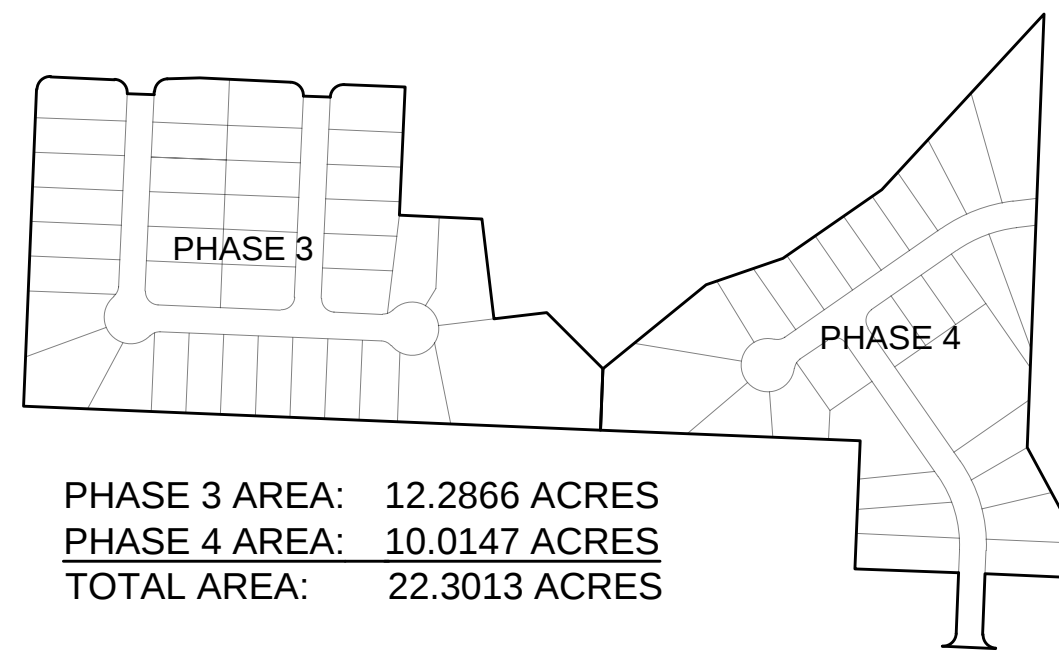




PHASE 3 AREA: 12.2866 ACRES
PHASE 4 AREA: 10.0147 ACRES
TOTAL AREA: 22.3013 ACRES

PHASE 3 PROP. DEDICATED R/W AREA: 1.7511 ACRES
PHASE 4 PROP. DEDICATED R/W AREA: 1.5853 ACRES
TOTAL PROP. DEDICATED R/W AREA: 3.3364 ACRES

PROJECT DESCRIPTION

TWO NEW PHASES OF AN EXISTING ALLOTMENT TO INCLUDE
NEW ROADWAY, SEWERS, AND WATERLINE.

NOTES

- 1) SUBJECT TO ANY AND ALL EASEMENTS, RESERVATIONS, RESTRICTIONS, AND CONVEYANCES OF RECORD.
- 2) IRON PINS TO BE SET AT ALL PROPOSED LOT CORNERS AND CURVE POINTS.
- 3) THE SIDE SETBACKS SHOWN ON THIS MAP ARE 8'.
- 4) PROPOSED USE OF LOTS IS SINGLE FAMILY RESIDENTIAL.
- 6) ALL PARCELS IN THE CITY OF MASSILLON ADJACENT TO THE TWO SUBJECT PARCELS AND THE SUBJECT PARCELS THEMSELVES ARE ZONED R-1 WITH EXCEPTION TO THE TRAILER PARK DIRECTLY SOUTH OF THE SITE WHICH IS NOT ZONED. ALL ADJACENT PARCELS IN TUSCARAWAS TOWNSHIP ARE NOT ZONED.

TOTAL

SANITARY - 1961 LF
STORM - 2892 LF
WATER - 2849 LF
ROADWAY - 2722 LF

CONVENTIONAL SIGNS

RIGHT OF WAY	• • • EXISTING: ——— Ex R/W ———	, PROPOSED: ——— R/W ———
MAJOR CONTOUR	• • • EXISTING: - - - - -	, PROPOSED: ———
MINOR CONTOUR	• • • EXISTING: - - - - -	, PROPOSED: ———
CORPORATION LINE	• • • EXISTING: ———	, PROPOSED: ———
FENCE LINE	• • • EXISTING: ———	, PROPOSED: ———
GUARDRAIL	• • • EXISTING: ———	, PROPOSED: ———
MANHOLES	• • • EXISTING: ———	, PROPOSED: ———, REHABILITATED: ———
CATCH BASINS	• • EXISTING: ———	, PROPOSED: ———, REHABILITATED: ———
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: ———	

LEGEND

- D.H.F. DRILL HOLE FOUND
- D.H.S. DRILL HOLE SET
- RAIL ROAD SPIKE FOUND
- RAIL ROAD SPIKE SET
- MONUMENT FOUND IN BOX
- MONUMENT BOX WITH IRON PIN SET
- P.K.F. P.K. NAIL/MAG NAIL FOUND
- P.K.S. P.K. NAIL/MAG NAIL SET
- I.P.F. IRON PIN FOUND
- I.P.S. IRON PIN SET
- PIPE FOUND
- PIPE SET

ALL IRON PINS SET ARE 5/8" IN DIAMETER AND 30" IN LENGTH.
ALL IRON PINS SET ARE CAPPED "CIVPRO PS 8488."

CENTERLINE ———
PROPERTY LINE ———
EXISTING ADJOINERS PROPERTY LINE ———
EXISTING RIGHT-OF-WAY LINE ——— Ex R/W ———
PROPOSED RIGHT-OF-WAY LINE ——— R/W ———
FENCE ———

REC.	RECEPTION	Ac.	ACRES
Rec.	RECORD ()	Sq.Ft.	SQUARE FEET
Meas.	MEASURED	Vol.	VOLUME
No.	NUMBER	Pg.	PAGE
S/L	SUBLOT	Stm.	STORM
Dd.	DEED	San.	SANITARY
Calc.	CALCULATED	N.	NORTH
Obs.	OBSERVED	S.	SOUTH
Co.	COMPANY	E.	EAST
Ext.	EASEMENT	W.	WEST
Bldg.	BUILDING	Fd.	FOUND
I.	IRON	P.O.B.	PLACE OF BEGINNING
P.P.N.	PERMANENT PARCEL	P.P.O.B.	PRINCIPAL PLACE OF BEGINNING
RCP.	REINFORCED CONCRETE	C.L.F.	CHAIN-LINK FENCE
ENCR.	PIPE	CONN.	CONNECTION
CLR.	ENCROACHES	ADJ.	ADJACENT
Ex.	EXISTING	CNTY.	COUNTY

Sippo Reserves Allotment Phases 3 & 4 Improvement Plans CITY OF MASSILLON STARK COUNTY, OHIO 66 LOTS , 22.3013 ACRES



LOCATION MAP



PLAN PREPARED BY:

CIVPRO ENGINEERING, LLC
4450 Belden Village Street NW
Suite 800
Canton, Ohio 44718
(234) 410-3913

OWNER:

Rohrer Development, LLC
4453 Sentinel Post Rd.
Atlanta, GA 30327

DEVELOPER:

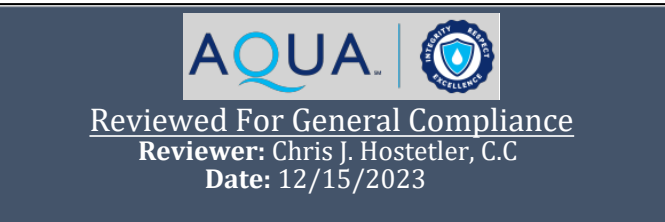
Frontier Land Group
25700 Science Park Dr.
Suite 360
Beachwood, OH 44122
216-965-1922

KEITH A. DYLEWSKI, P.E., P.S.
CIVPRO ENGINEERING, LLC



9/12/2023

DATE



APPROVAL OF THESE PLANS IS FOR AQUA
AND OHIO EPA COMPLIANCE ONLY. NOT
FOR DESIGN OR CONSTRUCTION.

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CITY OF MASSILLON ELECTED OFFICIALS

KATHY CATAZARO—PERRY	• • • • •	MAYOR
JUSTIN RICHARD	• • • • •	LAW DIRECTOR/PROSECUTOR
JAYNE FERRERO	• • • • •	AUDITOR
MAUDE SLAGLE	• • • • •	TREASURER
COUNCIL		
CLAUDETTE O. ISTNICK	• • • • •	PRESIDENT
MARK LOMBARDI	• • • • •	1st WARD
JIM THIERET	• • • • •	2nd WARD
MICHAEL L. GREGG	• • • • •	3rd WARD
JILL CREAMER	• • • • •	4th WARD
MEGAN STARRETT	• • • • •	5th WARD
LINDA K. LITMAN	• • • • •	6th WARD
TED HERNICANE	• • • • •	AT LARGE
ED LEWIS IV	• • • • •	AT LARGE
JAMIE SLUTZ	• • • • •	AT LARGE

APPROVALS

APPROVAL - CITY OF MASSILLON ENGINEERING DEPARTMENT

Alex Pitts, P.E.

01/04/2024
DATE

Sippo Reserves Allotment Phases 3 & 4

Title Sheet
City of Massillon
Stark County, Ohio



DRAWING NAME:
Sippo Reserves
Title Sheet

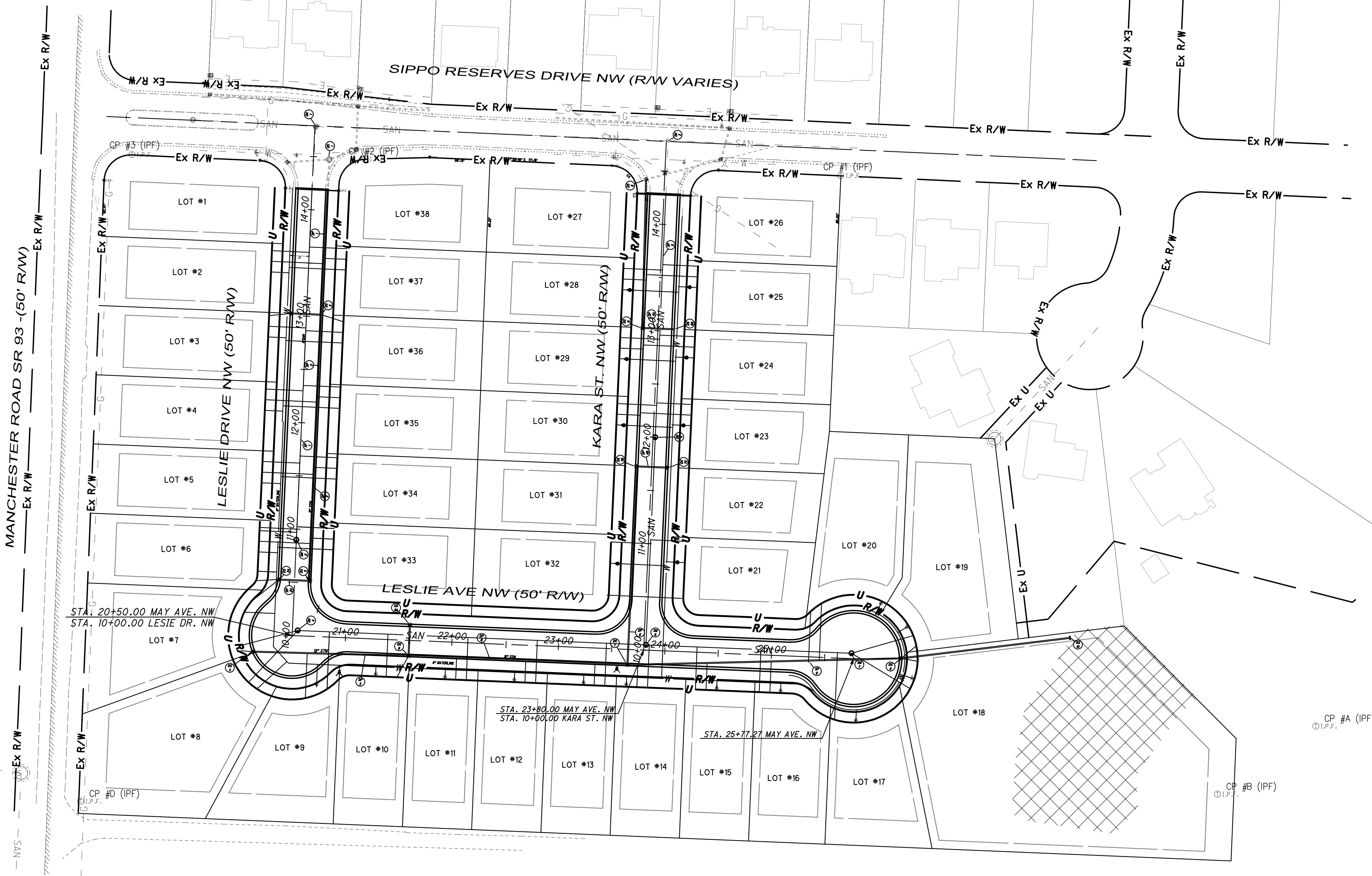
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1 / 39

CENTERLINE

DESCRIPTION	NORTH	EAST
LESLIE DR NE		
STA. 10+00	417478.8925	2217368.0507
STA. 14+78.95	417957.3674	2217389.3872
MAY ST NW		
STA. 23+80	417465.2914	2217697.7684
STA. 25+77.27	417457.1608	2217894.8707
KARA AVE NW		
14+77.85	417942.6666	2217719.0558

CONTROL

DESCRIPTION	NORTH	EAST	ELEVATION
CP #1 (IPF)	417910.4852	2217882.7635	1047.91
CP #2 (IPF)	417926.1764	2217436.3813	1056.75
CP #3 (IPF)	417930.2331	2217217.8387	1061.49
CP #A (IPS)	417393.9342	2218328.3550	1040.06
CP #B (IPS)	417330.0724	2218236.1677	1035.13
CP #D (IPS)	417323.3985	2217169.6305	1065.78



NW

NE

SW

SE

N

E

S

W

VERTICAL SCALE

1"=10'

HORIZONTAL SCALE IN FEET

1"=25'

CHECKED BY:
KAD

DATE:
Mar, 2023

DRAWN BY:
JTD

DATE:
Mar, 2023

REVISIONS:

DATE

DESCRIPTION

DATE

DESCRIPTION

Sippo Reserves Allotment Phases 3 & 4

Schematic Plan - Phase 3

City of Massillon

Stark County, Ohio

CIVIPRO

ENGINEERING

ENGINEERS-SURVEYORS-CONSTRUCTION MANAGERS

4450 BELDEN VILLAGE STREET NW, SUITE 800 CANTON, OH 44718

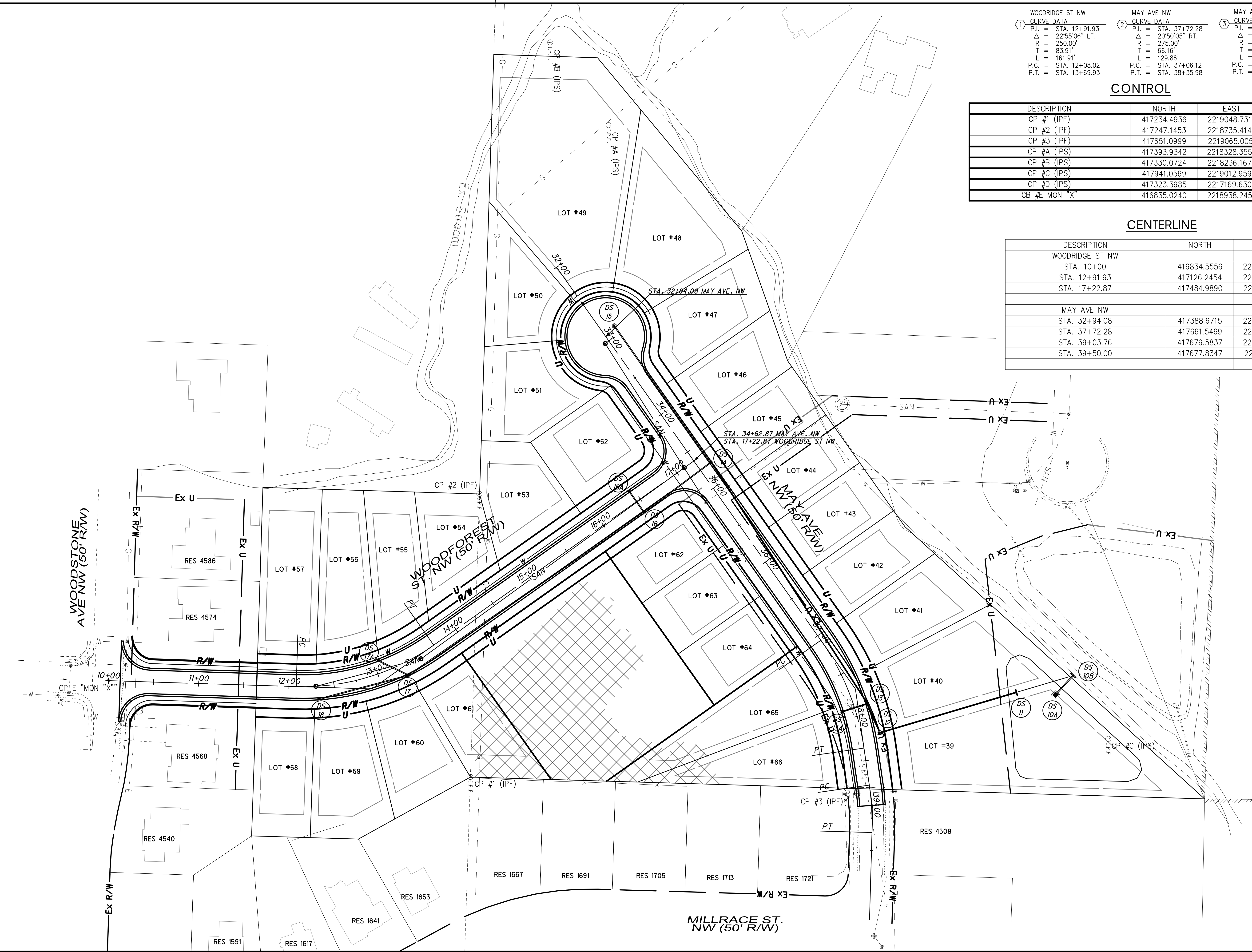
PHONE: (224) 410-3913 EMAIL: KAD@CIVIPROENGINEERING.COM

WWW.CIVIPROENGINEERING.COM

DRAWING NAME:
Sippo Sch Ph 3

REF NUMBER:

2 / 39



WOODRIDGE ST NW	MAY AVE NW	MAY AVE NW
1 CURVE DATA	2 CURVE DATA	3 CURVE DATA
P.I. = STA. 12+91.93	P.I. = STA. 37+72.28	P.I. = STA. 39+03.76
Δ = 22°55'06" LT.	Δ = 20°50'05" RT.	Δ = 18°45'57" RT.
R = 250.00'	R = 275.00'	R = 305.32'
T = 83.91'	T = 66.16'	T = 26.45'
L = 161.91'	L = 129.86'	L = 52.76'
P.C. = STA. 12+08.02	P.C. = STA. 37+06.12	P.C. = STA. 38+77.32
P.T. = STA. 13+69.93	P.T. = STA. 38+35.98	P.T. = STA. 39+30.07

CONTROL

DESCRIPTION	NORTH	EAST	ELEVATION
CP #1 (IPF)	417234.4936	2219048.7316	1041.8137
CP #2 (IPF)	417247.1453	2218735.4148	1047.071
CP #3 (IPF)	417651.0999	2219065.0051	1040.40
CP #A (IPS)	417393.9342	2218328.3550	1040.06
CP #B (IPS)	417330.0724	2218236.1677	1035.13
CP #C (IPS)	417941.0569	2219012.9593	1029.52
CP #D (IPS)	417323.3985	2217169.6305	1065.78
CB #E MON "X"	416835.0240	2218938.2459	1050.36

CENTERLINE

DESCRIPTION	NORTH	EAST
WOODRIDGE ST NW		
STA. 10+00	416834.5556	2218938.5500
STA. 12+91.93	417126.2454	2218950.3299
STA. 17+22.87	417484.9890	2218701.0507
MAY AVE NW		
STA. 32+94.08	417388.6715	2218562.4379
STA. 37+72.28	417661.5469	2218955.1394
STA. 39+03.76	417679.5837	2219087.8657
STA. 39+50.00	417677.8347	2219134.2031

MS

MN

0

25

50

0

25

50

HORIZONTAL
SCALE IN FEET

CHECKED BY:
KAD

DATE:
Mar, 2023

DRAWN BY:
JTD

DATE:
Mar, 2023

REVISIONS:

DATE	DESCRIPTION

Sippo Reserves Allotment Phases 3 & 4
Schematic Plan Phase 4
City of Massillon
Stark County, Ohio

CIVPRO

ENGINEERING

ENGINEERS-SURVEYORS-CONSTRUCTION MANAGERS
4450 BUDEN VALLEY STREET NW, SUITE 900 CANTON, OH 44718
PHONE: (234) 440-3911 EMAIL: KAD@CIVPROENGINEERING.COM
WWW.CIVPROENGINEERING.COM

DRAWING NAME:
Sippo Sch Ph 4
REF NUMBER:

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT
201	Clearing and Grubbing	17.26	ACRES		SANITARY		
203	Excavation	24133	CY				
203	Embankment	14221	CY	611	6" SDR-35 (Lateral)	2581	LF
204	Subgrade Compaction	11410	SY	611	8" SDR-35 Sanitary Sewer	1971	LF
204	Proof Rolling	10	HOURS	604	Sanitary Manhole	9	EACH
207spec	Erosion Control	1	LUMP SUM	604	Sanitary Manhole Adjust	3	EACH
207spec	Silt Fence	2500	LF				
207spec	Temp Seeding	15.01	ACRES		WATER		
207spec	Barracuda Max S4	2	EACH	638	8" CLASS 52 DIP (Polyethylene Wrap)	2370	LF
601	Rock Channel Protection Type C	6	CY	638	6" CLASS 52 DIP (Polyethylene Wrap)	422	LF
659	Topsoil	8072	CY	638	6" Plug and Blowoff Assembly	2	EACH
659spec	Seeding and Mulching	15.01	ACRES	638	12"x8" Tapping Sleeve	1	EACH
301	Asphalt Concrete Base	1536	CY	638	6" Gate Valve W/ Box	2	EACH
304	Aggregate Base	1902	CY	638	8" Gate Valve W/ Box	4	EACH
407	Tack Coat	737	GAL	638	1" Corporation Stop	66	EACH
408	Prime Coat	3684	GAL	638	1" Curb Stop & Box	66	EACH
441	Asphalt Concrete Surface Course, Type 1, (448), PG 64-22	384	CY	638	Fire Hydrant Assembly	4	EACH
609	4" Concrete Walk	21942	SF	638	1" Type K Copper Service Line	2330	LF
609	Curb, Type 2	5301	LF				
705	Joint Sealer	100	GAL				
611	6" Type B Conduit (Lateral)	1805	LF				
611	8" Type B Conduit	30	LF				
611	12" Type B Conduit	1747	LF				
611	15" Type B Conduit	604	LF				
611	18" Type B Conduit	601	LF				
611	ODOT Headwall 2.1	3	EACH				
611	Drainage Manhole	4	EACH				
611	Catch Basin APP	21	EACH				
605	4" Shallow Pipe Underdrains	5601	LF				
623	Construction Staking	1	LUMP SUM				
624	Mobilization	1	LUMP SUM				

ESTIMATED QUANTITIES ON THIS SHEET ARE APPROXIMATE AND FOR BIDDING PURPOSES. THE CONTRACTOR IS RESPONSIBLE TO CALCULATE ACTUAL QUANTITIES FOR EACH PAY ITEM.

NW NE
SW SE

NTS
HORIZONTAL SCALE IN FEET

CHECKED BY:
KAD

DATE:
Mar, 2023

DRAWN BY:
JTD

DATE:
Mar, 2023

REVISIONS:	DATE	DESCRIPTION	COMMENTS
	9/12/23		

Sippo Reserves Allotment Phases 3 & 4

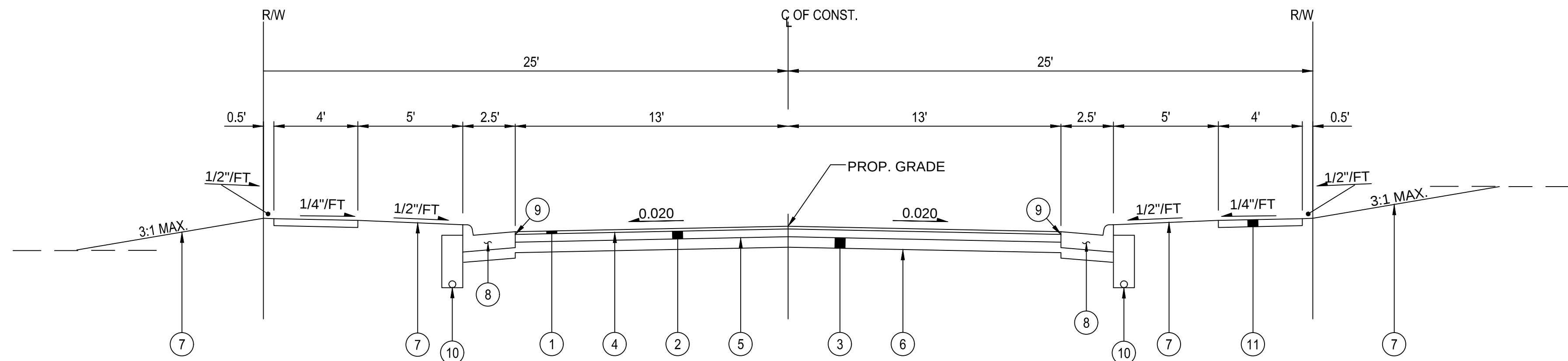
Estimated Quantities
City of Massillon
Stark County, Ohio

CIVIPRO
ENGINEERING
ENGINEERS-SURVEYORS-CONSTRUCTION MANAGERS
4450 BELDEN VILLAGE STREET NW, SUITE 800 CANTON, OH 44705
PHONE: (330) 288-3724 EMAIL: KAD@CIVIPROENGINEERING.COM
WWW.CIVIPROENGINEERING.COM

DRAWING NAME:
Estimated Quantities

REF. NUMBER:

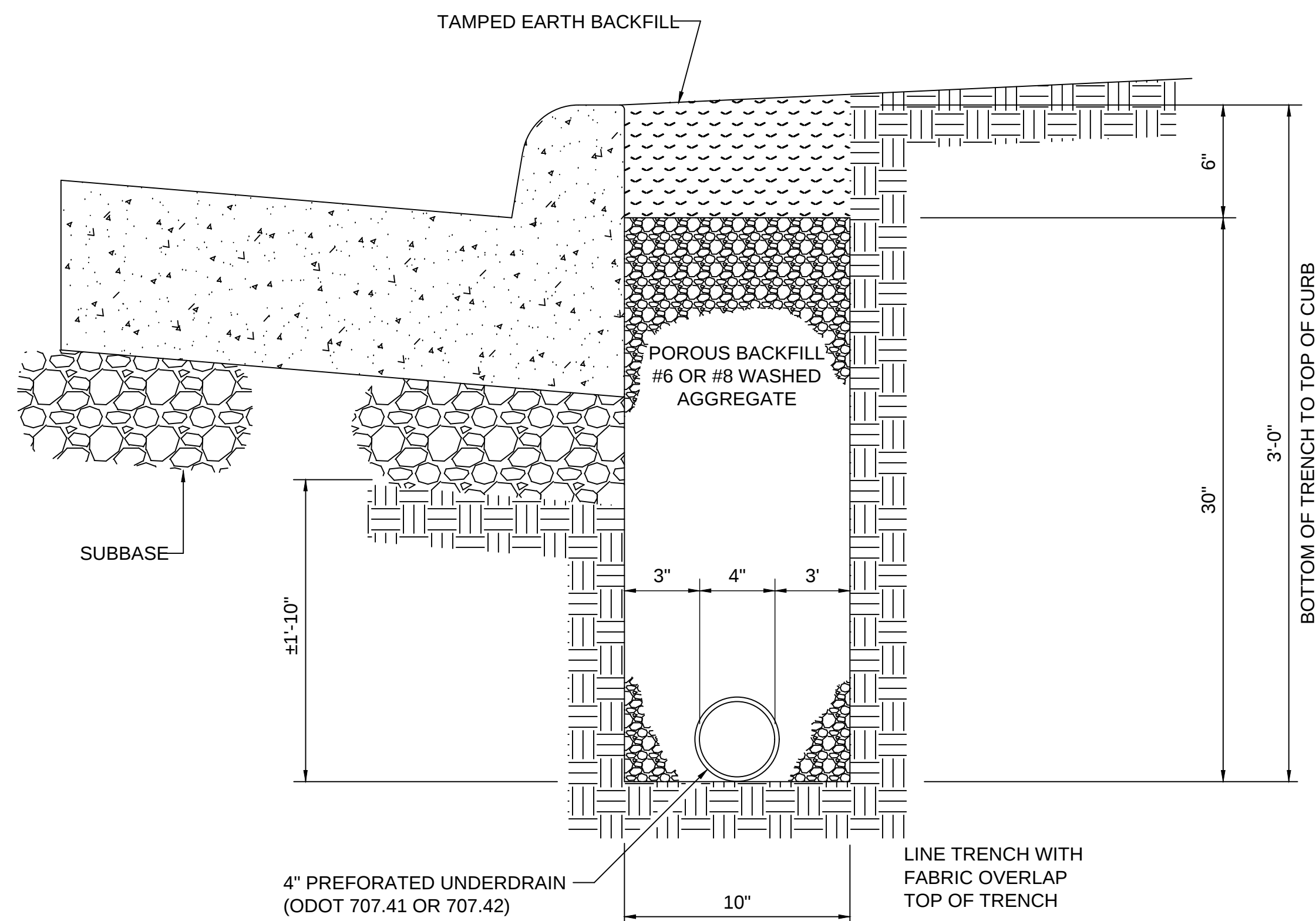
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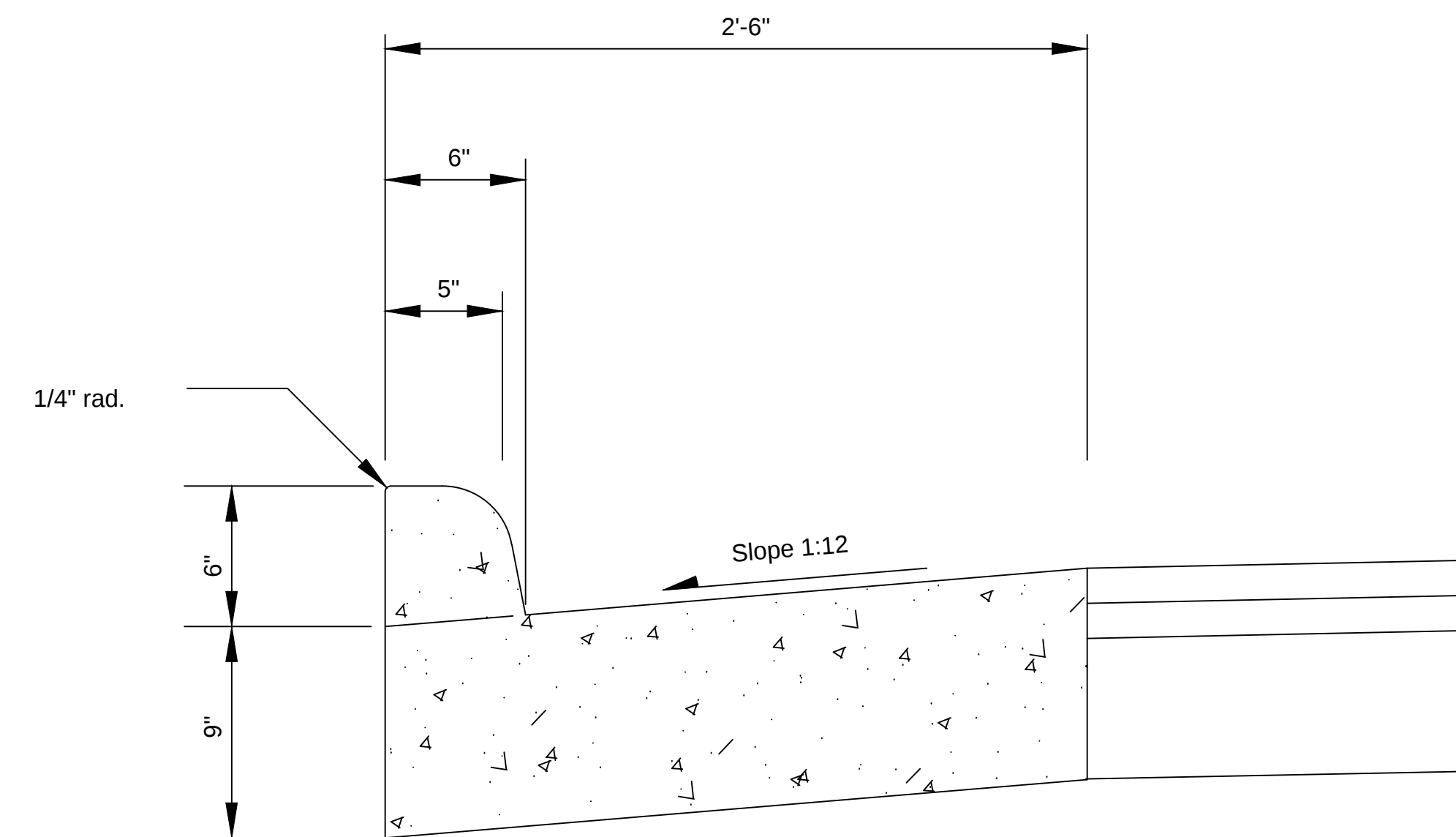
TYPICAL SECTION

PROPOSED LEGEND

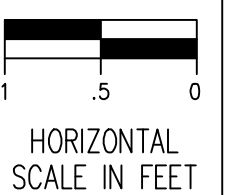
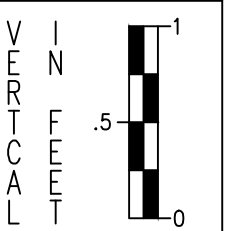
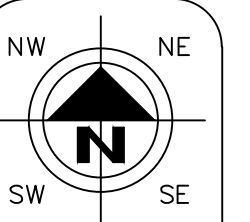
- ① - ITEM 448-1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22
- ② - ITEM 301-4 1/2" ASPHALT CONCRETE BASE
- ③ - ITEM 304-6" AGGREGATE BASE
- ④ - ITEM 407-TACK COAT (0.08 GAL./S.Y.)
- ⑤ - ITEM 408-PRIME COAT (0.40 GAL./S.Y.)
- ⑥ - ITEM 204-SUBGRADE COMPACTION
- ⑦ - ITEM 659-SEEDING AND MULCHING
- ⑧ - ITEM 609-CURB, TYPE 2
- ⑨ - ITEM 705-HOT APPLIED JOINT SEALER(REQUIRED)
- ⑩ - ITEM 605-4" SHALLOW PIPE UNDERDRAINS
- ⑪ - ITEM 608-4" CONCRETE WALK (6" CONCRETE WALK @ DRIVEWAYS) SIDEWALK TO BE CONSTRUCTED BY INDIVIDUAL LOT OWNER



ITEM 605-4" SHALLOW PIPE UNDERDRAINS



ITEM 609-CURB, TYPE 2



CHECKED BY:
KAD

DATE:
FEB. 2023

DRAWN BY:
JTD

DATE:
FEB. 2023

REVISIONS:	DESCRIPTION
DATE	

Sippo Reserves Allotment Phases 3 & 4
Typical Section
City of Massillon
Stark County, Ohio



DRAWING NAME:
Sippo-Typical
REF. NUMBER:

* 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 W. BOWERY, 6TH FLOOR AKRON, OH. 44308 888-901-2779	AQUA WATER 870 THIRD STREET NW MASSILLON, OH. 44647 JACOB FLANARY (330) 832-5764 EXT. 50650	OHIO EDISON STARK DIVISION 2600 S ERIE ST. (800) 633-4766	MASSILLON CABLE P.O. BOX 814 MASSILLON, OH. 44646 (330) 760-3930	OWS AQISITIONS CO, LLC 1037 LAWNRIDGE RD. NE BOLIVAR, OH. 44612 (304) 552-6501
---	---	--	---	---

CITY OF MASSILLON SANITARY SEWER 151 LINCOLN WAY EAST MASSILLON, OH 44646 (330) 830-1722	AT&T COMMUNICATIONS 2535 E. 40TH AVE. DENVER, CO 80205-3601 (800) 852-3786	DOMINION EAST OHIO GAS COMPANY 4725 SOUTHWAY ST SW CANTON, OH 44706 (330) 478-1700	DIVERSIFIED GAS & OIL PLC 4150 BELDEN VILLAGE ST. NW SUITE 410 CANTON, OH 44718 (205) 408-0909
--	---	---	---

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.

OUPS - 1-800-362-2764
OGUPUPS - 1-800-925-0988

DATUM ELEVATION

ALL BENCHMARKS ARE BASED ON REFERENCE BENCHMARKS PROVIDED BY THE CITY OF MASSILLON

STATIONING

ALL STATIONING SHOWN IS REFERENCED TO THE BASELINE AS SHOWN.

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 330832-4337	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 330478-5121	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			

SUBSURFACE CONDITIONS

IT IS THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO MAKE HIS OWN INVESTIGATION OF SUBSURFACE CONDITIONS PRIOR TO SUBMITTING THEIR BID. PROSPECTIVE BIDDERS ARE TO COORDINATE WITH THE OWNER FOR ACCESS TO THE SITE FOR INSPECTIONS AND EXPLORATORY EXCAVATION. THE BIDDER SHALL CONTACT THE OWNER AT LEAST 72 HOURS IN ADVANCE OF THE DESIRED INSPECTION OR EXCAVATION. THE BIDDER SHALL CONTACT O.U.P.S. AND OBTAIN LOCATIONS OF OTHER UTILITIES.

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.

PRESERVATION OF EXISTING UTILITY SERVICES

ANY EXISTING WATER LINE, SANITARY SEWER, STORM SEWER, GAS LINE OR OTHE 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 USE CARE TO PROTECT PUBLIC AND PRIVATE PROPERTY AS PER ITEM 107.10 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS, AND 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 TO A CONDITION SIMILAR OR EQUAL TO BEFORE THE DAMAGE. PRIOR ENGINEER APPROVAL IS REQUIRED BEFORE ANY OF THE ABOVE ITEMS ARE PERFORMED.

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.

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 TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

PROFILE AND ALIGNMENT

THE PROSPED 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 SHALL 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 PROXIMITY 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.

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.

CROSSING OR CONNECTING TO EXISTING PIPES AND UTILITIES

WHERE THE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE CITY OF MASSILLON ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

PAYMENT FOR THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 603 CONDUIT ITEM.

REVIEW OF SANITARY AND DRAINAGE FACILITIES

AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK SHALL BE COMPLETED BEFORE AND AFTER WORK HAS COMMENCED. FINAL ACCEPTANCE BY THE CITY OF MASSILLON WILL NOT OCCUR UNTIL AFTER SAID INSPECTION. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE OBSERVATIONS SHALL BE PROVIDED IN WRITING BY THE CONTRACTOR TO THE CITY OF MASSILLON.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BT THE CITY OF MASSILLON.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 603 CONDUIT ITEMS.

ITEM 407, TACK COAT

THE RATE OF APPLICATION OF THE 407 TACK COAT SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF 0.08 GALLONS PER SQUARE YARD OF TACK COAT FOR ESTIMATING PURPOSES ONLY.

ITEM 408, BITUMINOUS PRIME COAT

THE RATE OF APPLICATION OF THE 408 PRIME COAT SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF 0.40 GALLONS PER SQUARE YARD OF PRIME COAT FOR ESTIMATING PURPOSES ONLY.

ITEM 659, TOPSOIL, SEEDING AND MULCHING

ITEM 659 SHALL BE APPLIED TO ALL EXPOSED SOIL AREAS DISTURBED DURING CONSTRUCTION. SUCH AS SPECIFIED IN ITEM 659 AND IS NOT LIMITED TO JUST TOPSOIL, SEEDING AND MULCHING.

THE CITY SHALL APPROVE SEED MIX PRIOR TO APPLICATION TO BE USED THROUGHOUT CONSTRUCTION LIMITS.

ITEM 603SPEC - PIPE CLEANOUT

THIS WORK SHALL CONSIST OF REMOVING SEDIMENT AND DEBRIS FROM THE EXISTING CONDUITS SPECIFIED IN THE FIELD. ALL MATERIAL REMOVED SHALL BE DISPOSED OF AS PER 203.05. ALL SEWERS SHALL BE CLEANED OUT TO THE SATISFACTION OF THE ENGINEER.

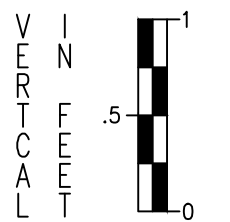
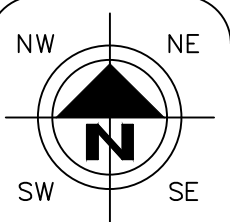
CLEANOUT OF THE PIPE SHALL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL - PIPE CLEANOUT. THIS PRICE SHALL INCLUDE THE COST FOR MATERIAL, EQUIPMENT, LABOR, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CLEANOUT.

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 ABUTTING 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.



HORIZONTAL
SCALE IN FEET

CHECKED BY:
KAD

DATE:
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JTD

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REVISIONS:	DATE	DESCRIPTION
	9/12/23	COMMENTS

Sippo Reserves Allotment Phases 3 & 4
General Notes
City of Massillon
Stark County, Ohio



DRAWING NAME:
General Notes 1
REF NUMBER:

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. 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.

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.

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.

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.

EXCAVATED MATERIAL

ALL EXCAVATED MATERIAL AND ALL MATERIAL USED IN CONSTRUCTION OF THE WORK SHALL BE PILED AND STORED IN A MANNER THAT WILL NOT ENDANGER THE WORK AND THAT WILL LEAVE DRIVEWAYS OR OTHER CONTROLS UNOBSTRUCTED AND ACCESSIBLE WHILE THE WORK IS TO BE COMPLETED. SATISFACTORY PROVISIONS SHALL BE MADE FOR STREET DRAINAGE, AND NATURAL WATERCOURSES SHALL NOT BE OBSTRUCTED. DURING THE PROGRESS OF THE WORK, ALL MATERIAL PILES SHALL BE KEPT TRIMMED UP AND MAINTAINED IN A NEAT MANNER. ALL EXCAVATED WASTE MATERIAL SHALL BE REMOVED FROM THE PROJECT SITE, AS DIRECTED BY THE ENGINEER. THE WASTE SITE IS TO BE PROVIDED BY THE CONTRACTOR AT NO COST TO THE CITY, UNLESS OTHERWISE NOTED IN THE SPECIFICATIONS ALONG WITH A LETTER FROM THE PROPOSED WASTE SITE OWNER SITE, AS DIRECTED BY THE ENGINEER. THE WASTE SITE IS TO BE PROVIDED BY THE CONTRACTOR AT NO COST TO THE CITY, PERMITTING SUCH AND HOLDING THE CITY HARMLESS.

DOWN SPOUTS

ALL DOWN SPOUTS UNABLE TO BE CONNECTED TO THE STORM LATERAL SHALL BE CORE DRILLED THROUGH THE CURB AS PER ENGINEER'S DIRECTION.

CURB OPENING SHALL NOT GREATER THAN A 3 1/2" DIAMETER.

THE WORK ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 609.

WORKING AREA

NO EXCAVATION WITH SIDE SLOPES STEEPER THAN 2:1 AND/OR DEEPER THAN 2' WILL BE PERMITTED. OPEN CASTINGS AND PIPES SHALL BE LEFT SECURED WHEN THE SITE IS UNATTENDED BY THE CONTRACTOR. THE CONTRACTOR SHALL SECURE ALL SUCH EXCAVATIONS, OPEN CASTINGS AND PIPES AGAINST UNAUTHORIZED ENTRY COVERING WITH STEEL PLATES, TEMPORARY BACK FILLING, FENCING AND SECURITY SERVICES SHALL BE INCLUDED IN THE PRICE BID FOR THE WORK. PLATES, TEMPORARY BACK FILLING, FENCING AND SECURITY SERVICES SHALL BE INCLUDED IN THE PRICE BID FOR THE WORK.

ITEM 207SPEC EROSION CONTROL

THE CONTRACTOR SHALL PREPARE AND SUBMIT A STORM WATER POLLUTION CONTROL PLAN TO THE CITY OF MASSILLON ENGINEER TO BE FORWARDED TO THE APPROPRIATE PERMITTING AGENCIES. SAID PLAN MUST COMPLY WITH THE MOST CURRENT RULES AND REGULATIONS OF THE CITY OF MASSILLON.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTING AND MAINTAINING STORM WATER POLLUTION CONTROL PLAN 24 HOURS A DAY FOR THE DURATION OF THIS PROJECT. ALL DEVICES (SILT FENCE, INLET PROTECTION, ROCK CHANNEL, ETC.) SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR.

THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR ITEM 207SPEC - EROSION CONTROL

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 OWNER AND/OR ENGINEER. ALL WORK SHALL COMPLY WITH THE CONDITIONS OF THE CONTRACT DOCUMENTS, 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 ABUTTING 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 BE IN ACCORDANCE WITH CURRENT CITY OF MASSILLON RULES AND REGULATIONS AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

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.

REMOVAL OF TREES OR STUMPS

ALL TREES AND STUMPS REMOVED DURING CONSTRUCTION SHALL BE UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THIS SHALL INCLUDE ALL TREES AND STUMPS WITHIN THE CONSTRUCTION LIMITS UNLESS OTHERWISE STATED BY CITY REPRESENTATIVE.

CONCRETE REMOVAL

ALL EXISTING CONCRETE INCLUDING CURBS, DRIVES, AND BASE ETC. WITHIN WORK LIMITS SHALL BE REMOVED AND PAID FOR UNDER:

ITEM 203 EXCAVATION INCLUDING ROADWAY

ITEM 614SPEC MAINTAINING TRAFFIC

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING AND MAINTAINING SAFE AND EFFECTIVE TRAFFIC CONTROL 24 HOURS A DAY FOR THE DURATION OF THIS PROJECT. ALL TRAFFIC CONTROL DEVICES (PAVEMENT MARKINGS, SIGNS, BARRELS, CONES, ETC.) SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR.

THE CONTRACTOR SHALL DEVISE A MAINTENANCE OF TRAFFIC SCHEME WHICH SHALL BE STAMPED BY A PROFESSIONAL ENGINEER, AND PRESENT IT TO THE ENGINEER FOR APPROVAL. THE MAINTENANCE OF TRAFFIC SCHEME SHALL PRESENT, IN GENERAL, THE METHOD FOR CONDUCTING THE REQUIRED WORK IN A SAFE AND EFFICIENT MANNER.

THE PLANS SHALL INCLUDE THE FOLLOWING COMPONENTS:

- PLAN VIEW AT AN APPROPRIATE SCALE TO SHOW:
- WORK AREA
 - BEGIN/END STATIONING OF TAPERS, TEMPORARY MARKINGS, ETC.
 - TEMPORARY PAVEMENT
 - LOCATIONS OF SIGNS (EXISTING OVERHEAD SIGNS AND ALL PROPOSED, COVERED, OR MODIFIED SIGNS)
 - LOCATIONS OF TYPICAL SECTIONS
 - REFERENCES TO APPLICABLE STANDARD DRAWINGS
- TYPICAL SECTIONS SHOWING:
- LANE WIDTHS, PAVEMENT MARKINGS, DRUMS, PCB, ETC.
 - LIMITING STATIONS
 - WORK AREA AND DROP-OFFS
- SIGN DETAILS FOR PROPOSED SIGNS AND OVERLAYS/MODIFACATIONS

THE MAINTENANCE OF TRAFFIC SCHEME SHALL BE IN CONFORMANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST REVISION. THE REFERENCED STANDARD CONSTRUCTION DRAWINGS INCLUDING DESIGNER NOTES, THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMS), POLICY NO. 516-003(P) TRAFFIC MANAGEMENT IN WORK ZONES INTERSTATE AND OTHER FREEWAYS, ODOT REVIEW AND DESIGN MANUAL, VOLUME 1, AND ALL REQUIREMENTS DETAILED IN THESE PLANS.

THIS SUBMITTAL SHALL CONSIST OF THREE (3) COPIES OF THE PLANS FOR REVIEW AND DISTRIBUTION. NO WORK SHALL BEGIN AT THE LOCATION UNTIL THE MAINTENANCE OF TRAFFIC PLANS HAVE BEEN APPROVED BY THE CITY OF MASSILLON ENGINEER.

THE PROGRESS SCHEDULE WILL BE REQUIRED TO APPROVE THE MAINTENANCE OF TRAFFIC PLANS. THIS SCHEDULE OF OPERATIONS SHALL DETAIL THE CONTRACTOR'S WORK ACTIVITIES AND HIS METHODS OF MAINTAINING TRAFFIC DURING THESE ACTIVITIES. MAINTENANCE OF TRAFFIC PLANS SHALL BE PREPARED AND SUBMITTED TO THE CITY OF MASSILLON ENGINEER FOR APPROVAL. THESE PLANS SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE CITY SHALL HAVE 14 CALENDAR DAYS TO REVIEW AND COMMENT ON THESE PLANS. THE CONTRACTOR SHALL NOT BEGIN ANY WORK REQUIRING TRAFFIC CONTROL UNTIL THE ENGINEER HAS GIVEN APPROVAL OF THE CONTRACTOR'S SEQUENCE OF OPERATIONS AND MAINTENANCE OF TRAFFIC PLANS.

THE MAINTENANCE OF TRAFFIC SCHEME SHALL TAKE INTO CONSIDERATION SNOW AND ICE OPERATIONS FROM DECEMBER 1 THROUGH MARCH 31. LANE SHIFTS, RESTRICTIONS, AND CLOSURES MAY NOT BE APPROVED IF THEY ADVERSELY AFFECT SNOW REMOVAL OPERATIONS.

THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR ITEM 614 - MAINTAINING TRAFFIC, AS PER PLAN.

FINAL APPROVAL

A VIDEO IN THE FORM OF DVD WILL BE MADE BY THE CONTRACTOR AND SUBMITTED TO THE CITY OF MASSILLON ENGINEER PRIOR TO THE PROJECT COMMENCING. AFTER THE FINAL INVOICE IS SUBMITTED THE SITE SHALL BE VIDEOED AGAIN BY THE CONTRACTOR. ANY DISCREPANCIES WILL BE RESOLVED PRIOR TO FINAL PAYMENT. AS BUILT DRAWINGS SHALL BE CREATED BY THE CONTRACTOR AND SUBMITTED TO THE CITY OF MASSILLON ENGINEER IN A CLEAR AND LEGENDABLE MANNER PRIOR TO FINAL INVOICE.

COST OF THIS WORK SHALL BE INCLUDED IN ITEM 623 CONSTRUCTION STAKING

SANITARY SEWER SPECIFICATIONS

SANITARY SEWER CONSTRUCTION PROPOSED FOR THIS PROJECT SHALL CONFORM TO THE LATEST CITY OF MASSILLON STANDARDS AND CONSTRUCTION AND MATERIALS SPECIFICATIONS, TEN STATE STANDARDS, AND THE LATEST EDITION OF THE ODOT CMS, OR MODIFIED BY THE CONTRACT DRAWINGS. IF A CONFLICT ARISES BETWEEN SAID STANDARDS IT SHALL BE AT THE DISCRETION OF THE CITY OF MASSILLON ENGINEER AS TO WHICH STANDARD SHALL GOVERN. THE PROJECT CONTRACT DRAWINGS SHALL GOVERN UNLESS NOTED OTHERWISE.

SANITARY GRAVITY SEWER PIPE AND FITTINGS SHALL BE PVC SDR 35 CONFORMING TO ASTM D-3034 UNLESS OTHERWISE NOTED. PVC COMPOUNDS SHALL CONFORM TO ASTM D-1784 PVC PIPE AND FITTINGS SHALL HAVE BELL AND SPIGOT TYPE JOINTS CONFORMING TO ASTM D-3212 AND GASKETS CONFORMING TO ASTM F-477

BACKFILL IN SEWER TRENCHES SHALL CONFORM TO ODOT ITEM 603.10 AND BE PLACED IN LAYERS SUFFICIENT TO MEET THE COMPACTION REQUIREMENT OF 100% OF MAXIMUM LABORATORY DRY DENSITY PER ASTM D-698 AND THOROUGHLY COMPACTED WITH MACHINE MOUNDED COMPACTION EQUIPMENT. THE PLACING OF BACKFILL MATERIAL SHALL BE CONTINUED UNTIL THE TRENCH IS ENTIRELY FILLED AND COMPACTED WITH THE APPROVED GRANULAR MATERIAL TO THE GRADE CALLED FOR ON THE CONTRACT DRAWINGS. EXCAVATED MATERIAL CONFORMING TO ODOT ITEM 203 SHALL BE USED FOR BACKFILLING EXISTING STRUCTURES (AFTER REMOVAL) ONLY. CRUSHED GRAVEL CONFORMING TO GRADATION REQUIREMENTS OF ODOT ITEM 304 OR APPROVED EQUAL AS SHOWN IN ODOT TABLE 703-1 SHALL BE USED FOR BACKFILLING ALL SEWER TRENCH AREAS SHOWN ON THE PLANS AND AS DIRECTED BY THE CITY OF MASSILLON ENGINEER. FLOODING, JETTING, OR PUDDLING OF BACKFILL MATERIAL WILL NOT BE PERMITTED UNLESS APPROVED BY THE CITY OF MASSILLON ENGINEER. COMPACTION TESTING OF THE BACKFILL BY A GEOTECHNICAL ENGINEER MAY BE REQUIRED BY THE OWNER AT THE EXPENSE OF THE CONTRACTOR. THE BEDDING SHALL COMFORM TO ASTM D2321.

SANITARY SEWERS SHALL BE AIR TESTED FOR LEAKAGE AND MANDREL TESTED FOR DEFLECTION. THE MAXIMUM ALLOWABLE PIPE DEFLECTION SHALL BE 5%.

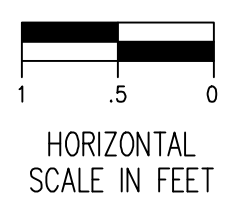
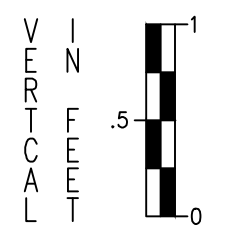
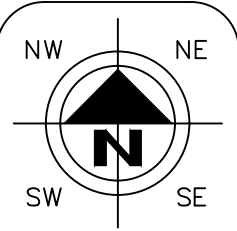
PRIOR TO FINAL PAYMENT FOR AND ACCEPTANCE OF SANITARY SEWER INSTALLATION THE RESULTS OF THE AIR PRESSURE TESTS, TELEVISION TESTS AND MADREL TESTS SHALL BE FORWARDED TO THE CITY OF MASSILLON ENGINEER.

