LEGEND:

IMPROVED PATH

MOONWART BRIDGE

ACCESS POINT

ACCESS TRAIL AND MOONWART BRIDGE

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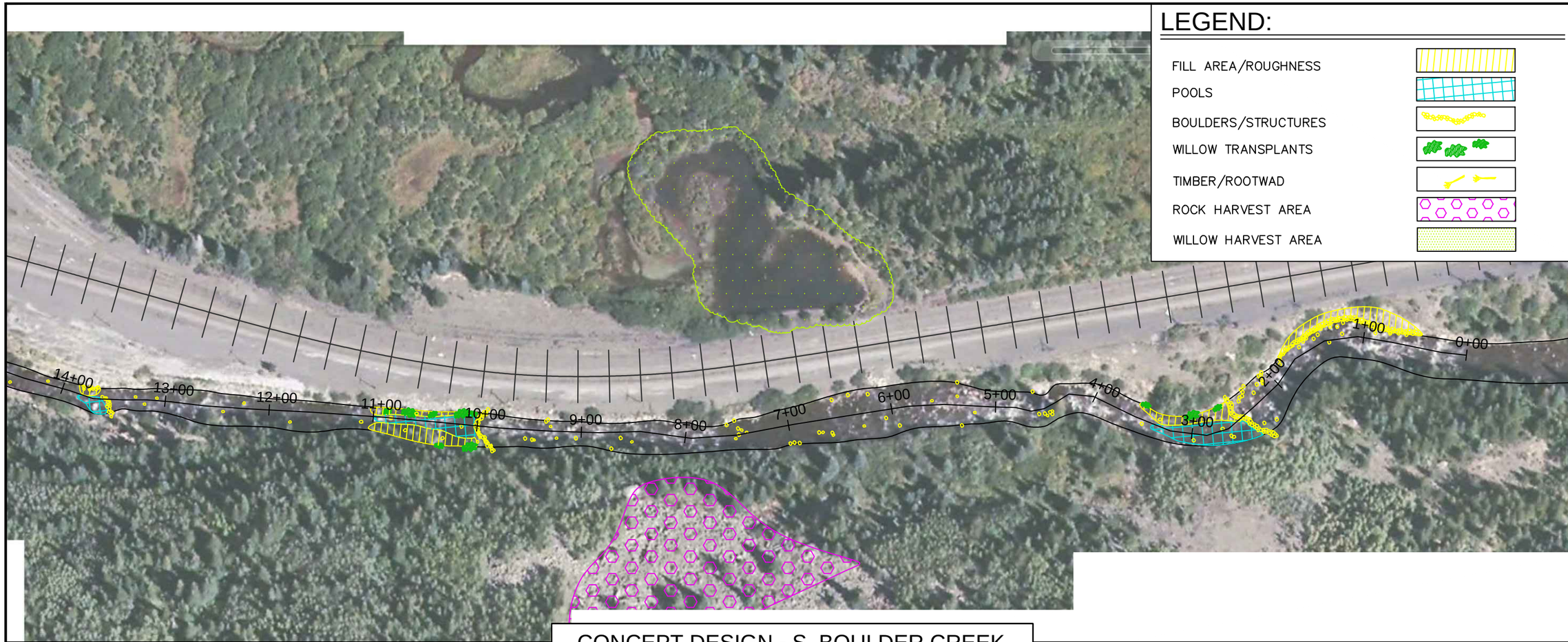
CONCEPT DESIGN
IMPROVED TRAIL
AND MOONWART BRIDGE

