

DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION

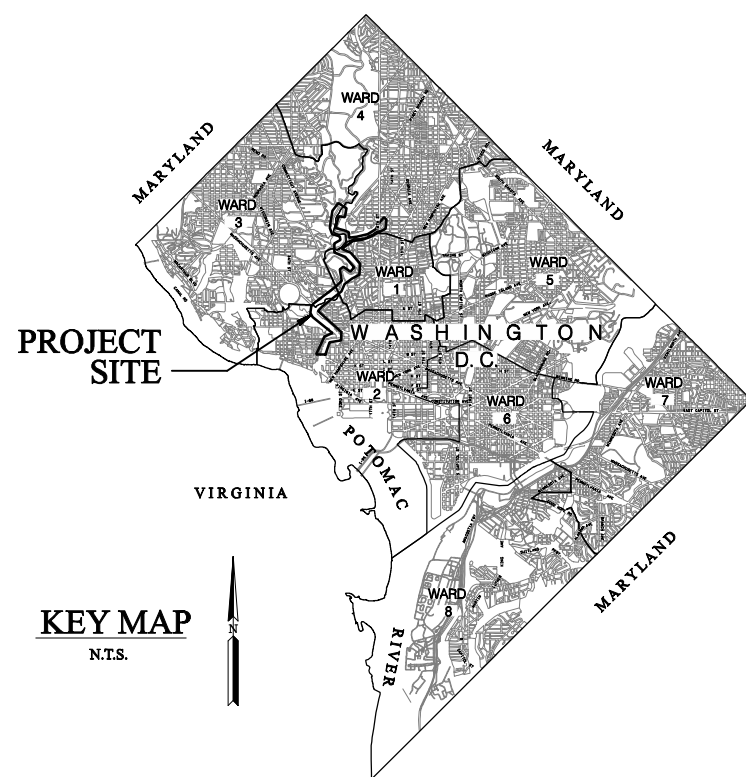


PLANS OF PROPOSED ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION

DCKA-XXXX-X-XXXX

FAP NO. STP-XXXX(XXX)

REHABILITATION = 22,500 FT = 4.26 MILES
NEW CONSTRUCTION = 8,775 FT = 1.66 MILES
LENGTH OF PROJECT = 31,275 FT = 5.92 MILES



KEY MAP
N.T.S.

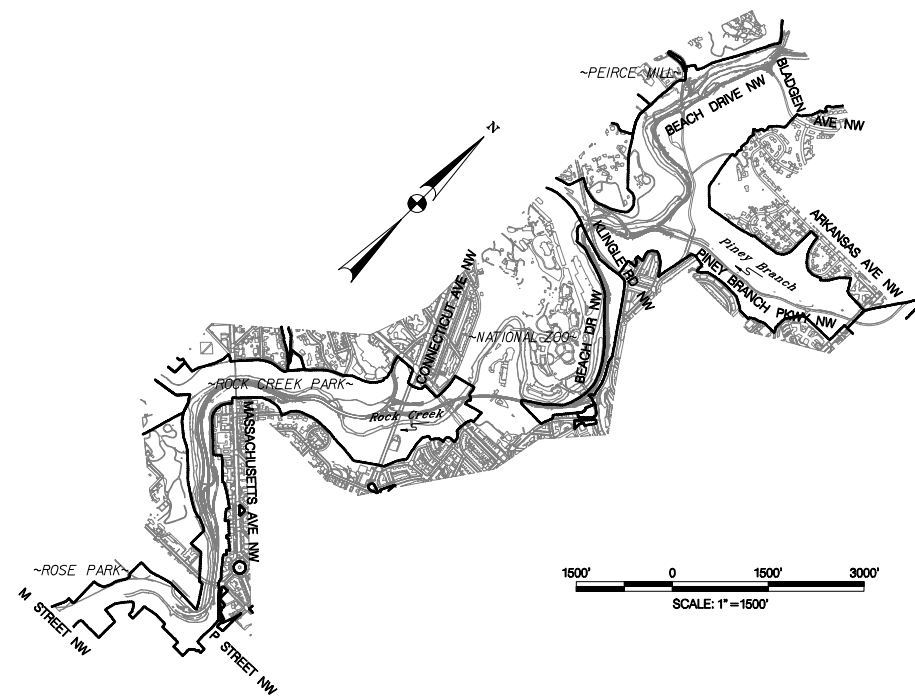
VOLUME I - PLANS
30% DESIGN SUBMITTAL
SEPTEMBER 2013

TRAFFIC DATA			
	BEACH DRIVE	ROCK CRK POTOMAC PARKWAY	PINEY BRANCH PARKWAY
AADT (2010)	23,500	27,900	11,200
AADT (2030)*	42,400	50,390	20,230
DDHV (2030)*	-	-	-
DISTRIBUTION	-	-	-
TRUCKS**	0%	0%	0%
CONTROL OF ACCESS	PARTIAL	FULL	NONE
POSTED SPEED	25 MPH	25 MPH	25 MPH
DESIGN SPEED	30 MPH	30 MPH	30 MPH
FUNCTIONAL CLASS	MINOR ARTERIAL	PRINCIPAL ARTERIAL	MINOR ARTERIAL

DESIGN VEHICLE = SINGLE UNIT TRUCK (SU)

*GROWTH RATE = 3%; K = 10%

**TRUCKS PROHIBITED IN ROCK CREEK PARK.



SCALE: 1" = 1500'

SUMMARY INDEX OF SHEETS		
Sheet No.	Drawing No.	Sheet Name
1		TITLE SHEET - VOLUME I
2	IS-01	INDEX OF SHEETS
3	GN-01	GENERAL NOTES
4	GN-02	STANDARD SYMBOLS AND ABBREVIATIONS
5	SQ-01	SUMMARY OF PAY ITEMS AND QUANTITIES
06-16	GL-01 TO GL-11	GEOMETRIC LAYOUT
17-24	TS-01 TO TS-08	PROPOSED TYPICAL SECTIONS
25	PD-01	PAVEMENT DETAILS
26-37	DE-01 TO DE-12	DETAILS
38	KEY-01	KEY SHEET LEGEND
39-101	PS-01 TO PS-57	PLAN AND PROFILE SHEETS
102-108	BR-01 TO BR-07	STRUCTURE PLANS
109-116	SW-01 TO SW-08	STORM WATER MANAGEMENT PLANS
117-124	BL-01 TO BL-08	BORING LOGS

NOT FOR CONSTRUCTION

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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

DISTRICT OF COLUMBIA
DEPARTMENT OF TRANSPORTATION

RECOMMENDED FOR APPROVAL:

PROGRAM MANAGER _____ DATE _____

APPROVED:

DEPUTY DIRECTOR / CHIEF TRANSPORTATION ENGINEER _____ DATE _____

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		002	124

Sheet No.	Drawing No.	Sheet Name
001		TITLE SHEET - VOLUME I
002	IS-01	INDEX OF SHEETS
003	GN-01	GENERAL NOTES
004	GN-02	STANDARD SYMBOLS AND ABBREVIATIONS
005	SQ-01	SUMMARY OF PAY ITEMS AND QUANTITIES
006	GL-01	GEOMETRIC LAYOUT
007	GL-02	GEOMETRIC LAYOUT
008	GL-03	GEOMETRIC LAYOUT
009	GL-04	GEOMETRIC LAYOUT
010	GL-05	GEOMETRIC LAYOUT
011	GL-06	GEOMETRIC LAYOUT
012	GL-07	GEOMETRIC LAYOUT
013	GL-08	GEOMETRIC LAYOUT
014	GL-09	GEOMETRIC LAYOUT
015	GL-10	GEOMETRIC LAYOUT
016	GL-11	GEOMETRIC LAYOUT
017	TS-01	PROPOSED TYPICAL SECTIONS
018	TS-02	PROPOSED TYPICAL SECTIONS
019	TS-03	PROPOSED TYPICAL SECTIONS
020	TS-04	PROPOSED TYPICAL SECTIONS
021	TS-05	PROPOSED TYPICAL SECTIONS
022	TS-06	PROPOSED TYPICAL SECTIONS
023	TS-07	PROPOSED TYPICAL SECTIONS
024	TS-08	PROPOSED TYPICAL SECTIONS
025	PD-01	PAVEMENT DETAILS
026	DE-01	DETAILS
027	DE-02	DETAILS
028	DE-03	DETAILS
029	DE-04	DETAILS
030	DE-05	DETAILS
031	DE-06	DETAILS
032	DE-07	DETAILS
033	DE-08	DETAILS
034	DE-09	DETAILS
035	DE-10	DETAILS
036	DE-11	DETAILS
037	DE-12	DETAILS
038	KEY-01	KEY SHEET LEGEND
039	PS-01	PLAN AND PROFILE SHEET - STA. 100+00 TO STA. 105+34, AND STA. 2000+00 TO STA. 2005+50
040	PS-01A	PROFILE SHEET - STA. 2000+00 TO STA. 2005+50
041	PS-02	PLAN AND PROFILE SHEET - STA. 2005+50 TO STA. 2011+50
042	PS-03	PLAN AND PROFILE SHEET - STA. 2011+50 TO STA. 2017+50
043	PS-04	PLAN AND PROFILE SHEET - STA. 2017+50 TO STA. 2022+10
044	PS-05	PLAN AND PROFILE SHEET - STA. 3000+00 TO STA. 3006+00
045	PS-06	PLAN AND PROFILE SHEET - STA. 3006+00 TO STA. 3012+00
046	PS-07	PLAN AND PROFILE SHEET - STA. 3012+00 TO STA. 3018+00
047	PS-08	PLAN AND PROFILE SHEET - STA. 3018+00 TO STA. 3024+00
048	PS-09	PLAN AND PROFILE SHEET - STA. 3024+00 TO STA. 3030+00
049	PS-10	PLAN AND PROFILE SHEET - STA. 3030+00 TO STA. 3036+00
050	PS-11	PLAN AND PROFILE SHEET - STA. 3036+00 TO STA. 3041+02
051	PS-12	PLAN AND PROFILE SHEET - STA. 4000+00 TO STA. 4004+00
052	PS-13	PLAN AND PROFILE SHEET - STA. 4004+00 TO STA. 4010+00
053	PS-14	PLAN AND PROFILE SHEET - STA. 4010+00 TO STA. 4016+00
054	PS-15	PLAN AND PROFILE SHEET - STA. 4016+00 TO STA. 4020+00
055	PS-16	PLAN AND PROFILE SHEET - STA. 200+00 TO STA. 202+44, AND STA. 400+00 TO STA. 401+00
056	PS-17	PLAN AND PROFILE SHEET - STA. 112+01 TO STA. 116+50
057	PS-18	PLAN AND PROFILE SHEET - STA. 116+50 TO STA. 121+00
058	PS-19	PLAN AND PROFILE SHEET - STA. 401+00 TO STA. 406+00
059	PS-20	PLAN AND PROFILE SHEET - STA. 406+00 TO STA. 412+00
060	PS-21	PLAN AND PROFILE SHEET - STA. 412+00 TO STA. 418+00
061	PS-22	PLAN AND PROFILE SHEET - STA. 418+00 TO STA. 424+00
062	PS-23	PLAN AND PROFILE SHEET - STA. 424+00 TO STA. 426+46
063	PS-24	PLAN AND PROFILE SHEET - STA. 5000+00 TO STA. 5006+00
064	PS-25	PLAN AND PROFILE SHEET - STA. 5006+00 TO STA. 5012+00, AND 900+00 TO STA. 901+50
065	PS-25A	PLAN AND PROFILE SHEET - STA. 901+50 TO STA. 902+63
066	PS-26	PLAN AND PROFILE SHEET - STA. 5012+00 TO STA. 5018+00
067	PS-27	PLAN AND PROFILE SHEET - STA. 5018+00 TO STA. 5024+00
068	PS-28	PLAN AND PROFILE SHEET - STA. 5024+00 TO STA. 5030+00
069	PS-29	PLAN AND PROFILE SHEET - STA. 5030+00 TO STA. 5036+00
070	PS-30	PLAN AND PROFILE SHEET - STA. 5036+00 TO STA. 5038+20
071	PS-31	PLAN AND PROFILE SHEET - STA. 6000+00 TO STA. 6006+00
072	PS-32	PLAN AND PROFILE SHEET - STA. 6006+00 TO STA. 6012+00
073	PS-33	PLAN AND PROFILE SHEET - STA. 6012+00 TO STA. 6017+00, AND STA. 511+00 TO STA. 515+69
074	PS-33A	PROFILE SHEET - STA. 511+00 TO STA. 515+69
075	PS-34	PLAN AND PROFILE SHEET - STA. 501+06 TO STA. 505+00
076	PS-35	PLAN AND PROFILE SHEET - STA. 505+00 TO STA. 511+00
077	PS-36	PLAN AND PROFILE SHEET - STA. 7000+00 TO STA. 7004+00
078	PS-37	PLAN AND PROFILE SHEET - STA. 7004+00 TO STA. 7010+00
079	PS-38	PLAN AND PROFILE SHEET - STA. 7010+00 TO STA. 7015+40
080	PS-39	PLAN AND PROFILE SHEET - STA. 8000+00 TO STA. 8005+00
081	PS-40	PLAN AND PROFILE SHEET - STA. 8005+00 TO STA. 8010+00
082	PS-41	PLAN AND PROFILE SHEET - STA. 8010+00 TO STA. 8015+00, AND STA. 600+00 TO STA. 603+50
083	PS-41A	PROFILE SHEET - STA. 600+00 TO STA. 603+50
084	PS-42	PLAN AND PROFILE SHEET - STA. 8015+00 TO STA. 8019+00, AND STA. 603+50 TO STA. 607+50
085	PS-42A	PROFILE SHEET - STA. 603+50 TO STA. 607+50

Sheet No.	Drawing No.	Sheet Name
086	PS-43	PLAN AND PROFILE SHEET - STA. 8019+00 TO STA. 8020+77, AND STA. 607+50 TO STA. 612+00
087	PS-43A	PROFILE SHEET - STA. 607+50 TO STA. 612+00
088	PS-44	PLAN AND PROFILE SHEET - STA. 612+00 TO STA. 616+48
089	PS-45	PLAN AND PROFILE SHEET - STA. 9001+00 TO STA. 9006+00
090	PS-46	PLAN AND PROFILE SHEET - STA. 9006+00 TO STA. 9012+00
091	PS-47	PLAN AND PROFILE SHEET - STA. 9012+00 TO STA. 9018+00
092	PS-48	PLAN AND PROFILE SHEET - STA. 9018+00 TO STA. 9024+00
093	PS-49	PLAN AND PROFILE SHEET - STA. 9024+00 TO STA. 9030+00
094	PS-50	PLAN AND PROFILE SHEET - STA. 9030+00 TO STA. 9036+00
095	PS-51	PLAN AND PROFILE SHEET - STA. 9036+00 TO STA. 9041+00
096	PS-52	PLAN AND PROFILE SHEET - STA. 9041+00 TO STA. 9045+00
097	PS-53	PLAN AND PROFILE SHEET - STA. 9045+00 TO STA. 9048+59
098	PS-54	PLAN AND PROFILE SHEET - STA. 1000+00 TO STA. 1006+00
099	PS-55	PLAN AND PROFILE SHEET - STA. 1006+00 TO STA. 1012+00
100	PS-56	PLAN AND PROFILE SHEET - STA. 1012+00 TO STA. 1017+00
101	PS-57	PLAN AND PROFILE SHEET - STA. 1017+00 TO STA. 1020+25
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103	BR-02	STRUCTURAL GENERAL NOTES
104	BR-03	TYPICAL SECTION
105	BR-04	ABUTMENT A - PLAN AND ELEVATION
106	BR-05	ABUTMENT B - PLAN AND ELEVATION
107	BR-06	PIER 1 - PLAN AND ELEVATION
108	BR-07	PIER 2 - PLAN AND ELEVATION
109	SW-01	STORM WATER MANAGEMENT NOTES
110	SW-02	STORM WATER MANAGEMENT NOTES
111	SW-03	STORM WATER MANAGEMENT NOTES
112	SW-04	STORM WATER MANAGEMENT DETAILS
113	SW-05	STORM WATER MANAGEMENT PLAN
114	SW-06	STORM WATER MANAGEMENT PLAN
115	SW-07	STORM WATER MANAGEMENT PLAN
116	SW-08	STORM WATER MANAGEMENT PLAN
117	BL-01	BORING LOGS
118	BL-02	BORING LOGS
119	BL-03	BORING LOGS
120	BL-04	BORING LOGS
121	BL-05	BORING LOGS
122	BL-06	BORING LOGS
123	BL-07	BORING LOGS
124	BL-08	BORING LOGS

*REFER TO VOLUME II FOR CROSS SECTIONS

NOT FOR CONSTRUCTION



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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

DATE: 09-13-2013	SCALE: N.T.S.	IS-01
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		
ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL		PROJECT ENG _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR _____
INDEX OF SHEETS		DIVISION CHIEF _____
		DATE _____
		FILE _____
		SHEET 002 OF 124

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		004	124

	EXISTING STORM, SANITARY, OR COMBINED SEWER MANHOLE
	EXISTING SANITARY SEWER MANHOLE
	EXISTING ELECTRIC MANHOLE
	EXISTING TELEPHONE MANHOLE
	EXISTING MANHOLE UNKNOWN
	EXISTING WATER MANHOLE
	EXISTING SANITARY SEWER CLEANOUT
	EXISTING WATER METER
	EXISTING WATER VALVE OR CUT-OFF
	EXISTING WATER TEE
	EXISTING GAS VALVE OR CUT-OFF
	PROPOSED SANITARY SEWER, STORM DRAIN, WATER MANHOLE
	PROPOSED CLEANOUT
	EXISTING FIRE HYDRANT
	PROPOSED FIRE HYDRANT
	PROPOSED WATER VALVE, GATE VALVE
	EXISTING SANITARY SEWER, COMBINED SEWER, STORM DRAIN, WATER LINE LESS THAN 24"
	EXISTING SANITARY SEWER, COMBINED SEWER, STORM DRAIN, WATER LINE 24" OR GREATER
	EXISTING UNDERGROUND GAS, TELEPHONE, ELECTRIC LINE
	EXISTING UNDERGROUND TELEPHONE (RECORD)
	EXISTING UNDERGROUND WATER (RECORD)
	EXISTING UNDERGROUND GAS (RECORD)
	EXISTING UNDERGROUND ELECTRIC (RECORD)
	EXISTING SANITARY SEWER, COMBINED SEWER, STORM DRAIN, WATER LINE TO BE ABANDONED
	EXISTING UNDERGROUND GAS, TELEPHONE, ELECTRIC LINE TO BE ABANDONED
	EXISTING SANITARY SEWER, COMBINED SEWER, STORM DRAIN, WATER LINE TO BE REMOVED
	EXISTING UNDERDRAIN
	PROPOSED STORM DRAIN LINE WITH DIRECTION OF FLOW, LESS THAN 24"
	PROPOSED STORM DRAIN LINE WITH DIRECTION OF FLOW, 24" OR GREATER
	PROPOSED UNDERDRAIN W/ FLOW DIRECTION
	EXISTING HEDGEROW
	EXISTING BUSH OR SHRUB
	EXISTING DECIDUOUS TREE, EVERGREEN TREE
	EXISTING TREE STUMP
	EXISTING TREE TO BE REMOVED
	EXISTING TREE WITH TREE PROTECTION
	PROPOSED TREE
	EXISTING WALL OR COPING
	PROPOSED WALL OR COPING
	EXISTING ELECTRIC VAULT
	EXISTING LIGHT POLE
	PROPOSED LIGHT POLE
	EXISTING SIGNAL POLE
	PROPOSED SIGNAL POLE
	EXISTING TRAFFIC SIGNAL CONTROL CABINET
	PROPOSED SIGNAL POLE
	EXISTING BOLLARD OR POST
	PROPOSED BOLLARD OR POST
	PROPOSED TRAFFIC FLOW
	EXISTING TRAFFIC FLOW

	LIMIT OF DISTURBANCE
	NATIONAL PARK BOUNDARY
	100-YEAR FLOOD PLAIN (FEMA)
	LIMIT OF SURVEY
	PROPOSED CENTER LINE
	PROPOSED BASE LINE & STATIONING
	LIMIT OF CUT
	LIMIT OF FILL
	RIGHT-OF-WAY LINE
	BUILDING RESTRICTION LINE
	TOP OF BANK
	TOE OF BANK
	LOT LINE
	PROPOSED FENCE (Indicate Type)
	EXISTING FENCE (Indicate Type)
	WOODEN FENCE (Indicate type)
	EXISTING SPOT ELEVATION (AND/OR FEATURE)
	PROPOSED SPOT ELEVATION (AND/OR FEATURE)
	BENCH MARK WITH NUMBER
	TRIANGULATION OR COORDINATION STATION
	LOCATION OF SOIL BORING WITH NUMBER
	LOCATION OF TEST PIT WITH NUMBER
	TRIANGULATION OR CONTROL POINT
	REVISION WITH NUMBER
	BREAK IN GRADE
	STATION EQUATION
	EXISTING PARKING METER
	EXISTING FIRE ALARM BOX
	EXISTING POLICE CALL BOX
	EXISTING TRASH/WASTE CAN
	EXISTING GUY WIRE ANCHOR
	EXISTING SIGN & POST
	PROPOSED SIGN & POST
	MAIL BOX
	EXISTING WHEELCHAIR/BICYCLE RAMP
	PROPOSED WHEELCHAIR/BICYCLE RAMP
	EXISTING SINGLE CATCH BASIN
	EXISTING DOUBLE CATCH BASIN
	EXISTING TRIPLE CATCH BASIN
	EXISTING SINGLE CATCH BASIN WITH DOUBLE THROAT ELONGATION
	EXISTING SINGLE CATCH BASIN WITH TRIPLE THROAT ELONGATION
	EXISTING SINGLE CATCH BASIN WITH GRATE
	EXISTING DOUBLE CATCH BASIN WITH GRATE
	PROPOSED SINGLE CATCH BASIN
	PROPOSED DOUBLE CATCH BASIN
	PROPOSED TRIPLE CATCH BASIN
	PROPOSED SINGLE CATCH BASIN WITH GRATE
	PROPOSED DOUBLE CATCH BASIN WITH GRATE
	PROPOSED SINGLE THROAT WATER QUALITY BASIN
	PROPOSED DUAL THROAT WATER QUALITY BASIN
	PROPOSED DUAL THROAT WATER QUALITY BASIN W/ GRATE

ABUT. AC /A.C. ALT. ANG./- APPROX. @ AGG. AVE. ASPH	ABUTMENT ASPHALTIC CONCRETE ALTERNATE ANGLE APPROXIMATE AT AGGREGATE AVENUE ASPHALT	MAT'L. MED. MIN. MAX. MH./M.H. M.P.H./MPH MUTCD	MATERIAL MEDIAN MINIMUM MAXIMUM MANHOLE MILES PER HOUR MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
R B.C. BOSW BOT. BRG./BRGS.	BASELINE BOTTOM OF CURB BACK OF SIDEWALK BOTTOM BEARING /BEARINGS	NA N.B.L. N.E./N.E. N.F. N.I.C. NO./# N.T.S. N.W./N.W.	NOT APPLICABLE NORTH BOUND LANES NORTHEAST NEAR FACE NOT IN CONTRACT NUMBER NOT TO SCALE, NO SCALE NORTHWEST
C.B./CB CC CI C.J./CONST. JT. CLR. CL C	CATCH BASIN CENTER TO CENTER CAST IRON CONSTRUCTION JOINT CLEARANCE, CLEAR COVER CLASS CENTERLINE	OH O.C. O.D.	OVERHEAD ON CENTER OVERDRAIN
COL. COMP. CONC. CONSTR./CONST. CONT. CONTR. C.S.	COLUMN COMPRESSION CONCRETE CONSTRUCTION CONTINUOUS CONTROL, CONTRACTION CURVE TO SPIRAL	R PC P.C.C. PC PCC PCCP PFE PFL PGE PGL PLA PI POC POT PR PRC PROP. PT PTCE PTCL PVC PVC PVT PVI	PLATE POINT OF CROWN POINT OF COMPOUND CURVATURE POINT OF CURVE PORTLAND CEMENT CONCRETE PORTLAND CEMENT CONCRETE PIPE PROPOSED FLOW ELEVATION PROPOSED FLOWLINE PROFILE GRADE ELEVATION PROFILE GRADE LINE PLASTIC POINT OF INTERSECTION POINT ON CURVE POINT ON TANGENT POINT OF RETURN POINT OF REVERSE CURVATURE PROPOSED POINT OF TANGENCY PROPOSED TOP OF CURB ELEVATION PROPOSED TOP OF CURB LINE POLYVINYL CHLORIDE POINT OF VERTICAL CURVATURE POINT OF VERTICAL TANGENCY POINT OF VERTICAL INTERSECTION
D DIA./ ^o DIAPH. DIM.	DEGREE OF CURVATURE DIAMETER DIAPHRAGM DIMENSION	RCP RCP/R	REINFORCED CONCRETE PIPE REINFORCED CONCRETE PIPE WITH RUBBER GASKET RADIUS REQUIRED REFERENCE REINFORCEMENT RIGHT ROADWAY RIGHT-OF-WAY
EF. EA. EFE EFL EGE EGL E.J./EXP. JT. EL./ELEV. ELECT. ENT. EP EQ. ETCE ETCL EX./EXIST. EXP. EXT.	EACH FACE EACH EXISTING FLOW ELEVATION EXISTING FLOWLINE EXISTING GROUND ELEVATION EXISTING GROUND LINE EXPANSION JOINT ELEVATION ELECTRICAL ENTRANCE EDGE OF PAVEMENT EQUAL EXISTING TOP OF CURB ELEVATION EXISTING TOP OF CURB LINE EXISTING EXPANSION EXTERIOR	RAD./R REQD./REQ'D. REF. REINF. RT/RT. RDWY. R.O.W./RW	REQUIRED REFERENCE REINFORCEMENT RIGHT ROADWAY RIGHT-OF-WAY
F.F. F.H. FT. FIN. FX. FL	FAR FACE FIRE HYDRANT FEET FINISHED FIXED FLOW /FLOWLINE	SAN. S.B.L. S.C. S.D. SECT. S.E. SEW. SHT./SHTS. SIM. SL SPA. SQ. SHLDR S.T. ST. STA. STD. STD 4W STM. STRUCT. S	SANITARY SOUTH BOUND LANES SPIRAL TO CURVE STORM DRAIN SECTION SOUTH-EAST SEWER SHEET/SHEETS SIMILAR STREET LIGHT SPACES, SPACING SQUARE/SQUARES SHOULDER SPIRAL TO TANGENT STREET STATION STANDARD STANDARD 4-WAY ELECTRICAL DUCT BANK STORM STRUCTURAL SURVEY LINE SOUTHWEST SIDEWALK SYMMETRICAL
GALV. GA. G.V.	GALVANIZED GAUGE GAS VALVE		
H2W H6W HC H.S. HT. HORIZHOR	HORIZONTAL 2-WAY ELECTRICAL DUCT BANK HORIZONTAL 8-WAY ELECTRICAL DUCT BANK HANDICAPPED HIGH STRENGTH HEIGHT HORIZONTAL		
IN. INT. INV. INTERM.	INCH INTERIOR INVERT INTERMEDIATE		
L3 LC LGN LOD LP LP LT./LT. LONG. LVC	LEVEL 3 COMMUNICATIONS LENGTH OF CURVE, LENGTH LOOKING GLASS NETWORKS LIMIT OF DISTURBANCE LIGHT POLE LOW PRESSURE LEFT LONGITUDINAL LENGTH OF VERTICAL CURVE		

T T.C./TOC TCP TEMP. THRU T.P. T.S. TS TYP./TYP T.W.	TANGENT TOP OF CURB TRAFFIC CONTROL PLAN TEMPORARY THROUGH TURNING POINT TANGENT TO SPIRAL TRAFFIC SIGNAL TYPICAL TOP OF WALL
U.D. UG/UG UGE UGT U.N.O.	UNDERDRAIN UNDERGROUND UNDERGROUND ELECTRICAL LINE UNDERGROUND TELEPHONE LINE UNLESS NOTED OTHERWISE
V2W V8W VAR. VERT. VZN	VERTICAL 2-WAY ELECTRICAL DUCT BANK VERTICAL 8-WAY ELECTRICAL DUCT BANK VARIES VERTICAL VERTIZON
WRPD W WO W.W.F./WWF	WRAPPED STEEL WITH WITHOUT WELDED WIRE FABRIC

Thursday, September 12, 2013 AT 03:29 PM
us:\2026031049\012 Rock Creek Park Trail\Trans\cadd\sheet_files\pGN-N002_r.ctb.dgn

NOT FOR CONSTRUCTION



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

DATE: 09-13-2013	SCALE: N.T.S.	GN-02
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		
ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
STANDARD SYMBOLS AND ABBREVIATIONS		DIVISION CHIEF _____ DATE _____ FILE _____ SHEET 004 OF 124

ITEM NO.	ALT CODE	QUANTITY	UNIT	DESCRIPTION	SUPPLEMENTAL DESCRIPTION
PAVEMENT REHABILITATION					
OPTION 1 - RESURFACE/WIDEN					
209002	#REF!		CY	AGGREGATE BASE COURSE	FOR WIDENING
202002	#REF!		CY	COMMON EXCAVATION	FOR WIDENING
402XXX	#REF!		TON	SUPERPAVE SURFACE COURSE, 12.5 MM	
403002	#REF!		SY	TACK COAT	
606002	#REF!		SY	PAVEMENT PROFILING (MILLING)	MILLING 1.5" TO 3" ASPHALT SURFACE
OPTION 2 - RECLAMATION/WIDEN					
209XXX	#REF!		SY	RECLAIMED BASE COURSE	
209002	870		CY	AGGREGATE BASE COURSE	SUPPLEMENTAL AGGREGATE, 25% OF BASE
402XXX	#REF!		TON	SUPERPAVE SURFACE COURSE, 12.5 MM	
403002	#REF!		SY	TACK COAT	
TRAIL IMPROVEMENTS					
202002		5,150	CY	COMMON EXCAVATION	
202004	#REF!		CY	HARD SURFACE PAVEMENT EXCAVATION	EXISTING PAVEMENT REMOVAL - 7.5" DEPTH
204002		2,350	CY	EMBANKMENT FILL	SALVAGED MATERIAL (25% OF COMMON EXCAVATION)
204004		1,450	CY	BORROW EMBANKMENT FILL	FURNISHED MATERIAL FROM OFF-SITE
204991		900	CY	EMBANKMENT FILL SPECIAL ITEM - LF	MECHANICALLY PLACED ROCK EMBANKMENT, E252-01
204991		500	CY	EMBANKMENT FILL SPECIAL ITEM - LF	RIP-RAP REVETMENT
209002	#REF!		CY	AGGREGATE BASE COURSE	FOR NEW TRAIL CONSTRUCTION
402XXX	#REF!		TON	SUPERPAVE SURFACE COURSE, 12.5 MM	FOR NEW TRAIL CONSTRUCTION
403002	#REF!		SY	TACK COAT	FOR NEW TRAIL CONSTRUCTION
600009	#REF!	3,180	LF	INCIDENTAL CONSTRUCTION SPECIAL ITEM - LF -	TIMBER EDGE SUPPORT
602008		3	CY	PCC STEPS	AT HARVARD STREET CONNECTION
605991		3	EACH	STEEL GUIDERAILS SPECIAL ITEM - EACH	ET 617-61, TIMBER GUIDERAIL END SECTION (30' EACH)
605995		264	LF	MISC. GUIDERAILS SPECIAL ITEM - LF -	617-60, TIMBER GUIDERAIL
607991		292	LF	MISC. FENCING SPECIAL ITEM - LF -	HANDRAIL AT HARVARD ST
607991		46	LF	MISC. FENCING SPECIAL ITEM - LF -	E 619-09, CHAIN LINK FENCE
607991		4,552	LF	MISC. FENCING SPECIAL ITEM - LF -	42" POST-AND-RAIL SAFETY FENCE
608991		630	SY	SIDEWALKS & DRIVEWAY SPECIAL ITEM - SY -	E615-01, CONCRETE SIDEWALK
609072		20	LF	FURNISH AND SET 8"x12" GRANITE CIRCULAR CURB, RADIUS 10-100FT.	
609200		25	EACH	PCC WHEELCHAIR/BICYCLE RAMP - NEW CONSTRUCTION	
609500		20	LF	BRICK GUTTER	
609993		1,650	LF	CURB, GUTTER, & PAVED FLUME SPECIAL ITEM - LF -	E 609-01, CONCRETE CURB AND GUTTER
612002		1	LS	MOBILIZATION	5% OF CONSTRUCTION COST
MAINTENANCE OF TRAFFIC					
616001		1	LS	MAINTENANCE OF HIGHWAY TRAFFIC	FOR TRAIL WORK ADJACENT TO ROADWAY
616991		1	LS	TRAFFIC CONTROL SPECIAL ITEM - LS -	PEDESTRIAN/CYCLIST TRAFFIC CONTROL
SIGNING AND MARKING					
616994		2,500	LF	TRAFFIC CONTROL SPECIAL ITEM - LF -	STRIPING - ANY TYPE
620994		1,000	SF	TRAFFIC SIGNING SPECIAL ITEM - SF -	WARNING/GUIDE SIGNAGE
DRAINAGE IMPROVEMENTS					
300XXX		14	EA	STONE MASONRY HEADWALL	
300XXX		8	EA	END SECTION (ELLIPTICAL OR ROUND)	
300XXX		222	SY	RIP-RAP FOR OUTFALL/CHANNEL PROTECTION	E251-01, E251-02 LOOSE RIP-RAP
309002		20	VLF	SEWER MANHOLE ON SEWER 48 INCH AND LESS DIA.	
310002		1	EA	STANDARD BASIN	
310992		3	EA	CATCH BASINS SPECIAL ITEM - EACH -	E604-04, INLET TYPE 5B
314XXX		645	LF	REINFORCED CONCRETE PIPE FOR CULVERT (ELLIPTICAL OR ROUND)	
610014		120	SY	EROSION CONTROL MATTING	E629-03, PIPE INLET STABILIZATION
609993		3	EA	CURB, GUTTER, & PAVED FLUME SPECIAL ITEM - LF -	DDOT STD. DWG. 609.11, CURB OPENING FOR COMBINATION CURB & GUTTER
STORMWATER MANAGEMENT IMPROVEMENTS					
300XXX		1	LS	LID SITE 130 / ARKANSAS AVENUE NW & PINEY BRANCH PARKWAY	AS PER ROCK CREEK WATERSHED IMPLEMENTATION PLAN
300XXX		1	LS	LID SITE 354 / PORTER STREET NW & KLINGLE ROAD NW	AS PER ROCK CREEK WATERSHED IMPLEMENTATION PLAN
EROSION AND SEDIMENT CONTROL					
628XXX		32,000	LF	SILT FENCE	50% LOD LENGTH X 1.15 FOR STOCKPILE PROTECTION
628XXX		13,900	LF	WATER DIVERSION FENCE	25% LOD LENGTH
628XXX		200	TON	STABILIZED CONSTRUCTION ENTRANCE	10@20 TON EACH
628XXX		1,670	LB	TEMPORARY SEEDING	0.03 X SY OF DISTURBANCE
628XXX		64,000	SY	TEMPORARY MULCHING	1.15 X SY OF DISTURBANCE
628XXX		50	TON	STONE OUTLET STRUCTURE / STONE CHECK DAM	
UTILITY RELOCATIONS					
42" COMBINED SEWER RELOCATION					
309992		10	VLF	SEWER MANHOLE SPECIAL ITEM - VLF -	DC WATER STANDARD DETAIL S-20.03 PRECAST CONCRETE MANHOLE FOR NEW 33" THRU 48" DIAMETER SEWERS
309992		20	VLF	SEWER MANHOLE SPECIAL ITEM - VLF -	DC WATER STANDARD DETAIL S-22.13 CAST IN PLACE CONCRETE MANHOLE BASE ON EXISTING 3-FOOT AND 4-FOOT DIAMETER CONCRETE MASONRY SEWERS
314020		82	LF	PCC PIPE, CLASS III, GASKET, 42 INCH	

ITEM NO.	ALT CODE	QUANTITY	UNIT	DESCRIPTION	SUPPLEMENTAL DESCRIPTION
STRUCTURAL IMPROVEMENTS					
BEACH DRIVE NW PEDESTRIAN STRUCTURE					
700XXX		1,090	CY	CLASS III EXCAVATION	
700XXX		730	SF	TEMPORARY SHEET PILING	
700XXX		1	LS	TEMPORARY INTERMEDIATE SUPPORT SYSTEM	
700XXX		360	CY	SUBSTRUCTURE CONCRETE FOR BRIDGE	
700XXX		8	CY	TIE-IN WALLS BETWEEN BRIDGES	
700XXX		220	LF	PRECAST CONCRETE CURVED U-BEAM (ARCH 90° TO 30°)	
700XXX		80	CY	REINFORCE CONCRETE DECK	
700XXX		8	EACH	POT BEARINGS	
700XXX		440	LF	STEEL TUBE 54" HIGH BRIDGE RAIL	
700XXX		570	CY	SELECT BACKFILL	
700XXX		30	SY	CLASS II RIPRAP	
EXISTING STRUCTURE MODIFICATIONS					
700XXX		1,680	SF	BEACH DRIVE NW STRUCTURE OVER ROCK CREEK AT BLAGDEN AVE NW - CONCRETE DECK MODS FOR ADA COMPLIANCE	
700XXX		975	SF	BLAGDEN AVE NW STRUCTURE OVER BROAD BRANCH AT BLAGDEN AVE - CONCRETE DECK MODS FOR ADA COMPLIANCE	
700XXX		200	SF	BEACH DRIVE NW STRUCTURE OVER PINEY BRANCH - CONCRETE DECK MODS FOR ADA COMPLIANCE	
700XXX		500	SF	PINEY BRANCH RETAINING WALL TEMPORARY REPAIR - SOLDIER PILE AND LAGGING	
LANDSCAPING					
201002		1	LS	CLEAR AND GRUB	
610XXX	#REF!		SY	PLACE 6" FURNISHED TOPSOIL	25% X (LOD AREA LESS PR. IMPERVIOUS AREA)
610XXX	#REF!		SY	PLACE 6" SALVAGED TOPSOIL	75% X (LOD AREA LESS PR. IMPERVIOUS AREA)
610991	#REF!		SY	TURF ESTABLISHMENT SPECIAL ITEM - SY -	100% X (LOD AREA LESS PR. IMPERVIOUS AREA)
611XXX		500	SY	BRUSH REMOVAL	FOR SIGHT DISTANCE IMPROVEMENTS
611XXX		100	EA	REMOVE TREE AND STUMP (OVER 6")	EXACT NUMBER TO BE DETERMINED
611XXX		2,300	LF	TREE ROOT PRUNING	PERFORMED 9 - 18 MONTHS AHEAD OF CONSTRUCTION
611XXX		100	EA	TREE TRIMMING	
611XXX		1	LS	TREE PROTECTION	METHODS TO BE DETERMINED
611XXX		13,450	SY	WOOD CHIP MULCHING IN CRZ	
611XXX		1	LS	TREE PLANTING	PLANTING AREAS TO BE DETERMINED
611XXX		4,000	SF	UD/SWM PLANTING	
611XXX		10	EA	MISCELLANEOUS AMENITIES	BENCHES, TRASH CANS, BIKE RACKS
ENGINEERING AND CONSTRUCTION SERVICES					
108002		1	LS	PROGRESS PHOTOGRAPHS	
108004		1	LS	AS-BUILT DRAWINGS	
624002		1	LS	ENGINEERS FIELD FACILITIES	
625002		1	LS	FIELD LAYOUT	1% - 2% CONSTRUCTION COST

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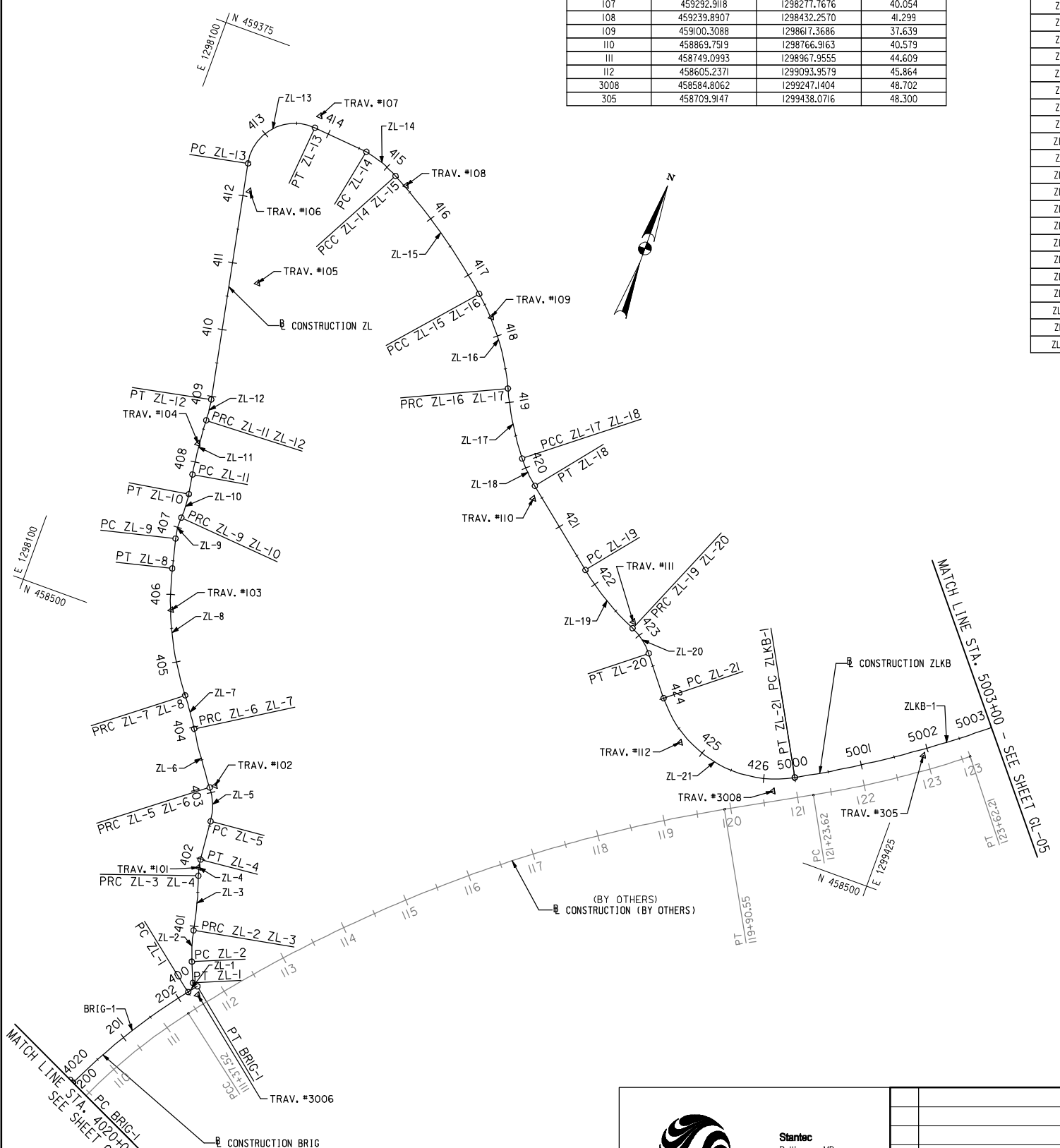
NO.	DESCRIPTION	NAME	DATE
REVISIONS			

DATE: 09-13-2013	SCALE: N.T.S.	SQ-01
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		
ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
SUMMARY OF QUANTITIES		DIVISION CHIEF _____ DATE _____ FILE _____ SHEET 005 OF 124

TRAVERSE POINTS			
POINT NO.	NORTH	EAST	ELEVATION
3006	45801.4740	1298552.0331	41.064
101	45818.6806	1298488.5453	38.644
102	45831.04676	1298470.3871	40.914
103	458532.3067	1298320.6922	37.439
104	458776.6830	1298274.0322	35.634
105	459029.2860	1298275.4286	43.179
106	459152.9000	1298218.0453	36.599
107	459292.918	1298277.7676	40.054
108	459239.8907	1298432.2570	41.299
109	459100.3088	1298617.3686	37.639
110	458869.7519	1298766.9163	40.579
111	458749.0993	1298967.9555	44.609
112	458605.2371	1299093.9579	45.864
3008	458584.8062	1299247.1404	48.702
305	458709.9147	1299438.0716	48.300

CURVE DATA							
CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH	EXTERNAL	LONG CHORD.
BRIG-1	14° 12' 23.4370" RT	6° 05' 43.0645"	940.0000'	117.1374'	233.0734'	7.2704'	232.4768'
TUNL-1	12° 21' 04.3690" RT	8° 11' 06.4009"	700.0000'	75.7428'	150.8985'	4.0859'	150.6065'
TUNL-2	2° 16' 53.363" RT	2° 43' 42.336"	2,100.0000'	41.8149'	83.6187'	0.4163'	83.6131'
TUNL-3	21° 32' 20.692" RT	2° 43' 42.336"	2,100.0000'	399.4368'	789.4432'	37.6505'	784.8029'
TUNL-4	9° 06' 48.6382" LT	3° 49' 10.9811"	1,500.0000'	119.5477'	238.5912'	4.7563'	238.3397'
ZL-1	61° 09' 38.7195" LT	381° 58' 18.7083"	15.0000'	8.8640'	16.0118'	2.4233'	15.2624'
ZL-2	12° 01' 54.2521" RT	26° 02' 36.7301"	220.0000'	23.845'	46.9186'	1.283'	46.1137'
ZL-3	8° 28' 14.3698" LT	10° 25' 02.6920"	550.0000'	40.7305'	81.3125'	1.5061'	81.2385'
ZL-4	13° 51' 57.2143" RT	57° 17' 44.8070"	100.0000'	12.1597'	24.2005'	0.7366'	24.1415'
ZL-5	32° 14' 51.017" LT	63° 39' 43.1181"	90.0000'	26.0176'	50.6543'	3.6852'	49.9884'
ZL-6	5° 23' 52.6407" RT	6° 01' 52.0849"	950.0000'	44.7839'	89.5015'	1.0550'	89.4684'
ZL-7	5° 39' 26.857" LT	11° 01' 06.3088"	520.0000'	25.6928'	51.3438'	0.6343'	51.3229'
ZL-8	24° 08' 58.1494" RT	12° 43' 56.6236"	450.0000'	96.2642'	189.6696'	10.813'	188.2688'
ZL-9	18° 21' 37.4827" RT	57° 17' 44.8062"	100.0000'	16.1610'	32.0450'	1.2975'	31.9080'
ZL-10	14° 03' 06.1394" LT	38° 11' 49.8373"	150.0000'	18.4864'	36.7873'	1.1349'	36.6952'
ZL-11	7° 16' 27.2317" RT	8° 48' 53.0471"	650.0000'	41.3173'	82.5235'	1.3118'	82.4681'
ZL-12	9° 00' 14.4744" LT	28° 38' 52.4032"	200.0000'	15.7474'	31.4300'	0.6190'	31.3976'
ZL-13	106° 11' 51.9687" RT	81° 51' 04.0089"	70.0000'	93.2275'	129.7451'	46.5820'	111.9542'
ZL-14	16° 57' 55.4425" RT	30° 09' 20.4243"	190.0000'	28.3370'	56.2594'	2.1015'	56.0541'
ZL-15	12° 45' 14.5891" RT	5° 58' 05.9173"	960.0000'	107.2915'	213.6962'	5.9769'	213.2553'
ZL-16	24° 07' 15.0956" RT	16° 22' 12.8019"	350.0000'	74.7807'	147.3459'	7.8996'	146.2603'
ZL-17	13° 26' 59.3375" LT	12° 43' 56.6235"	450.0000'	53.0612'	105.6346'	3.1175'	105.3922'
ZL-18	12° 42' 41.0197" LT	28° 38' 52.4035"	200.0000'	22.2770'	44.3711'	1.2368'	44.2802'
ZL-19	15° 53' 53.4297" LT	14° 19' 26.2016"	400.0000'	55.8539'	110.9902'	3.8808'	110.6345'
ZL-20	28° 26' 13.9357" LT	63° 39' 43.1178"	90.0000'	22.8101'	44.6811'	2.8458'	44.2237'
ZL-21	80° 36' 13.9357" LT	32° 44' 25.6036"	175.0000'	148.4210'	246.1905'	54.4641'	226.3854'
ZLKB-1	16° 01' 34.6330" LT	3° 28' 20.8973"	1,650.0000'	232.2784'	461.5239'	16.2693'	460.0209'

CURVE	POINT NO.	STATION	NORTH	EAST	BEARING
BRIG-1	PC	200+00.0000	457,826.7886	1,298,423.2698	N 25° 09' 40.8862'
	PI	201+17.1374	457,932.8114	1,298,473.0730	
	PT	202+33.0734	458,023.3691	1,298,547.3729	N 39° 22' 04.3231'
TUNL-1	PC	300+00.0000	457,835.6385	1,298,458.9225	N 24° 37' 28.3907'
	PI	300+75.7428	457,904.4931	1,298,490.4823	
	PT	301+50.8985	457,965.0033	1,298,536.0399	N 36° 58' 32.7597'
TUNL-2	PC	300+00.0000	457,835.6385	1,298,458.9225	N 24° 37' 28.3907'
	PI	300+75.7428	457,904.4931	1,298,490.4823	
	PT	301+50.8985	457,965.0033	1,298,536.0399	N 36° 58' 32.7597'
TUNL-3	PC	300+00.0000	457,835.6385	1,298,458.9225	N 24° 37' 28.3907'
	PI	300+75.7428	457,904.4931	1,298,490.4823	
	PT	301+50.8985	457,965.0033	1,298,536.0399	N 36° 58' 32.7597'
TUNL-4	PC	300+00.0000	457,835.6385	1,298,458.9225	N 24° 37' 28.3907'
	PI	300+75.7428	457,904.4931	1,298,490.4823	
	PT	301+50.8985	457,965.0033	1,298,536.0399	N 36° 58' 32.7597'
ZL-1	PC	400+00.0000	458,010.6941	1,298,537.1558	N 38° 22' 31.9051'
	PI	400+08.8640	458,017.6431	1,298,542.6587	
	PT	400+16.0118	458,025.8154	1,298,539.2259	N 22° 47' 06.8145'
ZL-2	PC	400+00.0000	458,010.6941	1,298,537.1558	N 38° 22' 31.9051'
	PI	400+08.8640	458,017.6431	1,298,542.6587	
	PT	400+16.0118	458,025.8154	1,298,539.2259	N 22° 47' 06.8145'
ZL-3	PC	400+00.0000	458,010.6941	1,298,537.1558	N 38° 22' 31.9051'
	PI	400+08.8640	458,017.6431	1,298,542.6587	
	PT	400+16.0118	458,025.8154	1,298,539.2259	N 22° 47' 06.8145'
ZL-4	PC	400+00.0000	458,010.6941	1,298,537.1558	N 38° 22' 31.9051'
	PI	400+08.8640	458,017.6431	1,298,542.6587	
	PT	400+16.0118	458,025.8154	1,298,539.2259	N 22° 47' 06.8145'
ZL-5	PC	402+57.3808	458,258.9875	1,298,482.1877	N 5° 21' 29.7179" W
	PI	402+83.3985	458,284.8914	1,298,479.7581	
	PT	403+08.0352	458,305.5033	1,298,463.8815	N 37° 36' 20.8285"



CURVE	POINT NO.	STATION	NORTH	EAST	BEARING
ZL-6	PRC	403+08.0352	458,305.5033	1,298,463.8815	N 37° 36' 20.8285"
	PI	403+52.8190	458,340.9824	1,298,436.5532	
	CC	403+97.5366	458,378.8749	1,298,412.6838	N 32° 12' 28.1879"
ZL-7	PRC	403+97.5366	458,378.8749	1,298,412.6838	N 32° 12' 28.1879"
	PI	404+23.2294	458,400.6141	1,298,398.9897	
	CC	404+48.8804	458,420.8975	1,298,383.2194	N 37° 51' 54.3735"
ZL-8	PRC	404+48.8804	458,420.8975	1,298,383.2194	N 37° 51' 54.3735"
	PI	405+45.1446	458,496.8940	1,298,324.1320	
	PT	406+38.5501	458,590.4131	1,298,301.3075	N 13° 42' 56.2241"
ZL-9	PRC	406+38.5501	458,590.4131	1,298,301.3075	N 13° 42' 56.2241"
	PI	406+82.9871	458,633.5831	1,298,290.7713	
	CC	406+99.1481	458,649.2832	1,298,266.9395	
ZL-10	PRC	407+15.0321	458,665.3912	1,298,288.2482	N 4° 38' 41.2586" E
	PI	407+51.0321	458,665.3912	1,298,288.2482	N 4° 38' 41.2586" E
	CC	407+51.0321	458,665.3912	1,298,288.2482	N 4° 38' 41.2586" E
ZL-11	PRC	408+63.8341	458,813.1996	1,298,273.6128	N 2° 07' 57.6491" W
	PI	408+63.8341	458,813.1996	1,298,273.6128	N 2° 07' 57.6491" W
	CC	408+95.2640	458,844.3869	1,298,269.9852	N 11° 08' 12.1235"
ZL-12	PRC	408+95.2640	458,844.3869	1,298,269.9852	N 11° 08' 12.1235"
	PI	408+95.2640	458,844.3869	1,298,269.9852	N 11° 08' 12.1235"
	CC	408+95.2640	458,844.3869	1,298,269.9852	N 11° 08' 12.1235"
ZL-13	PRC	408+95.2640	458,844.3869	1,298,269.9852	N 11° 08' 12.1235"
	PI	408+95.2640	458,844.3869	1,298,269.9852	N 11° 08' 12.1235"
	CC	408+95.2640	458,844.3869	1,298,269.9852	N 11° 08' 12.1235"
ZL-14	PRC	409+00.0000	457,932.8114	1,298,473.0730	
	PI	409+00.0000	457,932.8114	1,298,473.0730	
	CC	409+00.0000	457,932.8114	1,298,473.0730	
ZL-15	PRC	409+00.0000	457,932.8114	1,298,473.0730	
	PI	409+00.0000	457,932.8114	1,298,473.0730	
	CC	409+00.0000	457,932.8114	1,298,473.0730	
ZL-16	PRC	409+00.0000	457,932.8114	1,298,473.0730	
	PI	409+00.0000	457,932.8114	1,298,473.0730	
	CC	409+00.0000	457,932.8114	1,298,473.0730	
ZL-17	PRC	409+00.0000	457,932.8114	1,298,473.0730	
	PI	409+00.0000	457,932.8114	1,298,473.0730	
	CC	409+00.0000	457,932.8114	1,298,473.0730	
ZL-18	PRC	409+00.0000	457,932.8114	1,298,473.0730	
	PI	409+00.0000	457,932.8114	1,298,473.0730	
	CC	409+00.0000	457,932.8114	1,298,473.0730	
ZL-19	PRC	409+00.0000	457,932.8114	1,298,473.0730	
	PI	409+00.0000	457,932.8114	1,298,473.0730	
	CC	409+00.0000	457,932.8114	1,298,473.0730	
ZL-20	PRC	409+00.0000	457,932.8114	1,298,473.0730	
	PI	409+00.0000	457,932.8114	1,298,473.0730	
	CC	409+00.0000	457,932.8114	1,298,473.0730	
ZL-21	PRC	409+00.0000	457,932.8114	1,298,473.0730	
	PI	409+00.0000	457,932.8114	1,298,473.0730	
	CC	409+00.0000	457,932.8114	1,298,473.0730	

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HORIZONTAL SCALE: 1"=100'



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D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

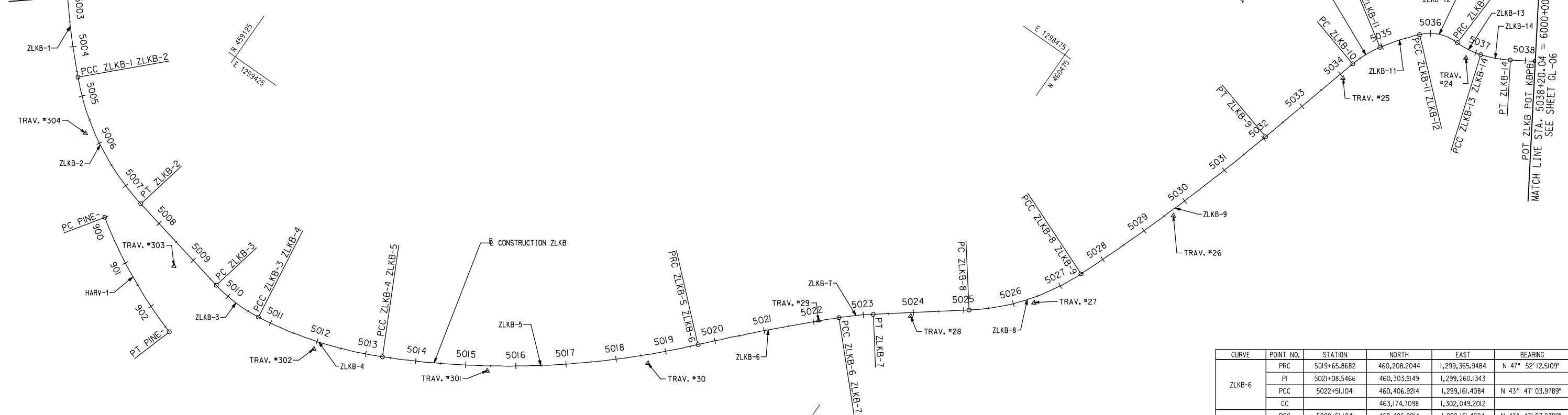
NO.	DESCRIPTION	NAME	DATE

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

DATE: 09-13-2013 SCALE: 1" = 100' GL-04
DIVISION CHIEF _____
DATE _____
FILE _____
SHEET 009 OF 124

MATCH LINE STA. 5003+00 - SEE SHEET GL-04



TRAVERSE POINTS

POINT NO.	NORTH	EAST	ELEVATION
304	458968.2260	1299720.0957	52.010
303	459263.9025	1299835.7468	51.320
302	459586.9778	1299811.3869	55.150
301	459894.3339	1299649.524	59.830
30	46047.6547	1299453.6129	67.101
29	460377.0628	1299189.3327	59.800
28	460522.3637	1299076.8911	52.190
27	460708.0102	1298914.1097	49.770
26	460835.5847	1298613.3646	50.770
25	460955.4376	1298195.3463	49.790
24	461132.2124	1298022.0594	53.900

CURVE DATA

CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH	EXTERNAL	LONG CHORD
HARV-1	16° 25' 50.2000° LT	6° 15' 20.8199°	915.8850'	132.2308'	262.6467'	9.4962'	261.7477'
ZLKB-1	16° 01' 34.6330° LT	3° 28' 20.8973°	1,650.0000'	232.2784'	461.5239'	16.2693'	460.0209'
ZLKB-2	32° 39' 35.5210° LT	11° 27' 32.9613°	500.0000'	146.4938'	285.0111'	21.0187'	281.6818'
ZLKB-3	20° 10' 04.3157° LT	19° 05' 54.9354°	300.0000'	53.3513'	105.5987'	4.7070'	105.0544'
ZLKB-4	18° 37' 49.2242° LT	7° 09' 43.1008°	800.0000'	131.2225'	260.1286'	10.6907'	258.9842'
ZLKB-5	21° 18' 37.1001° LT	3° 22' 13.2239°	1,700.0000'	319.8404'	632.2895'	29.8260'	628.6513'
ZLKB-6	4° 05' 08.5320° RT	1° 25' 56.6202°	4,000.0000'	142.6784'	285.2359'	2.5438'	285.1755'
ZLKB-7	6° 15' 57.2810° RT	9° 05' 40.4454°	630.0000'	34.4830'	68.8973'	0.9430'	68.8630'
ZLKB-8	30° 49' 42.6526° RT	13° 01' 18.3651°	440.0000'	121.3140'	236.7460'	16.4177'	233.9005'
ZLKB-9	6° 33' 38.7008° LT	1° 25' 56.6202°	4,000.0000'	229.2639'	458.0268'	6.5649'	457.7766'
ZLKB-10	17° 21' 08.8423° RT	27° 17' 01.3363°	210.0000'	32.0454'	63.6001'	2.4309'	63.3573'
ZLKB-11	9° 19' 31.0362° RT	11° 14' 04.0797°	510.0000'	41.5949'	83.0061'	1.6934'	82.9145'
ZLKB-12	50° 35' 22.4135° RT	63° 39' 43.1172°	90.0000'	42.5328'	79.4659'	9.5441'	76.9096'
ZLKB-13	20° 07' 05.8176° LT	38° 11' 49.8718°	150.0000'	26.6087'	52.6695'	2.3418'	52.3994'
ZLKB-14	14° 15' 05.7566° LT	23° 52' 23.6688°	240.0000'	30.0033'	59.6970'	1.8681'	59.5432'

CURVE	POINT NO.	STATION	NORTH	EAST	BEARING
HARV-1	PC	900+00.0000	459,095.7611	1,299,835.4952	N 33° 48' 48.6577'
	PI	901+32.2308	459,205.6255	1,299,909.0806	
	PT	902+62.6467	459,331.8172	1,299,948.5853	N 17° 22' 58.4576'
	CC		459,605.4434	1,299,074.5292	
ZLKB-1	PC	5000+00.0000	458,614.6046	1,299,270.6575	N 60° 55' 28.2831'
	PI	5002+32.2784	458,727.4829	1,299,473.6642	
	PCC	5004+61.5239	458,892.0200	1,299,637.6179	N 44° 53' 53.6501'
	CC		460,056.6721	1,298,468.8213	
ZLKB-2	PCC	5004+61.5239	458,892.0200	1,299,637.6179	N 44° 53' 53.6501'
	PI	5006+08.0178	458,995.7906	1,299,741.0205	
	PT	5007+46.5350	459,138.9552	1,299,772.0742	N 12° 14' 18.1290'
	CC		459,244.9449	1,299,283.4371	
ZLKB-3	PC	5009+67.8514	459,355.2419	1,299,818.9886	N 12° 14' 18.1290'
	PI	5010+21.2027	459,407.3808	1,299,830.2980	
	PCC	5010+73.4501	459,460.2221	1,299,822.9380	N 7° 55' 46.1866' W
	CC		459,418.8357	1,299,525.8064	
ZLKB-4	PCC	5010+73.4501	459,460.2221	1,299,822.9380	N 7° 55' 46.1866' W
	PI	5012+04.6726	459,590.1899	1,299,804.8352	
	PCC	5013+33.5787	459,707.5643	1,299,746.1614	N 26° 33' 35.4108'
	CC		459,349.8585	1,299,030.5811	
ZLKB-5	PCC	5013+33.5787	459,707.5643	1,299,746.1614	N 26° 33' 35.4108'
	PI	5016+53.4191	459,993.6512	1,299,603.1505	
	PRC	5019+65.8682	460,208.2044	1,299,365.9484	N 47° 52' 12.5109'
	CC		458,947.4395	1,298,225.5660	

CURVE	POINT NO.	STATION	NORTH	EAST	BEARING
ZLKB-6	PRC	5019+65.8682	460,208.2044	1,299,365.9484	N 47° 52' 12.5109'
	PI	5021+08.5466	460,303.9149	1,299,260.1343	
	PCC	5022+51.1041	460,406.9214	1,299,161.4084	N 43° 47' 03.9789'
	CC		463,174.7098	1,302,049.2012	
ZLKB-7	PCC	5022+51.1041	460,406.9214	1,299,161.4084	N 43° 47' 03.9789'
	PI	5022+85.5871	460,431.8163	1,299,137.5480	
	PT	5023+20.0014	460,459.1667	1,299,116.5472	N 37° 31' 06.6979'
	CC		460,842.8480	1,299,616.2358	
ZLKB-8	PC	5025+10.6865	460,610.4099	1,299,000.4166	N 37° 31' 06.6979'
	PI	5026+32.0005	460,706.6308	1,298,926.5342	
	PCC	5027+47.4325	460,751.3937	1,298,813.7806	N 68° 20' 49.3506'
	CC		460,342.4420	1,298,651.4277	
ZLKB-9	PCC	5027+47.4325	460,751.3937	1,298,813.7806	N 68° 20' 49.3506'
	PI	5029+76.6964	460,835.9884	1,298,600.6945	
	PT	5032+05.4593	460,895.6826	1,298,379.3383	N 74° 54' 28.0514'
	CC		457,033.6504	1,297,337.8455	
ZLKB-10	PC	5034+31.6844	460,954.5856	1,298,160.9161	N 74° 54' 28.0514'
	PI	5034+63.7298	460,962.9293	1,298,129.9760	
	PCC	5034+95.2845	460,980.1212	1,298,102.9326	N 57° 33' 19.2091'
	CC		461,157.3423	1,298,215.5944	
ZLKB-11	PCC	5034+95.2845	460,980.1212	1,298,102.9326	N 57° 33' 19.2091'
	PI	5035+36.8794	461,002.4362	1,298,067.8303	
	PCC	5035+78.2906	461,030.1443	1,298,036.8078	N 48° 13' 48.1729'
	CC		461,410.5153	1,298,376.5399	
ZLKB-12	PCC	5035+78.2906	461,030.1443	1,298,036.8078	N 48° 13' 48.1729'
	PI	5036+20.8233	461,058.4771	1,298,005.0857	
	PRC	5036+57.7565	461,100.9738	1,298,006.8368	N 2° 21' 34.2405' E
	CC		461,097.2686	1,298,096.7605	
ZLKB-13	PRC	5036+57.7565	461,100.9738	1,298,006.8368	N 2° 21' 34.2405' E
	PI	5036+84.3652	461,127.5600	1,298,007.9323	
	PCC	5037+10.4260	461,152.9008	1,297,999.8163	N 17° 45' 31.5771'
	CC		461,107.1493	1,297,856.9640	
ZLKB-14	PCC	5037+10.4260	461,152.9008	1,297,999.8163	N 17° 45' 31.5771'
	PI	5037+40.4293	461,181.4744	1,297,990.6650	
	PT	5037+70.1230	461,206.9158	1,297,974.7611	N 32° 00' 37.3336'
	CC		461,079.6384	1,297,771.2525	
	POT	5038+20.0427	461,249.2454	1,297,948.3000	

Thursday, September 12, 2013 AT 03:30 PM
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REVISIONS

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

DATE: 09-13-2013

SCALE: 1" = 100'

GL-05

DIVISION CHIEF

GEOMETRIC LAYOUT SHEET

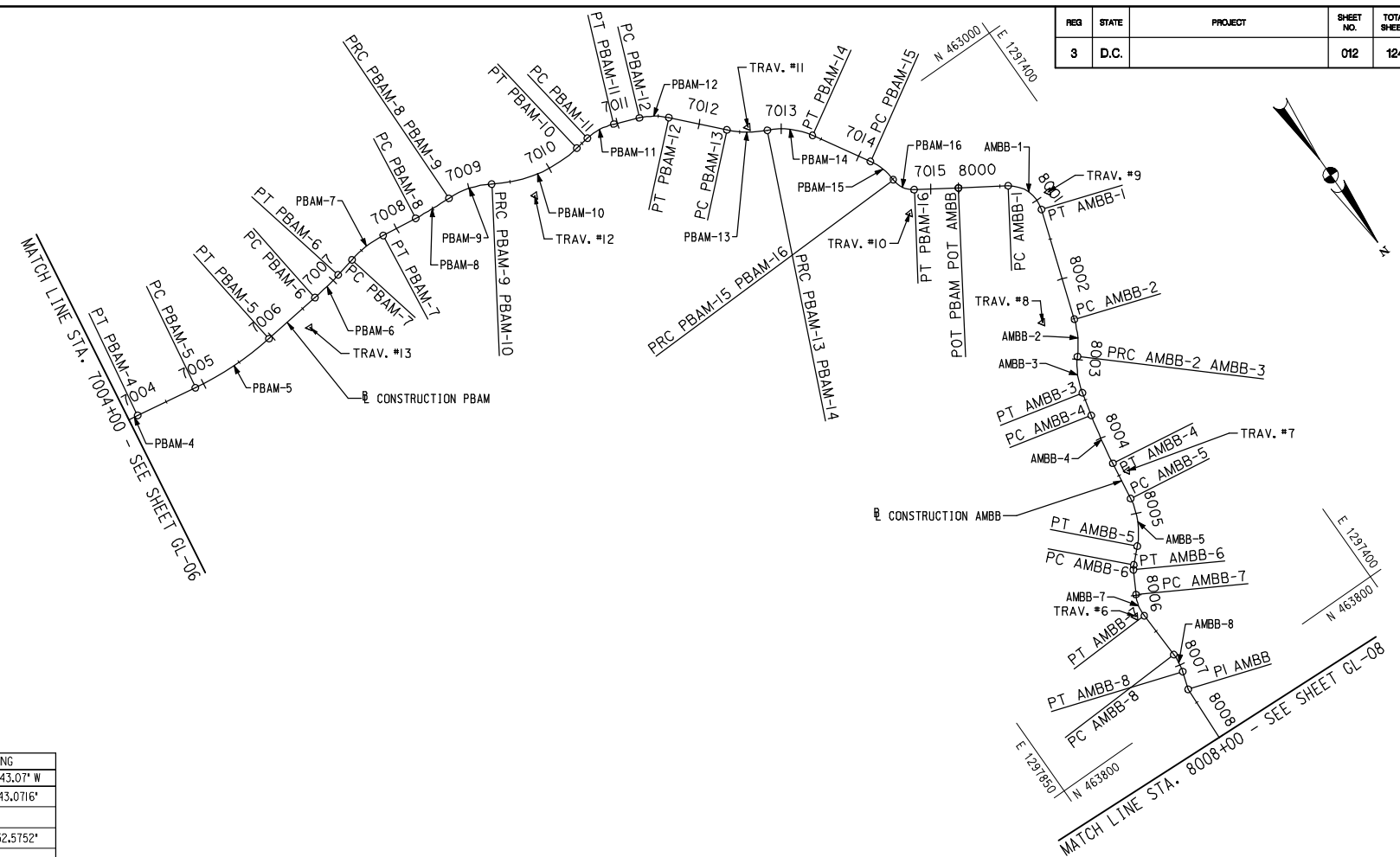
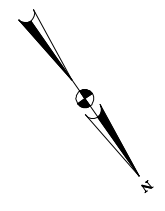
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SHEET 010 OF 124

CURVE	POINT NO.	STATION	NORTH	EAST	BEARING
KBPB-1	POT	6000+00.0000	461,249.2454	1,297,948.3000	N 32° 00' 37.334" W
	PC	6000+48.8242	461,290.6459	1,297,922.4196	N 32° 00' 37.3352"
	PI	6000+69.7900	461,308.4239	1,297,911.3062	
	PT	6000+83.7170	461,322.4642	1,297,926.8766	N 47° 57' 29.4428"
KBPB-2	CC	6000+90.0422	461,303.8978	1,297,943.6184	
	PC	6001+40.5310	461,360.5110	1,297,969.0699	N 47° 57' 29.4428"
	PI	6001+65.5232	461,377.2476	1,297,987.6305	
	PT	6001+90.2577	461,398.0369	1,298,001.5018	N 33° 42' 45.546"
KBPB-3	CC	6001+90.2577	461,398.0369	1,298,001.5018	N 33° 42' 45.546"
	PC	6002+54.8312	461,451.7513	1,298,037.3418	
	PI	6002+71.9686	461,489.3399	1,298,089.9900	N 54° 37' 08.7687"
	PT	6003+17.9686	461,203.7776	1,298,292.6433	
KBPB-4	CC	6003+17.9686	461,203.7776	1,298,292.6433	
	PC	6003+39.2268	461,501.3907	1,298,107.2407	
	PI	6003+59.8545	461,507.0030	1,298,127.6410	N 74° 37' 05.3840"
	PT	6003+59.8545	461,507.0030	1,298,127.6410	N 74° 37' 05.3840"
KBPB-5	CC	6003+59.8545	461,507.0030	1,298,127.6410	N 74° 37' 05.3840"
	PC	6005+46.2916	461,548.4980	1,298,278.4745	N 74° 37' 05.3840"
	PI	6005+71.1766	461,563.0562	1,298,331.3934	
	PT	6006+18.1099	461,614.0926	1,298,351.5837	N 21° 35' 02.4105"
KBPB-6	CC	6006+18.1099	461,614.0926	1,298,351.5837	N 21° 35' 02.4105"
	PC	6006+43.7455	461,637.9306	1,298,361.0141	
	PI	6006+68.6219	461,655.8344	1,298,379.3618	N 45° 42' 06.0393"
	PT	6006+68.6219	461,655.8344	1,298,379.3618	N 45° 42' 06.0393"
KBPB-7	CC	6006+68.6219	461,655.8344	1,298,379.3618	N 45° 42' 06.0393"
	PC	6006+93.6739	461,673.3306	1,298,397.2919	
	PI	6007+18.4663	461,694.7086	1,298,410.3526	N 31° 25' 20.3057"
	PT	6007+18.4663	461,694.7086	1,298,410.3526	N 31° 25' 20.3057"
KBPB-8	CC	6007+18.4663	461,694.7086	1,298,410.3526	N 31° 25' 20.3057"
	PC	6007+59.0728	461,729.3601	1,298,431.5224	N 31° 25' 20.3057"
	PI	6007+87.0055	461,753.1965	1,298,446.0849	
	PT	6008+14.5792	461,780.1106	1,298,453.5595	N 15° 31' 15.1551"
KBPB-9	CC	6008+14.5792	461,780.1106	1,298,453.5595	N 15° 31' 15.1551"
	PC	6008+60.8131	461,824.6585	1,298,465.9312	
	PI	6008+85.3307	461,851.3907	1,298,503.6533	N 54° 40' 34.6228"
	PT	6009+03.4200	461,745.3240	1,298,578.8187	
KBPB-10	CC	6009+03.4200	461,745.3240	1,298,578.8187	
	PC	6009+03.4200	461,851.3907	1,298,503.6533	N 54° 40' 34.6228"
	PI	6009+48.4991	461,877.4553	1,298,540.4333	
	PT	6009+93.1114	461,911.7840	1,298,569.6509	N 40° 24' 05.2648"
KBPB-11	CC	6009+93.1114	461,911.7840	1,298,569.6509	N 40° 24' 05.2648"
	PC	6010+23.8523	461,935.1939	1,298,589.5752	N 40° 24' 05.2648"
	PI	6010+70.1452	461,970.4469	1,298,619.5795	
	PT	6011+14.2463	462,016.0455	1,298,627.5669	N 9° 56' 08.8170" E
KBPB-12	CC	6011+14.2463	462,016.0455	1,298,627.5669	N 9° 56' 08.8170" E
	PC	6012+55.8614	462,155.5367	1,298,652.0014	N 9° 56' 08.8170" E
	PI	6013+01.0283	462,200.0262	1,298,659.7945	
	PT	6013+45.8800	462,245.1712	1,298,658.3865	N 1° 47' 11.0585" W
KBPB-13	CC	6013+45.8800	462,245.1712	1,298,658.3865	N 1° 47' 11.0585" W
	PC	6013+45.8800	462,245.1712	1,298,658.3865	N 1° 47' 11.0585" W
	PI	6013+81.2034	462,280.4775	1,298,657.2854	
	PT	6014+16.0623	462,314.0966	1,298,646.4455	N 17° 52' 15.6243"
KBPB-14	CC	6014+16.0623	462,314.0966	1,298,646.4455	N 17° 52' 15.6243"
	PC	6014+37.3655	462,334.3720	1,298,639.9080	
	PI	6014+58.2934	462,355.6735	1,298,640.838	N 0° 44' 30.5648" E
	PT	6014+58.2934	462,355.6735	1,298,640.838	N 0° 44' 30.5648" E
KBPB-15	CC	6014+58.2934	462,355.6735	1,298,640.838	N 0° 44' 30.5648" E
	PC	6015+11.0815	462,408.4571	1,298,640.8673	N 0° 44' 30.5648" E
	PI	6015+24.8322	462,422.2066	1,298,641.0453	
	PT	6015+38.5607	462,435.9074	1,298,639.8753	N 4° 52' 52.2458" W
KBPB-16	CC	6015+38.5607	462,435.9074	1,298,639.8753	N 4° 52' 52.2458" W
	PC	6015+92.8969	462,490.0465	1,298,635.2518	N 4° 52' 52.2458" W
	PI	6016+15.8446	462,512.9110	1,298,633.2992	
	PT	6016+35.9245	462,529.2996	1,298,649.3620	N 44° 25' 29.1482"
KBPB-17	CC	6016+35.9245	462,529.2996	1,298,649.3620	N 44° 25' 29.1482"
	PC	6016+56.6481	462,544.0998	1,298,663.8680	N 44° 25' 29.1481"
	PI	6016+65.7614	462,550.6083	1,298,670.2470	
	PT	6016+73.7504	462,550.0648	1,298,679.3441	S 86° 34' 51.5555"
-	CC	6017+69.6659	462,544.3446	1,298,775.0890	
	POT	6017+69.6659	462,544.3446	1,298,775.0890	

CURVE	POINT NO.	STATION	NORTH	EAST	BEARING
PORT-1	POT	500+00.0000	461,506.2057	1,298,124.8733	N 19° 24' 15.63" W
	PC	501+05.5854	461,605.7936	1,298,089.7944	N 74° 53' 30.53" E
	PI	502+47.6253	461,642.8152	1,298,226.9247	
	PT	503+43.6620	461,634.0738	1,298,324.6114	S 84° 53' 11.6165"
PORT-2	CC	503+43.6620	461,634.0738	1,298,324.6114	S 84° 53' 11.6165"
	PC	503+51.890	461,633.4030	1,298,332.1084	
	PI	503+58.7089	461,632.1705	1,298,339.5339	S 80° 34' 33.3843"
	PT	503+58.7089	461,632.1705	1,298,339.5339	S 80° 34' 33.3843"
PORT-3	CC	503+58.7089	461,632.1705	1,298,339.5339	S 80° 34' 33.3843"
	PC	505+37.3902	461,602.9132	1,298,515.8036	S 80° 34' 33.3843"
	PI	505+43.7349	461,601.8743	1,298,522.0627	
	PT	505+49.8688	461,603.6349	1,298,528.1582	N 73° 53' 21.2935"
PORT-4	CC	505+49.8688	461,603.6349	1,298,528.1582	N 73° 53' 21.2935"
	PC	505+70.1725	461,609.2691	1,298,547.6644	
	PI	505+95.9038	461,616.4094	1,298,572.3852	
	PT	506+19.6995	461,637.3466	1,298,587.3428	N 35° 32' 31.4729"
PORT-5	CC	506+19.6995	461,637.3466	1,298,587.3428	N 35° 32' 31.4729"
	PC	506+44.9870	461,657.9228	1,298,602.0424	
	PI	506+70.1230	461,680.9002	1,298,612.6016	N 24° 40' 51.5181"
	PT	506+70.1230	461,680.9002	1,298,612.6016	N 24° 40' 51.5181"
PORT-6	CC	506+70.1230	461,680.9002	1,298,612.6016	N 24° 40' 51.5181"
	PC	508+29.6870	461,825.8875	1,298,679.2300	N 24° 40' 51.5181"
	PI	508+39.1509	461,834.4869	1,298,683.1818	
	PT	508+48.5485	461,842.016	1,298,688.8016	N 36° 25' 39.1893"
PORT-7	CC	508+48.5485	461,842.016	1,298,688.8016	N 36° 25' 39.1893"
	PC	508+58.4535	461,850.8759	1,298,695.2770	
	PI	508+70.2849	461,860.7616	1,298,699.8678	N 24° 53' 45.7160"
	PT	508+70.2849	461,860.7616	1,298,699.8678	N 24° 53' 45.7160"
PORT-8	CC	508+70.2849	461,860.7616	1,298,699.8678	N 24° 53' 45.7160"
	PC	509+26.4871	461,911.7471	1,298,723.5274	N 24° 53' 45.7160"
	PI	511+30.0952	462,096.4346	1,298,809.2409	
	PT	513+22.1492	462,297.8367	1,298,779.3500	N 8° 26' 30.7228" W
PORT-9	CC	513+22.1492	462,297.8367	1,298,779.3500	N 8° 26' 30.7228" W
	PC	513+22.1492	462,297.8367	1,298,779.3500	N 8° 26' 30.7228" W
	PI	514+03.9004	462,378.7022	1,298,767.3485	
	PT	514+85.1383	462,460.3642	1,298,771.1646	N 2° 40' 31.7969" E
PBAM-1	CC	514+85.1383	462,460.3642	1,298,771.1646	N 2° 40' 31.7969" E
	POT	515+69.2103	462,544.3446	1,298,775.0890	
	POT	7000+00.0000	462,544.3446	1,298,775.0890	N 2° 59' 03.09" W
	PC	7000+52.2355	462,596.8731	1,298,766.2186	N 2° 59' 03.0889" W
PBAM-2	PI	7000+84.1079	462,628.7023	1,298,764.6193	
	PCC	7001+15.3922	462,658.2477	1,298,752.6645	N 22° 01' 46.3188"
	CC	7001+15.3922	462,658.2477	1,298,752.6645	N 22° 01' 46.3188"
	PC	7001+59.4448	462,694.1950	1,298,727.8200	N 47° 16' 11.4049"
PBAM-3	CC	7001+59.4448	462,694.1950	1,298,727.8200	N 47° 16' 11.4049"
	PC	7002+31.7731	462,743.2731	1,298,674.6908	N 47° 16' 11.4049"
	PI	7002+82.3879	462,777.6176	1,298,637.5113	
	PT	7003+28.9088	462,780.2461	1,298,586.9648	N 87° 01' 23.4108"
PBAM-4	CC	7003+28.9088	462,780.2461	1,298,586.9648	N 87° 01' 23.4108"
	PC	7003+70.3761	462,782.3996	1,298,545.5534	
	PI	7004+11.7568	462,789.1662	1,298,504.6420	N 80° 36' 30.6918"
	PT	7004+11.7568	462,789.1662	1,298,504.6420	N 80° 36' 30.6918"
PINE-1	CC	7004+11.7568	462,789.1662	1,298,504.6420	N 80° 36' 30.6918"
	POT	9000+00.0000	461,996.4024	1,298,756.1442	N 87° 50' 14.29" E
	PC	9000+44.365	461,998.0680	1,298,800.2492	S 20° 51' 16.1779"
	PI	9000+60.7120	461,982.5784	1,298,806.1501	
-	PT	9000+70.4102	461,988.0857	1,298,821.7839	N 70° 35' 39.2335"
	CC	9000+70.4102	461,988.0857	1,298,821.7839	N 70° 35' 39.2335"
	PC	9000+70.4102	461,988.0857	1,298,821.7839	N 70° 35' 39.2335"
	PT	9000+70.4102	461,988.0857	1,298,821.7839	N 70° 35' 39.2335"

TRAVERSE POINTS			
POINT NO.	NORTH	EAST	ELEVATION
23	461312.8308	1297913.9848	55.460
22	461455.1806	1298067.2722	61.090
21	461556.0179	1298309.1780	49.470
20	461670.3100	1298403.5459	53.620
19	461811.2781	1298474.9525	65.400
18	461987.4015	1298629.957	52.910
17	462330.5873	1298651.6911	56.390
16	462575.4773	1298648.6344	55.340
15	462636.6711	1298794.2441	59.590
14	462776.4337	1298639.2258	57.380

CURVE	DELTA	Dc	CURVE DATA				
			RADIUS	TANGENT	LENGTH	EXTERNAL	LONG CHORD
KBPB-1	79° 58' 06.7780" RT	229' 10' 59.2250"	25.0000'	20.9658'	34.8929'	7.6277'	32.1289'
KBPB-2	14° 14' 44.2882" LT	28° 38' 52.4031"	200.0000'	24.9922'	49.7266'	1.5555'	49.5987'
KBPB-3	20° 54' 23.6142" RT	16° 22' 12.8017"	350.0000'	64.5735'	127.7109'	5.9069'	127.0036'
KBPB-4	19° 59' 56.6153" RT	47° 44' 47.3392"	120.0000'	21.582'	41.8859'	1.8510'	41.6736'



CURVE	POINT NO.	STATION	NORTH	EAST	BEARING
PBAM-4	PRC	7003+28.9088	462,780.2461	1,298,586.9648	N 87° 01' 23.4108"
	PI	7003+70.3761	462,782.3996	1,298,545.5534	
	PT	7004+11.7568	462,789.1662	1,298,504.6420	N 80° 36' 30.6918"
	CC		463,519.2476	1,298,625.3945	
PBAM-5	PC	7004+88.9880	462,801.7687	1,298,428.4459	N 80° 36' 30.6918"
	PI	7005+42.7713	462,810.5450	1,298,375.3835	
	PT	7005+95.8448	462,804.2513	1,298,321.9698	S 83° 16' 47.2368"
	CC		462,426.8621	1,298,366.4378	
PBAM-6	PC	7006+70.1796	462,795.5525	1,298,248.1457	S 83° 16' 47.2368"
	PI	7006+89.6716	462,793.2716	1,298,228.7876	
	PT	7007+09.1285	462,788.9959	1,298,209.7704	S 77° 19' 43.8222"
	CC		462,423.1290	1,298,292.0286	
PBAM-7	PC	7007+33.8155	462,783.5807	1,298,185.6846	S 77° 19' 43.8222"
	PI	7007+58.0682	462,778.2607	1,298,162.0226	
	PT	7007+81.8443	462,781.2100	1,298,137.9498	N 83° 00' 54.3007"
	CC		462,920.1710	1,298,154.9749	
PBAM-8	PC	7008+26.0620	462,786.5873	1,298,094.0603	N 83° 00' 54.3007"
	PI	7008+49.4352	462,789.4296	1,298,070.8606	
	PRC	7008+72.7645	462,789.7982	1,298,047.4903	N 89° 05' 47.6408"
	CC		462,349.8529	1,298,040.5527	
PBAM-9	PRC	7008+72.7645	462,789.7982	1,298,047.4903	N 89° 05' 47.6408"
	PI	7009+01.0061	462,790.2435	1,298,019.2522	
	PRC	7009+27.8141	462,805.3946	1,297,995.4187	N 57° 33' 19.6226"
	CC		462,889.7857	1,298,049.0670	
PBAM-10	PRC	7009+27.8141	462,805.3946	1,297,995.4187	N 57° 33' 19.6226"
	PI	7009+87.0765	462,837.1879	1,297,945.4065	
	PT	7010+41.3254	462,828.7316	1,297,886.7506	S 81° 47' 46.6810"
	CC		462,670.3689	1,297,909.5814	
PBAM-11	PC	7010+58.9849	462,826.2117	1,297,869.2718	S 81° 47' 46.6810"
	PI	7010+77.6109	462,823.5539	1,297,850.8364	
	PT	7010+96.3932	462,830.4096	1,297,833.5181	N 68° 24' 11.9303"
	CC		462,895.4954	1,297,859.2833	
PBAM-12	PC	7011+27.0883	462,842.0758	1,297,804.0481	N 68° 24' 11.9303"
	PI	7011+45.1515	462,848.7244	1,297,787.2530	
	PT	7011+62.6188	462,861.9443	1,297,774.9441	N 42° 57' 22.5044"
	CC		462,916.4595	1,297,833.4940	
PBAM-13	PC	7012+34.2899	462,914.3985	1,297,726.1045	N 42° 57' 22.5044"
	PI	7012+59.0960	462,932.5535	1,297,709.2007	
	PRC	7012+83.2130	462,942.5182	1,297,686.4840	N 66° 18' 55.0862"
	CC		462,832.6258	1,297,638.2796	
PBAM-14	PC	7012+83.2130	462,942.5182	1,297,686.4840	N 66° 18' 55.0862"
	PI	7013+12.0346	462,954.0959	1,297,660.0901	
	PT	7013+38.9987	462,978.8522	1,297,645.3318	N 30° 48' 03.7760"
	CC		463,024.9375	1,297,722.6373	
PBAM-15	PC	7014+15.5293	463,044.5882	1,297,606.1436	N 30° 48' 03.7760"
	PI	7014+33.7185	463,060.2118	1,297,596.8297	
	PRC	7014+51.206	463,078.3934	1,297,596.2999	N 1° 40' 08.7866" W
	CC		463,080.4323	1,297,666.2702	
PBAM-16	PC	7014+51.206	463,078.3934	1,297,596.2999	N 1° 40' 08.7866" W
	PI	7014+66.9578	463,094.2238	1,297,595.8386	
	PT	7014+80.2639	463,102.7730	1,297,582.5072	N 57° 19' 43.0715"
	CC		463,077.5196	1,297,566.3126	
-	POT	7015+33.5154	463,131.5192	1,297,537.6811	

CURVE	POINT NO.	STATION	NORTH	EAST	BEARING
-	POT	8000+00.0000	463,131.5192	1,297,537.6811	N 57° 19' 43.0715" W
AMBB-1	PC	8000+59.8888	463,163.8483	1,297,487.2679	N 57° 19' 43.0715"
	PI	8000+90.9122	463,180.5954	1,297,461.1530	
	PT	8001+12.6628	463,210.0558	1,297,470.8759	N 18° 15' 52.5752"
	CC		463,197.5195	1,297,508.8607	
AMBB-2	PC	8002+50.8435	463,341.2748	1,297,514.1825	N 18° 15' 52.5752"
	PI	8002+73.8409	463,363.1136	1,297,521.3901	
	PRC	8002+96.8153	463,380.2358	1,297,536.7431	N 41° 52' 54.6255"
	CC		463,306.8002	1,297,618.6407	
AMBB-3	PC	8002+96.8153	463,380.2358	1,297,536.7431	N 41° 52' 54.6255"
	PI	8003+19.0326	463,397.2461	1,297,551.9959	
	PT	8003+40.9346	463,419.4720	1,297,557.2882	N 13° 23' 36.8315"
	CC		463,440.3195	1,297,469.7360	
AMBB-4	PC	8003+70.1221	463,447.8657	1,297,564.0492	N 13° 23' 36.8315"
	PI	8004+01.7721	463,478.6549	1,297,571.3805	
	PT	8004+33.3790	463,509.9800	1,297,575.9034	N 8° 12' 57.2981" E
	CC		463,610.0128	1,296,883.0878	
AMBB-5	PC	8004+81.0733	463,557.1848	1,297,582.7191	N 8° 12' 57.2981" E
	PI	8005+11.6616	463,587.4592	1,297,587.0903	
	PT	8005+40.4053	463,608.8001	1,297,609.0040	N 45° 45' 31.2510"
	CC		463,544.3234	1,297,671.7954	
AMBB-6	PC	8005+63.0569	463,624.8549	1,297,625.4897	N 45° 45' 31.2510"
	PI	8005+65.9168	463,626.8502	1,297,627.5386	
	PT	8005+68.7382	463,629.3398	1,297,628.9461	N 29° 28' 58.5061"
	CC		463,639.1830	1,297,611.5361	
AMBB-7	PC	8005+98.8232	463,655.5288	1,297,643.7529	N 29° 28' 58.5061"
	PI	8006+13.0520	463,667.9150	1,297,650.7558	
	PT	8006+26.5479	463,682.1325	1,297,650.1879	N 2° 17' 14.3663" W
	CC		463,680.1370	1,297,600.2277	
AMBB-8	PC	8006+85.6307	463,741.1682	1,297,647.8299	N 2° 17' 14.3663" W
	PI	8006+97.2581	463,752.7864	1,297,647.3658	
	PT	8007+08.6422	463,763.8450	1,297,650.9583	N 17° 59' 48.1812"
	CC		463,743.7624	1,297,712.7781	
-	POT	8007+30.9797	463,785.0896	1,297,657.8597	N 2° 19' 45.25" E

CURVE DATA							
CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH	EXTERNAL	LONG. CHORD.
PBAM-4	6° 24' 52.7190" RT	7° 44' 33.6225"	740.0000'	41.4673'	82.8479'	1.1609'	82.8047'
PBAM-5	16° 06' 42.0714" LT	15° 04' 40.2122"	380.0000'	53.7833'	106.8568'	3.7872'	106.5050'
PBAM-6	5° 57' 03.4146" LT	15° 16' 43.9483"	375.0000'	19.4920'	38.9489'	0.5062'	38.9314'
PBAM-7	19° 39' 21.8771" RT	40° 55' 32.0045"	140.0000'	24.2528'	48.0289'	2.0852'	47.7937'
PBAM-8	6° 04' 53.3401" LT	13° 01' 18.3651"	440.0000'	23.3732'	46.7024'	0.6204'	46.6805'
PBAM-9	31° 32' 28.0181" RT	57° 17' 44.8060"	100.0000'	28.2417'	55.0496'	3.915'	54.3572'
PBAM-10	40° 38' 53.6964" LT	35° 48' 35.5040"	160.0000'	59.2624'	113.5113'	10.6225'	111.458'
PBAM-11	29° 48' 02.1260" RT	81° 51' 04.0089"	70.0000'	18.6259'	36.4083'	2.4357'	35.9993'
PBAM-12	25° 26' 48.6886" RT	71° 37' 11.0078"	80.0000'	18.0632'	35.5305'	2.0139'	35.2392'
PBAM-13	23° 21' 32.5818" LT	47° 44' 47.3385"	120.0000'	24.8061'	48.9231'	2.5371'	48.5850'
PBAM-14	35° 30' 51.3102" RT	63° 39' 43.1181"	90.0000'	28.8216'	55.7857'	4.5023'	54.8969'
PBAM-15	29° 07' 54.9894" RT	81° 51' 04.0089"	70.0000'	18.1892'	35.5914'	2.3246'	35.2092'
PBAM-16	55° 39' 34.2849" LT	190° 59' 09.3541"	30.0000'	15.8371'	29.1433'	3.9231'	28.0108'
AMBB-1	75° 35' 35.6468" RT	143° 14' 22.0156"	40.0000'	31.0234'	52.7740'	10.6207'	49.0288'
AMBB-2	23° 37' 02.0504" RT	52° 05' 13.4602"	110.0000'	22.9975'	45.3418'	2.3783'	45.0215'
AMBB-3	28° 29' 17.7940" LT	63° 39' 43.1179"	90.0000'	22.8473'	44.7493'	2.8547'	44.2897'
AMBB-4	5° 10' 39.5334" LT	8° 11' 06.4009"	700.0000'	31.6500'	63.2569'	0.7152'	63.2354'
AMBB-5	37° 32' 33.9528" RT	63° 39' 43.1181"	90.0000'	30.5883'	58.9720'	5.0560'	57.9227'
AMBB-6	16° 16' 32.7448" LT	286° 28' 44.0312"	20.0000'	2.8599'	5.6813'	0.2034'	5.6622'
AMBB-7	31° 46' 12.8725" LT	114° 35' 29.6125"	50.0000'	14.2288'	27.7248'	1.9852'	27.3109'
AMBB-8	20° 17' 02.5476" RT	88° 08' 50.4711"	65.0000'	11.6275'	23.0115'	1.0318'	22.8915'

TRAVERSE POINTS			
POINT NO.	NORTH	EAST	ELEVATION
13	462821.5603	1298273.9991	57.490
12	462846.5472	1297960.7862	61.200
11	462926.0650	1297703.4648	59.690
10	463123.1118	1297603.2982	62.970
9	463197.3687	1297452.0246	61.650
8	463322.3391	1297547.8437	59.680
7	463527.4783	1297566.7777	62.070
6	463677.0732	1297659.3281	56.700

Thursday, September 12, 2013 AT 03:30 PM
 U:\2026\03049\02 rock creek park-trail\trams\cadd\sheet_files\065-0007_r.ctb

NOT FOR CONSTRUCTION



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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
 MULTI-USE TRAIL REHABILITATION
 30% DESIGN SUBMITTAL

