

ENGINEERING PLANS FOR WOODS OF FOX GLEN CREEK STABILIZATION

**CITY OF ST. CHARLES
ST. CHARLES, ILLINOIS
WBK PROJECT NO. 10-0133C**

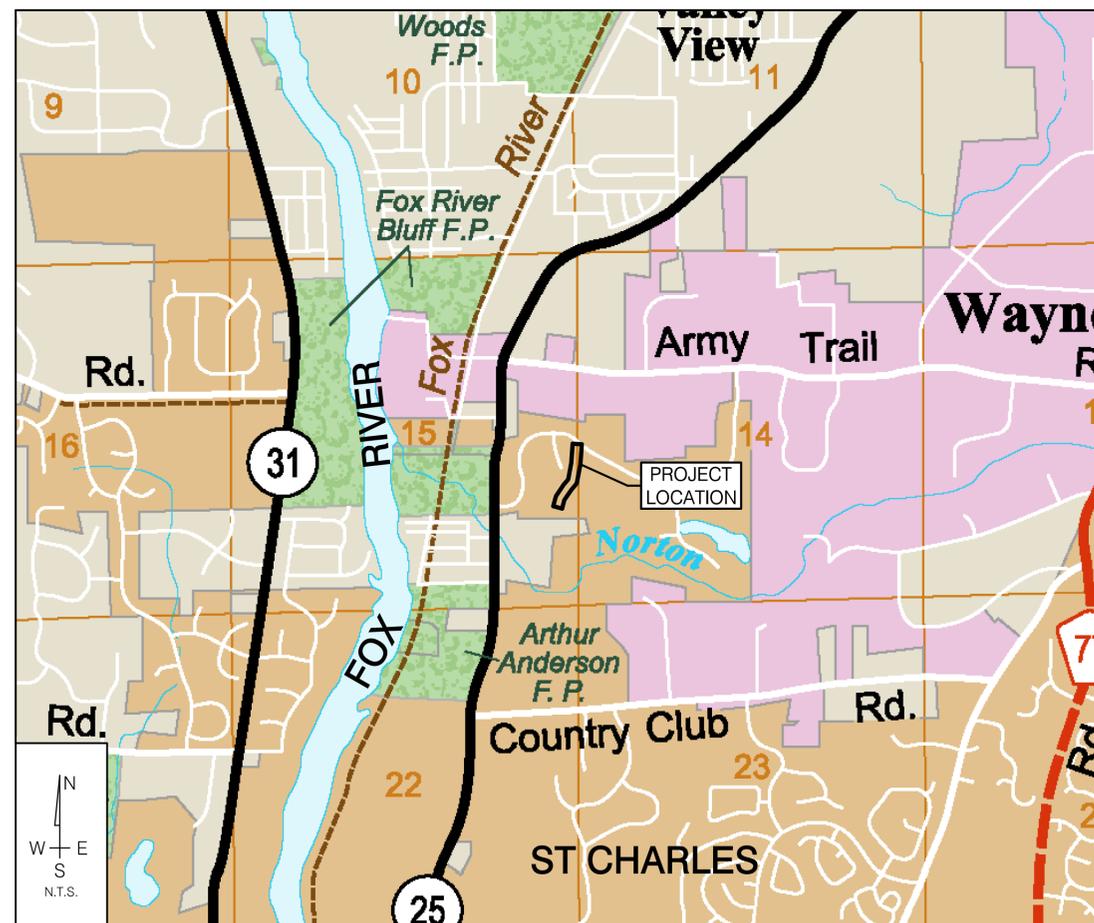
PLAN LEGEND

EXISTING	LINETYPES	PROPOSED
	DRAIN TILE	
	STORM SEWER	
	SANITARY SEWER	
	WATER MAIN (W/ SIZE)	
	PIPE TRENCH BACKFILL	
	GAS MAIN	
	TELEPHONE LINES	
	ELECTRIC LINE	
	FENCE	
	RIGHT-OF-WAY	
	EASEMENT	
	PROPERTY LINE	
	SETBACK LINE	
	CENTERLINE	
	CONTOUR	
	GUARDRAIL	
	SANITARY MANHOLE	
	STORM MANHOLE	
	CATCH BASIN	
	INLET	
	SUMP STRUCTURE	
	FIRE HYDRANT	
	PRESSURE CONNECTION	
	VALVE & VAULT, VALVE	
	FLARED END SECTION	
	STREET LIGHT	
	UTILITY POLE	
	CONTROL POINT	
	SIGN	
	SPOT ELEVATION	
	OVERLAND FLOW ROUTE	
	DRAINAGE SLOPE	
	TREE, EVERGREEN	
	SHRUB & PROPOSED	
	TREE TO REMOVE	

SHEET INDEX

#	TITLE	DESCRIPTION
1	CV	COVER SHEET
2	GN1	GENERAL NOTES
3	EX1	EXISTING CONDITIONS & REMOVAL PLAN
4	TS1	TYPICAL SECTIONS
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7-8	RP1-2	RESTORATION & EROSION CONTROL PLANS
9-10	LP1-2	LANDSCAPING PLANS
11-12	STR1-2	FLOW CONTROL WEIR STRUCTURE DETAILS
13-14	SWP1-2	STORM WATER POLLUTION PREVENTION PLAN
15-18	DT1-4	DETAILS
19-22	XS1-4	CROSS SECTIONS

LOCATION MAP



REVISIONS

ORIGINAL PLAN DATE:			
#	TITLE	DESCRIPTION	DATE
1	ALL	PER CITY REVISIONS	1/30/13
2	ALL	UPDATE & REVISIONS	7/6/15
3	ALL	ISSUED FOR BID	8/14/15

WILLS BURKE KELSEY ASSOCIATES LTD. IS TO BE NOTIFIED AT LEAST THREE (3) DAYS PRIOR TO STARTING CONSTRUCTION AND SHALL BE INCLUDED IN THE PRE-CONSTRUCTION MEETINGS.



CALL J.U.L.I.E. 1-800-892-0123
48 HOURS BEFORE YOU DIG
LOCATION DESCRIPTION



WILLS BURKE KELSEY ASSOCIATES LTD.

116 WEST MAIN STREET, SUITE 201, ST. CHARLES, ILLINOIS 60174
P: 630.443.7755 F: 630.443.0533 WWW.WBKENGINEERING.COM

PROFESSIONAL DESIGN FIRM NO. 184-002097
EXPIRATION DATE: 04/30/2017

CLIENT

CITY OF ST. CHARLES
2 E. MAIN STREET
ST. CHARLES, IL 60174
630.337.4400



ST. CHARLES
SINCE 1834

CIVIL ENGINEER

GREG CHISHMARK, P.E.
WILLS BURKE KELSEY ASSOCIATES
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174



ENGINEER _____ DATE 8/12/15
ILLINOIS REGISTRATION NO.: 062-044133
EXPIRATION DATE: 11/30/2015
THESE PLANS OR ANY PART THEREOF SHALL BE CONSIDERED VOID WITHOUT THE SIGNATURE, SEAL AND EXPIRATION DATE OF SEAL OF THE ENGINEER

NOTES:

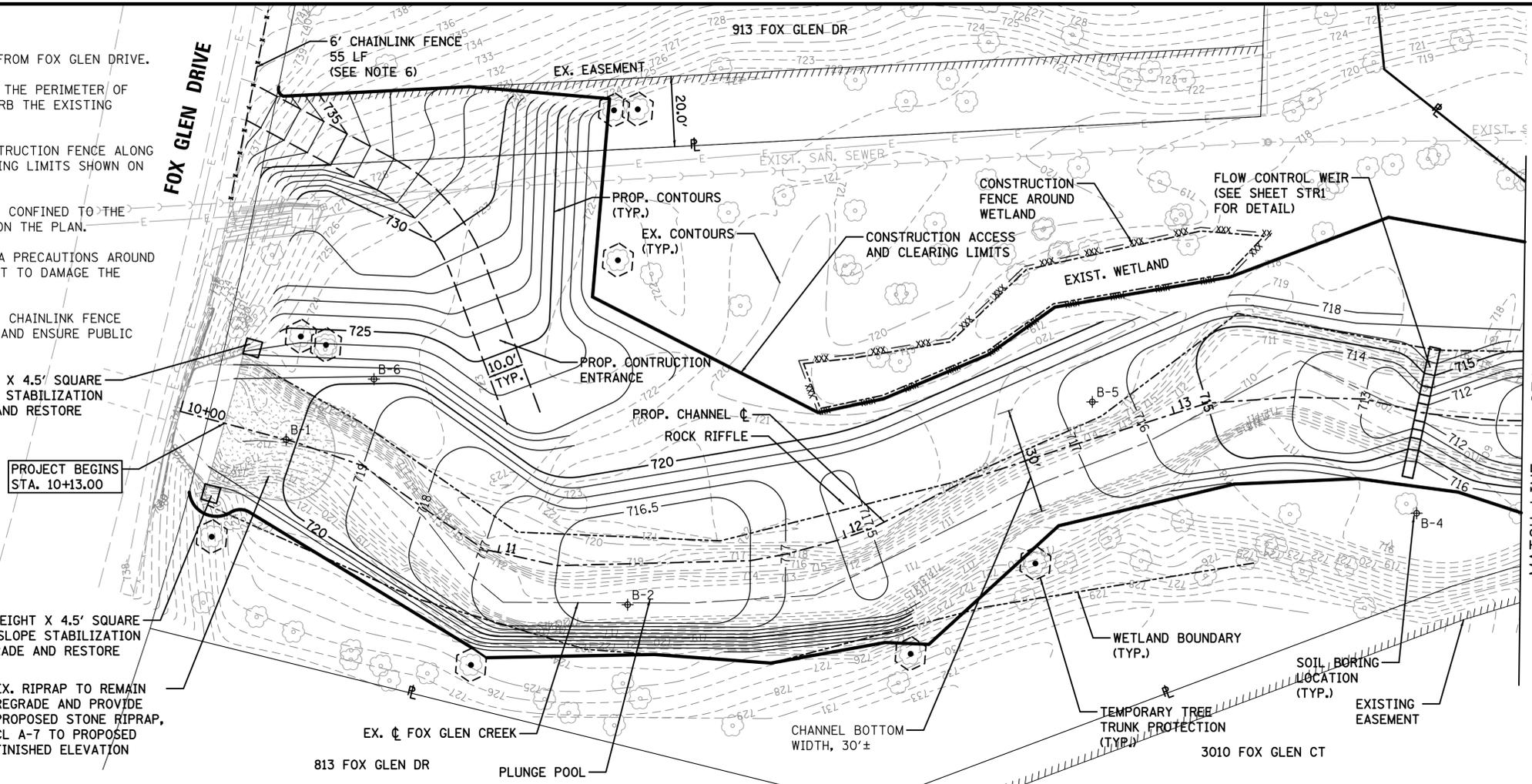
1. ALL CONSTRUCTION ACCESS SHALL BE FROM FOX GLEN DRIVE.
2. PROVIDE CONSTRUCTION FENCE AROUND THE PERIMETER OF THE EXISTING WETLAND. DO NOT DISTURB THE EXISTING WETLAND.
3. THE CONTRACTOR SHALL INSTALL CONSTRUCTION FENCE ALONG THE CONSTRUCTION ACCESS AND CLEARING LIMITS SHOWN ON THE PLANS
4. ALL CONSTRUCTION ACTIVITY SHALL BE CONFINED TO THE CONSTRUCTION ACCESS LIMITS SHOWN ON THE PLAN.
5. THE CONTRACTOR SHALL PROVIDE EXTRA PRECAUTIONS AROUND THE EXISTING ELECTRIC PAD SO AS NOT TO DAMAGE THE ELECTRICAL EQUIPMENT.
6. THE CONTRACTOR SHALL INSTALL A 6' CHAINLINK FENCE WITH GATE TO LIMIT ACCESS TO SITE AND ENSURE PUBLIC SAFETY ALONG THE SIDEWALK.

PROVIDE GABION BASKETS 3' HEIGHT X 4.5' SQUARE FOR GRADE TRANSITION AND SLOPE STABILIZATION AS DETERMINED BY CITY. REGRADE AND RESTORE SLOPE TO HEADWALL.

PROVIDE GABION BASKETS 3' HEIGHT X 4.5' SQUARE FOR GRADE TRANSITION AND SLOPE STABILIZATION AS DETERMINED BY CITY. REGRADE AND RESTORE SLOPE TO HEADWALL.

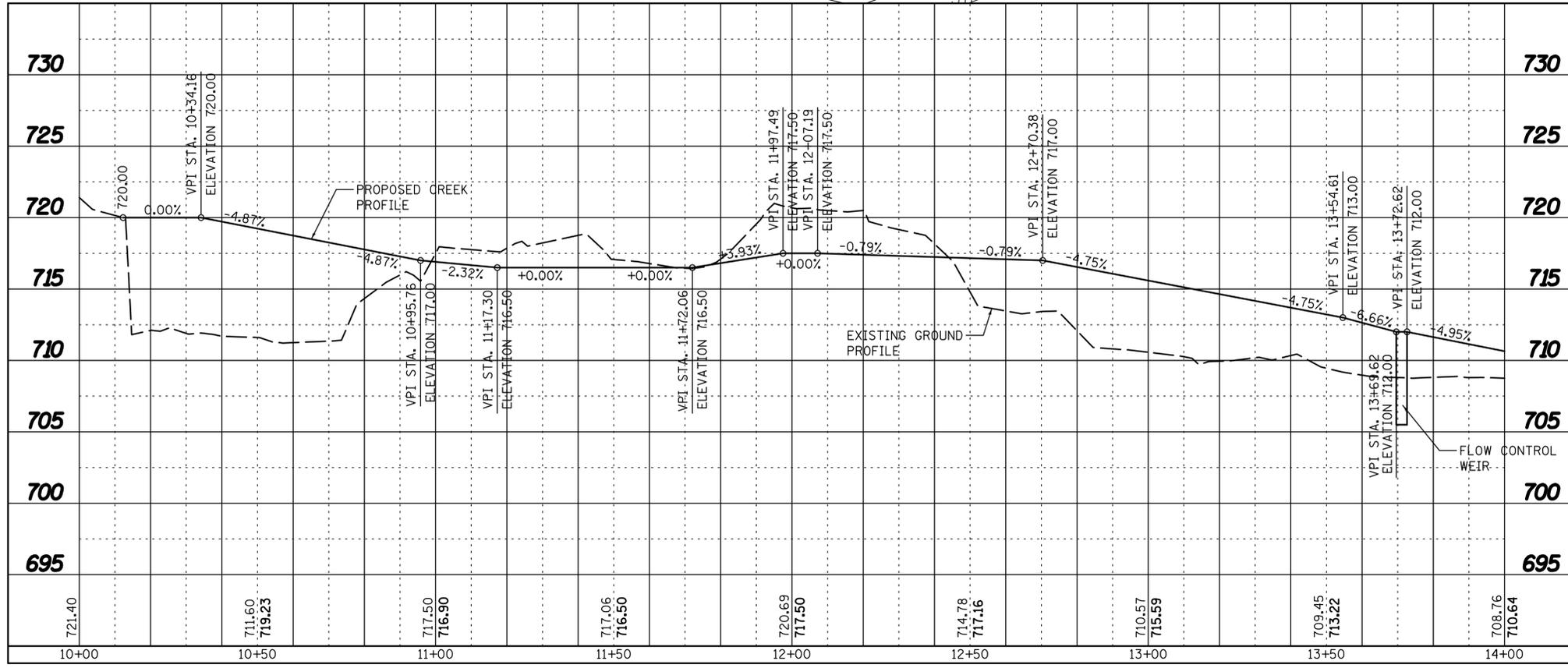
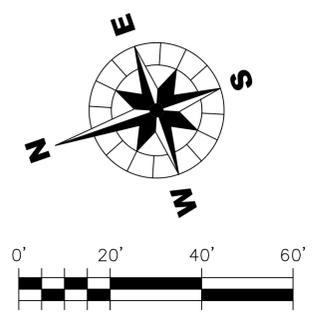
EX. RIPRAP TO REMAIN REGRADE AND PROVIDE PROPOSED STONE RIPRAP, CL A-7 TO PROPOSED FINISHED ELEVATION