CONCEPTUAL IMPROVEMENTS
SITE 1 - MOFFAT TUNNEL
SOUTH BOULDER CREEK
GILPIN COUNTY, COLORADO

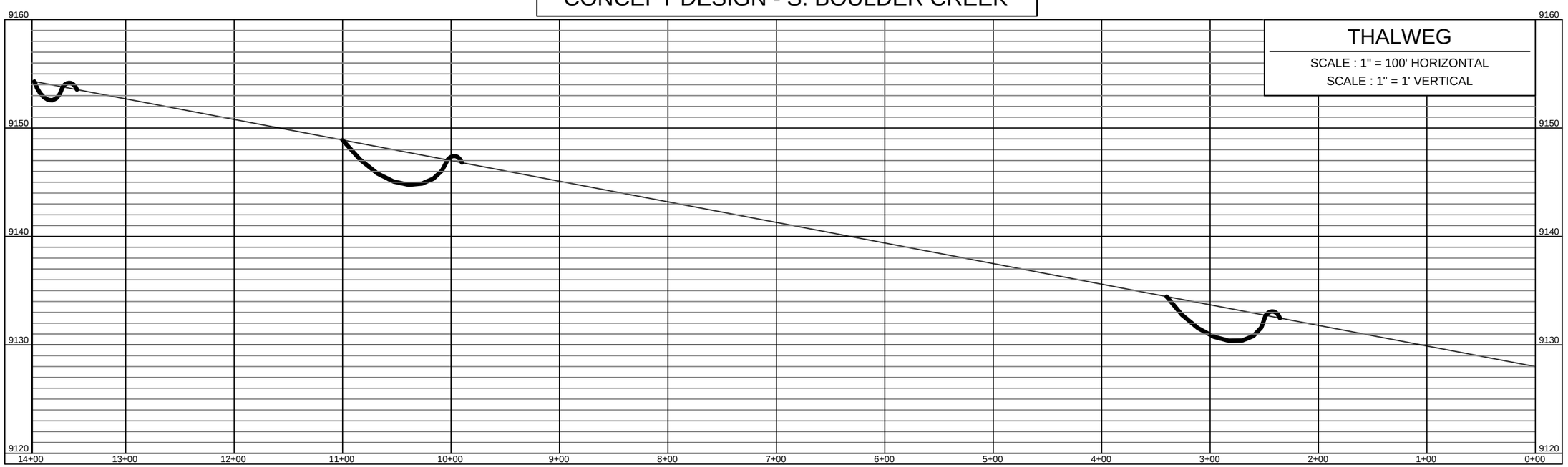
T

PL. SCALE: 1"=100'
DATE: MAY 2013

Y:\FlyWater Projects and Promo\197-100 Walsh\USBC\DWG\ConceptDes.dwg 6/14/2013



CONCEPT DESIGN - S. BOULDER CREEK



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CONCEPT DESIGN
AQUATIC HABITAT IMPROVEMENT
PLAN & PROFILE

CONCEPTUAL IMPROVEMENTS
SITE 1 - MOFFAT TUNNEL
SOUTH BOULDER CREEK
GILPIN COUNTY, COLORADO

1A

PL. SCALE: 1"=100'
DATE: MAY 2013

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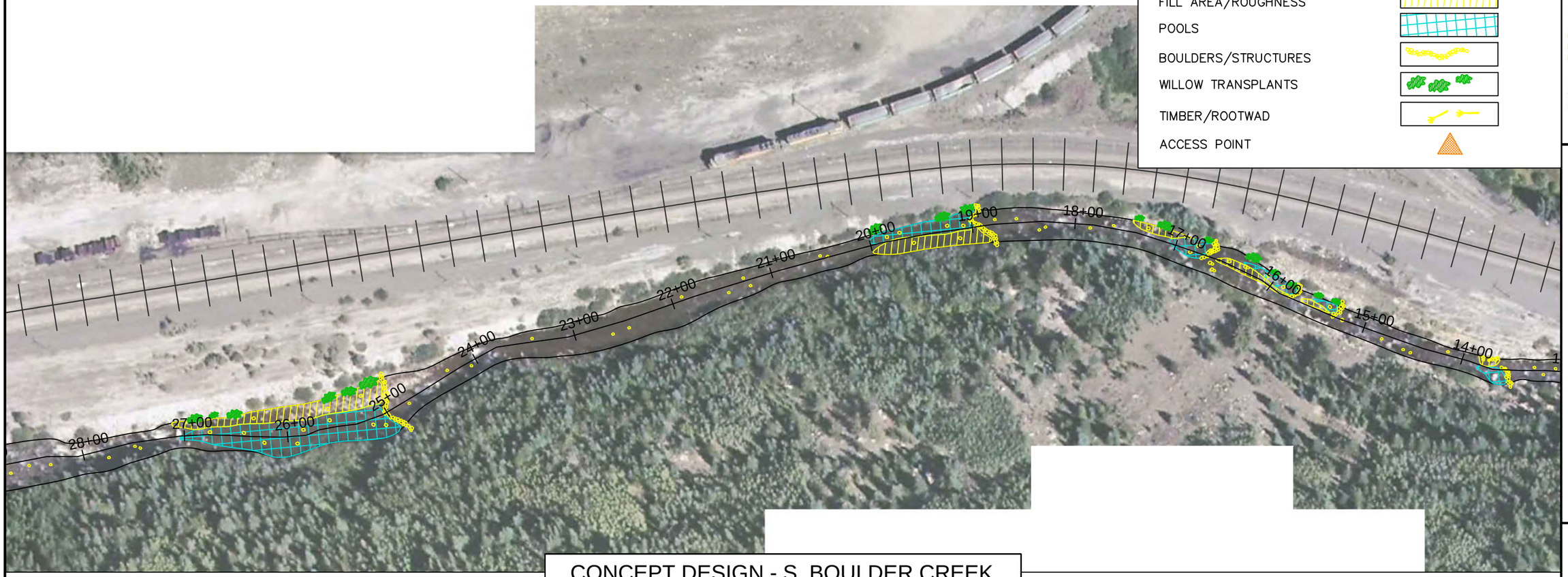
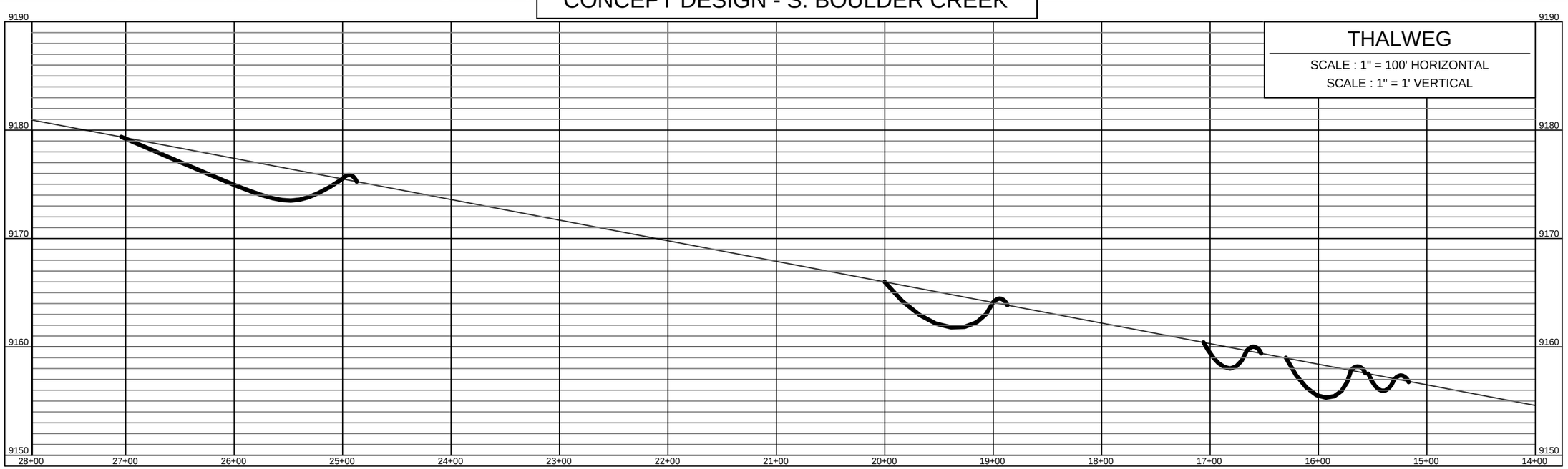
LEGEND:

- FILL AREA/ROUGHNESS
- POOLS
- BOULDERS/STRUCTURES
- WILLOW TRANSPLANTS
- TIMBER/ROOTWAD
- ACCESS POINT



CONCEPT DESIGN - S. BOULDER CREEK



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CONCEPT DESIGN
AQUATIC HABITAT IMPROVEMENT
PLAN & PROFILE

CONCEPTUAL IMPROVEMENTS
SITE 1 - MOFFAT TUNNEL
SOUTH BOULDER CREEK
GILPIN COUNTY, COLORADO

1B

PL. SCALE: 1"=100'
DATE: MAY 2013

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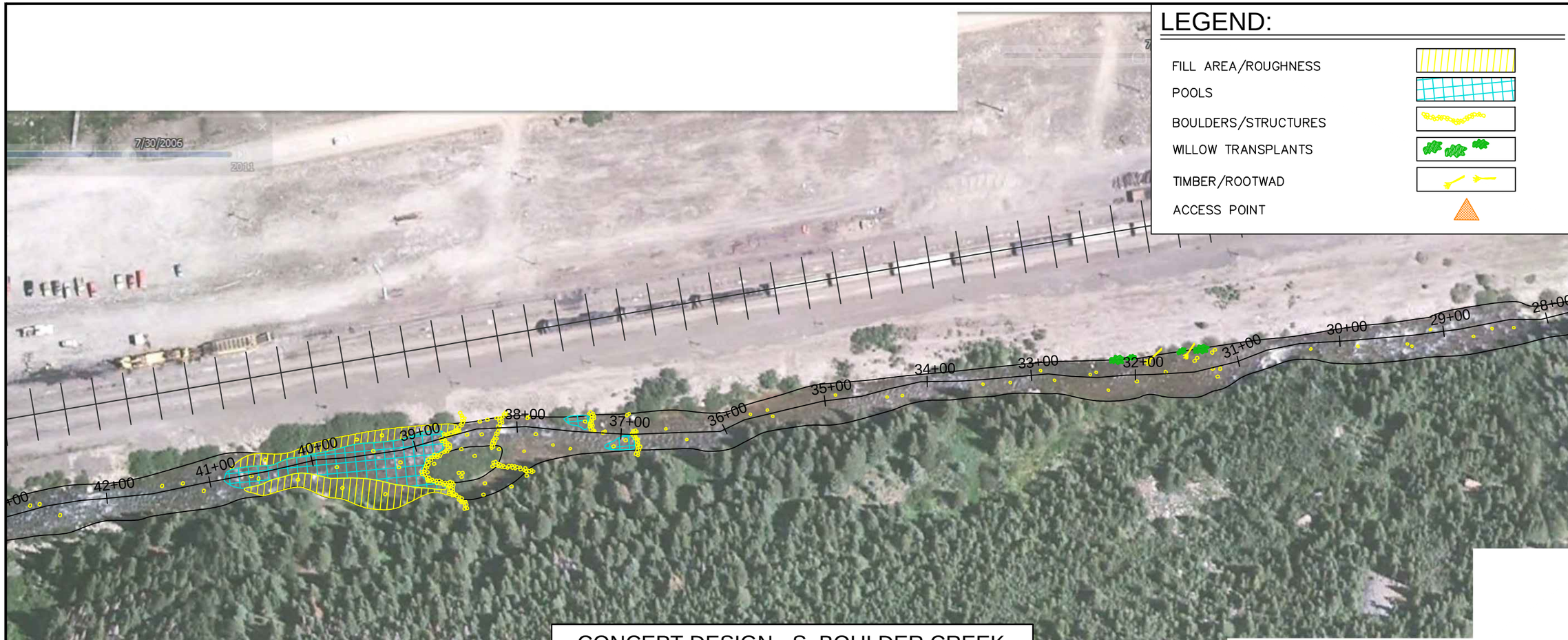
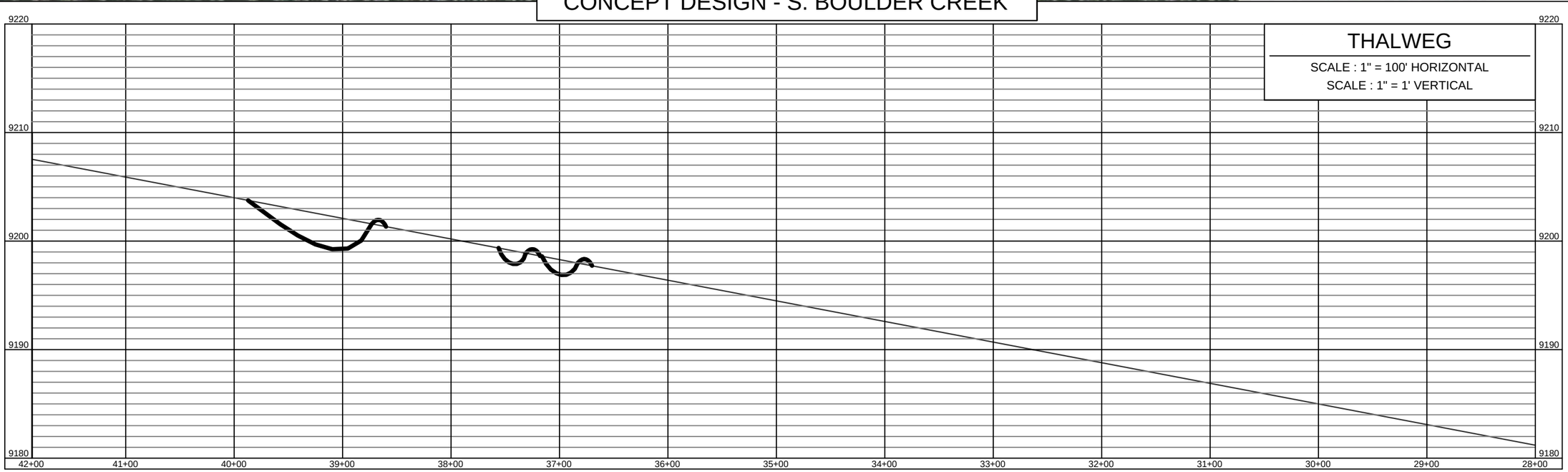


CONCEPT DESIGN - S. BOULDER CREEK



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CONCEPT DESIGN
AQUATIC HABITAT IMPROVEMENT
PLAN & PROFILE

CONCEPTUAL IMPROVEMENTS
SITE 1 - MOFFAT TUNNEL
SOUTH BOULDER CREEK
GILPIN COUNTY, COLORADO

1C

PL. SCALE: 1"=100'
DATE: MAY 2013

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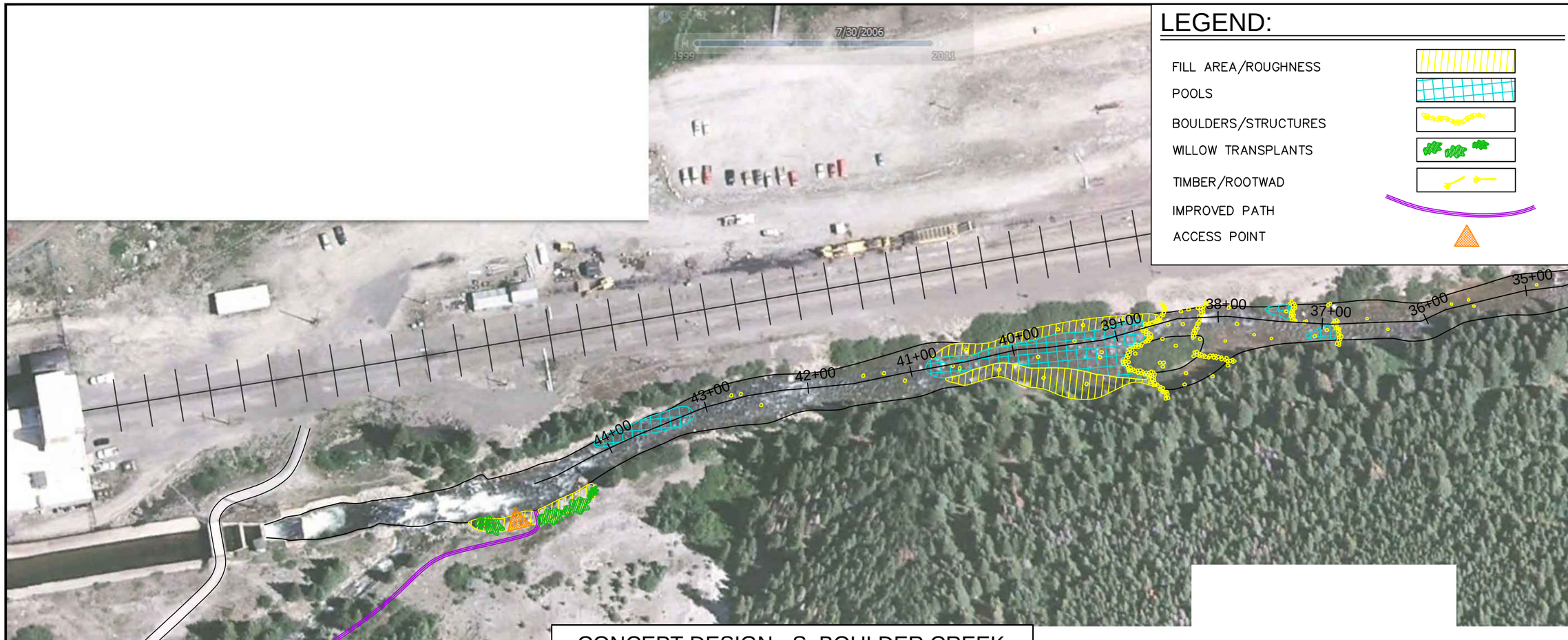
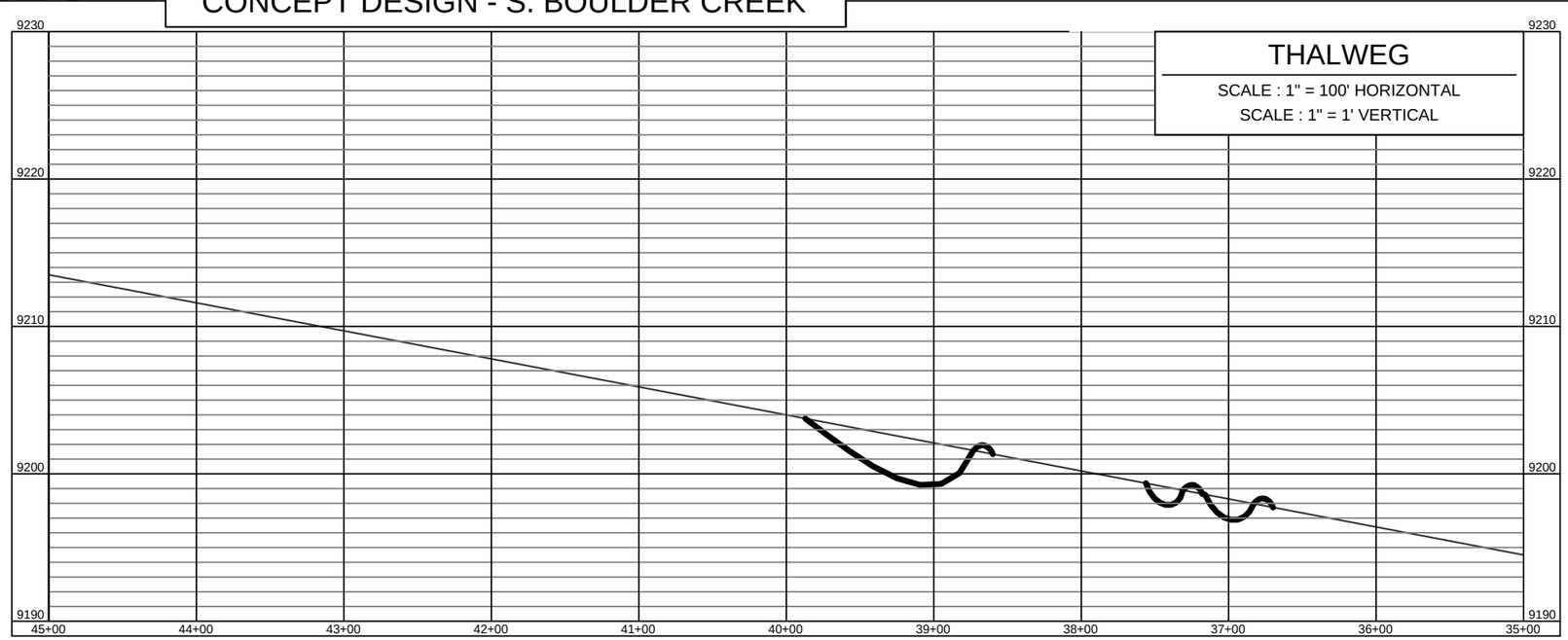