DEFLECTION TESTING

MAXIMUM ALLOWABLE PIPE DEFLECTION (REDUCTION IN VERTICAL INSIDE DIAMETER) SHALL BE 5%. DEFLECTION TESTS OF PIPE SHALL BE PERFORMED NOT SOONER THAN 30 DAYS AFTER THE BACKFILL HAS BEEN PROPERLY PLACED AND BEFORE FINAL ACCEPTANCE. LOCATIONS WITH EXCESS DEFLECTION SHALL BE EXCAVATED AND REPAIRED BY RE-BEDDING OR REPLACEMENT OF THE PIPE AT THE CONTRACTOR'S EXPENSE. DEVICES FOR TESTING INCLUDE A DEFLECTOMETER METER, OR PROPERLY SIZED (60, NO-GO) MANDREL OR SEWER BALL.THE DEFLECTION TESTING MUST BE CONDUCTED WITHOUT MECHANICAL PULLING DEVICES. FOR THE PURPOSE OF DEFLECTION MEASUREMENTS, THE BASE INSIDE PIPE DIAMETERS WITHOUT DEFLECTION ARE PROVIDED IN TABLE A. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE APPLIED TO THE BASE INSIDE DIAMETER IN DETERMINING THE MINIMUM PERMISSIBLE DIAMETER. IT MUST BE EMPHASIZED THAT TO INSURE ACCURATE TESTING, THE LINES MUST BE THOROUGHLY CLEANED.

TABLE A
INSIDE DIAMETERS FOR DEFLECTION MEASUREMENTS
OF ASTM D 3034 SDR 35 / SDR 21 PVC SEWER PIPE

SIZE	SDR	AVG. O.D.	BASE I.D.	DEFLECTION MANDREL
6"	35	6.275	5.742	5.54
8"	35	8.400	7.665	7.28
10"	35	10.500	9.563	9.08
12"	35	12.500	11.361	10.79



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TELEVISION TESTING

ALL SANITARY SEWERS, 8-INCH DIAMETER AND LARGER, MUST PASS AN INTERNAL TELEVISION INSPECTION. THE CONTRACTOR SHALL PROVIDE A COMPLETE INTERNAL INSPECTION DVD TO THE STARK COUNTY AND CITY OF MASSILLON SANITARY DEPARTMENT. THE RECORDING PROCEDURE SHALL BE IN ACCORDANCE WITH STARK COUNTY SANITARY DEPARTMENT STANDARDS.

LEAKAGE TESTS

LEAKAGE TESTS SHALL BE PERFORMED WHICH MAY INCLUDE APPROPRIATE WATER OR LOW PRESSURE AIR TESTING. THE TESTING METHODS SELECTED SHOULD TAKE INTO CONSIDERATION THE RANGE IN GROUNDWATER ELEVATIONS DURING THE TEST AND ANTICIPATED DURING THE DESIGN LIFE OF THE SEWER COMPLETED AND ACCEPTED.

WATER (HYDROSTATIC) TEST

THE LEAKAGE EXFILTRATION OR INFILTRATION SHALL NOT EXCEED 100 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY [9L/(MM OF PIPE DIAMETER KM D)] FOR ANY SECTION OF THE SYSTEM. AN EXFILTRATION OR INFILTRATION TEST SHALL BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET (0.6 M).

AIR TESTING AS PER ASTM F1417

AIR TESTING WILL BE CONDUCTED AS THE PROJECT IS BEING CONSTRUCTED. AT NO TIME WILL MORE THAN 900 FEET OF PIPE BE INSTALLED BEFORE AIR TESTING IS PERFORMED. SEWAGE WILL NOT BE DIVERTED TO ANY SECTION OF PIPE, REGARDLESS OF LENGTH, UNTIL ALL TESTING IS COMPLETED AND ACCEPTED.

AFTER BACKFILLING A MANHOLE TO MANHOLE REACH OF SANITARY SEWER LINE, THE CONTRACTOR SHALL, AT HIS EXPENSE, CONDUCT THE LINE ACCEPTANCE TESTS. THE TESTS SHALL BE PERFORMED ACCORDING TO THE STATED PROCEDURES AND UNDER THE SUPERVISION OF THE STARK COUNTY SANITARY ENGINEER OR HIS REPRESENTATIVE.

EQUIPMENT USED SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS AND BE APPROVED BY THE STARK COUNTY SANITARY ENGINEER:

1. PNEUMATIC PLUGS SHALL HAVE A SEALING LENGTH EQUAL TO OR A GREATER THAN THE DIAMETER OF THE PIPE BEING INSPECTED.
2. PNEUMATIC PLUGS SHALL RESIST INTERNAL TEST PRESSURES WITHOUT REQUIRED EXTERNAL BRACING OR BLOCKING.
3. ALL AIR USED SHALL PASS THROUGH A SINGLE CONTROL PANEL.
4. THREE INDIVIDUAL HOSES SHALL BE USED FOR THE FOLLOWING CONNECTIONS:
 - a. FROM CONTROL PANEL TO PNEUMATIC PLUGS FOR INFLATION.
 - b. FROM CONTROL PANEL TO SEALED LINE FOR INTRODUCING THE LOW PRESSURE AIR.
 - c. FROM SEALED LINE TO CONTROL PANEL FOR CONTINUALLY MONITORING AIR PRESSURE RISE IN THE SEALED LINE.

ALL PNEUMATIC PLUGS SHALL BE SEAL TESTED BEFORE BEING USED IN THE ACTUAL TEST INSTALLATION. ONE LENGTH OF PIPE SHALL BE LAID ON THE GROUND AN SEALED AT BOTH ENDS WITH THE PNEUMATIC PLUGS TO BE CHECKED. THE SEALED PIPE SHALL BE PRESSURED TO 5 PSIG. THE PLUGS MUST HOLD AGAINST THIS PRESSURE WITHOUT HAVING TO BE BRACED.

AFTER A MANHOLE TO MANHOLE REACH OF PIPE HAS BEEN BACKFILLED AND CLEANED, AND THE PNEUMATIC PLUGS ARE CHECKED BY THE ABOVE PROCEDURE, THE PLUGS SHALL BE PLACED IN THE LINE AT EACH MANHOLE. LOW PRESSURE AIR SHALL BE SLOWLY INTRODUCED INTO THIS SEALED LINE UNTIL THE INTERNAL AIR PRESSURE REACHES APPROXIMATELY 4 PSIG.

AT LEAST TWO MINUTES SHALL BE ALLOWED FOR THE AIR PRESSURE TO STABILIZE. WHEN THE PRESSURE HAS STABILIZED AND IS AT OR ABOVE 3.5 PSIG, THE AIR HOSE FROM THE CONTROL PANEL TO THE AIR SUPPLY SHALL BE DISCONNECTED. THE PORTION OF THE LINE BEING TESTED SHALL BE TERMED "ACCEPTABLE" IF THE TIME REQUIRED IN MINUTES FOR THE PRESSURE TO DECREASE FROM 3.5 TO 2.5 PSIG (GREATER THEN THE AVERAGE BACK PRESSURE OF ANY GROUNDWATER THAT MAY BE OVER THE PIPE) SHALL NOT BE LESS THAN THE TIME SHOWN FOR THE GIVEN DIAMETERS IN THE FOLLOWING TABLE:

PIPE DIAMETER IN.	MINIMUM TIME MINUTES	LENGTH FOR MINUTES TIME, FT.	TIME FOR LONGER LENGTH, S	SPECIFICATION TIME LENGTH (L) SHOWN, MINUTES							
				100 FT.	150 FT.	200 FT.	250 FT.	300 FT.	350 FT.	400 FT.	450 FT.
4	3:46	597	0.380 L	3:46	3:46	3:46	3:46	3:46	3:46	3:46	3:46
6	5:40	398	0.854 L	5:40	5:40	5:40	5:40	5:40	5:40	5:42	6:24
8	7:34	298	1.520 L	7:34	7:34	7:34	7:36	7:36	8:52	10:08	11:24
10	9:26	239	2.374 L	9:26	9:26	9:26	9:53	11:52	13:51	15:49	17:48
12	11:20	198	3.416 L	11:20	11:20	11:24	14:15	17:05	19:56	22:47	25:38
15	14:10	159	6.342 L	14:10	14:10	17:46	22:15	26:42	31:09	35:36	40:04
18	17:0	133	7.692 L	17:00	19:13	25:38	32:09	38:27	44:52	51:16	57:41
21	19:50	114	10.470 L	19:50	26:10	36:54	43:37	52:21	XX:XX	69:48	78:31
24	22:40	99	13.674 L	22:47	34:11	45:34	56:58	68:22	76:46	91:10	102:33
27	25:30	88	17.306 L	28:51	43:16	57:41	72:07	86:32	100:57	115:22	129:48
30	28:20	80	21.366 L	35:37	53:25	71:13	89:02	106:50	124:38	142:26	160:15
33	31:10	72	25.852 L	49:05	64:38	86:10	107:43	129:16	150:43	172:21	193:53
36	34:00	66	30.768 L	51:17	76:55	102:34	128:12	153:50	170:29	205:07	230:46

IN AREAS WHERE GROUND WATER IS KNOWN TO EXIST, THE CONTRACTOR SHALL INSTALL A 1/2 INCH DIAMETER CAPPED PIPE NIPPLE APPROXIMATELY 10 INCHES LONG, THROUGH THE MANHOLE WALL ON TOP OF ONE OF THE SANITARY SEWER LINES ENTERING THE MANHOLE. THIS SHALL BE DONE AT THE TIME THE SANITARY SEWER LINE IS INSTALLED. IMMEDIATELY PRIOR TO THE PERFORMANCE OF THE LINE ACCEPTABILITY TEST, THE GROUND WATER SHALL BE DETERMINED BY REMOVING THE PIPE CAP, BLOWING AIR THROUGH THE PIPE NIPPLE IN THE GROUND SO AS TO CLEAR IT, AND THEN CONNECTING A CLEAR PLASTIC TUBE TO THE NIPPLE. THE PLASTIC TUBE SHALL BE VERTICAL AND A MEASUREMENT OF THE HEIGHT, IN FEET OF WATER OVER THE INVERT OF THE PIPE, SHALL BE TAKEN AFTER THE WATER HAS STOPPED RISING IN THIS PLASTIC TUBE. THE HEIGHT, IN FEET OF WATER OVER THE INVERT OF THE PIPE, SHALL BE TAKEN AFTER THE WATER HAS STOPPED RISING IN THIS PLASTIC TUBE. AIR TEST PRESSURE IS TO BE INCREASED BY 0.433 PSI FOR EACH FOOT THE GROUND WATER IS ABOVE THE INVERT OF THE SEWER LINE BEING TESTED. THE ALLOWABLE DROP OF ONE POUND AND THE TIMING OF THE TEST REMAIN THE SAME.

IF A LINE ACCEPTABILITY TEST IS BEING CONDUCTED ON MORE THAN ONE MANHOLE REACH OF PIPE, THE ENTIRE SECTION BEING TESTED SHALL MEET THE LINE ACCEPTABILITY REQUIREMENTS AS IF ONLY ONE (1) OF THE MANHOLE REACHES IN THE SECTION WERE BEING TESTED.

NEGATIVE AIR PRESSURE (VACUUM) TESTING OF MANHOLES AS PER ASTM C-1244

PREPARATION OF THE MANHOLE:

- A. ALL LIFT HOLES SHALL BE PLUGGED
- B. ALL PIPES ENTERING THE MANHOLE SHALL BE TEMPORARILY PLUGGED, TAKING CARE TO SECURELY BRACE THE PIPE AND PLUGS TO PREVENT THEM FROM BEING DRAWN INTO THE MANHOLE

PROCEDURE:

- A. THE TEST HEAD SHALL BE PLACED AT THE TOP OF THE MANHOLE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- B. A VACUUM OF 10 IN. OF MERCURY SHALL BE DRAWN ON THE MANHOLE, THE VALVE ON THE VACUUM LINE OF THE TEST HEAD CLOSED, AND THE VACUUM PUMP SHUT OFF. THE TIME SHALL BE MEASURED FOR THE VACUUM TO DROP TO 9 IN OF MERCURY.
- C. THE MANHOLE SHALL PASS IF THE TIME FOR THE VACUUM READING TO DROP FROM 10 IN. OF MERCURY TO 9 IN. OF MERCURY MEETS OR EXCEEDS THE VALUES INDICATED IN TABLE BELOW.

MINIMUM TEST TIMES FOR MANHOLES									
DEPTH (FT)	DIAMETER, IN.								
	30	33	36	42	48	54	60	66	72
TIME, IN SECONDS									
8	11	12	14	17	20	23	26	29	33
10	14	15	18	21	25	29	33	36	41
12	17	18	21	25	30	35	39	43	49
14	20	21	25	30	35	41	46	51	57
16	22	24	39	34	40	46	52	58	67
18	25	27	32	38	45	52	59	65	73
20	28	30	35	42	50	53	65	72	81

CLEAN WATER STATEMENT

ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.

COMMENCING, AFTER THE FINAL INVOICE IS SUBMITTED THE SITE SHALL BE VIDEOED AGAIN BY THE CONTRACTOR. ANY DISCREPANCIES WILL BE RESOLVED PRIOR TO FINAL PAYMENT. AS BUILT DRAWINGS SHALL BE CREATED BY THE CONTRACTOR AND SUBMITTED TO THE CITY OF STARK COUNTY SANITARY ENGINEER IN A CLEAR AND LEGIBLE MANNER PRIOR TO FINAL INVOICE.

COST OF THIS WORK SHALL BE INCLUDED IN ITEM 623 CONSTRUCTION STAKING

RELATION TO WATERMAINS

SEWERS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE.

SEWERS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER.

STARK COUNTY SANITARY FOR SCSD 27-15

CONNECTIONS TO EXISTING MANHOLES

(SEC. 16.09) ITEM 16C: WHERE EXISTING MANHOLES REQUIRE CONNECTIONS FOR PROPOSED SANITARY SEWER, THE CONTRACTOR SHALL CORE DRILL MANHOLES FOR OPENINGS REQUIRED, IF OPENINGS DO NOT EXIST. INLET AND OUTLET PIPES SHALL BE CONNECTED TO NEW AND EXISTING MANHOLES WITH A GASKETED FLEXIBLE WATERTIGHT CONNECTION SATISFYING ASTM C425 AND C443. KOR-N-SEAL BOOTS BY NPC, A-LOK PRODUCTS OR APPROVED EQUAL SHALL BE USED. ANY REWORK OF THE EXISTING MANHOLE BENCH REQUIRED TO PROVIDE A NEW CHANNEL FOR THE PROPOSED CONNECTION SHALL BE SUPPLIED. ANY BYPASSING OF FLOWS REQUIRED TO PERFORM THIS WORK SHALL ALSO BE SUPPLIED.

OHIO EPA NOTES

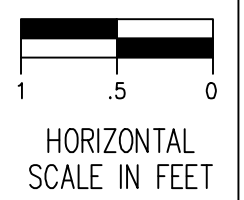
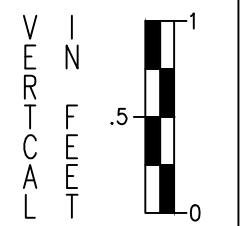
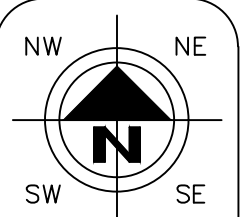
1. THE PROPOSED SANITARY SEWER MUST MAINTAIN A 10' HORIZONTAL SEPARATION FROM ALL WATER LINES. WHEN CROSSING A WATER LINE, A VERTICAL CLEARANCE OF 18" MUST BE MAINTAINED.
2. THE PROPOSED STORM SEWER MUST MAINTAIN A 10' HORIZONTAL SEPARATION FROM ALL WATER LINES. WHEN CROSSING A WATER LINE, A VERTICAL CLEARANCE OF 18" MUST BE MAINTAINED.
3. THE FLEXIBLE GASKET SPECIFICATION FOR SEWER CONNECTIONS SHALL CONFORM TO ASTM C-923.

DUST CONTROL

THE CONTRACTOR SHALL BE RESPONSIBLE TO PROPERLY CONTROL DUST FROM THE PROJECT SITE AS NECESSARY/ REQUIRED TO MAINTAIN SAFE VISIBILITY WITHIN AND/OR ADJACENT TO THE SITE AND AVOID IMPACT ON DAILY OPERATIONS. METHODS FOR DUST CONTROL MUST BE APPROVED BY THE ENGINEER AND OWNER.

CONTRACTOR WORKING HOURS

THE CONTRACTOR (AND SUBCONTRACTOR) SHALL MAINTAIN REGULAR WORKING HOURS RESTRICTED TO 7:00 AM TO 7:00 PM.



HORIZONTAL
SCALE IN FEET

CHECKED BY:
KAD

DATE:
FEB. 2023

DRAWN BY:
JTD

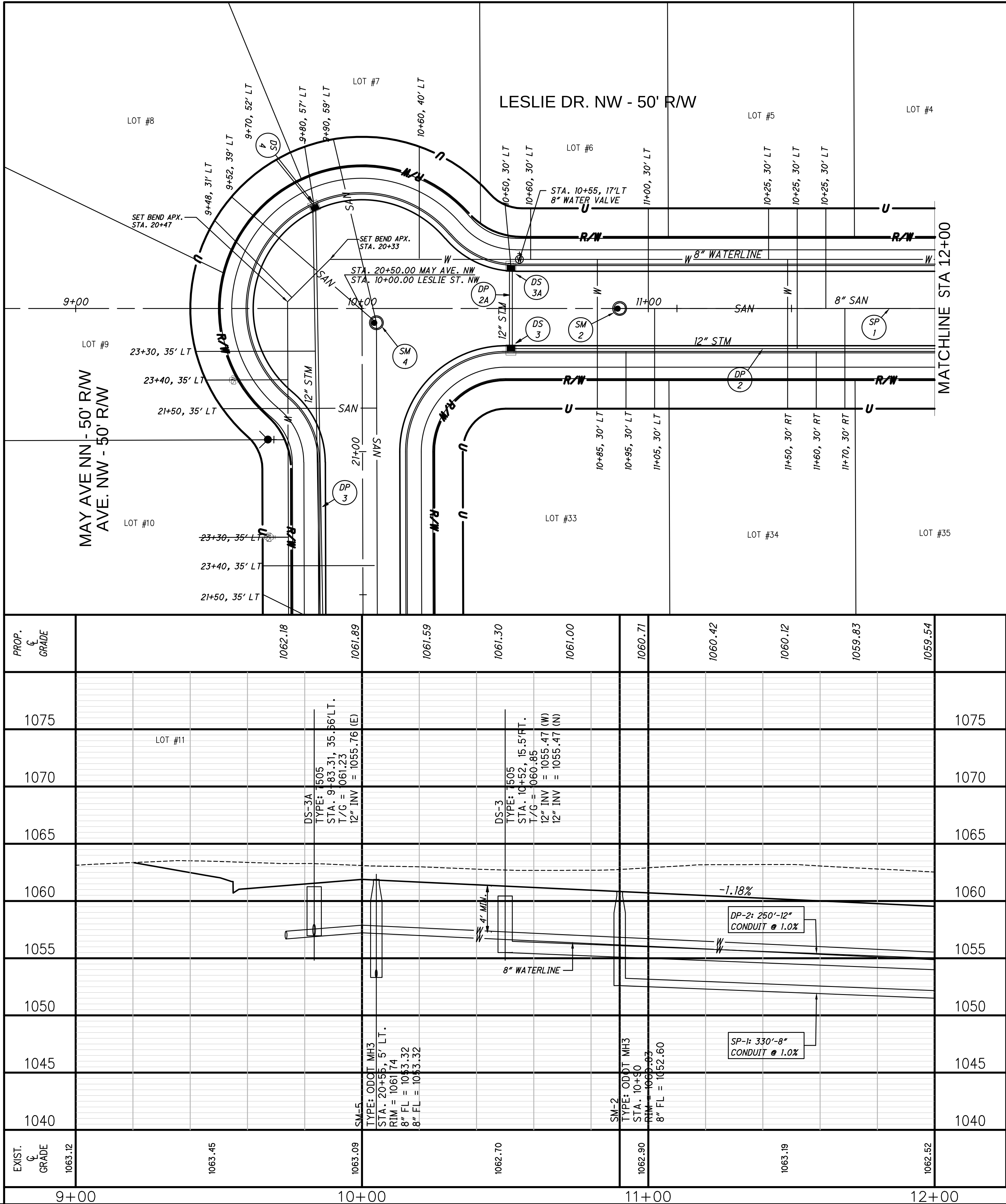
DATE:
FEB. 2023

REVISIONS:	DATE	DESCRIPTION	COMMENTS
	9/12/23		

Sippo Reserves Allotment Phases 3 & 4
General Notes
City of Massillon
Stark County, Ohio



DRAWING NAME:
General Notes 3
REF NUMBER:



A: SANITARY = DISTANCE FROM DOWNSTREAM MANHOLE
STORM = DISTANCE FROM DOWNSTREAM DRAINAGE STRUCTURE
WATER = STATION LOCATION
B: SANITARY = DISTANCE FROM MAIN
STORM = DISTANCE FROM MAIN
WATER = DISTANCE FROM MAIN

- NOTES
1. WATER MAINS MUST INSTALLED A MINIMUM OF 4' UNDERGROUND AND IF NECESSARY, MUST BE DEFLECTED TO PROVIDE AN 18" MINIMUM CLEARANCE FROM ALL STORM AND SANITARY MAINS AT CROSSING POINTS.
 2. WYES SHALL BE INSTALLED FOR ALL SANITARY LATERALS.

EXIST. GRADE	PROF. GRADE	1075	1070	1065	1060	1055	1050	1045	1040		
1063.12	1063.45	1062.18	1061.89	1061.59	1061.30	1061.00	1060.71	1060.42	1060.12	1059.83	1059.54
9+00	10+00	10+50	11+00	11+50	12+00	12+50	13+00	13+50	14+00	14+50	15+00

LOT #11

TYPE: 1505
STA. 9+83.31, 35.56' LT.
T/G = 061.23
12" INV = 1055.76 (E)

TYPE: 1505
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T/G = 060.85
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T/G = 060.85
12" INV = 1055.47 (W)
12" INV = 1055.47 (N)

TYPE: 1505
STA. 10+52, 15.5' RT.
T/G = 060.85
12" INV = 1055.47 (W)
12" INV = 1055.47 (N)

TYPE: 1505
STA. 10+52, 15.5' RT.
T/G = 060.85
12" INV = 1055.47 (W)
12" INV = 1055.47 (N)

TYPE: 1505
STA. 10+52, 15.5' RT.
T/G = 060.85
12" INV = 1055.47 (W)
12" INV = 1055.47 (N)

TYPE: 1505
STA. 10+52, 15.5' RT.
T/G = 060.85
12" INV = 1055.47 (W)
12" INV = 1055.47 (N)

TYPE: 1505
STA. 10+52, 15.5' RT.
T/G = 060.85
12" INV = 1055.47 (W)
12" INV = 1055.47 (N)

TYPE: 1505
STA. 10+52, 15.5' RT.
T/G = 060.85
12" INV = 1055.47 (W)
12" INV = 1055.47 (N)

TYPE: 1505
STA. 10+52, 15.5' RT.
T/G = 060.85
12" INV = 1055.47 (W)
12" INV = 1055.47 (N)

TYPE: 1505
STA. 10+52, 15.5' RT.
T/G = 060.85
12" INV = 1055.47 (W)
12" INV = 1055.47 (N)

TYPE: 1505
STA. 10+52, 15.5' RT.
T/G = 060.85
12" INV = 1055.47 (W)
12" INV = 1055.47 (N)

TYPE: 1505
STA. 10+52, 15.5' RT.
T/G = 060.85
12" INV = 1055.47 (W)
12" INV = 1055.47 (N)

TYPE: 1505
STA. 10+52, 15.5' RT.
T/G = 060.85
12" INV = 1055.47 (W)
12" INV = 1055.47 (N)

TYPE: 1505
STA. 10+52, 15.5' RT.
T/G = 060.85
12" INV = 1055.47 (W)
12" INV = 1055.47 (N)

TYPE: 1505
STA. 10+52, 15.5' RT.
T/G = 060.85
12" INV = 1055.47 (W)
12" INV = 1055.47 (N)

TYPE: 1505
STA. 10+52, 15.5' RT.
T/G = 060.85
12" INV = 1055.47 (W)
12" INV = 1055.47 (N)

TYPE: 1505
STA. 10+52, 15.5' RT.
T/G = 060.85
12" INV = 1055.47 (W)
12" INV = 1055.47 (N)

TYPE: 1505
STA. 10+52, 15.5' RT.
T/G = 060.85
12" INV = 1055.47 (W)
12" INV = 1055.47 (N)

TYPE: 1505
STA. 10+52, 15.5' RT.
T/G = 060.85
12" INV = 1055.47 (W)
12" INV = 1055.47 (N)

TYPE: 1505
STA. 10+52, 15.5' RT.
T/G = 060.85
12" INV = 1055.47 (W)
12" INV = 1055.47 (N)

TYPE: 1505
STA. 10+52, 15.5' RT.
T/G = 060.85
12" INV = 1055.47 (W)
12" INV = 1055.47 (N)

TYPE: 1505
STA. 10+52, 15.5' RT.
T/G = 060.85
12" INV = 1055.47 (W)
12" INV = 1055.47 (N)

TYPE: 1505
STA. 10+52, 15.5' RT.
T/G = 060.85
12" INV = 1055.47 (W)
12" INV = 1055.47 (N)

TYPE: 1505
STA. 10+52, 15.5' RT.
T/G = 060.85
12" INV = 1055.47 (W)
12" INV = 1055.47 (N)

TYPE: 1505
STA. 10+52, 15.5' RT.
T/G = 060.85
12" INV = 1055.47 (W)
12" INV = 1055.47 (N)

TYPE: 1505
STA. 10+52, 15.5' RT.
T/G = 060.85
12" INV = 1055.47 (W)
12" INV = 1055.47 (N)

TYPE: 1505
STA. 10+52, 15.5' RT.
T/G = 060.85
12" INV = 1055.47 (W)
12" INV = 1055.47 (N)

TYPE: 1505
STA. 1

MS

N

SE

SW

0

5

10

15

20

0

10

20

HORIZONTAL SCALE IN FEET

CHECKED BY:

KAD

DATE:

Mar, 2023

DRAWN BY:

JTD

DATE:

Mar, 2023

REVISIONS:

DATE	DESCRIPTION	COMMENTS
9/12/23		
10/24/23		

Sippo Reserves Phase 3 & 4

Leslie Dr NW 9+50 to Sta. 12+00 Plan and Profile

City of Massillon

Stark County, Ohio

CIVIPRO

ENGINEERING

ENGINEERS-SURVEYORS-CONSTRUCTION MANAGERS

4459 BELDEN VILLAGE STREET NW, SUITE 800 CANTON, OH 44705

PHONE (224) 410-2500 FAX (224) 410-2501

WWW.CIVIPROENGINEERING.COM

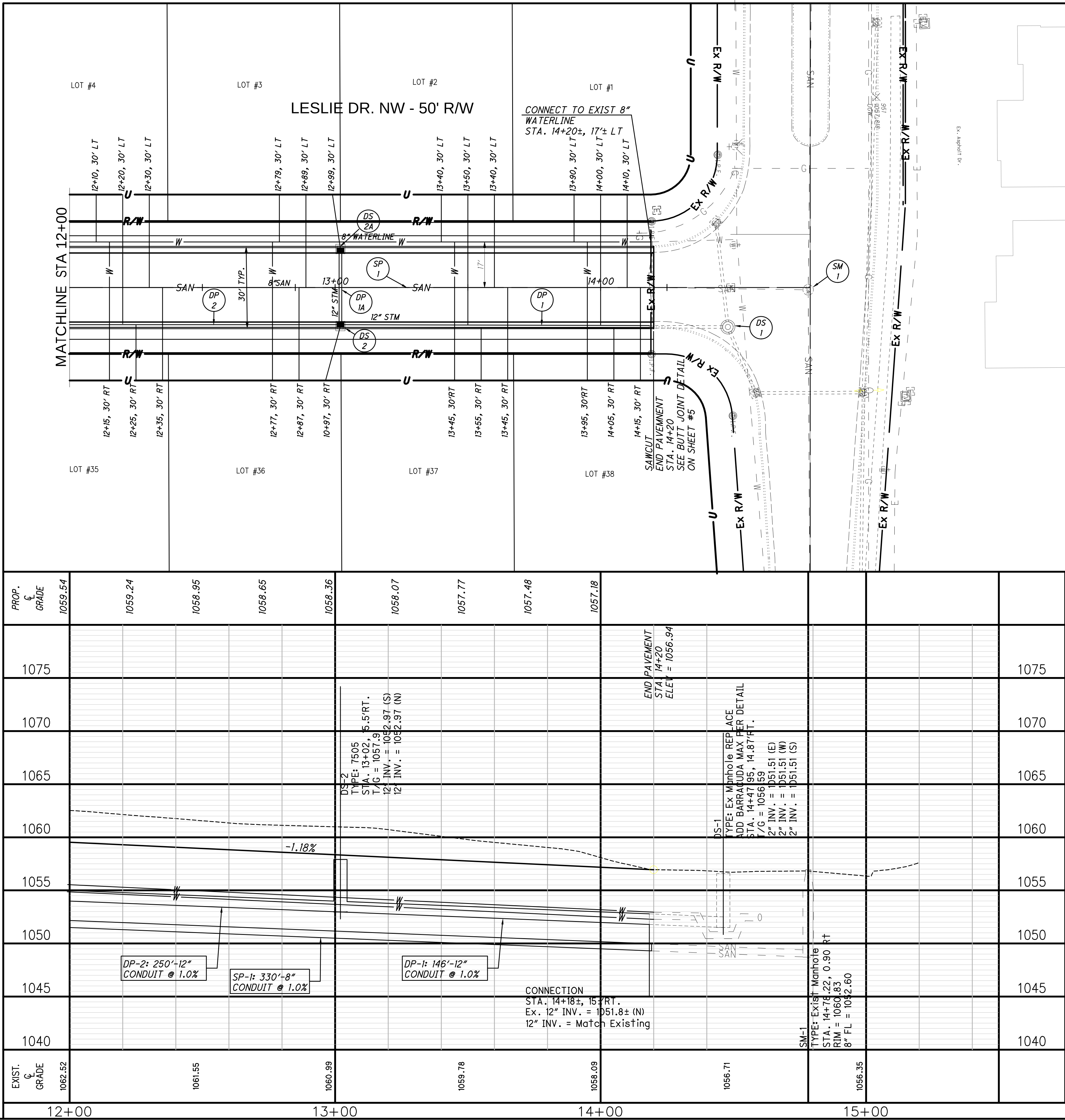
DRAWING NAME:

Leslie Ave PP1

REF NUMBER:

9

39



A: SANITARY = DISTANCE FROM DOWNSTREAM MANHOLE
STORM = DISTANCE FROM DOWNSTREAM DRAINAGE STRUCTURE
WATER = STATION LOCATION
B: SANITARY = DISTANCE FROM MAIN
STORM = DISTANCE FROM MAIN
WATER = DISTANCE FROM MAIN

- NOTES
1. WATER MAINS MUST BE INSTALLED A MINIMUM OF 4' UNDERGROUND AND IF NECESSARY, MUST BE DEFLECTED TO PROVIDE AN 18" MINIMUM CLEARANCE FROM ALL STORM AND SANITARY MAINS AT CROSSING POINTS.
 2. WYES SHALL BE INSTALLED FOR ALL SANITARY LATERALS.
 3. CONTRACTOR SHALL REPAIR ALL PAVEMENT DISTURBED AT DS-1 FOR THE INSTALLATION OF THE BARRACUDA MAX.

MS

35

NE

10

5

0

1"=50'-0"

0

10

20

HORIZONTAL SCALE IN FEET

CHECKED BY:

KAD

DATE:

Mar, 2023

DRAWN BY:

JTD

DATE:

Mar, 2023

REVISIONS:

DATE	DESCRIPTION	COMMENTS
9/12/23		

Sippo Reserves Phase 3 & 4

Leslie Ave NW 12+00 to Sta. 15+00 Plan and Profile

City of Massillon
Stark County, Ohio

CIVIPRO

ENGINEERING

ENGINEERS-SURVEYORS-CONSTRUCTION MANAGERS

4459 BELDEN VILLAGE STREET NW, SUITE 800 CANTON, OH 44705

PHONE: (234) 410-3913 EMAIL: KAD@CIVIPROENGINEERING.COM

WWW.CIVIPROENGINEERING.COM

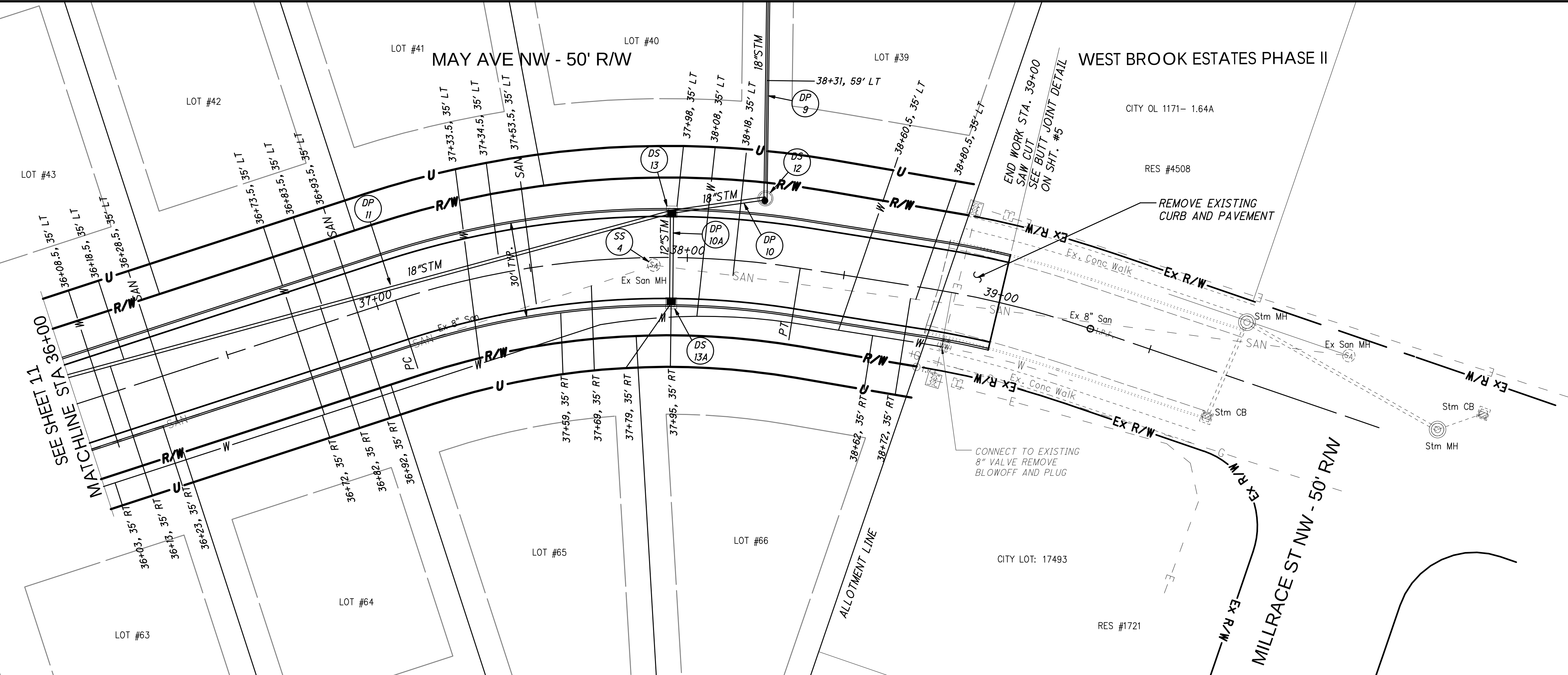
DRAWING NAME:

Leslie Dr. PP2

REF NUMBER:

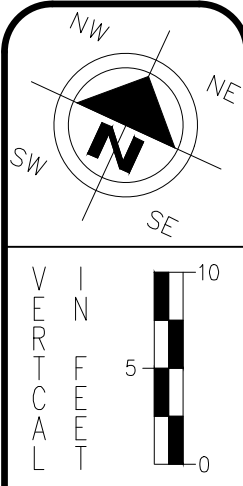
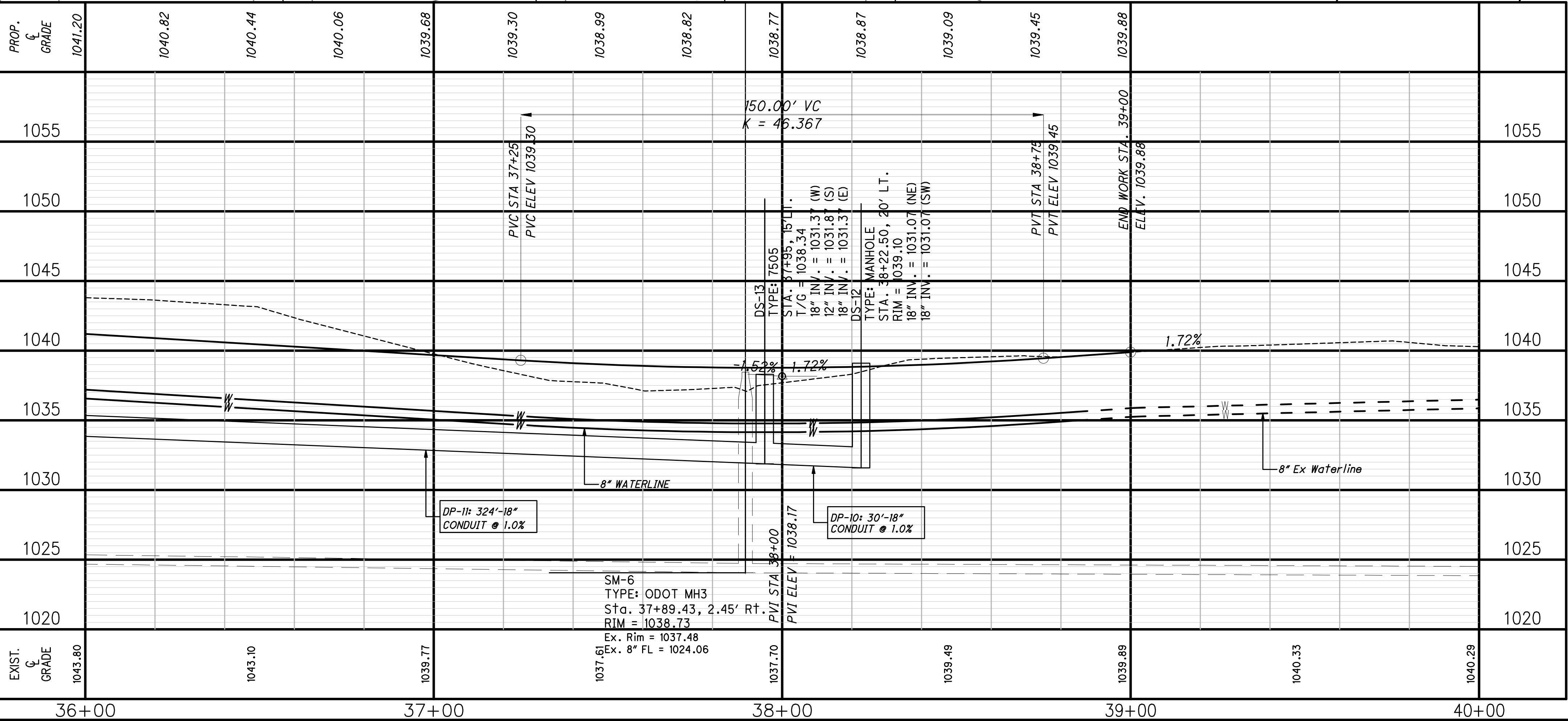
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39



A: SANITARY = DISTANCE FROM DOWNSTREAM MANHOLE
STORM = DISTANCE FROM DOWNSTREAM DRAINAGE STRUCTURE
WATER = STATION LOCATION
B: SANITARY = DISTANCE FROM MAIN
STORM = DISTANCE FROM MAIN
WATER = DISTANCE FROM MAIN

NOTES
1. WATER MAINS MUST BE INSTALLED A MINIMUM OF 4' UNDERGROUND AND IF NECESSARY, MUST BE DEFLECTED TO PROVIDE AN 18" MINIMUM CLEARANCE FROM ALL STORM AND SANITARY MAINS AT CROSSING POINTS.
2. WYES SHALL BE INSTALLED FOR ALL SANITARY LATERALS.

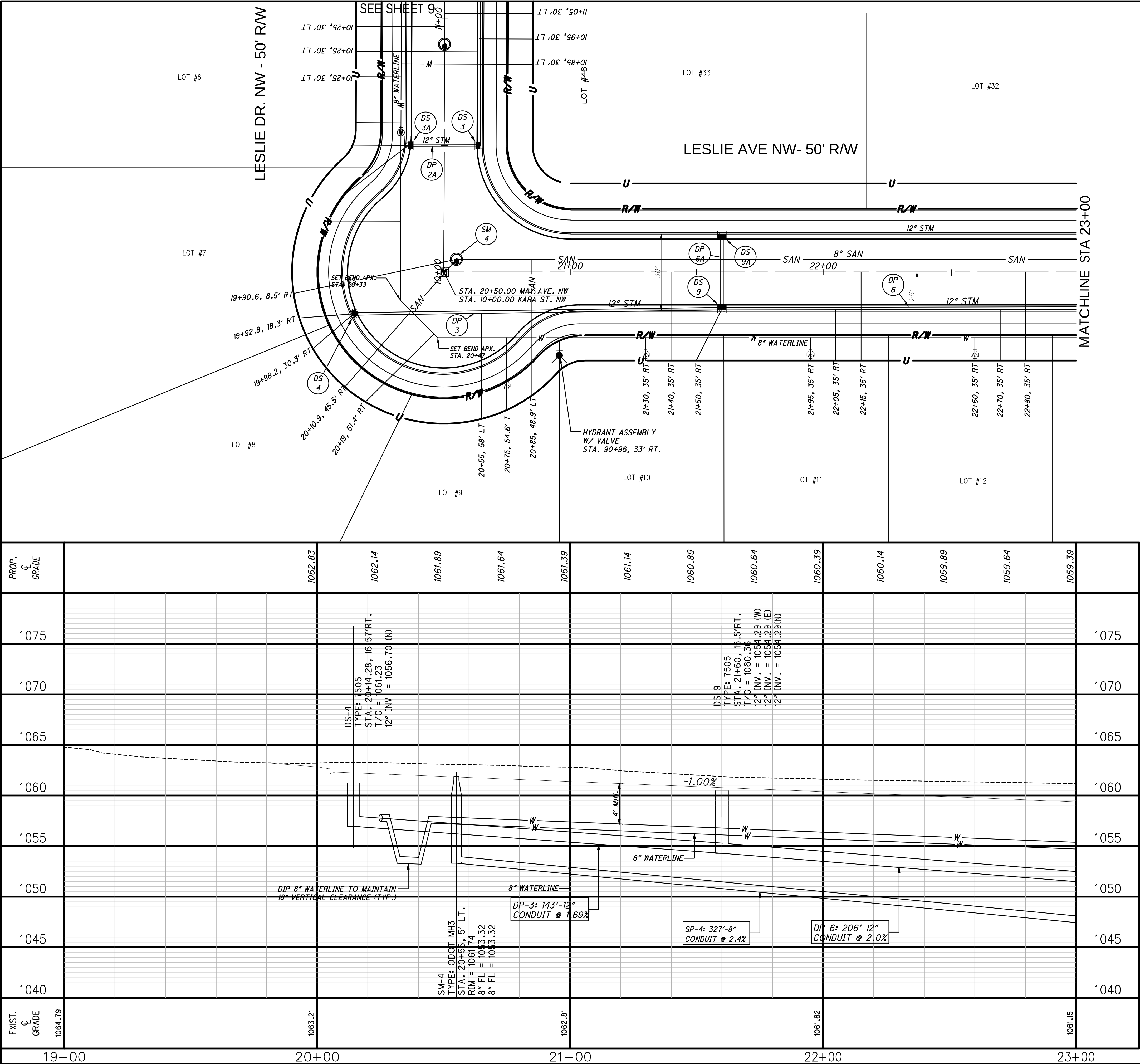


CHECKED BY:		KAD
DATE:		Mar, 2023
DRAWN BY:		JTD
DATE:		Mar, 2023
REVISIONS:	DESCRIPTION	COMMENTS
9/12/23		

Sippo Reserves Phase 3 & 4
May Ave NW 32+00 to Sta. 36+00 Plan and Profile
City of Massillon
Stark County, Ohio

CIVIPRO
ENGINEERING
ENGINEERS-SURVEYORS-CONSTRUCTION MANAGERS
4459 BELLEVILLE AVE., SUITE 200, MASSILLON, OH 44862
PHONE: (334) 740-3637 FAX: (334) 740-3638
WWW.CIVIPROENGINEERING.COM

DRAWING NAME:
May Ave. PP2
REF NUMBER:



A: SANITARY = DISTANCE FROM DOWNSTREAM MANHOLE
STORM = DISTANCE FROM DOWNSTREAM DRAINAGE STRUCTURE
WATER = STATION LOCATION
B: SANITARY = DISTANCE FROM MAIN
STORM = DISTANCE FROM MAIN
WATER = DISTANCE FROM MAIN

- NOTES
- 1. WATER MAINS MUST BE INSTALLED A MINIMUM OF 4' UNDERGROUND AND IF NECESSARY, MUST BE DEFLECTED TO PROVIDE AN 18" MINIMUM CLEARANCE FROM ALL STORM AND SANITARY MAINS AT CROSSING POINTS.
 - 2. WYES SHALL BE INSTALLED FOR ALL SANITARY LATERALS.

N

NW

NE

SW

SE

0

5

10

20

0

10

20

HORIZONTAL

SCALE IN FEET

CHECKED BY:

KAD

DATE:

Mar, 2023

DRAWN BY:

JTD

DATE:

Mar, 2023

REVISIONS:

DATE	DESCRIPTION

13

39

Sippo Reserves Phase 3 & 4

Leslie Ave NW 19+00 to Sta. 23+00 Plan and Profile

City of Massillon

Stark County, Ohio

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ENGINEERS-SURVEYORS-CONSTRUCTION MANAGERS

4450 BELDEN VILLAGE STREET NW, SUITE 800 CANTON, OH 44718

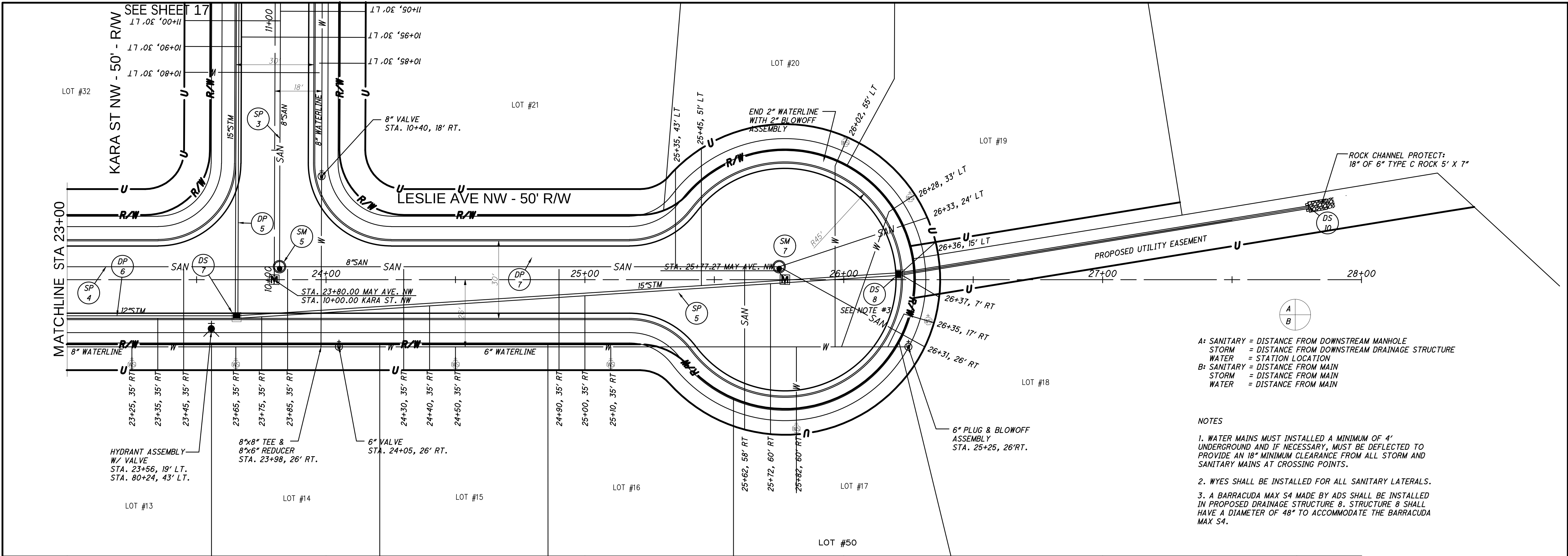
PHONE: (234) 410-3913 EMAIL: KAD@CIVIPROENGINEERING.COM

WWW.CIVIPROENGINEERING.COM

DRAWING NAME:

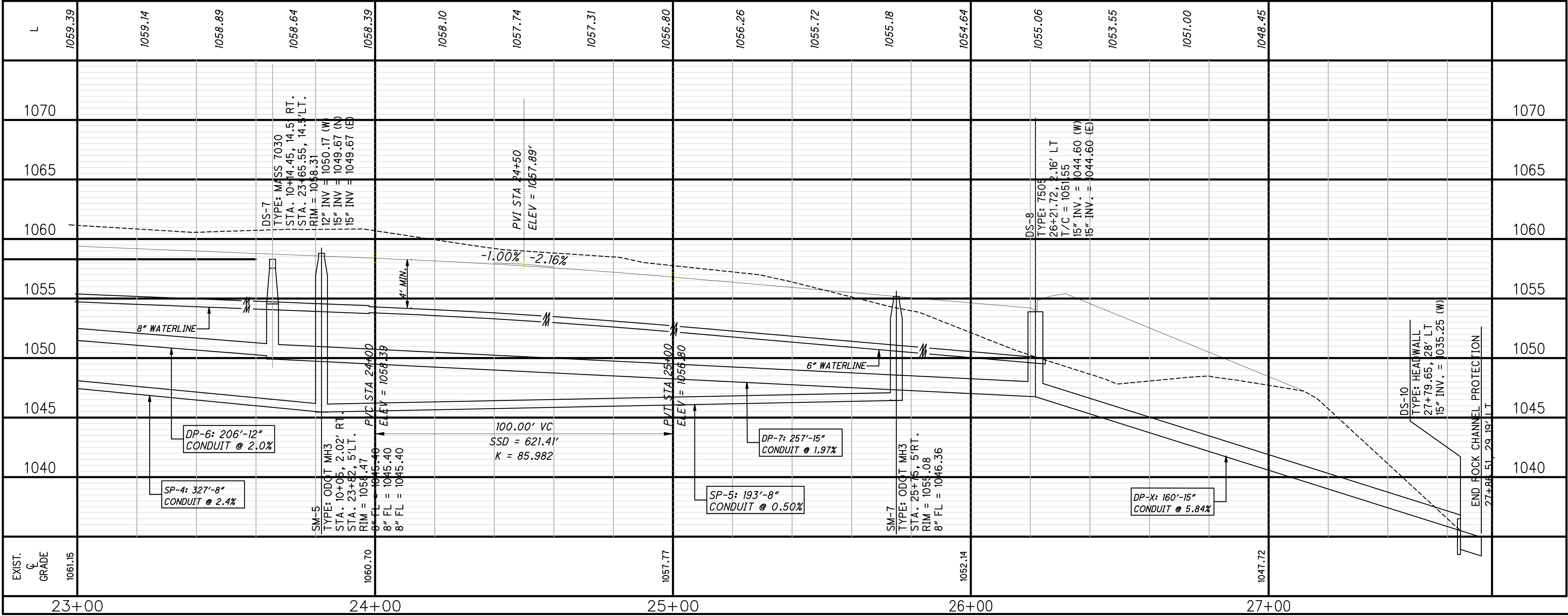
May Ave West PPI

REF NUMBER:



A: SANITARY = DISTANCE FROM DOWNSTREAM MANHOLE
 STORM = DISTANCE FROM DOWNSTREAM DRAINAGE STRUCTURE
 WATER = STATION LOCATION
 B: SANITARY = DISTANCE FROM MAIN
 STORM = DISTANCE FROM MAIN
 WATER = DISTANCE FROM MAIN

- NOTES
1. WATER MAINS MUST BE INSTALLED A MINIMUM OF 4' UNDERGROUND AND IF NECESSARY, MUST BE DEFLECTED TO PROVIDE AN 18" MINIMUM CLEARANCE FROM ALL STORM AND SANITARY MAINS AT CROSSING POINTS.
 2. WYES SHALL BE INSTALLED FOR ALL SANITARY LATERALS.
 3. A BARRACUDA MAX S4 MADE BY ADS SHALL BE INSTALLED IN PROPOSED DRAINAGE STRUCTURE 8. STRUCTURE 8 SHALL HAVE A DIAMETER OF 48" TO ACCOMMODATE THE BARRACUDA MAX S4.



