

CERTIFICATION





10/27/2020 11:04:19 AM J:\2017\170818\CAD\Dwgs\G\1 COVER SHEET.dwg

420 N. FRONT STREET, SUITE 100 | MCHENRY, IL 60050 Phone: 815.385.1778 | Toll Free: 800.728.7805 | Fax: 815.385.1781 | HRGreen.com

7TH AVENUE CREEK FLOOD REDUCTION & WATER QUALITY IMPROVEMENTS - PHASE 1 (CITY OF ST CHARLES AND EPA SECTION 319 FUNDED PROJECT) **CITY OF ST. CHARLES KANE COUNTY, ILLINOIS** 2021

LOCATION MAP





CLIENT: CHARLES JAY. P.E., CFM ORKS MANAGER, ENGINEERING CHARLES PHONE: 630-377-4405 DIRECT: 630-377-4418

HR GREEN INC., DALE MARTING, P.E., CFM LEAD ENGINEER / PROJECT CONTACT 420 N. FRONT STREET MCHENRY, ILLINOIS 60050 (815) 759-8325 (815) 385–1778 AJAY JAIN, P.E., CFM PRACTICE LEADER - WATER RESOURCE PHONE: (815) 759-8331

PROJECT LENGTHS: CREEK IMPROVEMENTS = 2,147 FT (0.41 MILES) MULTI-USE PATH = 1,511 FT (0.29 MILES)ROADWAY IMPROVEMENTS = 1,573 FT (0.30 MILES) SANITARY SEWER IMPROVEMENTS = 1,826 FT (0.35 MILES)



ENGINEER / SURVEYOR:

BERNIE BAUER, P.L.S. PROJECT LAND SURVEYOR 2363 SEQUOIA DRIVE, SUITE 101 AURORA, ILLINOIS 60506 (630) 553-7560 (630) 708–5033

SEE SHEET 2 FOR INDEX OF SHEETS • SEE SHEET 2 FOR BENCHMARK INFORMATION

SITE BENCHMARKS:	<u>UTII</u>	<u>ITY CONTACT INFORMA</u>	ATION
ELEVATIONS ARE BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVDS88), PER DATASHEET FOR STATION STC 11 OF THE CITY OF ST. CHARLES VERTICAL CONTROL NETWORK	J.U.L.I.E.	DESIGN TICKET #A1861870	ILLINOIS JULIE, 800-892-0123
SOURCE BENCHMARK – ST. CHARLES STATION STC 11 2 1/2 INCH DIAMETER ALUMINUM DISK STAMPED – STC 11 2008, LOCATED UNDER AN ALUMINUM ACCESS LID. BENCHMARK IS LOCATED ON THE EAST SIDE OF 4 TH AVENUE, APPROXIMATELY 75 FEET NORTH	CITY CONTACT/ CITY ENGINEER	CITY OF ST. CHARLES KEN JAY, P.E., CFM PUBLIC WORKS MANAGER, ENGINE 2 E. MAIN STREET, ST. CHARLES, IL 60174	630–377–4486 EERING
OF MAIN STREET, 77.5 FEET NORTH-NORTHEAST OF THE CENTER OF A WATER MANHOLE, 54.8 FEET SOUTH OF THE SOUTH FACE OF A UTILITY POLE, 48.3 FEET EAST OF THE EAST FACE OF BAKER MEMORIAL CHURCH, AND 7.4 FEET EAST OF THE BACK OF CURB ALONG THE EAST SIDE OF 4 TH AVENUE. ELEVATION: 730.21 (NAVD88)	SANITARY/ WATER	PUBLIC WORKS DEPARTMENT PUBLIC WORKS FIELD OFFICE 200 DEVEREAUX WAY ST. CHARLES, IL 60174	630-377-4405
SITE BENCHMARKS	ELECTRICAL POWER	CITY OF ST. CHARLES (ALONG JOHN DEUTSCH DR.) PAUL HOPKINS	630-377-4405
BENCHMARK #3 — "ARROW" FLANGE BOLT ON THE FIRE HYDRANT LOCATED AT THE SOUTHWESTERLY QUADRANT OF MAIN STREET (IL RT. 64) AND 9 TH AVENUE. ELEVATION: 723.29 (NAVD88)	NATURAL GAS	NICOR GAS YVONNE HARRIS NEW BUSINESS COORDINATOR 90 N. FINLEY ROAD GLEN ELLYN, IL 60137	630-317-1684
BENCHMARK #15 – CHISELED "X" ON THE NORTHEASTERY FLANGE BOLT ON THE FIRE HYDRANT LOCATED AT THE NORTHEASTERLY QUADRANT OF ILLINOIS AVENUE AND 9 TH AVENUE. ELEVATION: 724.98 (NAVD88)	TELEPHONE	ATT/DISTRIBUTION JANET AHERN 1000 COMMERCE DRIVE, FLOOR OAK BROOK, IL 60523 JA1763@ATT.COM	630-573-5450 630-573-6414 1
BENCHMARK #16 – "TAG" FLANGE BOLT FIRE HYDRANT LOCATED AT THE NORTHWESTERLY QUADRANT OF ILLINOIS AVENUE AND 8 TH AVENUE. ELEVATION: 720.27 (NAVD88)	CABLE/ INTERNET	COMCAST MARTHA GIERAS 680 INDUSTRIAL DRIVE ELMHURST, IL 60126	224-229-5862
BENCHMARK #27 – SOUTHWEST BOLT ON THE TOP OF THE RETAINING WALL AT THE NORTHWESTERLY QUADRANT OF THE INTERSECTION OF 7 TH AVENUE AND WASHINGTON AVENUE. FLEVATION: 7.34-28 (NAVD88)		WIDE OPEN WEST PAUL FLINKOW 1674 FRONTENAC RD NAPERVILLE, IL 60563	630-536-3100 630-536-3139
BENCHMARK #28 - NORTHWEST BOLT ON THE TOP OF THE RETAINING		METRO FIBERNET, LLC KORIE NELLIS 3701 COMMUNICATIONS WAY EVANSVILLE, INDIANA 47715	812–213–1378
WALL AT THE SOUTHEASTERLY QUADRANT OF THE INTERSECTION OF 7" AVENUE AND SOUTH AVENUE. ELEVATION: 723.66 (NAVD88)	EPA	I.E.P.A. – PERMIT SECTION, DIVISION OF WATER POLLUTION P.O. BOX 19276 SPRINGFIELD, IL 62794–9276	217-782-0610
BENCHMARK #30 – CHISELED "X" ON THE EASTERLY FLANGE BOLT ON THE FIRE HYDRANT LOCATED AT THE NORTHWESTERLY QUADRANT OF 7 TH AVENUE AND 9 TH AVENUE. ELEVATION: 723.63 (NAVD88)	GEOTECHNICAL AND TESTING	MIDLAND STANDARD ENGINEERING MICHAEL PRIGGE, P.E. 558 PLATE DRIVE EAST DUNDEE, IL 60118	847-844-1895
Dial 811 or 1-800-892-0123 JULIE DESIGN TICKET NUMBER: # A1301656 & X0420996			
WITH THE FOLLOWING: COUNTY KANE			
CITY-TOWNSHIP <u>ST. CHARLES, ST. CHARLES TWP</u> SEC. & 1/4 SEC. NO.# <u>S.26,27,34&35/T.40N./R.8E</u>			
Know what's below.(2) Working Days before you dig (Excluding Sat., Sun. & Holidays)Call before you dig.			
CITY OF ST. CHARLES IS TO BE NOTIFIED 3 DAYS PRIOR TO CONSTRUCTION START.			
CITY OF ST. CHARLES SHALL BE INCLUDED IN ALL PRE-CONSTRUCTION MEETINGS.			

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FOR BIDDING ONLY

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	EXISTING	<u>PROPOSEI</u>
SANITARY MANHOLE	\bigcirc	
SANITARY CLEAN OUT	\bigcirc	ě
STORM MANHOLE	\bigcirc	\odot
STORM CATCH BASIN/INLE	T 🕞	
INLET		
FLARED END SECTION	\triangleleft	4
VALVE VAULT	\bigotimes	$\mathbf{\Theta}$
WATER SERVICE VALVE	(\cdot)	
AUXILIARY VALVE	\sim	Ŭ
LIGHT POLE	$\mathbf{\tilde{Q}}$	
REGULATORY SIGN		Ŧ
UTILITY POLE		
UTILITY BOX	GAS ELEC CATV	
MAILBOX	\geq	
WELL		
SANITARY SEWER	2	;
SANITART SERVICE		
CULVERT		
WATER MAIN	<i>W</i>	w
CASING PIPE		
TRENCH BACKFILL		W
ELECTRIC LINE	—————— E ————	
OVERHEAD ELECTRIC LINE	OE	
	UE	
GAS LINE	G	
CARLE TV LINE	CATV	
FIBER OPTIC LINE	FO	
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
IREE LINE		
TREE		
CONTOURS		
SPOT ELEVATION	⊢ <u>E7121</u>	PROP
FENCE	×	x
DRAINAGE 10 100 YEAD	W	
OVERFLOW DIRECTION AR	ROW	
REMOVAL (LINEAR ITEMS)		·/ + + + + + + + ·
REMOVAL (ITEMS)		X

CS CP CLSD CLID СТ COMB С CE CONC

CONST CONTD CONT COR CORR CMP CNTY СН CSE XSECT m ³

mm ³ CU YD CULV C&G D DC DET DIA DIST DOM DBL DSEL DSFL DR DI DRV

ABV A/C AC ADJ AS AGG AH 38 APT ASPH AUX AGS AVE AX ΒK B-B BKPL В BARR BGN BM BIND BIT BTM BLVD BRK BBOX BLDG CIP СВ C-C CL CL-E CL-F CTS CERT CHSLD

### FOR BIDDING ONLY

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ABOVE	DCT	DUCT	L SUM	LUMP SUM	SH	SHEET
ACCESS CONTROL	EA	EACH	MACH	MACHINE	SHLD	SHOULDER
ACRE	EB	EASTBOUND	MB	MAIL BOX	SW	SIDEWALK OR SOUTHWEST
ADJUST	EOP	EDGE OF PAVEMENT	МН	MANHOLE	SIG	SIGNAL
AERIAL SURVEYS	E-CL	EDGE TO CENTERLINE	MATL	MATERIAL	SOD	SODDING
AGGREGATE	E-E	EDGE TO EDGE	MED	MEDIAN	SM	SOLID MEDIAN
AHEAD	EL	ELEVATION	m	METER	SB	SOUTHBOUND
AND	ENTR	ENTRANCE	METH	METHOD	SE	SOUTHEAST
APARTMENT	EQU	EQUIVILENT	М	MID-ORDINATE	SPL	SPECIAL
ASPHALT	EXC	EXCAVATION	mm	MILLIMETER	SD	SPECIAL DITCH
	FX	FXISTING	mm DIA	MILLIMETER DIAMETER	SQ FT	SQUARE FEFT
AUXILIARY GAS VALVE (SERVICE)	FXPWAY	FXPRESSWAY	MIX	MIXTURF	m ²	SQUARE METER
	F	EXTERNAL DISTANCE OF HORIZONTAL CURVE	MBH		mm ²	
	F	OFFSET DISTANCE TO VERTICAL CURVE	MOD		SO YD	SOLIARE YARD
BACK	L F_F		MET	MOTOR FUEL TAX	STR	
BACK TO BACK					STD	
					SDI	STATE DOND ISSUE
					50	STATE DOUTE
	FAP	FEDERAL AID PRIMART		NAIL & WASHER	SR	
BARRICADE	FAS	FEDERAL AID SECONDARY	NUAA	NATIONAL OCEANIC ATMOSPHERIC	SIA	
BEGIN	FAUS	FEDERAL AID URBAN SECONDARY		ADMINISTRATION	SPBGR	STEEL PLATE BEAM GUARDRAIL
BENCHMARK	FP 	FENCE POST	NC	NORMAL CROWN	SS	STORM SEWER
BINDER	FE	FIELD ENTRANCE	NB	NORTHBOUND	SIY	STORY
BITUMINOUS	FH	FIRE HYDRANT	NE	NORTHEAST	ST	STREET
BOTTOM	FL	FLOW LINE	NW	NORTHWEST	STR	STRUCTURE
BOULEVARD	FB	FOOT BRIDGE	OLID	OPEN LID	e	SUPERELEVATION RATE
BRICK	FDN	FOUNDATION	PAT	PATTERN	S.E. RUN.	SUPERELEVATION RUNOFF LENGTH
BUFFALO BOX	FR	FRAME	PVD	PAVED	SURF	SURFACE
BUILDING	F&G	FRAME & GRATE	PVMT	PAVEMENT	SMK	SURVEY MARKER
CAST IRON PIPE	FRWAY	FREEWAY	РМ	PAVEMENT MARKING	Т	TANGENT DISTANCE
CATCH BASIN	GAL	GALLON	PED	PEDESTAL	T.R.	TANGENT RUNOUT DISTANCE
CENTER TO CENTER	GALV	GALVANIZED	PNT	POINT	TEL	TELEPHONE
CENTERLINE OR CLEARANCE	G	GARAGE	PC	POINT OF CURVATURE	ТВ	TELEPHONE BOX
CENTERLINE TO EDGE	GM	GAS METER	PI	POINT OF INTERSECTION OF HORIZONTAL	TP	TELEPHONE POLE
CENTERLINE TO FACE	GV	GAS VALVE		CURVE	TEMP	TEMPORARY
CENTERS	GRAN	GRANULAR	PRC	POINT OF REVERSE CURVE	ТВМ	TEMPORARY BENCH MARK
CERTIFIED	GR	GRATE	PT	POINT OF TANGENCY	TD	TILE DRAIN
CHISELED	GRVL	GRAVEL	POT	POINT ON TANGENT	TBE	TO BE EXTENDED
CITY STREET	GND	GROUND	POLYETH	POLYETHYLENE	TBR	TO BE REMOVED
	GUT	GUTTER	PCC	PORTIAND CEMENT CONCRETE	TBS	TO BE SAVED
	GP		PP		TWP	TOWNSHIP
	CW		PRM		TR	TOWNSHIP ROAD
	Gw				TS	
					TSCP	TRAFFIC SIGNAL
					TSCD	TRAFFIC SIGNAL CONTROL BOX
COMMERCIAL BUILDING			PGL	PROFILE GRADELINE		TRAFFIC STSTEMS CENTER
COMMERCIAL ENTRANCE	HDW		PRUJ		IRVS	
	HDUIY	HEAVY DUTY	P.C.			
CONSTRUCT	ha	HECIARE	PL	PROPERTY LINE	IBF	IRENCH BACKFILL
CONTINUED	HMA	HOI MIX ASPHALI	PR	PROPOSED	IRN	IURN
CONTINUOUS	HWY	HIGHWAY	R	RADIUS	TY	ТҮРЕ
CORNER	HORIZ	HORIZONTAL	RR	RAILROAD	T—A	TYPE A
CORRUGATED	HSE	HOUSE	RRS	RAILROAD SPIKE	TYP	TYPICAL
CORRUGATED METAL PIPE	IL	ILLINOIS	RPS	REFERENCE POINT STAKE	UNDGND	UNDERGROUND
COUNTY	IMP	IMPROVEMENT	REF	REFLECTIVE	USGS	U.S. GEOLOGICAL SURVEY
COUNTY HIGHWAY	IN DIA	INCH DIAMETER	RCCP	REINFORCED CONCRETE CULVERT PIPE	USEL	UPSTREAM ELEVATION
COURSE	INCL	INCLUDE / INCLUDED	REINF	REINFORCEMENT	USFL	UPSTREAM FLOWLINE
CROSS SECTION	INL	INLET	REL	RELOCATE	UTIL	UTILITY
CUBIC METER	INST	INSTALLATION	REM	REMOVAL / REMOVE	VBOX	VALVE BOX
CUBIC MILLIMETER	IDS	INTERSECTION DESIGN STUDY	RC	REMOVE CROWN	VV	VALVE VAULT
CUBIC YARD	INV	INVERT	REP	REPLACEMENT	VLT	VAULT
CULVERT	IP	IRON PIPE	REST	RESTAURANT	VEH	VEHICLE
CURB & GUTTER	IR	IRON ROD	RESURF	RESURFACING	VP	VENT PIPE
DEGREE OF CURVE	JT	JOINT	RET	RETAINING	VERT	VERTICAL
DEPRESSED CURVE	kg	KILOGRAM	RT	RIGHT	VC	VERTICAL CURVE
DETECTOR	km	KILOMETER	ROW	RIGHT-OF-WAY	VPC	VERTICAL POINT OF CURVATURE
DIAMETER	LS	LANDSCAPING	RD	ROAD	VPI	VERTICAL POINT OF INTERSECTION
DISTRICT	LN	LANE	RDWY	ROADWAY	VPT	VERTICAL POINT OF TANGENCY
DOMESTIC	LT	LEFT	RTE	ROUTE	WM	WATER METER
	   P		SAN	SANITARY	WV	WATER VALVE
DOWNSTREAM ELEVATION			SANS	SANITARY SEWER	 ΨΜΔΙΝΙ	WATER MAIN
DOWNSTREAM FLOWLINE		LINFAL FEFT OR LINFAR FEFT	SEC	SECTION	WR	WESTBOLIND
				SECTION		
DINAINAGE INLET OR DROF INLET			SUAL		wo	
	LING		J		VV U	WITTOOT



ILLINOIS DESIGN FIRM # 184.001322 420 N. FRONT STREET, SUITE 100 McHENRY, ILLINOIS 60050

FLOOD REDUCTION & WATER QUALITY IMPROVEMENTS – PHASE 1 CITY OF ST. CHARLES, IL ST. CHARLES, IL

LEGEND AND ABBREVIATIONS SHEET

SHEETS

SHEET NO.

