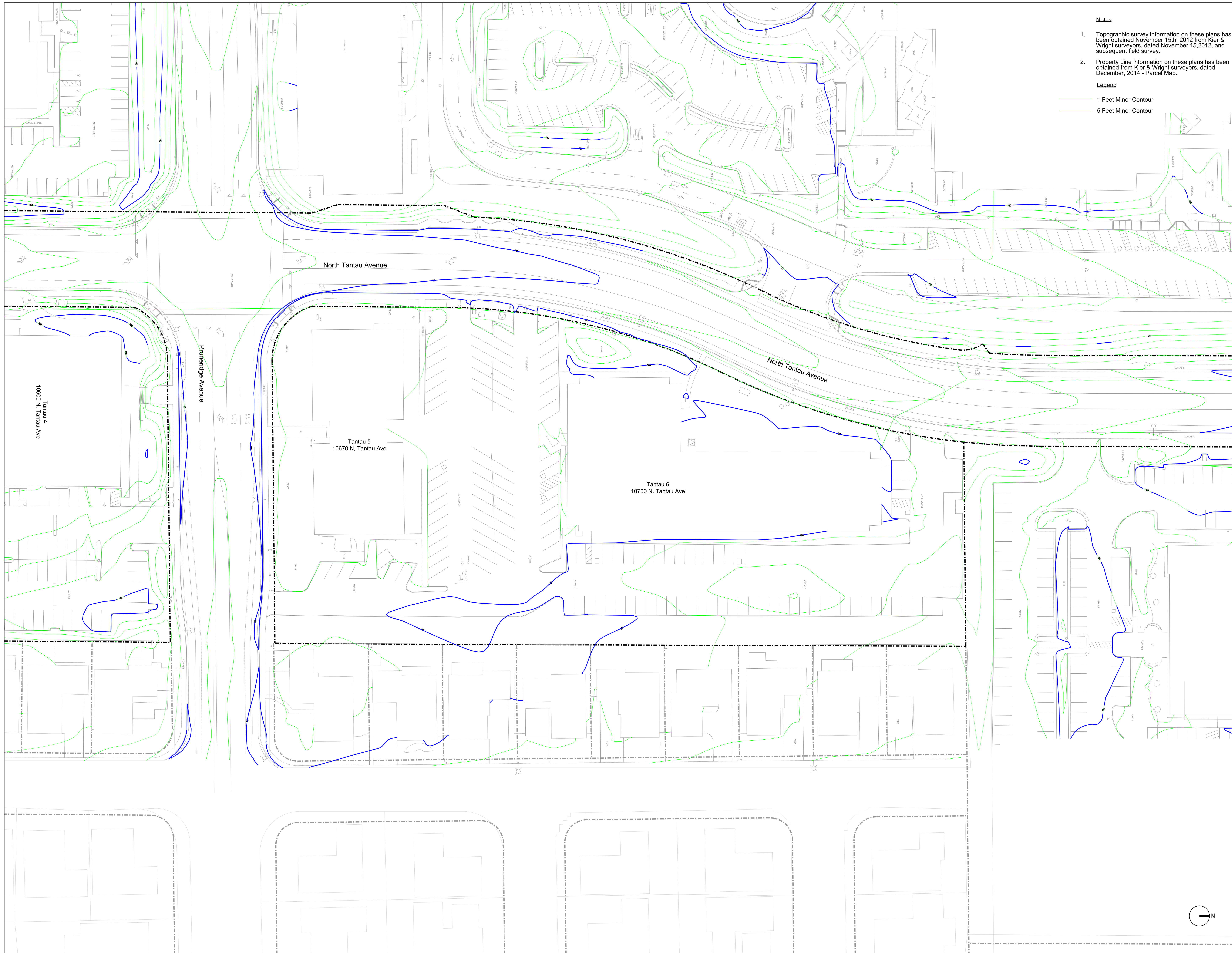


SITE - Civil



Notes

1. Topographic survey information on these plans has been obtained November 15th, 2012 from Kier & Wright surveyors, dated November 15, 2012, and subsequent field survey.
2. Property Line information on these plans has been obtained from Kier & Wright surveyors, dated December, 2014 - Parcel Map.

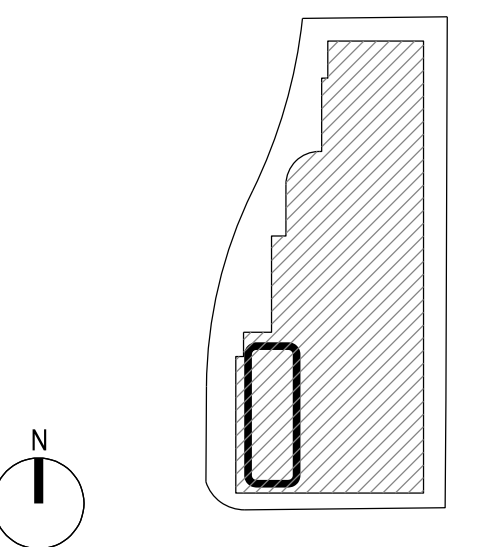
Legend

- 1 Feet Minor Contour
- 5 Feet Minor Contour

General Notes
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Rev.	Date	Reason For Issue	CHK.
00	02/25/2015	Planning - Site & Architectural Review	MD

