







Single Event Design Storm: Annual Stormwater Capture:

85th P. 24-hr Storm, 162.2cfs Peak Flow, 74 AF Volume 840 AF/YR (10-YR Modeling Average)

Proposed System

SEITEC

Valley Plaza Park Stormwa

Valley Plaza Park Stormwater Project StormTunnel Alternative

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EARTHWORK

Description	Unit	Quantity
Excavation	CY	38,670
Hauling	CY	33,507
Backfill & Compaction	CY	9,149
Gravel Backfill	CY	3,031
Total	CY	84,356

SCOPE OF WORK

Item	Description	Unit	Quantity	Drawings
1	Tunnel - 12' ID with segmental concrete liners	LF	5,075	A1, A2, A3, A5, and A6
2	Drywells - Embeded in tunnel @ 50-ft spacing with surface access	EA	88	A1, A7
3	Obermeyer Gate - 14' W x 3.0' H steel gate operated by inflatable bladder	EA	1	A9
4	Diversion Channel - 12' W x 8' L x 2.5' D concrete with trash screen	EA	1	A9, A10
5	Side Channel Inlet - 3.0' H x 8' W opening in channel wall with trash screen	EA	1	A9, A10
6	Transition Structure - 7' W x 8' L x 7' H concrete box with coned 4' diameter access	EA	1	A9, A10
7	Manholes - Five manholes; two 8-ft, and three 6-ft diameter each with coned 4-ft diam access	EA	5	A1, A9
8	RCP Piping: 45 LF of 60", 45 LF of 54", 44 LF of 48", and 60 LF of 30"	LF	194	A1
9	Hydrodynamic Separator - 10' diam. Hydro Interntaional "Downstream Defender"	EA	10	A12
10	Sediment Filter - 8'-W x 14' L Hydro International "Hydro Dry Screen"	EA	5	A11
11	Park Components - Restoration to original	LS	1	N/A
12	Instrumentation and Lighting - Solar powered flow and level meter at diversion structure, plus level meter for each tunnel	LS	1	N/A

