

PROJECT DESCRIPTION
SLIP LINING OF VARIOUS SIZE STORM SEWER THAT PENETRATE THRU THE EXISTING LEVEE STRUCTURE; MODIFICATION AND REHABILITATION OF EXISTING SANITARY CHAMBERS AND SHUT OFF VALVES; CLEANING EXISTING SANITARY LINES AND EPOXY LINING ALONG WITH CAST IN PLACE PIPE.

- CONVENTIONAL SIGNS**
- RIGHT OF WAY EXISTING: _____, PROPOSED: _____
- COUNTY LINE _____
- TOWNSHIP LINE _____
- CORPORATION LINE _____
- FENCE LINE EXISTING: _____, PROPOSED: _____
- GUARDRAIL EXISTING: _____, PROPOSED: _____
- MANHOLES EXISTING: _____, PROPOSED: _____
- CATCH BASINS EXISTING: _____, PROPOSED: _____
- SIGNS 1-POST: _____, 2-POST: _____, 3-POST: _____, STREET: _____
- EXISTING POLES POWER: _____, TELEPHONE _____, LIGHT _____, SPAN _____
- PROPOSED POLES POWER: _____, TELEPHONE _____, LIGHT _____, SPAN _____
- EXIST. UTILITIES VALVE: _____, HYDRANT: _____, METERS: _____, GUY: _____
- CB CATCH BASIN PF PLUG AND FILL
- CC CONCRETE COLLAR R REMOVAL
- CIP CURED IN PLACE PIPE SC SIPHON CHAMBER
- CM CHAMBER MODIFICATION SCR SIPHON CHAMBER REHABILITATION
- DIP DUCTILE IRON PIPE SL HOST PIPE SLIP LINING
- DG WALL MOUNT AUTOMATIC DRAINAGE GATE SP SANITARY PIPE
- DM DRAINAGE MANHOLE SM SANITARY MANHOLE
- DP DRAINAGE PIPE SSS CAST IN PLACE GROUTING SLEEVE
- JR JOINT REPAIR DP DRAINAGE MODIFICATION

PERMIT TO INSTALL
SANITARY SEWER PERMIT TO INSTALL (P.T.I.) HAS BEEN RECEIVED FROM THE OHIO ENVIRONMENTAL PROTECTION AGENCY PROTECTION AGENCY THIS _____ DAY OF _____, 20____.

PTI No. _____

UNDERGROUND UTILITIES

TWO WORKING DAYS BEFORE YOU DIG
CALL 1-800-362-2764 (TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS MUST BE CALLED DIRECTLY

TWO WORKING DAYS BEFORE YOU DIG
1-800-925-0988 (TOLL FREE)
OIL & GAS PRODUCERS UNDERGROUND PROTECTION SERVICE

PLAN PREPARED BY:
CITY OF MASSILLON
Engineering Department

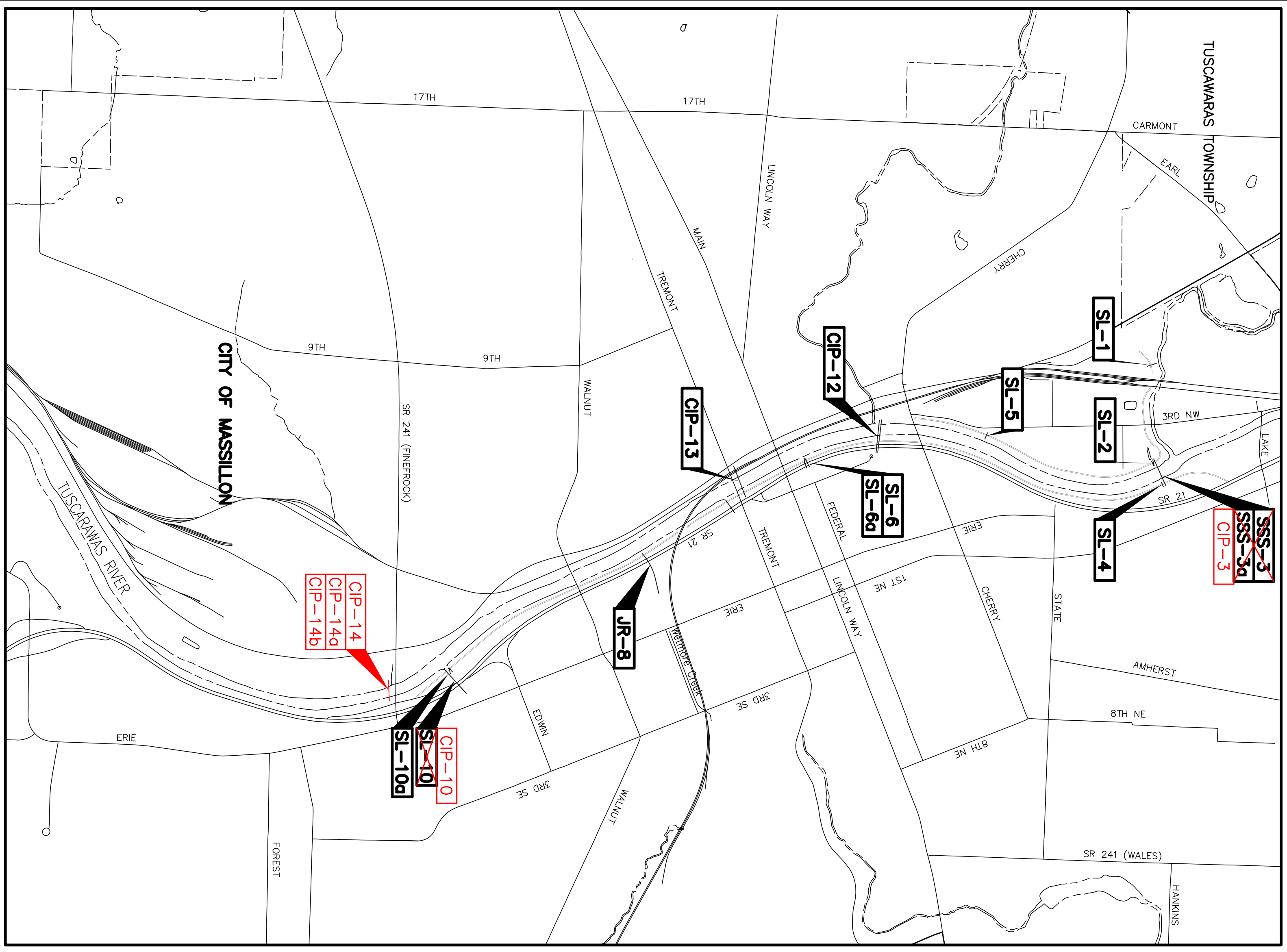
OWNER:
CITY OF MASSILLON
151 Lincoln Way East
Massillon, Ohio 44646

CITY OF MASSILLON

CITY ENGINEER DEPARTMENT

STARK COUNTY, OHIO

LEVEE INFRASTRUCTURE IMPROVEMENT PROJECT



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CITY ENGINEER KEITH A. DYLEWSKI, P.E., P.S. DATE

- CITY OF MASSILLON ELECTED OFFICIALS**
- KATHY CATAZARO-PERRY MAYOR
- PERICLES G. STERGIOS LAW DIRECTOR/PROSECUTOR
- JAYNE FERRERO AUDITOR
- MAUDE SLAGLE TREASURER
- COUNCIL
- TONY M. TOWNSEND PRESIDENT
- SARITA CUNNINGHAM-HEDDERLY 1st WARD
- NANCY HALTER 2nd WARD
- ANDREA SCASSA 3rd WARD
- QUENESSA N. HAMPTON 4th WARD
- DONNIE PETERS JR. 5th WARD
- ED LEWIS 6th WARD
- PAUL MANSON AT LARGE
- LARRY SLAGLE AT LARGE
- MILAN CHOYAN AT LARGE



Kathy Catazaro-Perry, Mayor
Massillon
City of Champions

AS-BUILTS

North arrow pointing North (N) and South (S). Scale bar showing 0, 500, and 1000 feet. Horizontal scale in feet.

REVISIONS:

DATE	DESCRIPTION
1/2015	AS-BUILTS

CHECKED BY: KAD
DATE: AUG. 2012
DRAWN BY: FPW
DATE: AUG. 2012

Levee Infrastructure Improvement Project

Title Sheet
City of Massillon
Stark County, Ohio

Kathy Catazaro-Perry, Mayor
Massillon
City of Champions

DRAWING NAME: LeveeInfra.dwg
CITY NUMBER: 101.V01
1 / 18

* THE FOLLOWING NOTES ARE CITY OF MASSILLON STANDARD NOTES AND MAY NOT BE APPLICABLE TO ALL PROJECTS.

UTILITIES

LISTED BELOW ARE ALL KNOWN UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS.

AT&T 50 WBOVERY, 6TH FLOOR AKRON, OH 44308 800-384-8057	AQUA WATER P.O. BOX 584 MASSILLON, OH 44648 (330) 833-4156	OHIO EDISON STARK DIVISION 2600 S. FRIE ST. MASSILLON, OH 44545 (330) 830-7085	MASSILLON CABLE TV P.O. BOX 814 MASSILLON, OH 44648 (330) 833-4134	GREAT LAKES 104 6TH ST. S.W. CANTON, OH 44702 (330) 456-2454
CITY OF MASSILLON SANITARY SIPHON 151 LINCOLN HWY. EAST MASSILLON, OH 44646 (330) 830-1722	AT&T COMMUNICATIONS 2553 E. WINTHROP AVE. DENVER, CO 80205-3601 (800) 852-3788	DOMINION EAST OHIO GAS COMPANY 4220 SOUTHWAY ST. S.W. CANTON, OH 44706 (330) 478-3142	GAS CORP. 9081 SR. 250 STRASBURG, OH 44680-9766 (330) 878-5589	NORTHEAST OHIO NATURAL 104 6TH ST. S.W. CANTON, OH 44702 (330) 456-2454

THE CONTRACTOR SHALL NOTIFY ALL UTILITIES 48 HOURS PRIOR TO WORK.

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE SHOWN AT APPROXIMATE LOCATIONS AND WHERE OBTAINED AS REQUIRED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 OF THE OHIO REVISED CODE

ODUPS – 1-800-362-2764
ODUPUPS – 1-800-925-0988

NOTIFICATION OF SAFETY FORCES AND BUS GARAGES

THE CONTRACTOR SHALL NOTIFY ALL AGENCY LISTED BELOW AT LEAST 48 HOURS IN ADVANCE OF ANY STREET CLOSING OR TRAFFIC CHANGE.

MASSILLON SAFETY SERVICE 330-830-1702	MASSILLON FIRE DEPARTMENT 330-833-1053	PERRY TOWNSHIP HALL 330-833-2141	NORTH LAWRENCE FIRE DEPT. 330-832-6347
TUSCARAWAS TOWNSHIP HALL 330-832-4337	JACKSON FIRE DEPARTMENT 330-832-1553	MASSILLON POLICE DEPARTMENT 330-830-1735	MASSILLON SCHOOL BUS GARAGE 330-830-1849
JACKSON TOWNSHIP HALL 330-832-7416	PERRY FIRE DEPARTMENT 330-478-5121	JACKSON POLICE DEPARTMENT 330-497-7440	JACKSON SCHOOL BUS GARAGE 330-830-8042
PERRY POLICE DEPARTMENT 330-833-3865	PERRY SCHOOL BUS GARAGE 330-477-1300	STARK COUNTY SHERIFF 330-430-3887	TUSCARAWAS SCHOOL BUS GARAGE 330-837-7805
SARTA 330-454-5333			

QUANTITIES

QUANTITIES ARE INDICATED FOR COMPARISON OF BIDS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY QUANTITIES BEFORE ORDERING MATERIALS. VARIATIONS FROM THE PLAN QUANTITIES SHALL BE APPROVED BY THE CITY OF MASSILLON ENGINEER BEFORE MATERIAL ORDERS ARE PLACED. MATERIALS REJECTED DUE TO INCOMPATIBILITY BETWEEN ORDERED QUANTITIES AND FIELD CONDITIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

CONSTRUCTION SPECIFICATIONS & STANDARDS

ALL CONSTRUCTION IS TO BE COMPLETED ACCORDING TO THE CURRENT CITY OF MASSILLON SPECIFICATIONS AND STANDARDS, AND THE LATEST EDITION OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS. WHEN A CONFLICT ARISES BETWEEN THE CITY OF MASSILLON AND ODOT'S STANDARDS, THE MORE STRINGENT STANDARD WILL BE USED AT THE DISCRETION OF THE CITY OF MASSILLON ENGINEER. THE CONTRACTOR SHALL FOLLOW ALL OSHA AND ADA REGULATIONS AND REQUIREMENTS.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE CONTRACTOR SHALL PROVIDE FOR THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

PROFILE AND ALIGNMENT

THE PROPOSED PAVEMENT RESURFACING SHALL FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT. THE PROPOSED ASPHALT CONCRETE OVERLAY SHALL BE AS SHOWN ON THE TYPICAL SECTIONS.

GRADING AND FILLING OPERATIONS

THE PLACEMENT OF COMPACTED AGGREGATE SHALL NOT EXTEND PAST THE EXISTING GRADED SHOULDERS, NO EXCAVATION, GRADING, OR FILLING OPERATIONS SHALL BE PERFORMED IN ANY WETLANDS OR STREAMS, UNLESS THE REQUIRED STATE AND/OR FEDERAL PERMITS HAVE BEEN OBTAINED IN ACCORDANCE WITH ALL APPLICABLE STATE AND/OR FEDERAL LAWS AND REGULATIONS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR STORE EQUIPMENT AND/OR MATERIALS IN ANY WETLANDS OR STREAMS.

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY HAS BEEN INCLUDED IN THE BID FORM FOR ITEM201SPEC. CLEARING AND GRUBBING. THIS ITEM INCLUDE ALL PROVISIONS AS SET FORTH IN THE 2008 ODOT SPECIFICATIONS. REMOVAL ITEMS MAY INCLUDE TREES, STUMPS, AND BRUSH AS DETERMINED BY THE CITY ENGINEER.

ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201SPEC. CLEARING AND GRUBBING.

PRESERVATION OF PROPERTY CORNERS AND SURVEY MARKERS

THE CONTRACTOR SHALL PRESERVE ALL CORNERSTONES, IRON PINS, CONCRETE MONUMENTS AND ANY TYPE OF LAND MONUMENT. HE SHALL HAVE ALL LAND MONUMENTS IN THE PROMINITY OF THE WORK REFERENCED. HE SHALL REPLACE DESTROYED OR DAMAGED MONUMENTS AND SHAL FURNISH A CERTIFICATION BY AN OHIO REGISTERED SURVEYOR THAT THE MONUMENTS HAVE BEEN RESTORED.

ACCESSIBILITY TO PRIVATE PROPERTY

ACCESS TO ALL DRIVEWAYS AND PARKING AREAS WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED AT ALL TIMES. THE TRENCH SHALL BE BACKFILLED AT THE END OF EACH WORK DAY TO PROVIDE ACCESS. THE CONTRACTOR MUST NOTIFY EACH PROPERTY OWNER AT LEAST 24 HOURS IN ADVANCE OF CUTTING THEIR DRIVEWAY.

REMOVAL AND RELOCATION OF EXISTING UTILITIES

THE CONTRACTOR IS REQUIRED TO COOPERATE WITH EACH RESPECTIVE UTILITY OWNER FOR THE REMOVAL AND RELOCATION OF ANY AND ALL UTILITIES THAT CREATE A CONFLICT WITH CONSTRUCTION OF THE PROJECT.

ITEM 623 – CONSTRUCTION STAKING

CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT. THIS WORK IS TO BE UNDER ITEM 623 CONSTRUCTION STAKING.

