

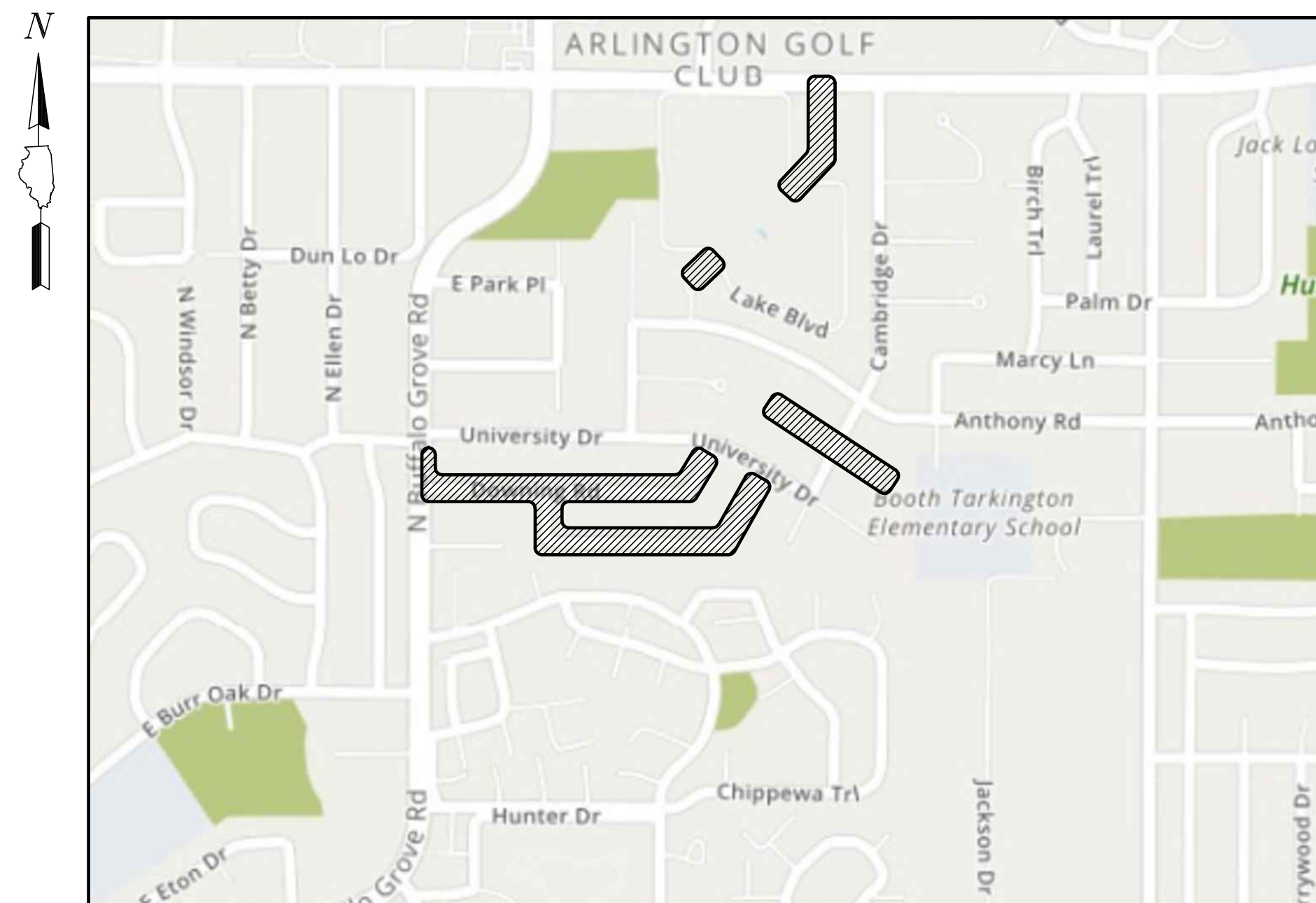
2020 SAXON/DOWNING WATER & STREET IMPROVEMENTS

VARIOUS LOCATIONS

VILLAGE OF BUFFALO GROVE, ILLINOIS 60089

STANDARD SYMBOLS

FEATURE	EXISTING	PROPOSED
BUFFALO BOX		
BUSH/SHRUB		
CATCH BASIN		
CLEANOUT		
COMBINE SEWER LINE		
CONTOUR		
CULVERT		
DITCH/SWALE		
ELECTRIC LINE		
ELECTRIC MANHOLE		
FENCE		
FIRE HYDRANT		
FLARED END SECTION		
GAS LINE		
GAS MANHOLE		
GAS VALVE		
INLET		
LIGHT POLE		
OVERHEAD WIRES		
POWER POLE		
R.O.W LINE		
R.O.W MARKER		
SANITARY FORCEMAIN LINE		
SANITARY SEWER LINE		
SANITARY SEWER MANHOLE		
SIGN		
SPOT ELEVATION		
STORM SEWER LINE		
STORM SEWER MANHOLE		
TELEPHONE LINE		
TELEPHONE MANHOLE		
TELEPHONE BOX/PEDESTAL		
TREE-CONIFEROUS (SIZE/TAG#)		
TREE-DECIDUOUS (SIZE/TAG#)		
VALVE BOX		
VALVE VAULT		
WATER VALVE		
WATERMAIN LINE		



LOCATION MAP
(Not to Scale)

BENCHMARK:

VBG BM 41
3D ROD MONUMENT SET IN EMERICH EAST PARK NEAR ENTRANCE DRIVE OFF OF LAKE COOK ROAD, UNDER ACCESS COVER MARKED AS GPS CONTROL MONUMENT - VBG - 1B
ELEVATION: 676.01 FEET
DATUM: NAVD '88

VBG BM 76
BRASS MONUMENT SET IN CONCRETE IN THE ISLAND OF CHARLES COURT AND 300 FEET EAST OF CAMBRIDGE DRIVE, 18 FEET NORTH OF THE CENTERLINE OF CHARLES COURT AND 4 FEET SOUTH OF THE BACK OF CURB ON THE NORTH SIDE OF THE ISLAND.
ELEVATION: 673.61 FEET
DATUM: NAVD '88

PROJECT LOCATION

SAXON PLACE, DOWNING ROAD
SELWYN LANE, CHARLES COURT
ANTHONY COURT
VILLAGE OF BUFFALO GROVE, ILLINOIS

TOPOGRAPHIC SURVEY BY:

GEWALT HAMILTON ASSOCIATES, INC.
625 FOREST EDGE DRIVE
VERNON HILLS, ILLINOIS 60061
TELEPHONE: 847-478-9700

PLANS PREPARED FOR:

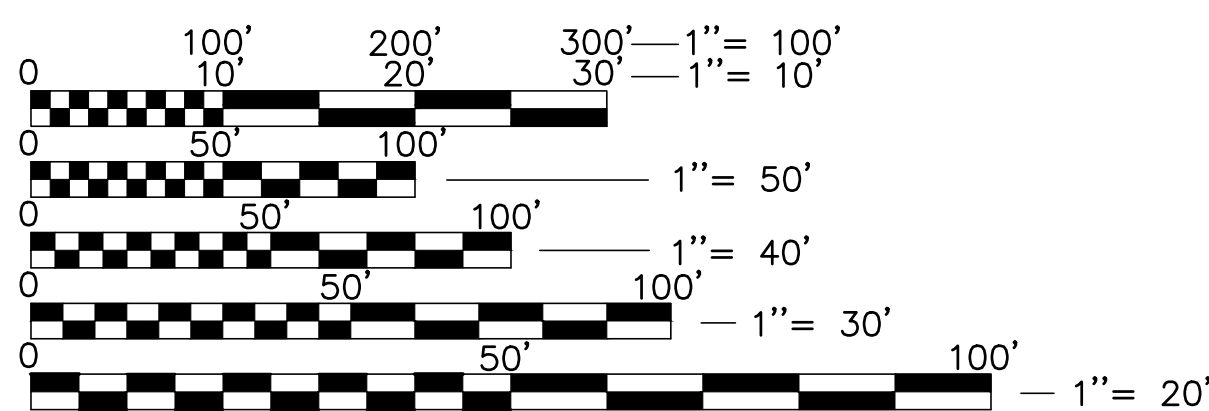
VILLAGE OF BUFFALO GROVE
50 RAUPP BOULEVARD
BUFFALO GROVE, ILLINOIS 60089
TELEPHONE: 847-459-2500

COORDINATING/PERMITTING AGENCIES:

COOK COUNTY DEPARTMENT OF TRANSPORTATION AND HIGHWAY	312-603-1670
ILLINOIS DEPARTMENT OF TRANSPORTATION	847-705-4131
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY PUBLIC WATER SUPPLY	217-782-1724
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY WATER POLLUTION CONTROL	217-782-3397
VILLAGE OF BUFFALO GROVE (ENGINEERING DEPARTMENT)	847-459-2523

SHEET INDEX

1. TITLE SHEET
2. SUMMARY OF QUANTITIES AND SEQUENCING
3. GENERAL NOTES
4. TYPICAL SECTIONS
5. SAXON PLACE
6. DOWNING ROAD STATION 20+00 - 25+00
7. DOWNING ROAD STATION 25+00 - 30+00
8. DOWNING ROAD STATION 30+00 - 34+00
9. DOWNING ROAD STATION 34+00 - 37+59
10. SELWYN LANE STATION 41+50 - 47+00
11. SELWYN LANE STATION 47+00 - 52+00
12. SELWYN LANE STATION 52+00 - 57+09
13. CHARLES COURT STATION 0+00 - 4+00
14. CHARLES COURT STATION 4+00 - 7+75
15. ALTERNATE #1 - ANTHONY COURT
16. TRAFFIC CONTROL PLAN - DOWNING ROAD
17. DETAILS
18. VILLAGE OF BUFFALO GROVE DETAILS



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

NOTE: CONSTRUCTION MEANS, METHODS AND JOB SITE SAFETY IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR

J.U.L.I.E

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION CALL 811



Know what's below.
Call before you dig.

ISSUED FOR BID

GHA GEWALT HAMILTON ASSOCIATES, INC.
625 Forest Edge Drive ■ Vernon Hills, IL. 60061
TEL 847.478.9700 ■ FAX 847.478.9701

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TITLE SHEET
2020 SAXON/DOWNING WATER & STREET IMPROVEMENTS
VARIOUS LOCATIONS
VILLAGE OF BUFFALO GROVE, ILLINOIS 60089

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE: 4798.043 PR-1.dwg	SHEET NUMBER:
DRAWN BY: PCL DATE: 02/13/20	GHA PROJECT # 4798.043
CHECKED BY: LXM DATE: 02/13/20	SCALE: N.T.S.
	1 OF 19 SHEETS

SUMMARY OF QUANTITIES - BASE BID

SP	ITEM NO	DESCRIPTION	UNIT	QUANTITY	Saxon Place	Downing Road	Selwyn Lane	Eton Court	Charles Court
	1	TREE TRUNK PROTECTION	EA	15.0	15.0	6.0	4.5	11.0	24.0
	2	TREE ROOT PRUNING	EA	165.0	5.0	4.0	3.0	7.0	20.0
	3	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CY	220.0	25.0	8.0	7.0	25.0	20.0
*	4	TRENCH BACKFILL, COARSE AGGREGATE, CA-11 (SPECIAL)	CY	4,755.0	275.0	1,730.0	1,740.0	360.0	650.0
	5	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SY	640.0	75.0	245.0	200.0	60.0	60.0
*	6	GENERAL LANDSCAPE RESTORATION (SPECIAL)	SY	3,475.0	255.0	1,580.0	930.0	260.0	440.0
	7	MOWING	EA	4.8	0.4	1.6	1.2	0.8	0.8
	8	SUPPLEMENTAL WATERING	UN	16.0	2.0	6.5	5.0	1.0	1.5
	9	TEMPORARY EROSION CONTROL SEEDING	SY	3,475.0	255.0	1,580.0	930.0	260.0	440.0
*	10	(TEMPORARY) MULCH METHOD 3	SY	3,475.0	255.0	1,580.0	930.0	260.0	440.0
	11	INLET FILTERS	EA	23.0	2.0	7.0	7.0	2.0	2.0
*	12	AGGREGATE SUBGRADE IMPROVEMENT	CY	220.0	25.0	8.0	7.0	25.0	20.0
*	13	AGGREGATE BASE COURSE, TYPE B VARIES (SPECIAL)	TN	4,255.0	220.0	1,785.0	1,300.0	320.0	630.0
	14	PREPARATION OF BASE	SY	12,360.0	1,425.0	4,670.0	3,895.0	1,130.0	1,240.0
	15	BITUMINOUS MATERIALS (TACK COAT)	LB	835.0					835.0
	16	HOTMIX ASPHALT REMOVAL - BUTT JOINT	SY	30.0					30.0
	17	POLYMERIZED HOTMIX ASPHALT BINDER COURSE, IL-4.75, N50	TN	55.0					55.0
*	18	HOTMIX ASPHALT BINDER COURSE (SPECIAL)	TN	1,780.0	255.0	670.0	590.0	165.0	180.0
*	19	HOTMIX ASPHALT SURFACE COURSE (SPECIAL)	TN	1,545.0	180.0	535.0	440.0	130.0	280.0
	20	BITUMINOUS MATERIALS (TACK COAT)	LB	2,800.0	320.0	1,055.0	880.0	280.0	285.0
*	21	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING, 8"	SY	20.0	10.0				10.0
	22	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SY	270.0	50.0	80.0	50.0	25.0	65.0
	23	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SF	4,255.0	670.0	2,065.0	865.0		400.0
*	24	DETECTABLE WARNING	SF	60.0	32.0	28.0			
*	25	DETECTABLE WARNING (FURNISHED BY OTHERS)	SF	20.0		20.0			
*	26	PAVEMENT REMOVAL	SY	12,360.0	1,425.0	4,670.0	3,895.0	1,130.0	1,240.0
	27	HOTMIX ASPHALT SURFACE REMOVAL, 2 3/4"	SY	1,230.0					1,230.0
*	28	DRIVEWAY PAVEMENT REMOVAL	SY	270.0	50.0	80.0	50.0	25.0	65.0
	29	COMBINATION CURB AND GUTTER REMOVAL	FT	1,245.0	180.0	420.0	240.0	85.0	320.0
	30	SIDEWALK REMOVAL	SF	4,270.0	595.0	2,065.0	865.0	315.0	400.0
	31	CLASS B PATCHES, TYPE IV, 10 INCH	SY	115.0		115.0			
	32	CLASS D PATCHES, TYPE IV, 5 INCH	SY	435.0					435.0
	33	TIE BARS 3/4"	EA	60.0		60.0			
*	34	WATER MAIN 8"	FT	25.0					25.0
*	35	WATER MAIN 8"	FT	4,480.0	400.0	1,745.0	1,370.0	265.0	670.0
*	36	WATER MAIN 10"	FT	20.0					20.0
*	37	WATER MAIN 12"	FT	195.0		195.0			
*	38	WATER VALVES 8"	EA	8.0	2.0	3.0	1.0		2.0
*	39	WATER VALVES 10"	EA	2.0					2.0
*	40	FIRE HYDRANTS TO BE REMOVED	EA	11.0	1.0	4.0	3.0	1.0	2.0
*	41	FIRE HYDRANT EXTENSION	FT	20.0	2.0	4.0	6.0	4.0	4.0
	42	PIPE UNDERDRAINS, 4" (SPECIAL)	FT	1,400.0	200.0	700.0	500.0		
	43	VALVE VAULT, TYPE A, 5-DIAMETER, TYPE 1 FRAME, CLOSED LID	EA	10.0	2.0	3.0	2.0	1.0	4.0
	44	FRAMES AND LIDS, TYPE 1, CLOSED LID	EA	1.0		1.0			
	45	REMOVING INLETS	EA	5.0	1.0	3.0	1.0		
*	46	CONCRETE CURB, TYPE B (SPECIAL)	FT	270.0	90.0				180.0
*	47	COMBINATION CONCRETE CURB AND GUTTER, TYPE M (MODIFIED) (SPECIAL)	FT	940.0	55.0	420.0	240.0	85.0	140.0
*	48	COMBINATION CONCRETE CURB AND GUTTER, TYPE B & 12 (SPECIAL)	FT	20.0	20.0				
*	49	COMBINATION CONCRETE CURB AND GUTTER, TYPE B & 24 (SPECIAL)	FT	20.0	20.0				
*	50	NON-SPECIAL WASTE DISPOSAL	CY	100.0	100.0				
*	51	SPECIAL WASTE GROUNDWATER DISPOSAL	GAL	2,500.0	2,500.0				
*	52	SOIL DISPOSAL ANALYSIS	EA	1.0	1.0				
*	53	REGULATED SUBSTANCES PRE CONSTRUCTION PLAN	LS	1.0	1.0				
*	54	ON-SITE MONITORING OF REGULATED SUBSTANCES	CAL DA	2.0	2.0				
*	55	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LS	1.0	1.0				
	56	MOBILIZATION	LS	1.0	0.2	0.2	0.2	0.2	0.2
	57	CHANGEABLE MESSAGE SIGN	CAL DA	28.0		14.0	14.0		
*	58	STORM SEWER CONNECTION (SPECIAL)	EA	16.0	2.0	8.0	6.0		
*	59	SANITARY SEWER CONNECTION (SPECIAL)	EA	2.0	2.0				
*	60	VALVE VAULTS TO BE ABANDONED	EA	5.0	1.0	1.0	1.0		2.0
*	61	FIRE HYDRANT ASSEMBLY, COMPLETE	EA	17.0	1.0	7.0	4.0	1.0	4.0
*	62	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	EA	5.0	1.0	3.0	1.0		
*	63	SANITARY MANHOLES TO BE ADJUSTED	EA	2.0		2.0			
*	64	VALVE VAULTS TO BE REMOVED	EA	2.0		1.0		1.0	
*	65	VALVE BOX	EA	2.0	1.0				1.0
*	66	VALVE BOXES TO BE REMOVED	EA	1.0		1.0			
	67	PAINT PAVEMENT MARKING - LINE 6"	FT	160.0	70.0	90.0			
*	68	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	LS	1.0	0.2	0.2	0.2	0.2	0.2
*	69	DETOUR SIGNING	LS	1.0		1.0			
*	70	CUT AND CAP EXISTING WATER MAIN	EA	5.0	2.0	2.0	1.0		
*	71	CONNECTION TO EXISTING WATER MAIN (NON-PRESSURE) - 6"	EA	1.0		1.0			
*	72	CONNECTION TO EXISTING WATER MAIN (NON-PRESSURE) - 8"	EA	1.0	1.0				
*	73	CONNECTION TO EXISTING WATER MAIN (NON-PRESSURE) - 10"	EA	2.0		1.0	1.0		
*	74	CONNECTION TO EXISTING WATER MAIN (NON-PRESSURE) - 12"	EA	1.0		1.0			
*	75	INLETS TO BE ADJUSTED WITH NEW TYPE 11 FRAME AND GRATE	EA	4.0	1.0	3.0			
*	76	DRAINAGE STRUCTURES TO BE ADJUSTED	EA	3.0		1.0	2.0		
*	77	TEMPORARY INFORMATION SIGNING	SF	156.0	26.0	52.0	26.0		52.0
*	78	PRESSURE CONNECTION 8" x 8"	EA	1.0					1.0
*	79	PRESSURE CONNECTION 8" x 8"	EA	1.0	1.0				
*	80	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 12"	FT	175.0	30.0	95.0	50.0		
*	81	SANITARY SEWER 8"	FT	35.0	35.0				
*	82	EXPLORATION EXCAVATION (SPECIAL)	EA	31.0	3.0	11.0	9.0	1.0	7.0
*	83	FURNISH AND INSTALL EXTERNAL CHIMNEY SEAL (SPECIAL)	EA	5.0		3.0	1.0		
*	84	ADJUSTING SANITARY/STORM SERVICES, 8-INCH DIAMETER OR LESS (SPECIAL)	FT	460.0	300	170.0	130.0	40.0	80.0
*	85	SANITARY/STORM SEWER TO BE REMOVED, 18-INCH DIAMETER OR LESS (SPECIAL)	FT	210.0	65.0	95.0	50.0		
*	86	BUFFALO BOX FRAME & LID (SPECIAL)	EA	22.0	2.0	6.0	6.0	2.0	6.0
*	87	WATER SERVICE, TYPE K COPPER, 1" (SPECIAL)	FT	3,930.0	590.0	1,155.0	1,065.0	265.0	945.0
*	88	WATER SERVICE, CONNECT EXISTING, COMPLETE (SPECIAL)	EA	118.0	14.0	41.0	37.0	5.0	21.0
*	89	WATER SERVICE, TAP, 1" COMPLETE (SPECIAL)	EA	118.0	14.0	41.0	37.0	5.0	21.0
*	90	ABANDON EXISTING WATER MAIN (SPECIAL)	CY	38.0	3.0	16.0	11.0	3.0	5.0
*	91	TEMPORARY PAVEMENT	TN	25.0		25.0			15.0
*	92	CLASS D PATCHES, TYPE IV, 5 INCH (SPECIAL)	SY	155.0		25.0	25.0		105.0
*	93	CLASS D PATCHES, TYPE II, 12 INCH (SPECIAL)	SY	10.0	10.0				
*	94	REMOVE AND STACK BRICK PAVEMENT DRIVEWAY PAVEMENT (SPECIAL)	SF	80.0			80.0		

SUMMARY OF QUANTITIES - ALTERNATE 01

SP	ITEM NO	DESCRIPTION	UNIT	QUANTITY	Saxon Place	Anthony Court
*	ALT 1	TREE TRUNK PROTECTION	EA	10.0	5.0	5.0
*	ALT 2	TRENCH BACKFILL, COARSE AGGREGATE, CA-11 (SPECIAL)	CY	360.0	185.0	265.0
*	ALT 3	GENERAL LANDSCAPE RESTORATION (SPECIAL)	SY	285.0	85.0	200.0
	ALT 4	MOWING	EA	0.2		0.2
	ALT 5	SUPPLEMENTAL WATERING	UN	0.5		0.5
	ALT 6	TEMPORARY EROSION CONTROL SEEDING	SY	285.0	85.0	200.0
*	ALT 7	(TEMPORARY) MULCH METHOD 3	SY	285.0	85.0	200.0
	ALT 8	INLET FILTERS	EA	4.0		4.0
*	ALT 9	AGGREGATE BASE COURSE, TYPE B VARIES (SPECIAL)	TN	185.0	70.0	115.0
	ALT 10	COMBINATION CURB AND GUTTER REMOVAL	FT	170.0	30.0	140.0
	ALT 11	STORM SEWERS, RUBBER GASKET, CLASS B, TYPE 2 2/4"	FT	25.0		25.0
*	ALT 12	WATER MAIN 8"	FT	210.0	50.0	160.0
*	ALT 13	WATER MAIN 8" (DIRECTIONAL DRILLED)	FT	355.0	170.0	185.0
*	ALT 14	WATER VALVES 8"	EA	3.0	1.0	2.0
*	ALT 15	WATER VALVES 10"	EA	1.0		1.0
*	ALT 16	VALVE VAULT, TYPE A, 9-DIAMETER, TYPE 1 FRAME, CLOSED LID	EA	4.0	1.0	3.0
*	ALT 17	CONCRETE CURB, TYPE B (SPECIAL)	FT	30.0		30.0
*	ALT 18	COMBINATION CONCRETE CURB AND GUTTER, TYPE M (MODIFIED) (SPECIAL)	FT	140.0	30.0	110.0
	ALT 19	MOBILIZATION	LS	1.0	0.5	0.5
*	ALT 20	STORM SEWER CONNECTION (SPECIAL)	EA	2.0		2.0
*	ALT 21	CLEARING AND GRUBBING	LS	1.0	1.0	
*	ALT 22	VALVE VAULTS TO BE ABANDONED	EA	1.0		1.0
*	ALT 23	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	LS	1.0	0.5	0.5
*	ALT 24	CUT AND CAP EXISTING WATER MAIN	EA	4.0	2.0	2.0
*	ALT 25	CONNECTION TO EXISTING WATER MAIN (NON-PRESSURE) - 8"	EA	4.0	2.0	2.0
*	ALT 26	PRESSURE CONNECTION 8" x 8"	EA	1.0		1.0
*	ALT 27	EXPLORATION EXCAVATION (SPECIAL)	EA	6.0	2.0	4.0
*	ALT 28	SANITARY/STORM SEWER TO BE REMOVED, GREATER THAN 18-INCH DIAMETER (SPECIAL)	FT	25.0		25.0
*	ALT 29	ABANDON EXISTING WATER MAIN (SPECIAL)	CY	6.0	1.0	5.0
*	ALT 30	CLASS D PATCHES, TYPE IV, 5 INCH (SPECIAL)	SY	415.0		45.0
*	ALT 31	REMOVE AND REPLACE WOOD FENCE	FT	60.0	30.0	30.0

SEQUENCING NOTES:

THE FOLLOWING RECOMMENDED CONSTRUCTION SEQUENCING SHALL SERVE THE PURPOSE ONLY AS A GENERAL OUTLINE FOR THE CONTRACTOR TO USE TO COMPLETE THEIR DETAILED CONSTRUCTION SCHEDULE. ANY AND ALL CHANGES OR REVISIONS SHALL BE APPROVED BY THE ENGINEER BEFORE WORK IS ANTICIPATED TO COMMENCE.

- PLACE TEMPORARY INFORMATION SIGNS SEVEN (7) CALENDAR DAYS PRIOR TO CONSTRUCTION COMMENCEMENT ON EACH RESPECTIVE STREET SEGMENT.
- FURNISH AND INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.
- FURNISH AND INSTALL TREE PROTECTION AND PERFORM TREE ROOT PRUNING AS SHOWN ON THE PLANS AND AS MARKED BY THE ENGINEER.
- PERFORM SAW CUTTING OPERATIONS OR PULVERIZE THE PAVEMENT IN-PLACE AT LOCATIONS WHERE PROPOSED UTILITIES ARE TO BE INSTALLED. SAW CUT SLURRY SHALL BE IMMEDIATELY AND THOROUGHLY CLEANED OFF THE PAVEMENT TO PREVENT TRACKING.
- INSTALL NEW WATER MAIN AND UTILITY IMPROVEMENTS.
- REMOVE AND REPLACE EXISTING COMBINATION CONCRETE CURB AND GUTTER, PORTLAND CEMENT CONCRETE SIDEWALK, AND DRIVEWAYS AS MARKED BY THE ENGINEER.
- REMOVE EXISTING PAVEMENT, AT THE DEPTH SPECIFIED PER THE TYPICAL SECTIONS.
- PREPARE THE EXISTING AGGREGATE BASE COURSE, AND COMPLETE ANY REQUIRED REPAIRS AS DIRECTED BY THE ENGINEER.
- PLACE HOT-MIX ASPHALT BINDER COURSE WITHIN FOURTEEN (14) CALENDAR DAYS FROM THE BEGINNING OF PAVEMENT REMOVAL OPERATIONS ON EACH STREET SEGMENT.
- REMOVE TEMPORARY EROSION CONTROL MEASURES AND TREE PROTECTION FENCING.
- COMPLETE ALL GENERAL LANDSCAPE RESTORATION.
- PLACE HOT-MIX ASPHALT SURFACE COURSE.
- PERFORM STREET SWEEPING OPERATIONS WITHIN THE PROJECT LIMITS AND ADJACENT ROADWAYS.
- REMOVE TEMPORARY TRAFFIC CONTROL AND PROTECTION MEASURES.

- DAY-ONLY LANE CLOSURES WILL BE PERMITTED; HOWEVER, TWO-WAY TRAFFIC SHALL BE MAINTAINED THROUGH THE USE OF FLAGGERS IN ACCORDANCE WITH APPLICABLE IDOT HIGHWAY STANDARDS.
- WORK SHALL BE SCHEDULED SO THAT IT IS CONTINUOUS ON EACH RESPECTIVE STREET SEGMENT.

DOWNING ROAD, ETON COURT, SELWYN LANE - SEQUENCING NOTES:

THE WORK ON DOWNING ROAD, ETON COURT, AND SELWYN LANE SHALL ADHERE TO THE FOLLOWING SUPPLEMENTAL CONDITIONS:

- THE CONTRACTOR SHALL BEGIN WORK AND INSTALL THE PROPOSED WATER MAIN FROM UNIVERSITY DRIVE.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH ANY OTHER CONSTRUCTION CONTRACTORS NEARBY.
- NO CONSTRUCTION TRAFFIC SHALL BE ALLOWED ON UNIVERSITY DRIVE UNTIL SEVEN (7) CALENDAR DAYS AFTER HOT-MIX ASPHALT SURFACE COURSE HAS BEEN INSTALLED ON UNIVERSITY DRIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION TRAFFIC COORDINATION UNTIL THIS REQUIREMENT HAS BEEN MET AND APPROVED BY THE ENGINEER. ANY APPLICABLE COSTS ASSOCIATED WITH ADHERING TO THIS CONDITION WILL BE CONSIDERED INCLUDED IN THE CONTRACTS VARIOUS PAY ITEMS.

SAXON PLACE - SEQUENCING NOTES:

THE WORK ON SAXON PLACE AND WITHIN THE CAMBRIDGE SUBDIVISION MUST BE PHASED AS FOLLOWS.

- THE CONTRACTOR SHALL BEGIN WORK AND INSTALL THE PROPOSED WATER MAIN FROM VB#1 TO VV#3 INCLUDING FH#1 WITH A CAP ON THE PROPOSED TEE.
- THIS SECTION OF MAIN MUST BE PRESSURE TESTED, CHLORINATED AND HAVE THE WATER SERVICES TRANSFERRED OVER FLUSHING FROM FH#1.
- IF ALTERNATE #1 IS APPROVED, THE EXISTING MAIN BETWEEN SAXON PLACE AND THE CAMBRIDGE SUBDIVISION WILL BE ABANDONED AND FILLED IN PLACE. THIS WILL BE DONE BY INSTALLATION OF THE CUT AND CAP WITHIN THE SAXON PLACE CUL-DE-SAC AND INSTALLATION WITH IMMEDIATE CLOSURE OF THE EXISTING VALVES ON LAKE BOULEVARD.
- IF ALTERNATE #1 IS APPROVED, WITH THE ABANDONED EXISTING MAIN IN PLACE, THE CONTRACTOR SHALL DIRECTIONALLY DRILL THE NEW WATER MAIN AND MAKE ALL REQUIRED CONNECTIONS TO THE EXISTING WATER MAIN NEAR THE EXISTING VALVES ON LAKE BOULEVARD. ONCE THE CONNECTIONS ARE COMPLETE THE LINE SHALL BE PRESSURE TESTED AND CHLORINATED. FLUSHING SHALL BE THROUGH FH#1 PERFORMED WITH OPENING VALVE #3 AND THE EXISTING VALVES ON LAKE BOULEVARD AS REQUIRED BY THE ENGINEER.
- IF ALTERNATE #1 IS NOT APPROVED, THE PROPOSED WATER MAIN SHALL BE INSTALLED AND CONNECTED TO THE EXISTING WATER MAIN ON SAXON PLACE.

- ALL WORK ON AND ADJACENT TO THE CAMBRIDGE SUBDIVISION ROADWAY OR DUNDEE ROADWAY SHALL BE COMPLETE, INCLUDING RESTORATION, WITHIN TWO CALENDAR WEEKS OF INITIAL DISTURBANCE. FAILURE TO COMPLETE THIS WORK WITHIN TWO WEEKS OF STARTING WILL BE CAUSE FOR LIQUIDATED DAMAGES OF \$2,500 PER DAY AND WILL BE APPLIED ACCORDING TO THE STANDARD SPECIFICATIONS.

- ONLY ONE TEMPORARY ROADWAY CLOSURE SHALL BE ALLOWED AT A TIME TO COMPLETE ALL WORK ON AND ADJACENT TO THE CAMBRIDGE SUBDIVISION ROADWAY. WORK SHALL BE SCHEDULED SO THAT IT IS CONTINUOUS FOR EITHER ANTHONY COURT OR SAXON PLACE.