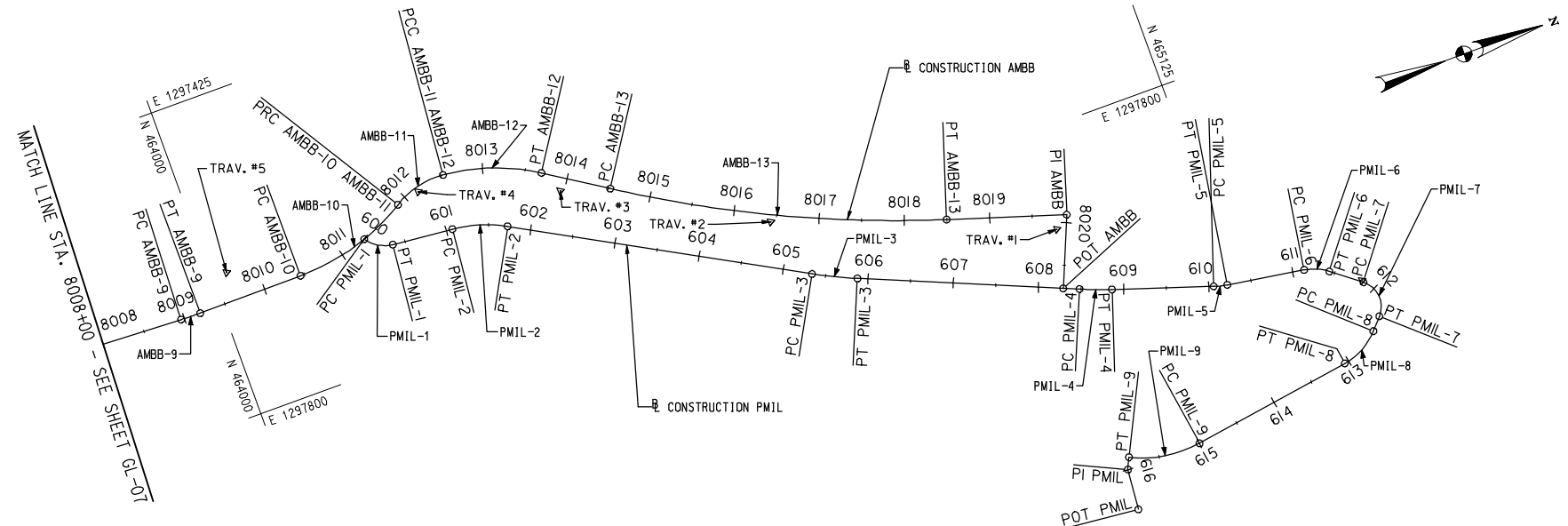
PROJECT ENG.	_____
DESIGNED BY	_____
CHECKED BY	_____
DRAWN BY	_____
PROJECT MGR.	_____

DATE: 09-13-2013	SCALE: 1" = 100'	GL-07
GEOMETRIC LAYOUT SHEET		
DIVISION CHIEF _____		
DATE: _____		
FILE: _____		
SHEET 012 OF 124		

CURVE	POINT NO.	STATION	NORTH	EAST	BEARING
AMBB-9	PC	8008+95.9206	463,949.8942	1,297,664.5632	N 2° 19' 45.2460" E
	PI	8009+07.7029	463,961.6667	1,297,665.0420	
	PT	8009+19.4808	463,973.4488	1,297,664.9658	N 0° 22' 14.0095" W
	CC		463,970.2150	1,297,164.9763	
AMBB-10	PC	8010+45.0754	464,099.0407	1,297,664.1536	N 0° 22' 14.0095" W
	PI	8011+18.5897	464,172.5535	1,297,663.6781	
	PRC	8011+88.3637	464,234.9333	1,297,624.7794	N 31° 56' 48.3345" E
	CC		464,097.3592	1,297,404.1590	
AMBB-11	PRC	8011+88.3637	464,234.9333	1,297,624.7794	N 31° 56' 48.3345" E
	PI	8012+21.7339	464,263.2493	1,297,607.1222	
	PCC	8012+52.7802	464,296.4945	1,297,610.0081	N 4° 57' 40.2787" E
	CC		464,287.8464	1,297,709.6335	
AMBB-12	PCC	8012+52.7802	464,296.4945	1,297,610.0081	N 4° 57' 40.2787" E
	PI	8013+12.3401	464,355.8313	1,297,615.1589	
	PT	8013+69.5413	464,405.8752	1,297,647.4543	N 32° 50' 09.0364" E
	CC		464,275.7391	1,297,849.1089	
AMBB-13	PC	8014+52.1675	464,475.3000	1,297,692.2571	N 32° 50' 09.0364" E
	PI	8016+52.0633	464,643.2580	1,297,800.6474	
	PT	8018+49.6173	464,833.7393	1,297,861.2706	N 17° 39' 15.7690" E
	CC		465,288.6510	1,296,431.9158	
POT	8019+90.4574	464,967.9463	1,297,903.9838	S 67° 16' 19.96" E	
POT	8020+77.0104	464,934.5063	1,297,983.8160		
PMIL-1	PC	600+00.0000	464,183.9874	1,297,649.3030	N 55° 56' 57.3990" E
	PI	600+18.8477	464,194.5407	1,297,664.9191	
	PT	600+35.2270	464,213.3019	1,297,666.7224	N 5° 29' 25.3803" E
	CC		464,217.1291	1,297,626.9059	
PMIL-2	PC	601+07.4043	464,285.1481	1,297,673.6282	N 5° 29' 25.3803" E
	PI	601+40.5038	464,318.0958	1,297,676.7951	
	PT	601+72.6825	464,347.0826	1,297,692.7746	N 28° 51' 59.0736" E
	CC		464,269.8395	1,297,832.8942	
PMIL-3	PC	605+33.8597	464,663.3827	1,297,867.1397	N 28° 51' 59.0736" E
	PI	605+60.6701	464,686.8619	1,297,880.0830	
	PT	605+87.4293	464,711.5905	1,297,890.4413	N 22° 43' 40.0406" E
	CC		464,904.7672	1,297,429.2659	
PMIL-4	PC	608+48.3042	464,952.2087	1,297,991.2312	N 22° 43' 40.0406" E
	PI	608+67.3765	464,969.8001	1,297,998.5999	
	PT	608+86.4303	464,987.9016	1,298,004.6070	N 18° 21' 31.8919" E
	CC		465,145.3855	1,297,530.0558	
PMIL-5	PC	610+05.5470	465,100.9556	1,298,042.1249	N 18° 21' 31.8919" E
	PI	610+13.7548	465,108.7456	1,298,044.7101	
	PT	610+21.9258	465,116.8529	1,298,045.9905	N 8° 58' 28.2770" E
	CC		465,132.4524	1,297,947.2147	
PMIL-6	PC	611+13.5079	465,207.3138	1,298,060.2769	N 8° 58' 28.2770" E
	PI	611+28.8030	465,222.4216	1,298,062.6628	
	PT	611+43.4601	465,234.5435	1,298,071.9901	N 37° 34' 36.1746" E
	CC		465,197.9541	1,298,119.5423	
PMIL-7	PC	611+85.3834	465,267.7693	1,298,097.5559	N 37° 34' 36.1747" E
	PI	612+17.7549	465,293.4249	1,298,117.2968	
	PT	612+34.7875	465,271.7928	1,298,141.3793	S 48° 04' 05.8501" E
	CC		465,249.4746	1,298,121.3320	
PMIL-8	PC	612+53.7744	465,259.1049	1,298,155.5045	S 48° 04' 05.8501" E
	PI	612+80.5102	465,241.2389	1,298,175.3943	
	PT	613+05.1394	465,214.8199	1,298,179.4976	S 8° 49' 42.1164" E
	CC		465,203.3093	1,298,105.3861	
PMIL-9	PC	614+99.6243	465,022.6391	1,298,209.3462	S 8° 49' 42.1164" E
	PI	615+43.9316	464,978.8568	1,298,216.1462	
	PT	615+85.4463	464,939.1341	1,298,196.5186	S 26° 17' 41.0731" E
	CC		465,001.526	1,298,071.0048	
POT	615+99.6688	464,933.2023	1,298,209.4450	S 84° 33' 56.85" E	
POT	616+47.9633	464,928.6286	1,298,257.5225		

TRAVERSE POINTS			
POINT NO.	NORTH	EAST	ELEVATION
5	464018.8961	1297630.5430	65.860
4	464262.5375	1297618.4681	69.550
3	464419.3514	1297674.5326	69.210
2	464638.6673	1297793.1557	70.500
1	464951.0973	1297916.2274	72.530
40	465266.8144	1298095.0121	76.330

CURVE DATA							
CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH	EXTERNAL	LONG CHORD.
AMBB-9	2° 41' 59.2556" LT	11° 27' 32.9612"	500.0000'	11.7823'	23.5601'	0.1388'	23.5580'
AMBB-10	31° 34' 34.3250" LT	22° 02' 12.6178"	260.0000'	73.5143'	143.2883'	10.1932'	141.4818'
AMBB-11	36° 54' 28.6132" RT	57° 17' 44.8062"	100.0000'	33.3702'	64.465'	5.4209'	63.3086'
AMBB-12	27° 52' 28.7578" RT	23° 52' 23.6693"	240.0000'	59.5600'	116.7611'	7.2800'	115.6130'
AMBB-13	15° 10' 53.2674" LT	3° 49' 10.9871"	1,500.0000'	199.8958'	397.4498'	13.2608'	396.2881'
PMIL-1	50° 27' 32.0188" LT	143° 14' 22.0156"	40.0000'	18.8477'	35.2270'	4.2180'	34.0995'
PMIL-2	23° 22' 33.6933" RT	35° 48' 35.5039"	160.0000'	33.0995'	65.2782'	3.3878'	64.8264'
PMIL-3	6° 08' 19.0330" LT	11° 27' 32.9612"	500.0000'	26.8104'	53.5696'	0.7183'	53.5439'
PMIL-4	4° 22' 08.1487" LT	11° 27' 32.9612"	500.0000'	19.0723'	38.1261'	0.3636'	38.1169'
PMIL-5	9° 23' 03.6149" LT	57° 17' 44.8062"	100.0000'	8.2077'	16.3788'	0.3363'	16.3605'
PMIL-6	28° 36' 07.8976" RT	95° 29' 34.6771"	60.0000'	15.2950'	29.9521'	1.9188'	29.6421'
PMIL-7	94° 21' 17.9753" RT	190° 59' 09.3542"	30.0000'	32.3115'	49.4042'	14.1352'	44.0078'
PMIL-8	39° 14' 23.7337" RT	76° 23' 39.7471"	75.0000'	26.7357'	51.3649'	4.6229'	50.3670'
PMIL-9	35° 07' 23.1895" RT	40° 55' 32.0045"	140.0000'	44.3072'	85.8219'	6.8439'	84.4845'



Thursday, September 12, 2013 AT 03:30 PM
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HORIZONTAL SCALE: 1" = 100'



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
 MULTI-USE TRAIL REHABILITATION
 30% DESIGN SUBMITTAL

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

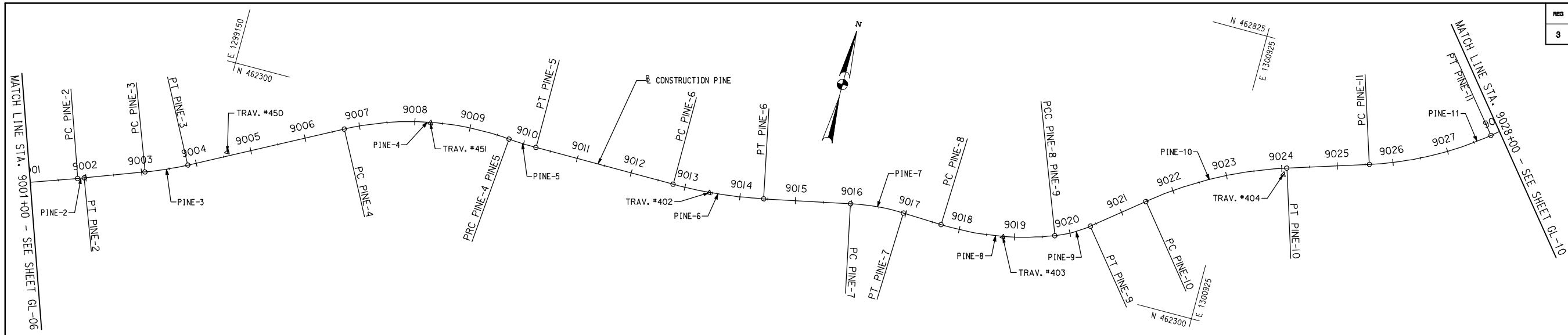
DATE: 09-13-2013 SCALE: 1" = 100' GL-08

GEOMETRIC LAYOUT SHEET

DIVISION CHIEF _____

DATE _____
 FILE _____
 SHEET 013 OF 124

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		014	124



CURVE	POINT NO.	STATION	NORTH	EAST	BEARING
PINE-2	PC	9001+85.0846	462,026.1869	1,298,929.9436	N 70° 35' 39.2335"
	PI	9001+91.0592	462,028.1720	1,298,935.5787	
	PT	9001+97.0334	462,030.2690	1,298,941.1732	N 69° 27' 11.5430"
	CC		462,592.1005	1,298,730.5899	
PINE-3	PC	9003+06.3781	462,068.6459	1,299,043.5621	N 69° 27' 11.5430"
	PI	9003+45.4486	462,082.3586	1,299,080.1471	
	PT	9003+84.4103	462,100.6703	1,299,114.6606	N 62° 03' 03.6800"
	CC		462,634.2230	1,298,831.5748	
PINE-4	PC	9006+72.3399	462,235.6186	1,299,369.0076	N 62° 03' 03.6800"
	PI	9008+26.6249	462,307.9297	1,299,505.2976	
	PRC	9009+72.4297	462,294.8483	1,299,659.0270	S 85° 08' 10.4313"
	CC		461,772.7352	1,299,614.5986	
PINE-5	PRC	9009+72.4297	462,294.8483	1,299,659.0270	S 85° 08' 10.4313"
	PI	9009+97.7618	462,292.7005	1,299,684.2678	
	PT	9010+23.0637	462,292.6879	1,299,709.5998	S 89° 58' 17.1075"
	CC		462,892.6878	1,299,709.8991	
PINE-6	PC	9012+77.8147	462,292.5608	1,299,964.3507	S 89° 58' 17.1075"
	PI	9013+60.6922	462,292.5195	1,300,047.2283	
	PT	9014+42.9806	462,309.4684	1,300,128.3542	N 78° 11' 58.0102"
	CC		463,092.5607	1,299,964.7498	
PINE-7	PC	9015+98.9587	462,341.3668	1,300,281.0358	N 78° 11' 58.0102"
	PI	9016+47.5051	462,351.2948	1,300,328.5562	
	PT	9016+95.5790	462,349.5673	1,300,377.0719	S 87° 57' 38.5780"
	CC		461,949.8206	1,300,362.8380	
PINE-8	PC	9017+66.2078	462,347.0540	1,300,447.6559	S 87° 57' 38.5780"
	PI	9018+70.8059	462,343.3319	1,300,552.1878	
	PCC	9019+72.5967	462,380.6840	1,300,649.8893	N 69° 04' 39.7291"
	CC		462,861.7278	1,300,465.9821	
PINE-9	PCC	9019+72.5967	462,380.6840	1,300,649.8893	N 69° 04' 39.7291"
	PI	9020+06.0553	462,392.6321	1,300,681.1418	
	PT	9020+38.9561	462,413.7008	1,300,707.1339	N 50° 58' 20.6457"
	CC		462,576.8378	1,300,574.8980	
PINE-10	PC	9021+47.7857	462,482.2302	1,300,791.6774	N 50° 58' 20.6457"
	PI	9022+79.9941	462,565.4811	1,300,894.3825	
	PT	9024+09.1240	462,605.5378	1,301,020.3766	N 72° 21' 47.6408"
	CC		461,938.4403	1,301,232.4637	
PINE-11	PC	9025+57.5316	462,650.5026	1,301,161.8086	N 72° 21' 47.6408"
	PI	9026+71.6309	462,685.0726	1,301,270.5448	
	PT	9027+83.0377	462,757.1419	1,301,359.0019	N 50° 49' 44.3836"
	CC		463,222.3005	1,300,980.0197	

CURVE DATA							
CURVE	DELTA	De	RADIUS	TANGENT	LENGTH	EXTERNAL	LONG CHORD
PINE-2	1° 08' 27.6905"	LT	9° 32' 57.4677"	600.0000'	5.9746'	0.0297'	11.9486'
PINE-3	7° 24' 07.8629"	LT	9° 29' 09.8024"	604.0000'	39.0705'	1.2623'	77.9780'
PINE-4	32° 48' 45.8886"	RT	10° 56' 03.5126"	524.0000'	154.2849'	22.2416'	296.0057'
PINE-5	4° 50' 06.6762"	LT	9° 32' 57.4677"	600.0000'	25.3320'	0.5345'	50.6189'
PINE-6	11° 49' 44.8823"	LT	7° 09' 43.1008"	800.0000'	82.8775'	165.1659'	164.8727'
PINE-7	13° 50' 23.4118"	RT	14° 19' 26.2016"	400.0000'	48.5464'	96.6203'	2.9352'
PINE-8	22° 57' 41.6930"	LT	11° 07' 31.4187"	515.0000'	104.5981'	206.3889'	10.5148'
PINE-9	18° 06' 19.0834"	LT	27° 17' 01.3363"	210.0000'	33.4586'	66.3594'	2.6487'
PINE-10	21° 23' 26.9951"	RT	8° 11' 06.4009"	700.0000'	132.2084'	261.3383'	12.3756'
PINE-11	21° 32' 03.2573"	LT	9° 32' 57.4677"	600.0000'	114.0993'	225.5060'	10.7525'

TRAVERSE POINTS			
POINT NO.	NORTH	EAST	ELEVATION
450	462141.2323	1299177.0258	61.301
451	462286.1067	1299515.6030	66.629
402	462294.6122	1300030.9156	76.230
403	462354.5687	1300560.3126	86.145
404	462592.3339	1301017.3078	93.425

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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

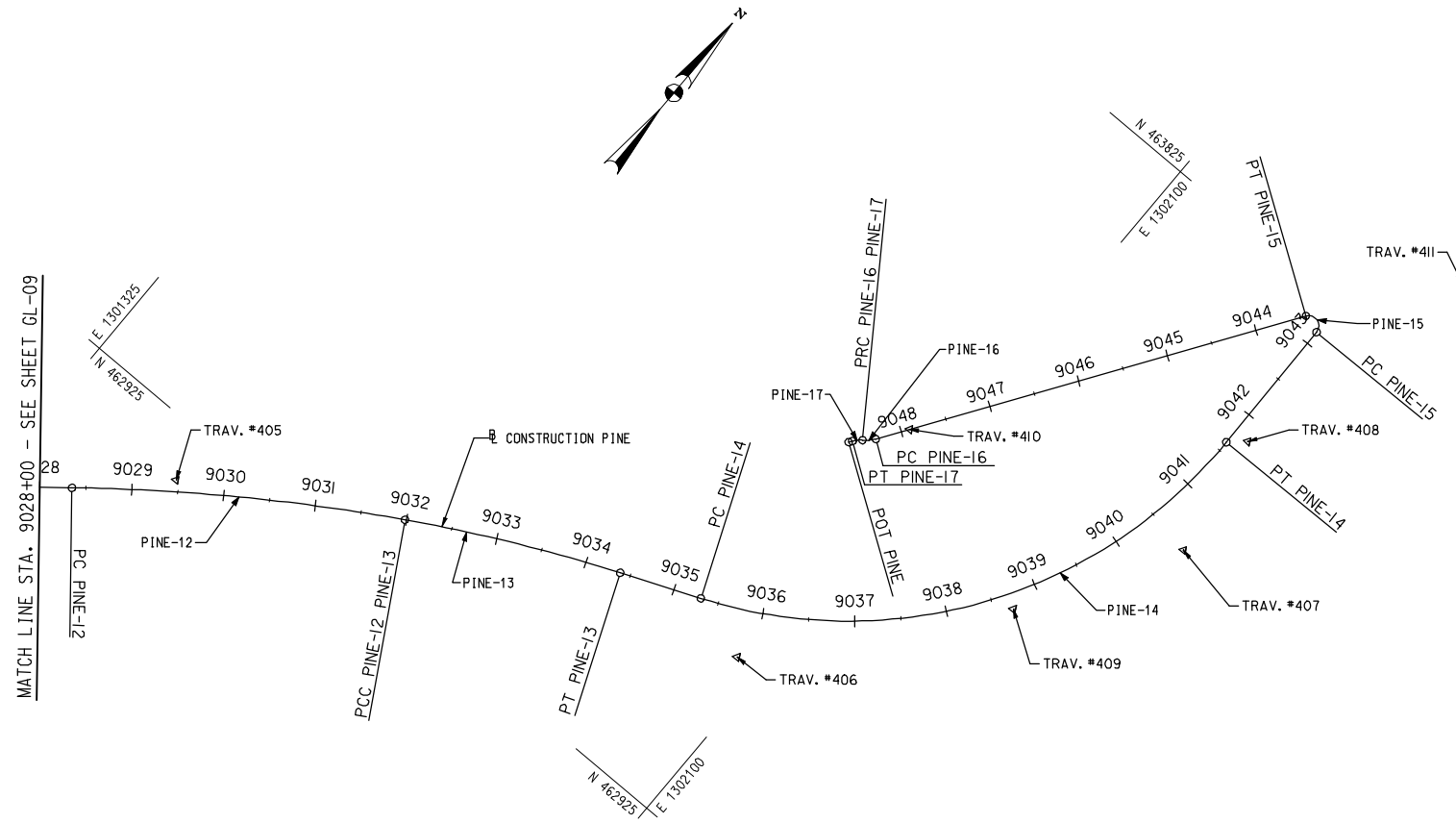
D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
 MULTI-USE TRAIL REHABILITATION
 30% DESIGN SUBMITTAL

PROJECT ENG. _____
 DESIGNED BY _____
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 PROJECT MGR. _____

DATE: 09-13-2013	SCALE: 1" = 100'	GL-09
GEOMETRIC LAYOUT SHEET		DIVISION CHIEF
		DATE _____
		FILE _____
		SHEET 014 OF 124

TRAVERSE POINTS			
POINT NO.	NORTH	EAST	ELEVATION
405	462869.0108	1301480.4786	103.330
406	463113.0331	1302069.8369	109.960
409	463345.4949	1302265.7595	121.169
407	463512.8882	1302366.1489	134.323
408	463647.9999	1302343.7174	137.347
411	463928.6324	1302411.8044	139.118
410	463422.2645	1302054.4184	153.340



CURVE DATA							
CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH	EXTERNAL	LONG CHORD.
PINE-12	9° 18' 34.7137" RT	2° 33' 48.8504"	2,235.0000'	181.9763'	363.1516'	7.3961'	362.7522'
PINE-13	7° 25' 39.0885" RT	3° 05' 13.4055"	1,856.0000'	120.4698'	240.6021'	3.9056'	240.4337'
PINE-14	68° 13' 21.8039" LT	10° 48' 37.8880"	530.0000'	358.9903'	631.0769'	110.1359'	594.4514'
PINE-15	145° 18' 06.1724" LT	52° 52' 14.6022"	11.0000'	35.2105'	27.8959'	25.8888'	20.9991'
PINE-16	21° 36' 28.0072" RT	150° 46' 42.1217"	38.0000'	7.2516'	14.3308'	0.6857'	14.2460'
PINE-17	21° 36' 28.0080" LT	190° 59' 09.3599"	30.0000'	5.7249'	11.3138'	0.5414'	11.2469'

CURVE	POINT NO.	STATION	NORTH	EAST	BEARING
PINE-12	PC	9028+35.0881	462,790.0189	1,301,399.3547	N 50° 49' 44.3836"
	PI	9030+17.0644	462,904.9619	1,301,540.4345	
	PCC	9031+98.2396	462,995.5684	1,301,698.2503	N 60° 08' 19.0973"
	CC		461,057.3033	1,302,811.0635	
PINE-13	PCC	9031+98.2396	462,995.5684	1,301,698.2503	N 60° 08' 19.0973"
	PI	9033+18.7095	463,055.5507	1,301,802.7256	
	PT	9034+38.8418	463,101.5240	1,301,914.0784	N 67° 33' 58.1859"
	CC		461,385.9845	1,302,622.3583	
PINE-14	PC	9035+30.4994	463,136.5020	1,301,998.7995	N 67° 33' 58.1859"
	PI	9038+89.4897	463,273.4986	1,302,330.6217	
	PT	9041+61.5763	463,632.4653	1,302,326.5080	N 0° 39' 23.6181" W
	CC		463,626.3921	1,301,796.5428	
PINE-15	PC	9043+15.8001	463,786.6789	1,302,324.7408	N 0° 39' 23.6181" W
	PI	9043+51.0106	463,821.8872	1,302,324.3373	
	PT	9043+43.6960	463,792.7106	1,302,304.6266	S 34° 02' 30.2095"
	CC		463,786.5529	1,302,313.7415	
PINE-16	PC	9048+28.9180	463,390.6411	1,302,033.0010	S 34° 02' 30.2095"
	PI	9048+36.1696	463,384.6322	1,302,028.9416	
	PRC	9048+43.2489	463,380.5405	1,302,022.9547	S 55° 38' 58.2168"
	CC		463,411.9133	1,302,001.5130	
PINE-17	PRC	9048+43.2489	463,380.5405	1,302,022.9547	S 55° 38' 58.2168"
	PI	9048+48.9738	463,377.3102	1,302,018.2282	
	PT	9048+54.5627	463,372.5663	1,302,015.0234	S 34° 02' 30.2087"
	CC		463,355.7724	1,302,039.8823	
-	POT	9048+58.5648	463,369.2500	1,302,012.7830	

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REVISIONS			

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 PROJECT MANAGEMENT DIVISION

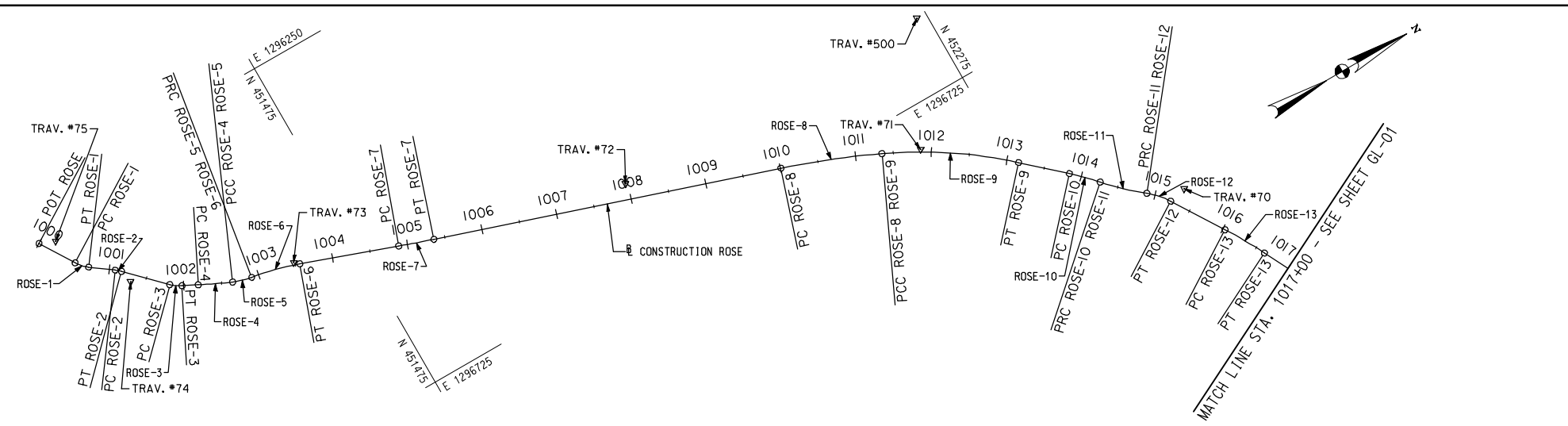
**ROCK CREEK PARK
 MULTI-USE TRAIL REHABILITATION
 30% DESIGN SUBMITTAL**

PROJECT ENG. _____
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 PROJECT MGR. _____

DATE: 09-13-2013 SCALE: 1" = 100' GL-10

GEOMETRIC LAYOUT SHEET

DIVISION CHIEF _____
 DATE _____
 FILE _____
 SHEET 015 OF 124



CURVE	POINT NO.	STATION	NORTH	EAST	BEARING
-	POT	1000+00.0000	451,115.360	1,296,307.1607	N 58° 08' 41.59" E
ROSE-1	PC	1000+53.7527	451,143.5052	1,296,352.8174	N 58° 08' 41.5885"
	PI	1000+63.3030	451,148.5456	1,296,360.9293	
	PT	1000+72.6260	451,156.2209	1,296,366.6124	N 36° 31' 03.6758"
	CC		451,185.9745	1,296,326.4288	
ROSE-2	PC	1001+07.5745	451,184.3082	1,296,387.4093	N 36° 31' 03.6758"
	PI	1001+11.8340	451,187.7314	1,296,389.9440	
	PT	1001+16.0771	451,190.7319	1,296,392.9673	N 45° 13' 01.2635"
	CC		451,150.9842	1,296,432.4150	
ROSE-3	PC	1001+81.8319	451,237.0511	1,296,439.6387	N 45° 13' 01.2635"
	PI	1001+89.9882	451,242.7966	1,296,445.4279	
	PT	1001+98.0021	451,250.0840	1,296,449.0911	N 26° 41' 14.2465"
	CC		451,272.5401	1,296,404.4175	
ROSE-4	PC	1002+19.2861	451,269.1006	1,296,458.6501	N 26° 41' 14.2465"
	PI	1002+42.0650	451,289.4529	1,296,468.8806	
	PCC	1002+64.8342	451,310.2967	1,296,478.0685	N 23° 47' 15.3878"
	CC		451,673.3094	1,295,654.5262	
ROSE-5	PCC	1002+64.8342	451,310.2967	1,296,478.0685	N 23° 47' 15.3878"
	PI	1002+77.7964	451,322.1578	1,296,483.2967	
	PRC	1002+90.6149	451,334.9598	1,296,485.3281	N 9° 00' 58.7864" E
	CC		451,350.6314	1,296,386.5638	
ROSE-6	PRC	1002+90.6149	451,334.9598	1,296,485.3281	N 9° 00' 58.7864" E
	PI	1003+23.5660	451,367.5038	1,296,490.4921	
	PT	1003+56.3234	451,398.5121	1,296,501.6392	N 19° 46' 22.6330"
	CC		451,280.1093	1,296,831.0034	
ROSE-7	PC	1004+88.4793	451,522.8761	1,296,546.3468	N 19° 46' 22.6330"
	PI	1005+11.9531	451,544.9660	1,296,554.2878	
	PT	1005+35.4248	451,567.2361	1,296,561.7082	N 18° 25' 41.0258"
	CC		452,199.4636	1,294,664.2656	
ROSE-8	PC	1010+00.9394	452,008.8797	1,296,708.8638	N 18° 25' 41.0258"
	PI	1010+68.0869	452,072.5839	1,296,730.0900	
	PCC	1011+35.0820	452,133.3849	1,296,758.5860	N 25° 06' 40.9473"
	CC		451,645.3489	1,297,799.8933	
ROSE-9	PCC	1011+35.0820	452,133.3849	1,296,758.5860	N 25° 06' 40.9473"
	PI	1012+26.0890	452,215.7904	1,296,797.2075	
	PT	1013+15.7191	452,283.0368	1,296,858.5279	N 42° 21' 39.4051"
	CC		451,878.7574	1,297,301.8767	
ROSE-10	PC	1013+83.9380	452,333.4447	1,296,904.4937	N 42° 21' 39.4051"
	PI	1014+04.9751	452,348.9893	1,296,918.6684	
	PRC	1014+25.9735	452,362.9613	1,296,934.3956	N 48° 22' 55.5290"
	CC		452,063.9251	1,297,200.0596	
ROSE-11	PRC	1014+25.9735	452,362.9613	1,296,934.3956	N 48° 22' 55.5290"
	PI	1014+57.5642	452,383.9426	1,296,958.0125	
	PRC	1014+89.0019	452,408.6238	1,296,977.7307	N 38° 37' 18.9259"
	CC		452,639.5698	1,296,688.6564	
ROSE-12	PRC	1014+89.0019	452,408.6238	1,296,977.7307	N 38° 37' 18.9259"
	PI	1015+05.8053	452,421.7520	1,296,988.2190	
	PT	1015+22.2977	452,430.7311	1,297,002.4221	N 57° 41' 56.3620"
	CC		452,346.2059	1,297,055.8588	
ROSE-13	PC	1016+02.7586	452,473.7268	1,297,070.4319	N 57° 41' 56.3620"
	PI	1016+32.8864	452,489.8261	1,297,095.8975	
	PT	1016+62.9637	452,503.2935	1,297,122.8477	N 63° 26' 53.3372"
	CC		451,966.5754	1,297,391.0522	

CURVE DATA							
CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH	EXTERNAL	LONG CHORD.
ROSE-1	21° 37' 37.9127" LT	114° 35' 29.6125"	50.0000'	9.5503'	18.8733'	0.9039'	18.7614'
ROSE-2	8° 41' 57.5878" RT	102° 18' 50.0112"	56.0000'	4.2595'	8.5026'	0.1618'	8.4944'
ROSE-3	18° 31' 47.0171" LT	114° 35' 29.6125"	50.0000'	8.1563'	16.1702'	0.6609'	16.0999'
ROSE-4	2° 53' 58.8587" LT	6° 21' 58.3118"	900.0000'	22.7789'	45.5481'	0.2882'	45.5433'
ROSE-5	14° 46' 16.6013" LT	57° 17' 44.8059"	100.0000'	12.9622'	25.7807'	0.8366'	25.7094'
ROSE-6	10° 45' 23.8466" RT	16° 22' 12.8018"	350.0000'	32.9511'	65.7085'	1.5477'	65.6120'
ROSE-7	1° 20' 41.6072" LT	2° 51' 53.2403"	2,000.0000'	23.4739'	46.9455'	0.1378'	46.9445'
ROSE-8	6° 40' 59.9214" RT	4° 58' 56.0701"	1,150.0000'	67.1475'	134.1427'	1.9587'	134.0666'
ROSE-9	17° 14' 58.4579" RT	9° 32' 57.4677"	600.0000'	91.0070'	180.6371'	6.8626'	179.9557'
ROSE-10	6° 01' 16.1238" RT	14° 19' 26.2016"	400.0000'	21.0371'	42.0355'	0.5528'	42.0162'
ROSE-11	9° 45' 36.6031" LT	15° 29' 07.2450"	370.0000'	31.5906'	63.0284'	1.3462'	62.9522'
ROSE-12	19° 04' 37.4362" RT	57° 17' 44.8057"	100.0000'	16.8034'	33.2958'	1.4019'	33.1422'
ROSE-13	5° 44' 56.9751" RT	9° 32' 57.4677"	600.0000'	30.1278'	60.2051'	0.7559'	60.1798'

TRAVERSE POINTS			
POINT NO.	NORTH	EAST	ELEVATION
75	451135.4458	1296315.4423	42.650
74	451194.4311	1296410.6100	43.749
73	451392.2550	1296496.2618	47.170
72	451821.7318	1296624.2095	58.265
500	452261.9369	1296627.3924	63.069
71	452180.1092	1296779.3467	61.810
70	452454.0586	1296996.9351	65.721

Thursday, September 12, 2013 AT 03:30 PM
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0 100' 200'

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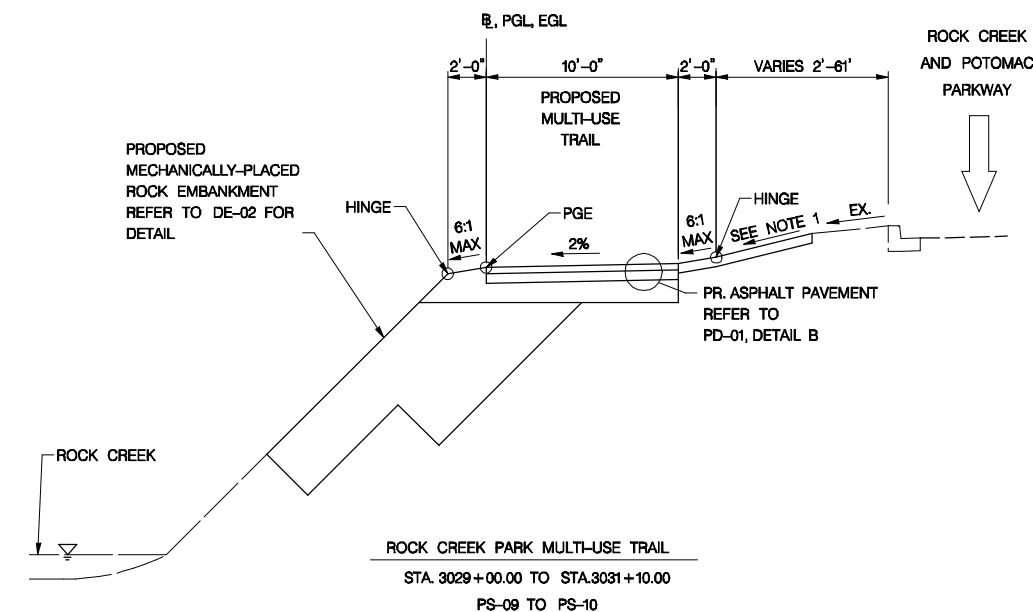
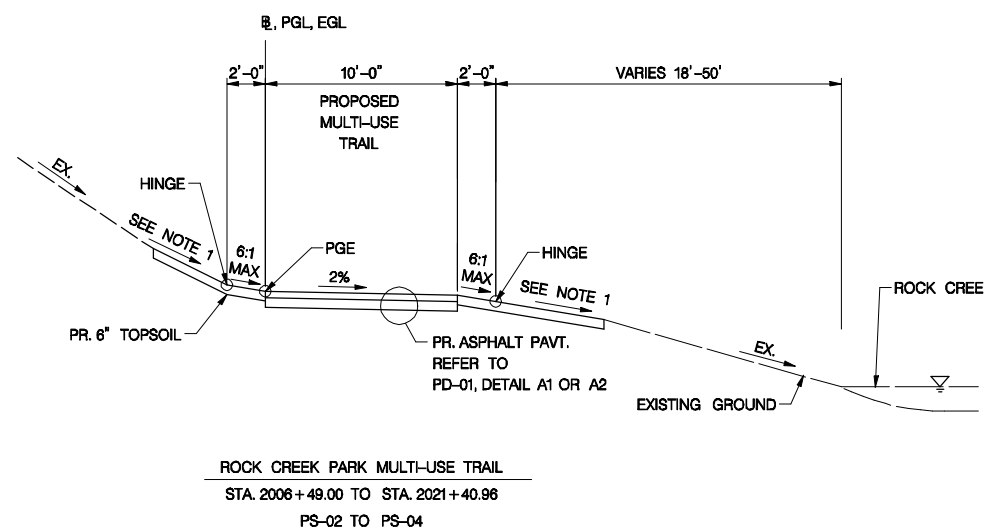
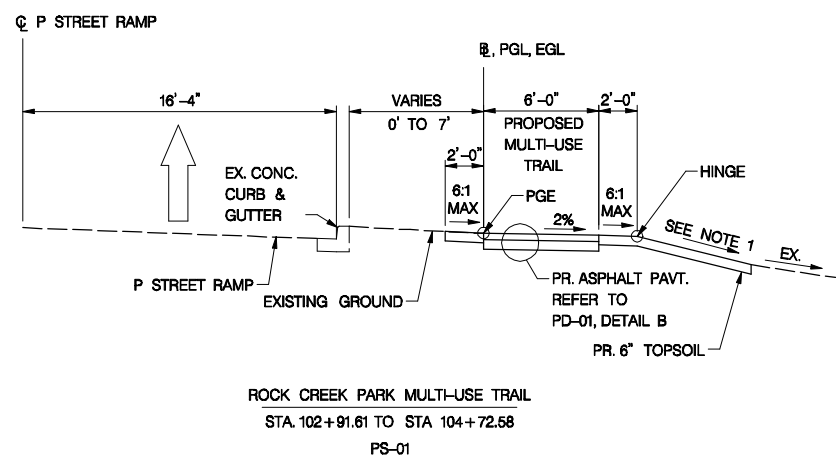
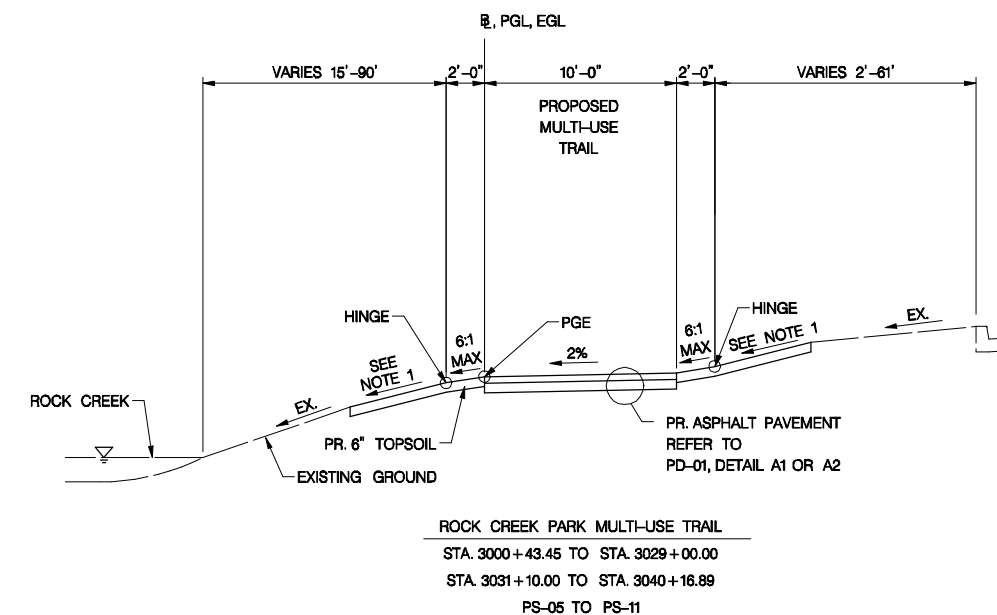
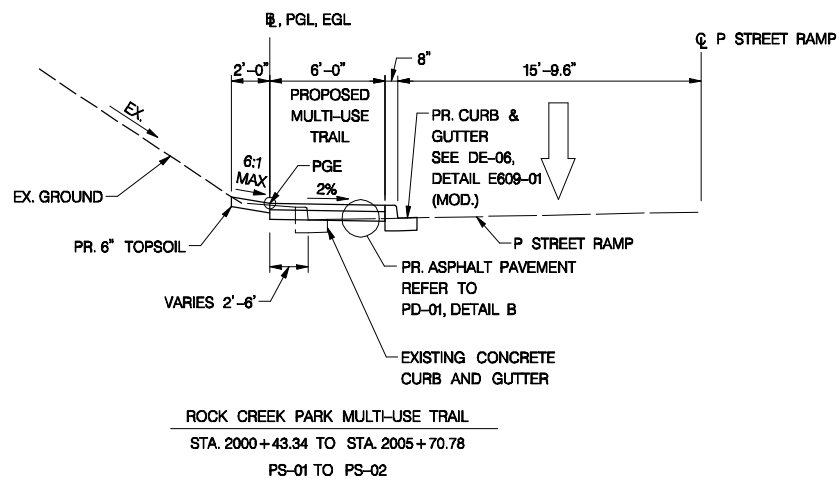
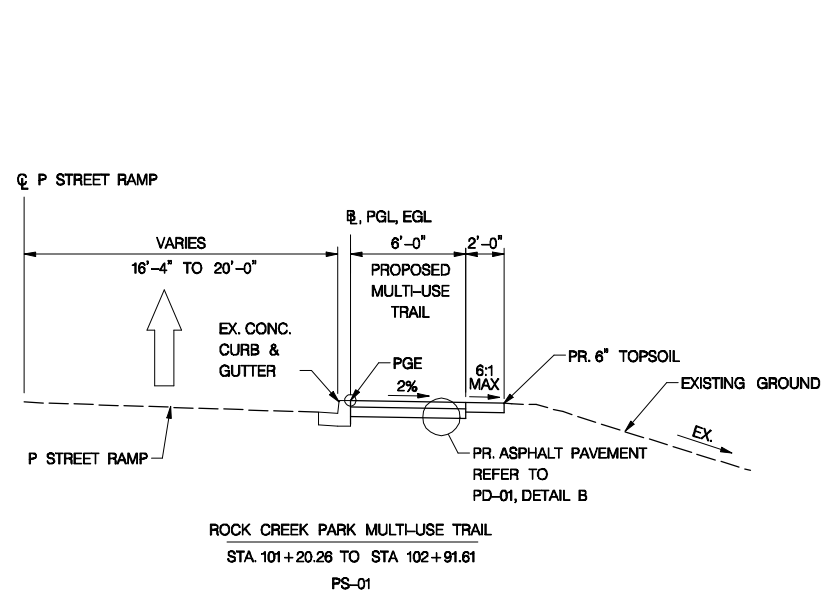
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 PROJECT MANAGEMENT DIVISION**

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 30% DESIGN SUBMITTAL**

PROJECT ENG. _____
 DESIGNED BY _____
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 PROJECT MGR. _____

DATE: 09-13-2013	SCALE: 1" = 100'	GL-11
GEOMETRIC LAYOUT SHEET		
DIVISION CHIEF _____		
DATE _____		
FILE _____		
SHEET 016 OF 124		

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		017	124



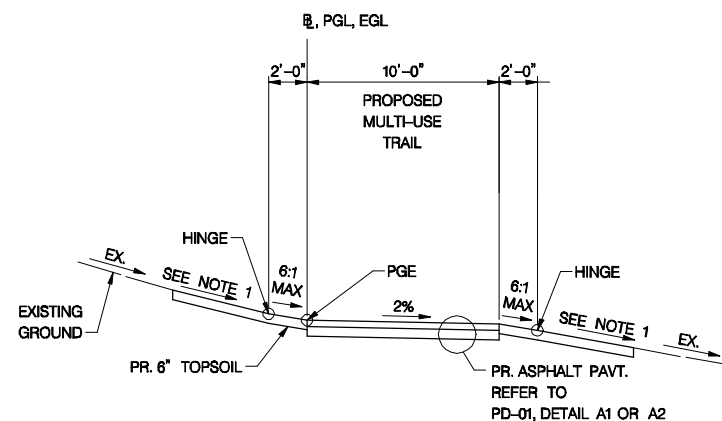
NOTES:
1) REFER TO TS-08, FOR CUT AND FILL SLOPE CRITERIA DETAILS.

DATE: 09-13-2013	SCALE: 1" = 5'	TS-01
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		
ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
TYPICAL SECTIONS		DIVISION CHIEF _____
		DATE _____ FILE _____ SHEET 017 OF 124

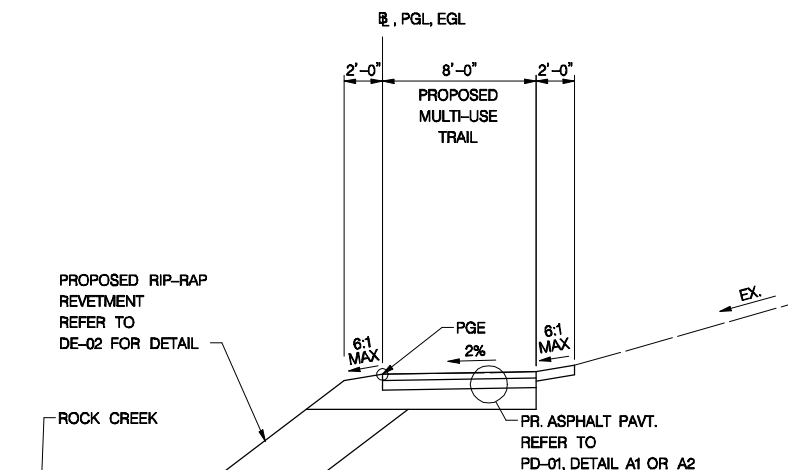


NOT FOR CONSTRUCTION

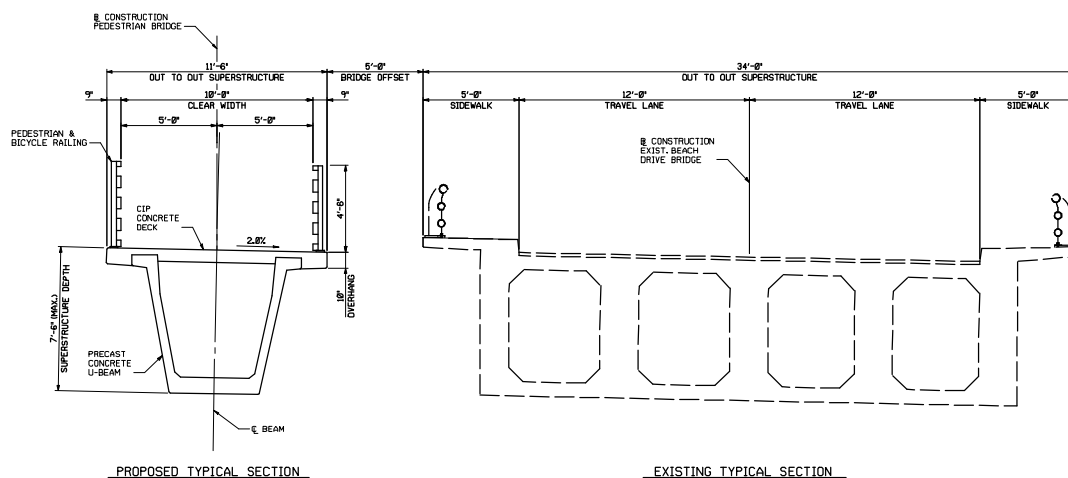
NO.	DESCRIPTION	NAME	DATE
REVISIONS			



ROCK CREEK PARK MULTI-USE TRAIL
STA. 4000+69.87 TO STA. 4020+10.02
PS-12 TO PS-15

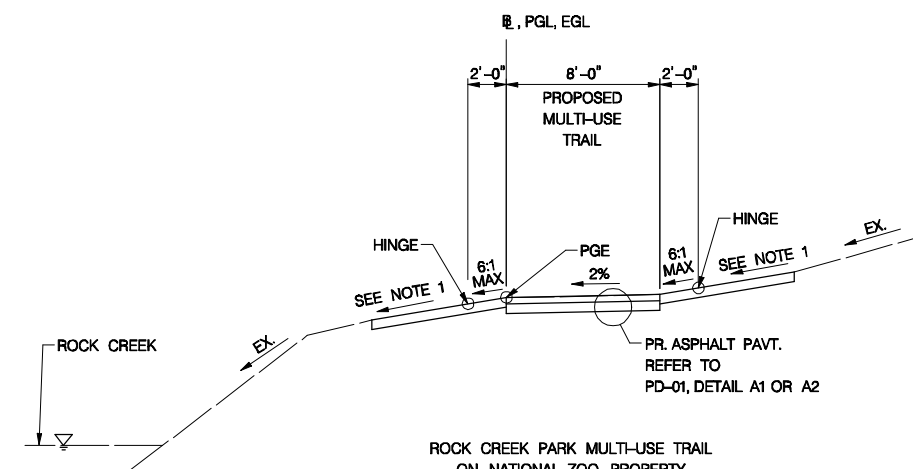


ROCK CREEK PARK MULTI-USE TRAIL
ON NATIONAL ZOO PROPERTY
STA. 400+16.01 TO STA. 401+89.00
STA. 408+25.00 TO STA. 409+88.00
PS-16 AND PS-19 TO PS-24



TYPICAL SECTION
SCALE: 1/2" = 1'-0"

PROPOSED PEDESTRIAN BRIDGE OVER ROCK CREEK
STA. 200+10.12 TO STA. 202+13.07
PS-16



ROCK CREEK PARK MULTI-USE TRAIL
ON NATIONAL ZOO PROPERTY
STA. 401+89.00 TO STA. 408+25.00
STA. 409+88.00 TO STA. 426+45.89
PS-16 AND PS-19 TO PS-24

NOTES:

- REFER TO TS-08, FOR CUT AND FILL SLOPE CRITERIA DETAILS.
- REFER TO BR-01 THRU BR-07 FOR STRUCTURE PLAN, ELEVATION, AND DETAILS.

DATE: 09-13-2013	SCALE: 1" = 5'	TS-02
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		
ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
TYPICAL SECTIONS		DIVISION CHIEF _____
		DATE _____ FILE _____ SHEET 018 OF 124



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-FOR INFORMATION ONLY-
BEACH DRIVE NW
WORK PROPOSED
BY OTHERS

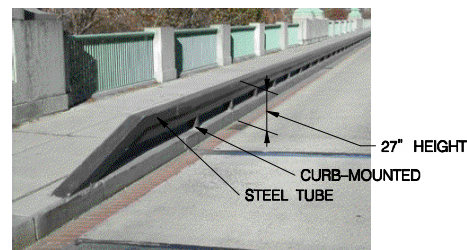
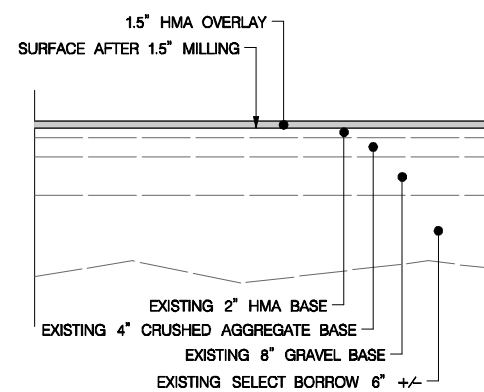
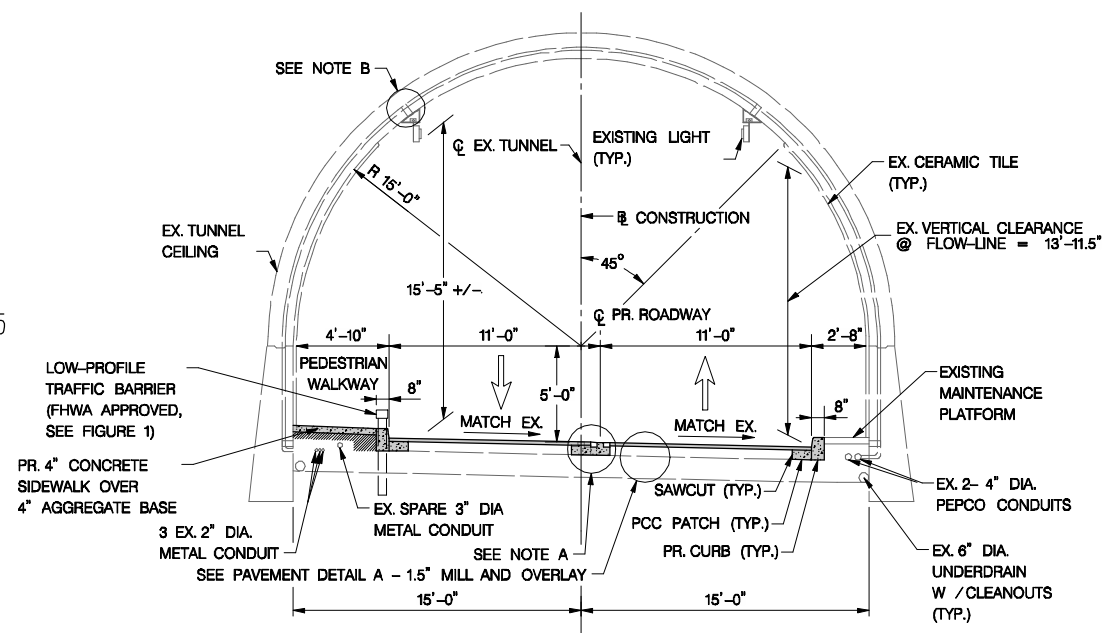


FIGURE 1
EXAMPLE OF LOW-PROFILE BARRIER, CURB MOUNTED
M STREET NW OVER ROCK CREEK PARKWAY
WASHINGTON, DC



PAVEMENT DETAIL A
1.5" MILL AND OVERLAY
SCALE: N/A



PEDESTRIAN WALKWAY THROUGH
BEACH DRIVE TUNNEL (WORK BY OTHERS)
STA. 112+01.10 TO STA 120+09.62 - LOOKING NORTH
SCALE: 1" = 5'

- NOTES:
A. REMOVE WHITE VITREOUS GLAZED BRICKS AT ROADWAY CENTER LINE. PLACE PCC CONCRETE PATCH. RESET WHITE VITREOUS GLAZED BRICKS AT PR. CENTERLINE.
B. EX. CONDUIT AND JUNCTION BOXES. DRAIN CHASE NOT SHOWN FOR CLARITY.
C. PEDESTRIAN WALKWAY NOT INTENDED FOR BICYCLE USE. INSTALL SIGNAGE INSTRUCTING BICYCLISTS USING WALKWAY TO DISMOUNT.



**PRELIMINARY
NOT FOR CONSTRUCTION**

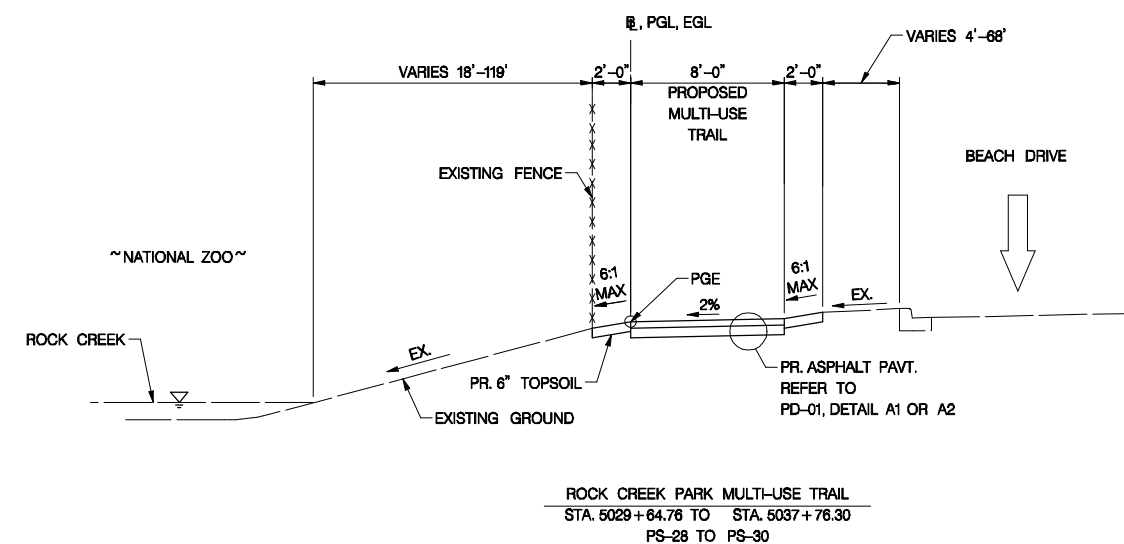
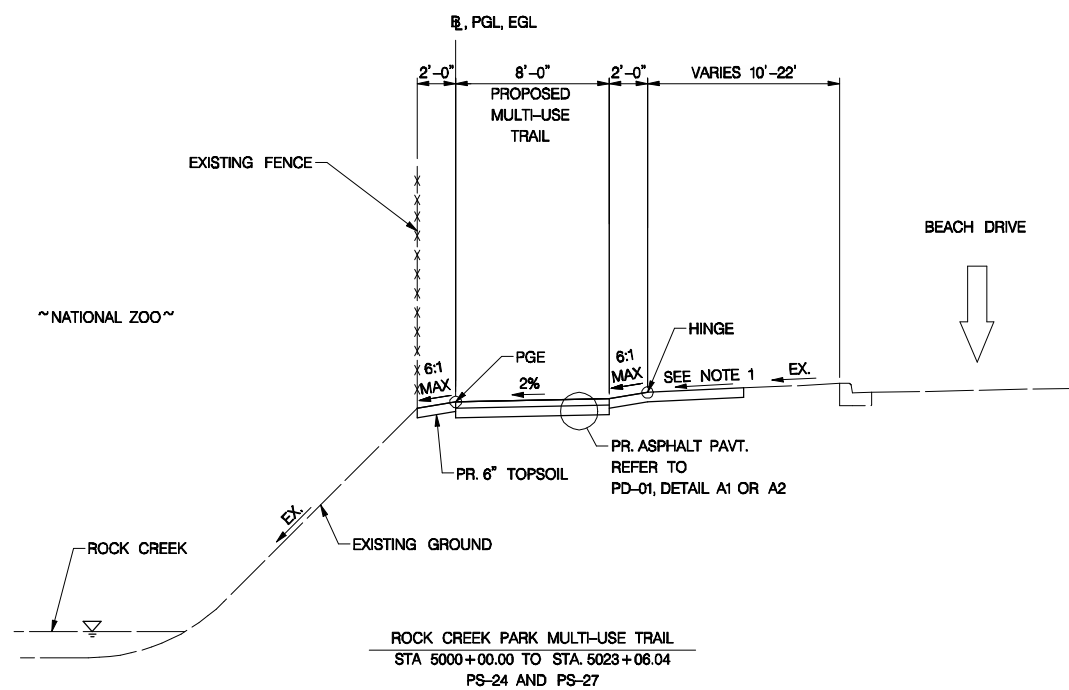
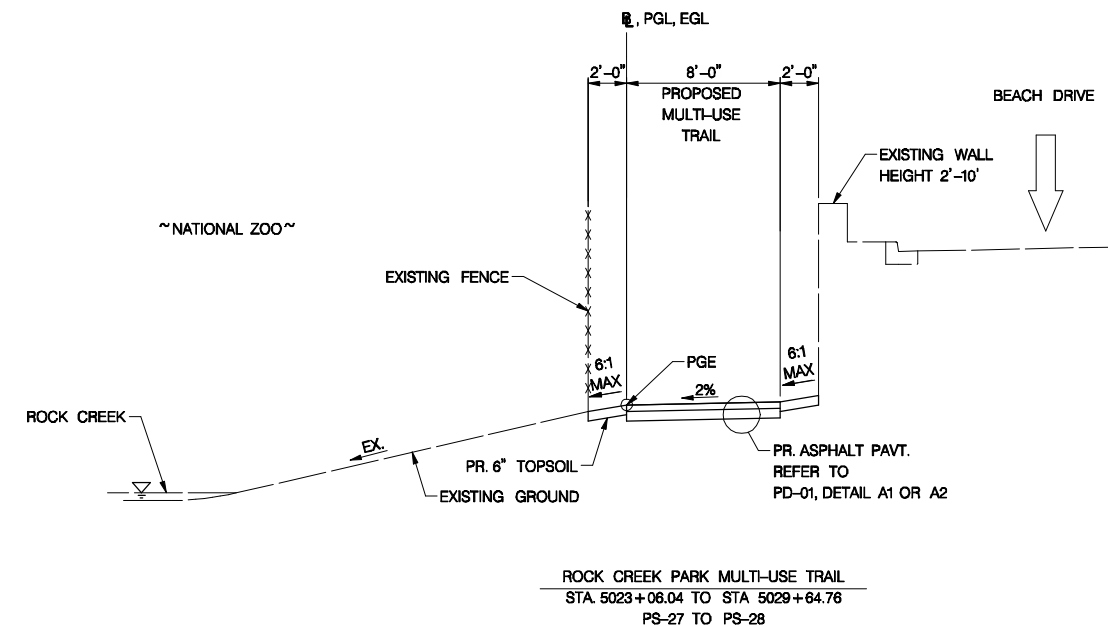


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NO.	DESCRIPTION	NAME	DATE
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DATE: 09-13-2013	SCALE: 1" = 5'	TS-03
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		
ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
TYPICAL SECTION BEACH DRIVE TUNNEL (WORK BY OTHERS)		DIVISION CHIEF _____ DATE _____ FILE _____ SHEET 019 OF 124

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		020	124



NOTES:

- REFER TO TS-08, FOR CUT AND FILL SLOPE CRITERIA DETAILS.
- CONTRACTOR IS NOT TO DISTURB FENCE.

DATE: 09-13-2013	SCALE: 1" = 5'	TS-04
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		
ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
TYPICAL SECTIONS		DIVISION CHIEF _____
		DATE _____ FILE _____ SHEET 020 OF 124

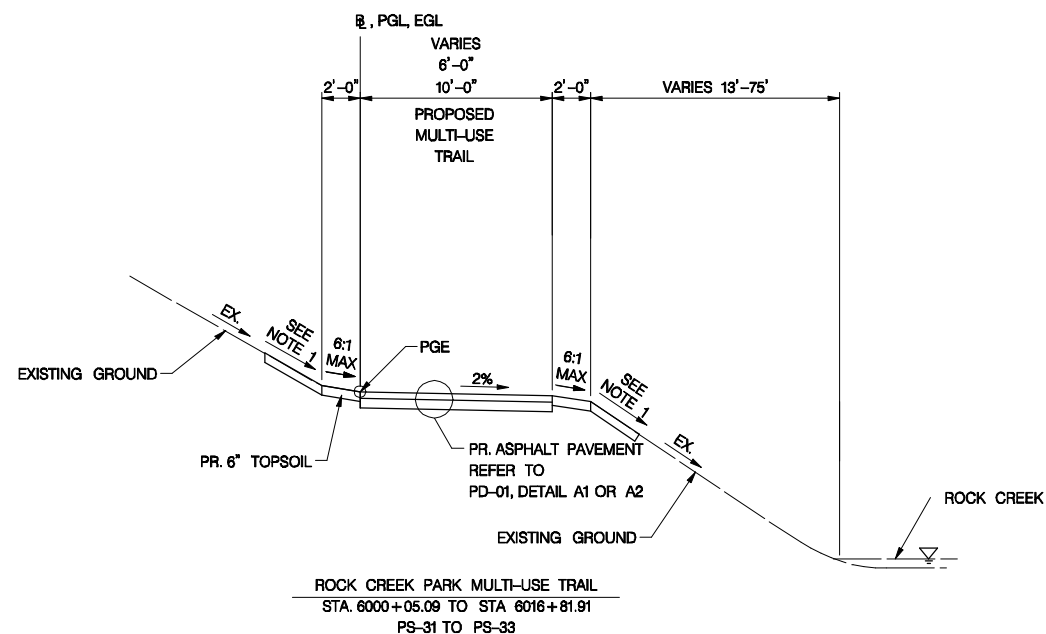


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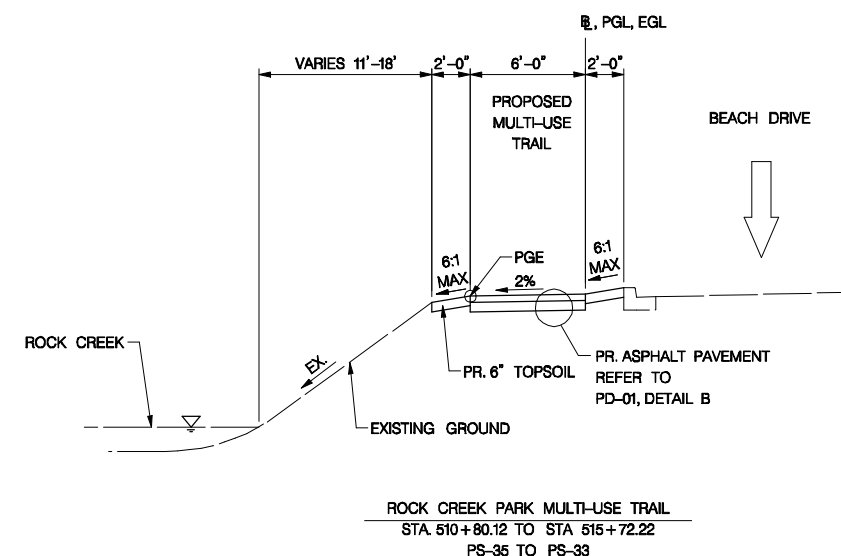
NO.	DESCRIPTION	NAME	DATE
REVISIONS			

NOT FOR CONSTRUCTION

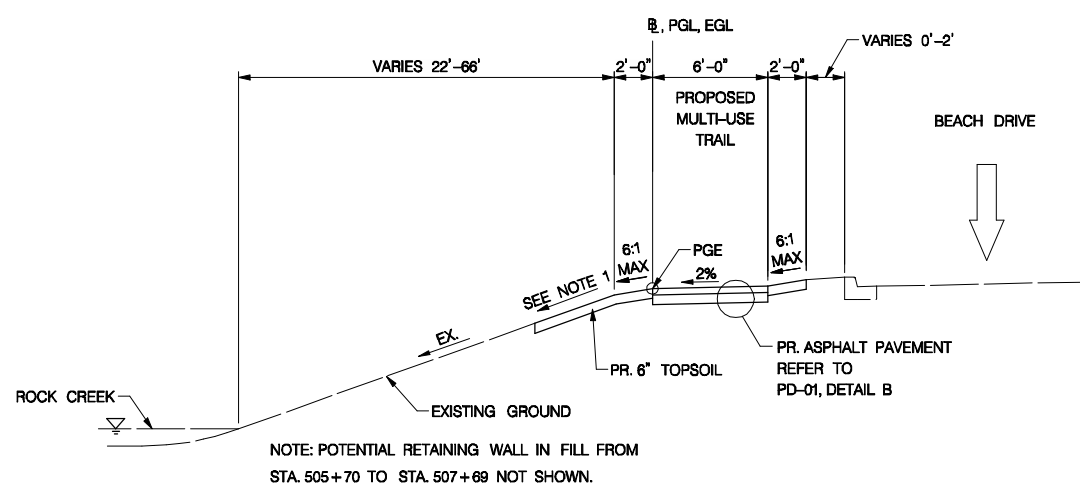
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		021	124



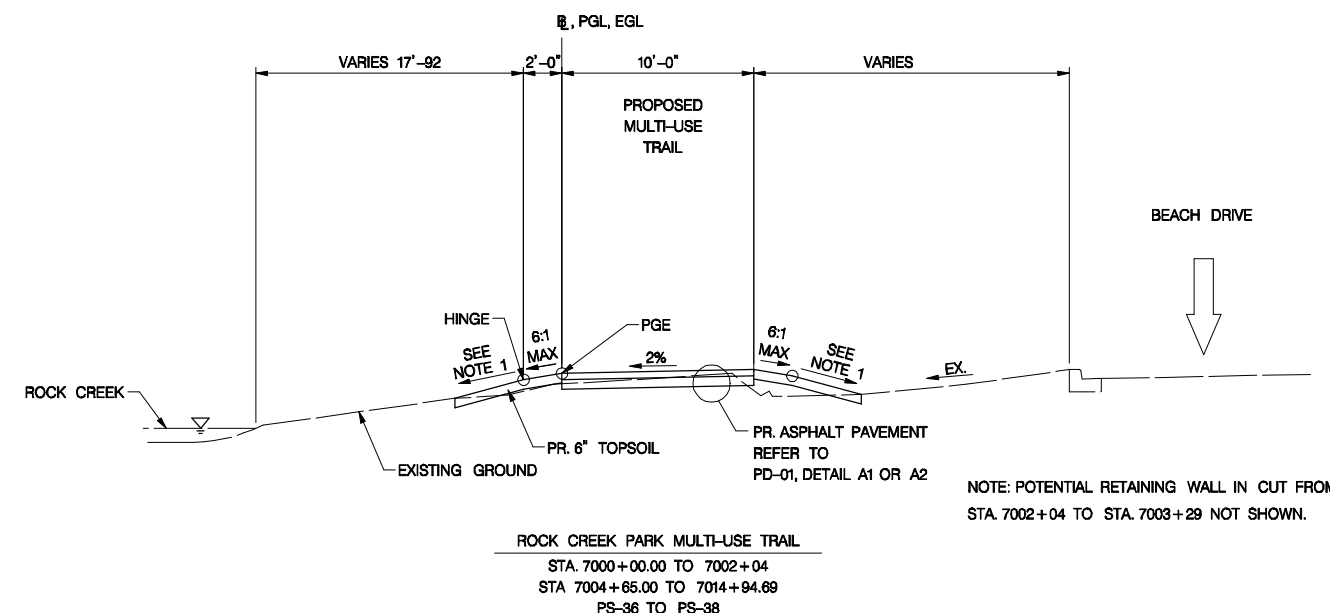
ROCK CREEK PARK MULTI-USE TRAIL
STA. 6000+05.09 TO STA. 6016+81.91
PS-31 TO PS-33



ROCK CREEK PARK MULTI-USE TRAIL
STA. 510+80.12 TO STA. 515+72.22
PS-35 TO PS-33



ROCK CREEK PARK MULTI-USE TRAIL
STA. 505+35.16 TO STA. 508+86.19
PS-35 TO PS-35



ROCK CREEK PARK MULTI-USE TRAIL
STA. 7000+00.00 TO 7002+04
STA. 7004+65.00 TO 7014+94.69
PS-36 TO PS-38

NOTE: POTENTIAL RETAINING WALL IN CUT FROM STA. 7002+04 TO STA. 7003+29 NOT SHOWN.

NOTES:
1) REFER TO TS-08, FOR CUT AND FILL SLOPE CRITERIA DETAILS.

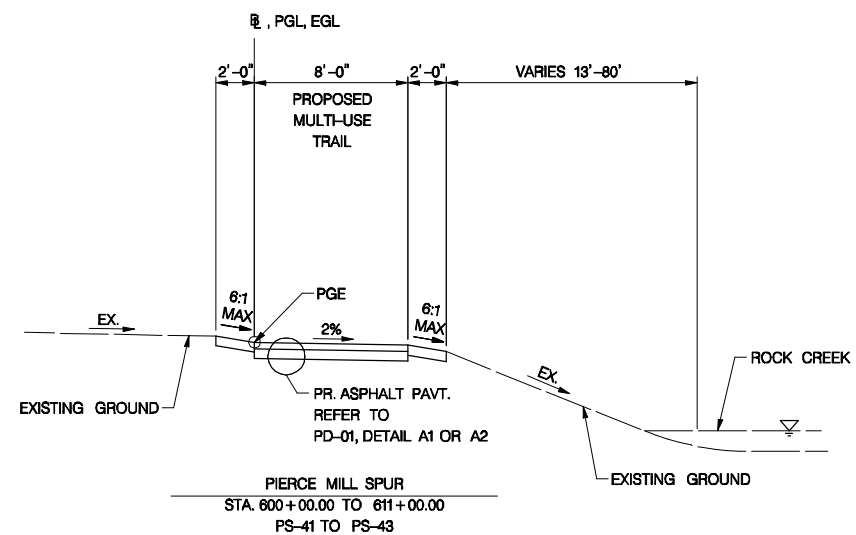
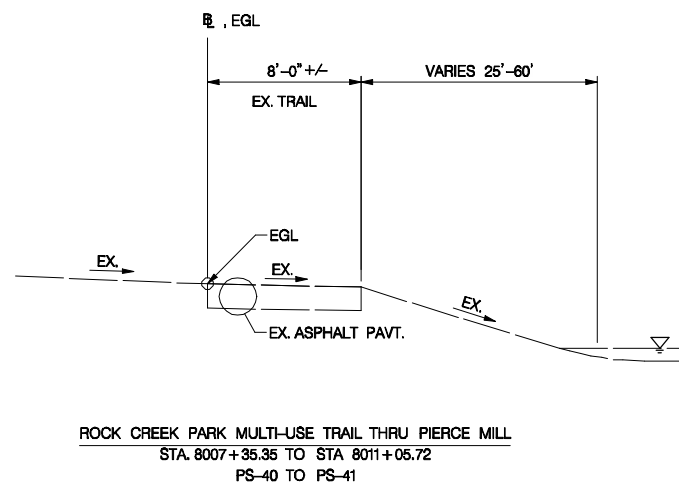
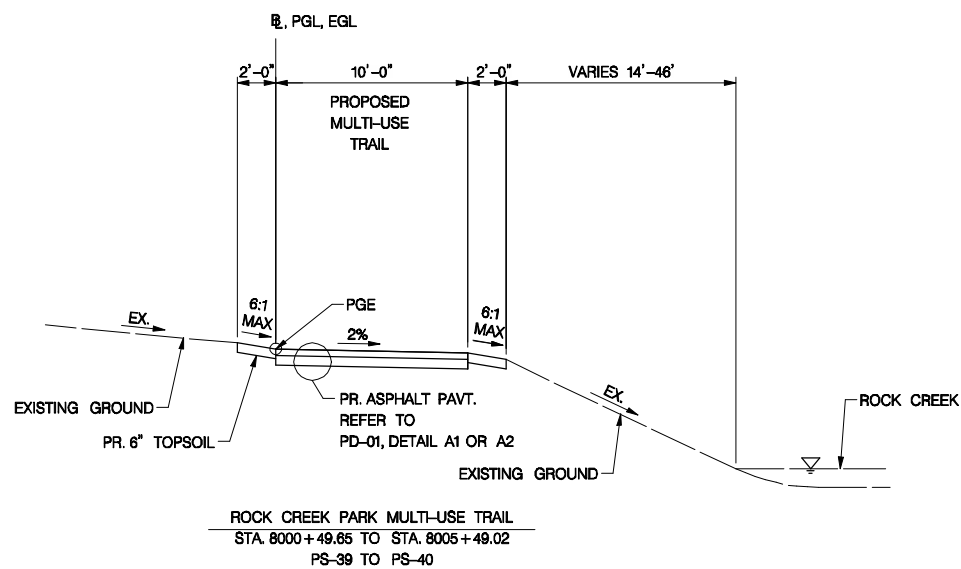
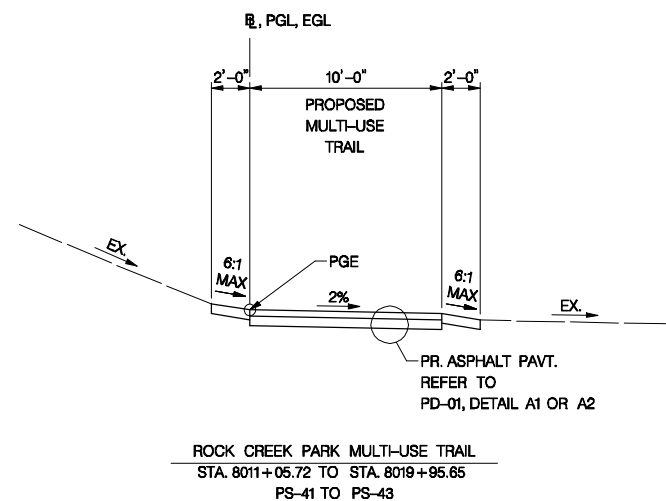
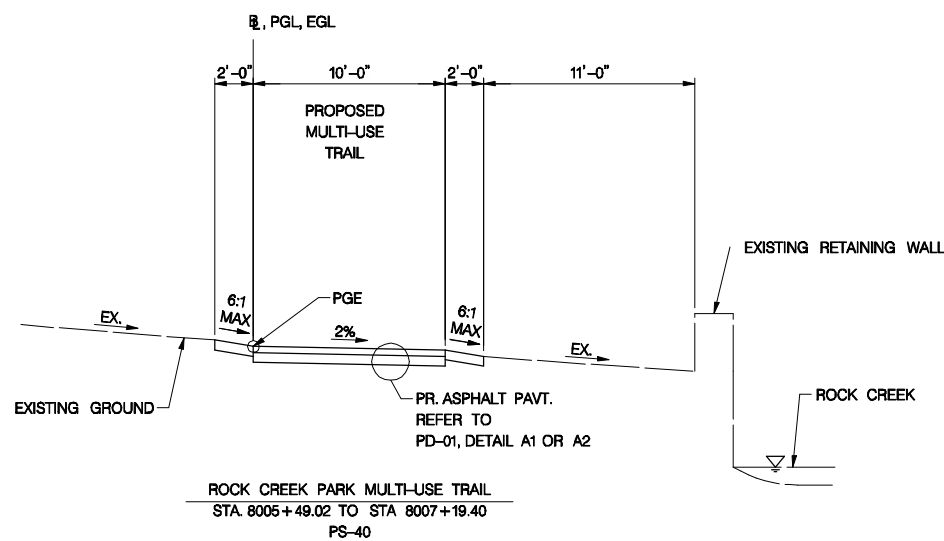
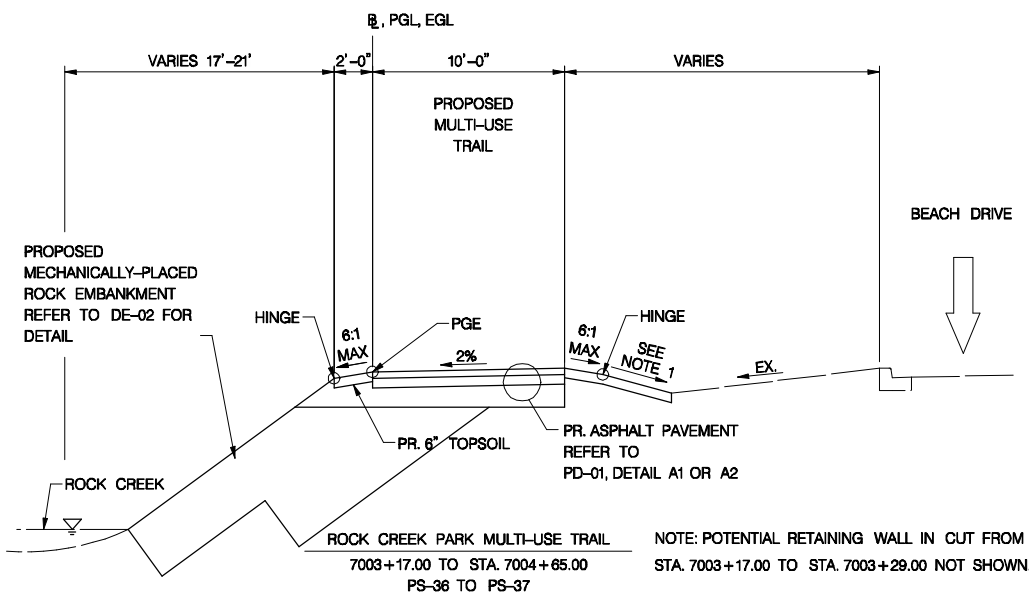
DATE: 09-13-2013	SCALE: 1"=5'	TS-05
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		
ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
TYPICAL SECTIONS		DIVISION CHIEF _____ DATE _____ FILE _____ SHEET 021 OF 124

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REVISIONS			

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Thursday, September 12, 2013 AT 03:30 PM
us:\2026031049\012 rock_creek_park_trail\trans\cadd\sheet_files\pht-P005_r.ctb.dgn



NO WORK IN THIS AREA
SHOWN FOR INFORMATION ONLY

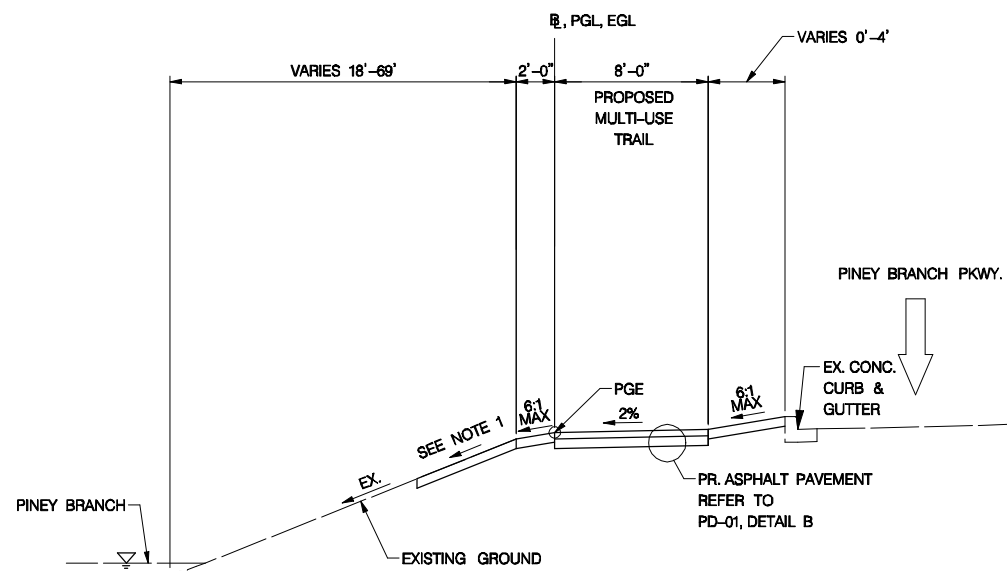
- NOTES:
1) REFER TO TS-08, FOR CUT AND FILL SLOPE CRITERIA DETAILS.

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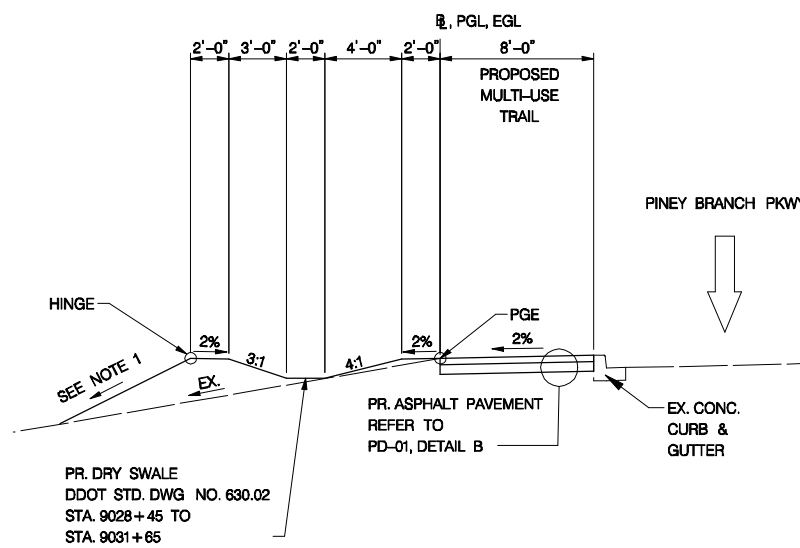


NO.	DESCRIPTION	NAME	DATE
REVISIONS			

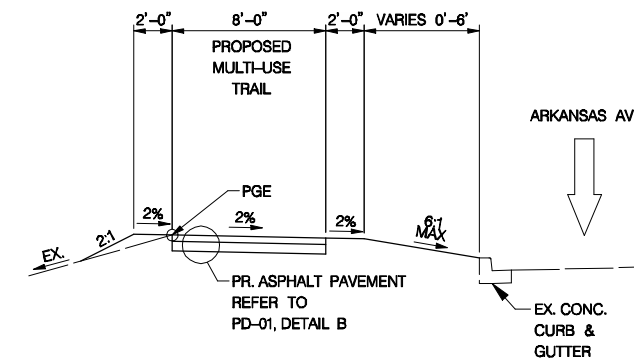
DATE: 09-13-2013	SCALE: 1"=5'	TS-06
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		
ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
TYPICAL SECTIONS		DIVISION CHIEF _____
		DATE _____ FILE _____ SHEET 022 OF 124



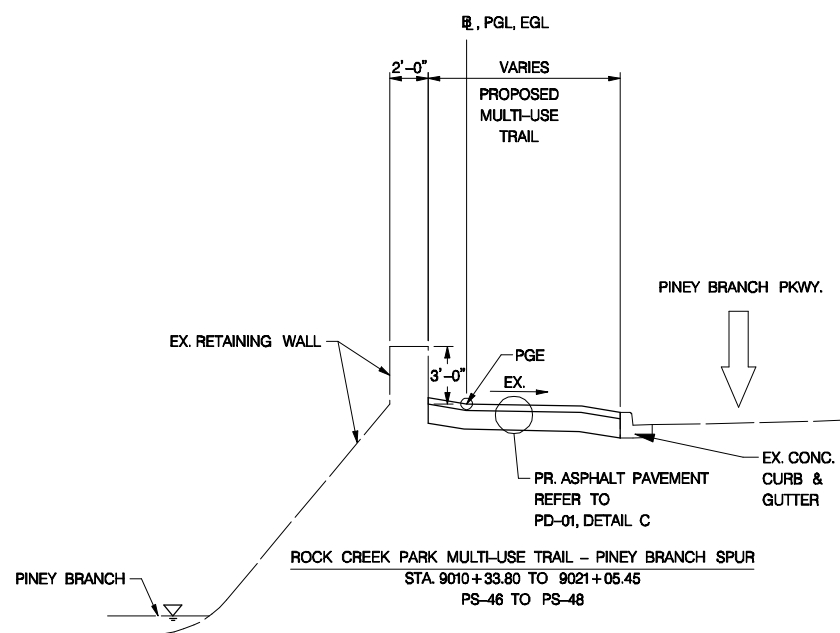
ROCK CREEK PARK MULTI-USE TRAIL - PINEY BRANCH SPUR
STA. 9001+74.07 TO STA. 9010+33.80
PS-45 TO PS-46



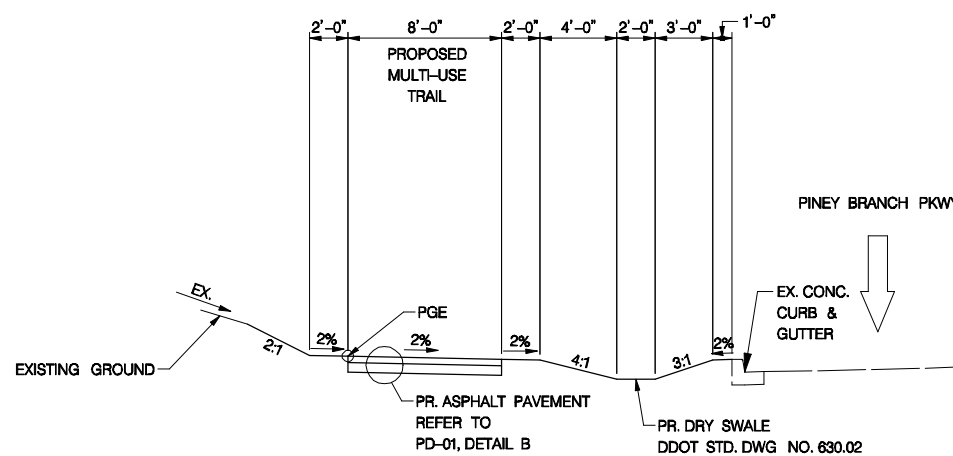
ROCK CREEK PARK MULTI-USE TRAIL - PINEY BRANCH SPUR
STA. 9021+05.45 TO STA. 9032+10
PS-48 TO PS-50



ROCK CREEK PARK MULTI-USE TRAIL - PINEY BRANCH SPUR
STA. 9043+63.01 TO STA. 9048+76.06
PS-52 TO PS-53



ROCK CREEK PARK MULTI-USE TRAIL - PINEY BRANCH SPUR
STA. 9010+33.80 TO STA. 9021+05.45
PS-46 TO PS-48



ROCK CREEK PARK MULTI-USE TRAIL - PINEY BRANCH SPUR
STA. 9032+10 TO STA. 9043+63.01
PS-50 TO PS-52

NOTES:
1) REFER TO TS-08, FOR CUT AND FILL SLOPE CRITERIA DETAILS.