### GENERAL NOTES:

- 1. ALL ITEMS OF THIS PROJECT SHALL BE GOVERNED BY SPECIFICATIONS INCLUDED IN THE DOCUMENTS LISTED BELOW:
- A. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" PREPARED BY THE DEPARTMENT OF TRANSPORTATION OF THE STATE OF ILLINOIS AND ADOPTED BY SAID DEPARTMENT (LATEST EDITION).
- "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION (LATEST EDITION).
- "BUREAU OF DESIGN & ENVIRONMENT MANUAL" (BDE) BY ILLINOIS DEPARTMENT OF TRANSPORTATION (LATEST EDITION)
- D. "MANUAL ON UNIFÒRM TRAFFIC CÓNTROL DEVICES" FEDERAL HIGHWAY ADMINISTRATION MUTCD
- (LATEST EDITION). E. "ILLINOIS SUPPLEMENT TO THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES"
- (LATEST EDITION)
- F. "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" (LATEST FDITION)
- G. "ILLINOIS URBAN MANUAL" PREPARED BY THE U.S. DEPARTMENT OF AGRICULTURE NRCS AND MAINTAINED BY THE ASSOCIATION OF ILLINOIS SOIL AND WATER CONSERVATION DISTRICTS (LATEST EDITION).
- H. "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" BY IEPA, ILLINOIS URBAN MANUAL - A TECHNICAL MANUAL DESIGNED FOR URBAN ECOSYSTEM PROTECTION AND ENHANCEMENT, (LATEST EDITION).
- "KANE COUNTY STORMWATER MANAGEMENT ORDINANCE" "CITY OF ST. CHARLES STORMWATER MANAGMENT ORDINANCE"
- K. CITY OF ST. CHARLES DESIGN AND INSPECTION POLICY MANUAL.
- 2. COORDINATION WITH UTILITIES
- A. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL HAVE ALL UTILITIES LOCATED BY J.U.L.I.E (811) OR (1-800-892-0123) AND THE CITY OF ST. CHARLES (1–630–377–4406) AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED FOR IN THE STANDARD SPECIFICATIONS.
- B. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORD INFORMATION AND MAY NOT BE ACCURATE. WHERE CONFLICT EXISTS BETWEEN EXISTING UTILITIES AND THE PROPOSED UNDERGROUND PIPING REQUIRING A REVISION TO THE PLANS, SUCH CONSTRUCTION SHALL NOT BE UNDERTAKEN UNTIL SUCH CHANGES ARE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL REPORT ALL SUCH CONFLICTS IMMEDIATELY TO THE ENGINEER.
- C. ALL EXISTING UTILITIES WITHIN THE PROJECT AREA SHALL BE REMOVED AND RELOCATED, IF NECESSARY, FOR CONSTRUCTION BY THE UTILITY COMPANY WHICH HAS JURISDICTION OVER IT. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING WITH THE APPROPRIATE UTILITY COMPANY.
- D. WHERE PROPOSED WATER MAIN CROSSES UNDER EXISTING GAS MAIN THE CONTRACTOR SHALL PROVIDE EXTRA CARE WHEN INSTALLING PROPOSED WATER MAIN TO PREVENT DAMAGE TO EXISTING GAS MAIN.
- 3. CONSTRUCTION OF UNDERGROUND UTILITIES
- A. EXCAVATION: WHERE WORKING CONDITIONS AND RIGHT-OF-WAY PERMIT, PIPE LINE TRENCHES WITH SLOPING SIDES MAY BE USED. THE SLOPES SHALL NOT EXTEND BELOW THE TOP OF THE PIPE, AND TRENCH EXCAVATIONS BELOW THIS POINT SHALL BE MADE WITH VERTICAL SIDES WITH WIDTHS NOT EXCEEDING THOSE SPECIFIED HEREIN FOR THE VARIOUS SIZES OF PIPE. OPEN-CUT TRENCHES SHALL BE SHEETED AND BRACED AS REQUIRED BY THE GOVERNING STATE AND FEDERAL LAWS AND MUNICIPAL ORDINANCES, AND AS MAY BE NECESSARY TO PROTECT LIFE, PROPERTY, OR THE WORK. WHERE FIRM FOUNDATION IS NOT ENCOUNTERED AT THE GRADE ESTABLISHED DUE TO UNSUITABLE SOIL, ALL SUCH UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED WITH APPROVED COMPACTED GRANULAR MATERIAL.
- B. WIDTH OF TRENCH: THE MAXIMUM WIDTH OF TRENCH AT THE TOP OF THE PIPE SHALL BE AS SHOWN IN THE TRENCH DETAILS.
- C. RESTORATION OF DRAINAGE: AS SOON AS POSSIBLE AFTER BACKFILLING THE TRENCH, ALL DITCHING, GRADING AND SHAPING NECESSARY TO RESTORE THE ORIGINAL DRAINAGE IN THE AREA OF WORK SHALL BE PERFORMED. CULVERTS REMOVED DURING THE COURSE OF THE WORK SHALL BE REPLACED AS SOON AS PRACTICABLE.
- D. UTILITIES IN EMBANKMENT SECTION. ALL EMBANKMENT MATERIAL WHICH IS TO BE PLACED WITHIN THE AREA OF INFLUENCE OF PROPOSED UNDERGROUND UTILITIES, AS SHOWN ON THE PLANS, INCLUDING STORM SEWER, WATER MAIN, AND SANITARY SEWER, SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR. THE AREA OF INFLUENCE SHALL BE DETERMINED AS FOLLOWS:
- HORIZONTAL ALIGNMENT: THE HORIZONTAL AREA OF INFLUENCE SHALL BE THAT AREA 5 FOOT FROM BOTH SIDES OF THE PROPOSED TRENCH ALIGNMENT.
- VERTICAL: THE VERTICAL AREA OF INFLUENCE SHALL BE DETERMINED AS THAT AREA b. LOCATED DIRECTLY UNDER THE HORIZONTAL ALIGNMENT AS DEFINED IN (1) FROM THE BOTTOM OF THE PROPOSED SUBGRADE TO THE TOP OF THE REMAINING IN-SITU MATERIAL AFTER TOPSOIL STRIPPING AND UNDERCUTTING AS DIRECTED BY THE ENGINEER OR AS SHOWN ON THE PLANS. THE SUBGRADE SHALL BE FREE OF UNSUITABLE MATERIAL AND SHALL BE COMPACTED TO A
- MINIMUM OF NINETY-FIVE PERCENT (95%) OF MODIFIED PROCTOR DENSITY. TESTING FOR COMPACTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL TOPSOIL AND ANY ORGANIC MATERIALS SHALL BE REMOVED.
- 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 IN LOCATION WITH NEW CONSTRUCTION. THE CONTRACTOR
- SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL PERMITS INCLUDING MUNICIPAL PERMITS FOR ALL PROPOSED IMPROVEMENTS ACCORDING TO THE PLANS DESIGNATED AS
- "7TH AVENUE CREEK FLOOD REDUCTION & WATER QUALITY IMPROVEMENTS PHASE 1. 4. STORM SEWERS SHALL BE LAID STRAIGHT IN BOTH HORIZONTAL AND VERTICAL PLANES BETWEEN
- STRUCTURES UNLESS OTHERWISE APPROVED BY THE CITY OF ST. CHARLES. NO STOCKPILING OF SPOILS WILL BE ALLOWED IN SPECIAL MANAGEMENT AREAS SUCH AS FLOODWAYS, FLOODPLAINS AND WETLANDS.
- 5. WATER MAIN
- A. WHEN REQUESTED BY THE CITY OF ST. CHARLES, THE CONTRACTOR SHALL SALVAGE AND DELIVER TO THE VILLAGE ANY EXISTING VALVES, CASTINGS, OR HYDRANTS FROM THE ADANDONED WATER MAIN. ALL OTHER PIPE AND APPURTENANCES REMOVED FROM THE ABANDONED WATER MAIN SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
- B. TEMPORARY SUPPORT OR RELOCATION OF EXISTING UTILITIES MAY BE REQUIRED AS A RESULT OF CONSTRUCTION OF THIS PROJECT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE REQUIRED WORK WITH THE RESPECTIVE UTILITY COMPANIES IN ORDER TO AVOID UNNECESSARY DELAYS TO CONSTRUCTION. THE CONTRACTOR SHALL WORK CLOSELY WITH THE UTILITIES TO LOCATE. PLAN, AND SUPPORT THESE FACILITIES IN A MANNER WHICH MINIMIZES UTILITY SHUT-OFF AND KEEPS THE PROJECT ON SCHEDULE.
- C. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ACCESS TO INDIVIDUAL PROPERTIES DURING CONSTRUCTION. PROPERTY OWNERS SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF WORK THAT WOULD AFFECT OR ALTER THEIR ACCESS. TEMPORARY ACCESS DRIVES SHALL BE PROVIDED FOR ALL PROPERTIES IF ACCESS IS TO BE DISRUPTED FOR AN EXCESSIVE AMOUNT OF TIME, AS DETERMINED BY OWNER AND ENGINEER. TEMPORARY ACCESS DRIVES SHALL CONSIST OF FULL-DEPTH CLEAN CRUSHED STONE PROPERLY COMPACTED.
- D. OWNER WILL PROVIDE THE CONTRACTOR WATER FOR FLUSHING, DISINFECTION, AND PRESSURE TESTING OPERATIONS FREE OF CHARGE. WATER WILL BE MADE AVAILABLE THROUGH EXISTING WATER MAIN CONNECTIONS OR NEARBY FIRE HYDRANTS. THE CONTRACTOR SHALL PROVIDE BACKFLOW PREVENTION DEVICES FOR FIRE HYDRANT CONNECTIONS. THE CONTRACTOR SHALL TAKE REASONABLE PRECAUTIONS FOR WATER CONSERVATION.
- DRAWN BY: CTK BAR IS ONE INCH ON NO. DATE **REVISION DESCRIPTION** JOB DATE: OCTOBER 28, 2020 RY OFFICIAL DRAWINGS. APPROVED: DVM JOB NUMBER: 170818 IF NOT ONE INCH, CAD DATE: 10/26/2020 1:39:16 PM ADJUST SCALE ACCORDINGLY CAD FILE: J:\2017\170818\CAD\Dwgs\G\4 GENERAL NOTES AND ALIGNMENTS.dwg

- SPECIFICATIONS.
- CONNECTIONS, AND ABANDONMENTS OF THE EXISTING WATER MAIN.
- EXPENSE.

IN THE EVENT OF ANY DOUBT OR QUESTION ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.

- THE PAVEMENT OR IN SPECIAL MANAGEMENT AREAS SUCH AS FLOODPLAINS OR WETLANDS.
- RULES AND REGULATIONS OF O.S.H.A.
- 10. NO DIMENSIONS SHALL BE ASSUMED BY SCALING.
- THE ENGINEER OR CITY.

E. NO EXCAVATIONS WILL BE PERMITTED TO REMAIN OPEN OVER ANY WEEKEND AND NO EXCAVATIONS SHALL BE LEFT OPEN OVERNIGHT IN ANY RESIDENTIAL AREA. THE ENGINEER AND CITY ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS. TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS OR FOR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF HIS WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND

G. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL A PLAN FOR PHASING THE NEW WATER MAIN INTO SERVICE, INCLUDING BUT NOT LIMITED TO: A SUMMARY OF SHUT-DOWNS, PRESSURE TESTING PROCEDURES, METHODS OF CHLORINATION, SEQUENCE OF

H. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF NEW WATER MAINS AND THE ABANDONMENT OF EXISTING WATER MAINS WITH THE CITY OF ST. CHARLES. A MINIMUM OF TWO 2) WEEKS NOTICE SHALL BE PROVIDED TO THE CITY PRIOR TO THE OPERATION OF VALVES, WATER MAIN SHUT-DOWNS, PLACING WATER MAINS INTO SERVICE, PRESSURE TESTING, FLUSHING, AND CHLORINATION ACTIVITIES. THE CONTRACTOR SHALL NOTIFY RESIDENTS AND BUSINESSES AT LEAST 48 HOURS PRIOR TO ANY DISRUPTION OR SHUT-DOWN.

7. NO CONSTRUCTION PLANS SHALL BE USED FOR CONSTRUCTION UNLESS SPECIFICALLY MARKED "FOR CONSTRUCTION." PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT SAME TO THE ENGINEER BEFORE DOING ANY WORK, OTHERWISE THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTIONS FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTIONS, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND

8. WHEN CONSTRUCTION OPERATIONS TAKE PLACE ADJACENT TO PUBLIC ROADWAYS THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL LOOSE DEBRIS DEPOSITED ON THE PAVEMENT. THE STOCK PILING OF SPOILS FROM FOUNDATIONS OR UTILITY EXCAVATIONS WILL NOT BE ALLOWED ON

9. ALL WORK PERFORMED RELATIVE TO THIS IMPROVEMENT SHALL COMPLY WITH ALL APPLICABLE

11. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF THREE SANITARY FACILITIES AT ALL TIMES. ONE FACILITY WITHIN THE SOUTH AVENUE WORK ZONE, ONE FACILITY WITHIN THE INDIANA AVENUE WORK ZONE AND ONE FACILITY NEARBY THE ILLINOIS AVENUE WORK ZONE AT LOCATIONS APPROVED BY





ILLINOIS DESIGN FIRM # 184.001322 420 N. FRONT STREET, SUITE 100 McHENRY, ILLINOIS 60050 PHONE: 815.385.1778 | TOLL FREE: 800.728.7805

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SPECIAL ROVISION	ITEM #	ITEM DESCRIPTION	UNITS	TOTAL QUAN.	SPECIAL PROVISION	ITEM	ITEM DESCRIPTION	UNITS	TOTAL QUAN.	SPECIAL PROVISION	ITEM	ITEM DESCRIPTION	UNITS	TOTAL QUAN.	SPECIAL PROVISION	ITEM #	ITEM DESCRIPTION
	1	TREE REMOVAL (6 to 15 UNIT DIAMETER)	UNIT	1870		38	AGGREGATE BASE COURSE, TYPE B, 4"	SQ. YD.	340		75	BOX CULVERT END SECTIONS #3 (ILLINOIS AVENUE)	EACH	2		112	NON-SPECIAL WASTE DISPOSAL
	2	TREE REMOVAL (OVER 15 UNIT DIAMETER)	UNIT	1332		39	AGGREGATE BASE COURSE, TYPE B, 6"	SQ. YD.	1295		76	TRAVERSABLE PIPE GRATE	FOOT	559		113	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT
	3	TREE TRUNK PROTECTION	EACH	11		40	AGGREGATE BASE COURSE, TYPE B, 12"	SQ. YD.	423		77	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 12"	EACH	1		114	MOBILIZATION
	4	TREE ROOT PRUNING	EACH	11		41	BITUMINOUS MATERIALS (PRIME COAT)	LBS.	7740		78	METAL END SECTIONS, 12"	EACH	1	*	115	TRAFFIC CONTROL AND PROTECTION
	5	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU. YD.	1385		42	BITUMINOUS MATERIALS (TACK COAT)	LBS.	710		79	METAL END SECTIONS, 15"	EACH	2	*	116	SIGN PANEL, TYPE 1
	6	CHANNEL EXCAVATION	CU. YD.	13850		43	HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50	TON	265		80	GRATING FOR CONCRETE FLARED EN	D EACH	1		117	TELESCOPING STEEL SIGN SUPPORT
*	7	FURNISH AND PLACE EMBANKMENT, SPECIAL	CU. YD.	50		44	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	74		81	STORM SEWERS, CLASS B, TYPE 2, 12 PVC D3034 SDR-26	LIN FT.	324		118	THERMOPLASTIC PAVEMENT MARKI
	8	POROUS GRANULAR EMBANKMENT	CU. YD.	360		45	LEVELING BINDER (MACHINE METHOD), N50	TON	25		82	STORM SEWERS, CLASS A, TYPE 2, 15 RCP	LIN FT.	5		119	THERMOPLASTIC PAVEMENT MARKI
	9	TRENCH BACKFILL	CU. YD.	2650	*	46	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6" (COMPLETE)	SQ. YD.	50		83	STORM SEWERS, CLASS B, TYPE 2, 15 PVC D3034 SDR-26	LIN FT.	242		120	CONSTRUCTION LAYOUT
	10	GEOTECHNICAL FABRIC FOR GROUND	SQ YD	1520	*	47	HOT-MIX ASPHALT DRIVEWAY	SQ. YD.	395		84	STORM SEWER REMOVAL, 4"	LIN FT.	20	*	121	PEDESTRIAN TRUSS
	11	TOPSOIL EXCAVATION AND PLACEMENT	CU. YD.	3465	*	48	PORTLAND CEMENT CONCRETE	SQ. FT.	3730		85	STORM SEWER REMOVAL, 6"	LIN FT.	3		122	MEMBRANE WATERPROOFING
*	12	TOPSOIL FURNISH AND PLACE, 6"	SQ. YD.	695	*	49	PROWAG CURBING	LIN FT	61		86	STORM SEWER REMOVAL, 10"	LIN FT.	95	*	123	CONCRETE DEBRIS REMOVAL FRO
	13	EXPLORATION TRENCH 72 INCHES	LIN FT.	50		50	DETECTABLE WARNINGS	SQ. FT.	104		87	STORM SEWER REMOVAL, 12"	LIN FT.	500	*	124	REMOVE AND STORE SELECT
	14	EXPLORATION TRENCH 144 INCHES		50		51	PAVEMENT REMOVAL	SQ. YD	1335		88	STORM SEWER REMOVAL, 15"		220	*	125	SET SELECT FLAGSTONE
	15	SEEDING, CLASS 1B	ACRE	1 1 2 5		52	HOT-MIX ASPHALT SURFACE REMOVAL,	SO. YD.	42	*	89	DUCTILE IRON WATER MAIN, CLASS 5	2, UN FT	150	*	126	SANITARY SEWER NEW DROP
	16	NITROGEN FERTILIZER NUTRIENT		101	*	52	HOT-MIX ASPHALT SURFACE REMOVAL,	SO YD	66	*	90	WATER MAIN IN CASING PIPE, 8",		196	*	120	SANITARY SEWER NEW DROP
	10	POTASSIUM FERTILIZER NUTRIENT		101		53	DGE GRIND DRIVEWAY REMOVAL		470	*	01	WATER MAIN CASING PIPE INSULATION		150	*	127	CONNECTION, 10" NEW VALVE, 8" GATE VALVE
	10	MULCH, METHOD 2		1.02		55	SIDEWALK REMOVAL	SQ. 1D.	470	*	02	CONNECTIONS TO EXISTING WATER		105	*	120	VALVE VAULTS, 5' DIAMETER VAU
*	10	EROSION CONTROL BLANKET, DS75		1245		55	COMBINATION CURB AND GUTTER		1120		92	MAIN CATCH BASINS, TYPE B, 4' DIAMETER,			*	129	WITH TYPE 1 FRAME, CLOSED LID           REMOVE SANITARY SERVICE, SPEC
*	19	EROSION CONTROL BLANKET, S75-BN		1245		50	REMOVAL         CLASS D PATCHES, TYPE 4, 6"		1130		93	TYPE 1 FRAME, CLOSED LID         CATCH BASINS, TYPE B, 4' DIAMETER,		4	*	130	REMOVE SANITARY SEWER, 8",
т 	20	HEAVY EROSION CONTROL BLANKET,	SQ. YD.	4200		57	CLASS D PATCHES, TYPE 4, 9.5"	SQ. YD.	1250		94	TYPE 11 FRAME AND GRATE         INLETS, 2' DIAMETER, TYPE 11 FRAMI	EACH	3		131	SPECIAL REMOVE SANITARY SEWER, 10",
*	21	SC-150-BN TREES, QUERCUS BICOLOR, 2.5"	SQ. YD.	9000		58	REMOVAL OF EXISTING STRUCTURES	SQ. YD.	200		95	AND GRATE MANHOLES TO BE ADJUSTED WITH N	EW EACH		т 	132	SPECIAL ABANDON & FILL EXISTING SANIT
	22	CALIPER TREES, PLATANUS OCCIDENTALIS, 2.5"	EACH	7	*	59	(SOUTH AVE CULVERT) REMOVAL OF EXISTING STRUCTURES	EACH			96	FRAME AND CLOSED LID, TYPE 1 CATCH BASINS TO BE ADJUSTED WIT	EACH	2	*	133	SEWER, 6" ABANDON & FILL EXISTING SANIT
	23	CALIPER TREES. QUERCUS RUBBA. 2.5" CALIBER	EACH	8	*	60	(INDIANA AVE CULVERT) REMOVAL OF EXISTING STRUCTURES	EACH			97	NEW TYPE 11 FRAME AND GRATE	EACH		*	134	SEWER, 10" REMOVE WATER MAIN, 6", SPECIA
	24	TREES JUGLANS NIGRA 2 5" CALIBER	EACH	21	*	61	(ILLINOIS AVE CULVERT)	EACH			98	NEW FRAME AND CLOSED LID, TYPE 1	EACH	1	*	135	SANITARY SEW/ER BYPASS PLIMPI
	25		EACH	4	*	62	(9TH AVE CULVERT)	EACH	1	*	99		EACH	8	*	136	
	26		EACH	5	*	63	WALL REMOVAL	LIN FT.	330		100		EACH	3	*	137	CHLORIDE ASTM D-3034 SDR 26
	27	CALIBER	EACH	36		64		CU. YD.	31		101		EACH	5	*	138	CHLORIDE ASTM D-3034 SDR 26
	28		FOOT	660		65		EACH	3		102		EACH	9	*	139	DIRECTIONALLY DRILLED, 12"
	29		FOOT	3200	*	66	(INDIANA AVE - SOUTH SIDE)	SQ. FT.	157		103	SECTION	EACH	1	*	140	TYPE 1 FRAME, CLOSED LID
	30		EACH	37	*	67	SEGMENTAL CONCRETE BLOCK WALL #2 (INDIANA AVE - NORTH SIDE)	SQ. FT.	217		104	REMOVE EXISTING VALVE AND VAUL	F EACH	1	*	141	SANITARY SEWERS IN CASING PIP 10", POLYVINYL CHLORIDE ASTM D-3034 SDR 26
*	31	TEMPORARY EROSION CONTROL SEEDING	POUND	410	*	68	SEGMENTAL CONCRETE BLOCK WALL #3 (ILLINOIS AVENUE - SOUTH SIDE)	SQ. FT.	88		105	COMBINATION CONCRETE CURB & GUTTER, B-6.12	LIN FT	1215	*	142	SANITARY SEWER SERVICE, 6"
*	32	STONE RIPRAP, CLASS A1	SQ. YD.	2305	*	69	SEGMENTAL CONCRETE BLOCK WALL #4 (ILLINOIS AVENUE - NORTH SIDE)	SQ. FT.	80		106	CHAIN LINK FENCE, 5'	LIN FT	172	*	1/12	SANITARY SERVICE CLEANOUT
*	33	STONE RIPRAP, CLASS A5	SQ. YD.	1700	*	70	SEGMENTAL CONCRETE BLOCK WALL #5 (10TH AVENUE -WEST SIDE)	SQ. FT.	234	*	107	SPLIT RAIL WOOD FENCE	LIN FT	638	*	145	TEMPORARY FLOW BYPASS
*	34	STONE HAND PLACED RIPRAP, CLASS A5	SQ. YD.	295	*	71	SEGMENTAL CONCRETE BLOCK WALL #6 (PEDESTRIAN PATH)	SQ. FT.	144	*	108	BOARD-ON-BOARD WOOD FENCE, 6'	LIN FT	88	*	144	DIVERSION WALL
*	35	STONE RIPRAP, CLASS A7	SQ. YD.	31		72	PRECAST CONCRETE BOX CULVERT, 12' X 6'	LIN FT.	583		109	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	т 	145	SOIL PREPARATION
	36	FILTER FABRIC	SQ. YD.	2305		73	BOX CULVERT END SECTIONS #1 (SOUTH AVENUE)	EACH	4		110	ON-SITE MONITORING OF REGULATE SUBSTANCES	D DAYS	14	*	146	SEEDING (SPECIAL - NATIVE SPECI
	37	SUB-BASE GRANULAR MATERIAL, TYPE C, 4"	SQ. YD.	423		74	BOX CULVERT END SECTIONS #2 (INDIANA AVENUE)	EACH	2		111	SOIL DISPOSAL ANALYSIS	EACH	1	*	147	VARIOUS)
CTK		JOB DATE: OCTOBER 28, 2020	BAR IS ONE	E INCH ON DRAWINGS	NO.	DATE E	BY REVISION DESCRIPTION			ILLINOIS	I S DESIGN FIF	RM # 184.001322	FLOOD	REDUCT	ION & W	ATER	QUALITY
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xgt-1-dh01; xg-0-SC

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	SHEETS			

SUMMARY OF QUANTITIES

UNITS TOTAL QUAN.

