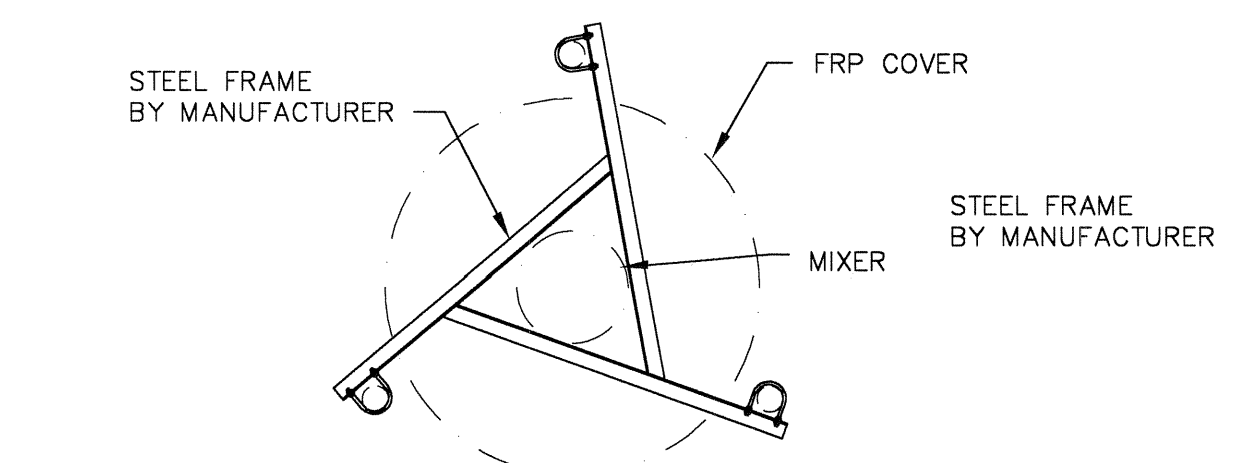


MIXER FRAME - PLAN
 SCALE 1/4"=1'-0"
 VERIFY MIXER FRAME PLAN DIMENSIONS WITH APPROVED SHOP DRAWINGS

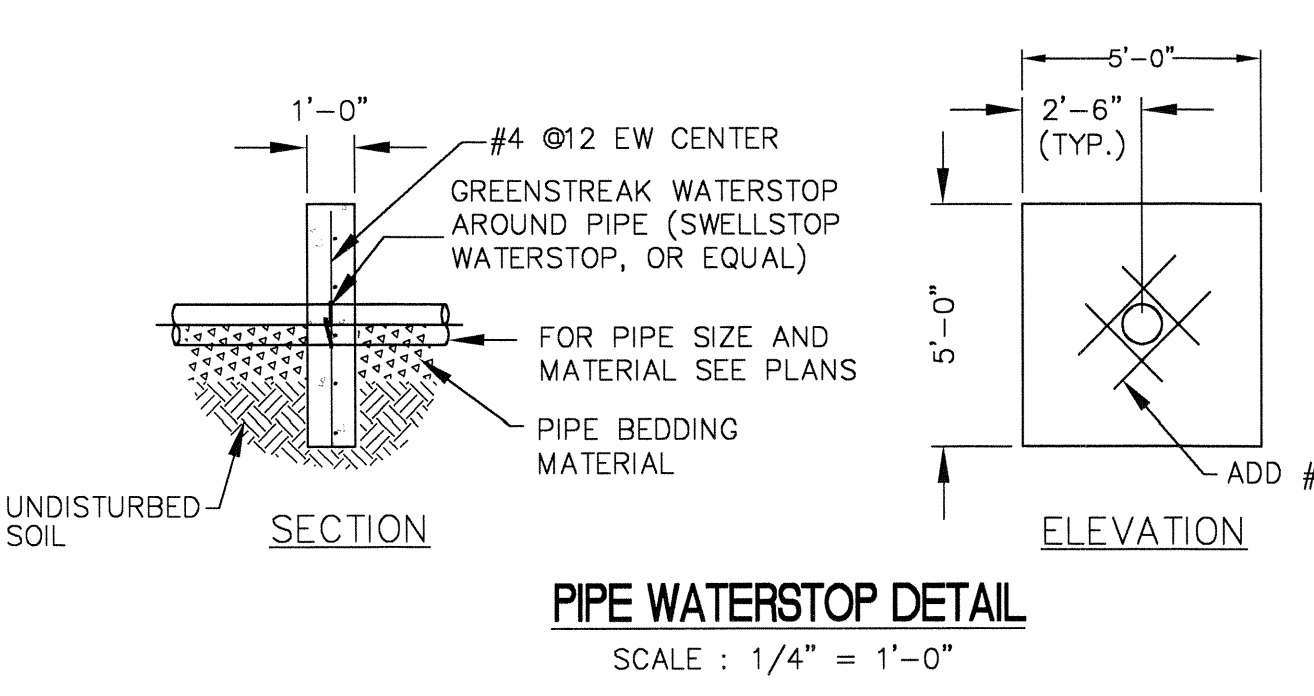


MOORING POST BOTTOM INSTALLATION
 N.T.S.

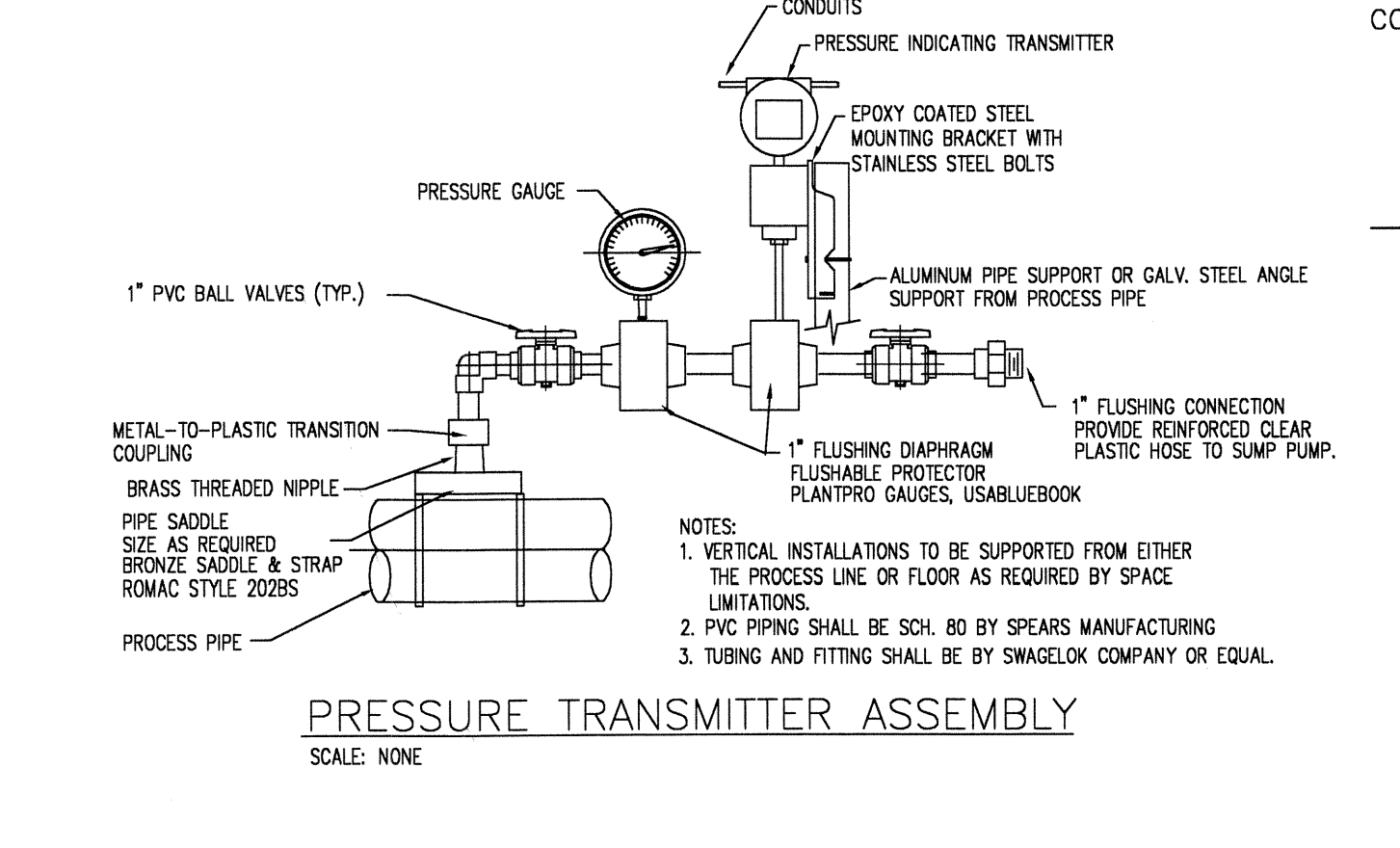
MOORING POST CAP STIFFENER FRAME DETAILS



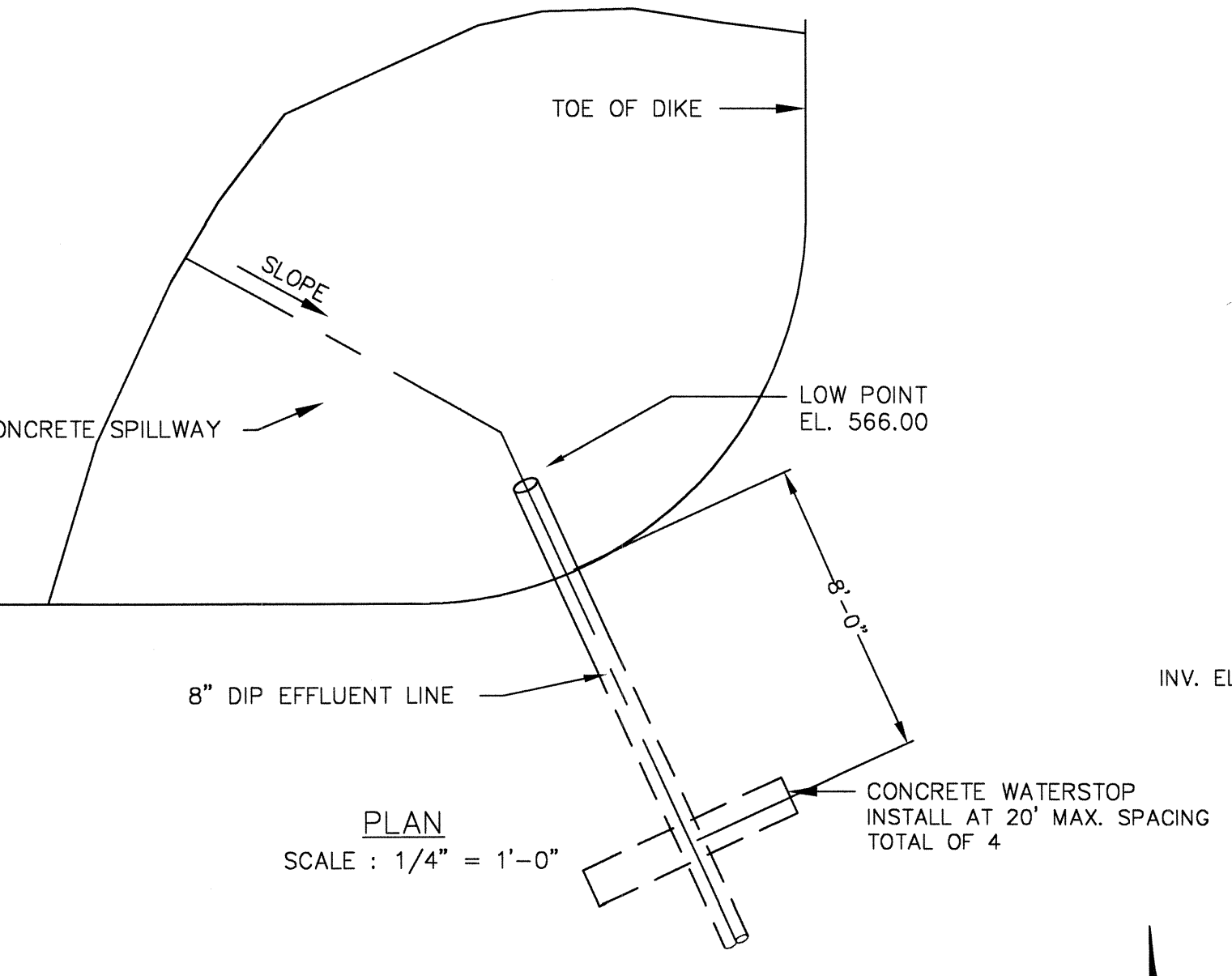
MIXER RESTRAINED MOORING PLAN
 FOR REFERENCE, PROVIDED BY MANUFACTURER
 SCALE NONE



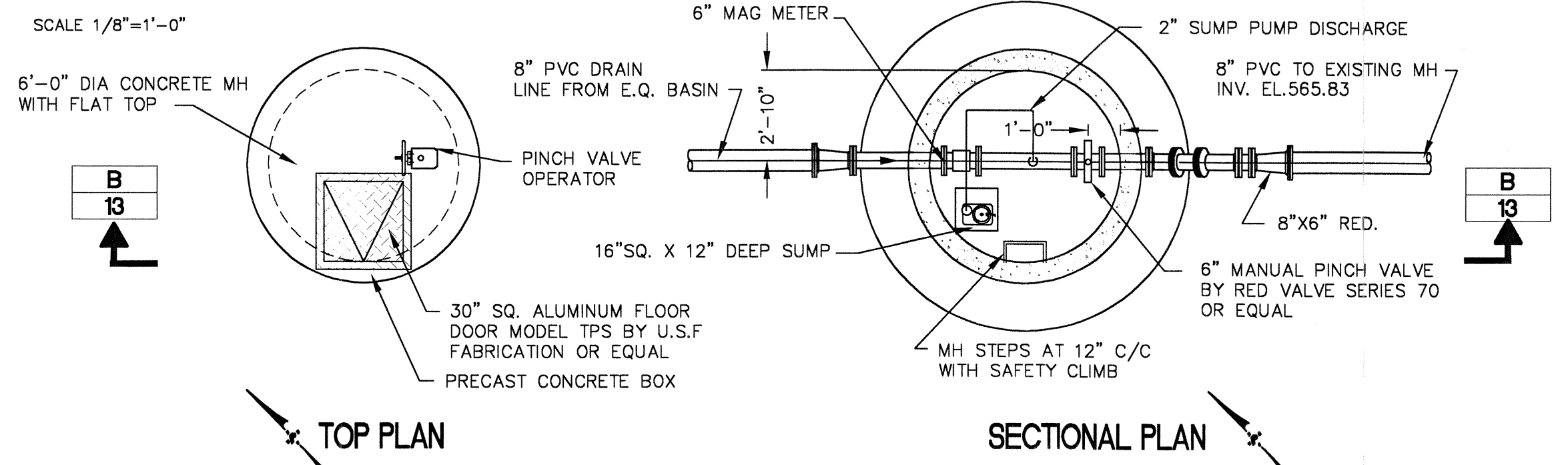
PIPE WATERSTOP DETAIL
 SCALE: 1/4"=1'-0"



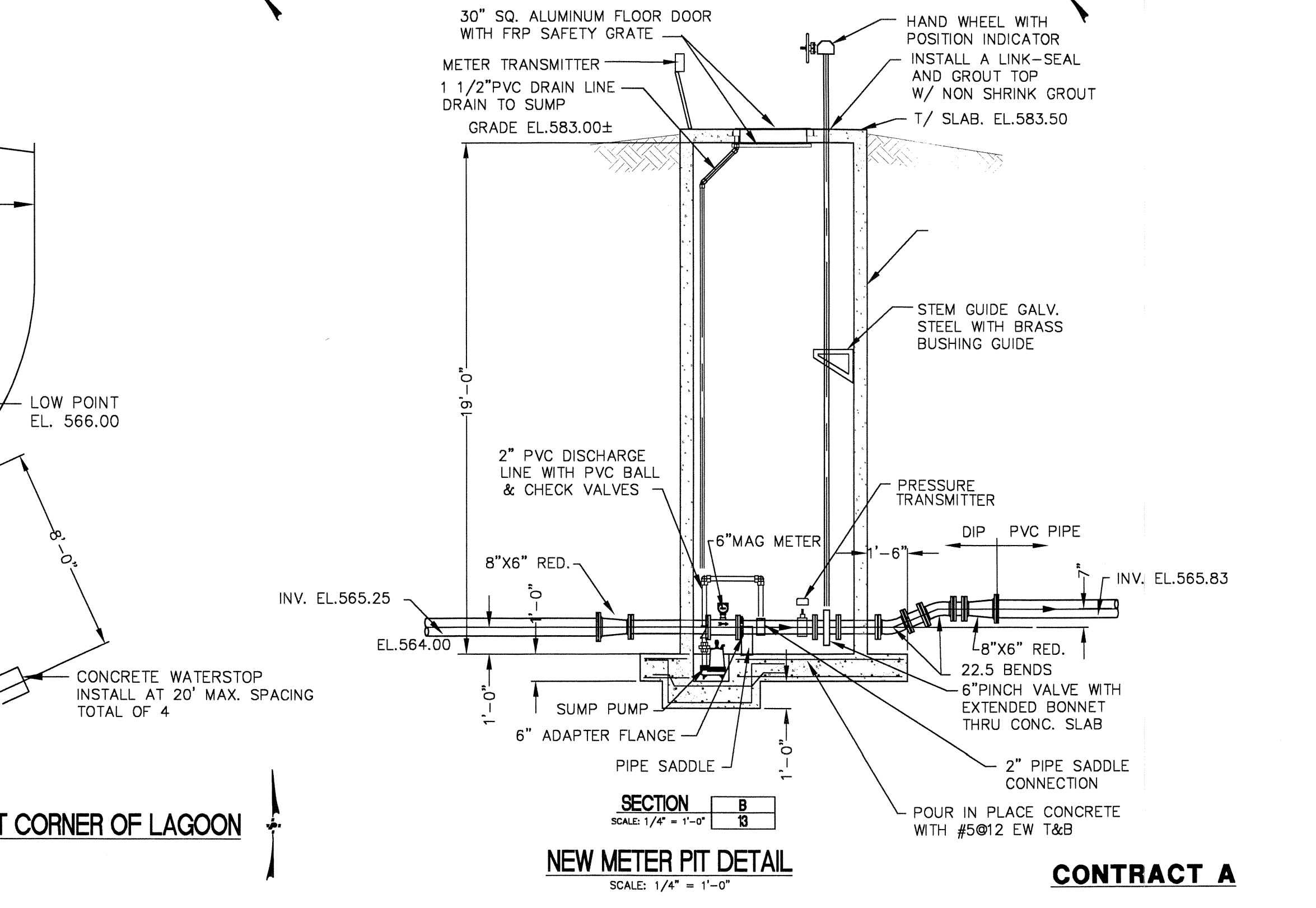
PRESSURE TRANSMITTER ASSEMBLY
 SCALE: NONE



EFFLUENT PIPE DETAIL AT SOUTH EAST CORNER OF LAGOON
 SCALE: 1/4"=1'-0"



TOP PLAN

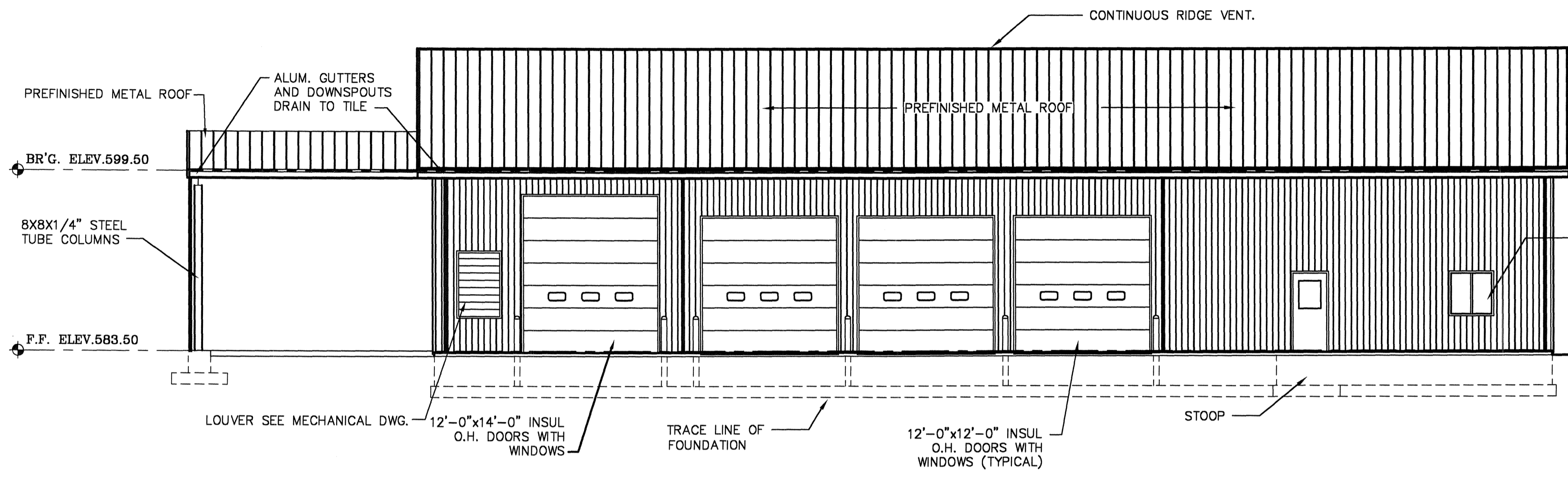


SECTIONAL PLAN

NEW METER PIT DETAIL
 SCALE: 1/4"=1'-0"

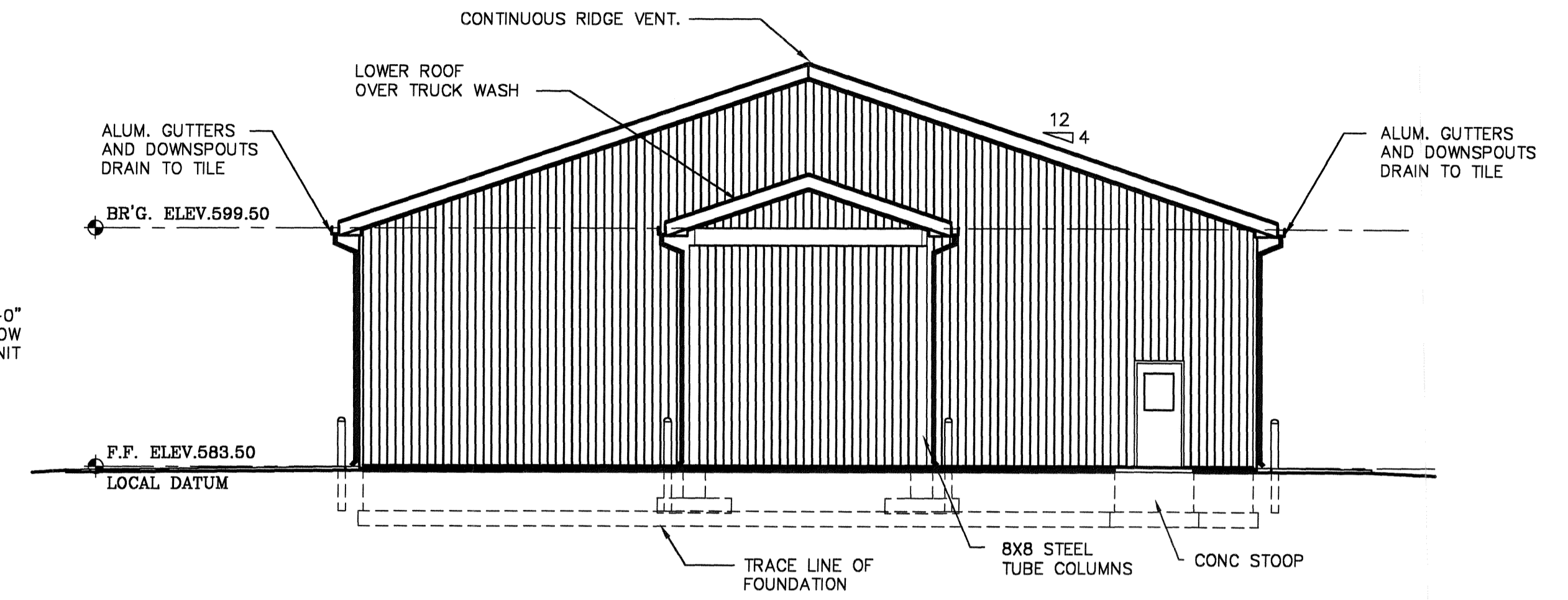
CONTRACT A

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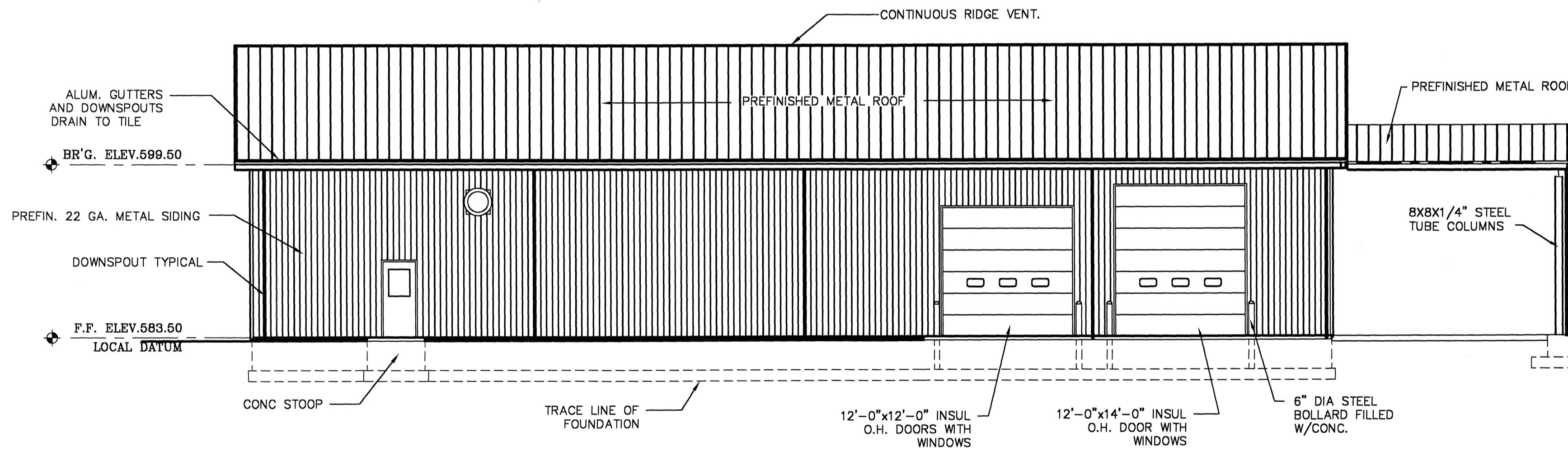
EAST ELEVATION

SCALE 1/8" = 1'-0"



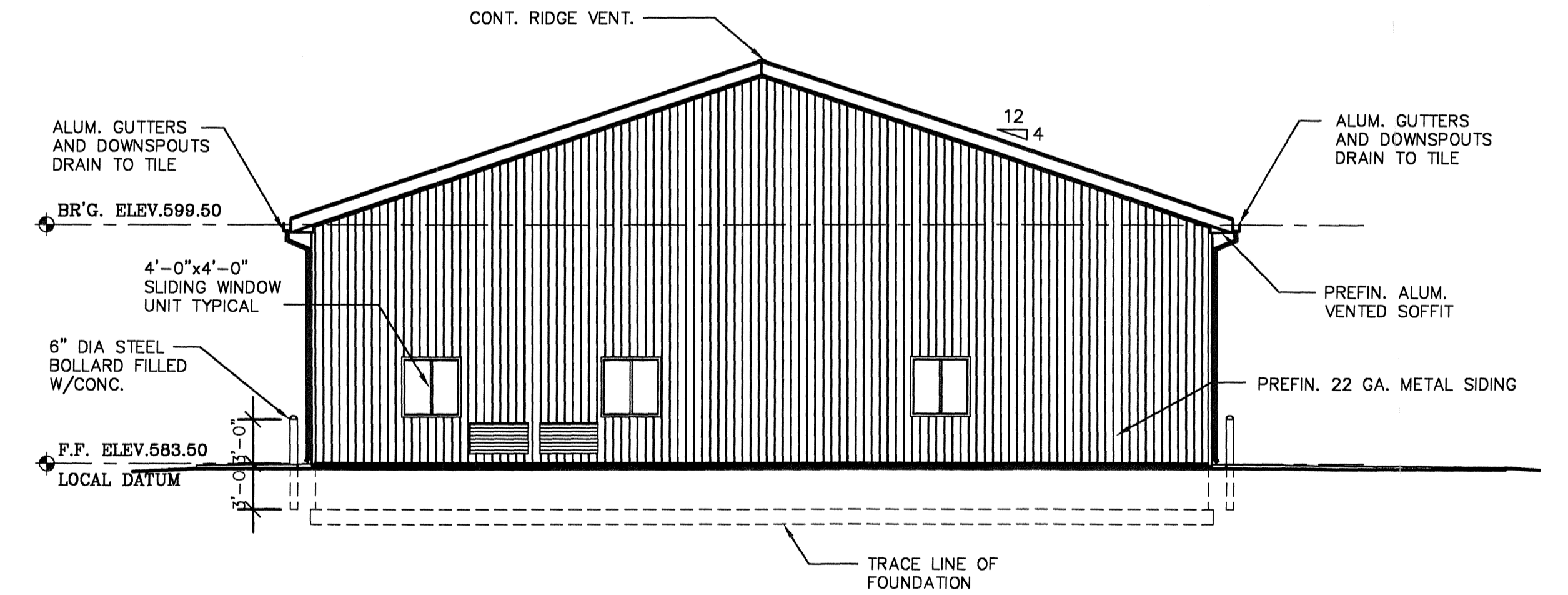
SOUTH ELEVATION

SCALE 1/8" = 1'-0"



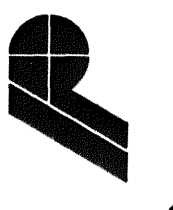
WEST ELEVATION

SCALE 1/8" = 1'-0"



NORTH ELEVATION

SCALE 1/8" = 1'-0"



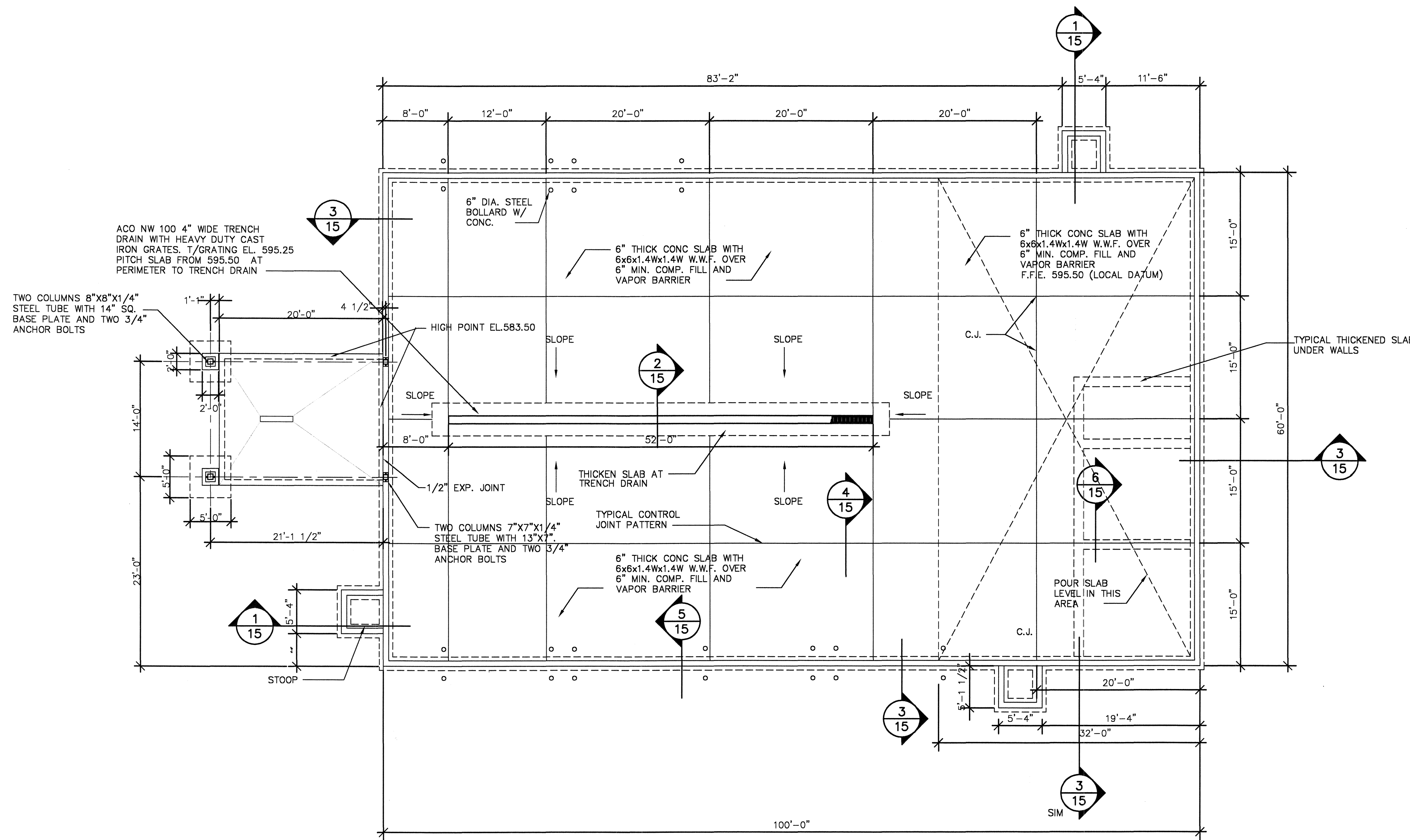
POGEMEYER DESIGN GROUP, INC.
PLANNERS
ARCHITECTS
ENGINEERS
1168 NORTH MAIN STREET
BOWLING GREEN, OHIO 43402
(419) 352-7537

**CSO IMPROVEMENTS
CSO BASIN AND PUMP STATION
VILLAGE OF OAK HARBOR, OHIO**

**MAINTENANCE BLDG.
EXTERIOR
ELEVATIONS**

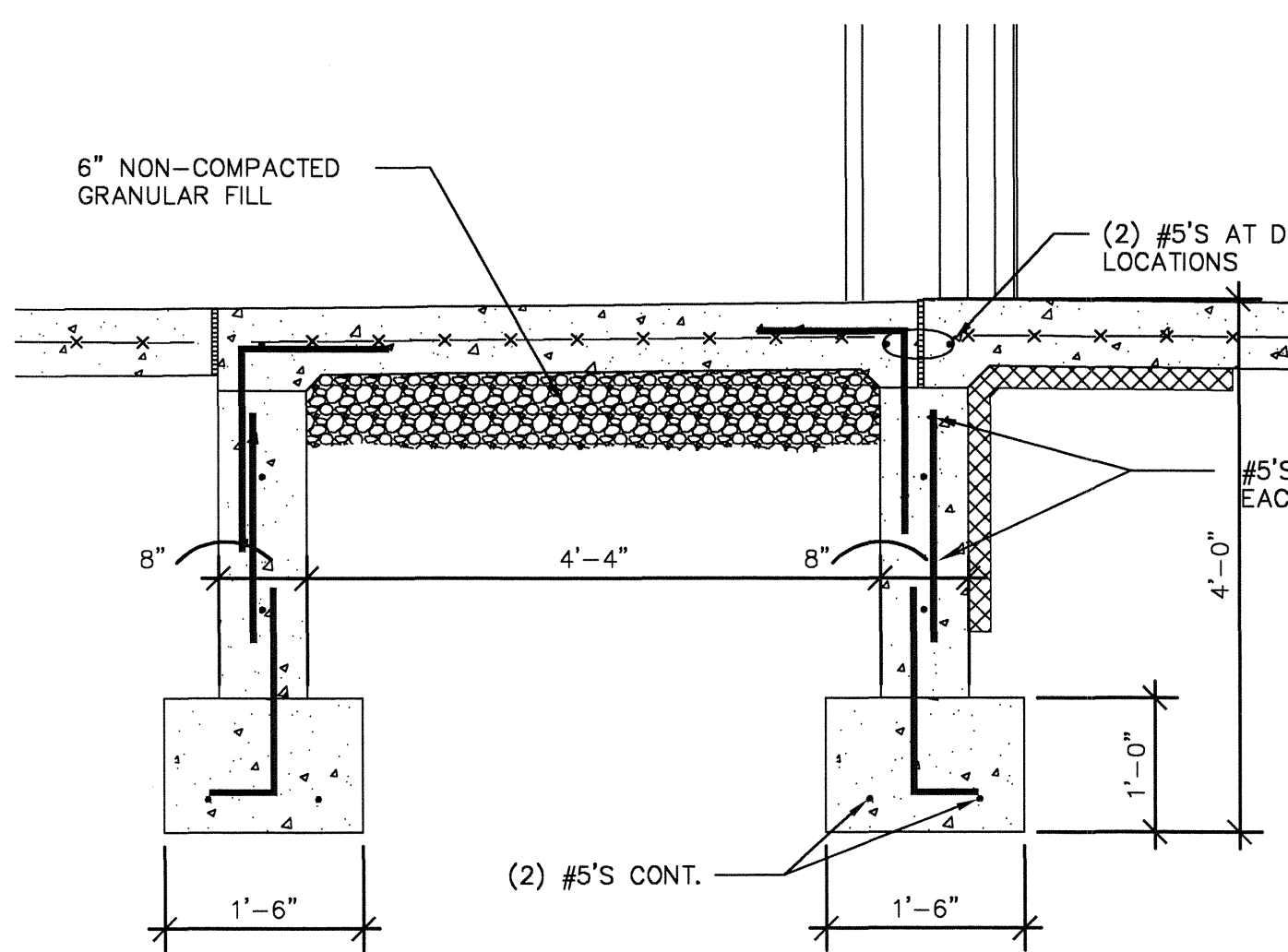
DRAWN BY / CHECKED BY
W.M.V.
REVISION

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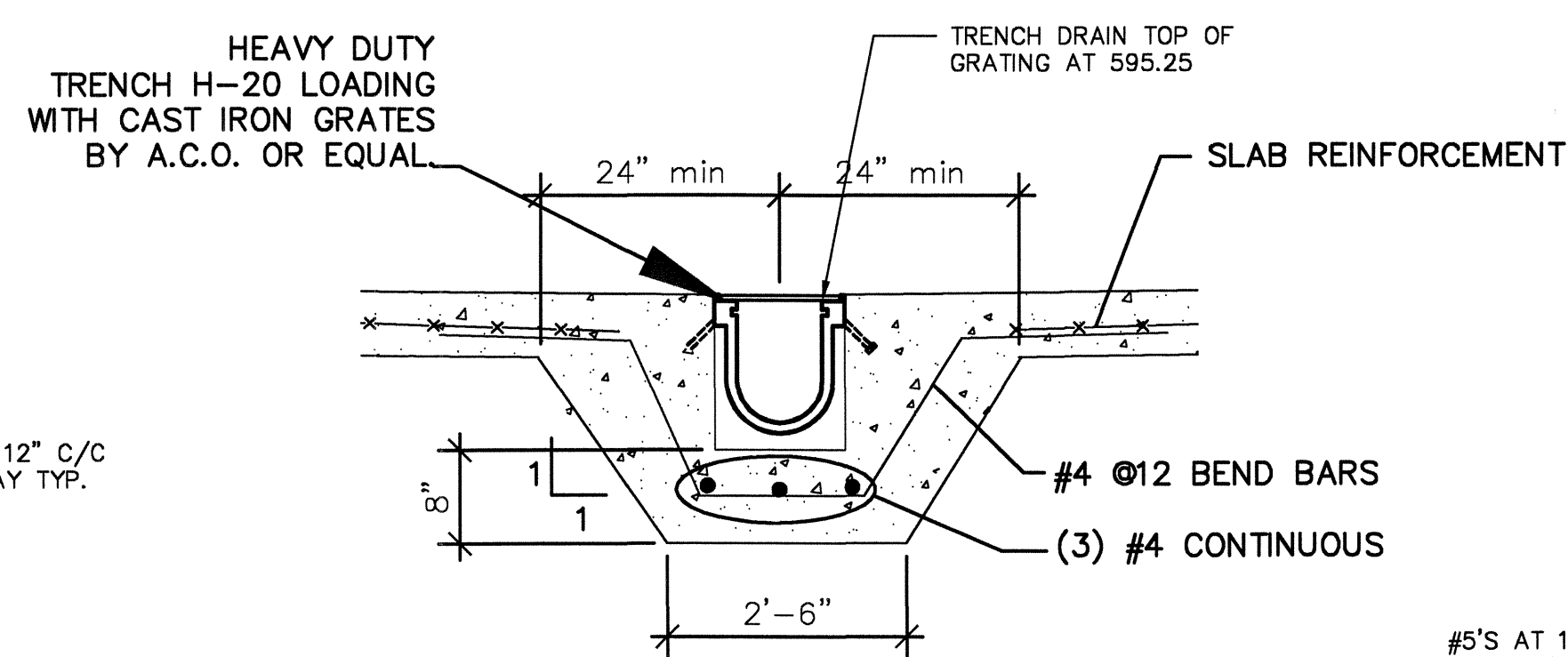
FOUNDATION PLANS

SCALE 1/8" = 1'-0"



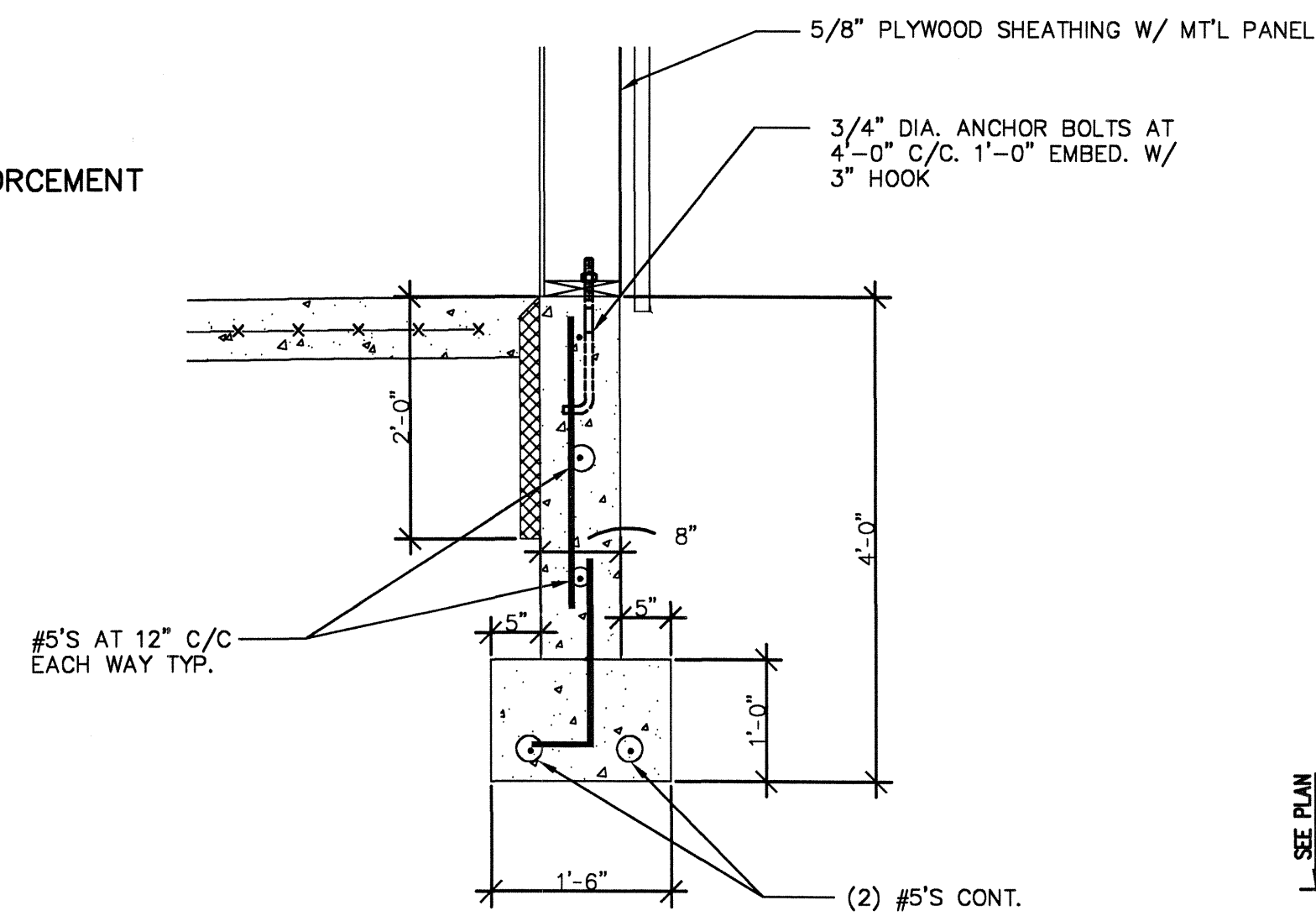
1 STOOP SECTION

SCALE 3/4" = 1'-0"



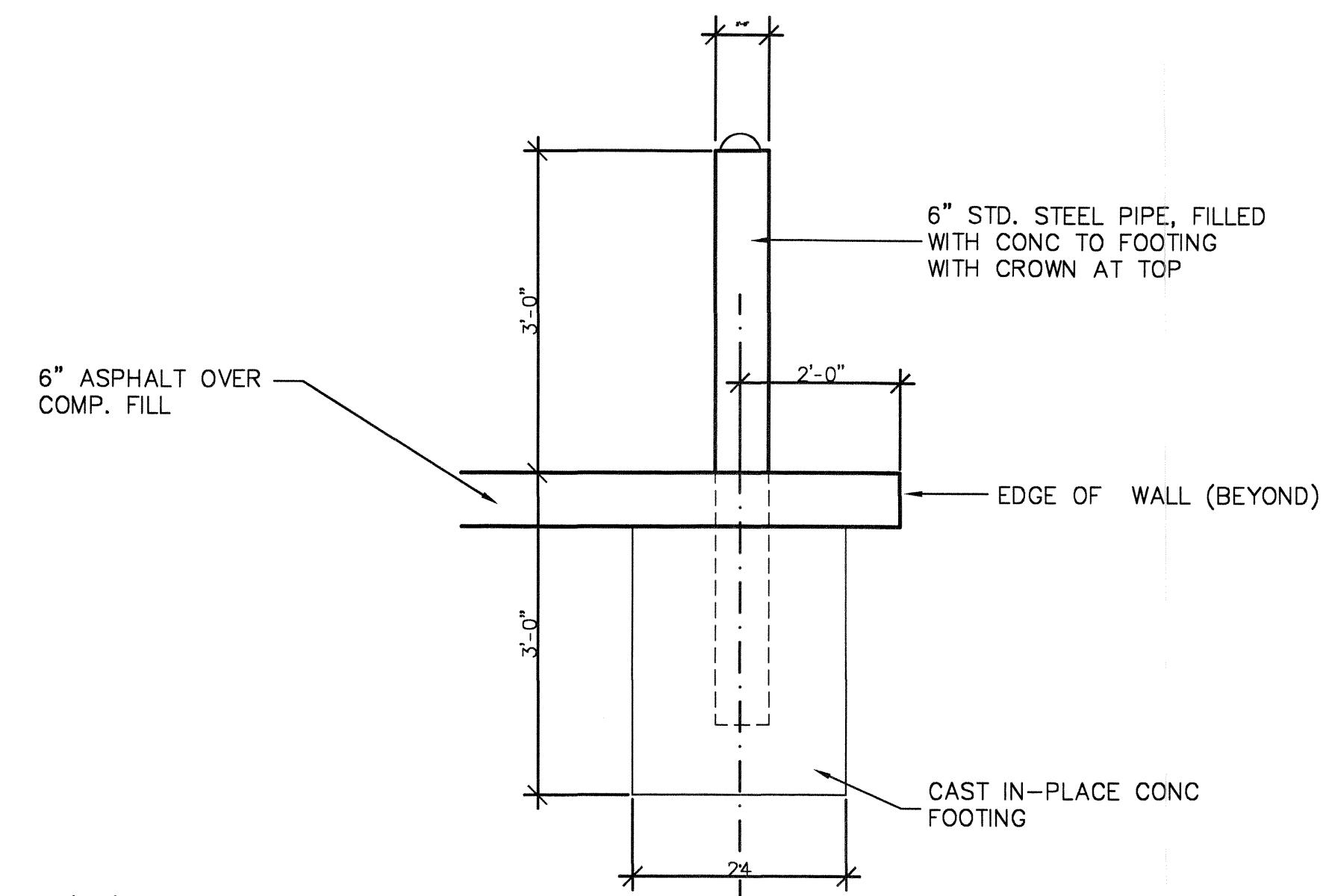
2 TRENCH DRAIN SECTION

SCALE 3/4" = 1'-0"



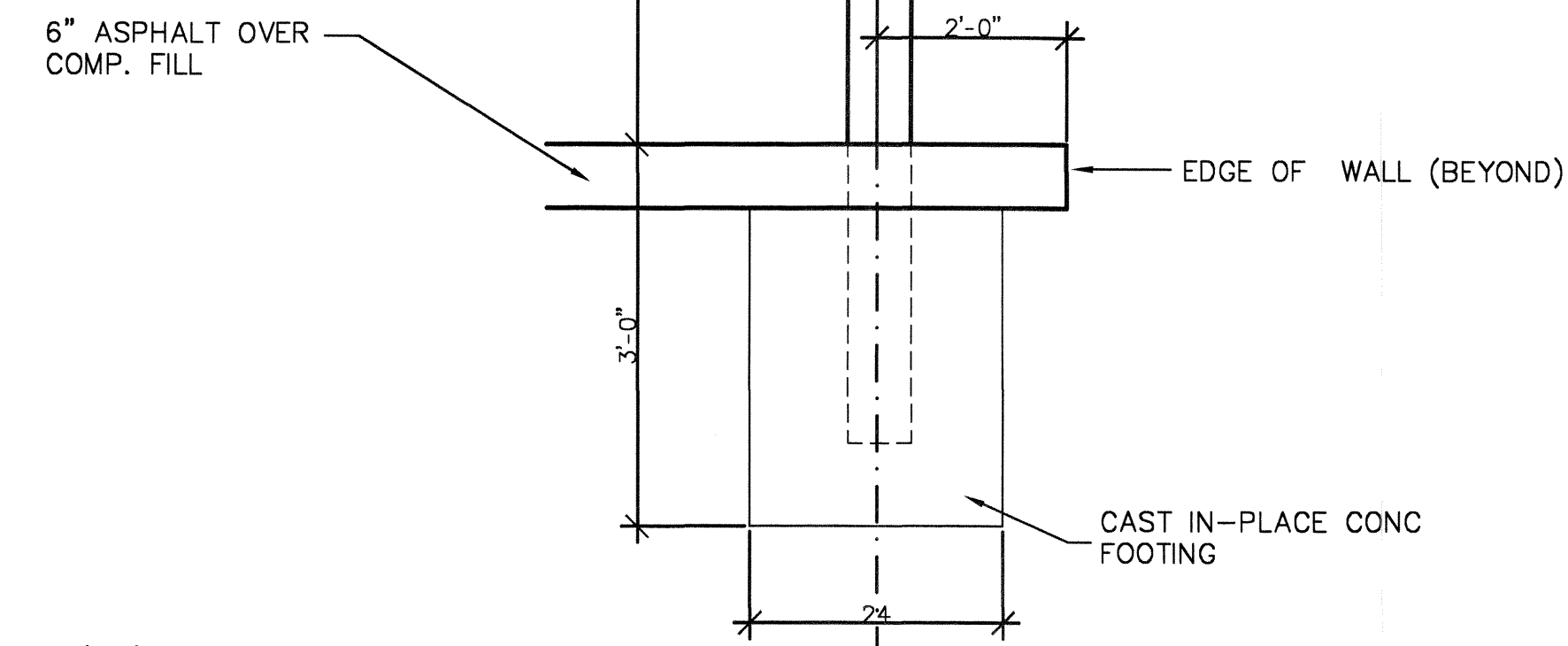
3 FOUNDATION SECTION

SCALE 3/4" = 1'-0"



