

# EXHIBIT A

# CITY OF NAPERVILLE NAPERVILLE, ILLINOIS

## GREEN ACRES WATER MAIN IMPROVEMENTS

BID # 17-190

SEPTEMBER, 2017

**GREEN ACRES**  
NAPERVILLE TWP. -  
TOWNSHIP: 38 NORTH  
RANGE: 9E  
OF 3RD PRINCIPLE MERIDIAN

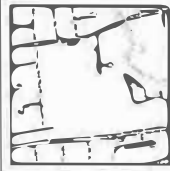
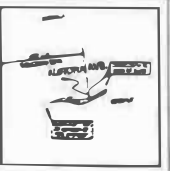
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GENERAL NOTES/QUANTITY SHEET	2
SITE PLAN	3
PLAN AND PROFILE	4-8
STANDARD DETAILS	7-8

**GPS MONUMENTS**

GPS# 219  
HORIZONTAL DATUM  
NAD83 (2007) ILLINOIS STATE PLANE TRANSVERSE MERCATOR,  
EAST ZONE

VERTICAL DATUM  
NAVD 1988 ADJUSTMENT

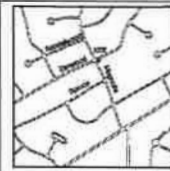

ELEVATION = 707.72  
N: 1,857,859.63  
E: 1,029,787.96

GPS# 006  
HORIZONTAL DATUM  
NAD83 (2007) ILLINOIS STATE PLANE TRANSVERSE MERCATOR,  
EAST ZONE

VERTICAL DATUM  
NAVD 1988 ADJUSTMENT

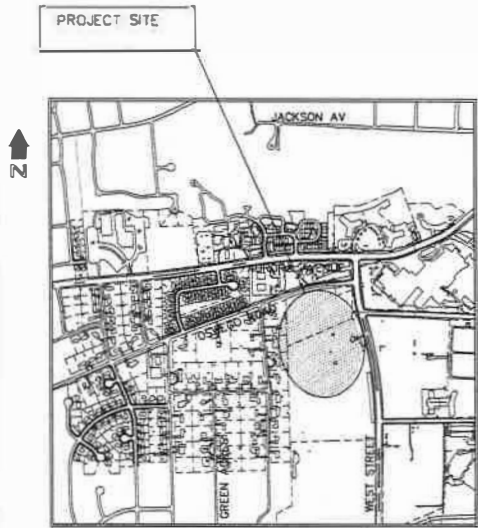
ELEVATION = 694.27  
N: 1,853,532.91  
E: 1,034,522.94

LOCAL BENCH MARK  
SANITARY MANHOLE IN FRONT OF LEFT STATION



LOCATION MAP



SITE PLAN



STATE OF ILLINOIS    ) SS )  
COUNTY OF DUPAGE   ) )

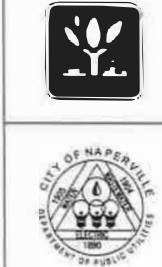
I, ADAM JASINSKI, AN ILLINOIS LICENSED PROFESSIONAL ENGINEER, HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED UNDER MY PERSONAL DIRECTION FOR THE EXCLUSIVE USE OF THE CITY OF NAPERVILLE, DEPARTMENT OF PUBLIC UTILITIES. REPRODUCTION OR USE BY THIRD PARTIES IS STRICTLY PROHIBITED WITHOUT THE WRITTEN PERMISSION OF THE UNDERSIGNED.

GIVEN UNDER MY HAND AND SEAL THIS 6TH DAY OF SEPTEMBER, 2017.

*Adam Jasinski*  
ILLINOIS LICENSED PROFESSIONAL ENGINEER NO. 062-065185  
LICENSE VALID THROUGH NOVEMBER 30, 2017



**CALL JULIE  
BEFORE EXCAVATING  
1-800-892-0123 OR 811**



CITY OF NAPERVILLE DEPARTMENT OF PUBLIC UTILITIES  
ENVIRONMENTAL ENGINEERING AND CONSTRUCTION MANAGEMENT DIVISION

GREEN ACRES WATER MAIN IMPROVEMENTS  
COVER SHEET

REVISIONS		
NUMBER	BY	DATE
DESIGN BY:	A. JASINSKI	
DRAWN BY:	G. VILLALDROS	
CHECKED BY:	A. JASINSKI	
APPROVED BY:	A. RIES	
DATE:	09-05-2017	
JOB No:	17-190	
SHEET 1 OF 8 SHEETS		



