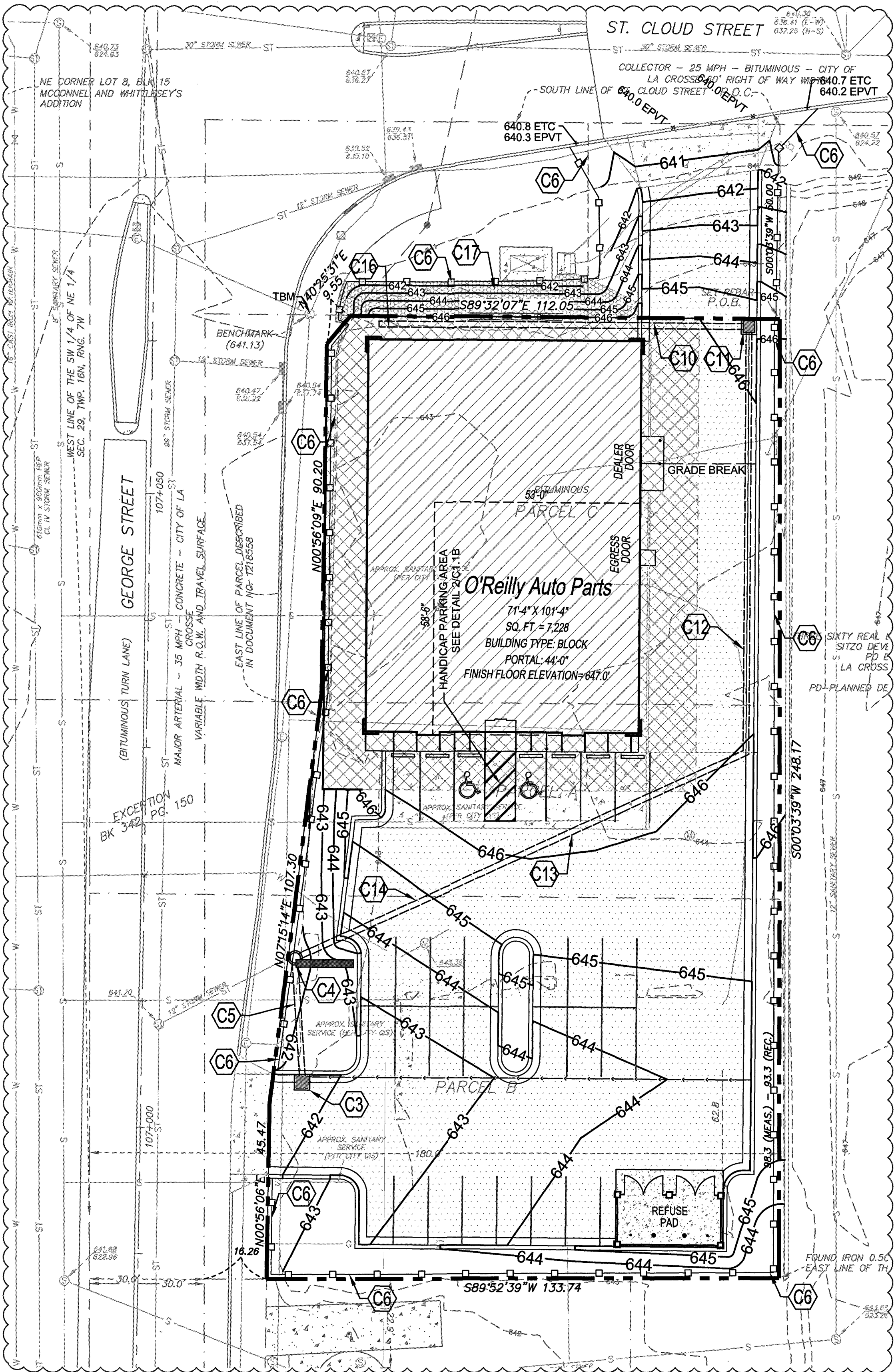
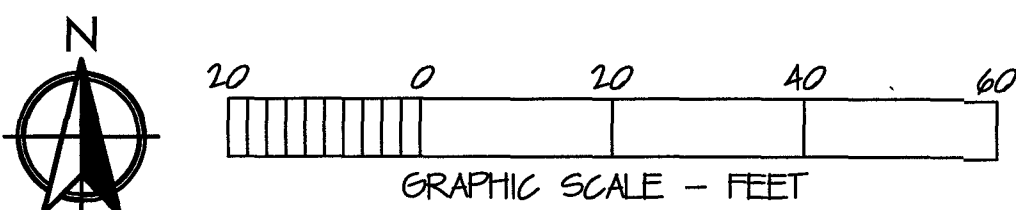