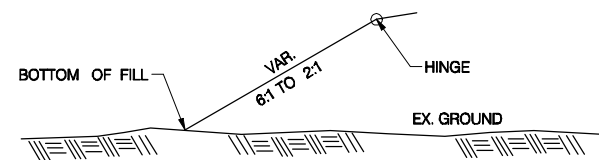
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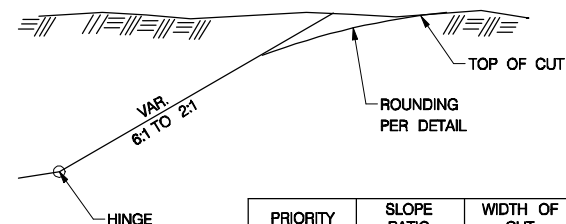
NO.	DESCRIPTION	NAME	DATE
REVISIONS			

DATE: 09-13-2013	SCALE: 1"=5'	TS-07
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		
ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
TYPICAL SECTIONS		DIVISION CHIEF _____
		DATE _____ FILE _____ SHEET 023 OF 124



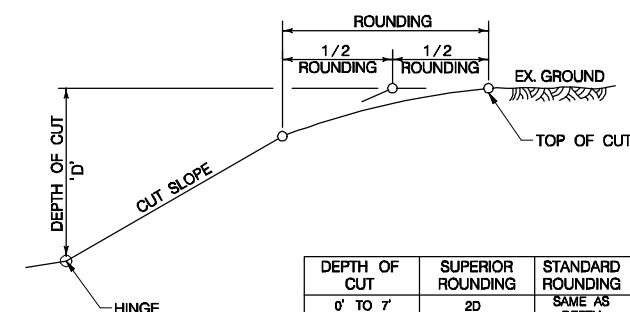
PRIORITY	SLOPE RATIO	WIDTH OF FILL
1	6:1	0' TO 20'
2	4:1	0' TO 20'
3	2:1	> 20'

DETAIL A
FILL SLOPE RATIOS



PRIORITY	SLOPE RATIO	WIDTH OF CUT
1	6:1	0' TO 20'
2	4:1	0' TO 20'
3	2:1	> 20'

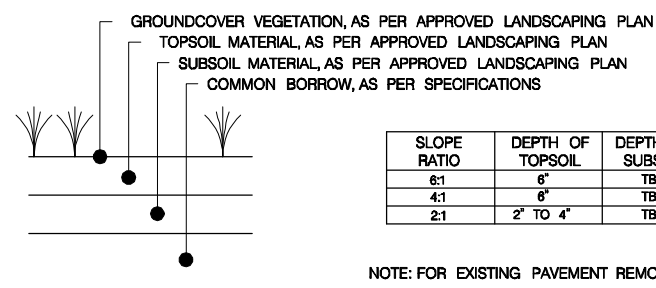
DETAIL B
CUT SLOPE RATIOS



DEPTH OF CUT	SUPERIOR ROUNDING	STANDARD ROUNDING
0' TO 7'	2D	SAME AS DEPTH OF CUT (10' MAX)
8' TO 12'	D+7	
> 12'	20	

'D' = DEPTH OF CUT

DETAIL C
CUT SLOPE ROUNDING



SLOPE RATIO	DEPTH OF TOPSOIL	DEPTH OF SUBSOIL
6:1	6"	TBD
4:1	6"	TBD
2:1	2' TO 4'	TBD

NOTE: FOR EXISTING PAVEMENT REMOVAL, EXCAVATE AND REMOVE TO BOTTOM OF AGGREGATE BASE

DETAIL D
TOPSOIL, SUBSOIL, AND TURFGRASS ESTABLISHMENT

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NO.	DESCRIPTION	NAME	DATE

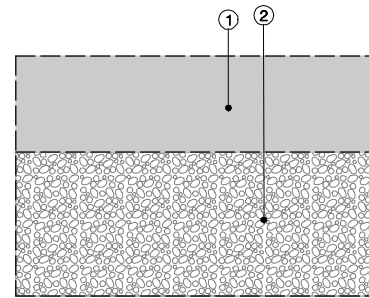
DATE: 09-13-2013	TS-08
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION	
ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL	
PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____	
TYPICAL SECTION DETAILS	
DIVISION CHIEF _____ DATE _____ FILE _____ SHEET 024 OF 124	

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		025	124

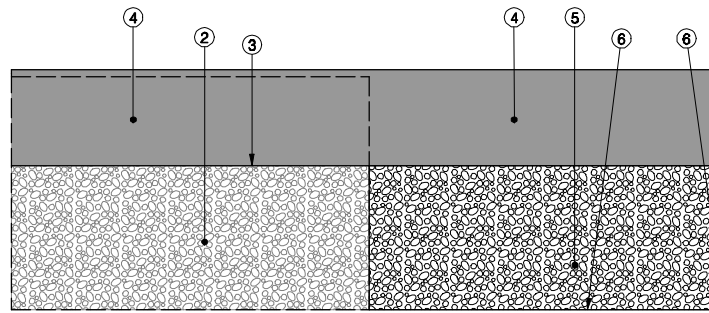
- NOTES:
- ① EX. PAVEMENT 1.5" - 3"
 - ② EX. AGGREGATE BASE 4" - 6"
 - ③ MILL EX. PAVEMENT TO TOP OF EXISTING AGGREGATE BASE
 - ④ 4" HOT MIX ASPHALT SUPERPAVE, PG 64-22, 12.5-mm SURFACE COURSE, (ITEM NO. 4.2010) (PLACE IN 2" LIFTS)
 - ⑤ 6" AGGREGATE BASE COURSE (AS PER DDOT STANDARD SPECIFICATIONS SECTION 804.04(A))
 - ⑥ GEOTEXTILE FOR SEPARATION
 - ⑦ PULVERIZE AND COMPACT EX. PAVEMENT INTO RECLAIMED 8" AGGREGATE BASE. ADD CLEAN AGGREGATE AND SEALANT AS SPECIFIED.
 - ⑧ CLEAN AND SEAL CRACKS IN EX. PAVEMENT; SCARIFY
 - ⑨ TACK COAT
 - ⑩ 2" HOT MIX ASPHALT SUPERPAVE, PG 64-22, 12.5-mm SURFACE COURSE, (ITEM NO. 4.2010) (PLACE IN 2" LIFTS)

NOTE: GEOTECHNICAL INVESTIGATION AND REPORT, DATED SEPTEMBER 6, 2013 PREPARED BY:

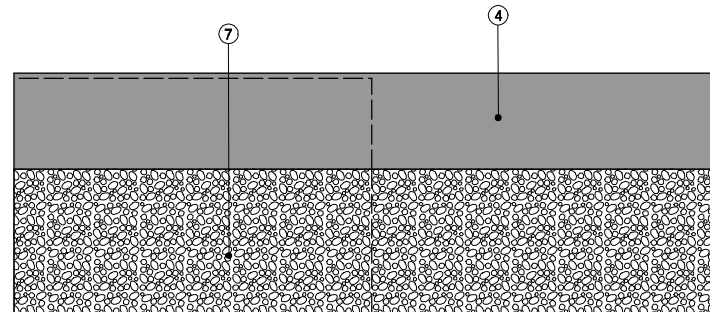
THOMAS L. BROWN ASSOCIATES, PC
 A DIVISION OF SOIL AND LAND USE TECHNOLOGY, INC. (SaLUT)
 1818 NEW YORK AVENUE, NE, SUITE 107
 WASHINGTON, DC 20002
 www.tbinc.net



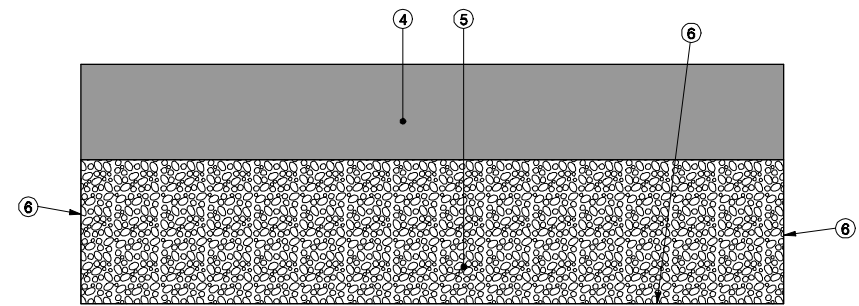
DETAIL O
EXISTING PAVEMENT



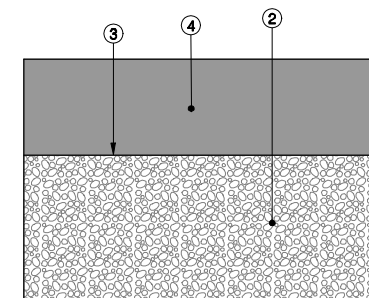
DETAIL A1
MILL / RESURFACE / WIDEN PAVEMENT (OPTION 1)



DETAIL A2
RECLAMATION / WIDEN PAVEMENT (OPTION 2)



DETAIL B
NEW TRAIL



DETAIL C
MILL / RESURFACE PAVEMENT

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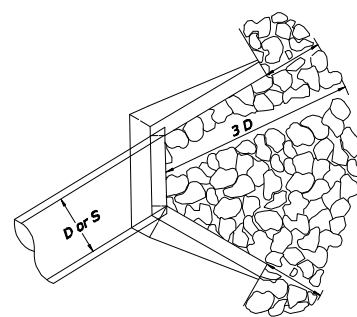
NO.	DESCRIPTION	NAME	DATE

DATE: 09-13-2013	SCALE: N.T.S.	PD-01
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		
ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
PAVEMENT DETAILS		DIVISION CHIEF _____
		DATE _____
		FILE _____
		SHEET 025 OF 124

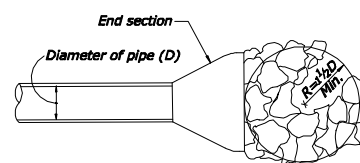
Thursday, September 12, 2013 AT 03:30 PM
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DEPTH (d)	
Riprap Class	Depth (d)-(in)
2	18
3	24
4	30

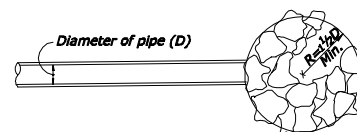
DEPTH (d)	
Riprap Class	Depth (d)-(in)
2	18
3	24
4	30



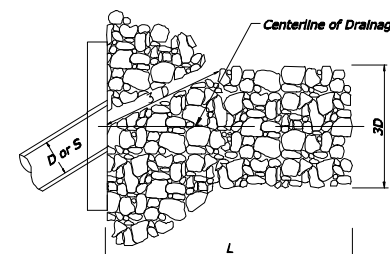
PLAN



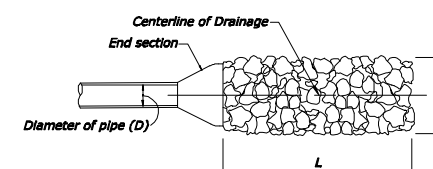
PLAN



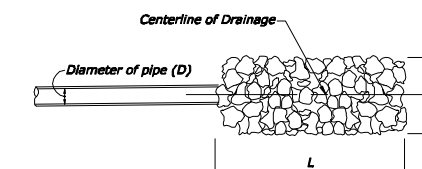
PLAN



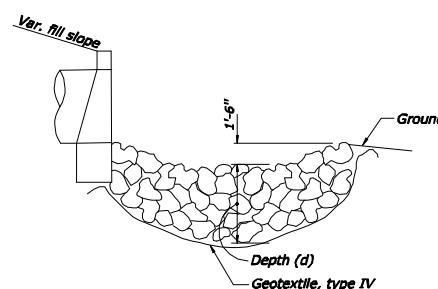
PLAN



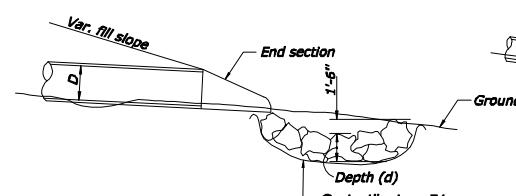
PLAN



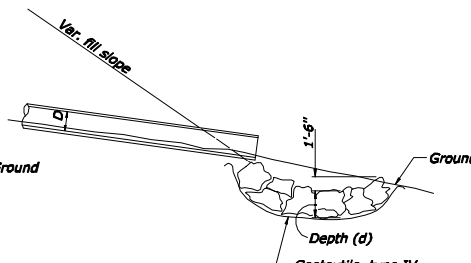
PLAN



ELEVATION
CULVERT WITH HEADWALL



ELEVATION
CULVERT WITH END SECTION



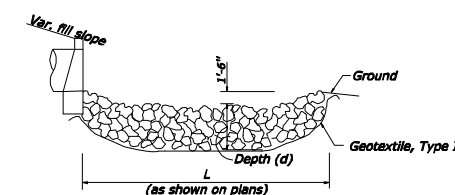
ELEVATION
CULVERT WITH NO
END TREATMENT

NOTE:
For arch or elliptical pipes, use
equivalent diameter for (D) dimension

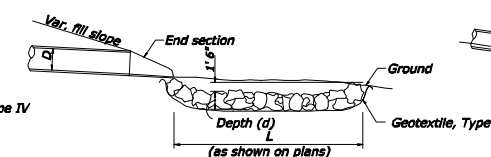
U.S. DEPARTMENT OF TRANSPORTATION
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EASTERN FEDERAL LANDS HIGHWAY DIVISION
U.S. CUSTOMARY DETAIL
**LOOSE RIPRAP
AT CULVERT**
DETAIL APPROVED FOR USE: _____
APPROVED: 1 MAY 2011

NO SCALE

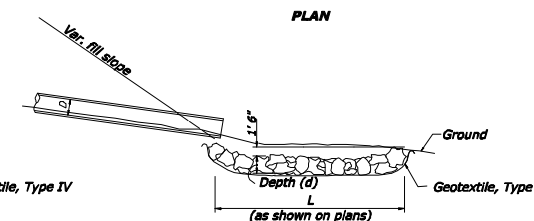
DETAIL
E251-01



ELEVATION
CULVERT WITH HEADWALL



ELEVATION
CULVERT WITH END SECTION



ELEVATION
CULVERT WITH NO
END TREATMENT

NOTE:
For arch or elliptical pipes, use
equivalent diameter for (D) dimension

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
EASTERN FEDERAL LANDS HIGHWAY DIVISION
U.S. CUSTOMARY DETAIL
**LOOSE RIPRAP CHANNEL
AT CULVERT**
DETAIL APPROVED FOR USE: _____
APPROVED: 1 MAY 2011

NO SCALE

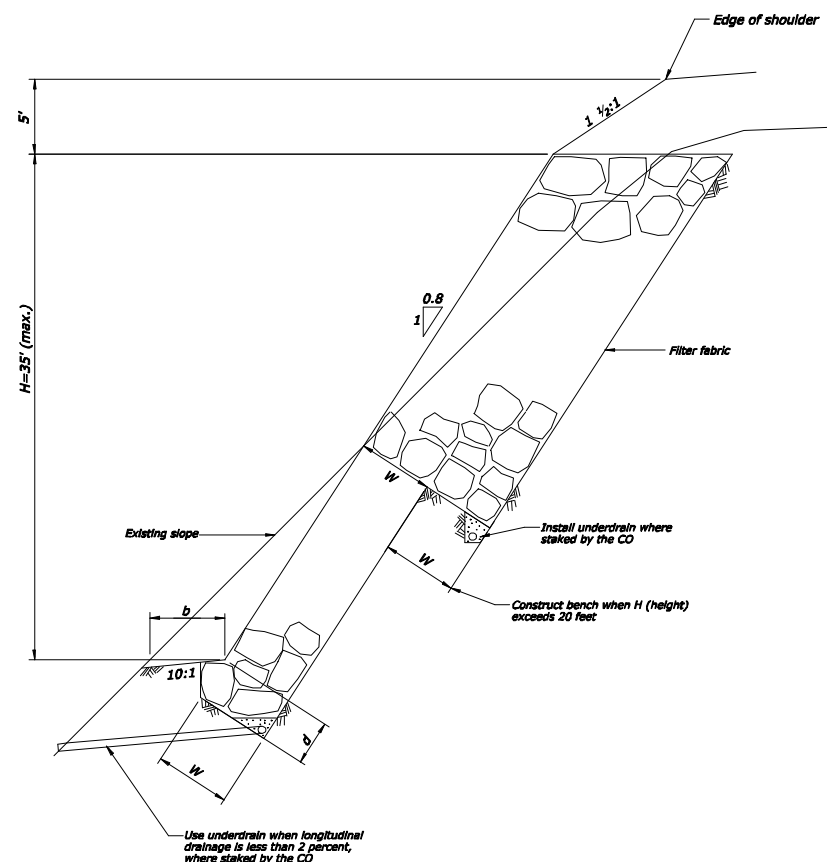
DETAIL
E251-02

DATE: 09-13-2013	NOT TO SCALE	DE-01
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		
ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
DETAILS		DIVISION CHIEF _____
		DATE _____ FILE _____ SHEET 026 OF 124


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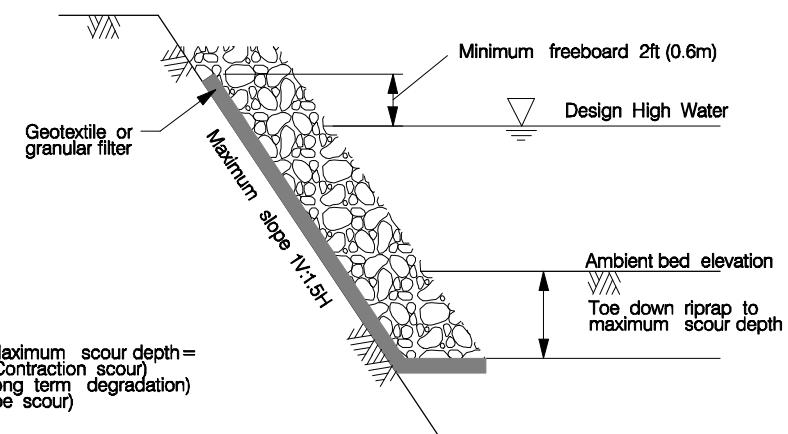


NOTE:
 1. Size of Rocks. Not less than 50% to be 12 Cu. ft. or larger. Rocks to be irregular in shape. When rocks vary in size, place larger rock in bottom of embankment.

MATERIAL	b	d	W
Rock (requiring blasting)	2' (min.)	0-3'	3'
Weathered rock or sandy soil	5' (min.)	3' (min.)	5'-10'
Cohesive soil	5' (min.)	5' (min.)	10'

U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 EASTERN FEDERAL LANDS HIGHWAY DIVISION
 U.S. CUSTOMARY DETAIL
**MECHANICALLY PLACED
 ROCK EMBANKMENT**
 U.S. CUSTOMARY DETAIL
 E252-01

NO SCALE



DETAIL A - RIP-RAP REVETMENT

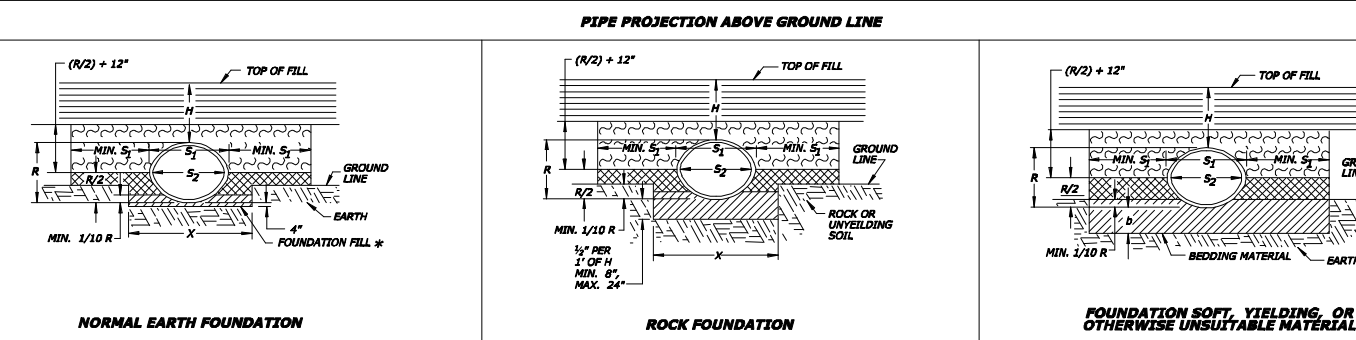
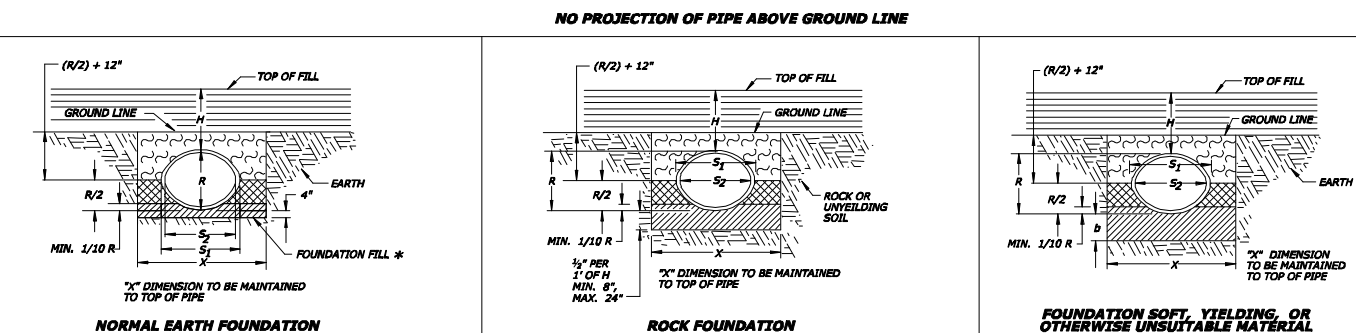
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REVISIONS			

DATE: 09-13-2013	NOT TO SCALE	DE-02
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		
ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
DETAILS		DIVISION CHIEF _____
		DATE _____ FILE _____ SHEET 027 OF 124



CULVERTS LESS THAN $S_1 = 36"$
 $X = S_2 + 24"$

CULVERTS WHERE $S_1 = 36"$ AND OVER
 $X = S_2 + 36"$

METHOD "A" PIPE BEDDING SHALL BE USED AS FOLLOWS UNLESS OTHERWISE NOTED ON PLANS:

RIGID PIPE
 WHEN H IS LESS THAN OR EQUAL TO $30"$

FLEXIBLE PIPE
 AS SHOWN ON TABLES

*** MAY BE ELIMINATED UNDER ENTRANCE PIPE WHERE DIRECTED BY THE CO.**

LEGEND:

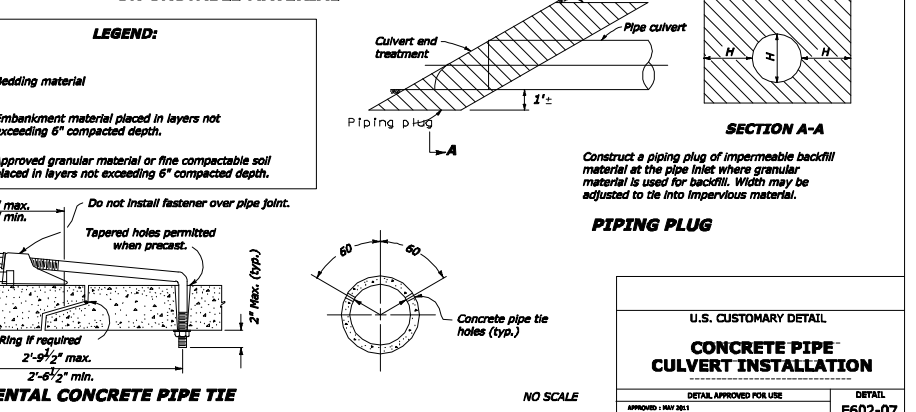
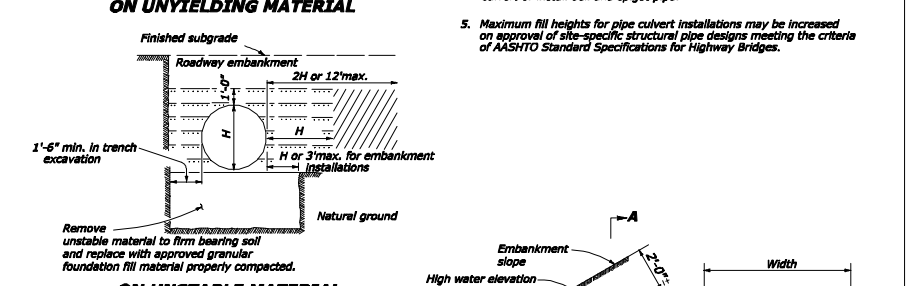
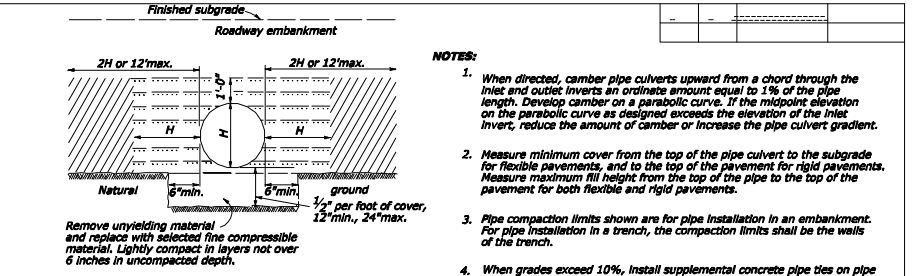
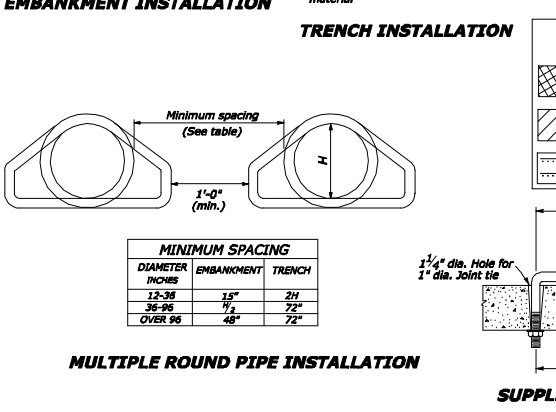
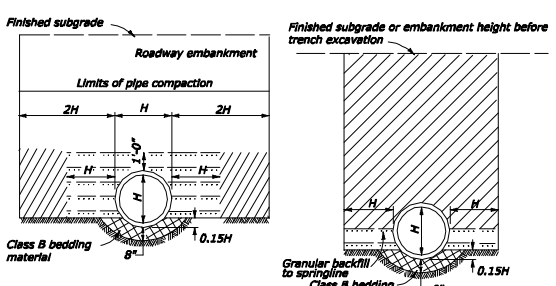
- FOUNDATION FILL MATERIAL IN ACCORDANCE WITH SUBSECTIONS 209 AND 704.01
- BACKFILL MATERIAL IN ACCORDANCE WITH SUBSECTIONS 209.10 AND 704.03
- SUITABLE ROADWAY EXCAVATION OR UNCLASSIFIED BORROW MATERIAL IN ACCORDANCE WITH SUBSECTION 209.10
- EMBANKMENT

U.S. CUSTOMARY DETAIL
ELLIPTICAL CONCRETE PIPE CULVERT INSTALLATION
E602-07

ADOPTED FROM: VIRGINIA DEPARTMENT OF TRANSPORTATION STANDARD P-1, PAGE 137.02
 APPROVED 1 MAY 2011

CONCRETE ROUND PIPE CULVERT
FILL HEIGHT AND PIPE CLASS TABLE

PIPE SIZE DIAMETER INCHES	EMBANKMENT					TRENCH				
	CLASS II	CLASS III	CLASS IV	CLASS V	CLASS II	CLASS III	CLASS IV	CLASS V	CLASS V	
12	12	11	11	16	23	18	18	26	37	
18	12	10	10	25	39	14	14	31	45	
24	12	11	11	15	31	15	15	22	40	
30	12	9	13	16	35	13	17	20	46	
36	12	9	9	20	41	11	14	25	56	
48	12	12	14	26	46	16	17	31	59	
60	12	15	17	28	44	15	20	32	50	
72	12	13	17	31	41	16	20	33	49	
84	12	15	19	31	41	15	23	37		
96	12	13	20			16	24			
108	12	16	20			19	26			



- NOTES:**
- When directed, camber pipe culverts upward from a chord through the inlet and outlet inverts an ordinate amount equal to 1% of the pipe length. Develop camber on a parabolic curve. If the midpoint elevation on the parabolic curve as designed exceeds the elevation of the inlet invert, reduce the amount of camber or increase the pipe culvert gradient.
 - Measure minimum cover from the top of the pipe culvert to the subgrade for flexible pavements, and to the top of the pavement for rigid pavements. Measure maximum fill height from the top of the pipe to the top of the pavement for both flexible and rigid pavements.
 - Pipe compaction limits shown are for pipe installation in an embankment. For pipe installation in a trench, the compaction limits shall be the walls of the trench.
 - When grades exceed 10%, install supplemental concrete pipe ties on pipe culvert or install bell and spigot pipe.
 - Maximum fill heights for pipe culvert installations may be increased on approval of site-specific structural pipe designs meeting the criteria of AASHTO Standard Specifications for Highway Bridges.

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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

DATE: 09-13-2013 NOT TO SCALE DE-03

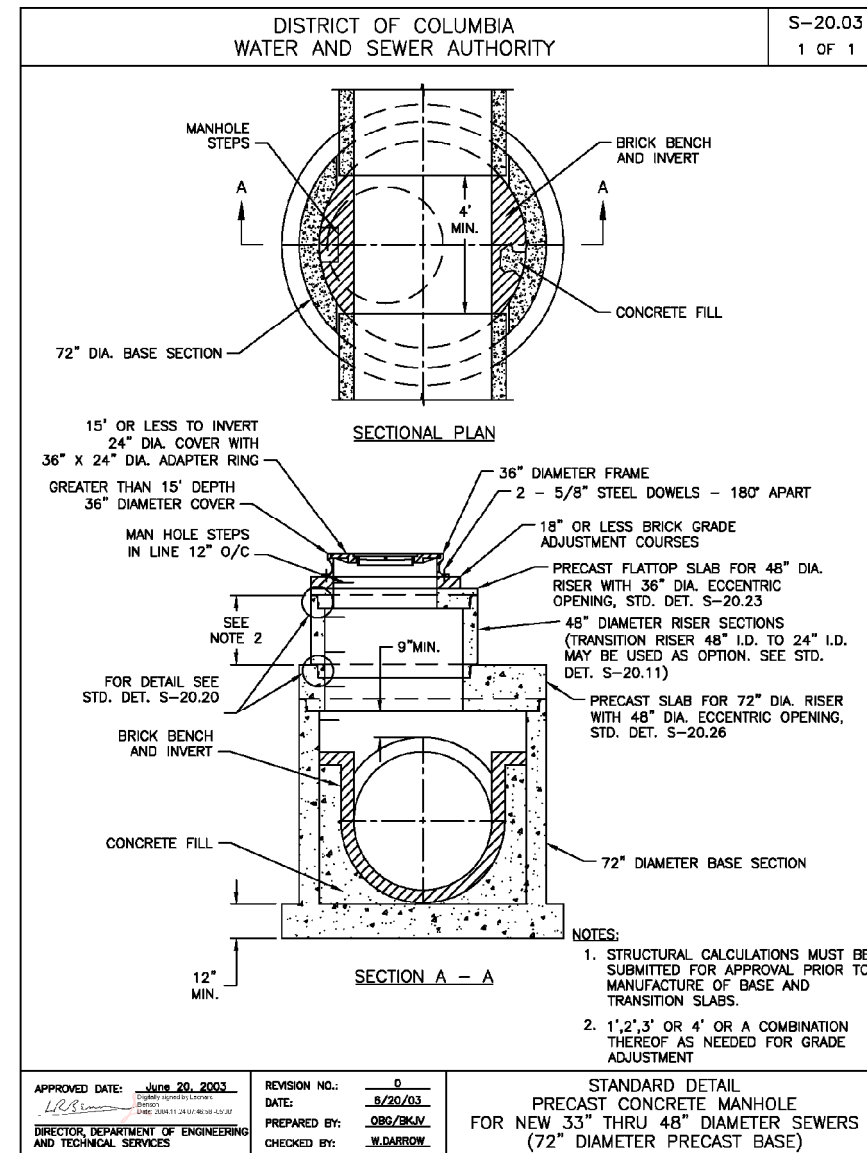
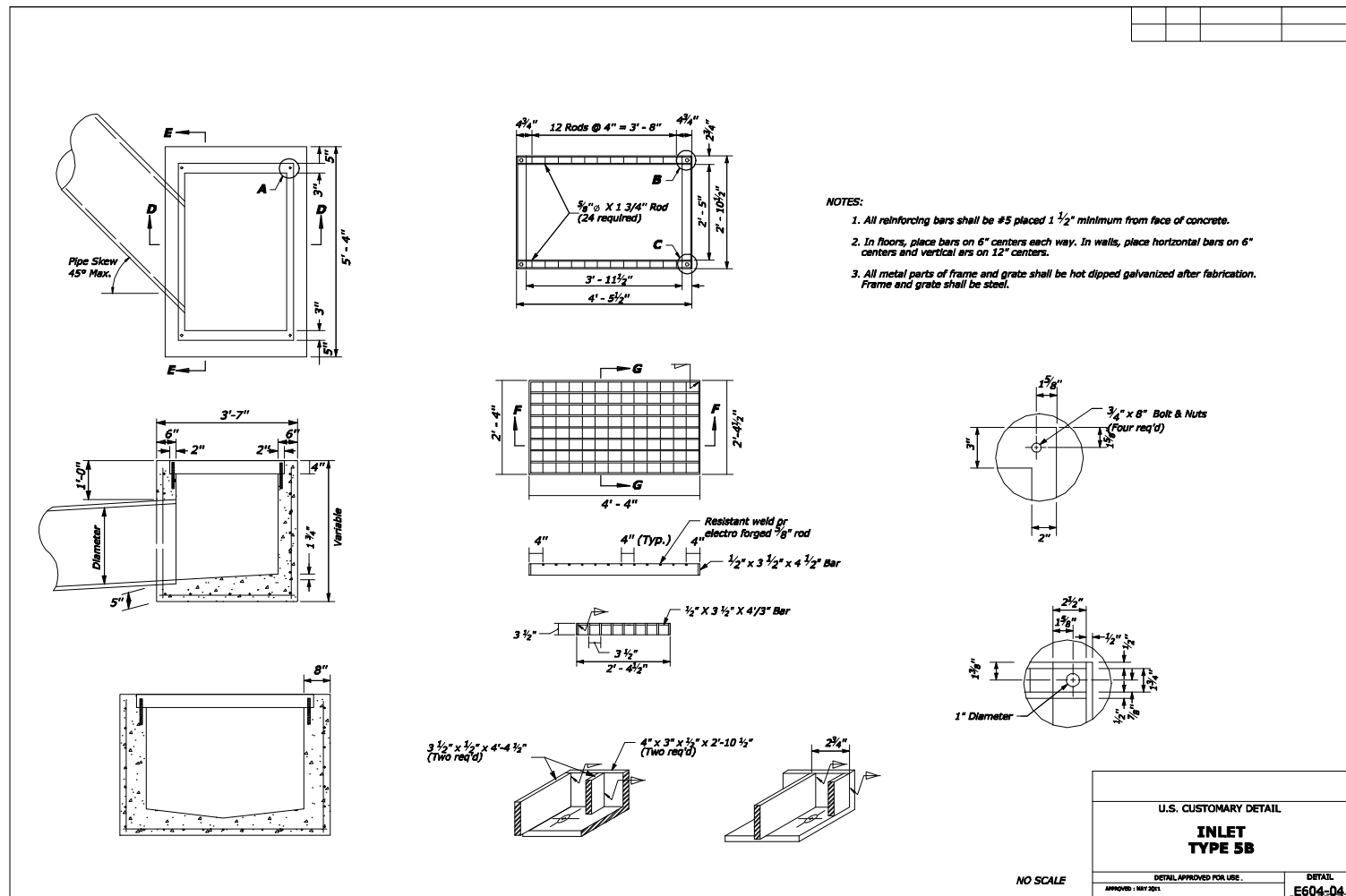
D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
 MULTI-USE TRAIL REHABILITATION
 30% DESIGN SUBMITTAL

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DIVISION CHIEF _____

DATE _____
 FILE _____
 SHEET 028 OF 124



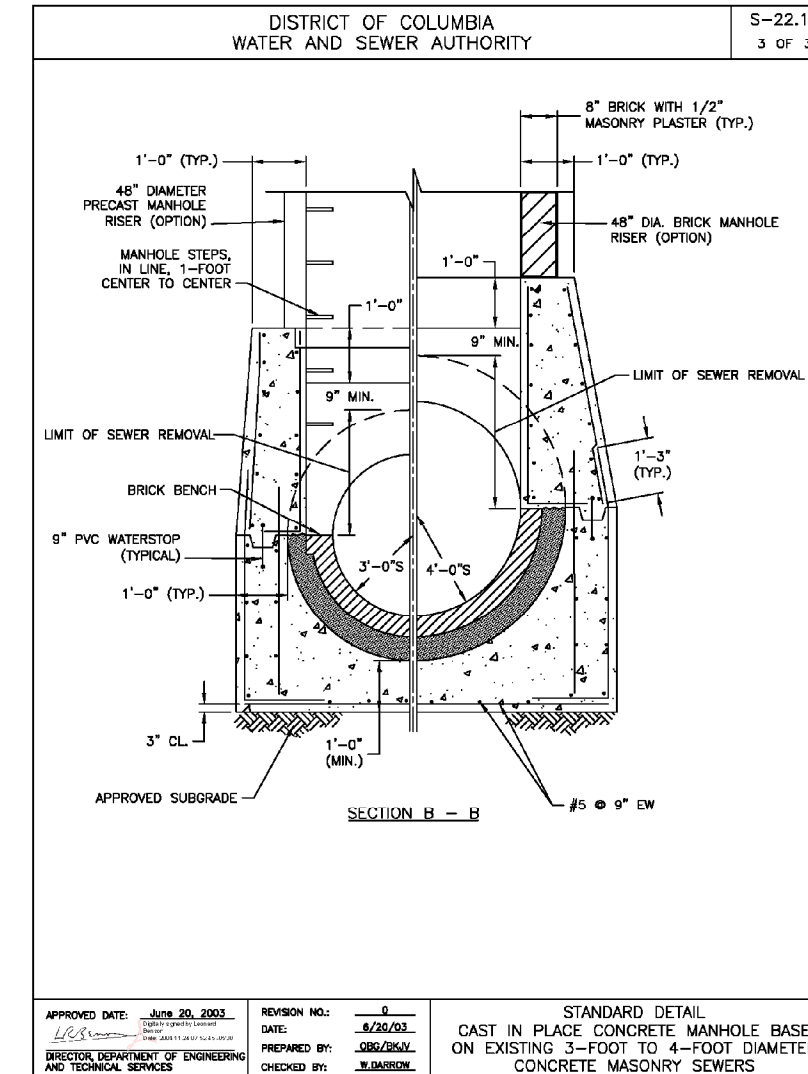
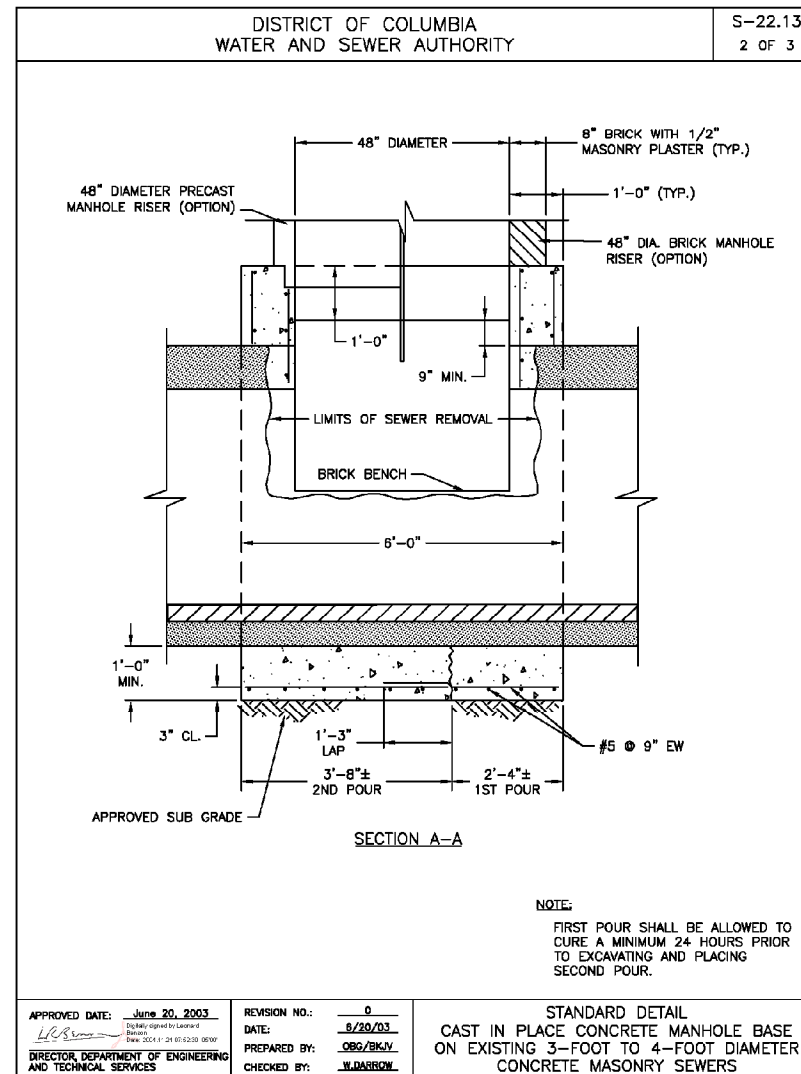
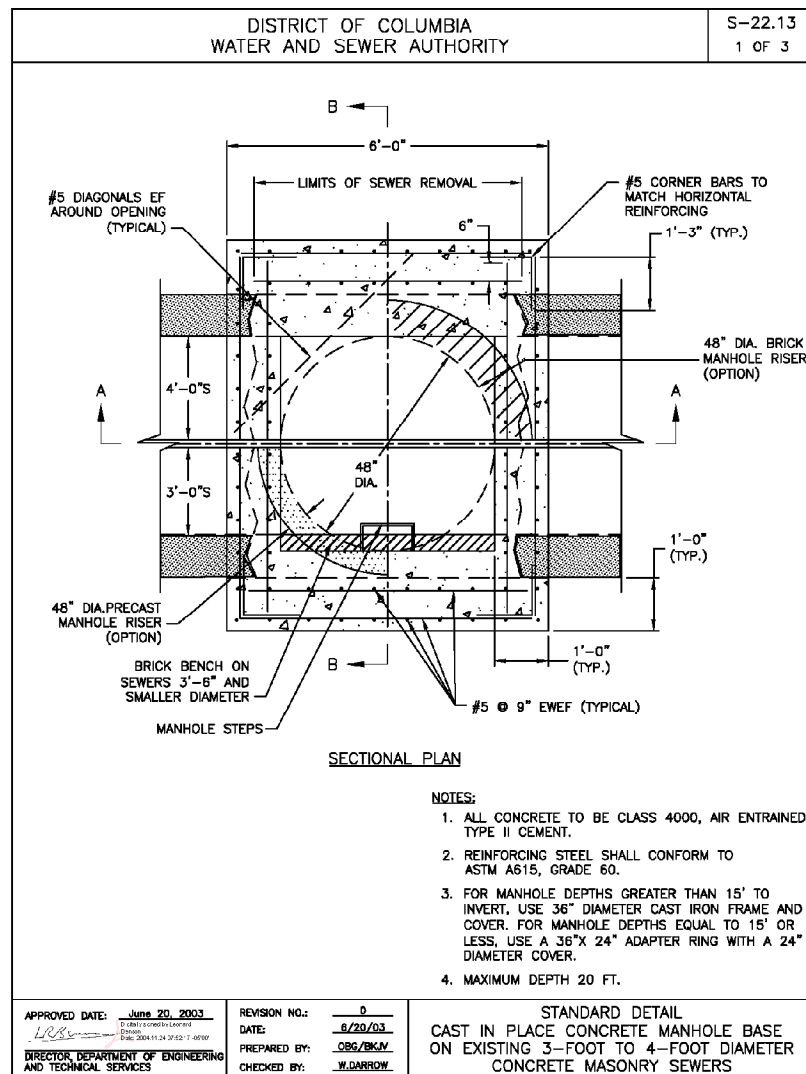
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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

DATE: 09-13-2013	NOT TO SCALE	DE-04
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		
ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
DETAILS		DIVISION CHIEF _____
		DATE _____ FILE _____ SHEET 029 OF 124



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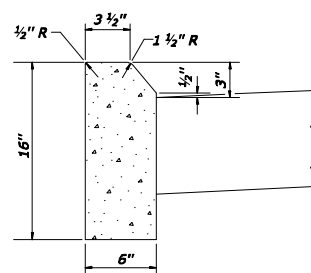
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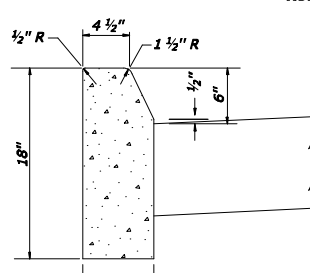
NO.	DESCRIPTION	NAME	DATE

DATE: 09-13-2013	NOT TO SCALE	DE-05
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		
ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
DETAILS		DIVISION CHIEF _____
		DATE _____
		FILE _____
		SHEET 030 OF 124



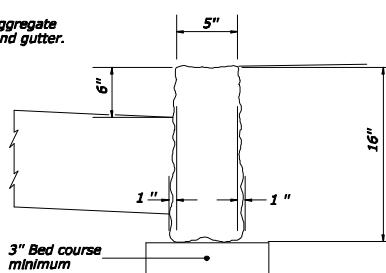
16-INCH DEPTH
(MOUNTABLE)

PORTLAND CEMENT CONCRETE CURB



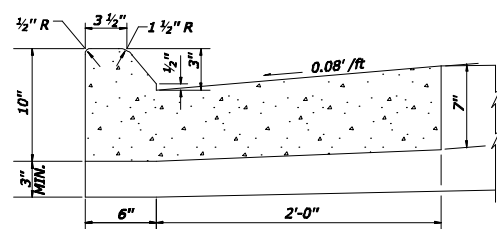
18-INCH DEPTH
(NON-MOUNTABLE)

Note:
1. Place 3-inches, minimum aggregate bed course under all curb and gutter.



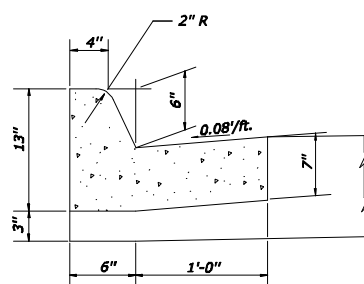
3" Bed course minimum

STONE CURB
16-INCH DEPTH
(NON-MOUNTABLE)

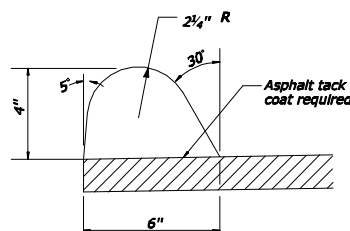


10-INCH DEPTH
(MOUNTABLE)

PORTLAND CEMENT CONCRETE CURB AND GUTTER



13-INCH DEPTH
(NON-MOUNTABLE)



ASPHALT CONCRETE CURB
4-INCH DEPTH
(NON-MOUNTABLE)

Asphalt tack coat may be rapid curing liquid asphalt or emulsified asphalt.

NO SCALE

U.S. CUSTOMARY DETAIL	
CURBS	
DETAIL APPROVED FOR USE:	DETAIL 5609-01 (NOV-03)
APPROVED: MAY 2013	

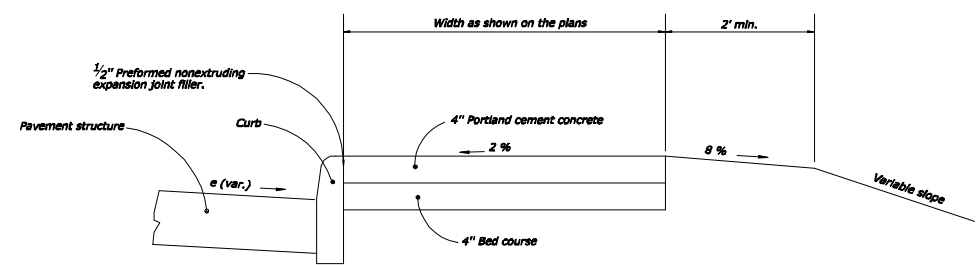
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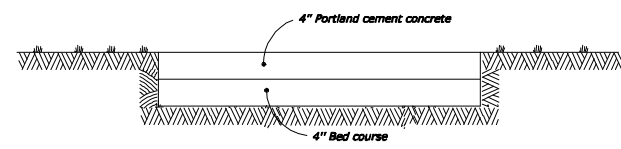
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DATE: 09-13-2013	NOT TO SCALE	DE-06
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ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
DETAILS		DIVISION CHIEF _____ DATE _____ FILE _____ SHEET 031 OF 124



SIDEWALK WITH CURB

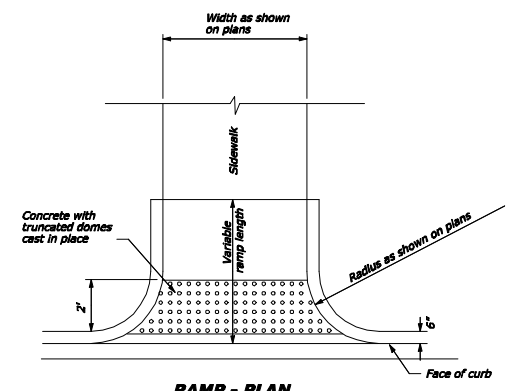


SIDEWALK

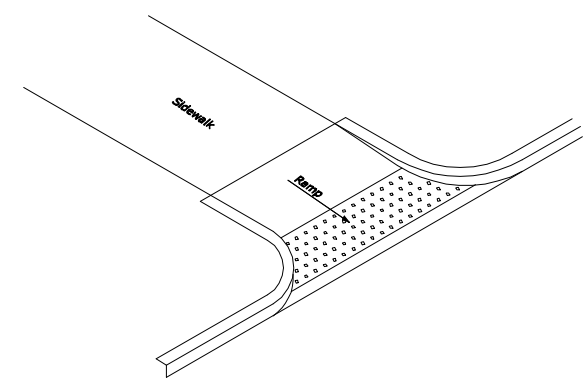
- NOTES:**
1. Place $\frac{3}{4}$ -inch transverse expansion joints at intervals of not more than 60 feet to match adjacent curb expansion joints.
 2. Place dummy joints at intervals equal to the width of the sidewalk as shown on the plans.

U.S. CUSTOMARY DETAIL
PORTLAND CEMENT CONCRETE SIDEWALK
 DETAIL APPROVED FOR USE: _____ DATE: _____
 APPROVED: MAY 2011 DETAIL: **E615-01**

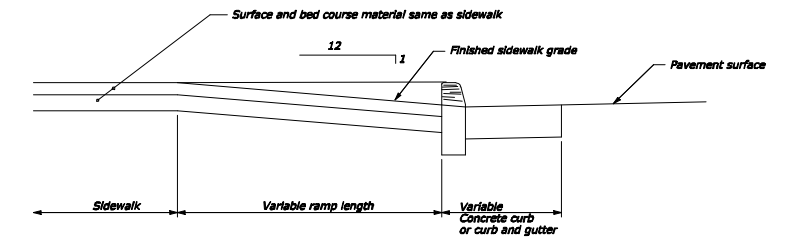
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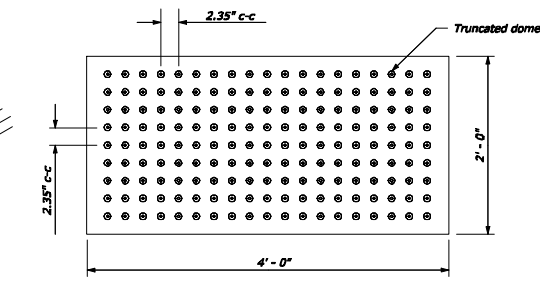
RAMP - PLAN



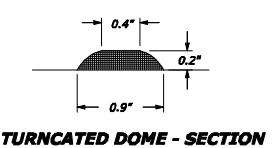
RAMP - ISOMETRIC



RAMP - TYPICAL SECTION



DETECTABLE WARNING SURFACE



TRUNCATED DOME - SECTION

U.S. CUSTOMARY DETAIL
WHEEL CHAIR RAMP CURB RETURN
 DETAIL APPROVED FOR USE: _____ DATE: _____
 APPROVED: MAY 2011 DETAIL: **E615-05**

NO SCALE

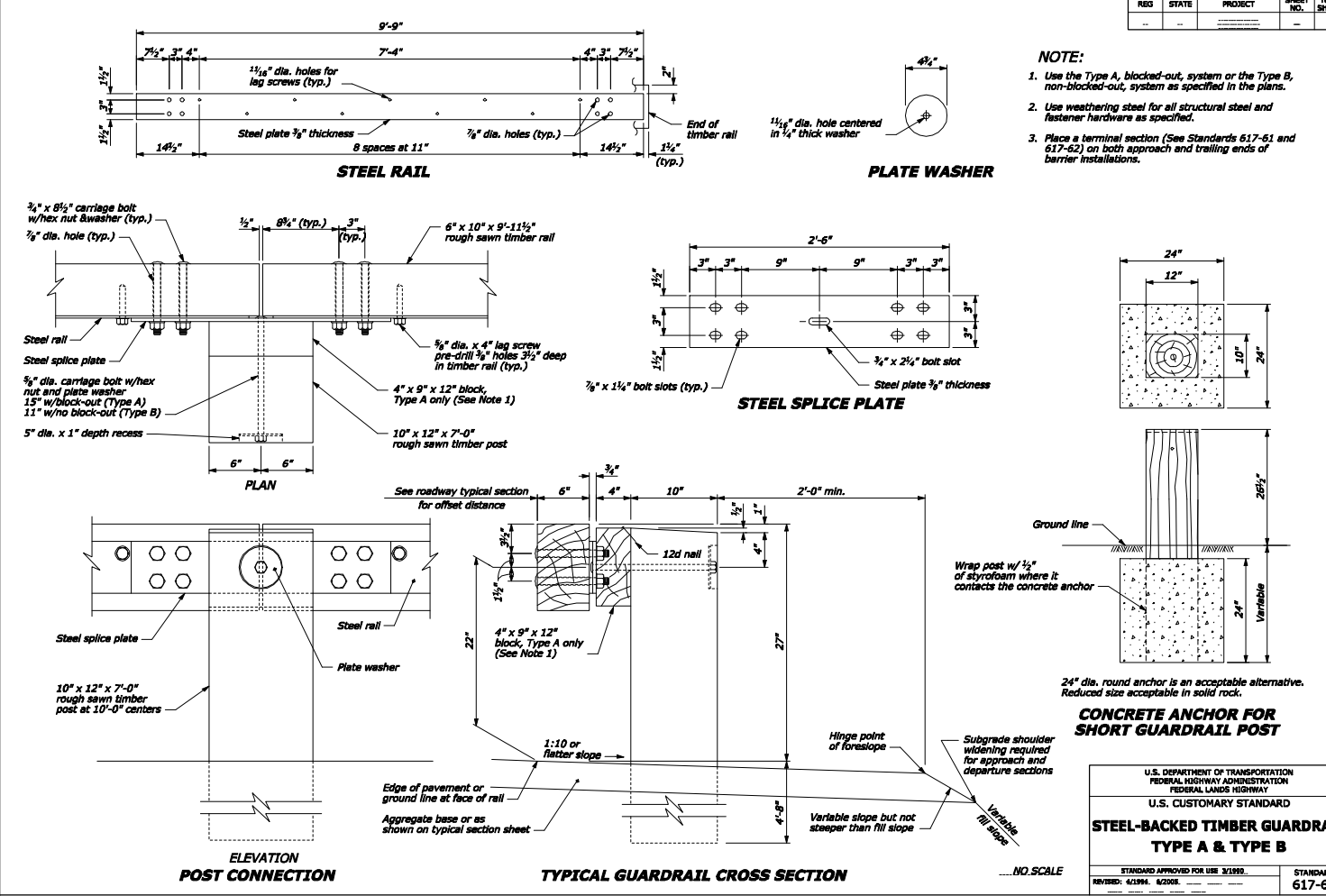
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NO.	DESCRIPTION	NAME	DATE

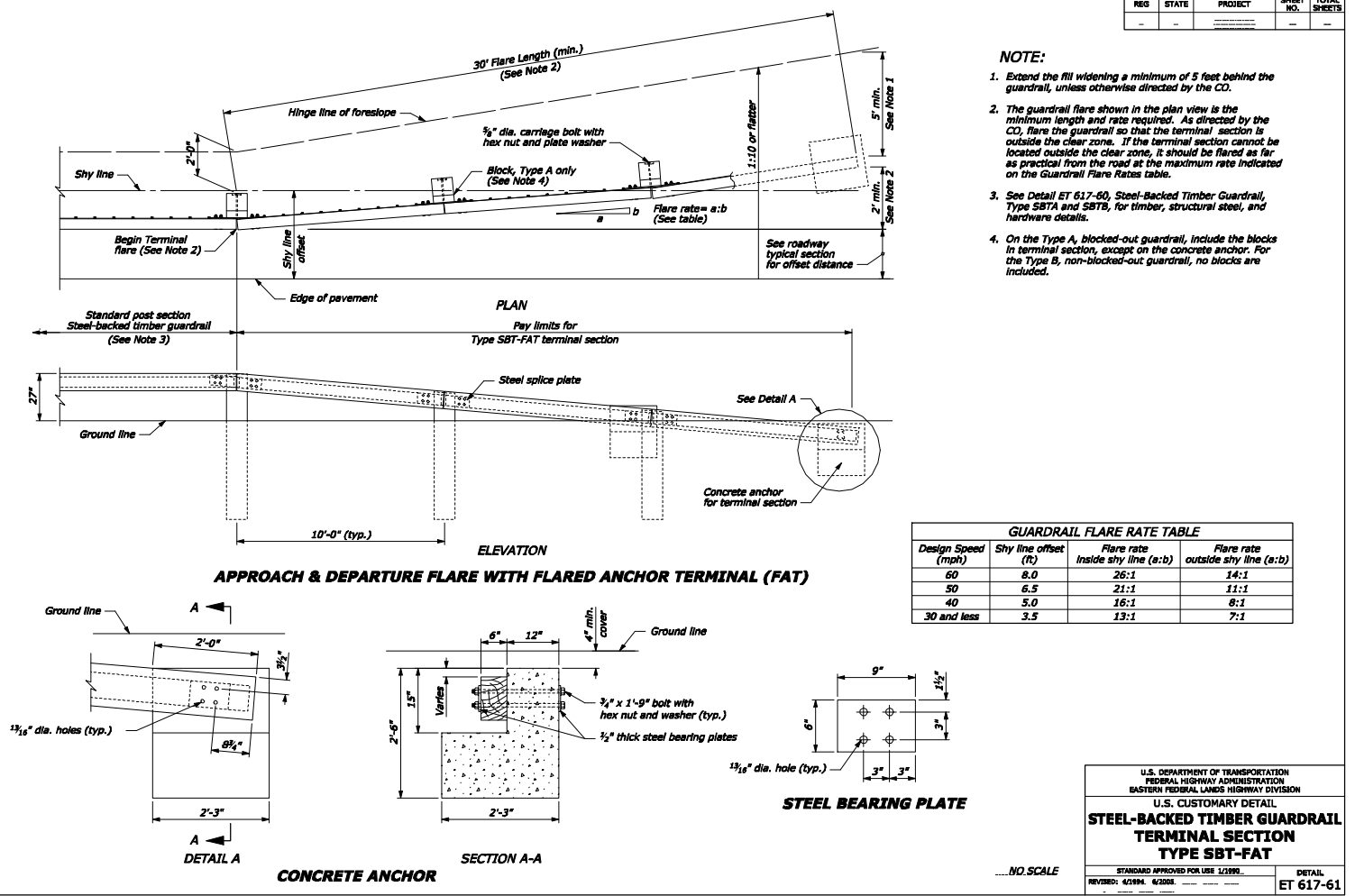
DATE: 09-13-2013	NOT TO SCALE	DE-07
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		
ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
DETAILS		DIVISION CHIEF _____ DATE _____ FILE _____ SHEET 032 OF 124

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NOTE:

1. Use the Type A, blocked-out, system or the Type B, non-blocked-out, system as specified in the plans.
2. Use weathering steel for all structural steel and fastener hardware as specified.
3. Place a terminal section (See Standards 617-61 and 617-62) on both approach and trailing ends of barrier installations.



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NO.	DESCRIPTION	NAME	DATE

DATE: 09-13-2013 DE-08

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 PROJECT MANAGEMENT DIVISION

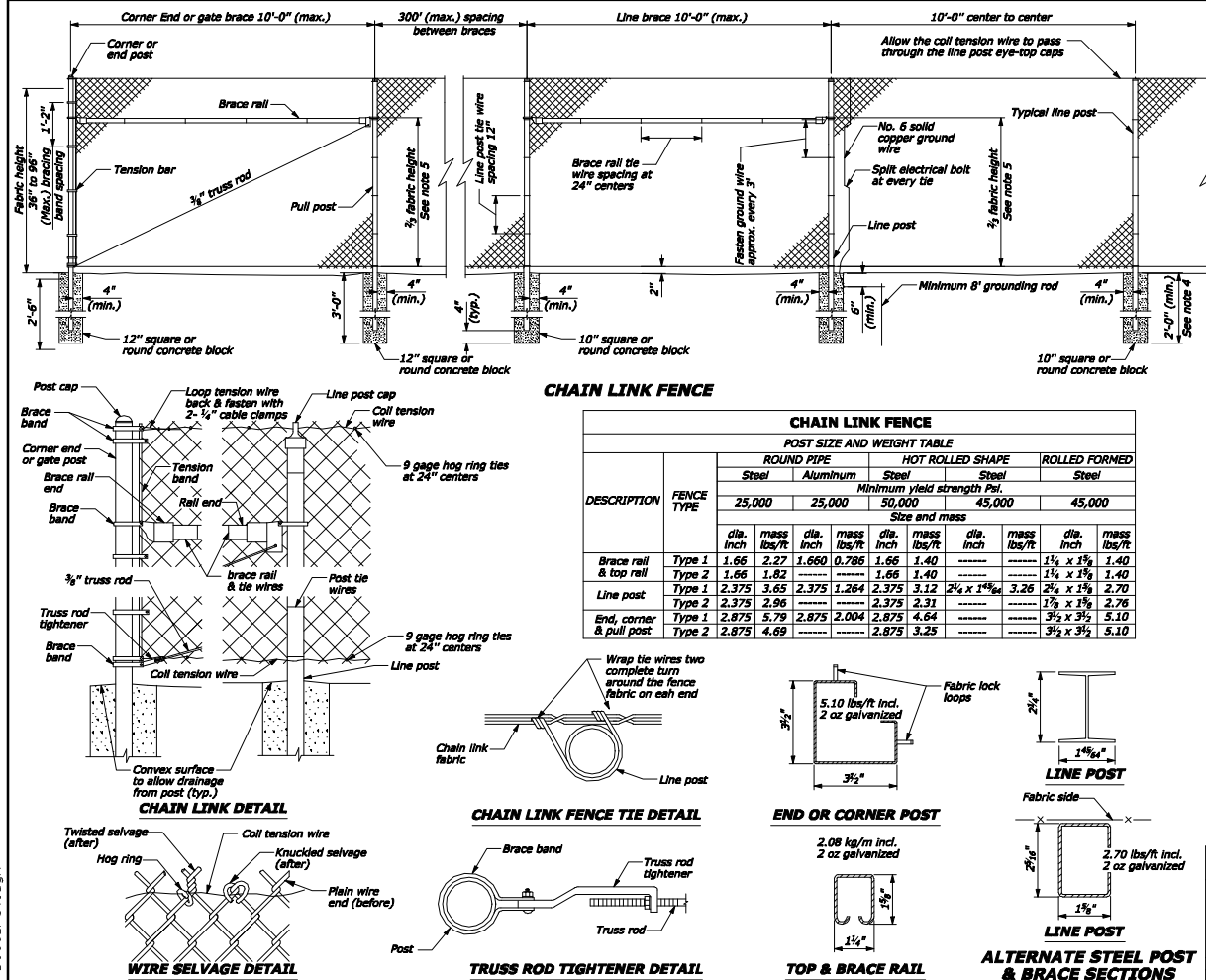
ROCK CREEK PARK
 MULTI-USE TRAIL REHABILITATION
 30% DESIGN SUBMITTAL

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DIVISION CHIEF

DATE _____
 FILE _____
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DESCRIPTION	FENCE TYPE	STEEL	ALUMINUM	STEEL	ALUMINUM
Brace rail & top rail	Type 1	1.66	2.27	1.660	0.785
	Type 2	1.66	1.82	1.66	1.40
Line post	Type 1	2.375	3.65	2.375	1.264
	Type 2	2.375	2.96	2.375	2.31
End, corner & pull post	Type 1	2.875	3.79	2.875	2.004
	Type 2	2.875	4.69	2.875	3.25

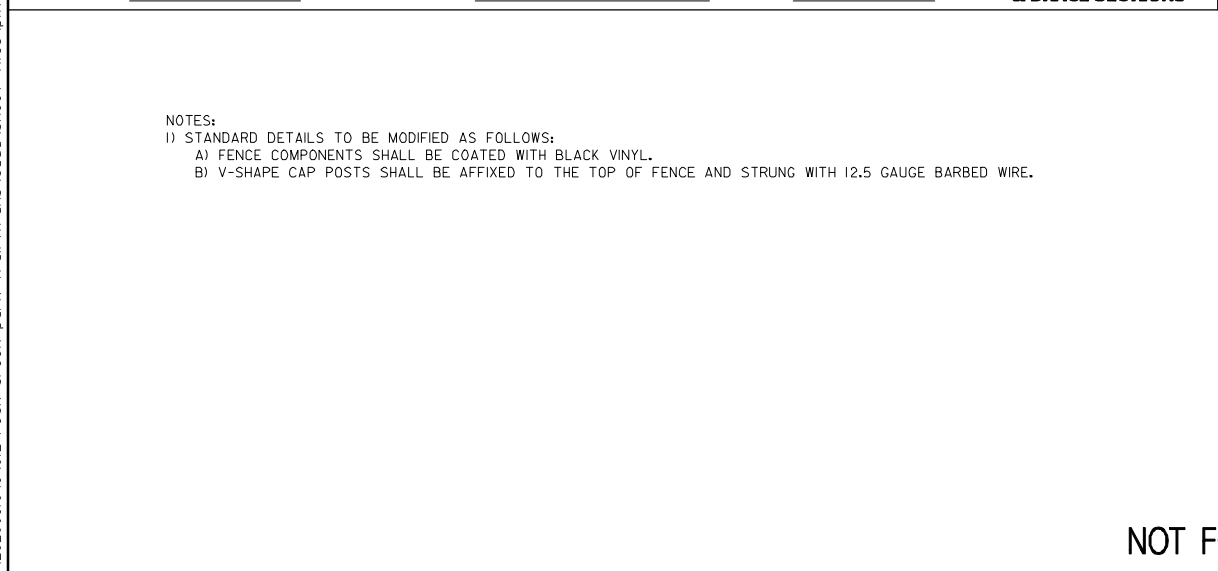
CHAIN LINK FENCE POST SIZE AND WEIGHT TABLE

ROUND PIPE: Steel, Aluminum, Minimum yield strength Psi, 25,000, 50,000, 45,000

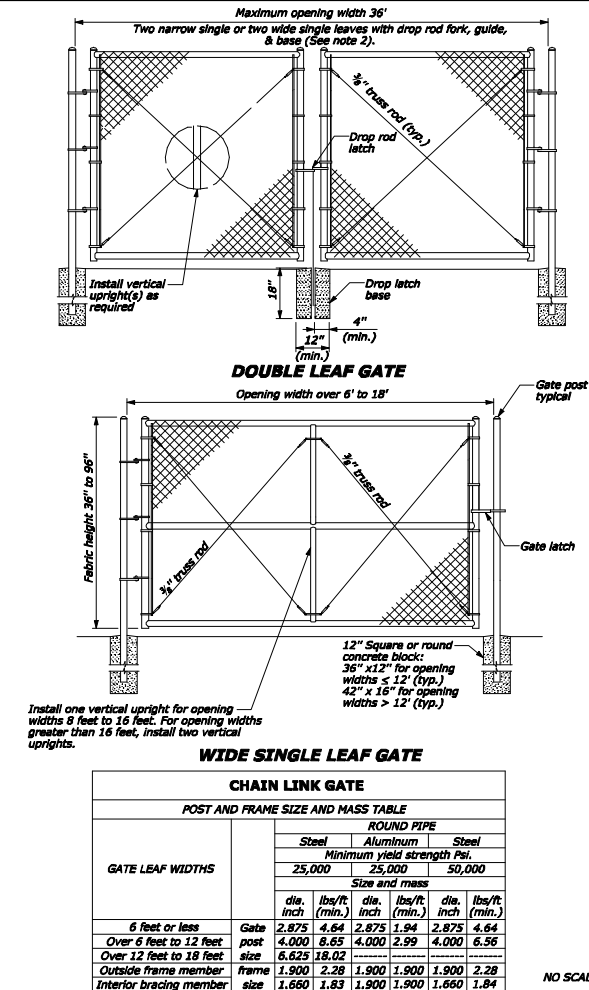
HOT ROLLED SHAPE: Steel, Aluminum, Minimum yield strength Psi, 25,000, 50,000, 45,000

ROLLED FORMED: Steel, Aluminum, Minimum yield strength Psi, 25,000, 50,000, 45,000

Size and mess: dia. mass, dia. mass, dia. mass, dia. mass



HARDWARE ITEM DESCRIPTION	STANDARD REQUIREMENTS
Brace rail and top rail	See table on Detail E619-09
Line post	See table on Detail E619-09
Corner, end and pull posts	See table on Detail E619-09
Post cap	Cast non-ferrous alloy or galvanized pressed steel cap must fit snugly on post and gate tops
Line post cap	Galvanized pressed steel minimum 3/32" thickness or galvanized malleable ferrous alloy
Tension band	Minimum 3/32" x 3/16" galvanized steel
Brace band	Minimum 3/32" x 3/16" galvanized steel
Band bolt	Minimum 3/16" x 1 1/4" galvanized carriage bolt, (Lock washer & flat washer for each band)
Rail end	Galvanized pressed steel or galvanized malleable ferrous alloy minimum 3/8" thickness on back bolting appendage
Brace rail end	Galvanized pressed steel or galvanized malleable ferrous alloy minimum 3/8" thickness on back bolting appendage
Truss rod tightener	Minimum 1/4" formed galvanized steel
Truss rod	3/8" galvanized, NC threaded rod, lock washer, & flat washer with two 90° bends opposite of threaded end
Top rail sleeve	Galvanized steel 0.051" minimum thickness by 6" minimum length
Tension bar	Minimum 3/16" x 3/8" galvanized steel
Fence fabric	2" diamond mesh fabric. See note no. 4 on Detail E619-07 of Sheet 1
Tie wires	Minimum 9 gage aluminum with one hooked end
Collar tension wire	0.177" minimum diameter metallic coated wire
Gate latch	Minimum 1/2" galvanized pressed steel or malleable ferrous alloy. 1 latch per each single gate with bent minimum 3/8" attachment bolt, washer & nut.
Frame hinge	Minimum 1/2" galvanized pressed steel with 2-3/8" U-bolts, lockwasher & nuts per hinge. Use 2 hinges per gate leaf up to 8' in width and 3 hinges per gate leaf widths greater than 8'.
Drop rod latch & guide	Minimum 1/2" galvanized pressed steel. Drop rod guide includes 3/8" x 3" carriage bolt with lock washer & nut. Weld drop rod fork to rod & paint with an approved zinc rich paint.



CHAIN LINK FENCE

U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 EASTERN FEDERAL LANDS HIGHWAY DIVISION
 U.S. CUSTOMARY DETAIL
CHAIN LINK HARDWARE AND GATE
 Sheet 2 of 2
 APPROVED FOR USE: [Signature]
 DATE: 1/18/2011
 E619-09

NOTES:
 1) STANDARD DETAILS TO BE MODIFIED AS FOLLOWS:
 A) FENCE COMPONENTS SHALL BE COATED WITH BLACK VINYL.
 B) V-SHAPE CAP POSTS SHALL BE AFFIXED TO THE TOP OF FENCE AND STRUNG WITH 12.5 GAUGE BARBED WIRE.

NOT FOR CONSTRUCTION



NO.	DESCRIPTION	NAME	DATE

DATE: 09-13-2013 NOT TO SCALE DE-09

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 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

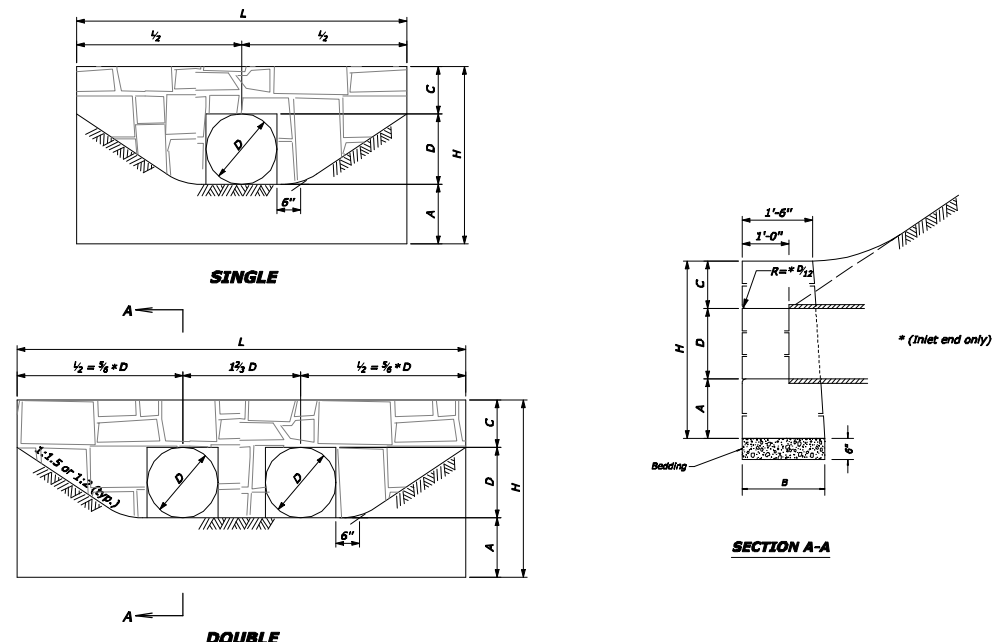
ROCK CREEK PARK
 MULTI-USE TRAIL REHABILITATION
 30% DESIGN SUBMITTAL

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DIVISION CHIEF _____

DATE _____
 FILE _____
 SHEET 034 OF 124

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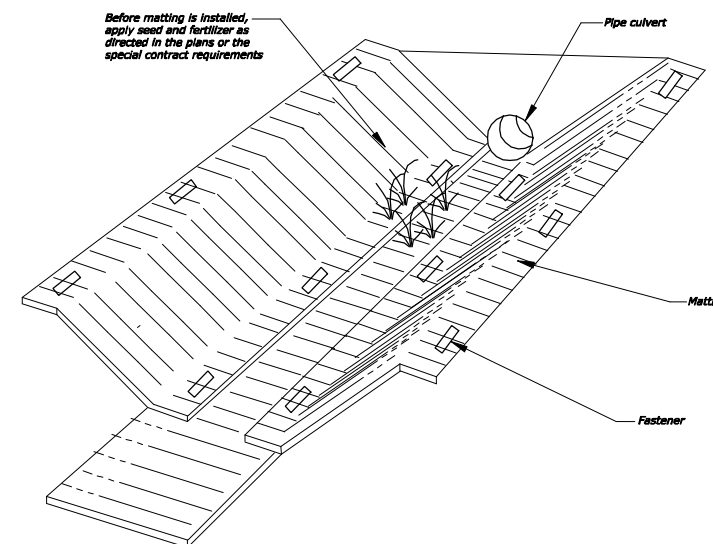


NOTES:

1. All headwalls are oriented parallel to the roadway centerline unless otherwise indicated on the plans or by the CO.
2. When pipes are on skew, adapt and lengthen headwalls as directed.
3. Quantities shown in the table are for one headwall with pipe at right angles.
4. Construct headwalls using dimensions shown under values for 1 1/2 : 1 slope, unless otherwise designated by the CO.

	VALUES FOR 1 1/2: 1 SLOPES				VALUES FOR 2:1 SLOPES			
	SINGLE		DOUBLE		SINGLE		DOUBLE	
D (in.)	18"	24"	30"	36"	18"	24"	30"	36"
L or L'	7'-0"	10'-0"	13'-0"	16'-0"	9'-6"	13'-4"	17'-2"	21'-0"
H	3'-9"	4'-10"	5'-11"	7'-0"	3'-9"	4'-10"	5'-11"	7'-0"
B	1'-9"	2'-0"	2'-5"	2'-10"	1'-9"	2'-0"	2'-5"	2'-10"
A (min.)	1'-3"	1'-6"	1'-9"	2'-0"	1'-3"	1'-6"	1'-9"	2'-0"
C	1'-0"	1'-4"	1'-8"	2'-0"	1'-0"	1'-4"	1'-8"	2'-0"
Stone (CY)	1.45	2.87	5.14	8.28	1.89	3.66	6.47	10.37

U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 EASTERN FEDERAL LANDS HIGHWAY DIVISION
 U.S. CUSTOMARY DETAIL
**STONE MASONRY HEADWALLS
 FOR SMALL PIPE CULVERTS**
 DETAIL APPROVED FOR USE: _____
 APPROVED: 1/07/2011 MODIFIED: _____
 DETAIL: E620-01



DETAIL FOR STABILIZING PIPE INLETS WITH MATTING

NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 EASTERN FEDERAL LANDS HIGHWAY DIVISION
 U.S. CUSTOMARY DETAIL
**PIPE INLET
 STABILIZATION**
 DETAIL APPROVED FOR USE: _____
 APPROVED: 1/07/2011
 DETAIL: E629-03

Thursday, September 12, 2013 AT 03:31 PM
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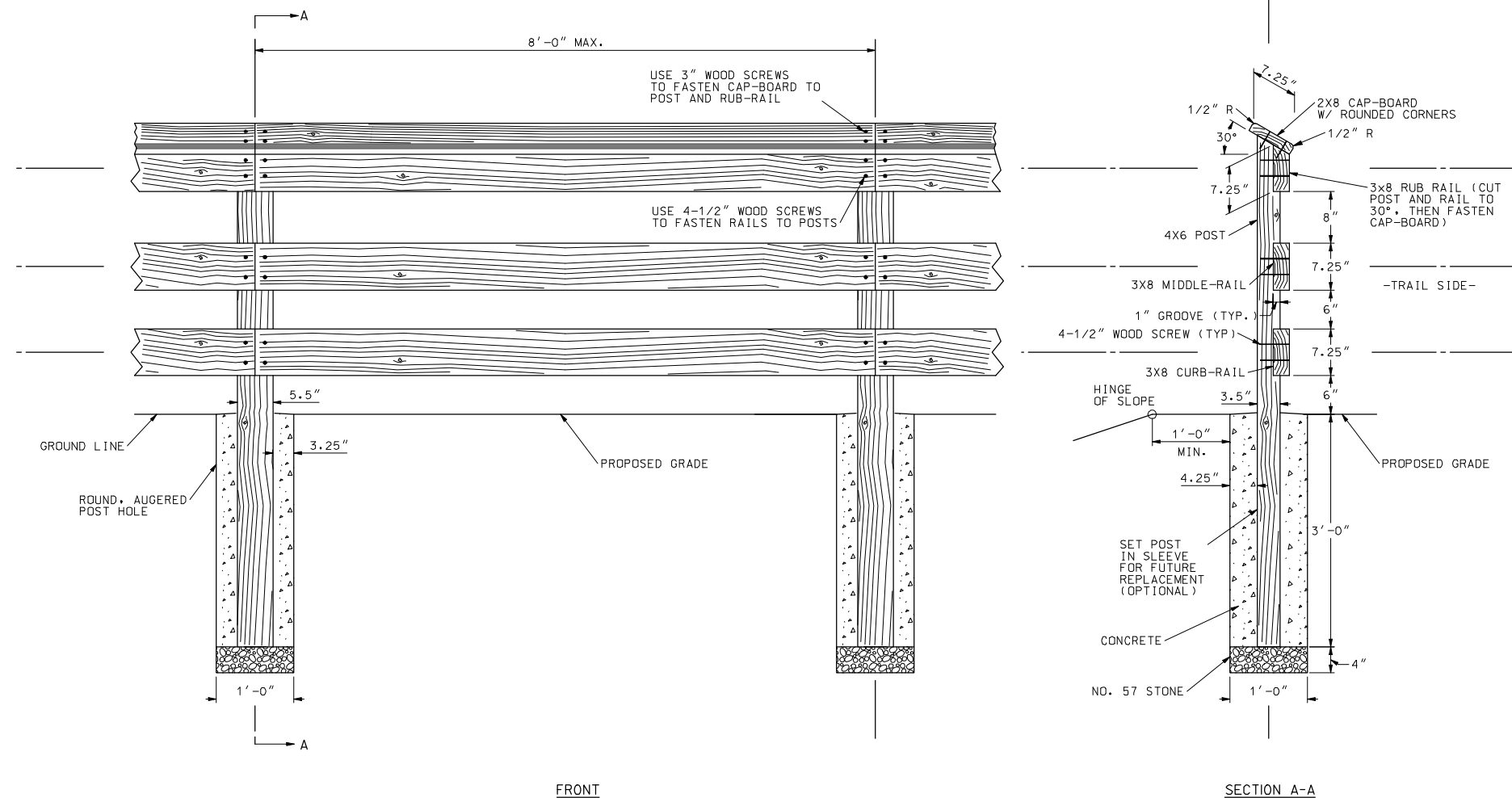
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DATE: 09-13-2013	NOT TO SCALE	DE-10
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		
ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
DETAILS		DIVISION CHIEF _____ DATE _____ FILE _____ SHEET 035 OF 124



NOTES:

- 1) ALL HARDWARE TO BE CORROSION RESISTANT, HOT-DIPPED GALVANIZED STEEL.
- 2) ALL LUMBER SHALL BE PRESERVATIVE-TREATED.
- 3) FENCE SHALL BE COATED WITH EXTERIOR GRADE CLEAR SEALANT BUT NOT PAINTED. FINAL DESIGN SHALL BE APPROVED BY NATIONAL PARK SERVICE.
- 4) FENCE DESIGN COMPLIES WITH CRITERIA PROVIDED IN THE AASHTO GUIDE TO BICYCLE FACILITIES, 4TH EDITION (REFER TO FIGURE 5-11). ANY MODIFICATIONS TO THIS DETAIL SHOULD BE CHECKED FOR COMPLIANCE WITH THIS CRITERIA.
- 5) FENCE OFFSET FROM EDGE OF TRAIL SHALL BE 2' DESIRABLE, 1' MINIMUM.
- 6) ALL FENCES SHALL BEGIN AND END WITH MINIMUM 2' FLARED OFFSETS FROM THE EDGE OF TRAIL.
- 7) RAILS SHALL PARALLEL THE LONGITUDINAL GRADE OF THE TRAIL. POSTS SHALL BE SET 90° FROM HORIZONTAL, REGARDLESS OF THE LONGITUDINAL GRADE.

DETAIL A
42" POST-AND-RAIL SAFETY FENCE

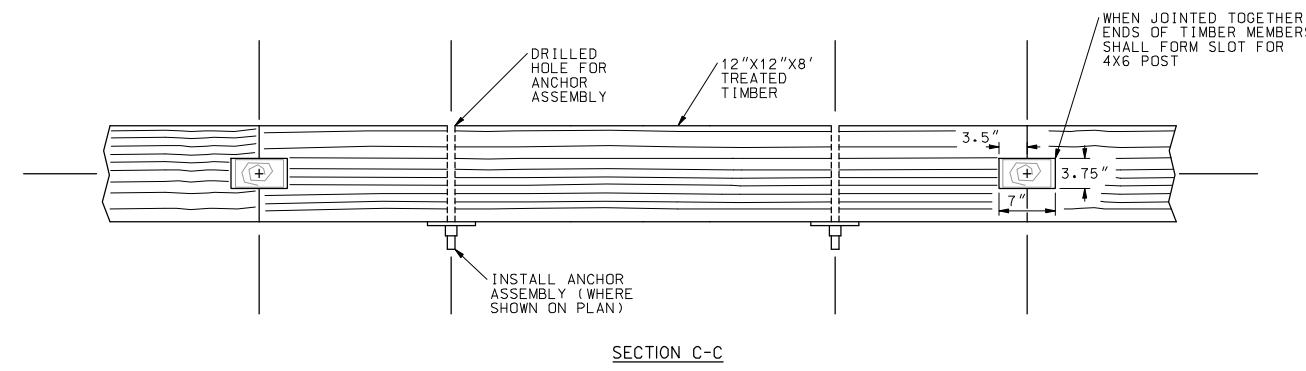
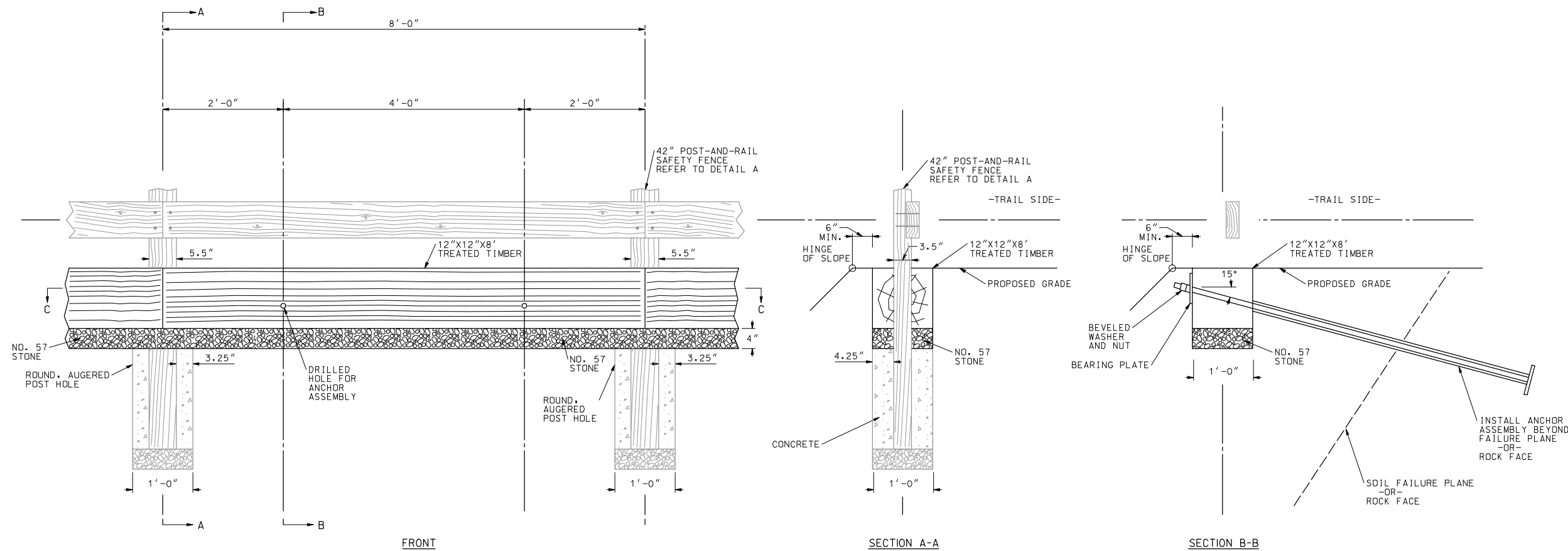
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DATE: 09-13-2013	NOT TO SCALE	DE-11
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		
ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
DETAILS		DIVISION CHIEF _____
		DATE _____ FILE _____ SHEET 036 OF 124



- NOTES:
- 1) ALL LUMBER SHALL BE PRESERVATIVE-TREATED.
 - 2) TIMBER MEMBERS SHALL BE LAID PARALLEL WITH THE LONGITUDINAL GRADE OF THE TRAIL.
 - 3) ANCHOR ASSEMBLY SHALL BE DESIGNED FOR SPECIFIC SITE CONDITIONS. ROCK ANCHORS SHALL BE GROUTED. ALL PRODUCTS SHALL BE SUBMITTED FOR APPROVAL.
 - 4) ANCHOR ASSEMBLY SHALL BE CORROSION RESISTANT.
 - 5) STACKED ROWS OF TIMBER EDGE SUPPORT WITH ANCHOR SYSTEM MAY BE NECESSARY IN SOME LOCATIONS.