CONDITIONS OF WORK

ALL WORK PERFORMED UNDER THIS CONTRACT SHALL COMPLY WITH THE U.S. DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ACT, STATE, COUNTY, AND CITY OF MASSILLON LAWS AND REGULATIONS. ALL WORK, AT ALL TIMES SHALL BE SUBJECT TO OBSERVATION BY THE CITY OF MASSILLON ENGINEER AND/OR HIS REPRESENTATIVE. ALL WORK SHALL COMPLY WITH THE CONDITIONS OF THE CONTRACT DOCUMENTS AND OHIO EPA, AND STANDARDS OF THE CITY OF MASSILLON. ALL ELECTRICAL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE, AND APPLICABLE CITY, COUNTY, STATE AND FEDERAL CODES.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN SAFE AND SATISFACTORY ACCESS TO ALL ADJUTING PROPERTIES TO THE PROJECT SITE. ADJACENT ROADS SHALL BE MAINTAINED AND KEPT CLEAN OF MUD AND OTHER DEBRIS THAT MAY BE CAUSED BY TRAFFIC EXITING THE WORK SITE. THE CONTRACTOR SHALL COORDINATE AND PROVIDE FOR ALL NECESSARY TRAFFIC CONTROL. TRAFFIC CONTROL SHALL FOLLOW THE MORE STRINGENT GUIDELINES OF THE CITY OF MASSILLON OR ODOT AT THE DESCREATION OF THE CITY OF MASSILLON ENGINEER.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AND MAINTAIN FACILITIES FOR A CONSTRUCTION OFFICE, EMPLOYEE PARKING, AND EMPLOYEE SANITARY FACILITIES, ON STREET PARKING WILL NOT BE PERMITTED. THE CONTRACTOR SHALL PROVIDE FOR THE LAWFUL OFF-SITE DISPOSAL OF DEMOLITION DEBRIS AND CONSTRUCTION WASTE.

EXISTING DATA

EACH CONTRACTOR SHALL VISIT THE SITE PERSONALLY TO ASCERTAIN THE NATURE OF THE WORK AND BECOME THOROUGHLY FAMILIARIZED WITH THE SITE PRIOR TO BID SUBMISSION. EXISTING STRUCTURES, GRADES, PIPING, ETC. ARE INDICATED IN APPROXIMATE LOCATION ON THE PLAN. INFORMATION SHOWN IS NOT GUARANTEED TO BE CORRECT AND COMPLETE. THE DATA SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR. THE EXISTENCE OF FACILITIES ABOVE OR BELOW GROUND, WHICH MAY NOT BE SHOWN, WILL NOT BE A BASIS FOR A CLAIM FOR EXTRA WORK.

EXISTING UNDERGROUND UTILITIES SHOWN ARE RECORDS PROVIDED BY UTILITY COMPANIES AND ARE APPROXIMATE ONLY. SERVICE LATERALS ARE NOT SHOWN.

IT IS THE RESPONSIBILITY OF CONTRACTOR TO NOTIFY THE CITY, PRIOR TO BID OPENING OF NON-CONFORMING OR CONFLICTING INFORMATION.

PRESERVATION OF EXISTING UTILITY SERVICES

ANY EXISTING WATER LINE, SANITARY SEWER, STORM SEWER, GAS LINE OR OTHER UTILITY IN OR OUTSIDE OF THE CONSTRUCTION LIMITS, DAMAGED DURING CONSTRUCTION OF THE PROPOSED PROJECT SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.

CONTRACTOR AVAILABILITY

THE CONTRACTOR SHALL SUPPLY THE ENGINEER WITH A 24 HOUR PHONE NUMBER WHERE THE CONTRACTOR SHALL BE AVAILABLE FOR EMERGENCIES.

PRESERVATION OF PRIVATE PROPERTY

THE CONTRACTOR SHALL PERFORM WORK AS TO NOT DISTURB, DAMAGE OR DESTROY ANY TELEPHONE OR POWER POLES, SIGNS, LANDSCAPING ITEMS, ETC.. ANY ITEM DAMAGED OR DESTROYED SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE AND ANY ITEM DISTURBED OR IN CONFLICT WITH THE WORK TO BE PERFORMED SHALL BE REMOVED AND RESET AT THE CONTRACTOR'S EXPENSE. PRIOR ENGINEER APPROVAL IS REQUIRED BEFORE ANY OF THE ABOVE ITEMS ARE PERFORMED.

RESTORATION

FOR SANITARY SEWER INSTALLED, TESTED, AND ACCEPTED UP TO MAY 15TH OF ANY CALENDAR YEAR, RESTORATION SHALL BE COMPLETE BY JUNE 30th OF THAT YEAR. FOR INSTALLATION OF SANITARY SEWER TESTED AND ACCEPTED FROM MAY 15th TO SEPTEMBER 30th OF ANY CALANDAR, YEAR RESTORATION SHALL BE COMPLETE BY NOVEMBER 15th OF THAT CALENDAR YEAR. FOR SANITARY SEWER INSTALLED, TESTED, AND ACCEPTED AFTER NOVEMBER 15TH OF ANY CALENDAR YEAR, RESTORATION SHALL BE COMPLETE BY MAY 15th OF THE NEXT CALENDAR YEAR.

ALL SOIL AREAS DISTURBED BY THE CONTRACTOR SHALL BE TOPSOILED, SEEDED AND MULCHED. COST TO BE INCLUDED IN THE UNIT PRICE BID FOR EACH ITEM OF AFFECTED WORK. TOPSOIL, SEEDING AND MULCHING SHALL NOT BE A SEPARATE PAY ITEM. THIS INCLUDES BACKFILLING, SEEDING AND MULCHING ALONG THE EDGE OF ALL PAVEMENT RESTORATION.

PAVEMENT GROSSINGS WILL RECEIVE TYPE C PAVEMENT REPLACEMENT WITH FULL WIDTH PAVEMENT OVERLAY

CONTRACTOR TO REPLACE ALL PAVEMENT MARKINGS. COST TO BE INCLUDED IN THE UNIT PRICE BID FOR PAVEMENT.

CONTRACTOR TO USE HOT APPLIED JOINT CRACK SEALER ON ASPHALT PAVEMENT AT ALL ENDS AND INTERSECTIONS.

ALL TRENCHES IN ROAD RIGHT OF WAY WILL RECEIVE FULL DEPTH PREMIUM GRANULAR BACKFILL

CONTRACTOR'S EQUIPMENT – OPERATION STORAGE

A QUALIFIED FLAGGER SHALL BE EMPLOYED WHERE THE CONTRACTOR'S EQUIPMENT MUST MERGE WITH THE TRAFFIC STREAM. THE CONTRACTOR'S EQUIPMENT SHALL BE EQUIPPED WITH AT LEAST ONE AMBER FLASHING LIGHT. THE EQUIPMENT SHALL BE STORED AT A STORAGE AREA OUTSIDE THE R/W. THE LOCATION OF WHICH SHALL HAVE PRIOR APPROVAL OF THE ENGINEER. WHEN PARKING ALONG THE HIGHWAY THE EQUIPMENT SHALL BE PLACED AND DELINEATED AS PER 614.03. NO EQUIPMENT SHALL BE PARKED IN THE MEDIAN OF THE HIGHWAY. ADEQUATE BARRICADE AND LIGHTS SHALL BE PLACED ON THE PAVEMENT SIDE OF THE EQUIPMENT TO IDENTIFY THE LIMITS OF THE EQUIPMENT. ALL OTHER EQUIPMENT, INCLUDING PRIVATE VEHICLES, SHALL BE STORED AT THE APPROVED CONTRACTOR'S STORAGE AREA. NO EQUIPMENT SHALL BE PARKED ON PRIVATE PROPERTY UNLESS PRIOR APPROVAL OF THE OWNER AND THE PROJECT ENGINEER/SUPERVISOR HAS BEEN GRANTED.

ITEM 604SPEC – SANITARY SIPHON CHAMBER REHAB.

THIS WORK CONSISTS OF REPLACING, REPAIRING, PATCHING, AND RECOATING OF EXISTING SANITARY SIPHON CHAMBER. ALL MECHANICAL PARTS SHALL BE REPAIRED OR REPLACED TO WORK PROPERLY. ALL RAINING AND STEPS SHALL BE REPLACED AND PAINTED. ALL CONCRETE AND BRICK WALLS, FLOORS, AND SLABS SHALL BE PATCHED OR REPOINTED, EXTERIOR WALLS SHALL BE PAINT MORTAR. ACCESS HATCHES AND UDS SHALL BE REPLACED WITH NEW SAME SIZE AND LOCKABLE HATCHES.

NW NE SW SE		V E N E R T A L	
0 0.5 1		0 0.5 1	
HORIZONTAL SCALE IN FEET		HORIZONTAL SCALE IN FEET	
CHECKED BY: KAD		DATE: MAY, 2012	
DRAWN BY: FPW		DATE: MAY, 2012	
REVISIONS:		REVISIONS:	
DATE	DESCRIPTION	DATE	DESCRIPTION