PROJECT BEGINS STA. 10+13.00



LEGEND

- B-3 SOIL BORING LOCATION
- TEMPORARY TREE TRUNK PROTECTION
- CONSTRUCTION FENCE AROUND WETLAND



8/11/2015 P:\WBK Projects_2010_2012\2010_100133 WoodsFoxGlen\cadd\Civil\Dgn\Sht\GR-01.dgn

WOODS OF FOX GLEN CREEK STABILIZATION GRADING & PROFILE PLAN & PROFILE

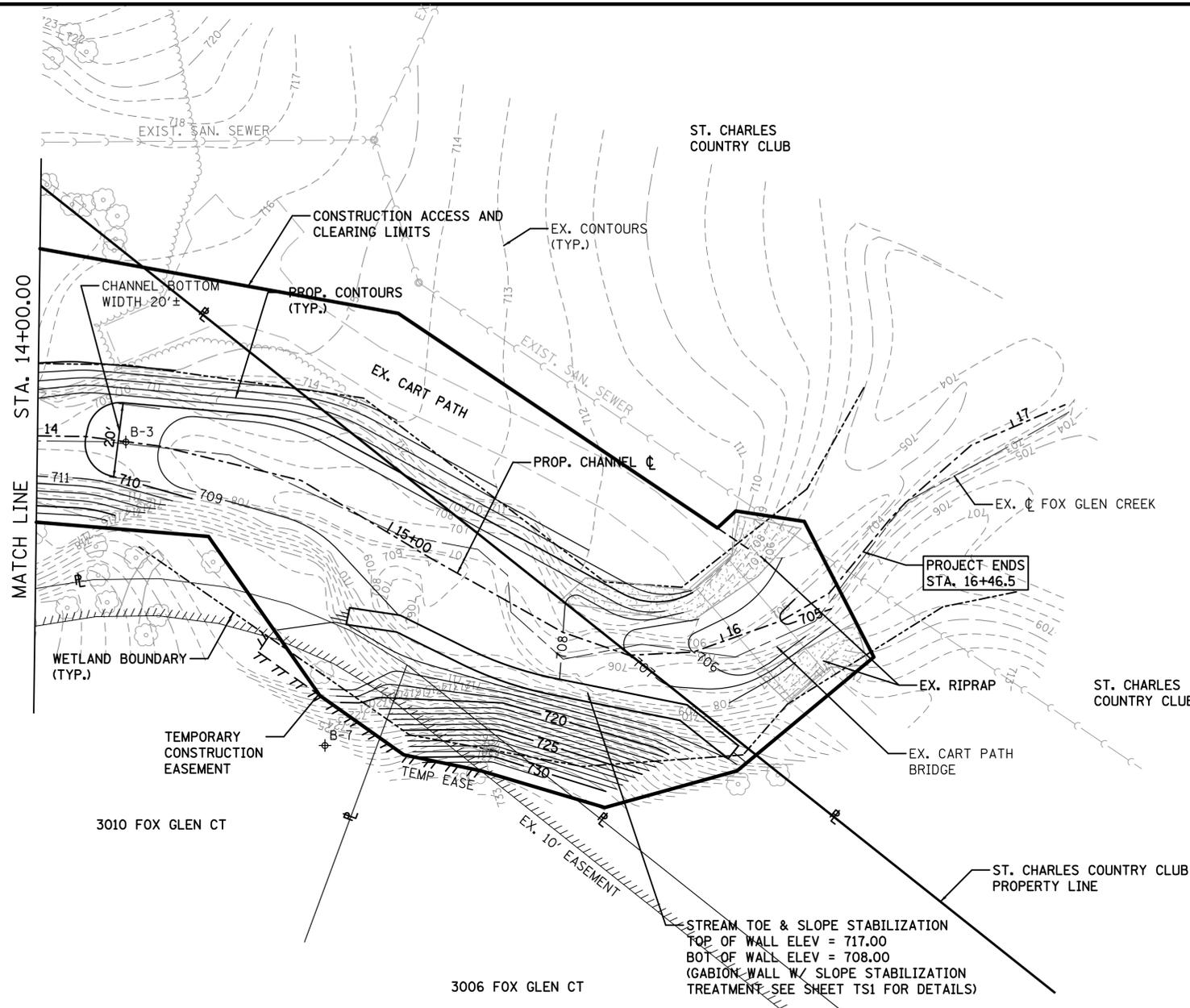
CLIENT: **WILLS BURKE KELSEY ASSOCIATES LTD.**
116 West Main Street, Suite 201
St. Charles, Illinois 60174
(630) 443-7755

PROJECT NO. 10-0133
DATE: 12-12-2012
SHEET 5 OF 22
DRAWING NO. **GR1**

NO. DATE NATURE OF REVISION

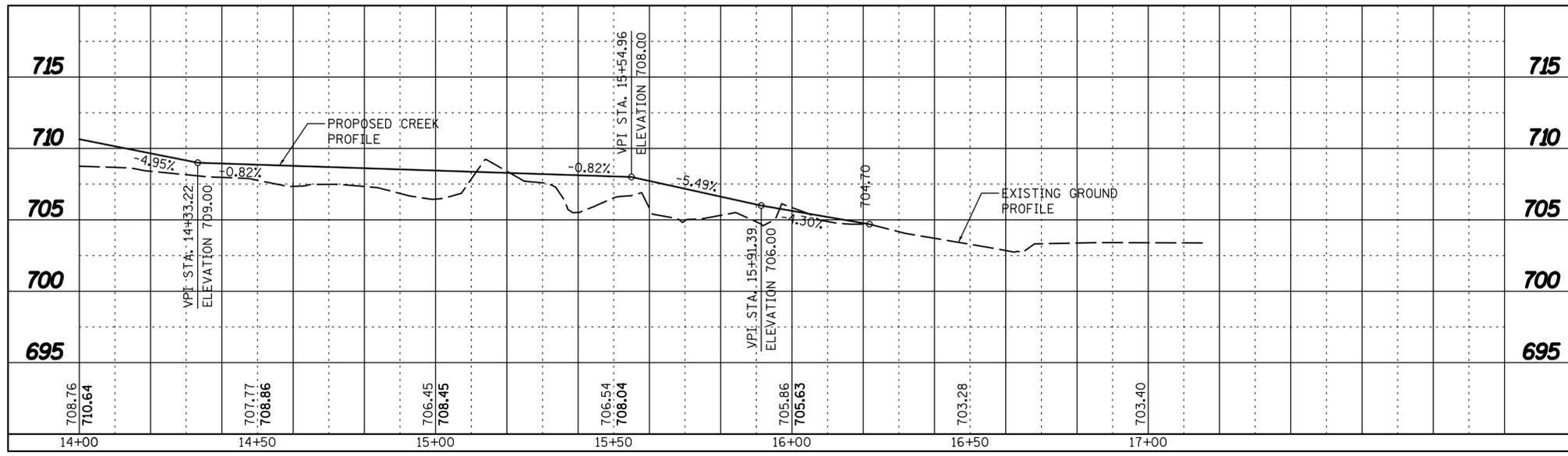
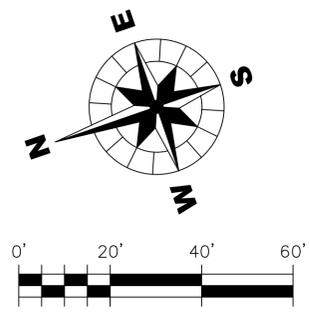
NOTES:

1. ALL CONSTRUCTION ACCESS SHALL BE FROM FOX GLEN DRIVE (SEE SHT GR1).
2. ALL CONSTRUCTION ACTIVITY SHALL BE CONFINED TO THE CONSTRUCTION ACCESS LIMITS SHOWN ON THE PLAN.
3. THE CONTRACTOR SHALL HAVE LIMITED CART PATH ACCESS ONLY AS APPROVED BY THE ST. CHARLES COUNTRY CLUB AND CITY OF ST. CHARLES. THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM THE ST. CHARLES COUNTRY CLUB FOR PATH ACCESS PRIOR TO USE OF THE PATH. CONSTRUCTION TRAFFIC WILL NOT BE ALLOWED ON THE CART PATH BRIDGE, ONLY WALKING ACCESS IS ALLOWED. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGE TO THE CART PATH AND CART PATH BRIDGE TO THE SATISFACTION OF THE OWNER AT CONTRACTOR'S EXPENSE.



LEGEND

- B-3 SOIL BORING LOCATION
- TEMPORARY TREE TRUNK PROTECTION



WOODS OF FOX GLEN CREEK STABILIZATION

GRADING PLAN & PROFILE

CLIENT: **WILLS BURKE KELSEY ASSOCIATES LTD.**
116 West Main Street, Suite 201
St. Charles, Illinois 60174
(630) 443-7755

PROJECT NO. 10-0133
DATE: 12-12-2012
SHEET 6 OF 22
DRAWING NO. **GR2**

TITLE:	WOODS OF FOX GLEN CREEK STABILIZATION		
DSGN.	GJC	NDP	GJC
DWN.			
CHKD.			
SCALE:	AS SHOWN		
NO.	DATE	NATURE OF REVISION	

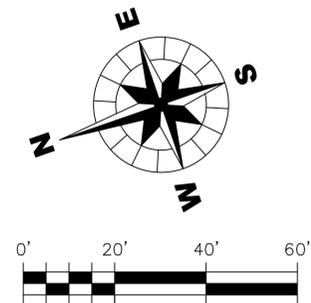
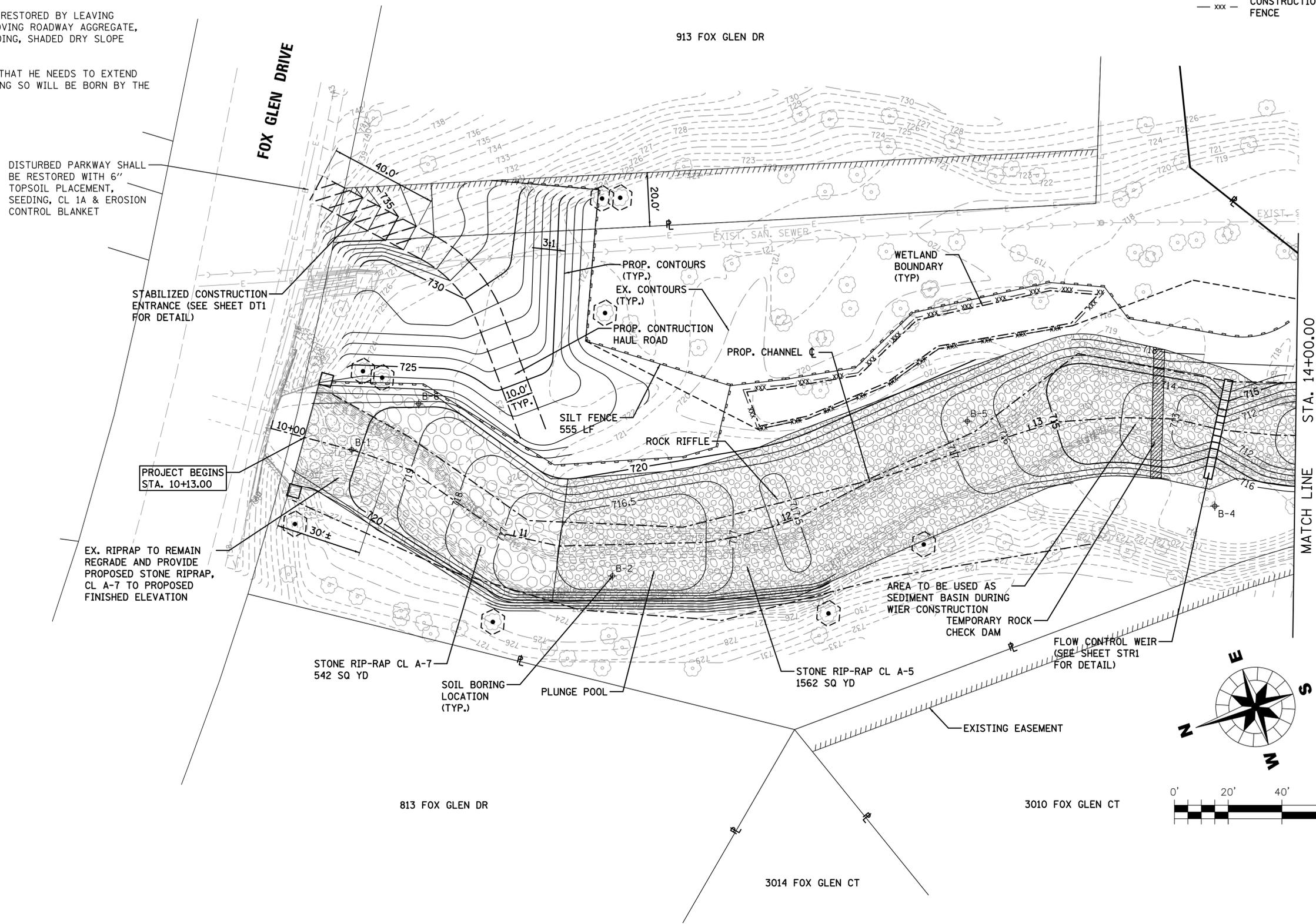
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NOTES:

1. ALL CONSTRUCTION ACCESS SHALL BE FROM FOX GLEN DRIVE.
2. ALL DISTURBED AREAS ADJACENT TO CHANNEL LINING & CONSTRUCTION ACCESS FILL AREA SHALL BE RESTORED WITH 6" TOPSOIL & SEEDING, SHADED DRY SLOPE AND EROSION CONTROL BLANKET. HEAVY DUTY EROSION CONTROL BLANKET SHALL BE USED ON AREAS WITH A SLOPE > 3:1.
3. CONSTRUCTION HAUL ROAD TO BE RESTORED BY LEAVING EMBANKMENT FILL IN PLACE, REMOVING ROADWAY AGGREGATE, AND PROVIDING TOPSOIL, 6", SEEDING, SHADED DRY SLOPE AND EROSION CONTROL BLANKET.
4. IF THE CONTRACTOR DETERMINES THAT HE NEEDS TO EXTEND THE HAUL ROAD THE COST OF DOING SO WILL BE BORN BY THE CONTRACTOR.