- IF ANY TEMPORARY SERVICES ARE REQUIRED TO STAGE THE CONSTRUCTION AS NOTED ABOVE THE CONTRACTOR SHALL NOTIFY THE VILLAGE A MINIMUM OF 24 HOURS AHEAD OF WATER MAIN SHUT DOWNS FOR INSTALLATION OF A TEMPORARY WATER SERVICE.

- ALL WORK ADJACENT TO DUNDEE ROADWAY SHALL BE COMPLETED DURING THE HOURS SPECIFIED ON THE IDOT PERMIT.

ANTHONY COURT - SEQUENCING NOTES:

THE WORK ON ANTHONY COURT AND WITHIN THE CAMBRIDGE SUBDIVISION MUST BE PHASED AS FOLLOWS.

- THE CONTRACTOR SHALL BEGIN WORK AND INSTALL THE PROPOSED WATER MAIN FROM VB#23 TO VV#26 INCLUDING FH#24 WITH A CAP ON THE PROPOSED TEE.
- THIS SECTION OF MAIN MUST BE PRESSURE TESTED, CHLORINATED AND HAVE THE WATER SERVICES TRANSFERRED OVER FLUSHING FROM FH#24.
- THE EXISTING MAIN BETWEEN ANTHONY COURT AND THE CAMBRIDGE SUBDIVISION WILL BE ABANDON

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE PERFORMED ACCORDING TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" LATEST EDITION, THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" LATEST EDITION, THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" LATEST EDITION, THE ILLINOIS PLUMBING CODE, THE DETAILS IN THESE PLANS, THE CONTRACT DOCUMENTS, ALL APPLICABLE REQUIREMENTS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, THE IEPA AND ORDINANCES OF AUTHORITIES HAVING JURISDICTION AND ALL ADDENDA THERETO.
- EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL WILL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE CONTRACT. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE PRIOR TO ORDERING MATERIALS. IN ADDITION, THE CONTRACTOR MUST VERIFY THE LINE AND GRADES. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSION OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS/HER OWN RISK AND EXPENSE AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ANY COSTS INCURRED..
- ALL PAVEMENT DIMENSIONS ARE SHOWN TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE THE MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 72 HOURS PRIOR TO BEGINNING WORK.
- IF DURING CONSTRUCTION THE CONTRACTOR ENCOUNTERS OR OTHERWISE BECOMES AWARE OF ANY SEWERS OR UNDERDRAINS OTHER THAN THOSE SHOWN ON THE PLANS, HE/SHE SHALL INFORM THE ENGINEER, WHO SHALL DIRECT THE WORK NECESSARY TO MAINTAIN OR REPLACE THE FACILITIES IN SERVICE AND TO PROTECT THEM FROM DAMAGE DURING CONSTRUCTION IF MAINTAINED. EXISTING FACILITIES TO BE MAINTAINED THAT ARE DAMAGED BECAUSE OF NON-COMPLIANCE WITH THIS PROVISION SHALL BE REPLACED AT THE CONTRACTOR'S OWN EXPENSE.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY TOILET FACILITIES AND HAND SANITIZING STATIONS FOR THE USE OF ALL THE CONTRACTORS PERSONNEL EMPLOYED ON THE WORK SITE. THE FACILITIES SHALL BE MAINTAINED IN PROPER SANITARY CONDITION THROUGHOUT THE PROJECT. THE LOCATION OF THE TEMPORARY FACILITIES SHALL BE APPROVED BY THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE NPDES PERMIT AND SWPPP MANUAL. IF NO NPDES PERMIT OR SWPPP MANUAL IS NEEDED FOR THE PROJECT THE CONTRACTOR SHALL PERFORM SOIL EROSION SEDIMENT CONTROL BEST PRACTICES OR AS DIRECTED BY THE OWNER TO PREVENT ILLICIT DISCHARGES FROM THE SITE.

UTILITY NOTES

- UNDERGROUND WORK SHALL INCLUDE TRENCHING, DISPOSAL OF EXCESS MATERIAL, DEWATERING, INSTALLATION OF PIPE, CASTINGS, STRUCTURES, BACKFILLING OF TRENCHES AND COMPACTION, AND TESTING AS SHOWN ON THE CONSTRUCTION PLANS. FITTINGS AND ACCESSORIES NECESSARY TO COMPLETE THE WORK MAY NOT BE SPECIFIED BUT SHALL BE CONSIDERED AS INCLUDED TO THE COST OF THE CONTRACT. ALL SEWER SHALL BE INSTALLED USING A LASER AND BEGIN AT THE DOWNSTREAM END.
- MACHINE CORE ALL CONNECTIONS TO EXISTING STRUCTURES USING A CORE DRILL. HAMMERING OR SAWING OF STRUCTURES WILL NOT BE ALLOWED.
- SANITARY SERVICE CONNECTIONS TO NEW SEWERS SHALL BE MADE WITH WYE BRANCHES. WYE BRANCHES SHALL BE FACTORY MANUFACTURED PERMANENTLY AFFIXED TO THE MAIN SEWER. TEE BRANCHES ARE NOT ALLOWED.
- ALL CONNECTIONS TO EXISTING SANITARY MANHOLES SHALL BE INSTALLED WITH A NEOPRENE BOOT SECURED WITH DOUBLE STAINLESS STEEL STRAPS MEETING THE REQUIREMENTS OF ASTM C-923.
- ALL CONNECTIONS TO EXISTING OR DISSIMILAR STORM/SANITARY LINES SHALL BE DONE WITH STAINLESS STEEL NON-SHEAR COUPLINGS.
- STONE BEDDING AND BACKFILL SHALL BE OMITTED FOR A DISTANCE OF 15 FEET UP AND DOWNSTREAM OF SEWERS DRAINING TO OR FROM PONDS OR STREAMS. THE REPLACED BEDDING SHALL BE SILTY CLAY SOIL MECHANICALLY COMPACTED TO 90% MODIFIED PROCTOR DENSITY. THE USE OF PERMEABLE SOILS WILL NOT BE PERMITTED.
- ALL WATER MAIN SHALL HAVE MECHANICAL RESTRAINED TYPE JOINTS AT ALL CONNECTIONS AND FITTINGS. IN ADDITION, ALL HARDWARE SHALL BE STAINLESS STEEL.
- THRUST BLOCKING SHALL BE PROVIDED ON WATER MAIN AT ALL BENDS, TEES, ELBOWS, ETC. INDIVIDUAL INSPECTION FOR ALL THRUST BLOCKING IS REQUIRED. THRUST BLOCKING SHALL BE POURED IN PLACE CONCRETE. PRECAST BLOCKS MAY BE USED AS APPROVED BY THE ENGINEER IN THE FIELD.
- ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER. ALL DOWNSPOUTS, SIDE YARD DRAINS, AND OUTSIDE DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM. FOOTING DRAINS SHALL FIRST DRAIN TO A SUMP PIT.
- BUILDING STORM SEWER SERVICE PIPE SHALL NOT BE LESS THAN THE DIAMETER OF THE PLUMBING PIPE FROM THE BUILDING, BUT NOT LESS THAN 6 INCHES. THE PIPE SHALL HAVE A MINIMUM SLOPE OF 1/8-INCH PER FOOT, BUT NOT MORE THAN 1/2-INCH PER FOOT. CHANGES OF DIRECTION OF SERVICE PIPE SHALL BE MADE WITH COMBINATIONS OF 22-1/2 DEGREE BENDS WHEREVER PRACTICABLE, WITH NOT LESS THAN 2 FEET OF STRAIGHT PIPE BETWEEN SUCH BENDS. RIGHT ANGLE (90 DEGREE) BENDS WILL NOT BE ALLOWED. WHEN A SERVICE LINE EXCEEDS 100 FEET IN LENGTH, A CLEANOUT SHALL BE PROVIDED AT A LOCATION DESIGNATED BY THE ENGINEER. THE CLEANOUT SHALL BE PROPERLY SEALED, WITH THE TOP OF THE PLUGGED RISER FLUSH WITH FINISHED GRADE.

PROJECT SPECIFIC NOTES

- ALL CONSTRUCTION WILL BE INSPECTED BY THE OWNER'S REPRESENTATIVE. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE MUNICIPALITIES CODE AS WELL AS THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL INDEMNIFY THE OWNER, ENGINEER, THE MUNICIPALITY AND THEIR AGENTS, FROM ALL LIABILITY INVOLVED IN CONSTRUCTION, INSTALLATION AND TESTING OF THE WORK ON THIS PROJECT.
- THE CONTRACTOR MUST CARRY INSURANCE IN ACCORDANCE WITH THE SPECIFICATIONS. ALL OFFICIALS, EMPLOYEES AND AGENTS OF GEWALT HAMILTON ASSOCIATES MUST BE LISTED AS ADDITIONAL INSURED.
- ALL ELEVATIONS ARE ON NAVD 88 VERTICAL DATUM.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL TO ADEQUATELY INFORM AND PROTECT THE PUBLIC OF ALL CONSTRUCTION OPERATIONS.
- PRIOR TO PLACEMENT OF FABRIC AND STONE, THE SUBGRADE SHALL BE PROOF-ROLLED IN THE PRESENCE OF THE ENGINEER. PROOF-ROLLING SHALL BE DONE USING A THREE AXLE DUMP TRUCK TOGETHER WITH LOAD WEIGHING AT LEAST TWENTY-FIVE (25) TONS. THE LOAD SHALL BE UNIFORMLY PLACED IN THE DUMP BODY. ALL DEFICIENCIES SHALL BE REPAIRED AND RE-PROOF-ROLLED UNTIL FOUND ACCEPTABLE TO THE ENGINEER.
- ALL STONE USED ON THE PROJECT SHALL BE CRUSHED UNLESS SPECIFICALLY NOTED OTHERWISE.
- ALL CONCRETE SHALL HAVE A LIGHT BROOM FINISH APPLIED WITHIN 1 HOUR OF FINAL STRIKING.
- ALL CONCRETE SHALL HAVE A WHITE, IDOT TYPE 3 CURING COMPOUND APPLIED TO THE SURFACE WITHIN 1 HOUR OF FINAL STRIKING AT THE MANUFACTURER RECOMMENDED APPLICATION RATE.
- 3/4" THICK PRE-MOLDED FIBER EXPANSION JOINTS WITH 2 , 3/4" x 18" PLAIN ROUND, STEEL DOWEL BARS SHALL BE INSTALLED IN ALL CURBS AT (45') FORTY-FIVE FOOT INTERVALS AND AT ALL P.C.'S, P.T.'S AND CURB RETURNS. ALTERNATE ENDS OF THE DOWEL BARS SHALL BE GREASED AND FITTED WITH METAL EXPANSION TUBES. ALL EXPANSION JOINTS MUST BE FREE OF CONCRETE FOR FULL DEPTH. CONTRACTION JOINTS SHALL BE TOOLED AT 15' INTERVALS.
- UNLESS OTHERWISE NOTED ON THE PLANS WHENEVER NEW CONCRETE ABUTS EXISTING/ OR NEW CONCRETE SET A 1/2" THICK PRE-MOLDED FIBER EXPANSION JOINT AND DOWEL WITH SMOOTH 12" #4 BARS @ 24" O.C. THIS INCLUDES CONCRETE POURED ADJACENT TO EXISTING SIDEWALKS, CURBS AND BUILDING. THE DOWEL BARS SHOULD BE 4" INTO EXISTING CONCRETE WITH 8" EXTENDING INTO NEW CONCRETE.
- ALL DOWEL BARS AND TIE BARS SHALL BE EPOXY COATED UNLESS NOTED OTHERWISE.
- ALL PAVEMENT SUBGRADE SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY (ASTM D-1557). ALL SUBGRADE IN LAWN AREAS SHALL BE COMPACTED TO 90% MODIFIED PROCTOR DENSITY (ASTM D-1557). ALL TOPSOIL AND SUBGRADE 6" BELOW TOPSOIL SHALL BE COMPACTED TO 80% STANDARD PROCTOR DENSITY (ASTM D-698).
- SPREAD SCREENED TOPSOIL ON ALL DISTURBED AREAS AND PROPOSED GREEN AREAS. TOPSOIL SHALL COMPLY WITH REQUIREMENTS OF ARTICLE 1081.05.
- ALL REFERENCES TO "ENGINEER" SHALL BE INTERPRETED TO MEAN THE VILLAGE ENGINEER OR AUTHORIZED VILLAGE REPRESENTATIVE.

VILLAGE OF BUFFALO GROVE NOTES

- FRAMES, LIDS, GRATES, VALVES, FIRE HYDRANTS, ETC. WHICH ARE ABANDONED OR REPLACED IN THIS PROJECT SHALL BE SALVAGED AND REMAIN PROPERTY OF THE VILLAGE OF BUFFALO GROVE. THE CONTRACTOR SHALL COORDINATE DELIVERY TO THE VILLAGE'S SELECTED SITE. ANY DAMAGE TO THE SALVAGED ITEMS DUE TO THE CONTRACTORS NEGLIGENCE SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
- THE CONTRACTOR SHALL GIVE NOTICES AND COMPLY WITH APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ALL PUBLIC AUTHORITIES BEARING ON SAFETY OF PERSONS OR PROPERTY OR THEIR PROTECTION FROM DAMAGE, INJURY OR LOSS.
- ANY EARTH EXCAVATION DONE WITH REMOVAL OR FRAMING OF DRIVEWAY OR SIDEWALK IS INCIDENTAL TO THAT ITEM.
- ANY STREET LIGHT POLE BRACING REQUIRED SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.
- NO SIGNAGE IS TO BE REMOVED. IF SIGNS ARE TAKEN DOWN FOR CONSTRUCTION PURPOSES, THEY MUST BE RE-ERECTED ON THE SAME DAY TO THE SATISFACTION OF THE ENGINEER.
- ANY BRANCHES THAT REQUIRE TRIMMING FOR EQUIPMENT CLEARANCE/CONSTRUCTION OPERATIONS SHALL BE DONE IN ACCORDANCE WITH THE IDOT DISTRICT ONE DETAIL "PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE" AND SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT. ALL ADDITIONAL TREE TRIMMING MUST BE APPROVED BY THE ENGINEER.
- ALL HOOKS AND LIFTING RINGS SHALL BE REMOVED AND CUT FLUSH ONCE THE STRUCTURE IS IN ITS FINAL LOCATION AND HAVE MORTAR INSTALLED TO COVER THE REBAR.

EROSION CONTROL NOTES

- AT A MINIMUM, THE CONTRACTOR SHALL INSTALL AND MAINTAIN SOIL EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN THE LATEST EDITION OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S URBAN MANUAL.
- DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS.
- LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ANY ROAD OF MATERIAL THAT IS FROM THE PROJECT. THIS WILL BE DONE AT THE CLOSE OF EACH DAY OF WORK OR MORE FREQUENTLY AS FIELD CONDITIONS WARRANT.
- ALL STORM WATER STRUCTURES WITH OPEN LIDS SHALL BE PROTECTED WITH INLET FILTER BASKETS. DURING CONSTRUCTION, SEDIMENT SHALL BE REMOVED AS NEEDED, AND BASKETS SHALL BE REPAIRED OR REPLACED AS NEEDED.
- AFTER ACHIEVING PERMANENT VEGETATION, ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE REMOVED, AND THE DRAINAGE STRUCTURES SHALL BE CLEANED.
- THE CONTRACTOR SHALL KEEP A WATER SOURCE AT THEIR DISPOSAL FOR THE PURPOSE OF WATERING DOWN SOIL ON SITE AND ADJACENT ROADWAYS WHICH OTHERWISE MAY BECOME AIRBORNE.
- THE CONTRACTOR SHALL STABILIZE ALL IDLE, DISTURBED AREAS WITHIN SEVEN DAYS OF CESSATION OF THE CONSTRUCTION ACTIVITIES IN THAT AREA.
- THE CONTRACTOR IS EXPRESSLY ADVISED NOT TO DISTURB AREAS WHICH ARE OUTSIDE THOSE NECESSARY TO PROVIDE THE IMPROVEMENTS AS CALLED FOR IN THE PLANS.
- ALL EROSION CONTROL MEASURES SHALL BE REPLACED IF DAMAGED OR MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.
- ALL BYPASS CHANNELS, MUST BE CONSTRUCTED SO THAT CHANNEL FLOWS WILL NOT CAUSE EROSION OF EXCAVATED MATERIAL. IN EACH CASE A SEDIMENTATION BASIN MUST BE CONSTRUCTED SO AS TO ALLOW THE SEDIMENT TO SETTLE PRIOR TO THE DOWNSTREAM OUTLET OF THE PROJECT AREA.
- PUMPS MAY BE USED AS BYPASS DEVICES, BUT IN NO CASE WILL THE WATER BE DIVERTED OUTSIDE THE PROJECT LIMIT. ALL PUMPED WATER SHALL BE FREE OF SILT. PUMPING MAY REQUIRE THE USE OF A SEDIMENT CONTAINMENT FILTER BAG AND OTHER SUPPLEMENTAL SEDIMENT CONTROL MEASURES.
- CONCRETE WASHOUT FACILITIES SHALL BE MADE AVAILABLE IF NEEDED, AND PROPERLY MAINTAINED THROUGHOUT THE PROJECT.
- PROPERLY MANAGE ALL MATERIAL STORAGE AREAS, PORTABLE TOILETS, AND EQUIPMENT FUELING, CLEANING, AND MAINTENANCE AREAS TO ENSURE THESE AREAS ARE FREE OF SPILLS, LEAKS, OR OTHER POTENTIAL POLLUTANTS.
- WASTE, CONSTRUCTION DEBRIS, AND BUILDING MATERIALS SHALL BE COLLECTED AND PLACED IN APPROVED RECEPTACLES.

VILLAGE OF BUFFALO GROVE WATER MAIN NOTES

- SIZES OF EXISTING MAINS WERE DETERMINED FROM THE VILLAGE OF BUFFALO GROVE UTILITY ATLAS AND MAY NOT REPRESENT ACTUAL WATER MAIN SIZES. THE CONTRACTOR SHALL HAVE AN ADEQUATE NUMBER OF FITTINGS, SLEEVES, ETC TO COMPLETE THE WORK WITHOUT DELAYS DUE TO DIFFERING WATER MAIN PIPE SIZES.
- COVER ALL NEW FIRE HYDRANTS AND ABANDONED FIRE HYDRANTS WITH BLACK PLASTIC BAGS AFTER INSTALLATION OR UNTIL REMOVAL AND UNTIL NEW WATER MAIN IS IN SERVICE. THE PLASTIC BAG SHALL BE SECURELY TAPED TO THE HYDRANT.
- ADJUSTMENT OF VALVE VAULT RIM ELEVATIONS TO FINAL GRADE AT THE TIME OF PAVING OR LANDSCAPING SHALL BE INCLUDED IN THE COST OF THE VALVE VAULT. VALVE VAULTS SHALL HAVE RUBBER BOOTS MEETING THE REQUIREMENTS OF ASTM C-923 FOR ALL WATER MAIN CONNECTIONS. ALL VALVE VAULTS SHALL BE WATER TIGHT PER ASTM C-1244.
- ALL MAIN INSTALLED NOT SUBJECT TO PRESSURE TEST AND CHLORINATION TESTING REQUIREMENTS SHALL BE INSTALLED PER THE SPECIFICATIONS AND BROUGHT UP TO SYSTEM PRESSURE UNDER WITNESS OF THE ENGINEER. THE PIPE SHALL NOT BE BACKFILLED UNTIL DIRECTED BY THE ENGINEER. THE SECTION OF PIPE WILL BE INSPECTED FOR A PERIOD OF TIME DETERMINED BY THE ENGINEER TO VERIFY THERE ARE NO LEAKS IN THE LINE. ALL COSTS ASSOCIATED WITH COMPLYING WITH THIS REQUIREMENT ARE INCLUDED IN THE COST OF THE CONTRACT.
- ALL MISHANDLED OR DAMAGED MATERIALS AS INSPECTED BY THE ENGINEER WILL BE MARKED WITH SPRAY PAINT. THE MARKED MATERIALS REMAIN THE PROPERTY OF THE CONTRACTOR. ALL MATERIALS MARKED ARE DEEMED UNSUITABLE FOR CONSTRUCTION BY THE ENGINEER AND MUST BE REMOVED FROM THE PROJECT SITE ON A WEEKLY BASIS AT NO COST TO THE VILLAGE.
- BACKFILL IN TURF AREAS MAY UTILIZE THE EXISTING SUBGRADE. ANY SETTLEMENT WITHIN THE WARRANTY PERIOD AS DESCRIBED IN THE SPECIFICATIONS SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. AT THE CONTRACTORS OPTION SAND MAY BE UTILIZED AS BACKFILL IN TURF AREAS TO PREVENT SETTLEMENT. THE SAND MUST BE KEPT 6" BELOW FINISHED GRADE FOR ACCEPTANCE OF TOPSOIL. ALL SAND UTILIZED FOR BACKFILLING IN THE PARKWAY AND ADDITIONAL TOPSOIL NEEDED SHALL NOT BE PAID FOR SEPARATELY BUT INCLUDED IN THE CONTRACT.

STATE STANDARDS:

280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-09	PAVEMENT JOINTS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-04	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-04	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424021-05	DEPRESSED CORNER FOR SIDEWALKS
442101-09	CLASS B PATCHES
442201-03	CLASS C AND D PATCHES
602301-04	INLET - TYPE A
602506-02	PRECAST VALVE VAULT - TYPE A, 5 FT DIAMETER
602601-06	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602702-02	MANHOLE STEPS
604001-05	FRAMES AND LIDS - TYPE 1
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES

DISTRICT ONE STANDARD DETAILS

BD-08	FRAMES AND LIDS ADJUSTMENT WITH MILLING
BD-32	BUTT JOINTS AND HMA TAPER DETAILS
BM-20	PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-14	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
TC-22	ARTERIAL ROAD INFORMATION SIGN

STORM SEWERS	MODEL/SPECIFICATION	STANDARDS/REQUIREMENTS
WATER MAIN CLASS	PVC SDR 26	PIPE:ASTM D-2241 JOINT:ASTM D-3139 GASKET:ASTM F-477
FRAME & GRATE/LID	PAVED AREAS CURB STRUCTURES GRASS AREAS	LID: SEE EXHIBIT 109 OR PLAN LID: SEE EXHIBIT 109 OR PLAN LID: SEE EXHIBIT 109 OR PLAN
ADJUSTMENT RINGS	SEE EXHIBIT 109	2" MINIMUM, 6" MAXIMUM
PIPE BEDDING MATERIAL	CA-11	
TRENCH BACKFILL	CA-11	

WATER MAIN	MODEL/SPECIFICATION	STANDARDS/REQUIREMENTS
DIP CL 52	PIPE:ANSI/AWWA A21.51/C-151 LUNG:ANSI/AWWA C10/A21.4	JOINT:ANSI/AWWA A21.11/C-111
FRAME & GRATE/LID	PAVED AREAS GRASS AREAS	CLOSED LID: SEE EXHIBIT 109 OR PLAN CLOSED LID: SEE EXHIBIT 109 OR PLAN
ADJUSTMENT RINGS	SEE EXHIBIT 109	2" MINIMUM, 6" MAXIMUM
PIPE BEDDING MATERIAL	CA-11	
TRENCH BACKFILL	CA-11	
POLYWRAP	4 MIL BLACK POLY	WRAP:ANSI/AWWA C105/A21.5 INSTALLATION:ASTM A-674 METHOD A
CURB STOP	NO LEAD BRASS	MUELLER H-15154
CURB BOX		MUELLER H-10302
CORPORATION VALVE	NO LEAD BRASS	MUELLER H-15000, AWWA C800, 1" OR 1.25"
SERVICE SADDLE	DOUBLE STRAP SADDLE	1" DIRECT TAP, 1.25" OR LARGER - FORD FC202
FIRE HYDRANT	AWWA C502, 5.25" VALVE OPENINGS, NPT TWO 2.5" PORTS WITH VENTED CAPS AND ONE 4.5" PORT, STAINLESS STEEL HARDWARE, TRAFFIC TYPE, PAINTED RED, 250 PSI OPERATING PRESSURE	
WATER SERVICE PIPE	TYPE K COPPER	PIPE:ASTM B-88

SANITARY SEWERS	MODEL/SPECIFICATION	STANDARDS/REQUIREMENTS
WATER MAIN CLASS	PVC SDR 26	PIPE:ASTM D-2241 JOINT:ASTM D-3139 GASKET:ASTM F-477
FRAME & GRATE/LID	PAVED AREAS GRASS AREAS	LID: SEE EXHIBIT 109 OR PLAN CLOSED LID: SEE EXHIBIT 109 OR PLAN
ADJUSTMENT RINGS	SEE EXHIBIT 109	2" MINIMUM, 6" MAXIMUM
PIPE BEDDING MATERIAL	CA-11	
TRENCH BACKFILL	CA-11	
CHIMNEY SEAL	CRETEX	ASTM: C-923
MANHOLE CONNECTIONS		ASTM: C-923

TESTING REQUIREMENTS	
WATER MAIN	ALL WATER MAIN SHALL HAVE A PRESSURE AND LEAKAGE TEST PERFORMED IN ACCORDANCE WITH SECTION 41-2.14 OF STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS ACCEPT THE PRESSURE DURING THE TESTS SHALL BE EQUAL TO 150PSI.
SANITARY SEWER	ALL SANITARY SEWER SHALL BE TESTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS. ALL RIGID SANITARY SEWER PIPE SHALL BE TESTED BY EITHER METHOD A OR C AS OUTLINED IN SECTION 31-1.12. ALL FLEXIBLE SANITARY SEWER PIPE SHALL BE TESTED BY METHOD D AND EITHER METHOD A OR C. ALL SANITARY SEWER MUST BE TESTED BY METHOD E. THE CONTRACTOR SHALL PROVIDE THE ENGINEER A COPY OF THE VIDEO ON A DIGITAL VIDEO DISC. THE VIDEO MUST BE IN COLOR AND PROCEED NO FASTER THAN 1 FOOT PER SECOND.
SEWER WATER MAIN CROSSINGS	ALL SEWERS THAT CROSS OR RUN PARALLEL TO WATER MAINS SUBJECT TO IEPA REQUIREMENTS FOR WATER MAIN QUALITY PIPE MUST BE PRESSURE TESTED ACCORDING TO 41-2.14 OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS

G:\V20A\2188 - BUFFALO GROVE\V2188-043-2020 - WATER MAIN IMPROVEMENTS\V2188-043-PR-1-DWG - 2/12/2020 5:22 PM

625 Forest Edge Drive ■ Vernon Hills, IL. 60061
TEL 847.478.9700 ■ FAX 847.478.9701

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GENERAL NOTES
2020 SAXON/DOWNING WATER & STREET IMPROVEMENTS
VARIOUS LOCATIONS
VILLAGE OF BUFFALO GROVE, ILLINOIS 60089

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE: 4798.043 PR-1.dwg	SHEET NUMBER:
DRAWN BY: PCL DATE: 02/13/20	GHA PROJECT # 4798.043
CHECKED BY: LXM DATE: 02/13/20	SCALE: N.T.S.
	OF 19 SHEETS

3

LEGEND:

- ① EXISTING AGGREGATE SUB-BASE
- ② EXISTING AGGREGATE BASE COURSE, 5.25"-10.5"
- ③ EXISTING COMBINATION CONCRETE CURB & GUTTER
- ④ EXISTING BITUMINOUS PAVEMENT, 5.25"-10.5"
- ⑤ EXISTING DRIVEWAY
- ⑥ EXISTING SIDEWALK
- ⑦ EXISTING GROUND
- ⑧ PROPOSED 8" DIP CL 52 WATER MAIN
- ⑨ PROPOSED AGGREGATE BASE COURSE, TYPE B, AS SPECIFIED
- ⑩ PROPOSED PREPARATION OF BASE
- ⑪ PROPOSED COMBINATION CONCRETE CURB AND GUTTER
- ⑫ PROPOSED P.C.C. BASE COURSE WIDENING, 8"
- ⑬ PROPOSED CLASS D PATCHES, 5" (AS REQUIRED)
- ⑭ PROPOSED P.C.C. DRIVEWAY PAVEMENT, 6"
- ⑮ PROPOSED BITUMINOUS MATERIALS (TACK COAT)
- ⑯ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 0.75"
- ⑰ PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.5"
- ⑱ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50, 2"
- ⑲ PROPOSED RESTORATION: VARIABLE DEPTH TOPSOIL, SEEDING 1A, MULCH METHOD 3A
- ^R ITEM TO BE REMOVED/RECYCLED

NOTE:

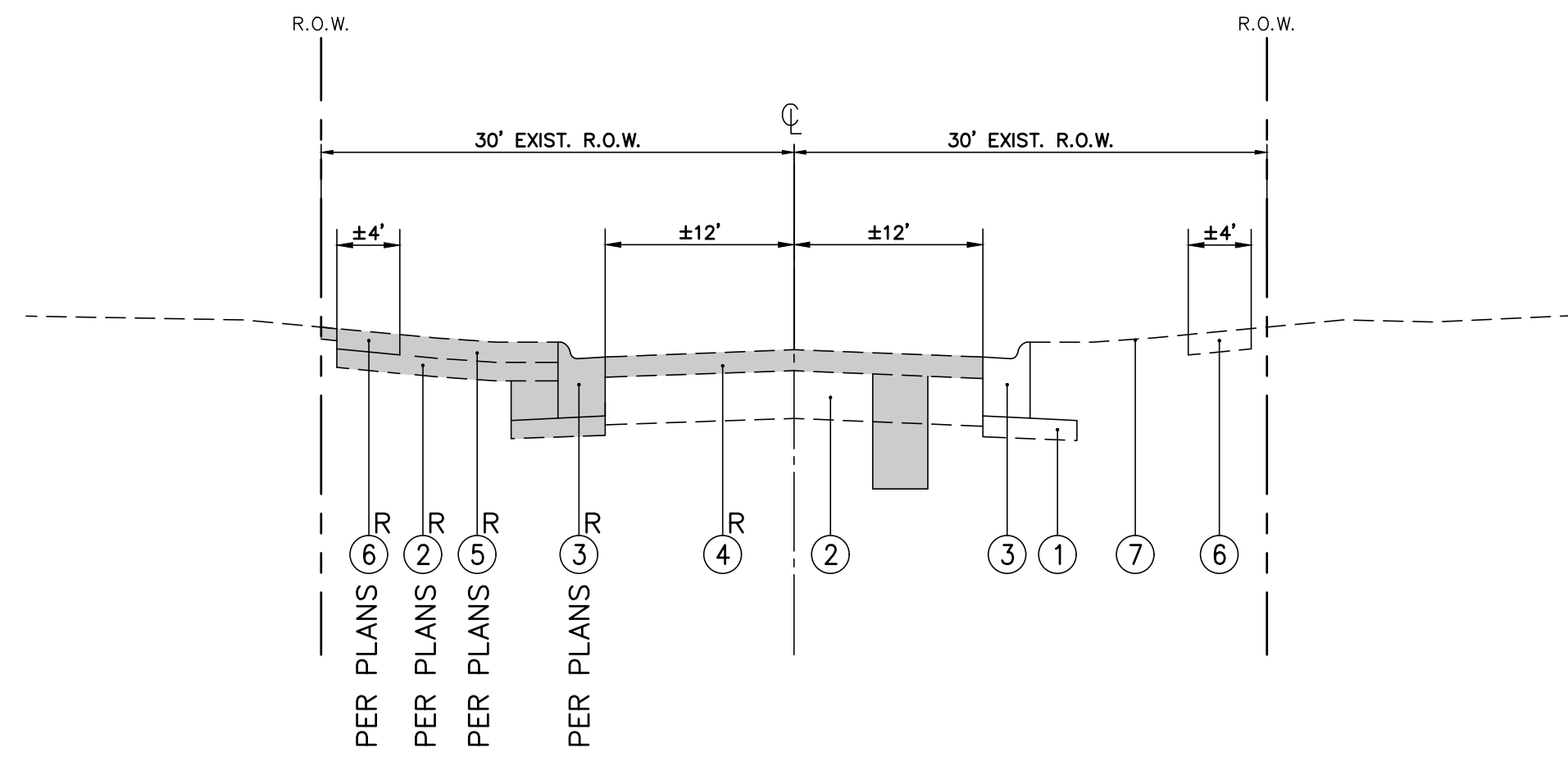
PROPOSED PCC SIDEWALK THRU DRIVEWAY LOCATIONS SHALL BE 6" AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQ.FT. FOR PCC SIDEWALK 5".