Levee Infrastructure Improvement Project

Genrol Notes
City of Massillon
Stark County, Ohio

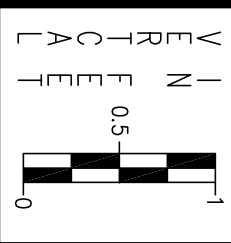
Kathy Catazaro-Perry, Mayor

Massillon
City of Champions

DRAWING NAME:
Levee project.dwg

CITY NUMBER:
101.001

2 / 18

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Aug, 2012
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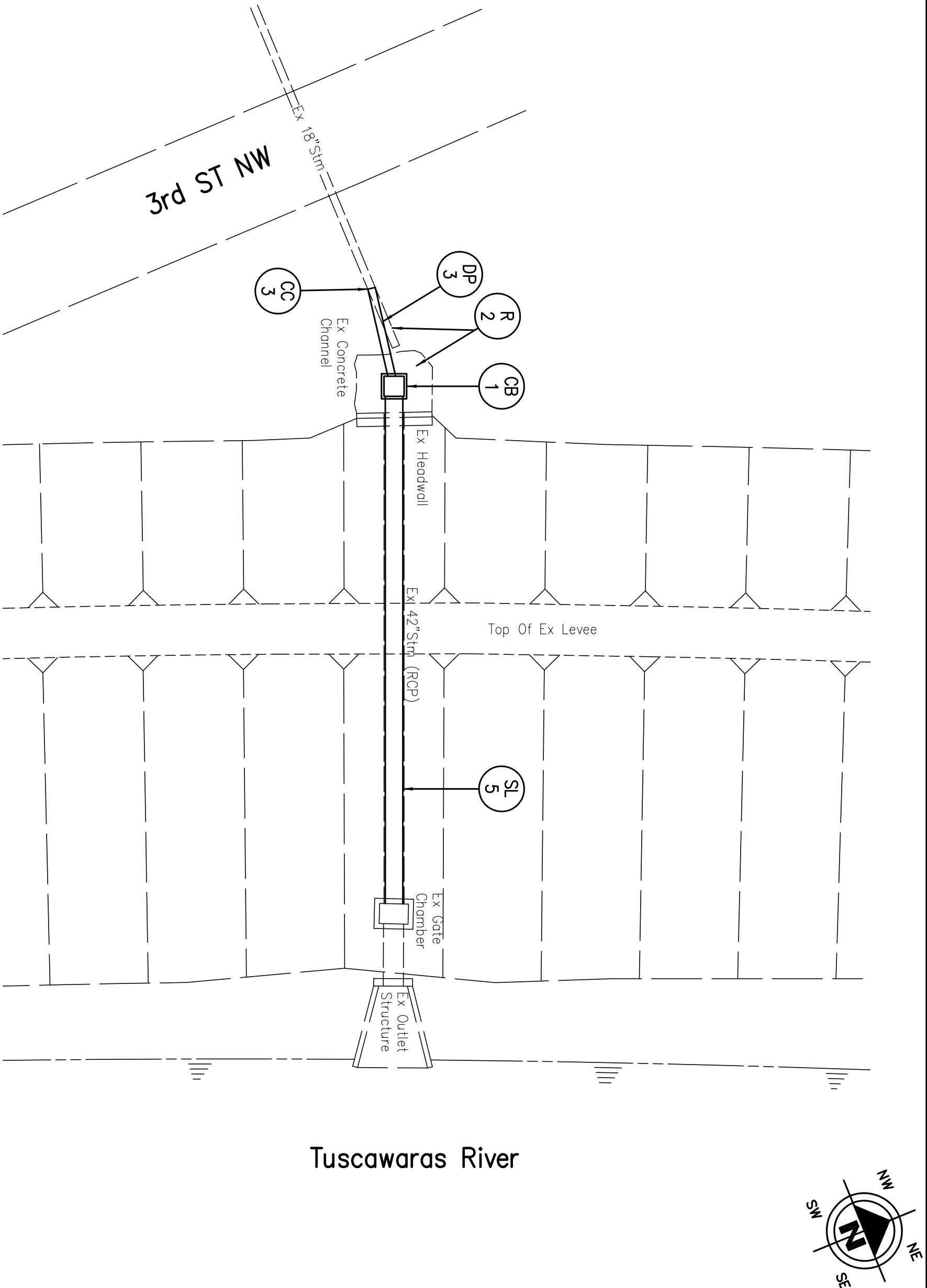
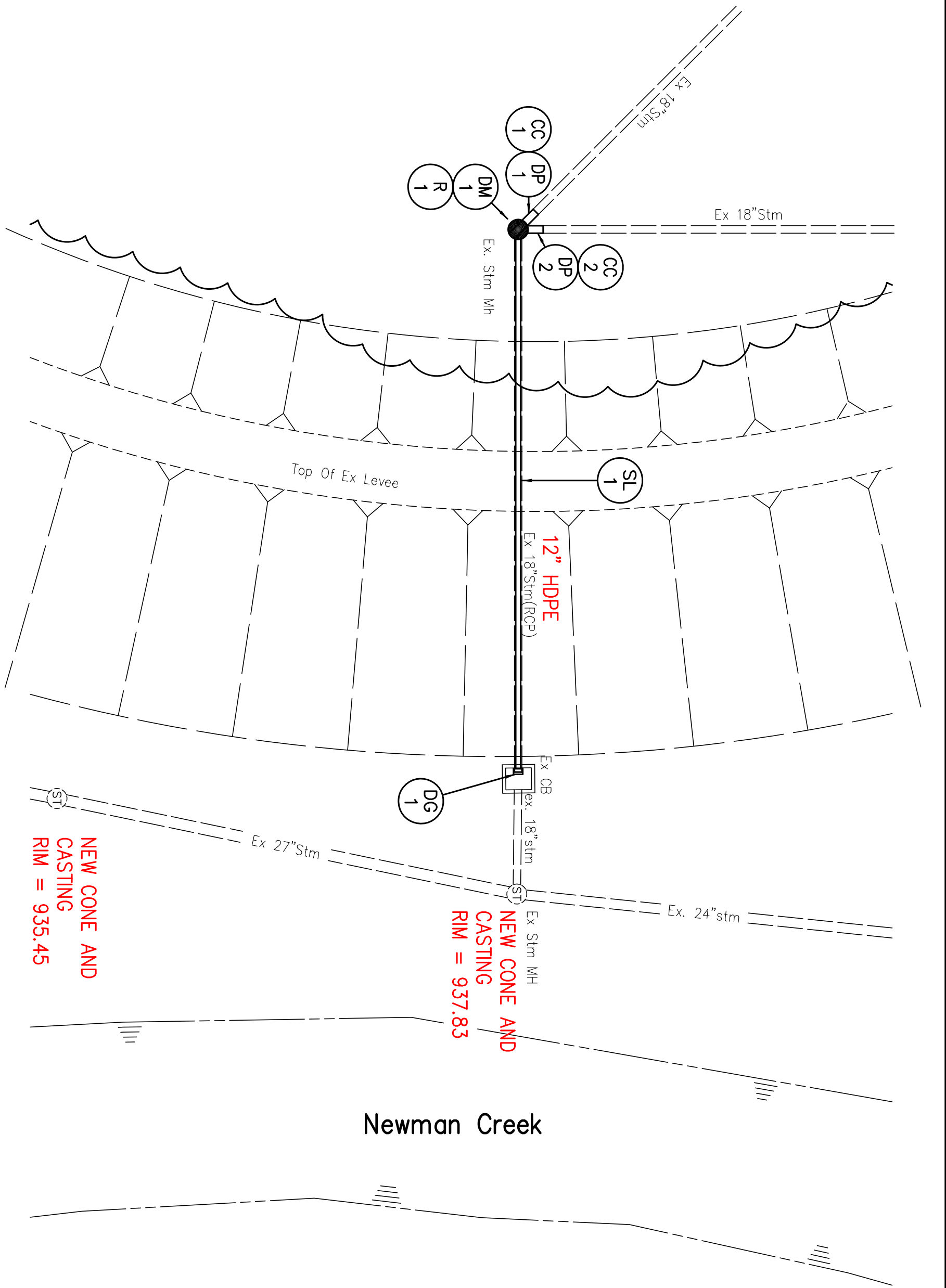
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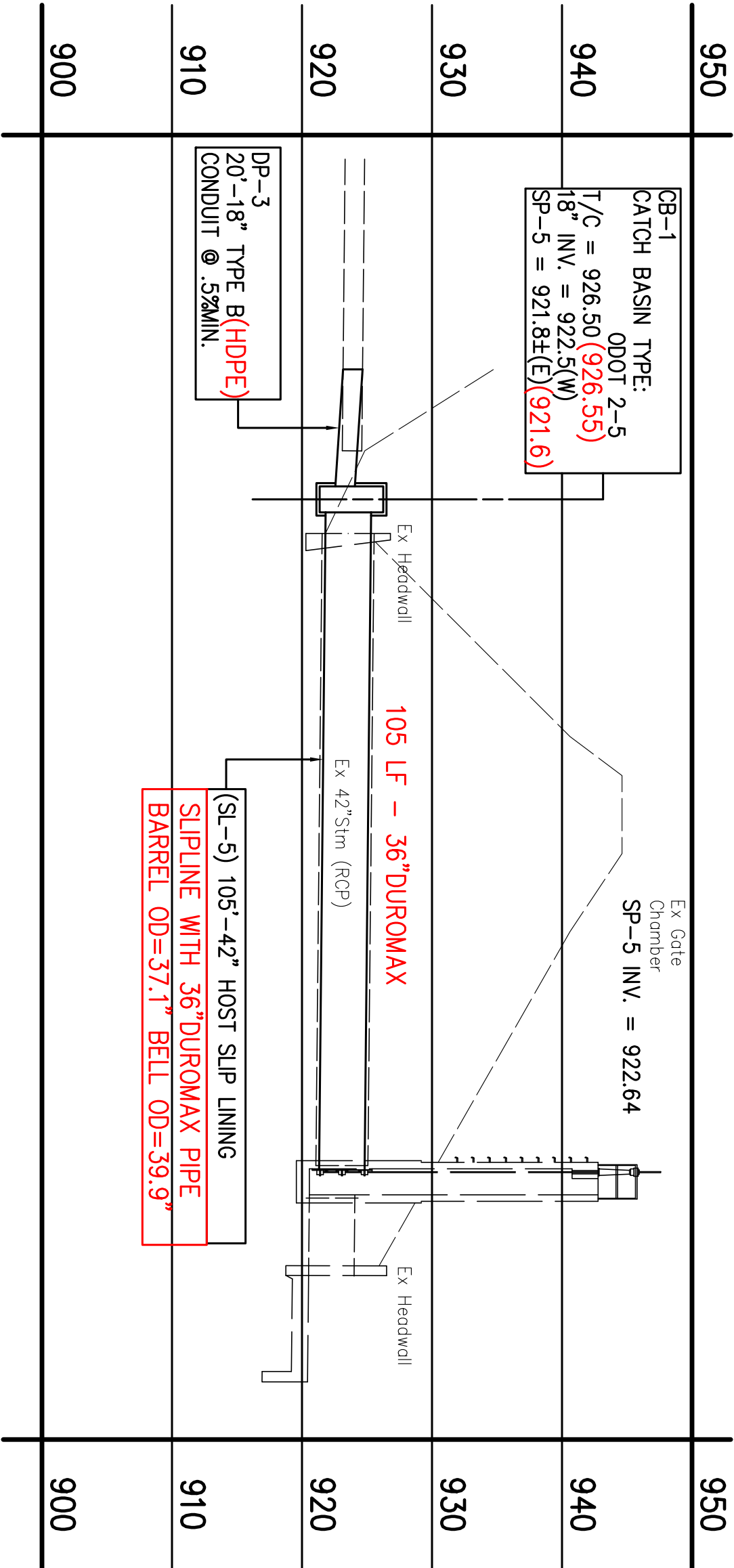
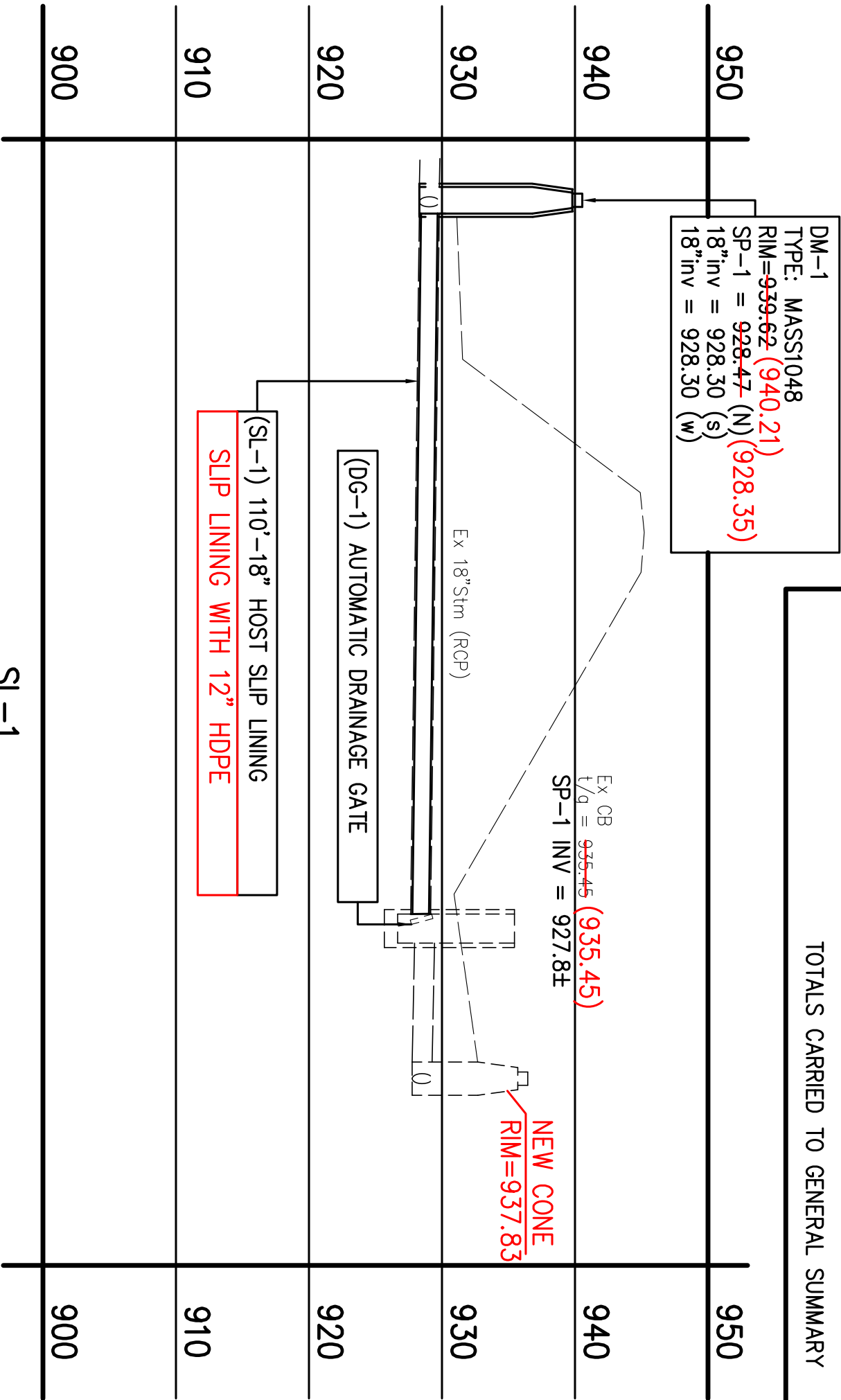


SOUTH SIDE OF NEWMAN CREEK 200' WEST OF DBL R.R. TRACKS, 783' WEST OF 3RD STREET NW

ON 3RD ST 960' NORTH OF CHERRY AT HIGH TENSION CROSSING RIVER.

REF. No.	COORDINATE			202	202	202	603	603	604	604	810	810	810
	FROM	TO	TO										
CB-1	417607.22	2236262.17								1			
CC-1	417272.28	2236347.78					1						
CC-2	417275.18	2236345.28					1						
CC-3	417590.13	2236272.55											
DP-1	417272.28	2236347.78	417276.75				5						
DP-2	417275.18	2236345.28	417276.75				5						
DP-3	417590.13	2236272.55	417607.22				20						
DM-1	417276.75	2236350.03							1				
DG-1	417381.16	2236315.39								1			
R-1	417607.22	2236262.17		1	5								
R-2	417276.75	2236350.03	417381.16		5	1						110	
SL-1	417276.75	2236350.03											105
SL-5	417607.22	2236262.17	417706.92										
TOTALS CARRIED TO GENERAL SUMMARY				1	10	1	3	30	1	1	1	110	105

NOTE:
DG-1 SHALL BE A NEENAH R-505-SF OR APPROVED EQUAL SIZE SHALL BE DETERMINED BY LINER DIAMETER



VERTICAL SCALE

0 5 10

HORIZONTAL SCALE IN FEET

0 10 20

CHECKED BY:

KAD

DATE:

MAY, 2012

DRAWN BY:

FPW

DATE:

MAY, 2012

REVISIONS:

DATE	DESCRIPTION
1/2015	AS-BUILTS

Levee Infrastructure Improvement Project

SL-1, SL-5 Plan and Profile

City of Massillon
Stark County, Ohio

Kathy Catazaro-Perry, Mayor

Massillon
City of Champions

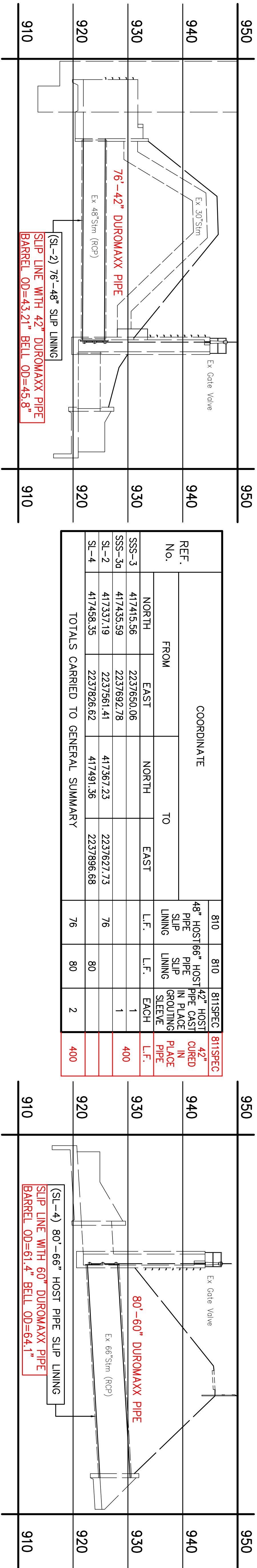
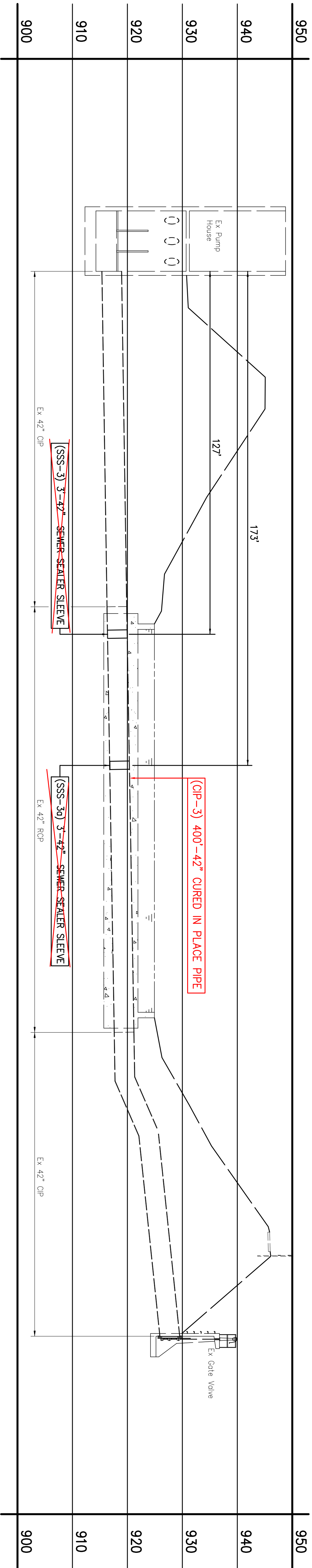
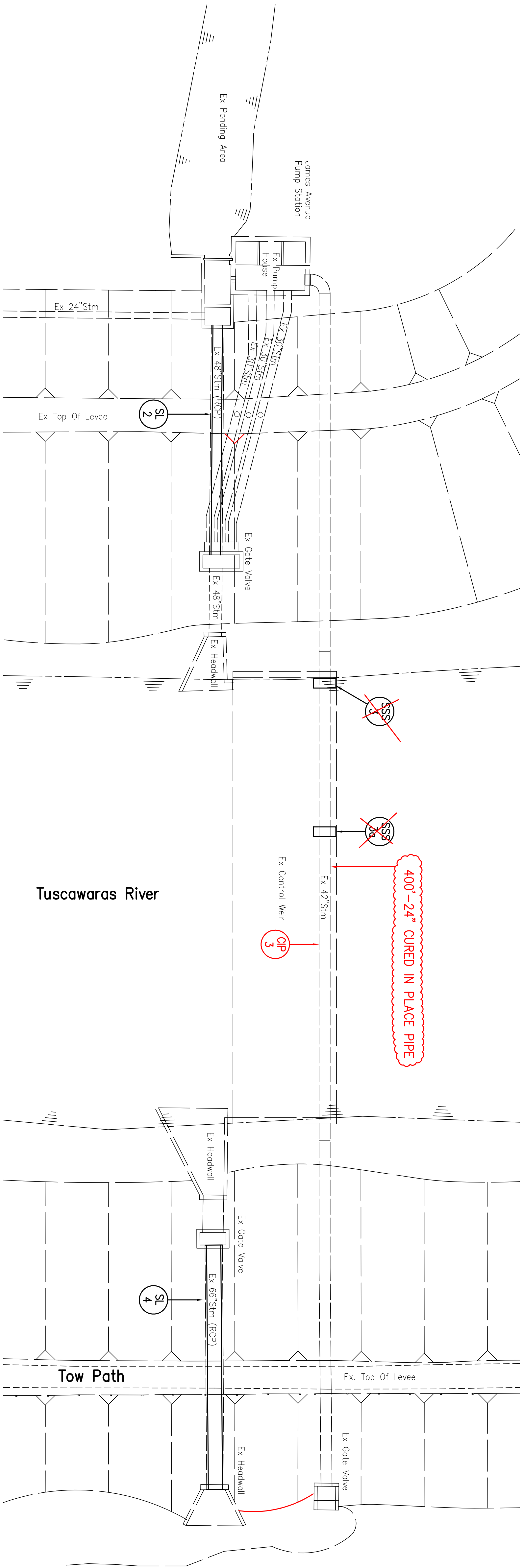
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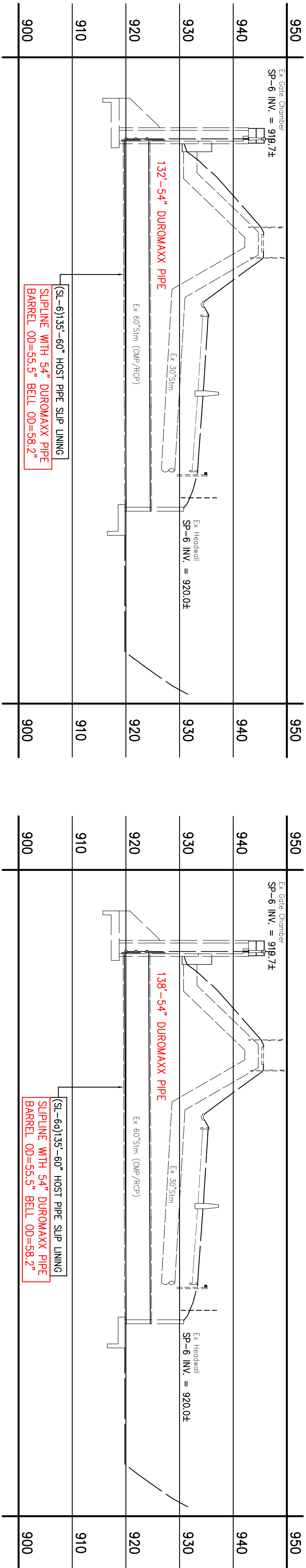
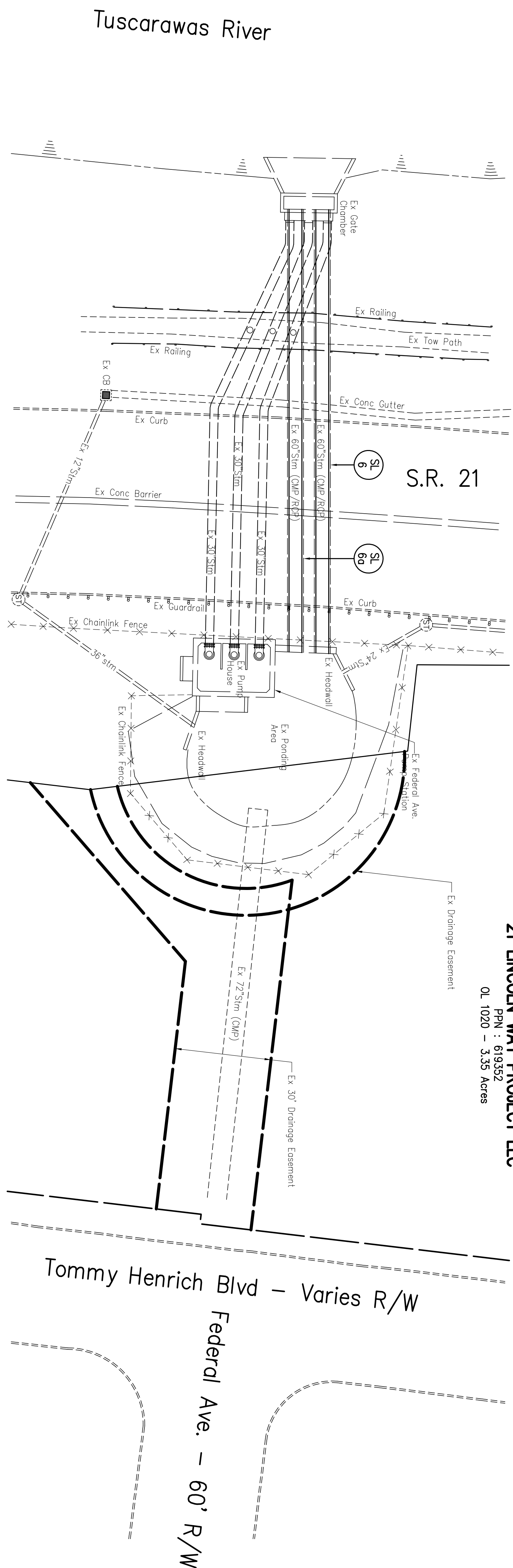
Levee/Imp/1.DWG