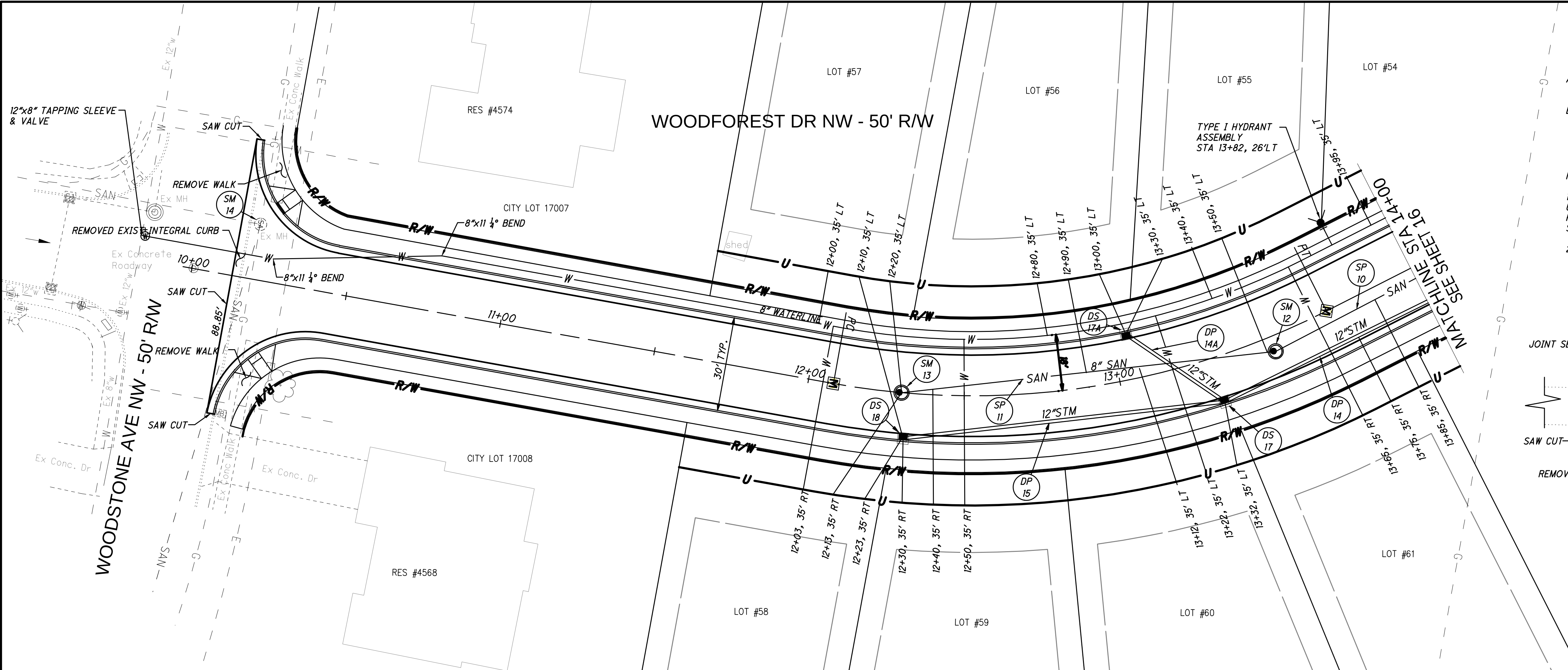
CHECKED BY: KAD
 DATE: Mar, 2023
 DRAWN BY: JTD
 DATE: Mar, 2023

REVISIONS:	DESCRIPTION
DATE	

Sippo Reserves Phase 3 & 4
 Leslie Ave NW 23+00 to Sta. 27+00 Plan and Profile
 City of Massillon
 Stark County, Ohio

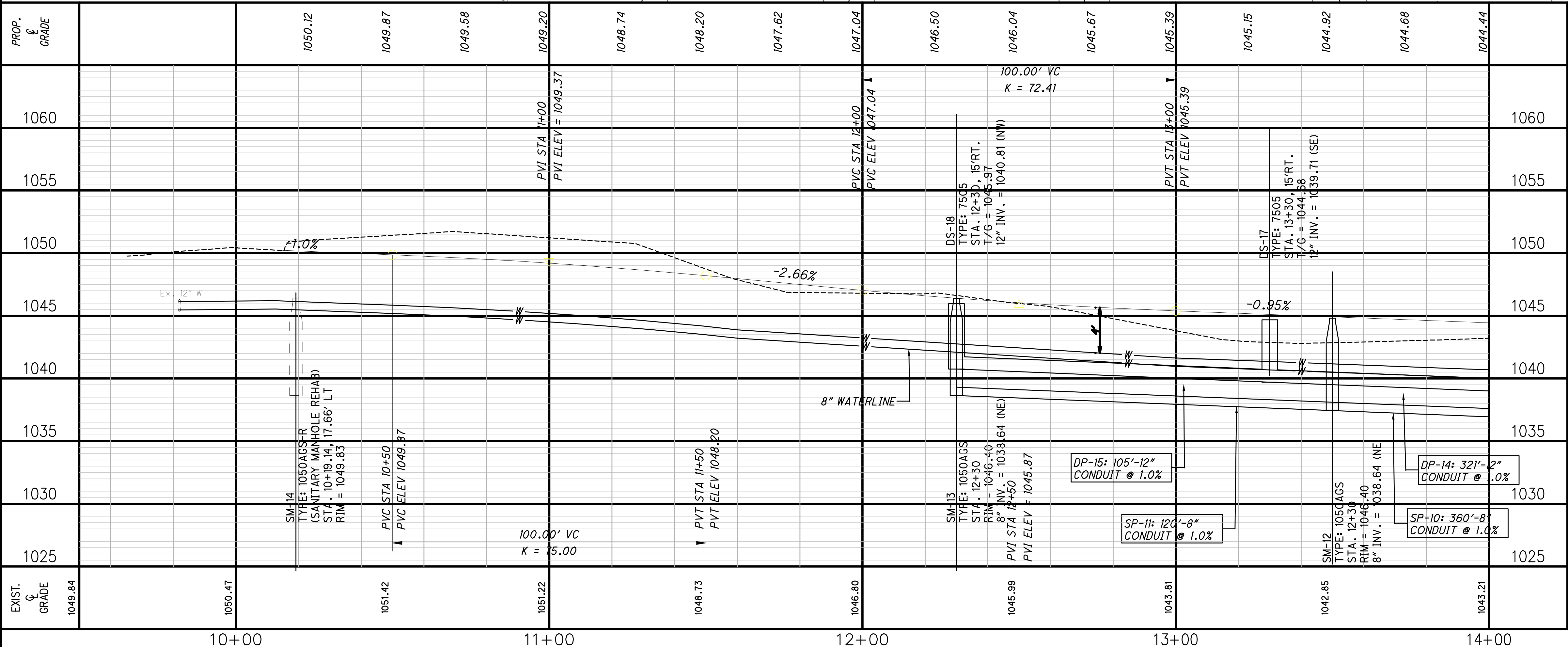
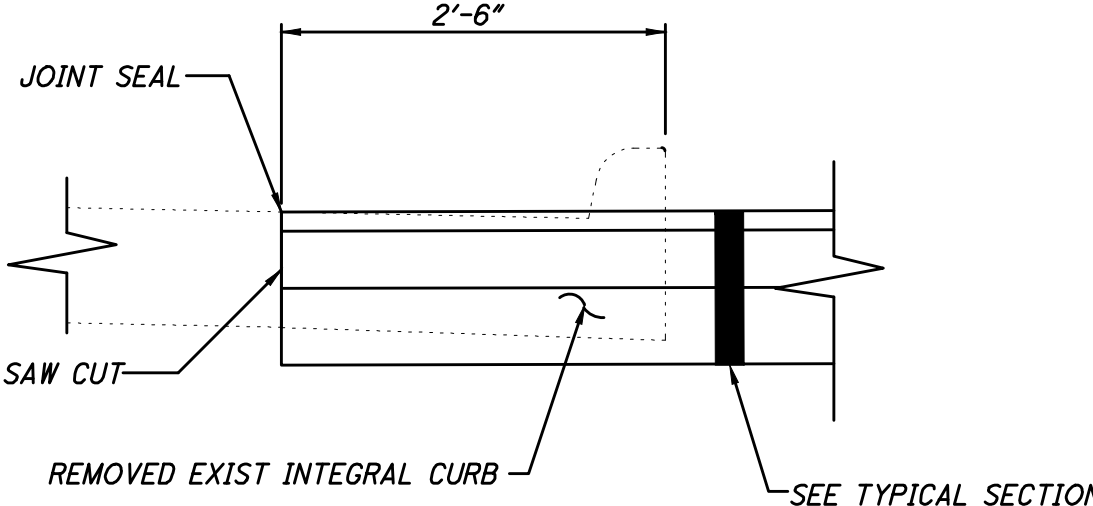
ENGINEERS-SURVEYORS-CONSTRUCTION MANAGERS
 4450 BLOOM VILLAGE STREET NW, SUITE 800 CANTON, OH 44708
 PHONE: (234) 410-3913 EMAIL: KAD@CIVIPROENGINEERING.COM
 WWW.CIVIPROENGINEERING.COM

DRAWING NAME:
 May Ave West PP2
 REF NUMBER:



A: SANITARY = DISTANCE FROM DOWNSTREAM MANHOLE
STORM = DISTANCE FROM DOWNSTREAM DRAINAGE STRUCTURE
WATER = STATION LOCATION
B: SANITARY = DISTANCE FROM MAIN
STORM = DISTANCE FROM MAIN
WATER = DISTANCE FROM MAIN

- NOTES
1. WATER MAINS MUST BE INSTALLED A MINIMUM OF 4' UNDERGROUND AND IF NECESSARY, MUST BE DEFLECTED TO PROVIDE AN 18" MINIMUM CLEARANCE FROM ALL STORM AND SANITARY MAINS AT CROSSING POINTS.
 2. WYES SHALL BE INSTALLED FOR ALL SANITARY LATERALS.



MS

North Arrow

0 10 20

Horizontal Scale in Feet

0 10 20

Vertical Scale in Feet

REVISIONS:

DATE	DESCRIPTION

CHECKED BY:

KAD

DATE:

Mar, 2023

DRAWN BY:

JTD

DATE:

Mar, 2023

15

39

Sippo Reserves Phase 3 & 4

Woodforest Dr NW 10+00 to Sta. 14+00 Plan and Profile

City of Massillon

Stark County, Ohio

CIVIPRO

ENGINEERING

ENGINEERS-SURVEYORS-CONSTRUCTION MANAGERS

4459 BELDEN VILLAGE STREET NW, SUITE 800 CANTON, OH 44708

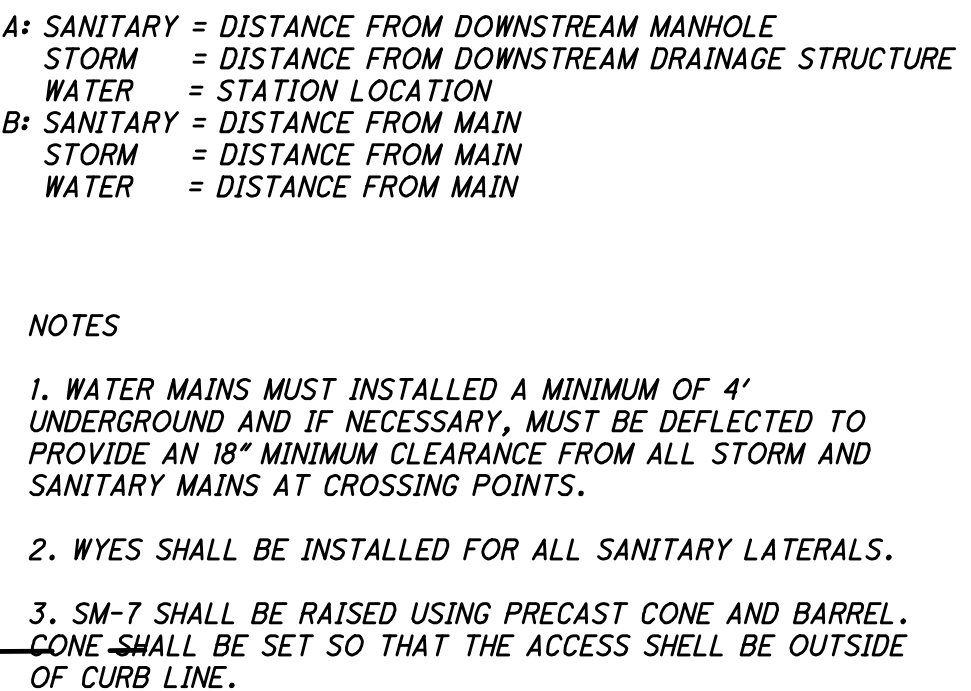
PHONE: (234) 410-3913 EMAIL: KAD@CIVIPROENGINEERING.COM

WWW.CIVIPROENGINEERING.COM

DRAWING NAME:

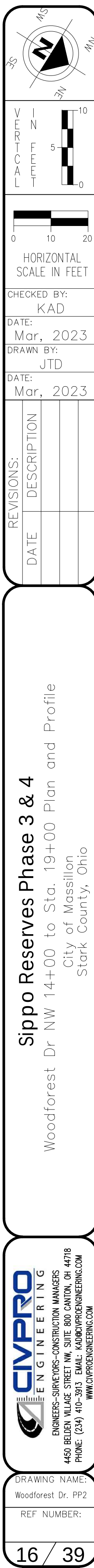
Woodforest Dr. PPI

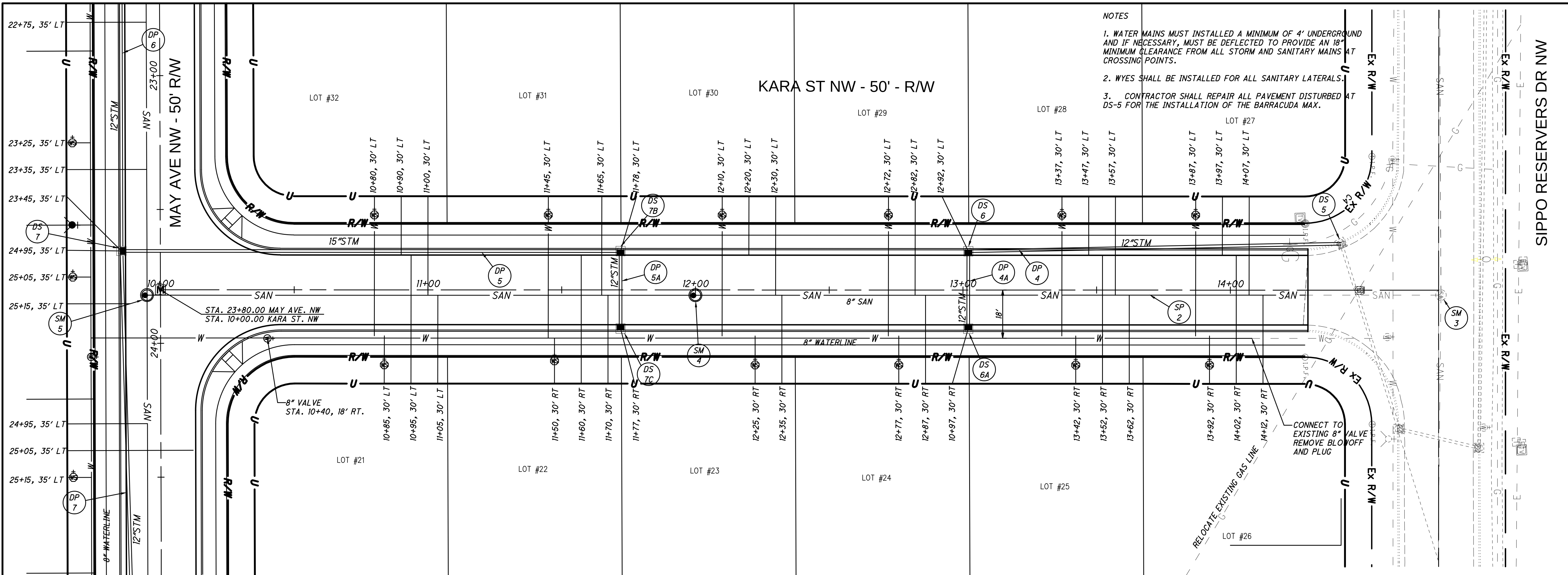
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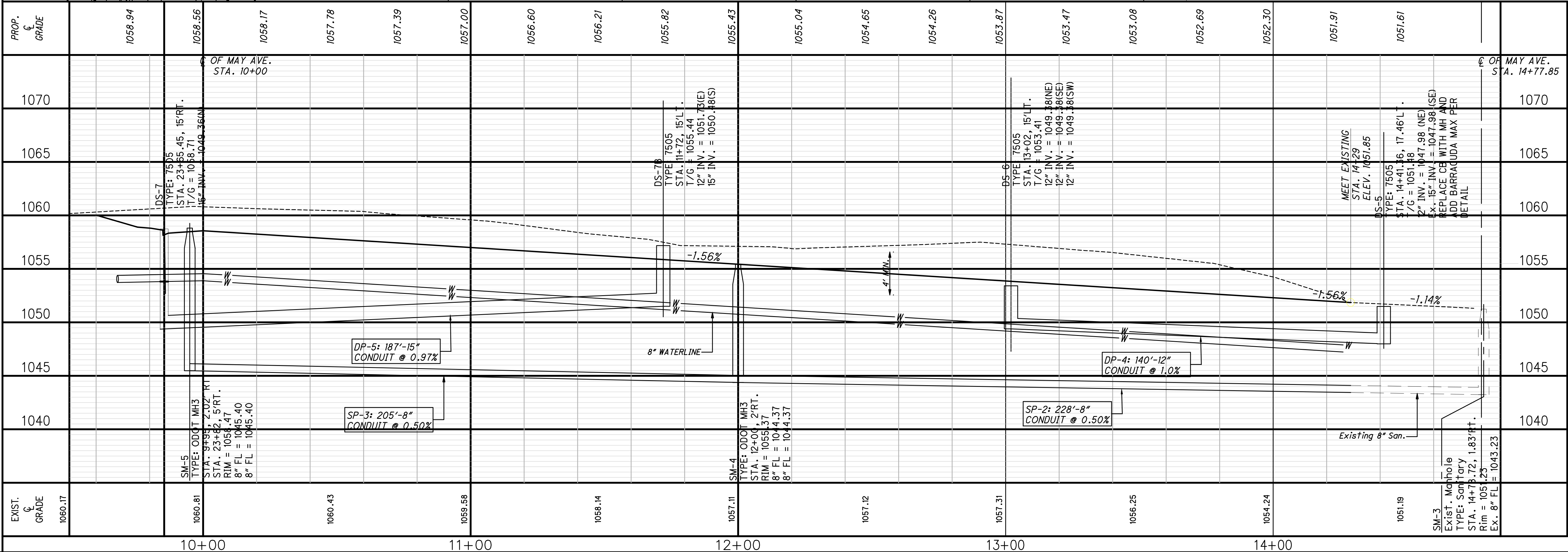
NOTES

1. WATER MAINS MUST INSTALLED A MINIMUM OF 4" UNDERGROUND AND IF NECESSARY, MUST BE DEFLECTED TO SLOPE TO AN 18" MINIMUM CLEARANCE FROM ALL STORM AND SANITARY MAINS AT CROSSING POINTS.
2. YES SHALL BE INSTALLED FOR ALL SANITARY LATERALS.
3. SM-7 SHALL BE RAISED USING PRECAST CONE AND BARREL. CONE SHALL BE SET SO THAT THE ACCESS SHELL BE OUTSIDE OF CURB LINE.





- NOTES
1. WATER MAINS MUST BE INSTALLED A MINIMUM OF 4' UNDERGROUND AND IF NECESSARY, MUST BE DEFLECTED TO PROVIDE AN 18" MINIMUM CLEARANCE FROM ALL STORM AND SANITARY MAINS AT CROSSING POINTS.
 2. WYES SHALL BE INSTALLED FOR ALL SANITARY LATERALS.
 3. CONTRACTOR SHALL REPAIR ALL PAVEMENT DISTURBED AT DS-5 FOR THE INSTALLATION OF THE BARRACUDA MAX.



17

39

REF NUMBER:

Kara St PPI

DRAWING NAME:

Kara St NW 9+50 to Sta. 15+00 Plan and Profile

ENGINEERING

CIVIPRO

4450 BELDEN VILLAGE STREET NW, SUITE 800 CANTON, OH 44708

PHONE (234) 410-3974 EMAIL: KAD@CIVIPROENGINEERING.COM

City of Massillon

Stark County, Ohio

9/12/23

DATE

BMH

DRAWN BY

Mar, 2023

DATE

9/12/23

DATE

BMH

DRAWN BY

Mar, 2023

DATE

KAD

CHECKED BY

0 10 20

HORIZONTAL SCALE IN FEET

0 5 10

VERTICAL SCALE IN FEET

0 10 20

VERTICAL SCALE IN FEET

SE

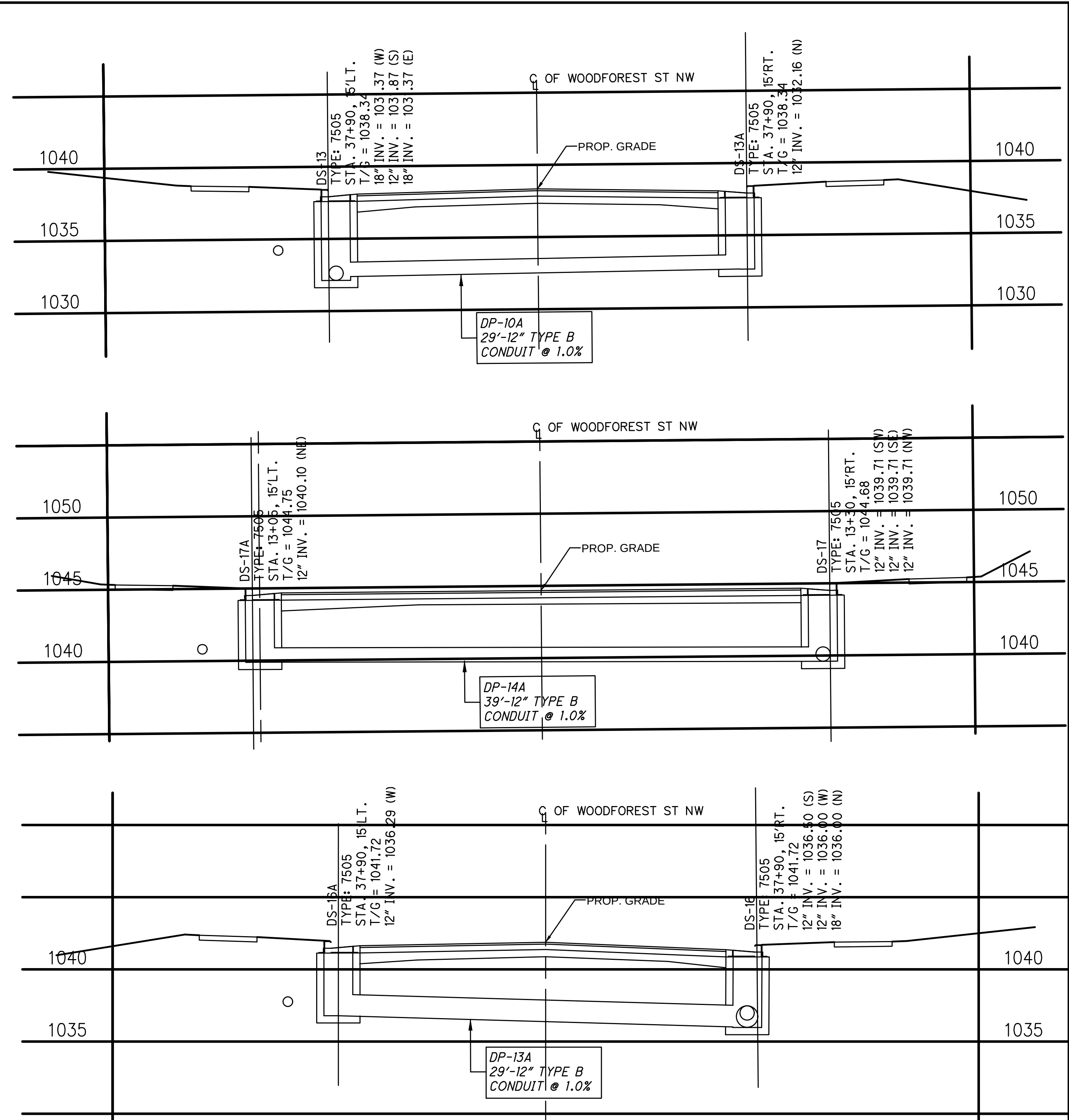
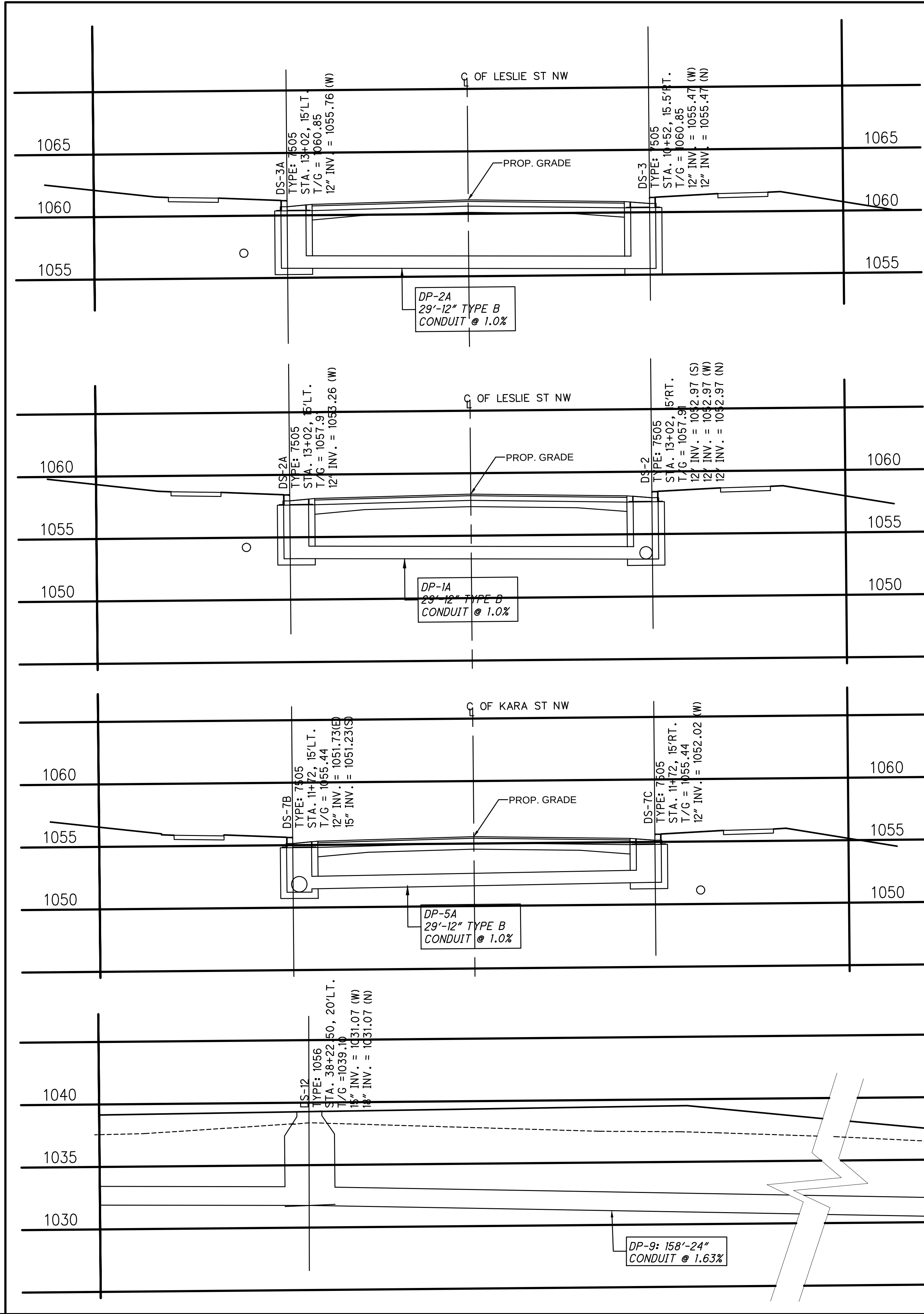
NE

SW

NW

0 10 20

VERTICAL SCALE IN FEET



NW

NE

SW

SE

N

1" = 20'

1" = 10'

1" = 5'

0

2.5

5

HORIZONTAL
SCALE IN FEET

CHECKED BY:
KAD

DATE:
Mar, 2023

DRAWN BY:
JTD

DATE:
Mar, 2023

REVISIONS:	DATE	DESCRIPTION	COMMENTS
	9/12/23		

Sippo Reserves Allotment Phase 3 & 4

Drainage Profiles

City of Massillon

Stark County, Ohio

CIVIPRO

ENGINEERING

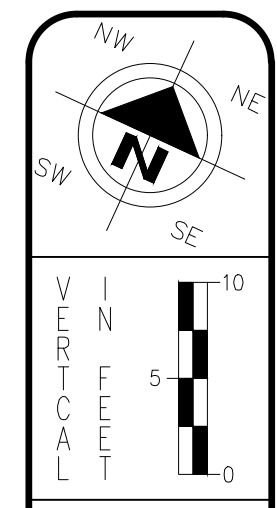
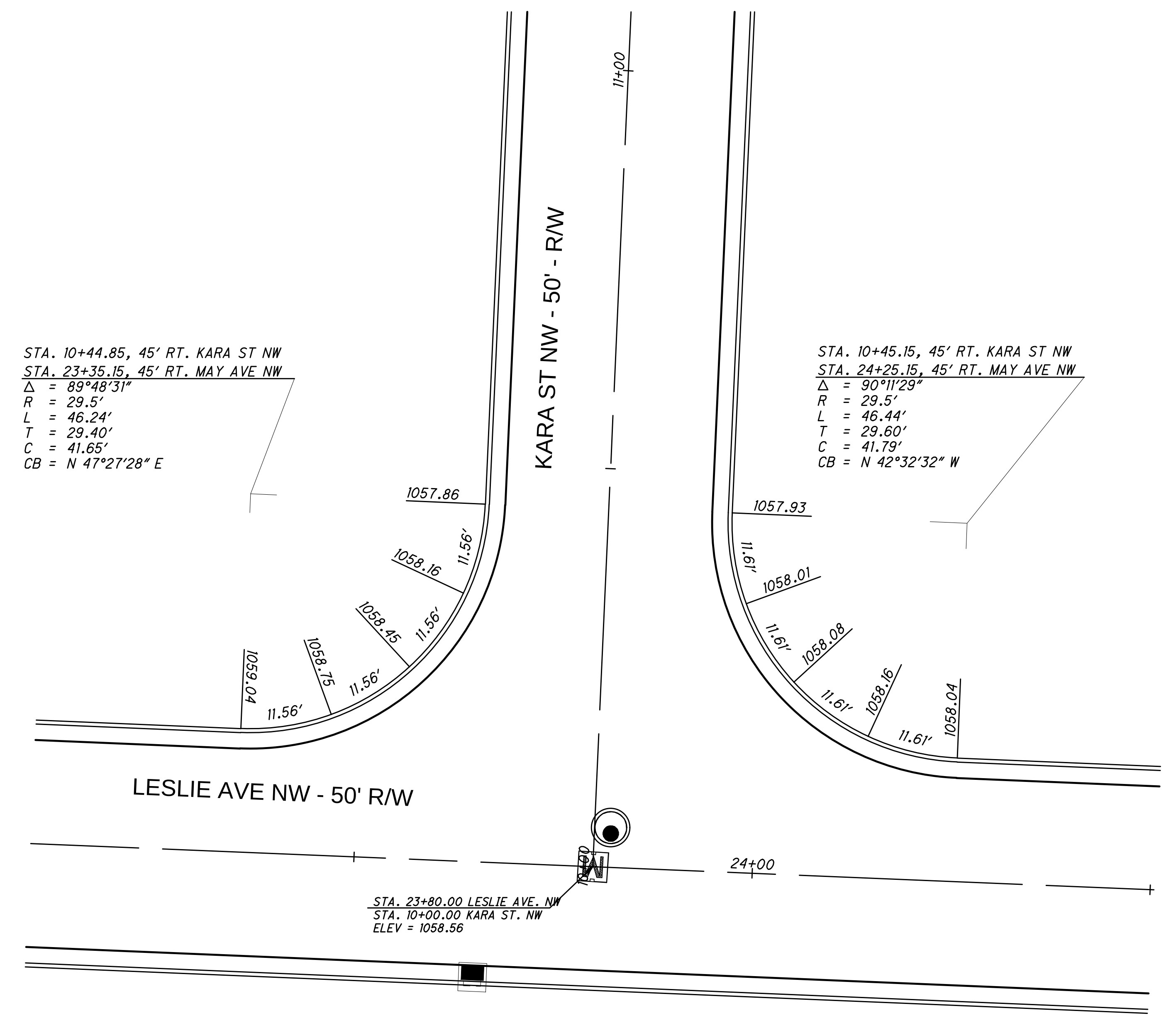
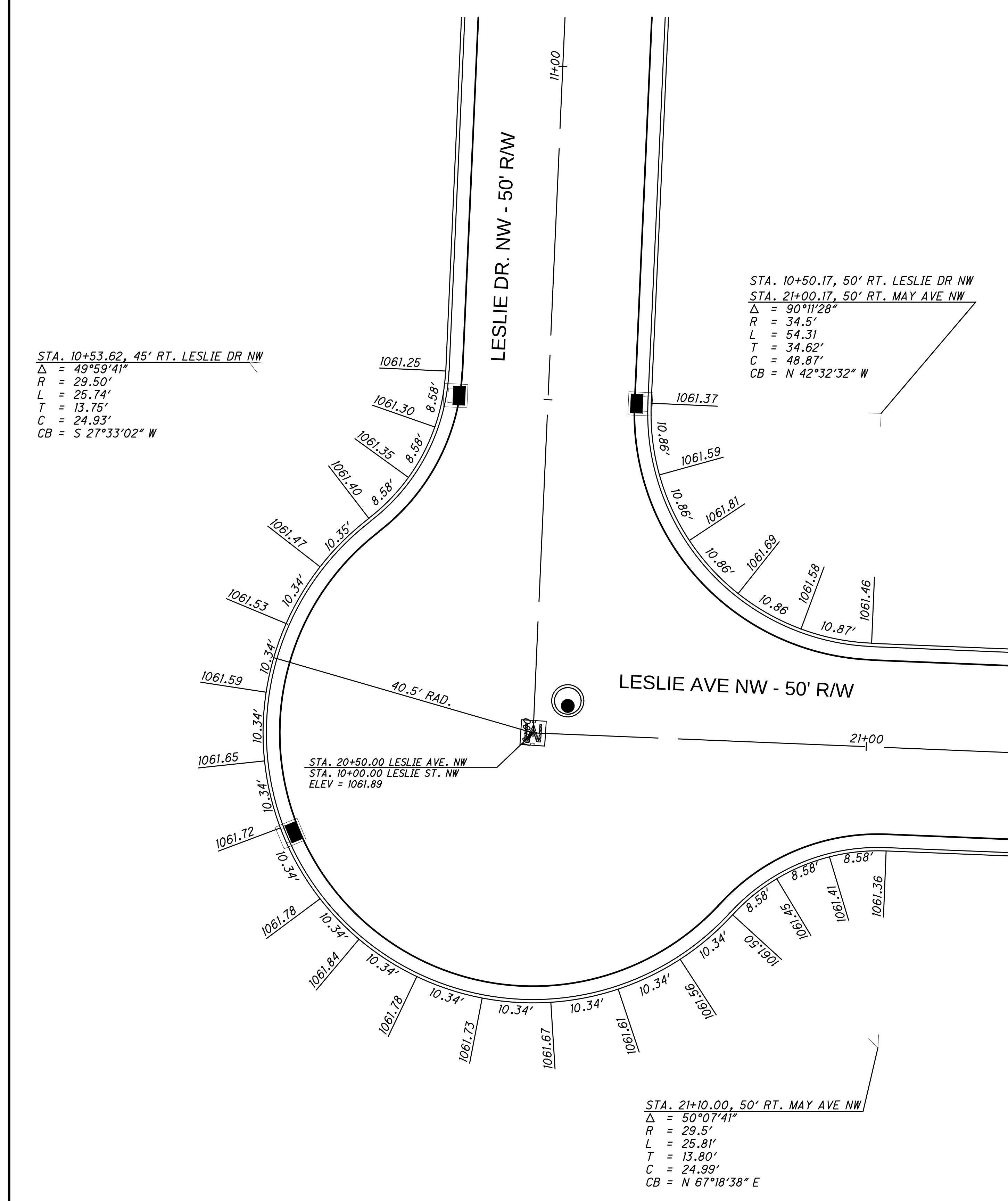
ENGINEERS-SURVEYORS-CONSTRUCTION MANAGERS
4450 BULLEN VILLAGE STREET NW, SUITE 800 CANTON, OH 44705
PHONE: (234) 410-3913 EMAIL: KAD@CIVIPROENGINEERING.COM
WWW.CIVIPROENGINEERING.COM

DRAWING NAME:
Sippo Drainage Profiles

REF NUMBER:

18

39



HORIZONTAL
SCALE IN FEET

CHECKED BY:
KAD
DATE:
Mar, 2023
DRAWN BY:
JTD
DATE:
Mar, 2023

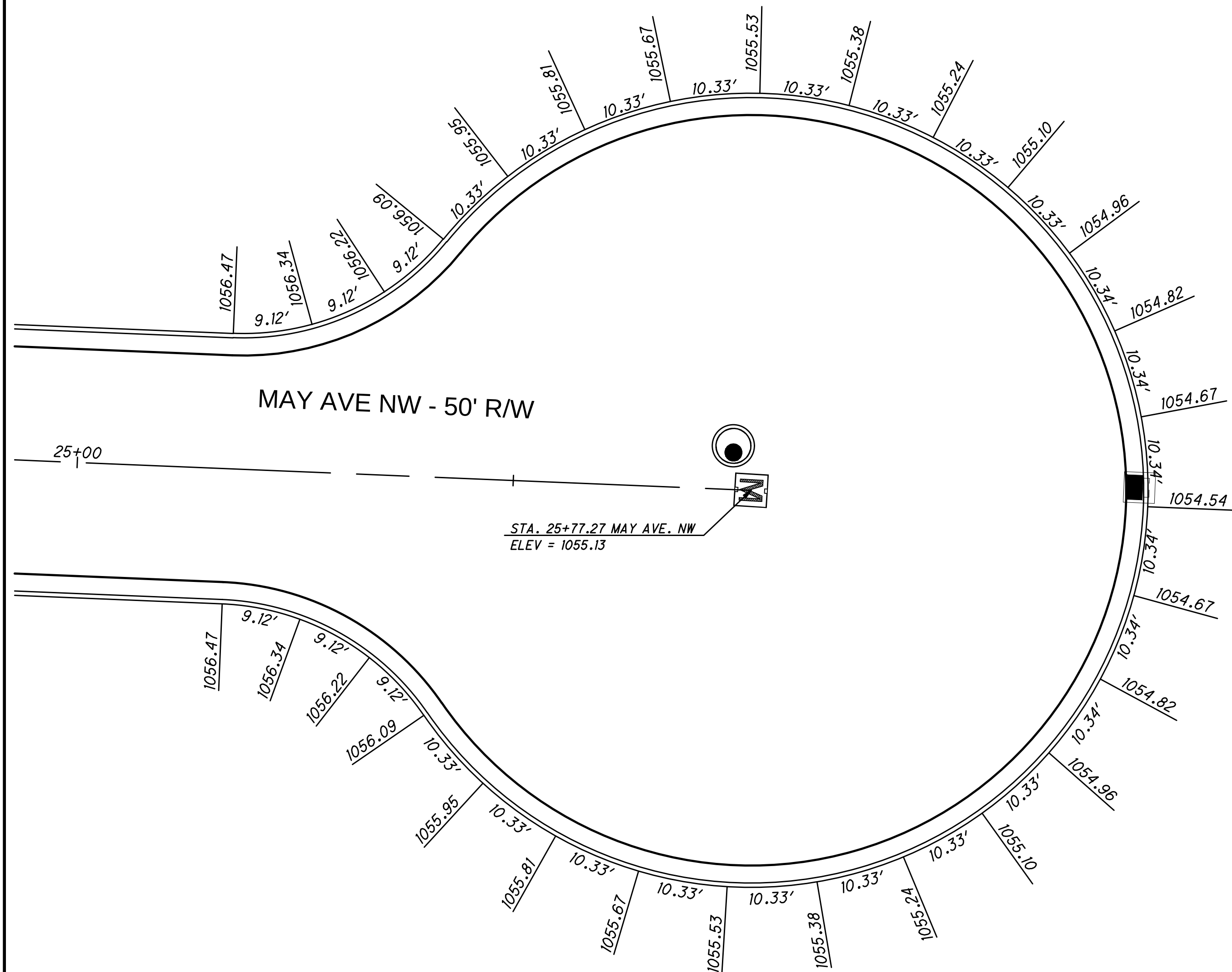
REVISIONS:	DATE	DESCRIPTION

Sippo Reserves Allotment Phase 3 & 4
Intersection Details
City of Massillon
Stark County, Ohio

CIVIPRO
ENGINEERING
ENGINEERS-SURVEYORS-CONSTRUCTION MANAGERS
4450 BELDEN VILLAGE STREET NW, SUITE 800 CANTON, OH 44705
PHONE: (224) 410-5555 FAX: (224) 410-5556
WWW.CIVIPROENGINEERING.COM

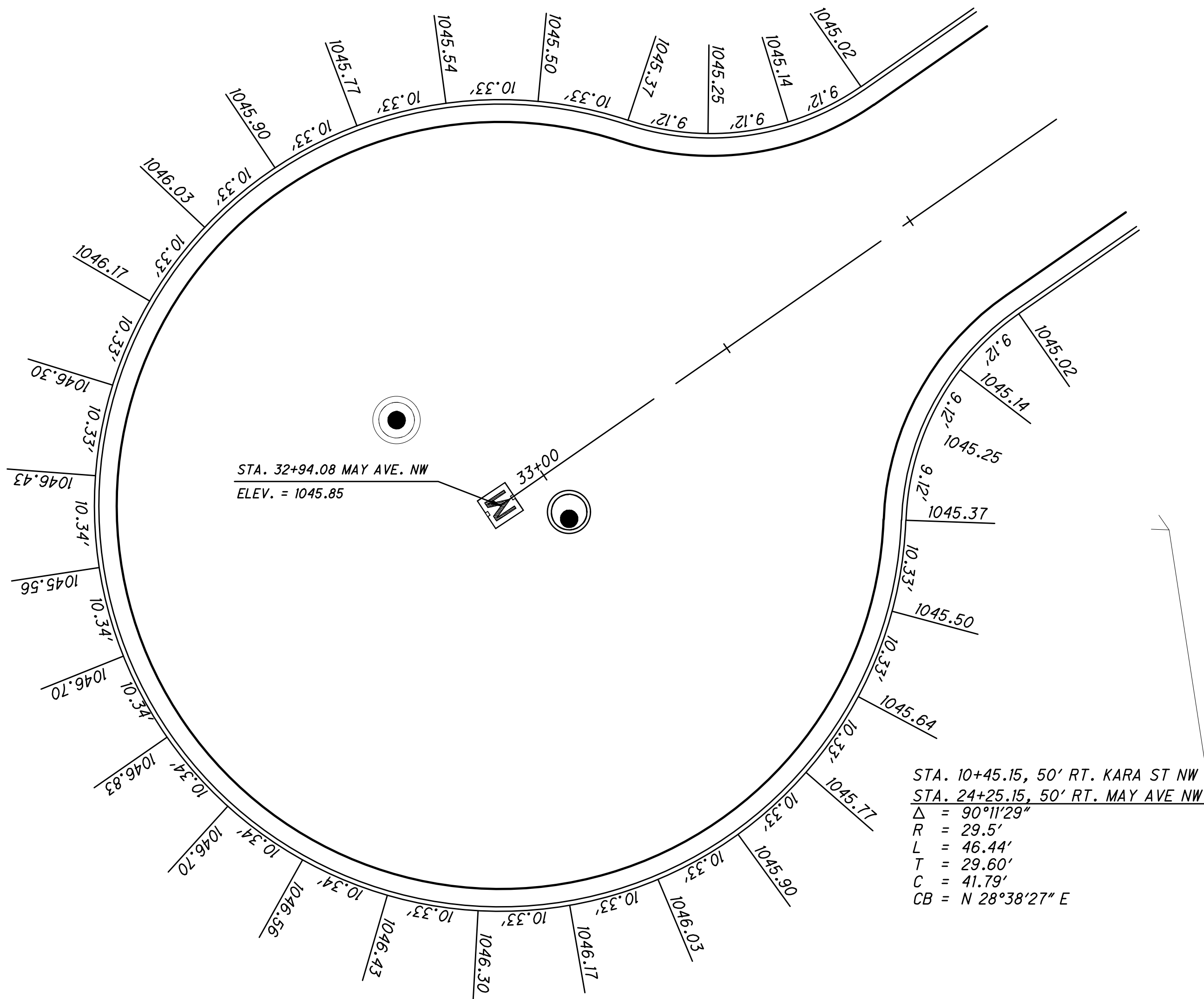
DRAWING NAME:
Int. Detail 1
REF. NUMBER:

STA. 25+17.27, 45' LT. MAY AVE NW
 $\Delta = 90^{\circ}11'29''$
R = 29.5'
L = 46.44'
T = 29.60'
C = 41.79'
CB = N 65°47'50" E

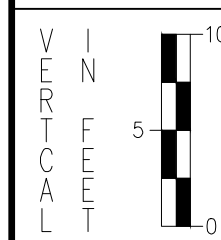
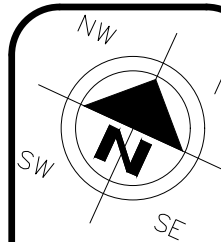


STA. 25+17.27, 45' RT. MAY AVE NW
 $\Delta = 90^{\circ}11'29''$
R = 29.5'
L = 46.44'
T = 29.60'
C = 41.79'
CB = S 61°4'22" E

STA. 10+45.15, 50' RT. KARA ST NW
STA. 24+25.15, 50' RT. MAY AVE NW
 $\Delta = 90^{\circ}11'29''$
R = 29.5'
L = 46.44'
T = 29.60'
C = 41.79'
CB = N 81°46'15" E



STA. 10+45.15, 50' RT. KARA ST NW
STA. 24+25.15, 50' RT. MAY AVE NW
 $\Delta = 90^{\circ}11'29''$
R = 29.5'
L = 46.44'
T = 29.60'
C = 41.79'
CB = N 28°38'27" E



HORIZONTAL
SCALE IN FEET

CHECKED BY:
KAD

DATE:
Mar, 2023

DRAWN BY:
JTD

DATE:
Mar, 2023

REVISIONS:	DATE	DESCRIPTION

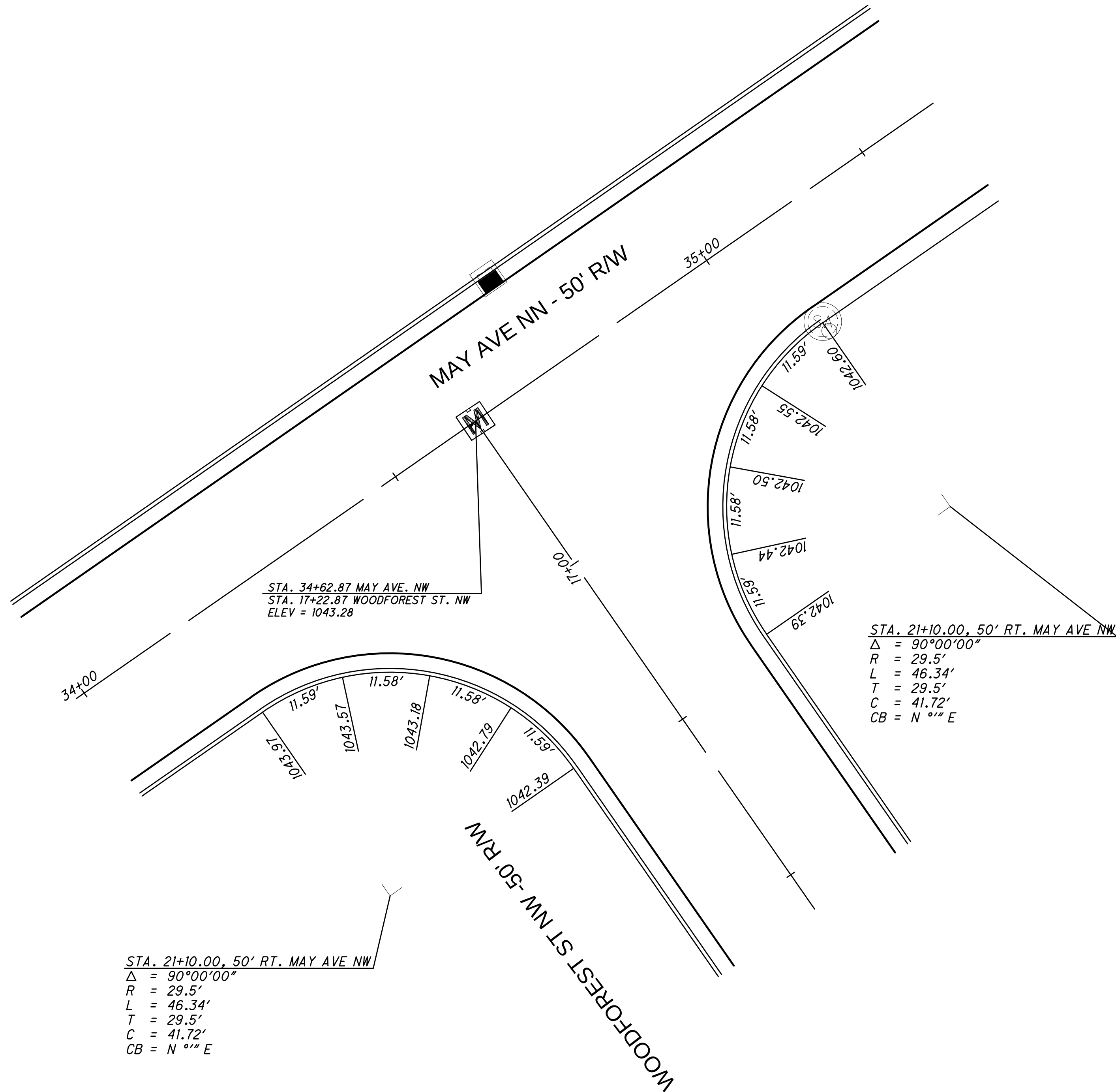
Sippo Reserves Allotment Phase 3 & 4

Intersection Details
City of Massillon
Stark County, Ohio



DRAWING NAME:
Int. Detail 2

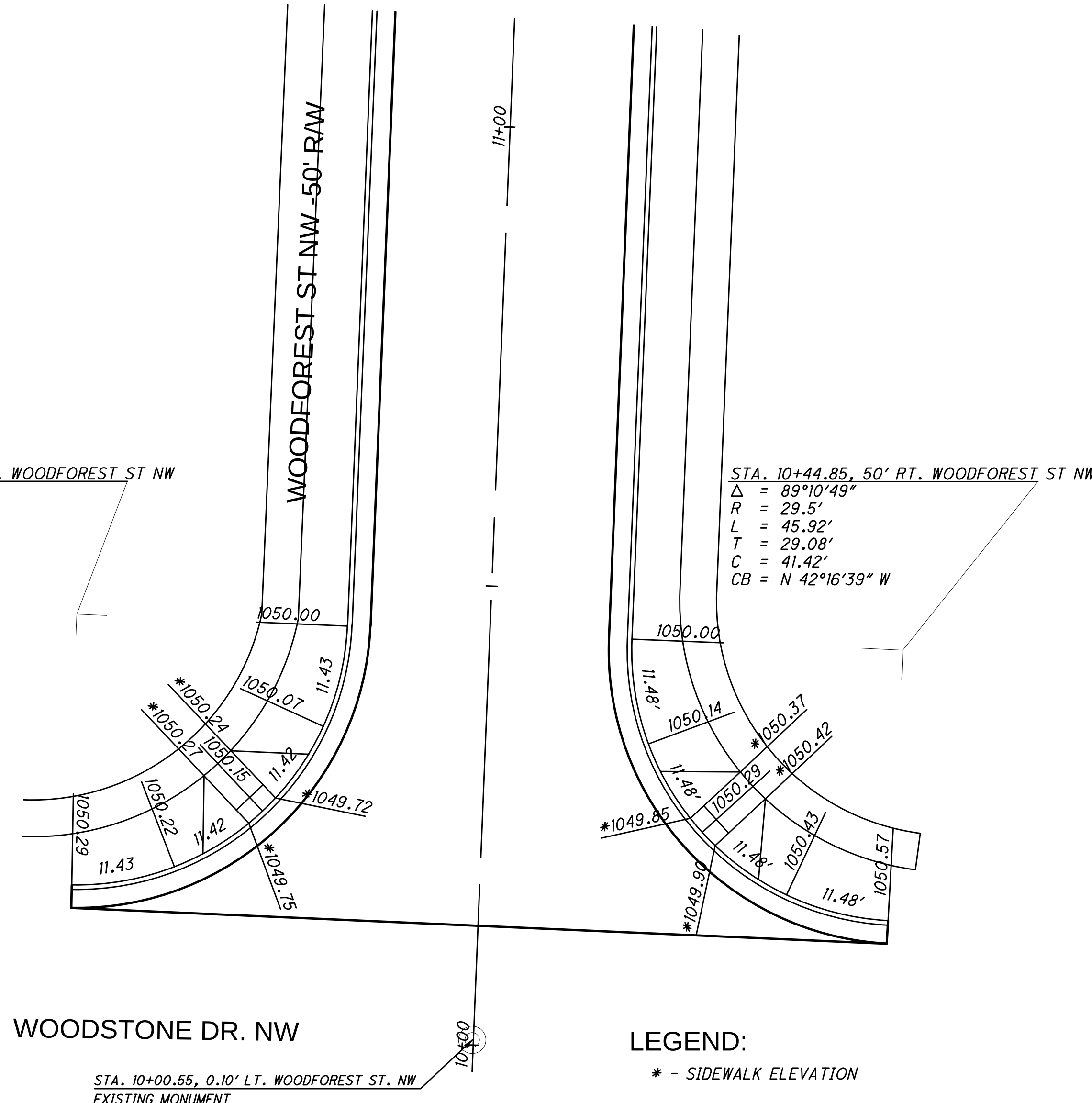
REF NUMBER:



STA. 10+45.14, 50' LT. WOODFOREST ST NW
 $\Delta = 88^{\circ}45'06''$
 $R = 29.5'$
 $L = 45.70'$
 $T = 28.86'$
 $C = 41.26'$
 $CB = S 46^{\circ}41'19'' W$

STA. 21+10.00, 50' RT. MAY AVE NW
 $\Delta = 90^{\circ}00'00''$
 $R = 29.5'$
 $L = 46.34'$
 $T = 29.5'$
 $C = 41.72'$
 $CB = N 0^{\circ}00'00'' E$

STA. 21+10.00, 50' RT. MAY AVE NW
 $\Delta = 90^{\circ}00'00''$
 $R = 29.5'$
 $L = 46.34'$
 $T = 29.5'$
 $C = 41.72'$
 $CB = N 0^{\circ}00'00'' E$



WOODSTONE DR. NW

STA. 10+00.55, 0.10' LT. WOODFOREST ST, NW
EXISTING MONUMENT

LEGEND:
* - SIDEWALK ELEVATION

NOTE:
ALL ELEVATION ARE TOP OF CURB UNLESS OTHERWISE NOTED

0 5 10 20

0 10 20

HORIZONTAL
SCALE IN FEET

CHECKED BY:
KAD

DATE:
Mar, 2023

DRAWN BY:
JTD

DATE:
Mar, 2023

REVISIONS:	DATE	DESCRIPTION	COMMENTS
	9/12/23		

Sippo Reserves Allotment Phase 3 & 4

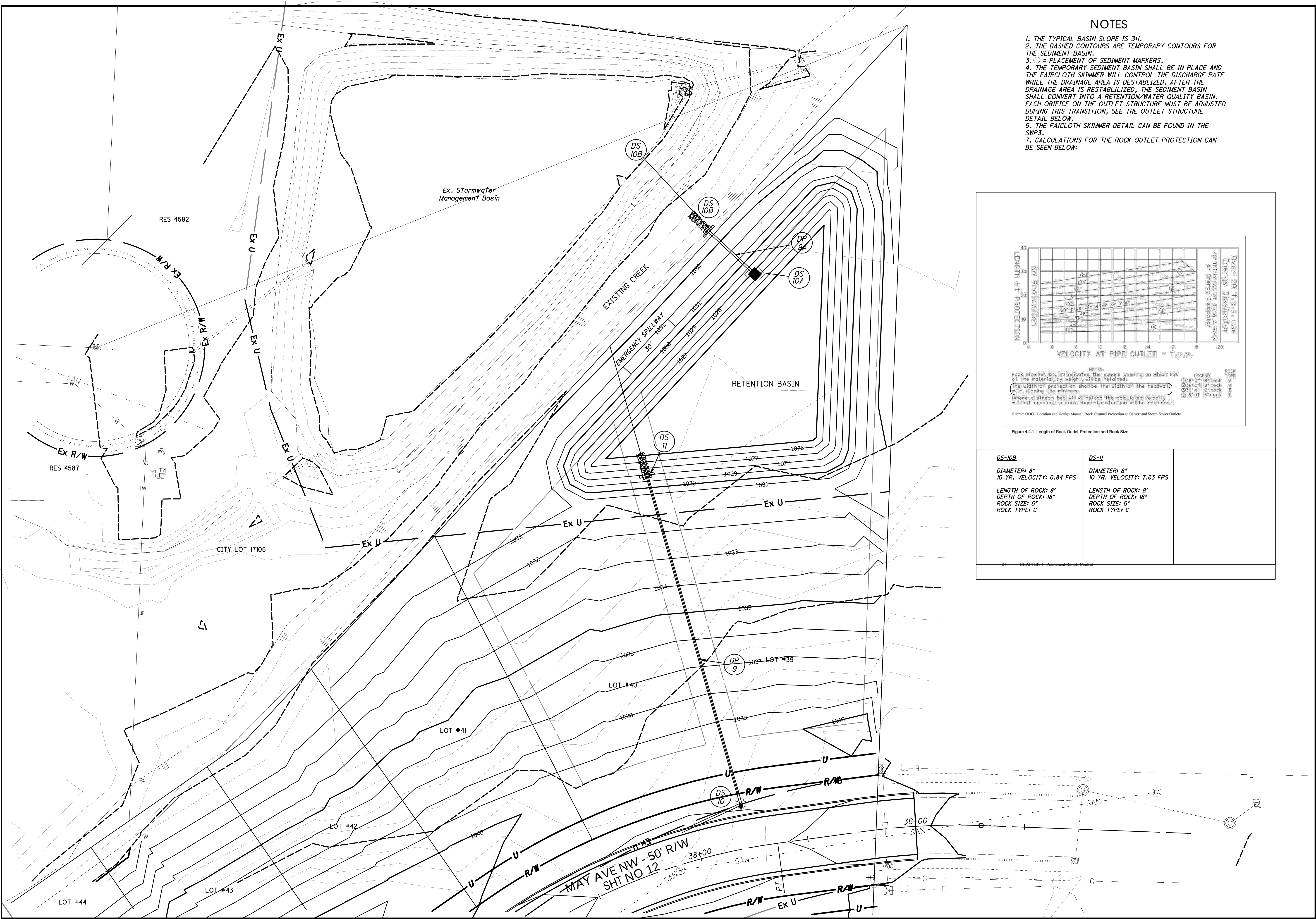
Intersection Details
City of Massillon
Stark County, Ohio

ENGINEERS-SURVEYORS-CONSTRUCTION MANAGERS
4450 BELDON VILLAGE STREET NW, SUITE 800 CANTON, OH 44718
PHONE: (224) 410-5893 EMAIL: KAD@CIVIPROENGINEERING.COM
WWW.CIVIPROENGINEERING.COM

DRAWING NAME:
Int. Detail 3

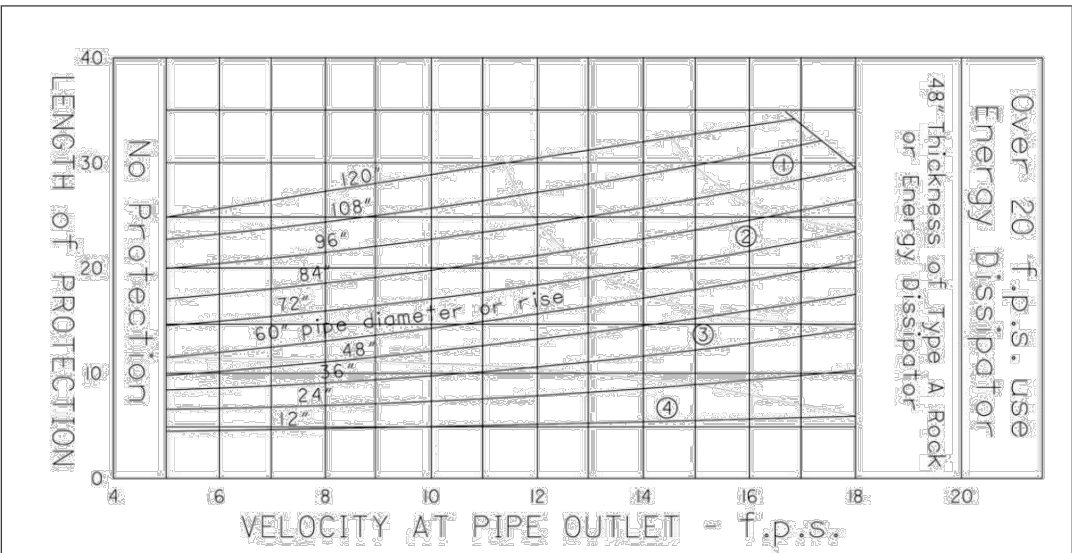
REF NUMBER:

21 / 39



NOTES

1. THE TYPICAL BASIN SLOPE IS 3:1.
2. THE DASHED CONTOURS ARE TEMPORARY CONTOURS FOR THE SEDIMENT BASIN.
3. ⊕ = PLACEMENT OF SEDIMENT MARKERS.
4. THE TEMPORARY SEDIMENT BASIN SHALL BE IN PLACE AND THE FAIRCLOTH SKIMMER WILL CONTROL THE DISCHARGE RATE WHILE THE DRAINAGE AREA IS DESTABILIZED. AFTER THE DRAINAGE AREA IS RESTABILIZED, THE SEDIMENT BASIN SHALL CONVERT INTO A RETENTION/WATER QUALITY BASIN. EACH ORIFICE ON THE OUTLET STRUCTURE MUST BE ADJUSTED DURING THIS TRANSITION, SEE THE OUTLET STRUCTURE DETAIL BELOW.
5. THE FAIRCLOTH SKIMMER DETAIL CAN BE FOUND IN THE SWP3.
7. CALCULATIONS FOR THE ROCK OUTLET PROTECTION CAN BE SEEN BELOW:



NOTES:
Rock size (6", 12", 18") indicates the square opening on which 85% of the material, by weight, will be retained.
The width of protection shall be the width of the headwall with 6" being the minimum.
Where a stream bed will withstand the calculated velocity without erosion, no rock channel protection will be required.