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Index and Scope

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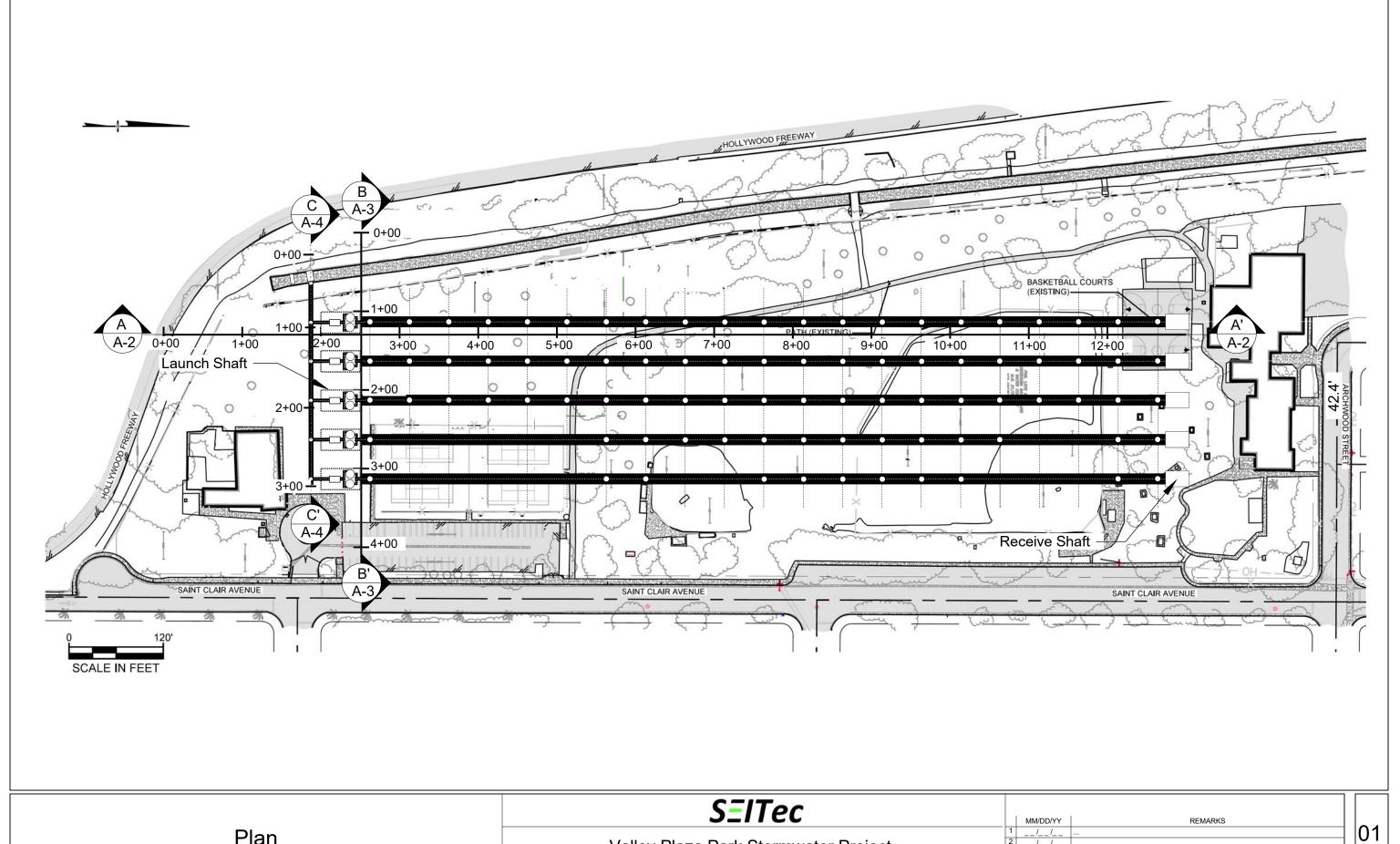
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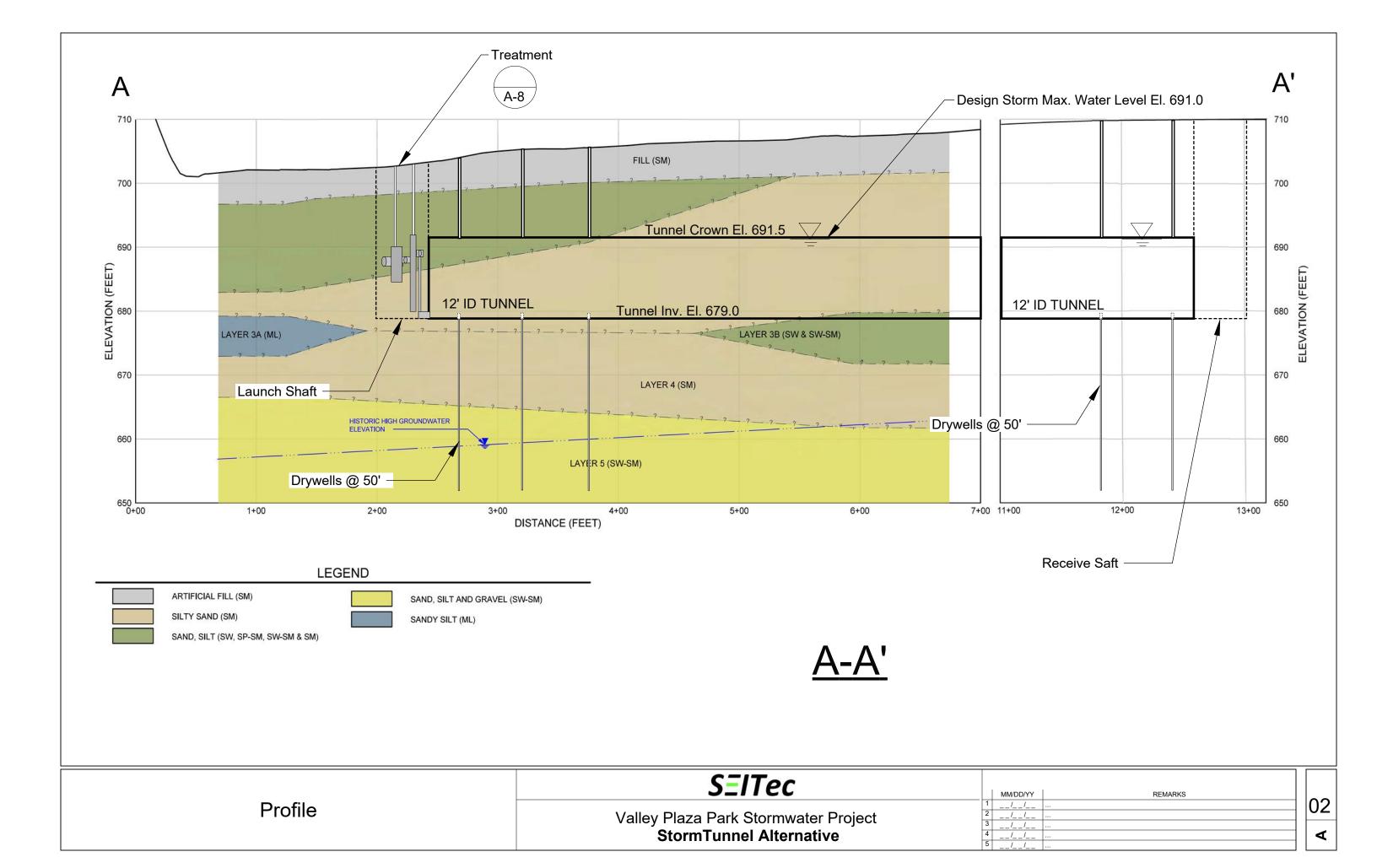
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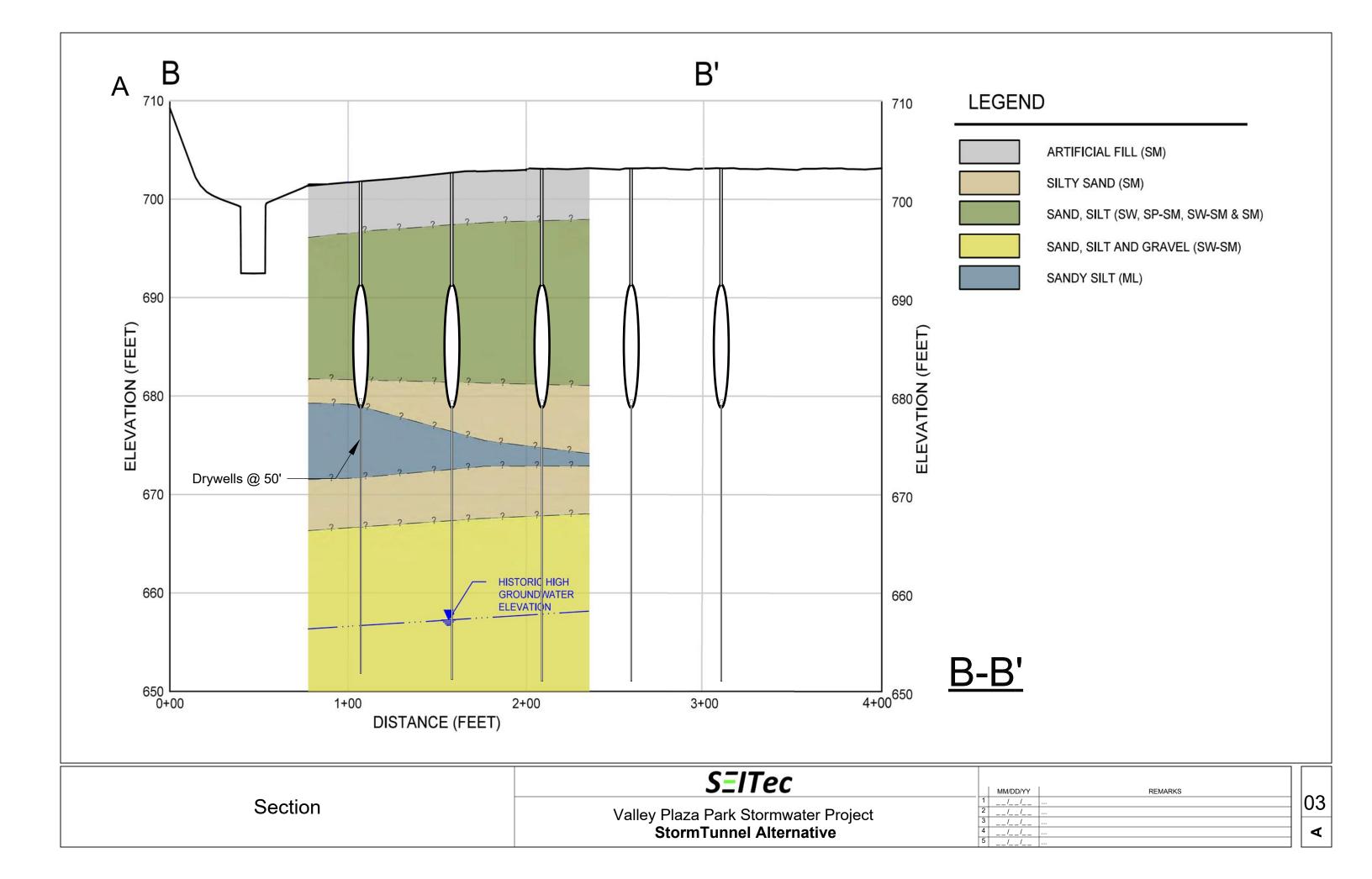
Valley Plaza Park Stormwater Project
StormTunnel Alternative