Key Plan



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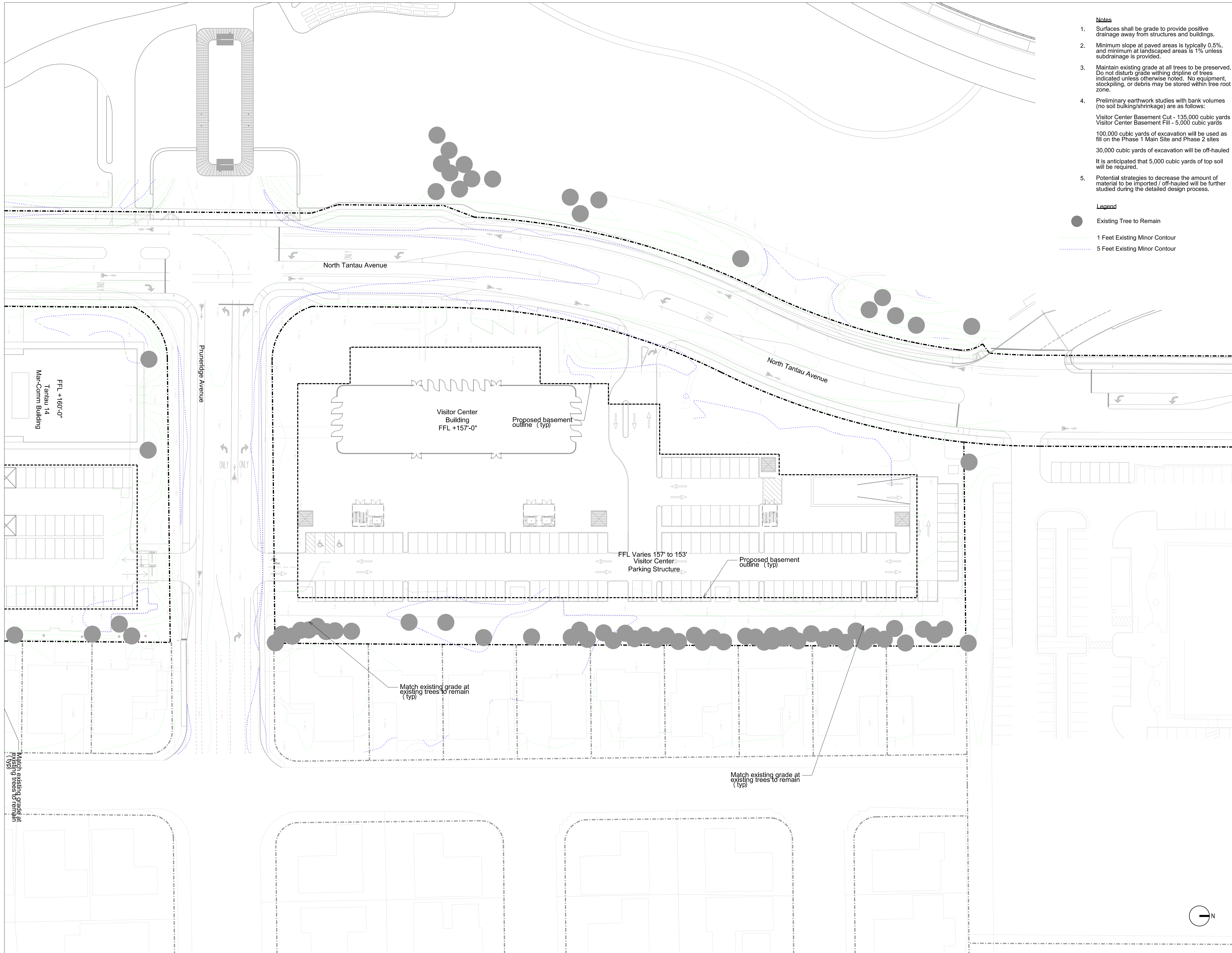
Luk and Associates
 738 Alfred Nobel Drive
 Hercules, CA 94547
 Phone: (510) 724-3388
 www.lukassociates.com

Client:
Apple, Inc.

Project:
**Apple Campus 2, Phase 1
 North Tantau Avenue
 Site A
 Visitors Center & Parking**

Title:
Existing Topography

Project No.	Date	Scale at ARCH E1 Size
2193	02/25/2015	1"=30' (1:360)
Number	Revision	
P-VC-3.00	00	



- Notes**
- Surfaces shall be grade to provide positive drainage away from structures and buildings.
 - Minimum slope at paved areas is typically 0.5%, and minimum at landscaped areas is 1% unless subdrainage is provided.
 - Maintain existing grade at all trees to be preserved. Do not disturb grade within dripline of trees indicated unless otherwise noted. No equipment, stockpiling, or debris may be stored within tree root zone.
 - Preliminary earthwork studies with bank volumes (no soil bulking/shrinkage) are as follows:
 Visitor Center Basement Cut - 135,000 cubic yards
 Visitor Center Basement Fill - 5,000 cubic yards
 100,000 cubic yards of excavation will be used as fill on the Phase 1 Main Site and Phase 2 sites
 30,000 cubic yards of excavation will be off-hauled
 It is anticipated that 5,000 cubic yards of top soil will be required.
 - Potential strategies to decrease the amount of material to be imported / off-hauled will be further studied during the detailed design process.

- Legend**
- Existing Tree to Remain
 - 1 Feet Existing Minor Contour
 - 5 Feet Existing Minor Contour

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Rev.	Date	Reason For Issue	CHK.
01	04/20/2015	Planning - Site & Arch. Review Resubmit	MD
00	02/25/2015	Planning - Site & Architectural Review	MD

Rev.	Date	Reason For Issue	CHK.
01	04/20/2015	Planning - Site & Arch. Review Resubmit	MD
00	02/25/2015	Planning - Site & Architectural Review	MD

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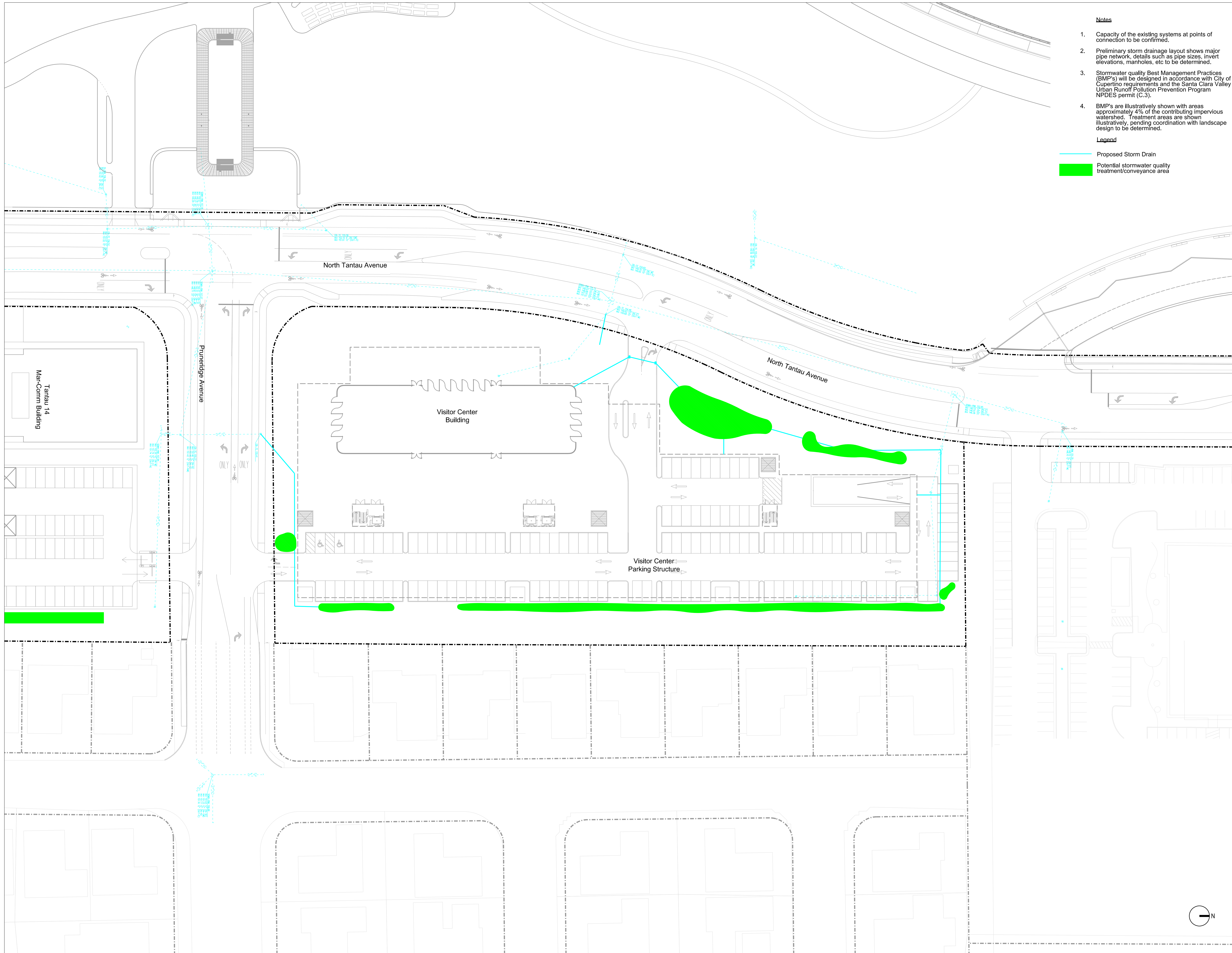
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 Phone: (510) 724-3388
 www.lukassociates.com