Source: ODOT Location and Design Manual, Rock Channel Protection at Culvert and Storm Sewer Outlets

Figure 4.4.1 Length of Rock Outlet Protection and Rock Size

DS-10B

DIAMETER: 8"
10 YR. VELOCITY: 6.84 FPS
LENGTH OF ROCK: 8'
DEPTH OF ROCK: 18"
ROCK SIZE: 6"
ROCK TYPE: C

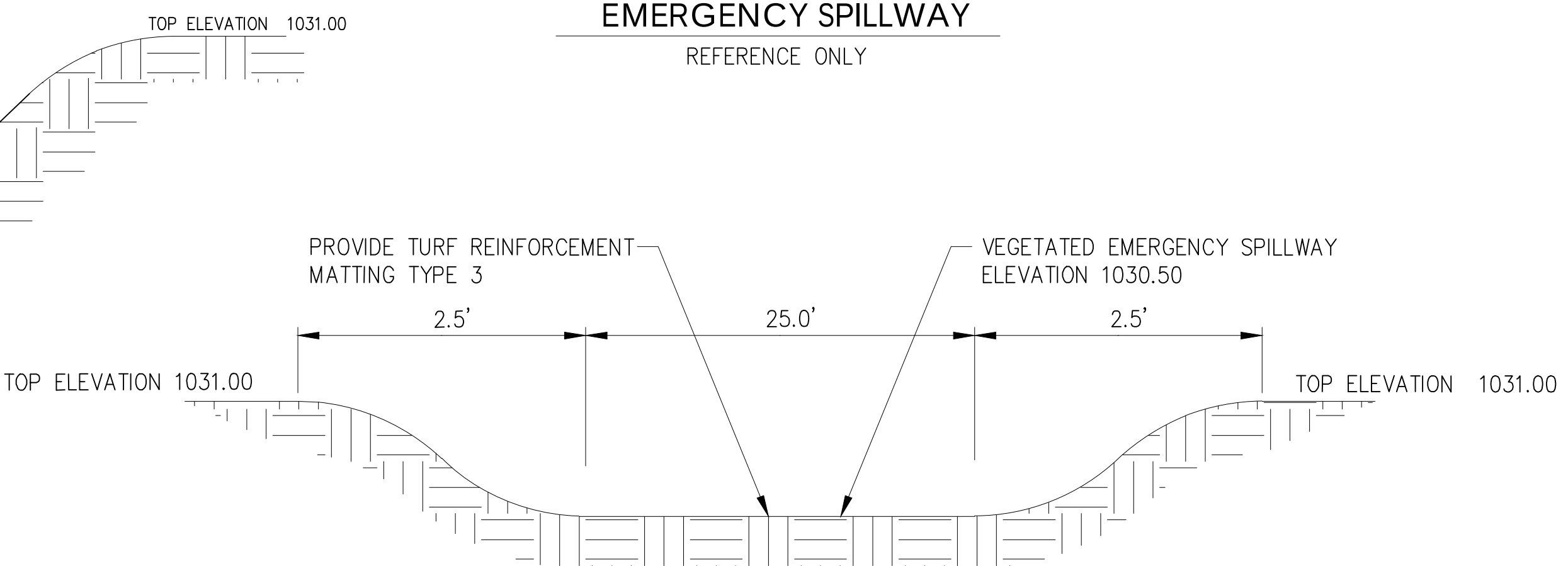
DS-11

DIAMETER: 8"
10 YR. VELOCITY: 7.63 FPS
LENGTH OF ROCK: 8'
DEPTH OF ROCK: 18"
ROCK SIZE: 6"
ROCK TYPE: C

ORIFICES TO BE PLUGGED WHILE THE DRAINAGE AREA IS DESTABILIZED.
AFTER THE DRAINAGE AREA IS RESTABILIZED, PROVIDE THREE 10.8"Hx36"W INV. = 1029.00
ON THE SOUTH, EAST, AND NORTH FACES OF OUTLET THE STRUCTURE.

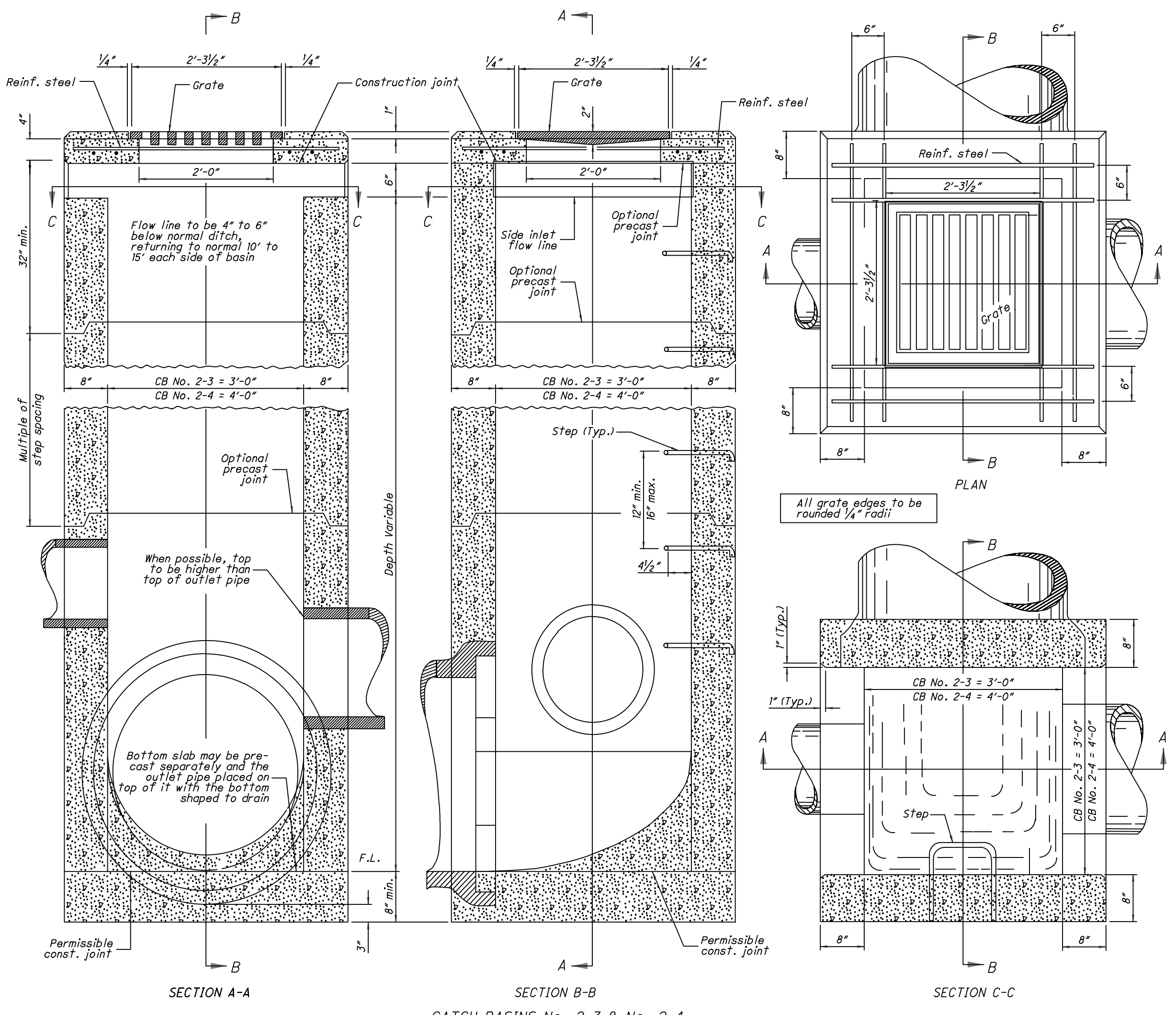
8" CONDUIT
V₁=1027.85

3" ORIFICE INV. = 1027.00
ATTACH THE 2.3" FAIRCLOTH SKIMMER (WITH A 2.5" ORIFICE DIAMETER) ON THE EAST FACE OF THE OUTLET STRUCTURE WHILE THE DRAINAGE AREA IS DESTABILIZED.
SEE THE NON CLOG OUTLET DETAIL BELOW AFTER THE DRAINAGE AREA IS RESTABILIZED.



DS-10A
TYPE: OUTLET STRUCTURE (ODOT 2-4)
STA. 38+60.80, 260.98' LT.
T/G = 1030.00
ORIFICE: 10.8"Hx36"W INV = 1028.00(S)
ORIFICE: 10.8"Hx36"W INV = 1028.00(E)
ORIFICE: 10.8"Hx36"W INV = 1028.00(N)
TEMP. 3" INV = 1028.00 (E)
8" INV = 1027.85

1040				1040
1030				1030
1020				1020
1010				1010
1000				1000
990				990
980				980
970				970
1+00				2+00



NOTES

GENERAL: Catch Basins 2-3 and 2-4 are not intended for Traffic bearing applications.

GRATES: See details on SCD CB-1-L.

If necessary, bicycle safe grates will be specified in the plans. Furnish Neneah No. 18-4853-C or East Jordan No. 5100 Type ILS type grates or approved equals.

CAST the following text into the top of the grate:

"DUMP NO WASTE" and "DRAINS TO WATERWAY"

Print text in bold, capital letters of least 1/2" high. "STREAM, RIVER, LAKE," etc. Actual placement of text may vary a distance from center.

WALLS: Construct brick or cast-in-place walls with a nominal 8" thickness. Provide precast walls of at least 6" thick with sufficient reinforcement to permit shipping and handling without damage.

STEPS: Provide steps where the depth exceeds 6". Meet the requirements of SCD MI-1-L.

CONCRETE: Use 4000 psi compressive strength for cast-in-place concrete. Meet the requirements of SCD MI-1-L for concrete and concrete and mark with the catch basin number.

REINFORCEMENT: Provide #4 bars spaced at 6" center to center for top reinforcing. For Catch Basins 2-3 and 2-4, provide #4 bars and for Catch Basin No. 2-4 use twelve bars.

INLETS OVER 12 FEET DEPTH: Use precast or cast-in-place concrete reinforcement with #4 bars on 12" centers. Reinforce the walls vertically with #2 clearance from inside wall face.

PRECAST BASE: If a precast base is used, set it deep enough so that the Top can be placed on top of the base. The base must be placed on the specified in the plans. Do not use brick layers to adjust the top of the base.

LOCATION AND ELEVATION: When given on the plans, the location and the elevation are at the top center of the grate. When side openings are provided, the elevation is at the flow line of the side inlet.

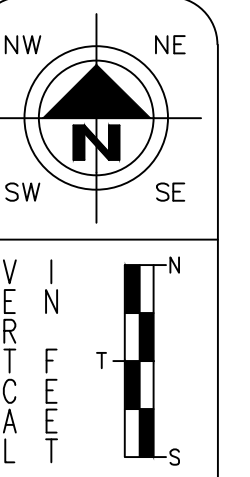
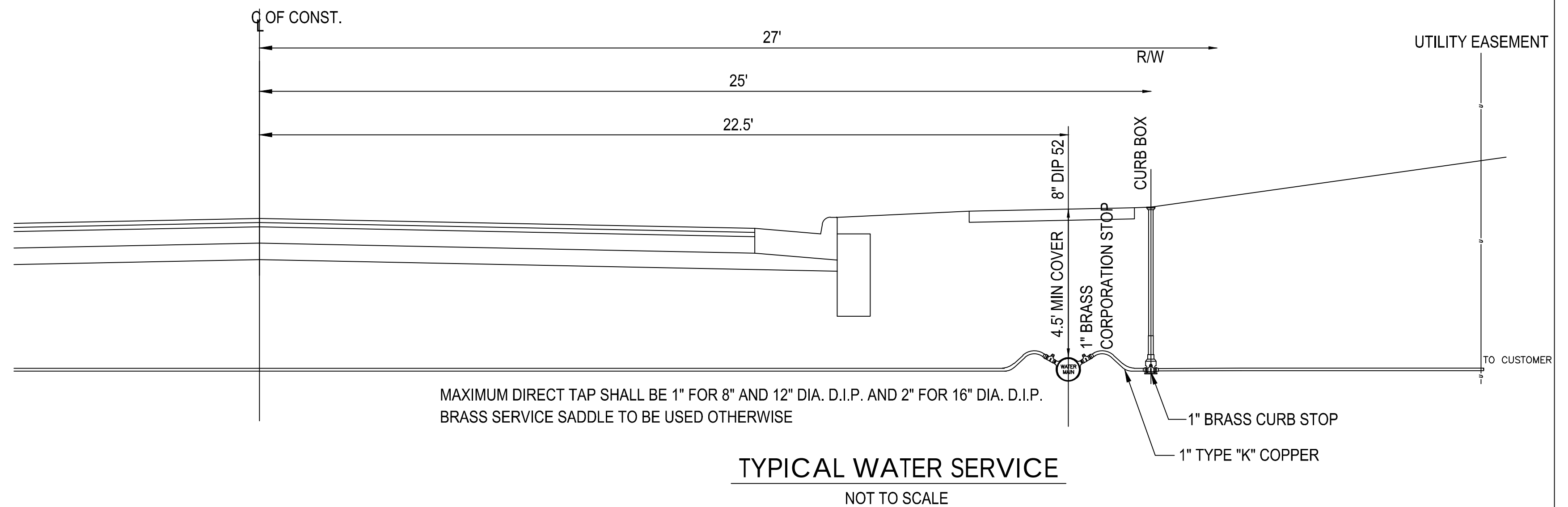
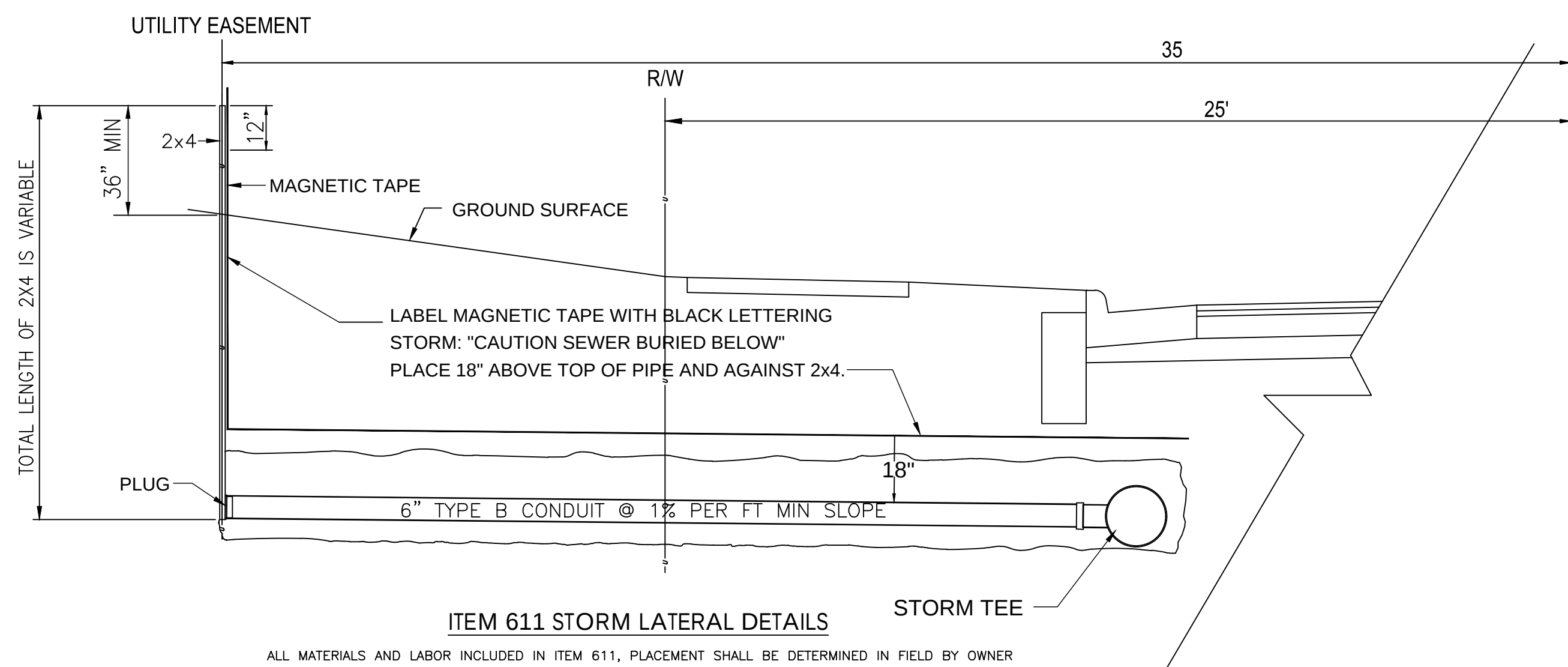
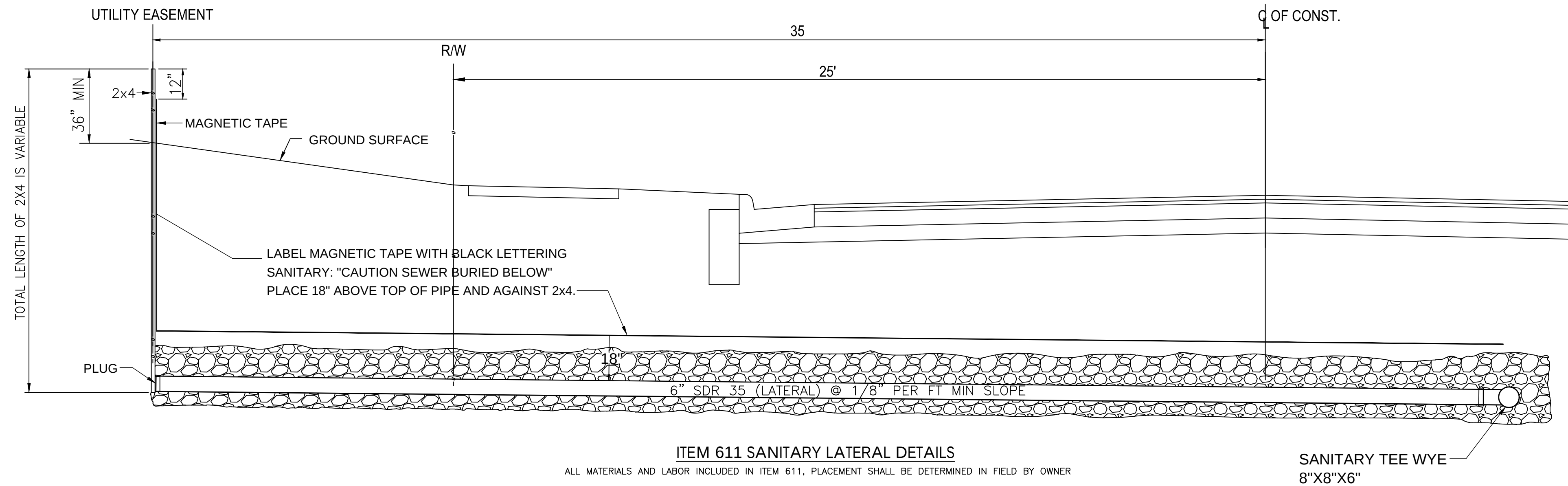
MINIMUM DEPTH: The minimum depth of CBs No. 2-3 and CBs No. 2-4 is the outside diameter (O.D.) of the pipe.

OPENINGS: Ensure pipe openings are the O.D. of the pipe being supported plus .75" when fabricated or field cut. Fill any voids per C&MS 611.

SIDE INLETS: Provide inlets on both sides of the No. 2-3 and 2-4 catch basin in assays and on the side inlet of the No. 2-4 catch basin. Provide a continuous down grade pad the catch basin. Do not provide catch basins with side inlets within the Clear Zone.

PAYMENT: All materials and labor, including excavation and backfill, are paid for under Item 611 - Catch Basins, 2-3 or 2-4 or Item 612 - Catch Basin No. 2-4.

CATCH BASIN	OUTLET PIPE SIZE
2-3	12" to 33"
2-4	36" to 42"



NTS
HORIZONTAL
SCALE IN FEET

CHECKED BY:
KAD

DATE:
FEB. 2023

DRAWN BY:
JTD

DATE:
FEB. 2023

REVISIONS:	DATE	DESCRIPTION	COMMENTS
	9/12/23		

Sippo Reserves Allotment Phases 3 & 4

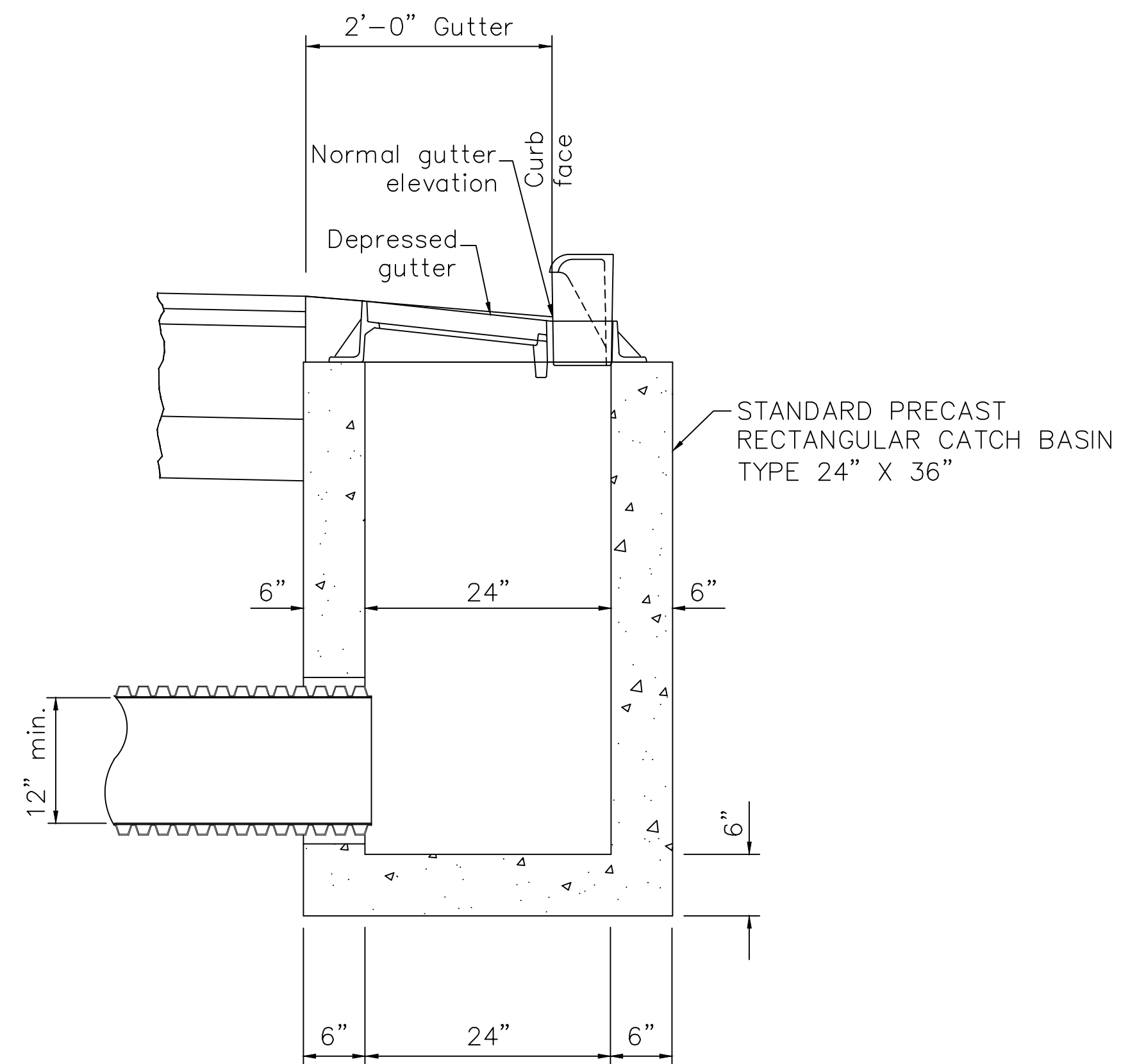
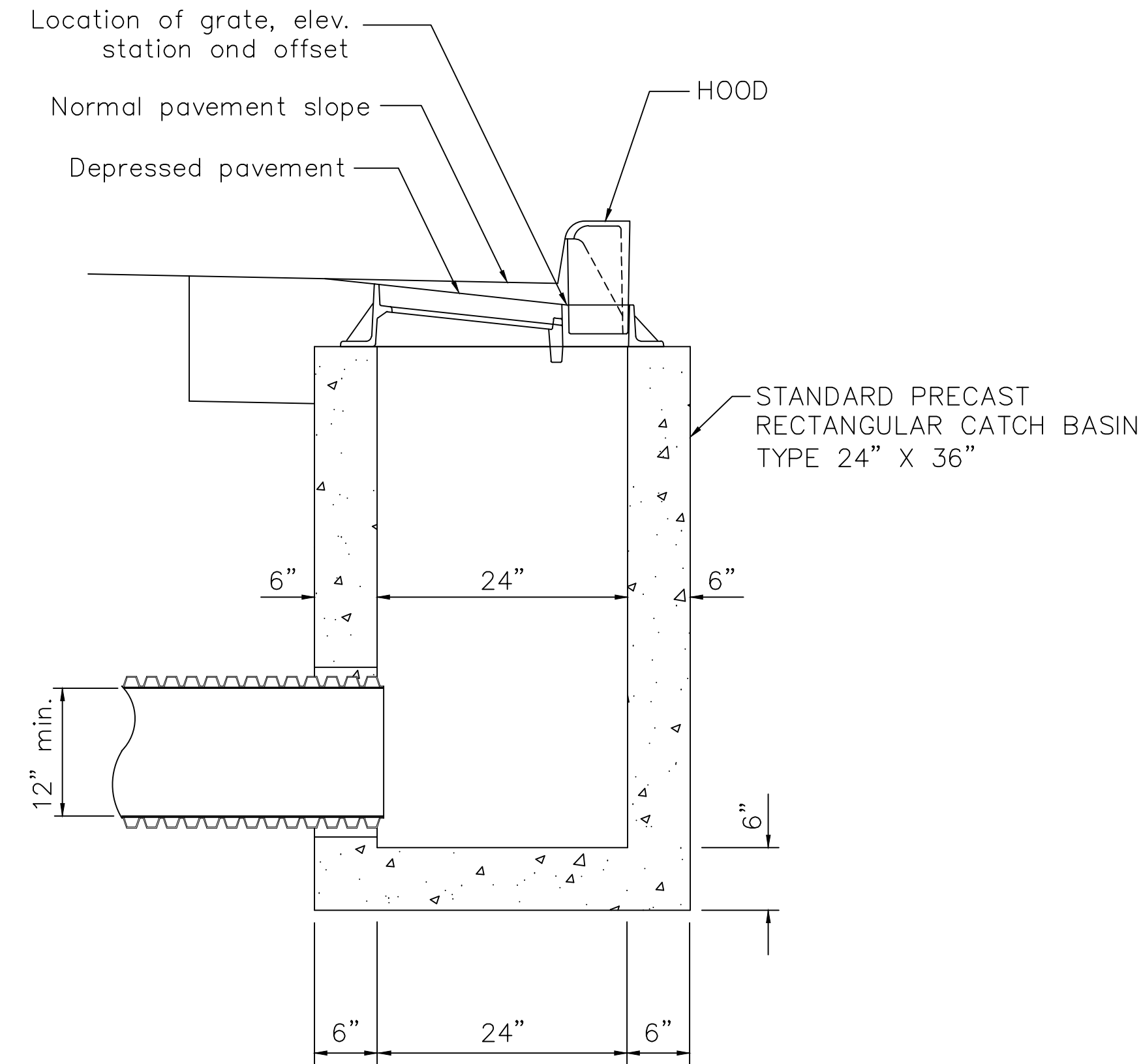
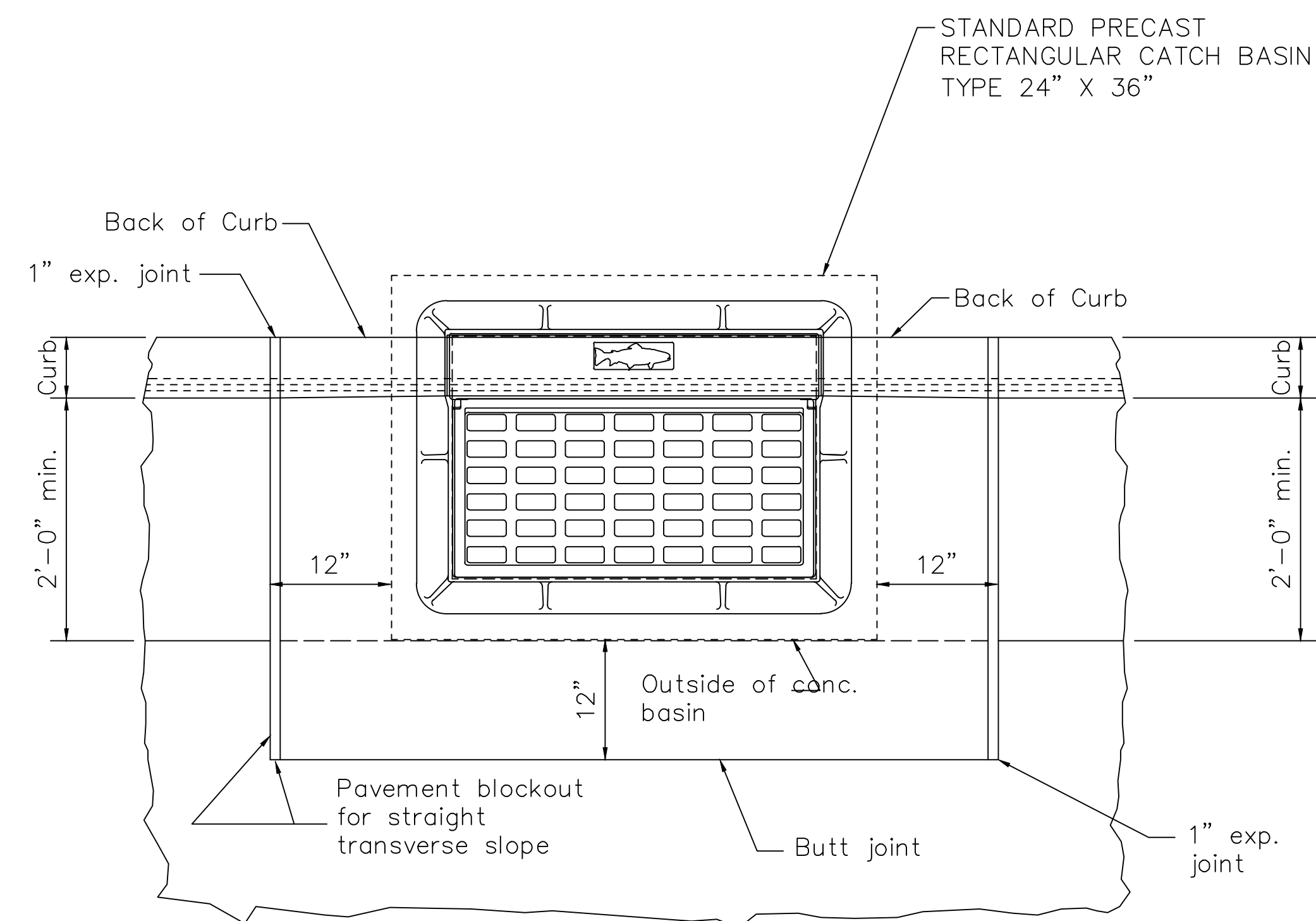
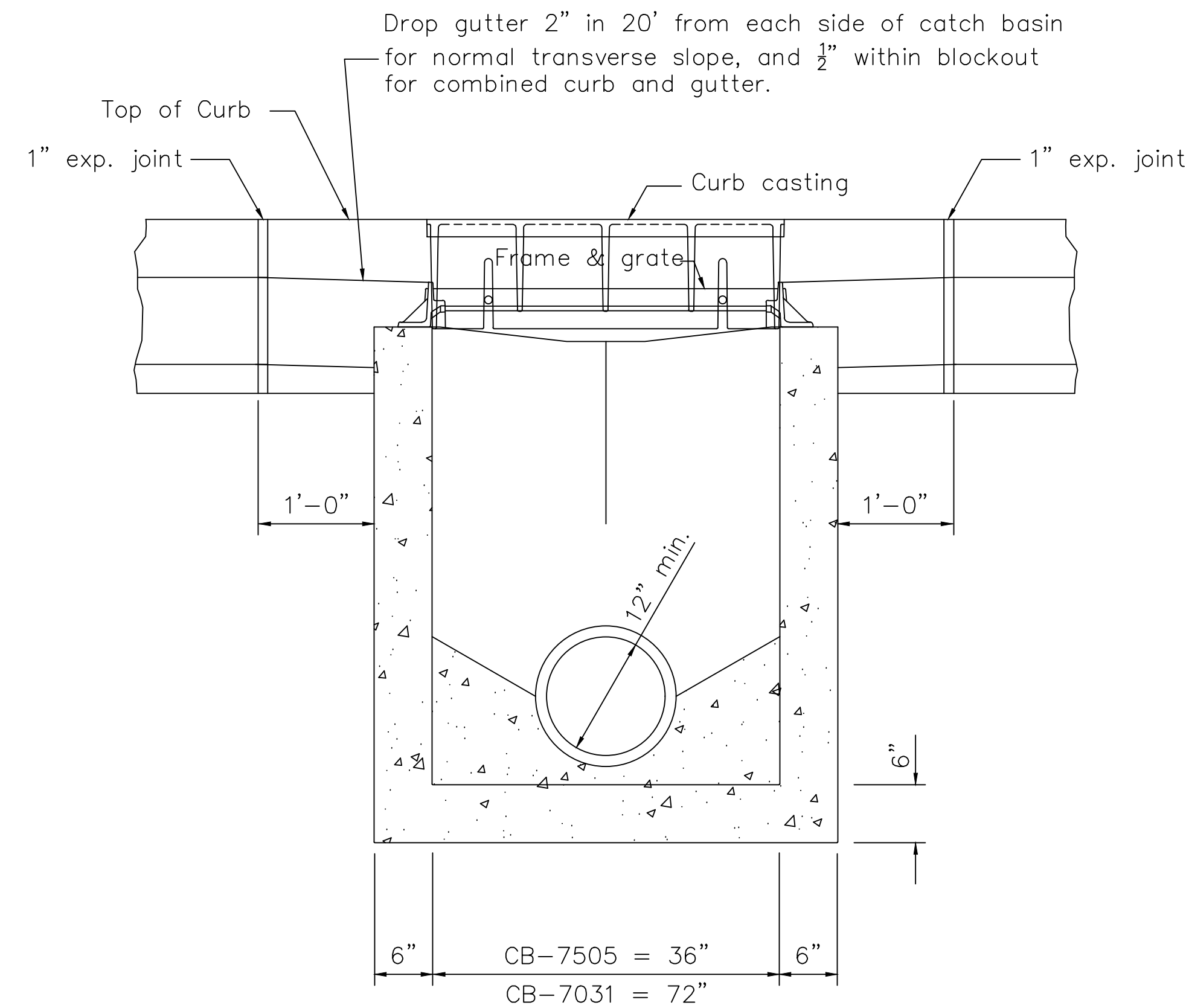
Service Details
City of Massillon
Stark County, Ohio



DRAWING NAME:
Service Details

REF NUMBER:

7505 AND 7031



GRATES: Two required. For details, see EJ 7505Z. provide Grate M1 unless the plans specifically require the bicycle safety grate.

CASTINGS: Provide a design essentially the same and equally as strong as the one shown. Below is a list of approved EJ

Frame	=	7505 Z, 7031 Z
Grate	=	7505 M1,
	=	7505 M3 for bicycle safety
Hood	=	7505 T4
	=	7505 T4 for drop curb areas

BEARING AREAS: Fit and finish the frame and grate to provide a firm seat and even seat. No projections are permitted on bearing areas, and grate must seat in its frame without rocking.

PRECAST CONSTRUCTION: Meet CMS 706.13 concrete requirements. Provide precast walls at least 6" thick with sufficient reinforcing to permit shipping and placement without damage. Reduce the wall thickness from the outside.

MINIMUM DEPTH: The minimum depth is per the cover requirements for that pipe type.

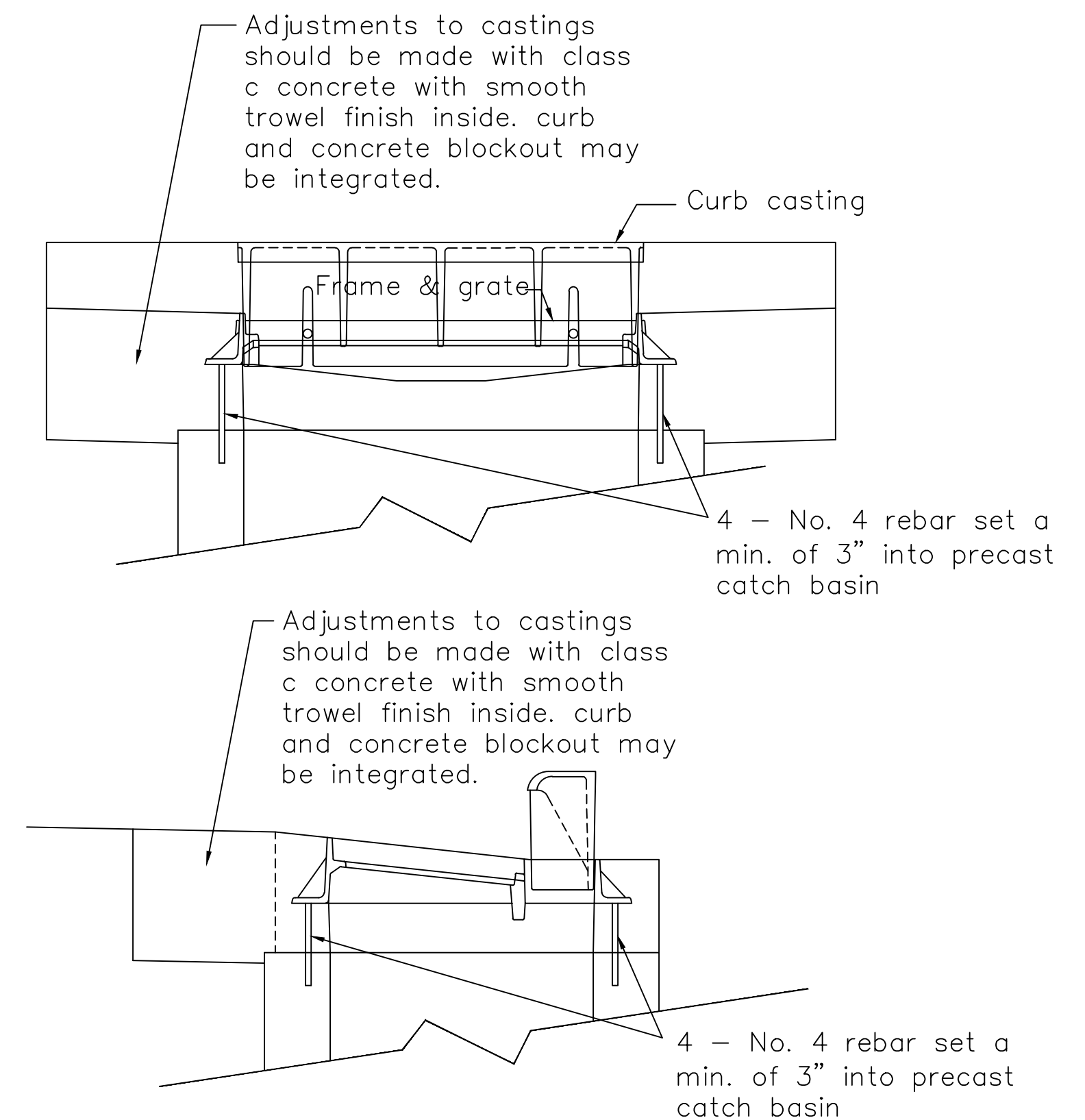
OPENINGS: Obtain the Engineer's approval for any pipe opening greater than 4" from the outside of the pipe to the structure. Fill all voids per CMS 611.

DOWELS: Furnish four 1"x18" dowels for concrete pavement or gutter blackout. See SCD BP-2.2 for dowel details.

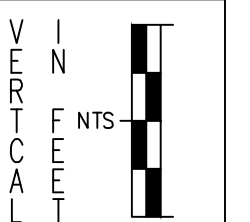
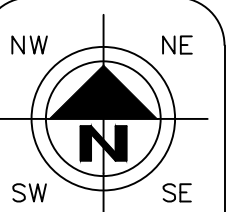
BLOCKOUT: Pave blockouts with 4000 psi compressive strength concrete in PCC pavement or gutter. Blockouts are paid for as part of the catch basin quantities because of the castings. Cast a 4000 psi compressive strength concrete apron, the size of the 2'-0" gutter blackout, in place in asphalt pavement (no dowels required) with the cost included in the catch basin bid price. No deduction is made in curb quantities.

PAYMENT: All materials and labor, including excavation and backfilling, are paid for under Item 611Spec - Catch Basin, Mass7030.

ADJUSTMENT: No brick shall be used to adjust castings height. See Adjustment detail this sheet.



CASTING ADJUSTMENT



NTS
HORIZONTAL
SCALE IN FEET

CHECKED BY:
KAD

DATE:
FEB. 2023

DRAWN BY:
JTD

DATE:
FEB. 2023

REVISIONS:	DESCRIPTION:
DATE	

Sippo Reserves Allotment Phases 3 & 4

Drainage Details
City of Massillon
Stark County, Ohio

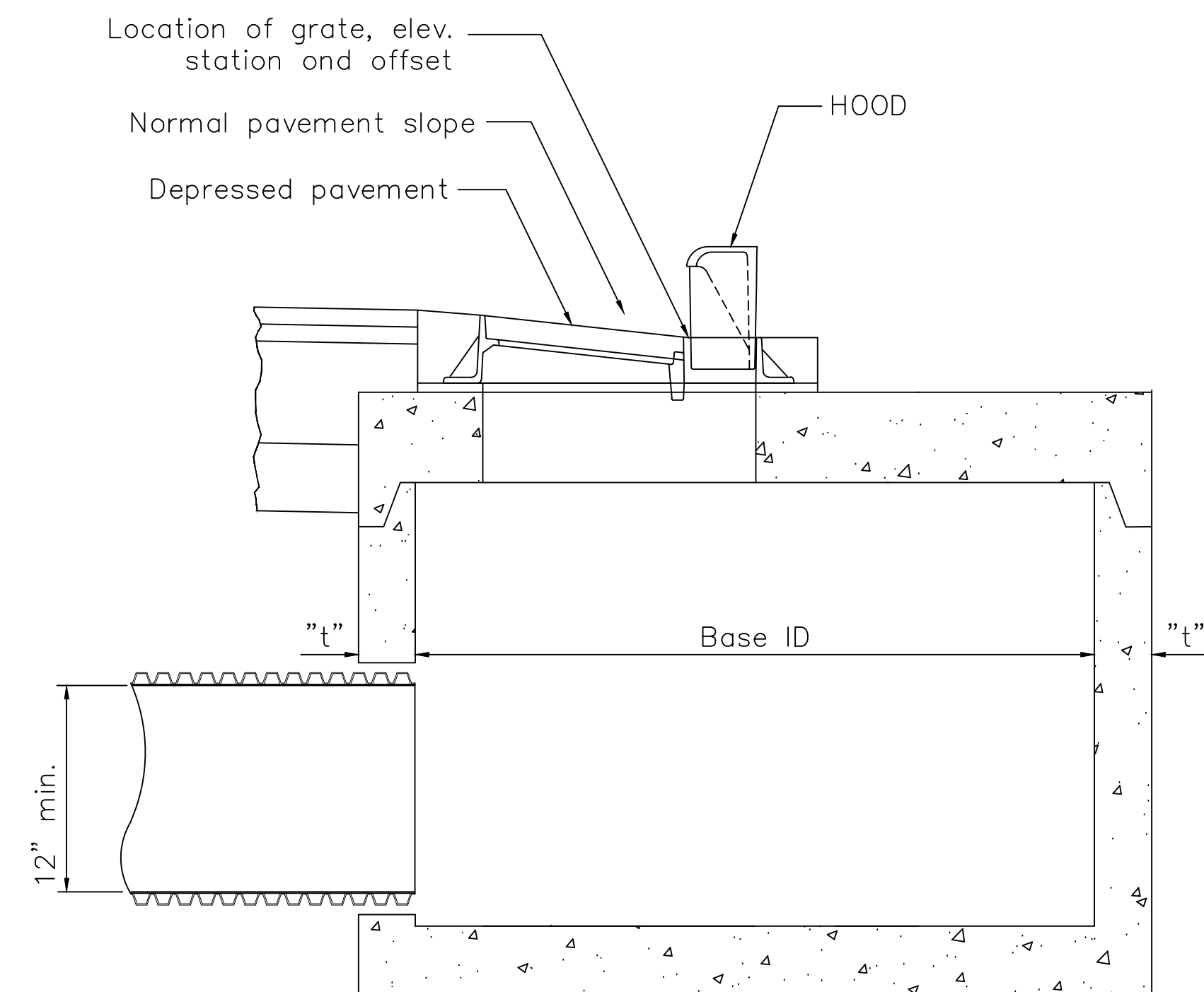
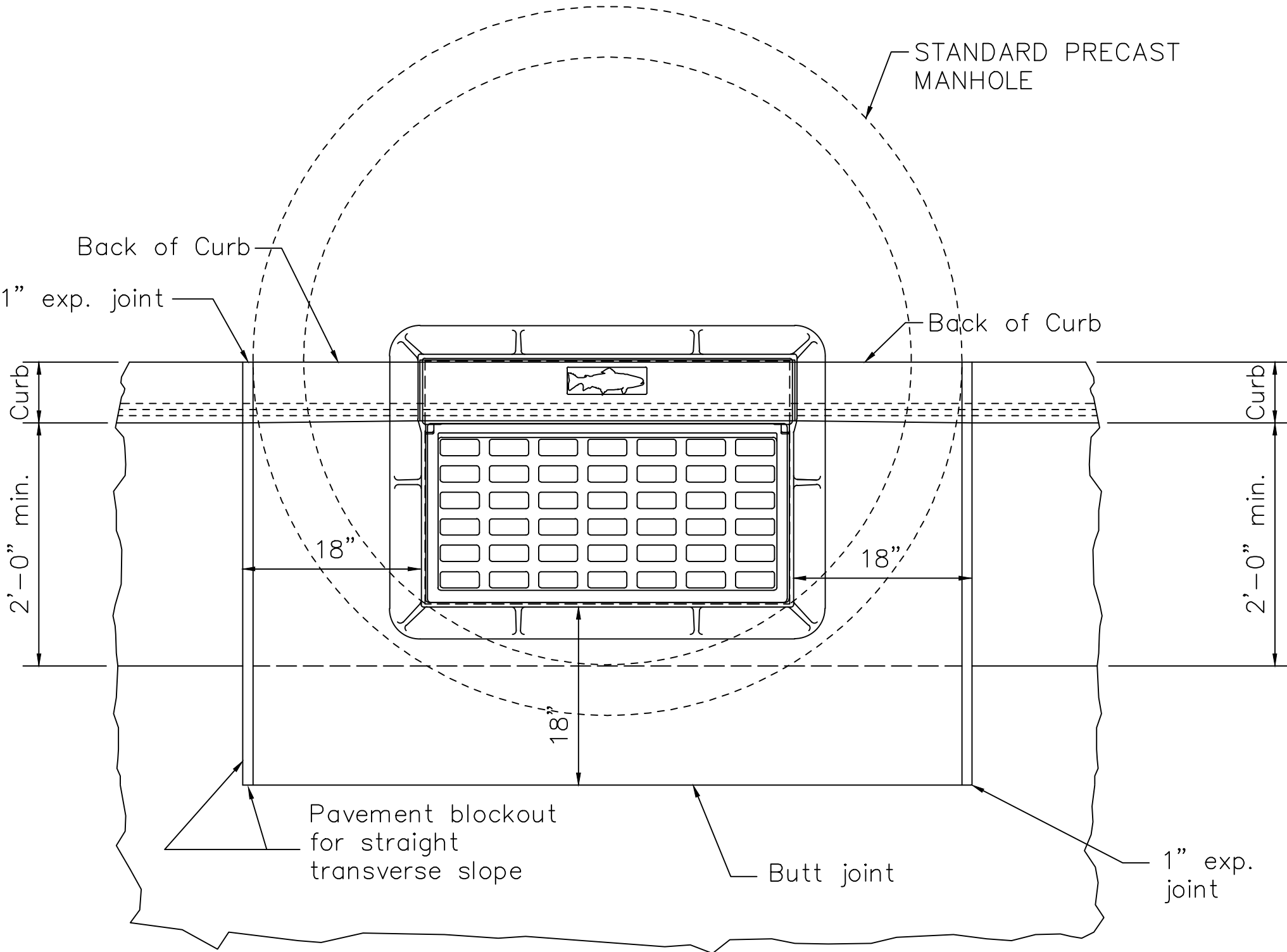
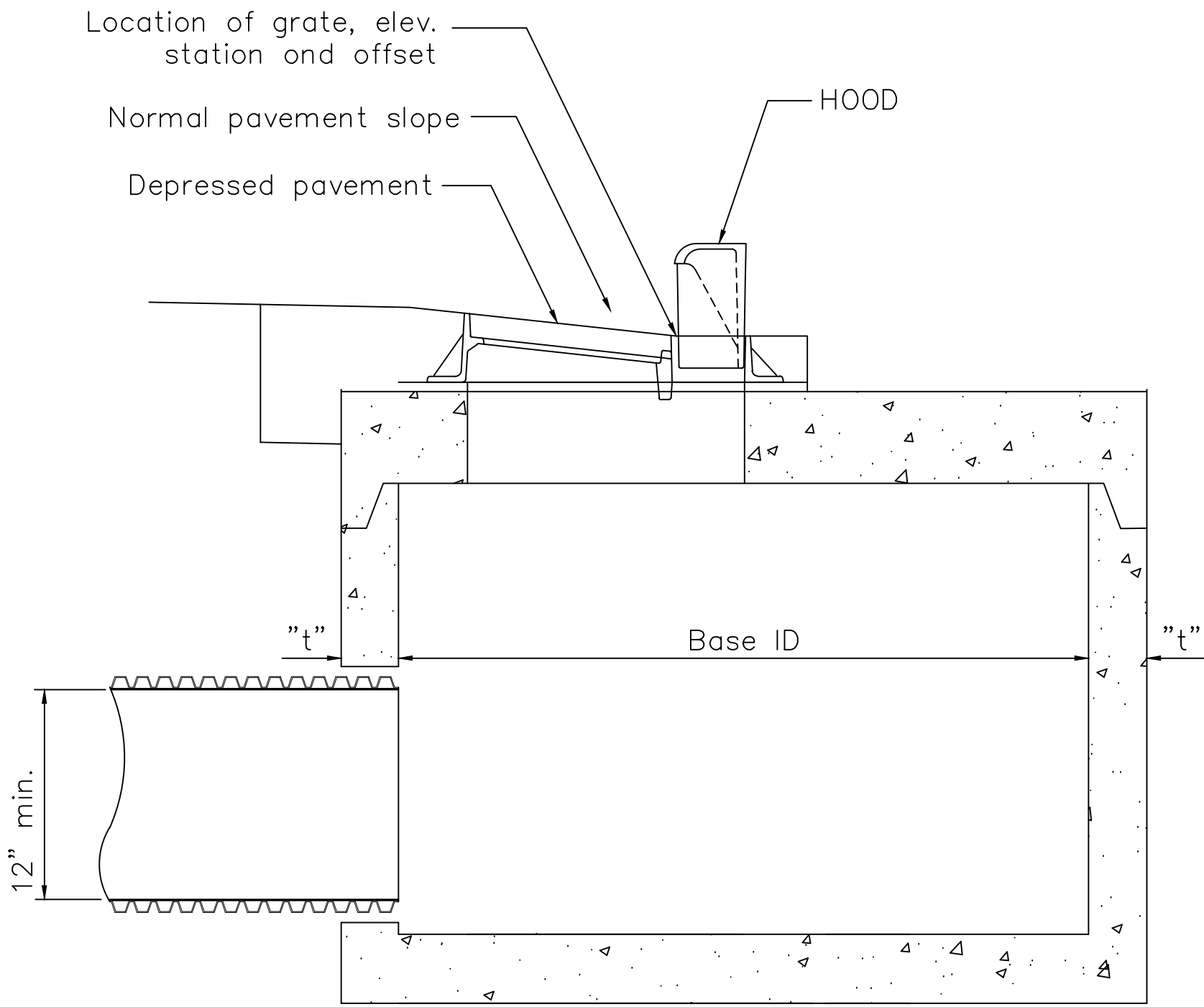
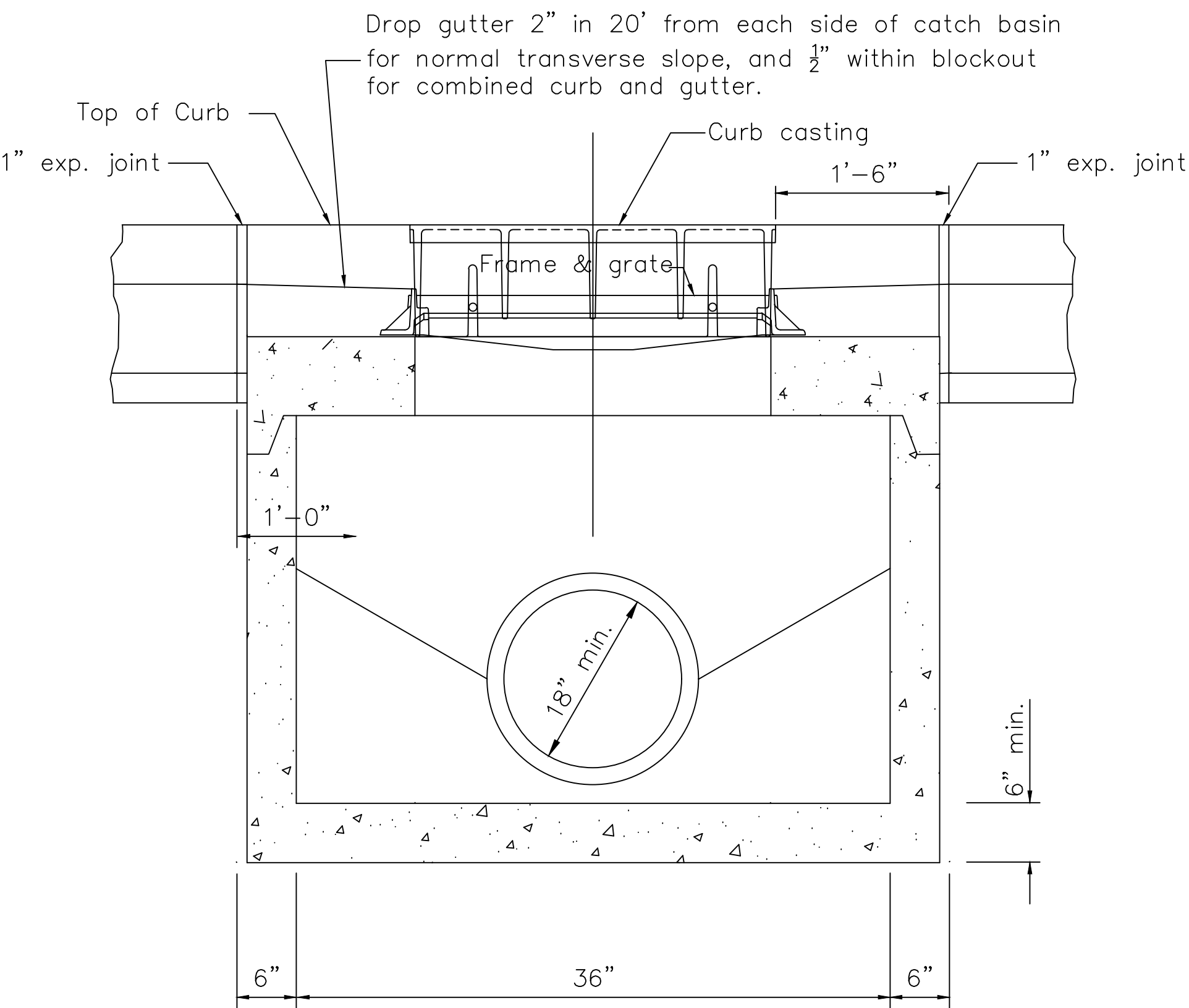
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DRAWING NAME:
Drainage Details 1

REF NUMBER:

25 / 39

MH-7505 AND MH-7031



GRATES: Two required. For details, see EJ 7505Z. provide Grate M1 unless the plans specifically require the bicycle safety grate.