REVISIONS	
NUMBER	DATE

DESIGN BY:	AJANSKI
DRAWN BY:	C.V.LALOROS
CHECKED BY:	AJANSKI
APPROVED BY:	A. RES
DATE:	
JOB No.:	BD 15-190

- GENERAL NOTES:**
- ALL WORK TO BE CONSTRUCTED IN ACCORDANCE WITH "STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION IN ILLINOIS" LATEST EDITION.
  - NEW WATER MAIN VALVES, INCLUDING PRESSURE AND WALK-ADJACENT TO AN EXISTING WATER MAIN, AND EXISTING WATER MAIN VALVES SHALL ONLY BE OPERATED BY THE CITY OF NAPERVILLE DEPARTMENT OF PUBLIC UTILITIES CEEDAL DIVISION PERSONNEL, WITH 48-HOUR NOTICE (WEDNESDAY-FRIDAY). CONTACT NAPERVILLE CONTRACT GROUP AT 630-668-6686 FOR SCHEDULING.
  - CONTRACTOR SHALL SUBMIT A SEQUENCE OF CONSTRUCTION AND A DETAILED PROGRESS SCHEDULE TO THE CITY PRIOR TO COMMENCING WORK.
  - ADEQUATE BARREDS, CONSTRUCTION SIGNS, LIGHTS AND GUARDS SHALL BE PLACED AND MAINTAINED BY THE CONTRACTOR AT HIS EXPENSE DURING THE PROGRESS OF THE CONSTRUCTION WORK AND UNTIL IT IS SAFE FOR PUBLIC TO USE THE ROADS. ALL MATERIAL PILES, TRAFFIC BARRIERS SHALL BE ENCLOSED BY FENCES OR LIGHTS WHEN VISIBILITY IS POOR. BARRIAGES SHALL CONFORM TO DOT STANDARD 702001, TYPE I.

- WATER MAINS SHALL BE SUBJECT TO A HYDROSTATIC LEAKAGE TEST IN ACCORDANCE WITH NAPERVILLE STANDARD SPECIFICATIONS. TEST SHALL BE PERFORMED WITHIN THE SPECIFIED TEST PERIOD OF 4 HOURS AND NOT MORE THAN 18 HOURS BEFORE THE TEST. THE TEST GAUGE SHALL BE APPROVED BY THE CITY AND SHALL BE GUYCERIN OR OIL FILLED WITH A RANGE OF NOT MORE THAN 200 PSI AND INCREMENTS NOT GREATER THAN 5 PSI. 4" MINIMUM DIAL SIZE. TESTING PERIOD TO SHOW NO LEAKS SHALL BE A MINIMUM OF 10 HOURS. MAIN DID NOT HAVE TOO MUCH TRAPPED AIR IN THE TESTED SECTION.
- FIRE HYDRANT SHOULD BE BAGGED "NOT IN SERVICE" UNTIL ALL RESTRICTIONS AND CONNECTIONS HAVE BEEN COMPLETED AND NEW WATER MAIN SECTION IS SERVICE.

- INFORMATION ON THE PLANS REGARDING UNDERGROUND UTILITIES IS REPRESENTED AS BEING ENTIRELY CORRECT. HOWEVER, THE CONTRACTOR SHALL NOTIFY OPERATING AGENCY IN ADVANCE OF CROSSING OVER OR UNDER ANY UTILITIES SHOWN ON THE PLANS. THE CONTRACTOR SHALL NOTIFY OPERATING AGENCY AND ENGINEER IN ADVANCE OF ANY UNDERGROUND UTILITIES SHOWN ON THE PLANS. ANY UTILITIES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- ALL DISTURBED AREAS SHALL BE CLEANED UP AND RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE ORIGINAL CONDITION. CLEAN AND SHALL BE SWEEP DAILY DURING SWEEPING OPERATIONS. PAVEMENT SHALL BE SPOVED WITH WATER TO MINIMIZE THE SPREAD OF DUST.
- THE CONTRACTOR SHALL PROTECT ALL PROPERTY LINES AND SURVEY MONUMENTS AND SHALL RESTORE ANY WHICH ARE DISTURBED BY HIS OPERATIONS AT NO ADDITIONAL COST TO THE CONTRACTOR.
- ALL EXISTING TRAFFIC SIGNS, FENCES, GUARDRAILS, STREET SIGNS, ETC. WHICH INTERFERE WITH CONSTRUCTION OPERATIONS AND NOT NOTED FOR REMOVAL OR DISPOSAL SHALL BE MAINTAINED BY THE CONTRACTOR OR TEMPORARILY RELOCATED. THIS IS CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION IS TO BE PAID FOR THE CONTRACTOR'S EXPENSE.