CU. YD.

5108

SPECIAL PROVISION	ITEM	D	ITEM ESCRIPTION	UNITS	TOTAL QUAN.
*	148	CROSS VANE S	SPECIAL	EACH	18
*	149	MONITORING	AND MAINTENANCE	YEARS	3
*	150	GROUTING RI	PRAP IN-PLACE	CU. YD.	17
*	151	MAINTAIN AN UP-LIGHTING	D REPAIR RESIDENTI SYSTEM	AL L SUM	1
*	152	ITEMS AS ORD ENGINEER	DERED BY THE	LSUM	1
	FOR	BIDDING	ONLY		

SHEET NO.



: xgt-1-dh01-x; 86140185.02-xv-Gis_Base; xc-1-aerial; 170818-xc-drainage; xc-1-dsgn; xc-1-algn; xc-1-row; 170818-xv



s: xgt-1-d

FLOOD REDUCTION & WATER	QUALITY
IMPROVEMENTS - PHASE 1	
CITY OF ST. CHARLES, IL	
ST. CHARLES, IL	

SHEETS	SHEET NO.
TYPICAL SECTIONS - SOUTH AVE	



HOT-MIX ASPHALT MIXTURE REQUIREN	IENTS
MIXTURE TYPE	AIR VOIDS @ Ndes
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50	4% @ 50 Gyr.
CLASS D PATCHES (HMA BINDER IL-19 mm)	4% @ 50 Gyr.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112

FOR BIDD	ING ONLY
SHEETS TYPICAL SECTIONS - INDIANA AVE	SHEET NO.



MIXTURE TYPEAIR VOIDS @HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N504% @ 50 G	-MIX ASPHALT MIXTURE REQUIREMENTS	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50 4% @ 50 G	MIXTURE TYPE AIR VOIDS @ No	des
	SURFACE COURSE, MIX "D", IL-9.5, N50 4% @ 50 Gyr	
CLASS D PATCHES (HMA BINDER IL-19 mm) 4% @ 50 G	(HMA BINDER IL-19 mm) 4% © 50 Gyr	<b>.</b>

FOR BIDE	DING ONLY
SHEETS	SHEET NO.
TYPICAL SECTIONS - ILLINOIS AVE	9



HOT-MIX ASPHALT MIXTURE REQUIREM	ENTS
MIXTURE TYPE	AIR VOIDS @ Ndes
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50	4% @ 50 Gyr.
LEVELING BINDER (MACHINE METHOD), N50	4% @ 50 Gyr.
CLASS D PATCHES (HMA BINDER IL-19 mm)	4% @ 50 Gyr.

		EXIST. GROUND			<
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1	HIGH	ROCK	STABILIZATION
Ι	SCALE: N	I.T.S.	

- 1 EXISTING CHANNEL EXCAVATION MATERIAL TO BE REMOVED & DISPOSED OF AS UNSUITABLE MATERIAL UNLESS APPROVED FOR REUSE BY ENGINEER (EXCLUDING TOPSOIL STRIP & RESPREAD) 2 UNDISTURBED SUBGRADE
- PROPOSED RESTORATION & PLANTINGS (SEE PLANTING AND RESTORATION PLANS.)

- NOTE: WHERE EMBANKMENT IS CUT & RE-GRADED TOPSOIL = RESPREAD FROM STOCKPILE CREATED FROM TOPSOIL STRIP IN AREAS OF RE-GRADING.
- WHERE EMBANKMENT IS UNCHANGED (NO GRADING) TOPSOIL = SCARIFY / DISK EXISTING TOPSOIL & PREPARE FOR SEEDING & PLANTINGS.



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### **GENERAL NOTES:**



LEGEND									
	TOP SOIL (6" MINIMUM)								
S B B B	SCARIFY AND DISK SOIL								
	NATIVE SOIL								
	N.A.G. SC—150 BN EROSION CONTROL BLANKET OR EQUIVALENT								
	N.A.G. S75 BN EROSION CONTROL BLANKET OR EQUIVALENT								
iddaaddaaddaadda.	PROP. SEEDING (SEE PLANTING SPECIFICATIONS FOR SEED MIXTURES)								
	MESIC PRAIRIE MIX SEEDING (SEE PLANTING SPECIFICATIONS FOR SEED MIXTURES)								
	WET MESIC PRAIRIE MIX SEEDING (SEE PLANTING SPECIFICATIONS FOR SEED MIXTURES)								
	RIPRAP BEDDING CL A1 (RR 1)								
	STONE TOE ARMORING CL A4 THROUGH CL A6 (RR 4, RR 5, RR 6)								

## FOR BIDDING ONLY

SHEETS	
7TH AVE. CREEK TYF	PICAL SECTIONS
- WASHINGTON AVE.	TO SOUTH AVE.

SHEET NO. 11







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С Х
170818-xc-removals;
xc-1-algn;
170818-xv-survey;
xgt-1-dh01;

DRAWN BY:	СТК	JOB DATE:	OCTOBER 28, 2020	BAR IS ONE INCH ON	L	NO.	DATE	BY	REVISION DESCRIPTION
APPROVED:	DVM	JOB NUMBER:	170818	0 1	L				
CAD DATE:	10/23/2020	10:25:26 AM		IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY	L				
CAD FILE:	J:\2017\170	B18\CAD\Dwgs\	D∖15-18 TREE REM	IOVAL & TREE PROTECTION	ΡL	ANS.d	wg		

MATCH LINE - SHEET 16 MATCH LINE - SHEET 15











	TREE	REMOVE	REMOVE SURVEY TREE REMOV				TREE REMOVE SURVEY			TREE REMOVE SURVEY			TREE REMOVE SURVEY					TREE REMOVE SURVEY					TREE TRUNK PR			OTECTIO	N
TAG#	DBH (IN)	NORTHING	EASTING	NOTES	TAG# DBH (IN) NOR	THING	EASTING	NOTES	TAG# DBH (IN)	NORTHING	EASTING	NOTES	TAG#	DBH (IN)	NORTHING	EASTING	NOTES	TAG# [	OBH (IN)	NORTHING	EASTING	NOTES	TAG# I	OBH (IN)	NORTHING	EASTING	NOTES
1043	(24")	1911341.56	992096.48		3563 Stump 28" 1910	920.71	991873.22		3038 (9")	1911358.15	992018.15		4194	(15")	1910677.33	991933.56		4522	(7")	1910452.02	992067.61		2137	(10")	1911645.80	992141.36	
1044	(6")	1911334.92	992066.38		3564     (10")     19109       3568     (8")     10109	022.77	991875.16		3041 (6")	1911379.59	992010.16		4195	(9")	1910687.14	991946.08		4523	(18")	1910504.66	992041.55		2192	(18")	1911536.46	992173.34	
1045	(30")	1911382.27	992042.49		3569 Stump 10" 1910	940.39	991879.22		3076 (6")	1911197.35	992002.93		4198	(10")	1910710.12	991968.39		4525	(9")	1910524.01	992037.17		3280	(7")	1911112.57	991810.38	
1067	(27")	1911455.58	992018.08		3570 Stump 18" 1910	37.15	991884.21		3078 (12")	1911192.73	992000.24		4198	(18")	1910702.96	991976.78		4526	(7")	1910549.05	992032.65		3282	(11")	1911104.78	992082.15	
1068	(16")	1911467.56	992044.00		3571 Stump 27" 1910	940.69	991885.28		3079 (30")	1911187.76	992005.87		4230	(38")	1910809.94	991938.69		4527	(9")	1910556.87	992033.18		3460	(32")	1911050.63	992095.34	
1069	(9")	1911471.60	991995.08		3572 Stump 27" 1910	944.71	991887.25		3089 (15")	1911175.32	991998.96		4238	(7")	1910803.55	991946.76		4528	(11")	1910556.98	992030.33		3934	(30")	1910865.19	991967.67	
1099	(9")	1911560.07	991998.62		3573     (22")     19109       3574     (6")     10109	950.09	991888.62		3092 (26")	1911164.18	991994.12		4261	(8")	1910789.31	991952.58		4529	(7")	1910562.93	992036.77		4262	(24")	1910790.86	991955.89	
1100	(6")	1911547.72	992001.49		3577 Stump 11" 1910	963.12	991889.28		3095 (6")	1911155.56	991987.20		4263	(10)	1910759.85	991950.04		13029	(7)	1910159.92	992037.77		7000	(24")	1910268.51	991973.34	
1102	(20")	1911585.70	992001.24		3579 Stump 06" 1910	974.95	991898.50		3096 Stump 30"	1911155.64	991990.34		4272	(6")	1910756.50	991969.03		13163	(8")	1910164.28	992218.67		13363	(36")	1910323.77	992185.70	
1128	(10")	1911599.72	991929.20		3580 Stump 06" 1910	978.82	991897.85		3099 (7")	1911145.22	991984.47		4273	(14")	1910754.31	991969.05		13170	(16")	1910175.12	992218.04						
1281	(15")	1911572.04	992107.41		3581 Stump 06" 1910	85.54	991900.40		3100 (10")	1911144.18	991984.05		4279	(7")	1910752.77	991980.63		13171	(16")	1910177.83	992220.22						
1311	(26")	1911499.40	992088.91		3582     (9")     19109       7583     (0")     10109	986.79	991905.90		3101 (10")	1911142.92	991986.13		4280	(8")	1910742.94	991986.13		13346	(20")	1910208.24	992239.07						
1526	(9")	1911327.32	991999.41		3583 (9) 1910 3584 (10") 1910	93.28	991906.22		3103 (12")	1911135.61	991981.05		4281	(7")	1910724.84	991987.72		13347	(6)	1910240.84	992212.03						
1528	Stump 15"	1911315.84	991980.38		3585 Stump 08" 1910	996.72	991903.30		3106 (10")	1911131.16	991984.01		4321	(7")	1910682.67	991964.23		13349	(16")	1910263.41	992198.26						
1529	(13")	1911312.47	991972.56		3586 Stump 06" 1911	00.45	991909.88		3107 (12")	1911133.84	991977.30		4322	(7")	1910660.29	991997.33		13359	(6")	1910283.01	992184.94						
1530	(10")	1911310.55	991961.01		3587 Stump 06" 19110	)02.36	991911.41		3109 (10")	1911123.18	991976.22		4323	(9")	1910659.00	991997.98		13360	(30")	1910296.86	992171.62						
1531	(24")	1911334.31	991965.82		3588 Stump 06" 19110	06.14	991910.51		3111 (7")	1911113.60	991968.13		4325	(16")	1910656.16	991998.79		13361	(8")	1910305.97	992165.55						
1547	(7")	1911264.38	991992.65		3590 Stump 16" 19110	)12.27	991918.52		3120 (12")	1911097.80	991969.89		4326	(12")	1910652.88	992001.48		13362	(20")	1910315.82	992160.43						
1548	(18)	1911256.86	991979.04		3591 Stump 16 1911	)25.37	991921.58		3121 (25)	1911097.29	991965.99		4327	(16)	1910649.88	992001.61		13372	(10)	1910345.51	992140.20						
1550	(7")	1911280.05	991994.18		3593 (13") 19110	)29.20	991925.01		3146 Stump 15"	1911065.87	991945.84		4329	(16")	1910633.11	992001.40		13377	(20")	1910326.42	992151.70						
1551	(8")	1911281.90	991998.64		3594 (17") 19110	)34.16	991927.74		3147 (10")	1911064.26	991944.93		4330	(12")	1910630.10	992009.58		13378	(6")	1910364.01	992133.30						
1630	(10")	1911204.65	991971.61		3604 Stump 06" 19110	)31.42	991927.97		3150 Stump 15"	1911054.93	991940.60		4331	(11")	1910636.82	992013.17		13379	(8")	1910365.89	992134.69						
1921	(8")	1911653.65	992245.06		3848 (33") 1910	987.31	992031.94		3151 (8")	1911050.34	991937.44		4332	(10")	1910631.36	992017.69		13380	(10")	1910370.20	992127.85						
2045	(10")	1911638.39	992251.17		4015 (9") 19108	371.58	991880.78		3152 Stump 12"	1911043.27	991934.66		4333	(15")	1910646.95	991985.24		13381	(1")	1910379.78	992137.83						
2056	(/*)	1911616.98	992251.82		4052 (6 ^{°°} ) 1910 4068 (8°°) 1910	355.99	991881.08		3153 (13 [°] )	1911041.71	991931.59		4334	(8")	1910631.55	991980.52		13507	(8")	1910197.75	992205.03						
2057	(14")	1911613.30	992244.00		4072 (7") 1910	363.39	991915.33		3263 (0)	1911137.57	992075.00		4336	(11")	1910617.22	991961.01		13516	(10)	1910230.14	992174.85						
2063	(15")	1911614.15	992233.04		4073 Stump 30" 1910	358.06	991917.62		3277 (10")	1911128.05	992064.67		4372	(6")	1910569.33	992055.62		13517	(8")	1910242.31	992176.71						
2064	(11")	1911611.60	992225.42		4074 (7") 19108	353.95	991919.14		3289 (14")	1911119.37	992057.51		4373	(10")	1910585.72	992057.61		13523	(6")	1910277.48	992153.85						
2066	(7")	1911611.76	992220.10		4080 (18") 1910	343.75	991927.93		3290 (6")	1911120.11	992055.28		4374	(7")	1910615.68	992044.76		13524	(8")	1910279.47	992154.42						
2069	(24")	1911615.70	992212.91		4081 (7") 19108	346.60	991920.09		3296 (10")	1911060.52	992052.91		4375	(6")	1910612.61	992044.41		13573	(8")	1910469.96	992126.63						
2070	(8")	1911627.40	992227.44		$4096$ $(12^{\circ})$ $19103$	356.87	991894.65		3298 (8 [°] )	1911097.97	992036.89		4376	(9 [°] )	1910619.26	992043.35		13675	(6")	1910384.63	992124.93						
2071	(30")	1911642.36	992232.23		4101 (7") 1910	334.80	991908.01		3325 (6")	1911121.22	992054.36		4380	(18")	1910632.65	992046.59		13677	(6")	1910397.42	992119.00						
2103	(15")	1911612.11	992203.34		4102 (9") 19108	333.16	991909.29		3326 (6")	1911125.41	992051.43		4381	(16")	1910635.80	992043.91		13678	(10")	1910399.17	992123.87						
2104	(6")	1911611.83	992201.96		4148 (6") 1910	789.28	991928.40		3327 (8")	1911118.94	992041.97		4382	(6")	1910638.10	992033.92		13679	(16")	1910402.36	992130.44						
2107	(14")	1911603.95	992180.91		4149 (7") 1910	309.99	991916.46		3328 (8")	1911117.29	992038.22		4386	(18")	1910700.27	991999.18		13689	(16")	1910380.27	992097.72						
2108	(8")	1911604.15	992191.25		4150 (10") 19108	322.05	991909.93		3329 (6")	1911098.60	992006.41	<b> </b>	4418	(6")	1910463.02	992081.98		13690	(8")	1910369.83	992098.45						
2112	(6)	1911621.68	992180.95		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	755.60 769.15	991896.15		3330 (7)	1911096.83	991992.15		4419	(11)	1910469.00	992078.17		13691	(12)	1910364.80	992098.68						
2179	(11")	1911599.42	992158.19		4178 (6") 1910	763.86	991942.79		3347 (6")	1911137.74	992005.81		4421	(32")	1910482.19	992076.58											
2279	(18")	1911588.65	992125.92		4179 (6") 1910	758.85	991948.34		3469 (9")	1911076.67	991980.47		4422	(7")	1910493.50	992070.25											
2369	(16")	1911500.38	991975.33		4180 (6") 1910	757.49	991951.67		3470 (6")	1911082.78	991978.79		4423	(13")	1910492.28	992068.28											
2383	(10")	1911472.36	991997.53		4181 (6") 1910	47.25	991955.41		3474 (7")	1911070.94	991972.11		4424	(16")	1910505.23	992063.80											
2390	(30")	1911504.95	991928.23		4182 (12") 1910	744.65	991953.36		3475 (9")	1911047.31	991959.74		4425	(8")	1910506.88	992061.16											
2419	(19")	1911574.37	991895.77		4183 (8 [°] ) 1910 [°]	743.38	991955.49		3476 (11")	1911043.68	991957.72		4426	(6")	1910513.54	992059.47											
2529	(12)	1911535.84	991905.99		4185 (11") 1910 4185 (11")	746.12	991904.61		3478 Stump 15"	1911003.00	991935.28		4427	(17)	1910526.80	992058.06											
2556	(6")	1911490.33	991929.70		4186 (15") 1910	735.71	991904.86		3489 (6")	1911040.92	991999.13		4429	(17")	1910530.68	992060.16											
2572	(10")	1911464.06	991976.13		4189 (9") 1910	24.16	991921.16		3528 (13")	1910971.69	991919.95		4431	(7")	1910551.79	992056.48											
2807	(24")	1911486.59	991855.05		4190 (9") 1910	/10.45	991925.17		3529 Stump 16"	1910966.24	991921.62		4501	(8")	1910470.69	992126.42											
2958	(6")	1911398.87	992021.33		4191 (20") 1910 ⁻	702.25	991930.94		3543 (13")	1910960.94	991915.19		4520	(15")	1910440.04	992067.76									יחום בחם		
2962	(20")	1911420.30	992012.27		4192 (20") 1910	/00.21	991918.28		3554   Stump 10"	1910940.20	991907.93		4521	(11")	1910441.81	992068.40											
DRAWN B	: <u>CTK</u>	JOB DATE:	OCTOBER 28,	2020	BAR IS ONE INCH ON OFFICIAL DRAWINGS.	DATE BY	Y R	REVISION DESC	CRIPTION		LINOIS DESIGN FIRM #	184.001322		FLO			VATER QU	ALITY		SHE	ETS					SHEET	T NO.
APPROVED	: <u>VVM</u> 10/23/20	JOB_NUMBE 020_10:25:26_AM	ER: <u>170818</u> I		1" IF NOT ONE INCH,						∠U N. FRUNI SIREET, CHENRY, ILLINOIS 6005	0 0			Y OF ST. (	5 — PHAS CHARLES							S			1	8
CAD FILE:	J:\2017\	\170818\CAD\Dwo	gs\D\15—18 TR	EE REMOVAL	& TREE PROTECTION PLANS.dw	9				HRGreen	HONE: 815.385.1778   AX: 815.385.1781   HR	TOLL FREE: 800.7: Green.com	28.7805	ST.	CHARLES, IL								-				