Client:
Apple, Inc.

Project:
**Apple Campus 2, Phase 1
 North Tantau Avenue
 Site A
 Visitors Center & Parking**

Title:
Proposed Topography

Project No.	Date	Scale at ARCH E1 Size
2193	02/25/2015	1"=30' (1:360)
Number	Revision	
P-VC-3.10	01	



Notes

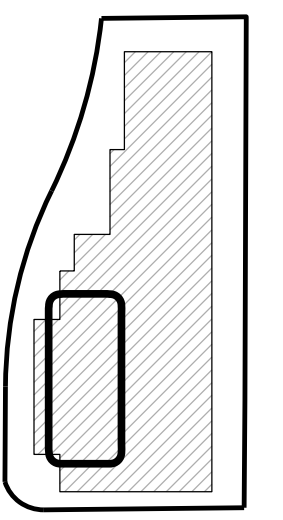
1. Capacity of the existing systems at points of connection to be confirmed.
2. Preliminary storm drainage layout shows major pipe network, details such as pipe sizes, invert elevations, manholes, etc to be determined.
3. Stormwater quality Best Management Practices (BMP's) will be designed in accordance with City of Cupertino requirements and the Santa Clara Valley Urban Runoff Pollution Prevention Program NPDES permit (C.3).
4. BMP's are illustratively shown with areas approximately 4% of the contributing impervious watershed. Treatment areas are shown illustratively, pending coordination with landscape design to be determined.

Legend

- Proposed Storm Drain
- Potential stormwater quality treatment/conveyance area

General Notes
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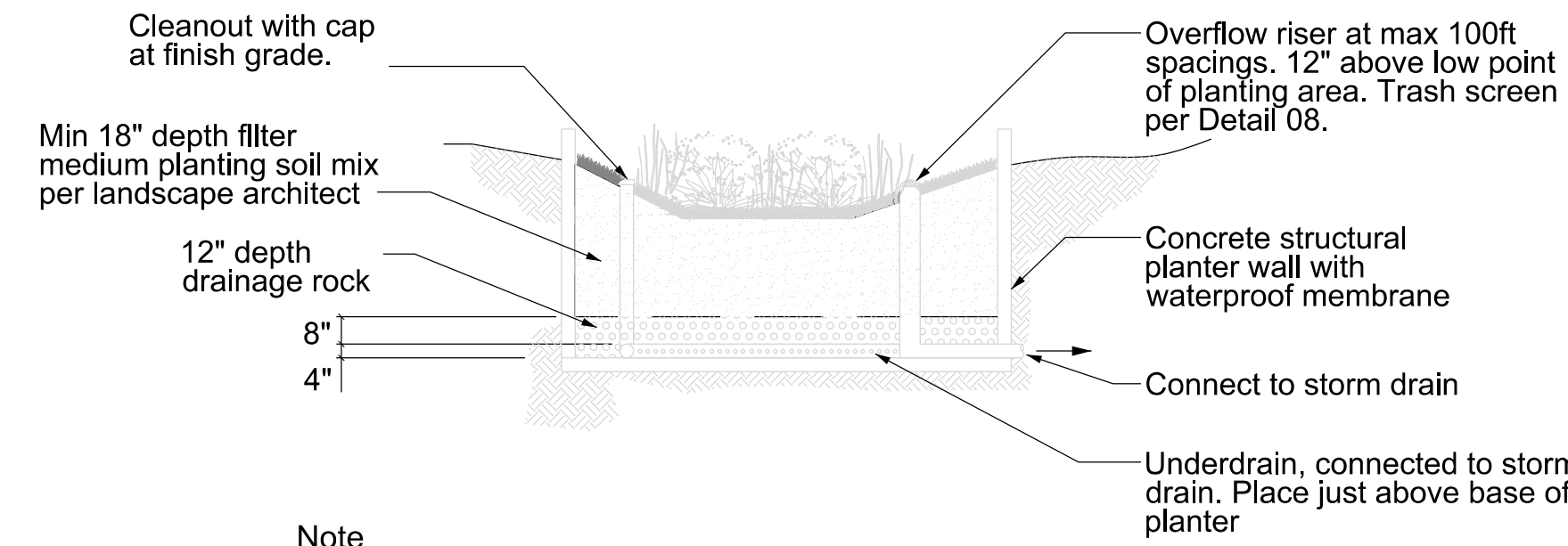
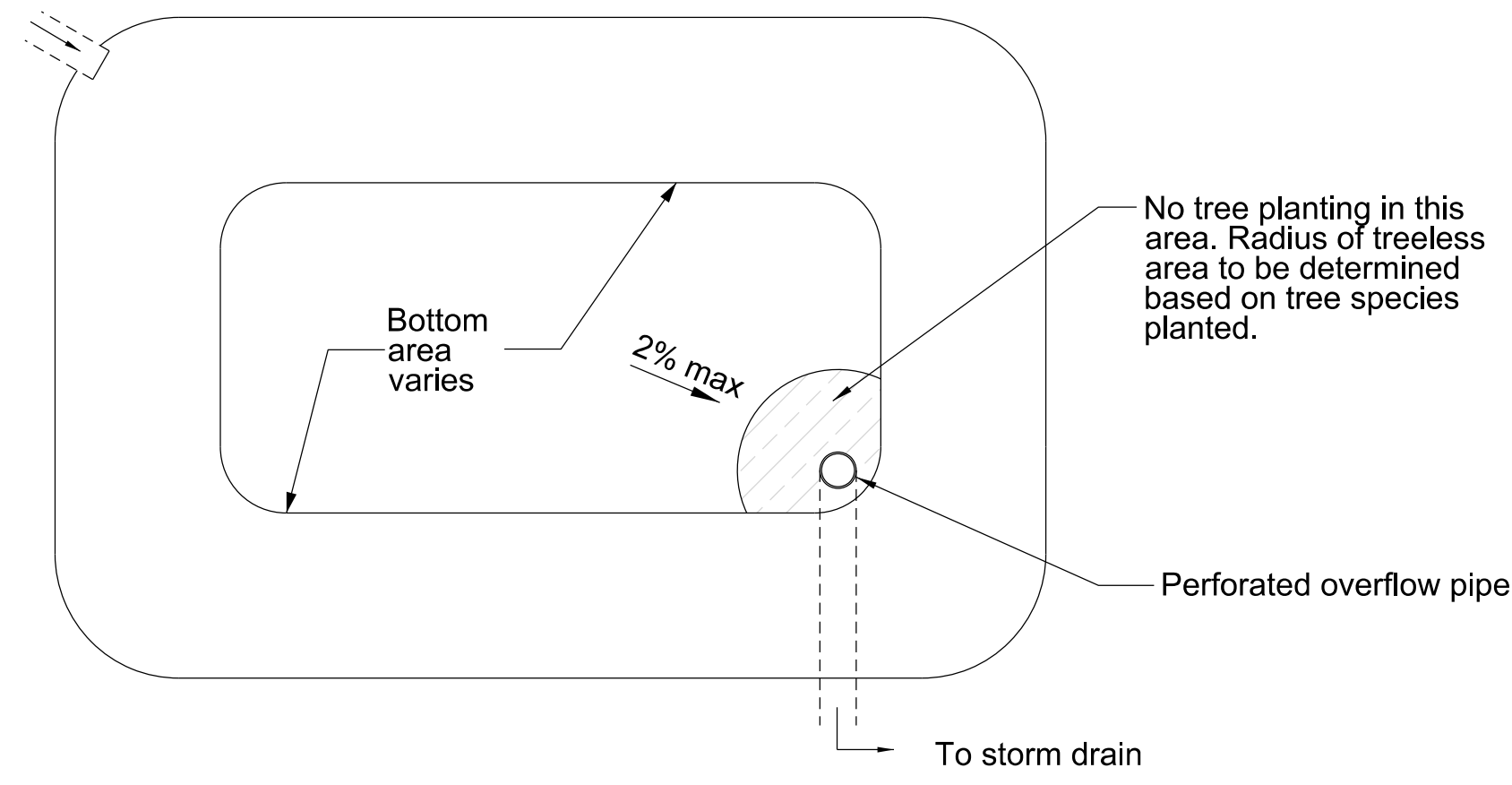
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Client:
Apple, Inc.