LEGEND

-  B-3 SOIL BORING LOCATION
-  TEMPORARY TREE TRUNK PROTECTION
-  CONSTRUCTION FENCE



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TITLE: **WOODS OF FOX GLEN CREEK STABILIZATION RESTORATION AND EROSION CONTROL PLAN**

DSGN.	GJC
DWN.	NDP
CHKD.	GJC
SCALE:	AS SHOWN
NO.	DATE
NATURE OF REVISION	

CLIENT: **CITY OF ST CHARLES
2 EAST MAIN STREET
ST CHARLES, ILLINOIS
630-377-4486**

WILLS BURKE KELSEY ASSOCIATES LTD.
116 West Main Street, Suite 201
St. Charles, Illinois 60174
(630) 443-7755

WBK
PROJECT NO. 10-0133
DATE: 12-12-2012
SHEET 7 OF 22
DRAWING NO. **RP1**

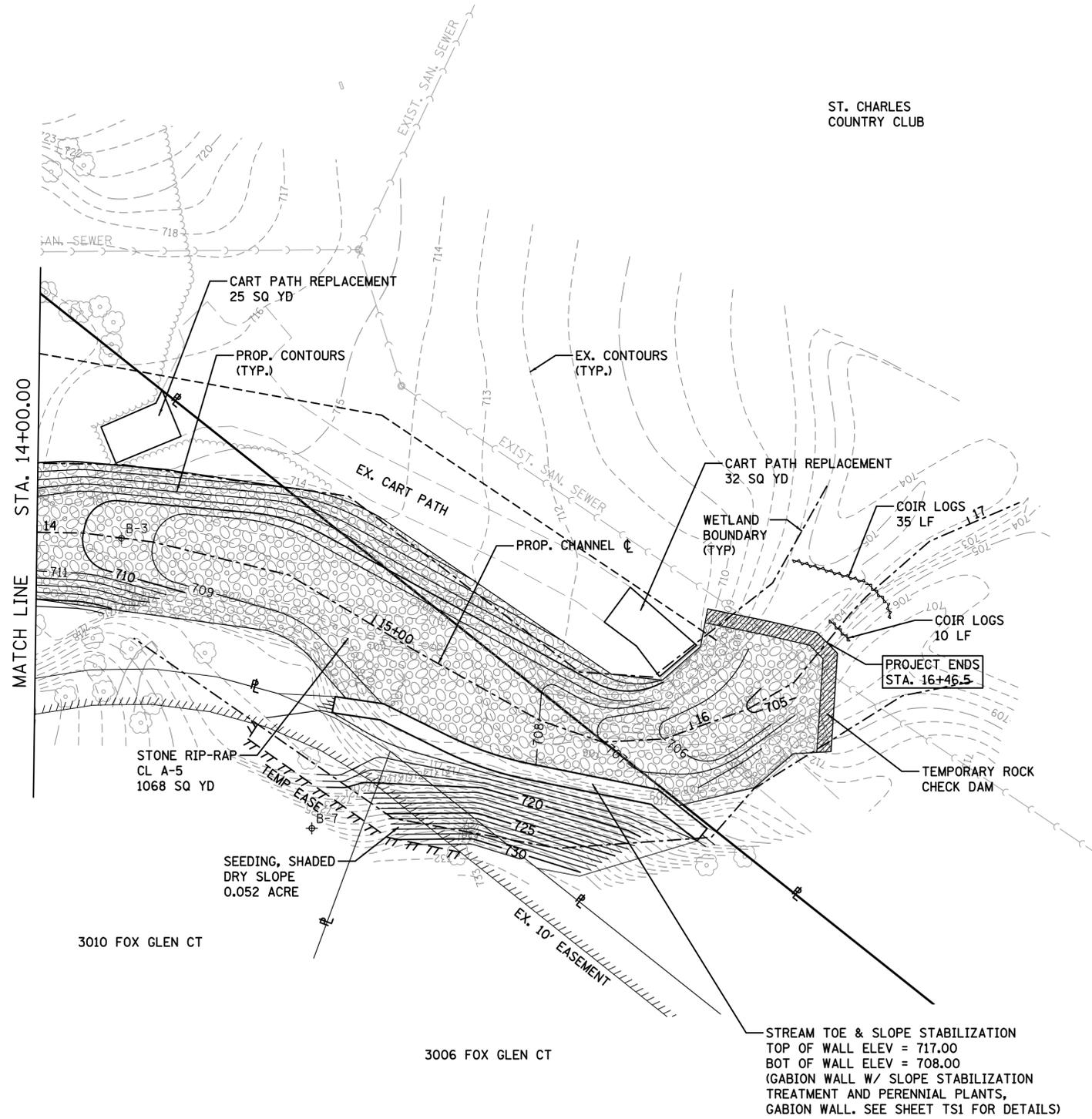
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NOTES:

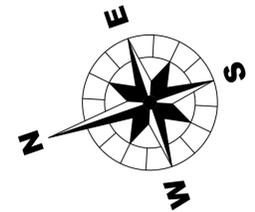
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LEGEND

-  B-3 SOIL BORING LOCATION
-  TEMPORARY TREE TRUNK PROTECTION
-  COIR LOGS



ST. CHARLES COUNTRY CLUB



TITLE: **WOODS OF FOX GLEN CREEK STABILIZATION RESTORATION AND EROSION CONTROL PLANS**

DSGN.	GJC
DWN.	NDP
CHKD.	GJC
SCALE: AS SHOWN	
SP-02.DGN	

CLIENT: **CITY OF ST CHARLES 2 EAST MAIN STREET ST CHARLES, ILLINOIS 630-377-4486**

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 116 West Main Street, Suite 201
 St. Charles, Illinois 60174
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PROJECT NO. 10-0133
 DATE: 12-12-2012
 SHEET 8 OF 22
 DRAWING NO.