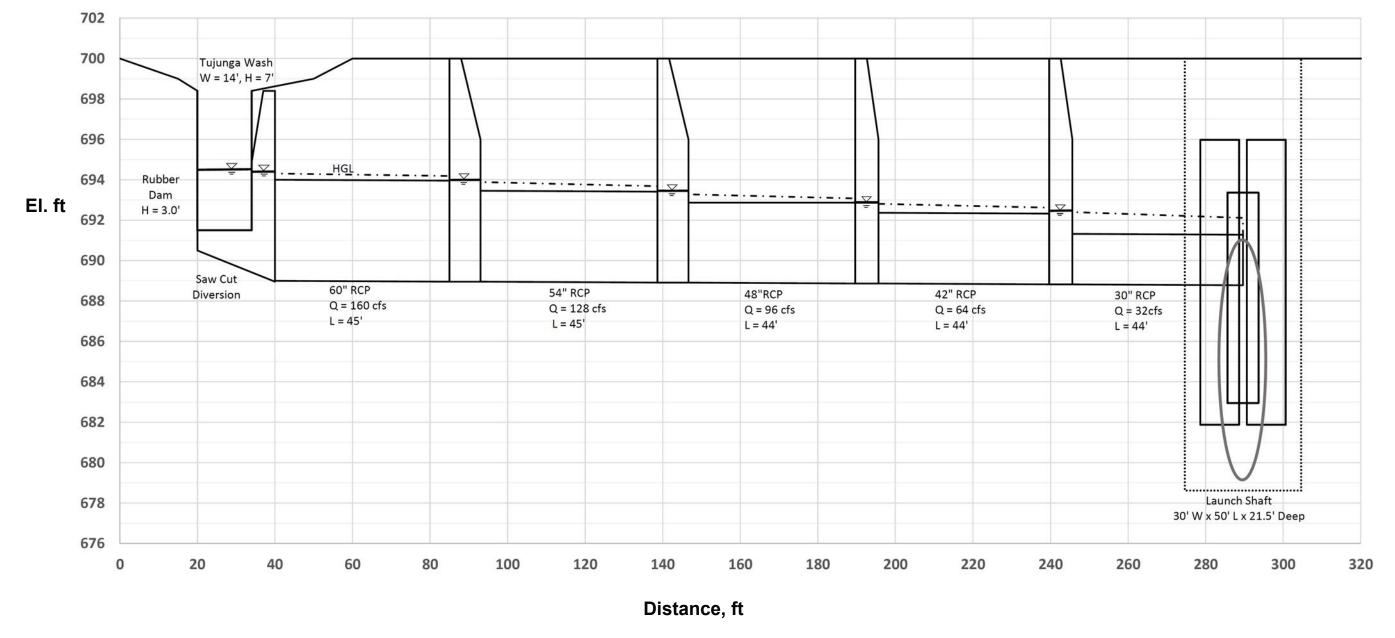
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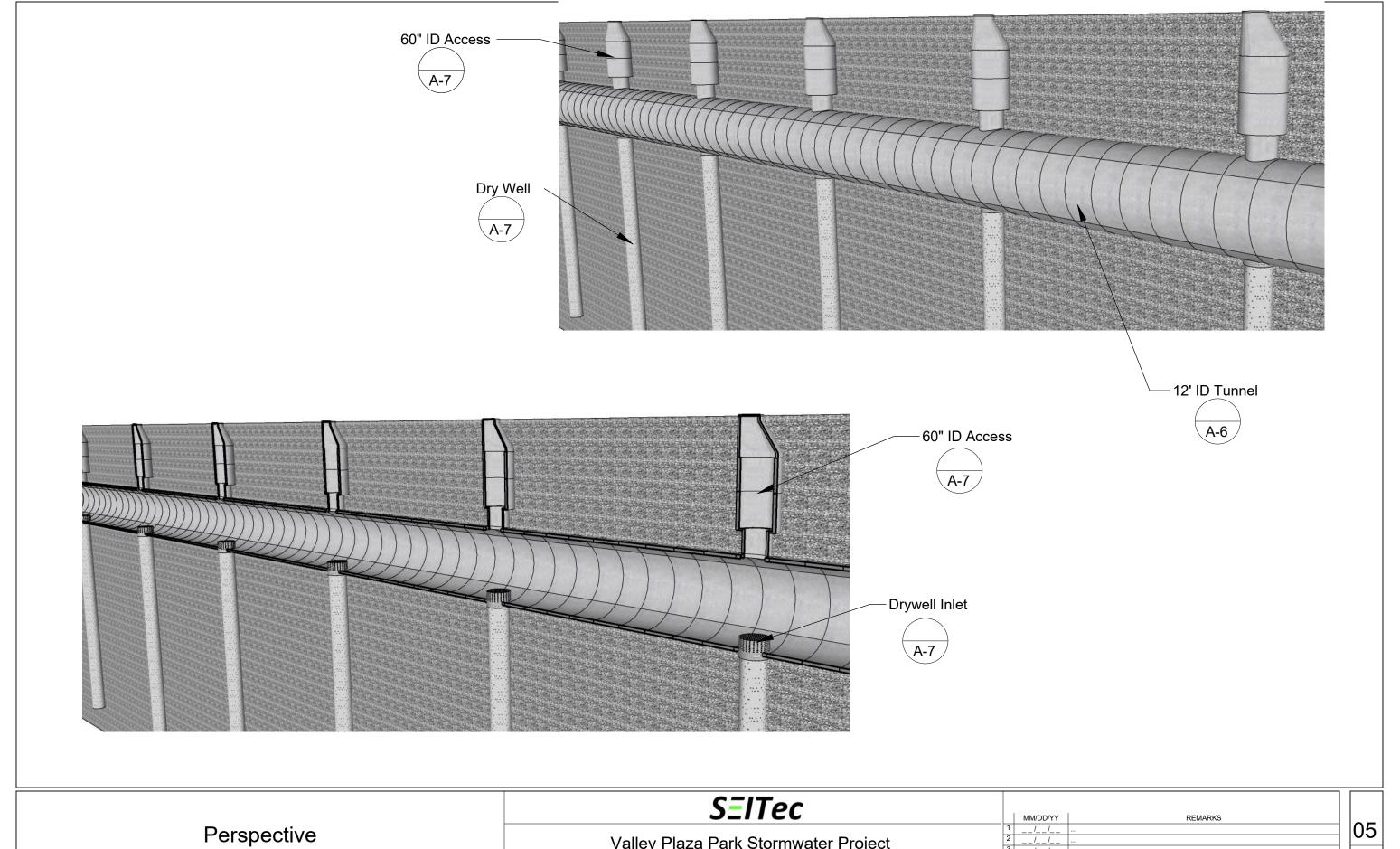
Plan Valley Plaza Park Stormwater Project StormTunnel Alternative