Project:
**Apple Campus 2, Phase 1
 North Tantau Avenue
 Site A
 Visitors Center & Parking**

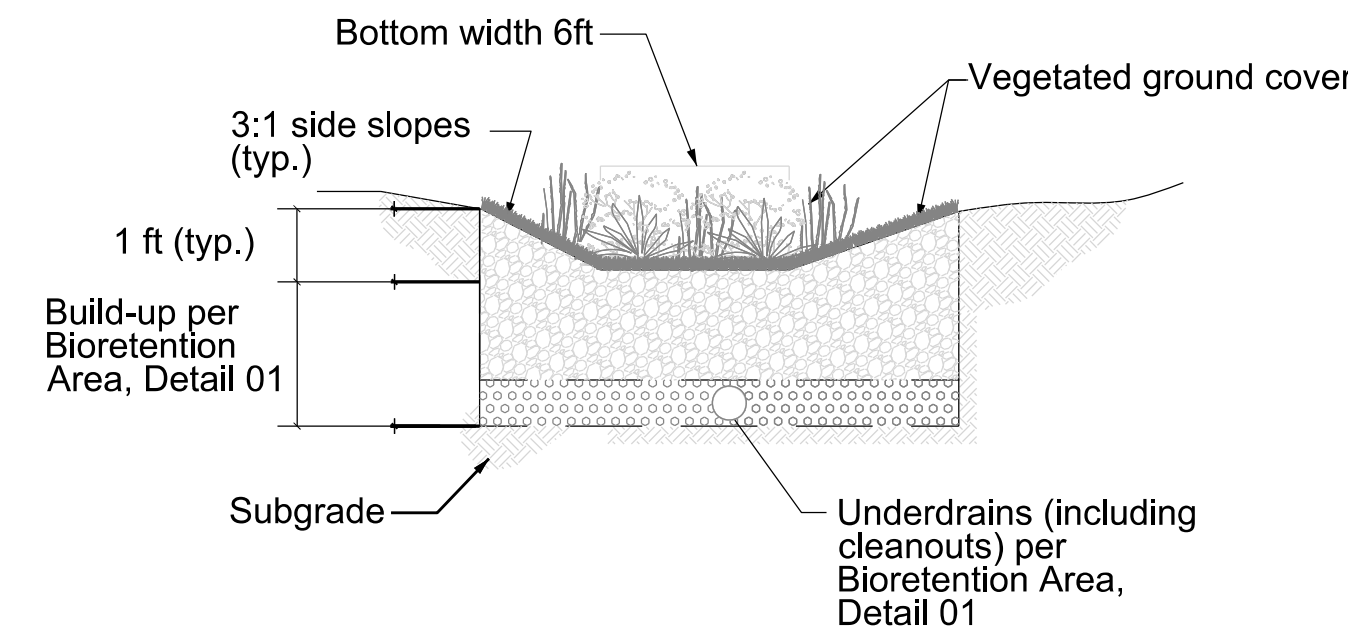
Title:
Proposed Storm Water Control

Project No.	Date	Scale at ARCH E1 Size
2193	02/25/2015	1"=30' (1:360)
Number	Revision	
P-VC-3.30	01	