EROSION CONTROL & MAINTENANCE PLAN NOTES:

1. RETAIN FLOATABLE WIND BLOWN MATERIALS ON SITE BY STORING ALL TRASH AND BUILDING MATERIAL WASTE IN ENCLOSURES UNTIL PROPER DISPOSAL AT OFF-SITE FACILITIES. CHECK ADJACENT AREAS DAILY AND PICK UP CONSTRUCTION WASTE MATERIALS AND DEBRIS THAT HAVE BLOWN OR WASHED OFF SITE.
2. PERMANENTLY STABILIZE ALL SURFACE AREA WITHIN AND ADJACENT TO THIS SITE THAT IS DISTURBED BY VEHICLES, GRADING AND OTHER CONSTRUCTION FOR THE PROPOSED FACILITY. STABILIZATION IS OBTAINED WHEN THE DISTURBED SURFACE IS COVERED WITH STRUCTURES, PAVING AND OR PERENNIAL VEGETATION HAVING A UNIFORM COVERAGE DENSITY OF AT LEAST 70%. STABILIZATION OF ALL DISTURBED AREA IS REQUIRED BEFORE TERMINATING MAINTENANCE AND REMOVAL OF EROSION CONTROL MEASURES.
3. CONTRACTORS SHALL INSPECT POLLUTION CONTROL MEASURES AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS AFTER A STORM EVENT OF 1/2 INCH OR GREATER. DAMAGED MEASURES THAT PROVE TO BE INEFFECTIVE SHALL BE REPLACED WITH MORE EFFECTIVE MEASURES OR ADDITIONAL MEASURES WITHIN SEVEN DAYS. REPEATED FAILURE OF A CONTROL MEASURE REQUIRES INSTALLATION OF A MORE SUITABLE DEVICE TO PREVENT DISCHARGE OF POLLUTANTS FROM THE CONSTRUCTION SITE.
4. INSTALLATION OF ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE CITY OR STATE. CONTRACTOR TO VERIFY REQUIREMENTS PRIOR TO BEGINNING ANY WORK ON PROJECT SITE.
5. CARE SHALL BE TAKEN TO MINIMIZE THE ENVOICRMENT OF SEDIMENT INTO ALL STORM DRAIN APPURTENANCES, PUBLIC STREETS, AND ONTO PRIVATE PROPERTY UNTIL IMPERVIOUS MATERIAL (ROAD/PARKING AREA SURFACE) IS APPLIED OR UNTL PROPOSED LANDSCAPE HAS BEEN ESTABLISHED.
6. REFER TO 3/C1.2 FOR SILT FENCE CONSTRUCTION.
7. ALL GRASS SLOPES WHICH EXCEED 3:1 (H:V) SHALL UTILIZE CONTECH CONSTRUCTION PRODUCTS PERMANENT TURF REINFORCEMENT MAT 450 OR APPROVED EQUAL MATS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND STANDARDS. CONTRACTOR SHALL COORDINATE INSTALLATION INSPECTION WITH MANUFACTURER.



