

# CLEARSPRING STREAM RESTORATION PROJECT

Montgomery County Department of Environmental Protection Magruder Branch (Tributary to the Upper Great Seneca Creek in the Potomac River Watershed)



MARK	DESCRIPTION	DATE	APPR.	APPR.

DESIGNED BY: GSM	DATE: OCT 2014
DRAWN BY: AS	TASK ORDER NO: WRE 12-28
DATE: 7/1/15	CONTRACT NO.:
PROJECT DATE: 10/01/2014	FILE NUMBER:
PROJECT NAME: CLEARSPRING ILLUSTRATIVE DWG	ANSI D

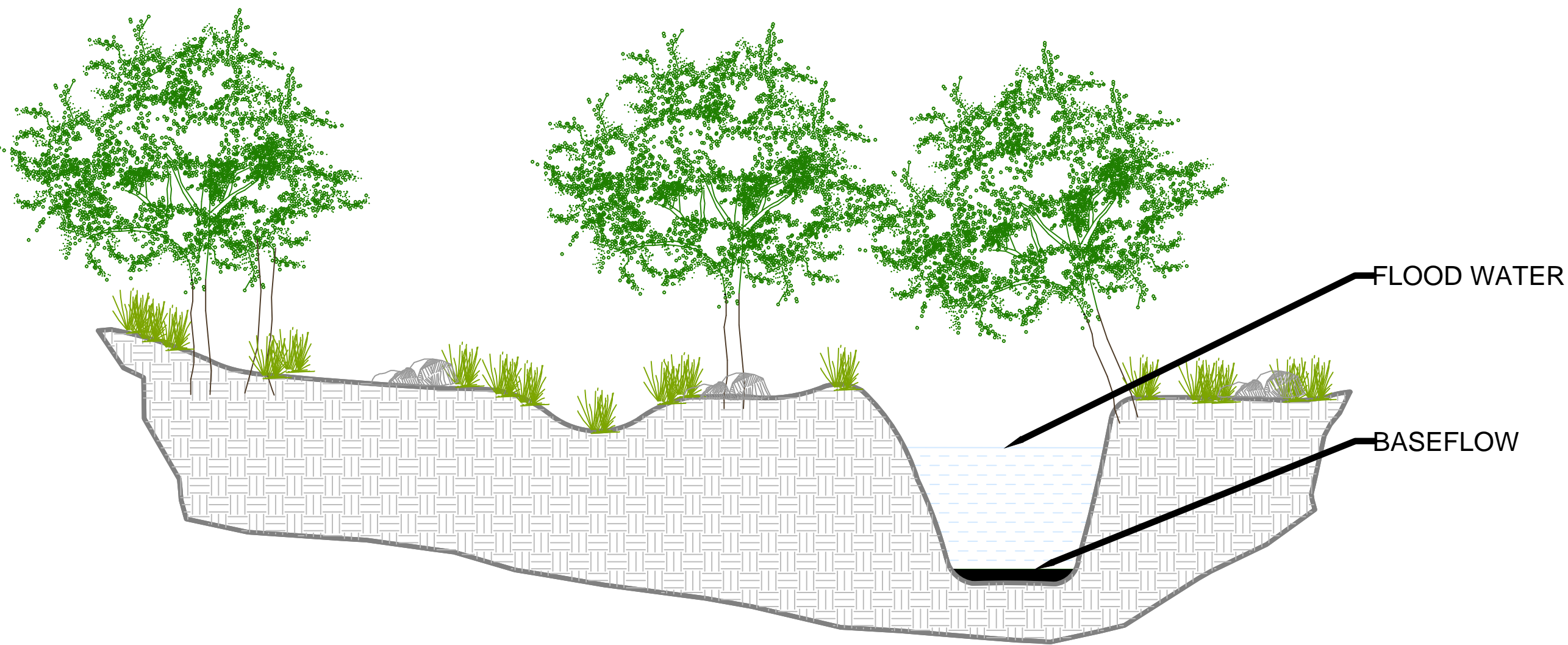
MR. CRAIG CARSON 240-777-7713  
MONTGOMERY COUNTY DEPARTMENT  
OF ENVIRONMENTAL PROTECTION  
265 ROCKVILLE ROAD  
ROCKVILLE, MD 20850