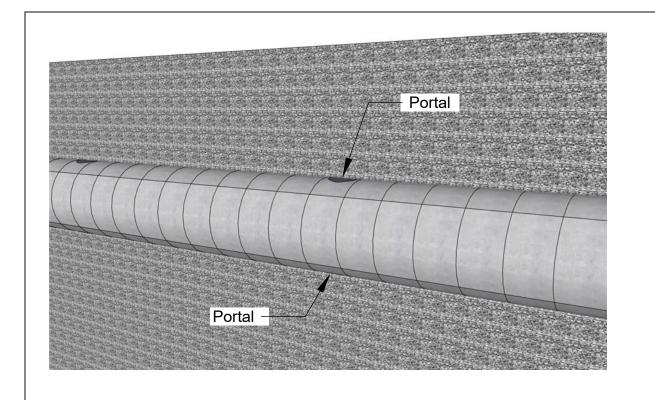


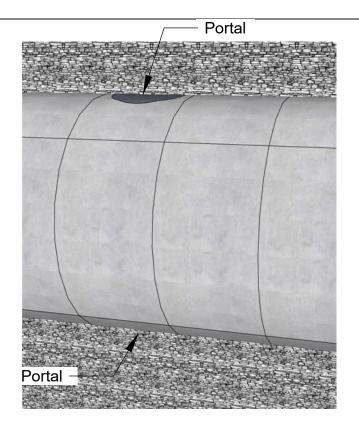


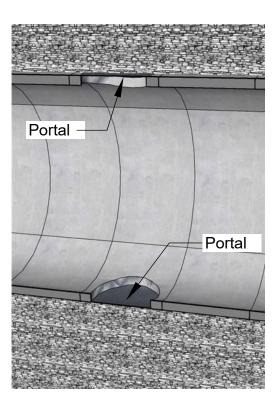
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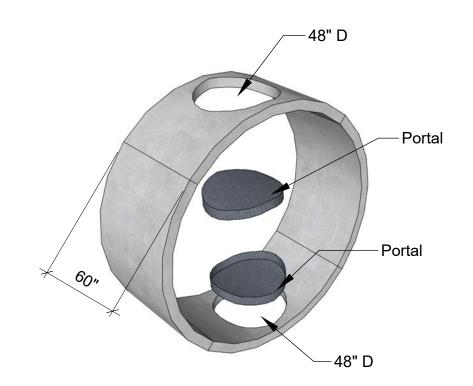
Valley Plaza Park Stormwater Project StormTunnel Alternative











Tunnel Details

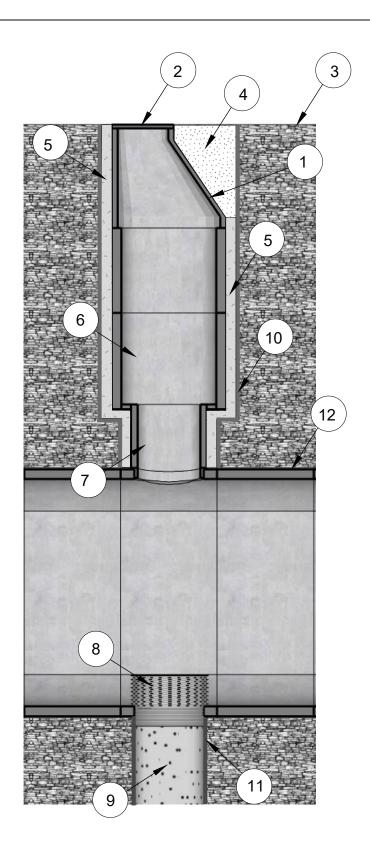
Valley Plaza Park Stormwater Project StormTunnel Alternative