### STORM STRUCTURES

SANITARY STRUCTURES SA-100: MANHOLE ST-100: INLET RIM: 731.36 RIM: 716.43 INV N: 727.56 (12" PVC) INV NE: 710.71 (10" PVC) INV SW: 727.61 (12" PVC) SA-101: LIFT STA MANHOLE ST-101: INLET RIM: 722.64 RIM: 732.74 (STRUCTURE LID LOCKED) INV W: 729.89 (12" RCP) SA-102: LIFT STA MANHOLE INV NE: 728.99 (12" RCP) RIM: 722.62 ST-102: INLET T/P SW: 710.71 (2 @ 1.5" STEEL) RIM: 731.23 INV E: 728.93 (12" PVC) SA-103: MANHOLE RIM: 720.11 ST-103: MANHOLE INV N/NE&SW: 705.91 (12" VCP) RIM: 731.11 INV NE: 705.91 (12" VCP) INV W: 727.46 (12" RCP) INV S: 727.46 (12" RCP) SA-104: MANHOLE INV E" 727.36 (12" RCP) RIM: 719.50 INV NE: 706.25 (8" VCP) ST-104: FES INV SW: 706.10 (8" VCP) INV W: 725.88 (12" RCP) SA-105: MANHOLE ST-105: OUTLET RIM: 719.21 INV: 711.82 (18" RCP) INV NW&SW: 706.11 (12" VCP) ST-106: INLET SA-106: MANHOLE RIM: 715.56 RIM: 719.15 INV NE: 712.86 (18" RCP) INV NE: 708.20 (8" VCP) INV SW: 712.78 (18" RCP) INV SW: 707.45 (8" VCP) (REMOVE 90 LIN FT STARTING FROM STRUCTURE) ST-107: MANHOLE RIM: 718.14 SA-107: MANHOLE INV SW: 715.49 (18" RCP) RIM: 725.71 INV NE: 715.54 (18" RCP) INV NE&SW: 717.71 (6" VCP) INV NW&SE: 717.71 (8" VCP) ST-108: INLET RIM: 719.59 INV W: 716.59 (12" RCP) WATER MAIN STRUCTURES ST-109: MANHOLE RIM: 720.10 INV W/NW: 716.70 (12" RCP) WM-100: VALVE VAULT (ADJUST) INV NW: 715.60 (12" RCP) RIM: 718.32 INV NE: 716.30 (12" RCP) T/P NW&SE: 710.77 ST-110: INLET WM-101: VALVE VAULT (REMOVE) RIM: 721.53 RIM: 718.03 INV SE: 717.26 (12" RCP) ST-111: MANHOLE RIM: 719.30 INV SE: 713.35 (12" PVC) INV NE: 713.05 (12" PVC) INV NW: 714.10 (12" RCP) ST-112: CATCH BASIN RIM: 719.02 INV SW: 715.32 (12" RCP) INV SE: 715.22 (12" RCP) INV NW: 716.52 (6" PVC) ST-113: INLET RIM: 720.82 INV NE: 717.92 (12" RCP) ST-114: PIPE IN CULVERT ST-115: INLET (REMOVE - TBF: 0.5 CU YD) RIM: 716.90 INV SW: 713.40 (12" RCP) ST-116: PIPE IN CULVERT INV NE: 711.7± (12" RCP) (REMOVE 14 LIN FT) ST-117: INLET RIM: 723.28 INV NW: 720.45 (12" RCP) INV SE: 721.15 (4" PVC) ST-118: INLET RIM: 723.28 INV NW: 720.22 (12" RCP) INV SE: 720.22 (12" RCP) ST-119: MANHOLE RIM: 724.86 INV W: 721.26 (12" RCP) INV NE: 721.28 (12" RCP) ST-120: MANHOLE RIM: 724.13 INV SW: 719.70 (12" RCP) INV E: 720.50 (12" RCP) INV S: 719.80 (12" RCP) ST-121: MANHOLE (REMOVE) RIM: 716.91 INV SW: 712.51 (15" RCP) (REMOVE 16 LIN FT) INV S: 712.91 (12" RCP) (REMOVE 11 LIN FT) ST-122: INLET (REMOVE); TBF: 0.5 CU YD RIM: 716.79 INV SW: 713.49 (12" RCP) (REMOVE) ST-123: INLET (REMOVE - TBF 0.5 CU YD) RIM: 716.80 INV NE: 713.65 (12" RCP) (REMOVE) ST-124: PIPE IN CULVERT INV: 711.6± (15" RCP) (REMOVE)

### BAR IS ONE INCH ON DRAWN BY: MPL OCTOBER 28, 2020 NO. | DATE **REVISION DESCRIPTION** JOB DATE: BY OFFICIAL DRAWINGS. APPROVED: DVM JOB NUMBER: 170818 IF NOT ONE INCH, CAD DATE: 10/28/2020 8:19:40 AM ADJUST SCALE ACCORDINGLY CAD FILE: J:\2017\170818\CAD\Dwgs\D\19-21 EXISTING CONDITIONS & DEMO PLAN PLANS.dwg

MATCH LINE - SHEET 20 MATCH LINE - SHEET 19 CIP CONC. RETAINING-WALL REM, 63 LIN FT (TOPPLED)

ST-200

T/P SW&NE: 712.03 (REMOVE) INV SW: 713.2± (12" RCP) (REMOVE 16 LIN FT STARTING FROM CULVERT) INV NE: 713.01 (12" RCP) (REMOVE 75 LIN FT STARTING FROM STRUCTURE) INV N: 713.64 (12" RCP) (REMOVE 7.0 LIN FT - TBF: 5.7 CU YD)



420 N. FRONT STREET, SUITE 100 McHENRY, ILLINOIS 60050
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FLOOD REDUCTION & WATER QUALITY IMPROVEMENTS - PHASE 1 CITY OF ST. CHARLES, IL ST. CHARLES, IL

SHELIS					
EXISTING	CONDITIONS	3	DEMO	PLAN	_
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DRAWN BY: MPL JOB DATE: OCTOBER 28, 2020 BAR IS ONE INCH ON	NO.	DATE	BY	REVISION DESCRIPTION
APPROVED: DVM JOB NUMBER: 170818 0				
CAD DATE: 10/28/2020 8:19:40 AM				
CAD FILE: J:\2017\170818\CAD\Dwgs\D\19-21 EXISTING CONDITIONS & DEMO PLAN	PLANS.C	wg		



ILLINOIS DESIGN FIRM # 184.001322 420 N. FRONT STREET, SUITE 100 McHENRY, ILLINOIS 60050 HRGreen PHONE: 815.385.1778 | TOLL FREE: 800.728.7805 FAX: 815.385.1781 | HRGreen.com

FLOOD REDUCTION & WATER QUALITY CITY OF ST. CHARLES, IL ST. CHARLES, IL

ST-120

STORM STRUCTURES ST-200: MANHOLE RIM: 716.89 INV E: 713.94 (12" RCP) INV S: 714.04 (12" RCP) ST-201: CATCH BASIN RIM: 716.19 INV SE: 712.94 (10" RCP) INV W: 712.94 (12" RCP) INV NE: 712.54 (12" RCP) ST-202: FES (REMOVE) INV: 711.50 (12" RCP) (REMOVE 50 LIN FT STARTING FROM STRUCTURE) ST-203: INLET **(REMOVE)** RIM: 717.44 INV SW: 713.09 (10" PVC) INV NE: 713.09 (10" PVC) (REMOVE 24 LIN FT) ST-204: PIPE IN CULVERT INV SW: 713.3± (10" RCP) (REMOVE 11 LIN FT) ST-205: PIPE IN CULVERT INV NE: 713.5± (15" RCP) (REMOVE 55 LIN FT STARTING FROM CULVERT) ST-206: MANHOLE RIM: 719.98 INV SW: 715.08 (15" RCP) INV SE: 715.38 (15" RCP) ST-207: PIPE IN CULVERT (COULD NOT LOCATE) ST-208: MANHOLE RIM: 721.63 INV SW: 716.88 (10" VCP) (REMOVE 50 LIN FT STARTING FROM CULVERT) INV NE: 719.93 (10" VCP) INV N: 717.53 (10" RCP) ST-209: INLET RIM: 722.23 INV S: 718.63 (10" RCP) ST-210: CATCH BASIN RIM: 719.87 INV NW: 716.82 (10" PVC) INV NE: 716.72 (12" RCP) INV SW: 716.62 (10" RCP) ST-211: MANHOLE RIM: 719.09 INV NE: 716.14 (10" RCP) INV E: 715.79 (12" RCP) INV W: 715.79 (12" RCP) ST-212: INLET RIM: 719.00 INV SW: 716.80 (10" RCP) ST-213: PIPE IN CULVERT INV W: 713.6± (12" RCP) (REMOVE 33 LIN FT STARTING FROM CULVERT -TBF: 11.4 CU YD) ST-214: INLET (REMOVE) RIM: 717.38 INV NE: 714.53 (6" PVC) (REMOVE 3 LIN FT)) ST-215: PIPE IN CULVERT INV W: 714.5± (6" PVC) (REMOVE) ST-216: PIPE IN CULVERT INV W: 714.9± (12" RCP) (REMOVE 33 LIN FT - TBF: 7.3 CU YD) (APPEARS TO BE ABANDONED)

### SANITARY STRUCTURES

SA-200: MANHOLE RIM: 719.62 INV NW&SE: 708.7± (12" VCP) INV NE&SW: 708.7± (8" VCP) SA-201: MANHOLE RIM: 724.64 INV SW: 715.44 (10" VCP) (REMOVE 205 LIN FT) INV NE: 718.74 (10" VCP) INV NW: 717.94 (6" VCP) INV SE: 720.09 (6" VCP) SA–202: MANHOLE (DROP) RIM: 724.88 INV SE&NE: 708.98 (12" VCP) INV W: 708.98 (8" VCP) INV W (UPPER): 718.8 (6" VCP)

### WATER MAIN STRUCTURES

WM-200: VALVE VAULT RIM: 718.87 T/P NW&SE: 713.97 WM-201: VALVE VAULT RIM: 718.77 T/P: NW&SE: 713.87





STORM STRUCTURES ST-300: INLET RIM: 717.99 INV W: 715.79 (12" RCP) ST-301:CATCH BASIN RIM: 718.22 INV SW: 715.52 (6" DI) INV S: 715.32 (15" RCP) INV E: (COULD NOT MEASURE) (12" RCP) ST-302: MANHOLE RIM: 718.53 INV N: 714.73 (15" RCP) INV SW: 714.73 (15" RCP) INV SE: 714.88 (15" RCP) ST-303: CATCH BASIN RIM: 718.63 SUMP: 713.63 INV NW: 714.83 (15" RCP) INV NE: 714.78 (15" RCP) ST-304: CATCH BASIN (REMOVE) RIM: 717.72 INV SW: 714.47 (15" RCP) INV NE: 714.52 (15" RCP) INV E: 714.57 (10" PVC) ST-305: INLET (REMOVE) RIM: 717.50 INV SW: 714.75 (10" RCP) (REMOVE 7 LIN FT) INV SE: 715.92 (4" PVC) (REMOVE 19 LIN FT) ST-306: PIPE IN CULVERT (REMOVE 39.0 LIN FT - TBF: 16.8 CU YD) INV SW: 714.1± (15" RCP) ST-307: CATCH BASIN (REMOVE) RIM: 717.38 INV NE: 714.13 (15" RCP) ST-308: PIPE IN CULVERT (REMOVE 68.0 LIN FT - TBF: 33.8 CU YD) INV SW: 714.3± (12" RCP) ST-309: PIPE IN CULVERT INV NW: 714.2± (12" RCP) (REMOVE 78 LIN FT STARTING FOR CULVERT -TBF: 7.1 CU YD) ST-310: CATCH BASIN RIM: 722.20 INV N: 718.50 (12" RCP) INV SW: 718.50 (12" RCP) INV SE: 720.10 (4" PVC) ST-311: CATCH BASIN (ADJUST) RIM: 722.32 INV S: 719.52 (12" RCP) ST-312: INLET (REMOVE) RIM: 721.50 INV E: 718.05 (12" RCP) ST-313: CATCH BASIN (REMOVE) RIM: 720.99 INV W: 717.69 (12" RCP) (REMOVE 26' STARTING FROM STRUCTURE) INV NE: 717.39 (15" RCP) (REMOVE 107 LIN FT)

ST-314: OUTLET (REMOVE)

INV: 716.15 (18" CMP)

SANITARY STRUCTURES

SA-300: MANHOLE (DROP) RIM: 718.88 INV NW (UPPER): 714.48 (10" VCP) INV SW&NE&NW: 710.48 (10" VCP) (REMOVE 184 LIN FT FOR NE SEWER) SA-301: MANHOLE (DROP) RIM: 719.01 INV NW&NE&SW&SE: 710.31 (10" VCP) INV SE (UPPER): 714.41 (8" VCP) SA-302: MANHOLE RIM: 718.60 INV SW: 710.48 (10" VCP) INV NW: 710.48 (10" DI) SA-303: MANHOLE RIM: 722.08 INV SW&NE: 711.63 (10" PVC) SA-304: MANHOLE **(ADJUST)** RIM: 725.25 INV SW&NE: 712.65 SA-305: MANHOLE (ADJUST) RIM: 721.53 INV NW&SW&SE: 712.53 (10" VCP) SA-306: MANHOLE (REMOVE) RIM: 720.98 INV NE: 711.03 (10" DI) (ABANDON 111 LIN FT) INV SE: 711.03 (10" DI) SA-307: MANHOLE (REMOVE) RIM: 718.94 INV NE&SE: 711.84 (10" DI) (REMOVE 148 LIN FT) SA-308: MANHOLE (REMOVE) RIM: 722.11 INV NW: 713.01 (10" DI) INV SE: 713.01 (8" VCP) (REMOVE 76 LIN FT) INV SW: 712.91 (10: DI) (REMOVE 216 LIN FT)) INV NE: 712.91 (10" DI) SA-309: MANHOLE RIM: 722.65 INV NW: 713.05 (6" VCP) INV SW: 713.15 (6" VCP) INV SE: 713.05 (10" DI) SA-310: MANHOLE (REMOVE - TBF: 6.5 CU YD) RIM: 722.41 INV NW: 713.16 (6" VCP) (REMOVE) INV S: 713.26 (6" VCP) (REMOVE) INV N/NW: 713.16 (8" VCP) (REMOVE)

WATER MAIN STRUCTURES

WM-300: VALVE VAULT RIM: 718.61 T/P NW&SE: 713.91 WM-301: VALVE VAULT RIM: 724.95 T/P SW&NE&NW: 718.55

ST-315: CULVERT END <b>(REMOVE)</b> INV SE: 717.15 (12" CMP) <b>(REMOVE 84</b>	LIN FT)	
ST—316: INLET <b>(REMOVE)</b> RIM: 718.03 INV N: 714.63 (6" VCP)		
ST-317: INLET <b>(REMOVE)</b> RIM: 717.85		LEGEND:
ST-318: DROP INLET		INDICATES EXISTING WETLAND LIMITS
RIM: 721.07		INDICATES PAVEMENT REMOVAL OR PATCHES
ST-319: INCE RIM: 720.82 INV SE: 719.12 (10" PVC) ST-320: DROP INLET RIM: 720.88		INDICATES DRIVEWAY PAVEMENT REMOVAL • CONCRETE • HMA
INV NW: 719.13 (10" PVC)		INDICATES SIDEWALK REMOVAL
		INDICATES CLEARING AND GRUBBING AREA
		INDICATES NON-SPECIAL WASTE REMOVAL AREA
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	INDICATES PROPOSED DRAINAGE DIRECTION ARROW.
	INDICATES HIGH FLOW EVENT PATH
-    -	INDICATES PROPOSED RETAINING WALL LOCATION (SEE STRUCTURAL PLANS FOR DETAILS)

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HRGreen	ILLINOIS DESIGN FIRM # 184.001322 420 N. FRONT STREET, SUITE 100 McHENRY, ILLINOIS 60050 PHONE: 815.385.1778   TOLL FREE: 800.728.7805 FAX: 815.385.1781   HRGreen.com	FLOOD REDUCTION & WATER QUALITY IMPROVEMENTS – PHASE 1 CITY OF ST. CHARLES, IL ST. CHARLES, IL

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ST-2805: BOX CULV END SECTION STA & O/S: 105+55.50 INV S/SE: 708.90 ST-2806: BOX CULV END SECTION STA & O/S: 105+55.50 INV S/SE: 708.90	#1, 29'-3" ), 10.70' LT   #1, 29'-3" ), 3.56' RT	ST-2807: PRECAST CO 12", SPL STA & O/S INV SW: 71	DNC FLARED : 107+67.75 3.10	END SECTION 28.28' LT	,
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6" 7TH AVE.				ST-2901: BOX CULV END SECTION #: STA & O/S: 109+70.83, 0 INV N/NW: 708.90	2, .80'RT
	Solution of the second se	BIT DR	$ \begin{array}{c c} & & & & \\ & & \\ & \\ \hline \\ & \\ \\ & \\ \\ & \\ \\ \\ \\$	ST–2902: PRECAST CONC BOX CULV 12'X6', 143.7 LIN FT @ 0. TBF: 289.5 CU YD	16%
BRACE POLE (BY OTHERS)	#216 	× 103		ST—2903: PRECAST CONC BOX CULV 12'X6', 131.2 LIN FT @ 0. TBF: 289.5 CU YD	16%
ST-2902	Real Provide American Americ American American Americ	ARAME	$\begin{array}{c c} & & & \\ & & \\ & & \\ & \\ & \\ & \\ & \\ & $	ST-2904: BOX CULV END SECTION #: STA & O/S: 111+30.47 0. INV S/SE: 709.13	2, 00'RT
ST-2903	WOOD FEINCE X	FLOODWAY	-YR O DDPLAIN	LEGEND:	
RACE POLE				INDICATES PROPOSED DRA DIRECTION ARROW. INDICATES HIGH FLOW EVA INDICATES PROPOSED RET WALL LOCATION (SEE STR PLANS FOR DETAILS)	INAGE ENT PATH AINING UCTURAL
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ILLINOIS DESIGN FIRM # 184.001322 420 N. FRONT STREET, SUITE 100 MCHENRY, ILLINOIS 60050	FLOOD REDUCTION & WATER IMPROVEMENTS - PHASE 1 CITY OF ST CHARLES !!	QUALITY SHEETS PLAN & F	PROFILE – SANITARY SEWER	FOR BIDDING ONLY SHEET NO. 37

BRACE POLES (BY OTHERS) BRACE POLES (BY OTHERS) Proposed Sanitary Sta.=117+97.11 N=1910968.510 E=992038.402 INDIANA AV B B B B B B B B B B B B B B B B B B B	4' DIA. 1, 0+00' RT (10" PVC) 4 (10" VCP) 5 (10" PVC) 5 (10" PVC)			LEGEND: DICATES MAINTAIN LE.PA'S RTICAL SEPARATION QUIREMENTS
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			FOR E	BIDDING ONLY
HRGreer	ILLINOIS DESIGN FIRM # 184.001322 420 N. FRONT STREET, SUITE 100 McHENRY, ILLINOIS 60050 PHONE: 815.385.1778   TOLL FREE: 800.728.7805 FAX: 815.385.1781   HRGreen.com	FLOOD REDUCTION & WATER QUALITY IMPROVEMENTS – PHASE 1 CITY OF ST. CHARLES, IL ST. CHARLES, IL	SHEETS PLAN & PROFILE - SANITARY SEWER INDIAN AVE	NA SHEET NO.