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ Ndes
RESURFACING	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50, 2"	3% @ 50 GYR
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 0.75"	3% @ 50 GYR
RECONSTRUCTION	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50, 2"	3% @ 50 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.5"	3% @ 50 GYR
PATCHING	
CLASS D PATCHES, TYPE I-IV, 5"	3% @ 50 GYR
FINISHED PATCHING	
CLASS D PATCHES, TYPE I-IV, 5"	3% @ 50 GYR

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ.YD./IN.

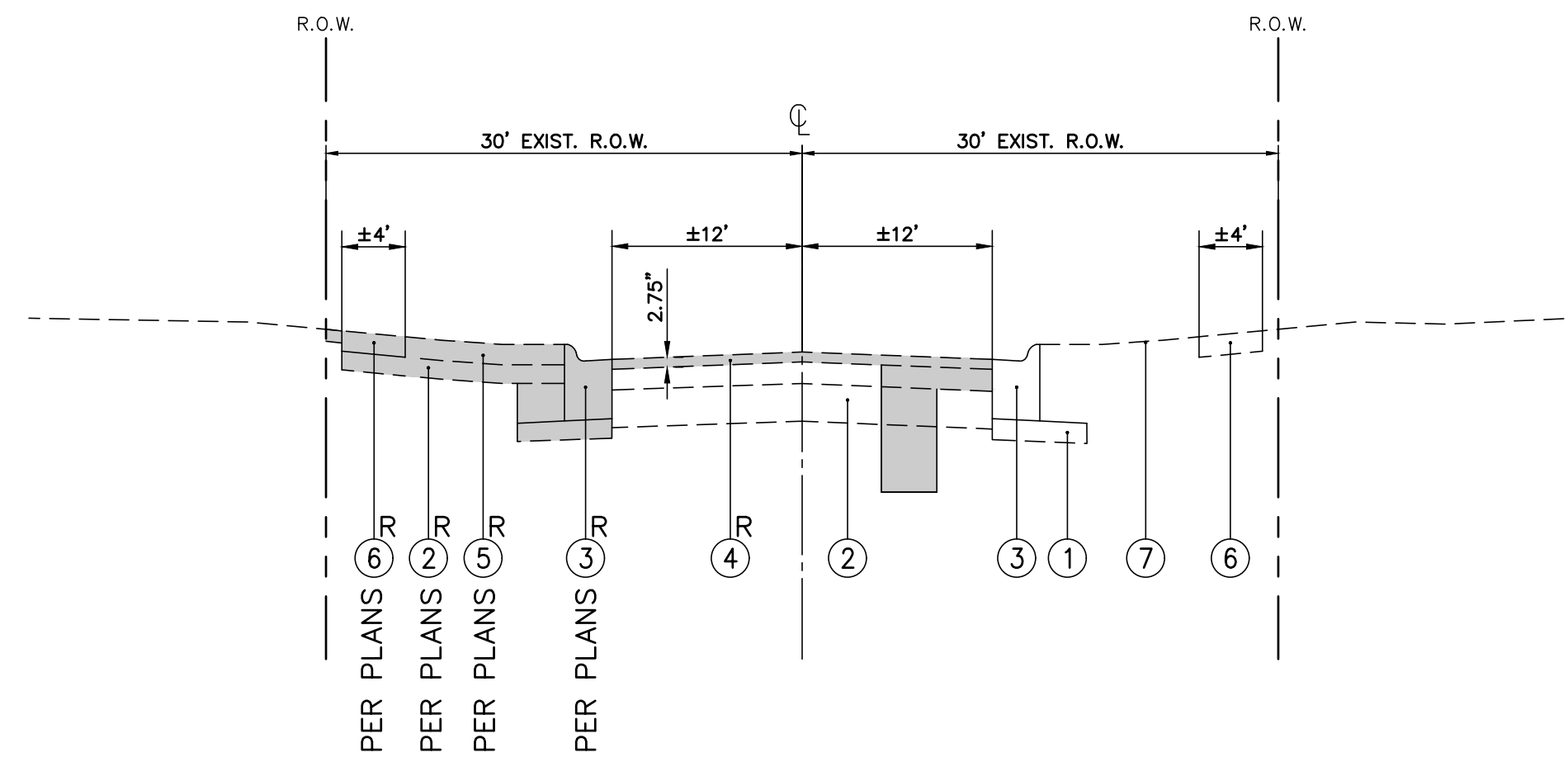
THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.



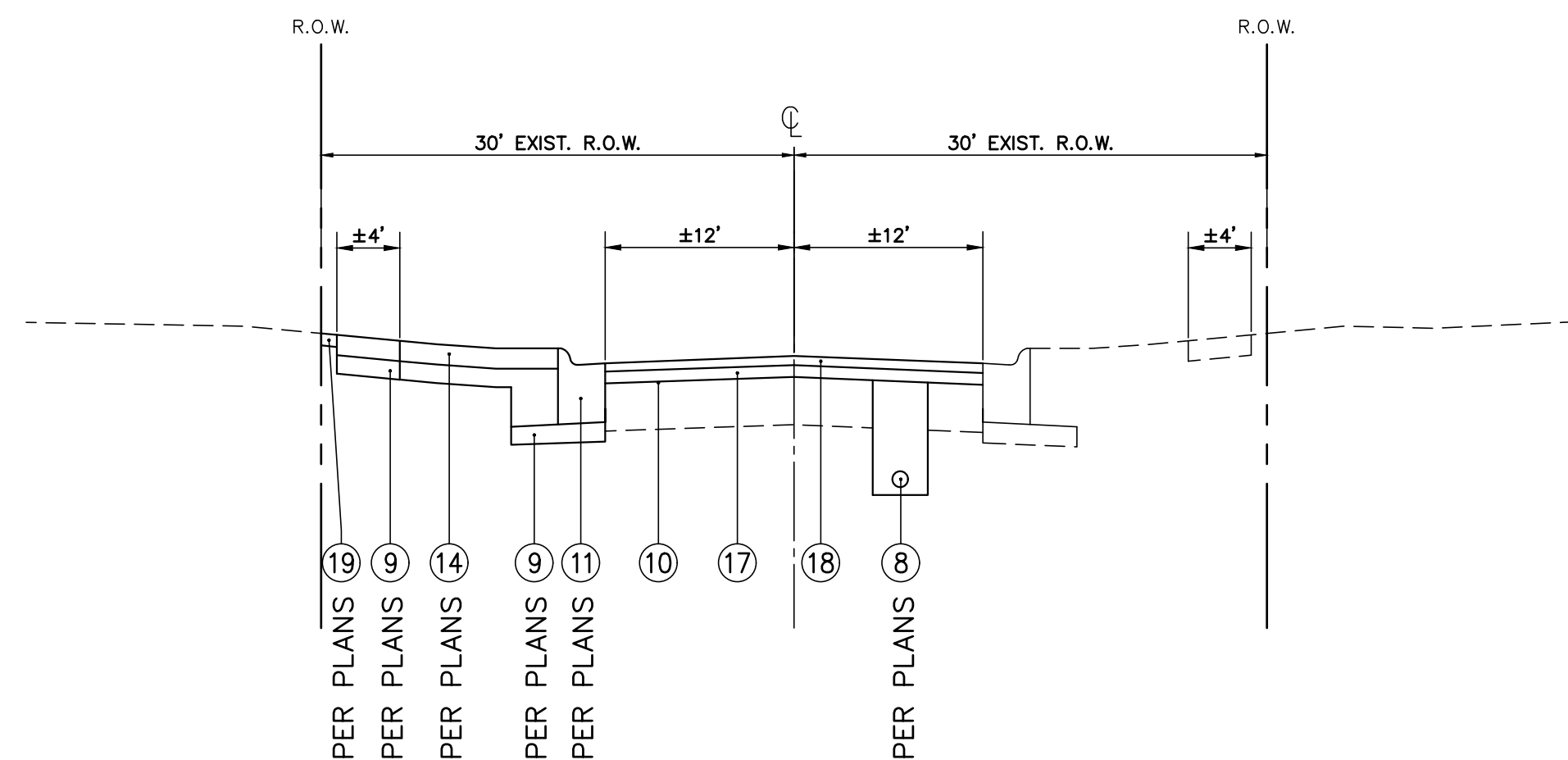
EXISTING TYPICAL SECTION

SAXON COURT
DOWNING ROAD
ETON COURT
SELWYN LANE
CHARLES COURT CUL-DE-SAC



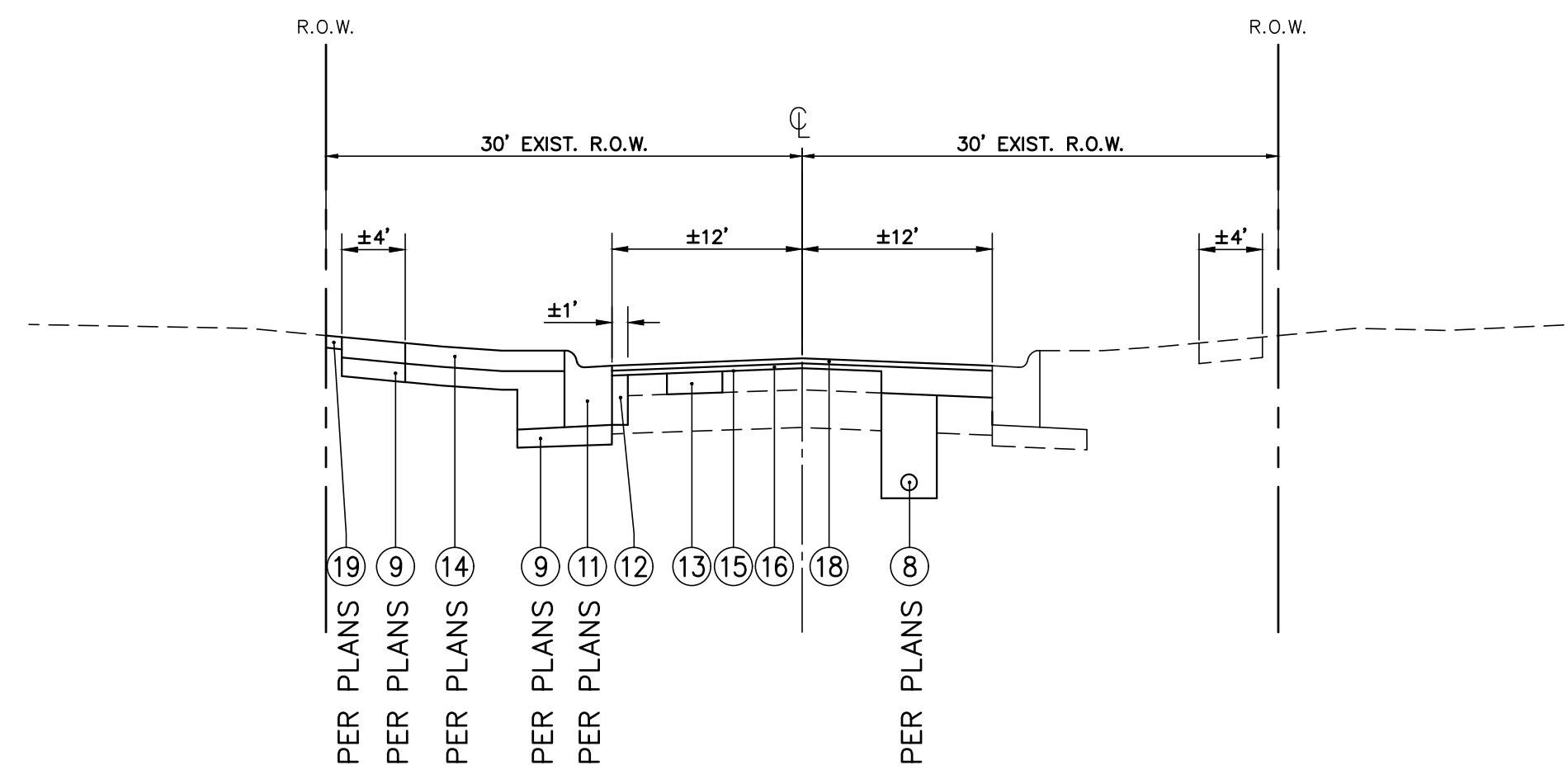
EXISTING TYPICAL SECTION

CHARLES COURT



PROPOSED TYPICAL SECTION

SAXON COURT
DOWNING ROAD
ETON COURT
SELWYN LANE
CHARLES COURT CUL-DE-SAC



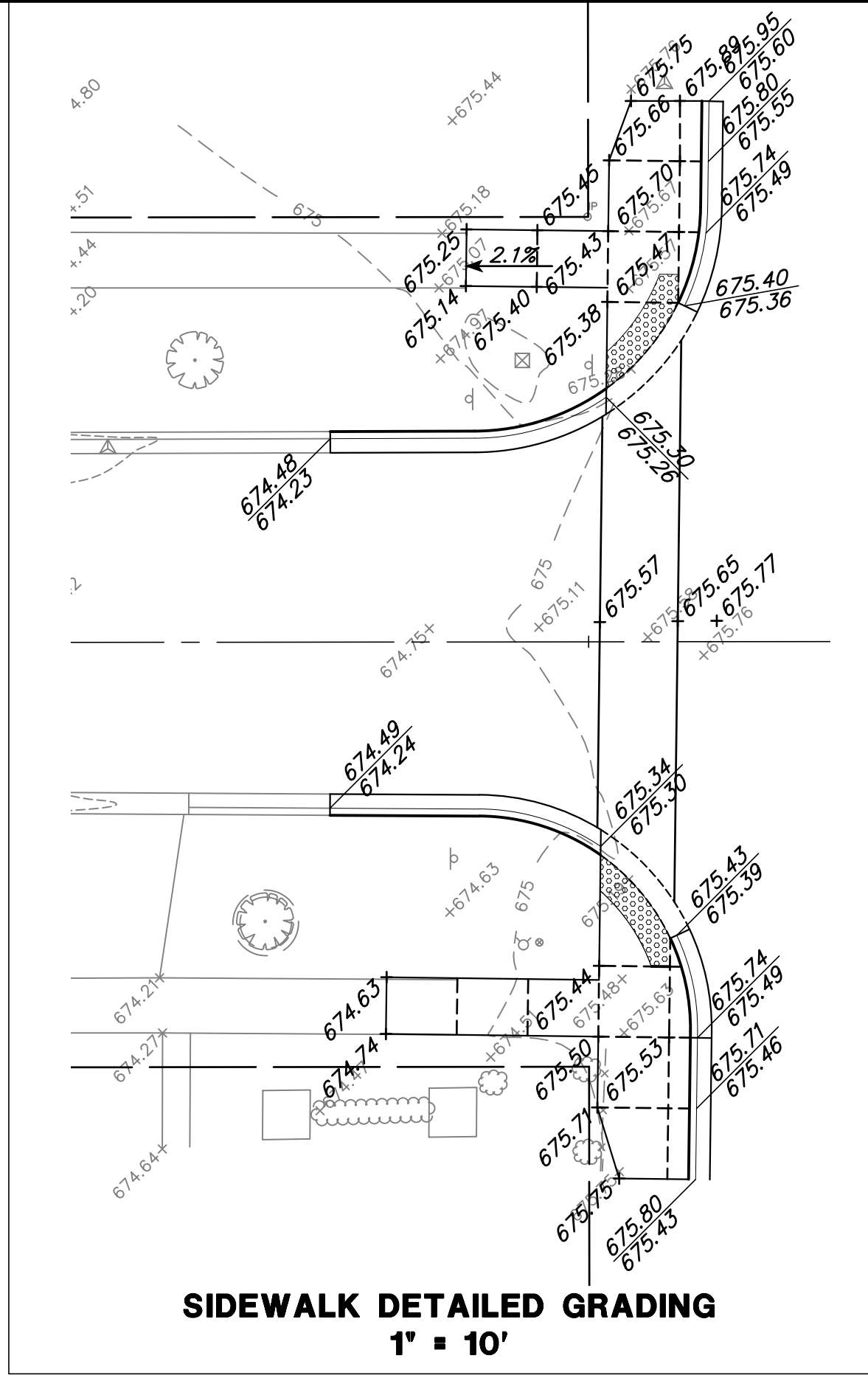
PROPOSED TYPICAL SECTION

CHARLES COURT

IMPROVEMENTS NOTES:

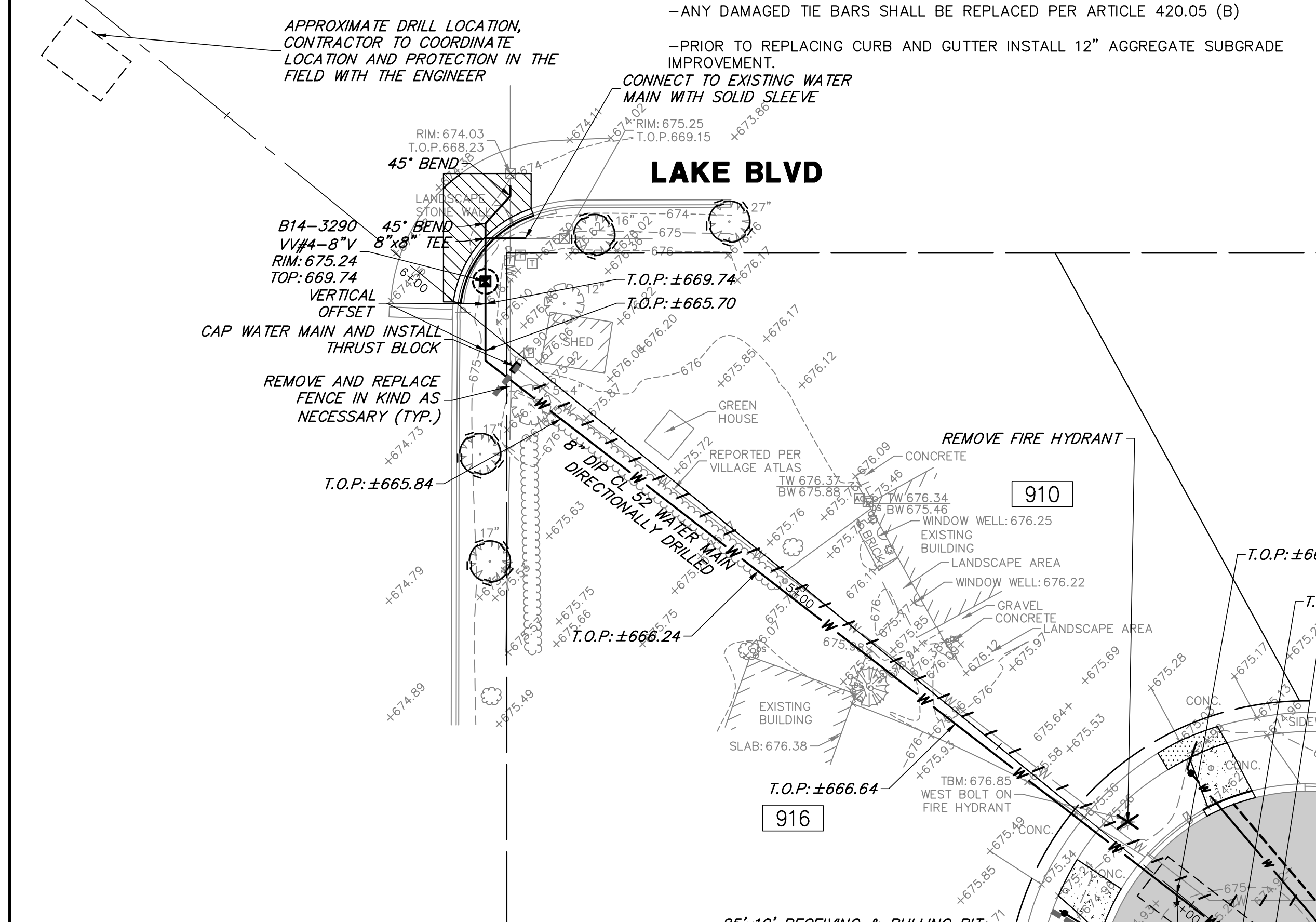
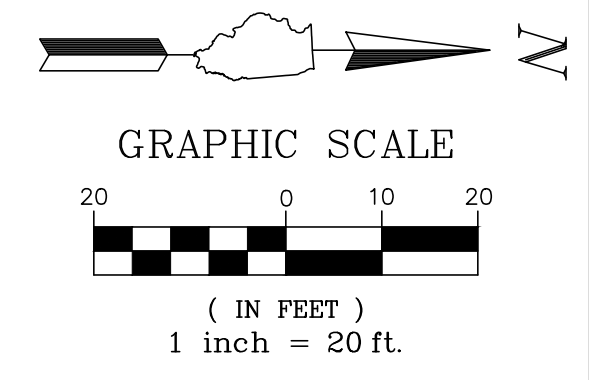
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 - 22.5 DEGREE HORIZONTAL BEND - 10'
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- END CAPS - PROVIDE THRUST BLOCK
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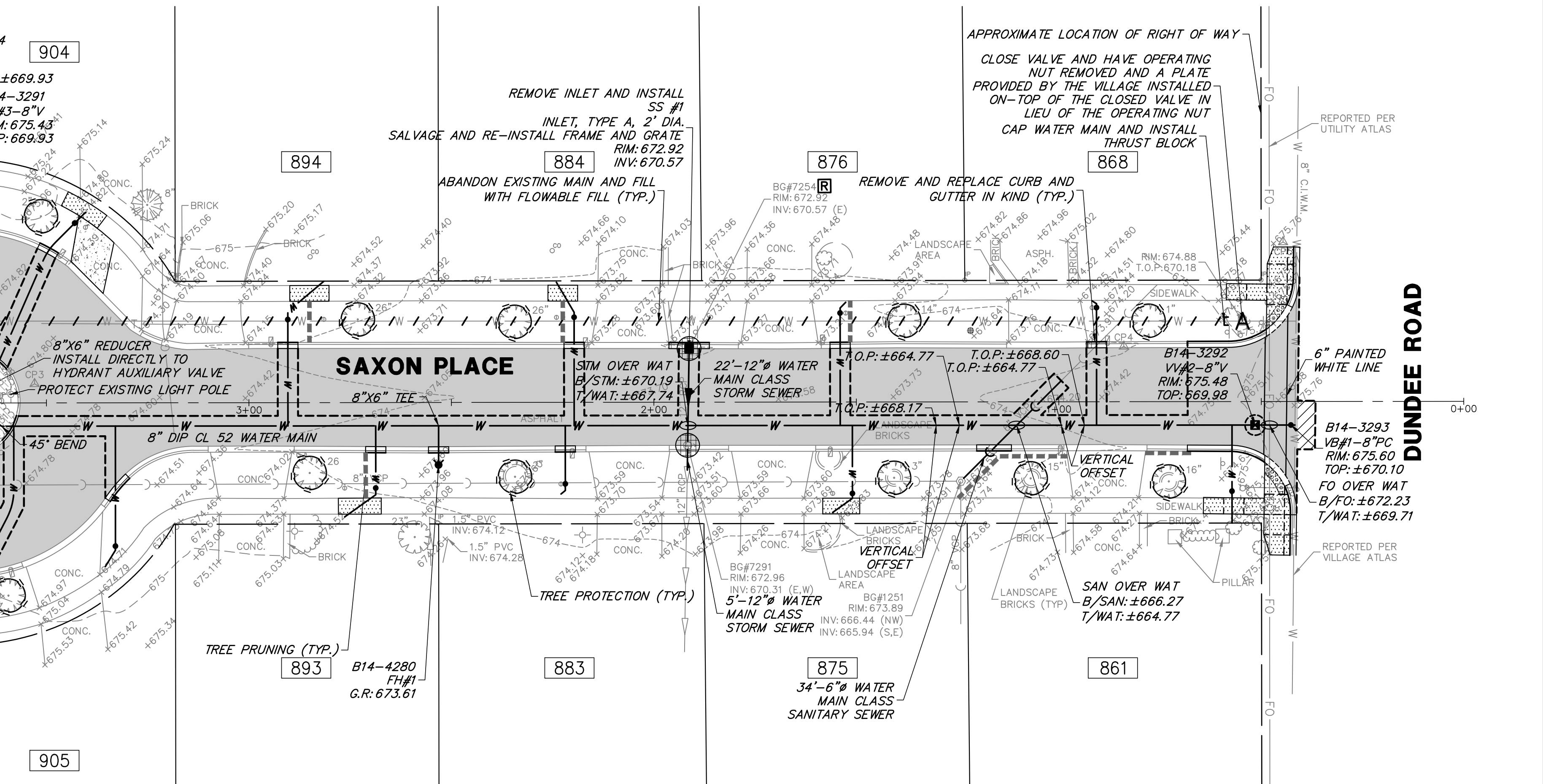


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- STRUCTURE TO BE ABANDONED
- STRUCTURE REMOVAL
- INLET FILTERS
- HOUSE ADDRESS



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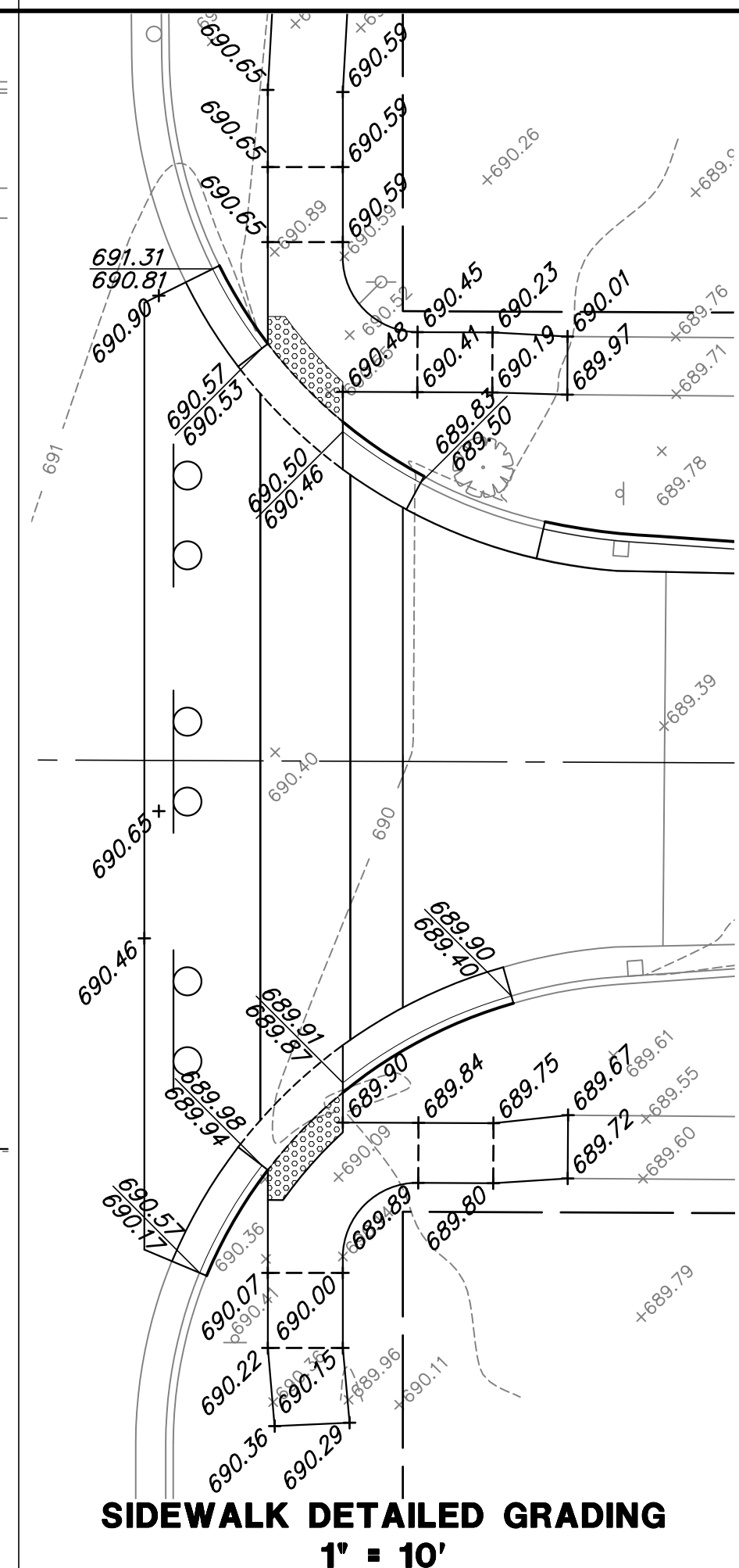
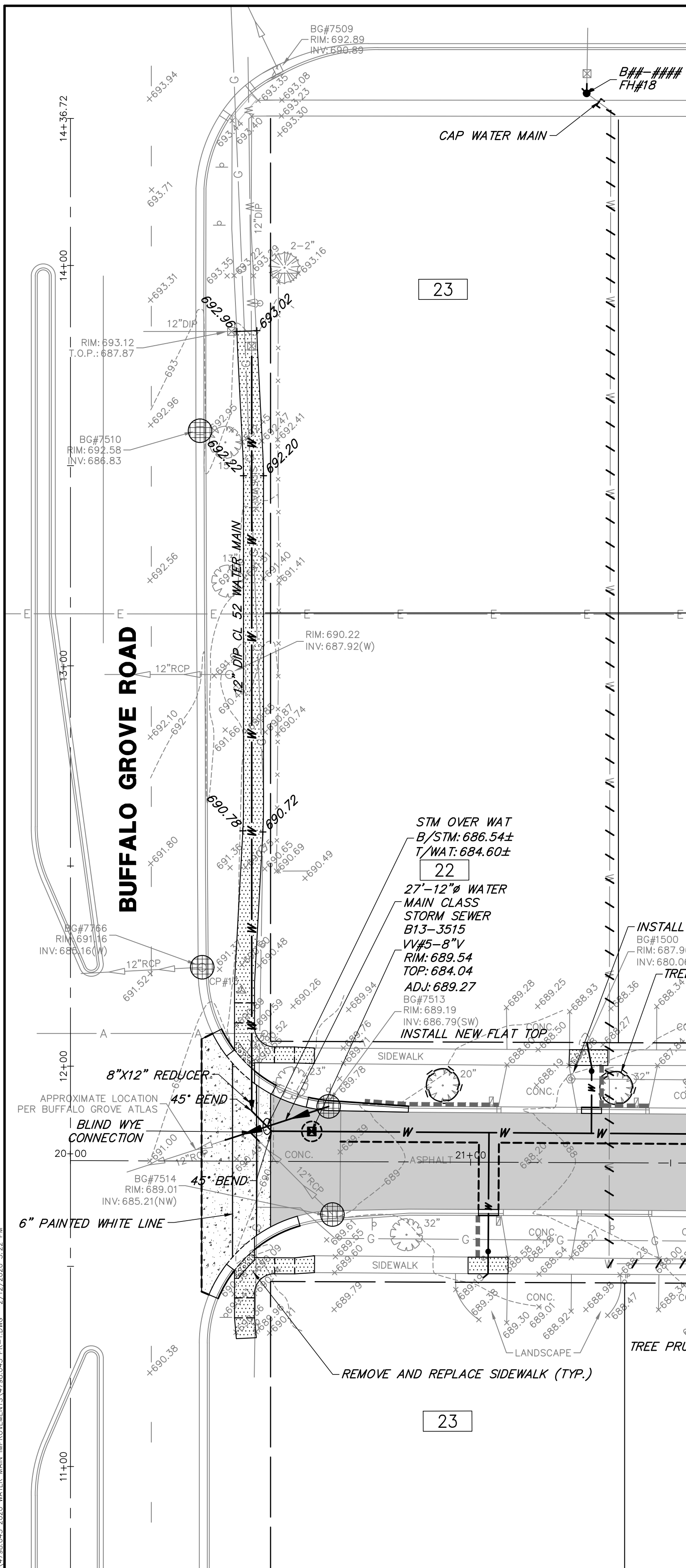
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 625 Forest Edge Drive ■ Vernon Hills, IL. 60061
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SAXON PLACE
2020 SAXON/DOWNING WATER & STREET IMPROVEMENTS
VARIOUS LOCATIONS
VILLAGE OF BUFFALO GROVE, ILLINOIS 60089

