

1315 South Main Street Normal, IL



DEVELOPMENT PLAN

BENCH MARK: TOP SOUTHEAST CORNER OF APPLE AND MADISON, 250' WEST OF SOUTHWEST CORNER OF SITE
ELEVATION: 773.65 CITY OF NORMAL DATUM

MINIMUM WIDTH OF TRENCH AT TOP OF PIPE, ALL CLASSES TO BE 4/3 INTERNAL DIAMETER PLUS 6" UNLESS SHOWN IN US.

BACKFILL TO BE MADE IN ACCORDANCE WITH THE SPECIFICATIONS

PROJECT NOTES

WATER MAIN

- CONNECT TO EXISTING 6" WATER MAIN. VERIFY LOCATION AND SIZE IN FIELD WATER CAP PROVIDED BY THE CITY OF NORMAL.
- PROPOSED 1.5 L.F. OF 1" DIA. 40' COVER WATER SERVICE.
- PROPOSED 10' DIA. 40' COVER WATER SERVICE.
- PROPOSED 1.5 L.F. OF 1" DIA. 40' COVER WATER SERVICE.

SANITARY SEWER

- PROPOSED 4" DIA. SANITARY MANHOLE. MIN SHALL MEET EXIST. FIVEFOOT DIA. EXIST INV. 731.04 FROM INV. 723.63.
- PROPOSED 1.5 L.F. OF 6" C.I.P. SANITARY SEWER AT 5.4%.
- PROPOSED 40' DIA. SANITARY MANHOLE. INV. 746.45 FROM INV. 740.45.
- PROPOSED 5 L.F. OF 6" C.I.P. AT MIN. 1.0%.
- PROPOSED 2.5 L.F. OF 6" C.I.P. AT MIN. 1.0%.
- PROPOSED 2.5 L.F. OF 6" C.I.P. AT MIN. 1.0%.

STORM SEWER

- PROPOSED 4" DIA. STORM MANHOLE. MIN SHALL MEET EXIST. GRADE INV. 742.11.
- PROPOSED 216 L.F. OF 6" C.S.P. STORM SEWER AT 0.3%.
- PROPOSED 24" CATCHBASIN 4/4' FRAME AND GRATE. RISE 744.10 INV. 742.51.