	FLOODWAY AIN PR REFERENCE LINE				LEGEND:	
	SAN SEWER, 10" PVC ASTM D-3034 (SDR-26), 318.5 LIN FT @ 0.35% TBF: 397.7 CU YD	BRACE POLE (BY OTHERS) SAN MANHOLE, 4' DIA. TYPE 1 FR, CL STA. 121+15.61, 0+00' RT RIM: 720.48 INV NE: 711.28 INV S: 710.77 (10" PVC)	60.0 R.O.N. R.O.N. R.O.N. C.S. T.T. T.	Proposed Sanitary Sewer Sta.=121+52.68 N=1911319.866 E=992092.963	Control Point MG	
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TE, 4' DA 3. 13.76° LT 16.15° PVC) 16.15°	PR G OVER SANIT	ROUND PR ARY		· / / / / / / / / / / / / / / / / / / /	— EX GAS MA (TO BE RE BY OTHERS	NIN, 2" MOVED S)	· · ·	· · ·	· ·	· ·	
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G	G		<u> </u>	G 5+00 75+07	Alignm Sta.=7 N=191 E=992	nent – 75+06 1858. 2178.7	10th .90 958 09		LE INDICATE DIRECTION INDICATE WALL LO PLANS INDICATE VERTICA REQUIRE INDICATE 4, 9.5" SHEET INDICATE PAVEMEN INDICATE (COMPL	GEND ES PROF DN ARRO ES HIGH ES PROF DCATION FOR DET ES UTILI ES MAINT ES CLAS (SEE T 10) ES PCC ETE)	): POSED DR FLOW EV POSED RE (SEE STF AILS) TY TAGS TAIN I.E.P/ RATION S D PATC YPICAL SE DRIVEWAY (COMPLETE SIDEWALK	AINAGE ENT PATH TAINING RUCTURAL A'S H, TYPE CTION ON E) , 5"
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	7th Ave Creek Sta.=702+18 N=1910985. E=992015.	E=99207 N=191101 PI Sta.=702+7 R=3 L=69 $\Delta=69^{\circ}1$ PC Sta.=702+ PT Sta.=703+7 Frail 3.52 088 396	0.503 9.152 83/30 57.24 9.189 5'34.6' 43.78 12.96 MATCH			724	720 28 (7) 122 X 122 X 123 X 12
	SPLIT RAIL WOOD FENCE 124.0 LF			STA 102+50	2.58(EX)	B.0.W.	
CONC 3934 (30") FRAME GARAGE	PR REFERENCE LINE (© OF PATH)				<u><u>G</u><u><u>G</u><u>G</u><u>G</u><u>G</u><u>G</u><u>G</u><u>G</u><u>G</u><u>G</u><u>G</u><u>G</u><u>G</u></u></u>		G G G
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HRGreen	ILLINOIS DESIGN FIRM # 184.001322 420 N. FRONT STREET, SUITE 100 McHENRY, ILLINOIS 60050 PHONE: 815.385.1778   TOLL FREE: 800.7 FAX: 815.385.1781   HRGreen.com	28.7805	FLOOD R IMPROVE CITY OF ST. CHARL	EDUCTION MENTS – ST. CHAR ES, IL	& WATER PHASE 1 LES, IL	QUALITY	

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E=992094.554 N=1911185.611 Sta=704+52.36 R=80.59' L=74.406' A=52°54'03.5° Sta=704+12.26 Sta=704+186.67' (34')				Implicates proposed drainage         Implicates proposed drainage         Implicates high flow event path         Implicates proposed retaining         Implicates utility tags         Implicates utility tags         Implicates the path         Implicates utility tags         Implicates the path         Implicates utility tags         Implicates the path         Implicates the path         Implicates utility tags         Implicates the path         Implicates
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ILLINOIS DESIGN FIRM # 184.001322         420 N. FRONT STREET, SUITE 100         MCHENRY, ILLINOIS 60050         PHONE: 815.385.1778   TOLL FREE: 800.728         FAX: 815.385.1781   HRGreen.com	^{18.7805} FLOOD REDUCT IMPROVEMENTS CITY OF ST. C ST. CHARLES, IL	TION & WATER QUALITY — PHASE 1 HARLES, IL	SHEETS PLAN & PROFILE - MULTI-USE 702+50 TO 705+00	PATH STA





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SHEET PLAN 707+	S   <b>&amp; PR</b> ⊦ <b>50 TO</b>	OFILE - 711+00	MULT	I–US	e pa	TH STA		SF	ieet no. <b>44</b>



GARAGE	FLOODWAY	#23 E=992211.781 N=1911652.845 PI Sta.=713+75.13 R=150.00' L=33.168' PC Sta.=713+91.64 PT Sta.=9922	Control Point Mag 60.0 .0.W. HLO We Creek Trail 714+09.26 11671.758 2240.359		LEG INDICATES DIRECTION INDICATES WALL LOC PLANS FO INDICATES WERTICAL REQUIREM INDICATES TYPICAL S INDICATES TYPICAL S	END: PROPOSED DRAINAGE A ARROW. HIGH FLOW EVENT PATH PROPOSED RETAINING CATION (SEE STRUCTURAL DR DETAILS) UTILITY TAGS MAINTAIN I.E.PA'S SEPARATION HMA PAVEMENT (SEE SECTION ON SHEET 86) PCC SIDEWALK 5" T
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HRGreen FA	LINOIS DESIGN FIRM # 184.001322 20 N. FRONT STREET, SUITE 100 cHENRY, ILLINOIS 60050 HONE: 815.385.1778   TOLL FREE: 800.728.7805 X: 815.385.1781   HRGreen.com	FLOOD REDUCTION & WATER ( IMPROVEMENTS – PHASE 1 CITY OF ST. CHARLES, IL ST. CHARLES, IL	QUALITY	SHEETS PLAN & PROFILE - MULTI-US 711+00 TO 713+91	E PATH STA	sheet no. 45



	7th Ave Creek Tr E=991969.860 N=1911640.262 Sta=900+67.94 R=50.00' L=60.492' $\Delta$ =69°19'06.0" C Sta=900+33.37 Sta=900+93.87	rail – 9th Ave Spu Sta.=900+98,60 N=1911675.50 E=991952.280		7
2100	PR REFERENC (© OF PATH)	CE LINE 9	THAVE. 0.00	
$E=992023.852$ $N=1911645.774$ $Sta.=900+19.70$ $R=25.00'$ $L=33.373'$ $\Delta=76^{\circ}29'17.3''$ $Sta.=900+00.00$ $Sta.=900+33.37$	OU HONOR EN OUR CARRIE	Conc de	GGG	G.
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PR GRADE ELEVATION OVER REFERENCE LINE STATIONING ALONG REFERENCE LINE	· · · · · · · · · · · · · · · · · · ·	· · ·		705
50 SHEETS PLAN & PR WALNUT &	901+00 ROFILE – MUL 9TH AVE SPL	901- TI-USE PATI JRS	F@R90BHDDI	NG ONLY SHEET NO. 46

DRAWN BY:         OTK         JOB DATE:         OTOGER 26, 2020         See is call index 40, ind										
DRAWN BY:         CTK         JOB DATE:         D0T09ER 28, 2020         Fact and point								/		
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MATCH LINE - SHEET 48 MATCH LINE - SHEET 47  $\setminus$ PERIMETER -EROS BAR (TYP.)、







## FOR BIDDING ONLY









## FOR BIDDING ONLY

SHEET NO. 49

MATCH	LINE -	SHEET	51
MATCH	LINE -	SHEET	50

MESIC PRAIRIE SEED MIXTURE					
Common Name	Oz./Acre	lbs./Acre			
Side oats grama	37.8				
Copper shouldered sedge	5.2				
Switch grass	20.4				
Little bluestem	128.0				
	191.4	12.0			
Butterfly weed	16.2				
Stiff coreopsis	9.5				
Pale purple coneflower	17.0				
Rattlesnake master	10.6				
Prairie blazing star	10.3				
Wild bergamot	0.4				
Foxglove beard tongue	0.8				
Purple prairie clover	7.1				
Black-eyed Susan	1.0				
Yellow coneflower	2.2				
Sweet black-eyed Susan	1.9				
New England aster	1.5				
Spiderwort	10.8				
	89.2	5.6			
	280.7	17.5			
Canada wild rye	16.0	1.0			
Common oats	240.0	15.0			
	Common Name         Side oats grama         Copper shouldered sedge         Switch grass         Little bluestem         Butterfly weed         Stiff coreopsis         Pale purple coneflower         Rattlesnake master         Prairie blazing star         Wild bergamot         Foxglove beard tongue         Purple prairie clover         Black-eyed Susan         Yellow coneflower         Sweet black-eyed Susan         New England aster         Spiderwort         Canada wild rye         Common oats	Common NameOz./AcreSide oats grama37.8Copper shouldered sedge5.2Switch grass20.4Little bluestem128.0Harrow191.4Butterfly weed16.2Stiff coreopsis9.5Pale purple coneflower17.0Rattlesnake master10.6Prairie blazing star10.3Wild bergamot0.4Foxglove beard tongue0.8Purple prairie clover7.1Black-eyed Susan1.0Yellow coneflower2.2Sweet black-eyed Susan1.9New England aster1.5Spiderwort10.8Bash89.2Canada wild rye16.0Common oats240.0			

Wet-Mesic	Prairie	Seed	Mixture
Wet-Meale		OCCU	WIINLUIC

Scientific name	Common Name	Oz./Acre	lbs./Acre
Grasses & Sedges:			
Carex scoparia	Pointed broom sedge	3.7	
Carex vulpinoidea	Brown fox sedge	2.4	
Leersia oryzoides	Rice cut grass	3.2	
Spartina pectinata	Prairie cord grass	9.6	
Panicum virgatum	Switch grass	33.9	
Total Grasses		52.9	3.3
Forbs:			
Asclepias incarnata	Swamp milkweed	20,1	
Eryngium yuccifolium	Rattlesnake master	15.2	
Helenium autumnale	Sneezeweed	1.1	
Lobelia cardinalis	Cardinal flower	0.5	
Monarda fistulosa	Wild bergamot	0.8	
Oligoneuron riddellii	Riddell's goldenrod	1.6	
Penstomen digitalis	Foxglove beard tongue	1.3	
Physostegia virginiana	Obedient plant	4.9	
Rudbeckia hirta	Black eyed Susan	1.1	
Rudbeckia subtomentosa	Sweet black-eyed Susan	2.7	
Ratibida pinnata	Yellow coneflower	2.4	
Symphyotrichum novae-angliae	New England aster	2.0	
Zizia aurea	Golden Alexanders	7.6	
Total Forbs		61.4	3.8
Total Grasses, Sedges, & Forbs		114.2	7.1
Temporary Cover Crop:			
Elymus virginicus	Virginia wild rye	16.0	1.0
Elymus canadensis	Canada wild rye	16.0	1.0
Avena sativa	Common oats	240.0	15.0

 DRAWN BY:
 CTK
 JOB DATE:
 OCTOBER 28, 2020
 BAR IS ONE INCH ON OFFICIAL DRAWINGS.

 APPROVED:
 DVM
 JOB NUMBER:
 170818
 0
 1"

 CAD DATE:
 10/27/2020
 8:01:06 PM
 170818
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 1"

 CAD FILE:
 J:\2017\170818\CAD\Dwgs\C\50-52 RESTORATION PLANS.dwg
 IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.
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	TY MAP				
RESTORATIONLEGEND:INDICATESINDICATESEASURE(SEESTOREROSIONEGEND)					
	INDICATES AREA TO BE SEEDED (CLASS 1B – MAINTENANCE TURF SEED)				
$(\mathbf{PS}) \begin{bmatrix} x & x & x & x & x & x \\ x & x & x & x &$	INDICATES AREA TO BE SEEDED (MESIC PRAIRIE MIX)				
PS [////////////////////////////////////	INDICATES AREA TO BE SEEDED (WET MESIC PRAIRIE MIX)				
	INDICATES AREA TO BE EROSION CONTROL BLANKETED (SEE TYPICAL SECTIONS FOR ADDITIONAL INFORMATION) NOTE: ALL DISTURBED AREAS THAT DO NOT INDICATE TO USE EROSION CONTROL BLANKET, SHALL BE STRAW MULCH, METHOD 2				
	INDICATES PROPOSED RIPRAP AREA CL-A6 (SEE DETAILS)				
	INDICATES CROSS VANE WEIR (SEE DETAILS)				
	INDICATES EXISTING TREES				
業	TO BE PLANTED – SWAMP WHITE OAK TREE (QUERCUS BICOLOR)				
	INDICATES PROPOSED TREE TO BE PLANTED – SYCAMORE TREE (PLATANUS OCCIDENTALIS)				
$\Diamond$	INDICATES PROPOSED TREE TO BE PLANTED – RED OAK TREE (QUERCUS RUBRA)				
	INDICATES PROPOSED TREE TO BE PLANTED – BLACK WALNUT TREE (JUGLANS NIGRA)				
$\odot$	INDICATES PROPOSED TREE TO BE PLANTED – CRIMSON SPIRE OAK TREE (QUERCUS ROBUR)				
*	INDICATES PROPOSED TREE TO BE PLANTED – EMERALD GREEN ARBORVITAE TREE (THUJA OCCIDENTALIS) NOTE: MIN. 6 FOOT TALL				

### PROJECT NOTES:

- 1. SEE SHEET 75 FOR EROSION CONTROL GENERAL NOTES AND SPECIFICATIONS
- 2. SEE SHEET 75 FOR PHASING NOTES (SEQUENCE
- OF MAJOR ACTIVITIES)
- 3. SEE SHEET 11 13 FOR TYPICAL SECTIONS
- 4. SEE SHEET 77 80 FOR EROSION CONTROL DETAILS

### FOR BIDDING ONLY

SHEETS RESTORATION PLAN - CENTRAL AREA





xgt-1-dh01; 170818-xv-survey; 170818-xc-drainage; 170818-xc-utilities; xc-1-dsgn; xc-1-row; xl-dsgn; 170818-xc-re

![](_page_53_Figure_0.jpeg)

![](_page_54_Figure_0.jpeg)

![](_page_54_Figure_1.jpeg)

![](_page_54_Figure_2.jpeg)

![](_page_54_Picture_3.jpeg)

## FOR BIDDING ONLY

SHEETS			
RESTORATION 10TH AVE	PLAN	_	ROADWAYS

## SHEET NO.

55

![](_page_55_Figure_0.jpeg)

## GENERAL NOTES

ITEM	UNIT	TOTAL
Name Plates	Each	1
Box Culvert End Sections, Culvert No. 1	Each	2
Precast Concrete Box Culverts, 12x6	Foot	176
Porous Granular Embankment	Cu Yd	109
Membrane Waterproofing System	Sq Yd	306

![](_page_56_Figure_0.jpeg)

	0111	TOTAL
Name Plates	Each	1
Box Culvert End Sections, Culvert No. 2	Each	2
Precast Concrete Box Culverts, 12x6	Foot	274.5
Porous Granular Embankment	Cu Yd	167
Membrane Waterproofing System	Sq Yd	472

![](_page_57_Figure_0.jpeg)

-dh01; 170818-xc-drainage; 170818-xc-utilities; 170818-xv-survey; xs-Culvert Plan; xc-1-algn; xs-Culvert D

GENERAL NOTES	hav and	ort costie
m to the requirements of ASTM C 1577.	υυχ CUIVE	ert sections
s shall be provided on exterior culvert walls for e	each prec	ast box
h a clear rise greater than 3 ft. The drain hole sh f the clear rise of the box culvert shall not interc	all be loc cent the l	cated haunch
nform to the requirements of Article 503.11 of the	Standar	d
, geotextile fabric shall conform to the requirement;	s of Art.	1080.01
ard Specifications. The minimum weight of the fab	ric shall	be 6
If be backfilled with Porous Granular Embankment	below	ena
ne box culvert extending to a vertical plane 2 ft fr	om the e	xterior
culvert, 2 ft from the back face of the end section of the face of ombankment	ons, and r	not
2 rt from the race of embankment.		
Pay limits for Membrane Waterproofing	g	
Geocomposite Wall Drain		
	!! <u> </u>	
Geocomposite Membrane	Waterpro	ofing
wall drain for Buried	Structur –	es
DUUDIE DUX CUIVEILS	I	
STATION		
BUILI 2020 BY		
FART SEC		
LOADING HL-93		
STR. NO.		
NAME PLATE		
See Std. 515001		
DESIGN SPECIFICATION	S	
2018 AASHTO LRFD Bridge Design Speci	<u> </u>	
8th Edition with interims		
LOADING HL-93		
DESIGN STRESSES		
PRECAST UNITS		
f'c = 5000  psi	Poinforco	ment)
f'c = 5,000  psi $fy = 65,000  psi  (Welded Wire F)$ $FIFID  UNITS$		
f'c = 5,000  psi $fy = 65,000  psi  (Welded Wire F)$ $FIELD  UNITS$ $f'c = 3.500  psi$		
f'c = 5,000  psi $fy = 65,000  psi  (Welded Wire Field Units)$ $f'c = 3,500  psi$ $fy = 65,000  psi  (Welded Wire Field Wir$	Reinforce	ment)
$f'c = 5,000 \text{ psi}$ $fy = 65,000 \text{ psi} \text{ (Welded Wire F})$ $\frac{FIELD \text{ UNITS}}{f'c = 3,500 \text{ psi}}$ $fy = 65,000 \text{ psi} \text{ (Welded Wire F})$ $TOTAL PLUL OF MAT$	Reinforce	ment)
$f'c = 5,000 \text{ psi}$ $fy = 65,000 \text{ psi} \text{ (Welded Wire F})$ $\frac{FIELD \text{ UNITS}}{f'c = 3,500 \text{ psi}}$ $fy = 65,000 \text{ psi} \text{ (Welded Wire F})$ $\frac{TOTAL \text{ BILL OF MAT}}{TOTAL \text{ BILL OF MAT}}$	Reinforce ERIAL	ment)
f'c = 5,000  psi $fy = 65,000  psi  (Welded Wire F)$ $f'c = 3,500  psi$ $fy = 65,000  psi  (Welded Wire F)$ $TOTAL BILL OF MAT$ $ITEM$	Reinforcer ERIAL	ment) TOTAL
f'c = 5,000  psi $fy = 65,000  psi  (Welded Wire Formula)$ $f'c = 3,500  psi$ $fy = 65,000  psi  (Welded Wire Formula)$ $TOTAL BILL OF MAT$ $ITEM$ Name Plates Box Culvert End Sections Culvert No. 3	Reinforcei ERIAL UNIT Each Fach	ment) TOTAL 1 4
f'c = 5,000 psi fy = 65,000 psi (Welded Wire F <u>FIELD UNITS</u> f'c = 3,500 psi fy = 65,000 psi (Welded Wire F <u>TOTAL BILL OF MAT</u> <u>ITEM</u> Name Plates Box Culvert End Sections, Culvert No. 3 Precast Concrete Box Culverts, 12x6	Reinforcei ERIAL UNIT Each Each Foot	ment) TOTAL 1 4 126
f'c = 5,000 psi fy = 65,000 psi (Welded Wire F <u>FIELD UNITS</u> f'c = 3,500 psi fy = 65,000 psi (Welded Wire F <u>TOTAL BILL OF MAT</u> <u>ITEM</u> Name Plates Box Culvert End Sections, Culvert No. 3 Precast Concrete Box Culverts, 12x6 Porous Granular Embankment	Reinforcer ERIAL UNIT Each Each Foot Cu Yd	ment) TOTAL 1 4 126 84

SHEETS GENERAL PLAN AND ELEVATION CULVERT 3 SOUTH AVENUE

## 

![](_page_58_Figure_0.jpeg)

![](_page_58_Figure_3.jpeg)

price per each for Box Culvert End Sections.