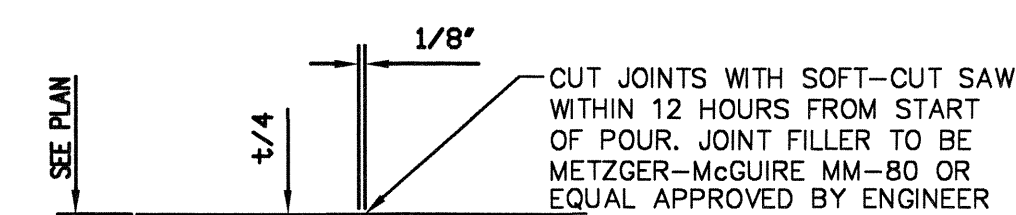
5 TYPICAL BOLLARD

NTS



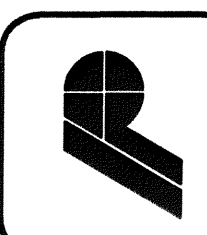
6 THICKENED FLOOR SLAB DETAIL

NTS



4 TYPICAL CONTROL JOINT

NTS



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**CSO IMPROVEMENTS
CSO BASIN AND PUMP STATION
VILLAGE OF OAK HARBOR, OHIO**

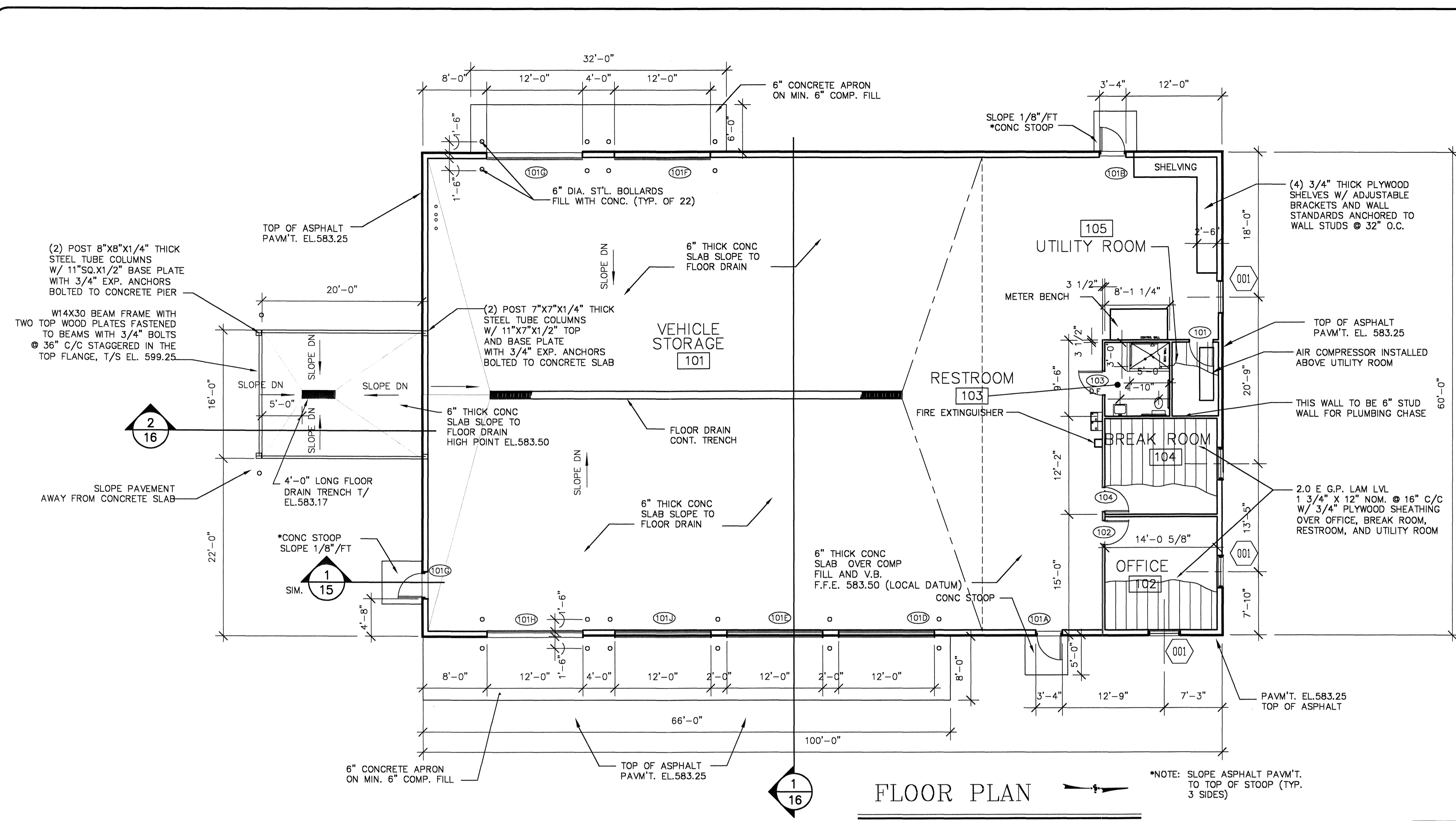
**MAINTENANCE BLDG.
PLAN, SECTIONS
AND DETAILS**

DESIGNED BY: W.M.V. SO
CHECKED BY: SO
REVISION:

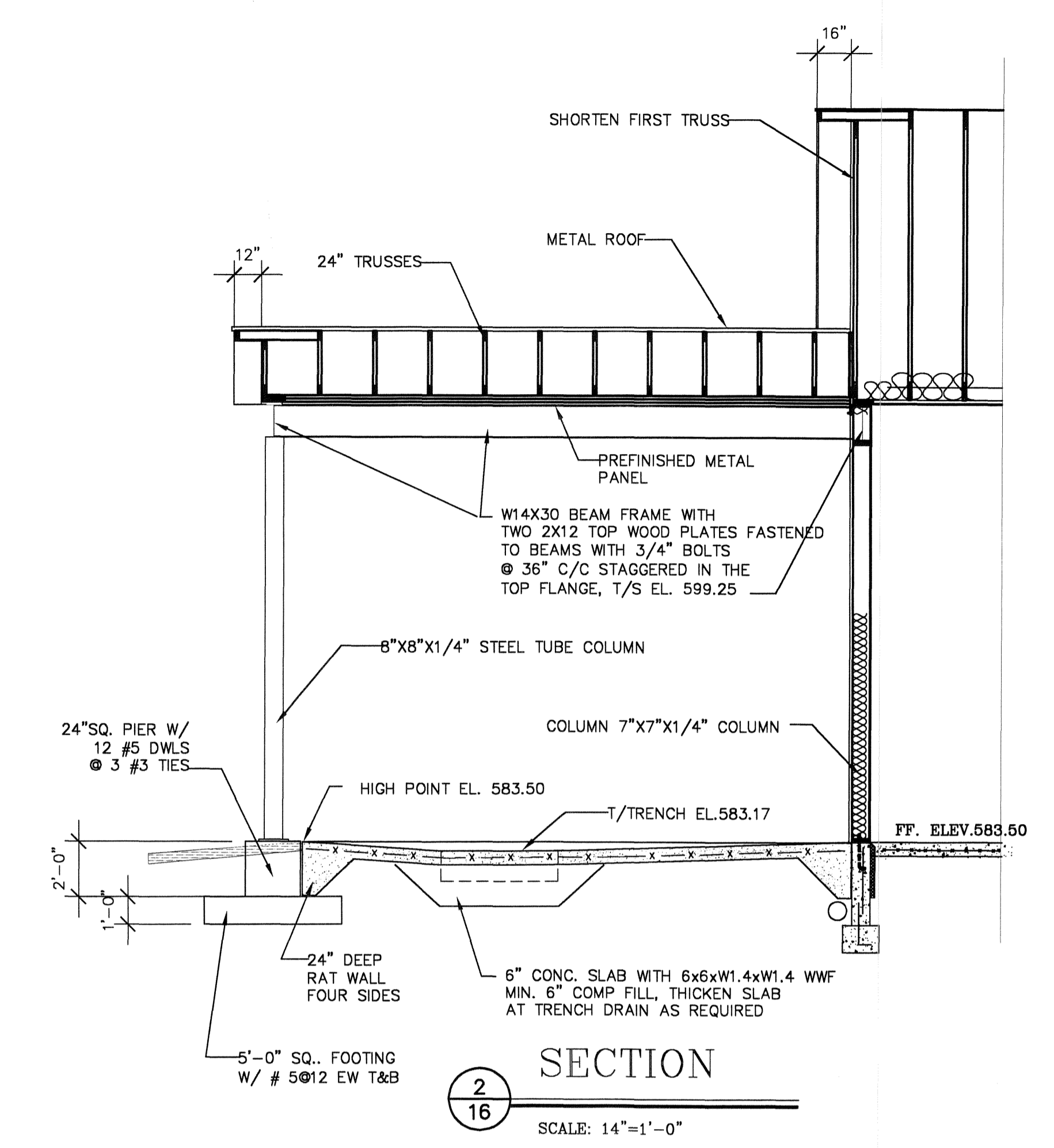
15 OF 32
JOB NUMBER 1590-120

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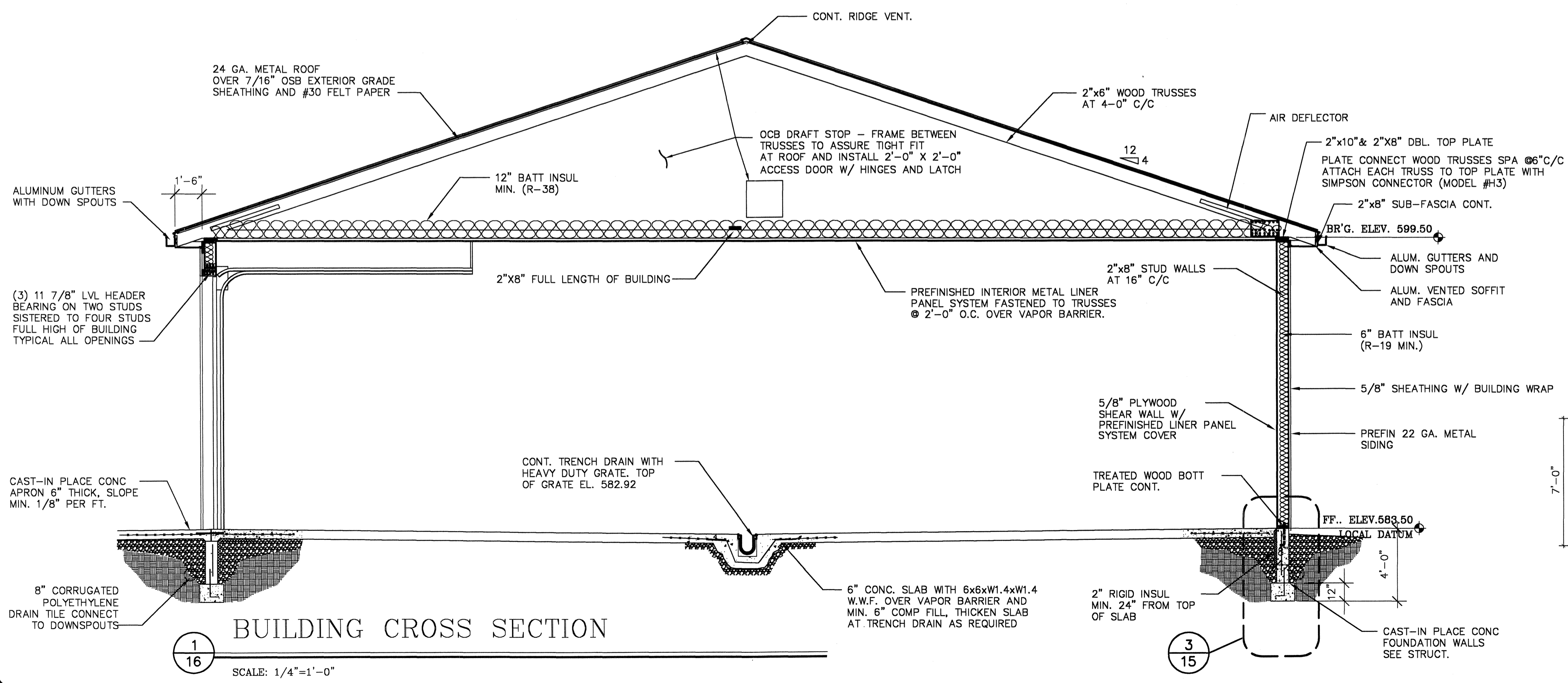
FLOOR PLAN
SCALE 1/8" = 1'-0"



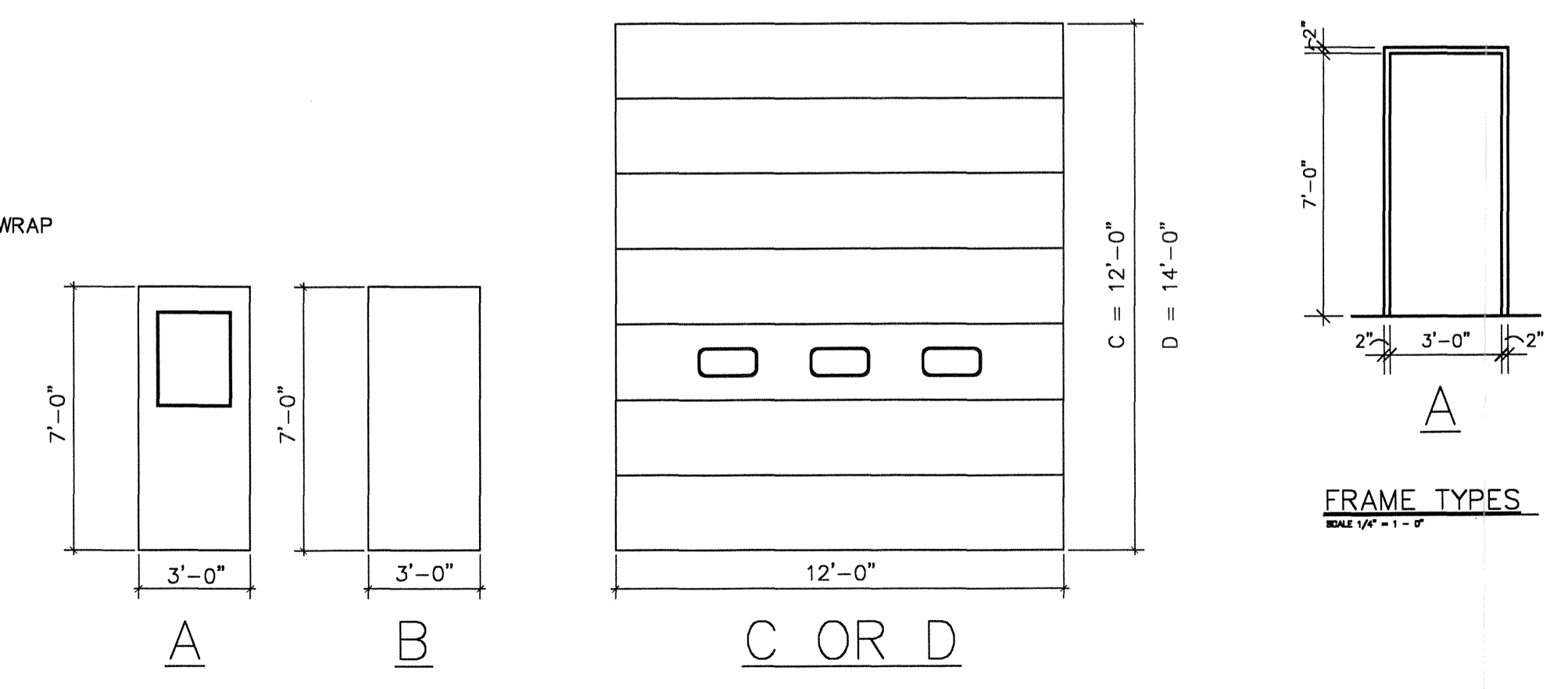
SECTION
SCALE: 1/4" = 1'-0"

ROOM FINISH SCHEDULE							
NUMBER	NAME	FLOOR	BASE	WALLS	CLG FIN	CLG HG	NOTES
101	VEHICLE STORAGE	CONC.	-	PREFIN-PANELS	PREFIN PAN	16'-0"	SEALED CONC. FLOOR
102	OFFICE	VCT	4" RESIL	PTD-GYP	PTD GYP	8'-0"	
103	RESTROOM	VCT	6" RESIL	PTD-GYP	PTD GYP	8'-0"	
104	BREAK ROOM	VCT	6" RESIL	PTD-GYP	PTD GYP	8'-0"	
105	UTILITY ROOM	VCT	6" RESIL	PTD-GYP	PTD GYP	8'-0"	

DOOR SCHEDULE														
NUMBER	WIDTH	HEIGHT	THICK	TYPE	MATL	FIN	RATE	FR. TYPE	FFIN	FMATL	HDWR	HEAD	JAMB	REMARKS
101	3'-0"	7'-0"	1 3/4"	B	H.M.	PTD	-	A	PAINT	H.M.	2	-	-	
101A	3'-0"	7'-0"	1 3/4"	A	H.M.	PTD	-	A	PAINT	H.M.	1	-	-	HDCP THRESHOLD
101B	3'-0"	7'-0"	1 3/4"	A	H.M.	PTD	-	A	PAINT	H.M.	1	-	-	HDCP THRESHOLD
101C	3'-0"	7'-0"	1 3/4"	A	H.M.	PTD	-	A	PAINT	H.M.	1	-	-	HDCP THRESHOLD
101D	12'-0"	12'-0"	-	C	METAL	PREFIN	-	-	-	-	4	-	-	INSUL. O.H. W/OPERATOR
101E	12'-0"	12'-0"	-	C	METAL	PREFIN	-	-	-	-	4	-	-	INSUL. O.H. W/OPERATOR
101F	12'-0"	12'-0"	-	C	METAL	PREFIN	-	-	-	-	4	-	-	INSUL. O.H. W/OPERATOR
101G	12'-0"	14'-0"	-	A	METAL	PREFIN	-	-	-	-	4	-	-	INSUL. O.H. W/OPERATOR
101H	12'-0"	14'-0"	-	D	METAL	PREFIN	-	-	-	-	4	-	-	INSUL. O.H. W/OPERATOR
101J	12'-0"	12'-0"	-	D	METAL	PREFIN	-	-	-	-	4	-	-	INSUL. O.H. W/OPERATOR
102	3'-0"	7'-0"	1 3/4"	A	H.M.	PTD	-	A	PAINT	H.M.	2	-	-	
103	3'-0"	7'-0"	1 3/4"	B	H.M.	PTD	-	A	PAINT	H.M.	2	-	-	
104	3'-0"	7'-0"	1 3/4"	A	H.M.	PTD	-	A	PAINT	H.M.	3	-	-	



BUILDING CROSS SECTION
SCALE: 1/4" = 1'-0"



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

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

CONTRACT A

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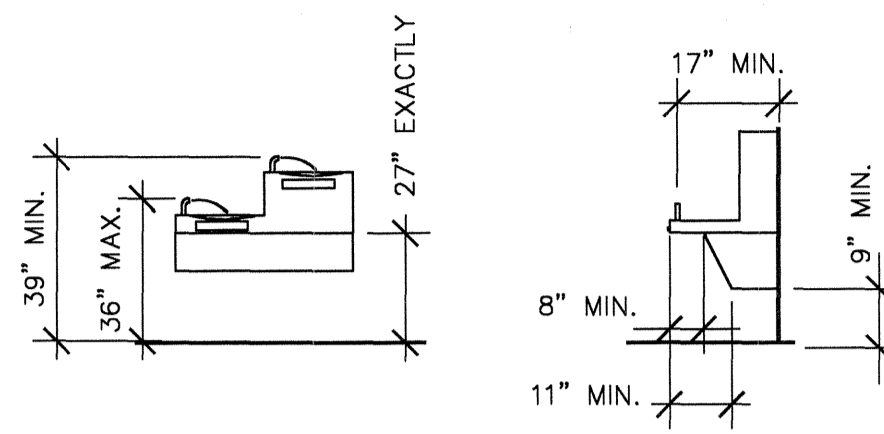
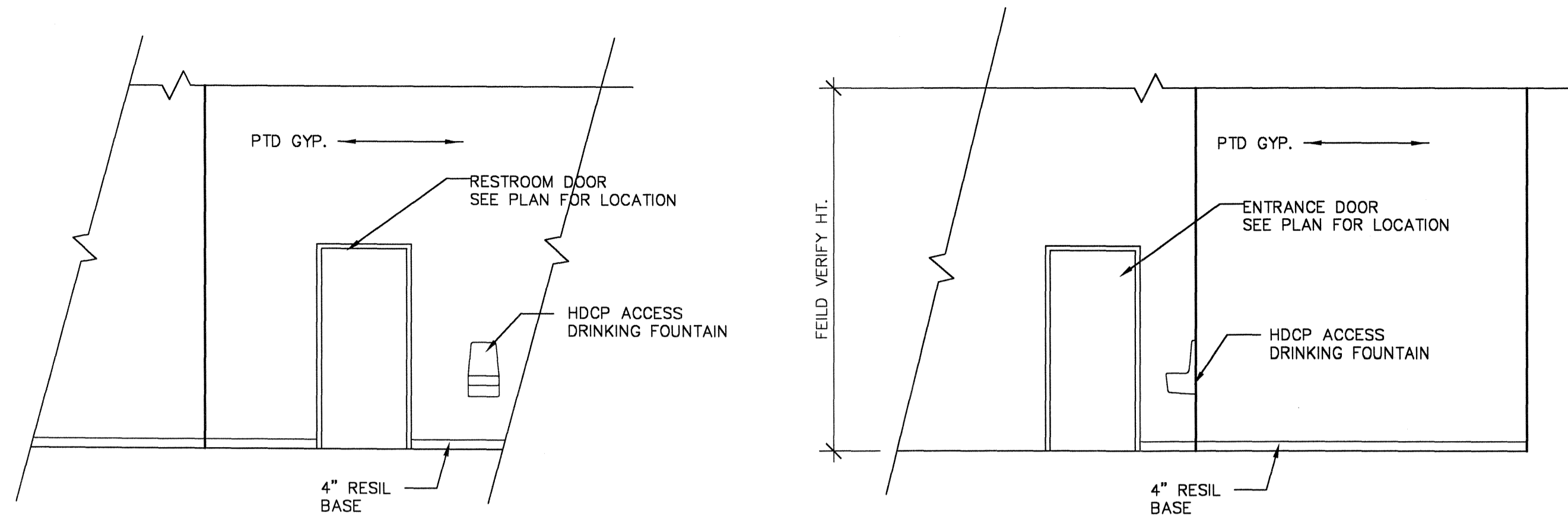
**CSO IMPROVEMENTS
CSO BASIN AND PUMP STATION
VILLAGE OF OAK HARBOR, OHIO**

**MAINTENANCE BLDG.
PLAN, SECTION
AND SCHEDULES**

DRAWN BY: W.M.V. / CHECKED BY: W.M.V.
REVISION

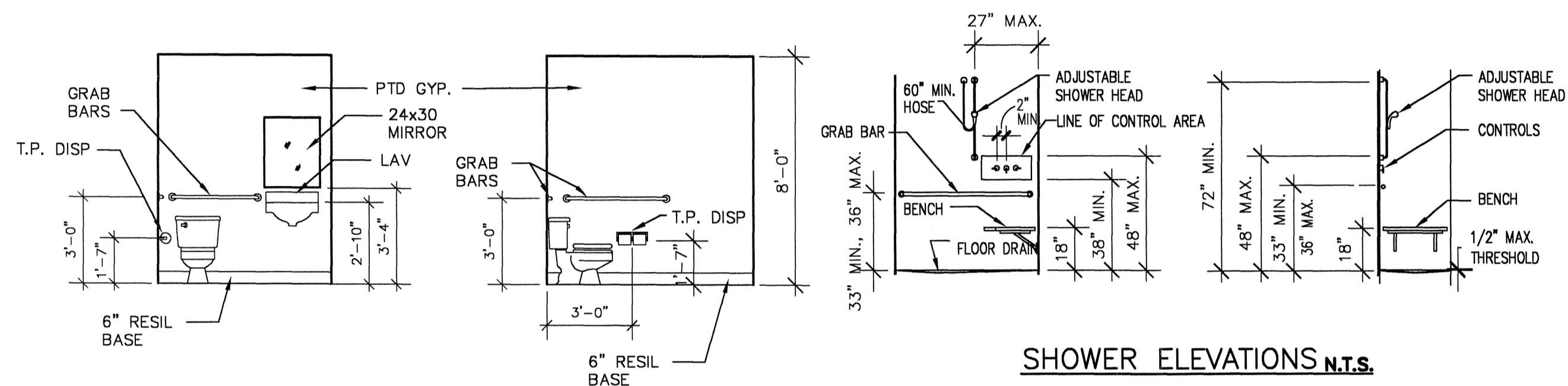
16 OF 32
JOB NUMBER 1590-120

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NOTE: IF 27\"/>

DRINKING FOUNTAINS HIGH-LOW TYPE **N.T.S.**
SEE PLUMBING FOR SPECIFIED FIXTURE



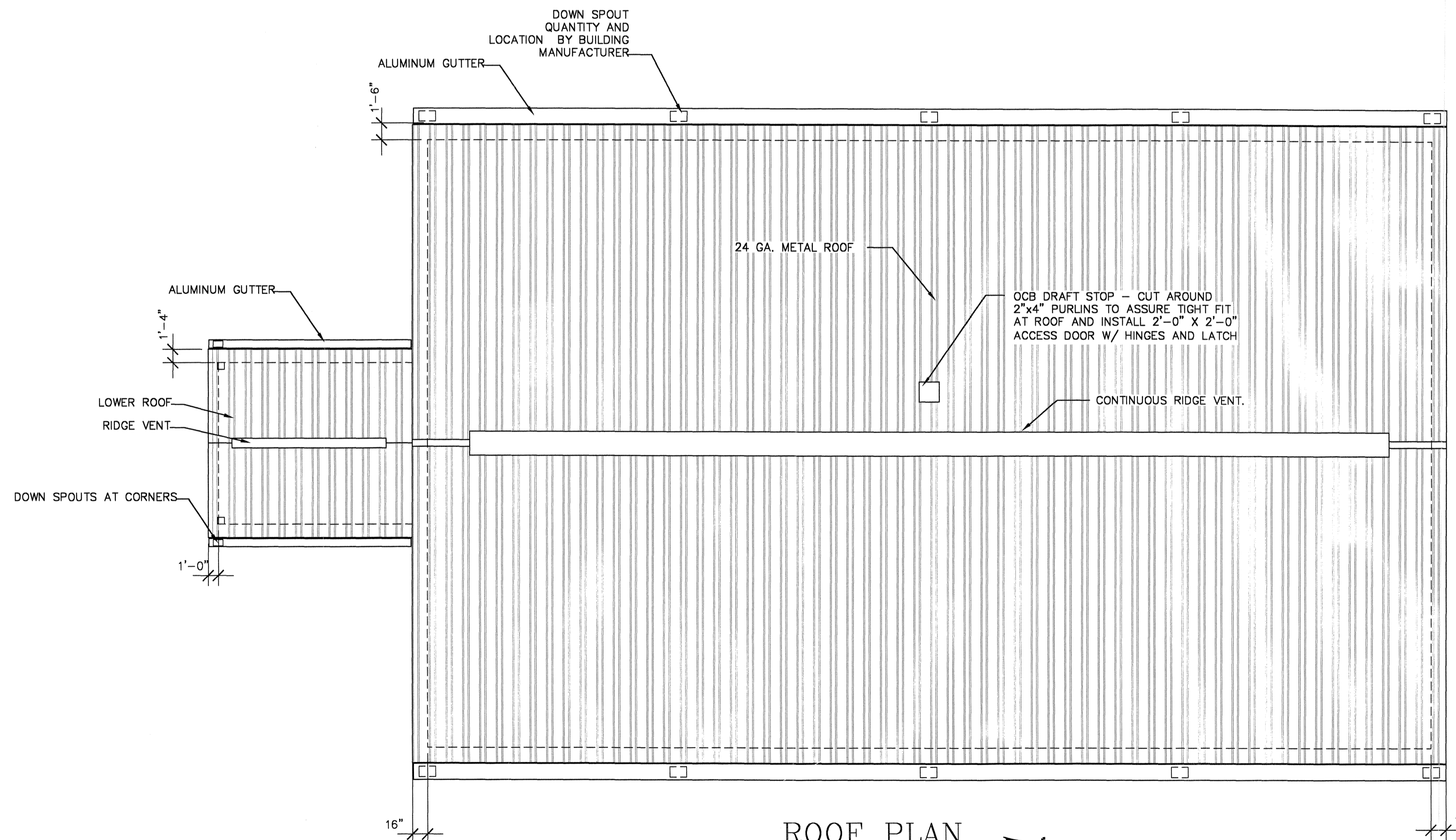
SHOWER ELEVATIONS **N.T.S.**

NOTE:
DETAILS IN THIS DRAWING REPRESENT THE MINIMUM ACCESSIBILITY REQUIREMENTS IN THE PROJECT.

HANDICAP ACCESSIBILITY TYP. MOUNTING HEIGHTS/NOTES	
GRAB BAR (BESIDE TOILET)	2'-9\"/>
GRAB BAR (BEHIND TOILET)	2'-9\"/>
GRAB BAR (AT SHOWER)	2'-9\"/>
GRAB BAR (AT TUB)	2'-9\"/>
LAVATORY	2'-5\"/>
LAVATORY MIRROR	38\"/>
PAPER TOWEL DISPENSER	DISPENSER AREA BELOW 48\"/>
PAPER TOWEL DISP & DISPOSAL	40\"/>
SOAP DISPENSER	40\"/>
SOAP DISH	40\"/>
TOILET PAPER DISPENSER	3'-8\"/>
JANITOR SHELF	54\"/>
WATER COOLER	3'-0\"/>
TYPICAL NOTES	
• GRAB BARS OVER 48\"/>	
• PROVIDE WOOD BLOCKING IN WALL BEHIND ALL WALL MTD.	
• FIXTURES AND ACCESSORIES INSTALLED IN METAL STUD WALLS	

REST ROOM ELEVATIONS

SCALE 1/4\"/>

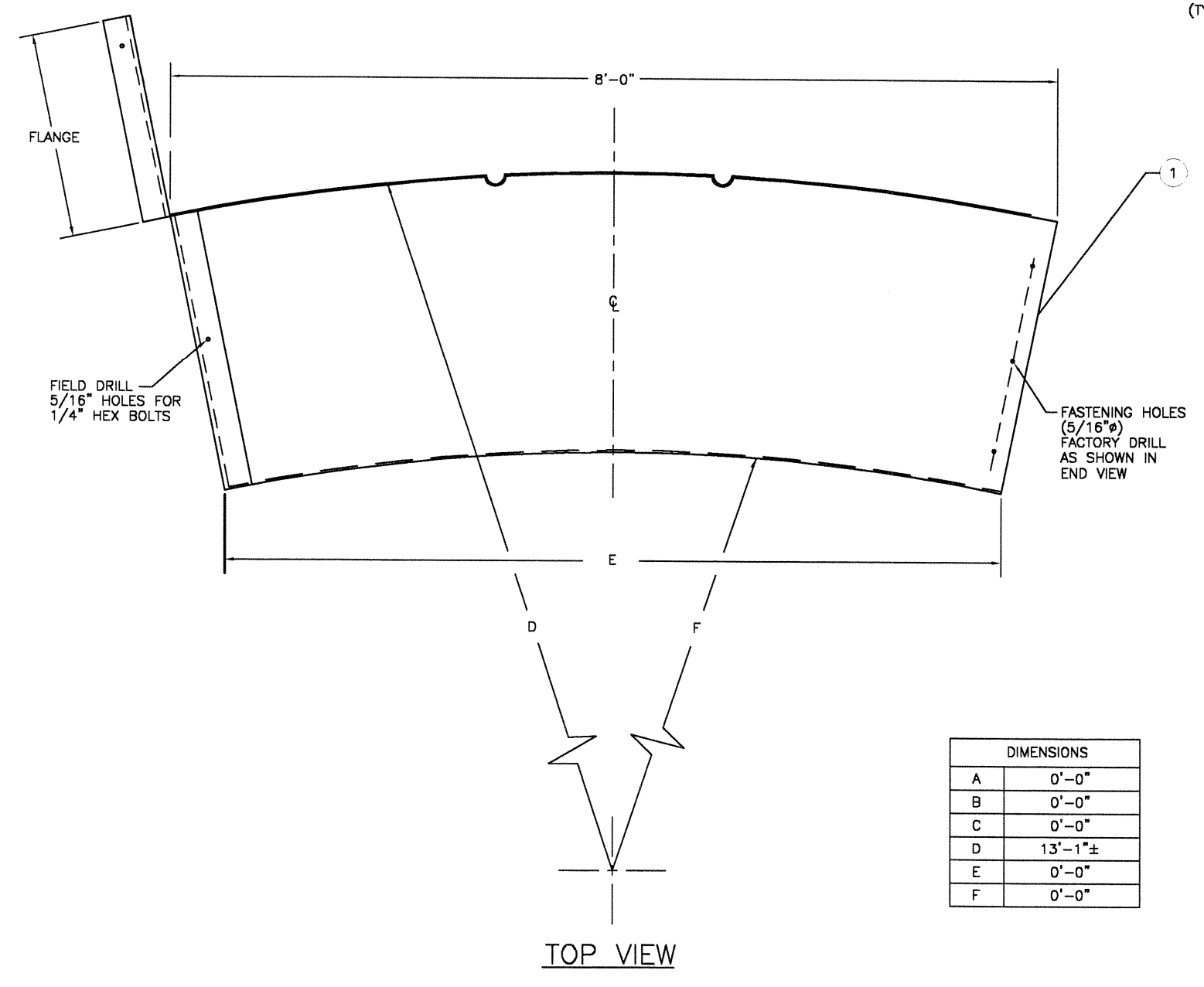
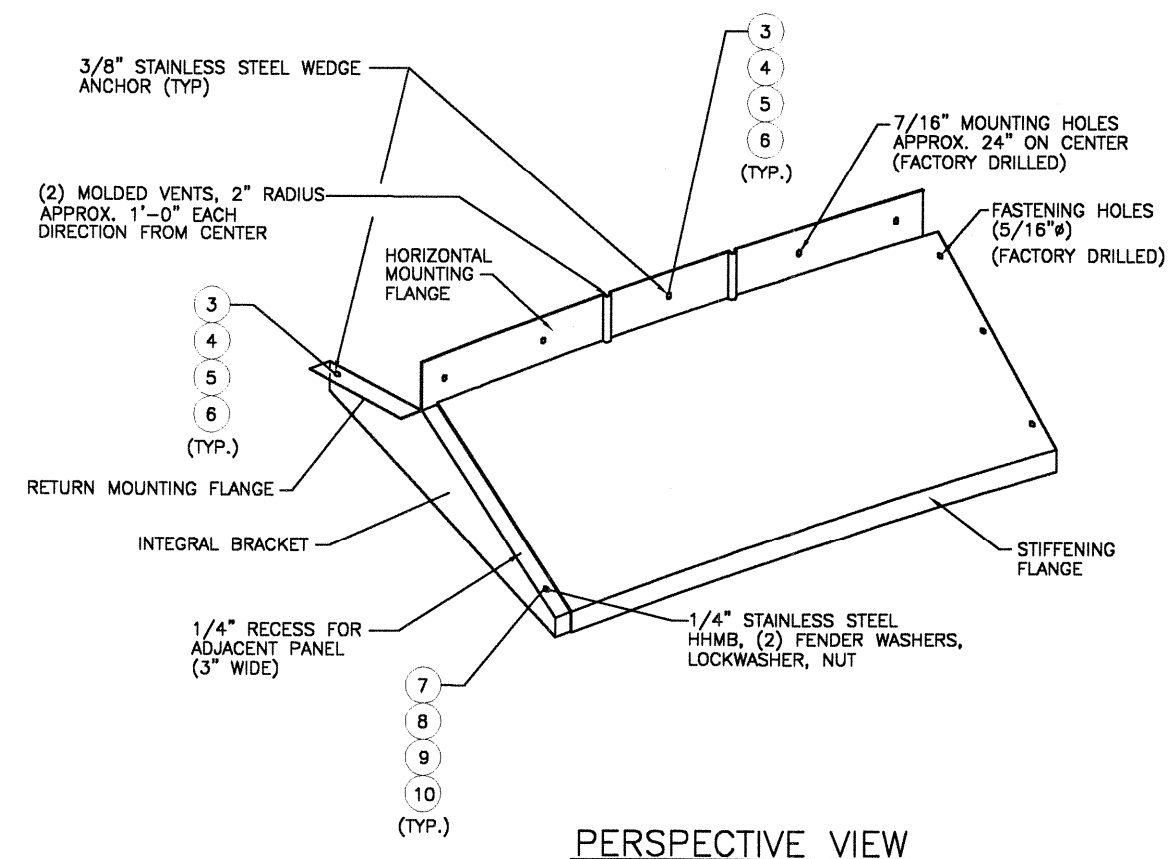
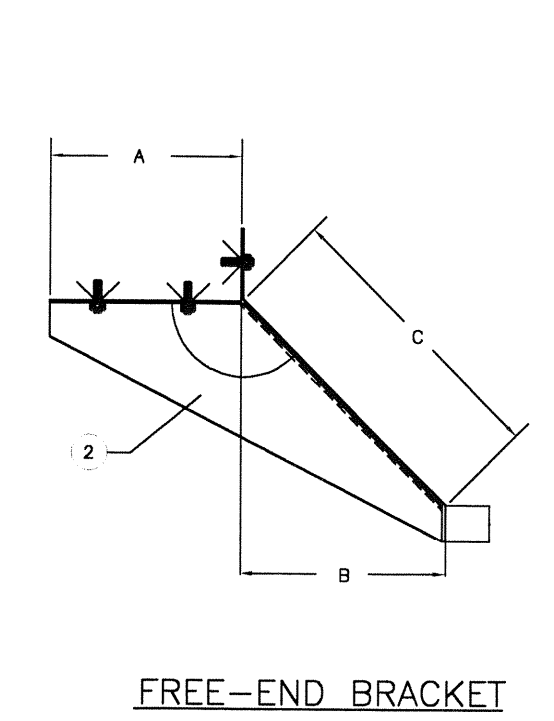
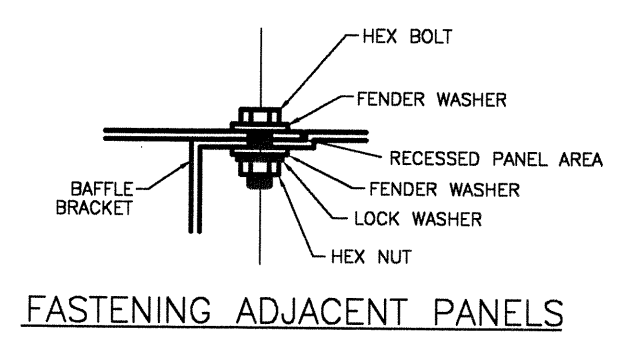
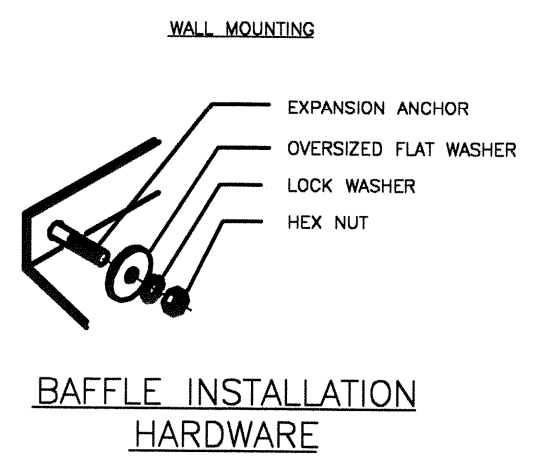


ROOF PLAN

SCALE 1/8\"/>

DESIGNED BY	W.M.V.
CHECKED BY	
REVISION	

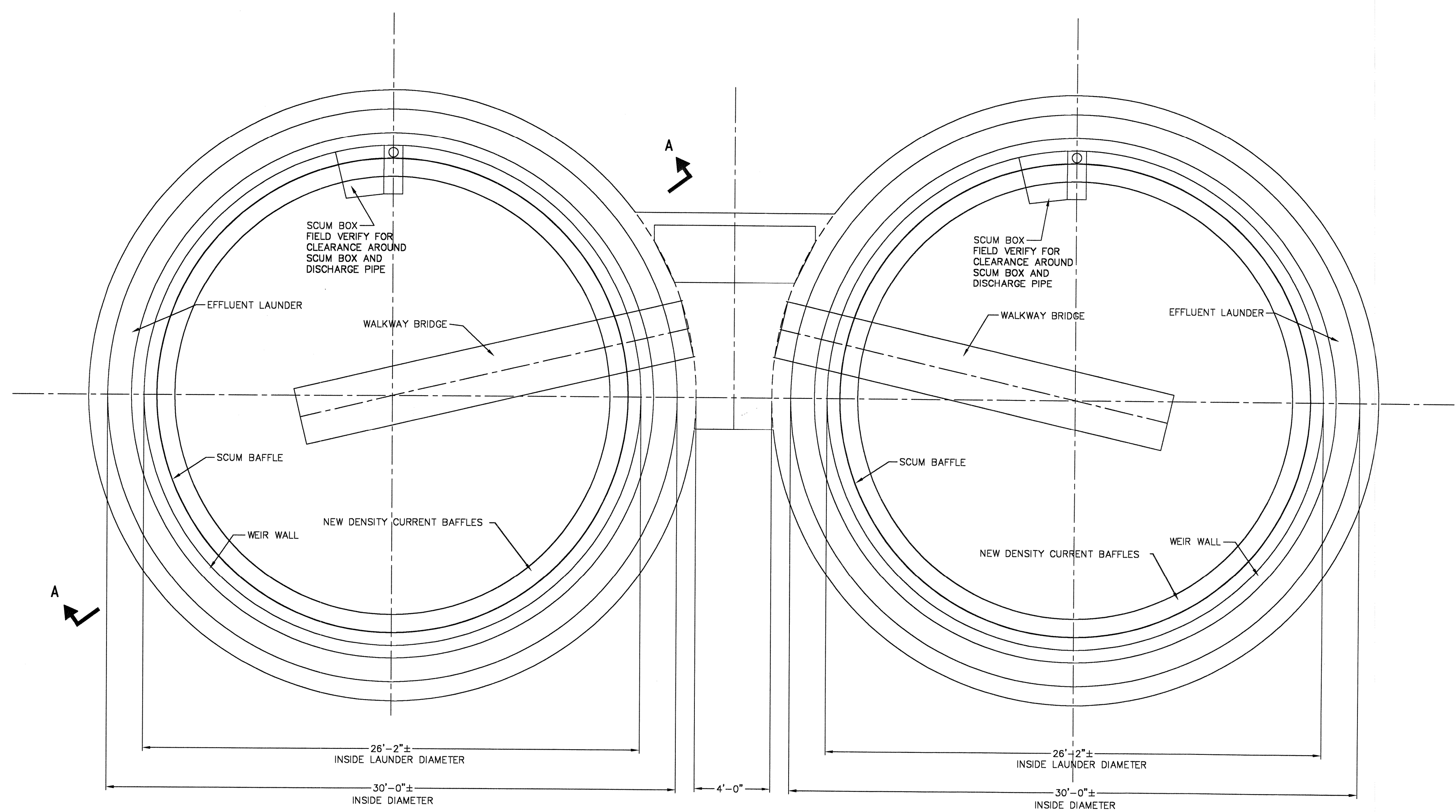
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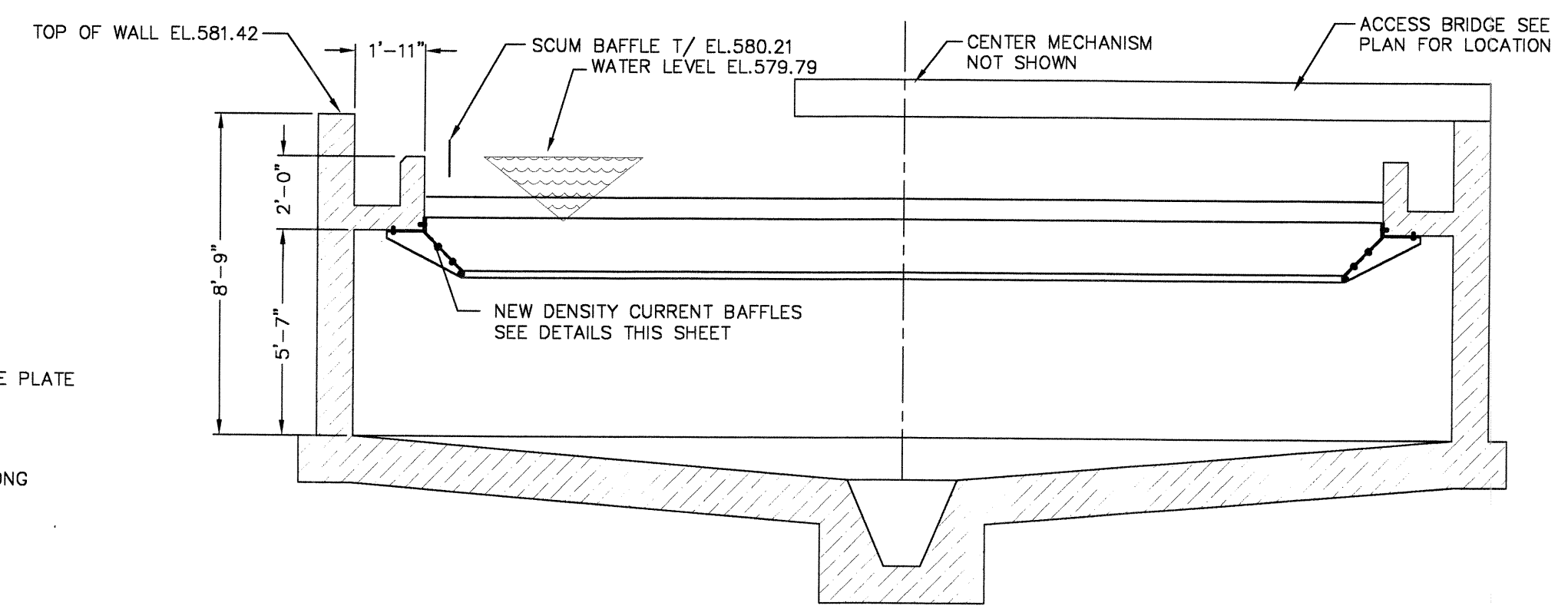
DIMENSIONS	
A	0'-0"
B	0'-0"
C	0'-0"
D	13'-1 1/2"
E	0'-0"
F	0'-0"

MATERIALS - PER TANK		
ITEM	QTY.	DESCRIPTION
1		BAFFLE PANELS
2		FREE END BRACKET
3		3/8" X 3-3/4" EXPANSION ANCHORS
4		3/8" OVERSIZED FLAT WASHERS
5		3/8" LOCK WASHERS
6		3/8" HEX NUTS
7		1/4-20 X 1-1/4" HEX BOLT
8		1/4" FENDER WASHER
9		1/4" LOCK WASHER
10		1/4" HEX NUT

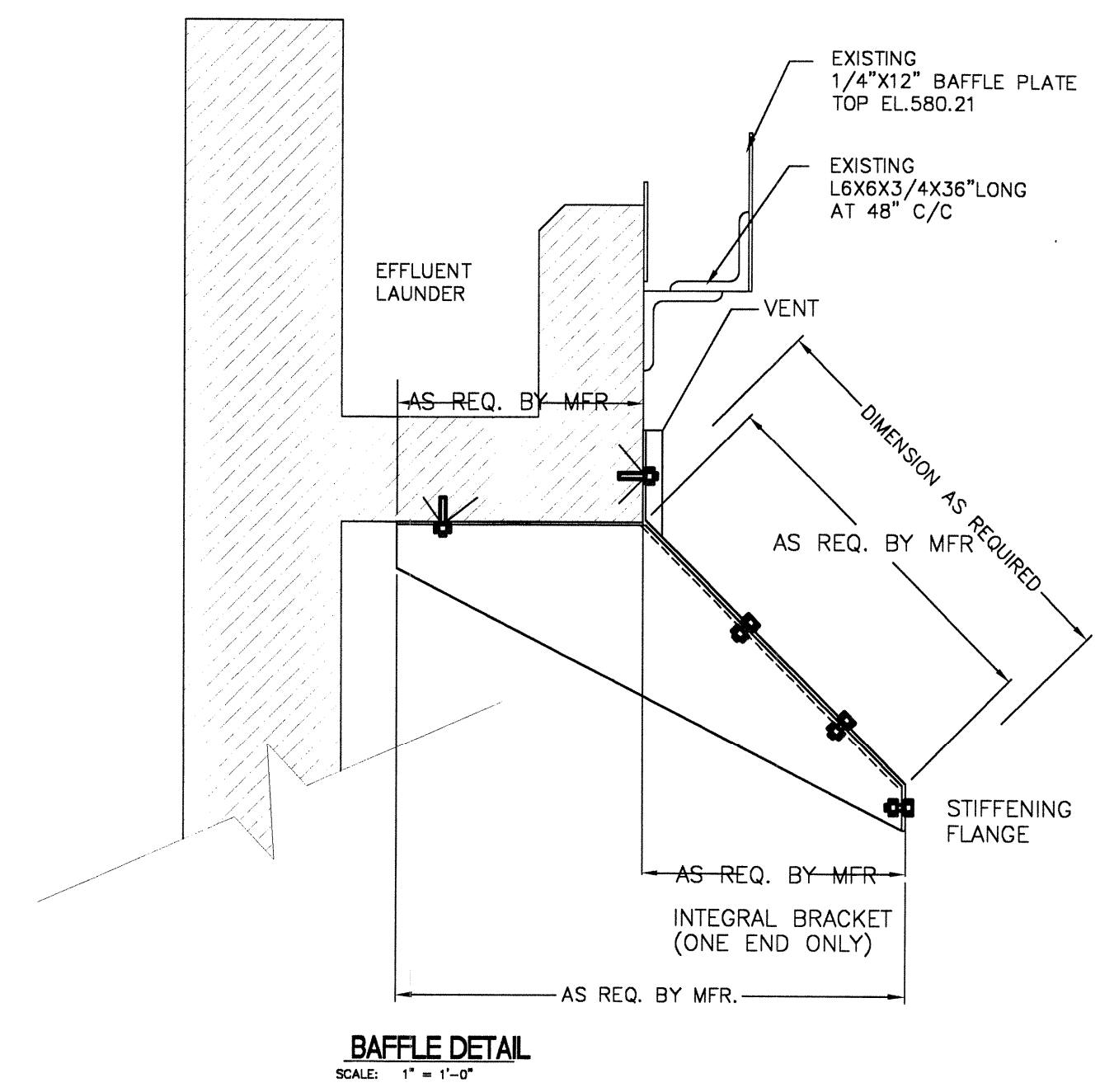
NOTE: ALL DIMENSION TO BE VERIFY AND REVISED AS REQUIRED BY BAFFLE MANUFACTURER, MFG OR MANUFACTURER OR EQUAL SEE SPECIFICATION.