CONCEPT DESIGN - S. BOULDER CREEK



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CONCEPT DESIGN
AQUATIC HABITAT IMPROVEMENT
PLAN & PROFILE

CONCEPTUAL IMPROVEMENTS
SITE 1 - MOFFAT TUNNEL
SOUTH BOULDER CREEK
GILPIN COUNTY, COLORADO

1D

PL. SCALE: 1"=100'
DATE: MAY 2013

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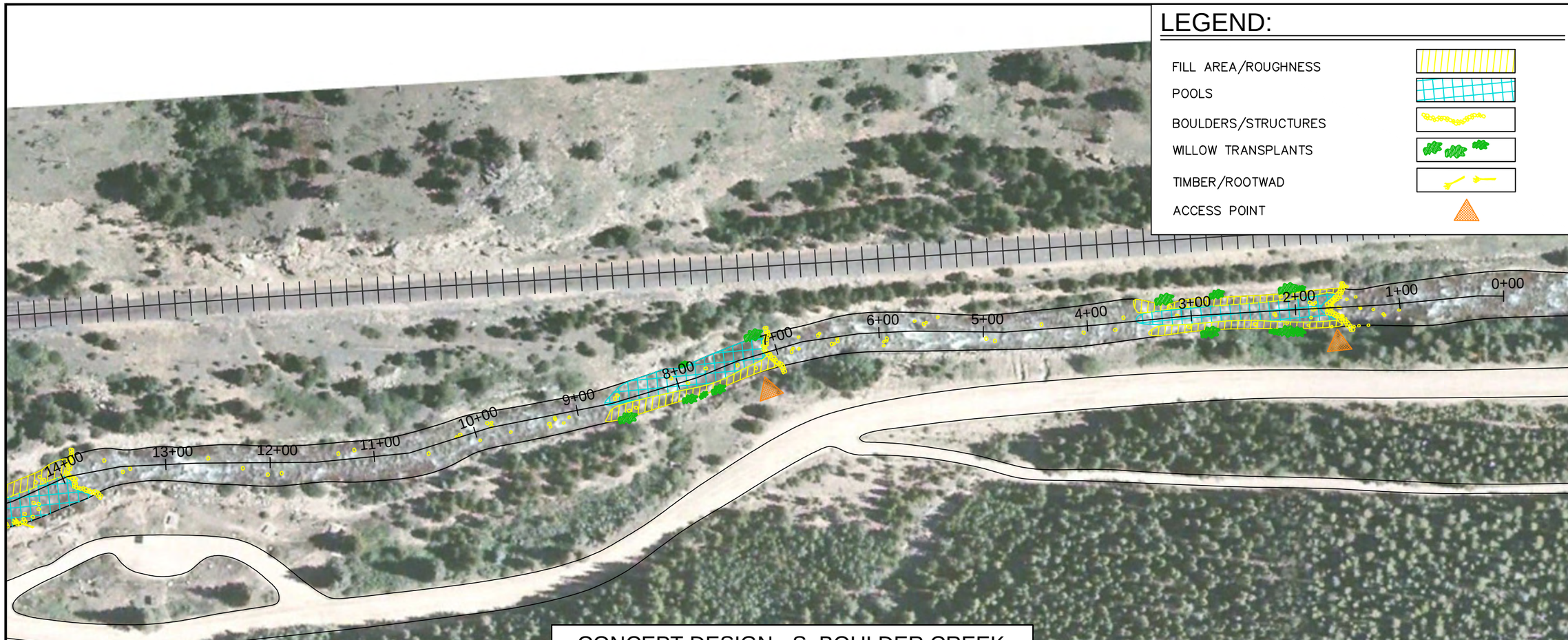
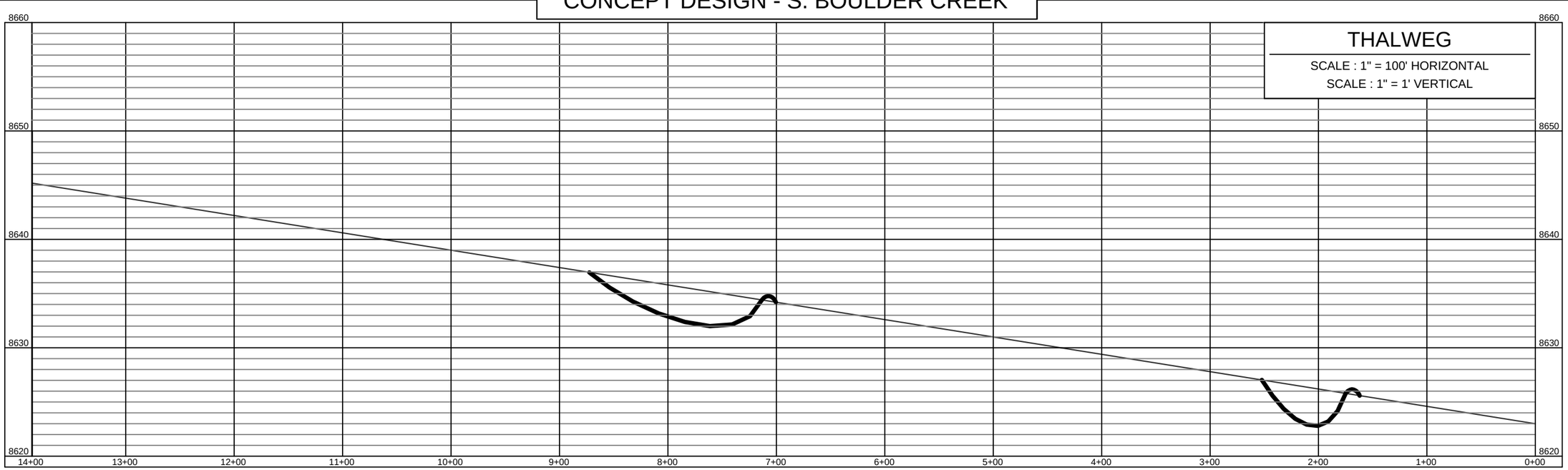