DETAIL B
TIMBER EDGE SUPPORT AND ANCHOR ASSEMBLY (SHOWN WITH 42" POST-AND-RAIL SAFETY FENCE)

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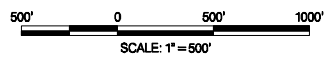
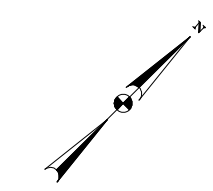


NO.	DESCRIPTION	NAME	DATE
REVISIONS			

DATE: 09-13-2013	NOT TO SCALE	DE-12
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ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
DETAILS		DIVISION CHIEF _____ DATE _____ FILE _____ SHEET 037 OF 124

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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		038	124



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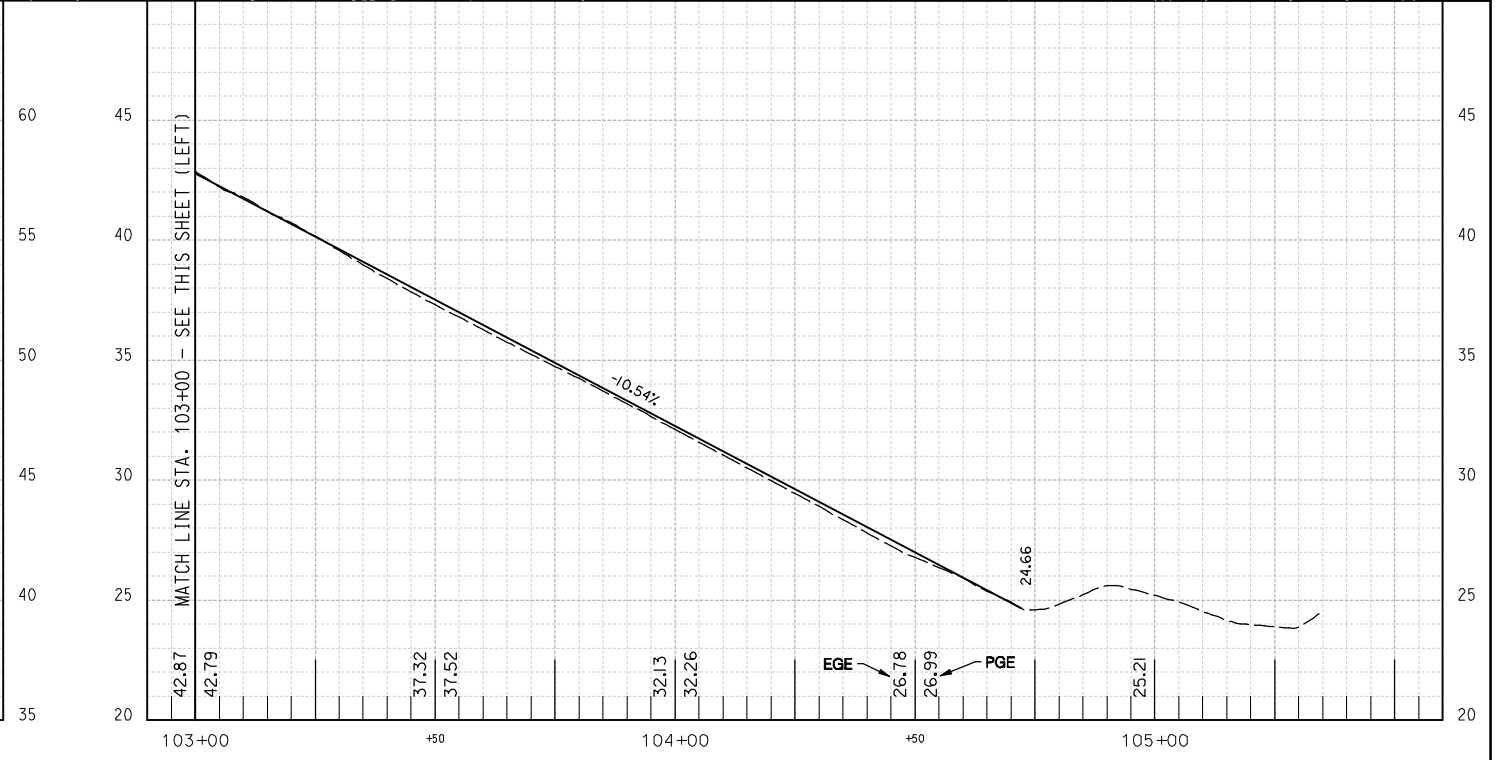
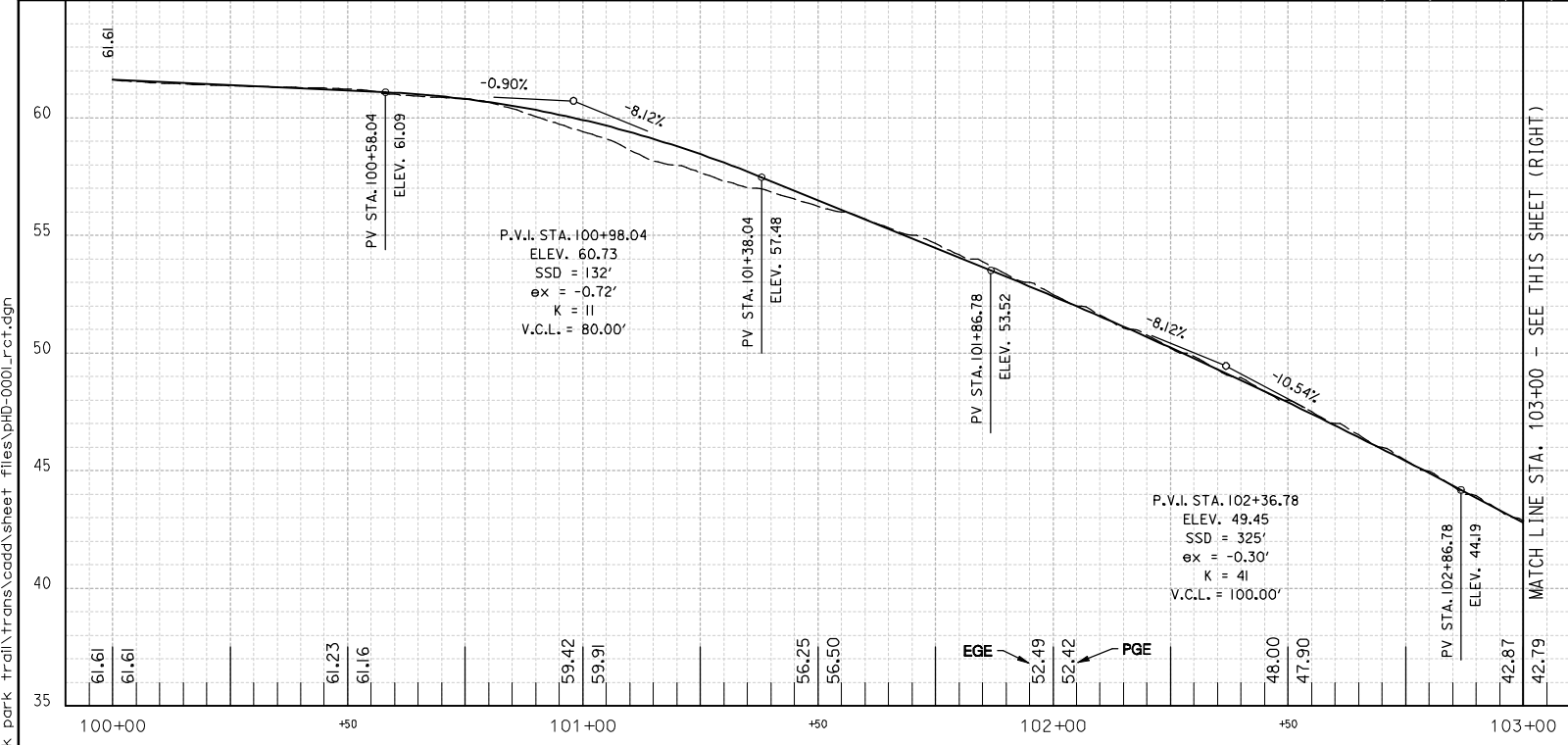
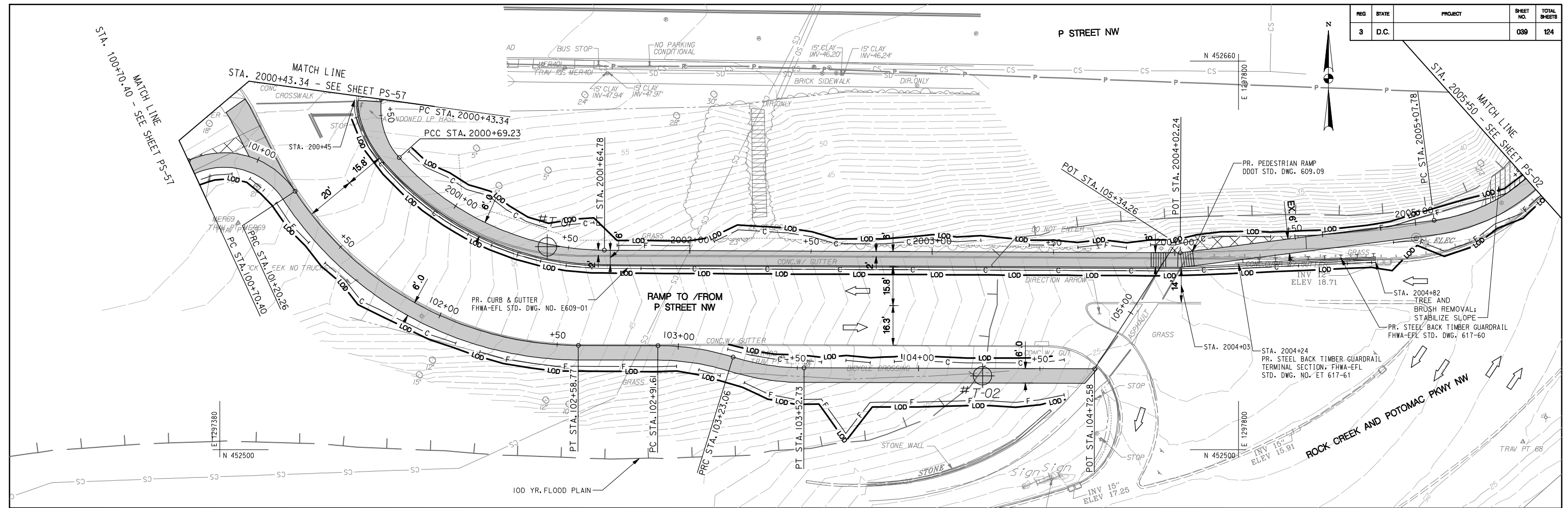
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NO.	DESCRIPTION	NAME	DATE
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DATE: 09-13-2013	SCALE: 1" = 500'	KEY-01
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		
ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
PLAN AND PROFILE KEY SHEET (PS-01 THRU PS-57)		DIVISION CHIEF _____ DATE _____ FILE _____ SHEET 038 OF 124

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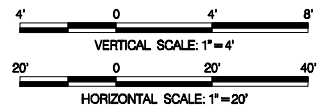
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		039	124



PAVEMENT LEGEND

- PR. ASPHALT PAVEMENT
- PR. CONCRETE SIDEWALK
- WORK PROPOSED BY OTHERS
- PAVEMENT REMOVAL

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PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

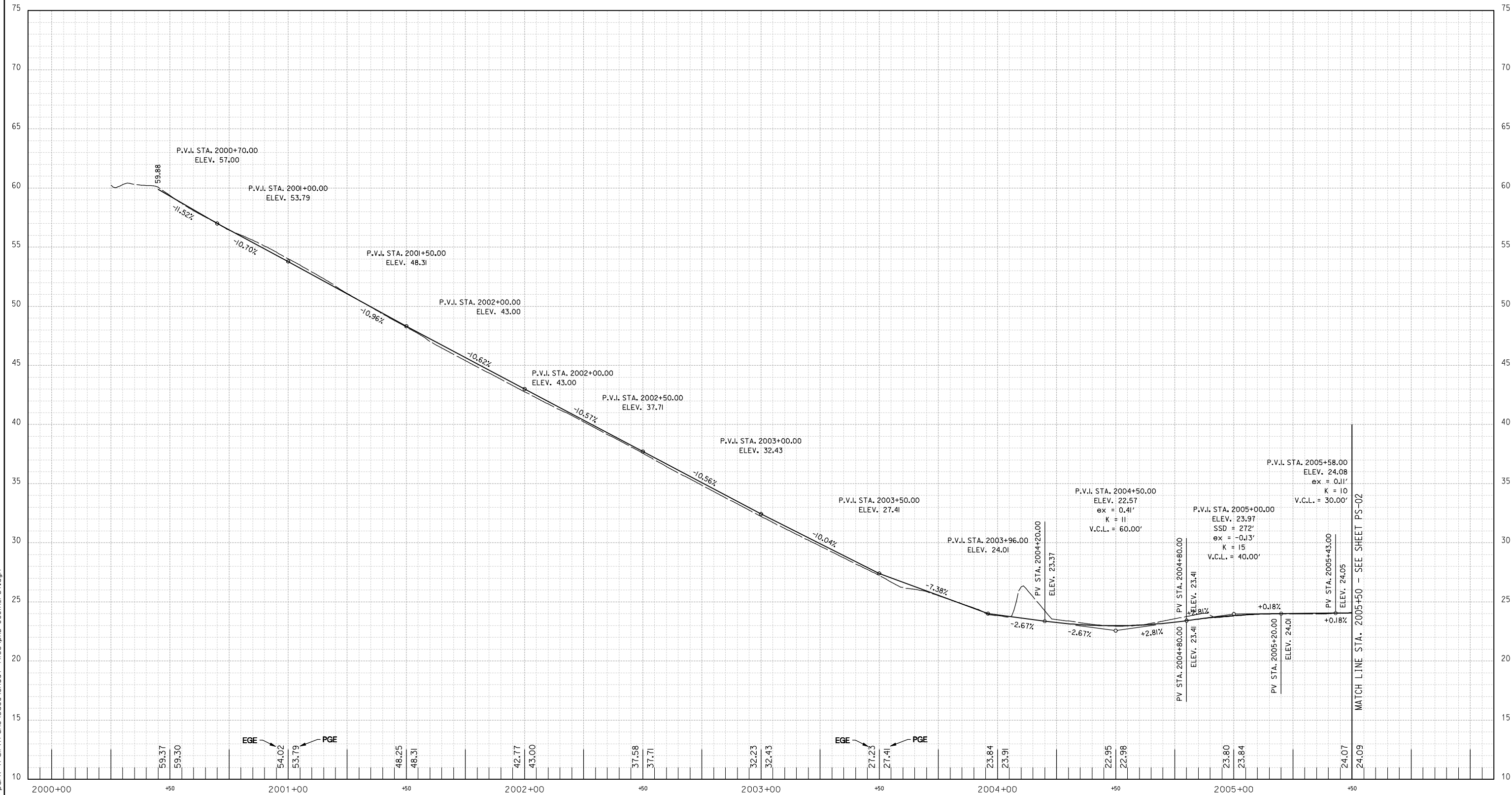
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PLAN AND PROFILE SHEET

DIVISION CHIEF _____
DATE _____
FILE _____
SHEET 039 OF 124

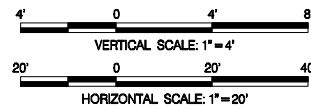
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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		040	124



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**ROCK CREEK PARK
 MULTI-USE TRAIL REHABILITATION
 30% DESIGN SUBMITTAL**

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013

SCALE: H: 1"=20'; V: 1"=4'

PS-01A

PLAN AND PROFILE SHEET

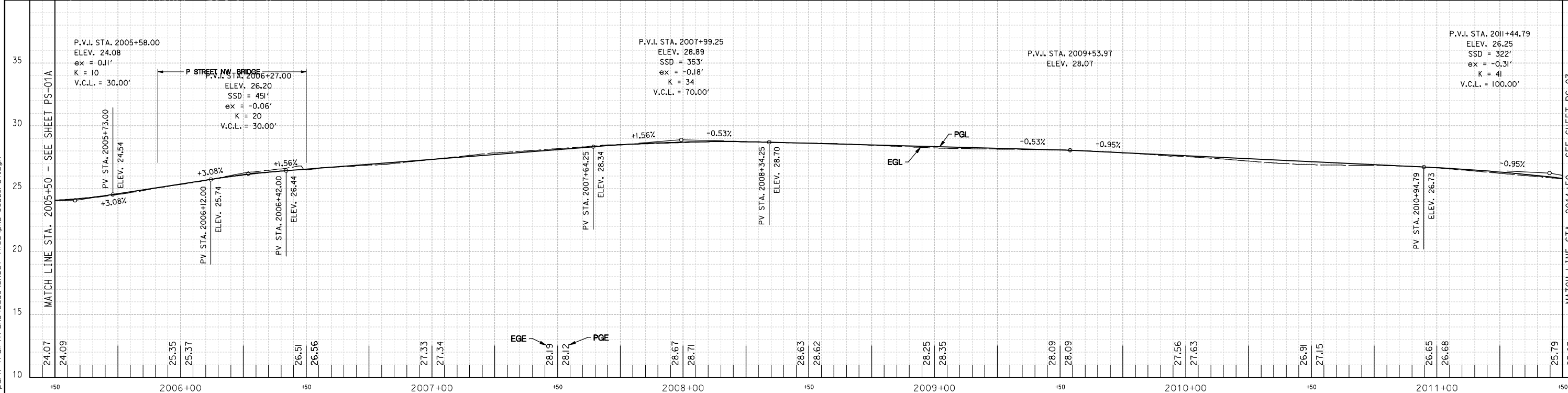
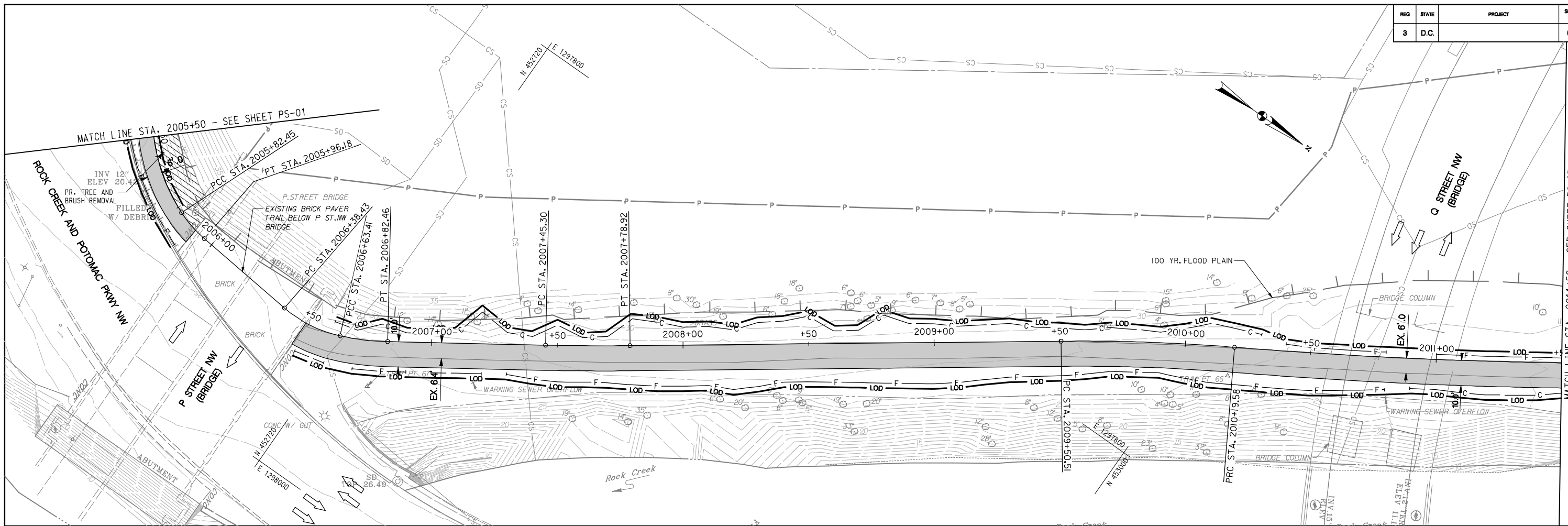
DIVISION CHIEF

DATE _____

FILE _____

SHEET 040 OF 124

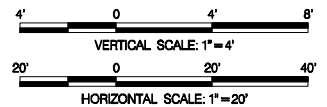
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		041	124



PAVEMENT LEGEND

- PR. ASPHALT PAVEMENT
- PR. CONCRETE SIDEWALK
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ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

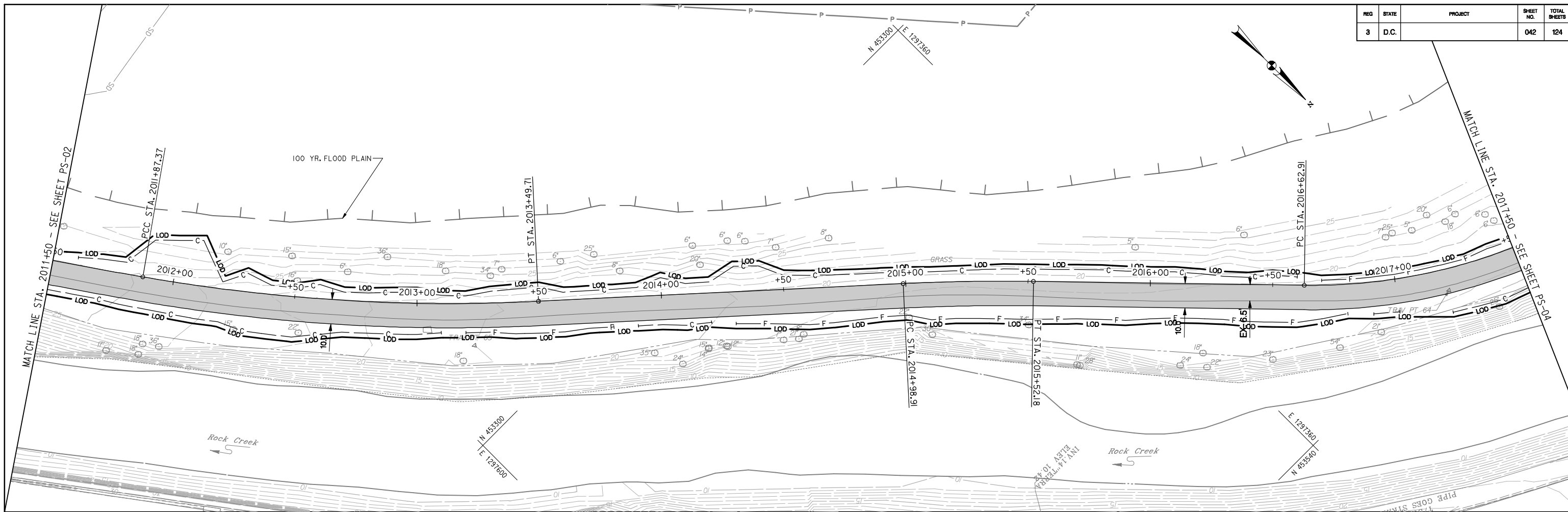
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PLAN AND PROFILE SHEET

DIVISION CHIEF _____
DATE _____
FILE _____
SHEET 041 OF 124

Thursday, September 12, 2013 AT 03:32 PM
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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		042	124



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VERTICAL SCALE: 1" = 4'
 HORIZONTAL SCALE: 1" = 20'



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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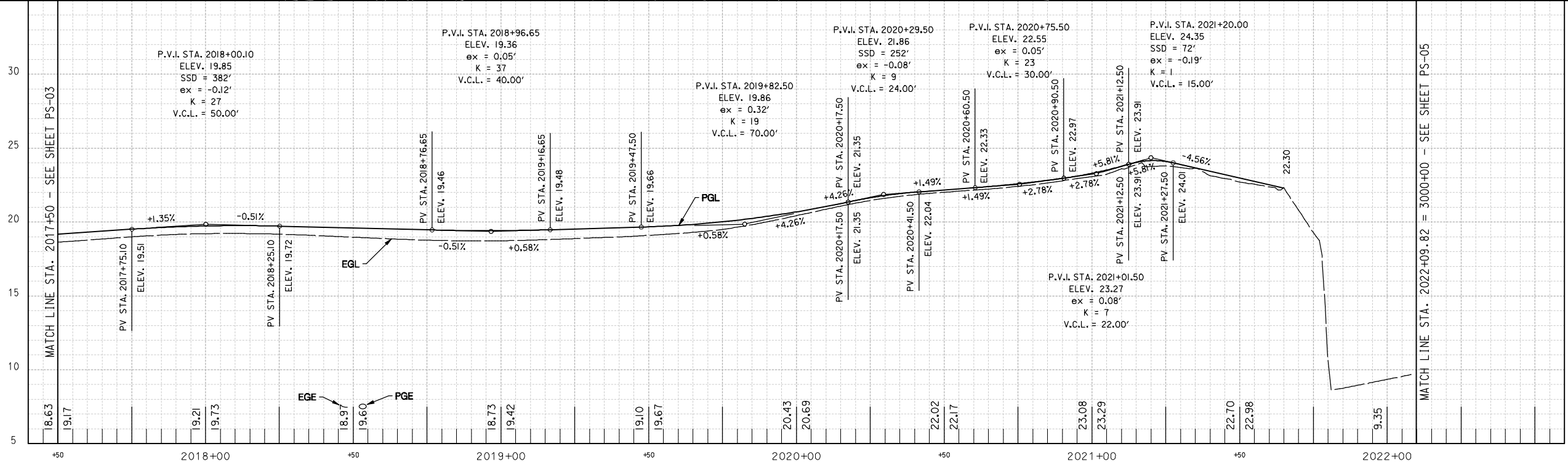
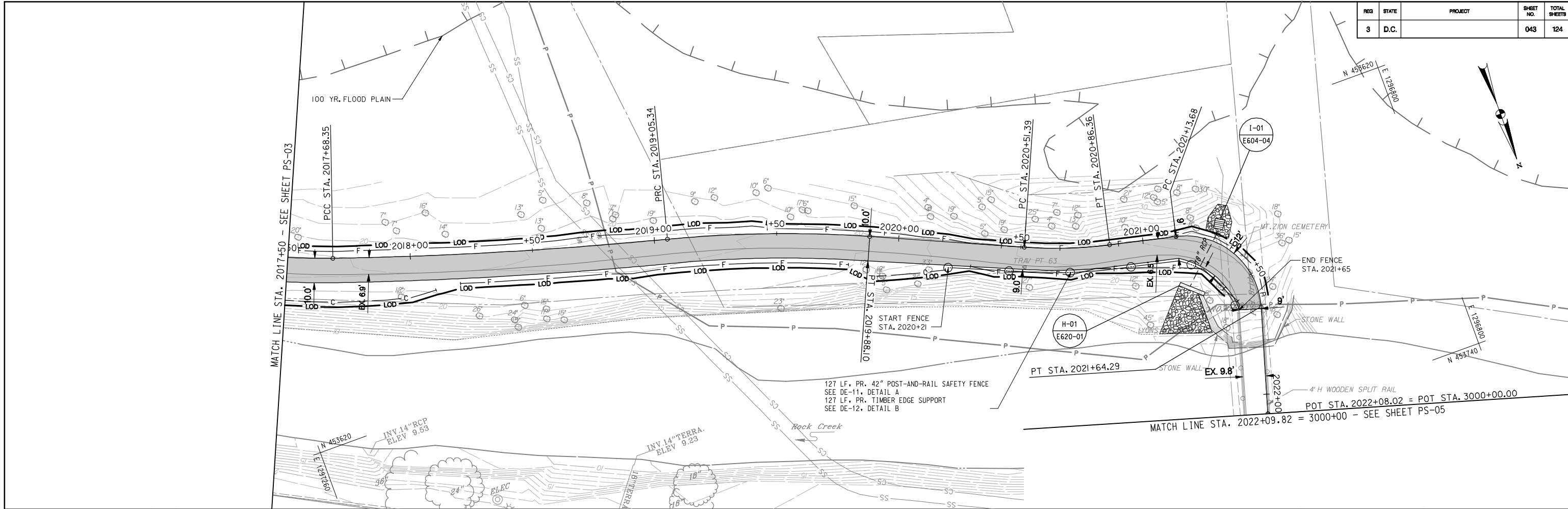
**ROCK CREEK PARK
 MULTI-USE TRAIL REHABILITATION
 30% DESIGN SUBMITTAL**

PROJECT ENG. _____
 DESIGNED BY _____
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 PROJECT MGR. _____

DATE: 09-13-2013	SCALE: H: 1"=20'; V: 1"=4'	PS-03
PLAN AND PROFILE SHEET		DIVISION CHIEF
DATE _____		FILE _____
SHEET 042 OF 124		

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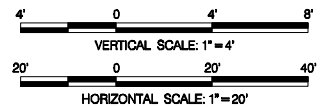
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		043	124



PAVEMENT LEGEND

- PR. ASPHALT PAVEMENT
- PR. CONCRETE SIDEWALK
- WORK PROPOSED BY OTHERS
- PAVEMENT REMOVAL

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ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

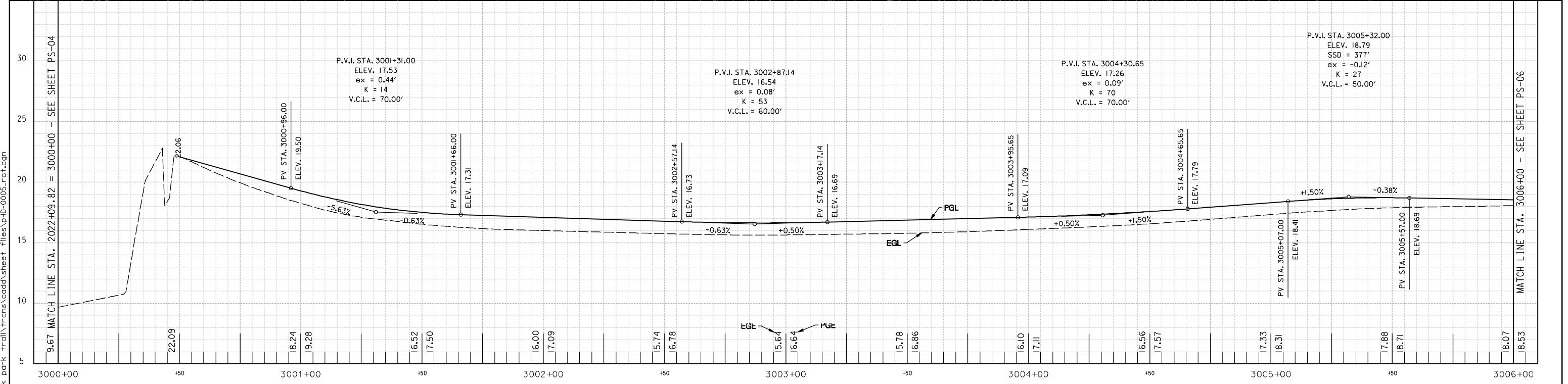
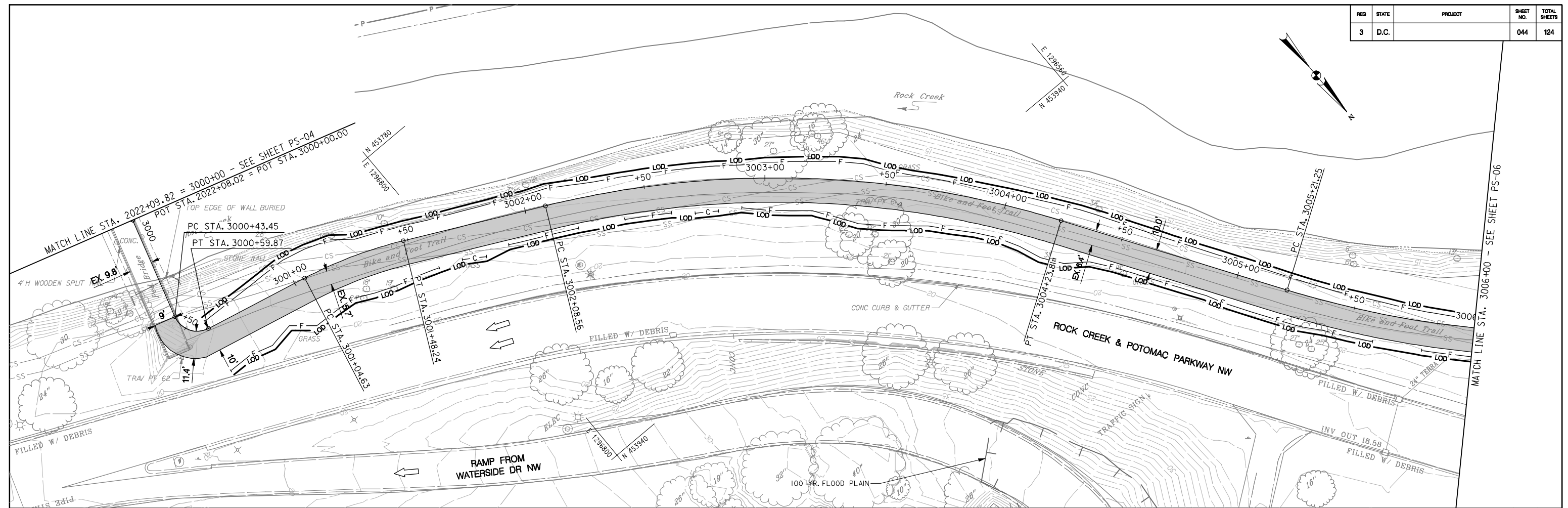
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 PROJECT MGR. _____

DATE: 09-13-2013 SCALE: H: 1"=20'; V: 1"=4' PS-04

PLAN AND PROFILE SHEET

DIVISION CHIEF _____
 DATE _____
 FILE _____
 SHEET 043 OF 124

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PAVEMENT LEGEND

	PR. ASPHALT PAVEMENT
	PR. CONCRETE SIDEWALK
	WORK PROPOSED BY OTHERS
	PAVEMENT REMOVAL

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VERTICAL SCALE: 1" = 4'
 HORIZONTAL SCALE: 1" = 20'



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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**ROCK CREEK PARK
 MULTI-USE TRAIL REHABILITATION
 30% DESIGN SUBMITTAL**

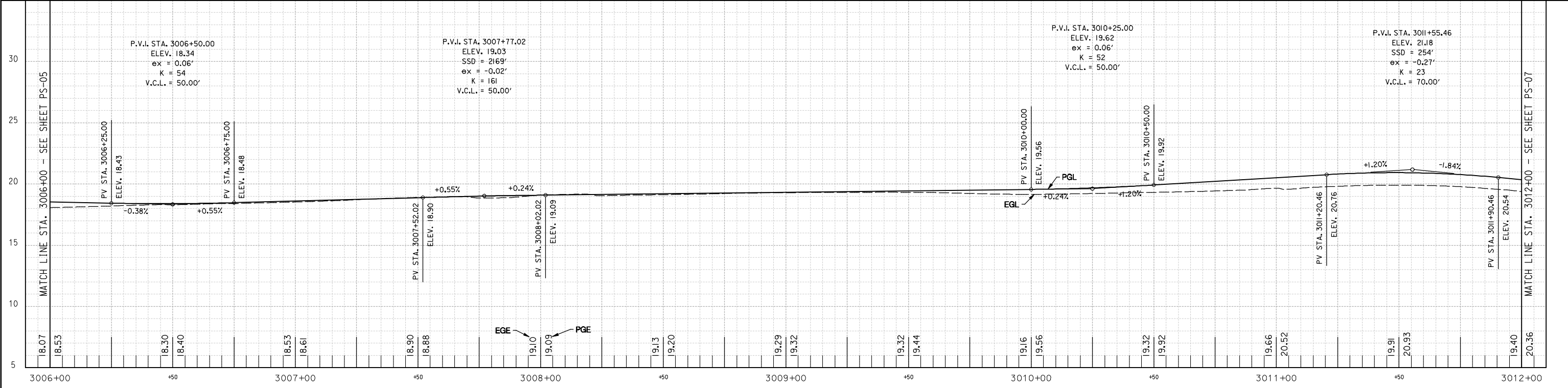
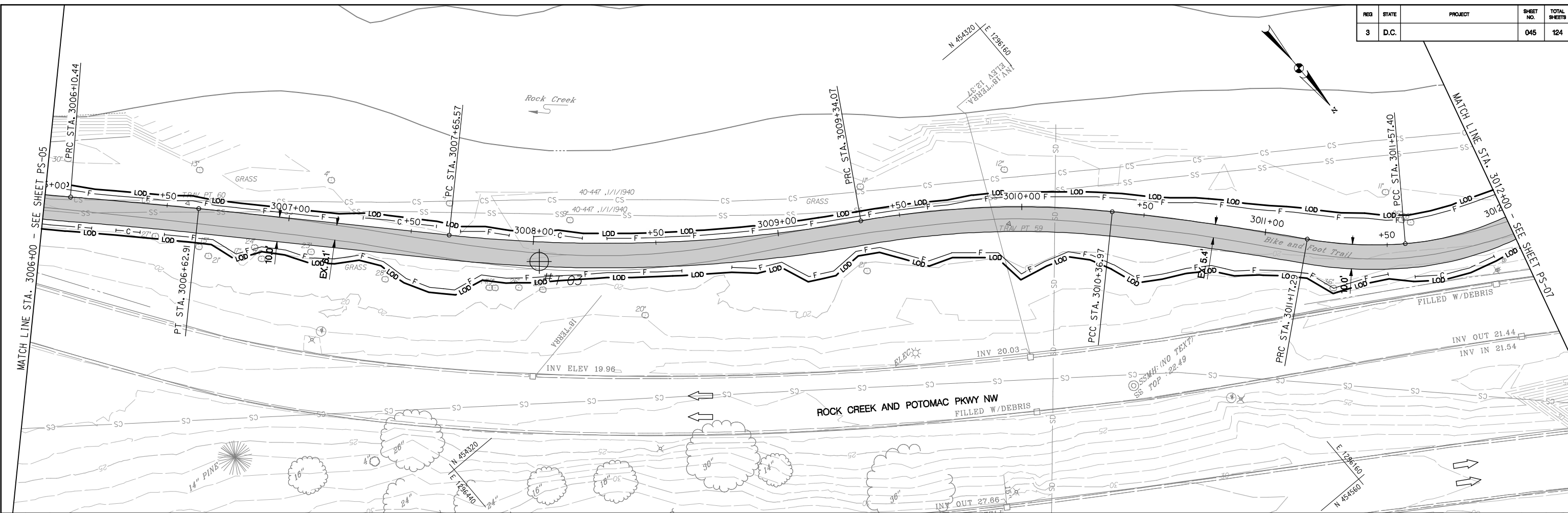
PROJECT ENG. _____
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 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013 SCALE: H: 1"=20'; V: 1"=4' PS-05

PLAN AND PROFILE SHEET

DIVISION CHIEF _____
 DATE _____
 FILE _____
 SHEET 044 OF 124

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		046	124



PAVEMENT LEGEND

	PR. ASPHALT PAVEMENT
	PR. CONCRETE SIDEWALK
	WORK PROPOSED BY OTHERS
	PAVEMENT REMOVAL

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VERTICAL SCALE: 1" = 4'
HORIZONTAL SCALE: 1" = 20'



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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PROJECT MANAGEMENT DIVISION

**ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL**

PROJECT ENG. _____
DESIGNED BY _____
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PROJECT MGR. _____

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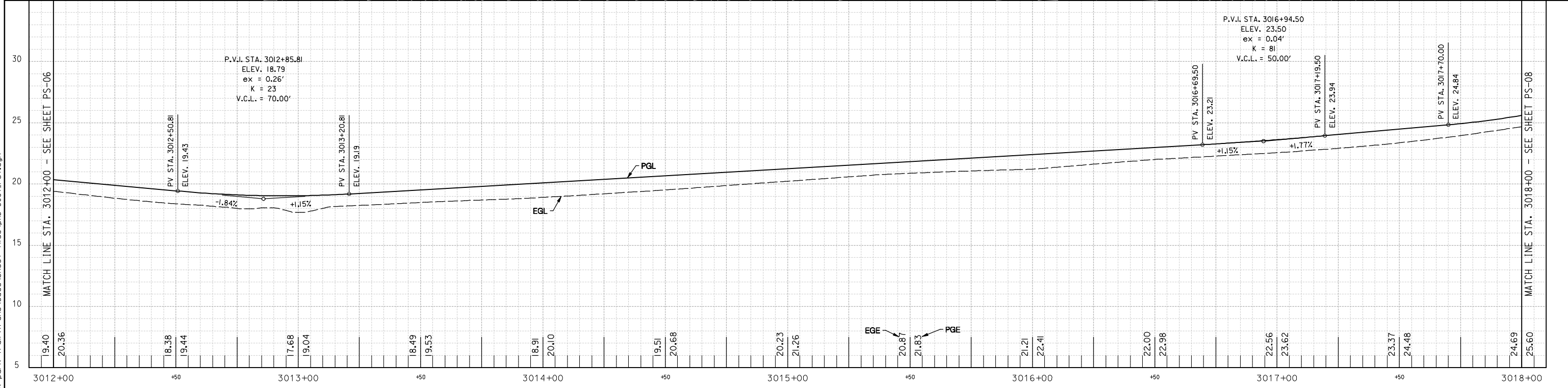
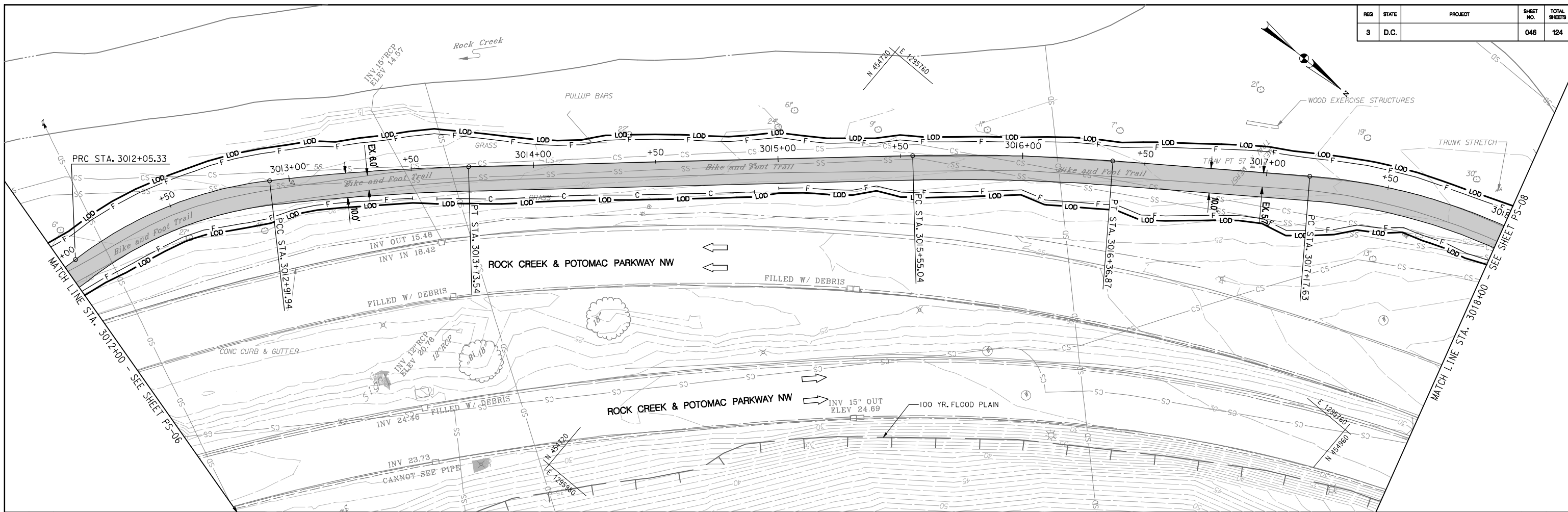
PLAN AND PROFILE SHEET

DIVISION CHIEF _____

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FILE _____
SHEET 046 OF 124

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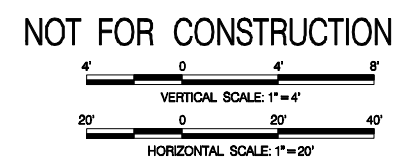
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		046	124



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PAVEMENT LEGEND

	PR. ASPHALT PAVEMENT
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**ROCK CREEK PARK
 MULTI-USE TRAIL REHABILITATION
 30% DESIGN SUBMITTAL**

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

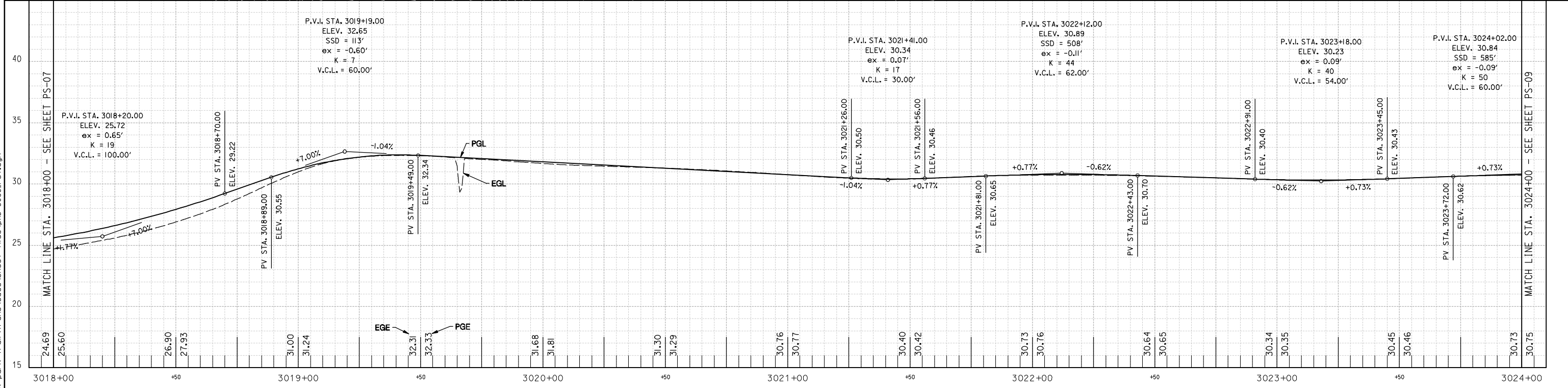
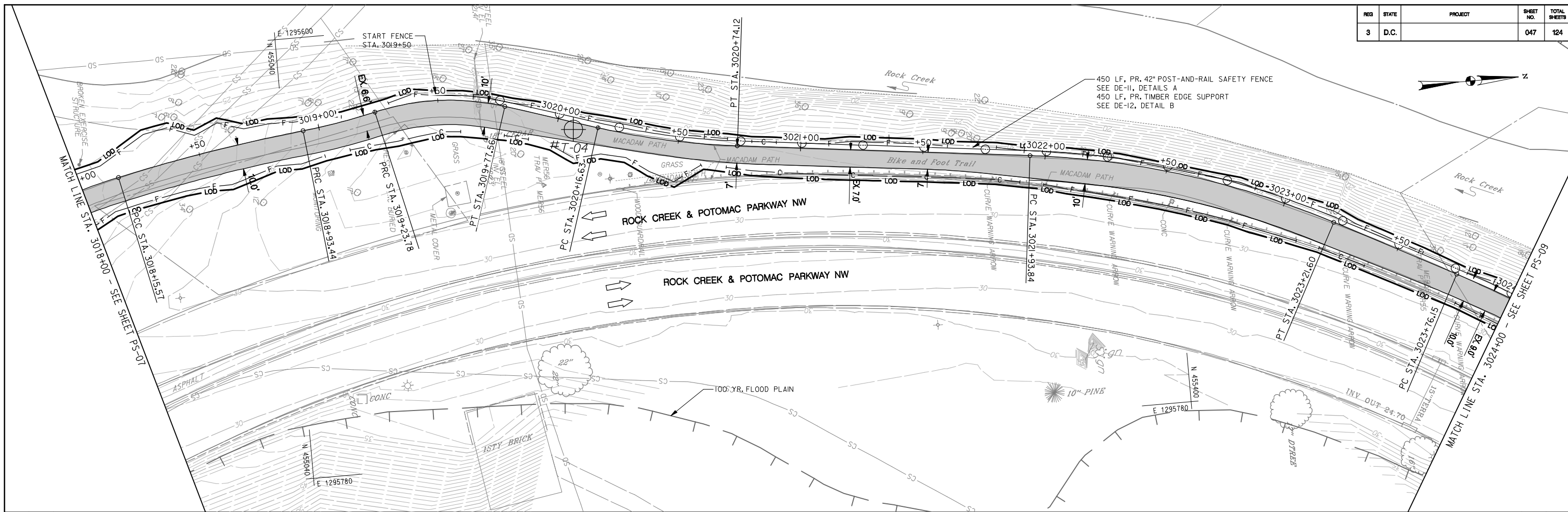
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PLAN AND PROFILE SHEET

DIVISION CHIEF _____

DATE _____
 FILE _____
 SHEET 046 OF 124

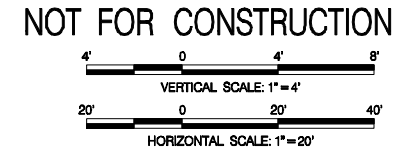
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		047	124



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PAVEMENT LEGEND

	PR ASPHALT PAVEMENT
	PR CONCRETE SIDEWALK
	WORK PROPOSED BY OTHERS
	PAVEMENT REMOVAL



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

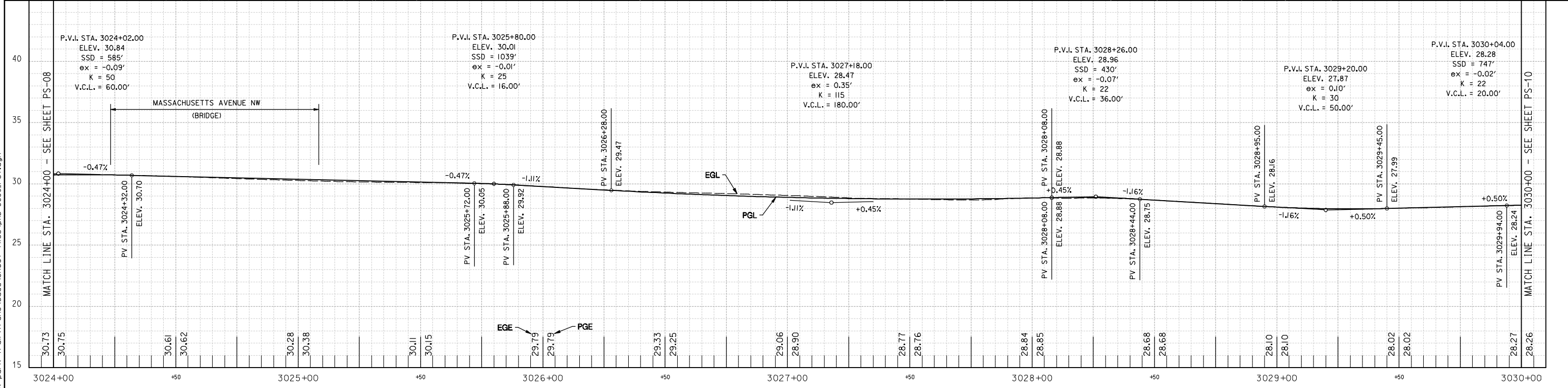
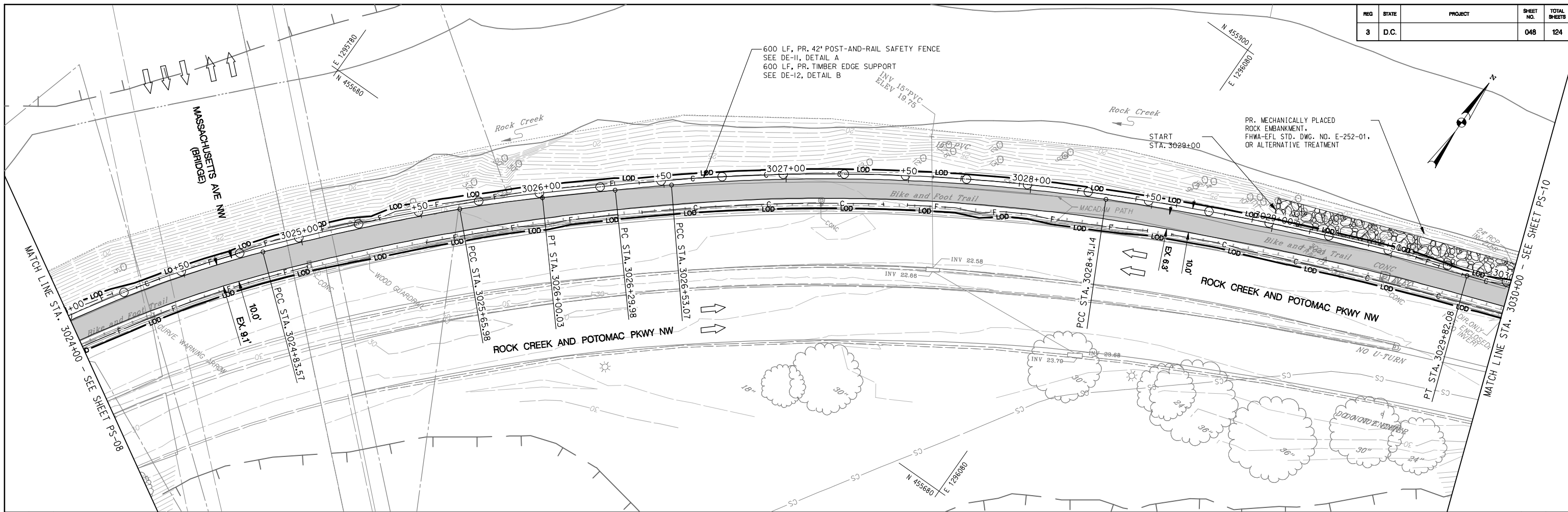
D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
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 PROJECT MGR. _____

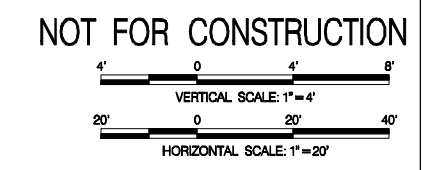
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PLAN AND PROFILE SHEET		
DIVISION CHIEF		
DATE _____		
FILE _____		
SHEET 047 OF 124		

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		048	124



PAVEMENT LEGEND

- PR. ASPHALT PAVEMENT
- PR. CONCRETE SIDEWALK
- WORK PROPOSED BY OTHERS
- PAVEMENT REMOVAL



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

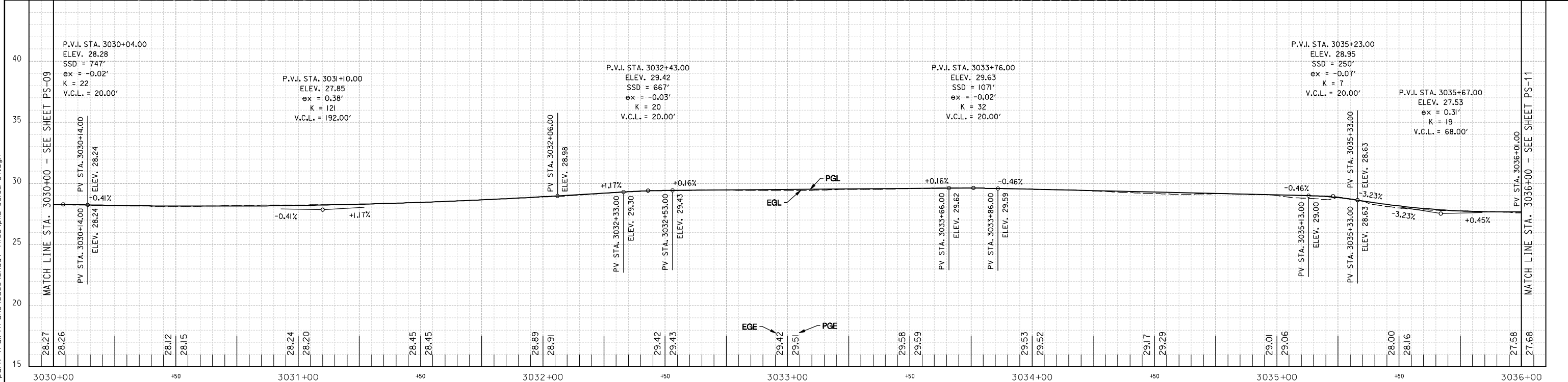
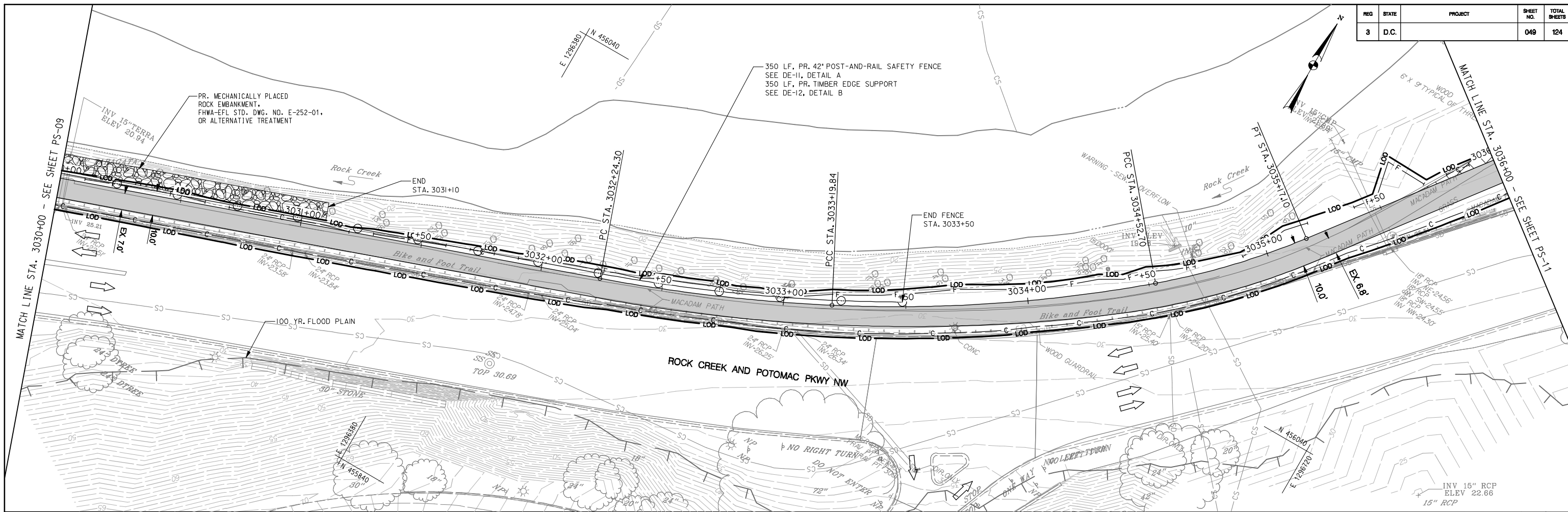
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PROJECT MANAGEMENT DIVISION

**ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL**

PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

DATE: 09-13-2013	SCALE: H: 1"=20'; V: 1"=4'	PS-09
PLAN AND PROFILE SHEET		DIVISION CHIEF _____
DATE _____		FILE _____
SHEET 048 OF 124		

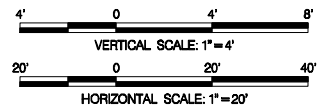
Thursday, September 12, 2013 AT 03:33 PM
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PAVEMENT LEGEND

- PR. ASPHALT PAVEMENT
- PR. CONCRETE SIDEWALK
- WORK PROPOSED BY OTHERS
- PAVEMENT REMOVAL

NOT FOR CONSTRUCTION



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REVISIONS			

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 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

**ROCK CREEK PARK
 MULTI-USE TRAIL REHABILITATION
 30% DESIGN SUBMITTAL**

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

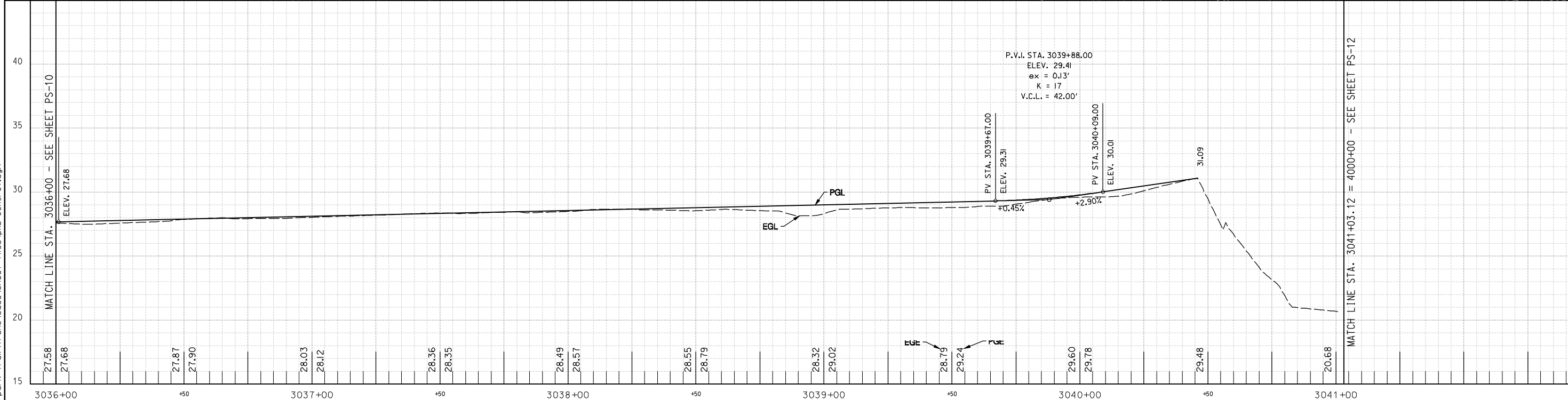
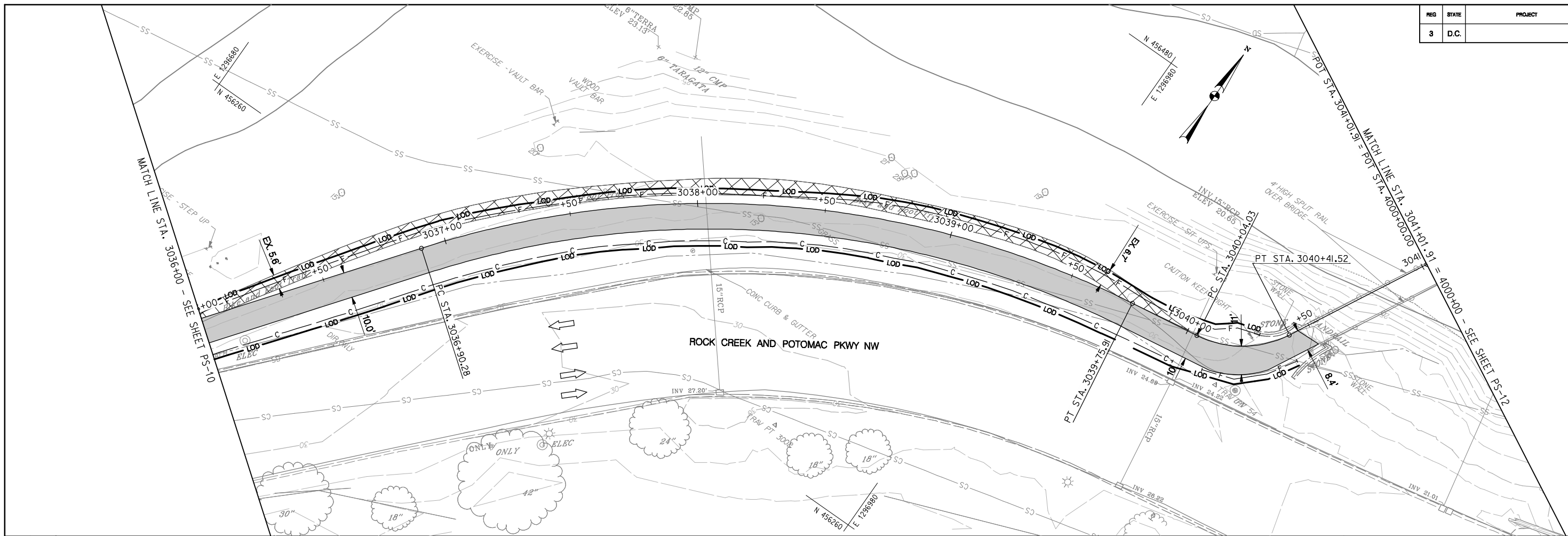
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PLAN AND PROFILE SHEET

PS-10
 DIVISION CHIEF _____
 DATE _____
 FILE _____
 SHEET 049 OF 124

Thursday, September 12, 2013 AT 03:33 PM
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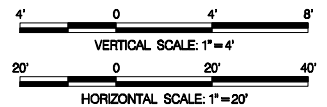
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		050	124



PAVEMENT LEGEND

- PR. ASPHALT PAVEMENT
- PR. CONCRETE SIDEWALK
- WORK PROPOSED BY OTHERS
- PAVEMENT REMOVAL

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PROJECT MANAGEMENT DIVISION

**ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL**

PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

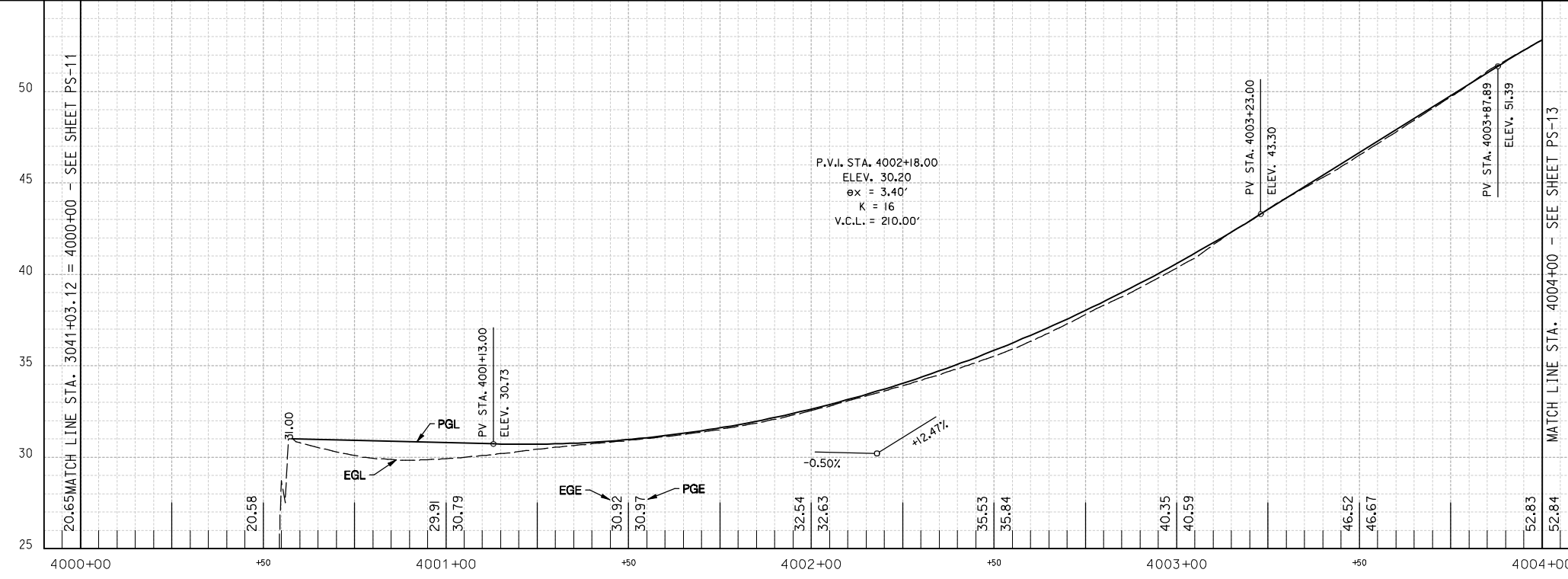
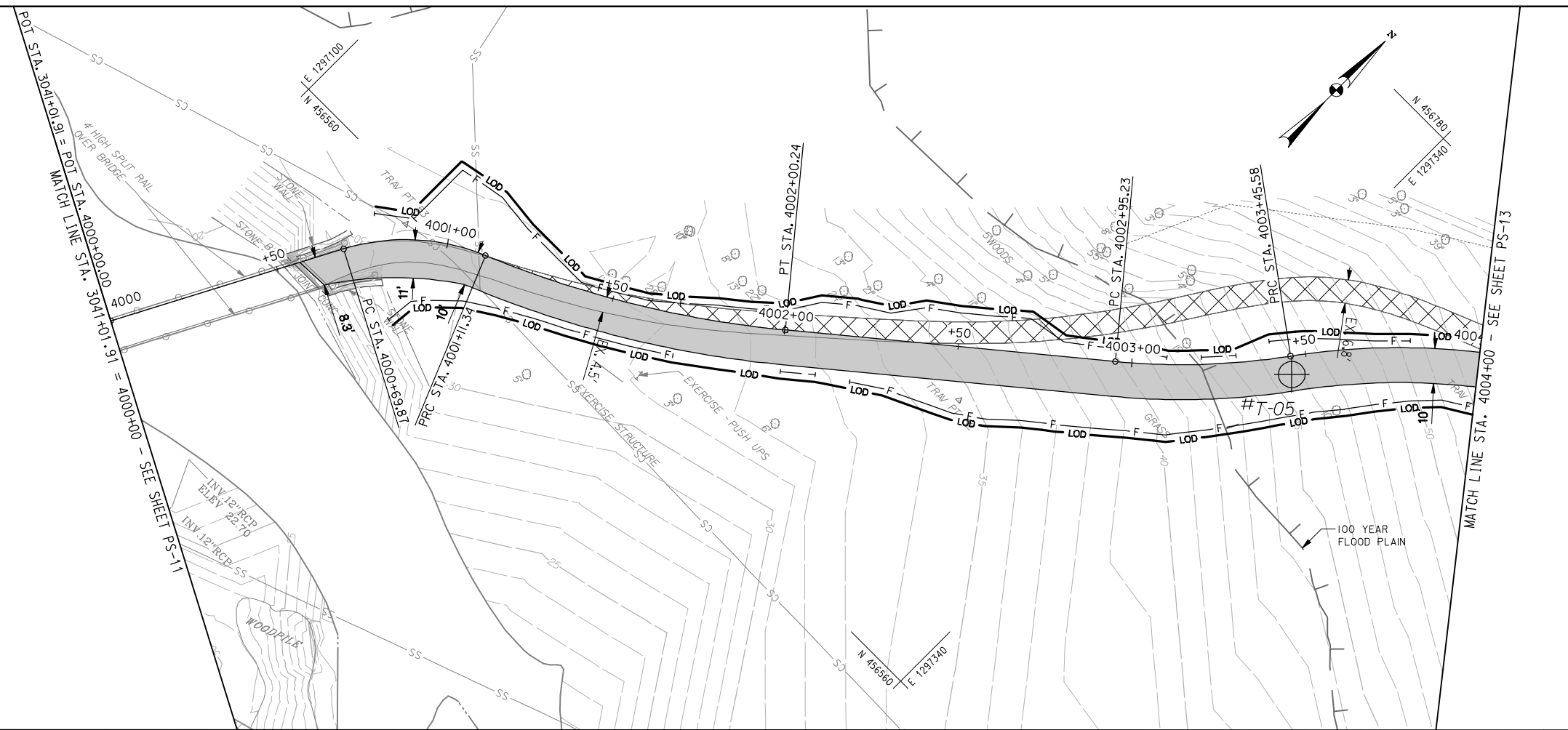
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PLAN AND PROFILE SHEET

PS-11
DIVISION CHIEF
DATE _____
FILE _____
SHEET 050 OF 124

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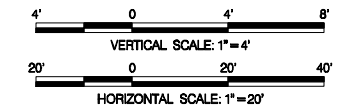
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		051	124



PAVEMENT LEGEND

- PR. ASPHALT PAVEMENT
- PR. CONCRETE SIDEWALK
- WORK PROPOSED BY OTHERS
- PAVEMENT REMOVAL

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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

**ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL**

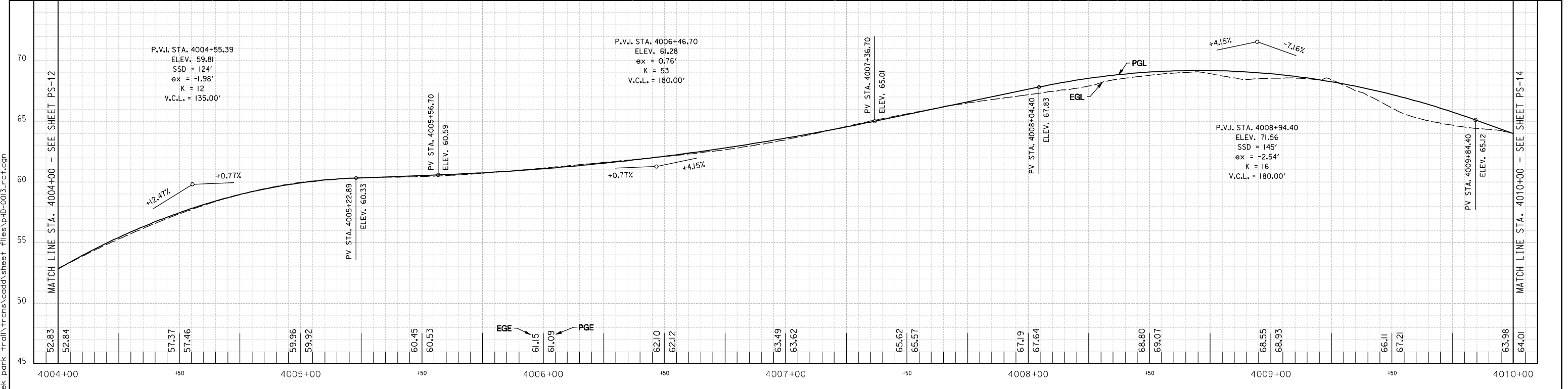
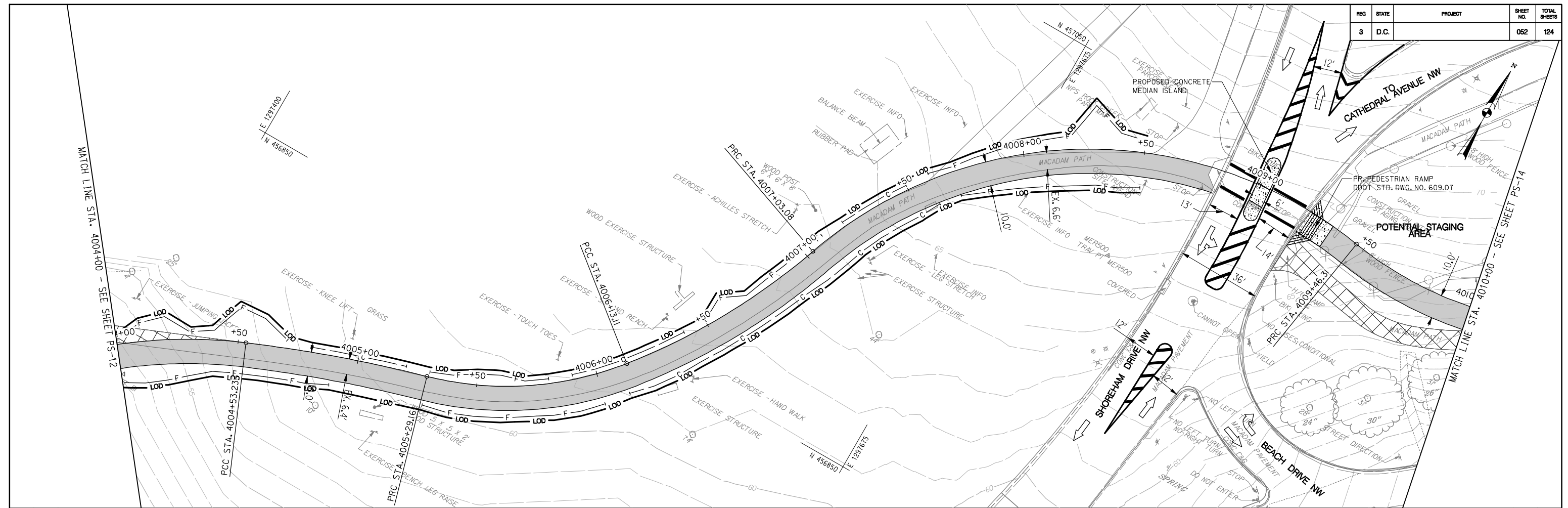
PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

DATE: 09-13-2013 SCALE: H: 1"=20'; V: 1"=4' PS-12

PLAN AND PROFILE SHEET

DIVISION CHIEF _____
DATE _____
FILE _____
SHEET 051 OF 124

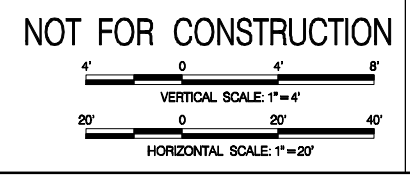
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Thursday, September 12, 2013 AT 03:33 PM
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PAVEMENT LEGEND

	PR. ASPHALT PAVEMENT
	PR. CONCRETE SIDEWALK
	WORK PROPOSED BY OTHERS
	PAVEMENT REMOVAL



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

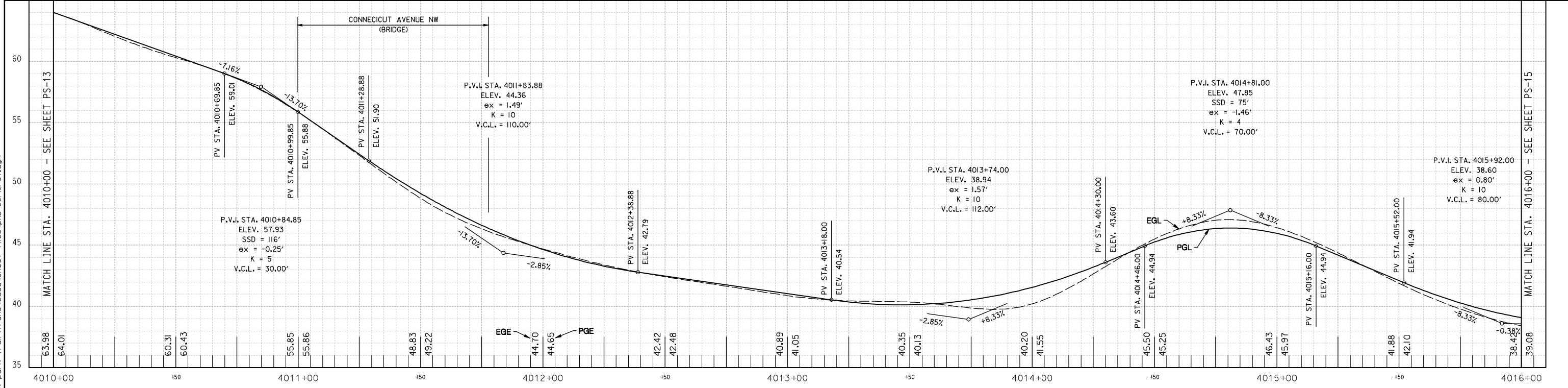
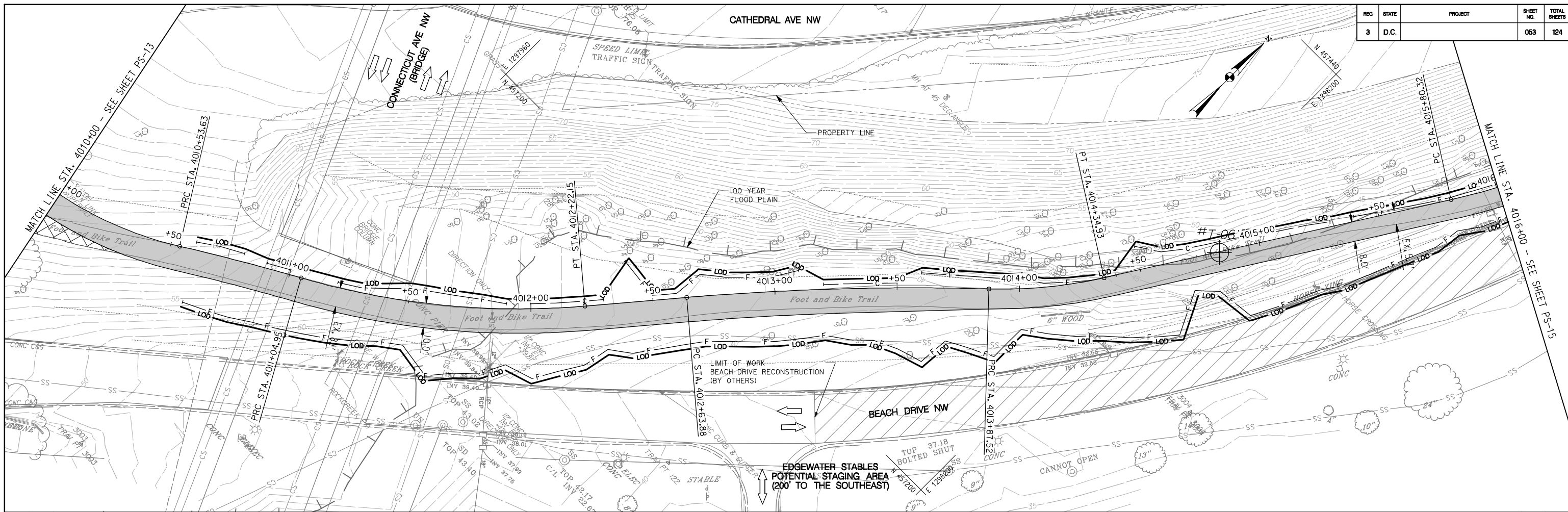
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INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013	SCALE: H: 1"=20'; V: 1"=4'	PS-13
PLAN AND PROFILE SHEET		DIVISION CHIEF
		DATE _____
		FILE _____
		SHEET 062 OF 124

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		063	124



PAVEMENT LEGEND

- PR. ASPHALT PAVEMENT
- PR. CONCRETE SIDEWALK
- WORK PROPOSED BY OTHERS
- PAVEMENT REMOVAL

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VERTICAL SCALE: 1" = 4'
HORIZONTAL SCALE: 1" = 20'

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ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

DATE: 09-13-2013 SCALE: H: 1"=20'; V: 1"=4' PS-14

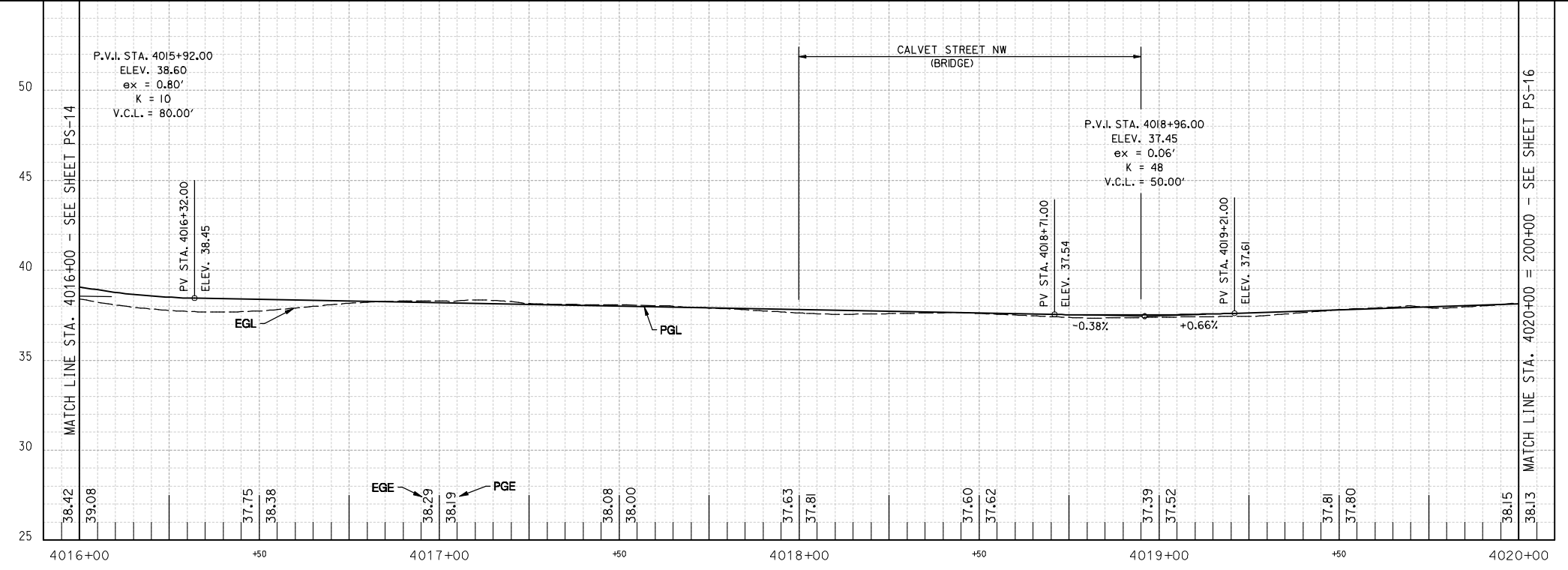
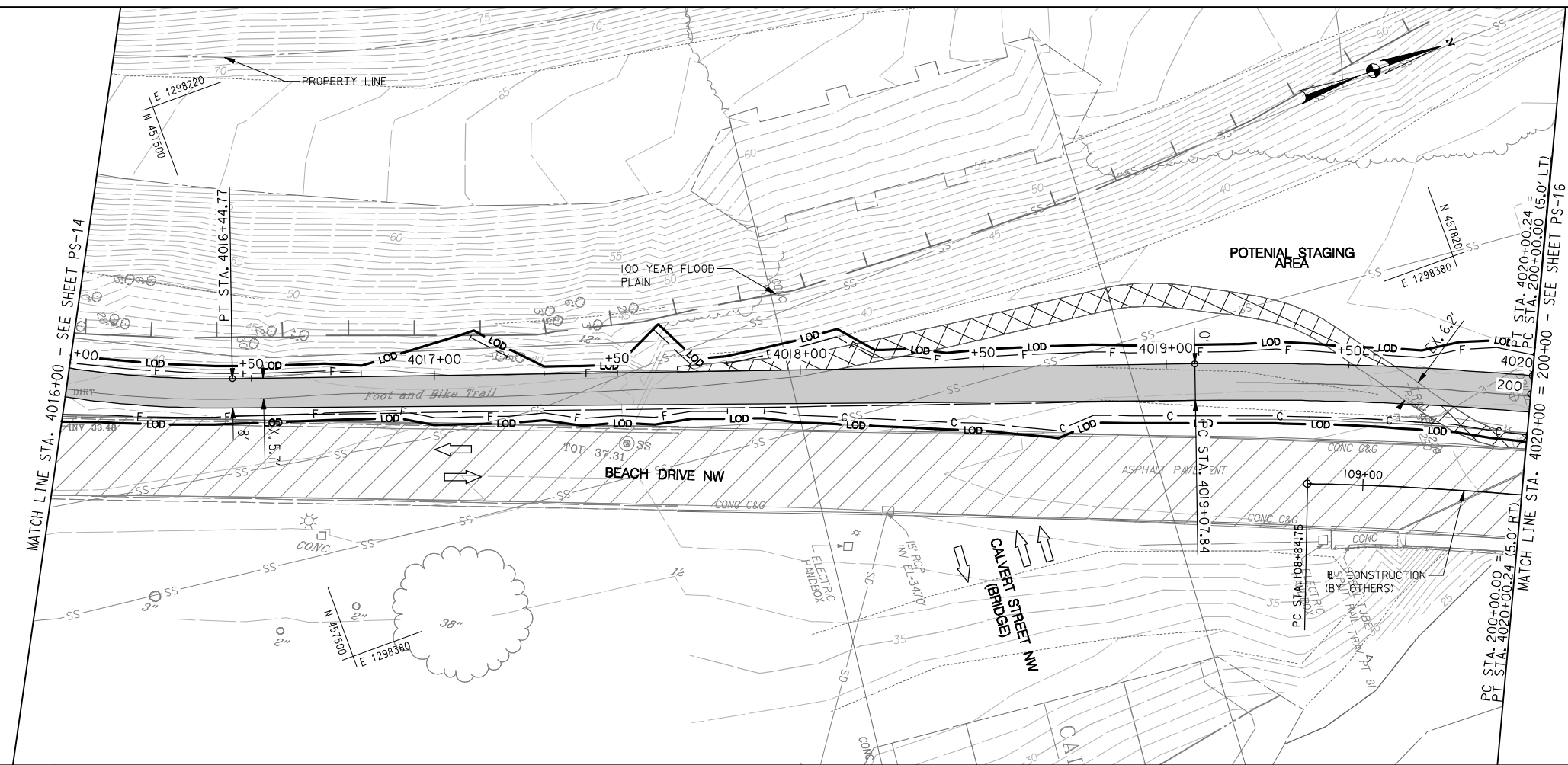
DIVISION CHIEF _____

PLAN AND PROFILE SHEET

DATE _____
FILE _____
SHEET 063 OF 124

Thursday, September 12, 2013 AT 03:33 PM
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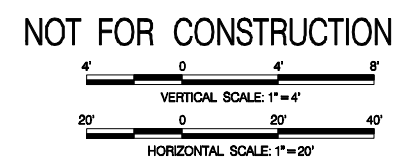
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		054	124



Thursday, September 12, 2013 AT 03:33 PM
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PAVEMENT LEGEND

	PR. ASPHALT PAVEMENT
	PR. CONCRETE SIDEWALK
	WORK PROPOSED BY OTHERS
	PAVEMENT REMOVAL



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

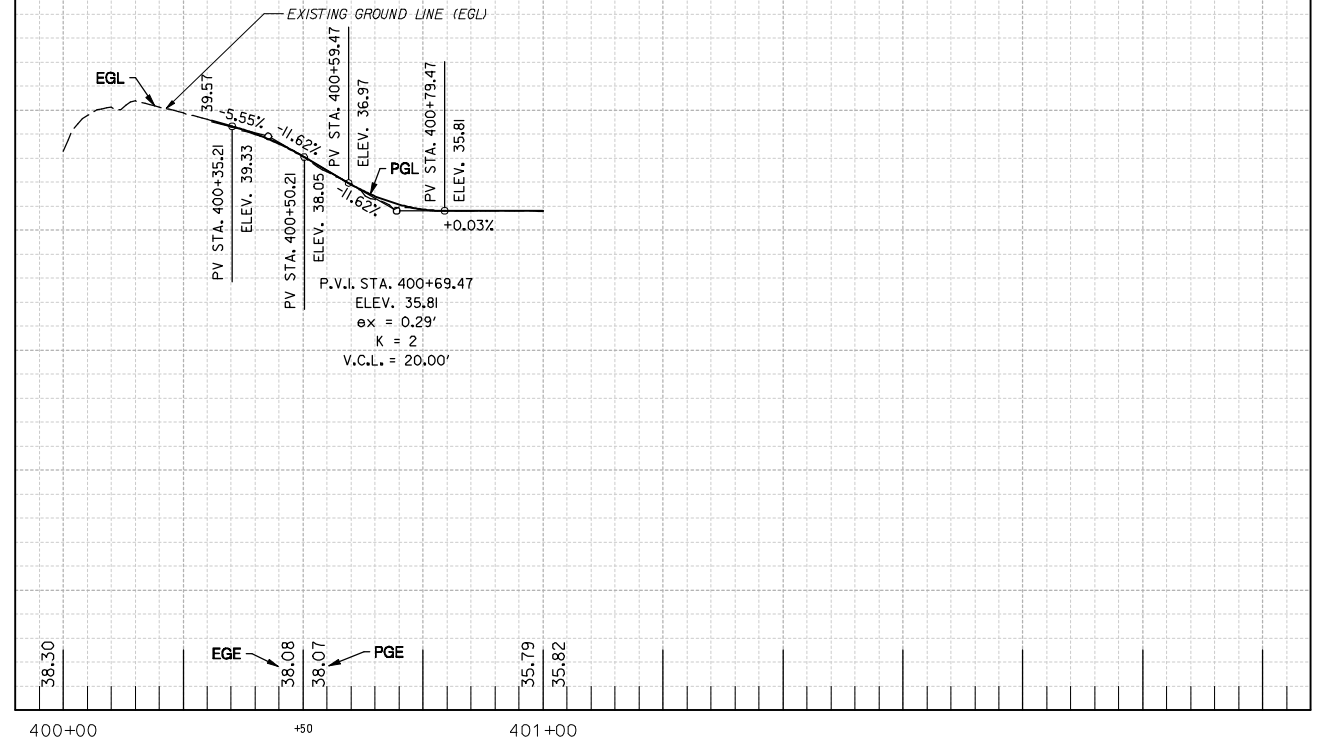
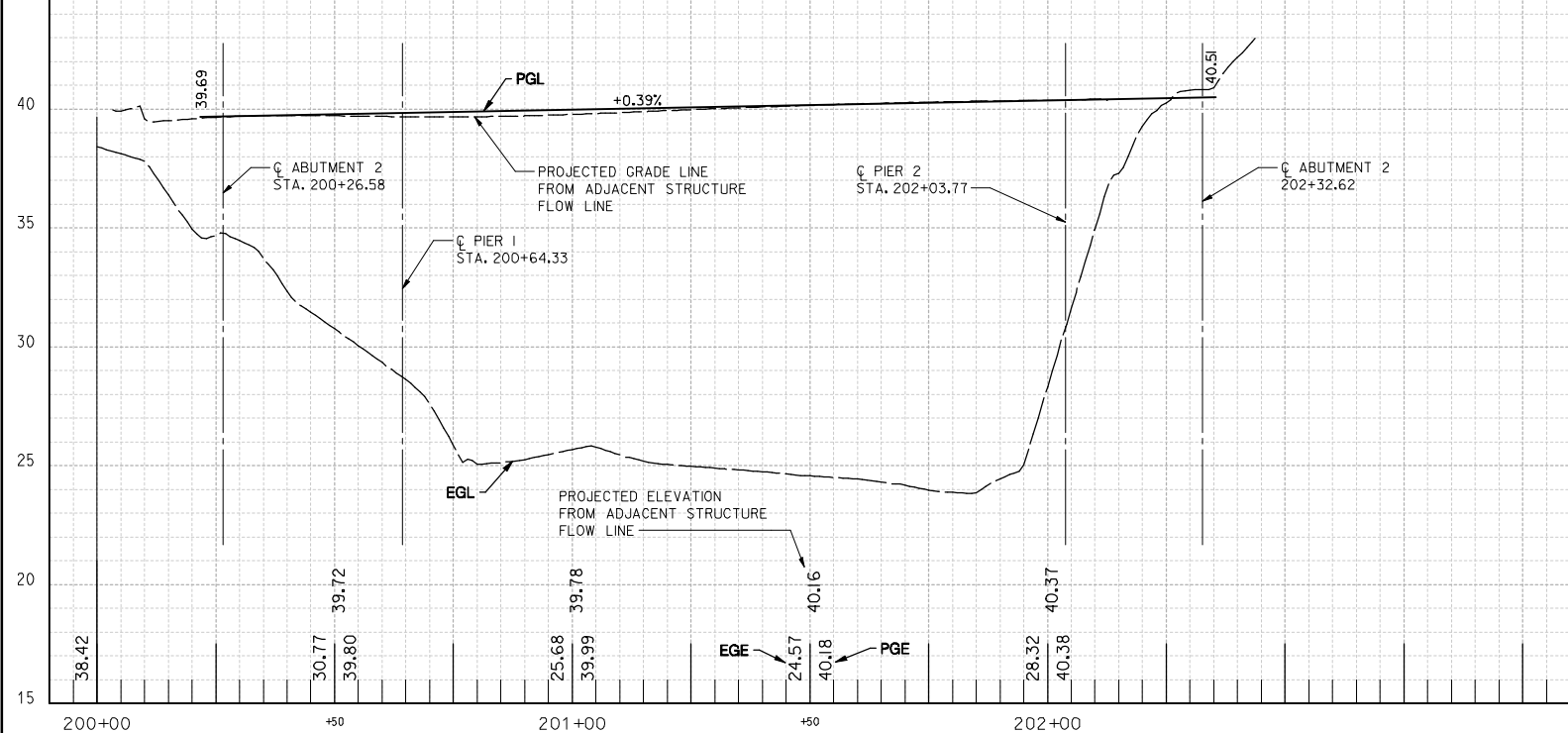
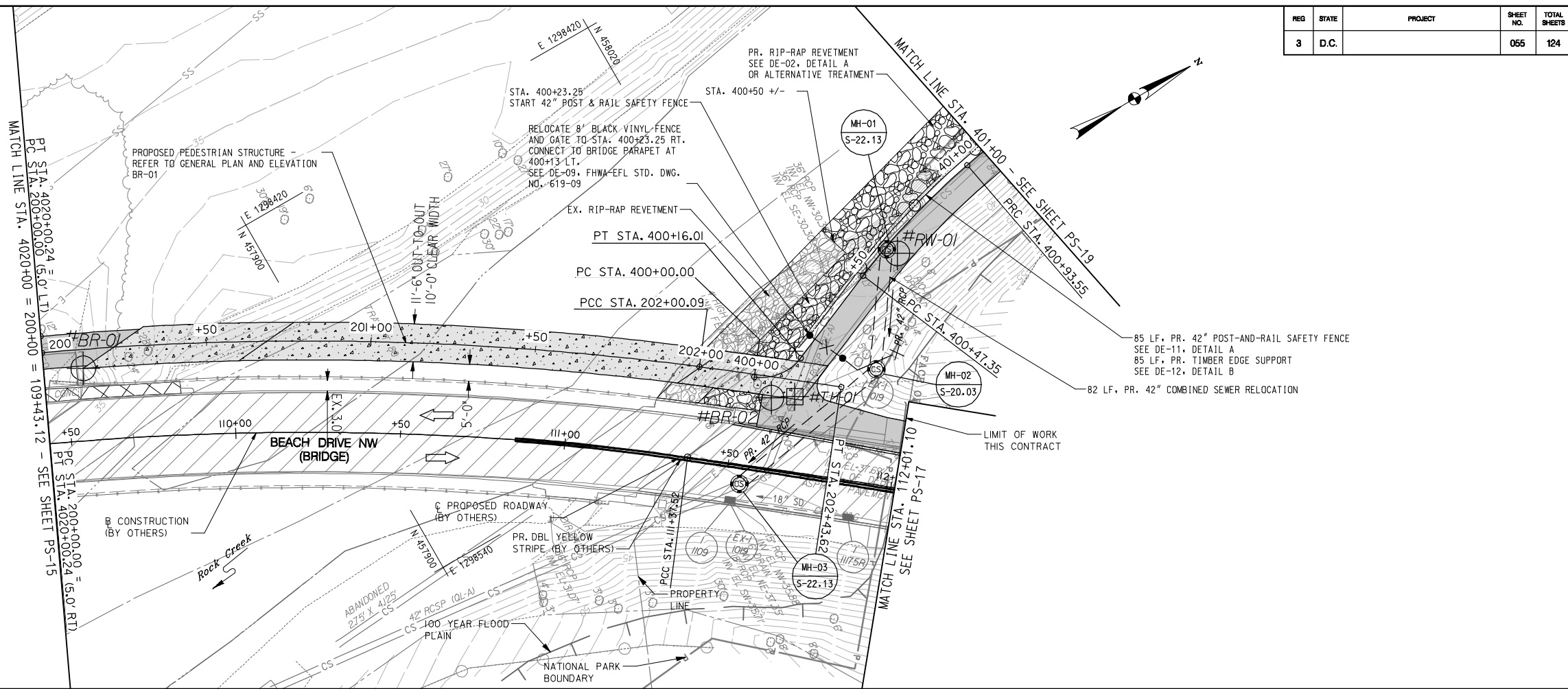
PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

DATE: 09-13-2013	SCALE: H: 1"=20'; V: 1"=4'	PS-15
PLAN AND PROFILE SHEET		DIVISION CHIEF
		DATE _____
		FILE _____
		SHEET 054 OF 124

TABLE I
Summary of Water Surface Elevation (WSE) Upstream of Beach Drive Bridge & Beach Drive Pedestrian Bridge

Storm Frequency	WSE - Ex. Conditions (ft)		WSE - Proposed Conditions (ft)	
	Beach Drive Bridge	Beach Drive Pedestrian Bridge	Beach Drive Bridge	Pedestrian Trail Bridge
2-Year	36.61	36.61	36.72	36.72
10-Year	37.22	37.22	39.76	39.76
100-Year	44.15	44.15	44.02	44.02
500-Year	46.15	46.15	46.02	46.02

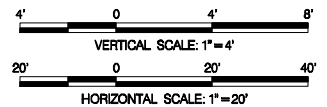
SOURCE: HYDROLOGY, HYDRAULICS, AND BRIDGE SCOUR ANALYSIS
30% COMPUTATION REPORT / JULY, 2013



PAVEMENT LEGEND

- PR. ASPHALT PAVEMENT
- PR. CONCRETE SIDEWALK
- WORK PROPOSED BY OTHERS
- PAVEMENT REMOVAL
- PR. PEDESTRIAN STRUCTURE

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ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

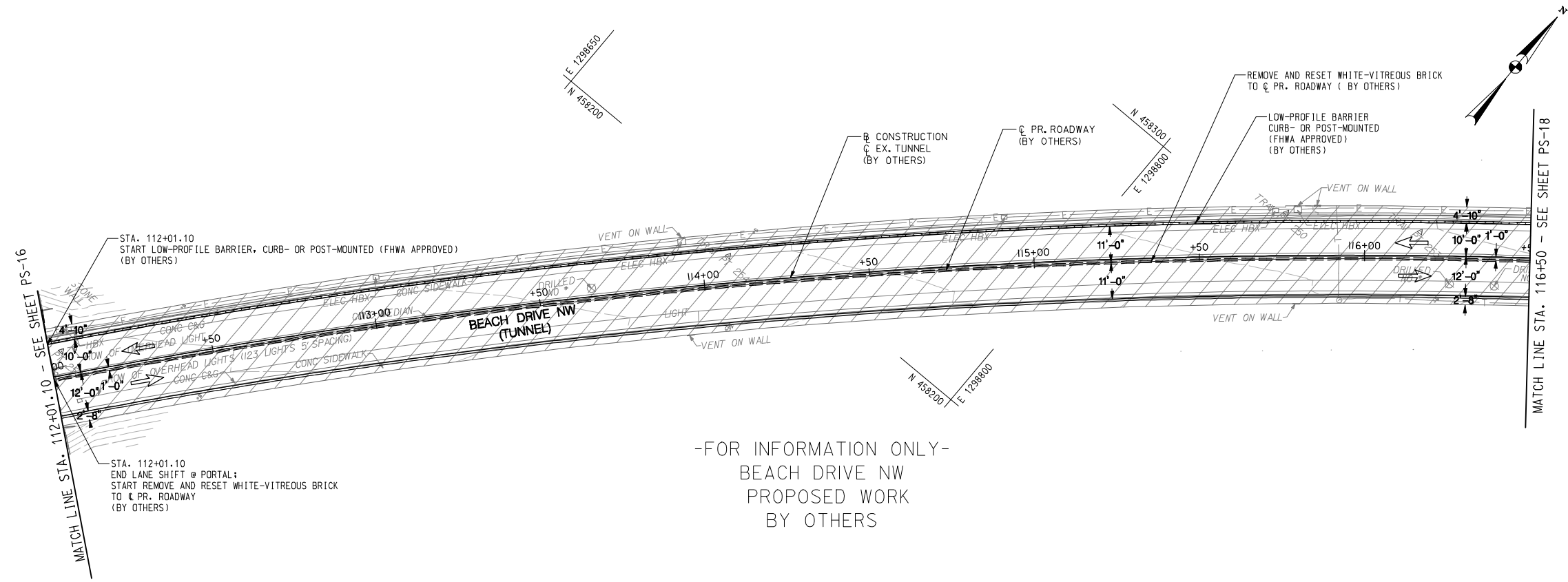
DATE: 09-13-2013 SCALE: H: 1"=20'; V: 1"=4' PS-16

PLAN AND PROFILE SHEET

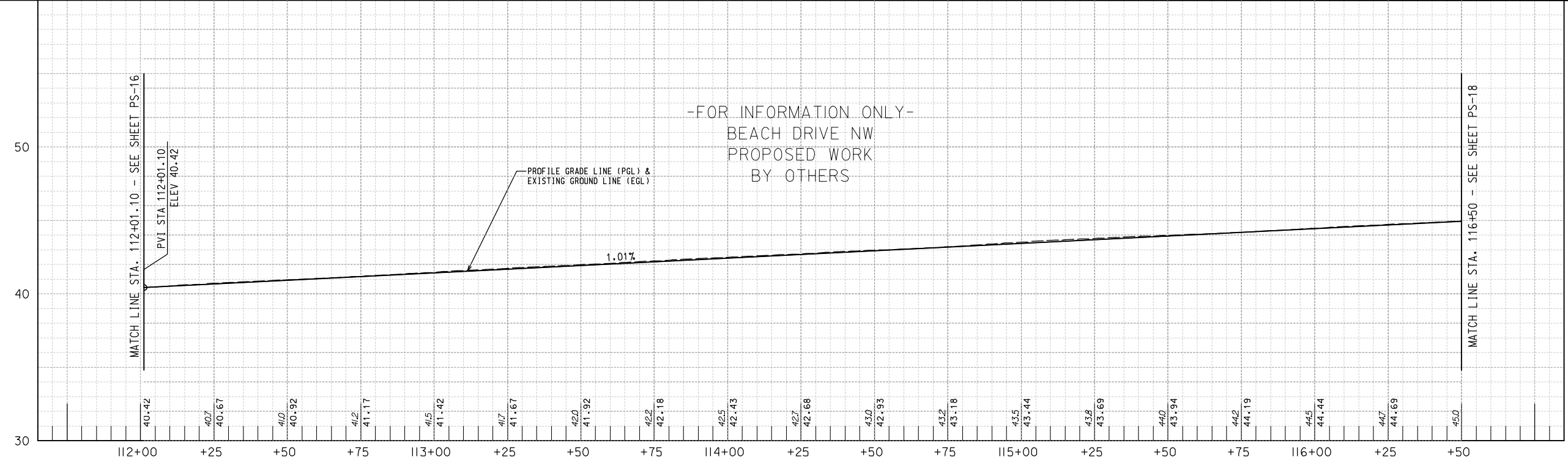
DIVISION CHIEF _____
DATE _____
FILE _____
SHEET 055 OF 124

Thursday, September 12, 2013 AT 03:33 PM
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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		056	124



-FOR INFORMATION ONLY-
BEACH DRIVE NW
PROPOSED WORK
BY OTHERS



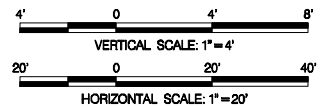
-FOR INFORMATION ONLY-
BEACH DRIVE NW
PROPOSED WORK
BY OTHERS

Thursday, September 12, 2013 AT 03:33 PM
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PAVEMENT LEGEND

- PR. ASPHALT PAVEMENT
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REVISIONS			

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PROJECT MANAGEMENT DIVISION

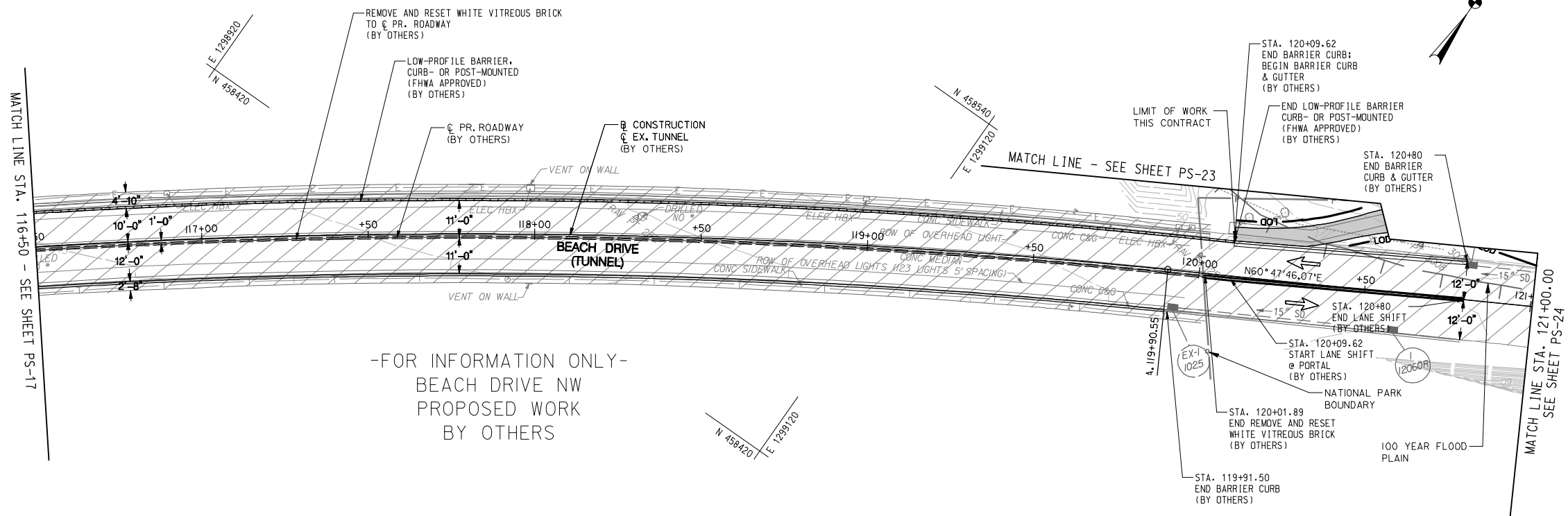
ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

