

Board of County Commissioners
Sarpy County, Nebraska

RESOLUTION

WHEREAS, Sanitary and Improvement District No. 257 of Sarpy County, Nebraska, herinafter SID #257, has submitted plans to the Sarpy County Public Works for certain public improvements to the Meridian Park subdivision in Sarpy County Nebraska, for certain improvements for paving, storm sewer and sanitary sewer; and,

WHEREAS, SID #257 has requested approval of said plans for public improvements pursuant to Neb. Rev. Stat. §31-740 (Reissue 2008); and,

WHEREAS, said improvements are in compliance with established standards and specifications.

NOW THEREFORE, BE IT RESOLVED that the proposal for SID #257 for paving, storm sewer and sanitary sewer improvements, as submitted to and recommended by the Sarpy County Public Works office are hereby approved.

Dated this 9th day of August, 2011.

Moved by Rusty Hike, seconded by Jim Warren, that the above Resolution be adopted. Carried

Yeas: Rusty Hike Nays: None Absent: None

James W. ... _____

... _____

Tom Richard _____ Abstain: _____

_____ Abstain: None

Renee Louman
County Clerk: Ryndy



Approximate Quantities Meridian Park Section V 3-22-11

Item #	Description	Quantity	Unit	Price per Unit	Price
1	Construct 8" Sanitary Sewer Pipe	1500	LF	\$ 19.00	\$ 28,500.00
2.	Construct 6" Sanitary Sewer Pipe	2010	LF	\$ 19.00	\$ 38,190.00
3.	Construct 54" I.D. Sanitary Manhole (10)	125	VF	\$ 190.00	\$ 23,750.00
4.	Connect to Existing SS	4	EA	\$ 500.00	\$ 2,000.00
5.	Sediment Control (Remove Silt)	500	CY	\$ 6.00	\$ 3,000.00
6.	Earthwork (Pavement Subgrade)	1390	CY	\$ 1.30	\$ 1,807.00
7.	Sawcut & Remove Existing Curb	140	LF	\$ 7.00	\$ 980.00
8.	Construct 7" PCC Pavement w/ Int. Curb	4175	SY	\$ 25.00	\$ 104,375.00
9.	Construct Street Name Sign and Post	4	EA	\$ 200.00	\$ 800.00
10.	Adjust Manhole to Grade	8	EA	\$ 160.00	\$ 1,280.00
11.	Remove End-of-Road Markers	6	EA	\$ 17.00	\$ 102.00
12.	Remove and Replace Paving	270	SY	\$ 35.00	\$ 9,450.00
13.	Construct 15" RCP, Class III	60	LF	\$ 23.00	\$ 1,380.00
14.	Construct 18" RCP, Class III	220	LF	\$ 28.00	\$ 6,160.00
15.	Construct Curb Inlet, Type I	2	EA	\$ 2,000.00	\$ 4,000.00
16.	Construct Curb Inlet, Type III	2	EA	\$ 2,000.00	\$ 4,000.00
17.	Connect to Existing Storm	1	EA	\$ 1,000.00	\$ 1,000.00
				estimate	\$ 230,774.00
				est + overhead	\$ 323,083.60
				bid bond	\$ 11,538.70



SARPY COUNTY

Dennis L. Wilson P.E.
Sarpy County Engineer

PUBLIC WORKS DEPARTMENT
15100 South 84th Street • Papillion, Ne 68046-2895
Phone (402) 537-6900 • FAX (402) 537-6955 • www.sarpy.com

MEMO

TO: Sarpy County Board of Commissioners

FROM: Sarpy County Public Works Department

DATE: August 1, 2011

SUBJECT: S.I.D. 257, MERIDIAN PARK REPLAT III
Paving, Storm Sewer and Sanitary Sewer Construction & Estimated Costs
Designed by E & A CONSULTING GROUP, INC.

Our review of the proposal for the subject paving, storm sewer and sanitary sewer construction and its estimated costs indicates that the plans will, if followed, produce a system in accordance with the minimum standards and regulations set forth in the Zoning and Regulations adopted April 13, 2010 by the Sarpy County Board of Commissioners.

These plans will be filed as permanent records of the project by this office. If the Board members wish to personally review the subject plans, we will be happy to furnish them upon request.

It is therefore recommended that the referenced plans be approved for construction as submitted to this department.