TOP PLAN AT EL.581.42
SCALE: 1/4" = 1'-0"



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



BAFFLE DETAIL
SCALE: 1" = 1'-0"

CONTRACT A



POGEMEYER DESIGN GROUP, INC.
PLANNERS
ENGINEERS
ARCHITECTS
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BOWLING GREEN, OHIO 43402
(419) 352-7537

**CSO IMPROVEMENTS
TANK-RENOVATION
VILLAGE OF OAK HARBOR, OHIO**

**FINAL SETTLING
PLAN, SECT. & DET.**

DRAWN BY CHECKED BY
W.M.V. S.R.W.

REVISION

18
OF
32
JOB NUMBER
1590-120

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GENERAL NOTES

- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE WHEN COMPLETED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE PROCEDURES FOR ERECTION AND CONSTRUCTION SEQUENCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE BUILDING AND ITS OCCUPANTS THROUGHOUT CONSTRUCTION.
- SHOP DRAWINGS REVIEWED BY THE CONTRACTOR AND STAMPED INDICATING APPROVAL SHALL BE SUBMITTED TO THE A/E FOR REVIEW PRIOR TO FABRICATION DETAILING. ALL NECESSARY COMPONENTS, REPRODUCTIONS OF THE CONTRACT DOCUMENTS WILL NOT BE ACCEPTED WITHOUT PRIOR PERMISSION OF A/E.

DESIGN CRITERIA

- ALL DESIGN LOADS SHALL COMPLY WITH THE REQUIREMENTS OF THE 2005 OHIO BUILDING CODE.

FLOOR LIVE	400 psf	UNIFORM
ROOF LIVE	20 psf	MINIMUM
MEZZANINE DECK	125 psf	UNIFORM
 - ROOF SNOW UNIFORM AND DRIFTING BASED ON THE FOLLOWING:

P _s	= 20 psf
P _f	= 22 psf
C _e	= 1.0
I _e	= 1.1
C _t	= 1.0
 - WIND 90 mph BASIC WIND SPEED (3 SECOND GUST)

I _w	= 1.15
EXP	= C
C _{sp}	= ± 0.18 (INTERNAL PRESSURE COEFFICIENT)
 - SEISMIC SEISMIC USE GROUP II

I _c	= 1.25
S _a	= 18%
S ₁	= 5.8%
S _{0.2}	= 0.92%
SITE CLASS	= D
DESIGN CATEGORY	= B
- BASIC SEISMIC-FORCE-RESISTING SYSTEM
BEARING WALL SYSTEM - LIGHT FRAMED WALLS SHEATHED WITH WOOD
R = 6
BASE SHEAR = 0.035W
ANALYSIS PROCEDURE
EQUIVALENT LATERAL FORCE PROCEDURE
- SPECIAL LOADS CONSTRUCTION LOADS AND ERECTION STRESSES BY CONTRACTOR

FOUNDATIONS AND EARTHWORK

- FOUNDATIONS SHALL BEAR ON UNDISTURBED SOIL OR ENGINEERED FILL PROVIDING A SAFE BEARING CAPACITY OF 2,000 PSF (MIN). MATERIAL AT BEARING ELEVATIONS WHICH DOES NOT CONFORM WITH THESE REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE A/E FOR REVIEW AND DETERMINATION.
- FILL UNDER BUILDING SLABS, FININGS, CURBS, WALKS, ETC. SHALL BE MADE WITH COURSE SAND, GRAVEL OR COURSED STONE COMPACTED TO NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557.
- THE STABILITY AND POSITION OF WALLS SHALL BE MAINTAINED DURING BACKFILLING BY BRACING OF THE WALL OR PLACEMENT OF THE FILL SUCH THAT THE HEIGHT OF FILL ON EACH SIDE OF THE WALL IS APPROXIMATELY EQUAL.
- UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS FOUNDATIONS SHALL EXTEND BELOW LOCAL FROST DEPTHS.
- ALLOW FOR ADDITIONAL #6 DOWEL "L" TIE TO BOTTOM MAT OF REINFORCING AND EXTEND VERTICALLY UP MINIMUM 12" ABOVE TOP OF FOOTING FOR GROUNDING CONNECTION (SEE ELECTRICAL). VERIFY / COORDINATE LOCATION.

CONCRETE

- DESIGN, FURNISH, AND PLACE CONCRETE IN ACCORDANCE WITH THE LATEST SPECIFICATIONS OF THE ACI.
- UNLESS NOTED OR SPECIFIED OTHERWISE, CONCRETE SHALL BE CONTROLLED STONE OR GRAVEL CONCRETE. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM 28 DAY COMPRESSIVE STRENGTHS:

ALL CONCRETE FOR MAINTENANCE BUILDING	4000 PSI
ALL CONCRETE WORK FOR PUMP PITS	5000 PSI
- EXTERIOR CONCRETE FOR CONCRETE SUBJECT TO FREEZE-THAW CYCLING SHALL BE AIR-ENTRAINED (EN 110).
- DESIGN, DETAIL, FABRICATE, AND ERECT REINFORCING STEEL ACCORDING TO THE LATEST AIA AND CSI SPECIFICATIONS FROM ASTM A-615, GRADE 60 MATERIAL.
- WALL AND FOOTING REINFORCING SHALL BE HOOKED AROUND CORNERS A MINIMUM OF 30 BAR DIAMETERS OR SEPARATE CORNER BARS SHALL BE PROVIDED.
- REINFORCING BARS SHALL LAP A MINIMUM OF 30 BAR DIAMETERS, BUT NOT LESS THAN 12". LAPS IN MASONRY CONSTRUCTION SHALL BE 48 BAR DIAMETERS.
- PROVIDE A 1" NOMINAL CHAMFER AT ALL EXPOSED CORNERS OF BEAMS, COLUMNS, AND WALLS.
- AT ALL CONSTRUCTION JOINTS PROVIDE KEYWAYS 1 1/2" DEEP BY 1/3 THE WIDTH OF THE MEMBER (3 1/2" MIN).
- PROVIDE CONTROL JOINTS IN FLOOR SLABS AT 20'-0" CENTERS MAXIMUM EACH WAY UNLESS OTHERWISE NOTED ON DRAWINGS.
- PROVIDE THE FOLLOWING PROTECTION (COVER) OVER REINFORCING:

COLUMNS, BEAMS, AND GRIDDERS	1 1/2"
SLABS AND WALLS	3/4"
MEMBERS IN CONTACT WITH OR OVER WATER	2"
FORMED MEMBERS IN CONTACT WITH EARTH	2"
MEMBERS PLACED AGAINST EARTH	3"
- PROVIDE #3 HORIZONTAL DOWELS IN FLOOR SLABS AT ALL RE-ENTRANT CORNERS AND COLUMN LOCATIONS. DOWELS SHALL LAP 12" MIN. PAST EACH POINT OF CROSSING AT COLUMNS AND EXTEND 1'-0" EACH WAY PAST EACH RE-ENTRANT CORNER.

MISCELLANEOUS METALS

- UNLESS OTHERWISE SHOWN ON THE DRAWINGS, PROVIDE LOOSE ANGLE UNITS OVER ALL MASONRY OPENINGS AND RECESSES AS REQUIRED. UNITS NOT SCHEDULED ON DRAWINGS SHALL CONSIST OF A SINGLE ANGLE WITH A 1 1/2" MIN. LEGS FOR EACH FOUR INCHES OF WALL THICKNESS. ANGLES SHALL BE AS FOLLOWS:

MASONRY OPENING	ANGLE SIZE	BEARING (EACH END)
4'-0" (OR LESS)	3 1/2" x 3 1/2" x 1/4"	4"
4'-0" - 5'-0"	4" x 4" x 1/4"	4"
5'-0" - 6'-0"	4" x 4" x 1/4"	4"
6'-0" - 8'-0"	6" x 6" x 1/4"	4"
8'-0" - 10'-0"	6" x 6" x 1/4"	4"
- ALUMINUM IN CONTACT WITH CONCRETE OR A DISSIMILAR METAL SHALL BE COATED WITH A BITUMASTIC PAINT.

STRUCTURAL STEEL

- DESIGN, DETAIL, FABRICATE, AND ERECT STEEL IN ACCORDANCE WITH THE LATEST AISC SPECIFICATIONS.
- WIDE FLANGE SHAPES SHALL BE ASTM A992 (MINIMUM F_y = 50,000 psi); TUBING ASTM A500 GRADE B; AND PIPE ASTM A53 GRADE B. ALL OTHER SHAPES ASTM A992.
- ALL STRUCTURAL STEEL SHALL HAVE ONE SHOP COAT OF APPROVED PRIMER PAINT. PARTS INACCESSIBLE AFTER ERECTION SHALL RECEIVE TWO COATS.
- CONNECTIONS SHALL BE SHOP WELDED AND FIELD BOLTED UNLESS OTHERWISE SHOWN. UNLESS INDICATED OTHERWISE ON THE DRAWINGS, CONNECTIONS SHALL DEVELOP THE FULL STRENGTH OF THE MEMBER AS DETERMINED BY THE LOAD TABLES IN THE AISC MANUAL.
- BOLTED CONNECTIONS SHALL BE OF 3/4" DIA., A325, WITH A MINIMUM OF 2 BOLTS PER CONNECTION.
- ALL WELDING SHALL BE IN ACCORDANCE WITH THE LATEST AISC AND AWS SPECIFICATIONS USING E70 ELECTRODES.
- BASE PLATES SHALL BE WELDED TO COLUMNS.
- ALL COLUMNS SHALL HAVE 3/4" NON SHRINK GROUT AND A 1/4" LEVELING PLATE BETWEEN THE BASE PLATE AND CONCRETE.
- ANCHOR BOLTS SHALL BE A307, 3/4" DIA. WITH A MINIMUM OF 8" PLUS A HOOK EMBEDDED IN THE CONCRETE UNLESS NOTED OTHERWISE.

CARPENTRY

- ALL WOOD CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION".
- LUMBER AND WOOD FRAMING SHALL NOT HAVE A MOISTURE CONTENT GREATER THAN 19% BY WEIGHT WHEN PLACED INTO THE CONSTRUCTION.
- LUMBER FOR FRAMING SHALL BE SPRUCE-PINE-FIR #2 OR BETTER.
- PRESERVATIVE OR FIRE RETARDANT TREATED LUMBER SHALL BE SOUTHERN PINE #2 OR BETTER. PRESERVATIVE TREATMENT SHALL BE A MINIMUM OF RETENTION. POSTS AND OTHER MEMBERS BURNED IN CONCRETE OR SOIL SHALL BE DIA RETENTION. FASTENERS AND CONNECTORS SHALL BE STAINLESS STEEL OR APPROVED SUBSTITUTE.
- PROVIDE WOOD FRAMING AS SHOWN AND AS REQUIRED TO COMPLETE THE PROJECT.
 - STUDS SHALL BE OF SIZE AND SPACING AS SHOWN ON THE DRAWINGS, DOUBLED AROUND OPENINGS AND TRIPLED AT CORNERS.
 - PROVIDE PLATES TOP AND BOTTOM OF STUD WALLS (DOUBLE TOP PLATES). SPLICES IN TOP PLATES SHALL BE MADE OVER STUDS AND STAGGERED.
- JOIST, RAFTERS, AND OTHER FRAMING MEMBERS SHALL BE SECURELY ANCHORED TO THEIR SUPPORTING MEMBERS AND BOLTED TO PREVENT ROTATION. PROVIDE GALVANIZED METAL CONNECTORS WHERE INDICATED.
- ALL HEADERS SHALL BE MULTIPLE 2 X 10's (1 FOR EACH NOMINAL 2" OF WALL), UNLESS OTHERWISE NOTED.
- ALL HEADERS SHALL BEAR ON MINIMUM 1 STUD, SISTERED TO 1 FULL HEIGHT STUD UNLESS OTHERWISE NOTED.
- UNLESS OTHERWISE NOTED, ALL BEAMS BEARING ON WALLS SHALL BE SUPPORTED BY 1 STUD FOR EACH NOMINAL 2" OF BEAM, SISTERED TO 1 FULL HEIGHT STUD.

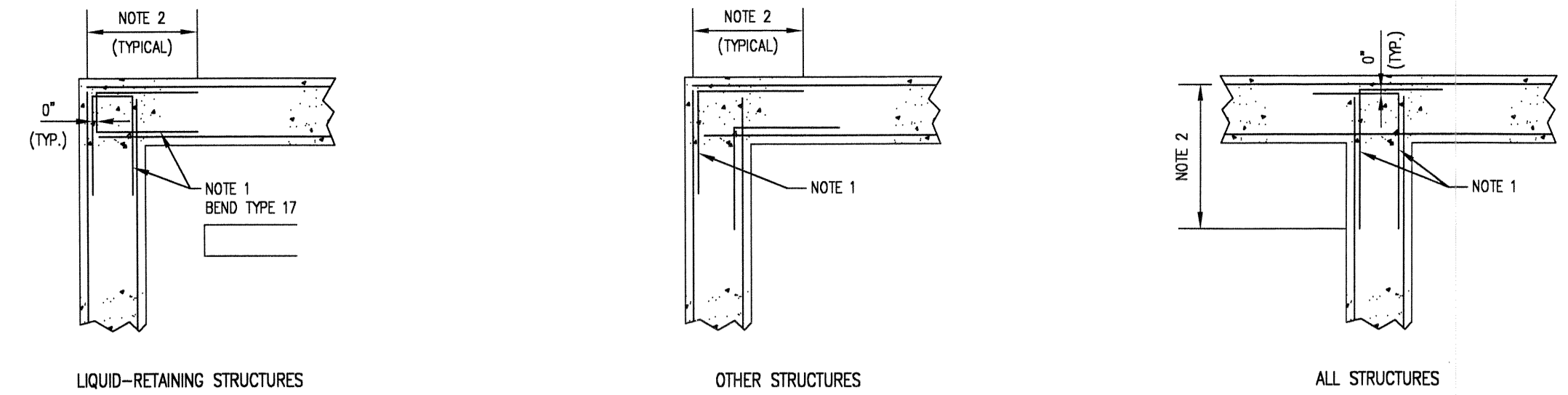
WOOD ROOF TRUSSES

- ROOF TRUSSES SHALL BE DESIGNED AND FABRICATED IN ACCORDANCE WITH THE LATEST TRUSS PLATE INSTITUTE SPECIFICATIONS.
- STRUCTURAL COMPUTATIONS AND DETAILS SHALL BE SUBMITTED FOR EACH TRUSS CONFIGURATION IN THE LOCALITY OF THE PROJECT SHALL BE SUBMITTED FOR EACH TRUSS CONFIGURATION.
- TRUSSES SHALL BE DESIGNED FOR 10 PSF DEAD LOAD AND 25 PSF LIVE LOAD ALL ON THE TOP CHORD, AND 100 LB LOAD ON THE BOTTOM CHORD, PLUS ANY ADDITIONAL LOADING SHOWN ON THE DRAWINGS. SNOW LOADS SHALL BE APPLIED ACCORDING TO THE APPLICABLE BUILDING CODE INCLUDING INCREASES DUE TO DRIFTING, SLICE OFF FROM AN ADJACENT ROOF, AND UNBALANCED LOADS.
- PROVIDE GALVANIZED METAL TRUSS CLIPS TO ANCHOR EACH END OF TRUSS. SIMPSON 1023 (OR APPROVED SUBSTITUTE) MINIMUM UNLESS NOTED OTHERWISE.
- ALL TRUSS HANGERS SHALL BE DESIGNED AND SUPPLIED BY THE TRUSS MANUFACTURER TO ACCOMMODATE TRUSSES SUPPLIED.
 - UNLESS SHEATHED WITH APA RATED SHEATHING, PROVIDE CONTINUOUS LATERAL BRACING OF THE TOP CHORD AS INDICATED ON THE DRAWINGS. PROVIDE DIAGONAL BRACING ON BOTH SIDES OF THE ROOF AT END BAYS AND AT 20' INTERVALS FOR BUILDINGS OVER 60' IN LENGTH.
 - PROVIDE DIAGONAL BRACING IN THE PLANE OF WEB MEMBERS AT 12'-16" INTERVALS ALONG THE LENGTH OF TRUSSES AT END BAYS AND AT 20' INTERVALS ALONG THE LENGTH OF THE BUILDING.
 - UNLESS CONTINUOUSLY SHEATHED PROVIDE CONTINUOUS LATERAL BRACING OF THE BOTTOM CHORD AT 8'-10" INTERVALS AT OR NEAR PANEL POINTS OR AS INDICATED ON THE DRAWINGS. PROVIDE DIAGONAL BRACING ON BOTH SIDES OF THE ROOF AT END BAYS AND AT 20'-0" INTERVALS FOR BUILDINGS OVER 60' IN LENGTH.

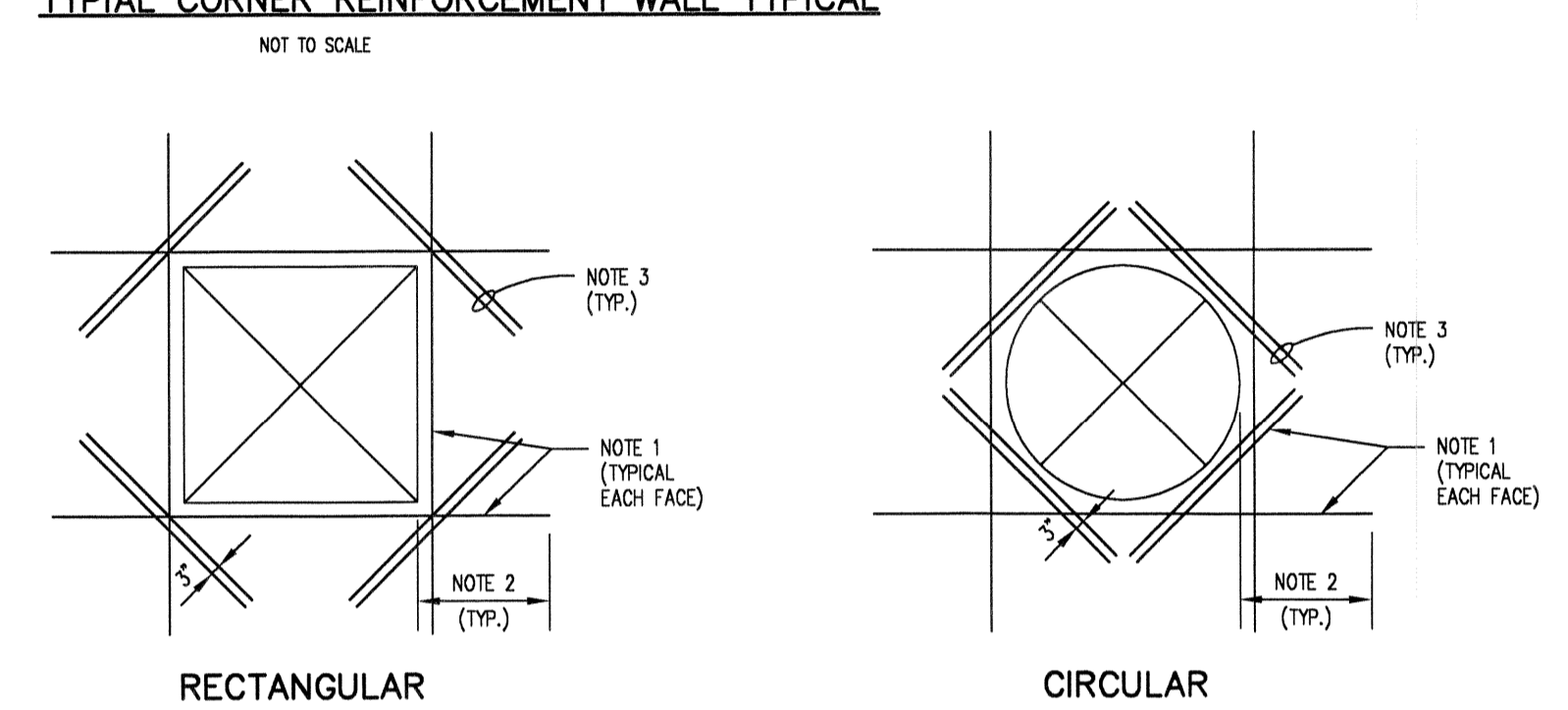
LAMINATED VENEER LUMBER (LVL)

- PARALLEL LAMINATED VENEER LUMBER SHALL BE MANUFACTURED FROM APPROPRIATE VENEERS GLED UP IN A CONTINUOUS PROCESS WITH ALL GRAIN PARALLEL WITH THE LENGTH OF THE MEMBER. LVL SHALL BE MANUFACTURED IN A PLANT AND UNDER PROCESSES APPROVED BY THE NATIONAL RESEARCH BOARD.
- LVL SHALL BE OF SINGLE ONE-PIECE LENGTH FREE OF FINGER JOINTS, SCARF JOINTS OR MECHANICAL CONNECTIONS IN FULL LENGTH MEMBERS.
- DESIGN SHALL BE IN ACCORDANCE WITH PROVISIONS OF THE "NATIONAL DESIGN SPECIFICATION FOR WOOD".
- MINIMUM ALLOWABLE DESIGN PARAMETERS SHALL BE:

E	= 2000000 PS
F _b	= 2800 PS
F _v	= 280 PS



TYPICAL CORNER REINFORCEMENT WALL TYPICAL

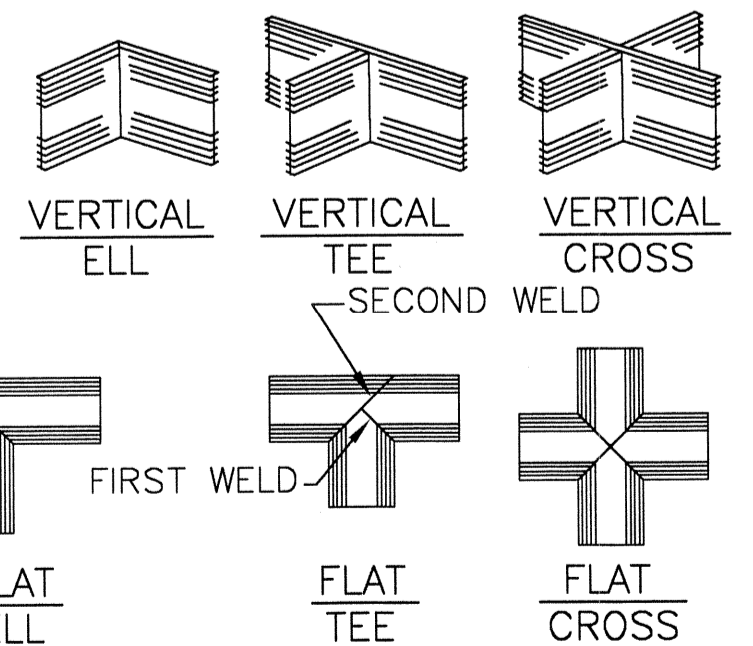
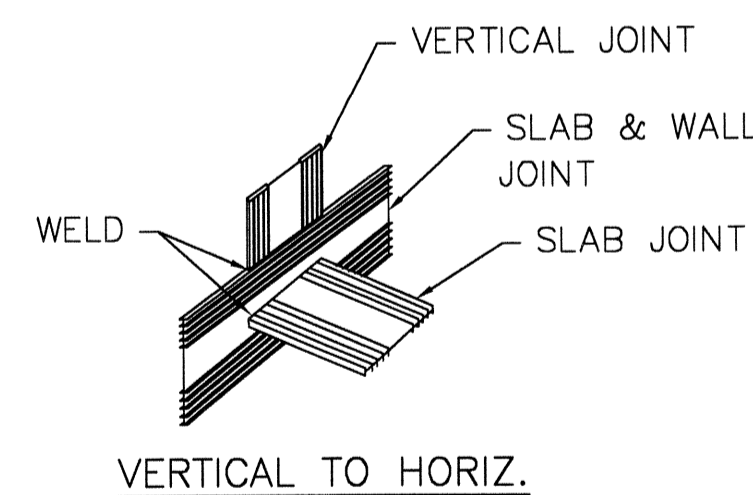
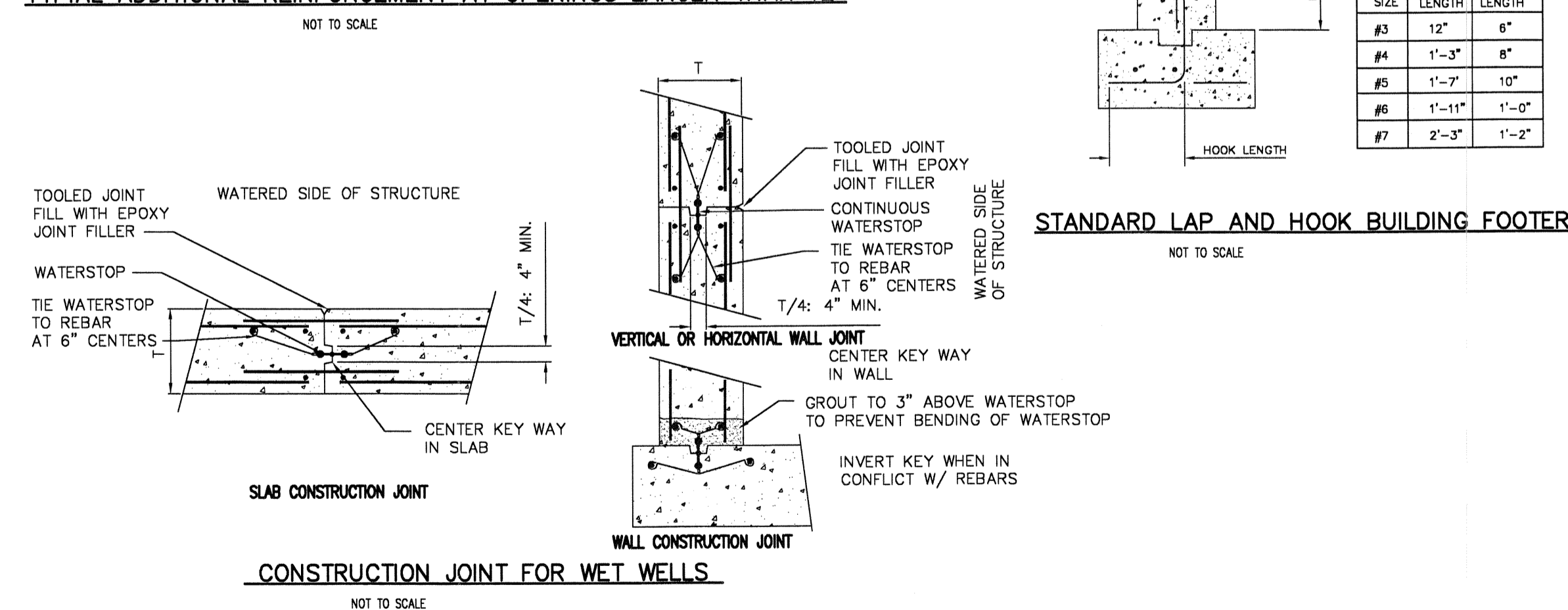


REINFORCEMENT AT OPENING NOTES:

- ADDITIONAL REINFORCEMENT EQUAL IN AREA TO REINFORCEMENT CUT BY OPENING.
- LAP SPlice LENGTH FOR TOP BARS. (40 BAR DIAMETERS)
- DIAGONAL BARS - EACH FACE, 2 EACH CORNER - SIZE AS FOLLOWS:

CONC. THICKNESS	BAR SIZE	LENGTH
LESS THAN 12"	#4	3'-0"
12" TO 18"	#5	3'-6"
GREATER THAN 18"	#6	4'-0"

TYPICAL ADDITIONAL REINFORCEMENT AT OPENINGS LARGER THAN 12"



WATERSTOP CONNECTION DETAILS



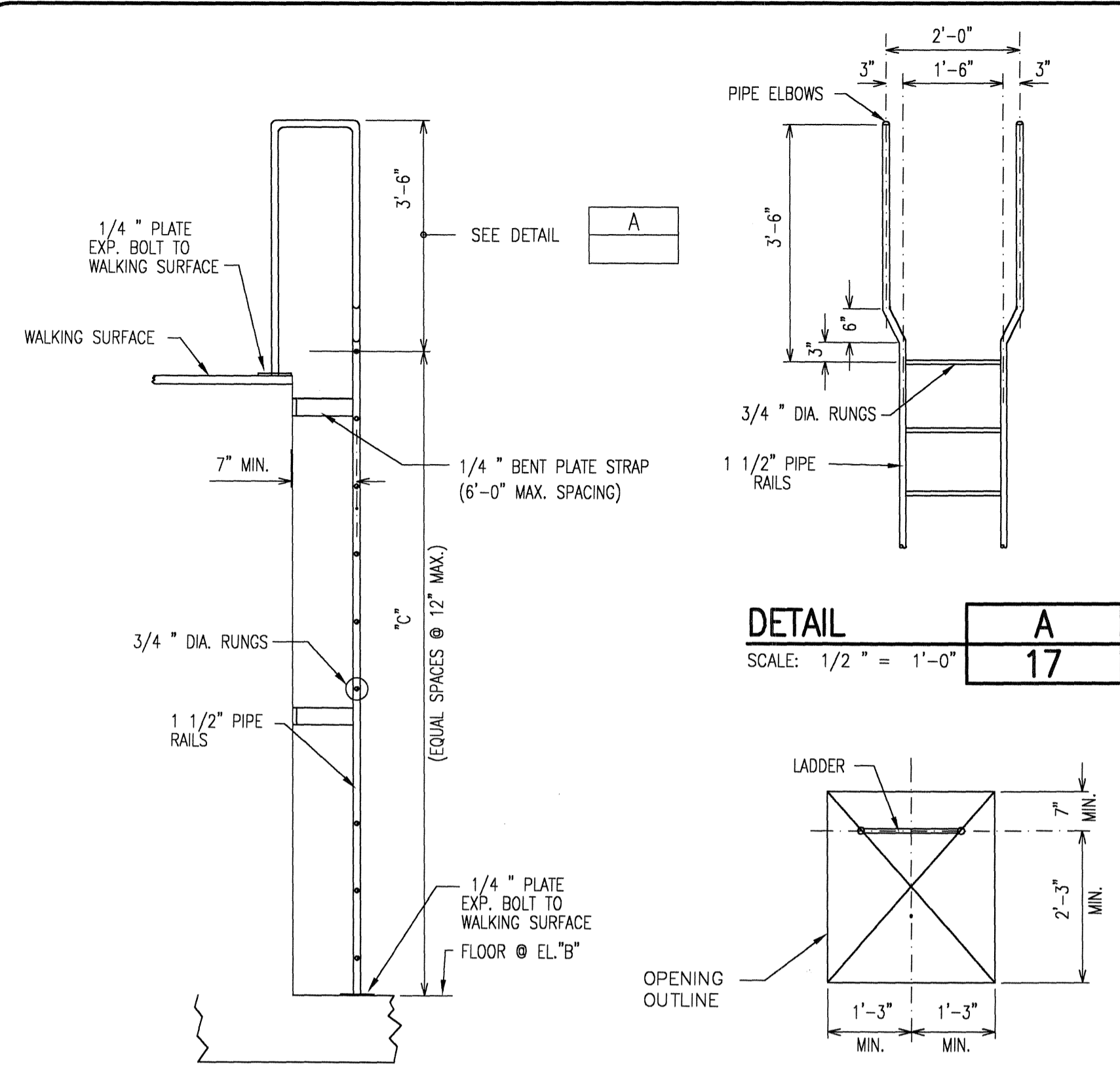
POGEMEYER DESIGN GROUP, INC.
ARCHITECTS ENGINEERS PLANNERS
1168 NORTH MAIN STREET
BOWLING GREEN, OHIO 43402
(419) 352-7537

**CSO IMPROVEMENTS
CSO BASIN AND PUMP STATION
VILLAGE OF OAK HARBOR, OHIO**

**STRUCTURAL
DETAILS AND
GENERAL NOTES**

DESIGNED BY: _____
CHECKED BY: _____
W.M.V.
REVISION

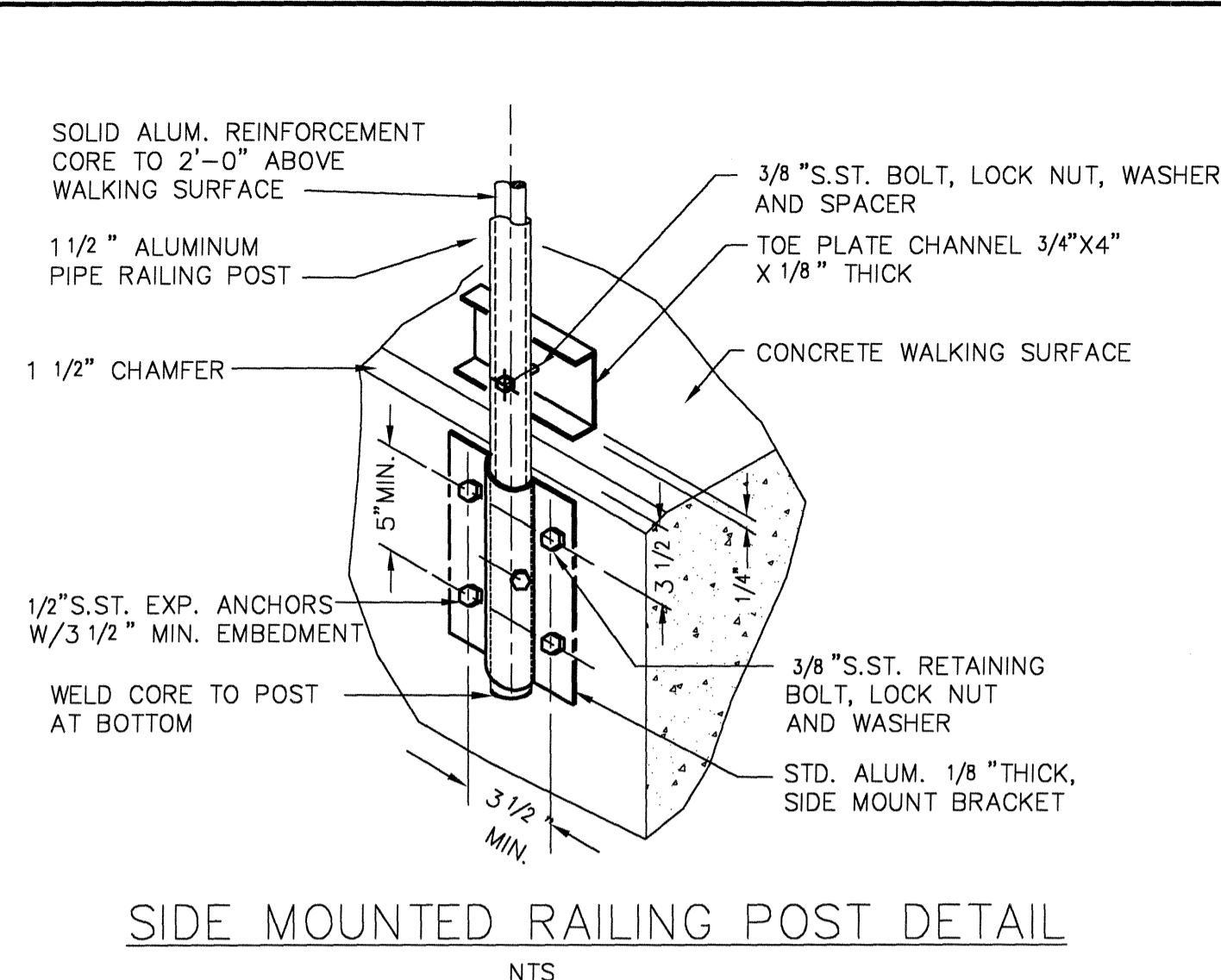
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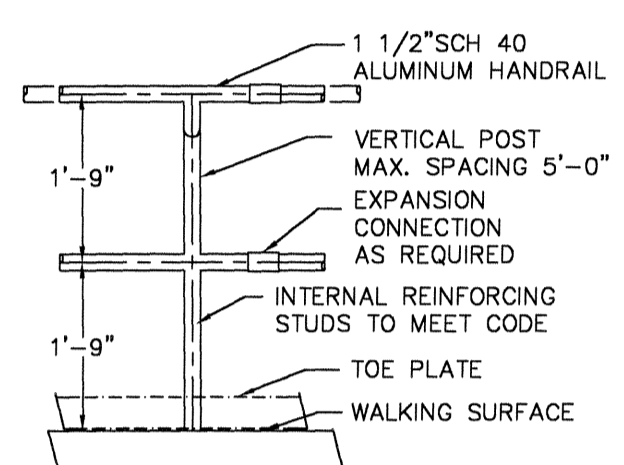
**TYPICAL VERTICAL LADDER
DETAIL - TYPE A**
SCALE: 1/2" = 1'-0"

**LADDER CLEARANCE
DIMENSIONS**
SCALE: 1/2" = 1'-0"

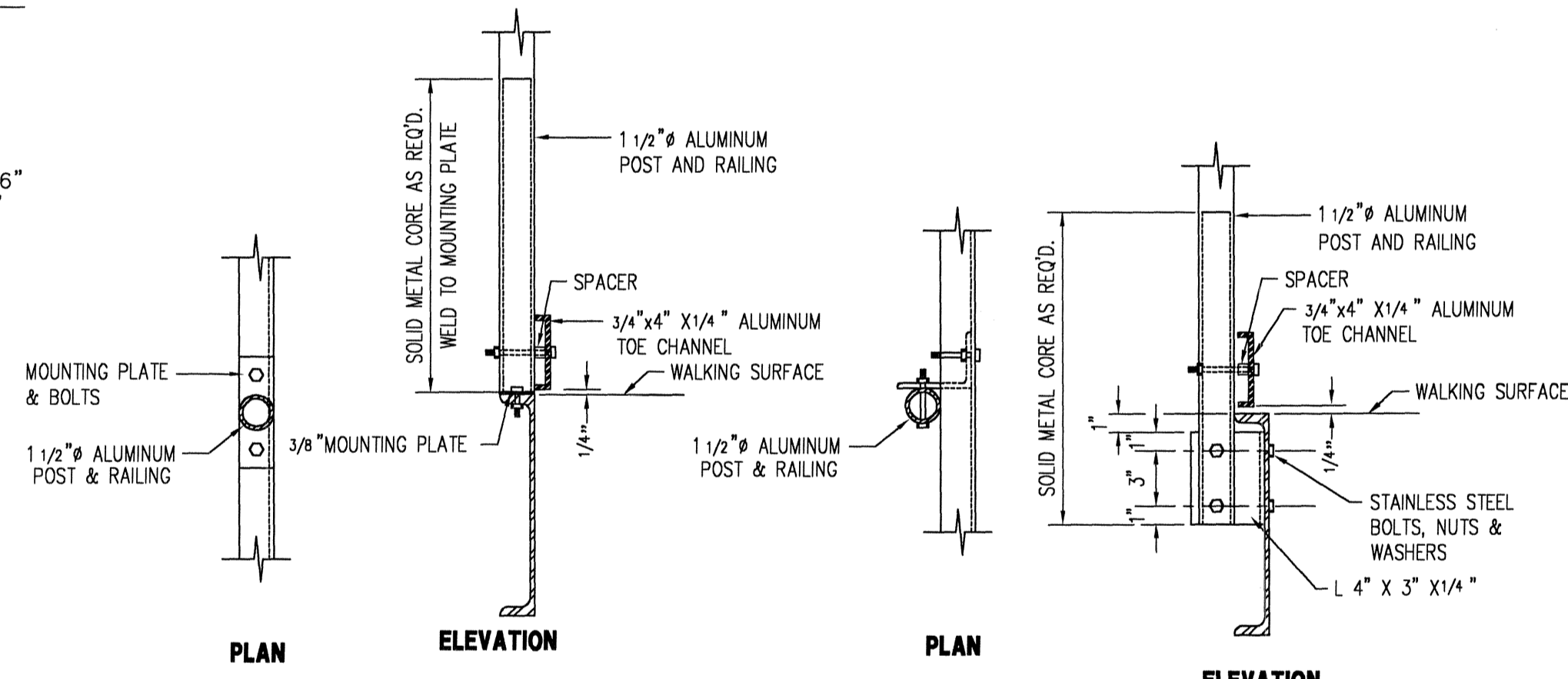
- GENERAL NOTES:**
- 1.-200LB CONCENTRATED LOAD AT CENTER OF RUNG
 - 2.-MAX. DISTANCE BETWEEN RUNGS 12" MIN. LENGTH 16"
 - 3.-DISTANCE FROM CENTER LINE OF RUNG TO WALL 7"
 - 4.-LADDER SHALL MEET THE MOST CURRENT OBBCA AND OSHA CODES
 - 5.-MATERIALS OF CONSTRUCTION SHALL BE ALUMINUM WITH STAINLESS STEEL FASTENERS



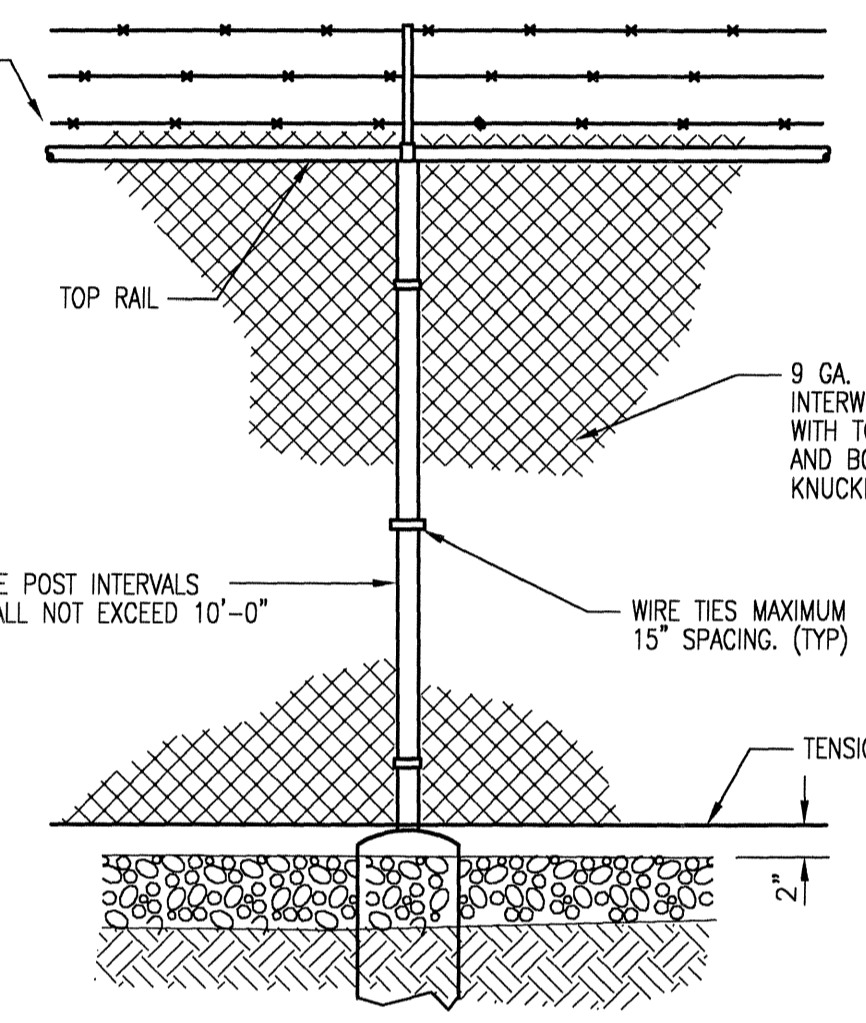
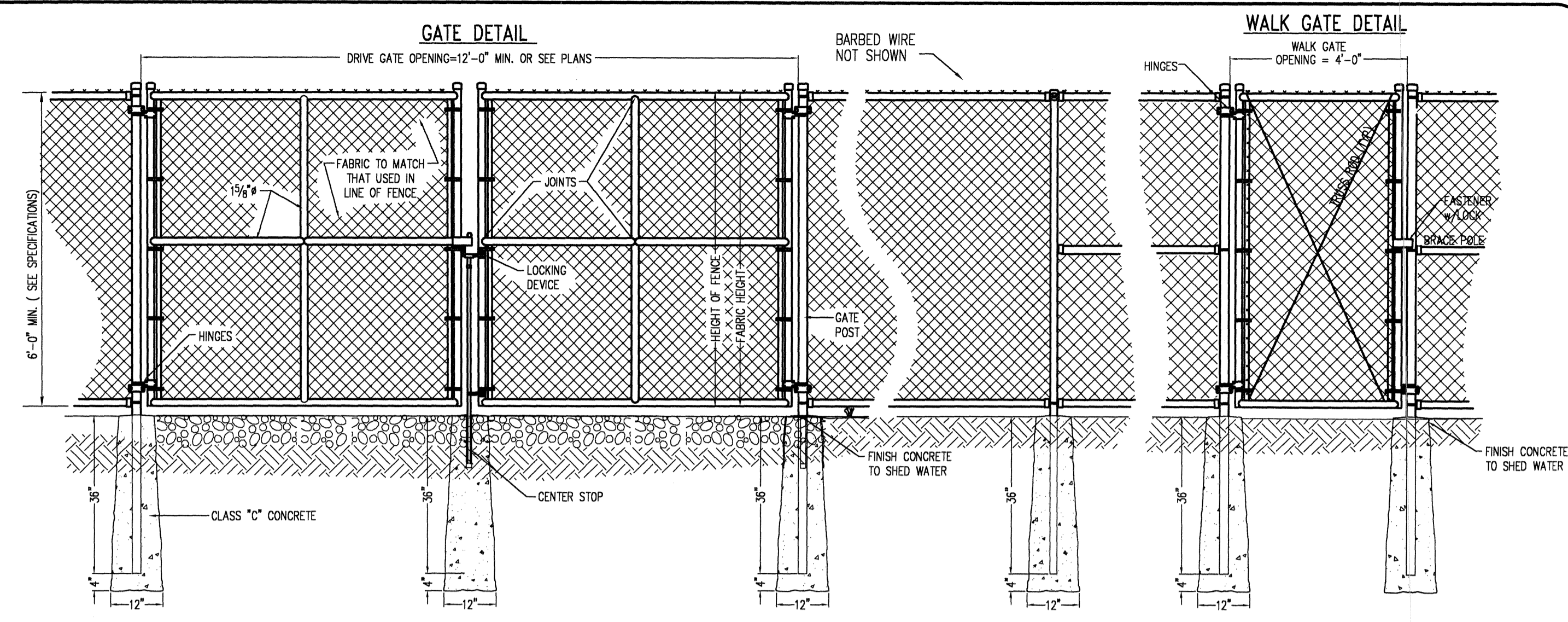
SIDE MOUNTED RAILING POST DETAIL
NTS



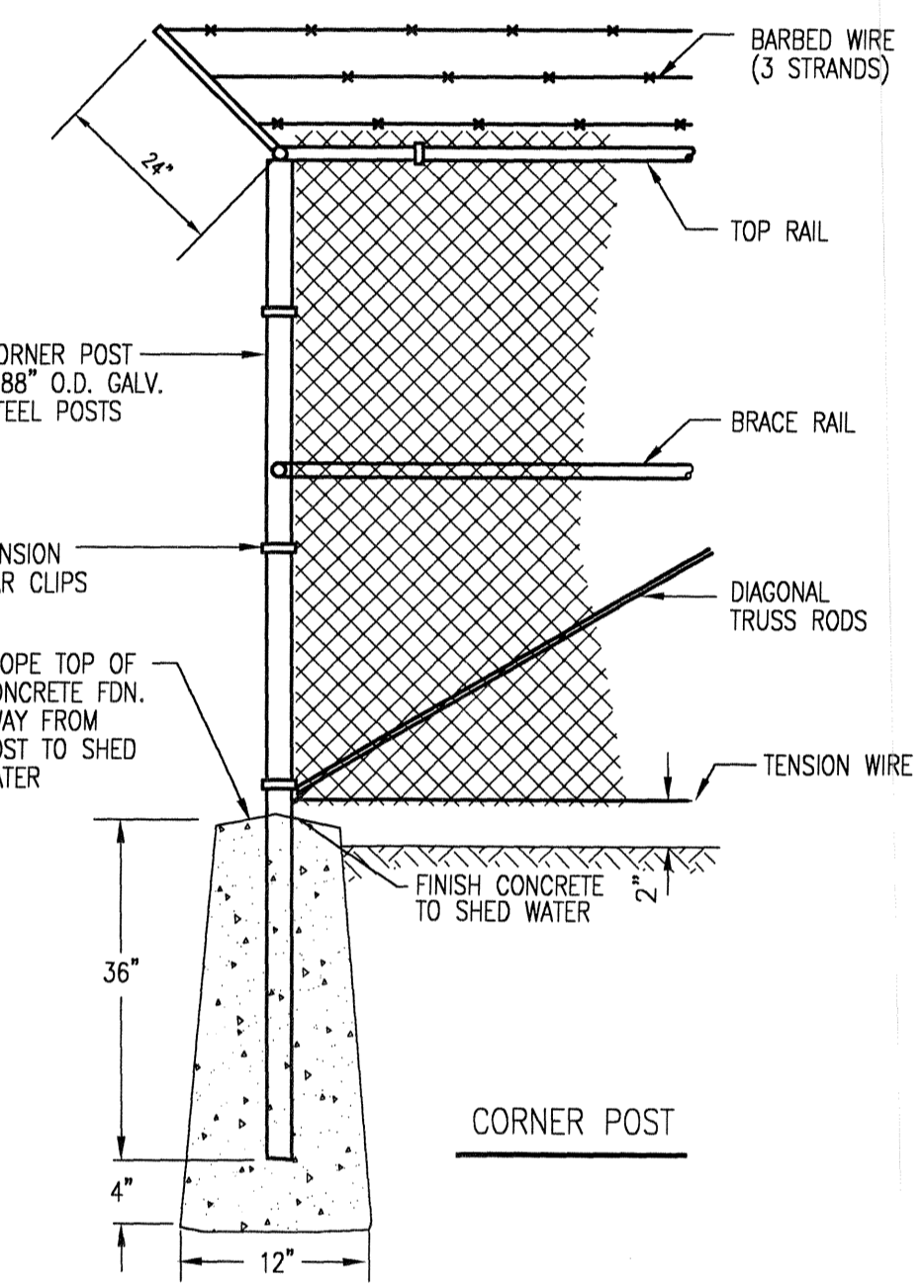
HORIZONTAL RAILING DETAIL
N.T.S.