**CPJ**  
Associates

WRE 12 - TASK ORDER 28  
CLEARSPRING STREAM RESTORATION  
CONCEPT PLAN - NOT FOR CONSTRUCTION  
DAMASCUS (22H) ELECTION DISTRICT  
MONTGOMERY COUNTY, MARYLAND

PRELIMINARY GRADING PLAN

SHEET NO.  
2 of 2  
GR-02



CROSS SECTION EXISTING CONDITIONS



UNSTABLE MULTI-THREAD WITH SEVERAL KNICK-POINTS



SEVERELY ERODED, DEEP CHANNEL WITH BANKS >6' TALL

## EXISTING CONDITIONS

## PROPOSED CONDITIONS



RIFFLE/POOL SEQUENCE, STABILIZED BANKS



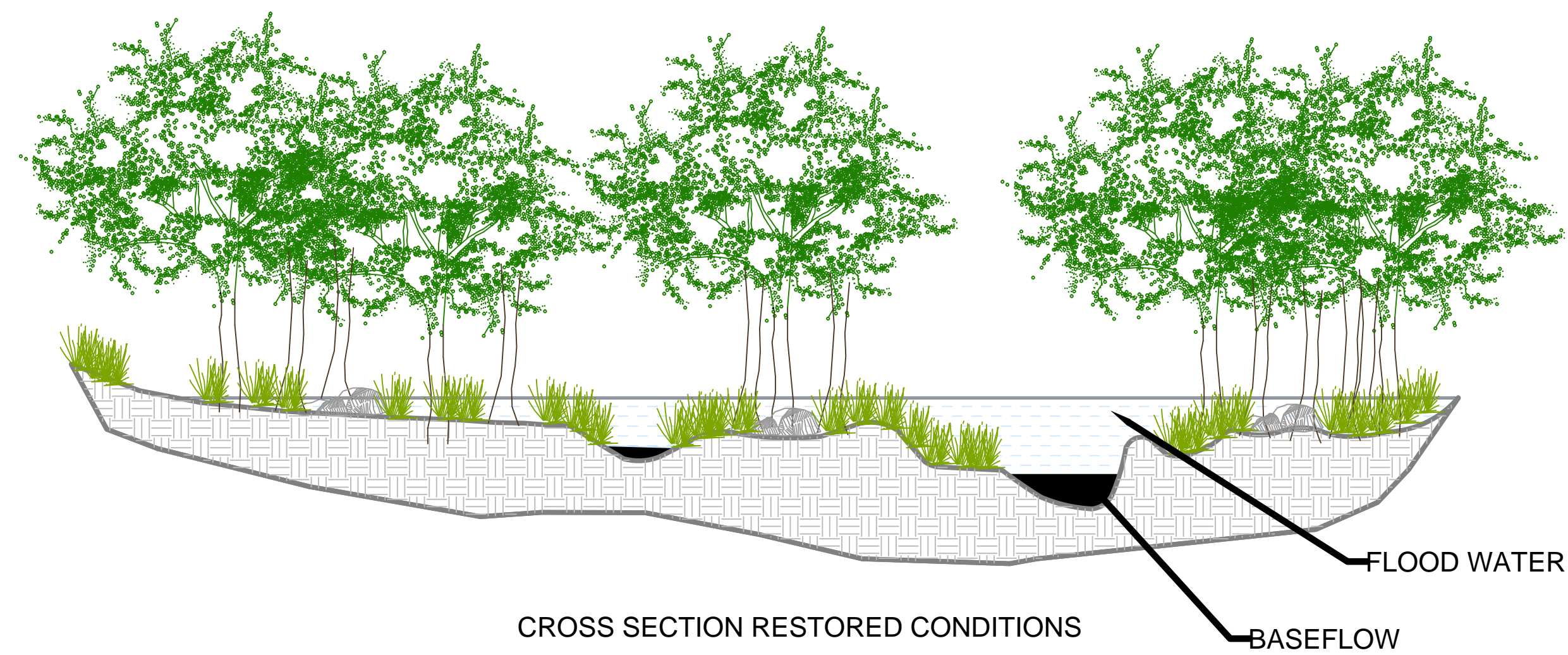
STABILIZED MULTI-THREAD CHANNEL & WETLANDS



UNSTABLE MULTI-THREAD WITH SEVERAL KNICK-POINTS



RIFFLE GRADE CONTROL IN STABILIZED MULTI-THREAD CHANNEL

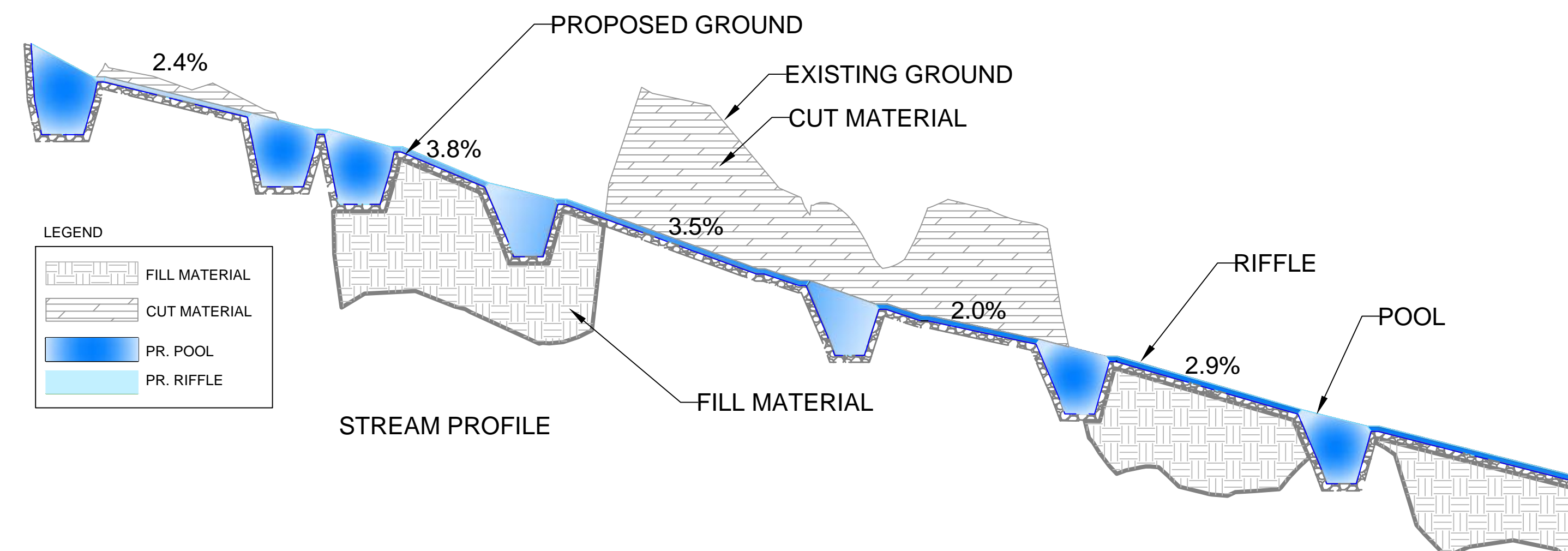
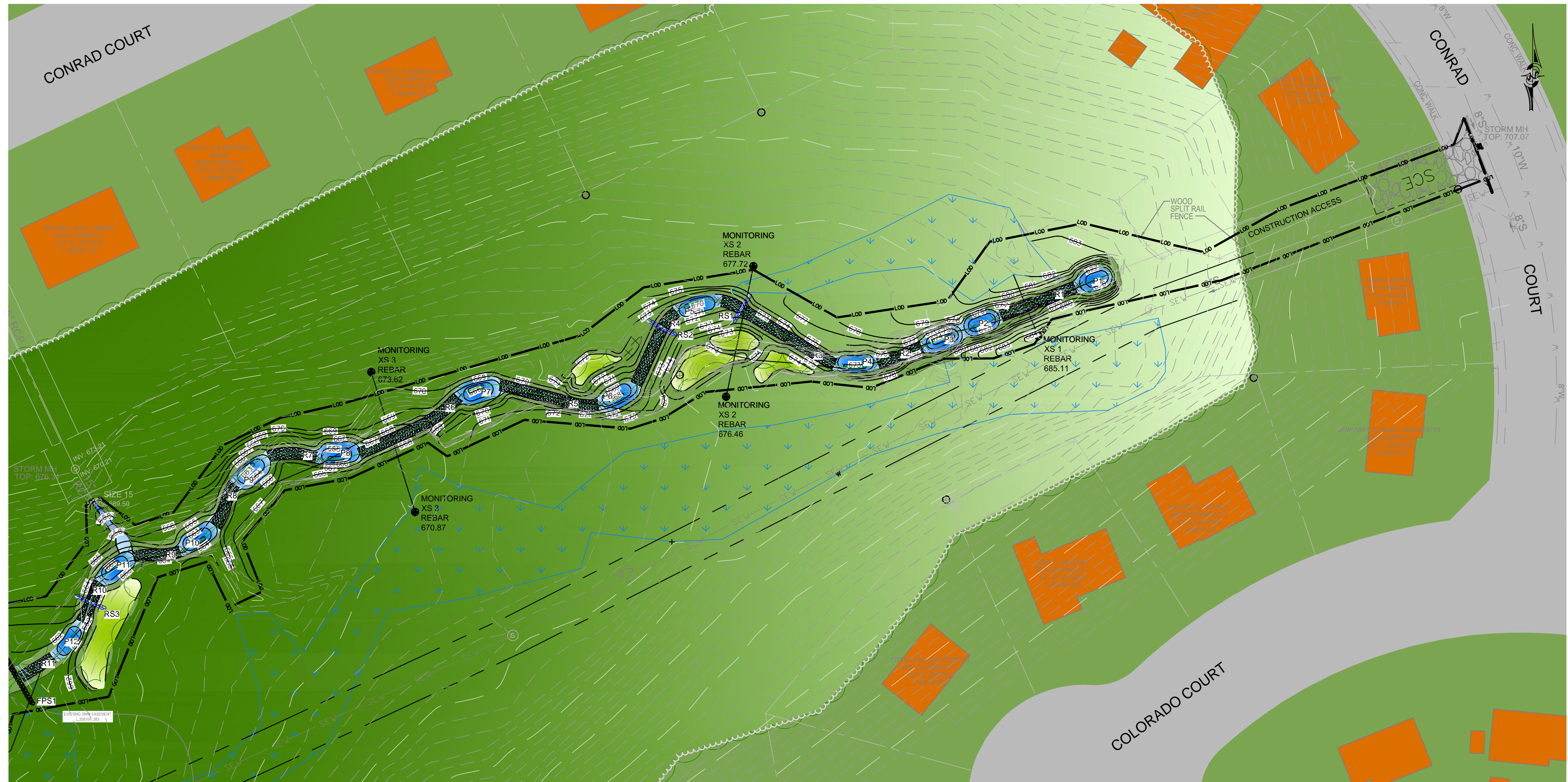