Respectfully submitted,

Bill Herr
Design Engineering Manager

CC: Planning Department
Kyle Vohl, P.E., E&A Consulting Group

GENERAL CONSTRUCTION NOTES

- The time limit to complete all work shall be 25 working days.
- All project procedures, materials, bonds and reserves shall conform to the City of Omaha Specifications for Public Works Construction 2003, Third Edition, and any additions thereto. It will be the responsibility of the CONTRACTOR to be aware of the contents of the aforementioned specifications. The aforementioned publication can be found at <http://www.ci.omaha.ne.us/publicworks/contractorconsultant2.htm>
- Barricades shall conform to Omaha Public Works "Barricading Standards, Specifications, Methods & Materials", and/or the "Manual on Uniform Traffic Control Devices", and any additions thereto. The aforementioned publications can be found at <http://www.ci.omaha.ne.us/publicworks/contractorconsultant2.htm>.
- The INSPECTOR must assure the CONTRACTOR adheres to and meets all construction specifications & plans; maintenance, safety, workmanship, & testing requirements; and applicable regulatory compliance issues.
- Approval must be obtained from the Sarpy County Engineers Office for all applicable public improvements prior to the commencement of construction. The CONTRACTOR shall check with the Engineer for approval of the project before starting work.
- The CONTRACTOR and INSPECTOR must assure all impacted government agencies (Sarpy County, State of Nebraska, Corps of Engineers, Papio-Missouri River Natural Resource District, United States Federal Government, etc.) have granted all applicable permission to proceed with construction prior to mobilization. Furthermore, 48 hours prior to the commencement of construction, the INSPECTOR must notify all concerned parties that work will be proceeding within each impacted government agency jurisdictional boundary.
- Construction found to be unacceptable to the Sarpy County Engineers Office shall be removed and replaced at the CONTRACTOR'S expense.
- The INSPECTOR must notify the following Sarpy County Engineers Office personnel 48 hours prior to all reconstruction meetings and 48 hours prior to the start of any construction: Matt Grosse (Phone: 402-444-5282; email: mgrosse@ci.omaha.ne.us) and Traffic Maintenance (Phone: 402-444-5160).
- All operations conducted on the premises, including the warming-up, repair, arrival, departure, or running of trucks, earthmoving equipment, construction equipment, and any other associated equipment shall be limited to the period between 7:00 A.M. and 6:00 P.M. Monday thru Friday; and, no earthmoving or grading operations shall be conducted on the premises on Saturdays or Sundays or legal holidays, unless waived by the INSPECTOR and Sarpy County Engineers Office.
- The CONTRACTOR shall notify all impacted utility companies via One Call (402-344-3565), 48 hours before work is started to verify utility locations.
- The existence and location of any overhead or underground utility lines, pipes, or structures shown on these plans are obtained by a research of the available records. Existing utilities are approximate and for record purposes. Existing utilities are located on plans only for the convenience of the CONTRACTOR. Existing utility service laterals may not be shown on the plans. The CONTRACTOR shall locate all underground and overhead interference's which may affect his operation during construction and shall take all necessary precautions to avoid damage to same.
- The CONTRACTOR shall take all precautionary measures necessary to protect existing utility lines, structures and street improvements which are to remain in place, from damage, and all such improvements or structures damaged by the CONTRACTOR'S operations shall be repaired or replaced satisfactory to the INSPECTOR and owning utility company at the expense of the CONTRACTOR.
- All construction shall be as shown on these plans. Any revisions shall have the prior written approval of the DESIGNER.
- Construction may require the disturbance of existing drainage and erosion control measures. The CONTRACTOR shall make himself aware of the existing drainage and erosion control measures prior to bidding this work. A copy of the Grading and Erosion Control Plan is available for review at the office of the DESIGNER and INSPECTOR. The function of these items must be maintained throughout construction with emphasis placed on restoring their integrity prior to any rainfall event. Erosion control improvements have been constructed on this site, including terraces, silt fencing, and temporary sediment basins. The CONTRACTOR shall be responsible for prompt reconstruction of any erosion control improvements disturbed by his operations. All disturbed erosion control improvements shall be fully reconstructed at the end of each working day prior to leaving the site.
- Elevations are reference to U.S.G.S. Datum.
- CONTRACTOR shall adjust all new and existing inlets, valve boxes, manhole rims, and sewer clean outs, etc. to finish grade as applicable whether or not they are shown on the plans.
- The CONTRACTOR must adhere to good housekeeping best management practices at all times. Good housekeeping best management practices focus on keeping the work site clean and orderly while handling materials and waste in a manner that eliminates the potential for pollutant runoff.
- The construction documents (e.g., Contract, Bond, Insurance, Specifications, and Plans) are essential and a requirement in one part is as binding as though occurring in all. Thus, the construction documents are complementary in nature. The documents describe and provide the complete construction project. The CONTRACTOR may not take advantage of any apparent construction project errors or omissions. The CONTRACTOR shall notify the INSPECTOR promptly of any omissions or errors. In the case of a discrepancy between parts of the construction documents, the most stringent construction methodology shall rule.

GENERAL CONSTRUCTION NOTES

- The Contractor shall be responsible for coordinating their work with the Engineer in requesting line stakes and grades. The Owner will not be responsible for delays due to lack of grades or line stakes.
 - The Contractor shall be charged for replacing construction stakes and lot pins which are destroyed by his operations.
 - The Contractor is hereby referred to Subsection 4.07 of the Standard Specifications relative to cleaning of the work area. The final estimate will not be processed until the Contractor has satisfactorily cleaned and flushed the pavement slab of all rubbish, excess material, mud and debris, and all parts of the work area have been left in a neat and presentable manner. All disturbed right-of-way areas shall be restored to a level and smooth section prior to acceptance of the work.
 - The Contractor shall seed all non-paved areas disturbed by construction.
- The Contractor shall place silt fence as shown and as directed by the Engineer to prevent sediment from leaving the construction site.

ITEMS	STANDARD PLATE NO.
25' Concrete Pavement	1-10
Concrete Pavement Joint Details	1-50
Misc. Concrete Pavement Details	1 - 60
Concrete Curb Details	1-52
Concrete Curb Ramp and Details	1-62
Sewer Bedding Detail	3-01
Cast Iron Manhole Rings, Covers, Manhole Steps	3-90 (1 & 2)
Manhole Detail	708
Curb Inlet - Type I	721-1

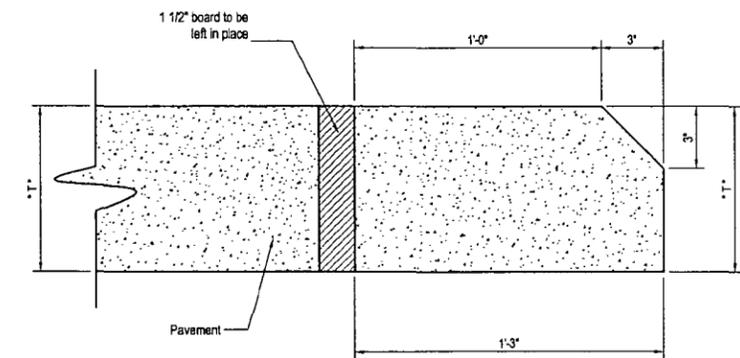
Standard Plates are available from the City of Omaha Public Works Department, 1819 Famam St., Suite 600, Omaha NE 68183, PH 402.444.5220. Plates may also be downloaded via the internet from the City of Omaha Web Site at : <http://www.ci.omaha.ne.us/publicworks/standard%20plate%20list.htm>