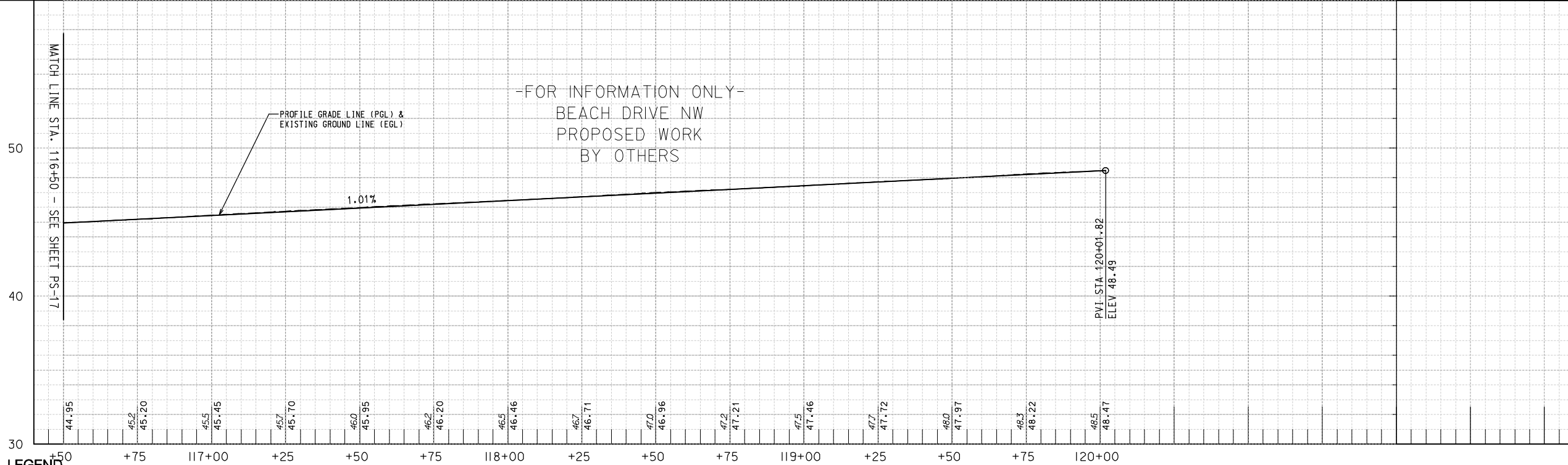
DATE: 09-13-2013 SCALE: H: 1"=20'; V: 1"=4' PS-17

PLAN AND PROFILE SHEET

DIVISION CHIEF _____
DATE _____
FILE _____
SHEET 056 OF 124



-FOR INFORMATION ONLY-
BEACH DRIVE NW
PROPOSED WORK
BY OTHERS

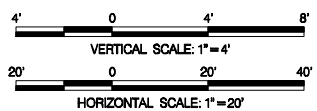


-FOR INFORMATION ONLY-
BEACH DRIVE NW
PROPOSED WORK
BY OTHERS

PAVEMENT LEGEND

- PR. ASPHALT PAVEMENT
- PR. CONCRETE SIDEWALK
- WORK PROPOSED BY OTHERS
- PAVEMENT REMOVAL

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ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

DATE: 09-13-2013

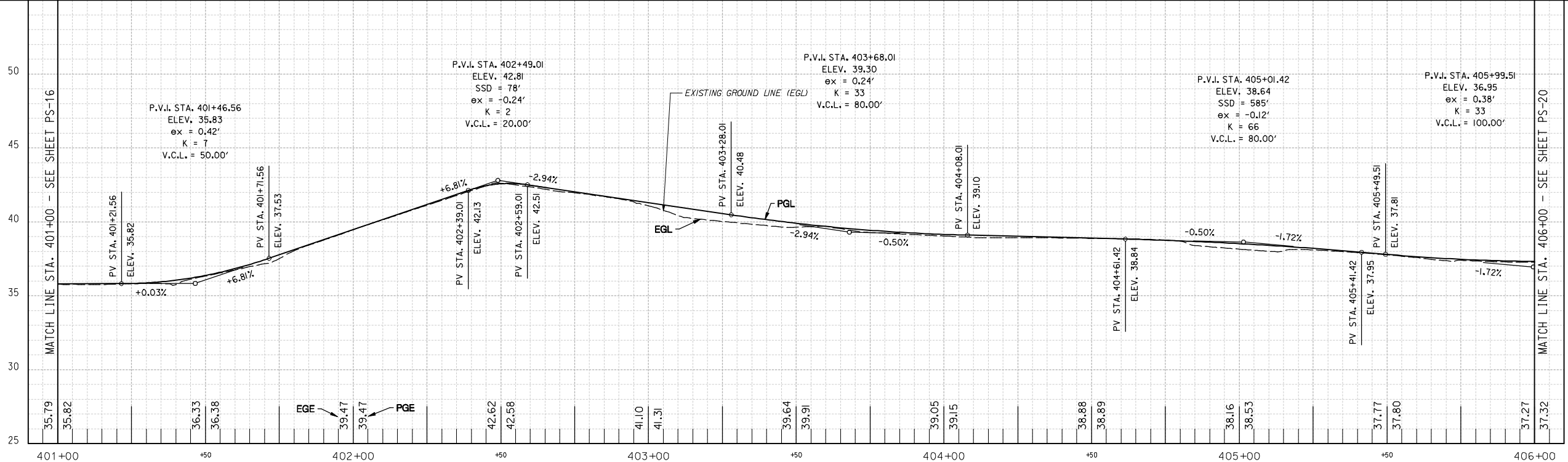
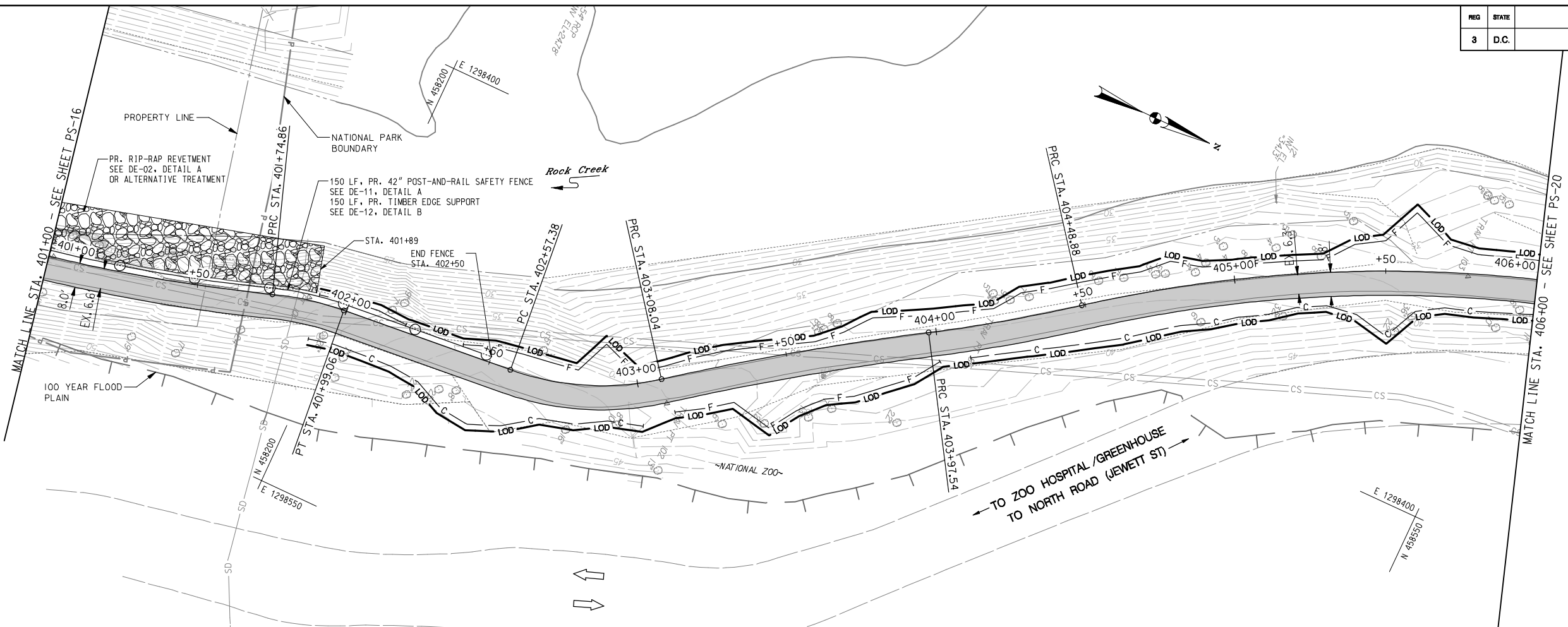
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PS-18

DIVISION CHIEF

PLAN AND PROFILE SHEET

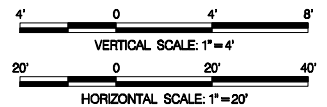
DATE _____
FILE _____
SHEET 057 OF 124



PAVEMENT LEGEND

- PR. ASPHALT PAVEMENT
- PR. CONCRETE SIDEWALK
- WORK PROPOSED BY OTHERS
- PAVEMENT REMOVAL

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REVISIONS			

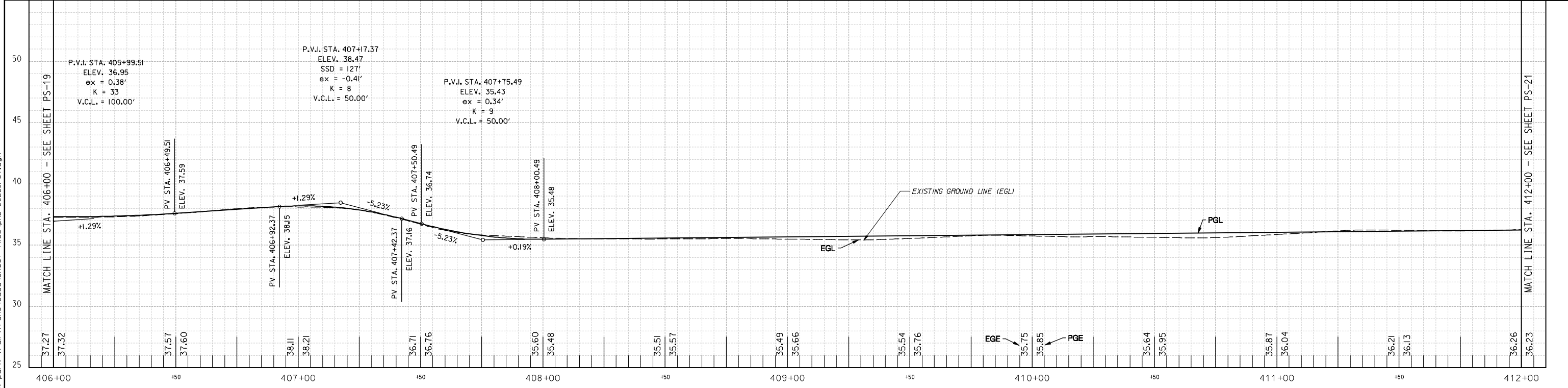
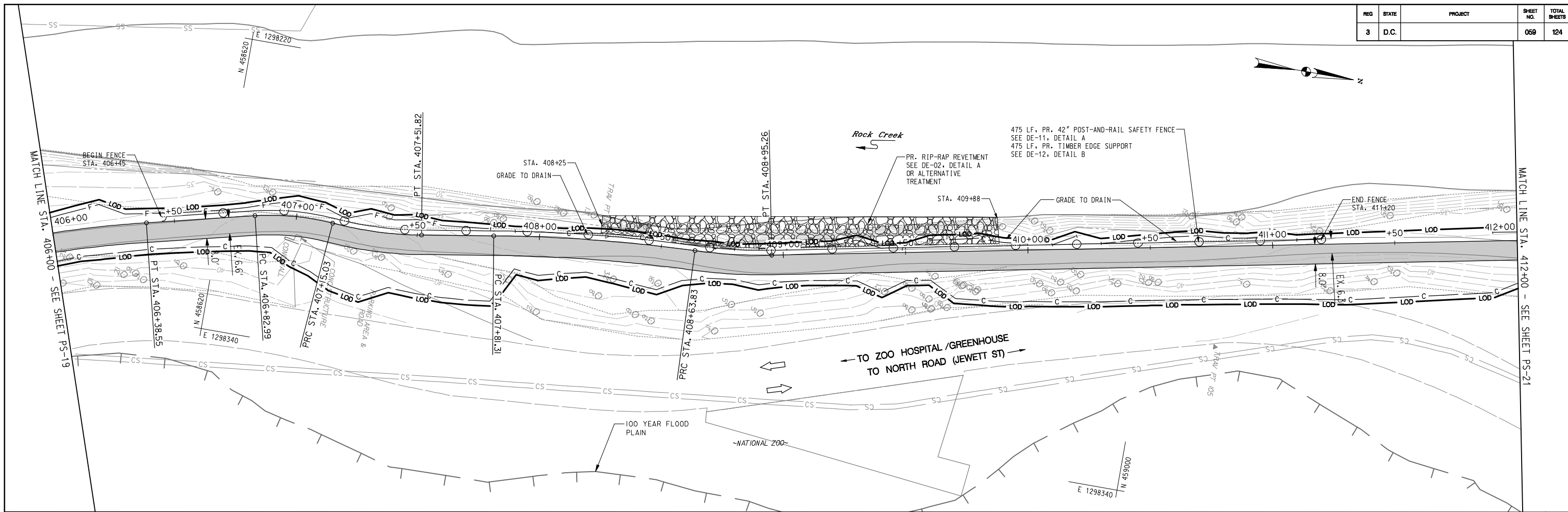
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PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
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 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013	SCALE: H: 1"=20'; V: 1"=4'	PS-19
PLAN AND PROFILE SHEET		DIVISION CHIEF
		DATE _____
		FILE _____
		SHEET 058 OF 124

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PAVEMENT LEGEND

	PR ASPHALT PAVEMENT
	PR CONCRETE SIDEWALK
	WORK PROPOSED BY OTHERS
	PAVEMENT REMOVAL

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VERTICAL SCALE: 1"=4'
 HORIZONTAL SCALE: 1"=20'



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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 PROJECT MANAGEMENT DIVISION

**ROCK CREEK PARK
 MULTI-USE TRAIL REHABILITATION
 30% DESIGN SUBMITTAL**

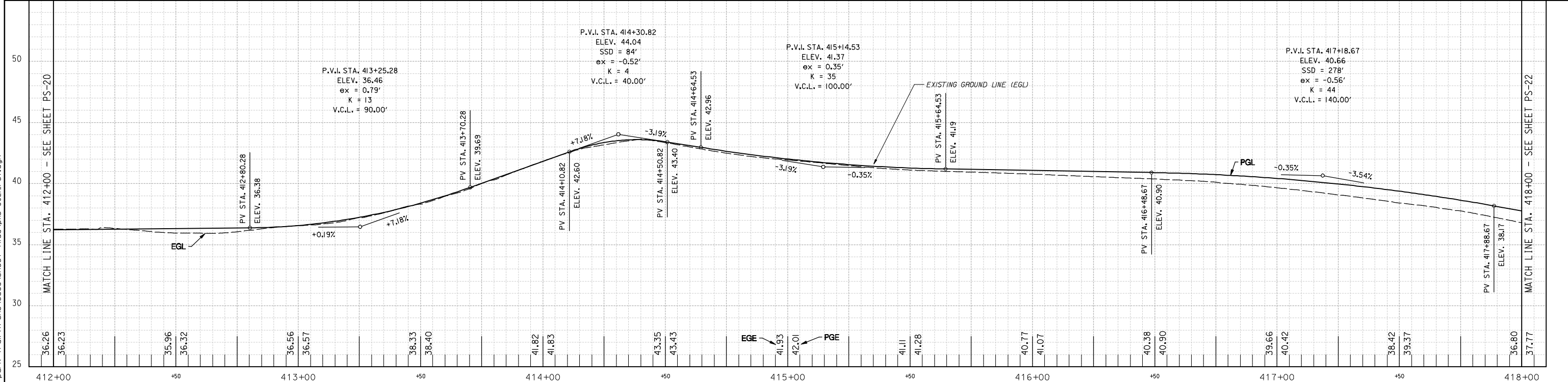
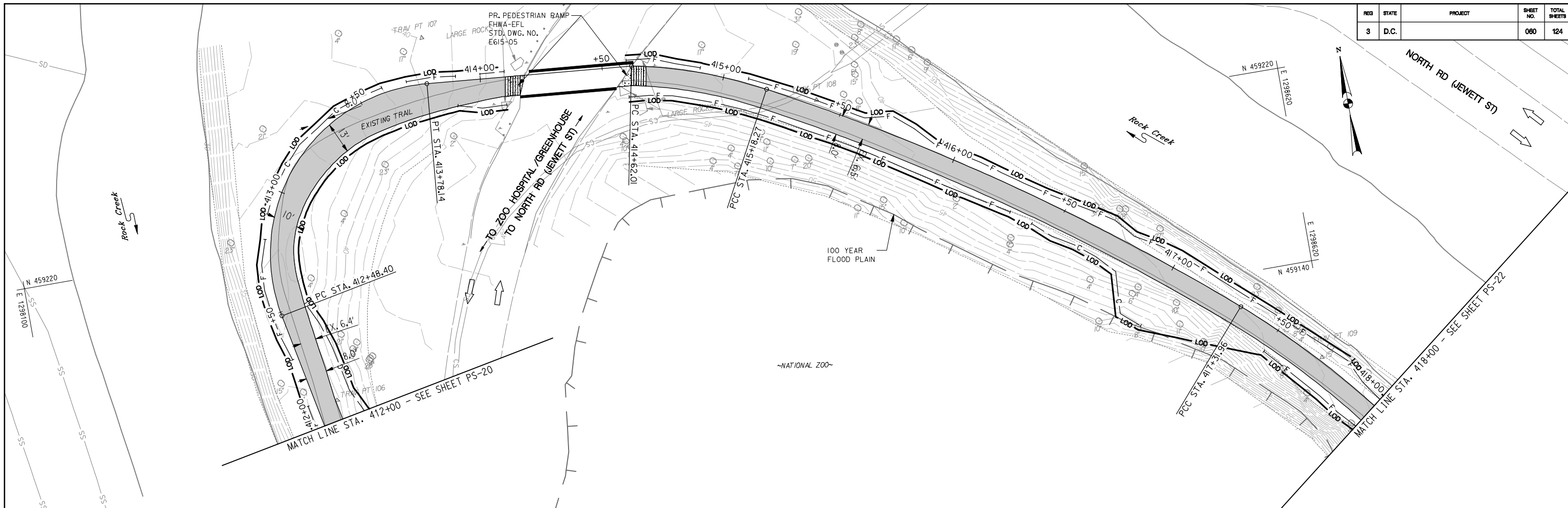
PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013 SCALE: H: 1"=20'; V: 1"=4' PS-20

PLAN AND PROFILE SHEET

DIVISION CHIEF _____
 DATE _____
 FILE _____
 SHEET 069 OF 124

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		060	124

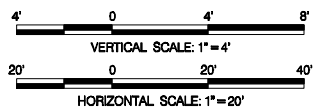


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PAVEMENT LEGEND

- PR ASPHALT PAVEMENT
- PR CONCRETE SIDEWALK
- WORK PROPOSED BY OTHERS
- PAVEMENT REMOVAL

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 PROJECT MANAGEMENT DIVISION

**ROCK CREEK PARK
 MULTI-USE TRAIL REHABILITATION
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PROJECT ENG. _____
 DESIGNED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013

SCALE: H: 1"=20'; V: 1"=4'

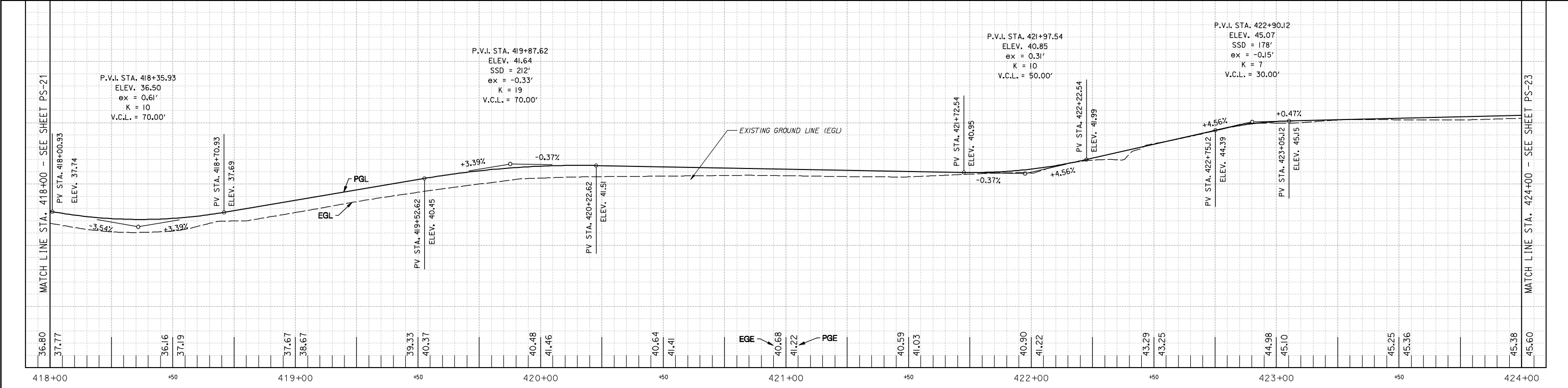
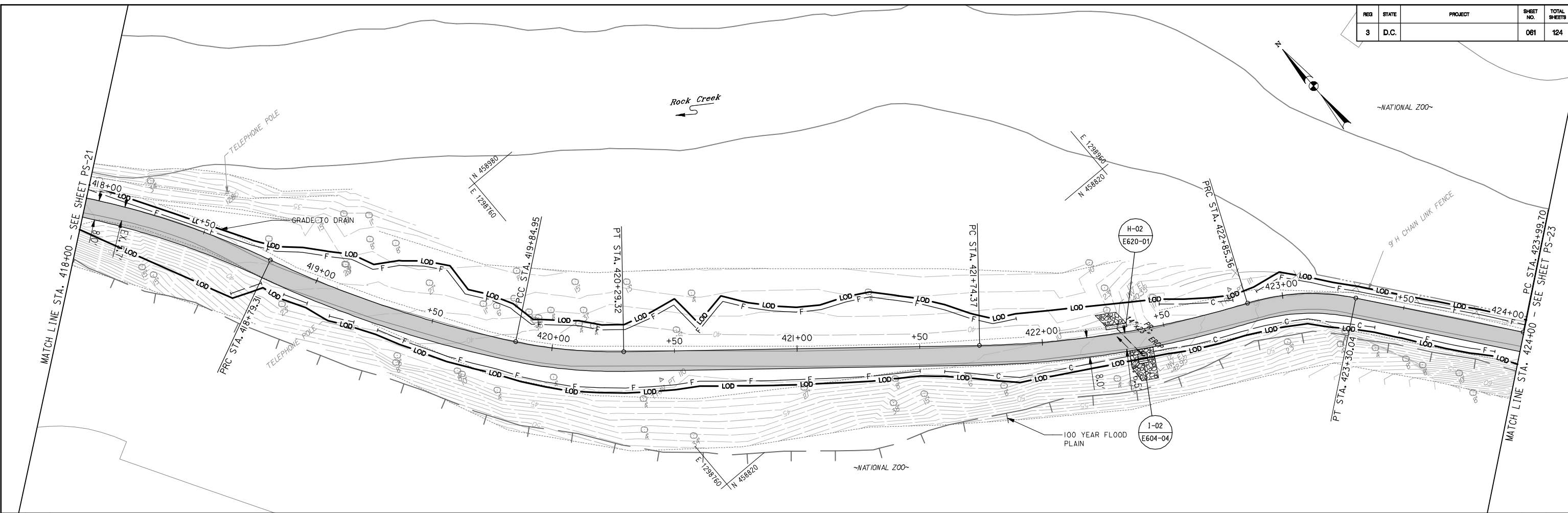
PS-21

PLAN AND PROFILE SHEET

DIVISION CHIEF

DATE _____
 FILE _____
 SHEET 060 OF 124

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		061	124



PAVEMENT LEGEND

- PR. ASPHALT PAVEMENT
- PR. CONCRETE SIDEWALK
- WORK PROPOSED BY OTHERS
- PAVEMENT REMOVAL

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VERTICAL SCALE: 1" = 4'
HORIZONTAL SCALE: 1" = 20'



NO.	DESCRIPTION	NAME	DATE
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CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

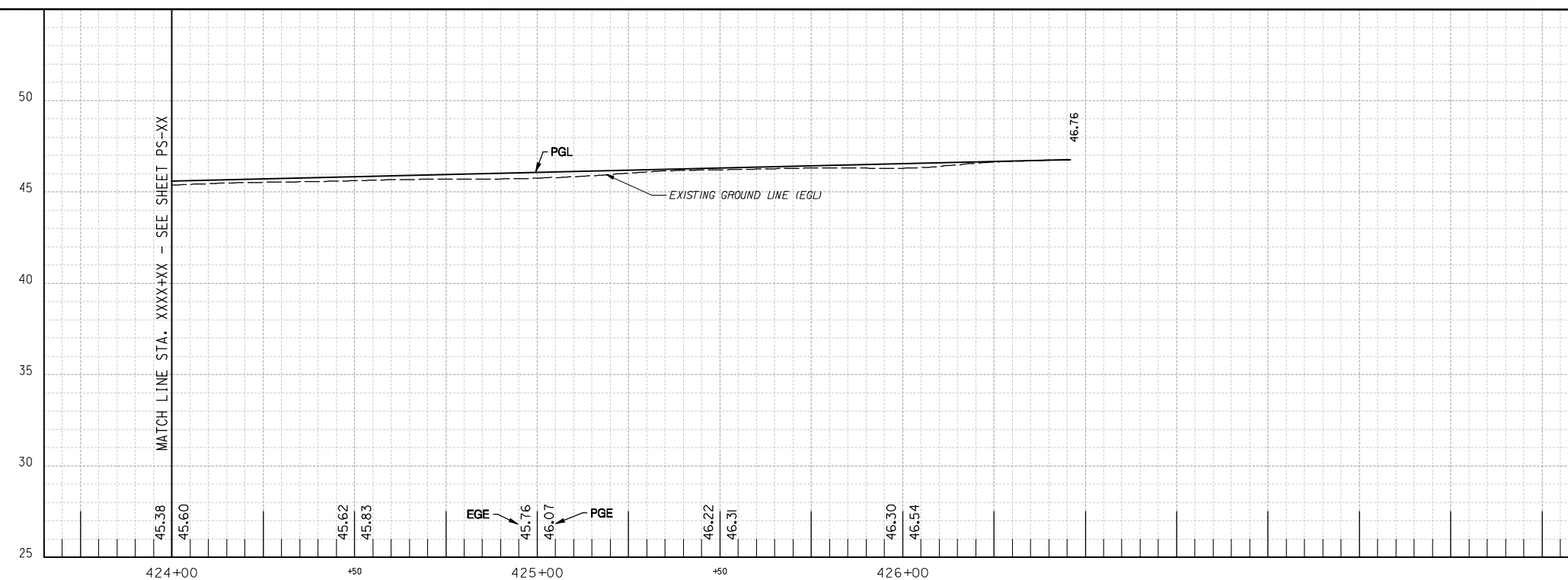
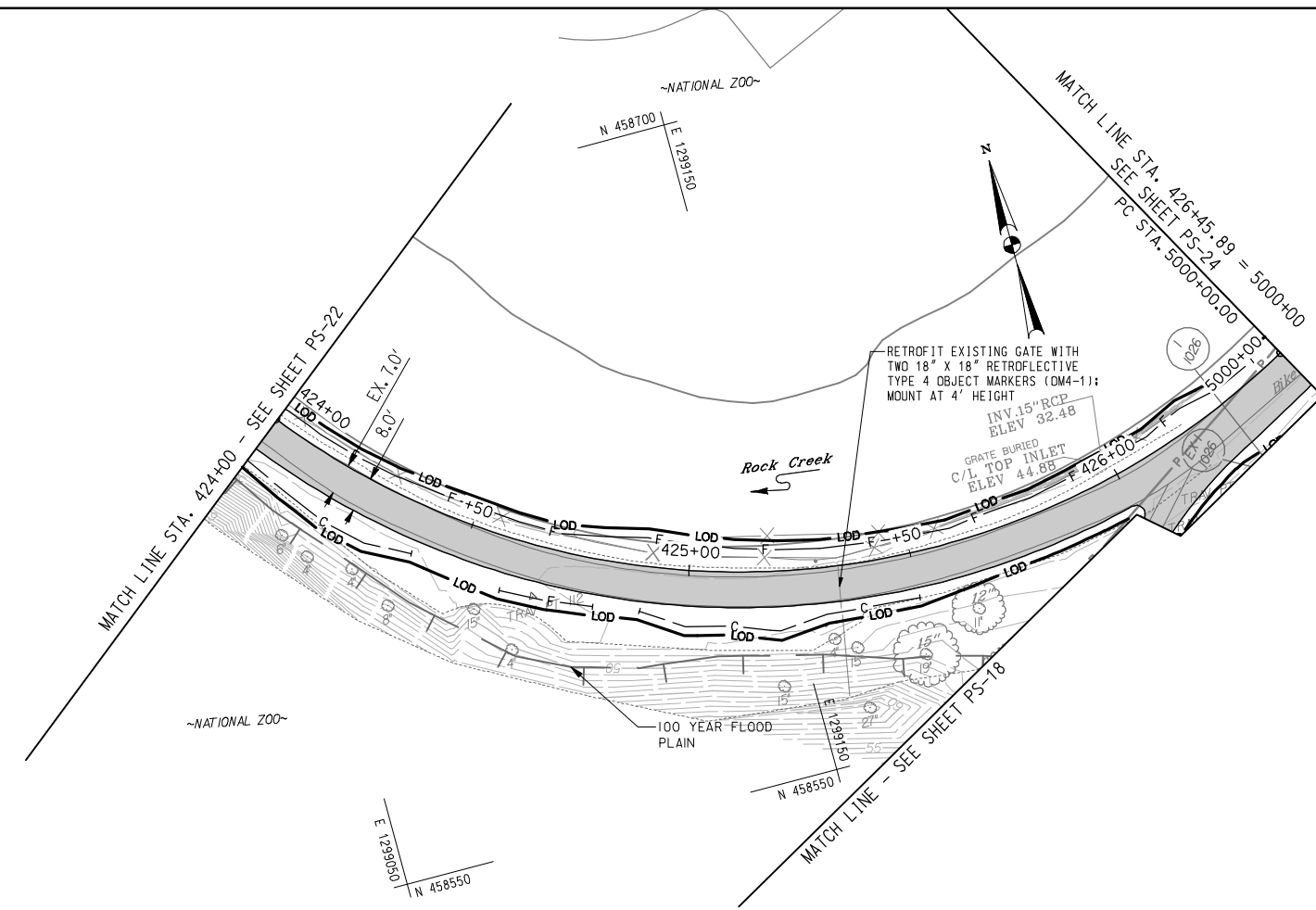
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PLAN AND PROFILE SHEET

DIVISION CHIEF _____
DATE _____
FILE _____
SHEET 061 OF 124

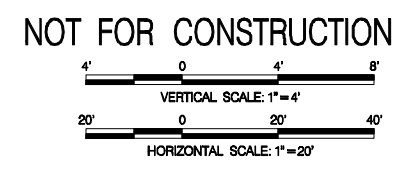
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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		062	124



PAVEMENT LEGEND

- PR. ASPHALT PAVEMENT
- PR. CONCRETE SIDEWALK
- WORK PROPOSED BY OTHERS
- PAVEMENT REMOVAL



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

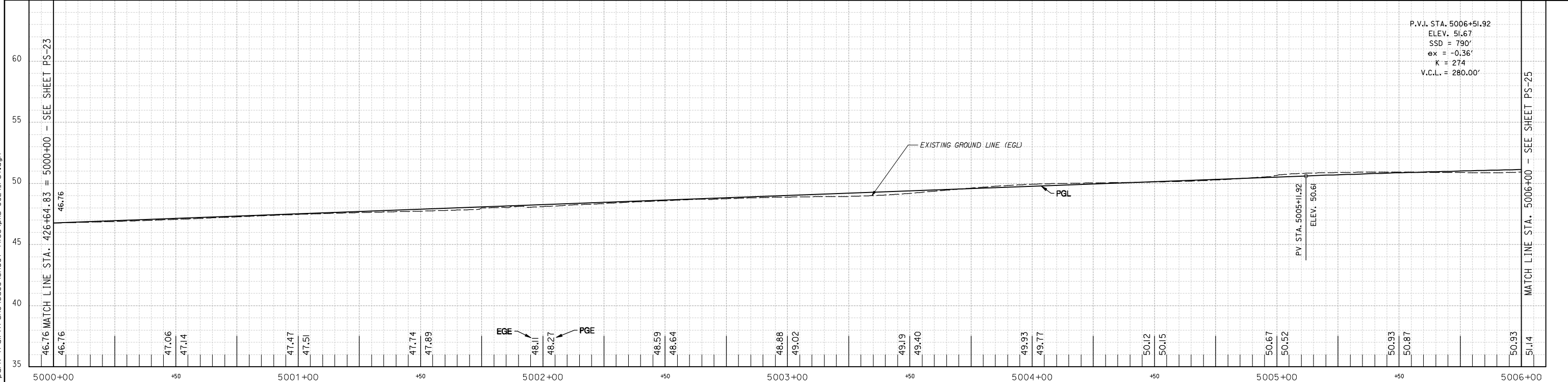
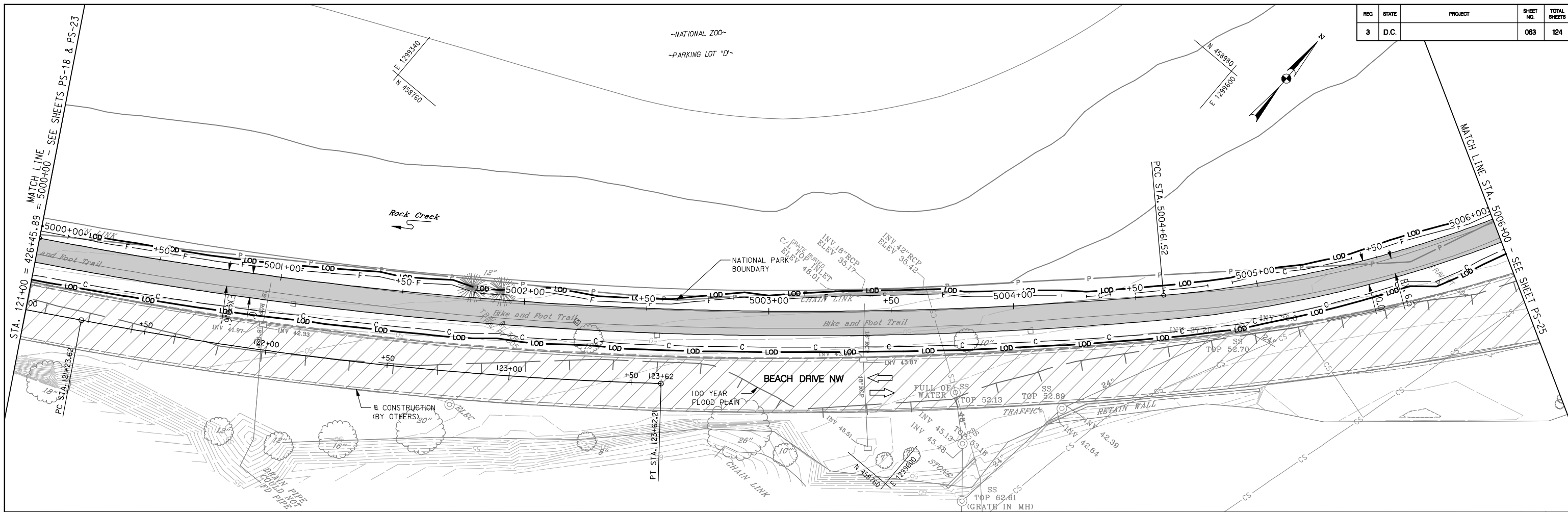
DATE: 09-13-2013 SCALE: H: 1"=20'; V: 1"=4' PS-23

PLAN AND PROFILE SHEET

DIVISION CHIEF _____
DATE _____
FILE _____
SHEET 062 OF 124

Thursday, September 12, 2013 AT 03:34 PM
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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		083	124

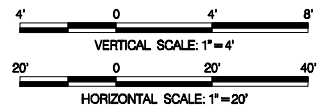


Thursday, September 12, 2013 AT 03:34 PM
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PAVEMENT LEGEND

- PR. ASPHALT PAVEMENT
- PR. CONCRETE SIDEWALK
- WORK PROPOSED BY OTHERS
- PAVEMENT REMOVAL

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PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

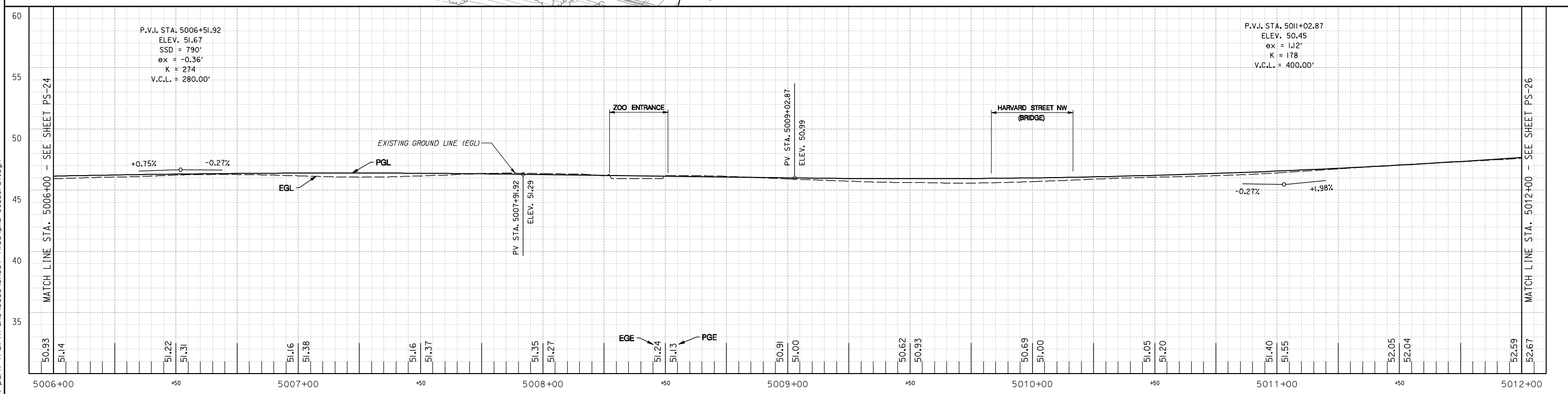
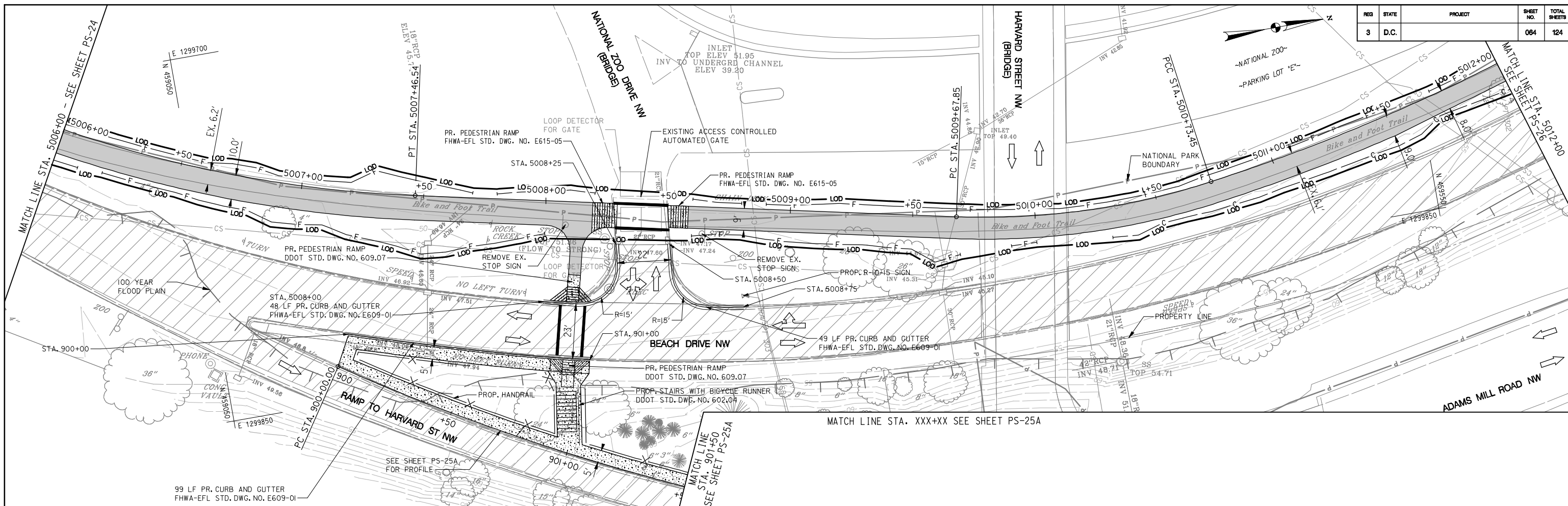
PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013 SCALE: H: 1"=20'; V: 1"=4' PS-24

PLAN AND PROFILE SHEET

DIVISION CHIEF _____
 DATE _____
 FILE _____
 SHEET 083 OF 124

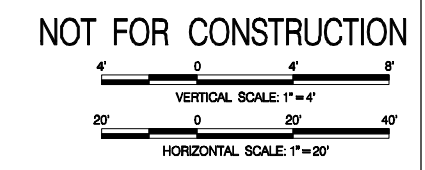
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		064	124



Thursday, September 12, 2013 AT 03:34 PM
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PAVEMENT LEGEND

	PR. ASPHALT PAVEMENT
	PR. CONCRETE SIDEWALK
	WORK PROPOSED BY OTHERS
	PAVEMENT REMOVAL



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
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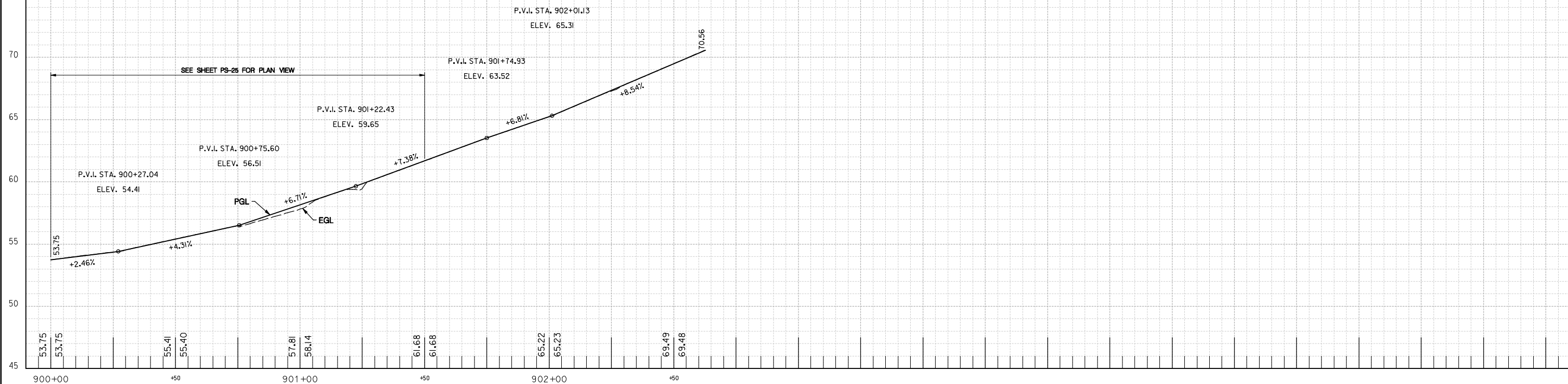
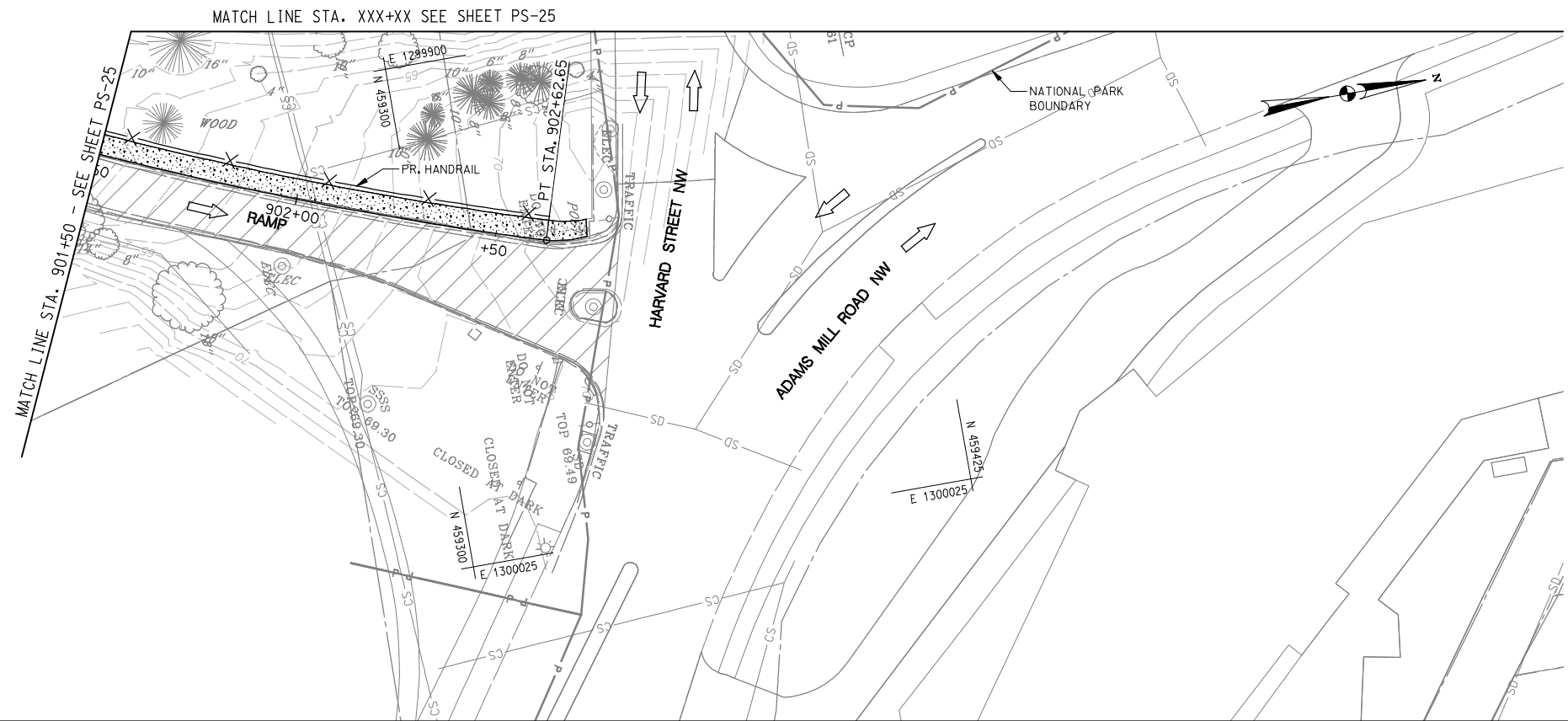
ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013 SCALE: H: 1"=20'; V: 1"=4' PS-25

PLAN AND PROFILE SHEET

DIVISION CHIEF _____
 DATE _____
 FILE _____
 SHEET 064 OF 124

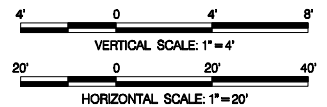


Thursday, September 12, 2013 AT 03:34 PM
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PAVEMENT LEGEND

- PR. ASPHALT PAVEMENT
- PR. CONCRETE SIDEWALK
- WORK PROPOSED BY OTHERS
- PAVEMENT REMOVAL

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PROJECT MANAGEMENT DIVISION

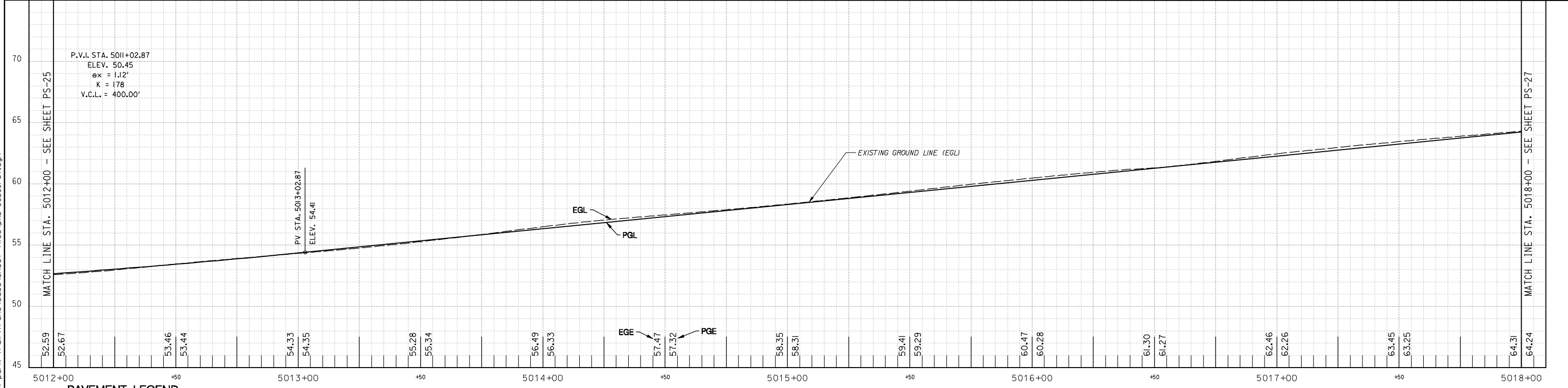
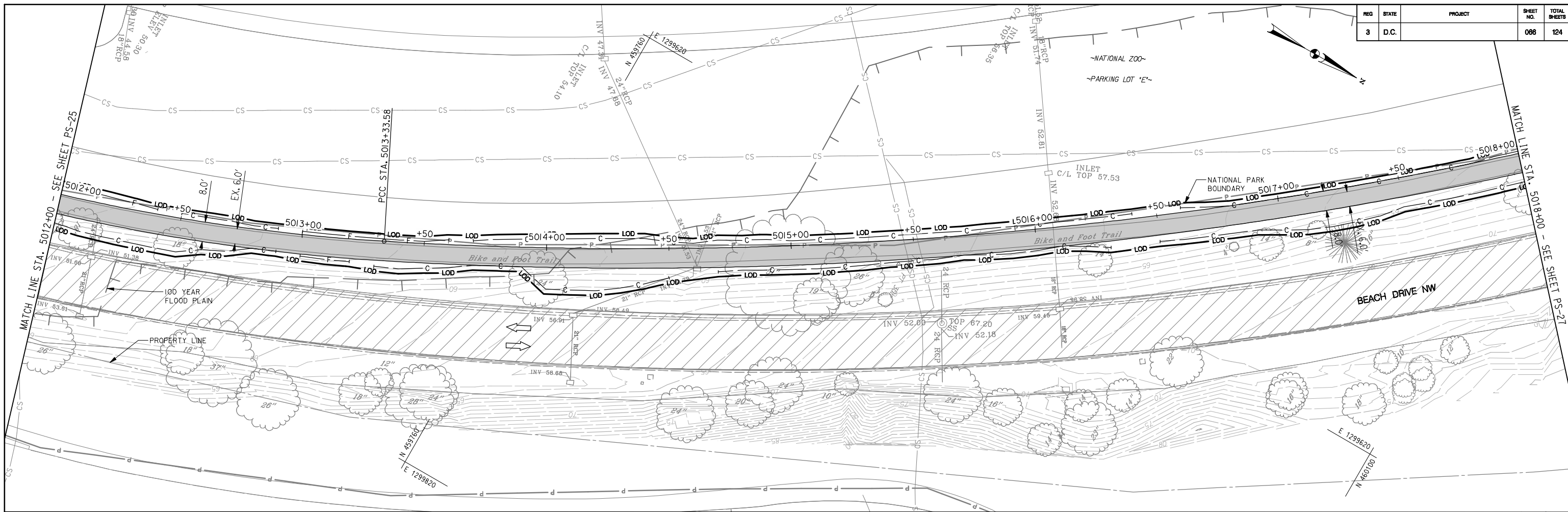
ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013 SCALE: H: 1"=20'; V: 1"=4' PS-25A

PLAN AND PROFILE SHEET

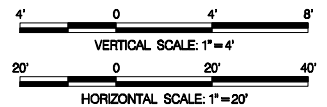
DIVISION CHIEF _____
 DATE _____
 FILE _____
 SHEET 065 OF 124



PAVEMENT LEGEND

- PR ASPHALT PAVEMENT
- PR CONCRETE SIDEWALK
- WORK PROPOSED BY OTHERS
- PAVEMENT REMOVAL

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PROJECT MANAGEMENT DIVISION

**ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL**

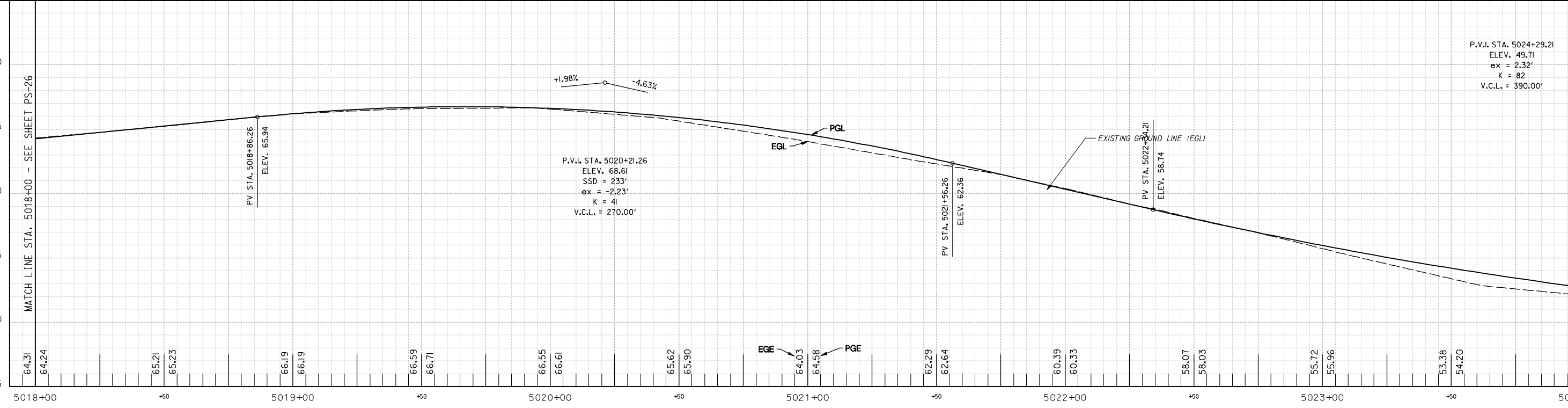
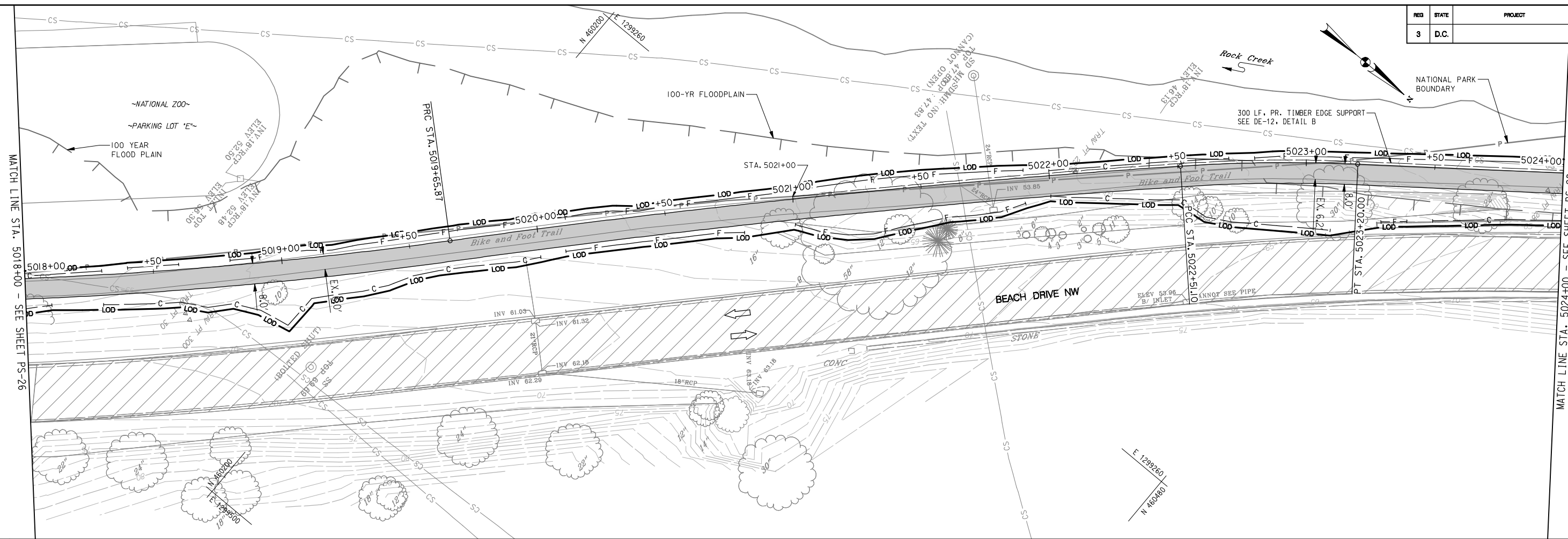
PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

DATE: 09-13-2013 SCALE: H: 1"=20'; V: 1"=4' PS-26

DIVISION CHIEF _____

DATE _____
FILE _____
SHEET 068 OF 124

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		067	124



Thursday, September 12, 2013 AT 03:34 PM
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PAVEMENT LEGEND

	PR. ASPHALT PAVEMENT
	PR. CONCRETE SIDEWALK
	WORK PROPOSED BY OTHERS
	PAVEMENT REMOVAL

NOT FOR CONSTRUCTION

VERTICAL SCALE: 1" = 4'
 HORIZONTAL SCALE: 1" = 20'



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

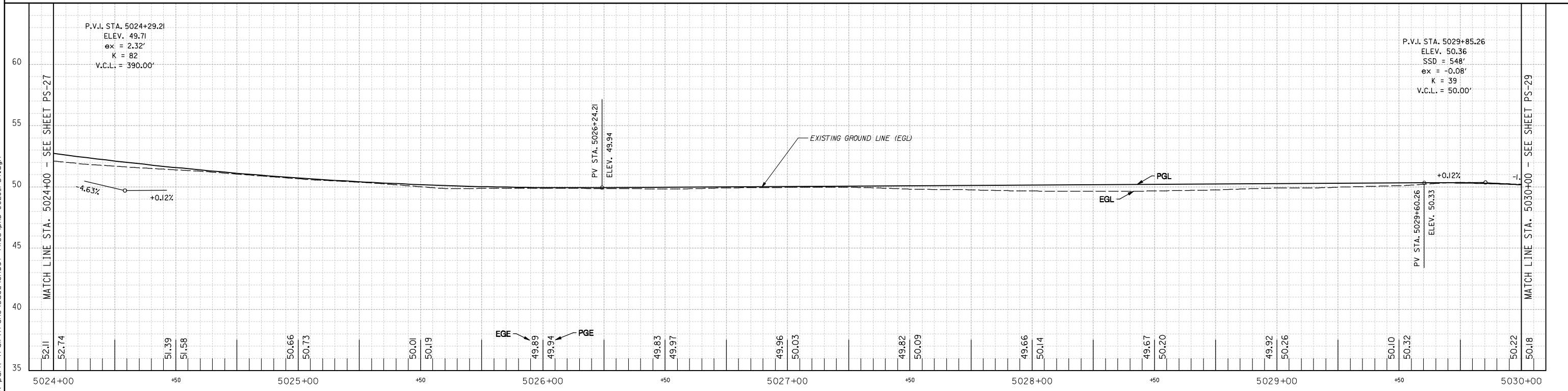
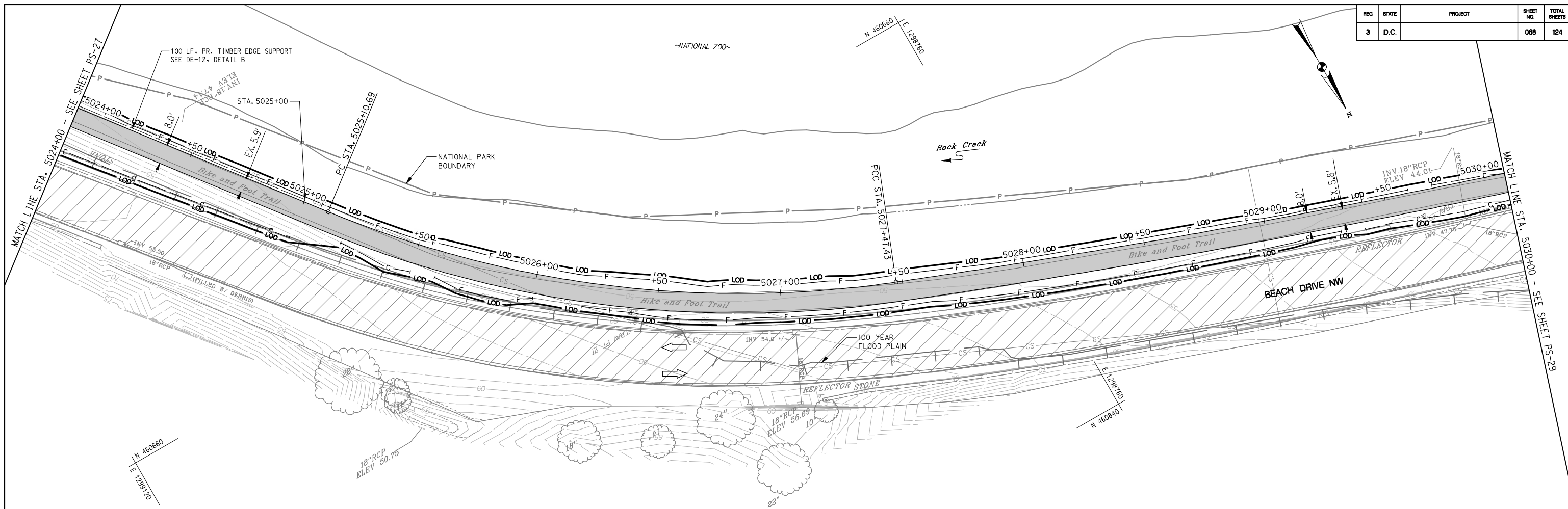
D.C. DEPARTMENT OF TRANSPORTATION
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**ROCK CREEK PARK
 MULTI-USE TRAIL REHABILITATION
 30% DESIGN SUBMITTAL**

PROJECT ENG. _____
 DESIGNED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013	SCALE: H: 1"=20'; V: 1"=4'	PS-27
PLAN AND PROFILE SHEET		DIVISION CHIEF
DATE _____		FILE _____
SHEET 067 OF 124		

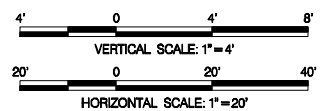
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		088	124



PAVEMENT LEGEND

- PR. ASPHALT PAVEMENT
- PR. CONCRETE SIDEWALK
- WORK PROPOSED BY OTHERS
- PAVEMENT REMOVAL

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**ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL**

PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

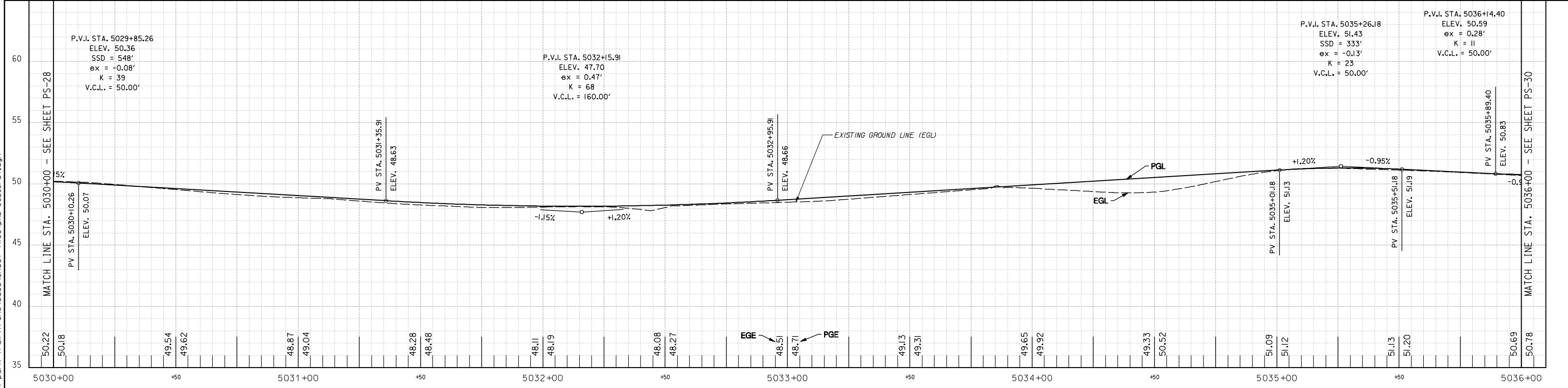
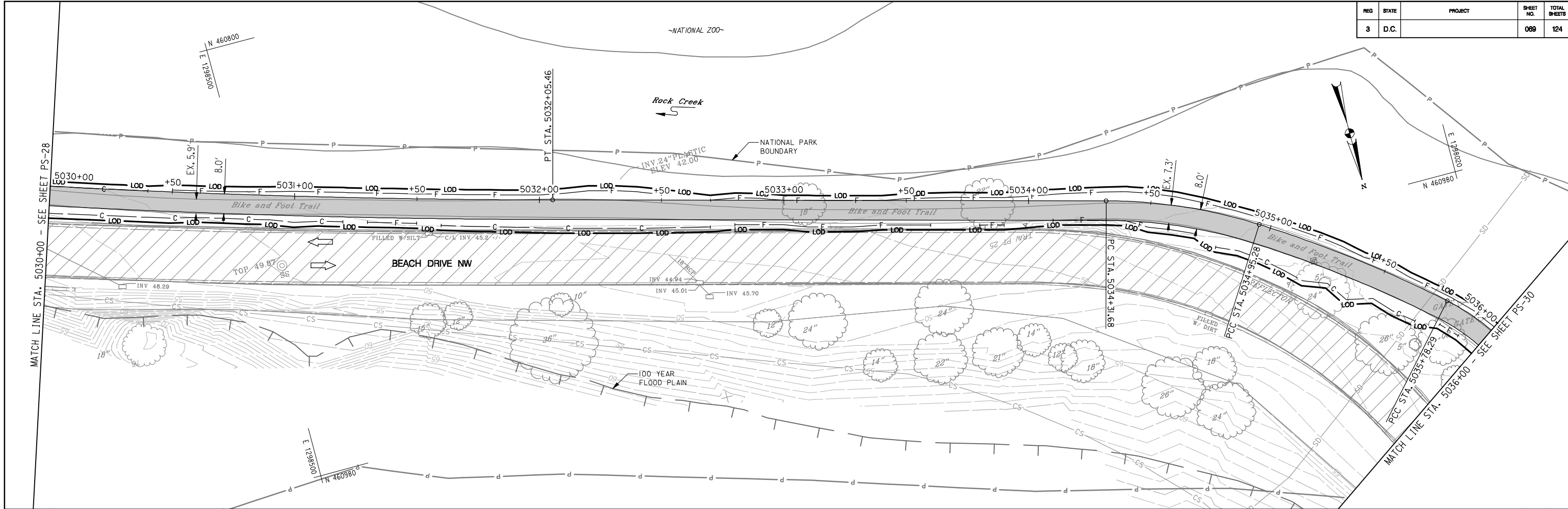
DATE: 09-13-2013 SCALE: H: 1"=20'; V: 1"=4' PS-28

PLAN AND PROFILE SHEET

DIVISION CHIEF _____
DATE _____
FILE _____
SHEET 088 OF 124

Thursday, September 12, 2013 AT 03:34 PM
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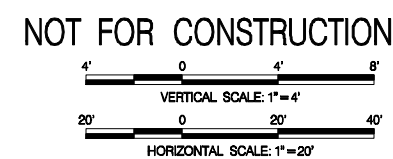
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		089	124



Thursday, September 12, 2013 AT 03:35 PM
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PAVEMENT LEGEND

	PR. ASPHALT PAVEMENT
	PR. CONCRETE SIDEWALK
	WORK PROPOSED BY OTHERS
	PAVEMENT REMOVAL



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

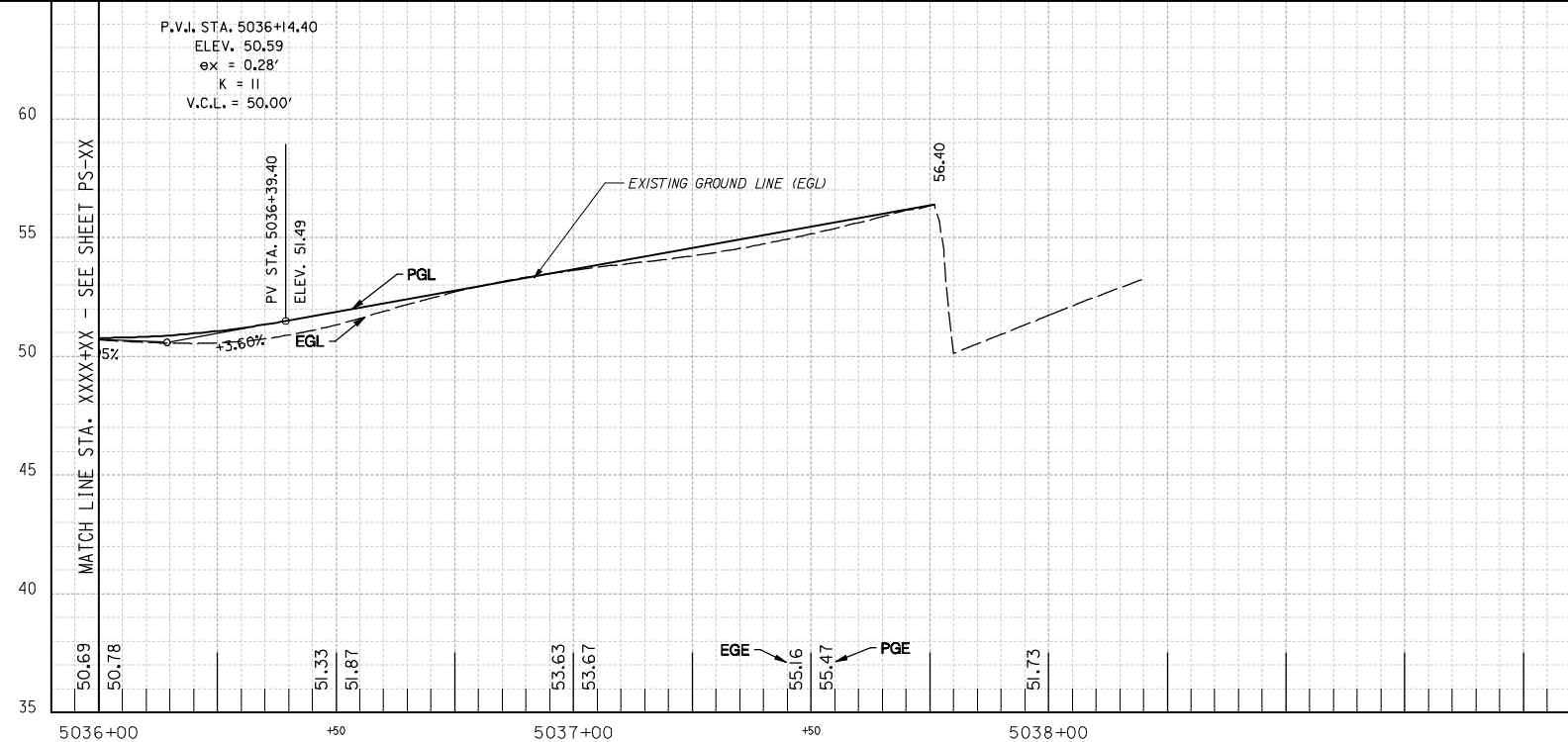
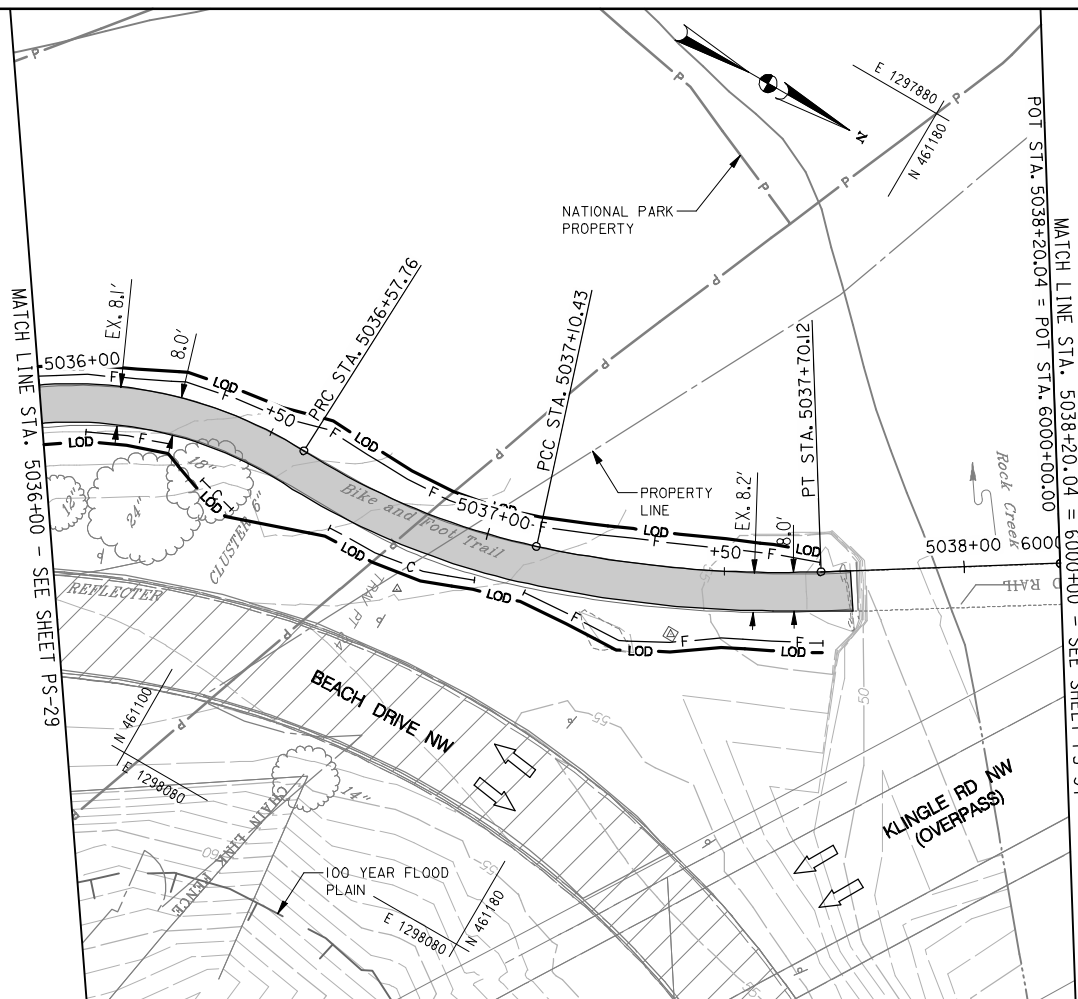
D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013	SCALE: H: 1"=20'; V: 1"=4'	PS-29
PLAN AND PROFILE SHEET		DIVISION CHIEF _____
		DATE _____
		FILE _____
		SHEET 089 OF 124

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		030	124



PAVEMENT LEGEND

	PR. ASPHALT PAVEMENT
	PR. CONCRETE SIDEWALK
	WORK PROPOSED BY OTHERS
	PAVEMENT REMOVAL

NOT FOR CONSTRUCTION

VERTICAL SCALE: 1"=4'
HORIZONTAL SCALE: 1"=20'



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

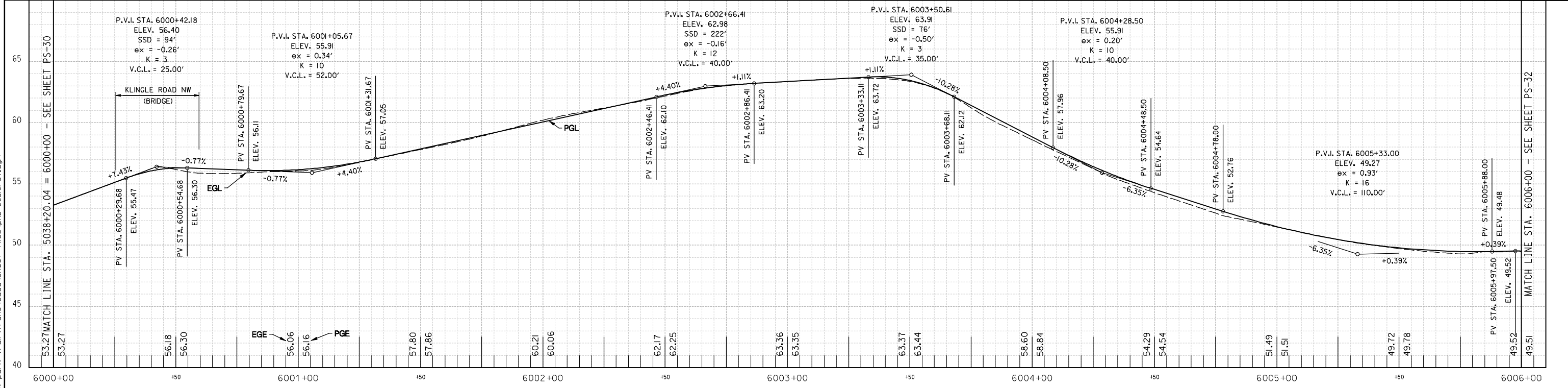
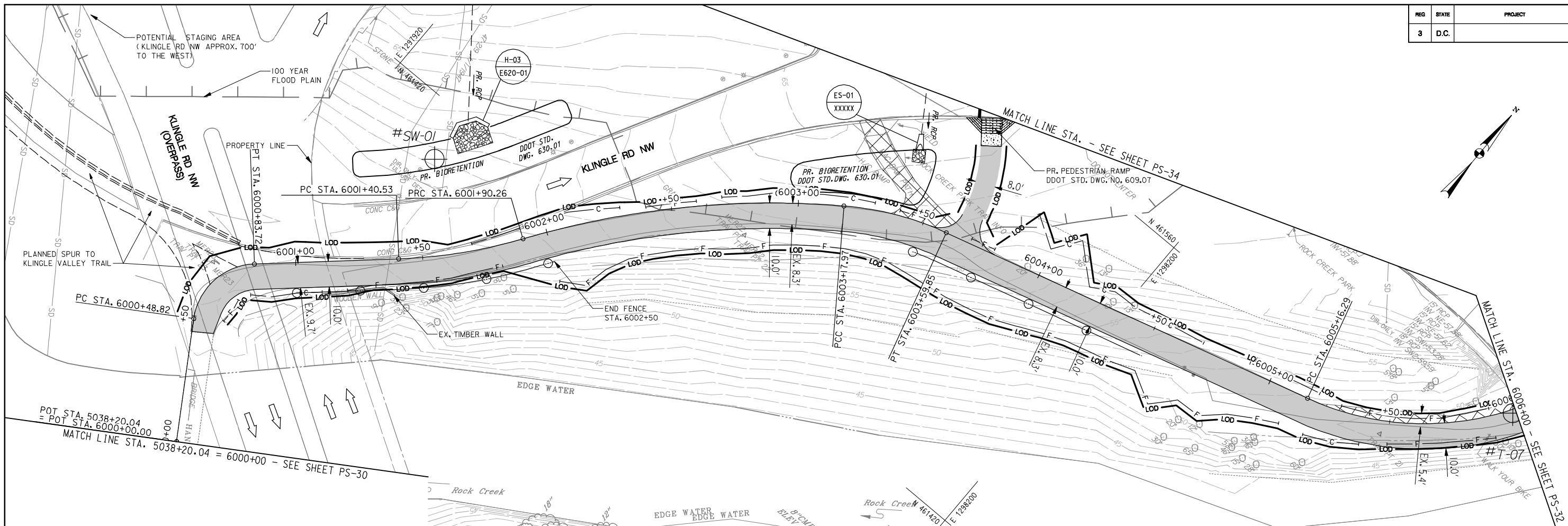
D.C. DEPARTMENT OF TRANSPORTATION
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PROJECT MANAGEMENT DIVISION

**ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL**

PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

DATE: 09-13-2013	SCALE: H: 1"=20'; V: 1"=4'	PS-30
PLAN AND PROFILE SHEET		DIVISION CHIEF
		DATE _____
		FILE _____
		SHEET 030 OF 124

Thursday, September 12, 2013 AT 03:35 PM
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PAVEMENT LEGEND

- PR. ASPHALT PAVEMENT
- PR. CONCRETE SIDEWALK
- WORK PROPOSED BY OTHERS
- PAVEMENT REMOVAL

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VERTICAL SCALE: 1"=4'
HORIZONTAL SCALE: 1"=20'

NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013 SCALE: H: 1"=20'; V: 1"=4' PS-31

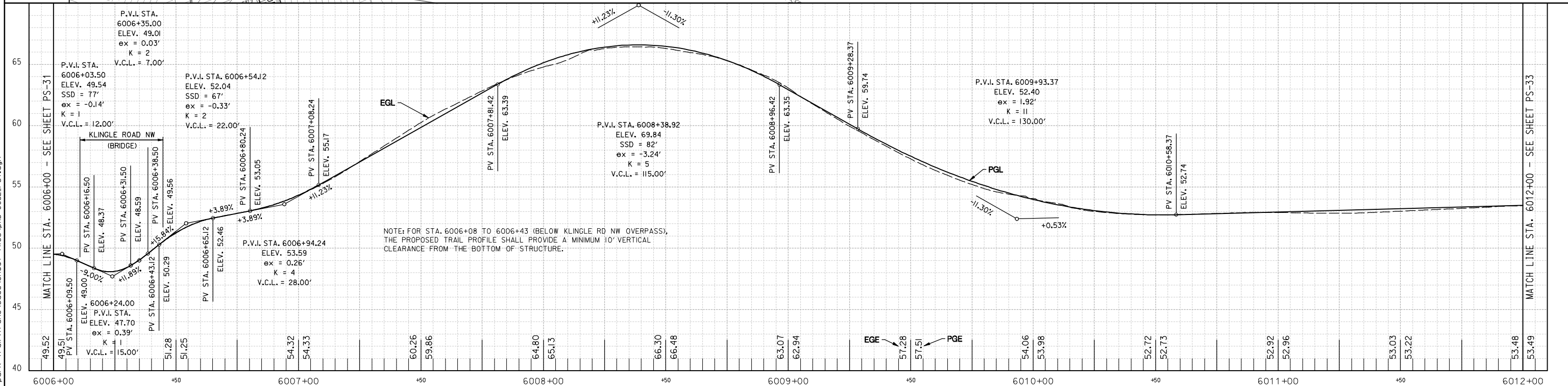
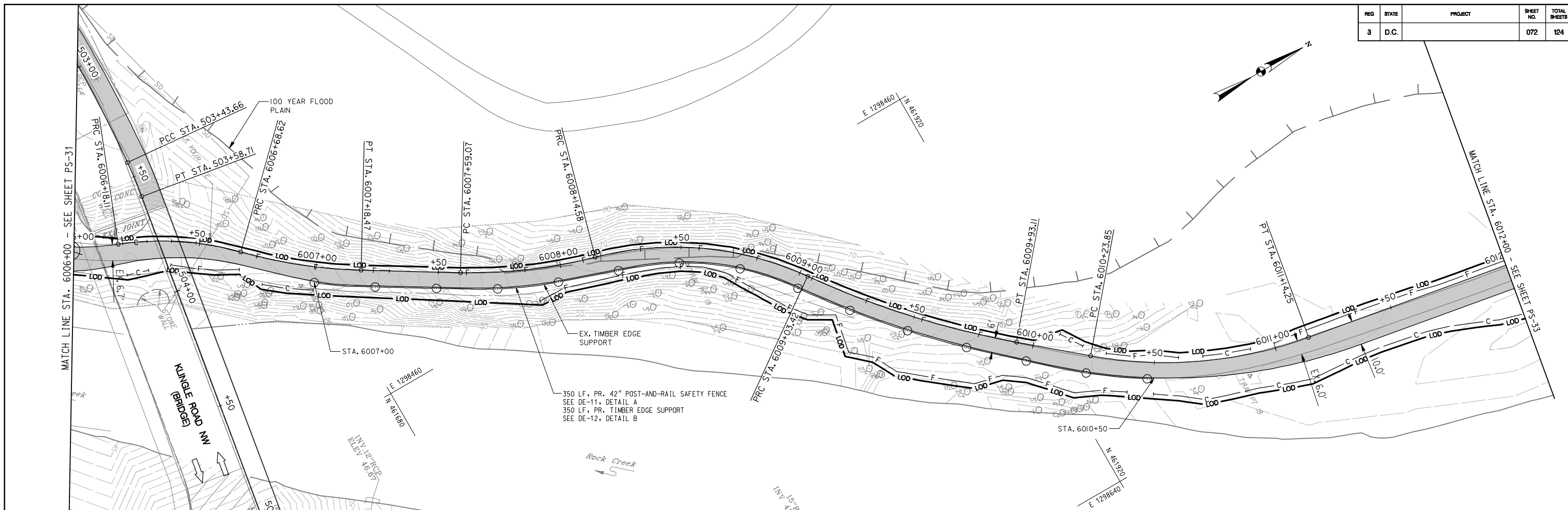
PLAN AND PROFILE SHEET

DIVISION CHIEF _____

DATE _____
 FILE _____
 SHEET 071 OF 124

Thursday, September 12, 2013 AT 03:35 PM
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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		072	124



Thursday, September 12, 2013 AT 03:35 PM
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PAVEMENT LEGEND

	PR ASPHALT PAVEMENT
	PR CONCRETE SIDEWALK
	WORK PROPOSED BY OTHERS
	PAVEMENT REMOVAL

NOT FOR CONSTRUCTION

VERTICAL SCALE: 1"=4'
 HORIZONTAL SCALE: 1"=20'



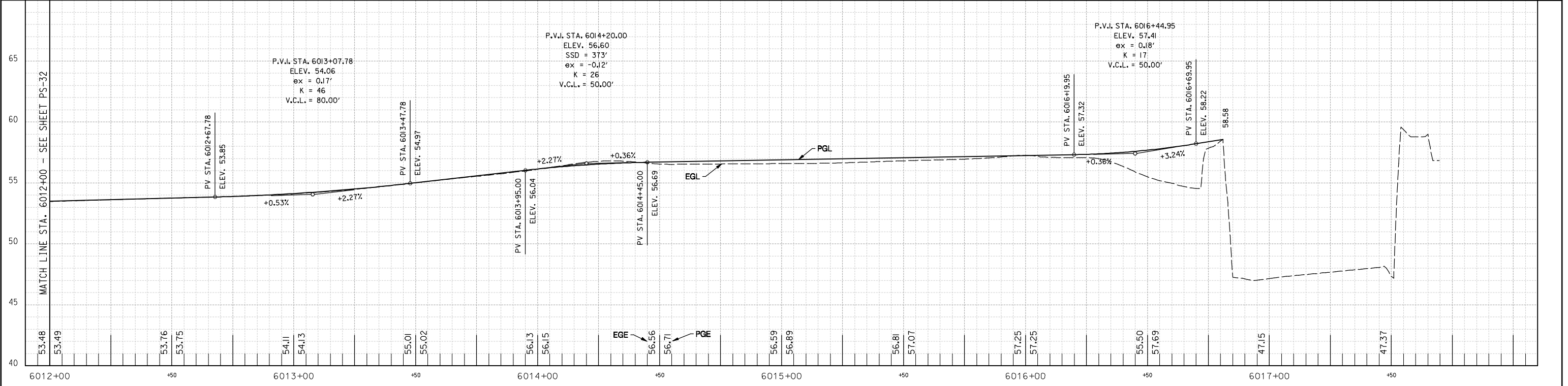
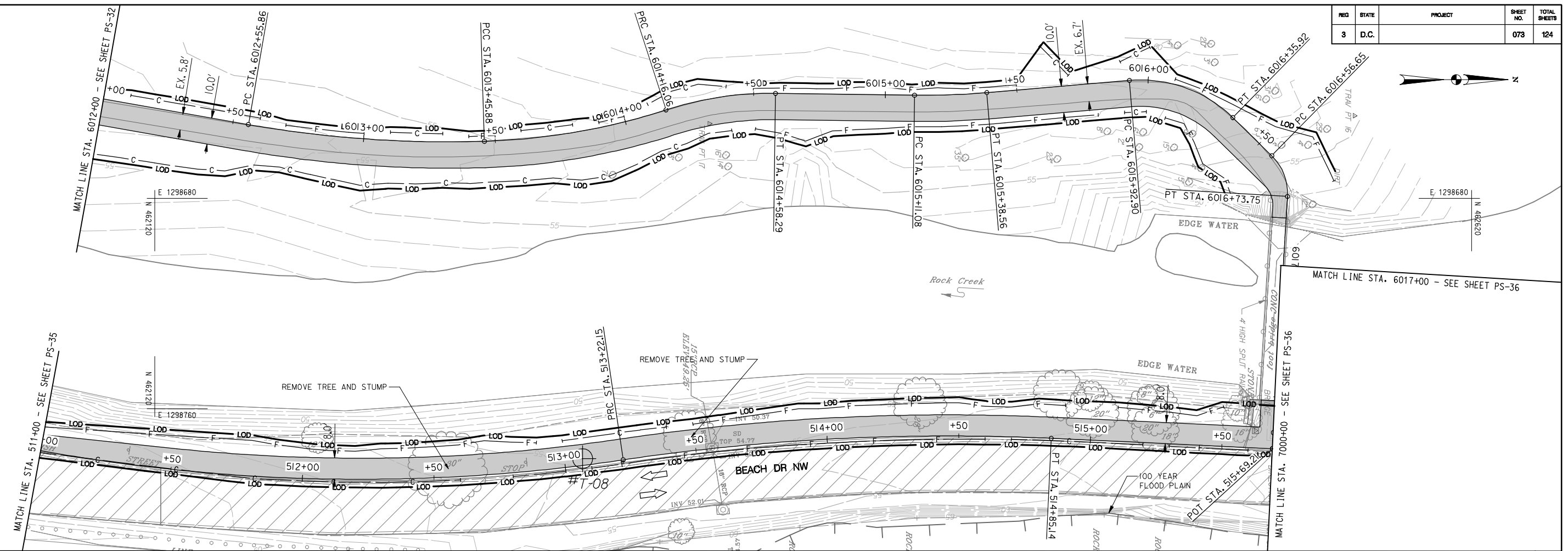
NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

**ROCK CREEK PARK
 MULTI-USE TRAIL REHABILITATION
 30% DESIGN SUBMITTAL**

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013	SCALE: H: 1"=20'; V: 1"=4'	PS-32
PLAN AND PROFILE SHEET		DIVISION CHIEF
		DATE _____
		FILE _____
		SHEET 072 OF 124



Thursday, September 12, 2013 AT 03:35 PM
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PAVEMENT LEGEND

	PR. ASPHALT PAVEMENT
	PR. CONCRETE SIDEWALK
	WORK PROPOSED BY OTHERS
	PAVEMENT REMOVAL

NOT FOR CONSTRUCTION

VERTICAL SCALE: 1" = 4'
 HORIZONTAL SCALE: 1" = 20'



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION
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 PROJECT MANAGEMENT DIVISION

**ROCK CREEK PARK
 MULTI-USE TRAIL REHABILITATION
 30% DESIGN SUBMITTAL**

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013 SCALE: H: 1"=20'; V: 1"=4' PS-33

PLAN AND PROFILE SHEET

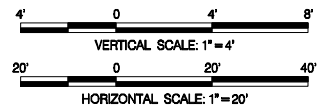
DIVISION CHIEF _____
 DATE _____
 FILE _____
 SHEET 073 OF 124

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		074	124

Thursday, September 12, 2013 AT 03:35 PM
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ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

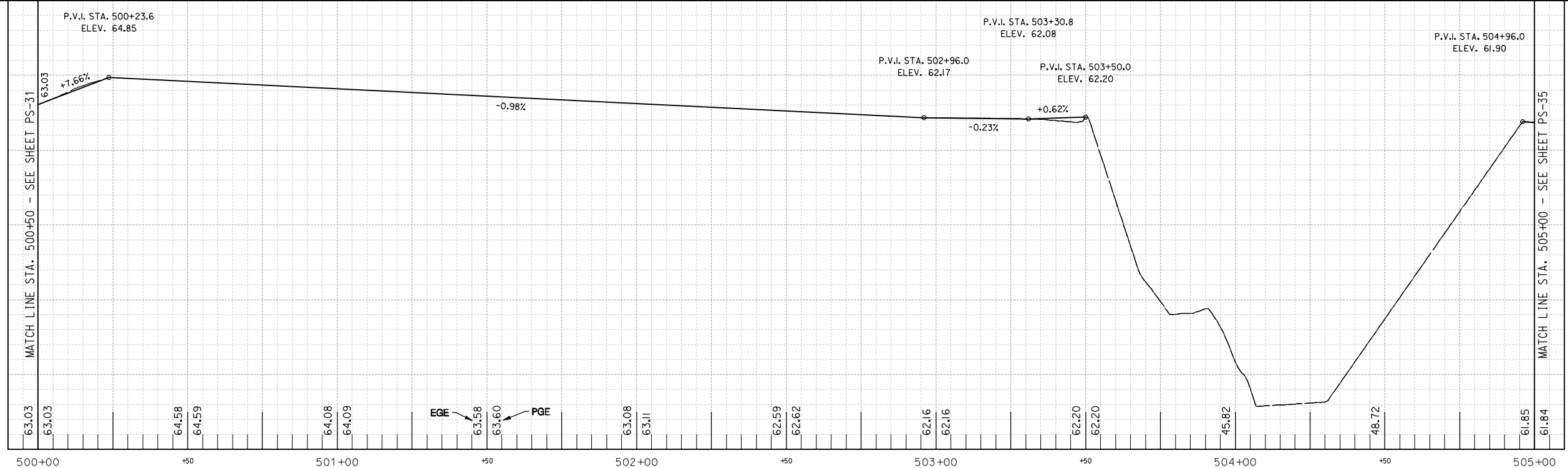
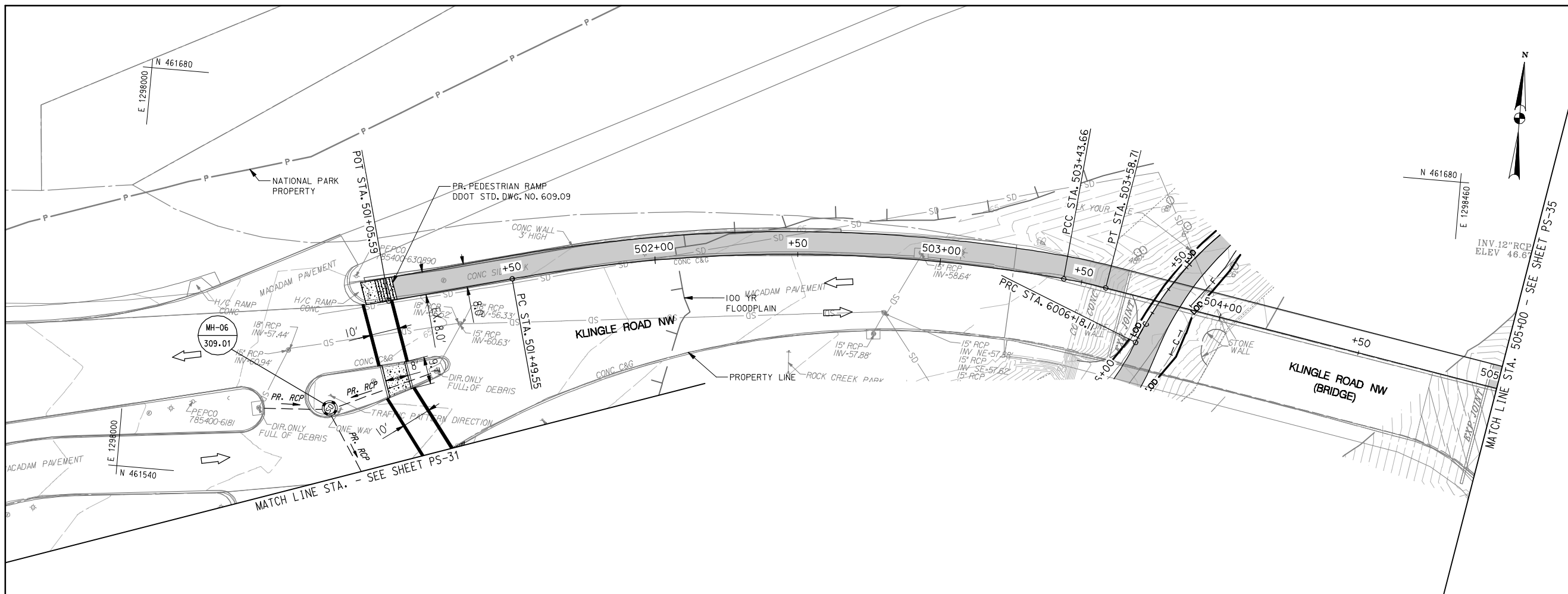
PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013 SCALE: H: 1"=20'; V: 1"=4' PS-33A