1 STORMWATER MANAGEMENT PLAN  
C1.2 SCALE: 1" = 20'



STORM WATER RUNOFF SUMMARY:

TOTAL PROPERTY AREA = 0.71 ACRES  
TOTAL DISTURBED AREA = 0.71 ACRES < 1.0 ACRES THEREFORE DNR SUBMITTAL IS NOT REQUIRED.  
METHOD USED = SCS, HYDROLOGIC SOIL GROUP A (INFILTRATION RATE = 3.6 IN/HR)  
1. ON-SITE AREAS & RUNOFF COEFFICIENTS: 2. PRECIPITATION DATA:  
DESIGN PROJECT AREA = 0.71 ACRES  
SCS TYPE II, 24-HR STORM  
DEPTH INCHES 1 YR 2 YR 5 YR 10 YR 25 YR  
2.50 2.90 3.72 4.41 5.49  
4. EXISTING SITE RUNOFF:  
FLOW CFS 1 YR 2 YR 5 YR 10 YR 25 YR  
Q post= 1.98 2.39 3.14 3.84 4.94  
5. DEVELOPED SITE RUNOFF:  
FLOW CFS 1 YR 2 YR 5 YR 10 YR 25 YR  
Q post= 1.58 1.97 2.71 3.41 4.52  
THE DEVELOPED 1, 2, 5, 10 AND 25-YR STORM EVENT DISCHARGES DO NOT EXCEED EXISTING CONDITIONS SO NO DETENTION IS PROVIDED.  
6. THE CITY OF LA CROSSE REQUIRES WATER QUALITY RESTRICTIONS FOR THIS SITE. SINCE THE PROJECT IS A REDEVELOPMENT, THE SITE WILL BE REQUIRED TO ACHIEVE 60% TSS REMOVAL PER CITY OF LA CROSSE REQUIREMENTS. REFER TO PLAN SHEET C1.1C AND STORMWATER MANAGEMENT AND COMPUTATIONS REPORT FOR WATER QUALITY UP-FLO FILTER DESIGN.

THE 1, 2, 5, 10 AND 25-YR STORM EVENTS WILL BE RESTRICTED BELOW EXISTING CONDITIONS PER CITY OF LA CROSSE REQUIREMENTS.

6. THE CITY OF LA CROSSE REQUIRES WATER QUALITY RESTRICTIONS FOR THIS SITE. SINCE THE PROJECT IS A REDEVELOPMENT, THE SITE WILL BE REQUIRED TO ACHIEVE 60% TSS REMOVAL PER CITY OF LA CROSSE REQUIREMENTS. REFER TO PLAN SHEET C1.1C AND STORMWATER MANAGEMENT AND COMPUTATIONS REPORT FOR WATER QUALITY UP-FLO FILTER DESIGN.

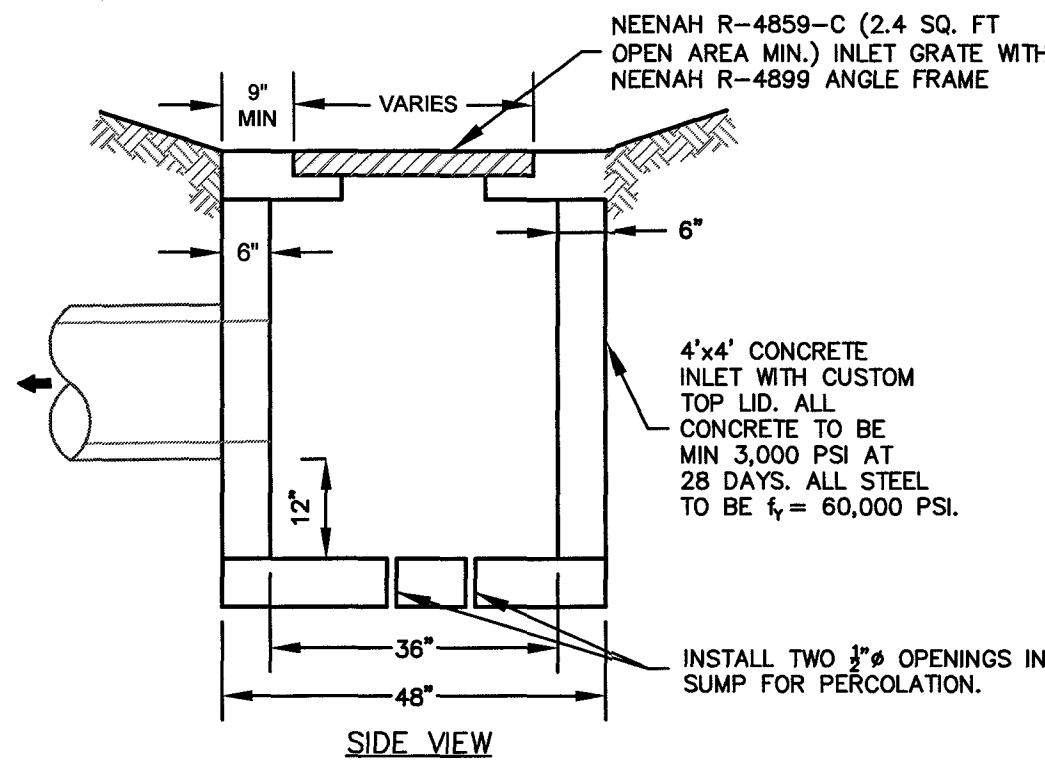
KEY NOTES:

- C1 NOT USED  
C2 NOT USED  
C3 INSTALL 4' X 4' AREA INLET. RM = 641.9', INV = 639.2' REFER TO DETAIL 2/C1.2.  
C4 INSTALL UP FLO FILTER BOX. REFER TO DETAIL 2/C1.1C  
C5 INSTALL APPROX. 30 LF OF 18" PIPE @ MIN 0.5% SLOPE. REFER TO PIPE NOTES.  
C6 LIMITS OF TEMPORARY EROSION CONTROL FENCE: REFER TO DETAIL 3/C1.2.  
C7 NOT USED  
C8 NOT USED  
C9 NOT USED  
C10 INSTALL APPROX. 35 LF OF 18" PIPE @ MIN 0.5% SLOPE. REFER TO PIPE NOTES.  
C11 INSTALL 4' X 4' AREA INLET. RM = 645.0', INV = 640.8' REFER TO DETAIL 2/C1.2.  
C12 INSTALL APPROX. 145 LF OF 18" PIPE @ MIN 0.5% SLOPE. REFER TO PIPE NOTES.  
C13 INSTALL APPROX. 30 LF OF 18" PIPE @ MIN 0.5% SLOPE. REFER TO PIPE NOTES.  
C14 INSTALL APPROX. 62 LF OF 18" PIPE @ MIN 0.5% SLOPE. REFER TO PIPE NOTES.  
C15 NOT USED  
C16 INSTALL 63 LF OF 18" PIPE TO DOWNSPOUT COLLECTOR SYSTEM @ MIN 0.5% SLOPE. REFER TO DETAIL 3/C1.1B AND PIPE NOTES.  
C17 INSTALL 1135 SQ FT OF CONTECH TRM 450 OR APPROVED EQUAL.

CONSTRUCTION EGRESS NOTES:

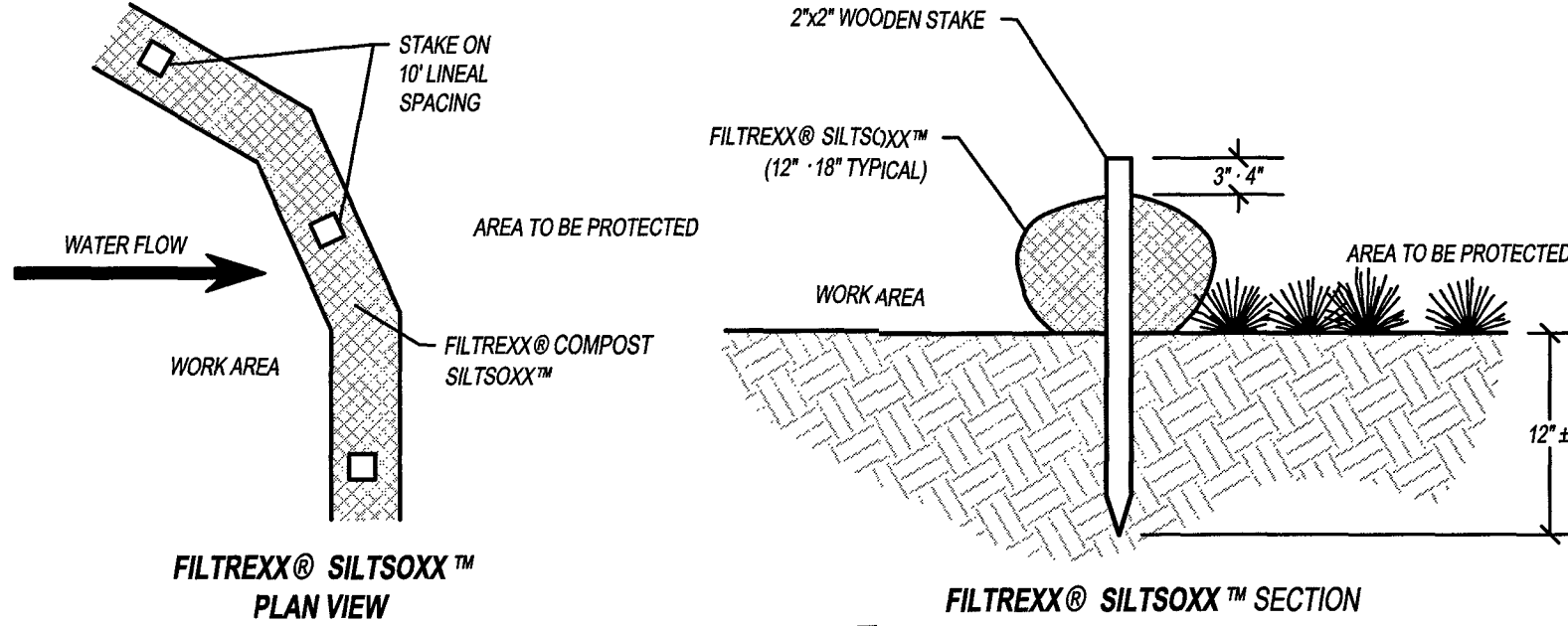
1. DUE TO THIS PROJECT HAVING 4 DIFFERENT CONSTRUCTION PHASES, THE LOCATION OF THE CONSTRUCTION EGRESS WILL NEED TO BE PROPERLY PLACED NEAR THE APPROPRIATE ENTRANCE DURING ALL PHASES OF CONSTRUCTION.  
2. ALL TRAFFIC IS TO USE THE APPROPRIATE CONSTRUCTION EGRESS WHEN LEAVING THE SITE.  
3. CONTRACTOR TO MARK IN RED ON THE PLANS WHERE CONSTRUCTION EGRESS IS PLACED DURING ALL PHASES OF CONSTRUCTION.  
4. CONSTRUCTION EGRESS SHALL BE 25' MINIMUM WIDTH AND 30' MINIMUM LENGTH AND 6" MIN THICKNESS OF STONE (1.5"-3.5") COARSE AGGREGATE WITH GEOTEXTILE UNDERLAYER. REFER TO THE CITY OR STATE FOR ANY ADDITIONAL REQUIREMENTS.  
5. THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1.5-3.5 INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT OF ANY STRUCTURE USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.  
6. WHEELS MUST BE CLEANED TO REMOVE MUD PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN LOCATED PER THE CITY OR STATE REQUIREMENTS.

NOTE: PRIOR TO BEGINNING ANY SITE WORK & ORDERING OF MATERIALS, CONTRACTOR SHALL FIELD VERIFY ALL UTILITY & DRAINAGE CONNECTIONS TO EXISTING SYSTEMS BY POT HOLLING AND SHALL NOTIFY ENGINEER OF NEEDED CHANGES; FAILURE TO DO SO WILL RESULT IN THE CONTRACTOR BEING RESPONSIBLE FOR ALL REVISION COSTS AND DELAYS.