STORM SEWER CONSTRUCTION NOTES

- All project procedures, materials, bonds and reserves shall conform to the City of Omaha Specifications for Public Works Construction, 2003 Third Edition, and any additions thereto. The aforementioned publication can be found at <http://www.ci.omaha.ne.us/publicworks/contractorconsultant2.htm>.
- The storm sewer system (pipe, manholes, inlets, special structures, etc.) shall be placed, compacted, and backfilled in accordance with City of Omaha Specifications for Public Works Construction.
- PCC manholes, inlets, appurtenances, and special structures meeting all City of Omaha Specifications for Public Works Construction must be used for storm sewer construction.
- The INSPECTOR must assure all storm sewer lines, manholes, and inlets are cleaned of debris (leaves, stone, dirt, construction material, etc.) prior to the APPLICANT taking ownership.
- PCC pipe meeting all City of Omaha Specifications for Public Works Construction must be used for storm sewer construction.
- The INSPECTOR must insure all storm sewer pipe used for construction has been certified by the American Concrete Pipe Association (ACPA). All pipe must display the Q-CAST symbol to verify the manufacturer has met the ACPA's certification program. Visual inspections for defects shall continue to take place on the site.
- All inlet structures will be located in the field by the Engineer.
- Curb inlets shall be constructed in conformance with City of Omaha Standard Plate No. 721; with standard cover casting, ring castings, and steps in conformance with Standard Plate No. 3 - 90. Inlet Covers shall be constructed with armor facing in conformance with City of Omaha Standard Plate No. 3-30
- Additional Crushed Rock Bedding for the sewers shall be placed at locations where unstable trench bottom conditions are encountered in accordance with Subsection 701.03 (K) of the Standard Specifications, as approved by the Engineer per Standard Plate No. 3 - 01. The cost of necessary crushed rock bedding will be paid at \$16.00 per ton installed.
- All Storm Sewer Pipe shall be bedded with rock bedding in accordance with Standard Plate No. 3-01. Soil bedding is not acceptable.
- Joints for storm sewer pipes are required to have a fabricated gasket or bitumastic sealant.

PAVEMENT CONSTRUCTION NOTES

- All project procedures, materials, bonds and reserves shall conform to the City of Omaha Specifications for Public Works Construction, 2003 Third Edition, and any additions thereto. The aforementioned publication can be found at <http://www.ci.omaha.ne.us/publicworks/contractorconsultant2.htm>.
- Pavement subgrade shall be prepared and compacted in accordance with City of Omaha Specifications for Public Works Construction.
- Concrete for the pavement slab shall be 7" thick concrete class "L60" air-entrained concrete made from Type 1 Portland Cement in accord with the City of Omaha Specifications for Public Works Construction unless otherwise shown on plans.
- Street radii are 20 feet unless noted otherwise on the plans.
- All integral curbs shall be type "C" in accordance with City of Omaha Standard Plate 301 unless otherwise shown on plans.
- Water-reducing admixture shall be added to all hand-placed and finished concrete.
- Paving widths shall be as shown on plans. All dimensions shown are back of curb to back of curb.
- A diamond edge saw blade shall be used for cutting all required contraction and longitudinal pavement joints.
- The CONTRACTOR shall construct, with the INSPECTORS assurance of conformity, ADA compliant curb ramps at all intersection returns where new sidewalk is constructed, as well as where existing sidewalk has been removed. All ADA compliant curb ramps shall conform to the City of Omaha Public Works Department Standard Plate # 1-82 and Curb Ramp Design Guideline (Special Detail # 1082), and any additions thereto. Truncated Domes shall be selected from the list of approved products and shall be "RED BRICK" in color. The aforementioned publication can be found at <http://www.ci.omaha.ne.us/publicworks/contractorconsultant2.htm>.
- Within one (1) hour the concrete pavement shall be cured using a white pigmented liquid membrane-forming curing compound that has been approved by the State of Nebraska Department of Roads. Apply liquid membrane-forming curing compound at the concentration and application rate recommended by the manufacturer.
- The work under Bid Item "Earthwork (Subgrade Preparation)" includes the adjustment of the subgrade under all areas to be surfaced including driveways, intersections, and the area 48 inches beyond the longitudinal edges of the pavement or the backs of curbs for proper placing of the pavement slab. The Contractor shall scarify and recompact the subgrade to a depth of one foot. The top 12" of subgrade as described shall be compacted to 90% maximum dry density as determined in accordance with the most current edition of ASTM D1557 (Modified Method) with moisture limits of -3% to +4% optimum.
- If adverse weather conditions persist and paving subgrade becomes too wet for the Contractor to work and meet the requirements of the Standard Specifications, the Engineer shall determine and direct the Contractor to use a fly ash stabilized subgrade. The fly ash shall be applied at a rate of 15 to 20 pounds per square yard. Contractor shall thoroughly mix Fly Ash to a depth of 6 to 8 inches. Contractor shall be paid for the actual cost of the materials plus five percent (5%) and shall be paid for the actual cost of labor and equipment necessary to place and work the fly ash into the subgrade.
- Under no conditions will heavy equipment be allowed on concrete paving without proper planking or bridging, and then only with the express approval of the Engineer. The pavement shall be open for use in accordance with Section 501.03 (J) of the City of Omaha Standard Specifications, 2003 Edition.
- All intersections shall be warped as directed by the Engineer in the field to ensure positive drainage.
- Thickened Edges per City of Omaha Standard Plate No. 1 - 50 and 1 - 60 are required at locations where proposed paving ties into existing paving. Thickened Edges will not be paid for directly, but shall be subsidiary to items for which payment is made. Doweled joints will be required as directed by the Engineer.
- Curb drops to accommodate the future construction of wheel chair ramps (which are not included in this contract) shall be constructed at all radius returns per Standard Plate No. 1 - 82. No separate payment shall be made for drop curbs, but said work shall be subsidiary to those items for which payment is made.



NOTES

- Construction of concrete pavement and appurtenances shall be in accordance with Section 500 of the Standard Specifications.
- Contraction joints shall be constructed to match locations of existing joints.