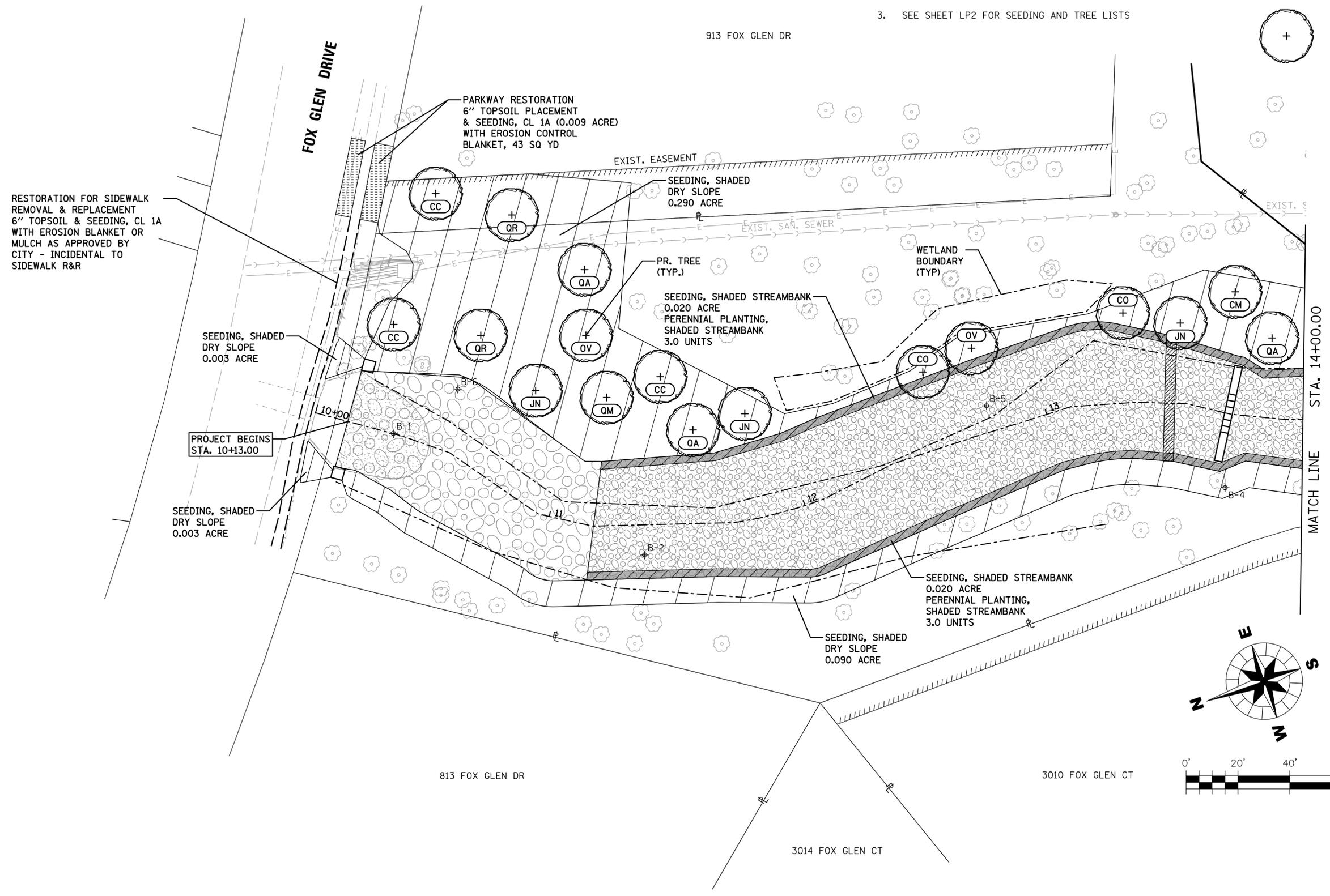
RP2

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- NOTES:
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 3. SEE SHEET LP2 FOR SEEDING AND TREE LISTS

LEGEND

-  SEEDING, SHADED DRY SLOPE
-  SEEDING, SHADED STREAMBANK AND PERENNIAL PLANTING, SHADED STREAMBANK
-  PROPOSED TREE



TITLE: **WOODS OF FOX GLEN CREEK STABILIZATION**
LANDSCAPING PLANS

DSGN.	GJC	NBP	GJC
DWN.			
CHKD.			
SCALE: AS SHOWN			
SP-01.DGN			

CLIENT: **CITY OF ST CHARLES**
2 EAST MAIN STREET
ST CHARLES, ILLINOIS
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PROJECT NO. 10-0133
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 SHEET 9 OF 22
 DRAWING NO. **LP1**

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PERENNIAL PLANTING, GABION WALL				
QUANTITY	SCIENTIFIC NAME	COMMON NAME	TYPE	ZONE
10.00	AQUILEGIA CANADENSIS	COLUMBINE	2-1/4" X 4" PLUG	1 & 2
40.00	CAMPDIS RADICANS	TUMPET CREEPER	PINT CONTAINER	1 & 2
60.00	CAREX BLANDA	COMMON WOOD SEDGE	2-1/4" X 4" PLUG	1 & 2
100.00	CAREX PENNSYLVANICA	COMMON OAK SEDGE	2-1/4" X 4" PLUG	1 & 2
10.00	CELASTRUS SCANDENS	CLIMBING BITTERSWEET	PINT CONTAINER	1 & 2
10.00	CLEMATIS VIRGINIANA	VIRGIN'S BOWER	PINT CONTAINER	1 & 2
20.00	ELYMUS RIPARIUS	RIVERBANK RYE	2-1/4" X 4" PLUG	1
40.00	ELYMUS VILLOSUS	SILKY WILD RYE	2-1/4" X 4" PLUG	1 & 2
60.00	ELYMUS VIRGINICUS	VIRGINIA WILD RYE	2-1/4" X 4" PLUG	1 & 2
20.00	GLYCERIA STRIATA	FOWL MANNA GRASS	2-1/4" X 4" PLUG	1
20.00	HYSTRIX PATULA	BOTTLEBRUSH GRASS	2-1/4" X 4" PLUG	2
40.00	PARTHENOCISSUS QUINQUEFOLIA	VIRGINIA CREEPER	PINT CONTAINER	1 & 2
20.00	VINCA MINOR	PERIWINKLE	PINT CONTAINER	2
450.00	TOTAL PLANTS (SPACING 10" O.C.)			

SEEDING, SHADED STREAMBANK		
LBS. / ACRE	SCIENTIFIC NAME	COMMON NAME
1.000	BROMUS LATIGLUMIS	EAR LEAVED BROME
2.000	ELYMUS CANADENSIS	CANADA WILD RYE
2.000	ELYMUS RIPARIUS	RIVERBANK RYE
1.000	ELYMUS VILLOSUS	SILKY WILD RYE
2.000	ELYMUS VIRGINICUS	VIRGINIA WILD RYE
1.000	GLYCERIA STRIATA	FOWL MANNA GRASS
1.000	POA PALUSTRIS	MARSH BLUE GRASS
10.000	TOTAL WEIGHT OF SEEDS (LBS)	
COVER CROP:		
5.000	AGROSTIS ALBA	RED TOP GRASS
20.000	AVENA SATIVA	OATS

PERENNIAL PLANTING, SHADED STREAMBANK		
QUANTITY	SCIENTIFIC NAME	COMMON NAME
125.00	AQUILEGIA CANADENSIS	WILD COLUMBINE
125.00	CAREX LUPULIFORMIS	KNOBBED HOP SEDGE
125.00	CAREX NORMALIS	NORMAL SEDGE
125.00	CAREX PROJECTA	NECKLACE SEDGE
125.00	CYPERUS SP.	FLAT SEDGE SP.
250.00	JUNCUS SPP.	RUSH SPECIES
125.00	RUDBECKIA LACINATA	WILD GOLDENGLOW
1,000.00	TOTAL PLANTS (SPACING 12" O.C.)	