NOTE: MIN. #4 BARS @ 12" O.C. (ALL WALLS VERT, HOR, & SLAB)

2 4' X 4' AREA INLET WITH SUMP  
C1.2 SCALE: NOT TO SCALE

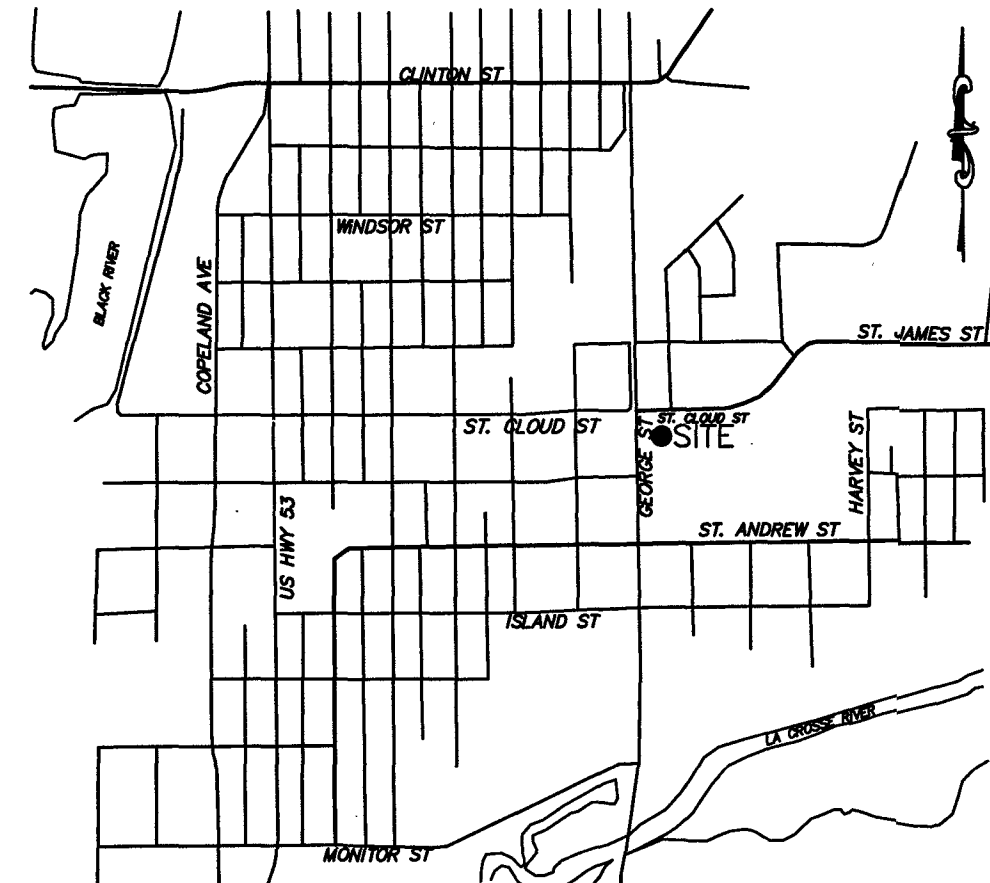


- NOTE:  
1. ALL MATERIAL TO MEET FILTREXX® SPECIFICATIONS OR APPROVED EQUAL.  
2. SILT SOXX™ COMPOST/USOIL/ROCK/SEED FILL TO MEET APPLICATION REQUIREMENTS.  
3. SILT SOXX™ DEPICTED IS FOR MINIMUM SLOPES. GREATER SLOPES MAY REQUIRE LARGER SOCKS PER THE MANUFACTURER SPECIFICATIONS.  
4. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