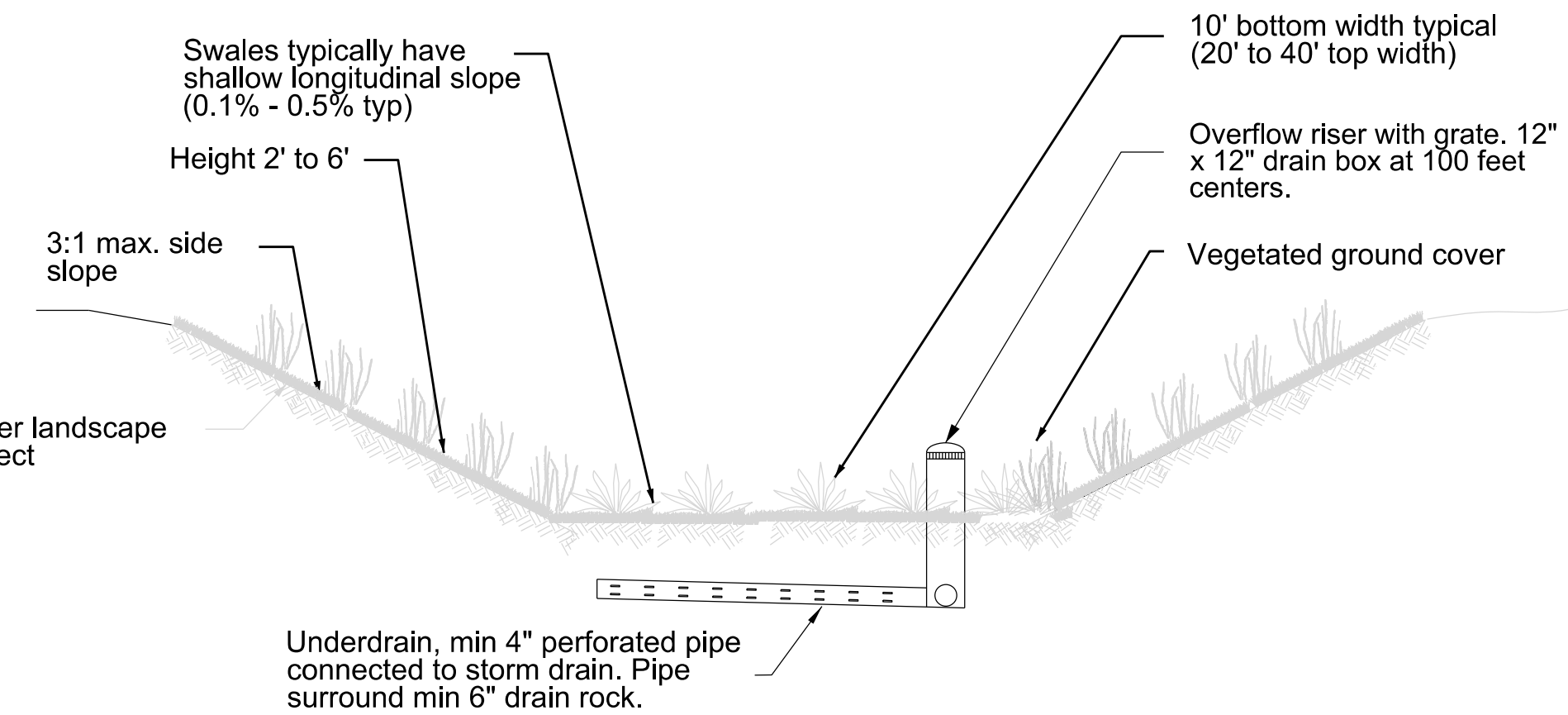
- Note
- The underdrain shall consist of a minimum 4" diameter perforated pipe connecting to a storm drain or discharge point. Minimum two rows of perforations shall be provided. Underdrains shall be placed with perforations facing downward, at a minimum 0.5% slope toward the storm drain or discharge point.
 - To avoid clogging, filter fabric should not be used in or around the underdrain or between the filter media planting soil mix and the drain rock.
 - A cleanout shall be provided for underdrains, consisting of a vertical, rigid, non-perforated HDPE pipe (min 4") with a water tight cap fit flush with the biotreatment soil surface.
 - Grouted rip rap apron to be provided at connections to buildings and at curb cuts.

04 Flow through planter

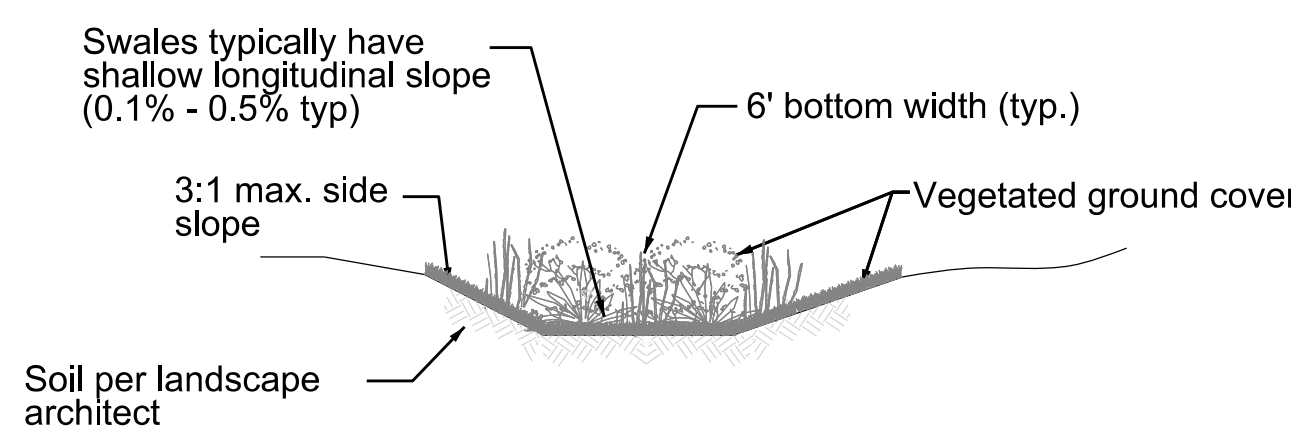


- Note
- Overflow risers shall be included per Bioretention Area Detail 01. Omitted for clarity.