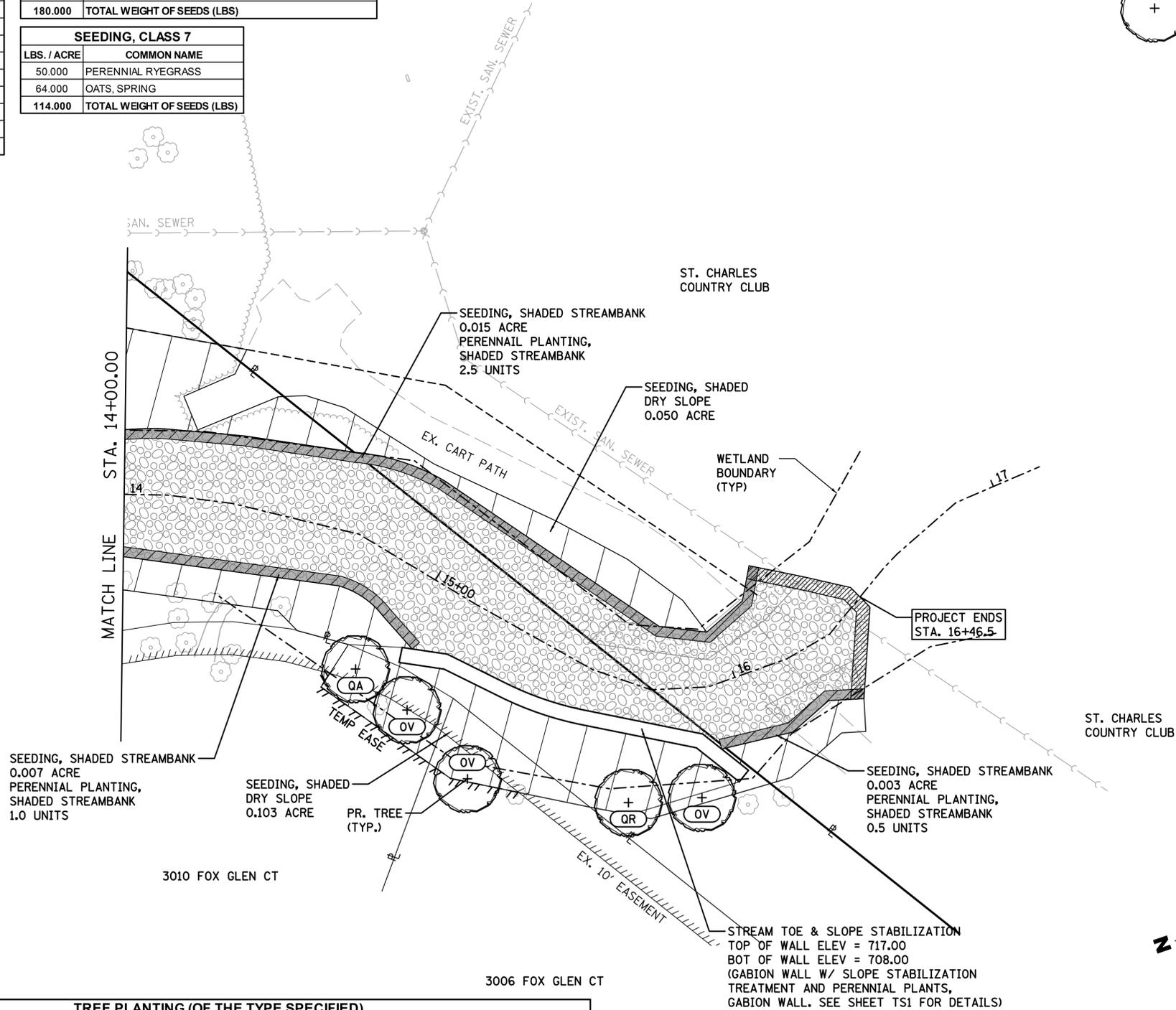
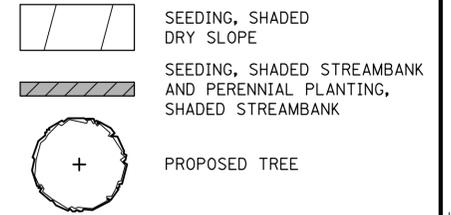
SEEDING, SHADED DRY SLOPE		
LBS. / ACRE	SCIENTIFIC NAME	COMMON NAME
0.250	AGROSTIS PERENNANS	UPLAND BENT GRASS
1.000	ANDROPOGON SCOPARIUS	LITTLE BLUESTEM
0.250	ASTER DRUMMONDII	DRUMMOND'S ASTER
0.250	ASTER SAGITTIFOLIUS	ARROW-LEAVED ASTER
0.125	ATHYRIUM FILIX-FEMINA	LADY FERN
2.000	BOUTELOUA CURTIPENDULA	SIDE OATS
0.250	BROMUS LATIGLUMIS	EAR-LEAFED BROME
0.250	BROMUS PUBESCENS	WOODLAND BROME
0.250	CAREX BLANDA	COMMON WOOD SEDGE
0.250	CAREX PENNSYLVANICA	COMMON OAK SEDGE
0.125	ECHINACEA PURPUREA	PURPLE CONEFLOWER
2.000	ELYMUS CANADENSIS	CANADA WILD RYE
1.000	ELYMUS VILLOSUS	SILKY WILD RYE
4.000	ELYMUS VIRGINICUS	VIRGINIA WILD RYE
0.125	FESTUCA OBTUSA	NODDING FESCUE
1.000	GLYCERIA STRIATA	FOWL MANNA GRASS
0.250	HYSTRIX PATULA	BOTTLEBRUSH GRASS
0.125	LEERSIA VIRGINICA	WHITE GRASS
0.125	PENSTEMON DIGITALIS	FOXGLOVE BEARDTONGUE
0.125	POLYGONATUM CANALICULATUM	SMOOTH SOLOMON'S SEAL
0.125	RATIBIDA PINNATA	YELLOW CONEFLOWER
0.125	SOLIDAGO ULMIFOLIA	ELM-LEAVED GOLDENROD
14.000	TOTAL WEIGHT OF SEEDS (LBS)	
COVER CROP:		
5.000	LOLIUM MULTIFLORUM	ANNUAL RYE (SPRING)
10.000	LOLIUM MULTIFLORUM	ANNUAL RYE (FALL)
32.000	AVENA SATIVA	OATS

SEEDING, CLASS 1A	
LBS. / ACRE	COMMON NAME
60.000	BLUEGRASS
20.000	PERENNIAL RYEGRASS
20.000	RED FESCUE (AUDUBON, SEALINK OR EPIC)
20.000	HARD FESCUE (RESCUE 911, SPARTAN II OR RELIANT IV)
60.000	FULTS SALT GRASS OR SALTY ALKALIGRASS
180.000	TOTAL WEIGHT OF SEEDS (LBS)

SEEDING, CLASS 7	
LBS. / ACRE	COMMON NAME
50.000	PERENNIAL RYEGRASS
64.000	OATS, SPRING
114.000	TOTAL WEIGHT OF SEEDS (LBS)

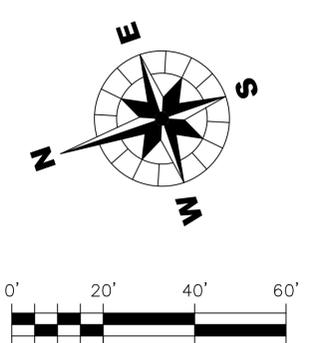
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LEGEND