CITY NUMBER:

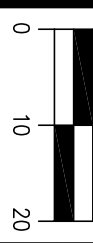
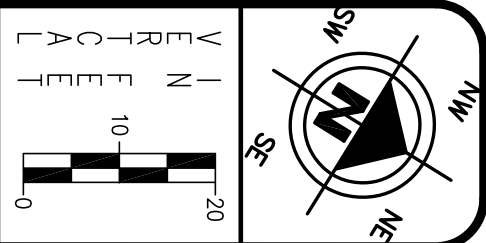
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5/18





COORDINATE					810	
					60" HOST PIPE SLIP LINING	
REF. No.	FROM		TO		L.F.	
	NORTH	EAST	NORTH	EAST		
SL-6	412891.24	2237519.22	412956.15	2237640.97	135	132
SL-6a	412883.82	2237523.03	412948.63	2237644.66	135	138
TOTALS CARRIED TO GENERAL SUMMARY					270	



HORIZONTAL
SCALE IN FEET

CHECKED BY:
KAD

DATE:
Aug. 2012

DRAWN BY:
FPW

DATE:
Aug. 2012

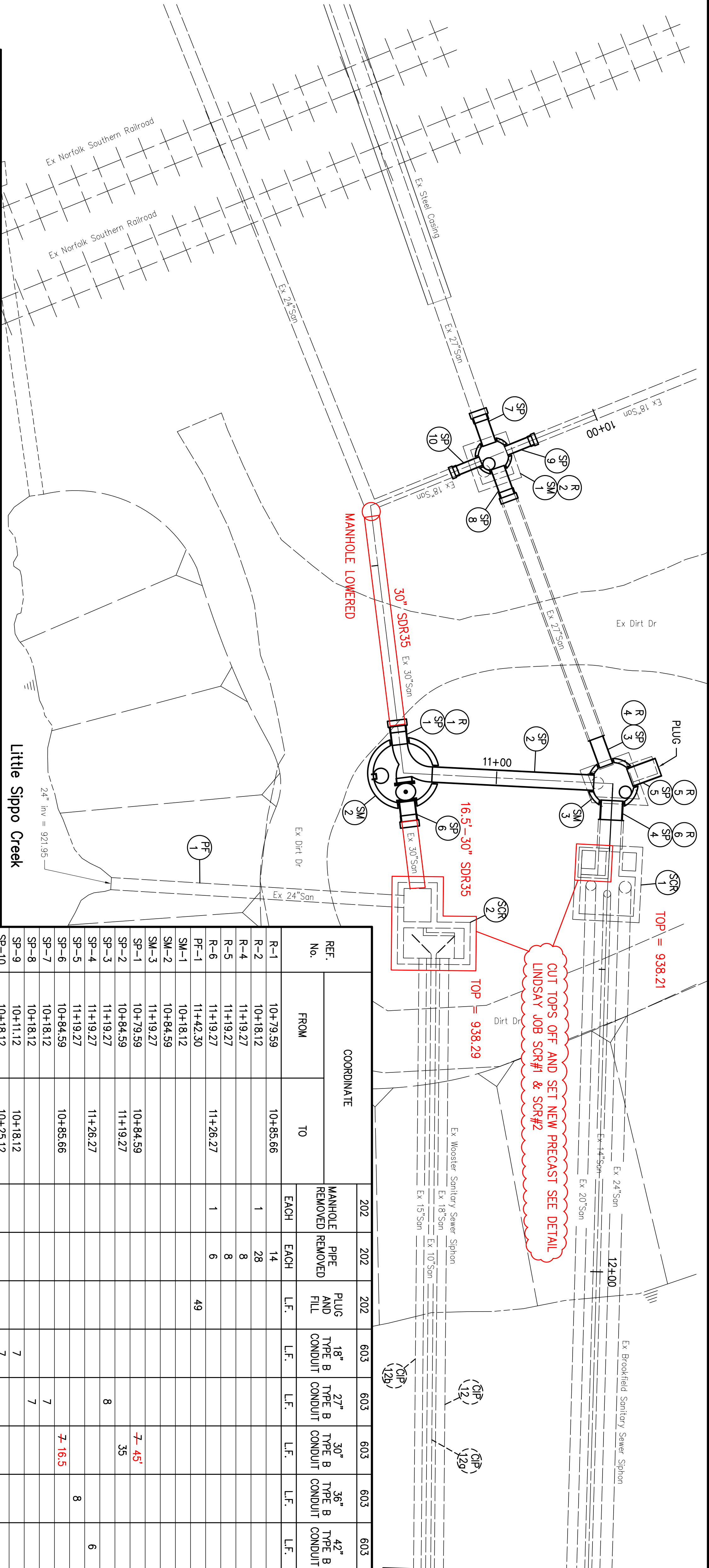
REVISIONS:

DATE	DESCRIPTION
1/2015	AS-BUILT

Levee Infrastructure Improvement Project
SL-6, SL-6a Plan and Profile
City of Massillon
Stark County, Ohio

Kathy Catazaro-Perry, Mayor
Massillon
City of Champions

DRAWING NAME:
LeveeSL-6-6a.dwg
CITY NUMBER:
101001
7/18



PROP. GRADE												
950	SM-1		TYPE: MASS 1048AGS(5'Ø)		STA. 10+18.24		RM = 936.90 939.25		27' INV. = 922.62 922.60		18' INV. = 922.62 922.60	
	SM-2		TYPE: MASS 1048AGS(7'Ø)		STA. 10+84.59		RM = 936.54 936.23		30' INV. = 922.27(N) 922.21		27' INV. = 922.27(W) 922.21	
940	SM-3		TYPE: MASS 1048AGS(7'Ø)		STA. 11+19.27		RM = 936.54 935.70		30' INV. = 922.10(S)		36' INV. = 921.85(N)	
	SM-4		TYPE: MASS 1048AGS(7'Ø)		STA. 11+26.27		RM = 936.54 935.70		27' INV. = 922.45(W)		42' INV. = 921.46(E) 921.40	
930	SM-5		TYPE: MASS 1048AGS(7'Ø)		STA. 11+33.27		RM = 936.54 935.70		30' INV. = 922.10(S)		36' INV. = 921.85(N)	
	SM-6		TYPE: MASS 1048AGS(7'Ø)		STA. 11+40.27		RM = 936.54 935.70		27' INV. = 922.45(W)		42' INV. = 921.46(E) 921.40	
920	SM-7		TYPE: MASS 1048AGS(7'Ø)		STA. 11+47.27		RM = 936.54 935.70		30' INV. = 922.10(S)		36' INV. = 921.85(N)	
	SM-8		TYPE: MASS 1048AGS(7'Ø)		STA. 11+54.27		RM = 936.54 935.70		27' INV. = 922.45(W)		42' INV. = 921.46(E) 921.40	
910	SM-9		TYPE: MASS 1048AGS(7'Ø)		STA. 11+61.27		RM = 936.54 935.70		30' INV. = 922.10(S)		36' INV. = 921.85(N)	
	SM-10		TYPE: MASS 1048AGS(7'Ø)		STA. 11+68.27		RM = 936.54 935.70		27' INV. = 922.45(W)		42' INV. = 921.46(E) 921.40	
900	SM-11		TYPE: MASS 1048AGS(7'Ø)		STA. 11+75.27		RM = 936.54 935.70		30' INV. = 922.10(S)		36' INV. = 921.85(N)	
	SM-12		TYPE: MASS 1048AGS(7'Ø)		STA. 11+82.27		RM = 936.54 935.70		27' INV. = 922.45(W)		42' INV. = 921.46(E) 921.40	
890	SM-13		TYPE: MASS 1048AGS(7'Ø)		STA. 11+89.27		RM = 936.54 935.70		30' INV. = 922.10(S)		36' INV. = 921.85(N)	
	SM-14		TYPE: MASS 1048AGS(7'Ø)		STA. 11+96.27		RM = 936.54 935.70		27' INV. = 922.45(W)		42' INV. = 921.46(E) 921.40	

EXIST. GRADE												
936.88	SP-1		7-18" SDR-35 CONDUIT @ EXIST.		Sta. 10+18.24		RM = 936.90 939.25		27' INV. = 922.62 922.60		18' INV. = 922.62 922.60	
	SP-2		7-18" SDR-35 CONDUIT @ EXIST.		Sta. 10+84.59		RM = 936.54 936.23		30' INV. = 922.27(N) 922.21		27' INV. = 922.27(W) 922.21	
936.91	SP-3		7-27" SDR-35 CONDUIT @ EXIST.		Sta. 10+84.59		RM = 936.54 936.23		30' INV. = 922.27(N) 922.21		27' INV. = 922.27(W) 922.21	
	SP-4		7-27" SDR-35 CONDUIT @ EXIST.		Sta. 10+84.59		RM = 936.54 936.23		30' INV. = 922.27(N) 922.21		27' INV. = 922.27(W) 922.21	
935.50	SP-5		7-27" SDR-35 CONDUIT @ EXIST.		Sta. 10+84.59		RM = 936.54 936.23		30' INV. = 922.27(N) 922.21		27' INV. = 922.27(W) 922.21	
	SP-6		7-27" SDR-35 CONDUIT @ EXIST.		Sta. 10+84.59		RM = 936.54 936.23		30' INV. = 922.27(N) 922.21		27' INV. = 922.27(W) 922.21	
935.55	SP-7		7-27" SDR-35 CONDUIT @ EXIST.		Sta. 10+84.59		RM = 936.54 936.23		30' INV. = 922.27(N) 922.21		27' INV. = 922.27(W) 922.21	
	SP-8		7-27" SDR-35 CONDUIT @ EXIST.		Sta. 10+84.59		RM = 936.54 936.23		30' INV. = 922.27(N) 922.21		27' INV. = 922.27(W) 922.21	
935.10	SP-9		7-27" SDR-35 CONDUIT @ EXIST.		Sta. 10+84.59		RM = 936.54 936.23		30' INV. = 922.27(N) 922.21		27' INV. = 922.27(W) 922.21	
	SP-10		7-27" SDR-35 CONDUIT @ EXIST.		Sta. 10+84.59		RM = 936.54 936.23		30' INV. = 922.27(N) 922.21		27' INV. = 922.27(W) 922.21	
933.89	SP-11		7-27" SDR-35 CONDUIT @ EXIST.		Sta. 10+84.59		RM = 936.54 936.23		30' INV. = 922.27(N) 922.21		27' INV. = 922.27(W) 922.21	
	SP-12		7-27" SDR-35 CONDUIT @ EXIST.		Sta. 10+84.59		RM = 936.54 936.23		30' INV. = 922.27(N) 922.21		27' INV. = 922.27(W) 922.21	
930.46	SP-13		7-27" SDR-35 CONDUIT @ EXIST.		Sta. 10+84.59		RM = 936.54 936.23		30' INV. = 922.27(N) 922.21		27' INV. = 922.27(W) 922.21	
	SP-14		7-27" SDR-35 CONDUIT @ EXIST.		Sta. 10+84.59		RM = 936.54 936.23		30' INV. = 922.27(N) 922.21		27' INV. = 922.27(W) 922.21	
925.43	SP-15		7-27" SDR-35 CONDUIT @ EXIST.		Sta. 10+84.59		RM = 936.54 936.23		30' INV. = 922.27(N) 922.21		27' INV. = 922.27(W) 922.21	
	SP-16		7-27" SDR-35 CONDUIT @ EXIST.		Sta. 10+84.59		RM = 936.54 936.23		30' INV. = 922.27(N) 922.21		27' INV. = 922.27(W) 922.21	
920.81	SP-17		7-27" SDR-35 CONDUIT @ EXIST.		Sta. 10+84.59		RM = 936.54 936.23		30' INV. = 922.27(N) 922.21		27' INV. = 922.27(W) 922.21	
	SP-18		7-27" SDR-35 CONDUIT @ EXIST.		Sta. 10+84.59		RM = 936.54 936.23		30' INV. = 922.27(N) 922.21		27' INV. = 922.27(W) 922.21	
916.38	SP-19		7-27" SDR-35 CONDUIT @ EXIST.		Sta. 10+84.59		RM = 936.54 936.23		30' INV. = 922.27(N) 922.21		27' INV. = 922.27(W) 922.21	
	SP-20		7-27" SDR-35 CONDUIT @ EXIST.		Sta. 10+84.59		RM = 936.54 936.23		30' INV. = 922.27(N) 922.21		27' INV. = 922.27(W) 922.21	