3 FILTREXX SILT SOXX™  
C1.2 SCALE: NOT TO SCALE

SYMBOLS LEGEND

REFER TO SURVEY (SV1) FOR EXISTING CONDITION SYMBOLS LEGEND AND SITE CONTROL.			
--- 643 ---	EXISTING GRADE LINES	+ 643.0 PVT	NEW SPOT ELEVATIONS
— 643 —	PROPOSED NEW GRADE LINES		LIST
	FILL AREA		GRADE
	NEW BUILDING CONSTRUCTION		SIDEWALK
	NEW POLE SIGN LOCATION		TOP OF WALL
	NEW CONCRETE PAVING BLOCK		TOP OF CURB
	TEMPORARY EROSION CONTROL FENCE		TOP OF PAVEMENT
	SURFACE FLOW ARROW		NEW GRADE
			CONCRETE
			EXISTING TOP OF CURB
			EXISTING GRADE
			EXISTING PAVEMENT
			EXISTING SIDEWALK
			FLOW LINE
			TOP OF BERM
			EMERGENCY OVERFLOW
			TEMPORARY BENCHMARK:
			ELECTRIC MANHOLE RIM NEAR NW CORNER OF SUBJECT PROPERTY
			ELEVATION=641.13 (NAVD 88 DATUM)



VICINITY MAP  
LA CROSSE, WI  
"NO SCALE"

FLOOD ZONE:

ACCORDING TO FLOOD INSURANCE RATE MAP-COMMUNITY PANEL NUMBER 5503020230, THE SUBJECT PROPERTY IS LOCATED IN FLOOD ZONE A, WHICH IS DEFINED AS AN AREA DETERMINED TO BE INSIDE THE 100-YEAR ANNUAL CHANCE FLOODPLAIN.

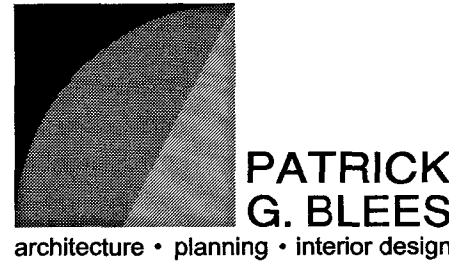
PIPES NOTES:

1. PIPE MATERIALS SHALL BE IN ACCORDANCE WITH AND AS APPROVED BY THE CITY OR APPLICABLE AUTHORITY. PVC PIPE MAY BE USED AS ALLOWED BY LOCAL GUIDELINES.  
2. ALL PIPE IS TO BE INSTALLED PER THE MANUFACTURER'S REQUIREMENTS AND MEET COVER REQUIREMENTS PER THE MANUFACTURER.

MOANDERSON  
ENGINEERING  
EMPLOYEE OWNED

ENGINEERS - SURVEYORS - LABORATORIES - DRILLING  
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ANDERSON COW 38234-003 • PAUL J. ENGEL PE# 64877

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tjohnson@cmarch.com

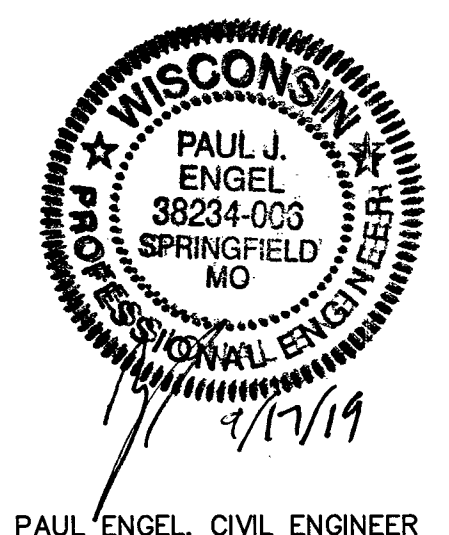
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FAX: 417-882-1188

SEAL:



11/11/16  
DATE ISSUED  
64877  
REG. NO.

O'Reilly AUTO PARTS  
710 GEORGE STREET  
LA CROSSE, WI 54603

SHEET TITLE:  
STORMWATER MANAGEMENT  
PLAN

REVISIONS:			BY:
NO:	DATE:	PLANNING	
1	12/6/17	PLANNING	
2	4/5/18	CITY	
7	10/16/18	CITY	
13	9/17/19	CITY	

PROJECT NO: 16115.014  
DRAWN BY: BL

C1.2