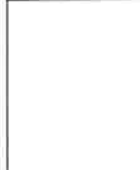
- STAINLESS STEEL NUTS, BOLTS, BOLT-SHOTS, AND WASHERS, TYPE 304 OR BETTER, WILL BE REQUIRED FOR ALL WATER MAIN INSTALLATIONS. THIS INCLUDES NUTS, BOLTS, BOLT-SHOTS, WASHERS, FITTINGS, FITTINGS, NUTS AND OTHER APPURTENANCES BURIED OR IN VALVE BOXES. FITTINGS, NUTS, BOLTS, BOLT-SHOTS, WASHERS, AND OTHER APPURTENANCES SHALL BE FACTORY APPLIED TO NUTS OR BOLTS - ANY DAMAGE TO THIS COATING SHALL BE REPAIRED WITH FIELD APPLIED APPROVED ANTI-SEIZE COMPOUND THAT IS AMATEUR-RESISTANT AND NON-HARMFUL TO THE ENVIRONMENT. REFER TO SPECIFICATIONS FOR APPROVED SEALS.
- WATER MAINS SHALL BE SUBJECT TO A HYDROSTATIC LEAKAGE TEST IN ACCORDANCE WITH NAPERVILLE STANDARD SPECIFICATIONS. TEST SHALL BE PERFORMED WITHIN THE SPECIFIED TEST PERIOD OF 4 HOURS AND NOT MORE THAN 18 HOURS BEFORE THE TEST. THE TEST GAUGE SHALL BE APPROVED BY THE CITY AND SHALL BE GUYCERIN OR OIL FILLED WITH A RANGE OF NOT MORE THAN 200 PSI AND INCREMENTS NOT GREATER THAN 5 PSI. 4" MINIMUM DIAL SIZE. TESTING PERIOD TO SHOW NO LEAKS SHALL BE A MINIMUM OF 10 HOURS. MAIN DID NOT HAVE TOO MUCH TRAPPED AIR IN THE TESTED SECTION.
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**WATER MAIN NOTES**

- DACTILE IRON WATER MAIN TO BE CLASS 52. ALL DUCTILE IRON PIPE IS TO BE ENCASED IN POLYETHYLENE FILM POLYETHYLENE ENCASEMENT (PE) WITH JOINTS AND FITTINGS TO BE PERMITTED, NO SOLDERED OR FLARED TYPE JOINTS ARE ALLOWED.
- WATER SERVICE LINE SMALLER THAN 7" SHALL BE TYPE K COPPER. IF JOINTS ARE REQUIRED DUE TO LENGTH OF SERVICE, THEY ONLY SHALL BE PERMITTED, NO SOLDERED OR FLARED TYPE JOINTS ARE ALLOWED.
- ALL BRASS COMPONENTS SHALL BE CERTIFIED TO BE LEAD FREE IN COMPLIANCE WITH NSF 51 AND NSF 372 AND IDENTIFIED WITH APPLICABLE MARKINGS.
- ALL 12" WATER MAIN PIPE BENES SHALL BE RESTRAINED WITH BOTH JOINT RESTRAINTS AND POURED IN PLACE CONCRETE THURST BLOCKS AS SHOWN ON STANDARD DETAIL 801.11. JOINT RESTRAINT SHALL BE TYPE 1 OR 2. RESTRAINT SHALL BE TYPE 1 FOR 48-DEGREE BENS AND 30' L FOR 64-DEGREE BENS. COST OF THIS RESTRAINT IS INCIDENTAL TO WATER MAIN BEING INSTALLED.
- ALL SET WAGER CLANS MUST BE REPAIRED TO STREET MAIN VALVES, FITTINGS, HYDRANTS AND PRESSURE VALVES. THIS INCLUDES JOINT WEAR ACTION TYPE MEGALUS 1100 SERIES AS MANUFACTURED BY EBBARON, INC. OR UNIFLANGE BLOCBLOCK 1400 SERIES AS