**CONCRETE HEADER
NOT TO SCALE**



SANITARY SEWER CONSTRUCTION NOTES

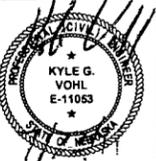
- All project procedures, materials, bonds and reserves shall conform to the City of Omaha Specifications for Public Works Construction, 2003 Third Edition, and any additions thereto. The aforementioned publication can be found at <http://www.ci.omaha.ne.us/publicworks/contractorconsultant2.htm>
- The sanitary sewer system (pipe, manholes, special structures, service lateral, etc.) must be placed, compacted, and backfilled in accordance with City of Omaha Specifications for Public Works Construction.
- The INSPECTOR is required to be on site at all times during construction of the sanitary sewer. The CONTRACTOR shall give the INSPECTOR at least 48 hours notice prior to beginning work at the start of construction or after an interval of not working on the sanitary sewer.
- The slope on 6" & 8" sanitary sewer service stubs shall be between 1/4" per foot and 3/8" per foot.
- Solid cast iron covers must be used on all sanitary sewer manholes.
- The INSPECTOR must assure all sanitary lines, manholes and service laterals are cleaned of debris (leaves, stone, dirt, construction material, etc.) prior to the APPLICANT taking ownership.
- Concrete for manholes and pipe shall be L65M using either Type II Portland cement or Type I Portland cement if modified to require that the tricalcium aluminate content shall not exceed eight percent (8%). The cement for manhole grout shall be the same as that for manhole concrete.
- The sanitary sewer pipe may be ABS or PVC. The 6 inch (solid wall) pipe shall be ABS (SDR 23.5) or PVC (SDR 23.5) material. The 8 inch through 15 inch pipe shall be ABS or PVC (composite pipe) or PVC (solid wall, SDR 35.0). The bidder shall indicate the material to be used in the spaces provided in the Proposal.
- Six inch & Eight inch sewer stubs shall be installed from the main sewer to the locations shown on the plans and properly marked in accordance with the specifications. The slope of the 6 inch sewer stubs shall be a minimum of 2 percent, and in no case shall the stub depth at the property line be less than 10 feet unless otherwise approved by the Engineer. All wyes and stubs shall be placed as directed by the Engineer.
- The Contractor shall be required to perform a low pressure air leakage test for all Sanitary Sewer Pipe per Section 701.03 (T) of the City of Omaha Standard Specifications.
- Deflection tests shall be performed on all flexible pipe installations in accordance with Section 701.03 (T) of the City of Omaha Standard Specifications.
- All sewer pipe 8 inch internal diameter and larger installed under this project shall be inspected by T.V. camera by an independent sewer inspection service. The T.V. inspection will be paid for by the Owner. T.V. tape shall be compatible with VHS equipment.
- The contractor shall use caution in placing the backfill around and above the pipe to prevent disturbance of the joints or pipe alignment. No rock or stone larger than six (6) inches shall be placed within three (3) feet of the top of the pipe. A minimum four (4) feet of compacted cover above the top of the pipe shall be provided before the use of wheel mounted mechanical tampers (free drop hammers), hydraulic ram tampers or other heavy tamping equipment will be permitted.

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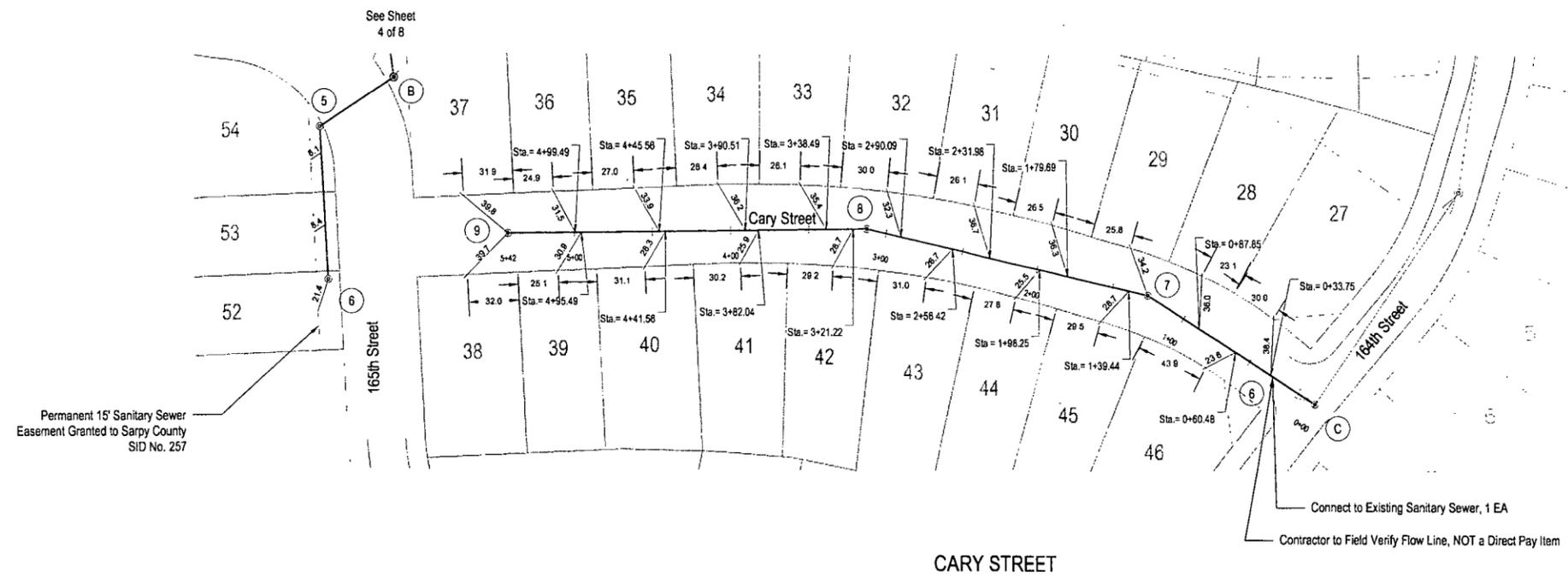
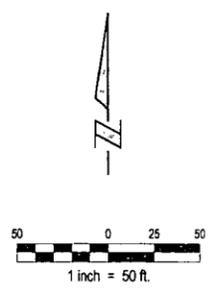
**MERIDIAN PARK REPLAT III
SANITARY, STORM SEWER &
PAVING SECTION V**