PLAN AND PROFILE SHEET

DIVISION CHIEF _____
 DATE _____
 FILE _____
 SHEET 074 OF 124

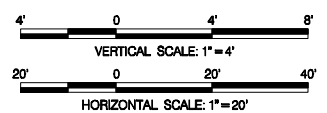
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		075	124



PAVEMENT LEGEND

- PR ASPHALT PAVEMENT
- PR CONCRETE SIDEWALK
- WORK PROPOSED BY OTHERS
- PAVEMENT REMOVAL

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PROJECT MANAGEMENT DIVISION

**ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL**

PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

DATE: 09-13-2013

SCALE: H: 1"=20'; V: 1"=4'

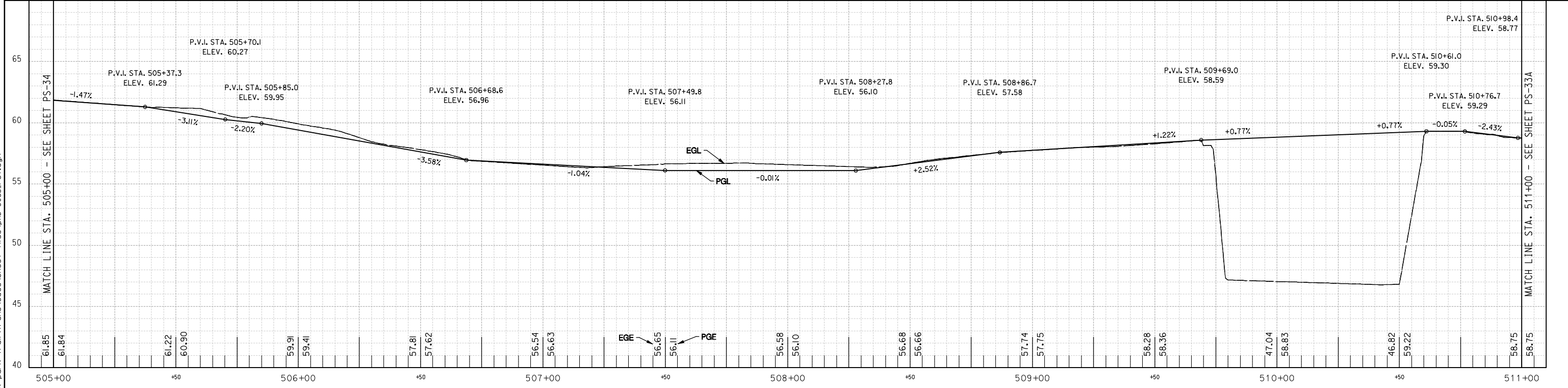
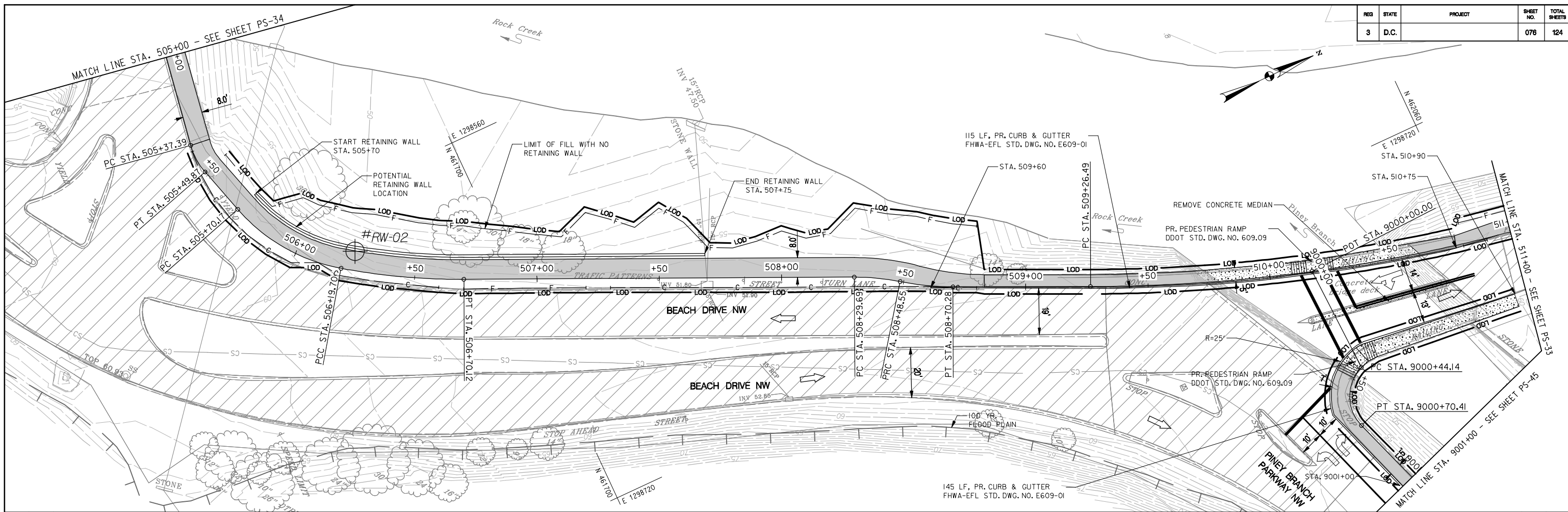
PS-34

DIVISION CHIEF

PLAN AND PROFILE SHEET

DATE _____
FILE _____
SHEET 075 OF 124

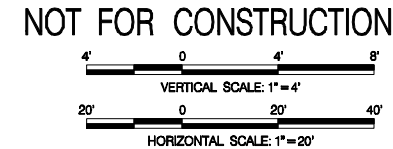
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		076	124



Thursday, September 12, 2013 AT 03:35 PM
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PAVEMENT LEGEND

	PR. ASPHALT PAVEMENT
	PR. CONCRETE SIDEWALK
	WORK PROPOSED BY OTHERS
	PAVEMENT REMOVAL



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

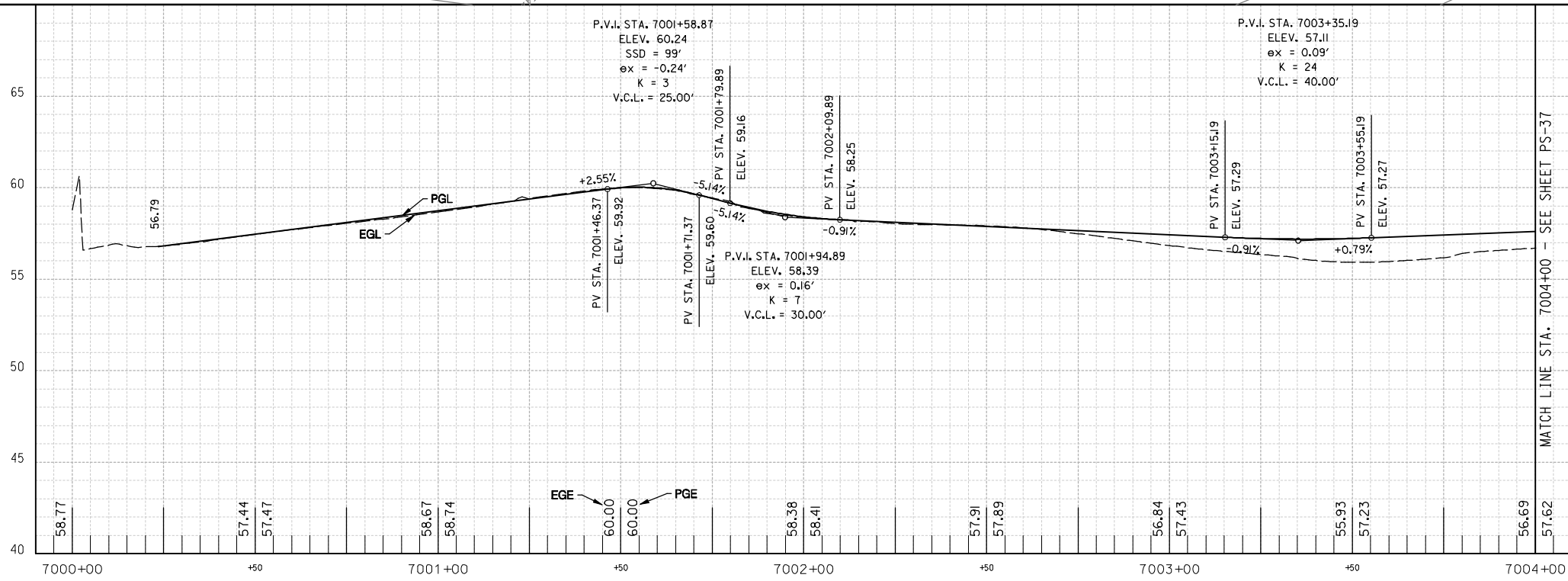
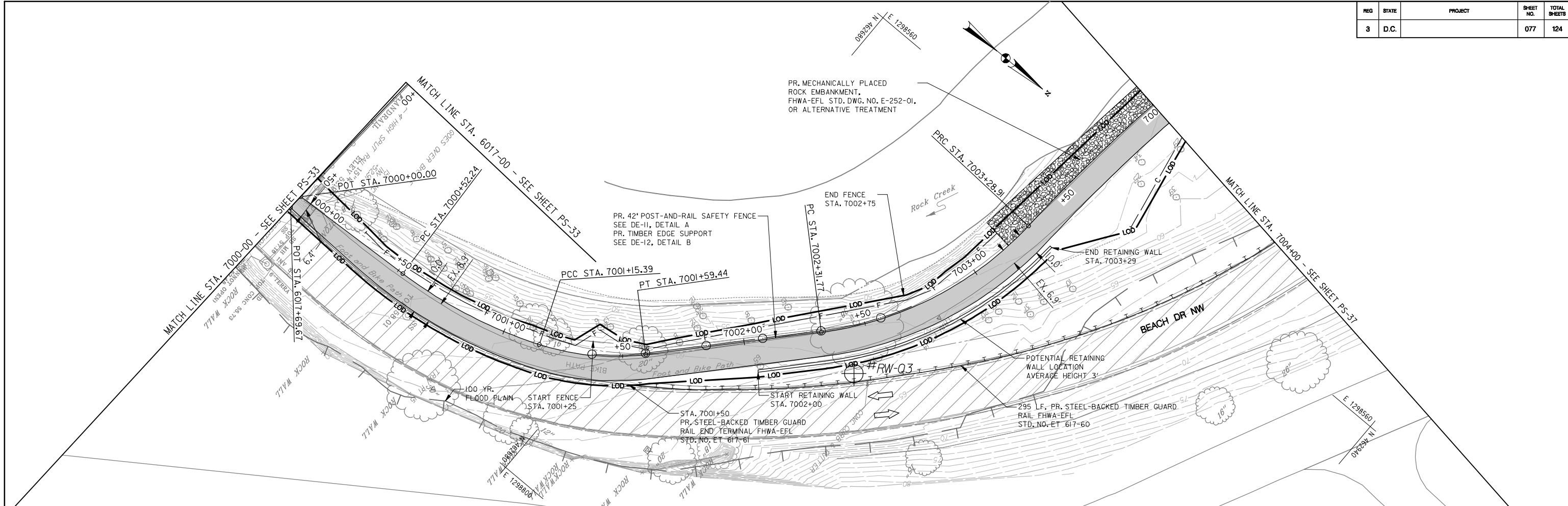
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 PROJECT MANAGEMENT DIVISION

**ROCK CREEK PARK
 MULTI-USE TRAIL REHABILITATION
 30% DESIGN SUBMITTAL**

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013	SCALE: H: 1"=20'; V: 1"=4'	PS-35
PLAN AND PROFILE SHEET		DIVISION CHIEF
		DATE _____
		FILE _____
		SHEET 076 OF 124

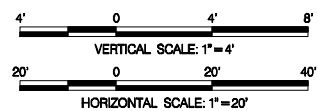
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		077	124



PAVEMENT LEGEND

- PR. ASPHALT PAVEMENT
- PR. CONCRETE SIDEWALK
- WORK PROPOSED BY OTHERS
- PAVEMENT REMOVAL

NOT FOR CONSTRUCTION



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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013

SCALE: H: 1" = 20'; V: 1" = 4'

PS-36

PLAN AND PROFILE SHEET

DIVISION CHIEF

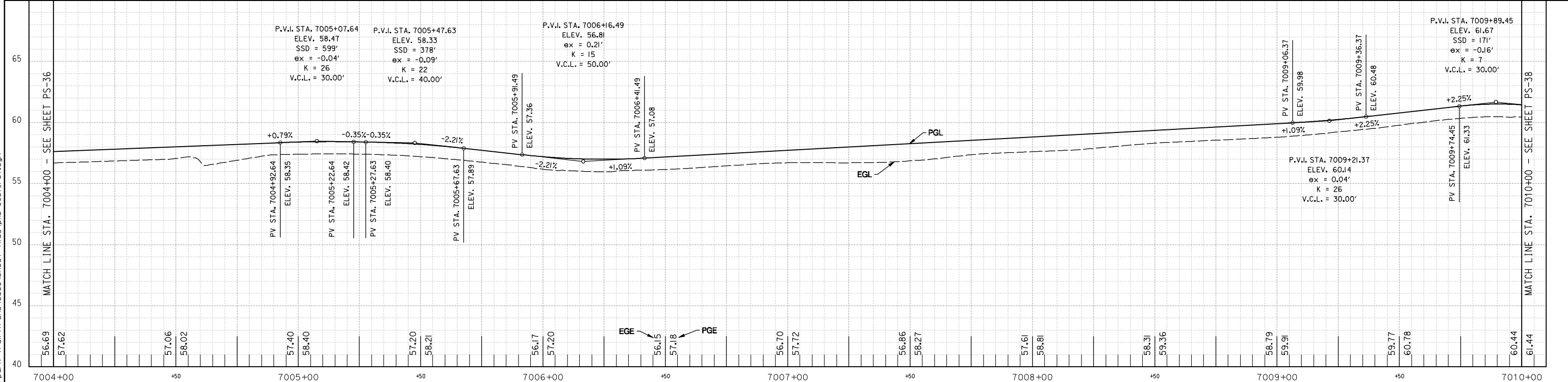
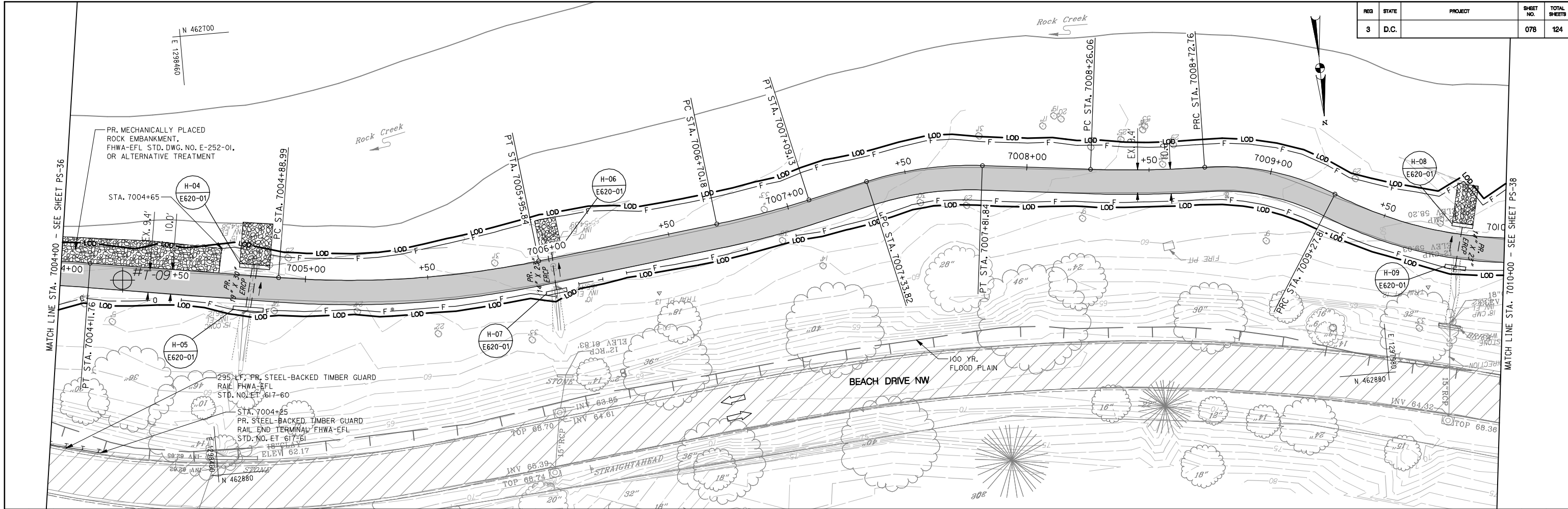
DATE _____

FILE _____

SHEET 077 OF 124

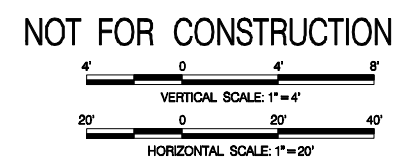
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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		078	124



PAVEMENT LEGEND

- PR. ASPHALT PAVEMENT
- PR. CONCRETE SIDEWALK
- WORK PROPOSED BY OTHERS
- PAVEMENT REMOVAL



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

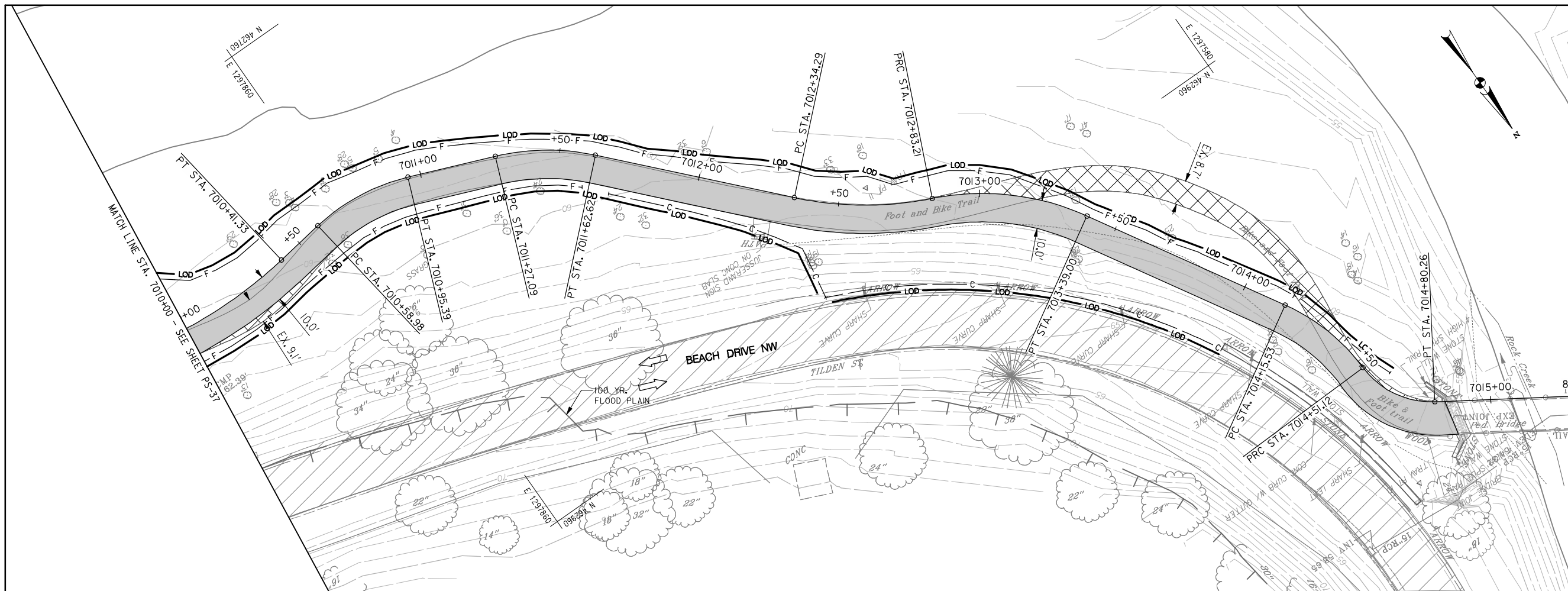
**ROCK CREEK PARK
 MULTI-USE TRAIL REHABILITATION
 30% DESIGN SUBMITTAL**

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

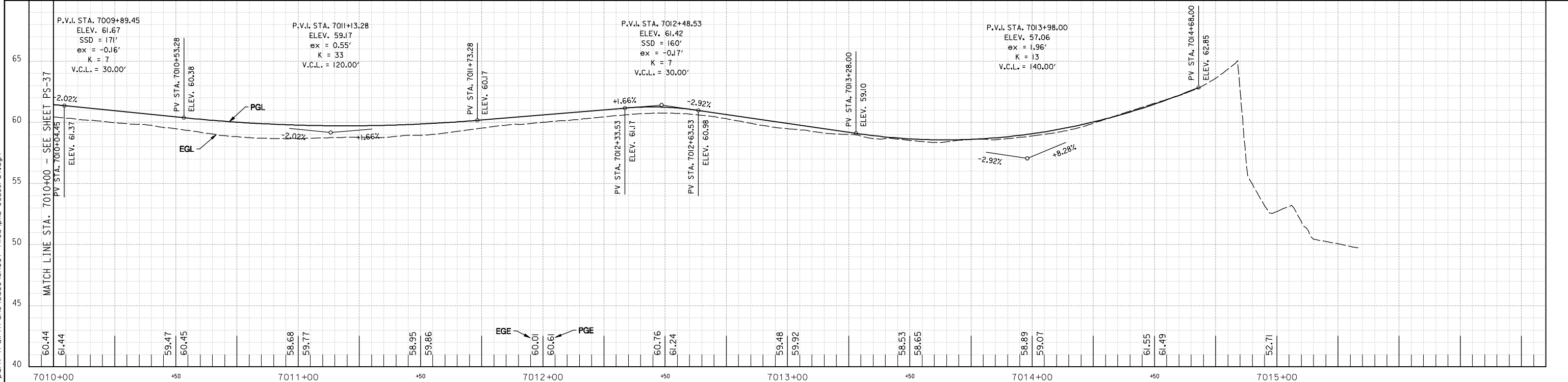
DATE: 09-13-2013	SCALE: H: 1"=20'; V: 1"=4'	PS-37
PLAN AND PROFILE SHEET		DIVISION CHIEF
DATE _____		FILE _____
SHEET 078 OF 124		

Thursday, September 12, 2013 AT 03:35 PM
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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		079	124



MATCH LINE STA. 7015+40.10 = 8000+00 - SEE SHEET PS-39
 00+00+0008 V.I.S. 10'P



PAVEMENT LEGEND

	PR ASPHALT PAVEMENT
	PR CONCRETE SIDEWALK
	WORK PROPOSED BY OTHERS
	PAVEMENT REMOVAL

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VERTICAL SCALE: 1"=4'
 HORIZONTAL SCALE: 1"=20'



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

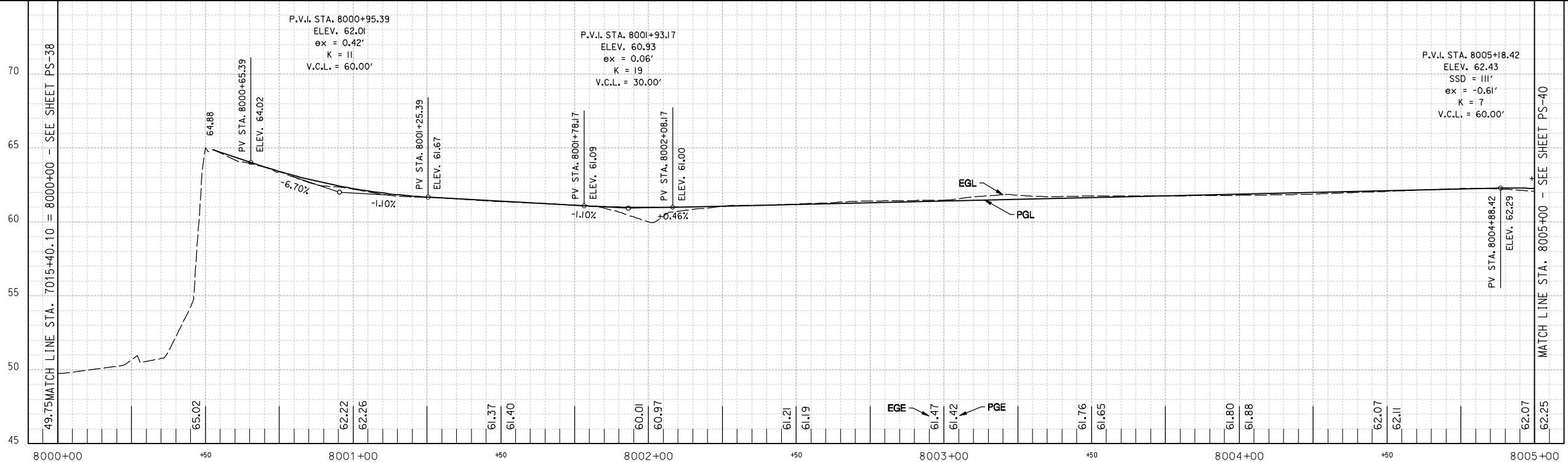
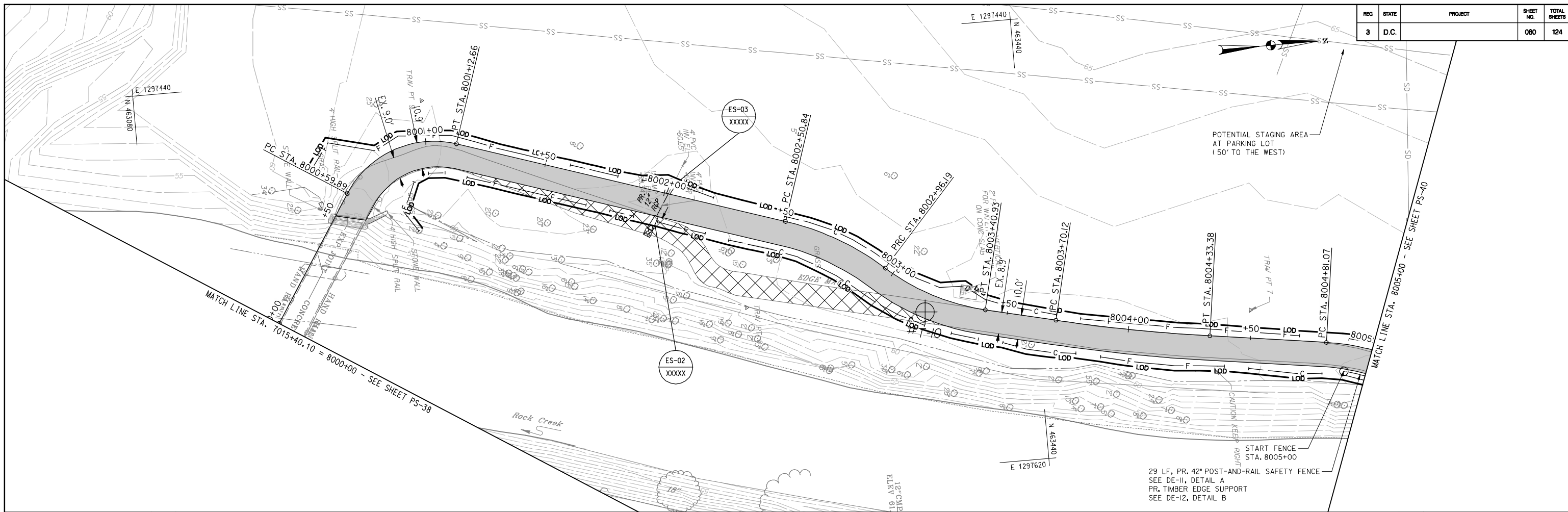
D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

**ROCK CREEK PARK
 MULTI-USE TRAIL REHABILITATION
 30% DESIGN SUBMITTAL**

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013	SCALE: H: 1"=20'; V: 1"=4'	PS-38
PLAN AND PROFILE SHEET		DIVISION CHIEF
		DATE _____
		FILE _____
		SHEET 079 OF 124

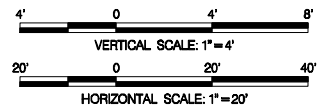
Thursday, September 12, 2013 AT 03:36 PM
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PAVEMENT LEGEND

- PR ASPHALT PAVEMENT
- PR CONCRETE SIDEWALK
- WORK PROPOSED BY OTHERS
- PAVEMENT REMOVAL

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PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013

SCALE: H: 1"=20'; V: 1"=4'

PS-39

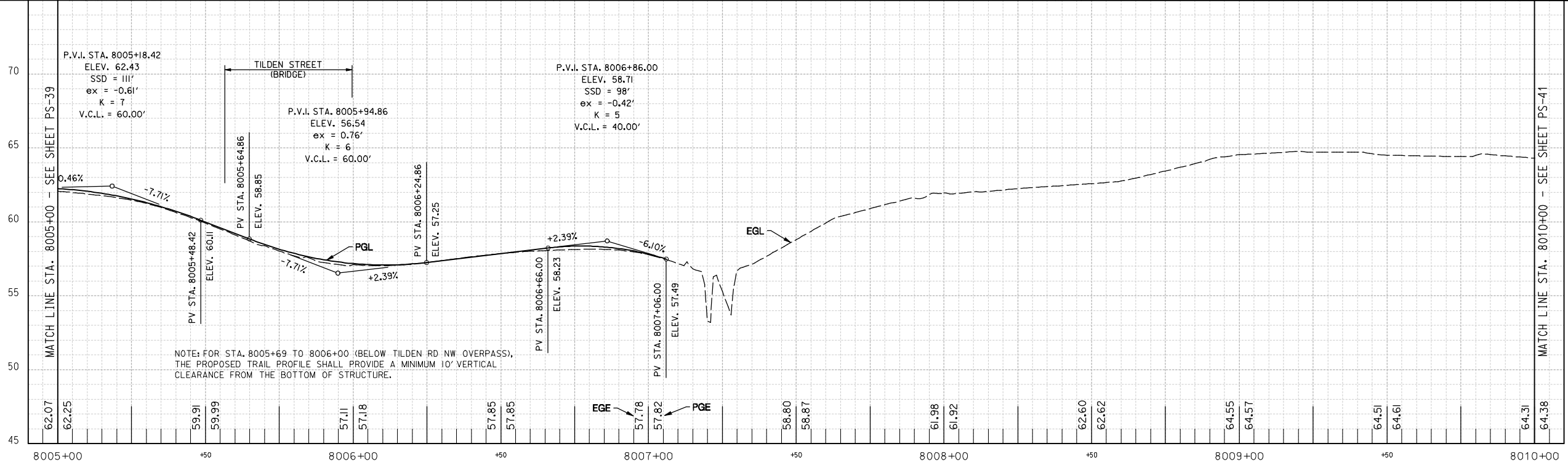
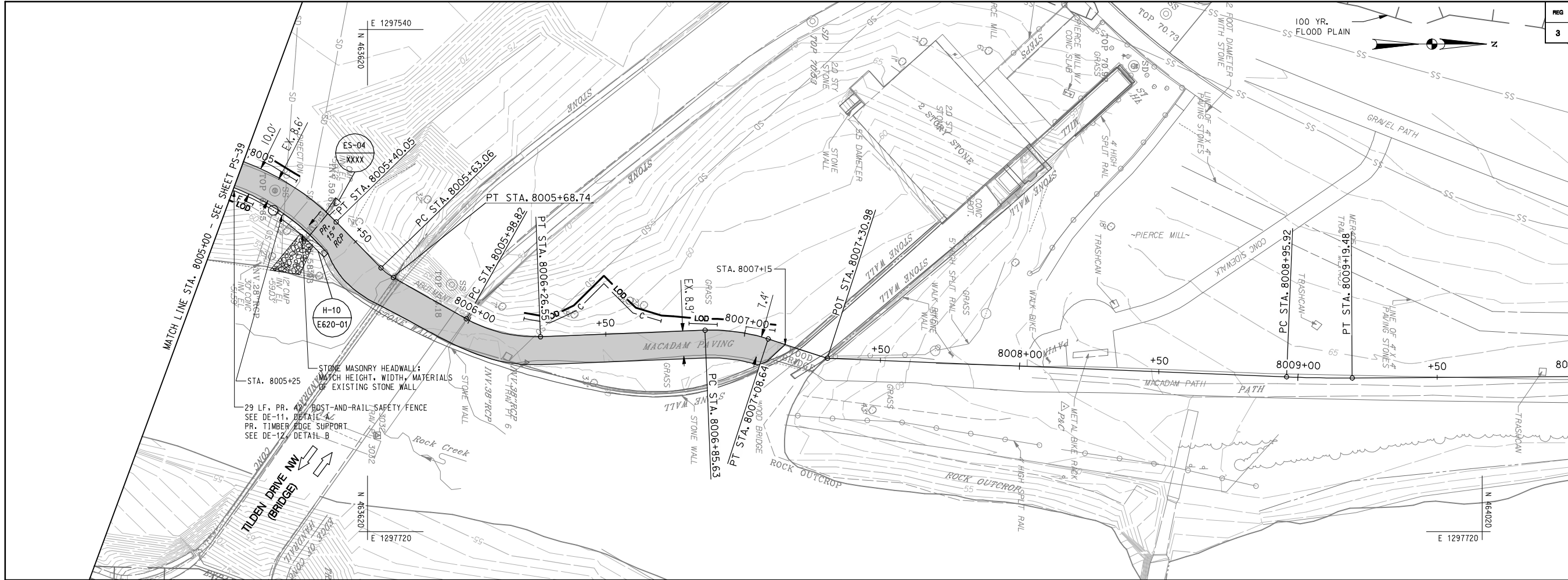
PLAN AND PROFILE SHEET

DIVISION CHIEF

DATE _____

FILE _____

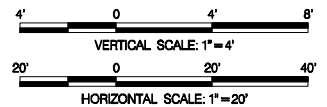
SHEET 080 OF 124



PAVEMENT LEGEND

- PR. ASPHALT PAVEMENT
- PR. CONCRETE SIDEWALK
- WORK PROPOSED BY OTHERS
- PAVEMENT REMOVAL

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ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

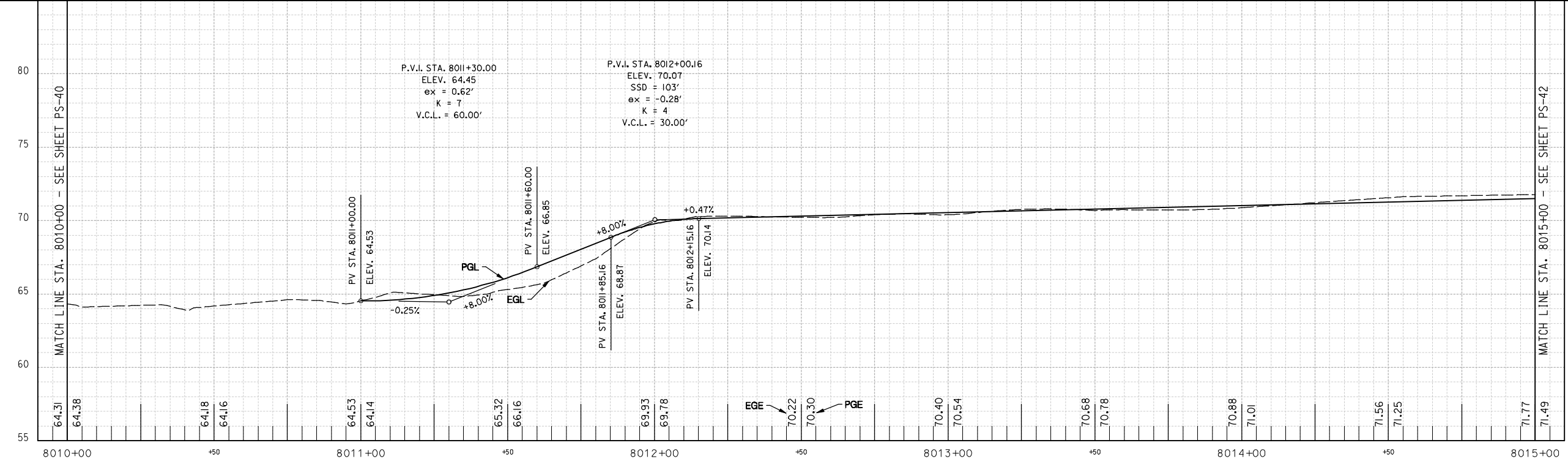
PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

DATE: 09-13-2013 SCALE: H: 1"=20'; V: 1"=4' PS-40

PLAN AND PROFILE SHEET

DIVISION CHIEF _____
DATE _____
FILE _____
SHEET 081 OF 124

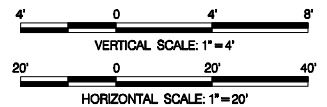
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		082	124



PAVEMENT LEGEND

- PR. ASPHALT PAVEMENT
- PR. CONCRETE SIDEWALK
- WORK PROPOSED BY OTHERS
- PAVEMENT REMOVAL

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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

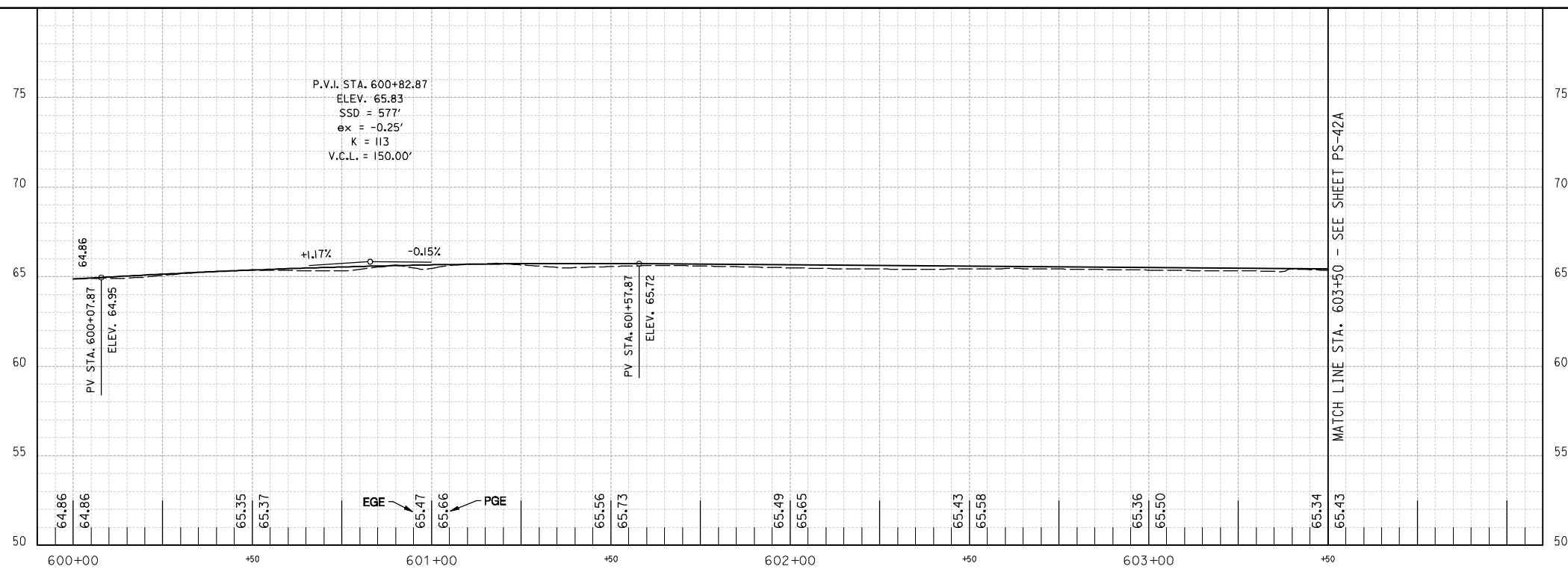
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INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

**ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL**

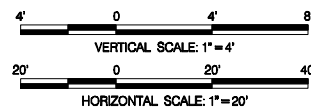
DATE: 09-13-2013	SCALE: H: 1"=20'; V: 1"=4'	PS-41
PLAN AND PROFILE SHEET		DIVISION CHIEF
PROJECT ENG. _____		DATE _____
DESIGNED BY _____		FILE _____
CHECKED BY _____		SHEET 082 OF 124
DRAWN BY _____		
PROJECT MGR. _____		

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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		083	124



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ROCK CREEK PARK
 MULTI-USE TRAIL REHABILITATION
 30% DESIGN SUBMITTAL

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013

SCALE: H: 1"=20'; V: 1"=4'

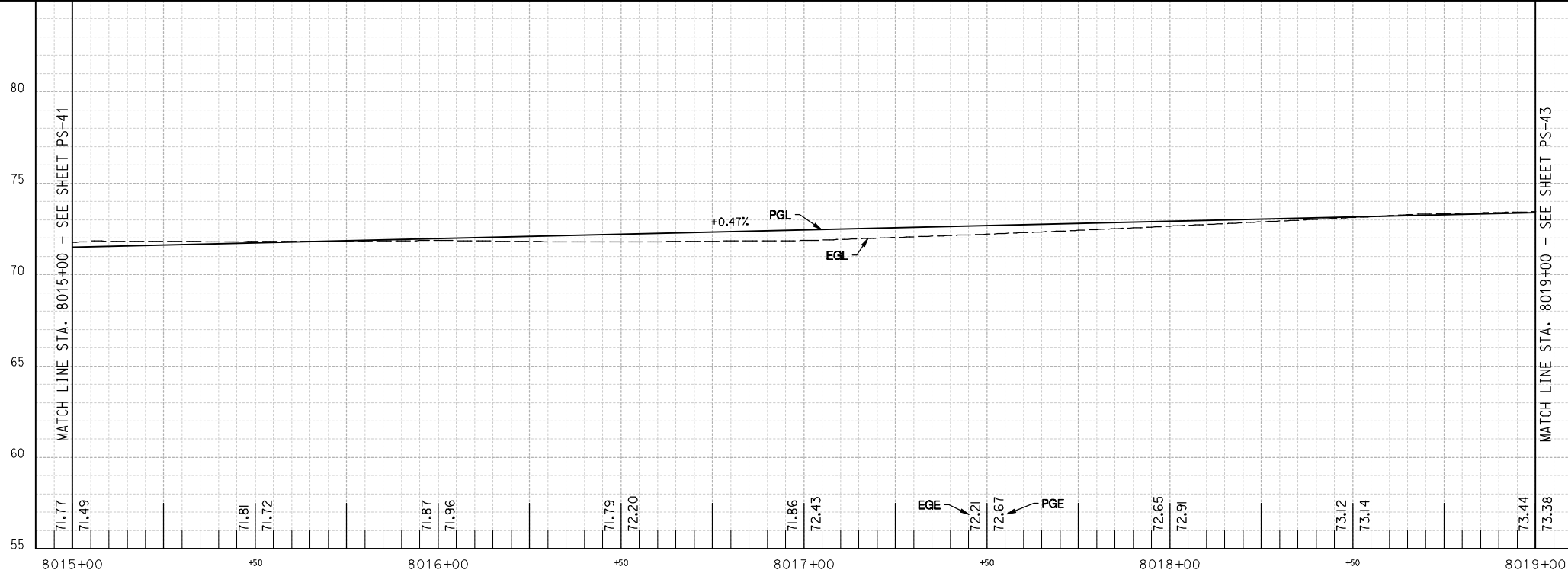
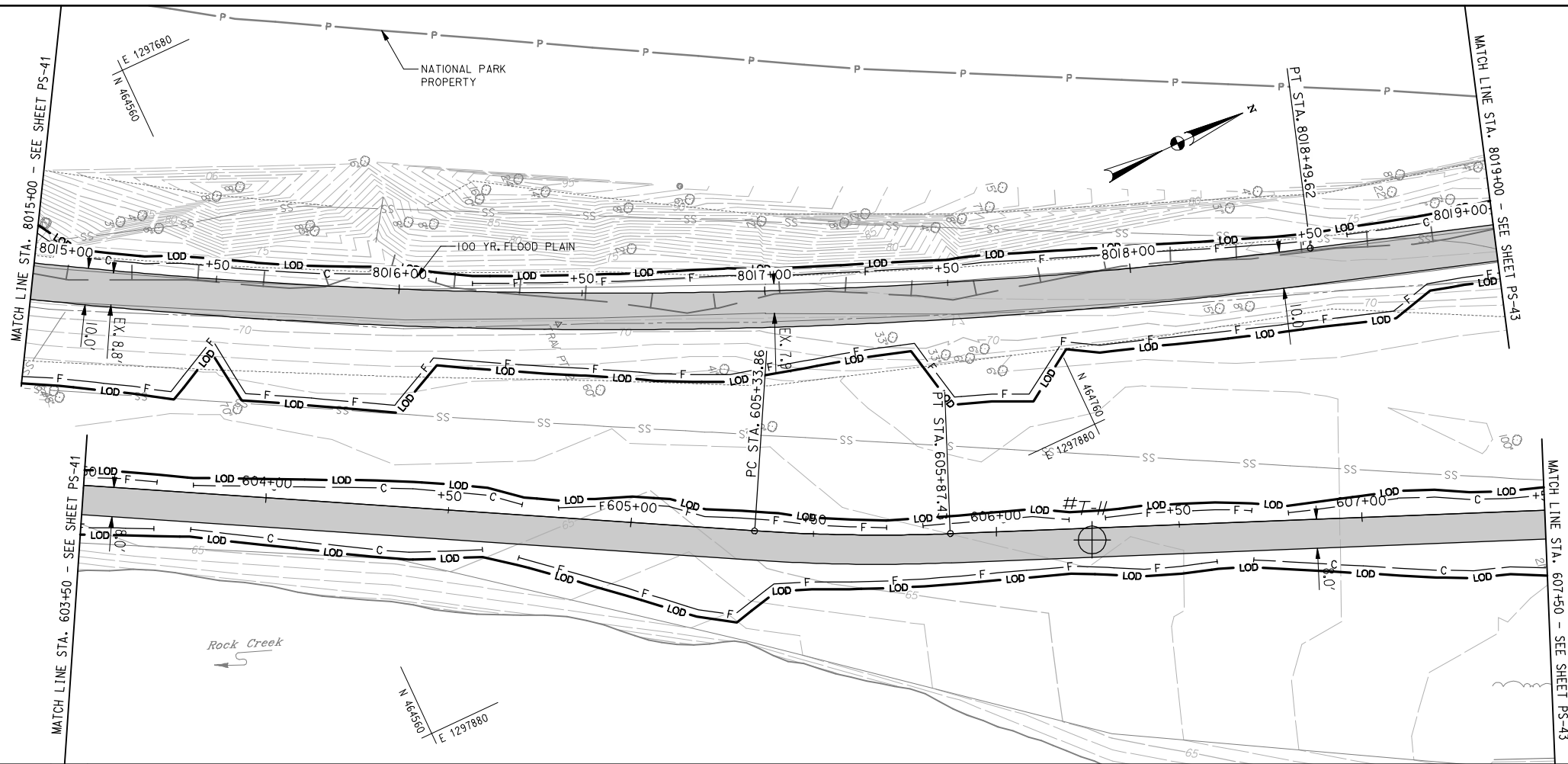
PS-41A

PLAN AND PROFILE SHEET

DIVISION CHIEF

DATE _____
 FILE _____
 SHEET 083 OF 124

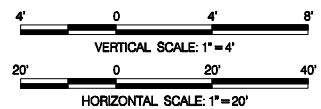
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		084	124



PAVEMENT LEGEND

- PR. ASPHALT PAVEMENT
- PR. CONCRETE SIDEWALK
- WORK PROPOSED BY OTHERS
- PAVEMENT REMOVAL

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**ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL**

PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

DATE: 09-13-2013

SCALE: H: 1"=20'; V: 1"=4'

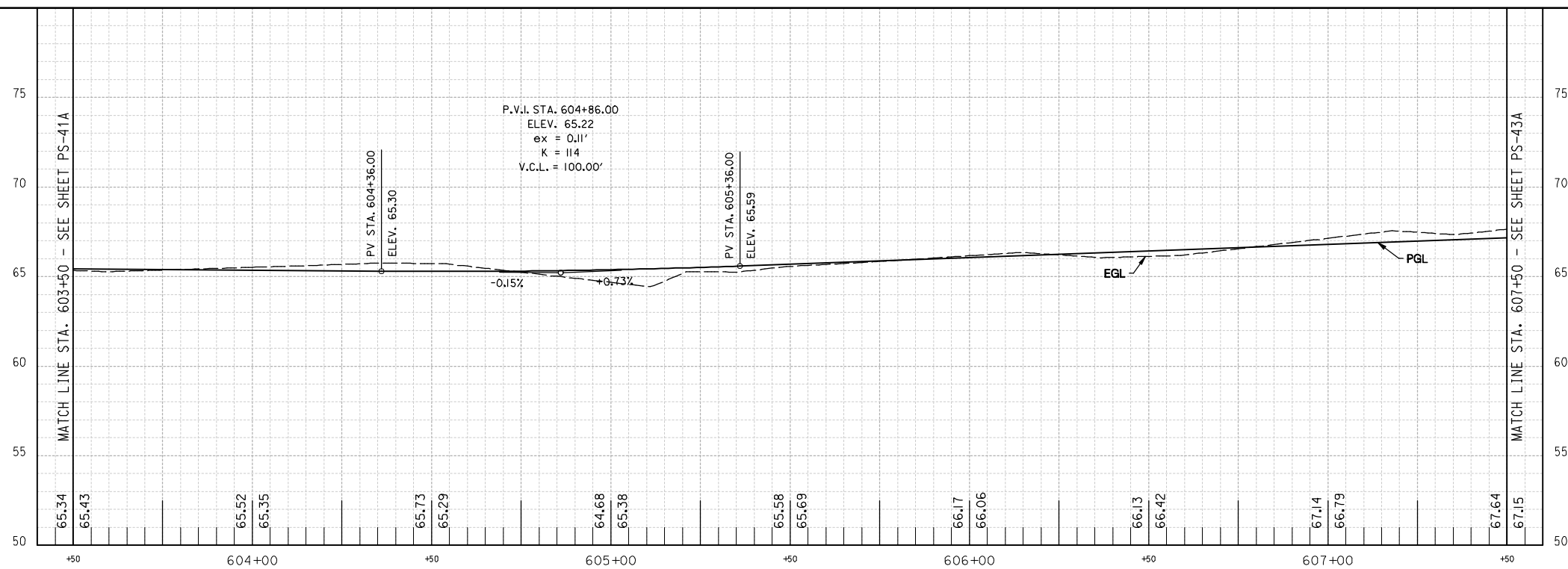
PS-42

DIVISION CHIEF

PLAN AND PROFILE SHEET

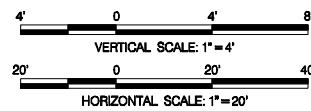
DATE _____
FILE _____
SHEET 084 OF 124

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		085	124



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ROCK CREEK PARK
 MULTI-USE TRAIL REHABILITATION
 30% DESIGN SUBMITTAL

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013

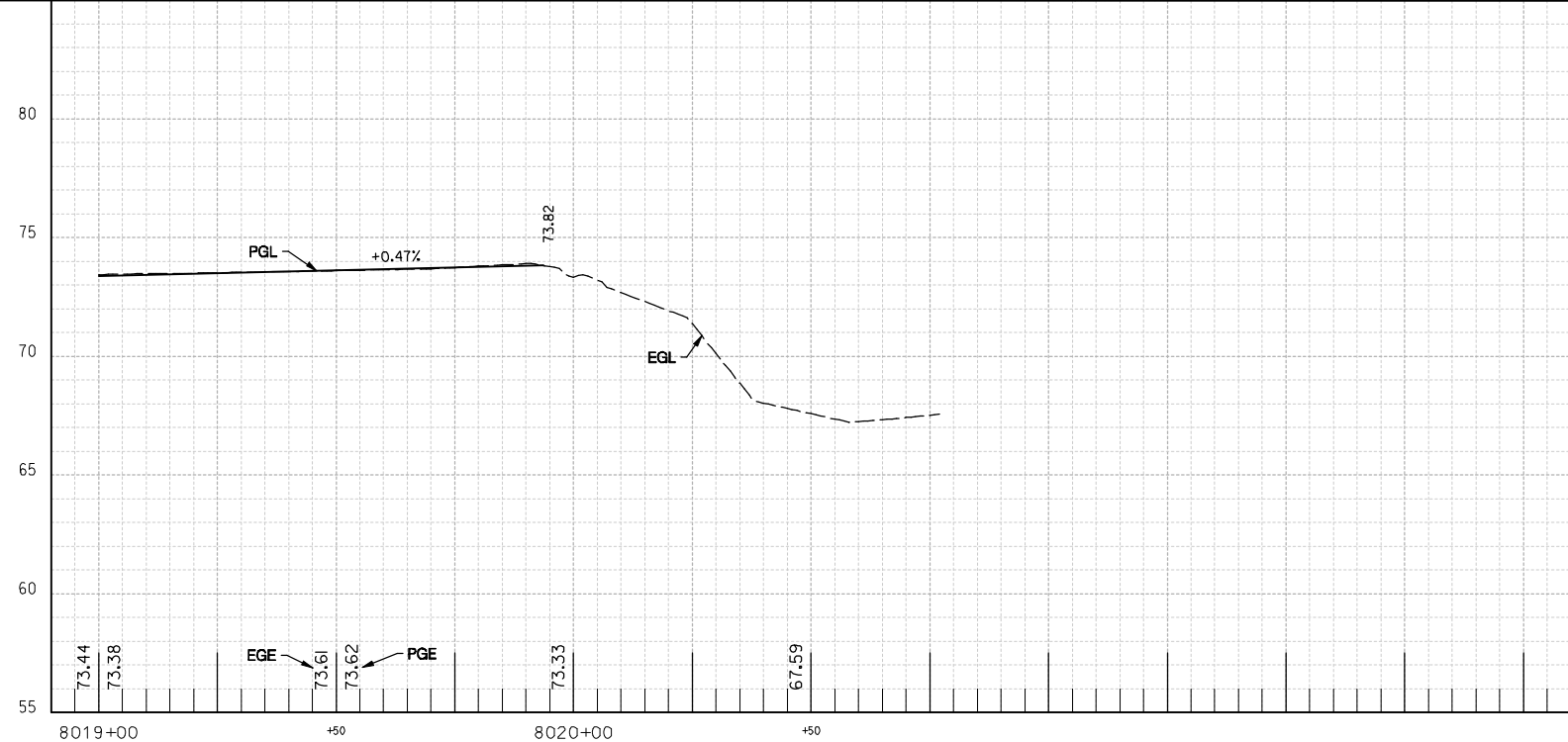
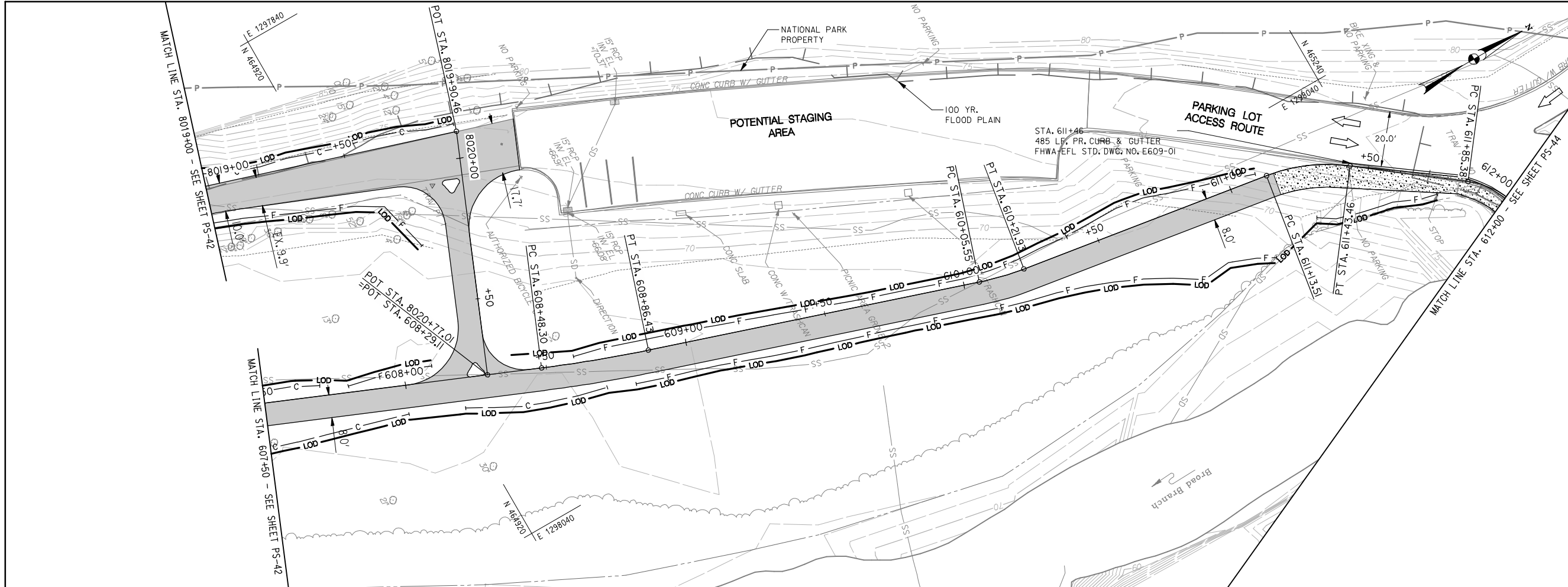
SCALE: H: 1"=20'; V: 1"=4'

PS-42A

PLAN AND PROFILE SHEET

DIVISION CHIEF

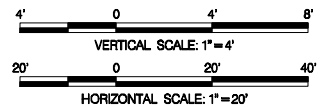
DATE _____
 FILE _____
 SHEET 085 OF 124



PAVEMENT LEGEND

- PR. ASPHALT PAVEMENT
- PR. CONCRETE SIDEWALK
- WORK PROPOSED BY OTHERS
- PAVEMENT REMOVAL

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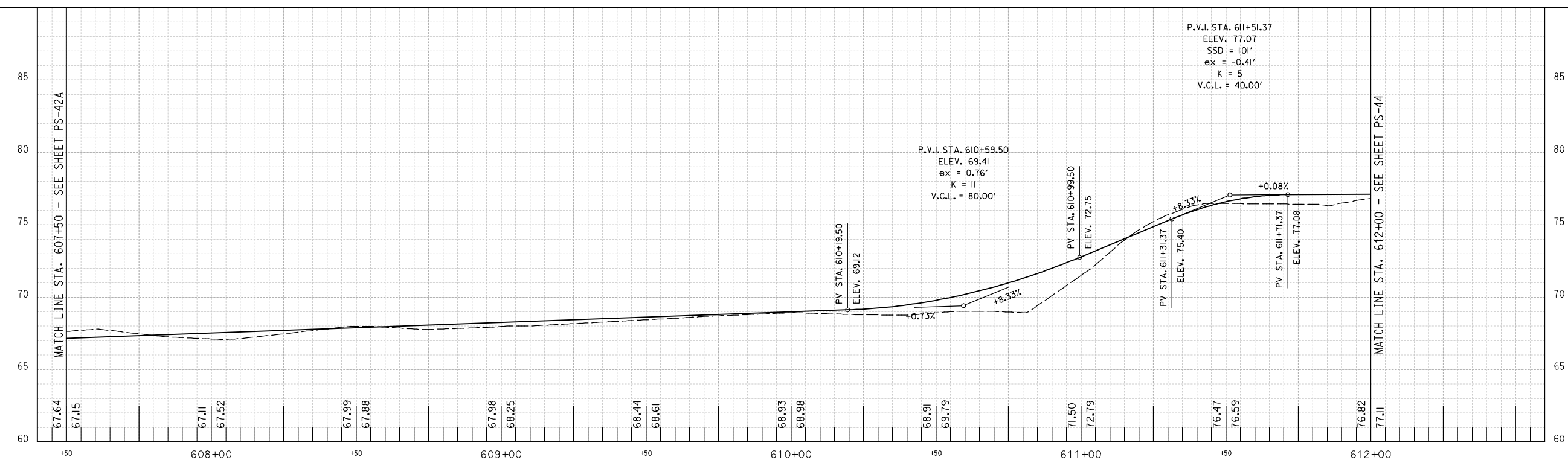
NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

DATE: 09-13-2013	SCALE: H: 1"=20'; V: 1"=4'	PS-43
PLAN AND PROFILE SHEET		DIVISION CHIEF
PROJECT ENG. _____		DATE _____
DESIGNED BY _____		FILE _____
CHECKED BY _____		SHEET 088 OF 124
DRAWN BY _____		
PROJECT MGR. _____		

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		087	124



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4' 0' 4' 8'
 VERTICAL SCALE: 1" = 4'

20' 0' 20' 40'
 HORIZONTAL SCALE: 1" = 20'



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

**ROCK CREEK PARK
 MULTI-USE TRAIL REHABILITATION
 30% DESIGN SUBMITTAL**

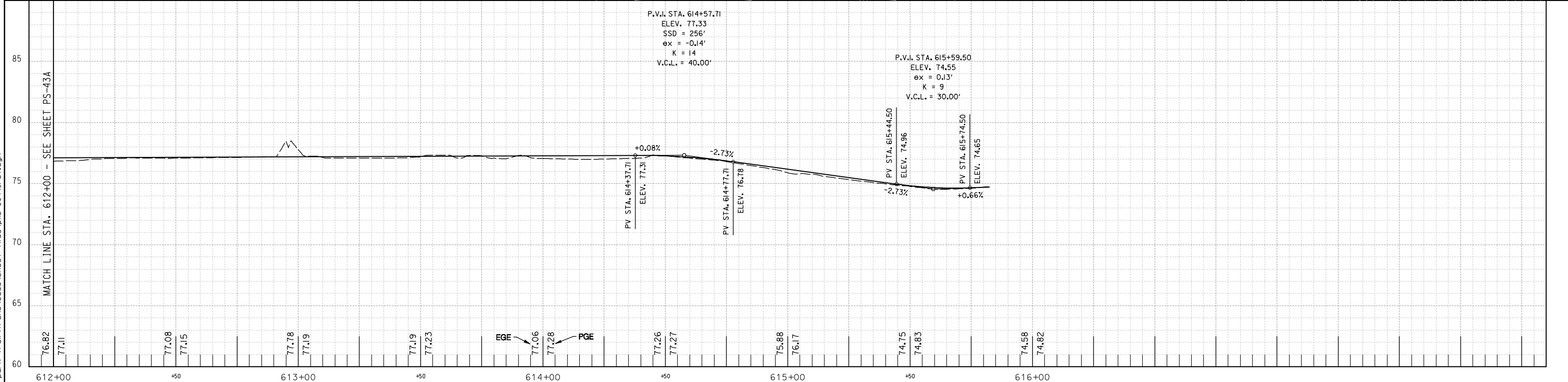
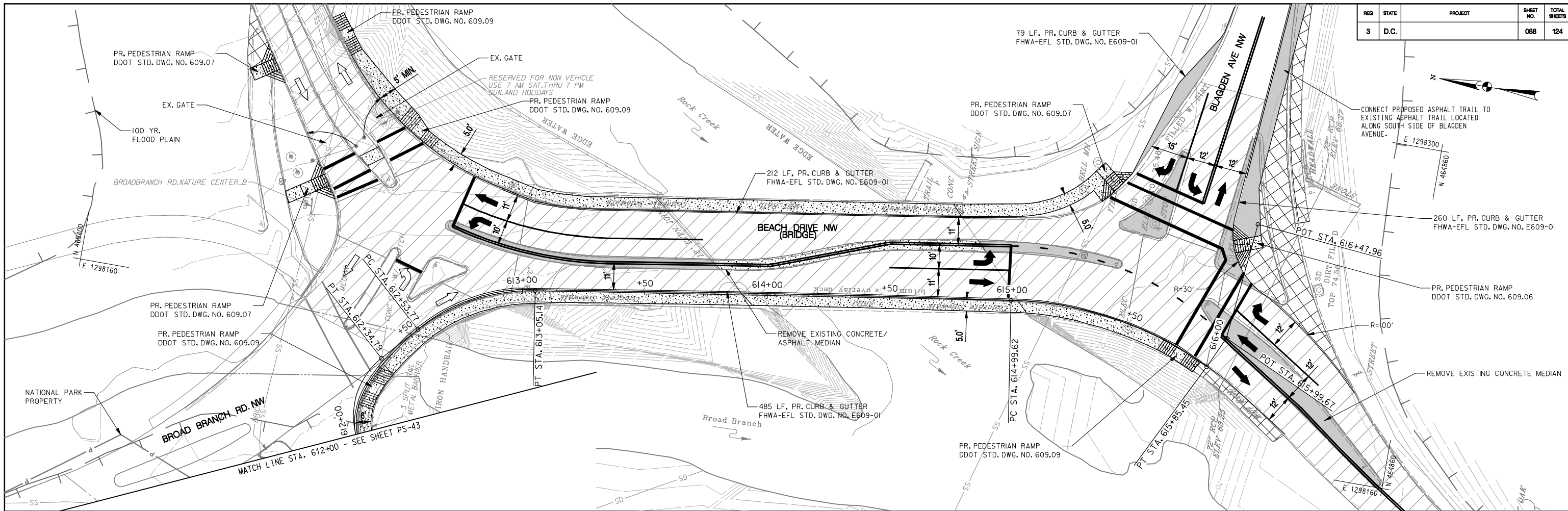
PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013 SCALE: H: 1"=20'; V: 1"=4' PS-43A

PLAN AND PROFILE SHEET

DIVISION CHIEF _____
 DATE _____
 FILE _____
 SHEET 087 OF 124

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		088	124



PAVEMENT LEGEND

- PR. ASPHALT PAVEMENT
- PR. CONCRETE SIDEWALK
- WORK PROPOSED BY OTHERS
- PAVEMENT REMOVAL

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VERTICAL SCALE: 1" = 4'
HORIZONTAL SCALE: 1" = 20'

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ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

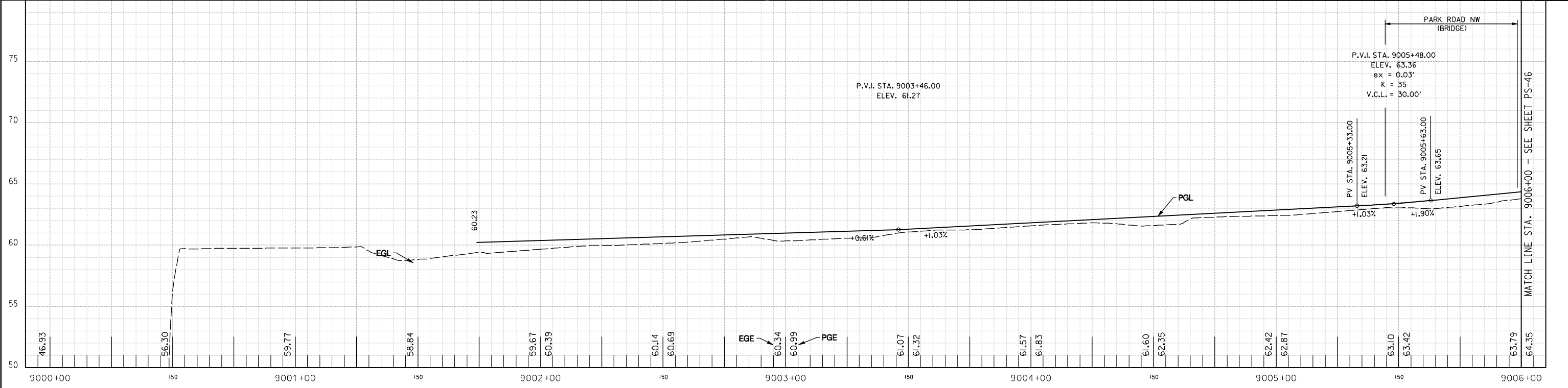
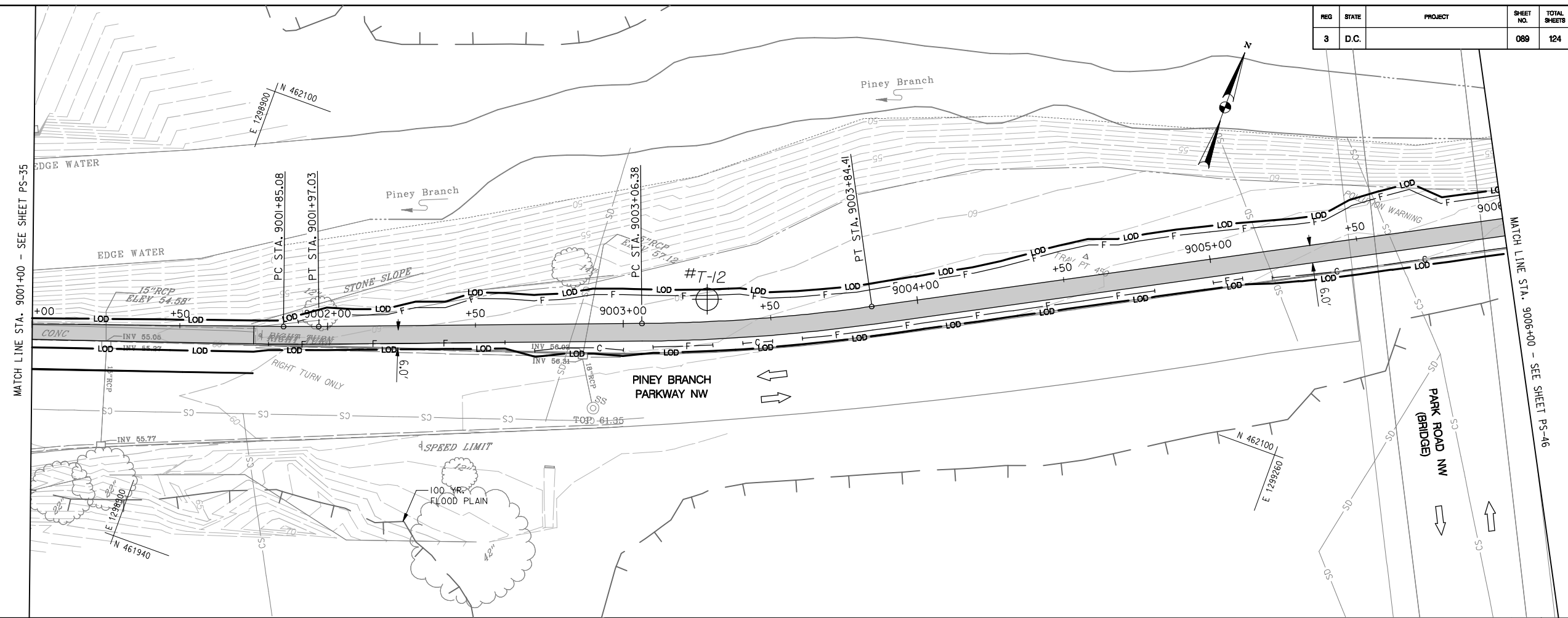
DATE: 09-13-2013 SCALE: H: 1"=20'; V: 1"=4' PS-44

PLAN AND PROFILE SHEET

DIVISION CHIEF _____
DATE _____
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SHEET 088 OF 124

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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		089	124



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PAVEMENT LEGEND

	PR. ASPHALT PAVEMENT
	PR. CONCRETE SIDEWALK
	WORK PROPOSED BY OTHERS
	PAVEMENT REMOVAL

NOT FOR CONSTRUCTION

VERTICAL SCALE: 1" = 4'
 HORIZONTAL SCALE: 1" = 20'



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

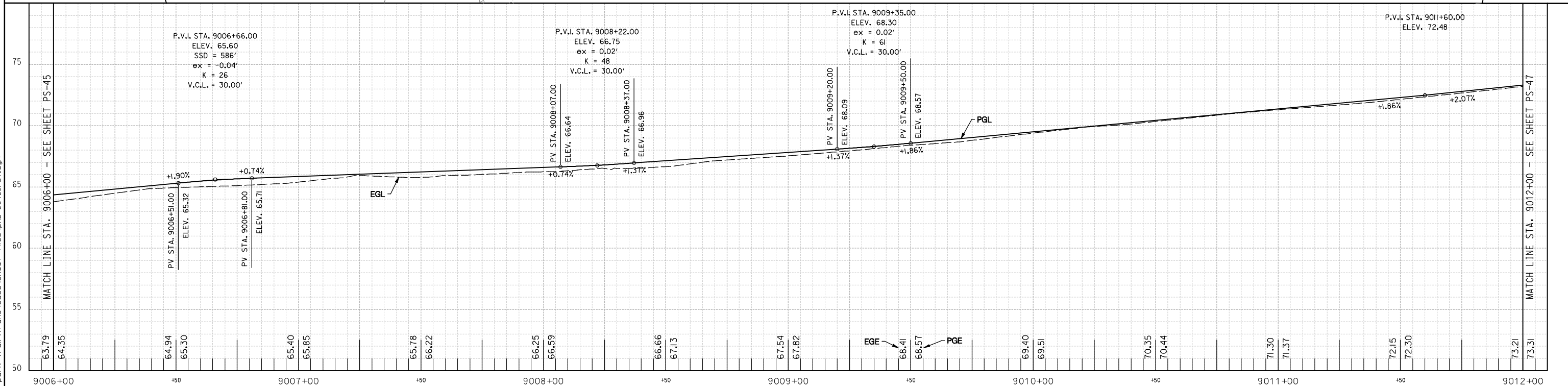
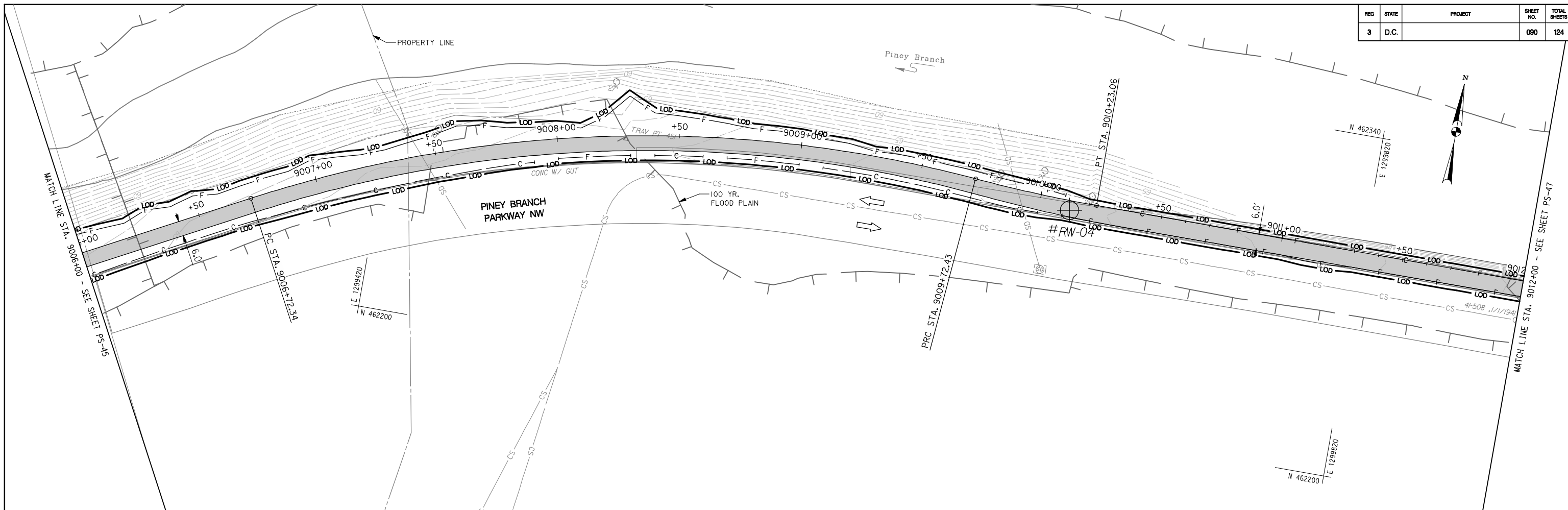
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 PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
 MULTI-USE TRAIL REHABILITATION
 30% DESIGN SUBMITTAL

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013	SCALE: H: 1"=20'; V: 1"=4'	PS-45
PLAN AND PROFILE SHEET		DIVISION CHIEF
DATE: _____		FILE: _____
SHEET 089 OF 124		

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		090	124



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PAVEMENT LEGEND

	PR. ASPHALT PAVEMENT
	PR. CONCRETE SIDEWALK
	WORK PROPOSED BY OTHERS
	PAVEMENT REMOVAL

NOT FOR CONSTRUCTION

4' 0' 4' 8'
 VERTICAL SCALE: 1" = 4'

20' 0' 20' 40'
 HORIZONTAL SCALE: 1" = 20'



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

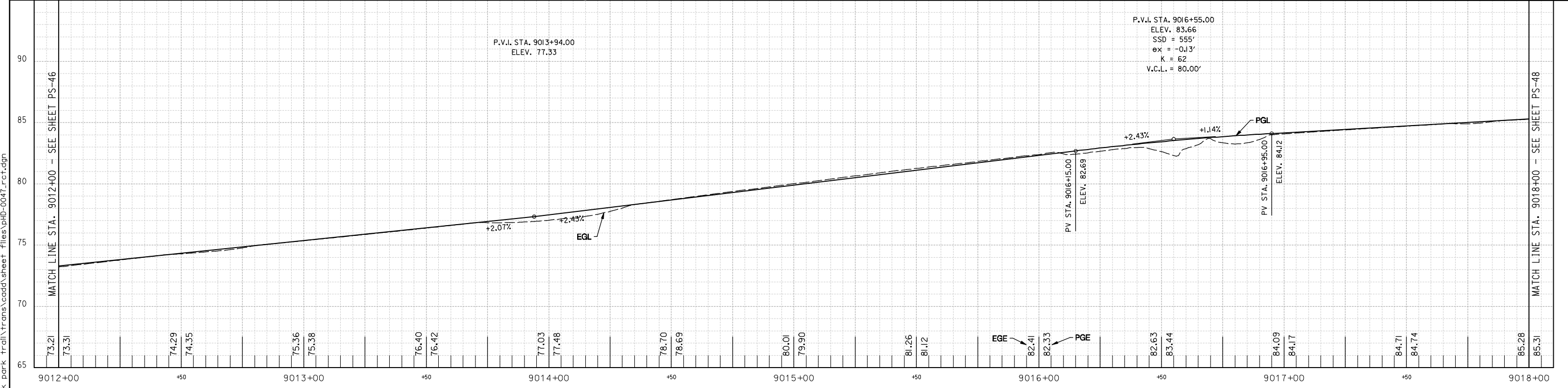
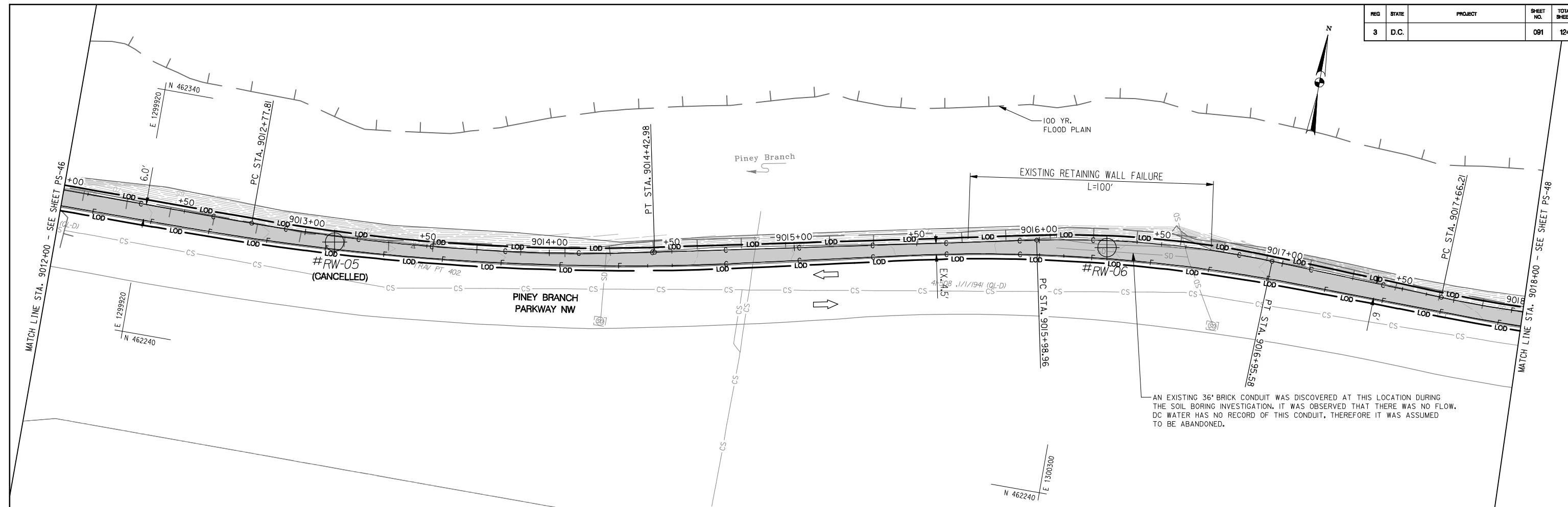
D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

**ROCK CREEK PARK
 MULTI-USE TRAIL REHABILITATION
 30% DESIGN SUBMITTAL**

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013	SCALE: H: 1"=20'; V: 1"=4'	PS-46
PLAN AND PROFILE SHEET		DIVISION CHIEF
		DATE _____
		FILE _____
		SHEET 090 OF 124

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		091	124



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PAVEMENT LEGEND

	PR ASPHALT PAVEMENT
	PR CONCRETE SIDEWALK
	WORK PROPOSED BY OTHERS
	PAVEMENT REMOVAL

NOT FOR CONSTRUCTION

VERTICAL SCALE: 1" = 4'
 HORIZONTAL SCALE: 1" = 20'



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

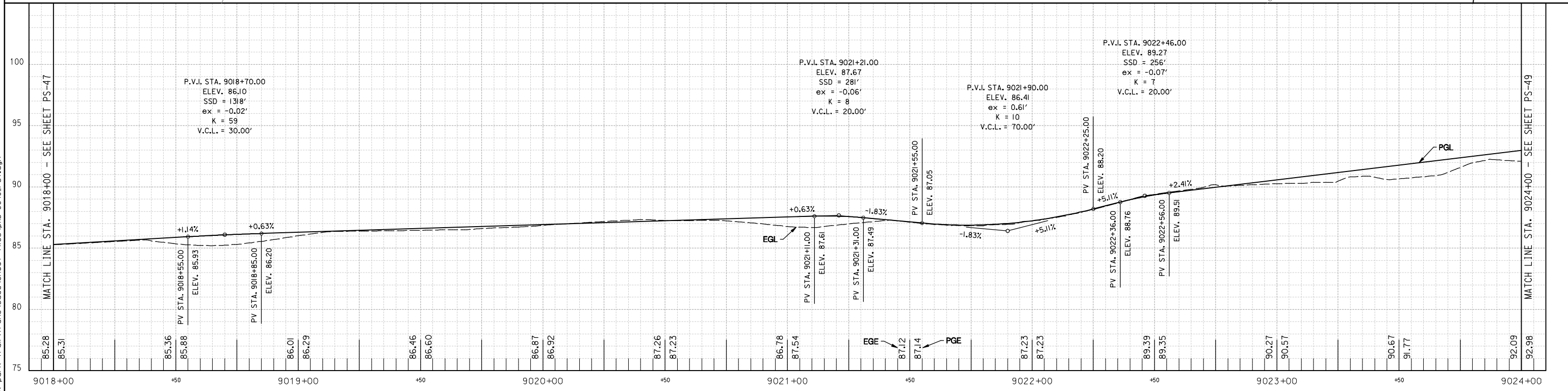
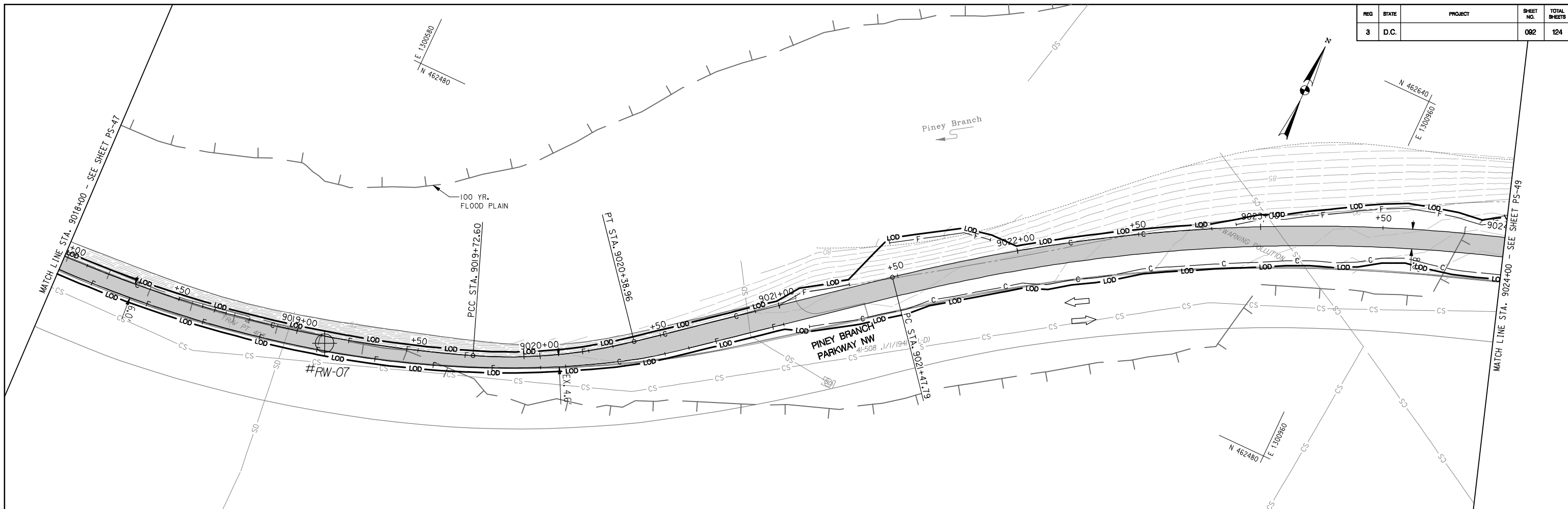
D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013	SCALE: H: 1"=20'; V: 1"=4'	PS-47
PLAN AND PROFILE SHEET		DIVISION CHIEF
		DATE: _____
		FILE: _____
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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		082	124



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PAVEMENT LEGEND

	PR. ASPHALT PAVEMENT
	PR. CONCRETE SIDEWALK
	WORK PROPOSED BY OTHERS
	PAVEMENT REMOVAL

NOT FOR CONSTRUCTION

4' 0' 4' 8'
 VERTICAL SCALE: 1"=4'

20' 0' 20' 40'
 HORIZONTAL SCALE: 1"=20'



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

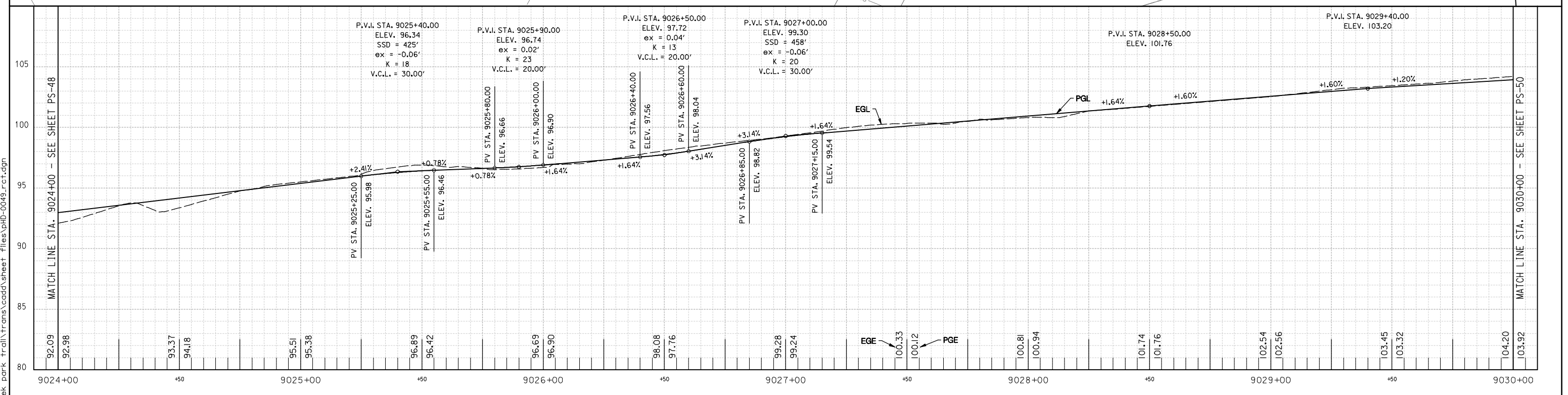
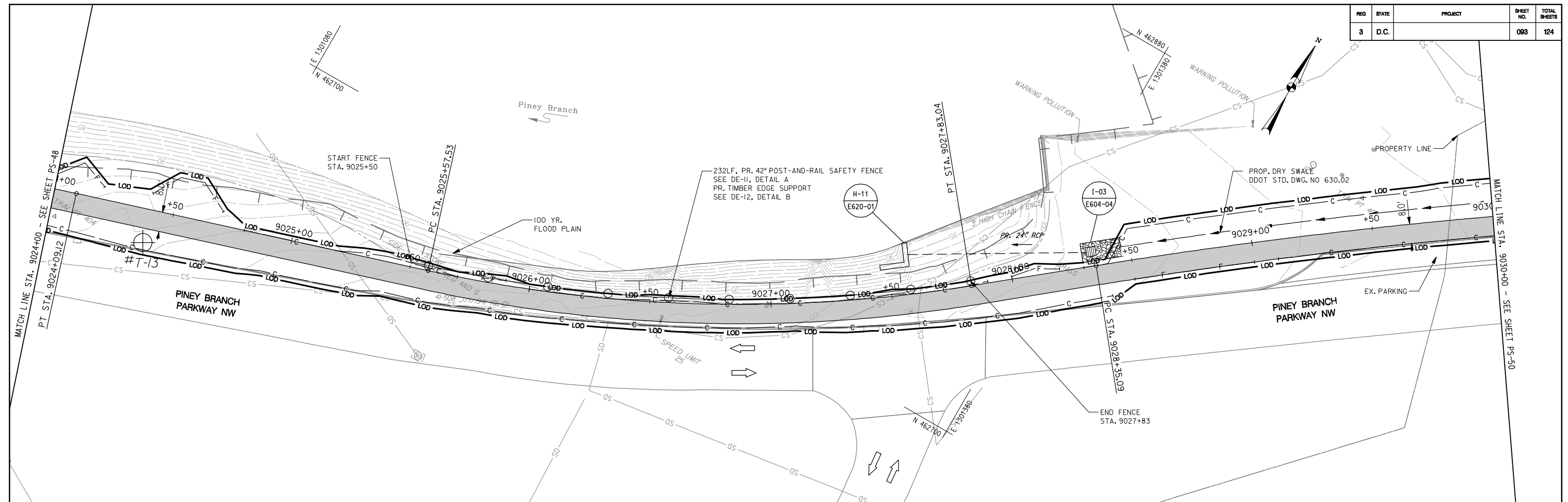
D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013	SCALE: H: 1"=20'; V: 1"=4'	PS-48
PLAN AND PROFILE SHEET		DIVISION CHIEF
		DATE _____
		FILE _____
		SHEET 082 OF 124

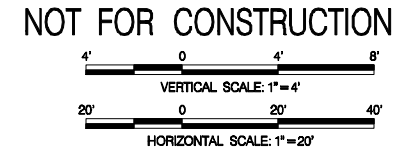
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		093	124



Thursday, September 12, 2013 AT 03:37 PM
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PAVEMENT LEGEND

	PR ASPHALT PAVEMENT
	PR CONCRETE SIDEWALK
	WORK PROPOSED BY OTHERS
	PAVEMENT REMOVAL



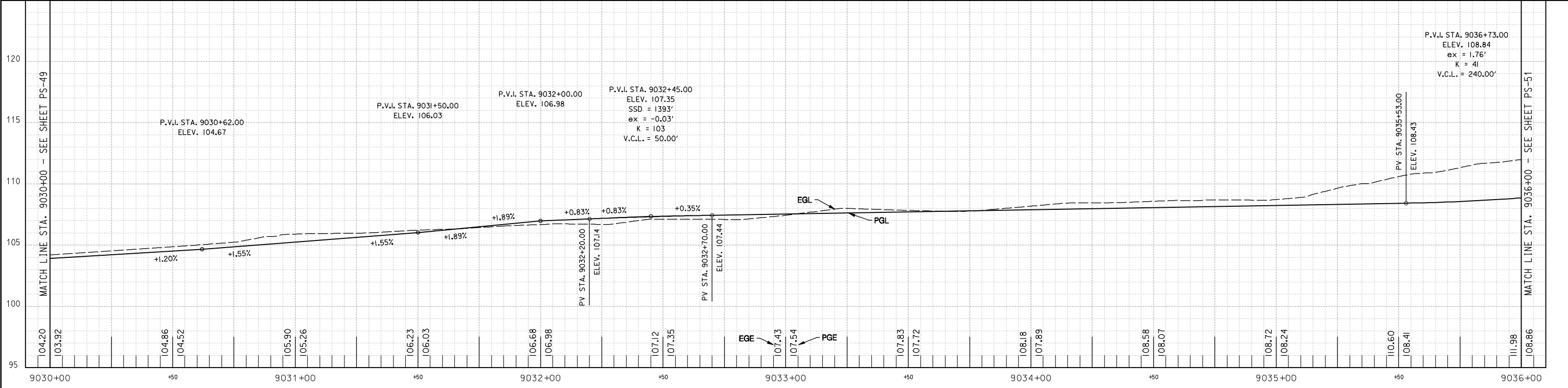
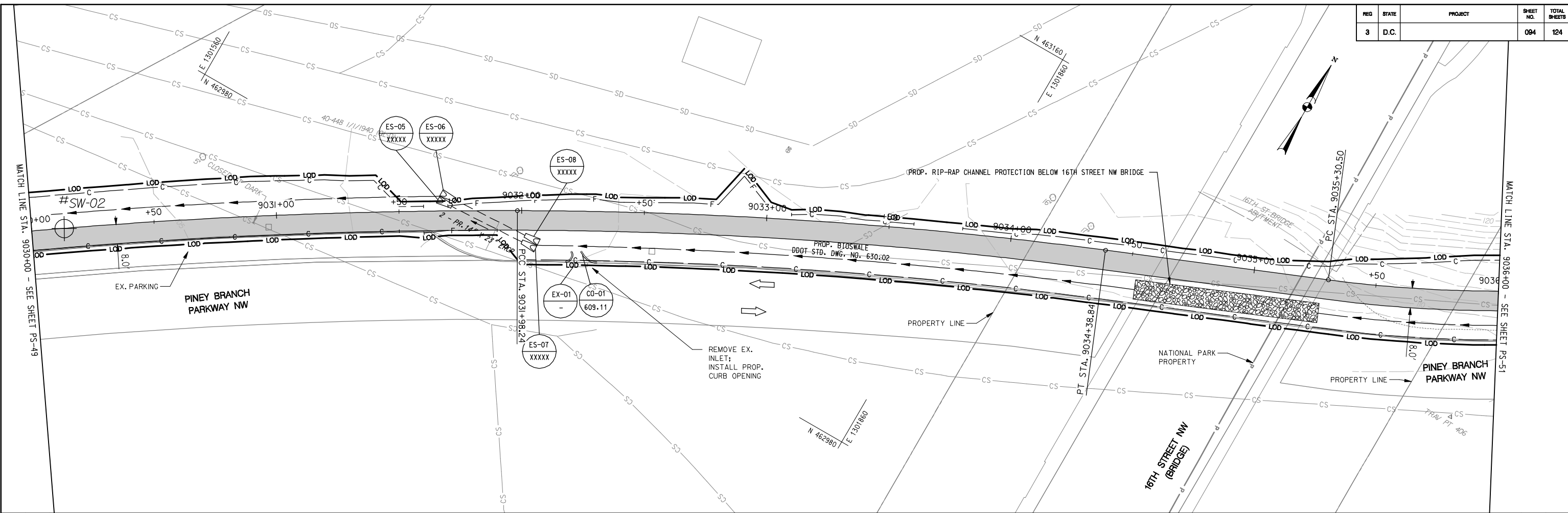
NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