CROSS SECTION RESTORED CONDITIONS



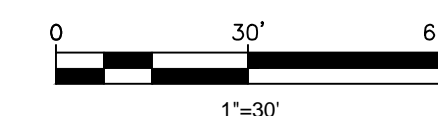
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## LEGEND

- EX. FOREST
- EX. WETLAND
- EX. GRASS
- EX. BUILDING
- EX. ROAD
- EX. TOPOGRAPHY
- PR. POOL
- PR. RIFFLE
- PR. ROCK SILL
- PR. STREAM CENTER LINE
- PR. WETLAND
- STABILIZED CONSTRUCTION ENTRANCE
- PR. GRADING
- LIMIT OF DISTURBANCE (LOD)



MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: GSM	DATE: OCT 2014
CHKD BY: J/ABB	TASK ORDER NO: WRE 12-28
DWN BY: GSM	CONTRACT NO.:
SUBMITTED BY:	FILE NUMBER:
PLOT SCALE: 1"=30'	PLOT DATE: 10/02/2014
ANSI D	FILE NAME: CLEARSPRING ILLUSTRATIVE DWG

MR. CRAIG CARSON 240-777-7713  
MONTGOMERY COUNTY DEPARTMENT  
OF ENVIRONMENTAL PROTECTION  
265 ROCKVILLE PIKE  
ROCKVILLE, MD 20850



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CLEARSPRING STREAM RESTORATION  
CONCEPT PLAN - NOT FOR CONSTRUCTION  
DAMASCUS (121H) ELECTION DISTRICT  
MONTGOMERY COUNTY, MARYLAND

PRELIMINARY GRADING PLAN

SHEET NO.  
1 of 2  
GR-02