CASTINGS: Provide a design essentially the same and equally as strong as the the one shown. Below is a list of approved EJ

Frame	=	7505 Z
Grate	=	7505 M1
	=	7505 M3 for bicycle safety
Hood	=	7030 T4
	=	7030 T4 for drop curb areas

BEARING AREAS: Fit and finish the frame and grate to provide a firm seat and even seat. No projections are permitted on bearing areas, and grate must seat in its frame without rocking.

MINIMUM DEPTH: The minimum depth is per the cover requirements for that pipe type.

OPENINGS: Obtain the Engineer's approval for any pipe opening greater than 4" from the outside of the pipe to the structure. Fill all voids per CMS 611.

DOWELS: Furnish four 1"x18" dowels for concrete pavement or gutter blackout. See ODOT SCD BP-2.2 for dowel details.

BLOCKOUT: Pave blockouts with 4000 psi compressive strength concrete in PCC pavement or gutter. Blockouts are paid for as part of the catch basin quantities because of the castings. Cast a 4000 psi compressive strength concrete apron, the size of the 2'-0" gutter blackout, in place in asphalt pavement (no dowels required) with the cost included in the catch basin bid price. No deduction is made in curb quantities.

PAYMENT: All materials and labor, including excavation and backfilling, are paid for under Item 611Spec - Manhole Mass7030.

ADJUSTMENT: No brick shall be used to adjust castings height. See Adjustment detail this sheet.

BASE: Manhole 3 is shown with a monolithic floor and riser which may be cast in one or two operations. A permissible alternate is to cast and ship the floor and barrel separately. Provide openings for inlet and outlet pipes, either when the unit is cast or later, to meet project requirement. Bottom channels may be formed of concrete, precast in the base or field constructed.

RISER SECTIONS: Openings for 18" and smaller inlet pipes may either prefabricated or cut in field provided the sides of pipe at the springline do not project into the manhole.

JOINT SEAL: Furnish flexible gasket joints per CMS 706.11.

OPENING: The maximum pipe opening is the O.D. of the pipe being supplied plus 2" when fabricated or field cut. Fill any voids per CMS 611.

MATERIALS: Provide materials for bases and other precast sections, including reinforcement not specified here, that meet the requirements of CMS 706.13

TOP SLAB REBAR: Use epoxy coated reinforcing steel within the top slab.

MAXIMUM PIPE SIZE		
BASE I.D.	MIN. "t"	MAX. PIPE SIZE
60"	5"	36"
72"	6"	48"
84"	7"	54"
90"	7 1/2"	60"
96"	8"	66"
108"	9"	72"

NW

NE

SW

SE

N

1" = 10'

NTS

1" = 10'

NTS

HORIZONTAL SCALE IN FEET

CHECKED BY: KAD

DATE: FEB. 2023

DRAWN BY: JTD

DATE: FEB. 2023

REVISIONS:

DATE	DESCRIPTION

Sippo Reserves Allotment Phases 3 & 4

Drainage Details

City of Massillon

Stark County, Ohio

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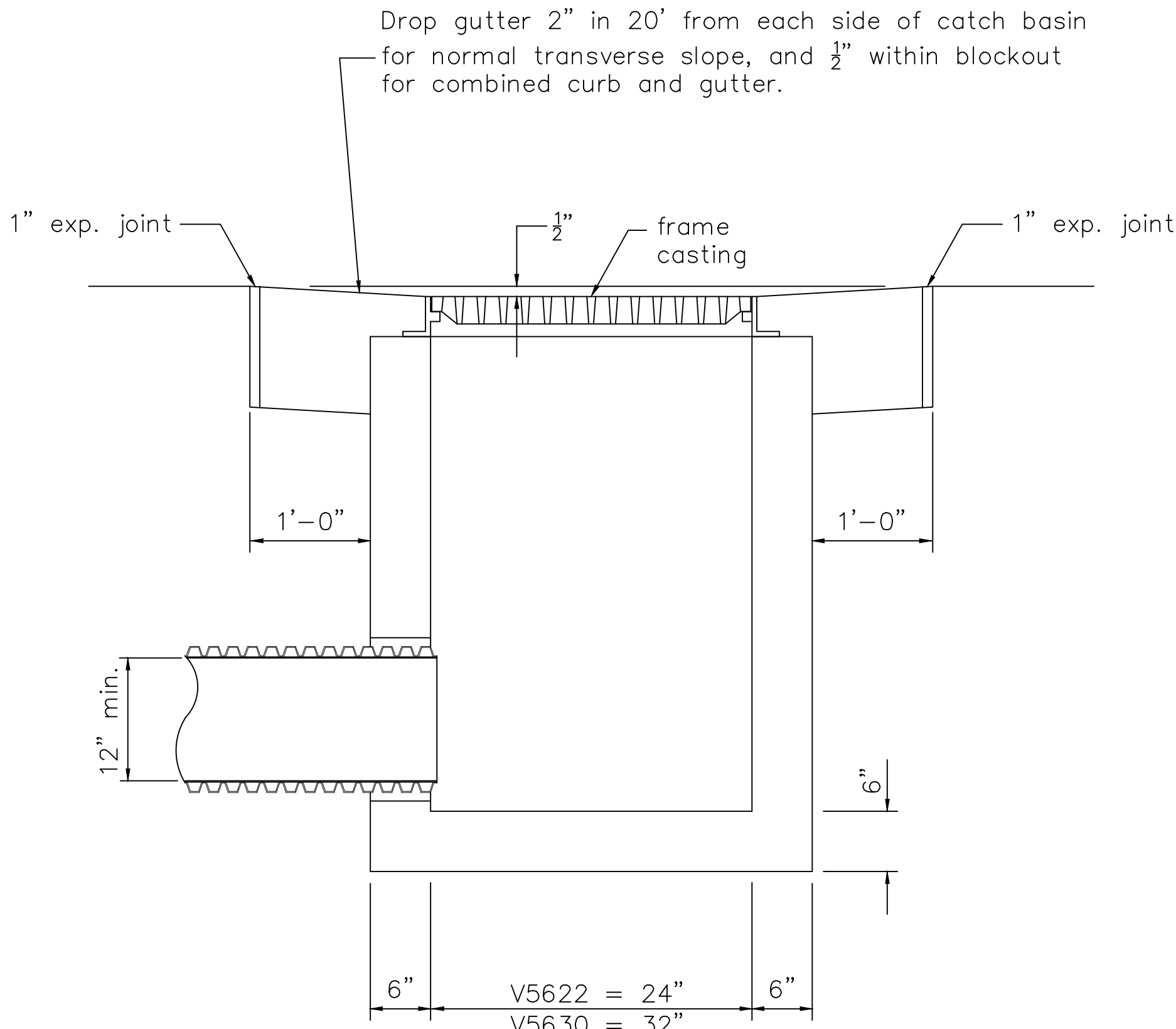
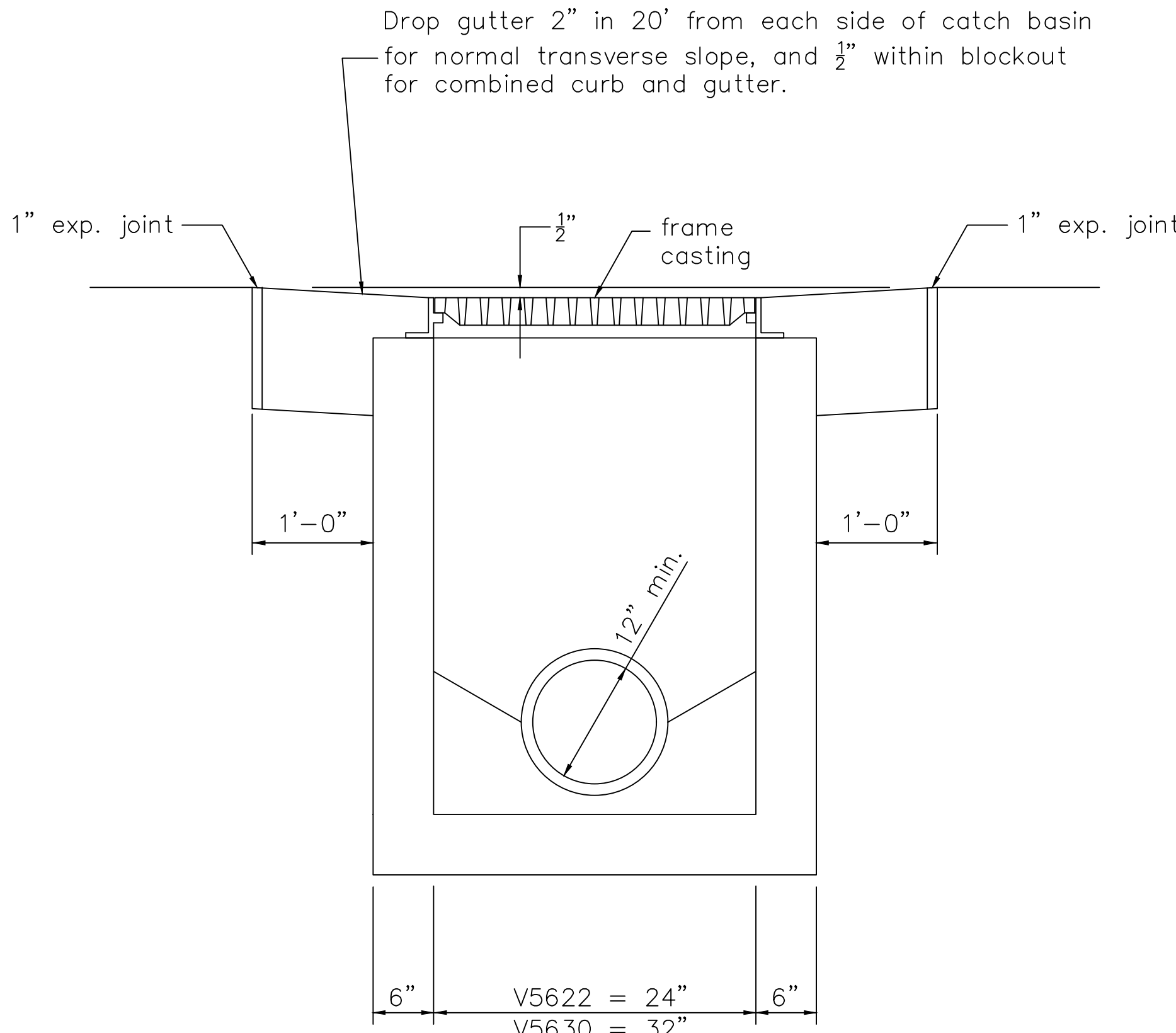
DRAWING NAME:

Drainage Details 2

REF NUMBER:

26 / 39

V5622 AND V5630



GRATES: Two required. For details, see EJ V5630. provide Grate V5630 unless the plans specifically require different grate.

CASTINGS: Provide a design essentially the same and equally as strong as the the one shown. Below is a list of approved EJ

MASS-V5622		
Frame	=	V5622
Grate	=	V5622
MASS-V5630		
Frame	=	V5630
Grate	=	V5630

BEARING AREAS: Fit and finish the frame and grate to provide a firm seat and even seat. No projections are permitted on bearing areas, and grate must seat in its frame without rocking.

PRECAST CONSTRUCTION: Meet CMS 706.13 concrete requirements. Provide precast walls at least 6" thick with sufficient reinforcing to permit shipping and placement without damage. Reduce the wall thickness from the outside.

MINIMUM DEPTH: The minimum depth is per the cover requirements for that pipe type.

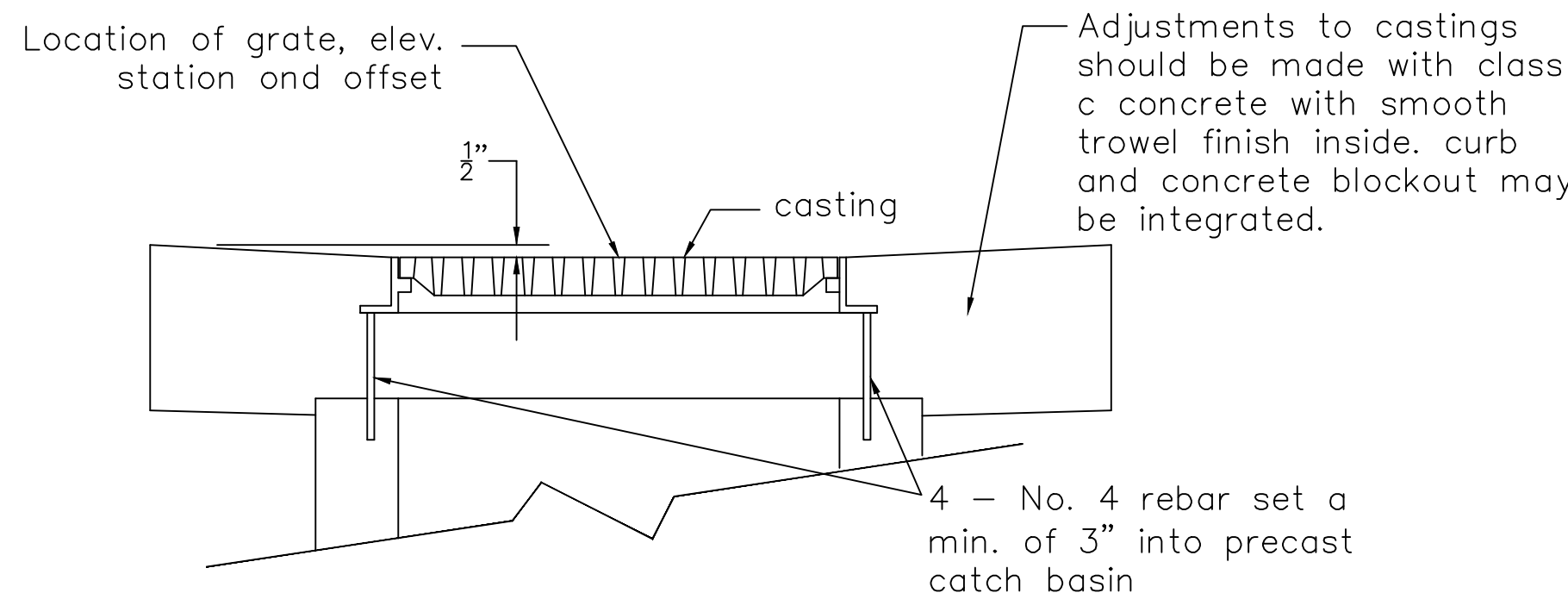
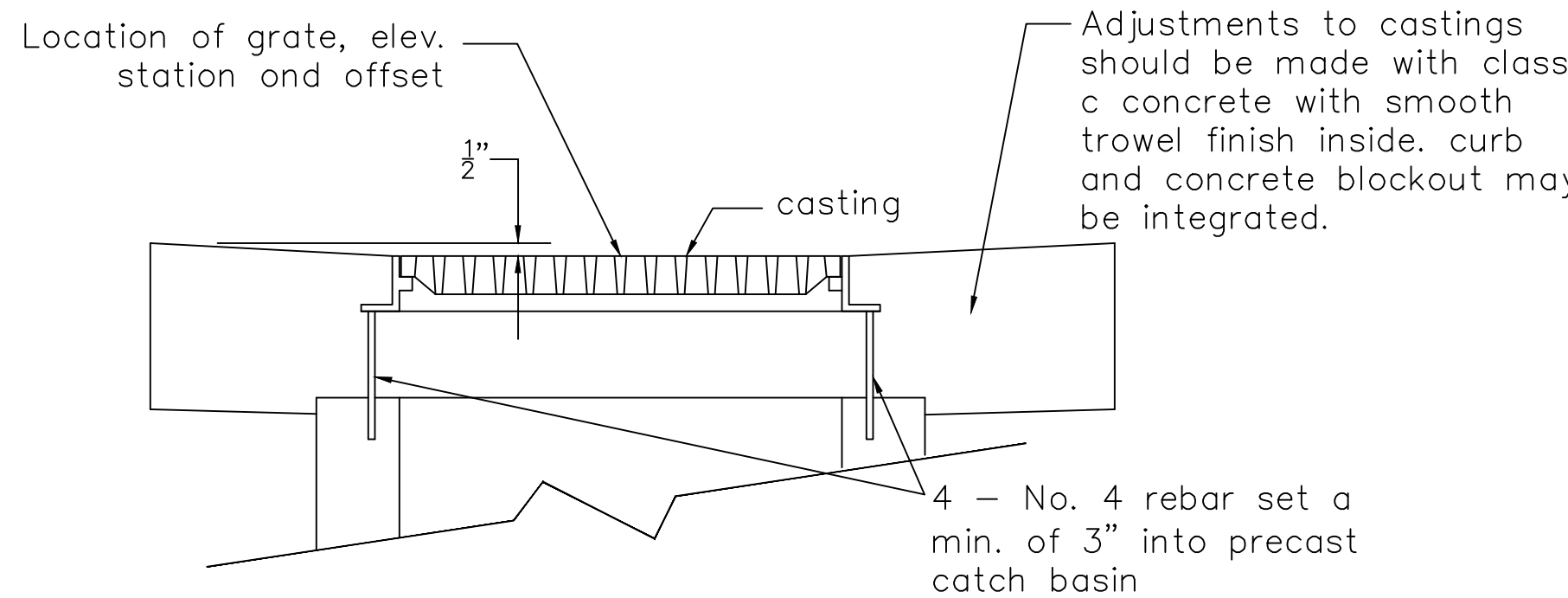
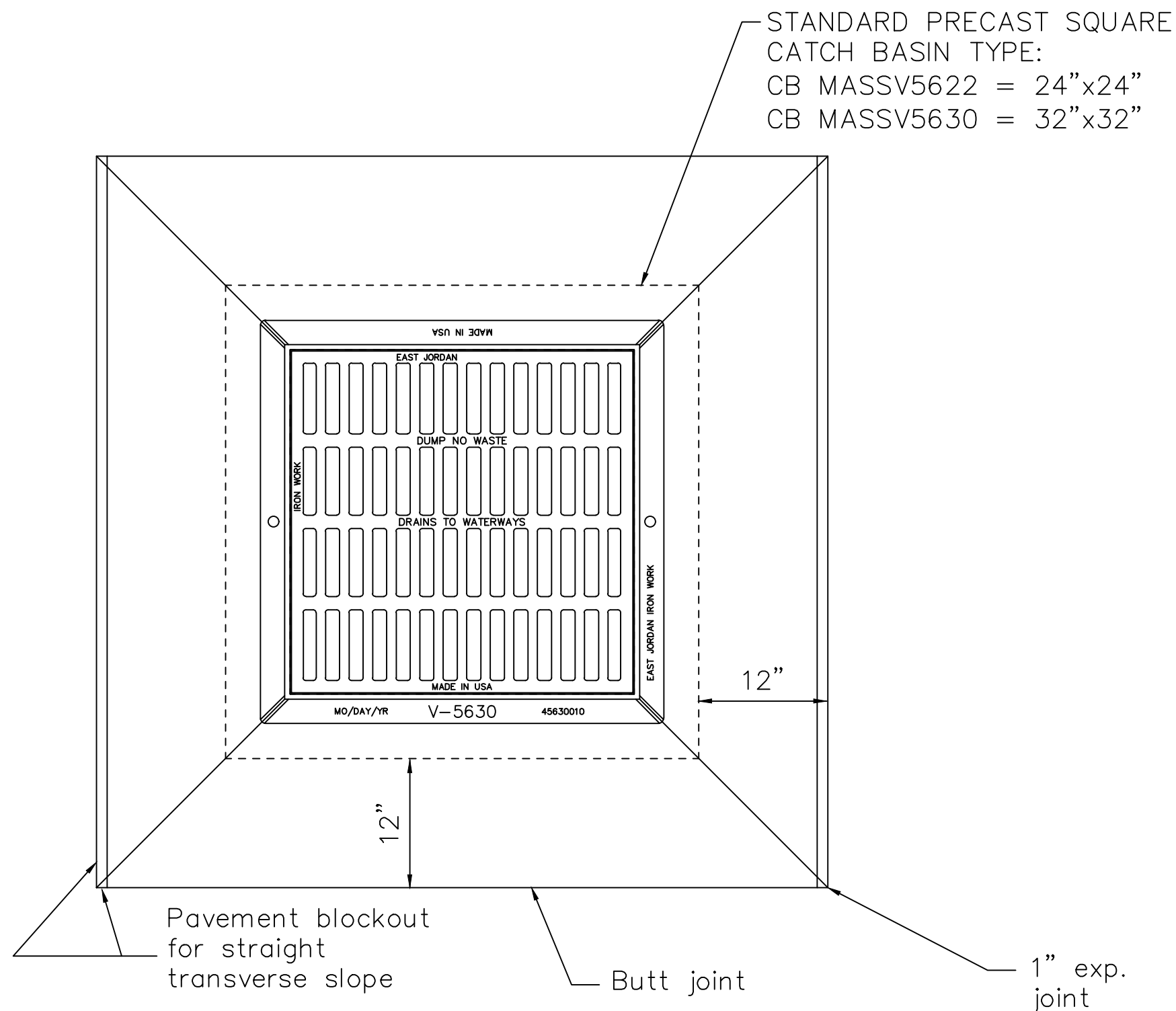
OPENINGS: Obtain the Engineer's approval for any pipe opening greater than 4" from the outside of the pipe to the structure. Fill all voids per CMS 611.

DOWELS: Furnish four 1"x18" dowels for concrete pavement on gutter blockout. See SCD BP-2.2 for dowel details.

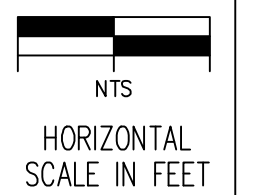
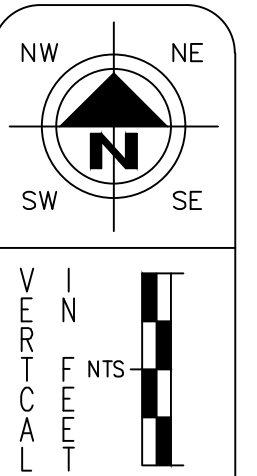
BLOCKOUT: Pave blockouts with 4000 psi compressive strength concrete in PCC pavement or gutter. Blockouts are paid for as part of the catch basin quantities because of the castings. Cast a 4000 psi compressive strength concrete apron, the size of the 2'-0" gutter blockout, in place in asphalt pavement (no dowels required) with the cost included in the catch basin bid price. No deduction is made in curb quantities.

PAYMENT: All materials and labor, including excavation and backfilling, are paid for under Item 611Spec – Catch Basin, Massv5630.

ADJUSTMENT: No brick shall be used to adjust castings height.
See Adjustment detail this sheet.



CASTING ADJUSTMENT



CHECKED BY:
KAD

DATE: FEB 2023

FILED: 2023
DRAWN BY:
ITD

DATE: FEB 22 1997

FEB. 2023					
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REVISIONS:	
DATE	DESCRIPTION

Sippo Reserves Allotment Phases 3 & 4

Drainage Details

Drainage Details
City of Massillon
Stark County, Ohio

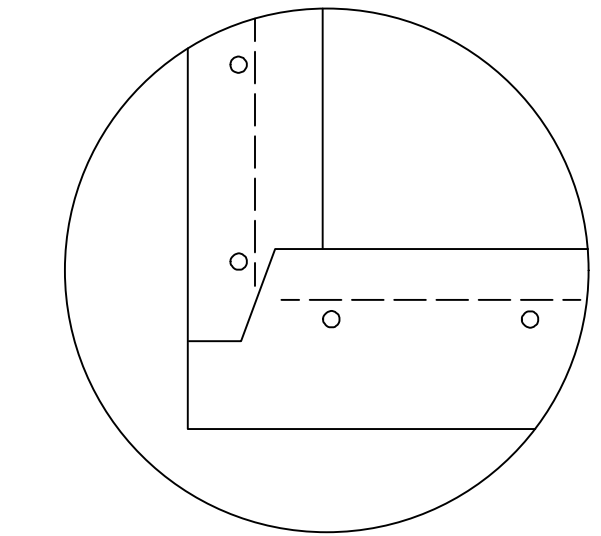
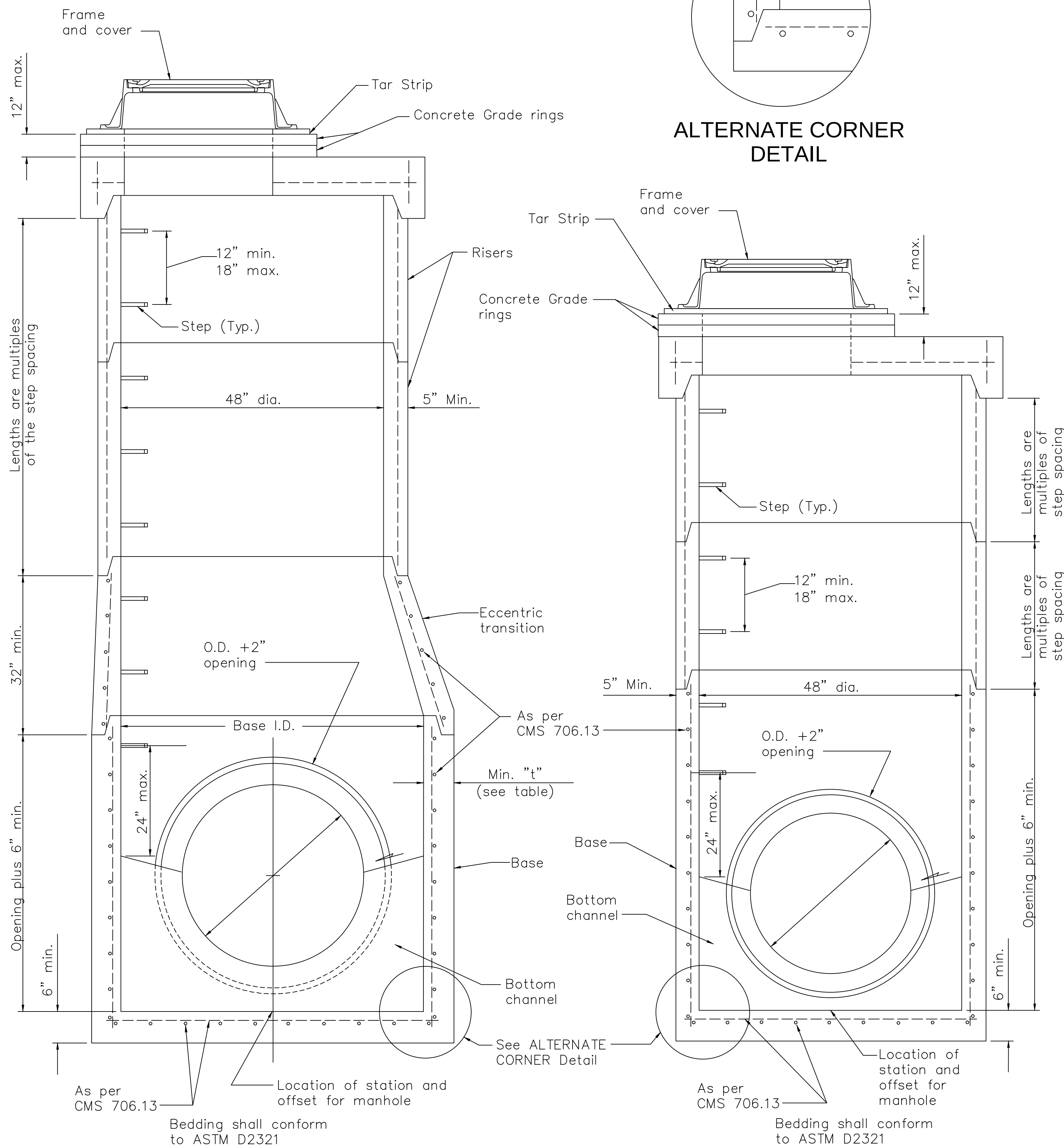
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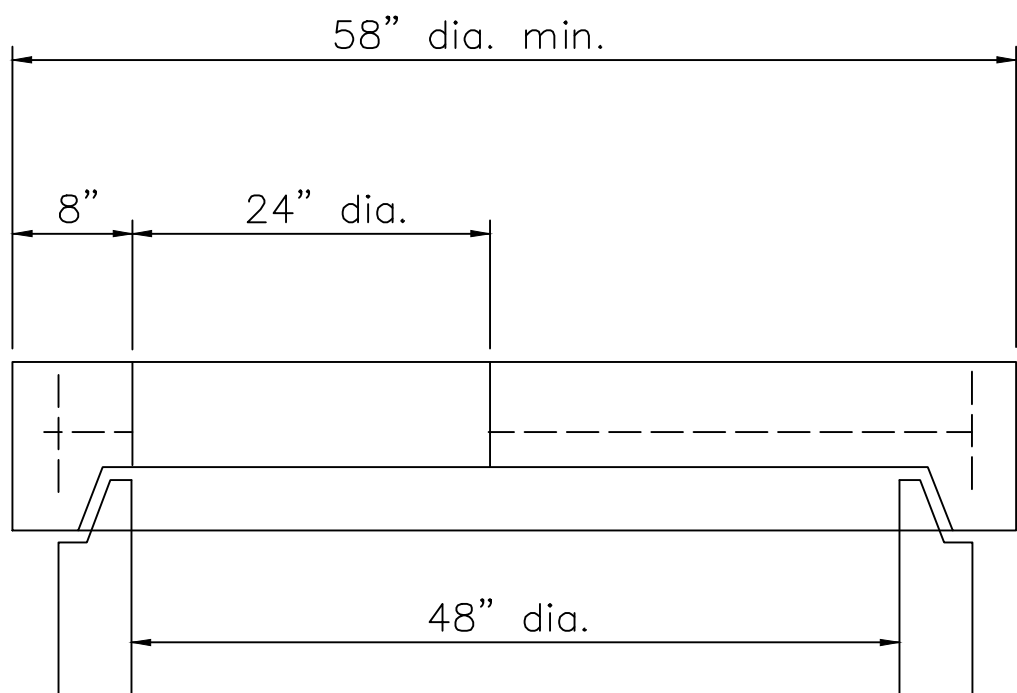
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Drainage Details 3

REF NUMBER:

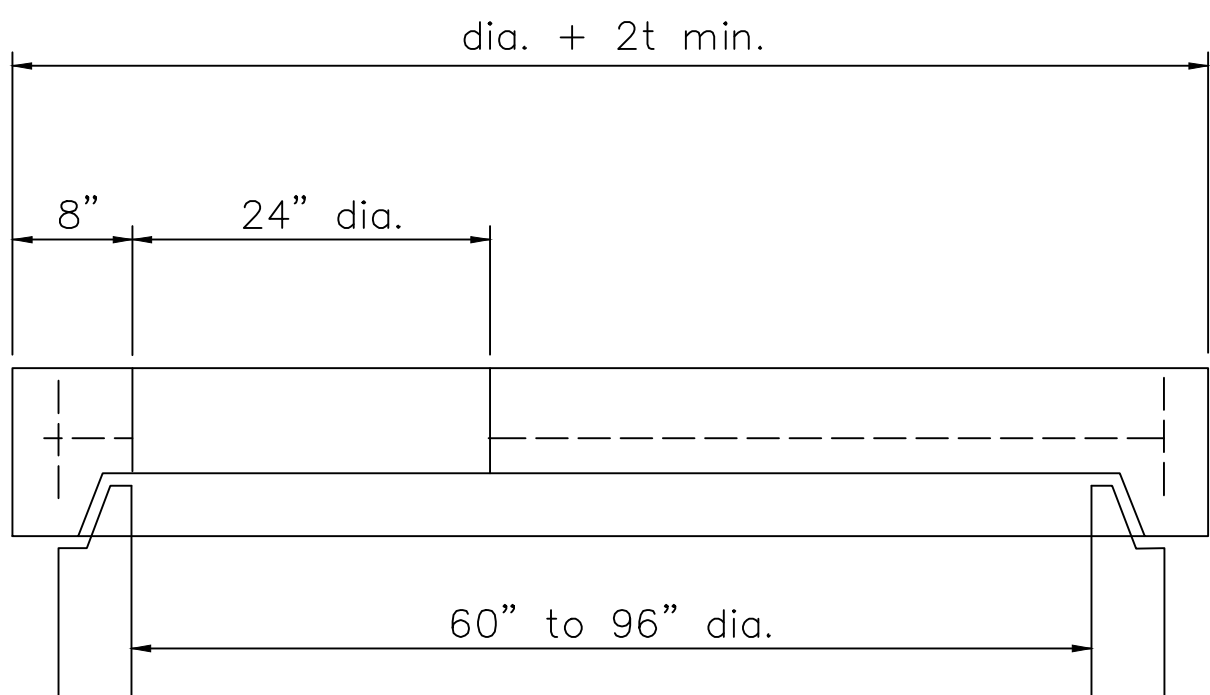
1056 AND 1056AGS



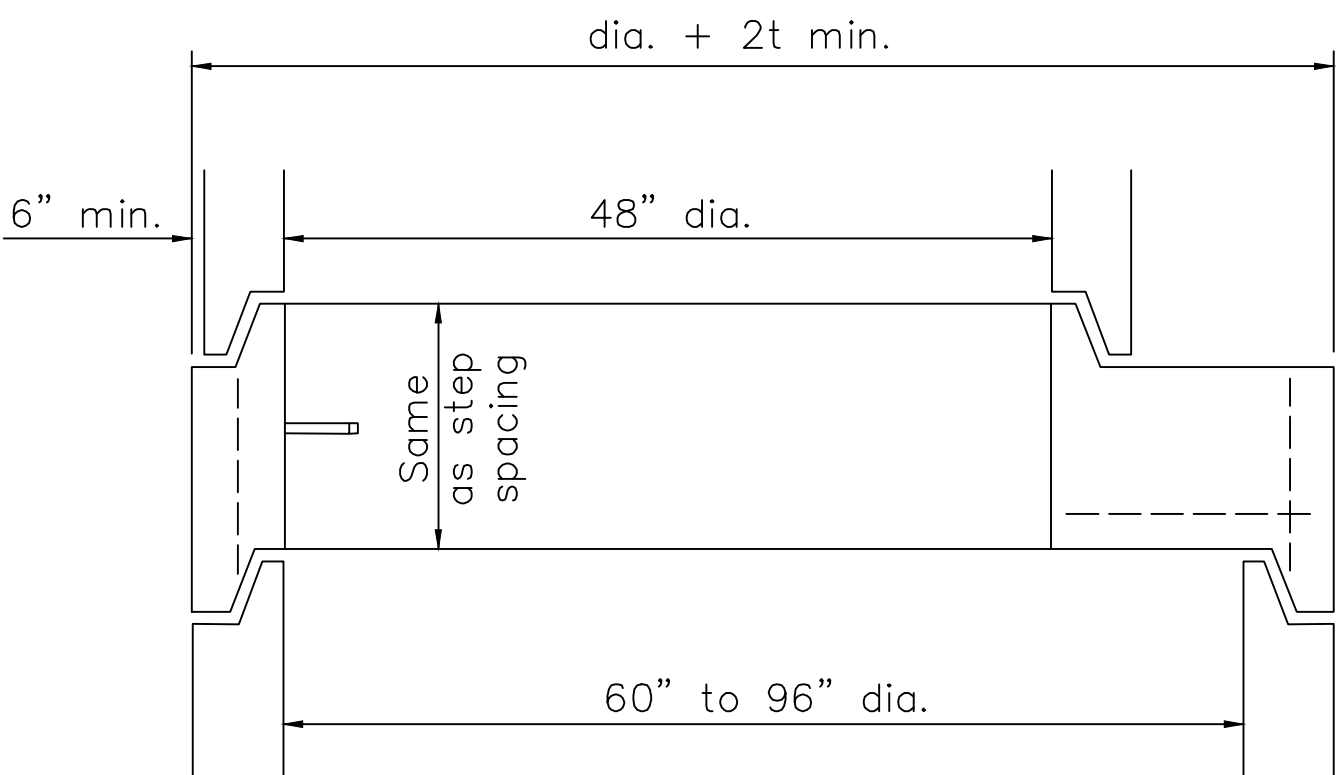
ALTERNATE CORNER
DETAIL



FLAT SLAB TOP



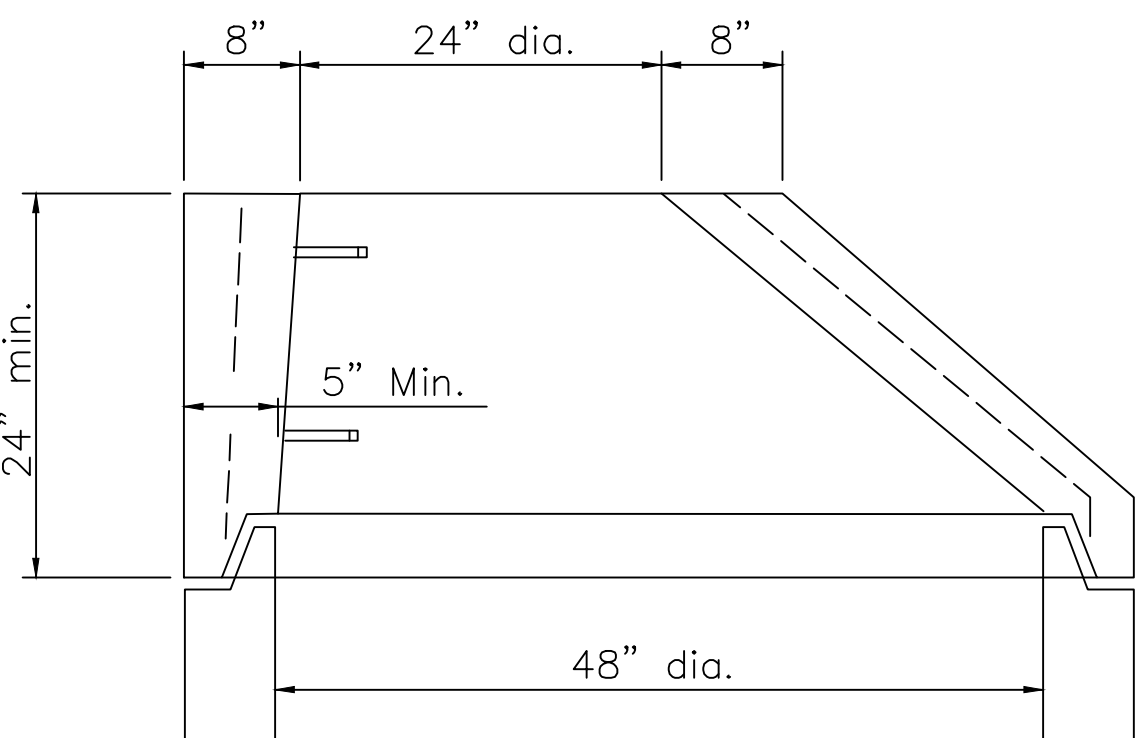
FLAT SLAB TOP



FLAT SLAB TRANSITION

MAXIMUM PIPE SIZE

BASE I.D.	MIN. "t"	MAX. PIPE SIZE
60"	5"	36"
72"	6"	48"
84"	7"	54"
90"	7 1/2"	60"
96"	8"	66"
108"	9"	72"



ALTERNATE
ECCENTRIC CONE TOP

GENERAL: With normal soil and site conditions, this standard precast manhole may be used for any required manhole depth. Cast and assemble sections of the precast manhole with either all tongue or all groove ends up. Lift holes may be provided in each section for handling. Leave handling device for flat slab in place.

CASTINGS: Provide a design essentially the same and equally as strong as the the one shown. Below is a list of approved EJ

DRAINAGE: Cover = Massillon 1040A
Cover = 1040 M3 ADA(WHEN SPECIFIED)
Frame = 1048

SANITARY: Cover = Massillon 1040AGS
Frame = 1048

TOP: Provide a flat slab for this section unless an eccentric cone is specified.

TRANSITION (OR REDUCER): This section can be either eccentric cone or flat slab.

BASE: Manhole is shown with a monolithic floor and riser which may be cast in one or two operations. A permissible alternate is to cast and ship the floor and barrel separately. Provide openings for inlet and outlet pipes, either when the unit is cast or later, to meet project requirement. Bottom channels may be formed of concrete, precast in the base or field constructed.

RISER SECTIONS: Openings for 18" and smaller inlet pipes may either prefabricated or cut in field provided the sides of pipe at the springline do not project into the manhole.

CONNECTIONS: Connections between precast manhole sections and pipes on sanitary sewers may be sealed with a resilient connectors conforming to ASTM C 923.

JOINT SEAL: Furnish resilient seal between precast manhole sections on sanitary sewers and flexible gasket joints per ASTM C-443.

OPENING: The maximum pipe opening is the O.D. of the pipe being supplied plus 2" when fabricated or field cut. Fill any drainage manhole voids per CMS 611.

MATERIALS: Provide materials for bases and other precast sections, including reinforcement not specified here, that meet the requirements of C-478

DROP PIPE: When specified on the plans, construct drop pipe as shown on SCD MASS1048-DROP.

TOP SLAB REBAR: Use epoxy coated reinforcing steel within the top slab.

NW NE
SW SE
N
0 100 200
HORIZONTAL
SCALE IN FEET
CHECKED BY:
KAD
DATE:
FEB. 2023
DRAWN BY:
JTD
DATE:
FEB. 2023
REVISIONS:
DATE DESCRIPTION

Sippo Reserves Allotment Phases 3 & 4
MH-MASS1048A AND MH-MASS1048AGS
City of Massillon
Stark County, Ohio

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PHONE: (330) 268-3734 EMAIL: KAD@CIVPROENGINEERING.COM
WWW.CIVPROENGINEERING.COM

DRAWING NAME:
Manhole Details
REF. NUMBER:

DUCTILE IRON PIPE. Type required: push-on joints, cement lined, pressure class 52 for 4 inch through 16-inch, manufacturing standards AWWA C150 and C151. Polyethylene encasement shall be installed on all ductile pipe and fittings.

FIRE HYDRANTS. Type required: post type breakable flange design for traffic collisions, 5.25 inch diameter main valve, one 5inch Storz connection and two 2.5 inch hose nozzles 6" MJ inlet, main valve to open left, direction of opening to be indicated with arrow cast on hydrant, to be designed for 5 foot trench, National Standard threads on nozzles, O-ring packing preferred, type 304 stainless steel bolts and nuts, operating nut and nut on caps: 1.5 inch pentagon, color yellow paint on body trimmed with red paint on bonnet and caps. AWWA standard C502, Mueller Centurion A423-539382, US Pipe M-94 or Clow Medallion.

4inch THROUGH 12inch GATE VALVES. Type required: resilient seat, iron body, stainless steel bonnet bolts and nuts, mechanical joint accessories, non-rising stem, for underground service, O-ring packing preferred, **OPEN RIGHT** (clockwise), 2-inch square operating nut, manufacturing standards and pressure ratings AWWA C515, Mueller A-2361 or equal.

2inch WATER MAIN. 2inch water main shall be soft drawn type K copper tubing or high-density polyethylene plastic (HDPE), copper tube size, as called out on the plan. If HDPE is used, it shall be 200 psi, SDR 9 with marking tape and a 12-gage copper tracer wire laid in the trench. Brass compression fittings shall be used. Stainless steel stiffeners are necessary at each joint.

BLOW OFF ASSEMBLIES. Type required: Kupferle Foundry TF500 or approved equal. Install in valve box. Install 2inch curb stop with curb box ahead of each blow off.

1. CONTRACTOR TO PROVIDE LINE AND GRADE STAKES AT 100' INTERVALS FOR WATER MAIN AND FOR EACH FITTING AND APPURTENANCE. A COPY OF CUT SHEET SHALL BE PROVIDED TO FIELD INSPECTOR PRIOR TO INSTALLATION.

4. A MINIMUM OF 5 FEET HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN UTILITY CONDUIT CROSSOVERS AND WATERLINE APPURTENANCES, I.E. HYDRANTS, VALVES, TEES, ETC.

6. WATERLINE MATERIAL AND INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH AQUA OHIO SPECIFICATIONS, CLASS 52 D.I.P. POLYWRAPPED, FITTINGS CLASS 53 CEMENT LINED POLYWRAPPED AND 1" K COPPER TUBING WITH COMPRESSION FITTINGS FOR DOMESTIC SERVICES OR 2" HDPE SDR 9 POLYETHYLENE 3408 PIPE AROUND CUL-DE-SAC. IF POLYETHYLENE IS USED, A 12 GAUGE WIRE AND METALLIC CAUTION TAPE MUST BE USED.

8. ALL MECHANICAL JOINTS ARE TO BE RESTRAINED USING MEGALUG OR FORD EQUIVALENT. FIRE LINE RISERS TO INCLUDE (2) 5/8 inch ALL THREAD RODS EXTENDING FROM LOWER BEND TO RISER FLANGE.

10. ALL DUCTILE IRON PIPE AND FITTINGS TO BE POLYWRAPPED AND TAPED AS PER DUCTILE IRON PIPE RESEARCH ASSOCIATION RECOMMENDATIONS.

12. ALL THRUST BLOCKING WILL BE SOLID CONCRETE BLOCKS WITH OAK WEDGES OR POURED CONCRETE, PER AQUA STANDARDS DRAWING.

14. ALL FIRE HYDRANTS TO HAVE A MINIMUM OF 0.5 INCH CUBIC YARD OF NUMBER 57 LIMESTONE 6 inch ABOVE DRAIN HOLE OR EQUIVALENT SIZE BANK RUN GRAVEL. PLASTIC SHALL BE PLACED OVER STONE PRIOR TO BACKFILL. ALL HYDRANTS TO BE TURNED WITH 4.5 inch NOZZLE FACING STREET WITH 5 inch STORZ FITTING AND MEETING FIRE DEPARTMENT SPECIFICATIONS.

16. WATERLINE WILL NOT BE ACCEPTED OR PLACED IN SERVICE UNTIL CONTRACTOR CONDUCTS AND OBTAINS SATISFACTORY RESULTS OF PRESSURE AND CHLORINE TESTS. BACTERIA TEST WILL THEN BE CONDUCTED BY AQUA OHIO. ALL VALVES, HYDRANTS, AND CURB BOXES ARE TO BE AT PROPER GRADE PRIOR TO ACCEPTANCE.

18. THE LOCATION OF EXISTING UTILITIES AND STRUCTURES, BOTH ABOVE GROUND AND UNDERGROUND ARE SHOWN ON THE PLANS FROM DATA AVAILABLE AT THE TIME OF THE SURVEY AND ARE NOT NECESSARILY COMPLETE AND/OR CORRECT. THE EXACT LOCATION AND PROTECTION OF EXISTING UTILITIES AND STRUCTURES IS THE RESPONSIBILITY OF THE CONTRACTOR. DURING CONSTRUCTION, THE CONTRACTOR SHALL USE DUE DILIGENCE IN PROTECTING FROM DAMAGE ALL EXISTING UTILITIES AND STRUCTURES WHETHER SHOWN ON PLANS OR NOT. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR RESTORATION OF SAME IN ACCORDANCE WITH THE DIRECTIONS OF THE OWNER. THE CONTRACTOR SHALL CONTACT OHIO UTILITIES PROTECTION SERVICE, AT

19. THE WATERLINE SHALL BE INSTALLED AT 4 ft. OF COVER FROM EXISTING/PROPOSED GRADE TO TOP OF THE WATERLINE. THIS 4' SHALL BE MAINTAINED UNLESS OTHERWISE NOTED.

20. A MINIMUM 10ft 6inch HORIZONTAL SEPARATION MUST BE MAINTAINED BETWEEN ALL STORM AND SANITARY SEWERS AND WATERLINE,OUT TO OUT.

21. A MINIMUM 18inch VERTICAL SEPARATION MUST BE MAINTAINED BETWEEN ALL STORM AND SANITARY SEWERS AND WATERLINE, OUT TO OUT.

22. DRIVEWAY RESTORATION SHALL BE AS FOLLOWS: CONCRETE DRIVEWAYS WILL BE REPLACED FROM THE NEAREST EXISTING JOINT TO THE STREET, FULL SLAB REPLACEMENT. ASPHALT DRIVEWAYS WILL BE REPLACED FROM THE FARTHEST TRENCH CUT LINE TO THE STREET. REPAIRING ONLY THE TRENCH WIDTH CUT ACROSS A DRIVEWAY ONLY IS NOT ACCEPTABLE.

23. THE CONTRACTOR SHALL VISIT THE SITE TO PERSONALLY ASCERTAIN THE NATURE OF THE WORK INVOLVED AND THOROUGHLY BECOME FAMILIAR WITH THE SITE PRIOR TO THE SUBMISSION OF HIS OR HER BID.

24. THE CONTRACTOR SHALL CAREFULLY LAYOUT THE WATERLINE AND ALL RELATED FACILITIES TO ENSURE THAT THEY ARE LOCATED WITHIN THE PUBLIC RIGHT-OF-WAY AND/OR ACQUIRED EASEMENTS AS INDICATED.

25. THE CONTRACTOR IS RESPONSIBLE FOR RESTORING THE SITE (YARDS, DITCHES, DRIVEWAYS, ETC.) TO ITS ORIGINAL OR BETTER CONDITION UPON COMPLETION OF THE WATERLINE INSTALLATION.

26. THE CONTRACTOR MAY DEFLECT THE WATERLINE AS PER MANUFACTURER'S SPECS WITH PERMISSION FROM AQUA AS NEEDED TO MAINTAIN MINIMUM HORIZONTAL AND VERTICAL SEPARATION DISTANCES.

27. THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORNERS, REFERENCE POINTS, AND STAKES. ANY BENCHMARK, PROPERTY CORNER, OR SURVEY MARKER DAMAGED OR DISTURBED BY THE CONTRACTOR SHALL BE RESET BY AN OHIO REGISTERED PROFESSIONAL SURVEYOR AT THE CONTRACTORS EXPENSE.

28. ALL MAIL BOXES, TRAFFIC CONTROL SIGNS AND ADVERTISING SIGNS ENCOUNTERED DURING CONSTRUCTION SHALL BE REPLACED IMMEDIATELY AFTER THE WATER MAIN HAS BEEN INSTALLED AND BACKFILLED. TEMPORARY SIGNS TO BE USED AS NEEDED.

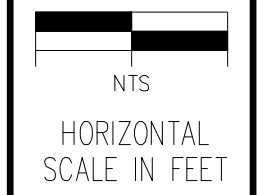
29. WATER SERVICE LINE CONNECTIONS ARE NOT TO BE INSTALLED UNTIL PRESSURE TEST AND BACTERIA TESTS HAVE BEEN APPROVED.