10

5

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5

0

HORIZONTAL

SCALE IN FEET

DATE: MAY, 2012

DRAWN BY: FPW

CHECKED BY: KAD

DATE: MAY, 2012

REVISIONS:

DATE	DESCRIPTION
1/2015	AS-BUILT

N

NE

SE

SW

0

5

10

VERTICAL

SCALE IN FEET

Levee Infrastructure Improvement Project

Plan and Profile Sta. 10+00 to Sta. 12+50

City of Massillon
Stark County, Ohio

10/18

10/01

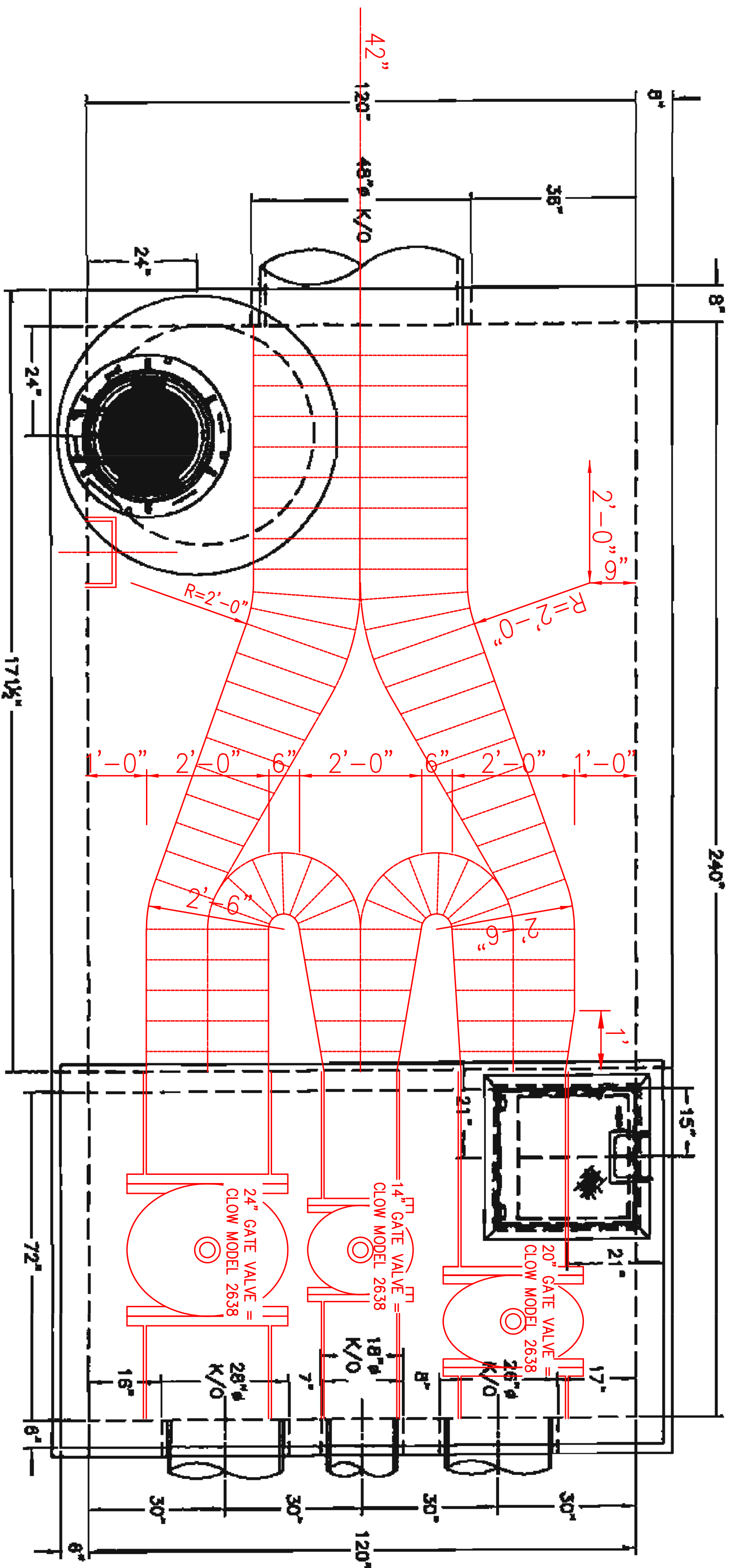
DRAWING NAME: Levee Infrastructure Improvement Project

CITY NUMBER: 10/01

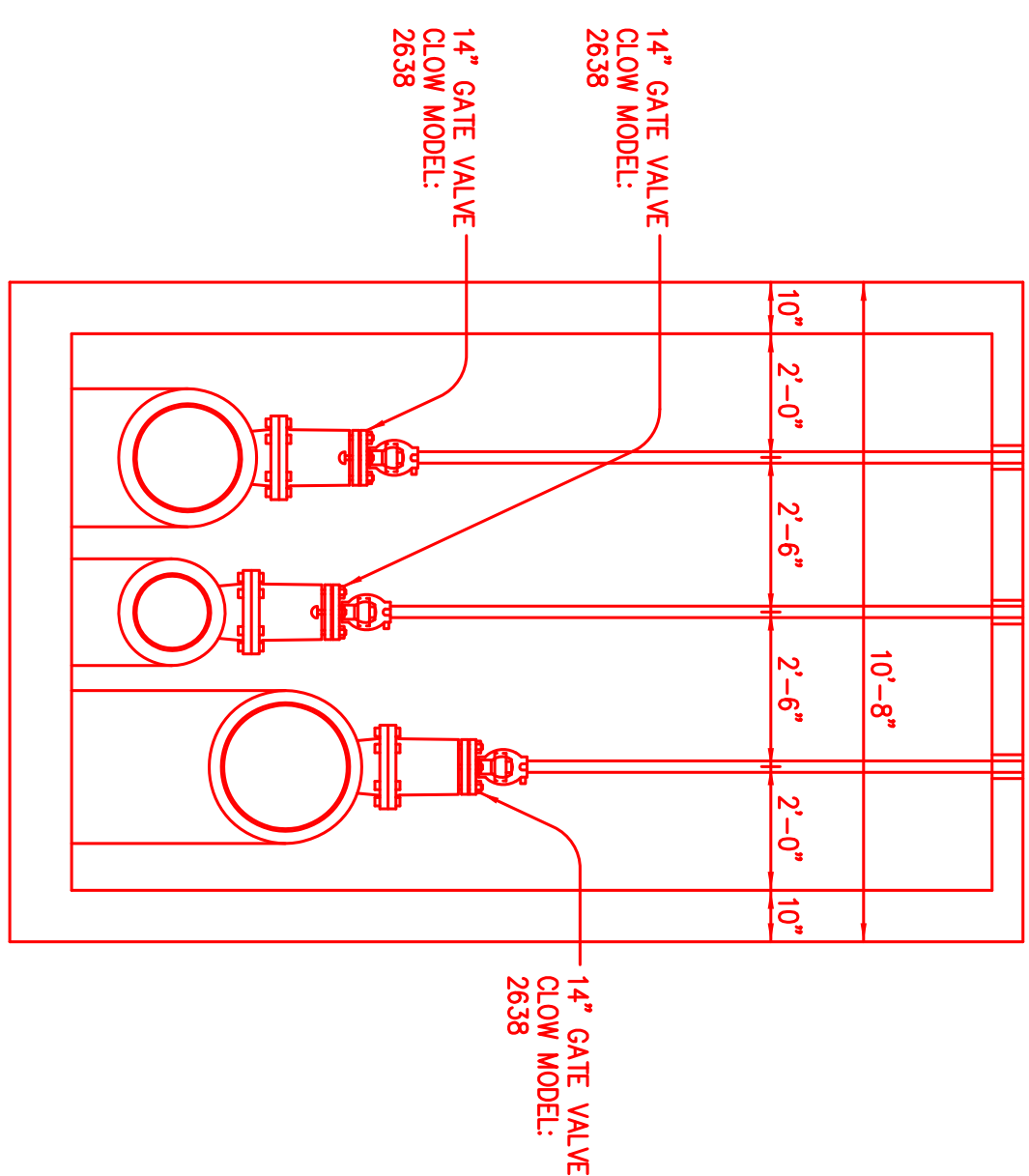
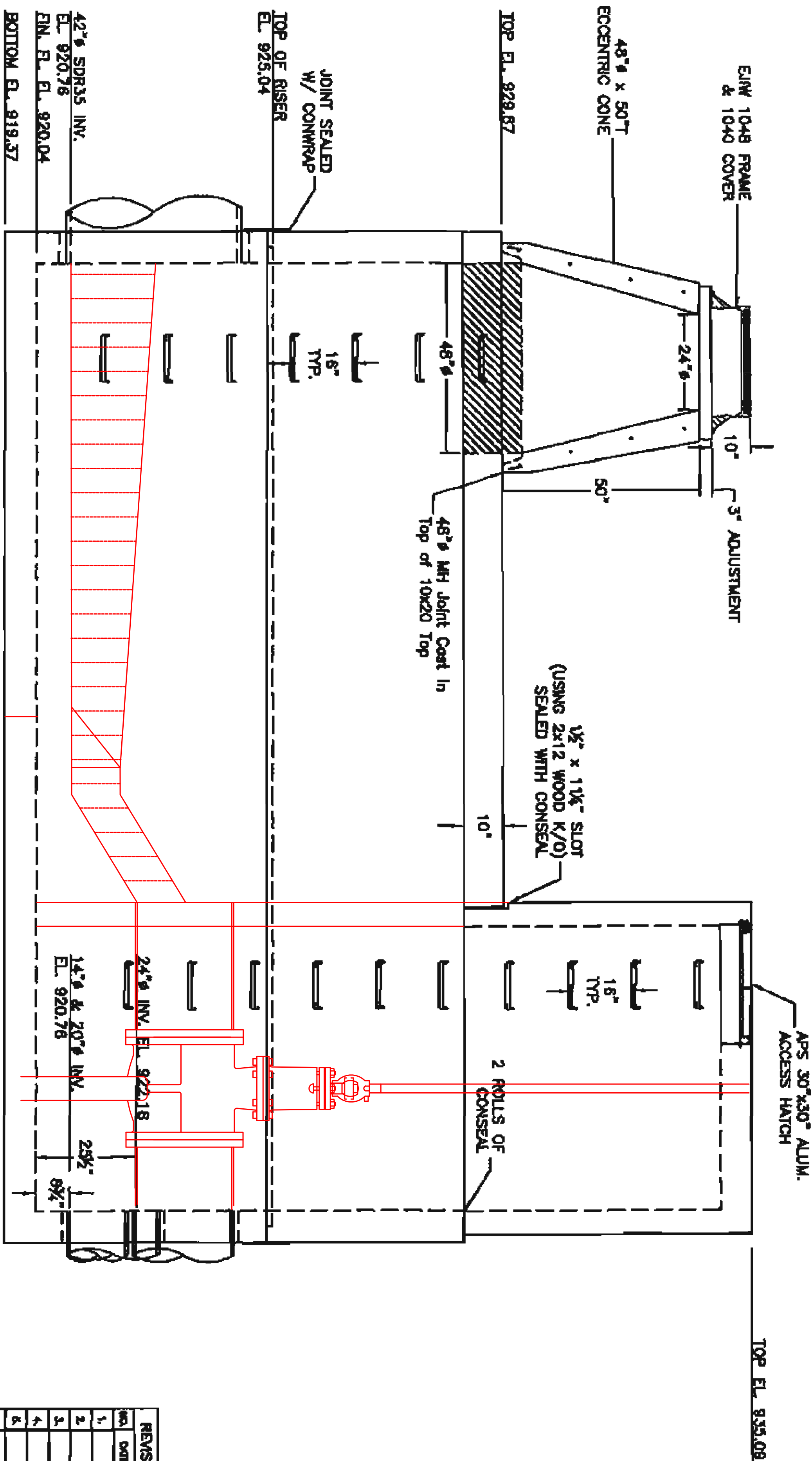
Kathy Catazaro-Perry, Mayor

Massillon

City of Champions



- NOTES:**
1. CONCRETE TO BE A MIN. OF 5,000 PSI AT 28 DAYS.
 2. VAULT WALLS TO BE DESIGNED FOR HS-20 LOADING.
 3. REINFORCING STEEL TO BE ASTM A615-A617 60,000 PSI YIELD STRENGTH.
 4. ALL JOINTS TO BE SEALED WITH CS-102 JOINT SEALANT, PRIMER, & CONWRAP.
 5. WEIGHTS:
BASE=27.89 TONS
RISER=12.60 TONS
LID=10.12 TONS
6x10=10.78 TONS



NO.	DATE	BY	REVISIONS
1.			
2.			
3.			
4.			
5.			
6.			