STEEL MOUNTED HANDRAIL DETAILS
SCALE: NONE

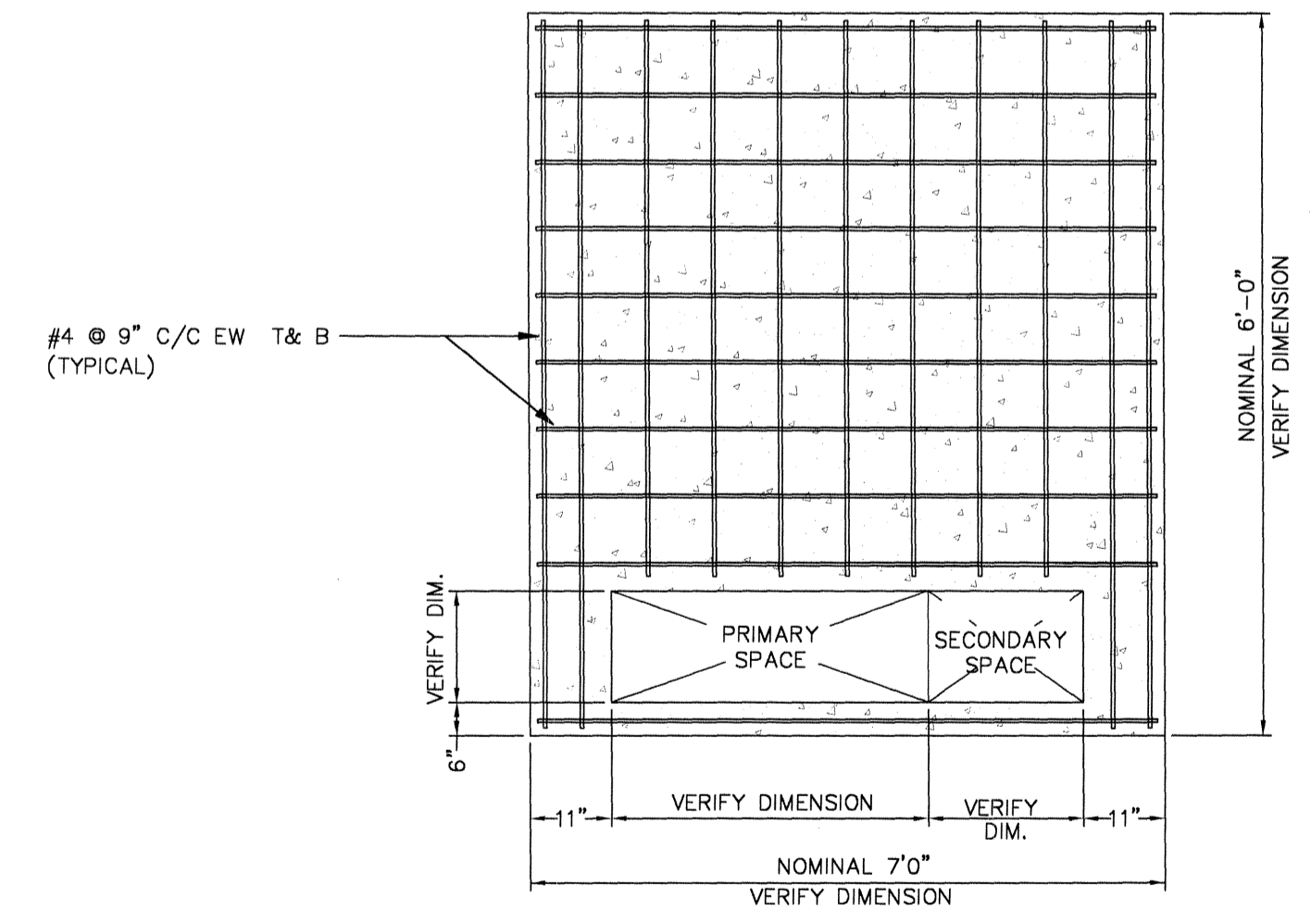


LINE POST

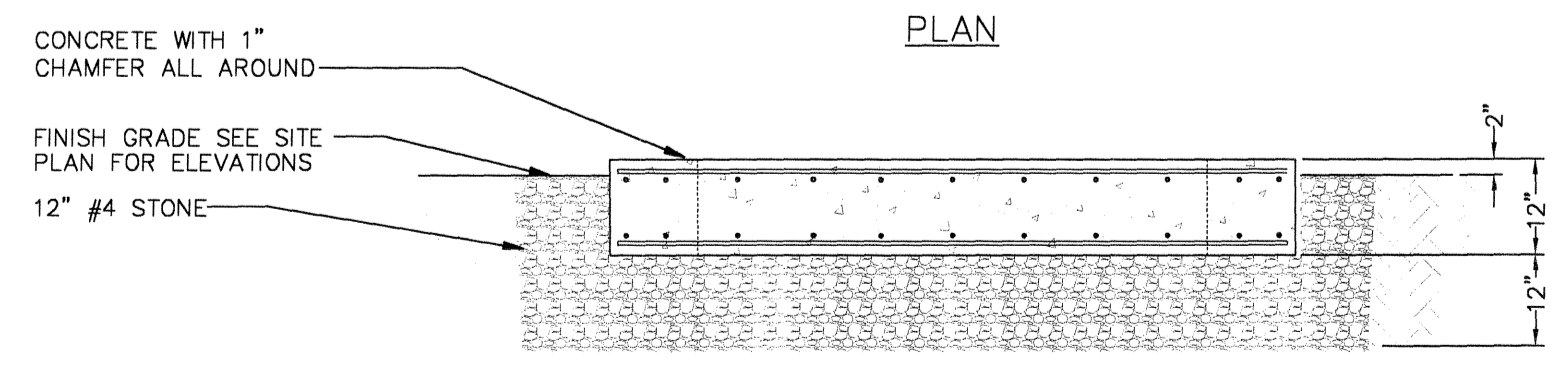


CORNER POST

FENCE DETAILS
Not to Scale



PLAN

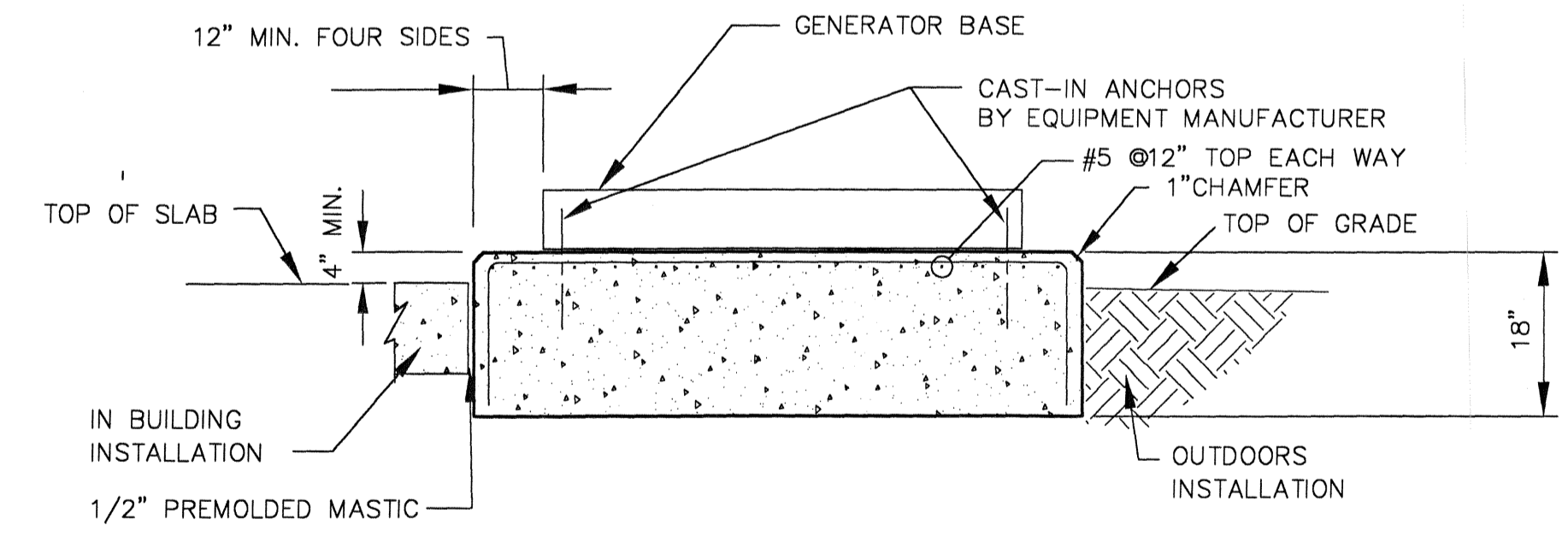


SECTION

TRANSFORMER PAD NOTES:

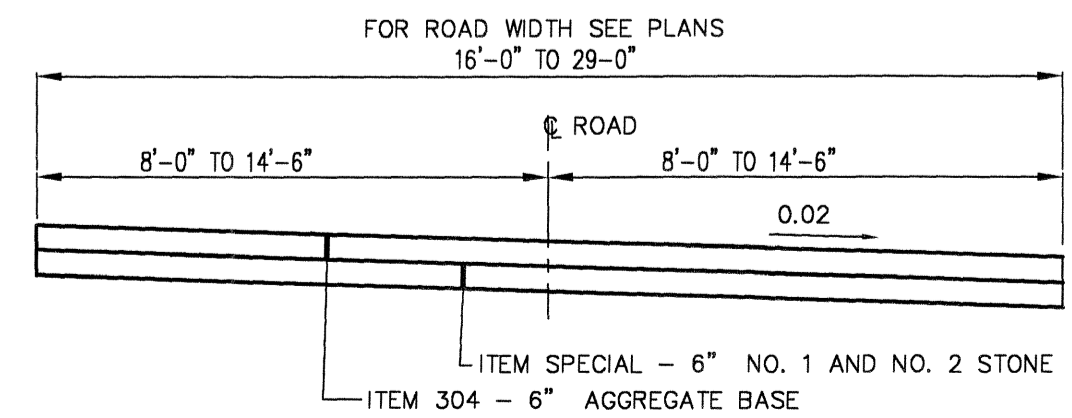
1. CONDUITS SHALL NOT PROJECT ABOVE PAD. COORDINATE ALL ELECTRICAL WORK WITH G.C.
2. CONCRETE TO BE 3500 PSI STRENGTH. SEE STRUCTURAL DETAIL SHEET BY G.C.
3. 48" CLEARANCES MUST BE MAINTAINED ON BOTH SIDES AND REAR OF PAD. 72" CLEARANCE MUST BE MAINTAINED IN FRONT OF PAD.

TRANSFORMER PAD DETAIL
NO SCALE



GENERATOR CONCRETE BASE DETAIL
NOT TO SCALE

NOTE: CONCRETE BASE BY GENERAL CONTRACTOR.
G.C. TO COORDINATE WITH ELECTRICAL CONTRACTOR
FOR ALL CONDUITS PENETRATIONS REQUIRED



STONE PAVEMENT DETAIL
NOT TO SCALE



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**CSO IMPROVEMENTS
CSO BASIN AND PUMP STATION
VILLAGE OF OAK HARBOR, OHIO**

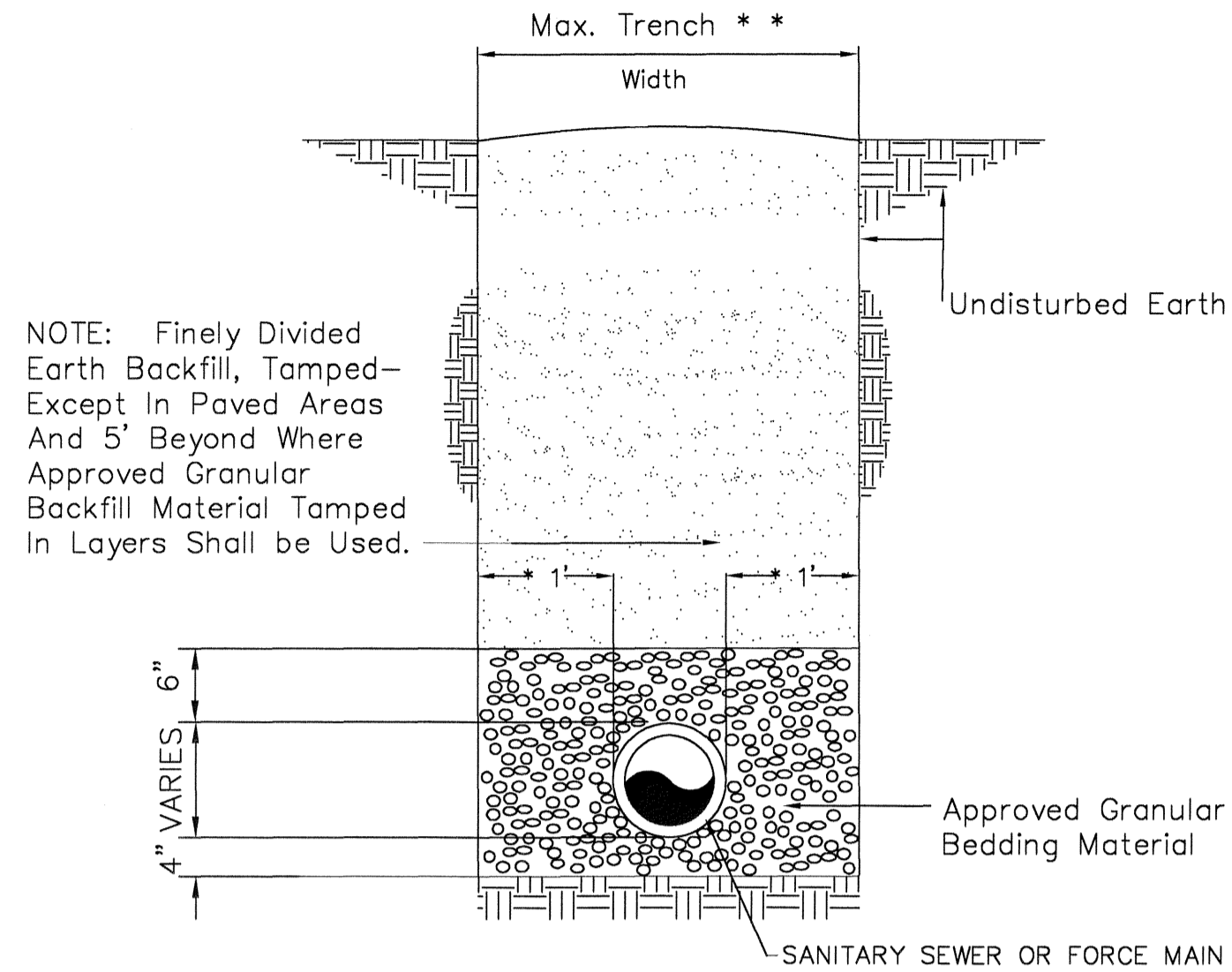
**STRUCTURAL
DETAILS**

DRAWN BY CHECKED BY
W.M.V. S.R.W.
REVISION

20
OF
32
JOB NUMBER
1590-120

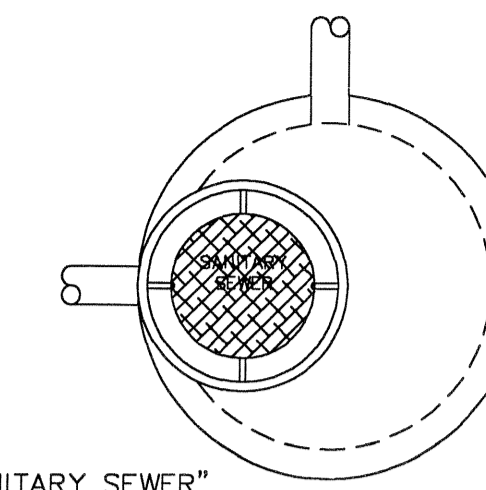
CONTRACT A

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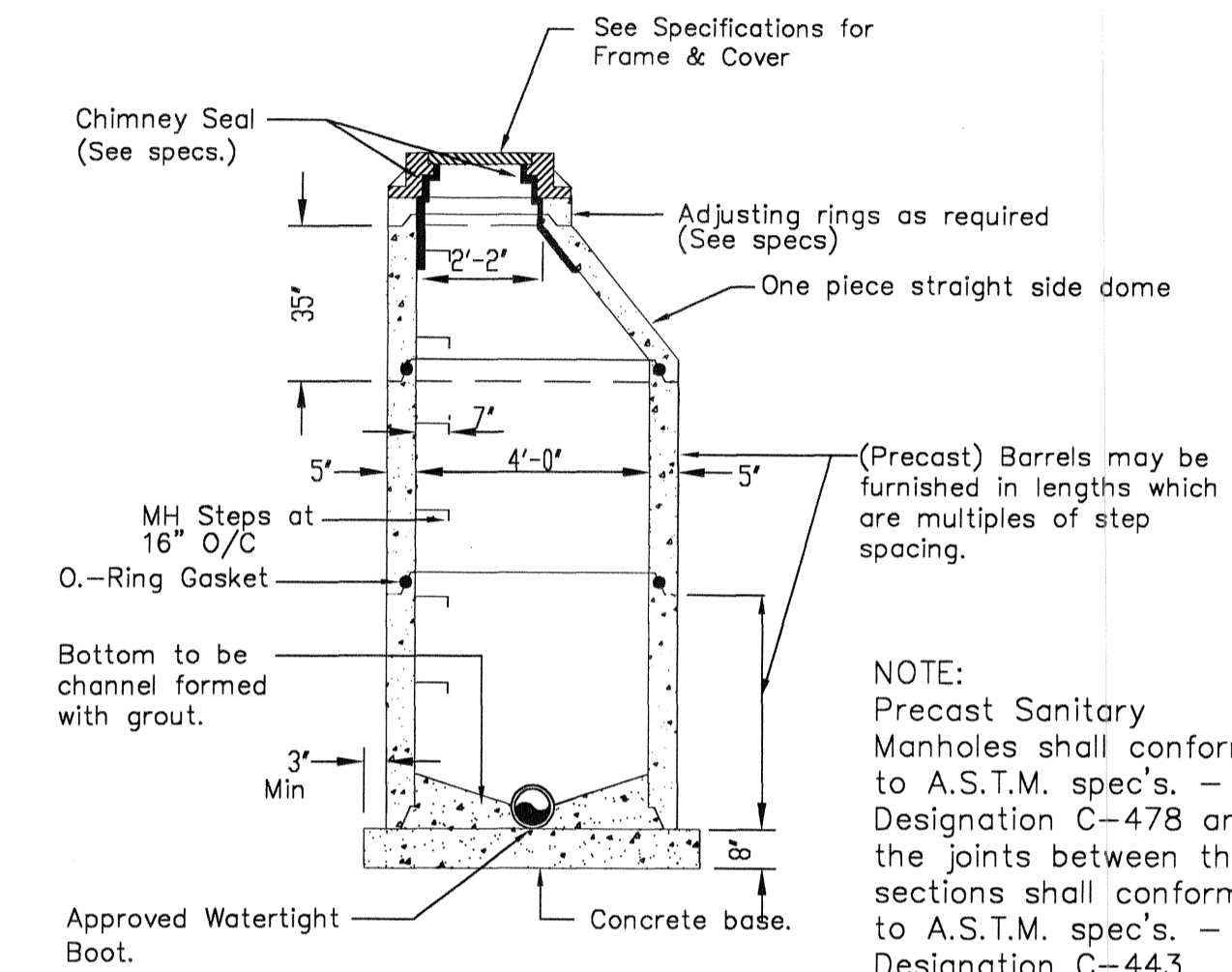
** Pay Limits Only, Maximum Trench Width Shall Be The Same As The Trench Width At The Top Of The Pipe.
 * For Sewer Up To 24" I.D. (Max. Is 18" For Sewers Over 24" I.D.)

GRAVITY SANITARY SEWER TRENCH DETAIL



NOTE: The words "SANITARY SEWER" shall be cast on the cover.

TOP PLAN

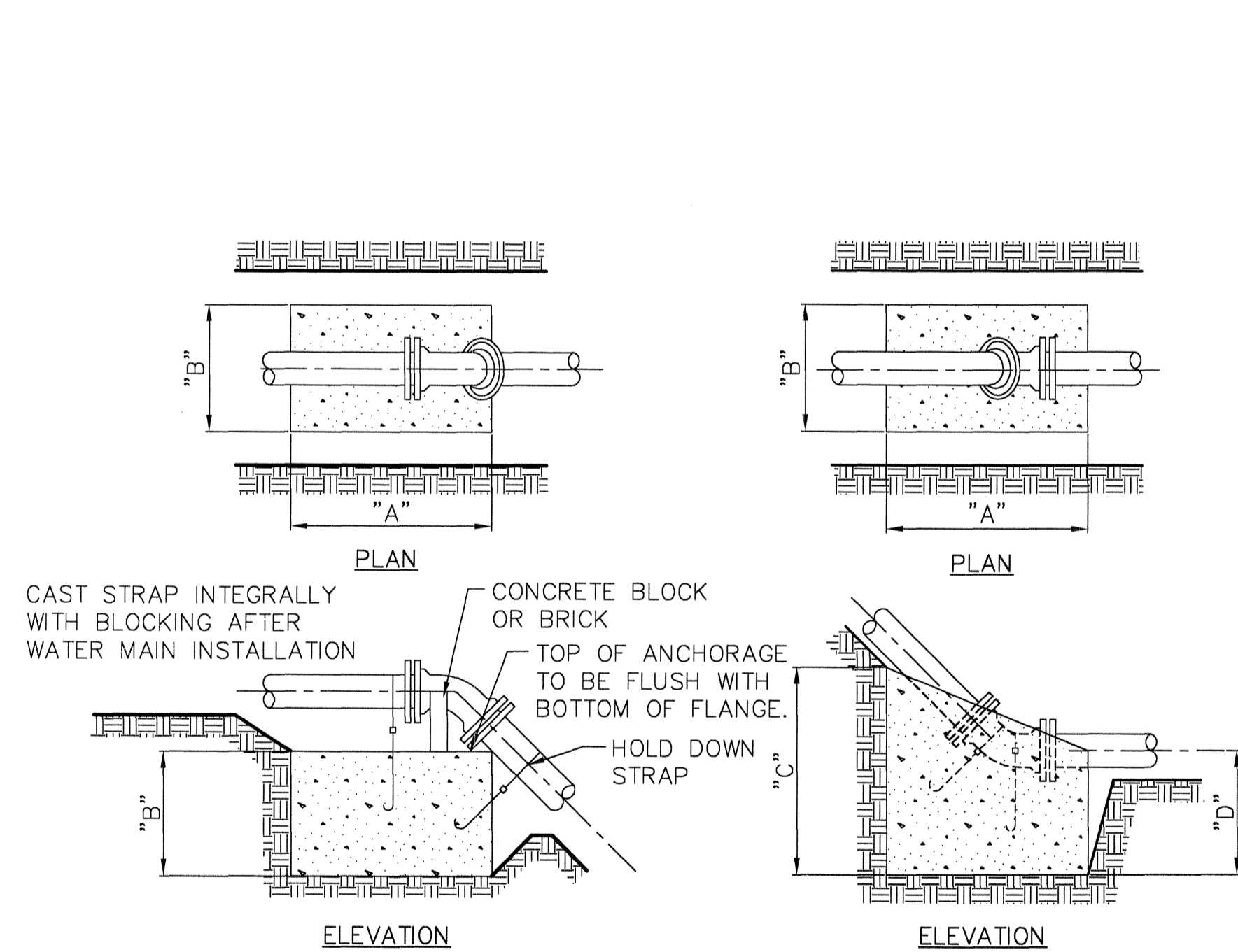


SANITARY MANHOLE DETAIL

N.T.S.

LEGEND

- COMPACTED EARTH BACKFILL
- UNDISTURBED EARTH
- ITEM 310.02 GRANULAR BACKFILL
- NO. 67 STONE

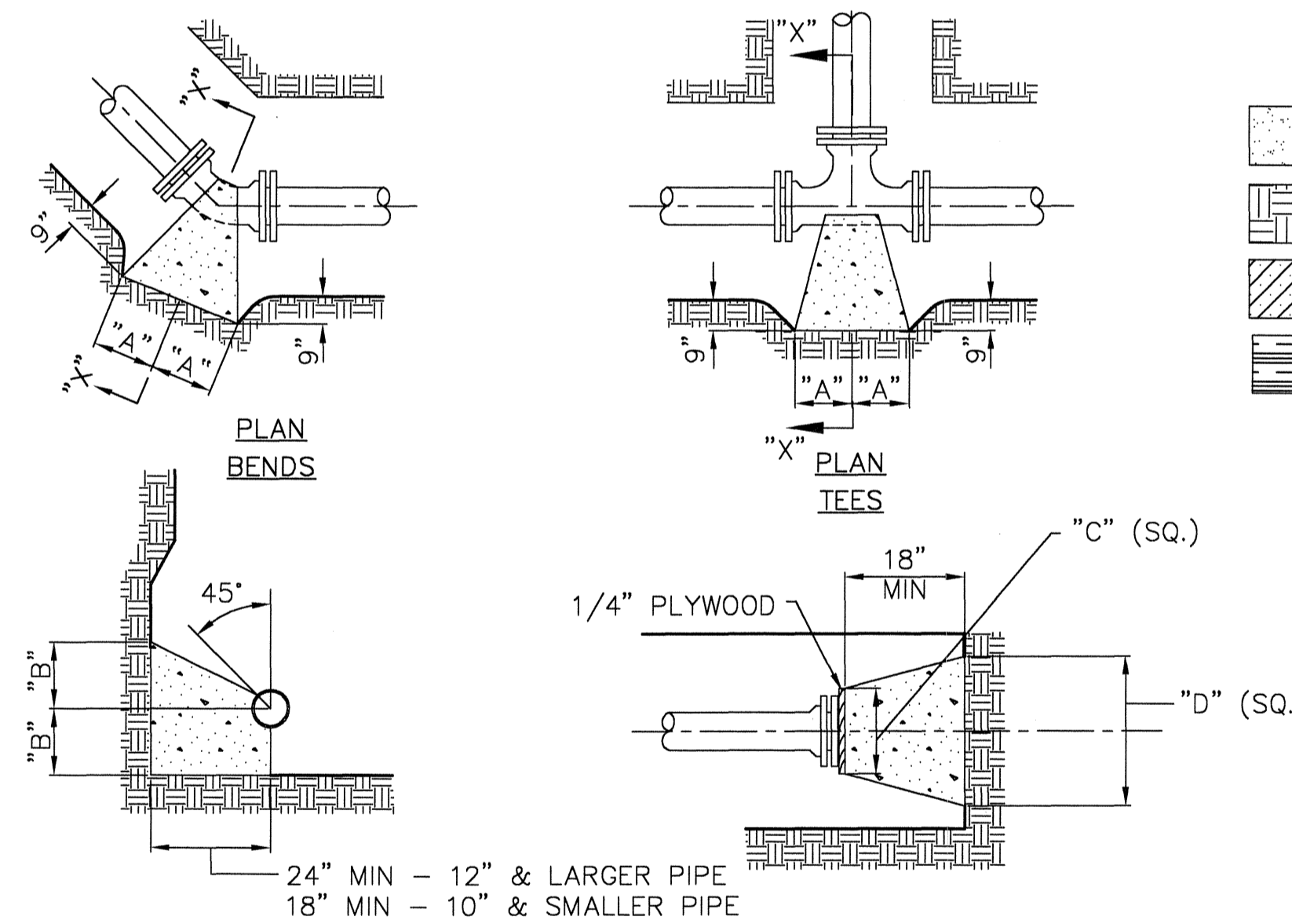


STANDARD BLOCKING

NOTE:
 6" TO 8" 1-1/4"x1-1/8" STRAP
 10" TO 12" 2-1/4"x1-1/4" STRAP
 14" TO 16" 2-3/8"x1-1/2" STRAP
 18" TO 20" 2-1/2"x1-3/4" STRAP

VERTICAL BENDS

SOIL TYPE	SIZE	TYPE A			TYPE B			
		A	B	C	A	B	C	D
2000 PSF SOIL	6"	36"	30"	24"	24"	24"	24"	16"
	8"	42"	36"	24"	30"	24"	30"	18"
	10"	48"	42"	30"	36"	30"	33"	18"
	12"	54"	48"	36"	36"	36"	36"	21"
	14"	54"	48"	60"	42"	42"	42"	24"
	16"	60"	54"	60"	48"	48"	44"	24"
	20"	72"	60"	72"	60"	54"	54"	30"
	24"							



STANDARD BLOCKING

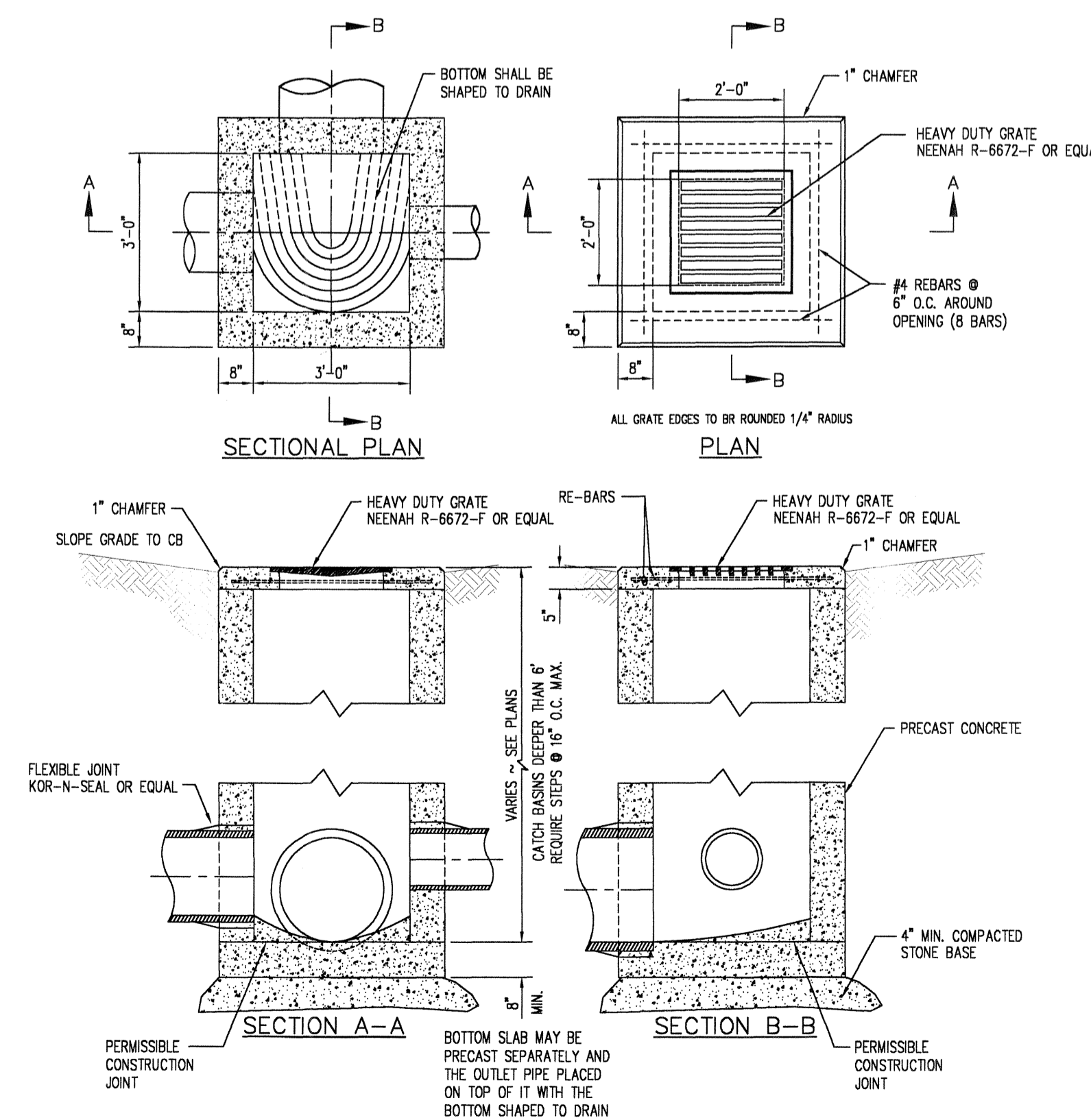
TYPE	SIZE	1/4 BENDS		1/8 BENDS		1/16 BENDS		TEES		PLUGS	
		A	B	A	B	A	B	A	B	C	D
2000 PSF SOIL	6"	16"	10"	9"	10"	6"	8"	10"	12"	10"	21"
	8"	22"	13"	12"	13"	8"	10"	13"	16"	12"	29"
	10"	26"	17"	14"	17"	10"	13"	16"	20"	14"	36"
	12"	29"	21"	16"	21"	11"	16"	18"	24"	16"	41"
	14"	35"	24"	19"	24"	12"	20"	22"	27"	18"	48"
	16"	38"	27"	21"	27"	12"	24"	24"	30"	20"	54"
	20"	46"	36"	25"	36"	15"	30"	30"	39"	24"	68"
	24"										

NOTE: BASED ON 100 P.S.I. STATIC PRESSURE PLUS A.W.W.A. WATER HAMMER.

ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED GROUND.

ALL PIPE SURFACES COMING IN CONTACT WITH CONCRETE SHALL BE WRAPPED WITH 6MIL POLYETHYLENE.

CONCRETE FOR BLOCKING SHALL BE CAST IN PLACE AND SHALL CONFORM TO O.D.O.T. ITEM 499, CLASS "C" AS PER THE O.D.O.T. CONSTRUCTION AND MATERIAL SPECIFICATIONS.



CATCH BASIN DETAIL
 NOT TO SCALE

CONTRACT A



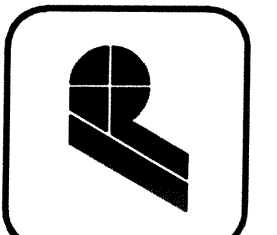
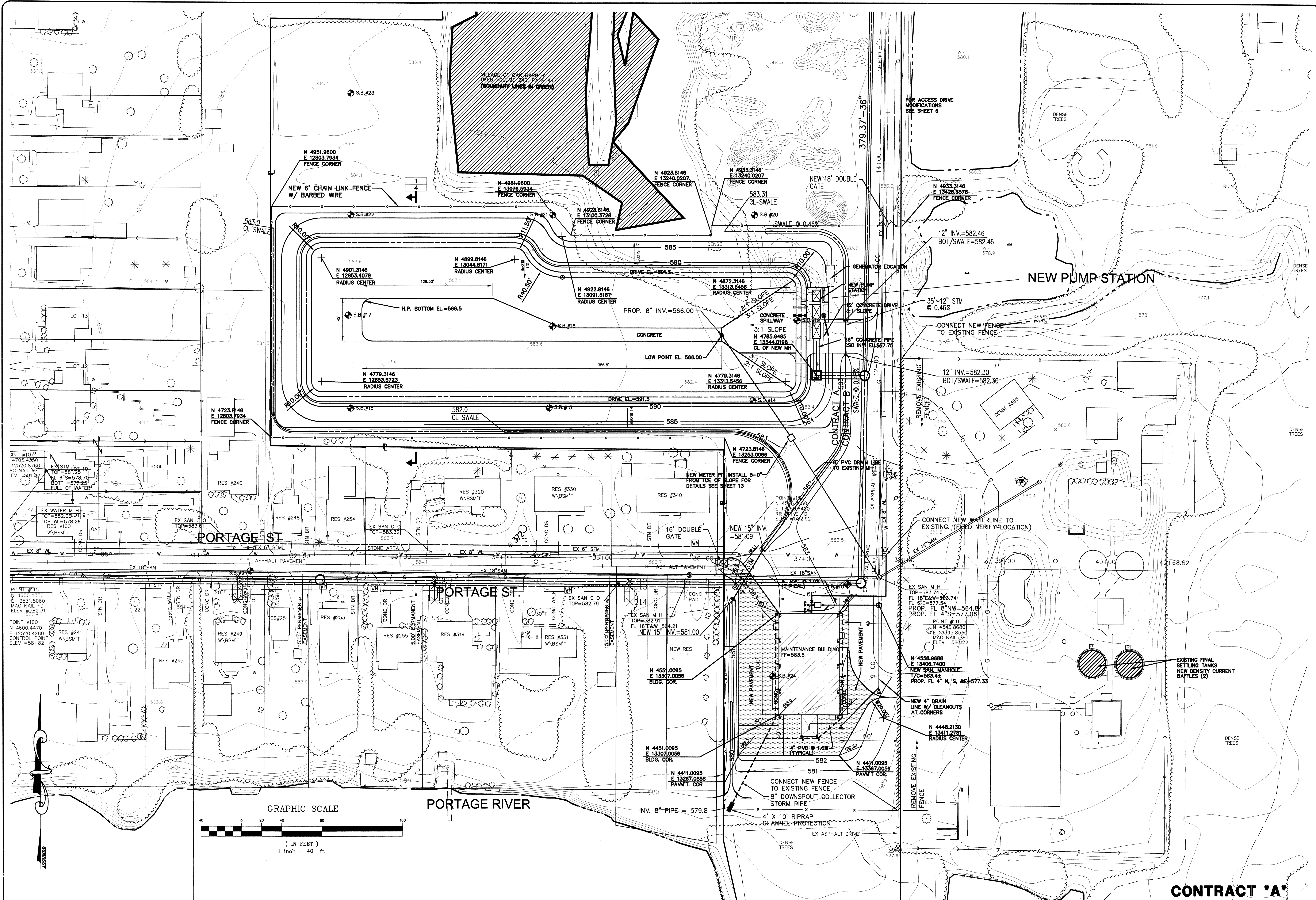
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 ARCHITECTS
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 (419) 352-7537

**CSO IMPROVEMENTS
 CSO BASIN AND PUMP STATION
 VILLAGE OF OAK HARBOR, OHIO**

**TRENCH
 AND PIPING
 DETAILS**

DRAWN BY CHECKED BY
 W.M.V. S.R.W.
 REVISION

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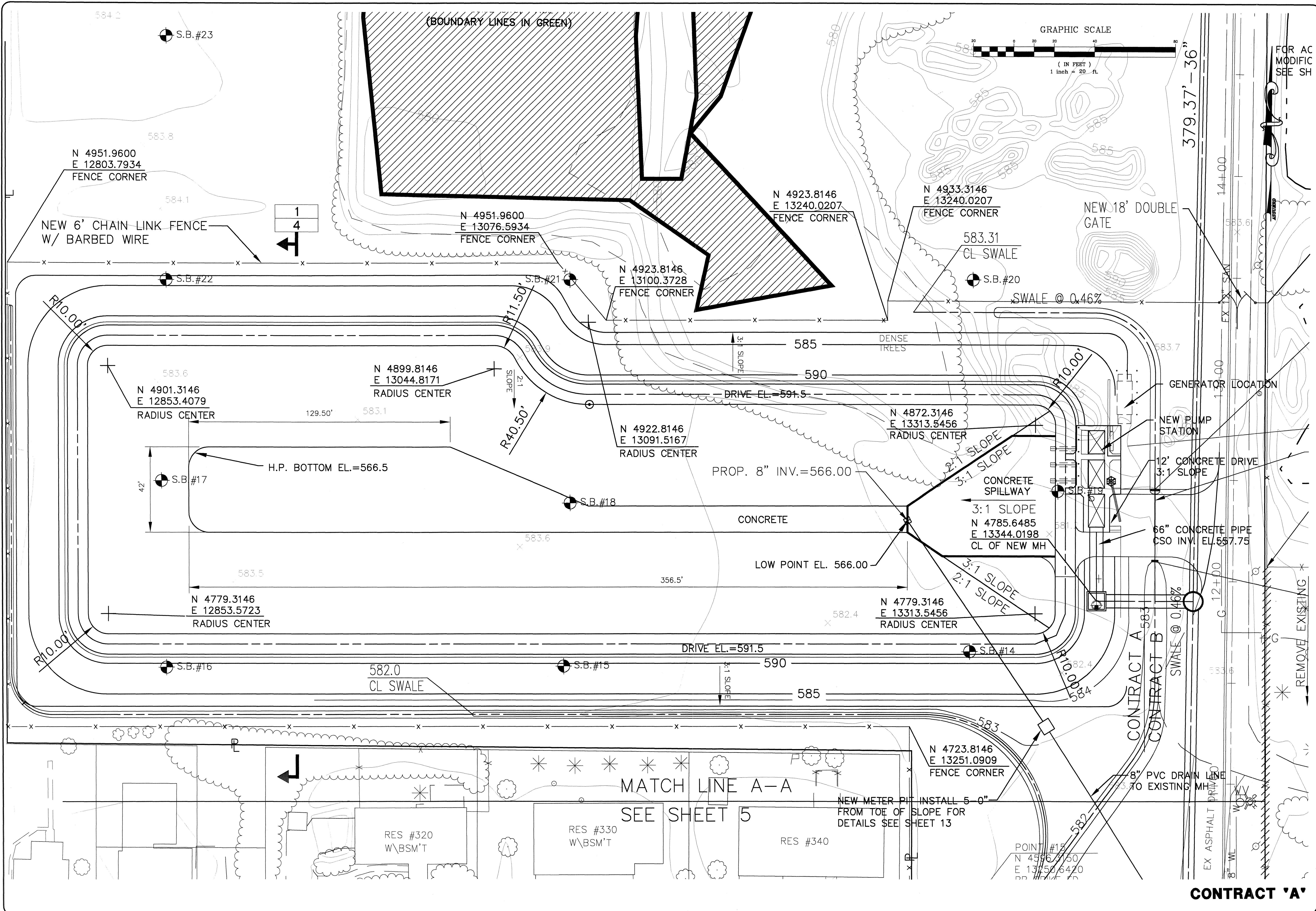
**CSO IMPROVEMENTS
 CSO BASIN AND PUMP STATION
 VILLAGE OF OAK HARBOR,**

**OVERALL
 SITE
 PLAN**

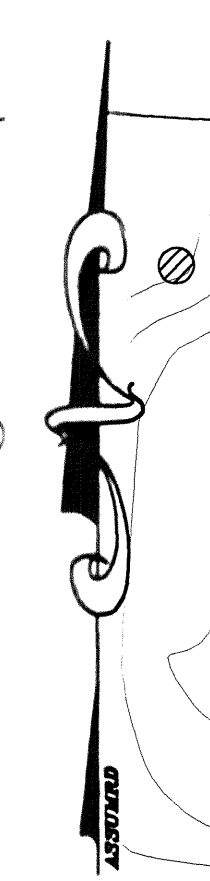
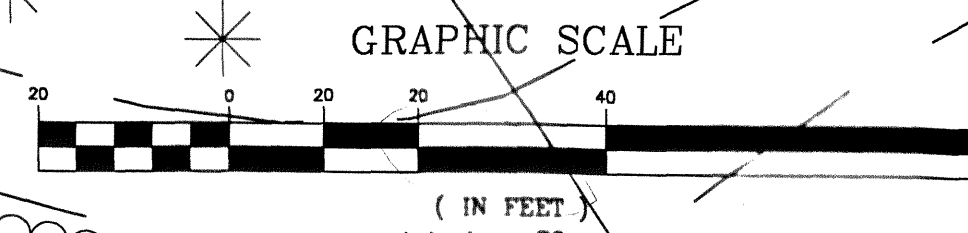
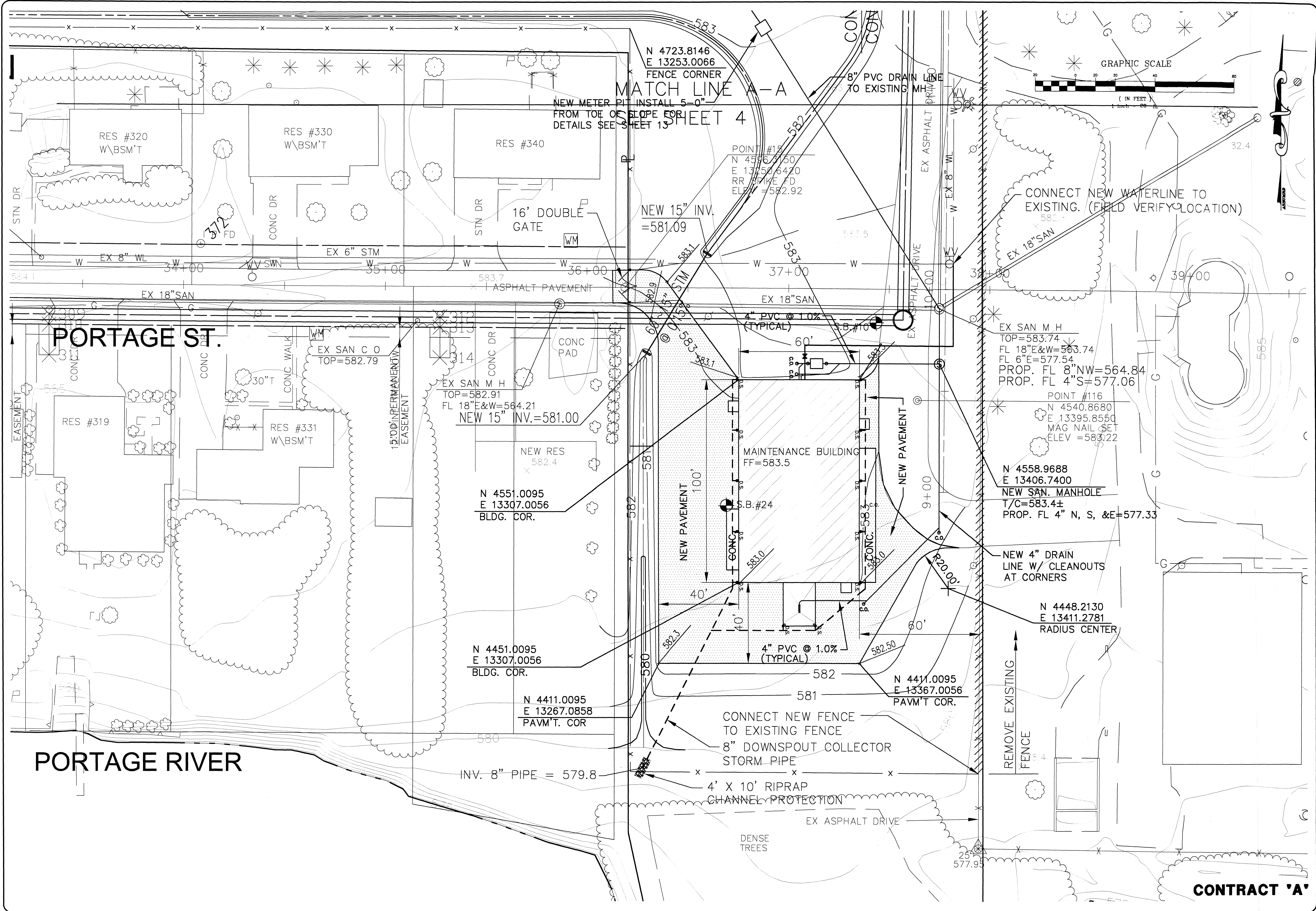
REVISION	DATE	BY	SO

3
 OF
 JOB NUMBER
 1590-120

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**CSO IMPROVEMENTS
CSO BASIN AND PUMP STATION
VILLAGE OF OAK HARBOR, OHIO**

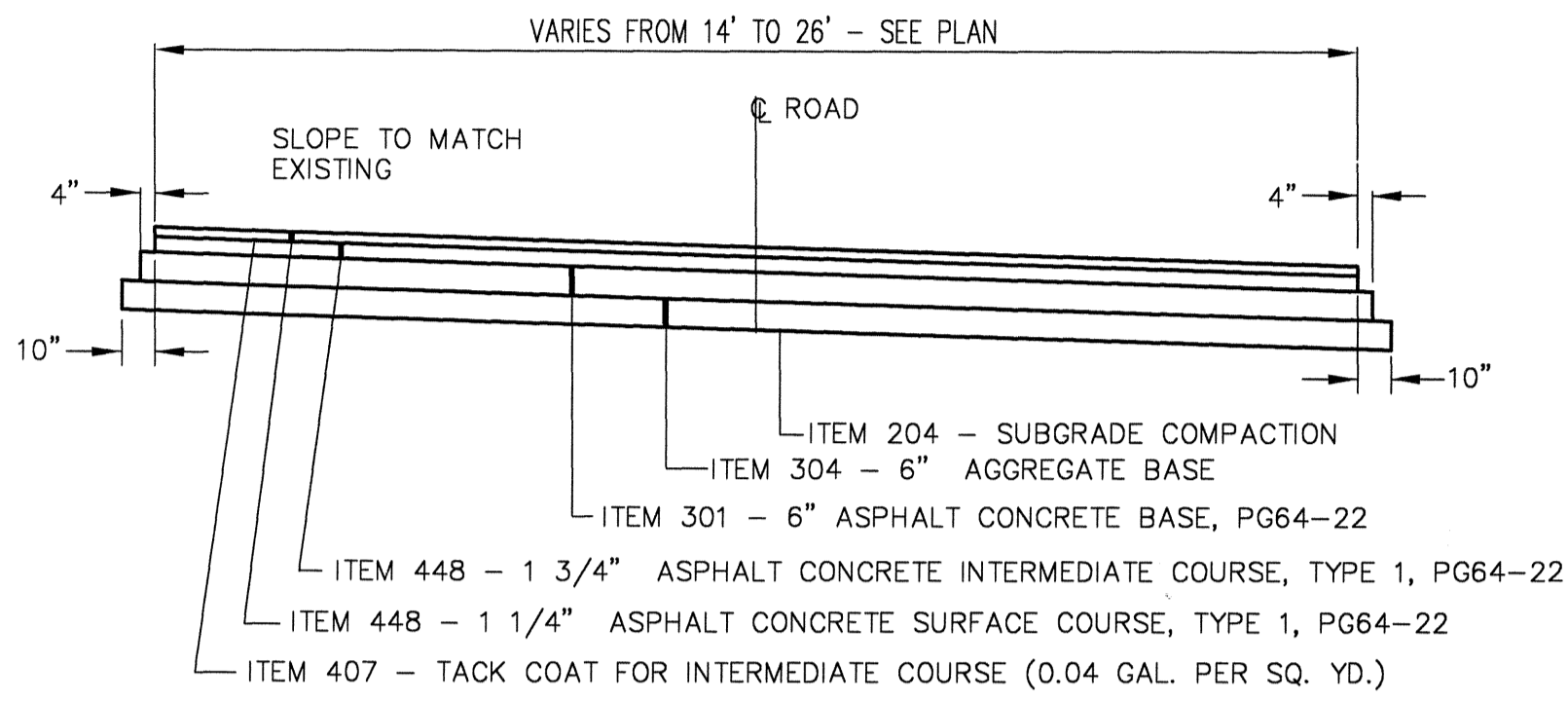
**MAINTENANCE
BUILDING
SITE PLAN**

DRAWN BY: RAO
CHECKED BY: TES
REVISION:

5
OF
JOB NUMBER
1590-120

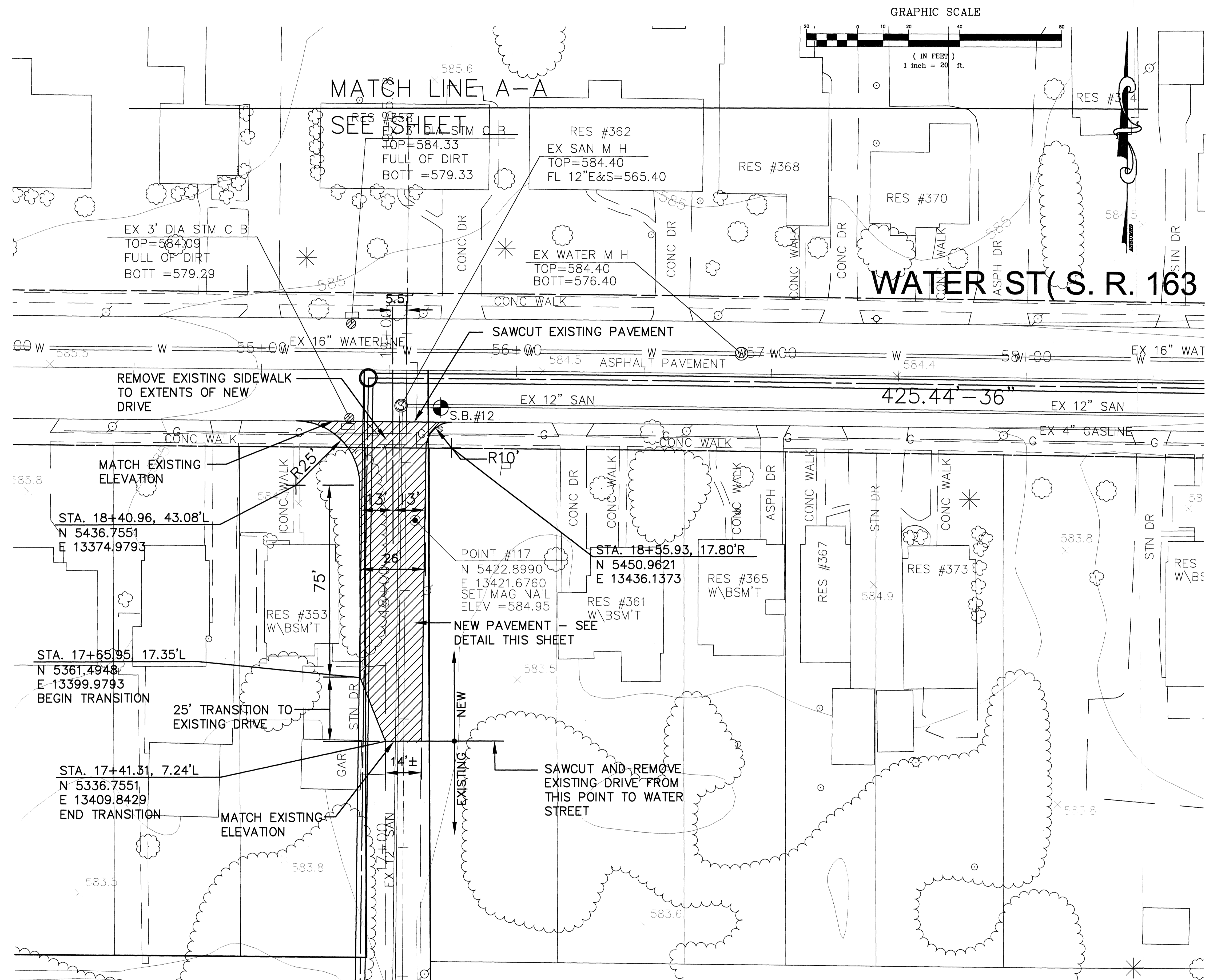
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**ASPHALT PAVEMENT DETAIL
NEW DRIVE**

NOT TO SCALE



WATER ST (S. R. 163)

425.44 - 36'

CONTRACT 'A'



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**CSO IMPROVEMENTS
CSO BASIN AND PUMP STATION
VILLAGE OF OAK HARBOR, OHIO**

**DRIVEWAY
IMPROVEMENT
PLAN**

DRAWN BY: RAO
CHECKED BY: TES

REVISION	

6
OF

JOB NUMBER
1590-120

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GENERAL NOTES

A. CONTRACT DRAWINGS: THIS CONTRACTOR SHALL CONSULT WITH THE ENGINEER REGARDING ALL QUESTIONS ON WHICH HE MAY IN DOUBT BEFORE PROCEEDING WITH INSTALLATION. ADDITIONAL DETAIL OR DRAWINGS NECESSARY ARE AT HIS OWN EXPENSE. VERIFY ALL DIMENSIONS AND CONDITIONS AS INDICATED ON THE DRAWINGS AND DETERMINE IF ANY CHANGES ARE REQUIRED. THE CONTRACTOR HAS THE RIGHT TO MODIFY ROUTES OF PIPE, ETC. AS MAY BE FOUND NECESSARY OR DESIRABLE TO AVOID INTERFERENCES, HOWEVER INSTALLATION REVISIONS SHALL BE VERIFIED WITH THE ENGINEER. IN GENERAL DRAWINGS ARE SCHEMATIC IN NATURE AND ARE INTENDED AS A GUIDE TO THE CONTRACTOR BUT DO NOT NECESSARILY SHOW ALL DETAILS, OFFSETS, ETC. DRAWINGS ARE TO BE THOROUGHLY INSPECTED. WORK SHALL CONFORM TO THE INFORMATION CONTAINED IN THE SPECIFICATIONS AND/OR AS INDICATED IN THE LATEST REVISION OF THE DRAWINGS REFERRED TO HERE-IN.