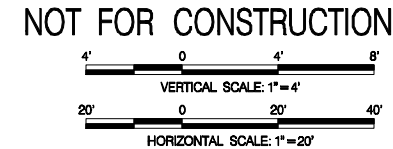
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PLAN AND PROFILE SHEET		DIVISION CHIEF
		DATE _____
		FILE _____
		SHEET 093 OF 124



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PAVEMENT LEGEND

	PR. ASPHALT PAVEMENT
	PR. CONCRETE SIDEWALK
	WORK PROPOSED BY OTHERS
	PAVEMENT REMOVAL



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

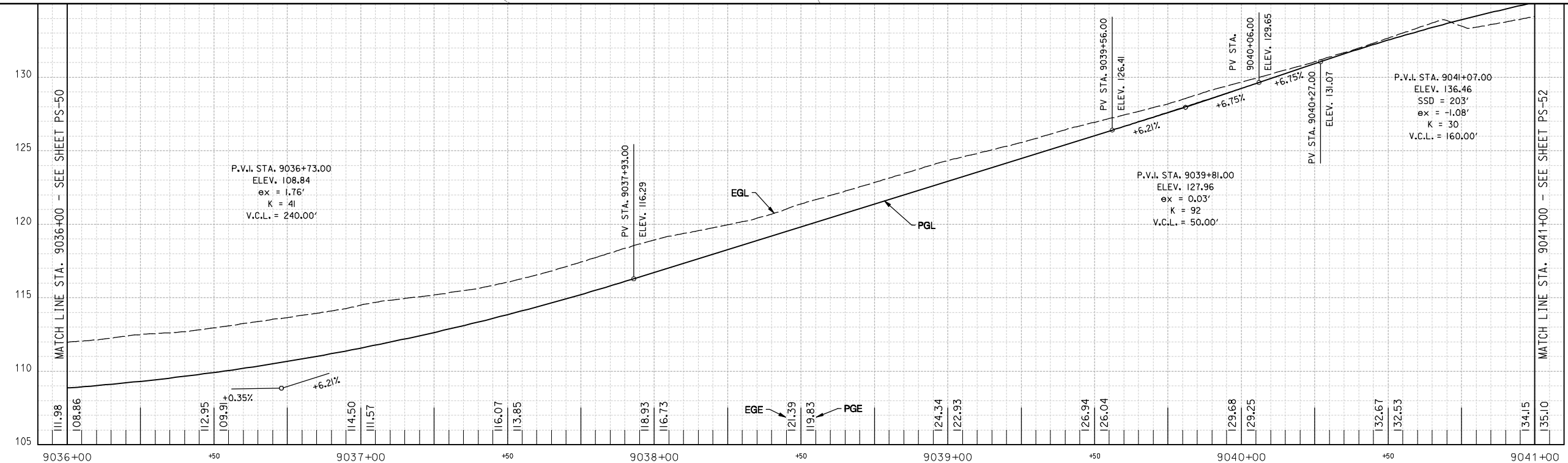
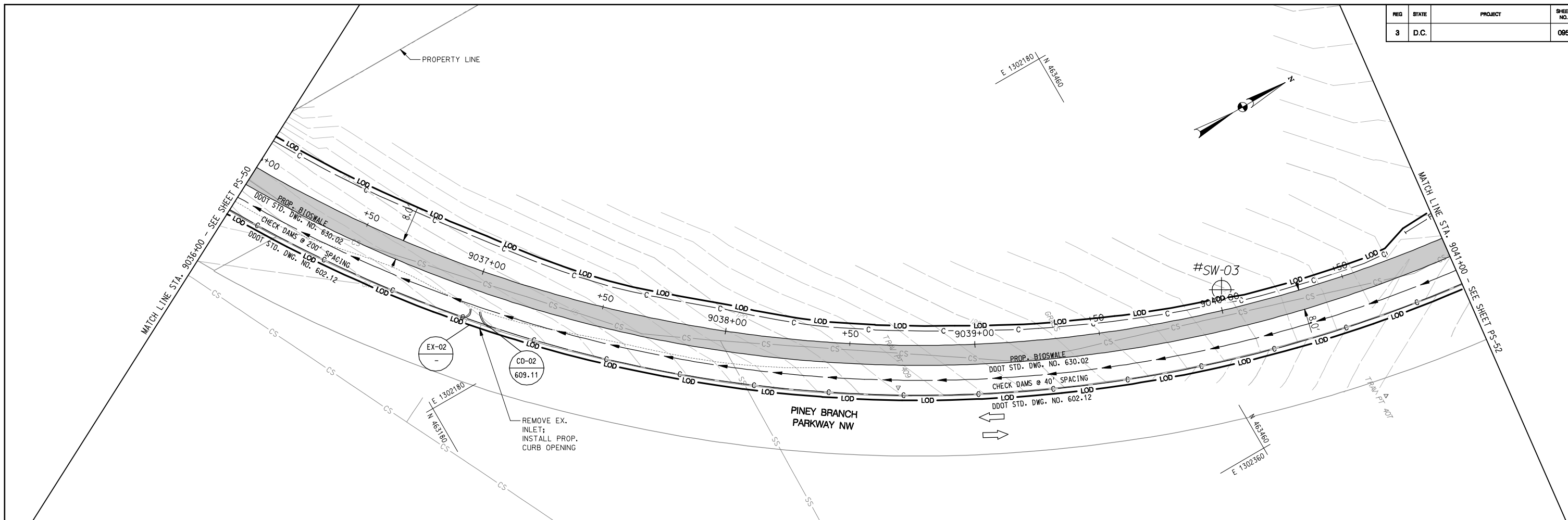
DATE: 09-13-2013 SCALE: H: 1"=20'; V: 1"=4' PS-50

PLAN AND PROFILE SHEET

DIVISION CHIEF _____
 DATE _____
 FILE _____
 SHEET 094 OF 124

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		095	124

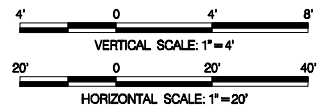


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PAVEMENT LEGEND

- PR. ASPHALT PAVEMENT
- PR. CONCRETE SIDEWALK
- WORK PROPOSED BY OTHERS
- PAVEMENT REMOVAL

NOT FOR CONSTRUCTION



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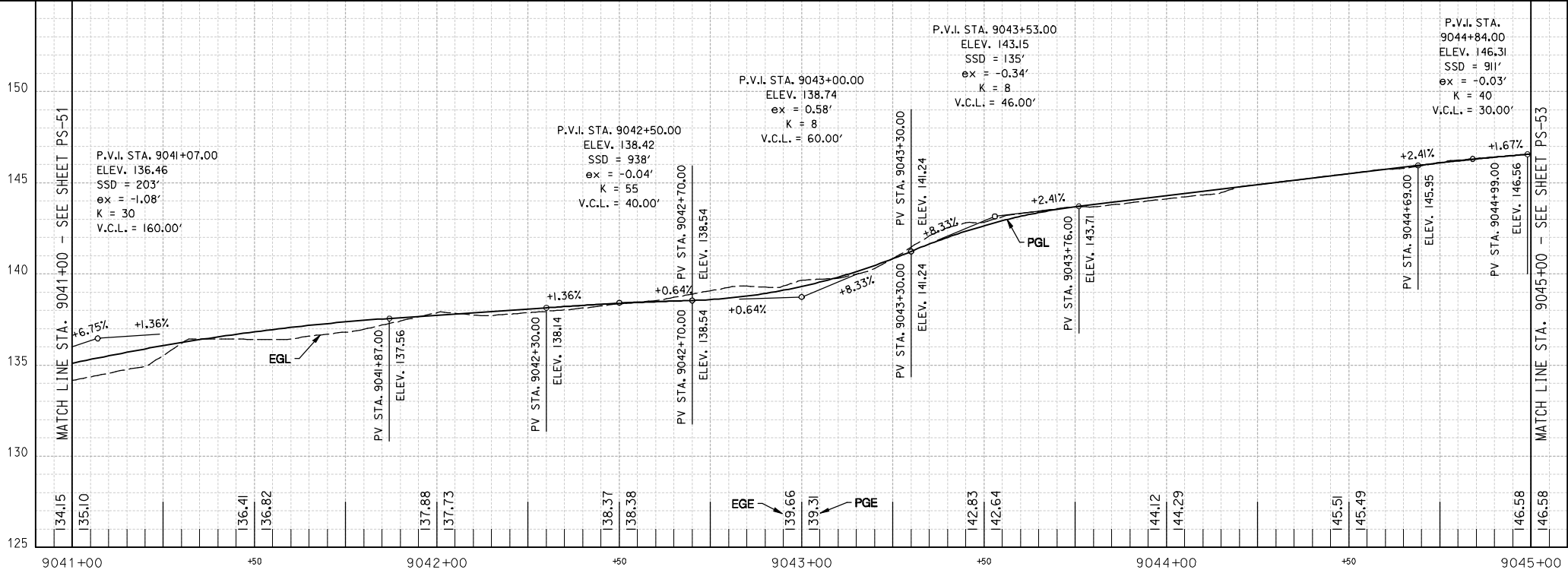
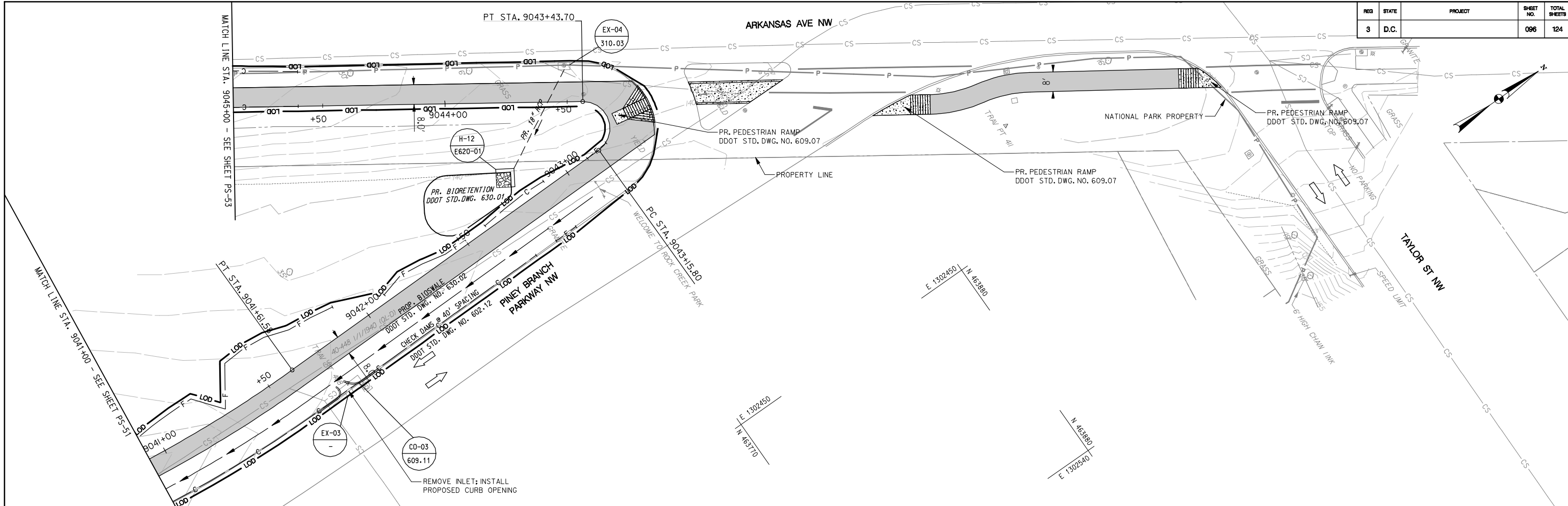
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PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013	SCALE: H: 1"=20'; V: 1"=4'	PS-51
PLAN AND PROFILE SHEET		DIVISION CHIEF
		DATE _____
		FILE _____
		SHEET 095 OF 124

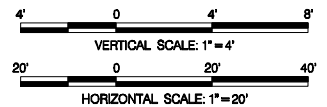
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		096	124



PAVEMENT LEGEND

- PR ASPHALT PAVEMENT
- PR CONCRETE SIDEWALK
- WORK PROPOSED BY OTHERS
- PAVEMENT REMOVAL

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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

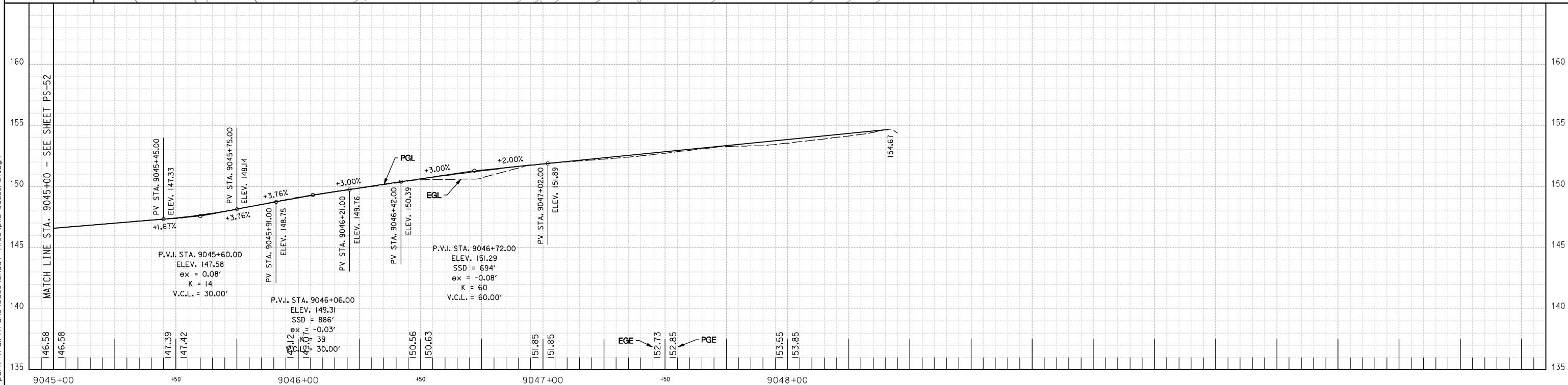
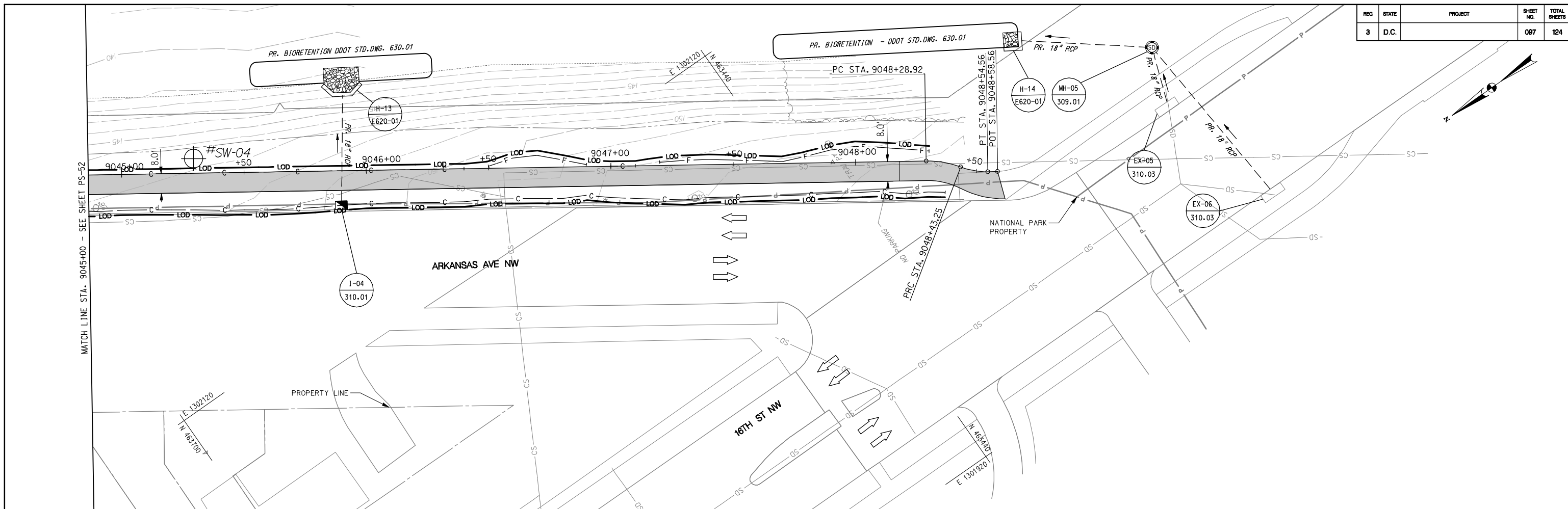
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INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

DATE: 09-13-2013	SCALE: H: 1"=20'; V: 1"=4'	PS-52
PLAN AND PROFILE SHEET		DIVISION CHIEF
PROJECT ENG. _____		DATE _____
DESIGNED BY _____		FILE _____
DRAWN BY _____		SHEET 096 OF 124
PROJECT MGR. _____		

Thursday, September 12, 2013 AT 03:37 PM
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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		097	124



Thursday, September 12, 2013 AT 03:37 PM
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PAVEMENT LEGEND

	PR. ASPHALT PAVEMENT
	PR. CONCRETE SIDEWALK
	WORK PROPOSED BY OTHERS
	PAVEMENT REMOVAL

NOT FOR CONSTRUCTION

VERTICAL SCALE: 1" = 4'
 HORIZONTAL SCALE: 1" = 20'



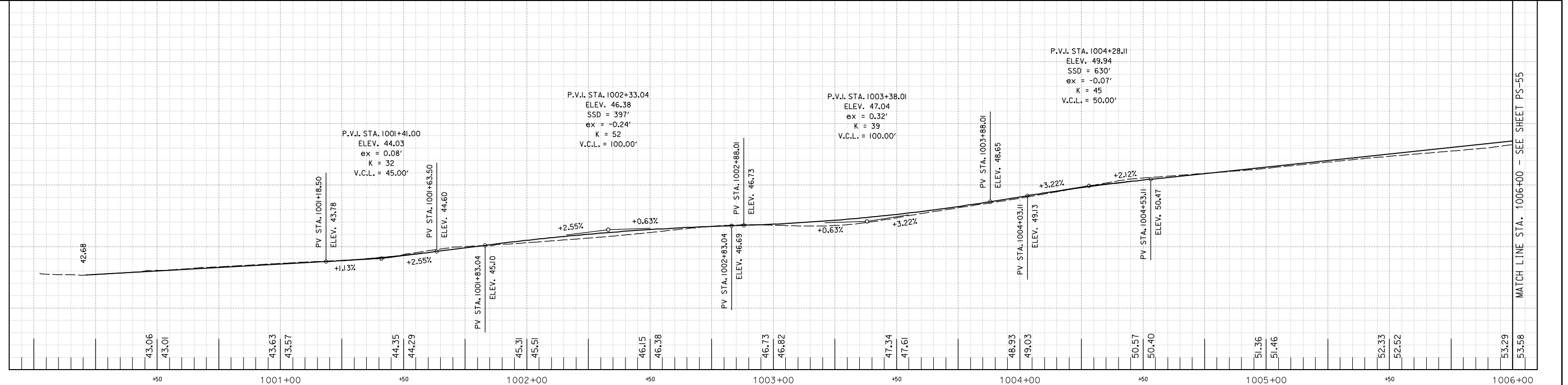
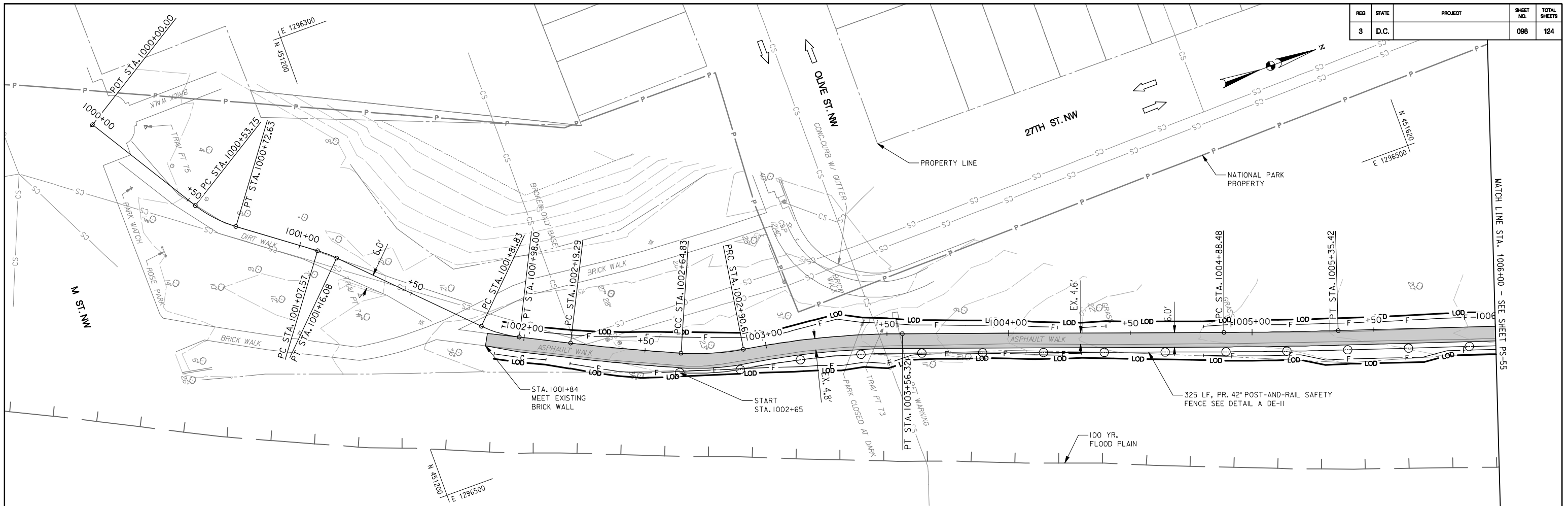
NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

**ROCK CREEK PARK
 MULTI-USE TRAIL REHABILITATION
 30% DESIGN SUBMITTAL**

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013	SCALE: H: 1"=20'; V: 1"=4'	PS-53
PLAN AND PROFILE SHEET		DIVISION CHIEF
		DATE _____
		FILE _____
		SHEET 097 OF 124

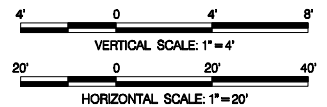


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PAVEMENT LEGEND

- PR. ASPHALT PAVEMENT
- PR. CONCRETE SIDEWALK
- WORK PROPOSED BY OTHERS
- PAVEMENT REMOVAL

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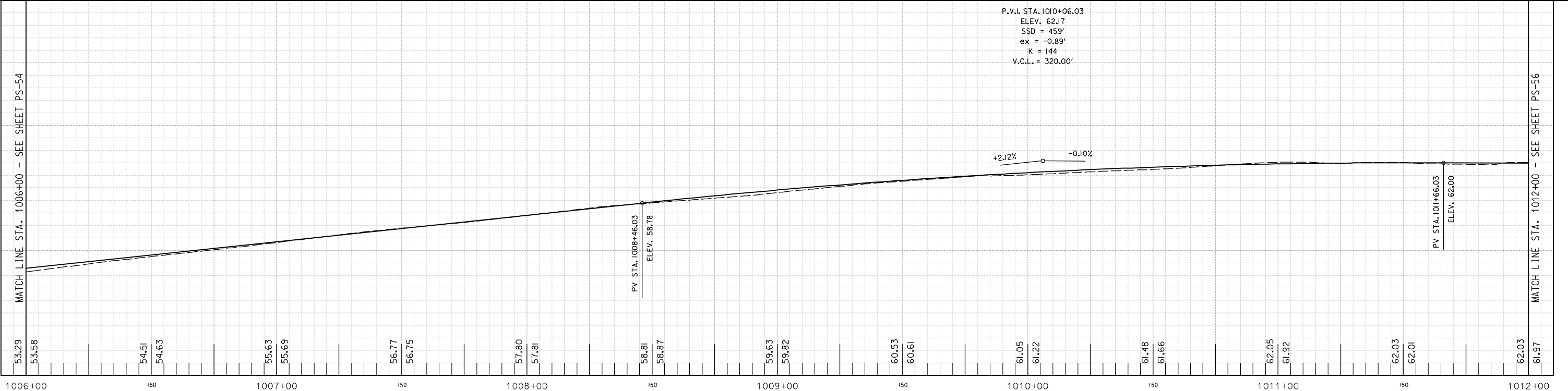
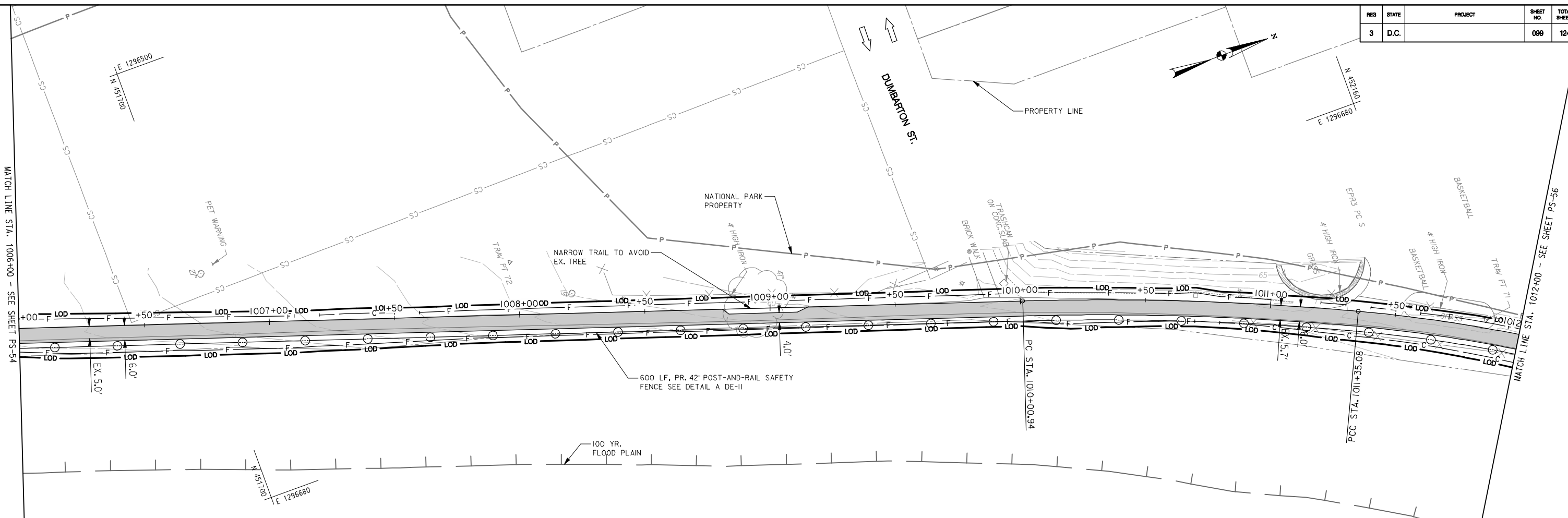
NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

DATE: 09-13-2013	SCALE: H: 1"=20'; V: 1"=4'	PS-54
PLAN AND PROFILE SHEET		DIVISION CHIEF
PROJECT ENG. _____		DATE _____
DESIGNED BY _____		FILE _____
DRAWN BY _____		SHEET 098 OF 124
PROJECT MGR. _____		

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		099	124



Thursday, September 12, 2013 AT 03:37 PM
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PAVEMENT LEGEND

	PR ASPHALT PAVEMENT
	PR CONCRETE SIDEWALK
	WORK PROPOSED BY OTHERS
	PAVEMENT REMOVAL

NOT FOR CONSTRUCTION

VERTICAL SCALE: 1" = 4'
 HORIZONTAL SCALE: 1" = 20'



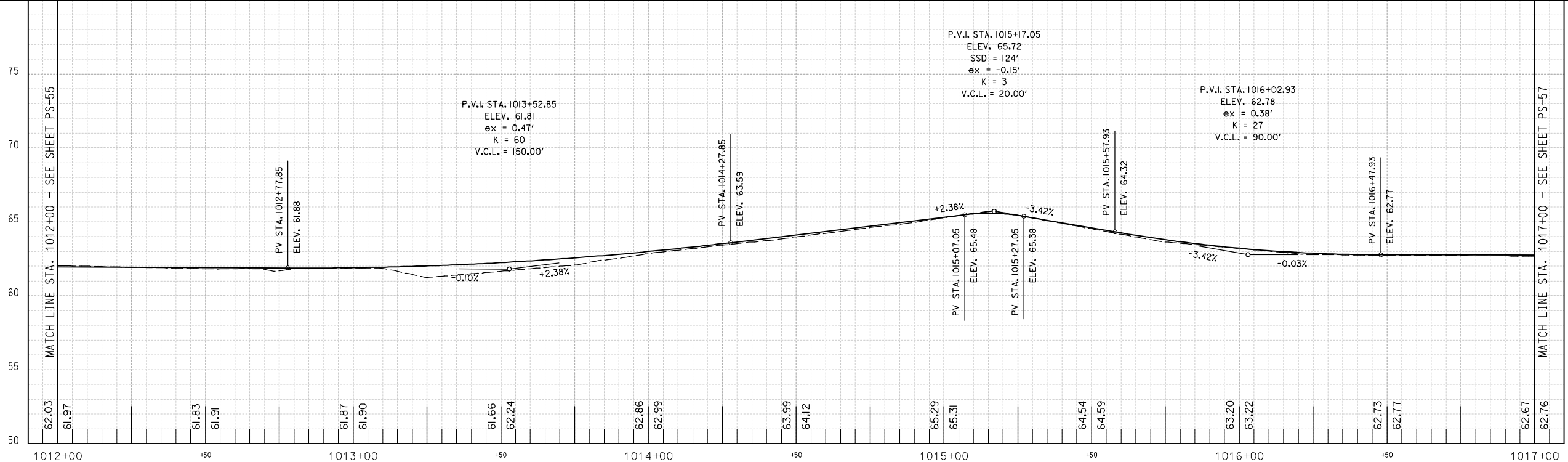
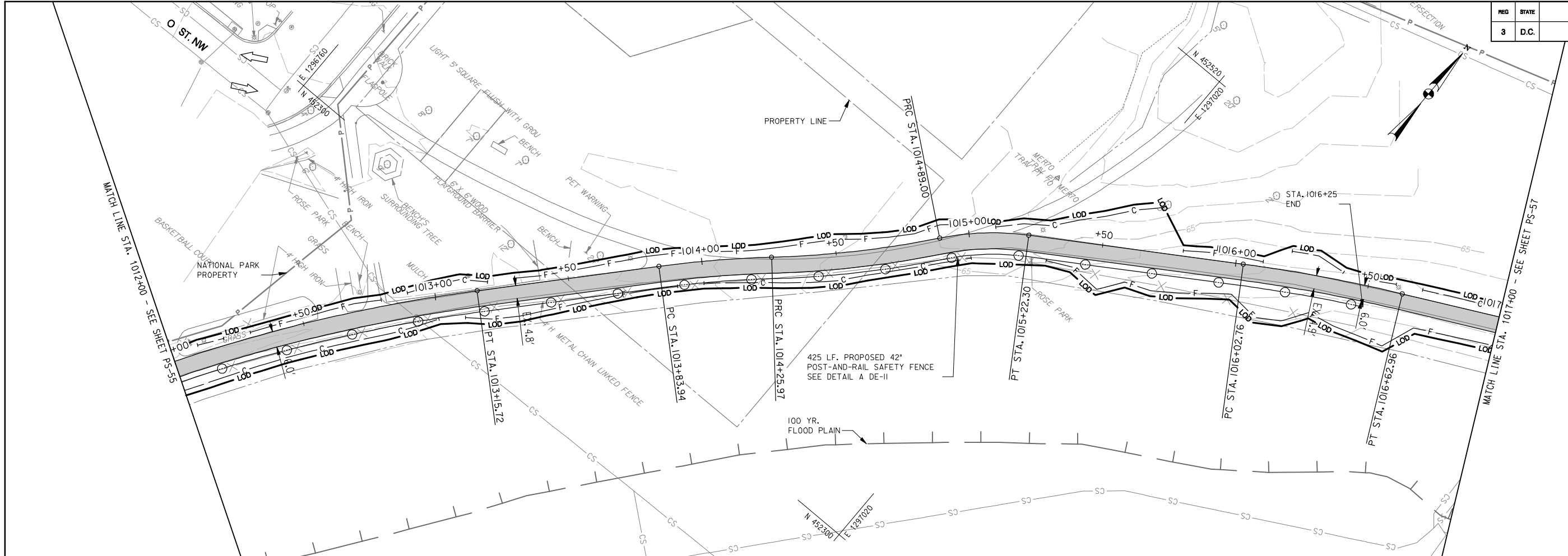
NO.	DESCRIPTION	NAME	DATE
REVISIONS			

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 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

**ROCK CREEK PARK
 MULTI-USE TRAIL REHABILITATION
 30% DESIGN SUBMITTAL**

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013	SCALE: H: 1"=20'; V: 1"=4'	PS-55
PLAN AND PROFILE SHEET		DIVISION CHIEF
		DATE _____
		FILE _____
		SHEET 099 OF 124

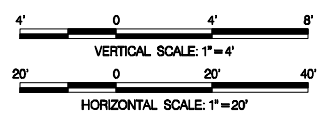


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PAVEMENT LEGEND

- PR. ASPHALT PAVEMENT
- PR. CONCRETE SIDEWALK
- WORK PROPOSED BY OTHERS
- PAVEMENT REMOVAL

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MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

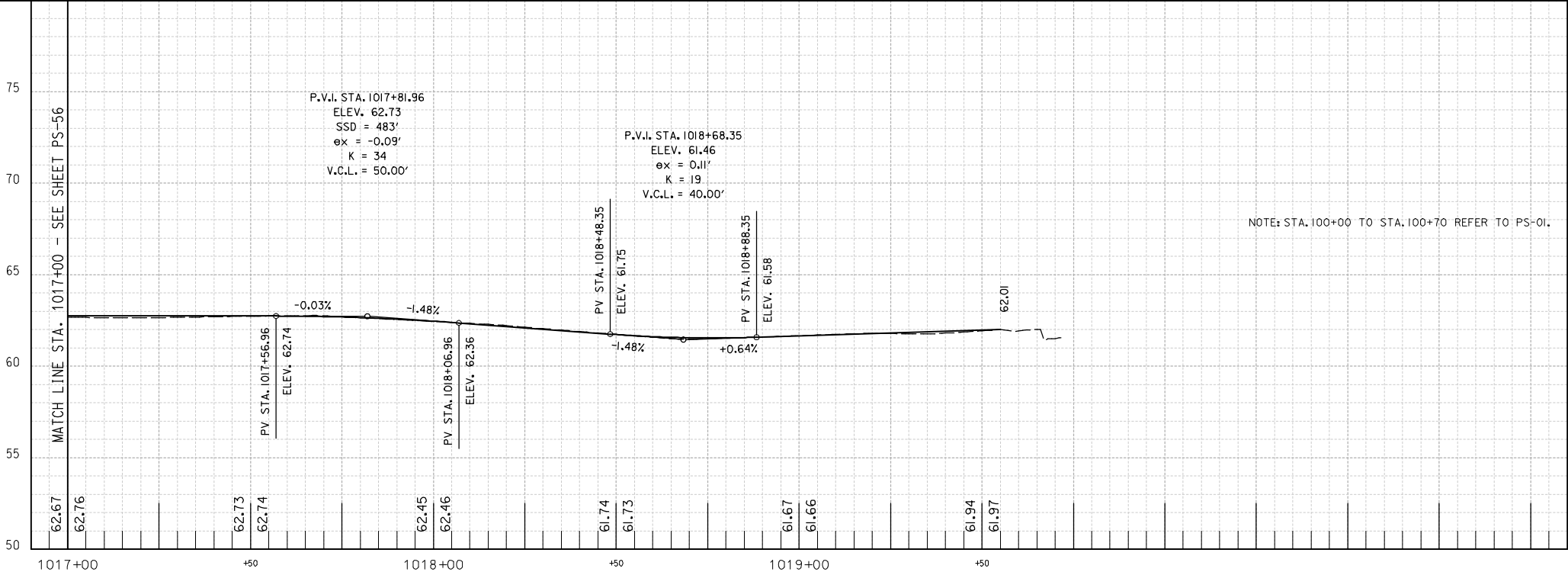
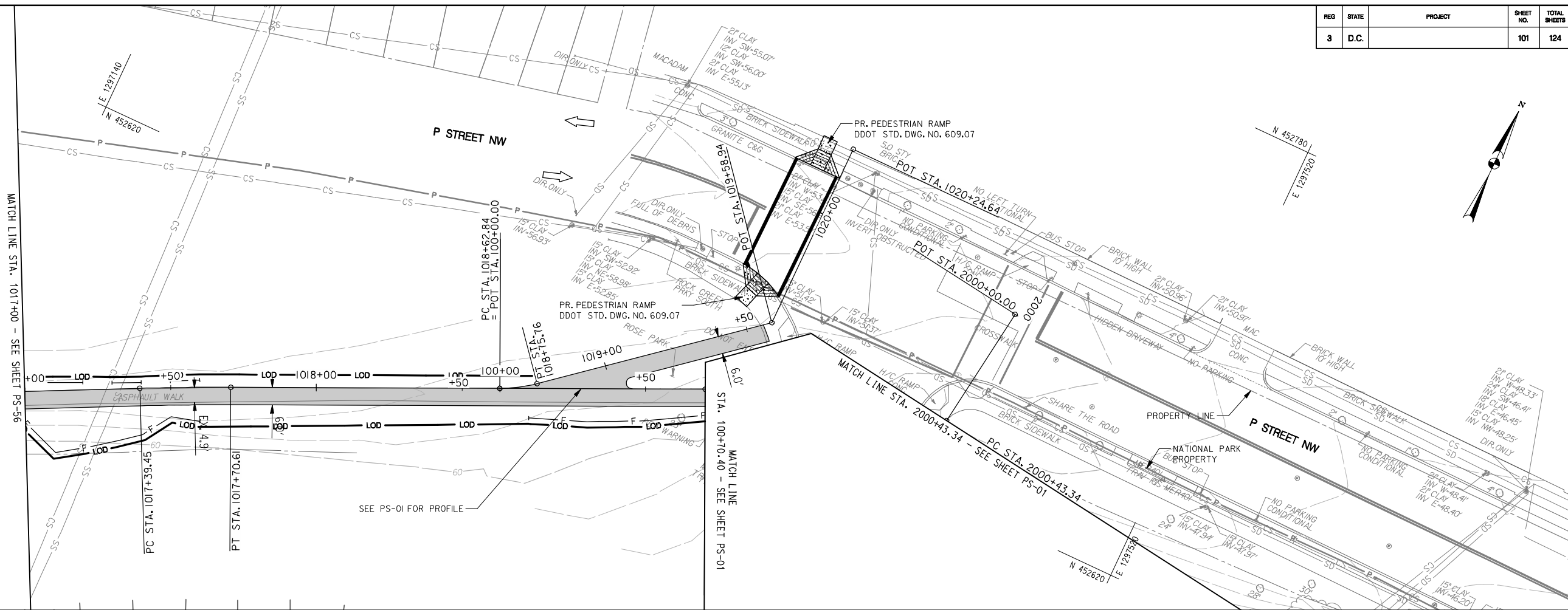
PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013 SCALE: H: 1"=20'; V: 1"=4' PS-56

PLAN AND PROFILE SHEET

DIVISION CHIEF _____
 DATE _____
 FILE _____
 SHEET 100 OF 124

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		101	124

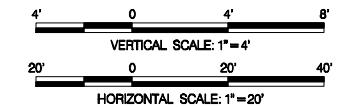


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PAVEMENT LEGEND

- PR. ASPHALT PAVEMENT
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- WORK PROPOSED BY OTHERS
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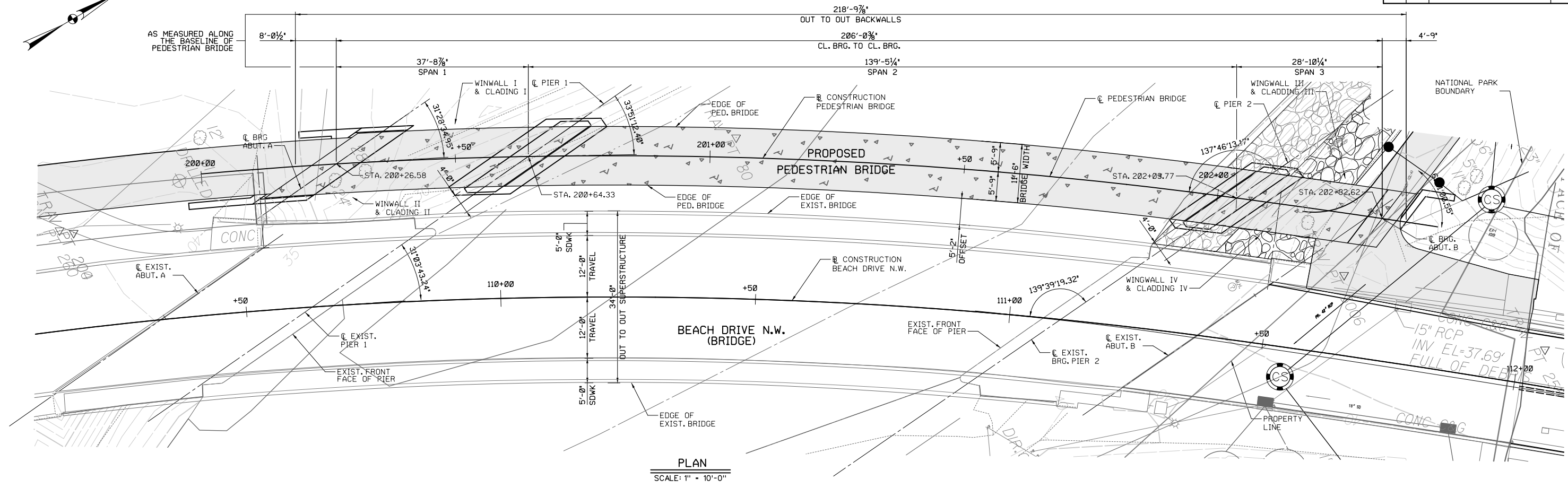
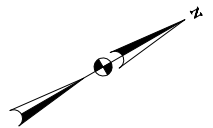
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PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

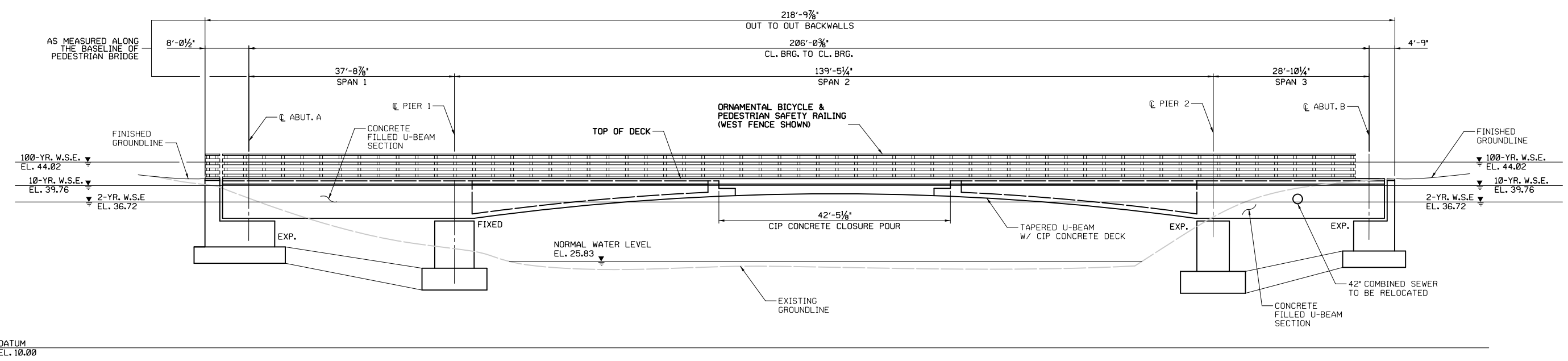
PROJECT ENG. _____
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 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013	SCALE: H: 1"=20'; V: 1"=4'	PS-57
PLAN AND PROFILE SHEET		DIVISION CHIEF
		DATE _____
		FILE _____
		SHEET 101 OF 124

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		102	124



PLAN
SCALE: 1" = 10'-0"



ELEVATION
SCALE: 1" = 10'-0"

NOT FOR CONSTRUCTION



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

DATE: 09-13-2013	SCALE: AS SHOWN	BR-01
GENERAL PLAN AND ELEVATION		DIVISION CHIEF
		DATE _____
		FILE _____
		SHEET 102 OF 124

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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		103	124

GENERAL NOTES:

SPECIFICATIONS

- AASHTO LOAD AND RESISTANCE FACTOR DESIGN (LRFD) BRIDGE DESIGN SPECIFICATIONS, SIXTH EDITION, 2013 INCLUDING ALL INTERIM SPECIFICATIONS
- AASHTO/AWS BRIDGE WELDING CODE D1.5M/D1.5:2010
- AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS, SIXTH EDITION 2013.

ALL CONSTRUCTION MATERIALS AND PROCEDURES SHALL BE GOVERNED BY THE STANDARD SPECIFICATIONS FOR HIGHWAYS AND STRUCTURES DATED 2009, ISSUED BY THE DISTRICT OF COLUMBIA DEPARTMENT OF PUBLIC WORKS, AND THE SPECIAL PROVISIONS.

DESIGN METHOD AND LOADS

LOAD AND RESISTANCE FACTOR DESIGN METHOD.

THE BRIDGE IS DESIGNED FOR 85 PSF LIVE LOADING.

RATINGS:

RATINGS ARE BASED ON LOAD AND RESISTANCE FACTOR RATING METHOD UTILIZING THE LOADINGS STATED IN THE GENERAL NOTES.

HL-93 INVENTORY RATING = 1.47
HL-93 OPERATING RATING = 1.90

PREFABRICATED CONSTRUCTION

IN ADDITION TO THE SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS, THE FOLLOWING REQUIREMENTS SHALL APPLY FOR THE CONSTRUCTION AND ERECTION OF PREFABRICATED PIER AND SUPERSTRUCTURE UNITS REQUIRED BY THIS PROJECT.

SHOP DRAWINGS, FOR APPROVAL BY THE ENGINEER, SHALL BE PROVIDED WHICH DETAIL THE METHOD OF FABRICATION AND SUPPORT AT THE PRECAST CONCRETE MANUFACTURING PLANT. SHOP DRAWING SHALL INCLUDE DETAILS OF ANY INSERTS REQUIRED FOR ERECTION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A TRANSPORTATION AND ERECTION PLAN FOR THE PREFABRICATED UNITS TO THE ENGINEER FOR APPROVAL.

SHOP DRAWINGS FOR TEMPORARY SUPPORT OF THE PREFABRICATED PIER UNITS REQUIRED DURING ERECTION AND CASTING OF THE CLOSURE POUR SHALL BE PROVIDED TO THE ENGINEER FOR APPROVAL. SUBMISSION SHALL MEET THE REQUIREMENTS OF 703.16 OF THE STANDARD SPECIFICATIONS, SPECIAL PROVISIONS AND STRUCTURAL GENERAL NOTES.

EXISTING REINFORCING STEEL

THE COST OF CLEANING AND BENDING EXISTING REINFORCING STEEL TO BE USED FOR BONDING WITH NEW WORK SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR "DEMOLITION". BROKEN OR OTHERWISE UNSUITABLE REINFORCING STEEL SHALL BE REPLACED WITH DRILLED AND GROUTED REINFORCEMENT OF EQUAL OR GREATER SIZE. PRIOR TO ANY REPLACEMENT WORK, DETAILS OF REPLACEMENT WORK SHALL BE PROVIDED TO THE ENGINEER FOR APPROVAL.

UTILITIES

PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR MUST NOTIFY "MISS UTILITY" 48 HOURS IN ADVANCE FOR THE EXACT LOCATION OF UTILITIES LOCATED ON THE SITE.

ALL EXISTING UTILITIES ON THE SITE, IF AFFECTED BY THE CONSTRUCTION, MUST BE PROTECTED AND TEMPORARILY SUPPORTED DURING CONSTRUCTION. ANY DAMAGE INCURRED TO UTILITIES MUST BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE. UTILITY RELOCATION, IF NECESSARY, SHALL BE COORDINATED WITH THE AGENCIES INVOLVED.

THE FOLLOWING COMPANIES HAVE UTILITIES WITHIN THE AREA OF CONTRACT LIMITS:

1. POTOMAC ELECTRIC AND POWER COMPANY
2. WATER AND SEWER UTILITY ADMINISTRATION OF THE DISTRICT OF COLUMBIA
3. VERIZON TELEPHONE COMPANY
4. WASHINGTON GAS COMPANY

THE EXISTENCE OF OTHER UTILITIES IS NOT KNOWN. FOR FULL INFORMATION REGARDING UTILITY PROTECTION, SEE 107.16, UTILITY PROTECTIVE ALERT IN THE STANDARD SPECIFICATIONS.

ANCHOR BOLT HOLES

HOLES FOR ANCHOR BOLTS SHALL MEET THE REQUIREMENTS OF 703.20(B) OF THE STANDARD SPECIFICATIONS. DRILLED ANCHOR BOLT HOLES SHALL ONLY BE ALLOWED AT THE ABUTMENTS. TEMPLATES SHALL BE USED FOR DRILLING HOLES AND INSTALLING ANCHOR BOLTS. ANCHOR BOLT HOLES SHALL BE CAST INTO THE PREFABRICATED PIER UNITS. UNFILLED HOLES SHALL BE PROTECTED AGAINST RUPTURE IN FREEZING WEATHER. EPOXY MORTAR SHALL BE USED TO FILL HOLES AROUND ANCHOR BOLTS.

REINFORCING STEEL

AASHTO M31, ASTM A615, GRADE 60.

ALL REINFORCING STEEL SHALL BE EPOXY COATED IN ACCORDANCE WITH 704.09 OF THE STANDARD SPECIFICATIONS, EXCEPT AS FOLLOWS:

REINFORCING STEEL THAT IS ENTIRELY CAST INTO THE FOOTING OF THE PIER.

REINFORCING STEEL THAT IS CAST INTO FOOTING AND EXTENDS INTO THE MEDIAN BARRIER AND PIER.

REINFORCING STEEL EXEMPTED BY THE ENGINEER.

AT MECHANICAL SPLICES OF REINFORCING BARS, A FULL MECHANICAL CONNECTION SHALL DEVELOP IN TENSION OR COMPRESSION, AS REQUIRED, AT LEAST 125 PERCENT OF THE SPECIFIED YIELD STRENGTH OF THE BAR. THE ALLOWABLE SLIP SHALL NOT EXCEED 0.0100 INCH MAXIMUM AS DETERMINED BY CALIFORNIA TEST NO. 670. THE ULTIMATE TENSILE STRENGTH OF THE MECHANICAL COUPLER SYSTEM SHALL BE AT LEAST 90 PERCENT OF THE ULTIMATE TENSILE STRENGTH OF THE BAR AS DETERMINED BY CALIFORNIA TEST NO. 670. THE FATIGUE RESISTANCE ALLOWABLE SLIP FOR 10,000 CYCLES, AS DETERMINED BY CALIFORNIA TEST NO. 670 WITH A STRESS RANGE FROM +25 KIPS PER SQUARE INCH TO -25 KIPS PER SQUARE INCH, SHALL NOT EXCEED 0.05 INCH MAXIMUM.

PROVIDE EPOXY COATING FOR MECHANICAL SPLICE SYSTEMS ACCORDING TO APPLICABLE PORTIONS OF AASHTO M284.

THE CONTRACTOR SHALL CERTIFY THE MECHANICAL SPLICE SYSTEM IN ACCORDANCE WITH 106.03 OF THE STANDARD SPECIFICATIONS.

REINFORCED CONCRETE

ALL WORK SHALL BE DONE IN ACCORDANCE WITH 703 OF THE STANDARD SPECIFICATIONS, EXCEPT WHERE NOTED OTHERWISE.

MINIMUM CONCRETE COVER (UNLESS OTHERWISE NOTED):

- TOP OF BRIDGE DECK SLAB - 2"
- BOTTOM OF BRIDGE DECK SLAB - 1½"
- TOP OF PIER - 3"
- BOTTOM AND SIDES OF FOOTING - 3"
- ALL OTHER LOCATIONS - 2" (UNLESS OTHERWISE NOTED)

CONCRETE SHALL BE LIGHTWEIGHT CONCRETE FOR PREFABRICATED SUPERSTRUCTURE DECK SLABS AND CAST-IN-PLACE DECK SLABS. ALL OTHER CONCRETE SHALL BE STANDARD NORMAL WEIGHT CONCRETE.

LIGHTWEIGHT CONCRETE SHALL MEET THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS ON PCC MIX DESIGN FOR CLASS H CONCRETE WITH THE EXCEPTION OF THE MINIMUM 28-DAY COMPRESSIVE STRENGTH. MINIMUM COMPRESSIVE STRENGTH OF LIGHTWEIGHT CONCRETE AT 28 DAYS SHALL BE 4500 PSI WHICH SHALL SUPERSEDE THE REQUIREMENT IN THE STANDARD SPECIFICATIONS. LIGHTWEIGHT CONCRETE SHALL MEET THE LOW PERMEABILITY REQUIREMENTS OF 817.05 OF THE STANDARD SPECIFICATIONS.

NORMAL WEIGHT CONCRETE SHALL MEET THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS ON PCC MIX DESIGN FOR CLASS B CONCRETE. MINIMUM COMPRESSIVE STRENGTH OF NORMAL WEIGHT CONCRETE AT 28 DAYS SHALL BE 4500 PSI.

CONSTRUCTION JOINTS SHALL BE MADE ONLY WHERE SHOWN ON THE PLANS. ADDITIONAL JOINTS SHALL BE MADE ONLY WITH APPROVAL OF THE ENGINEER.

EXPOSED CONCRETE EDGES SHALL BE CHAMFERED ¾" X ¾", EXCEPT AS NOTED OTHERWISE.

GROUTED KEYS

GROUT USED FOR KEYS BETWEEN PRECAST SUPERSTRUCTURE UNITS SHALL MEET REQUIREMENTS OF 806.05(E) OF THE STANDARD SPECIFICATIONS. THE COST OF THE GROUTED KEYS (MATERIALS, LABOR, ETC.) SHALL BE INCLUDED IN THE ITEM FOR LIGHTWEIGHT SUPERSTRUCTURE CONCRETE.

PATCHING MATERIALS

ALL PATCHING MATERIALS REQUIRED FOR USE IN CONCRETE REPAIR SHALL BE FREE OF CHLORIDES.

WATERPROOFING MEMBRANE AND OVERLAY FOR CONCRETE

APPLY WATERPROOFING MEMBRANE AND ASPHALT OVERLAY IN ACCORDANCE WITH SPECIAL PROVISION 795 WATERPROOFING.

DRILLING HOLES IN CONCRETE

THE COST OF DRILLING HOLES IN CONCRETE AND GROUTING OF REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE RESPECTIVE CONCRETE ITEM. WHERE DRILLING AND GROUTING IS DONE FOR THE ATTACHMENT OF RAILINGS OR OTHER DEVICES, THE COST SHALL BE PART OF THE ITEM TO BE ATTACHED.

STAY-IN-PLACE FORMS

STAY-IN-PLACE FORMS WILL NOT BE PERMITTED ON THIS PROJECT.

DIMENSIONS

ALL STRUCTURE DIMENSIONS ARE BASED ON A NORMAL TEMPERATURE OF 70°F. ALL PLAN DIMENSIONS ARE HORIZONTAL UNLESS OTHERWISE INDICATED.

VERIFICATION OF EXISTING DIMENSIONS AND ELEVATIONS

PRIOR TO CONSTRUCTION AND PREPARATION OF SHOP DRAWINGS, THE CONTRACTOR SHALL CHECK THE DIMENSIONS AND ELEVATIONS OF THE EXISTING STRUCTURE. IF THESE DIMENSIONS AND ELEVATIONS DO NOT AGREE WITH THOSE SHOWN ON THE CONTRACT DRAWINGS, THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS TO THE DIMENSIONS AND PROFILE GRADES SHOWN ON THE CONTRACT PLANS TO INSURE THAT THE NEW CONSTRUCTION WILL PROPERLY FIT ONTO THE EXISTING STRUCTURE.

TEMPORARY SUPPORT DURING CONSTRUCTION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, FABRICATION, ERECTION, MAINTENANCE AND REMOVAL OF ALL TEMPORARY STRUCTURES REQUIRED FOR THIS WORK. ALL TEMPORARY SUPPORT SYSTEMS, INCLUDING FALSEWORK, PROTECTION SHIELDS AND OTHER TEMPORARY STRUCTURES SHALL MEET THE REQUIREMENTS OF 703.16, FALSEWORK AND CENTERING.

PRIOR TO FABRICATION, THE CONTRACTOR SHALL SUBMIT SHOP/WORKING DRAWINGS, DESIGN CALCULATIONS AND ERECTION METHODS FOR ALL TEMPORARY SUPPORT SYSTEMS, DESIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER, TO THE ENGINEER FOR REVIEW AND COMMENTS. INCLUDED IN THE CONTRACTOR'S SUBMITTALS SHALL BE ADEQUATE DRAWINGS AND PROCEDURES FOR SAFELY EXECUTING THE TRANSITIONS OF TEMPORARY SUPPORT SYSTEMS BETWEEN PHASES OF WORK. AFTER ERECTING THE SYSTEM AT A NEW LOCATION, THE PROFESSIONAL ENGINEER SHALL CERTIFY THAT THE TEMPORARY SUPPORT SYSTEM HAS BEEN PROPERLY CONSTRUCTED.

BONDING NEW CONCRETE TO OLD CONCRETE

ALL NEW CONCRETE SHALL BE BONDED TO EXISTING CONCRETE WITH AN EPOXY RESIN ADHESIVE SYSTEM. THE SURFACES OF EXISTING CONCRETE WHICH ARE TO BE IN CONTACT WITH NEW CONCRETE SHALL BE CLEANED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

STONE MASONRY FACING

THE REPLACEMENT, RESETTING AND CONSTRUCTION OF STONE MASONRY FACING SHALL BE CONDUCTED ACCORDING TO THE REQUIREMENTS OF 708 OF THE STANDARD SPECIFICATIONS AND SHALL MATCH EXISTING ADJACENT MASONRY TO THE SATISFACTION OF THE ENGINEER.

ARCHITECTURAL TREATMENT

ARCHITECTURAL TREATMENT SHOWN ON FASCIA SIDE OF EXTERIOR PARAPETS ARE FOR BIDDING PURPOSES ONLY. PARAPET ARCHITECTURAL TREATMENT SHALL MATCH EXISTING STONE MASONRY FACING AT THE ABUTMENTS IN PATTERN AND COLOR. A SAMPLE PANEL, 2'-0"x2'-0" AND A MAXIMUM OF 2" THICK, SHALL BE PREPARED AND DELIVERED TO THE ENGINEER FOR APPROVAL. APPROVAL OF THE SAMPLE PANEL BY THE ENGINEER IS REQUIRED BEFORE ANY WORK INVOLVING THE ARCHITECTURAL TREATMENT BEGINS.

SAMPLE PANEL, 2'-0"x2'-0" AND A MAXIMUM OF 2" THICK, FOR ARCHITECTURAL TREATMENT SHOWN ON PIER ELEVATIONS SHALL BE PREPARED AND DELIVERED TO THE ENGINEER FOR APPROVAL. NO STAINING SHALL BE REQUIRED WITH THE PIER ARCHITECTURAL TREATMENT. APPROVAL OF THE SAMPLE PANEL BY THE ENGINEER IS REQUIRED BEFORE ANY WORK INVOLVING THE ARCHITECTURAL TREATMENT BEGINS.

9/12/2013 U:\202603\049\012 Rock Creek Trail\TRANS\CADD\Sheet Files\pBR-0002.rct.dgn

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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

DATE: 09-13-2013

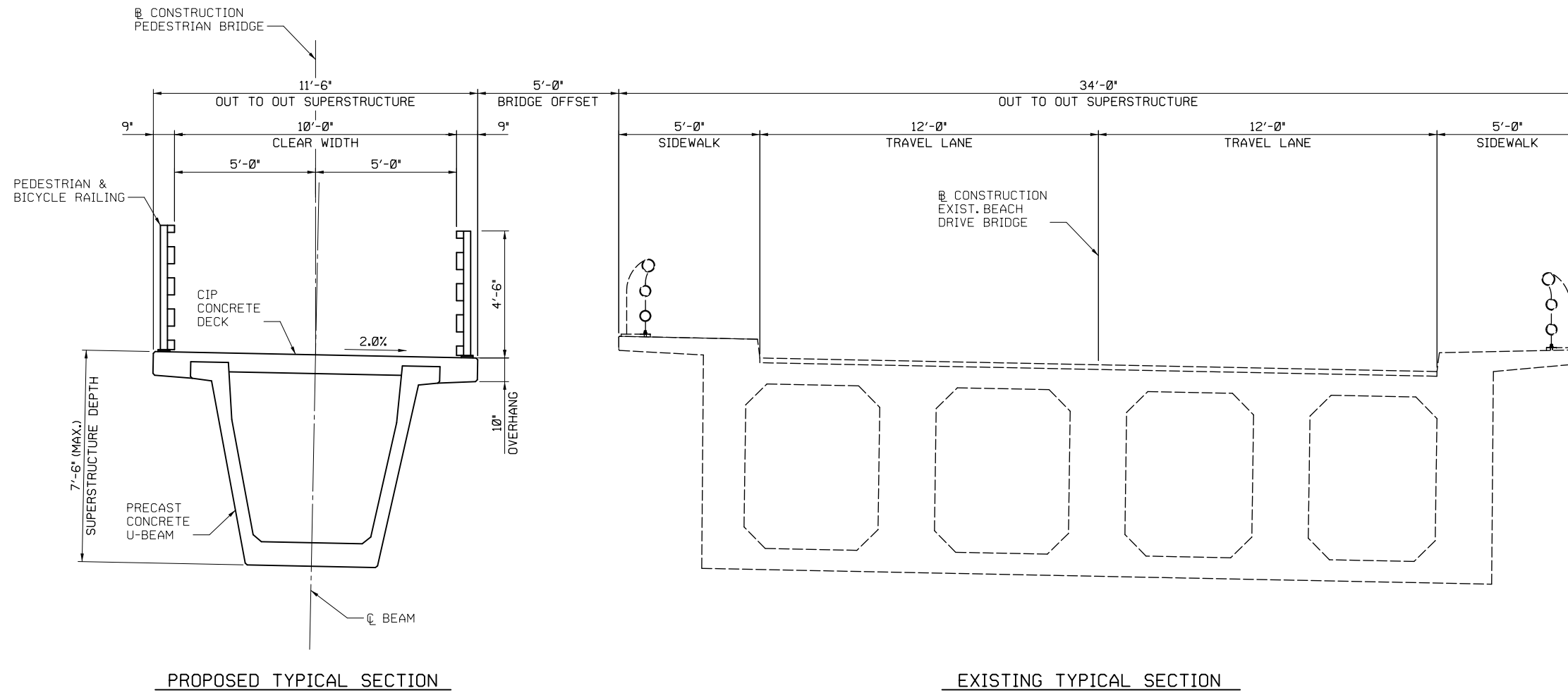
SCALE: AS SHOWN

BR-02

DIVISION CHIEF

STRUCTURAL GENERAL NOTES

DATE _____
FILE _____
SHEET 103 OF 124



TYPICAL SECTION
SCALE: 1/2" = 1'-0"

9/12/2013 U:\202603049\012 Rock Creek Park Trail\TRANS\CADD\Sheet Files\pBR-0003.rct.dgn

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NO.	DESCRIPTION	NAME	DATE
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D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

DATE: 09-13-2013

SCALE: AS SHOWN

BR-03

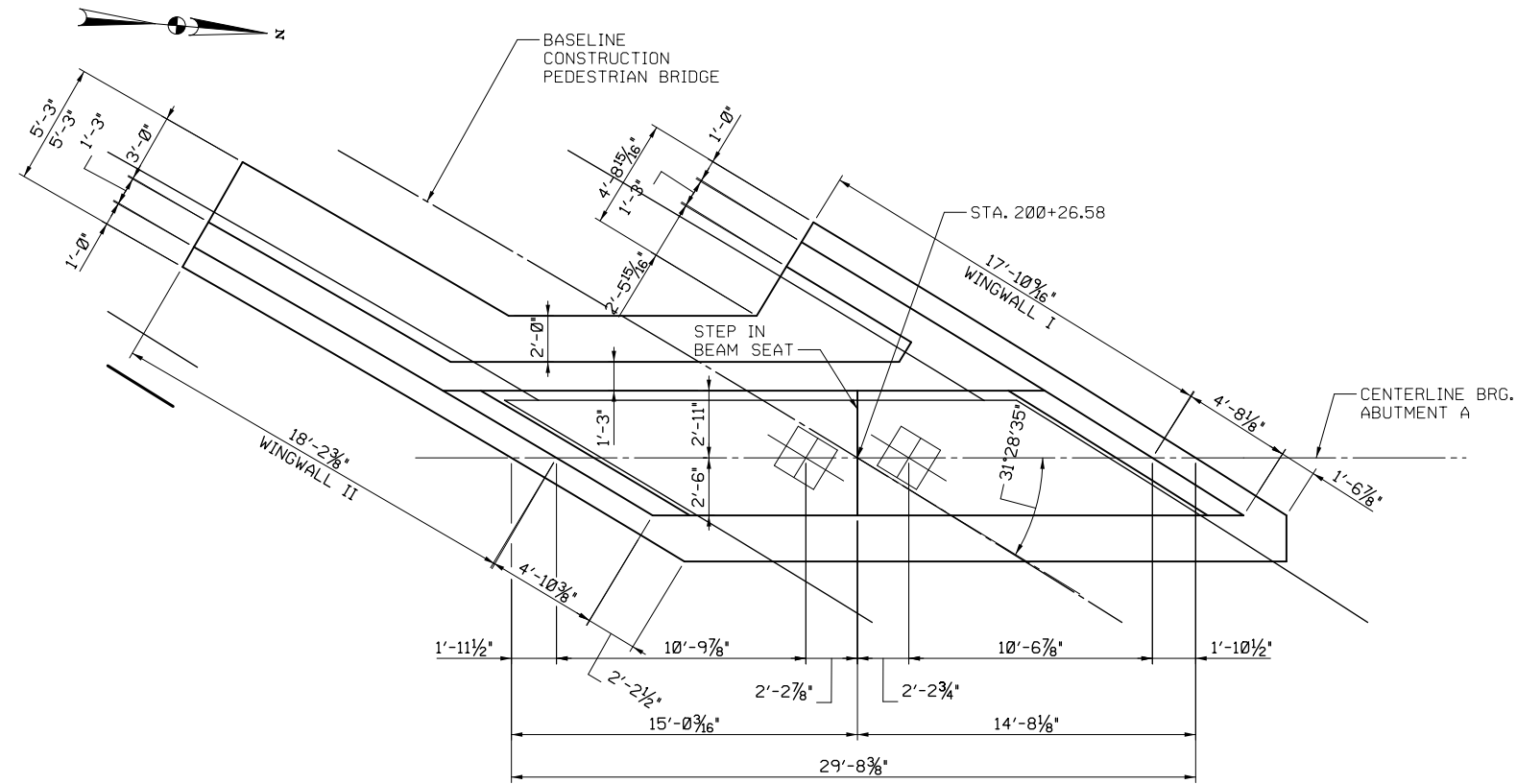
TYPICAL SECTION

DIVISION CHIEF

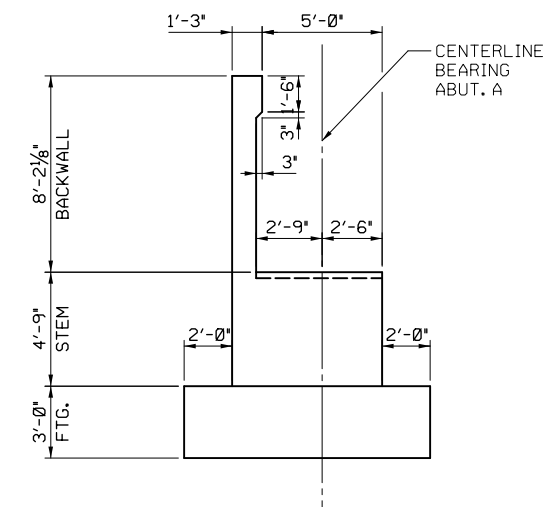
DATE _____

FILE _____

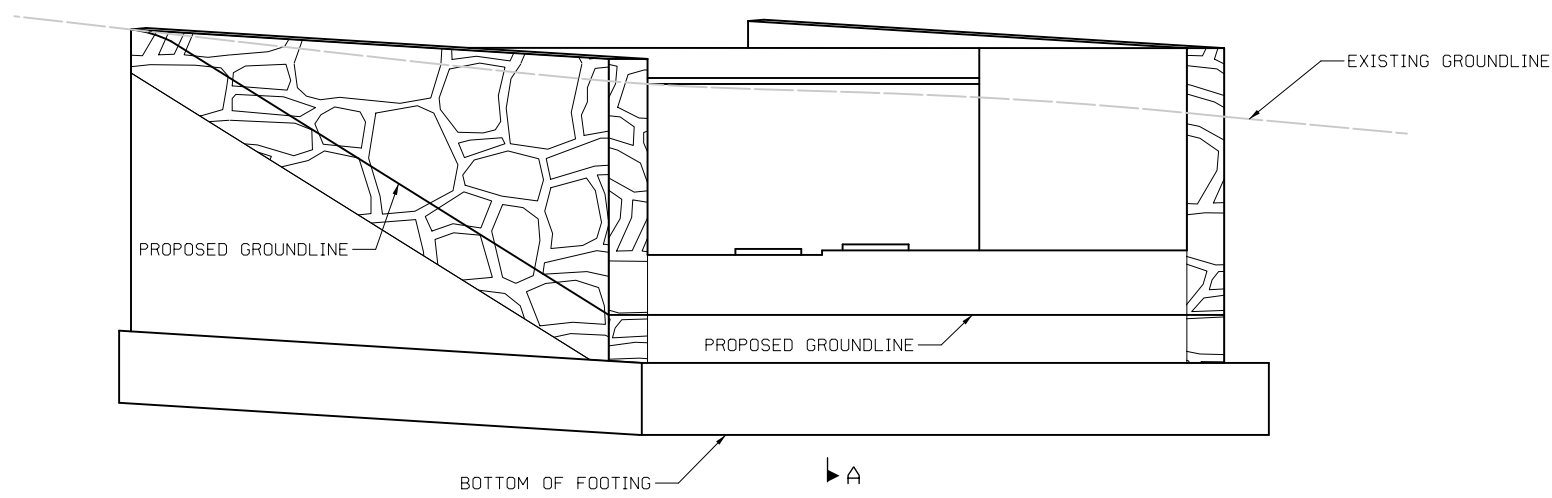
SHEET 104 OF 124



ABUTMENT A - PLAN
SCALE: 1/4" = 1'-0"



ABUTMENT A - TYPICAL SECTION
SCALE: 1/4" = 1'-0"



ABUTMENT A - ELEVATION
SCALE: 1/4" = 1'-0"

DATUM
EL. 15.00

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INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

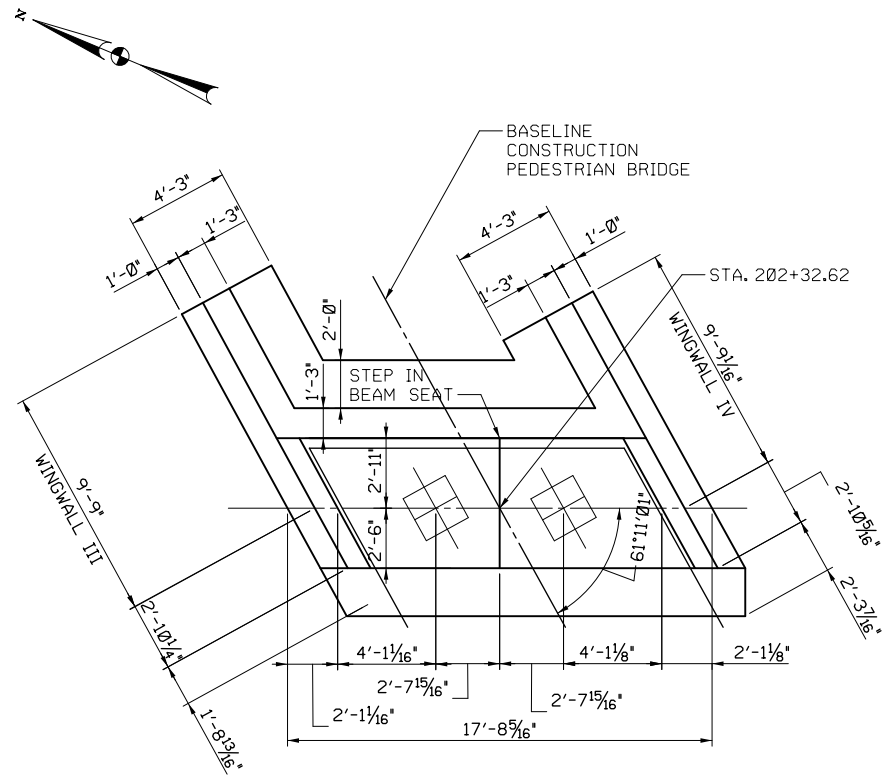
DATE: 09-13-2013

SCALE: AS SHOWN

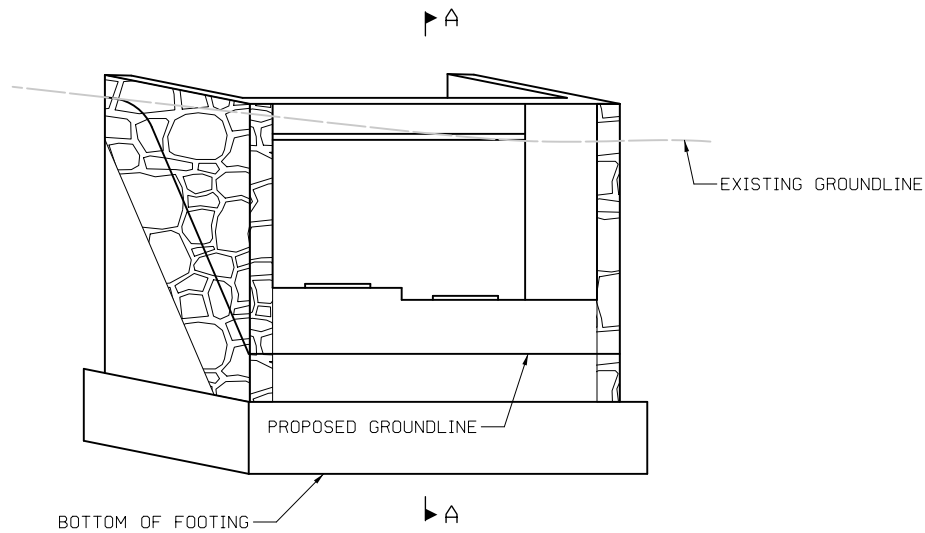
BR-04

ABUTMENT A - PLAN AND ELEVATION

DIVISION CHIEF
DATE _____
FILE _____
SHEET 105 OF 124

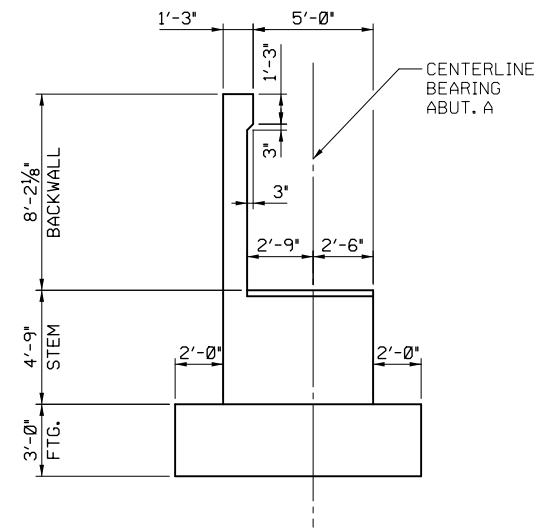


ABUTMENT B - PLAN
SCALE: 1/4" = 1'-0"



DATUM
EL. 20.00

ABUTMENT B - ELEVATION
SCALE: 1/4" = 1'-0"



SECTION A-A
SCALE: 1/4" = 1'-0"

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D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

DATE: 09-13-2013

SCALE: AS SHOWN

BR-05

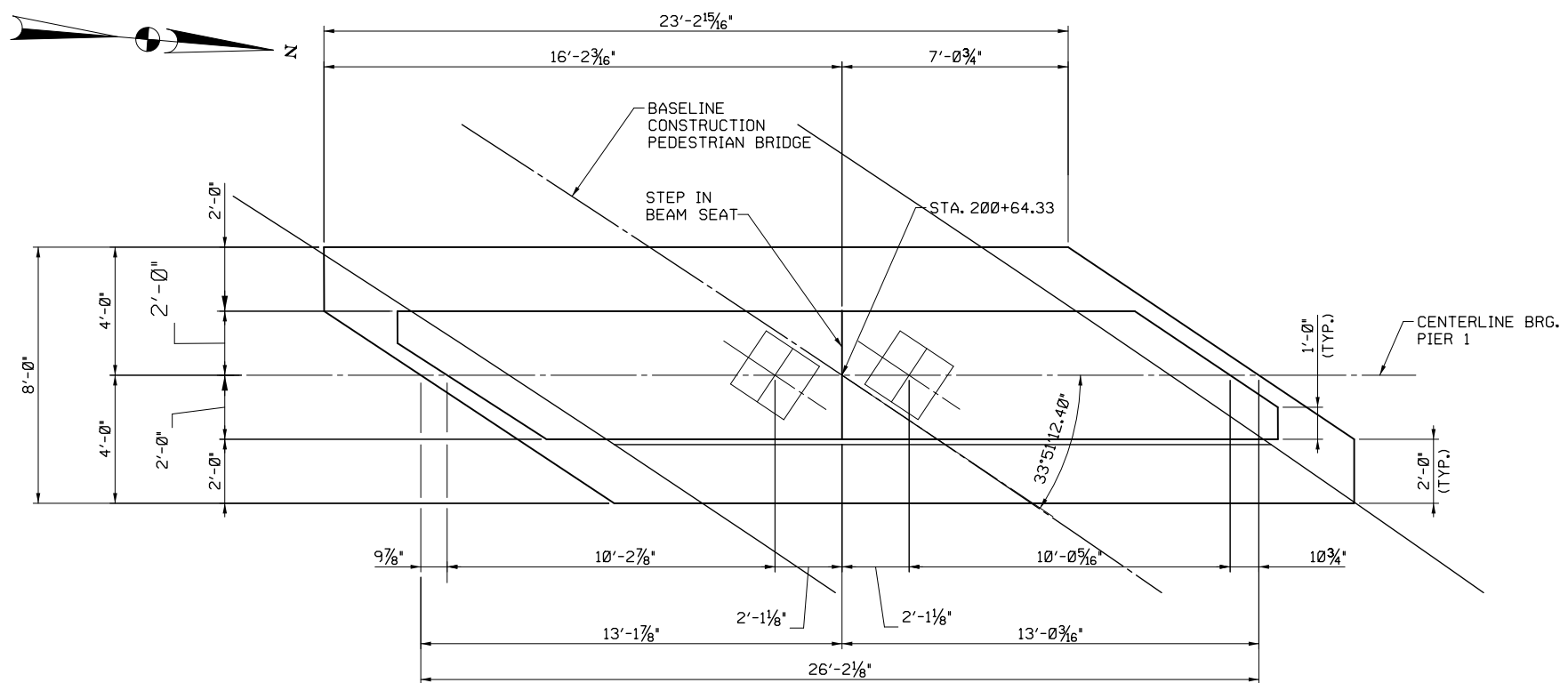
ABUTMENT B - PLAN AND ELEVATION

DIVISION CHIEF

DATE _____

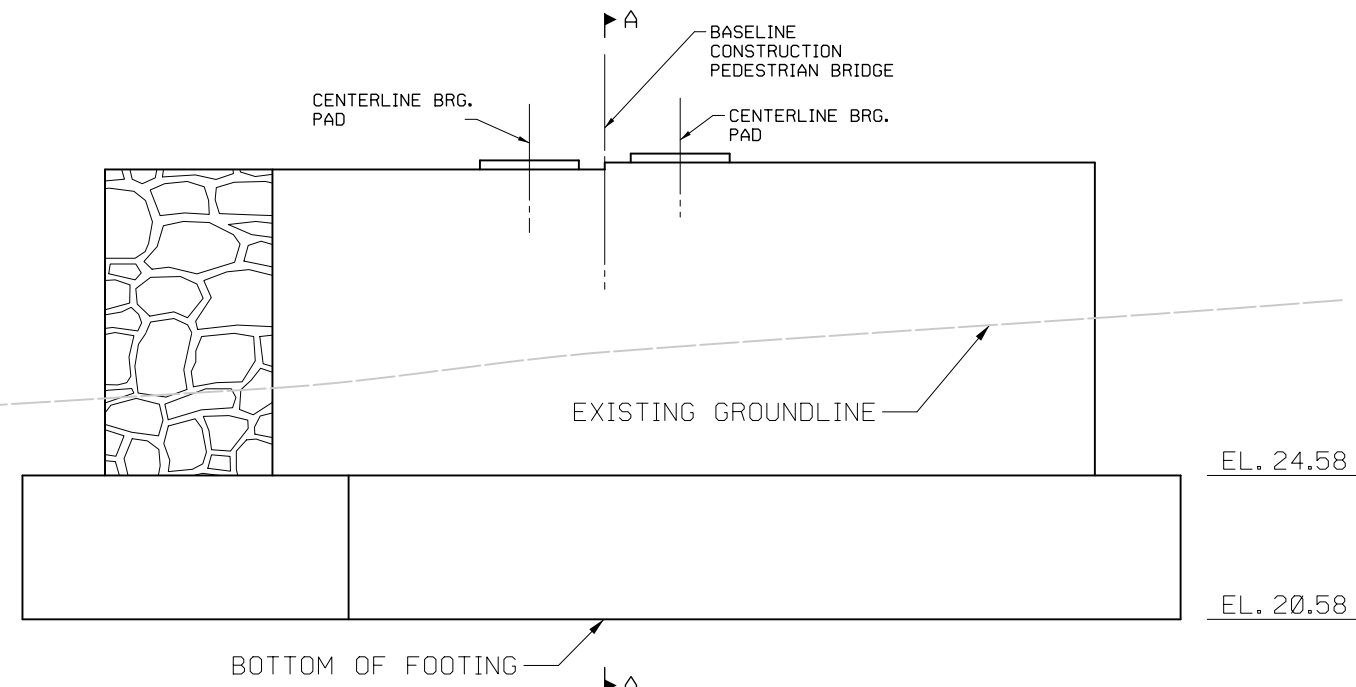
FILE _____

SHEET 106 OF 124



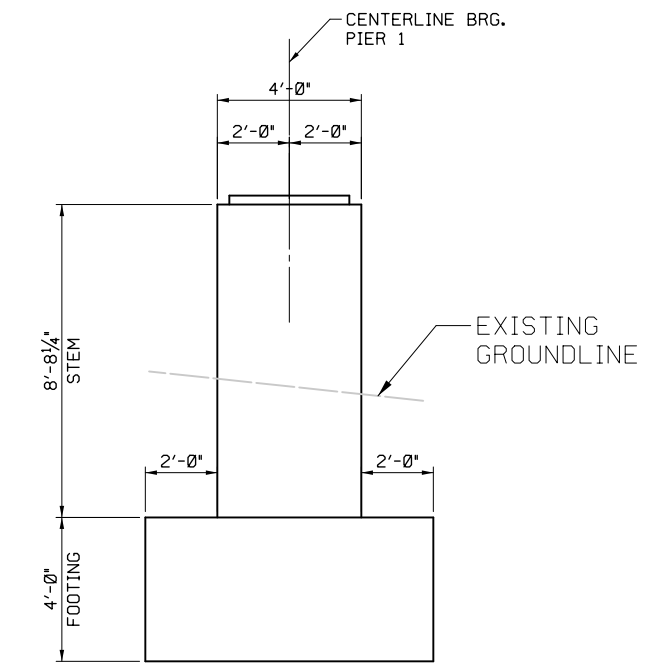
PLAN

SCALE: 3/8" = 1'-0"



ELEVATION

SCALE: 3/8" = 1'-0"



PIER - TYPICAL SECTION

SCALE: 3/8" = 1'-0"

DATUM
EL. 18.00

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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

DATE: 09-13-2013

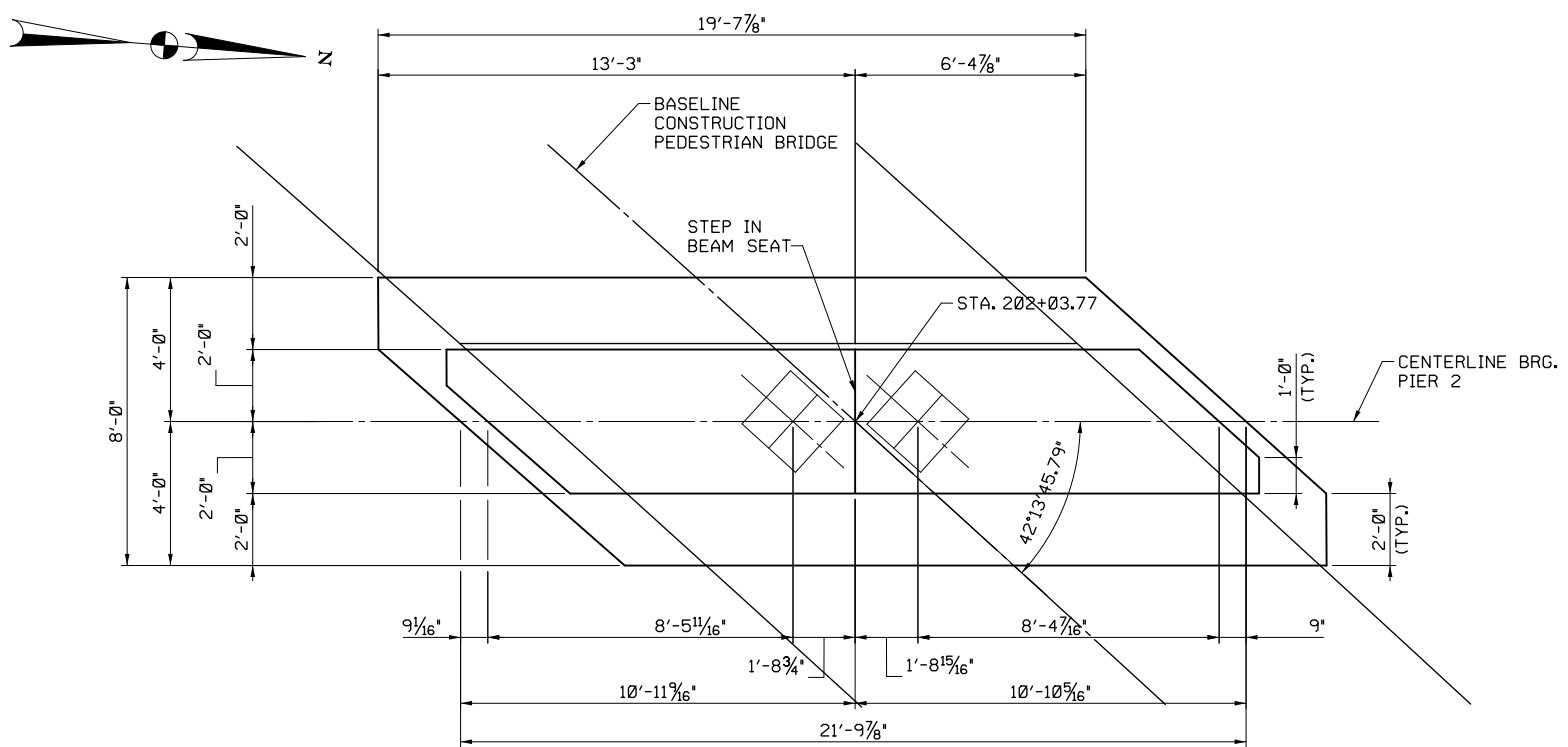
SCALE: AS SHOWN

BR-06

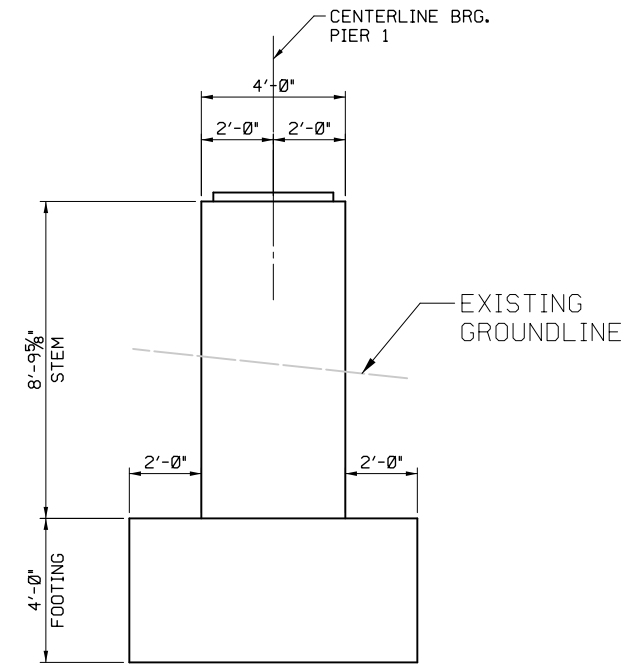
PIER 1 - PLAN AND ELEVATION

DIVISION CHIEF
DATE _____
FILE _____
SHEET 107 OF 124

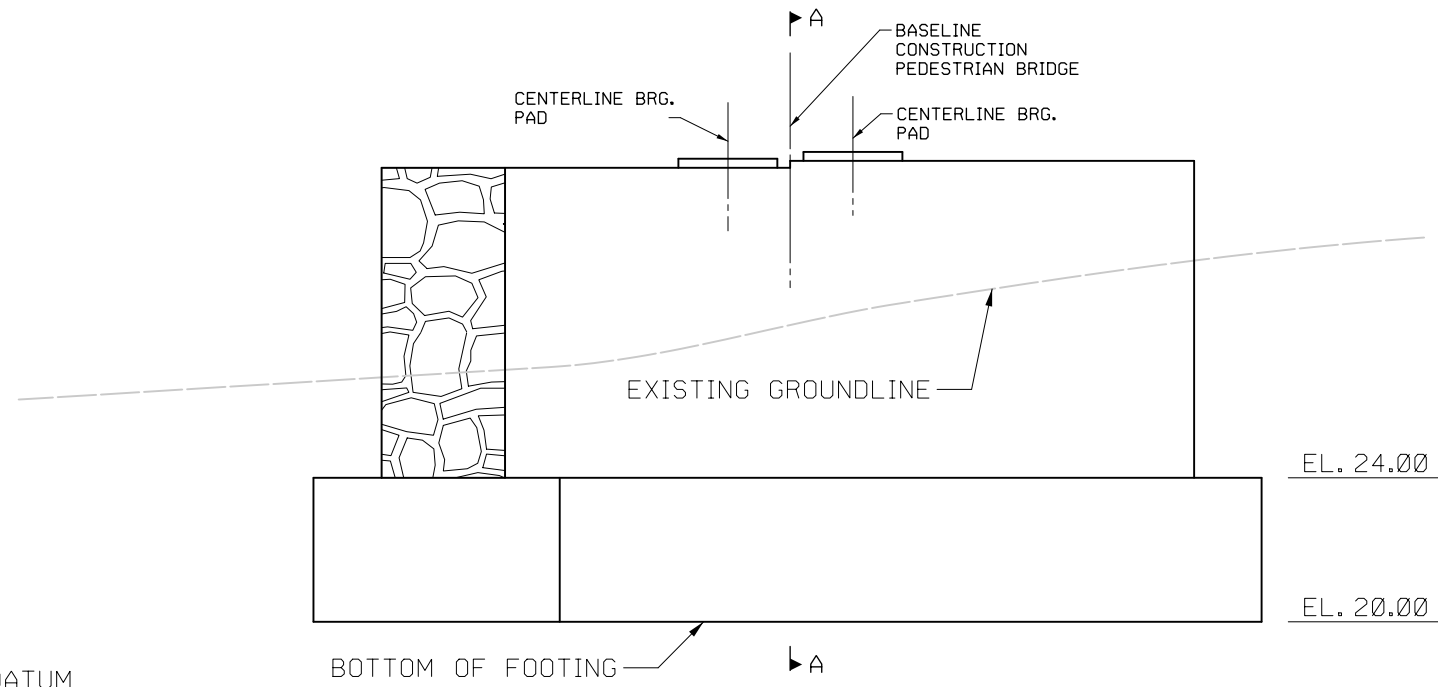
9/12/2013 U:\202603\049\012 Rock Creek Park Trail\TRANS\CADD\Sheet Files\pBR-0006.rct.dgn



PLAN
SCALE: 3/8" = 1'-0"



PIER - TYPICAL SECTION
SCALE: 3/8" = 1'-0"



ELEVATION
SCALE: 3/8" = 1'-0"

DATUM
EL. 18.00

BOTTOM OF FOOTING

9/12/2013 U:\202603\049\012 Rock Creek Park Trail\TRANS\CADD\Sheet Files\pBR-0007.rct.dgn

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NO.	DESCRIPTION	NAME	DATE

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

DATE: 09-13-2013	SCALE: AS SHOWN	BR-07
PIER 2 - PLAN AND ELEVATION		DIVISION CHIEF
		DATE _____
		FILE _____
		SHEET 108 OF 124

STORM WATER MANAGEMENT NOTES

- THE SITES FOR SWM FACILITIES SHOWN IN THESE PLANS WERE CHOSEN BASED ON INFORMATION PROVIDED IN THE ROCK CREEK WATERSHED IMPLEMENTATION PLAN - APPENDIX C: LOW IMPACT DEVELOPMENT RESTORATION SITES (AUGUST 2010, DISTRICT DEPARTMENT OF THE ENVIRONMENT - WATER PROTECTION DIVISION).
- REFER TO GEOTECHNICAL REPORT FOR INFORMATION ABOUT WATER TABLE DEPTH, BEDROCK DEPTH, INFILTRATION RATES, AND HYDROLOGIC SOIL TYPES.
- LID SITES SHALL BE PROTECTED FROM SILT AND DEBRIS UNTIL THE CONTRIBUTING DRAINAGE AREAS HAVE BEEN PERMANENTLY STABILIZED.

