

127TH STREET

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EAGLE CREST DRIVE

EXISTING ROW LINE (TYP)

WATER SYSTEM STRUCTURES & PIPES

- FH-1** RELOCATE FIRE HYDRANT & ASSEMBLY
STA. 100+63.2, 177.5' LT
- FH-2** RELOCATE FIRE HYDRANT & ASSEMBLY
STA. 102+50.6, 112.6' LT
- WM-1** 18 LF DIP CL 52 WATERMAIN
• SEE NOTE 1 •
- WM-2** 2 LF DIP CL 52 WATERMAIN
• SEE NOTE 1 •
- WM-3** 17 LF DIP CL 52 WATERMAIN
• SEE NOTE 1 •

SANITARY SYSTEM STRUCTURES

- SN-1** EXISTING MANHOLE
EX. RIM: 745.41
PR. RIM: 747.63

PIPE DRAIN STRUCTURES & PIPES

- YD-1** RELOCATE EXISTING PIPE
DRAIN INLET
RIM: 750.85
148 LF PIPE DRAIN, 4" CORRUGATED PLASTIC
INV. 747.50
- YD-2** PIPE DRAIN HEADWALL
INV. 747.50
- YD-3** 36 LF PIPE DRAIN, 4" CORRUGATED PLASTIC
CONNECT BETWEEN EXISTING
PIPE DRAIN AND SS B-3

SUMMARY OF DETENTION FACILITY CHARACTERISTICS

DETENTION FACILITY	HWL			DETENTION STORAGE VOLUME (ACRE-FEET)		
	TO MEET DETENTION REQUIREMENTS	DESIGN	AS-BUILT	REQUIRED	DESIGN	AS-BUILT
BASIN A	747.95	747.95		0.89	0.93	
BASIN B	746.63	746.63		1.07	1.13	

STORM SEWER STRUCTURES & PIPES

- SS A-1** RELOCATE EXISTING 24" REINFORCED CONCRETE FLARED END SECTION W/ GRATE
STA. 101+20.5, 333.1' LT
INV. 746.24
8 LF 24" RCP CLASS IV STORM SEWER @ 1.00%
- SS A-2** 12" REINFORCED CONCRETE FLARED END SECTION W/ GRATE
STA. 100+69.8, 215.0' LT
INV. 743.95
8 LF 12" RCP CLASS IV STORM SEWER @ 2.00%
- SS A-3** ADJUST EXISTING MANHOLE
EX. RIM: 745.34
PR. RIM: 746.80
PR. 12" RCP INV (E): 742.60
EX. 12" RCP INV (W): 742.60
EX. INV (S): UNKNOWN
- SS A-4** ADJUST EXISTING MANHOLE
CLOSED LID, TYPE I
EX. RIM: 747.50
PR. RIM: 749.50
PR. 12" RCP INV (N): 744.23
PR. 12" RCP INV (S): 744.23
EX. INV (E): 742.06
EX. INV (W): 742.06
- SS A-5** RECONSTRUCT EXISTING MANHOLE
EX. RIM: 745.34
PR. RIM: 749.17
CLOSED LID, TYPE 1 - LOCATE FRAME & LID BEHIND CURB
PR. 12" RCP INV (NE): 745.50
EX. 12" RCP INV (E): 741.60
EX. 12" RCP INV (N): 741.58
REMOVE EXISTING 4" DIA. RESTRICTOR PLATE AND GROUT 5" DIA PVC PIPE, 2 LF, INTO RCP OUTLET PIPE (SEE DETAIL)
- SS A-6** INLET, TYPE A, 2' DIA.
TYPE II FRAME & OPEN GRATE
STA. 100+49.7, 108.5' LT
RIM: 748.95
12" RCP INV (S): 744.95
48 LF 12" RCP CLASS IV STORM SEWER @ 1.50%
- SS A-7** INLET, TYPE A, 2' DIA.
EAST JORDAN 8" FRAME (#00211111) WITH ADA GRATE (#00211033) (OR EQUIVALENT)
STA. 100+97.1, 130.8' LT
RIM: 748.95
12" RCP INV: 744.95
41 LF 12" RCP CL IV STORM SEWER @ 1.76%
- SS A-8** CATCH BASIN, TYPE C, 2' DIA.
TYPE II FRAME AND OPEN GRATE
STA. 100+69.4, 26.0' LT
RIM: 748.95
12" RCP INV: 745.95
26 LF 12" RCP CLASS IV STORM SEWER @ 1.73%
- SS A-9** MANHOLE, TYPE A, 5' DIA.
NEENAH R-3437 FRAME & OPEN GRATE (OR EQUIVALENT)
RIM: 747.95
24" RCP INV: 743.70
49 LF 24" RCP CL IV STORM SEWER @ 1.00%
- SS A-10** MANHOLE, TYPE A, 5' DIA.
TYPE I FRAME & CLOSED LID
STA. 100+25.8, 281.5' LT
RIM: 749.54
36" RCP INV (E,W): 741.15
24" RCP INV (SW): 743.21
- SS B-1** 15" REINFORCED CONCRETE FLARED END SECTION W/ GRATE
STA. 105+75.8, 23.7' RT
INV. 750.83
40 LF 15" RCP CLASS IV STORM SEWER @ 1.70%
- SS B-2** MANHOLE, TYPE A, 4' DIA.
TYPE I FRAME & CLOSED LID
STA. 105+36.3, 33.6' RT
RIM: 753.58
18" RCP INV (N): 746.66
15" RCP INV (S): 750.15
102 LF 18" RCP CLASS IV STORM SEWER @ 1.00%
- SS B-3** MANHOLE, TYPE A, 4' DIA.
TYPE II FRAME AND OPEN GRATE
STA. 104+28.3, 14.0' LT
RIM: 749.85
18" RCP INV (N): 745.30
18" RCP INV (S): 745.51
INV (E): CONNECT YARD DRAIN
62 LF 12" RCP CLASS IV STORM SEWER @ 1.00%
- SS B-4** CATCH BASIN, TYPE A, 4' DIA.
TYPE II FRAME AND OPEN GRATE
STA. 103+57.4, 58.1' LT
RIM: 748.75
24" RCP INV (NW): 744.58
18" RCP INV (SW): 744.68
226 LF 24" RCP CLASS IV STORM SEWER @ 0.65%
- SS B-5** MANHOLE, TYPE A, 4' DIA.
TYPE II FRAME AND OPEN GRATE
STA. 101+58.6, 53.0' RT
RIM: 748.61
24" RCP INV (NW): 743.01
24" RCP INV (SE): 743.11
20 LF 24" RCP CLASS IV STORM SEWER @ 0.90%
- SS B-6** 24" REINFORCED CONCRETE FLARED END SECTION W/ GRATE
STA. 101+50.7, 70.4' LT
INV. 742.83
10 LF 12" RCP CLASS IV STORM SEWER @ 1.00%
- SS B-7** RELOCATE EXISTING FLARED END SECTION
STA. 100+82.6, 146.8' RT
INV. 742.63
- SS B-8** MANHOLE, TYPE A, 5' DIA.
NEENAH R-3437 FRAME & OPEN GRATE (OR EQUIVALENT)
STA. 100+52.9, 146.8' RT
RIM: 746.63
12" RCP INV (N): 742.43
12" RCP INV (S): 742.53
GROUT 5" DIA. PVC PIPE, 2 LF, INTO SOUTH (INFLOW) 12" PIPE (SEE DETAIL)
- SS B-9** CATCH BASIN, TYPE A, 4' DIA.
TYPE I FRAME AND OPEN GRATE
STA. 100+29.0, 144.1' RT
RIM: 744.93
CONNECT EX. 12" INV (NE): 742.10
PR. 12" RCP INV (S): 742.10
- SS C-1** CATCH BASIN, TYPE A, 4' DIA.
TYPE II FRAME AND OPEN GRATE
STA. 100+50.6, 18.5' RT
RIM: 747.63
12" RCP INV (NW, SW): 743.07
- SS C-2** 12" REINFORCED CONCRETE FLARED END SECTION W/ GRATE
STA. 100+73.0, 40.6' RT
INV. 742.88

