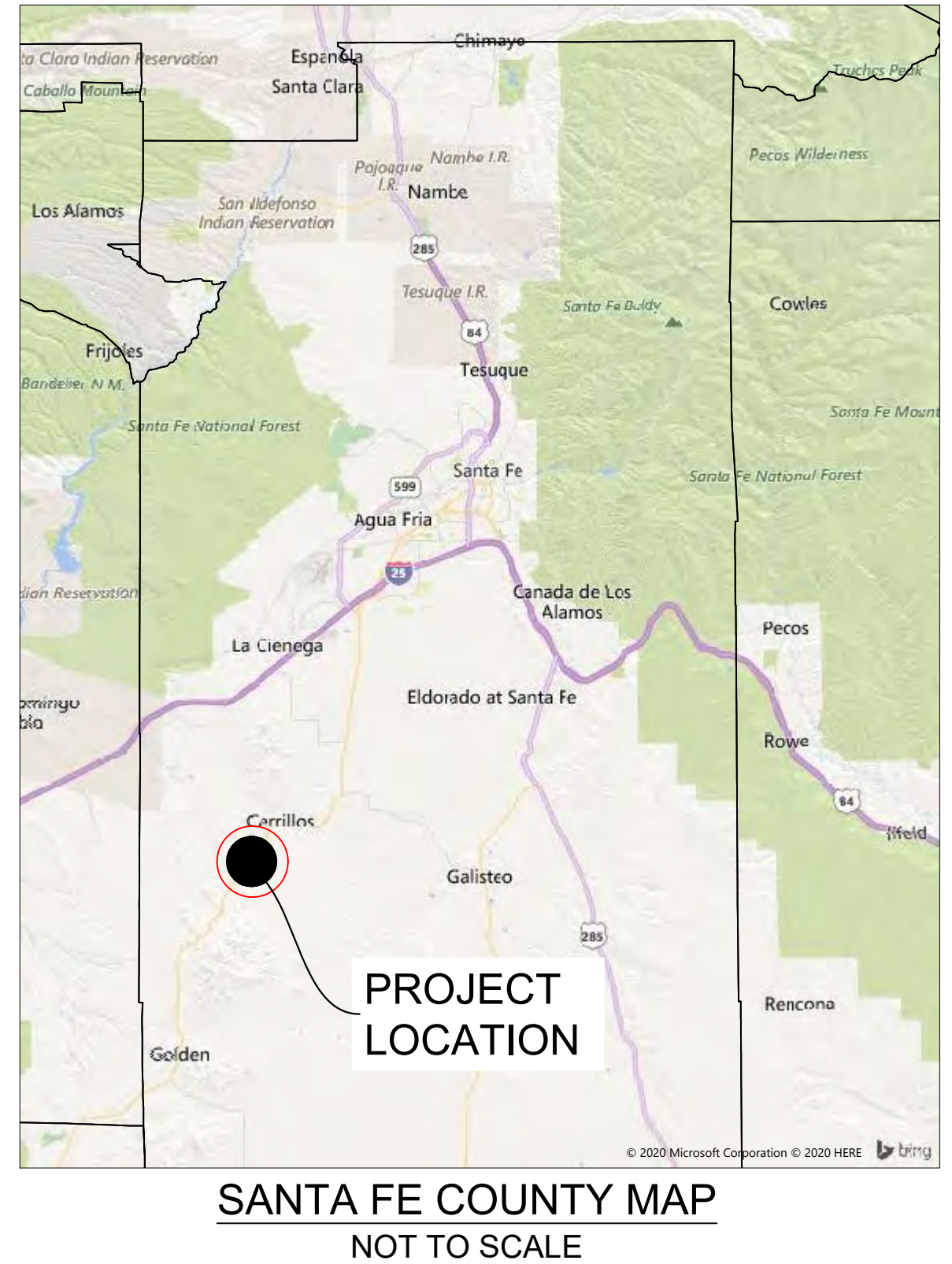
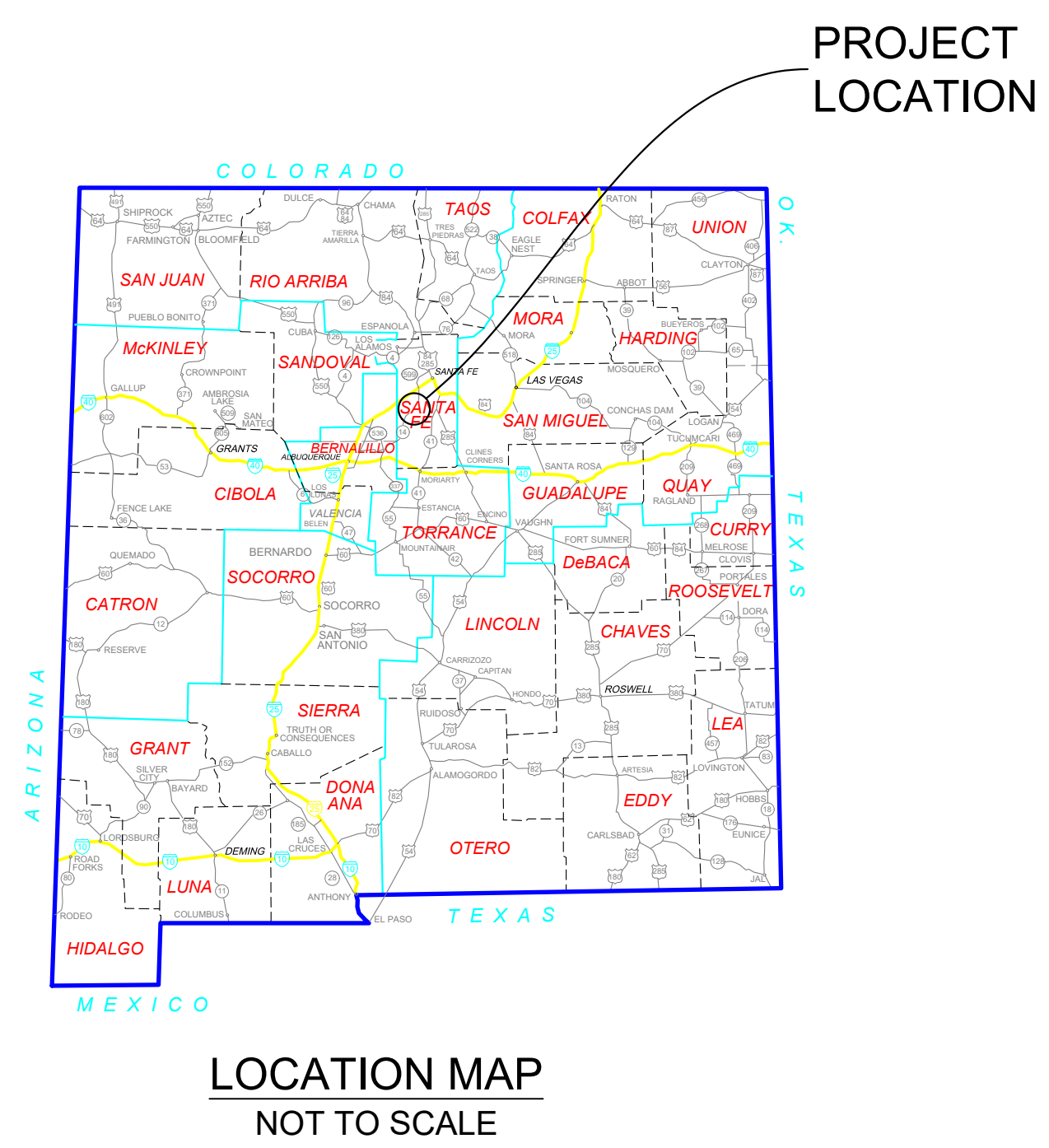


STORMWATER AND EROSION CONTROL PROJECT

PRE-FINAL CONCEPTUAL DESIGNS MADRID, NEW MEXICO



SHEET LIST	
Sheet Number	Sheet Title
1	COVER
2	ICE HOUSE ROAD PLAN - ALTERNATIVE 1
3	ICE HOUSE ROAD DETAIL - ALTERNATIVE 1
4	TYPICAL INVERTED CROWN ROAD DETAIL - ALTERNATIVE 1
5	TYPICAL MADRID ARROYO AT NEW GRADE CONTROL STRUCURE - ALT 1
6	ICE HOUSE ROAD PLAN - ALTERNATIVE 2
7	ICE HOUSE ROAD DETAIL - ALTERNATIVE 2
8	DRAINAGE WEST OF NM-14 DETAIL - ALTERNATIVE 2
9	FIREHOUSE LANE PLAN - ALTERNATIVE 1
10	FIREHOUSE LANE PLAN - ALTERNATIVE 2
11	TYPICAL TRAIL AND CONVEYANCE DIVERSION CHANNEL
12	TYPICAL ROCK STABILIZED GOB PILE DRAINAGE DETAIL - ALTERNATIVE 2
13	TYPICAL DETAILS
14	STORAGE TANK AREA
15	STORAGE TANK AREA - DETAILS

