

LEGAL DESCRIPTIONS

PER WARRANTY DEED L 465, P. 749, GRATIOT COUNTY RECORDS:

THE FOLLOWING DESCRIBED PREMISES SITUATED IN THE TOWNSHIP OF SEVILLE, COUNTY OF GRATIOT, AND STATE OF MICHIGAN: SOUTH 90 ACRES OF THE SE 1/4 TO SECTION 1, T12N, R4W, MICHIGAN, EXCEPT RIGHT OF WAY OVER AND ACROSS SAID PREMISES GRANTED TO THE CONSUMERS POWER COMPANY, AS SHOWN BY LIBER 235 OF DEEDS, PAGE 20 AND ANY INSTRUMENTS AFFECTING THE SAME.

MORE PARTICULARLY DESCRIBED AS SURVEYED:

PART OF THE SE 1/4 OF SECTION 1, T12N-R4W, SEVILLE TOWNSHIP, GRATIOT COUNTY, MICHIGAN, DESCRIBED AS COMMENCING AT THE SE CORNER OF SAID SECTION; THENCE S89°04'14"W 2626.68 FEET ALONG THE SOUTH SECTION LINE TO THE S 1/4 CORNER OF SAID SECTION; THENCE N00°25'03"W 1491.50 FEET ALONG THE N-S 1/4 LINE; THENCE N88°59'51"E 2630.55 FEET TO A POINT ON THE EAST SECTION LINE OF SAID SECTION; THENCE S00°16'15"E 1491.54 FEET ALONG SAID EAST LINE TO THE POINT OF BEGINNING. THIS PARCEL CONTAINS 90.22 ACRES, MORE OR LESS, AND IS SUBJECT TO APPLICABLE EASEMENTS AND SERVITUDES OF USE OR RECORD, IF ANY. THIS DESCRIPTION REFLECTS THE PARCEL CONFIGURATION AS SHOWN ON THE CERTIFICATE OF SURVEY AS RECORDED IN LIBER 845, PAGE 830, GRATIOT COUNTY RECORDS, BY WILLIAM G. TINGLEY, P.S., MICHIGAN LICENSE #30104, DATED DECEMBER 21, 2007. JOB #07716-001.