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE 4798.043 PR-1.dwg
 DRAWN BY: PCL GHA PROJECT # 4798.043
 DATE: 02/13/20
 CHECKED BY: LXM SCALE: 1" = 20'
 DATE: 02/13/20
 SHEET NUMBER: **5**
 OF 19 SHEETS

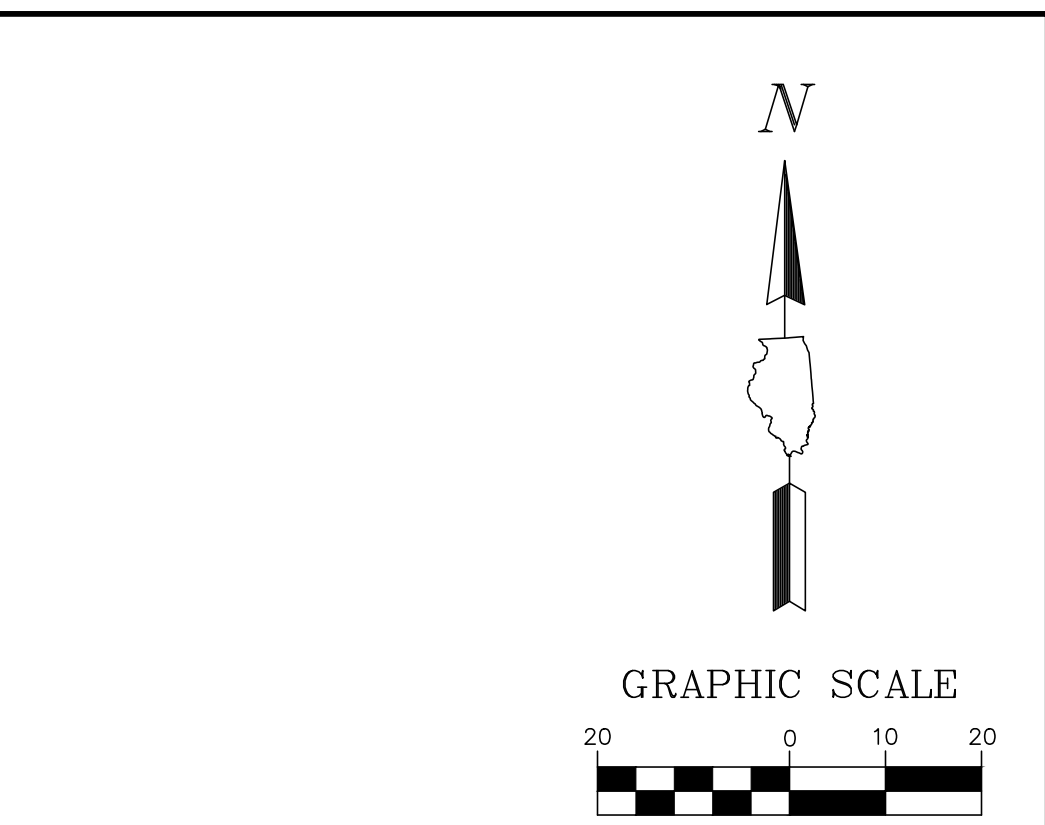


DEMOLITION NOTES:

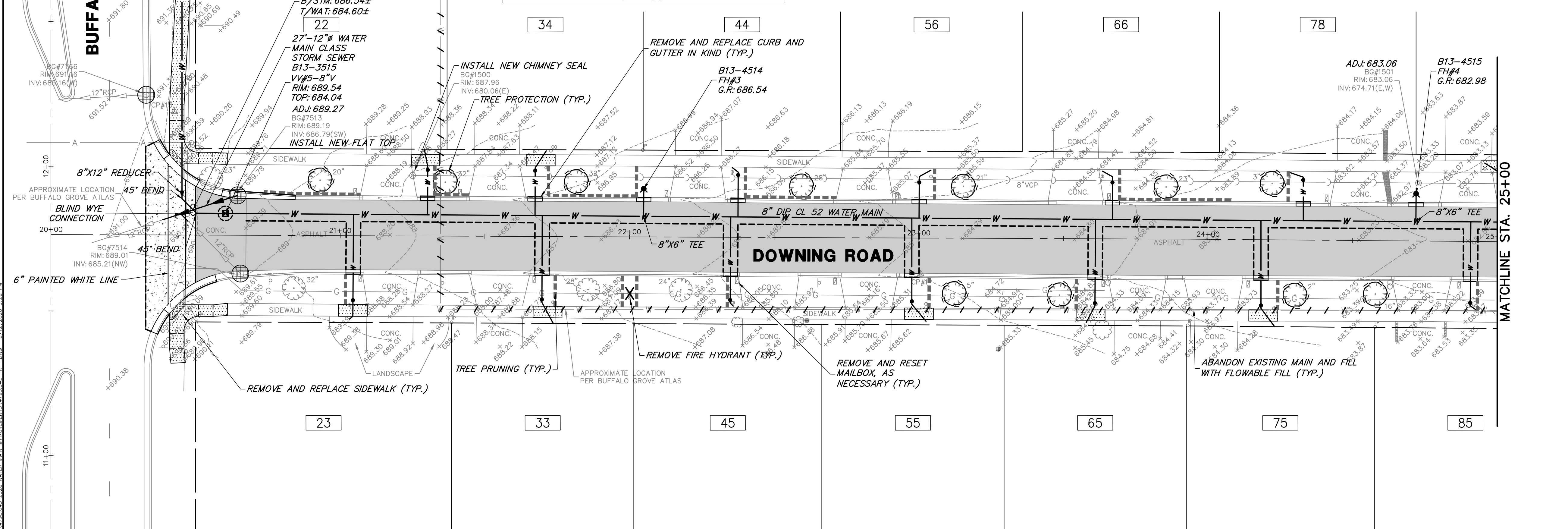
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 - HMA RESURFACING
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 - CLASS D PATCH
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NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

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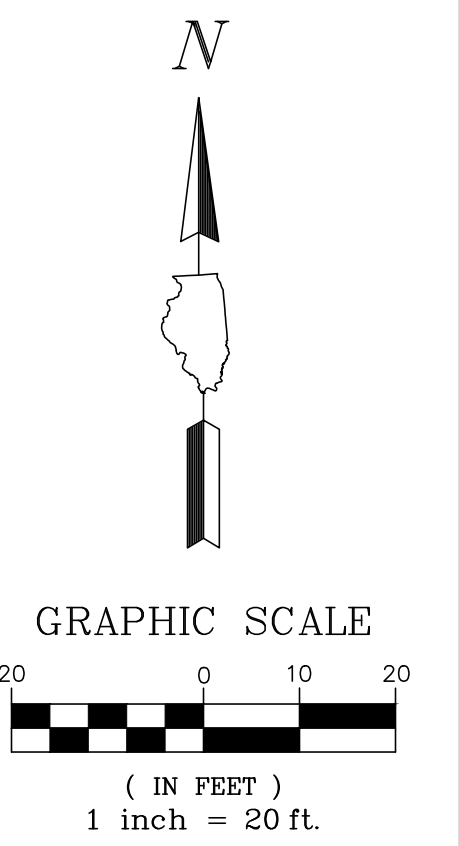
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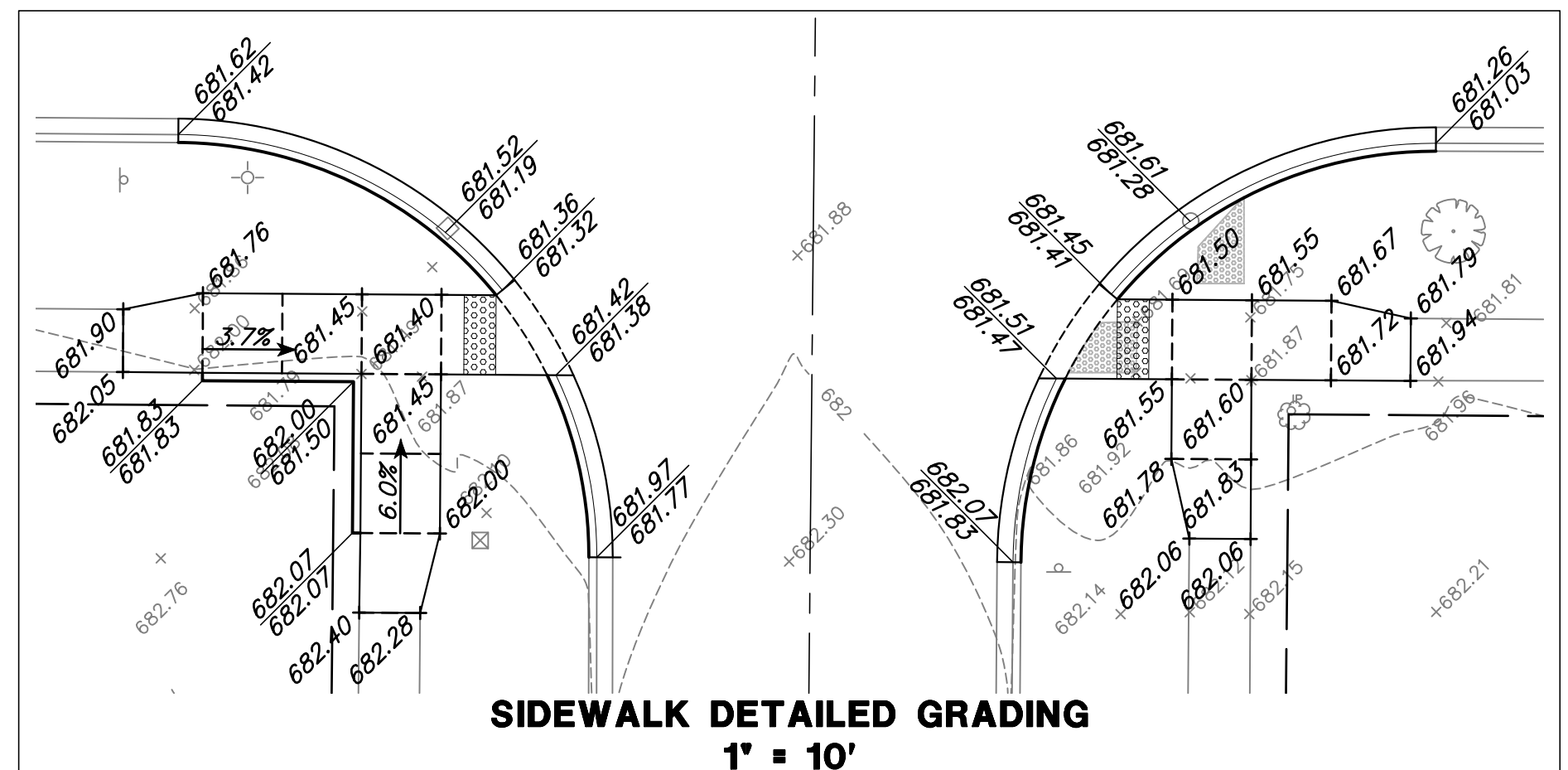
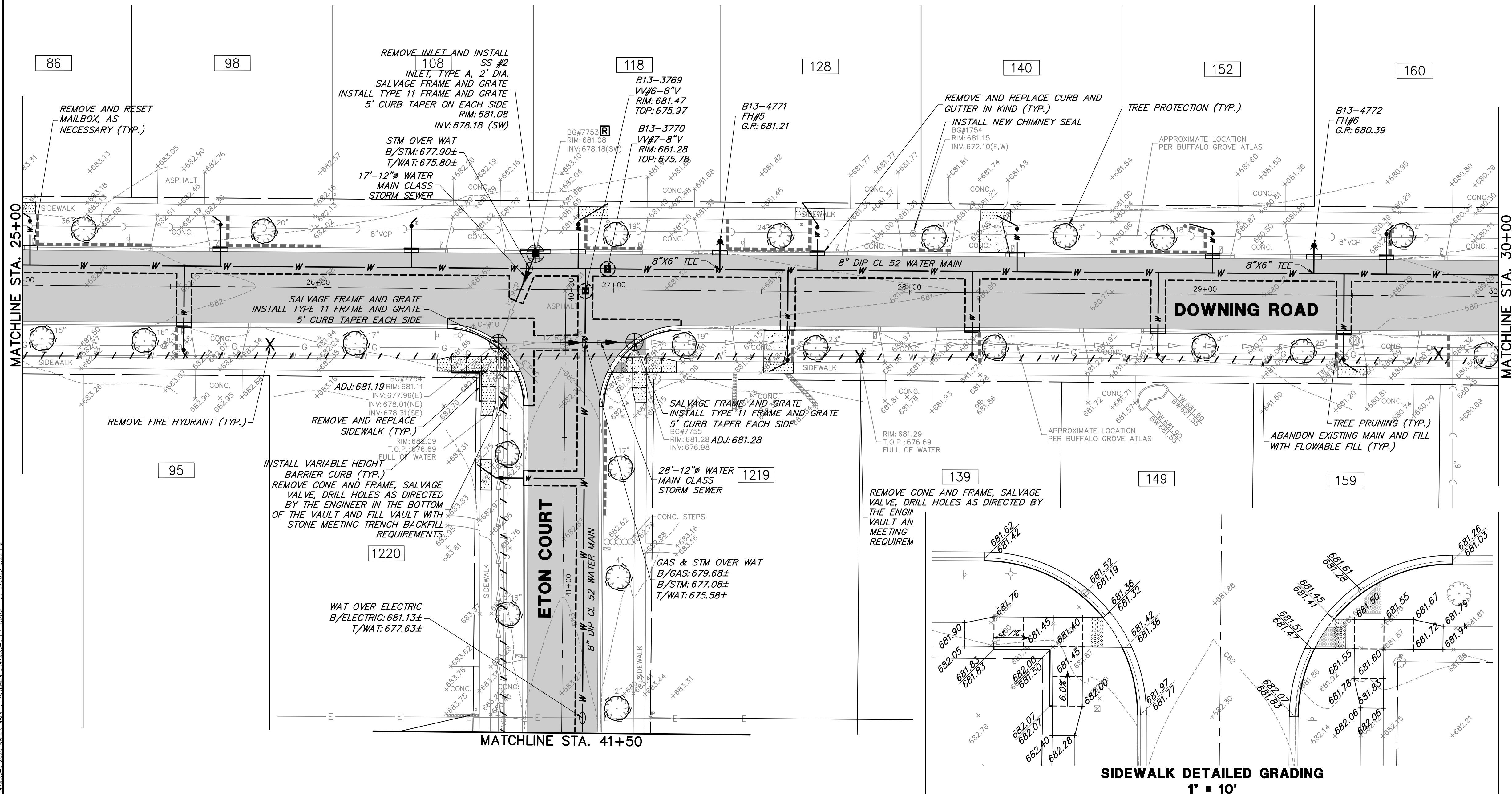
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DOWNING ROAD STATION 25+00 - 30+00
2020 SAXON/DOWNING WATER & STREET IMPROVEMENTS
VARIOUS LOCATIONS
VILLAGE OF BUFFALO GROVE, ILLINOIS 60089

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE: 4798.043 PR-1.dwg	SHEET NUMBER:
DRAWN BY: PCL	GHA PROJECT #
DATE: 02/13/20	4798.043
CHECKED BY: LXM	SCALE:
DATE: 02/13/20	1" = 20'
	OF 19 SHEETS

7

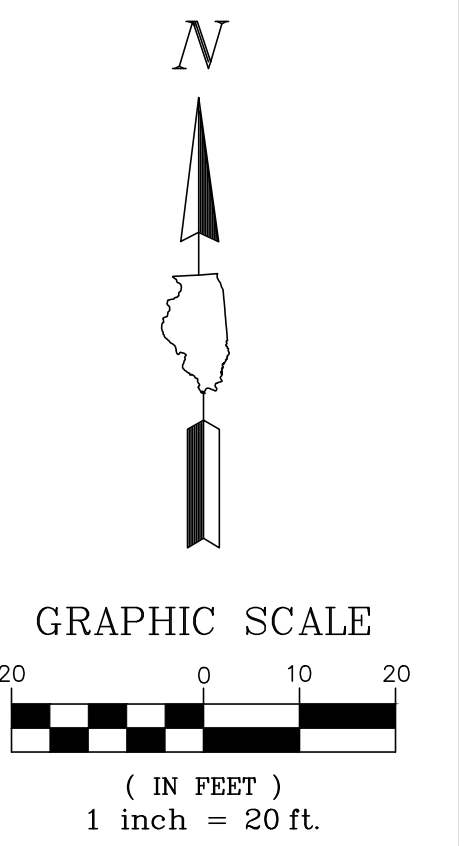
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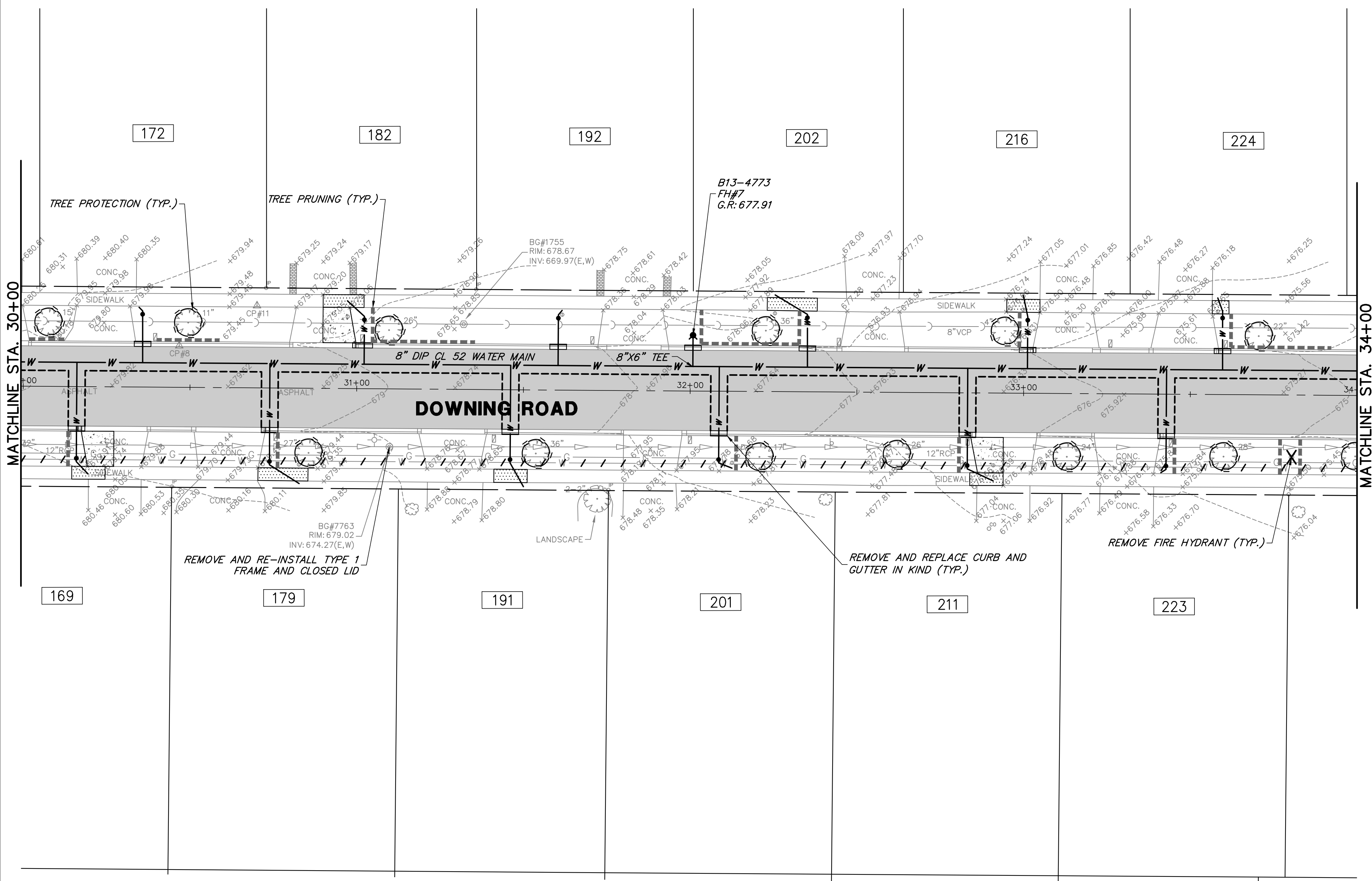
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- ALL CURB SHALL TAPER FOR A DISTANCE OF 2 FEET FROM FULL HEIGHT TO DEPRESSED CURB UNLESS OTHERWISE MARKED IN THE FIELD.
- ALL MAILBOXES DISTURBED AS PART OF THIS PROJECT SHALL BE RESET AT THE CONCLUSION OF THE DAY TO THE SATISFACTION OF THE ENGINEER & RESIDENT. THIS WORK IS CONSIDERED INCLUDED IN THE CONTRACT.
- REPLACEMENT TREES NOT SHOWN ON THE PLANS SHALL BE ADDED IN LOCATIONS AS DETERMINED BY THE ENGINEER IN THE FIELD.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING LOCKING GASKETS ADJACENT TO ALL BENDS AND FITTINGS IN ACCORDANCE WITH THE RESTRAINED JOINT MANUFACTURER AND THE FOLLOWING DISTANCES FROM THE FITTING. THE COST OF THE LOCKING GASKETS SHALL BE INCLUDED IN THE COST OF THE WATER MAIN.
 - 45 DEGREE HORIZONTAL BEND - 15'
 - 22.5 DEGREE HORIZONTAL BEND - 10'
 - 45 DEGREE VERTICAL OFFSET - 25'
 - TEES - PROVIDE THRUST BLOCK
 - PRESSURE CONNECTIONS - PROVIDE THRUST BLOCK
 - END CAPS - PROVIDE THRUST BLOCK

- THE USE OF 90 DEGREE BENDS IS NOT ALLOWED UNLESS PRIOR WRITTEN APPROVAL IS GIVEN BY THE ENGINEER.
- ALL VALVES TO BE ABANDONED IN PLACE SHALL HAVE THE VALVE CLOSED. HAVE THE OPERATING NUT REMOVED AND A PLATE PROVIDED BY THE VILLAGE INSTALLED ON-TOP OF THE CLOSED VALVE IN LIEU OF THE OPERATING NUT.
- ALL WATER MAIN CAPS ON THE EXISTING MAIN SHALL BE INSTALLED REGARDLESS OF THE COMPLETE SHUTDOWN CAPABILITY OF THE EXISTING VALVE.
- ALL SERVICE TAPS MUST BE A MINIMUM OF 2' FROM ANY FITTINGS, BELLS, OR SERVICE TAPS.
- ALL CURB AND GUTTER TO BE R&R THE CONTRACTOR SHALL REMOVE THE EXISTING CURB IN A MANNER TO SALVAGE THE EXISTING TIE BARS FOR RE-USE.
- ANY DAMAGED TIE BARS SHALL BE REPLACED PER ARTICLE 420.05 (B)
- PRIOR TO REPLACING CURB AND GUTTER INSTALL 12" AGGREGATE SUBGRADE IMPROVEMENT.



PROPOSED LEGEND

- HMA RECONSTRUCTION
- HMA RESURFACING
- PCC PAVEMENT
- PCC SIDEWALK
- CLASS D PATCH
- DETECTABLE WARNINGS
- M3.12 CURB & GUTTER (REGULAR)
- M3.12 CURB & GUTTER (DEPRESSED)
- HMA SURFACE REMOVAL - BUTT JOINT
- PAVEMENT SAWCUT
- STRUCTURE ADJUSTMENT
- TREE TRUNK PROTECTION FENCE
- STRUCTURE TO BE ADJUSTED
- STRUCTURE TO BE REMOVED
- UTILITY TO BE ABANDONED
- TREE ROOT PRUNING
- STRUCTURE TO BE ABANDONED
- STRUCTURE REMOVAL
- INLET FILTERS
- HOUSE ADDRESS



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 625 Forest Edge Drive ■ Vernon Hills, IL. 60061
 TEL 847.478.9700 ■ FAX 847.478.9701

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DOWNING ROAD STATION 30+00 - 34+00
2020 SAXON/DOWNING WATER & STREET IMPROVEMENTS
VARIOUS LOCATIONS
VILLAGE OF BUFFALO GROVE, ILLINOIS 60089

NO.	BY	DATE	REVISION

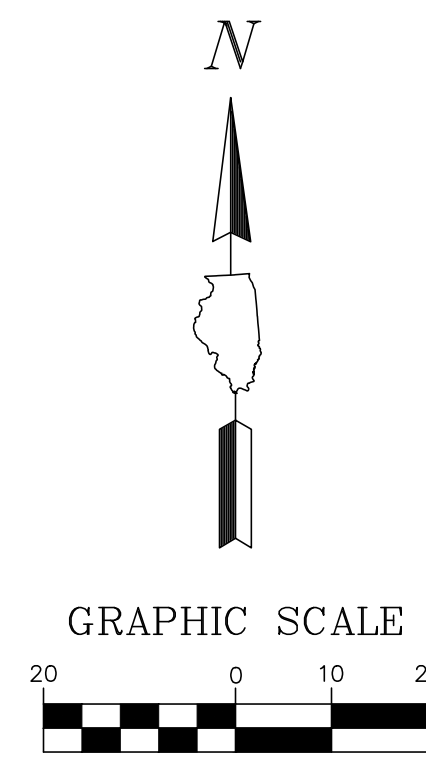
FILE: 4798.043 PR-1.dwg	SHEET NUMBER:
DRAWN BY: PCL DATE: 02/13/20	GHA PROJECT # 4798.043
CHECKED BY: LXM DATE: 02/13/20	SCALE: 1" = 20'
	8 OF 19 SHEETS

DEMOLITION NOTES:

- RESIDENT ACCESS MUST BE MAINTAINED THROUGHOUT THE PROJECT. THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR MORE DETAILED REQUIREMENTS FOR RESIDENT ACCESS AND STAGING.
- BRICK PAVERS WITHIN THE VILLAGE RIGHT OF WAY THAT ARE DISTURBED AS PART OF THIS PROJECT SHALL BE REMOVED AND NEATLY STACKED ADJACENT TO THE DRIVEWAY THEY WERE REMOVED FROM.
- THE CONTRACTOR SHALL CAREFULLY REMOVE ALL FIRE HYDRANTS, HYDRANT AUXILIARY, B-BOXES AND VALVES. ALL VALVES, B-BOXES AND HYDRANTS REMOVED FROM THIS PROJECT SHALL BE DELIVERED TO THE BUFFALO GROVE PUBLIC WORKS YARD AT 51 RAUPE BLVD OR AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING STRUCTURES TO REMAIN. ANY DAMAGED STRUCTURES DUE TO THE CONTRACTORS NEGLIGENCE SHALL BE REMOVED AND REPLACED AT THE EXPENSE OF THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.
- THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER A MINIMUM OF 48 HOURS AHEAD OF TIME FOR OPERATION OF ANY EXISTING VALVE OR HYDRANT BY THE VILLAGE. AT NO TIME SHALL THE CONTRACTOR OPERATE ANY EXISTING VALVES OR HYDRANTS. NON COMPLIANCE WITH THIS REQUIREMENT WILL RESULT IN A \$500 FINE PER OCCURENCE AS DETERMINED BY THE ENGINEER.
- THE CONTRACTOR SHALL REMOVE ALL SAWCUT SLURRY PROMPTLY TO PREVENT TRACKING ONTOP SURFACES TO REMAIN. ANY SLURRY TRACKED OR LEFT ON SURFACES TO REMAIN SHALL BE THOROUGHLY CLEANED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE VILLAGE.

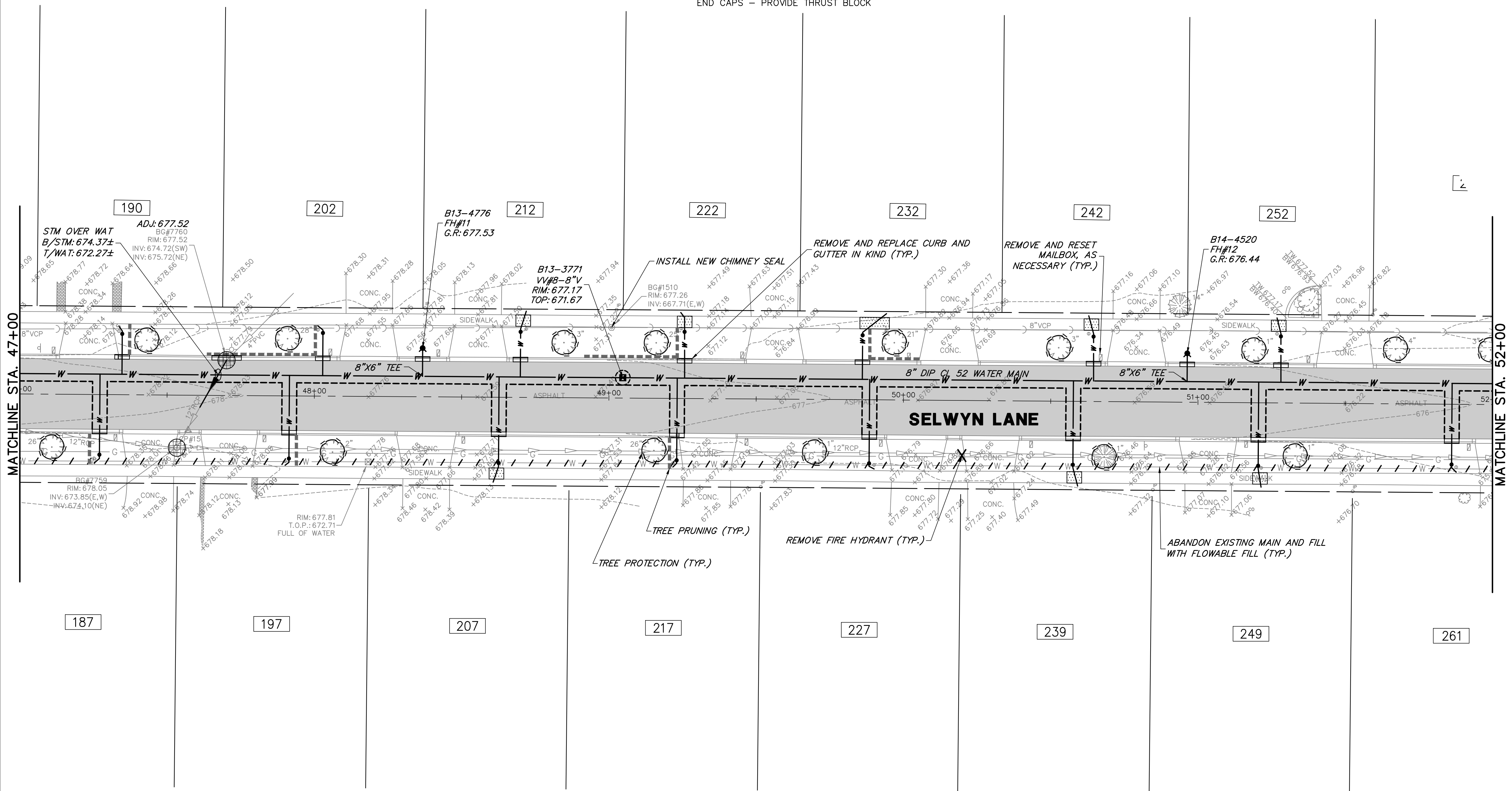
IMPROVEMENTS NOTES:

- ANY SIDEWALK INSTALLED THAT DOES NOT MEET THE ADA CODE SHALL BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE. THE COST OF COMPLYING WITH THIS REQUIREMENT IS CONSIDERED INCLUDED IN THE CONTRACT.
- ALL RESIDENTIAL DRIVEWAYS SHALL BE POURED NO LATER THAN THE DAY AFTER THE CURB IS INSTALLED. REFER TO THE SPECIAL PROVISIONS FOR FURTHER REQUIREMENTS.
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 45 DEGREE HORIZONTAL BEND - 15'
 22.5 DEGREE HORIZONTAL BEND - 10'
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 TEES - PROVIDE THRUST BLOCK
 PRESSURE CONNECTIONS - PROVIDE THRUST BLOCK
 END CAPS - PROVIDE THRUST BLOCK
- THE USE OF 90 DEGREE BENDS IS NOT ALLOWED UNLESS PRIOR WRITTEN APPROVAL IS GIVEN BY THE ENGINEER.
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- ALL WATER MAIN CAPS ON THE EXISTING MAIN SHALL BE INSTALLED REGARDLESS OF THE COMPLETE SHUTDOWN CAPABILITY OF THE EXISTING VALVE.
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PROPOSED LEGEND

- HMA RECONSTRUCTION
- HMA RESURFACING
- PCC PAVEMENT
- PCC SIDEWALK
- CLASS D PATCH
- DETECTABLE WARNINGS
- M3.12 CURB & GUTTER (REGULAR)
- M3.12 CURB & GUTTER (DEPRESSED)
- HMA SURFACE REMOVAL - BUTT JOINT
- PAVEMENT SAWCUT
- ADJ:### STRUCTURE ADJUSTMENT
- TREE TRUNK PROTECTION FENCE
- STRUCTURE TO BE ADJUSTED
- STRUCTURE TO BE REMOVED
- UTILITY TO BE ABANDONED
- TREE ROOT PRUNING
- STRUCTURE TO BE ABANDONED
- STRUCTURE REMOVAL
- INLET FILTERS
- HOUSE ADDRESS



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 625 Forest Edge Drive ■ Vernon Hills, IL. 60061
 TEL 847.478.9700 ■ FAX 847.478.9701

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SELWYN LANE STATION 47+00 - 52+00
2020 SAXON/DOWNING WATER & STREET IMPROVEMENTS
VARIOUS LOCATIONS
VILLAGE OF BUFFALO GROVE, ILLINOIS 60089

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE 4798.043 PR-1.dwg	SHEET NUMBER:
DRAWN BY: PCL	4798.043
DATE: 02/13/20	11
CHECKED BY: LXM	OF 19 SHEETS
DATE: 02/13/20	SCALE: 1" = 20'

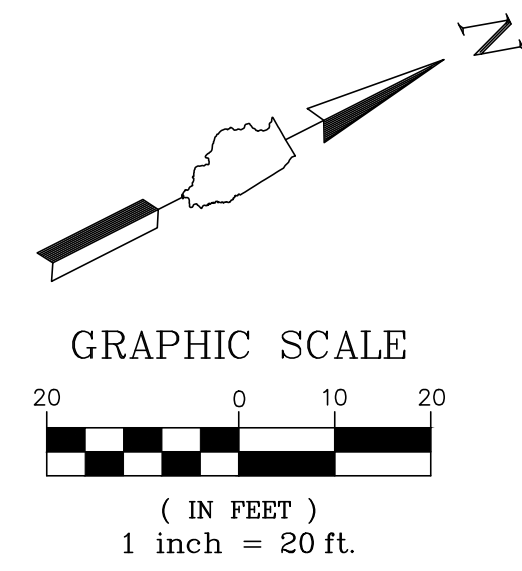
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- THE CONTRACTOR SHALL REMOVE ALL SAWCUT SLURRY PROMPTLY TO PREVENT TRACKING ONTO SURFACES TO REMAIN. ANY SLURRY TRACKED OR LEFT ON SURFACES TO REMAIN SHALL BE THOROUGHLY CLEANED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE VILLAGE.

IMPROVEMENTS NOTES:

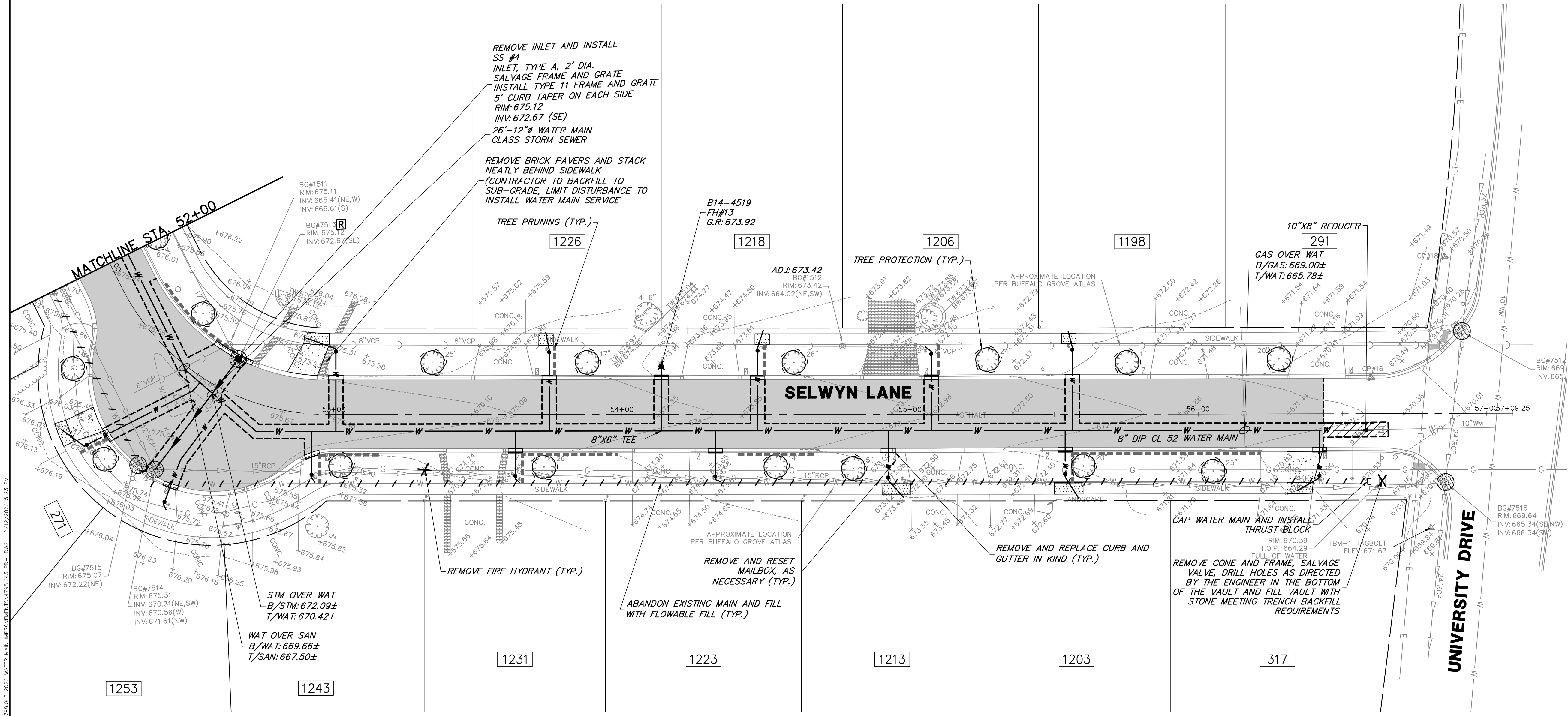
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 - 45 DEGREE HORIZONTAL BEND - 15'
 - 22.5 DEGREE HORIZONTAL BEND - 10'
 - 45 DEGREE VERTICAL OFFSET - 25'
 - TEES - PROVIDE THRUST BLOCK
 - PRESSURE CONNECTIONS - PROVIDE THRUST BLOCK
 - END CAPS - PROVIDE THRUST BLOCK

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- PRIOR TO REPLACING CURB AND GUTTER INSTALL 12" AGGREGATE SUBGRADE IMPROVEMENT.



PROPOSED LEGEND

- HMA RECONSTRUCTION
- HMA RESURFACING
- PCC PAVEMENT
- PCC SIDEWALK
- CLASS D PATCH
- DETECTABLE WARNINGS
- M3.12 CURB & GUTTER (REGULAR)
- M3.12 CURB & GUTTER (DEPRESSED)
- HMA SURFACE REMOVAL - BUTT JOINT
- PAVEMENT SAWCUT
- ADJ:#### STRUCTURE ADJUSTMENT
- TREE TRUNK PROTECTION FENCE
- ADJ STRUCTURE TO BE ADJUSTED
- STRUCTURE TO BE REMOVED
- UTILITY TO BE ABANDONED
- TREE ROOT PRUNING
- STRUCTURE TO BE ABANDONED
- STRUCTURE REMOVAL
- INLET FILTERS
- 1234 HOUSE ADDRESS



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 TEL 847.478.9700 ■ FAX 847.478.9701

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SELWYN LANE STATION 52+00 - 57+09
2020 SAXON/DOWNING WATER & STREET IMPROVEMENTS
VARIOUS LOCATIONS
VILLAGE OF BUFFALO GROVE, ILLINOIS 60089

NO.	BY	DATE	REVISION

FILE: 4798.043 PR-1.dwg	SHEET NUMBER:
DRAWN BY: PCL	GHA PROJECT #
DATE: 02/13/20	4798.043
CHECKED BY: LXM	SCALE:
DATE: 02/13/20	1" = 20'
	OF 19 SHEETS

12

DEMOLITION NOTES:

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- THE CONTRACTOR SHALL REMOVE ALL SAWCUT SLURRY PROMPTLY TO PREVENT TRACKING ON TOP SURFACES TO REMAIN. ANY SLURRY TRACKED OR LEFT ON SURFACES TO REMAIN SHALL BE THOROUGHLY CLEANED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE VILLAGE.

IMPROVEMENTS NOTES:

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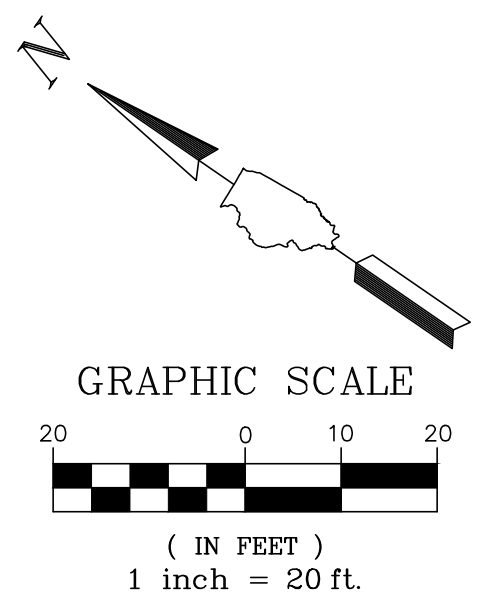
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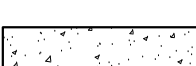
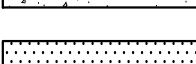
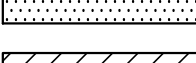
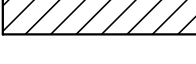

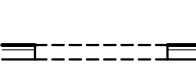

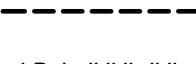
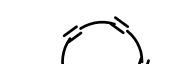




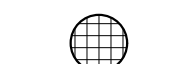
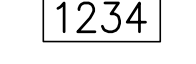



- ALL CURB AND GUTTER TO BE R&R THE CONTRACTOR SHALL REMOVE THE EXISTING CURB IN A MANNER TO SALVAGE THE EXISTING TIE BARS FOR RE-USE.

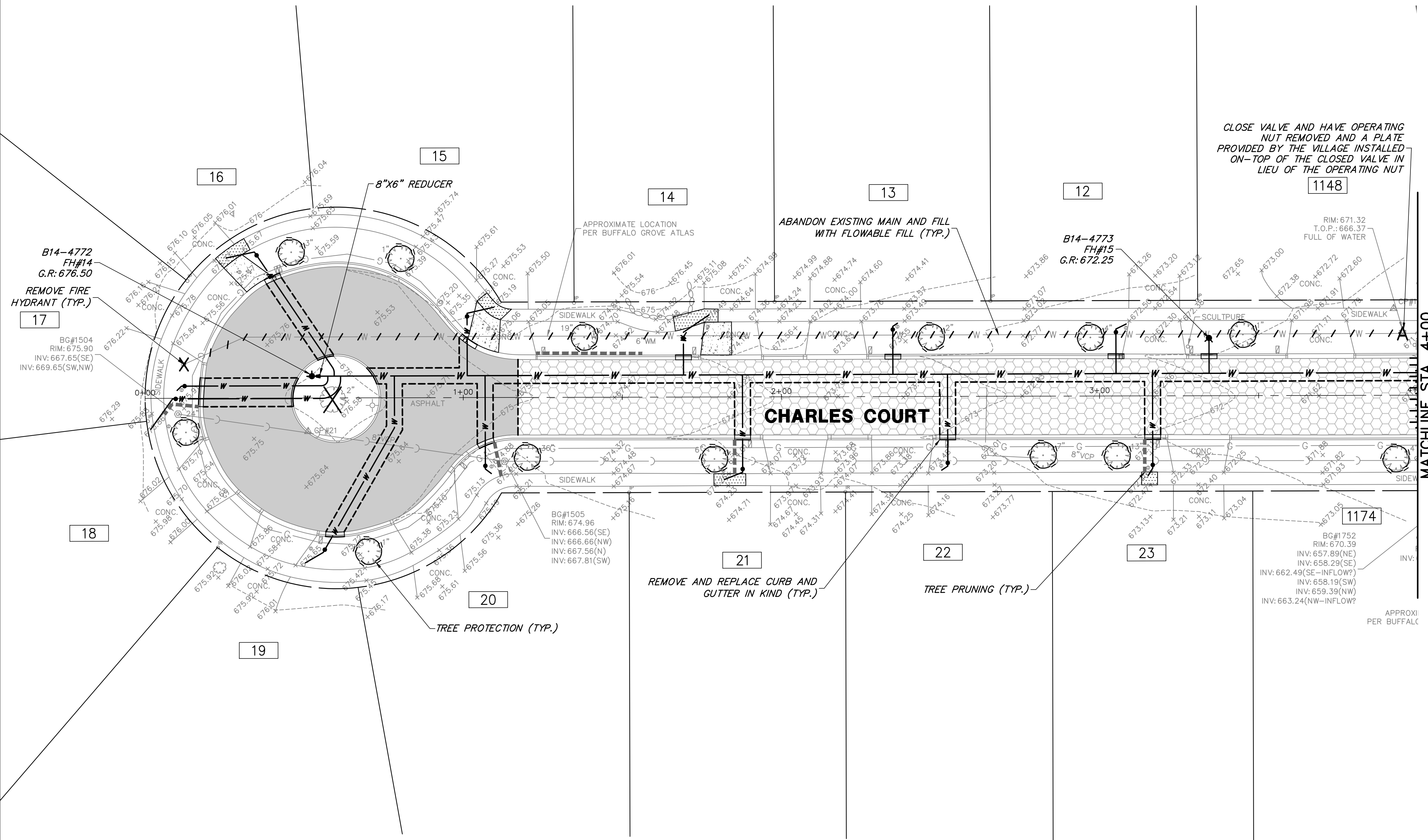
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- PRIOR TO REPLACING CURB AND GUTTER INSTALL 12" AGGREGATE SUBGRADE IMPROVEMENT.



PROPOSED LEGEND

-  HMA RECONSTRUCTION
-  HMA RESURFACING
-  PCC PAVEMENT
-  PCC SIDEWALK
-  CLASS D PATCH
-  DETECTABLE WARNINGS
-  M3.12 CURB & GUTTER (REGULAR)
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-  HMA SURFACE REMOVAL - BUTT JOINT
-  PAVEMENT SAWCUT
-  STRUCTURE ADJUSTMENT
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CHARLES COURT STATION 0+00 - 4+00
2020 SAXON/DOWNING WATER & STREET IMPROVEMENTS
VARIOUS LOCATIONS
VILLAGE OF BUFFALO GROVE, ILLINOIS 60089

NO.	BY	DATE	REVISION

FILE: 4798.043 PR-1.dwg	SHEET NUMBER:
DRAWN BY: PCL	4798.043
DATE: 02/13/20	
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DEMOLITION NOTES:

- RESIDENT ACCESS MUST BE MAINTAINED THROUGHOUT THE PROJECT. THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR MORE DETAILED REQUIREMENTS FOR RESIDENT ACCESS AND STAGING.
- BRICK PAVERS WITHIN THE VILLAGE RIGHT OF WAY THAT ARE DISTURBED AS PART OF THIS PROJECT SHALL BE REMOVED AND NEATLY STACKED ADJACENT TO THE DRIVEWAY THEY WERE REMOVED FROM.
- THE CONTRACTOR SHALL CAREFULLY REMOVE ALL FIRE HYDRANTS, HYDRANT AUXILIARY, B-BOXES AND VALVES. ALL VALVES, B-BOXES AND HYDRANTS REMOVED FROM THIS PROJECT SHALL BE DELIVERED TO THE BUFFALO GROVE PUBLIC WORKS YARD AT 51 RAUPE BLVD OR AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING STRUCTURES TO REMAIN. ANY DAMAGED STRUCTURES DUE TO THE CONTRACTORS NEGLIGENCE SHALL BE REMOVED AND REPLACED AT THE EXPENSE OF THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.
- THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER A MINIMUM OF 48 HOURS AHEAD OF TIME FOR OPERATION OF ANY EXISTING VALVE OR HYDRANT BY THE VILLAGE. AT NO TIME SHALL THE CONTRACTOR OPERATE ANY EXISTING VALVES OR HYDRANTS. NON COMPLIANCE WITH THIS REQUIREMENT WILL RESULT IN A \$500 FINE PER OCCURENCE AS DETERMINED BY THE ENGINEER.
- THE CONTRACTOR SHALL REMOVE ALL SAWCUT SLURRY PROMPTLY TO PREVENT TRACKING ONTOP SURFACES TO REMAIN. ANY SLURRY TRACKED OR LEFT ON SURFACES TO REMAIN SHALL BE THOROUGHLY CLEANED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE VILLAGE.

IMPROVEMENTS NOTES:

- ANY SIDEWALK INSTALLED THAT DOES NOT MEET THE ADA CODE SHALL BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE. THE COST OF COMPLYING WITH THIS REQUIREMENT IS CONSIDERED INCLUDED IN THE CONTRACT.
- ALL RESIDENTAL DRIVEWAYS SHALL BE POURED NO LATER THAN THE DAY AFTER THE CURB IS INSTALLED. REFER TO THE SPECIAL PROVISIONS FOR FURTHER REQUIREMENTS.
- THE CONTRACTOR SHALL TAKE CARE DURING CONSTRUCTION TO LIMIT THE DISTURBANCE FOR THE PROJECT. ALL DISTURBED AREAS SHALL BE RESTORED WITH VARIABLE DEPTH TOPSOIL, IDOT CLASS 1A SEED AND MULCH METHOD 3A. AREAS DISTURBED BY THE CONTRACTORS NEGLIGENCE SHALL BE RESTORED TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE VILLAGE.
- ALL CURB SHALL TAPER FOR A DISTANCE OF 2 FEET FROM FULL HEIGHT TO DEPRESSED CURB UNLESS OTHERWISE MARKED IN THE FIELD.
- ALL MAILBOXES DISTURBED AS PART OF THIS PROJECT SHALL BE RESET AT THE CONCLUSION OF THE DAY TO THE SATISFACTION OF THE ENGINEER & RESIDENT. THIS WORK IS CONSIDERED INCLUDED IN THE CONTRACT.
- REPLACEMENT TREES NOT SHOWN ON THE PLANS SHALL BE ADDED IN LOCATIONS AS DETERMINED BY THE ENGINEER IN THE FIELD.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING LOCKING GASKETS ADJACENT TO ALL BENDS AND FITTINGS IN ACCORDANCE WITH THE RESTRAINED JOINT MANUFACTURER AND THE FOLLOWING DISTANCES FROM THE FITTING. THE COST OF THE LOCKING GASKETS SHALL BE INCLUDED IN THE COST OF THE WATER MAIN.
 - 45 DEGREE HORIZONTAL BEND - 15'
 - 22.5 DEGREE HORIZONTAL BEND - 10'
 - 45 DEGREE VERTICAL OFFSET - 25'
 - TEES - PROVIDE THRUST BLOCK
 - PRESSURE CONNECTIONS - PROVIDE THRUST BLOCK
 - END CAPS - PROVIDE THRUST BLOCK

- THE USE OF 90 DEGREE BENDS IS NOT ALLOWED UNLESS PRIOR WRITTEN APPROVAL IS GIVEN BY THE ENGINEER.

- ALL VALVES TO BE ABANDONED IN PLACE SHALL HAVE THE VALVE CLOSED. HAVE THE OPERATING NUT REMOVED AND A PLATE PROVIDED BY THE VILLAGE INSTALLED ON-TOP OF THE CLOSED VALVE IN LIEU OF THE OPERATING NUT.

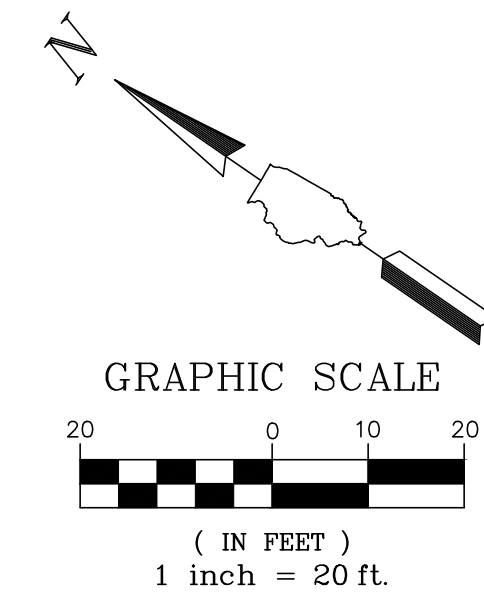
- ALL WATER MAIN CAPS ON THE EXISTING MAIN SHALL BE INSTALLED REGARDLESS OF THE COMPLETE SHUTDOWN CAPABILITY OF THE EXISTING VALVE.

- ALL SERVICE TAPS MUST BE A MINIMUM OF 2' FROM ANY FITTINGS, BELLS, OR SERVICE TAPS.

- ALL CURB AND GUTTER TO BE R&R THE CONTRACTOR SHALL REMOVE THE EXISTING CURB IN A MANNER TO SALVAGE THE EXISTING TIE BARS FOR RE-USE.

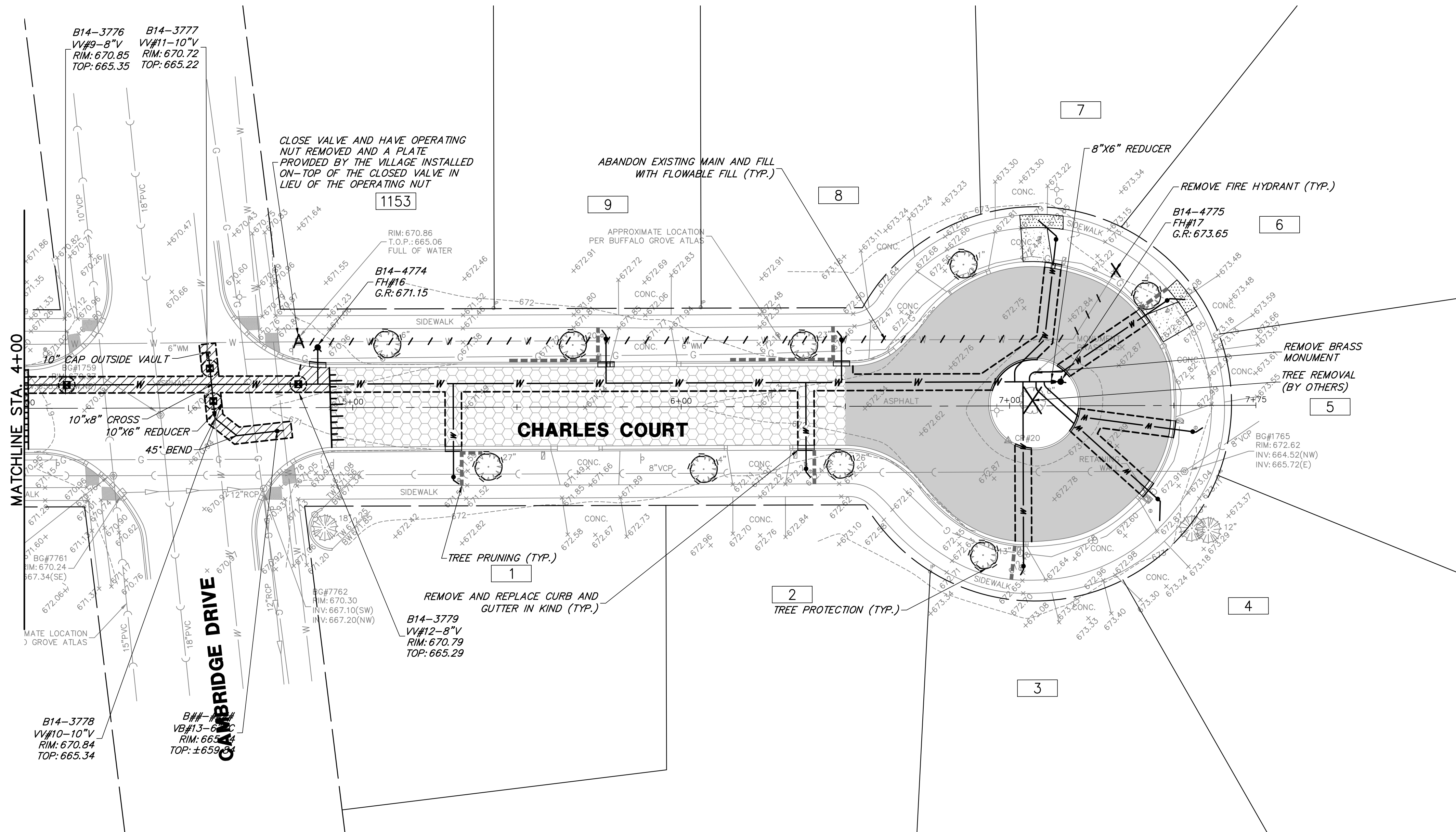
- ANY DAMAGED TIE BARS SHALL BE REPLACED PER ARTICLE 420.05 (B)

- PRIOR TO REPLACING CURB AND GUTTER INSTALL 12" AGGREGATE SUBGRADE IMPROVEMENT.



PROPOSED LEGEND

- HMA RECONSTRUCTION
- HMA RESURFACING
- PCC PAVEMENT
- PCC SIDEWALK
- CLASS D PATCH
- DETECTABLE WARNINGS
- M3.12 CURB & GUTTER (REGULAR)
- M3.12 CURB & GUTTER (DEPRESSED)
- HMA SURFACE REMOVAL - BUTT JOINT
- PAVEMENT SAWCUT
- STRUCTURE ADJUSTMENT
- TREE TRUNK PROTECTION FENCE
- STRUCTURE TO BE ADJUSTED
- STRUCTURE TO BE REMOVED
- UTILITY TO BE ABANDONED
- TREE ROOT PRUNING
- STRUCTURE TO BE ABANDONED
- STRUCTURE REMOVAL
- INLET FILTERS
- HOUSE ADDRESS



NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE: 4798.043 PR-1.dwg	
DRAWN BY: PCL	GHA PROJECT #
DATE: 02/13/20	4798.043
CHECKED BY: LXM	SCALE:
DATE: 02/13/20	1" = 20'

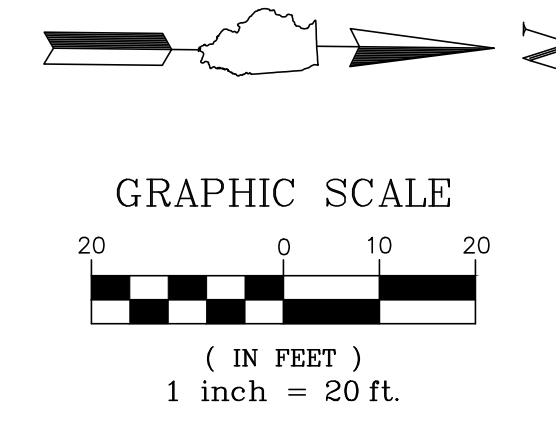
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- THE CONTRACTOR SHALL REMOVE ALL SAWCUT SLURRY PROMPTLY TO PREVENT TRACKING ON TOP SURFACES TO REMAIN. ANY SLURRY TRACKED OR LEFT ON SURFACES TO REMAIN SHALL BE THOROUGHLY CLEANED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE VILLAGE.

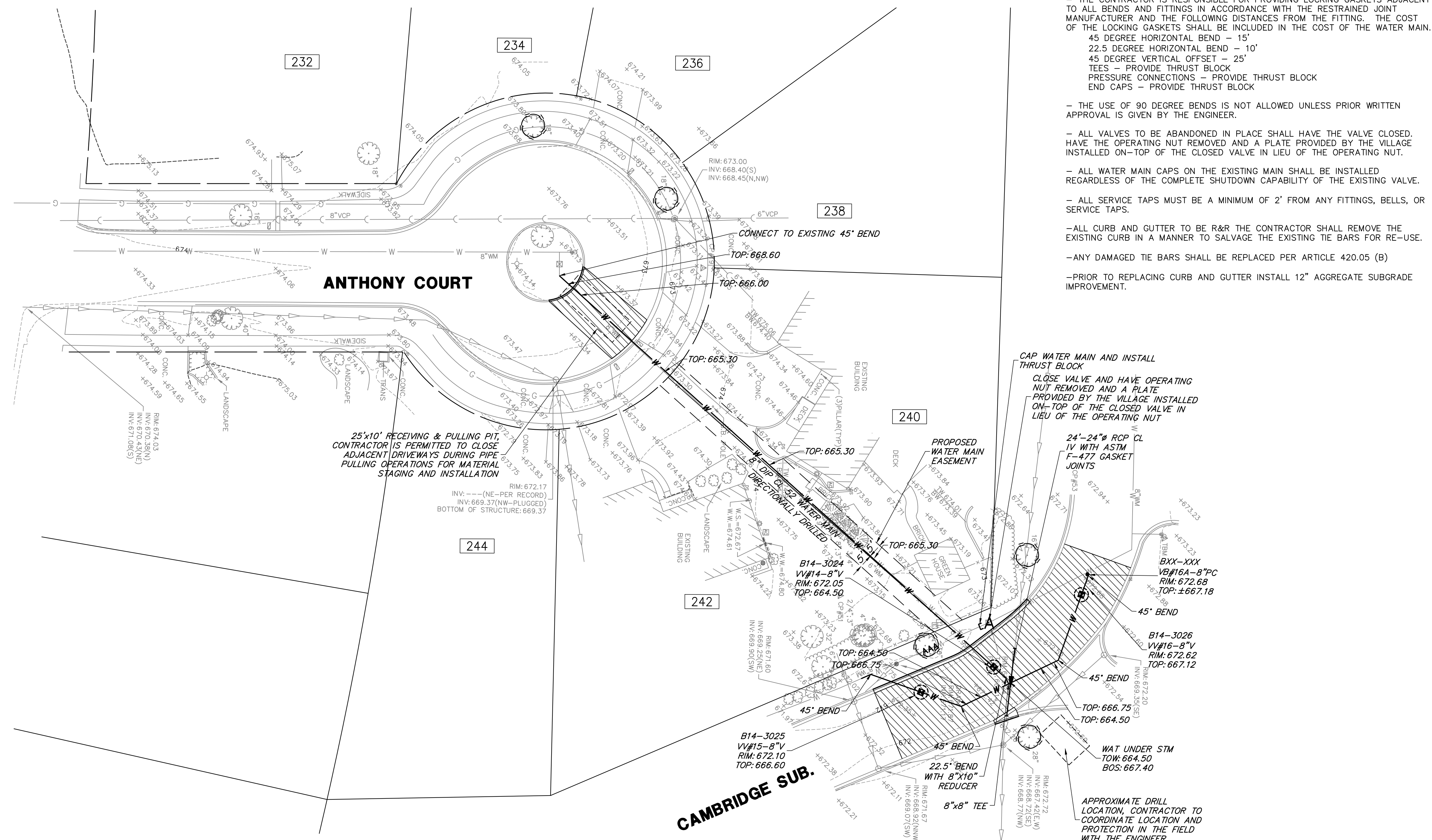
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PROPOSED LEGEND

- HMA RECONSTRUCTION
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- HOUSE ADDRESS



GHA GEWALT HAMILTON ASSOCIATES, INC.
 625 Forest Edge Drive ■ Vernon Hills, IL. 60061
 TEL 847.478.9700 ■ FAX 847.478.9701

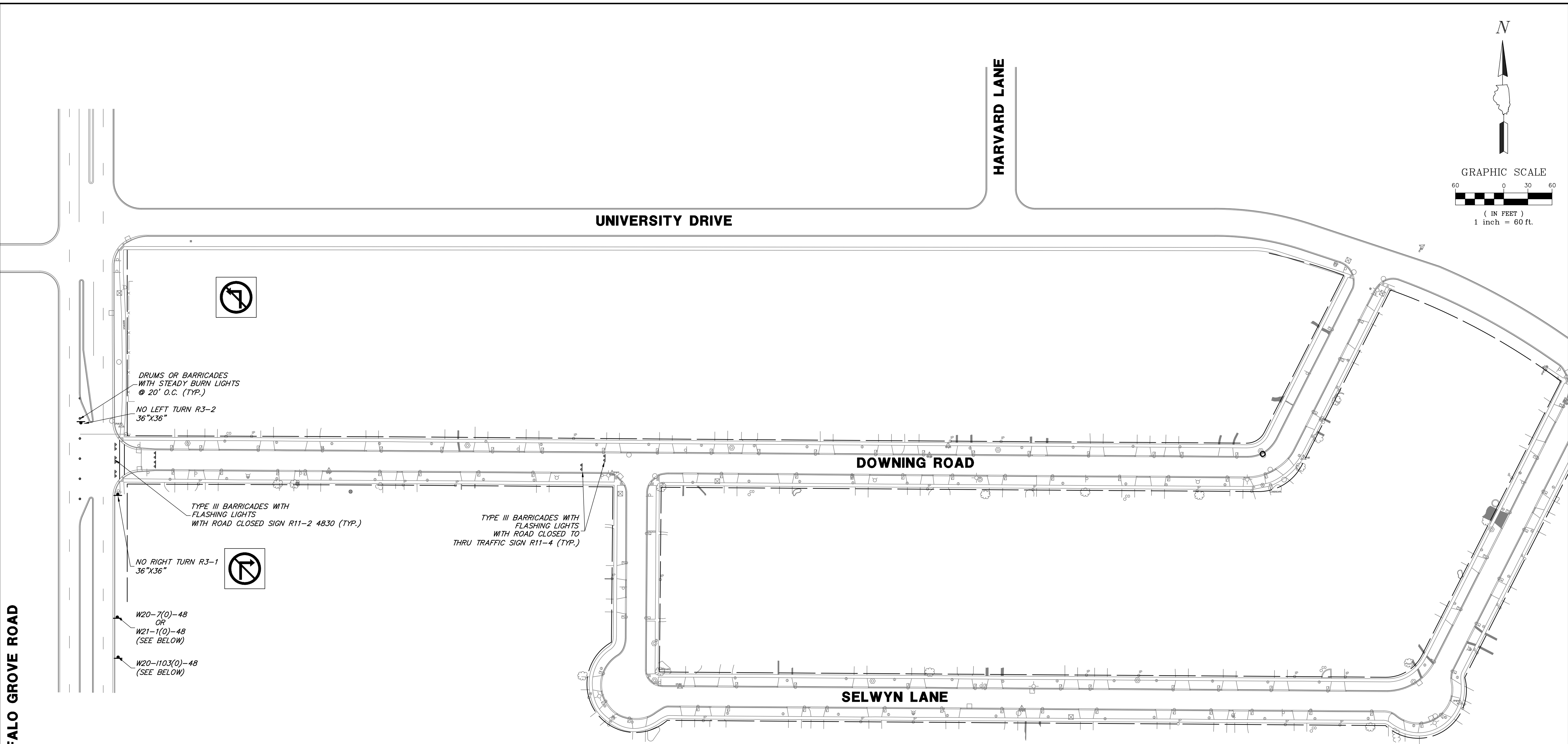
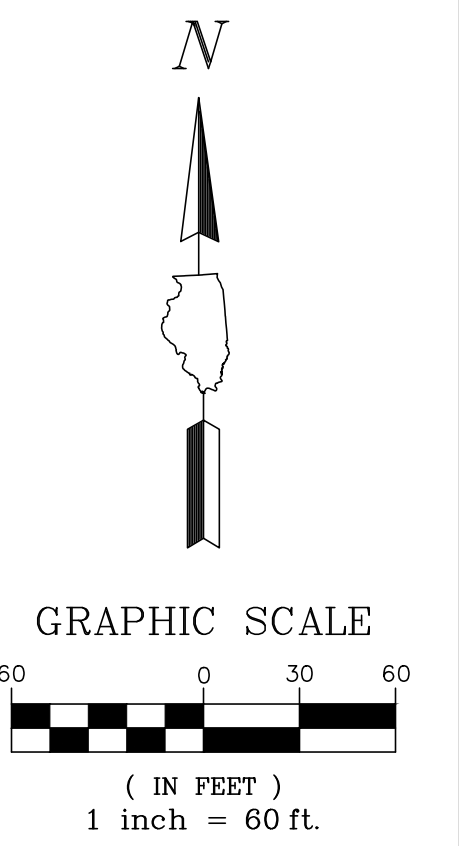
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ALTERNATE #1 - ANTHONY COURT
2020 SAXON/DOWNING WATER & STREET IMPROVEMENTS
VARIOUS LOCATIONS
VILLAGE OF BUFFALO GROVE, ILLINOIS 60089

NO.	BY	DATE	REVISION

FILE: 4798.043 PR-1.dwg	SHEET NUMBER:
DRAWN BY: PCL DATE: 02/13/20	GHA PROJECT # 4798.043
CHECKED BY: LXM DATE: 02/13/20	SCALE: 1" = 20'
	15
	OF 19 SHEETS

6/14/2024 3:28 PM BUFFALO GROVE V238-043-2020 WATER MAIN IMPROVEMENTS V238-043-PR-1.DWG 2/13/2020 5:24 PM



BUFFALO GROVE ROAD

TRAFFIC CONTROL NOTES:

1. ALL ADVANCED SIGNAGE SHALL REMAIN IN PLACE FOR THE DURATION OF THIS PROJECT. WORKERS AHEAD SIGN SHALL BE REMOVED OR COVERED WHEN NO WORK IS TAKING PLACE.

W20-7(0)-48
REMOVE WHEN WORKERS ARE NOT PRESENT



W20-1103(0)-48
DURATION OF PROJECT



W21-1(0)-48
REMOVE WHEN WORKERS ARE NOT PRESENT



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TEL 847.478.9700 ■ FAX 847.478.9701

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TRAFFIC CONTROL PLAN - DOWNING ROAD
2020 SAXON/DOWNING WATER & STREET IMPROVEMENTS
VARIOUS LOCATIONS
VILLAGE OF BUFFALO GROVE, ILLINOIS 60089

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE: 4798.043 PR-1.dwg	GHA PROJECT #
DRAWN BY: PCL	4798.043
DATE: 02/13/20	
CHECKED BY: LXM	SCALE:
DATE: 02/13/20	1" = 60'

SHEET NUMBER:
16
OF 19 SHEETS

G:\A\2020\2020 BUFFALO GROVE\4798-043-2020 WATER MAIN IMPROVEMENTS\4798-043-PR-1.DWG - 2/13/2020 5:24 PM



DETOUR GENERAL NOTES:

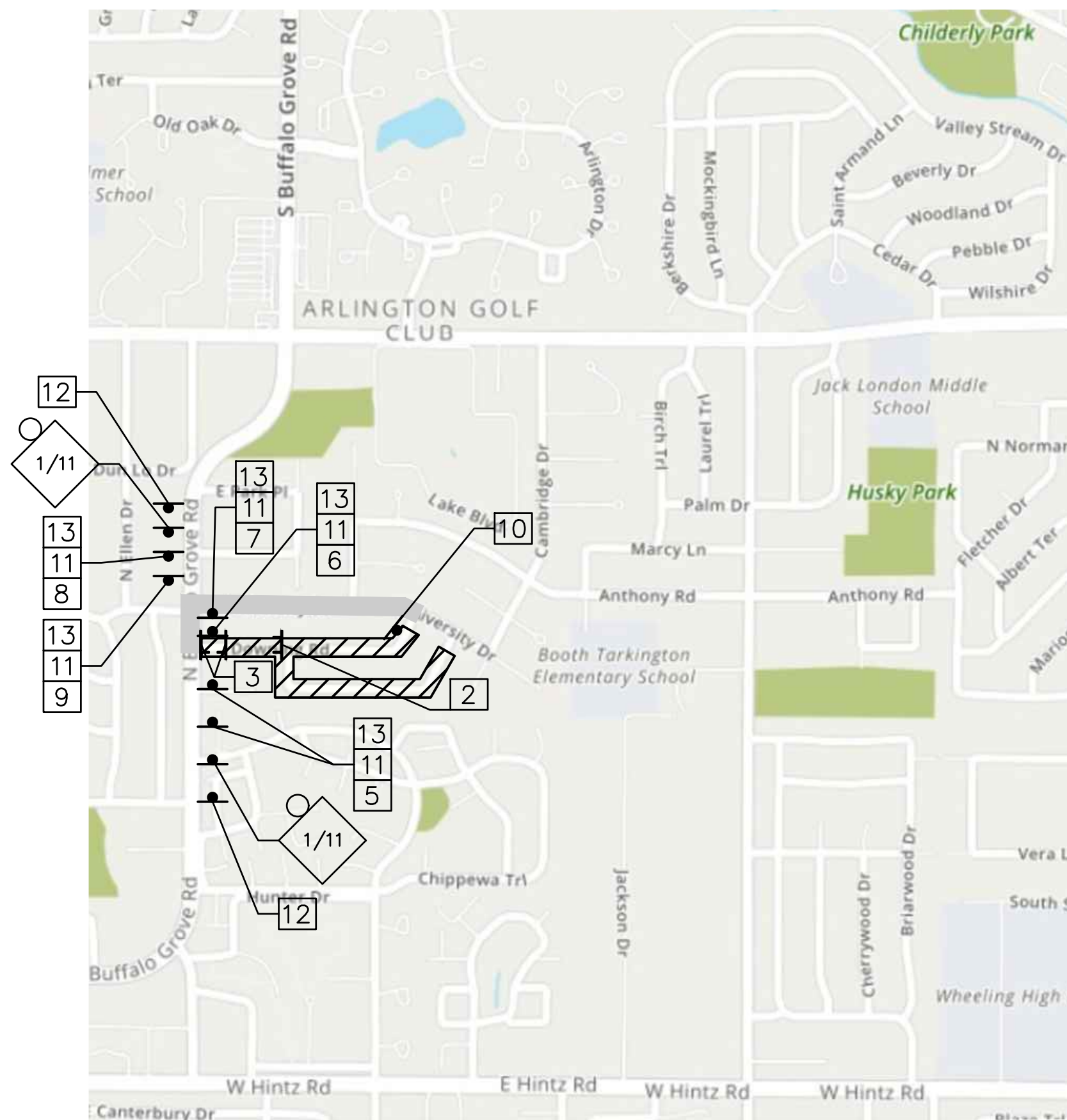
- All signing shall be in accordance with the applicable provisions of the state of Illinois "Standard Specifications for Road and Bridge Construction" adopted April 1, 2016. The quality standard for work zone traffic control devices adopted 1998, the details in these plans, the latest edition of the state of Illinois "Manual of Uniform Traffic Control Devices", the special provisions for traffic control and protection.
- The duration of this detour shall not exceed 7 consecutive calendar days. The contractor shall proceed with the work in an expedient manner to reduce the length of time that the detour needs to be in effect.
- The engineer shall be notified in writing at least three weeks prior to the day the detour is to be in effect. The engineer shall determine the hour of closure. The engineer will contact the appropriate local agencies and interested parties.
- If deemed necessary by the engineer a pre-construction meeting with the contractor shall be held at least two weeks prior to the day the detour is to be in effect.
- The contractor shall supply to the engineer the names and telephone numbers of his representative responsible for the detour signing prior to the start of the work.
- Longitudinal dimensions shown on these plans may be adjusted to fit field conditions, with the approval of the engineer.
- The road shall not be closed until all signing is erected in accordance with the detour plan and inspected and approved by the engineer.
- The contractor shall be responsible for ensuring that all barricades, signs, lights, and other devices installed by him are in place and operating 24 hours each day including Sundays and Holidays during the time the detour is in effect.
- All existing signing that is not applicable while the detour is in effect shall be completely covered by the contractor, in a manner approved by the engineer.
- All detour signing shall be post mounted.
- All detour signing except regulatory signs shall have black legends on fluorescent orange sheeting and standard black borders. The fluorescent orange reflective sheeting shall meet the requirements of Article 1084.02 of the standard specifications. All detour signing shall be new or like new condition. The engineer shall be the sole judge of the condition of the signs.
- The sizes of all signs not specified in these plans shall be as required by the Illinois manual on uniform traffic control devices.
- As a minimum, all amber flashing lights that are required for this detour shall meet the requirements for Type A-Low Intensity flashing lights in article 1084.01 of the standard specifications. All lights shall operate during the hours of darkness. Only lights that have been approved by the Illinois Department of Transportation shall be used.
- All barricades shall have reflectorized striping on both sides of the barricades. The type III barricades used at the point of closure to thru traffic shall not exceed 8 Feet (2.4m) in width each, for a single approach lane.
- The "Road Closed" (R11-2), the "Road Closed XX Miles ahead Local Traffic Only" (R11-3) and the "Road Closed to Thru Traffic" (R11-4) signs shall be mounted above the top of the barricade. All type III barricades shall have two (2) amber type A-Low Intensity flashing lights spaced near the centerline of the supports.
- The road name sign shall have a black legend on fluorescent orange reflective sheeting. The sign blank shall be a 9" (225 mm)X variable or a 12" (300 mm)X variable with design series C letters. The capital letters shall be 6" (150 mm) with 5" (125mm) lower case.
- During non-working hours at the point of road closure to all traffic the contractor shall provide a means to restrain the barricades from easy movement by vandals. The chosen method shall be approved by the engineer.
- Construction equipment shall not be parked immediately behind the Type III barricades during non-working hours. In any event Article 701.04 of the standard specifications shall apply.
- The contractor shall be responsible for maintaining the visibility of all detour and construction signing, including trimming back vegetation if deemed necessary.
- The following Illinois Department of Transportation standard is applicable for this work: STANDARD 701901
- The engineer shall be notified at least two (2) hours before the road is to be opened to traffic. The engineer will contact the appropriate local agencies and interested parties.

LEGEND

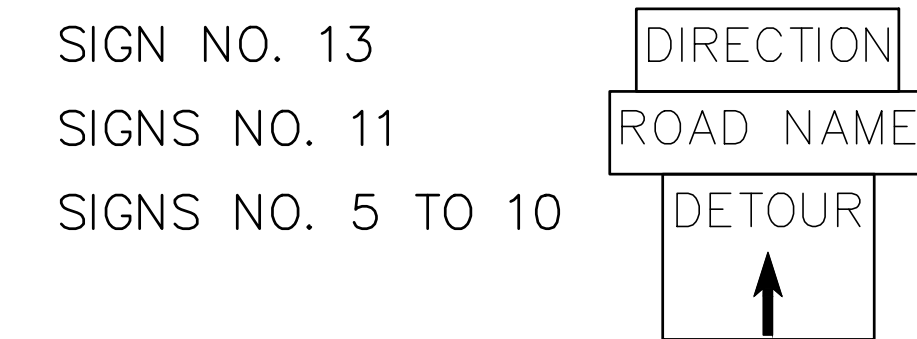
- 48"X48" CONSTRUCTION WARNING SIGN, WITH AMBER FLASHING LIGHT NUMBER DENOTES TYPE
- M4-9 SERIES DETOUR SIGN WITH ROAD NAME AND DIRECTION PLATES, NUMBER DENOTES TYPE
- OTHER DETOUR SIGNS, NUMBER DENOTES TYPE
- TYPE III BARRICADE WITH AMBER FLASHING LIGHTS
- DETOUR ROUTE
- WORK ZONE

SCHEDULE OF QUANTITIES

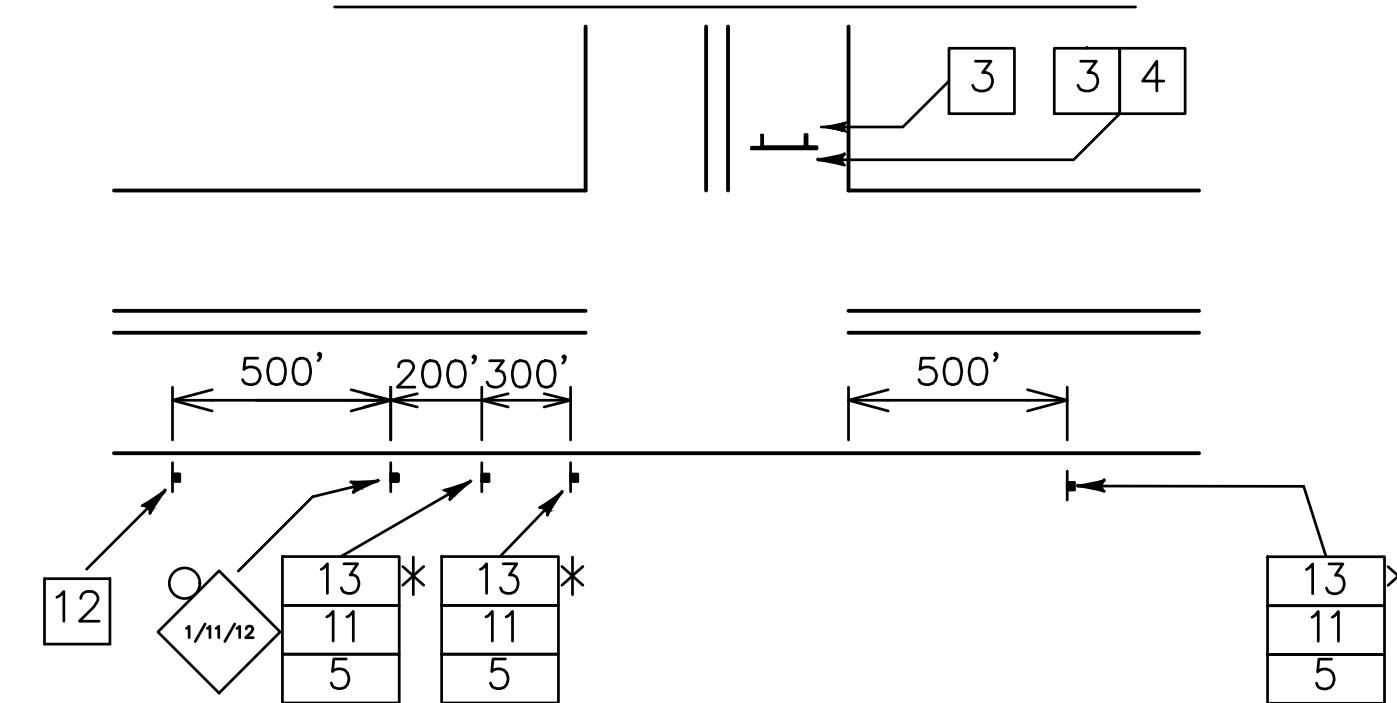
SIGN NO.	SIGN	SIGN TYPE	BID QUANTITY
1		W20-2 (O) 48	2
2		R11-4	1
3		R11-2 4830	2
4		M4-10L (O) 4818	1
5		M4-9 (O) 3021	2
6		M4-9R (O) 3021	1
7		M4-9R (O) 3021	1
8		M4-9L (O) 3021	1
9		M4-9L (O) 3021	1
10		M4-8a (O) 2418	1
11		SPECIAL (O) 9 VARIABLE	6
12		SPECIAL (O) 6030	2
13		M3-2 (O) 2412	4



TYPICAL DETOUR ASSEMBLY SIGN



TYPICAL INTERSECTION AT POINT OF DETOUR



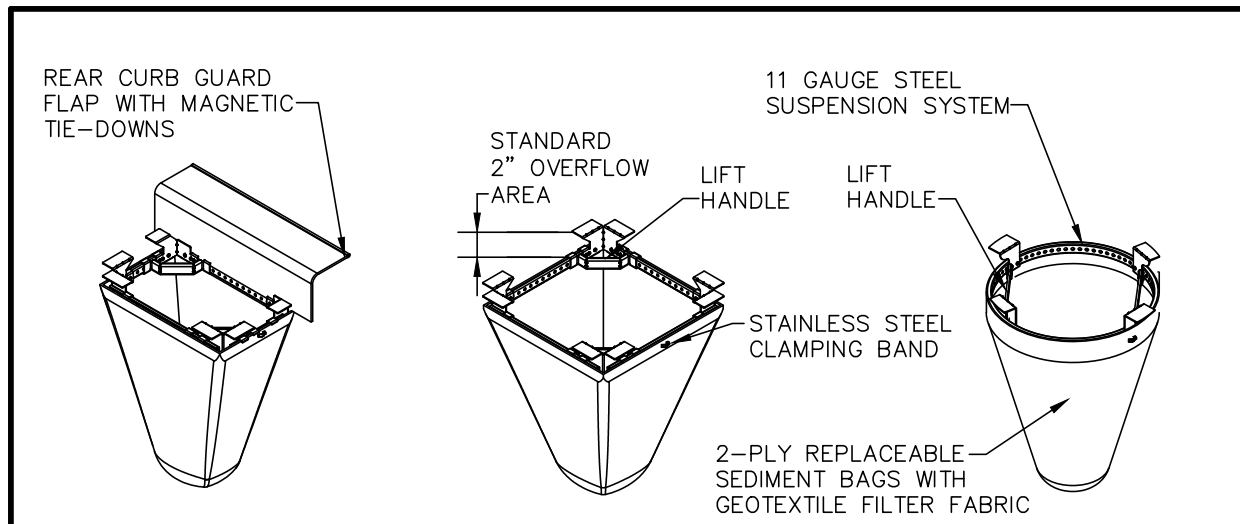
*DISTANCES APPLY TO ALL M4-9 SERIES SIGNS

SPECIAL DETOUR NOTES:

- DURING THE CONSTRUCTION ALONG BUFFALO GROVE ROAD, BUFFALO GROVE ROAD SHALL REMAIN OPEN TO TRAFFIC AT ALL TIMES EXCEPT AT DOWNING ROAD AS SHOWN ON THE PLANS. IF ANY ACTIVITY THAT REQUIRES ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC, THAT ACTIVITY SHALL NOT BE ALLOWED WITHIN THE PEAK PERIODS OF 6:00 AM - 9:00 AM AND 3:00 PM - 6:00 PM AND SHALL FOLLOW THE APPLICABLE IDOT AND IDOT-DISTRICT 1 TRAFFIC CONTROL STANDARDS INCLUDED IN THE PLANS FOR A DAYTIME LANE CLOSURE USING FLAGGERS.
- IF ANY EXISTING PAVEMENT MARKINGS AND/OR SIGNAGE ALONG BUFFALO GROVE ROAD ARE/IS DISTURBED DUE TO CONSTRUCTION OF THESE IMPROVEMENTS, THE CONTRACTOR SHALL REPLACE THESE DISTURBED TRAFFIC CONTROL DEVICES TO THE SATISFACTION OF THE DEPARTMENT.
- THE CONTRACTOR IS REQUIRED TO NOTIFY THE COOK COUNTY DEPARTMENT OF TRANSPORTATION AND HIGHWAYS, CONSTRUCTION BUREAU AT 312-603-16910, TEN (10) DAYS PRIOR TO CLOSURE OF DOWNING ROAD ALONG BUFFALO GROVE ROAD.

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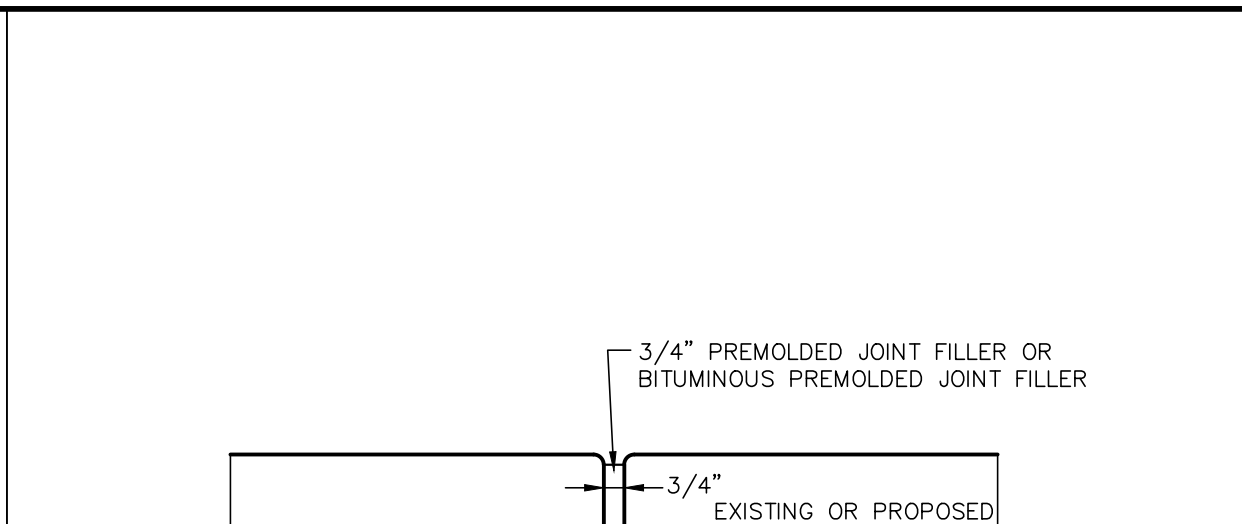
NO.	BY	DATE	REVISION



TYPICAL CURB BOX INLET FILTER TYPICAL FLAT/RECTANGULAR/ROLLED CURB INLET FILTER TYPICAL ROUND INLET FILTER

Material Property	Test Method	Value (min. ave.)
> Inner Filter Bag Specs (21\"/>		

GEWALT HAMILTON ASSOCIATES, INC. INLET FILTER BASKET DETAIL



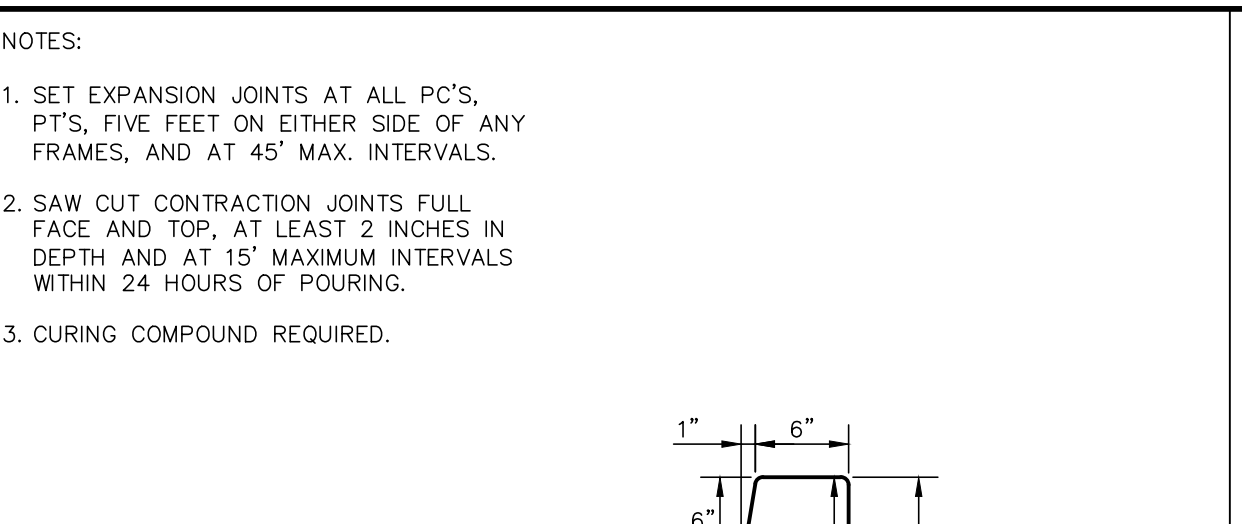
EXPANSION JOINT DETAIL

1. CLEAN OUT AFTER EVERY RAIN EVENT

ACCEPTABLE MANUFACTURER'S AS LISTED BELOW:

- INLET & PIPE PROTECTION, INC., Naperville, IL 60564 847 722-0690
- MARATHON MATERIALS, INC., Plainfield, IL 60544 800-983-9493

GEWALT HAMILTON ASSOCIATES, INC. EXPANSION JOINT DETAIL

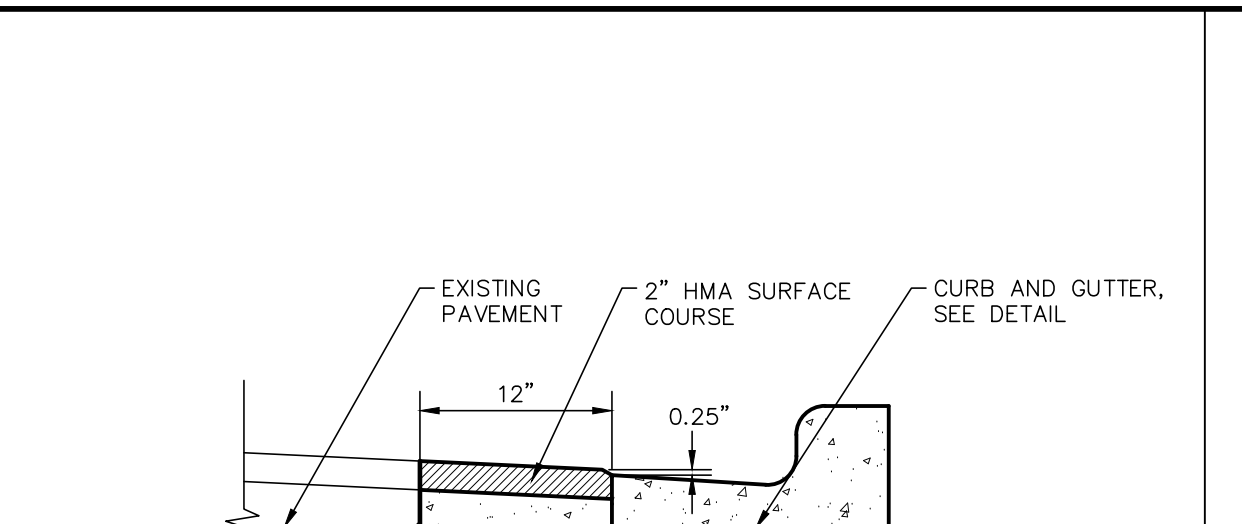


VERTICAL CURB

NOTES:

- SET EXPANSION JOINTS AT ALL PC'S, PT'S, FIVE FEET ON EITHER SIDE OF ANY FRAMES, AND AT 45' MAX. INTERVALS.
- SAW CUT CONTRACTION JOINTS FULL FACE AND TOP, AT LEAST 2 INCHES IN DEPTH AND AT 15' MAXIMUM INTERVALS WITHIN 24 HOURS OF POURING.
- CURING COMPOUND REQUIRED.