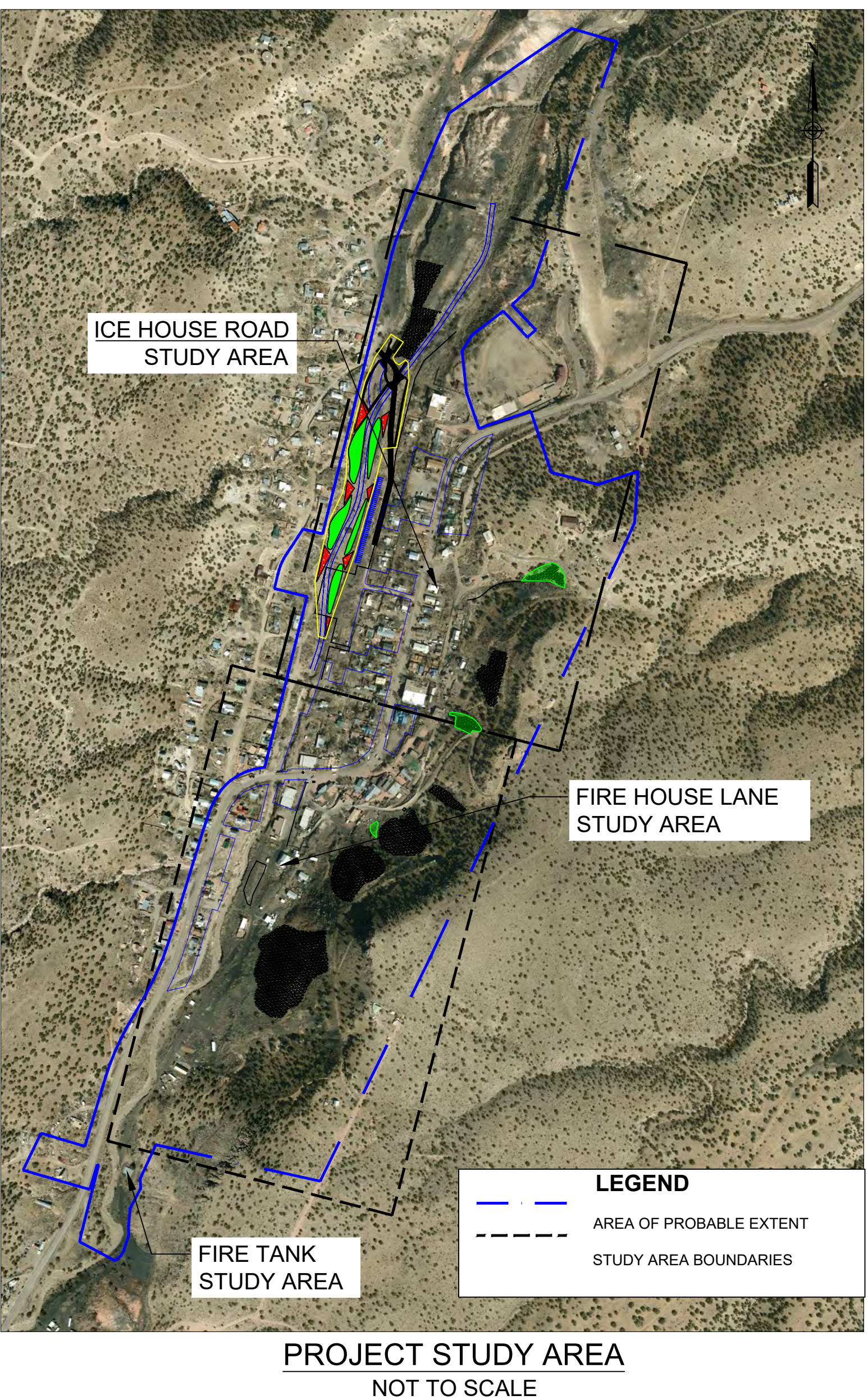
PROJECT NOTES

THE DRAWINGS PRESENTED HERE-IN DESCRIBE ALTERNATIVE CONCEPTS TO CONTROL DRAINAGE AND EROSION WITHIN THE MADRID, NEW MEXICO AREA. ADDITIONALLY, EVALUATION OF ALTERNATIVES TO IMPROVE THE FIRE PROTECTION TANK SYSTEM ARE INCLUDED.

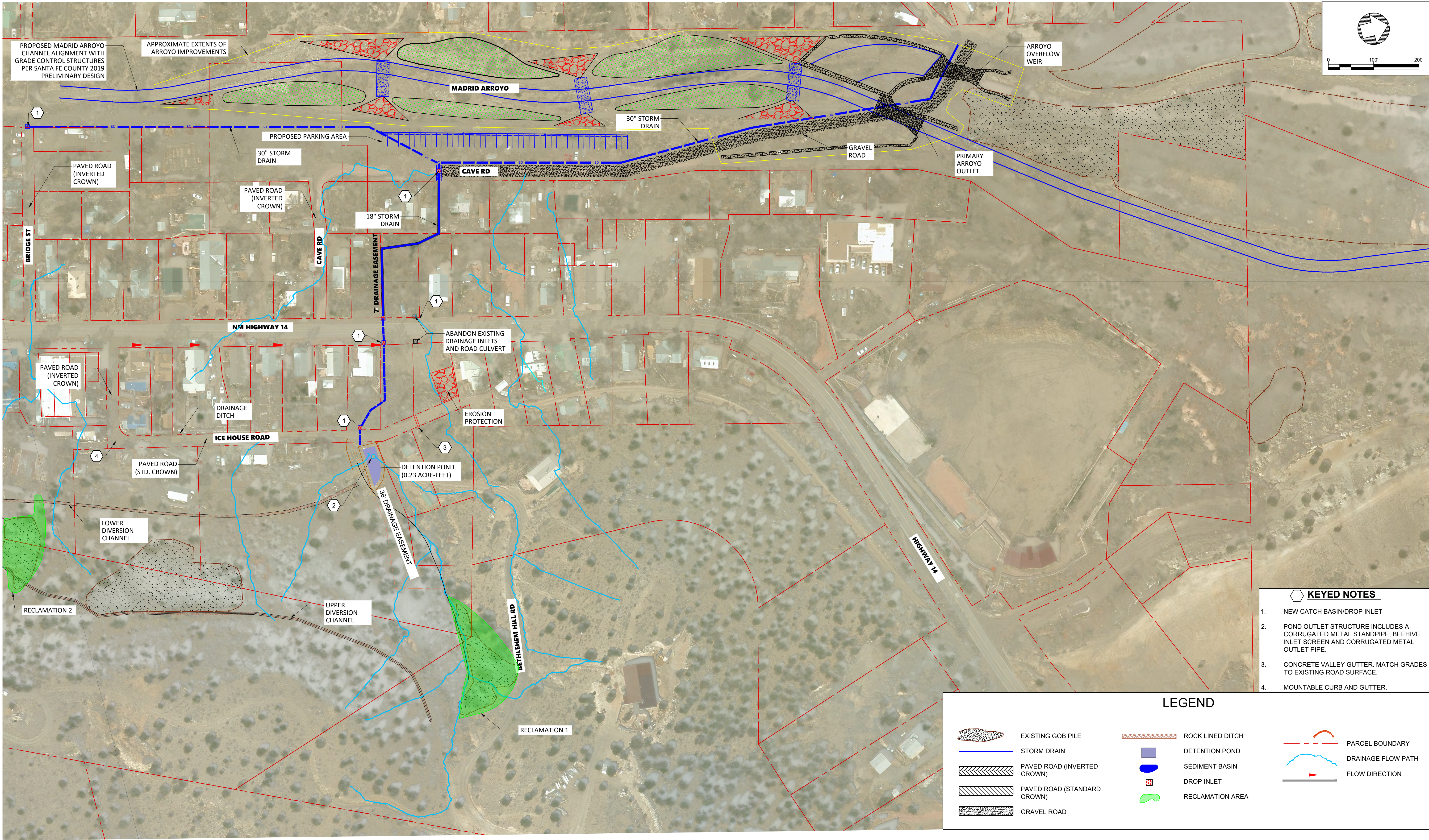
ALTERNATIVE 1 CONCEPTS FOCUS ON STANDARD DRAINAGE CONTROL SYSTEMS THAT INCORPORATE DETENTION PONDS, BELOW GRADE STORM DRAINS, CATCH BASIN INLETS AND DRAINAGE CHANNELS TO ROUTE STORMWATER TO MADRID ARROYO..