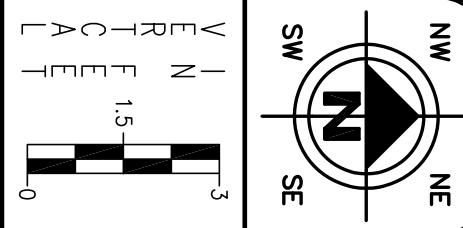
Wenger Excavating
MASSILLON LEVEE OUTLET CHAMBER

Kathy Catazaro-Perry, Mayor
Massillon
City of Champions

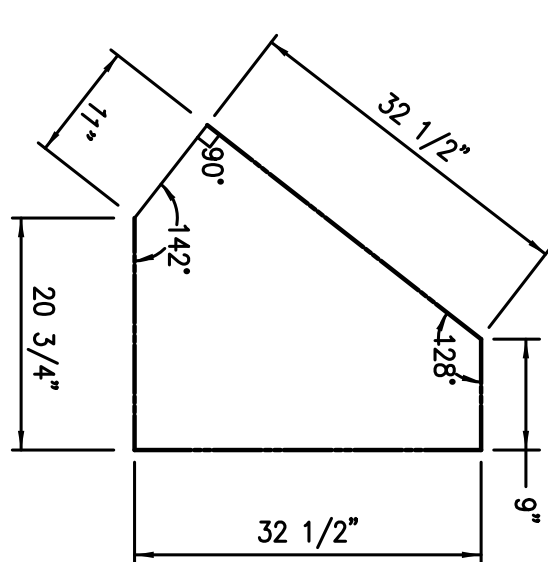
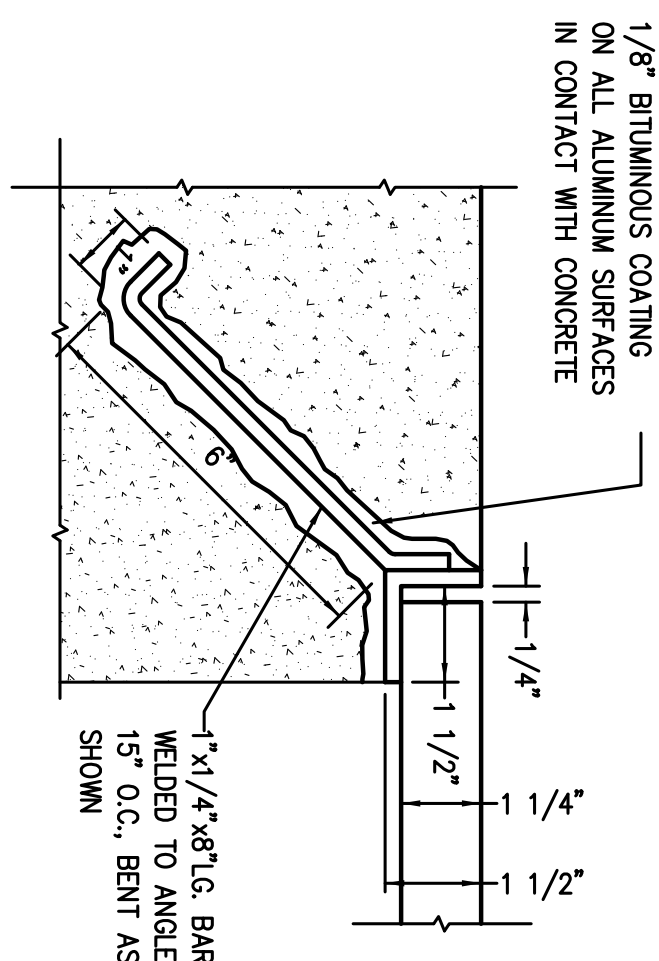
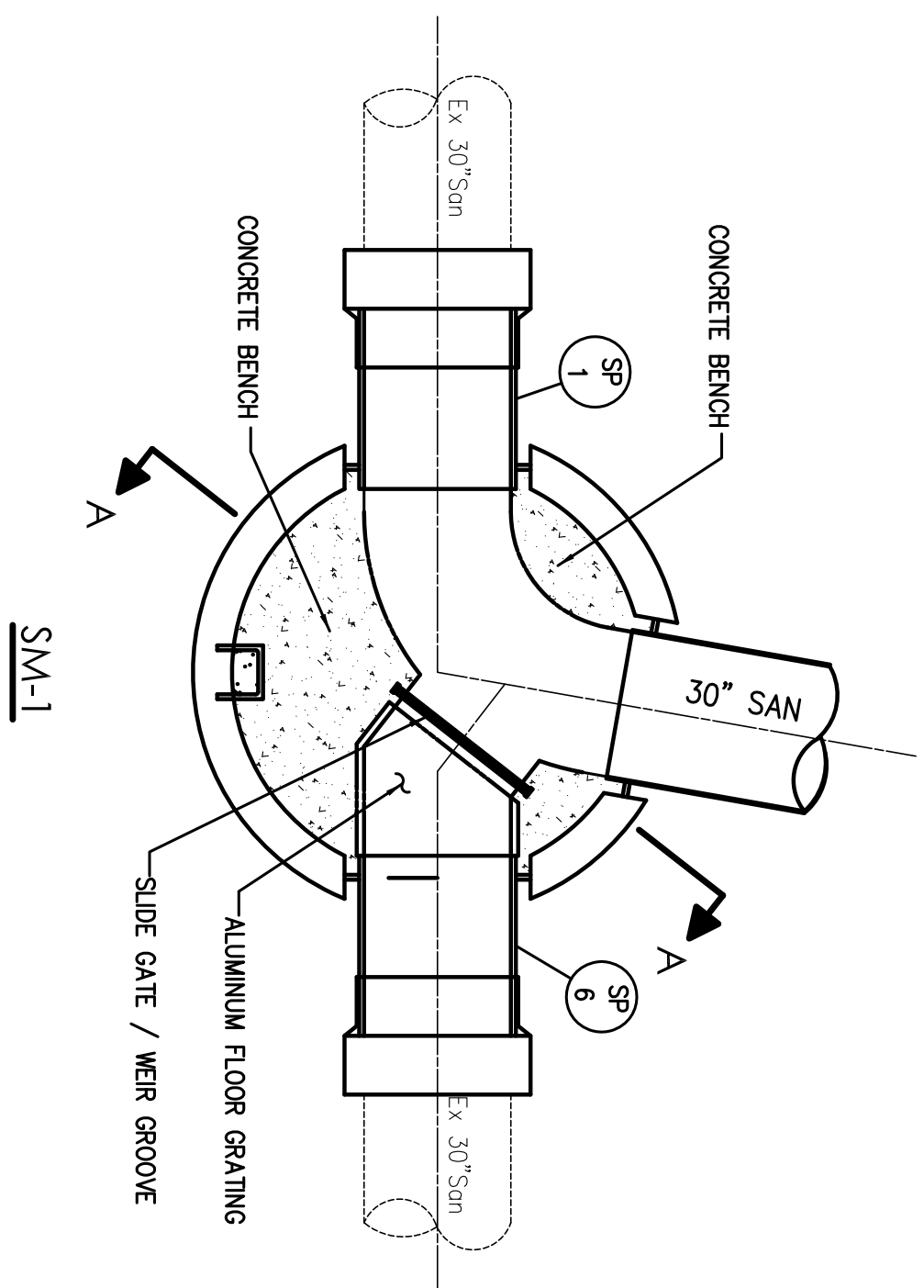
Levee Infrastructure Improvement Project
Siphon Outlet Chamber Detail (SC-1)
City of Massillon
Stark County, Ohio

DATE	DESCRIPTION
1/2014	AS-BUILT

DATE: Aug. 2012	DRAWN BY: FPW
CHECKED BY: KAD	DATE: Aug. 2012

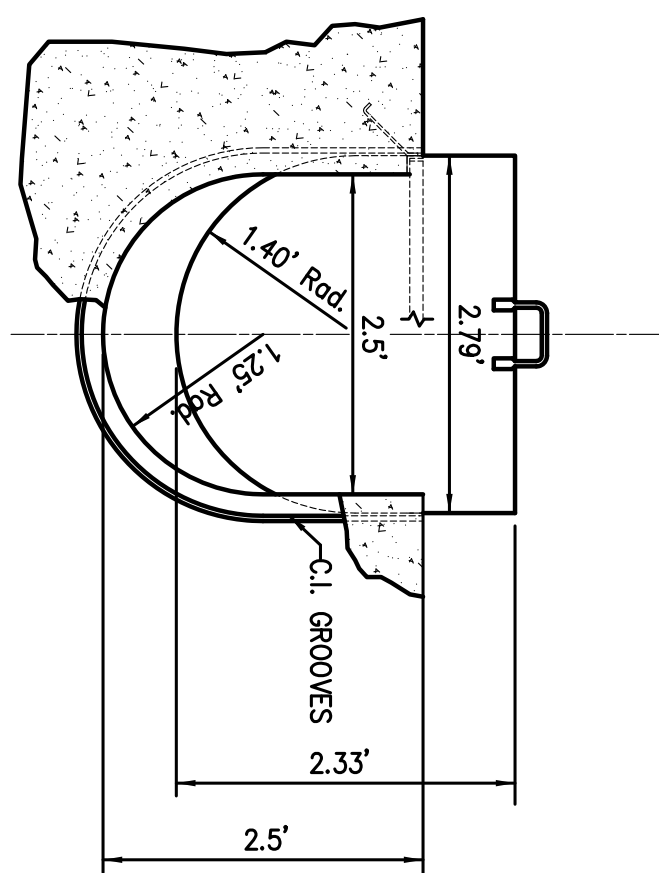
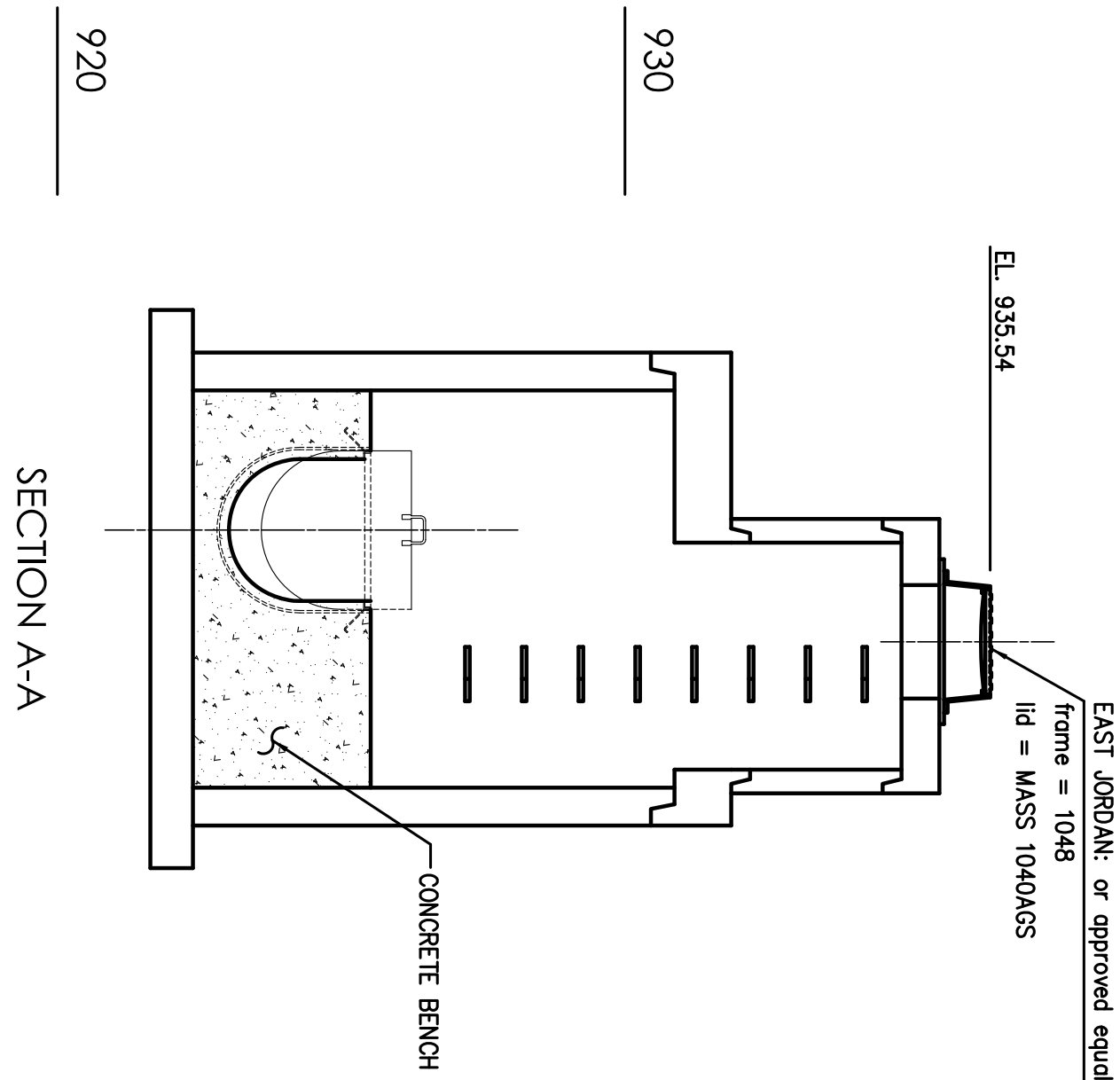


DRAWING NAME: SiphonOutletDetail-9114
CITY NUMBER: 10101
14/18

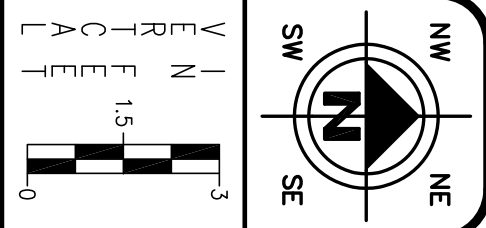
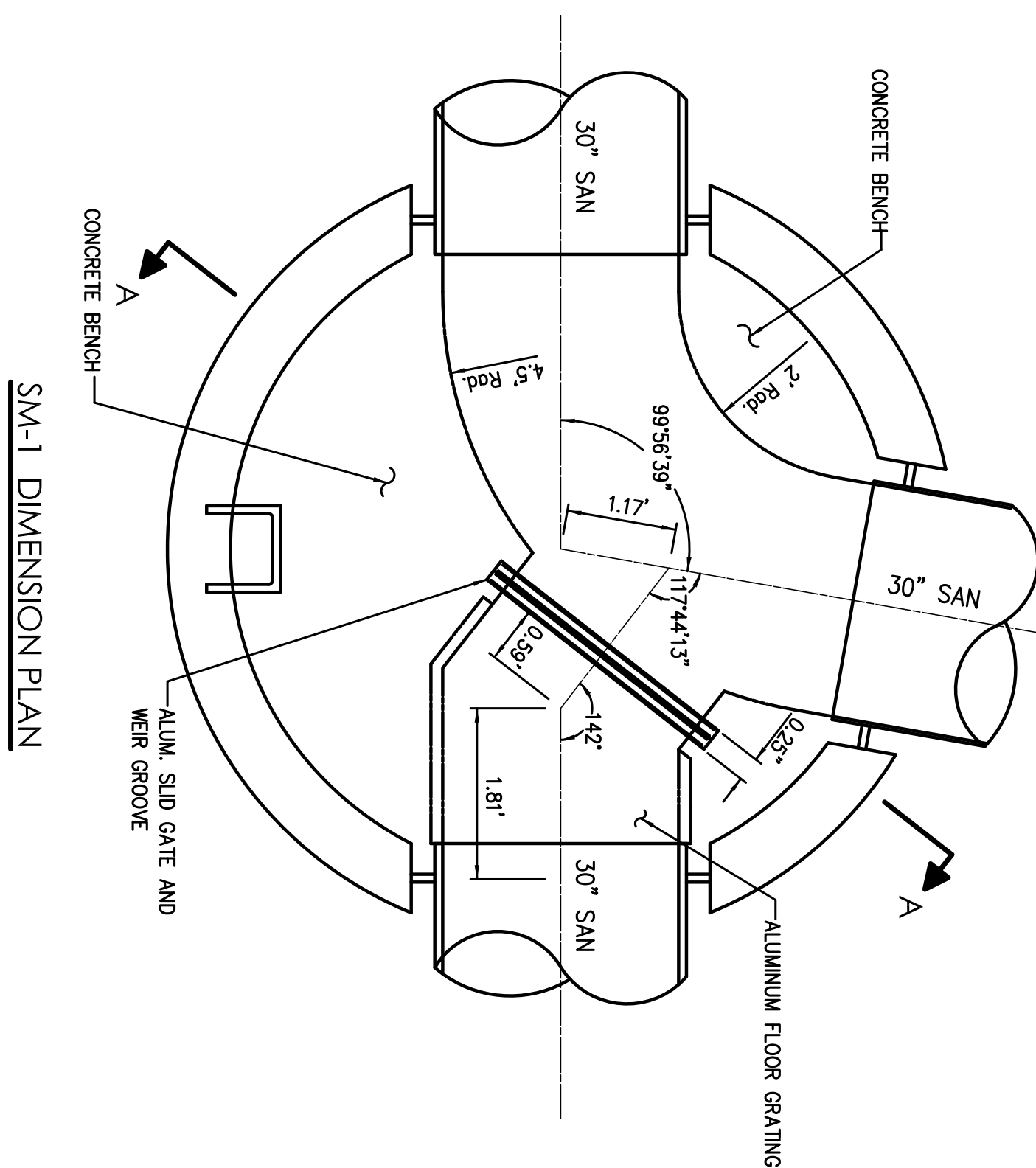
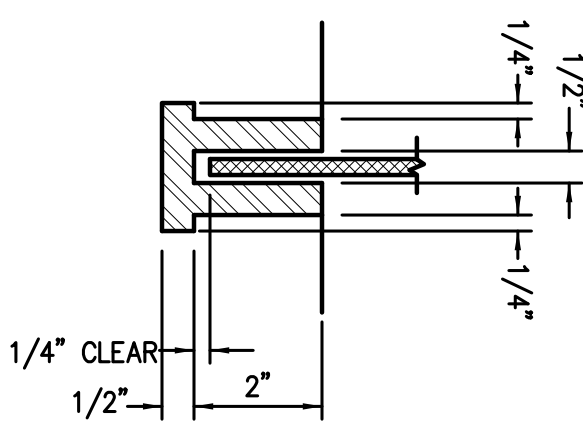