GEWALT HAMILTON ASSOCIATES, INC. VERTICAL CURB



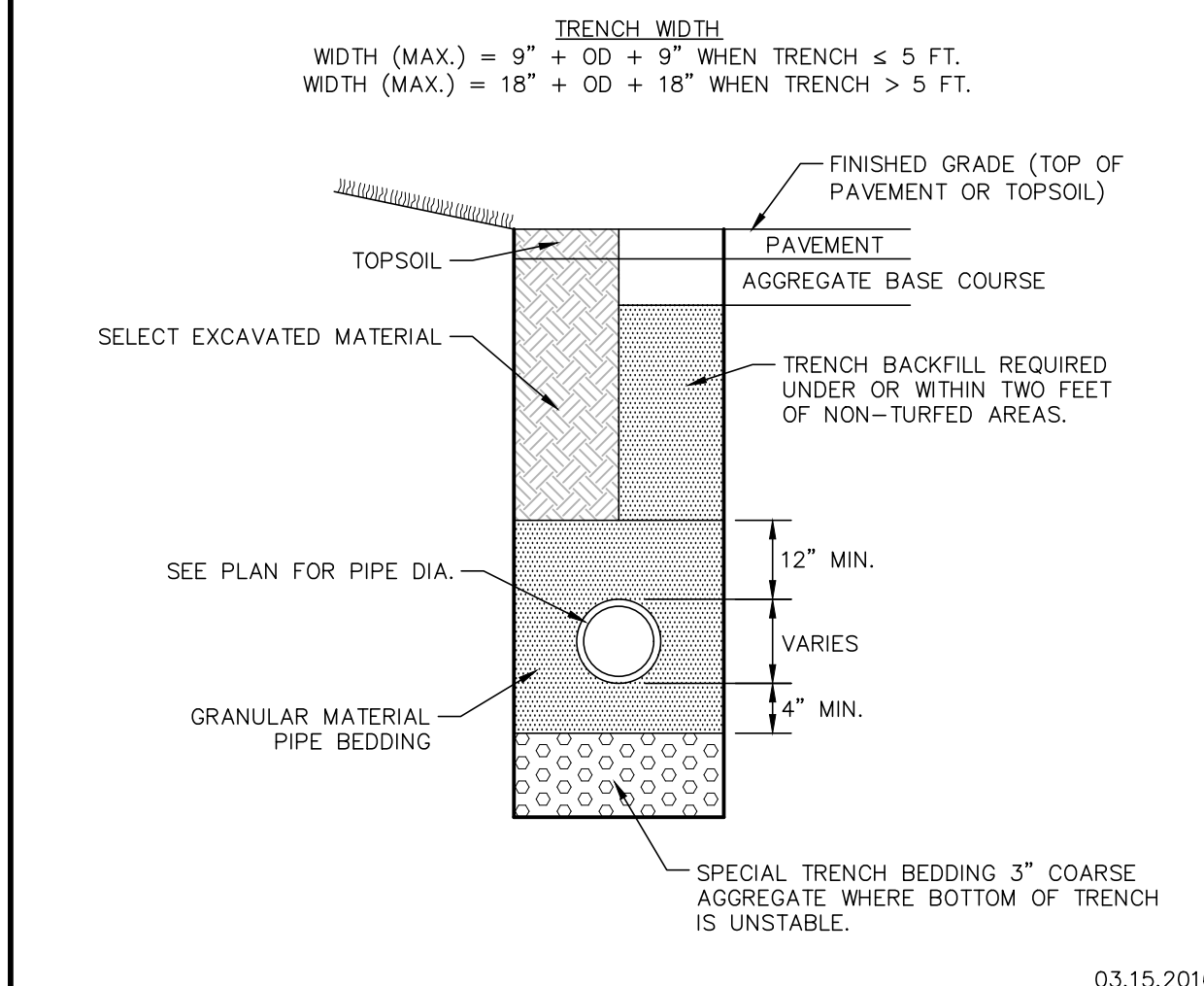
PAVEMENT PATCH FOR NEW CURB INSTALLATION

NOTES:

- MACHINE CORE CIRCULAR OPENING IN STRUCTURE WALL OF DIAMETER TO FIT THE REQUIRED BOOT SIZE PER MANUFACTURER'S RECOMMENDATION.
- OUT SHAPE AND SLOPE NEW INVERT CHANNEL IN THE EXISTING CONCRETE BENCH FOR SMOOTH FLOW FROM/TO NEW CONNECTION.
- CLEAN EXISTING STRUCTURE AND SEWER PIPE OF ANY DIRT CONCRETE OR DEBRIS WHICH MAY ACCUMULATE DURING THE CONSTRUCTION PROCESS.
- RESILIENT WATERTIGHT SLEEVE WITH STAINLESS STEEL TRIM PER ASTM C-923.
- FILL VOID BETWEEN BOOT AND PIPE WITH MORTAR.

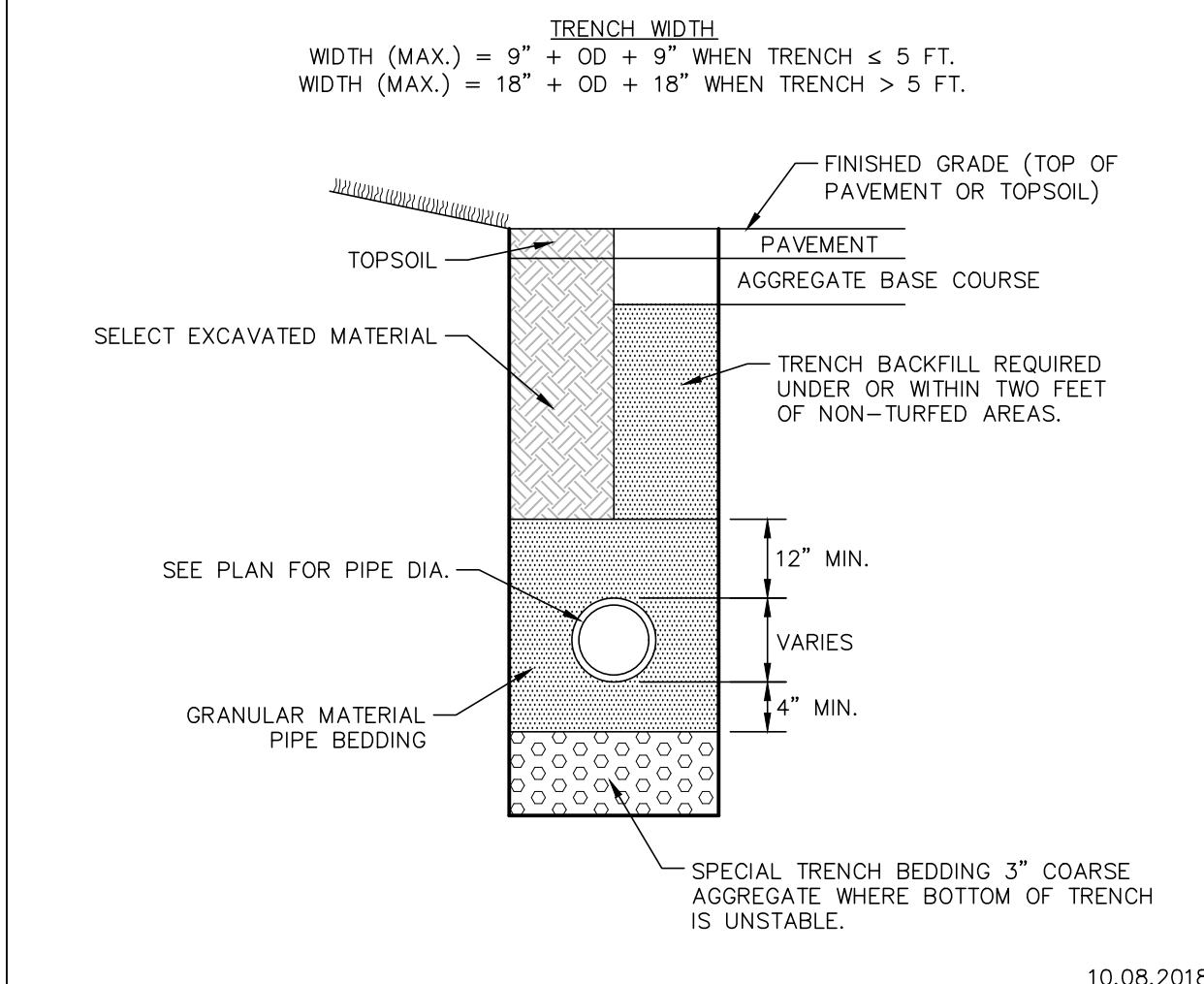
GEWALT HAMILTON ASSOCIATES, INC. PAVEMENT PATCH FOR NEW CURB INSTALLATION

NOTE: SEE SANITARY TABLE FOR MATERIAL REQUIREMENTS.



GEWALT HAMILTON ASSOCIATES, INC. SANITARY TRENCH DETAIL

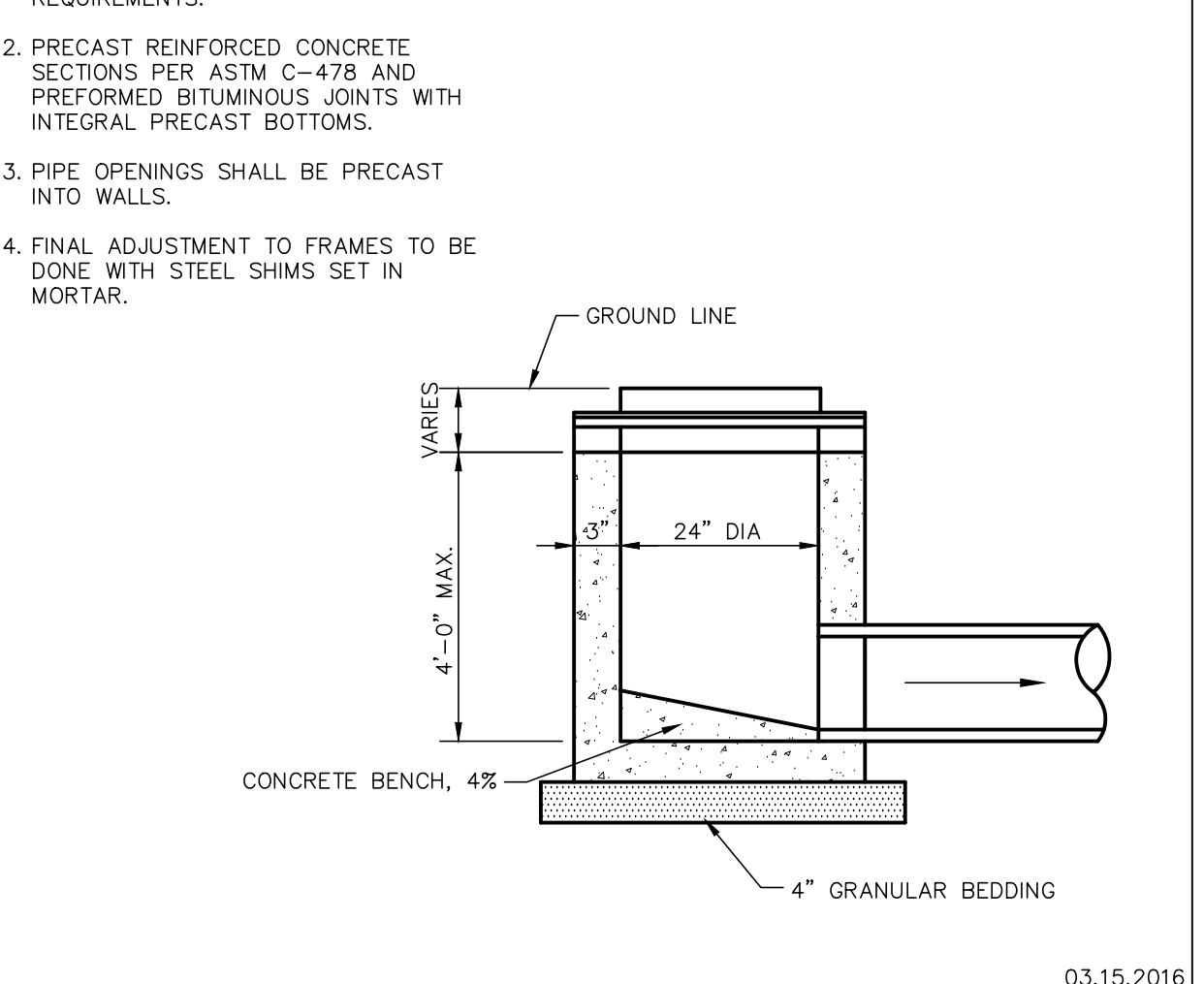
NOTE: SEE STORM TABLE FOR MATERIAL REQUIREMENTS.



GEWALT HAMILTON ASSOCIATES, INC. STORM TRENCH DETAIL FLEXIBLE PIPE INSTALLATION

NOTE:

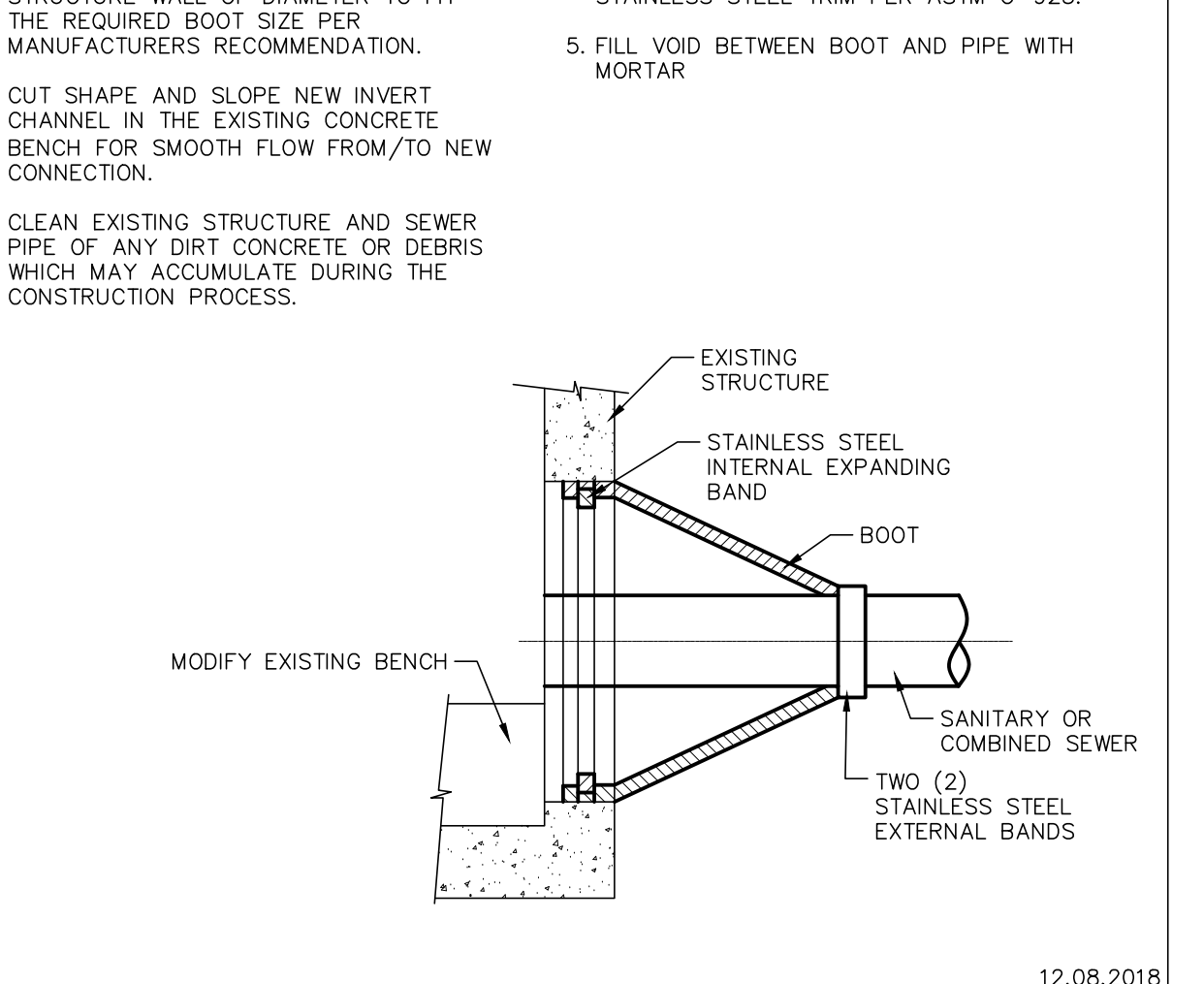
- SEE STORM TABLE FOR FURTHER REQUIREMENTS.
- PRECAST REINFORCED CONCRETE SECTIONS PER ASTM C-478 AND PERFORMED BITUMINOUS JOINTS WITH INTEGRAL PRECAST BOTTOMS.
- PIPE OPENINGS SHALL BE PRECAST INTO WALLS.
- FINAL ADJUSTMENT TO FRAMES TO BE DONE WITH STEEL SHIMS SET IN MORTAR.



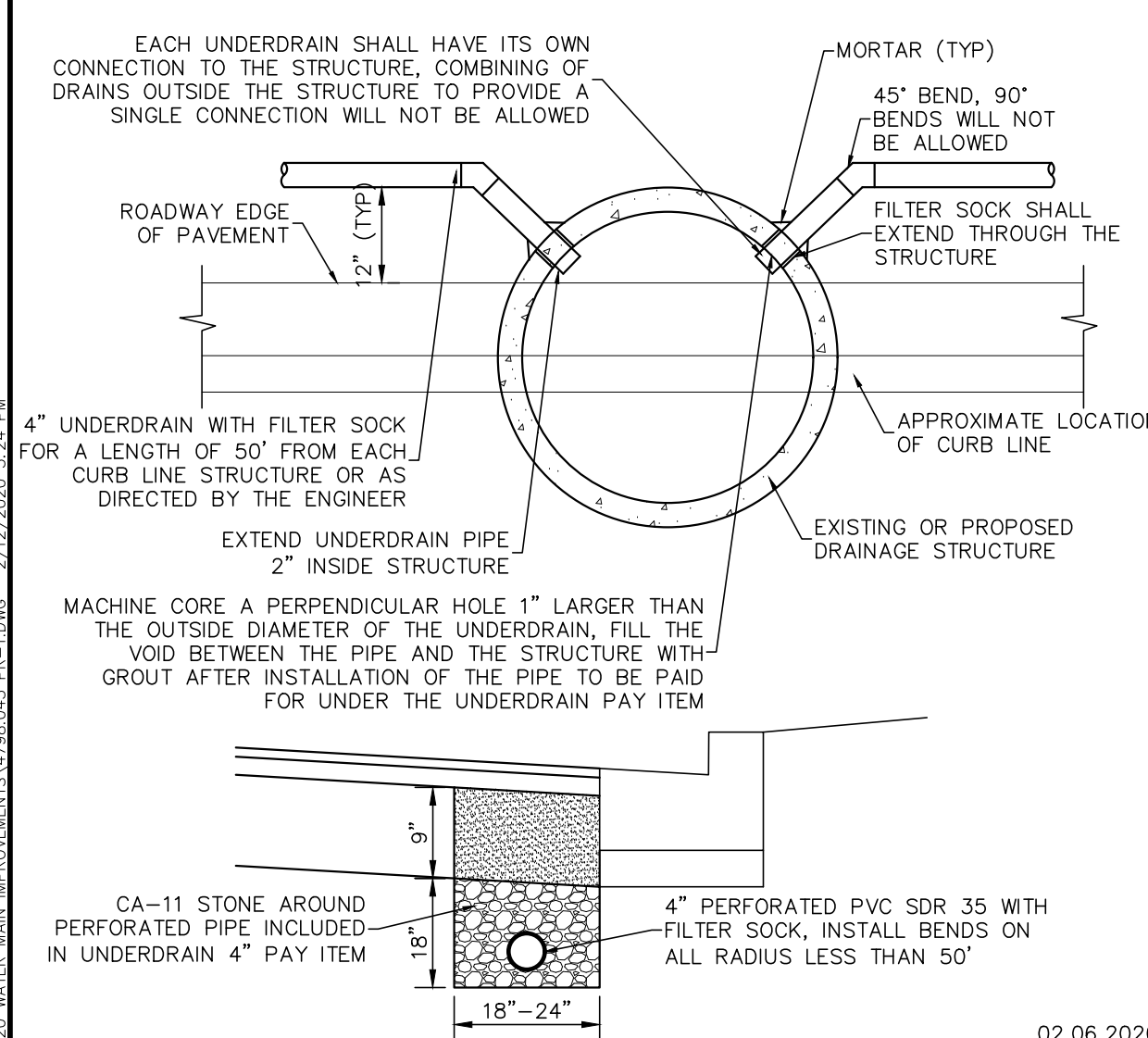
GEWALT HAMILTON ASSOCIATES, INC. INLET TYPE A

NOTE:

- MACHINE CORE CIRCULAR OPENING IN STRUCTURE WALL OF DIAMETER TO FIT THE REQUIRED BOOT SIZE PER MANUFACTURER'S RECOMMENDATION.
- OUT SHAPE AND SLOPE NEW INVERT CHANNEL IN THE EXISTING CONCRETE BENCH FOR SMOOTH FLOW FROM/TO NEW CONNECTION.
- CLEAN EXISTING STRUCTURE AND SEWER PIPE OF ANY DIRT CONCRETE OR DEBRIS WHICH MAY ACCUMULATE DURING THE CONSTRUCTION PROCESS.
- RESILIENT WATERTIGHT SLEEVE WITH STAINLESS STEEL TRIM PER ASTM C-923.
- FILL VOID BETWEEN BOOT AND PIPE WITH MORTAR.

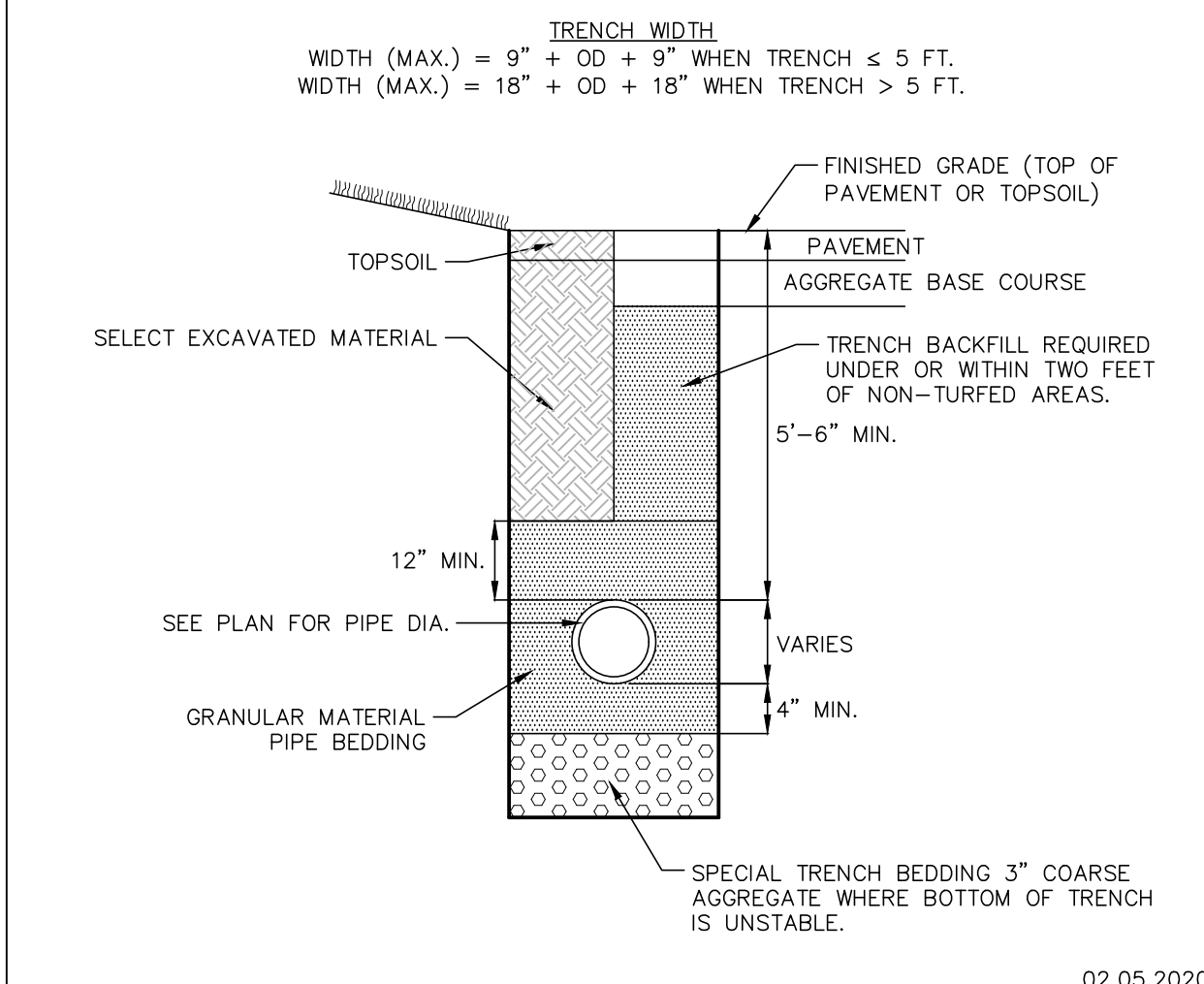


GEWALT HAMILTON ASSOCIATES, INC. SANITARY OR COMBINED SEWER PIPE CONNECTION TO EXISTING STRUCTURE DETAIL



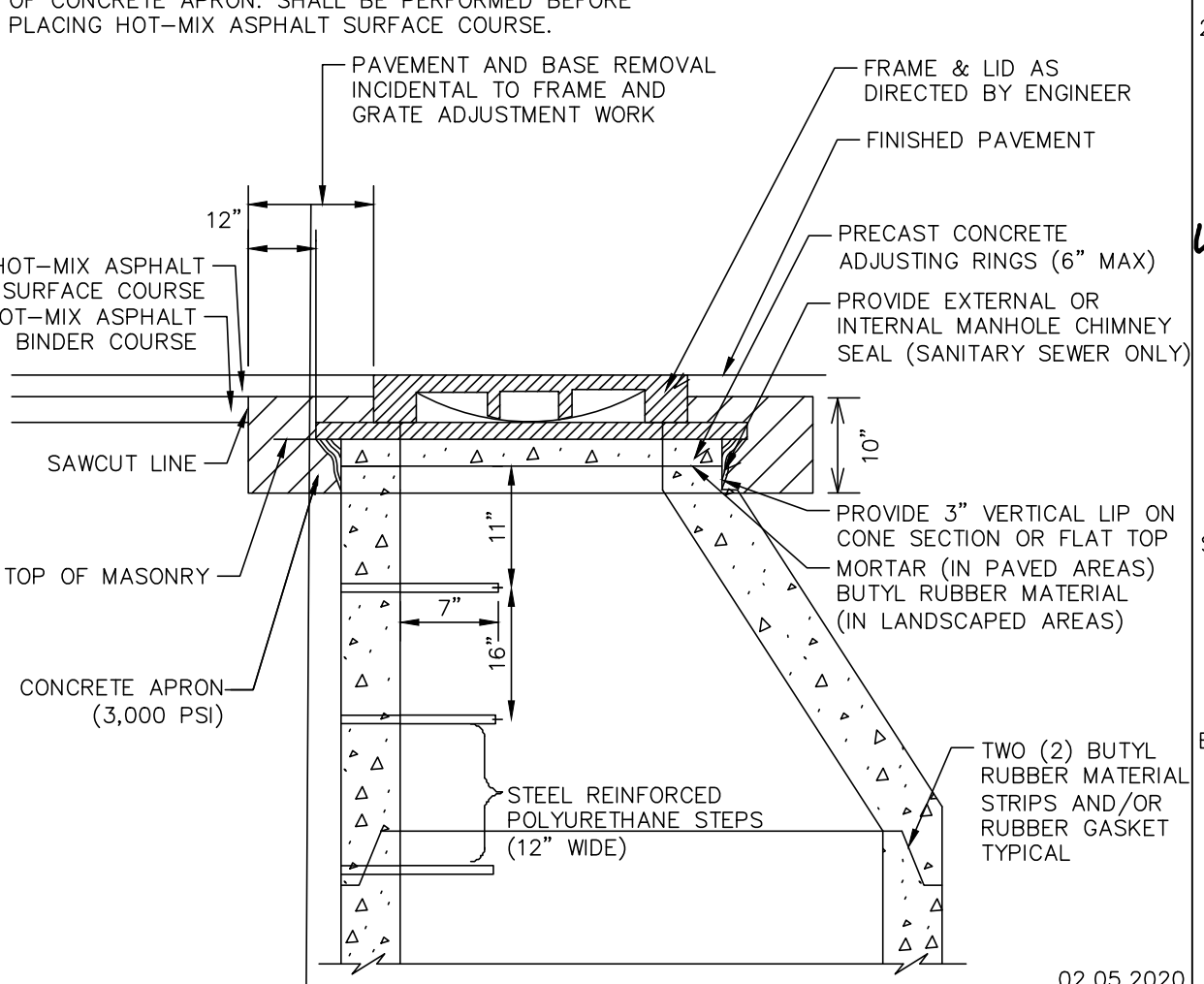
GEWALT HAMILTON ASSOCIATES, INC. UNDERDRAIN IN FRONT OF CURB INSTALLATION

NOTE: SEE WATER TABLE FOR MATERIAL REQUIREMENTS.