SURVEYOR'S NOTES

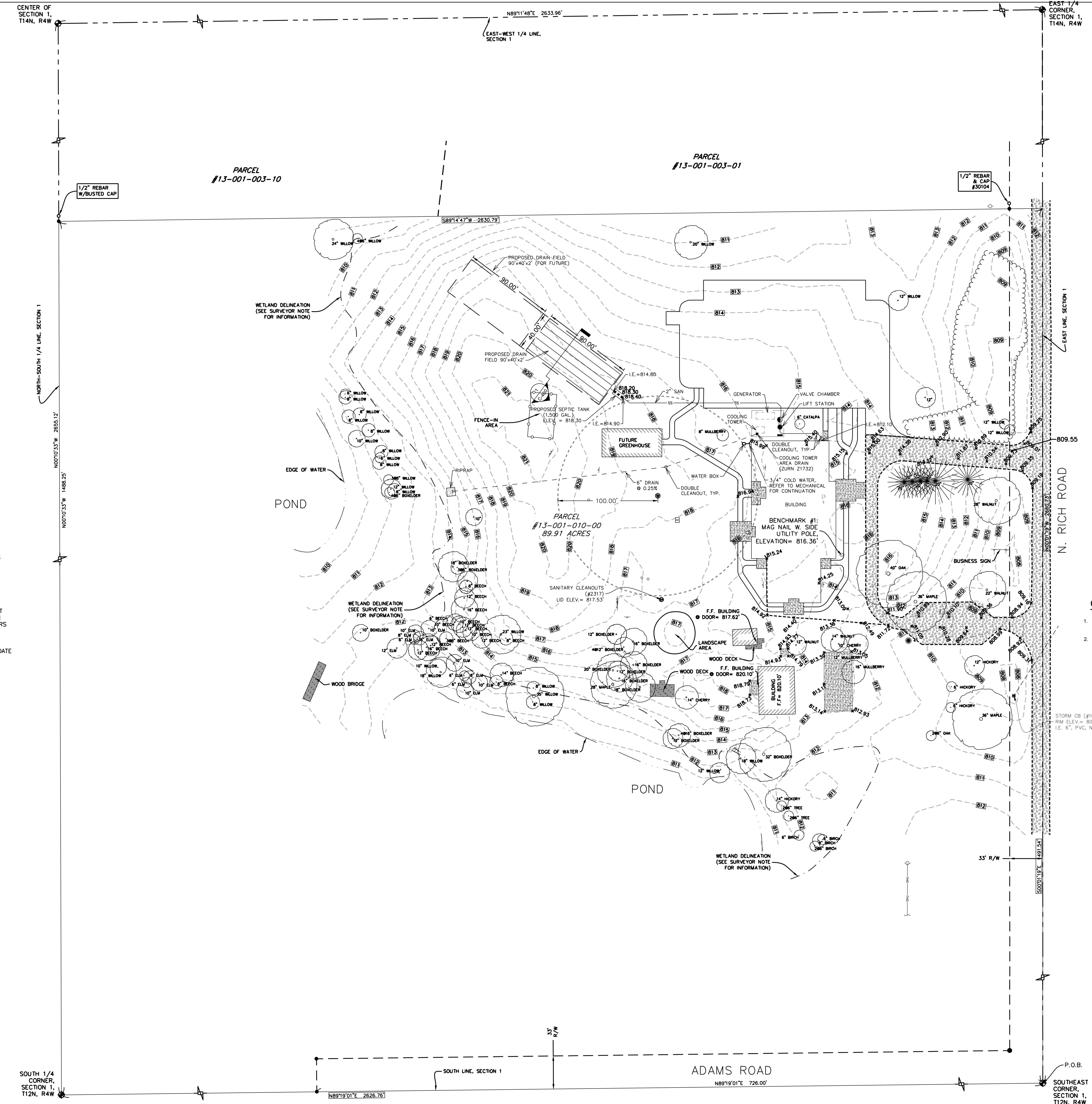
1. THIS BOUNDARY SURVEY IS AN ENTRACEMENT OF A SURVEY BY WILLIAM G. TINGLEY, P.S. #30104, RECORDED IN LIBER 852, PAGE 896, GRATIOT COUNTY RECORDS. SAID SURVEY REFLECTS THE NORTH PROPERTY LINE LOCATION PER BOUNDARY LINE AGREEMENT RECORDED IN LIBER 845, PAGE 830, GRATIOT COUNTY RECORDS.
2. WETLANDS DELINEATION SHOWN HEREON ARE BASED ON FLAGS PLACED BY CERTUS ENVIRONMENTAL ON SEPTEMBER 18, 2024, AS PART OF CERTUS JOB NO. 24-1311.
3. EASEMENT TO CONSUMERS POWER COMPANY, LIBER 235 OF DEEDS, PAGE 20, GRATIOT COUNTY RECORDS, DOES NOT AFFECT SUBJECT PROPERTY AND IS NOT SHOWN HEREON. NO OTHER EASEMENTS DISCOVERED DURING THE COURSE OF THIS SURVEY.

CERTIFICATION

I, MICHAEL NEAL VAN FOSSEN, PROFESSIONAL SURVEYOR #71291, CERTIFY THAT THIS SURVEY WAS MADE UNDER MY DIRECTION, THAT ALL CORNERS HAVE BEEN MARKED AS SHOWN, THAT THE RELATIVE POSITIONAL PRECISION OF THE CORNERS IDENTIFIED ON THIS SURVEY AND SHOWN THEREON ARE WITHIN THE LIMITS CONSIDERED ACCEPTABLE BY THOSE IN THE PRACTICE OF PROFESSIONAL SURVEYING, AND THAT THE TOPOGRAPHY SHOWN HEREON IS AN ACCURATE REPRESENTATION OF SITE FEATURES AS OF SEPTEMBER 23, 2024, THE FINAL DATE OF FIELD WORK.