The details contained herein are for general information purposes only. The Contractor shall furnish the end sections using precast construction methods. The end sections may consist of multiple precast concrete segments. The Contractor shall be responsible for determining all details associated with the precast end sections including any strengthening or stiffening provisions necessary for handling the precast segments. Conceptual details followed by shop drawings and design calculations sealed by an Illinois Licensed Structural Engineer shall be submitted to the Engineer for review and approval. The precast design shall at a minimum result in the same wingwall geometry and not have a thickness less than that detailed herein. The Contractor's unit price bid shall be for the precast construction methods including all labor and material noted in the Special Provision for Box Culvert End Sections.

Shop drawings that detail slab thickness and reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than  $\frac{1}{2}$ " nor more than 2". Shop drawings shall include any mechanical connections for culvert ties between precast segments of the box culvert and box culvert end section. No overlap of measured limits for Box Culvert End Sections and Precast Concrete Box Culvert are permitted. Contractor shall confirm final length of Precast Concrete Box Culvert accounts for final limits of Box Culvert End Section provided by supplier.

The contractor may use reinforcement bars in lieu of welded wire reinforcement (WWR). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in an area of reinforcement equal to or greater than that provided by the WWR. Minimum lap lengths detailed herein are applicable to WWR and reinforcement bars.

One drain hole shall be provided in each wingwall for end sections of box culverts having an opening with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard

### APRON END SECTION DIMENSIONS

							Double	Cell	Culvert Location
Span (S)	Rise (R)	Tt, Tb, & Ts	A	В	С	D	E	Concrete Cu. Yd.	
12'-0''	6'-0''	12"	7'-9"	4'-5"	7' <i>-3⁵/₈''</i>	10'-4''	43'-9 ⁵ / ₈ ''	19.8	Illinois Ave & Indiana Ave

SHEETS

### GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit

Box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements for ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

### FOR BIDDING ONLY

CULVERT DETAILS - ILLINOIS & INDIANA AVE

![](_page_59_Figure_0.jpeg)

### TOEWALL CONSTRUCTION SEQUENCE

- with Section 584 of the Standard Specifications.
- 5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.
- * The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the
- ** If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of

FOR BIDI	DING ONLY
SHEETS CULVERT DETAILS – ILLINOIS & INDIANA AVE	SHEET NO.

![](_page_60_Figure_0.jpeg)

1433	ILLINOIS DESIGN FIRM # 184.001322 420 N. FRONT STREET, SUITE 100 McHENRY, ILLINOIS 60050	FLOOD REDUCTION & WATER QUALITY IMPROVEMENTS - PHASE 1
HRGreen	PHONE: 815.385.1778   TOLL FREE: 800.728.7805 FAX: 815.385.1781   HRGreen.com	CITY OF ST. CHARLES, IL ST. CHARLES, IL

## GENERAL NOTES

![](_page_61_Figure_0.jpeg)

ILLINOIS DESIGN FIRM # 184.001322	FLOOD REDUCTION & WATER QUALITY
420 N. FRONT STREET, SUITE 100	IMPROVEMENTS - PHASE 1
MCHENRY, ILLINOIS 60050	CITY OF ST CHARLES II
HRGraan PHONE: 815.385.1778   TOLL FREE: 800.728.7805	
FAX: 815.385.1781   HRGreen.com	SI. CHARLES, IL

As1mREINFORCEMENT (in.²/ ft)		
Rise (ft) Ts (in.)	6	
4		
5		
6		
7		
8	0.34	
9	0.37	
10	0.41	
11	0.44	
12	0.48	

![](_page_62_Figure_0.jpeg)

## PIPE-GRATE SCHEDULE FOR BOX CULVERT END SECTIONS

Precast Box		1:3.5			
			Main Pipe	Int. Support	Total Length
<b>S</b> (ft)	R (ft)	Tt (in)	No. / Length	No. / Length	of Pipe
12	6	12	4 @ 26'-1"	3 @ 11'-7"	139'-8''

Quantity above is for one traversable pipe grate location. Four locations required.

or plate shall be  $1^{1}/_{2}^{"}$  unless noted otherwise. with roadway.

The Contractor may install the thru bolts using drilling and grouting in lieu of providing a formed hole using steel pipe. Installation shall be in accordance with Article 509.06 using a method that results in the annulus surrounding the bolt being completed filled with adhesive. The method of drilling shall not result in spalled concrete at the exit face. Epoxy grouted thru bolts shall be snug tightened followed by an additional  $\frac{1}{3}$  turn on the interior nut at final installation. Cost included with Traversable Pipe Grate.

![](_page_62_Figure_8.jpeg)

![](_page_62_Picture_11.jpeg)

HRGroon

420 N. FRONT STREET, SUITE 100 McHENRY, ILLINOIS 60050	
PHONE: 815.385.1778   TOLL FREE: 800.728.7805	
FAX: 815 385 1781   HRGreen.com	

### GENERAL NOTES

The minimum edge distance from the center of a hole to the free edge of a structural shape

This standard shall only be used on concrete end sections not skewed more than  $\pm 15$  degrees

![](_page_63_Figure_0.jpeg)

ITEM	UNIT	QUANTITY
PEDESTRIAN TRUSS BRIDGE	LSUM	1

SHEET NO.

64

![](_page_64_Figure_0.jpeg)

![](_page_64_Figure_3.jpeg)

![](_page_64_Figure_4.jpeg)

![](_page_64_Figure_5.jpeg)

BAR s(E)

![](_page_64_Figure_7.jpeg)

### SECTION A-A THRU ABUTMENT

FLOOD REDUCTION & WATER QUALITY CITY OF ST. CHARLES, IL ST. CHARLES, IL

![](_page_64_Figure_12.jpeg)

- PORTION TO BE POURED WITH 6" CONCRETE APPROACH SLAB

SHEETS

### ABUTMENT BILL OF BARS

NOTE: QUANTITIES INCLUDE BOTH ABUTMENTS

BAR	NO.	SIZE	LENGTH	SHAPE
p (E)	10	#5	10'- 8''	
p1 (E)	10	#5	14'- 8''	
s (E)	24	#4	8'- 5''	
t (E)	8	#4	10'- 6''	
v (E)	24	#4	3'- 7"	
v1 (E)	24	#4	5'- 5"	
v2 (E)	12	#4	3'- 1"	
w (E)	24	#5	2'- 6"	
STRUCT	JRE EXC	AVATION	CU. YD.	31.1
CONCRETE STRUCTURES			CU. YD.	12.0
REINFORCEMENT BARS, EPOXY COATED			POUND	600
CONCRETE SEALER			SQ. FT.	62
POROUS GRANULAR BACKFILL			CU. YD.	18

- ALL LISTED QUANTITIES ABOVE SHALL BE INCLUDED IN THE LUMP SUM UNIT PRICE FOR PEDESTRIAN TRUSS BRIDGE.

- CONCRETE STRUCTURES QUANTITY INCLUDES CONCRETE APPROACH SLAB & SLEEPER.

- REQUIRED SOIL BEARING CAPACITY FOR THE ABUTMENT FOOTING = 2,500 PSF. CONTRACTOR SHALL HAVE A GEOTECHNICAL ENGINEER FIELD VERIFY ADEQUACY OF SOILS FOR THE PROPOSED FOUNDATION.

* VERIFY DIMENSIONS WITH THE SUPPLIER OF THE PEDESTRIAN TRUSS SUPERSTRUCTURE

# FOR BIDDING ONLY SHEET NO. 65

PEDESTRIAN BRIDGE DETAILS

![](_page_65_Figure_0.jpeg)

![](_page_66_Figure_0.jpeg)

![](_page_66_Figure_2.jpeg)

![](_page_66_Figure_4.jpeg)

<u> </u>	ITEM	UNIT	TOTAL	FLEVATION - RETAININ
_	Segmental Concrete Block Retaining Wall #3	Sq. Ft.	88	SOUTH WALL LOOKING N
	Segmental Concrete Block Retaining Wall #4	Sq. Ft.	80	

![](_page_66_Figure_8.jpeg)

![](_page_67_Figure_0.jpeg)

![](_page_67_Figure_2.jpeg)

ITEM	UNIT	TOTAL
egmental Concrete Block Retaining Wall #1	Sq. Ft.	157
egmental Concrete Block Retaining Wall #2	Sq. Ft.	217

Excavation required for installation of Segmental Concrete Block Wall shall be done in accordance with the applicable portions of Section 502 of the Standard Specifications and will be included in SEGMENTAL CONCRETE

![](_page_67_Figure_6.jpeg)

	ILLINOIS DESIGN FIRM # 184.001322 420 N. FRONT STREET, SUITE 100 McHENRY, ILLINOIS 60050	FLOOD REDUCTION & WATER QUALITY IMPROVEMENTS – PHASE 1
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The color of the wall shall be approved by the Owner's Representative.

### ELEVATION – RETAINING WALL #1 AT INDIANA AVE.

LOOKING EAST

SOUTH WALL

![](_page_68_Figure_0.jpeg)

Segmental	С

BLOCK RETAINING WALL.

	UNIT	TOTAL
oncrete Block Retaining Wall #6	Sq. Ft.	144

Excavation required for installation of Segmental Concrete Block Wall shall be done in accordance with the applicable portions of Section 502 of the Standard Specifications and will be included in SEGMENTAL CONCRETE

The color of the wall shall be approved by the Owner's Representative.

FOR	BIDDING	ONLY
FUR	BIDDING	UNLI

SHEET NO.

69

SHEETS				
GENERAL		AND	ELEVATI	ON
	SE PAIL	H KE	IAINING	WALL

![](_page_69_Figure_0.jpeg)

![](_page_69_Figure_1.jpeg)

_									
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![](_page_69_Figure_4.jpeg)

SHEET NO.

70

ONLY

BIDDING

FOR

![](_page_70_Figure_0.jpeg)

![](_page_70_Figure_1.jpeg)

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xgt-1-dh

109+86

		PROP. DUAL 12'	X6' BOX CULVERTS		
				PROPOSED GRADE	
D CULVERT END SECTION					
		TOP OF WALL			
	EMBEDMENT				
		EMBED			
F/L	ELEV. = 709.90		F/L ELEV. = 709.	90	
STRU	JCT. INV. = 708.90		STRUCT. INV. = 708.	90	
-20		0	20		
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		VINSTREAM SECTION	=		
	SCALE: N.I.S.				
	ILLINOIS DESIGN FIRM # 184.001322	FLOOD	REDUCTION & WATE	R QUALITY	
	420 N. FRONT STREET, SUITE 100 McHENRY, ILLINOIS 60050		MENTS - PHASE	1	
HRGreen	PHONE: 815.385.1778   TOLL FREE: 800.728.	7805	SI. UHARLES, IL _ES. IL		
	IAA. 013.303.1701   HRGreen.com		· · -		

ΤΥΡΙΛΑΙ	DETAILS

			720
	EXIST. GROUND		718
			716
			714
			712
	F	PROPOSED SANITARY SEWER-	710
			708
			706
			704
4	0	6	0

![](_page_70_Figure_9.jpeg)

	PROPOSED	SANITARY SEWER	•	710
			<b>J</b>	, , , ,
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				707
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				720
				720
	EXIST. GROUND			718
				/ 10
				716
				710

				724
				/ 2 -
				700
				122
				700
		EXIST. GROUND		/20
1-				
				718
				716
				711
				/   4
				712
	PROPOSED	SANITARY SEWER		740
			$\overline{0}$	/10
			<b>–</b>	
				708
				-
1	$\cap$	1	60	/0/

![](_page_71_Figure_0.jpeg)

![](_page_71_Figure_1.jpeg)

-									
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ž I						-			

![](_page_71_Figure_4.jpeg)

SHEET NO. 72

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			710	
			/ 1 2	
			710	
			/10	
			700	
			/08	
			707	
4	0	6	0	

		724
		722
	EXIST. GROUND	 720
/		718
		716
		714
		712
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		708

ONLY BIDDING FOR
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7TH AVENUE CREEK 1 SOUTH AVE.: CULVERT SUMP SCALE: N.T.S.



ILLINOIS DESIGN FIRM # 184.001322 420 N. FRONT STREET, SUITE 100 McHENRY, ILLINOIS 60050 HRGreen PHONE: 815.385.1778 | TOLL FREE: 800.728.7805 FAX: 815.385.1781 | HRGreen.com

~ ~ ~		
		FOR BIDDING ONLY
	SHEETS South ave. – Culvert Sump	SHEET NO. 73

- PROPOSED BOX CULVERT END SECTION



-									
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CONTROL MEASURE GROUP	CONTROL MEASURE	KEY	APPL.	CONTROL MEASURE CHARACTERISTICS	TEMP.
	TEMPORARY SEEDING	TS	X	PROVIDES QUICK TEMPORARY COVER TO CONTROL EROSION WHEN PERMANENT SEEDING IS NOT DESIRED OR TIME OF YEAR IS INAPPROPRIATE.	x
	PERMANENT SEEDING	PS	x	PROVIDES PERMANENT VEGETATIVE COVER TO CONTROL EROSION, FILTERS SEDIMENT FROM WATER. MAY BE PART OF FINAL LANDSCAPE PLAN.	
VEGETATIVE	DORMANT SEEDING	OS	X	SAME AS PERMANENT SEEDING EXCEPT IS DONE DURING DORMANT SEASON. HIGHER RATES OF SEED APPLICATION ARE REQUIRED.	X
SOIL COVER	SODDING	<b>SO</b>	x	QUICK PERMANENT COVER TO CONTROL EROSION. QUICK WAY TO ESTABLISH VEGETATION FILTER STRIP. CAN BE USED ON STEEP SLOPES OR IN DRAINAGEWAYS WHERE SEEDING MAY BE DIFFICULT.	
	GROUND COVER	6	x	PROVIDES GROUND COVER, SHRUBS AND TREES IN ADDITION TO PERMANENT VEGETATION. MAY BE USED AS PART OF A FINAL LANDSCAPE PLAN ALONG WITH SHRUBS AND TREES.	
	RAIN GARDEN	RG		PROVIDES A TYPE OF FUNCTIONAL LANDSCAPING FEATURE DESIGNED TO CONTROL STORMWATER RUNOFF. SEE LANDSCAPING PLANS FOR DETAILS	
	MULCHING		x	ADDED INSURANCE OF A SUCCESSFUL TEMPORARY OR PERMANENT SEEDING. CONTROLS UNWANTED VEGETATION AND PRESERVES MOISTURE. PROVIDES COVER WHERE VEGETATION CANNOT BE ESTABLISHED.	x
NON VECETATIVE	AGGREGATE COVER	AG		PROVIDES SOIL COVER ON ROADS AND PARKING LOTS AND AREAS WHERE VEGETATION CANNOT BE ESTABLISHED. PREVENTS MUD FROM BEING PICKED UP AND TRANSPORTED OFF—SITE.	
SOIL COVER	PAVING	$\bigcirc$	x	PROVIDES PERMANENT COVER ON PARKING LOTS AND ROADS OR OTHER AREAS WHERE VEGETATION CANNOT BE ESTABLISHED.	
	EROSION BLANKET	B	x	PROVIDES QUICK TEMPORARY COVER TO CONTROL EROSION WHEN PERMANENT SEEDING TIME OF YEAR IS INAPPROPRIATE AND IN SLOPED AREAS.	X
	RIDGE DIVERSION	RD		TYPICALLY USED ABOVE SLOPES. USED WHERE AN EXCESS OF SOIL IS AVAILABLE.	
	CHANNEL DIVERSION			TYPICALLY USED AT TOP OR BASE OF SLOPES. USED WHEN EXCESS SOIL IS NOT AVAILABLE.	
DIVERSIONS	COMBINATION DIVERSION			TYPICALLY USED ANYWHERE ONA SLOPE. SOIL TAKEN OUT OF CHANNEL IS USED TO BUILD THE RIDGE.	
	CURB AND GUTTER	$\odot$	x	SPECIAL CASE OF DIVERSION USED IN CONJUNCTION WITH A STREET TO DIVERT WATER FROM AN AREA NEEDING PROTECTION.	
	BENCHES	B		SPECIAL CASE OF DIVERSION CONSTRUCTED WHEN WORKING ON CUT SLOPES TO SHORTEN LENGTH OF SLOPE AND ADD SLOPE STABILITY.	
	BARE CHANNEL	BC	x	PROVIDES MEANS OF CONVEYING RUNOFF TO DESIRED LOCATION. MAY BE USED TO DRAIN DEPRESSIONAL AREAS. ONLY APPLICABLE WHEN VELOCITY OF FLOW IS VERY LOW.	
WATERWAYS	VEGETATIVE CHANNEL	$\bigcirc$	x	PROVIDED ADDED STABILITY TO CHANNEL. USED WHEN VELOCITY OF FLOW IS NOT EXTREMELY FAST.	
	LINED CHANNEL		x	USED WHEN VEGETATION WILL NOT PROTECT THE CHANNEL AGAINST HIGH VELOCITIES OF FLOW OR WHERE VEGETATION CANNOT BE ESTABLISHED.	
	DITCH CHECKS	00	X	PROVIDES AN ENERGY DISSIPATOR ALONG A LENGTHY CHANNEL TO REDUCE VELOCITY OF STORMWATER	x
	STORM SEWER	ST	x	CAN BE USED TO CONVEY SEDIMENT LADEN WATER TO SEDIMENT BASIN OR IN CONJUNCTION WITH A WATERWAY.	
ENCLOSED DRAINAGE	UNDERDRAIN	6		USED TO LOWER WATER TABLE AND INTERCEPT GROUNDWATER FOR BETTER VEGETATION GROWTH AND SLOPE STABILITY. USED TO CARRY BASE FLOW IN WATERWAYS AND TO DEWATER SEDIMENT BASINS.	
	STRAIGHT PIPE SPILLWAY	SS		USED FOR RELATIVELY SMALL VERTICAL DROPS AND SMALL FLOWS OF WATER	
SDILL WAYS	DROP INLET PIPE SPILLWAY	015		SAME AS PIPE SPILLWAY EXCEPT LARGER FLOWS AND LARGE VERTICAL DROPS CAN BE ACCOMMODATED.	
SFILLIAIS	WEIR SPILLWAY	$( \mathbf{W} )$		USED FOR RELATIVELY SMALL VERTICAL DROPS AND FLOWS MUCH GREATER THAN PIPE STRUCTURES.	
	BOX INLET WEIR SPILLWAY	BS		SAME AS WEIR SPILLWAY EXCEPT LARGER FLOWS CAN BE ACCOMMODATED BECAUSE OF LOWER WEIR LENGTH.	
OUTLETS	LINED APRON			PROTECTS DOWNSTREAM CHANNEL FROM HIGH VELOCITY OF FLOW DISCHARGING FROM STRUCTURES.	
0012210	STONE RIP RAP	RR	x	USED AS AN ENERGY DISSAPATOR AT OUTLET STRUCTURES TO REDUCE VELOCITIES	
	EMBANKMENT SEDIMENT BASIN	ES		USED WHERE TOPOGRAPHY LENDS ITSELF TO CONSTRUCTING A DAM AND EARTH FILL IS AVAILABLE.	
SEDIMENT BASINS	EXCAVATED SEDIMENT BASIN	XS		USED WHERE EMBANKMENT COULD CAUSE A HAZARD DOWNSTREAM IN CASE OF FAILURE AND WHEN EXCESS EARTH FILL IS NOT AVAILABLE.	
	COMBINATION SEDIMENT BASIN	SB	x	USED WHEN TOPOGRAPHY IS SUITABLE BUT ADDITIONAL CAPACITY IS NEEDED.	
SEDIMENT	BARRIER FILTER (SILT FENCE)	₿F	x	A TEMPORARY BARRIER OF ENTRENCHED GEOTEXTILE FABRIC (FILTER FABRIC) STRETCHED ACROSS AND ATTACHED TO SUPPORTING POSTS USED TO INTERCEPT SEDIMENT LADEN RUNOFF FROM SMALL DRAINAGE AREAS OF DISTURBED SOIL.	X
FILTERS	VEGETATIVE FILTER	(VF)		USED ALONG DRAINAGEWAYS OR PROPERTY LINES TO FILTER SEDIMENT FROM RUNOFF. SIZE MUST BE INCREASED IN PROPORTION TO DRAINAGE AREA.	
	INLET PROTECTION		X	USED FOR FILTERING SEDIMENT WITHIN GRASS AREAS BEFORE WATER ENTERS THE STORM SEWER	X
	FILTER BASKET	FB	X	USED FOR FILTERING SEDIMENT WITHIN THE ROADWAY BEFORE ENTERING THE STORM SEWER	x
MUD AND	STABILIZED CONST. ENTRANCE	SE	x	A STABILIZED PAD OF AGGREGATE UNDERLAIN WITH FILTER FABRIC LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC RIGHT-OF-WAY, STREET, ALLEY, SIDEWALK, OR PARKING AREA TO PREVENT MUD FROM BEING PICKED UP AND CARRIED OFF-SITE.	x
DUST	CONSTRUCTION ROAD STABILIZATION	(R)		THE STABILIZATION OF TEMPORARY CONSTRUCTION ACCESS ROUTES, SUBDIVISION ROADS, ON-SITE VEHICLE TRANSPORTATION ROUTES, AND CONSTRUCTION PARKING AREAS WITH STONE IMMEDIATELY AFTER GRADING TO PREVENT MUD FROM BEING PICKED UP AND CARRIED OFF-SITE.	
CONTROL	DUST AND TRAFFIC CONTROL	10	<i>x</i>	CONTROL OF DUST BLOWING AND MOVEMENT ON CONSTRUCTION SITES AND ROADS	X
MISC	EXPLORATORY TRENCH	E	X	EXPLORATORY TRENCH EXCAVATION FOR EXISTING UTILITIES	X
	CONCRETE WASHOUT	(wo)		PREVENTS THE DISCHARGE OF POLLUTANTS TO STORMWATER FROM CONCRETE WASTE IN A DESIGNATED WASHOUT APEA (CONCRETE WASHOUT PUR)	