LOCATION MAP

SECTION 33, TOWNSHIP 24 NORTH, RANGE 2 EAST

PROJECT SPECIFICATIONS

- THE PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED ACCORDING TO THE ORDINANCES AND REQUIREMENTS OF THE "STREET STANDARD SPECIFICATIONS" FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, CURRENT EDITION AND THE LOCAL ORDINANCES AND SPECIFICATIONS.
- THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER AND THE MUNICIPALITY, 48 HOURS PRIOR TO START OF CONSTRUCTION TO ALLOW FOR APPROPRIATE CONSTRUCTION INSPECTION.
- THE MUNICIPALITY SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE AND REJECT THE CONSTRUCTION OF THE IMPROVEMENTS IDENTIFIED BY THIS PROJECT.
- THE CONTRACTORS SHALL NOTIFY THE OWNER, THE DESIGNER AND THE MUNICIPALITY, THEIR AGENTS, CITY, FOR ALL LIABILITY INCURRED IN THE CONSTRUCTION, INSTALLATION AND TESTING OF THIS WORK ON THIS PROJECT.
- ALL SANITARY SEWERS SHALL BE VCP CONCRETE TO ASTM C-700 WITH C-445 JOISTS.
- ALL FRAMES AND GRATES SHALL CONFORM TO ASTM A-48. IN PAVED AREAS, ALL GRATES SHALL BE NEARBY 8-200. IN PARKWAYS, ALL GRATES SHALL BE NEARBY 8-200. COVER "B" LID. ALL UNPAVED AREAS SHALL BE NEARBY 8-1916C. MANHOLE AND VALVE VAULTS IN PAVED AREAS SHALL HAVE HEAVY CAST IRON COVERS WITH SILENT PIPE FITTINGS.
- ALL ADJUSTMENTS SHALL BE MADE WITH PRE-CAST CONCRETE BLOCKS. THE MAXIMUM ADJUSTMENT WITH SILENT GRATE COVERS IS 3/8".
- MINIMUM BEDDING: 4" INCHES BELOW PIPE TO SPRING LINE. BEDDING SHALL BE GRANULAR MATERIAL, FREE OF CLAY, GRADED LAYERWISE, OR GRADE AS APPROVED FOR GRANULAR PIPE (114" TO 34") (GRADED STONE).
- MANHOLE SHALL HAVE 4" INCHES OF STONE BEDDING WITH JOINTS OF PLASTIC MATERIAL.
- "HAND SEAL" JOINTS, OR EQUAL, SHALL BE USED AT ALL POINTS OF CHANGE IN SEWER PIPE MATERIAL.
- JOINTS BETWEEN MANHOLE SECTIONS SHALL BE SETBACK GASKET TYPE.
- CAST IRON FITTINGS SHALL BE ANSA C-110 (LATEST).
- ALL FLOOR BRANDS TO BE CONNECTED TO THE SANITARY SEWER.
- TRANSPIERS AND FORMATION BRANDS SHALL DISCONNECT INTO THE STORM SEWER OR INTO THE GROUND.
- ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE, CONFORMING TO ASTM C-4, AS THE SPECIFIED CLASS. ALL STORM SEWER PIPE JOINTS SHALL CONFORM TO ASTM C-444.
- ALL CAST IRON COVER PIPES SHALL CONFORM TO ANSA C-111. LATEST.
- REGULAR BACKFILL MATERIAL IS PROVIDED IN ALL UTILITY TRENCHES UNLESS PROPOSED PAVED AREAS AND SIDEWALKS. COST OF THIS MATERIAL TO CONSIDERED INCIDENTAL AND SHALL BE INCLUDED IN THE COST OF THE PROPOSED UTILITY.
- RESTORATION OF THE EXISTING ROADWAY RIGHT-OF-WAYS ARE CONSIDERED INCIDENTAL AND SHOULD BE INCLUDED IN THE COST OF THE IMPROVEMENTS.
- THE EXISTING ROADWAY RIGHT-OF-WAYS DAMAGED DURING CONSTRUCTION ARE TO BE RESTORED, AS NECESSARY.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES AS INDICATED ON THE ENGINEERING DRAWINGS. THE QUANTITIES NOTED ARE INDICATED FOR CONSTRUCTION PURPOSES ONLY AND MUST BE VERIFIED. ANY DISCREPANCIES ARE TO BE REPORTED TO THE DESIGN ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING SOIL CONDITIONS PRIOR TO CONSTRUCTION OF CONSTRUCTION. A SOIL REPORT MAY BE OBTAINABLE FROM THE DESIGN ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR REMEDIATING ALL SITE CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND TO OBTAIN THE SITE CERTIFICATE AS INDICATED ON THE ENGINEERING DRAWINGS.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE SIGNAGER WITH AS-BUILT CONDITIONS OF THE REMEDIATED IMPROVEMENTS. ANY CHANGES TO THE DRAWINGS OR ADDITIONAL ITEMS MUST BE REPORTED TO THE CONTRACTOR AS WORK PROGRESS. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE AS-BUILT INFORMATION IN ORDER THAT THE APPROPRIATE SIGNAGER CAN BE PROVIDED.
- STIPULANS SHALL BE REINFORCED WITH 3 - #6 RE-BARS, 10 FEET LONG, WERE SIGNAGER COVERS ANY UTILITY TRENCH.
- THE INFILTRATION OR EXFILTRATION OF THE SANITARY SEWER SHALL NOT EXCEED 100 GALLONS PER DAY PER FOOTER FOR HALF PER DAY.
- PRIOR TO PLACING ANY FILL MATERIAL, PAVEMENT, OR STRUCTURES ALL TRENCH AND/OR OTHER UNDESIRABLE MATERIAL SHALL BE REMOVED. ANY FILL MATERIAL USED SHALL BE AS APPROVED BY A SOILS ENGINEER AND COMPACTED UNDER HIS SUPERVISION.
- IF EXISTING BASE COURSE SHALL BE EXPOSED ON A KEY OR SOFT SURFACE.
- THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS PRIOR TO THE START OF WORK AND, IF THERE ARE ANY DISCREPANCIES TO NOTIFY THE ENGINEER AT ONCE. NO WORK SHALL BE DONE UNTIL THE DISCREPANCY IS RESOLVED.
- CONCRETE SEWER MANHOLES SHALL BE HAVE BEING "SEWER STOP" WALLING OR SIMILAR, WITH A HUB WEATHER BAND, IN ACCORDANCE WITH THE ENGINEER'S RECOMMENDATIONS.
- THE TRENCH SIDE AND FLOOR DRAIN BEHIND THE SIDE ARE TO BE CONNECTED TO THE DRAINAGE TAP.

REVISIONS

DATE	DESCRIPTION

DESIGNED BY MARCHIS ENGINEERING, LTD.
CHECKED BY MARCHIS ENGINEERING, LTD.
DATE JUNE 22, 2018

LOCATION MAP

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MARCHIS ENGINEERING, LTD.
CONSULTING ENGINEERS

16 EAST SCHAMBERG ROAD, SCHAMBERG, ILLINOIS 62451-1011 312-994-5711 312-998-8377

DESIGNER: R. HARRISH
DATE: JUNE 22, 2018

SCALE: 1" = 30' 0"

JOB NUMBER
83-068