ALTERNATIVE 2 CONCEPTS FOCUS ON LOW IMPACT DEVELOPMENT DRAINAGE CONTROLS THAT UTILIZE THE EXISTING TERRAIN AND SITE FEATURES TO CONTROL SEDIMENT, POND WATER AND ROUTE STORMWATER TO MADRID ARROYO.

FIRE TANK IMPROVEMENTS INCLUDE ALTERNATIVES THAT CONSIDER STABILIZATION OF THE EXISTING FIRE STORAGE TANK SYSTEM FROM EROSION DAMAGE, CONSTRUCTION OF NEW INFRASTRUCTURE INCLUDING A TANK AND DISTRIBUTION PIPING.



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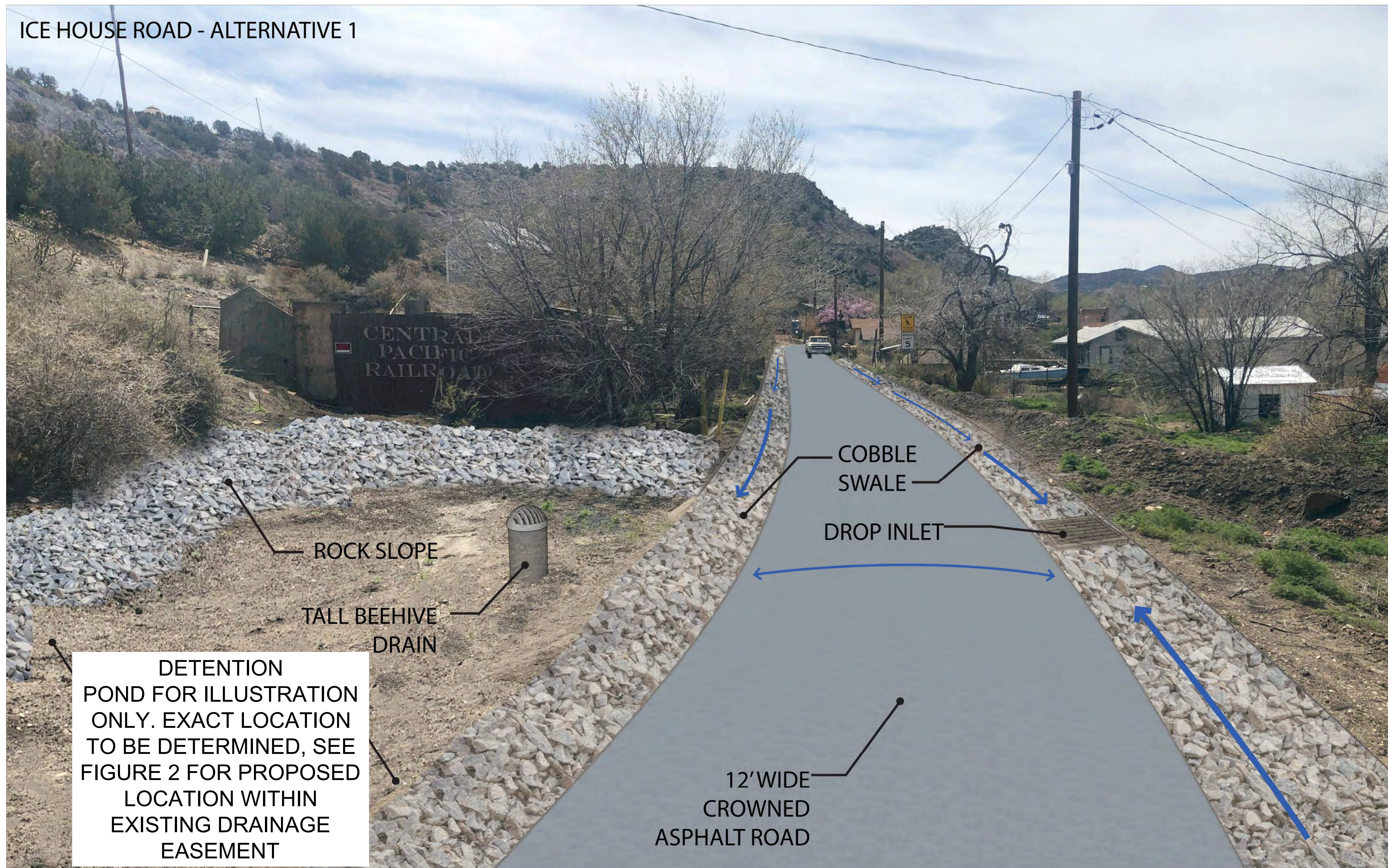


MADRID STORMWATER & EROSION CONTROL PROJECT
ICE HOUSE ROAD PLAN - ALTERNATIVE 1
PRE-FINAL CONCEPTUAL DESIGN

FIGURE
2

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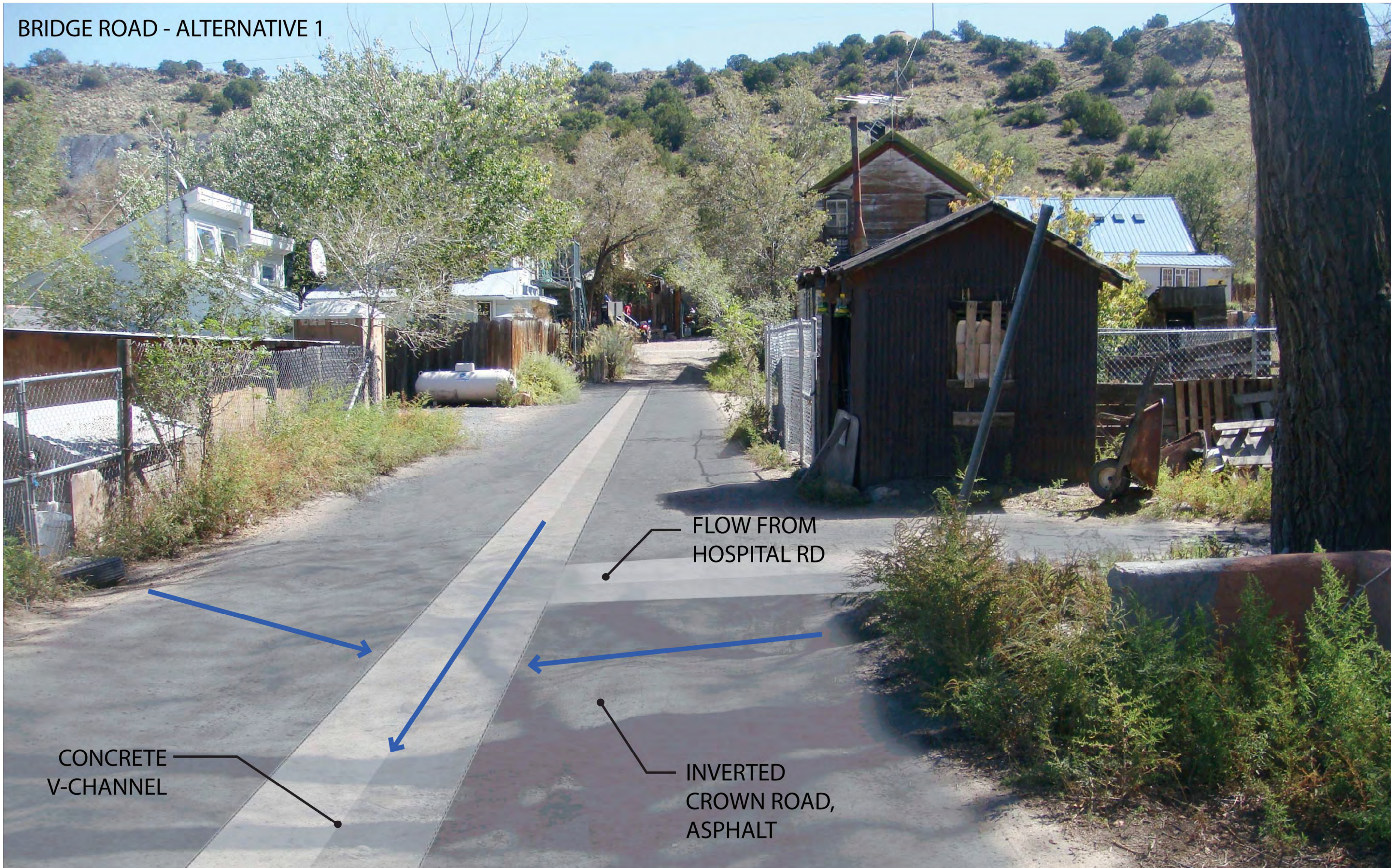
ICE HOUSE ROAD - ALTERNATIVE 1