CONCEPT DESIGN - S. BOULDER CREEK



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CONCEPT DESIGN
AQUATIC HABITAT IMPROVEMENT
PLAN & PROFILE

CONCEPTUAL IMPROVEMENTS
SITE 2 - JUMBO MOUNTAIN
SOUTH BOULDER CREEK
GILPIN COUNTY, COLORADO

2A

PL. SCALE: 1"=100'
DATE: MAY 2013

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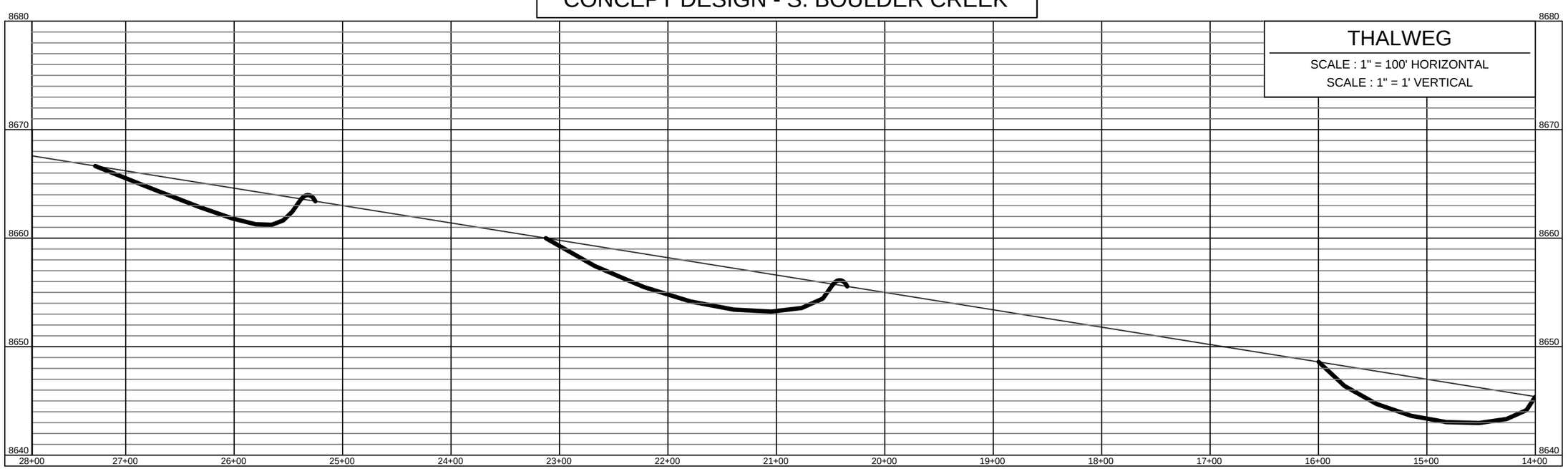
CONCEPT DESIGN - S. BOULDER CREEK



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CONCEPT DESIGN
AQUATIC HABITAT IMPROVEMENT
PLAN & PROFILE

CONCEPTUAL IMPROVEMENTS
SITE 2 - JUMBO MOUNTAIN
SOUTH BOULDER CREEK
GILPIN COUNTY, COLORADO

2B

PL. SCALE: 1"=100'
DATE: MAY 2013

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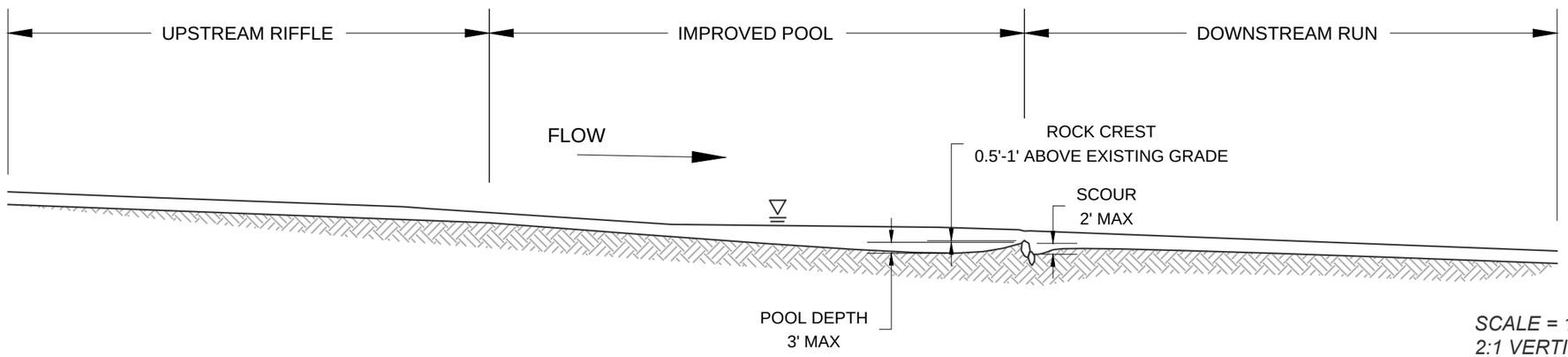
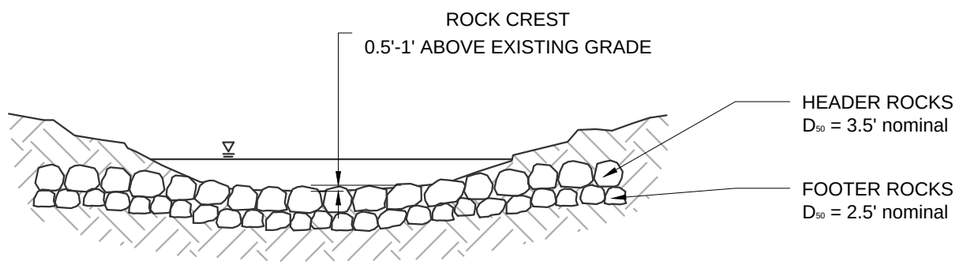
TYPICAL RIFFLE - POOL - RUN IMPROVEMENT PROFILE