FLOOR GRATING DETAIL

ALUMINUM FLOOR GRATING



SLIDE GATE / WEIR GROOVE DETAIL



HORIZONTAL
SCALE IN FEET

CHECKED BY:
KAD

DATE:
Aug. 2012

DRAWN BY:
FPW

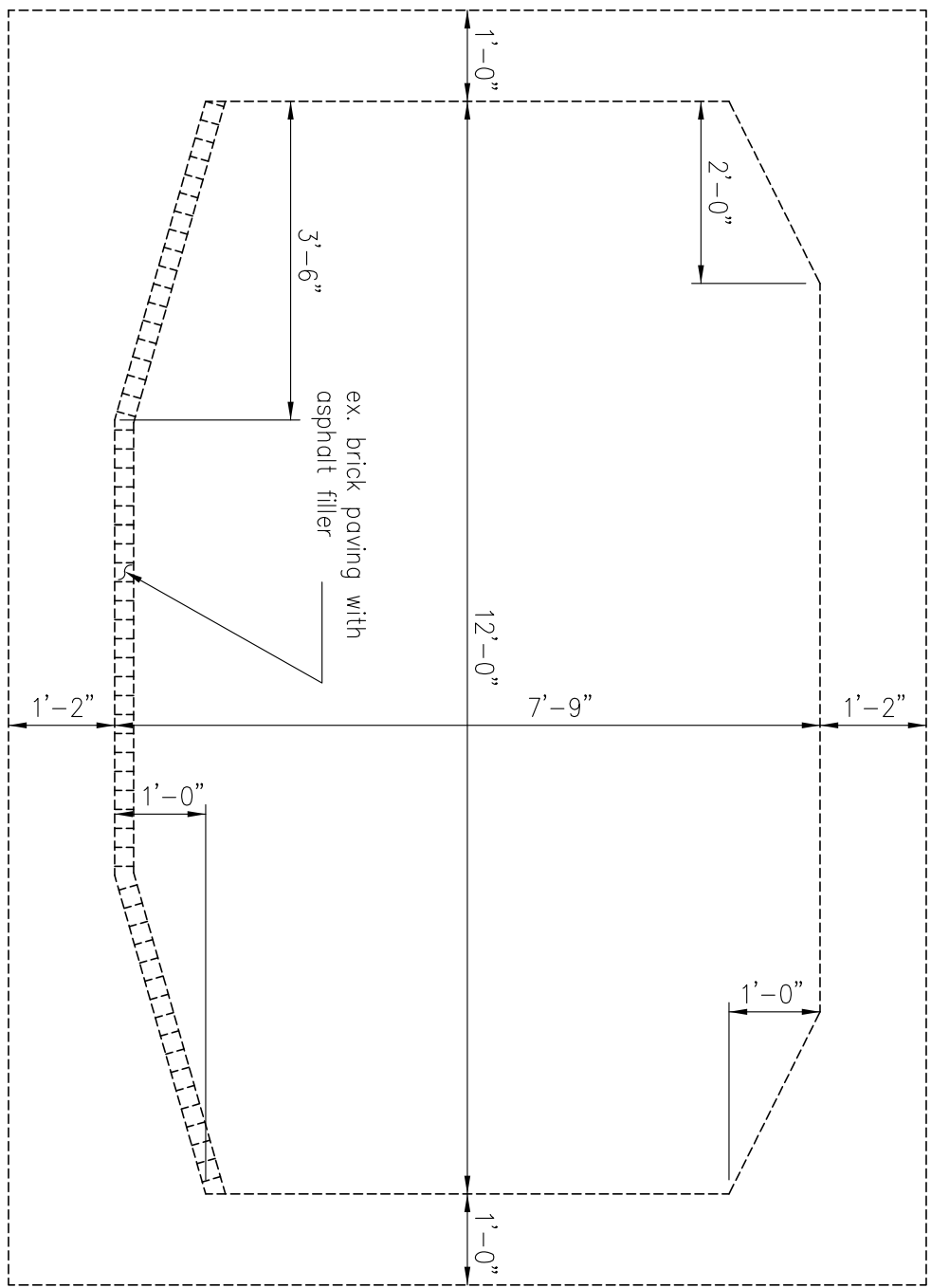
DATE:
Aug. 2012

REVISIONS:	
DATE	DESCRIPTION

Levee Infrastructure Improvement Project
Siphon Outlet Chamber Detail (SC-1)
City of Massillon
Stark County, Ohio

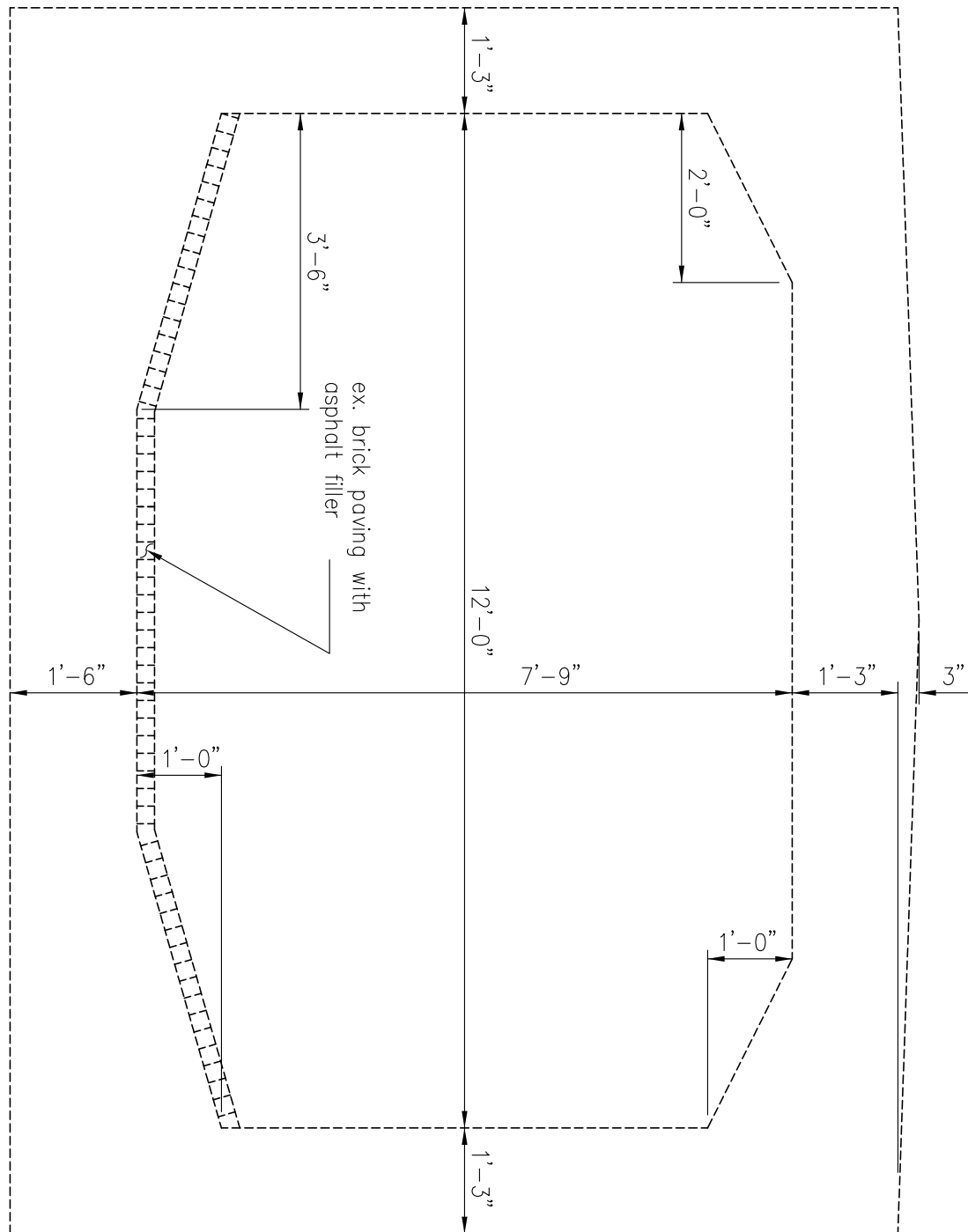
Kathy Catazaro-Perry, Mayor
Massillon
City of Champions