30. THE NORMAL WORKING PRESSURE IN WATER LINES SHALL NOT BE LESS THAN 35 PSI.

NOTE: THIS LIST DOES NOT SUPERCEDE CONTRACT SPECIFICATIONS AND IS INTENDED ONLY AS A GUIDELINE TO INSTALLING WATERLINES WITHIN THE AQUA OHIO SERVICES AREA. ANY QUESTIONS SPECIFIC TO YOUR PROJECT, SHOULD BE DISCUSSED WITH THE ONSITE INSPECTOR.

1. SET ALL CURB STOPS 2 FEET BEHIND THE SIDEWALK. TAILS MAY BE INSTALLED IF DESIRED.

2. DUE TO HIGH WATER PRESSURE, A PRESSURE REDUCING VALVE IS NECESSARY IN EACH HOUSE AFTER THE METER. COST TO BE INCLUDED WITH THE PLUMBING FOR THE HOUSE.



REVISIONS:	
DATE	DESCRIPTION

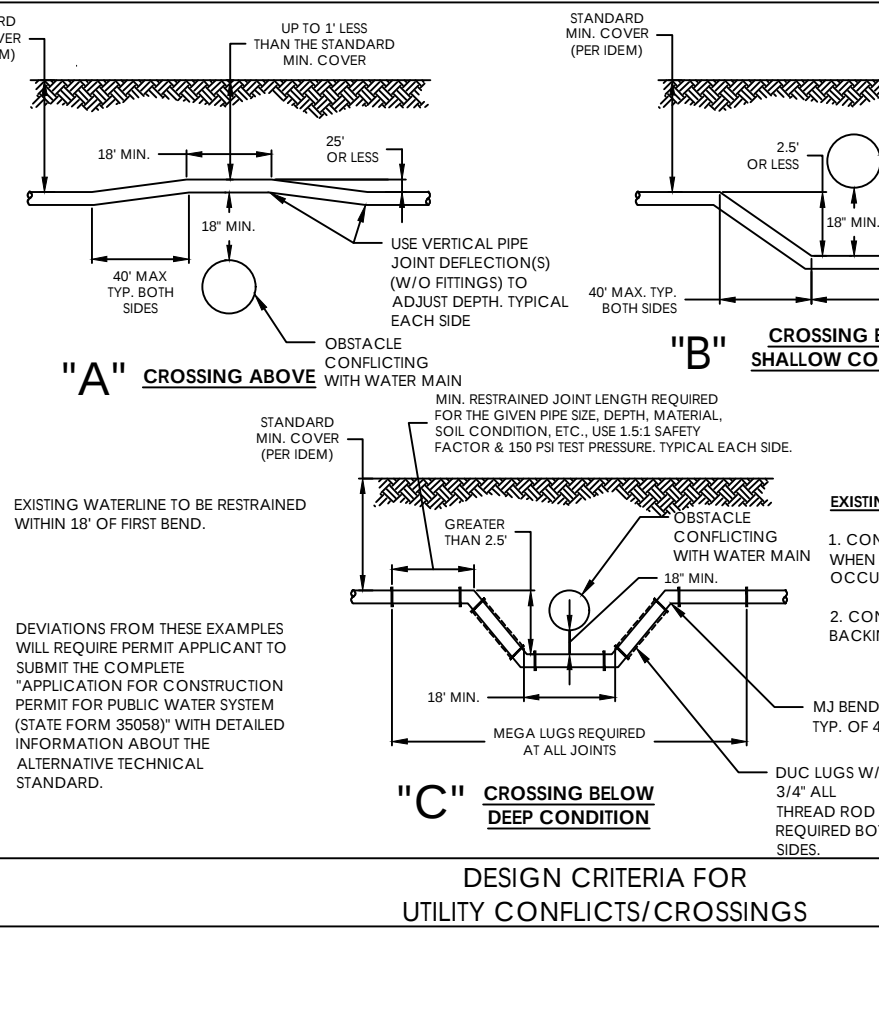
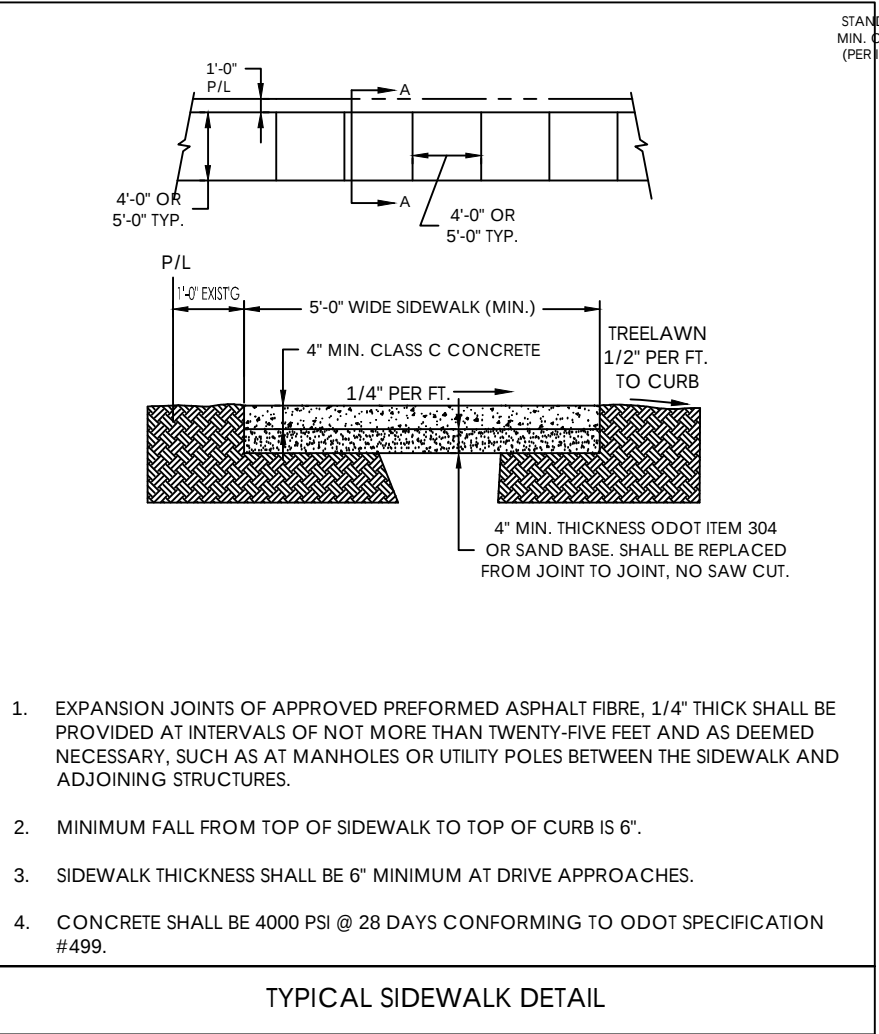
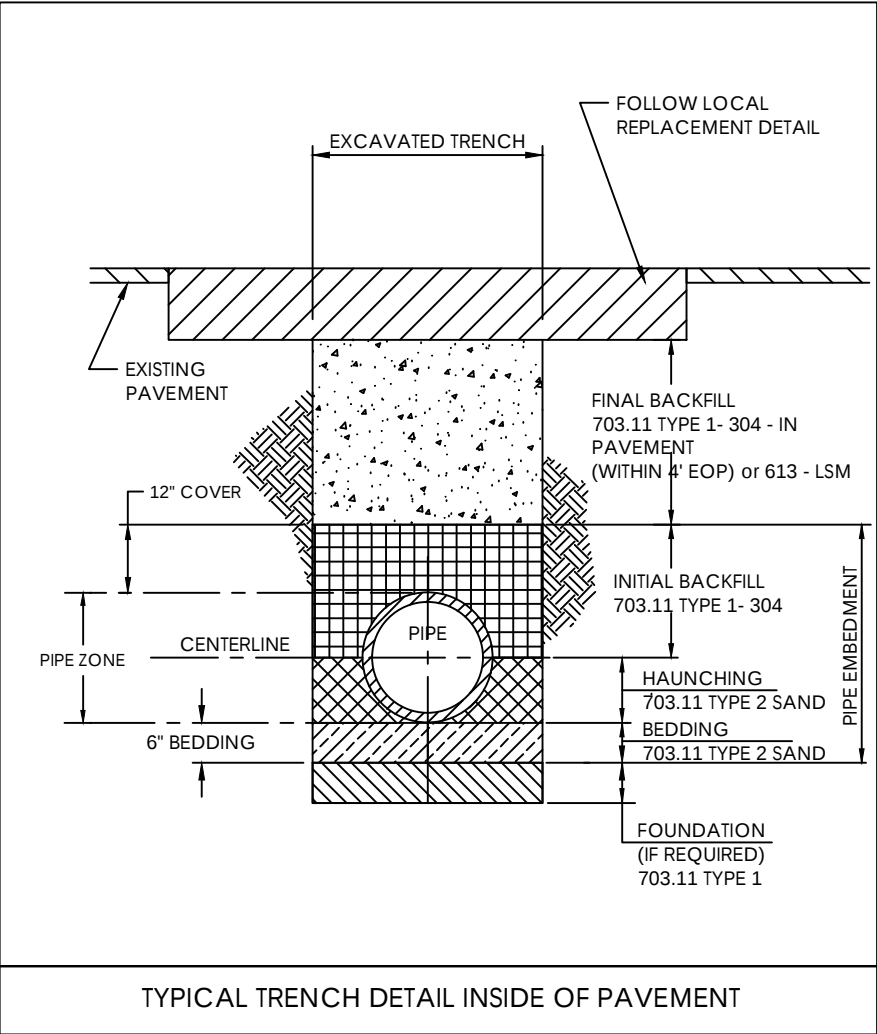
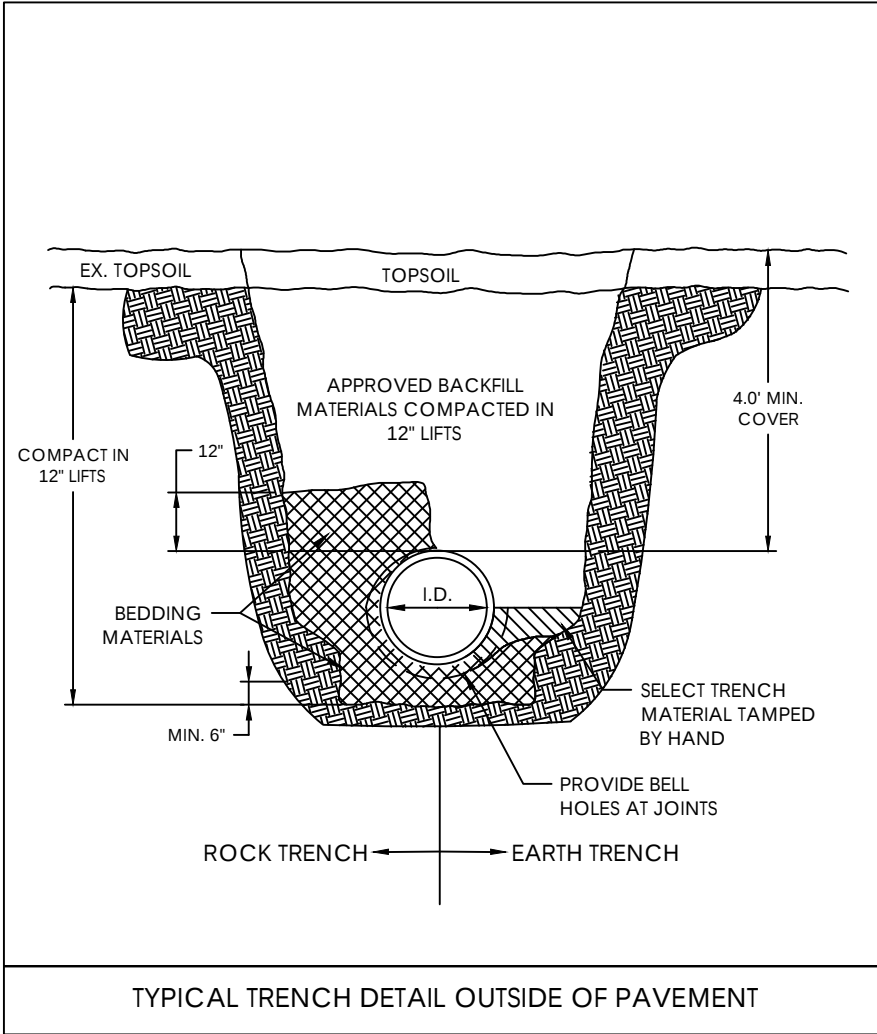
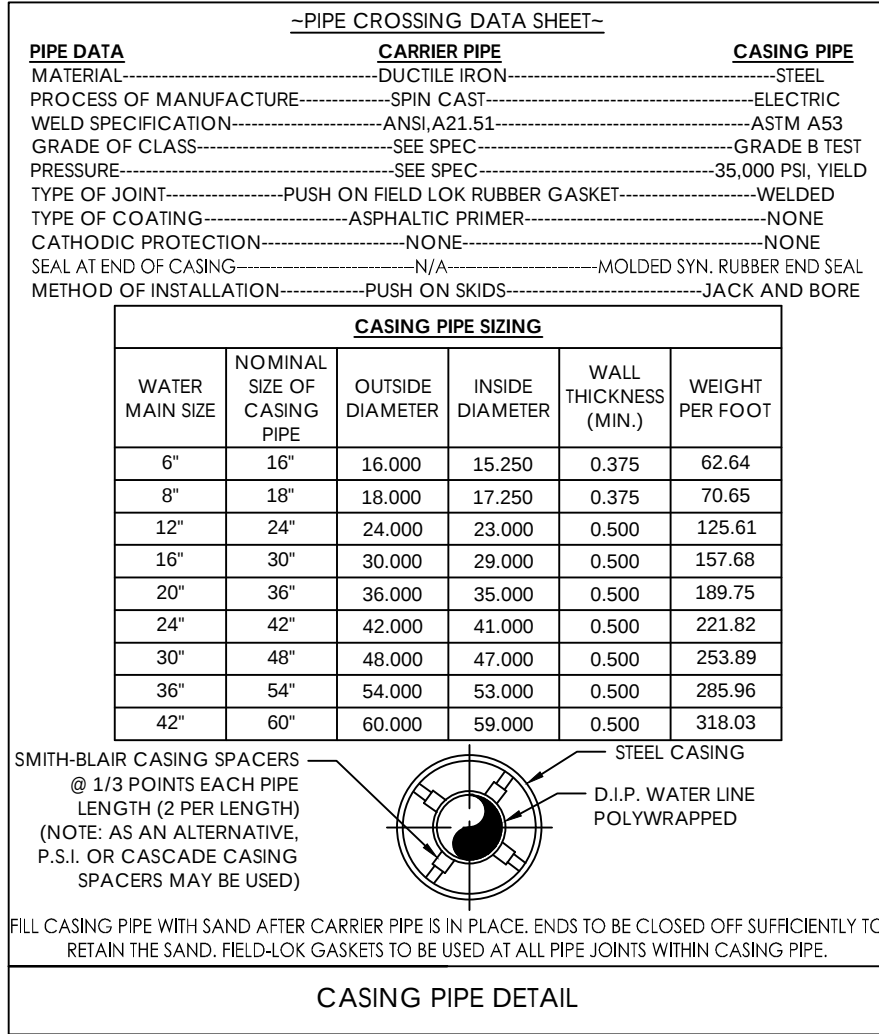
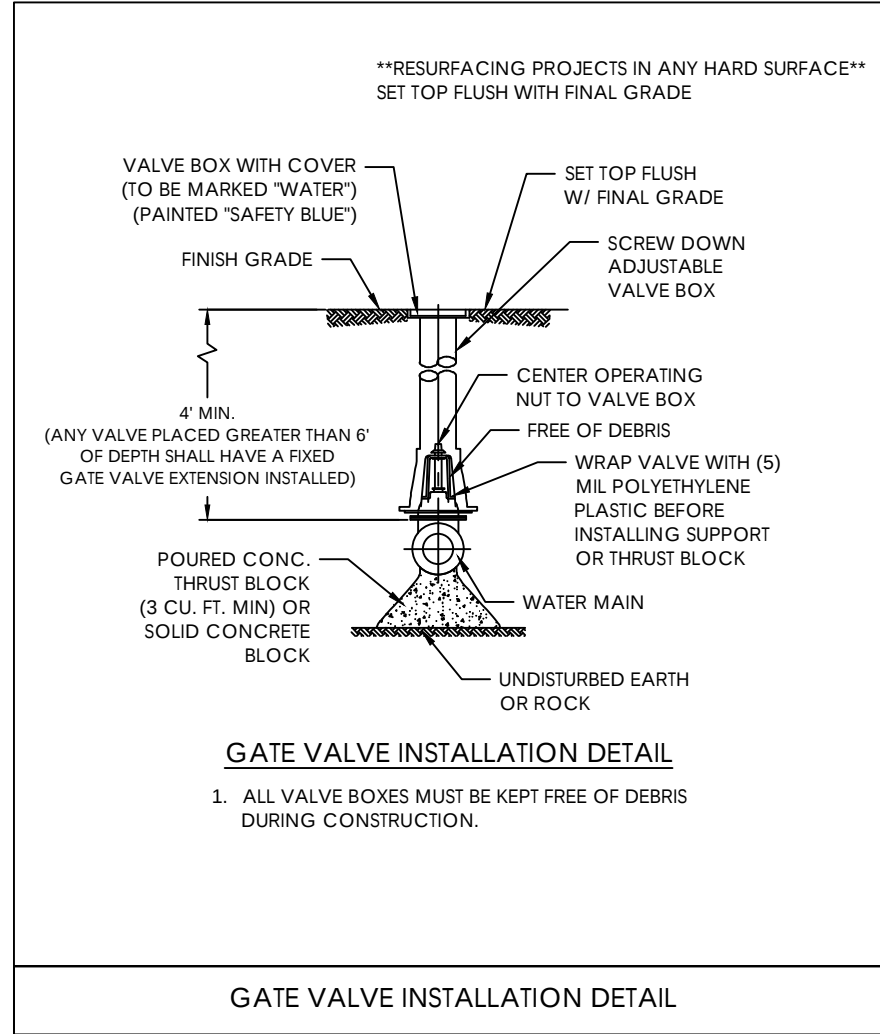
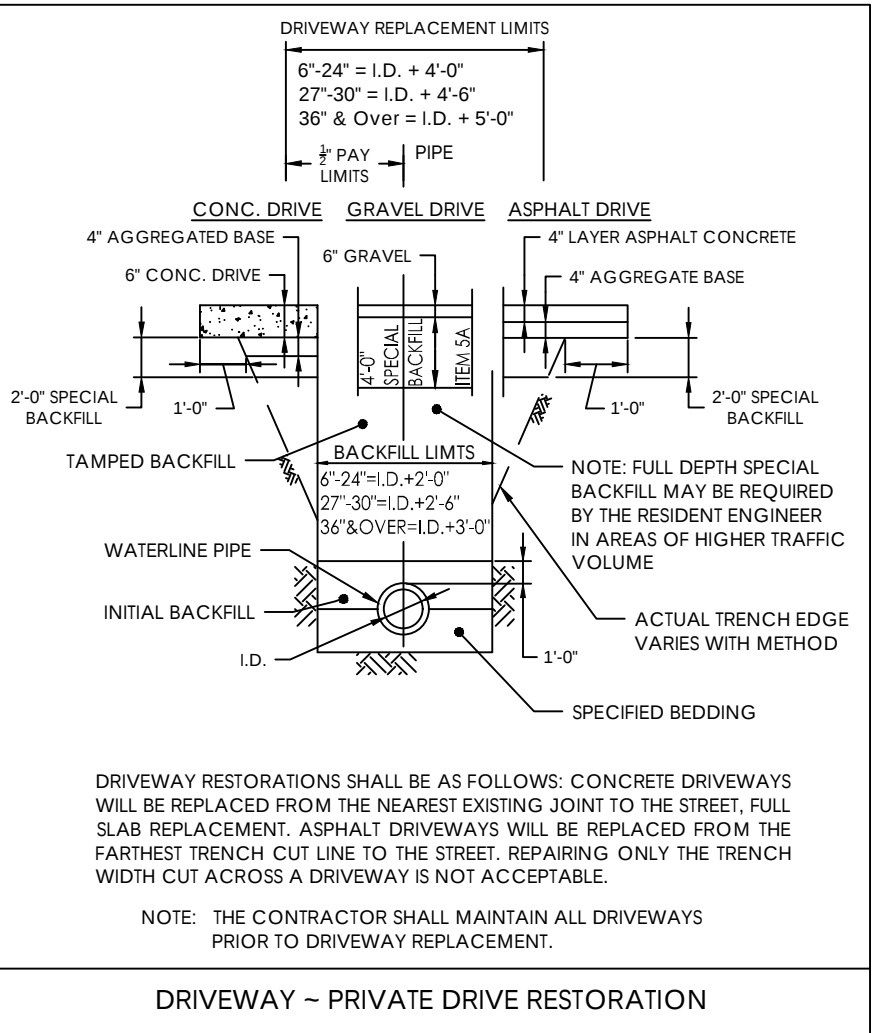
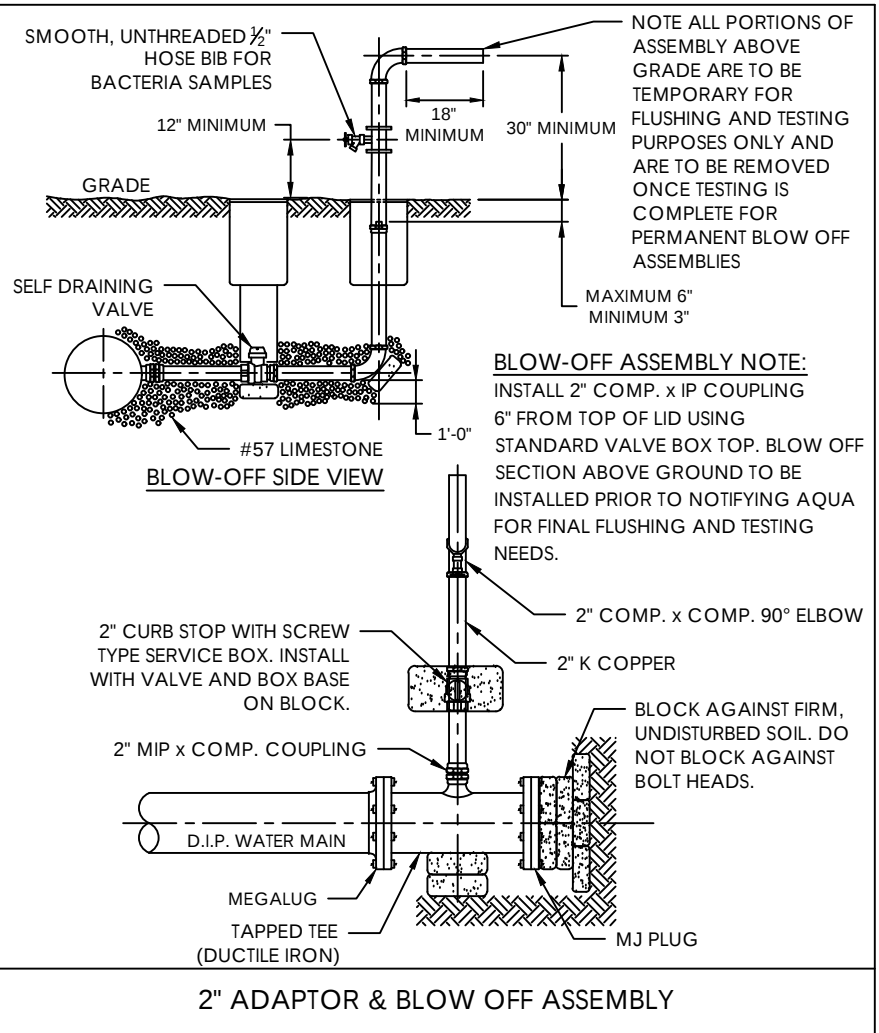
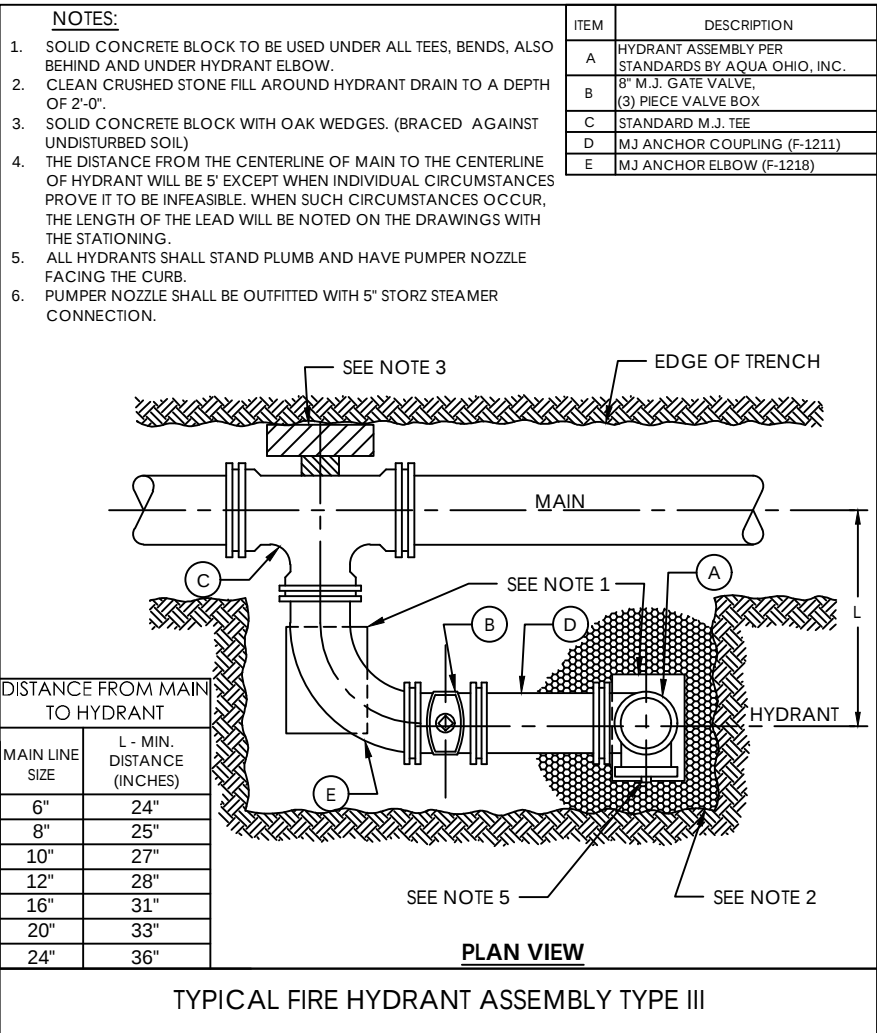
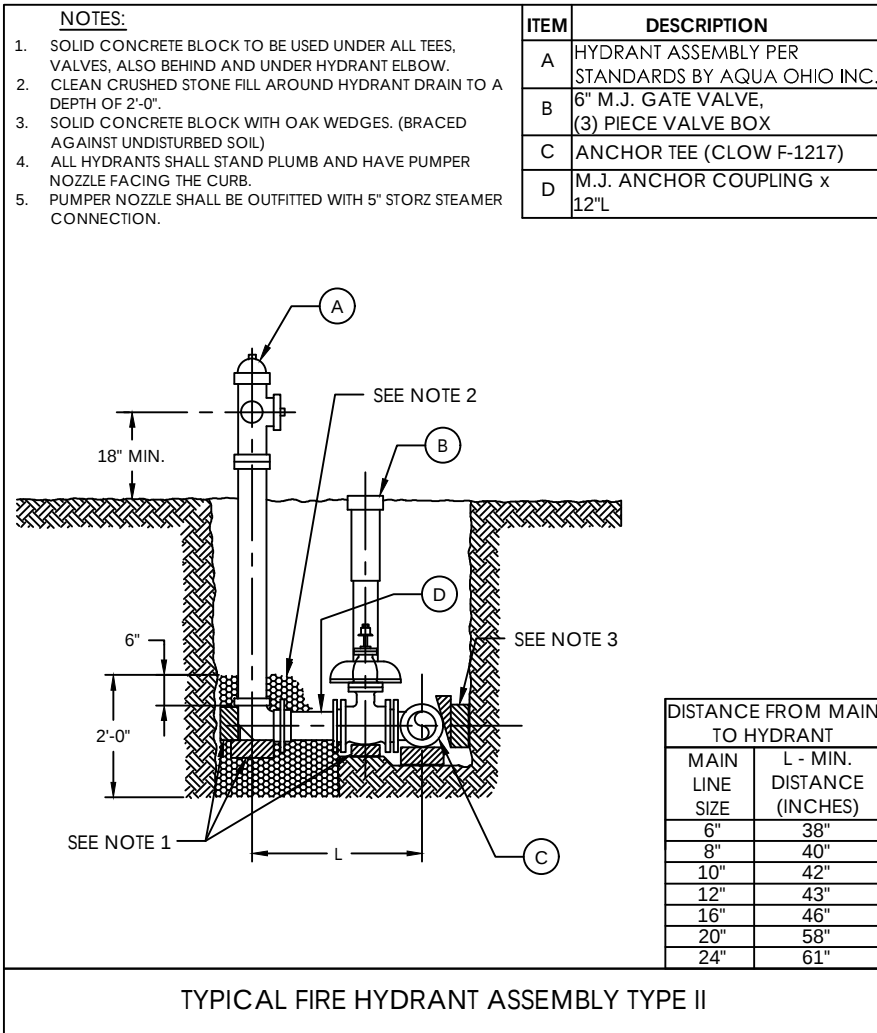
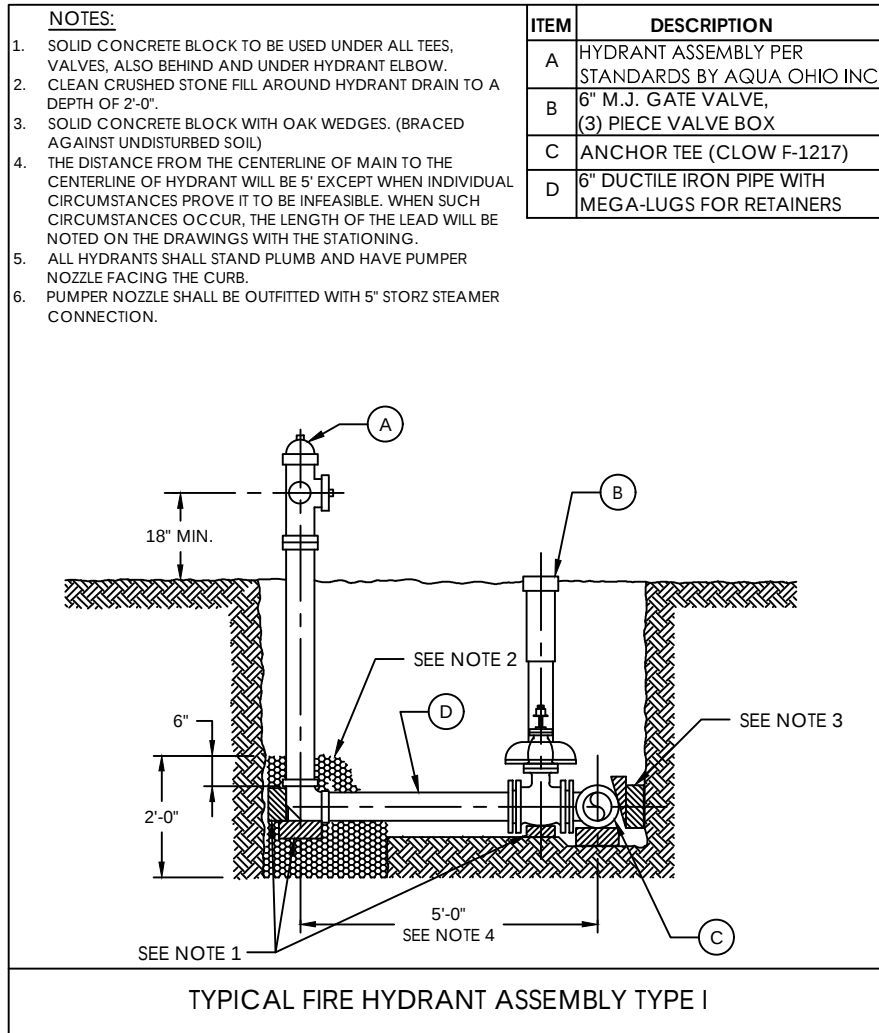
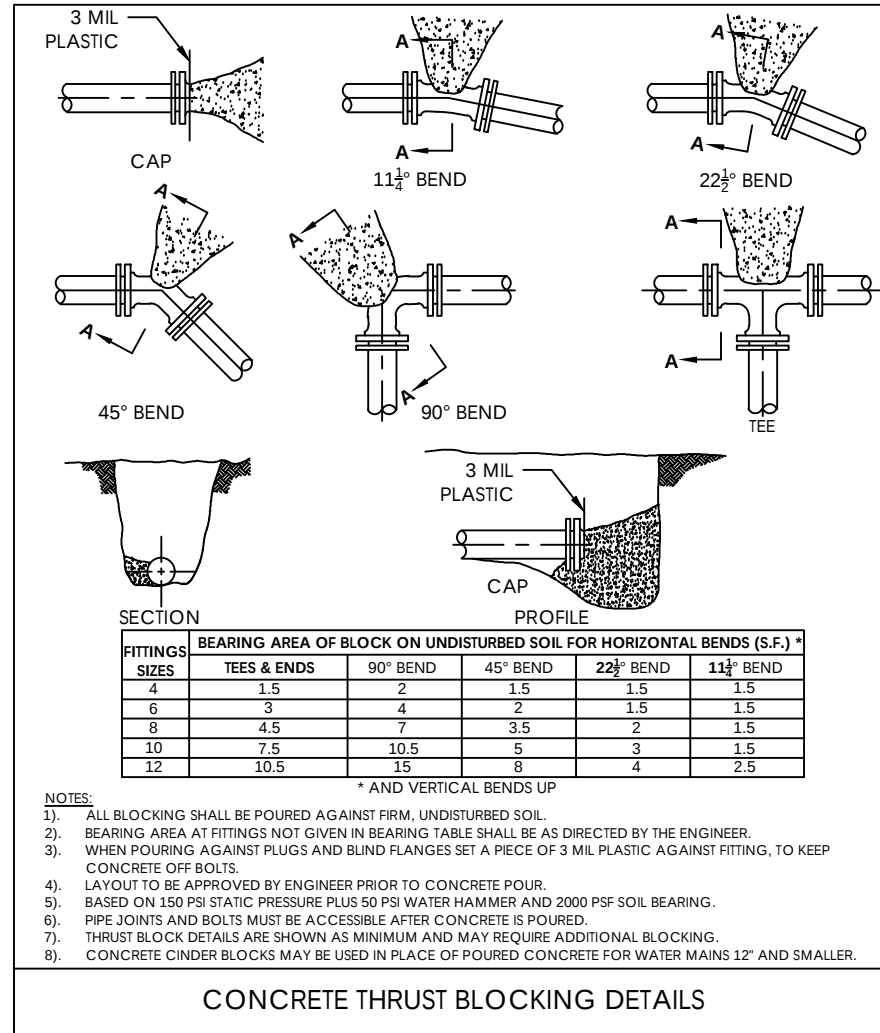
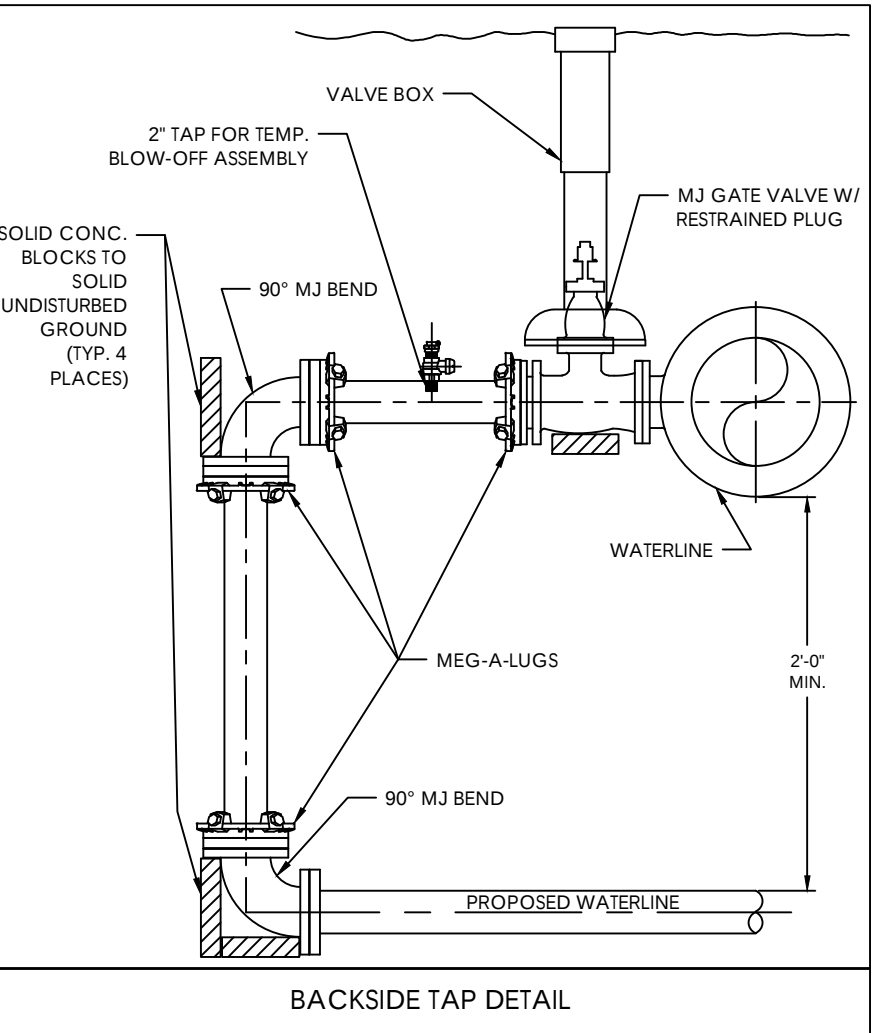
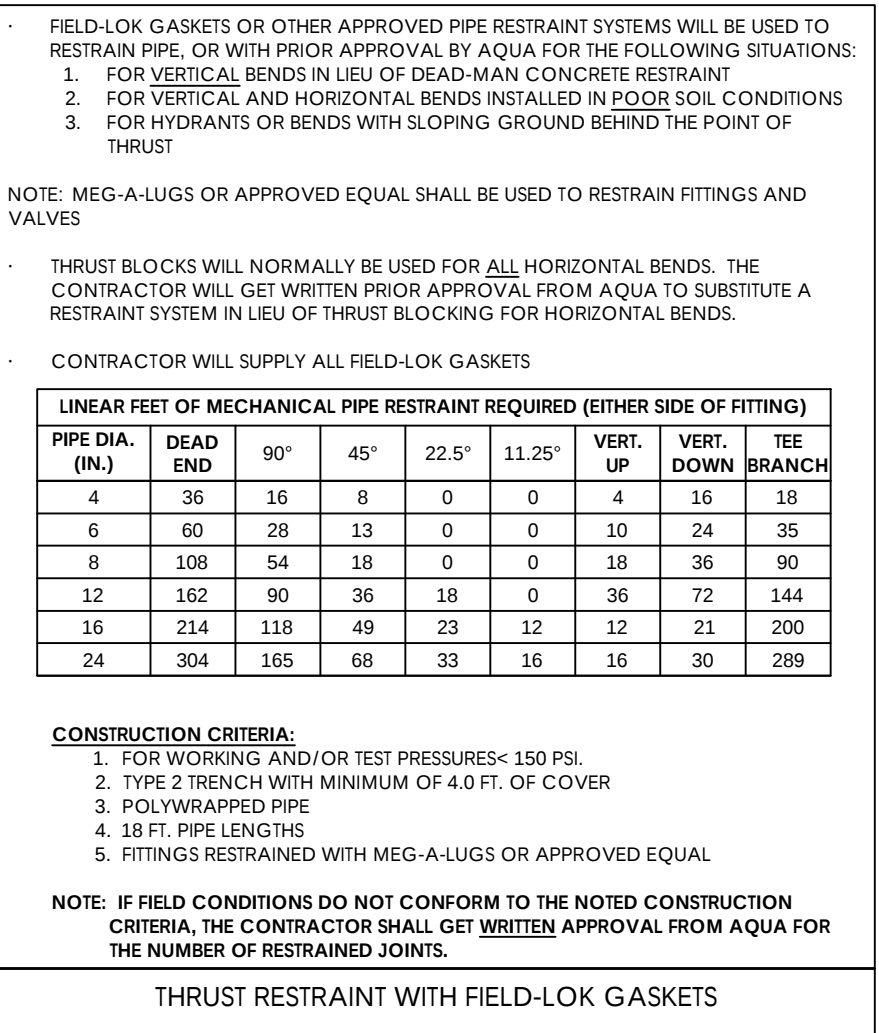
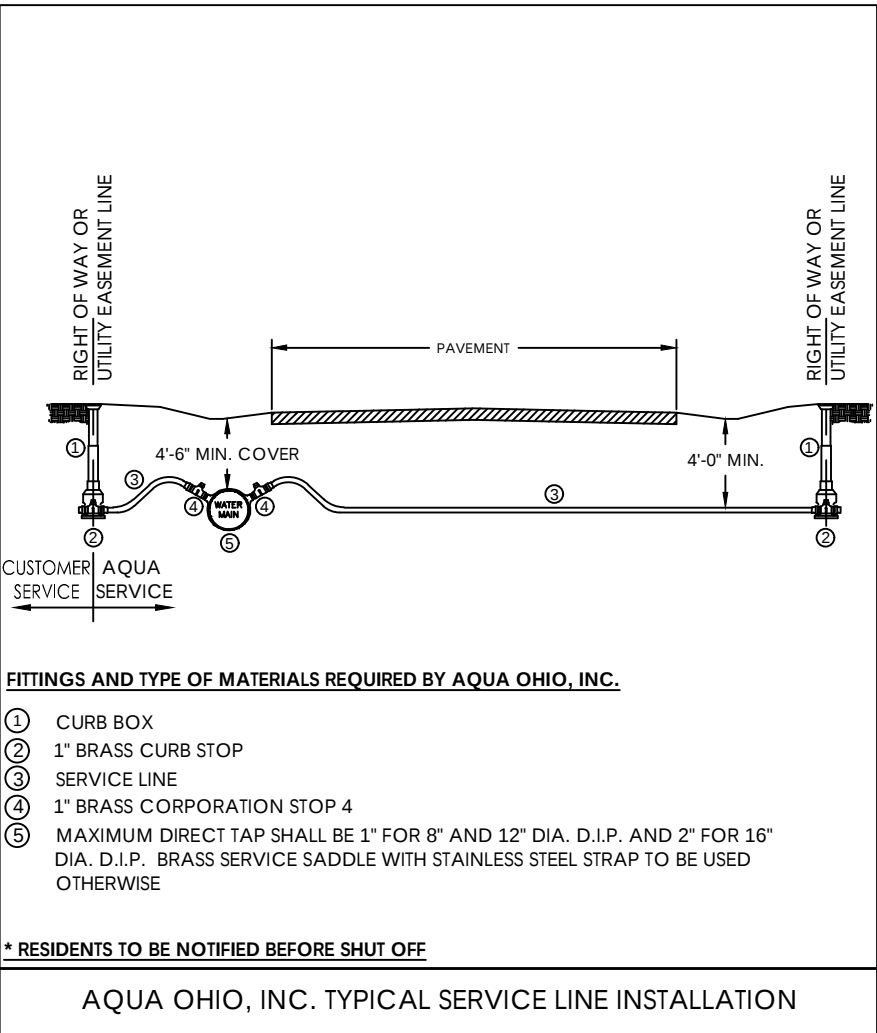
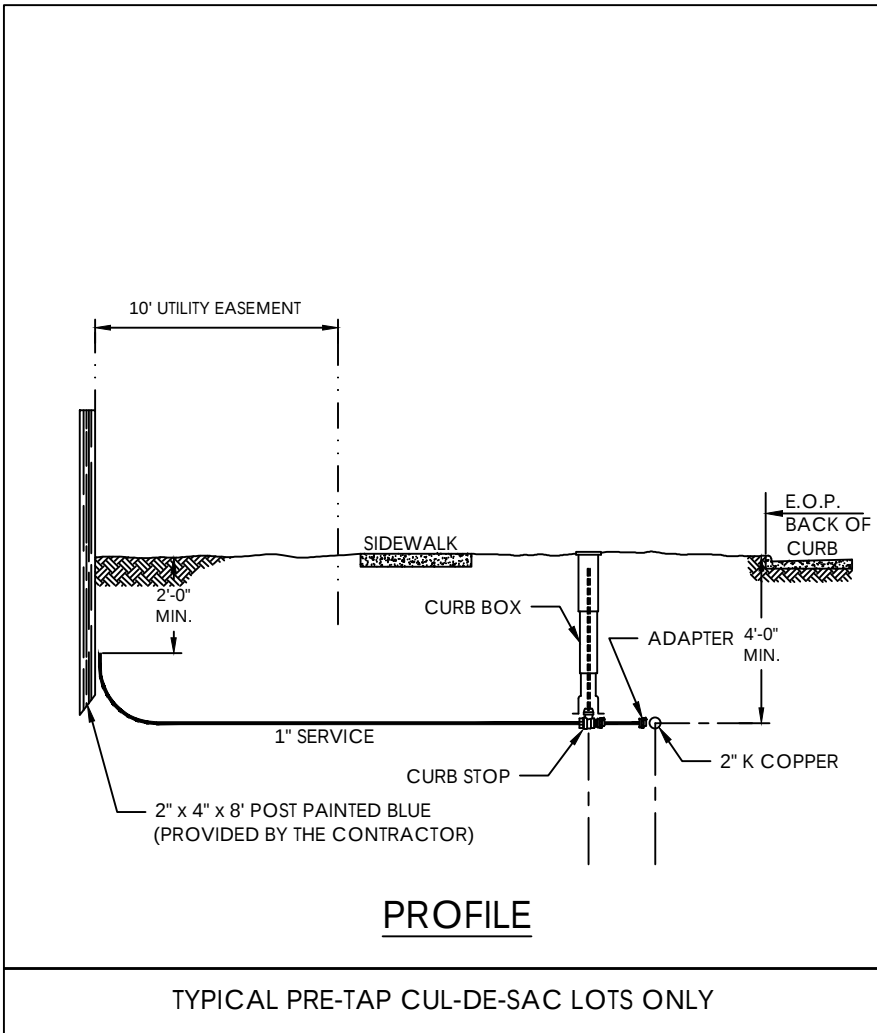
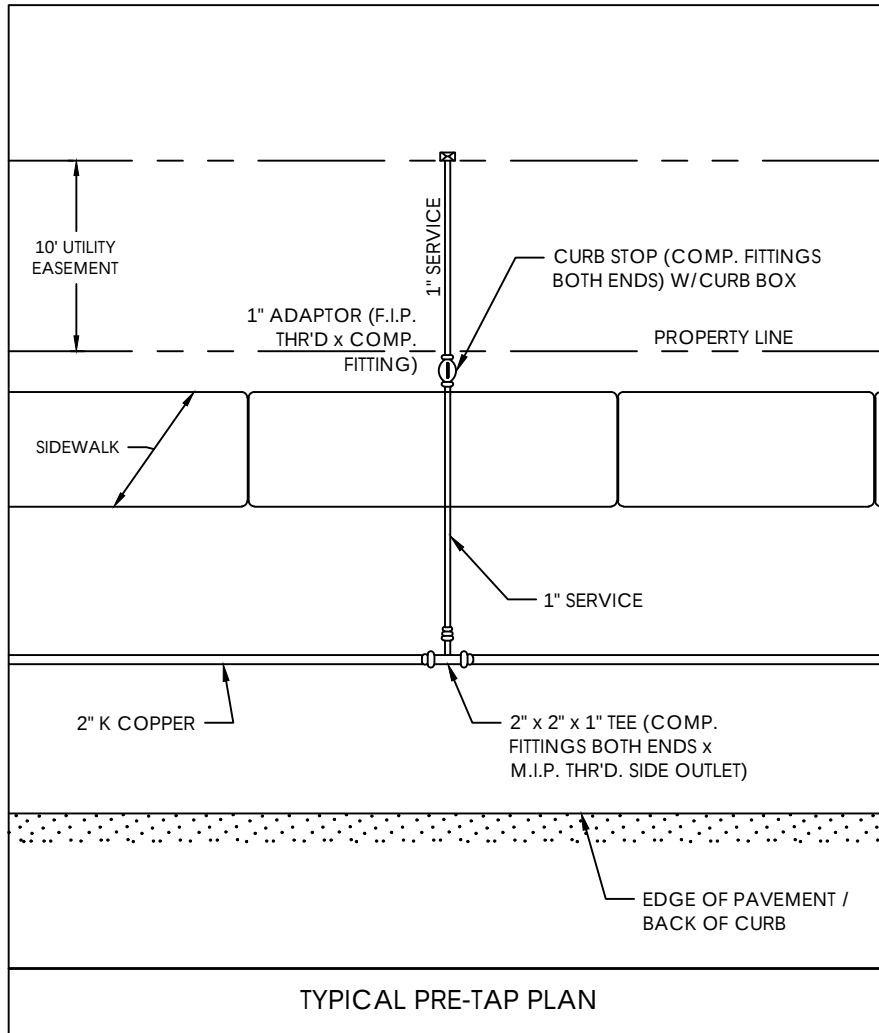
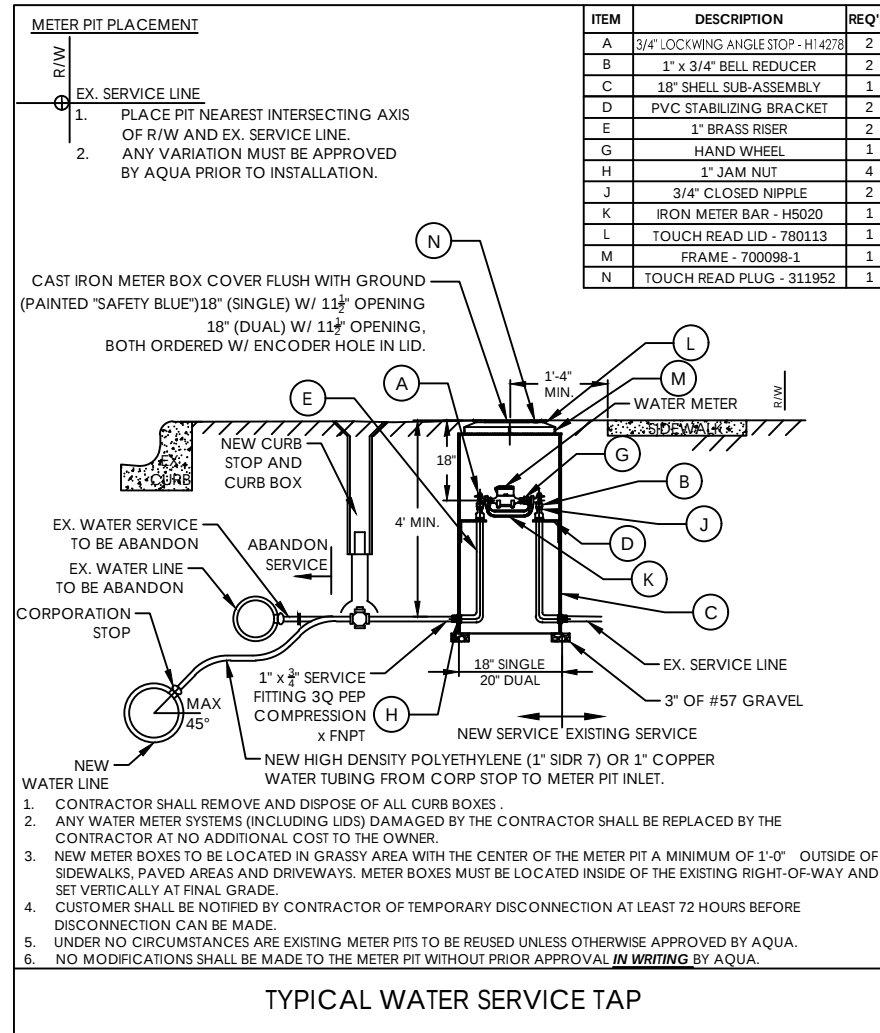
Sippo Reserves Allotment Phases 3 & 4
Waterline Details
City of Massillon
Stark County, Ohio

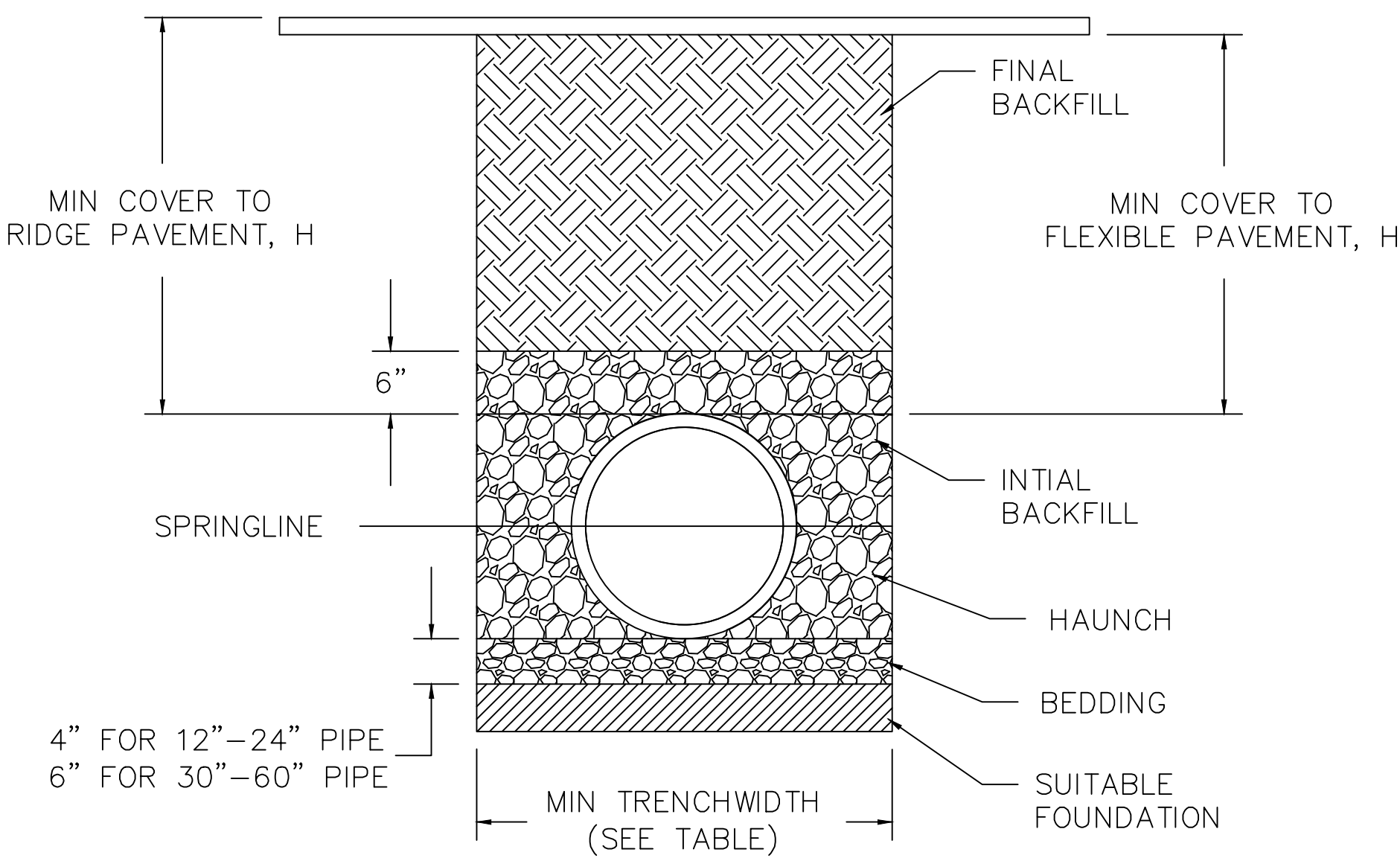
CIVPRO
ENGINEERING

ENGINEERS—SURVEYORS—CONSTRUCTION MANAGERS
44450 BELDEN VILLAGE STREET NW SUITE 800 CANTON, OH 44718
PHONE: (330) 268-3734 EMAIL: KAD@CIVPROENGINEERING.COM
WWW.CIVPROENGINEERING.COM