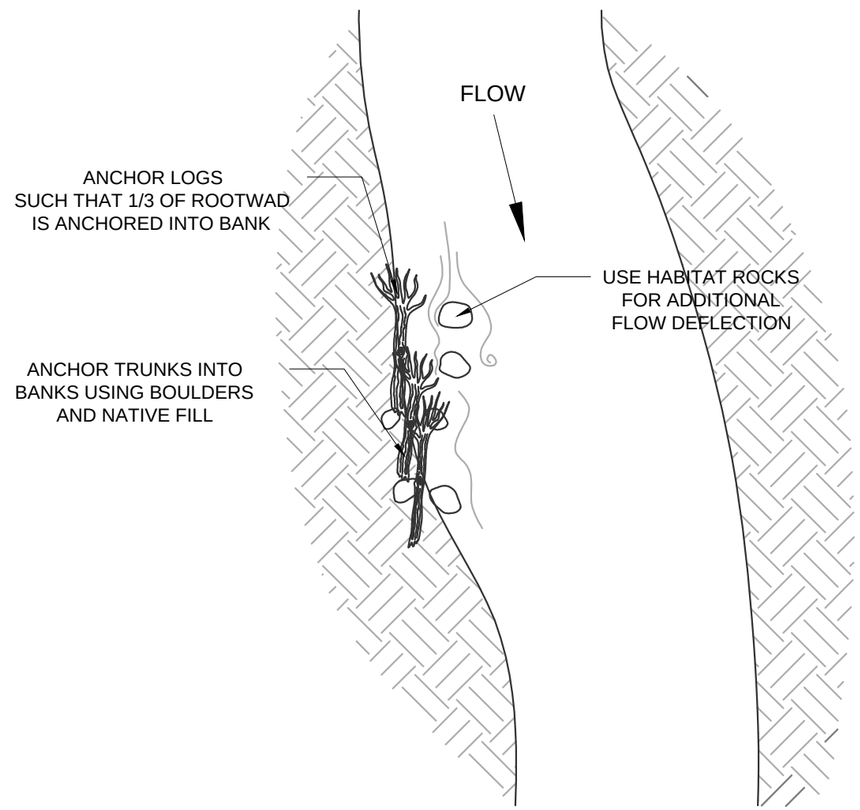
SCALE = 1" = 50' HORIZONTAL
2:1 VERTICAL EXAGGERATION

TYPICAL CROSS CHANNEL STRUCTURE - SECTION



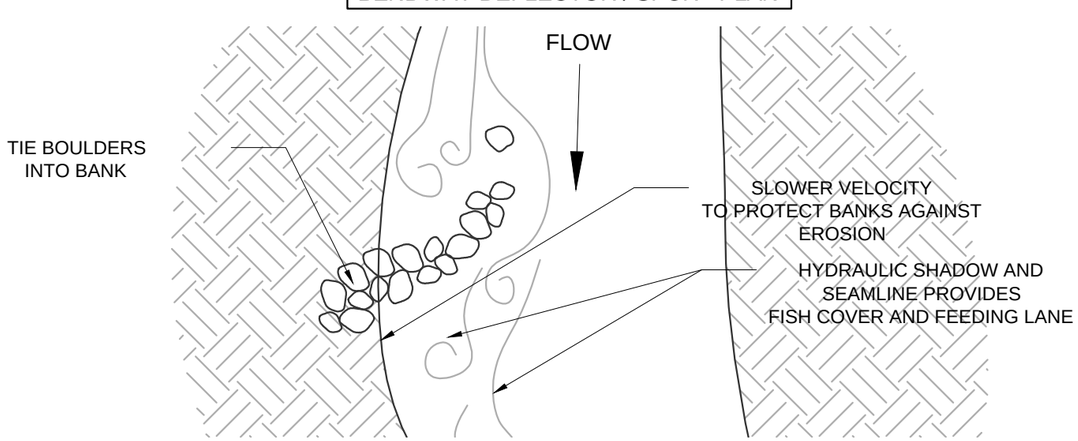
SCALE = 1" = 20'

ROOTWAD / LOG DEFLECTOR - PLAN



SCALE = 1" = 20'

BENDWAY DEFLECTOR / SPUR - PLAN



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CONCEPT DESIGN
TYPICAL DETAILS

CONCEPTUAL IMPROVEMENTS

SOUTH BOULDER CREEK
GILPIN COUNTY, COLORADO

D

PL. SCALE: VARIES
DATE: MAY 2013

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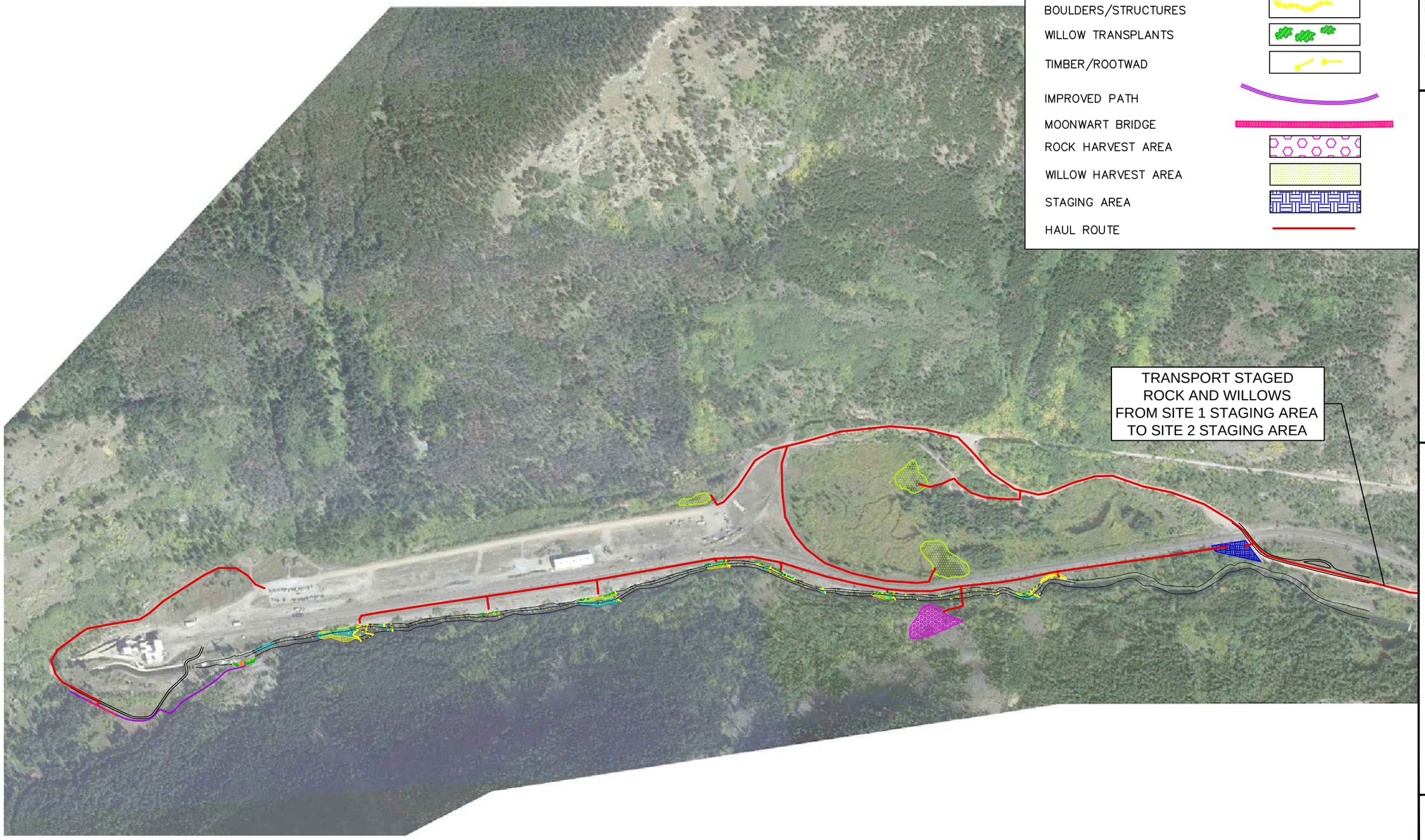