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() ITEM NUMBERS

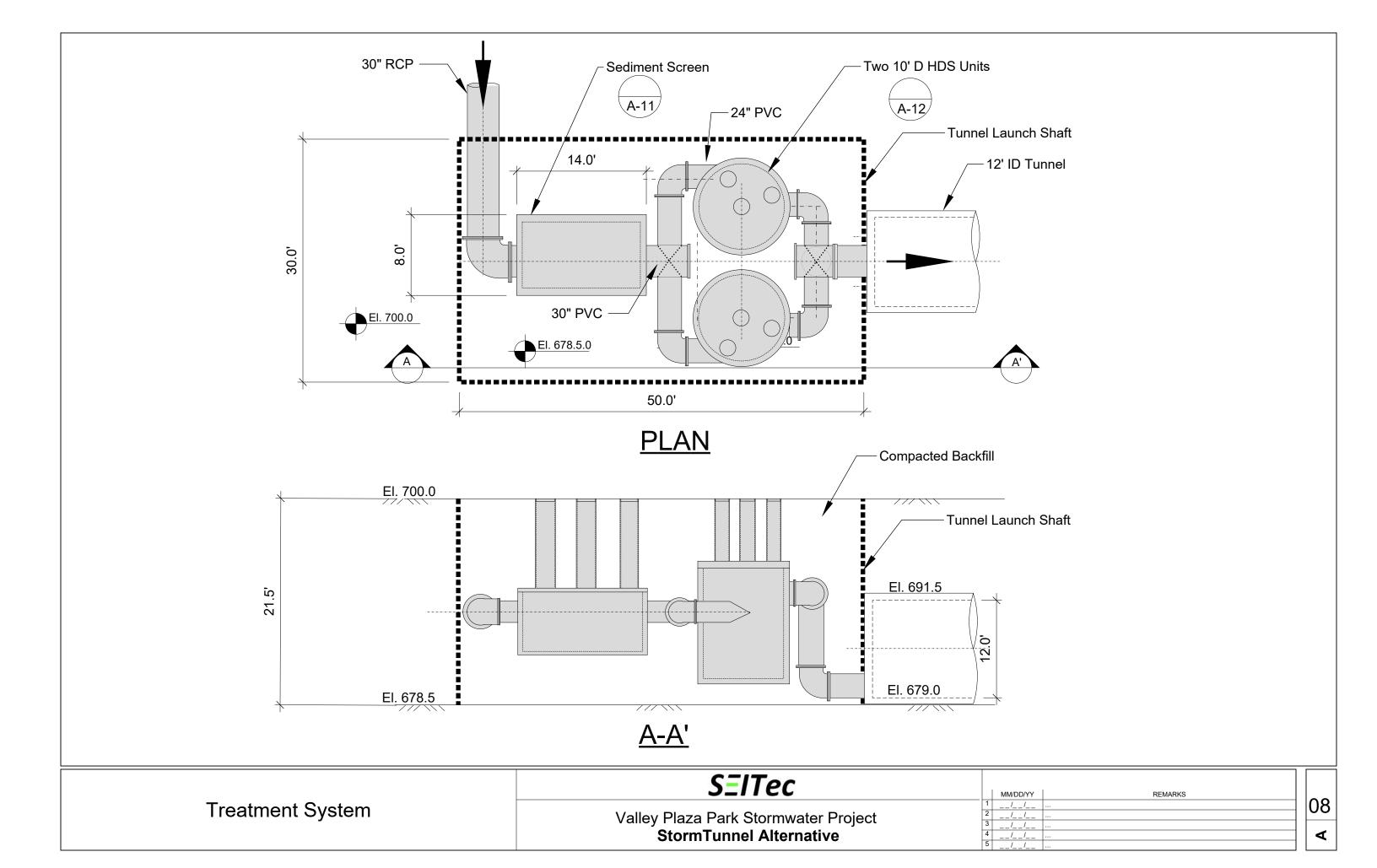
- 1. 60" ID Precast Manhole Cone
- 2. Bolted Ring & Cover
- 3. Final Grade
- 4. Compacted Backfill
- 5. Poured Concrete
- 6. 60" ID Precast Manhole Shaft
- 7. 48" OD Precast Pipe Connector to Tunnel
- 8. 48" OD Slotted Corrugated HDPE Pipe, Min. 18" Tall with Filter Fabric Cover
- 9. Crushed Rock 3/8" and 1-1/2" per Native Soil
- 10. 72" Diam. Drilled Shaft
- 11. 48" Diam. Drilled Shaft, 75' Deep
- 12. Tunnel Liner Segment, 5-ft W, 12-ft ID