NOTES



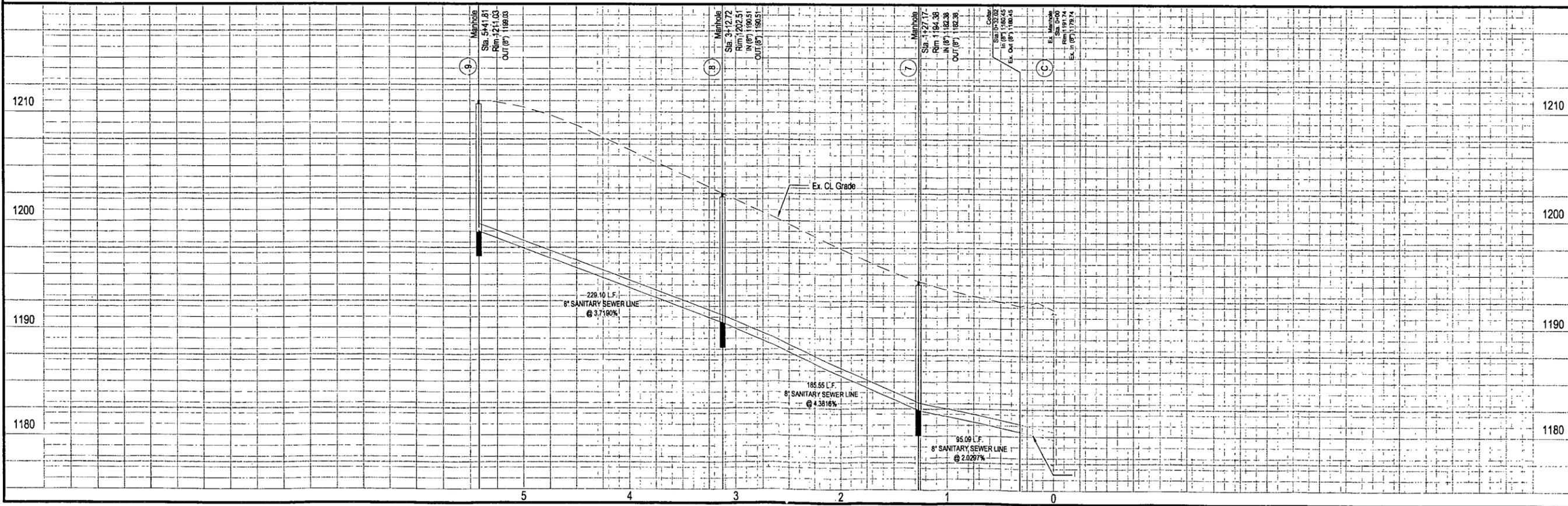
Proj No:	P2004-D4-G-001
Date:	06/20/2011
Designed By:	KCV
Drawn By:	DJW
Checked By:	
Sheet:	2 of 8

CONSTRUCT SANITARY SEWER MANHOLE						
ID	Sanitary Sta.	Dia.	Details	Northing	Easting	V.F.
6	0+32.08	Null Structure	RIM = 1161.18 INV IN = 1180.45 (8") INV OUT = 1180.45 (8")	511999.03	2694903.78	
7	1+27.17	Cylindrical Structure Slab Top Circular Frame	RIM = 1194.38 INV IN = 1182.38 (8") INV OUT = 1182.38 (8")	512050.69	2694823.95	
8	3+12.72	Cylindrical Structure Slab Top Circular Frame	RIM = 1202.51 INV IN = 1190.51 (8") INV OUT = 1190.51 (8")	512082.03	2694643.06	
9	5+41.81	Cylindrical Structure Slab Top Circular Frame	RIM = 1211.03 INV OUT = 1199.03 (8")	512089.07	2694413.99	



Permanent 15' Sanitary Sewer Easement Granted to Sarpy County SID No. 257

Scale: Horiz. 1"=50'
Vert. 1"=5'



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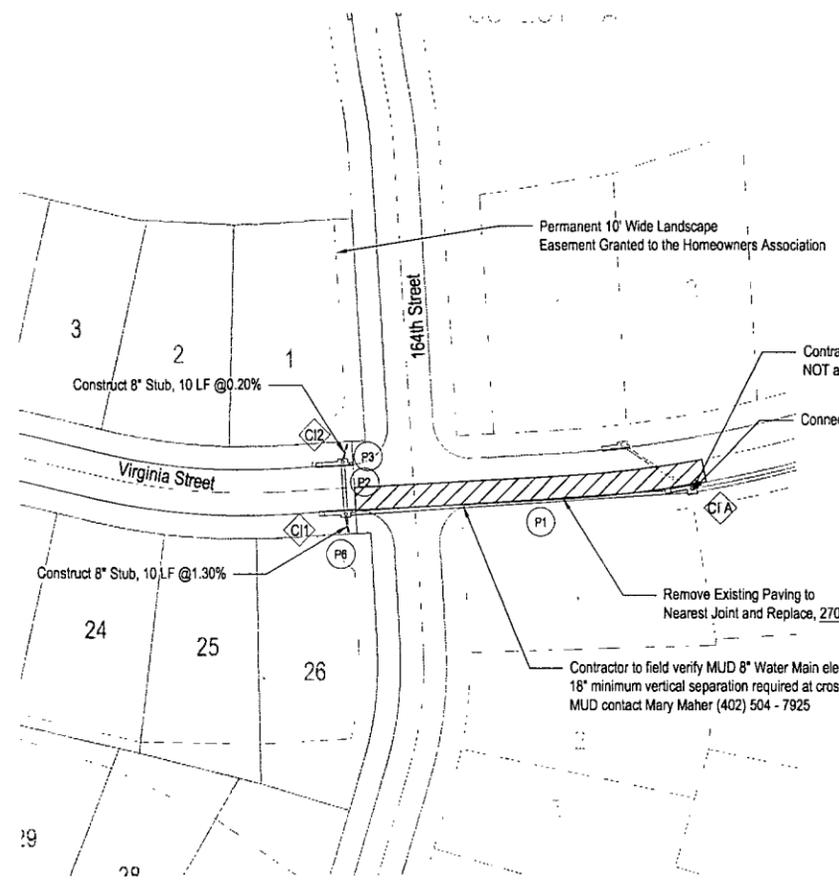
Meridian Park Replat III
Sanitary, Storm Sewer & Paving Section XXX
S&L.D. NO. ##
SARPY COUNTY, NEBRASKA

SANITARY SEWER
PLAN & PROFILE
CARY STREET



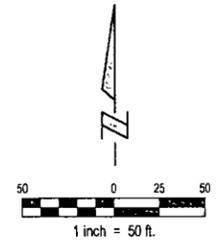
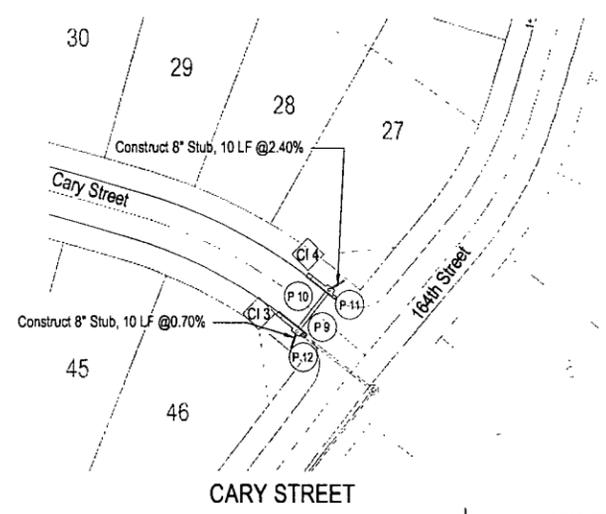
Revisions	Date	Description
(N)	06/20/2011	KGV
		DJM