EXISTING LEGEND

---900---	CONTOUR - M/R	⊕	SECTION CORNER
---90---	CONTOUR - MNR	●	SET IRON
---	SANITARY SEWER	○	FOUND IRON
---	OVERHEAD ELECTRIC LINE	⊙	SPOT ELEVATION
---	CHAINLINK FENCE	⊙	STORM CATCH BASIN
---	BRUSH LINE	⊙	SANITARY MANHOLE
---	SURFACE WATER	⊙	WELL
---	WETLAND LIMITS	⊙	UTILITY POLE
---	ROW	⊙	GUY WIRE
---	PROPERTY LINE	⊙	AIR CONDITIONER
---	SECTION LINE	⊙	POST
---	STRUCTURE	⊙	STREET SIGN
---	WOOD/DECK	⊙	BENCH
---	CONCRETE	⊙	DECIDUOUS TREE
---	GRAVEL	⊙	EVERGREEN TREE



GENERAL NOTES

1. PIPE/FORCE MAIN - SCHEDULE 80 PVC WITH TRACER WIRE AND WARNING TAPE.
2. COOLING TOWER DRAIN - PERFORATED HDPE N12 PIPE.

STORM CB (#1074)
IRM ELEV = 808.99'
I.E. 6", PVC, NE = 804.69'

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MATRIX
CONSULTING ENGINEERS, INC.
CONSULTANT

Forest Hills Nature Center
New Nature Center
1297 N Rich Rd, Alma, MI 48801
Seville Township, Gratiot County
Alma, Michigan 48801
PROJECT #24-43

NO.	DATE	DESCRIPTION

SITE PLAN - SANITARY AND TOWER DRAIN
SHEET TITLE

C-400
SHEET NUMBER

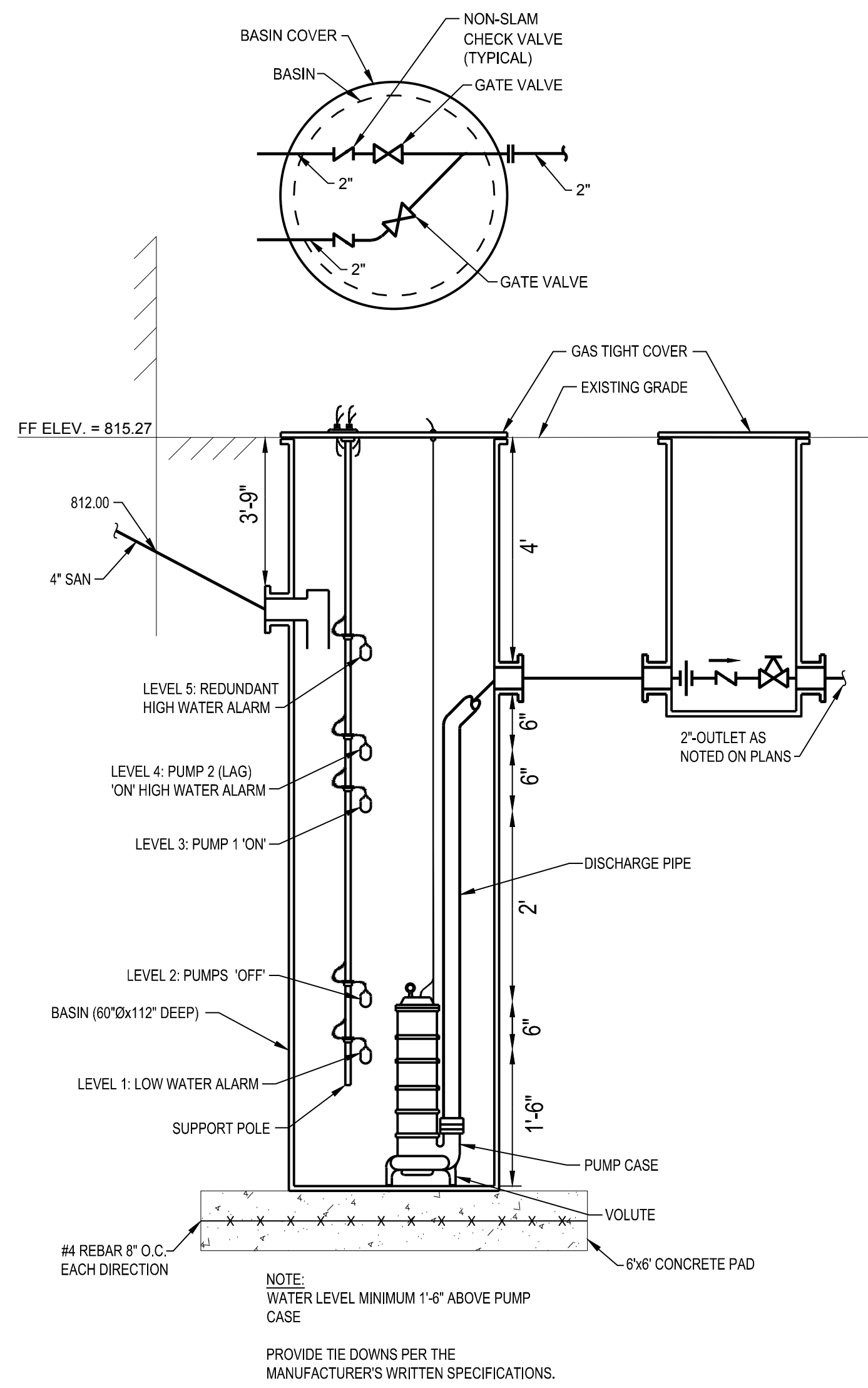
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NO.	DATE	BY	CHKD	DESCRIPTION

NO.	DATE	BY	CHKD	DESCRIPTION

GRINDER PUMP SCHEDULE														
TAG	MODEL	TYPE	GPM	FT. HEAD	DISCHARGE		BASIN			ELECTRICAL				REMARKS
					PIPE	SOLID	TYPE	DIA	DEPTH	HP	VOLTS	PHASE	FLA	
GP-1	GRP121	SUBMERSIBLE	37.5	17.5	2"	0.5"	FIBERGLASS	60"	108"	1.2	240	1	5.20	1,2,3,4
GP-2	GRP121	SUBMERSIBLE	37.5	17.5	2"	0.5"	FIBERGLASS	60"	108"	1.2	240	1	5.20	1,2,3,4

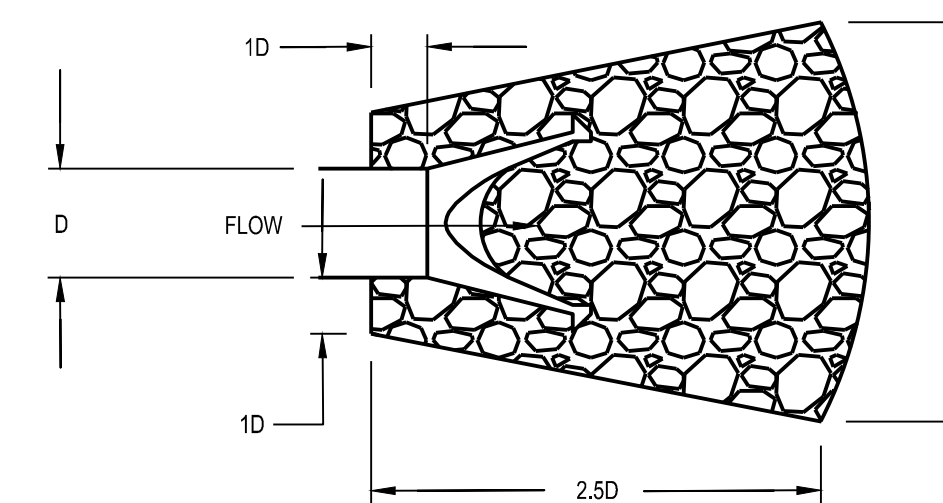
NOTES:
1. BASED ON: HGMA
2. PROVIDE BASIN COVER
3. PROVIDE DUPLEX CONTROL PANEL W/ INTERNAL DISCONNECT & STARTER
4. PROVIDE LEVEL CONTROL SYSTEM WITH ALARM LIGHT



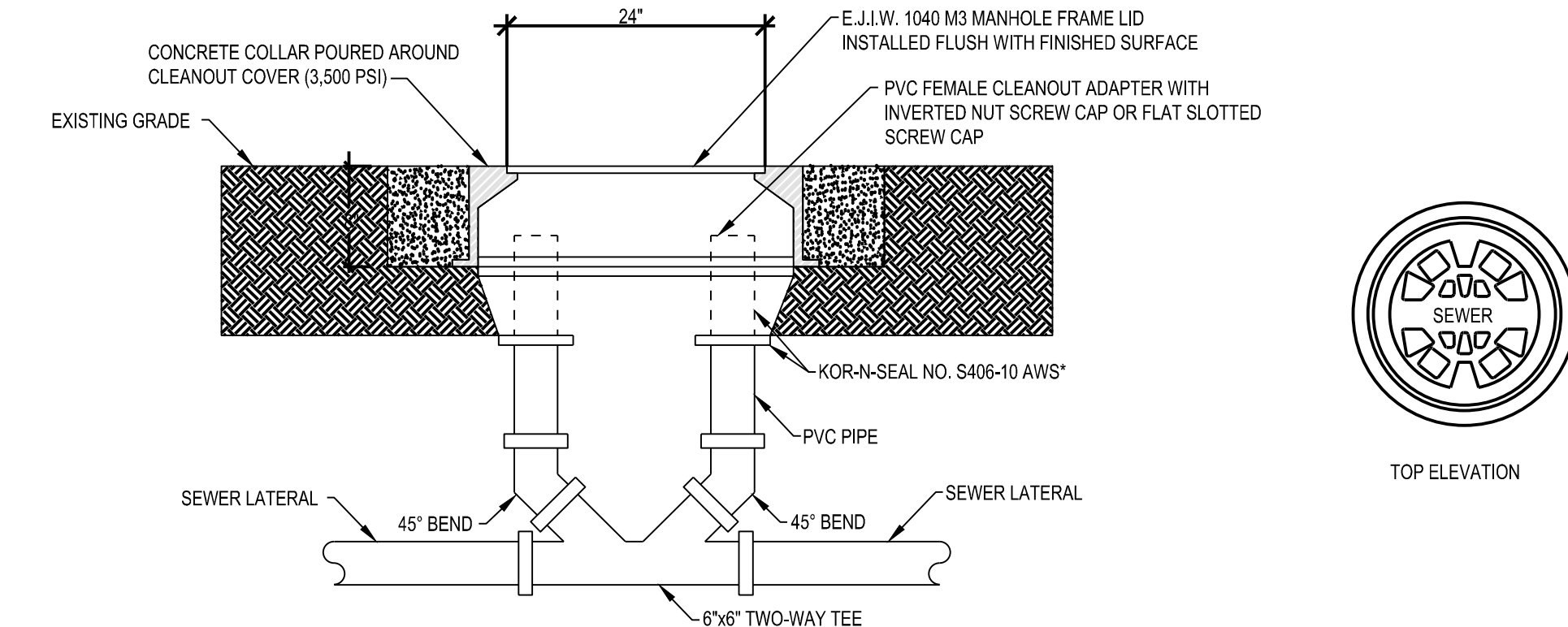
1 SUMP PUMP DUPLEX DETAIL
SCALE: NTS

LIFT STATION

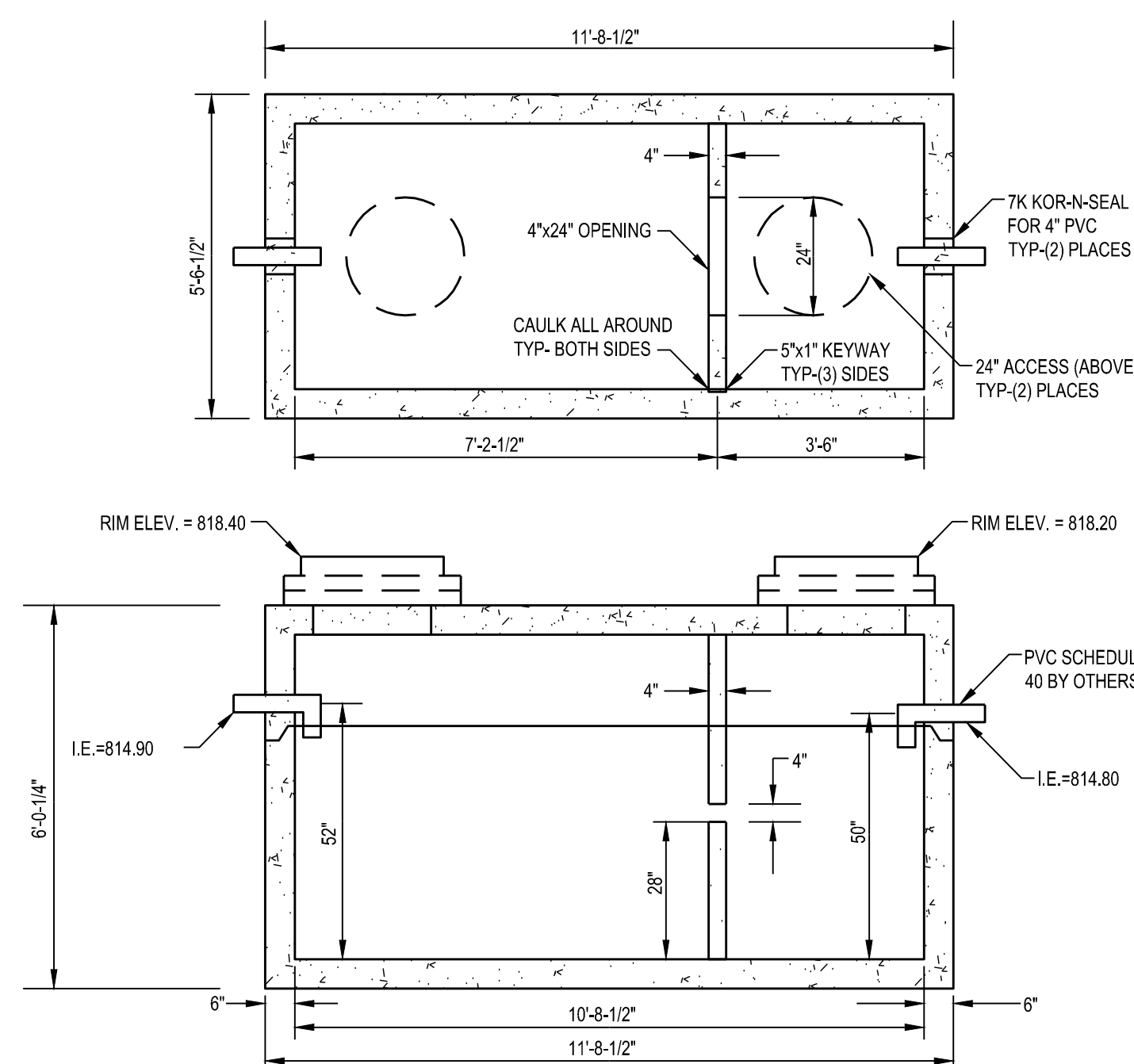
PUMP STATION SEQUENCE OF OPERATION:
- LEVEL 1 - LOW WATER ALARM
- LEVEL 2 - BOTH PUMPS 'OFF'
- LEVEL 3 - START LEAD PUMP. PUMPS SHALL ALTERNATE ON EACH CALL.
- LEVEL 4 - START LAG PUMP. BOTH PUMPS RUNNING SIMULTANEOUSLY. HIGH WATER ALARM
- LEVEL 5 - REDUNDANT HIGH WATER LEVEL ALARM
*CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING ALL CONTROLS ON THE BUILDING AS NEEDED TO MEET THE SEQUENCE OF OPERATIONS.



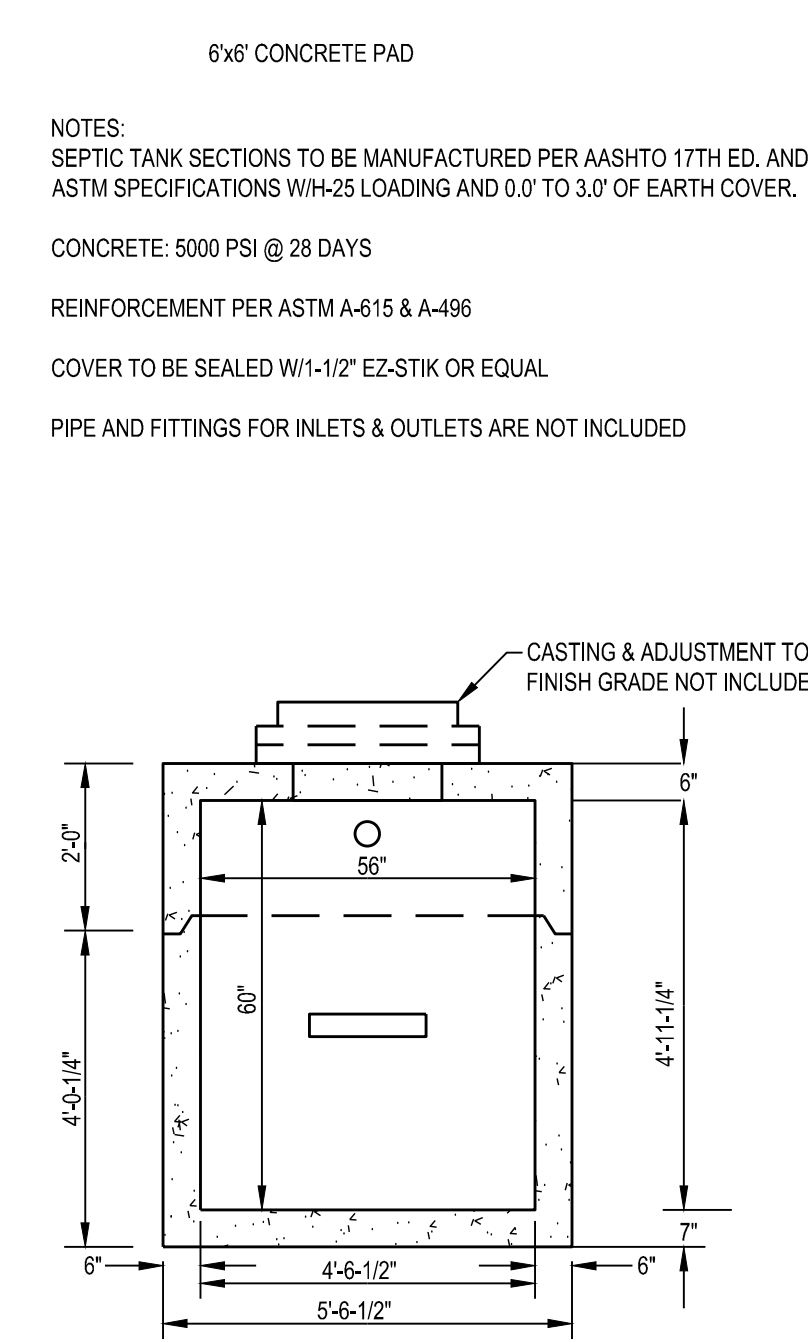
2 ROCK RIPRAP DISSIPATOR
SCALE: NTS



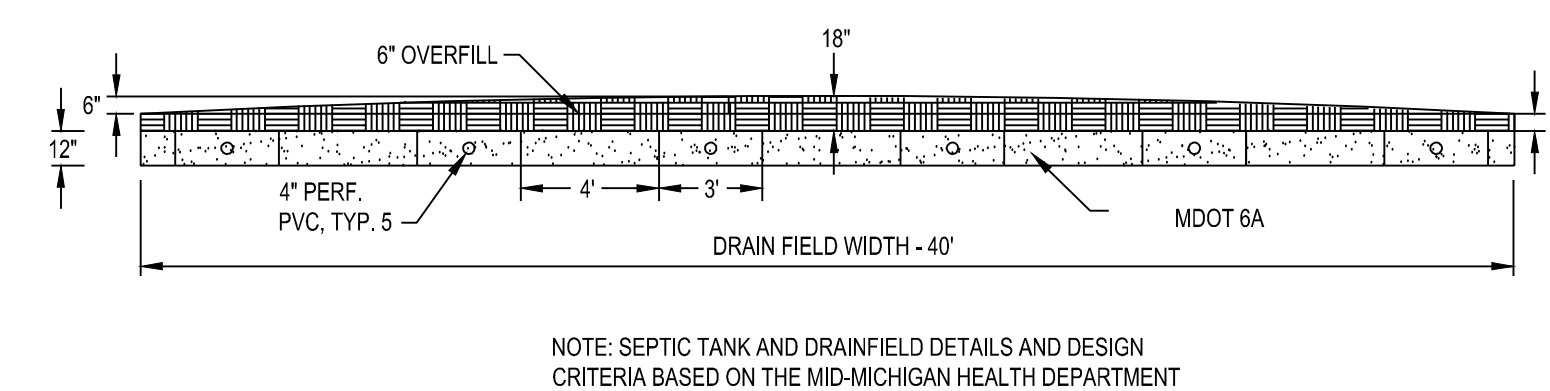
3 DOUBLE SANITARY CLEANOUT DETAIL
SCALE: NTS



4 SEPTIC TANK DETAIL
SCALE: NTS



1 DRAIN FIELD SECTION VIEW
SCALE: NTS



NOTE: SEPTIC TANK AND DRAINFIELD DETAILS AND DESIGN CRITERIA BASED ON THE MID-MICHIGAN HEALTH DEPARTMENT