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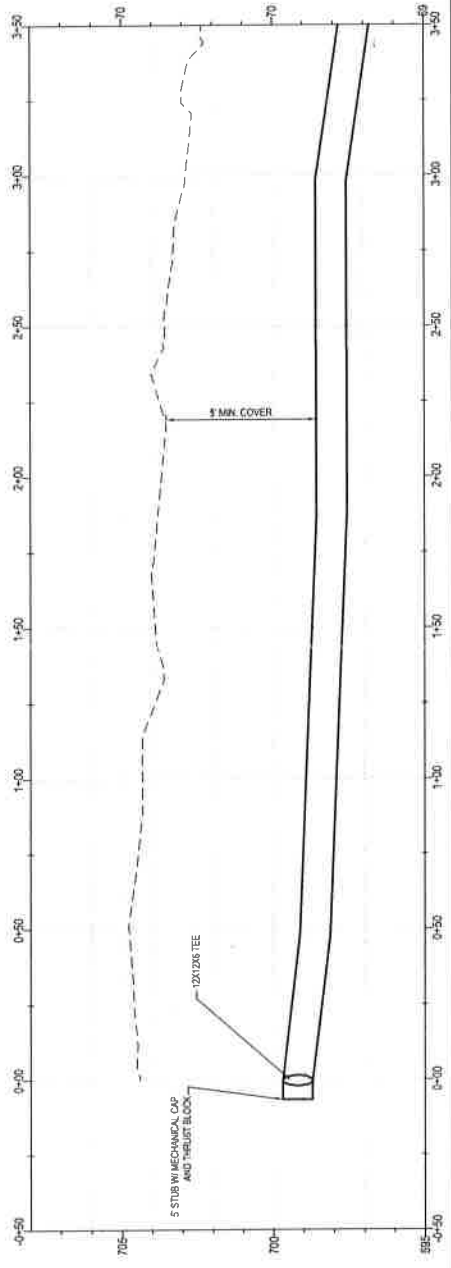
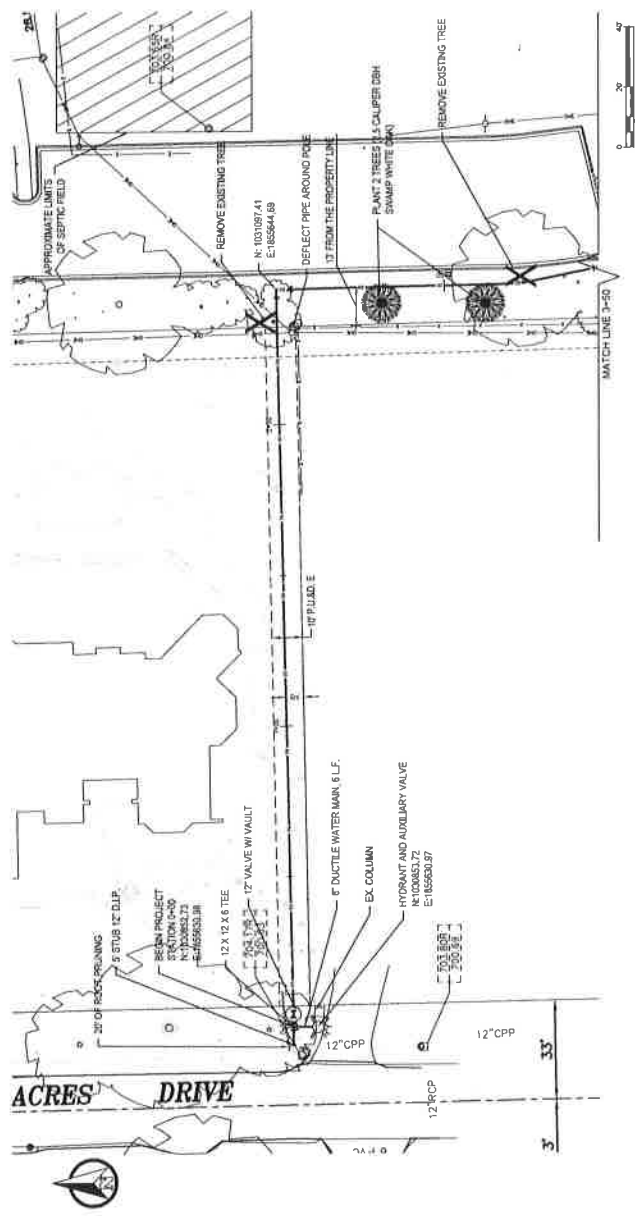