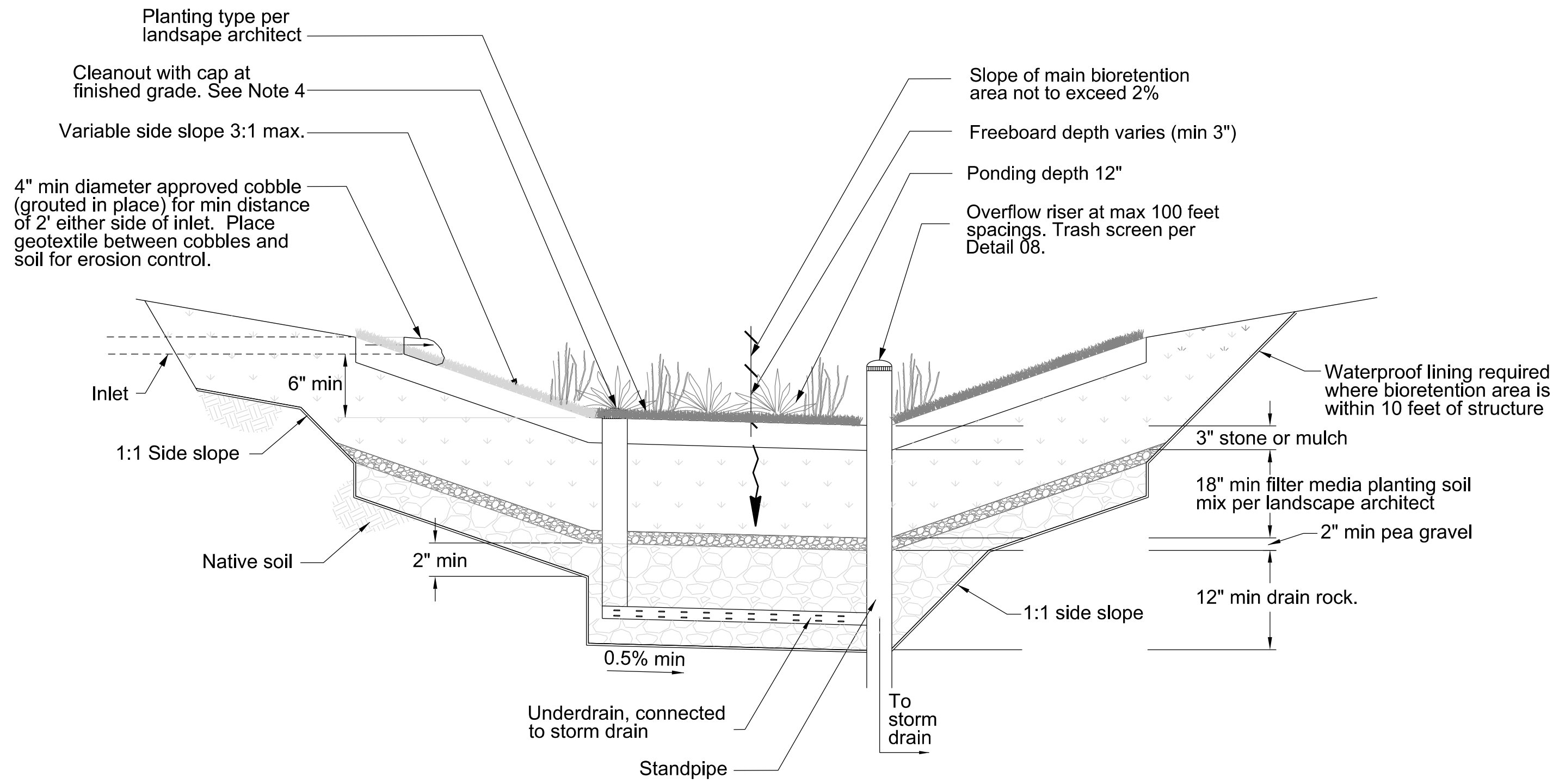
05 Bioretention Swale



06 Overflow Conveyance Swale for Large Rainfall Events



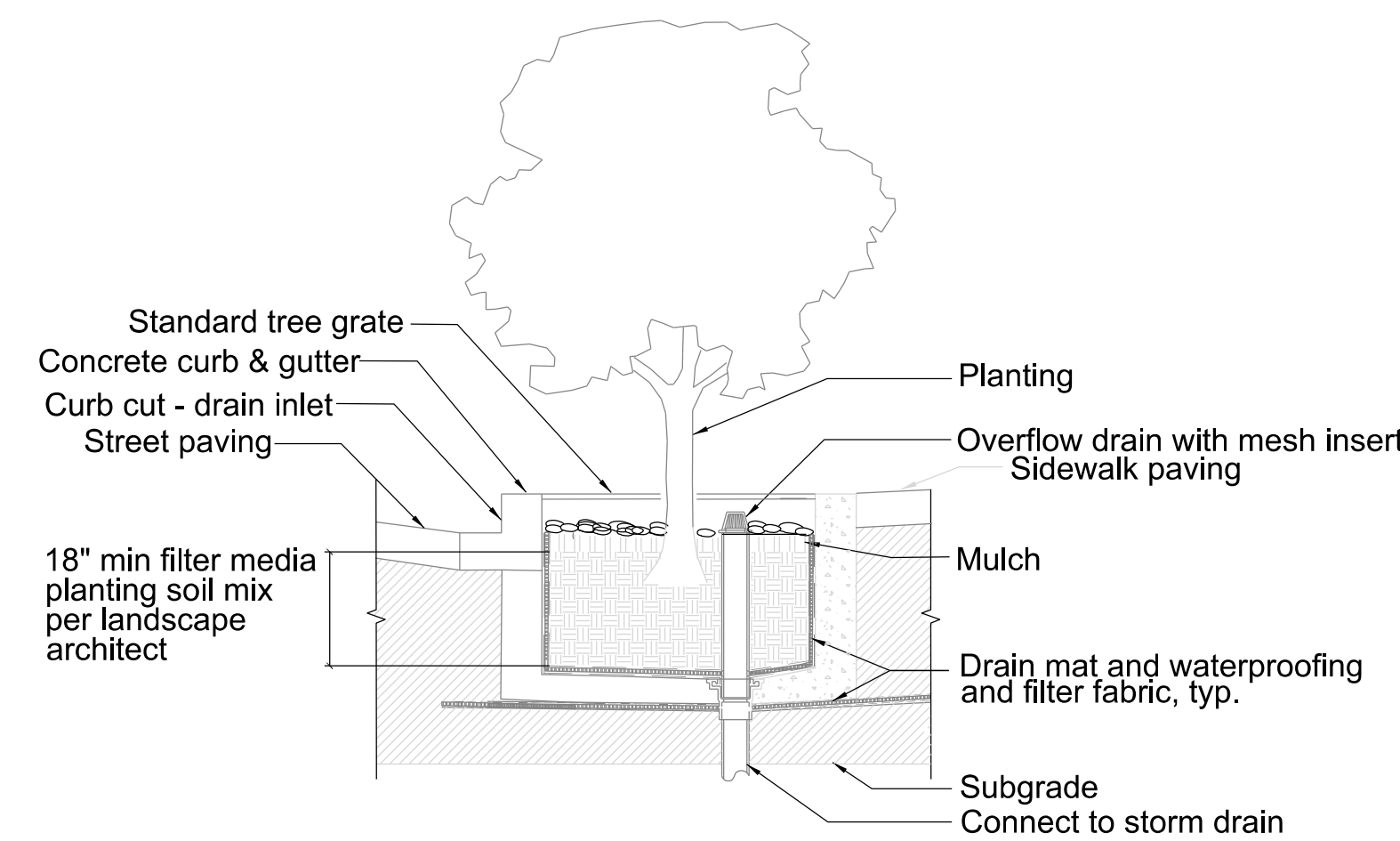
07 Conveyance Swale



Elevation

- Notes
- The underdrain shall consist of a minimum 4" diameter perforated pipe connecting to a storm drain or discharge point. Minimum two rows of perforation shall be provided. Underdrains shall be placed with perforations facing downward, at a minimum 0.5% slope toward the storm drain or discharge point.
 - To avoid clogging, filter fabric should not be used in or around the underdrain or between the filter media planting soil mix and the drain rock.
 - A cleanout shall be provided for underdrains, consisting of a vertical, rigid, non-perforated HDPE pipe (min 4") with a water tight cap fit flush with the biotreatment soil surface.
 - If waterproof lining is included, underdrains should be placed just above the waterproof fabric. Otherwise underdrains should be installed at least 6" above the base of the trench.