X

# 

- * No land disturbing received by governi begin until all perir (Including storm wa
- * The general contro plan (swppp) durin
- * All topsoil shall b
- * All exposed areas Should construction specified.
- * Sediment and eros (7) days and with period or more fr maintenance requ within 48 hours (
- * This plan shall not necessary precauti
- * General contractor
- * Additional erosion by on site inspect
- * If installation of the pipe ends sha
- * General contractor permanent soil sta
- * All sedimentation St. Charles's requi
- All erosion and set to ensure effective
- All erosion and se standards and pro
- * All construction w construction site storm water perm
- * All roadways shall
- * All disturbed areas
- * All erosion control of the site.
- * Ground cover for ! * All disturbed areas
- otherwise noted * Silt filter fabric sl established. (see
- * Utilize excelsior b *Seeding per I.D.C construction, (late *Class 3 type –
- *Mulch/hydroseed and bridge constru *Mulch/hydroseed
- * No dimensions sho
- No known drain til encountered during
- No part of the pr flood hazard area
- Excess material s owner and approve surrounded with (temporary) if left
- * General contractor or in right—of—way company and loca

- A. A pre-construction Engineer prior to I B. Install perimeter si
- c. Implement erosion sedimentation from D. Construct temporar
- Begin clearing and areas where earthw are planned to cor
   F. Disturbed areas of
- shall be temporari G. Install suggested n H. Commence utility o I. Construct water m
- connections to exis water main.
- J. Install water servic K. Perform shut dowr
- L. Construct sanitary M. Construct proposed sewer.
- N. Install inlet / outle sedimentation from Control plan sheets O. Finalize pavement s P. Construct all curb
- construction. Q. Remove inlet prote
- placing stabilized t . Install base materi
- S. Carry out final gra products where sho T. Remove silt fencing U. Remove temporary
- A schedule for implem identified above is incl

ILLINOIS |+23420 N. McHENRY, HRGreen

420 N. FRONT STREET, SUITE 100 McHENRY, ILLINOIS 60050 PHONE: 815.385.1778   TOLL FREE: 800.728.7805 FAX: 815.385.1781   HRGreen.com	IMPROV CITY OF ST. CHAR	EMENTS – PHASE 1 F ST. CHARLES, IL RLES, IL	SHEETS EROSION	CONTROL SPECS	75			
In the event a notice of violation is issued on this project, any and all be the sole responsibility of the contractor. The owner, owner's represent other owner's agents will not participate in any payment or reimburseme and will not authorize time extensions due to delays in project progress stoppage required to remedy the violations.	Tines will tative, or ent for fines for work	this plan and Standard Specifications. Stabilized construction entrance: The entrance shall be maintained to prevent tracking of public streets. This will be done by top dressing with additional stones, remove and repla stones or washing the entrance. The sediment washed on the public right-of-way will be immediately.	sediment onto ce top layer of removed	IEPA: <u>ILR10</u> PERMIT #				
FAILURE TO COMPLY:	fines will	b. Maintenance. The following is a description of procedures that will be used to maintain, in good and eff conditions, vegetation, erosion and sediment control measures and other protective measur this plan and Standard Specifications.	ective operating res identified in	SITE ADDRESS	B AC			
A schedule for implementation for the activities identified above is included as Form C-3 of the SWPPP.		Specifications for Soil and Erosion and Sediment Control (Latest revision), Illinois Procedur Standards for Urban Soil Erosion and Sedimentation Plan, and the Municipal Subdivision Or- Requirements specified in sediment and erosion control site plans or site permits or storm management or site plans or site permits approved by local officials that are applicable to surface water resources are, upon submittal of an NOI to be authorized to discharge unde incorporated by reference and are enforceable under this permit even if they are not spec in the plan.	res and dinance. water o protecting er this permit, ifically included	SUBLOW IRACION S COMPANY NAME AND ADDRESS				
proaucts where shown on the Erosion Control plan sheets. T. Remove silt fencing only after all paving is complete and exposed surfaces are stabilized. U. Remove temporary construction exits A schedule for implementation for the activities		a. Approved State or Local Plans. The management practices, controls and other provisions contained in this plan are at least as protective as the requirements contained in the Illinois Environmental Protection Agency's Standards and		SUBCONTRACTOR'S COMPANY NAME AND ADDRESS	0			
placing stabilized base course. R. Install base material as required for pavement. S. Carry out final grading and seeding, sodding and planting, including rolled erosion control products where shown on the Erosion Control plan sheets.		The sanitary sewage will be discharged to the proposed sanitary sewer constructed per IEPA ar standards. a. Approved State or Local Plans.	d local	SUBCONTRACTOR'S TITLE				
<ul> <li>O. Finalize pavement subgrade preparation.</li> <li>P. Construct all curb and gutter. Inlet protection may be removed temporarily construction.</li> <li>Q. Remove inlet protection around inlets and manholes no more than 48 hour</li> </ul>	for this rs prior to	(ii) The provisions of this plan shall ensure and demonstrate compliance with applicable s local waste disposal, sanitary sewer or septic system regulations.	State and/or	SUBCONTRACTOR'S NAME AND SIGNATURE				
<ul> <li>N. Install inlet / outlet protection around the constructed storm sewer to prevised imentation from infiltrating into the storm sewer system as shown on the Control plan sheets.</li> </ul>	vent he Erosion	materials, machinery, tools and other items will be collected and disposed off-site by The contractor is responsible to acquire any permit required for such disposal. Burnir will not be permitted. No solid materials, including building materials, shall be discharg of the State, except as authorized by a Section 404 permit.	the contractor. Ig on the site ed into Waters					
J. Install water service connections. K. Perform shut down of existing water main for removal or abandonment. L. Construct sanitary sewer main and sanitary sewer service connections. M. Construct proposed autter inlets, area inlets, storm sewer manholes and pr	roposed storm	3. Other Controls. (i) Waste Disposal. The solid waste materials including trash. construction debris, excess	construction	CONTRACTOR COMPANY NAME AND ADDRESS				
<ul> <li>c. mistai suggested maintenance of traffic measures.</li> <li>H. Commence utility construction installation.</li> <li>I. Construct water main down Bluff City Blvd. Perform Testing, chlorination priconnections to existing water main. Finalize water main installation connect water main.</li> </ul>	ior to main ions to exist.	<ul> <li>Vegetative channels.</li> <li>Outlet protection using Gabion mattress.</li> <li>Inlet protection.</li> </ul>		CONTRACTOR TITLE TELEPH	IONE NUMBER			
<ul> <li>areas more curation will be performed and only in areas where construct are planned to commence within 7 days after clearing and grubbing.</li> <li>F. Disturbed areas of the site where Construction Activity has ceased for more shall be temporarily seeded and watered.</li> <li>G. Install suggested mointenance of traffic measures</li> </ul>	e than 7 days	Stormwater Management Control includes 1 Stone Riprap 2 Filter Fabric		CONTRACTOR'S PRINTED NAME AND SIGNATURE CERTIFI	CATION DATE			
<ul> <li>sedimentation from infiltrating into the storm sewer system as shown on the D. Construct temporary construction exits at locations shown on the Erosion C sheets.</li> <li>E. Begin clearing and grubbing operations. Clearing and grubbing shall be don a shown on the erosion of the store and shown on the erosion of th</li></ul>	he plan sheets. Control plan e only in tion measures	(II) velocity aissipation devices will be placed at discharge locations and along the length channel as necessary to provide a non-erosive velocity flow from the structure to a v that the natural physical and biological characteristics and functions are maintained a (e.g., maintenance of hydrologic conditions, such as the hydroperiod and hydrodynamic to the initiation of construction activities)	or any outfall vater course so nd protected s present prior	site identified as part of this certification.				
<ul> <li>A. A pre-construction meeting shall be held by the Site Project Manager and Engineer prior to land disturbing activities.</li> <li>B. Install perimeter silt fences and inlet protection in the locations shown on sheets.</li> <li>C. Implement erosion control measures around the existing storm sewer to prior.</li> </ul>	the Operator's the plan event	2. Drainage swales       5. Straw bale inlet protection         3. Storm sewers       6. Retention/Detention ponds		I certify under penalty of law that I understand the term conditions of the general National Pollutant Discharge El System (NPDES) permit (ILR10) that authorizes the store	ns and imination m water			
be as follows (refer to the <u>Erosion and Sediment Control Plan Sheet</u> contained for details and refer to the Suggested Phasing Plan in the design drawings for sequencing):	in this SWPPP r construction	in the Specifications. The stormwater pollutant control measures shall include: 1. Silt filter fence 4. Rip-rap outlet protection		CONTRACTOR'S AND SUBCONTRACTOR'S (	CERTIFICATE			
The Contractor will be responsible for implementing the following erosion contro water management control measures. The Contractor may designate these tas subcontractors as he sees fit, but the ultimate responsibility for implementing and ensuring their proper functioning remains with the Contractor. The order	ol and storm sks to certain these controls of activities will	completed. The installation of these devices may be subject to Section 404 of the C The practices selected for implantation were determined on the basis of the technical gu in IEPA's Standard Specifications for Soil Erosion and Sedimentation Control, and other o	lean Water Act. 6. idance contained rdinances listed	<ol> <li>Monitoring and Management Plan A three—year maintenance and monitoring plan is required after installation of See Project Specifications for details.</li> </ol>	native landscaping.			
PHASING NOTES: SEQUENCE OF MAJOR ACTIVITIES - AS APPLICABLE TO PROJECT		c. Stormwater Management. (i) Provided below is a description of measures that will be installed during the construct control pollutants in stormwater discharges that will occur after construction operation	ion process to s have been	Contractor to provide the above non-stormwater discharged control to the star the City or the approved equal.	ndard specification required by			
<ul> <li>General contractor shall notify all utility companies having underground utili or in right—of—way prior to excavation. Contractor shall contact utility location company and locate all utilities prior to grading start.</li> </ul>	ties on site ting	barrier filter fence shall enclose topsoil stockpile location with exception of truck access construction hours.	during	The fire hydrant and water main shall not be flushed directly on the exposed a pavement. Hoses shall be used to direct the flow into the storm sewer system. The erosion due to irriaation of seedina shall be considered minor	rea of sub grade of the n, if available.			
Excess material shall be placed at specified location unless otherwise speci owner and approved by engineer for use of lot grading. Stockpiles shall b surrounded with filter fence and shall be seeded per I.D.O.T. Manual (latest (temporary) if left more than 14 working days.	ified by be addition)	Standards and Specifications for Soil Erosion and Sedimentation Control" as published by Environmental Protection Agency. If a topsoil stockpile location is provided and approved by the County, Contractor shall e control measures for the stockpile if it is to remain in place for more than three days	y the Illinois stablish erosion In addition	d. Irrigation drainage for vegetative growth for seeding, etc The pollution prevention measures, as described below, will be implemented for the discharge:	non-stormwater components of			
<ul> <li>No part of the proposed project is located within a flood hazard 10-100yi flood hazard area</li> </ul>	r area a	All erosion control practices shall be in compliance with the latest revision of the "Stand Specifications for Road and Bridge Construction," by the Illinois Department of Transporte	project. ard ition and with	a. Water main flushing b. Fire hydrant flushing c. Watering for dust control				
<ul> <li>No dimensions shall be assumed by scaling.</li> <li>No known drain tiles are present on the proposed development, if tiles are encountered during construction please notify the engineer immediately.</li> </ul>	•	by the Contractor's responsibility for erosion control shall extend throughout the construction Contractor's hall be responsible for cleanup of payed surfaces within and adjacent to the	n process. The	5. Non-Stormwater Discharges. Except for flows from fire fighting activities, sources of non-stormwater that r stormwater discharges associated with the industrial activity addressed in this	nay be combined with plan, are described below:			
*Mulch/hydroseed per I.D.O.T. Manual, section 251, standard specifications and bridge construction, (latest edition *Mulch/hydroseed method 2, procedure 3	for road	See Sequence of major activities on this sheet. Any siltation of conduits, structures, or ditches shall be cleaned and maintained by the weekly basis, until the seeding has taken hold. All weekly basis, until the seeding has taken hold.	Contractor, on a	Attn: Compliance Assurance Section 2200 Churchill Road Post Office Box 19276 Springfield, Illinois 62794-9276				
<ul> <li>Utilize excelsior blanket on all slopes of 5:1 or greater.</li> <li>*Seeding per I.D.O.T. Manual, section 251,standard specifications for road a construction, (latest edition</li> <li>*Class 3 type - slope mixture</li> </ul>	ind bridge	<ul> <li>b. Inlet protection</li> <li>b. Erosion Control. It shall be the Contractor's responsibility to provide adequate erosion consiste. The following erosion control sequence shall be adhered to:</li> </ul>	ontrol on the job	with Furt vi. G of the general permit. The report of noncompliance shall address: Illinois Environmental Protection Agency Division of Water Pollution Control	be manea to the following			
<ul> <li>Silt filter fabric shall be placed between frame and grate until vegetation is established. (see detail)</li> </ul>	s	<ol> <li>Vegetated drainage swales</li> <li>Permanent seeding</li> <li>Outlet protection</li> <li>Filter fabric</li> <li>Instruction</li> </ol>		shall use forms provided by the Illinois Environmental Protection Agency ar information on the cause of noncompliance, actions which were taken to p noncompliance, and a statement detailing any environmental impact which noncompliance. All reports of noncompliance shall be signed by a response with Part VI G of the general permit. The report of percentioned by a response	na shall include specific prevent any further causes of n may have resulted from the sible authority in accordance be mailed to the following			
<ul> <li>* Ground cover for 5:1 slopes or greater shall be established as soon as portain to the state of the state of</li></ul>	ossible. ng unless	limit runoff and the discharge of pollutants from exposed areas of the site. The inst devices may be subject to Section 404 of the Clean Water Act. 1. Storm sewer system	allation of these	d. If any violation of the provisions of this plan is identified during the conductovered by this plan, the Resident Engineer or Resident Technician shall conduct of Noncompliance" (ION) report for the identified violation. The Resident Englished to the term of the identified violation.	ict of the construction work omplete and file an "Incidence Engineer or Resident Technician we abalt is always			
<ul> <li>* All erosion control measures shall be disposed of within 30 days of final s of the site.</li> </ul>	stabilization	3 Erosion Blanket 6 Outlet protection 9 Dust & Traffic Control (ii)STRUCTURAL PRACTICES. Provided below is a description of structural practices that implemented, to the degree attainable, to divert flows from exposed soils, store flows	will be or otherwise	inspection, the date(s) of the inspection, major observations relating to th stormwater pollution prevention plan and actions taken in accordance with and retained as part of the plan for at least three (3) years after the da report shall be signed in accordance with Part VI.G of the general permit.	e implementation of this section 4.b. shall be made ite of the inspection. The			
<ul> <li>* All roadways shall be cleaned at the end of each construction day.</li> <li>* All disturbed areas shall be stabilized within 7 days of active disturbance</li> </ul>		stabilize the disturbed area of the site: 1 Temporary Seeding 4 Barrier filter 7 Vegetative filter 2 Permanent seeding 5 Inlet protection 8 Stabilized construction e	entrance	<ul> <li>c. A report summarizing the scope of the inspection, name(s) and qualification inspection, the date(s) of the inspection, mains statuting the scope of the inspection.</li> </ul>	ection. ons of personnel making the			
<ul> <li>All construction will adhere to the requirements set forth in the iepa's new construction site activities national pollutant discharge elimination system (r storm water permit.</li> </ul>	npdes)	temporarily or permanently ceases is precluded by snow cover, stabilization measu initiated as soon as practicable thereafter. The following interim and permanent stabilization practices, as a minimum will be imple	ures shall be emented to	<ul> <li>b. Based on the results of the inspection, the description of potential polluta</li> <li>1 above and pollution prevention measures identified in section 2 above sh as soon as practicable after such inspection. Any changes to this plan re</li> </ul>	nt sources identified in section all be revised as appropriate esulting from the required			
<ul> <li>* All erosion and sediment control work shall conform to the I.D.O.T. Manual standards and procedures for erosion control.</li> </ul>	for,	ceased, but in no case more than 7 days after the construction activity in that portion where construction activity will not occur for a period of 21 or more calendar days. (A) Where the initiation of stabilization measures by the 14th day after construction	ons of the site activity	seament control measures laentified in the plan shall be observed to ensu correctly. Where discharge locations or points are accessible, they shall b whether erosion control measures are effective in preventing significant im Locations where vehicles enter or exit the site shall be inspected for evide tracking	ne max mey are operating e inspected to ascertain pacts to receiving waters. ence of off-site sediment			
<ul> <li>* All sedimentation and erosion control regulations shall be adhered to per t St. Charles's requirements</li> <li>* All erosion and sediment control practices shall be maintained and repaired</li> </ul>	he City of d as needed	practices, including site-specific scheduling of the implementation of the practices. ensure that existing vegetation is preserved where attainable and disturbed portions of stabilized. Except as provided in 2.a. (i) (A) and 2.b. stabilization measures shall be in as practicable in portions of the site where construction activities have temporarily or	Site plans will the site will be nitiated as soon permanently	a. Disturbed areas and areas used for storage of materials that are exposed inspected for evidence of, or the potential for, pollutants entering the drai sediment control measures identified in the algorithm of the storage of the sediment control measures identified in the algorithm.	to precipitation shall be nage system. Erosion and the they are constituted			
<ul> <li>General contractor shall be responsible to take whatever means necessary permanent soil stabilization.</li> </ul>	to establish	a. Erosion and Sediment Controls. (i) STABILIZATION PRACTICES. Provided below is a description of interim and permanent s	stabilization	The Owner, or Owner's representative shall provide qualified personnel to inspect construction site which have not been finally stabilized, structural control meas vehicles enter or exit the site. Such inspections shall be conducted at least daw within 24 hours of the end of a storm that is 0.5 instants and the set of a storm that is 0.5 instants.	disturbed areas of the ures and location where once every seven (7) calendar			
<ul> <li>by on site inspection.</li> <li>* If installation of storm drainage system should be interrupted by weather of the pipe ends shall be covered with filter fabric.</li> </ul>	pr nightfall,	This section of the plan addresses the various controls that will be implemented for each of construction activities described in 1.b above. For each measure discussed, the contractors responsible for its implementation as indicated. Each such contractor has signed the require forms which are attached to, and are a part of, this plan.	the major will be d certification on 4.	filter fence, or equivalent, shall be installed immediately on the down slope	of the piles.			
<ul> <li>General contractor shall comply with all state and local ordinances that ap</li> <li>Additional erosion and sediment control measures will be installed if deeme</li> </ul>	ply. ed necessary	5.1± acres. 2. Controls.	4h	combination with seeding or equivalent. Soil storage piles containing more than 10 cu. yds. of material shall not be drainage length less than 25 feet to a roadway or drainage channel. Filter	located with a downslope barriers, including straw bales.			
<ul> <li>within 48 hours of report.</li> <li>* This plan shall not be considered all inclusive as the general contractor sh necessary precautions to prevent soil sediment from leaving the site.</li> </ul>	nall take all	<ul> <li>d. The total area of the construction site is estimated to be 5.1± acres.</li> <li>The total area if the site that is estimated to be disturbed by excavation, grading, or or</li> </ul>	ther activities, is	<ul> <li>(i) Appropriate temporary or permanent stabilization measures shall include and/or non-vegitative measures.</li> <li>(ii) Areas having slopes greater than 12 percent shall be stabilized with so</li> </ul>	seeding, mulching, sodding, od, mat, or blanket in			
* Sediment and erosion control measures shall be inspected at least once er (7) days and within 24 hours of a rainfall exceeding 0.5 inches during a period or more frequently if required by governing NPDES general permit. A maintenance required by inspection shall commence within 24 hours and be	very seven 24-hour All e completed	major portions of the construction site such as grubbing, excavation, and grading: The sequence of the construction activities may be as follows: See Sequence of major activities on this sheet.		Disturbed areas shall be stabilized with temporary or permanent measures w the end of active disturbance, or redistubance, consistent with the following	vithin 7 calendar days following criteria:			
<ul> <li>Should construction stop for longer than 14 days, the site shall be seeded specified.</li> </ul>	<del>-</del>	<ul> <li>installation of utilities including storm sewers, soil erosion and sedimentation control mea minimum.</li> <li>c. The following is a description of the intended seauence of major activities which will dist</li> </ul>	sures, as a	Rip—rap outlet protection: It shall be inspected after high flows for any scour beneath the Rip—rap for stones that have been dislodged. It shall be repaired immediately. Inlet Protection: Shall be inspected and emptied of silt if filled as required.				
<ul> <li>* All topsoil shall be stripped prior to filling</li> <li>* All exposed group shall be seeded as appeified within 14 days of final are</li> </ul>	dina	The proposed improvements consists of construction of water main, sanitary sever & sto installation, curb and gutter replacement, sidewalk replacement, pavement milling, patchin reconstruction, clearing, grubbing, grading and restoration to existing conditions. The co activities for site improvements will include: site clearing, grubbing, mass, grading pavem	g and nstruction	Straw bale barrier filters: The straw bale barrier filter shall be inspected fr	equently and shall be repaired			
<ul> <li>begin unum an perimeter erosion and sediment control measures have been (Including storm water pollution prevention plan per the development criterio</li> <li>The general contractor shall strictly adhere to the storm water pollution prevention prevention (unumper) during executive.</li> </ul>	installea. a.) evention	<ul> <li>a. The Overall project area is tributary to the Fox River.</li> <li>b. The following is a description of the construction activity which is the set of the construction.</li> </ul>	n·	capacity is occupied by the sediment. In no case shall the sediment be built up to more that 1 foot below the crest elevation. At this stage, the basin shall be cleaned out to restore its original volume. Silt filter fence: The damaged silt filter fence shall be restored to meet the standards or removed and				
<ul> <li>* No land disturbing activities shall not commence until approval to do so h received by governing authorities, in addition to, no land clearing or gradin</li> </ul>	as been g shall	This plan has been prepared to comply with the provisions of the NPDES Permit Number issued b Environmental Protection Agency for Stormwater Discharges from Construction Site Activities.	y the Illinois	Vegetative erosion control measures: The vegetative growth of temporary or vegetative channels, vegetative filter, etc. shall be maintained periodically an and fertilizer. The vegetative cover shall be removed and reseeded as nece	nd permanent seeding, sodding, d supply adequate watering ssary.			