CITY OF NAPERVILLE DEPARTMENT OF PUBLIC UTILITIES  
 CIVIL ENVIRONMENTAL ENGINEERING AND CONSTRUCTION MANAGEMENT DIVISION  
 GREEN ACRES WATER MAIN IMPROVEMENTS  
 PLAN AND PROFILE

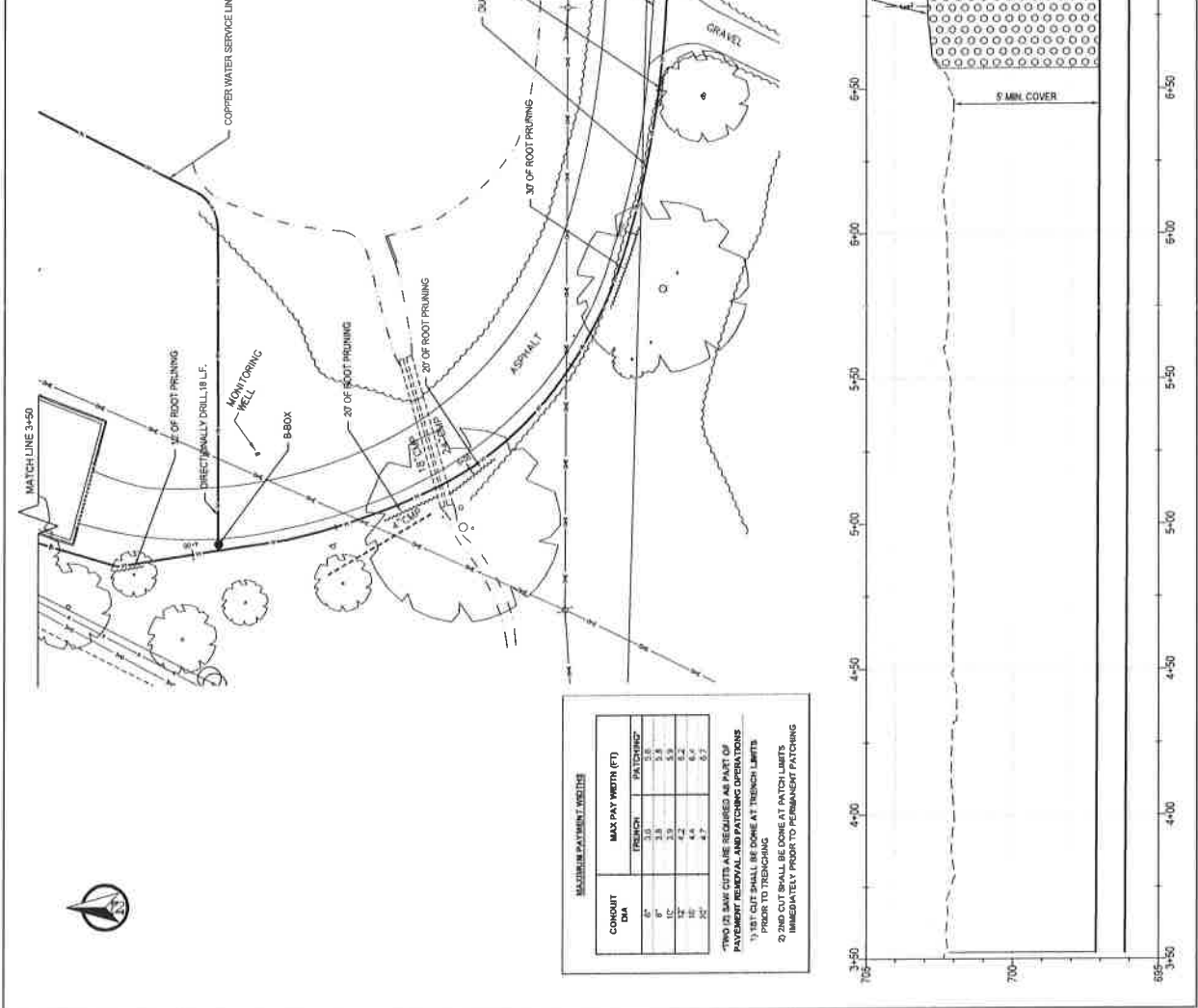
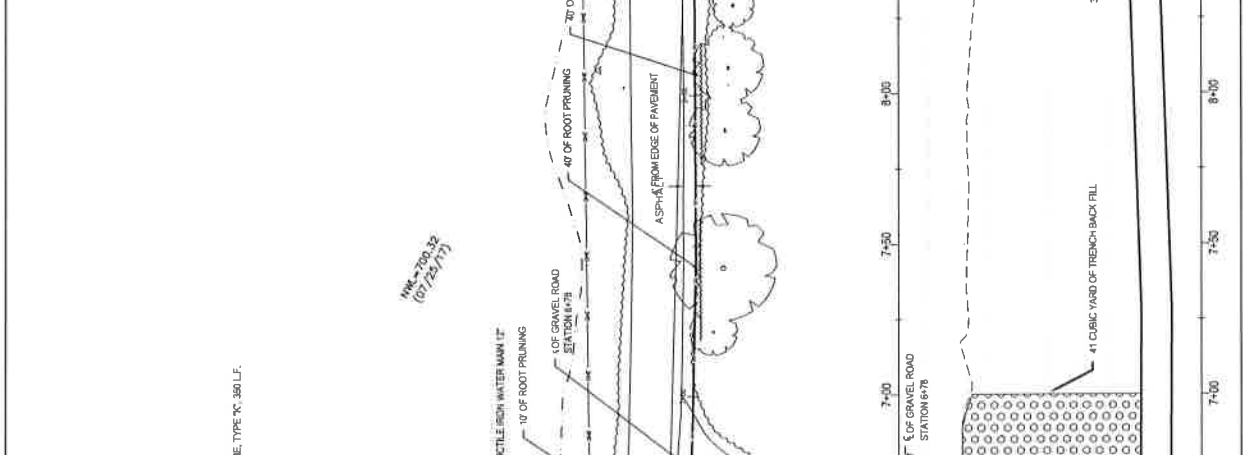
REVISIONS	
NUMBER	DATE