BEFORE PHOTO:



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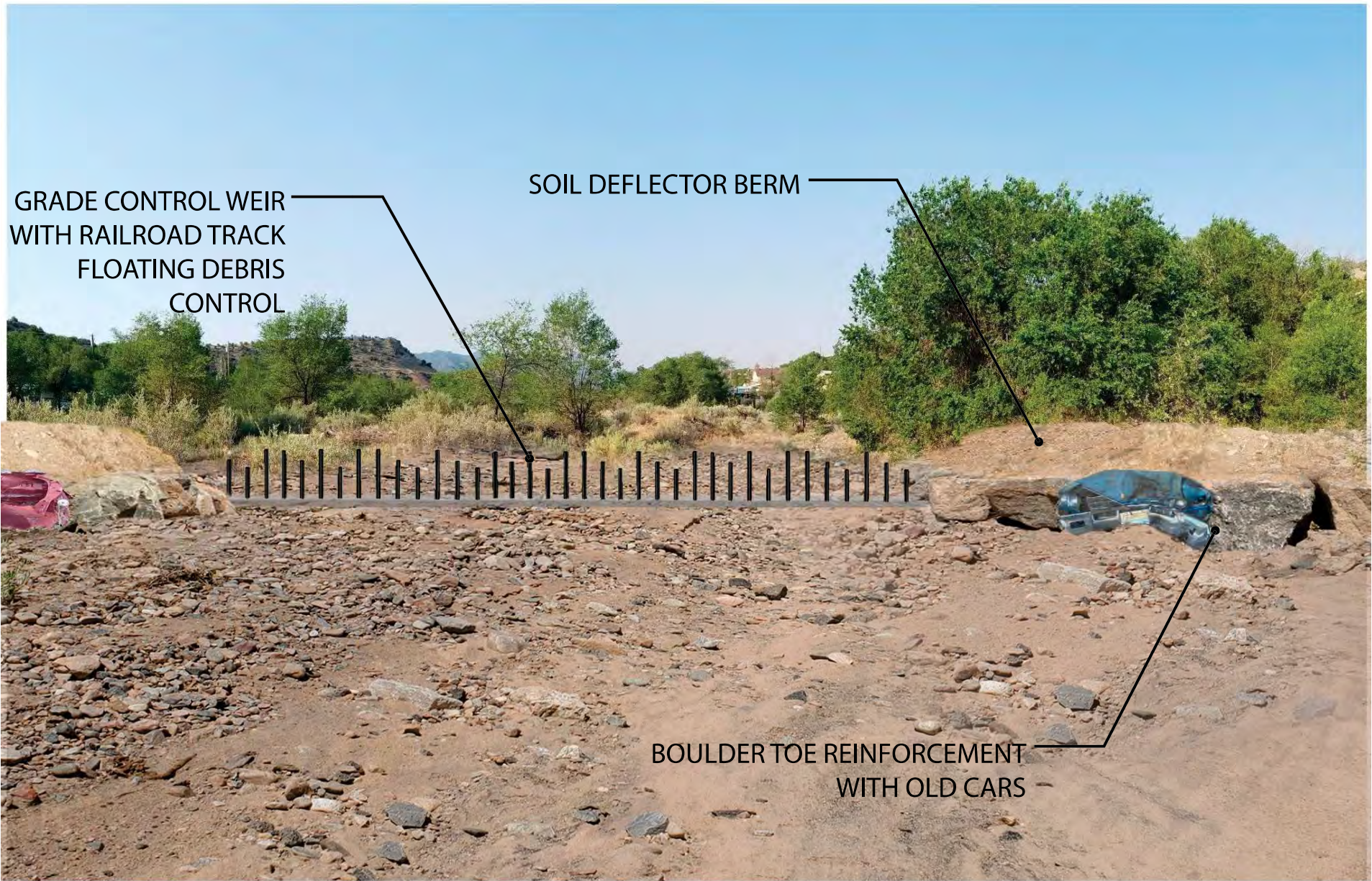
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MADRID STORMWATER & EROSION SAFETY PROJECT
TYPICAL INVERTED CROWN ROAD DETAIL - ALTERNATIVE 1
PRE-FINAL CONCEPTUAL DESIGN

FIGURE
4

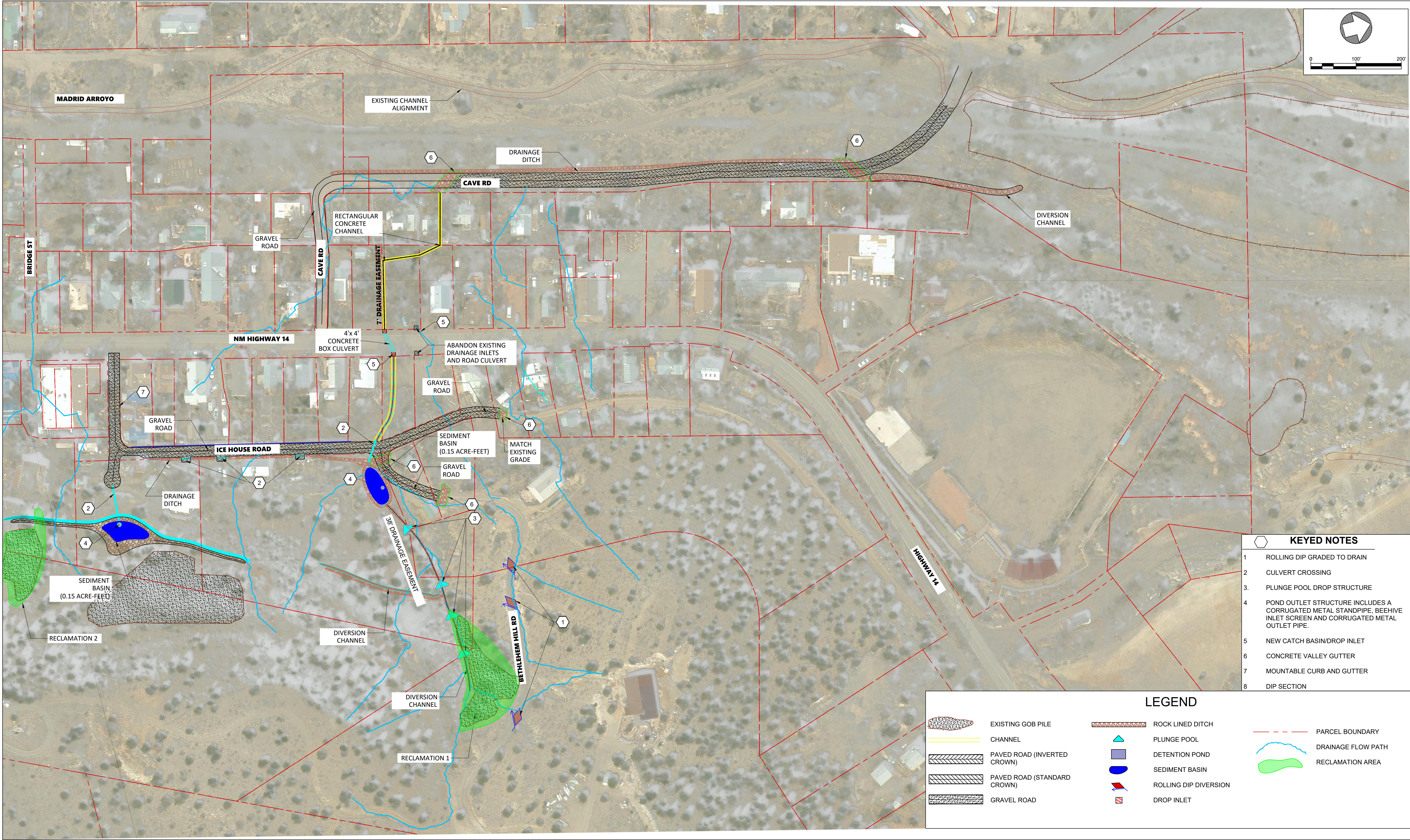
MADRID ARROYO AT NEW GRADE CONTROL
STRUCTURE - ALTERNATIVE 1



BEFORE PHOTO:



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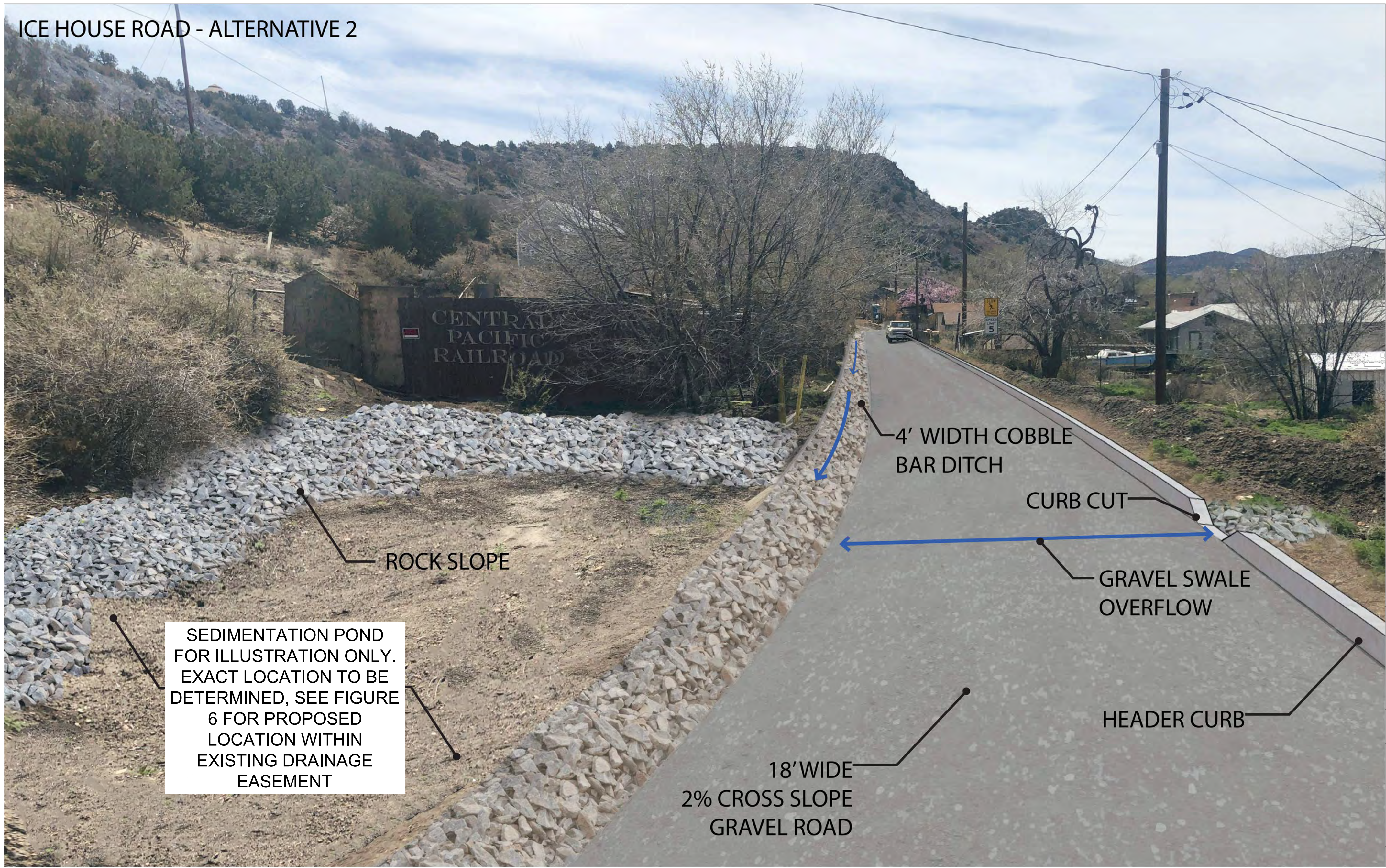
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MADRID STORMWATER & EROSION CONTROL PROJECT
ICE HOUSE ROAD PLAN - ALTERNATIVE 2
PRE-FINAL CONCEPTUAL DESIGN

FIGURE
6

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SURFACE DRAINAGE WEST OF NM-14
ALTERNATIVE 2

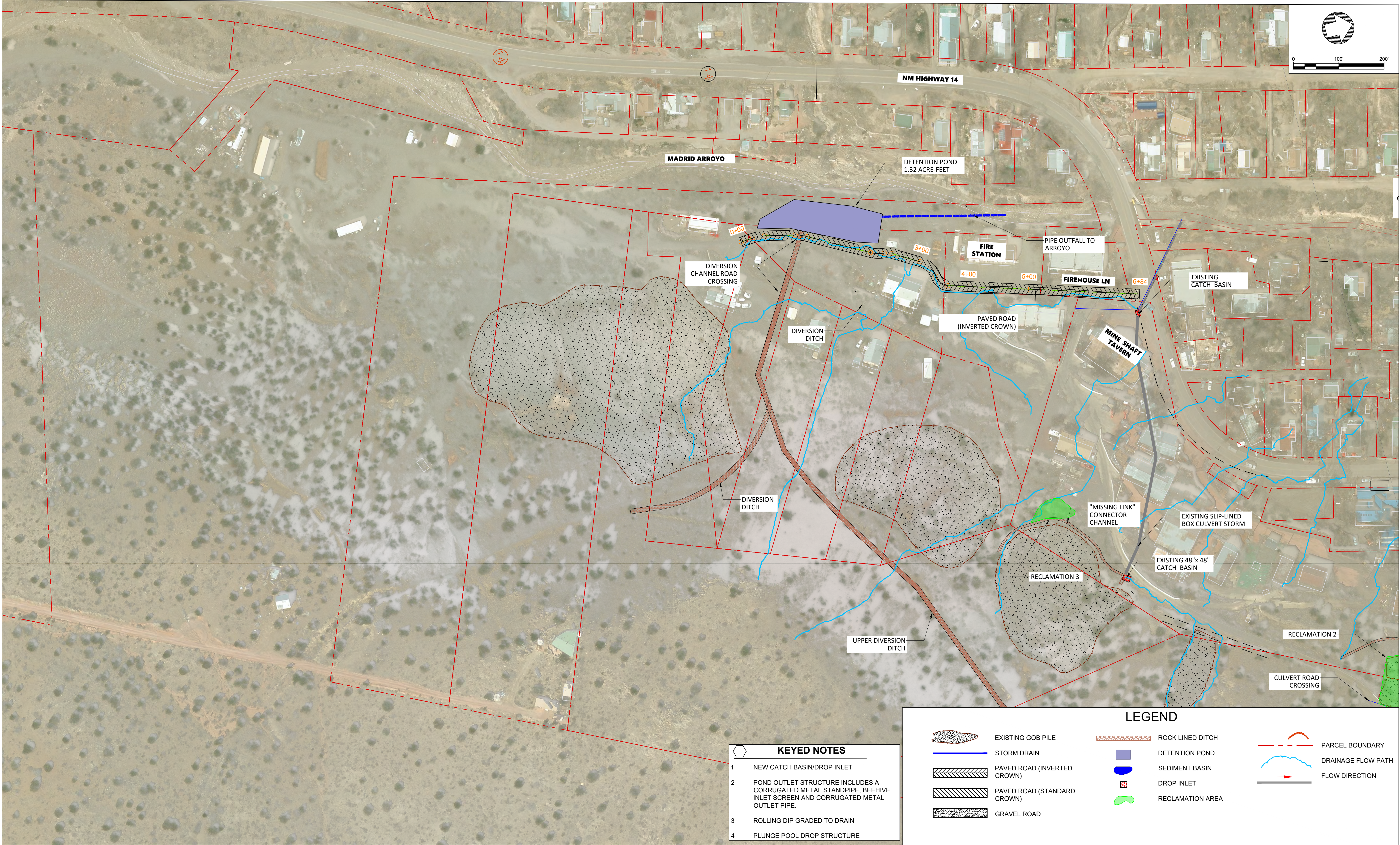
ROCK LINED DRAINAGE
CHANNEL TO MATCH
LOCAL GEOLOGY



BEFORE PHOTO:



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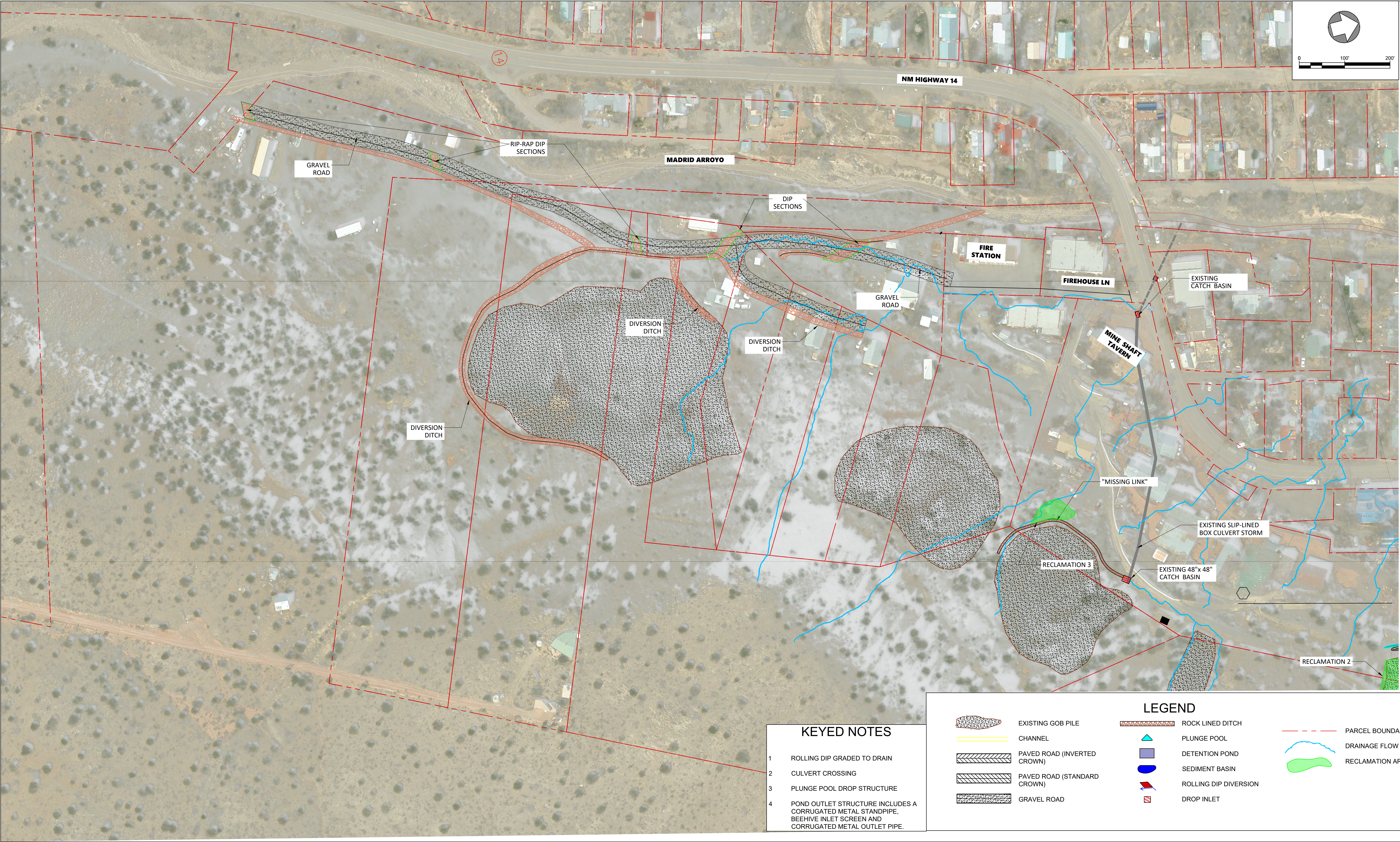
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**MADRID STORMWATER & EROSION CONTROL PROJECT
FIRE HOUSE LANE PLAN - ALTERNATIVE 1
PRE-FINAL CONCEPTUAL DESIGN**

**FIGURE
9**

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MADRID STORMWATER & EROSION CONTROL PROJECT
FIRE HOUSE LANE PLAN - ALTERNATIVE 2
PRE-FINAL CONCEPTUAL DESIGN

FIGURE
10

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TRAIL AND CONVEYANCE DIVERSION
CHANNEL



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MADRID STORMWATER & EROSION SAFETY PROJECT
TRAIL & CONVEYANCE DIVERSION DETAIL
PRE-FINAL CONCEPTUAL DESIGN

FIGURE

11

ROCK STABILIZED GOB PILE DRAINAGE



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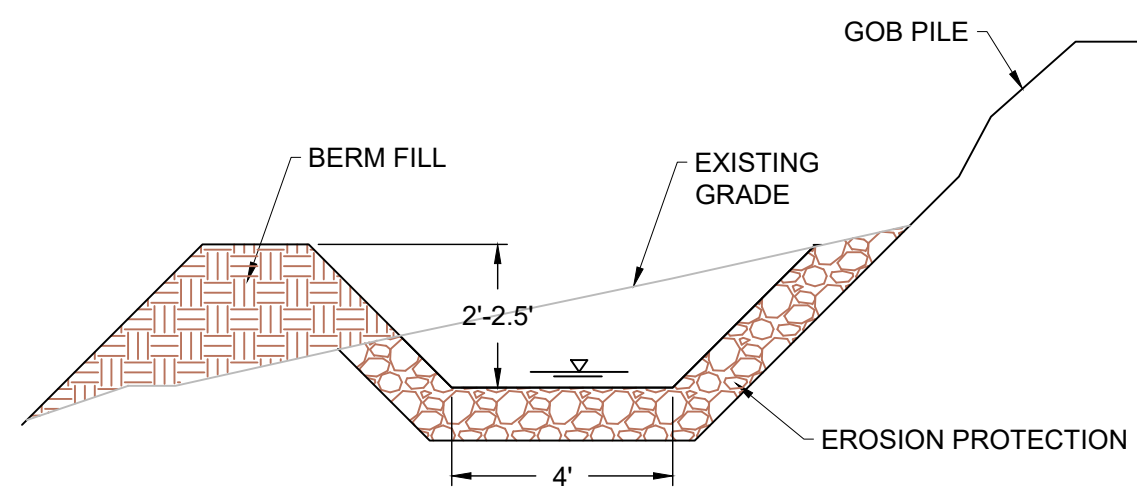
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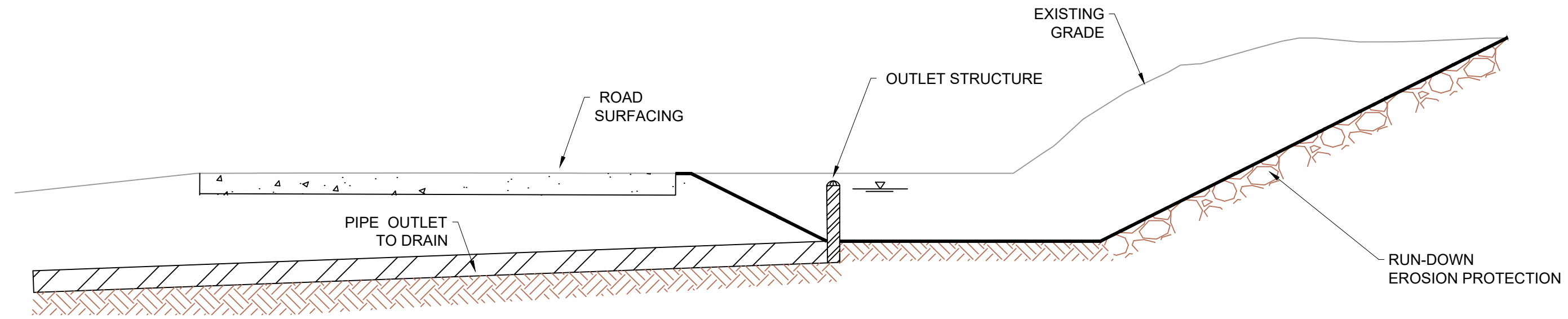
MADRID STORMWATER & EROSION SAFETY PROJECT
ROCK STABILIZED GOB PILE DRAINAGE DETAIL - ALTERNATIVE 2
PRE-FINAL CONCEPTUAL DESIGN