01 Bioretention Area

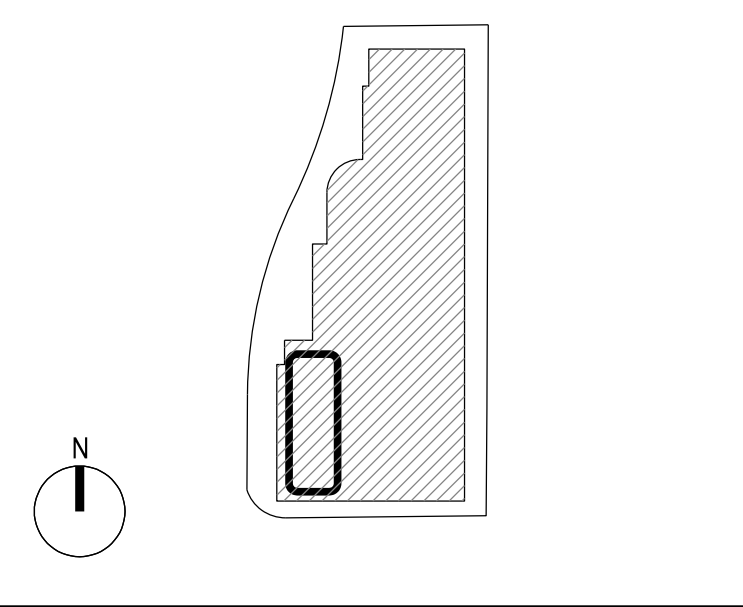


02 Bioretention Tree Planter

- General Notes
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Rev.	Date	Reason For Issue	MD	CHK.
00	02/25/2015	Planning - Site & Architectural Review		

Key Plan



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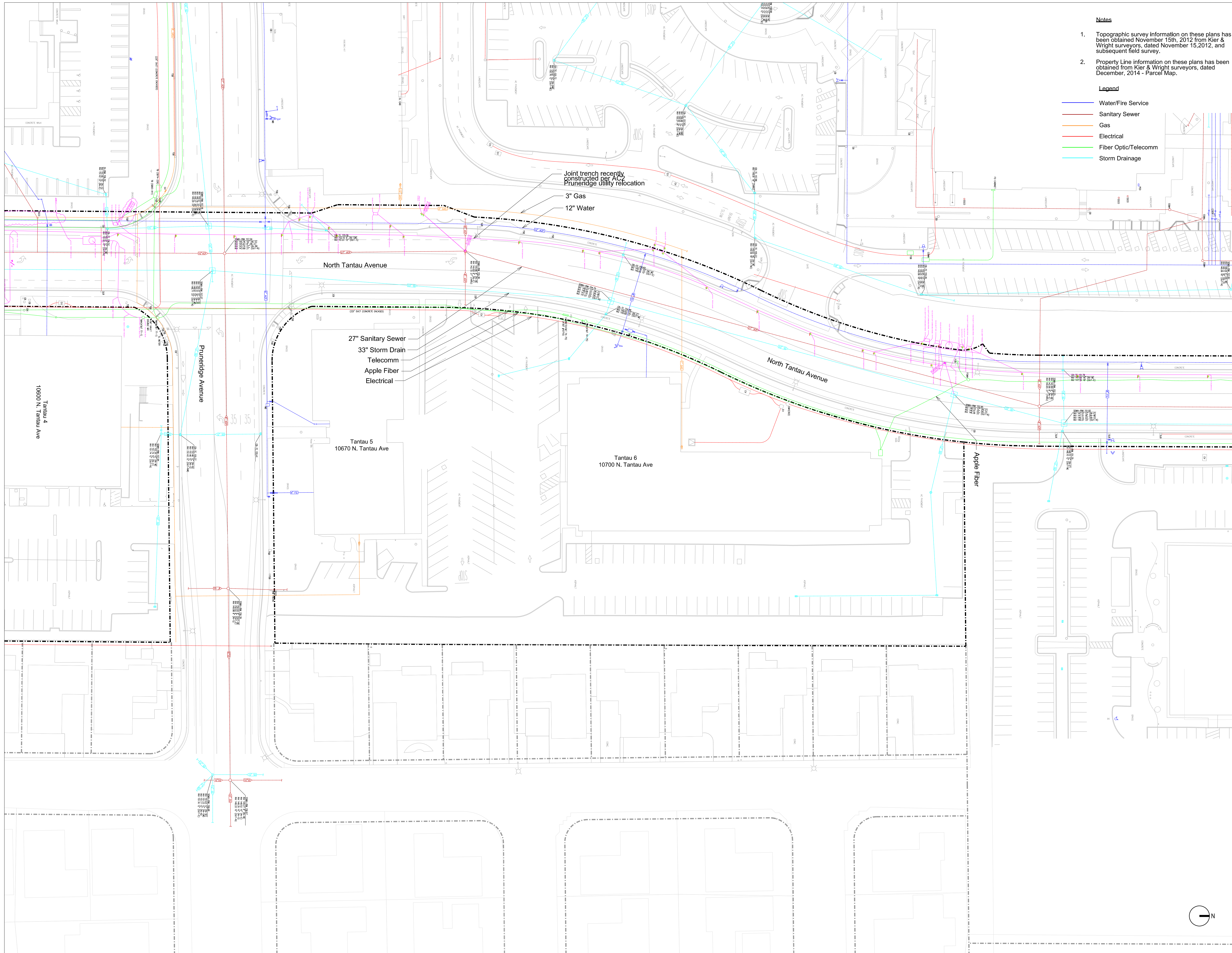
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 Hercules, CA 94547
 Phone: (510) 724-3388
 www.lukassociates.com

Client: Apple, Inc.

Project: Apple Campus 2, Phase 1
 North Tantau Avenue
 Site A
 Visitors Center & Parking

Title: Stormwater Quality BMP
 Typical Details

Project No.	Date	Scale at ARCH E1 Size
2193	02/25/2015	Not to Scale
Number	Revision	
P-3.31	00	