LEGEND:

- FILL AREA/ROUGHNESS
- POOLS
- BOULDERS/STRUCTURES
- WILLOW TRANSPLANTS
- TIMBER/ROOTWAD
- IMPROVED PATH
- MOONWART BRIDGE
- ROCK HARVEST AREA
- WILLOW HARVEST AREA
- STAGING AREA
- HAUL ROUTE

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CONCEPT DESIGN
SITE 1 - CONSTRUCTION MANAGEMENT

CONCEPTUAL IMPROVEMENTS
SITE 1 - MOFFAT TUNNEL
SOUTH BOULDER CREEK
GILPIN COUNTY, COLORADO

CM1

PL. SCALE: 1"=500'
DATE: MAY 2013

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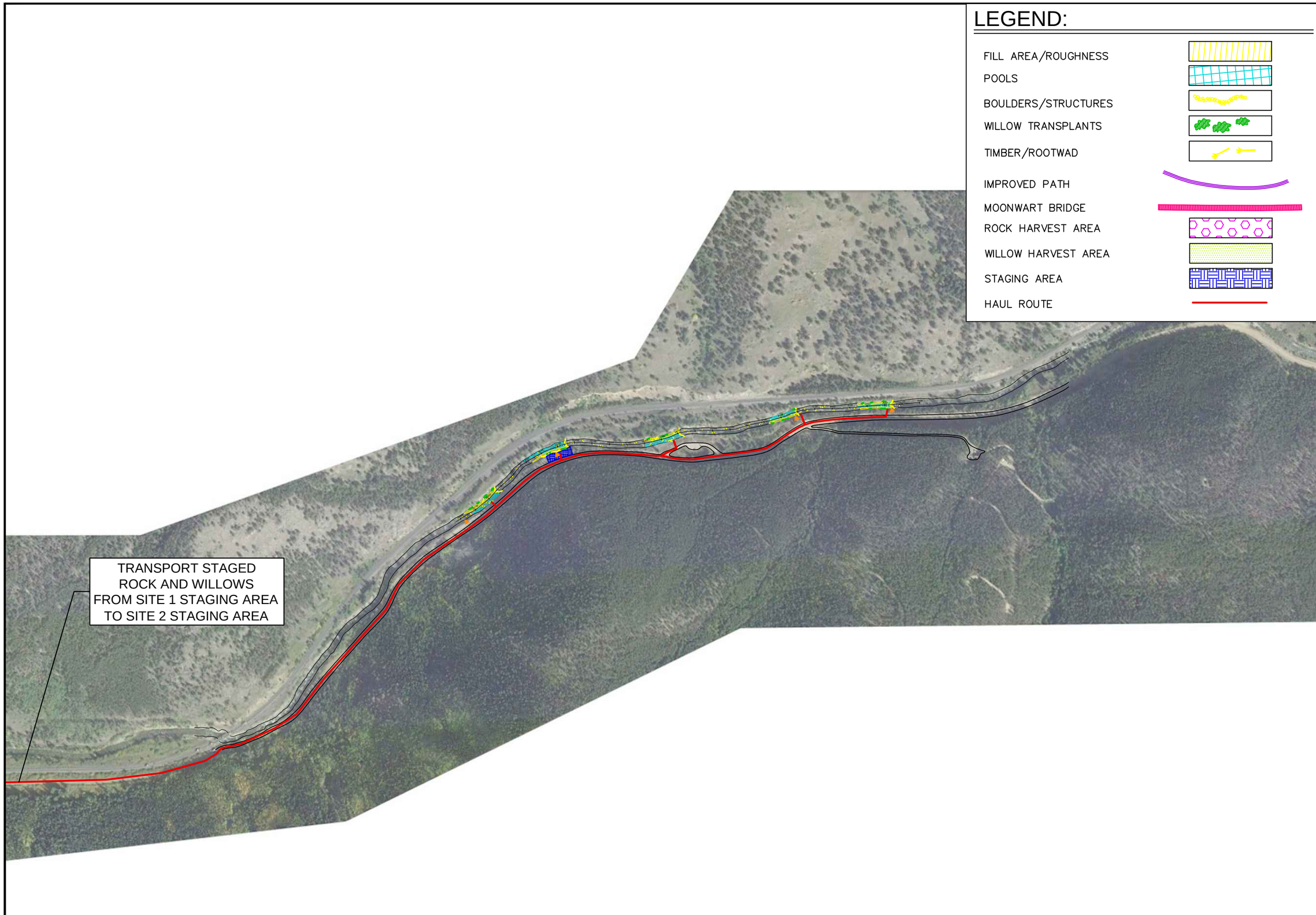