Proj No: P2004.045.001
 Date: 06/20/2011
 Designed By: KGV
 Drawn By: DJM
 Checked By:
 Sheet 5 of 8



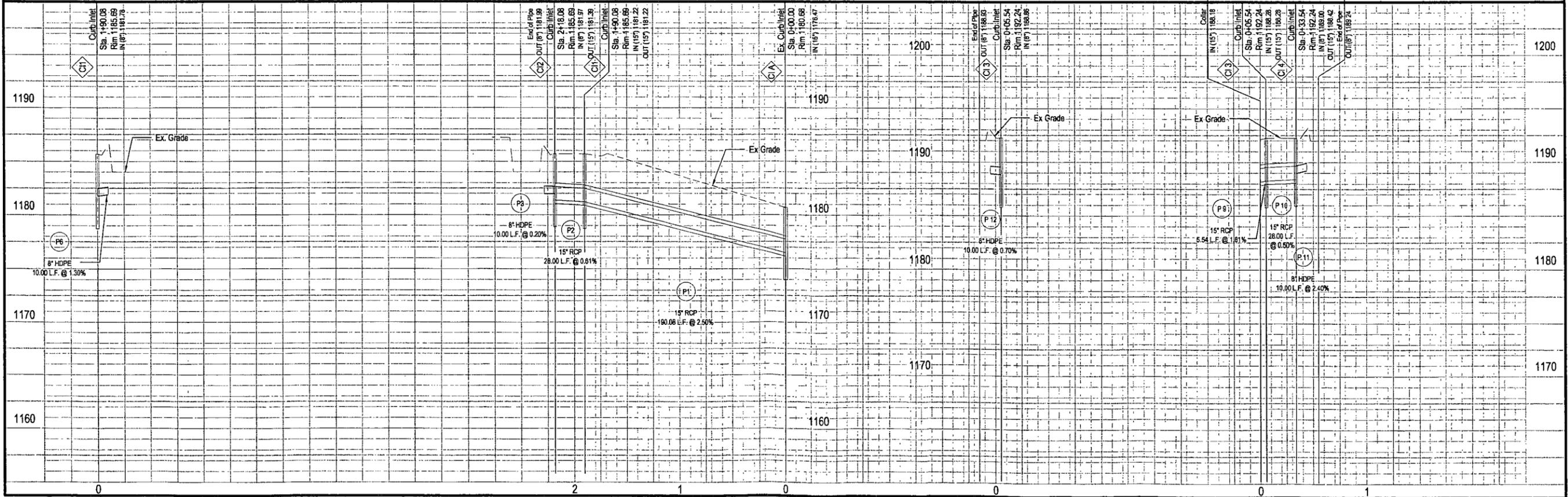
CONSTRUCT REINFORCED CONCRETE PIPE							
ID	START STRUCTURE	END STRUCTURE	Dia.	Class	Length	Slope	Remarks
P 9	CI 3		15"		5.54	1.81%	
P 10	CI 4	CI 3	15"		28.00	0.50%	
P 11		CI 4	8"		10.00	2.40%	
P 12		CI 3	8"		10.00	0.70%	
P 1	CI 1	CI A	15"		190.06	2.50%	
P 2	CI 2	CI 1	15"		28.00	0.61%	
P 3		CI 2	8"		10.00	0.20%	
P 6		CI 1	8"		10.00	1.30%	

CONSTRUCT CURB INLET							
ID	Storm Sta.	Paving Sta.	Type	Details	Northing	Easting	Remarks
CI 3	0+05.54		Rectangular Junction Structure NF	RIM = 1192.24 INV IN = 1188.28 (15") INV IN = 1188.86 (8") INV OUT = 1188.28 (15")	511994.95	2694933.51	
CI 4	0+33.54		Rectangular Junction Structure NF	RIM = 1192.24 INV IN = 1189.00 (8") INV OUT = 1188.42 (15")	512016.79	2694911.03	
CI 1	1+90.08		Rectangular Junction Structure NF	RIM = 1185.69 INV IN = 1181.22 (15") INV IN = 1181.78 (8") INV OUT = 1181.22 (15")	512311.70	2695006.71	
CI 2	2+18.08		Rectangular Junction Structure NF	RIM = 1185.69 INV IN = 1181.97 (8") INV OUT = 1181.39 (15")	512339.66	2695005.18	



VIRGINIA STREET

CARY STREET



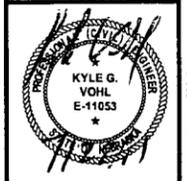
E&A CONSULTING GROUP, INC.
ENGINEERING • PLANNING • FIELD SERVICES

339 NORTH 117TH STREET, OMAHA, NE 68154
PHONE: (402) 865-1700 FAX: (402) 865-3599
www.eaeg.com

Meridian Park Replat III
SANITARY, STORM SEWER & PAVING SECTION V

S.A. I.D. NO. 257
SARPY COUNTY, NEBRASKA

STORM SEWER PLAN & PROFILE VIRGINIA STREET & CARY STREET



Revisions	Date	Description
(No)		

Proj No: P2004-045-001	Date: 10/04/2010	Designed By: RLF	Drawn By: RLF	Checked By:
Sheet 6 of 8				Kyle V