B. VERIFICATION: BEFORE RUNNING ANY PIPING WITHIN THE BUILDING, THIS CONTRACTOR SHALL ASSURE HIMSELF THAT THEY CAN BE INSTALLED AS CONTEMPLATED WITHOUT TRAPPING OR INTERFERING WITH COLUMNS, BEAMS, PIPING, FIXTURES, ETC. IF CHANGES ARE NOT APPROVED BEFORE INSTALLED THEY ARE AT THE CONTRACTOR'S EXPENSE. WHEN THE CONTRACTOR DETERMINES THE MAKE OF EQUIPMENT TO BE PROVIDED FOR THE JOB, IT SHALL BE HIS RESPONSIBILITY TO VERIFY AND COORDINATE UNIT DIMENSIONS WITH THE GENERAL CONTRACTOR AND ALL OTHER INTERESTED CONTRACTORS ON THE JOB. ALL OPENINGS AND SUPPORTING STEEL, CURBS, ELECTRICAL DATA, ETC., WILL FIT THE EQUIPMENT SUPPLIED. ADDITIONAL COST WILL BE THE SOLE RESPONSIBILITY OF THIS CONTRACTOR. EXISTING EQUIPMENT, SEWERS, PIPES, DUCTS, CONDUITS, ETC., IN PLACE AS SHOWN ON THE DRAWINGS, ARE TAKEN FROM AS-BUILT AND RECORD DRAWINGS AND ARE DEEMED RELIABLE ONLY INsofar AS GENERAL LAYOUT IS CONCERNED. CHECKING IN PLACE ITEMS WILL BE THE CONTRACTOR'S RESPONSIBILITY.

C. SITE VISIT: CONTRACTORS SHALL VISIT, AND THOROUGHLY EXAMINE THE PROJECT SITE AND ITS ASSOCIATED CONDITIONS. ALL CONTRACTORS SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO SUBMITTING A BID PROPOSAL. NO ADDITIONAL COMPENSATION WILL BE CONSIDERED FOR ANY DEVIATIONS OR DISCREPANCIES TO THESE PLANS AFTER A CONTRACTOR HAS BEEN SELECTED.

D. NEW WORK: UNLESS OTHERWISE NOTED, ALL WORK INDICATED THROUGHOUT THESE DRAWINGS SHALL BE CONSIDERED TO BE NEW WORK AND SHALL BE INCLUDED IN THIS CONTRACT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS WORK WITH OTHER TRADES TO AVOID POSSIBLE CONFLICTS. CONTRACTOR SHALL NOT INSTALL ANY WORK KNOWINGLY IN ERROR. ALL PLUMBING AND PIPING WORK SHALL BE IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND REQUIREMENTS.

E. SUBMITTALS: SUBMIT FOR REVIEW DETAILED DIMENSIONED DRAWINGS AND/OR EQUIPMENT CUT SHEETS SHOWING CONSTRUCTION SIZE, ARRANGEMENT, OPERATING CLEARANCES, PERFORMANCE CHARACTERISTICS AND CAPACITY OF EQUIPMENT. SHOP DRAWINGS SHALL SHOW THE RATINGS OF ITEMS AND SYSTEMS AND HOW THEY WILL BE INSTALLED ON THE PROJECT. IT IS THE INTENT OF THESE CONTRACT DRAWINGS TO HAVE THE CONTRACTOR PREPARE "AS-BUILT" RECORD DRAWINGS IN ACCORDANCE WITH THESE CONTRACT DOCUMENTS.

F. CUTTING, PATCHING & FINISHING: PROVIDE CUTTING AND PATCHING OF ALL MATERIALS NECESSARY FOR THE INSTALLATION AND PROTECT THE STRUCTURE, FURNISHINGS, FINISHES AND MATERIALS ADJACENT TO THE AREA OF CUTTING AND PATCHING. PATCH EXISTING FINISHED SURFACES AND EQUIPMENT USING NEW MATERIALS AND METHODS, TO MATCH ADJACENT WORK. PATCHING OF FIRE RATED PARTITIONS, CEILINGS AND OTHER ASSEMBLIES, SHALL MATCH THE RATING OF THE RATED BARRIER WITH MATERIALS LISTED AND IDENTIFIED FOR SUCH USE, AND SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF THE SPECIFICATIONS. OPENINGS PENETRATING FIRE-RATED FLOOR SLABS, WALLS, PARTITIONS, CEILINGS, OR SMOKE PARTITIONS, SHALL BE SEALED AT BOTH SIDES OF THE PENETRATION AND SHALL NOT EXTEND THROUGH SLEEVES. USE ACCEPTABLE FIRE STOP.

G. CLOSE-OUT: CONTRACTOR SHALL RUN TESTING, CHECK-OUT AND SYSTEM OPERATIONS TO OWNER TO ASSURE PROPER PERFORMANCE OF ITEMS PROVIDED UNDER THE CONTRACT. REMOVE ALL DEBRIS AND CLEAN ALL FIXTURES AND EQUIPMENT, ETC., INSIDE AND OUTSIDE. PROVIDE A BINDER WHICH INCLUDES: COPIES OF EACH SHOP DRAWING, PREVENTATIVE MAINTENANCE PROCEDURES, OPERATION AND INSTRUCTION MANUALS, LITERATURE SUPPLIED WITH PLUMBING EQUIPMENT, AND PROVIDE AT LEAST 2 HOURS OF INSTRUCTION TO THE OWNER, TO FAMILIARIZE THEM WITH THE LOCATION OF EQUIPMENT, AND TRAIN THEM ON EQUIPMENT FUNCTIONS, MAINTENANCE PROCEDURES.

H. GUARANTEE: THE CONTRACTOR GUARANTEES THAT ALL HIS WORK WILL BE FREE FROM DEFECTS IN WORKMANSHIP AND/OR MATERIALS AND THAT ALL SYSTEMS WILL DEVELOP CAPACITIES AND CHARACTERISTICS SPECIFIED. SHOULD ANY DEFECTS IN WORKMANSHIP, AND/OR MATERIALS REQUIRE REDESIGN OF ANY PART OF THE ELECTRICAL, MECHANICAL, PLUMBING, OR ARCHITECTURAL LAYOUT, ALL SUCH REDESIGN AND ALL NEW DRAWINGS AND DETAILING REQUIRED THEREOF SHALL, WITH THE APPROVAL OF THE ENGINEER, BE PREPARED BY THE CONTRACTOR AT HIS OWN EXPENSE. IF THIS APPROVED DEVIATION REQUIRES A DIFFERENT ARRANGEMENT OF DUCTWORK, PIPING, WIRING, CONDUIT AND/OR EQUIPMENT FROM THAT SPECIFIED ON THE DRAWINGS, WITH THE APPROVAL OF THE ENGINEER, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SUCH MATERIALS AND/OR EQUIPMENT REQUIRED BY THE SYSTEM AT NO ADDITIONAL COST TO THE OWNER.

MISCELLANEOUS NOTES:

- CONTRACTOR TO FURNISH AND INSTALL ALL LABOR, MATERIALS, FIXTURES, AND EQUIPMENT AS SHOWN ON DRAWINGS OR SPECIFIED HEREIN, AND ANY AND ALL DETAILS OR ITEMS ESSENTIAL TO COMPLETE THE INSTALLATION WHETHER SAME ARE SPECIFICALLY MENTIONED OR NOT. ANY MATERIAL OR LABOR WHICH IS NEITHER SHOWN ON DRAWINGS NOR CALLED FOR HEREIN, BUT ARE OBVIOUSLY NECESSARY TO COMPLETE THE WORK AND WHICH IS USUALLY INCLUDED IN WORK OF SIMILAR CHARACTER, SHALL BE FURNISHED AND INSTALLED WITHOUT ADDITIONAL COST.
- CONTRACTOR SHALL ARRANGE AND PAY FOR ALL OTHER FEES FOR PERMITS, INSPECTIONS, CERTIFICATES, AND MISCELLANEOUS COSTS INCURRED DUE TO STATE AND/OR LOCAL GOVERNING AUTHORITIES REQUIREMENTS FOR THE PLUMBING PORTION OF THE WORK, INCLUDING UTILITY COMPANY CHARGES.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND/OR LOCAL CODES AND REGULATIONS HAVING JURISDICTION OVER THE PROJECT.
- ALL WORK SHALL BE DONE BY SKILLED CRAFTSMAN AND SHALL BE OF HIGHEST QUALITY IN ACCORDANCE WITH THE BEST PRACTICES OF THIS TRADE.
- DRAWINGS ARE SCHEMATIC AND FOR REFERENCE ONLY. COORDINATE EXISTING ROUTES WITH OTHER TRADES.
- CONTRACTOR SHALL COORDINATE AND VERIFY WITH THE MECHANICAL CONTRACTOR THE INSTALLATION AND/OR HOOKUP OF OWNER SUPPLIED EQUIPMENT AND HVAC EQUIPMENT.
- PROPERLY TEST ALL UNDERGROUND LINES PRIOR TO BACKFILL ACCORDING TO APPLICABLE CODES.
- CONFIRM WITH GENERAL CONTRACTOR THE PROPER LOCATION OF SOLID BLOCKING IN STUD PARTITIONS FOR ANCHORAGE OF PLUMBING FIXTURES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING BUILDING DRAIN AND ITS HOOKUP TO BUILDING SEWER. COORDINATE LOCATION AND INVERT ELEVATIONS WITH GENERAL CONTRACTOR.
- FLOORS SHALL SLOPE DOWN TO FLOOR DRAINS. COORDINATE TOP OF DRAINS WITH GENERAL CONTRACTOR.
- COORDINATE WITH MECHANICAL CONTRACTOR TO MAINTAIN PROPER DISTANCE BETWEEN AIR INTAKES, EXHAUSTS, AND VENTS PER GOVERNING AUTHORITIES REQUIREMENTS.
- WATER SUPPLY LINE SIZED WITH A DESIGN FACTOR OF 55 PSI AVAILABLE AT MAIN SERVICE ENTRANCE.
- ALL WATER LINES TO BE ROUTED OVERHEAD AND WITHIN INTERIOR WALLS WHENEVER POSSIBLE.
- HYDRANT TO BE INSTALLED ON EXTERIOR TO BE FROST PROOF.
- PROVIDE SHUT OFF VALVES AT ALL OVERHEAD WATER LINES.
- PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL ALL INTERIOR & EXTERIOR GAS PIPING, INCLUDING REGULATORS ON EXISTING EQUIPMENT. PLUMBING CONTRACTOR SHALL HOOK UP ALL EQUIPMENT.
- ALL SLEEVES AND THEIR LOCATIONS FOR PLUMBING WORK PASSING THROUGH WALLS TO BE PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR.
- PROVIDE TRAP PRIMERS FOR ALL DRAINS WHERE MOISTURE REQUIRED FOR PROPER SEAL IS DEFICIENT.
- PLUMBING CONTRACTOR SHALL VERIFY WATER PRESSURE CONDITIONS AT THE SITE. CONTRACTOR SHALL PROVIDE PRESSURE REDUCER VALVE IF PRESSURE EXCEEDS 80 PSI.
- CLEANOUT SEPARATION ON HORIZONTAL RUNS SHALL NOT EXCEED 100 FT.
- INSTALL DIELECTRIC FITTING BETWEEN FERROUS AND NON-FERROUS MATERIALS.
- CONTRACTOR TO VERIFY LOCATION OF EXISTING WATER, GAS & SEWER MAINS AND POINTS OF CONNECTION.
- ALL PIPING EXPOSED TO WEATHER SHALL BE PAINTED AND COATED WITH AN APPROVED PROTECTIVE COATING FOR CORROSION CONTROL.
- ALL PIPING IS TO BE HUNG AND ANCHORED PER CODE.
- CONTRACTOR IS TO VERIFY THAT FALL OF THE SEWER LINE WILL MEET INVERT AT POINT OF CONNECTION BEFORE INSTALLING PIPING.
- ALL INDIRECT WASTE LINES TO BE AIR GAPPED OVER FLOOR SINKS AND FLOOR DRAINS.
- ALL HOSE BIBS DOWNSTREAM OF REDUCED PRESSURE BACKFLOW PREVENTOR SHALL BE LABELED "NON-POTABLE WATER".
- BUILDING SHALL HAVE AN APPROVED BACKFLOW PREVENTION DEVICE OF REDUCED PRESSURE TYPE (E.P.A. AND COUNTY APPROVED).
- CONTRACTOR RESPONSIBLE FOR REPAIR AND/OR FIRESTOPPING OF ALL PENETRATIONS RESULTING FROM HIS WORK.
- CONTRACTOR RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL DEBRIS RESULTING FROM HIS WORK.
- INSTALL ISOLATION VALVES AT ALL MAJOR WATER LINE BRANCHES.
- CAREFULLY COORDINATE ALL FLOOR DRAINS, CLEANOUTS, SANITARY PIPING, ETC. WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

LOUVER SCHEDULE

EQUIP. NO.	AREA SERVED	SERVICE/FUNCTION	OVERALL SIZE		# OF PANELS	PANEL SIZE		DEPTH	MIN. FREE AREA (SQ.FT.)	CFM	MAX. VELOCITY (FPM)	MAX. PRESS. DROP (IN. W.C.)	BLADE			MATERIAL	SCREEN	MANUFACTURER & MODEL	NOTES:
			WIDTH	HEIGHT		WIDTH	HEIGHT						STYLE	ANGLE	SPACING				
L-1	SHOP	INTAKE	48"	72"	1	48"	72"	4"	10.1	6700	800	0.10	ADJUSTABLE	45°	4"	ALUMINUM	INSECT	GREENHECK # EAD-401	1, 2, 3, 4

NOTES / OPTIONS / ACCESSORIES:
 1. MOUNT BOTTOM @ 3'-0" ABOVE FINISH FLOOR. 3. COUNTERFLASH AND SEAL TIGHT
 2. INTERLOCK DAMPER WITH EXHAUST FAN, EF-1. 4. FURNISH WITH BLADE & JAMB SEALS
 HV-1, AND CO SENSOR.

HEATING & VENTILATING UNIT SCHEDULE

EQUIPMENT NO.	LOCATION	CFM	ELECTRICAL DATA		FUEL	MBH	TEMP. RISE	WEIGHT	MANUFACTURER & MODEL	OPTIONS-ACCESSORIES
			HP	V / PH. / HZ.						
HV-1	WALL	3500	2	240/3/60	NAT. GAS. (2 PSI)	757	160°	540	CAMBRIDGE ENGINEERING: #S-800	1, 2, 3, 4, 5, 6, 7, 8, 9

NOTES-OPTIONS-ACCESSORIES:
 1. INCLUDE "EXTERIOR WALL MOUNTING PACKAGE"
 2. SNOW SKIRT
 3. EDMS/CTP CONTROLS
 4. FM GAS TRAIN WITH ENCLOSURE
 5. EXHAUST INTERLOCK
 6. HPR
 7. FUSED DISCONNECT
 8. TSS CONTROLS
 9. DIRECTIONAL ELBOWS

PACKAGE TERMINAL UNITS

EQUIPMENT NO.	LOCATION	ELECTRICAL DATA		MBH COOLING CAPACITY	MBH HEATING CAPACITY	EER	AIRFLOW (CFM)	OUTSIDE AIR (CFM)	MANUFACTURER & MODEL	OPTIONS-ACCESSORIES
		MCA	V / PH. / HZ.							
PT-1	OFFICE	13.3	208-240/3/60	8500	8500	10.1	270	30	McQUAY COMFORT PACKAGE #PMRS-009	1, 2, 3
PT-2	BREAKROOM	13.3	208-240/3/60	8500	8500	10.1	270	30	McQUAY COMFORT PACKAGE #PMRS-009	1, 2, 3

NOTES-OPTIONS-ACCESSORIES:
 1. WALL SLEEVE
 2. BUILT-IN THERMOSTAT
 3. PROVIDE WITH FLOOR BASE

FAN SCHEDULE

EQUIPMENT NO.	SERVICE	LOCATION	CFM	STATIC PRESS. (IN. W.G.)	MOTOR		MANUFACTURER & MODEL	OPTIONS-ACCESSORIES
					HP	VOLT-PH.-CY.		
EF-1	EXHAUST	SHOP	6700	0.25	1 1/2	240/1/60	GREENHECK: #SE1-20-432-A15	1, 2, 3, 6
EF-2	EXHAUST	TOILET ROOM	75	0.375	-	120/1/60	GREENHECK: #SP-8110	4, 5, 6

NOTES / OPTIONS / ACCESSORIES:
 1. PROVIDE MOTORIZED EXTERIOR WALL SHUTTER AND PANEL FAN REAR GUARD
 2. FAN SHALL BE WALL MOUNTED
 3. FAN SHALL BE INTERLOCKED WITH L-1, CO SENSOR, AND LINE VOLTAGE THERMOSTAT
 4. INSTALL 4" DIA. DUCT BETWEEN EF-2 AND EXHAUST WALL CAP.
 5. INTERLOCK WITH RESTROOM LIGHT
 6. EQUALS - COOK, GREENHECK, HARTZELL

PLUMBING PIPE & INSULATION SCHEDULE

DESCRIPTION	LINE SIZE	PIPE / INSULATION TYPE	FITTINGS	JOINT	VALVES
DOMESTIC WATER PIPING ABOVE GRADE	1/2" - 2"	TYPE "L" HARD COPPER TUBING	WROT COPPER	LEAD FREE SOLDER	BRONZE BALL SWEAT ENDS 600 LB. W.O.G.
DOMESTIC WATER PIPING BELOW GRADE	ALL	TYPE "K" SOFT TUBING	N/A	BRAZED SILFOS	N/A
SANITARY WASTE & VENT ABOVE GRADE	ALL	SCHEDULE 40 PVC DWV	SCHEDULE 40 DRAINAGE PATTERN	SOLVENT	N/A
SANITARY WASTE & VENT BELOW GRADE	ALL	SCHEDULE 40 PVC DWV	SCHEDULE 40 DRAINAGE PATTERN	SOLVENT	N/A
NATURAL GAS	1/2" - 2"	SCHEDULE 40 ASTM A-53 ERW GRADE "B" THREAD & CPL'D	150 # BLACK MALLEABLE IRON	THREADED	AGA RATED LUBRICATED GAS COCK
NATURAL GAS (UNDERGROUND SERVICE)	1" AND LARGER	AGA APPROVED FUSED POLYPROPYLENE	N/A	FUSED	AGA APPROVED
COMPRESSED AIR	1/2" - 2"	SCHEDULE 40 ASTM A-53 ERW GRADE "B" THREAD & CPL'D	150 # BLACK MALLEABLE IRON	THREADED	BRONZE BALL THREADED ENDS 600 LB. W.O.G.
DOMESTIC WATER INSULATION		1" THICK FIBERGLASS W/ VAPOR BARRIER	FIBERGLASS W/ PVC JACKET	SEAL	FIBERGLASS W/ PVC JACKET

ELECTRIC BASE BOARD RADIATION SCHEDULE

EQUIPMENT NO.	LOCATION	BTU/HR	ELECTRICAL DATA			MANUFACTURER & MODEL	OPTIONS-ACCESSORIES
			WATTS	AMPS	V / PH. / HZ.		
EBB-1	ENTRANCE	3413	1000	4.2	240/1/60	QMARK #QMKC2544W	1, 2
EBB-2	ENTRANCE	3413	1000	4.2	240/1/60	QMARK #QMKC2544W	1, 2

NOTES-OPTIONS-ACCESSORIES:
 1. UNIT MOUNTED STAT
 2. WALL MOUNTED

AIR COMPRESSOR EQUIPMENT

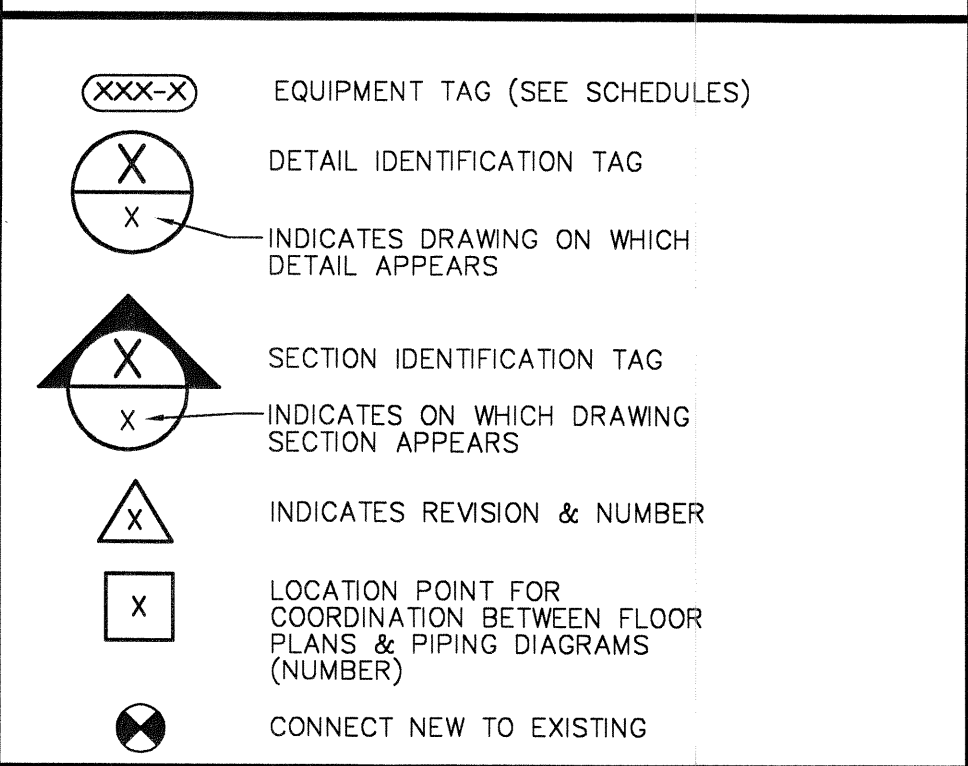
EQUIP. NO.	LOCATION	MOTOR	ELECTRICAL	TANK CAPACITY	ACFM @ 157 PSI	MANUFACTURER & MODEL NO.		NOTES
						UNIT	DRYER	
COMP-1	EQUIPMENT ROOM	7.5 HP	480/3 PH/60 HZ	72 GAL.	30.7	ATLAS-COPCO GX5	INCLUDED	1, 2, 3

NOTES/OPTIONS/ACCESSORIES:
 1. FLEXHOSE
 2. ISOLATORS
 3. AUTODRAIN VALVE

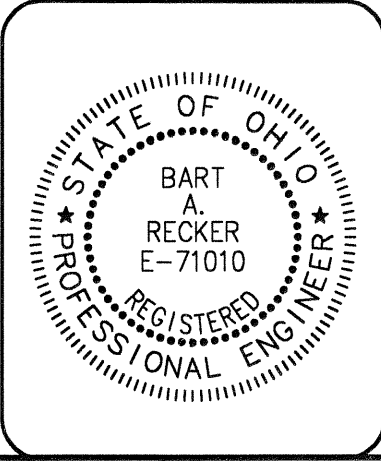
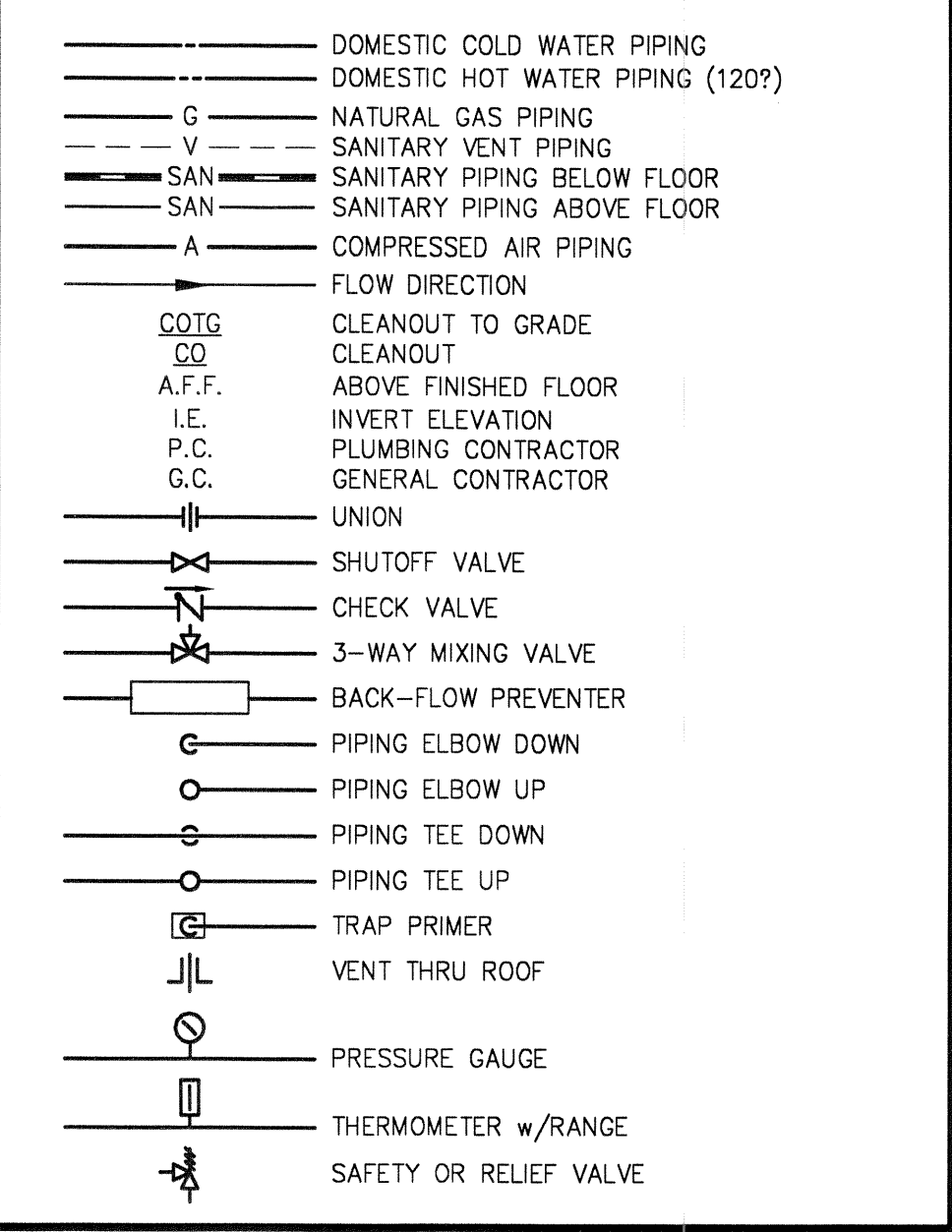
PLUMBING FIXTURE SCHEDULE

DESCRIPTION	SYMBOL	WASTE	VENT	COLD	HOT	REMARKS
WATERCLOSET WALL MOUNTED - ADA	WC-1	4"	2"	1 1/2"	-	KOHLER #K-3481 WHITE "WELLWORTH" ELONGATED BOWL, K-4670C SEAT, TANK, #K4670C SEAT, K7637 STOP AND SUPPLY. SUITABLE SUBSTITUTE: TOTO OR AMERICAN STANDARD
LAVATORY	LAV-1	2"	1 1/2"	1/2"	1/2"	KOHLER K-2005 WHITE KINGSTON LAVATORY K-7605 STOP AND FLEX SUPPLIES, K-8998 BRUN, K15182 FAUCET, AND TRUBRO #102 KIT & GRID STRAINER
ELECTRIC WATER COOLER	EW-1	1 1/2"	1 1/2"	1/2"	-	OASIS #PF8ACEE ELECTRIC WATER COOLER WITH "LEAD OUT" FILTER, BRASS P-TRAP, STOP & SUPPLY; ELECT. 120/1/60; MOUNT AT ADA HEIGHT. CABINET TO BE "SANDSTONE" COLOR.
WATER HEATER	WH-1	-	-	3/4"	3/4"	LOCHINVAR #ETX040KK (4000 WATT), 40 GALLON ELECTRIC WATER HEATER, ELEC: 208-1-60; TEMPERATURE & PRESSURE RELIEF VALVE; WALL SUPPORT.
EXPANSION TANK	EXT-1	-	-	1/2"	-	AMTROL #12T
MIXING VALVE	MV-1	-	-	1/2"	1/2"	POWERS e490-2CO MIXING VALVE
BACKFLOW PREVENTOR	BFP-1	-	-	1"	-	WATTS #009QT WITH YOKE AND RELIEF DISCHARGE TO FLOOR DRAIN
HYDRANT	HYD-1	-	-	1"	-	ZURN Z-1315 HYDRANT
HOSE BIBB	HB-1	-	-	3/4"	3/4"	WATTS #BD-1
FLOOR DRAIN	FD-1	3"	-	-	-	ZURN #ZN-415-3NL-6C-P(1/2")
HANDICAP SHOWER	SH-1	3"	-	1/2"	1/2"	SHOWER TO BE AQUAGLASS, LASCO, OR AQUATH# 065369F-FUS-RS 3/4"-R, SHOWER (O.D. DIMENSIONS 65"x37"x82 1/2" HIGH) FOLD-UP SEAT, HAND HELD SHOWER ASSEMBLY, 30" SLIDE BAR, MOEN POSTTEMP PRESSURE BALANCING CONTROL VALVE, SHOWER CURTAIN (WEIGHTED), TEMPERATURE THERMOMETER, DOME LIGHT AND HANDICAP SUPPORT BARS. RIGHT HAND UNIT, WHITE IN COLOR.
FLOOR CLEANOUT	CO-1	4"	-	-	-	ZURN ZN-1400-4NL CLEANOUT

HVAC REFERENCE SYMBOLS



PLUMBING LEGEND



NO.	DATE	DESCRIPTION



POGEMEYER DESIGN GROUP, INC.
 ARCHITECTS ENGINEERS PLANNERS
 1168 NORTH MAIN STREET
 BOWLING GREEN, OHIO 43402
 (419) 352-7537

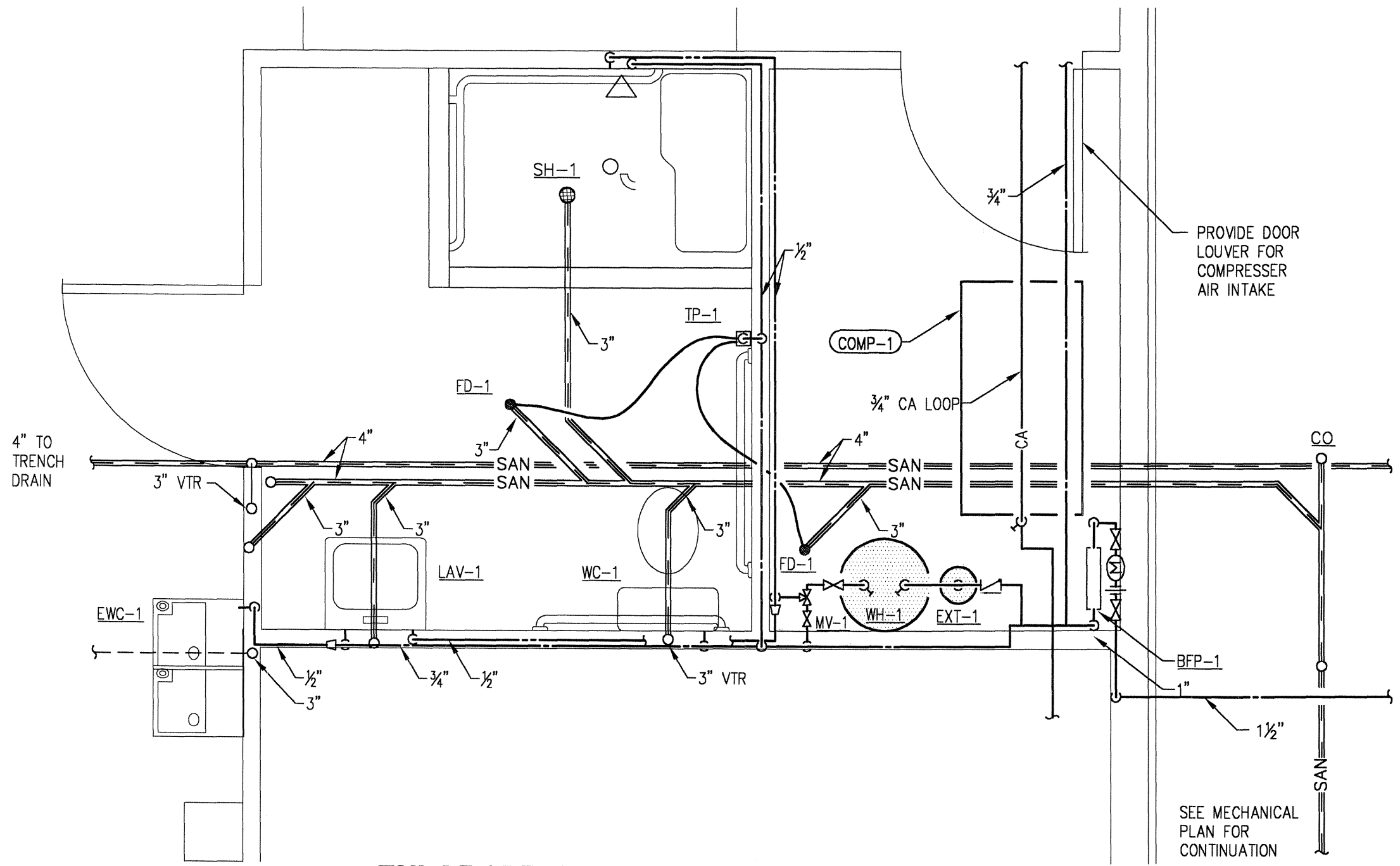
CSO IMPROVEMENTS, CSO BASIN AND PUMP STATION, VILLAGE OF OAK HARBOR, OHIO

MECHANICAL NOTES, SCHEDULES, AND SCHEMATICS

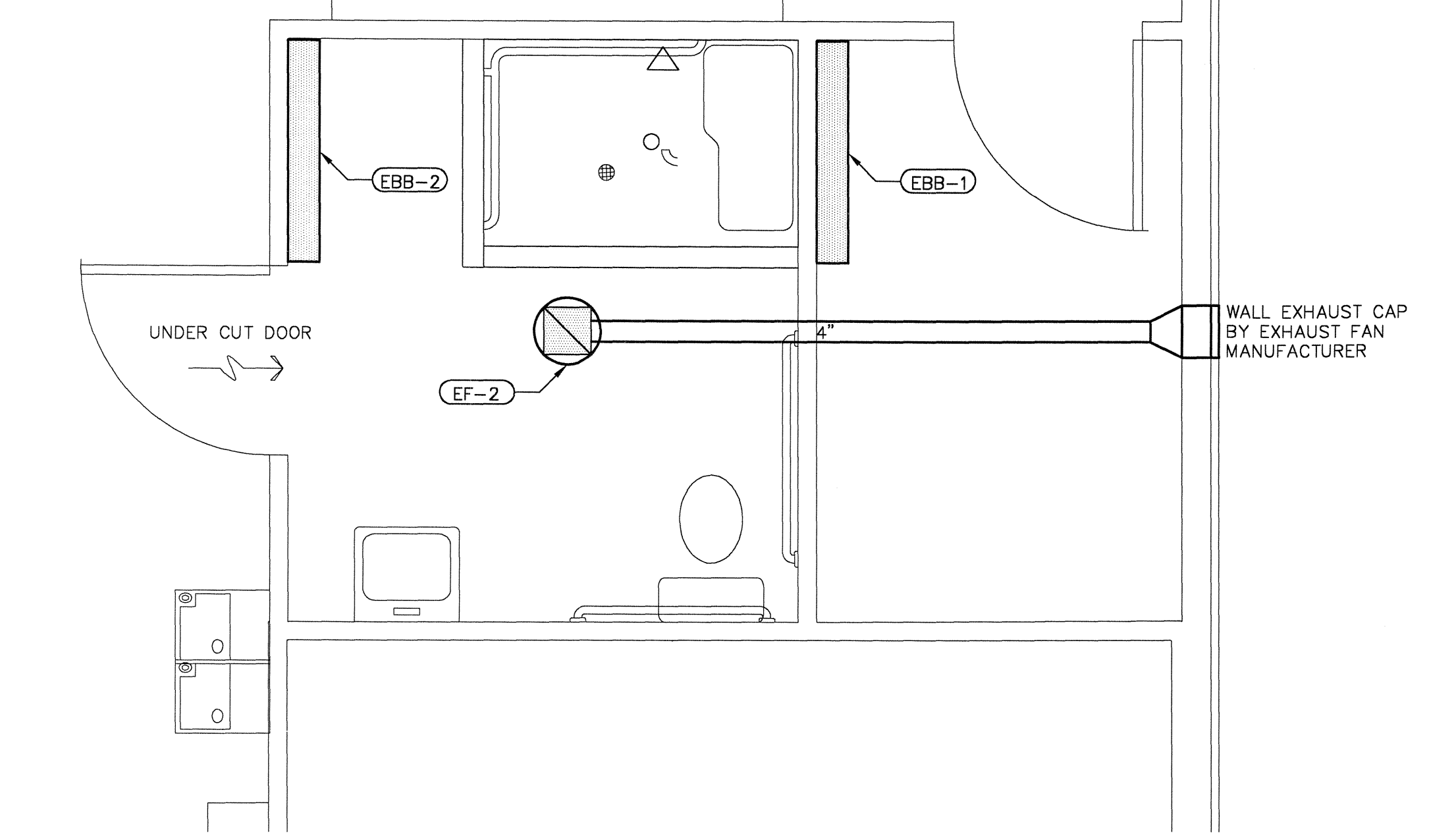
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MO.1
 OF
 JOB NUMBER 1590-120

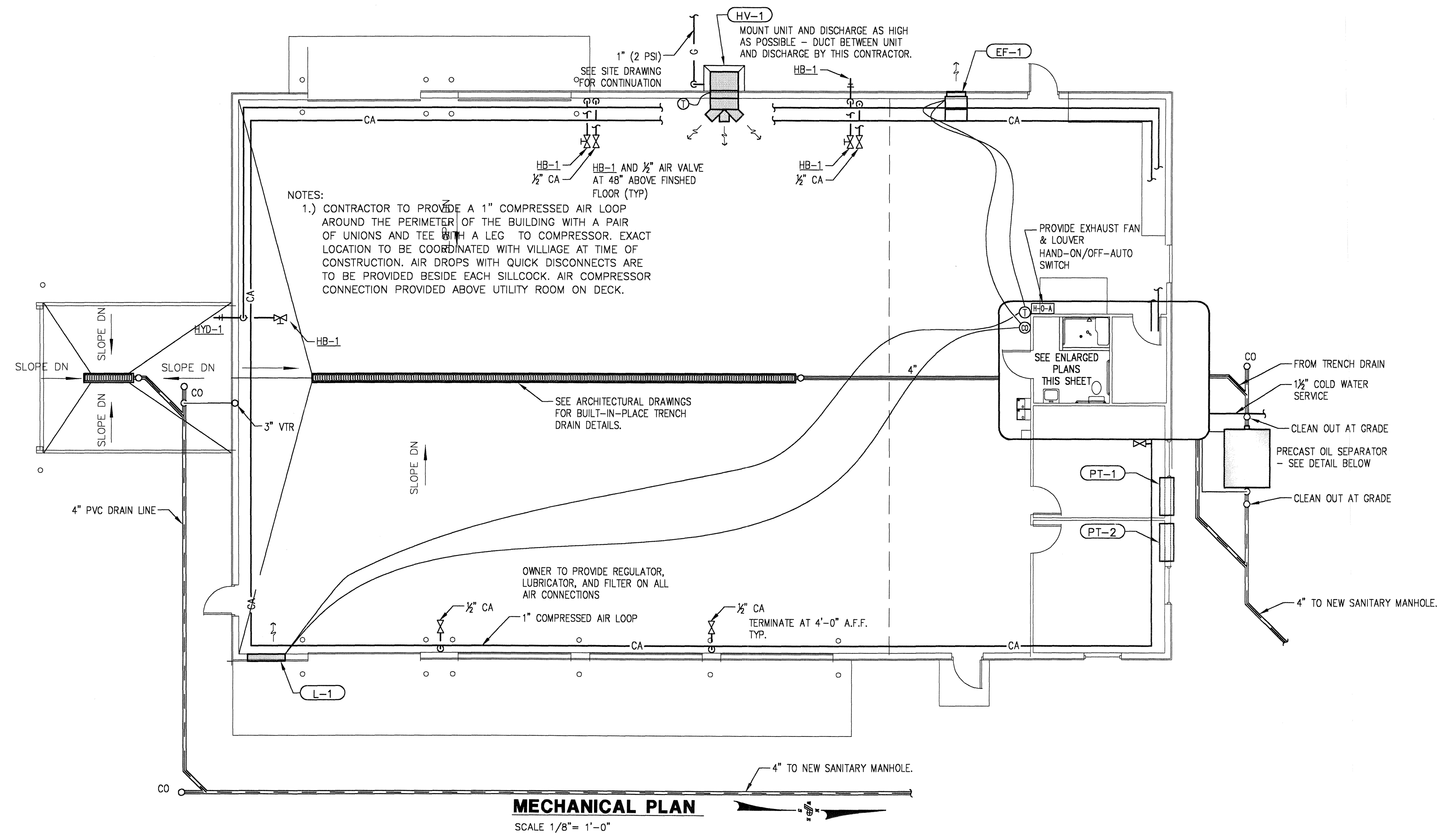
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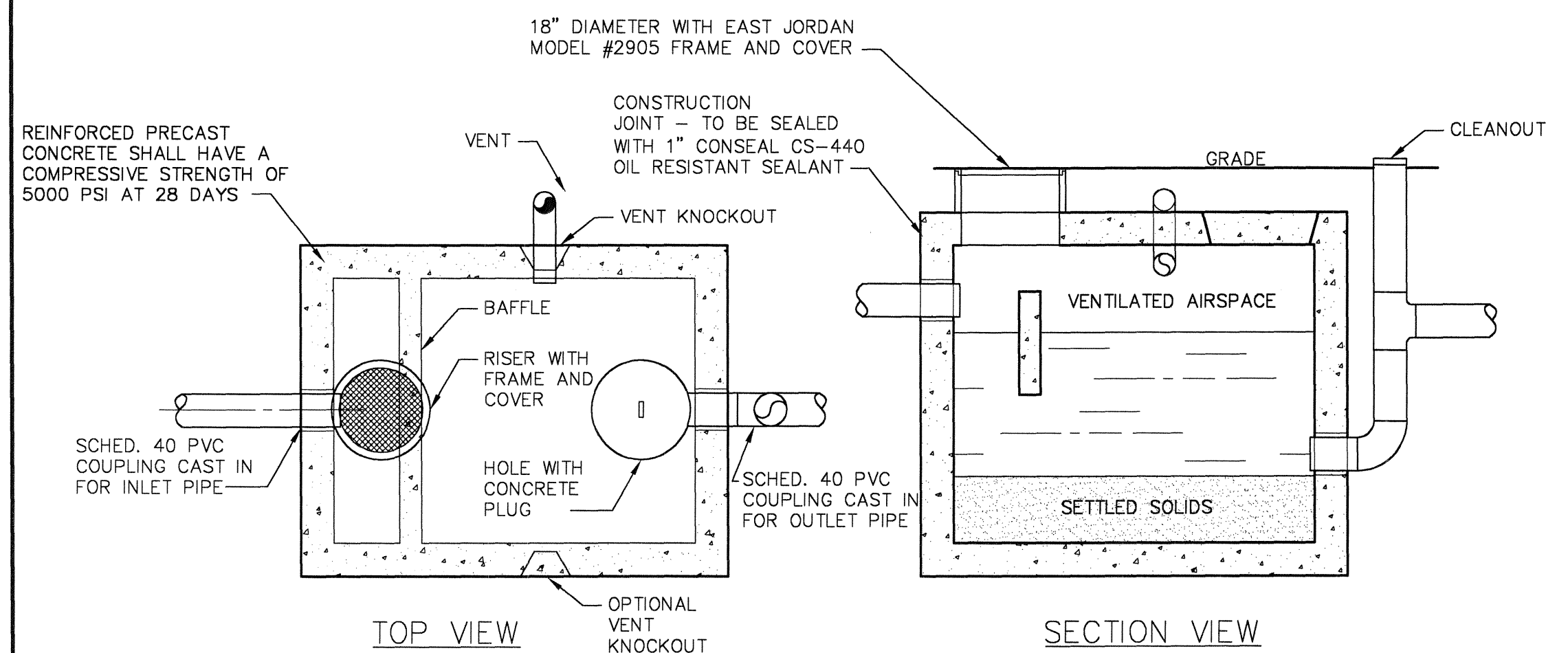
ENLARGED PLUMBING PLAN
SCALE 1/2" = 1'-0"



ENLARGED MECHANICAL PLAN
SCALE 1/2" = 1'-0"



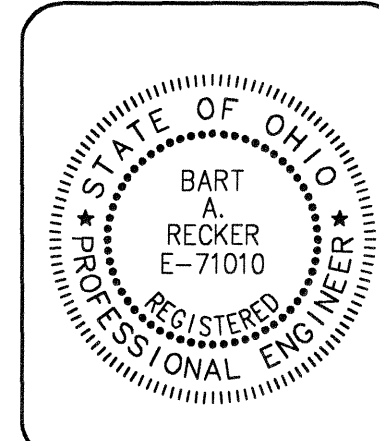
MECHANICAL PLAN
SCALE 1/8" = 1'-0"



PROVIDE SIMILAR TO MACK INDUSTRIES 50 CUBIC FEET EFFECTIVE CAPACITY TRAFFIC-BEARING OIL SEPARATOR.