## SPECIFICATIONS AND GENERAL NOTES:

UNITED STATES ARMY CORPS OF ENGINEERS NOTES:

1. EARTHEN COFFERDAMS OR OTHER PRACTICES THAT WOULD RESULT IN A RELEASE OF SEDIMENT INTO WATERS OF THE U.S. ARE NOT AUTHORIZED FOR USE. COFFERDAMS SHALL BE CONSTRUCTED OF NON-ERODIBLE MATERIALS ONLY. ACCEPTABLE PRACTICES INCLUDE, BUT ARE NOT LIMITED TO: PRE-FABRICATED RIGID COFFERDAMS, SHEET PILING, INFLATABLE BLADDERS, SANDBAGS AND FABRIC-LINED BASINS. 1. WORK IN THE WATERWAY SHOULD BE TIMED TO TAKE PLACE DURING LOW OR NO-FLOW CONDITIONS.

2. LOW FLOW CONDITIONS ARE FLOW AT OR BELOW THE NORMAL WATER ELEVATION.

- 3. WATER SHALL BE ISOLATED FROM THE IN-STREAM WORK AREA USING A COFFERDAM CONSTRUCTED OF NON-ERODIBLE MATERIALS (STEEL SHEETS, AQUA BARRIERS, RIP RAP AND GEOTEXTILE FABRIC, ETC.). EARTHEN COFFERDAMS ARE NOT PERMISSIBLE.
- 4. WORK MAY NOT BE PERFORMED IN THE WATER, EXCEPT FOR THE PLACEMENT OF THE MATERIALS NECESSARY FOR THE CONSTRUCTION OF THE COFFERDAM. THE COFFERDAM MUST BE CONSTRUCTED FROM THE UPLAND AREA AND NO EQUIPMENT MAY ENTER THE WATER AT ANY TIME. IF THE INSTALLATION OF THE COFFERDAM CAN NOT BE COMPLETED FROM SHORE AND ACCESS IS NEEDED TO REACH THE AREA TO BE COFFERED, OTHER MEASURES, SUCH AS THE CONSTRUCTION OF A CAUSEWAY, WILL BE NECESSARY TO ENSURE THAT EQUIPMENT DOES NOT ENTER THE WATER ONCE THE COFFERDAM IS IN PLACE AND THE ISOLATED AREA IS DEWATERED, EQUIPMENT MAY ENTER THE COFFERED AREA TO PERFORM THE REQUIRED WORK.
- 5. IF BYPASS PUMPING IS NECESSARY, THE INTAKE HOSE SHALL BE PLACED ON A STABLE SURFACE OR FLOATED TO PREVENT SEDIMENT FROM ENTERING THE HOSE.THE BYPASS DISCHARGE SHALL BE PLACED ON A NON-ERODIBLE, ENERGY DISSIPATING SURFACE PRIOR TO REJOINING THE STREAM FLOW AND SHALL NOT CAUSE EROSION. FILTERING OF BYPASS WATER IS NOT NECESSARY UNLESS THE BYPASS WATER HAS BECOME SEDIMENT-LADEN AS A RESULT OF THE CURRENT CONSTRUCTION ACTIVITIES.
- 6. DURING DEWATERING OF THE COFFERED AREA, ALL WATER MUST BE FILTERED TO REMOVE SEDIMENT. POSSIBLE OPTIONS FOR SEDIMENT REMOVAL INCLUDE BAFFLE SYSTEMS, ANIONIC POLYMERS, DEWATERING BAGS, OR OTHER APPROPRIATE METHODS.WATER SHALL HAVE SEDIMENT REMOVED PRIOR TO BEING RE-INTRODUCED TO THE DOWNSTREAM WATERWAY. A STABILIZED CONVEYANCE FROM THE DEWATERING DEVICE TO THE WATERWAY MUST BE IDENTIFIED. DISCHARGE WATER IS CONSIDERED CLEAN IF IT DOES NOT RESULT IN A VISUALLY IDENTIFIABLE DEGRADATION OF WATER CLARITY.
- 7. THE PORTION OF THE SIDE SLOPE THAT IS ABOVE THE OBSERVED WATER ELEVATION SHALL BE STABILIZED AS SPECIFIED IN THE PLANS PRIOR TO ACCEPTING FLOWS. THE SUBSTRATE AND TOE OF SLOPE THAT HAS BEEN DISTURBED DUE TO CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS AND FULLY STABILIZED PRIOR TO ACCEPTING FLOWS.

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## COUNTY STORMWATER PERMIT REQUIREMENTS:

SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. AREAS OF THE DEVELOPMENT SITE THAT ARE NOT TO BE GRADED SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC OR OTHER DISTURBANCE UNTIL FINAL SEEDING IS PREFORMED. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, DEVELOPMENT SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.STABILIZATION BY SEEDING SHALL INCLUDE TOPSOIL PLACEMENT AND FERTILIZATION, AS NECESSARY.NATIVE SEED MIXTURES SHALL INCLUDE RAPID-GROWING ANNUAL GRASSES OR SMALL GRAINS TO PROVIDE INITIAL, TEMPORARY SOIL STABILIZATION. OFFSITE PROPERTY SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. VELOCITY DISSIPATION DEVICES SHALL BE PLACED AT CONCENTRATED DISCHARGE LOCATIONS ALONG THE LENGTH OF ANY OUTFALL CHANNEL, AS NECESSARY TO PREVENT EROSION. SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE DISTURBANCE OF TRIBUTARY AREAS. STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE DEVELOPMENT SITE, OR TEMPORARY CEASED ON ANY PORTION OF THE DEVELOPMENT SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED WITHIN 1 WORKING DAY OF PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE, BUT NO LATER THAN 14 CALENDAR DAYS FROM THE INITIATION OF STABILIZATION WORK IN THE AREA. EXCEPTIONS TO THESE TIME FRAMES ARE SPECIFIED AS INSTANCES WHEN THE INITIATION OF STABILIZATION MEASURES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE AND IN AREAS WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED AND WILL RESUME AFTER 14 DAYS, A TEMPORARY STABILIZATION METHOD MAY BE USED. DISTURBANCE OF STEEPS SLOPES SHALL BE MINIMIZED. AREAS OR EMBANKMENTS HAVING SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED WITH STAKING IN PLACE SOD, EROSION CONTROL BLANKET IN COMBINATION WITH SEEDING, OR EQUIVALENT CONTROL MEASURE. PERIMETER CONTROL MEASURES SHALL BE PROVIDED DOWNSLOPE AND PERPENDICULAR TO THE FLOW OF RUNOFF FROM DISTURBED AREAS, WHERE THE TRIBUTARY AREA IS GREATER THAN 5,000 SQUARE FEET, AND WHERE RUNOFF WILL FLOW IN A SHEET FLOW MANNER. PERIMETER EROSION CONTROL SHALL ALSO BE PROVIDED AT THE BASE OF SOIL STOCKPILES. THE DRAINAGE SYSTEM SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION DOWNSLOPE FROM DISTURBED AREAS. INLET PROTECTION THAT REDUCES SEDIMENT LOADING, WHILE ALLOWING RUNOFF TO ENTER THE INLET SHALL BE REQUIRED FOR ALL STORM SEWERS. CHECK DAMS, OR AN EQUIVALENT CONTROL MEASURE, SHALL BE REQUIRED FOR ALL CHANNELS. FILTER FABRIC INLET PROTECTION AND STRAW BALE DITCH CHECKS ARE NOT ACCEPTABLE CONTROL MEASURES. IF DEWATERING SERVICES ARE USED. ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G., SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURES). THE ENGINEER AND THE KANE DUPAGE COUNTY SOIL AND WATER CONSERVATION DISTRICT SHALL BE NOTIFIED PRIOR TO THE COMMENCEMENT OF DEWATERING ACTIVITIES.ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS SHALL BE PERMANENTLY STABILIZED.STOCKPILED SOIL AND MATERIALS SHALL BE REMOVED FROM FLOOD HAZARD AREAS AT THE END OF EACH WORK DAY. SOIL AND MATERIALS STOCKPILED IN IWMC OR BUFFER AREAS SHALL BE PLACED ON TIMBER MATS. OR AN EQUIVALENT CONTROL MEASURE.

EFFECTIVE CONTROL MEASURES SHALL BE UTILIZED TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THE DEVELOPMENT SITE. AT A MINIMUM, CONTROL MEASURES SHALL BE IMPLEMENTED IN ORDER TO: MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATER.MINIMIZE THE EXPOSURE OF BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, VEHICLE FLUIDS, SANITARY WASTE, AND OTHER MATERIALS PRESENT ON THE DEVELOPMENT SITE TO PRECIPITATION AND TO STORM WATER. ADEQUATE RECEPTACLES SHALL BE PROVIDED FOR THE DEPOSITION OF ALL CONSTRUCTION MATERIAL DEBRIS GENERATED DURING THE DEVELOPMENT PROCESS. THE CONTRACTOR SHALL NOT CAUSE OR PERMIT THE DUMPING, DEPOSITING, DROPPING, THROWING, DISCARDING OR LEAVING OF CONSTRUCTION MATERIAL DEBRIS UPON OR INTO ANY DEVELOPMENT SITE, CHANNEL OR IWMC. THE DEVELOPMENT SITE SHALL BE MAINTAINED FREE OF CONSTRUCTION MATERIAL DEBRIS. A STABILIZED MAT OF AGGREGATE UNDERLAIN WITH FILTER CLOTH (OR OTHER APPROPRIATE MEASURES) SHALL BE LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION-SITE OF A MAJOR DEVELOPMENT TO OR FROM A PUBLIC RIGHT-OF-WAY, STREET ALLEY, OR PARKING AREA. ANY SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT OF WAY, STREET, ALLEY OR PARKING AREA SHALL BE SCRAPED OR STREET CLEANED AS ACCUMULATIONS

WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA. ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN AN EFFECTIVE WORKING CONDITION.DRAIN TILE SYSTEMS DISTURBED DURING DEVELOPMENT MUST BE RECONNECTED BY THOSE RESPONSIBLE FOR THEIR DISTURBANCE UNLESS THE APPROVED ENGINEERING PLANS INDICATE HOW THE DRAIN TILE SYSTEM IS TO BE CONNECTED TO THE PROPOSED STORM WATER MANAGEMENT SYSTEM.ALL ABANDONED DRAIN TILES SHALL BE REMOVED IN THEIR ENTIRETY. DRAIN TILES WITHIN THE DISTURBED AREA OF THE DEVELOPMENT SHALL BE REPLACED, BYPASSED AROUND THE DEVELOPMENT OR INTERCEPTED AND CONNECTED TO THE DRAINAGE SYSTEM FOR THE DEVELOPMENT. THE SIZE OF THE REPLACED OR BYPASSED DRAIN TILE SHALL BE EQUIVALENT TO THE EXISTING DRAIN TILE.

IN BUFFERS AND WETLANDS, THE EXCAVATED AREAS SHALL BE BACKFILLED WITH NATIVE SOIL IN THE SAME STRATIFICATION IN WHICH THE SOIL WAS REMOVED.

THE CONDITION OF THE CONSTRUCTION SITE FOR WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENTATION CONTROL. ALL OPEN AREAS THAT ARE TO REMAIN IDLE THROUGHOUT THE WINTER SHALL RECEIVE TEMPORARY EROSION CONTROL PRACTICES INCLUDING TEMPORARY SEEDING, MULCHING AND/OR EROSION CONTROL BLANKET PRIOR TO THE END OF THE FALL GROWING SEASON. THE AREAS TO BE WORKED BEYOND THE END OF THE GROWING SEASON MUST INCORPORATE SOIL STABILIZATION PRACTICES THAT DO NOT RELY ON VEGETATIVE COVER SUCH AS EROSION CONTROL BLANKET AND HEAVY MULCHING.

KDSWCD STANDARD NOTES:

- LATEST EDITION.
- BE MAINTAINED ON THE SITE AT ALL TIMES.
- OWNER FOR REVIEW BY THE KDSWCD.
- SEDIMENTATION AS DETERMINED BY THE KDSWCD.
- PROHIBITED

- IMPLEMENTING THE WEEKLY CONSTRUCTION PLANS.

- L) ANY INLET FOUND WITHIN 50' OF A CONSTRUCTION ENTRANCE SHALL HAVE PROTECTION MECHANISMS IN PLACE.
- M) KDSWCD WILL USE THE ILLINOIS URBAN MANUAL AS A TECHNICAL
- RECEIVE ADEQUATE PROTECTION MEASURES AT THE CONCLUSION OF EACH WORK DAY.
- AREAS

A) UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL

B) THE KANE-DUPAGE SOIL AND WATER CONSERVATION DISTRICT (KDSWCD) MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ON WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO THE FINAL INSPECTION. C) A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL

D) PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE

E) THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND

F) ALL DEWATERING OPERATIONS MUST FOLLOW THE ILLINOIS URBAN MANUAL PRACTICE STANDARD 813. DURING DEWATERING OPERATIONS, WATER WILL BE FILTERED OR PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. DEWATERING DIRECTLY INTO FIELD TILES OR STORM WATER STRUCTURES IS

G) IT IS THE RESPONSIBILITY OF THE LANDOWNER AND/OR GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND ASSURE COMPLIANCE WITH ALL APPLICABLE LOCAL. STATE AND FEDERAL REGULATIONS. H) BACKUP QUANTITIES OF BEST MANAGEMENT PRACTICES HIGHLIGHTED IN THIS PLAN WILL BE HELD ON SITE FOR IMMEDIATE CORRECTIONAL ACTION IMPLEMENTATION FOLLOWING AN INSTANCE OF NON-COMPLIANCE. I) THE LOCAL WEATHER PROJECTIONS WILL BE CONSIDERED WHEN J) ANY POTENTIAL IMPACT OF CONSTRUCTION ON OFF-SITE AREAS SHALL BE INCORPORATED INTO THE WEEKLY SWPPP INSPECTIONS. K) ALL TRAFFIC GOING IN AND OUT OF THE CONSTRUCTION SITE SHALL BE RESTRICTED TO STABILIZED CONSTRUCTION ENTRANCES.

REFERENCE FOR GUIDANCE WHEN ACCESSING SITE COMPLIANCE. N) ALL DISTURBED GROUND DIRECTLY UPLAND OF JURISDICTIONAL AREAS SHALL

0) ANY RIP-RAP PLACED IN JURISDICTIONAL AREAS, OR DIRECTLY UPSTREAM SHALL BE CLEANED OF FINES AND DEBRIS PRIOR TO PLACEMENT INTO SAID

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				30-MIL POLYETH		WIRE STAPLE OR SANDBAG	6" Wire Staple or Sandbag 30-Mil Polyethylene 3' Min Native Soil
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OOD REDUCTION & WATER QUALITY PROVEMENTS – PHASE 1 OF ST. CHARLES, IL ST. CHARLES, IL

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