PROJECT SITE INFORMATION

TOTAL AREA XXXX SF = XXXX ACRE	TOTAL IMPERVIOUS AREA (WITHIN LIMIT OF DISTURBANCE) EXISTING (SF) = XXXX EXISTING REMOVAL (SF) = XXXX PROPOSED (SF) = XXXX NET (SF) = XXXX
TOTAL LENGTH OF TRAIL IMPROVEMENTS XXXX LF = XXXX MI	
TOTAL AREA WITHIN LIMIT OF DISTURBANCE XXXX SF = XXXX ACRE	TOTAL CUT / FILL CUT = XXXX FILL = XXXX PAVEMENT REMOVAL = XXXX

DDOE STORMWATER MANAGEMENT GUIDEBOOK (2012 DRAFT) CRITERIA/CALCULATIONS:

$$SWR_v = \frac{[P \times ((R_{vI} \times \%I) + (R_{vC} \times \%C) + (R_{vN} \times \%N)) \times SA]}{7.48/12}$$

Where:

- SWR_v = volume, in gallons, required to be retained onsite
- P = 90th percentile rainfall event for the District (1.2")
- R_{vI} = 0.95 (runoff coefficient for impervious cover)
- R_{vC} = 0.25 (runoff coefficient for compacted cover)
- R_{vN} = 0.00 (runoff coefficient for natural cover)
- %I = percent of site in impervious cover (decimal)
- %C = percent of site in compacted cover (decimal)
- %N = percent of site in natural cover (decimal)
- SA = surface area in square feet
- 7.48 = conversion factor, converting cubic feet to gallons
- 12 = conversion factor, converting inches to feet

$$S_{v\ practice} = SA_{bottom} \times [(d_{media} \times \eta_{media}) + (d_{gravel} \times \eta_{gravel})] + (SA_{average} \times d_{ponding})$$

Where:

- S_{v practice} = total storage volume of practice (cu. ft.)
- SA_{bottom} = bottom surface area of practice (sq. ft.)
- d_{media} = depth of the filter media (ft)
- η_{media} = effective porosity of the filter media (typically 0.25)
- d_{gravel} = depth of the underdrain and underground storage gravel layer (ft)
- η_{gravel} = effective porosity of the gravel layer (typically 0.4)
- SA_{average} = the average surface area of the practice (sq. ft.) typically = 1/2 x (top area plus the bottom (SA_{bottom}) area)
- d_{ponding} = the maximum ponding depth of the practice (ft.)

STATEMENT BY PERSON RESPONSIBLE FOR MAINTENANCE

THE UNDERSIGNED AGREES TO MAINTAIN AND OPERATE THE DISCHARGE FACILITIES IN SUCH A MANNER AS TO COMPLY WITH THE PROVISIONS OF SECTION 526 THROUGH 535 OF DCMR-21, CHAPTER 5. RESPONSIBILITY FOR MAINTENANCE AND OPERATION MAY BE TRANSFERRED TO ANOTHER ENTITY UPON WRITTEN NOTICE TO THE WATERSHED PROTECTION DIVISION OF THE DISTRICT DEPARTMENT OF THE ENVIRONMENT FROM THE UNDERSIGNED AND THE ENTITY ASSUMING RESPONSIBILITY, CERTIFYING THAT THE TRANSFER OF RESPONSIBILITY FOR MAINTENANCE AND OPERATION IN COMPLIANCE WITH SECTION 526 THROUGH 535 OF DCMR-21, CHAPTER 5 HAS BEEN ACCEPTED.

SIGNATURE OF THE PERSON RESPONSIBLE FOR MAINTENANCE (IT MAY BE THE APPLICANT)

NAME AND TITLE (PLEASE TYPE)

ADDRESS

DATE

PHONE NO

STATEMENT BY PROFESSIONAL ENGINEER REGISTERED IN THE DISTRICT OF COLUMBIA

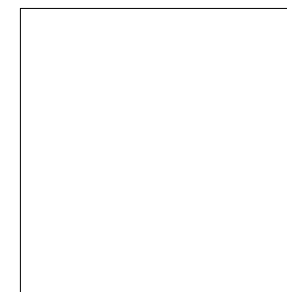
THIS IS TO CERTIFY THAT THE ENGINEERING FEATURES OF THIS STORMWATER DISCHARGE FACILITY HAVE BEEN DESIGNED / EXAMINED BY ME AND FOUND TO BE IN CONFORMITY WITH MODERN ENGINEERING PRINCIPLES APPLICABLE TO THE TREATMENT AND DISPOSAL OF STORMWATER POLLUTANTS. I FURTHER CERTIFY THAT THE FACILITY HAS BEEN DESIGNED IN ACCORDANCE WITH THE SPECIFICATION REQUIRED UNDER SECTION 526 THROUGH 535 OF DCMR-21, CHAPTER 5. IT IS ALSO STATED THAT THE UNDERSIGNED HAS FURNISHED THE APPLICANT WITH A SET OF INSTRUCTIONS FOR THE MAINTENANCE AND OPERATION OF THE STORMWATER DISCHARGE FACILITY.

NAME AND TITLE (PLEASE TYPE)

ADDRESS

DATE

PHONE NO



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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

DATE: 09-13-2013	SCALE: N / A	SW-01
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		
ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
STORM WATER MANAGEMENT NOTES		DIVISION CHIEF _____ DATE _____ FILE _____ SHEET 109 OF 124

LID SITE INFORMATION

NOTE: POTENTIAL LID SITES WERE CHOSEN BASED ON THE ROCK CREEK WATERSHED IMPLEMENTATION PLAN.

PROJECT NUMBER: RC.LID.130
 SITE LOCATION: PARKLAND- ARKANSAS AVENUE NW AND PINEY BRANCH PARKWAY NW
 FACILITY TYPE: BI-5 BIORETENTION - ENHANCED, 0-2 DRY SWALE
 ADC MAP LOCATION: 5408.E10
 OWNERSHIP: NPS
 DESCRIPTION OF EXISTING CONDITION: LARGE GRASSY OPEN FIELD ADJACENT TO ARKANSAS AVENUE NW AND PINEY BRANCH PARKWAY
 PROJECT DESCRIPTION: INSTALLATION OF BIORETENTION AND DRY SWALE TO TAKE RUNOFF FROM PINEY BRANCH PARKWAY AND ARKANSAS AVENUE NW, REFORESTATION.

SITE DATA:		AREA (SF)	%	Rv	TSS (mg/L)
TOTAL DRAINAGE AREA, SA:	XXXX	--	--	--	--
TOTAL NATURAL COVER, N:	XXXX	XXXX	0	49	
TOTAL COMPACTED COVER, C:	XXXX	XXXX	0.25	--	
LAWN:	XXXX			602	
LANDSCAPING:	XXXX			37	
TOTAL IMPERVIOUS COVER, I:	XXXX	XXXX	0.95	--	
ROOFTOP:	XXXX			15	
RES/COMM PARKING LOT:	XXXX			27	
INDUSTRIAL PARKING LOT:	XXXX			228	
DRIVEWAY/SIDEWALK/STREET:	XXXX			173	
COMMERCIAL STREET:	XXXX			468	
BMP/LID:	XXXX			0	

FIGURE 1 - LOOKING WEST FROM PINEY BRANCH PARKWAY & ARKANSAS AVE NW INTERSECTION



CALCULATIONS

COMPLIANCE CALCULATIONS: STORM WATER RETENTION VOLUME, SWRV (GAL): XXXX

$$SWRV = \frac{[P \times ((Rv1 \times \%I) + (Rvc \times \%C) + (RvN \times \%N)) \times SA]}{7.48/12}$$
 WHERE, DESIGN STORM P = 1.2 INCHES, SA = TOTAL DRAINAGE AREA (SF)
 STORAGE VOLUME, Sv (CF): XXXX

$$Sv_{practise} = SA_{bottom} \times [(d_{media} \times \eta_{media}) + (d_{gravel} \times \eta_{gravel})] + (SA_{average} \times d_{ponding})$$
 WHERE, d = DEPTH (FT), n = EFFECTIVE POROSITY, SA = SURFACE AREA (SF)
 RETENTION VALUE = 100% of Sv
 VOLUME RETAINED (CF, GAL): XXXX
 RETENTION VOLUME REMAINING (CF, GAL): XXXX
 PERCENT OF SWRV RETAINED: XXXX
 POLLUTANT REMOVAL: TOTAL SUSPENDED SOLIDS (TSS) LOAD (LB): XXXX
 TSS REMOVED (LB): XXXX

INFILTRATION TEST RESULTS

TEST LOCATION	DEPTH	VISUAL INSPECTION	USDA CLASSIFICATION	INFILTRATION RATE (IN/HR)
SW-02	4.00	CLAYEY SAND	SANDY LOAM	0.30
SW-03	4.10	CLAYEY SAND	SANDY LOAM	10.35
SW-04	8.60	SILTY SAND WITH GRAVEL	LOAM	14.85

DDOT STANDARD DRAWING NUMBERS

STD. DWG. NO.	DESCRIPTION	REMARKS
630.02	BIOSWALE ADJACENT TO ROADWAY	
609J1	CURB CUT WITH SPLASH BLOCK	
602J2	ROCK CHECK DAM	CHECK DAM SPACING = 40'

DATE: 09-13-2013	SCALE: N / A	SW-02
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		
ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
STORM WATER MANAGEMENT NOTES		DIVISION CHIEF _____ DATE _____ FILE _____ SHEET 110 OF 124

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 www.stantec.com

NO.	DESCRIPTION	NAME	DATE
REVISIONS			

LID SITE INFORMATION

NOTE: POTENTIAL LID SITES WERE CHOSEN BASED ON THE ROCK CREEK WATERSHED IMPLEMENTATION PLAN.

PROJECT NUMBER: RC.LID.354
 SITE LOCATION: BEACH DRIVE NW - BROAD BRANCH ROAD TO KLINGLE RUN
 FACILITY TYPE: BI-5 BIORETENTION - ENHANCED
 ADC MAP LOCATION: 5408_C9&B10
 OWNERSHIP: NPS
 DESCRIPTION OF EXISTING CONDITION: TWO LANE ROAD ADJACENT TO ROCK CREEK. ROAD HAS CURB AND GUTTER WITH DRAINAGE CULVERTS THAT DRAIN DIRECTLY INTO ROCK CREEK. SOME PARKING PULLOUTS ALONG BEACH DRIVE AND NEAR PIERCE MILL.
 PROJECT DESCRIPTION: INSTALL BIORETENTION CELLS AND/OR BIOSWALES FOR LENGTH OF ROAD TO RETAIN AND DETAIN STORM WATER FROM ROADWAY, BIORETENTION AT PARKING PULLOUTS.

SITE DATA:

	AREA (SF)	%	Rv	TSS (mg/L)
TOTAL DRAINAGE AREA, SA:	XXXX	--	--	--
TOTAL NATURAL COVER, N:	XXXX	XXXX	0	49
TOTAL COMPACTED COVER, C:	XXXX	XXXX	0.25	--
LAWN:	XXXX			602
LANDSCAPING:	XXXX			37
TOTAL IMPERVIOUS COVER, I:	XXXX	XXXX	0.95	--
ROOFTOP:	XXXX			15
RES/COMM PARKING LOT:	XXXX			27
INDUSTRIAL PARKING LOT:	XXXX			228
DRIVEWAY/SIDEWALK/STREET:	XXXX			173
COMMERCIAL STREET:	XXXX			468
BMP/LID:	XXXX			0

CALCULATIONS

COMPLIANCE CALCULATIONS: STORM WATER RETENTION VOLUME, SWRV (GAL): XXXX

$$SWRV = \frac{P \times [(Rv_1 \times \%I) + (Rv_C \times \%C) + (Rv_N \times \%N)] \times SA}{7.48/12}$$

WHERE, DESIGN STORM P = 1.2 INCHES, SA = TOTAL DRAINAGE AREA (SF)

STORAGE VOLUME, Sv (CF): XXXX

$$Sv_{practise} = SA_{bottom} \times [(d_{media} \times \eta_{media}) + (d_{gravel} \times \eta_{gravel})] + (SA_{average} \times d_{ponding})$$

WHERE, d = DEPTH (FT), n = EFFECTIVE POROSITY, SA = SURFACE AREA (SF)

RETENTION VALLE = 100% of Sv

VOLUME RETAINED (CF, GAL): XXXX
 RETENTION VOLUME REMAINING (CF, GAL): XXXX
 PERCENT OF SWRV RETAINED: XXXX

POLLUTANT REMOVAL: TOTAL SUSPENDED SOLIDS (TSS) LOAD (LB): XXXX
 TSS REMOVED (LB): XXXX

INFILTRATION TEST RESULTS

TEST LOCATION	DEPTH	VISUAL INSPECTION	USDA CLASSIFICATION	INFILTRATION RATE (IN/HR)
SW-01	3.95	SILTY GRAVEL WITH SAND	SANDY LOAM	0.30

DDOT STANDARD DRAWING NUMBERS

STD. DWG.	DESCRIPTION	REMARKS
630.01	BIORETENTION IN OPEN AREA	

FIGURE 1 - LOOKING WEST TOWARD KLINGLE RD & PORTER ST NW INTERCHANGE

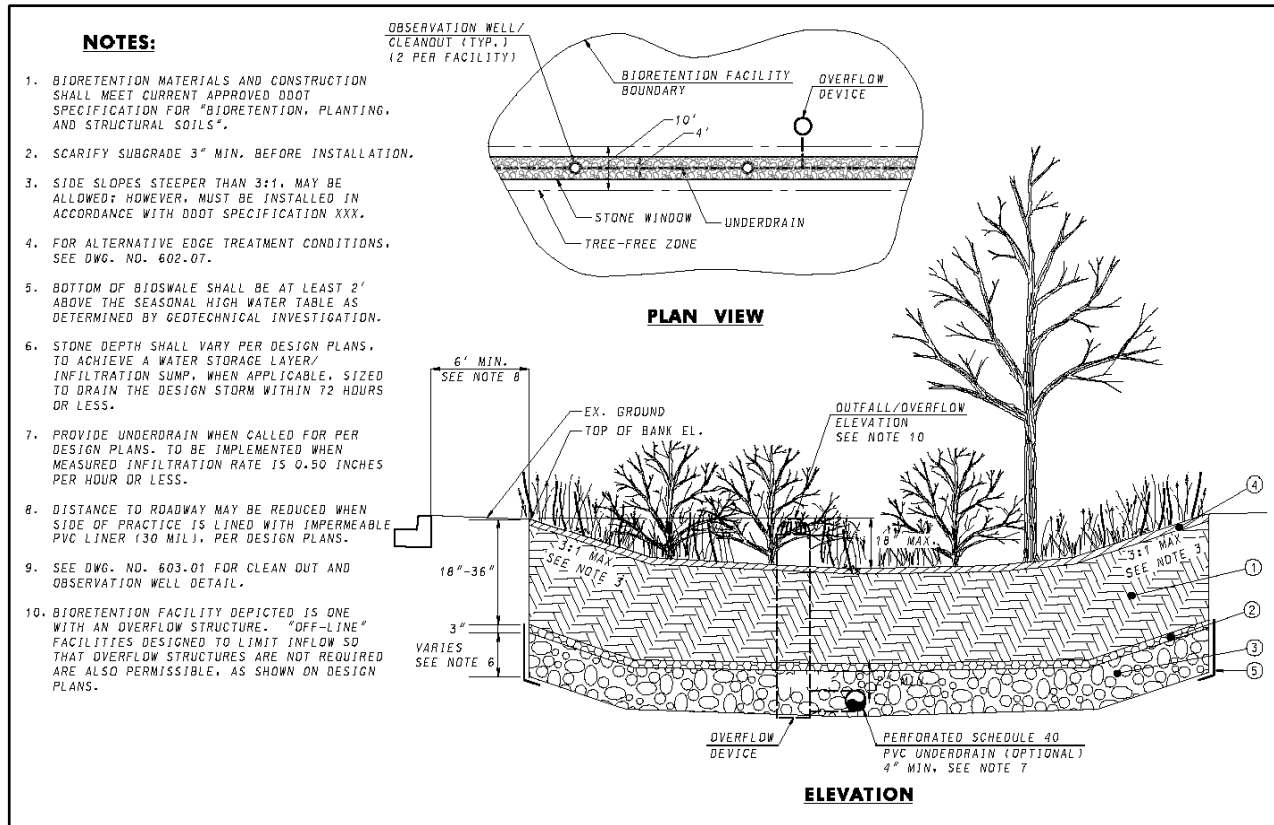


NOT FOR CONSTRUCTION



NO.	DESCRIPTION	NAME	DATE

DATE: 09-13-2013	SCALE: N / A	SW-03
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		
ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
STORM WATER MANAGEMENT NOTES		DIVISION CHIEF _____ DATE _____ FILE _____ SHEET 111 OF 124



NOTES:

- BIORETENTION MATERIALS AND CONSTRUCTION SHALL MEET CURRENT APPROVED DDOT SPECIFICATION FOR "BIORETENTION, PLANTING, AND STRUCTURAL SOILS".
- SCARIFY SUBGRADE 3" MIN. BEFORE INSTALLATION.
- SIDE SLOPES STEEPER THAN 3:1, MAY BE ALLOWED; HOWEVER, MUST BE INSTALLED IN ACCORDANCE WITH DDOT SPECIFICATION XXX.
- FOR ALTERNATIVE EDGE TREATMENT CONDITIONS, SEE DWG. NO. 602-07.
- BOTTOM OF BIOSWALE SHALL BE AT LEAST 2' ABOVE THE SEASONAL HIGH WATER TABLE AS DETERMINED BY GEOTECHNICAL INVESTIGATION.
- STONE DEPTH SHALL VARY PER DESIGN PLANS, TO ACHIEVE A WATER STORAGE LAYER/ INFILTRATION SUMP, WHEN APPLICABLE, SIZED TO DRAIN THE DESIGN STORM WITHIN 72 HOURS OR LESS.
- PROVIDE UNDERDRAIN WHEN CALLED FOR PER DESIGN PLANS. TO BE IMPLEMENTED WHEN MEASURED INFILTRATION RATE IS 0.50 INCHES PER HOUR OR LESS.
- DISTANCE TO ROADWAY MAY BE REDUCED WHEN SIDE OF PRACTICE IS LINED WITH IMPERMEABLE PVC LINER (30 MIL), PER DESIGN PLANS.
- SEE DWG. NO. 603-01 FOR CLEAN OUT AND OBSERVATION WELL DETAIL.
- BIORETENTION FACILITY DEPICTED IS ONE WITH AN OVERFLOW STRUCTURE. "OFF-LINE" FACILITIES DESIGNED TO LIMIT INFLOW SO THAT OVERFLOW STRUCTURES ARE NOT REQUIRED ARE ALSO PERMISSIBLE, AS SHOWN ON DESIGN PLANS.

LEGEND:

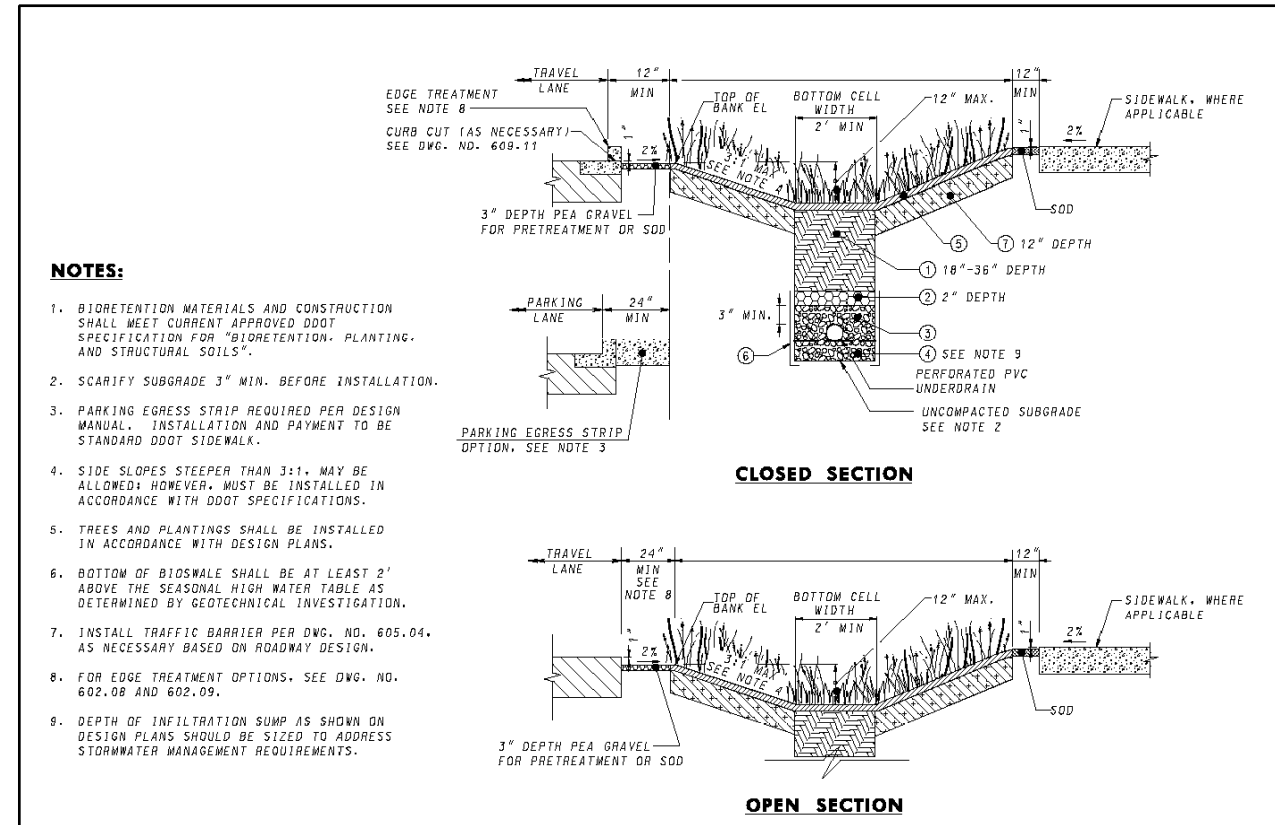
① BIORETENTION SOIL	④ MULCH
② CHOKER LAYER, AASHTO #8 STONE	⑤ GEOTEXTILE, CLASS 2
③ AASHTO #57 STONE, DOUBLE WASHED	

RECOMMENDED:	DEPUTY CHIEF ENGINEER
DATE	APPR.
REVISED	APPROVED:
ISSUED:	REFERENCE: CHIEF TRANSPORTATION ENGINEER

BIORETENTION IN OPEN AREA

DRAFT Feb 28 2013

DISTRICT OF COLUMBIA
 DEPARTMENT OF TRANSPORTATION
 DWG. NO. 630.01



NOTES:

- BIORETENTION MATERIALS AND CONSTRUCTION SHALL MEET CURRENT APPROVED DDOT SPECIFICATION FOR "BIORETENTION, PLANTING, AND STRUCTURAL SOILS".
- SCARIFY SUBGRADE 3" MIN. BEFORE INSTALLATION.
- PARKING EGRESS STRIP REQUIRED PER DESIGN MANUAL. INSTALLATION AND PAYMENT TO BE STANDARD DDOT SIDEWALK.
- SIDE SLOPES STEEPER THAN 3:1, MAY BE ALLOWED; HOWEVER, MUST BE INSTALLED IN ACCORDANCE WITH DDOT SPECIFICATIONS.
- TREES AND PLANTINGS SHALL BE INSTALLED IN ACCORDANCE WITH DESIGN PLANS.
- BOTTOM OF BIOSWALE SHALL BE AT LEAST 2' ABOVE THE SEASONAL HIGH WATER TABLE AS DETERMINED BY GEOTECHNICAL INVESTIGATION.
- INSTALL TRAFFIC BARRIER PER DWG. NO. 605.04, AS NECESSARY BASED ON ROADWAY DESIGN.
- FOR EDGE TREATMENT OPTIONS, SEE DWG. NO. 602.08 AND 602.09.
- DEPTH OF INFILTRATION SUMP AS SHOWN ON DESIGN PLANS SHOULD BE SIZED TO ADDRESS STORMWATER MANAGEMENT REQUIREMENTS.

LEGEND:

① BIORETENTION SOIL	④ INFILTRATION SUMP, AASHTO #57 STONE, DOUBLE WASHED	⑦ PLANT BED SOIL
② CHOKER LAYER, AASHTO #8 STONE	⑤ MULCH	
③ AASHTO #57 STONE, DOUBLE WASHED	⑥ GEOTEXTILE	

RECOMMENDED:	DEPUTY CHIEF ENGINEER
DATE	APPR.
REVISED	APPROVED:
ISSUED:	REFERENCE: CHIEF TRANSPORTATION ENGINEER

BIOSWALE ADJACENT TO ROADWAY

DRAFT Feb 28 2013

DISTRICT OF COLUMBIA
 DEPARTMENT OF TRANSPORTATION
 DWG. NO. 630.02

NOT FOR CONSTRUCTION

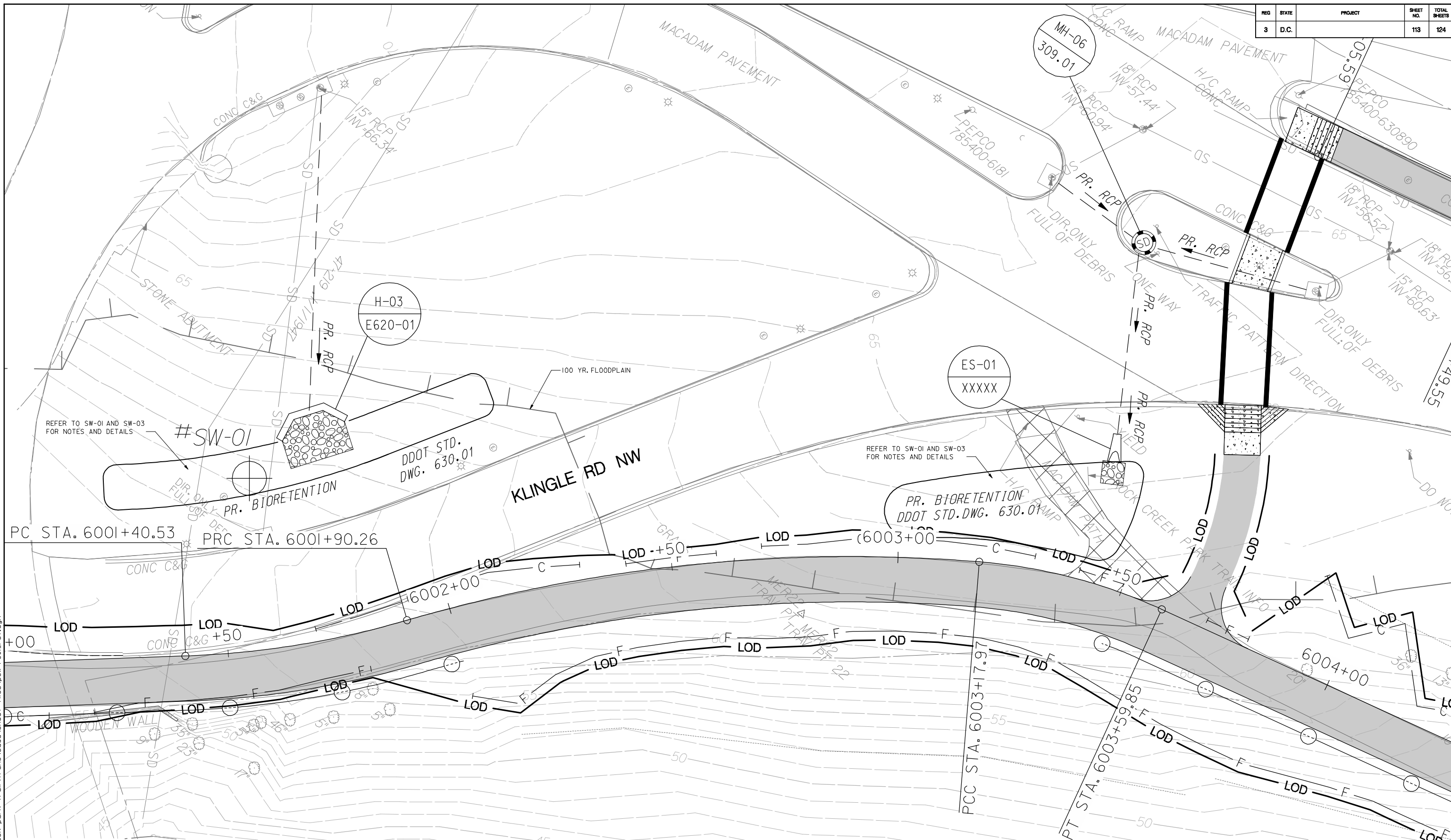


NO.	DESCRIPTION	NAME	DATE
REVISIONS			

DATE: 09-13-2013	SCALE: N / A	SW-04
D.C. DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION PROJECT MANAGEMENT DIVISION		
ROCK CREEK PARK MULTI-USE TRAIL REHABILITATION 30% DESIGN SUBMITTAL		PROJECT ENG. _____ DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____ PROJECT MGR. _____
STORM WATER MANAGEMENT DETAILS		DIVISION CHIEF _____ DATE _____ FILE _____ SHEET 112 OF 124

Thursday, September 12, 2013 AT 03:38 PM us:\2026031049\012 rock creek park trail\trans\cadd\sheet_files\p\sw-D001_r.ctb

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		113	124



REFER TO SW-01 AND SW-03 FOR NOTES AND DETAILS

REFER TO SW-01 AND SW-03 FOR NOTES AND DETAILS

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 100' 0 100' 200'
 HORIZONTAL SCALE: 1" = 100'



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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
 MULTI-USE TRAIL REHABILITATION
 30% DESIGN SUBMITTAL

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013

SCALE: 1" = 10'

SW-05

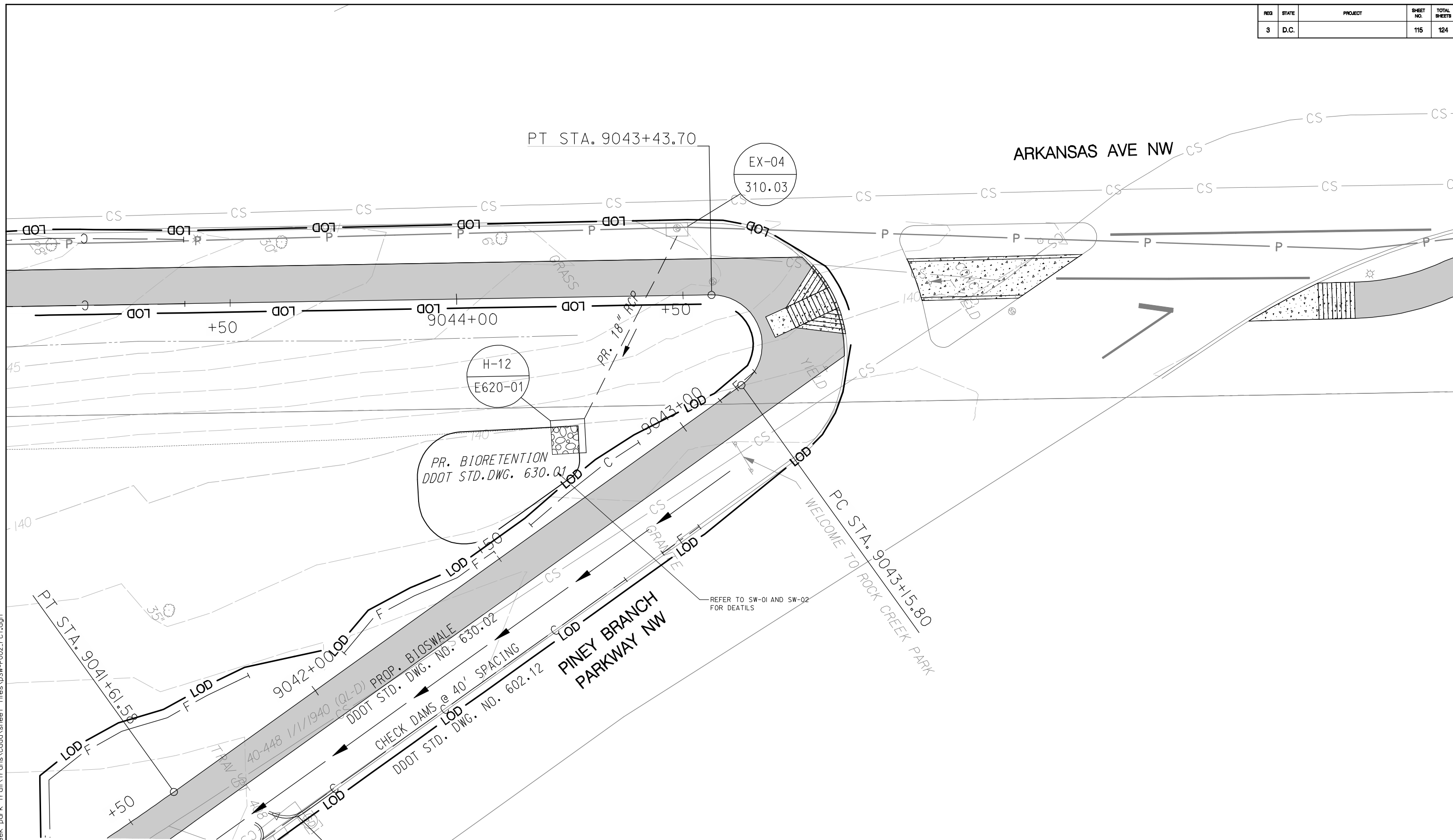
STORMWATER MANAGEMENT PLAN

DIVISION CHIEF

DATE _____
 FILE _____
 SHEET 113 OF 124

Thursday, September 12, 2013 AT 03:38 PM
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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		116	124



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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

**ROCK CREEK PARK
 MULTI-USE TRAIL REHABILITATION
 30% DESIGN SUBMITTAL**

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013

SCALE: 1" = 10'

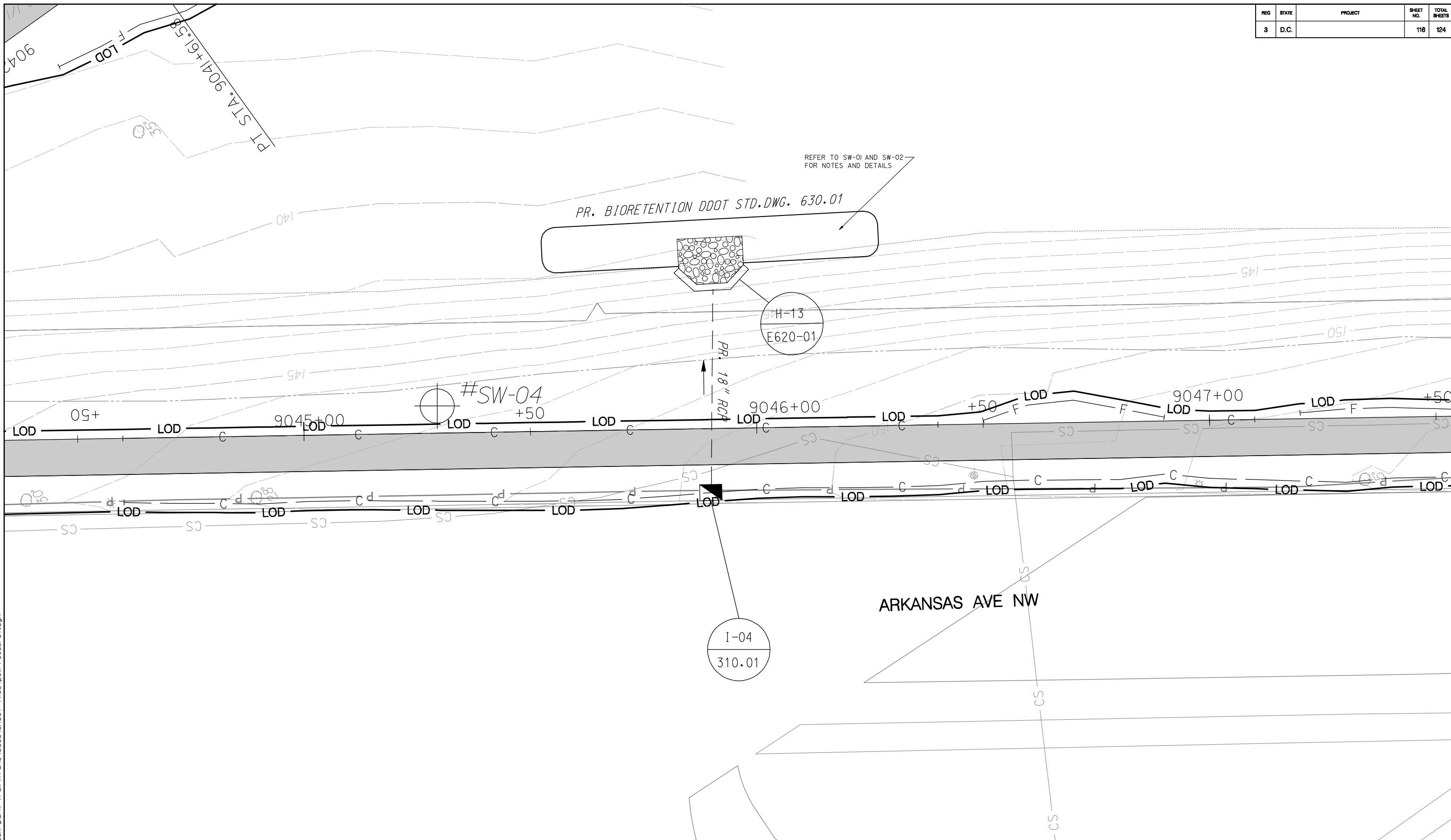
SW-06

STORMWATER MANAGEMENT PLAN

DIVISION CHIEF

DATE _____
 FILE _____
 SHEET 116 OF 124

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		116	124



Thursday, September 12, 2013 AT 03:38 PM
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100' 0 100' 200'

HORIZONTAL SCALE: 1" = 100'



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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

DATE: 09-13-2013

SCALE: 1" = 10'

SW-07

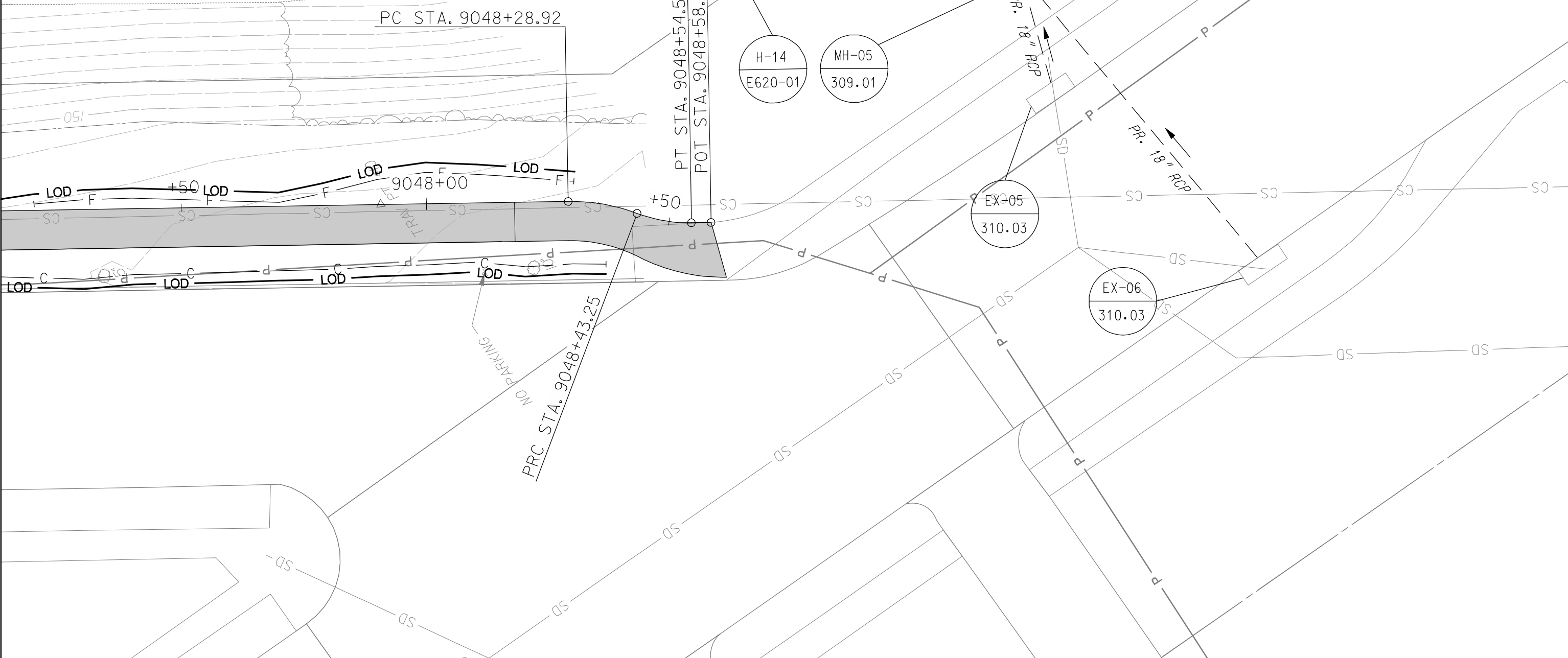
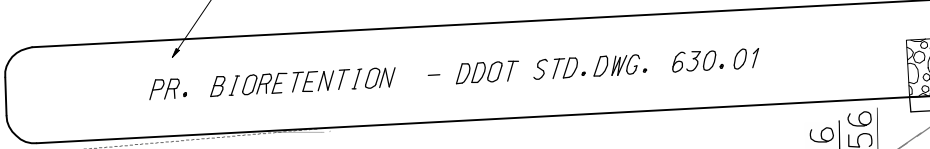
DIVISION CHIEF

STORMWATER MANAGEMENT PLAN

DATE _____
FILE _____
SHEET 116 OF 124

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		118	124

REFER TO SW-01 AND SW-02 FOR NOTES AND DETAILS



Thursday, September 12, 2013 AT 03:38 PM
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NOT FOR CONSTRUCTION
 100' 0 100' 200'
 HORIZONTAL SCALE: 1" = 100'



NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013 SCALE: 1" = 10' SW-08

STORMWATER MANAGEMENT PLAN

DIVISION CHIEF _____
 DATE _____
 FILE _____
 SHEET 117 OF 124

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		117	124



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Page 1 of 1

RECORD OF SOIL / ROCK EXPLORATION

Contracted With Stantec Consulting Servies, Inc. Boring # BR-02
Project Name Rock Creek Park Multi-Use Trail Job # 12-034-PC
Location Washington, DC

SAMPLER
Datum _____ Hammer Wt. 140 lb Hole Diameter 6 in Foreman D. Addison
Surf. Elev. 38.0 ft Hammer Drop 30 in Rock Core Dia. N/A Inspector R. Gordle
Date Started 12/28/12 Spoon Size 2 in Boring Method HSA Date Completed 12/28/12

ELEV. (ft)	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size Proportions	STRA DEPTH (ft)	SOIL SYMBOL	DEPTH SCALE	SAMPLE				BORING & SAMPLE NOTES	
					Cond	Blows/G*	No.	Type		
35.5	Dark brown, moist, medium dense, silty SAND, some gravel, trace mica, trace roots, (FILL)	2.5		5	I/D	10-8-9	1	DS	9	1. No water encountered 2. Boring was filled with grout and grade was restored.
34.5	CONCRETE, 12 inches	3.5		5	I/D	16-14-8	2	DS	8	
33.0	Dark brown, moist, medium dense, silty SAND, little gravel, trace mica, (FILL)	5.0		5	I/D	50/4"	3	DS	3	
	Brown, moist, very dense to medium dense, silty SAND, with gravel, trace mica, (FILL) ROCK FRAGMENTS @ 5 FEET				I/D	12-6-5	4	DS	3	
28.0	Brown, moist, loose, silty SAND, with gravel, trace mica, (POSSIBLE FILL)	10.0		10	I/D	3-4-5	5	DS	6	
23.0	Brown/gray, moist, very dense, silty SAND, with rock fragments, trace mica, (POSSIBLE WEATHERED ROCK)	15.0		15	I/D	32-50/2"	6	DS	8	
21.5	Brown/gray, moist, very dense, ROCK FRAGMENTS, possible bed rock	16.5			I/D	50/3"	7	DS	3	
19.5	Bottom of Boring at 18.5 ft	18.5			I/D	50/0"	8	DS	0	

SAMPLER TYPE DS - DRIVEN SPLIT SPOON
PT - PRESSED SHELBY TUBE
CA - CONTINUOUS FLIGHT AUGER
RC - ROCK CORE

SAMPLE CONDITIONS D - DISINTEGRATED
I - INTACT
U - UNDISTURBED
L - LOST

GROUNDWATER DEPTH AT COMPLETION _____ ft
AFTER _____ HRS. _____ ft
AFTER 24 HRS. _____ ft
CAVED AT _____ ft

BORING METHOD HSA - HOLLOW STEM AUGERS
CFA - CONTINUOUS FLIGHT AUGERS
DC - DRIVING CASING
MD - MUD DRILLING

STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30". COUNT MADE AT 6" INTERVALS



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Page 1 of 1

RECORD OF SOIL / ROCK EXPLORATION

Contracted With Stantec Consulting Servies, Inc. Boring # RW-01
Project Name Rock Creek Park Multi-Use Trail Job # 12-034-PC
Location Washington, DC

SAMPLER
Datum _____ Hammer Wt. 140 lb Hole Diameter 6 in Foreman K. Manos
Surf. Elev. 38.0 ft Hammer Drop 30 in Rock Core Dia. N/A Inspector R. Gordle
Date Started 1/3/13 Spoon Size 2 in Boring Method HSA Date Completed 1/3/13

ELEV. (ft)	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size Proportions	STRA DEPTH (ft)	SOIL SYMBOL	DEPTH SCALE	SAMPLE				BORING & SAMPLE NOTES	
					Cond	Blows/G*	No.	Type		
35.7	ASPHALT, 3 inches Brown/gray, moist, soft, sandy Lean CLAY, trace mica, trace gravel, (FILL), (CL)	0.3			I/D	2-2-2	1	DS	14	1. No water encountered 2. Bag sample was collected from 2 ft - 7.5 feet 3. Boring was filled with grout and grade was restored.
31.0	Brown/gray, dry to moist, medium dense to very dense, silty SAND, little mica, trace gravel	5.0		5	I/D	10-9-12	2	DS	12	
	GRAVEL @ 10.3 FEET				I/D	17-50/3"	4	DS	9	
24.0	Gray, dry, very dense, clayey SAND, trace gravel	12.0		10	I/D		5	AC		
21.0	POSSIBLE BEDROCK Bottom of Boring at 15.0 ft	15.0		15	I/D	50/0"	6	DS	0	

SAMPLER TYPE DS - DRIVEN SPLIT SPOON
PT - PRESSED SHELBY TUBE
CA - CONTINUOUS FLIGHT AUGER
RC - ROCK CORE

SAMPLE CONDITIONS D - DISINTEGRATED
I - INTACT
U - UNDISTURBED
L - LOST

GROUNDWATER DEPTH AT COMPLETION _____ ft
AFTER _____ HRS. _____ ft
AFTER 24 HRS. _____ ft
CAVED AT _____ ft

BORING METHOD HSA - HOLLOW STEM AUGERS
CFA - CONTINUOUS FLIGHT AUGERS
DC - DRIVING CASING
MD - MUD DRILLING

STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30". COUNT MADE AT 6" INTERVALS



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Page 1 of 1

RECORD OF SOIL / ROCK EXPLORATION

Contracted With Stantec Consulting Servies, Inc. Boring # RW-02
Project Name Rock Creek Park Multi-Use Trail Job # 12-034-PC
Location Washington, DC

SAMPLER
Datum _____ Hammer Wt. 140 lb Hole Diameter 6 in Foreman A. McCallister
Surf. Elev. 54.0 ft Hammer Drop 30 in Rock Core Dia. N/A Inspector M. Tanner
Date Started 2/12/13 Spoon Size 2 in Boring Method HSA Date Completed 2/12/13

ELEV. (ft)	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size Proportions	STRA DEPTH (ft)	SOIL SYMBOL	DEPTH SCALE	SAMPLE				BORING & SAMPLE NOTES	
					Cond	Blows/G*	No.	Type		
53.7	4" of TOPSOIL	0.3			I/D	3-2-2	1	DS	14	1. Water encountered at 16.0 ft. 2. Bag sample collected from 0.3' - 6.5' 3. Auger refusal at 18.0', possible large boulder. 4. Upon completion boring was backfilled with auger cuttings and surface restored in-kind.
52.0	Orangeish brown, moist, very loose, clayey SAND, trace silt, trace gravel, (FILL)	2.0		2	I/D	33-4-10	2	DS	16	
49.5	Dark brown, moist, stiff, silty CLAY, (FILL) GRAVEL @ 2.5 FEET	4.5		5	I	12-7-8	3	DS	16	
	Brown to dark brown (multicolor), moist, medium dense to loose, silty SAND, with gravel, trace to little clay, (POSSIBLE FILL), (SM)				I	5-5-5	4	DS	12	
44.5	Dark brown, moist, loose, silty SAND, trace clay, rock fragments	9.5		10	D	3-3-3	5	DS	8	
40.5	Brown, very moist to wet, medium dense, silty SAND, with gravel, trace clay	13.5		15	D	6-6-12	6	DS	8	
36.5	Brown, wet, medium dense, gravelly SAND, little silt	17.5			D	14-11-10	7	DS	16	
34.5	Bottom of Boring at 19.5 ft	19.5		20						

SAMPLER TYPE DS - DRIVEN SPLIT SPOON
PT - PRESSED SHELBY TUBE
CA - CONTINUOUS FLIGHT AUGER
RC - ROCK CORE

SAMPLE CONDITIONS D - DISINTEGRATED
I - INTACT
U - UNDISTURBED
L - LOST

GROUNDWATER DEPTH AT COMPLETION _____ ft
AFTER _____ HRS. _____ ft
AFTER 24 HRS. _____ ft
CAVED AT _____ ft

BORING METHOD HSA - HOLLOW STEM AUGERS
CFA - CONTINUOUS FLIGHT AUGERS
DC - DRIVING CASING
MD - MUD DRILLING

STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30". COUNT MADE AT 6" INTERVALS

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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

DATE: 09-13-2013

BORING LOGS

BL-01

DIVISION CHIEF

DATE _____
FILE _____
SHEET 117 OF 124



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Page 1 of 1

RECORD OF SOIL / ROCK EXPLORATION

Contracted With Stantec Consulting Services, Inc. Boring # RW-03
Project Name Rock Creek Park Multi-Use Trail Job # 12-034-PC
Location Washington, DC

SAMPLER

Datum _____ Hammer Wt. 140 lb Hole Diameter 6 in Foreman A. McCallister
Surf. Elev. 60.8 ft Hammer Drop 30 in Rock Core Dia. N/A Inspector M.Tanner
Date Started 2/12/13 Spoon Size 2 in Boring Method HSA Date Completed 2/12/13

ELEV. (ft)	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size Proportions	STRA DEPTH (ft)	SOIL SYMBOL	DEPTH SCALE	SAMPLE				BORING & SAMPLE NOTES	
					Cond	Blows/6"	No.	Type		
58.8	Brown, moist, very stiff, gravelly sandy SILT, with gravel, trace clay, trace plant roots. (FILL) ASPHALT @ 2.0 FEET	2.0			D	4-7-9	1	DS	12	1. No water encountered 2. Surface - gravel and trace roots, Asphalt below gravel surface 3. Auger refusal at 13.5' 4. Upon completion boring was backfilled with auger cuttings and surface restored in-kind.
	Brown, moist, loose, silty SAND, trace gravel, trace to little mica, (POSSIBLE FILL) , (SM) CLAY AND ROOTS @ 5.0 FEET				I/D	4-3-4	2	DS	10	
53.8	Brown, moist, medium dense, silty SAND, trace gravel, trace clay, (POSSIBLE FILL)	7.0			I/D	5-5-5	3	DS	9	
	ROCK FRAGMENTS @ 10.0 FEET				I/D	9-10-10	4	DS	4	
48.3	ROCK FRAGMENTS	12.5			I/D	8-8-12	5	DS	10	
47.1	Bottom of Boring at 13.7 ft	13.7			D	50/2"	6	DS	2	

SAMPLER TYPE DS - DRIVEN SPLIT SPOON
SAMPLE CONDITIONS D - DISINTEGRATED
GROUNDWATER DEPTH AT COMPLETION _____ ft
BORING METHOD HSA - HOLLOW STEM AUGERS



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Page 1 of 1

RECORD OF SOIL / ROCK EXPLORATION

Contracted With Stantec Consulting Services, Inc. Boring # RW-04
Project Name Rock Creek Park Multi-Use Trail Job # 12-034-PC
Location Washington, DC

SAMPLER

Datum _____ Hammer Wt. 140 lb Hole Diameter 6 in Foreman A. McCallister
Surf. Elev. 69.0 ft Hammer Drop 30 in Rock Core Dia. N/A Inspector M.Tanner
Date Started 2/13/13 Spoon Size 2 in Boring Method HSA Date Completed 2/13/13

ELEV. (ft)	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size Proportions	STRA DEPTH (ft)	SOIL SYMBOL	DEPTH SCALE	SAMPLE				BORING & SAMPLE NOTES	
					Cond	Blows/6"	No.	Type		
68.9	1" of TOPSOIL	0.1			I/D	2-3-3	1	DS	11	1. Boring offset 14.0' East, 6.5' North and 11.5' West of retaining wall 2. Auger refusal at 10.8' 3. Attempted to drill past 10.8'. However, auger only penetrated another 0.5'. 4. Upon completion boring was backfilled with auger cuttings and surface restored in-kind.
66.5	Brown, moist, loose, silty SAND, with rock fragments, trace gravel, trace clay, trace brick fragments, trace plant root, (FILL)	2.5			I/D	7-3-4	2	DS	3	
64.0	Light brown, brown, moist, loose, silty SAND, with rock fragments, trace gravel, trace clay, trace plant root, (FILL)	5.0			I/D	7-8-16	3	DS	10	
	Tannish gray, moist, medium dense to very dense, silty SAND, with rock fragments, some cobbles				I/D	29-42-17	4	DS	18	
58.2	Bottom of Boring at 10.8 ft	10.8			I/D	24-50/3"	5	DS	3	

SAMPLER TYPE DS - DRIVEN SPLIT SPOON
SAMPLE CONDITIONS D - DISINTEGRATED
GROUNDWATER DEPTH AT COMPLETION _____ ft
BORING METHOD HSA - HOLLOW STEM AUGERS



THOMAS L. BROWN ASSOCIATES, P.C.
A Division of Soil and Land Use Technology, Inc.

Page 1 of 1

RECORD OF SOIL / ROCK EXPLORATION

Contracted With Stantec Consulting Services, Inc. Boring # RW-06
Project Name Rock Creek Park Multi-Use Trail Job # 12-034-PC
Location Washington, DC

SAMPLER

Datum _____ Hammer Wt. 140 lb Hole Diameter 6 in Foreman A. McCallister
Surf. Elev. 82.0 ft Hammer Drop 30 in Rock Core Dia. N/A Inspector M.Tanner
Date Started 2/7/13 Spoon Size 2 in Boring Method HSA Date Completed 2/7/13

ELEV. (ft)	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size Proportions	STRA DEPTH (ft)	SOIL SYMBOL	DEPTH SCALE	SAMPLE				BORING & SAMPLE NOTES	
					Cond	Blows/6"	No.	Type		
81.7	4" of ASPHALT	0.3			I/D	3-7-4	1	DS	7	1. No water encountered 2. Boring offset 2' West of existing curb on hiking trail to avoid combined sewer utility locator marks in Piney Branch Pkwy SBND lanes. 3. Drilling yielded little to no auger cuttings. 4. S-4: Possible void, augered to 7.5' spoon dropped weightless to 9.5'. Augered to 10.5', spoon dropped weightless to 12.0'. 5. S-5: Augered after S-5, encountered auger refusal. 6. Boring later determined to penetrate brick conduit at approximately 7.5'. 7. Crown of the conduit was at approx. 7.5' and the invert was at approx. 12.0' from the existing ground surface, conduit was later repaired by capping and grouting.
77.5	Brown to orangish brown, moist, medium dense, clayey SAND, little silt, trace gravel, trace asphalt, trace roots, (FILL)	4.5			I/D	7-9-8	2	DS	12	
74.5	Grayish brown, moist, medium dense to very dense, gravelly SAND, little clay, trace rock fragments, (FILL)	7.5			I/D	7-9-11	3	DS	10	
	POSSIBLE CROWN OF CONDUIT				D	0-0-0	4	DS	2	
70.0	POSSIBLE INVERT OF CONDUIT	12.0			I/D	50/1"	5	DS	0	
69.9	Bottom of Boring at 12.1 ft	12.1			I/D					

SAMPLER TYPE DS - DRIVEN SPLIT SPOON
SAMPLE CONDITIONS D - DISINTEGRATED
GROUNDWATER DEPTH AT COMPLETION _____ ft
BORING METHOD HSA - HOLLOW STEM AUGERS

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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

DATE: 09-13-2013

BORING LOGS

BL-02

DIVISION CHIEF

DATE _____

FILE _____

SHEET 118 OF 124

RECORD OF SOIL / ROCK EXPLORATION

Contracted With Stantec Consulting Servies, Inc. Boring # RW-07
 Project Name Rock Creek Park Multi-Use Trail Job # 12-034-PC
 Location Washington, DC

SAMPLER

Datum _____ Hammer Wt. 140 lb Hole Diameter 6 in Foreman A. McCallister
 Surf. Elev. 85.0 ft Hammer Drop 30 in Rock Core Dia. N/A Inspector M. Tanner
 Date Started 2/7/13 Spoon Size 2 in Boring Method HSA Date Completed 2/7/13

ELEV. (ft)	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size Proportions	STRA DEPTH (ft)	SOIL SYMBOL	DEPTH SCALE	SAMPLE				BORING & SAMPLE NOTES	
					Cond	Blows/5'	No.	Type		
84.7	4.25' of ASPHALT Dark brown to brown, moist, loose to dense, micaceous silty SAND, little clay, trace gravel, (FILL) GRAVEL @ 2.5 FEET	0.4			D	6-7-8	1	DS	12	1. Water encountered at 10.0 ft.
					I/D	6-3-4	2	DS	8	2. Boring offset 2-3' East of original staked location.
					D	15-18-15	3	DS	3	3. Upon completion boring was backfilled with auger cuttings and surface restored in-kind.
	ROCK FRAGMENTS @ 7.5 FEET				D	15-13-20	4	DS	12	
75.5	Orangish brown to light brown, moist, very dense, silty SAND, trace gravel, trace rock fragments	9.5			D	47-51/3"	5	DS	9	
72.5	Grayish brown, moist, very dense, ROCK FRAGMENTS, with silty sand and gravel	12.5			D	47-50/0"	6	DS	0	
67.4	Bottom of Boring at 17.6 ft	17.6			D	51/1"	7	DS	1	

SAMPLER TYPE DS - DRIVEN SPLIT SPOON
SAMPLE CONDITIONS D - DISINTEGRATED
GROUNDWATER DEPTH AT COMPLETION 10.0 ft
BORING METHOD HSA - HOLLOW STEM AUGERS
 AFTER _____ HRS. _____ ft
 CA - CONTINUOUS FLIGHT AUGERS
 U - UNDISTURBED
 L - LOST
 CAVED AT 14.0 ft
 MD - MUD DRILLING
 STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30". COUNT MADE AT 6" INTERVALS

RECORD OF SOIL / ROCK EXPLORATION

Contracted With Stantec Consulting Servies, Inc. Boring # SW-01
 Project Name Rock Creek Park Multi-Use Trail Job # 12-034-PC
 Location Washington, DC

SAMPLER

Datum _____ Hammer Wt. 140 lb Hole Diameter 6 in Foreman A. McCallister
 Surf. Elev. 86.5 ft Hammer Drop 30 in Rock Core Dia. N/A Inspector M. Tanner
 Date Started 2/14/13 Spoon Size 2 in Boring Method HSA Date Completed 2/14/13

ELEV. (ft)	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size Proportions	STRA DEPTH (ft)	SOIL SYMBOL	DEPTH SCALE	SAMPLE				BORING & SAMPLE NOTES	
					Cond	Blows/5'	No.	Type		
56.3	3" of TOPSOIL Dark brown, moist, very stiff, sandy SILT, little clay, trace gravel, trace plant roots, (FILL)	0.3			I	5-7-9-10	1	DS	12	1. No water encountered
54.5	Brown, moist, very dense, silty SAND, trace gravel, (FILL)	2.0			D	25-25-26-14	2	DS	16	2. Upon completion boring was backfilled with auger cuttings and surface restored in-kind.
52.5	Brown, moist, dense, silty GRAVEL, with sand, little clay, trace rock fragments, (POSSIBLE FILL), (GM), (USDA: SANDY LOAM)	4.0			I/D	22-25-16-14	3	DS	9	3. Infiltration test well was offset 4.5' from original boring location and set to a depth of 4.0'.
					D	14-20-20-16	4	DS	10	
46.5	Bottom of Boring at 10.0 ft	10.0			D	14-16-16-18	5	DS	16	

SAMPLER TYPE DS - DRIVEN SPLIT SPOON
SAMPLE CONDITIONS D - DISINTEGRATED
GROUNDWATER DEPTH AT COMPLETION _____ ft
BORING METHOD HSA - HOLLOW STEM AUGERS
 AFTER _____ HRS. _____ ft
 CA - CONTINUOUS FLIGHT AUGERS
 U - UNDISTURBED
 L - LOST
 CAVED AT 5.5 ft
 MD - MUD DRILLING
 STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30". COUNT MADE AT 6" INTERVALS

RECORD OF SOIL / ROCK EXPLORATION

Contracted With Stantec Consulting Servies, Inc. Boring # SW-02
 Project Name Rock Creek Park Multi-Use Trail Job # 12-034-PC
 Location Washington, DC

SAMPLER

Datum _____ Hammer Wt. 140 lb Hole Diameter 6 in Foreman A. McCallister
 Surf. Elev. 81.5 ft Hammer Drop 30 in Rock Core Dia. N/A Inspector M. Tanner
 Date Started 2/14/13 Spoon Size 2 in Boring Method HSA Date Completed 2/14/13

ELEV. (ft)	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size Proportions	STRA DEPTH (ft)	SOIL SYMBOL	DEPTH SCALE	SAMPLE				BORING & SAMPLE NOTES	
					Cond	Blows/5'	No.	Type		
80.8	8" of TOPSOIL Brown, moist, very stiff, clayey SILT, trace sand, trace gravel, (FILL)	0.7			D	3-7-11-10	1	DS	10	1. No water encountered
79.5	Brown, moist, medium dense, clayey SAND, with gravel, little silt, trace organics, (FILL)	2.0			I/D	6-5-6-6	2	DS	12	2. Infiltration test well offset from original boring location and set to a depth of 4.0'
77.5	Brown, moist, loose, clayey SAND, little silt, with rock fragments, (USDA: SANDY LOAM)	4.0			I/D	4-5-3-5	3	DS	8	3. Upon completion boring was backfilled with auger cuttings and surface restored in-kind.
73.5	Brown/Reddish brown, moist, medium stiff, sandy SILT, little clay, trace gravel	8.0			I	4-3-3-3	4	DS	6	
71.5	Bottom of Boring at 10.0 ft	10.0			D	4-3-3-3	5	DS	5	

SAMPLER TYPE DS - DRIVEN SPLIT SPOON
SAMPLE CONDITIONS D - DISINTEGRATED
GROUNDWATER DEPTH AT COMPLETION _____ ft
BORING METHOD HSA - HOLLOW STEM AUGERS
 AFTER _____ HRS. _____ ft
 CA - CONTINUOUS FLIGHT AUGERS
 U - UNDISTURBED
 L - LOST
 CAVED AT 4.5 ft
 MD - MUD DRILLING
 STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30". COUNT MADE AT 6" INTERVALS

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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
 MULTI-USE TRAIL REHABILITATION
 30% DESIGN SUBMITTAL

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013

BORING LOGS

BL-03

DIVISION CHIEF

DATE _____
 FILE _____
 SHEET 119 OF 124

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
3	D.C.		120	124

RECORD OF SOIL / ROCK EXPLORATION

Contracted With Stantec Consulting Servies, Inc. Boring # SW-03
Project Name Rock Creek Park Multi-Use Trail Job # 12-034-PC
Location Washington, DC

SAMPLER

Datum _____ Hammer Wt. 140 lb Hole Diameter 6 in Foreman A. McCallister
Surf. Elev. 123.0 ft Hammer Drop 30 in Rock Core Dia. N/A Inspector M. Tanner
Date Started 2/15/13 Spoon Size 2 in Boring Method HSA Date Completed 2/15/13

ELEV. (ft)	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size Proportions	STRA DEPTH (ft)	SOIL SYMBOL	DEPTH SCALE	SAMPLE				BORING & SAMPLE NOTES	
					Cond	Blows/6"	No.	Type		
127.3	8" of TOPSOIL Brown, moist, loose to very loose, micaceous silty SAND, trace gravel, trace plant roots, rock fragments encountered, (FILL)	0.7			I/D	2-3-4-5	1	DS	8	1. No water encountered 2. Upon completion boring was backfilled with auger cuttings and surface restored in-kind. 3. Infiltration test well offset from original boring location and set to a depth of 4.0'
123.5	Brown (multi-color), moist, very loose, silty clayey SAND, trace to little gravel, (SC), (USDA: SANDY LOAM)	4.5			I/D	4-2-1-1	3	DS	10	
120.0	Gray/brown, moist, loose, gravelly SAND, some clay, trace silt	8.0			I/D	2-1-1-1	4	DS	5	
118.0	Bottom of Boring at 10.0 ft	10.0			I/D	3-3-3-3	5	DS	5	

SAMPLER TYPE
DS - DRIVEN SPLIT SPOON
FT - PRESSED SHELBY TUBE
CA - CONTINUOUS FLIGHT AUGER
RC - ROCK CORE

SAMPLE CONDITIONS
D - DISINTEGRATED
I - INTACT
U - UNDISTURBED
L - LOST

GROUNDWATER DEPTH
AT COMPLETION _____ ft
AFTER 24 HRS. _____ ft
CAVED AT 5.7 ft

BORING METHOD
HSA - HOLLOW STEM AUGERS
CFA - CONTINUOUS FLIGHT AUGERS
DC - DRIVING CASING
MD - MUD DRILLING

STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

RECORD OF SOIL / ROCK EXPLORATION

Contracted With Stantec Consulting Servies, Inc. Boring # SW-04
Project Name Rock Creek Park Multi-Use Trail Job # 12-034-PC
Location Washington, DC

SAMPLER

Datum _____ Hammer Wt. 140 lb Hole Diameter 6 in Foreman A. McCallister
Surf. Elev. 145.0 ft Hammer Drop 30 in Rock Core Dia. N/A Inspector M. Tanner
Date Started 2/14/13 Spoon Size 2 in Boring Method HSA Date Completed 2/14/13

ELEV. (ft)	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size Proportions	STRA DEPTH (ft)	SOIL SYMBOL	DEPTH SCALE	SAMPLE				BORING & SAMPLE NOTES	
					Cond	Blows/6"	No.	Type		
144.3	8" of TOPSOIL Burgundy/brown/black, moist, medium stiff, sandy CLAY, trace organics, (FILL)	0.7			D	4-3-3-3	1	DS	10	1. No water encountered 2. Upon completion boring was backfilled with auger cuttings and surface restored in-kind. 3. Infiltration test well offset from original boring location and set to a depth of 8.0'
143.0	Brown/burgundy, moist, hard to stiff, sandy SILT, little clay, trace gravel, (POSSIBLE FILL)	2.0			I/D	5-8-36-22	2	DS	12	
139.0	Burgundy/brown, moist, stiff, silty CLAY, trace sand, trace gravel, (POSSIBLE FILL)	6.0			I/D	8-7-6-3	3	DS	8	
137.0	Brownish gray, moist, loose, silty SAND, with gravel, organic odor, (POSSIBLE FILL), (SM), (USDA: LOAM)	8.0			I	6-5-4-4	4	DS	6	
135.0	Bottom of Boring at 10.0 ft	10.0			D	2-3-2-2	5	DS	5	

SAMPLER TYPE
DS - DRIVEN SPLIT SPOON
FT - PRESSED SHELBY TUBE
CA - CONTINUOUS FLIGHT AUGER
RC - ROCK CORE

SAMPLE CONDITIONS
D - DISINTEGRATED
I - INTACT
U - UNDISTURBED
L - LOST

GROUNDWATER DEPTH
AT COMPLETION _____ ft
AFTER 24 HRS. _____ ft
CAVED AT 5.0 ft

BORING METHOD
HSA - HOLLOW STEM AUGERS
CFA - CONTINUOUS FLIGHT AUGERS
DC - DRIVING CASING
MD - MUD DRILLING

STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

RECORD OF SOIL / ROCK EXPLORATION

Contracted With Stantec Consulting Servies, Inc. Boring # T-01
Project Name Rock Creek Park Multi-Use Trail Job # 12-034-PC
Location Washington, DC

SAMPLER

Datum _____ Hammer Wt. 140 lb Hole Diameter 6 in Foreman A. McCallister
Surf. Elev. 47.5 ft Hammer Drop 30 in Rock Core Dia. N/A Inspector M. Tanner
Date Started 2/8/13 Spoon Size 2 in Boring Method HSA Date Completed 2/8/13

ELEV. (ft)	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size Proportions	STRA DEPTH (ft)	SOIL SYMBOL	DEPTH SCALE	SAMPLE				BORING & SAMPLE NOTES	
					Cond	Blows/6"	No.	Type		
47.0	6" of TOPSOIL Dark brown, moist, loose, clayey SAND, trace little silt, trace plant roots, (FILL)	0.5			I/D	2-3-3	1	DS	10.5	1. No water encountered 2. Upon completion boring was backfilled with auger cuttings and surface restored in-kind.
45.5	Orangeish brown, moist, medium dense, silty GRAVEL, with sand, (FILL), (GW)	2.0			D	10-10-13	2	DS	15	
43.0	Orangeish brown, moist, very stiff, CLAY, little silt, trace sand	4.5			I/D	7-8-13	3	DS	14	
41.0	Bottom of Boring at 6.5 ft	6.5			I/D					

SAMPLER TYPE
DS - DRIVEN SPLIT SPOON
FT - PRESSED SHELBY TUBE
CA - CONTINUOUS FLIGHT AUGER
RC - ROCK CORE

SAMPLE CONDITIONS
D - DISINTEGRATED
I - INTACT
U - UNDISTURBED
L - LOST

GROUNDWATER DEPTH
AT COMPLETION _____ ft
AFTER 24 HRS. _____ ft
CAVED AT 3.5 ft

BORING METHOD
HSA - HOLLOW STEM AUGERS
CFA - CONTINUOUS FLIGHT AUGERS
DC - DRIVING CASING
MD - MUD DRILLING

STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

DATE: 09-13-2013

BORING LOGS

BL-04

DIVISION CHIEF

DATE _____
FILE _____
SHEET 120 OF 124

THOMAS L. BROWN ASSOCIATES, P.C.
A Division of Soil and Land Use Technology, Inc. Page 1 of 1

RECORD OF SOIL / ROCK EXPLORATION

Contracted With Stantec Consulting Servies, Inc. Boring # T-02
Project Name Rock Creek Park Multi-Use Trail Job # 12-034-PC
Location Washington, DC

SAMPLER
Datum _____ Hammer Wt. 140 lb Hole Diameter 6 in Foreman A. McCallister
Surf. Elev. 29.3 ft Hammer Drop 30 in Rock Core Dia. N/A Inspector M. Tanner
Date Started 2/8/13 Spoon Size 2 in Boring Method HSA Date Completed 2/8/13

ELEV. (ft)	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size Proportions	STRA DEPTH (ft)	SOIL SYMBOL	DEPTH SCALE	SAMPLE				BORING & SAMPLE NOTES	
					Cond	Blows/6"	No.	Type		
28.8	5" of TOPSOIL	0.5			I/D	1-3-5	1	DS	8	1. No water encountered
27.3	Dark brown, moist, medium stiff, sandy CLAY, trace gravel, trace plant roots, crushed quartz, (FILL)	2.0			D	50/5"	2	DS	5	2. bag sample collected from 0.5 - 6.0'
22.8	Dark brown, moist, very dense to loose, silty SAND, trace mica, trace gravel, trace mica, trace clay, trace gravel, trace mica, trace plant roots, trace brick fragments, (FILL) GRAVEL @ 3.0 FEET ROCK FRAGMENTS @ 6.25 FEET Bottom of Boring at 6.5 ft	6.5			D	10-4-4	3	DS	7	3. Upon completion boring was backfilled with auger cuttings and surface restored in-kind.

SAMPLER TYPE DS - DRIVEN SPLIT SPOON FT - FRESSED SHELBY TUBE CA - CONTINUOUS FLIGHT AUGER RC - ROCK CORE
SAMPLE CONDITIONS D - DISINTEGRATED I - INTACT U - UNDISTURBED L - LOST
GROUNDWATER DEPTH AT COMPLETION _____ ft AFTER 24 HRS. _____ ft CAVED AT 3.5 ft
BORING METHOD HSA - HOLLOW STEM AUGERS CFA - CONTINUOUS FLIGHT AUGERS DC - DRIVING CASING MD - MUD DRILLING

STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

THOMAS L. BROWN ASSOCIATES, P.C.
A Division of Soil and Land Use Technology, Inc. Page 1 of 1

RECORD OF SOIL / ROCK EXPLORATION

Contracted With Stantec Consulting Servies, Inc. Boring # T-03
Project Name Rock Creek Park Multi-Use Trail Job # 12-034-PC
Location Washington, DC

SAMPLER
Datum _____ Hammer Wt. 140 lb Hole Diameter 6 in Foreman A. McCallister
Surf. Elev. 18.7 ft Hammer Drop 30 in Rock Core Dia. N/A Inspector M. Tanner
Date Started 2/19/13 Spoon Size 2 in Boring Method HSA Date Completed 2/19/13

ELEV. (ft)	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size Proportions	STRA DEPTH (ft)	SOIL SYMBOL	DEPTH SCALE	SAMPLE				BORING & SAMPLE NOTES	
					Cond	Blows/6"	No.	Type		
18.5	2" of TOPSOIL, little gravel 0.0-1.5' Brown, moist, medium dense, silty SAND, trace clay, trace to little gravel, (FILL), (SM)	0.2			D	3-5-7	1	DS	16	1. No water encountered
					D	9-9-10	2	DS	16	2. Boring offset just west of trail to avoid combined sewer marked by utility locator. A portion of the combined sewer was stated to possibly be under the trail.
12.2	Bottom of Boring at 6.5 ft	6.5			L	4-10-6	3	DS		3. Sample 3 - 2 attempts were made to retrieve sample. 4. Upon completion boring was backfilled with auger cuttings and surface was restored in-kind.

SAMPLER TYPE DS - DRIVEN SPLIT SPOON FT - FRESSED SHELBY TUBE CA - CONTINUOUS FLIGHT AUGER RC - ROCK CORE
SAMPLE CONDITIONS D - DISINTEGRATED I - INTACT U - UNDISTURBED L - LOST
GROUNDWATER DEPTH AT COMPLETION _____ ft AFTER 24 HRS. _____ ft CAVED AT 2.7 ft
BORING METHOD HSA - HOLLOW STEM AUGERS CFA - CONTINUOUS FLIGHT AUGERS DC - DRIVING CASING MD - MUD DRILLING

STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

THOMAS L. BROWN ASSOCIATES, P.C.
A Division of Soil and Land Use Technology, Inc. Page 1 of 1

RECORD OF SOIL / ROCK EXPLORATION

Contracted With Stantec Consulting Servies, Inc. Boring # T-04
Project Name Rock Creek Park Multi-Use Trail Job # 12-034-PC
Location Washington, DC

SAMPLER
Datum _____ Hammer Wt. 140 lb Hole Diameter 6 in Foreman A. McCallister
Surf. Elev. 31.2 ft Hammer Drop 30 in Rock Core Dia. N/A Inspector M. Tanner
Date Started 2/19/13 Spoon Size 2 in Boring Method HSA Date Completed 2/19/13

ELEV. (ft)	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size Proportions	STRA DEPTH (ft)	SOIL SYMBOL	DEPTH SCALE	SAMPLE				BORING & SAMPLE NOTES	
					Cond	Blows/6"	No.	Type		
30.8	5" of TOPSOIL Brown, moist, loose to very dense, silty SAND, little clay, trace gravel, trace mica, trace asphalt, trace wood fragments, (FILL), (SM) ROCK FRAGMENTS @ 2.5 FEET	0.4			I/D	2-3-2	1	DS	5	1. No water encountered
					I	5-7-16	2	DS	6	2. Boring offset just west of trail to avoid combined sewer marked by utility locator. A portion of the combined sewer was stated to possibly be under the trail.
25.8	Bottom of Boring at 5.4 ft	5.4			L	51/5"	3	DS	0	3. Refusal @ 5.42'. Auger not advanced due to close proximity of combined sewer. Sample not recovered to determine if rock was encountered. 4. Upon completion boring was backfilled with auger cuttings and surface was restored in-kind.

SAMPLER TYPE DS - DRIVEN SPLIT SPOON FT - FRESSED SHELBY TUBE CA - CONTINUOUS FLIGHT AUGER RC - ROCK CORE
SAMPLE CONDITIONS D - DISINTEGRATED I - INTACT U - UNDISTURBED L - LOST
GROUNDWATER DEPTH AT COMPLETION _____ ft AFTER 24 HRS. _____ ft CAVED AT 3.0 ft
BORING METHOD HSA - HOLLOW STEM AUGERS CFA - CONTINUOUS FLIGHT AUGERS DC - DRIVING CASING MD - MUD DRILLING

STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

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www.stantec.com

NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

DATE: 09-13-2013

BORING LOGS

BL-05

DIVISION CHIEF

DATE _____
FILE _____
SHEET 121 OF 124



THOMAS L. BROWN ASSOCIATES, P.C.
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Page 1 of 1

RECORD OF SOIL / ROCK EXPLORATION

Contracted With Stantec Consulting Services, Inc. Boring # T-05
Project Name Rock Creek Park Multi-Use Trail Job # 12-034-PC
Location Washington, DC

SAMPLER

Datum _____ Hammer Wt. 140 lb Hole Diameter 6 in Foreman A. McCallister
Surf. Elev. 48.8 ft Hammer Drop 30 in Rock Core Dia. N/A Inspector M. Tanner
Date Started 2/19/13 Spoon Size 2 in Boring Method HSA Date Completed 2/19/13

ELEV. (ft)	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size Proportions	STRA DEPTH (ft)	SOIL SYMBOL	DEPTH SCALE	SAMPLE					BORING & SAMPLE NOTES
					Cond	Blows/6"	No.	Type	Rec (in)	
46.3	4" of TOPSOIL Brown, moist, loose to medium dense, silty clayey SAND, with gravel, (FILL), (SC-SM)	0.3			I/D	2-4-6	1	DS	12	1. No water encountered 2. Bag sample collected from 0.5' to 6.5'. 3. Boring was offset once to retrieve cuttings for bag sample. Augering yielded little cuttings for bag sample. Bag sample may be inadequate for CBR testing. 4. Upon completion boring was backfilled with auger cuttings and surface was restored in-kind.
					I/D	3-5-16	2	DS	5	
	GRAVEL @ 5.0 FEET				I/D	6-12-20	3	DS	12	
40.1	Bottom of Boring at 6.5 ft	6.5								

SAMPLER TYPE	SAMPLE CONDITIONS	GROUNDWATER DEPTH	BORING METHOD
DS - DRIVEN SPLIT SPOON	D - DISINTEGRATED	AT COMPLETION _____ ft	HSA - HOLLOW STEM AUGERS
FT - PRESSED SHELBY TUBE	I - INTACT	AFTER _____ HRS. _____ ft	CFA - CONTINUOUS FLIGHT AUGERS
CA - CONTINUOUS FLIGHT AUGER	U - UNDISTURBED	AFTER 24 HRS. _____ ft	DC - DRIVING CASING
RC - ROCK CORE	L - LOST	CAVED AT _____ ft	MD - MUD DRILLING

STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30". COUNT MADE AT 6" INTERVALS



THOMAS L. BROWN ASSOCIATES, P.C.
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RECORD OF SOIL / ROCK EXPLORATION

Contracted With Stantec Consulting Services, Inc. Boring # T-06
Project Name Rock Creek Park Multi-Use Trail Job # 12-034-PC
Location Washington, DC

SAMPLER

Datum _____ Hammer Wt. 140 lb Hole Diameter 6 in Foreman A. McCallister
Surf. Elev. 44.5 ft Hammer Drop 30 in Rock Core Dia. N/A Inspector M. Tanner
Date Started 2/13/13 Spoon Size 2 in Boring Method HSA Date Completed 2/13/13

ELEV. (ft)	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size Proportions	STRA DEPTH (ft)	SOIL SYMBOL	DEPTH SCALE	SAMPLE					BORING & SAMPLE NOTES
					Cond	Blows/6"	No.	Type	Rec (in)	
44.3	2" of ASPHALT Orangeish Brown, moist, stiff, sandy SILT, trace little clay, trace gravel, trace asphalt, (FILL)	0.2			I/D	4-7-6	1	DS	12	1. No water encountered 2. Bag sample collected from 0.5' - 5.0'. 3. Boring was backfilled with auger cuttings upon completion and surface was restored in-kind.
42.5					I/D	5-6-8	2	DS	18	
40.0	Brown, moist, stiff, sandy SILT, trace little clay	4.5			I/D	11-17-20	3	DS		
38.0	Brown, moist, dense, silty SAND, trace rock fragments	6.5			I/D					

SAMPLER TYPE	SAMPLE CONDITIONS	GROUNDWATER DEPTH	BORING METHOD
DS - DRIVEN SPLIT SPOON	D - DISINTEGRATED	AT COMPLETION _____ ft	HSA - HOLLOW STEM AUGERS
FT - PRESSED SHELBY TUBE	I - INTACT	AFTER _____ HRS. _____ ft	CFA - CONTINUOUS FLIGHT AUGERS
CA - CONTINUOUS FLIGHT AUGER	U - UNDISTURBED	AFTER 24 HRS. _____ ft	DC - DRIVING CASING
RC - ROCK CORE	L - LOST	CAVED AT _____ ft	MD - MUD DRILLING

STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30". COUNT MADE AT 6" INTERVALS



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RECORD OF SOIL / ROCK EXPLORATION

Contracted With Stantec Consulting Services, Inc. Boring # T-07
Project Name Rock Creek Park Multi-Use Trail Job # 12-034-PC
Location Washington, DC

SAMPLER

Datum _____ Hammer Wt. 140 lb Hole Diameter 6 in Foreman A. McCallister
Surf. Elev. 48.5 ft Hammer Drop 30 in Rock Core Dia. N/A Inspector M. Tanner
Date Started 2/12/13 Spoon Size 2 in Boring Method HSA Date Completed 2/12/13

ELEV. (ft)	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size Proportions	STRA DEPTH (ft)	SOIL SYMBOL	DEPTH SCALE	SAMPLE					BORING & SAMPLE NOTES
					Cond	Blows/6"	No.	Type	Rec (in)	
48.3	3" of ASPHALT Brown, moist, dense to very dense, silty GRAVEL, with sand, trace rock fragments, (FILL), (GM)	0.3			D	12-17-13	1	DS	16	1. No water encountered 2. Auger refusal at 3.5'. 3. Boring offset 3.5' South due to auger refusal, augered to 1.0' and encountered similar conditions (difficulty augering). Boring terminated. 4. Upon completion boring was backfilled with auger cuttings and surface was restored in-kind.
					D	42-50/5"	2	DS	5	
45.0	Bottom of Boring at 3.5 ft	3.5								

SAMPLER TYPE	SAMPLE CONDITIONS	GROUNDWATER DEPTH	BORING METHOD
DS - DRIVEN SPLIT SPOON	D - DISINTEGRATED	AT COMPLETION _____ ft	HSA - HOLLOW STEM AUGERS
FT - PRESSED SHELBY TUBE	I - INTACT	AFTER _____ HRS. _____ ft	CFA - CONTINUOUS FLIGHT AUGERS
CA - CONTINUOUS FLIGHT AUGER	U - UNDISTURBED	AFTER 24 HRS. _____ ft	DC - DRIVING CASING
RC - ROCK CORE	L - LOST	CAVED AT _____ ft	MD - MUD DRILLING

STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30". COUNT MADE AT 6" INTERVALS

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Stantec
Baltimore, MD
USA
Tel. 410.583.6700
Fax. 410.583.6704
www.stantec.com

NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

DATE: 09-13-2013

BORING LOGS

BL-06

DIVISION CHIEF

DATE _____
FILE _____
SHEET 122 OF 124

THOMAS L. BROWN ASSOCIATES, P.C.
A Division of Soil and Land Use Technology, Inc. Page 1 of 1

RECORD OF SOIL / ROCK EXPLORATION

Contracted With Stantec Consulting Servies, Inc. Boring # T-08
Project Name Rock Creek Park Multi-Use Trail Job # 12-034-PC
Location Washington, DC

SAMPLER
Datum _____ Hammer Wt. 140 lb Hole Diameter 6 in Foreman A. McCallister
Surf. Elev. 53.0 ft Hammer Drop 30 in Rock Core Dia. N/A Inspector M.Tanner
Date Started 2/13/13 Spoon Size 2 in Boring Method HSA Date Completed 2/13/13

ELEV. (ft)	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size Proportions	STRA DEPTH (ft)	SOIL SYMBOL	DEPTH SCALE	SAMPLE				BORING & SAMPLE NOTES	
					Cond	Blows/6"	No.	Type		
52.6	5" of TOPSOIL Brown, moist, stiff, silty SAND, little clay, trace gravel, (FILL) ROCK FRAGMENTS @ 2.5 FEET	0.4	[Symbol]	0.4	D	2-5-4	1	DS	5	1. No water encountered 2. Boring offset 4 times due to difficulty augering. Final offset 3.0' West and 9.0' South from original location. Boring was approximately 9.0' from existing SEND curb of Beach Drive NW 3. Upon completion boring was backfilled with auger cuttings and surface restored in-kind. 4. Large boulders were encountered while augering. 5. Bag Sample from 0.4 - 6.5 feet.
	ROCK FRAGMENTS @ 5.0 FEET			5	I/D	20-5-4	2	DS	8	
46.5	Bottom of Boring at 6.5 ft	6.5		6.5	I/D	3-7-5	3	DS	7	

SAMPLER TYPE DS - DRIVEN SPLIT SPOON
SAMPLE CONDITIONS D - DISINTEGRATED
GROUNDWATER DEPTH AT COMPLETION _____ ft
BORING METHOD HSA - HOLLOW STEM AUGERS

STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

THOMAS L. BROWN ASSOCIATES, P.C.
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RECORD OF SOIL / ROCK EXPLORATION

Contracted With Stantec Consulting Servies, Inc. Boring # T-09
Project Name Rock Creek Park Multi-Use Trail Job # 12-034-PC
Location Washington, DC

SAMPLER
Datum _____ Hammer Wt. 140 lb Hole Diameter 6 in Foreman A. McCallister
Surf. Elev. 56.2 ft Hammer Drop 30 in Rock Core Dia. N/A Inspector M.Tanner
Date Started 2/13/13 Spoon Size 2 in Boring Method HSA Date Completed 2/13/13

ELEV. (ft)	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size Proportions	STRA DEPTH (ft)	SOIL SYMBOL	DEPTH SCALE	SAMPLE				BORING & SAMPLE NOTES	
					Cond	Blows/6"	No.	Type		
56.0	2" of ASPHALT	0.2	[Symbol]	0.2	D					1. No water encountered 2. Upon completion boring was backfilled with auger cuttings and surface restored in-kind.
55.7	6" of AGGREGATE BASE	0.5		0.5	D	2-3-3	1	DS	16	
54.0	Dark brown, moist, loose, clayey SAND, trace gravel, little mica, (POSSIBLE FILL), (SC) Brown, moist, stiff, micaceous sandy SILT, trace - little clay, trace gravel ROCK FRAGMENTS @ 2.5 FEET	2.3		2.3	D	4-4-5	2	DS	18	
49.7	Bottom of Boring at 6.5 ft	6.5		6.5	I/D	5-6-5	3	DS	18	

SAMPLER TYPE DS - DRIVEN SPLIT SPOON
SAMPLE CONDITIONS D - DISINTEGRATED
GROUNDWATER DEPTH AT COMPLETION _____ ft
BORING METHOD HSA - HOLLOW STEM AUGERS

STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

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RECORD OF SOIL / ROCK EXPLORATION

Contracted With Stantec Consulting Servies, Inc. Boring # T-10
Project Name Rock Creek Park Multi-Use Trail Job # 12-034-PC
Location Washington, DC

SAMPLER
Datum _____ Hammer Wt. 140 lb Hole Diameter 6 in Foreman A. McCallister
Surf. Elev. 60.2 ft Hammer Drop 30 in Rock Core Dia. N/A Inspector M.Tanner
Date Started 2/15/13 Spoon Size 2 in Boring Method HSA Date Completed 2/15/13

ELEV. (ft)	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size Proportions	STRA DEPTH (ft)	SOIL SYMBOL	DEPTH SCALE	SAMPLE				BORING & SAMPLE NOTES	
					Cond	Blows/6"	No.	Type		
60.1	1.5" of ASPHALT	0.1	[Symbol]	0.1	D					1. No water encountered 2. Upon completion boring was backfilled with auger cuttings and surface restored in-kind.
59.7	5" of AGGREGATE BASE	0.5		0.5	D	7-6-5	1	DS	14	
55.7	Brown, moist, medium dense to loose, micaceous silty SAND, trace gravel Brown, moist, medium dense, silty SAND, trace-little clay	4.5		4.5	I/D	4-5-4	2	DS	18	
53.7	Bottom of Boring at 6.5 ft	6.5		6.5	I	5-5-6	3	DS	16	

SAMPLER TYPE DS - DRIVEN SPLIT SPOON
SAMPLE CONDITIONS D - DISINTEGRATED
GROUNDWATER DEPTH AT COMPLETION _____ ft
BORING METHOD HSA - HOLLOW STEM AUGERS

STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
MULTI-USE TRAIL REHABILITATION
30% DESIGN SUBMITTAL

PROJECT ENG. _____
DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____
PROJECT MGR. _____

DATE: 09-13-2013

BORING LOGS

BL-07
DIVISION CHIEF

DATE _____
FILE _____
SHEET 123 OF 124

THOMAS L. BROWN ASSOCIATES, P.C.
A Division of Soil and Land Use Technology, Inc. Page 1 of 1

RECORD OF SOIL / ROCK EXPLORATION

Contracted With Stantec Consulting Services, Inc. Boring # T-11
 Project Name Rock Creek Park Multi-Use Trail Job # 12-034-PC
 Location Washington, DC

SAMPLER
 Datum _____ Hammer Wt. 140 lb Hole Diameter 6 in Foreman A. McCallister
 Surf. Elev. 65.0 ft Hammer Drop 30 in Rock Core Dia. N/A Inspector M. Tanner
 Date Started 2/19/13 Spoon Size 2 in Boring Method HSA Date Completed 2/19/13

ELEV. (ft)	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size Proportions	STRA DEPTH (ft)	SOIL SYMBOL	DEPTH SCALE	SAMPLE				BORING & SAMPLE NOTES	
					Cond	Blows/6"	No.	Type		
64.7	4" of TOPSOIL	0.3			I	9-9-9	1	DS	8	1. No water encountered
63.3	Brown, moist, very stiff, sandy SILT, trace clay, trace plant roots, rock fragments, (FILL)	1.8			I	4-7-8	2	DS	8	2. After several attempts Utility Locator failed to locate the 2nd combined sewer which runs adjacent to the proposed boring location. The depth of the sewer was determined to be below 10.0' by investigating the connecting sewer at Blagden Ave NW.
61.5	Orange-brown, moist, medium dense, clayey SAND, little gravel, trace - little silt, with rock fragments, (SC)	3.5			I	7-5-3	3	DS	18	3. Boring T-11 was terminated at a shallow depth of 5.0' to avoid encountering the crown of the un-found combined sewer within the vicinity of the boring.
60.0	Brown, moist, loose, micaceous silty SAND	5.0			I					4. Upon completion boring was backfilled with auger cuttings and surface was restored in-kind.
Bottom of Boring at 5.0 ft										

SAMPLER TYPE DS - DRIVEN SPLIT SPOON
SAMPLE CONDITIONS D - DISINTEGRATED
GROUNDWATER DEPTH AT COMPLETION _____ ft
BORING METHOD HSA - HOLLOW STEM AUGERS

STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30". COUNT MADE AT 6" INTERVALS

THOMAS L. BROWN ASSOCIATES, P.C.
A Division of Soil and Land Use Technology, Inc. Page 1 of 1

RECORD OF SOIL / ROCK EXPLORATION

Contracted With Stantec Consulting Services, Inc. Boring # T-12
 Project Name Rock Creek Park Multi-Use Trail Job # 12-034-PC
 Location Washington, DC

SAMPLER
 Datum _____ Hammer Wt. 140 lb Hole Diameter 6 in Foreman A. McCallister
 Surf. Elev. 60.5 ft Hammer Drop 30 in Rock Core Dia. N/A Inspector M. Tanner
 Date Started 2/13/13 Spoon Size 2 in Boring Method HSA Date Completed 2/13/13

ELEV. (ft)	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size Proportions	STRA DEPTH (ft)	SOIL SYMBOL	DEPTH SCALE	SAMPLE				BORING & SAMPLE NOTES	
					Cond	Blows/6"	No.	Type		
60.3	2" of TOPSOIL	0.2			I	3-2-2	1	DS	16	1. No water encountered
	Brown, moist, soft, sandy SILT, trace clay, trace gravel, trace roots, (POSSIBLE FILL)				D	1-2-1	2	DS	5	2. Sample 3: 2 attempts made to retrieve sample. 1st attempt = 3", 2nd attempt = 9".
	ROCK FRAGMENTS @ 5.0 FEET				D	2-2-2	3	DS	12	3. Upon completion boring was backfilled with auger cuttings and surface restored in-kind.
54.8	ROCK FRAGMENTS @ 5.0 FEET	5.8								
54.0	Brown, moist, very loose, silty SAND, trace gravel	6.5								
Bottom of Boring at 6.5 ft										

SAMPLER TYPE DS - DRIVEN SPLIT SPOON
SAMPLE CONDITIONS D - DISINTEGRATED
GROUNDWATER DEPTH AT COMPLETION _____ ft
BORING METHOD HSA - HOLLOW STEM AUGERS

STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30". COUNT MADE AT 6" INTERVALS

THOMAS L. BROWN ASSOCIATES, P.C.
A Division of Soil and Land Use Technology, Inc. Page 1 of 1

RECORD OF SOIL / ROCK EXPLORATION

Contracted With Stantec Consulting Services, Inc. Boring # T-13
 Project Name Rock Creek Park Multi-Use Trail Job # 12-034-PC
 Location Washington, DC

SAMPLER
 Datum _____ Hammer Wt. 140 lb Hole Diameter 6 in Foreman A. McCallister
 Surf. Elev. 87.0 ft Hammer Drop 30 in Rock Core Dia. N/A Inspector M. Tanner
 Date Started 2/13/13 Spoon Size 2 in Boring Method HSA Date Completed 2/13/13

ELEV. (ft)	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size Proportions	STRA DEPTH (ft)	SOIL SYMBOL	DEPTH SCALE	SAMPLE				BORING & SAMPLE NOTES	
					Cond	Blows/6"	No.	Type		
86.6	2" of TOPSOIL	0.2			I/D	2-2-5	1	DS	6	1. No water encountered
85.0	Dark brown, moist, loose, silty SAND, little clay, trace little gravel, trace roots, trace wood fragments, trace asphalt, (FILL)	2.0			I/D	3-7-12	2	DS	10	2. Boring offset 10.5' west to clear the combined sewer utility marks.
	Brown, moist, medium dense, silty SAND, trace gravel, little rock fragments				D	4-5-6	3	DS	15	3. Ground surface surrounding the boring location consisted of a gravelly sand.
80.5		6.5								4. Upon completion boring was backfilled with auger cuttings and surface was restored in-kind.
Bottom of Boring at 6.5 ft										

SAMPLER TYPE DS - DRIVEN SPLIT SPOON
SAMPLE CONDITIONS D - DISINTEGRATED
GROUNDWATER DEPTH AT COMPLETION _____ ft
BORING METHOD HSA - HOLLOW STEM AUGERS

STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30". COUNT MADE AT 6" INTERVALS

Thursday, September 12, 2013 AT 03:39 PM
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NO.	DESCRIPTION	NAME	DATE
REVISIONS			

D.C. DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION
 PROJECT MANAGEMENT DIVISION

ROCK CREEK PARK
 MULTI-USE TRAIL REHABILITATION
 30% DESIGN SUBMITTAL

PROJECT ENG. _____
 DESIGNED BY _____
 CHECKED BY _____
 DRAWN BY _____
 PROJECT MGR. _____

DATE: 09-13-2013

BORING LOGS

BL-08
 DIVISION CHIEF

DATE _____
 FILE _____
 SHEET 124 OF 124