UTILITY CROSSINGS

- ① UTILITY CROSSING #1
12" RCP STORM SEWER CROSSING
EXISTING WATER MAIN
• SEE NOTE 2 •
- ② UTILITY CROSSING #2
12" RCP STORM SEWER CROSSING
EXISTING WATER MAIN
• SEE NOTE 2 •

BASIN B

BASIN A

TENNIS COURTS

SKATE PARK

NOTES:

1. SIZE OF EXISTING WATERMAIN IS UNKNOWN. CONTRACTOR TO FIELD VERIFY SIZE OF EXISTING PRIOR TO ORDERING MATERIALS.
2. CONTRACTOR SHALL PRE-EXCAVATE EXISTING UTILITIES WHERE PROPOSED WATER OR SEWER IS CROSSING. VERIFY SIZE AND ELEVATION OF EXISTING. WATERMAIN SHALL BE ADJUSTED AS NECESSARY TO PROVIDE A MINIMUM OF 18" VERTICAL SEPARATION. PROVIDE 16" PVC C-900 CASING WHERE REQUIRED. NOTIFY ENGINEER OF ANY CONFLICTS.

1"=30'
SCALE
FEET

ESI ESI CONSULTANTS, LTD
1079 N. MILL STREET, SUITE 100
NAPERVILLE, IL 60563
(630) 420-1700
WWW.ESI-IL.COM
ILLINOIS DEPARTMENT OF PROFESSIONAL REGULATION REGISTRATION #184-003695

DESIGNED - BW
DRAWN - BR
CHECKED - BW
DATE -
REVISED - 1/25/13 PER CCHD
REVISED - 2/4/13 PER IDOT
REVISED - 2/22/13 PER IDOT
REVISED - 3/1/13 PER IDOT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE & UTILITY PLAN

SCALE: 1"=30' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. SECTION COUNTY TOTAL SHEETS SHEET NO.
RTE. 08-00043-00-BR COOK 24 12
1591
ILLINOIS FED. AID PROJECT 63804