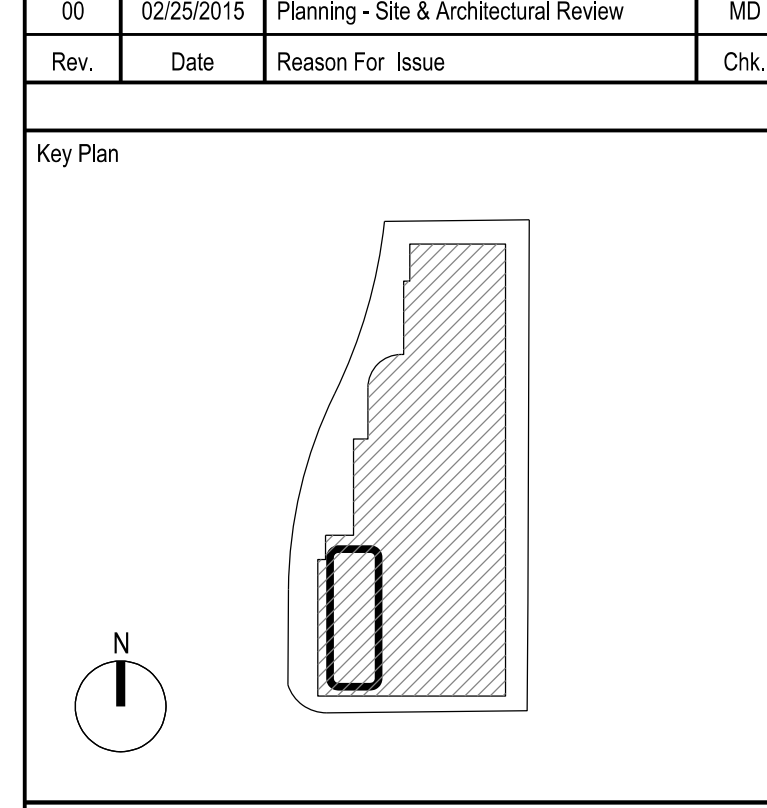
- Notes**
1. Topographic survey information on these plans has been obtained November 15th, 2012 from Kier & Wright surveyors, dated November 15, 2012, and subsequent field survey.
 2. Property Line information on these plans has been obtained from Kier & Wright surveyors, dated December, 2014 - Parcel Map.

- Legend**
- Water/Fire Service
 - Sanitary Sewer
 - Gas
 - Electrical
 - Fiber Optic/Telecomm
 - Storm Drainage

General Notes

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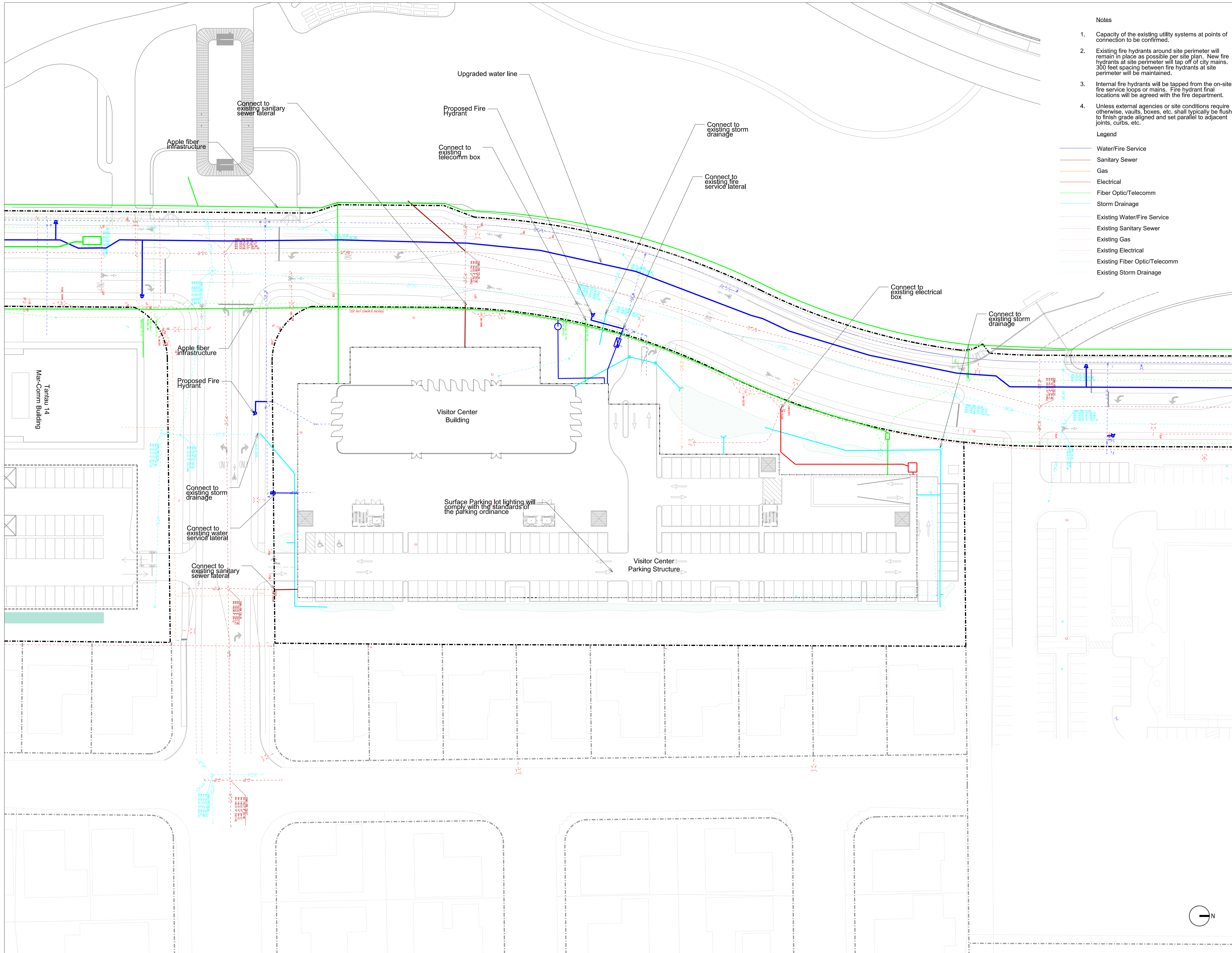
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Client:
Apple, Inc.

Project:
**Apple Campus 2, Phase 1
 North Tantau Avenue
 Site A
 Visitors Center & Parking**

Title:
Existing Utilities

Project No. 2193	Date 02/25/2015	Scale at ARCH E1 Size 1"=30' (1:360)
Number P-VC-3.40	Revision 00	



- Notes**
- Capacity of the existing utility systems at points of connection to be confirmed.
 - Existing fire hydrants around site perimeter will remain in place as possible per site plan. New fire hydrants at site perimeter will tap off of city mains. 300' feet spacing between fire hydrants at site perimeter will be maintained.
 - Internal fire hydrants will be tapped from the on-site fire service loops or mains. Fire hydrant final locations will be agreed with the fire department.
 - Unless external agencies or site conditions require otherwise, vaults, boxes, etc. shall typically be flush to finish grade aligned and set parallel to adjacent joints, curbs, etc.
- Legend**
- Water/Fire Service
 - Sanitary Sewer
 - Gas
 - Electrical
 - Fiber Optic/Telecomm
 - Storm Drainage
 - Existing Water/Fire Service
 - Existing Sanitary Sewer
 - Existing Gas
 - Existing Electrical
 - Existing Fiber Optic/Telecomm
 - Existing Storm Drainage

General Notes

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 Site A
 Visitors Center & Parking**

Title:
Proposed Utilities

Project No.	Date	Scale at ARCH E1 Size
2193	02/25/2015	1"=30' (1:360)
Number	Revision	
P-VC-3.50	01	