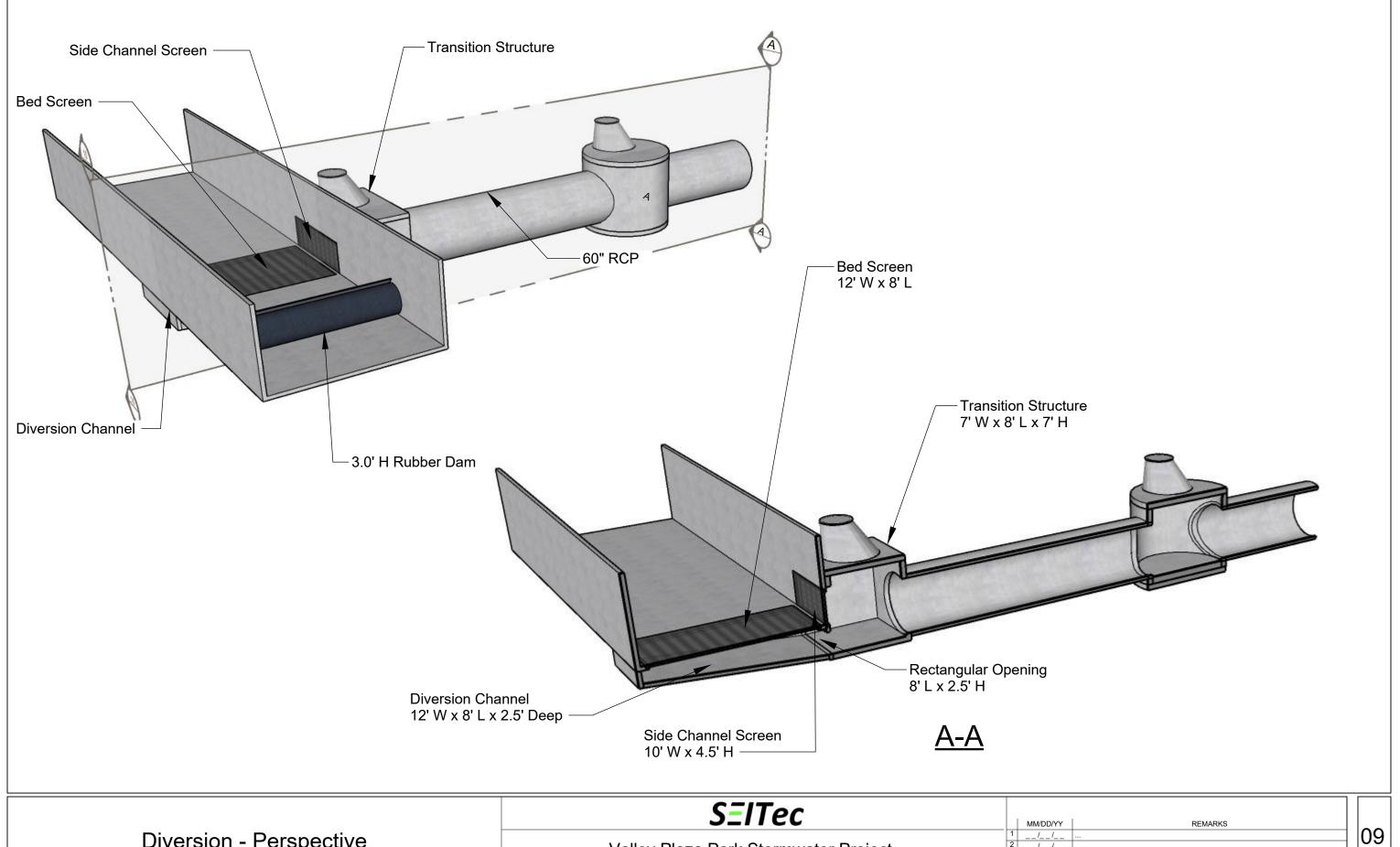


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Valley Plaza Park Stormwater Project
StormTunnel Alternative

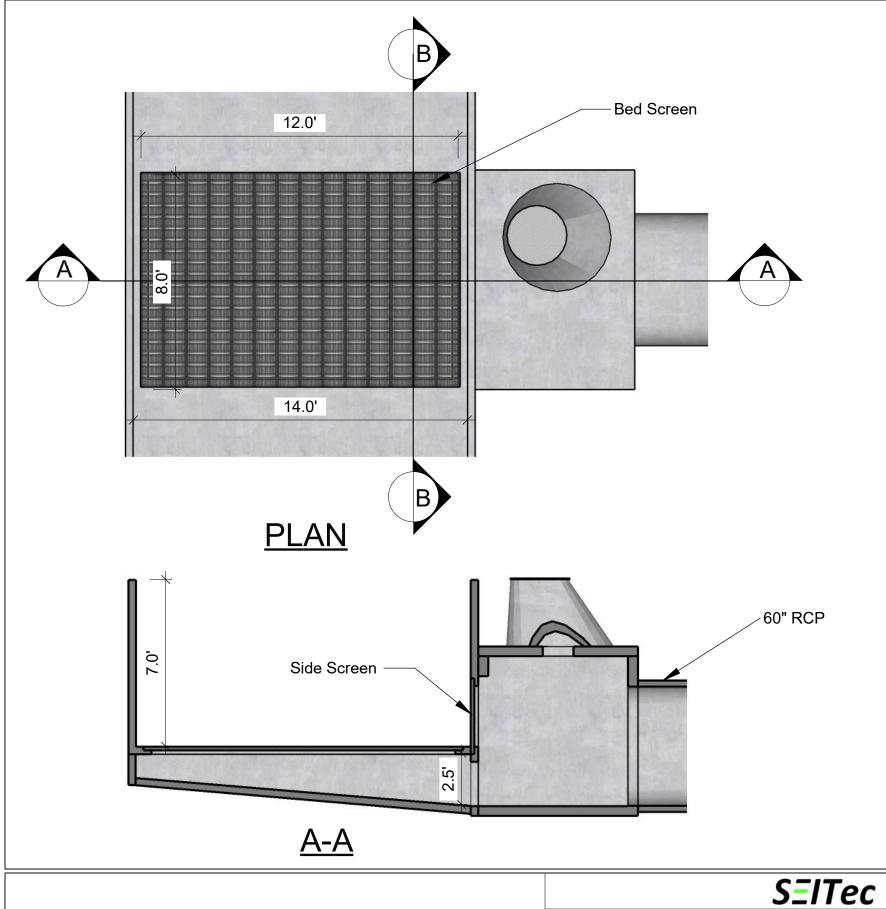
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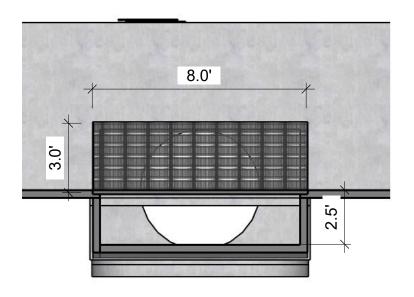




Diversion - Perspective

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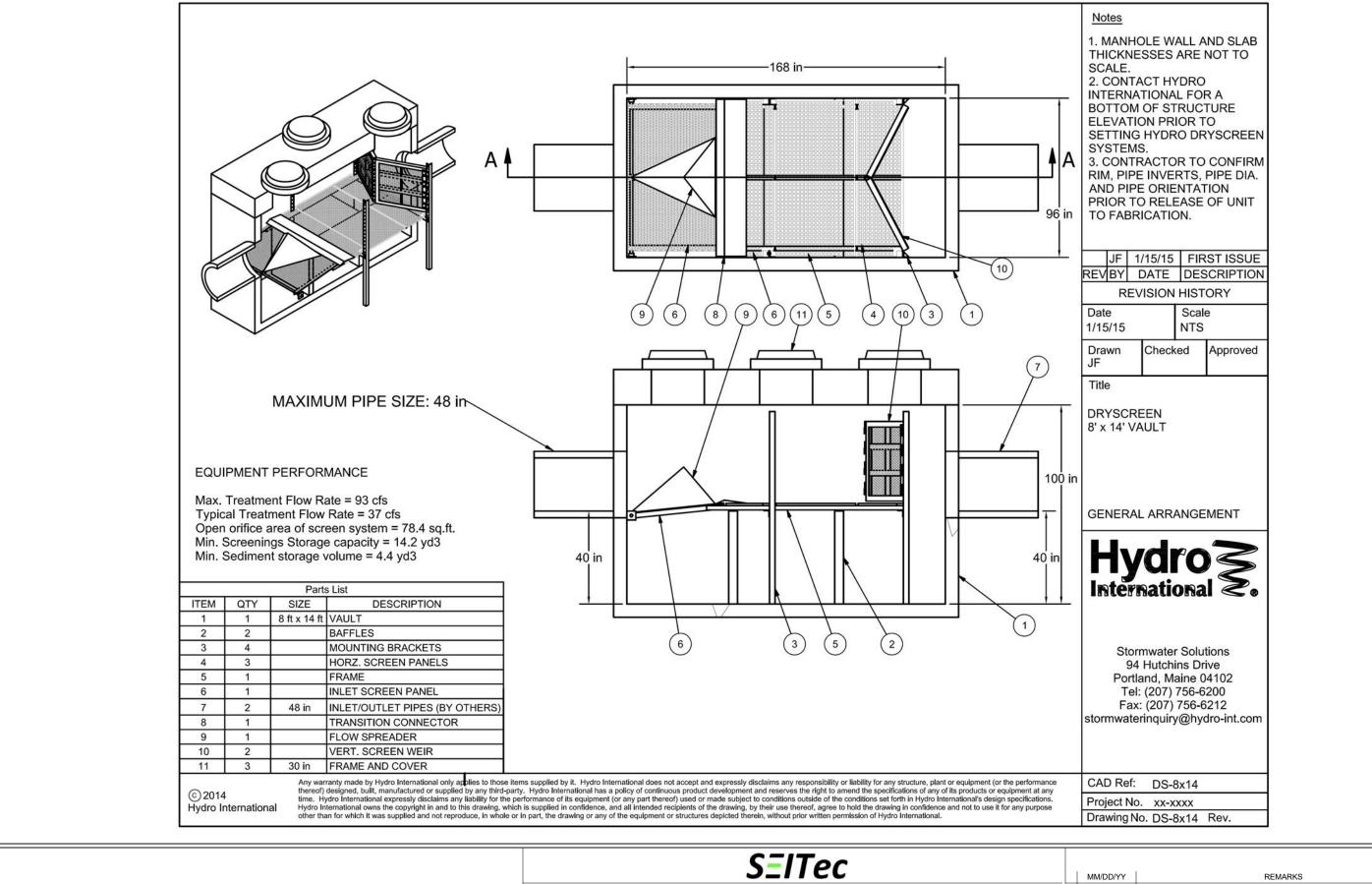
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Diversion - Plan and Sections

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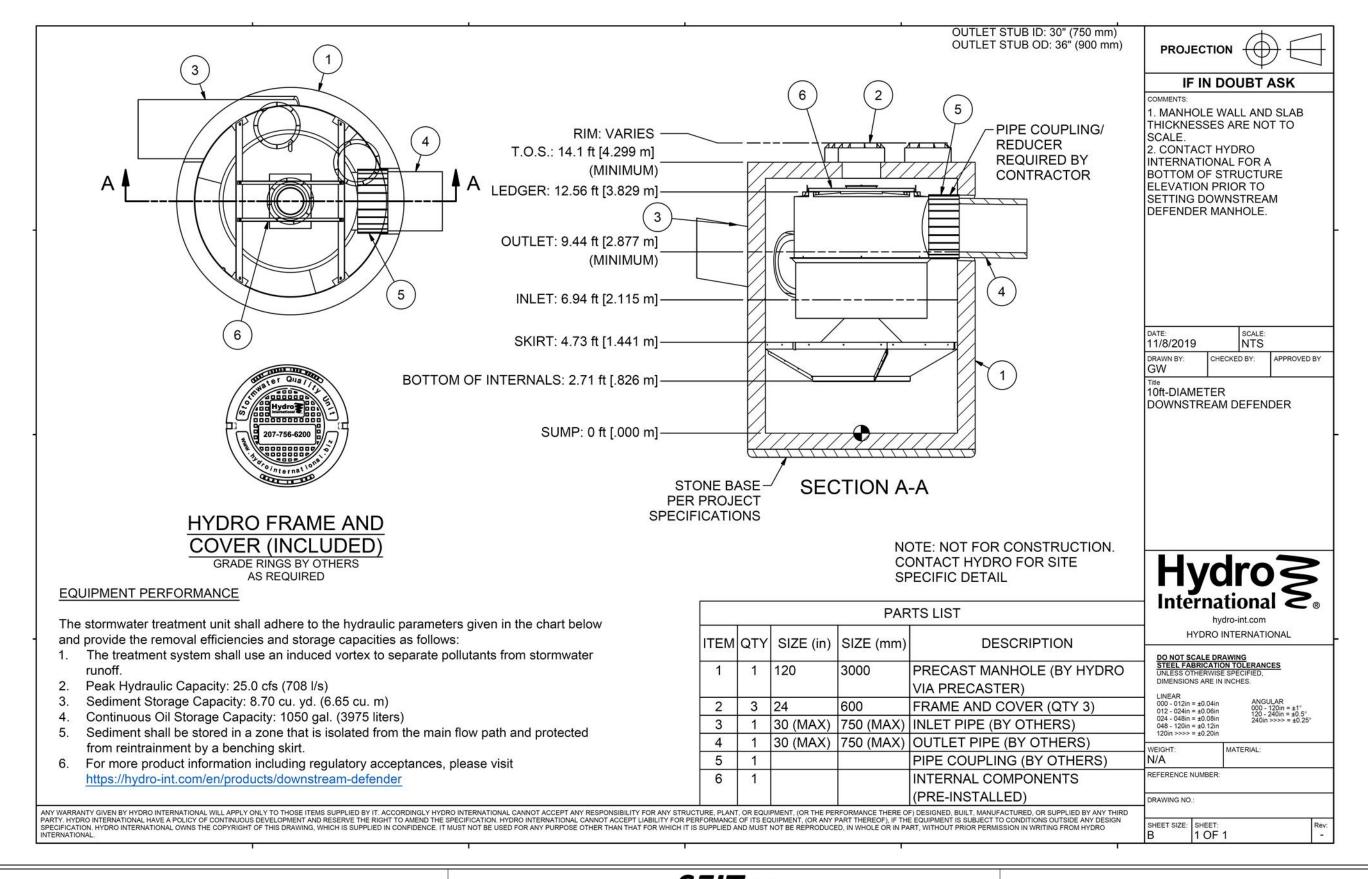
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Sediment Filter

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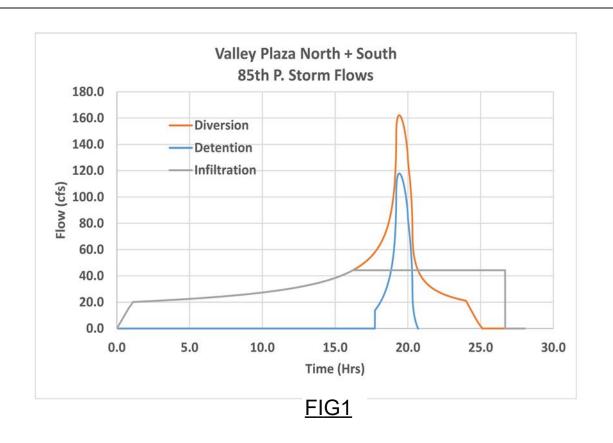


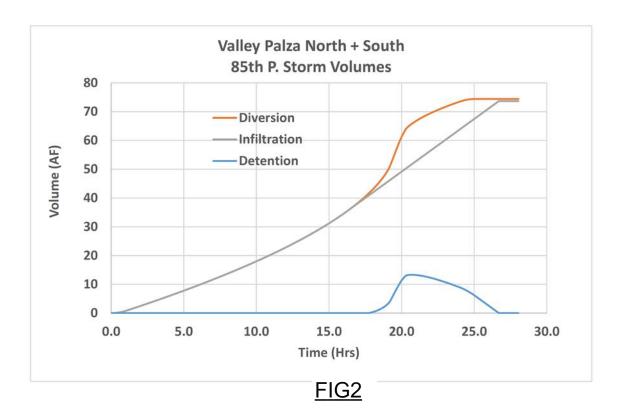
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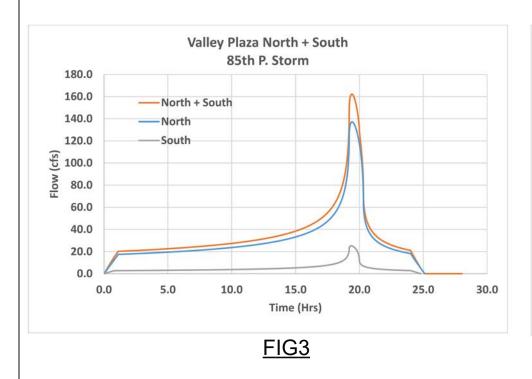
Hydrodynamic Separator

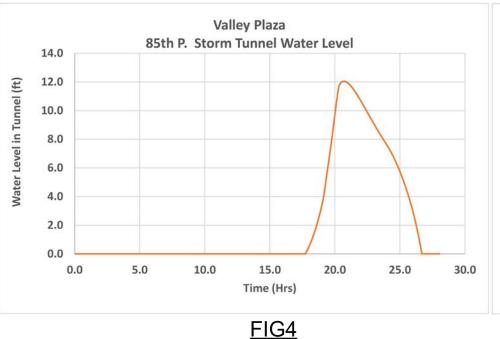
Valley Plaza Park Stormwater Project **StormTunnel Alternative**

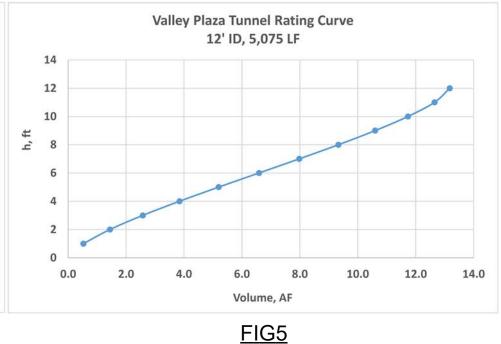
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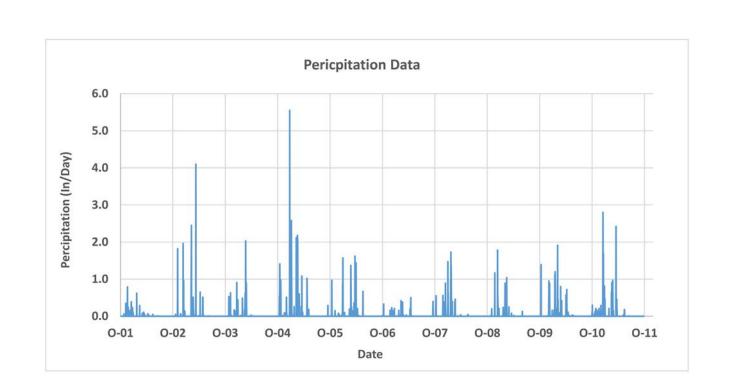


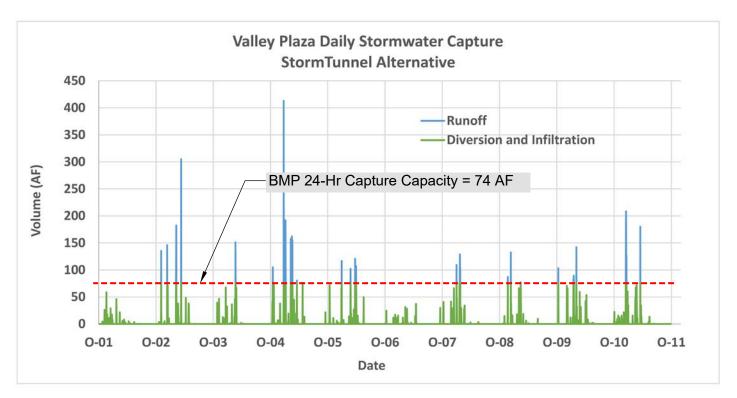
Modeling Results 85th P. 24-hr Storm S**EIT**ec

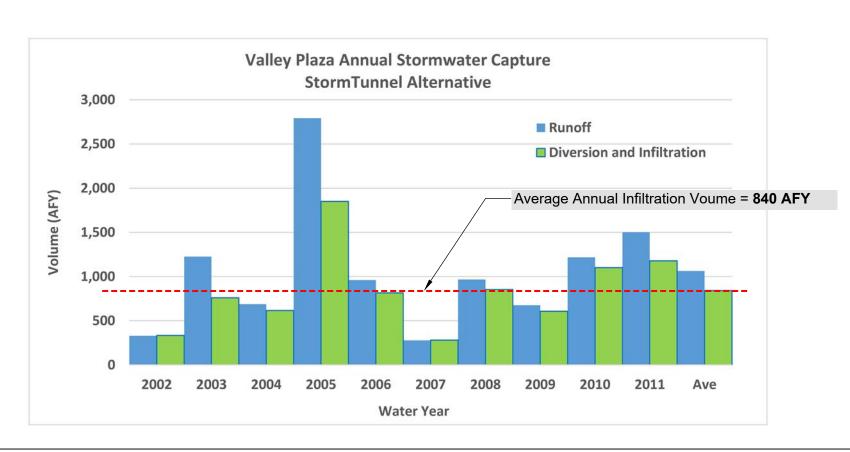
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Modeling Results
10-yr Daily and Annual Capture

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