SEPARATOR SHALL BE SIZED ACCORDING TO OHIO BASIC PLUMBING CODE CHAPTER 10; 4200 SQ.FT. OF DRAINABLE FLOOR AREA

PRECAST OIL AND WATER SEPARATOR
SCALE 1/2" = 1'-0"

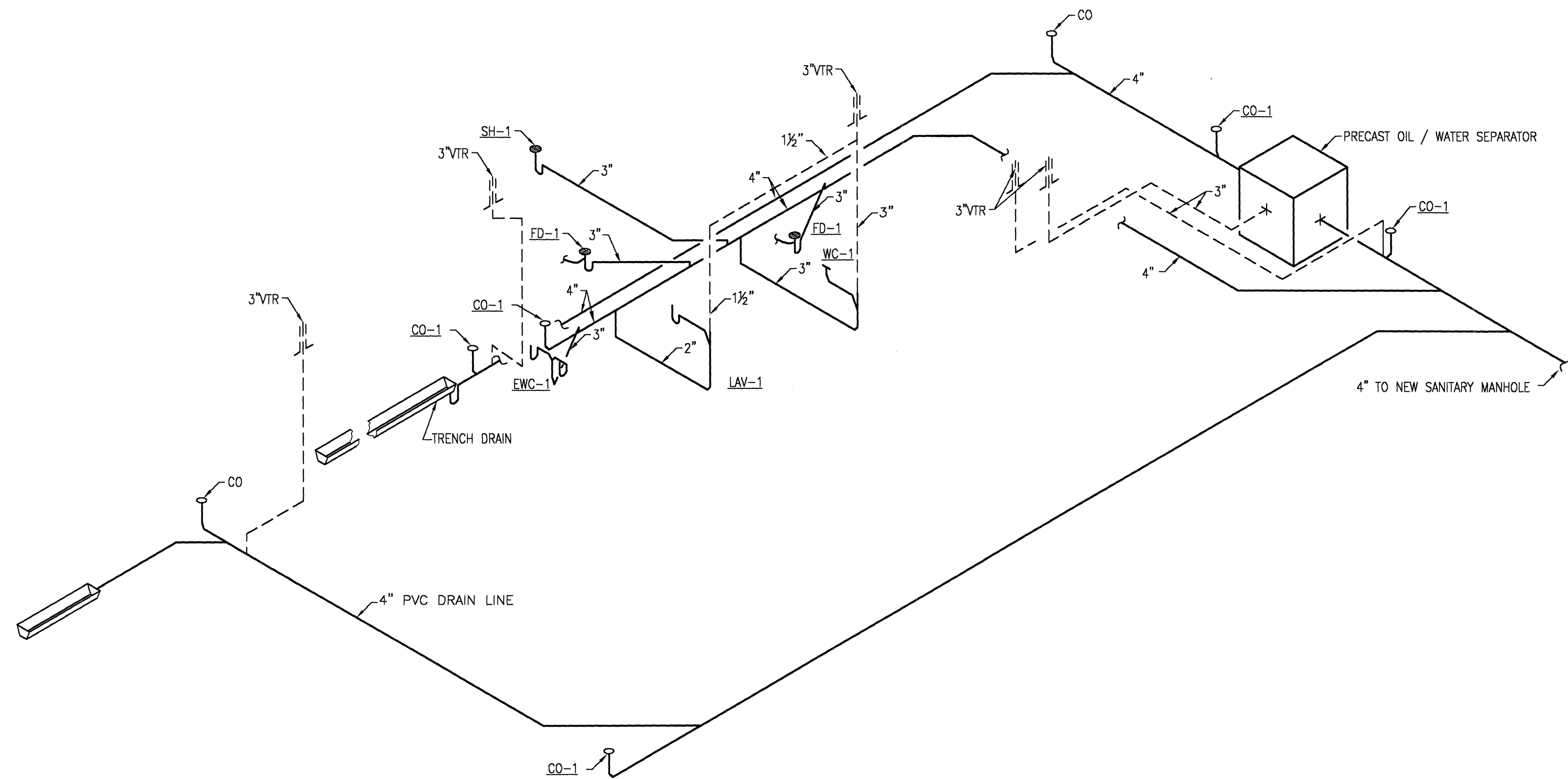


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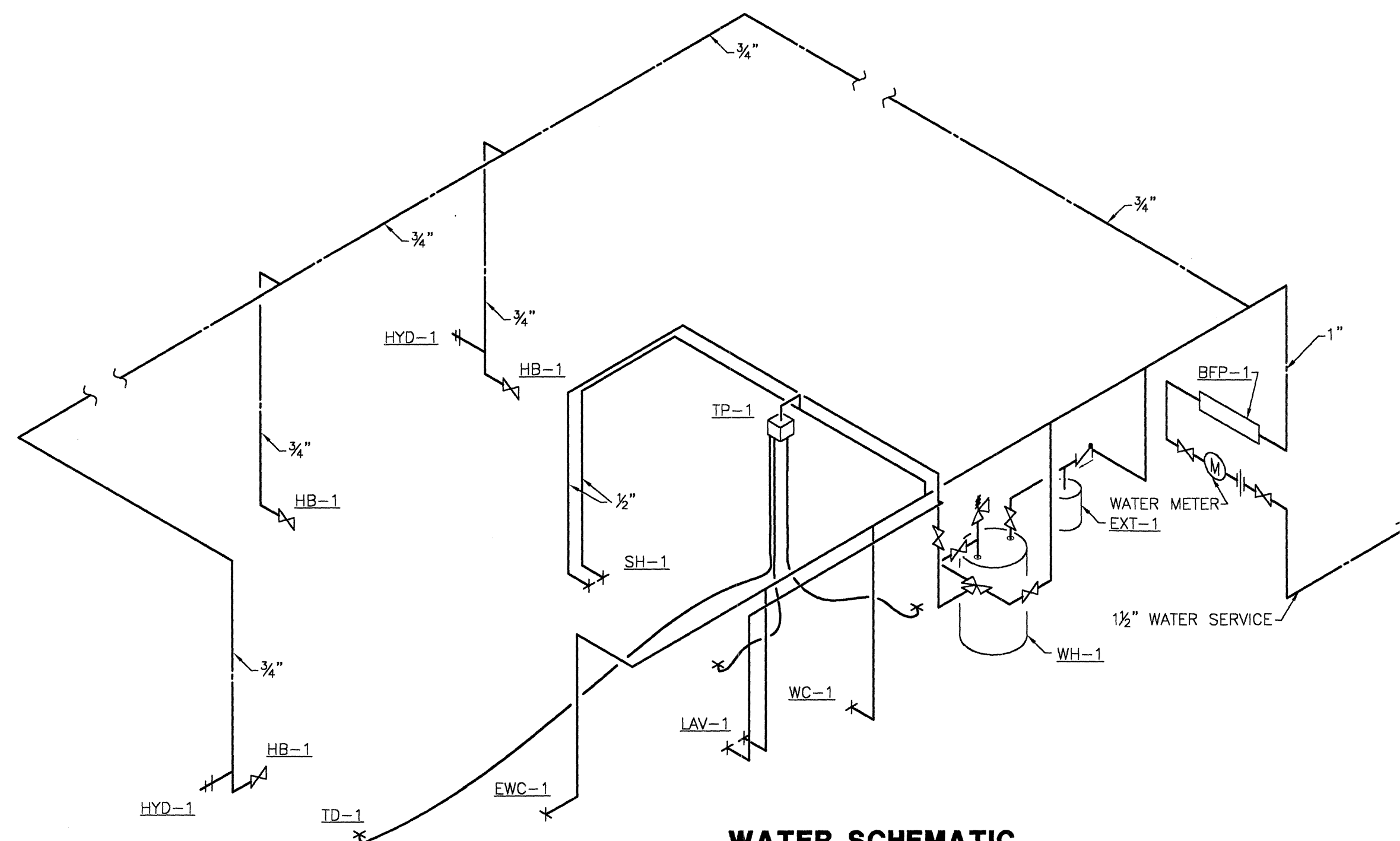
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OF
JOB NUMBER
1590-120

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 THEREOF WITHOUT THE WRITTEN CONSENT OF THE ENGINEER. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS
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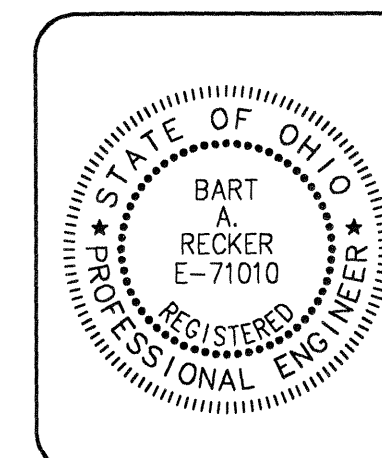
SANITARY SCHEMATIC

SCALE: NONE



WATER SCHEMATIC

SCALE: NONE



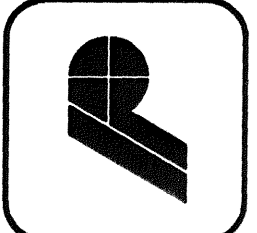
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**MAINTENANCE BUILDING
 PIPING
 SCHEMATICS**

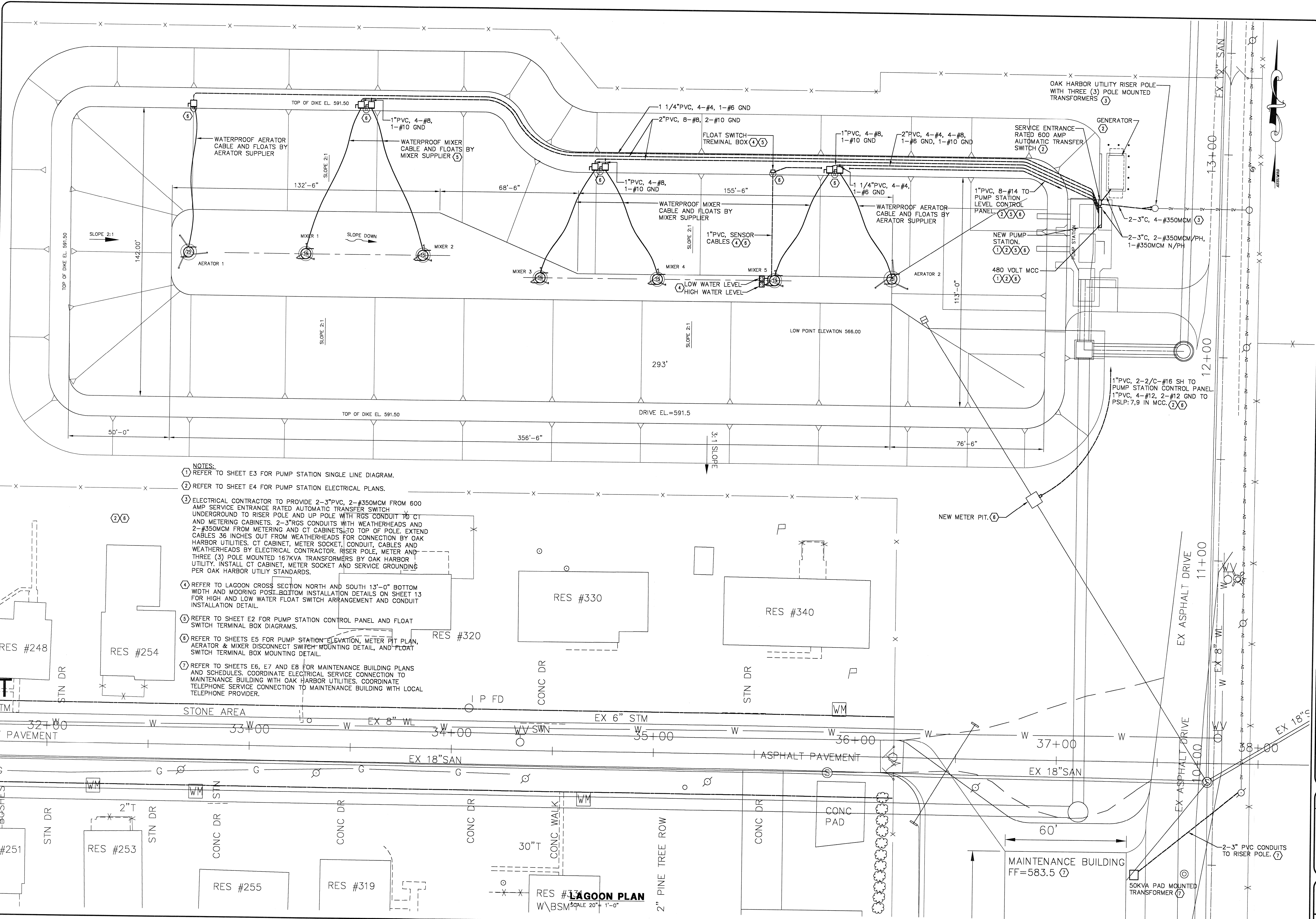
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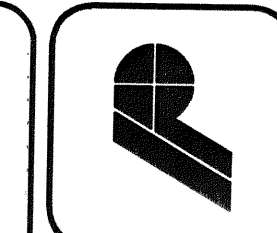


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- NOTES:**
- REFER TO SHEET E3 FOR PUMP STATION SINGLE LINE DIAGRAM.
 - REFER TO SHEET E4 FOR PUMP STATION ELECTRICAL PLANS.
 - ELECTRICAL CONTRACTOR TO PROVIDE 2-3" PVC, 2-#350MCM FROM 600 AMP SERVICE ENTRANCE RATED AUTOMATIC TRANSFER SWITCH UNDERGROUND TO RISER POLE AND UP POLE WITH RGS CONDUIT TO CT AND METERING CABINETS. 2-3" RGS CONDUITS WITH WEATHERHEADS AND 2-#350MCM FROM METERING AND CT CABINETS TO TOP OF POLE. EXTEND CABLES 36 INCHES OUT FROM WEATHERHEADS FOR CONNECTION BY OAK HARBOR UTILITIES. CT CABINET, METER SOCKET, CONDUIT, CABLES AND WEATHERHEADS BY ELECTRICAL CONTRACTOR. RISER POLE, METER AND THREE (3) POLE MOUNTED 167KVA TRANSFORMERS BY OAK HARBOR UTILITY. INSTALL CT CABINET, METER SOCKET AND SERVICE GROUNDING PER OAK HARBOR UTILITY STANDARDS.
 - REFER TO LAGOON CROSS SECTION NORTH AND SOUTH 13'-0" BOTTOM WIDTH AND MOORING POST BOTTOM INSTALLATION DETAILS ON SHEET 13 FOR HIGH AND LOW WATER FLOAT SWITCH ARRANGEMENT AND CONDUIT INSTALLATION DETAIL.
 - REFER TO SHEET E2 FOR PUMP STATION CONTROL PANEL AND FLOAT SWITCH TERMINAL BOX DIAGRAMS.
 - REFER TO SHEETS E5 FOR PUMP STATION ELEVATION, METER PIT PLAN, AERATOR & MIXER DISCONNECT SWITCH MOUNTING DETAIL, AND FLOAT SWITCH TERMINAL BOX MOUNTING DETAIL.
 - REFER TO SHEETS E6, E7 AND E8 FOR MAINTENANCE BUILDING PLANS AND SCHEDULES. COORDINATE ELECTRICAL SERVICE CONNECTION TO MAINTENANCE BUILDING WITH OAK HARBOR UTILITIES. COORDINATE TELEPHONE SERVICE CONNECTION TO MAINTENANCE BUILDING WITH LOCAL TELEPHONE PROVIDER.



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**CSO IMPROVEMENTS
 CSO BASIN AND PUMP STATION
 VILLAGE OF OAK HARBOR, OHIO**

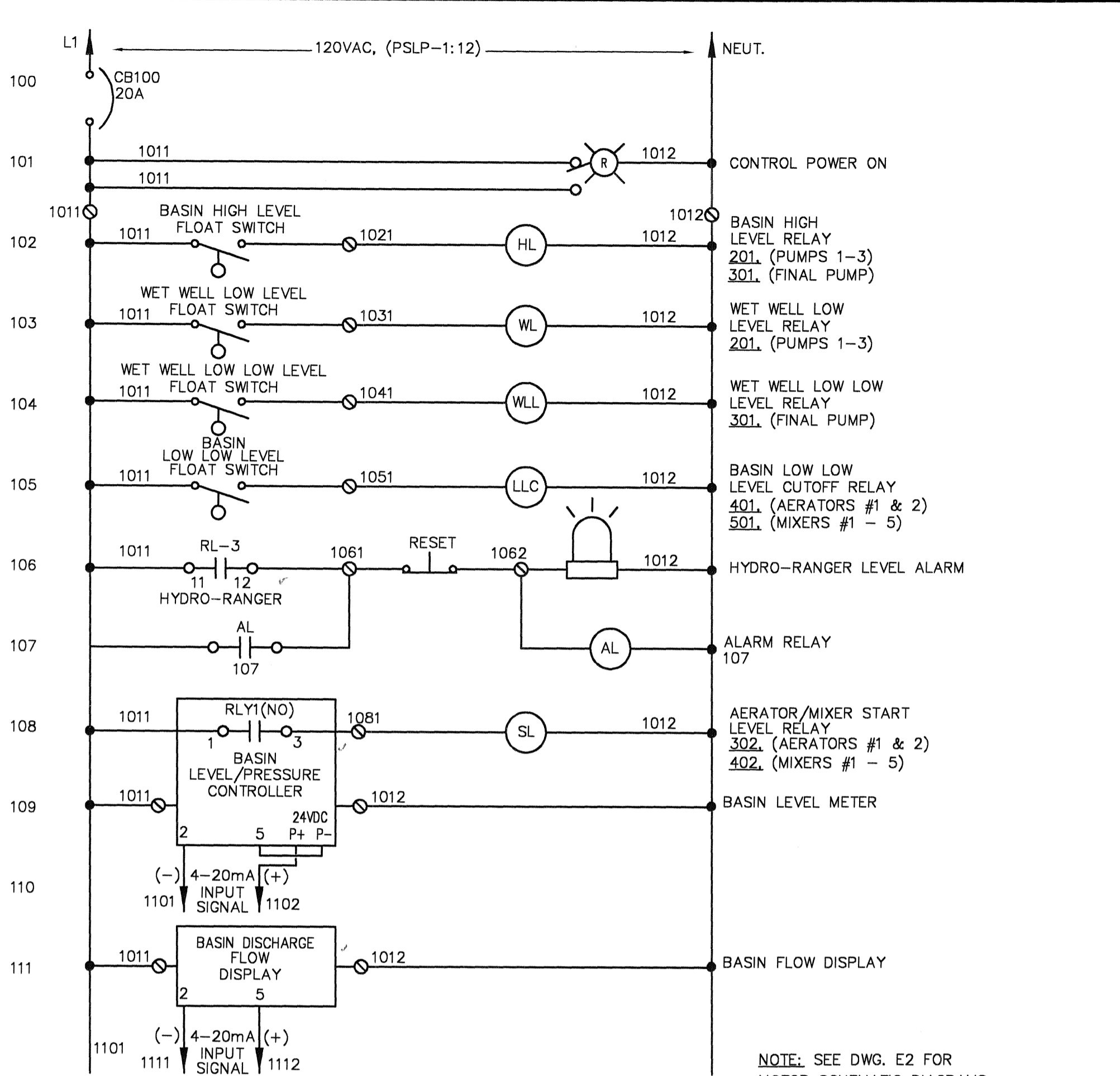
**BASIN AREA AND
 MAINTENANCE
 BLDG. SITE PLAN**

REVISION	DATE	BY	CHECKED BY

E1
OF
32
 JOB NUMBER
 1590-120

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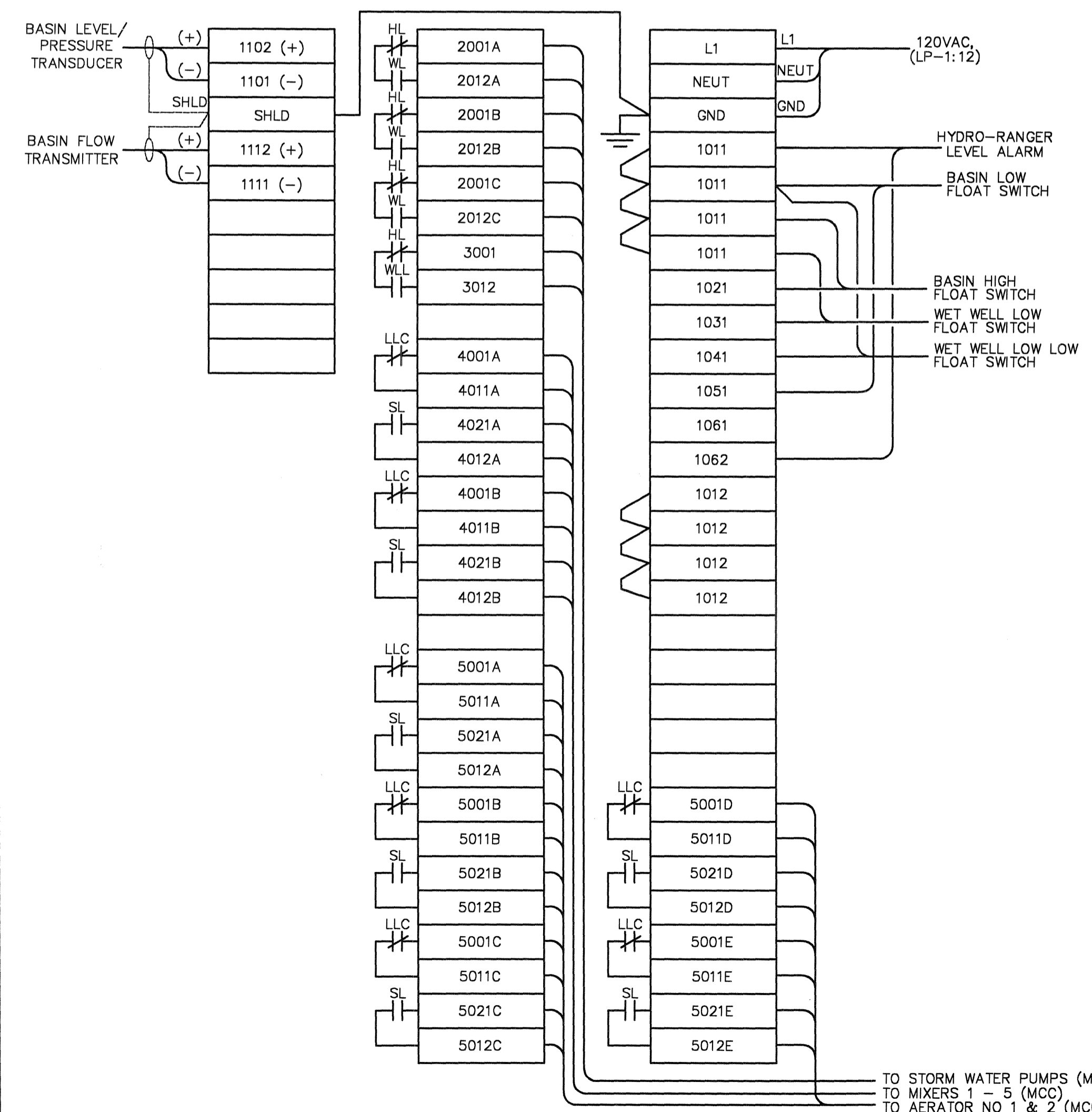
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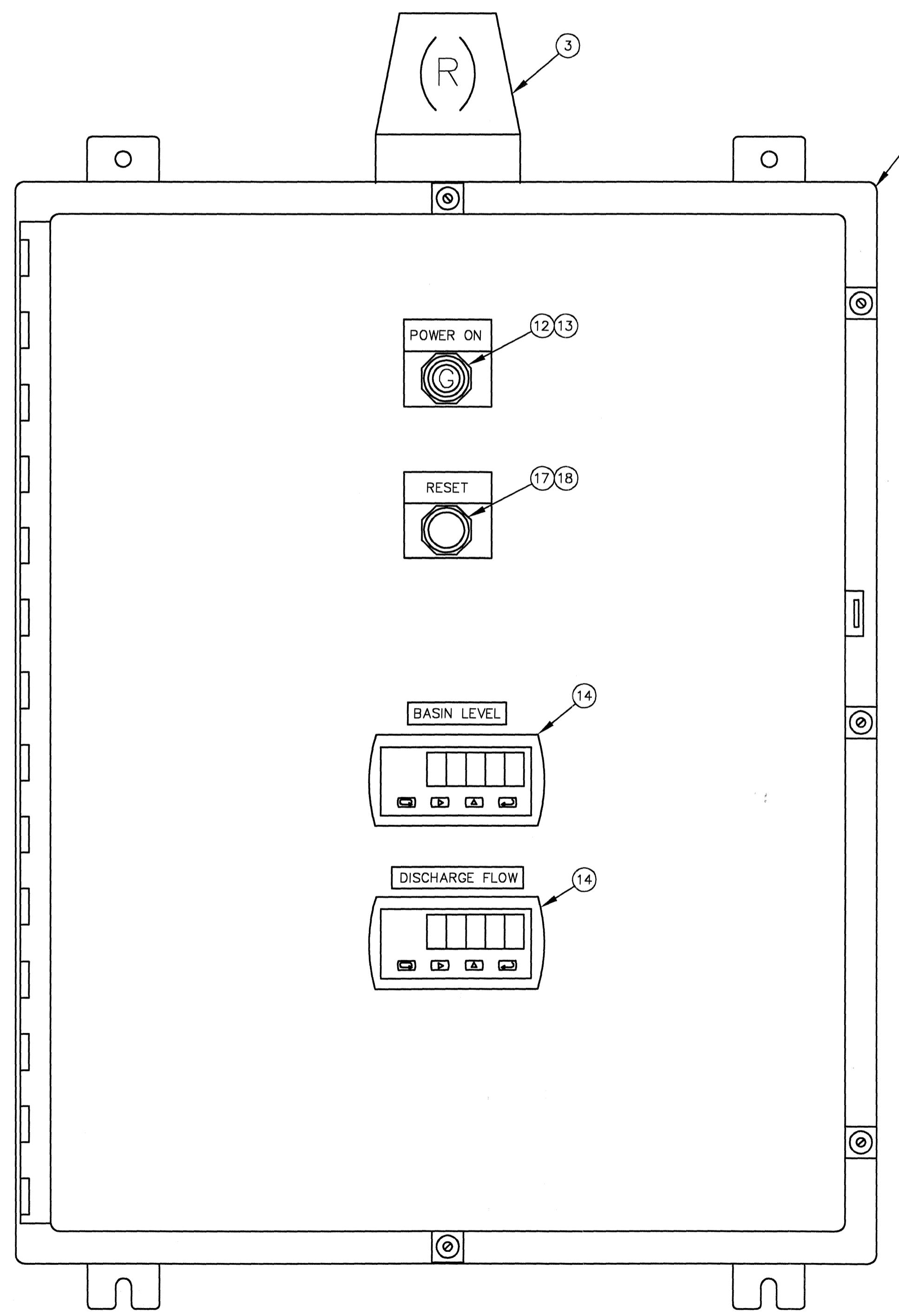
CONTROL PANEL SCHEMATIC DIAGRAM

- NOTES:**
- REFER TO SHEET E1 FOR BASIN AREA AND MAINTENANCE BUILDING SITE PLAN.
 - REFER TO SHEET E3 FOR PUMP STATION SINGLE LINE AND WIRING DIAGRAMS.
 - REFER TO SHEET E4 FOR PUMP STATION ELECTRICAL PLAN.
 - REFER TO SHEET E5 FOR PUMP STATION ELEVATION AND DETAILS.

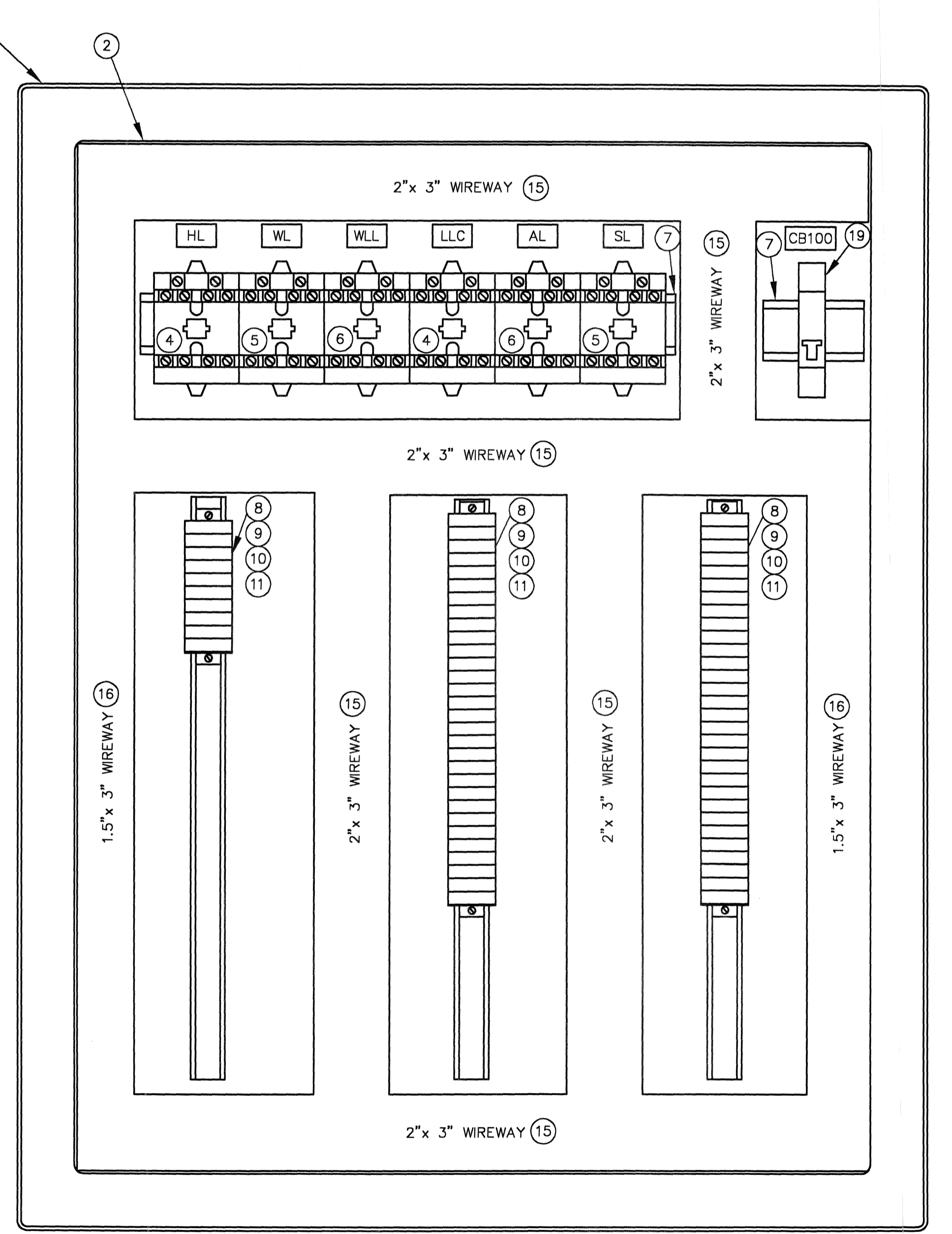
NOTE: SEE DWG. E2 FOR MOTOR SCHEMATIC DIAGRAMS



TERMINAL STRIP LAYOUT



FRONT PANEL LAYOUT
SCALE: NTS



SUP-PANEL LAYOUT
SCALE: 1/2"=1"

ITEM	QTY.	DESCRIPTION	MFG.	CAT. #
1	1	STAINLESS STEEL, NEMA 4X, ENCLOSURE, 30"Hx24"Wx8"D	HOFFMAN	A30H2408SSLP
2	1	PAINTED STEEL BACK-PANEL, 27"x21"	HOFFMAN	A30P24
3	1	BEACON WARNING LIGHT, RED LENS, NEMA 4X, LED, 120VAC	EDWARDS SIGNAL	48FLEDR-N5
4	2	HEAVY-DUTY INDUSTRIAL RELAY, 120VAC, 8 N.C., 4 N.O.	ALLEN-BRADLEY	700-P1200D1
5	2	HEAVY-DUTY INDUSTRIAL RELAY, 120VAC, 12 N.O.	ALLEN-BRADLEY	700-P1200D1
6	2	HEAVY-DUTY INDUSTRIAL RELAY, 120VAC, 4 N.O.	ALLEN-BRADLEY	700-P400D1
7	AS REQ'D	SYMMETRICAL DIN RAIL, STEEL	ALLEN-BRADLEY	199-DR1
8	70	TERMINAL BLOCKS, 300V, 25A	ALLEN-BRADLEY	1492-F1
9	3	TERMINAL BLOCK END BARRIERS	ALLEN-BRADLEY	1492-N18
10	6	TERMINAL BLOCK END ANCHORS	ALLEN-BRADLEY	1492-N23
11	AS REQ'D	TERMINAL BLOCK MOUNTING CHANNEL, SCORED	ALLEN-BRADLEY	1492-N1
12	1	PILOT LIGHT, PUSH TO TEST, 120VAC, LED, RED LENS NEMA 4X	ALLEN-BRADLEY	800H-QRTH10R
13	1	STANDARD LEGEND PLATE, "POWER ON"	ALLEN-BRADLEY	800T-X639
14	2	DIGITAL DISPLAY, 4-20mA INPUT, 2-SPDT PROG. CONTACTS, NEMA 4X	PRECISION DIGITAL	PD765-6R2-10
15	AS REQ'D	2"x 3" SNAP COVER WIREWAY W/COVER, WHITE PVC	PANDUIT	F2X3IB6/C21B6
16	AS REQ'D	1.5"x 3" SNAP COVER WIREWAY W/COVER, WHITE PVC	PANDUIT	F15X3IB6/C15IB6
17	1	PUSHBUTTON, FLUSH HEAD, BLACK BUTTON, NEMA 4X	ALLEN-BRADLEY	800H-R2D1
18	1	STANDARD LEGEND PLATE, "RESET"	ALLEN-BRADLEY	800T-X536
19	1	CIRCUIT BREAKER, 20A, DIN RAIL MTG.	ALLEN-BRADLEY	1492-CB1F200
20				
21				



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CSO BASIN AND PUMP STATION
VILLAGE OF OAK HARBOR, OHIO

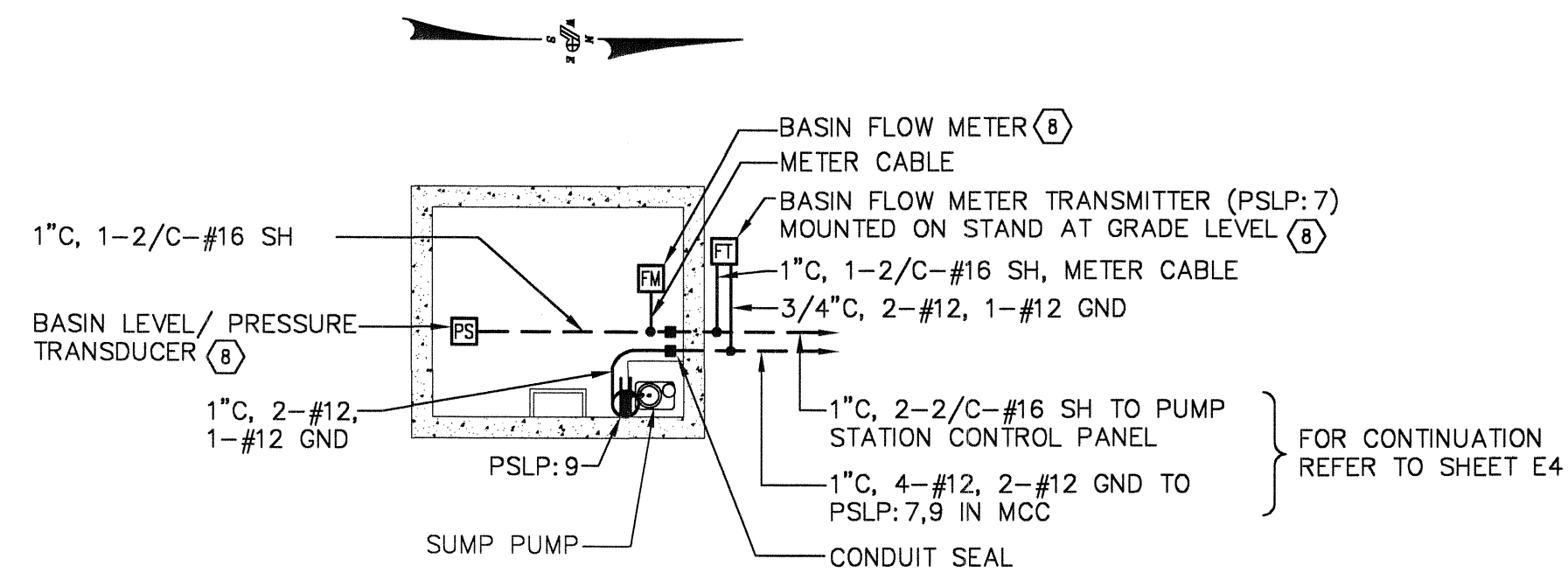
PUMP STATION CONTROL PANEL SCHEMATIC

DRAWN BY: J.R.S.
CHECKED BY: D.L.K.

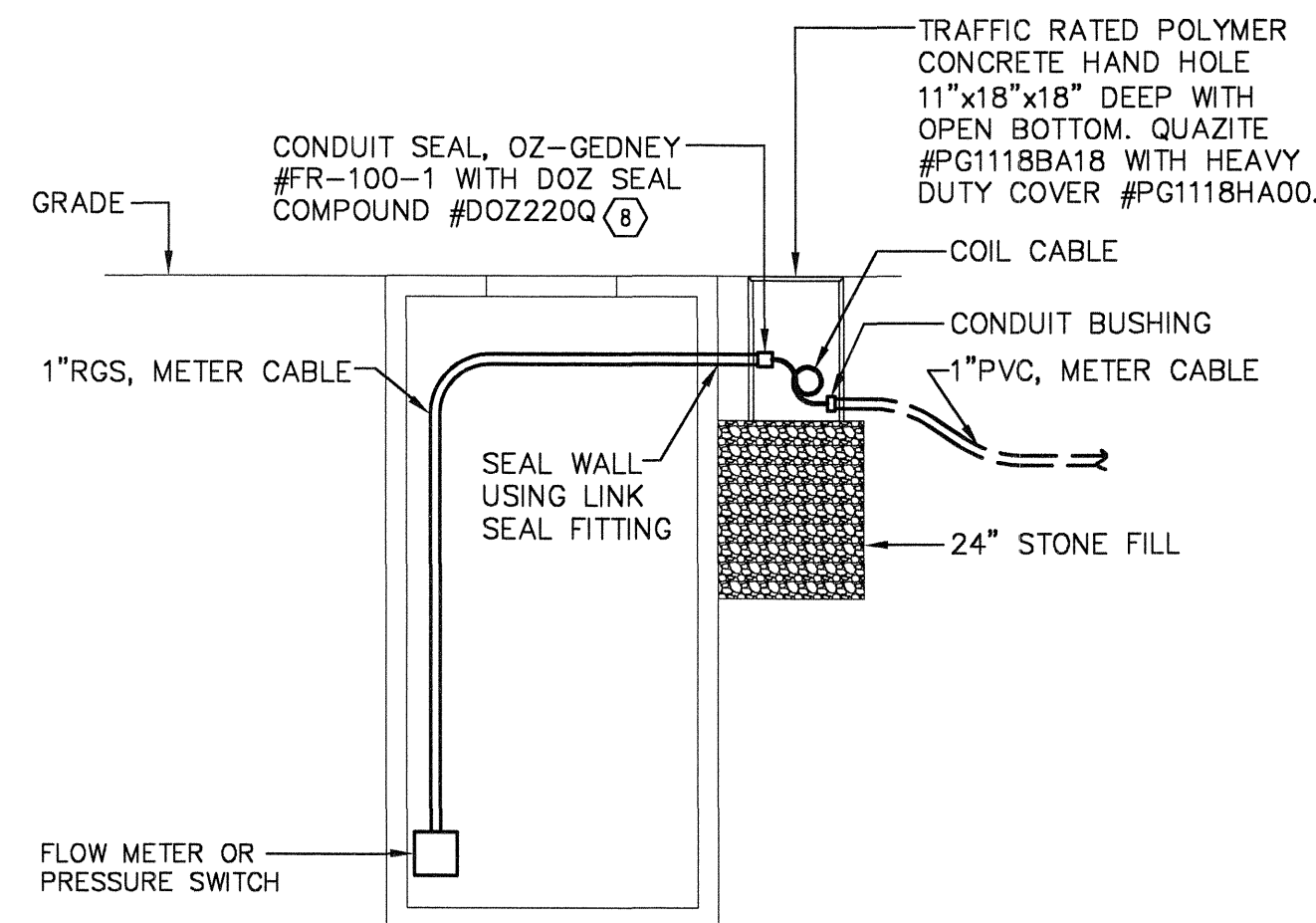
REVISION

E2
OF
32
JOB NUMBER
1590-120

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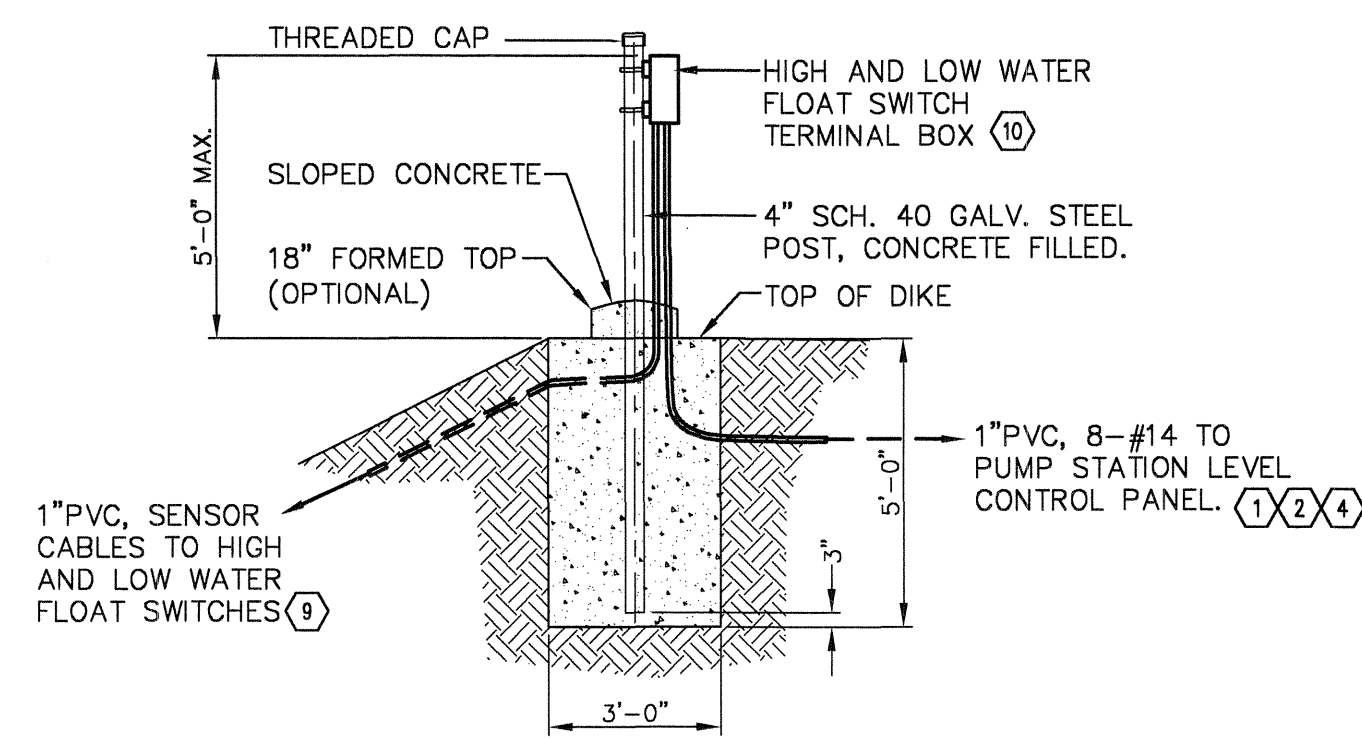


NEW METER PIT DETAIL
SCALE: 3/8" = 1'-0"

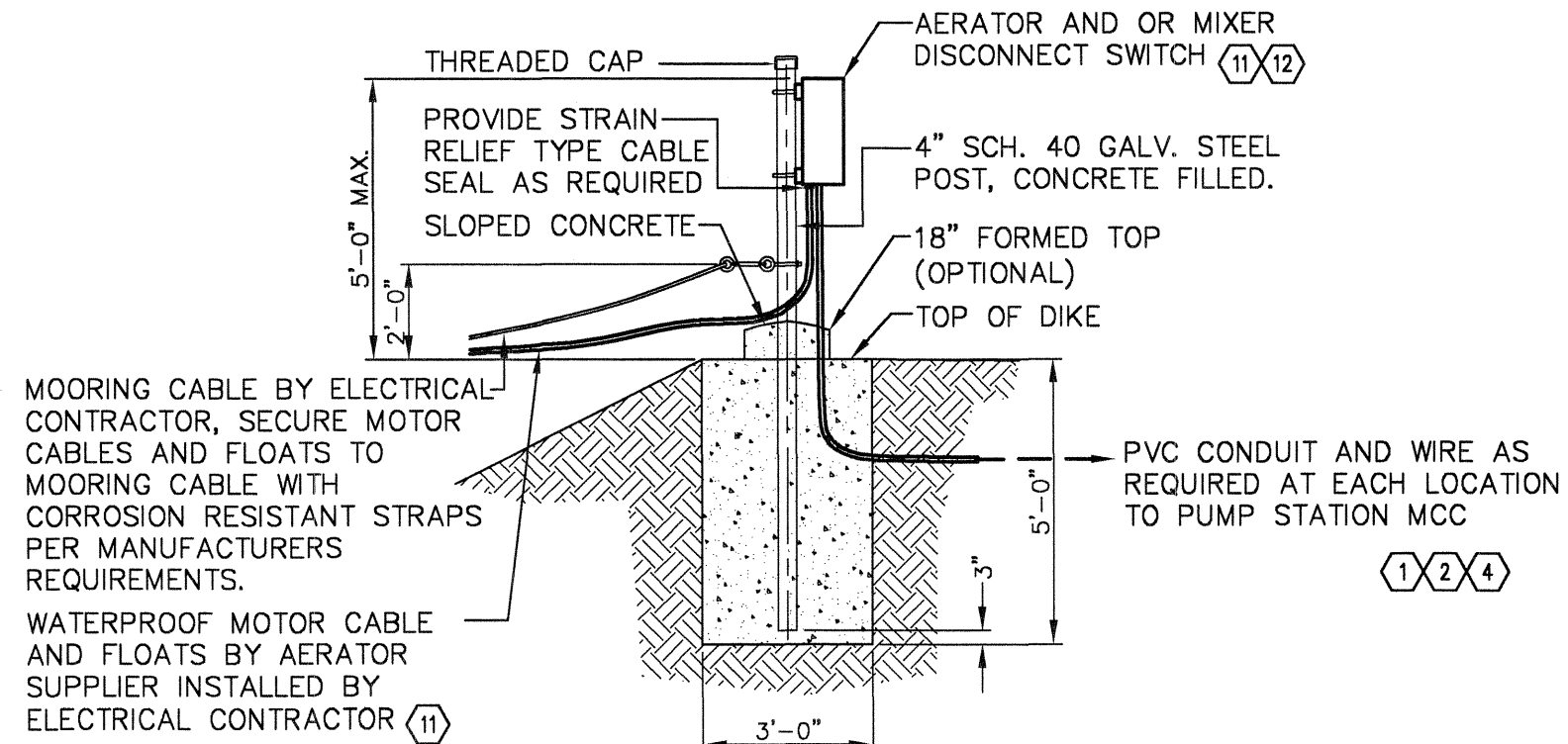


TYPICAL METER PIT CONDUIT SEAL DETAIL
NOT TO SCALE

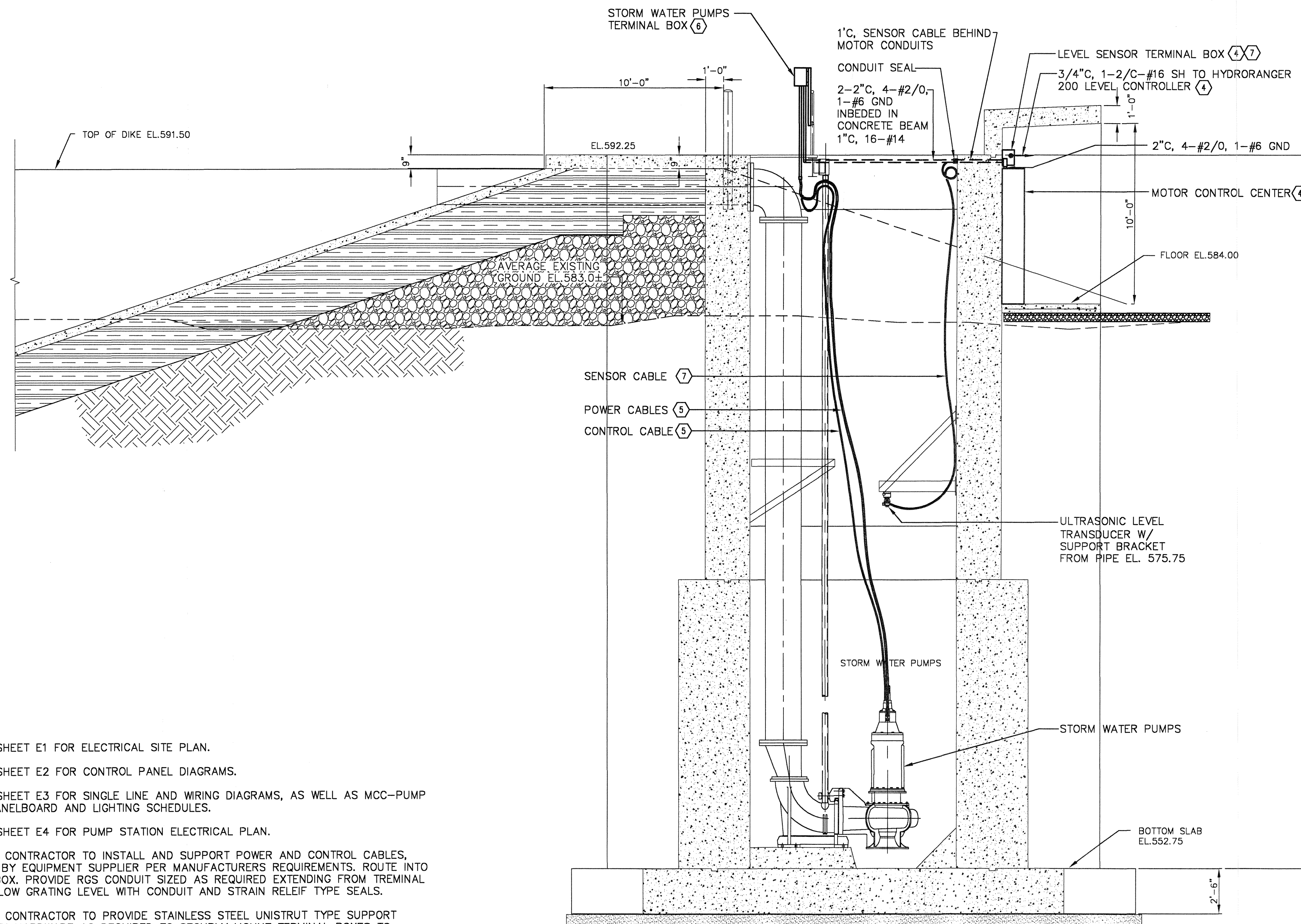
NOTE:
ALL CONDUITS ENTERING METER PIT TO BE SEALED IN LIKE MANNER.