DRAWING NAME:
Water Details1

REF NUMBER:





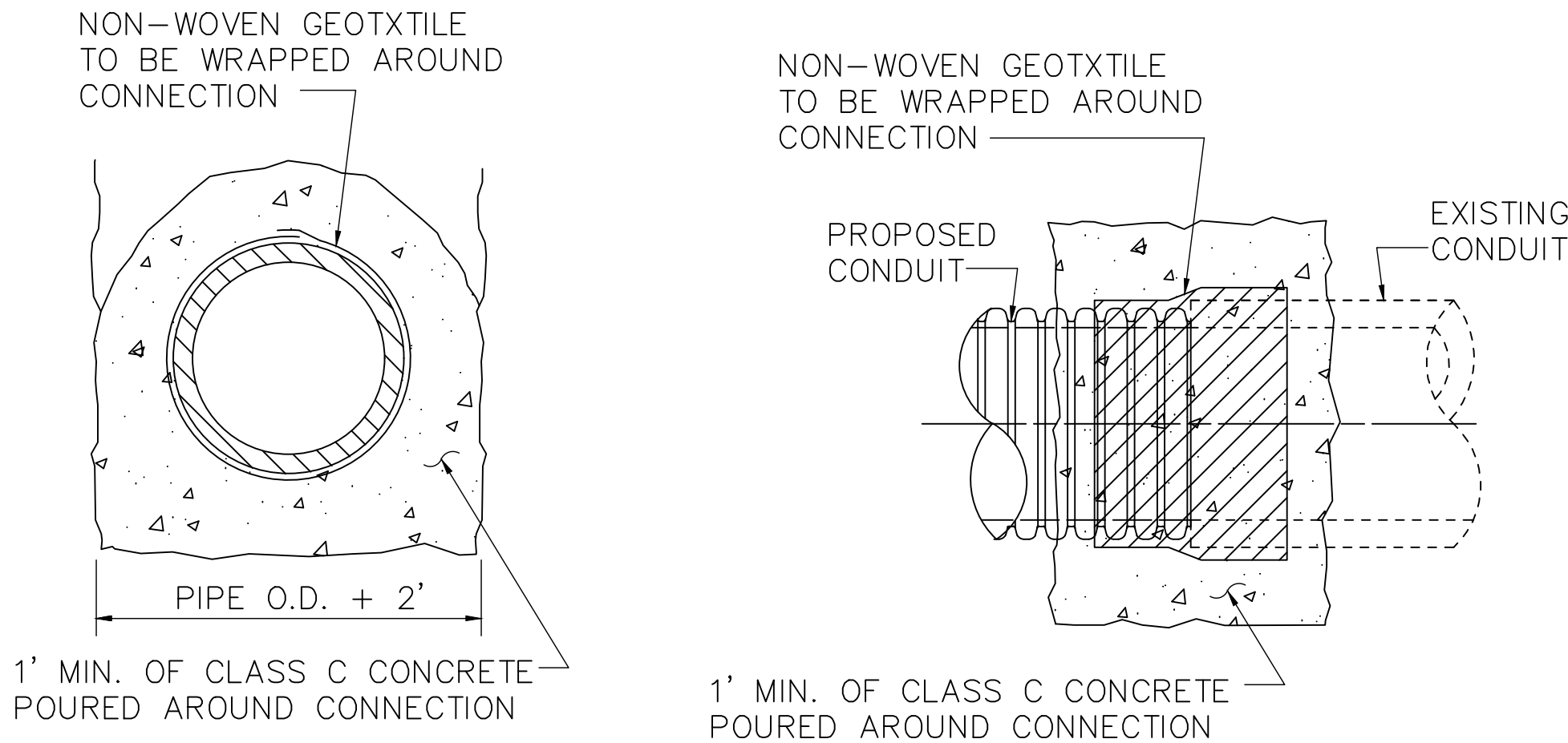
RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
4"	21'
6"	23'
8"	26'
10"	28'
12"	30'
15"	34'
18"	39'
24"	48'
30"	56'
36"	64'
42"	72'
48"	80'
54"	88'
60"	96'

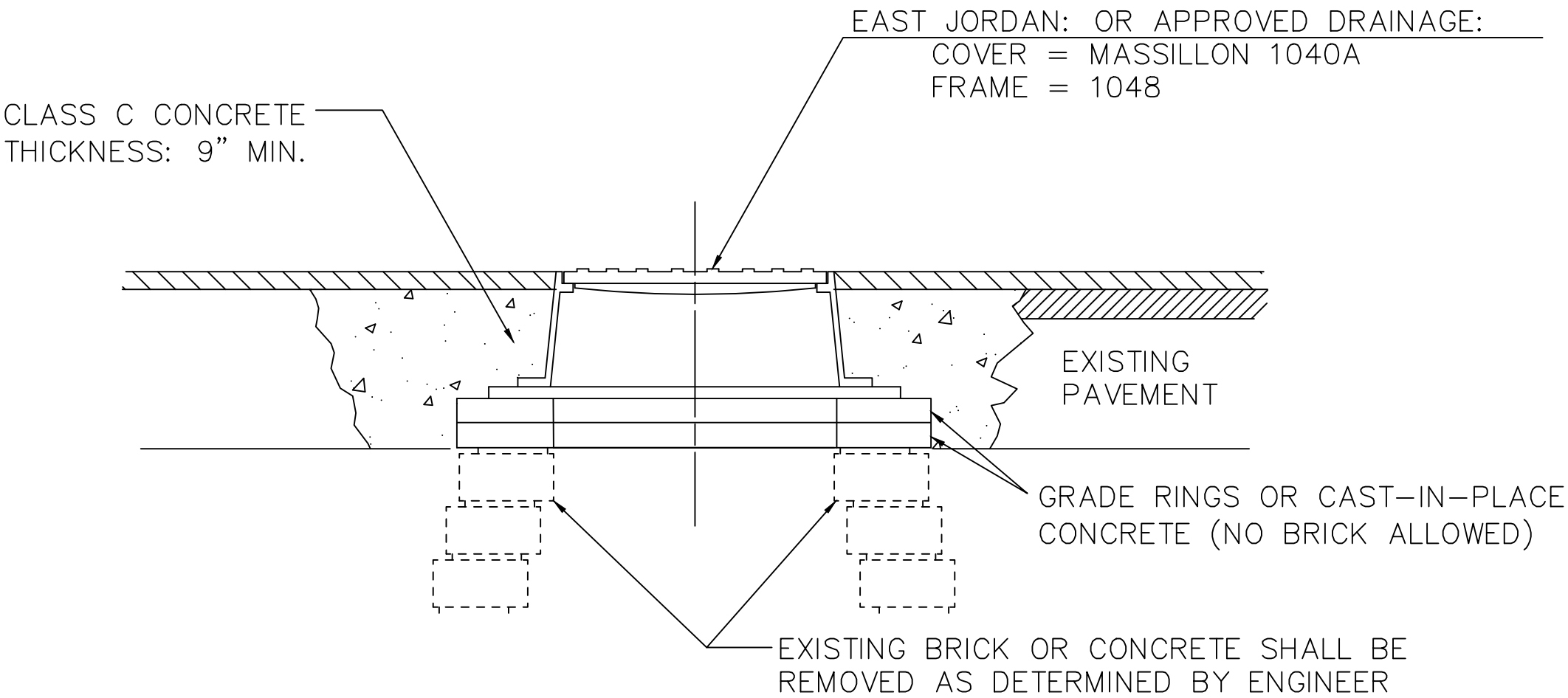
NOTES:

- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE APPLICATION", LATEST ADDITION
- MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
- FOUNDATION:** WHERE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
- BEDDING:** SUITABLE MATERIAL SHALL BE CLASS I, II OR III, PER MANUFACTURERS AND ODOT ITEM 611 REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" FOR 4"-24"; 6" FOR 30"-60".
- INITIAL BACKFILL:** SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
- MINIMUM COVER:** MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO THE GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54" TO 60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIDGE PAVEMENT.

TRENCHING DETAIL FOR PIPE



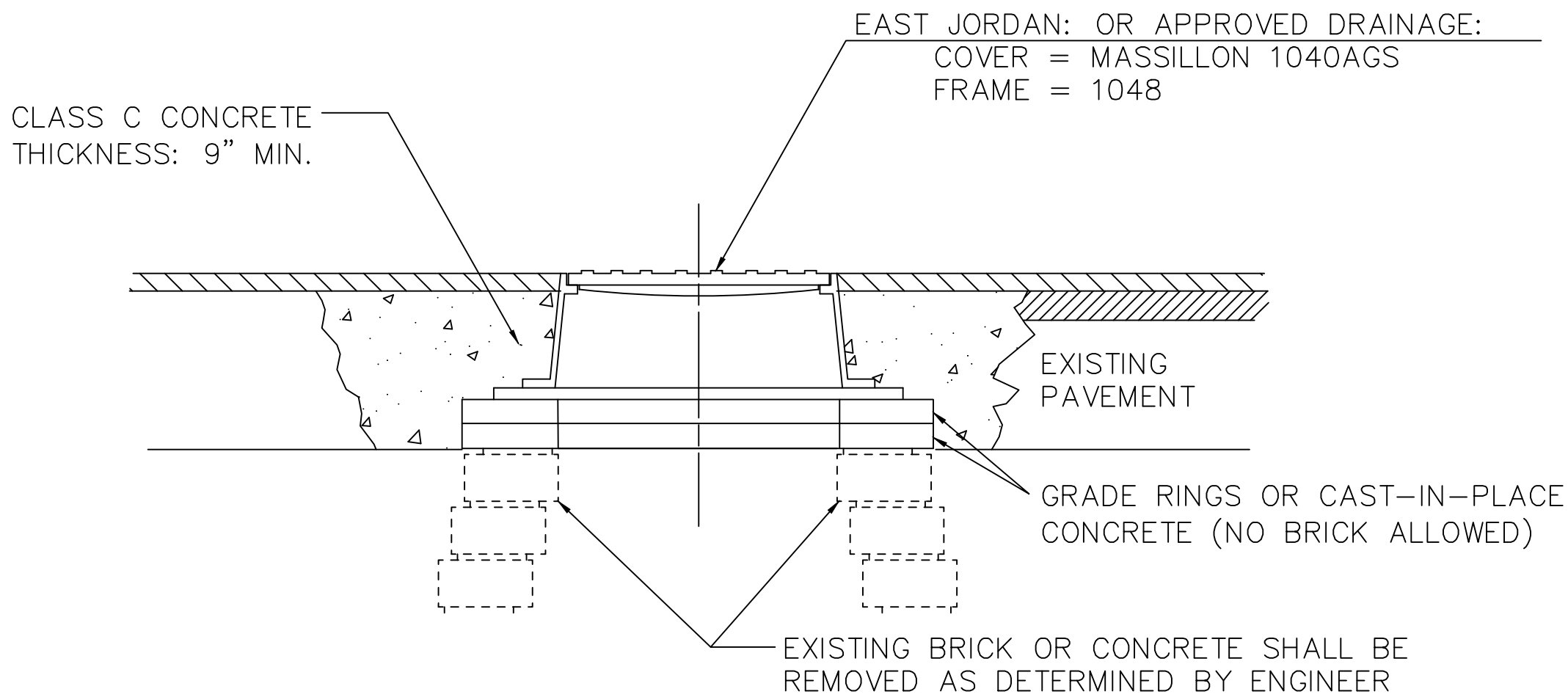
CONCRETE COLLAR



NOTES:

- ALL CASTINGS, LIDS AND GRATES ARE TO BE CAREFULLY REMOVED AND STORED BY THE CONTRACTOR FOR SALVAGE BY THE CITY OF MASSILLON.
- WORK SHALL INCLUDED ALL REMOVAL AND DISPOSAL OF EXISTING.

ITEM 604 DRAINAGE MANHOLE MASS1048-R



NOTES:

- ALL CASTINGS, LIDS AND GRATES ARE TO BE CAREFULLY REMOVED AND STORED BY THE CONTRACTOR FOR SALVAGE BY THE CITY OF MASSILLON.
- WORK SHALL INCLUDED ALL REMOVAL AND DISPOSAL OF EXISTING.

ITEM 604 SANITARY MANHOLE MASS1048-R

NWNE

SWSE

N

V

N

NTS

NTS

HORIZONTAL

SCALE IN FEET

CHECKED BY:

KAD

DATE:

FEB. 2023

DRAWN BY:

JTD

DATE:

FEB. 2023

REVISIONS:

DATE

DESCRIPTION

Sippo Reserves Allotment Phases 3 & 4

Miscellaneous Details

City of Massillon

Stark County, Ohio

CIVPRO

ENGINEERING

ENGINEERS-SURVEYORS-CONSTRUCTION MANAGERS

4450 BELDEN VILLAGE STREET NW, SUITE 800 CANTON, OH 44718

PHONE: (330) 268-3734 EMAIL: KAD@CIVPROENGINEERING.COM

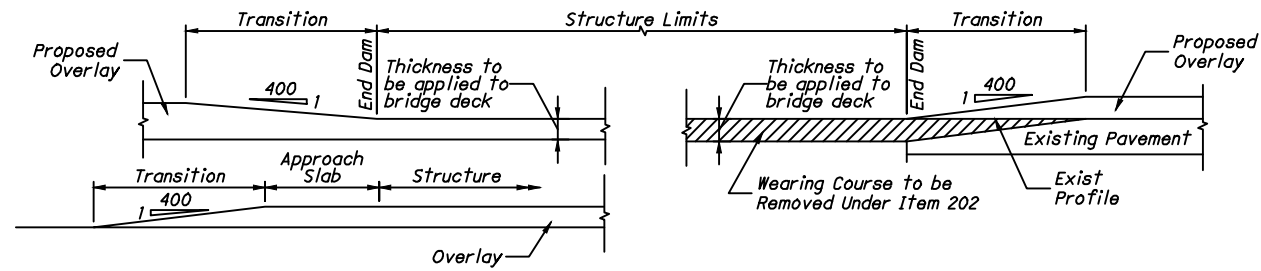
WWW.CIVPROENGINEERING.COM

DRAWING NAME:

MiscDetails

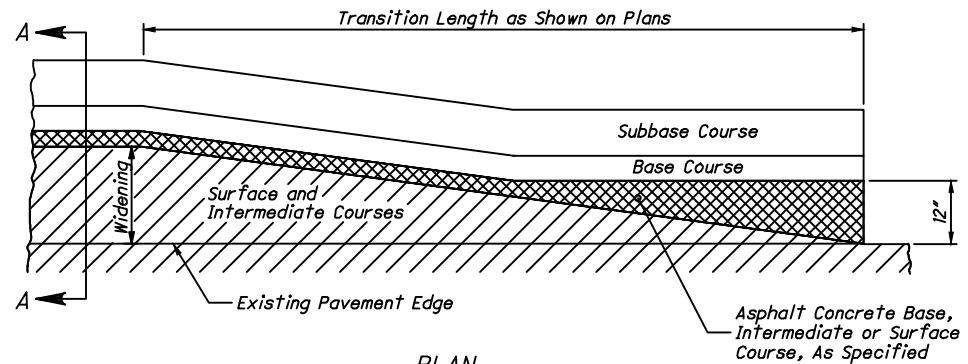
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31 / 39

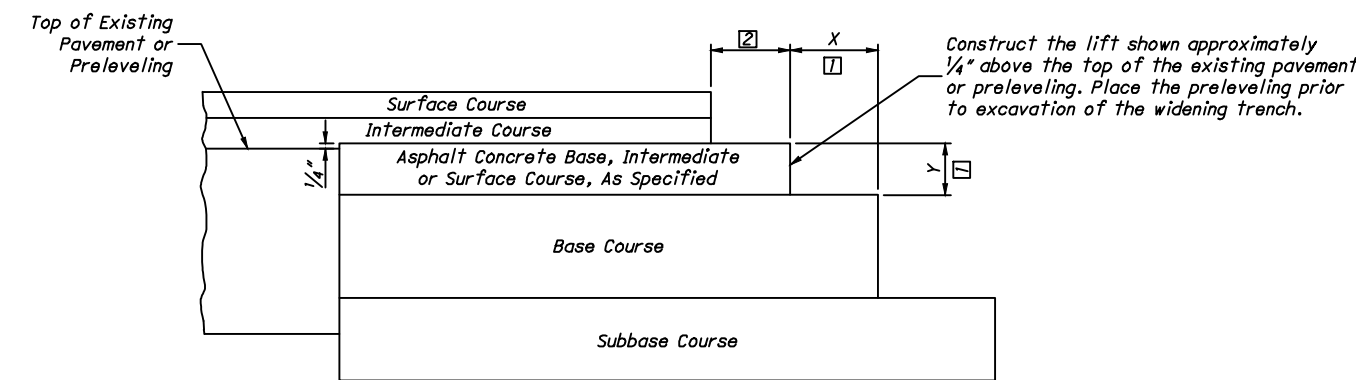


Details assume non-settled approach slabs. Smoothing of the profile for settlement is required per plan grades or as directed by the Engineer.

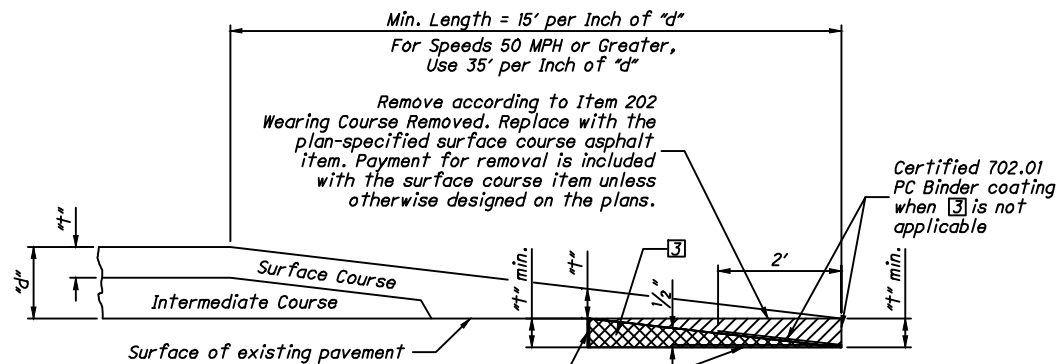
TRANSITIONING AT STRUCTURES



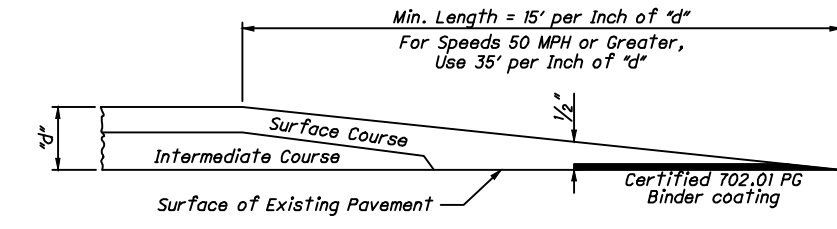
MERGING EDGE OF PAVEMENT WIDENING WITH EDGE OF EXISTING PAVEMENT



SECTION A-A COURSE DETAIL FOR WIDENING



Butt Joint



Taper End

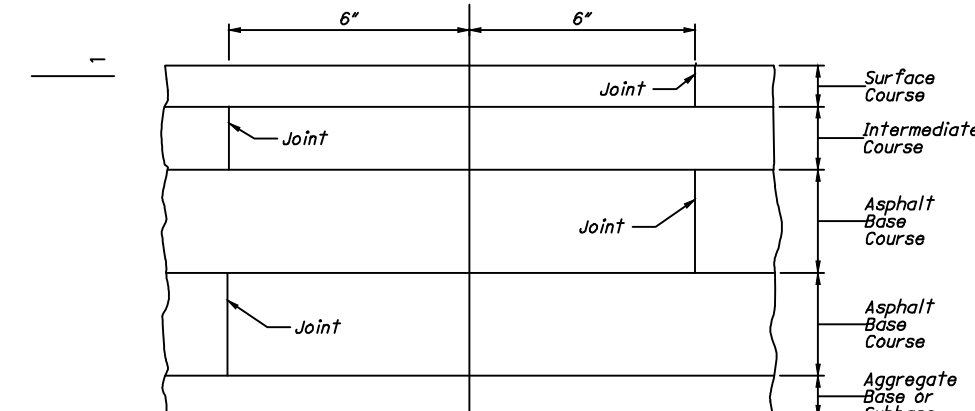
NOTE: Butt joint is required unless the taper and is specified in the plans or approved by the Engineer.

BUTT JOINTS AND TAPER ENDS

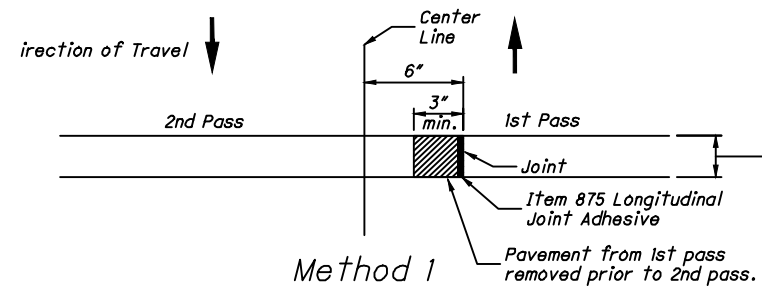
Values for "t" and "d" are obtained from the plans.

LEGEND

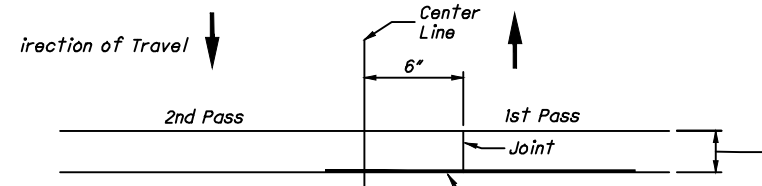
- 1. The extended width of a base or subbase lift shall be equal to the depth (t) of the overlying lift or d, whichever is greater, or as shown on the plans.
- 2. The extended width shall be equal to the combined thickness of the surface and intermediate courses, or 4', whichever is greater.
- 3. Permissible removal and replacement



LAPPING LONGITUDINAL JOINTS (see notes)

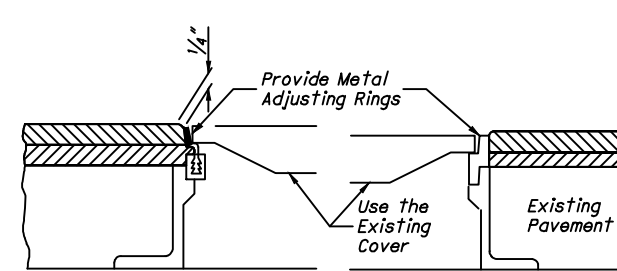


Method 1

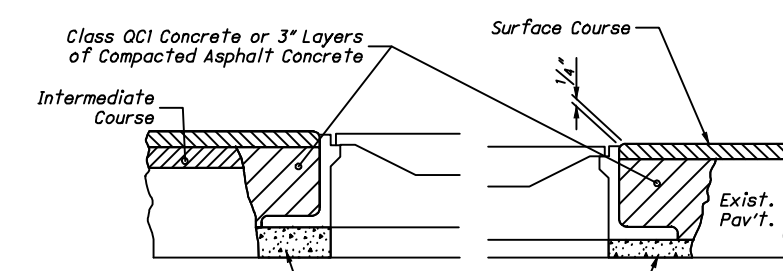


Method 2

LONGITUDINAL JOINT PREPARATION (if specified)

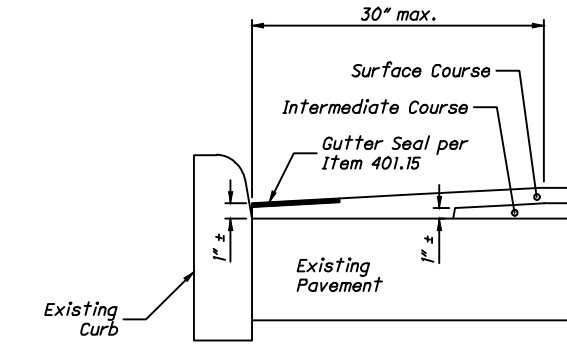


Using Metal Adjusting Rings

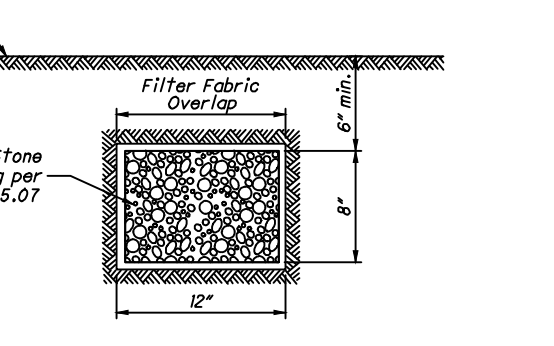


Using Concrete or Mortar

MANHOLES ADJUSTED TO GRADE



GUTTER FINISH



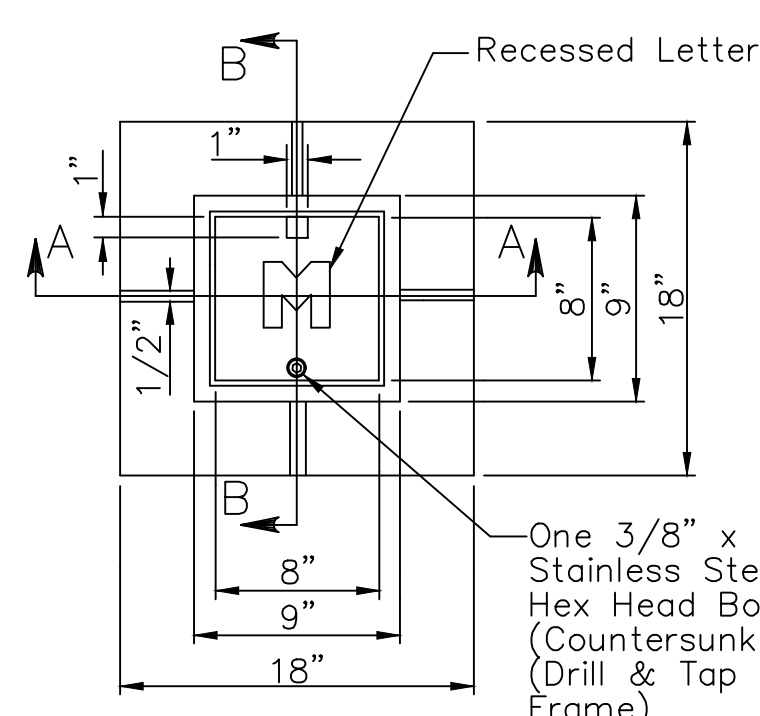
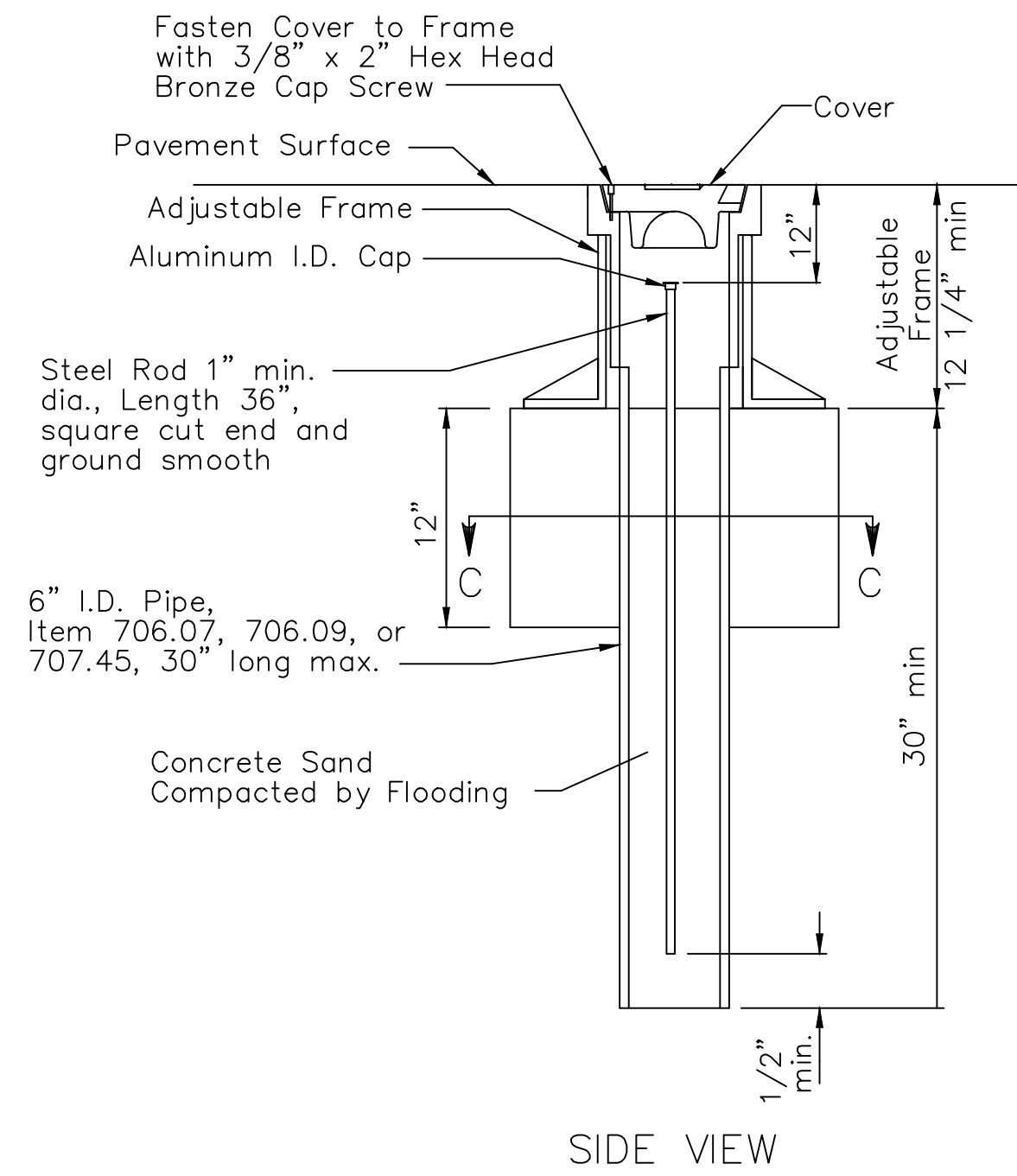
AGGREGATE DRAIN

NOTES

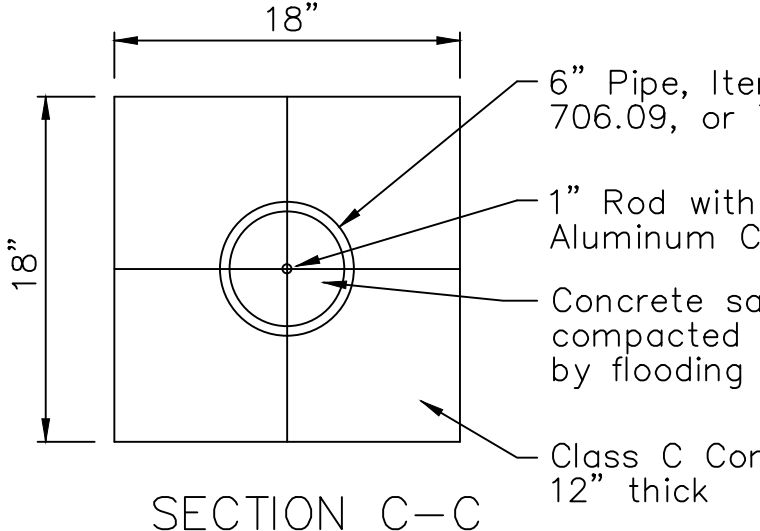
GENERAL: Lap all longitudinal joints as shown regardless of the number of courses being placed. Do not construct a longitudinal joint directly above and in line with the longitudinal joint of previously placed material.

METAL ADJUSTING RINGS: Metal adjusting rings shall: (a) Attach securely to the existing frame by welding or mechanical devices (b) Consist either of cast metal having an integral rim and seat, or be fabricated metal with a sturdy connection between the seat and rim and (c) Provide an even seat for the manhole cover. In addition, the adjusting ring type shall be a design acceptable to the local governmental agency responsible for street and sewer maintenance. Any installation unacceptable to the Engineer shall be replaced by the Contractor at his expense.

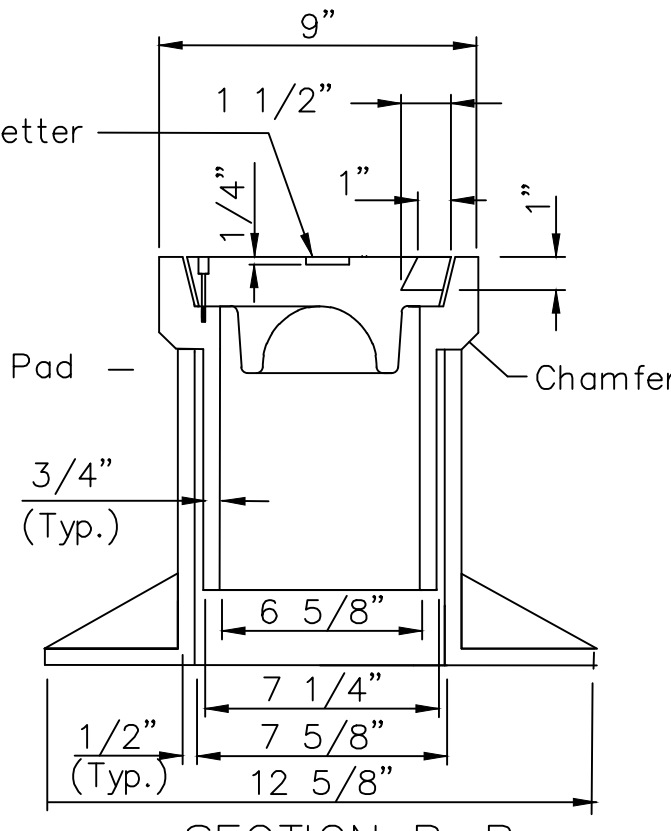
PAYMENT: The Department will pay for manholes adjusted to grade using Item 611 Manhole, Catch Basin, or Inlet Adjusted to Grade. The Department will pay for longitudinal joint preparation using Item 814 Longitudinal Joint Preparation.



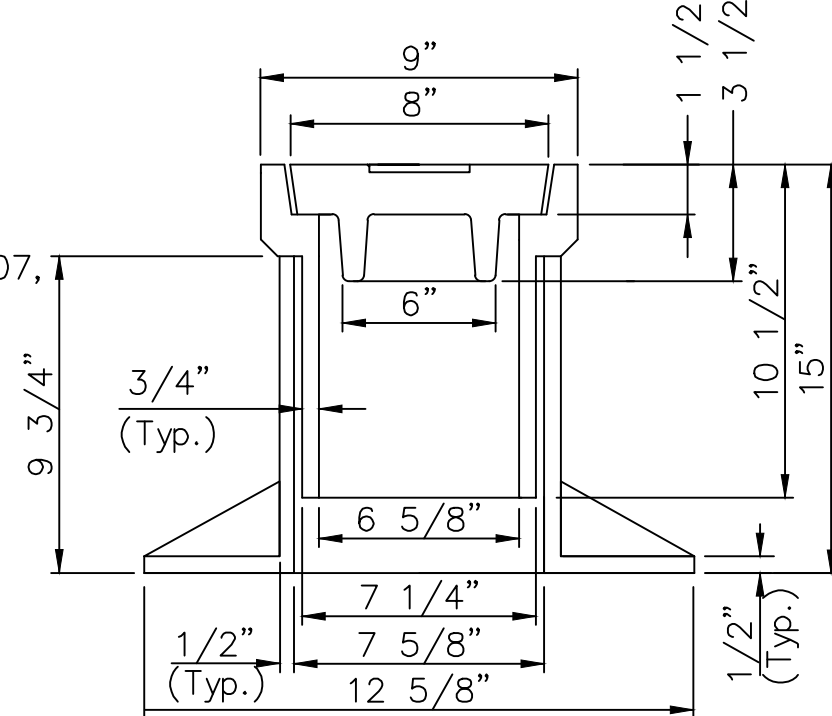
TOP VIEW



SECTION C-C



SECTION B-B



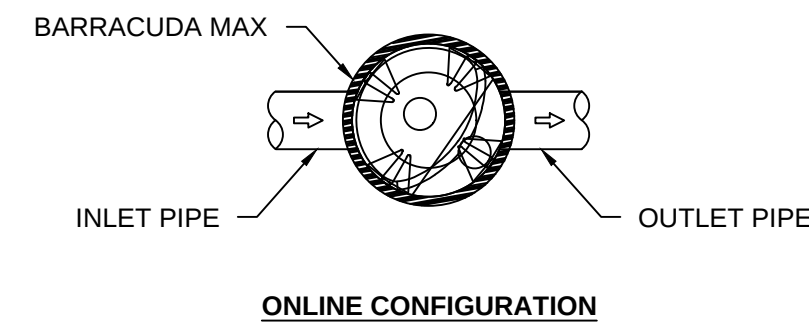
SECTION A-A

CENTERLINE MONUMENT DETAILS

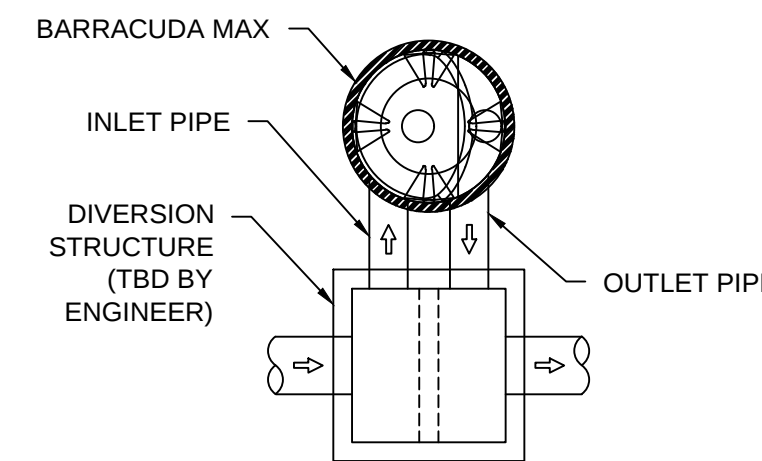
USE EAST JORDAN 8371 MONUMENT BOX OR APPROVED EQUAL

BARRACUDA MAX MINIMUM RIM TO INVERT OUT	
MODEL	INCH (MM)
S3	36 (914)
S4	36 (914)
S6	39 (991)
S8	41 (1041)

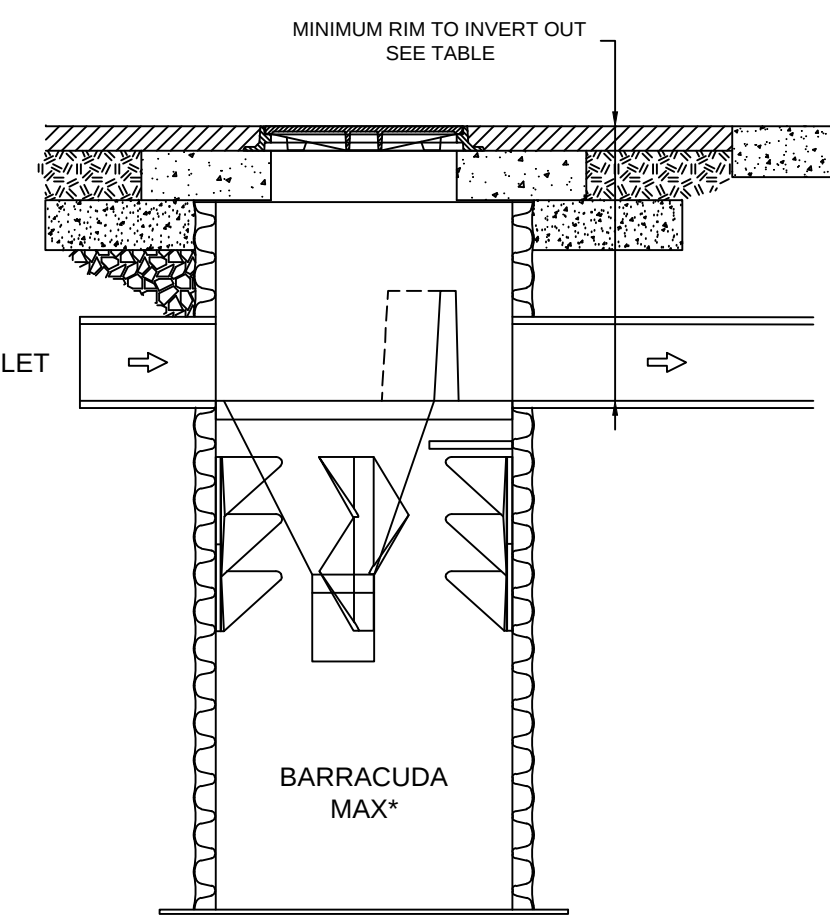
THE S3, S4, S6, AND S8 CAN BE INSTALLED IN A STANDARD 36" (900 mm), 48" (1200 mm), 72" (1800 mm), AND 96" (2400 mm) PRECAST MANHOLE, RESPECTIVELY. THE S3 AND S4 CAN BE PROVIDED FACTORY INSTALLED WITHIN A 36" (900 mm) AND 48" (1200 mm) ADS HP MANHOLE AND DELIVERED TO THE JOBSITE.



ONLINE CONFIGURATION



OFFLINE CONFIGURATION



BARRACUDA MAX NTS

KEY BENEFITS OF THE BARRACUDA MAX

- SINGLE MANHOLE DESIGN
- VARIABLE INLET/OUTLET ANGLE CONFIGURATIONS (NOT JUST 180 DEGREE ORIENTATION)
- INTERNAL BYPASS FOR INLINE INSTALLATION (WHERE APPLICABLE)
- ALL UNITS CAN BE INSTALLED INTO A STANDARD PRECAST MANHOLE
- 3 FT & 4 FT UNITS CAN BE FACTORY FABRICATED IN HP MANHOLES FOR QUICK DELIVERY WITH A LIGHT, EASY TO INSTALL STRUCTURE
- IN-STOCK COMPONENTS FOR QUICK DELIVERY
- NO ELEVATION LOSS BETWEEN THE INLET AND OUTLET
- SURFACE INSPECTION AND MAINTENANCE WITH NO CONFINED SPACE ENTRY
- DESIGNED FOR EASY MAINTENANCE USING A VACUUM TRUCK OR SIMILAR EQUIPMENT
- FIELD ENGINEERS AND INTERNAL ENGINEERING SERVICES DEPARTMENT TO ASSIST ENGINEERING WITH SIZING/DETAILS

BARRACUDA DESIGN TOOL

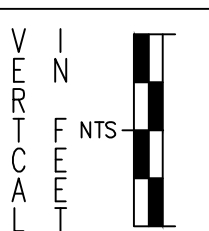
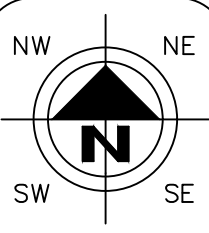
<https://www.ads-pipe.com/water-quality-design-tool>

BARRACUDA MAX TREATMENT FLOW (80% TSS)	
MODEL	CFS (L/s)
S3	0.85 (24.1)
S4	1.52 (43.0)
S6	3.40 (96.3)
S8	6.08 (172.2)

BARRACUDA MAX CAN BE CONFIGURED WITH AN OIL POUCH OR TRASH GUARD FOR ENHANCED TREATMENT.

USE THE FOLLOWING LINK FOR SPECIFICATIONS: <https://assets.ads-pipe.com/m/3d043eee3b0986f/original/ADS-Barracuda-Sell-Sheet.pdf>

USE THE FOLLOWING LINK FOR INSTALLATION INSTRUCTIONS: <https://assets.ads-pipe.com/m/5c72891bbe990fb1/original/Barracuda-S4-S6-S8-Concrete-Installation-Guide.pdf>



NTS
HORIZONTAL
SCALE IN FEET

CHECKED BY:
KAD

DATE:
FEB. 2023

DRAWN BY:
JTD

DATE:
FEB. 2023

REVISIONS:	DESCRIPTION
DATE	

Sippo Reserves Allotment Phases 3 & 4

Miscellaneous Details
City of Massillon
Stark County, Ohio

CIVIPRO
ENGINEERING
ENGINEERS-SURVEYORS-CONSTRUCTION MANAGERS
4450 BELDEN VILLAGE STREET NW, SUITE 800 CANTON, OH 44718
PHONE: (330) 268-3734 EMAIL: KAD@CIVIPROENGINEERING.COM
WWW.CIVIPROENGINEERING.COM

DRAWING NAME:
MiscDetails
REF NUMBER:

Sippo Reserves Allotment Phases 3 & 4
STORM WATER POLLUTION PREVENTION PLAN
CITY OF MASSILLON
STARK COUNTY, OHIO
66 LOTS , 22.3013 ACRES

ESTIMATED CONSTRUCTION DATES

START DATE: AUGUST 2023
COMPLETION DATE: JANUARY 2024

GENERAL NOTES:

FOR REVISIONS/AMENDMENTS TO THE SWP3, CONTACT KEITH A. DYLEWSKI AT CIVPRO ENGINEERING, LLC AT (234) 410-3913.

A LOG DOCUMENTING GRADING AND STABILIZATION ACTIVITIES AS WELL AS AMEDEMMENTS TO THIS SWP3 SHALL BE MAINTAINED WITH THESE PLANS

A PRE-CONSTRUCTION MEETING IS REQUIRED BETWEEN THE DEVELOPER, CONTRACTOR, CITY OF MASSILLON, AND STARK COUNTY SOIL AND WATER PRIOR TO THE BEGINNING OF ANY CONSTRUCTION ACTIVITY ON SITE. CONTACT PARTIES AT LEAST SEVEN DAYS BEFORE COMMENCING ANY LAND DISTURBING ACTIVITY.

OFFSITE BORROW AREAS:

IF OFFSITE BORROW AREA IS REQUIRED. CONTRACTOR SHALL OBTAIN ALL APPLICABLE LOCAL AND STATE PERMITS. LOCATION SHALL BE COVERED BY NOI AND APPROVED SWPPP.

AND STATE PERMITS. LOCATION SHALL BE COVERED BY NOI AND APPROVED SWPPP.

I, THE UNDERSIGNED, 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 MANAGED THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED 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.

KEITH A. DYLEWSKI

DESIGN ENGINEER - KEITH A. DYLEWSKI, P.E., P.S.	3/27/23
LONG-TERM MAINTENANCE OF STRUCTURAL POST- CONSTRUCTION CONTROLS SHALL BE THE RESPONSIBY OF THE OWNER.	DATE
OWNER	DATE
THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION & MAINTENANCE OF SEDIMENT CONTROL & BMP MEASURES DURING THE SEQUENCE OF CONSTRUCTION.	
SITE CONTRACTOR	DATE
THE BUILDING CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION & MAINTENANCE OF SEDIMENT CONTROL & BMP MEASURES ONCE ALL SITE WORK IS COMPLETED.	
BUILDING CONTRACTOR	DATE



LOCATION MAP



PLAN PREPARED BY:
CIVPRO ENGINEERING, LLC
4450 Belden Village Street NW
Suite 800
Canton, Ohio 44718
(234) 410-3913

OWNER:
Rohrer Development, LLC
4453 Sentinel Post Rd.
Atlanta, GA 30327

DEVELOPER:
Frontier Land Group
25700 Science Park Dr.
Suite 360
Beachwood, OH 44122
216-965-1922

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SWP3 STATEMENT:
THIS SWP3 PLAN WAS DEVELOPED TO CONTROL EROSION AND SEDIMENT PRIOR TO EXITING THE SITE. SEDIMENT WILL BE CONTROLLED WITH THE SHOWN BMP'S. SILT FENCE SHOULD BE PLACED AT THE BOTTOM OF THE SLOPES. SEE THE IMPLEMENTATION SCHEDULE & SEQUENCE OF MAJOR CONSTRUCTION OPERATIONS ON THE NEXT SHEET. THE SCHEDULE SHOULD BE FOLLOWED TO MAINTAIN PROPER CONTROL OF EROSION AND SEDIMENT ON SITE. ALL DISTURBED AREAS WHERE CONSTRUCTION WILL CEASE FOR MORE THAN 14 DAYS MUST BE STABILIZED. SEEDING AND MULCHING SHOULD BE CONSISTENT WITH THE SOIL STABILIZATION REQUIREMENTS SECTION. SLOPES 3:1 OR GREATER REQUIRE EROSION CONTROL MATTING TO BE INSTALLED TO CONTROL EROSION. A LOG OF GRADING AND STABILIZATION ACTIVITIES AND SITE INSPECTION NEEDS TO RE KEPT. INSPECTIONS SHALL BE PERFORMED AT LEAST ONCE A WEEK AND WITHIN 24 HOURS AFTER A STORM EVENT GREATER THAN 1/8 INCH OF RAINFALL WITHIN A 24-HOUR DURATION. ALL MEASURES SHALL BE OBSERVED TO ENSURE CORRECT OPERATION; REPAIRS TO ANY DAMAGED DEVICE/STRUCTURE SHALL BE COMPLETED WITHIN 3 DAYS OF THE INSPECTION.

UNDERGROUND UTILITIES
CONTACT BOTH SERVICES TWO WORKING DAYS
BEFORE YOU DIG

Call Before You Dig
1-800-362-2764

(Non-members must be called directly)

OIL & GAS PRODUCERS
UNDERGROUND PROTECTION SERVICE
1-800-925-0988

HORIZONTAL SCALE IN FEET
0 300 600

CHECKED BY: KAD
DATE: FEB. 2023
DRAWN BY: JTD
DATE: FEB. 2023

REVISIONS:	DATE	DESCRIPTION

Sippo Reserves Allotment Phases 3 & 4
SWP3 Plan Title Sheet
City of Massillon
Stark County, Ohio

ENGINEERS-SURVEYORS-CONSTRUCTION MANAGERS
4450 BELDEN VILLAGE STREET NW, SUITE 800 CANTON, OH 44718
PHONE: (234) 410-3913 EMAIL: KAD@CIVPROENGINEERING.COM
WWW.CIVPROENGINEERING.COM

DRAWING NAME:
Sippo Reserves
SWP3 Title Sheet

REF NUMBER:
33 / 39

SEDIMENT POLLUTANT CONTROLS (GENERAL NOTES):

1. PERIMETER SEDIMENT CONTROLS (I.E. SEDIMENT TRAPS, SILT FENCE, COMPOST SOCKS, COMPOST BERMS, ETC.) SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING AND WITHIN SEVEN DAYS FROM THE START OF GRUBBING AND SHALL CONTINUE TO FUNCTION UNTIL UPSLOPE AREAS DRAINING TO THEM ARE PERMANENTLY STABILIZED, OR AS DIRECTED BY THE CITY ENGINEER, OR DESIGNATED REPRESENTATIVE.
2. NO EROSION AND SEDIMENT CONTROL BMP'S SHALL BE REMOVED FROM THE SITE PRIOR TO ADEQUATE PERMANENT STABILIZATION OF THE ASSOCIATED UPLAND DRAINAGE AREAS AND WITHOUT FIRST OBTAINING AUTHORIZATION FROM THE CITY ENGINEER, OR HIS DESIGNATED REPRESENTATIVE, UNLESS THEIR REMOVAL IS SPECIFICALLY PROVIDED FOR WITHIN THE SITE'S APPROVED PLAN.
3. THERE SHALL BE NO SEDIMENT-LADEN OR TURBID DISCHARGES TO WATER RESOURCES OR WETLANDS RESULTING FROM DEWATERING ACTIVITIES. IF TRENCH OR GROUNDWATER CONTAINS SEDIMENT, IT MUST PASS THROUGH A SEDIMENT TRAP 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.
4. STREETS DIRECTLY ADJACENT TO CONSTRUCTION ENTRANCES AND RECEIVING TRAFFIC FROM THE DEVELOPMENT AREA, SHALL BE CLEANED DAILY TO REMOVE SEDIMENT TRACKED OFF-SITE. IF APPLICABLE, THE CATCH BASINS ON THESE STREETS NEAREST TO THE CONSTRUCTION ENTRANCES SHALL ALSO BE CLEANED WEEKLY. BASED ON SITE CONDITIONS, THE CITY ENGINEER, OR HIS DESIGNATED REPRESENTATIVE, MAY REQUIRE ADDITIONAL BEST MANAGEMENT PRACTICES TO CONTROL OFF-SITE TRACKING OF DUST.
5. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER, OR REPRESENTATIVE, TO PROVIDE INSPECTION OF ALL CONTROLS ON THE SITE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS, AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN ONE-HALF INCH OF RAIN PER 24 HOUR PERIOD. INSPECTIONS MUST BE COMPLETED BY A QUALIFIED INDIVIDUAL. WHEN INSPECTIONS REVEAL THE NEED FOR REPAIR, REPLACEMENT, OR INSTALLATION OF EROSION AND SEDIMENT CONTROL BMP'S, EMAIL WEEKLY REPORTS TO BORCHERDS@CVELIMITED.COM. THE FOLLOWING PROCEDURES SHALL BE FOLLOWED:
- A. WHEN PRACTICES REQUIRE REPAIR OR MAINTENANCE: THE BMP SHALL BE REPAIRED WITHIN 3 DAYS OF INSPECTION. EXCEPTION: SEDIMENT PONDS SHALL BE REPAIRED OR MAINTAINED WITH 10 DAYS OF INSPECTION.
- B. WHEN PRACTICES FAIL TO PROVIDE THEIR INTENDED FUNCTION: A MORE APPROPRIATE BMP SHALL BE SELECTED AND IMPLEMENTED WITHIN 10 DAYS OF THE INSPECTION.
- C. WHEN PRACTICES DEPICTED IN THE SWP3 ARE NOT INSTALLED: THE BMP SHALL BE INSTALLED WITHIN 10 DAYS OF THE INSPECTION. IF THE INSPECTION REVEALS THAT THE BMP IS NOT NECESSARY, THE RECORD MUST CONTAIN AN EXPLANATION FOR THE DECISION.
6. THE APPLICANT SHALL MAINTAIN FOR 3 YEARS FOLLOWING FINAL STABILIZATION, THE RESULTS OF THESE INSPECTIONS, THE NAMES AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTIONS, THE DATES OF INSPECTIONS, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE SWP3, A CERTIFICATION AS TO WHETHER THE FACILITY IS IN COMPLIANCE WITH THE SWP3, AND INFORMATION ON ANY INCIDENTS OF NON-COMPLIANCE DETERMINED BY THESE INSPECTIONS.
7. ALL EROSION AND SEDIMENT CONTROL PRACTICES SPECIFIED ON THIS PLAN SHALL CONFORM WITH THE DETAILS AND SPECIFICATIONS OUTLINED IN THE CURRENT VERSION OF THE OHIO DEPARTMENT OF NATURAL RESOURCES, "RAINWATER AND LAND DEVELOPMENT" MANUAL, OR AS SPECIFIED BY THE CITY ENGINEER, OR DESIGNATED REPRESENTATIVE.
8. EROSION AND SEDIMENT CONTROL PRACTICES NOT ALREADY SPECIFIED ON THIS PLAN MAY BE NECESSARY DUE TO UNFORESEEN ENVIRONMENTAL CONDITIONS AND /OR CHANGES IN DRAINAGE PATTERNS CAUSED BY EARTH-MOVING ACTIVITY. ADDITIONAL PRACTICES SHALL BE IMPLEMENTED AT THE DEVELOPER'S EXPENSE AS DIRECTED BY THE CITY ENGINEER, OR DESIGNATED REPRESENTATIVE.
9. NO STRUCTURAL SEDIMENT CONTROLS (SILT FENCE, SEDIMENT TRAPS, ETC.) SHALL BE USED IN A WATER RESOURCE OR WETLAND, UNLESS THEIR USE IS SPECIFICALLY PROVIDED FOR WITHIN THE SITE'S APPROVED PLAN.
10. SOIL STOCK PILES, TOPSOIL OR OTHER WISE, SHALL BE SITUATED A WAY FROM STREETS, SWALES, OR OTHER WATERWAYS AND SHALL BE SEEDED AND /OR MULCHED IMMEDIATELY.
11. ON-SITE PERSONNEL SHALL TAKE ALL NECESSARY MEASURES TO COMPLY WITH APPLICABLE REGULATIONS REGARDING FUGITIVE DUST EMISSIONS, INCLUDING OBTAINING NECESSARY PERMITS FOR SUCH EMISSIONS. THE CITY ENGINEER, OR DESIGNATED REPRESENTATIVE, MAY REQUIRE DUST CONTROLS INCLUDING, BUT NOT LIMITED TO, THE USE OF WATER TRUCKS TO WET DISTURBED AREAS, TAPPING STOCKPILES, TEMPORARY STABILIZATION OF DISTURBED AREAS, AND REGULATION OF THE SPEED OF VEHICLES ON THE SITE.