DESIGN BY: A. JANSISO  
 DRAWN BY: D. VILALCROE  
 CHECKED BY: A. JANSISO  
 APPROVED BY: A. REIS  
 DATE: 05-05-2017  
 JOB No: BD 17-190  
 SHEET # OF 8 SHEETS



REVISIONS NUMBER	BY	DATE

DESIGN BY: A. JANSKI  
 DRAWN BY: G. VILLALOBOS  
 CHECKED BY: A. JANSKI  
 DATE: 09-09-2017  
 JOB NO: 17-190  
 SHEET 5 OF 8 SHEETS



**MAXIMUM TRENCH WIDTHS**

CONDUIT DIA	MAX PAY WIDTH (FT)	
	TRENCH	SHALLOWS
6"	3.0	5.8
8"	3.3	5.9
10"	3.6	6.1
12"	4.2	6.2
14"	4.4	6.5
16"	4.7	6.7

\*TWO (2) SAW CUTS ARE REQUIRED AS PART OF PAYMENT REMOVAL AND PATCHING OPERATIONS  
 1) 1ST CUT SHALL BE DONE AT TRENCH LIMITS PRIOR TO TRENCHING  
 2) 2ND CUT SHALL BE DONE AT PATCH LIMITS IMMEDIATELY PRIOR TO FEMORANT PATCHING





CITY OF NAPERVILLE DEPARTMENT OF PUBLIC UTILITIES  
 CIVIL ENVIRONMENTAL ENGINEERING AND CONSTRUCTION MANAGEMENT DIVISION

GREEN ACRES WATER MAIN IMPROVEMENTS  
 PLAN AND PROFILE

REVISIONS

NUMBER	BY	DATE

DESIGN BY: A. JAKSONG  
 DRAWN BY: D. CALABROSS  
 CHECKED BY: A. JAKSONG  
 APPROVED BY: A. RIES  
 DATE: 09-05-2017  
 JOB No: BD 17-190

SHEET 6 OF 8 SHEETS

CONDUIT DIA	TRENCH	PATCHING	MAX PAY WIDTH (FT)
6"	5.0	3.8	3.8
8"	5.5	4.3	4.3
12"	5.9	5.8	5.8
18"	6.4	6.3	6.3
24"	6.9	6.8	6.8
36"	7.4	7.3	7.3

\*TRENCH CUTS ARE REQUIRED AS PART OF PAYMENT REMOVAL AND PATCHING OPERATIONS PRIOR TO TRENCHING  
 1) 1ST CUT SHALL BE DONE AT TRENCH LIMITS  
 2) 2ND CUT SHALL BE DONE AT PATCH LIMITS IMMEDIATELY PRIOR TO PERMANENT PATCHING