CENTER-LINE CURVE TABLE

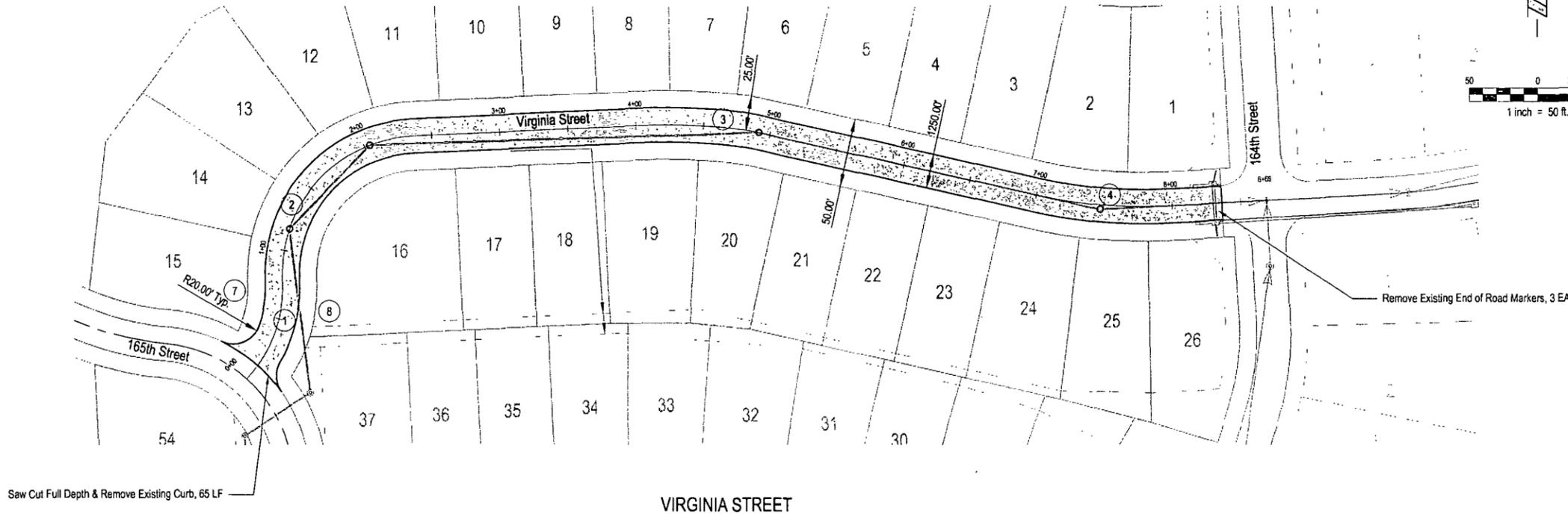
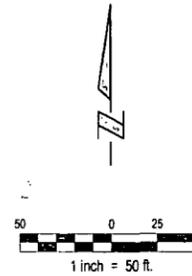
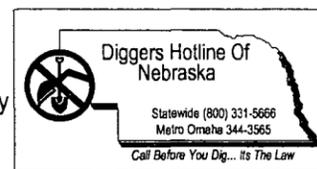
CURVE	RADIUS	LENGTH	TANGENT	DELTA
1	100.00'	78.39'	41.34'	44°54'56"
2	100.00'	157.08'	100.00'	90°00'00"
3	338.90'	90.48'	45.51'	15°17'52"
4	350.00'	96.43'	48.52'	15°47'07"

ROW CURVE TABLE

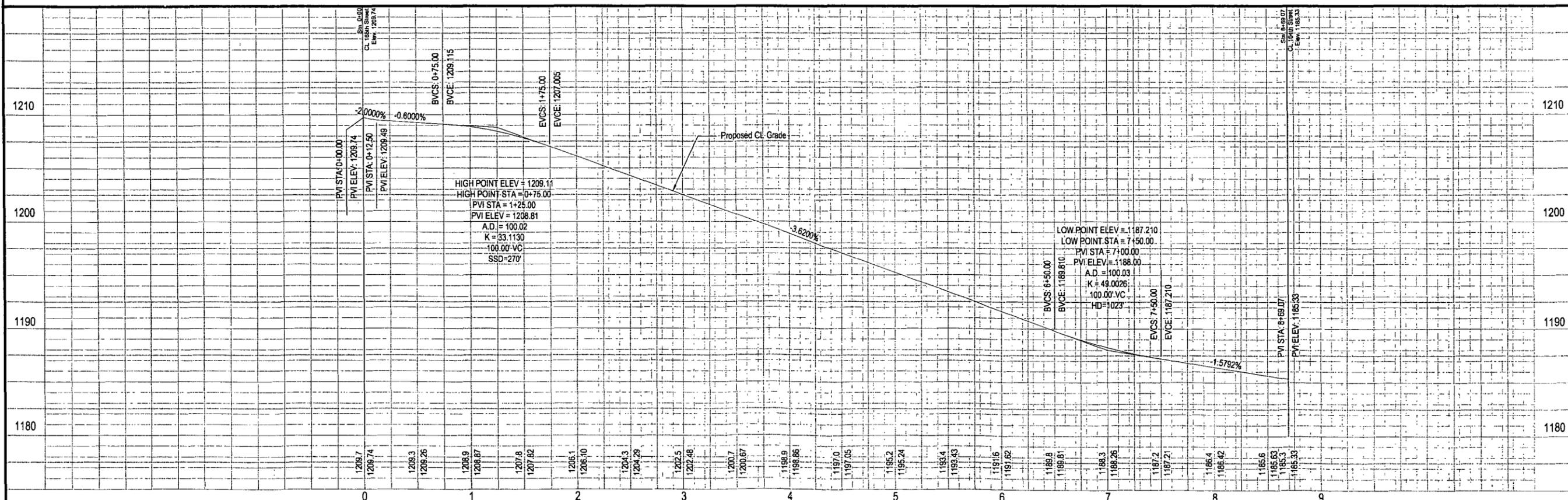
CURVE	RADIUS	LENGTH	TANGENT	DELTA
7	75.00'	36.99'	18.88'	28°15'41"
8	125.00'	75.28'	38.82'	34°30'29"

ADJUST MANHOLE TO GRADE 5 EACH

Note: All manholes require Cretex standard external chimney seals for water tight connection between rim and chimney. External chimney seals and installment shall be considered subsidiary to "Adjust Manhole to Grade"



Scale: Horiz. 1"=50'
Vert. 1"=5'



E&A CONSULTING GROUP, INC.
ENGINEERING • PLANNING • FIELD SERVICES

330 NORTH 17TH STREET, OMAHA, NE 68154
PHONE: (402) 895-4700 FAX: (402) 895-3568
www.eag.com

Meridian Park Replat III
SANITARY, STORM SEWER & PAVING PLAN SECTION V
S & L.D. NO. 287
SARPY COUNTY, NEBRASKA

PAVING PLAN & PROFILE VIRGINIA STREET

KYLE G. VOHL
E-11053

Revisions	Date	Description
(1)		

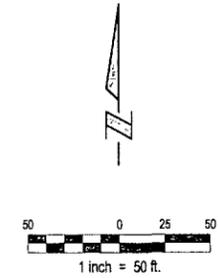
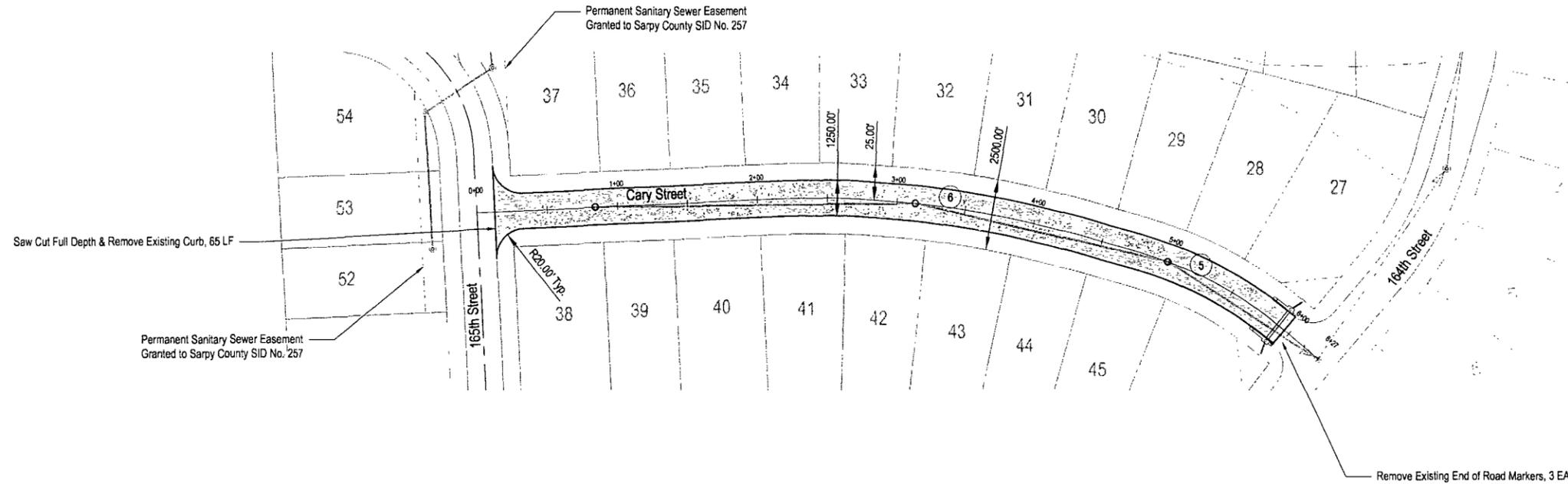
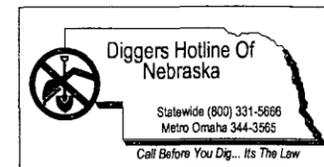
Proj No: P2004.045.001
Date: 10/04/2010
Designed By: RLF
Drawn By: RLF
Checked By:
Sheet: 7 of 8

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CENTER-LINE CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
5	272.05'	117.48'	59.67'	24°44'30"
6	688.26'	221.72'	111.83'	18°27'26"

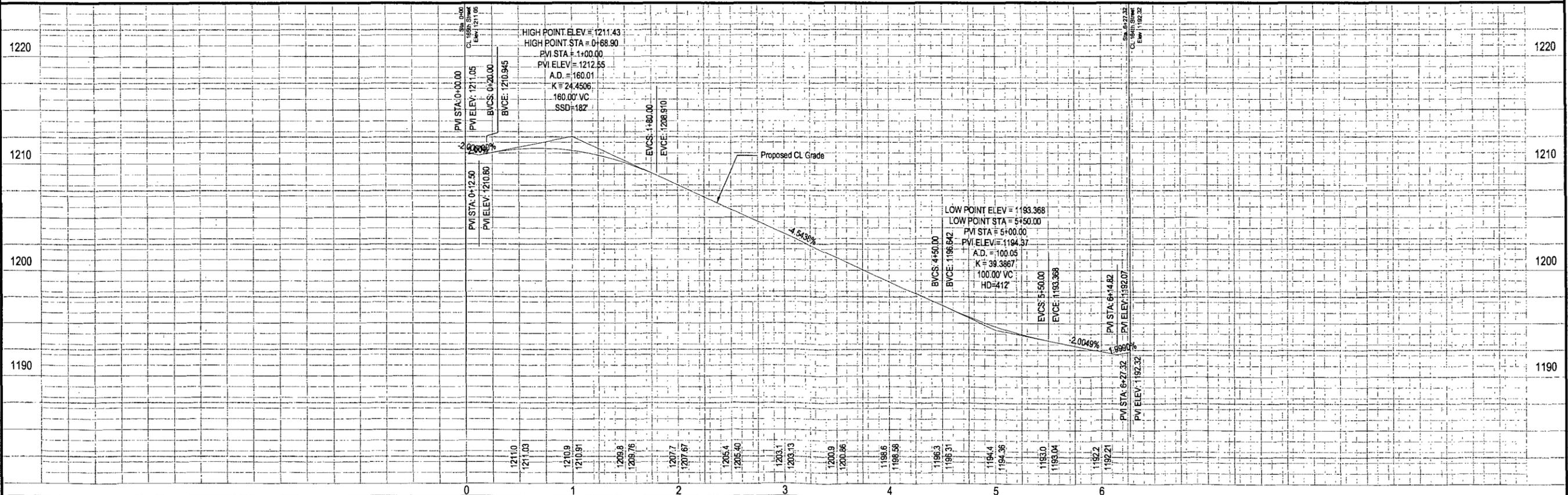
ADJUST MANHOLE TO GRADE 5 EACH

Note: All manholes require Cretex standard external chimney seals for water tight connection between rim and chimney. External chimney seals and installment shall be considered subsidiary to "Adjust Manhole to Grade"



CARY STREET

Scale: Horiz. 1"=50'
Vert. 1"=5'



E&A CONSULTING GROUP, INC.
ENGINEERING • PLANNING • FIELD SERVICES



MERIDIAN PARK REPLAT III
SANITARY, STORM SEWER &
PAVING PLAN SECTION V

PAVING
PLAN & PROFILE
CARY STREET



Revisions	Date	Description
(N)		

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