1. ANY DISTURBED AREA NOT PAVED, SODDED, OR BUILT UPON SHALL HAVE A MINIMUM OF 80% UNIFORM VEGETATIVE COVER PRIOR TO FINAL INSPECTION AND, IN THE OPINION OF THE CITY ENGINEER OR DESIGNATED REPRESENTATIVE, WILL BE MATURE ENOUGH TO CONTROL EROSION SATISFACTORILY AND SURVIVE SEVERE WEATHER.

NON-SEDIMENT POLLUTANT CONTROLS (GENERAL NOTES):

1. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. THE INDIVIDUAL WHO MANAGES THE DAY- TO- DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR ENSURING ALL FORMS OF WASTE ARE PROPERLY DISPOSED OF.
2. NO CONTAMINATED SOILS ARE KNOWN TO EXIST ON SITE. CONTAMINATED SOILS DISCOVERED FROM REDEVELOPMENT SITES SHALL BE DISPOSED OF PROPERLY. RUNOFF FROM CONTAMINATED SOILS SHALL NOT BE DISCHARGED FROM THE SITE. PROPER PERMITS SHALL BE OBTAINED FOR DEVELOPMENT PROJECTS ON SOLID WASTE LANDFILL SITES OR REDEVELOPMENT SITES.
3. CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WATER CONVEYANCE. A SUMP OR PIT WITH NO POTENTIAL FOR DISCHARGE SHALL BE CONSTRUCTED IF NEEDED TO CONTAIN CONCRETE WASH WATER. FIELD TILE OR OTHER SUBSURFACE DRAINAGE STRUCTURES WITHIN 10 FEET OF THE SUMP SHALL BE CUT AND PLUGGED. FOR SMALL PROJECTS, TRUCK CHUTES MAY BE RINSED AWAY FROM ANY WATER CONVEYANCES.

4. NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF. ANY AND ALL WASTE MATERIALS (SOLID, HAZARDOUS, CONSTRUCTION & DEMOLITION, SANITARY, TOXIC, CONTAMINATED SOILS, ETC.) GENERATED AT THE SITE SHALL BE PROPERLY DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL RULES/REGULATIONS. ON-SITE STORAGE CONTAINERS SHALL BE COVERED AND NOT LEAKING. IT IS PROHIBITED TO BURN, BUY OR POUR OUT ONTO THE GROUND OR INTO THE STORM SEWERS ANY SOLVENTS, PAINTS, GASOLINE, DIESEL FUEL, USED MOTOR OIL, HYDRAULIC FLUID, ANTIFREEZE, CEMENT CURING COMPOUNDS AND ANY OTHER SUCH TOXIC OR HAZARDOUS MATERIALS OR WASTES.

5. HANDLING CONSTRUCTION CHEMICALS. MIXING, PUMPING, TRANSFERRING OR OTHER HANDLING OF CONSTRUCTION CHEMICALS SUCH AS FERTILIZER, LIME, ASPHALT, CONCRETE DRYING COMPOUNDS, AND ALL OTHER POTENTIALLY HAZARDOUS MATERIALS SHALL BE PERFORMED IN AN AREA AWAY FROM ANY WATER COURSE, DITCH OR STORM DRAIN.

6. EQUIPMENT FUELING AND MAINTENANCE, OIL CHANGING, ETC., SHALL BE PERFORMED A WAY FROM WATER COURSES, DITCHES OR STORM DRAINS, IN AN AREA DESIGNATED FOR THAT PURPOSE. THE DESIGNATED AREA SHALL BE EQUIPPED FOR RECYCLING OIL AND CATCHING SPILLS. SECONDARY CONTAINMENT WITH A MINIMUM CAPACITY EQUAL TO 10% OF THE VOLUME OF ALL CONTAINERS IN A STORAGE AREA SHALL BE PROVIDED FOR ALL FUEL/LIQUID STORAGE TANKS AND DRUMS.

7. ALL SANITARY WASTE SHALL BE COLLECTED FROM PORTABLE UNITS A MINIMUM OF THREE TIMES PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR, AS REQUIRED BY LOCAL REGULATION.

8. THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ON SITE DURING THE CONSTRUCTION PROJECT:

- A. AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
- B. ALL MATERIALS STORED ON SITE WILL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR APPROPRIATE CONTAINERS, AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
- C. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE MANUFACTURER'S LABEL. SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
- D. WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
- E. THE MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
- F. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ON SITE.

9. IN ADDITION TO PREVIOUS NOTES, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEAN-UP:

- A. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEAN-UP WILL BE POSTED A NO SITE PERSONNEL MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEAN-UP SUPPLIES.
- B. MATERIALS AND EQUIPMENT NECESSARY FOR SPELL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ON SITE. EQUIPMENT AND MATERIALS WILL INCLUDE, BUT NOT LIMITED TO: BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY DESIGNATED FOR THIS PURPOSE.
- C. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
- D. THE SPILL AREA WILL BE KEPT WELL-VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- E. SPILLS OF TOXIC OR HAZARDOUS MATERIALS WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF SIZE.
- F. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEANUP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.
- G. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY OPERATIONS WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. THEY WILL DESIGNATE SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ON SITE.

CITY OF MASSILLON CONSTRUCTION STANDARDS AND SPECIFICATIONS:

GENERAL

CONTRACTOR SHALL MEET THE EROSION AND SEDIMENT CONTROL REQUIREMENTS OF THE OHIO ENVIRONMENTAL PROTECTION AGENCY, DEPARTMENT OF TRANSPORTATION AND THE SOIL CONSERVATION SPECIFICATIONS. REQUIRED NPDES STORM WATER PERMITS SHALL APPLY.

IN CASES WHERE CONFLICTS EXIST BETWEEN STANDARDS, THE STRICTER REQUIREMENTS SHALL GOVERN.

PROPOSED TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE APPROVED BY THE CITY ENGINEER.

CONSTRUCTION ENTRANCE

THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FT.

MATERIAL USED SHALL BE #1 & #2 LIMESTONE AGGREGATE TWO INCH STONE. MINIMUM WIDTH OF 14 FT. AND DEPTH OF 8".

A CULVERT PIPE SHALL BE PLACED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FLOW ACROSS THE ENTRANCE AND ONTO THE PAVED ROADWAY, PER CITY STANDARDS.

CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE TRACKING, THEREFORE MUD TRACKED ON TO PUBLIC ROADS SHALL BE REMOVED IMMEDIATELY BY SCRAPING OR SWEEPING.

PAVED DETENTION FACILITY

DETENTION FACILITIES WHICH ARE TO REMAIN PERMANENT SHALL BE DESIGNED TO INCLUDE CONCRETE PAVED GUTTERS IN ACCORDANCE WITH THE ODOT STANDARD DRAWING FOR PAVED GUTTERS, DM Z.I.M. GUTTERS SHALL BE CONSTRUCTED OF CLASS C CONCRETE. THE PROPOSED DESIGN, GRADE AND LOCATION SHALL BE SUBMITTED TO THE CITY ENGINEER FOR HIS APPROVAL OR MODIFICATION.

SPECIFICATION FOR SEEDING (G-13)

1. A SUBSOILER, PLOW OR OTHER IMPLEMENT SHALL BE USED TO REDUCE SOIL COMPACTION AND ALLOW MAXIMUM INFILTRATION. MAXIMIZING INFILTRATION WILL HELP CONTROL BOTH RUNOFF RATE AND WATER QUALITY. SUBSOILING SHOULD BE DONE WHEN THE SOIL MOISTURE IS LOW ENOUGH TO ALLOW THE SOIL TO CRACK OR FRACTURE. SUBSOILING SHALL NOT BE DONE ON SLIP-PRONE AREAS WHERE SOIL PREPARATION SHOULD BE LIMITED TO WHAT IS NECESSARY FOR ESTABLISHING VEGETATION.

2. THE SITE SHALL BE GRADED AS NEEDED TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION AND SEEDING.

3. REOIL SHALL BE APPLIED WHERE NEEDED TO ESTABLISH VEGETATION.

SEEDBED PREPARATION:

1. LIME -- AGRICULTURAL GROUND LIMESTONE SHALL BE APPLIED TO ACID SOIL AS RECOMMEND BY A SOIL TEST. IN LIEU OF A SOIL TEST, LIME SHALL BE APPLIED AT A RATE OF 100 LB./1,000 SQ.FT. OR 2 TONS/ AC.
2. FERTILIZER -- FERTILIZER SHALL BE APPLIED AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A SOIL TEST, FERTILIZER SHALL BE APPLIED AT A RATE OF 12 LB./1,000 SQ. FT. OR 500. LB./AC. OF 10-10-10 OR 12-12-12 ANALYSIS.
3. THE LIME AND FERTILIZER SHALL BE WORKED INTO THE SOIL WITH A DISK HARROW, SPRING-TOOTH HARROW, OR OTHER SUITABLE FIELD IMPLEMENT TO A DEPTH OF 3 IN. ON SLOPING LAND, THE SOIL SHOULD SHALL BE WORKED ON THE CONTOUR.
4. SEEDING SHOULD BE DONE MARCH 1 TO MAY 31 OR AUGUST 1 TO SEPTEMBER 30 THESE SEEDING DATES ARE IDEAL BUT, WITH THE USE OF ADDITIONAL MULCH AND IRRIGATION, SEEDINGS MAY BE MADE ANY TIME THROUGHOUT THE GROWING SEASON. TILLAGE/SEEDBED PREPARATION SHOULD BE DONE WHEN THE SOIL IS DRY ENOUGH TO CRUMBLE AND NOT FORM RIBBONS WHEN COMPRESSED BY HAND. FOR WINTER SEEDING, SEE THE FOLLOWING SECTION OF DORMANT SEEDING.

DORMANT SEEDINGS

1. SEEDING SHALL NOT BE PLANTED FROM OCTOBER 1 THROUGH NOVEMBER 20 DURING THIS PERIOD THE SEEDS ARE LIKELY TO GERMINATE BUT PROBABLY WILL NOT BE ABLE TO SURVIVE THE WINTER.

2. THE FOLLOWING METHODS MAY BE USED FOR "DORMANT SEEDING"

• FROM OCTOBER 1 THROUGH NOVEMBER 20, PREPARE THE SEEDBED, ADD THE REQUIRED AMOUNTS OF LIME AND FERTILIZER, THEN MULCH AND ANCHOR. AFTER NOVEMBER 20, AND BEFORE MARCH 15, BROADCAST THE ELECTED SEED MIXTURE. INCREASE THE SEEDING RATES BY 50% FOR THIS TYPE OF SEEDING.

• FROM NOVEMBER 20, THROUGH MARCH 15, WHEN SOIL CONDITIONS PER MIX, PREPARE THE SEEDBED, LIME AND FERTILIZE. APPLY THE SELECTED SEED MIXTURE, MULCH AND ANCHOR. INCREASE THE SEEDING RATES BY 50% FOR THIS TYPE OF SEEDING.

• APPLY SEEDING UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDRO-SEEDER (SLURRY MAY INCLUDE SEED AND FERTILIZER) ON A FIRM, MOIST SEEDBED.

• WHERE FEASIBLE, EXCEPT WHEN A CULTIPACKER TYPE SEEDER IS USED, THE SEEDBED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A CULTIPACKER, ROLLER, OR LIGHT DRAG. ON SLOPING LAND, SEEDING OPERATIONS SHOULD BE ON THE CONTOUR WHERE FEASIBLE.

MULCHING

1. MULCH MATERIAL SHALL BE APPLIED IMMEDIATELY AFTER SEEDING. SEEDINGS MADE DURING OPTIMUM SEEDING DATES AND WITH FAVORABLE SOIL CONDITIONS AND ON VERY FLAT AREAS MAY NOT NEED MULCH TO ACHIEVE ADEQUATE STABILIZATION. DORMANT SEEDING SHALL BE MULCHED.

2. MATERIALS

• STRAW -- IF STRAW IS USED IT SHALL BE UNROTTED SMALL-GRAIN STRAW APPLIED AT THE RATE OF 2 TONS/ AC. OR 90 LB./1,000 SQ. FT. (TWO TO THREE BALES). THE MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000-SQ. -FT. SECTIONS AND SPREAD TWO 45- LB. BALES OF STRAW IN EACH SECTION.

• HYDROSEEDERS -- IF WOOD CELLULOSE FIBER IS USED, IT SHALL BE USED AT 2,000 LB./AC/ OR 46 LB./1,000 SQ.FT.

• OTHER -- OTHER ACCEPTABLE MULCHES INCLUDE MULCH MATTINGS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 6 TONS/ A C.

3. STRAW MULCH ANCHORING METHODS

- STRAW MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR WATER.
- MECHANICAL -- A DISK, CRIMPER, OR SIMILAR TYPE TOOL SHALL BE SET STRAIGHT TO PINCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED, BUT GENERALLY, BE LEFT LONGER THAN 6 IN.
 - MULCH NETTINGS -- NETTINGS SHALL BE USED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. NETTING MAY BE NECESSARY TO HOLD MULCH IN PLACE IN AREAS OF CONCENTRATED RUNOFF AND ON CRITICAL SLOPES.
 - ASPHALT EMULSION -- ASPHALT SHALL BE APPLIED AS RECOMMENDED BY THE MANUFACTURER OR AT A RATE OF 160 GAL. / AC.
 - SYNTHETIC BINDERS -- SYNTHETIC BINDER S SUCH AS ACRYLIC DLRACRI-TAC), DCA-70, PETROSET, TERRA TACK OR EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER.
 - WOOD CELLULOSE FIBER -- WOOD CELULOSE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LB./AC. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 L B./100 GAL. OR WOOD CELLULOSE FIBER.

IRRIGATION

1. PERMANENT SEEDING SHALL INCLUDE IRRIGATION TO ESTABLISH VEGETATION DURING DRY OR HOT WEATHER OR ON ADVERSE SITE CONDITIONS AS NEEDED FOR ADEQUATE MOISTURE FOR SEED GERMINATION AND PLANT GROWTH.

2. EXCESSIVE IRRIGATION RATES SHALL BE AVOIDED AND IRRIGATION MONITORED TO PREVENT EROSION AND DAMAGE FROM RUNOFF.

SEED MIX

1. SEED MIX SHALL BE PER ODOT 559.09 OR AS APPROVED BY THE CITY SERVICE DEPT.

IMPLEMENTATION SCHEDULE & SEQUENCE OF MAJOR CONSTRUCTION OPERATIONS:

A. BEFORE ANY GRADING ACTIVITIES BEGIN:
CONTACT STARK SOIL & WATER CONSERVATION DISTRICT TO SCHEDULE A PRE-CONSTRUCTION MEETING AT (330) 451-7645 PRIOR TO ANY EARTH MOVING ACTIVITY

1. INSTALL PROTECTION FENCING AROUND WETLAND AREA TO REMAIN UNDISTURBED. FENCING TO BE MAINTAINED THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS.

2. CONSTRUCT CONSTRUCTION FENCE AS NECESSARY TO ENCLOSE SITE

3. INSTALL SILT FENCING PER DETAIL

4. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE

B. CLEARING AND GRUBBING:

1. INSTALL REMAINING SILT FENCE, PER PLAN REQUIREMENTS
2. CLEAR AND GRUB THE BASIN/WATER QUALITY BASIN AREA
3. CONSTRUCT SEDIMENT BASIN PER PLAN WITH OUTLET STRUCTURE, EMERGENCY SPILLWAY, AND ASSOCIATED PIPING
4. CONSTRUCT THE DRAINAGE DITCHES AND CHECK DAMS
5. CLEAR AND GRUB REMAINING AREAS DESIGNATED ON THE PLAN
6. CONSTRUCT CONCRETE WASHOUT AREA, VEHICLE FUELING AREA, CONSTRUCTION DUMPSTER AREA, AND SOLID, SANITARY, AND TOXIC WASTE AREA

C. STRIPPING AND STOCKPILING OF TOPSOIL

1. STRIP TOPSOIL WHERE APPLICABLE AND PLACE IN DESIGNATED STOCKPILE AREA
2. CONSTRUCT FILTER BERM AROUND STOCKPILE
3. INSTALL SOIL STABILIZATION MEASURES AS NEEDED
4. DISTURBED AREAS WHERE CONSTRUCTION WILL CEASE FOR MORE THAN 14 DAYS WILL BE STABILIZED

D. MASS GRADING OPERATIONS:

1. BEGIN MASS GRADING OF SITE PER PLAN
2. INSTALL EROSION CONTROLS MEASURES (ROCK DAMS, EROSION CONTROL MATTING, ETC.), PER PLAN REQUIREMENTS AS NEEDED
3. DISTURBED AREAS WHERE CONSTRUCTION WILL CEASE FOR MORE THAN 14 DAYS WILL BE STABILIZED

E. UTILITY CONSTRUCTION:

1. CONSTRUCT SANITARY SERVICE AND WATERLINE, PER PLAN
2. CONSTRUCT STORM SEWER SYSTEM, INCLUDING HEADWALLS, CATCH BASINS, BARRACUDA MAX SYSTEMS, PHASE 4 SEDIMENT & RETENTION BASIN, YARD DRAINS, AND ROCK CHANNEL PROTECTION, PER PLAN
3. INSTALL INLET PROTECTION
4. INSTALL SOIL STABILIZATION MEASURES AS NEEDED

F. PAVING OPERATIONS:

1. CONSTRUCT ASPHALT AND CONCRETE PAVING, SIDEWALK, CURB
2. CLEAN AND RESET ALL UTILITY STRUCTURES TO FINAL GRADE
- NOTE: THE TEMPORARY DITCH IS NOW NO LONGER NECESSARY

G. BUILDING:

2. CONSTRUCTION OF BUILDING. MAINTAIN ALL BMPs.

H. FINAL GRADING OPERATIONS:

1. REMOVE SEDIMENT FROM POND AND DRAINAGE STRUCTURES
2. REMOVE BMPs FROM STORM INLETS AND FINALIZE PAVEMENT ACTIVITIES
3. REMOVE TEMPORARY CONCRETE WASHOUT AREA
4. REMOVE ALL TEMPORARY BMPs AND STABILIZE ANY AREAS DISTURBED BY THERE REMOVAL WITH EROSION CONTROLS
5. PREPARE FINAL SEEDING AND LANDSCAPING
6. REMOVE PROTECTION FENCING AROUND WETLAND AREA
7. BASIN MUST BE DREGGED OF ACCUMULATED SEDIMENT AND RESTORED TO ORIGINAL DESIGN CAPACITY
8. CONVERT THE SEDIMENT BASIN TO THE POST-CONSTRUCTION DESIGN.
- I. POST-GRADING OPERATIONS:
1. MONITOR PROGRESS OF SITE STABILIZATION
2. RE-SEED AND REPAIR DAMAGED AREAS
3. MAINTAIN AND INSPECT ALL PERMANENT BMPs

DEWATERING:

1. THERE SHALL BE NO TURBID DISCHARGES TO SURFACE WATERS FROM DEWATERING ACTIVITIES.
2. CONTRACTOR SHALL PREPARE A DEWATERING PLAN PRIOR TO ANY PUMPING ACTIVITIES.
3. WATER FROM TRENCHES SHALL BE DISPOSED OF IN SUCH A MANNER TO AVOID PUBLIC NUISANCE, INJURY TO PUBLIC HEALTH OR ENVIRONMENT, DAMAGE TO PROPERTIES, OR DAMAGE TO WORK COMPLETED.

NWNE

SWSE

N

PROPERTY

LINE

1/4

N/A

1/4

1/4

1/4

1"=100'

N/A

HORIZONTAL SCALE IN FEET

CHECKED BY:

KAD

DATE:

Mar. 2023

DRAWN BY:

JTD

DATE:

Mar. 2023

REVISIONS:

DESCRIPTION

DATE

Sippo Reserves Allotment Phases 3 - 4

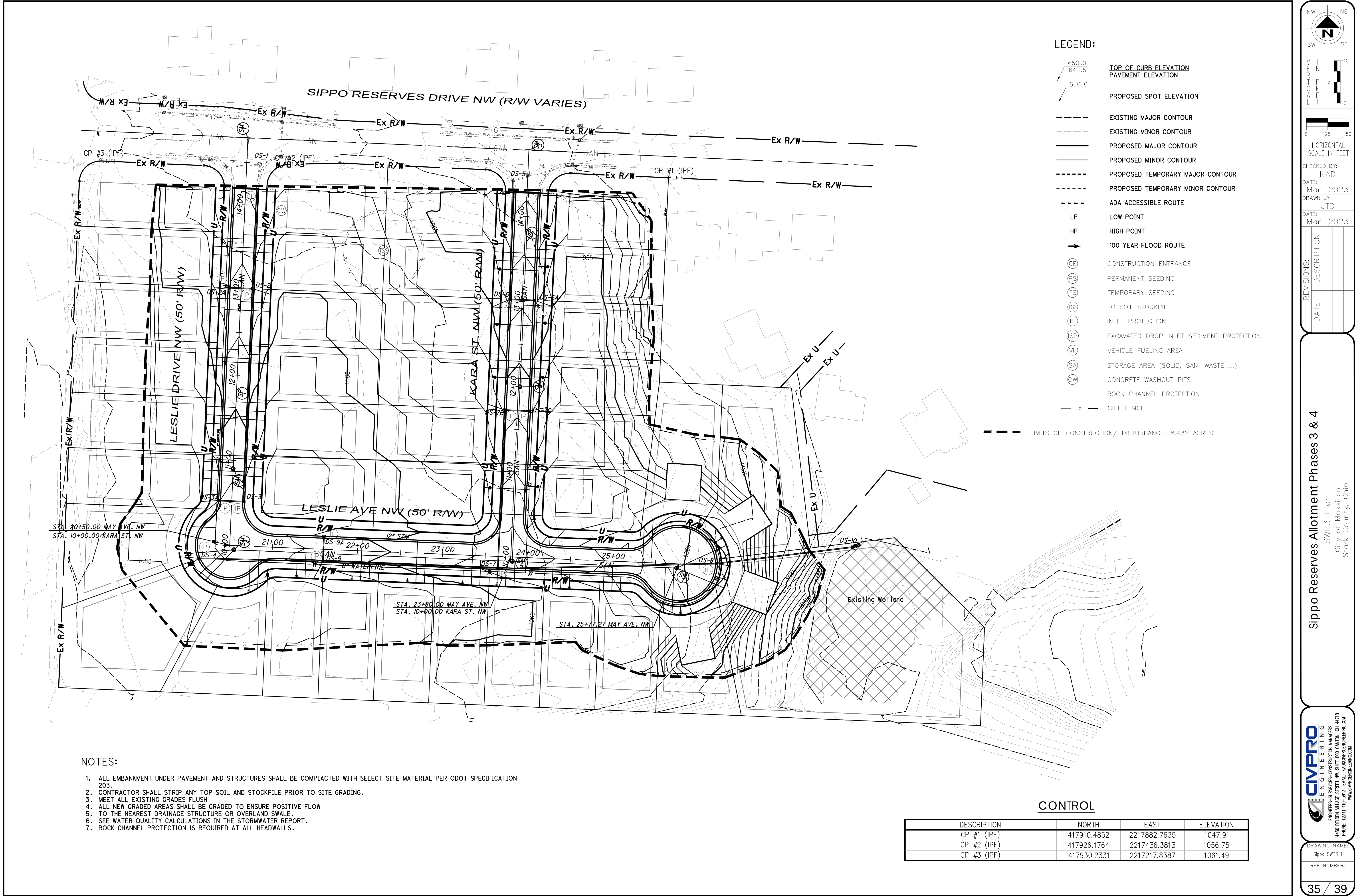
SWP3 General Notes
City of Massillon
Stark County, Ohio

CIVPRO

ENGINEERING

ENGINEERS-SURVEYORS-CONSTRUCTION MANAGERS
1450 BELDEN VILLAGE STREET NW, SUITE 800 CANTON, OH 44718
PHONE: (330) 266-3734 EMAIL: KAD@CIVPROENGINEERING.COM
WWW.CIVPROENGINEERING.COM

DRAWING NAME:
SWP3 General Notes
PROJECT NUMBER:



- LEGEND:
- 650.0
649.5
650.0
TOP OF CURB ELEVATION
PAVEMENT ELEVATION
 - PROPOSED SPOT ELEVATION
 - EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - PROPOSED MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - PROPOSED TEMPORARY MAJOR CONTOUR
 - PROPOSED TEMPORARY MINOR CONTOUR
 - ADA ACCESSIBLE ROUTE
 - LP LOW POINT
 - HP HIGH POINT
 - 100 YEAR FLOOD ROUTE
 - CE CONSTRUCTION ENTRANCE
 - PS PERMANENT SEEDING
 - TS TEMPORARY SEEDING
 - TSS TOPSOIL STOCKPILE
 - IP INLET PROTECTION
 - ISP EXCAVATED DROP INLET SEDIMENT PROTECTION
 - VF VEHICLE FUELING AREA
 - SA STORAGE AREA (SOLID, SAN. WASTE.....)
 - W CONCRETE WASHOUT PITS
 - ROCK CHANNEL PROTECTION
 - x SILT FENCE

--- LIMITS OF CONSTRUCTION/ DISTURBANCE: 8.432 ACRES

NOTES:

- ALL EMBANKMENT UNDER PAVEMENT AND STRUCTURES SHALL BE COMPACTED WITH SELECT SITE MATERIAL PER ODOT SPECIFICATION 203.
- CONTRACTOR SHALL STRIP ANY TOP SOIL AND STOCKPILE PRIOR TO SITE GRADING.
- MEET ALL EXISTING GRADES FLUSH
- ALL NEW GRADED AREAS SHALL BE GRADED TO ENSURE POSITIVE FLOW
- TO THE NEAREST DRAINAGE STRUCTURE OR OVERLAND SWALE.
- SEE WATER QUALITY CALCULATIONS IN THE STORMWATER REPORT.
- ROCK CHANNEL PROTECTION IS REQUIRED AT ALL HEADWALLS.

CONTROL

DESCRIPTION	NORTH	EAST	ELEVATION
CP #1 (IPF)	417910.4852	2217882.7635	1047.91
CP #2 (IPF)	417926.1764	2217436.3813	1056.75
CP #3 (IPF)	417930.2331	2217217.8387	1061.49

NWNE
SWSE

010
05
00

025
050

HORIZONTAL
SCALE IN FEET

CHECKED BY:
KAD
DATE:
Mar, 2023
DRAWN BY:
JTD
DATE:
Mar, 2023

REVISIONS:

DATE	DESCRIPTION

Sippo Reserves Allotment Phases 3 & 4

SWP3 Plan
City of Massillon
Stark County, Ohio

CIVIPRO

ENGINEERING

ENGINEERS-SURVEYORS-CONSTRUCTION MANAGERS
4450 ELDEN VILLAGE STREET NW, SUITE 800 CANTON, OH 44718
PHONE: (204) 410-3090 EMAIL: INFO@CIVIPROENGINEERING.COM
WWW.CIVIPROENGINEERING.COM

DRAWING NAME:
Sippo SWP3 1

REF. NUMBER:

35 / 39

LEGEND:

- 650.0
649.5
650.0
- TOP OF CURB ELEVATION
PAVEMENT ELEVATION
- PROPOSED SPOT ELEVATION
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED TEMPORARY MAJOR CONTOUR
- PROPOSED TEMPORARY MINOR CONTOUR
- ADA ACCESSIBLE ROUTE
- LP LOW POINT
- HP HIGH POINT
- 100 YEAR FLOOD ROUTE
- CE CONSTRUCTION ENTRANCE
- PS PERMANENT SEEDING
- TS TEMPORARY SEEDING
- TSS TOPSOIL STOCKPILE
- IP INLET PROTECTION
- SP EXCAVATED DROP INLET SEDIMENT PROTECTION
- VF VEHICLE FUELING AREA
- SA STORAGE AREA (SOLID, SAN. WASTE.....)
- CW CONCRETE WASHOUT PITS
- ROCK CHANNEL PROTECTION
- x SILT FENCE

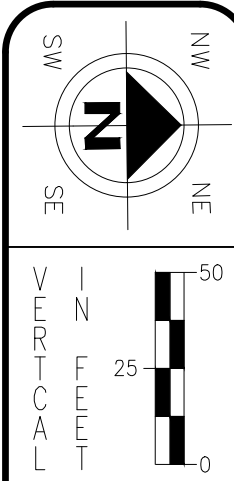
LIMITS OF CONSTRUCTION/ DISTURBANCE & POTENTIAL TREE CLEARING: 8,336 ACRES

CONTROL

DESCRIPTION	NORTH	EAST	ELEVATION
CP #1 (IPF)	417234.4936	2219048.7316	1041.8137
CP #2 (IPF)	417247.0286	2218735.4148	1054.00
CP #3 (IPF)	417651.0999	2219065.0051	1040.40

NOTES:

- ALL EMBANKMENT UNDER PAVEMENT AND STRUCTURES SHALL BE COMPACTED WITH SELECT SITE MATERIAL PER ODOT SPECIFICATION 203.
- CONTRACTOR SHALL STRIP ANY TOP SOIL AND STOCKPILE PRIOR TO SITE GRADING.
- MEET ALL EXISTING GRADES FLUSH
- ALL NEW GRADED AREAS SHALL BE GRADED TO ENSURE POSITIVE FLOW
- TO THE NEAREST DRAINAGE STRUCTURE OR OVERLAND SWALE.
- SEE WATER QUALITY CALCULATIONS IN THE STORMWATER REPORT.
- ROCK CHANNEL PROTECTION IS REQUIRED AT ALL HEADWALLS.
LENGTH OF ROCK: 8'
DEPTH OF ROCK: 18"
ROCK SIZE: 6"
ROCK TYPE: C



HORIZONTAL
SCALE IN FEET

CHECKED BY:
KAD

DATE:
Mar, 2023

DRAWN BY:
JTD

DATE:
Mar, 2023

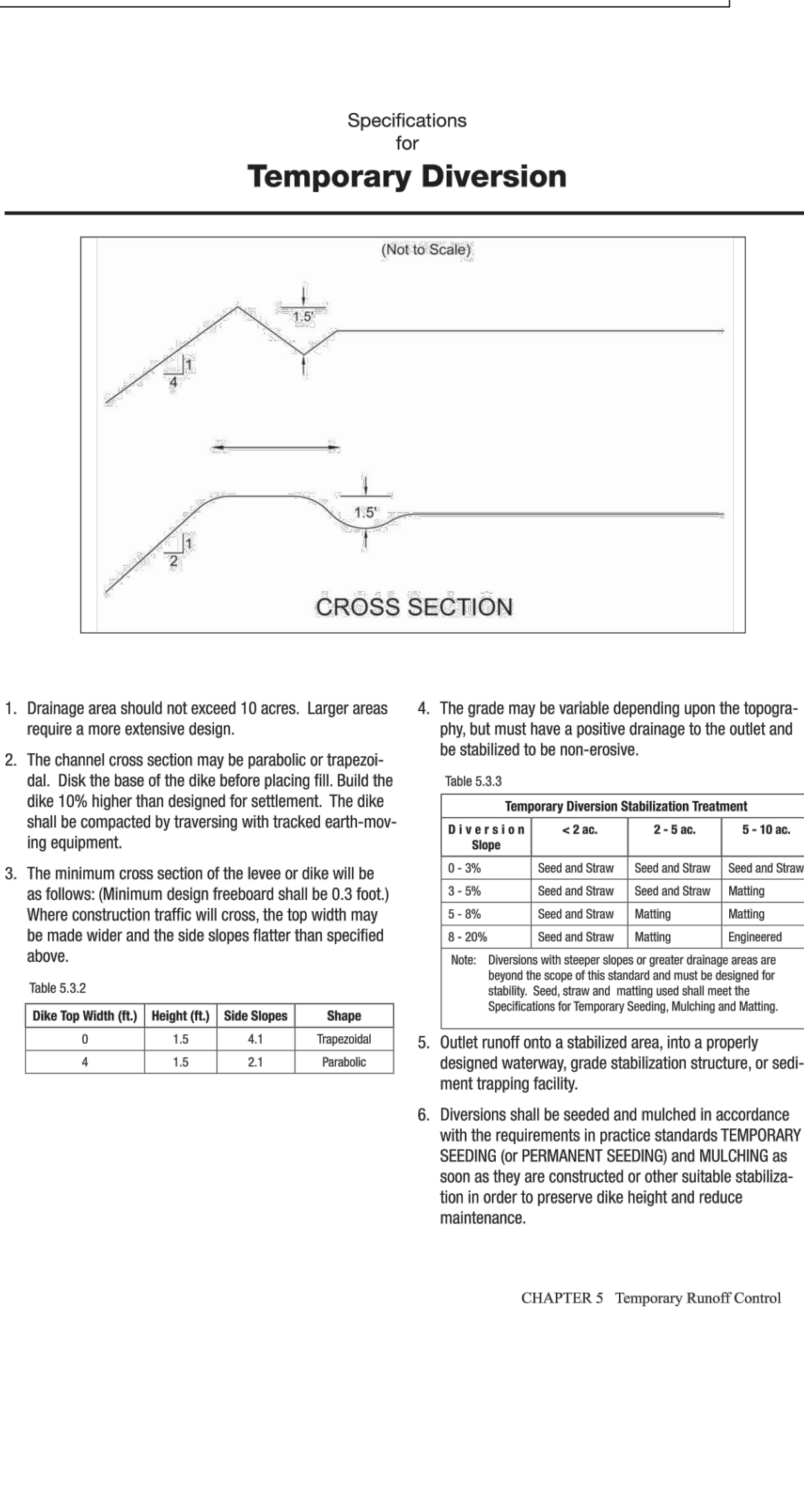
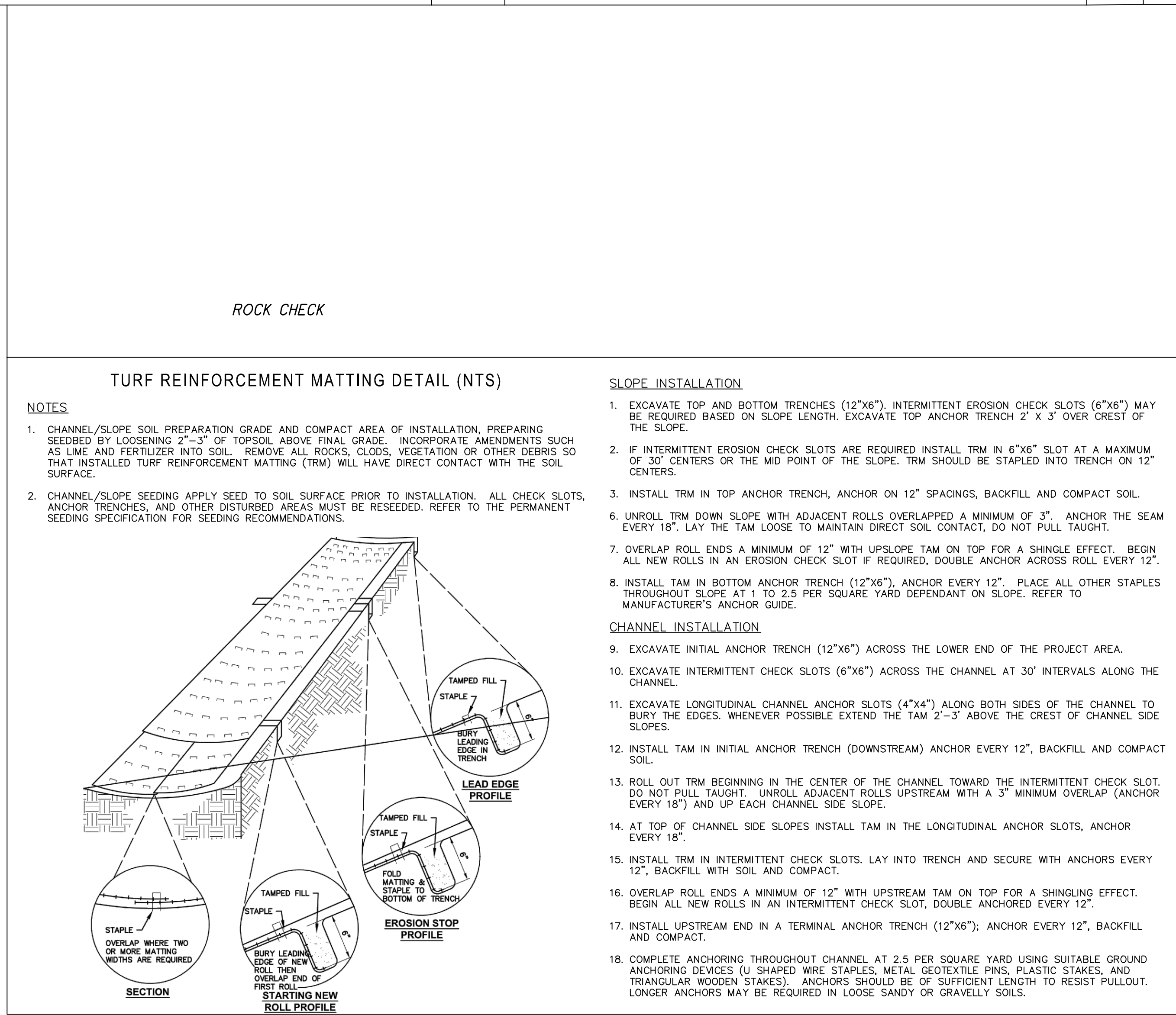
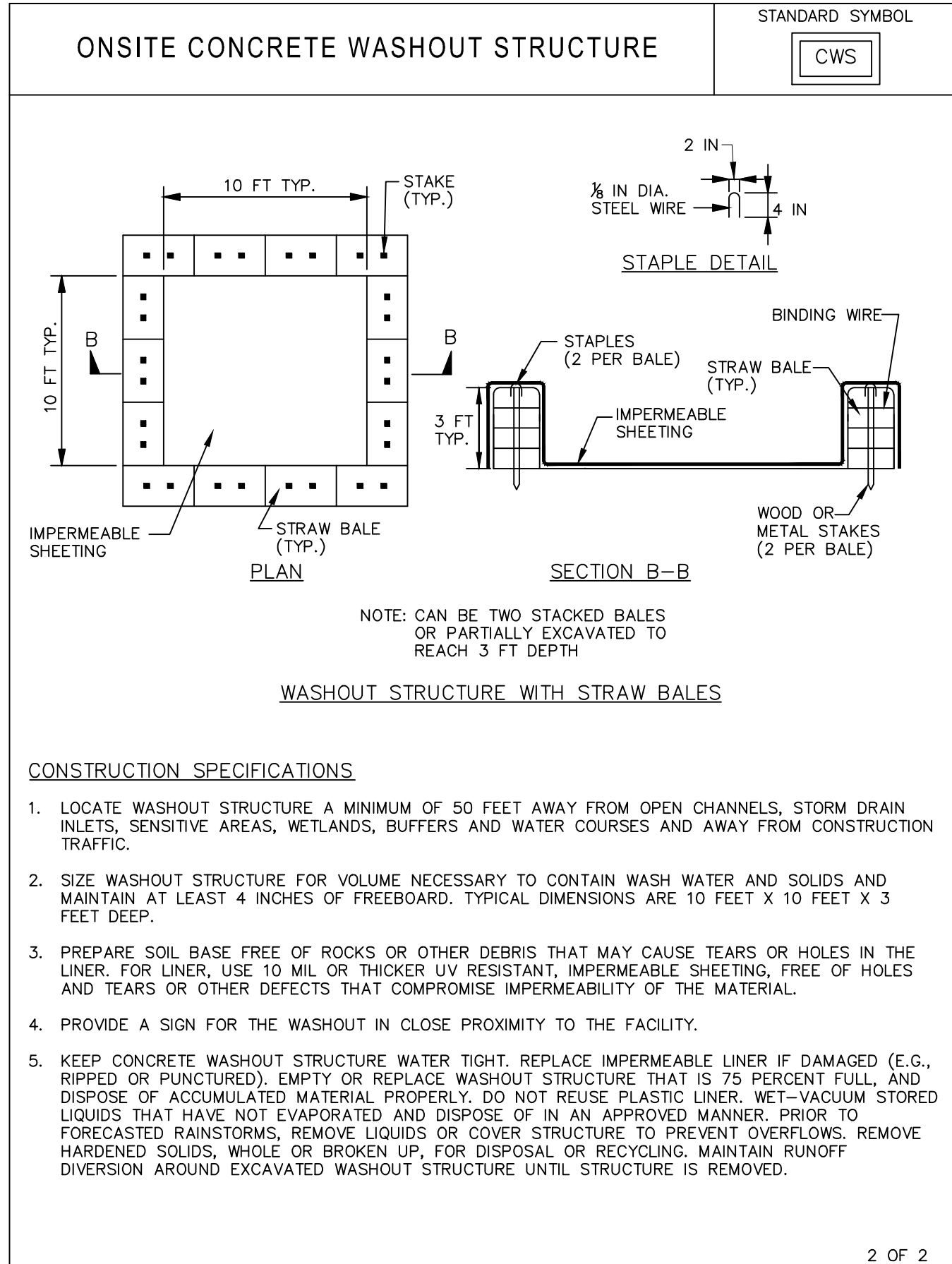
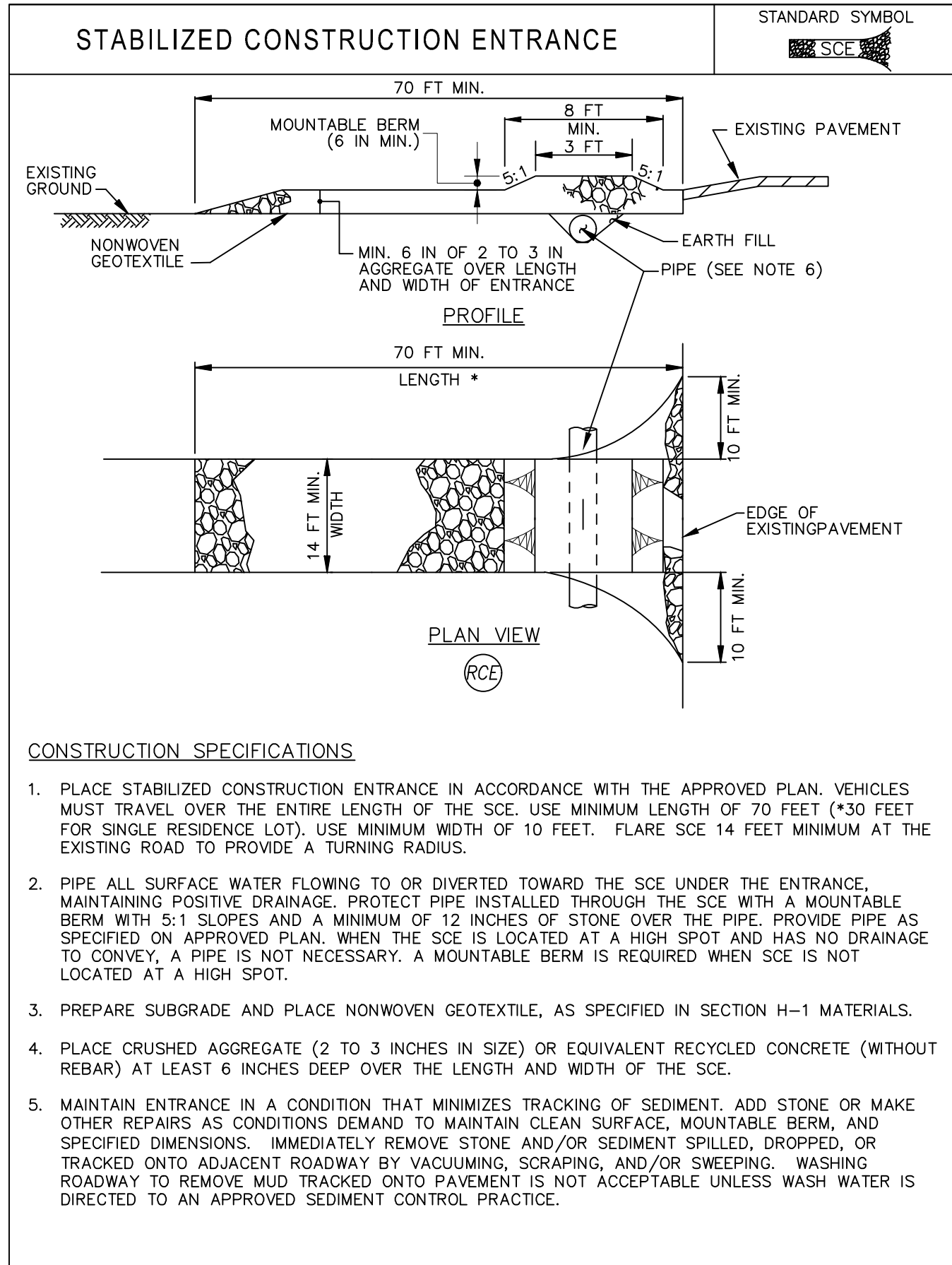
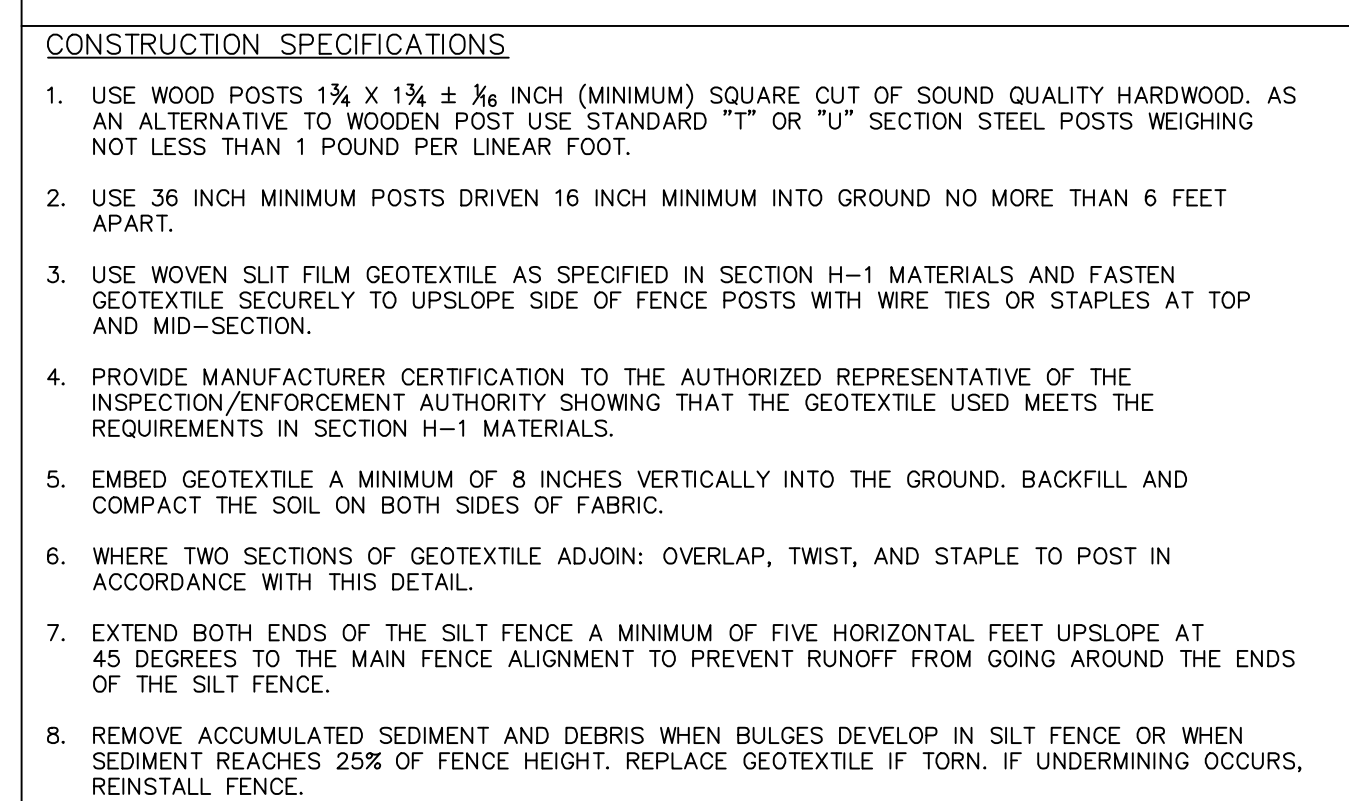
REVISIONS:	DATE	DESCRIPTION

Sippo Reserves Allotment Phases 3 & 4
Schematic Plan Phase 4
City of Massillon
Stark County, Ohio

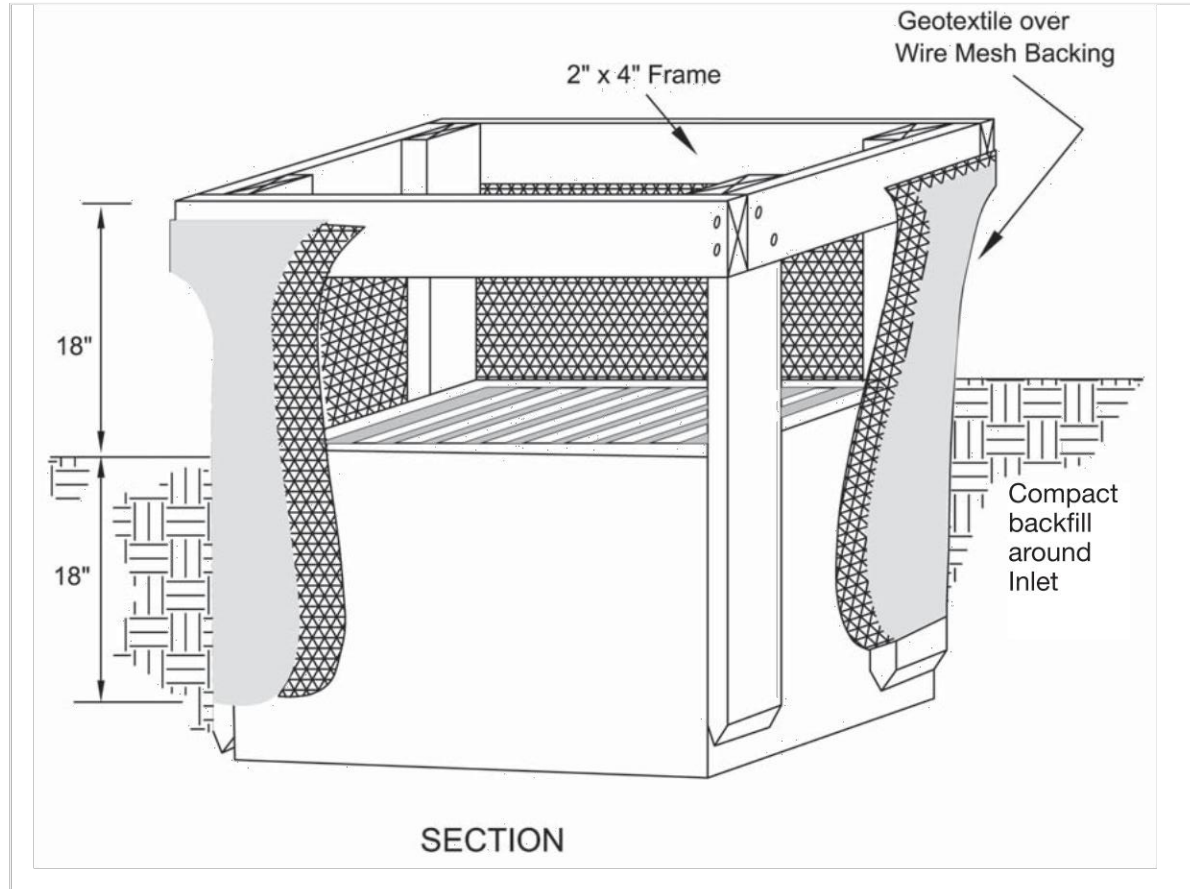


DRAWING NAME:
Sippo Sch Ph 4

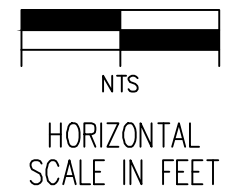
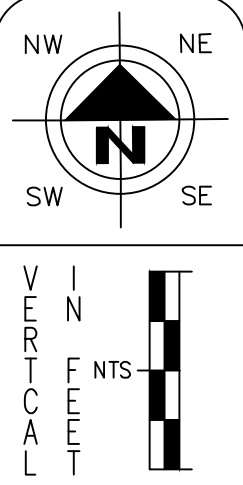
REF. NUMBER:



Specifications
for
Geotextile Inlet Protection



1. Inlet protection shall be constructed either before upslope land disturbance begins or before the inlet becomes functional.
2. The earth around the inlet shall be excavated completely to a depth at least 18 inches.
3. The wooden frame shall be constructed of 2-inch by 4-inch construction grade lumber. The 2-inch by 4-inch posts shall be driven one (1) ft. into the ground at four corners of the inlet and the top portion of 2-inch by 4-inch frame assembled using the overlap joint shown. The top of the frame shall be at least 6 inches below adjacent roads if ponded water will pose a safety hazard to traffic.
4. Wire mesh shall be of sufficient strength to support fabric with water fully impounded against it. It shall be stretched tightly around the frame and fastened securely to the frame.
5. Geotextile material shall have an equivalent opening size of 20-40 sieve and be resistant to sunlight. It shall be stretched tightly around the frame and fastened securely. It shall extend from the top of the frame to 18 inches below the inlet notch elevation. The geotextile shall overlap across one side of the inlet so the ends of the cloth are not fastened to the same post.
6. Backfill shall be placed around the inlet in compacted 6-inch layers until the earth is even with notch elevation on ends and top elevation on sides.
7. A compacted earth dike or check dam shall be constructed in the ditch line below the inlet if the inlet is not in a depression. The top of the dike shall be at least 6 inches higher than the top of the frame.



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DATE:
Mar. 2023
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JTD
DATE:
Mar. 2023

REVISIONS:	
DATE	DESCRIPTION

Sippo Reserves Allotment Phases 3 - 4
SWP3 Details & Notes
City of Massillon
Stark County, Ohio



DRAWING NAME:
SWP3 Details&Notes
PROJECT NUMBER: