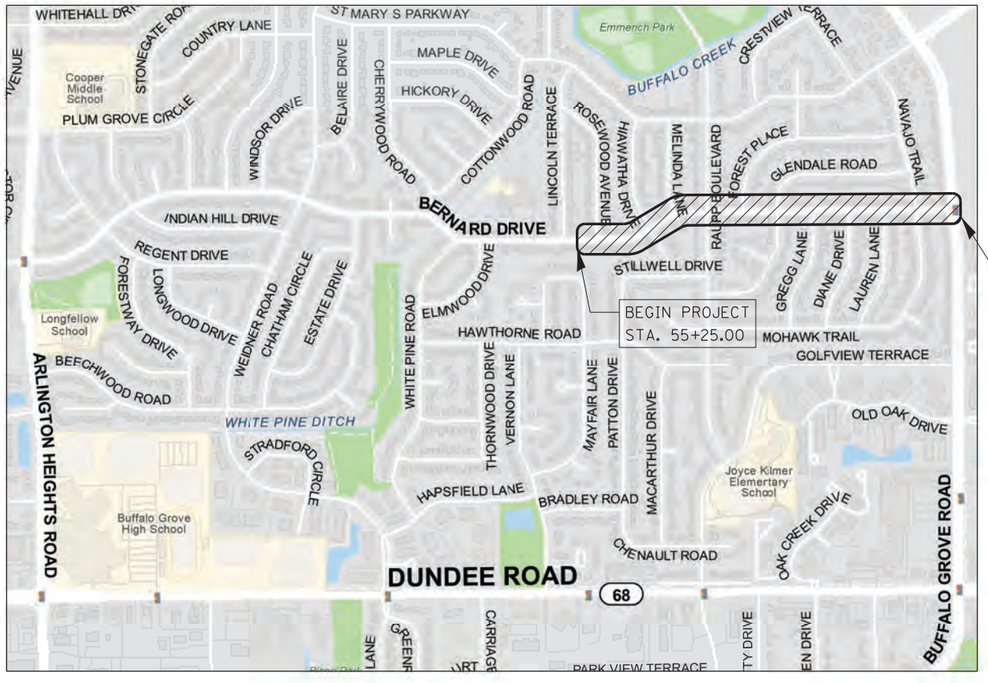
BERNARD DRIVE
RECONSTRUCTION
LINCOLN TERRACE TO BUFFALO GROVE ROAD
VILLAGE OF BUFFALO GROVE
BUFFALO GROVE, ILLINOIS

LIST OF DRAWINGS



MUNICIPAL OFFICIALS

ERIC SMITH	VILLAGE PRESIDENT
JANET SIRABIAN	VILLAGE CLERK
LESTER A. OTTENHEIMER	TRUSTEE
ANDREW STEIN	TRUSTEE
DAVID WEIDENFELD	TRUSTEE
JOANNE JOHNSON	TRUSTEE
DENICE BOCEK	TRUSTEE
FRANK CESARIO	TRUSTEE

PROJECT LOCATION:
BERNARD DRIVE FROM:
EAST OF LINCOLN TERRACE
TO:
BUFFALO GROVE ROAD
(SIGNALIZED INTERSECTION)

LEGAL DESCRIPTION:
SECTIONS 4 AND 5, TOWNSHIP 42 NORTH, RANGE 11 EAST

CALL JULIE 811
WITH THE FOLLOWING:
COUNTY COOK
CITY-TOWNSHIP BUFFALO GROVE
WHEELING TWP.
48 HOURS BEFORE YOU DIG.
EXCLUDING SAT., SUN., & HOLIDAYS

811 Know what's below. Call before you dig.

BENCHMARK

ALIGNMENT, TIES AND BENCHMARKS
SHEETS ON PAGE 7-8

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AS WELL AS SUPERVISION/DIRECTION AND MEANS/METHODS OF CONSTRUCTION

LEE M. FELL
062-053708
REGISTERED PROFESSIONAL ENGINEER
OF
ILLINOIS

LEE M. FELL ENGINEER 10/25/2023 DATE

ILLINOIS REGISTRATION No. 062-053708
EXPIRATION DATE: 11/30/2025

CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

PROFESSIONAL DESIGN FIRM NO. 184-001175
EXPIRATION DATE: 04/30/25

jatdck
11/1/2023

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CI_Cvr.dgn

GENERAL NOTES

1. 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.

2. 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.

3. 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.

4. 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.

5. ALL PAVEMENT DIMENSIONS ARE SHOWN TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

6. 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.

7. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 72 HOURS PRIOR TO BEGINNING WORK.

8. 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.

9. 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.

10. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE NPDES PERMIT AND SWPPP MANUAL.

UTILITY NOTES

1. 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.

2. MACHINE CORE ALL CONNECTIONS TO EXISTING STRUCTURES USING A CORE DRILL. HAMMERING OR SAWING OF STRUCTURES WILL NOT BE ALLOWED.

3. 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.

4. 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.

5. ALL CONNECTIONS TO EXISTING OR DISSIMILAR STORM/SANITARY LINES SHALL BE DONE WITH STAINLESS STEEL NON-SHEAR COUPLINGS.

6. ALL WATER MAIN SHALL HAVE MECHANICAL RESTRAINED TYPE JOINTS AT ALL CONNECTIONS AND FITTINGS. IN ADDITION, ALL HARDWARE SHALL BE STAINLESS STEEL.

7. 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.

8. 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.

9. 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

1. 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.

2. 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.

3. 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.

4. ALL ELEVATIONS ARE ON NAVD 88 VERTICAL DATUM.

5. 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.

6. 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.

7. ALL STONE USED ON THE PROJECT SHALL BE CRUSHED UNLESS SPECIFICALLY NOTED OTHERWISE.

8. ALL CONCRETE SHALL HAVE A LIGHT BROOM FINISH APPLIED WITHIN 1 HOUR OF FINAL STRIKING.

9. 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.

10. 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.

11. 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.

12. ALL DOWEL BARS AND TIE BARS SHALL BE EPOXY COATED UNLESS NOTED OTHERWISE.

13. 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).

14. SPREAD SCREENED TOPSOIL ON ALL DISTURBED AREAS AND PROPOSED GREEN AREAS. TOPSOIL SHALL COMPLY WITH REQUIREMENTS OF ARTICLE 1081.05.

15. ALL REFERENCES TO "ENGINEER" SHALL BE INTERPRETED TO MEAN THE VILLAGE ENGINEER OR AUTHORIZED VILLAGE REPRESENTATIVE.

VILLAGE OF BUFFALO GROVE NOTES

1. 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.

2. 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.

3. ANY EARTH EXCAVATION DONE WITH REMOVAL OR FRAMING OF DRIVEWAY OR SIDEWALK IS INCIDENTAL TO THAT ITEM.

4. ANY STREET LIGHT POLE BRACING REQUIRED SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.

5. 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.

6. 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

1. 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.

2. 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.

3. 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.

4. 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.

5. AFTER ACHIEVING PERMANENT VEGETATION, ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE REMOVED, AND THE DRAINAGE STRUCTURES SHALL BE CLEANED.

6. 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.

7. THE CONTRACTOR SHALL STABILIZE ALL IDLE, DISTURBED AREAS WITHIN SEVEN DAYS OF CESSATION OF THE CONSTRUCTION ACTIVITIES IN THAT AREA.

8. THE CONTRACTOR IS EXPRESSLY ADVISED NOT TO DISTURB AREAS WHICH ARE OUTSIDE THOSE NECESSARY TO PROVIDE THE IMPROVEMENTS AS CALLED FOR IN THE PLANS.

9. ALL EROSION CONTROL MEASURES SHALL BE REPLACED IF DAMAGED OR MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.

10. 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.

11. 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.

12. 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.

13. WASTE, CONSTRUCTION DEBRIS, AND BUILDING MATERIALS SHALL BE COLLECTED AND PLACED IN APPROVED RECEPTACLES.

DEMOLITION NOTES

1. RESIDENT ACCESS MUST BE MAINTAINED THROUGHOUT THE PROJECT. THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR MORE DETAILED REQUIREMENTS FOR RESIDENT ACCESS AND STAGING.

2. 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.

3. 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.

4. 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.

5. 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

1. ANY SIDEWALKS, CURB RAMPS, DEPRESSED CURBS, DETECTABLE WARNINGS, CROSSWALKS OR OTHER ACCESSIBLE ROUTES INSTALLED THAT DO 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.

2. ALL RESIDENTIAL DRIVEWAYS SHALL BE POURED NO LATER THAN THE DAY AFTER THE CURB IS INSTALLED. REFER TO THE SPECIAL PROVISIONS FOR FURTHER REQUIREMENTS.

3. 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 EROSION CONTROL BLANKET. AREAS DISTURBED BY THE CONTRACTORS NEGLIGENCE SHALL BE RESTORED TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE VILLAGE.

4. AT THE DIRECTION OF THE ENGINEER AND AS MARKED IN THE FIELD, ADDITIONAL PARKWAY GRADING MAY BE REQUIRED TO RE-ESTABLISH POSITIVE SITE DRAINAGE.

5. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING LOCKING GASKETS FOR ALL JOINTS WITHIN THE BELOW TABLE FROM ALL BENDS. THE COST OF THE LOCKING GASKETS AND THRUST BLOCKS 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

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

MAINTENANCE OF TRAFFIC

1. ONE-WAY EASTBOUND TRAFFIC SHALL BE MAINTAINED ON BERNARD DRIVE DURING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. A DETOUR FOR WESTBOUND BERNARD DRIVE TRAFFIC IS PROVIDED IN THE PLANS.

2. ONE LANE OF TRAFFIC SHALL BE MAINTAINED ON BERNARD DRIVE FOR EMERGENCY VEHICLES AT ALL TIMES.

3. THE CONTRACTOR SHALL PROVIDE ACCESS TO ABUTTING PROPERTIES AND ALL SIDE STREETS AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT. QUANTITIES FOR "TEMPORARY ACCESS (PRIVATE ENTRANCE)" AND TEMPORARY ACCESS (ROAD) ARE INCLUDED IN THE CONTRACT FOR THIS PURPOSE.

4. ALL SIGNAGE SHALL BE IN ACCORDANCE WITH MUTCD.

5. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION STAGING SEQUENCE PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO MOBILIZATION. THE STAGING SEQUENCE PLAN SHALL BE COMPLETED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

6. WHEN PAVING, ALL LONGITUDINAL JOINTS SHALL BE COMPLETED WITHIN ONE WORKING DAY. NO SINGLE LANES SHALL BE LEFT OVERNIGHT.

7. THE NORTHBOUND LEFT TURN LANE ON BUFFALO GROVE ROAD SHALL BE CLOSED IN ACCORDANCE WITH IDOT HIGHWAY STANDARD 701701 DURING THE DURATION OF THE BERNARD DRIVE DETOUR. THIS WORK SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL).

8. SEE SPECIAL PROVISIONS FOR ADDITIONAL NOTES.

CLEAN CONSTRUCTION OR DEMOLITION DEBRIS (CCDD)

1. AN LPC-663 HAS BEEN PROVIDED IN THE SPECIAL PROVISIONS. NON-SPECIAL WASTE IS NOT ANTICIPATED TO BE ENCOUNTERED DURING CONSTRUCTION. IF NON-SPECIAL WASTE IS ENCOUNTERED, IT SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH SECTION 669 OF THE STANDARD SPECIFICATIONS.

FILE NAME = N:\BuffaloGrove\200385\Civil\VBG-sht-CLGEN_01.dgn

CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

CLIENT: Village of Buffalo Grove
51 RAUPP BOULEVARD
BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

NO.	DATE	NATURE OF REVISION	CHKD.

DSGN. VMR
DWN. MAK
CHKD. LMF
USER NAME = jstrick
PLOT DATE = 11/1/2023

TITLE: GENERAL NOTES
BERNARD DRIVE

SCALE: 1:5 | SHEET 1 OF 1 SHEETS | STA. TO STA.

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 2 OF 97

BASE BID			
ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
1	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	86
2	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	810
3	TREE ROOT PRUNING	EACH	5
4	EARTH EXCAVATION	CU YD	2325
5	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	705
6	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	13300
7	INLET FILTERS	EACH	43
* 8	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	200
9	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	6310
10	AGGREGATE BASE COURSE, TYPE B 9"	SQ YD	12000
11	BITUMINOUS MATERIALS (PRIME COAT)	POUND	27000
12	BITUMINOUS MATERIALS (TACK COAT)	POUND	2594
13	LONGITUDINAL JOINT SEALANT	FOOT	3015
14	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	615
15	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	35540
16	PAVEMENT REMOVAL	SQ YD	12787
17	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	158
18	DRIVEWAY PAVEMENT REMOVAL	SQ YD	659
19	COMBINATION CURB AND GUTTER REMOVAL	FOOT	6230
20	SIDEWALK REMOVAL	SQ FT	23470
21	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	551
22	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	154
23	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	240
24	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	788
25	STORM SEWERS, CLASS A, TYPE 2 30"	FOOT	127
26	STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	929
27	STORM SEWERS, CLASS A, TYPE 2 48"	FOOT	212

BASE BID			
ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
28	ADJUSTING WATER SERVICE LINES	FOOT	750
* 29	DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED	EACH	61
30	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	1100
31	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	2
32	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	39
33	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	7
34	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	12
35	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	8
36	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1
37	MANHOLES, TYPE A, 8'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1
38	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	1
39	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	EACH	3
40	CATCH BASINS TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1
41	MANHOLES TO BE ADJUSTED	EACH	2
42	INLETS TO BE ADJUSTED	EACH	1
43	REMOVING MANHOLES	EACH	2
44	REMOVING CATCH BASINS	EACH	3
45	REMOVING INLETS	EACH	1
46	CONCRETE CURB, TYPE B	FOOT	200
47	MOBILIZATION	L SUM	1
48	CHANGEABLE MESSAGE SIGN	CAL DA	70
49	SIGN PANEL - TYPE 1	SQ FT	131
50	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	3
51	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	3
52	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	25
53	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	900
54	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1100

* INDICATES SPECIAL PROVISION

FILE NAME = N:\Buffalo Grove\200385\Civil\VBG-sht-C1.S00.01.dgn

CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

CLIENT: Village of Buffalo Grove
51 RAUPP BOULEVARD
BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

NO.	DATE	NATURE OF REVISION	CHKD.

DSGN. VMR
DWN. MAK
CHKD. LMF
USER NAME = jsirick
PLOT DATE = 11/1/2023

TITLE: BERNARD DRIVE
SUMMARY OF QUANTITIES

SCALE: 1:20 | SHEET 1 OF 2 SHEETS | STA. TO STA.

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 3 OF 97

	BASE BID			
	ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
	55	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	110
	56	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	25
	57	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	900
	58	GROOVING FOR RECESSED PAVEMENT MARKING 13"	FOOT	1100
	59	GROOVING FOR RECESSED PAVEMENT MARKING 25"	FOOT	110
*	60	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
	61	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	346
	62	DETECTOR LOOP, TYPE I	FOOT	78
	63	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	346
*	64	PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE	EACH	1
*	65	STORM SEWER TO BE FILLED	CU YD	9
*	66	WATER MAIN SUPPORT	EACH	4
*	67	TRENCH BACKFILL (SPECIAL)	CU YD	4638
*	68	EXPLORATION TRENCH (SPECIAL)	FOOT	150
*	69	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	51
*	70	TEMPORARY ACCESS (ROAD)	EACH	14
*	71	TEMPORARY RAMP (SPECIAL)	SQ YD	375
*	72	DETECTABLE WARNINGS (SPECIAL)	SQ FT	500
*	73	CLASS D PATCHES, TYPE IV, 5 INCH (SPECIAL)	SQ YD	419
*	74	MANHOLES, SANITARY, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2
*	75	SANITARY MANHOLES TO BE ADJUSTED	EACH	15
*	76	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	22
*	77	COMBINATION CONCRETE CURB AND GUTTER, TYPE B (SPECIAL)	FOOT	6098
*	78	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
*	79	SUMP PUMP LINE CONNECTION	EACH	4
*	80	TRAFFIC CONTROL AND PROTECTION (DETOUR)	L SUM	1
*	81	CONCRETE TRUCK WASHOUT	L SUM	1

	BASE BID			
	ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
*	82	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 3"	SQ YD	51
*	83	CONSTRUCTION LAYOUT	L SUM	1
*	84	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	522
*	85	STORM SEWER (WATER MAIN REQUIREMENTS) 15 INCH	FOOT	38
*	86	STORM SEWER (WATER MAIN REQUIREMENTS) 24 INCH	FOOT	237
*	87	STORM SEWER (WATER MAIN REQUIREMENTS) 36 INCH	FOOT	135
*	88	SANITARY SEWER 12"	FOOT	211
*	89	CLASS D PATCHES, 4 INCH (SPECIAL)	SQ YD	400
*	90	DETECTABLE WARNINGS (FURNISHED BY OTHERS)	SQ FT	150
*	91	GENERAL LANDSCAPE RESTORATION (SPECIAL)	SQ YD	4300
*	92	HOT-MIX ASPHALT BINDER COURSE, (SPECIAL)	TON	1612
*	93	HOT-MIX ASPHALT SURFACE COURSE, (SPECIAL)	TON	1290
*	94	MOWING	EACH	5
*	95	TEMPORARY EROSION CONTROL SEEDING (SPECIAL)	SQ YD	4300
*	96	TEMPORARY MULCH CONTROL 3A (SPECIAL)	SQ YD	4300

ALTERNATE BID 1			
ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
1	TREE, CELTIS OCCIDENTALIS CHICAGOLAND, (CHICAGOLAND COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED	EACH	3
2	TREE, GINKGO BILOBA AUTUMN GOLD (AUTUMN GOLD GINKGO), 2" CALIPER, BALLED AND BURLAPPED	EACH	6
3	TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 2" CALIPER, BALLED AND BURLAPPED	EACH	2
4	TREE, LIQUIDAMBAR STYRACIFLUA MORAINE (MORAINE SWEETGUM), 2" CALIPER, BALLED AND BURLAPPED	EACH	7
5	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	1
6	TREE, TAXODIUM DISTICHUM (COMMON BALD CYPRESS), 2" CALIPER, BALLED AND BURLAPPED	EACH	1
7	TREE, TILIA AMERICANA REDMOND (REDMOND AMERICAN LINDEN), 2" CALIPER, BALLED AND BURLAPPED	EACH	2
8	TREE, CLADRASTIS KENTUCKEA (AMERICAN YELLOWWOOD), 2" CALIPER, BALLED AND BURLAPPED	EACH	4

* INDICATES SPECIAL PROVISION

FILE NAME = N:\Buffalo Grove\200385\Civil\VBG-sht-CI_SQQ_01.dgn

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(847) 823-0500

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BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

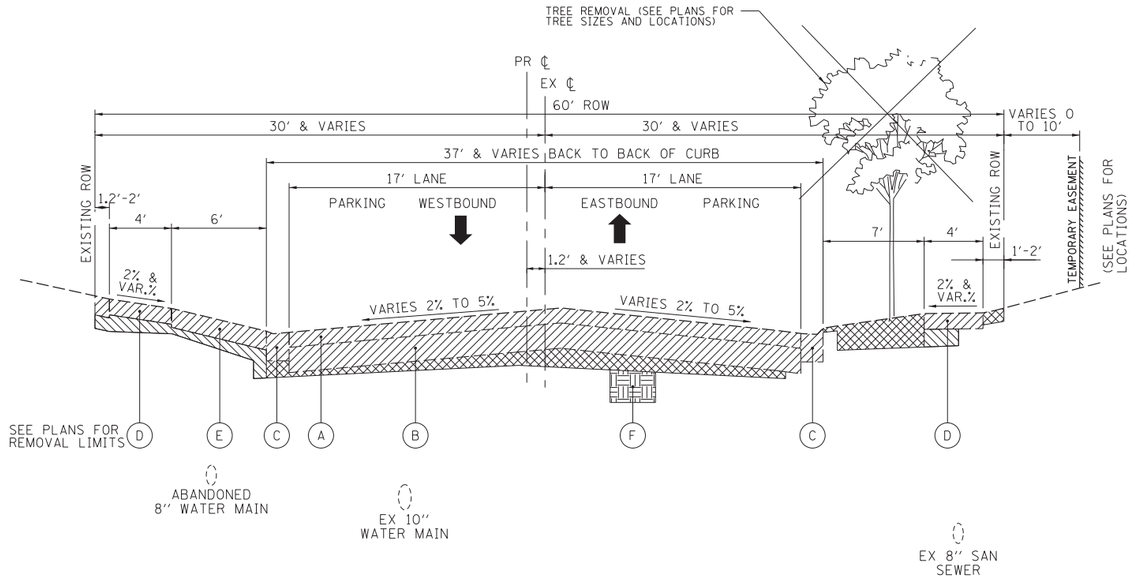
NO.	DATE	NATURE OF REVISION	CHKD.

DSGN. VMR
DWN. MAK
CHKD. LMF
USER NAME = jsirick
PLOT DATE = 11/1/2023

TITLE: BERNARD DRIVE
SUMMARY OF QUANTITIES

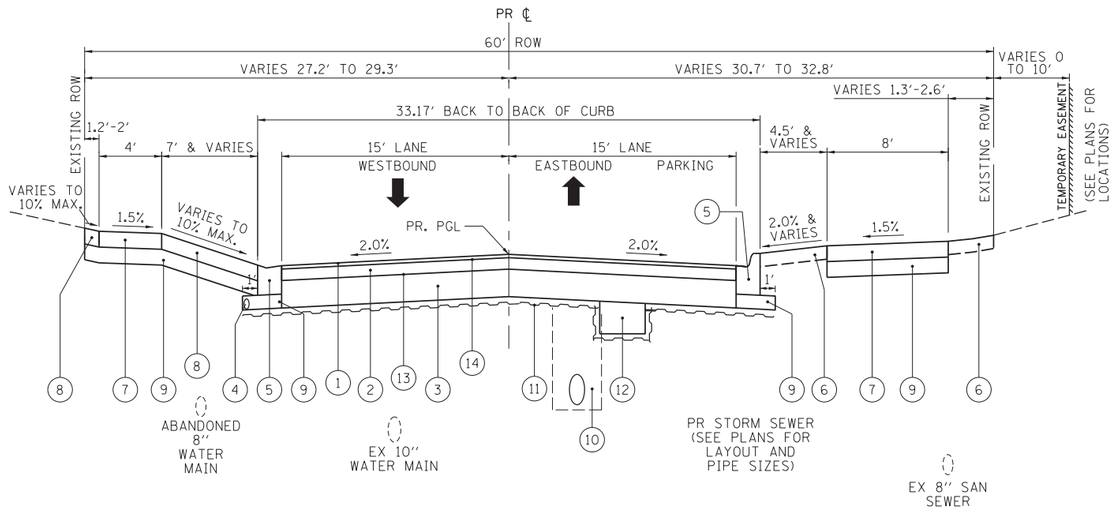
SCALE: 1:20 | SHEET 2 OF 2 SHEETS | STA. TO STA.

SECTION: 20-00108-01-RS
DATE: 11/1/2023



EXISTING BERNARD DRIVE TYPICAL SECTION

STA. 55+25.00 TO STA. 85+39.62
LOOKING EAST (UPSTATION)



PROPOSED BERNARD DRIVE TYPICAL SECTION

STA. 55+25.00 TO STA. 85+39.62
LOOKING EAST (UPSTATION)

EXISTING LEGEND

- (A) BITUMINOUS PAVEMENT (THICKNESS VARIES FROM 5" TO 11.75" - SEE PAVEMENT CORES) REMOVED AS PAVEMENT REMOVAL (44000100)
- (B) GRANULAR SUBGRADE (THICKNESS VARIES FROM 3" TO 10" - SEE PAVEMENT CORES) REMOVED AS EARTH EXCAVATION (20200100)
- (C) COMBINATION CURB AND GUTTER TYPE M-3.12 REMOVED AS COMBINATION CURB AND GUTTER REMOVAL (44000500)
- (D) P.C.C. SIDEWALK, 5" & VARIES REMOVED AS SIDEWALK REMOVAL (44000600)
- (E) P.C.C. DRIVEWAY - REMOVED AS DRIVEWAY REMOVAL (44000200)
- (F) REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (20201200) (AS DIRECTED BY THE ENGINEER)
- REMOVAL ITEMS
- APPROX. LIMITS OF TOPSOIL STRIPPING / EARTH EXCAVATION
- ANY ADDITIONAL EXCAVATION NEEDED TO INSTALL SIDEWALK OR DRIVEWAY SHALL BE INCLUDED IN THE COST OF P.C.C. DRIVEWAY PAVEMENT, 6 INCH OR P.C.C. SIDEWALK 5 INCH
- UNDERCUT (REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL) AND REPLACEMENT WITH AGGREGATE SUBGRADE IMPROVEMENT

PROPOSED LEGEND

- (1) HOT-MIX ASPHALT SURFACE COURSE, (SPECIAL); 2"
- (2) HOT-MIX ASPHALT BINDER COURSE, (SPECIAL); 2½"
- (3) AGGREGATE BASE COURSE, TYPE B 9"
- (4) PIPE UNDERDRAINS, 4" (MODIFIED) - SEE NOTE 1
- (5) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-4.12 - (PAID FOR AS COMBINATION CONCRETE CURB AND GUTTER, TYPE B (SPECIAL) (MINIMUM GUTTER THICKNESS SHALL BE 9½")
- (6) GENERAL LANDSCAPE RESTORATION (SPECIAL)
- (7) PORTLAND CEMENT CONCRETE SIDEWALK 5" (SIDEWALK TO BE THICKENED TO 6" AT DRIVEWAYS)
- (8) PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6"
- *(9) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (10) TRENCH BACKFILL, SPECIAL
- (11) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- (12) AGGREGATE SUBGRADE IMPROVEMENT (AS DIRECTED BY THE ENGINEER)
- (13) BITUMINOUS MATERIALS (PRIME COAT)
- (14) BITUMINOUS MATERIALS (TACK COAT)

NOTE:

1. UNDERDRAINS AT THE OUTSIDE EDGE OF PAVEMENT SHALL BE INSTALLED FOR 50 FT. ON EACH SIDE OF CURB-LINE DRAINAGE INLETS. TRANSVERSE UNDERDRAINS SHALL BE INSTALLED AT ALL PROFILE SAGS AND AT ANY UNDERCUTS DETERMINED IN THE FIELD.
2. GEOTECHNICAL FABRIC IS TO OVERLAP AT CENTERLINE IN ACCORDANCE WITH ARTICLE 210.03 OF THE STANDARD SPECIFICATIONS

*CA-6 (UNDER SIDEWALKS AND DRIVEWAYS)

*CA-11 (UNDER CURB AND GUTTER)

FILE NAME = N:\BuffaloGrove\200385\Civil\VBG-ant-Cl.1.tpXS.01.dgn

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(847) 459-2500

NO.	DATE	NATURE OF REVISION	CHKD.

DSGN. VMR
DWN. MAK
CHKD. LMF
USER NAME = jsitrick
PLOT DATE = 11/1/2023

TITLE: EXISTING AND PROPOSED TYPICAL SECTIONS BERNARD DRIVE

SCALE: 1:5 | SHEET 1 OF 1 SHEETS | STA. 55+25.00 TO STA. 85+39.62

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 5 OF 97

	CUT (EXCLUSIVE OF T/S STRIPPING, PAV'T REMOVAL, C&G REMOVAL, DRIVEWAY REMOVAL) (SQ FT)	FILL (SQ FT)	CUT VOLUME (CU YD)	EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE (15% SHRINKAGE FACTOR) (CU YD)	FILL (CU YD)	EARTHWORK BALANCE ("+" = WASTE, "-" = SHORTAGE) (CU YD)
SUBTOTALS - BERNARD DRIVE			**2,248**	**1,911**	**182**	**1,729**
55+25.00	20.5	0.0				
55+50.00	19.2	5.0	18.4	15.6	2.3	13.3
55+93.32	30.1	2.0	39.5	33.6	5.6	28.0
56+08.83	30.0	1.0	17.3	14.7	0.9	13.8
56+28.98	32.7	0.3	23.4	19.9	0.5	19.4
56+50.00	34.4	0.8	26.1	22.2	0.4	21.8
56+87.27	36.0	0.3	48.6	41.3	0.8	40.5
57+00.00	33.3	1.9	16.3	13.9	0.5	13.4
57+54.24	27.3	2.1	60.9	51.7	4.0	47.7
57+88.26	34.5	0.4	38.9	33.1	1.6	31.5
58+07.12	33.7	0.7	23.8	20.2	0.4	19.9
58+50.00	30.3	2.8	50.8	43.2	2.8	40.4
58+69.51	30.6	1.0	22.0	18.7	1.4	17.3
59+00.00	29.1	3.5	33.7	28.7	2.5	26.1
59+22.64	27.8	2.4	23.9	20.3	2.5	17.8
59+64.48	30.3	1.0	45.0	38.3	2.6	35.6
60+00.00	24.1	4.8	35.8	30.4	3.8	26.6
60+16.00	29.0	0.3	15.7	13.4	1.5	11.9
60+31.02	28.6	1.3	16.0	13.6	0.4	13.2
60+50.00	28.8	2.5	20.2	17.1	1.3	15.8
60+74.00	34.1	2.1	28.0	23.8	2.0	21.7
61+00.00	36.0	1.4	33.8	28.7	1.7	27.0
61+50.00	32.6	1.8	63.5	54.0	3.0	51.0
61+83.78	48.5	0.0	50.7	43.1	1.1	42.0
62+50.00	19.4	6.0	83.3	70.8	7.4	63.4
62+84.51	24.9	0.6	28.3	24.1	4.2	19.8
63+00.00	19.4	5.4	12.7	10.8	1.7	9.1
63+50.00	25.5	4.7	41.6	35.3	9.4	26.0
63+86.35	22.9	1.1	32.6	27.7	3.9	23.8
64+08.14	14.5	6.9	15.1	12.8	3.2	9.6
64+36.71	18.4	1.3	17.4	14.8	4.3	10.5
64+50.00	19.1	5.1	9.2	7.8	1.6	6.3
65+00.00	17.7	5.6	34.1	29.0	9.9	19.1
65+44.98	24.6	0.8	35.2	29.9	5.3	24.6
66+00.00	22.6	4.8	48.1	40.9	5.7	35.2
66+64.62	70.9	0.0	111.9	95.1	5.7	89.4
67+00.00	15.4	4.2	56.5	48.1	2.8	45.3
67+50.00	19.9	4.2	32.7	27.8	7.8	20.0
68+00.00	20.8	3.5	37.7	32.0	7.1	24.9
68+09.62	20.9	2.2	7.4	6.3	1.0	5.3
68+36.84	20.8	2.8	21.0	17.9	2.5	15.3
68+73.29	20.1	1.6	27.6	23.5	3.0	20.5
69+00.00	19.6	3.3	19.6	16.7	2.4	14.3
69+32.72	28.9	0.8	29.4	25.0	2.5	22.5

	CUT (EXCLUSIVE OF T/S STRIPPING, PAV'T REMOVAL, C&G REMOVAL, DRIVEWAY REMOVAL) (SQ FT)	FILL (SQ FT)	CUT VOLUME (CU YD)	EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE (15% SHRINKAGE FACTOR) (CU YD)	FILL (CU YD)	EARTHWORK BALANCE ("+" = WASTE, "-" = SHORTAGE) (CU YD)
SUBTOTALS - BERNARD DRIVE			**2,248**	**1,911**	**182**	**1,729**
69+44.76	25.4	2.5	12.1	10.3	0.7	9.6
70+00.00	16.8	3.1	43.2	36.7	5.7	31.0
70+49.68	19.2	2.9	33.1	28.2	5.5	22.6
71+05.08	26.2	1.5	46.6	39.6	4.5	35.1
71+50.00	26.0	3.8	43.4	36.9	4.4	32.5
72+00.00	28.6	0.8	50.6	43.0	4.3	38.7
72+24.05	44.3	0.0	32.5	27.6	0.4	27.2
72+50.00	29.7	0.0	35.6	30.2	0.0	30.2
73+00.00	25.2	2.2	50.8	43.2	2.0	41.2
73+44.44	27.5	0.2	43.4	36.9	2.0	34.9
74+00.00	25.8	2.5	54.8	46.6	2.8	43.8
74+16.80	27.2	1.6	16.5	14.0	1.3	12.7
74+50.00	26.2	2.1	32.8	27.9	2.3	25.6
74+83.67	26.3	3.0	32.7	27.8	3.2	24.6
75+04.30	38.2	0.3	24.6	20.9	1.3	19.7
75+43.08	32.7	1.3	50.9	43.3	1.1	42.1
76+04.02	35.4	1.0	76.9	65.3	2.6	62.7
76+63.35	30.8	0.0	72.7	61.8	1.1	60.7
77+00.00	29.6	1.2	41.0	34.8	0.8	34.0
77+23.75	29.3	1.1	25.9	22.0	1.0	21.0
77+50.00	25.6	2.5	26.7	22.7	1.8	20.9
77+83.90	36.0	0.0	38.7	32.9	1.6	31.3
78+00.00	23.5	2.6	17.7	15.1	0.8	14.3
78+45.48	25.0	1.5	40.8	34.7	3.5	31.3
79+03.61	26.1	1.5	55.0	46.8	3.2	43.5
79+45.00	24.3	1.9	38.6	32.8	2.6	30.2
79+65.86	29.7	0.0	20.9	17.7	0.7	17.0
79+81.01	26.9	2.6	15.9	13.5	0.7	12.8
80+00.00	28.8	2.4	19.6	16.6	1.8	14.9
80+64.18	36.4	0.3	77.5	65.9	3.2	62.7
80+83.78	31.8	0.1	24.8	21.0	0.1	20.9
81+00.00	28.9	1.1	18.2	15.5	0.4	15.1
81+43.93	29.4	0.9	47.4	40.3	1.6	38.7
81+78.35	31.5	0.0	38.8	33.0	0.6	32.4
82+05.06	34.9	0.2	32.8	27.9	0.1	27.8
82+50.00	41.6	0.6	63.7	54.1	0.7	53.4
83+05.28	86.9	0.0	131.5	111.8	0.6	111.2
83+50.00	33.4	3.8	99.6	84.7	3.1	81.5
84+03.78	32.7	1.5	65.8	56.0	5.3	50.7
84+50.00	31.3	2.6	54.8	46.6	3.5	43.1
84+64.96	32.3	1.0	17.6	15.0	1.0	14.0
84+71.28	32.5	0.5	7.6	6.4	0.2	6.3
85+00.00	27.0	2.4	31.6	26.9	1.5	25.4
85+39.62	22.0	0.4	36.0	30.6	2.1	28.5

EARTHWORK SUMMARY

LOCATION	(1) CUT VOLUME (EARTH EXCAVATION) (CU YD)	(2) EXCAVATION AVAILABLE FOR EMBANKMENTS ADJUSTED BY 15% SHRINKAGE FACTOR (CU YD)	(3) EMBANKMENT (FILL) (CU YD)	(4) EARTHWORK BALANCE ("+" = WASTE, "-" = SHORTAGE) (CU YD)
BERNARD DRIVE	2,248	1,911	182	1,729
PROJECT TOTALS	**2,248**	**1,911**	**182**	**1,729**

FILE NAME = N:\BuffaloGrove\200385\Civil\VBG-ant-C1_EWK_01.dgn

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CLIENT: **Village of Buffalo Grove**
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(847) 459-2500

NO.	DATE	NATURE OF REVISION	CHKD.

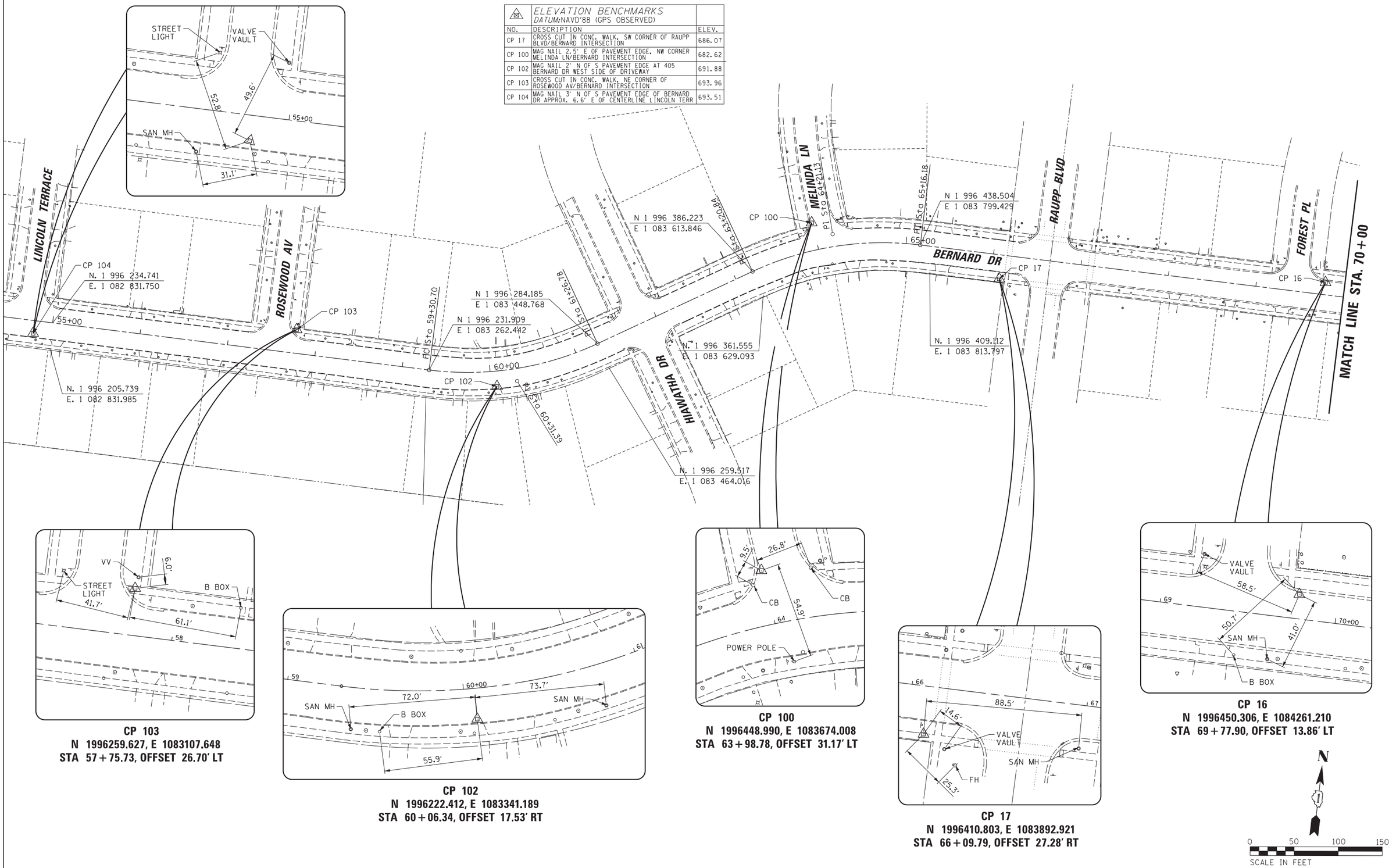
DSGN. VMR
DWN. MAK
CHKD. LMF
USER NAME = jstrick
PLOT DATE = 11/1/2023

TITLE: **BERNARD DRIVE EARTHWORK SCHEDULE**

SCALE: 1:20 | SHEET 1 OF 1 SHEETS | STA. | TO STA.

SECTION: 20-00108-01-RS
DATE: 11/1/2023

ELEVATION BENCHMARKS DATUM: NAVD'88 (GPS OBSERVED)		
NO.	DESCRIPTION	ELEV.
CP 17	CROSS CUT IN CONC. WALK, SW CORNER OF RAUPP BLVD/BERNARD INTERSECTION	686.07
CP 100	MAG NAIL 2.5' E OF PAVEMENT EDGE, NW CORNER MELINDA LN/BERNARD INTERSECTION	682.62
CP 102	MAG NAIL 2' N OF S PAVEMENT EDGE AT 405 BERNARD DR WEST SIDE OF DRIVEWAY	691.88
CP 103	CROSS CUT IN CONC. WALK, NE CORNER OF ROSEWOOD AV/BERNARD INTERSECTION	693.96
CP 104	MAG NAIL 3' N OF S PAVEMENT EDGE OF BERNARD DR APPROX. 6.6' E OF CENTERLINE LINCOLN TERR	693.51



CP 103
N 1996259.627, E 1083107.648
STA 57+75.73, OFFSET 26.70' LT

CP 102
N 1996222.412, E 1083341.189
STA 60+06.34, OFFSET 17.53' RT

CP 100
N 1996448.990, E 1083674.008
STA 63+98.78, OFFSET 31.17' LT

CP 17
N 1996410.803, E 1083892.921
STA 66+09.79, OFFSET 27.28' RT

CP 16
N 1996450.306, E 1084261.210
STA 69+77.90, OFFSET 13.86' LT

FILE NAME = N:\BuffaloGrove\200385\Civil\VBG-ant-CLATB-01.dgn

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(847) 459-2500

NO.	DATE	NATURE OF REVISION	CHKD.

DSGN. VMR
DWN. MAK
CHKD. LMF
USER NAME = jstrick
PLOT DATE = 11/1/2023

TITLE: **BERNARD DRIVE**
ALIGNMENT, TIES AND BENCHMARKS

SCALE: 1:50 | SHEET 1 OF 2 SHEETS | STA. 55+00 TO STA. 70+00.00

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 7 OF 97

	ELEVATION BENCHMARKS DATUM: NAVD'88 (GPS OBSERVED)	
NO.	DESCRIPTION	ELEV.
CP 11	CROSS CUT IN CONC. WALK, NE CORNER OF NAVAJO LN/BERNARD INTERSECTION	682.31
CP 12	CROSS CUT IN CONC. WALK N SIDE OF BERNARD DR 1.2' W OF CENTERLINE LAUREN LN	684.25
CP 13	CROSS CUT IN CONC. WALK N SIDE OF BERNARD DR 13' W OF CENTERLINE DIANE DR	696.18
CP 14	CROSS CUT IN CONC. WALK N SIDE OF BERNARD DR APPROX. IN LINE WITH BACK OF W WALK GREGG LN	697.60
CP 15	CROSS CUT IN CONC. WALK S SIDE OF BERNARD DR 8.3' W OF BACK OF W WALK GLENDALE RD	688.47

MATCH LINE STA. 70+00

MATCH LINE STA. 84+00

BERNARD DR

GLENDALE RD

GREGG LN

DIANE DR

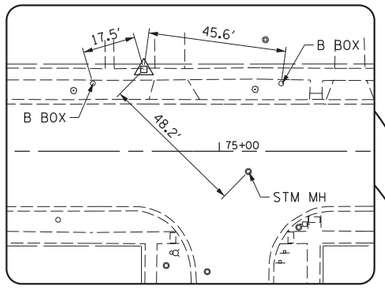
LAUREN LN

NAVAJO TRAIL

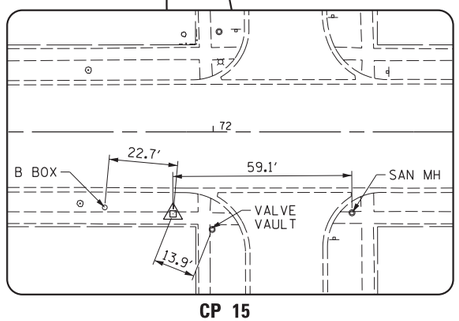
BUFFALO GROVE RD

70+00 75+00 80+00

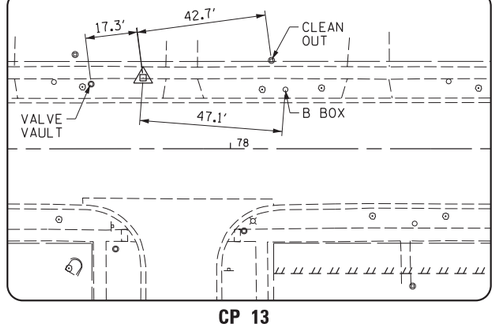
CP 15 CP 14 CP 13 CP 12 CP 11



CP 14
N 1996461.239, E 1084758.465
STA 74+74.10, OFFSET 27.01' LT



CP 15
N 1996408.474, E 1084469.894
STA 71+86.77, OFFSET 27.04' RT



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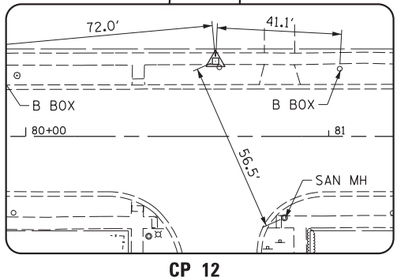
STA 77+71.18, OFFSET 23.45' LT



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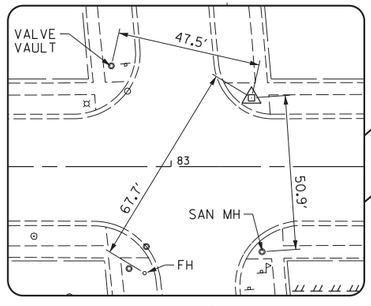
STA 80+62.64, OFFSET 24.83' LT



CP 11
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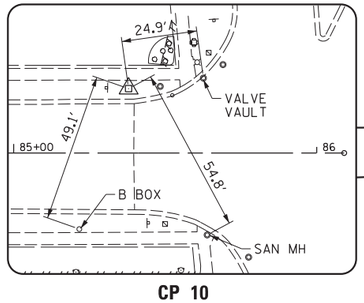
STA 83+26.56, OFFSET 22.70' LT



CP 10
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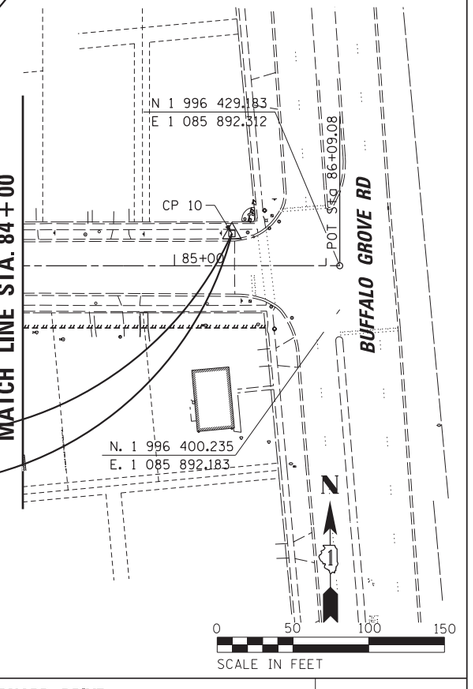
STA 85+37.90, OFFSET 21.23' LT



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CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

CLIENT: **Village of Buffalo Grove**
51 RAUPP BOULEVARD
BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

NO.	DATE	NATURE OF REVISION	CHKD.

DSGN. VMR
DWN. MAK
CHKD. LMF
USER NAME = jstrick
PLOT DATE = 11/1/2023

TITLE: **BERNARD DRIVE**
ALIGNMENT, TIES AND BENCHMARKS

SCALE: 1:50 | SHEET 2 OF 2 SHEETS | STA. 70+00.00 TO STA. 86+09.08

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 8 OF 97

REMOVAL LEGEND

- PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- HMA SURFACE REMOVAL 2''
- COMBINATION CURB AND GUTTER REMOVAL
- TREE REMOVAL
- RETIRED WATER MAIN
- STORM SEWER TO BE FILLED

524 BERNARD
394 LINCOLN
391 LINCOLN
468 BERNARD
394 ROSEWOOD
LINCOLN TERRACE
60' ROW
SAN G21861 RIM=690.69 INV S 8'' VCP=680.19 INV W 8'' VCP=678.69
SIDEWALK RECONSTRUCTION PROJECT LIMITS STA. 55+35
ROADWAY RECONSTRUCTION PROJECT LIMITS STA. 55+25
BIKEPATH RECONSTRUCTION PROJECT LIMITS STA. 55+35
BERNARD DR
29' ROW
31' ROW
28.6' ROW
31.4' ROW
SAN G21534 RIM=692.20 INV E 8'' VCP=685.53
SAN G21491 RIM=692.76 INV E 8'' VCP=684.59 INV W 8'' VCP=684.76
SAN G21476 RIM=693.60 INV N 8'' VCP=683.60 INV E 6'' VCP=685.26 INV W 6'' VCP=683.76
SAN G21196 RIM=694.85 INV E 6'' VCP=686.51 INV W 6'' VCP=686.60
545 BERNARD
535 BERNARD
523 BERNARD
513 BERNARD
495 BERNARD
489 BERNARD
483 BERNARD
471 BERNARD
463 BERNARD
COMBINATION CURB AND GUTTER REMOVAL, 175 LF
PAVEMENT REMOVAL, 696 SY
SIDEWALK REMOVAL, 633 SF
DRIVEWAY PAVEMENT REMOVAL, 11 SY
SIDEWALK REMOVAL, 644 SF
DRIVEWAY PAVEMENT REMOVAL, 13 SY
SANITARY MANHOLES TO BE ADJUSTED
DRIVEWAY PAVEMENT REMOVAL, 11 SY
COMBINATION CURB AND GUTTER REMOVAL, 175 LF
DRIVEWAY PAVEMENT REMOVAL, 11 SY
SANITARY MANHOLES TO BE ADJUSTED
MATCH LINE STA. 57+00
SCALE IN FEET

60' ROW
ROSEWOOD AV
391 ROSEWOOD
422 BERNARD
410 BERNARD
400 BERNARD
374 BERNARD
SIDEWALK REMOVAL, 185 SF
HMA SURFACE REMOVAL 2'', 11 SY
COMBINATION CURB AND GUTTER REMOVAL, 30 LF
FRAMES AND LIDS TO BE ADJ. (SPECIAL)
SIDEWALK REMOVAL, 1585 SF
DRIVEWAY PAVEMENT REMOVAL, 11 SY
COMBINATION CURB AND GUTTER REMOVAL, 368 LF
PAVEMENT REMOVAL, 2622 SY
DRIVEWAY PAVEMENT REMOVAL, 19 SY
DRIVEWAY PAVEMENT REMOVAL, 12 SY
HMA SURFACE REMOVAL 2'', 11 SY
DRIVEWAY PAVEMENT REMOVAL, 16 SY
COMBINATION CURB AND GUTTER REMOVAL, 87 LF
SIDEWALK REMOVAL, 465 SF
FRAMES AND LIDS TO BE ADJ. (SPECIAL)
MATCH LINE STA. 57+00
MATCH LINE STA. 63+00
BERNARD DR
453 BERNARD
443 BERNARD
435 BERNARD
415 BERNARD
405 BERNARD
397 BERNARD
423 BERNARD
404 HIAWATHA
367 BERNARD
HIAWATHA DR
SAN G21176 RIM=694.97 INV E 8'' VCP=685.72 INV W 8'' VCP=685.88
SAN G21101 RIM=692.82 INV N 8'' VCP=683.88 INV W 8'' VCP=683.98
SAN G20935 RIM=688.32 INV SE 8'' VCP=679.98 INV SW 8'' VCP=679.65 INV NW 8'' VCP=678.07
SAN G21041 RIM=690.50 INV NE 8'' VCP=681.59 INV SW 8'' VCP=681.67
DRIVEWAY PAVEMENT REMOVAL, 12 SY
DRIVEWAY PAVEMENT REMOVAL, 15 SY
DRIVEWAY PAVEMENT REMOVAL, 12 SY
SANITARY MANHOLES TO BE ADJUSTED
DRIVEWAY PAVEMENT REMOVAL, 11 SY
SIDEWALK REMOVAL, 1927 SF
COMBINATION CURB AND GUTTER REMOVAL, 497 LF
DRIVEWAY PAVEMENT REMOVAL, 13 SY
DRIVEWAY PAVEMENT REMOVAL, 10 SY
SANITARY MANHOLES TO BE ADJUSTED
HMA SURFACE REMOVAL 2'', 11 SY
SIDEWALK REMOVAL, 472 SF
DRIVEWAY PAVEMENT REMOVAL, 11 SY
COMBINATION CURB AND GUTTER REMOVAL, 118 LF
LIGHT POLE TO BE RELOCATED BY COMED
FRAMES AND LIDS TO BE ADJ. (SPECIAL)
SCALE IN FEET

FILE NAME = N:\BuffaloGrove\200385\Civil\VBG-ant-Cl_REM_01.dgn

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Rosemont, Illinois 60018
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CLIENT: Village of Buffalo Grove

Village of Buffalo Grove
51 RAUPP BOULEVARD
BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

NO.	DATE	NATURE OF REVISION	CHKD.

DSGN.	VMR
DWN.	MAK
CHKD.	LMF
USER NAME	= jstrick
PLOT DATE	= 11/1/2023

TITLE: **BERNARD DRIVE**
EXISTING CONDITIONS AND REMOVAL PLAN

SCALE: 1:20 | SHEET 1 OF 3 SHEETS | STA. 51+00.00 TO STA. 63+00.00

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 9 OF 97

REMOVAL LEGEND

- PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- HMA SURFACE REMOVAL 2"
- COMBINATION CURB AND GUTTER REMOVAL
- TREE REMOVAL
- RETIRED WATER MAIN
- STORM SEWER TO BE FILLED

MELINDA LN
RAUPP BLVD
BERNARD DR
FOREST PL
GLENDALE RD
GREGG LN
MATCH LINE STA. 63+00
MATCH LINE STA. 69+00
MATCH LINE STA. 75+00
SCALE IN FEET

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NO.	DATE	NATURE OF REVISION	CHKD.

DSGN.	VMR
DWN.	MAK
CHKD.	LMF
USER NAME = jstrick	
PLOT DATE = 11/1/2023	

TITLE:
BERNARD DRIVE
EXISTING CONDITIONS AND REMOVAL PLAN

SCALE: 1:20 | SHEET 2 OF 3 SHEETS | STA. 63+00.00 TO STA. 75+00.00

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 10 OF 97

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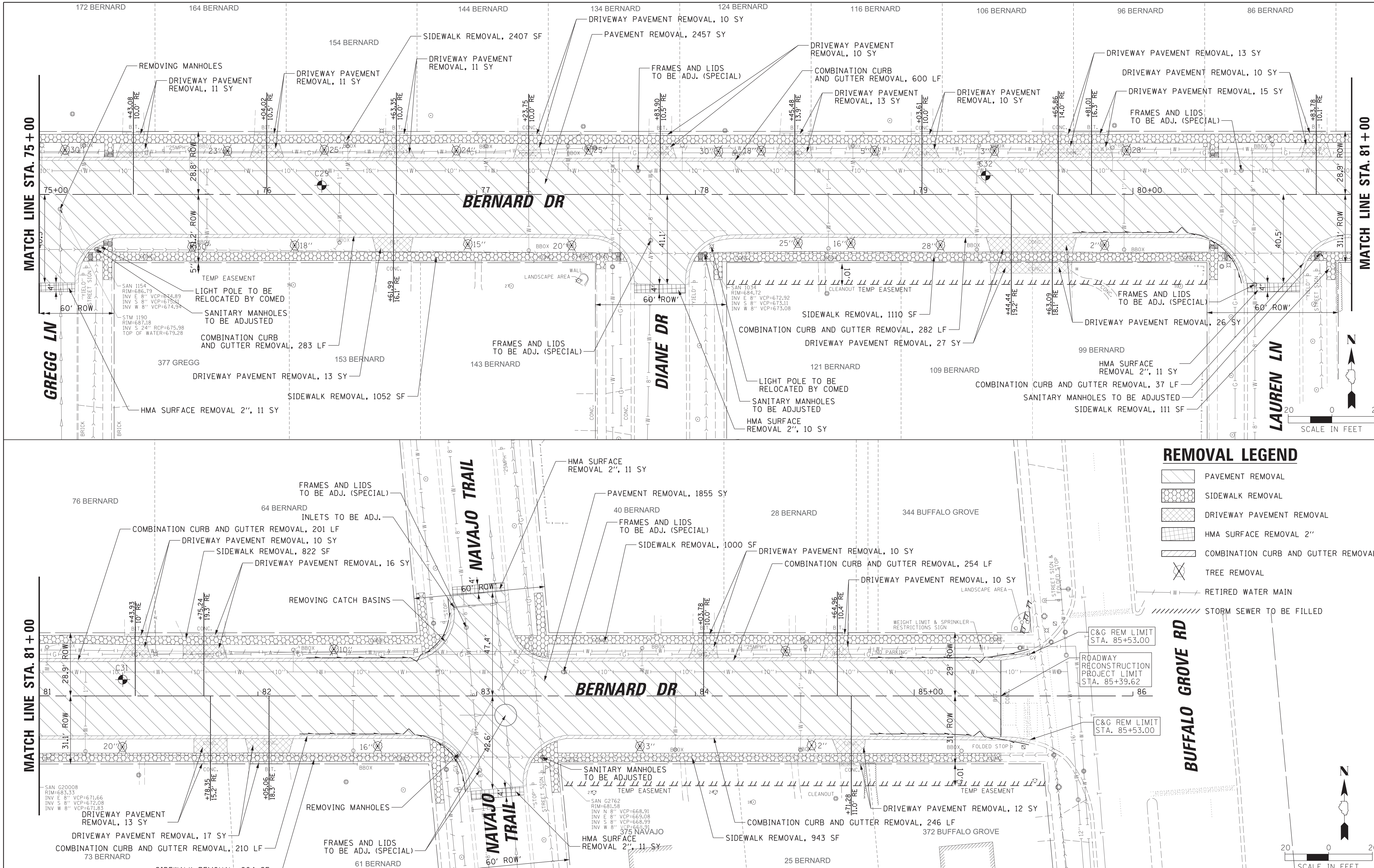

172 BERNARD
164 BERNARD
154 BERNARD
144 BERNARD
134 BERNARD
124 BERNARD
116 BERNARD
106 BERNARD
96 BERNARD
86 BERNARD
MATCH LINE STA. 75+00
MATCH LINE STA. 81+00
REMOVING MANHOLES
DRIVEWAY PAVEMENT REMOVAL, 11 SY
SIDEWALK REMOVAL, 2407 SF
DRIVEWAY PAVEMENT REMOVAL, 10 SY
PAVEMENT REMOVAL, 2457 SY
FRAMES AND LIDS TO BE ADJ. (SPECIAL)
COMBINATION CURB AND GUTTER REMOVAL, 600 LF
DRIVEWAY PAVEMENT REMOVAL, 13 SY
DRIVEWAY PAVEMENT REMOVAL, 15 SY
BERNARD DR
GREGG LN
DIANE DR
LAUREN LN
LIGHT POLE TO BE RELOCATED BY COMED
SANITARY MANHOLES TO BE ADJUSTED
COMBINATION CURB AND GUTTER REMOVAL, 283 LF
DRIVEWAY PAVEMENT REMOVAL, 13 SY
SIDEWALK REMOVAL, 1052 SF
HMA SURFACE REMOVAL 2", 11 SY
SIDEWALK REMOVAL, 1110 SF
COMBINATION CURB AND GUTTER REMOVAL, 282 LF
DRIVEWAY PAVEMENT REMOVAL, 27 SY
DRIVEWAY PAVEMENT REMOVAL, 26 SY
HMA SURFACE REMOVAL 2", 10 SY
COMBINATION CURB AND GUTTER REMOVAL, 37 LF
SANITARY MANHOLES TO BE ADJUSTED
SIDEWALK REMOVAL, 111 SF
377 GREGG
153 BERNARD
143 BERNARD
121 BERNARD
109 BERNARD
99 BERNARD
TEMP EASEMENT
60' ROW
SCALE IN FEET
76 BERNARD
64 BERNARD
40 BERNARD
28 BERNARD
344 BUFFALO GROVE
NAVAJO TRAIL
BUFFALO GROVE RD
COMBINATION CURB AND GUTTER REMOVAL, 201 LF
DRIVEWAY PAVEMENT REMOVAL, 10 SY
SIDEWALK REMOVAL, 822 SF
DRIVEWAY PAVEMENT REMOVAL, 16 SY
INLETS TO BE ADJ.
REMOVING CATCH BASINS
HMA SURFACE REMOVAL 2", 11 SY
PAVEMENT REMOVAL, 1855 SY
SIDEWALK REMOVAL, 1000 SF
COMBINATION CURB AND GUTTER REMOVAL, 254 LF
C&G REM LIMIT STA. 85+53.00
ROADWAY RECONSTRUCTION PROJECT LIMIT STA. 85+39.62
DRIVEWAY PAVEMENT REMOVAL, 17 SY
COMBINATION CURB AND GUTTER REMOVAL, 210 LF
SIDEWALK REMOVAL, 864 SF
REMOVING MANHOLES
COMBINATION CURB AND GUTTER REMOVAL, 246 LF
SIDEWALK REMOVAL, 943 SF
DRIVEWAY PAVEMENT REMOVAL, 12 SY
HMA SURFACE REMOVAL 2", 11 SY
73 BERNARD
61 BERNARD
375 NAVAJO
25 BERNARD
372 BUFFALO GROVE
REMOVAL LEGEND
PAVEMENT REMOVAL
SIDEWALK REMOVAL
DRIVEWAY PAVEMENT REMOVAL
HMA SURFACE REMOVAL 2"
COMBINATION CURB AND GUTTER REMOVAL
TREE REMOVAL
RETIRED WATER MAIN
STORM SEWER TO BE FILLED
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Rosemont, Illinois 60018
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CLIENT: **Village of Buffalo Grove**
51 RAUPP BOULEVARD
BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

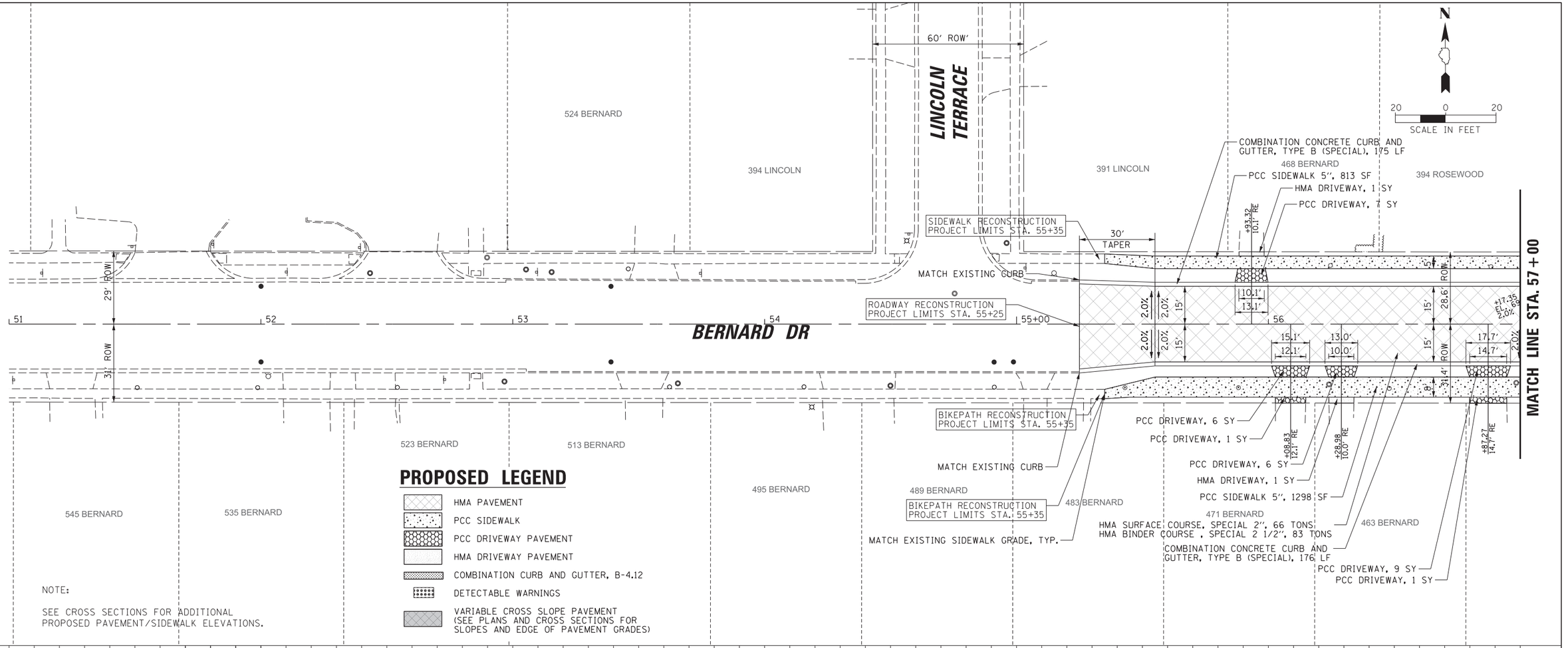
NO.	DATE	NATURE OF REVISION	CHKD.

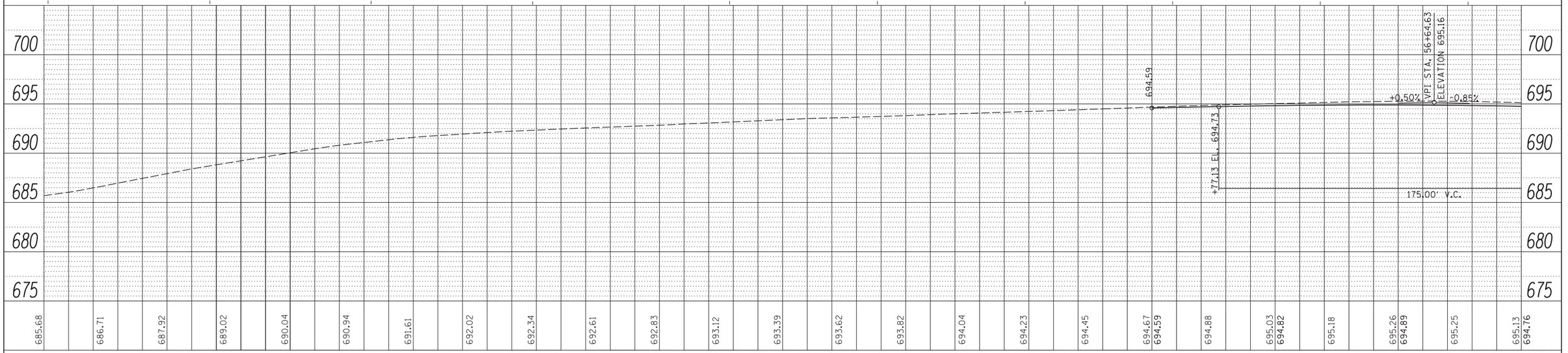
DSGN. VMR
DWN. MAK
CHKD. LMF
USER NAME = jsitrick
PLOT DATE = 11/1/2023

TITLE: **BERNARD DRIVE**
EXISTING CONDITIONS AND REMOVAL PLAN

SCALE: 1:20 | SHEET 3 OF 3 SHEETS | STA. 75+00.00 TO STA. 85+39.62

SECTION: 20-00108-01-RS
DATE: 11/1/2023





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CLIENT:

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BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

NO.	DATE	NATURE OF REVISION	CHKD.

DSGN.	VMR
DWN.	MAK
CHKD.	LMF
USER NAME	= jsitrick
PLOT DATE	= 11/1/2023

TITLE: **BERNARD DRIVE**
ROADWAY PLAN AND PROFILE

SCALE: 1:20 | SHEET 1 OF 6 SHEETS | STA. 51+00.00 TO STA. 57+00.00

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 12 OF 97

PROPOSED LEGEND

- HMA PAVEMENT
- PCC SIDEWALK
- PCC DRIVEWAY PAVEMENT
- HMA DRIVEWAY PAVEMENT
- COMBINATION CURB AND GUTTER, B-4.12
- DETECTABLE WARNINGS
- VARIABLE CROSS SLOPE PAVEMENT (SEE PLANS AND CROSS SECTIONS FOR SLOPES AND EDGE OF PAVEMENT GRADES)

N

20 0 20
SCALE IN FEET

ROSEWOOD AV

60' ROW

MATCH LINE STA. 57+00

MATCH LINE STA. 63+00

BERNARD DR

HIAWATHA DR

391 ROSEWOOD

374 BERNARD

400 BERNARD

422 BERNARD

410 BERNARD

453 BERNARD

443 BERNARD

435 BERNARD

423 BERNARD

415 BERNARD

405 BERNARD

397 BERNARD

404 HIAWATHA

367 BERNARD

PCC SIDEWALK 5", 213 SF

DETECTABLE WARNINGS, 10 SF

COMBINATION CONCRETE CURB AND GUTTER, TYPE B (SPECIAL), 56 LF

DETECTABLE WARNINGS, 10 SF

PCC SIDEWALK 5", 1950 SF

COMBINATION CONCRETE CURB AND GUTTER, TYPE B (SPECIAL), 415 LF

HMA SURFACE COURSE, SPECIAL 2", 256 TONS
HMA BINDER COURSE , SPECIAL 2 1/2", 320 TONS

PCC DRIVEWAY, 2 SY

PCC DRIVEWAY, 12 SY

PCC DRIVEWAY, 9 SY

HMA DRIVEWAY, 1 SY

PCC DRIVEWAY, 6 SY

PCC DRIVEWAY, 6 SY

HMA DRIVEWAY, 1 SY

PCC DRIVEWAY, 7 SY

PCC DRIVEWAY, 1 SY

PCC DRIVEWAY, 9 SY

PCC DRIVEWAY, 1 SY

COMBINATION CONCRETE CURB AND GUTTER, TYPE B (SPECIAL), 493 LF

PCC DRIVEWAY, 7 SY

PCC DRIVEWAY, 1 SY

PCC DRIVEWAY, 7 SY

PCC DRIVEWAY, 2 SY

PCC SIDEWALK 5", 3879 SF

PCC DRIVEWAY, 7 SY

HMA DRIVEWAY, 2 SY

DETECTABLE WARNINGS, 26 SF

DETECTABLE WARNINGS, 31 SF

MATCH EXISTING SIDEWALK GRADE, TYP.

PCC DRIVEWAY, 1 SY

PCC DRIVEWAY, 12 SY

PCC SIDEWALK 5", 539 SF

COMBINATION CONCRETE CURB AND GUTTER, TYPE B (SPECIAL), 118 LF

DETECTABLE WARNINGS, 26 SF

PCC DRIVEWAY, 6 SY

PCC DRIVEWAY, 2 SY

PCC SIDEWALK 5", 864 SF

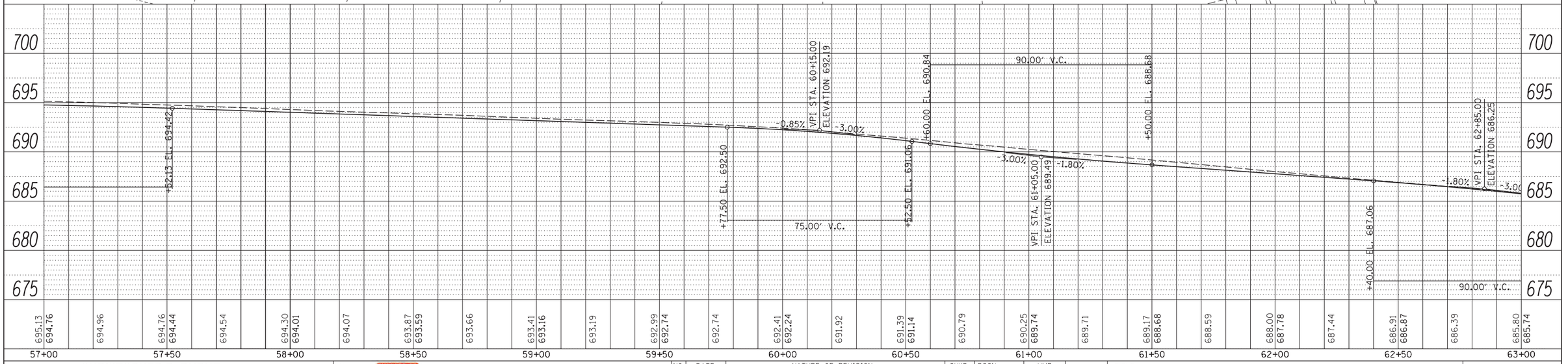
COMBINATION CONCRETE CURB AND GUTTER, TYPE B (SPECIAL), 116 LF

RELOCATED LIGHT POLE

DETECTABLE WARNINGS, 31 SF

NOTE:

SEE CROSS SECTIONS FOR ADDITIONAL PROPOSED PAVEMENT/SIDEWALK ELEVATIONS.



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BUFFALO GROVE, ILLINOIS 60089
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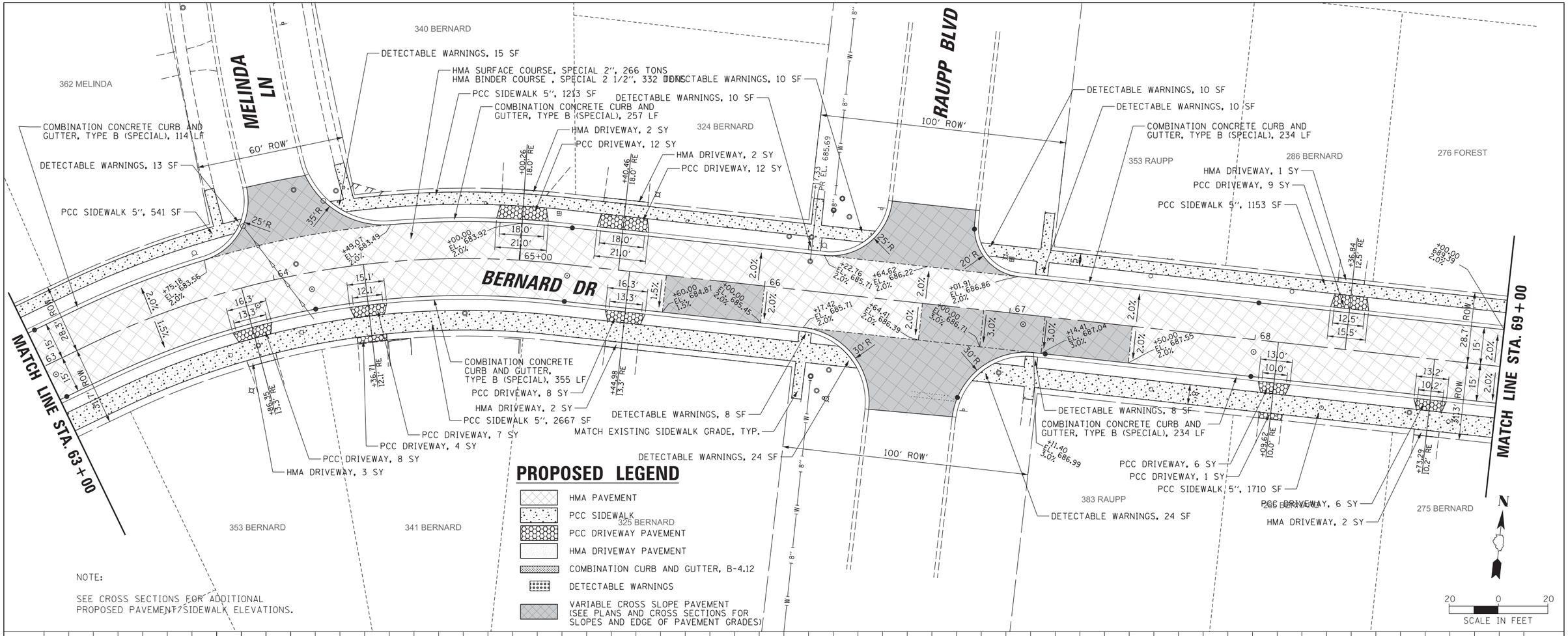
NO.	DATE	NATURE OF REVISION	CHKD.

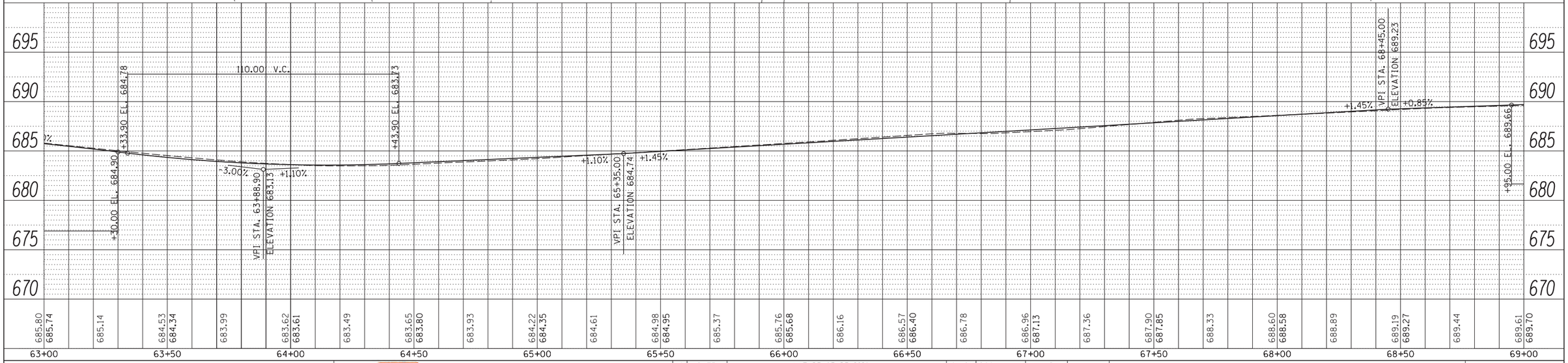
DSGN. VMR
DWN. MAK
CHKD. LMF
USER NAME = jsitrick
PLOT DATE = 11/1/2023

TITLE: **BERNARD DRIVE**
ROADWAY PLAN AND PROFILE

SCALE: 1:20 | SHEET 2 OF 6 SHEETS | STA. 57+00.00 TO STA. 63+00.00

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 13 OF 97





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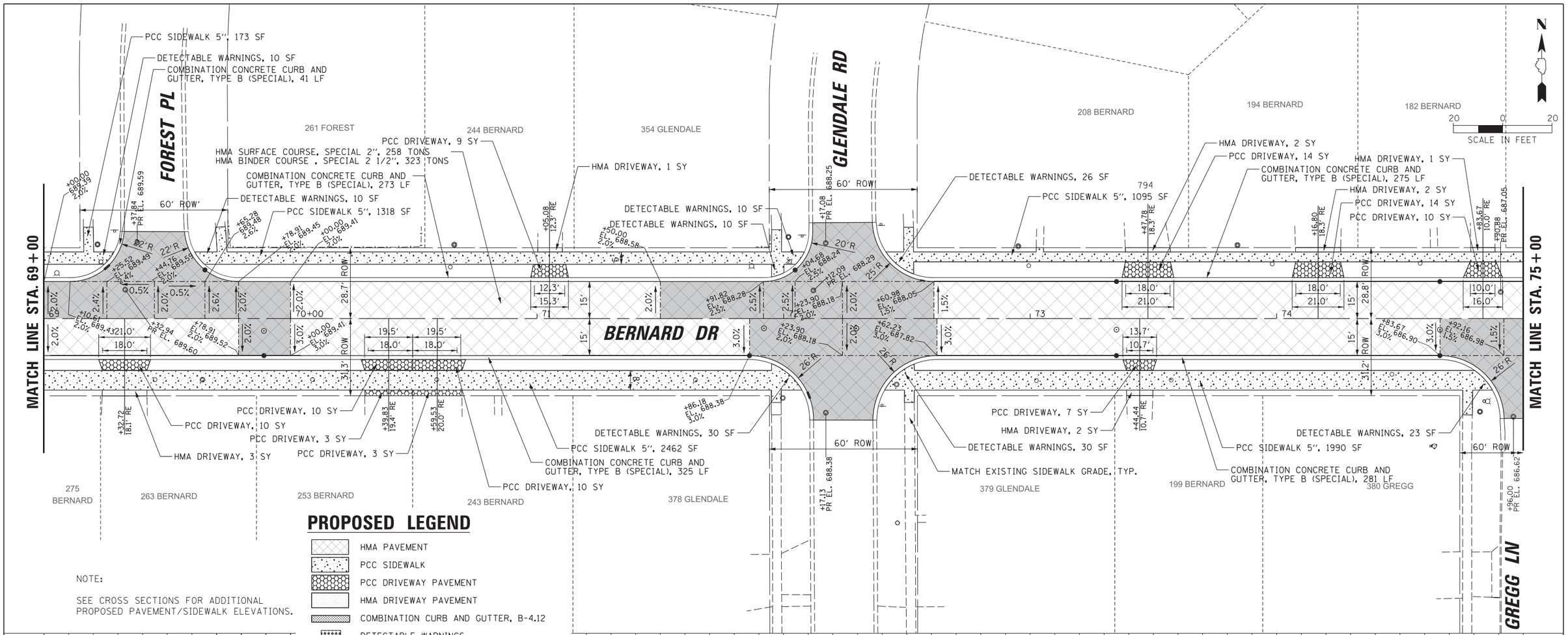
CHKD.	LMF
USER NAME	= jsitrick
PLOT DATE	= 11/1/2023

TITLE: **BERNARD DRIVE**
ROADWAY PLAN AND PROFILE

SCALE: 1:20 | SHEET 3 OF 6 SHEETS | STA. 63+00.00 TO STA. 69+00.00

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 14 OF 97

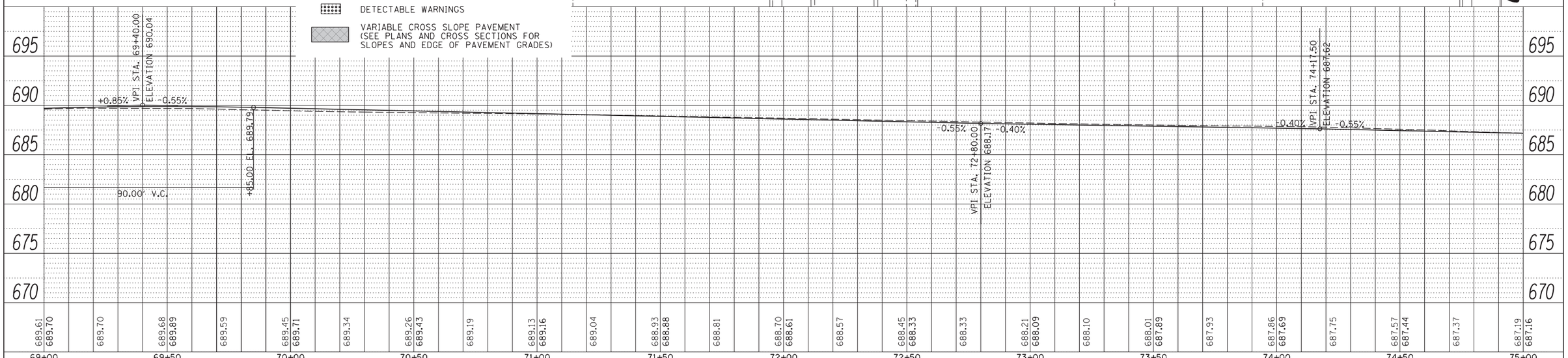


PROPOSED LEGEND

- HMA PAVEMENT
- PCC SIDEWALK
- PCC DRIVEWAY PAVEMENT
- HMA DRIVEWAY PAVEMENT
- COMBINATION CURB AND GUTTER, B-4.12
- DETECTABLE WARNINGS
- VARIABLE CROSS SLOPE PAVEMENT (SEE PLANS AND CROSS SECTIONS FOR SLOPES AND EDGE OF PAVEMENT GRADES)

NOTE:

SEE CROSS SECTIONS FOR ADDITIONAL PROPOSED PAVEMENT/SIDEWALK ELEVATIONS.



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Rosemont, Illinois 60018
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CLIENT: **Village of Buffalo Grove**
51 RAUPP BOULEVARD
BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

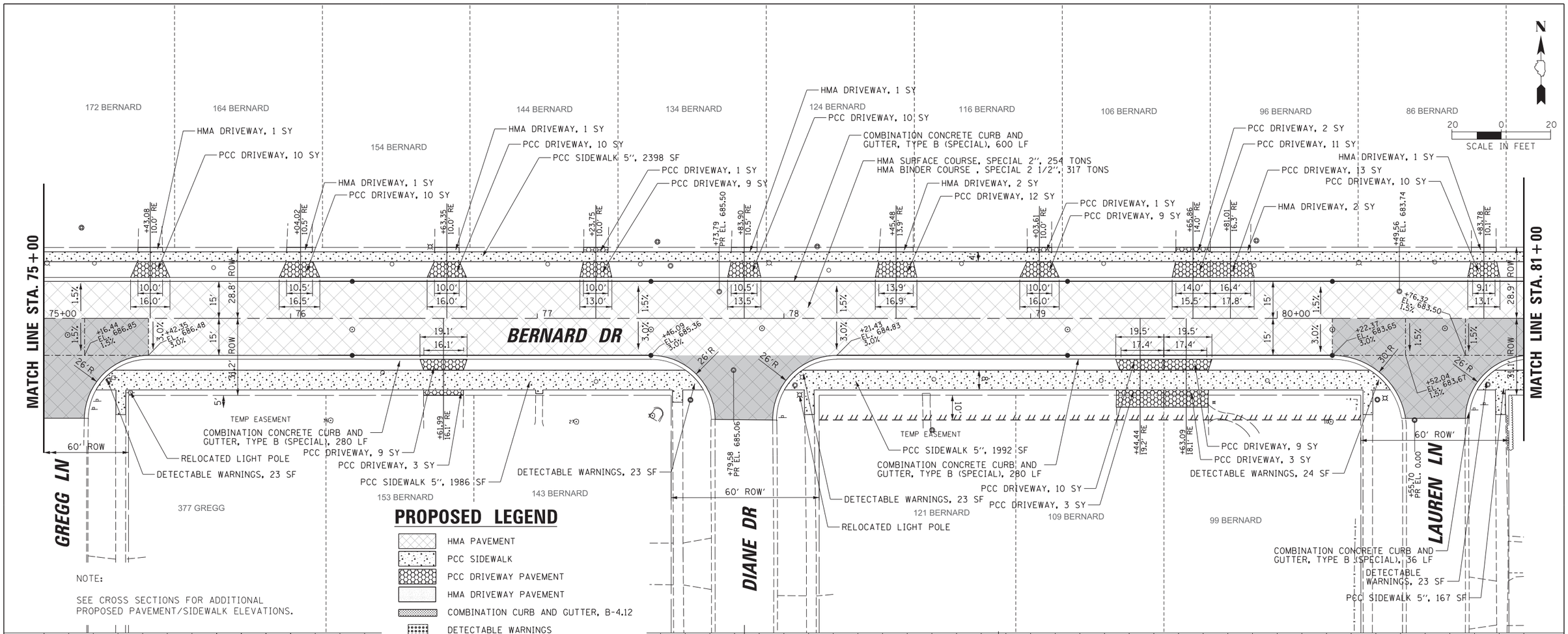
NO.	DATE	NATURE OF REVISION	CHKD.

DSGN. VMR
DWN. MAK
CHKD. LMF
USER NAME = jsirick
PLOT DATE = 11/1/2023

TITLE: **BERNARD DRIVE**
ROADWAY PLAN AND PROFILE

SCALE: 1:20 | SHEET 4 OF 6 SHEETS | STA. 69+00.00 TO STA. 75+00.00

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 15 OF 97

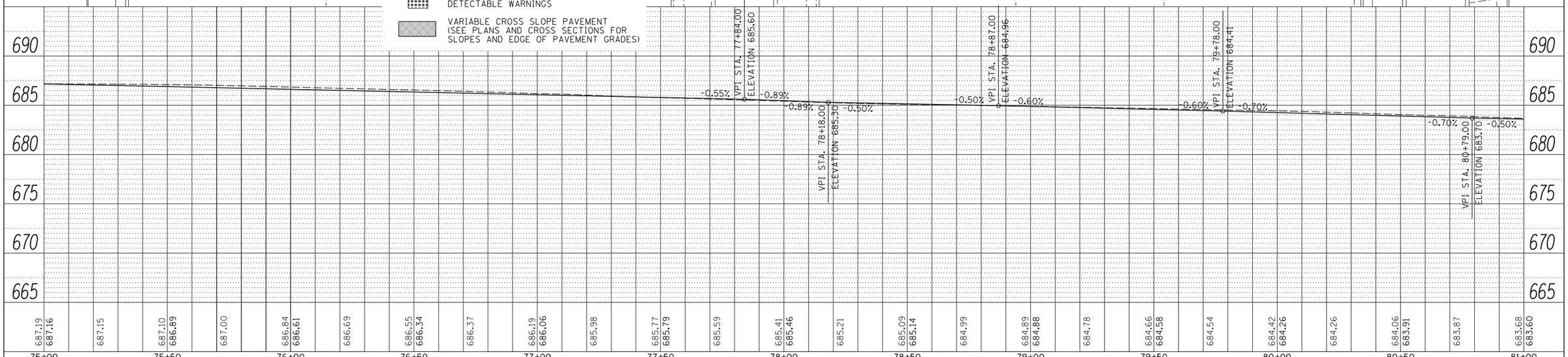


NOTE:

SEE CROSS SECTIONS FOR ADDITIONAL PROPOSED PAVEMENT/SIDEWALK ELEVATIONS.

PROPOSED LEGEND

- HMA PAVEMENT
- PCC SIDEWALK
- PCC DRIVEWAY PAVEMENT
- HMA DRIVEWAY PAVEMENT
- COMBINATION CURB AND GUTTER, B-4.12
- DETECTABLE WARNINGS
- VARIABLE CROSS SLOPE PAVEMENT (SEE PLANS AND CROSS SECTIONS FOR SLOPES AND EDGE OF PAVEMENT GRADES)



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9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

CLIENT:

Village of Buffalo Grove
51 RAUPP BOULEVARD
BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

NO.	DATE	NATURE OF REVISION	CHKD.

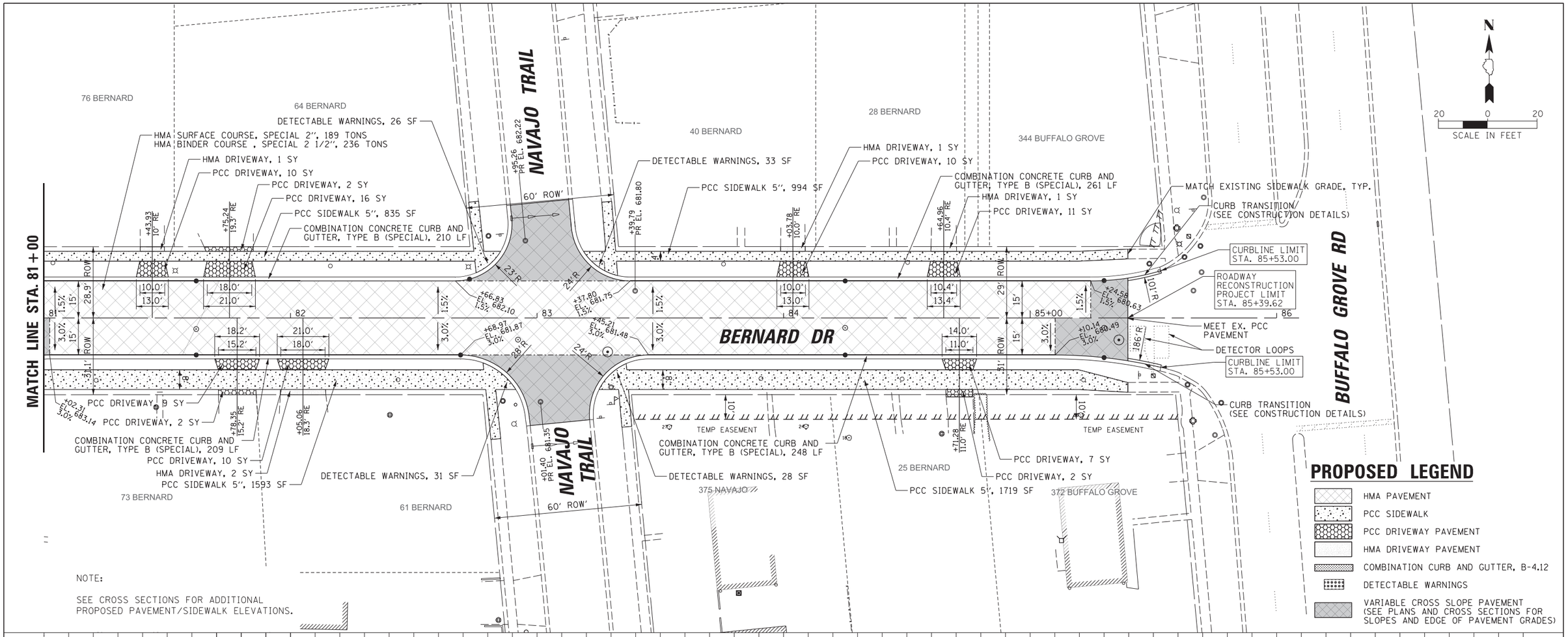
DSGN.	VMR
DWN.	MAK
CHKD.	LMF
USER NAME	= jsitrick
PLOT DATE	= 11/1/2023

TITLE:

BERNARD DRIVE
ROADWAY PLAN AND PROFILE

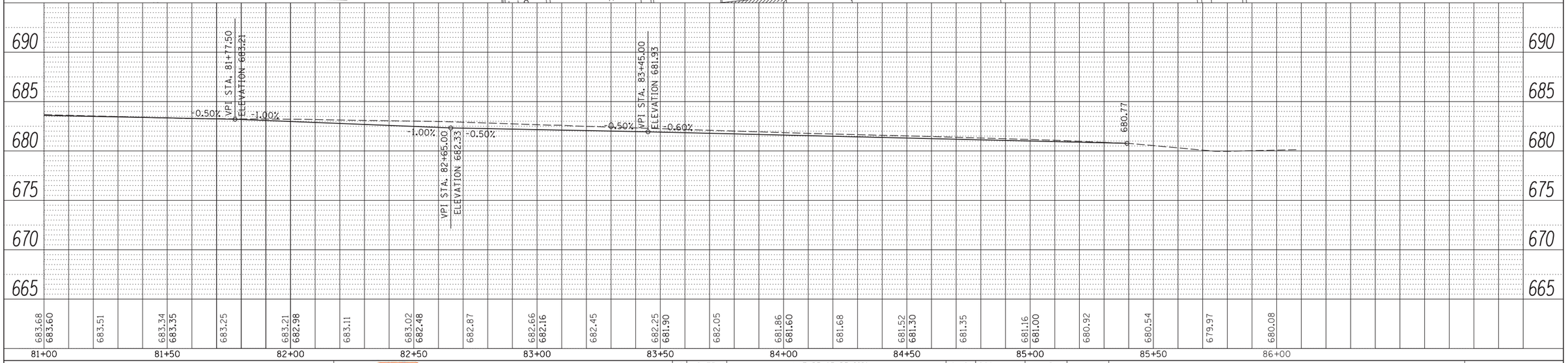
SCALE: 1:20	SHEET 5 OF 6 SHEETS	STA. 75+00.00 TO STA. 81+00.00	SECTION: 20-00108-01-RS
			DATE: 11/1/2023
			SHEET 16 OF 97

FILE NAME = N:\BuffaloGrove\200385\Civil\VBG-sht-CL.RPP.05.dgn



NOTE:

SEE CROSS SECTIONS FOR ADDITIONAL PROPOSED PAVEMENT/SIDEWALK ELEVATIONS.



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9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

CLIENT: **Village of Buffalo Grove**
51 RAUPP BOULEVARD
BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

NO.	DATE	NATURE OF REVISION	CHKD.

DSGN. VMR
DWN. MAK
CHKD. LMF
USER NAME = jsitrick
PLOT DATE = 11/1/2023

TITLE: **BERNARD DRIVE**
ROADWAY PLAN AND PROFILE

SCALE: 1:20 | SHEET 6 OF 6 SHEETS | STA. 81+00.00 TO STA. END

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 17 OF 97

1. ALL SIGNING SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", "THE QUALITY STANDARD FOR WORK ZONE TRAFFIC CONTROL DEVICES ADOPTED 2010", 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.

2. 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. CITY WILL PROVIDE CONTRACTOR WITH AGENCY NAMES AND CONTACT INFORMATION ONCE THE NOTICE IS SUBMITTED TO THE VILLAGE FOR REVIEW.

3. IF REQUESTED BY THE CONTRACTOR IN WRITING AT LEAST THREE WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT, THE ENGINEER WILL FIELD LOCATE THE POSITIONS OF ANY SIGNS.

4. LONGITUDINAL DIMENSIONS SHOWN ON THESE PLANS MAY BE ADJUSTED TO FIT FIELD CONDITIONS, WITH THE APPROVAL OF THE ENGINEER.

5. THE DETOUR SHALL NOT GO INTO EFFECT UNTIL ALL SIGNING IS ERECTED IN ACCORDANCE WITH THE DETOUR PLAN AND INSPECTED AND APPROVED BY THE ENGINEER.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT ALL BARRICADES, SIGNS, LIGHTS, AND OTHER DEVICES INSTALLED BY HIM/HER ARE IN PLACE AND OPERATING 24 HOURS EACH DAY INCLUDING SUNDAYS AND HOLIDAYS DURING THE TIME THE DETOUR IS IN EFFECT.

7. THE TRAFFIC CONTROL SHOWN ON THE DETOUR PLAN IS THE MINIMUM NECESSARY FOR THIS ROAD CLOSURE. THE CONTRACTOR SHALL MAKE ALL CHANGES IN TRAFFIC CONTROL THAT IS DEEMED NECESSARY BY THE ENGINEER. ADDITIONS AND DELETIONS OF TRAFFIC CONTROL FOR THIS DETOUR SHALL BE CONSIDERED INCLUDED IN THE COST OF THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION, (SPECIAL)".

8. 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.

9. ALL DETOUR SIGNING SHALL BE POST MOUNTED.

10. 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 OF THE SIGNS. THE ENGINEER SHALL BE THE SOLE JUDGE OF THE CONDITION OF THE SIGNS.

11. THE SIZES OF ALL SIGNS NOT SPECIFIED IN THESE PLANS SHALL BE AS REQUIRED BY THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

12. 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.

13. WHEN REQUIRED THE MINIMUM DIMENSIONS OF THE ORANGE WARNING FLAGS SHOWN IN THESE PLANS ARE 18" X 18". 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 IN WIDTH EACH, FOR A SINGLE APPROACH LANE.

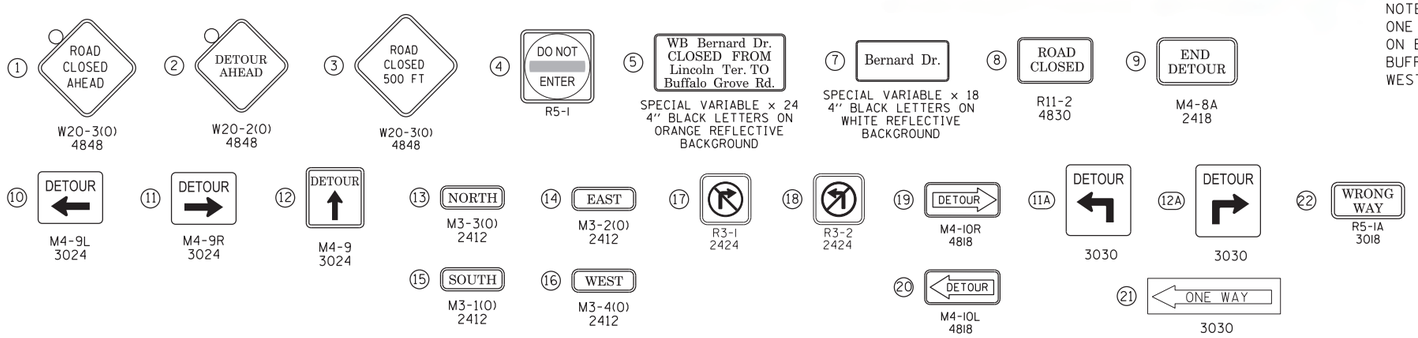
14. THE "ROAD CLOSED" (R11-2) SIGNS SHALL BE MOUNTED ABOVE THE TOP OF THE BARRICADE. ALL TYPE III BARRICADES SHALL HAVE TWO (2) AMBER TYPE A-LOW INTENSITY FLASHING LIGHTS SPACED NEAR THE CENTERLINE OF THE SUPPORTS.

15. THE ROAD NAME SIGN SHALL HAVE A BLACK LEGEND ON FLUORESCENT ORANGE REFLECTIVE SHEETING. THE SIGN BLANK SHALL BE A 9" X VARIABLE OR A 12" X VARIABLE WITH DESIGN SERIES C LETTERS. THE CAPITAL LETTERS SHALL BE 6" WITH 5" LOWER CASE.

16. 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.

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE VISIBILITY OF ALL DETOUR AND CONSTRUCTION SIGNING, INCLUDING BRUSHING BACK VEGETATION IF DEEMED NECESSARY BY THE ENGINEER.

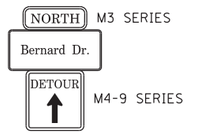
18. THE ENGINEER SHALL BE NOTIFIED AT LEAST TWO (2) HOURS BEFORE THE ROAD IS TO BE OPENED TO TRAFFIC. THE ENGINEER WILL CONTACT THE APPROPRIATE LOCAL AGENCIES AND INTERESTED PARTIES. VILLAGE WILL PROVIDE CONTRACTOR WITH AGENCY NAMES AND CONTACT INFORMATION ONCE THE NOTICE IS SUBMITTED TO THE VILLAGE FOR REVIEW.



NOTE:
ONE WAY EASTBOUND TRAFFIC ONLY WILL BE MAINTAINED ON BERNARD DRIVE FROM LINCOLN TERRACE TO BUFFALO GROVE ROAD THROUGHOUT CONSTRUCTION. WESTBOUND TRAFFIC WILL FOLLOW THE DETOUR ROUTE.

ALL WORK REQUIRED TO ERECT, MAINTAIN AND REMOVE THE DETOUR TO BE PAID AS TRAFFIC CONTROL AND PROTECTION (DETOUR)

DETAIL FOR TYPICAL DETOUR SIGN ASSEMBLY



LEGEND

- DETOUR ROUTE AND SIGNAGE ASSOCIATED WITH WESTBOUND BERNARD DRIVE LANE CLOSURE
- CONSTRUCTION ZONE
- TRAFFIC FOLLOWING THE DETOUR ROUTE
- ONE WAY TRAFFIC

FILE NAME = N:\BuffaloGrove\200385\Civil\MBC-ant-C1_MOT-Detour_02.dgn

CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

CLIENT: Village of Buffalo Grove

Village of Buffalo Grove
51 RAUPP BOULEVARD
BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

NO.	DATE	NATURE OF REVISION	CHKD.

DSGN. VMR
DWN. MAK
CHKD. LMF
USER NAME = jsitrick
PLOT DATE = 11/1/2023

TITLE: **BERNARD DRIVE**
MAINTENANCE OF TRAFFIC – DETOUR PLAN

SCALE: 1:20 | SHEET 1 OF 1 SHEETS | STA. TO STA.

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 18 OF 97

PROPOSED TREE LIST		
PAY ITEM	SYM.	DESCRIPTION
A2002879	Ce oc	TREE, CELTIS OCCIDENTALIS CHICAGOLAND, (CHICAGOLAND COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED
B2010070	Cl ke	TREE, CLADRASTIS KENTUCKEA (AMERICAN YELLOWWOOD), 2" CALIPER, BALLED AND BURLAPPED
A2004512	Gi bi	TREE, GINKGO BILOBA AUTUMN GOLD (AUTUMN GOLD GINKGO), 2" CALIPER, BALLED AND BURLAPPED
A2005016	Gy di	TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 2" CALIPER, BALLED AND BURLAPPED
A2005328	Li st	TREE, LIQUIDAMBAR STYRACIFLUA MORAINE (MORAINE SWEETGUM), 2" CALIPER, BALLED AND BURLAPPED
A2006516	Qu bi	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED
A2007916	Ti am	TREE, TILIA AMERICANA REDMOND (REDMOND AMERICAN LINDEN), 2' CALIPER, BALLED AND BURLAPPED
A2007616	Tad 12	TREE, TAXODIUM DISTICHUM (COMMON BALD CYPRESS), 2" CALIPER, BALLED AND BURLAPPED

N

20 0 20
SCALE IN FEET

LINCOLN TERRACE

524 BERNARD
394 LINCOLN
60' ROW'
391 LINCOLN
468 BERNARD
394 ROSEWOOD

29' ROW
31' ROW
28.6' ROW
31.4' ROW

ROADWAY RECONSTRUCTION
PROJECT LIMITS STA. 55+25.00

51 52 53 54 55+00 56

BERNARD DR

MATCH LINE STA. 57+00

545 BERNARD
535 BERNARD
523 BERNARD
513 BERNARD
489 BERNARD
483 BERNARD
471 BERNARD
463 BERNARD

EROSION LEGEND

GENERAL LANDSCAPE RESTORATION (SPECIAL)
TEMPORARY LANDSCAPE RESTORATION (SPECIAL)

INLET FILTER

60' ROW'
ROSEWOOD AV
391 ROSEWOOD
374 BERNARD

MATCH LINE STA. 57+00
28.6' ROW
31.4' ROW
57 58 59 60+00 61 62

PROP. TREE, Li ST
PROP. TREE, Ce oc
PROP. TREE, Gi bi
PROP. TREE, Cl ke
PROP. TREE, Gy di
PROP. TREE, Li st

422 BERNARD
400 BERNARD

INLET FILTER, TYP.

CONCRETE WASHOUT

60' ROW'
28.3' ROW
31.7' ROW
MATCH LINE STA. 63+00

453 BERNARD
443 BERNARD
435 BERNARD
423 BERNARD
415 BERNARD
405 BERNARD
397 BERNARD
404 HIAWATHA
367 BERNARD

HIAWATHA DR

N

20 0 20
SCALE IN FEET

FILE NAME = N:\BuffaloGrove\200385\Civil\VBG-ant-CLEGP.01.dgn

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Rosemont, Illinois 60018
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CLIENT:

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BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

NO.	DATE	NATURE OF REVISION	CHKD.

DSGN.	VMR
DWN.	MAK
CHKD.	LMF
USER NAME	= jsitrick
PLOT DATE	= 11/1/2023

TITLE:
BERNARD DRIVE
EROSION CONTROL AND LANDSCAPING PLAN

SCALE: 1:20 | SHEET 1 OF 3 SHEETS | STA. 51+00.00 TO STA. 63+00.00

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 19 OF 97

PROPOSED TREE LIST		
PAY ITEM	SYM.	DESCRIPTION
A2002879	Ce oc	TREE, CELTIS OCCIDENTALIS CHICAGOLAND, (CHICAGOLAND COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED
B2010070	Cl ke	TREE, CLADRASTIS KENTUCKEA (AMERICAN YELLOWWOOD), 2" CALIPER, BALLED AND BURLAPPED
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A2005016	Gy di	TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 2" CALIPER, BALLED AND BURLAPPED
A2005328	Li st	TREE, LIQUIDAMBAR STYRACIFLUA MORAINE (MORAINE SWEETGUM), 2" CALIPER, BALLED AND BURLAPPED
A2006516	Qu bi	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED
A2007916	Ti am	TREE, TILIA AMERICANA REDMOND (REDMOND AMERICAN LINDEN), 2" CALIPER, BALLED AND BURLAPPED
A2007616	Tad 12	TREE, TAXODIUM DISTICHUM (COMMON BALD CYPRESS), 2" CALIPER, BALLED AND BURLAPPED

N

20 0 20
SCALE IN FEET

MELINDA LN
60' ROW
362 MELINDA
340 BERNARD
324 BERNARD
PROP. TREE, Li st
PROP. TREE, Gy di
RAUPP BLVD
100' ROW
353 RAUPP
286 BERNARD
276 FOREST
PROP. TREE, Li st
MATCH LINE STA. 63+00
BERNARD DR
65+00
64
66
67
68
INLET FILTER, TYP.
28.7' ROW
31.3' ROW
63
325 BERNARD
353 BERNARD
383 RAUPP
285 BERNARD
275 BERNARD
MATCH LINE STA. 69+00

EROSION LEGEND

GENERAL LANDSCAPE RESTORATION (SPECIAL)
TEMPORARY LANDSCAPE RESTORATION (SPECIAL)
INLET FILTER

N

20 0 20
SCALE IN FEET

FOREST PL
60' ROW
261 FOREST
354 GLENDALE
PROP. TREE, Ce oc
PROP. TREE, Li st
194 BERNARD
PROP. TREE, Gi bi
182 BERNARD
208 BERNARD
PROP. TREE, Ce oc
PROP. TREE, Li st
60' ROW
MATCH LINE STA. 69+00
28.7' ROW
31.3' ROW
69
70+00
71
BERNARD DR
72
73
74
INLET FILTER, TYP.
28.8' ROW
31.2' ROW
MATCH LINE STA. 75+00
GLENDALE RD
60' ROW
GREGG LN
60' ROW
275 BERNARD
263 BERNARD
253 BERNARD
243 BERNARD
378 GLENDALE
379 GLENDALE
380 GREGG

FILE NAME = N:\BuffaloGrove\200385\Civil\VBG-ant-CLEGP_02.dgn

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NO.	DATE	NATURE OF REVISION	CHKD.

DSGN.	VMR
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USER NAME	= jsitrick
PLOT DATE	= 11/1/2023

TITLE:
BERNARD DRIVE
EROSION CONTROL AND LANDSCAPING PLAN

SCALE: 1:20 | SHEET 2 OF 3 SHEETS | STA. 63+00.00 TO STA. 75+00.00

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 20 OF 97

172 BERNARD | 164 BERNARD | 154 BERNARD | 144 BERNARD | 134 BERNARD | 124 BERNARD | 116 BERNARD | 106 BERNARD | 96 BERNARD | 86 BERNARD

PROP. TREE, Cl ke | PROP. TREE, Ti am | PROP. TREE, Tad 12 | PROP. TREE, Ti am | PROP. TREE, Cl ke | PROP. TREE, Qu bi | CONCRETE WASHOUT | PROP. TREE, Gi bi

PROP. TREE, Gi bi

MATCH LINE STA. 75+00

28.8' ROW

31.2' ROW

75+00 | 76 | 77 | 78 | 79 | 80+00

BERNARD DR

28.9' ROW

31.1' ROW

MATCH LINE STA. 81+00

INLET FILTER, TYP.

TEMP EASEMENT

10'

60' ROW

377 GREGG | 153 BERNARD | 143 BERNARD | 121 BERN | 99 BERNARD

GREGG LN | **DIANE DR** | **LAUREN LN**

N

20 0 20

SCALE IN FEET

PROPOSED TREE LIST		
PAY ITEM	**SYM.**	**DESCRIPTION**
A2002879	Ce oc	TREE, CELTIS OCCIDENTALIS CHICAGOLAND, (CHICAGOLAND COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED
B2010070	Cl ke	TREE, CLADRASTIS KENTUCKEA (AMERICAN YELLOWWOOD), 2" CALIPER, BALLED AND BURLAPPED
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A2006516	Qu bi	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED
A2007916	Ti am	TREE, TILIA AMERICANA REDMOND (REDMOND AMERICAN LINDEN), 2" CALIPER, BALLED AND BURLAPPED
A2007616	Tad 12	TREE, TAXODIUM DISTICHUM (COMMON BALD CYPRESS), 2" CALIPER, BALLED AND BURLAPPED

EROSION LEGEND

GENERAL LANDSCAPE RESTORATION (SPECIAL)
TEMPORARY LANDSCAPE RESTORATION (SPECIAL)

INLET FILTER

76 BERNARD | 64 BERNARD | 40 BERNARD | 28 BERNARD

NAVAJO TRAIL

PROP. TREE, Cl ke | PROP. TREE, Gi bi | PROP. TREE, Li st | PROP. TREE, Gi bi

MATCH LINE STA. 81+00

28.9' ROW

31.1' ROW

81 | 82 | 83 | **BERNARD DR** | 84 | 85+00 | 86

INLET FILTER, TYP.

ROADWAY RECONSTRUCTION PROJECT LIMIT STA. 85+39.62

TEMP EASEMENT

10'

60' ROW

73 BERNARD | 61 BERNARD | 375 NAVAJO | 25 BERNARD | 372 BUFFALO GROVE

BUFFALO GROVE RD

N

20 0 20

SCALE IN FEET

FILE NAME = N:\BuffaloGrove\200385\Civil\VBG-sht-Cl_EEP_03.dgn

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DSGN.	VMR
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CHKD.	LMF
USER NAME	= jsitrick
PLOT DATE	= 11/1/2023

TITLE:

BERNARD DRIVE
EROSION CONTROL AND LANDSCAPING PLAN

SCALE: 1:20 | SHEET 3 OF 3 SHEETS | STA. 75+00.00 TO STA. 86+09.08

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 21 OF 97

NO.	STRUCTURE	FRAME TYPE	STATION	OFFSET	RIM	INVERT ELEVATIONS				ALT (SEE PLANS)
						N	S	E	W	
S101	CB TA 4'	T11 F&G	58+50.00	15.00' LT	693.14		689.64			
S102	MH TA 4'	T1 F, CL	58+50.00	5.00' RT	693.49	689.44	689.69	688.85		
S103	CB TA 4'	T11 F&G	58+50.00	15.00' RT	693.29	689.79				
S104	CB TA 4'	T11 F&G	60+02.69	15.00' LT	691.90		688.40			
S105	MH TA 5'	T1 F, CL	60+02.69	5.94' RT	692.08	688.19	688.40	686.75	687.18	
S106	CB TA 4'	T11 F&G	59+94.06	15.00' RT	692.03	688.53				
S107	CB TA 4'	T11 F&G	61+46.73	15.00' LT	688.44		684.94	685.24 (PUD)	686.44 (PUD)	
S108	MH TA 4'	T1 F, CL	61+46.89	7.12' RT	688.63	684.72	684.93	683.40	683.81	
S109	CB TA 4'	T11 F&G	61+46.94	15.00' RT	688.51	685.01		686.13 (PUD)	686.51 (PUD)	
S110	INL TA 2'	T11 F&G	61+70.44	31.46' RT	688.34			684.68		
S111	CB TA 4'	T11 F&G	61+97.38	31.46' RT	687.91	684.41	685.91 (PUD)	684.27 (PUD)	684.41	
S112	MH TA 4'	T1 F, CL	61+97.37	6.44' RT	687.73		684.16	682.29	682.29	
S201	CB TA 4'	T11 F&G	63+03.00	15.00' LT	658.36		654.86			
S202	MH TA 4'	T1 F, CL	63+03.02	5.00' RT	685.58	654.66	681.83	680.00	680.00	
S203	CB TA 4'	T11 F&G	63+03.02	15.00' RT	685.43	681.93		680.85	673.97	
S204	"DOGHOUSE" MH TA 7'	T1 F, CL	63+90.99	8.47' RT	683.55	673.97 (EX)	673.97 (EX)	673.97	677.00	
S205	MH TA 5'	T1 F, CL	64+14.39	6.80' RT	683.47		679.77	674.20	674.20	
S206	CB TA 4'	T11 F&G	64+14.39	15.00' RT	683.35	679.85		681.26 (PUD)	681.35 (PUD)	
CB G20520	EX CB		63+92.92	24.10' LT	682.45	673.69 (EX)	673.77 (EX)	674.60 (EX)	680.45 (PUD)	680.39 (PUD)
CB G20388	EX CB		64+24.60	27.78' LT	682.37			680.37 (PUD)	677.52 (EX)	
S207	CB TA 4'	T11 F&G	65+19.99	15.00' LT	684.27		680.77			
S208	MH TA 5'	T1 F, CL	65+19.99	4.50' RT	684.50	680.58	680.75	675.24	675.24	
S209	CB TA 4'	T11 F&G	65+19.99	15.00' RT	684.35	680.85				
S210	CB TA 4'	T11 F&G	66+82.10	32.22' LT	685.98		682.48			
S211	MH TA 6'	T1 F, CL	67+05.91	4.00' RT	687.20	682.05	683.41	681.85	677.10	682.50
S212	CB TA 4'	T11 F&G	66+82.66	36.40' RT	686.40	682.90				
S213	CB TA 4'	T11 F&G	67+16.15	15.00' RT	687.06				683.56	
S214	CB TA 4'	T11 F&G	68+00.01	15.00' LT	688.28		684.78			
S215	MH TA 4'	T1 F, CL	68+00.01	5.00' RT	688.48	684.58	684.68		683.33	
S216	CB TA 4'	T11 F&G	68+00.01	15.00' RT	688.28	684.78				
S301	INL TA 2'	T11 F&G	69+25.55	20.85' LT	689.26				685.83	
S302	CB TA 4'	T11 F&G	69+65.28	19.73' LT	689.25		685.66	685.66		
S303	MH TA 4'	T1 F, CL	69+89.21	5.00' RT	689.67	685.51	685.87	685.51		
S304	CB TA 4'	T11 F&G	69+89.21	15.00' RT	689.47	685.97				
S305	INL TA 2'	T11 F&G	72+10.20	31.05' RT	688.02	684.76				
S306	CB TA 4'	T11 F&G	71+86.18	15.00' RT	688.38	684.63	684.63	685.29 (PUD)	686.16 (PUD)	
S307	MH TA 5'	T1 F, CL	71+92.03	3.93' RT	688.57	684.58	684.58	684.58	684.58	
S308	CB TA 4'	T1 F, OL	72+04.68	19.68' LT	688.00	686.00 (PUD)	684.69	684.69	686.00 (PUD)	
S309	INL TA 2'	T1 F, OL	72+45.29	20.54' LT	688.02	686.02 (PUD)		686.02 (PUD)	684.92	
S310	MH TA 6'	T1 F, CL	72+29.50	3.93' RT	688.36		679.59	678.59	684.40	
S311	CB TA 4'	T11 F&G	73+35.02	15.00' RT	687.72		684.22			
S312	MH TA 5'	T1 F, CL	73+35.02	4.50' RT	687.81	684.03	683.90	678.09	678.09	
S313	CB TA 4'	T11 F&G	73+35.02	15.00' RT	687.50	684.00				
S314	CB TA 4'	T11 F&G	74+66.21	15.00' LT	687.13		683.63			
S315	MH TA 5'	T1 F, CL	74+66.21	4.50' RT	687.22	683.44	683.30	676.13	677.45	
S316	CB TA 4'	T11 F&G	74+66.21	15.00' RT	686.90	683.40				
S400	MH TA 6'	T1 F, CL	75+09.57	6.71' RT	687.01		675.98 (EX)	675.92	675.92	
S401	CB TA 4'	T11 F&G	76+24.99	15.00' LT	686.25		682.75			
S402	MH TA 5'	T1 F, CL	76+24.99	4.50' RT	686.34	682.56	682.43	675.32	675.32	
S403	CB TA 4'	T11 F&G	76+24.99	15.00' RT	686.03	682.53				
S404	CB TA 4'	T11 F&G	77+46.09	15.00' RT	685.59		682.09			
S405	MH TA 5'	T1 F, CL	77+46.09	4.50' RT	685.68	681.90	681.76	674.74	674.74	
S406	CB TA 4'	T11 F&G	77+46.09	15.00' RT	685.36	681.86				
S407	MH TA 6'	T1 F, CL	77+91.10	4.00' RT	685.41		675.52	674.52	674.52	
S408	CB TA 4'	T11 F&G	79+15.00	15.00' LT	684.56		681.06			
S409	MH TA 5'	T1 F, CL	79+15.00	2.58' RT	684.71	680.87	680.74	673.93	673.93	
S410	CB TA 4'	T11 F&G	79+15.00	15.00' RT	684.34	680.84				
S411	CB TA 4'	T11 F&G	80+22.37	15.00' LT	683.87		680.37			
S412	MH TA 5'	T1 F, CL	80+22.37	4.50' RT	683.96	680.18	680.05	673.35	673.35	
S413	CB TA 4'	T11 F&G	80+22.37	15.00' RT	683.65	680.15		680.84 (PUD)	681.49 (PUD)	
S414	MH TA 6'	T1 F, CL	80+68.00	4.00' RT	683.72		674.13	673.13	673.13	
S501	CB TA 4'	T11 F&G	81+61.74	15.00' LT	683.06		679.56			
S502	MH TA 5'	T1 F, CL	81+61.74	4.50' RT	683.15	679.37	679.24	672.69	672.69	
S503	CB TA 4'	T11 F&G	81+61.74	15.00' RT	682.84	679.34				
S504	CB TA 4'	T1 F, OL	82+72.61	15.74' LT	682.06		678.56	680.00 (PUD)	680.09 (PUD)	
S505	*NOT USED*									
S506	MH TA 6'	T1 F, CL	82+92.28	8.80' RT	681.93	678.25	678.13	672.04 (EX)	672.04	
EX MH	EX MH TA 10'		83+13.28	8.80' RT	681.83	672.04 (EX)	671.71 (EX)	673.40	672.00 (EX)	
S507	CB TA 4'	T11 F&G	82+68.97	15.00' RT	681.87	678.37		678.59 (PUD)	679.84 (PUD)	
S508	CB TA 4'	T11 F&G	84+24.98	15.00' LT	681.23		677.73			
S509	MH TA 6'	T1 F, CL	84+24.98	4.00' RT	681.34	677.54	677.40	673.15	673.15	
S510	CB TA 4'	T11 F&G	84+24.98	15.00' RT	681.01	677.51				
S511	CB TA 4'	T11 F&G	85+29.99	15.15' LT	680.50		677.00	678.23 (PUD)	678.40 (PUD)	
S512	MH TA 6'	T1 F, CL	85+29.99	4.00' RT	680.70	676.81	676.74		672.92	
S513	CB TA 4'	T11 F&G	85+29.99	16.07' RT	680.36	676.86		678.04 (PUD)	678.18 (PUD)	
S601	"DOGHOUSE" MH TA 4'	T1 F, CL	103+20.13	5.67' LT	689.11	679.96		684.39 (EX)	684.39 (EX)	
S701	"DOGHOUSE" MH TA 5'	T1 F, CL	203+01.22	7.13' LT	682.63	675.90		677.61 (EX)	677.61 (EX)	
S801	"DOGHOUSE" MH TA 8'	T1 F, CL	302+86.28	4.31' LT	681.50	674.61		675.51 (EX)	675.51 (EX)	

FILE NAME = N:\BuffaloGrove\200385\Civil\VBG-sht-CI.DRN-StrucSCHEDULE.dgn

CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

CLIENT: **Village of Buffalo Grove**
51 RAUPP BOULEVARD
BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

NO.	DATE	NATURE OF REVISION	CHKD.

DSGN. EMB
DWN. EMB
CHKD. LMF
USER NAME = jstrick
PLOT DATE = 11/1/2023

TITLE: **BERNARD DRIVE DRAINAGE SCHEDULE**

SCALE: 1:1 | SHEET 1 OF 2 SHEETS | STA. TO STA.

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 22 OF 97

NO	UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	LENGTH (FEET)	SIZE (INCHES)	SS OR PC	ELLIP-TICAL	CLASS	TYPE	SLOPE (%)	UPSTREAM INVERT	DOWNSTREAM INVERT	TRENCH BACKFILL (CU. YD.)
P101	S101	S102	20	12	SS		WM QUAL	N/A	1.00%	689.64	689.44	6
P102	S103	S102	10	12	SS			1	1.00%	689.79	689.69	3
P103	S102	S105	154	15	SS			2	1.09%	688.85	687.18	103
P104	S104	S105	21	12	SS		WM QUAL	N/A	1.00%	688.40	688.19	6
P105	S106	S105	13	12	SS			1	1.00%	688.53	688.40	4
P106	S105	S108	146	18	SS			2	2.02%	686.75	683.81	107
P107	S107	S108	22	12	SS		WM QUAL	N/A	1.00%	684.94	684.72	7
P108	S109	S108	8	12	SS			1	1.00%	685.01	684.93	2
P109	S108	S112	50	24	SS		WM QUAL	N/A	2.20%	683.40	682.29	40
P110	S110	S111	27	12	SS		WM QUAL	N/A	1.00%	684.68	684.41	8
P111	S111	S112	25	12	SS			1	1.00%	684.41	684.16	7
P112	S112	S202	106	24	SS			2	2.17%	682.29	680.00	87
P201	S201	S202	20	12	SS		WM QUAL	N/A	1.00%	654.86	654.66	53
P202	S203	S202	10	12	SS			1	1.00%	681.93	681.83	3
P203	S202	S204	86	24	SS			2	3.47%	680.00	677.00	81
P204	S205	S204	23	30	SS			2	1.00%	674.20	673.97	39
P205	S206	S205	8	12	SS			1	1.00%	679.85	679.77	2
P206	S208	S205	104	30	SS			2	1.00%	675.24	674.20	173
P207	S207	S208	20	12	SS		WM QUAL	N/A	1.00%	680.77	680.58	6
P208	S209	S208	11	12	SS			1	1.00%	680.85	680.75	5
P209	S211	S208	186	24	SS		WM QUAL	N/A	1.00%	677.10	675.24	242
P210	S210	S211	43	12	SS		WM QUAL	N/A	1.00%	682.48	682.05	25
P211	S212	S211	40	12	SS			1	1.00%	682.90	682.50	14
P212	S213	S212	15	12	SS			1	1.00%	683.56	683.41	4
P213	S215	S211	94	18	SS			2	1.57%	683.33	681.85	72
P214	S214	S215	20	12	SS		WM QUAL	N/A	1.00%	684.78	684.58	6
P215	S216	S215	10	12	SS			1	1.00%	684.78	684.68	92
P301	S301	S302	40	12	SS		WM QUAL	N/A	0.44%	685.83	685.66	12
P302	S302	S303	34	12	SS		WM QUAL	N/A	0.44%	685.66	685.51	11
P303	S304	S303	10	12	SS			1	1.00%	685.97	685.87	3
P304	S303	S307	203	12	SS			1	0.46%	685.51	684.58	71
P305	S305	S306	29	12	SS			1	0.44%	684.76	684.63	5
P306	S306	S307	13	12	SS			1	0.44%	684.63	684.58	3
P307	S308	S307	27	12	SS			1	0.44%	684.69	684.58	8
P308	S309	S308	49	12	SS		WM QUAL	N/A	0.46%	684.92	684.69	13
P309	S307	S310	37	15	SS		WM QUAL	N/A	0.47%	684.58	684.40	13
P310	S310	S312	106	36	SS			2	0.47%	678.59	678.09	71
P311	S311	S312	20	12	SS		WM QUAL	N/A	1.00%	684.22	684.03	6
P312	S313	S312	11	12	SS			1	1.00%	684.00	683.90	3
P313	S312	S315	131	36	SS			2	0.49%	678.09	677.45	241
P314	S314	S315	20	12	SS		WM QUAL	N/A	1.00%	683.63	683.44	6
P315	S316	S315	11	12	SS			1	1.00%	683.40	683.30	3
P316	S315	S400	43	36	SS	YES	WM QUAL	N/A	0.49%	676.13	675.92	94
P401	S400	S402	115	36	SS			2	0.52%	675.92	675.32	250
P402	S401	S402	20	12	SS		WM QUAL	N/A	1.00%	682.75	682.56	6
P403	S403	S402	11	12	SS			1	1.00%	682.53	682.43	3
P404	S402	S405	121	36	SS			2	0.48%	675.32	674.74	260
P405	S404	S405	20	12	SS		WM QUAL	N/A	1.00%	682.09	681.90	6
P406	S406	S405	11	12	SS			1	1.00%	681.86	681.76	3
P407	S405	S407	45	36	SS	YES	WM QUAL	N/A	4.00%	674.74	674.52	96
P408	S407	S409	124	36	SS			2	2.70%	674.52	673.93	261
P409	S408	S409	20	12	SS		WM QUAL	N/A	1.00%	681.06	680.87	6
P410	S410	S409	11	12	SS			1	1.00%	680.84	680.74	3
P411	S409	S412	107	36	SS			2	0.54%	673.93	673.35	223
P412	S411	S412	20	12	SS		WM QUAL	N/A	1.00%	680.37	680.18	6
P413	S413	S412	11	12	SS			1	1.00%	680.15	680.05	3
P414	S412	S414	46	36	SS	YES	WM QUAL	N/A	0.47%	673.35	673.13	94
P415	S414	S502	94	36	SS			2	0.47%	673.13	672.69	190
P501	S501	S502	20	12	SS		WM QUAL	N/A	1.00%	679.56	679.37	6
P502	S503	S502	11	12	SS			1	1.00%	679.34	679.24	4
P503	S502	S506	131	36	SS			2	0.50%	672.69	672.04	254
P504	S504	S506	31	12	SS		WM QUAL	N/A	1.00%	678.56	678.25	9
P505	*NOT USED*											
P506	*NOT USED*											
P507	S507	S506	24	12	SS			1	1.00%	678.37	678.13	7
P508	EX MH	S509	107	48	SS			2	0.23%	673.40	673.15	159
P509	S508	S509	19	12	SS		WM QUAL	N/A	1.00%	677.73	677.54	6
P510	S510	S509	11	12	SS			1	1.00%	677.51	677.40	3
P511	S509	S512	105	48	SS			2	0.22%	673.15	672.92	147
P512	S511	S512	19	12	SS		WM QUAL	N/A	1.00%	677.00	676.81	6
P513	S513	S512	12	12	SS			1	1.00%	676.86	676.74	4
P601	S601	S310	216	24	SS			2	0.17%	679.96	679.59	331
P701	S701	S407	197	24	SS			2	0.19%	675.90	675.52	276
P801	S801	S414	182	24	SS			2	0.26%	674.61	674.13	252

FILE NAME = N:\BuffaloGrove\200385\Civil\VBG-sht-Cl.DRN-PipeSCHEDULE.dgn

CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

CLIENT:

Village of Buffalo Grove
51 RAUPP BOULEVARD
BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

NO.	DATE	NATURE OF REVISION	CHKD.

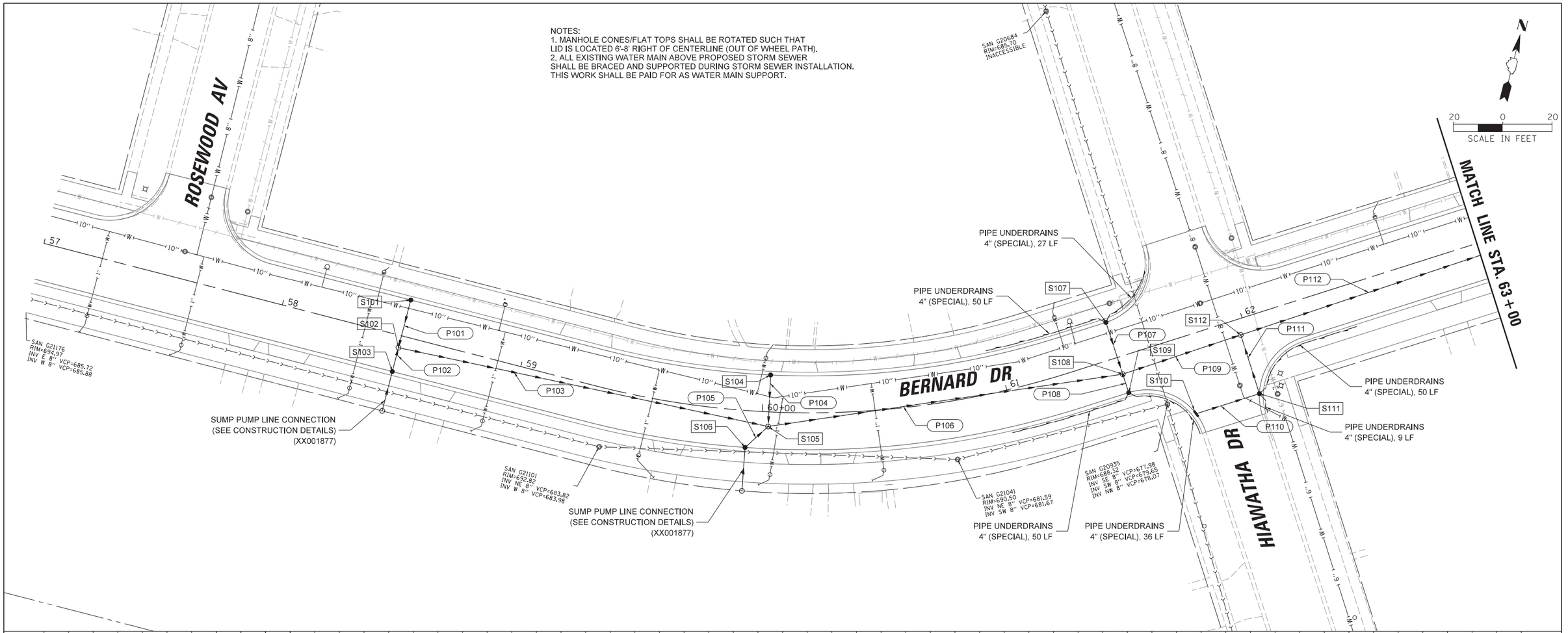
DSGN. EMB
DWN. EMB
CHKD. LMF
USER NAME = jstrick
PLOT DATE = 11/1/2023

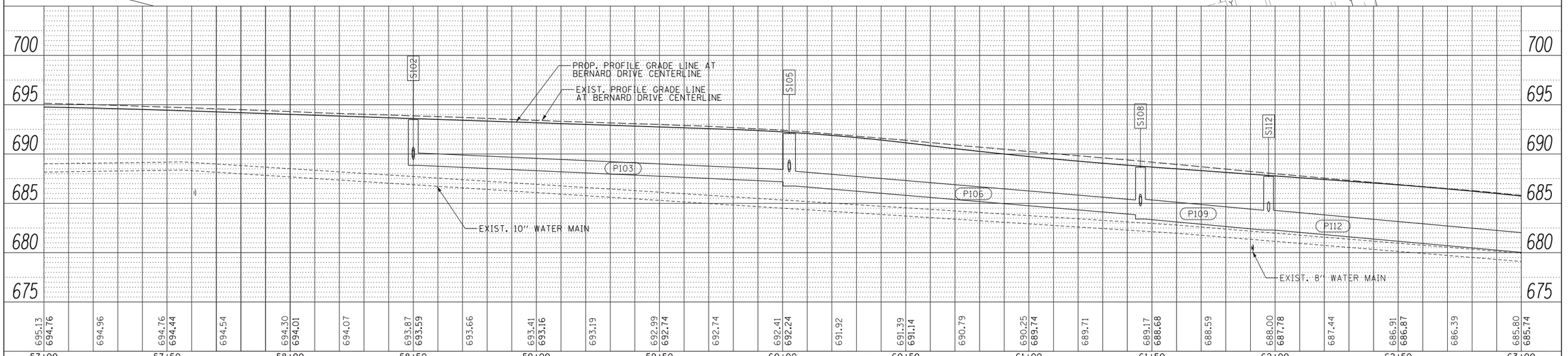
TITLE: **BERNARD DRIVE DRAINAGE SCHEDULE**

SCALE: 1:1 | SHEET 2 OF 2 SHEETS | STA. TO STA.

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 23 OF 97

NOTES:
1. MANHOLE CONES/FLAT TOPS SHALL BE ROTATED SUCH THAT LID IS LOCATED 6'-8' RIGHT OF CENTERLINE (OUT OF WHEEL PATH).
2. ALL EXISTING WATER MAIN ABOVE PROPOSED STORM SEWER SHALL BE BRACED AND SUPPORTED DURING STORM SEWER INSTALLATION. THIS WORK SHALL BE PAID FOR AS WATER MAIN SUPPORT.





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9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

CLIENT:

Village of Buffalo Grove
51 RAUPP BOULEVARD
BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

NO.	DATE	NATURE OF REVISION	CHKD.

DSGN.	EMB
DWN.	EMB
CHKD.	LMF
USER NAME	= jstrick
PLOT DATE	= 11/1/2023

TITLE:

BERNARD DRIVE
DRAINAGE PLAN AND PROFILE

SCALE: 1:20 | SHEET 2 OF 8 SHEETS | STA. 57+00 TO STA. 63+00

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 24 OF 97

NOTES:
1. MANHOLE CONES/FLAT TOPS SHALL BE ROTATED SUCH THAT LID IS LOCATED 6'-8' RIGHT OF CENTERLINE (OUT OF WHEEL PATH).
2. ALL EXISTING WATER MAIN ABOVE PROPOSED STORM SEWER SHALL BE BRACED AND SUPPORTED DURING STORM SEWER INSTALLATION. THIS WORK SHALL BE PAID FOR AS WATER MAIN SUPPORT.

MELINDA LN

RAUPP BLVD

BERNARD DR

MATCH LINE STA. 63+00

MATCH LINE STA. 69+00

PIPE UNDERDRAINS 4" (SPECIAL), 6 LF

CB G20520
RIM=682.44
INV NE 18" RCP=674.60
INV ESE 6" VCP=677.35
INV SE 30" RCP=673.77
INV NW 30" RCP=673.69

CB G20388
RIM=682.37
INV E 12" RCP=677.61
INV SW 18" RCP=677.52

PIPE UNDERDRAINS 4" (SPECIAL), 50 LF

PIPE UNDERDRAINS 4" (SPECIAL), 50 LF

PIPE UNDERDRAINS 4" (SPECIAL), 50 LF

PIPE UNDERDRAINS 4" (SPECIAL), 50 LF

CB G20312
RIM=682.20
INV SE 18" RCP=676.45
INV SW 18" RCP=676.04

SAN G20291
RIM=683.72
INV E 8" VCP=674.80
INV SW 8" VCP=674.88

SAN G20327
RIM=683.72
INV NE 8" VCP=674.55
INV SW 8" VCP=674.47

"DOGHOUSE" MANHOLE OVER EXISTING STORM SEWER (PAID FOR AS MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID)

SAN G1068
RIM=686.64
INV N=673.97
INV E=675.55
INV S=674.14
INV W=674.30

SAN G1169
RIM=689.10
INV W=676.76

30" RCP

18" RCP

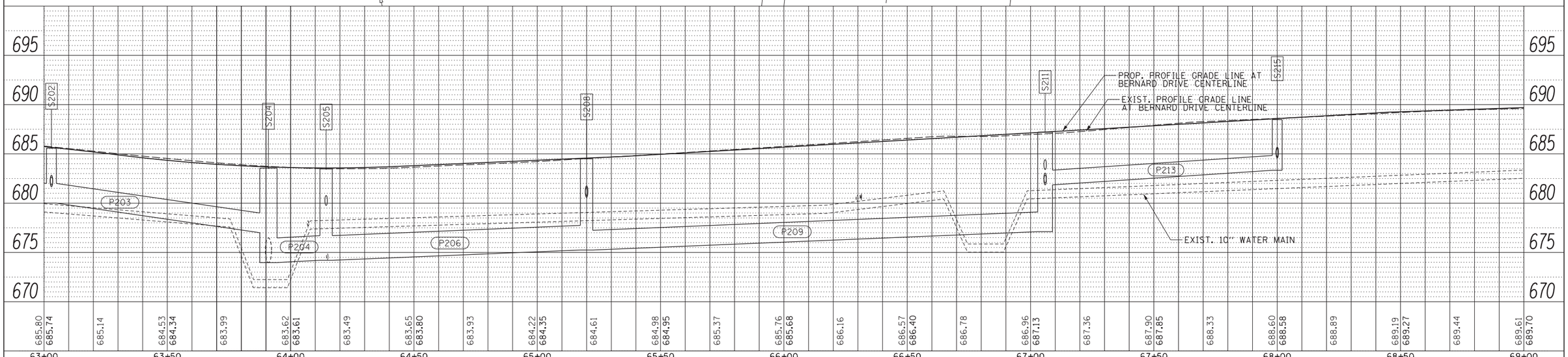
8" CLAY

S201 S202 S203 S204 S205 S206 S207 S208 S209 S210 S211 S212 S213 S214 S215 S216

P201 P202 P203 P204 P205 P206 P207 P208 P209 P210 P211 P212 P213 P214 P215

63 64 65+00 66 67 68 69

20 0 20
SCALE IN FEET



FILE NAME = N:\Buffalo Grove\200385\Civil\VBG-sht-Cl_DPP_03.dgn

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Rosemont, Illinois 60018
(847) 823-0500

CLIENT:

Village of Buffalo Grove
51 RAUPP BOULEVARD
BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

NO.	DATE	NATURE OF REVISION	CHKD.

DSGN.	EMB
DWN.	EMB
CHKD.	LMF
USER NAME	= jsitrick
PLOT DATE	= 11/1/2023

TITLE:
BERNARD DRIVE
DRAINAGE PLAN AND PROFILE

SCALE: 1:20 | SHEET 3 OF 8 SHEETS | STA. 63+00 TO STA. 69+00

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 25 OF 97

NOTES:
1. MANHOLE CONES/FLAT TOPS SHALL BE ROTATED SUCH THAT LID IS LOCATED 6'-8' RIGHT OF CENTERLINE (OUT OF WHEEL PATH).
2. ALL EXISTING WATER MAIN ABOVE PROPOSED STORM SEWER SHALL BE BRACED AND SUPPORTED DURING STORM SEWER INSTALLATION. THIS WORK SHALL BE PAID FOR AS WATER MAIN SUPPORT.

N

20 0 20
SCALE IN FEET

FOREST PL

GLENDALE RD

BERNARD DR

MATCH LINE STA. 69+00

MATCH LINE STA. 75+00

PIPE UNDERDRAINS 4" (SPECIAL), 20 LF

PIPE UNDERDRAINS 4" (SPECIAL), 50 LF

PIPE UNDERDRAINS 4" (SPECIAL), 32 LF

PIPE UNDERDRAINS 4" (SPECIAL), 50 LF

PIPE UNDERDRAINS 4" (SPECIAL), 50 LF

PIPE UNDERDRAINS 4" (SPECIAL), 38 LF

S301 S302 S303 S304 S305 S306 S307 S308 S309 S310 S311 S312 S313 S314 S315 S316

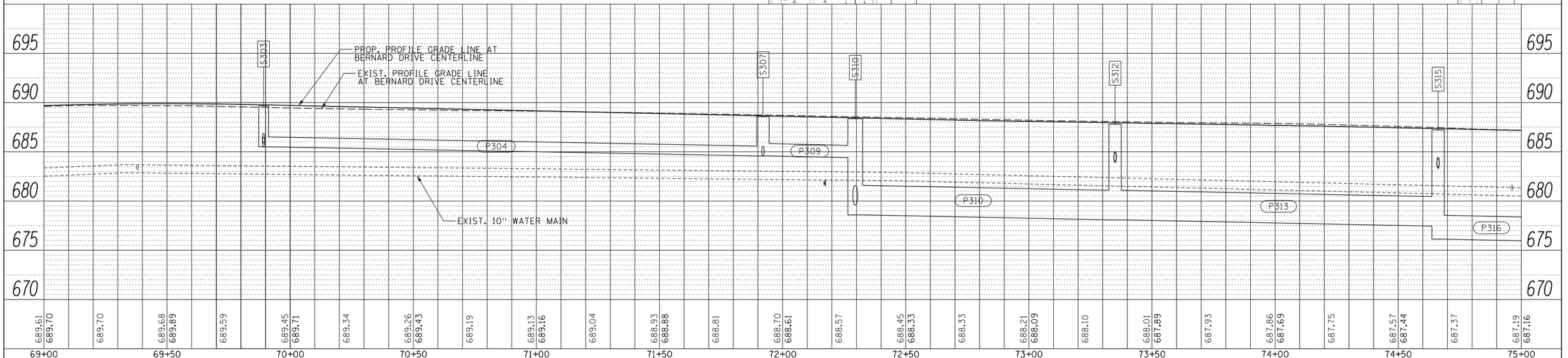
P301 P302 P303 P304 P305 P306 P307 P308 P309 P310 P311 P312 P313 P314 P315 P316 P601

SAN G1545
RIM=689.70
INV N 8" VCP=677.86
INV E 8" VCP=677.61

SAN G184B
RIM=688.15
INV N 8" VCP=677.48
INV E 8" VCP=676.40
INV S 8" VCP=677.65
INV W 8" VCP=676.48

69 70+00 71 72 73 74

SEE SHEET 29 FOR GLENDALE RD PROPOSED STORM SEWER



689.61	689.70	689.70	689.68	689.89	689.59	689.45	689.71	689.34	689.26	689.43	689.19	689.13	689.16	689.04	688.93	688.88	688.81	688.70	688.61	688.57	688.45	688.33	688.33	688.21	688.09	688.10	688.01	687.89	687.93	687.86	687.69	687.75	687.57	687.44	687.37	687.19	687.16
69+00		69+50			70+00			70+50			71+00			71+50			72+00			72+50			73+00			73+50			74+00			74+50			75+00		

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BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

NO.	DATE	NATURE OF REVISION	CHKD.

DSGN.	EMB
DWN.	EMB
CHKD.	LMF
USER NAME	= jsitrick
PLOT DATE	= 11/1/2023

TITLE: **BERNARD DRIVE DRAINAGE PLAN AND PROFILE**

SCALE: 1:20 | SHEET 4 OF 8 SHEETS | STA. 69+00 TO STA. 75+00

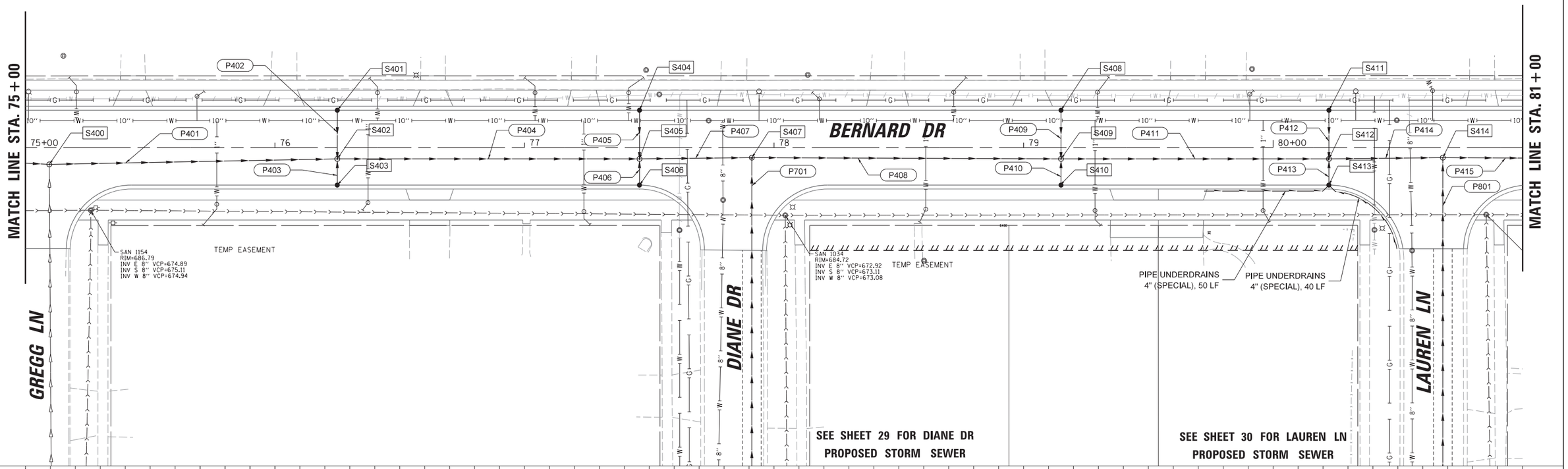
SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 26 OF 97

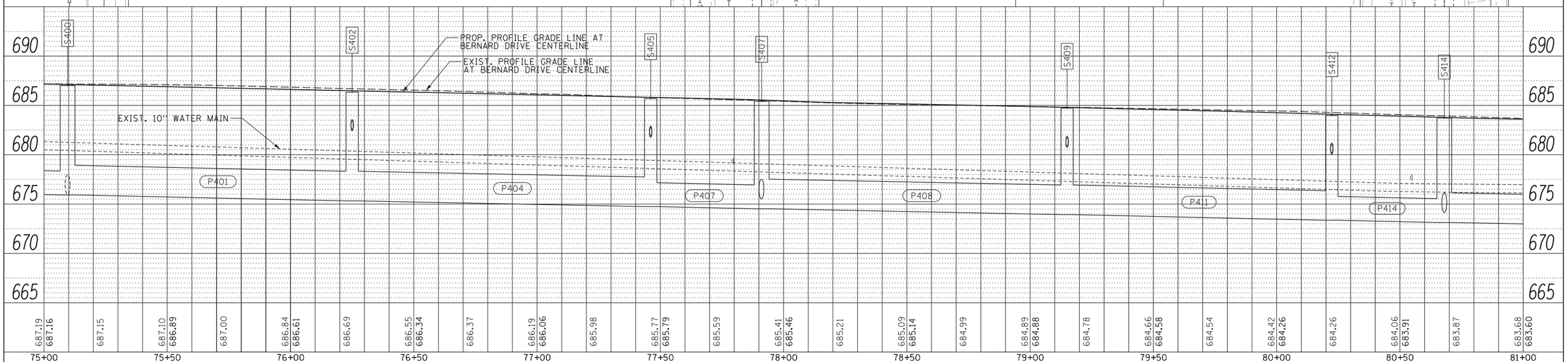
FILE NAME = N:\BuffaloGrove\200385\Civil\VBG-sht-C1_DPP-04.dgn

NOTES:
1. MANHOLE CONES/FLAT TOPS SHALL BE ROTATED SUCH THAT LID IS LOCATED 6'-8' RIGHT OF CENTERLINE (OUT OF WHEEL PATH).
2. ALL EXISTING WATER MAIN ABOVE PROPOSED STORM SEWER SHALL BE BRACED AND SUPPORTED DURING STORM SEWER INSTALLATION. THIS WORK SHALL BE PAID FOR AS WATER MAIN SUPPORT.

N

20 0 20
SCALE IN FEET





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9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

CLIENT:
Village of Buffalo Grove
51 RAUPP BOULEVARD
BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

NO.	DATE	NATURE OF REVISION	CHKD.

DSGN. EMB
DWN. EMB
CHKD. LMF
USER NAME = jsitrick
PLOT DATE = 11/1/2023

TITLE:
BERNARD DRIVE
DRAINAGE PLAN AND PROFILE

SCALE: 1:20 | SHEET 5 OF 8 SHEETS | STA. 75+00 TO STA. 81+00

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 27 OF 97

NOTES:
1. MANHOLE CONES/FLAT TOPS SHALL BE ROTATED SUCH THAT LID IS LOCATED 6'-8' RIGHT OF CENTERLINE (OUT OF WHEEL PATH).
2. ALL EXISTING WATER MAIN ABOVE PROPOSED STORM SEWER SHALL BE BRACED AND SUPPORTED DURING STORM SEWER INSTALLATION. THIS WORK SHALL BE PAID FOR AS WATER MAIN SUPPORT.

FILE NAME = N:\BuffaloGrove\200385\Civil\VBG-sht-CI_DPP_06.dgn

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BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

NO.	DATE	NATURE OF REVISION	CHKD.

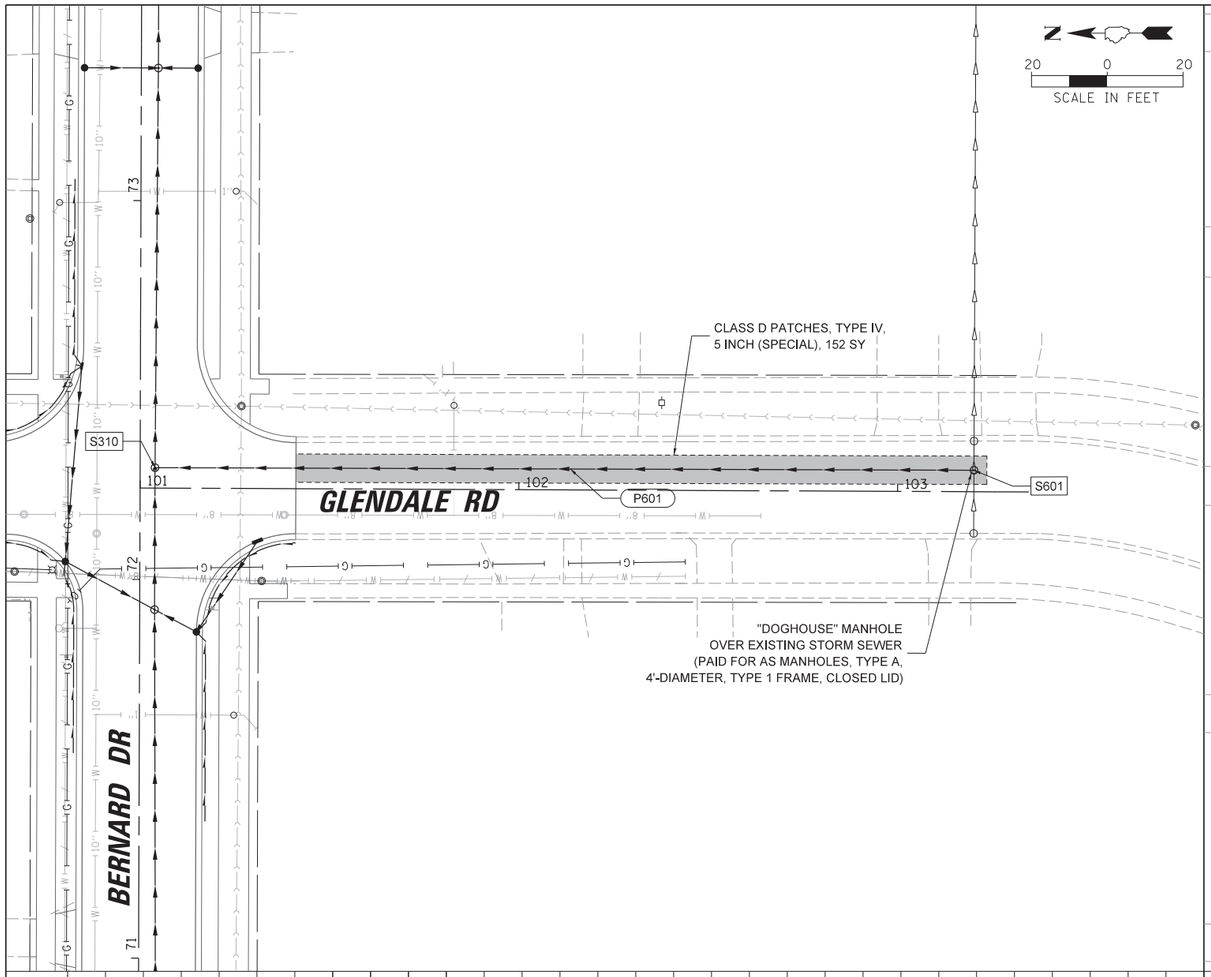
DSGN.	EMB
DWN.	EMB
CHKD.	LMF
USER NAME	= jsitrick
PLOT DATE	= 11/1/2023

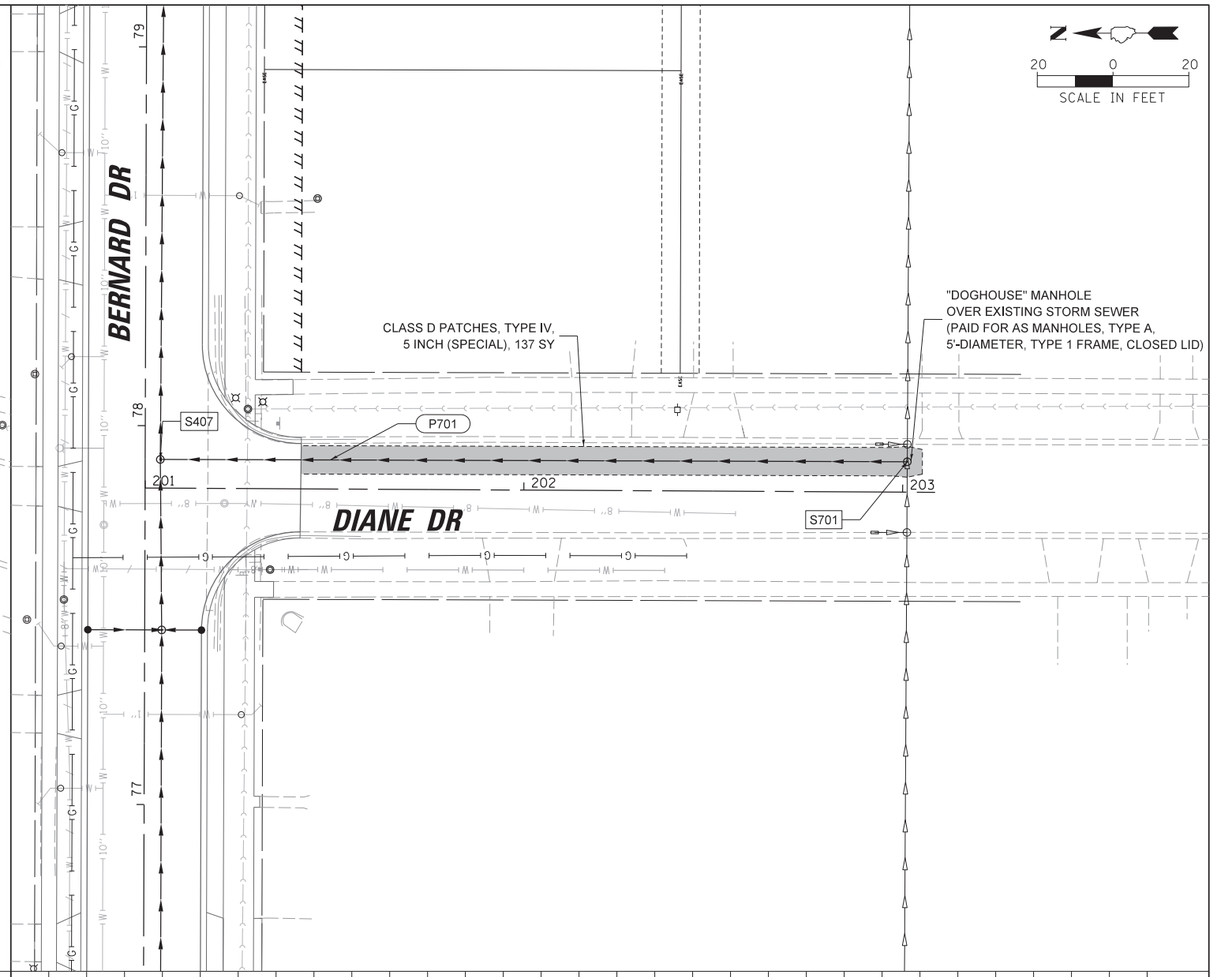
TITLE:

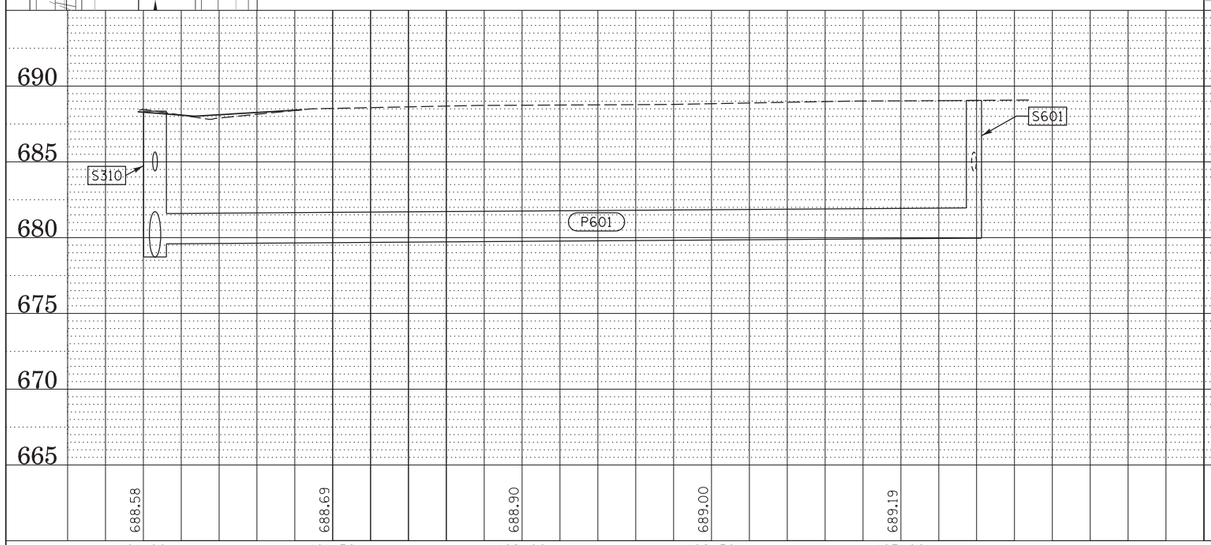
BERNARD DRIVE
DRAINAGE PLAN AND PROFILE

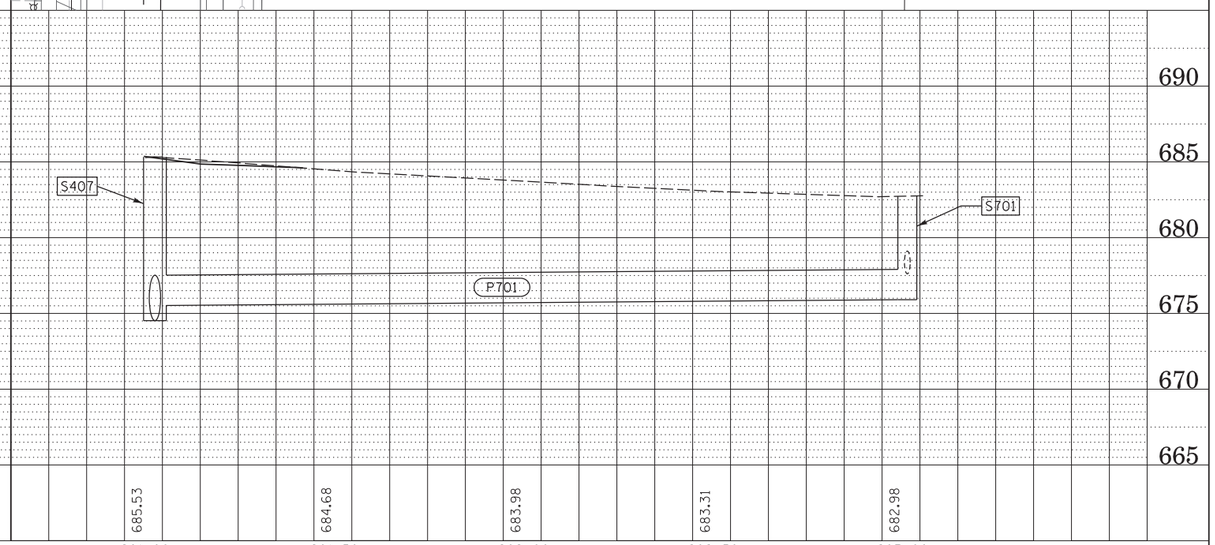
SCALE: 1:20 | SHEET 6 OF 8 SHEETS | STA. 81+00 TO STA. END

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 28 OF 97









FILE NAME = N:\BuffaloGrove\200385\Civil\VBG-ant-Cl_SideDPP_01.dgn

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CLIENT:

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BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

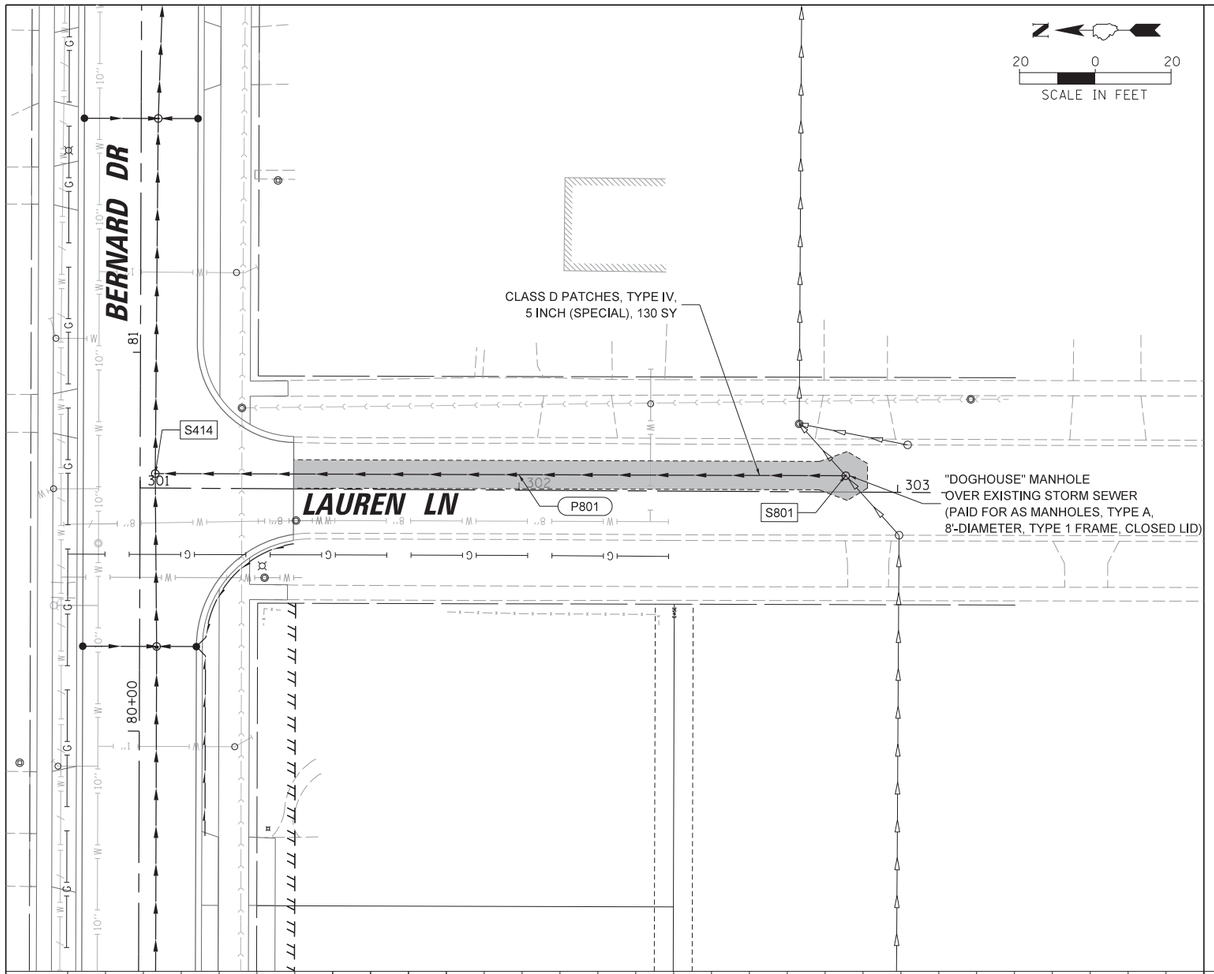
NO.	DATE	NATURE OF REVISION	CHKD.

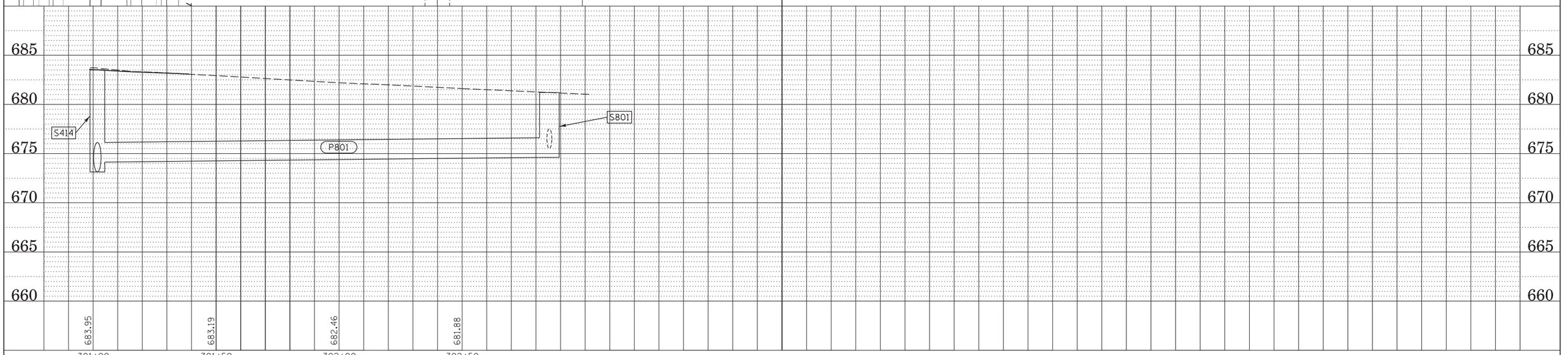
DSGN.	VMR
DWN.	MAK
CHKD.	LMF
USER NAME = jstrick	
PLOT DATE = 11/1/2023	

TITLE: **GLENDALE RD & DIANE DRIVE DRAINAGE PLAN AND PROFILE**

SCALE: 1:20 | SHEET 7 OF 8 SHEETS | STA. | TO STA.

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 29 OF 97





FILE NAME = N:\Buffalo Grove\200385\Civil\VBG-ant-Cl.SideDPP.02.dgn

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BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

NO.	DATE	NATURE OF REVISION	CHKD.

DSGN.	EMB	
DWN.	EMB	
CHKD.	LMF	
USER NAME = jstrick		
PLOT DATE = 11/1/2023		

TITLE: **LAUREN LANE**
DRAINAGE PLAN AND PROFILE

SCALE: 1:20 | SHEET 8 OF 8 SHEETS | STA. | TO STA.

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 30 OF 97

PROPOSED LEGEND

1. THERMOPLASTIC PAVEMENT MARKING - LINE 6" (SOLID WHITE, 78000400)
2. THERMOPLASTIC PAVEMENT MARKING - LINE 12" CROSSWALK @ 90°, 3' C-C (WHITE, 78000600)
3. THERMOPLASTIC PAVEMENT MARKING - LINE 24" (SOLID WHITE, 78000650)
4. THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID WHITE, 78000200)

N

20 0 20
SCALE IN FEET

524 BERNARD
394 LINCOLN
LINCOLN TERRACE
391 LINCOLN
468 BERNARD
394 ROSEWOOD

MATCH LINE STA. 57+00

51 52 53 BERNARD DR 54 55+00 56

ROADWAY RECONSTRUCTION PROJECT LIMITS STA. 55+25.00

545 BERNARD
535 BERNARD
523 BERNARD
513 BERNARD
495 BERNARD
489 BERNARD
483 BERNARD
471 BERNARD
463 BERNARD

NOTES:
1. THE CONTRACTOR SHALL PROVIDE VILLAGE WITH A MINIMUM OF 48 HRS NOTICE PRIOR TO REMOVING/RELOCATING SIGNING. VILLAGE WILL PROVIDE AND ERECT ALL PROPOSED SIGNING. CONTRACTOR SHALL COORDINATE PLACEMENT OF FINAL PAVEMENT MARKINGS/LANDSCAPING IN REGARDS TO ERECTION OF PROPOSED SIGNING
2. ALL PAVEMENT MARKINGS SHALL BE RECESSED

391 ROSEWOOD
ROSEWOOD AV
422 BERNARD
410 BERNARD
400 BERNARD
HIAWATHA DR
374 BERNARD

MATCH LINE STA. 57+00
MATCH LINE STA. 63+00

57 58 59 60+00 BERNARD DR 61 62

453 BERNARD
443 BERNARD
435 BERNARD
423 BERNARD
415 BERNARD
405 BERNARD
397 BERNARD
404 HIAWATHA
367 BERNARD

1 2 3

N

20 0 20
SCALE IN FEET

FILE NAME = N:\BuffaloGrove\200385\Civil\VBG-ant-CL_PMKG_01.dgn

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Rosemont, Illinois 60018
(847) 823-0500

CLIENT: Village of Buffalo Grove
51 RAUPP BOULEVARD
BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

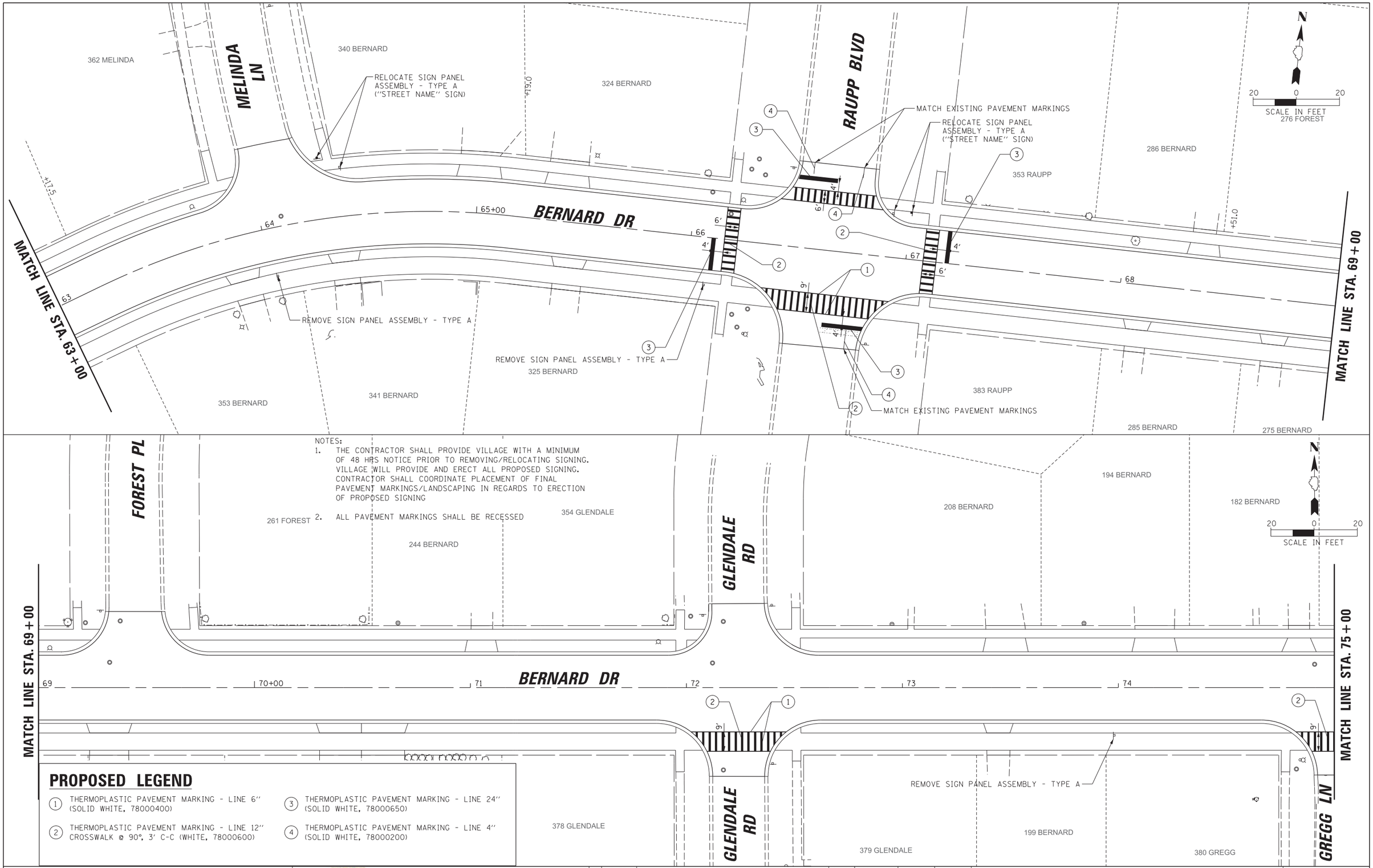
NO.	DATE	NATURE OF REVISION	CHKD.

DSGN. VMR
DWN. MAK
CHKD. LMF
USER NAME = jsitrick
PLOT DATE = 11/1/2023

TITLE: **BERNARD DRIVE**
PAVEMENT MARKING AND SIGNING PLAN

SCALE: 1:20 | SHEET 1 OF 3 SHEETS | STA. 51+00.00 TO STA. 63+00.00

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 31 OF 97



NOTES:

1. THE CONTRACTOR SHALL PROVIDE VILLAGE WITH A MINIMUM OF 48 HRS NOTICE PRIOR TO REMOVING/RELOCATING SIGNING. VILLAGE WILL PROVIDE AND ERECT ALL PROPOSED SIGNING. CONTRACTOR SHALL COORDINATE PLACEMENT OF FINAL PAVEMENT MARKINGS/LANDSCAPING IN REGARDS TO ERECTION OF PROPOSED SIGNING
2. ALL PAVEMENT MARKINGS SHALL BE RECESSED

PROPOSED LEGEND

1. THERMOPLASTIC PAVEMENT MARKING - LINE 6" (SOLID WHITE, 78000400)
2. THERMOPLASTIC PAVEMENT MARKING - LINE 12" CROSSWALK @ 90°, 3' C-C (WHITE, 78000600)
3. THERMOPLASTIC PAVEMENT MARKING - LINE 24" (SOLID WHITE, 78000650)
4. THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID WHITE, 78000200)

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Rosemont, Illinois 60018
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CLIENT: Village of Buffalo Grove

Village of Buffalo Grove
51 RAUPP BOULEVARD
BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

NO.	DATE	NATURE OF REVISION

CHKD.	
DSGN.	VMR
DWN.	MAK
CHKD.	LMF
USER NAME = jstrick	
PLOT DATE = 11/1/2023	

TITLE: **BERNARD DRIVE**
PAVEMENT MARKING AND SIGNING PLAN

SCALE: 1:20 | SHEET 2 OF 3 SHEETS | STA. 63+00.00 TO STA. 75+00.00

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 32 OF 97

FILE NAME = N:\BuffaloGrove\200385\Civil\VBG-sht-CL_PMKG_02.dgn

PROPOSED LEGEND

1. THERMOPLASTIC PAVEMENT MARKING - LINE 6" (SOLID WHITE, 78000400)
2. THERMOPLASTIC PAVEMENT MARKING - LINE 12" CROSSWALK @ 90°, 3' C-C (WHITE, 78000600)
3. THERMOPLASTIC PAVEMENT MARKING - LINE 24" (SOLID WHITE, 78000650)
4. THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID WHITE, 78000200)

N

20 0 20
SCALE IN FEET

MATCH LINE STA. 75+00

MATCH LINE STA. 81+00

BERNARD DR

GREGG LN

DIANE DR

LAUREN LN

NAVAJO TRAIL

BUFFALO GROVE RD

116 BERNARD
106 BERNARD
96 BERNARD
86 BERNARD
172 BERNARD
164 BERNARD
154 BERNARD
144 BERNARD
134 BERNARD
124 BERNARD
+57.0
75+00
76
77
78
79
80+00
9'
RELOCATE SIGN PANEL ASSEMBLY - TYPE A ("STREET NAME" SIGN)
377 GREGG
153 BERNARD
143 BERNARD
121 BERNARD
109 BERNARD
99 BERNARD

NOTES:
1. THE CONTRACTOR SHALL PROVIDE VILLAGE WITH A MINIMUM OF 48 HRS NOTICE PRIOR TO REMOVING/RELOCATING SIGNING. VILLAGE WILL PROVIDE AND ERECT ALL PROPOSED SIGNING. CONTRACTOR SHALL COORDINATE PLACEMENT OF FINAL PAVEMENT MARKINGS/LANDSCAPING IN REGARDS TO ERECTION OF PROPOSED SIGNING
2. ALL PAVEMENT MARKINGS SHALL BE RECESSED

76 BERNARD
64 BERNARD
40 BERNARD
28 BERNARD
344 BUFFALO GROVE
MAINTAIN EXISTING SIGN PANEL ASSEMBLY, TYPE A
SPEED LIMIT 25
NO PARKING ON VILLAGE STREETS 2 AM TO 6 AM DAILY
NO PARKING ON VILLAGE STREETS AFTER 2" SNOWFALL
10 TON WEIGHT RESTRICTIONS
$500 FINE
(SPRINKLING RESTRICTIONS)
END IMPROVEMENTS STA. 85+39.62
81
82
83
84
85+00
86
4'
32.0
375 NAVAJO
372 BUFFALO GROVE
25 BERNARD
73 BERNARD
61 BERNARD

FILE NAME = N:\BuffaloGrove\280385\Civil\VBG-sht-CL_PMKG_03.dgn

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BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

NO.	DATE	NATURE OF REVISION	CHKD.

DSGN. VMR
DWN. MAK
CHKD. LMF
USER NAME = jstrick
PLOT DATE = 11/1/2023

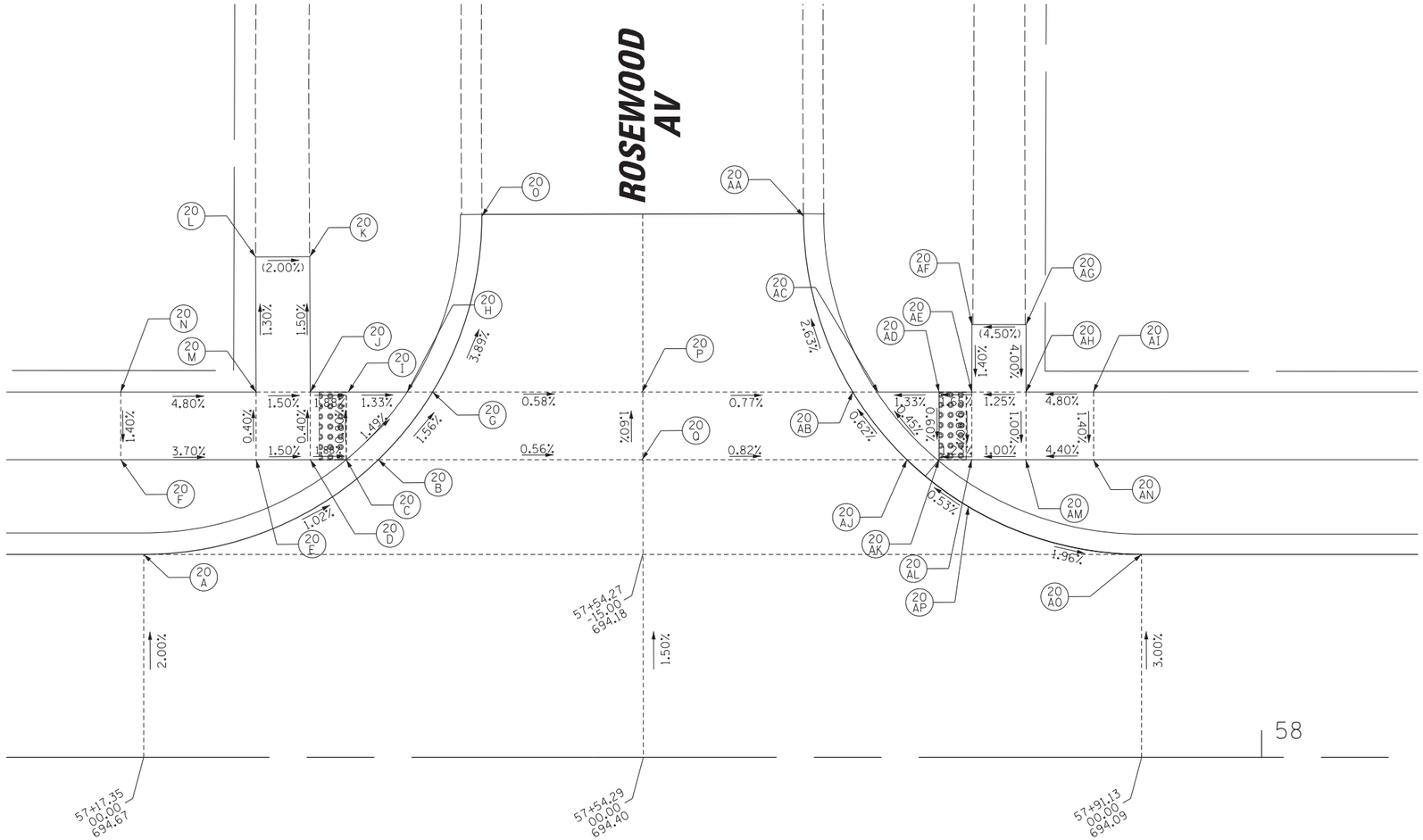
TITLE: **BERNARD DRIVE**
PAVEMENT MARKING AND SIGNING PLAN

SCALE: 1:20 | SHEET 3 OF 3 SHEETS | STA. 75+00.00 TO STA. 85+39.62

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 33 OF 97

POINT	STATION	OFFSET	ELEV.
20-A	57+17.35	15.00' LT	694.37
20-B	57+34.69	22.00' LT	694.18
20-C	57+32.32	22.00' LT	694.19
20-D	57+29.66	22.00' LT	694.24
20-E	57+25.66	22.00' LT	694.30
20-F	57+15.66	22.00' LT	694.67
20-G	57+38.70	27.00' LT	694.08
20-H	57+36.82	27.00' LT	694.09
20-I	57+32.32	27.00' LT	694.15
20-J	57+29.66	27.00' LT	694.20
20-K	57+29.62	37.01' LT	(694.05)
20-L	57+25.62	37.00' LT	(694.13)
20-M	57+25.66	27.00' LT	694.26
20-N	57+15.66	27.00' LT	694.74
20-O	57+42.35	40.13' LT	(693.55)
20-P	57+54.26	27.00' LT	693.99
20-Q	57+54.27	22.00' LT	694.07

(XXX.XX) = EXISTING ELEVATION



POINT	STATION	OFFSET	ELEV.
20-AA	57+66.13	40.18' LT	(693.47)
20-AB	57+69.77	27.00' LT	693.83
20-AC	57+71.65	27.00' LT	693.84
20-AD	57+76.15	27.00' LT	693.90
20-AE	57+78.58	27.00' LT	693.94
20-AF	57+78.58	32.00' LT	(694.01)
20-AG	57+82.58	32.00' LT	(694.19)
20-AH	57+82.58	27.00' LT	693.99
20-AI	57+87.58	27.00' LT	694.23
20-AJ	57+73.78	22.00' LT	693.87
20-AK	57+76.15	22.00' LT	693.87
20-AL	57+78.58	22.00' LT	693.90
20-AM	57+82.58	22.00' LT	693.94
20-AN	57+87.58	22.00' LT	694.16
20-AO	57+91.13	15.00' LT	693.64
20-AP	57+78.32	18.53' LT	693.90

(XXX.XX) = EXISTING ELEVATION

N

1

5 0 5

SCALE IN FEET

FILE NAME = N:\Buffalo Grove\200385\Civil\VBG-sht-Cl_ADA_1.dgn

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CLIENT:

Village of Buffalo Grove
51 RAUPP BOULEVARD
BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

NO.	DATE	NATURE OF REVISION	CHKD.

DSGN.	VMR
DWN.	MAK
CHKD.	LMF
USER NAME	= jsitrick
PLOT DATE	= 11/1/2023

TITLE: **BERNARD DRIVE ADA RAMP DETAILS**

SCALE: 1:5 | SHEET 1 OF 9 SHEETS | STA. TO STA.

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 34 OF 97

POINT	STATION	OFFSET	ELEV.
21-A	61+45.73	15.00' LT	688.44
21-B	61+54.86	16.36' LT	688.31
21-C	61+54.86	18.04' LT	688.29
21-D	61+54.87	22.00' LT	688.29
21-E	61+44.87	22.01' LT	688.46
21-F	61+44.87	27.01' LT	688.53
21-G	61+54.87	27.00' LT	688.25
21-H	61+54.87	32.00' LT	(688.06)
21-I	61+58.87	32.00' LT	(687.96)
21-J	61+58.87	27.00' LT	688.19
21-K	61+59.83	18.70' LT	688.23
21-L	61+64.08	22.00' LT	688.15
21-M	61+66.21	27.00' LT	688.08
21-N	61+68.09	27.00' LT	688.05
21-O	61+71.73	40.05' LT	(687.12)
21-P	61+83.81	27.00' LT	687.59
21-Q	61+83.81	22.00' LT	687.67
21-R	61+54.84	0.00' RT	688.59
21-S	61+59.83	0.00' RT	688.50

(XXX.XX) = EXISTING ELEVATION

POINT	STATION	OFFSET	ELEV.
21-AA	62+20.57	15.00' LT	687.11
21-AB	62+12.48	16.35' LT	687.24
21-AC	62+12.46	18.03' LT	687.24
21-AD	62+12.44	22.00' LT	687.30
21-AE	62+07.45	18.72' LT	687.31
21-AF	62+07.43	20.60' LT	687.32
21-AG	62+03.22	22.00' LT	687.34
21-AH	62+05.48	22.00' LT	687.34
21-AI	61+99.22	27.00' LT	687.31
21-AJ	62+01.09	27.00' LT	687.31
21-AK	61+95.57	40.13' LT	(687.00)
21-AL	62+08.45	27.00' LT	687.35
21-AM	62+12.45	27.00' LT	687.37
21-AN	62+08.53	37.00' LT	(687.29)
21-AO	62+12.53	36.97' LT	(687.51)
21-AP	62+07.67	0.00' RT	687.64
21-AQ	62+12.67	0.00' RT	687.55

(XXX.XX) = EXISTING ELEVATION

HIAWATHA DR

BERNARD DR

61

62

POINT	STATION	OFFSET	ELEV.
22-AA	61+46.94	15.00' RT	688.51
22-AB	61+46.94	16.00' RT	688.53
22-AC	61+46.94	16.58' RT	688.57
22-AD	61+54.83	16.28' RT	688.38
22-AE	61+54.83	17.33' RT	688.40
22-AF	61+54.83	17.95' RT	688.44
22-AG	61+54.79	21.00' RT	688.47
22-AH	61+59.83	18.57' RT	688.33
22-AI	61+59.83	19.75' RT	688.34
22-AJ	61+59.83	20.44' RT	688.38
22-AK	61+63.19	21.00' RT	688.30
22-AL	61+61.61	21.00' RT	(688.33)
22-AM	61+60.64	21.00' RT	(688.37)
22-AN	61+69.39	29.00' RT	688.31
22-AO	61+68.27	29.00' RT	688.33
22-AP	61+67.62	29.00' RT	688.37
22-AQ	61+70.43	31.46' RT	688.34
22-AR	61+69.50	31.80' RT	688.36
22-AS	61+68.95	32.00' RT	688.40
22-AT	61+71.94	39.79' RT	688.49
22-AU	61+58.99	29.00' RT	688.50
22-AV	61+54.99	29.00' RT	688.56
22-AW	61+59.10	38.95' RT	688.79
22-AX	61+55.10	39.00' RT	688.96
22-AY	61+46.78	21.00' RT	688.82
22-AZ	61+46.78	29.00' RT	688.94

(XXX.XX) = EXISTING ELEVATION

REVERSE PITCHED GUTTER (2%) FROM POINT AB TO POINT AI

HIAWATHA DR

POINT	STATION	OFFSET	ELEV.
22-A	61+46.94	15.00' RT	688.51
22-B	61+54.85	16.28' RT	688.38
22-C	61+54.83	17.95' RT	688.40
22-D	61+54.79	21.00' RT	688.44
22-E	61+59.82	18.57' RT	688.33
22-F	61+59.79	20.42' RT	688.34
22-G	61+63.19	21.00' RT	688.30
22-H	61+60.64	21.00' RT	688.33
22-I	61+69.39	29.00' RT	(688.31)
22-J	61+67.62	29.00' RT	688.33
22-K	61+71.94	39.79' RT	688.49
22-L	61+58.99	29.00' RT	688.48
22-M	61+54.99	29.00' RT	688.55
22-N	61+59.10	38.95' RT	(688.79)
22-O	61+55.10	39.00' RT	(688.96)
22-P	61+46.78	21.00' RT	688.82
22-Q	61+46.78	29.00' RT	688.94

(XXX.XX) = EXISTING ELEVATION

N

5 0 5

SCALE IN FEET

FILE NAME = N:\Buffalo Grove\200385\Civil\VBG-ant-C1_ADA_2.dgn

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9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

CLIENT: Village of Buffalo Grove
51 RAUPP BOULEVARD
BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

NO.	DATE	NATURE OF REVISION	CHKD.

DSGN.	VMR
DWN.	MAK
CHKD.	LMF
USER NAME	= jstrick
PLOT DATE	= 11/1/2023

TITLE: BERNARD DRIVE
ADA RAMP DETAILS

SCALE: 1:5 | SHEET 2 OF 9 SHEETS | STA. TO STA.

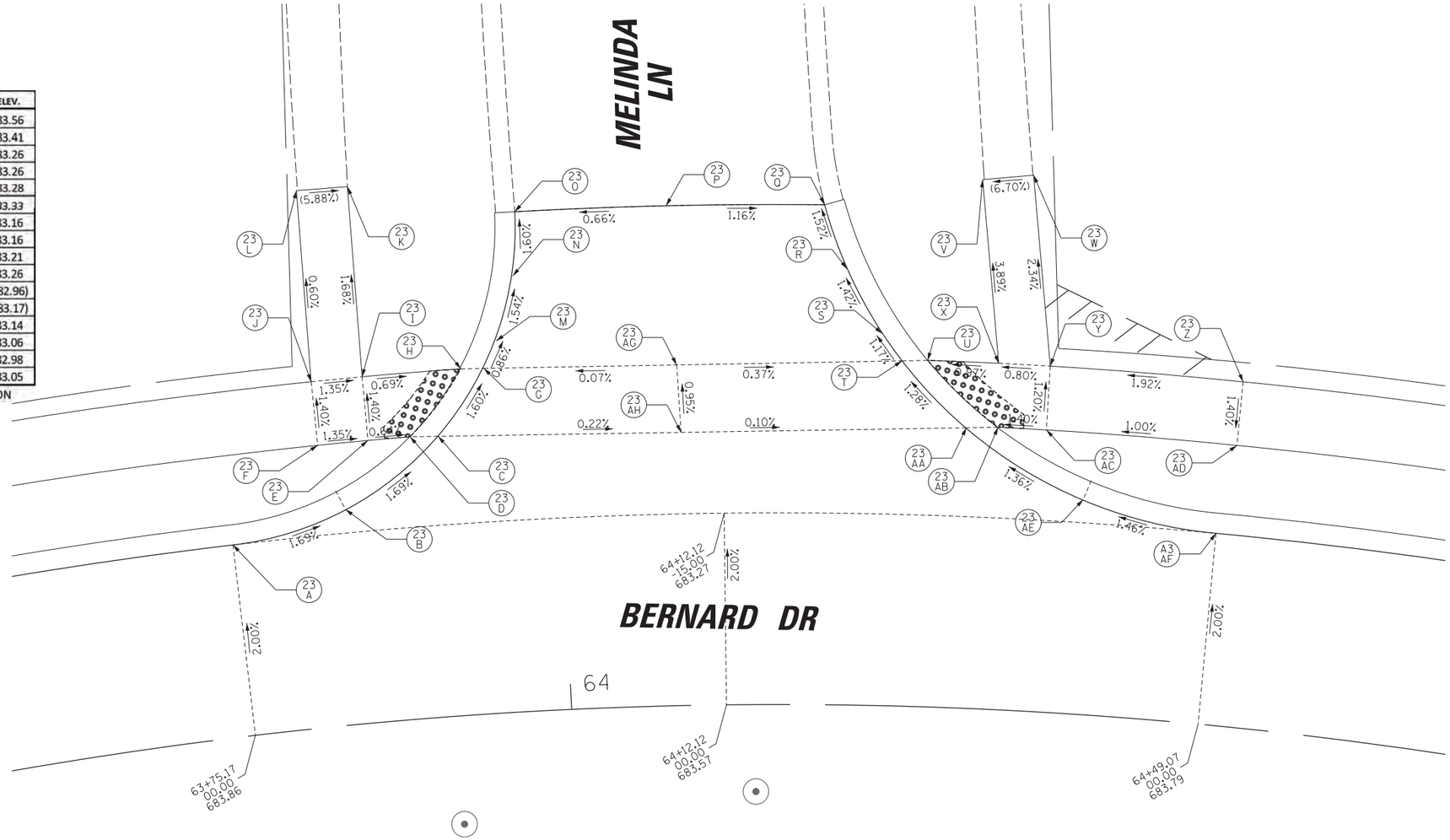
SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 35 OF 97

POINT	STATION	OFFSET	ELEV.
23-A	63+75.17	15.00' LT	683.56
23-B	63+83.83	16.83' LT	683.41
23-C	63+91.11	21.95' LT	683.26
23-D	63+89.05	22.08' LT	683.26
23-E	63+85.94	22.07' LT	683.28
23-F	63+82.23	22.05' LT	683.33
23-G	63+94.78	27.01' LT	683.16
23-H	63+93.11	27.10' LT	683.16
23-I	63+85.91	27.07' LT	683.21
23-J	63+82.20	27.05' LT	683.26
23-K	63+86.04	41.99' LT	(682.96)
23-L	63+82.47	42.04' LT	(683.17)
23-M	63+95.79	29.11' LT	683.14
23-N	63+97.25	34.11' LT	683.06
23-O	63+97.63	39.11' LT	682.98
23-P	64+08.29	39.13' LT	683.05

(XXX.XX) = EXISTING ELEVATION

POINT	STATION	OFFSET	ELEV.
23-Q	64+19.45	39.13' LT	682.92
23-R	64+21.08	34.12' LT	683.00
23-S	64+23.70	29.12' LT	683.08
23-T	64+25.17	27.02' LT	683.11
23-U	64+27.04	27.11' LT	683.11
23-V	64+30.49	41.40' LT	(682.60)
23-W	64+34.03	41.93' LT	(682.84)
23-X	64+32.20	27.09' LT	683.16
23-Y	64+35.95	27.08' LT	683.19
23-Z	64+50.00	27.00' LT	683.46
23-AA	64+30.04	21.95' LT	683.20
23-AB	64+32.37	22.09' LT	683.20
23-AC	64+35.93	22.08' LT	683.25
23-AD	64+50.00	22.00' LT	683.39
23-AE	64+38.96	16.81' LT	683.34
23-AF	64+49.07	15.00' LT	683.49
23-AG	64+08.79	26.66' LT	683.17
23-AH	64+09.02	21.38' LT	683.22

(XXX.XX) = EXISTING ELEVATION



N

5 0 5

SCALE IN FEET

FILE NAME = N:\BuffaloGrove\200385\Civil\VBG-sht-CI_ADA_3.dgn

CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

CLIENT: **Village of Buffalo Grove**
51 RAUPP BOULEVARD
BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

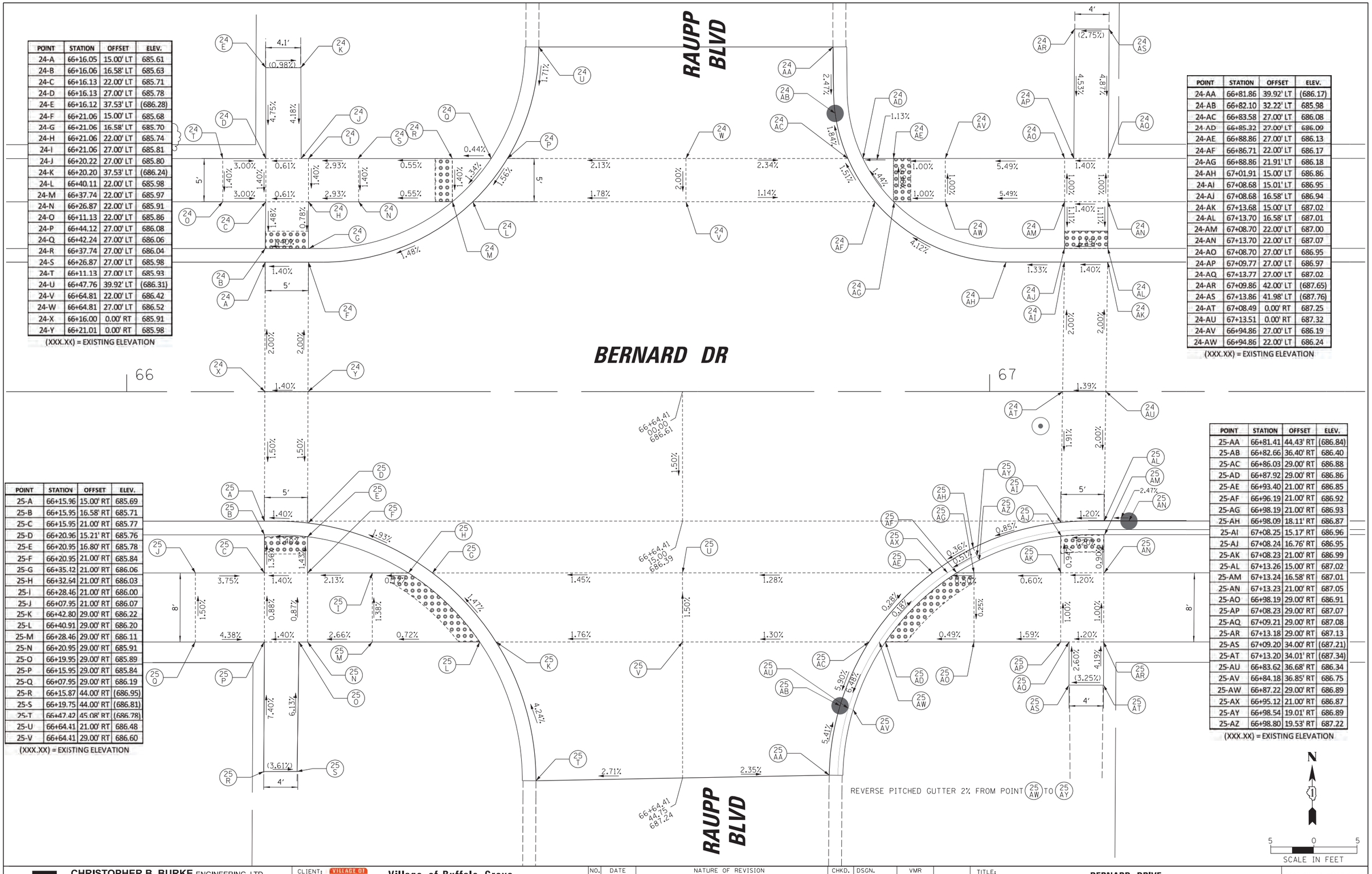
NO.	DATE	NATURE OF REVISION	CHKD.

DSGN.	VMR
DWN.	MAK
CHKD.	LMF
USER NAME	= jstrick
PLOT DATE	= 11/1/2023

TITLE: **BERNARD DRIVE**
ADA RAMP DETAILS

SCALE: 1:5 | SHEET 3 OF 9 SHEETS | STA. | TO STA.

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 36 OF 97



POINT	STATION	OFFSET	ELEV.
24-A	66+16.05	15.00' LT	685.61
24-B	66+16.06	16.58' LT	685.63
24-C	66+16.13	22.00' LT	685.71
24-D	66+16.13	27.00' LT	685.78
24-E	66+16.12	37.53' LT	(686.28)
24-F	66+21.06	15.00' LT	685.68
24-G	66+21.06	16.58' LT	685.70
24-H	66+21.06	22.00' LT	685.74
24-I	66+21.06	27.00' LT	685.81
24-J	66+20.22	27.00' LT	685.80
24-K	66+20.20	37.53' LT	(686.24)
24-L	66+40.11	22.00' LT	685.98
24-M	66+37.74	22.00' LT	685.97
24-N	66+26.87	22.00' LT	685.91
24-O	66+11.13	22.00' LT	685.86
24-P	66+44.12	27.00' LT	686.08
24-Q	66+42.24	27.00' LT	686.06
24-R	66+37.74	27.00' LT	686.04
24-S	66+26.87	27.00' LT	685.98
24-T	66+11.13	27.00' LT	685.93
24-U	66+47.76	39.92' LT	(686.31)
24-V	66+64.81	22.00' LT	686.42
24-W	66+64.81	27.00' LT	686.52
24-X	66+16.00	0.00' RT	685.91
24-Y	66+21.01	0.00' RT	685.98

(XXX.X%) = EXISTING ELEVATION

POINT	STATION	OFFSET	ELEV.
24-AA	66+81.86	39.92' LT	(686.17)
24-AB	66+82.10	32.22' LT	685.98
24-AC	66+83.58	27.00' LT	686.08
24-AD	66+85.32	27.00' LT	686.09
24-AE	66+88.86	27.00' LT	686.13
24-AF	66+86.71	22.00' LT	686.17
24-AG	66+88.86	21.91' LT	686.18
24-AH	67+01.91	15.00' LT	686.86
24-AI	67+08.68	15.01' LT	686.95
24-AJ	67+08.68	16.58' LT	686.94
24-AK	67+13.68	15.00' LT	687.02
24-AL	67+13.70	16.58' LT	687.01
24-AM	67+08.70	22.00' LT	687.00
24-AN	67+13.70	22.00' LT	687.07
24-AO	67+08.70	27.00' LT	686.95
24-AP	67+09.77	27.00' LT	686.97
24-AQ	67+13.77	27.00' LT	687.02
24-AR	67+09.86	42.00' LT	(687.65)
24-AS	67+13.86	41.98' LT	(687.76)
24-AT	67+08.49	0.00' RT	687.25
24-AU	67+13.51	0.00' RT	687.32
24-AV	66+94.86	27.00' LT	686.19
24-AW	66+94.86	22.00' LT	686.24

(XXX.XX) = EXISTING ELEVATION

POINT	STATION	OFFSET	ELEV.
25-A	66+15.96	15.00' RT	685.69
25-B	66+15.95	16.58' RT	685.71
25-C	66+15.95	21.00' RT	685.77
25-D	66+20.96	15.21' RT	685.76
25-E	66+20.95	16.80' RT	685.78
25-F	66+20.95	21.00' RT	685.84
25-G	66+35.12	21.00' RT	686.06
25-H	66+32.64	21.00' RT	686.03
25-I	66+28.46	21.00' RT	686.00
25-J	66+07.95	21.00' RT	686.07
25-K	66+42.80	29.00' RT	686.22
25-L	66+40.91	29.00' RT	686.20
25-M	66+28.46	29.00' RT	686.11
25-N	66+20.95	29.00' RT	685.91
25-O	66+19.95	29.00' RT	685.89
25-P	66+15.95	29.00' RT	685.84
25-Q	66+07.95	29.00' RT	686.19
25-R	66+15.87	44.00' RT	(686.95)
25-S	66+19.75	44.00' RT	(686.81)
25-T	66+47.42	45.08' RT	(686.78)
25-U	66+64.41	21.00' RT	686.48
25-V	66+64.41	29.00' RT	686.60

(XXX.XX) = EXISTING ELEVATION

POINT	STATION	OFFSET	ELEV.
25-AA	66+81.41	44.43' RT	(686.84)
25-AB	66+82.66	36.40' RT	686.40
25-AC	66+86.03	29.00' RT	686.88
25-AD	66+87.92	29.00' RT	686.86
25-AE	66+93.40	21.00' RT	686.85
25-AF	66+96.19	21.00' RT	686.92
25-AG	66+98.19	21.00' RT	686.93
25-AH	66+98.09	18.11' RT	686.87
25-AI	67+08.25	15.17' RT	686.96
25-AJ	67+08.24	16.76' RT	686.95
25-AK	67+08.23	21.00' RT	686.99
25-AL	67+13.26	15.00' RT	687.02
25-AM	67+13.24	16.58' RT	687.01
25-AN	67+13.23	21.00' RT	687.05
25-AO	66+98.19	29.00' RT	686.91
25-AP	67+08.23	29.00' RT	687.07
25-AQ	67+09.21	29.00' RT	687.08
25-AR	67+13.18	29.00' RT	687.13
25-AS	67+09.20	34.00' RT	(687.21)
25-AT	67+13.20	34.01' RT	(687.34)
25-AU	66+83.62	36.68' RT	686.34
25-AV	66+84.18	36.85' RT	686.75
25-AW	66+87.22	29.00' RT	686.89
25-AX	66+95.12	21.00' RT	686.87
25-AY	66+98.54	19.01' RT	686.89
25-AZ	66+98.80	19.53' RT	687.22

(XXX.XX) = EXISTING ELEVATION

FILE NAME = N:\BuffaloGrove\200385\Civil\VBG-sht-CI_ADA_4.dgn

CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

CLIENT: Village of Buffalo Grove
51 RAUPP BOULEVARD
BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

NO.	DATE	NATURE OF REVISION	CHKD.

DSGN. VMR
DWN. MAK
CHKD. LMF
USER NAME = jstrick
PLOT DATE = 11/1/2023

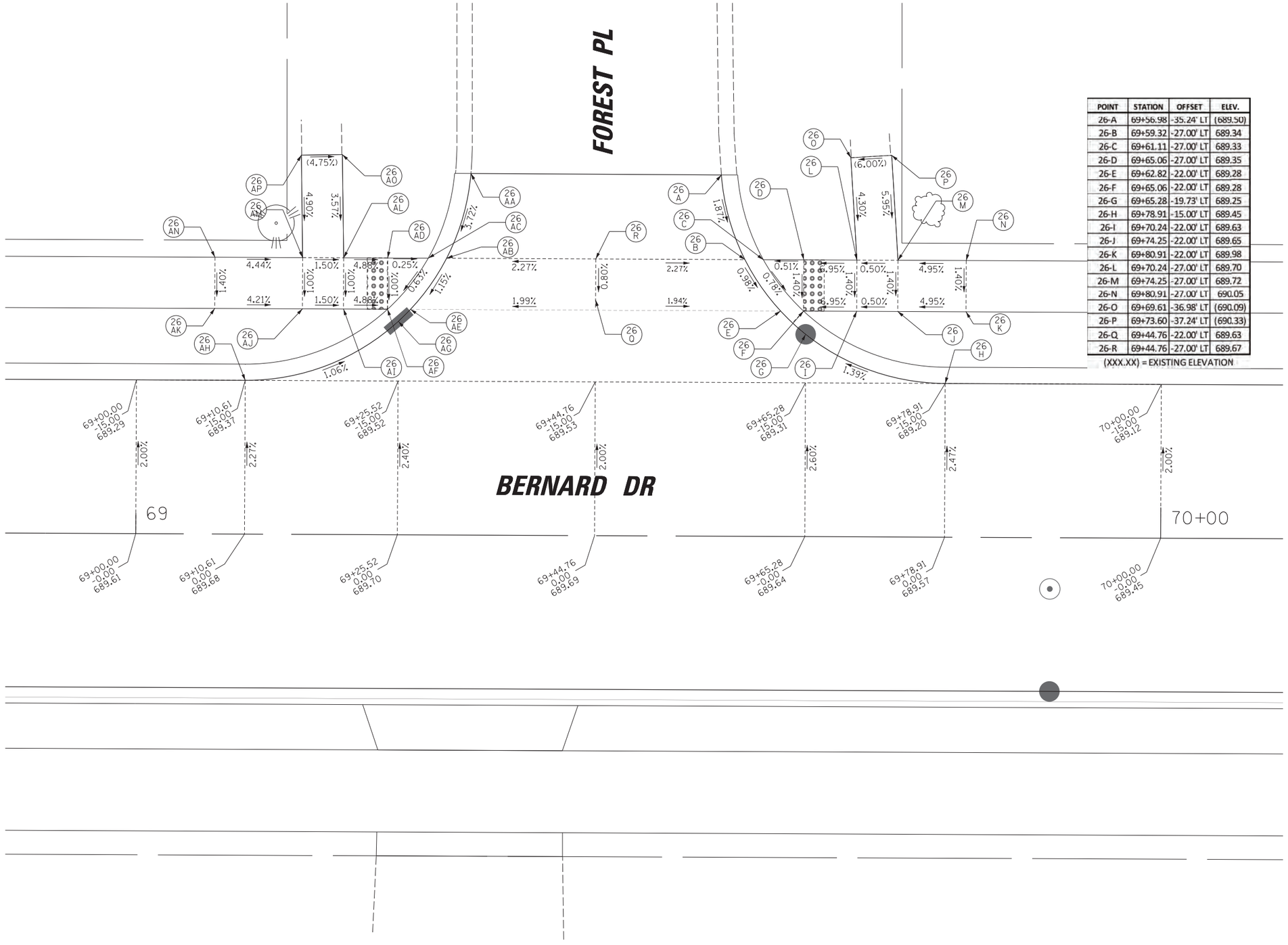
TITLE: BERNARD DRIVE ADA RAMP DETAILS

SCALE: 1:5 | SHEET 4 OF 9 SHEETS | STA. TO STA.

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 37 OF 97

POINT	STATION	OFFSET	ELEV.
26-AA	69+32.55	-35.28' LT	(689.66)
26-AB	69+30.21	-27.00' LT	689.34
26-AC	69+28.42	-27.00' LT	689.32
26-AD	69+24.47	-27.00' LT	689.33
26-AE	69+26.71	-22.00' LT	689.27
26-AF	69+24.47	-22.00' LT	689.28
26-AG	69+25.52	-20.82' LT	689.26
26-AH	69+10.61	-15.00' LT	689.43
26-AI	69+20.17	-22.00' LT	689.49
26-AJ	69+16.17	-22.00' LT	689.55
26-AK	69+07.61	-22.00' LT	689.91
26-AL	69+20.17	-27.00' LT	689.54
26-AM	69+16.17	-27.00' LT	689.60
26-AN	69+07.61	-27.00' LT	689.98
26-AO	69+20.00	-37.07' LT	(689.90)
26-AP	69+16.00	-37.00' LT	(690.09)

(XXX.XX) = EXISTING ELEVATION



POINT	STATION	OFFSET	ELEV.
26-A	69+56.98	-35.24' LT	(689.50)
26-B	69+59.32	-27.00' LT	689.34
26-C	69+61.11	-27.00' LT	689.33
26-D	69+65.06	-27.00' LT	689.35
26-E	69+62.82	-22.00' LT	689.28
26-F	69+65.06	-22.00' LT	689.28
26-G	69+65.28	-19.73' LT	689.25
26-H	69+78.91	-15.00' LT	689.45
26-I	69+70.24	-22.00' LT	689.63
26-J	69+74.25	-22.00' LT	689.65
26-K	69+80.91	-22.00' LT	689.98
26-L	69+70.24	-27.00' LT	689.70
26-M	69+74.25	-27.00' LT	689.72
26-N	69+80.91	-27.00' LT	690.05
26-O	69+69.61	-36.98' LT	(690.09)
26-P	69+73.60	-37.24' LT	(690.33)
26-Q	69+44.76	-22.00' LT	689.63
26-R	69+44.76	-27.00' LT	689.67

(XXX.XX) = EXISTING ELEVATION

N

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SCALE IN FEET

FILE NAME = N:\BuffaloGrove\200385\Civil\VBG-sht-C1.ADA.5.dgn

CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

CLIENT:

Village of Buffalo Grove
51 RAUPP BOULEVARD
BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

NO.	DATE	NATURE OF REVISION	CHKD.

DSGN.	VMR	
DWN.	MAK	
CHKD.	LMF	
USER NAME = jsirick		
PLOT DATE = 11/1/2023		

TITLE: **BERNARD DRIVE**
ADA RAMP DETAILS

SCALE: 1:5 | SHEET 5 OF 9 SHEETS | STA. TO STA.

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 38 OF 97

POINT	STATION	OFFSET	ELEV.
27-A	71+91.82	15.00' LT	688.28
27-B	71+95.13	15.28' LT	688.23
27-C	71+95.13	16.88' LT	688.21
27-D	71+95.13	22.00' LT	688.26
27-E	71+95.13	27.00' LT	688.33
27-F	71+95.19	36.00' LT	(688.77)
27-G	72+00.13	16.81' LT	688.15
27-H	72+00.13	18.56' LT	688.15
27-I	72+00.13	22.00' LT	688.19
27-J	72+00.13	27.00' LT	688.26
27-K	71+99.13	27.00' LT	688.28
27-L	71+99.19	36.00' LT	(688.66)
27-M	72+04.68	19.68' LT	688.00
27-N	72+07.02	22.00' LT	688.05
27-O	72+04.86	22.00' LT	688.05
27-P	71+81.13	22.00' LT	688.94
27-Q	72+10.15	27.00' LT	688.14
27-R	72+08.41	27.00' LT	688.12
27-S	72+04.86	27.00' LT	688.14
27-T	71+81.13	27.00' LT	689.01
27-U	72+11.79	38.83' LT	(688.31)
27-V	72+23.90	27.00' LT	688.28
27-W	72+23.90	22.00' LT	688.24
27-X	71+95.13	0.00' RT	688.64
27-Y	72+00.13	0.00' RT	688.61

(XXX.XX) = EXISTING ELEVATION

POINT	STATION	OFFSET	ELEV.
27-AA	72+36.00	38.99' LT	(688.23)
27-AB	72+39.63	27.00' LT	688.09
27-AC	72+41.50	27.00' LT	688.06
27-AD	72+48.71	27.00' LT	688.12
27-AE	72+48.71	37.00' LT	(688.47)
27-AF	72+52.71	37.00' LT	(688.60)
27-AG	72+52.71	27.00' LT	688.15
27-AH	72+60.73	27.00' LT	688.48
27-AI	72+43.63	22.00' LT	687.97
27-AJ	72+47.76	18.78' LT	687.97
27-AK	72+52.77	16.39' LT	688.04
27-AL	72+52.76	18.07' LT	688.02
27-AM	72+52.73	23.00' LT	688.09
27-AN	72+60.73	23.00' LT	688.42
27-AO	72+56.27	15.45' LT	688.06
27-AP	72+60.98	15.00' LT	688.05
27-AQ	72+47.86	0.00 RT	688.35
27-AR	72+52.86	0.00 RT	688.32

(XXX.XX) = EXISTING ELEVATION

POINT	STATION	OFFSET	ELEV.
28-A	71+86.18	15.00' RT	688.38
28-B	71+95.14	16.59' RT	688.31
28-C	71+95.14	18.29' RT	688.30
28-D	72+00.14	19.07' RT	688.25
28-E	72+02.79	21.00' RT	688.20
28-F	72+09.24	29.00' RT	688.05
28-G	72+07.44	29.00' RT	688.07
28-H	71+99.14	29.00' RT	688.20
28-I	71+95.14	29.00' RT	688.26
28-J	71+85.14	29.00' RT	688.69
28-K	71+85.14	21.00' RT	688.57
28-L	71+95.06	39.00' RT	(688.61)
28-M	71+99.06	38.96' RT	(688.53)
28-N	72+10.20	31.05' RT	688.02
28-O	72+12.18	41.11' RT	(688.37)
28-P	72+24.20	21.00' RT	688.26
28-Q	72+24.20	29.00' RT	688.38

(XXX.XX) = EXISTING ELEVATION

POINT	STATION	OFFSET	ELEV.
28-R	72+62.23	15.00' RT	687.82
28-S	72+52.94	16.72' RT	687.95
28-T	72+52.95	18.41' RT	687.96
28-U	72+47.96	19.27' RT	688.03
28-V	72+45.62	21.00' RT	688.07
28-W	72+62.23	21.00' RT	688.11
28-X	72+39.17	29.00' RT	688.21
28-Y	72+40.96	29.00' RT	688.20
28-Z	72+49.04	29.00' RT	688.11
28-AA	72+53.01	29.00' RT	688.10
28-AB	72+62.23	29.00' RT	688.23
28-AC	72+49.01	34.00' RT	(688.19)
28-AD	72+53.01	34.00' RT	(688.35)
28-AE	72+36.23	41.15' RT	688.39

(XXX.XX) = EXISTING ELEVATION

SCALE IN FEET

FILE NAME = N:\BuffaloGrove\200385\Civil\VBG-ant-C1_ADA_6.dgn

CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

CLIENT: **Village of Buffalo Grove**
51 RAUPP BOULEVARD
BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

NO.	DATE	NATURE OF REVISION	CHKD.

DSGN. VMR
DWN. MAK
CHKD. LMF
USER NAME = jstrick
PLOT DATE = 11/1/2023

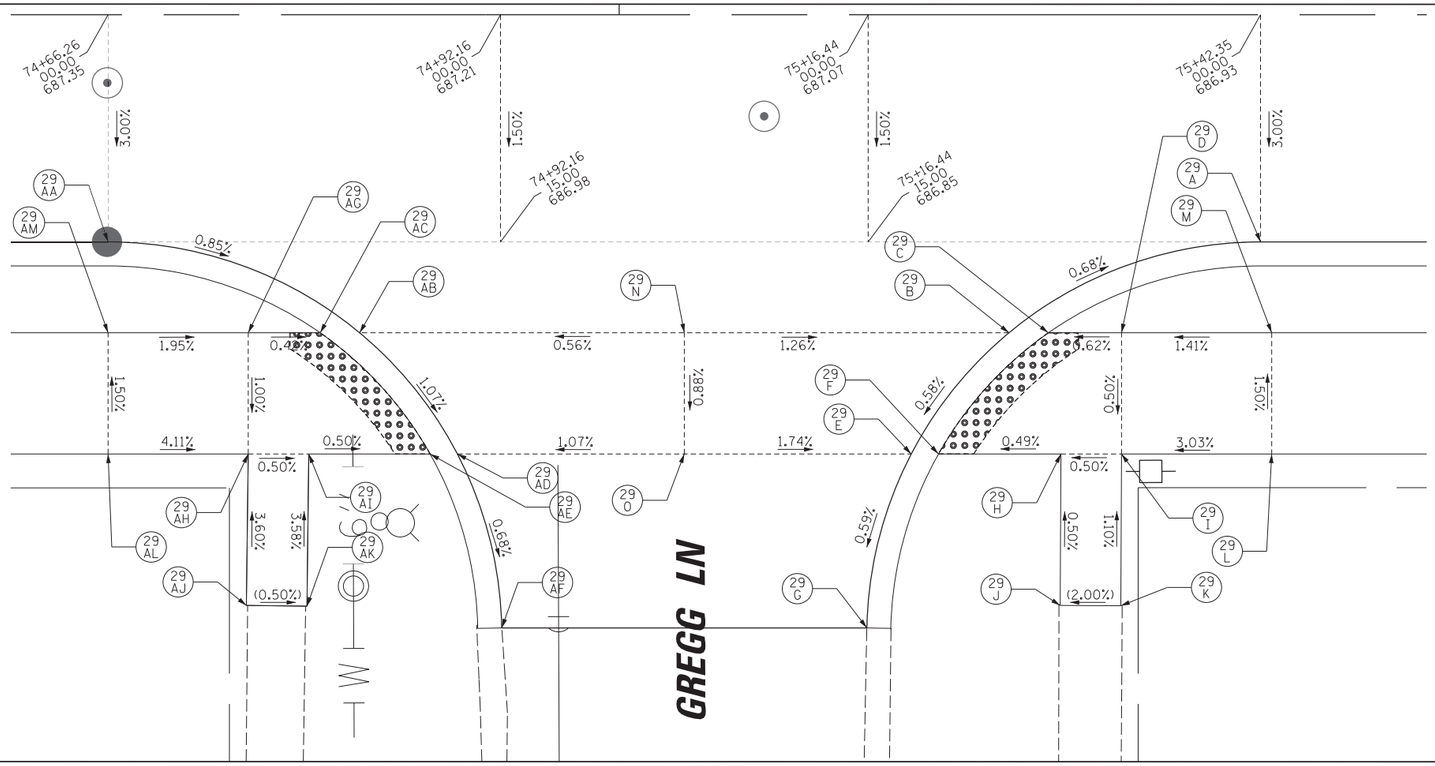
TITLE: **BERNARD DRIVE ADA RAMP DETAILS**

SCALE: 1:5 | SHEET 6 OF 9 SHEETS | STA. 16 TO STA.

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 39 OF 97

POINT	STATION	OFFSET	ELEV.
29-AA	74+66.26	15.00' RT	686.90
29-AB	74+82.87	21.00' RT	686.75
29-AC	74+80.27	21.00' RT	686.76
29-AD	74+89.32	29.00' RT	686.64
29-AE	74+87.53	29.00' RT	686.64
29-AF	74+92.25	40.48' RT	(686.56)
29-AG	74+75.51	21.00' RT	686.78
29-AH	74+75.51	29.00' RT	686.70
29-AI	74+79.51	29.00' RT	686.68
29-AJ	74+75.39	39.00' RT	(687.06)
29-AK	74+79.39	39.05' RT	(687.04)
29-AL	74+66.26	29.00' RT	687.08
29-AM	74+66.26	21.00' RT	686.96

(XXX.XX) = EXISTING ELEVATION



POINT	STATION	OFFSET	ELEV.
29-A	75+42.35	15.00' RT	686.48
29-B	75+25.74	21.00' RT	686.60
29-C	75+28.34	21.00' RT	686.60
29-D	75+33.17	21.00' RT	686.63
29-E	75+19.28	29.00' RT	686.54
29-F	75+21.08	29.00' RT	686.53
29-G	75+16.35	40.48' RT	(686.47)
29-H	75+29.17	29.00' RT	686.57
29-I	75+33.17	29.00' RT	686.59
29-J	75+29.12	39.00' RT	(686.62)
29-K	75+33.12	39.02' RT	(686.70)
29-L	75+43.08	29.00' RT	686.89
29-M	75+43.08	21.00' RT	686.77
29-N	75+04.30	29.00' RT	686.80
29-O	75+04.30	21.00' RT	686.87

(XXX.XX) = EXISTING ELEVATION

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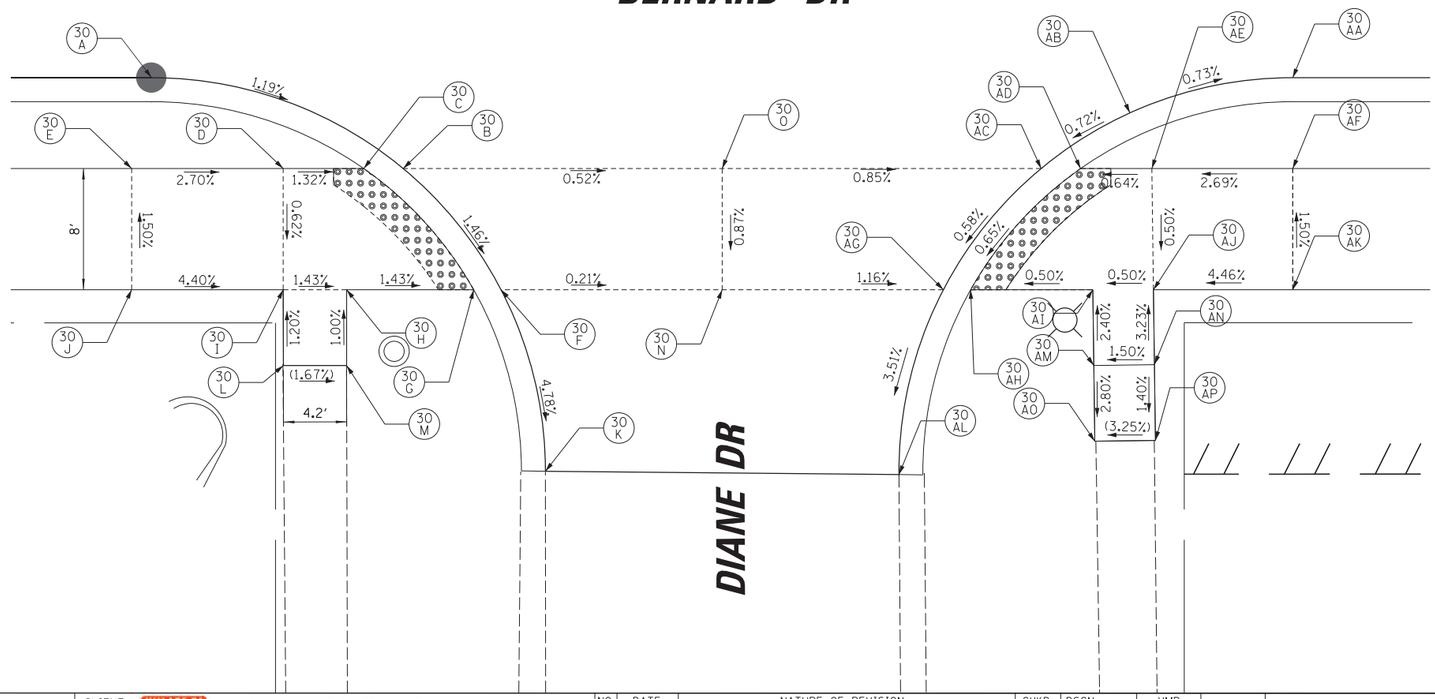
BERNARD DR

POINT	STATION	OFFSET	ELEV.
30-A	77+46.09	15.00' RT	685.36
30-B	77+62.70	21.00' RT	685.15
30-C	77+60.10	21.00' RT	685.18
30-D	77+54.78	21.00' RT	685.25
30-E	77+44.78	21.00' RT	685.52
30-F	77+69.16	29.00' RT	685.00
30-G	77+67.36	29.00' RT	685.02
30-H	77+58.97	29.00' RT	685.14
30-I	77+54.78	29.00' RT	685.20
30-J	77+44.78	29.00' RT	685.64
30-K	77+72.09	40.98' RT	(684.41)
30-L	77+54.78	34.00' RT	(685.26)
30-M	77+58.97	34.00' RT	(685.19)
30-N	77+83.76	29.00' RT	684.97
30-O	77+83.76	21.00' RT	685.04

(XXX.XX) = EXISTING ELEVATION



POINT	STATION	OFFSET	ELEV.
30-AA	78+21.43	15.00' RT	684.83
30-AB	78+10.67	17.33' RT	684.91
30-AC	78+04.82	21.00' RT	684.86
30-AD	78+07.42	21.00' RT	684.86
30-AE	78+12.13	21.00' RT	684.89
30-AF	78+21.43	21.00' RT	685.14
30-AG	77+98.36	29.00' RT	684.80
30-AH	78+00.16	29.00' RT	684.79
30-AI	78+08.23	29.00' RT	684.83
30-AJ	78+12.23	29.00' RT	684.85
30-AK	78+21.43	29.00' RT	685.26
30-AL	77+95.43	41.20' RT	(684.36)
30-AM	78+08.30	34.00' RT	684.95
30-AN	78+12.30	33.95' RT	685.01
30-AO	78+08.36	39.00' RT	(684.81)
30-AP	78+12.36	38.95' RT	(684.94)

(XXX.XX) = EXISTING ELEVATION

N

5 0 5
SCALE IN FEET

FILE NAME = N:\BuffaloGrove\200385\Civil\VBG-str-C1.ADA.7.dgn

CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

CLIENT:

Village of Buffalo Grove
51 RAUPP BOULEVARD
BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

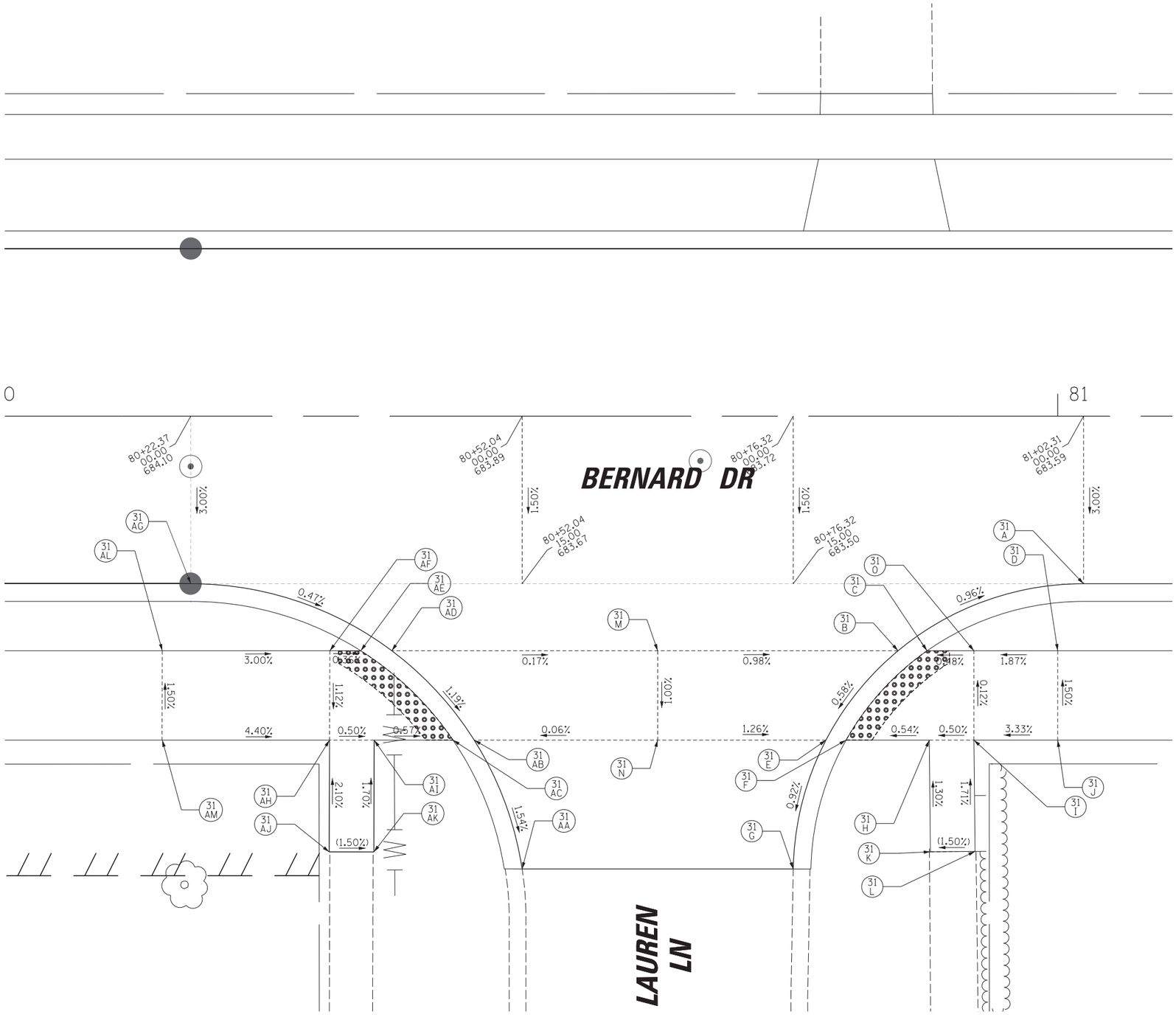
NO.	DATE	NATURE OF REVISION	CHKD.

DSGN. VMR
DWN. MAK
CHKD. LMF
USER NAME = jstrick
PLOT DATE = 11/1/2023

TITLE: **BERNARD DRIVE ADA RAMP DETAILS**

SCALE: 1:5.00113 | SHEET 7 OF 9 SHEETS | STA. TO STA.

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 40 OF 97



POINT	STATION	OFFSET	ELEV.
31-AA	80+52.04	40.53' RT	(683.24)
31-AB	80+47.75	29.00' RT	683.43
31-AC	80+45.86	29.00' RT	683.43
31-AD	80+40.37	21.00' RT	683.56
31-AE	80+37.59	21.00' RT	683.57
31-AF	80+34.82	21.00' RT	683.58
31-AG	80+22.37	15.00' RT	683.65
31-AH	80+34.80	29.00' RT	683.49
31-AI	80+38.80	29.00' RT	683.47
31-AJ	80+34.76	39.00' RT	(683.70)
31-AK	80+38.76	39.01' RT	(683.64)
31-AL	80+19.82	21.00' RT	684.03
31-AM	80+19.80	29.00' RT	684.15

(XXX.XX) = EXISTING ELEVATION

POINT	STATION	OFFSET	ELEV.
31-A	81+02.31	15.00' RT	683.14
31-B	80+85.70	21.00' RT	683.31
31-C	80+88.30	21.00' RT	683.30
31-D	81+00.00	21.00' RT	683.46
31-E	80+79.25	29.00' RT	683.25
31-F	80+81.04	29.00' RT	683.27
31-G	80+76.32	40.53' RT	(683.14)
31-H	80+88.50	29.00' RT	683.31
31-I	80+92.50	29.00' RT	683.33
31-J	81+00.00	29.00' RT	683.58
31-K	80+88.60	39.00' RT	(683.44)
31-L	80+92.60	38.96' RT	(683.50)
31-M	80+64.18	21.00' RT	683.52
31-N	80+64.18	29.00' RT	683.44
31-O	80+92.50	21.00' RT	683.32

(XXX.XX) = EXISTING ELEVATION

FILE NAME = N:\Buffalo Grove\200385\Civil\VBG-ent-C1.404_8.dgn

CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

CLIENT: **Village of Buffalo Grove**
51 RAUPP BOULEVARD
BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

NO.	DATE	NATURE OF REVISION	CHKD.

DSGN.	VMR
DWN.	MAK
CHKD.	LMF
USER NAME	= jstrick
PLOT DATE	= 11/1/2023

TITLE: **BERNARD DRIVE**
ADA RAMP DETAILS

SCALE: 1:5.00113 | SHEET 8 OF 9 SHEETS | STA. TO STA.

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 41 OF 97

POINT	STATION	OFFSET	ELEV.
32-A	82+89.17	45.72' LT	(682.43)
32-B	82+89.80	36.71' LT	682.32
32-C	82+88.76	31.05' LT	682.23
32-D	82+87.03	27.00' LT	682.18
32-E	82+85.21	27.00' LT	682.16
32-F	82+84.27	23.00' LT	682.14
32-G	82+80.27	19.33' LT	682.11
32-H	82+75.45	16.68' LT	682.08
32-I	82+75.28	18.32' LT	682.08
32-J	82+72.61	15.74' LT	682.06
32-K	82+72.36	16.71' LT	682.01
32-L	82+72.21	17.27' LT	682.04
32-M	82+66.83	15.00' LT	682.10
32-N	82+74.79	23.00' LT	682.15
32-O	82+66.83	23.00' LT	682.76
32-P	82+61.83	23.00' LT	682.80
32-Q	82+78.39	27.00' LT	682.19
32-R	82+74.37	27.00' LT	682.21
32-S	82+66.83	27.00' LT	682.82
32-T	82+61.83	27.00' LT	682.86
32-U	82+73.33	36.95' LT	683.01
32-V	82+77.31	37.36' LT	682.97
32-W	82+72.81	41.92' LT	683.07
32-X	82+76.79	42.33' LT	683.03
32-Y	82+72.29	46.89' LT	(683.34)
32-Z	82+76.27	47.31' LT	(683.14)

(XXX.XX) = EXISTING ELEVATION

POINT	STATION	OFFSET	ELEV.
32-AA	83+13.69	39.00' LT	682.29
32-AB	83+17.01	27.00' LT	682.03
32-AC	83+22.10	27.00' LT	681.98
32-AD	83+19.91	23.00' LT	681.96
32-AE	83+22.10	23.00' LT	681.92
32-AF	83+23.68	19.59' LT	681.89
32-AG	83+24.61	20.87' LT	681.91
32-AH	83+27.63	17.26' LT	681.83
32-AI	83+27.52	19.08' LT	681.83
32-AJ	83+32.82	15.52' LT	681.78
32-AK	83+32.50	19.48' LT	681.80
32-AL	83+37.80	15.00' LT	681.75
32-AM	83+27.20	23.00' LT	681.90
32-AN	83+32.22	23.00' LT	681.94
32-AO	83+50.00	23.00' LT	682.47
32-AP	83+27.20	27.00' LT	681.96
32-AQ	83+27.88	27.00' LT	681.97
32-AR	83+31.89	27.00' LT	682.00
32-AS	83+50.00	27.00' LT	(682.53)
32-AT	83+27.08	36.97' LT	682.68
32-AU	83+31.06	37.29' LT	682.72
32-AV	83+26.67	41.95' LT	682.74
32-AW	83+30.66	42.27' LT	682.78
32-AX	83+26.27	46.94' LT	(682.79)
32-AY	83+30.26	47.26' LT	(683.00)
32-AZ	83+12.83	47.99' LT	(682.46)
32-BA	83+02.02	27.00' LT	682.10
32-BB	83+02.09	23.00' LT	682.04

(XXX.XX) = EXISTING ELEVATION

POINT	STATION	OFFSET	ELEV.
33-AA	82+97.27	43.62' RT	(681.01)
33-AB	82+93.22	29.00' RT	681.39
33-AC	82+91.38	29.00' RT	681.41
33-AD	82+86.29	21.00' RT	681.63
33-AE	82+83.10	18.83' RT	681.70
33-AF	82+77.91	16.47' RT	681.78
33-AG	82+78.09	18.20' RT	681.76
33-AH	82+78.37	21.00' RT	681.72
33-AI	82+68.97	15.00' RT	681.87
33-AJ	82+66.83	29.00' RT	681.90
33-AK	82+79.19	29.00' RT	681.60
33-AL	82+83.22	29.00' RT	681.54
33-AM	82+80.26	39.36' RT	681.76
33-AN	82+84.24	38.95' RT	681.70
33-AO	82+81.28	49.30' RT	(681.79)
33-AP	82+85.26	48.90' RT	(681.54)
33-AQ	82+66.83	21.00' RT	681.78
33-AR	82+76.69	0.00' RT	682.28
33-AS	82+81.70	0.00' RT	682.25

(XXX.XX) = EXISTING ELEVATION

POINT	STATION	OFFSET	ELEV.
33-A	83+45.21	15.00' RT	681.48
33-B	83+36.02	16.83' RT	681.49
33-C	83+36.16	18.49' RT	681.49
33-D	83+36.38	21.00' RT	681.46
33-E	83+29.34	21.00' RT	681.43
33-F	83+23.39	29.00' RT	681.29
33-G	83+25.15	29.00' RT	681.29
33-H	83+21.32	41.25' RT	681.03
33-I	83+33.07	29.00' RT	(681.35)
33-J	83+37.08	29.00' RT	681.38
33-K	83+34.41	44.29' RT	681.44
33-L	83+38.39	43.94' RT	(681.65)
33-M	83+50.00	21.00' RT	(681.82)
33-N	83+50.00	29.00' RT	681.94
33-O	83+07.18	21.00' RT	681.61
33-P	83+07.97	29.00' RT	681.53
33-Q	83+31.85	21.00' RT	681.42
33-R	83+29.33	0.00' RT	682.01
33-S	83+34.35	0.00' RT	681.99

(XXX.XX) = EXISTING ELEVATION

NAVAJO TRAIL

83 BERNARD DR

NAVAJO TRAIL

N

5 0 5

SCALE IN FEET

FILE NAME = N:\BuffaloGrove\200385\Civil\VBG-ant-C1.ADA-9.dgn

CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

CLIENT: **Village of Buffalo Grove**
51 RAUPP BOULEVARD
BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

NO.	DATE	NATURE OF REVISION	CHKD.

DSGN. VMR
DWN. MAK
CHKD. LMF
USER NAME = jstrick
PLOT DATE = 11/1/2023

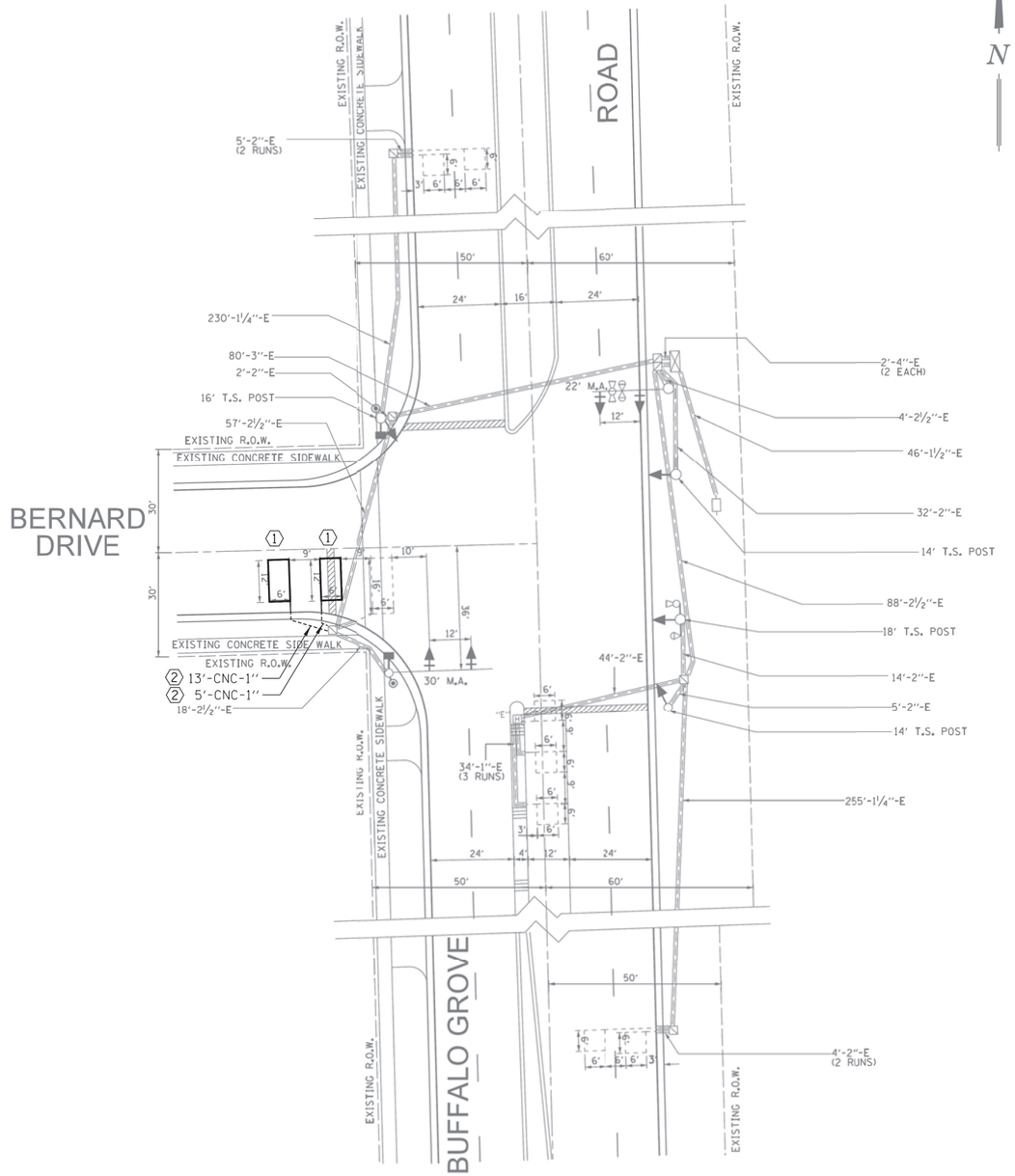
TITLE: **BERNARD DRIVE ADA RAMP DETAILS**

SCALE: 1:5.00113 | SHEET 9 OF 9 SHEETS | STA. TO STA.

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 42 OF 97

LEGEND

EXISTING	PROPOSED	
		CONTROLLER
		SERVICE INSTALLATION
		SIGNAL HEAD
"P"	"P"	SIGNAL HEAD, OPTICALLY PROGRAMMED
		SIGNAL HEAD AND POST
		SIGNAL HEAD WITH BACKPLATE
		SIGNAL HEAD, PEDESTRIAN
		SIGNAL POST
		MAST ARM ASSEMBLY AND POLE, STEEL
		MAST ARM ASSEMBLY AND POLE, ALUMINUM
		HANDHOLE
"E"	H	HEAVY DUTY HANDHOLE
		DOUBLE HANDHOLE
	---	GALVANIZED STEEL CONDUIT
		CONDUIT SPLICE
	20'-1"-T	IN TRENCH
		SIZE OF CONDUIT
		LENGTH OF CONDUIT
	20'-1"-P	PUSHED
	20'-1"-UD	UNIT DUCT
20'-1"-E		EXISTING CONDUIT
		EMERGENCY VEHICLE SYSTEM DETECTOR
		CONFIRMATION BEACON
		PEDESTRIAN PUSHBUTTON
		DETECTOR LOOP
"E"		TEMPORARY WOOD POLE
		DETECTION ZONE



CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL REPLACE THE EASTBOUND DETECTOR LOOPS THAT ARE DAMAGED BY THE ROADWAY RECONSTRUCTION WORK ON BERNARD DRIVE.

2. THE CONTRACTOR SHALL INSTALL NEW LEAD-IN CABLE FOR ALL DETECTOR LOOPS BEING REPLACED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING LEAD-IN CABLE.

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF BY HIM OUTSIDE THE RIGHT-OF-WAY AT HIS EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

QUANTITY	UNIT	DESCRIPTION
6	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
2	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
2	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
1	EACH	PEDESTRIAN PUSH-BUTTON

FILE NAME = N:\BuffaloGrove\200385\Traffic\TS-01.200385-Bernard.MOD.dgn

CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

CLIENT: Village of Buffalo Grove
51 RAUPP BOULEVARD
BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

NO.	DATE	NATURE OF REVISION	CHKD.

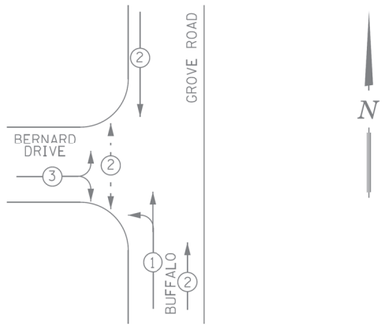
DSGN. VMR ___
DWN. MAK ___
CHKD. LMF ___
USER NAME = jsirick
PLOT DATE = 11/1/2023

TITLE: **BERNARD DRIVE**
TRAFFIC SIGNAL PLANS

SCALE: 1:20 | SHEET 1 OF 4 SHEETS | STA. | TO STA.

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 43 OF 97

EXISTING CONTROLLER SEQUENCE



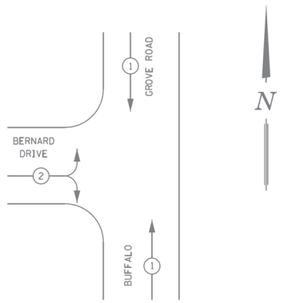
PHASE DESIGNATION DIAGRAM

DUAL ENTRY - ALL LEGS
PROTECTED / PERMITTED LEFT TURN PHASING

LEGEND

- VEHICULAR MOVEMENT
- PEDESTRIAN MOVEMENT
- NUMBER REFERS TO ASSOCIATED PHASE

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



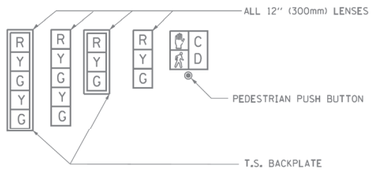
EXISITING EMERGENCY VEHICLE PREEMPTOR		
EMERGENCY VEHICLE PREEMPTOR	1	2
MOVEMENT		

CCHD TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS						
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION		TOTAL WATTAGE
SIGNAL (RED)	8 x	135	17	x	0.50	68
(YELLOW)	8 x	135	25	x	0.25	50
(GREEN)	8 x	135	15	x	0.25	30
ARROW	2 x	135	12	x	0.10	2.4
PED. SIGNAL	0 x	90	25	x	1.00	0
CONTROLLER	1 x	100	100	x	1.00	100
VEHICLE DET.	4 x	84	5	x	0.05	20
FLASHER				x	0.50	
ENERGY COSTS TO:					TOTAL =	170.4

CALL CCHD FOR BILLING INFORMATION AT (312) 603-1730.

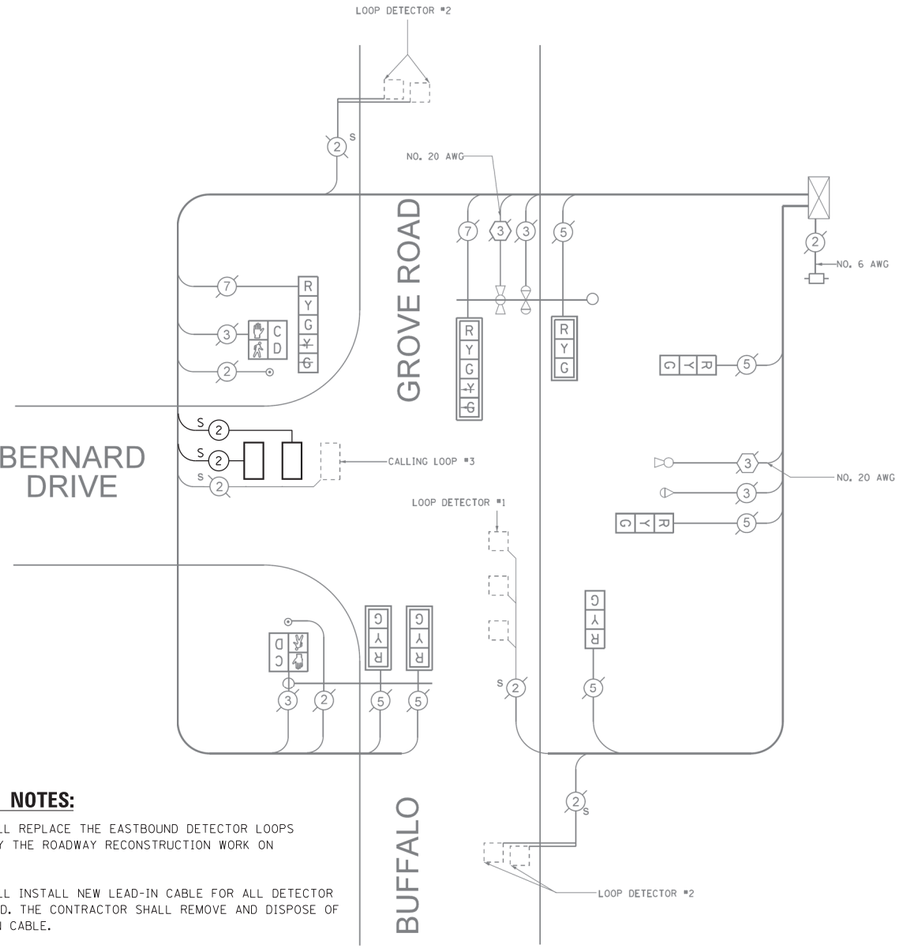
ENERGY SUPPLY CONTACT: ComEd
PHONE: (866)-639-3532
COMPANY: ComEd

SIGNAL FACES



SIGNAL LENSES

R	RED
Y	YELLOW
G	GREEN
⊀	YELLOW TURN INDICATOR
G	GREEN TURN INDICATOR



CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL REPLACE THE EASTBOUND DETECTOR LOOPS THAT ARE DAMAGED BY THE ROADWAY RECONSTRUCTION WORK ON BERNARD DRIVE.
2. THE CONTRACTOR SHALL INSTALL NEW LEAD-IN CABLE FOR ALL DETECTOR LOOPS BEING REPLACED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING LEAD-IN CABLE.

CABLE PLAN LEGEND

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	346
DETECTOR LOOP, TYPE I	FOOT	78
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	346

CABLE PLAN

NOT TO SCALE

FILE NAME = N:\BuffaloGrove\200385\Traffic\TS-02_200385-Bernard.CAB.dgn

CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

CLIENT:

Village of Buffalo Grove
51 RAUPP BOULEVARD
BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

NO.	DATE	NATURE OF REVISION	CHKD.

DSGN. VMR ___
DWN. MAK ___
CHKD. LMF ___
USER NAME = jsirick
PLOT DATE = 11/1/2023

TITLE: **BERNARD DRIVE TRAFFIC SIGNAL PLANS**

SCALE: 1:22.5 | SHEET 2 OF 4 SHEETS | STA. | TO STA.

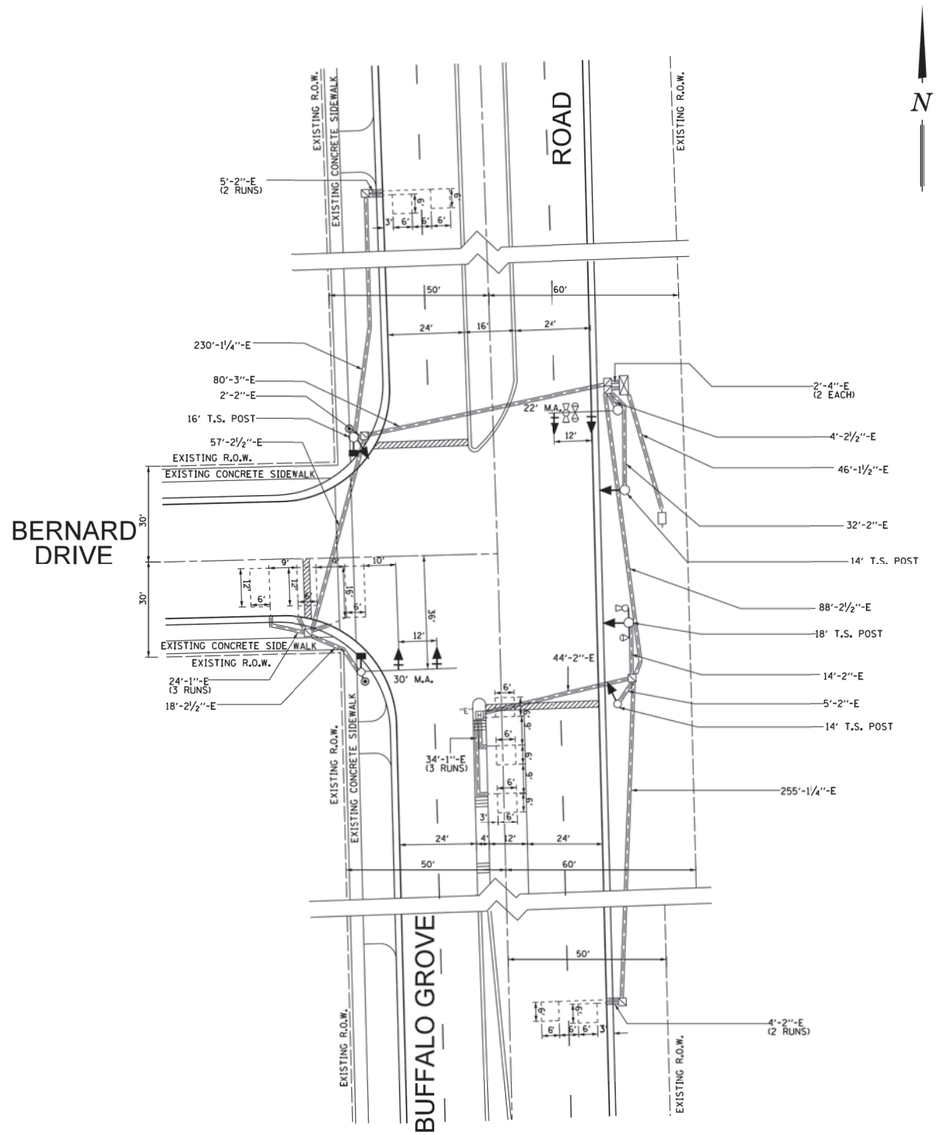
SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 44 OF 97

COUNTY HIGHWAY	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
W14	2011	33	117

SECTION: 10-TSCMC-08-TL

LEGEND

EXISTING	PROPOSED	
⊠	⊠	CONTROLLER
□	■	SERVICE INSTALLATION
▷	➤	SIGNAL HEAD
▷ "P"	➤ "P"	SIGNAL HEAD, OPTICALLY PROGRAMMED
○▷	●➤	SIGNAL HEAD AND POST
┼▷	┼➤	SIGNAL HEAD WITH BACKPLATE
⊣□	⊣■	SIGNAL HEAD, PEDESTRIAN
○	●	SIGNAL POST
○—	●—	MAST ARM ASSEMBLY AND POLE, STEEL
○—	●—	MAST ARM ASSEMBLY AND POLE, ALUMINUM
▨	◥	HANDHOLE
▨ "E"	H	HEAVY DUTY HANDHOLE
▨	◥◤	DOUBLE HANDHOLE
═	---	GALVANIZED STEEL CONDUIT
—	—⊂	CONDUIT SPLICE
	20'-1"-T	IN TRENCH
	20'-1"	SIZE OF CONDUIT
	-T	LENGTH OF CONDUIT
	20'-1"-P	PUSHED
	20'-1"-UD	UNIT DUCT
20'-1"-E		EXISTING CONDUIT
⋈	⋈	EMERGENCY VEHICLE SYSTEM DETECTOR
⊂⊃	⊂⊃	CONFIRMATION BEACON
o	•	PEDESTRIAN PUSHBUTTON
⬚	□	DETECTOR LOOP
⊗ "E"	⊗	TEMPORARY WOOD POLE
	▨	DETECTION ZONE



REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF BY HIM OUTSIDE THE RIGHT-OF-WAY AT HIS EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

QUANTITY	UNIT	DESCRIPTION
6	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
2	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
2	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
1	EACH	PEDESTRIAN PUSH-BUTTON

FOR INFORMATION ONLY

SCALE 1"=20'

COUNTY OF COOK
DEPARTMENT OF HIGHWAYS

TRAFFIC SIGNAL INSTALLATION
BUFFALO GROVE ROAD AND BERNARD DRIVE
MODERNIZATION PLAN

COMPUTED FL | APPROVED _____ 20 ___
DRAWN FL | _____
CHECKED PLW/RJJ | _____
CHIEF ENGINEER

FILE NAME = N:\BuffaloGrove\200385\Traffic\TS-03-MOD.INFO ONLY.dgn

CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

CLIENT: Village of Buffalo Grove

Village of Buffalo Grove
51 RAUPP BOULEVARD
BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

NO.	DATE	NATURE OF REVISION	CHKD.

DSGN. VMR ___
DWN. MAK ___
CHKD. LMF ___
USER NAME = jsitrick
PLOT DATE = 11/1/2023

TITLE: **BERNARD DRIVE TRAFFIC SIGNAL PLANS**

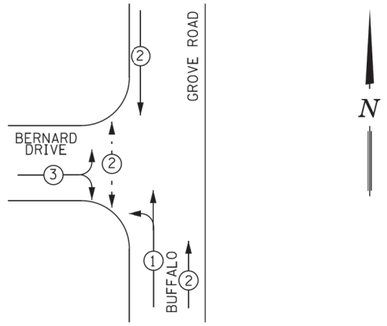
SCALE: 1:22.5 | SHEET 3 OF 4 SHEETS | STA. | TO STA.

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 45 OF 97

COUNTY HIGHWAY	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
W14	2011	34	117

SECTION: 10-TSCMC-08-TL

EXISTING CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

DUAL ENTRY - ALL LEGS
PROTECTED / PERMITTED LEFT TURN PHASING

LEGEND
VEHICULAR MOVEMENT
PEDESTRIAN MOVEMENT
NUMBER REFERS TO ASSOCIATED PHASE

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

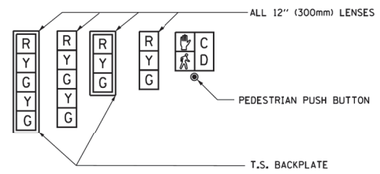
EXISITING EMERGENCY VEHICLE PREEMPTOR		
EMERGENCY VEHICLE PREEMPTOR	1	2
MOVEMENT		

CCHD TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS						
TYPE	NO. LAMPS		WATTAGE INCAND.	WATTAGE LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	8	x	135	17	x 0.50	68
(YELLOW)	8	x	135	25	x 0.25	50
(GREEN)	8	x	135	15	x 0.25	30
ARROW	2	x	135	12	x 0.10	2.4
PED. SIGNAL	0	x	90	25	x 1.00	0
CONTROLLER	1	x	100	100	x 1.00	100
VEHICLE DET.	4	x	84	5	x 0.05	20
FLASHER					x 0.50	
ENERGY COSTS TO:					TOTAL =	170.4

CALL CCHD FOR BILLING INFORMATION AT (312) 603-1730.

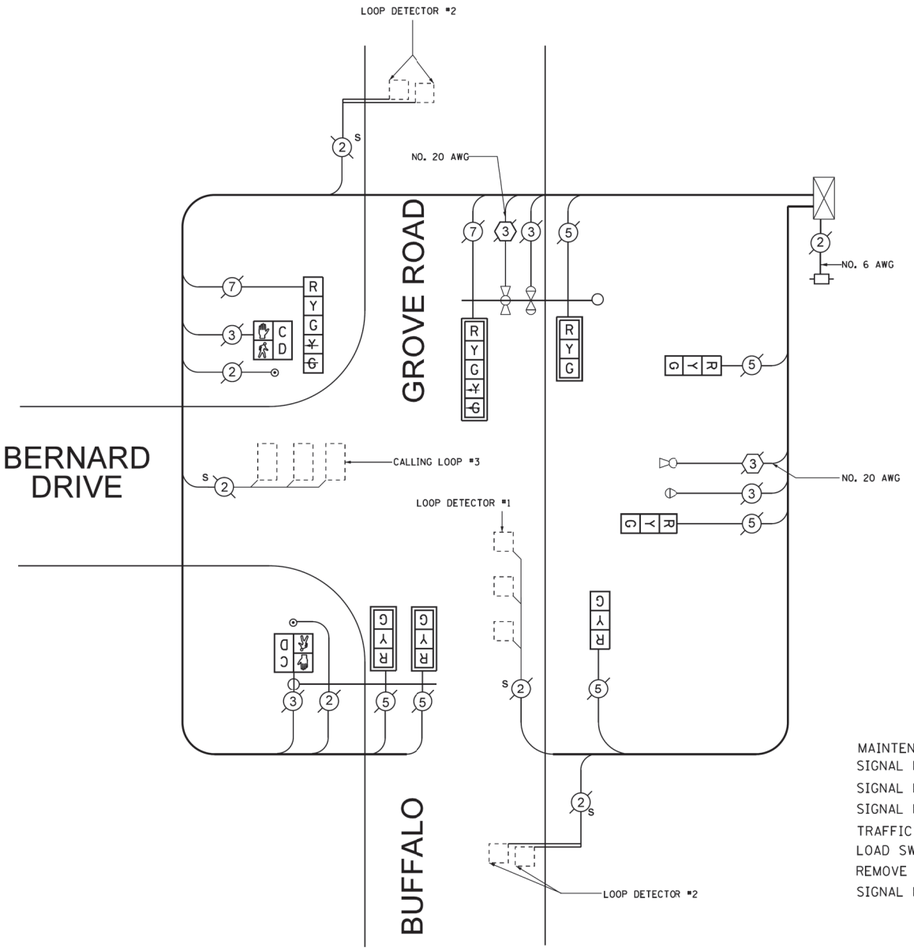
ENERGY SUPPLY CONTACT: ComEd
PHONE: (866)-639-3532
COMPANY: ComEd

SIGNAL FACES



SIGNAL LENSES

R	RED
Y	YELLOW
G	GREEN
Y	YELLOW TURN INDICATOR
G	GREEN TURN INDICATOR



CABLE PLAN LEGEND

	PROPOSED	EXISTING
CONTROLLER CABINET		
SERVICE INSTALLATION		
8" (200mm) TRAFFIC SIGNAL SECTION	R	R
12" (300mm) TRAFFIC SIGNAL SECTION	R	R
12" (300mm) PEDESTRIAN SIGNAL SECTION	W	W
DENOTES NUMBER OF CONDUCTORS ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE TWISTED AND SHIELDED.	2	2
TELEPHONE INSTALLATION	T	T
VEHICLE DETECTOR, INDUCTION LOOP		
SHIELDED & TWISTED	S	S
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIRMATION BEACON		
OPTICOM CABLE, NO. 20	3	3
16" (406mm) x 18" (457mm) PEDESTRIAN COUNTDOWN SIGNAL HEAD	C D	C D
PUSHBUTTON DETECTOR		
SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.	R Y G "P"	R Y G "P"
GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), CONTROLLER (C), SERVICE (S), POST (P), OR MAST ARM POLE (MA).		
FIBER OPTIC CABLE, NO. 62.5/125 MULTIMODE 12 FIBERS AND SINGLE MODE 12 FIBERS	24	24
UNINTERRUPTIBLE POWER SUPPLY (UPS)	UPS	EUPS

ITEM	UNIT	TOTAL
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	4
LOAD SWITCH	EACH	6
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1

CABLE PLAN

NOT TO SCALE

FOR INFORMATION ONLY

COUNTY OF COOK
DEPARTMENT OF HIGHWAYS

TRAFFIC SIGNAL INSTALLATION
BUFFALOG GROVE ROAD AND BERNARD DRIVE
CABLE PLAN

COMPUTED FL
DRAWN FL
CHECKED PLW/RJW

APPROVED _____ 20 ___
CHIEF ENGINEER

FILE NAME = N:\BuffaloGrove\200385\Traffic\TS-04.CAB.INFO ONLY.dgn

CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

CLIENT: Village of Buffalo Grove

Village of Buffalo Grove
51 RAUPP BOULEVARD
BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

NO.	DATE	NATURE OF REVISION	CHKD.

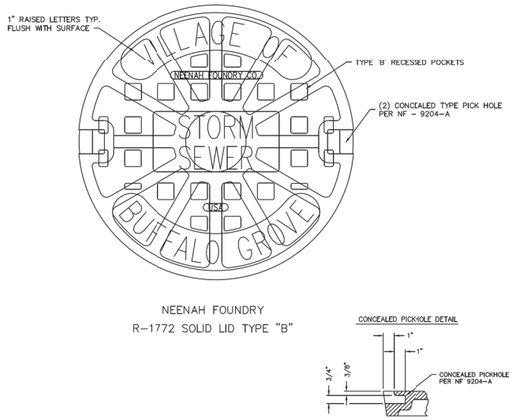
DSGN. VMR
DWN. MAK
CHKD. LMF
USER NAME = jstrick
PLOT DATE = 11/1/2023

TITLE: BERNARD DRIVE TRAFFIC SIGNAL PLANS

SCALE: 1:22.5 | SHEET 4 OF 4 SHEETS | STA. TO STA.

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 46 OF 97

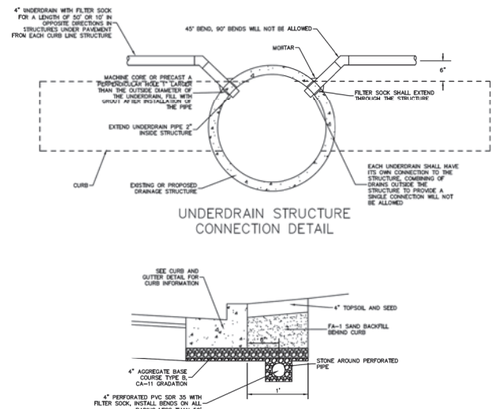
EXHIBIT NO. 201



STORM SEWER MANHOLE LID DETAIL

Prepared by the Village Engineering Division

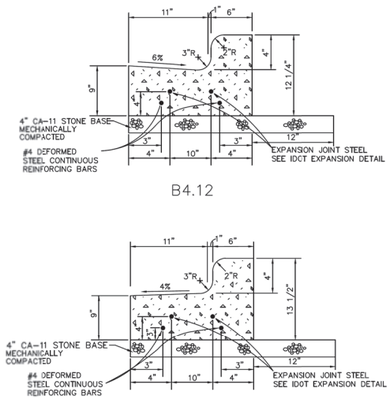
EXHIBIT NO. 203



SUBSURFACE DRAINAGE DETAIL

Prepared by the Village Engineering Division

EXHIBIT NO. 501



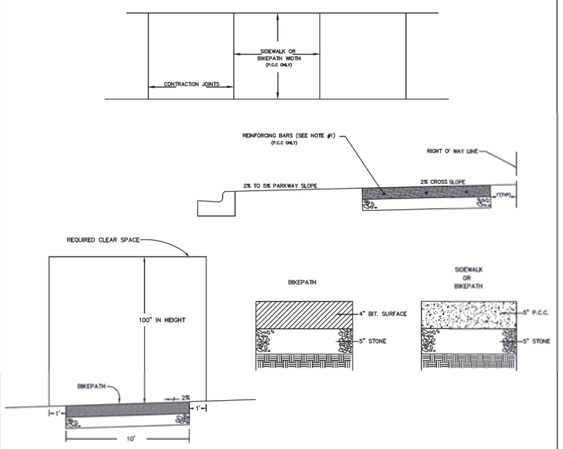
B4.12 CURB AND GUTTER DETAIL

NOTE:

1. SET EXPANSION JOINTS AT ALL PC'S, PT'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



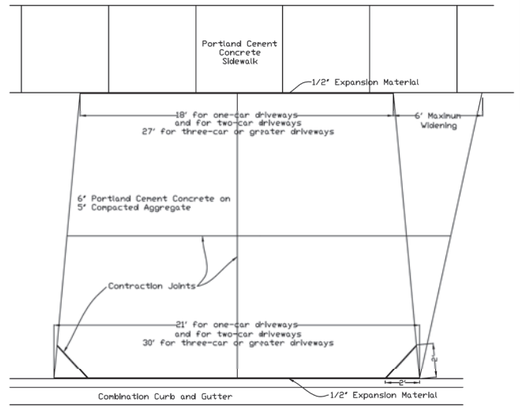
BIKEPATH & SIDEWALK DETAIL

NOTE:

1. AT ALL TRENCH CROSSINGS, 3 - 10' X 3/4" REINFORCING BARS SHALL BE PLACED EQUALLY SPACED AND CENTERED OVER THE TRENCH.
2. CONCRETE THICKNESS SHALL BE 6" AT ALL DRIVEWAYS AND TRENCH CROSSINGS.
3. SET 3/4" EXPANSION JOINTS AT 50' MAX. SPACING INTERVALS.
4. SIDEWALK WIDTH AS SHOWN ON PLANS.
5. CURB RAMPS SHALL COMPLY WITH LATEST ACCESSIBILITY STANDARDS.

Prepared by the Village Engineering Division

EXHIBIT NO. 503

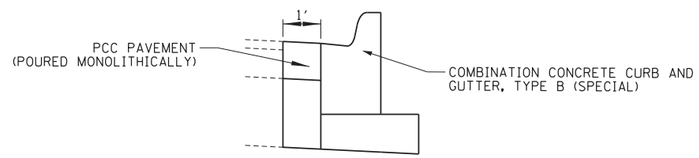


DRIVEWAY APRON DETAIL

NOTE:

1. Contraction joint depth shall be 1-1/4" minimum.
2. Contraction joint shall divide the apron into slabs approximately square with no side longer than 15'.
3. Minimum apron width is 10' at the sidewalk.

Prepared by the Village Engineering Division



CURB TRANSITION DETAIL

EAST END PROJECT LIMITS
(BUFFALO GROVE ROAD)

NOTE: PCC PAVEMENT SHALL BE INCLUDED IN THE COST OF COMBINATION CONCRETE CURB AND GUTTER, TYPE B (SPECIAL)

FILE NAME = N:\BuffaloGrove\2003B5\Civil\VBG-sht-CI_DET_01.dgn

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9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

CLIENT: Village of Buffalo Grove
51 RAUPP BOULEVARD
BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

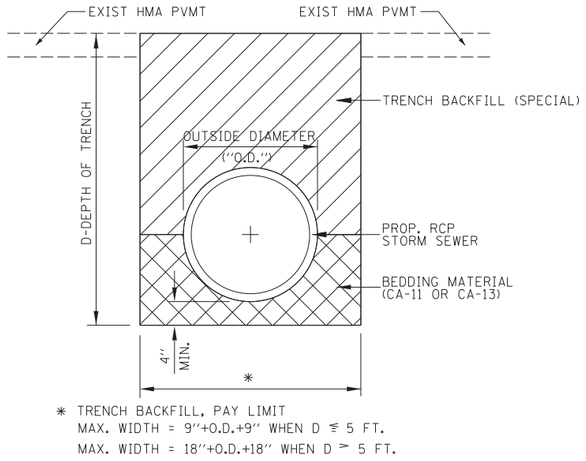
NO.	DATE	NATURE OF REVISION	CHKD.

DSGN.	VMR
DWN.	MAK
CHKD.	LMF
USER NAME	= jstrick
PLOT DATE	= 11/1/2023

TITLE: **BERNARD DRIVE CONSTRUCTION DETAILS**

SCALE: 1:20 | SHEET 1 OF 1 SHEETS | STA. | TO STA.

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 47 OF 97

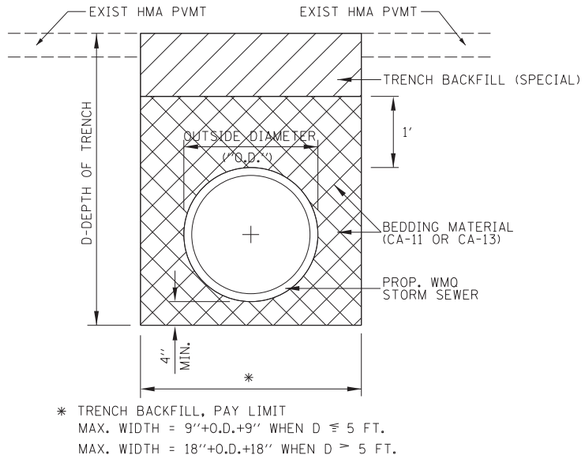


* TRENCH BACKFILL, PAY LIMIT
MAX. WIDTH = 9"+O.D.+9" WHEN D ≤ 5 FT.
MAX. WIDTH = 18"+O.D.+18" WHEN D > 5 FT.

TRENCH BACKFILL DETAIL FOR RCP STORM SEWER IN PAVEMENT

NOTES:

1. IF THE TRENCH IS EXCAVATED WIDER THAN SHOWN IN THIS DETAIL, ADDITIONAL TRENCH BACKFILL WILL NOT BE MEASURED FOR PAYMENT
2. PLACE TRENCH BACKFILL TO TOP OF TRENCH
3. REMOVAL OF TRENCH BACKFILL TO ACCOMMODATE CLASS D PATCHES/PROPOSED PAVEMENT WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE WORK

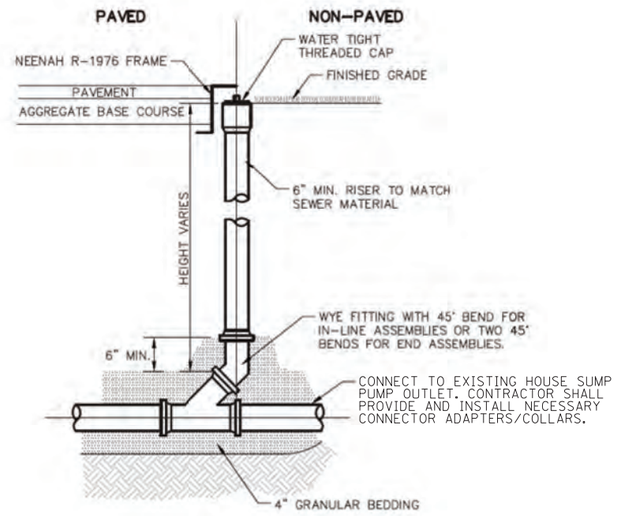


* TRENCH BACKFILL, PAY LIMIT
MAX. WIDTH = 9"+O.D.+9" WHEN D ≤ 5 FT.
MAX. WIDTH = 18"+O.D.+18" WHEN D > 5 FT.

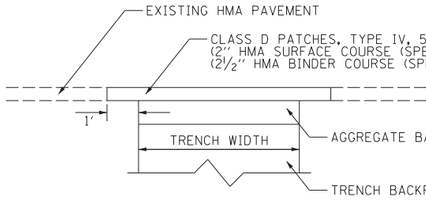
TRENCH BACKFILL DETAIL FOR WMQ STORM SEWER IN PAVEMENT

NOTES:

1. IF THE TRENCH IS EXCAVATED WIDER THAN SHOWN IN THIS DETAIL, ADDITIONAL TRENCH BACKFILL WILL NOT BE MEASURED FOR PAYMENT
2. PLACE TRENCH BACKFILL TO TOP OF TRENCH
3. REMOVAL OF TRENCH BACKFILL TO ACCOMMODATE CLASS D PATCHES/PROPOSED PAVEMENT WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE WORK

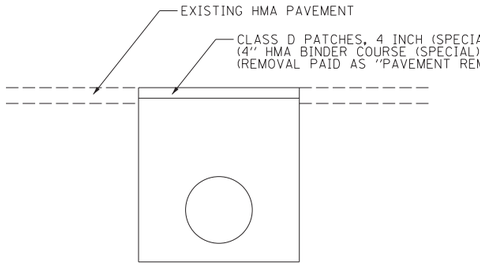


SUMP PUMP LINE CONNECTION DETAIL



PERMANENT PAVEMENT PATCH DETAIL

(AT GLENDALE RD, DIANE DR, LAUREN LN STORM SEWER)

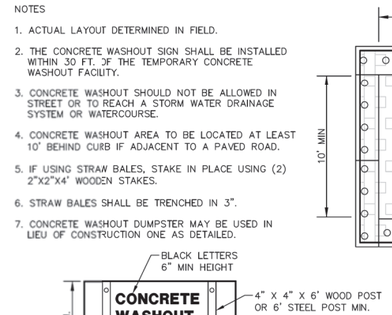


TEMPORARY PAVEMENT PATCH DETAIL

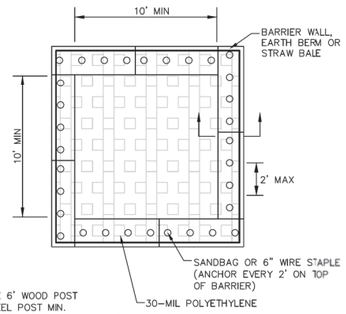
(AT STORM SEWER LATERALS AND AS DIRECTED BY THE ENGINEER)

NOTES

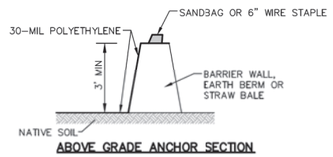
1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. CONCRETE WASHOUT SHOULD NOT BE ALLOWED IN STREET OR TO REACH A STORM WATER DRAINAGE SYSTEM OR WATERCOURSE.
4. CONCRETE WASHOUT AREA TO BE LOCATED AT LEAST 10' BEHIND CURB IF ADJACENT TO A PAVED ROAD.
5. IF USING STRAW BALES, STAKE IN PLACE USING (2) 2"X2"X4' WOODEN STAKES.
6. STRAW BALES SHALL BE TRENCHED IN 3".
7. CONCRETE WASHOUT DUMPSTER MAY BE USED IN LIEU OF CONSTRUCTION ONE AS DETAILED.



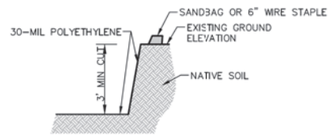
CONCRETE WASHOUT SIGN DETAIL
(OR EQUIVALENT)



PLAN VIEW



ABOVE GRADE ANCHOR SECTION



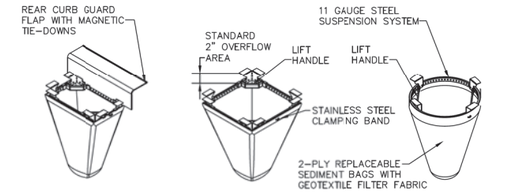
SUBGRADE ANCHOR SECTION

MAINTENANCE:

1. DRIED CONCRETE WASTE SHALL BE PICKED UP AND DISPOSED OF PROPERLY WHEN 75% OF CAPACITY IS REACHED.
2. HARDENED CONCRETE CAN BE PROPERLY RECYCLED AND REUSED ONSITE OR HAULED OFF-SITE TO AN APPROPRIATE FACILITY.

03.15.2016

CONCRETE WASHOUT



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 (2ft³/min vol)		Non-Woven	Woven Mono
Grab Tensile	ASTM D 4632	100 lbs	200 lbs
Puncture Strength	ASTM D 4833	65 lbs	90 lbs
Trapezoidal Tear	ASTM D 4535	45 lbs	75 lbs
UV Resistance	ASTM D 4355	70% at 500 hrs	90%
App. Open Size (AOS)	ASTM D 4751	70 sieve (.212 mm)	40 sieve (.425 mm)
Permittivity	ASTM D 4491	2.0/sec.	2.1/sec
Water Flow Rate	ASTM D 4491	145 gpm/sqft.	145gpm/sqft
> Polyester Outer Reinforcement Bag Specifications			
Weight	ASTM D 3776	4.55 oz/sqyd +/-15%	
Thickness	ASTM D 1777	.040 +/- .005	
> Frame Construction			
A36 Structural Steel; 11 Gauge, Zinc Plated	ASTM A 576	Tensile Strength > 58,000 psi Yield Strength > 36,000 psi	

MAINTENANCE
1. CLEAN OUT AFTER EVERY RAIN EVENT

ACCEPTABLE MANUFACTURER'S AS LISTED BELOW:

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

03.15.2016

INLET FILTER BASKET DETAIL

FILE NAME = N:\Buffalo Grove\200385\Civil\MBG-sht-C1_DET_02.dgn

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9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
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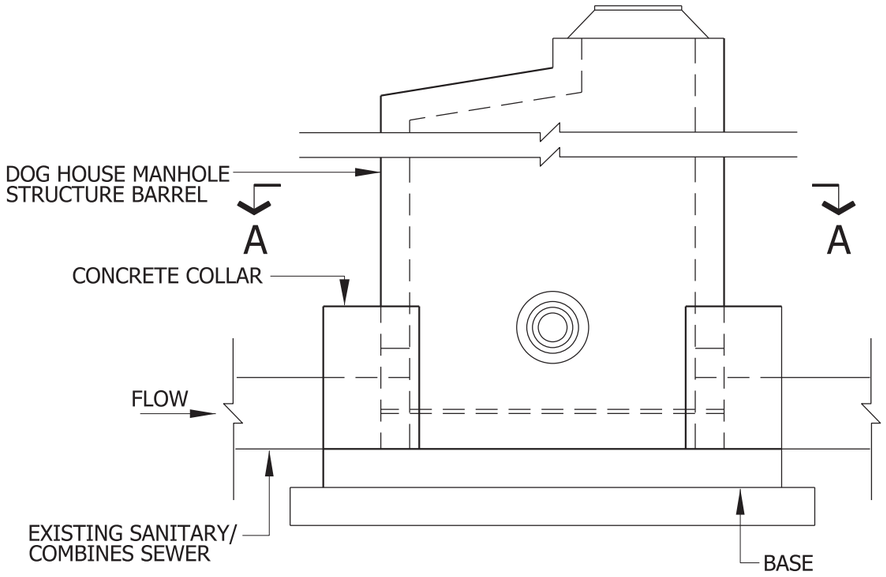
DSGN.	VMR
DWN.	MAK
CHKD.	LMF
USER NAME	= jstrick
PLOT DATE	= 11/1/2023

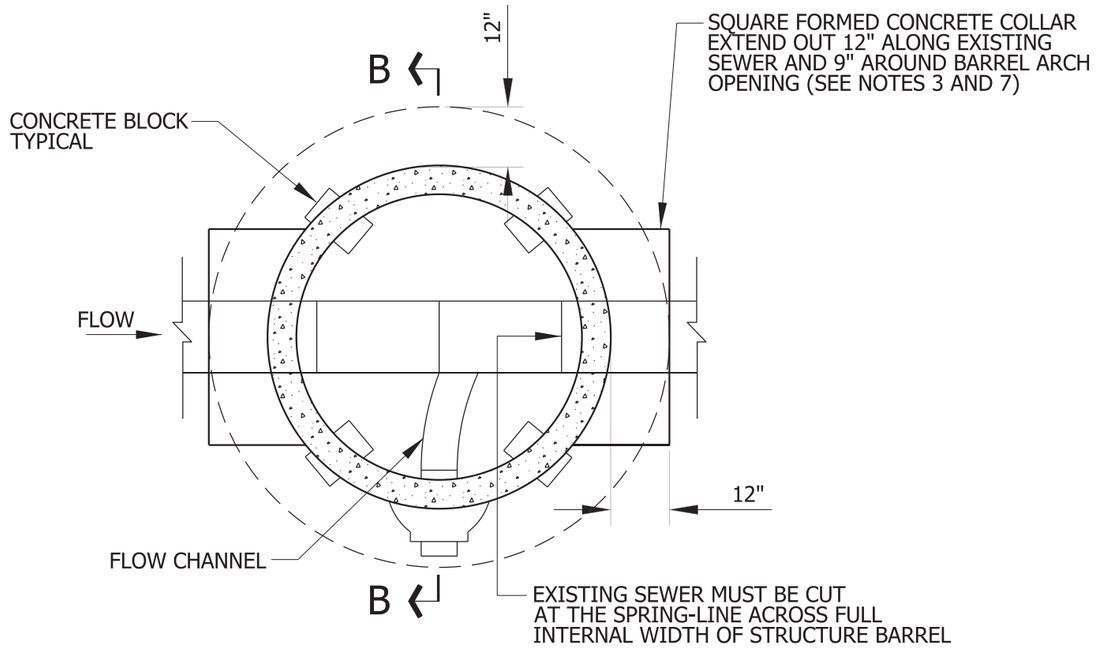
TITLE: **BERNARD DRIVE CONSTRUCTION DETAILS**

SCALE: 1:20 | SHEET 1 OF 2 SHEETS | STA. TO STA.

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 48 OF 97



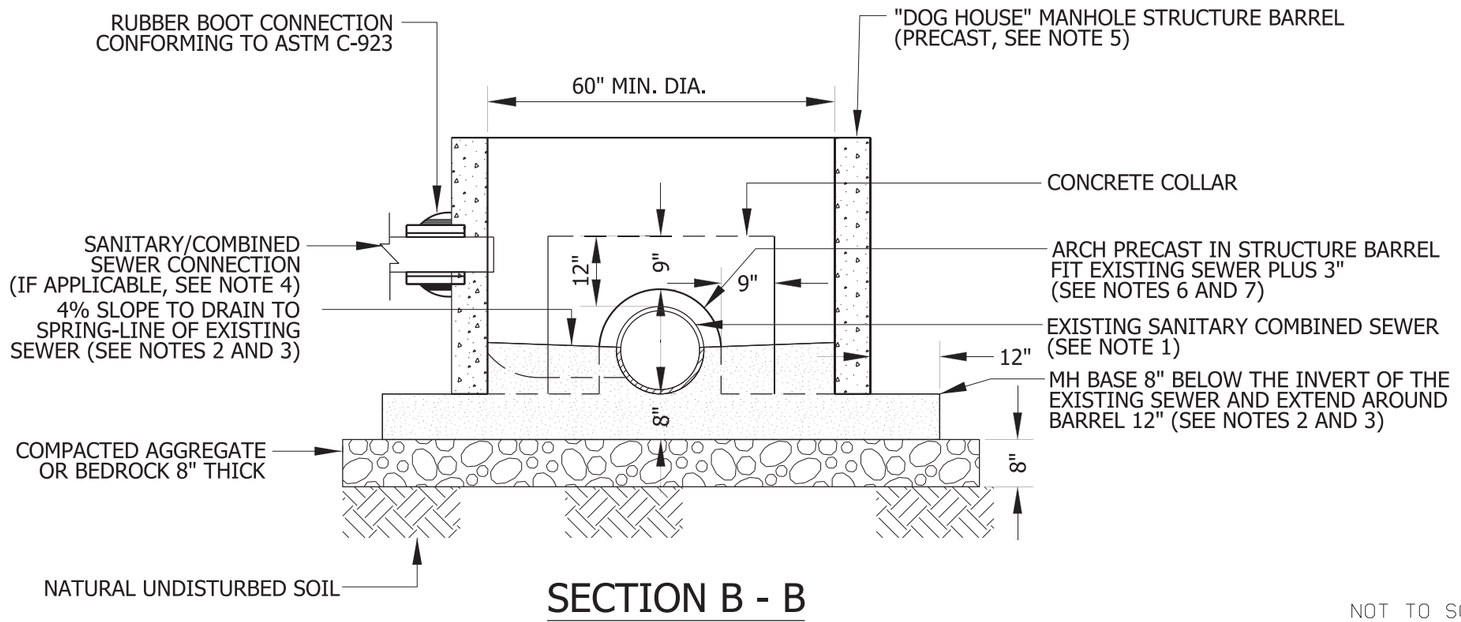
DOG HOUSE MANHOLE PROFILE



SECTION A - A

NOTES:

1. EXISTING SANITARY OR COMBINED SEWER MUST BE 15" DIAMETER OR LARGER FOR "DOG HOUSE" MANHOLE USE.
2. INTEGRAL POUR FOR BASE AND BENCH. (NO PRECAST BASE)
3. ALL POURED-IN-PLACE CONCRETE MUST BE 4000 PSI NON-SHRINK MIX.
4. EXTERNAL DROP CONNECTION MUST BE PROVIDED IF INVERT OF CONNECTING SEWER IS 24" OR MORE ABOVE THE INVERT OF OUTLET (SEE SEPARATE MWRD STANDARD DROP DETAIL).
5. MANHOLE DIAMETER MINIMUM 60"-INCREASES BASED ON THE EXISTING SEWER DIAMETER.
6. CONCRETE BONDING AGENT MUST BE APPLIED TO ALL INTERFACES OF PRECAST CONRETE SURFACES WITH POURED-IN-PLACE CONCRETE.
7. A CURVED INTERNAL ARCH FORM MUST BE USED DURING COLLAR CONCRETE FILL. NO BRICK, MORTAR, OR DEBRIS IS TO BE USED IN PLACE OF CONSOLIDATED CONCRETE.
8. DEBRIS MUST NOT BE ALLOWED TO ENTER THE SEWER SYSTEM AT ANY TIME DURING CONSTRUCTION.
9. ALL DIMENSIONS NOTED ARE MINIMUM ALLOWED.
10. THE STRUCTURE MUST NOT BE BACKFILLED FOR A MINIMUM OF 24 HOURS AFTER CONSTRUCTION.
11. PUMPING IN LIEU OF "DOG HOUSE" MANHOLE UPON ENGINEER AND INSPECTOR APPROVAL.



SECTION B - B

NOT TO SCALE

TECHNICAL GUIDANCE MANUAL

7/1/15

DOG HOUSE MANHOLE

STD. DWG. NO.32

PAGE NO. 33

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9575 W. Higgins Road, Suite 600
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BUFFALO GROVE, ILLINOIS 60089
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NO.	DATE	NATURE OF REVISION	CHKD.

DSGN. VMR
DWN. MAK
CHKD. LMF
USER NAME = jsitrick
PLOT DATE = 11/1/2023

TITLE: BERNARD DRIVE
MWRD SANITARY SEWER DETAILS

SCALE: 1:20 | SHEET 1 OF 2 SHEETS | STA. | TO STA.

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 49 OF 97

FILE NAME = N:\Buffalo Grove\200385\Civil\VBG-sht-CLDET_03.dgn

A. REFERENCED SPECIFICATIONS

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE FOLLOWING, EXCEPT AS MODIFIED HEREIN OR ON THE PLANS:
   * STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT SS) FOR ALL IMPROVEMENTS EXCEPT SANITARY SEWER AND WATER MAIN CONSTRUCTION;
   * STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION (SSWS) FOR SANITARY SEWER AND WATER MAIN CONSTRUCTION;
   * VILLAGE OF BUFFALO GROVE MUNICIPAL CODE;
   * THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (MWRD) WATERSHED MANAGEMENT ORDINANCE AND TECHNICAL GUIDANCE MANUAL;
   * IN CASE OF CONFLICT BETWEEN THE APPLICABLE ORDINANCES NOTED, THE MORE STRINGENT SHALL TAKE PRECEDENCE AND SHALL CONTROL ALL CONSTRUCTION.

B. NOTIFICATIONS

1. THE MWRD LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK (CALL 708-588-4055 OR SEND EMAIL NOTIFICATION WITH PROJECT NAME, LOCATION AND PERMIT NUMBER TO WMOJOBSTART@MWRD.ORG).

2. THE VILLAGE OF BUFFALO GROVE ENGINEERING DEPARTMENT AND PUBLIC MUST BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION AND PRIOR TO EACH PHASE OF WORK. CONTRACTOR SHALL DETERMINE ITEMS REQUIRING INSPECTION PRIOR TO START OF CONSTRUCTION OR EACH WORK PHASE.

3. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION FOR THE EXACT LOCATIONS OF UTILITIES AND FOR THEIR PROTECTION DURING CONSTRUCTION. IF EXISTING UTILITIES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, IMMEDIATELY NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED. CALL J.U.L.I.E. AT 1-800-892-0123.

C. GENERAL NOTES

1. ALL ELEVATIONS SHOWN ON PLANS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). CONVERSION FACTOR IS _____ FT.

2. MWRD, THE MUNICIPALITY AND THE OWNER OR OWNER'S REPRESENTATIVE SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION IMPROVEMENTS.

3. THE CONTRACTOR(S) SHALL INDEMNIFY THE OWNER, ENGINEER, MUNICIPALITY, MWRD, AND THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, OR TESTING OF THIS WORK ON THE PROJECT.

4. THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY MWRD AND THE MUNICIPALITY UNLESS CHANGES ARE APPROVED BY MWRD, THE MUNICIPALITY, OR AUTHORIZED AGENT. THE CONSTRUCTION DETAILS, AS PRESENTED ON THE PLANS, MUST BE FOLLOWED. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED ON THE IMPROVEMENTS INDICATED ON THE PLANS.

5. THE LOCATION OF VARIOUS UNDERGROUND UTILITIES WHICH ARE SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND REPRESENT THE BEST KNOWLEDGE OF THE ENGINEER. VERIFY LOCATIONS AND ELEVATIONS PRIOR TO BEGINNING THE CONSTRUCTION OPERATIONS.

6. ANY EXISTING PAVEMENT, SIDEWALK, DRIVEWAY, ETC., DAMAGED DURING CONSTRUCTION OPERATIONS AND NOT CALLED FOR TO BE REMOVED SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.

7. MATERIAL AND COMPACTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPALITY, MWRD, AND OWNER.

8. THE UNDERGROUND CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS TO NOTIFY ALL INSPECTION AGENCIES.

9. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS DISTURBED DURING CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO FINAL INSPECTION.

10. RECORD DRAWINGS SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER AS SOON AS UNDERGROUND IMPROVEMENTS ARE COMPLETED. FINAL PAYMENTS TO THE CONTRACTOR SHALL BE HELD UNTIL THEY ARE RECEIVED. ANY CHANGES IN LENGTH, LOCATION OR ALIGNMENT SHALL BE SHOWN IN RED. ALL WYES OR BENDS SHALL BE LOCATED FROM THE DOWNSTREAM MANHOLE. ALL VALVES, B-BOXES, TEES OR BENDS SHALL BE TIED TO A FIRE HYDRANT.

D. SANITARY SEWER

1. THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY POLLUTED WATER, SUCH AS GROUND AND SURFACE WATER, FROM ENTERING THE EXISTING SANITARY SEWERS.

2. A WATER-TIGHT PLUG SHALL BE INSTALLED IN THE DOWNSTREAM SEWER PIPE AT THE POINT OF SEWER CONNECTION PRIOR TO COMMENCING ANY SEWER CONSTRUCTION. THE PLUG SHALL REMAIN IN PLACE UNTIL REMOVAL IS AUTHORIZED BY THE MUNICIPALITY AND/OR MWRD AFTER THE SEWERS HAVE BEEN TESTED AND ACCEPTED.

3. DISCHARGING ANY UNPOLLUTED WATER INTO THE SANITARY SEWER SYSTEM FOR THE PURPOSE OF SEWER FLUSHING OF LINES FOR THE DEFLECTION TEST SHALL BE PROHIBITED WITHOUT PRIOR APPROVAL FROM THE MUNICIPALITY OR MWRD.

4. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION).

5. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.

6. ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.

7. ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO THE FOLLOWING:

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
VITRIFIED CLAY PIPE	ASTM C-700	ASTM C-425
REINFORCED CONCRETE SEWER PIPE	ASTM C-76	ASTM C-443
CAST IRON SOIL PIPE	ASTM A-74	ASTM C-564
DUCTILE IRON PIPE	ANSI A21.51	ANSI A21.11
POLYVINYL CHLORIDE (PVC) PIPE		
6-INCH TO 15-INCH DIAMETER SDR 26	ASTM D-3034	ASTM D-3212
18-INCH TO 27-INCH DIAMETER F/DY=46	ASTM F-679	ASTM D-3212
HIGH DENSITY POLYETHYLENE (HDPE)	ASTM D-3350 ASTM D-3035	ASTM D-3261,F-2620 (HEAT FUSION) ASTM D-3212,F-477 (GASKETED)
WATER MAIN QUALITY PVC		
4-INCH TO 36-INCH	ASTM D-2241	ASTM D-3139
4-INCH TO 12-INCH	AWWA C900	ASTM D-3139
14-INCH TO 48-INCH	AWWA C905	ASTM D-3139

THE FOLLOWING MATERIALS ARE ALLOWED ON A QUALIFIED BASIS SUBJECT TO DISTRICT REVIEW AND APPROVAL PRIOR TO PERMIT ISSUANCE. A SPECIAL CONDITION WILL BE ADDED TO THE PERMIT WHEN THE PIPE MATERIAL BELOW IS USED FOR SEWER CONSTRUCTION OR A CONNECTION IS MADE.

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
POLYPROPYLENE (PP) PIPE		
12-INCH TO 24-INCH DOUBLE WALL	ASTM F-2736	D-3212, F-477
30-INCH TO 60-INCH TRIPLE WALL	ASTM F-2764	D3212, F-477

8. ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), REQUIRES STONE BEDDING WITH STONE ¼ " TO 1" IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO ¼ THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES. MATERIAL SHALL BE CA-7, CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF THE PIPE WHEN USING PVC.

9. NON-SHEAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR PIPE MATERIALS.

10. ALL MANHOLES SHALL BE PROVIDED WITH BOLTED, WATERTIGHT COVERS. SANITARY LIDS SHALL BE CONSTRUCTED WITH A CONCEALED PICKHOLE AND WATERTIGHT GASKET WITH THE WORD "SANITARY" CAST INTO THE LID.

11. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:
    a) A CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SHEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUBWYE SADDLE OR HUB-TEE SADDLE.
    b) REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
    c) WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING "BAND SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.

12. WHENEVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATERMAINS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATER MAIN, THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN STANDARDS OR IT SHALL BE ENCASED WITH A WATER MAIN QUALITY CARRIER PIPE WITH THE ENDS SEALED.

13. ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.

14. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.

15. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE PRECAST "RUBBER BOOTS" THAT CONFORM TO ASTM C-923 FOR ALL PIPE CONNECTIONS. PRECAST SECTIONS SHALL CONSIST OF MODIFIED GROOVE TONGUE AND RUBBER GASKET TYPE JOINTS.

16. ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUG.

17. EXCEPT FOR FOUNDATION/FOOTING DRAINS PROVIDED TO PROTECT BUILDINGS, OR PERFORATED PIPES ASSOCIATED WITH VOLUME CONTROL FACILITIES, DRAIN TILES/FIELD TILES/UNDERDRAINS/PERFORATED PIPES ARE NOT ALLOWED TO BE CONNECTED TO OR TRIBUTARY TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS IN COMBINED SEWER AREAS. CONSTRUCTION OF NEW FACILITIES OF THIS TYPE IS PROHIBITED; AND ALL EXISTING DRAIN TILES AND PERFORATED PIPES ENCOUNTERED WITHIN THE PROJECT AREA SHALL BE PLUGGED OR REMOVED, AND SHALL NOT BE CONNECTED TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS.

18. A BACKFLOW PREVENTER IS REQUIRED FOR ALL DETENTION BASINS TRIBUTARY TO COMBINED SEWERS. REQUIRED BACKFLOW PREVENTERS SHALL BE INSPECTED AND EXERCISED ANNUALLY BY THE PROPERTY OWNER TO ENSURE PROPER OPERATION, AND ANY NECESSARY MAINTENANCES SHALL BE PERFORMED TO ENSURE FUNCTIONALITY. IN THE EVENT OF A SEWER SURCHARGE INTO AN OPEN DETENTION BASIN TRIBUTARY TO COMBINED SEWERS, THE PERMITTEE SHALL ENSURE THAT CLEAN UP AND WASH OUT OF SEWAGE TAKES PLACE WITHIN 48 HOURS OF THE STORM EVENT.

E. EROSION AND SEDIMENT CONTROL

1. THE CONTRACTOR SHALL INSTALL THE EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.

2. EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL PRIOR TO HYDROLOGIC DISTURBANCE OF THE SITE.

3. ALL DESIGN CRITERIA, SPECIFICATIONS, AND INSTALLATION OF EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.

4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

5. INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:
   a) UPON COMPLETION OF INITIAL EROSION AND SEDIMENT CONTROL MEASURES, PRIOR TO ANY SOIL DISTURBANCE.
   b) ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.

6. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE CO-PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.

7. A STABILIZED MAT OF CRUSHED STONE MEETING THE STANDARDS OF THE ILLINOIS URBAN MANUAL SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.

8. CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL AND SHALL BE INSTALLED PRIOR TO ANY ON SITE CONSTRUCTION ACTIVITIES INVOLVING CONCRETE.

9. MORTAR WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ADDITION TO CONCRETE WASHOUT FACILITIES FOR ANY BRICK AND MORTAR BUILDING ENVELOPE CONSTRUCTION ACTIVITIES.

10. TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN. VOLUME CONTROL FACILITIES SHALL NOT BE USED AS TEMPORARY SEDIMENT BASINS.

11. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) DAYS.

12. ALL FLOOD PROTECTION AREAS AND VOLUME CONTROL FACILITIES SHALL, AT A MINIMUM, BE PROTECTED WITH A DOUBLE-ROW OF SILT FENCE (OR EQUIVALENT).

13. VOLUME CONTROL FACILITIES SHALL NOT BE CONSTRUCTED UNTIL ALL OF THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.

14. SOIL STOCKPILES SHALL, AT A MINIMUM, BE PROTECTED WITH PERIMETER SEDIMENT CONTROLS. SOIL STOCKPILES SHALL NOT BE PLACED IN FLOOD PROTECTION AREAS OR THEIR BUFFERS.

15. EARTHEN EMBANKMENT SIDE SLOPES SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL BLANKET.

16. STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY APPROPRIATE SEDIMENT CONTROL MEASURES.

17. THE CONTRACTOR SHALL EITHER REMOVE OR REPLACE ANY EXISTING DRAIN TILES AND INCORPORATE THEM INTO THE DRAINAGE PLAN FOR THE DEVELOPMENT. DRAIN TILES CANNOT BE TRIBUTARY TO A SANITARY OR COMBINED SEWER. DRAIN TILES ALLOWED IN COMBINED SEWER AREA FOR GREEN INFRASTRUCTURE PRACTICES.

18. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE SITE INSPECTOR MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.

19. THE CONTRCTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING AND EXCAVATION FOR THE INSTALLATION OF SANITARY SEWERS, STORM SEWERS, WATERMAINS AS WELL AS THEIR SERVICES AND OTHER APPURTENANCES. ANY TRENCH DEWATERING, WHICH CONTAINS SEDIMENT SHALL PASS THROUGH A SEDIMENT SETTLING POND OR EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE. ALTERNATIVES MAY INCLUDE DEWATERING INTO A SUMP PIT, FILTER BAG OR EXISTING VEGETATED UPSLOPE AREA. SEDIMENT LADEN WATERS SHALL NOT BE DISCHARGE TO WATERWAYS, FLOOD PROTECTION AREAS OR THE COMBINED SEWER SYSTEM.

20. ALL PERMANENT EROSION CONTROL PRACTICES SHALL BE INITIATED WITHIN SEVEN (7) DAYS FOLLOWING THE COMPLETION OF SOIL DISTURBING ACTIVITIES.

21. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED ON A YEAR-ROUND BASIS DURING CONSTRUCTION AND ANY PERIODS OF CONSTRUCTION SHUTDOWN UNTIL PERMANENT STABILIZATION IS ACHIEVED.

22. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION.

23. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, SITE INSPECTOR, OR MWRD.

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TECHNICAL GUIDANCE MANUAL

MWRD GENERAL NOTES

10/13/2022

STD. DWG. NO.18

PAGE NO. 19

CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

CLIENT:

Village of Buffalo Grove
51 RAUPP BOULEVARD
BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

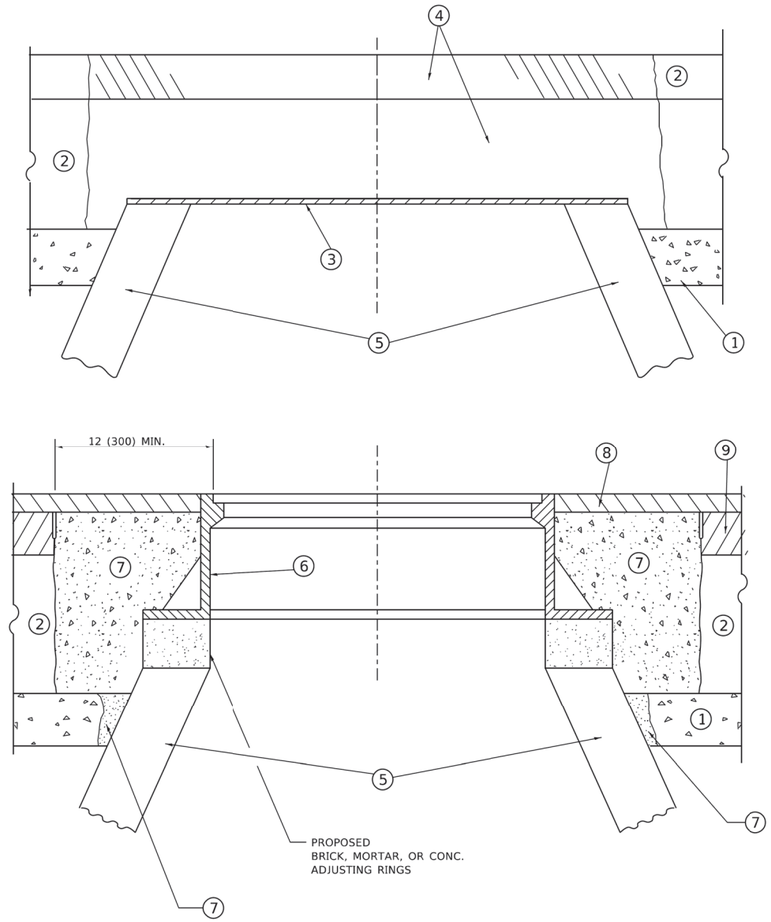
NO.	DATE	NATURE OF REVISION	CHKD.

DSGN. VMR
DWN. MAK
CHKD. LMF
USER NAME = jsirick
PLOT DATE = 11/1/2023

TITLE: **BERNARD DRIVE**
MWRD SANITARY SEWER DETAILS

SCALE: 1:20 | SHEET 2 OF 2 SHEETS | STA. TO STA.

SECTION: 20-00108-01-RS
DATE: 11/1/2023
SHEET 50 OF 97



DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

NOTES

1. EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
2. IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.
3. CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.
4. THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
5. THE CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES BY THE END OF EACH WORK SHIFT.

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
D) BACKFILL WITH CRUSHED STONE AND HMA SURFACE MIX APPROVED BY THE ENGINEER. (MIN. 3 (80) HMA TO REMAIN AFTER MILLING).

STAGE 2 (AFTER PAVEMENT MILLING)

A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-2* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

*UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

1. SUB-BASE GRANULAR MATERIAL
2. EXISTING PAVEMENT
3. 36 (900) DIAMETER METAL PLATE
4. PROPOSED CRUSHED STONE AND HMA SURFACE MIX
5. EXISTING STRUCTURE
6. FRAME AND LID (SEE NOTES)
7. CLASS PP-2* CONCRETE
8. PROPOSED HMA SURFACE COURSE
9. PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT

1. REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."
2. THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.
3. NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.
4. WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

USER NAME = Lawrence.DeManche	DESIGNED - R. SHAH	REVISED - R. BORO 03-09-11	
	DRAWN -	REVISED - R. BORO 12-06-11	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - K. SMITH 11-18-22	
PLOT DATE = 9/15/2023	DATE - 10-25-94	REVISED - K. SMITH 09-15-23	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4045	20-00108-00-RS	COOK	97	51
	BD600-03 (BD-08)	CONTRACT NO. XXXXX		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
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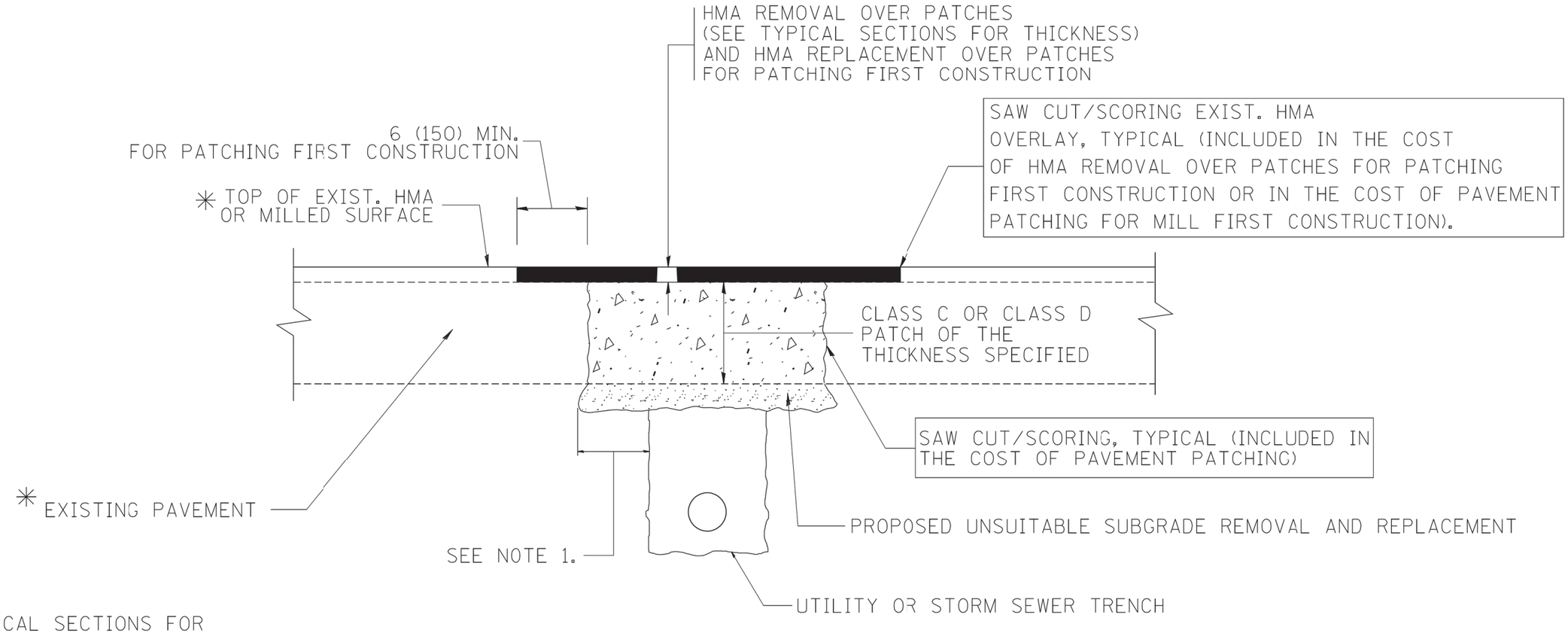

✳ SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST $4\frac{1}{2}$ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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		DRAWN -	REVISED - R. BORO 01-01-07				4045	20-00108-00-RS	COOK	97	52
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - R. BORO 09-04-07				BD400-04 (BD-22)		CONTRACT NO. XXXXX		
	PLOT DATE = 10/27/2008	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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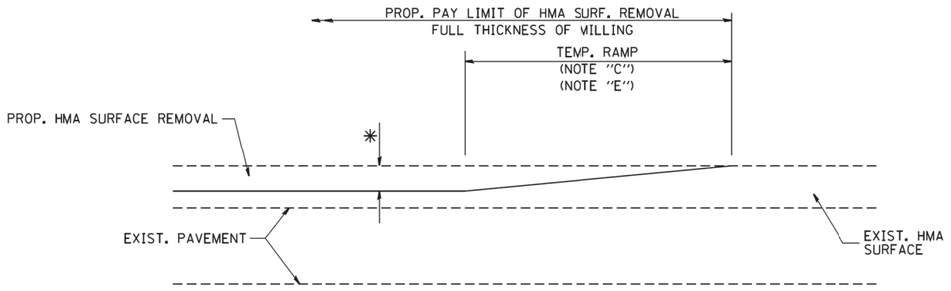
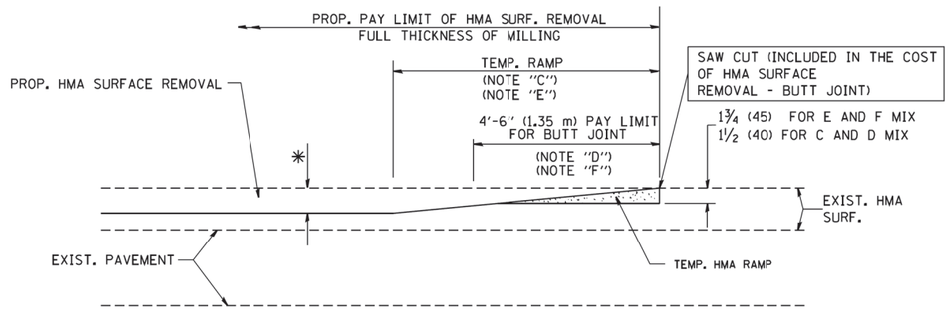


MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

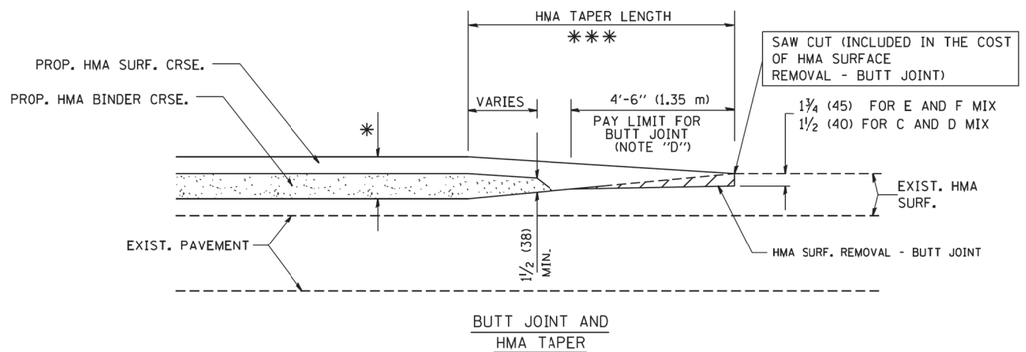


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

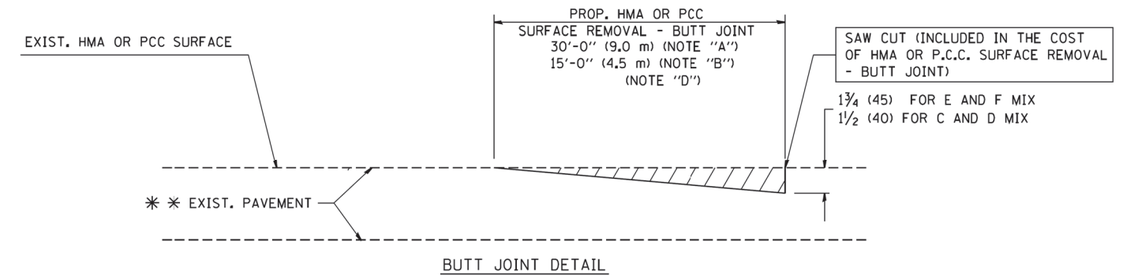
OPTION 2

TYPICAL TEMPORARY RAMP

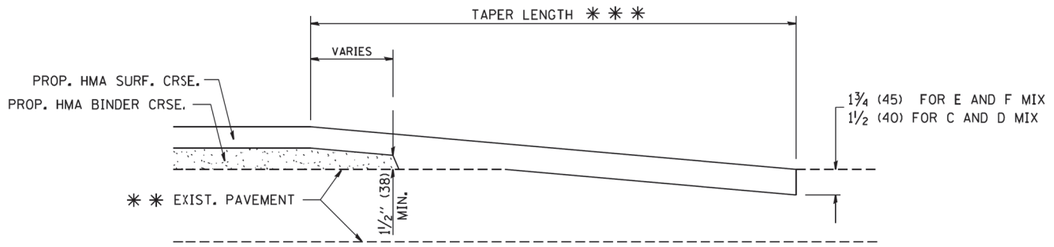


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.

