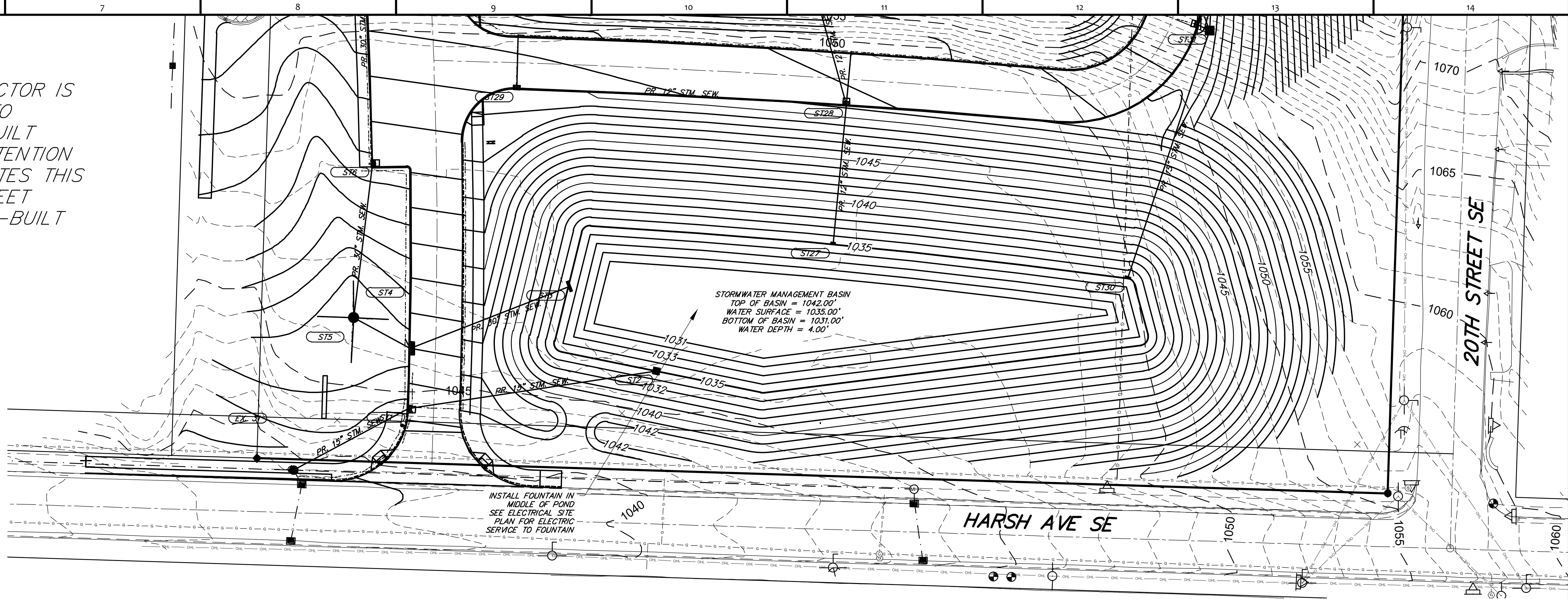


NOTE: CONTRACTOR IS RESPONSIBLE TO PROVIDE AS-BUILT SURVEY OF DETENTION BASIN. SEE NOTES THIS SHEET AND SHEET C-401 FOR AS-BUILT REQUIREMENTS



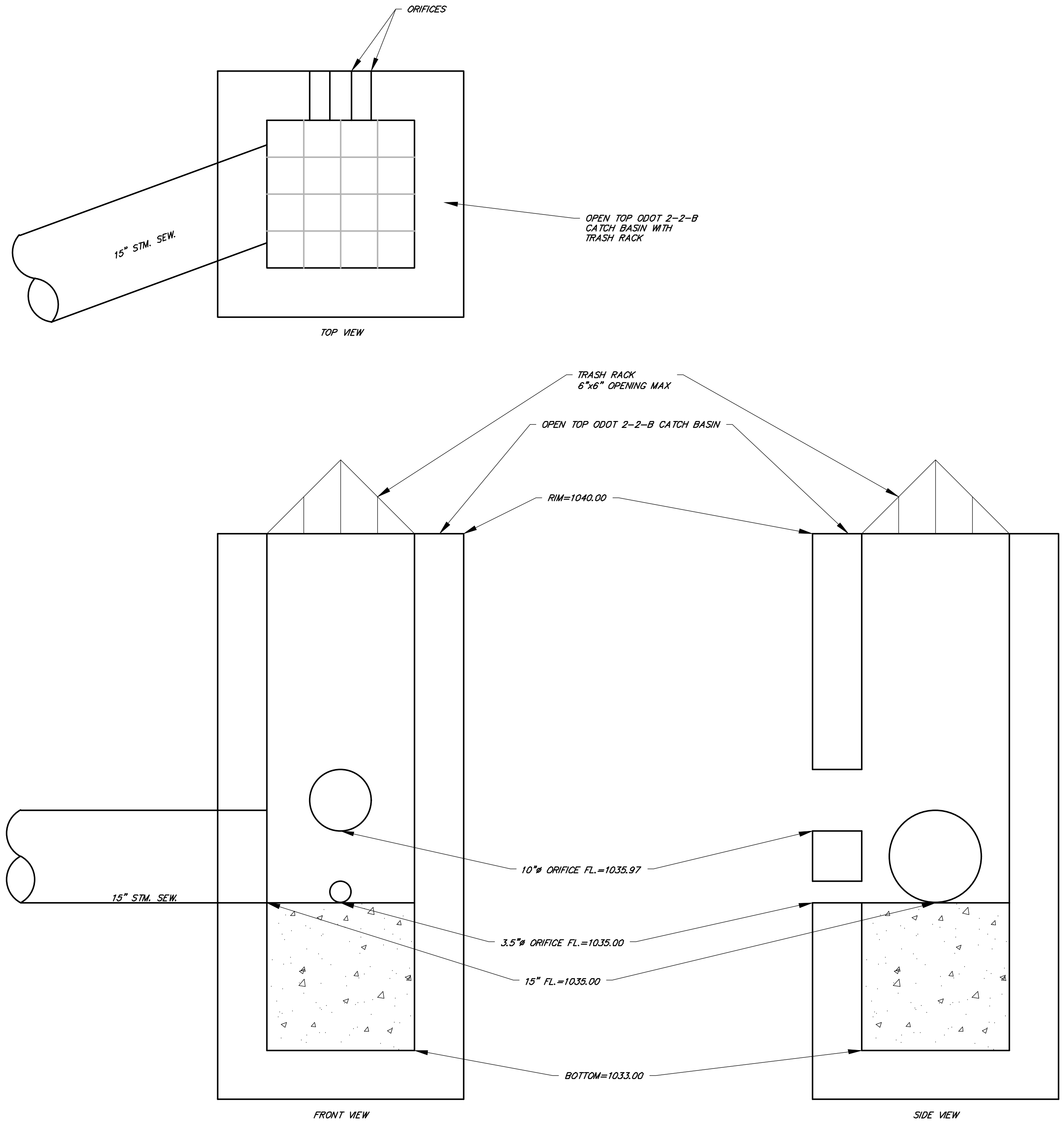
STORMWATER MANAGEMENT PLAN  
SCALE: 1"=20'

STORMWATER MANAGEMENT BASIN NOTES

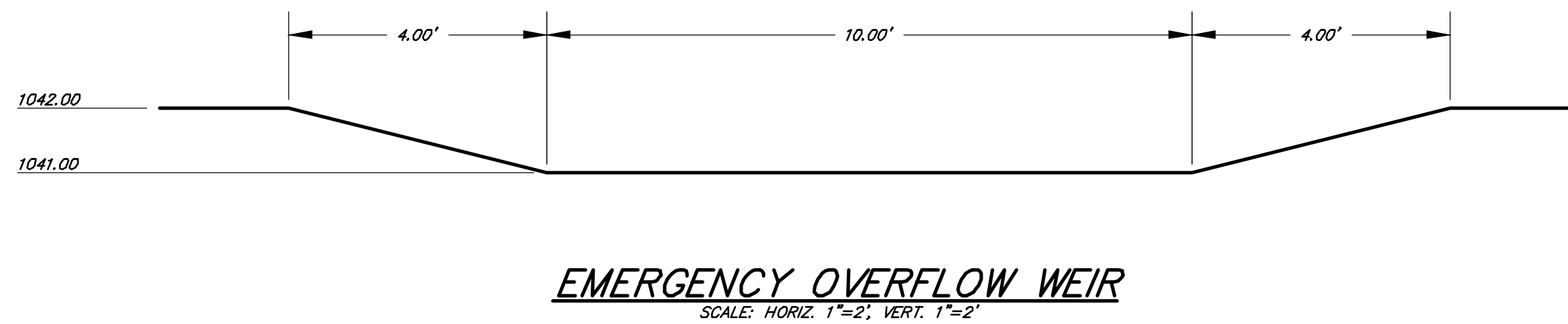
- 1) THE FINAL STORMWATER MANAGEMENT BASIN SHALL NOT BE INSTALLED UNTIL THE END OF THE PROJECT. SEE SHEET C-700 FOR DIRECTION ON USING THE STORMWATER MANAGEMENT BASIN AS A SEDIMENT BASIN WHILE THE SITE IS UNDER CONSTRUCTION.
- 2) THE CONTRACTOR SHALL INSTALL THE STORMWATER MANAGEMENT BASIN AS SHOWN ON THIS PLAN AT THE END OF THE PROJECT.
- 3) THE CONTRACTOR SHALL COMPLETELY DENATER THE SEDIMENT BASIN PRIOR TO BEGINNING ANY REGRADING ANY PARTS OF THE SEDIMENT BASIN TO ACHIEVE THE FINAL PLAN ELEVATIONS OF THE STORMWATER MANAGEMENT BASIN.
- 4) THE CONTRACTOR IS RESPONSIBLE FOR ALL EXPENSES TO CONVERT THE SEDIMENT BASIN TO THE FINAL STORMWATER MANAGEMENT BASIN, AS SHOWN ON THIS PLAN, INCLUDING BUT NOT LIMITED TO, REGRADING OF THE STORMWATER MANAGEMENT BASIN, MODIFICATION OF THE OUTLET STRUCTURE, CLEANING OF THE OUTLET STRUCTURE AND SITE STORM SEWERS.
- 5) AFTER THE CONSTRUCTION OF THE STORMWATER MANAGEMENT BASIN AND CONVERSION OF THE OUTLET STRUCTURE, THE CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY STAMPED BY AN OHIO REGISTERED PROFESSIONAL SURVEYOR, IN BOTH PAPER COPY AND ELECTRONIC AUTOCAD FILE, AND STORMWATER MANAGEMENT BASIN AS-BUILT ROUTING CALCULATIONS PREPARED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER, TO THE PROJECT ENGINEER OF THE STORMWATER MANAGEMENT BASIN AREA AND OUTLET STRUCTURE FOR REVIEW AND ACCEPTANCE OF WORK.
- 6) DEVIATION FROM THE DESIGN ELEVATIONS AND LOCATIONS OF MORE THAN 1/2" VERTICALLY OR 2' HORIZONTALLY FOR THE OUTLET STRUCTURE, INCLUDING RMS, FLOWMETERS, ORIFICE AND OVERFLOW WEIRS, WILL NOT BE ACCEPTED.
- 7) DEVIATION OF 5% OR GREATER FROM THE DESIGN STORAGE VOLUME AT EACH CONTOUR ELEVATION WILL NOT BE ACCEPTED.
- 8) THE WATER QUALITY VOLUME MUST BE MET IN ITS ENTIRETY.
- 8) THE STORMWATER MANAGEMENT BASIN SHALL NOT AT ANY TIME DISCHARGE STORM WATER AT A HIGHER RATE THAN ANY ALLOWABLE DISCHARGE RATE FOR EACH STORM EVENT.
- 9) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXPENSES TO HIRE A PROFESSIONAL SURVEYOR AND PROFESSIONAL ENGINEER TO PERFORM AN AS-BUILT SURVEY AND PERFORM STORMWATER MANAGEMENT BASIN ROUTING CALCULATIONS, AS WELL AS REGRADE THE BASIN TO THE DESIGN ELEVATIONS AND LOCATIONS AND ADJUST OR REPLACE THE OUTLET STRUCTURE UNTIL SAID AS-BUILT DRAWINGS AND CALCULATIONS DEMONSTRATE THAT THE WORK IS COMPLETE AND ACCEPTABLE TO THE PROJECT ENGINEER.
- 10) AS-BUILT DETENTION ROUTING CALCULATIONS ARE REQUIRED. THE AS-BUILT ROUTING CALCULATIONS SHALL BE PREPARED BY A LICENSED PROFESSIONAL ENGINEER AND SUBMITTED TO THE PROJECT ENGINEER FOR REVIEW. ALL CALCULATIONS SHALL INCLUDE PRE-DEVELOPED & POST-DEVELOPED RUNOFF CONDITIONS, WATER QUALITY VOLUME DRAINDOWN CALCULATIONS IN ACCORDANCE WITH THE OHIO EPA GENERAL CONSTRUCTION PERMIT OHIO000000, AS-BUILT DETENTION BASIN RELEASE RATES AND PEAK STORAGE ELEVATIONS, BASED ON THE AS-BUILT POND VOLUME AND OUTLET STRUCTURE(S).
- 11) AT THE END OF THE PROJECT, AFTER FINAL SITE STABILIZATION IS COMPLETE (70%+ VEGETATIVE COVER ESTABLISHED), THE CONTRACTOR SHALL SUBMIT VIDEO EVIDENCE OF ALL STORM SEWERS AND UNDERGROUND STORMWATER MANAGEMENT CHAMBER SYSTEMS (IF APPLICABLE) TO PROVE THE STORM SEWERS AND UNDERGROUND STORMWATER MANAGEMENT CHAMBER SYSTEMS ARE CLEAR OF ANY SEDIMENT, TRASH OR DEBRIS. EACH STORM RUN AND UNDERGROUND STORMWATER MANAGEMENT CHAMBER SYSTEM RUN (IF APPLICABLE) SHALL BE INSPECTED, IN ACCORDANCE WITH ODOT 611.12 REQUIREMENTS AND A PERFORMANCE REPORT SHALL BE SUBMITTED ALONG WITH THE VIDEO FILES FOR REVIEW IN ACCORDANCE WITH ODOT 611.04 D. IF ANY SEDIMENT, TRASH OR DEBRIS IS PRESENT, THE CONTRACTOR SHALL CLEAN THE STORM SEWERS USING THE JET-VAC PROCESS RECOMMENDED BY THE MANUFACTURE AND RESUBMIT NEW VIDEO EVIDENCE AND PERFORMANCE REPORT OF THE STORM SEWERS, AT TO ADDITIONAL COST TO THE PROJECT.
- 12) IN THE EVENT THE CONTRACTOR FAILS TO PRODUCE ADEQUATE CLOSE OUT DOCUMENTS INCLUDING AS-BUILTS AND VIDEO INSPECTION, THE DESIGN TEAM RESERVES THE RIGHT TO REPERFORM AND/OR SUBCONTRACT THE REQUIRED SERVICES REQUIRED TO PRODUCE THE REQUIRED AS-BUILT DOCUMENTS AND VIDEO INSPECTIONS. THE CONTRACTOR WILL THEN BE BACK CHARGED FOR THE COST PLUS TEN PERCENT (10%) THE FEES ASSOCIATED WITH ACQUIRING THE REQUIRED DOCUMENTS.