FLOAT SWITCH TERMINAL BOX MOUNTING DETAIL
SCALE: 3/8" = 1'-0"



AERATOR & MIXER DISCONNECT SWITCH MOUNTING DETAIL
SCALE: 3/8" = 1'-0"



PUMP STATION ELEVATION

SECTION 1
SCALE: 1/4" = 1'-0" E4

NOTE:
MOTOR SHOWN IS 100 HORSEPOWER, THERE ARE THREE (3) 100HP AND ONE (1) 10HP MOTORS.

- NOTES:
- (1) REFER TO SHEET E1 FOR ELECTRICAL SITE PLAN.
 - (2) REFER TO SHEET E2 FOR CONTROL PANEL DIAGRAMS.
 - (3) REFER TO SHEET E3 FOR SINGLE LINE AND WIRING DIAGRAMS, AS WELL AS MCC-PUMP STATION PANELBOARD AND LIGHTING SCHEDULES.
 - (4) REFER TO SHEET E4 FOR PUMP STATION ELECTRICAL PLAN.
 - (5) ELECTRICAL CONTRACTOR TO INSTALL AND SUPPORT POWER AND CONTROL CABLES, FURNISHED BY EQUIPMENT SUPPLIER PER MANUFACTURERS REQUIREMENTS. ROUTE INTO TERMINAL BOX. PROVIDE RGS CONDUIT SIZED AS REQUIRED EXTENDING FROM TERMINAL BOX TO BELOW GRATING LEVEL WITH CONDUIT AND STRAIN RELIEF TYPE SEALS.
 - (6) ELECTRICAL CONTRACTOR TO PROVIDE STAINLESS STEEL UNISTRUT TYPE SUPPORT SYSTEM WITH HARDWARE AS REQUIRED TO SECURELY MOUNT TERMINAL BOXES TO HANDRAIL. COORDINATE TERMINAL BOX MOUNTING HEIGHT AND LOCATION WITH OWNER.
 - (7) LEVEL SENSOR AND CABLE FURNISHED BY EQUIPMENT SUPPLIER, INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE SUPPORT FOR CABLE AND INSTALL 1" CONDUIT SLEEVE THRU COMPLETE WITH BUSHING AND CONDUIT SEAL AS REQUIRED TO STAINLESS STEEL NEMA 4X TERMINAL BOX. TERMINAL BOX FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR AND SIZED AS REQUIRED.
 - (8) REFER TO NEW METER PIT DETAIL ON SHEET 13 FOR METER PIT PLAN, ELEVATION AND EQUIPMENT ARRANGEMENT.
 - (9) REFER TO LAGOON CROSS SECTION NORTH AND SOUTH 13'-0" BOTTOM WIDTH AND MOORING POST BOTTOM INSTALLATION DETAILS ON SHEET 13 FOR HIGH AND LOW WATER FLOAT SWITCH ARRANGEMENT AND CONDUIT INSTALLATION DETAIL.
 - (10) ELECTRICAL CONTRACTOR TO PROVIDE STAINLESS STEEL UNISTRUT TYPE SUPPORT SYSTEM WITH HARDWARE AS REQUIRED TO SECURELY MOUNT TERMINAL BOX TO STEEL POST. NEMA 4X STAINLESS STEEL TERMINAL BOX FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR AND SIZED AS REQUIRED.
 - (11) REFER TO LAGOON CROSS SECTIONS AND MOORING POST BOTTOM INSTALLATION DETAILS ON SHEET 13 FOR MIXER AND AERATOR MOTOR INSTALLATION DETAILS.
 - (12) ELECTRICAL CONTRACTOR TO PROVIDE STAINLESS STEEL UNISTRUT TYPE SUPPORT SYSTEM WITH HARDWARE AS REQUIRED TO SECURELY MOUNT DISCONNECT SWITCH TO STEEL POST. DISCONNECT SWITCH IN NEMA 4X STAINLESS STEEL ENCLOSURE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR AND SIZED TO MATCH MOTOR HORSEPOWER RATING.

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PANELBOARD DESIGNATION MDP		100 AMPERE BUS			
LOCATION SOUTHWEST CORNER OF BUILDING		100 AMPERE MAIN BREAKER			
480/277 VOLTS 3 PHASE 4 WIRE		10,000 AMPERE INTERRUPTING CAP			
X AC, SOLID NEUTRAL		ALL BREAKERS 20 AMP UNLESS NOTED			
X SURFACE FLUSH MOUNTING		ENCLOSURE			
BKR POS.	LOAD DESCRIPTION	KVA	BKR POS.		
1	LIGHTING TRANSFORMER	7.2	2		
3	FOR LP	7.2	4		
5	LIGHTING - MAIN GARAGE BAY	1.75	6		
7	LIGHTING - MAIN GARAGE BAY	1.75	8		
9	LIGHTING - MAIN GARAGE BAY	1.75	10		
11	EMERGENCY LIGHTING	.50	12		
13	SPARE		14		
15	SPARE		16		
17	SPARE		18		
19	SPARE		20		
21			22		
23			24		
25			26		
27			28		
29			30		
31			32		
33			34		
35			36		
37			38		
39			40		
41			42		
SUB TOTAL KVA		20.15	TVSS	19.99	SUB TOTAL KVA
TOTAL KVA		40.14	TOTAL AMPERES		48.34

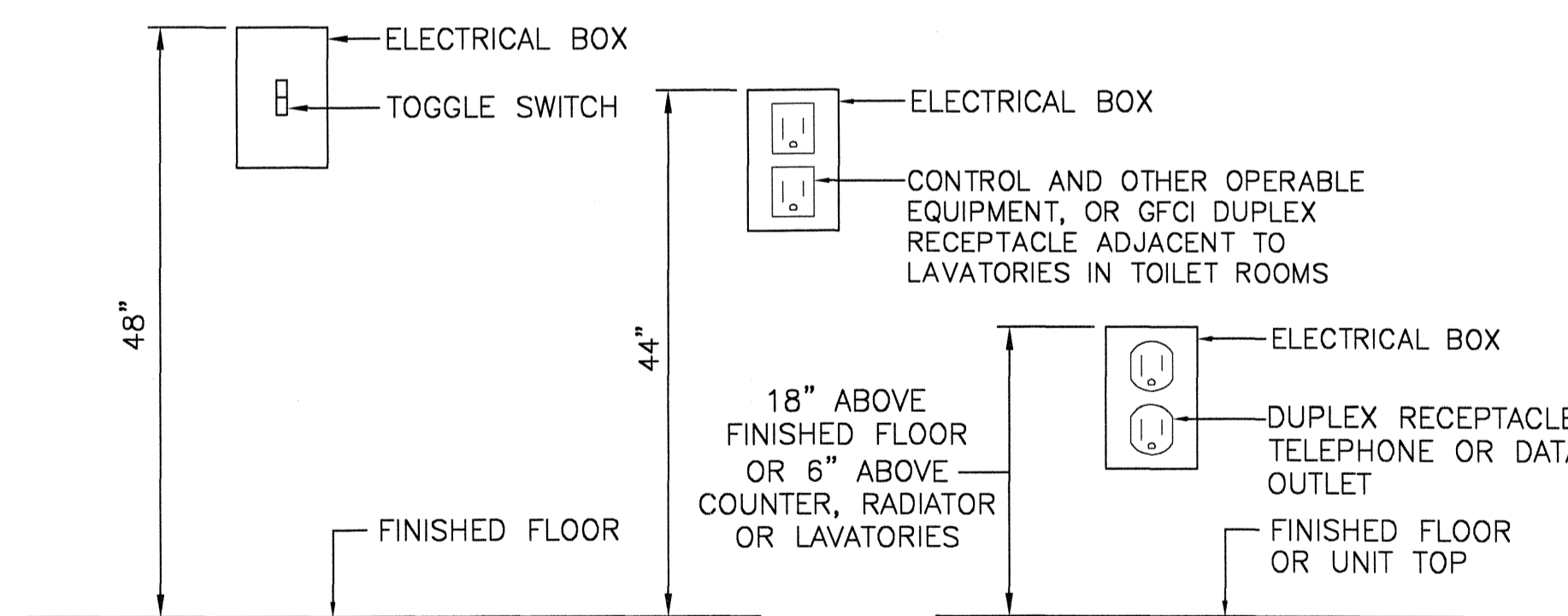
PANELBOARD DESIGNATION LP		100 AMPERE BUS			
LOCATION SOUTHWEST CORNER OF BUILDING		80 AMPERE MAIN BREAKER			
120/240 VOLTS 1 PHASE 3 WIRE		10,000 AMPERE INTERRUPTING CAP			
X AC, SOLID NEUTRAL		ALL BREAKERS 20 AMP UNLESS NOTED			
X SURFACE FLUSH MOUNTING		ENCLOSURE			
BKR POS.	LOAD DESCRIPTION	KVA	BKR POS.		
1	OFFICE & PLAN ROOM LIGHTING	.55	2		
3	REST ROOM LIGHTING	.75	4		
5	LIGHTING - EXT. PERIMETER	.75	6		
7	OVHD. DR. EAST WALL, NORTH	1.0	8		
9	OVHD. DR. E. WALL, MIDDLE N.	1.0	10		
11	OVHD. DR. E. WALL, MIDDLE S.	1.0	12		
13	OVHD. DR. EAST WALL, SOUTH	1.0	14		
15	OVHD. DR. WEST WALL, NORTH	1.0	16		
17	OVHD. DR. WEST WALL, SOUTH	1.0	18		
19	UTILITY ROOM EBB-1 HEATER	.50	20		
21		.50	22		
23	RESTROOM EBB-2 HEATER	.50	24		
25		.50	26		
27			28		
29	SPARE		30		
31			32		
33			34		
35			36		
37			38		
39			40		
41			42		
SUB TOTAL KVA		10.05	14.14	SUB TOTAL KVA	
TOTAL KVA		24.19	TOTAL AMPERES		100.79

SYMBOL AND FIXTURE SCHEDULE

- S 120/277 VOLT AC, 20A, INDUSTRIAL SPECIFICATION GRADE SINGLE POLE TOGGLE SWITCH. SIMILAR TO COOPER #2221B. PROVIDE COVERPLATE.
- S₂ 120/277 VOLT AC, 20A, INDUSTRIAL SPECIFICATION GRADE DOUBLE POLE TOGGLE SWITCH. SIMILAR TO COOPER #2222B. PROVIDE COVERPLATE.
- S₃ 120/277 VOLT AC, 20A, INDUSTRIAL SPECIFICATION GRADE 3-WAY TOGGLE SWITCH. SIMILAR TO COOPER #2223B. PROVIDE COVERPLATE.
- S₄ 120/277 VOLT AC, 20A, INDUSTRIAL SPECIFICATION GRADE 4-WAY TOGGLE SWITCH. SIMILAR TO COOPER #2224B. PROVIDE COVERPLATE.
- ⊕ 125 VOLT AC, 20A, 3-WIRE, INDUSTRIAL SPECIFICATION GRADE GROUNDING TYPE DUPLEX RECEPTACLE. SIMILAR TO COPPER #5362B. PROVIDE COVER PLATE.
- WP ⊕ 125 VOLT AC, 20A, 3-WIRE, COMMERCIAL GRADE GROUND FAULT CIRCUIT INTERRUPTING DUPLEX RECEPTACLE. SIMILAR TO COOPER #GF20B. WP = WEATHERPROOF IN-USE METALIC COVERPLATE.
- ⊕ 250 VOLT AC, 20 AMP, NEMA 620-R RECEPTACLE OR AS REQUIRED TO MATCH PACKAGE TERMINAL UNITS SUPPLIED. SIMILAR TO COOPER #5390B OR EQUAL BY HUBBELL.
- ∇ TELEPHONE OUTLET TO MATCH OWNERS REQUIREMENTS. PROVIDE COVERPLATE. MOUNT IN SINGLE GANG BOX WITH 3/4" CONDUIT EXTENDING UP TO ABOVE CEILING.
- ∇ DATA OUTLET (CAT. 5) BOX TO MATCH OWNERS REQUIREMENTS. PROVIDE COVERPLATE. MOUNT IN SINGLE GANG BOX WITH 3/4" CONDUIT EXTENDING UP TO ABOVE CEILING.
- ∇ COMBINATION VOICE/DATA OUTLET TO MATCH OWNERS REQUIREMENTS. PROVIDE COVERPLATE. MOUNT IN SINGLE GANG BOX WITH 3/4" CONDUIT EXTENDING UP TO ABOVE CEILING.
- FLUORESCENT LIGHTING FIXTURE - LETTER INDICATES TYPE (SEE LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION)
- METAL HALIDE WALL, PENDANT OR HOOK MOUNTED FIXTURE - LETTER INDICATES TYPE
NL = NON-SWITCHED NIGHT LIGHT (SEE LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION)
- COMBINATION EXIT/EMERGENCY LIGHTING FIXTURE (SEE LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION)
- EXIT
- SINGLE HEAD REMOTE MOUNTED EMERGENCY LIGHT (SEE LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION)
- DISCONNECT SWITCH
- MOTOR, HORSE POWER AS INDICATED, FR = FRACTIONAL.
- ⊕ PHOTOELECTRIC CELL, 1000W HID BALLAST CAPACITY. SIMILAR TO INTERMATIC K4021C-120, OR EQUAL

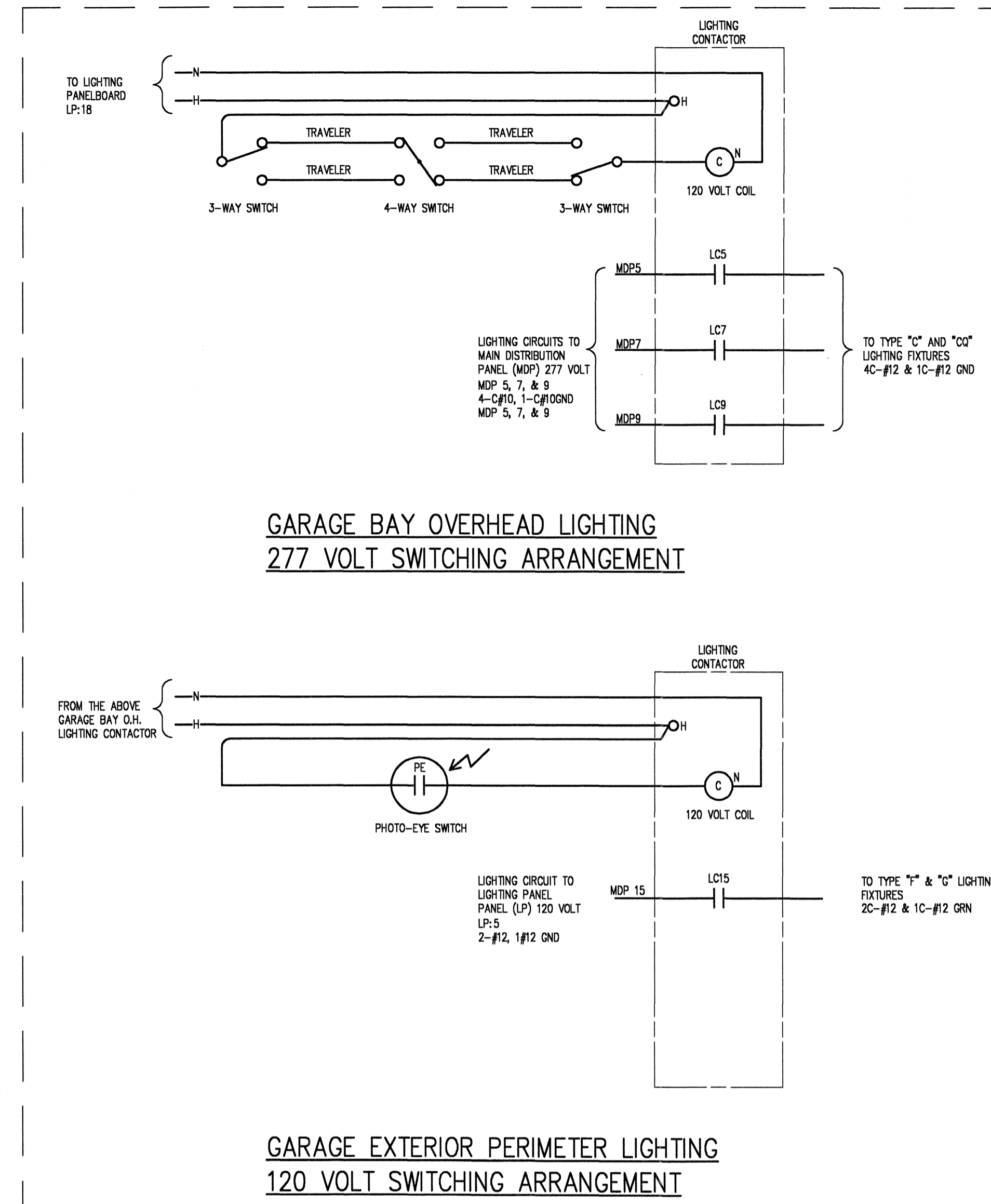
FIXTURE TYPE (TYPICAL)

PANEL AND CIRCUIT BREAKER DESIGNATION

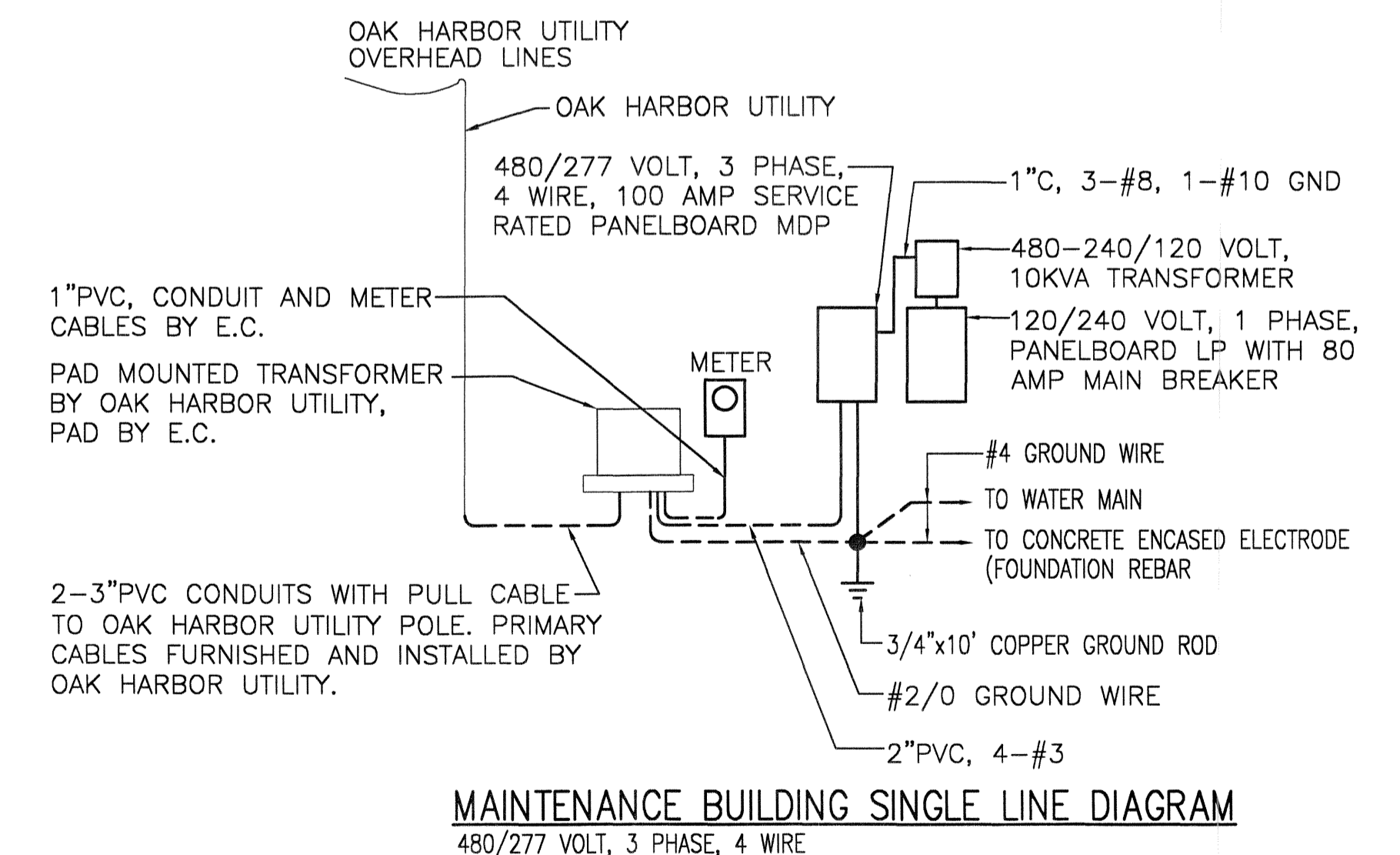


ADA MOUNTING REQUIREMENTS

- NOTES:**
- REFER TO SHEET E1 FOR BASIN AREA AND MAINTENANCE BUILDING SITE PLAN.
 - REFER TO SHEET E3 FOR PUMP STATION SINGLE LINE DIAGRAM AND LIGHTING FIXTURE SCHEDULE.
 - REFER TO SHEET E7 MAINTENANCE BUILDING LIGHTING PLAN.
 - REFER TO SHEET E8 MAINTENANCE BUILDING POWER PLAN.



INSTALL BOTH LIGHTING CONTACTORS IN ONE NEMA 1 ENCLOSURE "LC"



MAINTENANCE BUILDING SINGLE LINE DIAGRAM



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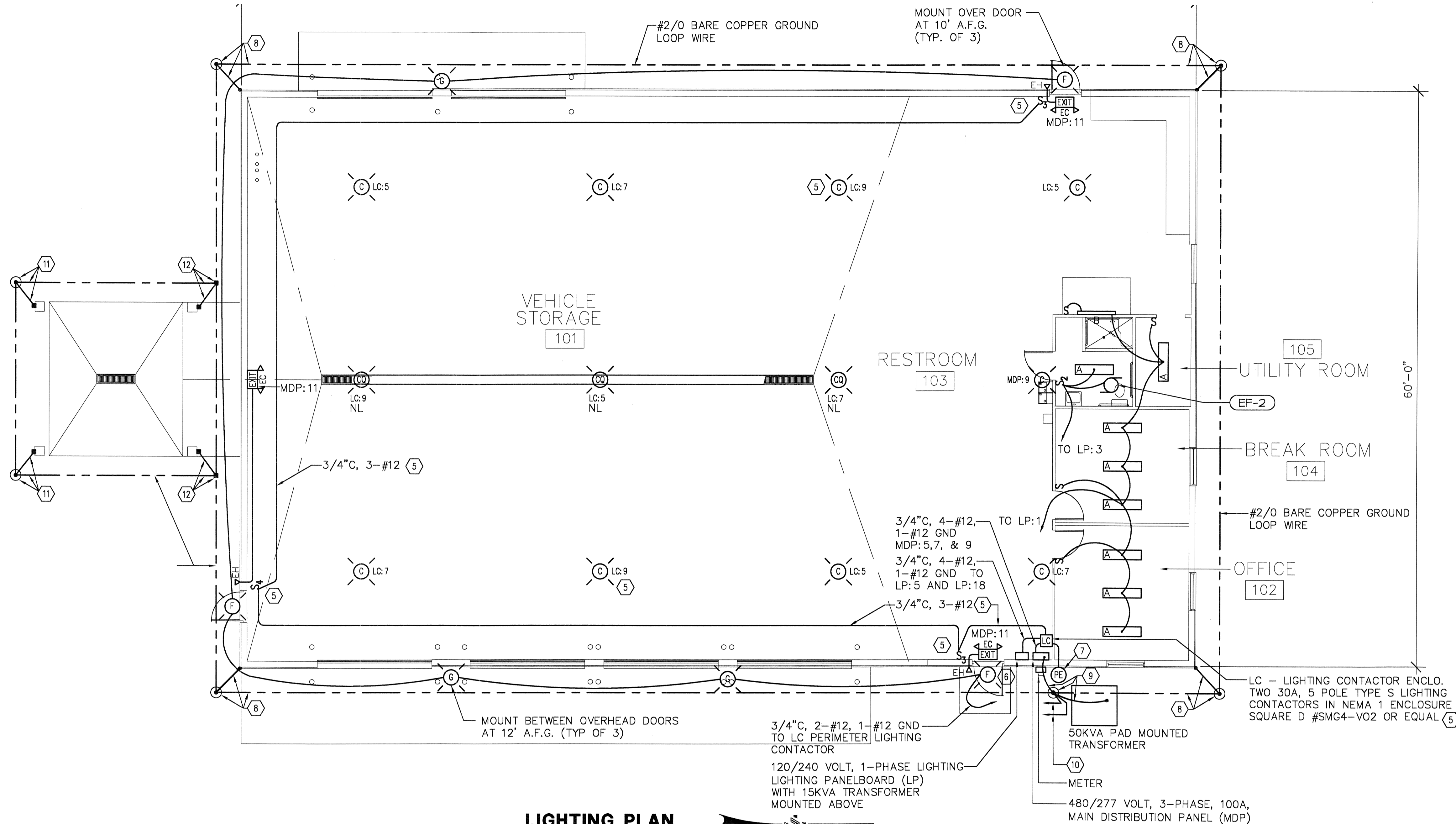
MAINTENANCE BLDG. SCHEDULES AND DIAGRAMS

DRAWN BY / CHECKED BY
G.N.C. / D.L.K.

REVISION

E6
OF
32
JOB NUMBER
1590-120

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LIGHTING PLAN

SCALE 1/8" = 1'-0"

NOTES:

- 1 REFER TO SHEET E1 FOR BASIN AREA AND MAINTENANCE BUILDING SITE PLAN.
- 2 REFER TO SHEET E3 FOR PUMP STATION SINGLE LINE DIAGRAM AND LIGHTING FIXTURE SCHEDULE.
- 3 REFER TO SHEET E6 FOR MAINTENANCE BUILDING SCHEDULES AND DIAGRAMS.
- 4 REFER TO SHEET E8 FOR MAINTANENCE BUILDING POWER PLAN.
- 5 ALL TYPE "C & CQ" FIXTURES TO BE WIRED TO CIRCUITS IN "MDP" VIA LIGHTING CONTACTOR. REFER TO 277 VOLT SWITCHING ARRANGEMENT SHEET E6.
- 6 ALL TYPE "G & F" FIXTURES TO BE WIRED TO CIRCUITS IN "LP" VIA LIGHTING CONTACTOR. REFER TO 120 VOLT SWITCHING ARRANGEMENT SHEET E6.
- 7 MOUNT PHOTOCELL ON 3/4"RGS CONDUIT WITH 2-#12, 1-#12 GND EXTENDING UP THROUGH ROOF FACING NORTH. COORDINATE LOCATION WITH OTHER LIGHT SOURCES TO AVOID CYCLING OF LIGHTS.
- 8 3/4" x 10' COPPERWELD GROUND ROD WITH EXOTHERMIC TYPE WELDED CONNECTION TO #2/0 COPPER GROUND LOOP WIRE AND TO #6 COPPER GROUND WIRE. EXTEND #6 COPPER GROUND WIRE TO METAL SIDING AND EXTEND UP WALL IN 3/4" PVC CONDUIT TO ROOF, BOND TO UNDERSIDE OF METAL ROOF AND TO METAL SIDING.

NOTES CONTINUED:

- 9 3/4" x 10' COPPERWELD GROUND ROD WITH EXOTHERMIC TYPE WELDED CONNECTIONS TO #2/0 BARE COPPER GROUND LOOP WIRE AND TO #4/0 BARE COPPER GROUND WIRES TO MDP AND TO TRANSFORMER GROUND WITH CONNECTIONS AS REQUIRED AT TRANSFORMER GROUND PADS.
- 10 #4 BARE COPPER GROUND WIRE WITH EXOTHERMIC TYPE WELDED CONNECTION GROUND ROD AND TO CONCRETE ENCASED ELECTRODE (FOUNDATION REBAR) AND WATER MAIN PER N.E.C. PER ART. 250.
- 11 3/4" x 10' COPPERWELD GROUND ROD WITH EXOTHERMIC TYPE WELDED CONNECTION TO #2/0 BARE COPPER GROUND LOOP WIRE AND TO #2 BARE COPPER GROUND WIRE WITH EXOTHERMIC TYPE WELDED CONNECTION TO STEEL SUPPORT BEAM EXTEND #6 COPPER GROUND WIRE UP BEAM IN 3/4" PVC CONDUIT TO ROOF, BOND TO UNDERSIDE OF METAL ROOF.
- 12 EXOTHERMIC TYPE WELDED CONNECTION TO #2/0 BARE COPPER GROUND LOOP WIRE AND TO #2 BARE COPPER GROUND WIRE WITH EXOTHERMIC TYPE WELDED CONNECTION TO STEEL SUPPORT BEAM EXTEND #6 COPPER GROUND WIRE UP BEAM IN 3/4" PVC CONDUIT TO ROOF, BOND TO UNDERSIDE OF METAL ROOF.

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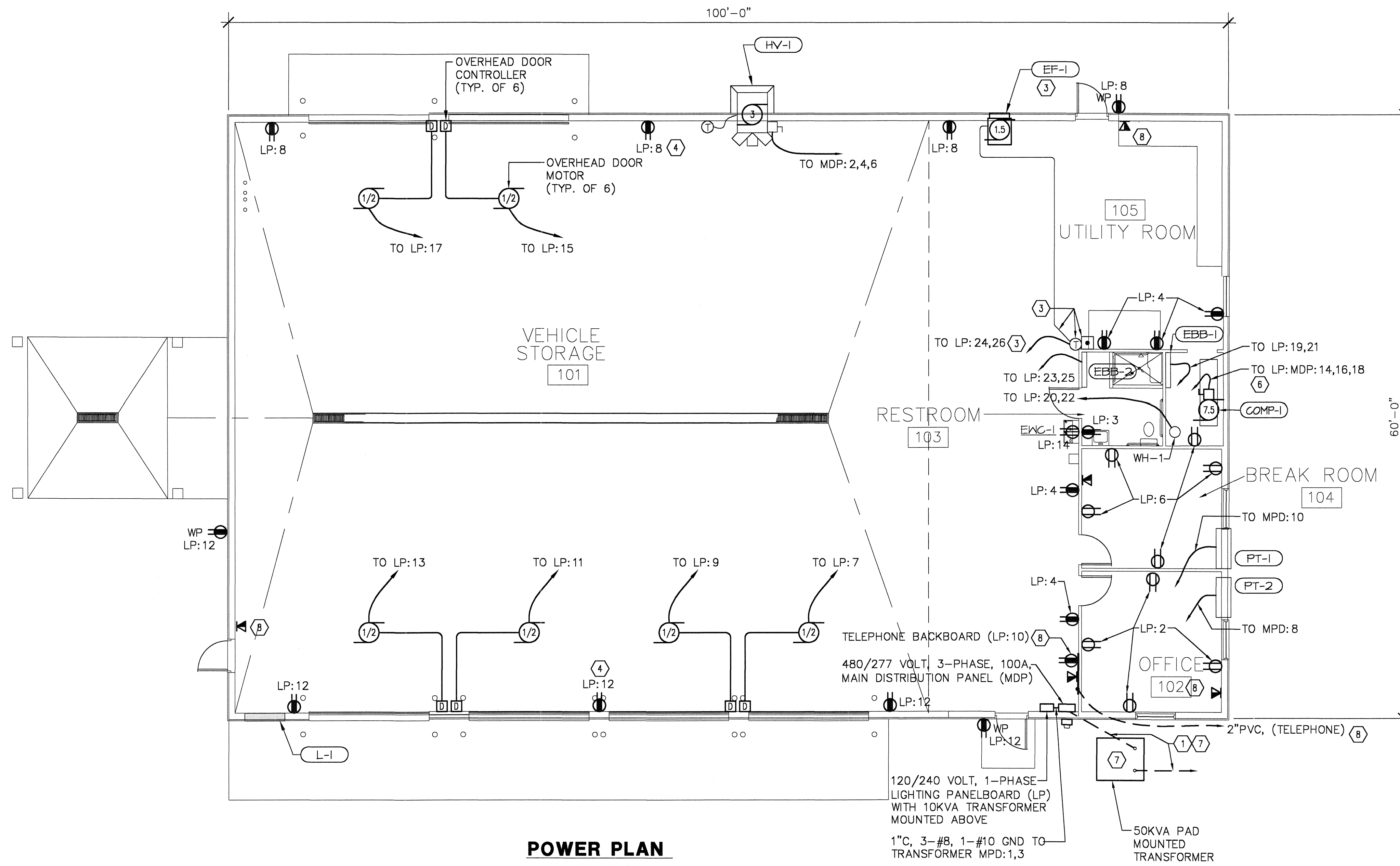
**CSO IMPROVEMENTS
CSO BASIN AND PUMP STATION
VILLAGE OF OAK HARBOR, OHIO**

**MAINTENANCE BLDG.
ELECTRICAL
LIGHTING PLAN**

DRAWN BY	CHECKED BY
REVISION	G.N.C. D.L.K.

E7
OF
32
JOB NUMBER
1590

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POWER PLAN

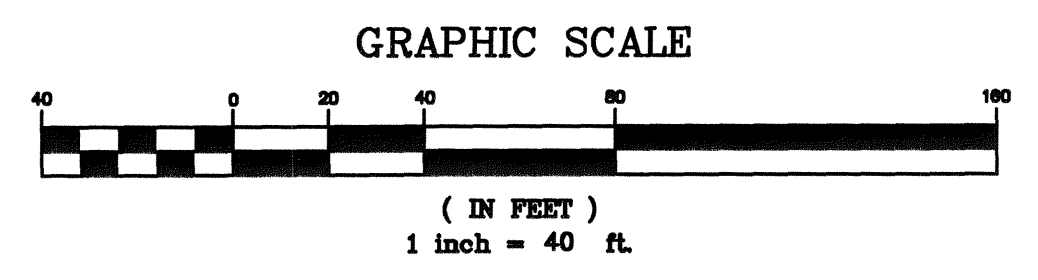
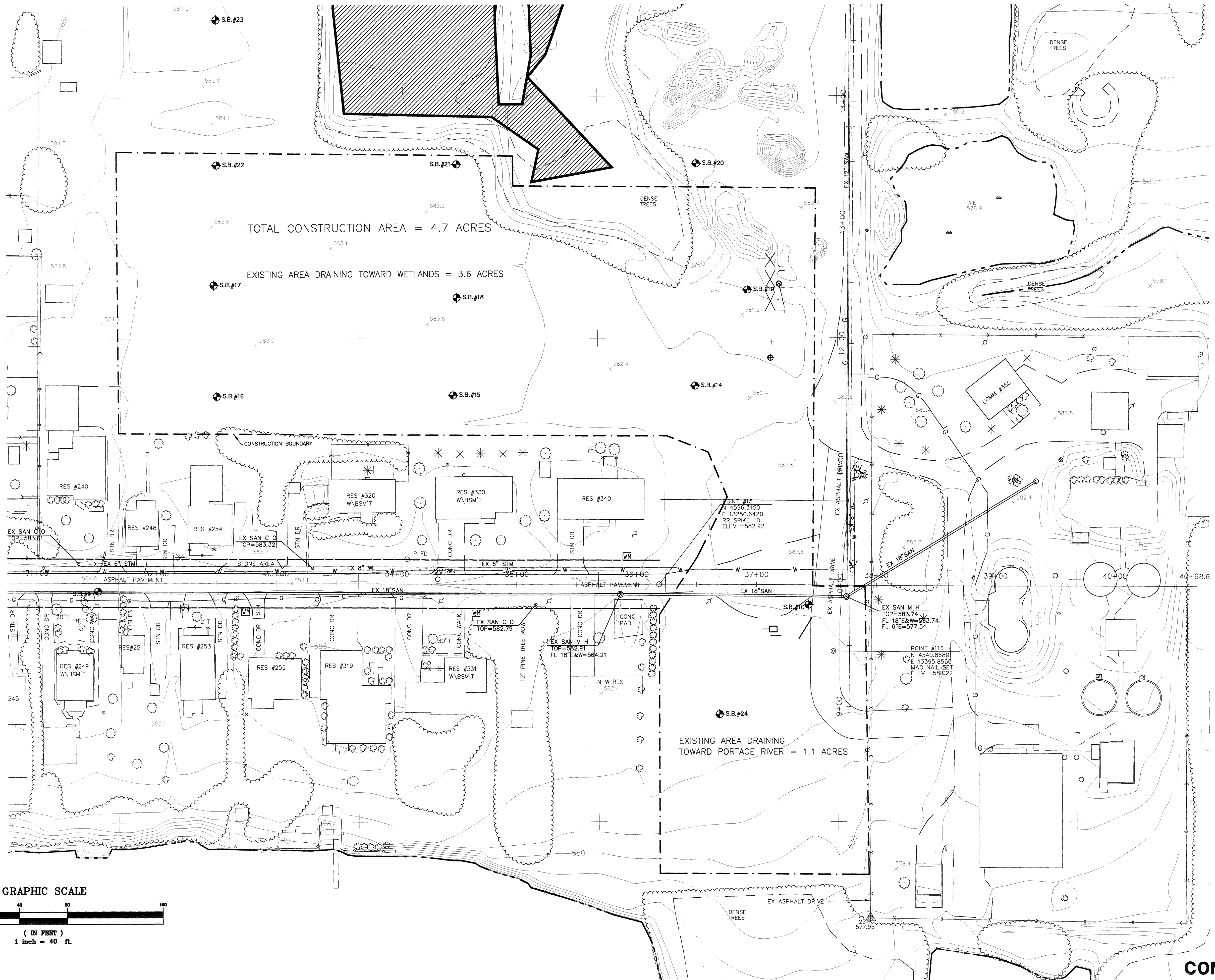
SCALE 1/8" = 1'-0"

- NOTES:**
- 1 REFER TO SHEET E1 FOR BASIN AREA AND MAINTENANCE BUILDING SITE PLAN.
 - 2 REFER TO SHEET E6 FOR MAINTENANCE BUILDING SCHEDULES AND DIAGRAMS.
 - 3 LINE VOLTAGE THERMOSTAT, H-O-A SELECTOR SWITCH AND CONTROL INTERLOCK WIRING TO EF-1 FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL 3/4" C, 2-#12, 1-#12 GND FROM THERMOSTAT TO LP: 24,26.
 - 4 ALL DUPLEX RECEPTACLES IN SHOP TO BE MOUNTED AT 4'-0" A.F.F.
 - 5 ALL ELECTRICAL DEVICES SHALL BE MIN. 18" A.F.F.
 - 6 ELECTRICAL CONTRACTOR TO PROVIDE 480 VOLT AC, CIRCUIT SIZED AS REQUIRED TO MATCH AIR COMPRESSOR BY OWNER. COORDINATE EXACT LOCATION WITH THE OWNER. AIR COMPRESSOR PLACED ON LEVEL ABOVE UTILITY ROOM.
 - 7 CONTRACTOR TO INSTALL SECONDARY SERVICE BETWEEN THE TRANSFORMER AND THE MDP, MAIN DISCONNECT PANEL. THE SECONDARY SERVICE SHALL BE 2" PVC, 4-#3, RHW. INSTALL 2-3" PVC CONDUITS FROM TRANSFORMER PRIMARY TO RISER POLE, STUB AT POLE. INSTALL TRANSFORMER PAD, METER SOCKET, METER CONDUIT AND WIRE AS DIRECTED BY OAK HARBOR UTILITIES AND PER THEIR STANDARDS. PRIMARY CABLES, TRANSFORMER AND METER BY OAK HARBOR UTILITIES. COORDINATE ELECTRICAL SERVICE CONNECTION WITH OAK HARBOR UTILITIES.
 - 8 INSTALL 3/4" x 48" x 48" TELEPHONE BACKBOARD AT LOCATION DIRECTED BY OWNER. INSTALL 2" PVC CONDUIT FROM BACKBOARD TO TELEPHONE SERVICE CONNECTION POINT. FIELD VERIFY LOCATION AND QUANTITY OF TELEPHONE OUTLETS WITH OWNER. COORDINATE TELEPHONE SERVICE CONNECTION TO MAINTENANCE BUILDING WITH LOCAL TELEPHONE PROVIDER.
 - 9 REFER TO SHEET E7 FOR MAINTENANCE BUILDING LIGHTING PLANS.

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DRAWN BY	CHECKED BY
G.N.C.	D.L.K.
REVISION	

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CONTRACT 'A' & 'B'



POGEMEYER DESIGN GROUP, INC.
 ARCHITECTS ENGINEERS PLANNERS
 1168 NORTH MAIN STREET BOWLING GREEN, OHIO 43402
 (419) 352-7537

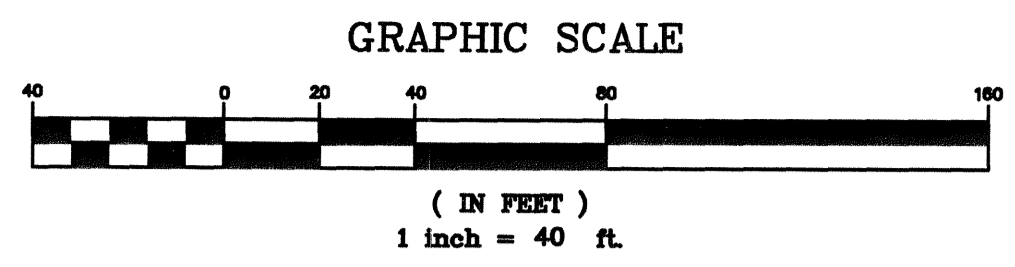
**CSO IMPROVEMENTS
 CSO BASIN AND PUMP STATION
 VILLAGE OF OAK HARBOR,**

**EXISTING
 DRAINAGE
 AREAS**

NO.	REVISION

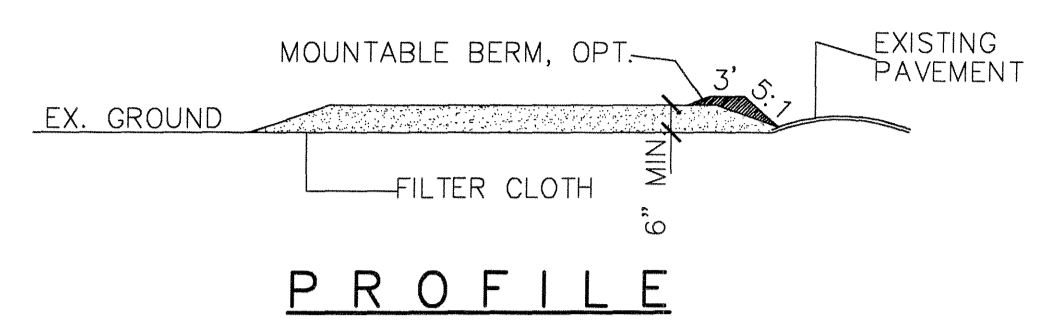
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 OF
3
 JOB NUMBER
 1590-120

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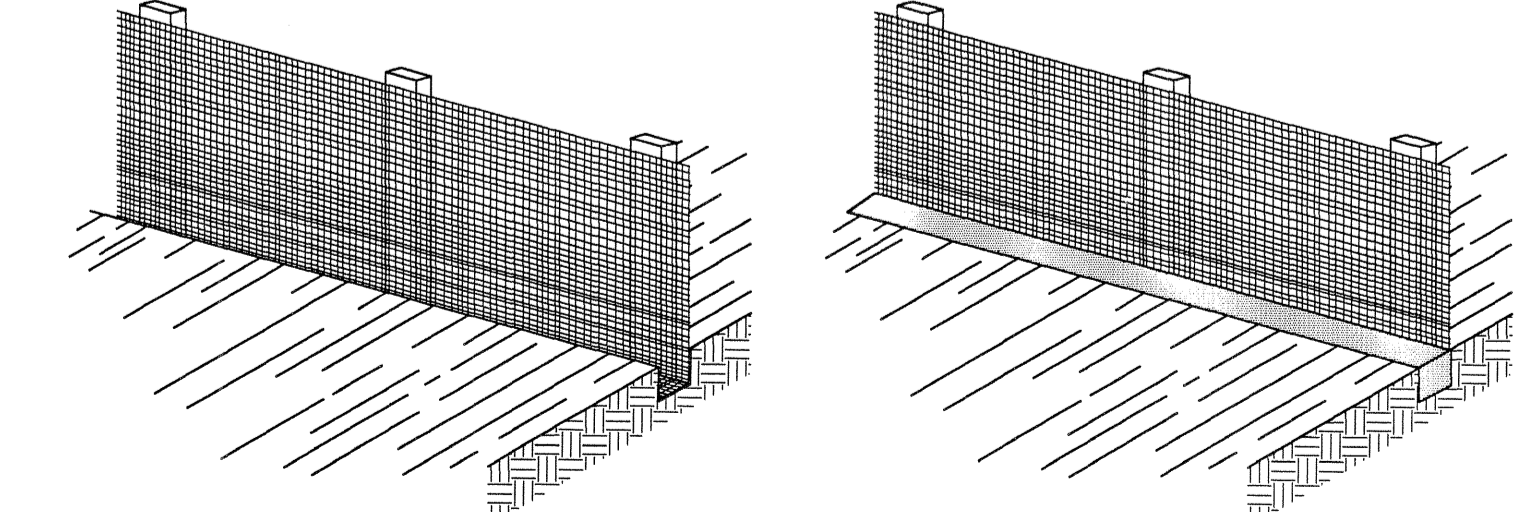
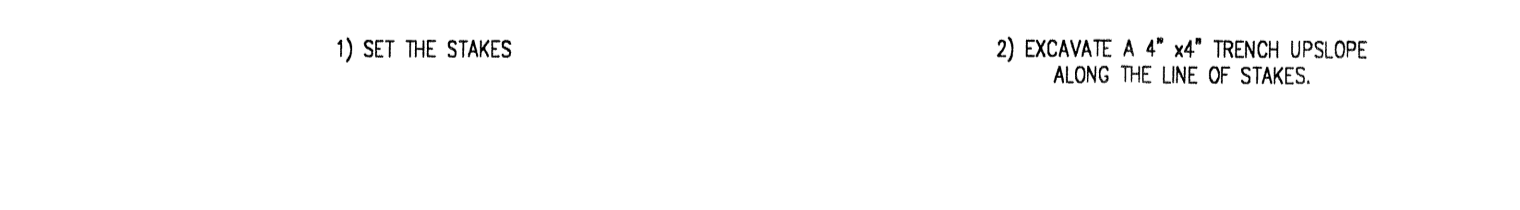
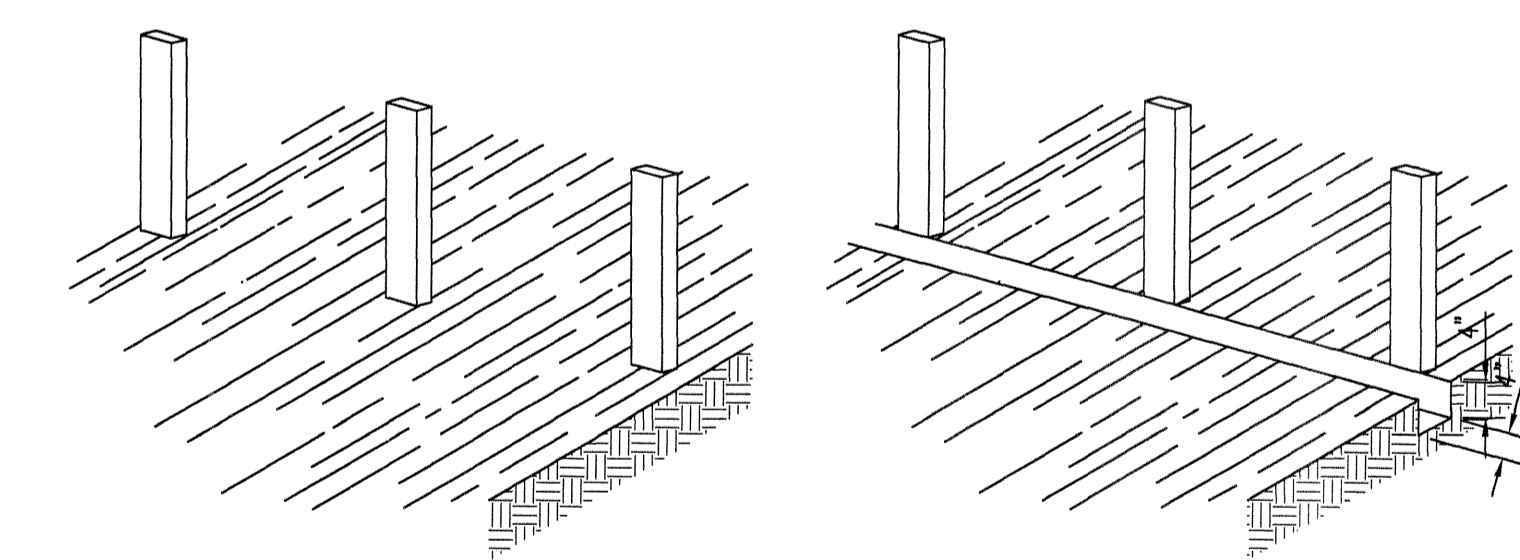
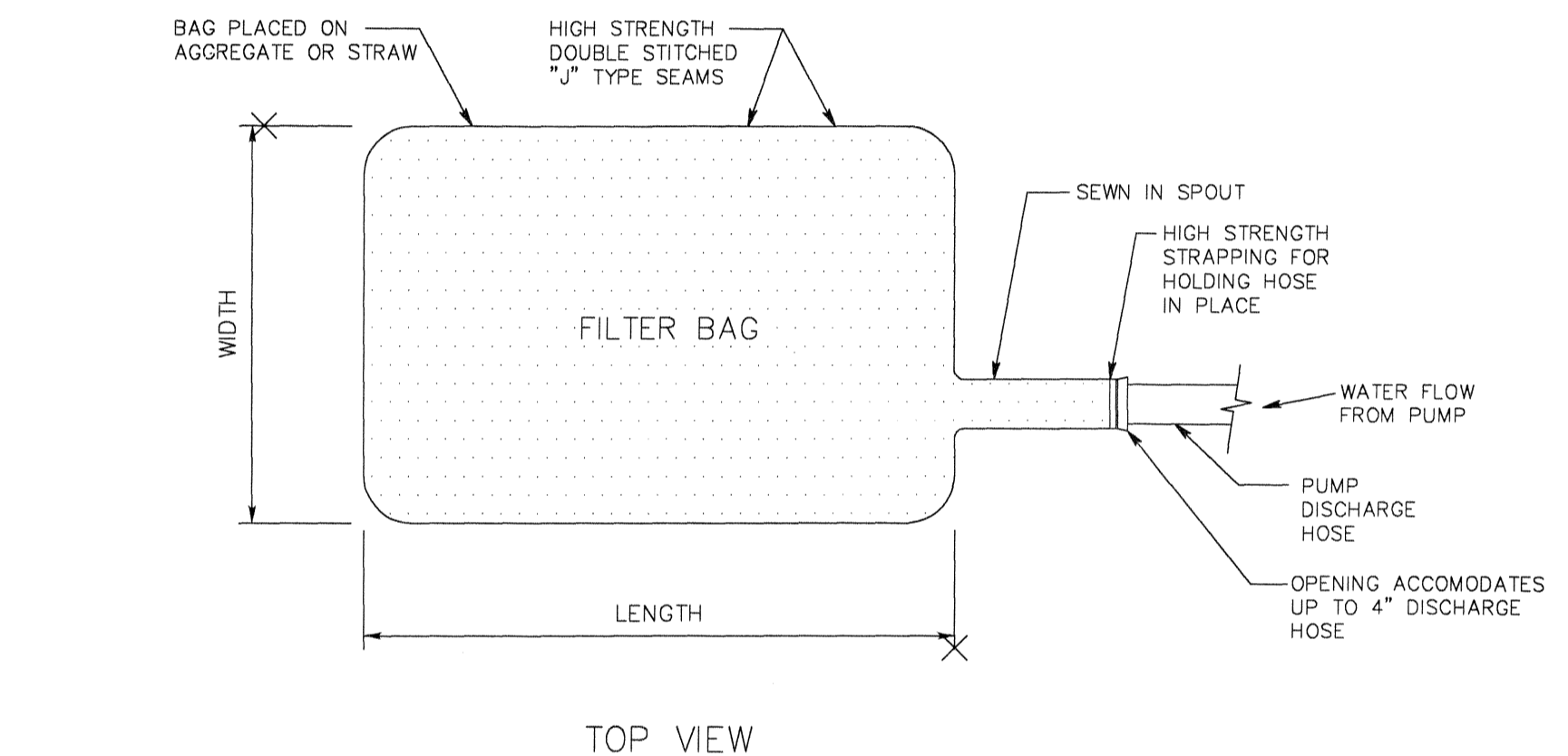
NOTE A:
 INSTALL TEMPORARY SETTING BASIN IN PROPOSED LOW SPOT OF CSO BASIN AT BEGINNING OF WORK. PUMP RAINWATER DURING CONSTRUCTION OUT OF CSO BASIN AFTER A MINIMUM OF 48 HOURS SINCE LAST RAIN EVENT UNLESS WATER IS PUMPED THROUGH A FILTER BAG. THE FILTER BAGS MUST BE SIZED TO HANDLE THE DISCHARGE FROM THE PUMP. THE INTAKE FOR PUMPING OPERATIONS SHALL BE PLACED SO AS TO DRAW WATER FROM THE TOP OF THE WATER SURFACE UTILIZING A FLOAT OR OTHER ACCEPTABLE METHOD.