B: MINOR SIDE ROADS.

C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.

D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.

E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.

F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT

G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

* * * 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL EE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\diststd\22x34\bd32.dgn	USER NAME = gaglianobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

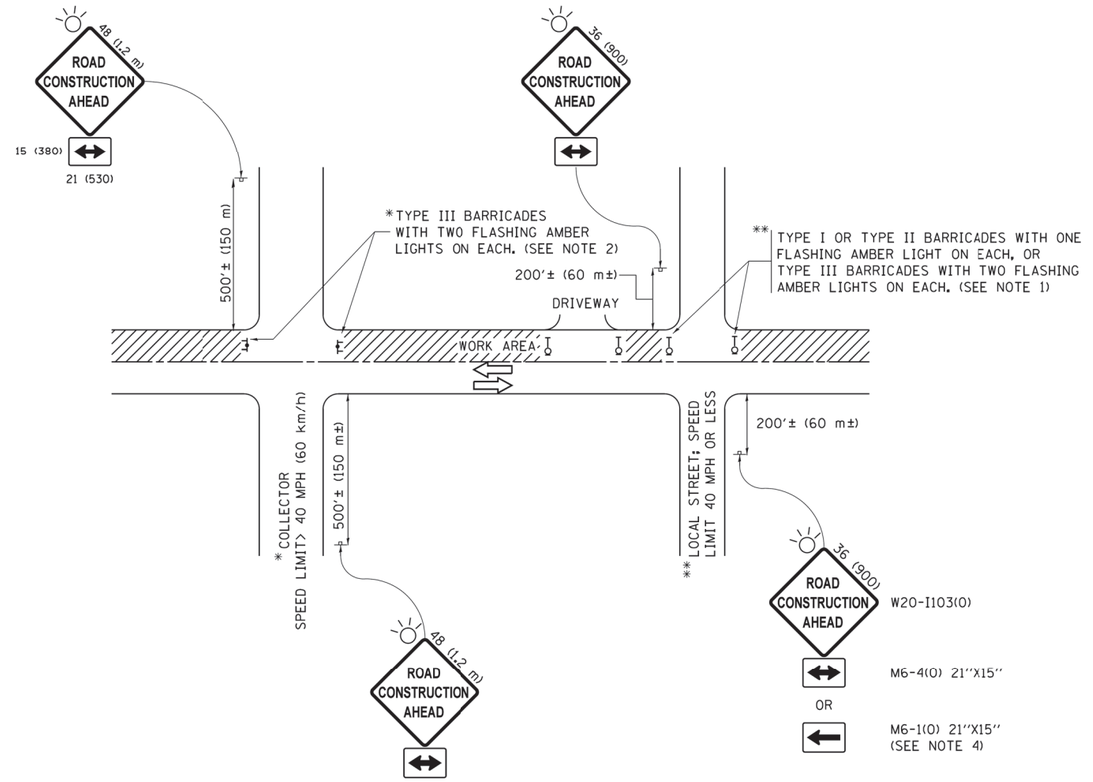
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4045	20-00108-00-RS	COOK	97	53
	BD400-05 BD32	CONTRACT NO. XXXXX		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

FILE NAME N:\BuffaloGrove\200385\Civil\VBG-sht-C1_DistDetail-01.dgn



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
   a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
   a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\District 1\CADData\CADsheets\tc10.dgn	USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
		DRAWN	REVISED -T. RAMMACHER 01-06-00
	PLOT SCALE = 50.000 ' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
Default	PLOT DATE = 9/15/2016	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4045	20-00108-00-RS	COOK	97	54
	TC-10	CONTRACT NO. XXXXX		
	ILLINOIS FED. AID PROJECT			

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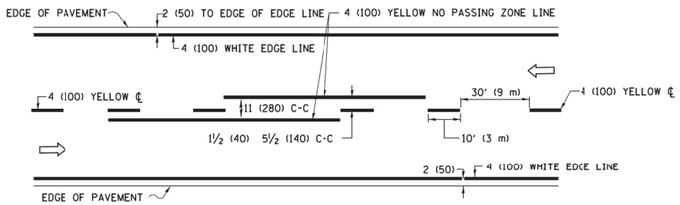
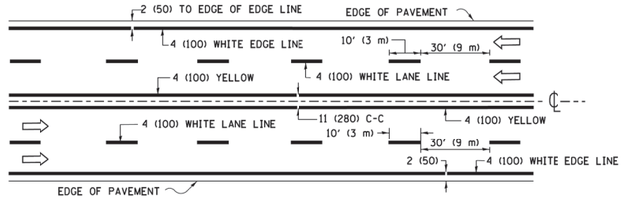
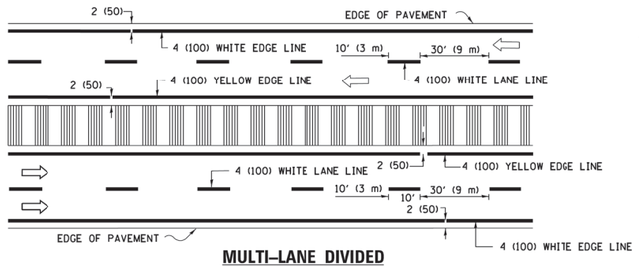


2–LANE ROADWAY

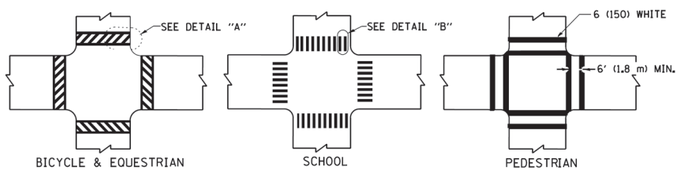


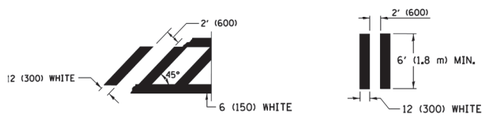
MULTI–LANE UNDIVIDED



MULTI–LANE DIVIDED
WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

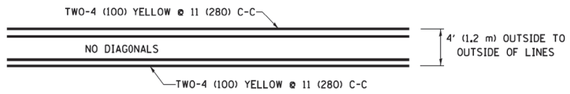




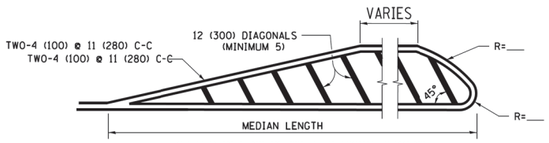
DETAIL "A" **DETAIL "B"**

TYPICAL CROSSWALK MARKING

✳ MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



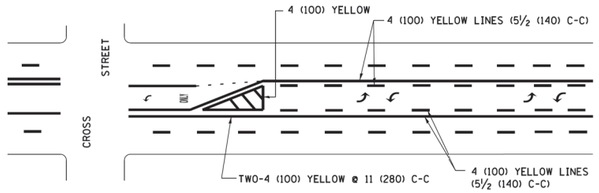
4' (1.2 m) WIDE MEDIANS ONLY



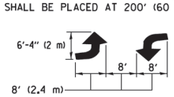
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

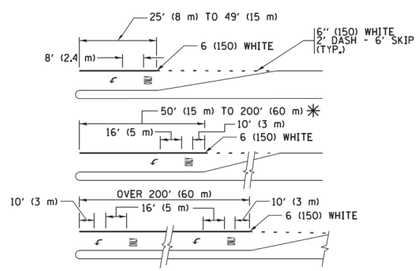


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO–WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

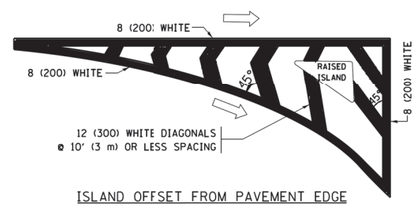


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1.5 m²) **ONLY** AREA = 20.8 SQ. FT. (1.9 m²)

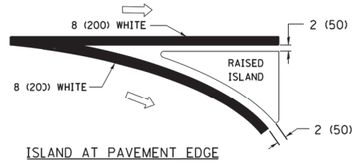
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

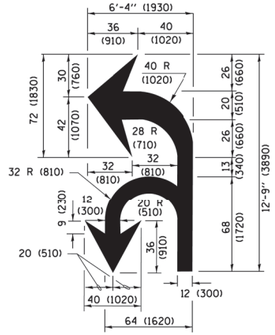


ISLAND OFFSET FROM PAVEMENT EDGE

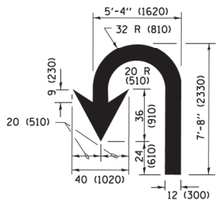


ISLAND AT PAVEMENT EDGE

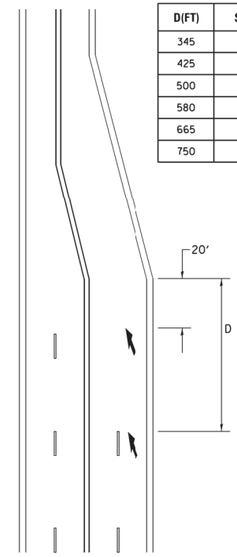
TYPICAL ISLAND MARKING



COMBINATION LEFT AND U–TURN



U–TURN



D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

LANE REDUCTION TRANSITION

✳ LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 ⊠ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 ⊠ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 ⊠ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 ⊠ 6 (150) 12 (300) ⊠ 45° 12 (300) ⊠ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 ⊠ 4 (100) WITH 12 (300) DIAGONALS ⊠ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS ⊠ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) ⊠ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

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	PLOT DATE = 6/23/2017	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4045	20-00108-00-RS	COOK	97	55
	TC-13	CONTRACT NO. XXXXX		
	ILLINOIS FED. AID PROJECT			

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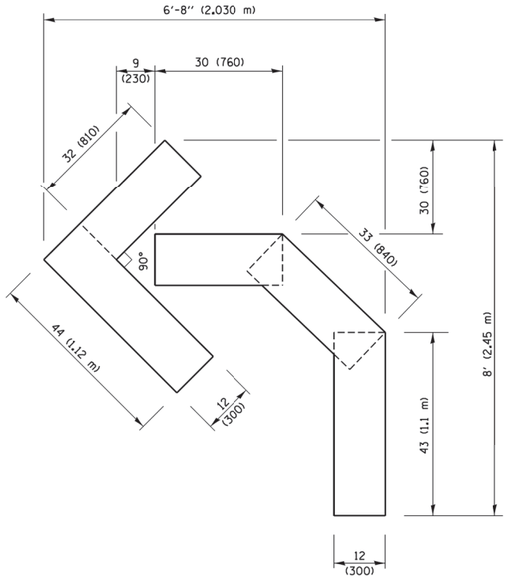
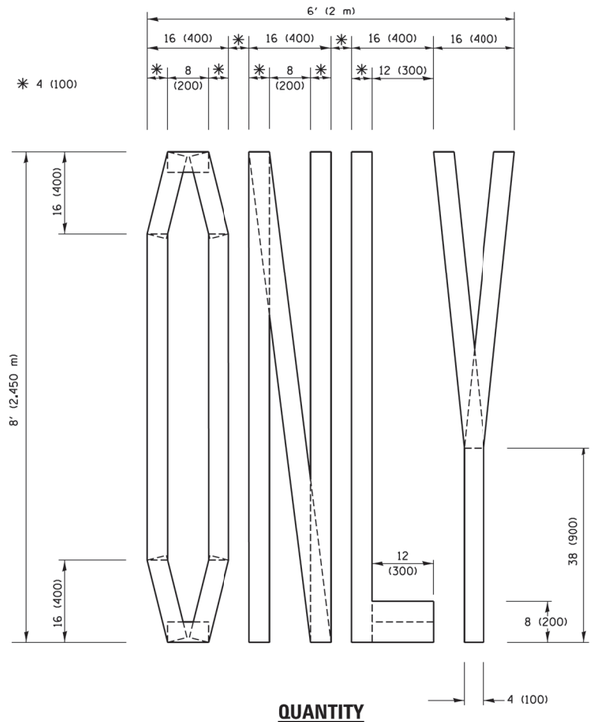


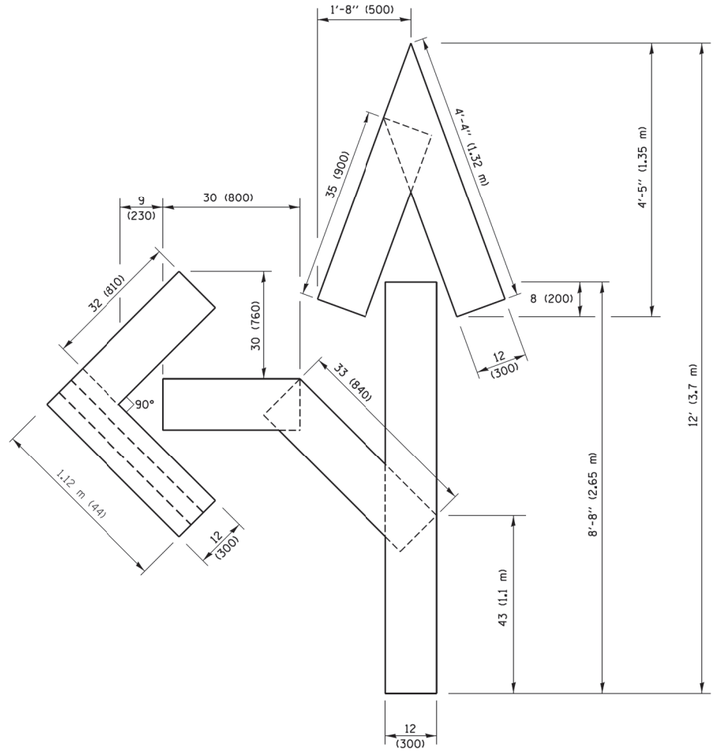
QUANTITY

4 (100) LINE = 45.5 ft. (13.9 m)
15.2 sq. ft. (1.41 sq. m)



QUANTITY

4 (100) LINE = 64.1 ft. (19.5 m)
21.4 sq. ft. (1.99 sq. m)

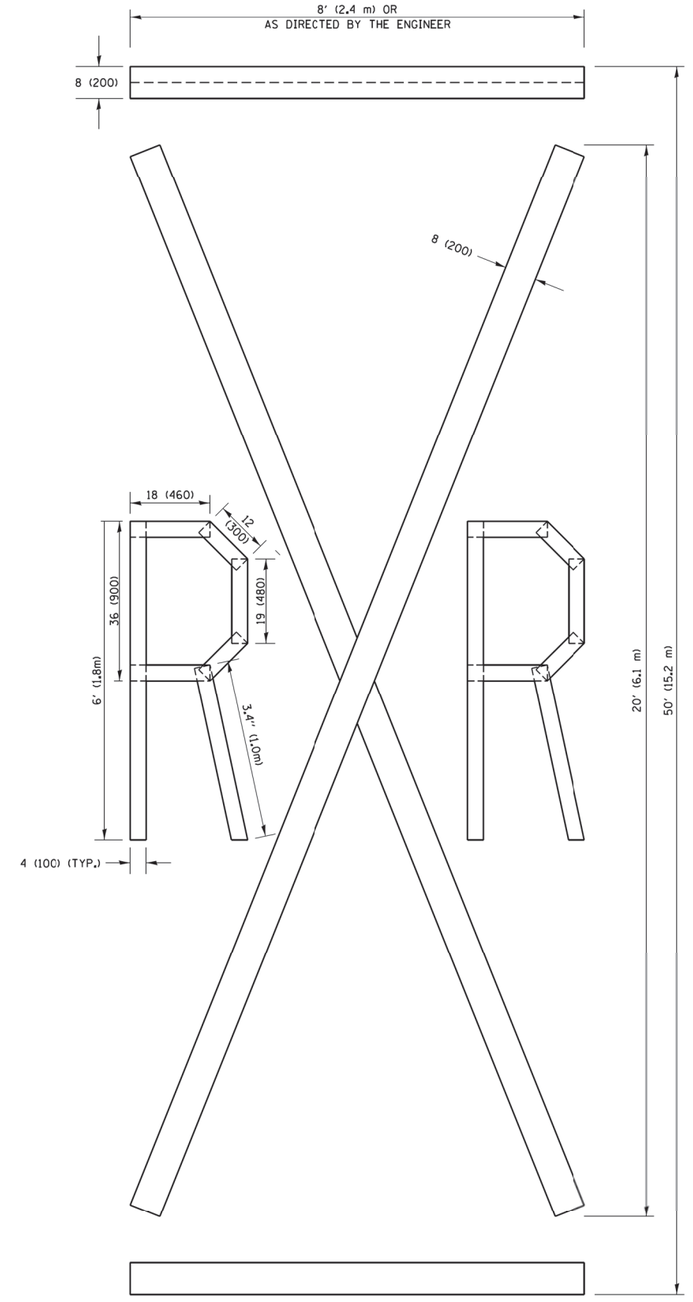


QUANTITY

4 (100) LINE = 82.5 ft. (25.1 m)
27.5 sq. ft. (2.53 sq. m)

NOTE:

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



QUANTITY

4 (100) LINE = 225.9 ft. (68.9 m)
75.3 sq. ft. (6.99 sq. m)

All dimensions are in inches (millimeters) unless otherwise shown.

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	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -E. GOMEZ 08-28-00
	PLOT DATE = 9/15/2016	DATE - 09-18-94	REVISED -A. SCHUETZE 09-15-16

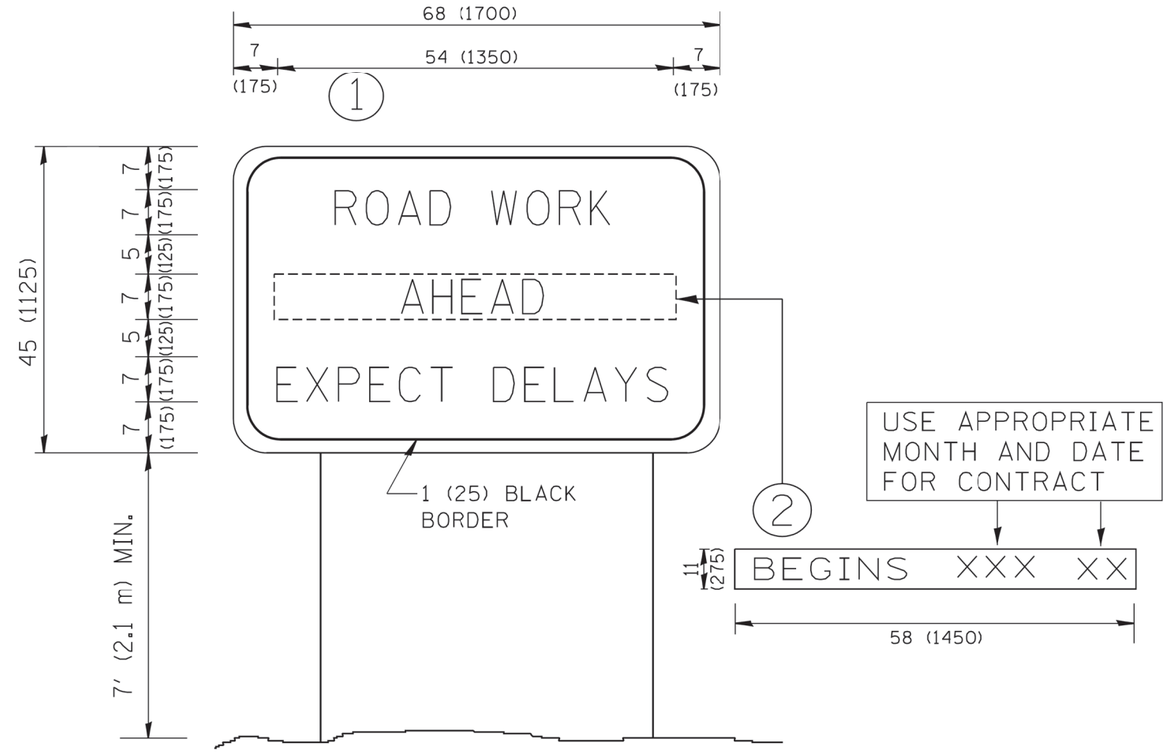
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4045	20-00108-00-RS	COOK	97	56
	TC-16	CONTRACT NO. XXXXX		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

FILE NAME N:\BuffaloGrove\200385\Civil\VBG-sht-C1_DistlDetail-01.dgn



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE ''ROAD CONSTRUCTION AHEAD'' SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRJCTION.
4. REMOVE PANEL (2) SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR ''TEMPORARY INFORMATION SIGNING'' FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\diststd\22x34\tc22.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

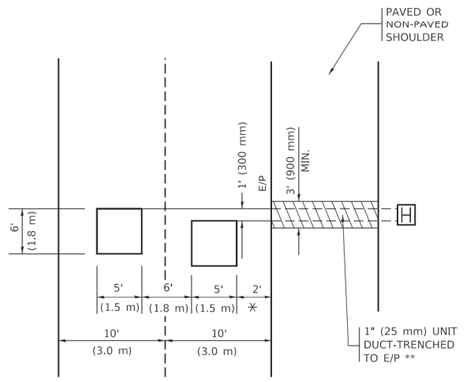
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4045	20-00108-00-RS	COOK	97	57
	TC-22	CONTRACT NO. XXXXX		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

FILE NAME N:\BuffaloGrove\200385\Civil\VBG-sht-C1_DistlDetail-01.dgn

LOOPS NEXT TO SHOULDERS

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.



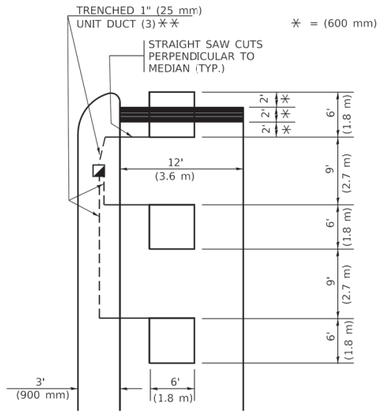
* = (600 mm)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

LEFT TURN LANES WITH MEDIANS

VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH (PROTECTED / PERMITTED LEFT TURN PHASING)

HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



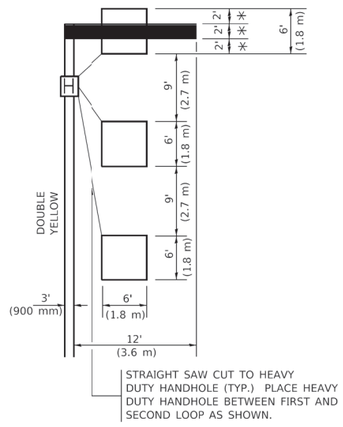
** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

LEFT TURN LANES WITHOUT MEDIANS

VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH (PROTECTED / PERMITTED LEFT TURN PHASING)

* = (600 mm)



NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

NOTES:

VEHICLES LOOP DETECTORS

* ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
* EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
* EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATLY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
* ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
* EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
* WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
* WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

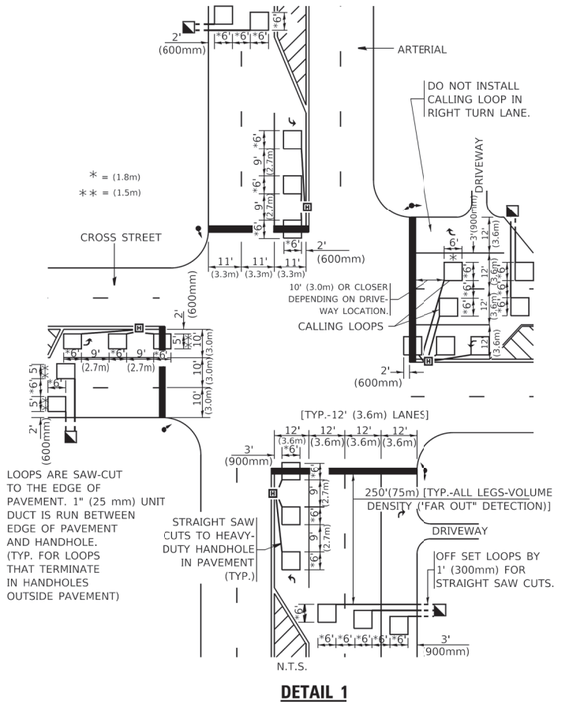
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

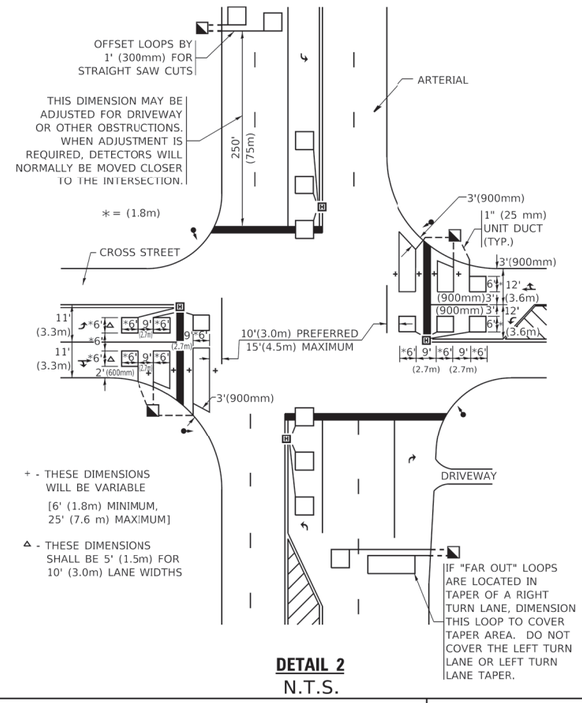
THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("FAR OUT" DETECTION)



DETAIL 1
N.T.S.

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)



DETAIL 2
N.T.S.

USER NAME = footemj	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED - R.K.F.	REVISED -	
PLOT DATE = 3/4/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 – DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4045	20-00108-00-RS	COOK	97	58
	TS–07	CONTRACT NO. XXXXX		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
FILE NAME: pw:\\L0841BIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\Dist\Sd22x34\CADData\CADSheets\ts07.dgn

FILE NAME N:\BuffaloGrove\200385\Civil\VBG-sht-C1_DistlDetail-01.dgn

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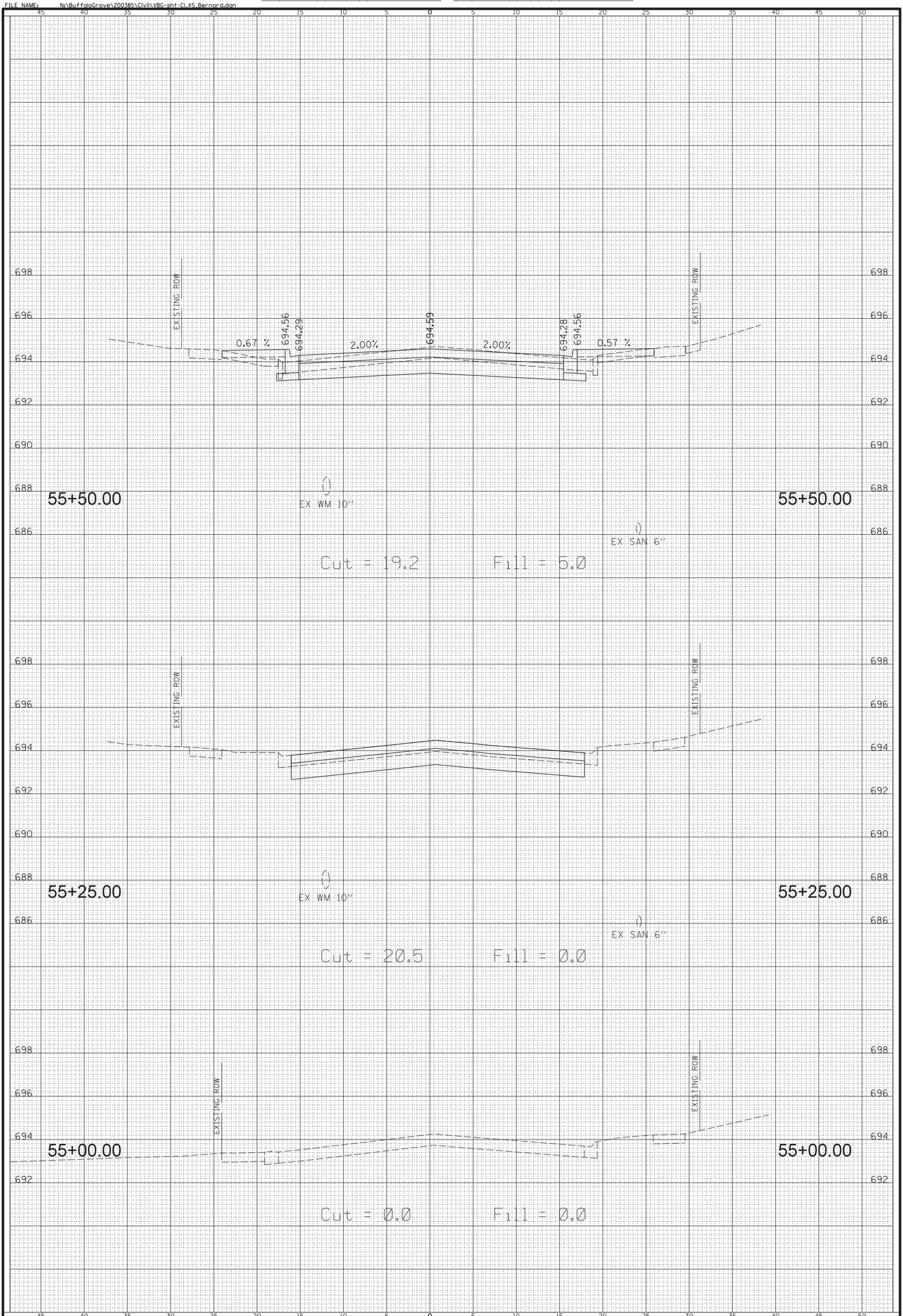
EX SS							
EX SAN							
EX WM							
EX SS2							

	GEOPHI	DRWN	DATE	REV	DATE	CHKD	DESC
PR							
PR SS							
PR SAN							
PR WM							
PR DITCH							
ROW							
CUT							

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CI_XS_Bernard.dgn



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Rosemont, Illinois 60018
(847) 823-0500

CLIENT:

Village of Buffalo Grove
51 RAUPP BOULEVARD
BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

DSGN.	
DWN.	
CHKD.	
SCALE:	HORZ. 5 VERT. 2
PLOT DATE:	11/1/2023
CAD USER:	jsltrick
MODEL:	Default

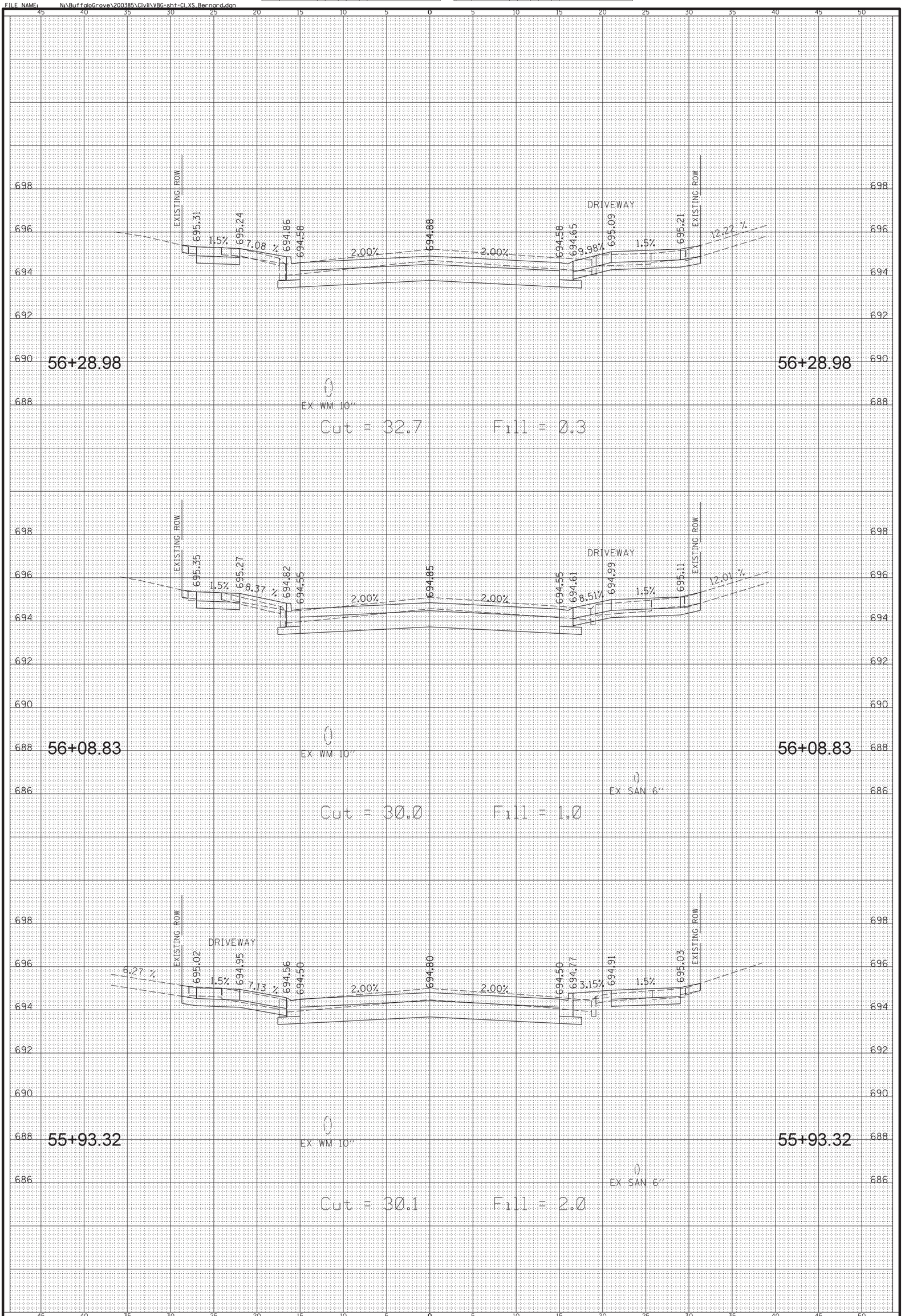
TITLE:

BERNARD DR

STA. 55+00.00 – STA. 55+50.00

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	59 OF 97
DRAWING NO.	XS1

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CI_XS_Bernard.dgn



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DSGN.	
DWN.	
CHKD.	
SCALE:	HORZ. 5 VERT. 2
PLOT DATE:	11/1/2023
CAD USER:	jsltrick
MODEL:	Default

TITLE:

BERNARD DR

STA. 55+93.32 – STA. 56+28.98

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	60 OF 97
DRAWING NO.	XS2

	GEOPHI	DRWN	DATE	REV	DATE	CHKD	DESC
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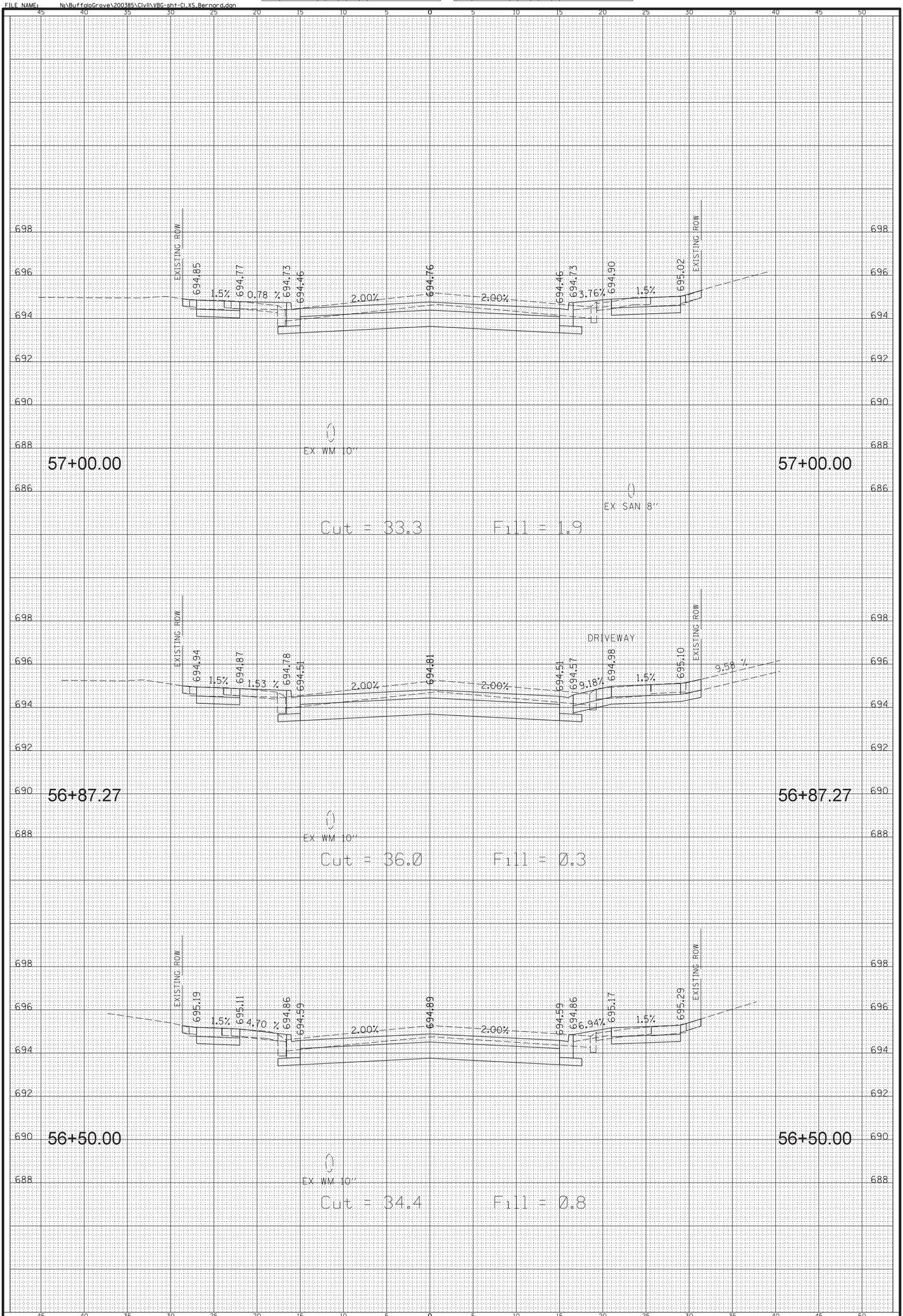
EX SS							
EX SAN							
EX WM							
EX SDS							
EX TEL							

	GEOPHI	DRWN	DATE	REV	DATE	CHKD	DESC
PR							
PR SS							
PR SAN							
PR WM							
PR SDSN							
ROW							
CUT							

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CI_XS_Bernard.dgn



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DSGN.	
DWN.	
CHKD.	
SCALE:	HORZ. 5 VERT. 2
PLOT DATE:	11/1/2023
CAD USER:	jsltrick
MODEL:	Default

TITLE:

BERNARD DR

STA. 56 + 50.00 – STA. 57 + 00.00

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	61 OF 97
DRAWING NO.	XS3

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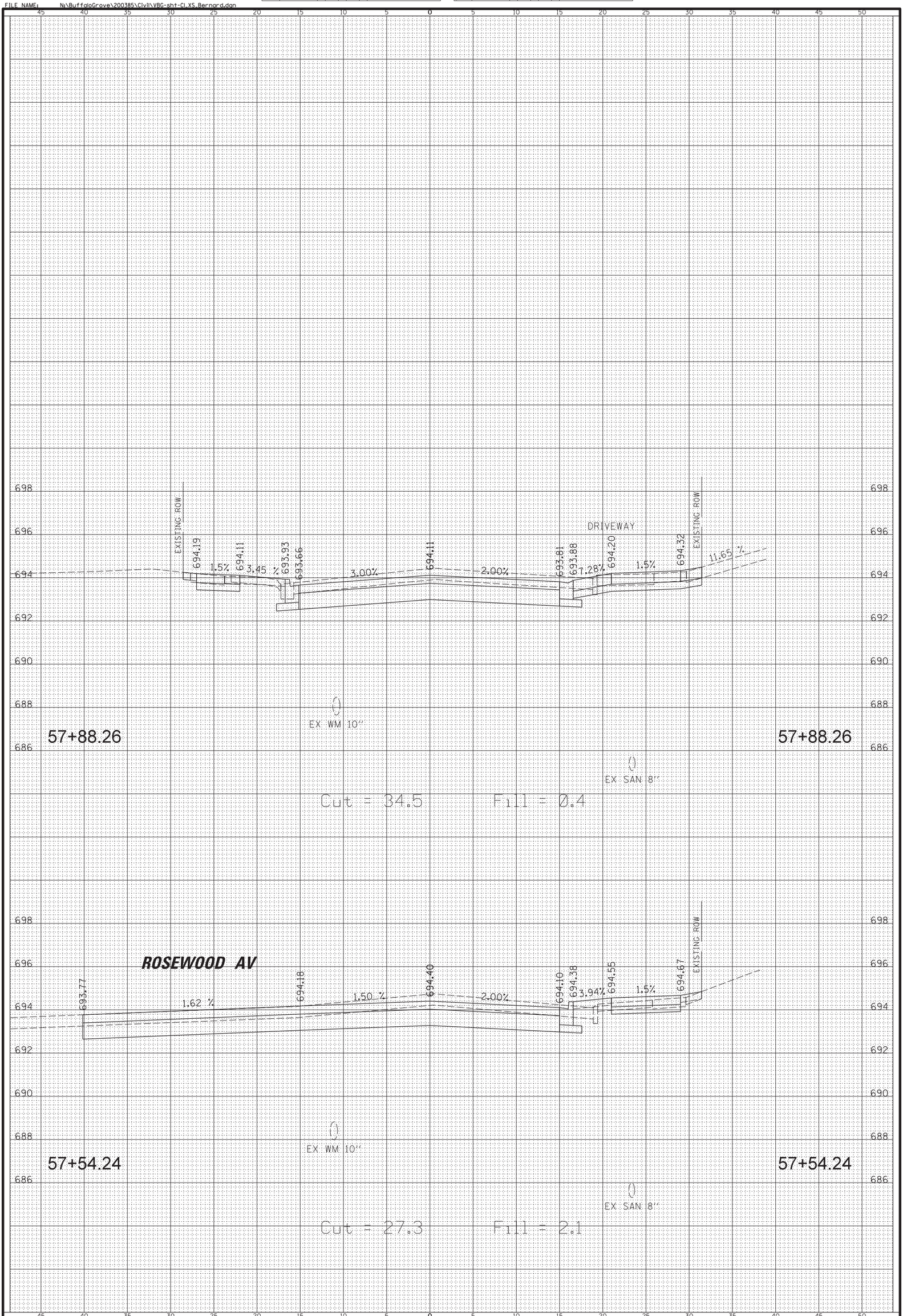
EX SS							
EX SAN							
EX RW							
EX WM							
EX TEL							

	GEOPH	DRWN	DATE	REV	DATE	CHKD	DESC
PR							
PR SS							
PR SAN							
PR RW							
PR DITCH							
ROW							
CUT							

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CI_XS_Bernard.dgn



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BUFFALO GROVE, ILLINOIS 60089
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DSGN.	
DWN.	
CHKD.	
SCALE:	HORZ. 5 VERT. 2
PLOT DATE:	11/1/2023
CAD USER:	jsltrick
MODEL:	Default

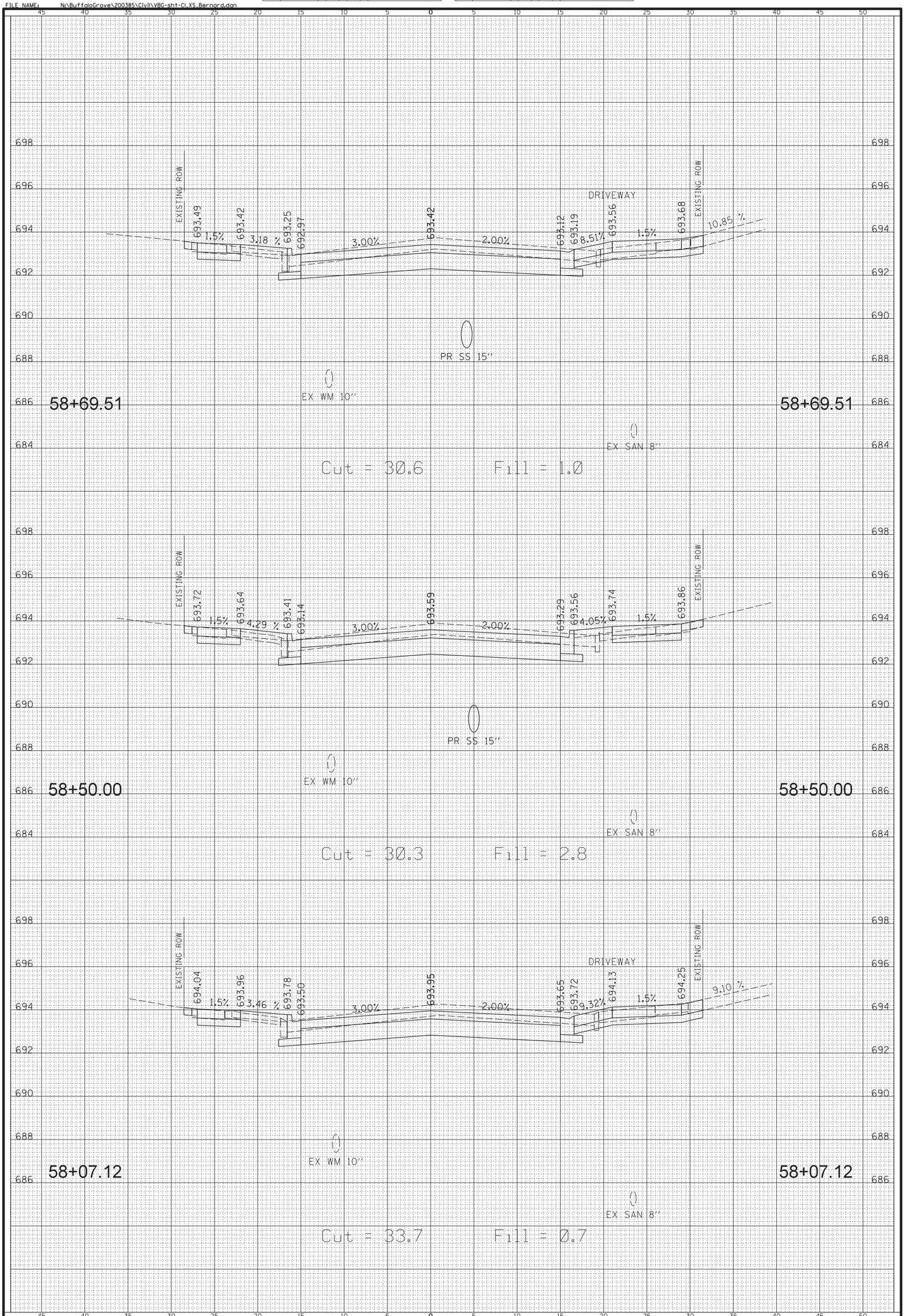
TITLE:

BERNARD DR

STA. 57 + 54.24 – STA. 57 + 88.26

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	62 OF 97
DRAWING NO.	XS4

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CI_XS_Bernard.dgn



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DSGN.	
DWN.	
CHKD.	
SCALE:	HORZ. 5 VERT. 2
PLOT DATE:	11/1/2023
CAD USER:	jsltrick
MODEL:	Default

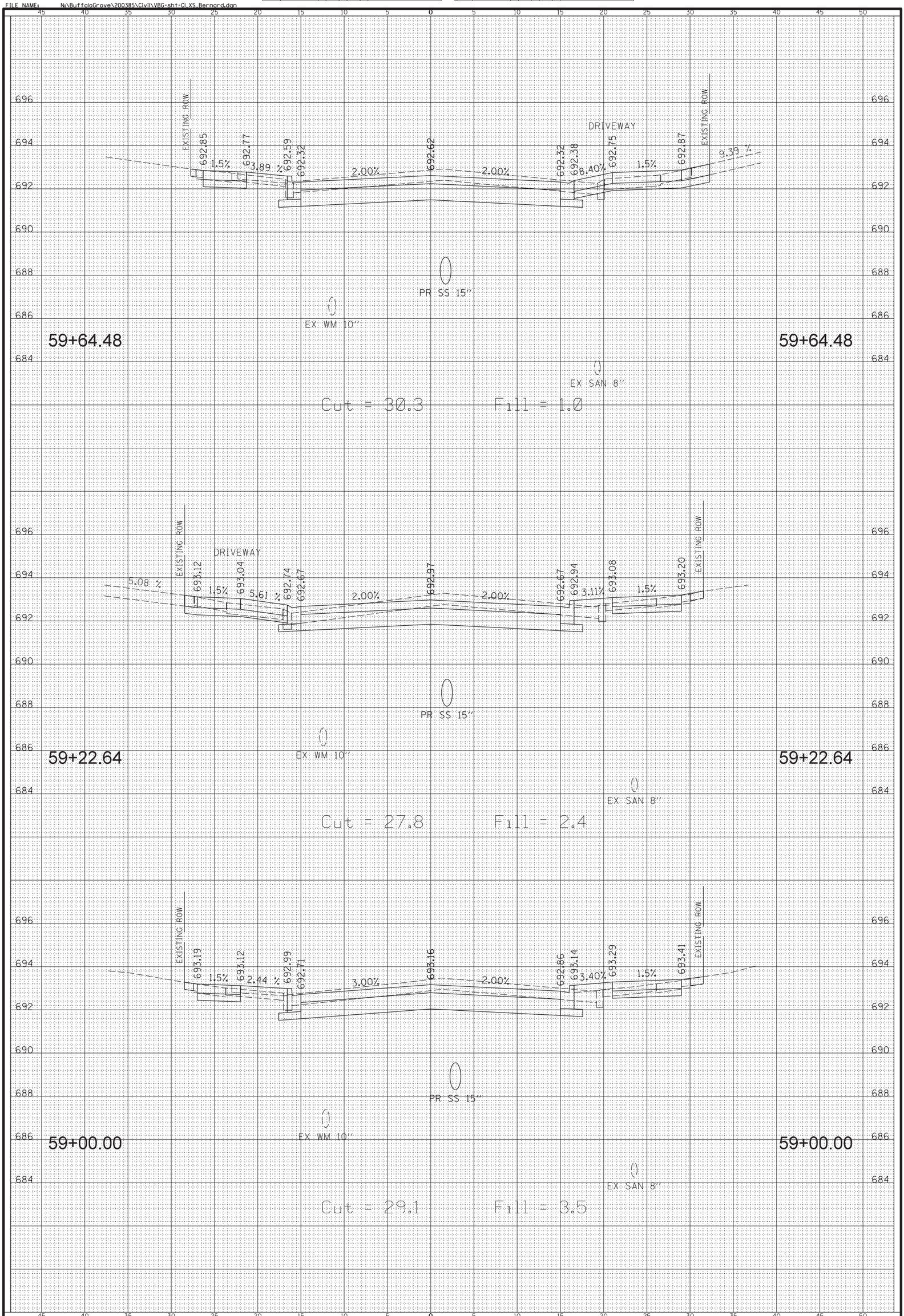
TITLE:

BERNARD DR

STA. 58 + 07.12 – STA. 58 + 69.51

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	63 OF 97
DRAWING NO.	XS5

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CI_XS_Bernard.dgn



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DSGN.	
DWN.	
CHKD.	
SCALE:	HORZ. 5 VERT. 2
PLOT DATE:	11/1/2023
CAD USER:	jsltrick
MODEL:	Default

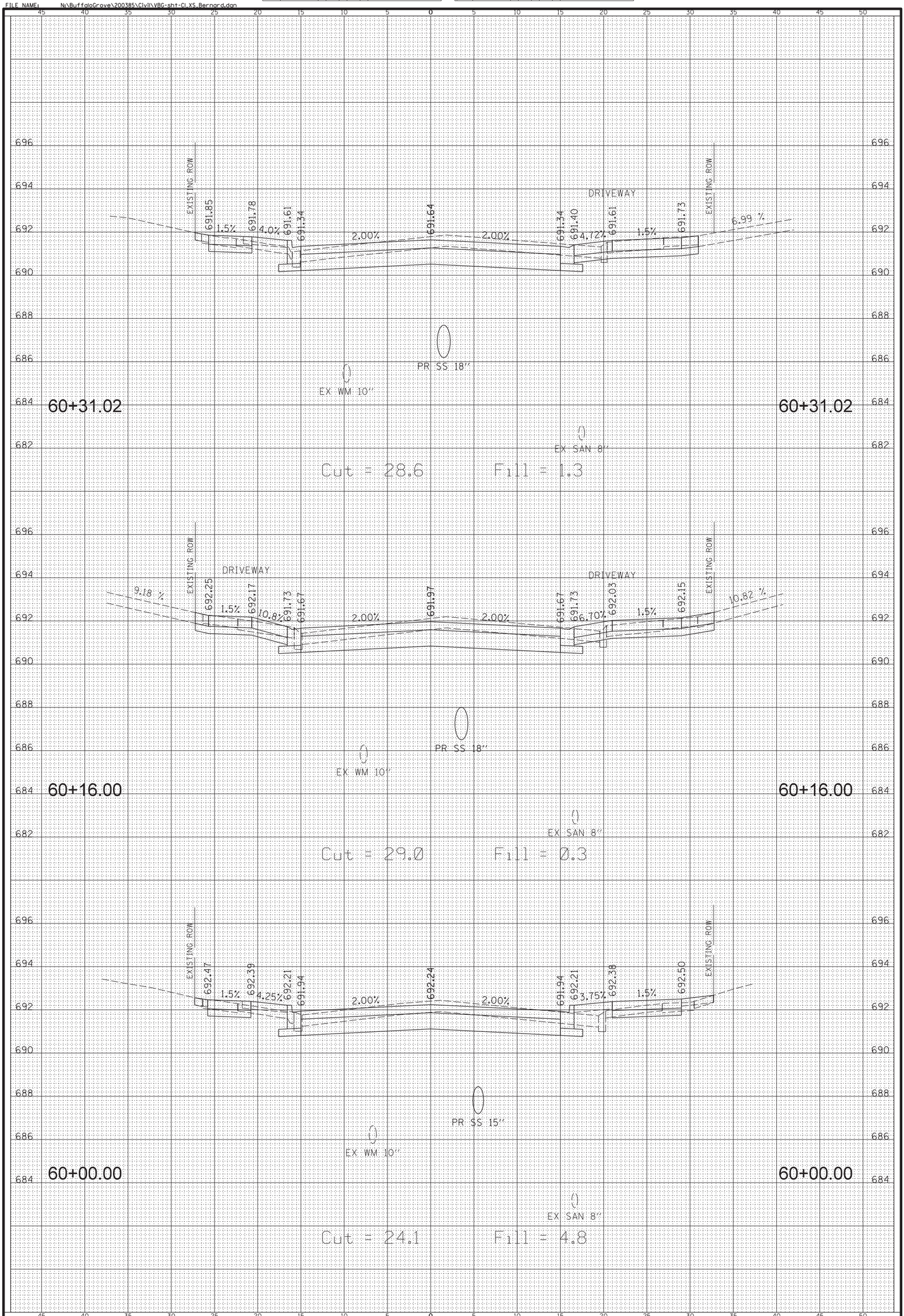
TITLE:

BERNARD DR

STA. 59 + 00.00 – STA. 59 + 64.48

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	64 OF 97
DRAWING NO.	XS6

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CI_XS_Bernard.dgn



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DSGN.	
DWN.	
CHKD.	
SCALE:	HORZ. 5 VERT. 2
PLOT DATE:	11/1/2023
CAD USER:	jsltrick
MODEL:	Default

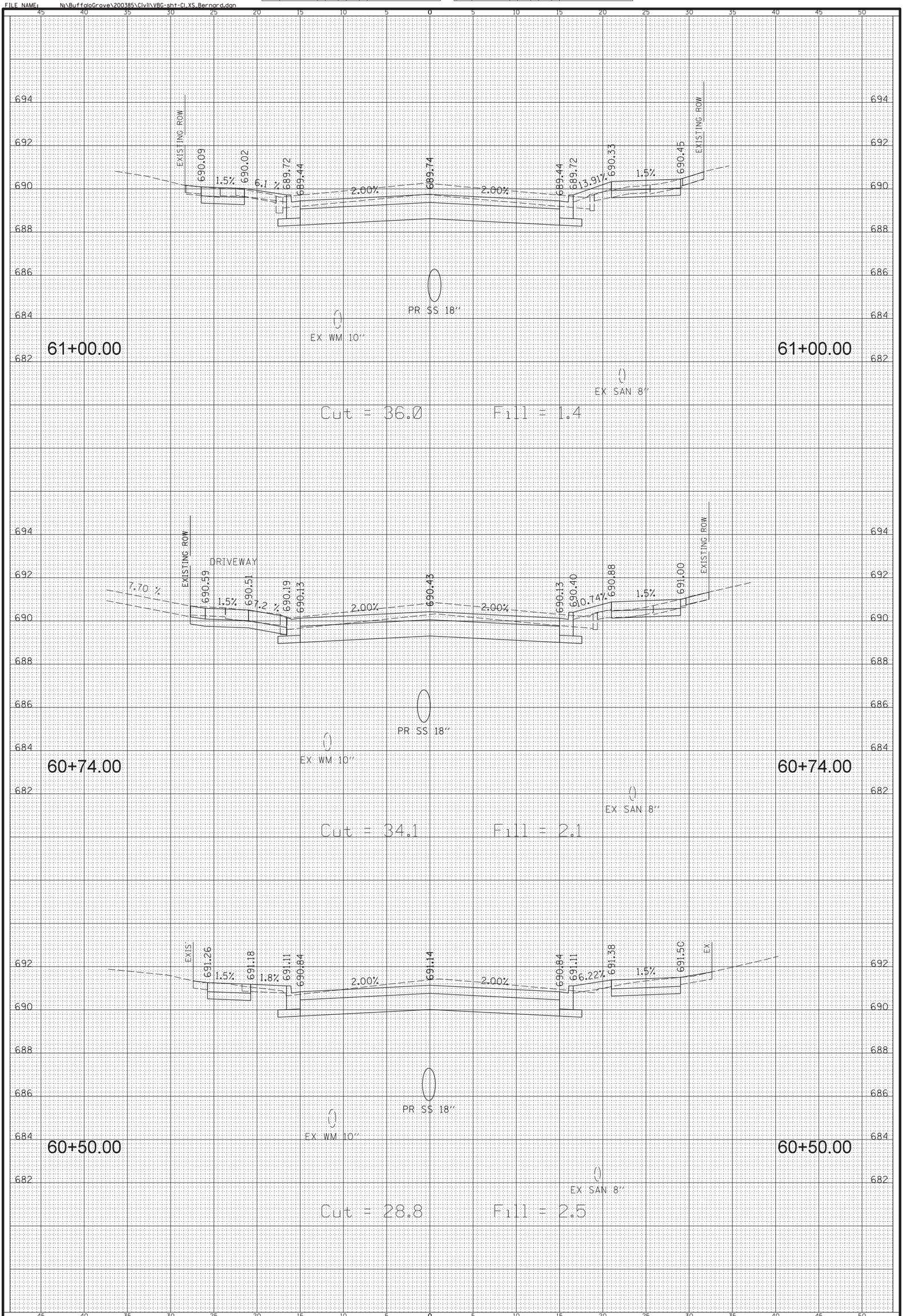
TITLE:

BERNARD DR

STA. 60+00.00 – STA. 60+31.02

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	65 OF 97
DRAWING NO.	XS7

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CI_XS_Bernard.dgn



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(847) 459-2500

DSGN.	
DWN.	
CHKD.	
SCALE:	HORZ. 5 VERT. 2
PLOT DATE:	11/1/2023
CAD USER:	jsltrick
MODEL:	Default

TITLE:

BERNARD DR

STA. 60+50.00 – STA. 61+00.00

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	66 OF 97
DRAWING NO.	XS8

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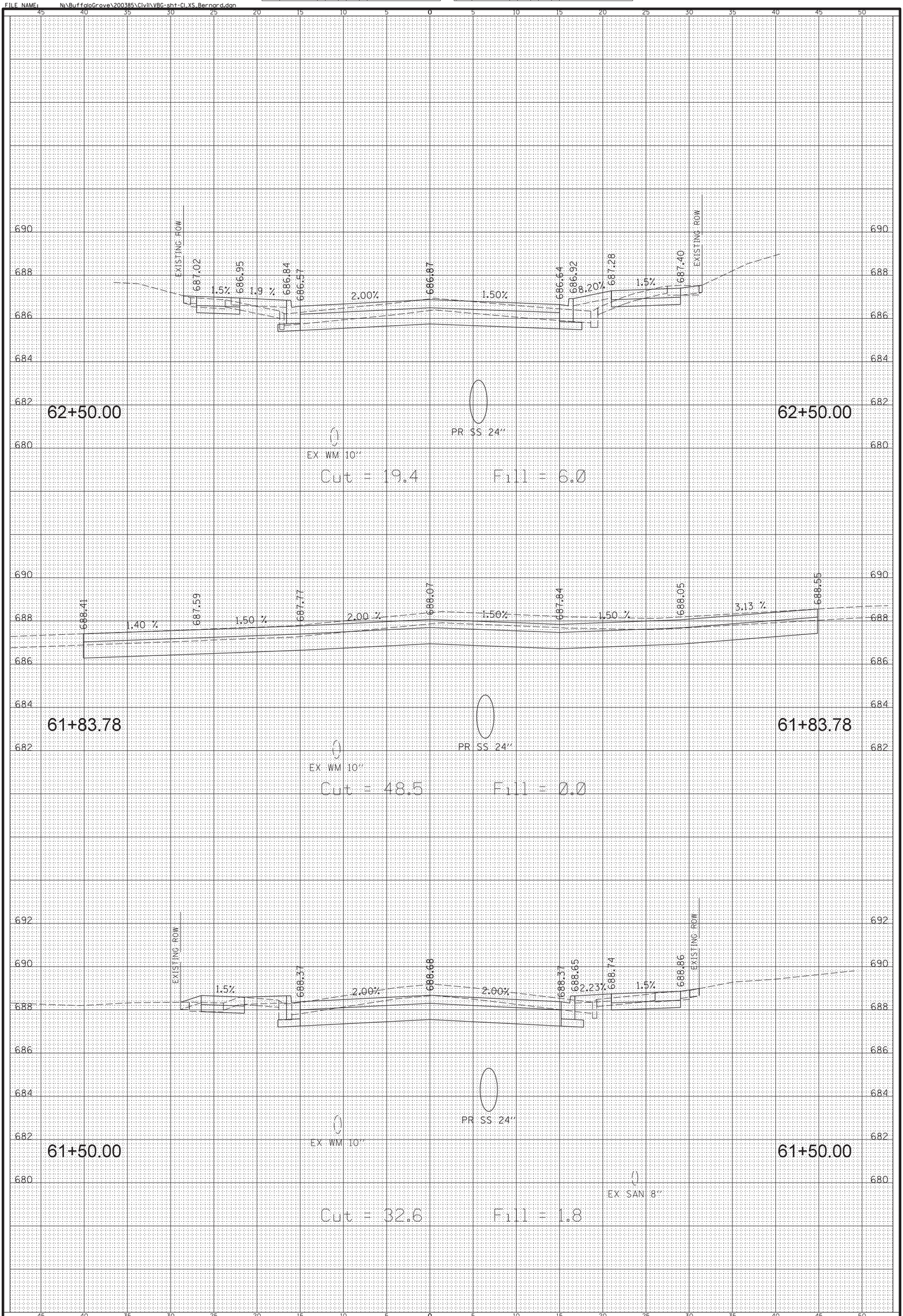
EX SAN							
EX WM							
EX TEL							

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
PR							
PR SS							
PR SAN							
PR WM							
PR STORM							
ROW							
CUT							

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CL-XS_Bernard.dgn



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DSGN.	
DWN.	
CHKD.	
SCALE:	HORZ. 5 VERT. 2
PLOT DATE:	11/1/2023
CAD USER:	jsltrick
MODEL:	Default

TITLE:

BERNARD DR

STA. 61 + 50.00 – STA. 62 + 50.00

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	67 OF 97
DRAWING NO.	XS9

	GEOPHI	DRWN	DATE	REV	DATE	CHKD	DESC
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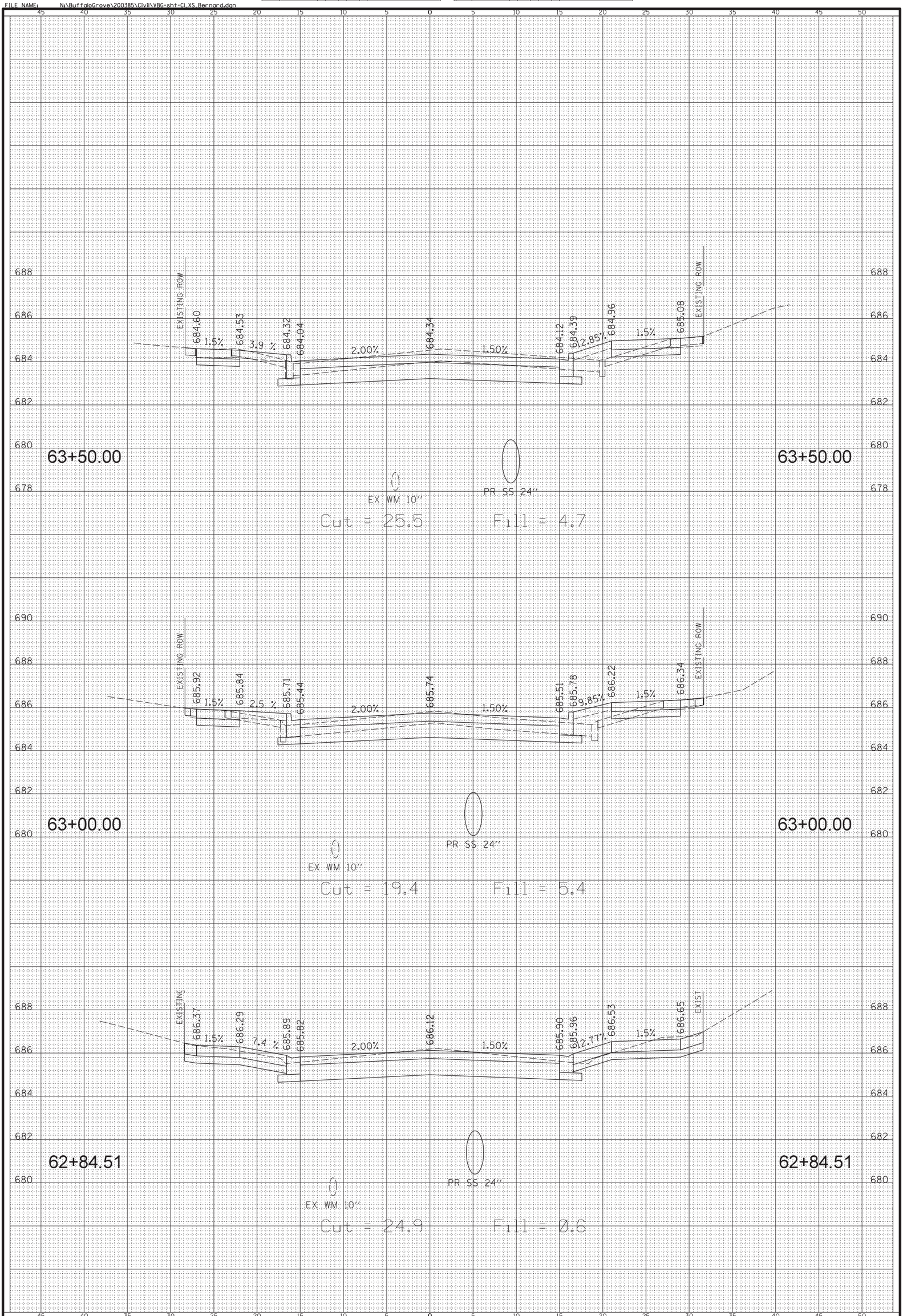
EX SS							
EX SAN							
EX RW							
EX SAN							
EX TEL							

	GEOPHI	DRWN	DATE	REV	DATE	CHKD	DESC
PR							
PR SS							
PR SAN							
PR RW							
PR SYSTM							
ROW							
CUT							

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CI_XS_Bernard.dgn



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CLIENT:

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(847) 459-2500

DSGN.		
DWN.		
CHKD.		
SCALE:	HORZ. 5 VERT. 2	
PLOT DATE:	11/1/2023	
CAD USER:	jsltrick	
MODEL:	Default	

TITLE:

BERNARD DR

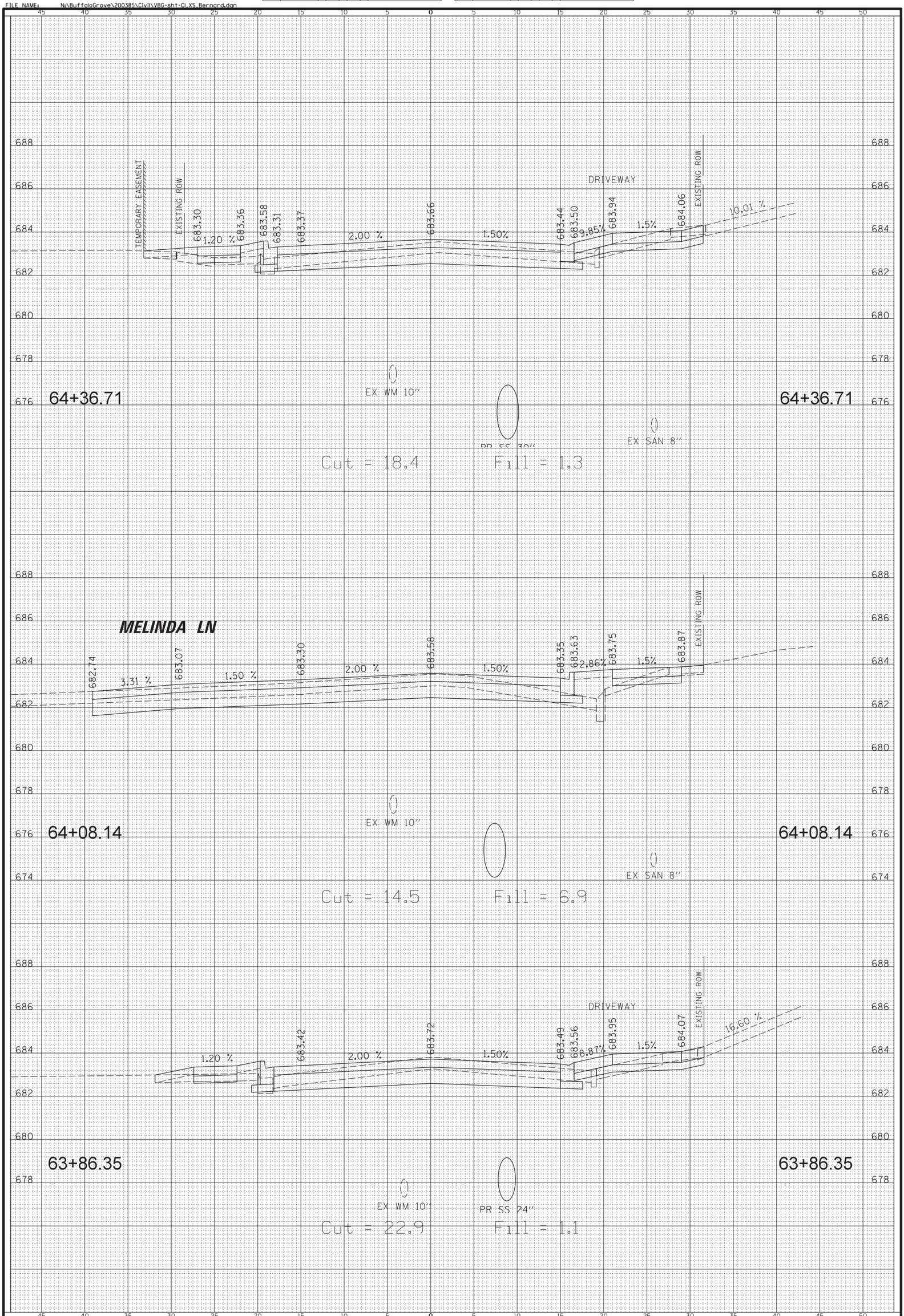
STA. 62 + 84.51 – STA. 63 + 50.00

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	68 OF 97
DRAWING NO.	XS10

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
EX							
EX SS							
EX SAN							
EX WM							
EX TEL							

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
PR							
PR SS							
PR SAN							
PR WM							
PR SYSTEM							
ROW							
CUT							

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CI_XS_Bernard.dgn



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CLIENT:

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BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

DSGN.		
DWN.		
CHKD.		
SCALE:	HORZ. 5 VERT. 2	
PLOT DATE:	11/1/2023	
CAD USER:	jsltrick	
MODEL:	Default	

TITLE:

BERNARD DR

STA. 63 + 86.35 – STA. 64 + 36.71

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	69 OF 97
DRAWING NO.	XS11

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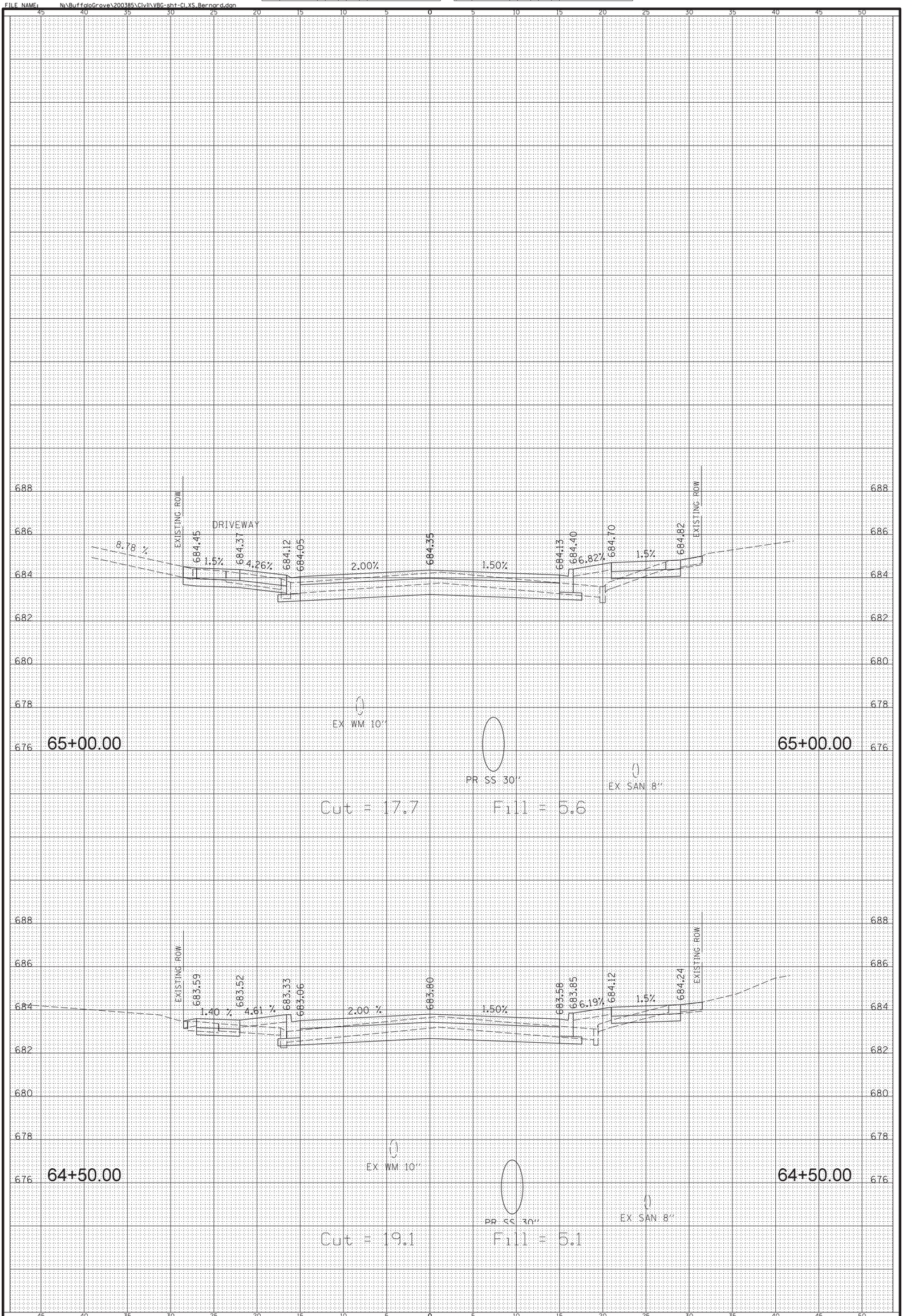
EX SS							
EX SAN							
EX WM							
EX TEL							

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
PR SS							
PR SAN							
PR WM							
PR STORM							
ROW							
CUT							

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-Cl_XS_Bernard.dgn



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(847) 459-2500

DSGN.	
DWN.	
CHKD.	
SCALE:	HORZ. 5 VERT. 2
PLOT DATE:	11/1/2023
CAD USER:	jsltrick
MODEL:	Default

TITLE:

BERNARD DR

STA. 64 + 50.00 – STA. 65 + 00.00

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	70 OF 97
DRAWING NO.	XS12

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
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EX SAN							
EX WM							
EX SAN							
EX TEL							

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
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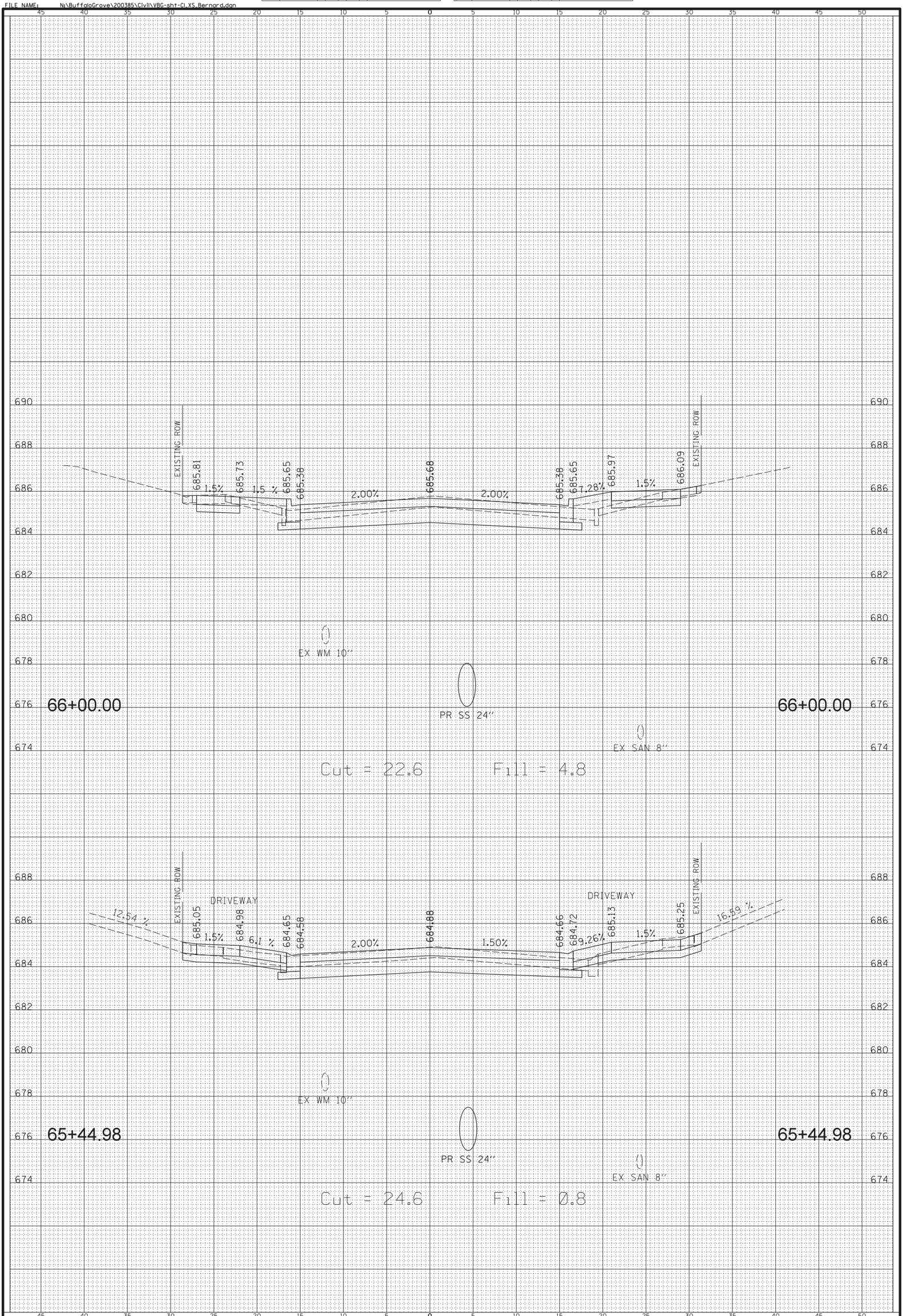
FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CLXS_Bernard.dgn



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(847) 459-2500

DSGN.	
DWN.	
CHKD.	
SCALE:	HORZ. 5 VERT. 2
PLOT DATE:	11/1/2023
CAD USER:	jsltrick
MODEL:	Default

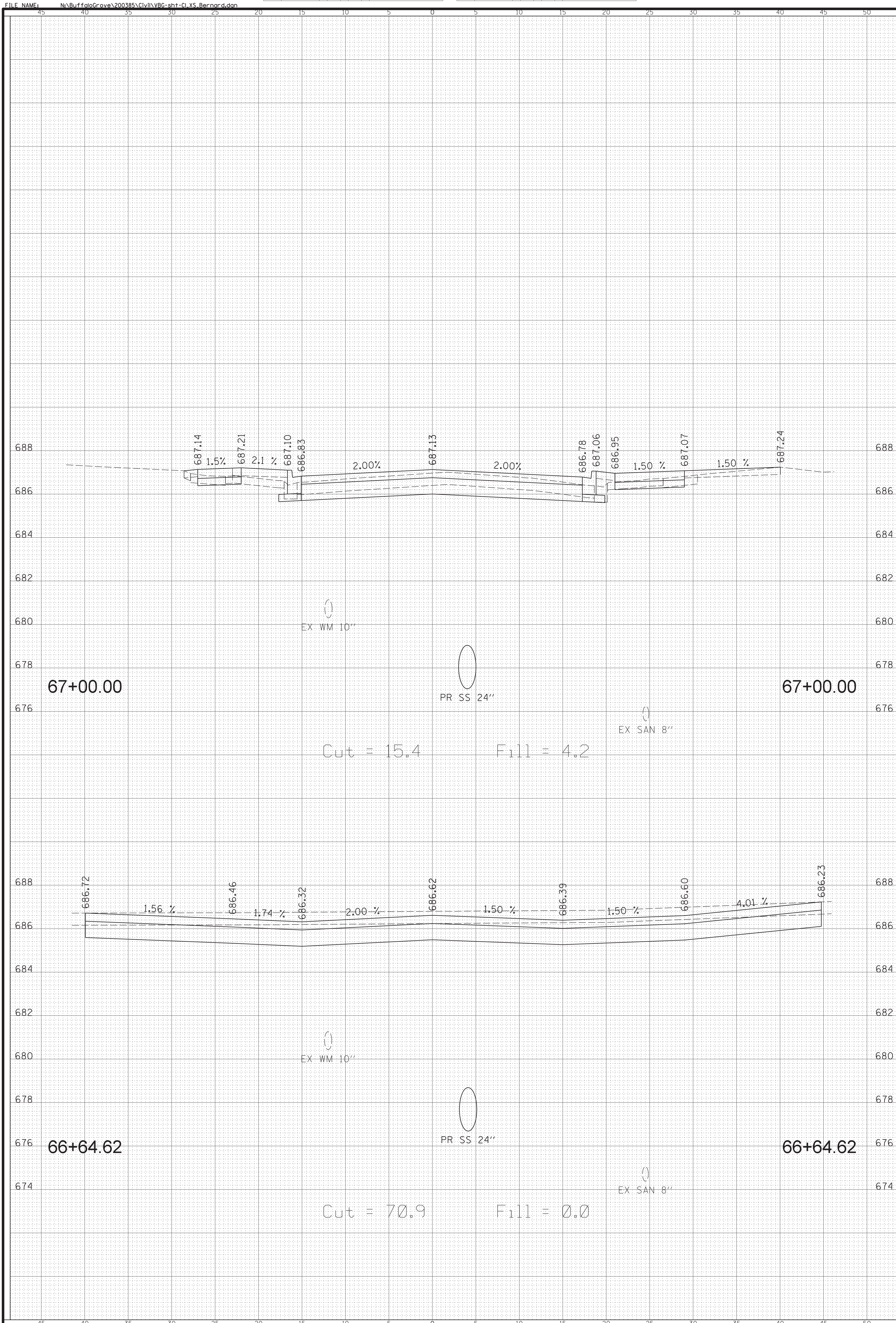
TITLE:

BERNARD DR

STA. 65 + 44.98 – STA. 66 + 00.00

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	71 OF 97
DRAWING NO.	XS13

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CLXS_Bernard.dgn



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(847) 459-2500

DSGN.	
DWN.	
CHKD.	
SCALE:	HORZ. 5 VERT. 2
PLOT DATE:	11/1/2023
CAD USER:	jsitrick
MODEL:	Default

TITLE:
BERNARD DR
STA. 66+64.62 – STA. 67+00.00

PROJ. NO. 200385
DATE: 11/1/2023
SHEET 72 OF 97
DRAWING NO.
XS14

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
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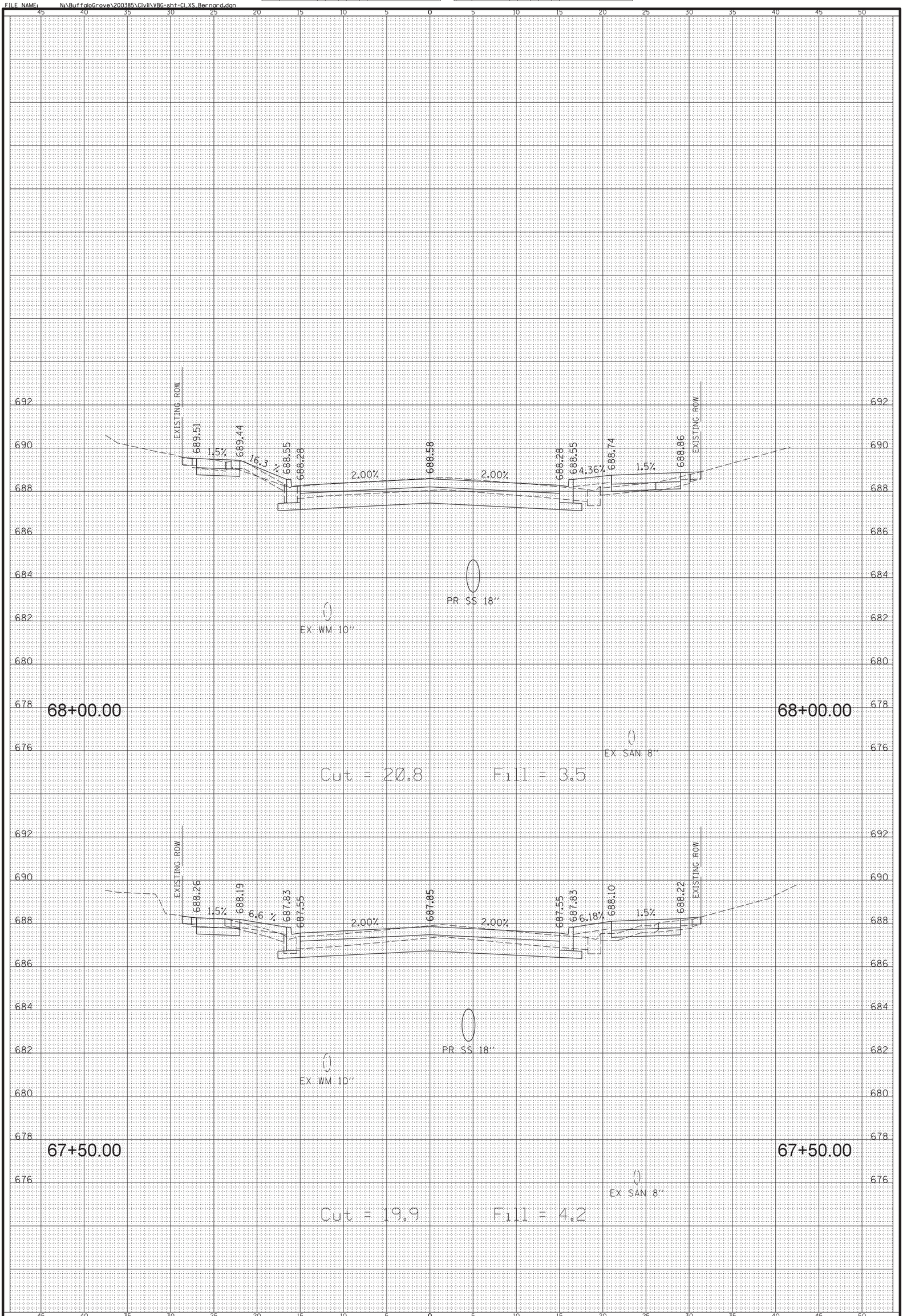
EX SAN							
EX WM							
EX TEL							

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
PR SS							
PR SAN							
PR WM							
PR STORM							
ROW							
CUT							

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CI_XS_Bernard.dgn



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BUFFALO GROVE, ILLINOIS 60089
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DSGN.	
DWN.	
CHKD.	
SCALE:	HORZ. 5 VERT. 2
PLOT DATE:	11/1/2023
CAD USER:	jsltrick
MODEL:	Default

TITLE:

BERNARD DR

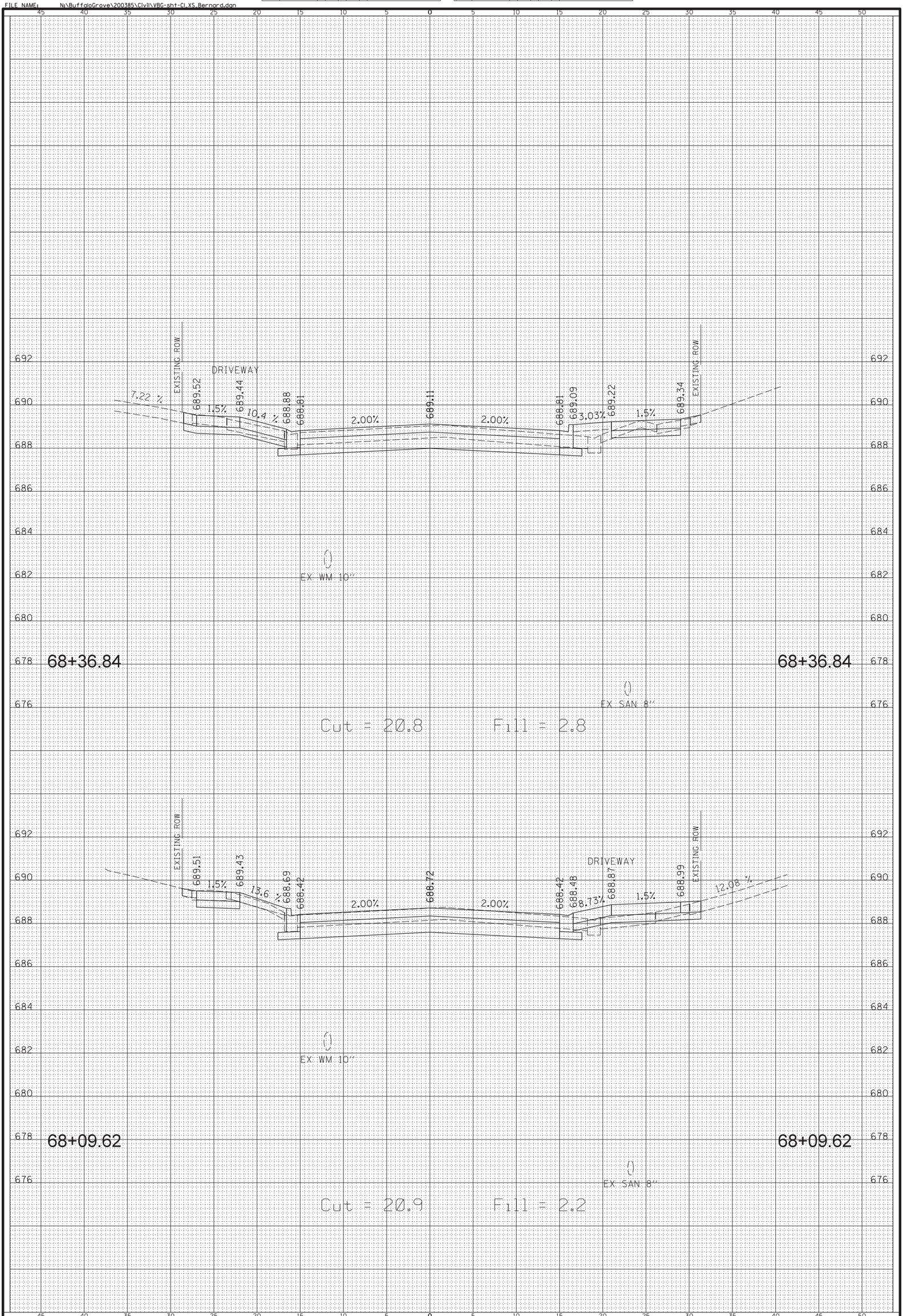
STA. 67+50.00 – STA. 68+00.00

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	73 OF 97
DRAWING NO.	XS15

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
EX SS							
EX SAN							
EX WM							
EX SSWR							

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
PR SS							
PR SAN							
PR WM							
PR SSWR							
ROW							
CUT							

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CI_XS_Bernard.dgn



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(847) 459-2500

DSGN.	
DWN.	
CHKD.	
SCALE:	HORZ. 5 VERT. 2
PLOT DATE:	11/1/2023
CAD USER:	jsltrick
MODEL:	Default

TITLE:

BERNARD DR

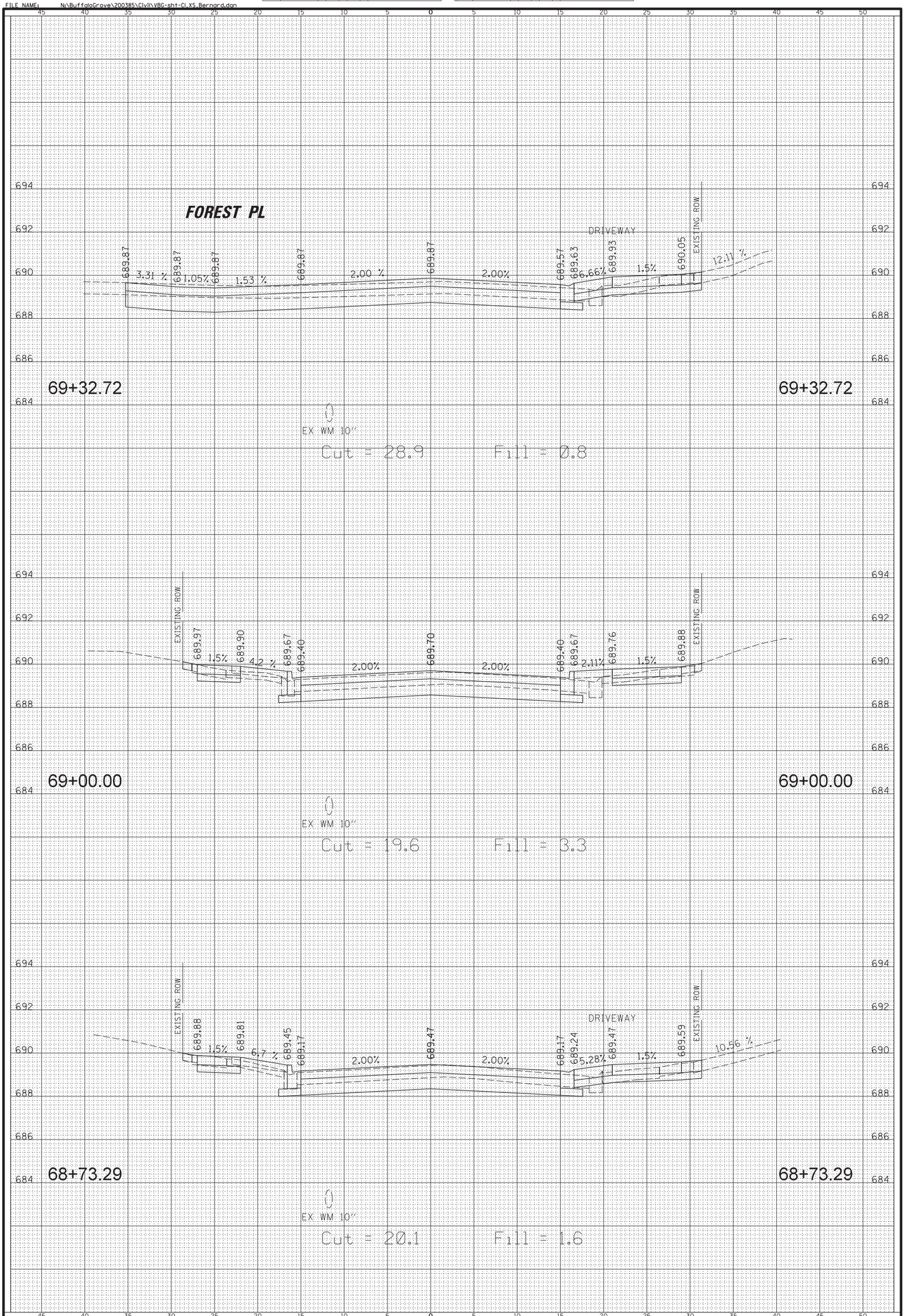
STA. 68 + 09.62 – STA. 68 + 36.84

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	74 OF 97
DRAWING NO.	XS16

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
EX							
EX SS							
EX SAN							
EX WM							
EX GAS							
EX TEL							

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
PR							
PR SS							
PR SAN							
PR WM							
PR STORM							
ROW							
CUT							

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CI_XS_Bernard.dgn



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(847) 459-2500

DSGN.		
DWN.		
CHKD.		
SCALE:	HORZ. 5 VERT. 2	
PLOT DATE:	11/1/2023	
CAD USER:	jsltrick	
MODEL:	Default	

TITLE:

BERNARD DR

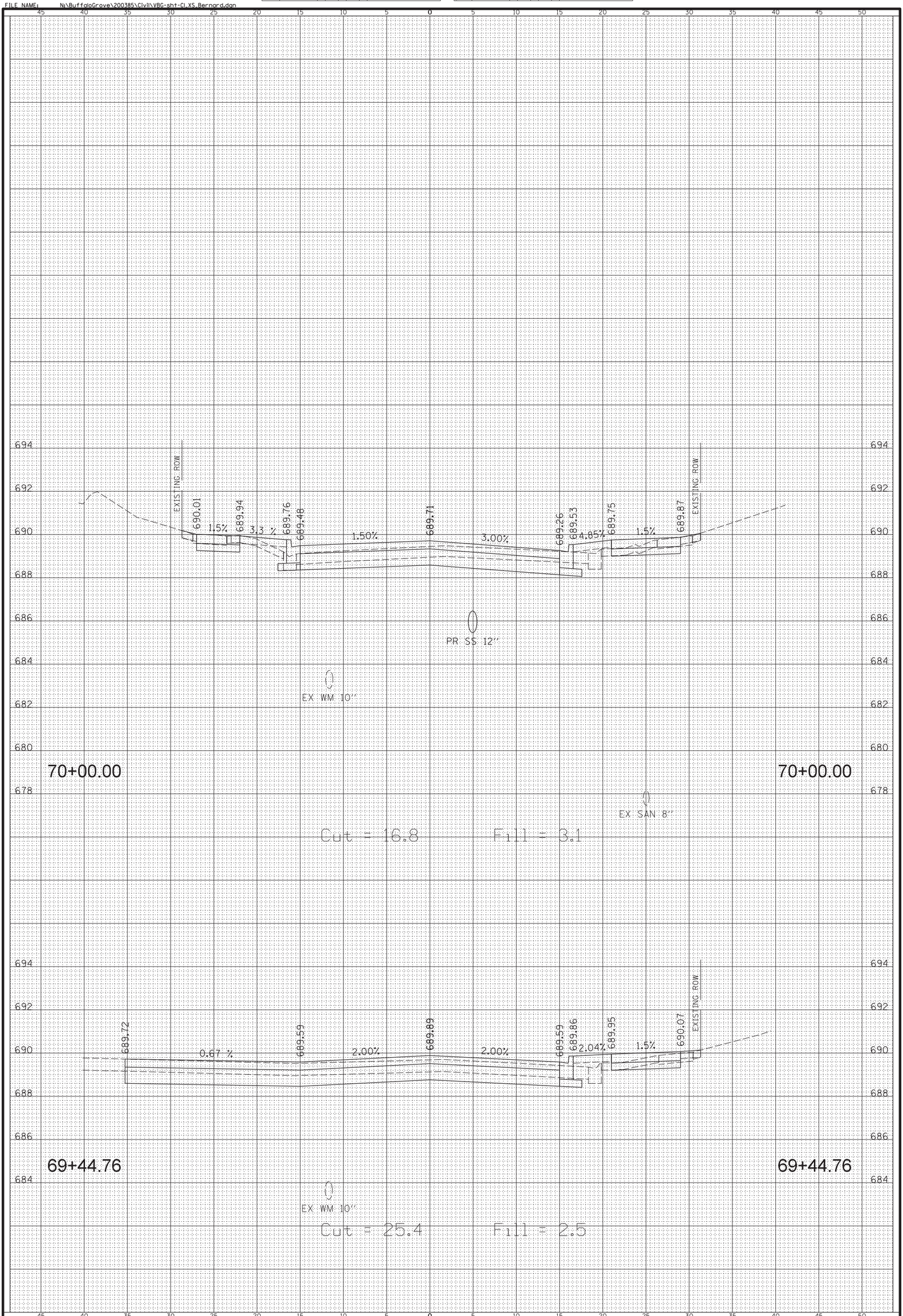
STA. 68 + 73.29 – STA. 69 + 32.72

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	75 OF 97
DRAWING NO.	XS17

	GEOPH	DRWN	DATE	REV	DATE	CHKD	DESC
EX							
EX SS							
EX SAN							
EX WM							
EX TEL							

	GEOPH	DRWN	DATE	REV	DATE	CHKD	DESC
PR							
PR SS							
PR SAN							
PR WM							
PR SYSTM							
ROW							
CUT							

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CI_XS_Bernard.dgn



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(847) 459-2500

DSGN.	
DWN.	
CHKD.	
SCALE:	HORZ. 5 VERT. 2
PLOT DATE:	11/1/2023
CAD USER:	jsltrick
MODEL:	Default

TITLE:

BERNARD DR

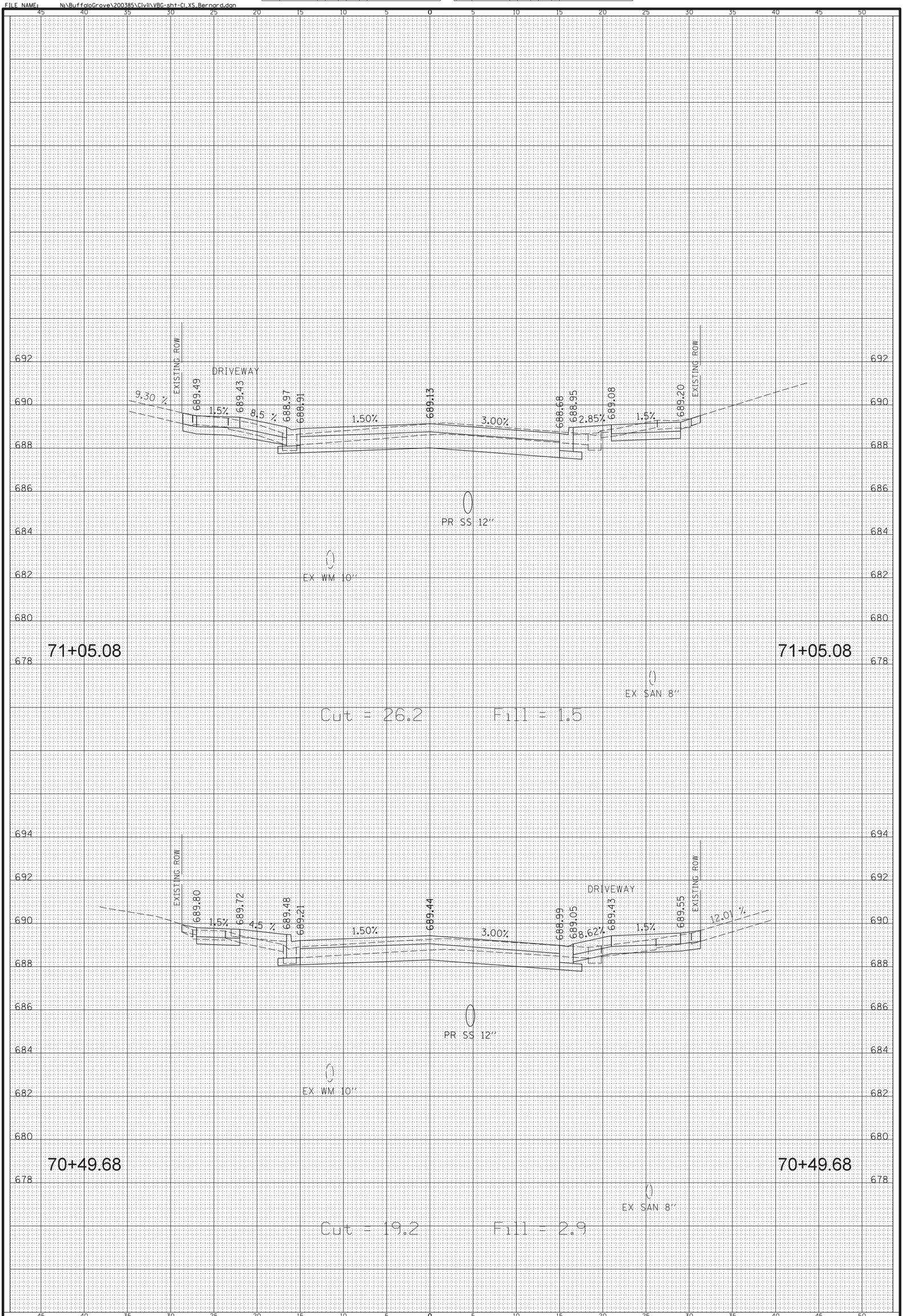
STA. 69 + 44.76 – STA. 70 + 00.00

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	76 OF 97
DRAWING NO.	XS18

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
EX SS							
EX SAN							
EX WM							
EX TEL							

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
PR							
PR SS							
PR SAN							
PR WM							
PR STORM							
ROW							
CUT							

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CI_XS_Bernard.dgn



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(847) 459-2500

DSGN.		
DWN.		
CHKD.		
SCALE:	HORZ. 5 VERT. 2	
PLOT DATE:	11/1/2023	
CAD USER:	jsltrick	
MODEL:	Default	

TITLE:

BERNARD DR

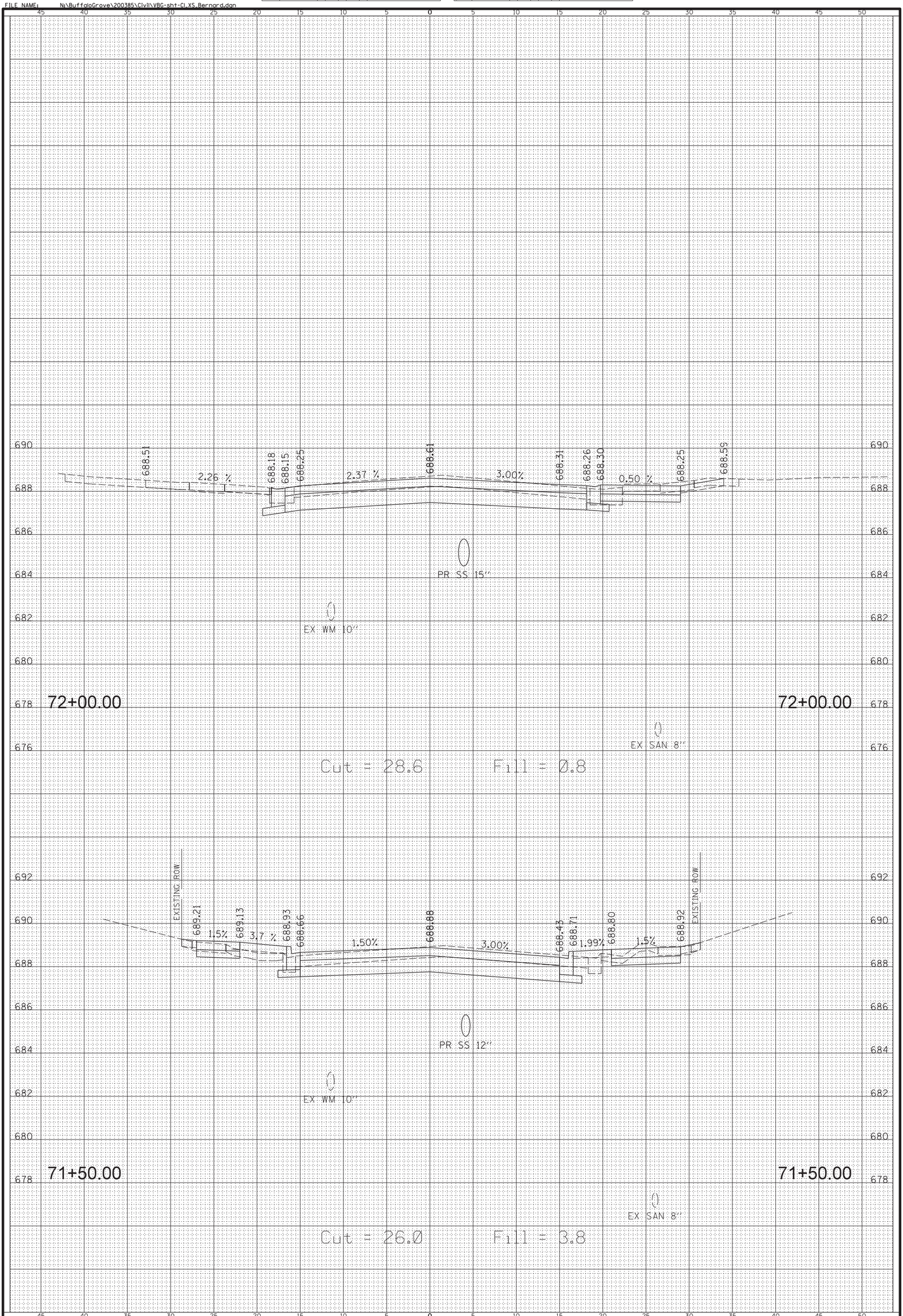
STA. 70 + 49.68 – STA. 71 + 05.08

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	77 OF 97
DRAWING NO.	XS19

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
EX SS							
EX SAN							
EX WM							
EX STM							
EX TEL							

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
PR SS							
PR SAN							
PR WM							
PR STORM							
ROW							
CUT							

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CI_XS_Bernard.dgn



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DSGN.	
DWN.	
CHKD.	
SCALE:	HORZ. 5 VERT. 2
PLOT DATE:	11/1/2023
CAD USER:	jsltrick
MODEL:	Default

TITLE:

BERNARD DR

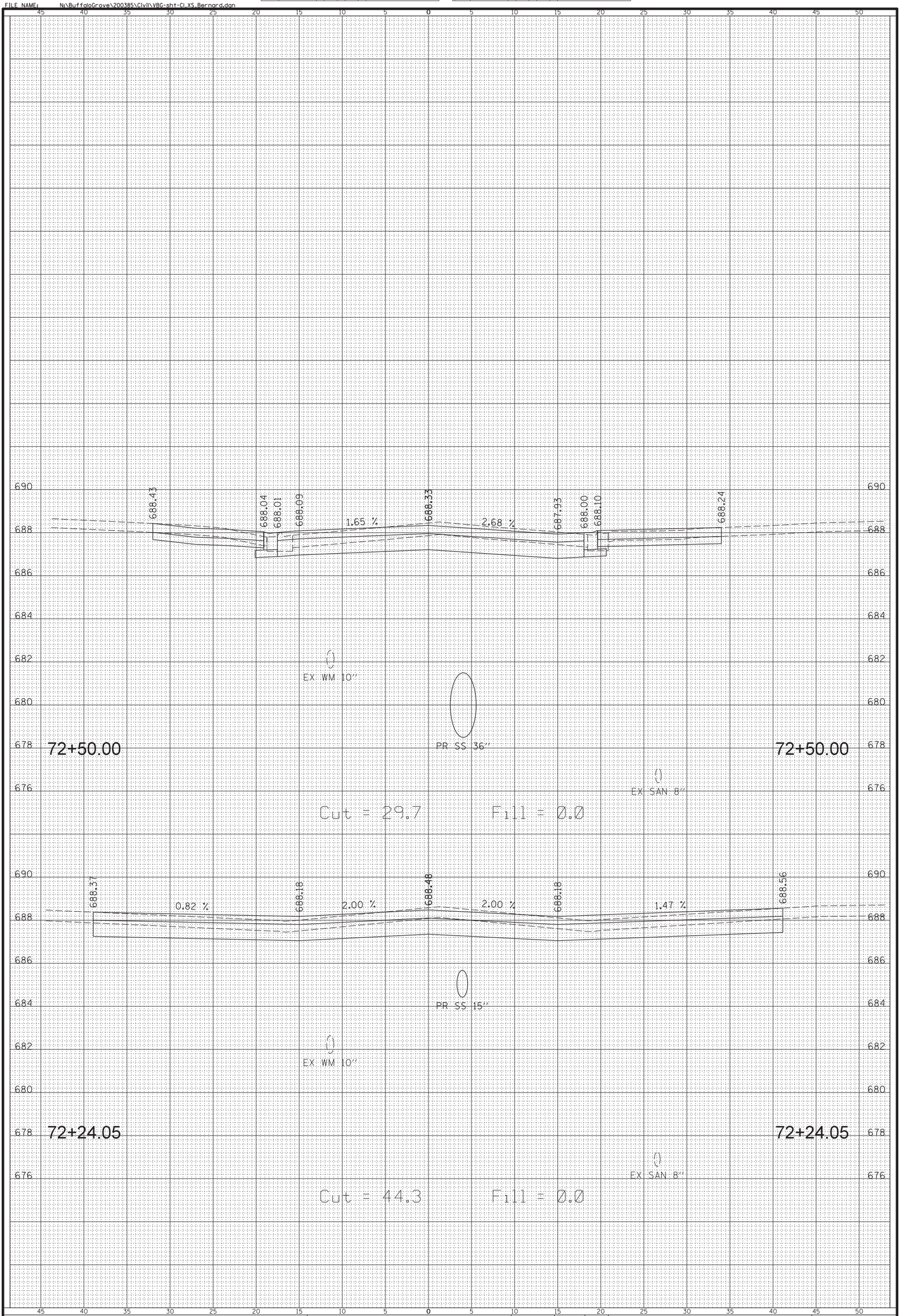
STA. 71+50.00 – STA. 72+00.00

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	78 OF 97
DRAWING NO.	XS20

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
EX							
EX SS							
EX SAN							
EX RW							
EX SAN							
EX TEL							

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
PR							
PR SS							
PR SAN							
PR RW							
PR SSTCH							
ROW							
CUT							

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CI_XS_Bernard.dgn



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(847) 459-2500

DSGN.	
DWN.	
CHKD.	
SCALE:	HORZ. 5 VERT. 2
PLOT DATE:	11/1/2023
CAD USER:	jsltrick
MODEL:	Default

TITLE:

BERNARD DR

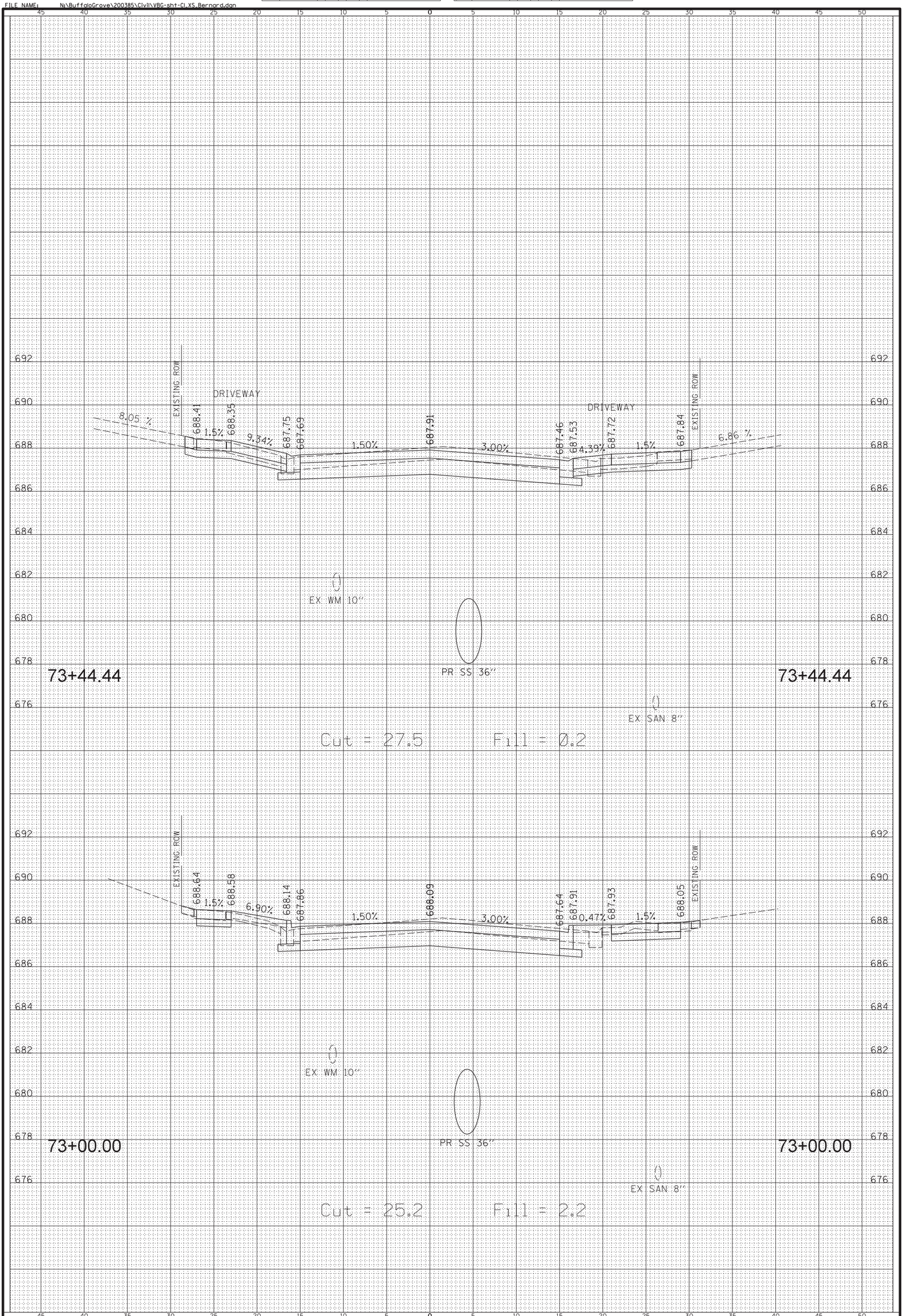
STA. 72 + 24.05 – STA. 72 + 50.00

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	79 OF 97
DRAWING NO.	XS21

	GEOPHI	DRWN	DATE	REV	DATE	CHKD	DESC
EX SS							
EX SAN							
EX WM							
EX TEL							

	GEOPHI	DRWN	DATE	REV	DATE	CHKD	DESC
PR SS							
PR SAN							
PR WM							
PR STORM							
ROW							
CUT							

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CL-XS-Bernard.dgn



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DSGN.	
DWN.	
CHKD.	
SCALE:	HORZ. 5 VERT. 2
PLOT DATE:	11/1/2023
CAD USER:	jsltrick
MODEL:	Default

TITLE:

BERNARD DR

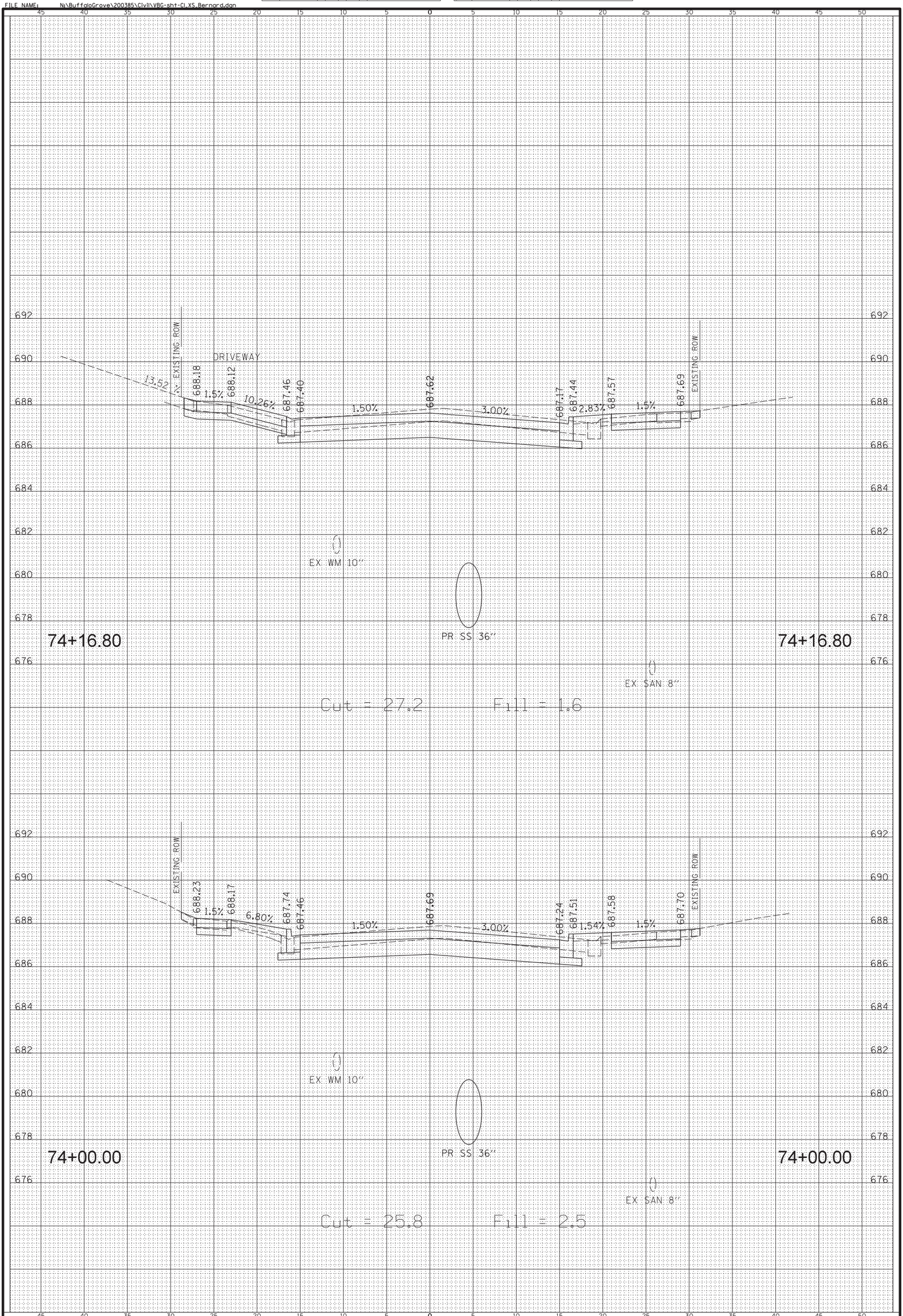
STA. 73 + 00.00 – STA. 73 + 44.44

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	80 OF 97
DRAWING NO.	XS22

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
EX SS							
EX SAN							
EX WM							
EX SWR							
EX TEL							

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
PR SS							
PR SAN							
PR WM							
PR SSTOR							
ROW							
CUT							

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CI_XS_Bernard.dgn



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BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

DSGN.		
DWN.		
CHKD.		
SCALE:	HORZ. 5 VERT. 2	
PLOT DATE:	11/1/2023	
CAD USER:	jsltrick	
MODEL:	Default	

TITLE:

BERNARD DR

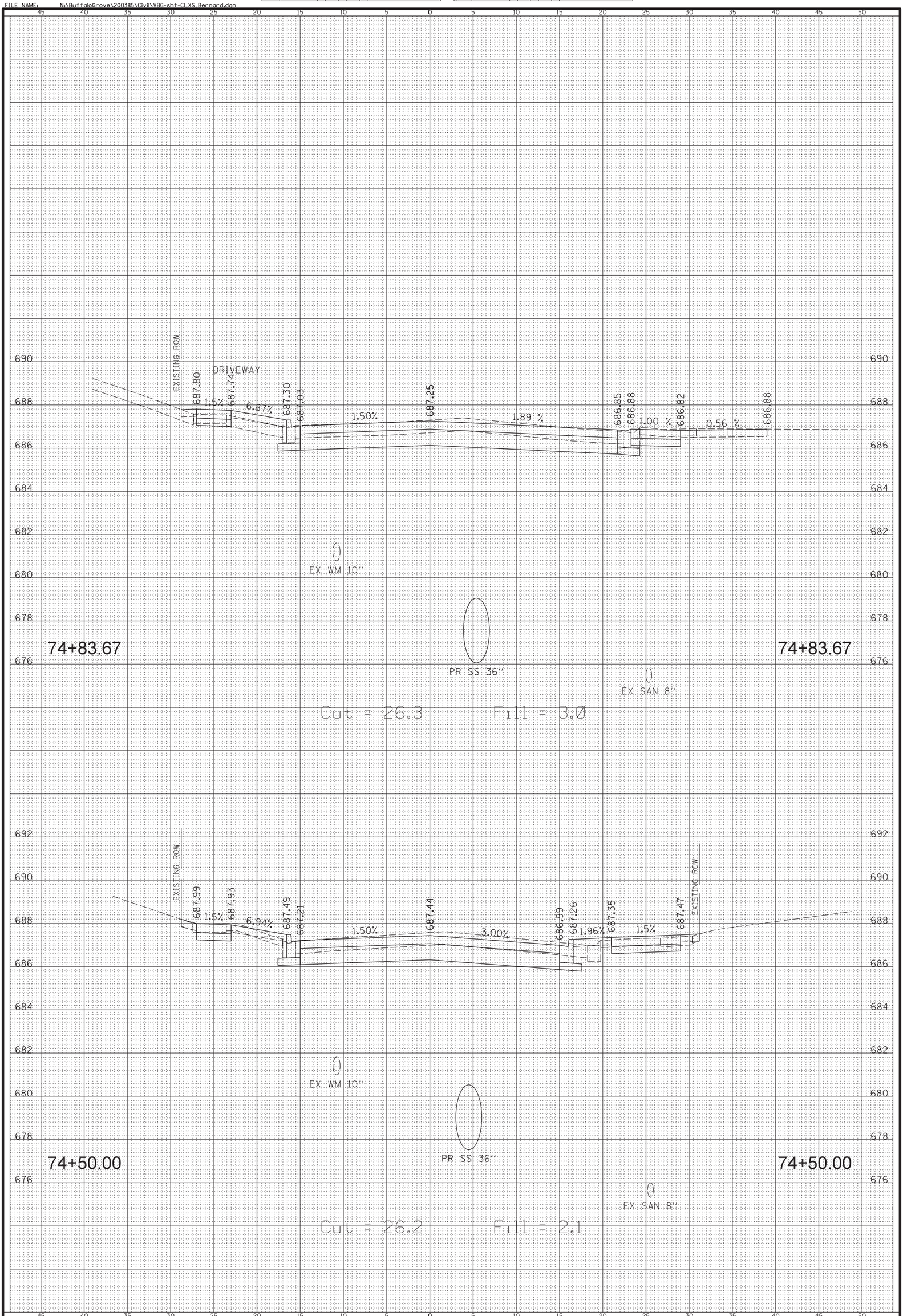
STA. 74+00.00 – STA. 74+16.80

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	81 OF 97
DRAWING NO.	XS23

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
EX SS							
EX SAN							
EX WM							
EX TEL							

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
PR SS							
PR SAN							
PR WM							
PR SSTEM							
ROW							
CUT							

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CL-XS_Bernard.dgn



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CLIENT:

Village of Buffalo Grove
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BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

DSGN.		
DWN.		
CHKD.		
SCALE:	HORZ. 5 VERT. 2	
PLOT DATE:	11/1/2023	
CAD USER:	jsltrick	
MODEL:	Default	

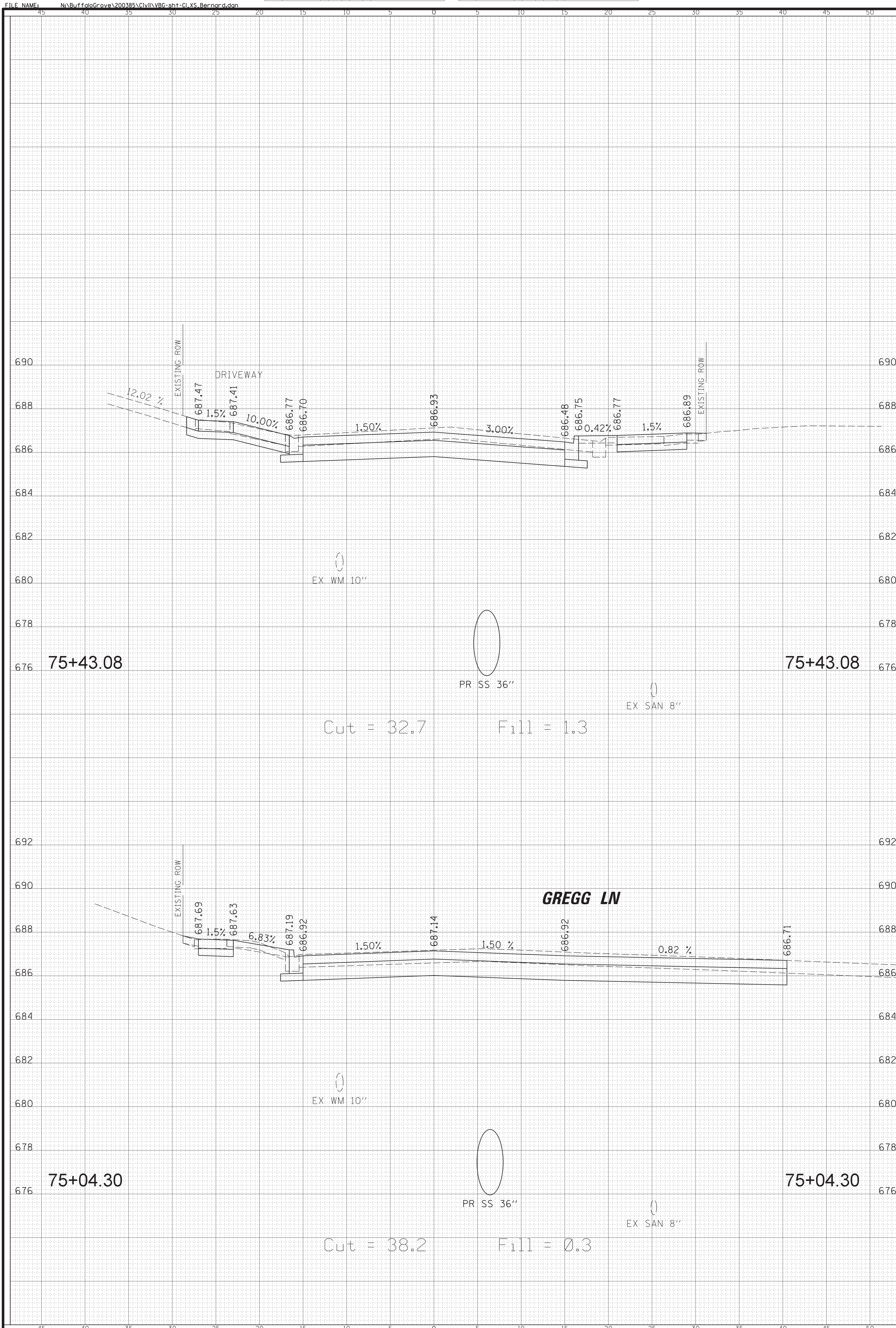
TITLE:

BERNARD DR

STA. 74 + 50.00 – STA. 74 + 83.67

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	82 OF 97
DRAWING NO.	XS24

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CL XS Bernard.dgn



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BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

DSGN.	
DWN.	
CHKD.	
SCALE:	HORZ. 5 VERT. 2
PLOT DATE:	11/1/2023
CAD USER:	jsitrick
MODEL:	Default

TITLE:
BERNARD DR
STA. 75+04.30 – STA. 75+43.08

PROJ. NO. 200385
DATE: 11/1/2023
SHEET 83 OF 97
DRAWING NO.
XS25

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
EX SS							
EX SAN							
EX WM							
EX SWR							
EX TEL							

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
PR							
PR SS							
PR SAN							
PR WM							
PR SSTOM							
ROW							
CUT							

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-Cl_XS_Bernard.dgn

45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50

690 688 686 684 682 680 678 676 674

EXISTING ROW
DRIVEWAY
12.90 %
686.79
1.5%
686.73
9.72%
686.11
686.04
1.50%
686.27
3.00%
685.82
685.88
5.62%
686.13
1.5%
686.25
EXISTING ROW
2.36 %
EX WM 10"
76+63.35
PR SS 36"
EX SAN 8"
76+63.35
Cut = 30.8
Fill = 0.0

EXISTING ROW
DRIVEWAY
15.10 %
687.13
1.5%
687.07
9.93%
686.43
686.37
1.50%
686.59
3.00%
686.14
686.42
0.67%
686.45
1.5%
686.57
EXISTING ROW
EX WM 10"
76+04.02
PR SS 36"
EX SAN 8"
76+04.02
Cut = 35.4
Fill = 1.0

45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50

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DSGN.	
DWN.	
CHKD.	
SCALE:	HORZ. 5 VERT. 2
PLOT DATE:	11/1/2023
CAD USER:	jsltrick
MODEL:	Default

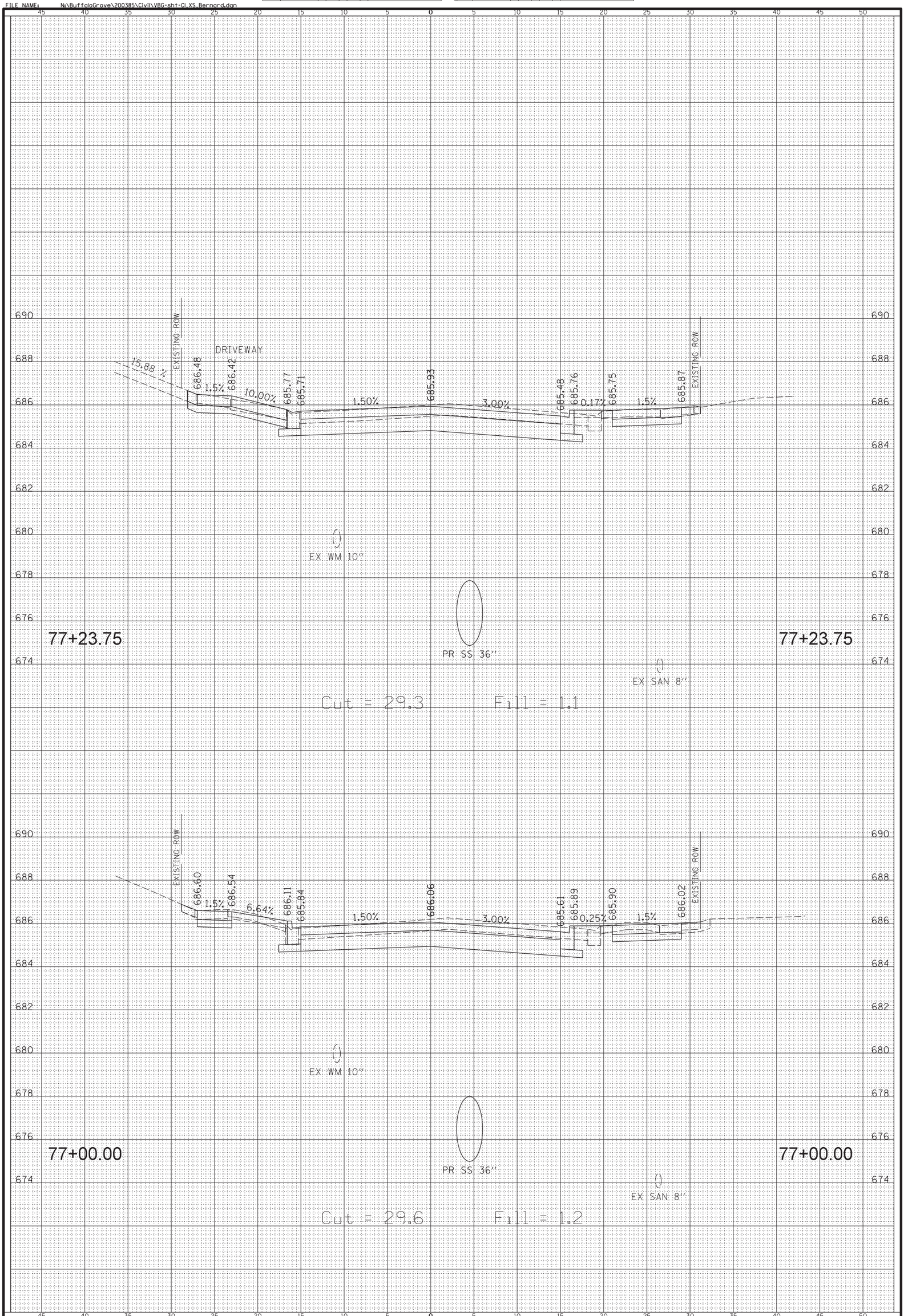
TITLE:
BERNARD DR
STA. 76+04.02 – STA. 76+63.35

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	84 OF 97
DRAWING NO.	XS26

	GEOPHI	DRWN	DATE	REV	DATE	CHKD	DESC
EX							
EX SS							
EX SAN							
EX RW							
EX SDSW							
EX TEL							

	GEOPHI	DRWN	DATE	REV	DATE	CHKD	DESC
PR							
PR SS							
PR SAN							
PR RW							
PR SDSW							
ROW							
CUT							

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CI_XS_Bernard.dgn



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DSGN.	
DWN.	
CHKD.	
SCALE:	HORZ. 5 VERT. 2
PLOT DATE:	11/1/2023
CAD USER:	jsltrick
MODEL:	Default

TITLE:

BERNARD DR

STA. 77+00.00 – STA. 77+23.75

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	85 OF 97
DRAWING NO.	XS27

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
EX SS							
EX SAN							
EX WM							
EX STM							
EX TEL							

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
PR							
PR SS							
PR SAN							
PR WM							
PR STRM							
ROW							
CUT							

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CL-XS-Bernard.dgn

45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50

690 688 686 684 682 680 678 676 674

EXISTING ROW

DRIVEWAY

15.43 %

686.12 1.5% 686.06 9.61% 685.44 685.38 1.50% 685.60 3.00 % 685.15 1.12 % 684.86

DIANE DR

EX WM 10"

PR SS 36"

EX SAN 8"

77+83.90

77+83.90

Cut = 36.0 Fill = 0.0

EXISTING ROW

686.50 1.5% 686.44 9.38% 685.84 685.56 1.50% 685.79 3.00% 685.33 685.60 3.51% 685.46 1.5% 685.58 EXISTING ROW

EX WM 10"

PR SS 36"

EX SAN 8"

77+50.00

77+50.00

Cut = 25.6 Fill = 2.5

45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50

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DSGN.		
DWN.		
CHKD.		
SCALE:	HORZ. 5 VERT. 2	
PLOT DATE:	11/1/2023	
CAD USER:	jsltrick	
MODEL:	Default	

TITLE:

BERNARD DR

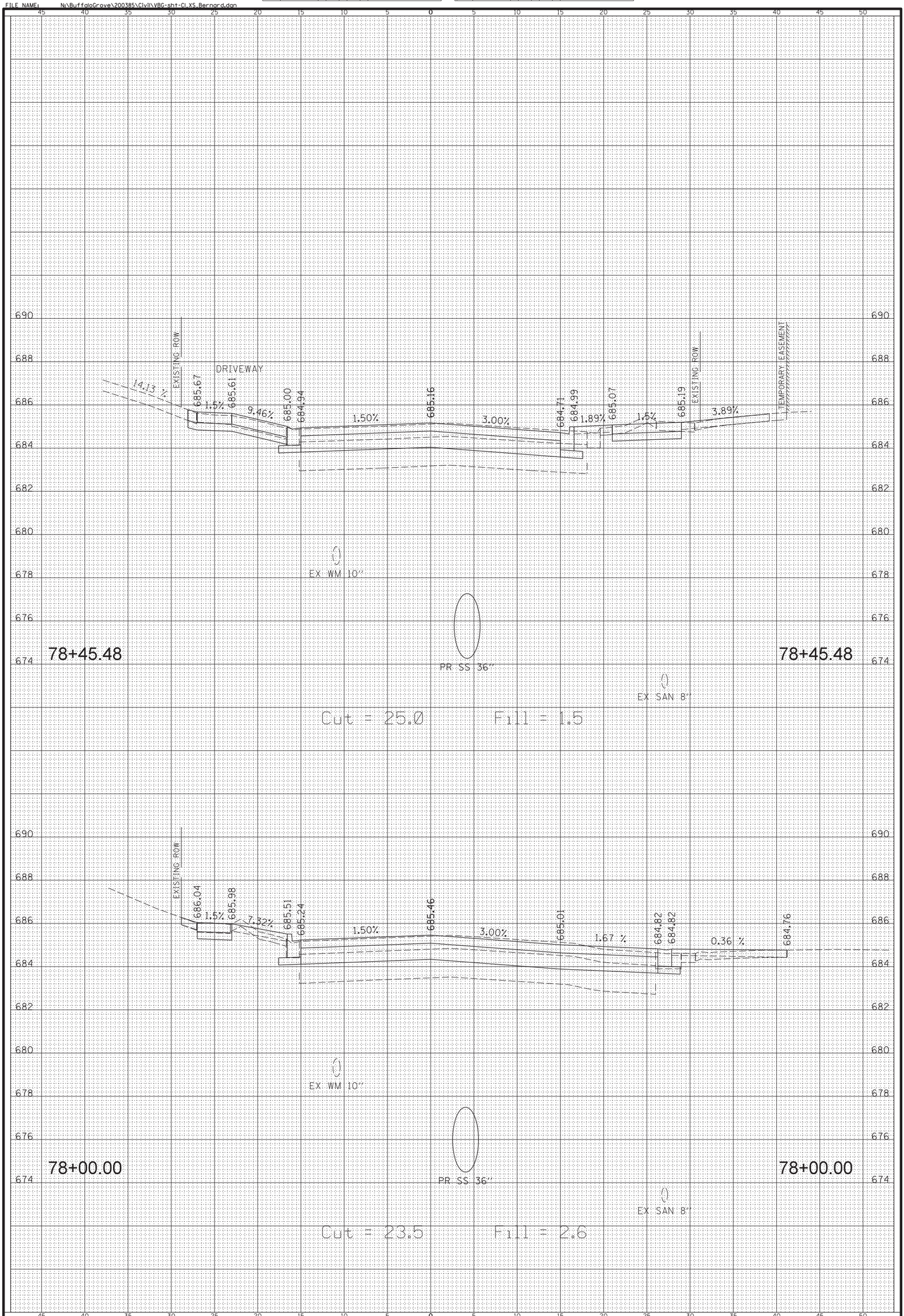
STA. 77 + 50.00 – STA. 77 + 83.90

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	86 OF 97
DRAWING NO.	XS28

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
EX SS							
EX SAN							
EX WM							
EX SWR							
EX TEL							

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
PR							
PR SS							
PR SAN							
PR WM							
PR SSTOM							
PSWR							
CAT							

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CL-XS-Bernard.dgn



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DSGN.		
DWN.		
CHKD.		
SCALE:	HORZ. 5 VERT. 2	
PLOT DATE:	11/1/2023	
CAD USER:	jsltrick	
MODEL:	Default	

TITLE:

BERNARD DR

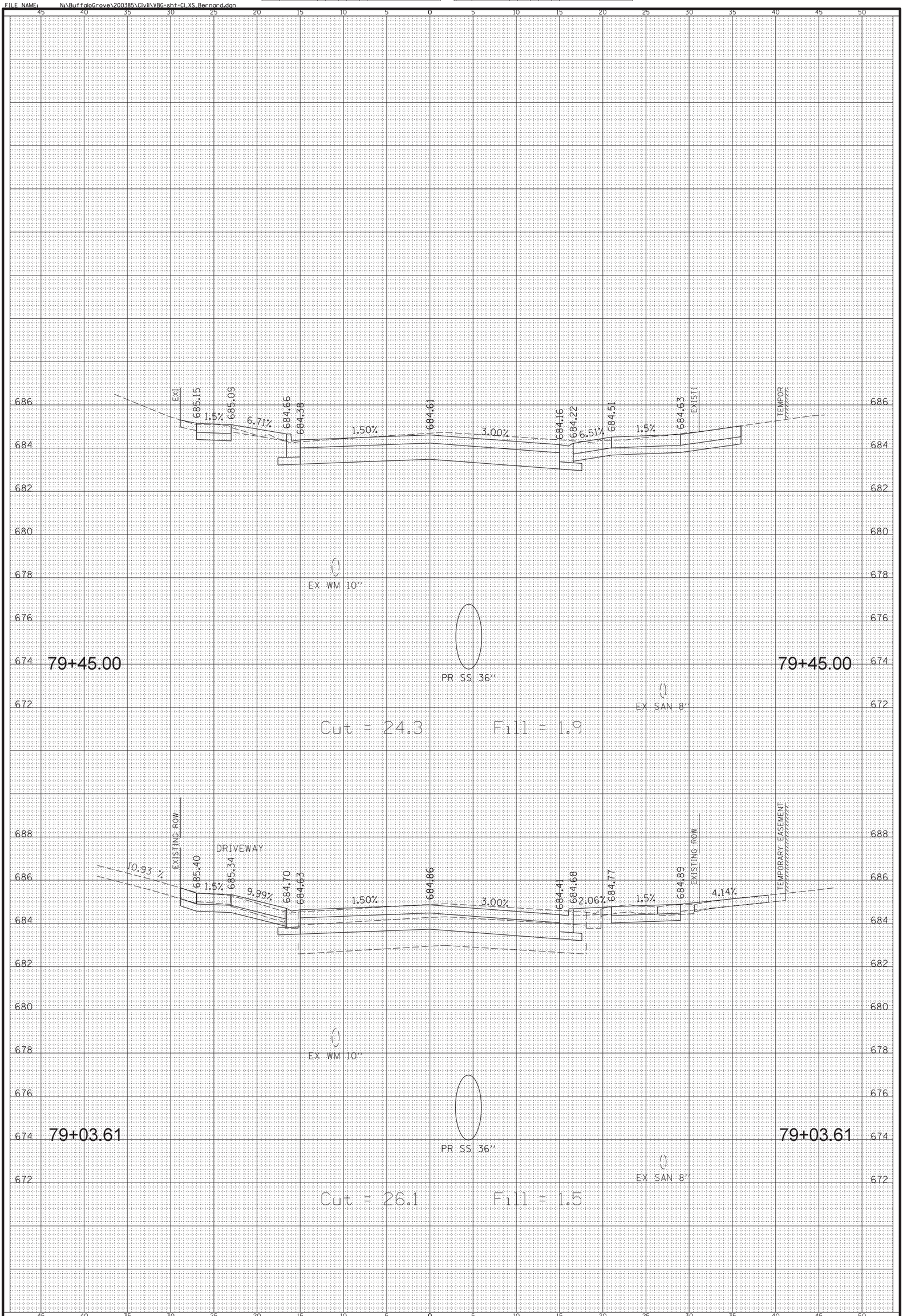
STA. 78+00.00 – STA. 78+45.48

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	87 OF 97
DRAWING NO.	XS29

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
EX SS							
EX SAN							
EX WM							
EX TEL							

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
PR SS							
PR SAN							
PR WM							
PR STORM							
ROW							
CUT							

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CI_XS_Bernard.dgn



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DSGN.	
DWN.	
CHKD.	
SCALE:	HORZ. 5 VERT. 2
PLOT DATE:	11/1/2023
CAD USER:	jsltrick
MODEL:	Default

TITLE:

BERNARD DR

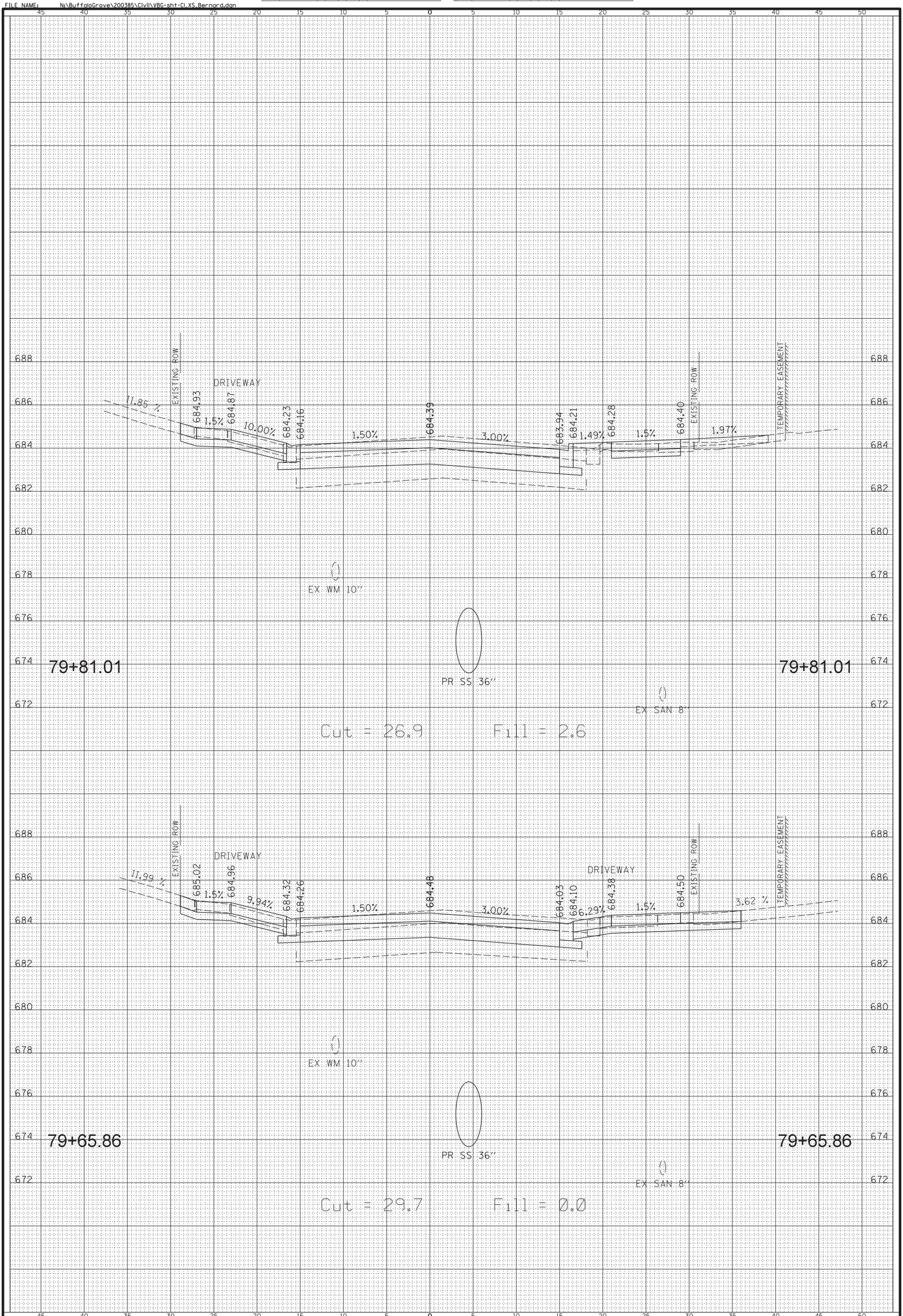
STA. 79+03.61 – STA. 79+45.00

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	88 OF 97
DRAWING NO.	XS30

	GEOPHI	DRWN	DATE	REV	DATE	CHKD	DESC
EX SS							
EX SAN							
EX WM							
EX TEL							

	GEOPHI	DRWN	DATE	REV	DATE	CHKD	DESC
PR							
PR SS							
PR SAN							
PR WM							
PR SSTEM							
ROW							
CUT							

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CL-XS-Bernard.dgn



CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

CLIENT:

Village of Buffalo Grove
51 RAUPP BOULEVARD
BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

DSGN.	
DWN.	
CHKD.	
SCALE:	HORZ. 5 VERT. 2
PLOT DATE:	11/1/2023
CAD USER:	jsltrick
MODEL:	Default

TITLE:

BERNARD DR

STA. 79+65.86 – STA. 79+81.01

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	89 OF 97
DRAWING NO.	XS31

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
EX							
EX SS							
EX SAN							
EX WM							
EX TEL							

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
PR							
PR SS							
PR SAN							
PR WM							
PR SSTEM							
ROW							
CUT							

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CLXS_Bernard.dgn

45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50

688 686 684 682 680 678 676 674 672

LAUREN LN

EXISTING ROW

684.35 1.5% 684.29 6.75% 683.85 683.58 1.50% 683.81 1.50 % 683.58 1.02 % 683.82

EX WM 10"

PR SS 36"

EX SAN 8"

80+64.18 80+64.18

Cut = 36.4 Fill = 0.3

EXISTING ROW

684.80 1.5% 684.74 6.75% 684.30 684.03 1.50% 684.26 3.00% 683.81 684.08 1.72% 684.15 1.5% 684.27 EXISTING ROW 2.68% TEMPORARY EASEMENT

EX WM 10"

PR SS 36"

EX SAN 8"

80+00.00 80+00.00

Cut = 28.8 Fill = 2.4

45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50

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BUFFALO GROVE, ILLINOIS 60089
(847) 459-2500

DSGN.	
DWN.	
CHKD.	
SCALE:	HORZ. 5 VERT. 2
PLOT DATE:	11/1/2023
CAD USER:	jsltrick
MODEL:	Default

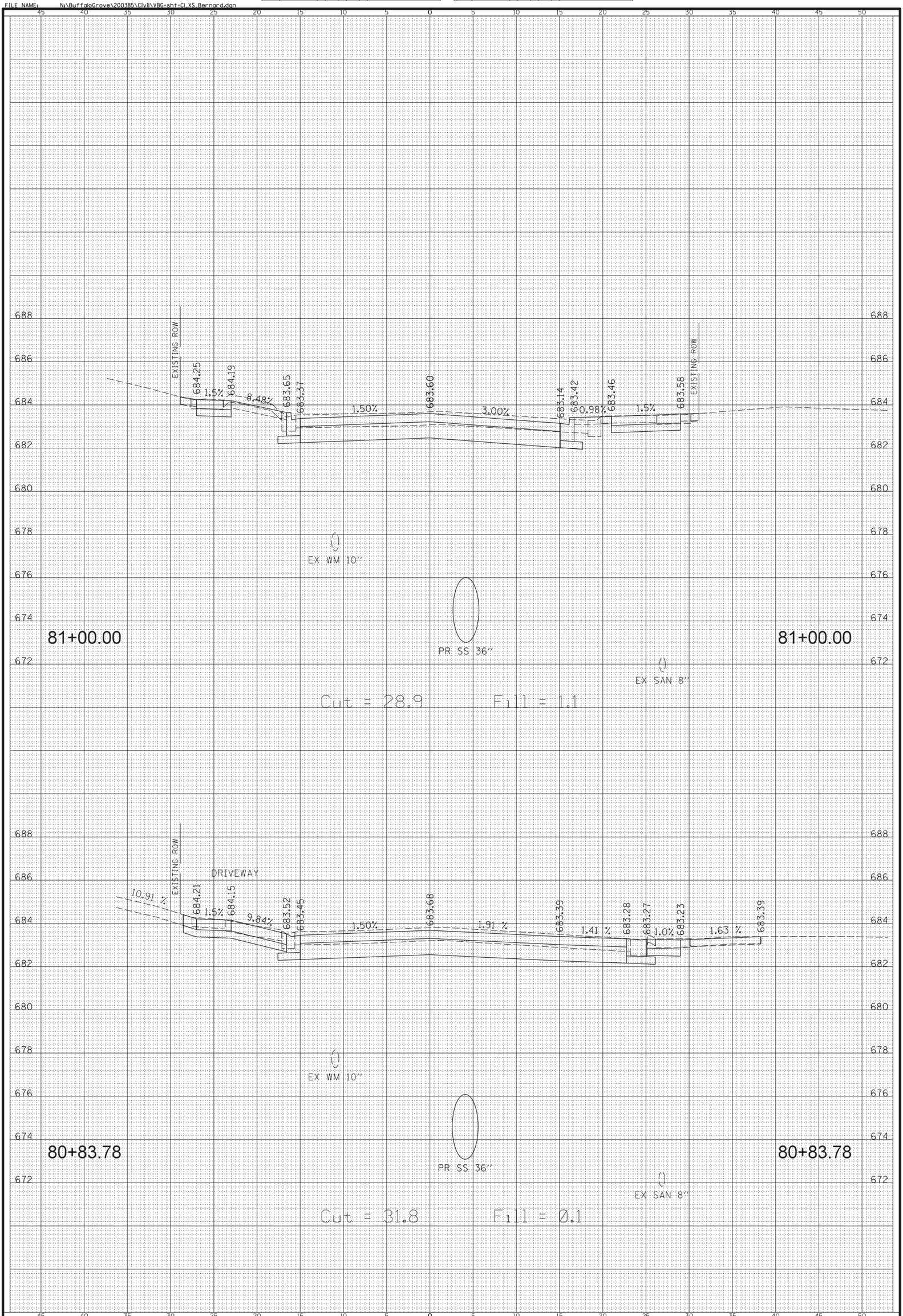
TITLE:

BERNARD DR

STA. 80+00.00 – STA. 80+64.18

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	90 OF 97
DRAWING NO.	XS32

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CI_XS_Bernard.dgn



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(847) 459-2500

DSGN.	
DWN.	
CHKD.	
SCALE:	HORZ. 5 VERT. 2
PLOT DATE:	11/1/2023
CAD USER:	jsltrick
MODEL:	Default

TITLE:

BERNARD DR

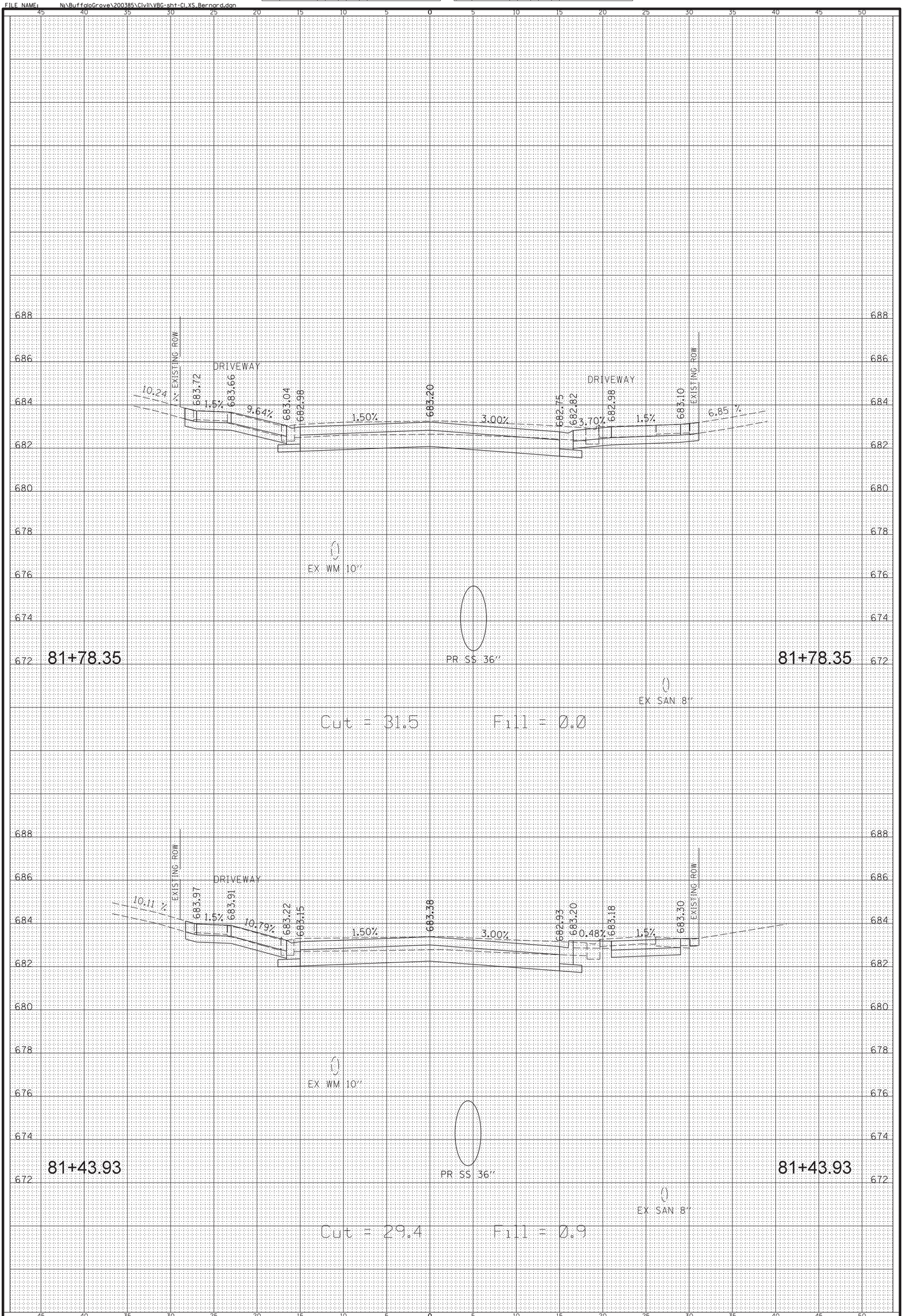
STA. 80 + 83.78 – STA. 81 + 00.00

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	91 OF 97
DRAWING NO.	XS33

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
EX SS							
EX SAN							
EX WM							
EX TEL							

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
PR SS							
PR SAN							
PR WM							
PR SSTOM							
ROW							
CUT							

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CI_XS_Bernard.dgn



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(847) 459-2500

DSGN.		
DWN.		
CHKD.		
SCALE:	HORZ. 5 VERT. 2	
PLOT DATE:	11/1/2023	
CAD USER:	jsltrick	
MODEL:	Default	

TITLE:

BERNARD DR

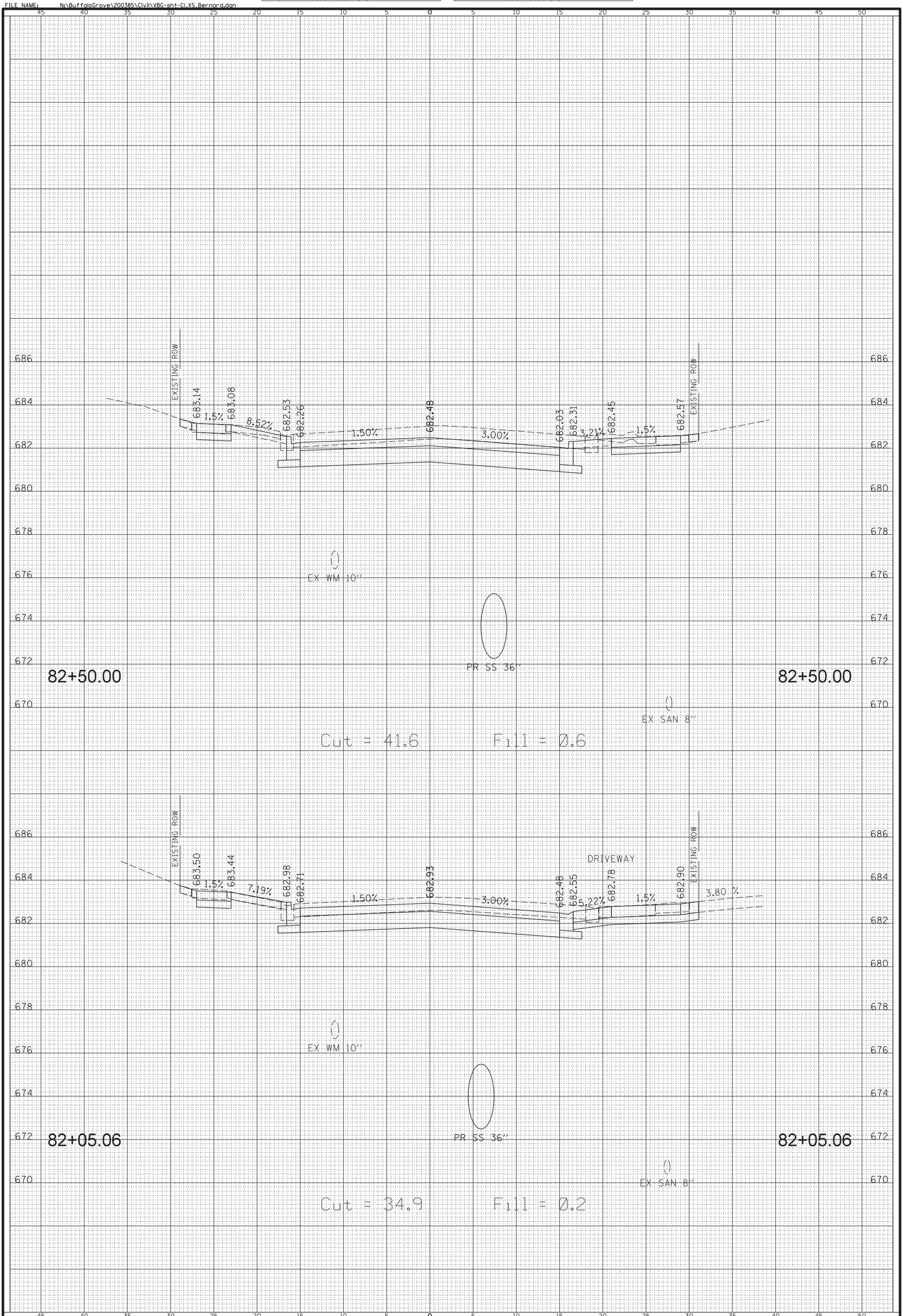
STA. 81 + 43.93 – STA. 81 + 78.35

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	92 OF 97
DRAWING NO.	XS34

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
EX SS							
EX SAN							
EX WM							
EX SS							

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
PR							
PR SS							
PR SAN							
PR WM							
PR SSTOM							
ROW							
CUT							

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CI_XS_Bernard.dgn



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(847) 459-2500

DSGN.	
DWN.	
CHKD.	
SCALE:	HORZ. 5 VERT. 2
PLOT DATE:	11/1/2023
CAD USER:	jsltrick
MODEL:	Default

TITLE:

BERNARD DR

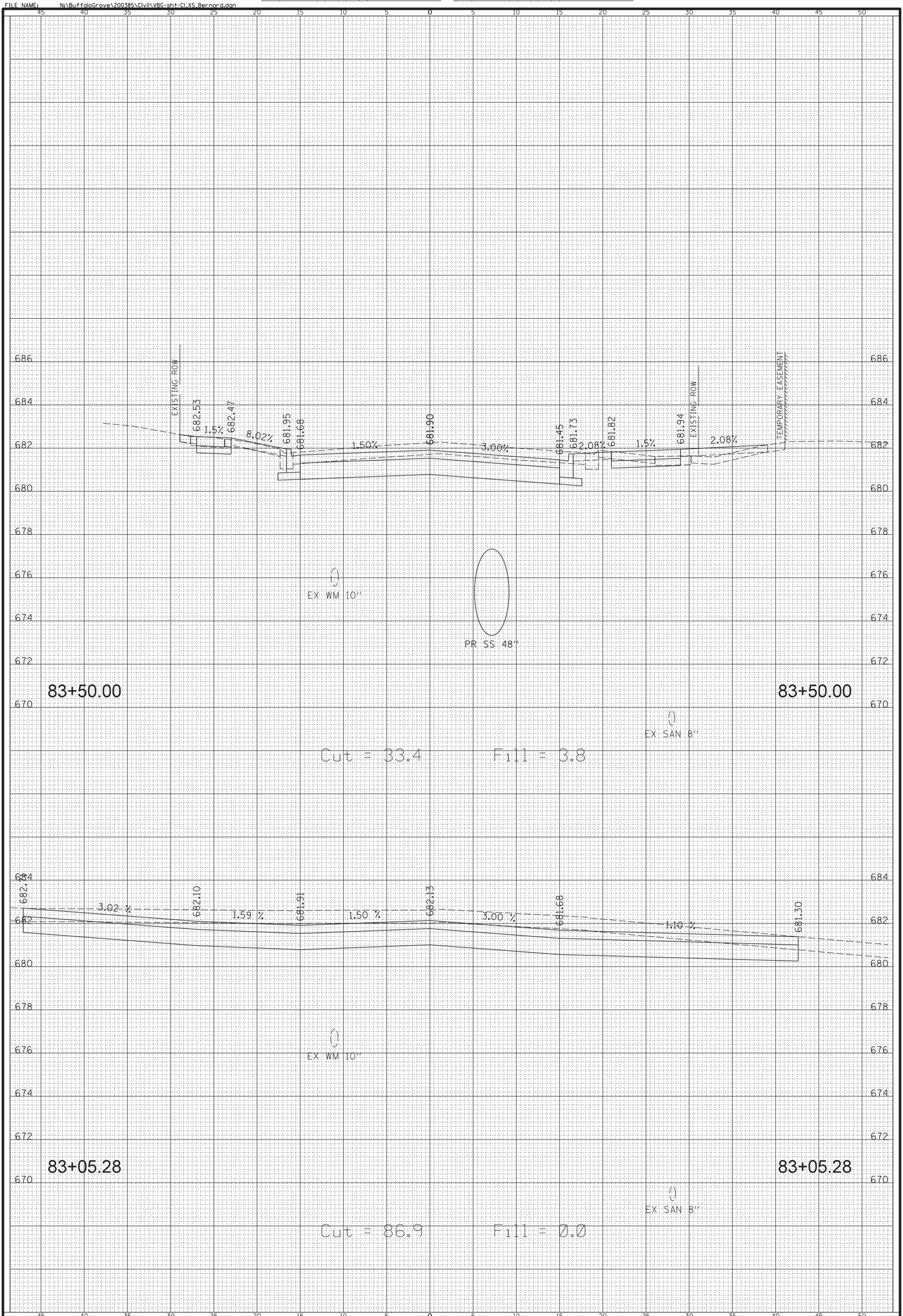
STA. 82 + 05.06 – STA. 82 + 50.00

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	93 OF 97
DRAWING NO.	XS35

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
EX SS							
EX SAN							
EX WM							
EX TEL							

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
PR SS							
PR SAN							
PR WM							
PR STORM							
ROW							
CUT							

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CI_XS_Bernard.dgn



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(847) 459-2500

DSGN.	
DWN.	
CHKD.	
SCALE:	HORZ. 5 VERT. 2
PLOT DATE:	11/1/2023
CAD USER:	jsltrick
MODEL:	Default

TITLE:

BERNARD DR

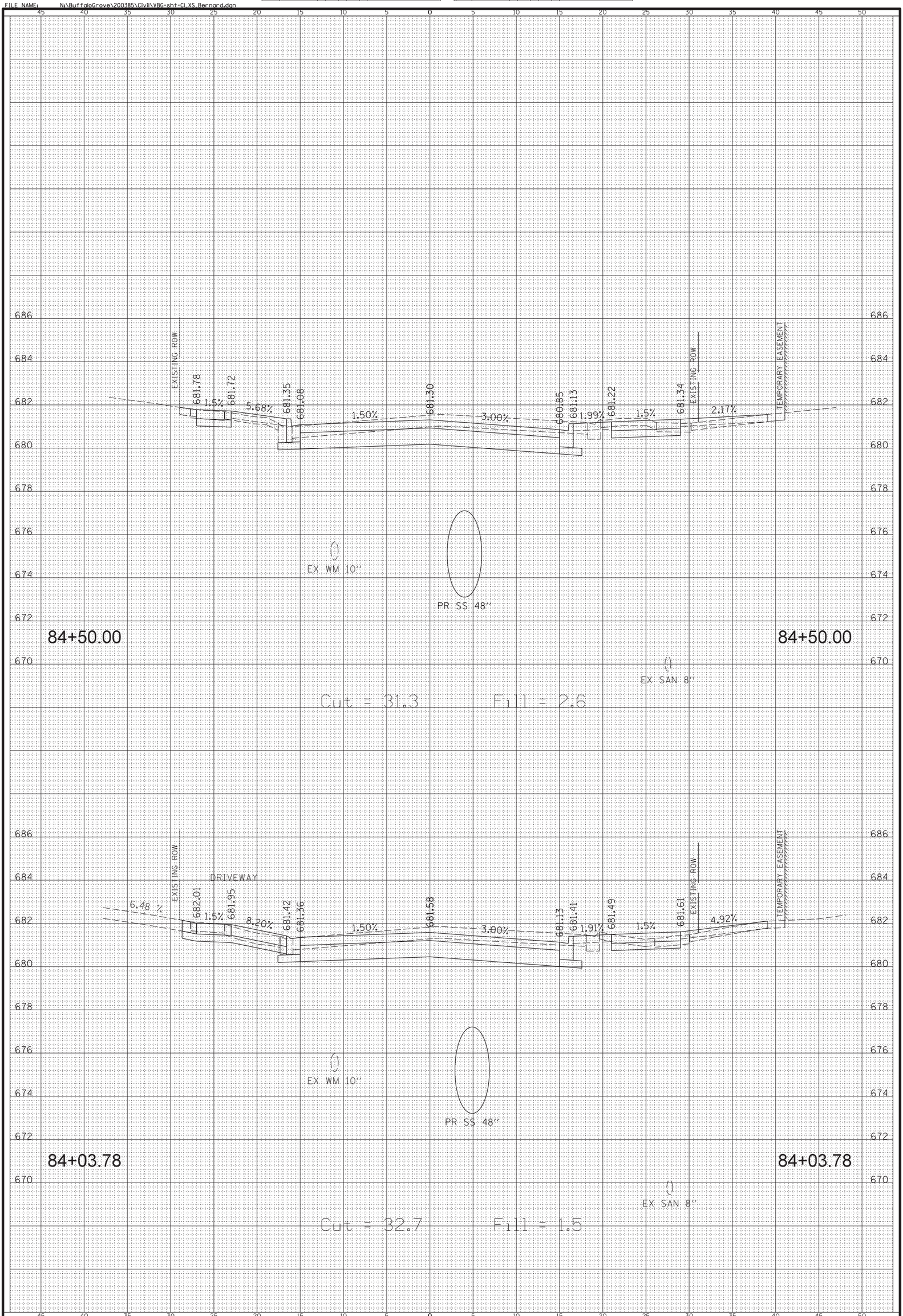
STA. 83+05.28 – STA. 83+50.00

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	94 OF 97
DRAWING NO.	XS36

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
EX SS							
EX SAN							
EX WM							
EX TEL							

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
PR							
PR SS							
PR SAN							
PR WM							
PR DITCH							
ROW							
CUT							

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CL-XS_Bernard.dgn



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(847) 459-2500

DSGN.	
DWN.	
CHKD.	
SCALE:	HORZ. 5 VERT. 2
PLOT DATE:	11/1/2023
CAD USER:	jsltrick
MODEL:	Default

TITLE:

BERNARD DR

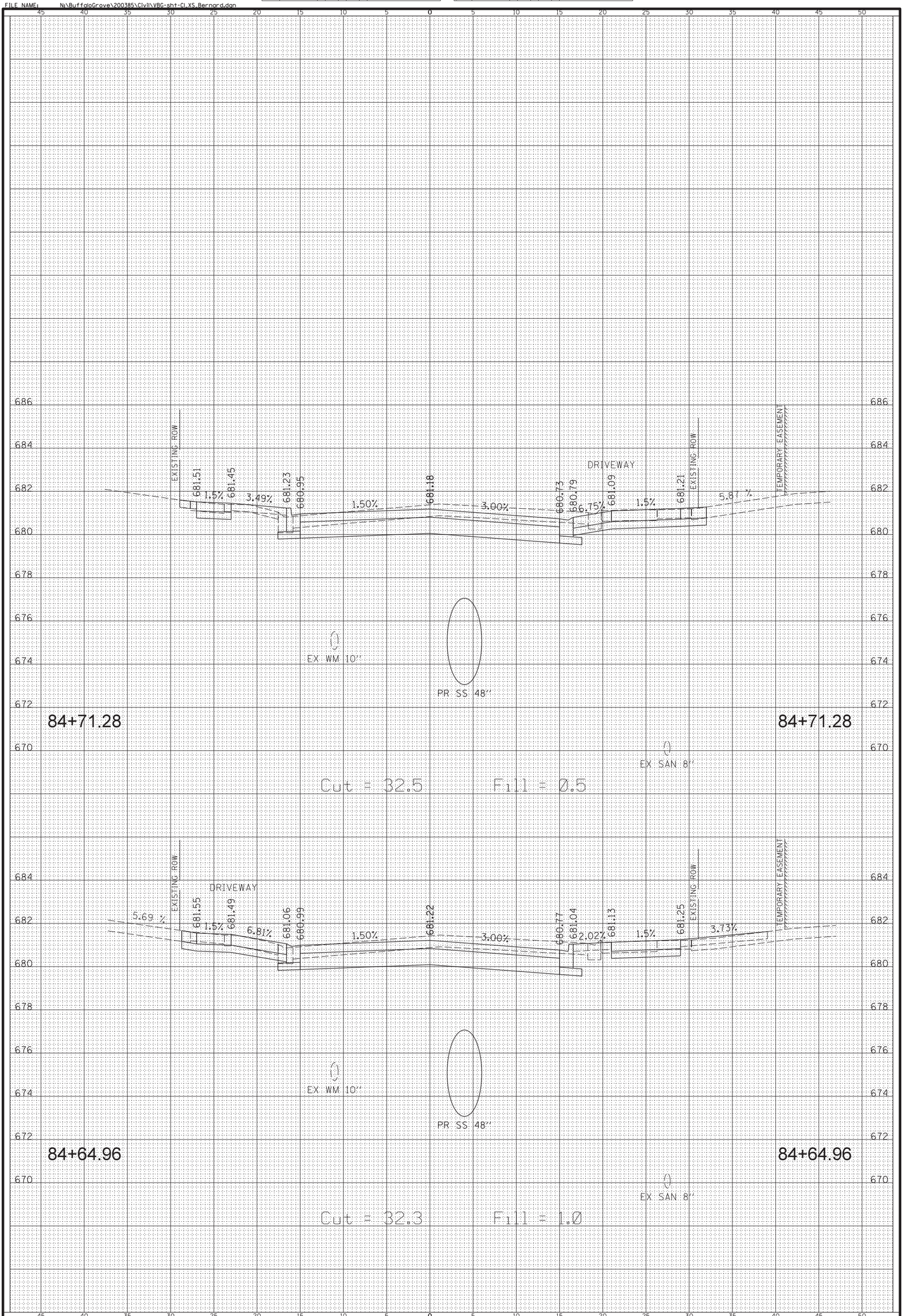
STA. 84 + 03.78 – STA. 84 + 50.00

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	95 OF 97
DRAWING NO.	XS37

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
EX SS							
EX SAN							
EX WM							
EX TEL							

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
PR SS							
PR SAN							
PR WM							
PR STORM							
ROW							
CUT							

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CI_XS_Bernard.dgn



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DSGN.		
DWN.		
CHKD.		
SCALE:	HORZ. 5 VERT. 2	
PLOT DATE:	11/1/2023	
CAD USER:	jsltrick	
MODEL:	Default	

TITLE:

BERNARD DR

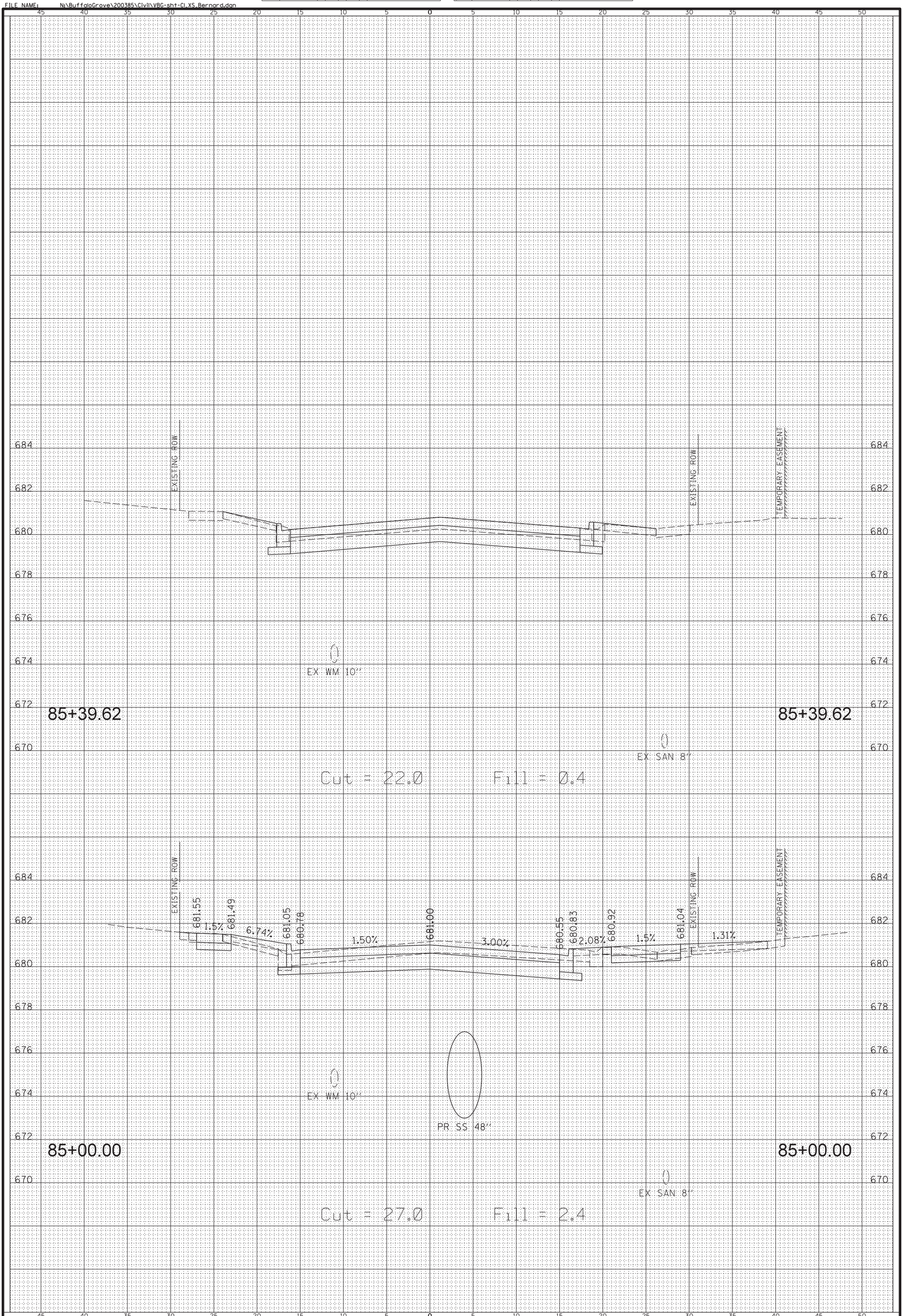
STA. 84 + 64.96 – STA. 84 + 71.28

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	96 OF 97
DRAWING NO.	XS38

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
EX SS							
EX SAN							
EX WM							
EX TEL							

	GEOPHX	DRWN	DATE	REV	DATE	CHKD	DESC
PR SS							
PR SM							
PR SAN							
PR WM							
PR STORM							
ROW							
CUT							

FILE NAME: N:\BuffaloGrove\200385\Civil\VBG-sht-CI_XS_Bernard.dgn



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DSGN.	
DWN.	
CHKD.	
SCALE:	HORZ. 5 VERT. 2
PLOT DATE:	11/1/2023
CAD USER:	jsltrick
MODEL:	Default

TITLE:

BERNARD DR

STA. 85+00.00 – STA. 85+39.62

PROJ. NO.	200385
DATE:	11/1/2023
SHEET	97 OF 97
DRAWING NO.	XS39