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CONCEPT DESIGN
SITE 2 - CONSTRUCTION MANAGEMENT

CONCEPTUAL IMPROVEMENTS
SITE 2 - JUMBO MOUNTAIN
SOUTH BOULDER CREEK
GILPIN COUNTY, COLORADO

CM2

PL. SCALE: 1"=500'
DATE: MAY 2013

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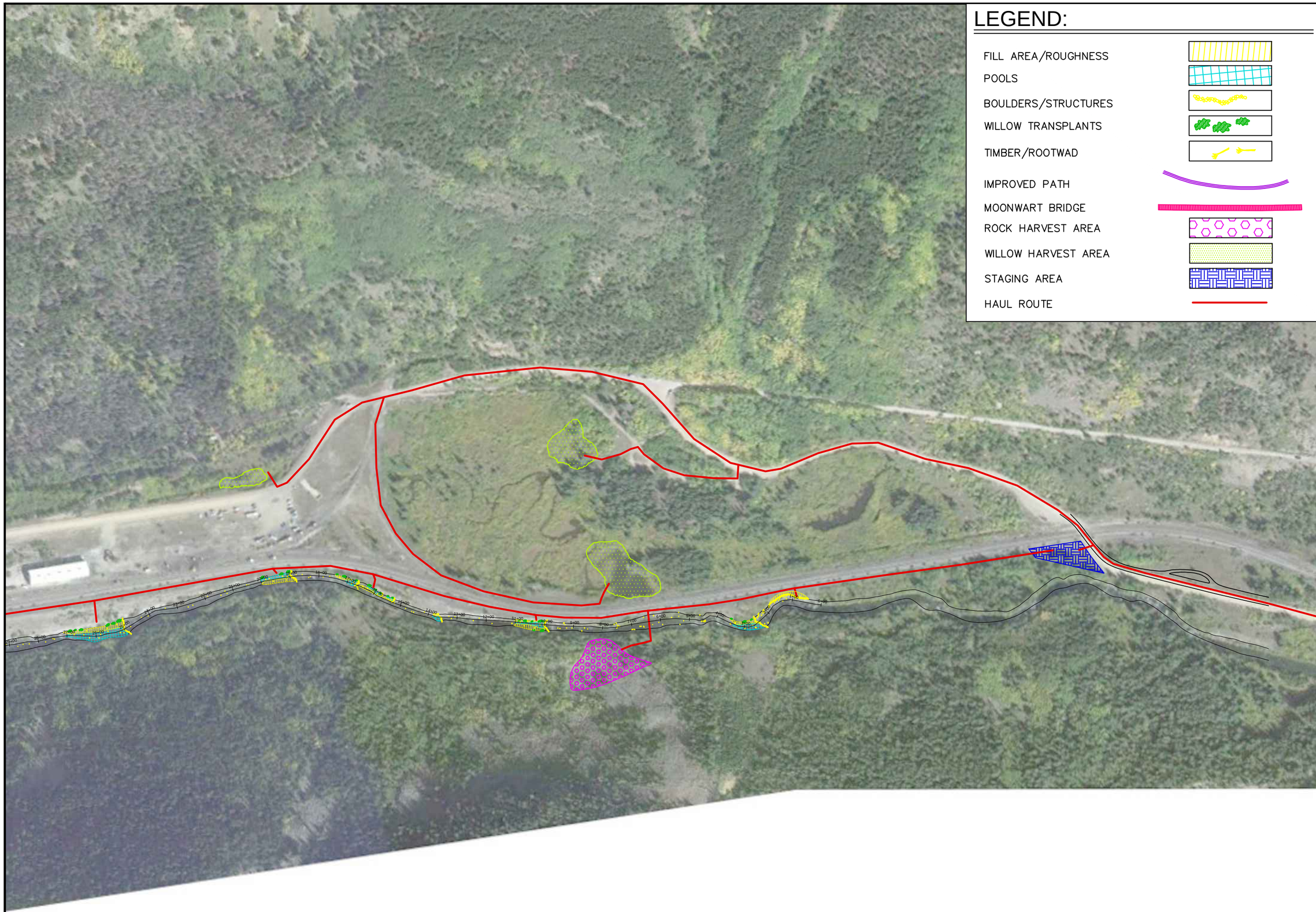

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CONCEPT DESIGN
MATERIAL HARVEST

CONCEPTUAL IMPROVEMENTS

SOUTH BOULDER CREEK
GILPIN COUNTY, COLORADO

H

PL. SCALE: 1"=300'
DATE: MAY 2013

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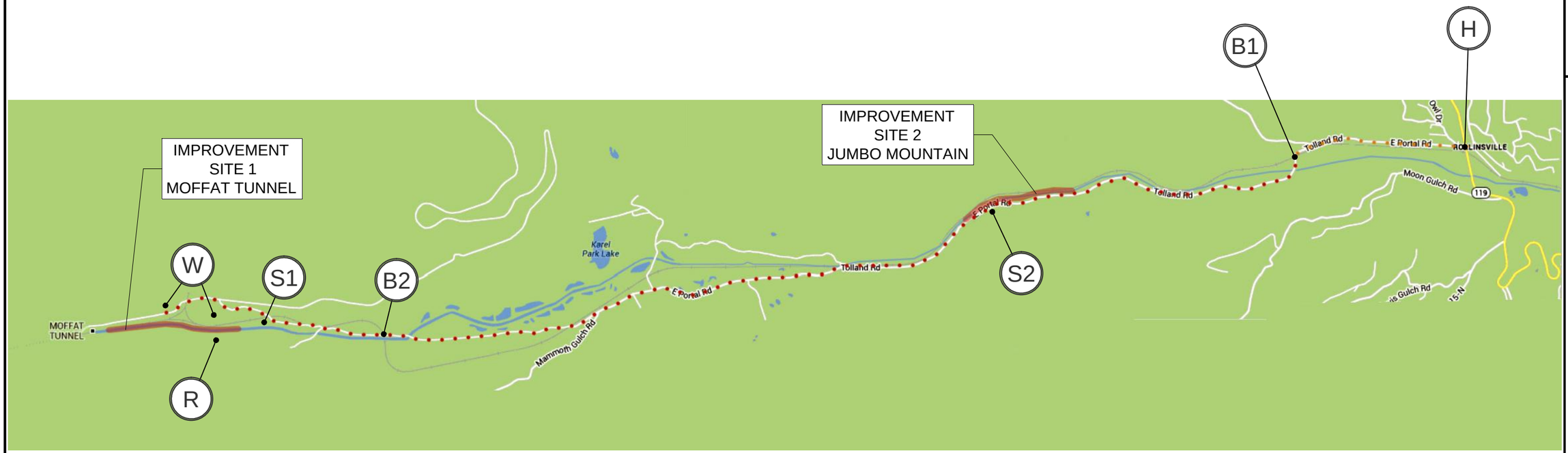

POINT DESCRIPTIONS:

W	WILLOW HARVEST SITES
R	ROCK HARVEST SITE
S1	SITE 1 STAGING AREA
B2	BRIDGE 2 - (LOW CLEARANCE, TIGHT TURNING RADIUS)
S2	SITE 2 STAGING AREA
B1	BRIDGE 1 - (LOW CLEARANCE, TIGHT TURNING RADIUS)
H	HIGHWAY 119 TOLLAND ROAD INTERSECTION

HAUL ROUTES ALONG TOLLAND ROAD:		METHOD:
H - B1	HEAVY EQUIPMENT DELIVERY FROM HWY 119 TO LOW CLEARANCE BRIDGE	SEMI TRUCK
B1 - S1	HEAVY EQUIPMENT TRANSPORT FROM LOW CLEARANCE BRIDGE TO SITE1	EQUIPMENT ON ROAD
W - S1	TRANSPORT WILLOWS FROM HARVEST AREA TO SITE 1 STAGING AREA	LOADER
W - S2	TRANSPORT WILLOWS FROM HARVEST AREA TO SITE 2 STAGING AREA	LOADER
S1 - S2	TRANSPORT STAGED ROCK FROM SITE 1 STAGING AREA TO SITE 2 STAGING AREA	LOADER

** NOTE: ROCK WILL BE DISTRIBUTED TO IMPROVEMENT AREA 1 DIRECTLY FROM HARVEST AREA.*
ROCK FOR SITE 2 WILL BE STAGED AT S1 AND MOVED TO S2.

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CONCEPT DESIGN
TOLLAND ROAD ACCESS -
CONSTRUCTION MANAGEMENT

CONCEPTUAL IMPROVEMENTS

SOUTH BOULDER CREEK
GILPIN COUNTY, COLORADO

AC

PL. SCALE: 1"=3000'
DATE: MAY 2013

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