- LEGEND**
- ⊙ PERMANENT SEEDING
 - ⊙ PERVIOUS PAVEMENT (STONE)
 - ⊙ CONSTRUCTION ENTRANCE
 - x- SILT FENCE

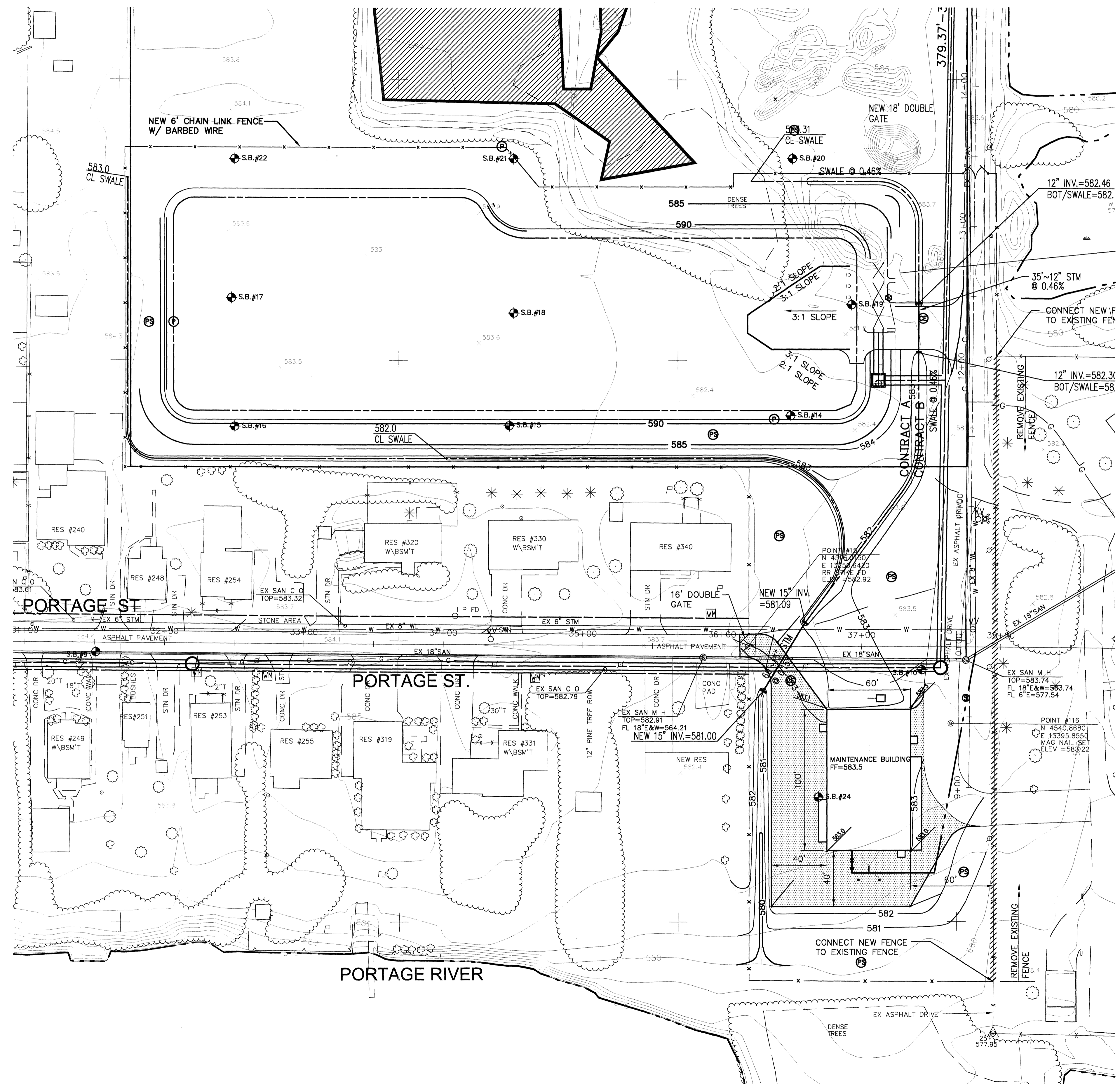


- CONSTRUCTION SPECIFICATIONS:**
- STONE SIZE--USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 - LENGTH--AS REQUIRED.
 - THICKNESS--NOT LESS THAN SIX (6) INCHES.
 - WIDTH--TWENTY (20) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
 - FILTER CLOTH--WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
 - SURFACE WATER--ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
 - MAINTENANCE--THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.
 - WASHING--WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAYS. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING SERVICE.
 - PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED ONCE EVERY 7 DAYS.

STABILIZED CONSTRUCTION ENTRANCE



CONSTRUCTION OF A FILTER BARRIER
 SCALE: NONE



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 ARCHITECTS ENGINEERS PLANNERS
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 BOWLING GREEN, OHIO 43402
 (419) 352-7537

**CSO IMPROVEMENTS
 CSO BASIN AND PUMP STATION
 VILLAGE OF OAK HARBOR,**

**SWPPP
 PLAN**

DRAWN BY: SPJ
 CHECKED BY: JMF

SWP3-2
 OF
3
 JOB NUMBER
 1590-120

CONTRACT 'A' & 'B'

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STORM WATER POLLUTION PREVENTION PLAN (SWPPP)
FOR
CSO IMPROVEMENTS
CSO BASIN AND PUMP STATION
PORTAGE STREET
OAK HARBOR, OTTAWA COUNTY, OHIO
NOVEMBER 2006

CONSTRUCTION SITE STORM WATER MANAGEMENT REQUIREMENTS

INTRODUCTION
ALL STORM WATER POLLUTION PREVENTION PROVISIONS PROVIDED WITH THESE CONSTRUCTION DRAWINGS REFLECT THE OHIO EPA REQUIREMENTS FOR CONSTRUCTION STORM WATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL. TO ENSURE COMPLIANCE, THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE OHIO EPA NPDES GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY (OH000002). THIS PLAN PROVIDES FOR CONSTRUCTION STORM WATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL FOR THE EXTENT OF CONSTRUCTION AS DEFINED IN PROJECT DESCRIPTION BELOW.

THE CONTRACTOR SHALL OR SHALL CAUSE THE INSTALLATION AND MAINTENANCE TO OCCUR IN CONFORMANCE WITH THE REQUIREMENTS OF THIS PLAN AND ALL REGULATIONS ENFORCED BY THE OHIO EPA AND ITS AGENTS. THE CONTRACTOR HEREBY ACKNOWLEDGES THAT HE HAS REVIEWED THE PLAN AND UNDERSTANDS THE REQUIREMENTS OF THE NPDES PERMIT FOR THIS PROJECT. FURTHER, THE CONTRACTOR UNDERSTANDS HIS RESPONSIBILITY TO INSTALL AND MAINTAIN THE APPROPRIATE MEASURES TO MINIMIZE POLLUTION AND THAT FAILURE TO DO SO COULD RESULT IN STOP WORK ORDERS, FINES, AND IMPRISONMENT. PRIOR TO STARTING ANY WORK AT THE SITE, THE CONTRACTOR SHALL SUBMIT HIS CONSTRUCTION SCHEDULE AND THE RELATED EROSION METHODS FOR REVIEW BY THE ENGINEER.

PROJECT DESCRIPTION
THE PROJECT CONSISTS OF THE DEVELOPMENT OF A 6000 S.F. MAINTENANCE BUILDING ALONG WITH A 1.5 ACRE CSO BASIN AND RELATED SITE IMPROVEMENTS, LOCATED ALONG THE NORTH AND SOUTH SIDES OF PORTAGE STREET APPROXIMATELY 800' EAST OF MAPLE STREET. THE SITE WILL DISTURB APPROXIMATELY 4.7 ACRES OF VACANT LAND.

SOIL DISTURBING ACTIVITIES WILL INCLUDE: CLEARING AND GRUBBING; INSTALLING STABILIZED CONSTRUCTION ENTRANCES, PERIMETER AND OTHER EROSION/SEDIMENT CONTROL; EXCAVATION OF THE CSO BASIN; EXCAVATION OF THE VEGETATED SWALE; SITE GRADING, EXCAVATION FOR THE UNDERGROUND UTILITIES, AND BUILDING FOUNDATIONS; CONSTRUCTION OF DRIVEWAYS AND PARKING LOTS; AND PREPARATION FOR FINAL PLANTING AND SEEDING.

PROJECT DRAINAGE
DRAINAGE FROM THE DEVELOPMENT PRIOR TO CONSTRUCTION PRIMARILY SHEET DRAINS INTO THE WETLANDS LOCATED NORTH OF THE SITE, AND THE PORTAGE RIVER, LOCATED SOUTH OF THE SITE. AFTER CONSTRUCTION, MOST OF THE STORM WATER WILL DISCHARGE INTO THE PORTAGE RIVER APPROXIMATELY 200' SOUTH OF THE SITE. MOST OF THE RUNOFF FROM THE DEVELOPED SITE WILL DRAIN TO A VEGETATED SWALE WHICH WILL SURROUND THE CSO BASIN. PRIOR TO DISCHARGING INTO THE PORTAGE RIVER, THE REMAINING STORM WATER NEAR THE MAINTENANCE BUILDING WILL BE DIRECTED OVER A GRASS FILTER STRIP.

THE VEGETATED SWALE AND GRASS FILTER STRIP WILL PROVIDE THE CONSTRUCTION SEDIMENTATION VOLUME AND POST-CONSTRUCTION WATER QUALITY VOLUME FOR THE DEVELOPMENT. THE COEFFICIENT OF RUNOFF FOR THE PARCEL PRIOR TO DEVELOPMENT IS ESTIMATED TO BE 0.10. THE COEFFICIENT OF RUNOFF FOR THE PARCEL AFTER DEVELOPMENT IS ESTIMATED TO BE 0.32 BASED ON A WEIGHTED AVERAGE OF 0.36 ACRES OF OPEN - RECREATIONAL USE AT 0.2 FOR THE CSO BASIN AND 0.93 ACRES OF COMMERCIAL USE AT 0.8 FOR THE MAINTENANCE BUILDING.

PROJECT SOILS AND DISCHARGE
A GEOTECHNICAL/SUBSURFACE INVESTIGATION WAS PERFORMED BY MATERIALS TESTING, INC. IN JUNE 2006 AND SHALL BE CONSIDERED PART OF THIS PLAN. ANTICIPATED QUALITY OF DISCHARGE FROM THE SITE DURING CONSTRUCTION SHOULD NOT BE SIGNIFICANTLY DIFFERENT FROM THAT EXPERIENCED FROM PREVIOUS AGRICULTURAL ACTIVITIES WHICH OCCURRED ON THE SITE, SUCH AS PLOWING, DISING, AND OTHER FIELD PREPARATION ACTIVITIES.

CONSTRUCTION SEQUENCE OF MAJOR TASKS AND EROSION CONTROL MEASURES
THE ORDER OF ACTIVITIES FOR EACH PLAN CONSTRUCTION WILL BE AS FOLLOWS:

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE AND CONSTRUCTION STAGING AREA. ENTRANCE SHALL BE A MINIMUM OF 50' LONG X 10' WIDE X 6" THICK OF 2" STONE
2. INSTALL SILT FENCE WHERE INDICATED AND WHERE REQUIRED.
3. CLEAR AND GRUB SITE.
4. STRIP AND STOCKPILE TOPSOIL, SEED AND MULCH THE STOCKPILES AS PORTIONS REACH FINAL GRADE.
5. CONSTRUCT NEW STORM SWALE AND OUTLET PIPING.
6. EXCAVATE AND PLACE EMBANKMENT AROUND THE CSO BASIN AND CONSTRUCT THE SEDIMENT BASIN WITHIN THE BASIN.
7. INSTALL UNDERGROUND UTILITIES. CONSTRUCT INLET PROTECTION AROUND ALL STORM SEWER INLETS.
8. CONSTRUCT PARKING LOTS AND DRIVEWAYS.
9. CONSTRUCT BUILDING.
10. COMPLETE FINAL GRADING AND INSTALL PERMANENT SEEDING AND PLANTINGS.
11. MAINTAIN NECESSARY EROSION AND SEDIMENT CONTROLS AND VEGETATIVE MATERIAL UNTIL 70% OF AREA IS COVERED WITH AN EVENLY DISTRIBUTED GOOD GROWTH OF PERENNIAL VEGETATION.
12. REMOVE ALL TEMPORARY EROSION CONTROL DEVICES AND REMOVE ACCUMULATED SEDIMENT FROM STORM WATER MANAGEMENT AREAS.
13. RESEED AREAS DISTURBED BY REMOVAL ACTIVITIES.
14. CLEAN DITCHES/SWALES, CULVERTS, AND STORM SEWER SYSTEMS OF ALL ACCUMULATED SEDIMENT.

ENVIRONMENTAL MITIGATION

EROSION AND SEDIMENTATION CONTROL

1. EROSION AND SEDIMENTATION CONTROL PRACTICES SHALL BE INSTALLED TO NATURAL RESOURCES CONSERVATION SERVICE OR EQUIVALENT STANDARDS AND SPECIFICATIONS. THE PRACTICES ARE TO BE MAINTAINED IN EFFECTIVE WORKING CONDITION DURING CONSTRUCTION AND UNTIL ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
2. CLEARING AND GRUBBING SHALL NOT COMMENCE UNTIL THE CONTRACTOR IS PREPARED TO START CONSTRUCTION.
3. SEDIMENT BASINS AND DIVERSION DIKES SHALL BE CONSTRUCTED BEFORE DISTURBING THE LAND THAT DRAINS INTO THEM.
4. DIVERSION CHANNELS SHALL BE CONSTRUCTED AROUND THE CONSTRUCTION SITE TO COLLECT RUNOFF AND PREVENT SILT AND OTHER ERODED MATERIALS FROM ENTERING LOCAL DRAINAGE COURSES. DIVERSION CHANNELS SHALL BE STABILIZED BY SEEDING OR RIP-RAP OR LINED WITH PLASTIC, AND FLOW TO TEMPORARY SILT BASINS.
5. EXISTING TOPSOIL THAT IS TO BE REUSED SHALL BE STOCKPILED AND REPLACED UPON FINAL GRADING. STOCKPILED TOPSOIL SHALL BE PROTECTED WITH SILT BARRIERS AND TEMPORARY SEEDING OR A COVERING SUCH AS ANCHORED STRAW MULCH.
6. EXCESS SOIL THAT IS EITHER REMOVED OR PERMANENTLY STABILIZED WITHIN 15 DAYS OF THE COMPLETION OF CONSTRUCTION.
7. EXCAVATED MATERIALS SHALL BE STOCKPILED ON THE UPHILL SIDE OF TRENCHES.
8. ONLY THOSE TREES, SHRUBS, AND GRASSES THAT MUST BE REMOVED FOR CONSTRUCTION MAY BE REMOVED; PROTECT THE REST TO PRESERVE THEIR AESTHETIC, HABITAT, AND EROSION CONTROL VALUES.
9. DISTURBED LAND EXPOSED LONGER THAN 7 DAYS SHALL BE TEMPORARILY STABILIZED BY SEEDING AND MULCHING OR MULCHING ALONE.
10. AS CONSTRUCTION IS COMPLETED, PERMANENTLY STABILIZE EACH DISTURBED AREA WITH PERENNIAL VEGETATION. IF FINAL GRADING AND SEEDING WILL NOT OCCUR WITHIN 30 DAYS, ALL DISTURBED AREAS SHALL BE TEMPORARILY SEEDED AND/OR MULCHED IMMEDIATELY.
11. FINAL GRADING SHALL BE CONSISTENT WITH PRE-CONSTRUCTION TOPOGRAPHY TO MAINTAIN DRAINAGE AND AESTHETICS.
12. NO MORE THAN 200 FEET OF TRENCH SHALL BE OPEN AT ANY TIME. MINIMIZE THE AREA DISTURBED FOR TRENCH OPENING, LAYING OF PIPE, AND BACKFILLING.
13. TRENCHES SHALL BE BACKFILLED IMMEDIATELY, COMPACT AND SEED AND/OR MULCH TRENCHES IN UNPAVED AREAS WITHIN 15 DAYS AFTER THEY HAVE BEEN OPENED.
14. LARGE-SCALE CONSTRUCTION SHALL BE RESEDED IN STAGES TO PREVENT EROSION WHEN SEASONAL CONDITIONS PERMIT. WITHIN 15 DAYS AFTER A SPAN HAS BEEN COMPLETED, THE CONTRACTOR SHALL PLACE ALL TOPSOIL, FINE GRADE, SEED, FERTILIZER, AND MULCH ALL AREAS DISTURBED BY ACTIVITIES ASSOCIATED WITH THE CONSTRUCTION OF THAT SECTION OF PIPE.
15. SLOPES EXCEEDING 15 PERCENT OR TENDING TO BE UNSTABLE SHALL BE STABILIZED WITH WATER DIVERSION BERMS, SODDING, OR THE USE OF JUTE OR EXCELSOR BLANKETS.
16. WHEN BORROW MATERIAL IS OBTAINED FROM OTHER THAN COMMERCIAL SOURCES, CONTROL EROSION OF THE BORROW SITE DURING AND AFTER THE WORK TO PREVENT SEDIMENT FROM ENTERING STREAMS OR OTHER WATER BODIES. WASTE OR DISPOSAL AREAS AND CONSTRUCTION ROADS SHALL BE LOCATED AND CONSTRUCTED IN A MANNER THAT SHALL KEEP SEDIMENT FROM ENTERING STREAMS.
17. UNPAVED AREAS SHALL BE WET DOWN AS NECESSARY USING WATER OR OTHER ENVIRONMENTALLY BENIGN SUBSTANCE DURING CONSTRUCTION TO MINIMIZE DUST.
18. IF WORK IS SUSPENDED FOR ANY REASON, THE CONTRACTOR SHALL MAINTAIN THE SOIL EROSION AND SEDIMENTATION CONTROLS IN GOOD OPERATING CONDITION DURING THE SUSPENSION OF THE WORK. ALSO, WHEN SEASONAL CONDITIONS PERMIT AND THE SUSPENSION OF WORK IS EXPECTED TO EXCEED A PERIOD OF ONE MONTH, THE CONTRACTOR SHALL PLACE TOPSOIL, FINE GRADE, SEED, FERTILIZER, AND MULCH ALL DISTURBED AREAS LEFT EXPOSED WHEN WORK IS STOPPED.
19. WHEN WORKING ADJACENT TO A WATERWAY, THE CONTRACTOR SHALL INSTALL SILT BARRIERS TO PREVENT SEDIMENT-LADEN RUNOFF FROM ENTERING THE WATERWAY.
20. MATERIAL EXCAVATED FROM BORING PITS (FOR JACK AND BORE LOCATIONS) SHALL BE SURROUNDED WITH SILT BARRIERS AT SUFFICIENT DISTANCE TO ENSURE THEIR INTEGRITY AND EFFECTIVENESS.
21. CONTRACTOR SHALL REMOVE DAILY ALL MUD, SOIL, AND DEBRIS THAT MAY BE TRACKED ONTO EXISTING STREETS, DRIVES, OR WALKS BY HIS EQUIPMENT OR THAT OF SUBCONTRACTORS OR SUPPLIERS.
22. ALL MATERIALS TO BE DISPOSED OF OFF-SITE MUST BE DISPOSED OF IN AN ENVIRONMENTALLY SOUND MANNER IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. NO EXCESS MATERIALS ARE TO BE DISPOSED OF IN ANY WETLAND, FLOOD PLAIN, OR OTHER ENVIRONMENTALLY SENSITIVE AREAS. EROSION CONTROL MEASURES AT THE DISPOSAL SITE MUST BE INSTALLED AND MAINTAINED UNTIL DISPOSAL IS COMPLETE AND THE DISPOSAL SITE IS PERMANENTLY STABILIZED.

TRAFFIC CONTROL

1. ONE LANE OF TRAFFIC SHALL BE MAINTAINED ALONG THE TRAVEL ROUTE TO THE CONSTRUCTION SITE IF POSSIBLE. IF NOT POSSIBLE TO MAINTAIN TRAFFIC DURING CONSTRUCTION, DETOURS SHALL BE ARRANGED WITH STATE AND LOCAL AUTHORITIES, AS REQUIRED.
2. LOCAL ACCESS SHALL BE MAINTAINED AT ALL TIMES.
3. NO TRENCH SHALL BE LEFT OPEN AT THE END OF THE WORK DAY.
4. THE CONTRACTOR SHALL PROVIDE, ERECT, AND MAINTAIN ALL NECESSARY BARRICADES, WARNING SIGNS, DANGER SIGNALS, FLAGGERS, WATCHERS, AND ALL OTHER APPROPRIATE PRECAUTIONS NECESSARY TO THE PROTECTION OF THE WORK AND FOR SAFETY OF THE PUBLIC.

AIR POLLUTION/NOISE CONTROL

1. CONSTRUCTION SHALL BE LIMITED TO DAYTIME HOURS, MONDAY THROUGH FRIDAY.
 2. CONSTRUCTION EQUIPMENT SHALL BE PROVIDED WITH INTAKE SILENCERS AND MUFFLERS.
 3. ALL CONSTRUCTION VEHICLES SHALL BE EQUIPPED WITH PROPER EMISSIONS CONTROL EQUIPMENT.
 4. ALL EQUIPMENT AND MACHINERY SHALL BE MAINTAINED TO MINIMIZE EXHAUST EMISSIONS AND NOISE.
- TREES/VEGETATION PROTECTION
1. TREE REMOVAL SHALL BE LIMITED TO THAT NECESSARY FOR CONSTRUCTION.
 2. NO TREE SHALL BE REMOVED WITHOUT PERMISSION OF THE OWNER OR ENGINEER.
 3. TREES WHICH ARE NOT TO BE REMOVED SHALL BE PROTECTED FROM INJURY BY TREES BEING FELLED.
 4. FUEL AND OTHER MATERIAL SHALL NOT BE STORED NEXT TO OR WITHIN THE DRIP-LINE OF TREES.
 5. LANDSCAPING SHALL BE PRESERVED IF POSSIBLE. DAMAGED VEGETATION SHALL BE REPLACED "IN-KIND".
 6. THE CONTRACTOR SHALL REPAIR ALL INJURIES TO BARK, TRUNKS, LIMBS, AND ROOTS OF REMAINING VEGETATION BY PROPERLY DRESSING, CUTTING, AND BRACING, USING ONLY APPROVED TREE SURGERY METHODS, TOOLS, AND MATERIALS. WHEN ROOTS ARE DAMAGED DURING EXCAVATION, THE ABOVE-GROUND PORTION OF THE TREE SHALL BE PRUNED TO COMPENSATE.
 7. SELECTIVE PRUNING OF TREE LIMBS PRIOR TO CONSTRUCTION SHALL ONLY BE DONE WITHIN ESTABLISHED EASEMENTS WHERE REMOVAL IS NECESSARY FOR OPERATION OF EQUIPMENT.
 8. ALL PRUNING SHALL BE DONE BY A QUALIFIED ARBORIST.
- DEWATERING
1. ALL DEWATERING FLOWS SHALL BE SETTLED IN SILTATION BASINS OR DIRECTED THROUGH FILTERING DEVICES BEFORE DISCHARGE TO STABILIZED SITES, SUCH AS STREAMS OR STORM SEWERS, NOT ONTO EXPOSED SOILS, STREAM BANKS, OR ANY OTHER SITE WHERE THE FLOW COULD CAUSE EROSION.
 2. SILT FROM CONSTRUCTION SITES SHALL NOT BE PERMITTED TO ENTER STORM SEWERS. WHEN CONSTRUCTION OCCURS NEAR STORM SEWER INLETS, INLET FILTERS SHALL BE USED TO PREVENT SILT FROM ENTERING THE STORM SEWERS.
 3. ALL WATER SHALL BE CONVEYED FROM THE CONSTRUCTION SITE IN A CLOSED CONDUIT. DO NOT USE TRENCH EXCAVATIONS AS TEMPORARY DRAINAGE DITCHES.

PROHIBITED CONSTRUCTION ACTIVITIES

1. DISPOSING OF EXCESS OR UNSUITABLE EXCAVATED MATERIAL OR TREES, BRUSH, AND OTHER DEBRIS IN ANY STREAM CORRIDOR, ANY WETLANDS, ANY SURFACE WATERS, OR AT UNSPECIFIED LOCATIONS.
2. STOCKPIILING MATERIALS OR STORING CONSTRUCTION EQUIPMENT AND VEHICLES ON PROPERTY NOT SPECIFIED ON THE PLANS BY THE ENGINEER FOR SUCH PURPOSES.
3. INDISCRIMINATE, ARBITRARY, OR CAPRICIOUS OPERATION OF EQUIPMENT IN ANY STREAM CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS, OR OUTSIDE THE EASEMENT LIMITS.
4. PUMPING OF SEDIMENT-LADEN WATER FROM TRENCHES OR OTHER EXCAVATIONS DIRECTLY INTO ANY SURFACE WATERS, ANY STREAM CORRIDORS, ANY WETLANDS, OR STORM SEWERS; ALL SUCH WATER SHALL BE PROPERLY FILTERED OR SETTLED TO REMOVE SILT PRIOR TO RELEASE.
5. DISCHARGING POLLUTANTS SUCH AS CHEMICALS, FUELS, LUBRICANTS, BITUMINOUS MATERIALS, RAW SEWAGE, OR OTHER HARMFUL WASTE INTO OR ALONGSIDE OF RIVERS, STREAMS, IMPOUNDMENTS, OR INTO ANY NATURAL OR MAN-MADE CHANNELS.
6. PERMANENT OR UNSPECIFIED ALTERATION OF THE FLOW LINE OF ANY STREAM.
7. DAMAGING VEGETATION OUTSIDE OF THE CONSTRUCTION AREA.
8. OPEN BURNING OF PROJECT DEBRIS WITHOUT A PERMIT.
9. DISCHARGING INJURIOUS SILICA DUST CONCENTRATIONS INTO THE ATMOSPHERE RESULTING FROM BREAKING, CUTTING, CHIPPING, DRILLING, BUFFING, GRINDING, POLISHING, SHAPING OR SURFACING CLOSER THAN 200 FEET TO PLACES OF RESIDENCES OR COMMERCIAL, PROFESSIONAL, QUASI-PUBLIC, OR PUBLIC PLACES OF HUMAN OCCUPATION.
10. RUNNING WELL POINT OR PUMP DISCHARGE LINES THROUGH PRIVATE PROPERTY OR PUBLIC PROPERTY AND RIGHTS-OF-WAY WITHOUT THE WRITTEN PERMISSION OF THE PROPERTY OWNER AND THE CONSENT OF THE ENGINEER.
11. OPERATIONS ENTAILING THE USE OF VIBRATORY HAMMERS OR COMPACTORS OUTSIDE THE HOURS OF 8:00 A.M. TO 5:00 P.M. WEEKDAYS OR OUTSIDE THE HOURS ALLOWED FOR CONSTRUCTION BY LOCAL ORDINANCES OR REGULATIONS.
12. CLOSING OFF CLEAR ACCESS TO ANY PUBLIC ALLEY, STREET, ROAD, AVENUE, OR BOULEVARD WITHOUT THE PRIOR CONSENT OF THE OWNER, ENGINEER, AND OTHER GOVERNING AUTHORITIES.
13. RESTRICTING ACCESS TO ANY PRIVATE DRIVE OR BUSINESS WHERE ALTERNATE ACCESS IS NOT AVAILABLE.

EROSION AND SEDIMENT CONTROLS

STABILIZATION PRACTICES

THE CONTRACTOR SHALL INITIATE APPROPRIATE VEGETATIVE PRACTICES ON ALL DISTURBED AREAS (INCLUDING TOPSOIL STOCKPILES) NOT WITHIN 50 FEET OF A STREAM OR DITCH WITHIN SEVEN (7) DAYS IF THEY ARE TO REMAIN DORMANT (UNDISTURBED) FOR MORE THAN 21 DAYS. FOR AREAS WITHIN 50 FEET OF ANY STREAM OR DITCH, SOIL STABILIZATION PRACTICES SHALL BE INITIATED WITHIN TWO (2) DAYS ON ALL DISTURBED AREAS IF THEY ARE TO REMAIN DORMANT (UNDISTURBED) FOR MORE THAN 21 DAYS. PERMANENT SOIL STABILIZATION SHALL BE APPLIED TO DISTURBED AREAS NOT WITHIN 50 FEET OF A STREAM OR DITCH WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED AND WITHIN 2 DAYS FOR AREAS LESS THAN 50 FEET FROM A STREAM OR DITCH, ON ANY PORTION OF THE SITE, WHEN SEASONAL CONDITIONS PROHIBIT THE APPLICATION OF TEMPORARY OR PERMANENT SEEDING, NON-VEGETATIVE SOIL STABILIZATION PRACTICES SUCH AS MULCHING AND MATTING WILL BE USED.

SEEDING-

THE TEMPORARY SEED MIX SHALL BE 100% ANNUAL RYEGRASS (LOLIUM MULTIFLORUM) APPLIED AT THE RATE OF TWO (2) POUNDS PER 1,000 SQUARE FEET. PRIOR TO SEEDING, TEN (10) POUNDS OF 12-12-12 FERTILIZER SHALL BE APPLIED TO EACH 1,000 SQUARE FEET TO BE STABILIZED. AFTER SEEDING, EACH AREA SHALL BE MULCHED WITH STRAW AT A RATE OF TWO (2) TONS PER ACRE OR THREE (3) TONS PER ACRE IF SEEDING OCCURS BETWEEN OCTOBER 31 AND MARCH 14.

THE PERMANENT SEED MIX SHALL CONSIST OF 40% KENTUCKY BLUEGRASS (POA PRATENSIS), 40% CREEPING RED FESCUE (FESTUCA RUBRA), AND 20% ANNUAL RYEGRASS (LOLIUM MULTIFLORUM). THIS MIX SHALL BE APPLIED AT THE RATE OF THREE (3) POUNDS PER 1,000 SQUARE FEET. PRIOR TO SEEDING, TWENTY (20) POUNDS OF 12-12-12 FERTILIZER SHALL BE APPLIED TO EACH 1,000 SQUARE FEET TO BE STABILIZED. AFTER SEEDING, EACH AREA SHALL BE MULCHED WITH STRAW AT A RATE OF TWO (2) TONS PER ACRE, THREE (3) TONS PER ACRE IF SEEDING OCCURS BETWEEN OCTOBER 31 AND MARCH 14.

SODDING-

THE SOD SHALL BE WELL-ROOTED KENTUCKY BLUEGRASS (POA PRATENSIS) OR CANADIAN BLUEGRASS (POA COMMUNIS) CONTAINING A GROWTH OF NOT MORE THAN THIRTY (30) PERCENT OF OTHER GRASSES AND CLOVERS, AND FREE FROM ALL NOXIOUS WEEDS SUCH AS WILD MUSTARD, THISTLES, QUACK GRASS, AND JOHNSON GRASS; AND REASONABLY FREE FROM DANDELIONS AND GRAB GRASS.

MULCHING-

MULCH USED WITH SEEDING SHALL BE APPLIED AT THE RATES SPECIFIED ABOVE. MULCH APPLIED WITHOUT SEEDING (SUCH AS WHEN SEASONAL CONDITIONS PROHIBIT THE APPLICATION OF TEMPORARY OR PERMANENT SEEDING) SHALL BE APPLIED AT A RATE OF TWO (2) TONS PER ACRE.

STRUCTURAL PRACTICES

- SILT FENCING AND SEDIMENT BASINS, TRAPS OR PONDS SHALL BE INSTALLED WITHIN 7 DAYS FROM THE START OF GRUBBING AND PRIOR TO GRADING.
- INLET FILTERS- INLET FILTERS SHALL BE ERECTED AT ALL STORM SEWER STRUCTURES THAT ACCEPT RUNOFF. FILTER SHALL BE IN PLACE WITHIN 48 HOURS FROM THE TIME THE STRUCTURE WAS CONSTRUCTED.
- SILT FENCE- SILT FENCE WILL BE CONSTRUCTED WHERE SURFACE RUNOFF DRAINS OFF-SITE TO PREVENT THE TRANSPORTATION OF SEDIMENT. SILT FENCE WILL BE DESIGNED AND CONSTRUCTED TO MEET THE DESIGN CAPACITY CRITERIA IN THE COP PART 10.6.2.4.1.

STORM WATER MANAGEMENT AREAS-
THE STORM WATER SWALE SURROUNDING THE CSO BASIN WILL COLLECT THE RUNOFF FROM APPROXIMATELY 1.10 ACRES. DUE TO THE LOW SLOPE OF THE SWALE BOTTOM, ANY SEDIMENT WILL BE SETTLED OUT IN THE SWALE DURING CONSTRUCTION AND FOR POST-CONSTRUCTION. STORM WATER DETENTION IS NOT REQUIRED FOR THIS SITE.

STORM WATER MANAGEMENT
STORM WATER DRAINAGE COLLECTED IN THE CSO BASIN, POST-CONSTRUCTION, HAS BEEN FACTORED INTO THE DESIGN OF THE TREATMENT PLANT FACILITY. A VEGETATED SWALE WILL SURROUND MOST OF THE CSO BASIN TO CHANNEL THE STORM WATER INTO THE PORTAGE RIVER. THE MAINTENANCE BUILDING AND DRIVEWAYS WILL SHEET FLOW OVER A GRASS FILTER STRIP BEFORE DISCHARGING ONTO NEIGHBORING PROPERTIES. STORM WATER DETENTION IS NOT REQUIRED FOR THIS SITE.

INSPECTIONS/MAINTENANCE PROCEDURES
THE CONTRACTOR SHALL PROVIDE "QUALIFIED" PERSONNEL TO PERFORM INSPECTIONS OF THE EROSION DEVICES AT LEAST EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCHES OF RAIN PER 24 HOUR PERIODS. AN INSPECTION REPORT WILL BE COMPLETED, SIGNED AND DATED AFTER EACH INSPECTION. A COPY OF THE REPORT WILL BE KEPT WITH THE CONSTRUCTION SITE SUPERINTENDENT. ALL CONTROLS WILL BE MAINTAINED AND INSPECTED AS LONG AS A PORTION OF THE SITE REMAINS DISTURBED.

ALL TEMPORARY AND PERMANENT CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.

- THE FOLLOWING INSPECTION AND MAINTENANCE PRACTICES WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS:
 - BUILT-UP SEDIMENT WILL BE REMOVED FROM THE SEDIMENT BASIN WHEN THE BASIN'S CAPACITY HAS BEEN REDUCED BY 40% (ELEVATION 616.5).
 - BUILT-UP SEDIMENT WILL BE REMOVED FROM THE SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.
 - THE SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO INSURE THAT THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO INSURE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.
 - TEMPORARY AND PERMANENT SEEDING AND PLANTING AND SODDING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
 - DITCHES AND SWALES WILL BE INSPECTED FOR EROSION, OBSTRUCTIONS, AND HEALTHY VEGETATION GROWTH.
- ALL MATERIALS, WASTE MATERIALS, WASTE CONTROLS, AND SANITARY CONTROLS WILL BE INSPECTED AS WELL TO ENSURE NO SPILLS, LEAKS OR DISCHARGES NEED ADDRESSED.

OTHER CONTROLS

WASTE MATERIALS
ALL WASTE GENERATED FROM THESE CONSTRUCTION ACTIVITIES WILL BE HANDLED AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

HAZARDOUS WASTE
ALL HAZARDOUS MATERIALS SHALL BE HANDLED AND STORED ON-SITE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND LOCAL, STATE AND FEDERAL REGULATIONS. ALL INCOMPATIBLE MATERIALS WILL BE KEPT ISOLATED FROM ONE ANOTHER AND STORED IN A SECURE, WELL VENTILATED AREA WITH SUFFICIENT CONTAINMENT WHEN NOT IN USE.

ALL HAZARDOUS WASTE GENERATED FROM THE CONSTRUCTION ACTIVITY WILL BE PROPERLY IDENTIFIED AND PACKAGED FOR DISPOSAL IN ACCORDANCE WITH APPLICABLE EPA AND DOT REGULATIONS. ABSOLUTELY NO HAZARDOUS MATERIALS OR WASTES WILL BE DISPOSED OF IN THE SOIL WASTE DUMPSTERS. HAZARDOUS WASTES WILL BE PROPERLY MANIFESTED AND DISPOSED THROUGH AN APPROVED PERMITTED WASTE HANDLING FACILITY. THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE STRICTLY FOLLOWED.

SANITARY WASTE
ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF THREE (3) TIMES PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR.

- NON-STORM WATER DISCHARGES
IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:
 - WATER FROM WATER LINE, FIRE HYDRANT AND SPRINKLER SYSTEM FLUSHING
 - PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF OILS, FUELS OF HAZARDOUS MATERIALS HAS OCCURRED)
 - RUNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION)

NON-STORM WATER DISCHARGES WILL BE DIRECTED TO THE NEAREST STORMWATER CATCH BASIN TO PREVENT SITE SEDIMENT RUNOFF WHENEVER POSSIBLE. DISCHARGES WITH SEDIMENT LOADS WILL BE DISCHARGED THROUGH FILTER BASS. ALL OTHER NON-STORMWATER DISCHARGES WILL BE DIRECTED INTO THE SANITARY SEWER SYSTEM.

INVENTORY FOR POLLUTION PREVENTION PLAN
THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION:

- CONCRETE????-FERTILIZERS
- DIESEL FUELS????-PETROLEUM BASED PRODUCTS
- CLEANING SOLVENTS????-FUEL OIL
- MASONRY BLOCK????-RTAR?
- TAR?

MATERIAL MANAGEMENT PRACTICES
THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

- GOOD HOUSEKEEPING
THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.
 - TAN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO COMPLETE THE TASK.
 - ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
 - PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURERS' LABEL.
 - SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
 - WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
 - MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
 - THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.

HAZARDOUS PRODUCTS
THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.

- PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
- ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
- IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS' OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

PRODUCT SPECIFIC PRACTICES
THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ON-SITE DURING THE CONSTRUCTION PROJECT:

PETROLEUM PRODUCTS
ALL ON-SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF OIL, GASOLINE OR ANTI-FREEZE LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ON-SITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

VEHICLE OIL CHANGING ON-SITE WILL BE PROHIBITED UNLESS THE OIL IS CAPTURED AND PROPERLY DISPOSED. ABSOLUTELY NO OIL, ANTI-FREEZE, FUEL OR USED FILTERS WILL BE DISCARDED ON-SITE.

CONCRETE TRUCKS
CONCRETE TRUCKS WILL BE PERMITTED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE ON THE SITE IN DESIGNATED AREAS ONLY.

FERTILIZERS
FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS
ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM, BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

SPILL CONTROL PRACTICES
IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

- MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.

ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.

- THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE.
- THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM RECURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.
- THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR.

GENERAL CONTRACTOR REQUIREMENTS
THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS INVOLVED WITH A CONSTRUCTION ACTIVITY THAT DISTURBS SITE SOIL OR WHO IMPLEMENT A POLLUTANT CONTROL MEASURE IDENTIFIED IN THE STORM WATER POLLUTION PREVENTION PLAN MUST COMPLY WITH THE FOLLOWING REQUIREMENTS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT ("GENERAL PERMIT") AND ANY LOCAL GOVERNING AGENCY HAVING JURISDICTION CONCERNING EROSION AND SEDIMENTATION CONTROL:

CO-PERMITTE NOTICE OF INTENT
THE CONTRACTOR SHALL SUBMIT A CO-PERMITTE NOTICE OF INTENT FOR COVERAGE UNDER OHIO EPA STORM WATER CONSTRUCTION GENERAL PERMIT (SEE APPENDIX B FOR FORM).

OHIO ENVIRONMENTAL PROTECTION AGENCY
STORM WATER SECTION
DIVISION OF SURFACE WATER
809 PHELPS MANAGER
LAZARUS GOVERNMENT CENTER
P.O. BOX 1049
COLUMBUS, OHIO 43216-1049
614-644-2034

PLAN AVAILABILITY/RECORDS RETENTION
A COPY OF THE NOTICE OF INTENT (NOI) AND LETTER AUTHORIZING DISCHARGES UNDER THE GENERAL PERMIT FOR CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT SHALL BE POSTED AT THE SITE IN A PROMINENT PLACE FOR PUBLIC VIEWING. A COPY OF THESE PLANS, ALONG WITH ALL RECORDS, REPORTS AND SUPPORTING DOCUMENTATION, WILL BE KEPT ON-SITE AT ALL TIMES THROUGHOUT THE CONSTRUCTION PROJECT AND WILL BE TURNED OVER TO THE OWNER AT THE COMPLETION OF THE PROJECT. THE OWNER WILL MAINTAIN THE RECORDS FOR AT LEAST THREE YEARS AFTER THE CONSTRUCTION PROJECT HAS BEEN COMPLETED.

THESE PLANS, RECORDS, REPORTS, AND SUPPORTING DOCUMENTATION WILL BE AVAILABLE UPON REQUEST TO THE DIRECTOR OF THE OHIO EPA, OR ANY AUTHORIZED REPRESENTATIVE, AND PORTIONS NOT CLASSIFIED AS CONFIDENTIAL TO ANY OTHER INTERESTED PARTY AS REQUIRED UNDER SECTION JOB (B) OF THE FEDERAL WATER POLLUTION CONTROL ACT.

RECORDS WILL INCLUDE:

- THE DATES WHEN SUBSTANTIAL GRADING ACTIVITIES OCCUR IN A PARTICULAR AREA;
- THE DATES WHEN CONSTRUCTION ACTIVITIES CEASE IN AN AREA, TEMPORARILY OR PERMANENTLY;
- THE DATES WHEN AN AREA IS STABILIZED

PLAN CHANGES
THE GENERAL CONTRACTOR SHALL NOTIFY THE OWNER OF CHANGES IN DESIGN, CONSTRUCTION, OPERATION, MAINTENANCE OR ANY DEFICIENCIES DETECTED IN THE PLAN THAT WILL HAVE A SIGNIFICANT EFFECT ON THE POTENTIAL FOR DISCHARGING POLLUTANTS IN STORM WATER AT THE SITE. THE OWNER SHALL MODIFY THIS STORM WATER POLLUTION PREVENTION PLAN TO CORRECT THE DEFICIENCIES OR REFLECT THE CHANGES AND NEW CONDITIONS.

THE OWNER SHALL ALSO MODIFY THE PLAN WITHIN SEVEN (7) DAYS AFTER A RELEASE OF A REPORTABLE QUANTITY OF A HAZARDOUS SUBSTANCE OR OIL.

THE OWNER SHALL ALSO MODIFY THE PLANS AS REQUIRED BY THE OHIO EPA STORM WATER DIVISION IMMEDIATELY AFTER NOTIFICATION OF THE REQUIRED CHANGES. THE OWNER SHALL CERTIFY TO THE DIRECTOR OF THE OHIO EPA THAT THE REQUIRED CHANGES HAVE BEEN MADE.

ALL MODIFICATIONS OF THE PLAN SHALL BE CERTIFIED BY THE OWNER AND THE GENERAL CONTRACTOR.

NOTICE OF TERMINATION
A WRITTEN OFFICIAL NOTICE OF TERMINATION WILL BE SUBMITTED BY THE OWNER TO THE OHIO EPA WITHIN FORTY-FIVE (45) DAYS AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED IN ACCORDANCE WITH THE GENERAL CONSTRUCTION STORM WATER PERMIT TO COMMUNICATE THAT THIS CONSTRUCTION ACTIVITY HAS CEASED AND THE AREA HAS BEEN STABILIZED.

OFF-SITE SEDIMENT TRACKING
THE TRACKING OF SEDIMENT OFF-SITE SHALL BE MINIMIZED BY INSTALLING GRAVEL CONSTRUCTION ENTRANCES AND CONDUCTING SCHEDULED SWEEPING/GOOD HOUSEKEEPING ACTIVITIES.

TRENCH AND GROUND WATER CONTROL
THERE SHALL BE NO TURBO DISCHARGES TO SURFACE WATERS OF THE SITE RESULTING FROM DEWATERING ACTIVITIES. IF TRENCH OR GROUND WATER CONTAINS SEDIMENT, IT MUST PASS THROUGH A SEDIMENT SETTLING POND OR OTHER EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE PRIOR TO BEING DISCHARGED FROM THE CONSTRUCTION SITE. ALTERNATIVELY, SEDIMENT MAY BE REMOVED BY SETTLING IN PLACE OR BY DEWATERING INTO A SUMP PIT, FILTER BAG, OR COMPARABLE PRACTICE. GROUND WATER DEWATERING WHICH DOES NOT CONTAIN SEDIMENT OR OTHER POLLUTANTS IS NOT REQUIRED TO BE TREATED PRIOR TO DISCHARGE. HOWEVER, CARE MUST BE TAKEN WHEN DISCHARGING GROUND WATER TO ENSURE THAT IT DOES NOT BECOME POLLUTANT-LADEN BY TRAVERSING OVER DISTURBED SOILS OR OTHER POLLUTANT SOURCES. DISCHARGE WATER ONLY TO STABILIZED SITES, SUCH AS GRASS SWALES, STREAMS OR STORM SEWERS. DO NOT DISCHARGE ONTO EXPOSED SOILS, STREAM BANKS, OR ANY SITE WHERE THE FLOW COULD CAUSE EROSION.

POST-CONSTRUCTION STORMWATER MANAGEMENT REQUIREMENTS
(SMALL CONSTRUCTION ACTIVITIES, UNDER 5 ACRES DISTURBED)

SO THAT THE RECEIVING STREAM'S PHYSICAL, CHEMICAL, AND BIOLOGICAL CHARACTERISTICS ARE PROTECTED AND STREAM FUNCTIONS ARE MAINTAINED, POST-CONSTRUCTION STORM WATER PRACTICES SHALL PROVIDE PERPETUAL MANAGEMENT OF RUNOFF QUALITY AND QUANTITY.

OWNERS CERTIFICATION
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUPPLIED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.