FIGURE
12

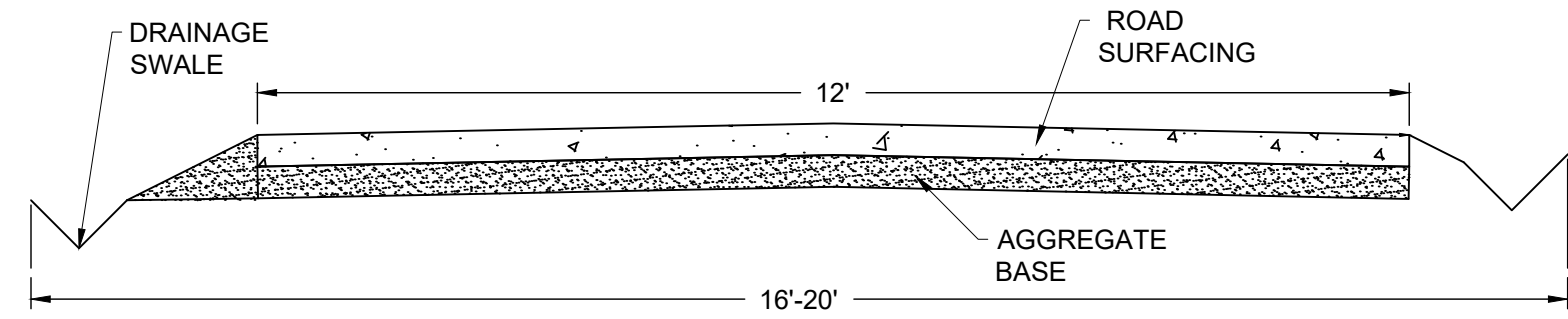
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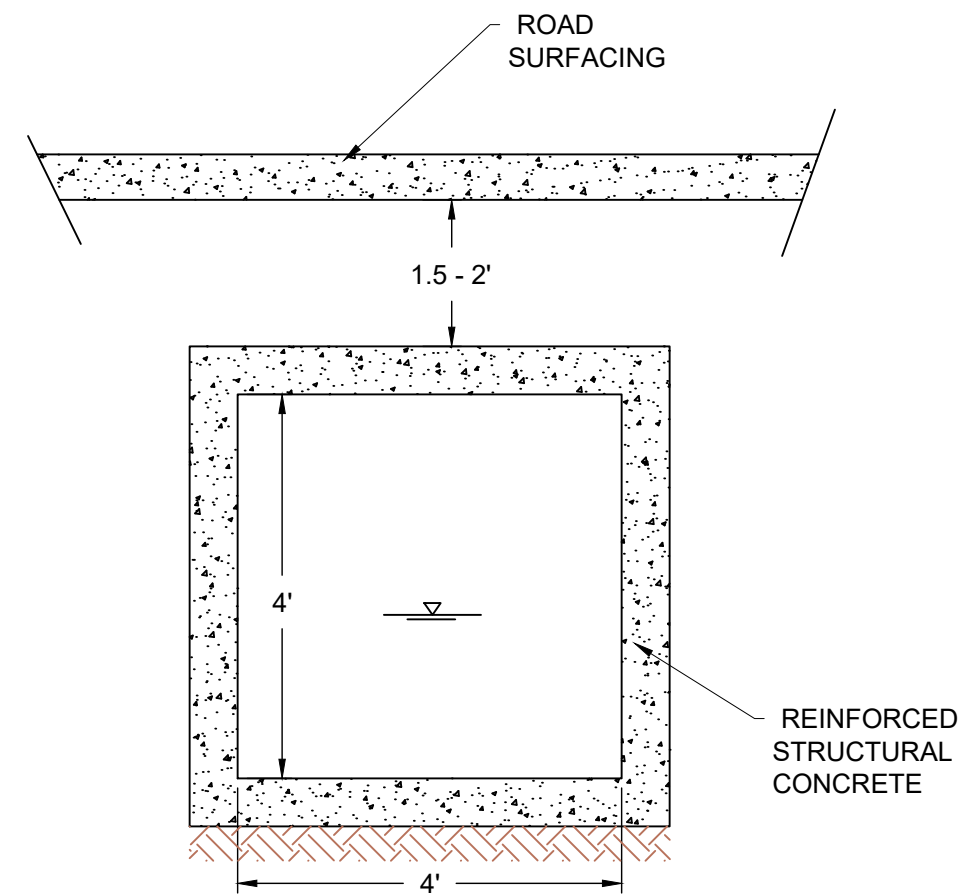
ROCK LINED DIVERSION DITCH