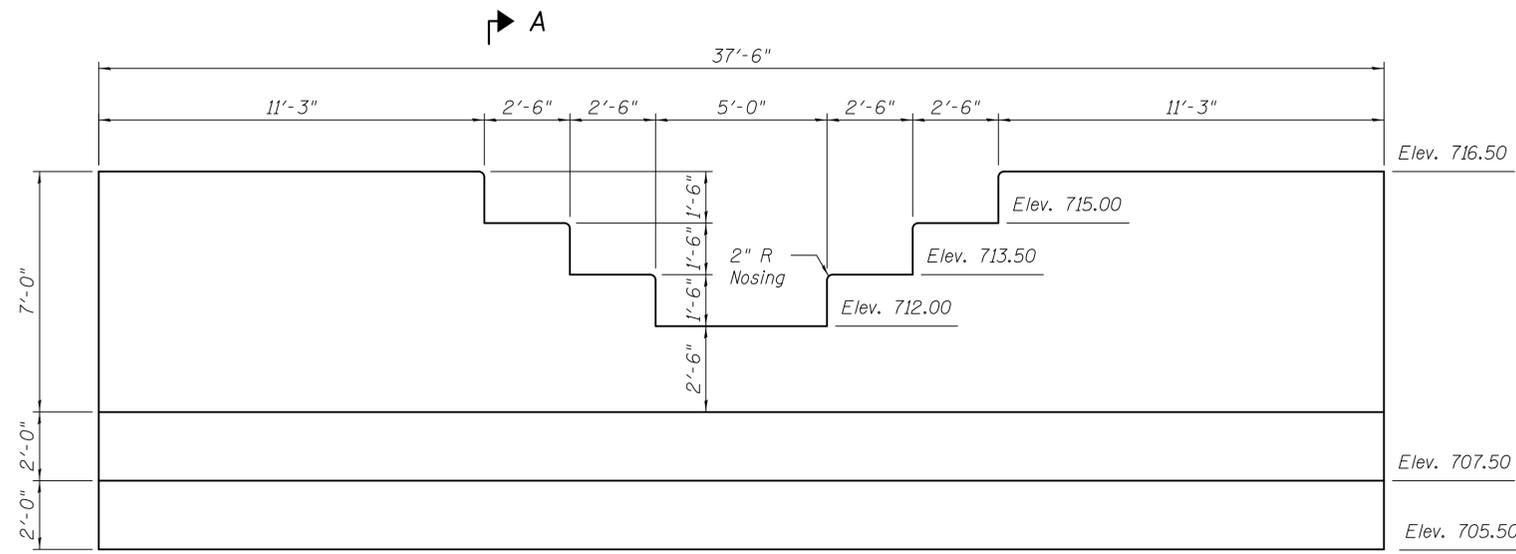


TREE PLANTING (OF THE TYPE SPECIFIED)						
QUANTITY	CODE	SCIENTIFIC NAME	COMMON NAME	SIZE	TYPE	NOTES
2.00	CO	CELTIS OCCIDENTALIS	COMMON HACKBERRY	2" CALIPER	BALLED AND BURLAPPED	
2.00	CC	CERCIS CANADENSIS	EASTERN REDBUD	6' HEIGHT	BALLED AND BURLAPPED	CLUMP FORM
1.00	CM	CRATAEGUS MOLLIS	DOWNY HAWTHORN	6' HEIGHT	BALLED AND BURLAPPED	CLUMP FORM
3.00	JN	JUGLANS NIGRA	BLACK WALNUT	2" CALIPER	BALLED AND BURLAPPED	
5.00	OV	OSTRYA VIRGINIANA	AMERICAN HOPHORNBEAM	8' HEIGHT	BALLED AND BURLAPPED	CLUMP FORM
4.00	QA	QUERCUS ALBA	WHITE OAK	2" CALIPER	BALLED AND BURLAPPED	
1.00	QM	QUERCUS MACROCARPA	BUR OAK	2" CALIPER	BALLED AND BURLAPPED	
3.00	QR	QUERCUS RUBRA	RED OAK	2" CALIPER	BALLED AND BURLAPPED	

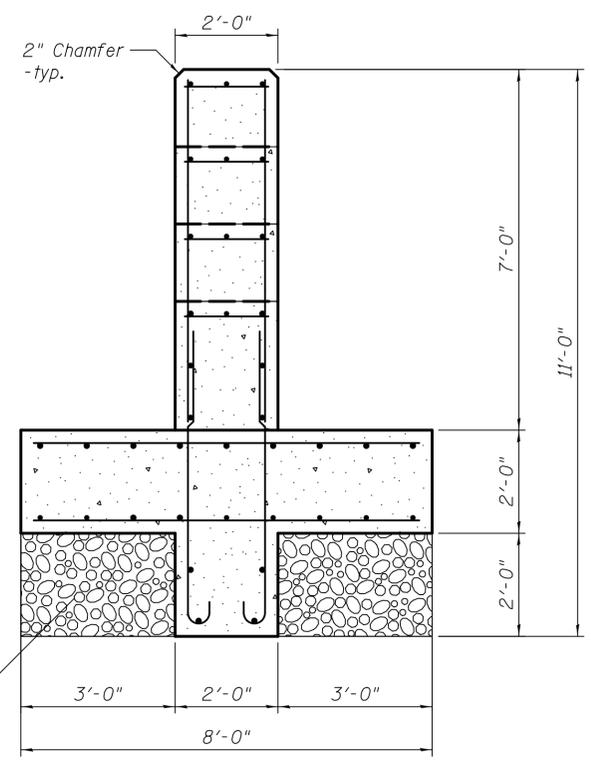
WOODS OF FOX GLEN CREEK STABILIZATION LANDSCAPING PLANS
 TITLE: WOODS OF FOX GLEN CREEK STABILIZATION
 DSGN: GJC
 DWN: NDP
 CHKD: GJC
 SCALE: AS SHOWN
 NO. DATE NATURE OF REVISION
 SP-02.DGN
CITY OF ST CHARLES 2 EAST MAIN STREET ST CHARLES, ILLINOIS 630-377-4486
 CLIENT: WILLS BURKE KELSEY ASSOCIATES LTD. 116 West Main Street, Suite 201 St. Charles, Illinois 60174 (630) 443-7755
 PROJECT NO. 10-0133
 DATE: 12-12-2012
 SHEET 10 OF 22
 DRAWING NO. **LP2**



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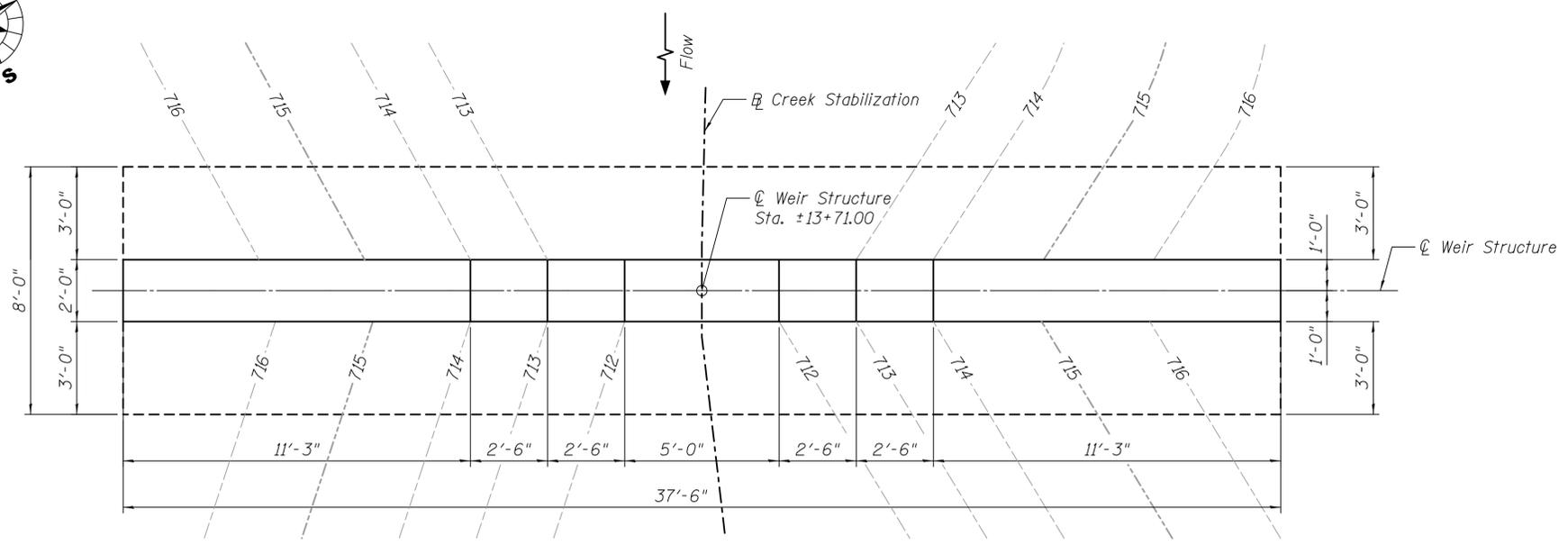


ELEVATION
(Showing dimensions)



SECTION A-A

Compacted CA 7 - Cost included in Concrete Structures



PLAN

GENERAL NOTES

1. Construction and materials shall conform to the requirements of the Illinois Department of Transportation Standard Specifications for Road and Bridge Construction adopted January 1, 2012.
2. The concrete shall be Class SI.
3. Reinforcement bars shall conform to the requirements of ASTM A706 Gr 60.
4. The Contractor shall be responsible for providing test results or documentation by a geotechnical engineer to confirm that the subgrade can attain a minimum bearing pressure of 2,000 psf. This documentation shall be submitted to the Engineer for approval.

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500 \text{ psi}$
 $f_y = 60,000 \text{ psi (Reinforcement)}$

WOODS OF FOX GLEN CREEK STABILIZATION		FLOW CONTROL WEIR STRUCTURE - DETAILS I	
TITLE:	DLS	DLS	DLS
DESIGN:	DWN.	CHKD.	AEU
NO.	DATE	NATURE OF REVISION	
CLIENT: CITY OF ST CHARLES 2 EAST MAIN STREET ST CHARLES, ILLINOIS 630-377-4486			
CLIENT: WILLS BURKE KELSEY ASSOCIATES LTD. 116 West Main Street, Suite 201 St. Charles, Illinois 60174 (630) 443-7755			
PROJECT NO. 10-0133 DATE: 12-12-2012 SHEET 11 OF 22 DRAWING NO. STR1			