GEWALT HAMILTON ASSOCIATES, INC. WATER MAIN TRENCH DETAIL

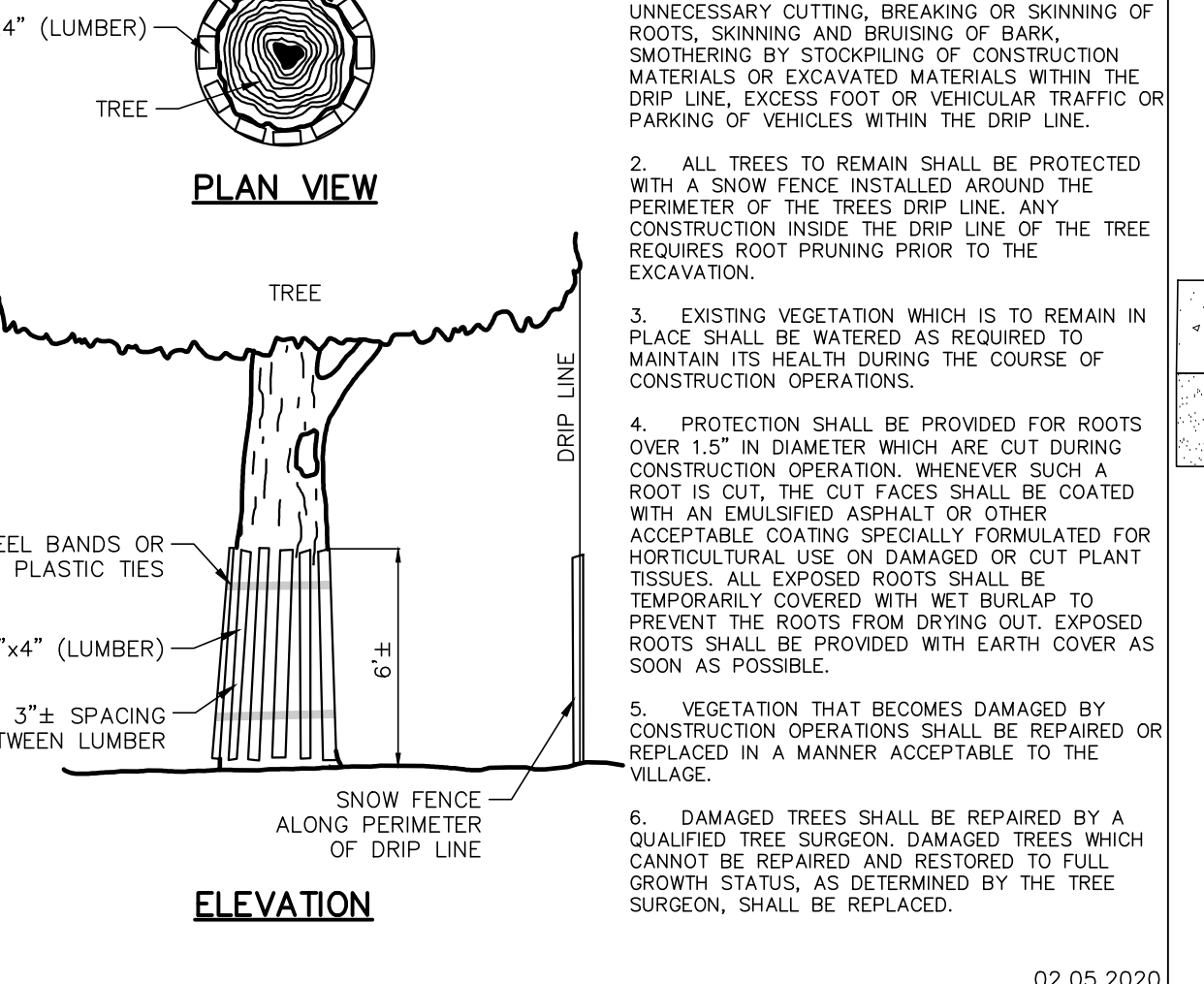
NOTE: THE REQUIRED MANHOLE FRAME AND GRATE ADJUSTMENTS, DUE TO THE PAVEMENT RESURFACING, INCLUDING POURING OF CONCRETE APRON, SHALL BE PERFORMED BEFORE PLACING HOT-MIX ASPHALT SURFACE COURSE.



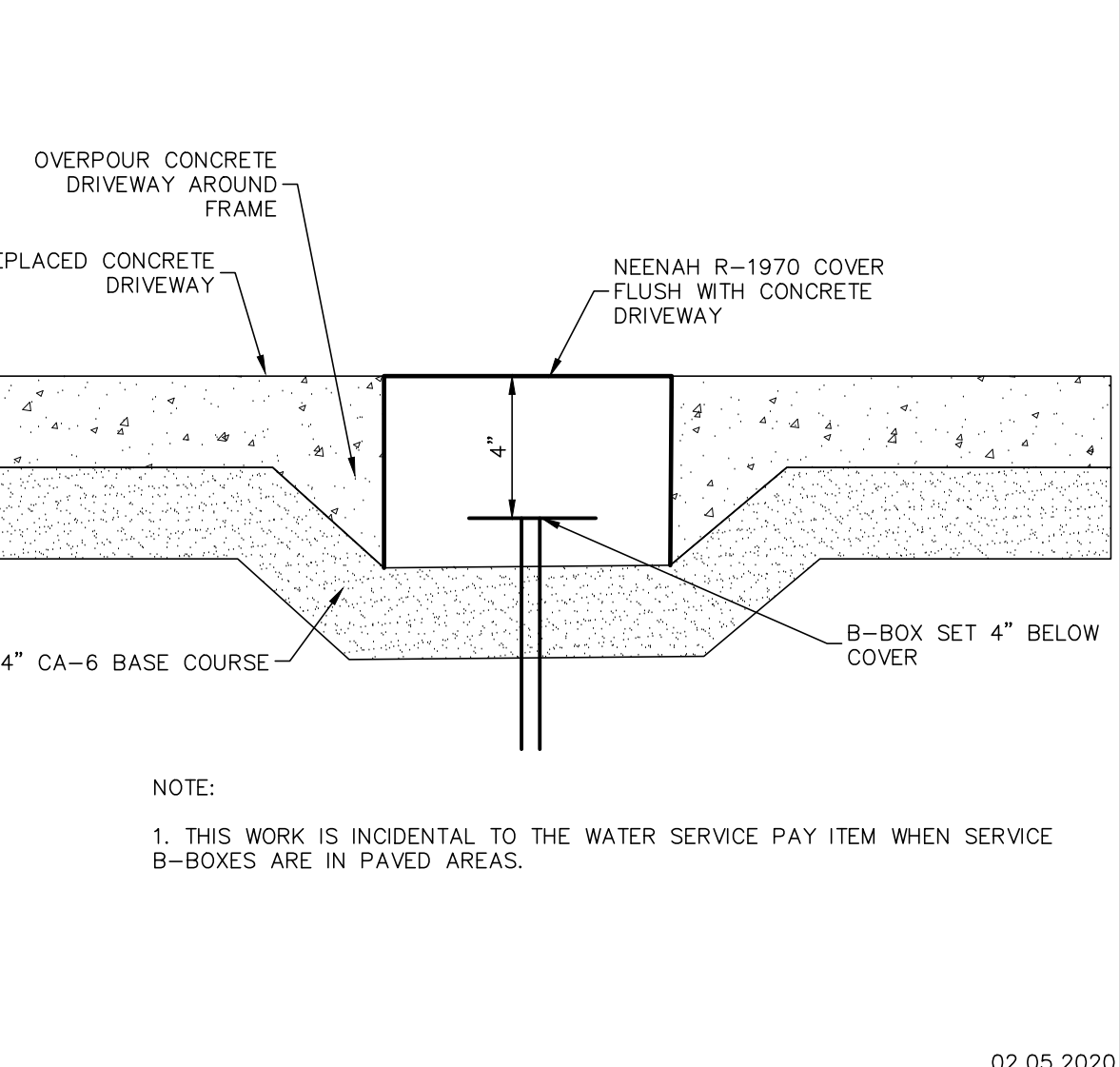
GEWALT HAMILTON ASSOCIATES, INC. STRUCTURE FRAME & GRATE ADJUSTMENT DETAIL

NOTE:

- EXISTING VEGETATION WHICH IS TO REMAIN IN PLACE SHALL BE PROTECTED AGAINST UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS, SKINNING AND BRUISING OF BARK, SMOTHERING BY STOCKPILING OF CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS WITHIN THE DRIP LINE, EXCESS FOOT OR VEHICULAR TRAFFIC OR PARKING OF VEHICLES WITHIN THE DRIP LINE.
- ALL TREES TO REMAIN SHALL BE PROTECTED WITH A SNOW FENCE INSTALLED AROUND THE PERIMETER OF THE TREE'S DRIP LINE. ANY CONSTRUCTION INSIDE THE DRIP LINE OF THE TREE REQUIRES ROOT PRUNING PRIOR TO THE EXCAVATION.
- EXISTING VEGETATION WHICH IS TO REMAIN IN PLACE SHALL BE WATERED AS REQUIRED TO MAINTAIN ITS HEALTH DURING THE COURSE OF CONSTRUCTION OPERATIONS.
- PROTECTION SHALL BE PROVIDED FOR ROOTS OVER 1.5\"/>



GEWALT HAMILTON ASSOCIATES, INC. TREE PROTECTION DETAIL



GEWALT HAMILTON ASSOCIATES, INC. WATER SERVICE IN DRIVEWAY DETAIL

GEWALT HAMILTON ASSOCIATES, INC.
625 Forest Edge Drive ■ Vernon Hills, IL. 60061
TEL 847.478.9700 ■ FAX 847.478.9701

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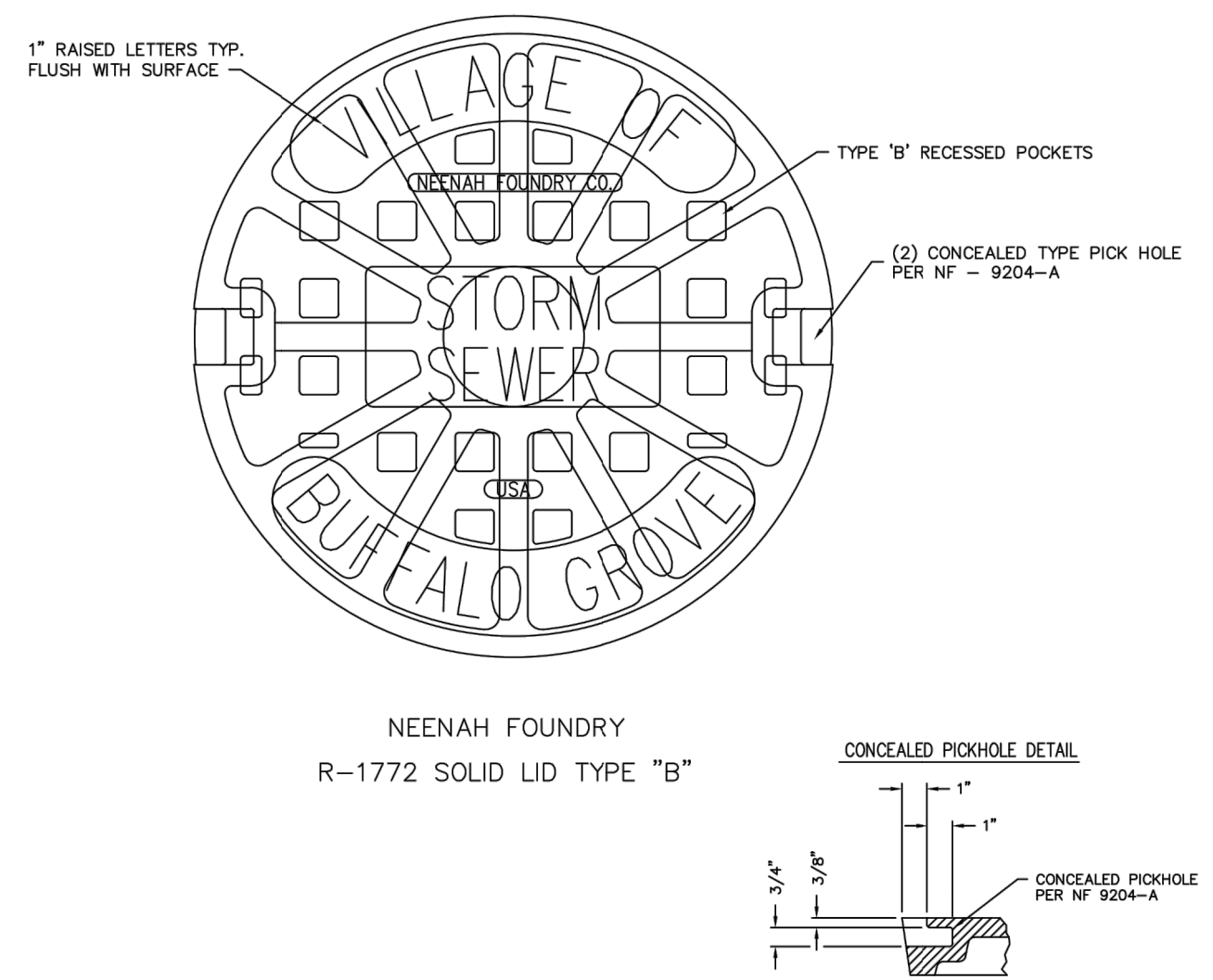
DETAILS
2020 SAXON/DOWNING WATER & STREET IMPROVEMENTS
VARIOUS LOCATIONS
VILLAGE OF BUFFALO GROVE, ILLINOIS 60089

NO.	BY	DATE	REVISION

NO.	BY	DATE	REVISION

FILE: 4798.043 PR-1.dwg	SHEET NUMBER:
DRAWN BY: PCL	18
DATE: 02/13/20	GHA PROJECT # 4798.043
CHECKED BY: LXM	SCALE: N.T.S.
DATE: 02/13/20	OF 19 SHEETS

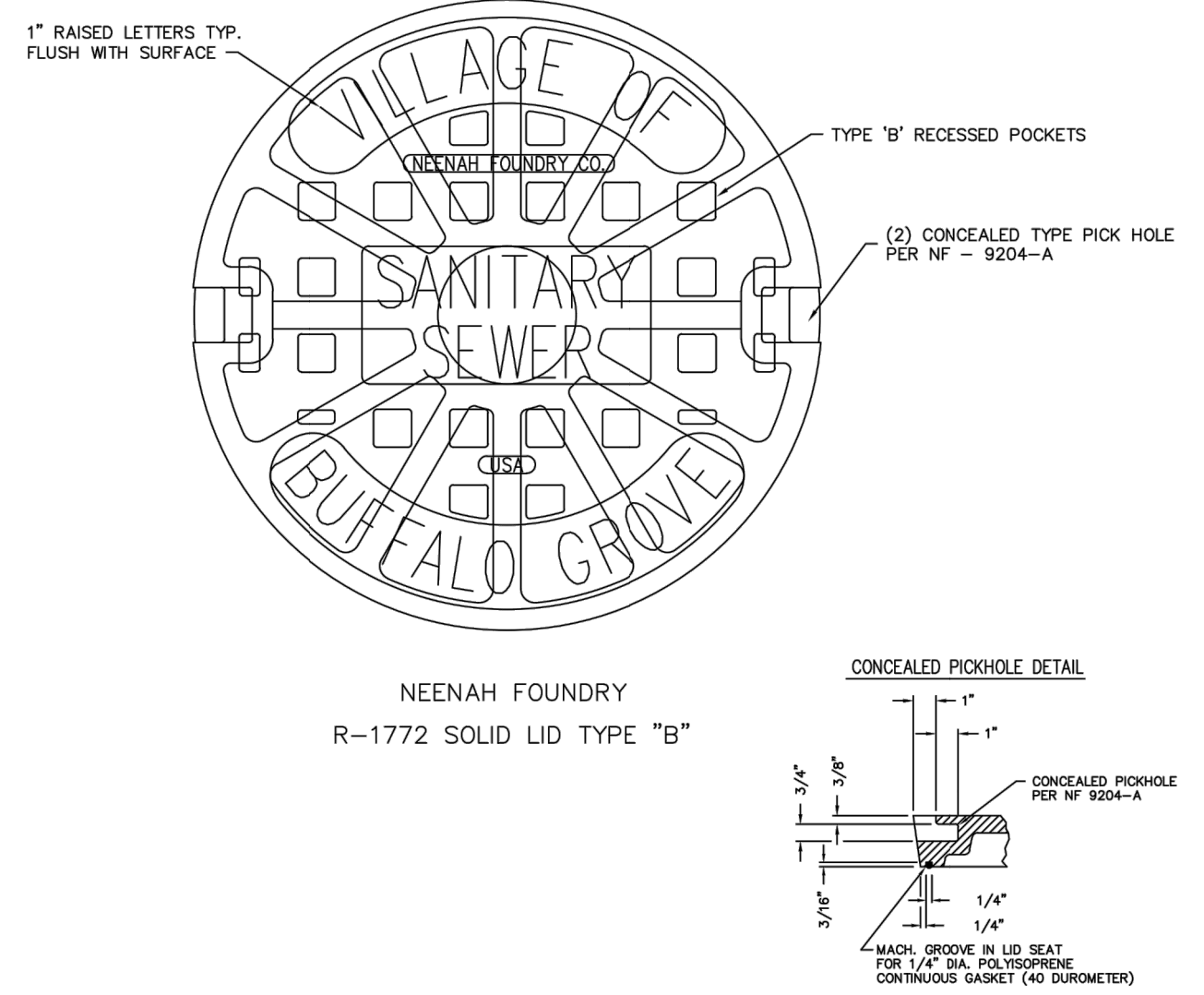
EXHIBIT NO. 201



STORM SEWER MANHOLE LID
DETAIL

Prepared by the Village Engineering Division

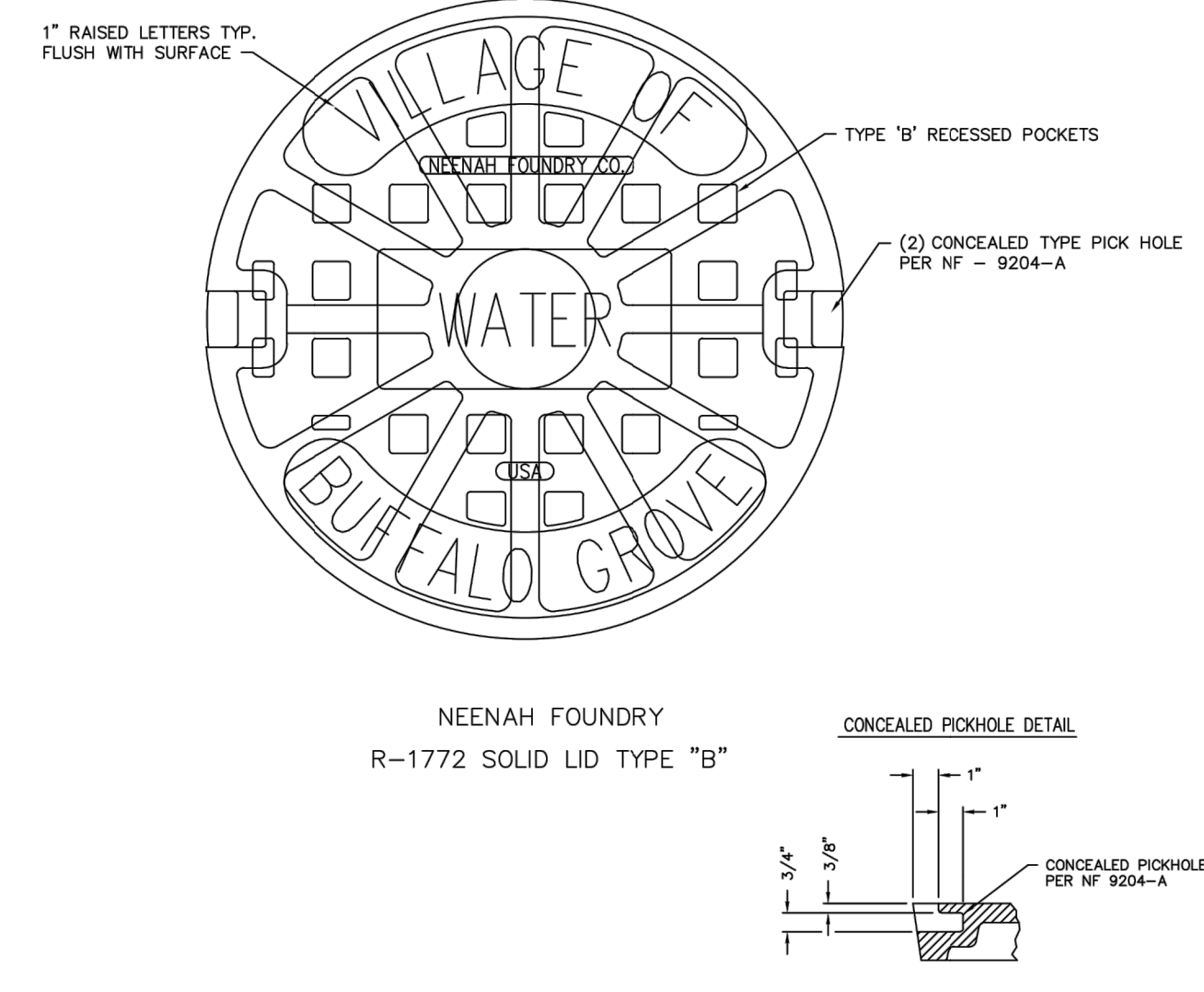
EXHIBIT NO. 301



SANITARY SEWER MANHOLE LID
DETAIL

Prepared by the Village Engineering Division

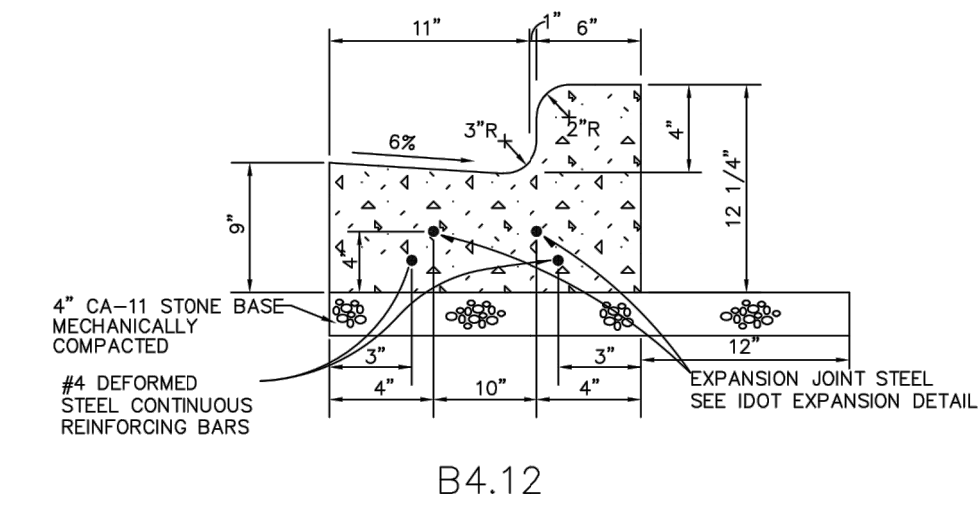
EXHIBIT NO. 401



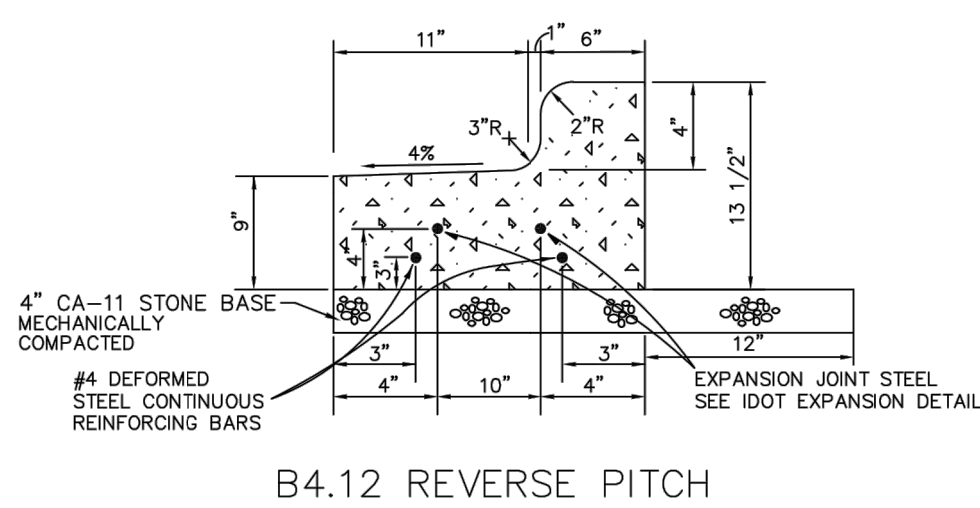
VALVE VAULT LID DETAIL

Prepared by the Village Engineering Division

EXHIBIT NO. 501



B4.12



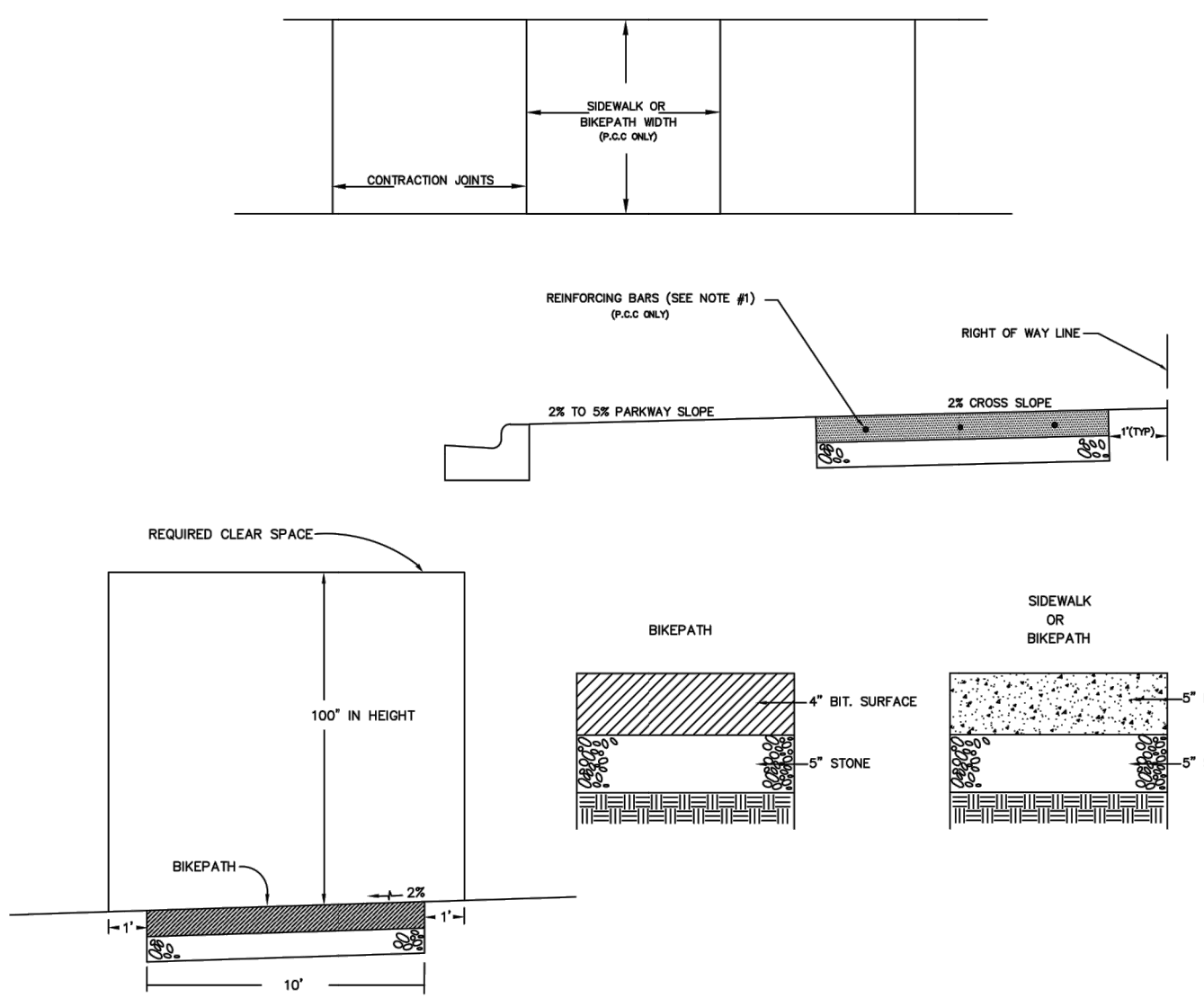
B4.12 REVERSE PITCH

B4.12 CURB AND GUTTER DETAIL

- NOTE:
1. SET EXPANSION JOINTS AT ALL P.C.'S, P.T'S, FIVE FEET ON EITHER SIDE OF ANY FRAMES, AND AT 45' MAX. INTERVALS.
 2. CONTRACTION JOINTS SHALL BE TOoled AT 15' INTERVALS AND SAW CUT WITHIN 24 HOURS.
 3. JOINTS SHALL BE CLEANED AND SEALED ACCORDING TO ARTICLE 420.12.
 4. CURING COMPOUND REQUIRED.
 5. IDOT APPROVED CURBS ALSO PERMITTED.

Prepared by the Village Engineering Division

EXHIBIT NO. 502

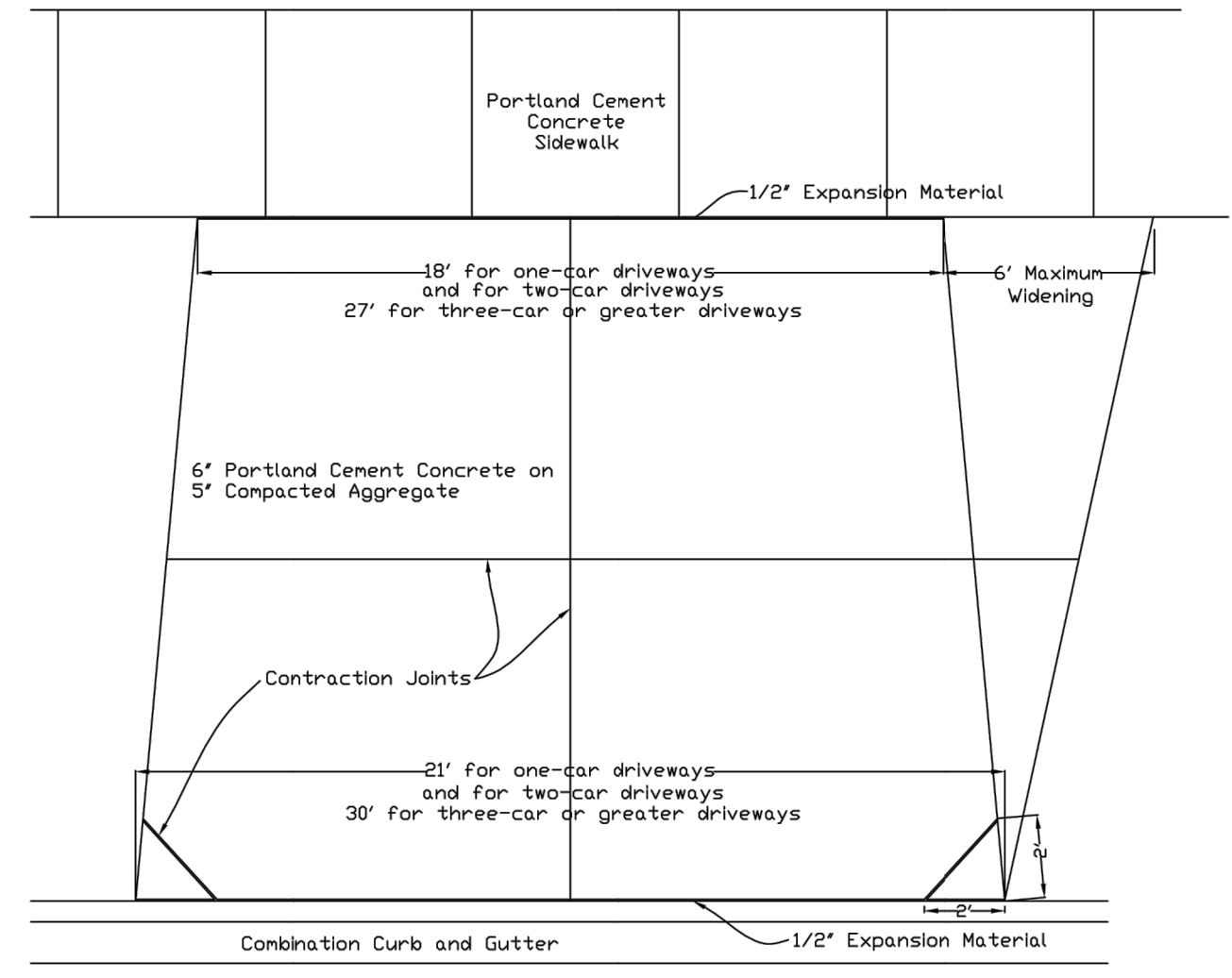


BIKEPATH & SIDEWALK DETAIL

- NOTE:
1. AT ALL TRENCH CROSSINGS, 3 - 10' X 3/4\"/>

Prepared by the Village Engineering Division

EXHIBIT NO. 503



DRIVEWAY APRON DETAIL

- NOTE:
1. Contraction joint depth shall be 1-1/4\"/>

Prepared by the Village Engineering Division

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