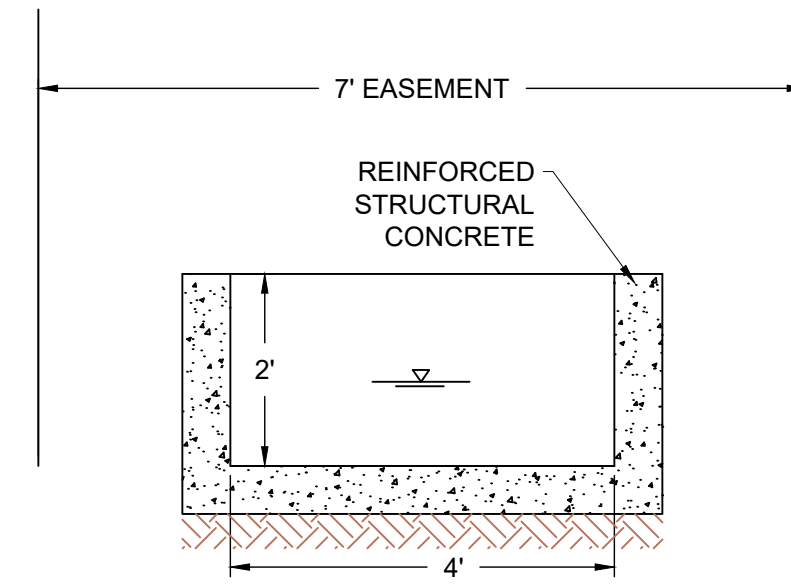
TYPICAL DETENTION POND/ SEDIMENT BASIN



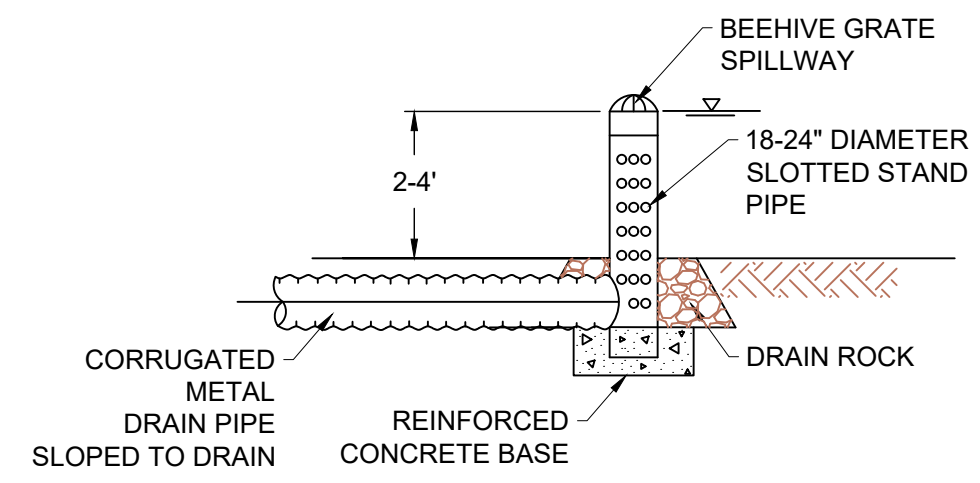
ICE HOUSE ROAD - STANDARD CROWN



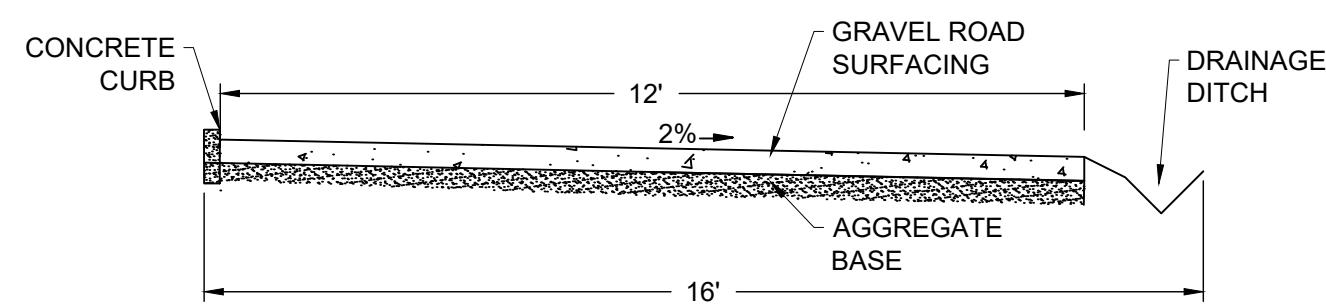
CONCRETE BOX CULVERT



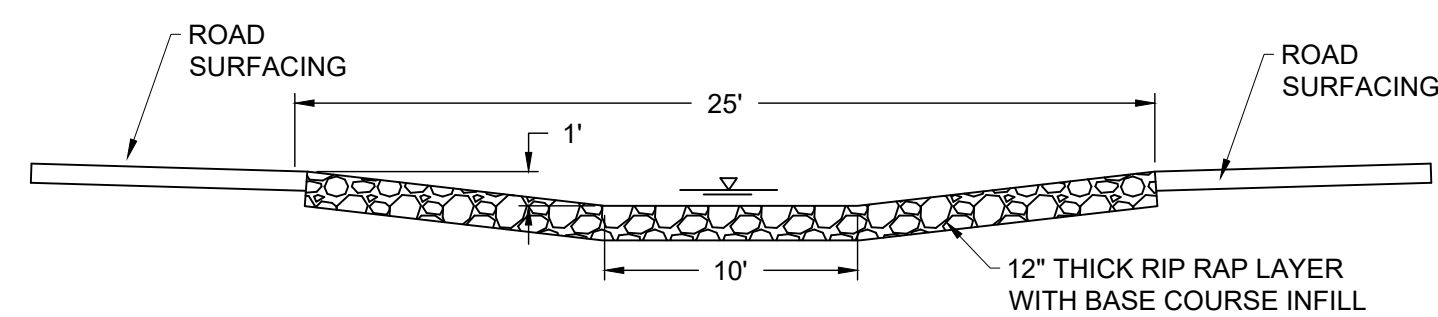
CONCRETE CHANNEL



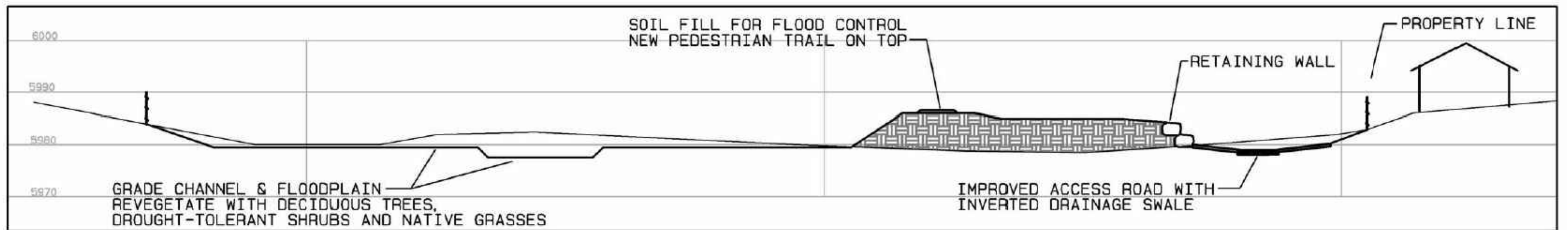
TYPICAL SEDIMENT/DETENTION BASIN OUTLET STRUCTURE



FIRE HOUSE LANE - SLOPED INWARD

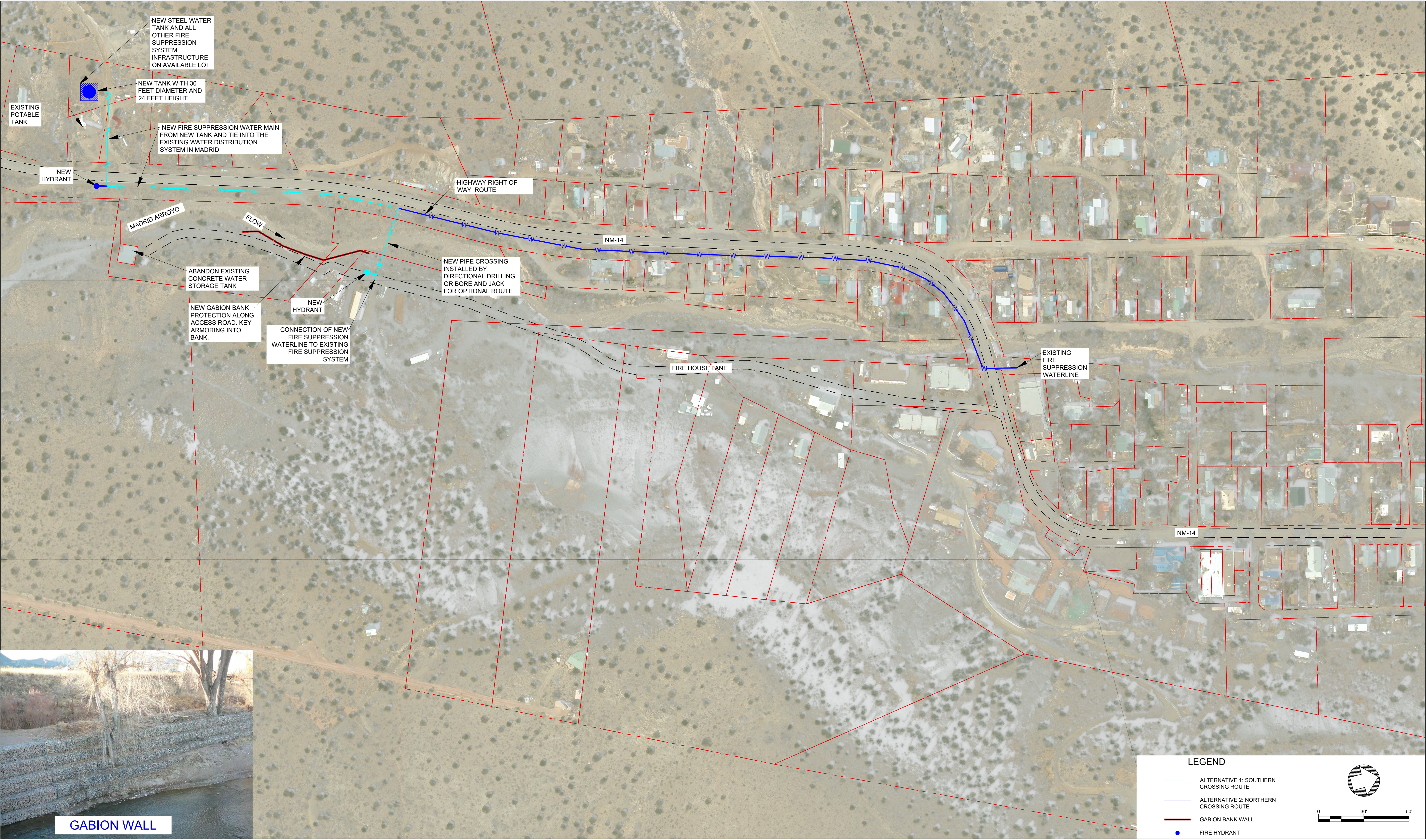


DIP SECTION CROSS DRAIN

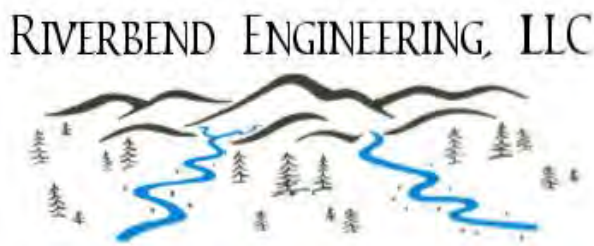


TYPICAL MADRID ARROYO IMPROVED CHANNEL AND FLOODPLAIN WITH BERM AND RETAINING WALL FOR FLOOD PROTECTION (FROM SANTA FE COUNTY DESIGN DATED 1/30/2019)

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MADRID STORMWATER & EROSION SAFETY PROJECT
STORAGE TANK AREA
PRE-FINAL CONCEPTUAL DESIGN

FIGURE
14

GABION BANK PROTECTION
NMDOT STANDARD DETAIL