NOTE:  
CONTRACTOR SHALL INSTALL FLOATING FOUNTAIN SYSTEM IN MIDDLE OF BASIN FOR WATER QUALITY CONTROL. SEE ELECTRICAL PLANS FOR POWER TO FOUNTAIN.  
FOUNTAIN SHALL BE OUTDOOR WATER SOLUTIONS EDD LINE 1/2 HP 115V FLOATING POND FOUNTAIN, OR APPROVED EQUAL. CONTRACTOR SHALL PROVIDE ALL ITEMS, INCLUDING ANCHOR, INSTALLED.  
FOUNTAIN SPRAY SHALL PROVIDE GREATER THAN 50% SURFACE AREA OF THE POND. CONTRACTOR SHALL UPGRADE FOUNTAIN, OR PROVIDE MULTIPLE FOUNTAINS TO MEET INTENDED COVERAGE.

NOTE: THIS STORMWATER MANAGEMENT BASIN IS A WET EXTENDED DETENTION BASIN



OUTLET STRUCTURE "ST2" DETAIL  
SCALE: HORIZ. 1"=1', VERT. 1"=1'



EMERGENCY OVERFLOW WEIR  
SCALE: HORIZ. 1"=2', VERT. 1"=2'

STORMWATER MANAGEMENT BASIN SUMMARY						
STORM EVENT (YEAR)	PRE- DEVELOPED RUN-OFF RATES (C.F.S.)	POST- DEVELOPED RUN-OFF RATES (C.F.S.)	ALLOWABLE RUN-OFF RATES (C.F.S.)	DEFENTION BASIN DISCHARGE RATES (C.F.S.)	PEAK STORAGE ELEVATION (FT)	
1	13.57	17.69	13.57	1.32	1036.58	
2	18.86	23.31	13.57	2.58	1036.85	
5	27.50	31.82	13.57	3.64	1037.58	
10	35.16	39.45	13.57	4.37	1038.14	
25	47.00	50.79	47.00	5.20	1038.85	
50	57.37	60.51	57.37	5.74	1039.61	
100	68.73	71.07	68.73	6.18	1040.23	

THE CRITICAL STORM WAS CALCULATED TO BE THE 5-YEAR STORM  
MOV REQUIRED BELOW PERMANENT WATER SURFACE - 18,217.53 CUBIC FEET  
(INCLUDES STORAGE FOR SEDIMENT STORAGE)  
MOV PROVIDED BELOW PERMANENT WATER SURFACE - 42,408 CUBIC FEET  
MOV REQUIRED ABOVE PERMANENT WATER SURFACE - 16,014.61 CUBIC FEET  
MOV PROVIDED ABOVE PERMANENT WATER SURFACE - 16,008.53 CUBIC FEET

STORMWATER MANAGEMENT BASIN STORAGE (ABOVE PERMANENT POOL)	
ELEVATION (FEET)	VOLUME (CUBIC FEET)
1035	0
1036	16,607
1037	35,827
1038	57,761
1039	82,589
1040	110,172
1041	140,849
1042	174,643
STORMWATER MANAGEMENT BASIN STORAGE (PERMANENT POOL)	
ELEVATION (FEET)	VOLUME (CUBIC FEET)
1031	0
1032	7,231
1033	16,629
1034	28,315
1035	42,408

PROJECT NO  
2203-2

ARCHITECTURAL VISION GROUP, LTD  
ARCHITECTS • PLANNERS  
23850 SPERRY DRIVE  
CLEVELAND, OHIO 44145

CONSULTANT  
LEWIS LAND PROFESSIONALS, INC.  
Civil Engineering & Land Surveying

8691 WADSWORTH ROAD  
WADSWORTH, OH 44281  
PH (330) 335-8232  
FX (330) 335-0442  
WWW.LEWISLANDPRO.COM

Massillon East Site PK-3  
Eastside PK-3 Elementary School  
1 Paul E Brown Drive SE  
MASSILLON CITY SCHOOL DISTRICT  
MASSILLON, OHIO

PROJECT NO	2203-2
DRAWN BY	
CHECKED BY	
DATE	03/17/2023

STORMWATER MANAGEMENT BASIN PLAN

SCALE: 1"=40'

SHEET NO  
C-701

PLAN REVIEWED & EAP  
03/30/23  
DATE  
03/17/2023  
ISSUED TO OWNER SITE PACKAGE

PROJECT NO  
2203-2  
DRAWN BY  
CHECKED BY  
DATE  
03/17/2023

STORMWATER MANAGEMENT BASIN PLAN

SCALE: 1"=40'

SHEET NO  
C-701