DRAWING NAME:
SiphonOutletDetail-SC1
CITY NUMBER:
101001
16/18



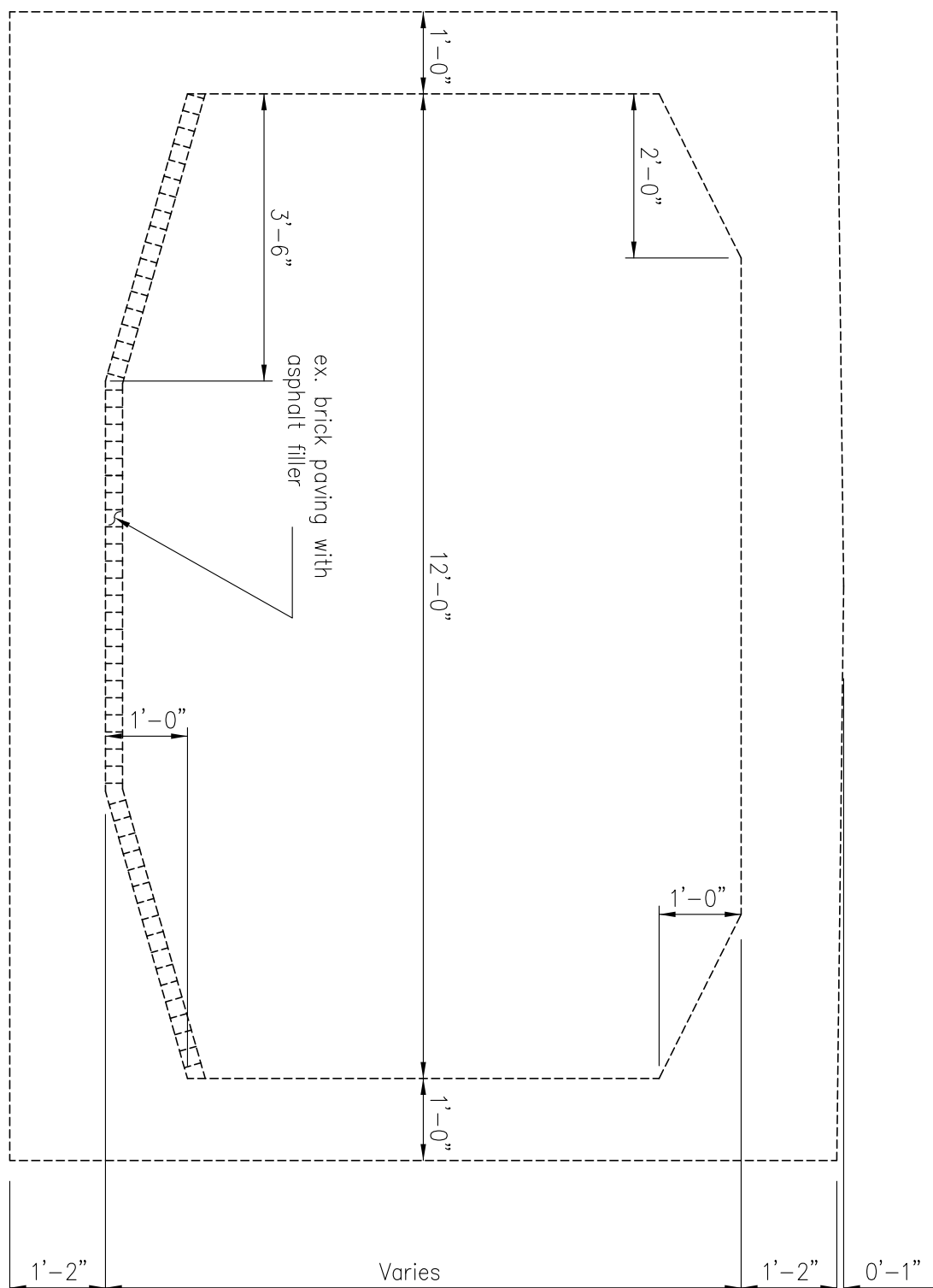
Typical Section No. 1

STA. 2+15 TO STA. 3+17.51
STA. 3+37.51 TO STA. 4+96.25
STA. 5+16.25 TO STA. 10+97.06



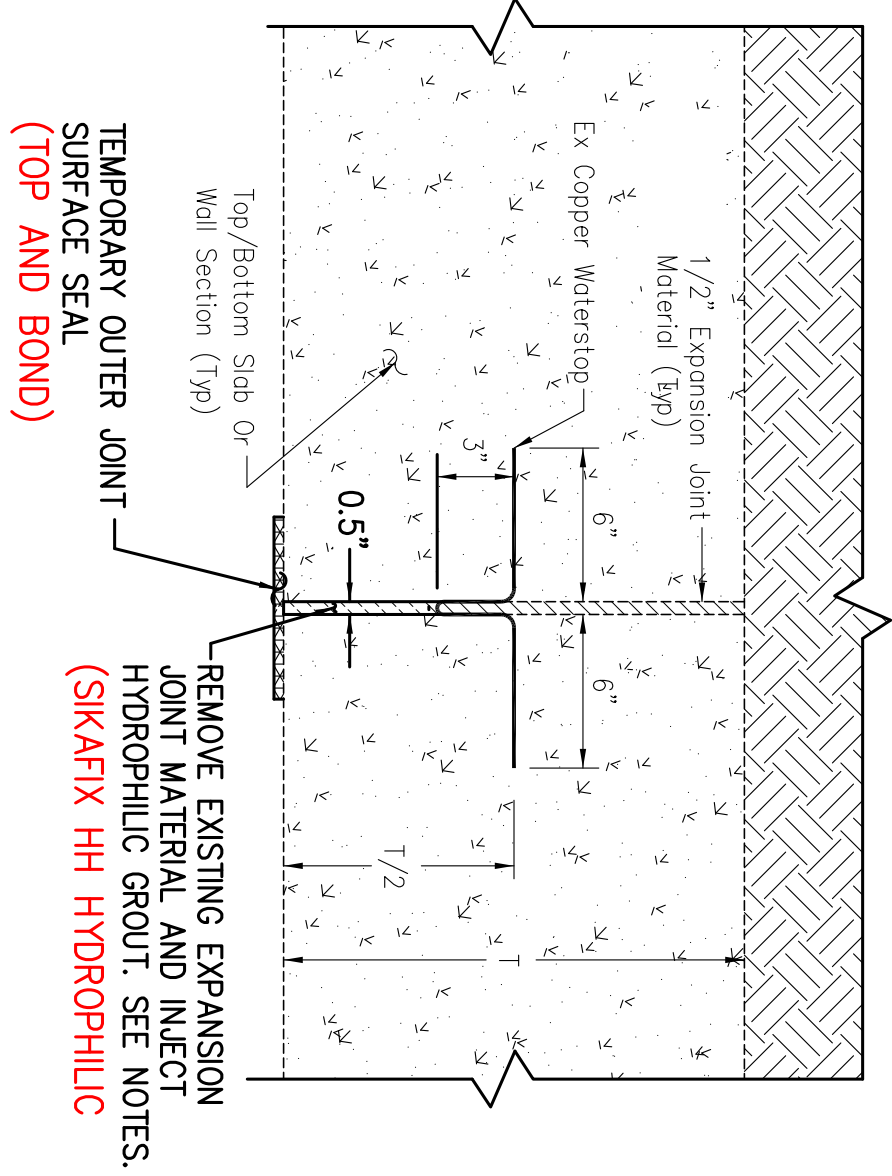
Typical Section No. 2

STA. 0+79.33 TO STA. 2+15
STA. 3+17.51 TO STA. 3+37.51
STA. 4+96.25 TO STA. 5+16.25



Typical Section No. 3

STA. 10+97.06 TO 11+57.06

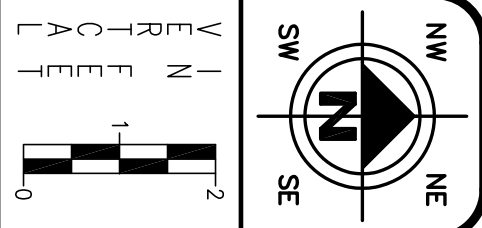


GENERAL INSTRUCTIONS FOR JOINT REPAIR

1. REMOVE EXPANSION JOINT MATERIAL NEAREST THE INTERIOR BACK TO THE WATERSTOP. BE CAREFUL NOT TO DAMAGE THE COPPER WATERSTOP. IT MAY BE NECESSARY TO LEAVE A PORTION OF THE JOINT MATERIAL IN PLACE TO ENSURE THAT EFFORTS TO REMOVE THE JOINT MATERIAL DO NOT DAMAGE THE WATERSTOP.
2. THE PAVR BRICKS LYING OVER THE BASE SLAB EXPANSION JOINT SHOULD BE TEMPORARILY REMOVED TO PERMIT ACCESS TO THE JOINT. THE WORK ON THE BASE SLAB SHOULD BE PERFORMED IN DRY.
3. REMOVE LOOSE CONCRETE TO A SOUND SURFACE AND FLUSH JOINTS TO REMOVE LOOSE DEBRIS.
4. BACKING IS LIKELY NOT REQUIRED, HOWEVER, THIS WILL BE LEFT TO THE CONTRACTOR AND MAY DEPEND ON THE SPECIFIC TECHNIQUES THAT ARE EMPLOYED AS WELL AS THE QUANTITY OF SEEPAGE PASSING THROUGH THE JOINT AT THE TIME OF REPAIR.
5. APPLY TEMPORARY OUTER JOINT SURFACE SEAL.
6. INJECT HYDROPHILIC GROUT.
7. FINISHING COSMETICS, THE FINISHED SURFACE SHOULD BE SMOOTH AND TOOLED IN SUCH A WAY THAT THE JOINT MATERIAL IS FLUSH WITH THE ADJACENT CONCRETE WALL/SLAB SECTION.

NOTES:

1. DO NOT PENETRATE THE COPPER WATERSTOP UNLESS DIRECTED TO BY THE CITY OR AN ON-SITE ENGINEER. IF THE WATERSTOP IS BROKEN THIS OCCURRENCE SHOULD BE NOTED AND REPORTED TO THE CITY FOR THEIR RECORDS.
2. GROUT MATERIAL SHOULD BE FLEXIBLE TO ALLOW THE EXPANSION JOINT TO MOVE AS DESIGNED.
3. CREWS CONDUCTING WORK MUST BE CONFINED SPACE TRAINED AND UTILIZE ALL APPLICABLE EQUIPMENT.
4. MANY GROUTS CONTAIN CHEMICALS THAT COULD BE HARMFUL WHEN USED IN AREAS WITH POOR VENTILATION. THIS SHOULD BE CONSIDERED WHEN PLANNING WORK IN A CONFINED SPACE. SPECIAL PPE, INCLUDING RESPIRATORS, MAY BE REQUIRED.



HORIZONTAL
SCALE IN FEET

CHECKED BY:
KAD

DATE:
Aug. 2012

DRAWN BY:
FPW

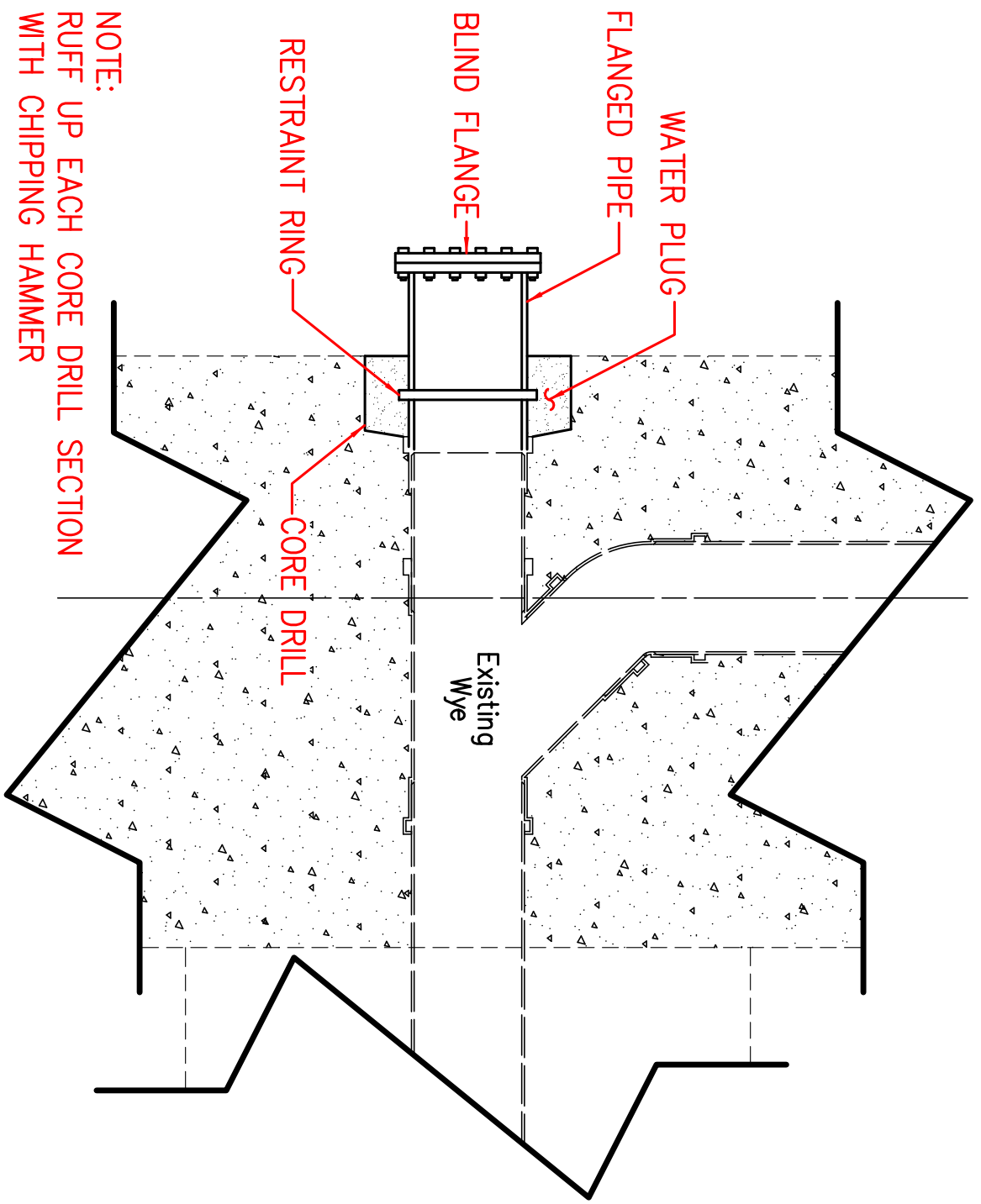
DATE:
Aug. 2012

REVISIONS:	
DATE	DESCRIPTION
1/2015	AS-BUILT

Levee Infrastructure Improvement Project
Wetmore Creek Conduit Typical Section and Notes
City of Massillon
Stark County, Ohio

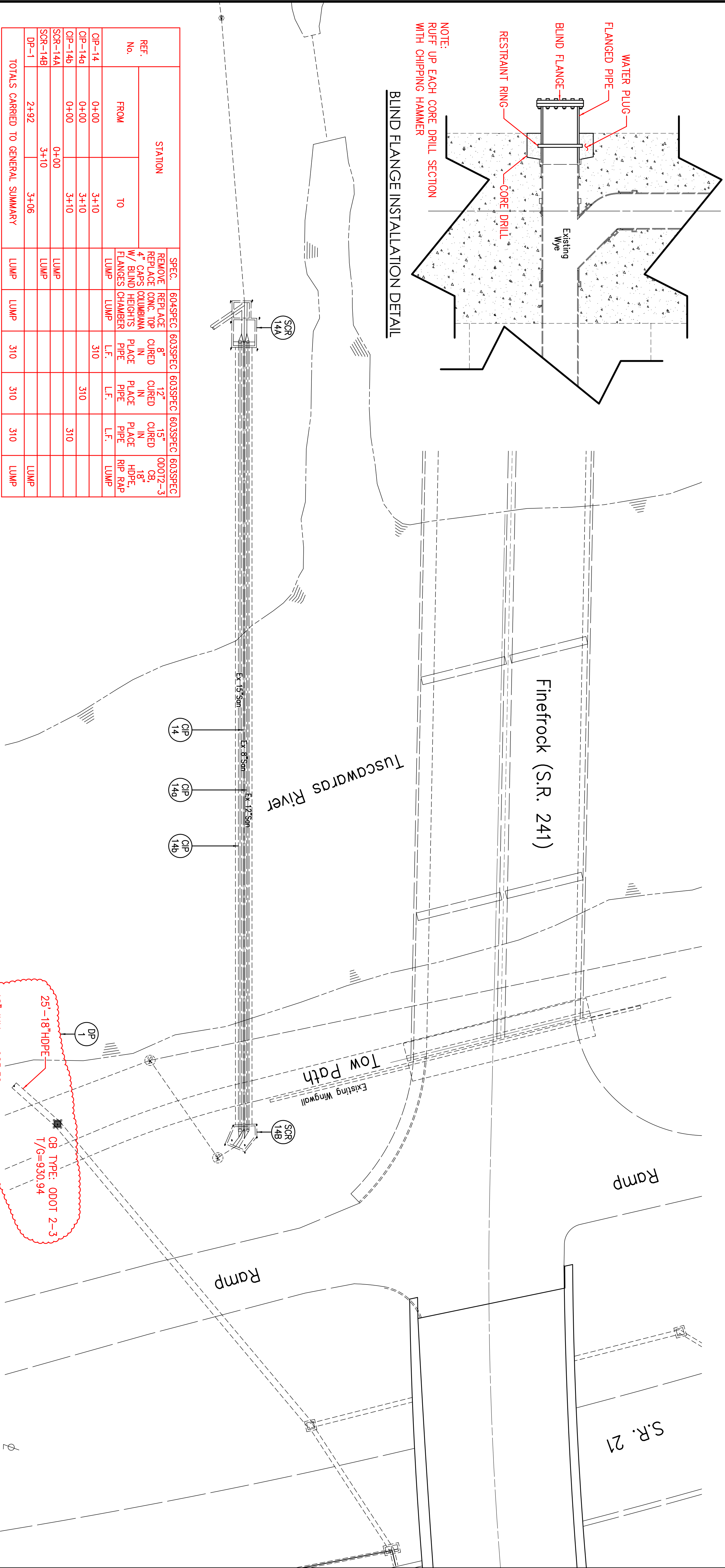
Kathy Catazaro-Perry, Mayor
Massillon
City of Champions

DRAWING NAME:
Levee Infrastructure - SH17
CITY NUMBER:
101601
17/18

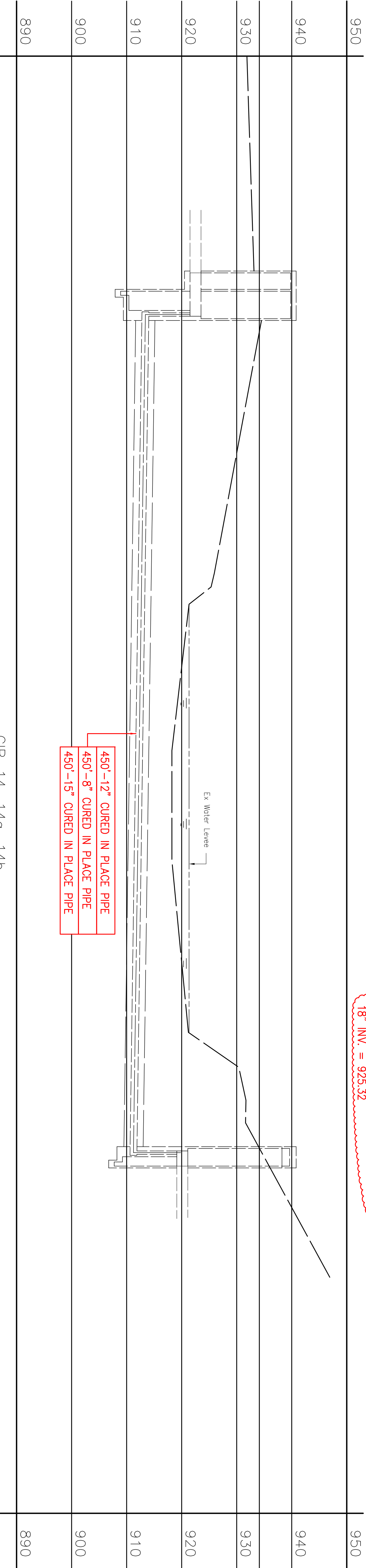


NOTE:
RUFF UP EACH CORE DRILL SECTION
WITH CHIPPING HAMMER

BLIND FLANGE INSTALLATION DETAIL

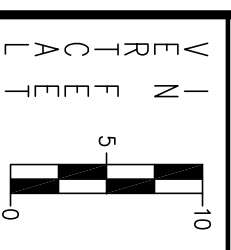
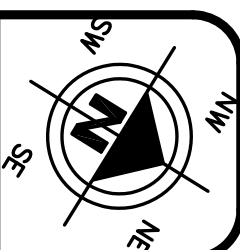


REF. No.	STATION		SPEC.	604SPEC	603SPEC	8"	CURED	12"	CURED	15"	CURED	000T2-3
	FROM	TO										
CIP-14	0+00	3+10	REPLACE CONC. TOP W/ BLIND HEIGHTS FLANGES CHAMBER	LUMP	LUMP	L.F.	310	L.F.	310	L.F.	310	HDPE, R/R RAP
CIP-14a	0+00	3+10										
CIP-14b	0+00	3+10										
SCR-14A	0+00	3+10										
SCR-14B	3+10											
DP-1	2+92	3+06										
TOTALS CARRIED TO GENERAL SUMMARY				LUMP	LUMP		310		310		310	LUMP



450'-12" CURED IN PLACE PIPE
450'-8" CURED IN PLACE PIPE
450'-15" CURED IN PLACE PIPE

CIP-14, 14a, 14b



0 5 10 20
HORIZONTAL
SCALE IN FEET

CHECKED BY:
KAD

DATE:
March, 2014

DRAWN BY:
FPW

DATE:
March, 2014

REVISIONS:	
DATE	DESCRIPTION

Levee Infrastructure Improvement Project
CIP-14, CIP-14a and CIP-14b Plan and Profile
City of Massillon
Stark County, Ohio

Kathy Catazaro-Perry, Mayor
Massillon
City of Champions

DRAWING NAME:
LeveeCIP-14-14a-14b-2118a
CITY NUMBER:
18a/18