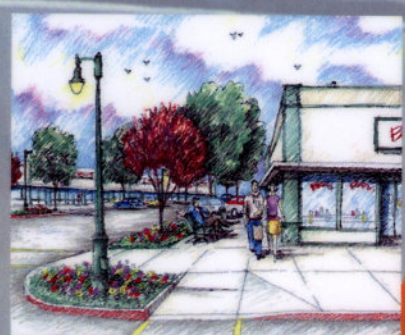
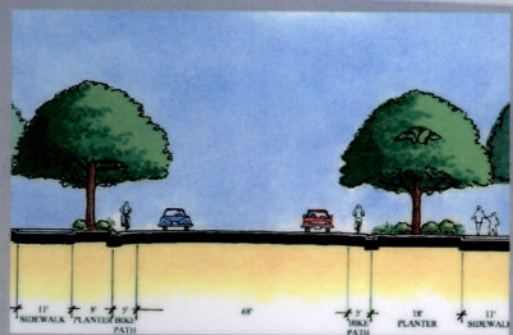
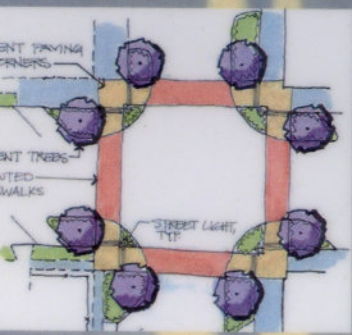


Attachment G

**DESIGN AND ENGINEERING DOCUMENTS**

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Front Street Reconstruction Design Report  
City of Crescent City  
September 23, 2005

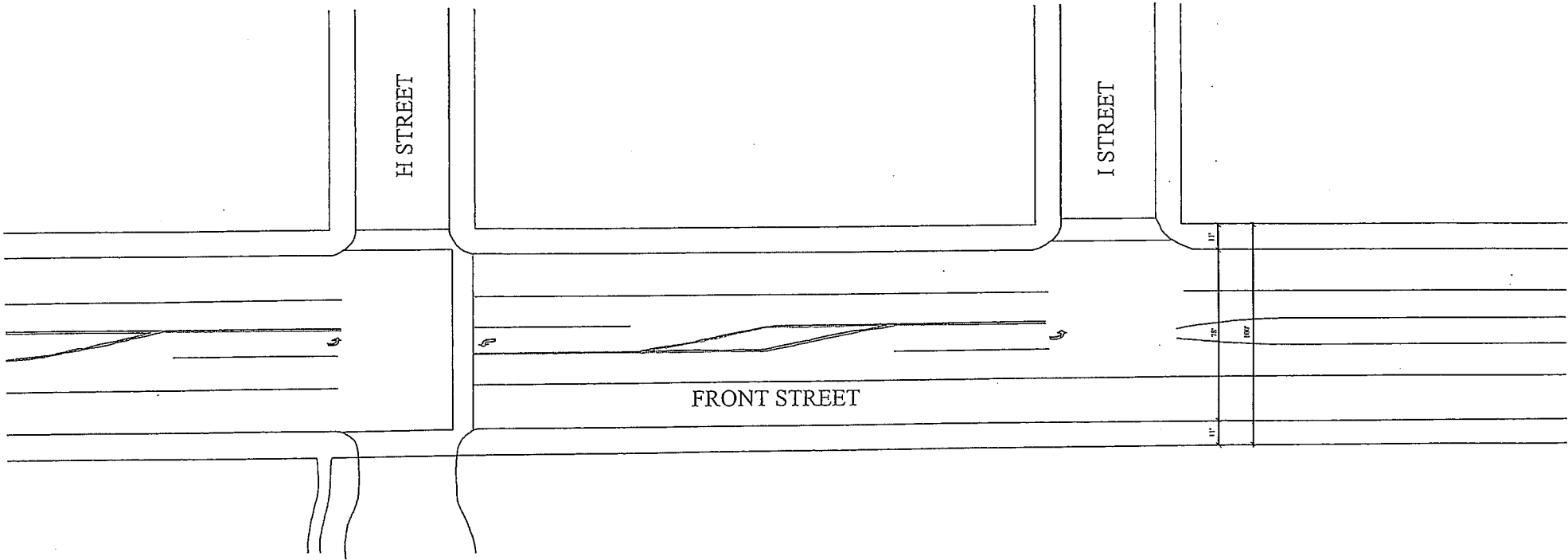
## **Executive Summary**

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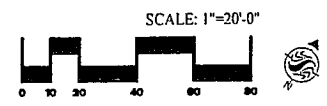
This document summarizes the community design process that was followed to evaluate alternatives for the reconstruction of Front Street. In addition, this document includes the alternatives studied along the way and the preferred alternative derived from the community input. Finally, an opinion of probable construction cost per the preferred alternative is included within.

Front Street runs east-west and is bordered by the local business district on the north, Highway 101 on the east, Beach Front Park on the south, and the Pacific Ocean on the west. Currently Front Street is an important linkage to Highway 101, Beach Front Park, B Street Pier, Battery Point Lighthouse, the local businesses and Pebble Beach Drive. The study area begins at A Street on the west and ends at N Street on the east.

Front Street is the widest lettered streets in Crescent City. The street measures 100' from the rights of way. The current configuration from north to south includes parallel parking, two west bound lanes, striped turn lanes, two east bound lanes, and parallel parking (see figure 1). The existing pavement, both asphalt and concrete, is in poor condition and sidewalks at intersections do not meet Americans with Disability Act (ADA) standards. Sidewalks have been reconstructed between H street and I street on the north side of Front Street.



EXISTING CONDITION



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## **1.0 Introduction**

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The City of Crescent City is considering the reconstruction of Front Street. The poor condition of the existing pavement and sidewalks warrants this reconstruction. Prior to reconstruction, Crescent City has commissioned Stantec to prepare this report to study additional opportunities in which to improve circulation, signage, amount of vegetation, and safety. Maintaining continuity between all of the existing elements located in and around Front Street will be studied as well. Examples of these elements are the existing landmarks in and along Beachfront Park, as well as the connections to the downtown area.

This report examines the connections from Highway 101, existing and proposed parking, vehicular circulation, pedestrian circulation, bicycle circulation and connections to the Battery Point Recreation Area.

The report is organized into major sections as follows:

- Section 2.0 Existing Document Studies explains portions of other previous reports and plans that could influence or have impact upon Front Street.
- Section 3.0 Existing Conditions examines the site with a partial photographic record of areas of concern and opportunities.
- Section 4.0 discusses the first community workshop methods and outcome.
- Section 5.0 discusses the second and final community workshop method and outcome.
- Section 6.0 shows the preferred plan and the opinion of probable construction costs for the preferred improvements.

## **2.0 Existing Reports and Studies**

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The purpose of this Section is to describe Stantec's analysis for the proposed Front Street Reconstruction Project in Crescent City, California. Specifically, Stantec was requested to perform the following tasks:

- Review the Battery Point Redevelopment Plan
- Review the City of Crescent City Action Plan for Downtown Revitalization
- Review the City of Crescent City General Plan

In addition to this, Stantec reviewed the history along Front Street dating back to the 1800's.

The following information was provided to Stantec to complete the analysis:

- Crescent City Waterfront - Battery Point Recreation Area Update, dated November 2003
- Action Plan for Downtown Revitalization 2003 Update
- City of Crescent City General Plan, dated May 21, 2001

The analysis is described below under the categories of each of the topics listed above.

### **2.1 HISTORY OF CRESCENT CITY**

Prior to commencing with the design, Stantec contacted the Del Norte Historical Society to gain a better understanding of the community and how development occurred.

Named for the semi-circle shaped bay on which it "sits", Crescent City has a long and varied history beginning when Del Norte County was founded in 1851. The gold rush was on and word was out about the first settlement in Klamath (now Del Norte, or "the north", County).

Even before that, though, schooners began arriving in the bay in 1850. A schooner called "the Paragon" arrived in the harbor and was wrecked on the beach below the site of the present town. Other records indicate that parties of prospectors visited the place in 1851, however no settlement was established at that time. In the winter of 1852-1853, A.M. Rosborough purchased a land warrant in J.F. Wendell's name for the 320 acres of land on which Crescent City now sits. In February of 1853, T.P. Robinson surveyed the land and divided it into town lots. In the spring of 1853, one house was standing on the present site of Crescent City. By the spring of 1854, the town contained nearly three hundred houses with a population of 800 to 900. The scene was a typical California mining town. The streets were filled with people and presented a very busy scene. Miners from the mountains, farmers from the valley, merchants,

**Stantec**  
**CITY OF CRESCENT CITY**  
**DESIGN REPORT**  
**FRONT STREET RECONSTRUCTION**

Existing Reports and Studies  
June 2005

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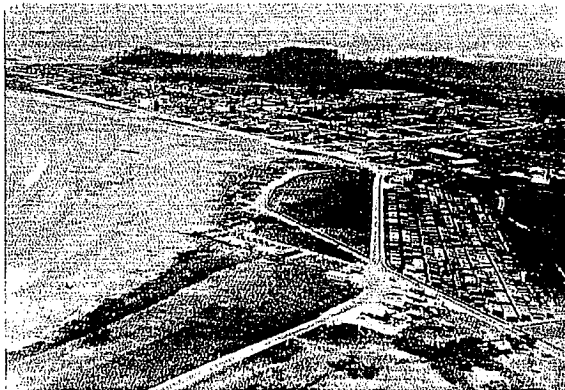
traders, and land speculators were taking an active role in business along Front Street, then known as First Street.

The hustle and bustle of Front Street was not without problems. With its proximity to the Pacific Ocean, Front Street was often plagued by high tides and large debris carried down by close rivers. Some of the debris, mixed with large waves, battered the Front Street corridor. Photos depict the big tide of February 8, 1915...and the resulting mess.

As a result of the tides and damage that kept occurring, a large sea wall was erected along the south side of Front Street. Beach Front Park, a larger buffer to Front Street was under construction when one of the darkest days in Front Street's history came rolling in. The tidal wave on March 28, 1964 spurred on by the 8.4 magnitude earthquake in Prince William Sound, Alaska, devastated the City. Twenty-nine city blocks were left in total or partial ruins. A combined total of 289 businesses and homes were hit. One building was left standing on Front Street. Not even the sea wall could protect the vulnerability of Front Street.

Today, the sea wall is barely visible along the park and looks like a raised curb.

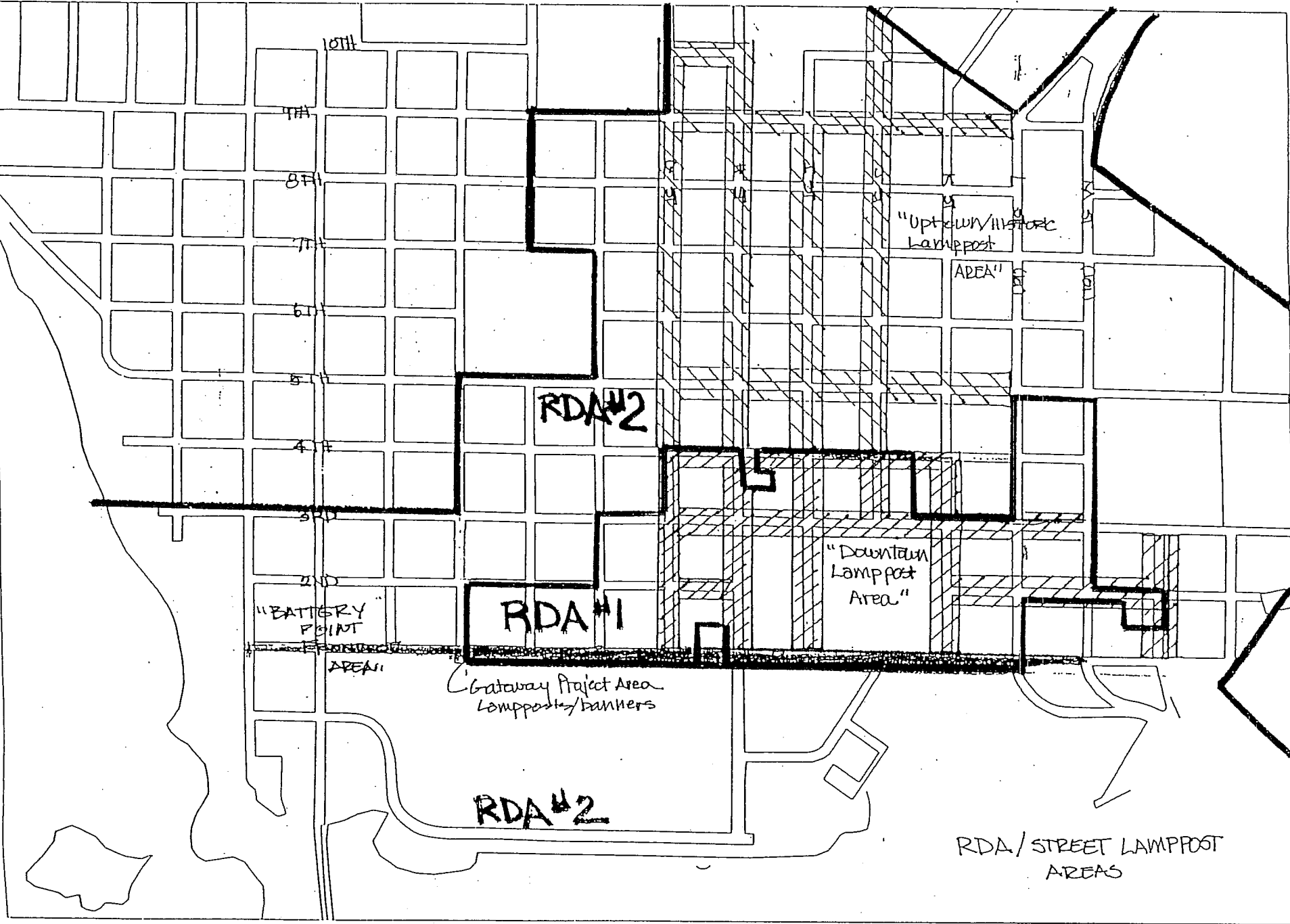
The photo below shows Front Street as approached from the south. Front Street appears to be the main entry into town. Over time, it has been somewhat redirected and the main entry is not easily identified.



## **2.2 BATTERY POINT RECREATION AREA**

Some of the goals within the Battery Point Recreation Area Plan are to create a successful visitor/recreation district with things to do or see, with easy access and a pleasant setting. Part of that plan is to maintain and improve the circulation and parking for the Battery Point Lighthouse, B Street Pier and potentially new businesses within the district. During the initial development of alternatives, these items were discussed and displayed in the Goals and Objectives of the first community meeting.





"BATTERY POINT AREA"

Gateway Project Area Lamppost/banners

RDA #2

RDA #1

RDA #2

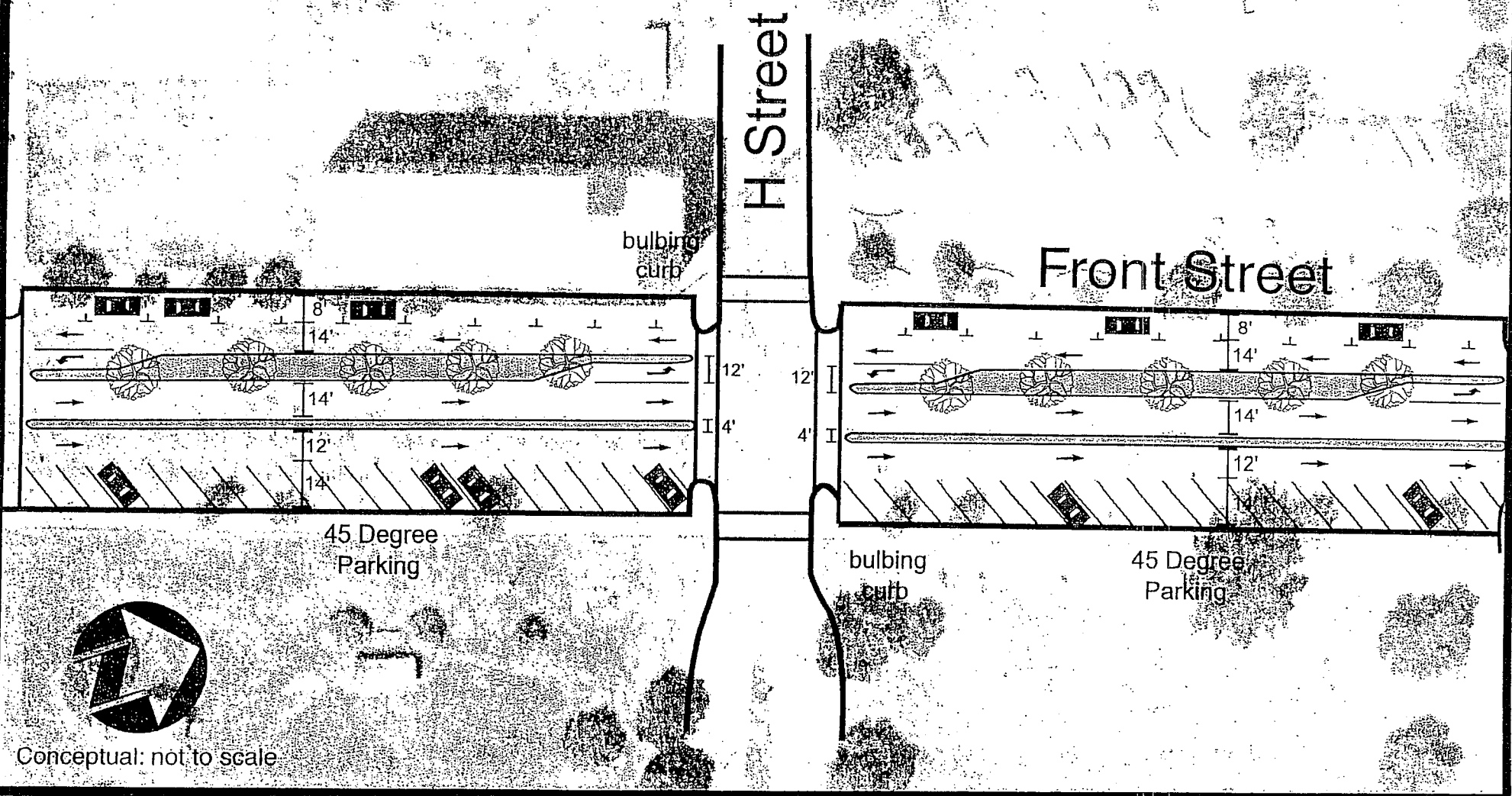
"Downtown Lamppost Area"

"Uptown Village Lamppost Area"

RDA / STREET LAMPOST AREAS

# Figure 3-4

## Proposed Front Street Improvements



Conceptual: not to scale

## 3.0 Existing Conditions

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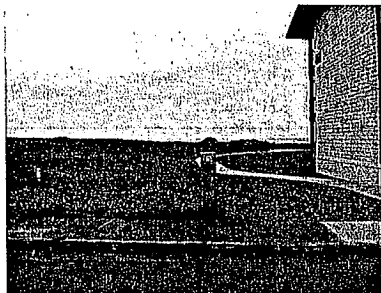
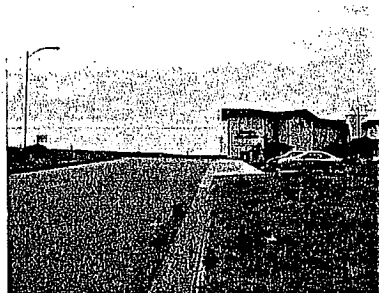
### 3.1 INTRODUCTION

The following is a pictorial and narrative description of the existing conditions along Front Street. A photographic record is available for the entire site however only a few photos have been used in this document to note some of the typical conditions. The photo log started on the south side of A Street and progressed east towards N Street. A complete loop was made on the north side of Front Street from N Street back to A Street. The following discussion addresses existing:

- Right of way conditions
- Pavement conditions (both asphalt and concrete)
- Tree conditions
- Lighting
- Signage
- Landmarks
- Circulation

### 3.2 PHOTOGRAPHIC INVENTORY

The first two photos are at the terminus of Front Street and A Street adjacent to the Hampton Inn. This is where there is a connection to the walking trail along the ocean. The signage for this trail is very small and is not recognizable until you are right upon it. Since the Hampton Inn was located here, the access to A Street has been cut off. The loss of this connection to A Street from Front Street was a common complaint heard in both of the community meetings.

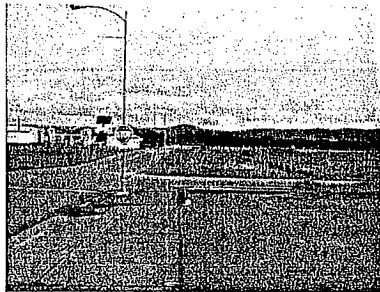


**Stantec**  
**CITY OF CRESCENT CITY**  
**DESIGN REPORT**  
**FRONT STREET RECONSTRUCTION**

Existing Conditions  
June 2005

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Photo three shows the narrower street width between A Street and D Street. The recycling center occupies the south side of the street where Front Street narrows. On the right hand side of the photo, the Park is marked with a concrete bollard barrier along what appears to be the edge of the ultimate right of way.



The typical condition along the edge of Beach Front Park is the large curb that extends along a majority of the Park. This curb is the actual seawall that was erected many years ago and extends 10 to 15' into the ground. Signage is located near the recycling center describing the seawall. Adjacent to the seawall is the 8' wide sidewalk that is punctuated by smaller scale trees in tree wells. Some of this vegetation is in poor condition and can be attributed to somewhat harsh living conditions, small planter areas and lack of continual maintenance.

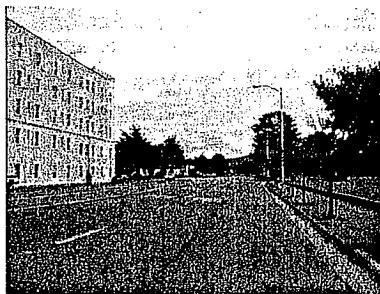


Photo five shows a typical intersection with vertical curb at the intersection. The intersection does not meet accessibility requirements.

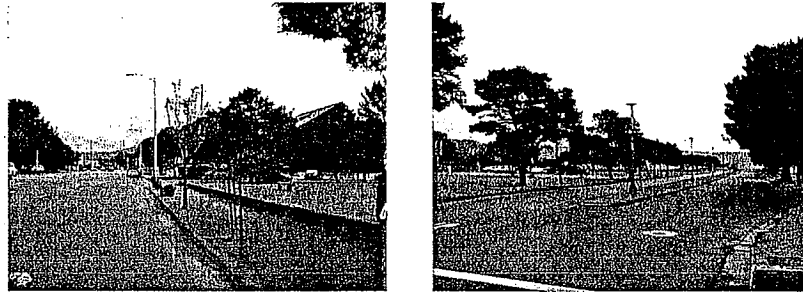


**Stantec**  
**CITY OF CRESCENT CITY**  
**DESIGN REPORT**  
**FRONT STREET RECONSTRUCTION**

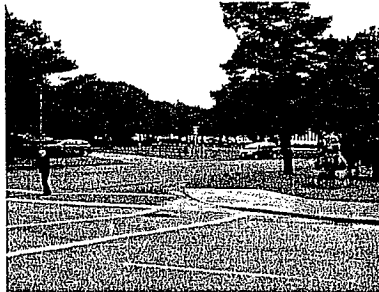
Existing Conditions  
June 2005

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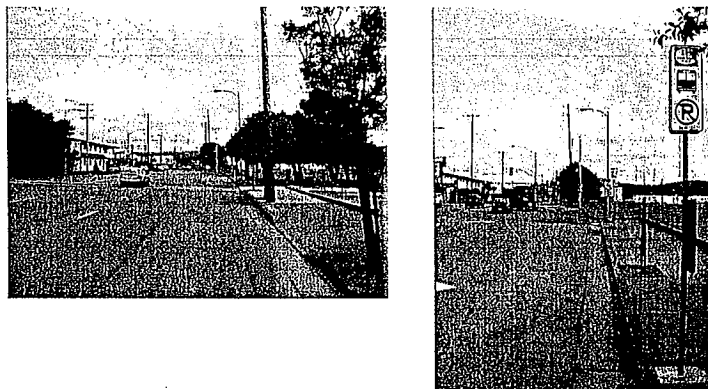
Photograph six and seven show the different styles of light standards located along Front Street and in Beachfront Park. Some of the light standards in the park are deteriorating. As seen in the first photo, some of the standards have the wood pilings while others do not. Also note that in some cases large rocks or wood pilings have replaced missing trees. Some tree wells remain unplanted.



Signage for the visitor center is tucked into the park, where it is often missed. In addition, the bear for kid town sits alone with no description. In this intersection, it is easy to spot the differences in the pavement elevations. Careful consideration will need to be undertaken to overlay asphalt at this location.



Proceeding east, Front Street starts to narrow where it intersects with L Street (southbound 101). There are some circulation issues with the bus stop, which is located on the right hand side of the photo. The buses have to cross a lane of traffic in a short stretch to make a left hand turn onto M Street. In addition, sidewalk is missing from just east of the bus stop to the streetlight at L Street.

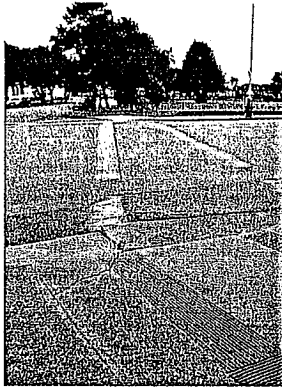


**Stantec**  
**CITY OF CRESCENT CITY**  
**DESIGN REPORT**  
**FRONT STREET RECONSTRUCTION**

Existing Conditions  
June 2005

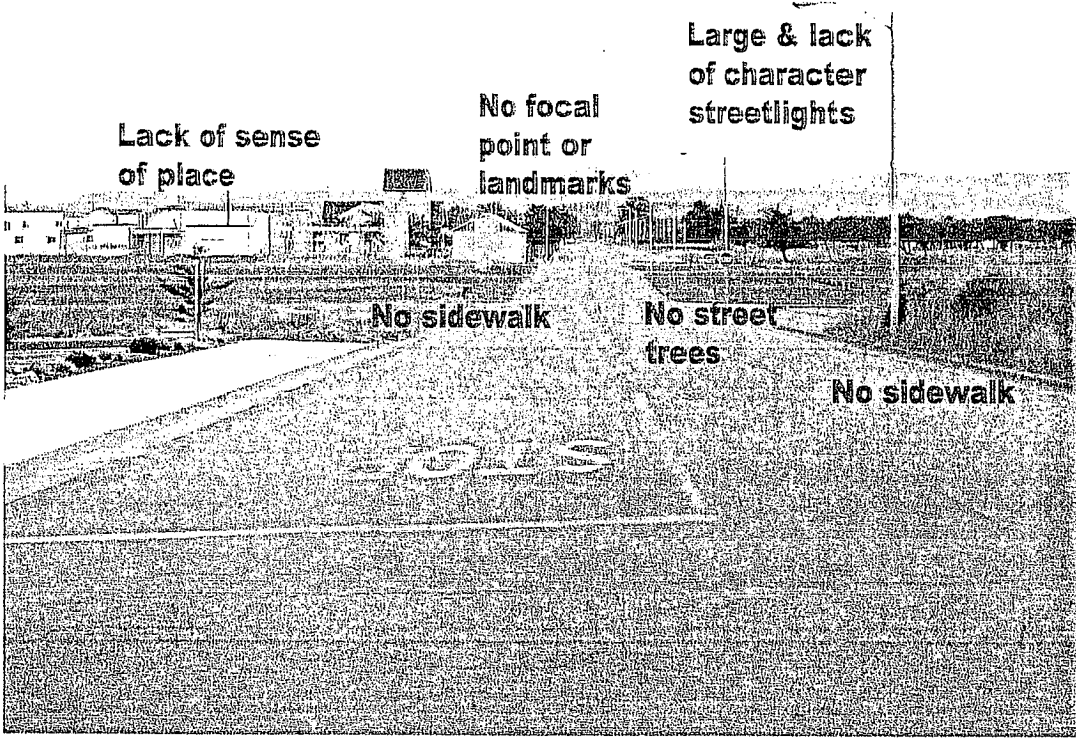
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The photos below show some of the hazardous sidewalk and asphalt pavement conditions. The photos show where the sidewalk and asphalt has heaved. The last photo shows the "alligating" and unevenness of the pavement. All of the pavement in this area has deteriorated and is need of repair.

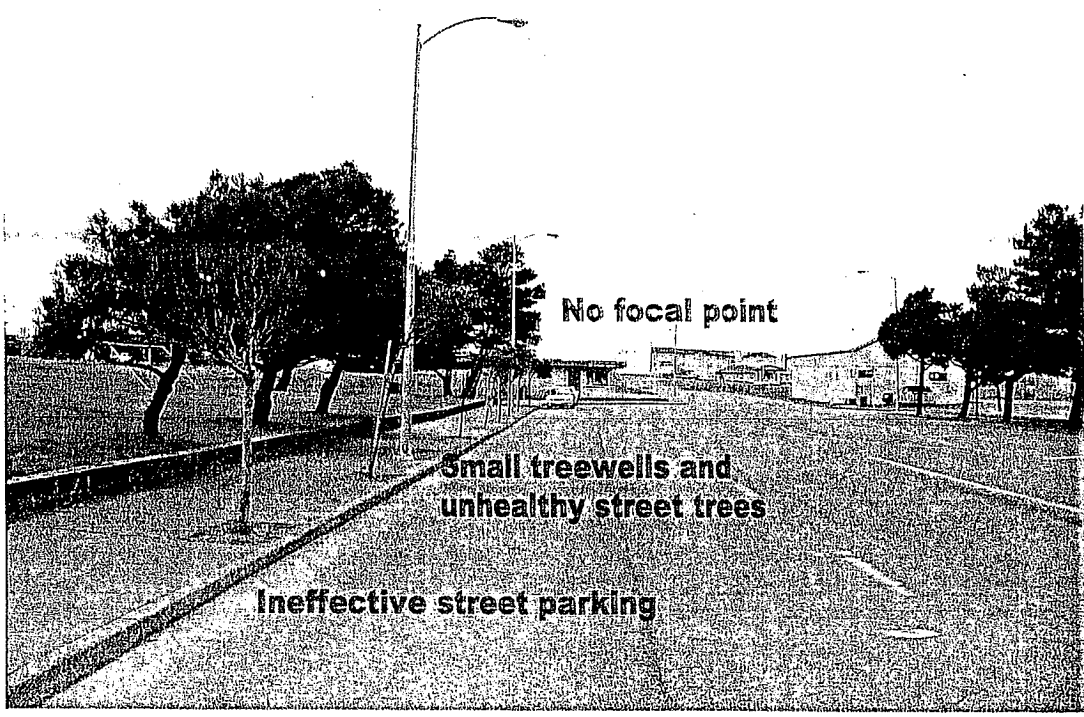


Additional existing conditions are noted on the following pages.

● ● ● ● ● TYPICAL EXISTING CONDITIONS

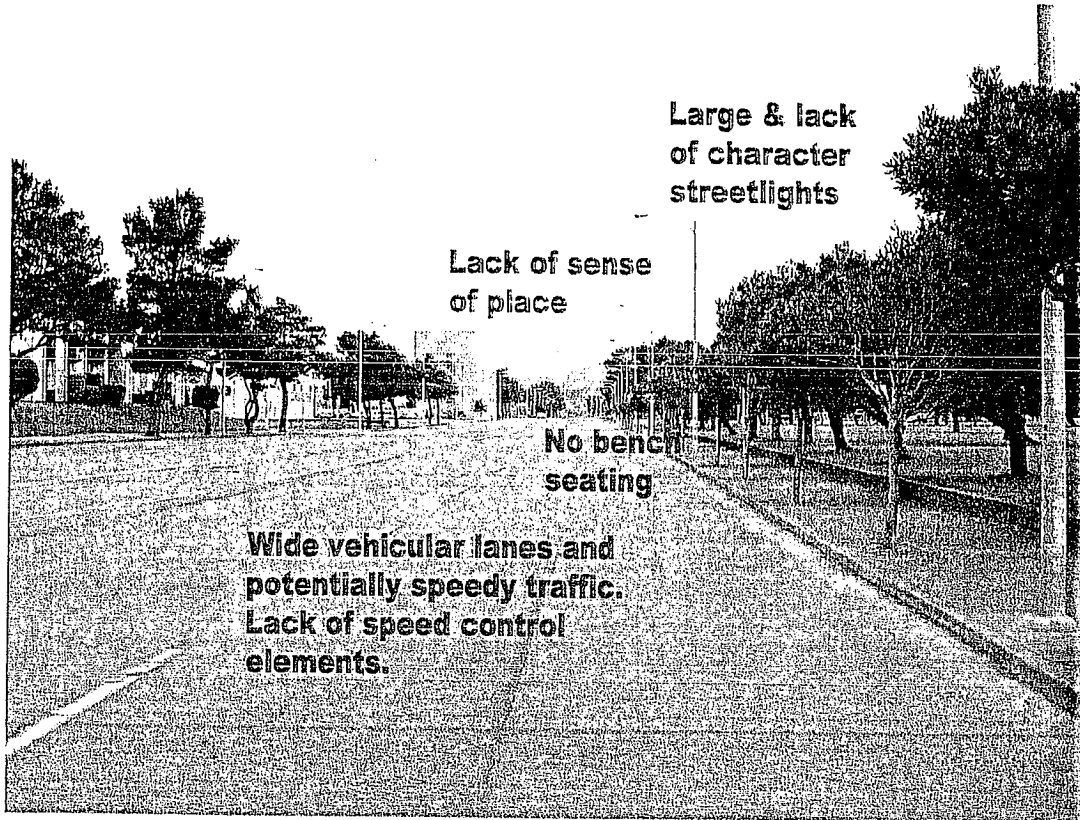


A STREET AND FRONT STREET TOWARDS NORTHEAST

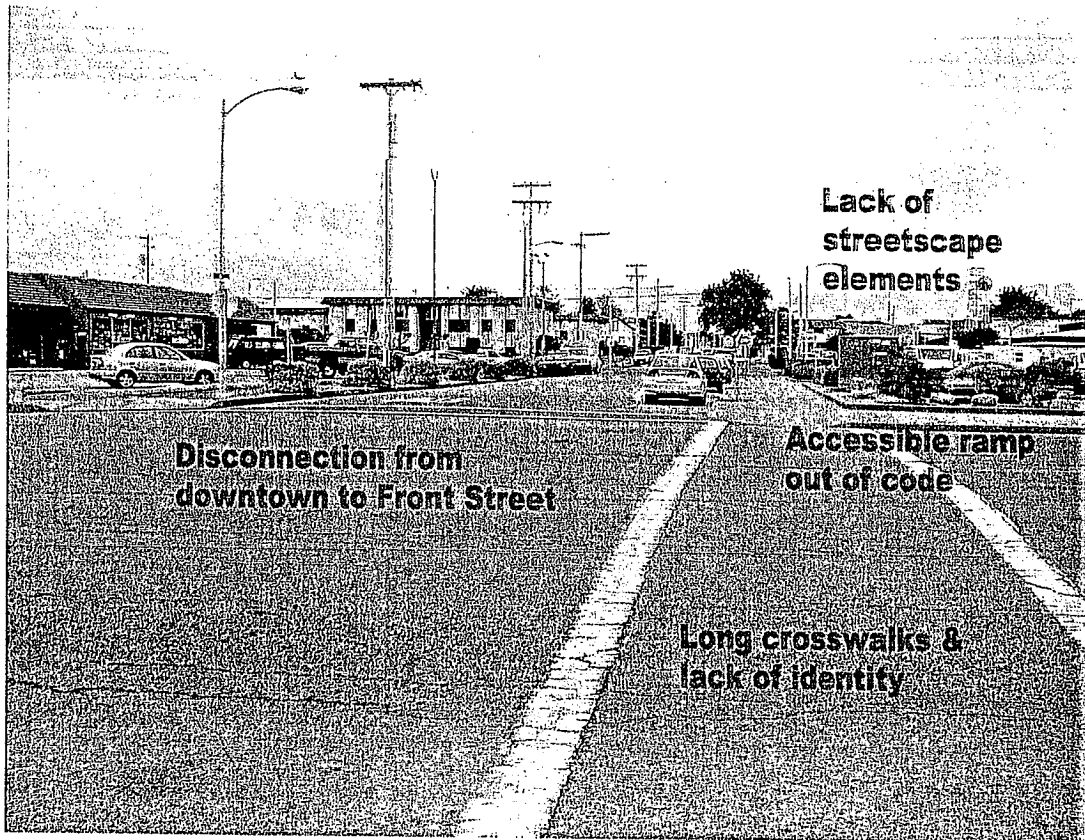


FRONT STREET AND E STREET TOWARDS SOUTHWEST

● ● ● ● ● TYPICAL EXISTING CONDITIONS



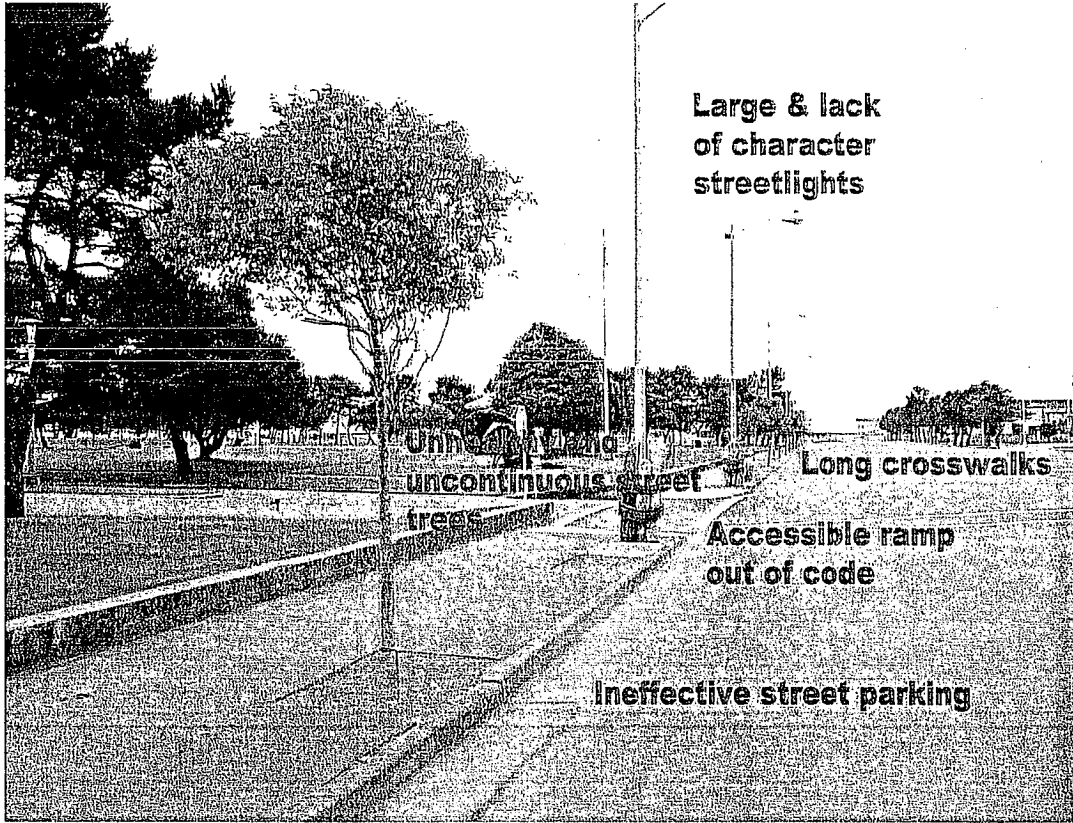
FRONT STREET TOWARDS F STREET



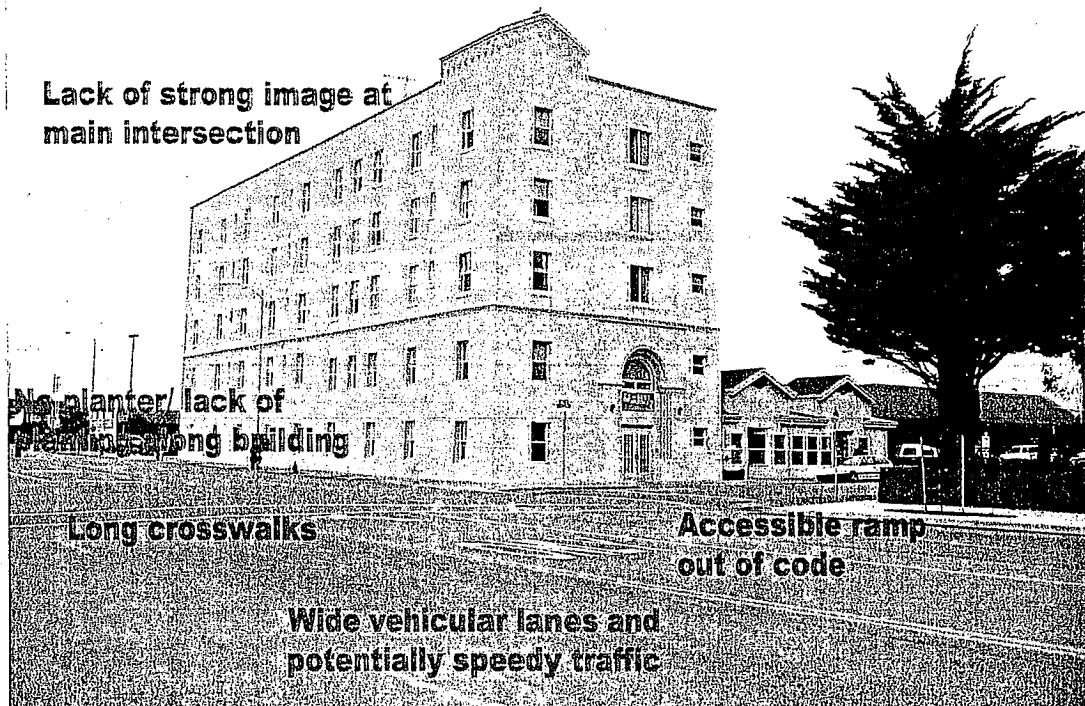
G STREET AND FRONT STREET INTERSECTION



● ● ● ● ● TYPICAL EXISTING CONDITIONS

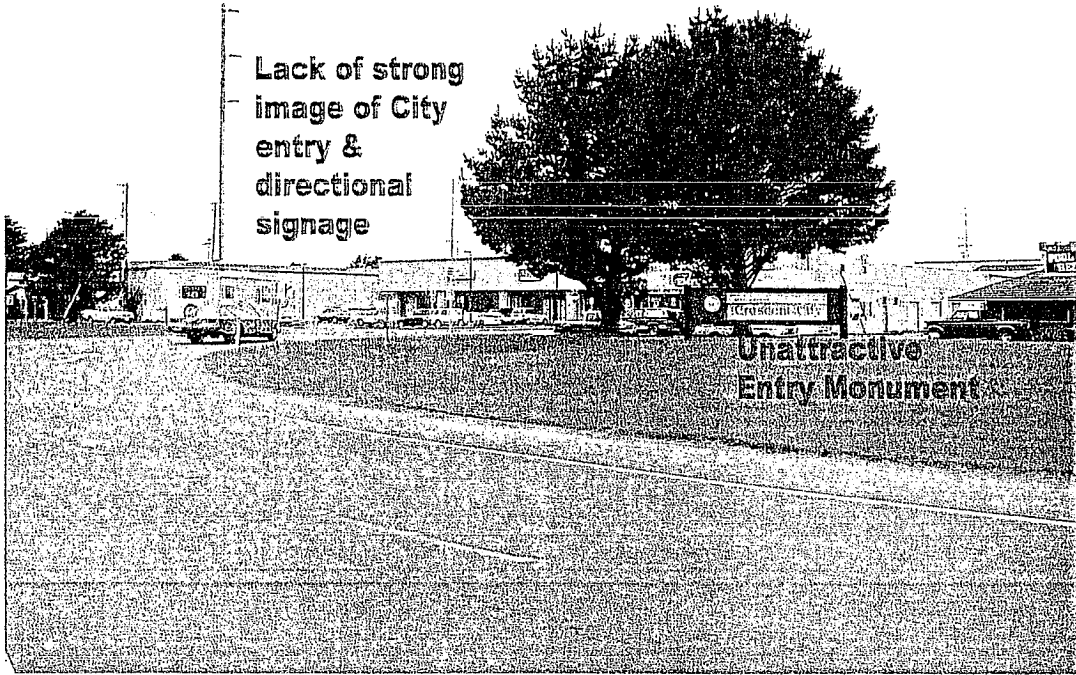


H STREET AND FRONT STREET INTERSECTION



H STREET AND FRONT STREET INTERSECTION

● ● ● ● ● TYPICAL EXISTING CONDITIONS



HW 101 NORTH TOWARDS FRONT STREET



FRONT STREET AND HW 101 NORTH

## **4.0 Community Workshop #1**

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The first community workshop was held in the Visitor Center Council Chambers. The workshop was fairly well attended by about 30 to 35 citizens.

### **4.1 INTRODUCTION**

Jim Barnts, City of Crescent City Public Works Director, opened the meeting. An introduction of the project was delivered and then turned over to Stantec.

An overview of the various documents and steps followed to prepare for the community meeting was provided. The following sections 4.2 through 4.6 outlines the presentation:

### **4.2 GOALS AND OBJECTIVES**

The goals and objectives were derived from the review of the various documents listed above in Section 3. An enlargement was prepared for the community meeting (see figure 4.2)

### **4.3 EXISTING CONDITIONS**

The existing conditions plan (see figure 4.3) is a colored aerial map that highlights some of the key features and existing elements such as the pedestrian/ walking trail, bicycle trail, Waste Water Treatment Plant, Marine Mammal Center, "kidtown" play area, Visitor Center, bus stop and some of the main intersections. In addition, this exhibit has contour lines that show up in orange and yellow. This indicates that the highest point of Front Street is at A Street.

### **4.4 PAST, PRESENT, AND FUTURE**

The past, present, and future exhibit displays a few of the historic photos of Front Street, some of the present photos and examples of cities and small towns that have recently been enhanced on a similar scale to Front Street in Crescent City. One of the examples is identical in size and scale and is shown on the bottom of figure 4.4.

### **4.5 GENERAL PLAN, ALTERNATE IDEAS**

In the General Plan under Section 3 Transportation and Circulation, the City's goals, policies and programs can be found in relation to the continued development and enhancement of Crescent City's transportation and circulation systems. Many of these elements were listed in the goals and objectives above. More importantly, various diagrams had been studied for the transition from Highway 101 to Front Street (see figures 4.5A and 4.5B) as well as a typical diagram for Front Street and H Street (see figure 4.5C).

The typical Front Street plan from the General Plan was made available at the community meeting and was expanded upon to show the entire length of Front Street (see figures 4.5D, E, F).

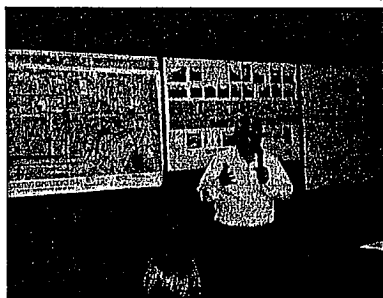
In the General Plan alternative, the typical street section from north to south is; sidewalk, parallel parking, one westbound travel lane, raised median with tree planting and turn pockets for vehicles, one eastbound travel lane, raised median, another eastbound travel lane (to service diagonal parking on the south side of the street), diagonal parking and sidewalk. Two alternatives were prepared (see figure 4.5G and 4.5H) to generate comments and ideas from the community.

In Alternative One, the typical street section from north to south is; sidewalk, parallel parking (with bump outs for planting), bike lane, one westbound travel lane, raised median with tree planting and turn pockets for vehicles, one eastbound travel lane, bike lane, diagonal parking (with bump outs for planting), and sidewalk.

In Alternative Two, the typical street section from north to south is; sidewalk, parallel parking (with bump outs for planting), bike lane, one westbound travel lane, striped median and turn pockets for vehicles, one eastbound travel lane, bike lane, diagonal parking (with bump outs for planting), and sidewalk.

#### **4.6 DESIGN CHARRETTE**

With all of this information given to the community, they were asked to participate in planning the future of Front Street. Large pieces of tracing paper were overlaid onto an existing conditions base map. The community broke into 4 smaller groups for about 35 to 45 minutes recording all of the information and ideas from each group onto the tracing paper. At the conclusion, of the charrette, each group had one member present their ideas to the community.



**Stantec**  
**CITY OF CRESCENT CITY**  
**DESIGN REPORT**

Community Workshop #1  
May 2005

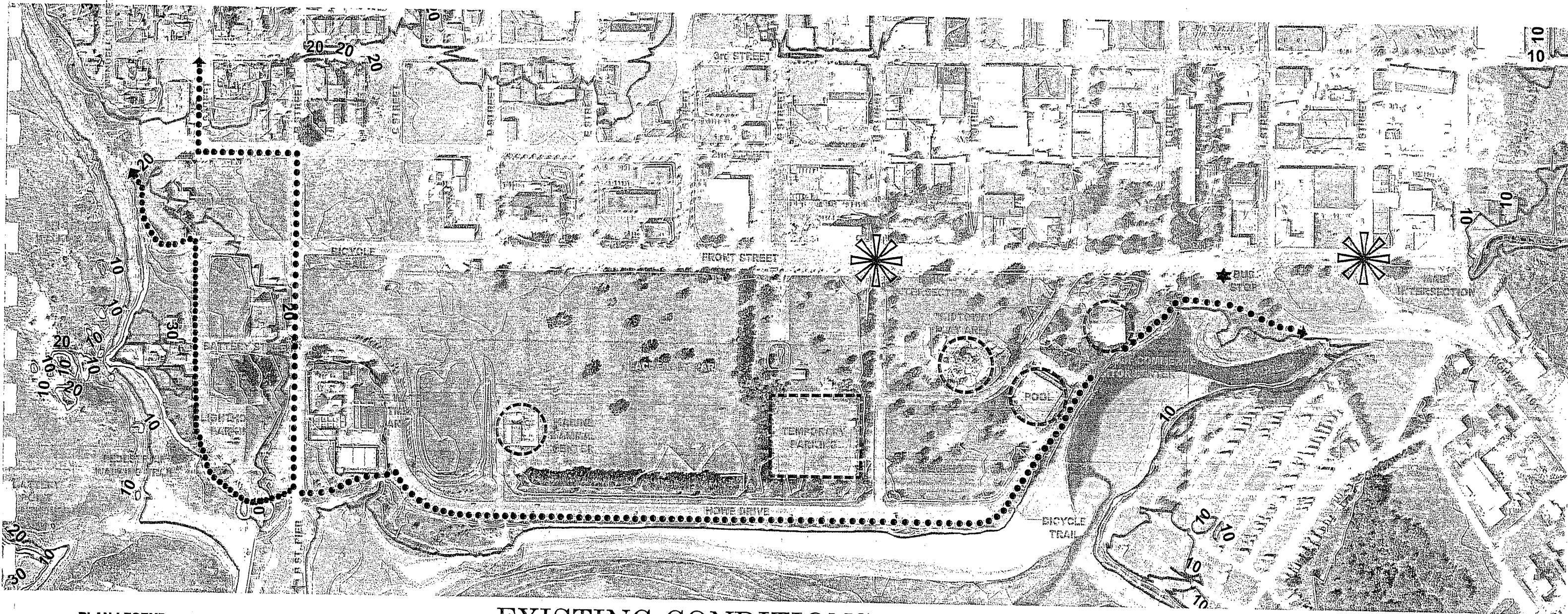
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#### **4.7 SUMMARY**







The outcome of the meeting was seen positively as two distinct alternatives were generated from the four groups. Stantec gathered all of the information and refined those alternatives for the subsequent community meeting.

# GOALS AND OBJECTIVES

- **EDUCATE AND DEMONSTRATE HISTORY**
  - Interpretive signage
  - Landmarks
  - Public art
  
- **CREATE SENSE OF PLACE/ IDENTITY**
  - Signage (Highway entry sign, interpretive signage...etc.)
  - Styled streetlights
  - Unified landscaping and streetscape elements/  
Planted street median and tree islands
  - Linkages from downtown to Front Street and  
Beachfront Park
  
- **CREATE SAFE AND PEDESTRIAN-FRIENDLY STREETS**
  - Expanded curb planters at intersections
  - 4-way stop/ traffic lights at main intersections
  - Narrower vehicular lanes
  
- **INTEGRATE AND CREATE SAFE AND EFFICIENT CIRCULATION SYSTEM**
  - Vehicular, pedestrian, and bike path
  - Interconnected bikeways and sidewalks
  
- **MORE PARKING SPACES FOR THE PARK, EVENTS, VISITOR CENTER/CHAMBER OF COMMERCE, AND DOWNTOWN.**
  - Diagonal parking along south side of Front Street
  - More Parking lots near/ in the Beachfront Park

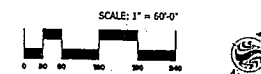


**PLAN LEGEND**

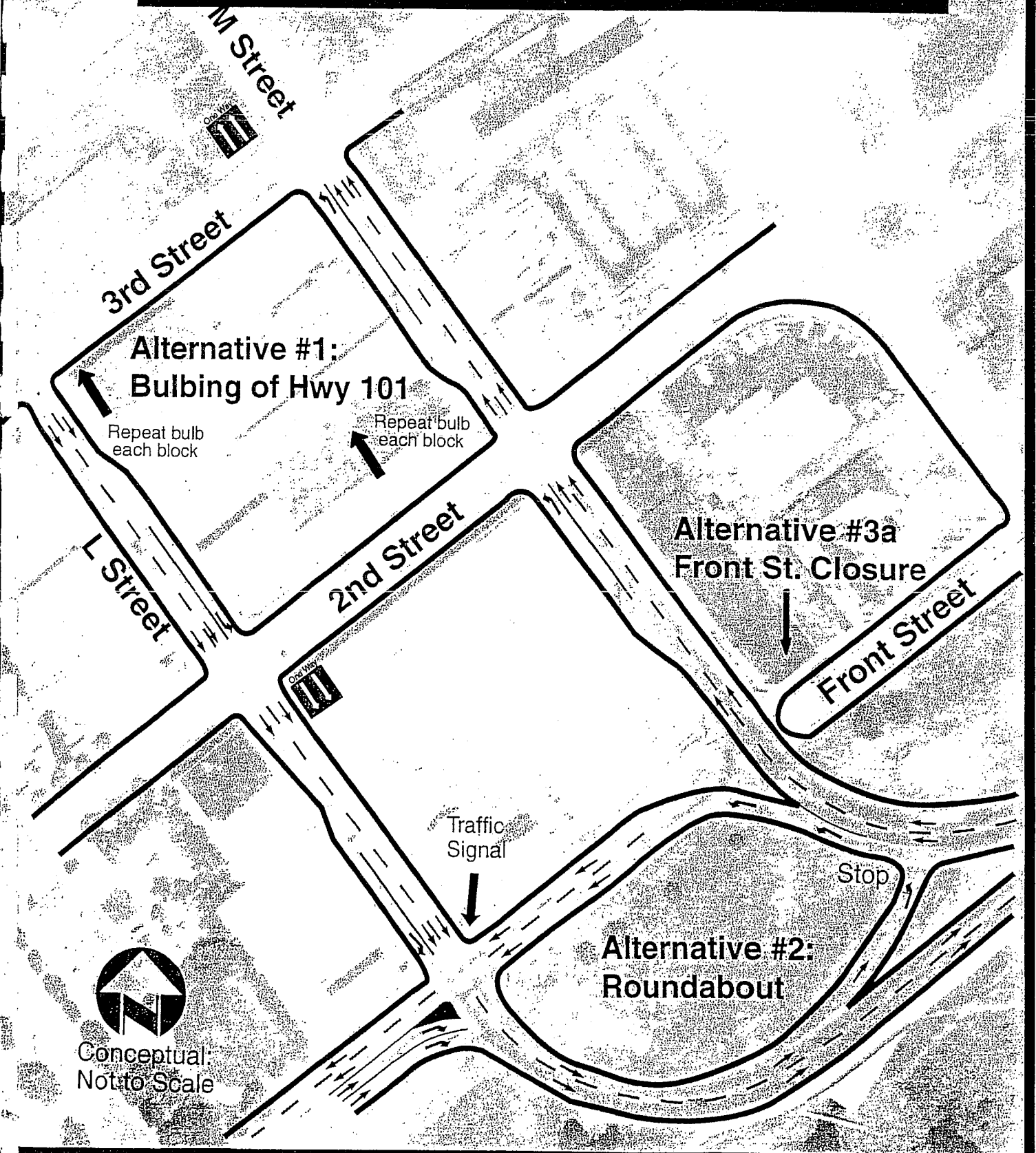
-  MAIN INTERSECTION
-  BUS STOP
-  BICYCLE TRAIL
-  PEDESTRIAN WALKING TRAIL
-  10' CONTOUR INTERVAL
-  2' CONTOUR INTERVAL

**EXISTING CONDITIONS PLAN**  
CITY OF CRESCENT CITY, CALIFORNIA

MAY 26, 2005



**Figure 3-3a**  
Proposed Highway 101 Improvements  
Alternatives 1, 2, and 3a



**Alternative #1:  
Bulbing of Hwy 101**

Repeat bulb  
each block

Repeat bulb  
each block

**Alternative #3a  
Front St. Closure**

**Alternative #2:  
Roundabout**

Traffic  
Signal

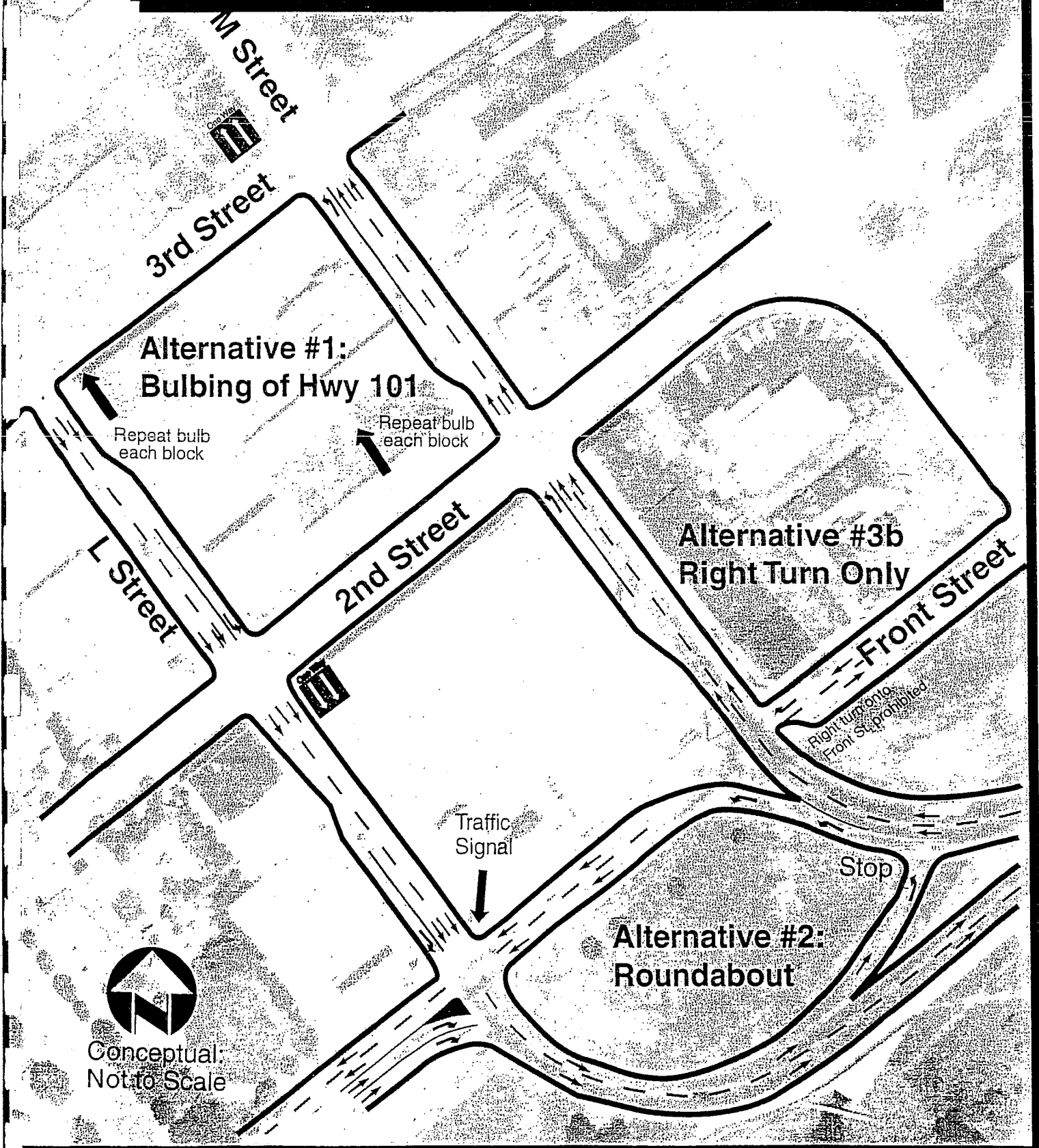
Stop

Conceptual  
Not to Scale



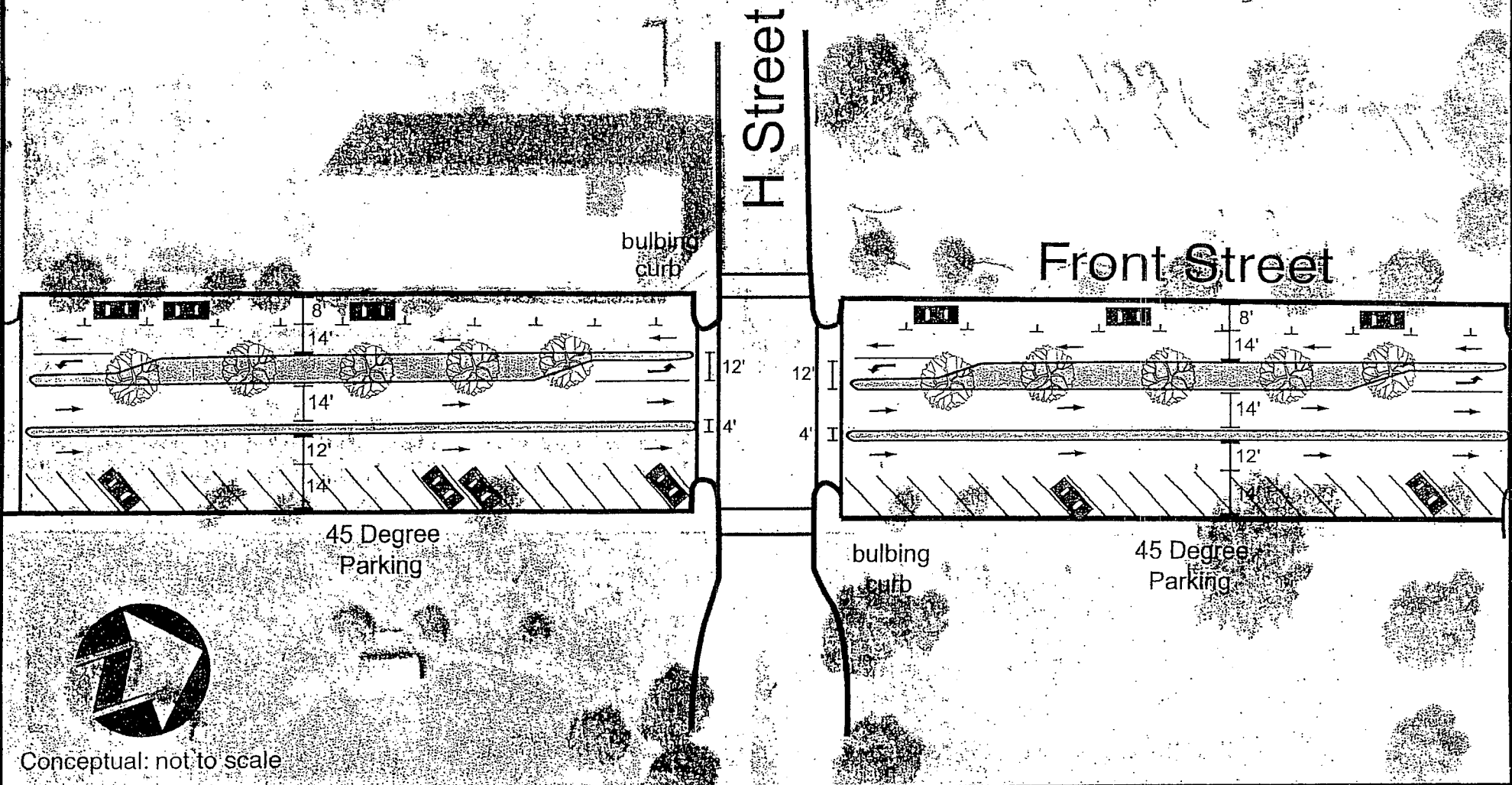
# Figure 3-3b

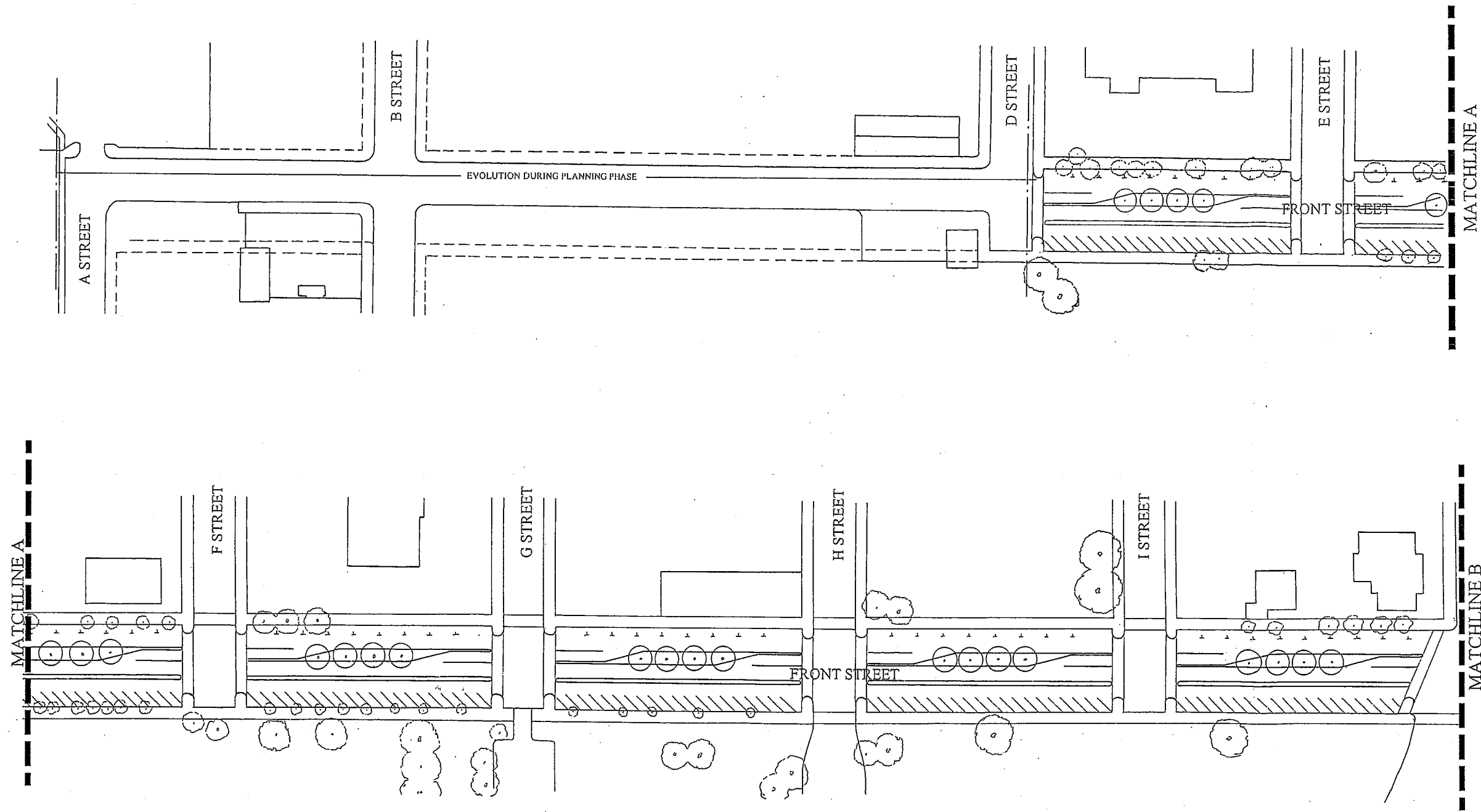
Proposed Highway 101 Improvements  
Alternatives 1, 2, and 3b



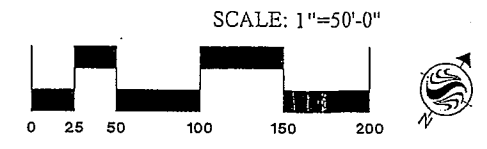
# Figure 3-4

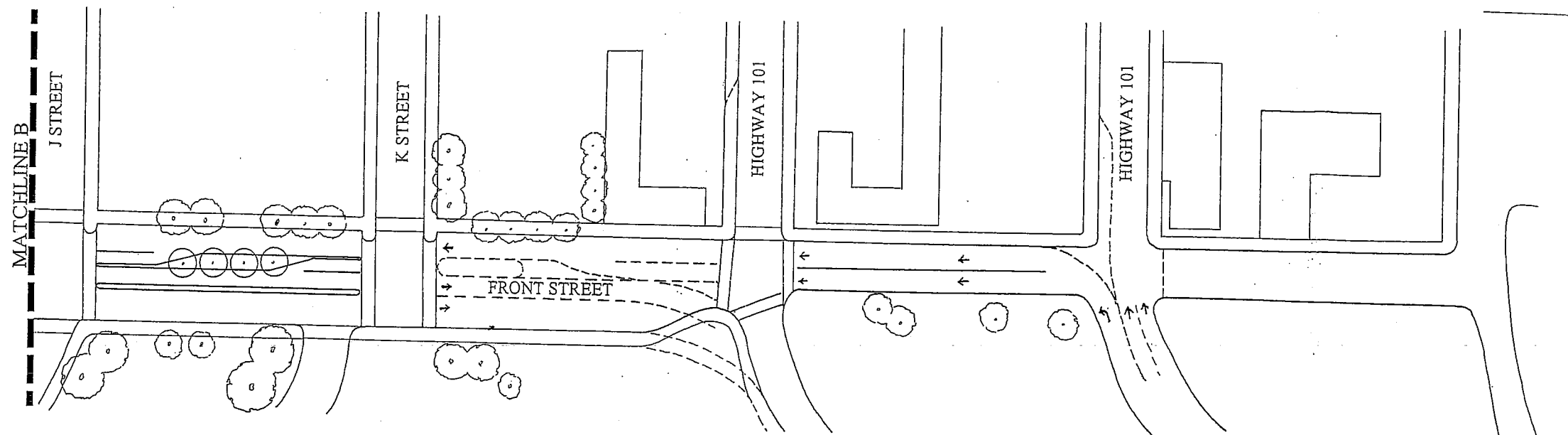
## Proposed Front Street Improvements



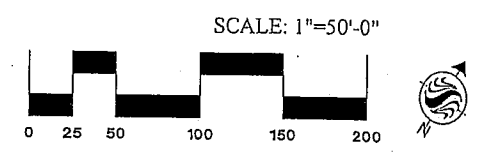


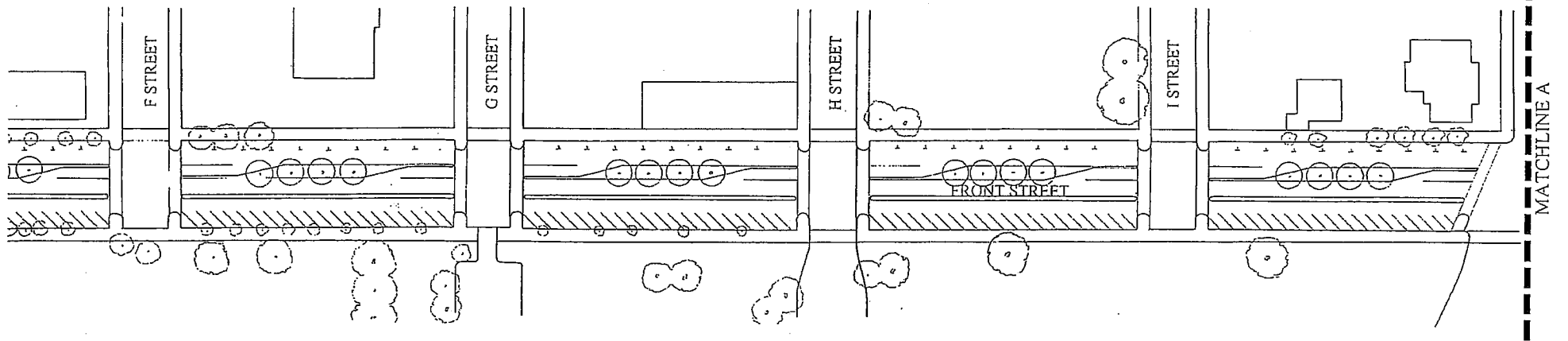
GENERAL PLAN  
 PROPOSED FRONT STREET  
 IMPROVEMENTS



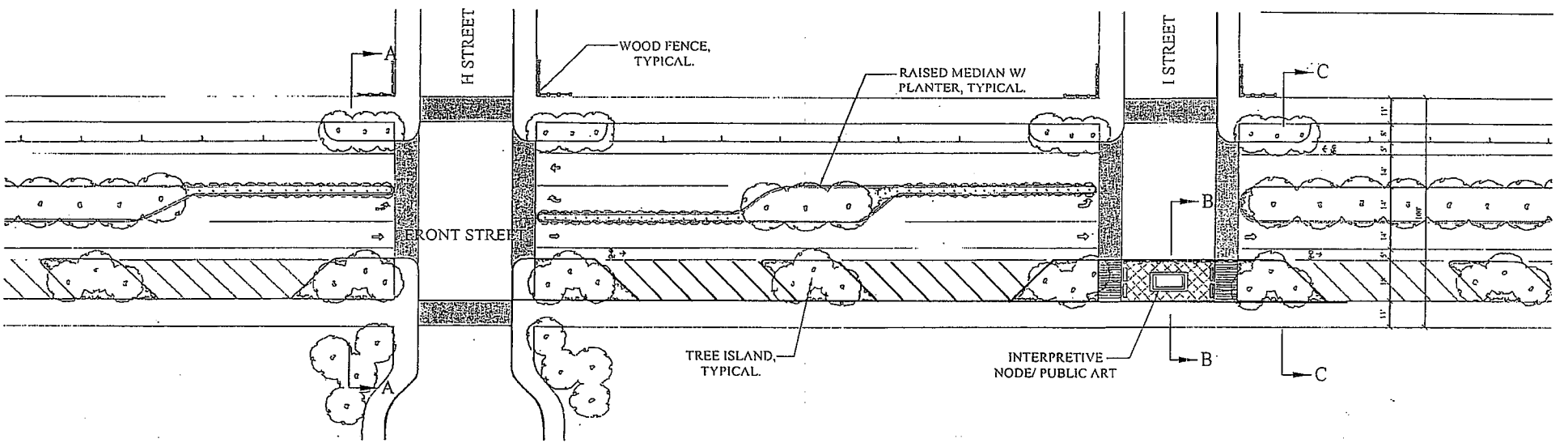


GENERAL PLAN  
PROPOSED FRONT STREET  
IMPROVEMENTS

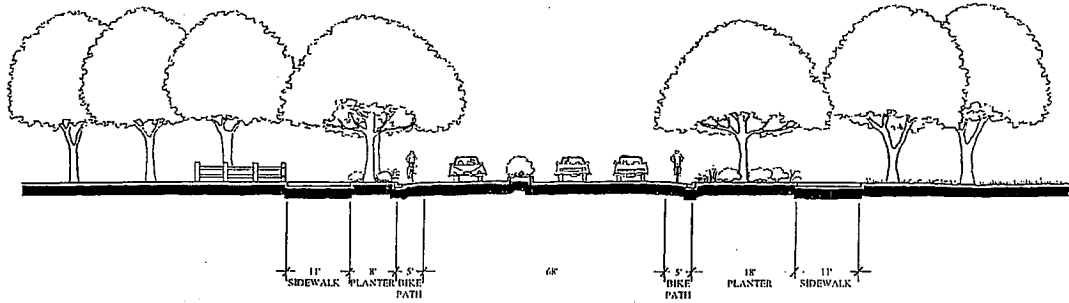




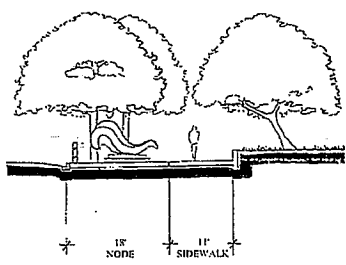
**FRONT STREET GENERAL PLAN**  
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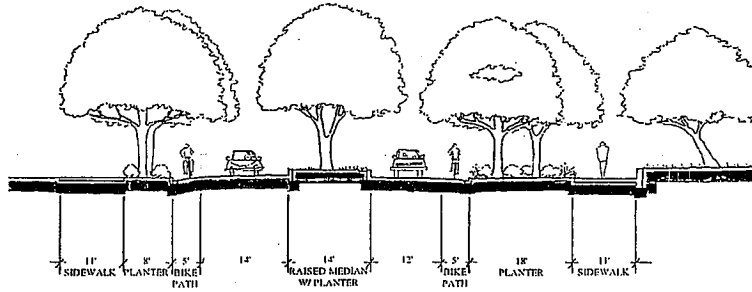
**PLAN (ALTERNATIVE #1)**  
SCALE: 1"=20'-0"



**SECTION A-A**  
SCALE: 1"=10'-0"



**SECTION B-B**  
SCALE: 1"=10'-0"



**SECTION C-C**  
SCALE: 1"=10'-0"

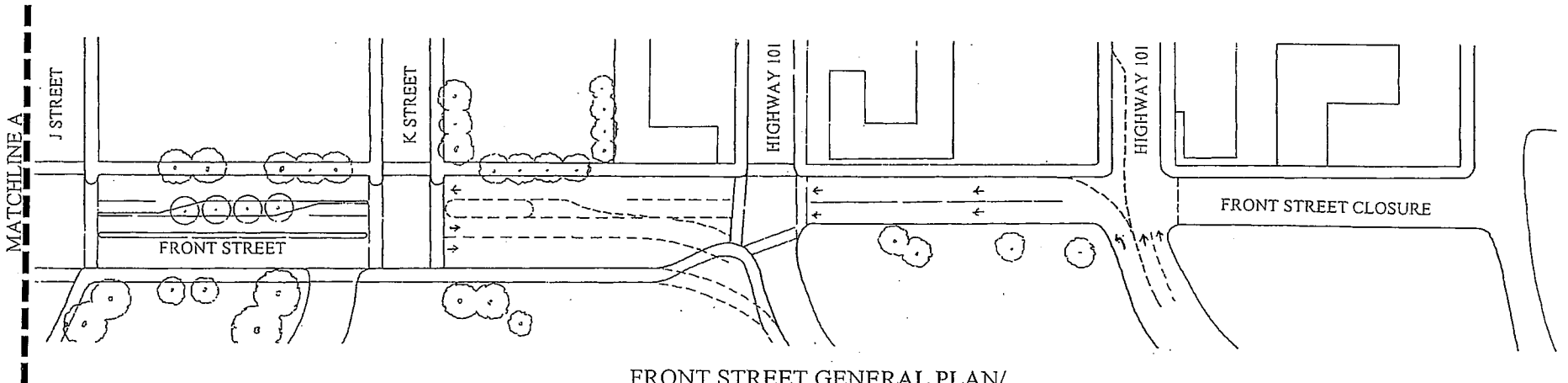


Stantec Consulting Inc.  
2590 Venture Oaks Way  
Sacramento, CA  
95833  
Tel. 916.569.2500  
Fax. 916.921.9274  
www.stantec.com

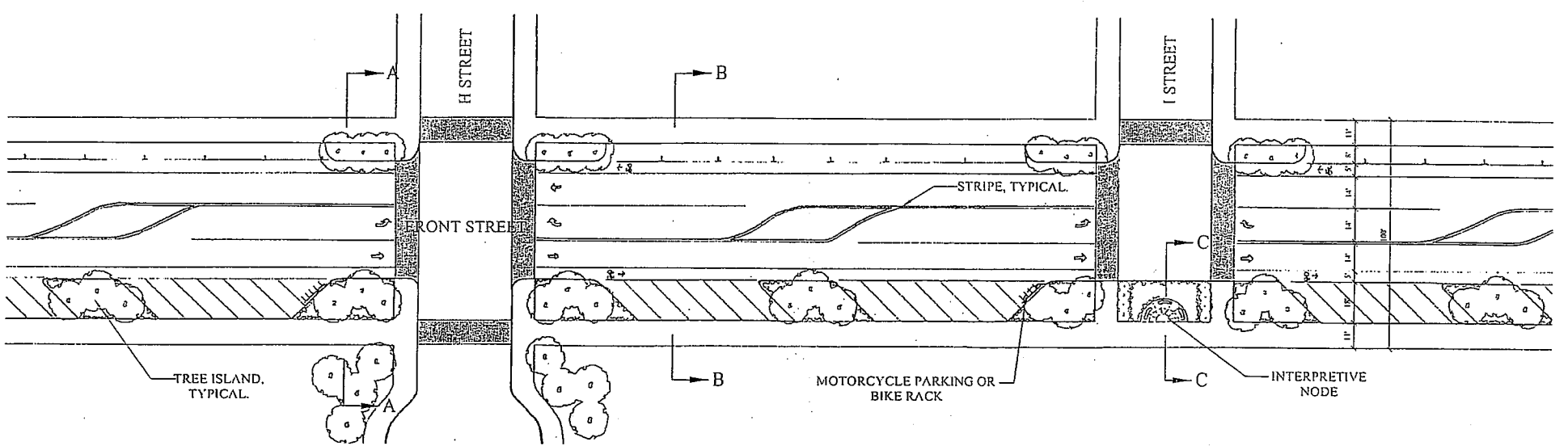
Stantec

**FRONT STREET DESIGN SCHEMATIC PLAN  
ALTERNATIVE #1**

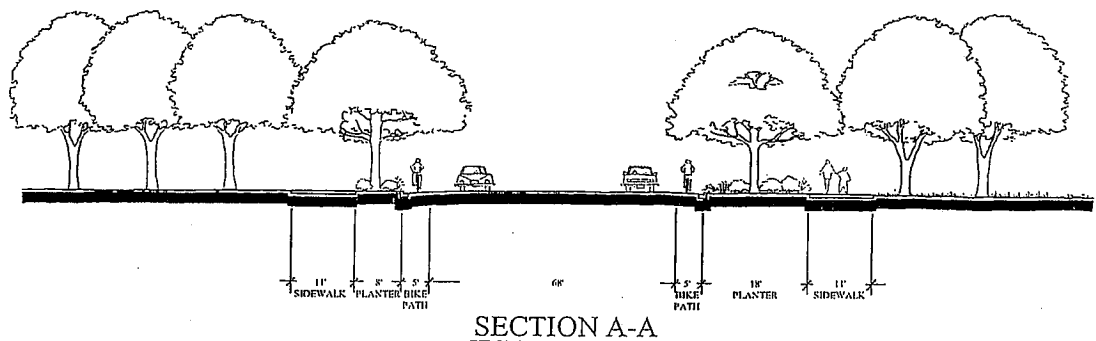
Client/Project: CUSD  
CITY OF CRESCENT CITY  
Figure No.: 1.0  
Date: 05/21/2009  
Project Number: 15430315



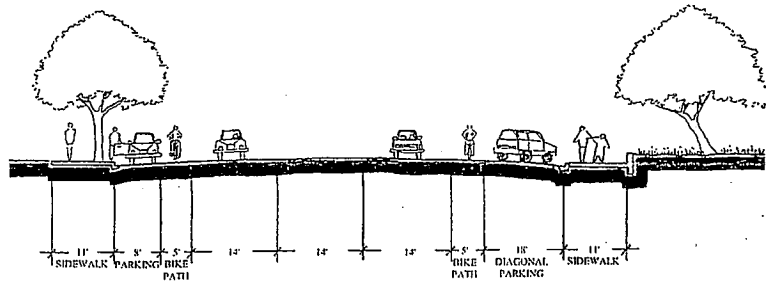
FRONT STREET GENERAL PLAN/  
 HIGHWAY 101 IMPROVEMENTS ALTERNATIVE #1  
 SCALE: 1"=40'-0"



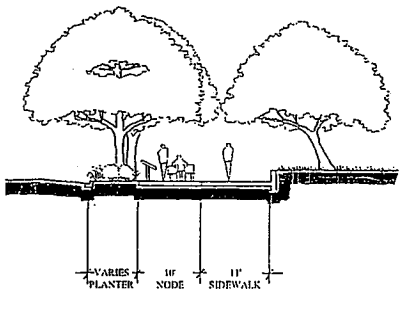
PLAN (ALTERNATIVE #2)  
 SCALE: 1"=20'-0"



SECTION A-A  
 SCALE: 1"=10'-0"



SECTION B-B  
 SCALE: 1"=10'-0"



SECTION C-C  
 SCALE: 1"=10'-0"

## **5.0 Community Workshop # 2**

---

The second community workshop was held at the County Fairgrounds. Ironically, at the conclusion of the meeting an earthquake was felt and the subsequent Tsunami warning was triggered.

### **5.1 INTRODUCTION**

The second community workshop had a similar turnout as the first, however there were many new faces in the crowd. The format for this meeting was somewhat different than the first workshop in that the format was altered to generate input from members of the community that are not as vocal.

Similar to the first workshop, an overview of the goals and objectives were explained as well as the activities that took place in the first workshop. The design charrette tracings generated from the first meeting were pinned up so those who were unable to participate in the first community meeting had an idea of the outcome.

The synthesized plans generated from the first workshop were presented and the community commented on their likes and dislikes of the plans. A consensus was reached by the close of the meeting.

### **5.2 ALTERNATIVES ONE AND TWO**

The two alternatives generated from the first community meeting (see figures 5.2A through 5.2E) have some similarities.

One of the strongest attributes of Alternative one is the idea of a roundabout at the terminus of Front Street where the connection to A Street has been eliminated. Most of the community felt strongly about making the connection back to Pebble Beach Drive. In addition, a modified roundabout at Highway 101 was a key element of the plan. The alternative one typical street section from north to south is; sidewalk, parallel parking (with bump outs for planting), bike lane, one westbound travel lane, raised median with tree planting and turn pockets for vehicles, one eastbound travel lane, bike lane, diagonal parking (with bump outs for planting), and sidewalk.

Enhanced paving would be at key intersections as noted on the plan and the addition of a four way and three way stops have been implemented at H Street and D Streets respectively.

Improved signage at key locations is also shown in plan view and sections of the roundabout.

The bus stop has been centrally located to alleviate safety concerns and accommodate rider ship.

**Stantec**  
**CITY OF CRESCENT CITY**  
**DESIGN REPORT**  
**FRONT STREET RECONSTRUCTION**

Community Workshop # 2  
May 2005

---

Alternative two is much less aggressive. Many members of the community wanted to leave Front Street wide and not clutter the center of the street with medians. The connection to A Street was very important but the some members liked the idea of sweeping turns instead of a roundabout. The alternative two typical street section from north to south is; sidewalk, parallel parking (with bump outs for planting), bike lane, one westbound travel lane, striped median with turn pockets for vehicles, one eastbound travel lane, bike lane, diagonal parking (with bump outs for planting), and sidewalk.

Enhanced paving would be at key intersections as noted on the plan and the addition of a four way and three way stops have been implemented at H Street and D Streets respectively.

Improved signage at key locations is also shown in plan view and sections of the roundabout.

The bus stop has been centrally located to alleviate safety concerns and accommodate rider ship.

### **5.3 QUESTIONNAIRE**

To generate input for those in the community who are shy or less likely to voice their opinion, a short questionnaire was developed. The questionnaire asked: What are the top three improvements you would like to see along Front Street? Out of 23 surveys received, the top nine results are listed below:

- |   |                       |
|---|-----------------------|
| 1. Add bump outs and landscaping  | 13                    |
| 2. No medians   | 6                     |
| 3. Add diagonal parking   | 6                     |
| 4. Return access at Highway 101   | 6                     |
| 5. No stop signs  | 5                     |
| 6. Widen west end   | 4                     |
| 7. Roundabout at B Street   | 4                     |
| 8. Repave road  | 3                     |
| 9. Improve signage and identity, add bike lane, improve pedestrian circulation, add stop signs, improve entrance from Highway 101, do not add extra parking, add medians, no additional parking in the park | All tied with 2 votes |



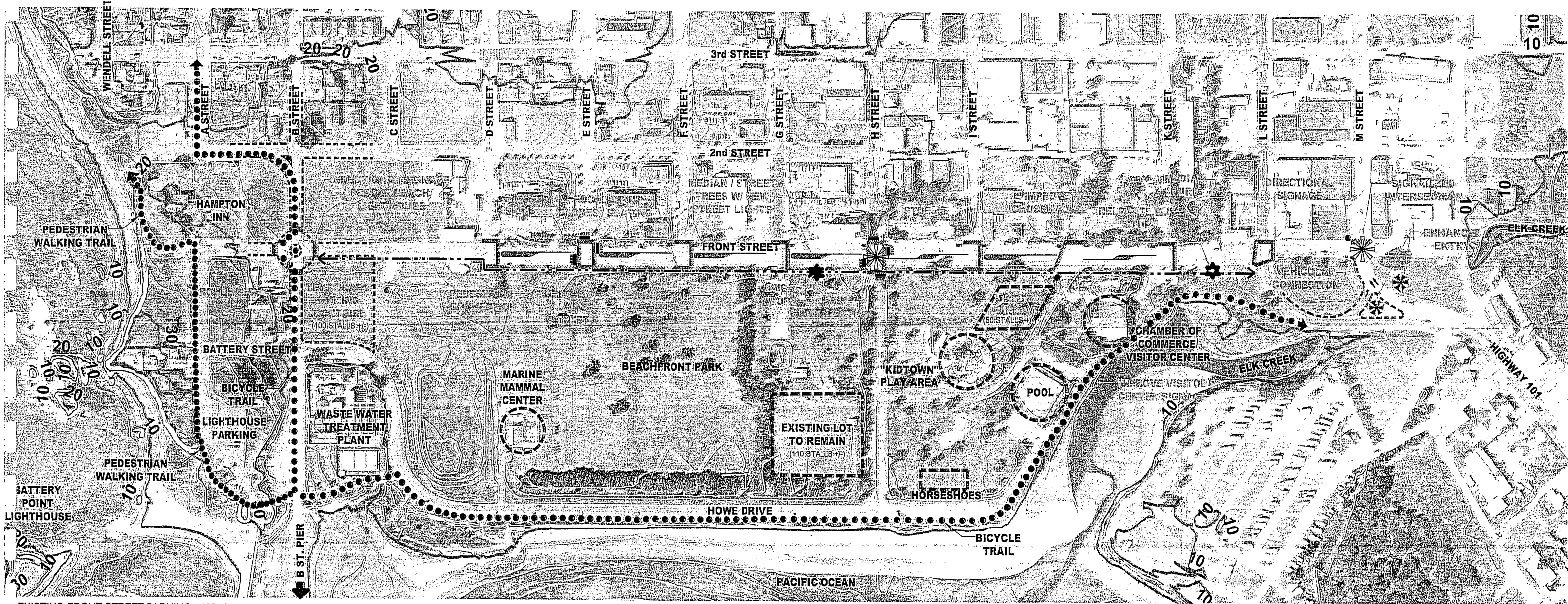
**Stantec**  
**CITY OF CRESCENT CITY**  
**DESIGN REPORT**  
**FRONT STREET RECONSTRUCTION**

Community Workshop # 2  
May 2005

---

**5.4 SUMMARY**

The community workshop # 2 was seen as a success as consensus was reached prior to the Tsunami Warning going off.



EXISTING FRONT STREET PARKING= 165 +/-  
 PROPOSED FRONT STREET PARKING= 167 +/-  
 OFF-SITE PARKING= 390 +/- EXISTING + 260 +/- PROPOSED= 650 +/- PROPOSED

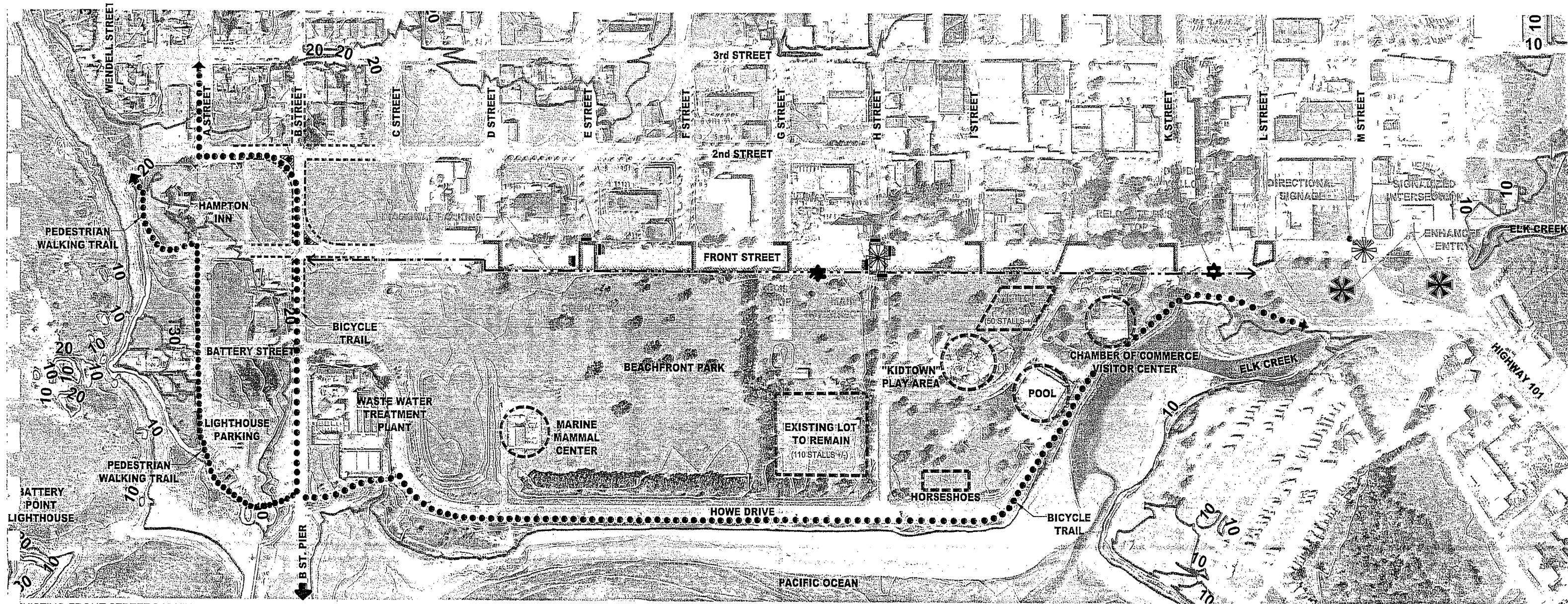
# SCHEMATIC PLAN ALTERNATIVE #1

CITY OF CRESCENT CITY, CALIFORNIA

JUNE 14, 2005

SCALE: 1" = 60'-0"





EXISTING FRONT STREET PARKING= 165 +/-  
 PROPOSED FRONT STREET PARKING= 215 +/-  
 OFF-SITE PARKING= 390 +/- EXISTING + 160 +/- PROPOSED= 550 +/- PROPOSED

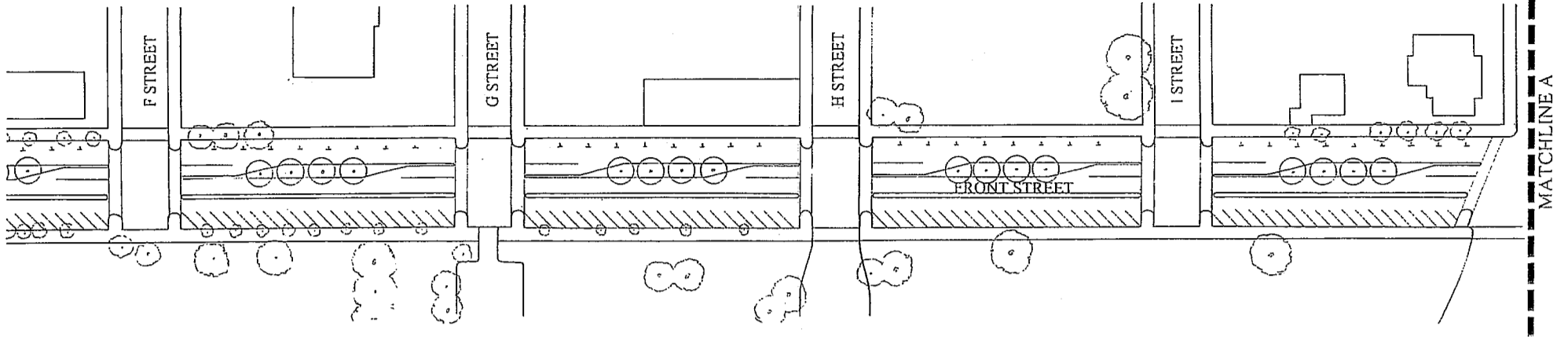
# SCHEMATIC PLAN ALTERNATIVE #2

CITY OF CRESCENT CITY, CALIFORNIA

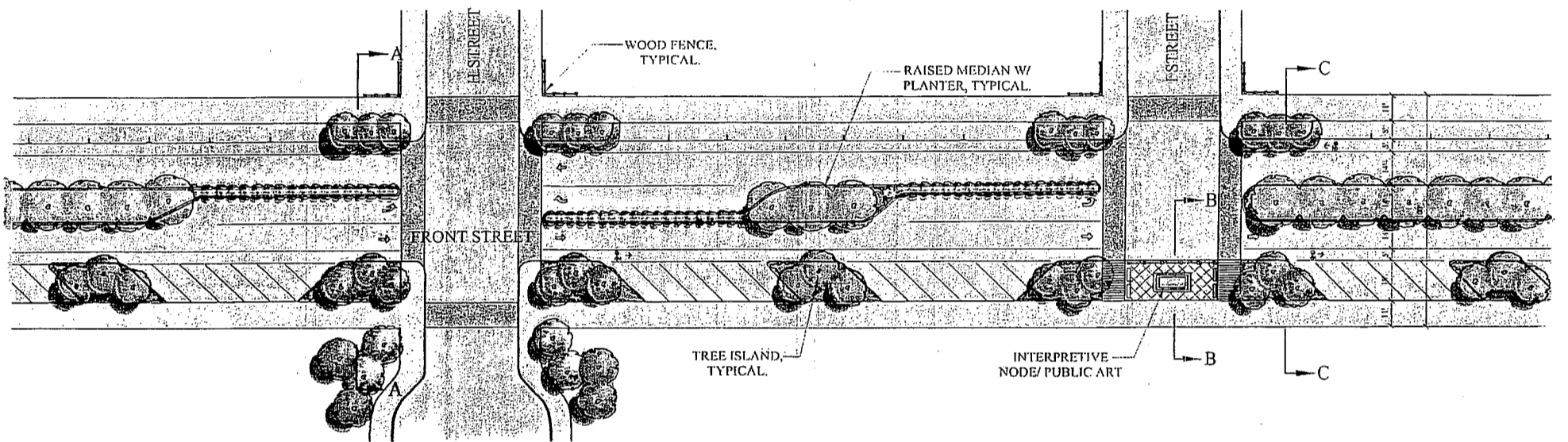
JUNE 14, 2006

SCALE: 1" = 60'-0"

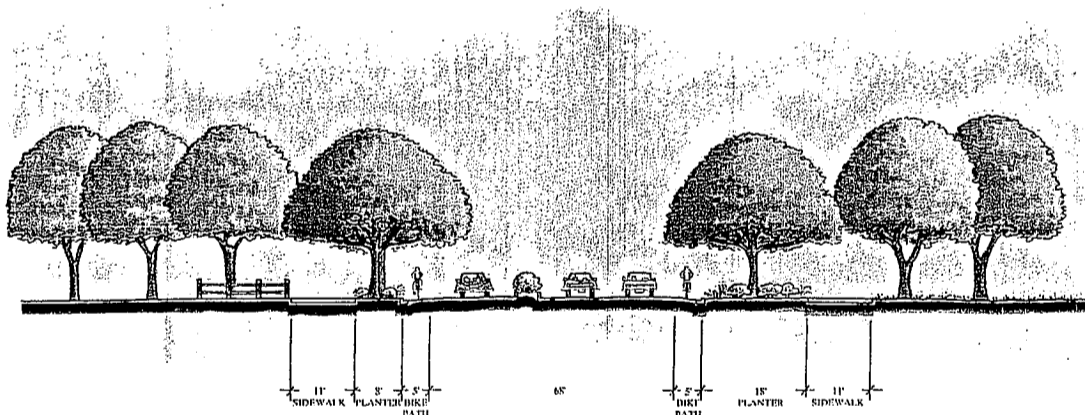




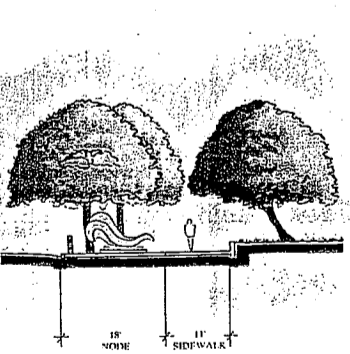
FRONT STREET GENERAL PLAN  
SCALE: 1"=40'-0"



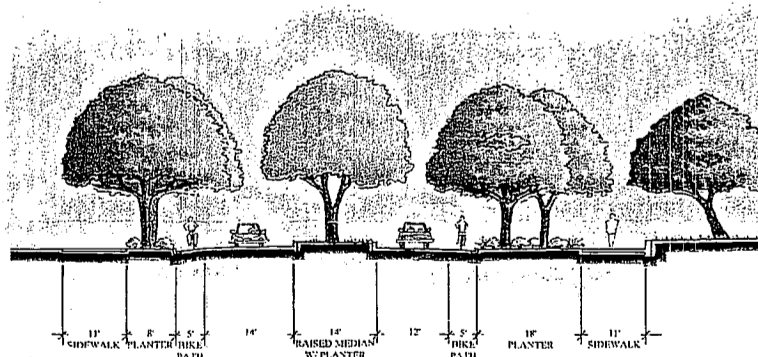
PLAN (ALTERNATIVE #1)  
SCALE: 1"=20'-0"



SECTION A-A  
SCALE: 1"=10'-0"



SECTION B-B  
SCALE: 1"=10'-0"



SECTION C-C  
SCALE: 1"=10'-0"



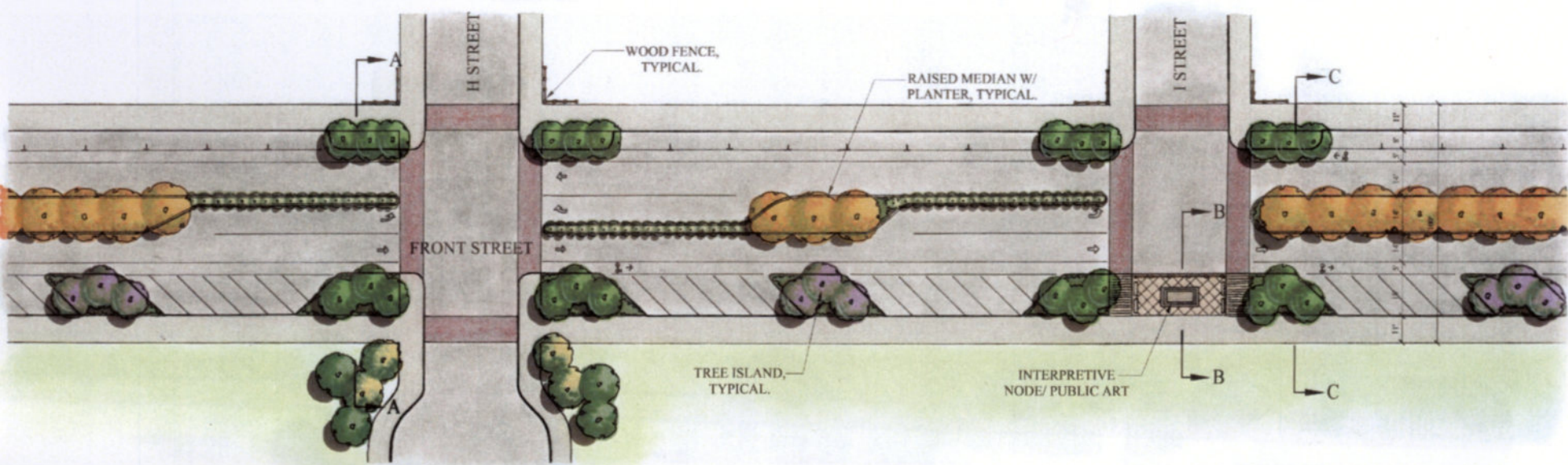
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2500 Venture Oaks Way  
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95821  
Tel: 916.594.2500  
Fax: 916.921.8274  
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# FRONT STREET DESIGN SCHEMATIC PLAN ALTERNATIVE #1

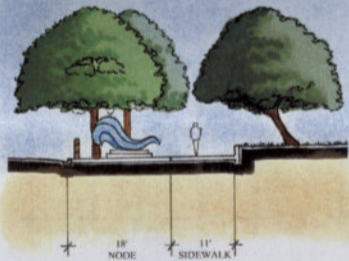
Client: City of  
City of  
Project No. 4.0

FRONT STREET SCHEMATIC PLAN  
ALTERNATIVE #1  
Date: 04/20/2015  
Project Number: 04000001

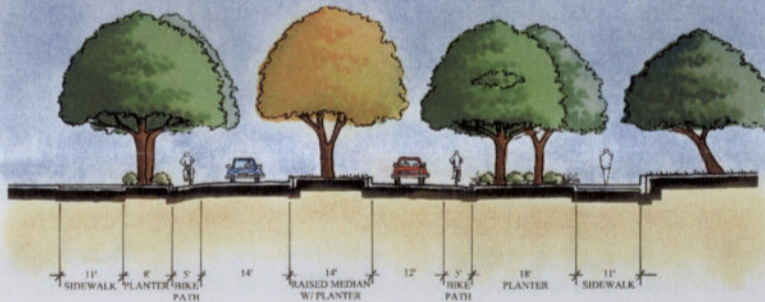


**PLAN (ALTERNATIVE #1)**  
 SCALE: 1"=20'-0"

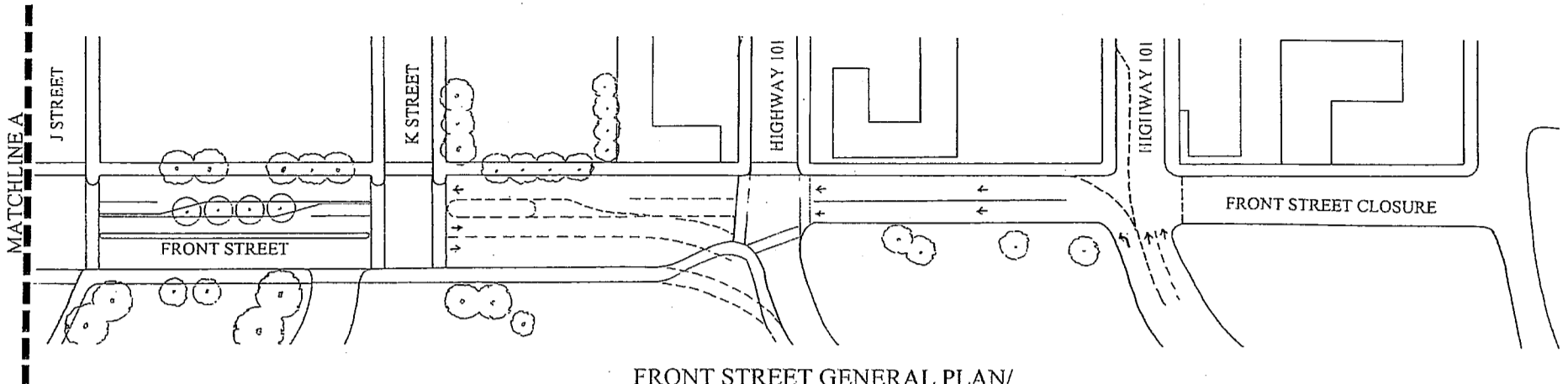




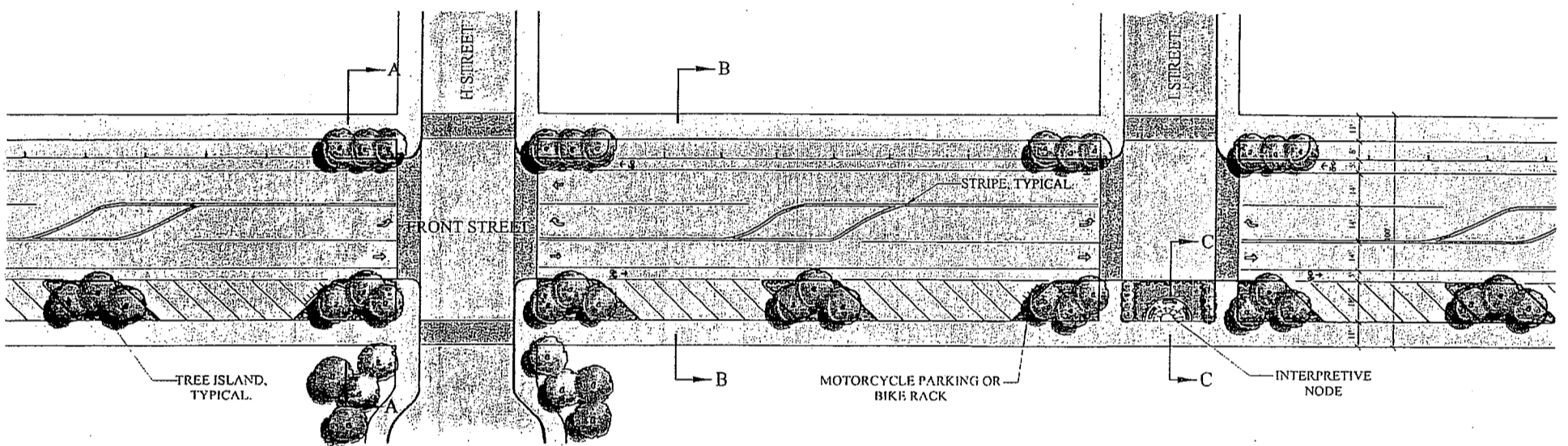
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SCALE: 1"=10'-0"



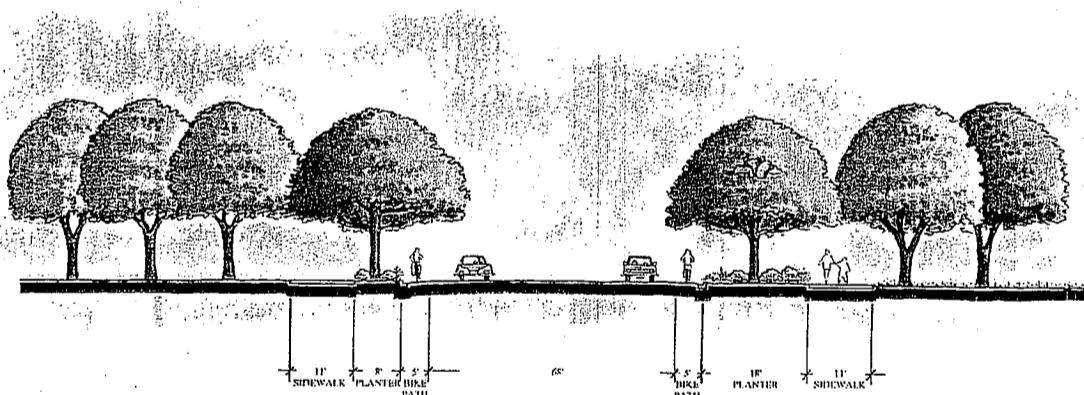
**SECTION C-C**  
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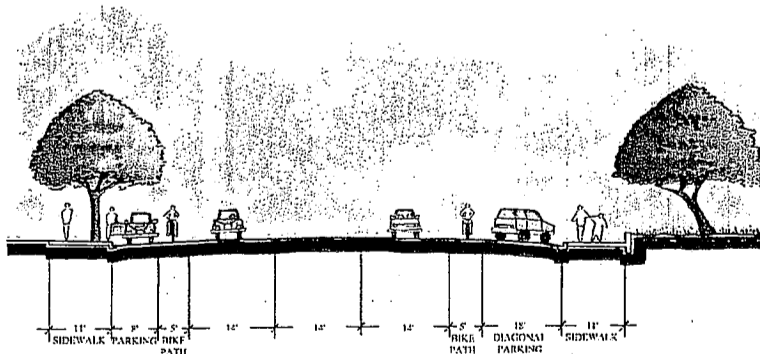
FRONT STREET GENERAL PLAN/  
 HIGHWAY 101 IMPROVEMENTS ALTERNATIVE #1  
 SCALE: 1"=40'-0"



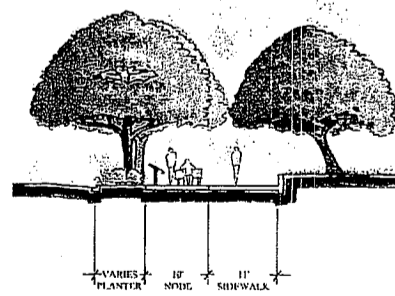
PLAN (ALTERNATIVE #2)  
 SCALE: 1"=20'-0"



SECTION A-A  
 SCALE: 1"=10'-0"



SECTION B-B  
 SCALE: 1"=10'-0"



SECTION C-C  
 SCALE: 1"=10'-0"

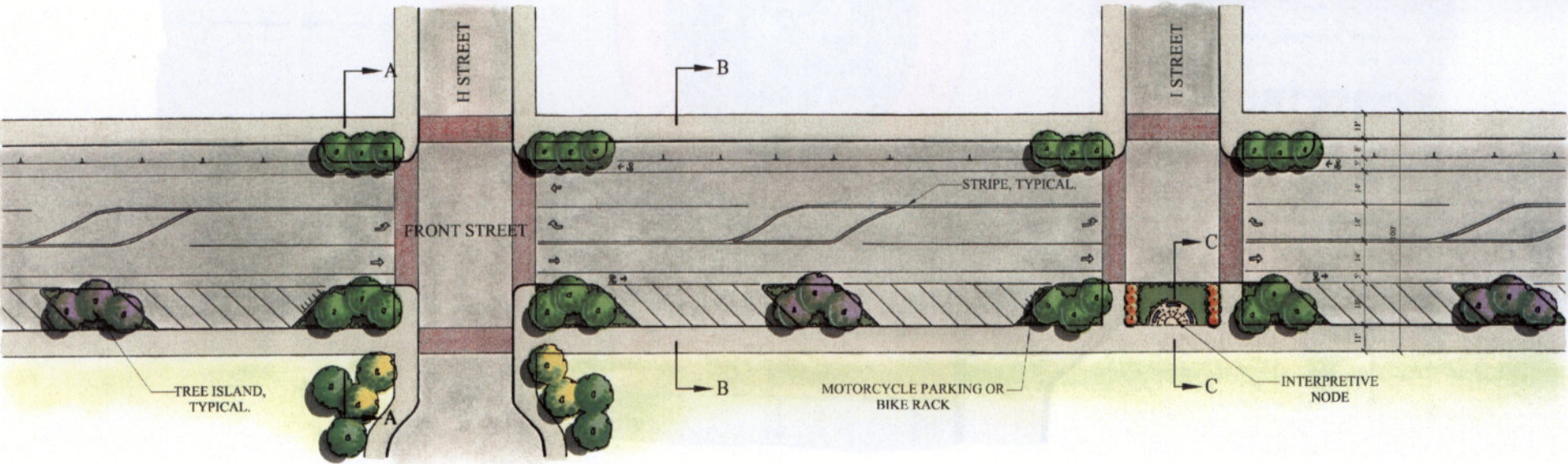


Stantec

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 2500 Venture Oaks Way  
 Sacramento, CA  
 95825  
 Tel: 916.989.2500  
 Fax: 916.901.8274  
 web: stantec.com

# FRONT STREET DESIGN SCHEMATIC PLAN ALTERNATIVE #2

Client: CITY OF SACRAMENTO, CA  
 Project No: 2.0  
 Project Name: FRONT STREET SCHEMATIC PLAN  
 ALTERNATIVE #2  
 Date: 06/20/2015  
 Project Number: 14200015

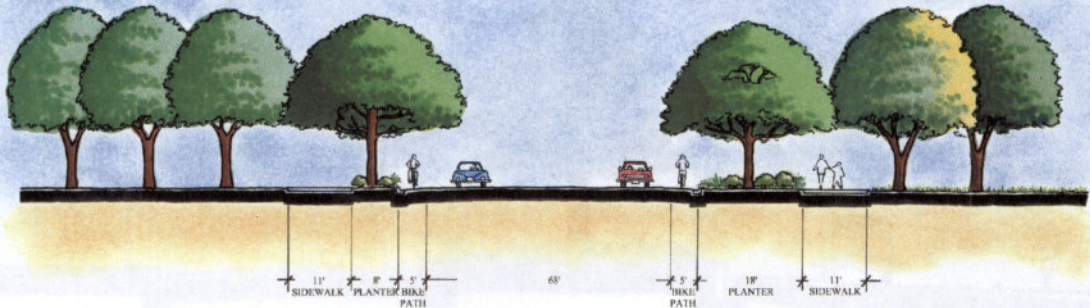


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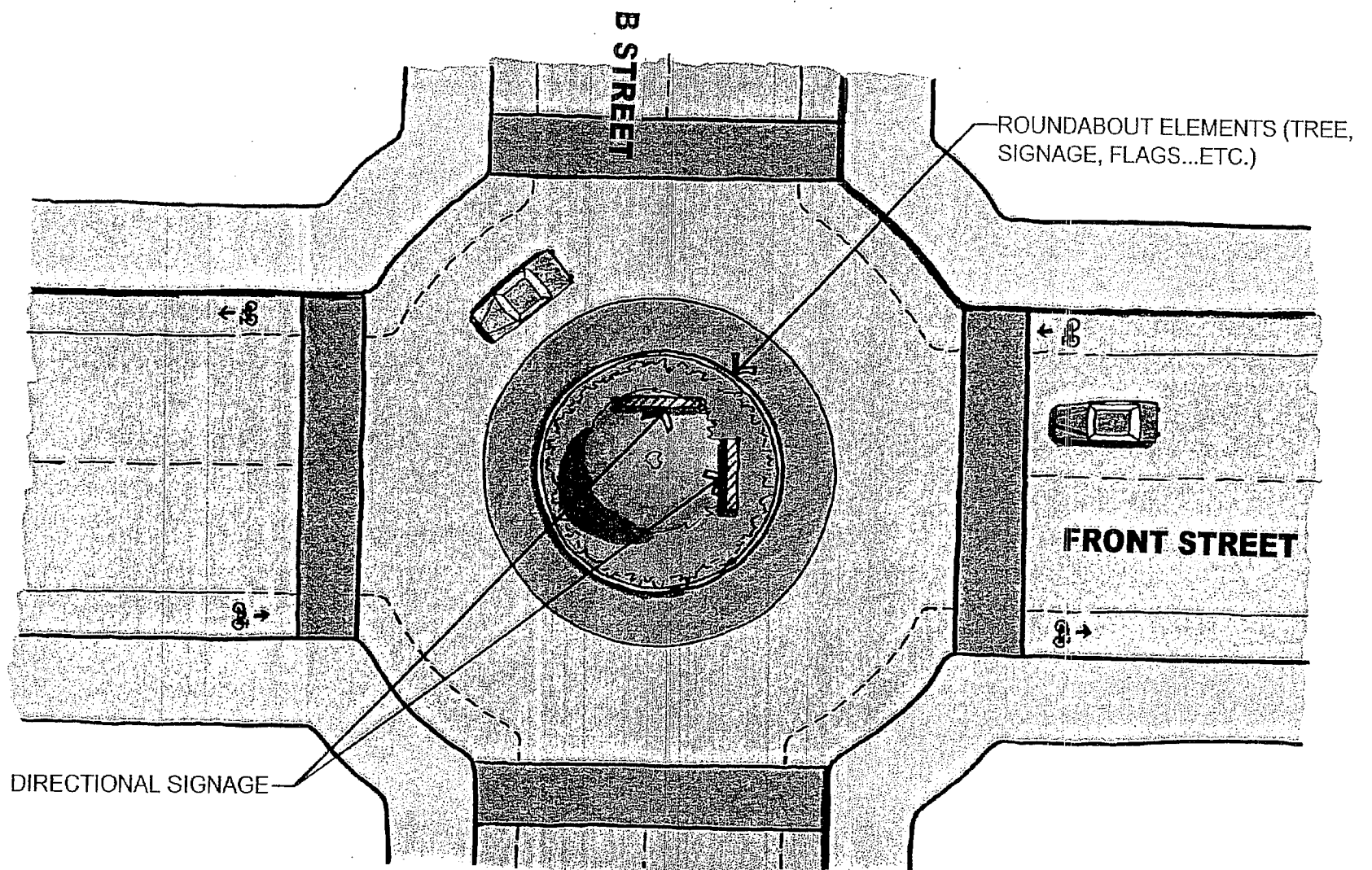




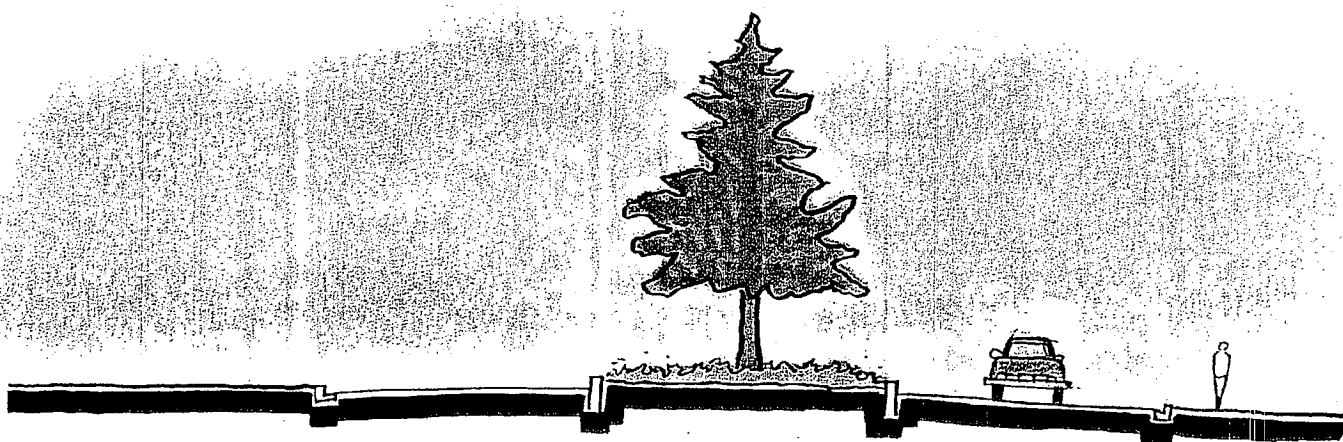


## SECTION A-A

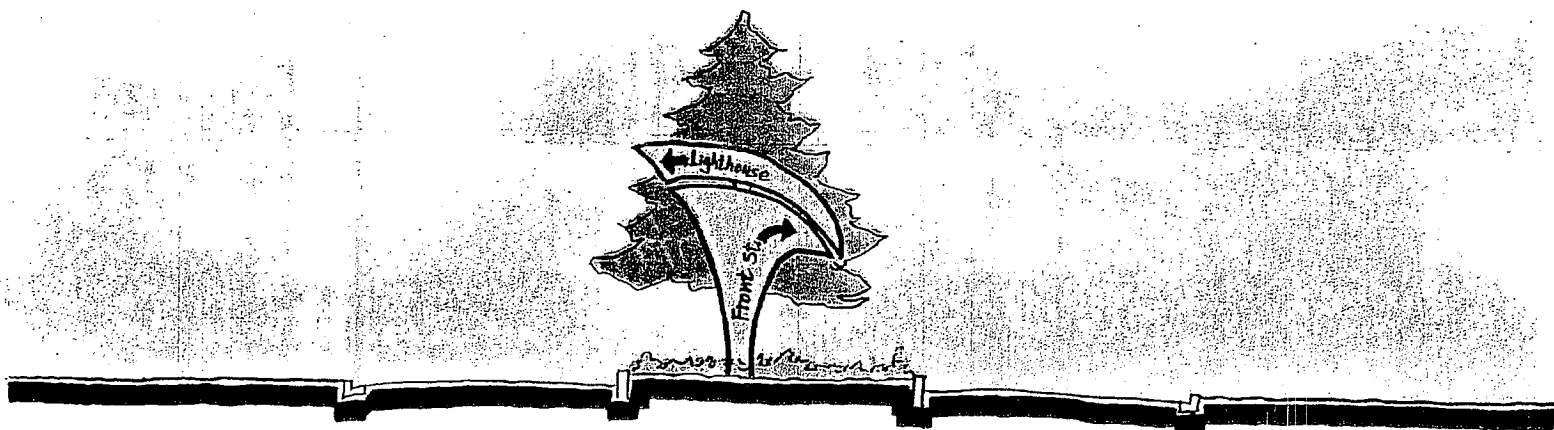
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**ROUNDBABOUT PLAN**  
NOT TO SCALE

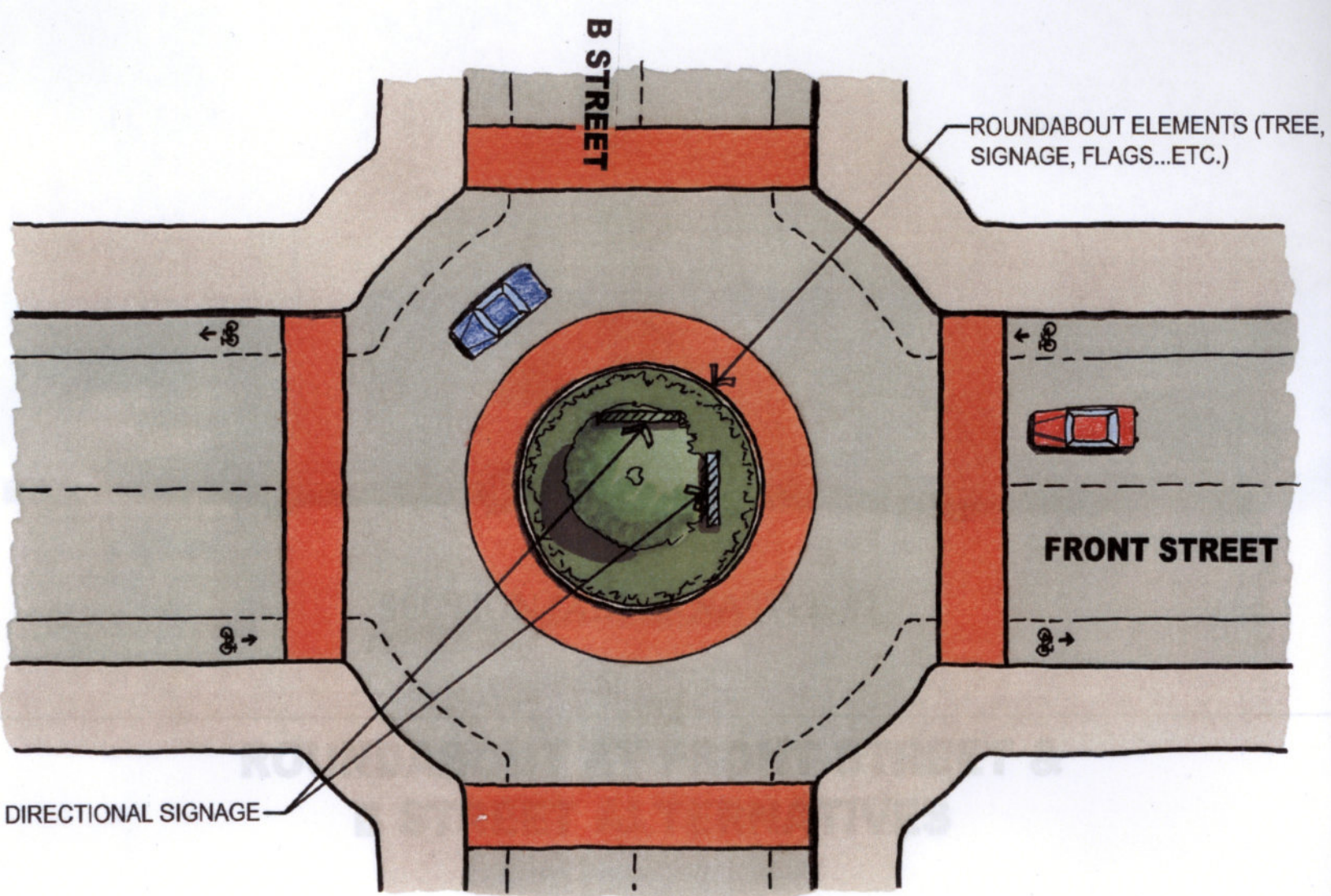


**SECTION (ALTERNATIVE #1)**  
NOT TO SCALE



**SECTION (ALTERNATIVE #2)**  
NOT TO SCALE

**ROUNDBABOUT AT FRONT STREET &  
B STREET ALTERNATIVES**



**ROUNDBABOUT PLAN**



SECTION (ALTERNATIVE #1)  
NOT TO SCALE



SECTION (ALTERNATIVE #2)  
NOT TO SCALE

## **6.0 Preferred Alternative/Opinion of Probable Construction Costs**

---

The preferred plan takes into account the ideas and opinions of the community and consensus reached at the second community workshop.

### **6.1 PREFERRED PLAN**

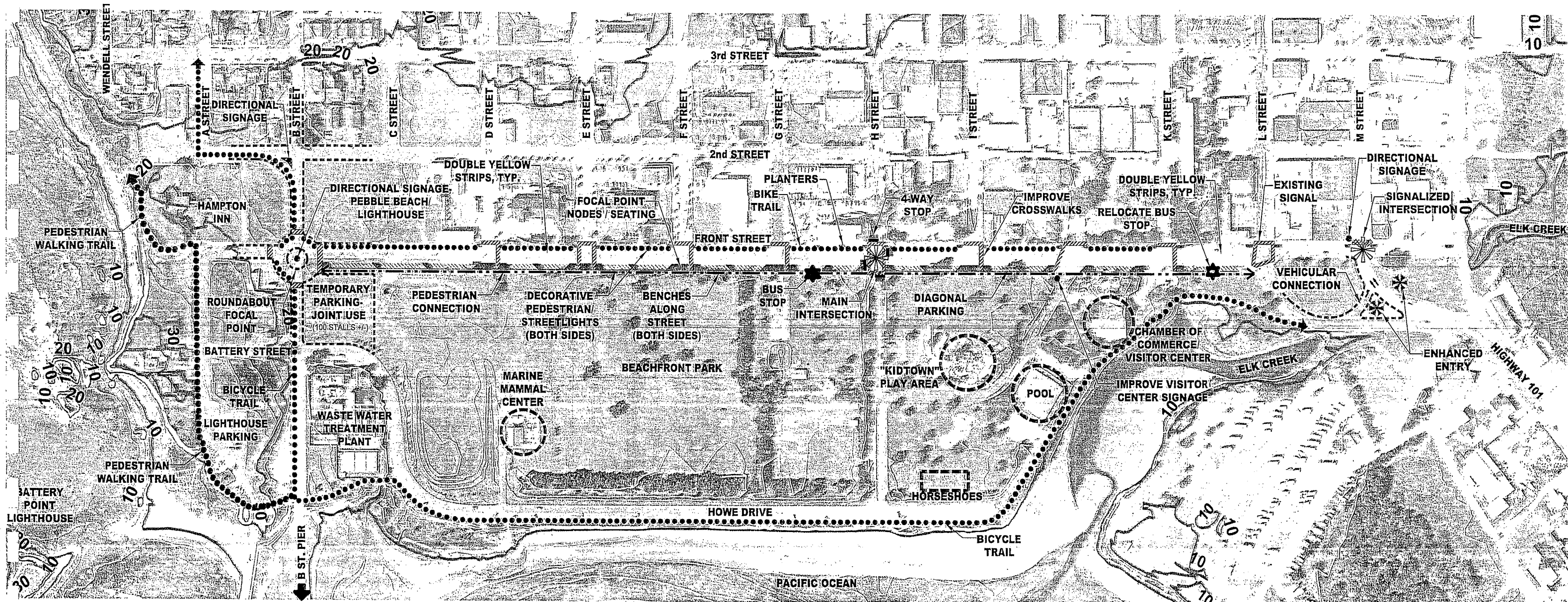
The preferred plan incorporates some of the top elements from the questionnaire and the ideas generated in the community workshops. The roundabout has been retained at the terminus of Front Street where the connection to A Street has been eliminated. Front Street is widened from B Street to D Street. Bump outs and the addition of landscaping have been included in the plan. In addition, the modified roundabout at Highway 101 has been retained along with upgraded entry signage. The preferred plan does not include the bicycle lane on the south side of Front Street. The typical street section from north to south is; sidewalk, parallel parking (with bump outs for planting), bike lane, one westbound travel lane, striped median and turn pockets for vehicles, one eastbound travel lane, diagonal parking (with bump outs for planting), and sidewalk.

Enhanced paving has been included at key intersections.

The bus stop has been centrally located to alleviate safety concerns and accommodate rider ship.

### **6.2 OPINION OF PROBABLE CONSTRUCTION COSTS**

See the attached Opinion of Probable Construction Cost associated with the preferred plan.



EXISTING FRONT STREET PARKING= 165 +/-  
 PROPOSED FRONT STREET PARKING= 200 +/-  
 OFF-SITE PARKING= 390 +/- EXISTING + 100 +/- PROPOSED= 490 +/- PROPOSED

# PREFERRED PLAN

CITY OF CRESCENT CITY, CALIFORNIA





Stantec

29 Jun 2005

City of Sacramento  
Front Street Reconstruction  
1843 00315

Opinion of Probable Construction Costs

Description	Quantity	Unit	Unit Price	Cost	Total
<b>Demolition</b>					<b>\$89,750</b>
Existing Sidewalk Trees Demo. on SE Side	1	l.s.	\$10,000.00	\$10,000	
AC Demo. for Planters & Sawcut	29,000	ft <sup>2</sup>	\$2.75	\$79,750	
<b>Grading &amp; Drainage</b>					<b>\$45,252</b>
Soil Preparation	24,720	ft <sup>2</sup>	\$0.35	\$8,652	
Import Soil (24")	1,830	cy	\$20.00	\$36,600	
<b>Irrigation</b>					<b>\$220,580</b>
Irrigation System	24,720	ft <sup>2</sup>	\$1.50	\$37,080	
Irrig. & Elec. Joint Trench (3' wide), Demo & Patch	7,340	lf	\$25.00	\$183,500	
<b>Planting</b>					<b>\$72,244</b>
Trees (24" Box)	142	each	\$225.00	\$31,950	
Shrubs/Groundcover (1 Gal.)	24,720	ft <sup>2</sup>	\$1.25	\$30,900	
Bark Mulch	24,720	ft <sup>2</sup>	\$0.88	\$9,394	
<b>Hardscape</b>					<b>\$1,231,005</b>
Striping	1	l.s.	\$15,000.00	\$15,000	
New Curb for Planters	3,510	l.f.	\$15.00	\$52,650	
Remove & Replace Corner	32	each	\$10,000.00	\$320,000	
Accessible Ramps (includes 2 ramps)					
Remove & Replace Accessible Ramps (single)	8	each	\$3,000.00	\$24,000	
Interpretive Node/ Benches/ Paving/ Signage	4	each	\$10,000.00	\$40,000	
Roundabout	1	l.s.	\$40,000.00	\$40,000	
Asphalt Concrete Overlay	227,180	ft <sup>2</sup>	\$2.25	\$511,155	
Stamped Asphalt Conc. Crosswalks	14,170	ft <sup>2</sup>	\$8.00	\$113,360	
Road Modification @ B & 2nd St.	1	l.s.	\$15,000.00	\$15,000	
Concrete Paving Infill @ Existing Sidewalk Treewells	1,040	ft <sup>2</sup>	\$4.50	\$4,680	
Visitor Parking across Chamber of Commerce	1	l.s.	\$75,000.00	\$75,000	
Sidewalk from D St. to B St.	3,360	ft <sup>2</sup>	\$6.00	\$20,160	
<b>Site Furnishings/ Miscellaneous</b>					<b>\$320,000</b>
Benches	40	each	\$1,200.00	\$48,000	
Trash Receptacle	10	each	\$800.00	\$8,000	
Signal	1	l.s.	\$125,000.00	\$125,000	
Directional Signage	4	each	\$10,000.00	\$40,000	



Stantec

29 Jun 2005

City of Sacramento  
Front Street Reconstruction  
1843 00315

Opinion of Probable Construction Costs

Description	Quantity	Unit	Unit Price	Cost	Total
Stop Signs	7	each	\$1,000.00	\$7,000	
Motorcycle/ Bike Parking	10	each	\$1,200.00	\$12,000	
Bus Stop Relocation	1	l.s.	\$10,000.00	\$10,000	
(2) Enhanced Entry Monument	1	l.s.	\$50,000.00	\$50,000	
Entry @ Hw 101 South/ Front St.	1	l.s.	\$20,000.00	\$20,000	
Turnaround Modification					
<b>Site Electrical</b>					<b>\$370,000</b>
Lighting	100	each	\$3,700.00	\$370,000	
<b>Maintenance</b>					<b>\$7,500</b>
90-day Maintenance Period	1	l.s.	\$7,500.00	\$7,500	
<b>Subtotal</b>					<b>\$2,356,331</b>
<b>20.0% Contingency</b>					<b>\$471,266</b>
<b>Grand Total</b>					<b>\$2,827,597</b>

Schematic Estimate     50% Estimate     90% Estimate     Final Estimate     Other - 35%

NOTE: IT IS RECOGNIZED THAT STANTEC HAS NO CONTROL OVER THE COSTS OF MATERIALS, EQUIPMENT, LABOR, OR THE CONTRACTOR'S METHOD OF DETERMINING BID PRICES. PRICES WILL VARY FROM ANY STATEMENT OF PROBABLE COSTS.





**Stantec**

2590 Venture Oaks Way  
Sacramento, CA 95833  
916.569.2500 Tel  
916.921.9274 Fax



**CITY OF CRESCENT CITY**  
**PROJECT PLANS FOR CONSTRUCTION ON**

**FRONT St.**  
 FROM SOUTH "A" ST. TO US 101 SOUTH

**"B" St.**  
 FROM BATTERY ST. / HOWE DR. TO 2nd ST.

**2nd St.**  
 FROM "B" ST. TO "A" ST.

**"A" St.**  
 FROM 2nd ST. TO 3rd ST.

**STAMPS WAY**  
 FROM FRONT ST. TO 105'± SOUTH OF FRONT ST.

**PLAY St.**  
 FROM FRONT ST. TO 142'± SOUTH OF FRONT ST.

SUPPLEMENTED BY STATE OF CALIFORNIA STANDARD PLANS AND SPECIFICATIONS 2010 EDITIONS

**UTILITY CONTACT INFORMATION**

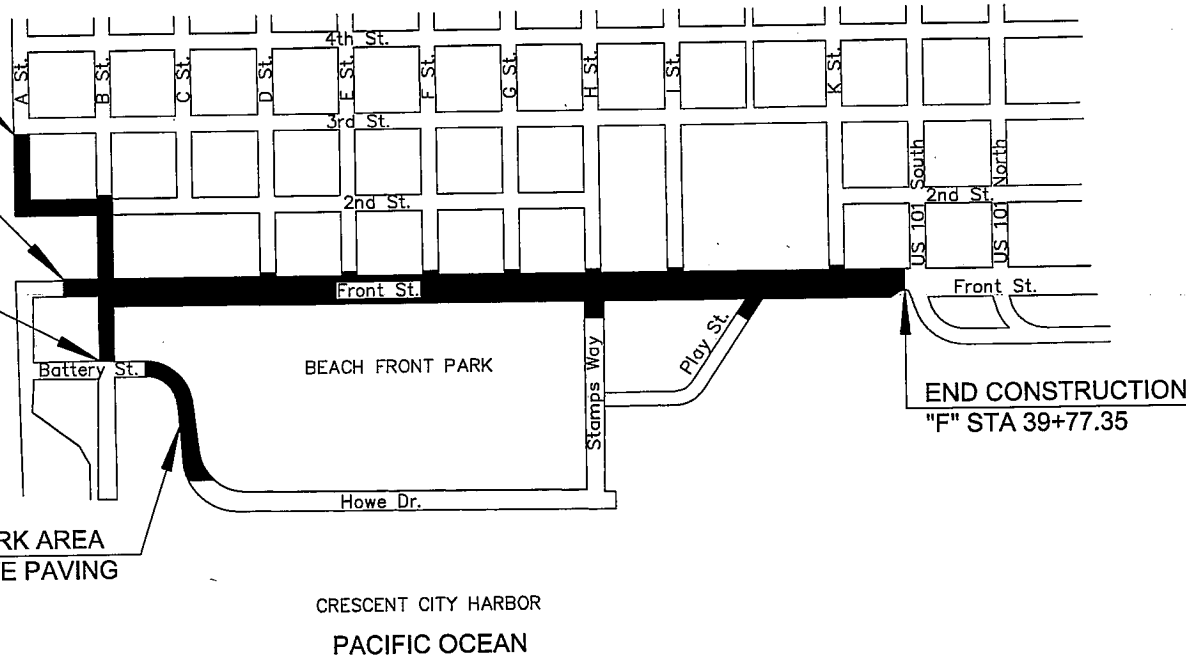
PACIFIC POWER TELEPHONE Mr. BOB HINKEL (707) 465-7411  
 FRONTIER COMM. TELEPHONE Mr. MARC R. CATE (541)269-1956  
 BLUE STAR GAS TELEPHONE Mr. MARK MAIN (707) 464-7827

END CONSTRUCTION  
 "A" STA 21+75.18

BEGIN CONSTRUCTION  
 "F" STA 7+17.86

BEGIN CONSTRUCTION  
 "B" STA 10+61.76

HOWE DR. WORK AREA  
 DETOUR ROUTE PAVING



**INDEX OF SHEETS**

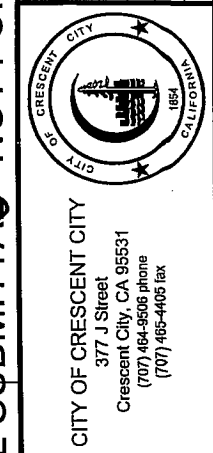
DWG NO.	SHT NO.	SHEET DESCRIPTION
T-1	1	TITLE SHEET
K-1	2	KEY MAP AND LINE INDEX
PP-1 to PP-12	3-14	PLAN AND PROFILES
SP-1 to SP-4	15-18	SUPPLEMENTAL PROFILES
X-1 to X-6	19-24	TYPICAL CROSS SECTIONS
C-1 to C-14	25-38	CONSTRUCTION DETAILS
WPC-1 to WPC-3	39-41	WATER POLLUTION CONTROL PLANS
PC-1 to PC-7	42-48	PAVEMENT CONTOURS
D-1 to D-5	49-53	DRAINAGE PLANS
DD-1 to DD-3	54-56	DRAINAGE DETAILS
W-1 to W-11	57-67	WATERLINE PLAN AND PROFILES
WD-1 to WD-3	68-71	WATERLINE DETAILS
U-1 to U-5	72-76	UTILITY IMPACT PLANS
CS-1 to CS-2	77-78	STAGE CONSTRUCTION, DETOUR AND CONSTRUCTION AREA SIGNS
PD-1 to PD-7	79-85	PAVEMENT DELINEATION
PDD-1 to PDD-2	86-87	PAVEMENT DELINEATION AND SIGN DETAILS
L-1 to L-5	88-92	LAYOUT PLAN
M-1 to M-5	93-97	MATERIAL PLAN
LG-1	98	LANDSCAPING PLAN
LP-1 to LP-5	99-103	LANDSCAPING DETAILS
LPD-1 to LPD-5	104-108	LANDSCAPING DETAILS
E-1 to E-4	109-112	STREET LIGHTING
E-5 to E-6	113-114	ELECTRICAL DETAILS

**APPROVALS**

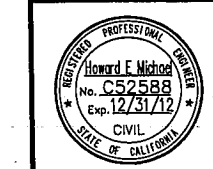
Charles Siert, City Mayor \_\_\_\_\_ Date \_\_\_\_\_  
 James Barnts, PE, Director of Public Works \_\_\_\_\_ Date \_\_\_\_\_  
 Steve Wakefield, Fire Chief \_\_\_\_\_ Date \_\_\_\_\_

**FINAL SUBMITTAL - NOT FOR CONSTRUCTION**

NO.	REVISION	DCP	DATE	APP



**FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 TITLE SHEET**



DESIGN BY MML/DCP  
 DRAWN BY DCP  
 CHECKED BY HEM  
 DATE July 9, 2012  
 SCALE NO SCALE  
 JOB NO. 11009  
 DRAWING NUMBER

**T-1**  
 SHEET NUMBER  
 1 OF 114

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET T-1.DWG

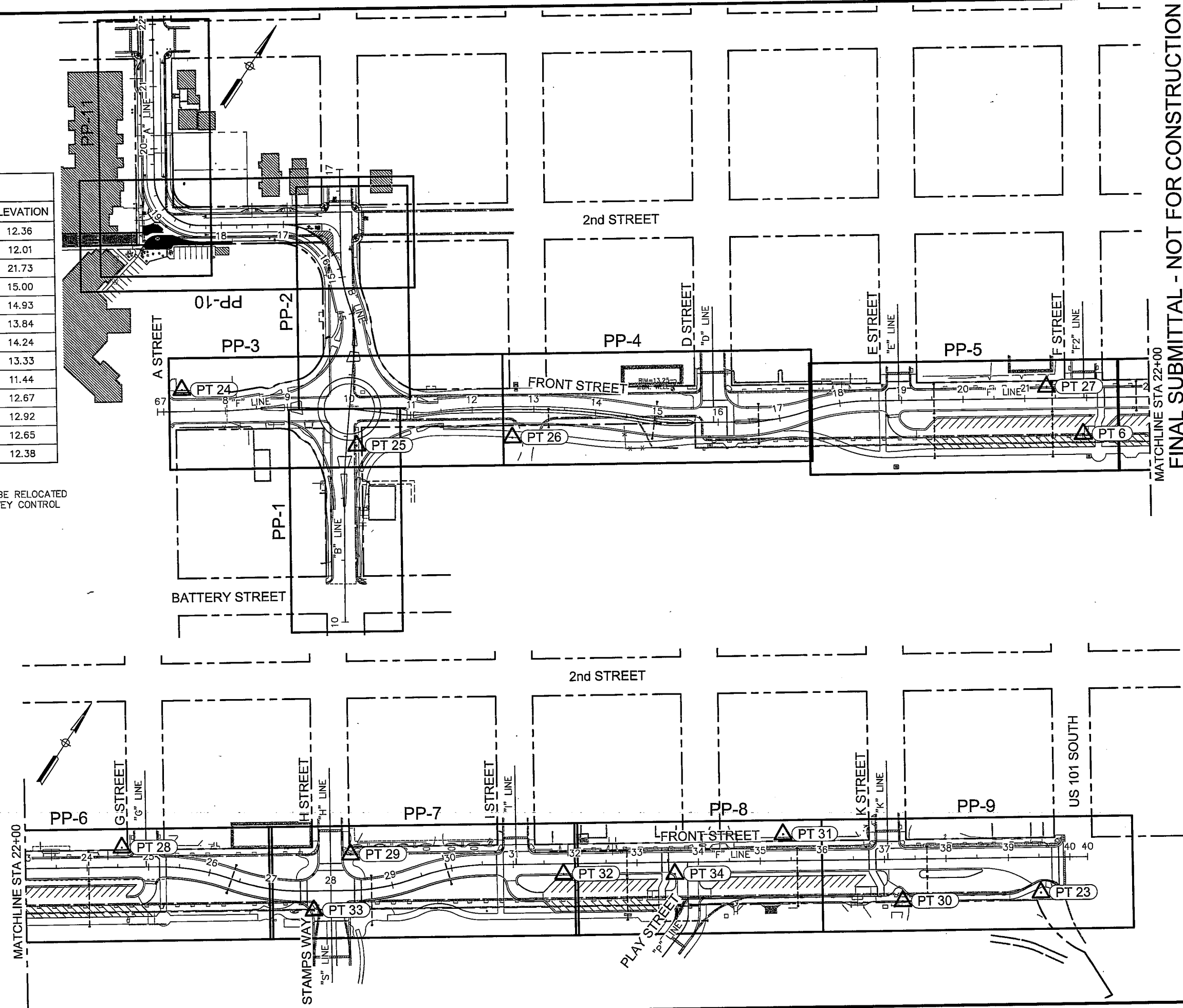
DESIGN OVERSIGHT				QUALITY CONTROL APPROVAL			
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE	Q.C. REVIEW BY	R.C.E. NUMBER	SIGNATURE	DATE

**dh drake haglan AND ASSOCIATES** 11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET K-1.DWG

SURVEY CONTROL POINT TABLE				
Point #	DESCRIPTION	NORTHING	EASTING	ELEVATION
PT 6	CP MAG	2528283.70	5961851.49	12.36
PT 23	CONTROL POINT PWS	2529261.50	5963301.51	12.01
PT 24	CP MAG	2527542.82	5960592.48	21.73
PT 25	CP MAG	2527622.75	5960878.11	15.00
PT 26	CP R&C	2527771.89	5961081.52	14.93
PT 27	CP MAG	2528315.08	5961760.22	13.84
PT 28	CP MAG	2528505.73	5962018.92	14.24
PT 29	CP MAG	2528700.16	5962335.08	13.33
PT 30	CONTROL POINT PWS	2529127.65	5963122.25	11.44
PT 31	CP MAG	2529111.67	5962902.42	12.67
PT 32	CP MAG	2528863.35	5962640.47	12.92
PT 33	CP IP PP PWS	2528592.41	5962334.65	12.65
PT 34	CP MAG	2528962.20	5962790.96	12.38

**NOTE:**  
 BRASS DISC MONUMENTS AT "PT 30" AND "PT 33" SHALL BE RELOCATED AS SHOWN ON CONSTRUCTION DETAILS DRAWING C-7. SURVEY CONTROL MONUMENT AT "PT 23" SHALL BE PROTECTED IN PLACE.



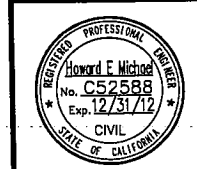
**FINAL SUBMITTAL - NOT FOR CONSTRUCTION**

NO.	REVISION	DATE	APP.



CITY OF CRESCENT CITY  
 377 J Street  
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 (707) 464-9506 phone  
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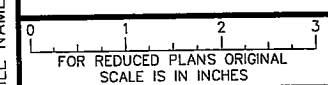
**FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 KEY MAP LINE INDEX  
 AND SURVEY CONTROL**



DESIGN BY DCP  
 DRAWN BY DCP  
 CHECKED BY HEM  
 DATE July 9, 2012  
 SCALE NO SCALE  
 JOB NO. 11009

DRAWING NUMBER  
**K-1**  
 SHEET NUMBER

2 OF 114








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 SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

QUALITY CONTROL APPROVAL  
 Q.C. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

11080 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\FRONT STREET L-4\_L-9.DWG

**LEGEND:**

- SD— EXISTING STORM DRAIN
- SS— EXISTING SANITARY SEWER
- W— EXISTING WATER
- G— EXISTING GAS
- E— EXISTING UNDERGROUND ELECTRIC
- UGT— EXISTING UNDERGROUND TELECOMMUNICATIONS
- C— CUT LIMITS
- F— FILL LIMITS
-  STAMPED CONCRETE
-  BURIED WOODEN SEAWALL, PROTECT IN PLACE
-  EXISTING CONCRETE SEAWALL
-  BURIED WOODEN LOG
-  STRUCTURAL SECTION CONTAINS ROOTS AND WHEN REMOVED IS UNSUITABLE FOR REUSE IN NEW ROAD BED UNLESS 2" SPHERICAL AND LARGER ORGANICS ARE SCREENED OUT. USE OF ORGANIC LADEN PROCESSED STRUCTURAL SECTION MAY BE USED AS BASE IN HARDSCAPE AREAS, EXCLUDING DRIVEWAYS.

**GENERAL NOTES:**

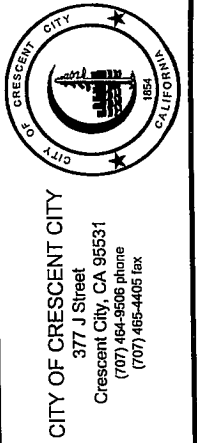
1. SEE "CONSTRUCTION DETAIL" SHEETS FOR DETAILS NOT SHOWN.
2. SEE "SUPPLEMENTAL PROFILE" SHEETS FOR PROFILE DATA AND PAVEMENT TRANSITION DETAILS NOT SHOWN.

**KEY NOTES:**

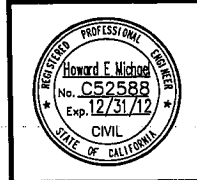
- 1 LANDSCAPING BUFFER, SEE PLANTING PLANS.
- 2 DRAINAGE INLET, SEE DRAINAGE PLANS.
- 3 CURB RAMP (CASE A).
- 4 CURB RAMP (CASE F).
- 5 CONCRETE TRANSITION TO EXISTING DRIVEWAY WITH 5% MAX SLOPE.
- 6 PEDESTRIAN BARRIER FENCE, SEE LANDSCAPING PLANS.
- 7 DRIVEWAY (TYPE 1), SEE CONSTRUCTION DETAILS DRAWING C-10.
- 8 DRIVEWAY (TYPE 2), SEE CONSTRUCTION DETAILS DRAWING C-10.
- 9 STANDARD 45' PARKING STALLS, SEE CONSTRUCTION DETAILS DRAWING PDD-2.
- 10 45' ADA ACCESSIBLE PARKING, SEE CONSTRUCTION DETAILS DRAWING C-11.
- 11 TEXTURED CONCRETE CROSS WALK, FOR STRUCTURAL DETAILS, SEE CONSTRUCTION DETAILS DRAWING C-10, FOR AESTHETIC DETAILS, SEE LANDSCAPING PLANS.
- 12 CONCRETE APRON, FOR STRUCTURE DETAILS, SEE CONSTRUCTION DETAILS DRAWING C-11, FOR AESTHETIC DETAILS, SEE LANDSCAPING PLANS.
- 13 RAISED SIDEWALK CROSSING RAMP, SEE CONSTRUCTION DETAILS DRAWING C-10.
- 14 CONCRETE SIDEWALK, SEE LANDSCAPING PLANS FOR DIMENSIONS, ELEVATIONS AND DETAILS NOT SHOWN ON ROAD PLANS.
- 15 NEW WATER MAIN, SEE WATER LINE PLAN AND PROFILE DRAWINGS.
- 16 NEW STORM DRAIN, SEE DRAINAGE PLANS.
- 17 ROOT BALL AT EXISTING TREE WELLS TO BE REMOVED TO 24" BELOW FINISHED GRADE, TYP.
- 18 REMOVE 48"± x 50'± BURIED LOG AND SALVAGE TO CITY.
- 19 REMOVE 48"± x 100'± BURIED LOG AND SALVAGE TO CITY.
- 20 PAVING CONFORM, SEE CONSTRUCTION DETAILS DRAWING C-10.
- 21 CONCRETE CURB (TYPE D-6) MOUNTABLE.
- 22 4"± PVC SLEEVE CAPPED FOR FUTURE IRRIGATION INSTALLATION. EXACT LOCATION TO BE DETERMINED BY THE CITY.

FINAL SUBMITTAL - NOT FOR CONSTRUCTION

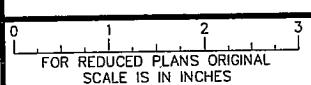
NO.	REVISION	DCP	DATE	APP



**FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 PLAN AND PROFILE  
 NOTES AND LEGENDS**



DESIGN BY	DCP
DRAWN BY	DCP
CHECKED BY	HEM
DATE	July 9, 2012
SCALE	AS SHOWN
JOB NO.	11009
DRAWING NUMBER	PP-1
SHEET NUMBER	3 OF 114

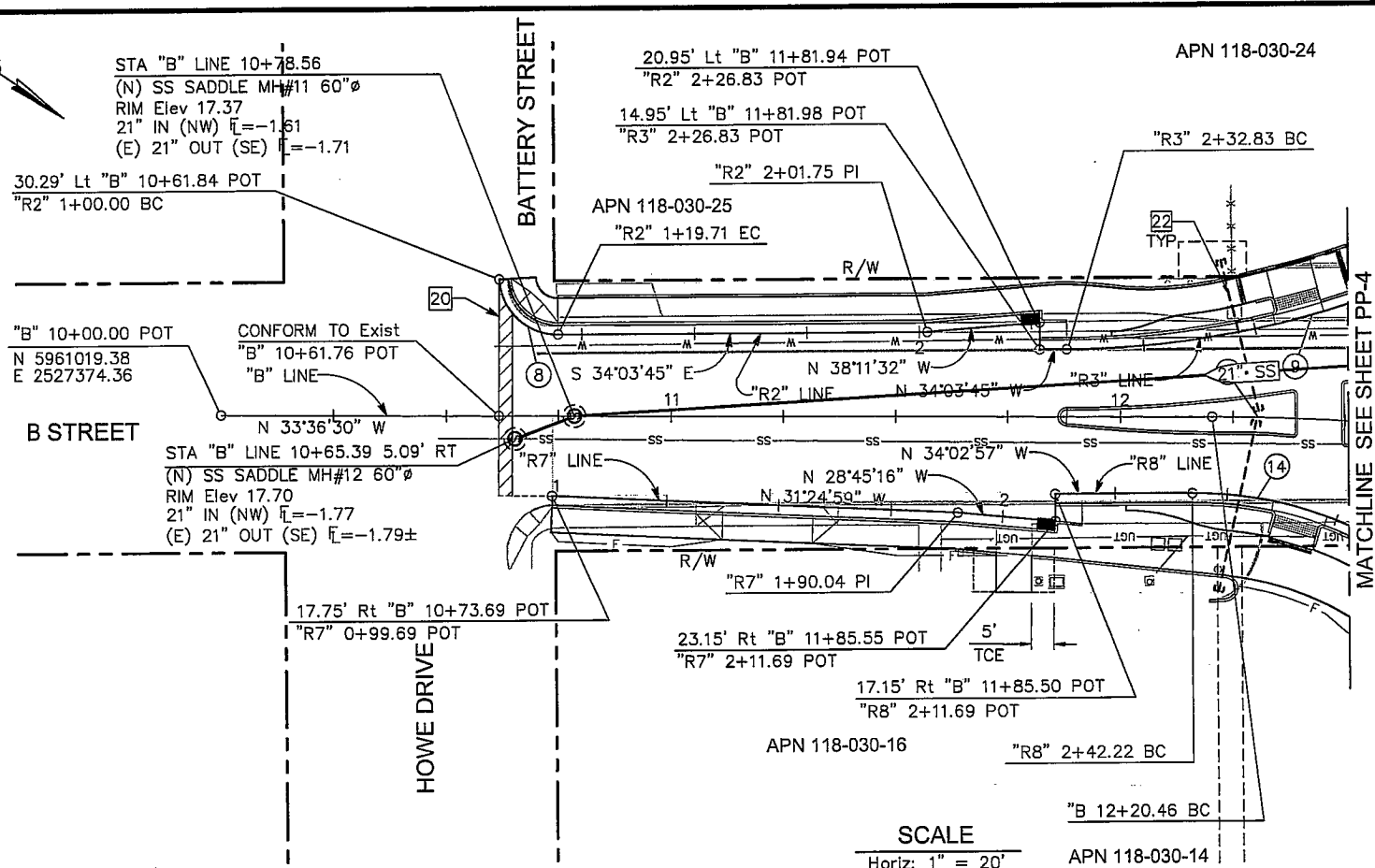


DESIGN OVERSIGHT			
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE

QUALITY CONTROL APPROVAL			
Q.C. REVIEW BY	R.C.E. NUMBER	SIGNATURE	DATE

**dh drake haglan AND ASSOCIATES** 11080 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670

PLOT BY: RICHARD PLOT DATE: \$DATE\$ FILE NAME: \$FILE\$

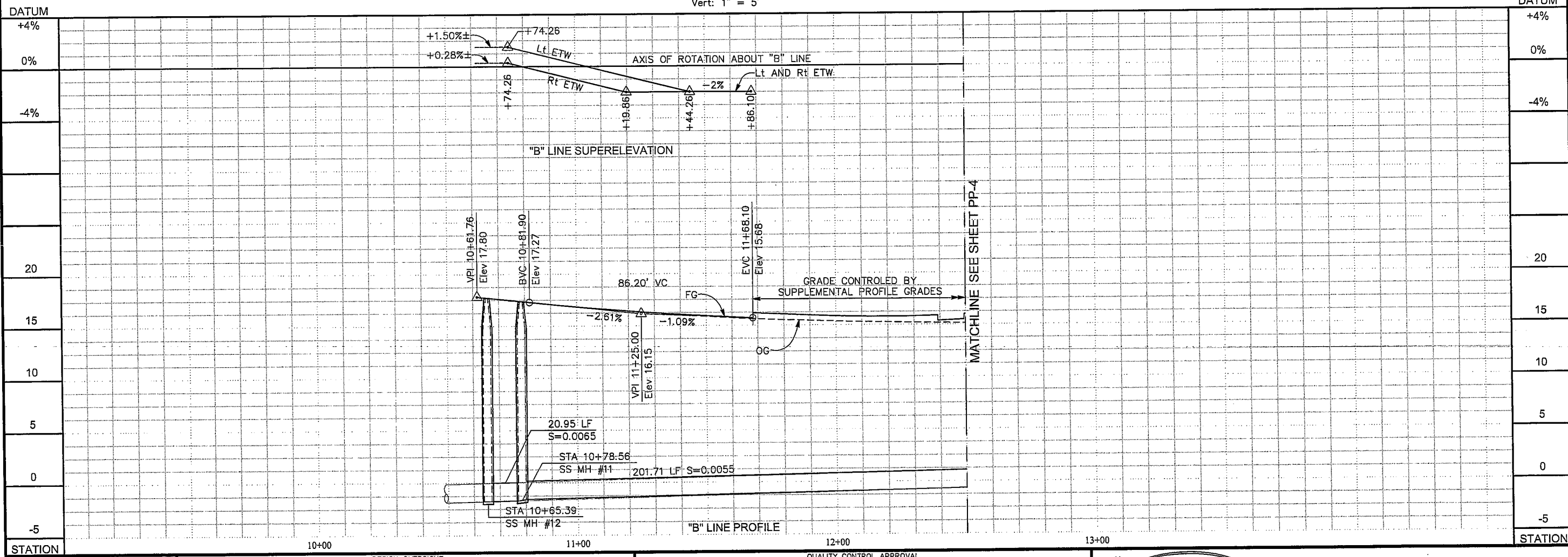


SCALE  
 Horiz: 1" = 20'  
 Vert: 1" = 5'

NOTE:  
 FOR NOTES SEE PLAN AND PROFILE DRAWING PP-1.

CURVE DATA TABLE

No.	R	$\Delta$	T	L
1	500.00	4°47'56"	20.95	41.88
8	13.00	86°52'02"	12.31	19.71
9	209.00	29°15'32"	54.56	106.73
14	85.00	57°59'20"	47.11	86.03



STATION 0 1 2 3  
 FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

DESIGN OVERSIGHT  
 SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

QUALITY CONTROL APPROVAL  
 Q.C. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**dh drake haglan AND ASSOCIATES**  
 11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95570

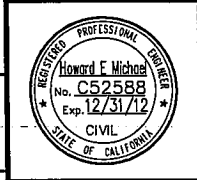
FINAL SUBMITTAL - NOT FOR CONSTRUCTION

NO.	REVISION	DATE	APP

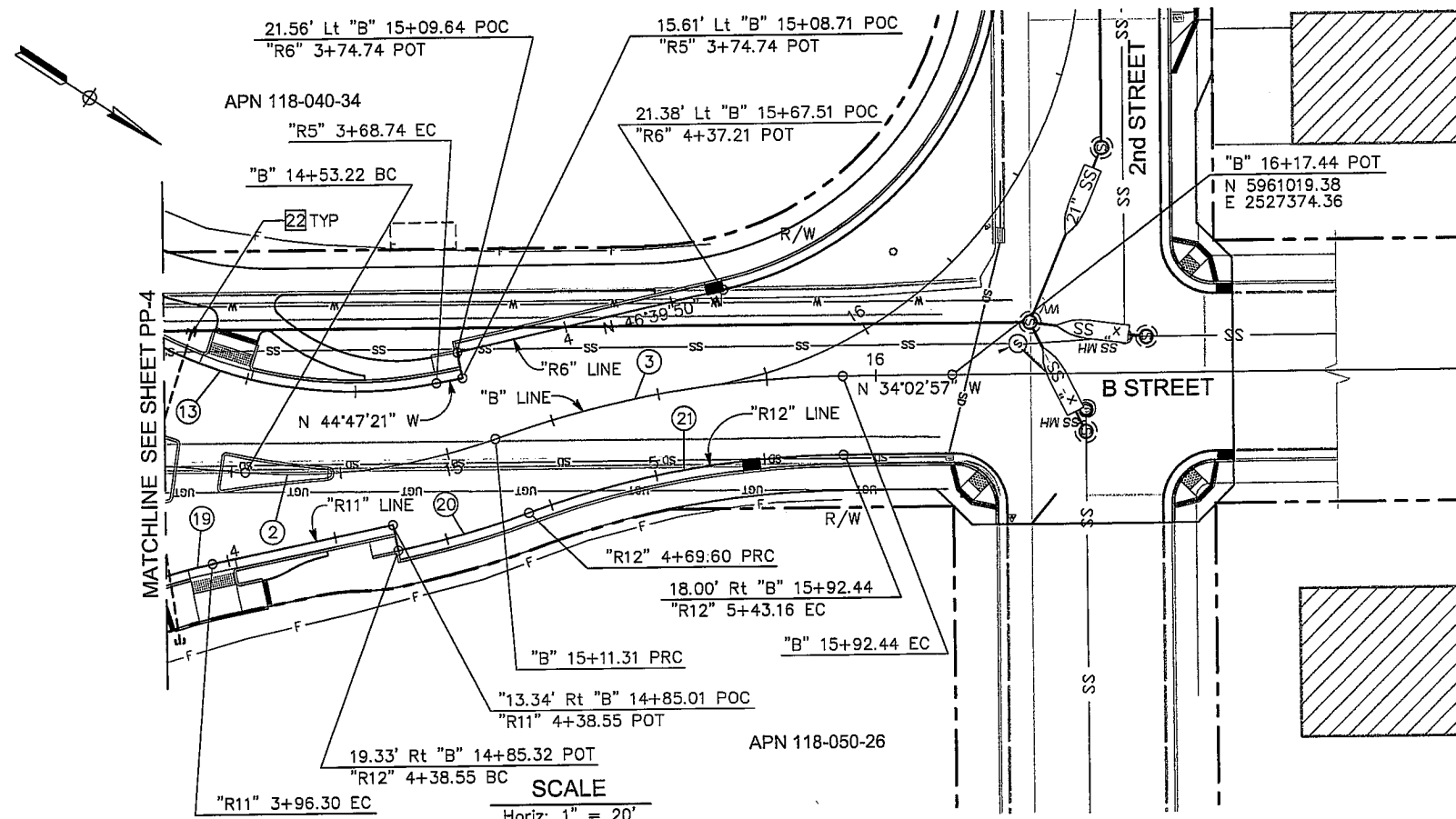


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 Crescent City, CA 95531  
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FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 PLAN AND PROFILE  
 STA 10+00.00 TO STA 12+50.74



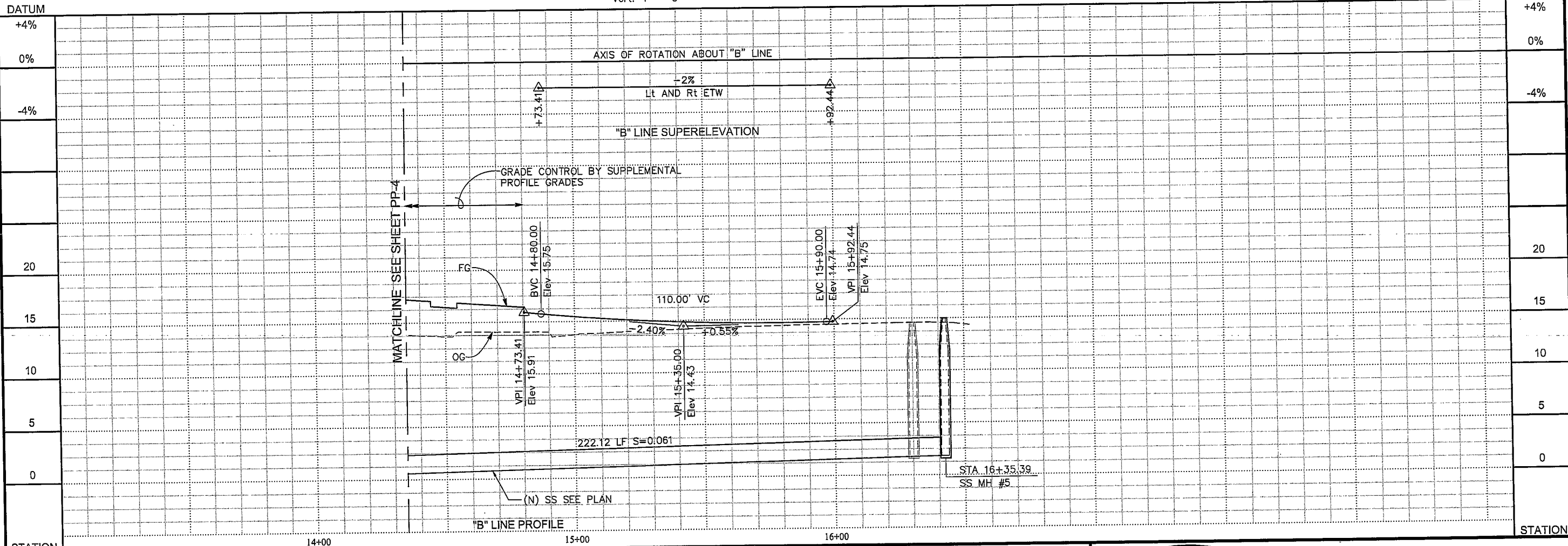
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 DRAWN BY REU  
 CHECKED BY HEM  
 DATE July 9, 2012  
 SCALE AS SHOWN  
 JOB NO. 11009  
 DRAWING NUMBER  
**PP-2**  
 SHEET NUMBER  
 4 OF 111



**NOTE:**  
 1. FOR NOTES SEE PLAN AND PROFILE SHEET PP-1.  
 2. SEE DRAWING PP-11 FOR LAYOUT DATA AT "B" ST/2ND ST INTERSECTION.

**CURVE DATA TABLE**

No.	R	Δ	T	L
2	135.50	24°33'57"	29.50	58.10
3	240.50	19°19'35"	40.95	81.12
13	98.00	42°27'48"	38.07	72.63
19	218.00	43°44'14"	38.03	74.03
20	85.00	8°09'40"	15.55	31.05
21	214.00	19°41'40"	37.15	73.56



STATION 0 2 3  
 FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

DESIGN OVERSIGHT  
 SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

QUALITY CONTROL APPROVAL  
 Q.C. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

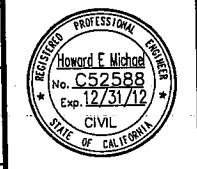
**dh drake haglan AND ASSOCIATES**  
 11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670

**FINAL SUBMITTAL - NOT FOR CONSTRUCTION**

NO.	REVISION	DCP	DATE	APP

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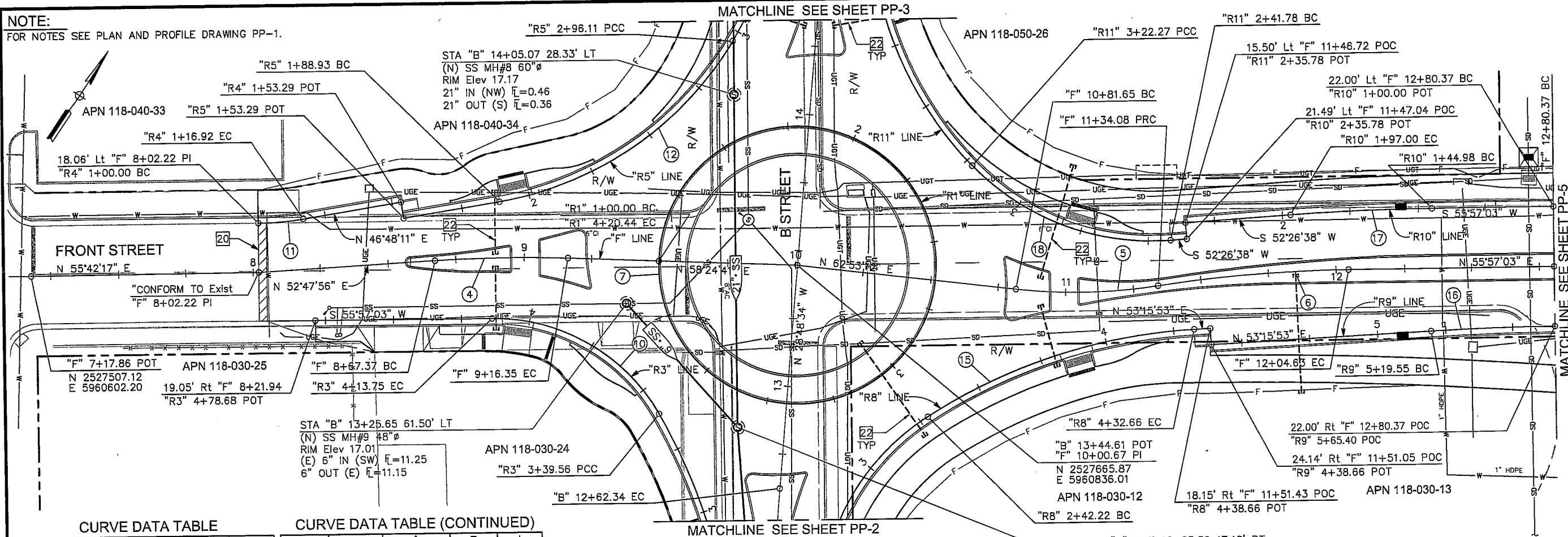
**FRONT STREET REVITALIZATION  
 (A STREET to HIGHWAY 101 SOUTH)  
 PLAN AND PROFILE  
 STA 14+34.69 to STA 16+17.44**



DESIGN BY REU  
 DRAWN BY REU  
 CHECKED BY HEM  
 DATE July 9, 2012  
 SCALE AS SHOWN  
 JOB NO. 11009  
 DRAWING NUMBER  
**PP-3**  
 SHEET NUMBER  
 5 OF 111

PLOT BY: RICHARD PLOT DATE: \$DATE\$ FILE NAME: \$FILEL\$

NOTE:  
FOR NOTES SEE PLAN AND PROFILE DRAWING PP-1.



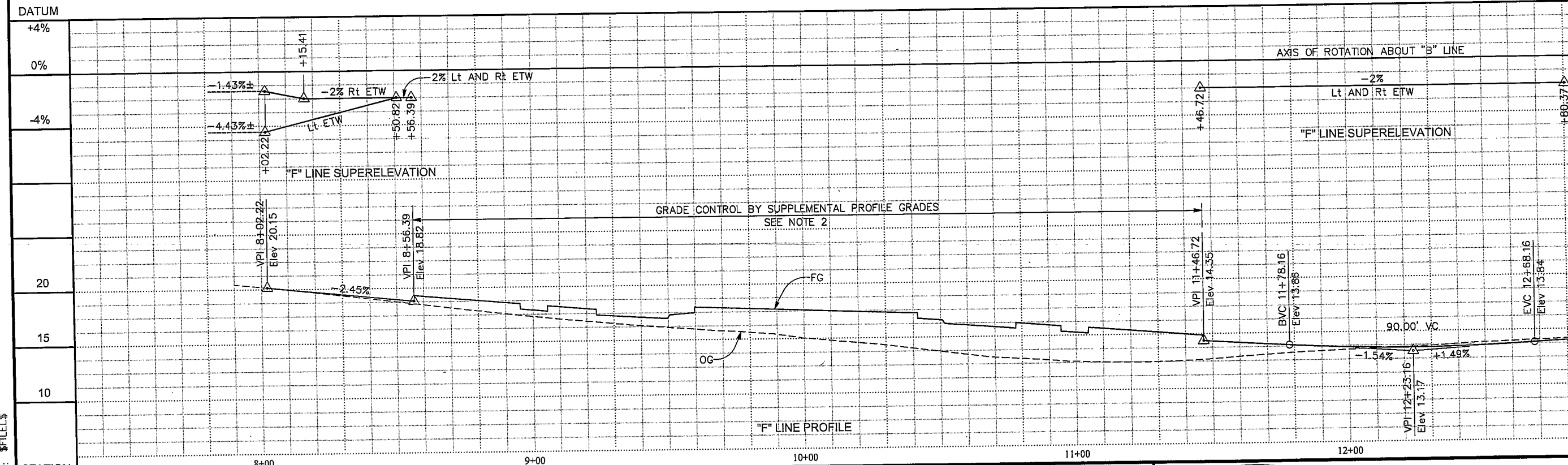
**CURVE DATA TABLE**

No.	R	Δ	T	L
4	500.00	5°36'45"	24.51	48.98
5	200.00	15°01'13"	26.37	52.43
6	500.00	8°05'04"	35.33	70.55
7	51.00	360°00'00"	0.00	320.44
10	70.00	60°43'39"	41.01	74.19
11	106.00	9°08'52"	8.48	16.92

**CURVE DATA TABLE (CONTINUED)**

No.	R	Δ	T	L
11	106.00	9°08'52"	8.48	16.92
12	125.00	49°07'44"	57.14	107.18
15	204.00	29°19'30"	53.38	104.41
16	978.00	2°41'10"	22.93	45.85
17	850.00	3°30'25"	26.02	52.03
18	93.00	49°35'10"	42.96	80.49

**SCALE**  
Horiz: 1" = 20'  
Vert: 1" = 5'



STATION 0 1 2 3  
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

DESIGN OVERSIGHT  
SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

QUALITY CONTROL APPROVAL  
Q.C. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**dh drake haglan AND ASSOCIATES**  
11060 White Rock Road, Suite 200  
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**FRONT STREET REVITALIZATION  
(A STREET TO HIGHWAY 101 SOUTH)  
PLAN AND PROFILE  
STA 7+17.86 TO STA 12+80.37**

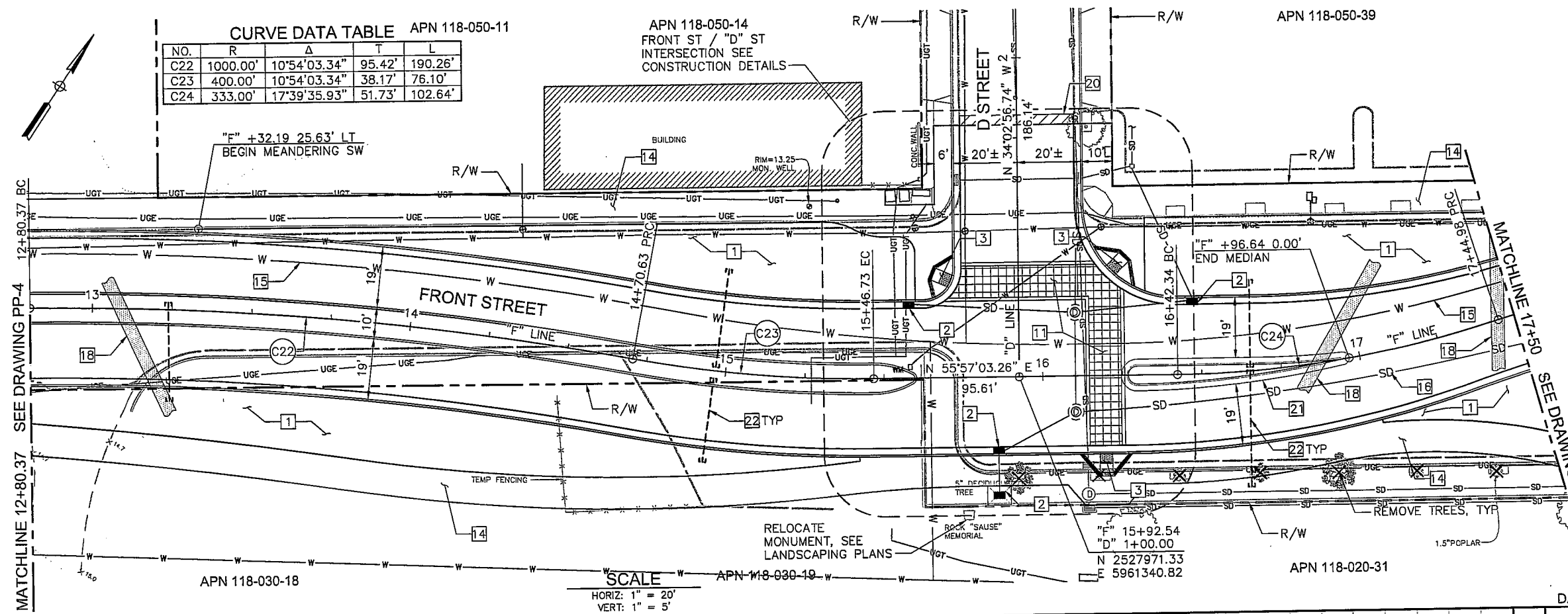
**PROFESSIONAL ENGINEER**  
Howard F. Michael  
No. C52588  
Exp. 12/31/12  
CIVIL  
STATE OF CALIFORNIA

DESIGN BY	REU
DRAWN BY	REU
CHECKED BY	HEM
DATE	July 9, 2012
SCALE	AS SHOWN
JOB NO.	11009
DRAWING NUMBER	PP-4
SHEET NUMBER	6 OF 111

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
FILE NAME: U:\11009 - FRONT STREET - 400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET L-4-L-9.DWG

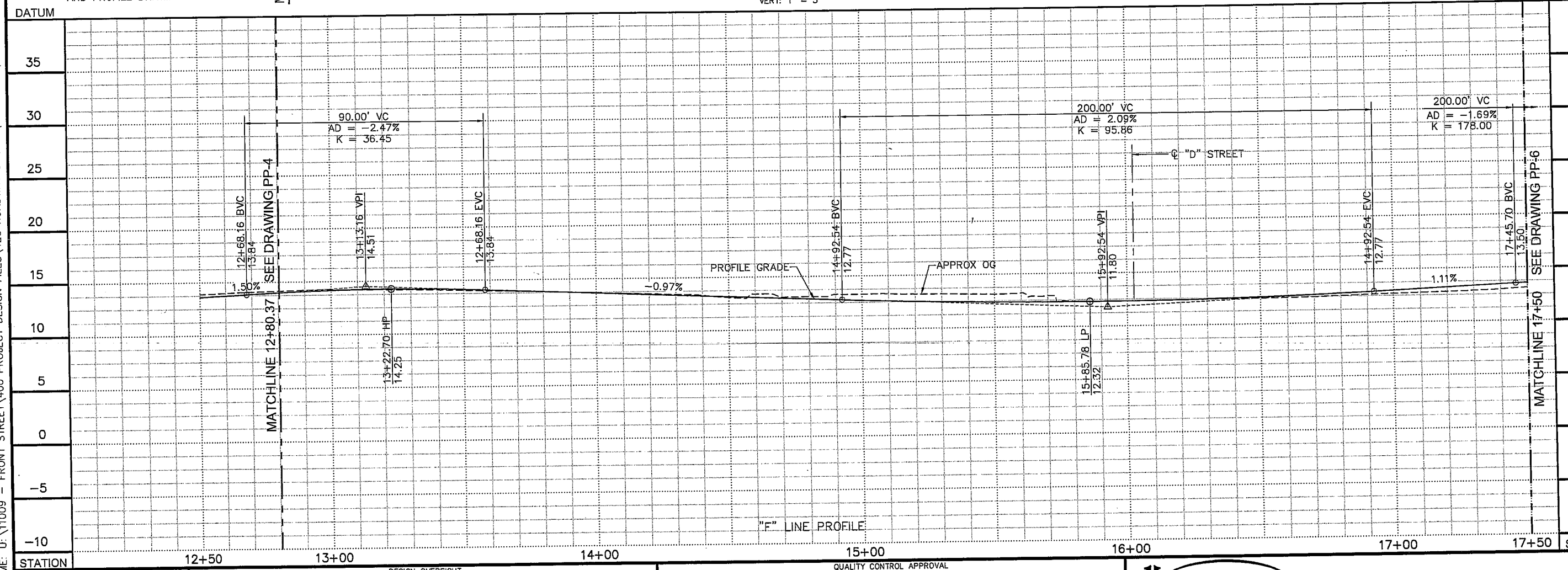
**CURVE DATA TABLE** APN 118-050-11

NO.	R	Δ	T	L
C22	1000.00'	10°54'03.34"	95.42'	190.26'
C23	400.00'	10°54'03.34"	38.17'	76.10'
C24	333.00'	17°39'35.93"	51.73'	102.64'



**NOTE:**  
FOR KEY NOTES [X], SEE PLAN AND PROFILE DRAWING PP-1

**SCALE**  
HORIZ: 1" = 20'  
VERT: 1" = 5'



STATION	12+50	13+00	14+00	15+00	16+00	17+00	17+50
DATUM							

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NO.	REVISION	DCP	DATE	APP

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**FRONT STREET REVITALIZATION  
(A STREET TO HIGHWAY 101 SOUTH)  
PLAN AND PROFILE  
STA 12+80.37 TO STA 17+50**

**PROFESSIONAL ENGINEER**  
Howard E. Michels  
No. C52588  
Exp. 12/31/12  
CIVIL  
STATE OF CALIFORNIA

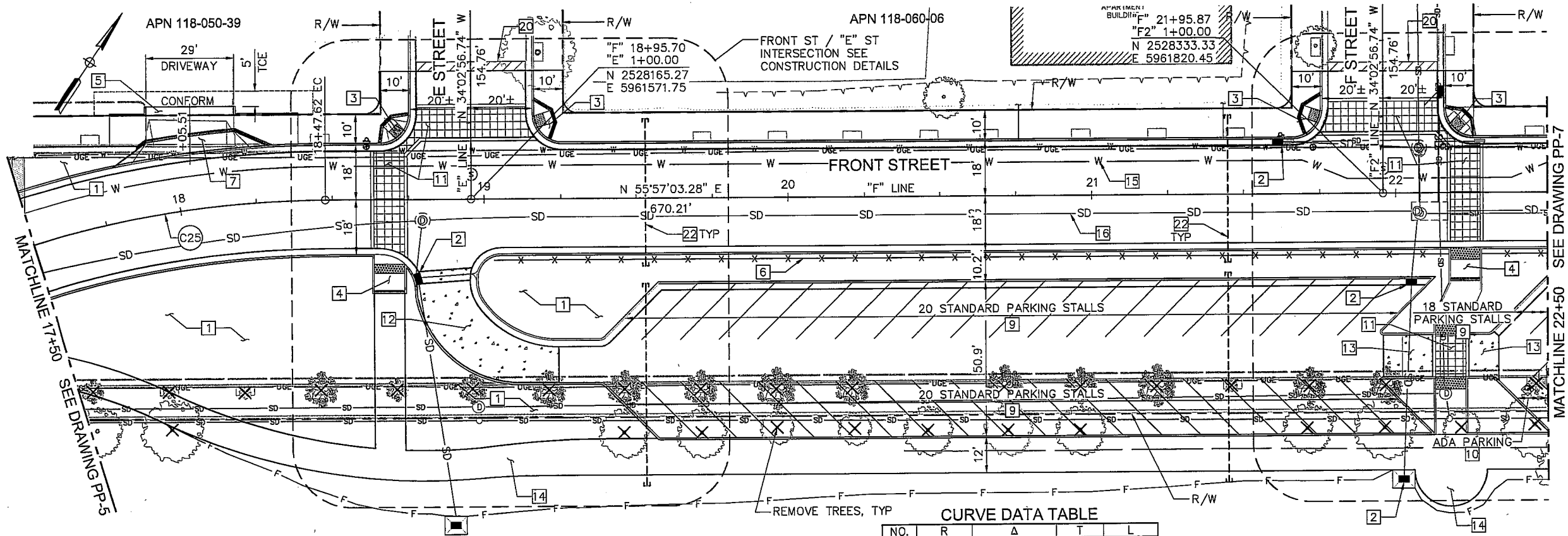
DESIGN BY: MML/DCP  
DRAWN BY: DCP  
CHECKED BY: HEM  
DATE: July 9, 2012  
SCALE: AS SHOWN  
JOB NO.: 11009

DRAWING NUMBER  
**PP-5**

SHEET NUMBER  
7 of 114



PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET L-4-L-9.DWG

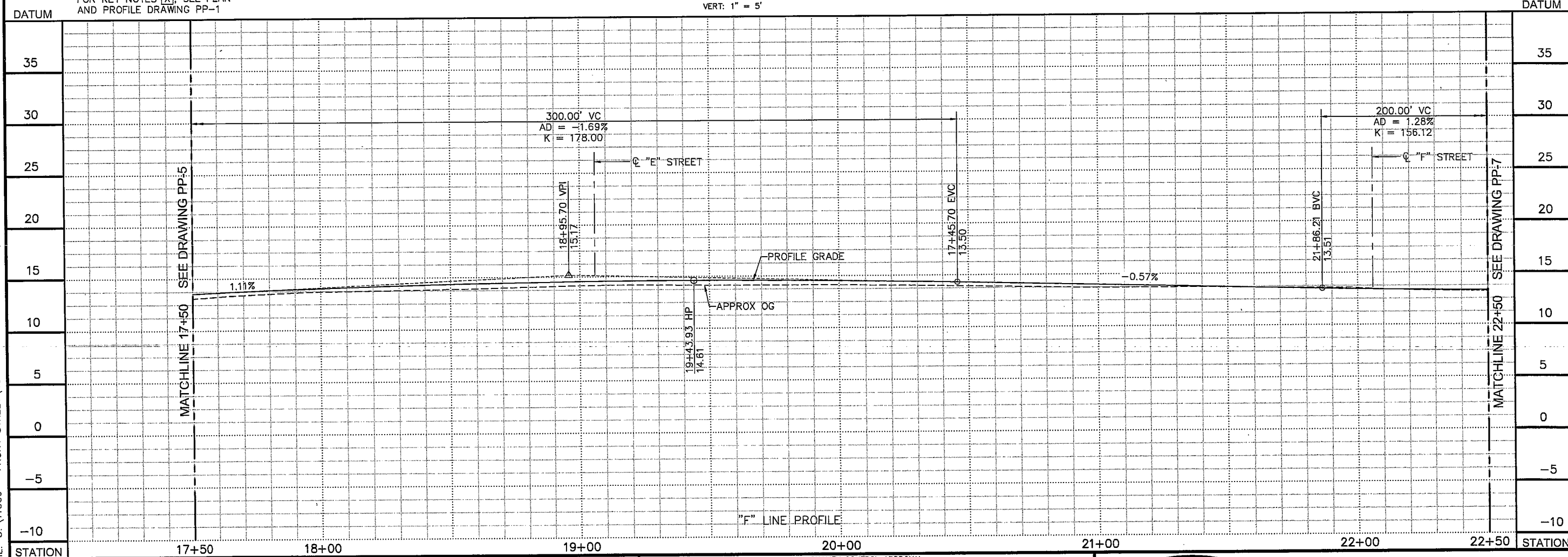


NOTE:  
 FOR KEY NOTES [X], SEE PLAN  
 AND PROFILE DRAWING PP-1

SCALE APN 118-020-31  
 HORIZ: 1" = 20'  
 VERT: 1" = 5'

CURVE DATA TABLE

NO.	R	Δ	T	L
C25	333.00'	17°39'35.44"	51.73'	102.64'



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NO. REVISION

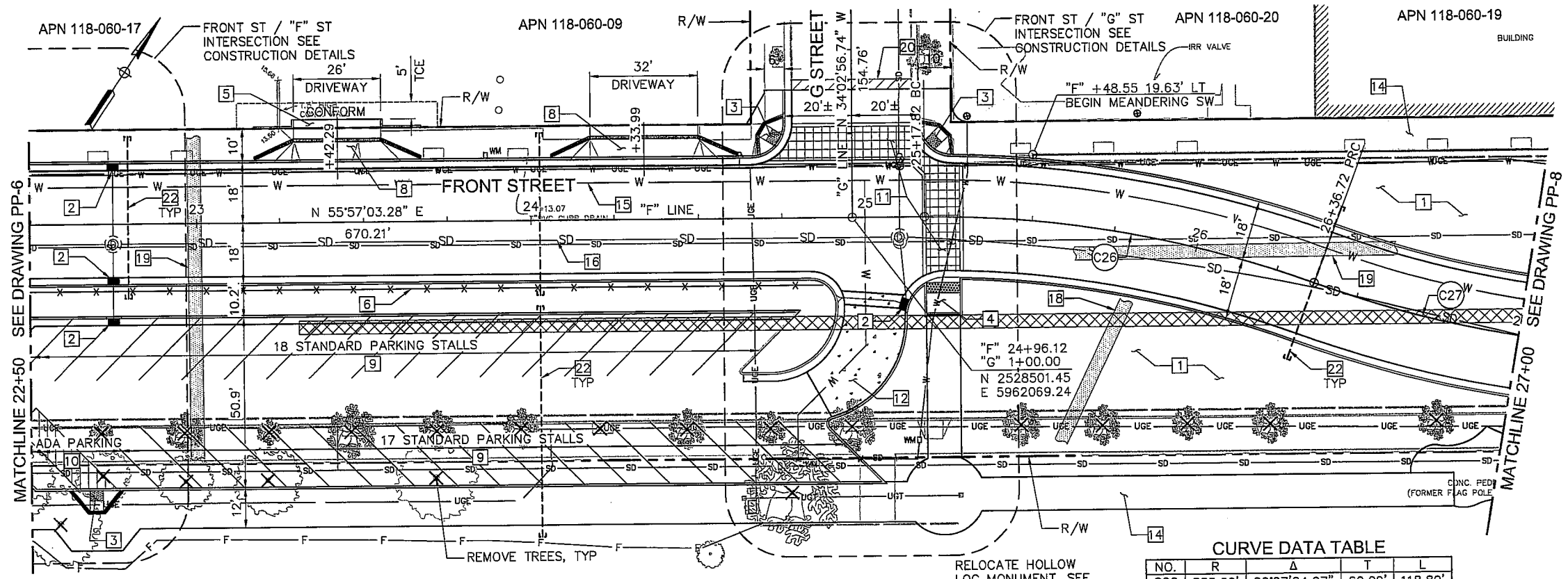
DCP DATE APP

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FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 PLAN AND PROFILE  
 STA 17+50 to STA 22+50

DESIGN BY MML/DCP  
 DRAWN BY DCP  
 CHECKED BY HEM  
 DATE July 9, 2012  
 SCALE AS SHOWN  
 JOB NO. 11009  
 DRAWING NUMBER  
**PP-6**  
 SHEET NUMBER

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET L-4\_L-9.DWG

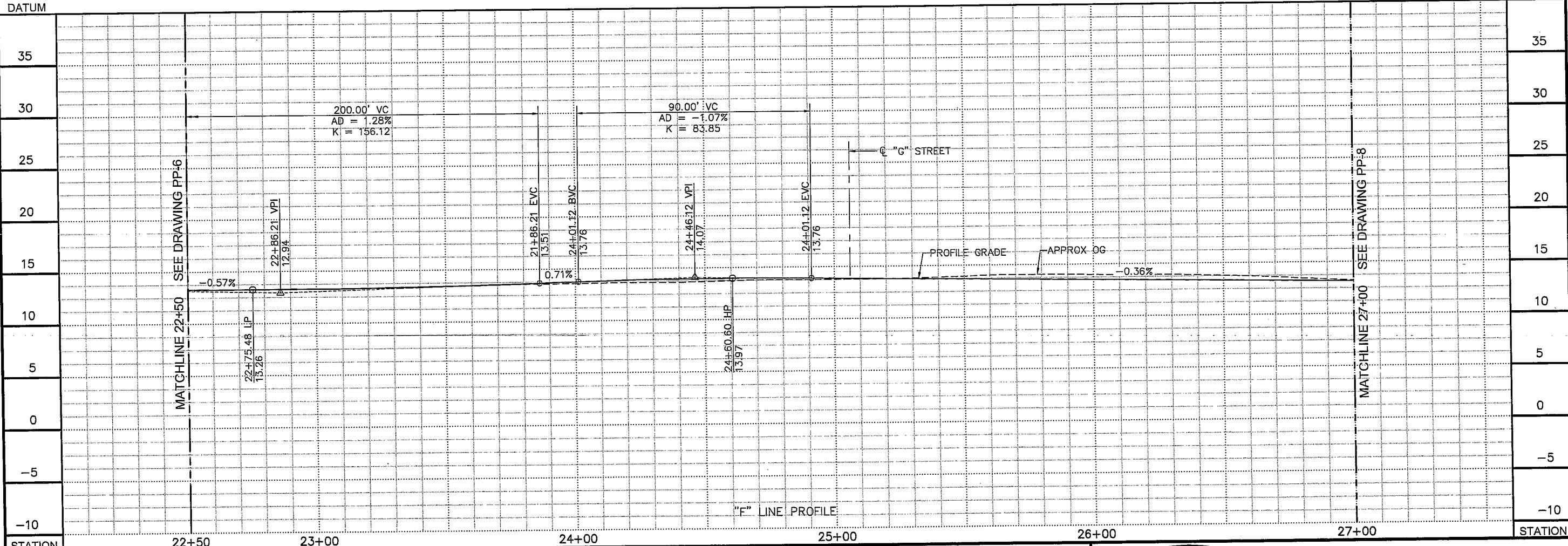


**CURVE DATA TABLE**

NO.	R	Δ	T	L
C26	333.00'	20°27'24.07"	60.09'	118.89'
C27	333.00'	20°27'23.91"	60.09'	118.89'

**NOTE:**  
 FOR KEY NOTES [X], SEE PLAN AND PROFILE DRAWING PP-1

APN 118-020-31  
 SCALE  
 HORIZ: 1" = 20'  
 VERT: 1" = 5'



**FINAL SUBMITTAL - NOT FOR CONSTRUCTION**

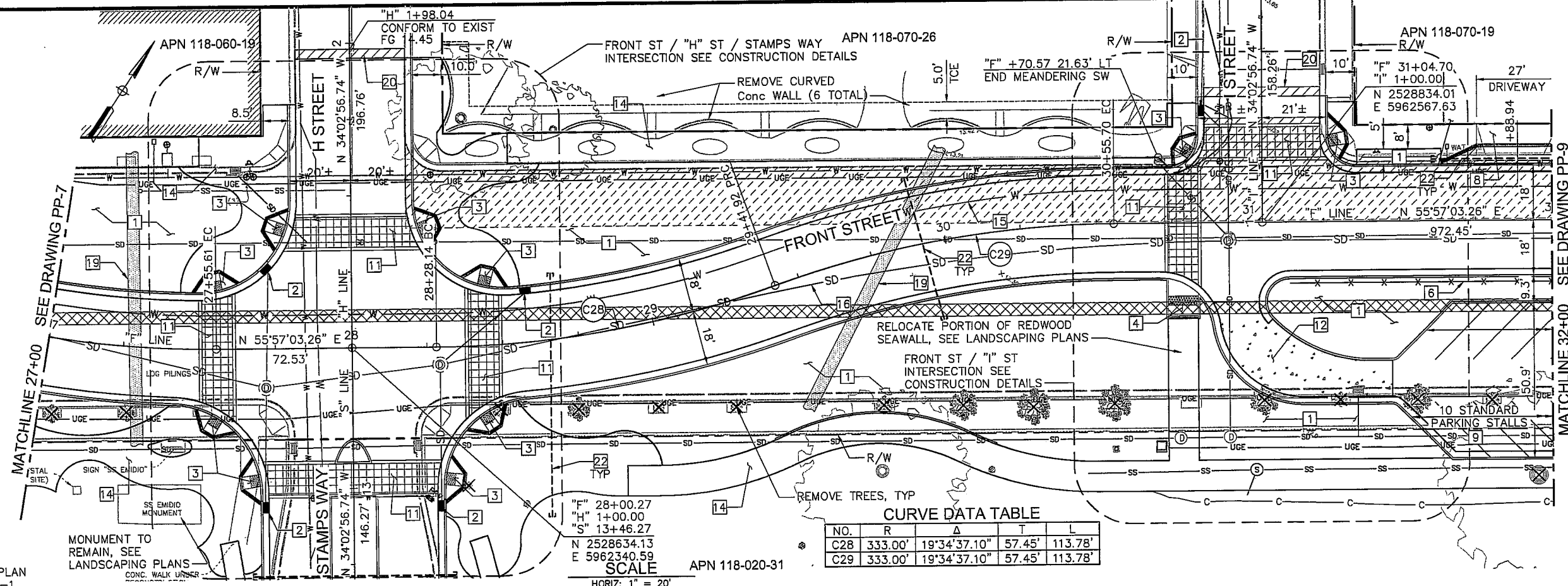
NO.	REVISION	DATE	APP.

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 377 J Street  
 Crescent City, CA 95531  
 (707) 464-9606 phone  
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**FRONT STREET REVITALIZATION**  
**(A STREET TO HIGHWAY 101 SOUTH)**  
**PLAN AND PROFILE**  
**STA 22+50 TO STA 27+00**

DESIGN BY: MML/DCP  
 DRAWN BY: DCP  
 CHECKED BY: HEM  
 DATE: July 9, 2012  
 SCALE: AS SHOWN  
 JOB NO.: 11009  
 DRAWING NUMBER:  
**PP-7**  
 SHEET NUMBER:  
 9 of 114

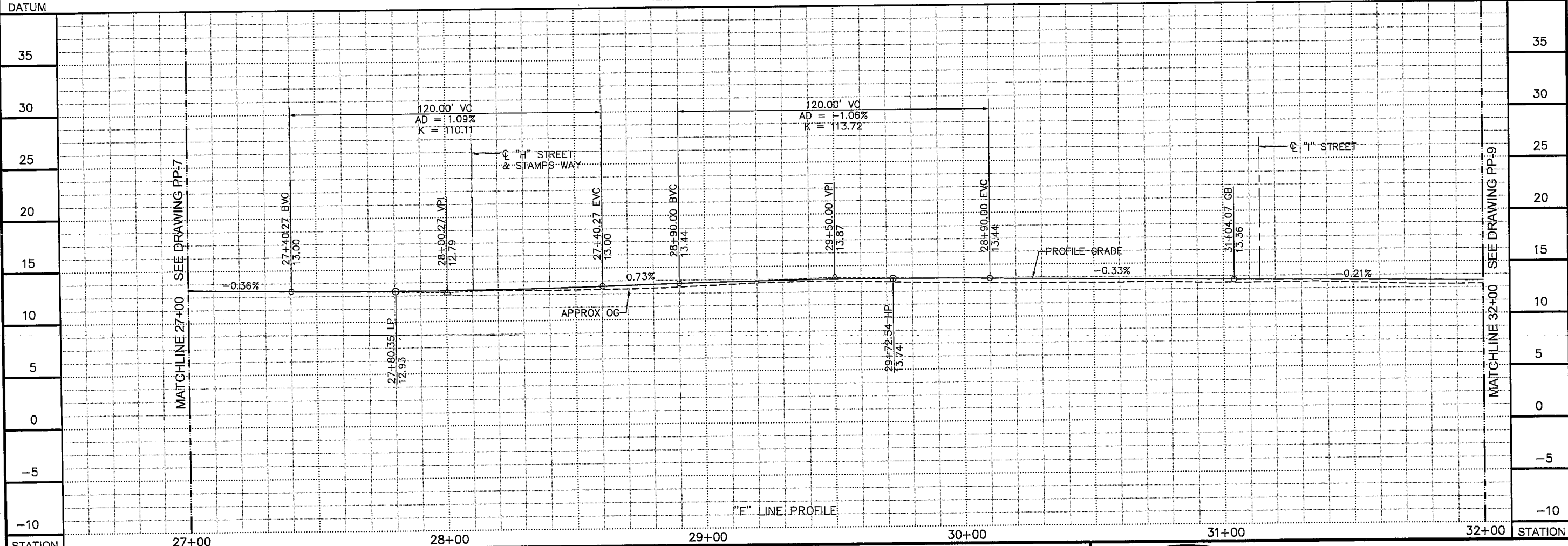
PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\1009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET L-4\_L-9.DWG



SCALE APN 118-020-31  
 HORIZ: 1" = 20'  
 VERT: 1" = 5'

CURVE DATA TABLE

NO.	R	Δ	T	L
C28	333.00'	19°34'37.10"	57.45'	113.78'
C29	333.00'	19°34'37.10"	57.45'	113.78'



DESIGN OVERSIGHT

SUPERVISION BY: \_\_\_\_\_ R.C.E. NUMBER: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

QUALITY CONTROL APPROVAL

Q.C. REVIEW BY: \_\_\_\_\_ R.C.E. NUMBER: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

**dh drake haglan AND ASSOCIATES**  
 11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670

FINAL SUBMITTAL - NOT FOR CONSTRUCTION

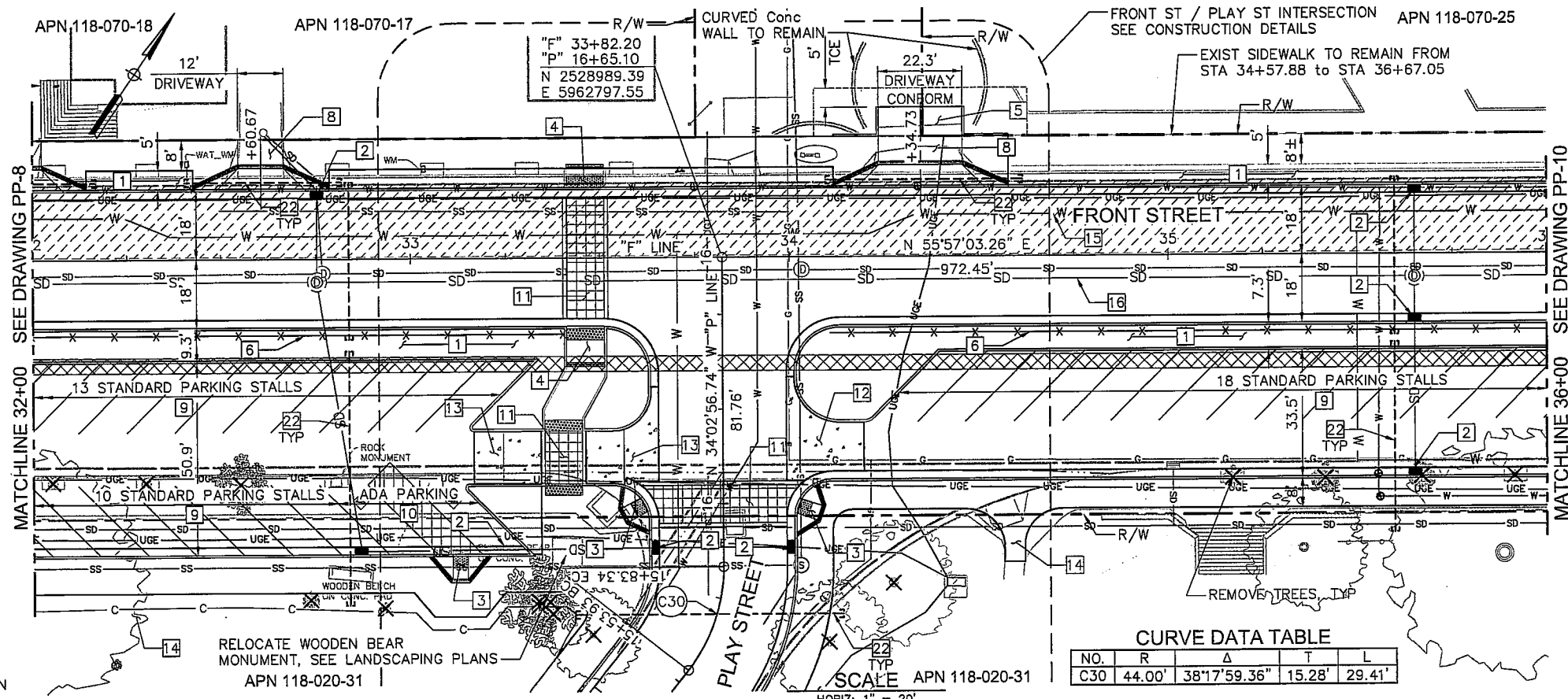
CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 464-9506 phone  
 (707) 465-4405 fax

FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 PLAN AND PROFILE  
 STA 27+00 TO STA 32+00

PROFESSIONAL SEAL  
 Howard E. Michael  
 No. CS2588  
 Exp. 12/31/12  
 CIVIL  
 STATE OF CALIFORNIA

DESIGN BY: MML/DCP  
 DRAWN BY: DCP  
 CHECKED BY: HEM  
 DATE: July 9, 2012  
 SCALE: AS SHOWN  
 JOB NO.: 11009  
 DRAWING NUMBER: PP-8  
 SHEET NUMBER: 10 OF 114

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\100% SUBMITTAL VPL\FRONT STREET L-4\_L-9.DWG

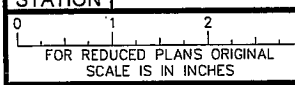
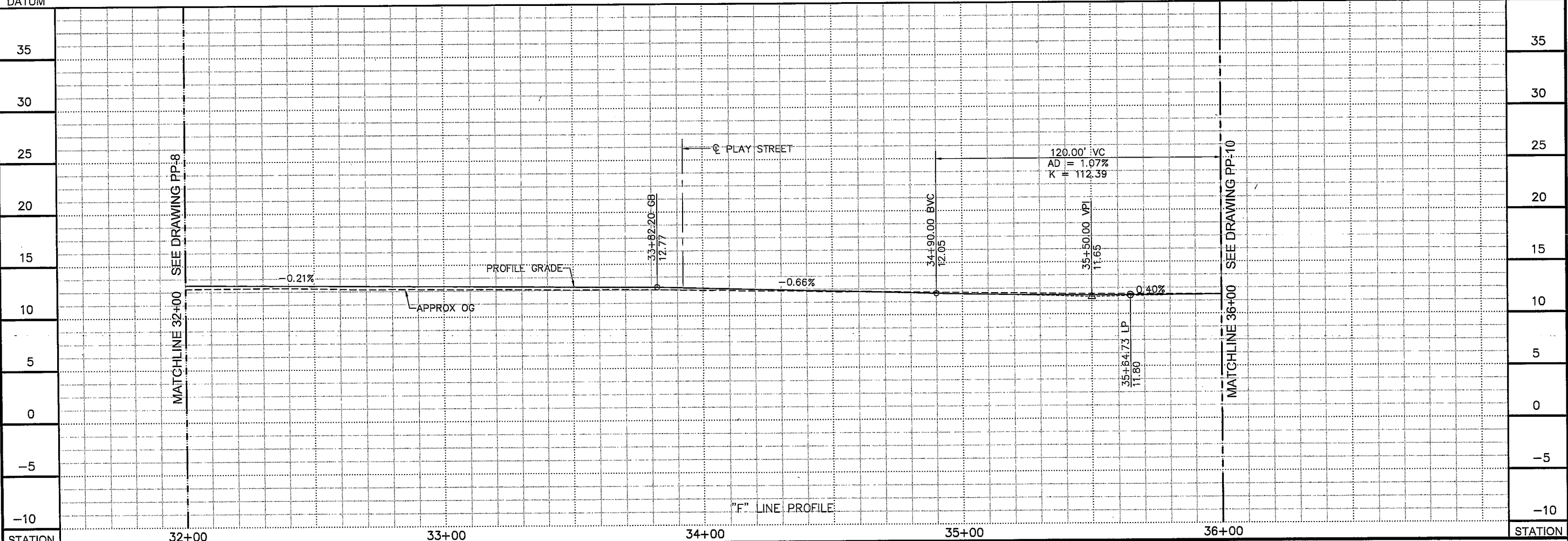


**NOTE:**  
 FOR KEY NOTES [X], SEE PLAN AND PROFILE DRAWING PP-1

**CURVE DATA TABLE**

NO.	R	Δ	T	L
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SCALE APN 118-020-31  
 HORIZ: 1" = 20'  
 VERT: 1" = 5'

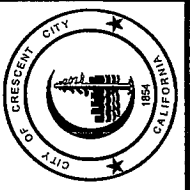


DESIGN OVERSIGHT				QUALITY CONTROL APPROVAL			
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE	Q.C. REVIEW BY	R.C.E. NUMBER	SIGNATURE	DATE

**dh drake haglan AND ASSOCIATES**  
 11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670

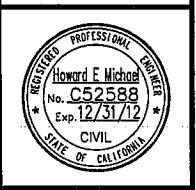
**FINAL SUBMITTAL - NOT FOR CONSTRUCTION**

NO.	REVISION	DCP	DATE	APP.



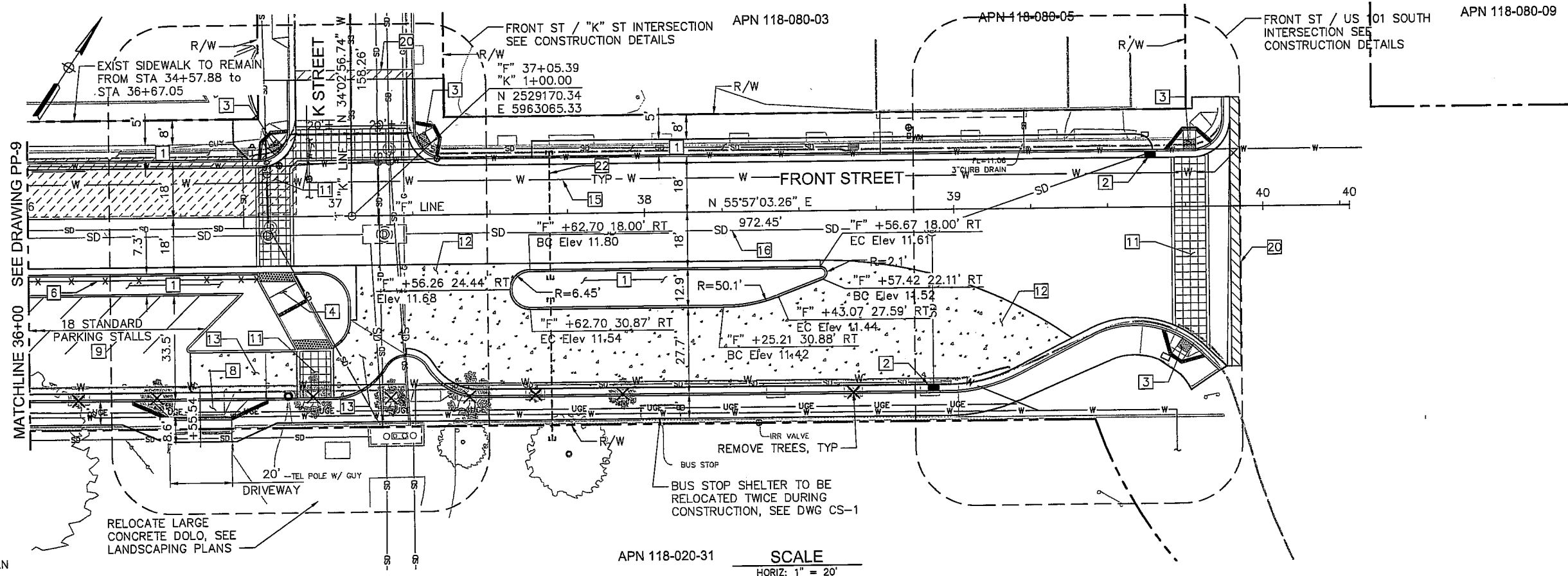
CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 464-9506 phone  
 (707) 465-4405 fax

**FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 PLAN AND PROFILE  
 STA 32+00 TO STA 36+00**



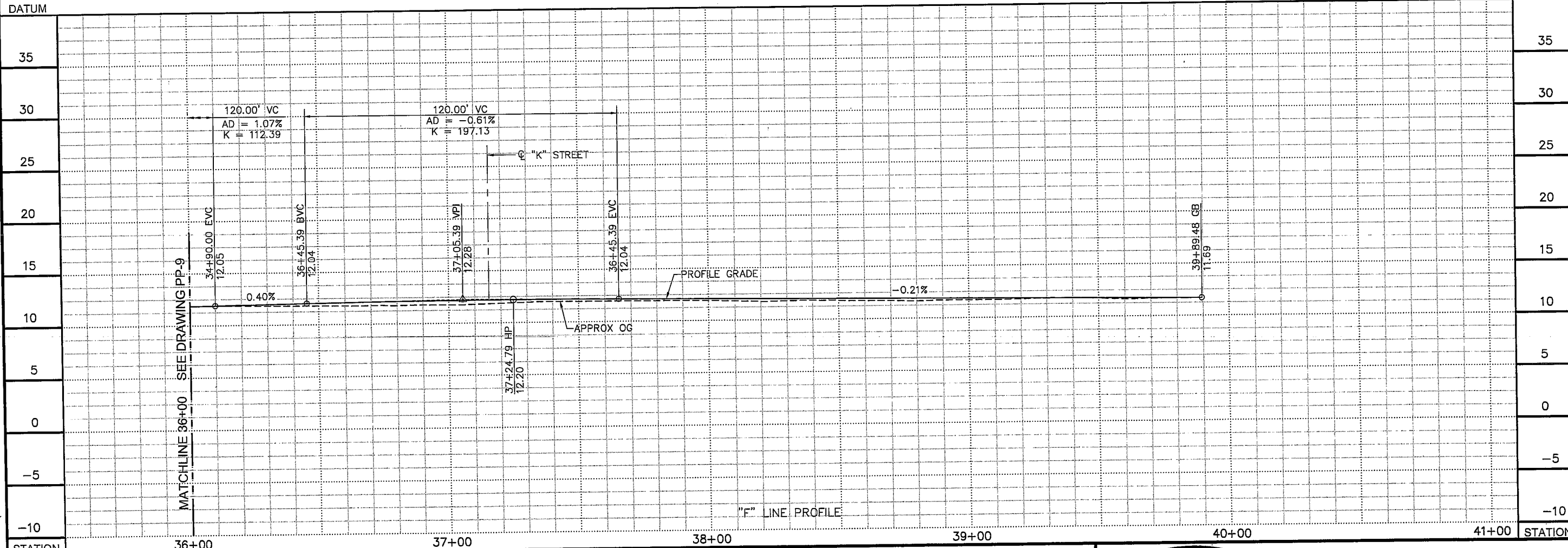
DESIGN BY	MML/DCP
DRAWN BY	DCP
CHECKED BY	HEM
DATE	July 9, 2012
SCALE	AS SHOWN
JOB NO.	11009
DRAWING NUMBER	PP-9
SHEET NUMBER	11 OF 114

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET L-4\_L-9.DWG



**NOTE:**  
 FOR KEY NOTES [X], SEE PLAN AND PROFILE DRAWING PP-1

APN 118-020-31 **SCALE**  
 HORIZ: 1" = 20'  
 VERT: 1" = 5'



FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

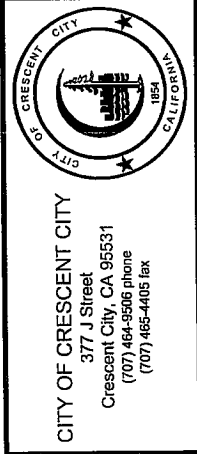
DESIGN OVERSIGHT  
 SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

QUALITY CONTROL APPROVAL  
 Q.C. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

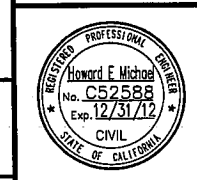
**dh drake haglan AND ASSOCIATES**  
 11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670

**FINAL SUBMITTAL - NOT FOR CONSTRUCTION**

NO.	REVISION	DCP	DATE	APP



**FRONT STREET REVITALIZATION  
 (A STREET to HIGHWAY 101 SOUTH)  
 PLAN AND PROFILE  
 STA 36+00 to STA 40+00**



DESIGN BY	MML/DCP
DRAWN BY	DCP
CHECKED BY	HEM
DATE	July 9, 2012
SCALE	AS SHOWN
JOB NO.	11009
DRAWING NUMBER	PP-10
SHEET NUMBER	12 OF 114

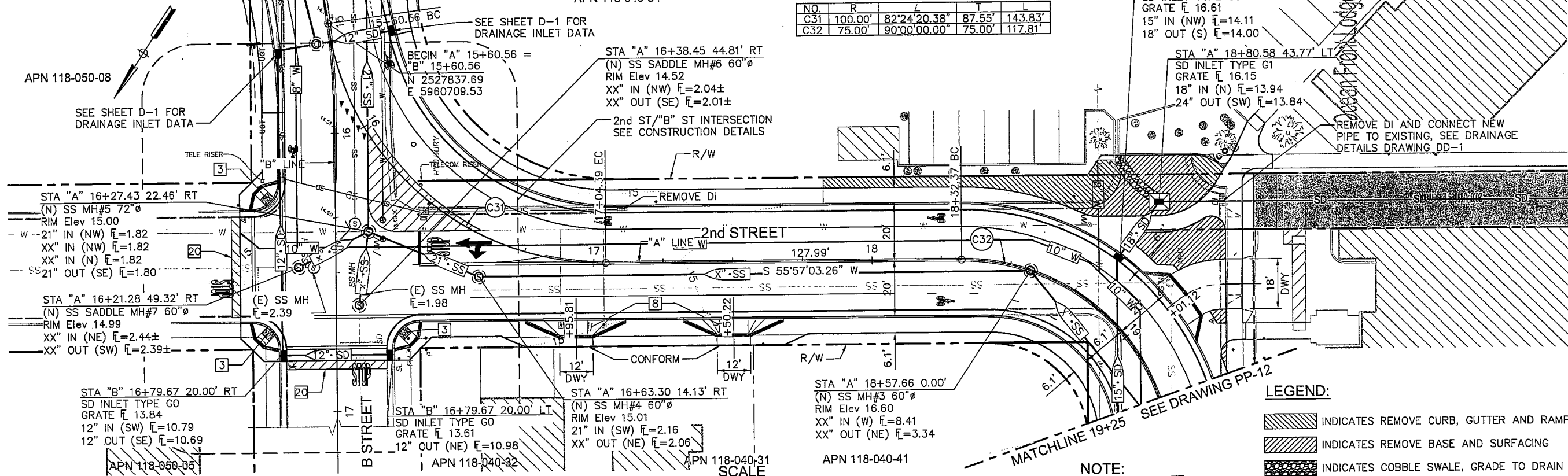
STATION 35 30 25 20 15 10 5 0 -5 -10

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET L-10\_L-11.DWG

**NOTE:**  
 FOR CONTINUATION AND DETAILS  
 NOT SHOWN, SEE DRAWING PP-3

APN 118-040-33  
**CURVE DATA TABLE**

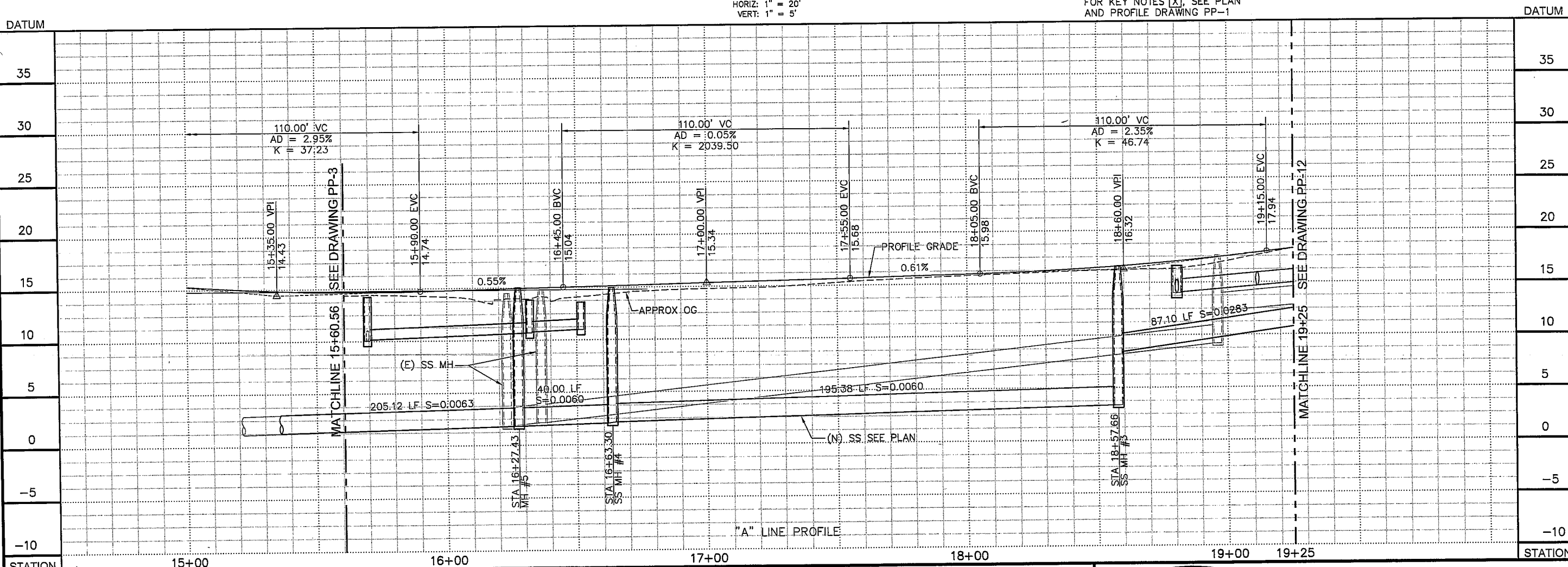
NO.	R	Δ	L	TANGENT	CHORD
C31	100.00'	82°24'20.38"	87.55'	143.83'	
C32	75.00'	90°00'00.00"	75.00'	117.81'	



**LEGEND:**

- INDICATES REMOVE CURB, GUTTER AND RAMP
- INDICATES REMOVE BASE AND SURFACING
- INDICATES COBBLE SWALE, GRADE TO DRAIN

**NOTE:**  
 FOR KEY NOTES [X], SEE PLAN  
 AND PROFILE DRAWING PP-1



**STATION** 15+00 16+00 17+00 18+00 19+00 19+25

**DESIGN OVERSIGHT** \_\_\_\_\_ **QUALITY CONTROL APPROVAL** \_\_\_\_\_

**SUPERVISION BY** \_\_\_\_\_ **R.C.E. NUMBER** \_\_\_\_\_ **SIGNATURE** \_\_\_\_\_ **DATE** \_\_\_\_\_

**FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES**

**dh drake haglan AND ASSOCIATES** 11060 White Rock Road, Suite 200 Rancho Cordova, CA 95670

**FINAL SUBMITTAL - NOT FOR CONSTRUCTION**

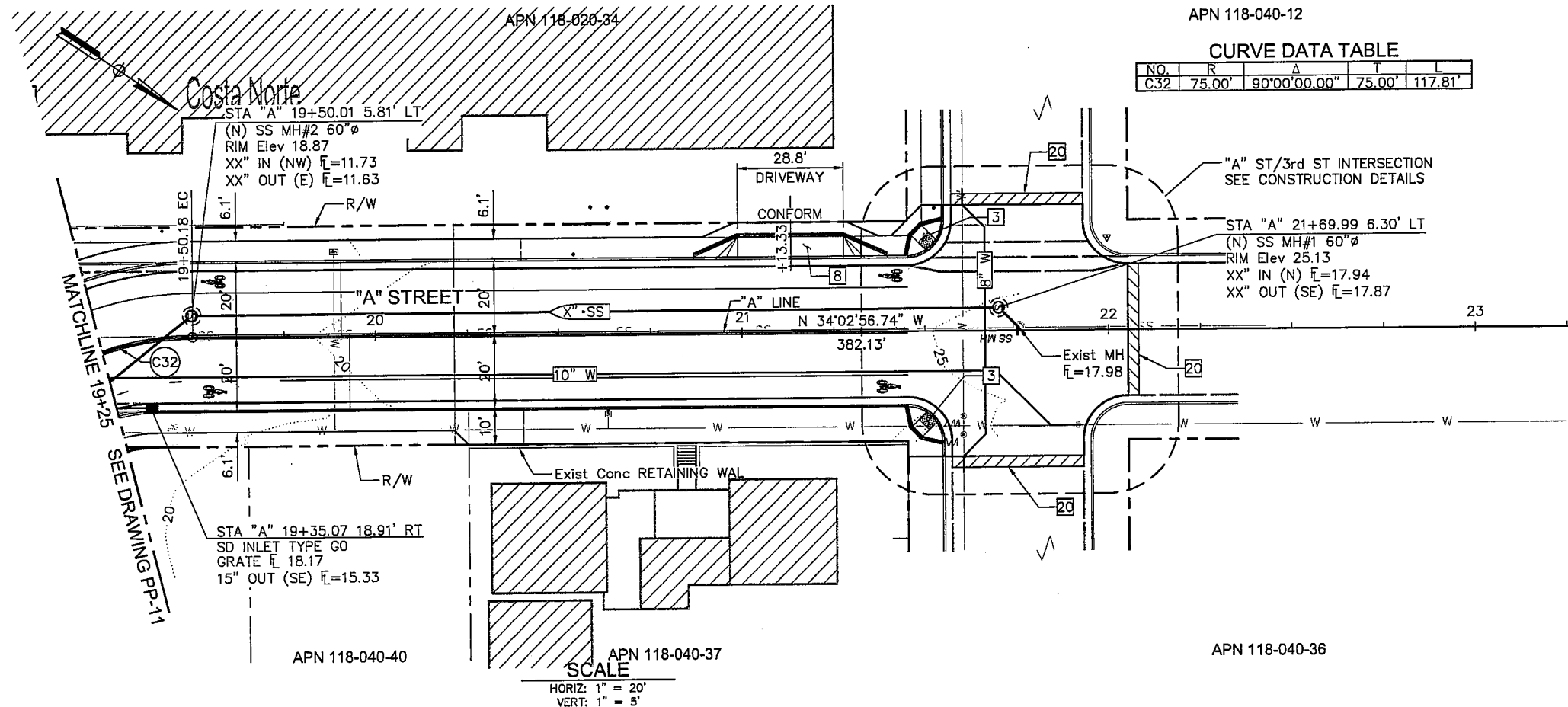
**CITY OF CRESCENT CITY**  
 317 J Street  
 Crescent City, CA 95531  
 (707) 464-9506 phone  
 (707) 465-4405 fax

**FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 PLAN AND PROFILE  
 STA 15+60.56 TO STA 19+25**

**REGISTERED PROFESSIONAL ENGINEER**  
 Howard E. Nichol  
 No. CS2588  
 Exp. 12/31/12  
 CIVIL  
 STATE OF CALIFORNIA

DESIGN BY DCP  
 DRAWN BY DCP  
 CHECKED BY HEM  
 DATE July 9, 2012  
 SCALE AS SHOWN  
 JOB NO. 11009  
 DRAWING NUMBER  
**PP-11**  
 SHEET NUMBER  
 13 OF 114

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET L-10\_L-11.DWG

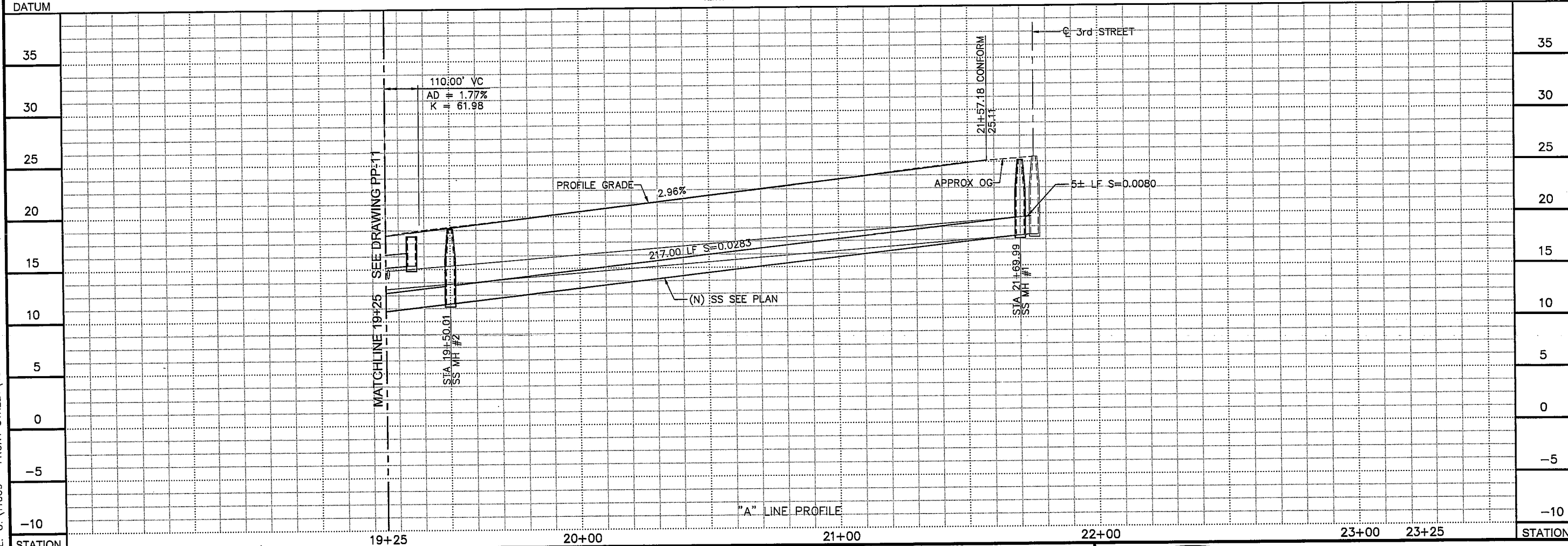


APN 118-040-12

**CURVE DATA TABLE**

NO.	R	A	L
C32	75.00'	90°00'00.00"	75.00' 117.81'

**NOTE:**  
 FOR KEY NOTES [X], SEE PLAN  
 AND PROFILE DRAWING PP-1

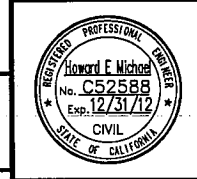


**FINAL SUBMITTAL - NOT FOR CONSTRUCTION**

NO.	REVISION	DCP	DATE	APP

**CITY OF CRESCENT CITY**  
 377 J Street  
 Crescent City, CA 95531  
 (707) 464-8600 phone  
 (707) 465-4400 fax

**FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 PLAN AND PROFILE  
 STA 19+25 to STA 21+75.18**



DESIGN BY	DCP
DRAWN BY	DCP
CHECKED BY	HEM
DATE	July 9, 2012
SCALE	AS SHOWN
JOB NO.	11009
DRAWING NUMBER	PP-12
SHEET NUMBER	14 OF 114

NO.	REVISION	DCP	DATE	APP



CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 464-9506 phone  
 (707) 466-4405 fax

FRONT STREET REVITALIZATION  
 (A STREET to HIGHWAY 101 SOUTH)  
 SUPPLEMENTAL PROFILES

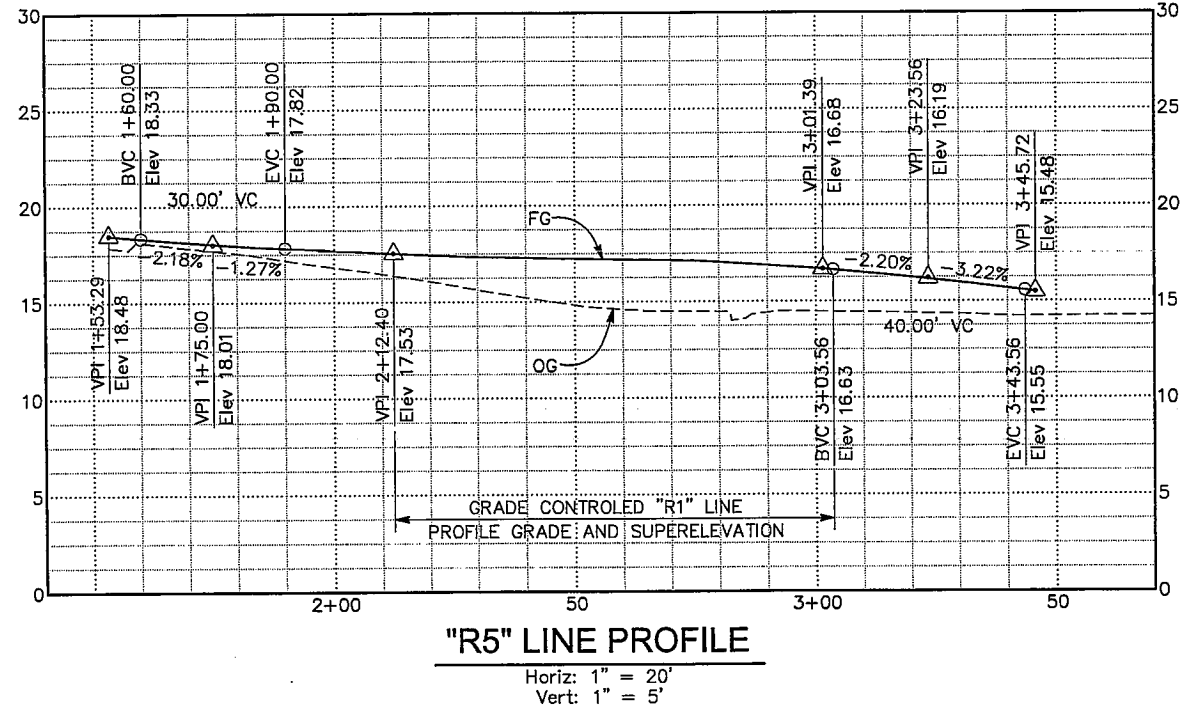
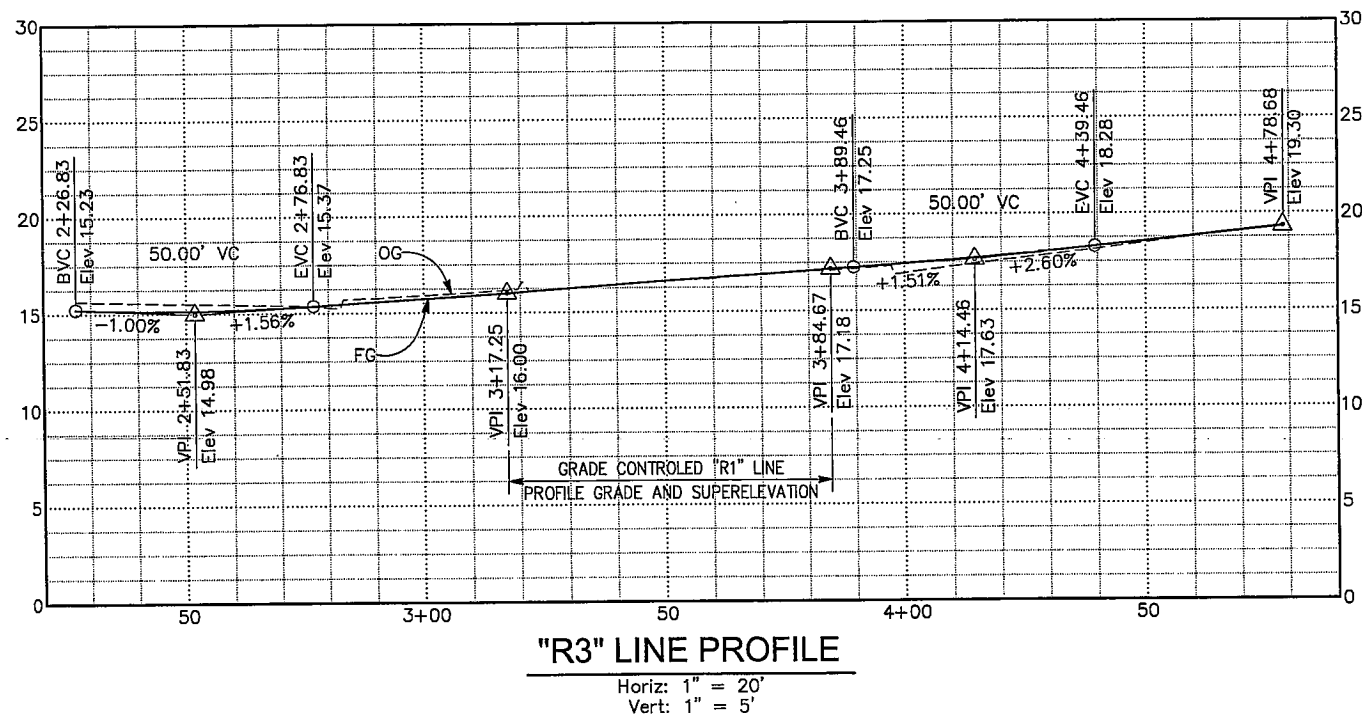
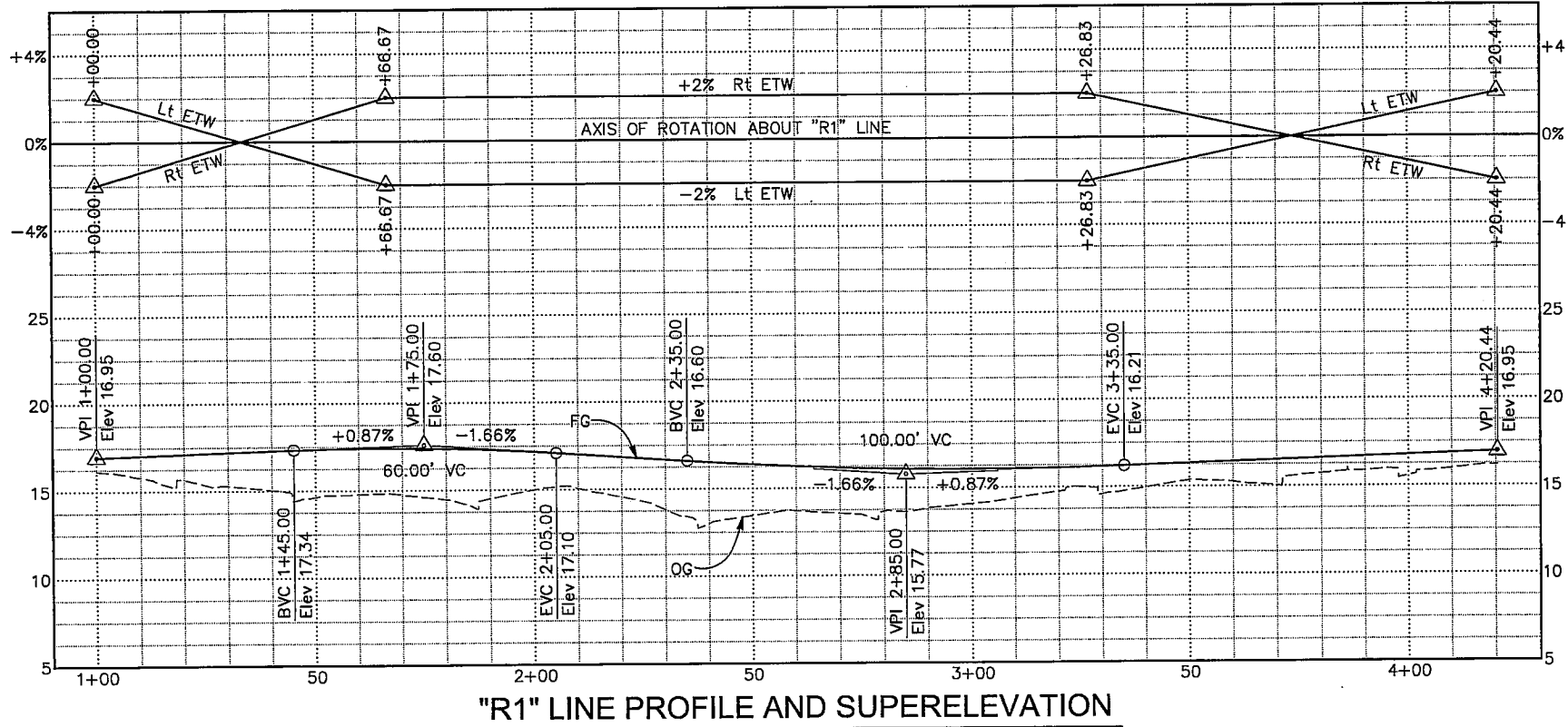


DESIGN BY REU  
 DRAWN BY REU  
 CHECKED BY HEM  
 DATE July 9, 2012  
 SCALE AS SHOWN  
 JOB NO. 11009

DRAWING NUMBER

SP-1

SHEET NUMBER



PLOT BY: RICHARD PLOT DATE: \$DATE\$  
 FILE NAME: \$FILEL\$

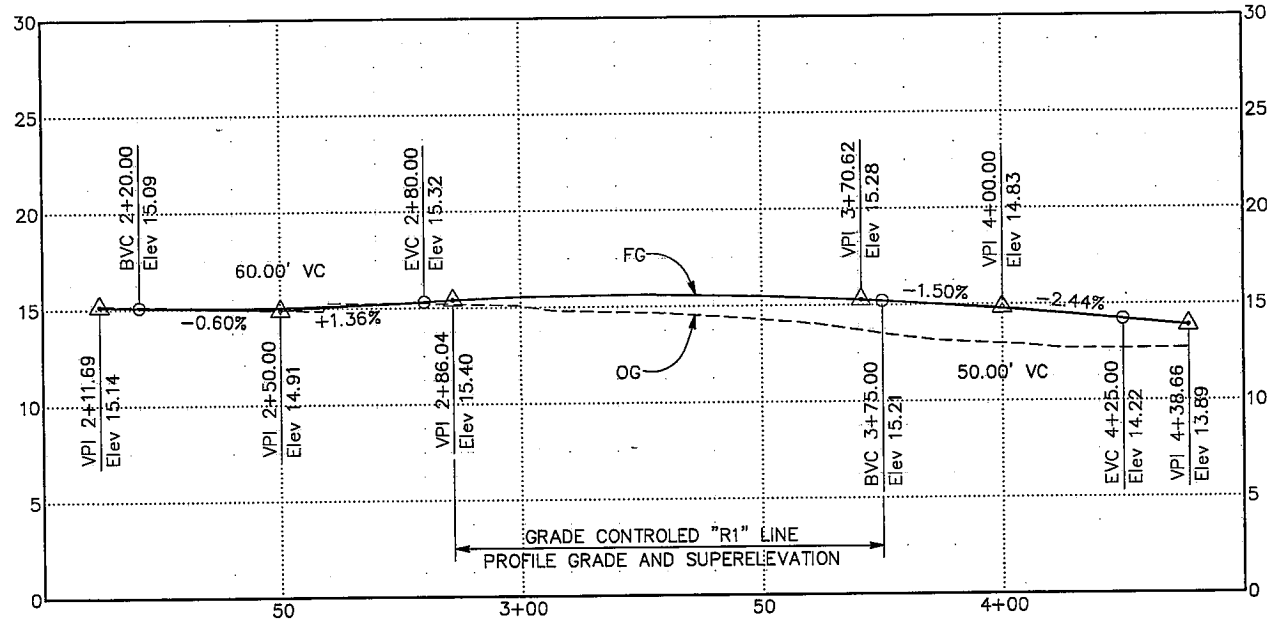
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

DESIGN OVERSIGHT  
 SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

QUALITY CONTROL APPROVAL  
 Q.C. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

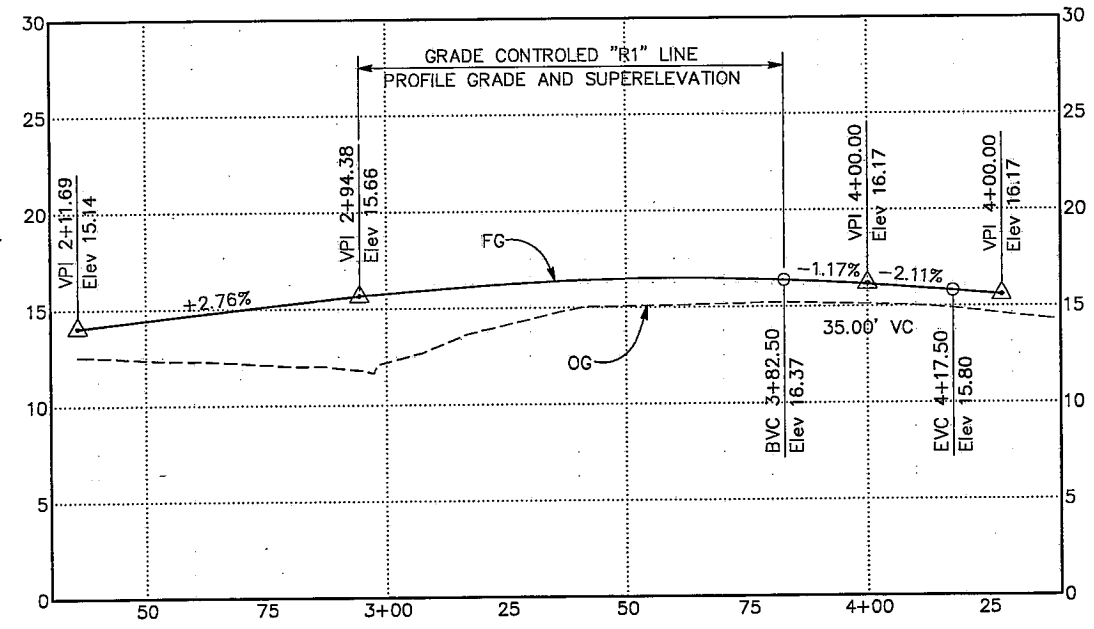
**dh drake haglan AND ASSOCIATES**  
 11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670  
 15 OF 111





"R8" LINE PROFILE

Horiz: 1" = 20'  
Vert: 1" = 5'



"R11" LINE PROFILE

Horiz: 1" = 20'  
Vert: 1" = 5'

FINAL SUBMITTAL - NOT FOR CONSTRUCTION

NO.	REVISION	DCP	DATE	APP.



CITY OF CRESCENT CITY  
377 J Street  
Crescent City, CA 95531  
(707) 464-9506 phone  
(707) 465-4405 fax

FRONT STREET REVITALIZATION  
(A STREET TO HIGHWAY 101 SOUTH)  
SUPPLEMENTAL PROFILES

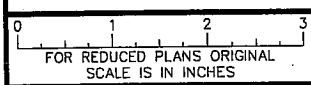


DESIGN BY REU  
DRAWN BY REU  
CHECKED BY HEM  
DATE July 9, 2012  
SCALE AS SHOWN  
JOB NO. 11009

DRAWING NUMBER  
**SP-2**

SHEET NUMBER  
16 OF 111

PLOT BY: RICHARD PLOT DATE: \$DATE\$  
FILE NAME: \$FILEL\$

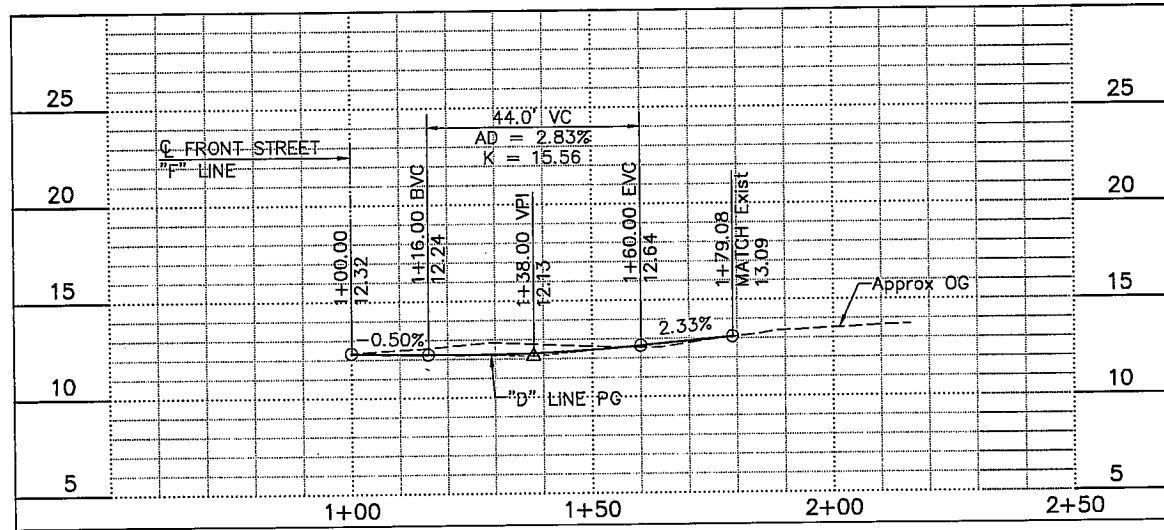


DESIGN OVERSIGHT  
SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

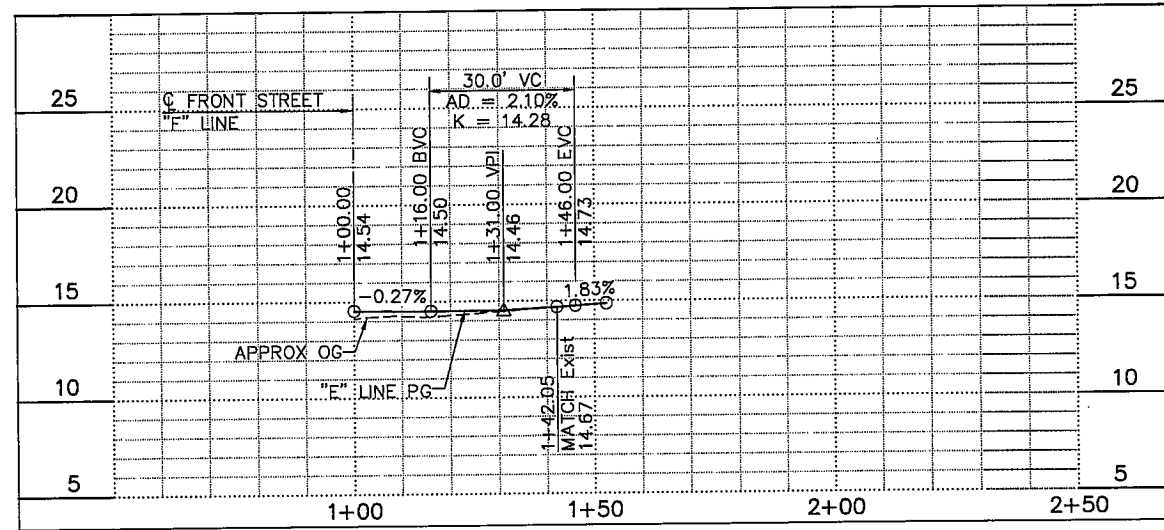
QUALITY CONTROL APPROVAL  
Q.C. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**dh drake haglan AND ASSOCIATES**  
11060 White Rock Road, Suite 200  
Rancho Cordova, CA 95670

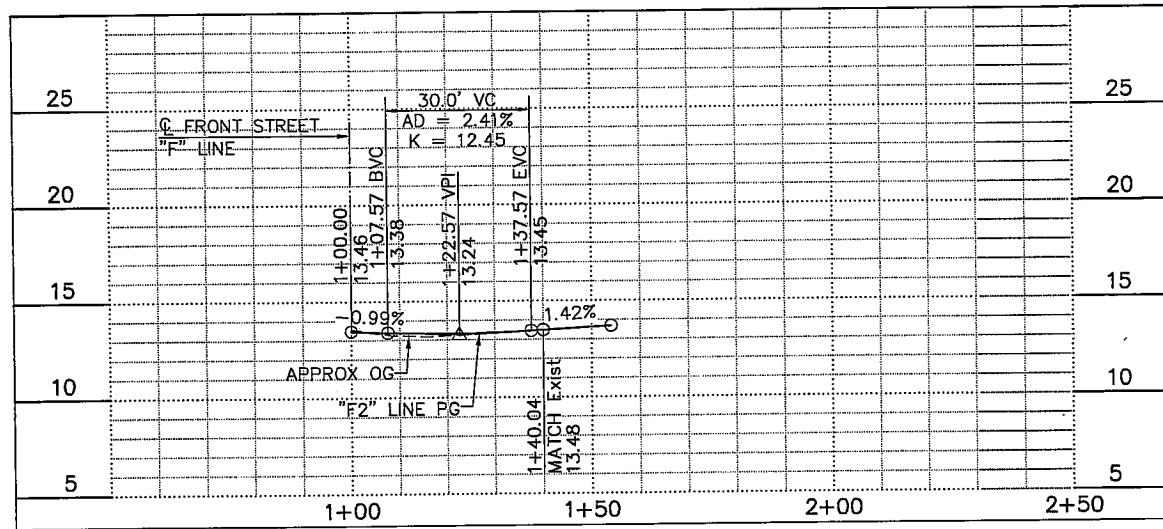
PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\FRONT STREET P-3\_P-4.DWG



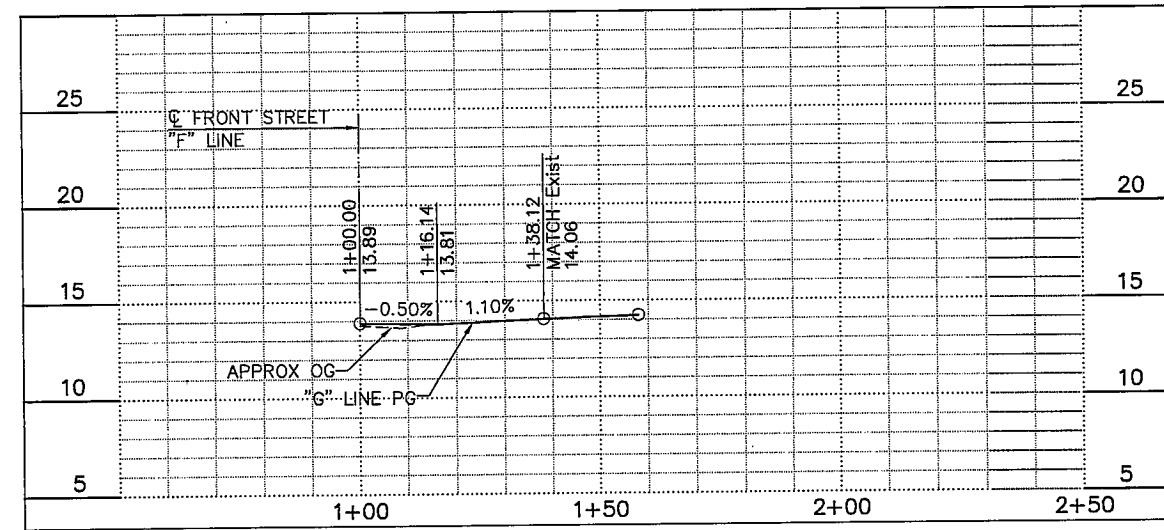
**"D" LINE PROFILE**  
 HORIZ: 1" = 20'  
 VERT: 1" = 5'



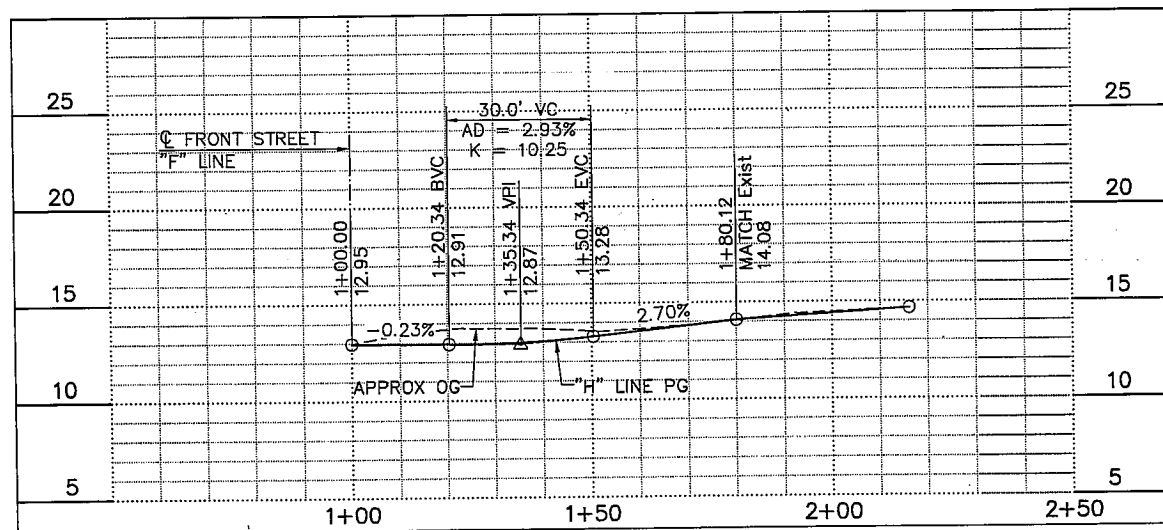
**"E" LINE PROFILE**  
 HORIZ: 1" = 20'  
 VERT: 1" = 5'



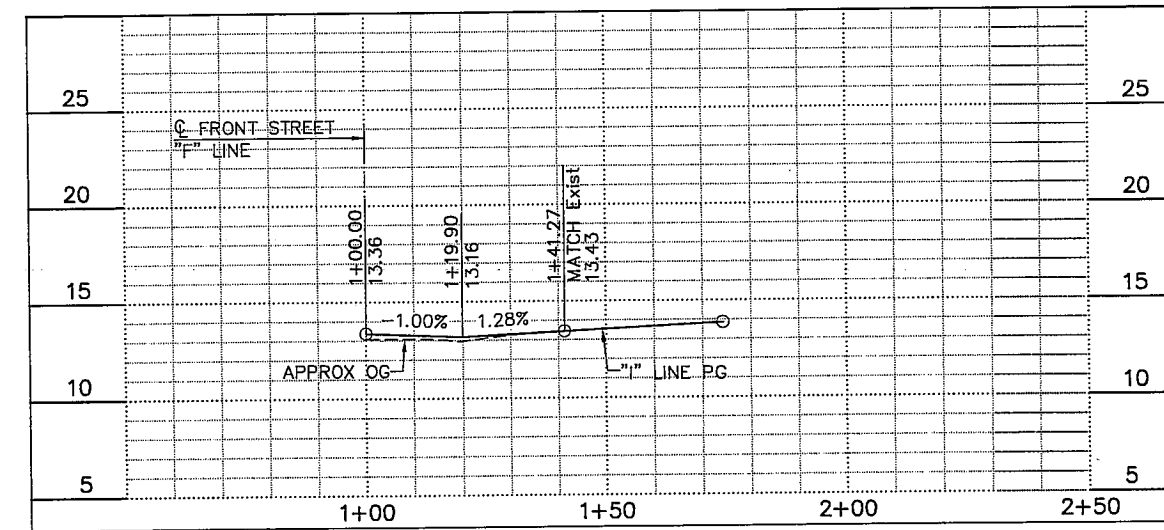
**"F2" LINE PROFILE**  
 HORIZ: 1" = 20'  
 VERT: 1" = 5'



**"G" LINE PROFILE**  
 HORIZ: 1" = 20'  
 VERT: 1" = 5'



**"H" LINE PROFILE**  
 HORIZ: 1" = 20'  
 VERT: 1" = 5'



**"I" LINE PROFILE**  
 HORIZ: 1" = 20'  
 VERT: 1" = 5'

FINAL SUBMITTAL - NOT FOR CONSTRUCTION

NO.	REVISION	DCP	DATE	APP



CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 464-9506 phone  
 (707) 465-4405 fax

FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 SUPPLEMENTAL PROFILES

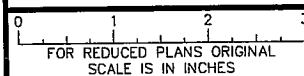
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DRAWN BY	DCP
CHECKED BY	HEM
DATE	July 9, 2012
SCALE	AS SHOWN
JOB NO.	11009

DRAWING NUMBER

SP-3

SHEET NUMBER

17 OF 114

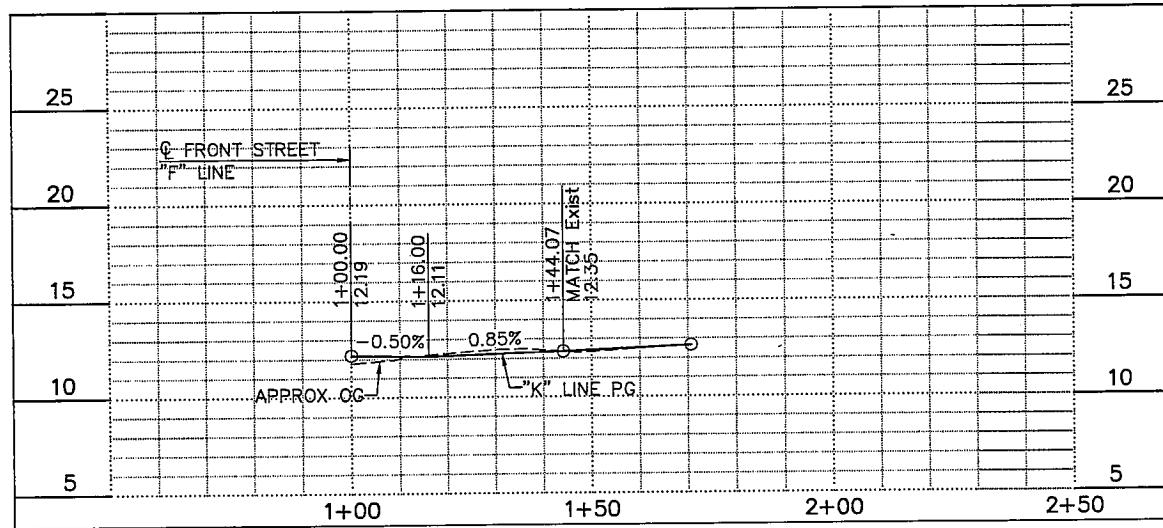


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SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE

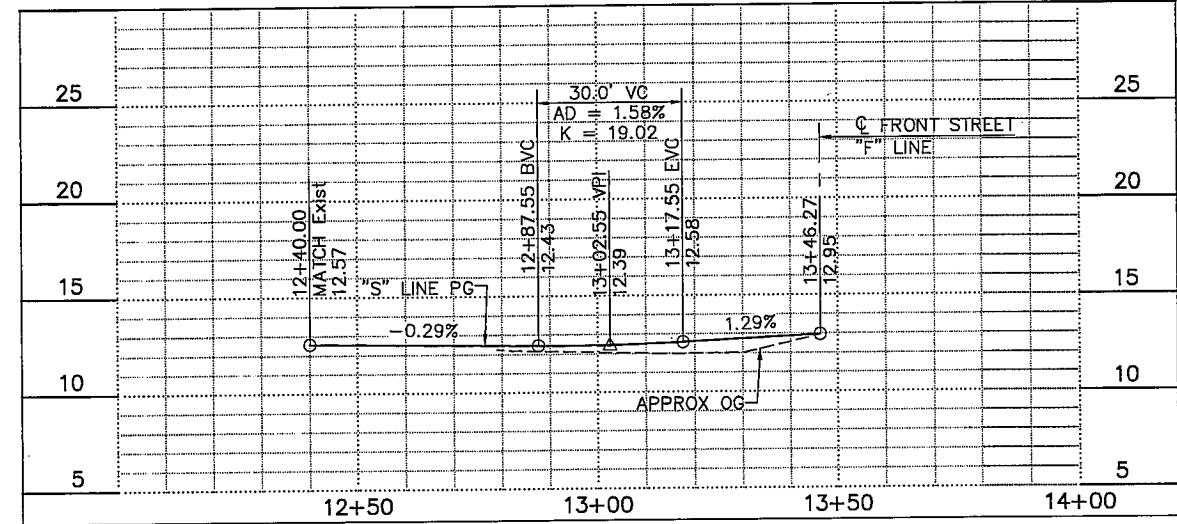
QUALITY CONTROL APPROVAL			
Q.C. REVIEW BY	R.C.E. NUMBER	SIGNATURE	DATE

**dh drake haglan AND ASSOCIATES**  
 11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670

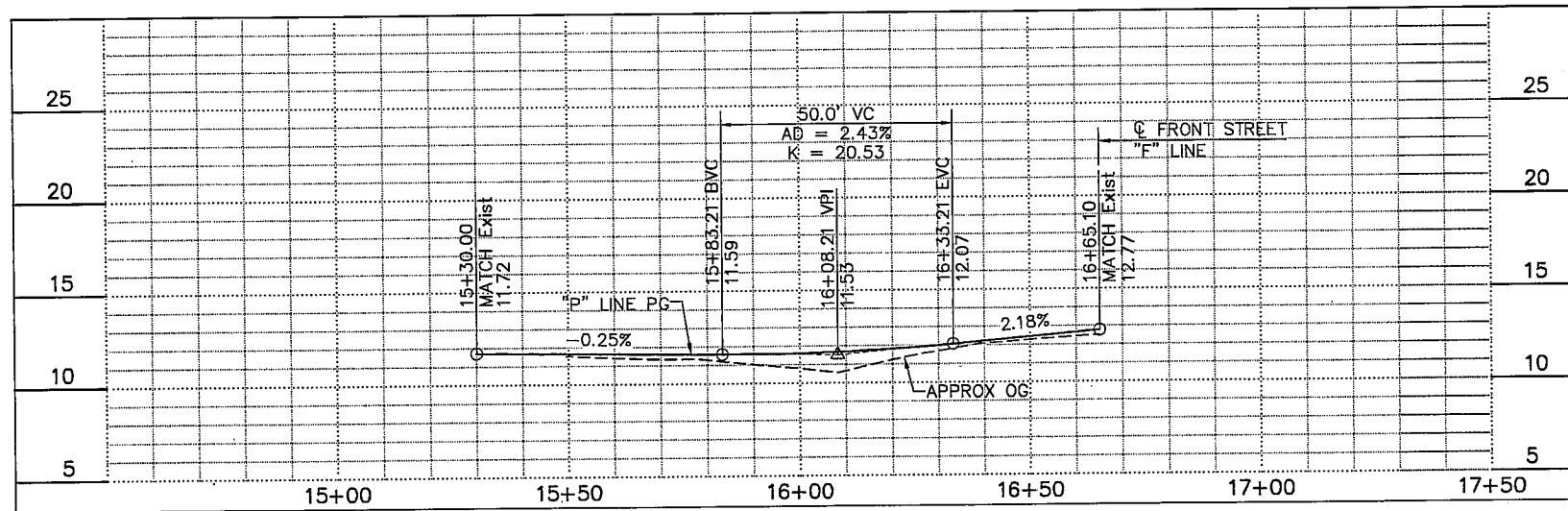
PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET P-3\_P-4.DWG



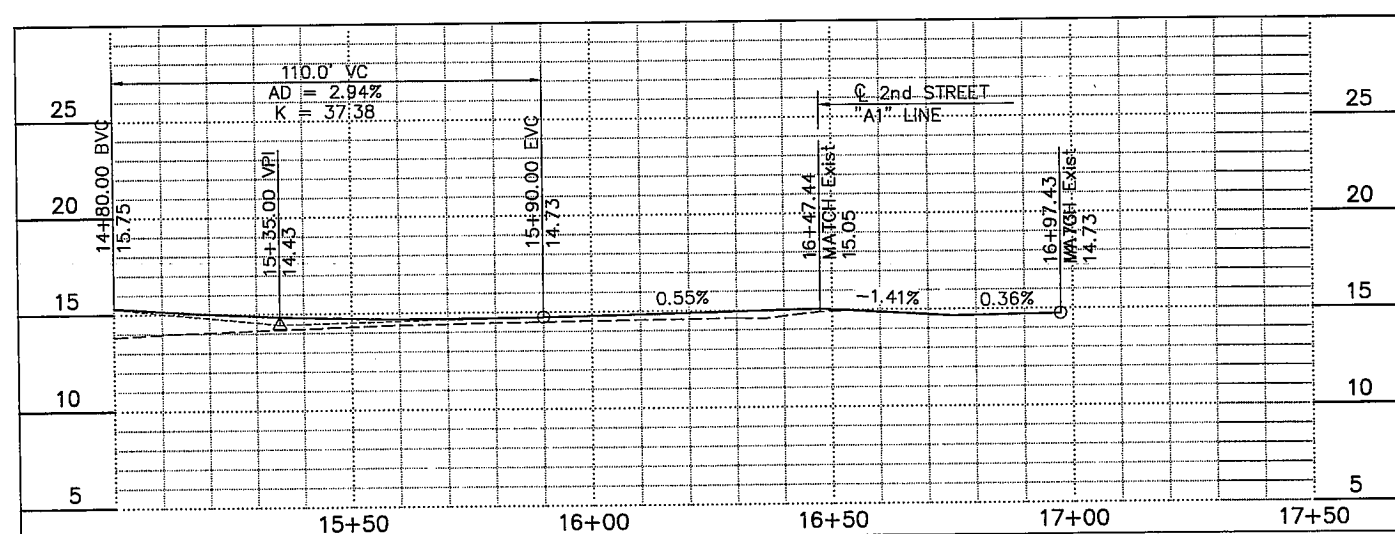
**"K" LINE PROFILE**  
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 VERT: 1" = 5'



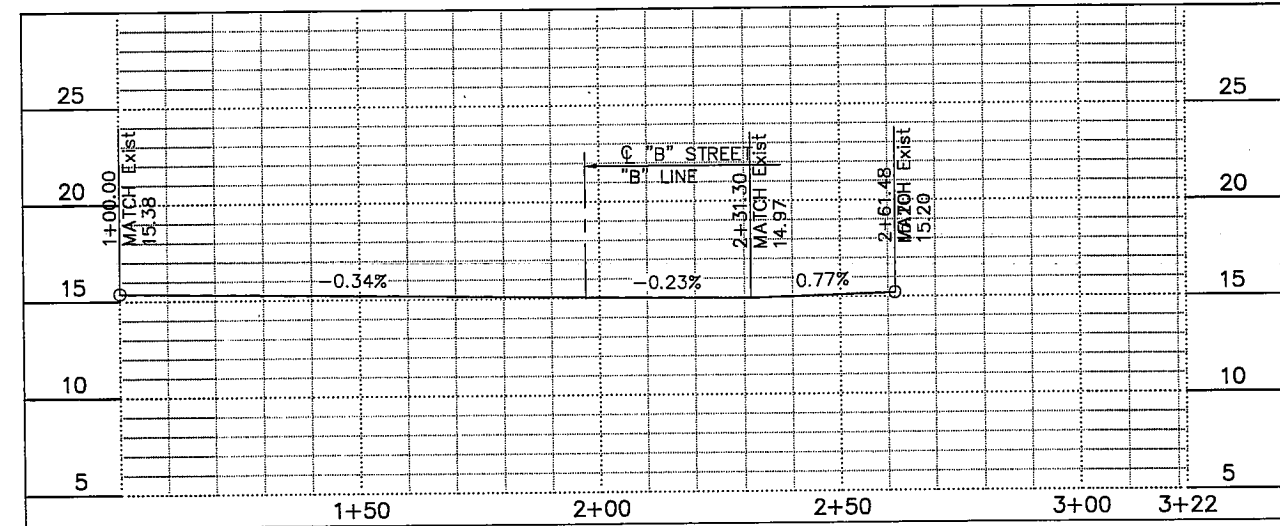
**"S" LINE PROFILE**  
 HORIZ: 1" = 20'  
 VERT: 1" = 5'



**"P" LINE PROFILE**  
 HORIZ: 1" = 20'  
 VERT: 1" = 5'



**"B" LINE PROFILE**  
 HORIZ: 1" = 20'  
 VERT: 1" = 5'



**"A1" LINE PROFILE**  
 HORIZ: 1" = 20'  
 VERT: 1" = 5'

FINAL SUBMITTAL - NOT FOR CONSTRUCTION

NO.	REVISION	DCP	DATE	APP



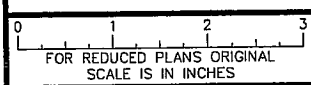
CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 464-9506 phone  
 (707) 465-4405 fax

FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 SUPPLEMENTAL PROFILES

DESIGN BY DCP  
 DRAWN BY DCP  
 CHECKED BY HEM  
 DATE July 9, 2012  
 SCALE AS SHOWN  
 JOB NO. 11009

DRAWING NUMBER  
**SP-4**  
 SHEET NUMBER

18 of 114



DESIGN OVERSIGHT  
 SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

QUALITY CONTROL APPROVAL  
 Q.C. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

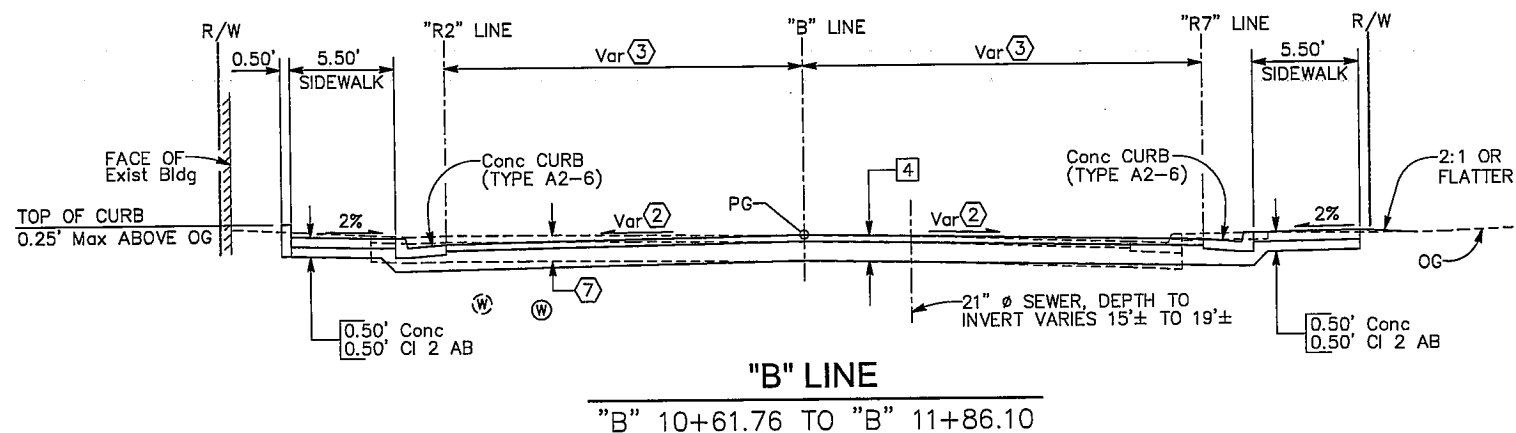
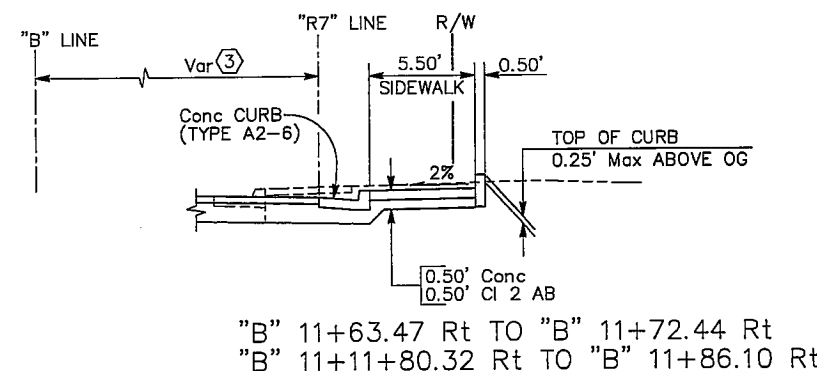
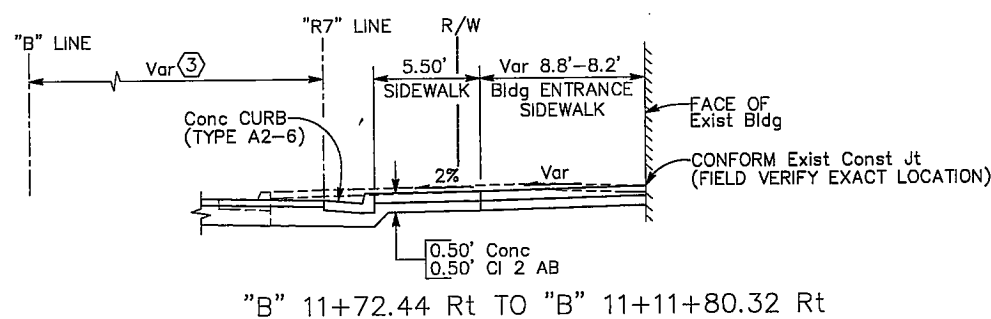
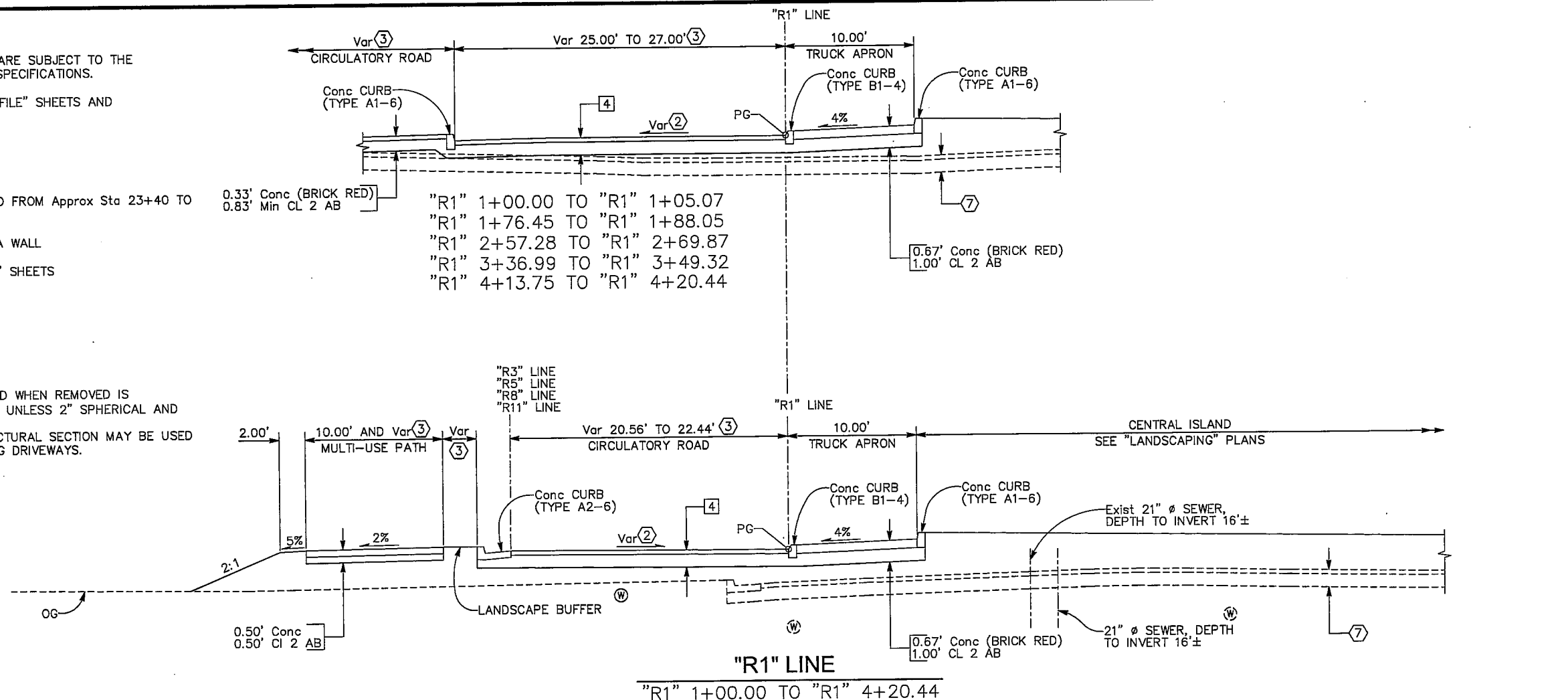
**dh drake haglan AND ASSOCIATES**  
 11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670

**NOTES:**

- ① DIMENSIONS OF THE STRUCTURAL SECTION ARE SUBJECT TO THE TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
- ② FOR VARYING WIDTHS, SEE "PLAN AND PROFILE" SHEETS AND "CONSTRUCTION DETAILS" SHEETS
- ③ NEW STRUCTURAL SECTION  
0.33' HMA (TYPE A)  
0.67' CLASS 2 AB
- ④ EXISTING TIMBER SEA WALL TO BE REMOVED FROM Approx Sta 23+40 TO Sta 36+00
- ⑤ REMOVE UPPER 24"-48" OF CONCRETE SEA WALL
- ⑥ REMOVE WOOD LOG, SEE "PLAN & PROFILE" SHEETS
- ⑦ EXISTING STRUCTURAL SECTION  
0.17'-0.33'± AC  
0.33'-0.83'± AB  
SEE GEOTECH REPORT
- ⑧ COMPACTED SUB-BASE
- ⑨ STRUCTURAL SECTION CONTAINS ROOTS AND WHEN REMOVED IS UNSUITABLE FOR REUSE IN NEW ROAD BED UNLESS 2" SPHERICAL AND LARGER ORGANICS ARE SCREENED OUT. USE OF ORGANIC LADEN PROCESSED STRUCTURAL SECTION MAY BE USED AS BASE IN HARDSCAPE AREAS, EXCLUDING DRIVEWAYS.

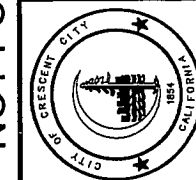
**DESIGN DESIGNATION:**

DESIGN SPEED = 30 MPH  
 TI = 8  
 SAND SUBGRADE R VALUE = 6@



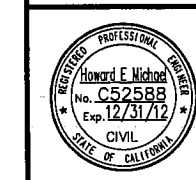
FINAL SUBMITTAL - NOT FOR CONSTRUCTION

NO.	REVISION	DCP	DATE	APP



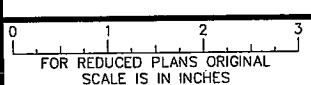
CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 464-9506 phone  
 (707) 465-4405 fax

FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 TYPICAL SECTIONS



DESIGN BY	REU
DRAWN BY	REU
CHECKED BY	HEM
DATE	July 9, 2012
SCALE	NO SCALE
JOB NO.	11009
DRAWING NUMBER	X-1
SHEET NUMBER	19 of 111

PLOT BY: RICHARD PLOT DATE: \$DATE\$ FILE NAME: \$FILE\$



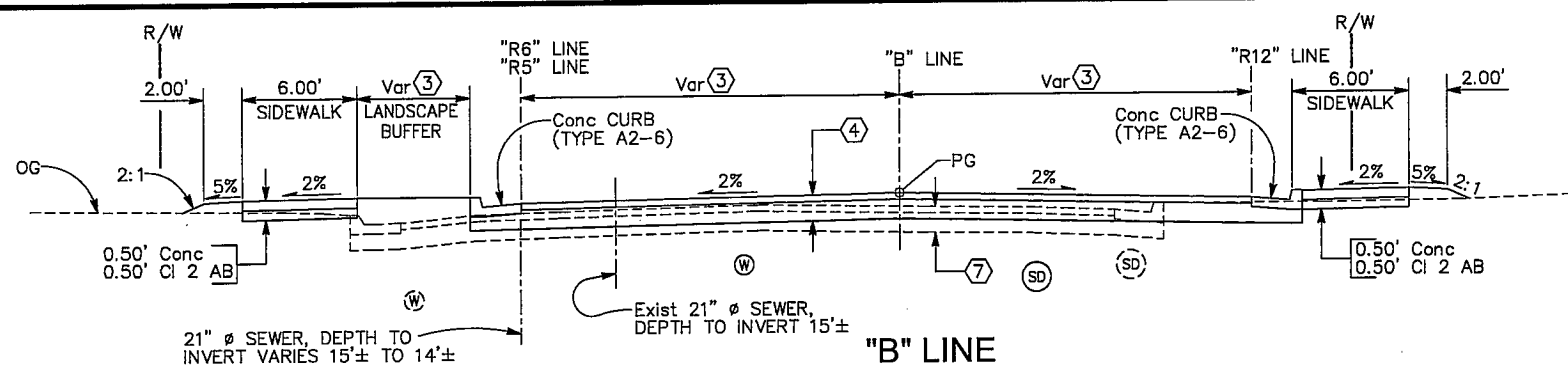
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 SUPERVISION BY \_\_\_\_\_ SUPER RCE \_\_\_\_\_ DATE \_\_\_\_\_  
 SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_

QUALITY CONTROL APPROVAL  
 QCERS RCE \_\_\_\_\_ DATE \_\_\_\_\_  
 Q.C. REVIEW BY \_\_\_\_\_ SIGNATURE \_\_\_\_\_

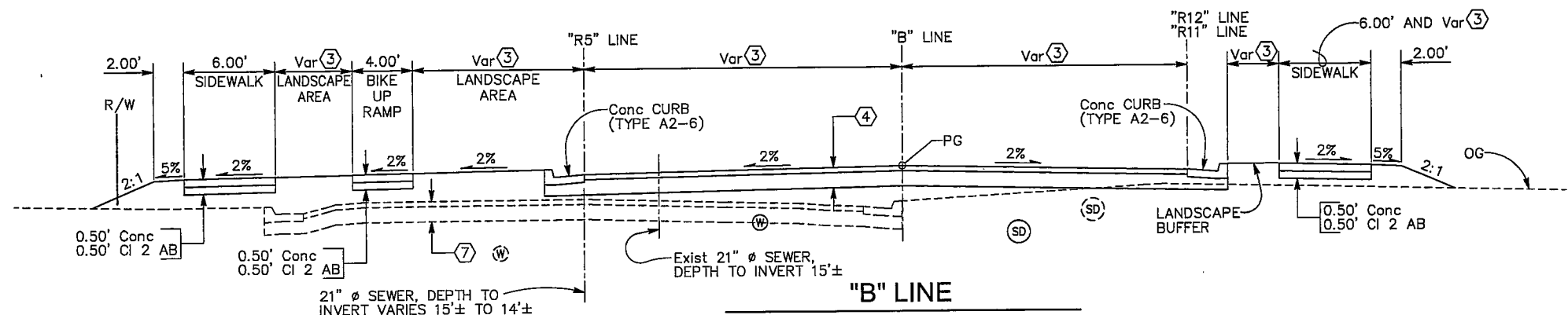
**dh drake haglan AND ASSOCIATES**  
 11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670

**NOTES:**

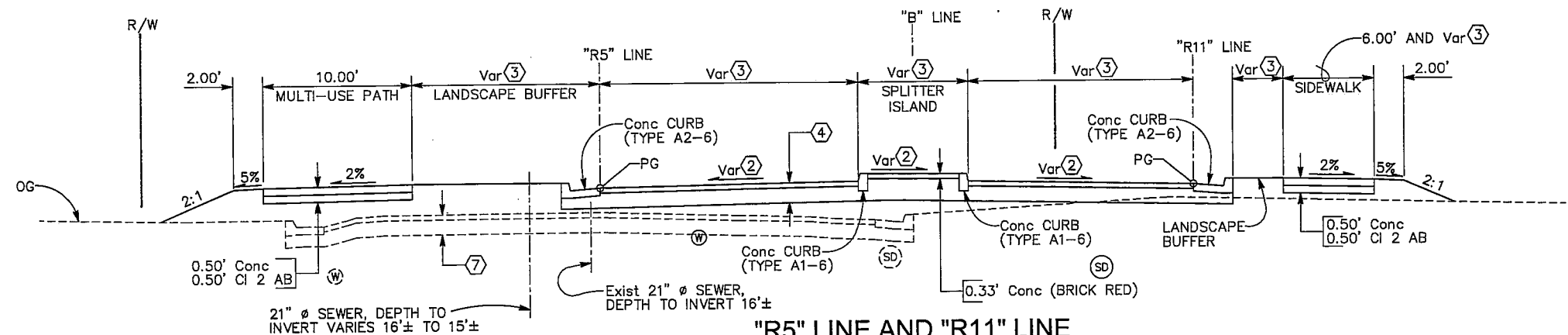
- ① DIMENSIONS OF THE STRUCTURAL SECTION ARE SUBJECT TO THE TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
- ② FOR VARYING WIDTHS, SEE "PLAN AND PROFILE" SHEETS AND "CONSTRUCTION DETAILS" SHEETS
- ③ NEW STRUCTURAL SECTION  
0.33' HMA (TYPE A)  
0.67' CLASS 2 AB
- ④ EXISTING TIMBER SEA WALL TO BE REMOVED FROM Approx Sta 23+40 TO Sta 36+00
- ⑤ REMOVE UPPER 24"-48" OF CONCRETE SEA WALL
- ⑥ REMOVE WOOD LOG, SEE "PLAN & PROFILE" SHEETS
- ⑦ EXISTING STRUCTURAL SECTION  
0.17'-0.33'± AC  
0.33'-0.83'± AB  
SEE GEOTECH REPORT
- ⑧ COMPACTED SUB-BASE
- ⑨ STRUCTURAL SECTION CONTAINS ROOTS AND WHEN REMOVED IS UNSUITABLE FOR REUSE IN NEW ROAD BED UNLESS 2" SPHERICAL AND LARGER ORGANICS ARE SCREENED OUT. USE OF ORGANIC LADEN PROCESSED STRUCTURAL SECTION MAY BE USED AS BASE IN HARDSCAPE AREAS, EXCLUDING DRIVEWAYS.



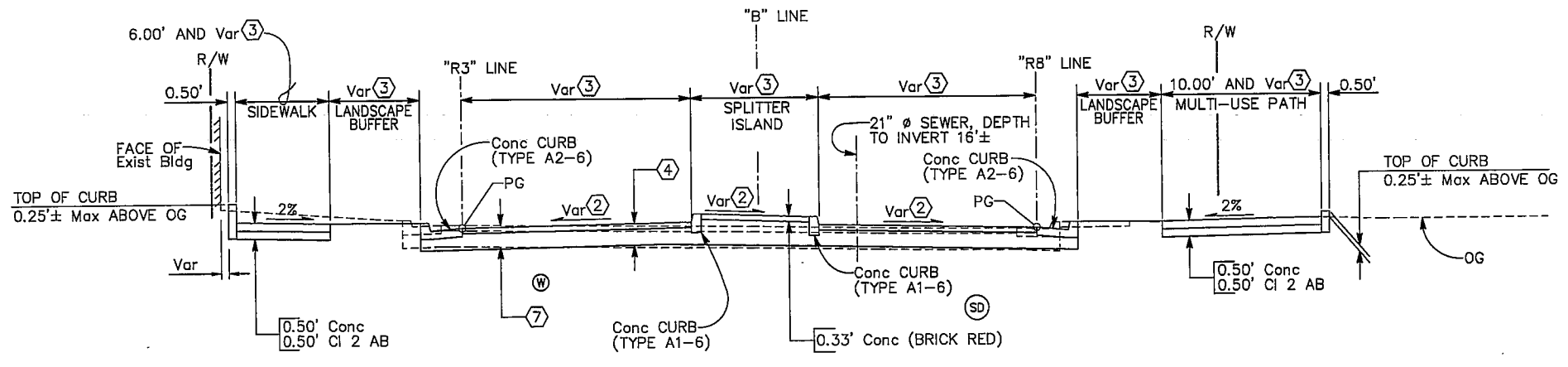
**"B" LINE**  
"B" 15+08.71 TO "B" 15+92.44



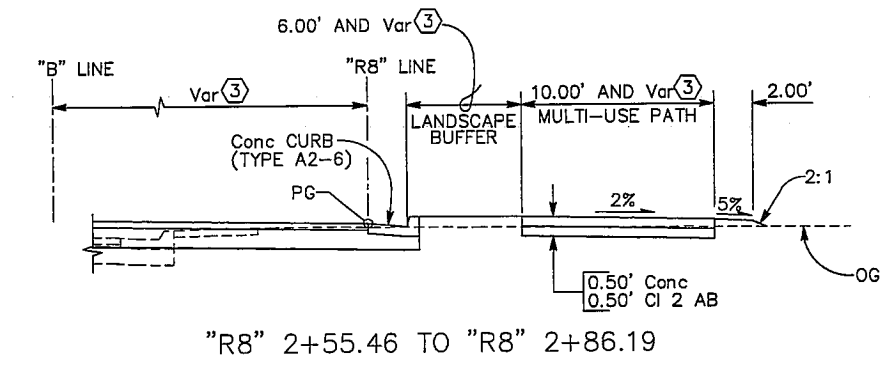
**"B" LINE**  
"B" 14+73.41 TO "B" 15+08.71



**"R5" LINE AND "R11" LINE**  
"R5" 3+01.21 TO "R5" 3+25.30  
"R11" 3+80.87 TO "R11" 3+98.60



**"R3" LINE AND "R8" LINE**  
"R3" 2+26.83 TO "R3" 3+04.55  
"R8" 2+11.69 TO "R8" 2+55.46



**"R8" LINE**  
"R8" 2+55.46 TO "R8" 2+86.19

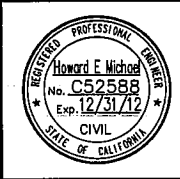
FINAL SUBMITTAL - NOT FOR CONSTRUCTION

NO.	REVISION	DATE	APP.



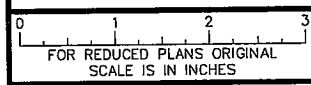
CITY OF CRESCENT CITY  
377 J Street  
Crescent City, CA 95531  
(707) 464-9506 phone  
(707) 465-4405 fax

FRONT STREET REVITALIZATION  
(A STREET TO HIGHWAY 101 SOUTH)  
TYPICAL SECTIONS



DESIGN BY	REU
DRAWN BY	REU
CHECKED BY	HEM
DATE	July 4, 2012
SCALE	NO SCALE
JOB NO.	11009
DRAWING NUMBER	X-2
SHEET NUMBER	20 OF 111

PLOT BY: RICHARD PLOT DATE: \$DATE\$ FILE NAME: \$FILE\$. \$



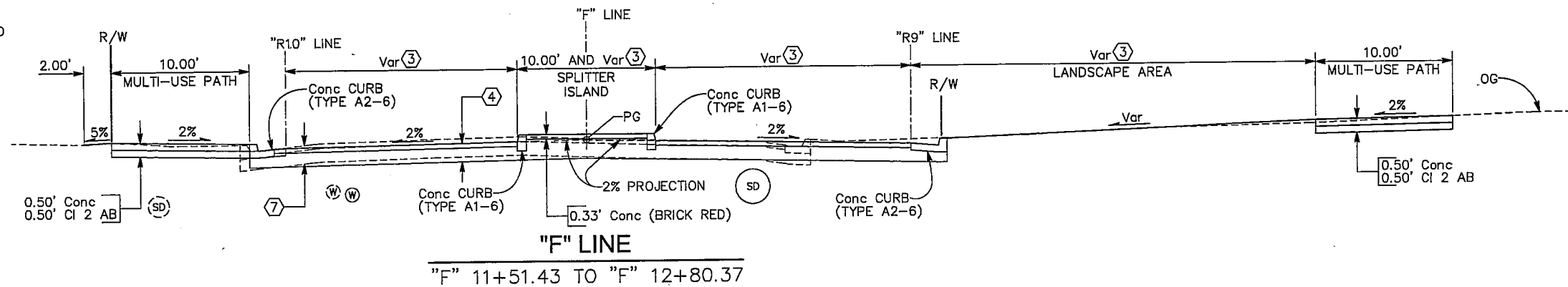
DESIGN OVERSIGHT		QUALITY CONTROL APPROVAL	
SUPERVISION BY	SIGNATURE	Q.C. REVIEW BY	SIGNATURE
R.C.E. NUMBER	DATE	R.C.E. NUMBER	DATE

**dh drake haglan AND ASSOCIATES**  
11060 White Rock Road, Suite 200  
Rancho Cordova, CA 95670

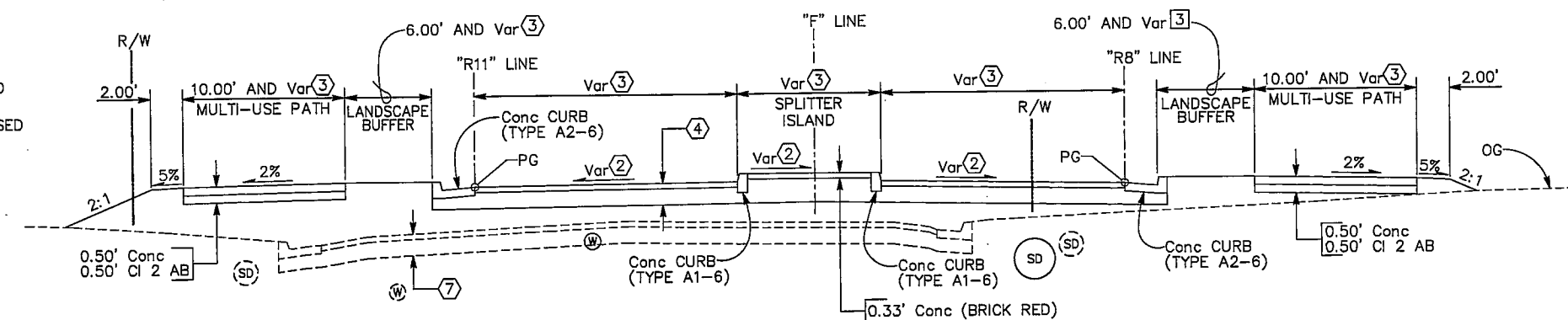
**NOTES:**

- ① DIMENSIONS OF THE STRUCTURAL SECTION ARE SUBJECT TO THE TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
- ② FOR VARYING WIDTHS, SEE "PLAN AND PROFILE" SHEETS AND "CONSTRUCTION DETAILS" SHEETS
- ③ NEW STRUCTURAL SECTION  
0.33' HMA (TYPE A)  
0.67' CLASS 2 AB
- ④ EXISTING TIMBER SEA WALL TO BE REMOVED FROM APPROX STA 23+40 TO STA 36+00
- ⑤ REMOVE UPPER 24"-48" OF CONCRETE SEA WALL
- ⑥ REMOVE WOOD LOG, SEE "PLAN & PROFILE" SHEETS
- ⑦ EXISTING STRUCTURAL SECTION  
0.17'-0.33'± AC  
0.33'-0.83'± AB  
SEE GEOTECH REPORT
- ⑧ COMPACTED SUB-BASE

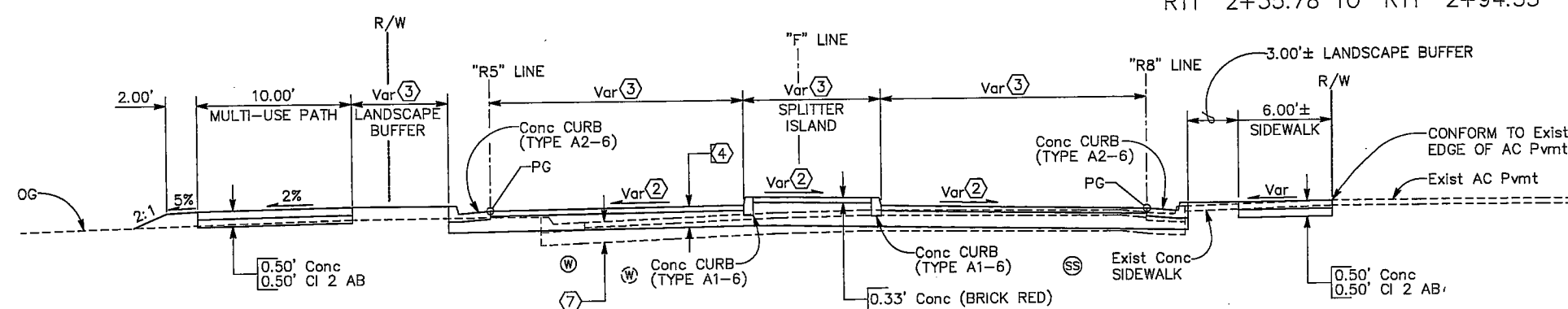
STRUCTURAL SECTION CONTAINS ROOTS AND WHEN REMOVED IS UNSUITABLE FOR REUSE IN NEW ROAD BED UNLESS 2" SPHERICAL AND LARGER ORGANICS ARE SCREENED OUT. USE OF ORGANIC LADEN PROCESSED STRUCTURAL SECTION MAY BE USED AS BASE IN HARDSCAPE AREAS, EXCLUDING DRIVEWAYS.



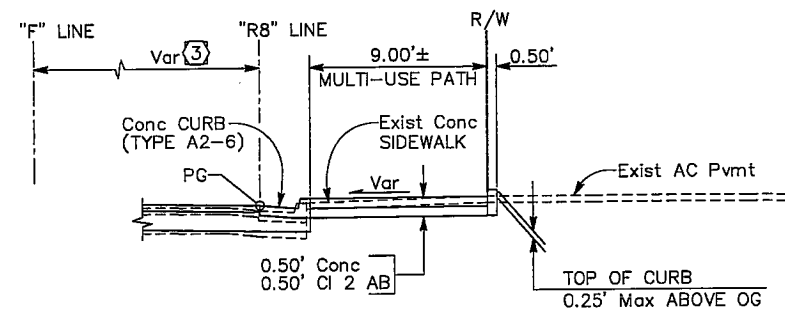
**"F" LINE**  
"F" 11+51.43 TO "F" 12+80.37



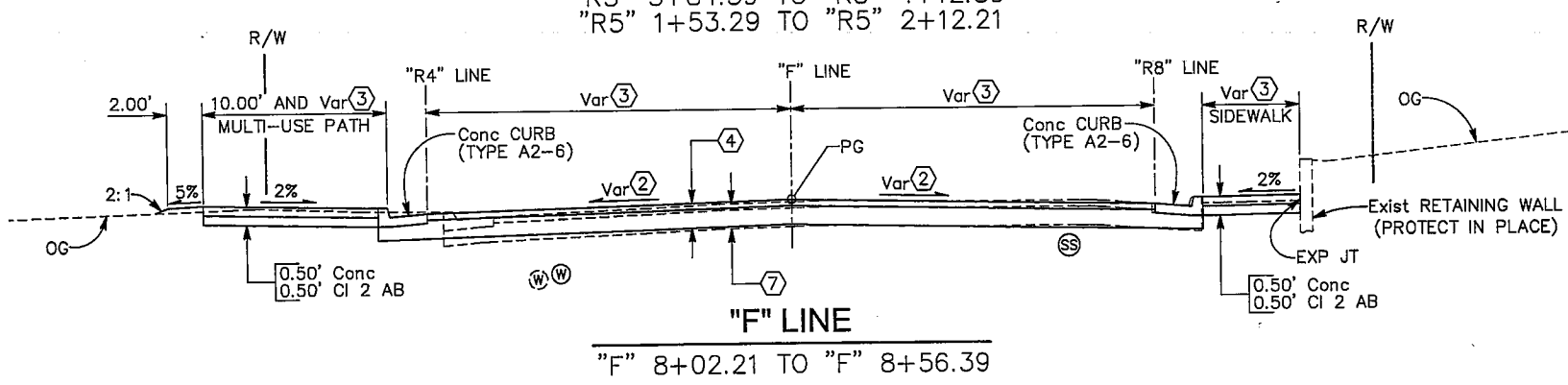
**"R11" LINE AND "R8" LINE**  
"R8" 3+70.95 TO "R8" 4+38.66  
"R11" 2+35.78 TO "R11" 2+94.53



**"R5" LINE AND "R3" LINE**  
"R3" 3+84.59 TO "R3" 4+12.89  
"R5" 1+53.29 TO "R5" 2+12.21



**"R3" LINE**  
"R3" 4+12.89 TO "R3" 4+45.33



**"F" LINE**  
"F" 8+02.21 TO "F" 8+56.39

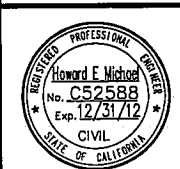
FINAL SUBMITTAL - NOT FOR CONSTRUCTION

NO.	REVISION	DATE	APP.



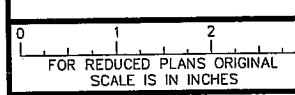
CITY OF CRESCENT CITY  
377 J Street  
Crescent City, CA 95531  
(707) 464-9606 phone  
(707) 465-4405 fax

FRONT STREET REVITALIZATION  
(A STREET TO HIGHWAY 101 SOUTH)  
TYPICAL SECTIONS



DESIGN BY	REU
DRAWN BY	REU
CHECKED BY	HEM
DATE	JuLy 9, 2012
SCALE	NO SCALE
JOB NO.	11009
DRAWING NUMBER	X-3
SHEET NUMBER	21 OF 111

PLOT BY: RICHARD PLOT DATE: \$DATE\$ FILE NAME: \$FILE\$.



DESIGN OVERSIGHT		QUALITY CONTROL APPROVAL	
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE

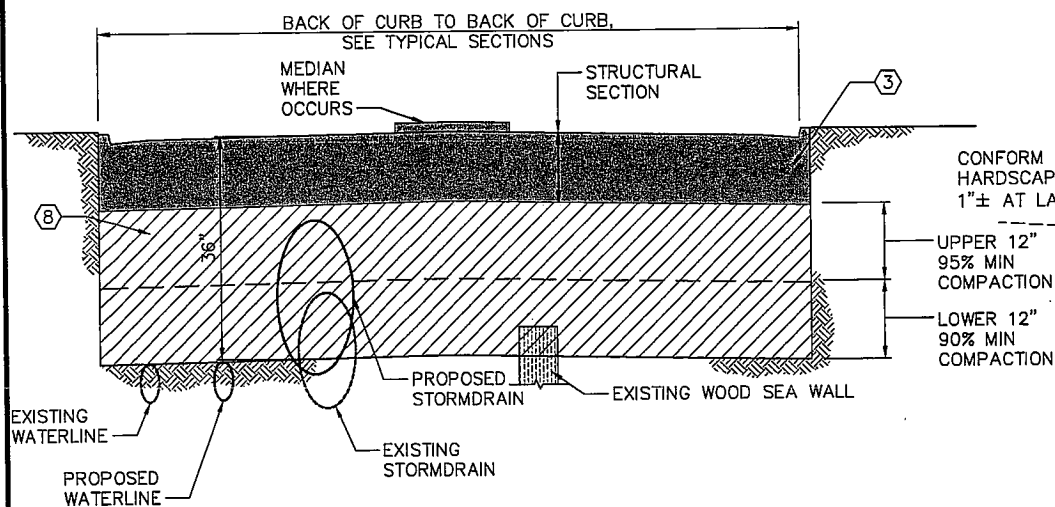
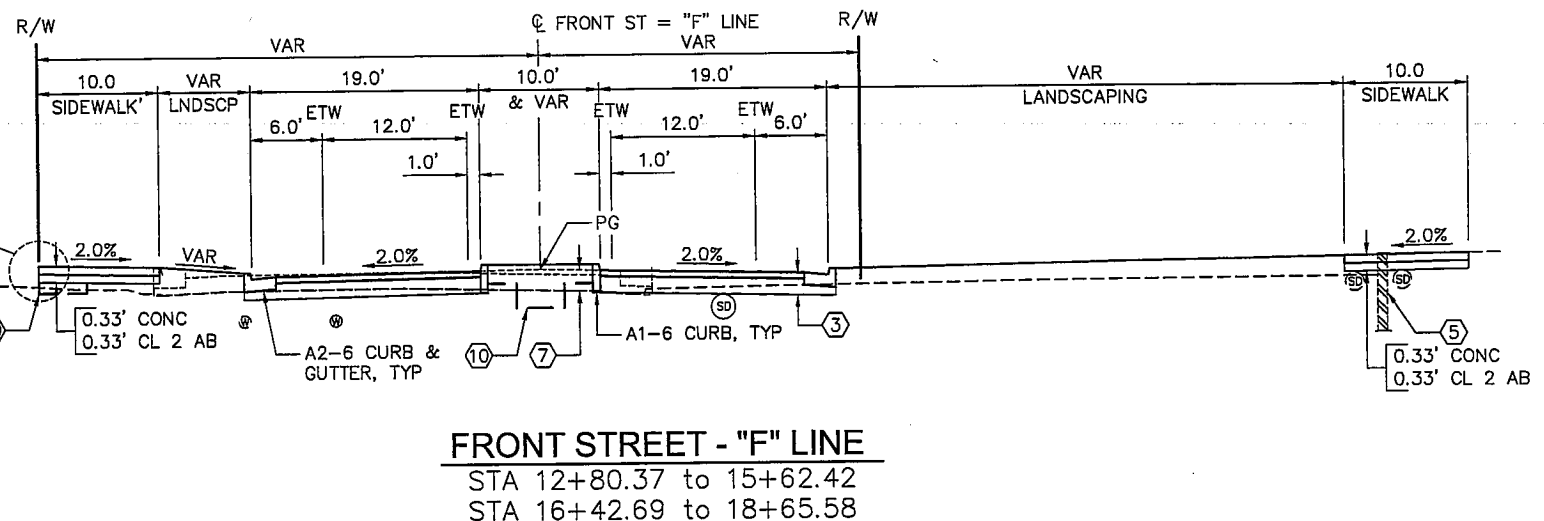
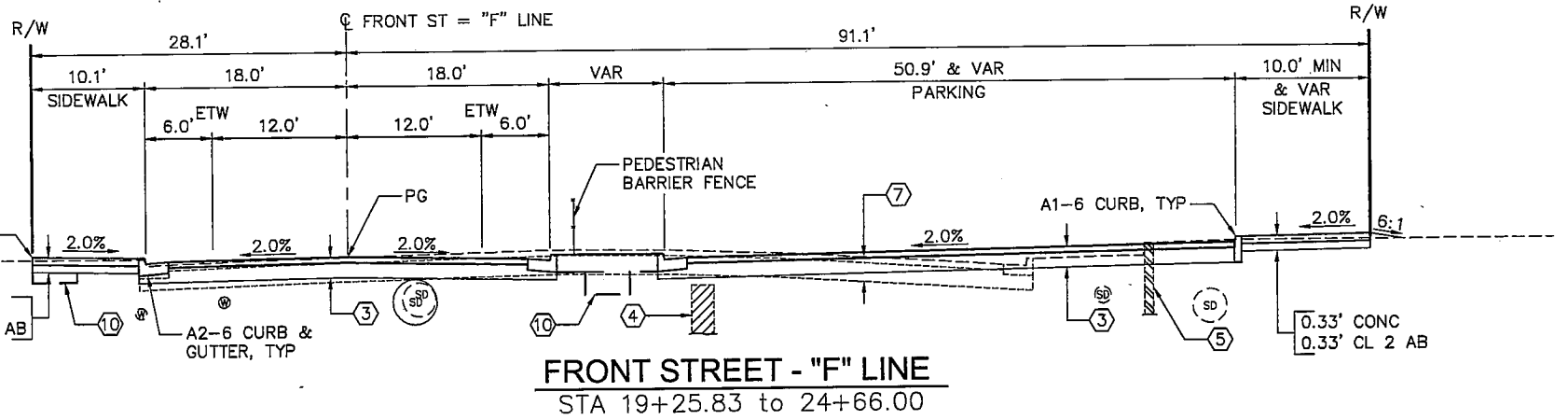
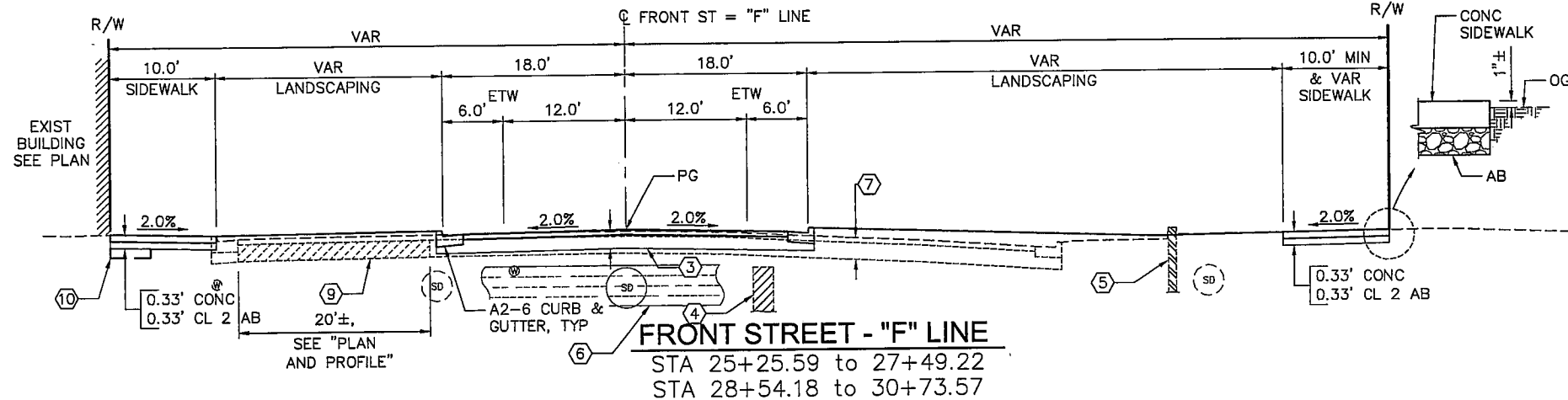
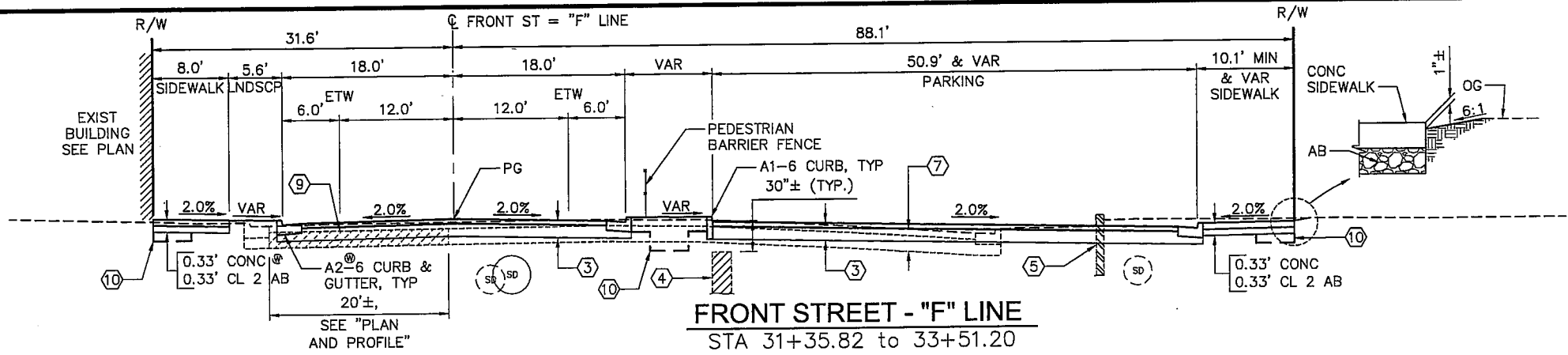
DESIGN OVERSIGHT		QUALITY CONTROL APPROVAL	
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE

**dh drake haglan AND ASSOCIATES** 11060 White Rock Road, Suite 200  
Rancho Cordova, CA 95670

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012 FILE NAME: U:\11009 - FRONT STREET - CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET X-1\_X-2.DWG

**NOTES:**

- ① DIMENSIONS OF THE STRUCTURAL SECTION ARE SUBJECT TO THE TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
- ② FOR VARYING WIDTHS, SEE "PLAN AND PROFILE" SHEETS AND "CONSTRUCTION DETAILS" SHEETS
- ③ NEW STRUCTURAL SECTION  
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0.33'-0.83'± AB  
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- ⑩ LIMITS OF TREE EXCAVATION



**NOTES:**

1. EXISTING AC PAVING AND AGGREGATE BASE MAY BE PROCESSED AND STOCKPILED FOR USE AS NEW AGGREGATE BASE AT CONTRACTORS OPTION.
2. REMOVE AND SEPARATE THE LOWER 2-3 INCHES OF EXISTING AGGREGATE BASE THAT IS FOULED. FOULED BASE MATERIAL MAY BE USED AS STRUCTURAL FILL BUT IS UNSUITABLE AS NEW AGGREGATE BASE.
3. EXISTING STRUCTURAL SECTION SHOWN IS SPECIFIC TO LOCATION BORED & WILL CARRY THROUGHOUT.

**COMPACTION LIMITS**

**EXCAVATION AND BACKFILL DETAIL**  
NO SCALE

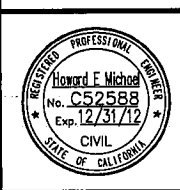
**FINAL SUBMITTAL - NOT FOR CONSTRUCTION**

NO.	REVISION	DATE	APP.



CITY OF CRESCENT CITY  
377 J Street  
Crescent City, CA 95531  
(707) 464-9506 phone  
(707) 465-4405 fax

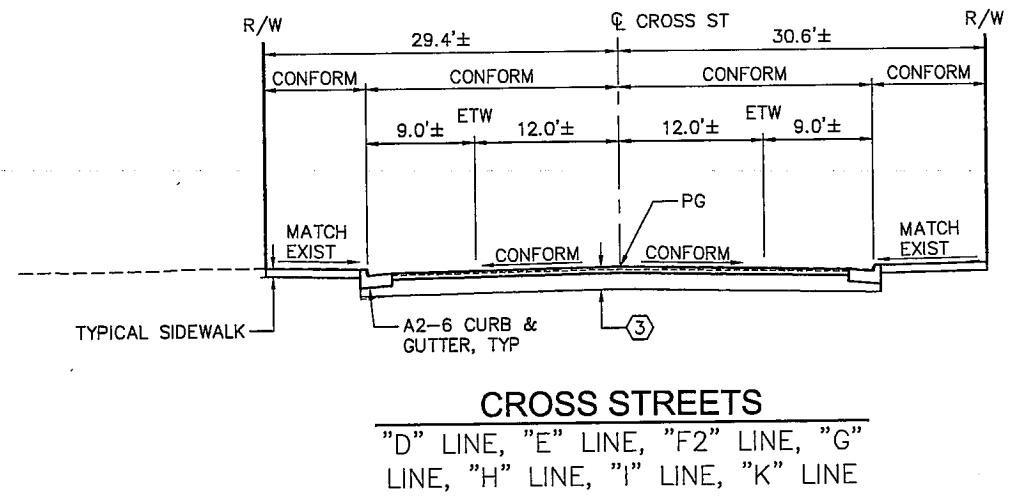
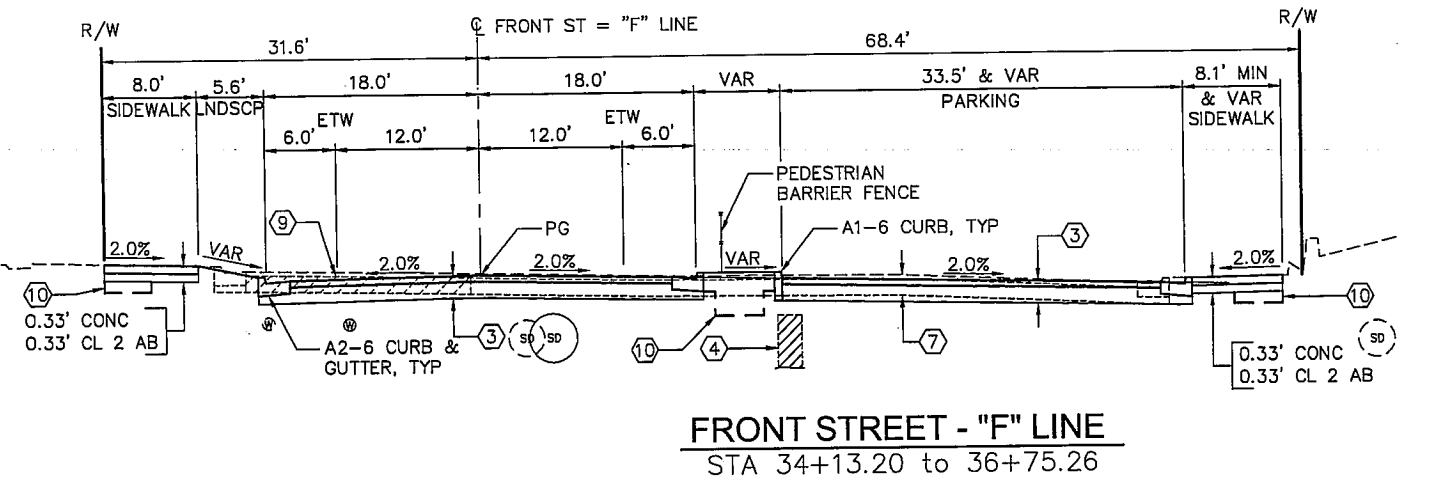
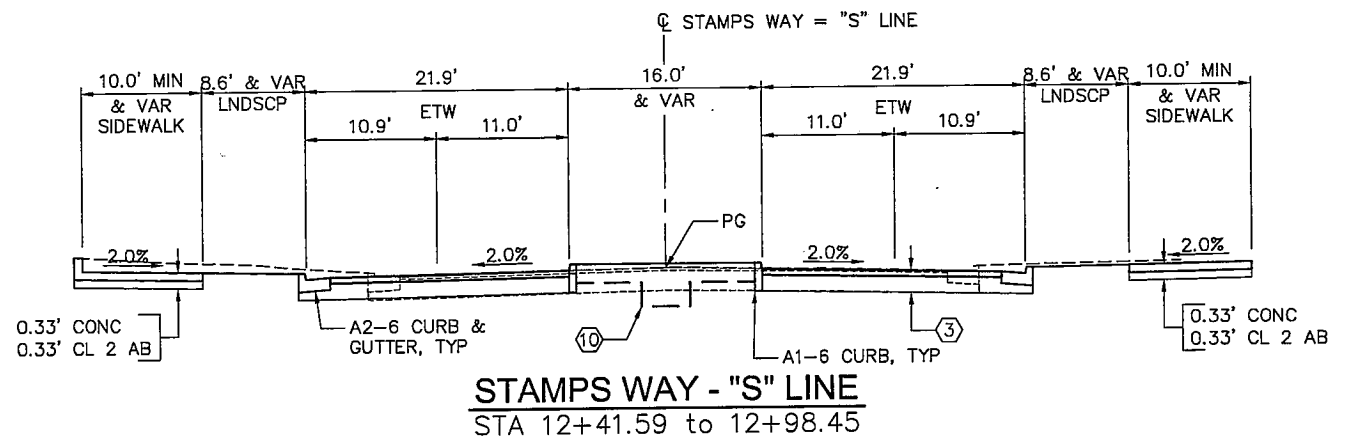
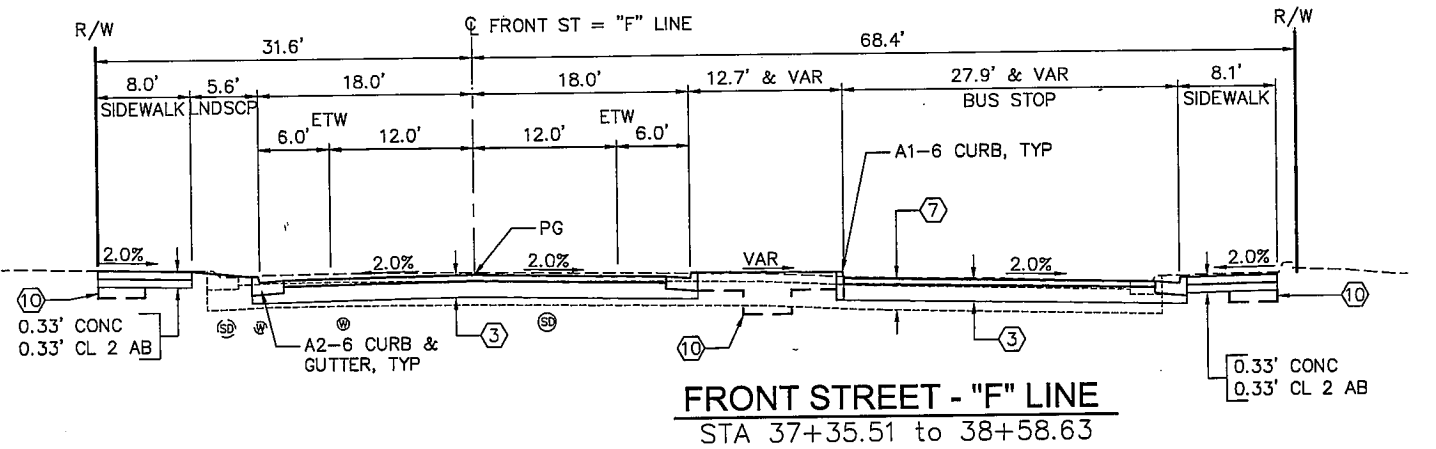
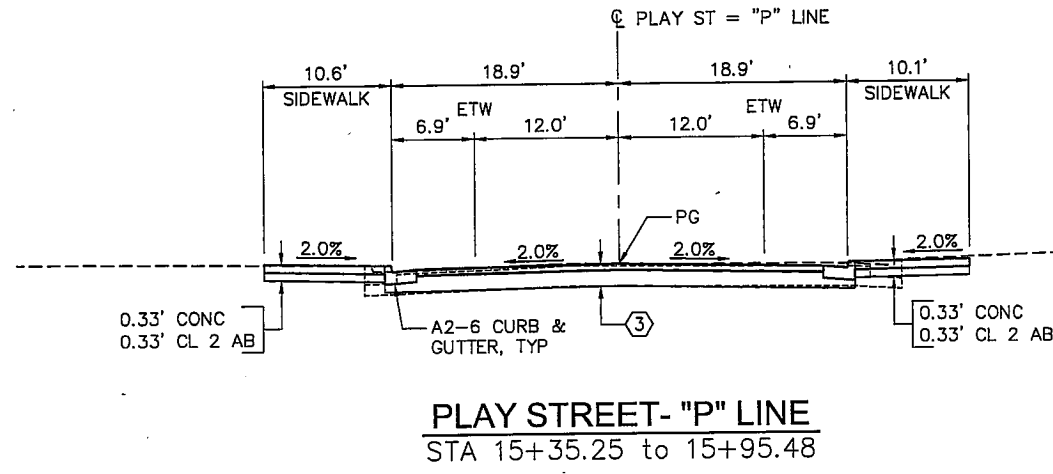
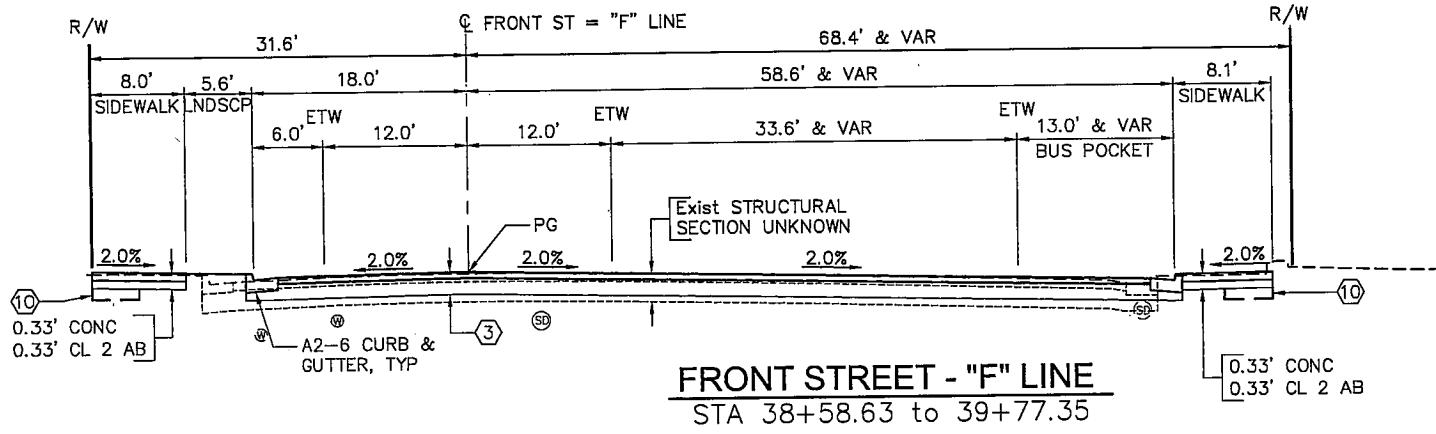
**FRONT STREET REVITALIZATION**  
**(A STREET TO HIGHWAY 101 SOUTH)**  
**TYPICAL CROSS SECTIONS**



DESIGN BY DCP  
DRAWN BY DCP  
CHECKED BY HEM  
DATE July 9, 2012  
SCALE NO SCALE  
JOB NO. 11009  
DRAWING NUMBER  
**X-4**  
SHEET NUMBER

**NOTES:**

- ① DIMENSIONS OF THE STRUCTURAL SECTION ARE SUBJECT TO THE TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
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- ③ NEW STRUCTURAL SECTION  
0.33' HMA (TYPE A)  
0.67' CLASS 2 AB
- ④ EXISTING TIMBER SEA WALL TO BE REMOVED FROM Approx Sta 23+40 TO Sta 36+00
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0.17'-0.33'± AC  
0.33'-0.83'± AB  
SEE GEOTECH REPORT
- ⑨ STRUCTURAL SECTION CONTAINS ROOTS AND WHEN REMOVED IS UNSUITABLE FOR REUSE IN NEW ROAD BED UNLESS 2" SPHERICAL AND LARGER ORGANICS ARE SCREENED OUT. USE OF ORGANIC LADEN PROCESSED STRUCTURAL SECTION MAY BE USED AS BASE IN HARDSCAPE AREAS, EXCLUDING DRIVEWAYS.



FINAL SUBMITTAL - NOT FOR CONSTRUCTION

NO.	REVISION	DATE	APP.



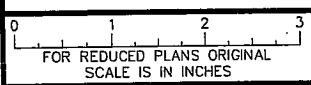
CITY OF CRESCENT CITY  
377 J Street  
Crescent City, CA 95531  
(707) 464-9806 phone  
(707) 465-4405 fax

FRONT STREET REVITALIZATION  
(A STREET TO HIGHWAY 101 SOUTH)  
TYPICAL CROSS SECTIONS



DESIGN BY	DCP
DRAWN BY	DCP
CHECKED BY	HEM
DATE	July 9, 2012
SCALE	NO SCALE
JOB NO.	11009
DRAWING NUMBER	X-5
SHEET NUMBER	23 OF 114

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET X-1\_X-2.DWG



DESIGN OVERSIGHT			
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE

QUALITY CONTROL APPROVAL			
Q.C. REVIEW BY	R.C.E. NUMBER	SIGNATURE	DATE

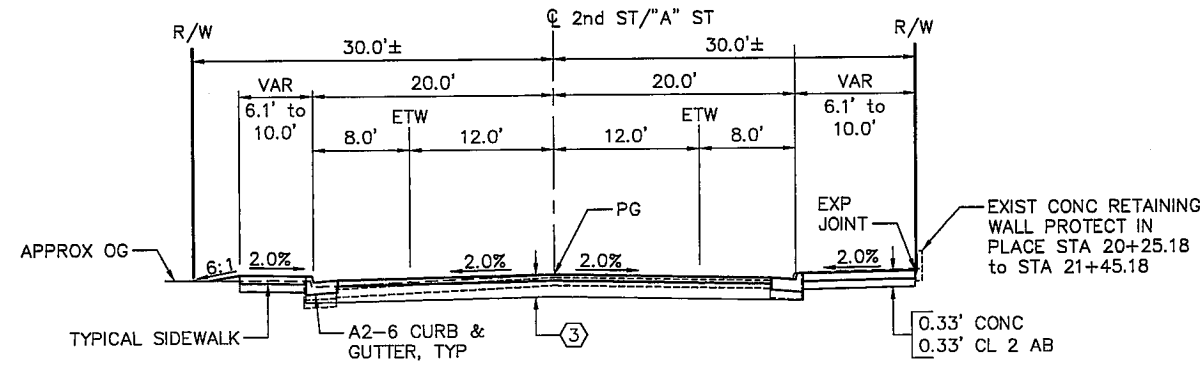
**dh drake haglan AND ASSOCIATES**

11060 White Rock Road, Suite 200  
Rancho Cordova, CA 95670

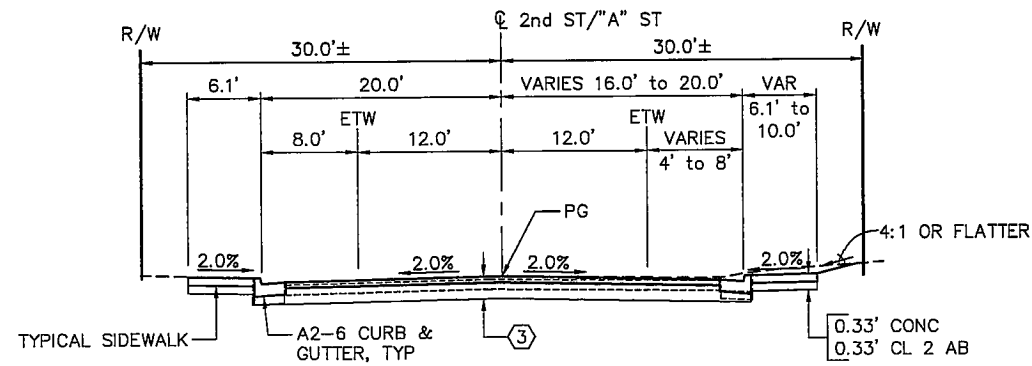


**NOTES:**

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- ② FOR VARYING WIDTHS, SEE "PLAN AND PROFILE" SHEETS AND "CONSTRUCTION DETAILS" SHEETS
- ③ NEW STRUCTURAL SECTION  
0.33' HMA (TYPE A)  
0.67' CLASS 2 AB



**"A" STREET - "A" LINE**  
STA 20+21.31 to 21+45.18



**2nd STREET & "A" STREET - "A" LINE**  
STA 17+40.39 to 20+21.31

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET X-1\_X-2.DWG

**FINAL SUBMITTAL - NOT FOR CONSTRUCTION**

NO.	REVISION	DATE	APP.



CITY OF CRESCENT CITY  
377 J Street  
Crescent City, CA 95531  
(707) 464-9506 phone  
(707) 465-4405 fax

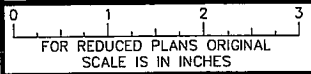
**FRONT STREET REVITALIZATION**  
**(A STREET TO HIGHWAY 101 SOUTH)**  
**TYPICAL CROSS SECTIONS**



DESIGN BY	DCP
DRAWN BY	DCP
CHECKED BY	HEM
DATE	July 9, 2012
SCALE	NO SCALE
JOB NO.	11009

DRAWING NUMBER  
**X-6**

SHEET NUMBER  
24 OF 114



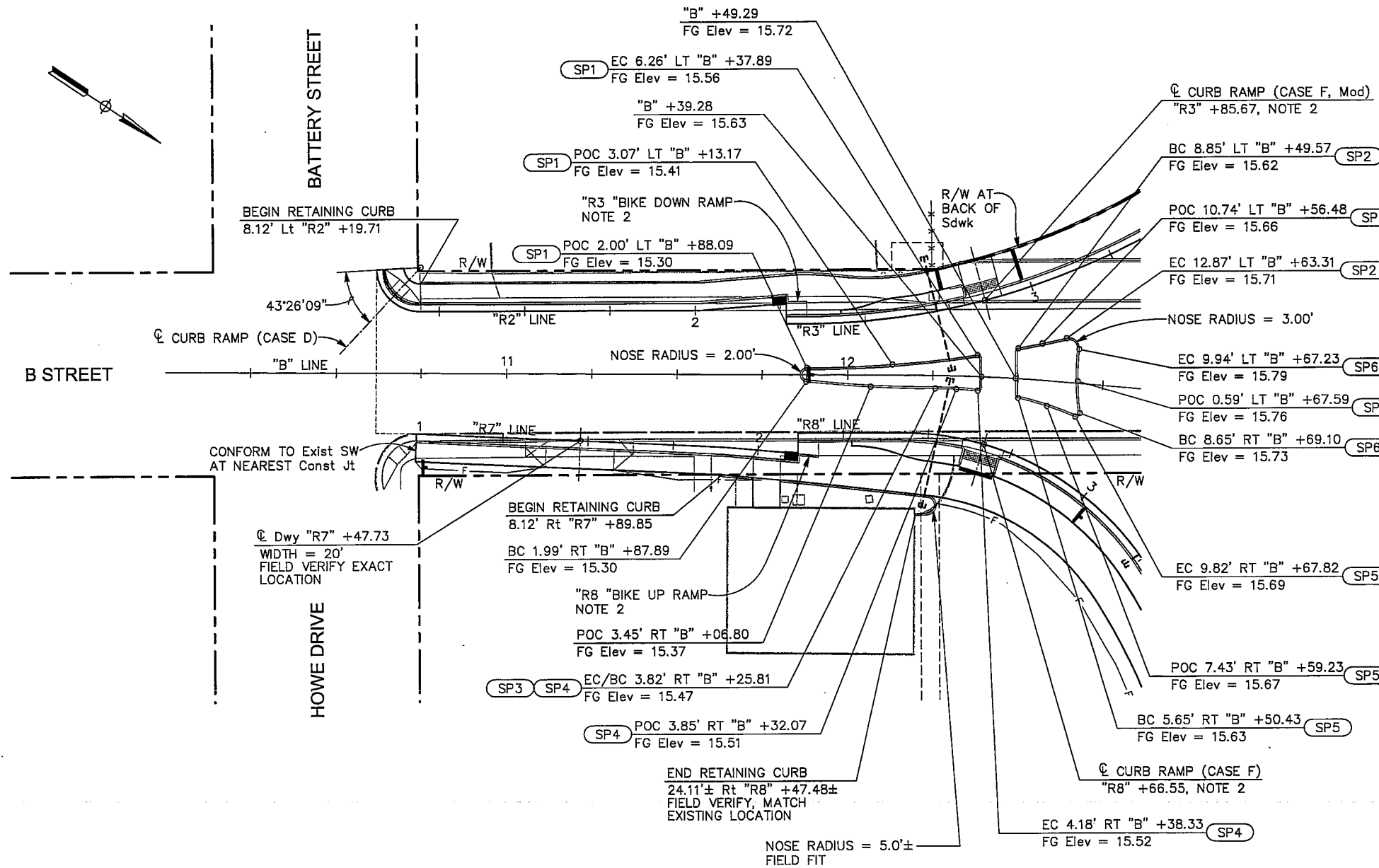
DESIGN OVERSIGHT		QUALITY CONTROL APPROVAL	
SUPERVISION BY		Q.C. REVIEW BY	
R.C.E. NUMBER		R.C.E. NUMBER	
SIGNATURE		SIGNATURE	
DATE		DATE	

**dh drake haglan AND ASSOCIATES** 11060 White Rock Road, Suite 200  
Roncho Cordova, CA 95570

**NOTES:**

1. THE RADIUS OF THE SPLITTER ISLAND NOSES ARE 1.00' UNLESS NOTED OTHERWISE.
2. FOR CURB RAMPS, BIKE DOWN RAMP AND BIKE UP RAMP DETAILS NOT SHOWN, SEE "CONSTRUCTION DETAILS" SHEETS.

CURVE DATA TABLE				
No.	R	Δ	T	L
SP1	347.00	8°17'32"	25.15	50.22
SP2	347.00	2°24'31"	7.29	14.59
SP3	336.00	6°28'14"	18.99	37.94
SP4	104.00	6°50'58"	6.22	12.43
SP5	104.00	9°46'29"	8.89	17.74
SP6	75.00	14°18'40"	9.42	18.73



**PLAN**  
SCALE: 1" = 20'

FINAL SUBMITTAL - NOT FOR CONSTRUCTION

REVISION NO. DATE APP

CITY OF CRESCENT CITY  
377 J Street  
Crescent City, CA 95531  
(707) 464-9506 phone  
(707) 465-4405 fax

FRONT STREET REVITALIZATION  
(A STREET TO HIGHWAY 101 SOUTH)  
CONSTRUCTION DETAILS

REGISTERED PROFESSIONAL ENGINEER  
Howard F. Nichols  
No. C52588  
Exp. 12/31/12  
CIVIL  
STATE OF CALIFORNIA

DESIGN BY REU  
DRAWN BY REU  
CHECKED BY HEM  
DATE July 9, 2012  
SCALE AS SHOWN  
JOB NO. 11009

DRAWING NUMBER  
**C-1**

SHEET NUMBER  
25 OF 111

PLOT BY: RICHARD PLOT DATE: \$DATE\$ FILE NAME: \$FILEL\$

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

DESIGN OVERSIGHT  
SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

QUALITY CONTROL APPROVAL  
Q.C. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

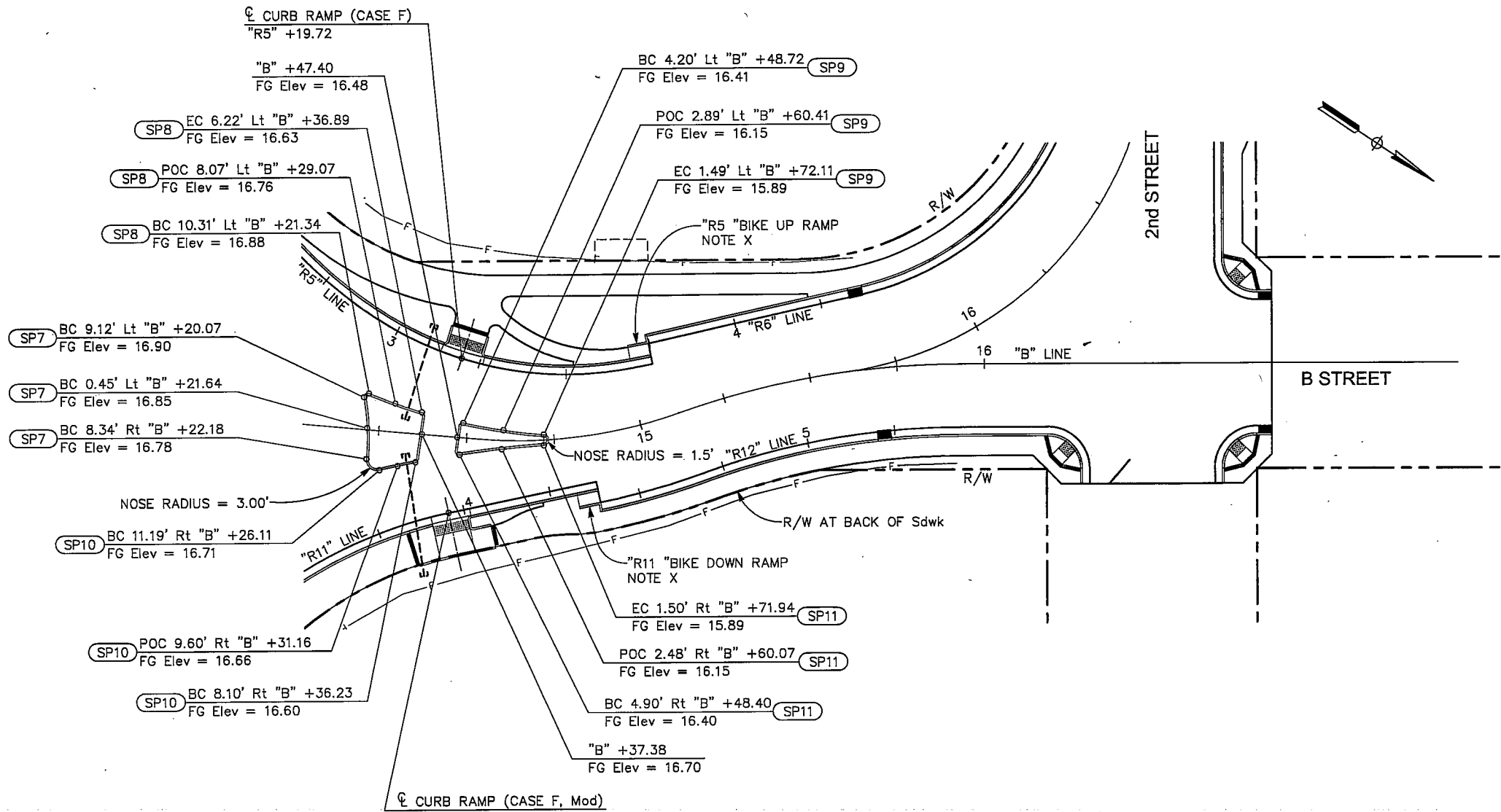
**dh drake haglan AND ASSOCIATES** 11060 White Rock Road, Suite 200 Rancho Cordova, CA 95670

**NOTES:**

1. THE RADIUS OF THE SPLITTER ISLAND NOSES ARE 1.00' UNLESS NOTED OTHERWISE.
2. FOR CURB RAMPS, BIKE DOWN RAMP AND BIKE UP RAMP DETAILS NOT SHOWN, SEE "CONSTRUCTION DETAILS" SHEETS.

**CURVE DATA TABLE**

No.	R	Δ	T	L
SP7	75.00	12°28'12"	8.86	17.63
SP8	161.00	5°43'22"	8.05	16.08
SP9	161.00	8°14'59"	11.61	23.18
SP10	300.00	2°01'17"	5.29	10.58
SP11	300.00	4°36'48"	12.08	24.16



**PLAN**  
SCALE: 1" = 20'

FINAL SUBMITTAL - NOT FOR CONSTRUCTION

NO.	REVISION	DATE	APP.



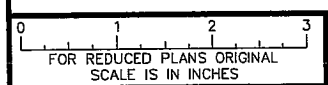
CITY OF CRESCENT CITY  
377 J Street  
Crescent City, CA 95531  
(707) 465-4405 fax

FRONT STREET REVITALIZATION  
(A STREET to HIGHWAY 101 SOUTH)  
CONSTRUCTION DETAILS



DESIGN BY	REU
DRAWN BY	REU
CHECKED BY	HEM
DATE	July 9, 2012
SCALE	AS SHOWN
JOB NO.	11009
DRAWING NUMBER	C-2
SHEET NUMBER	26 OF 111

PLOT BY: RICHARD PLOT DATE: \$DATE\$ FILE NAME: \$FILEL\$



DESIGN OVERSIGHT			
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE

QUALITY CONTROL APPROVAL			
Q.C. REVIEW BY	R.C.E. NUMBER	SIGNATURE	DATE

**dh drake haglan AND ASSOCIATES** 11060 White Rock Road, Suite 200  
Rancho Cordova, CA 95670

**NOTES:**

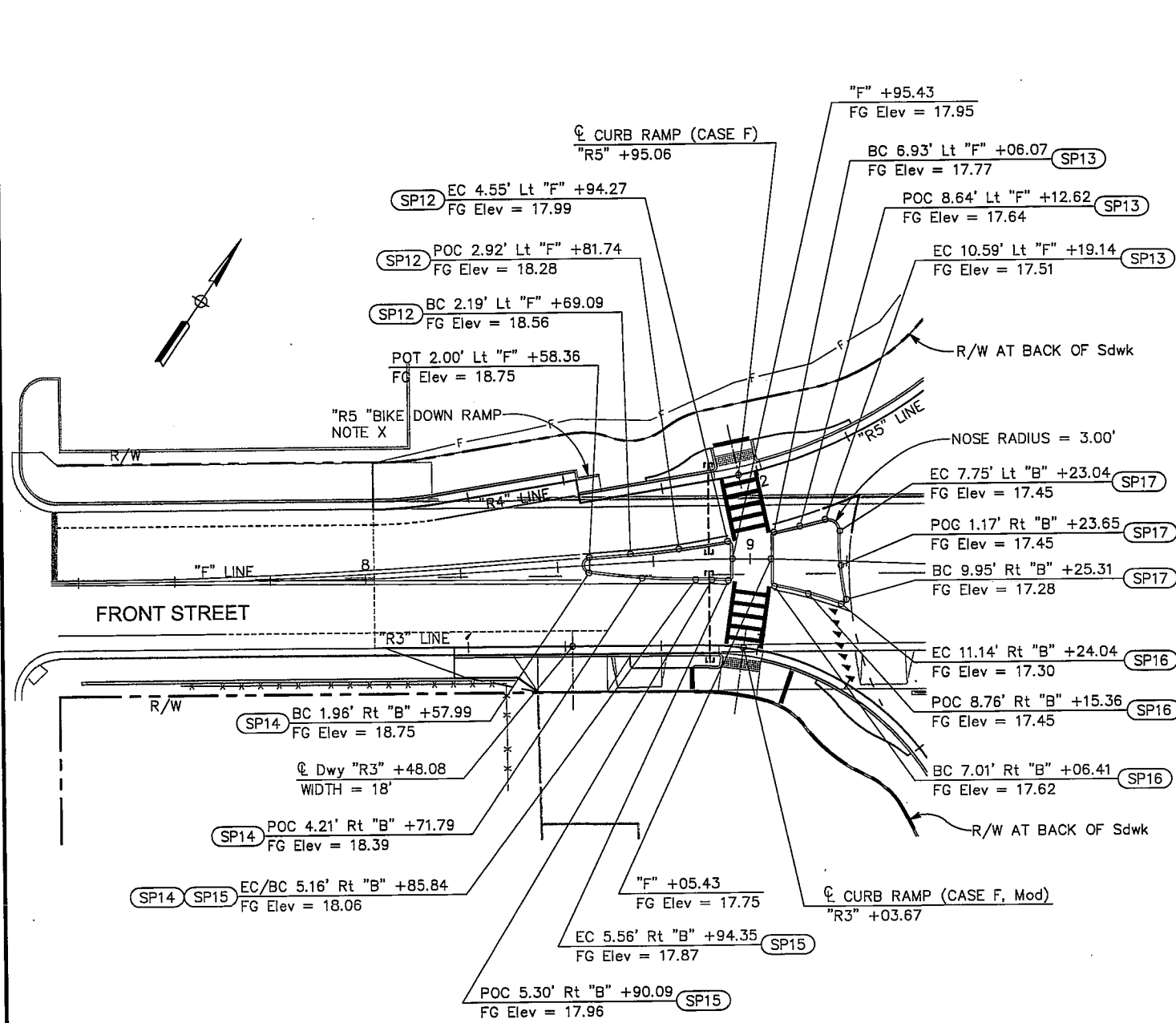
1. THE RADIUS OF THE SPLITTER ISLAND NOSES ARE 1.00' UNLESS NOTED OTHERWISE.
2. FOR CURB RAMPS, BIKE DOWN RAMP AND BIKE UP RAMP DETAILS NOT SHOWN, SEE "CONSTRUCTION DETAILS" SHEETS.

**CURVE DATA TABLE**

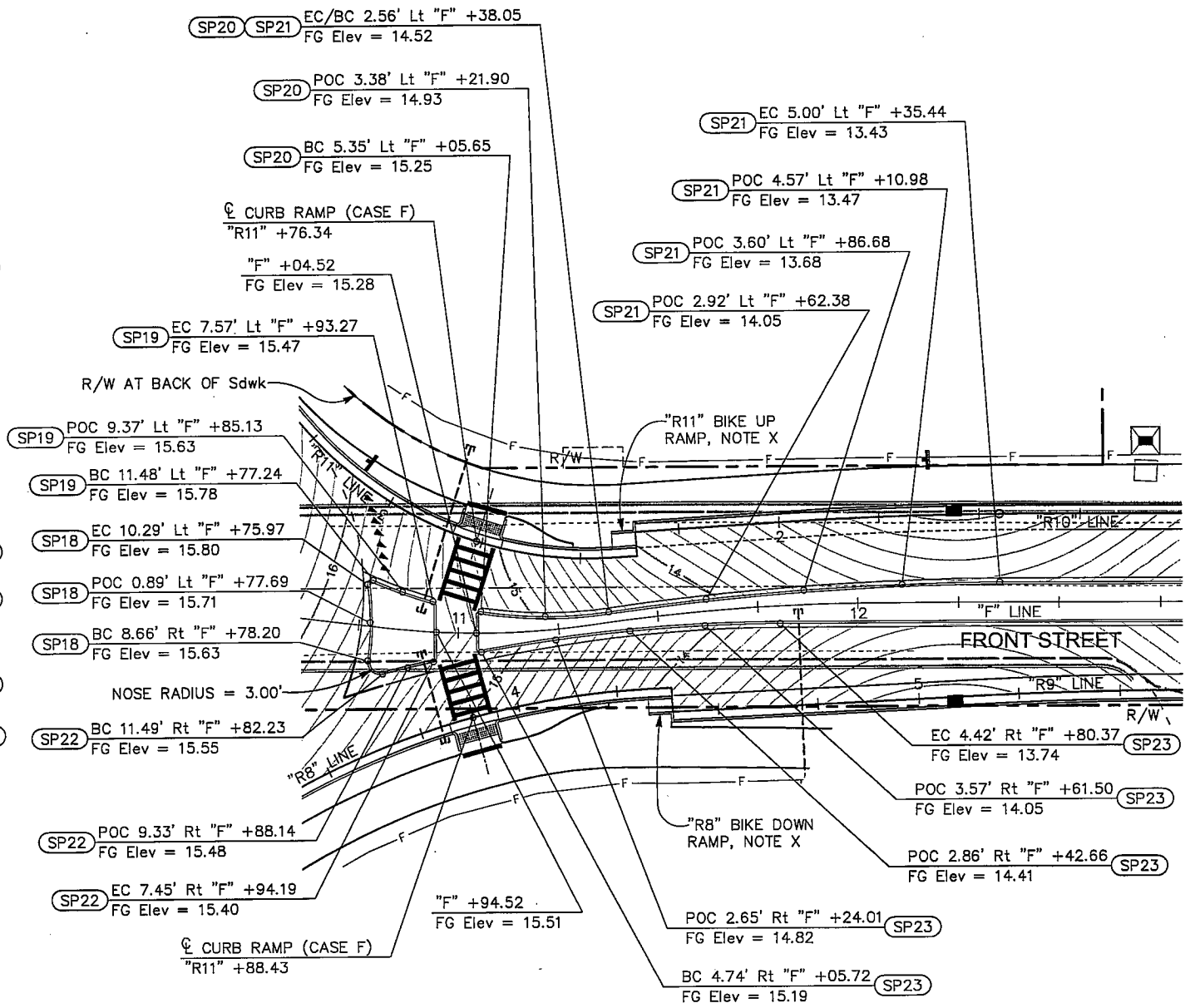
No.	R	Δ	T	L
SP12	276.00	5°17'14"	12.74	25.47
SP13	276.00	2°51'11"	6.87	13.74
SP14	192.00	8°19'31"	13.97	270.90
SP15	109.00	4°25'55"	4.22	8.43
SP16	109.00	9°26'51"	9.01	17.97
SP17	75.00	13°39'36"	8.98	17.88

**CURVE DATA TABLE**

No.	R	Δ	T	L
SP18	75.00	14°36'34"	9.61	19.12
SP19	107.00	8°34'14"	8.02	16.01
SP20	107.00	17°09'35"	16.14	32.05
SP21	694.00	8°04'43"	49.01	97.85
SP22	418.00	1°48'16"	6.58	13.16
SP23	418.00	10°16'24"	37.58	74.95

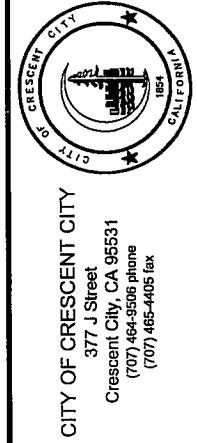


**PLAN**  
SCALE: 1" = 20'

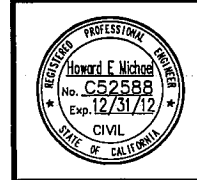


**PLAN**  
SCALE: 1" = 20'

NO.	REVISION	DATE	APP.



**FRONT STREET REVITALIZATION  
(A STREET TO HIGHWAY 101 SOUTH)  
CONSTRUCTION DETAILS**



DESIGN BY	REU
DRAWN BY	REU
CHECKED BY	HEM
DATE	July 9, 2012
SCALE	AS SHOWN
JOB NO.	11009

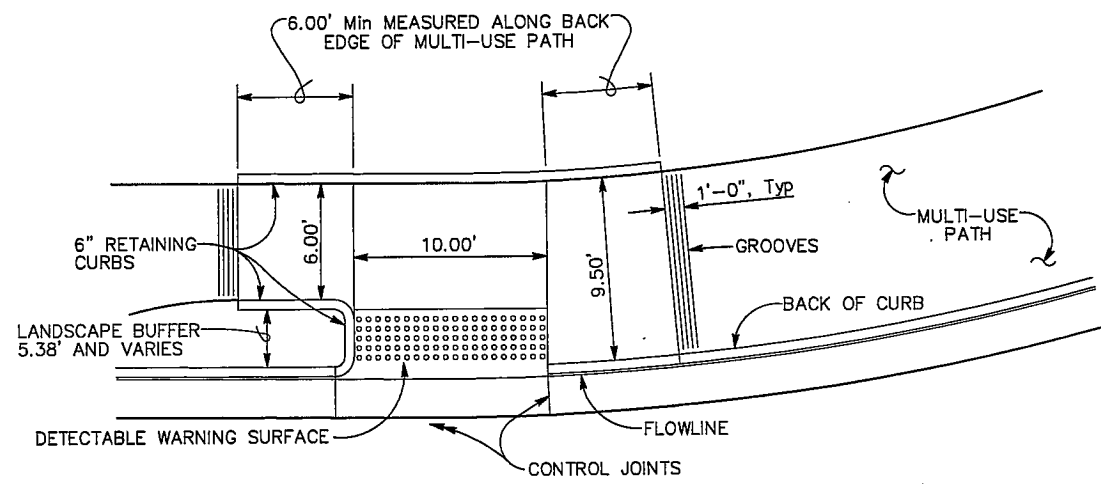
DRAWING NUMBER	C-3
SHEET NUMBER	27 OF 111

**FINAL SUBMITTAL - NOT FOR CONSTRUCTION**

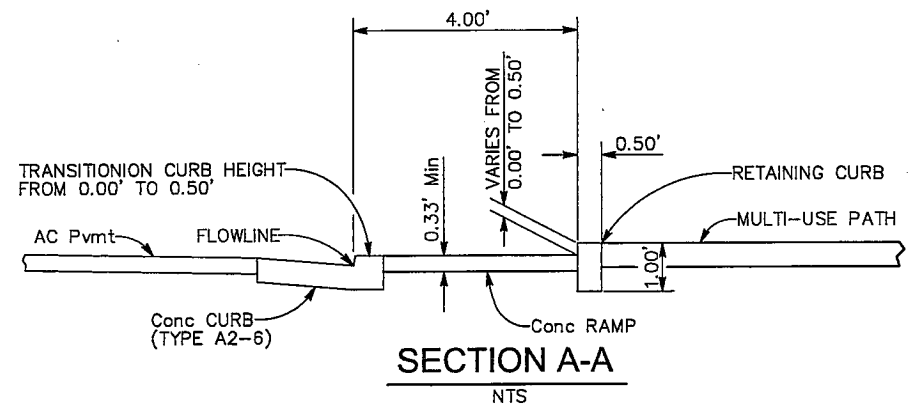
**dh drake haglan AND ASSOCIATES** 11060 White Rock Road, Suite 200  
Rancho Cordova, CA 95670

PLOT BY: RICHARD PLOT DATE: \$DATE\$ FILE NAME: \$FILEL\$

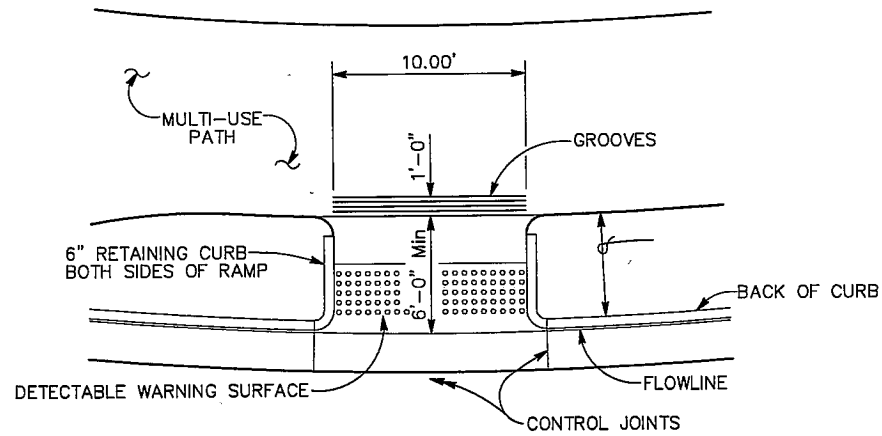
DESIGN OVERSIGHT			QUALITY CONTROL APPROVAL				
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE	Q.C. REVIEW BY	R.C.E. NUMBER	SIGNATURE	DATE



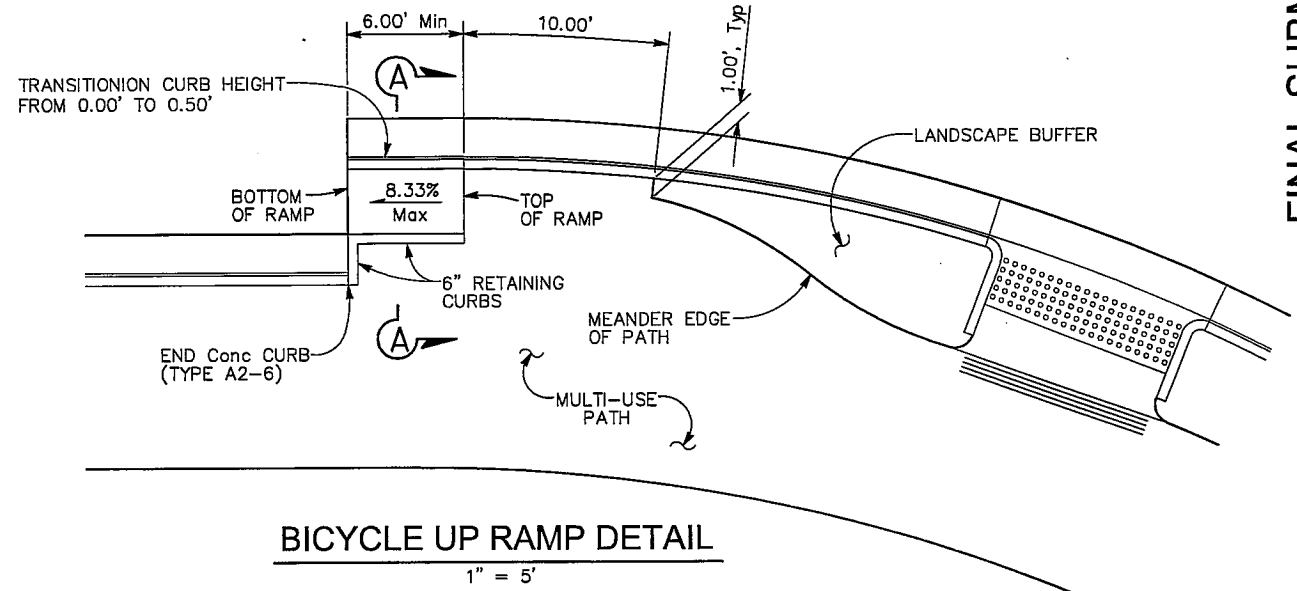
FOR DETAILS NOT SHOWN, SEE Std PLAN A88A  
**CASE F Mod CURB RAMP**  
 1" = 5'



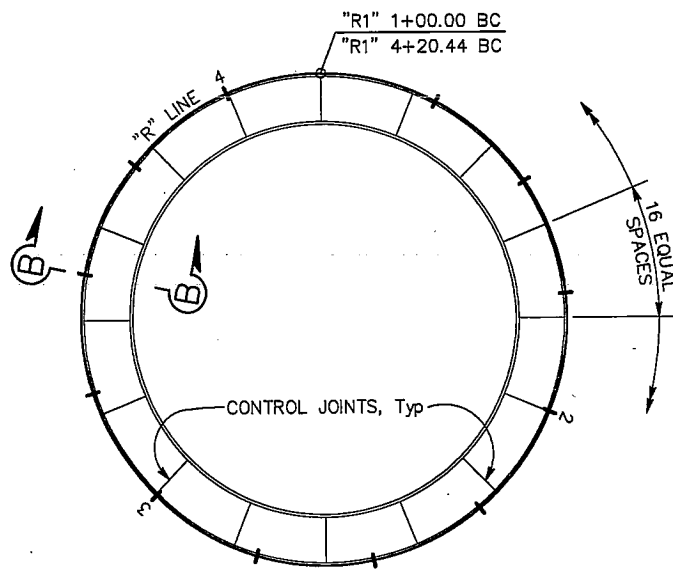
**SECTION A-A**  
 NTS



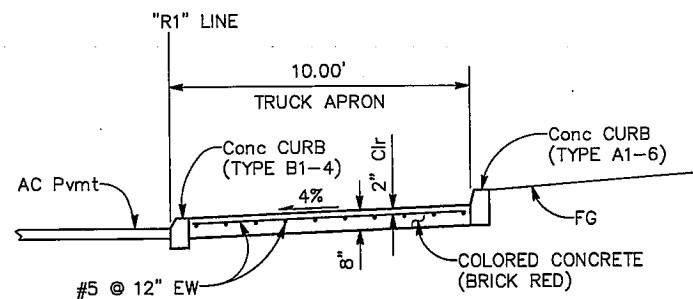
FOR DETAILS NOT SHOWN, SEE Std PLAN A88A  
**CASE F CURB RAMP**  
 1" = 5'



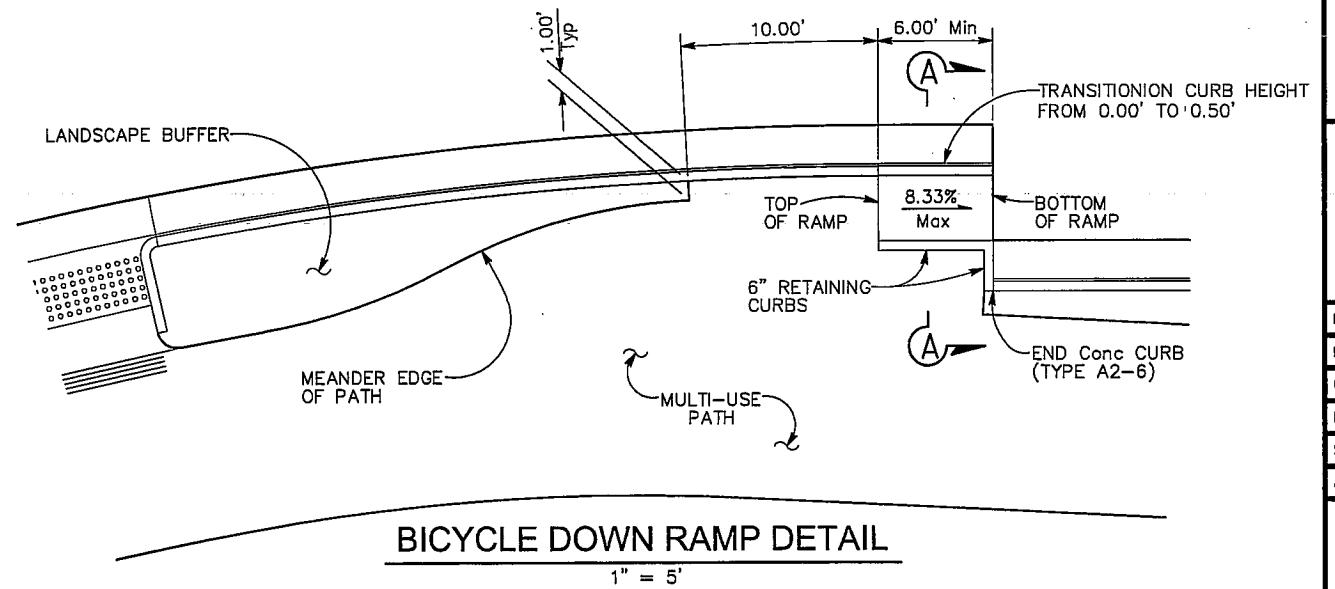
**BICYCLE UP RAMP DETAIL**  
 1" = 5'



**TRUCK APRON DETAILS**  
 1" = 20'



**SECTION B-B**  
 1/4" = 1'-0"



**BICYCLE DOWN RAMP DETAIL**  
 1" = 5'

FINAL SUBMITTAL - NOT FOR CONSTRUCTION

NO.	REVISION	DATE



CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 464-9508 phone  
 (707) 465-4405 fax

FRONT STREET REVITALIZATION  
 (A STREET to HIGHWAY 101 SOUTH)  
 CONSTRUCTION DETAILS



DESIGN BY REU  
 DRAWN BY REU  
 CHECKED BY HEM  
 DATE July 9, 2012  
 SCALE AS SHOWN  
 JOB NO. 11009

DRAWING NUMBER  
**C-4**

SHEET NUMBER

28 OF 111

PLOT BY: RICHARD PLOT DATE: \$DATE\$ FILE NAME: \$FILEL\$

FOR REDUCED PLANS ORIGINAL

DESIGN OVERSIGHT  
 SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

QUALITY CONTROL APPROVAL  
 Q.C. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

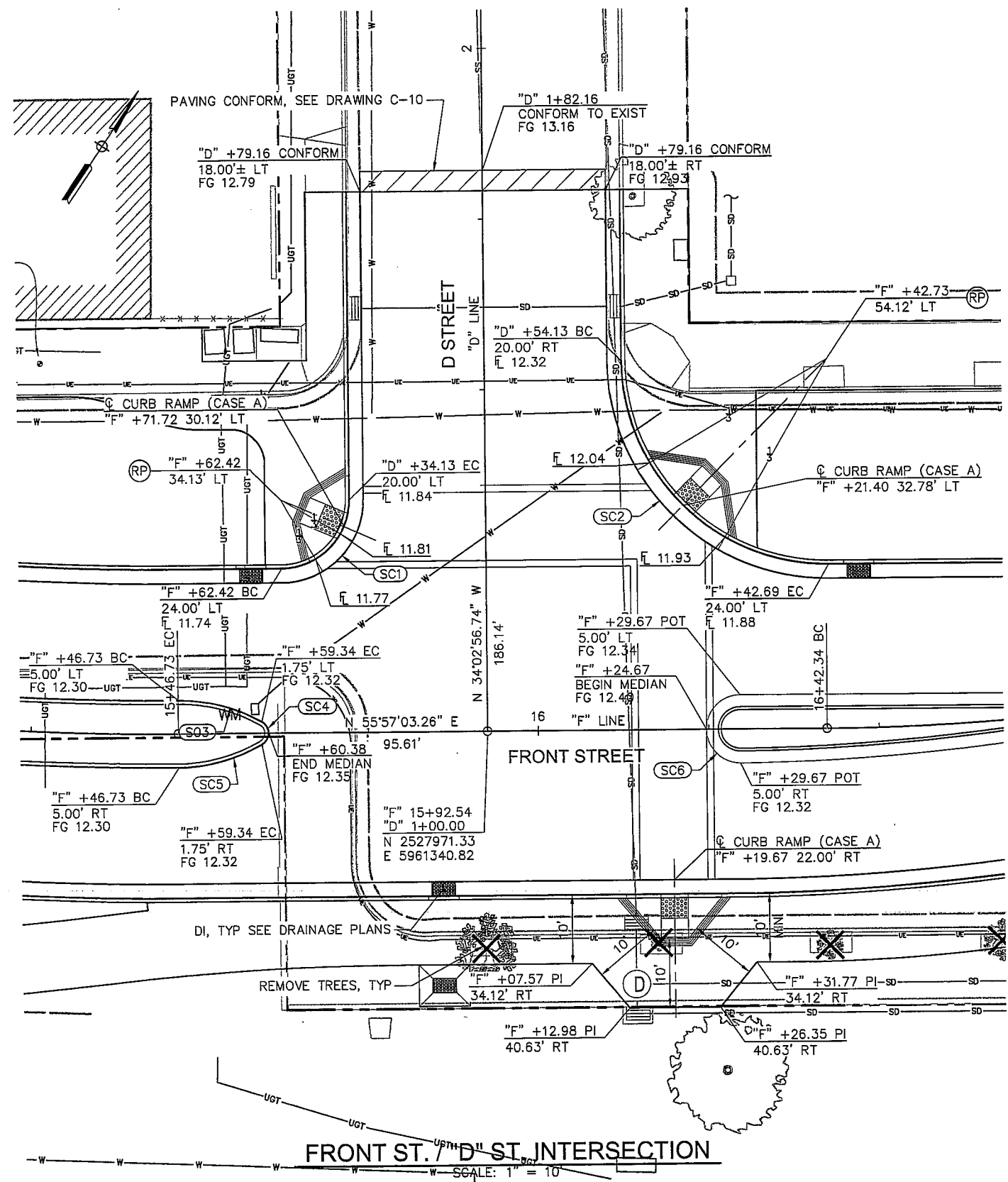
**dh drake haglan AND ASSOCIATES**  
 11050 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET C-4\_C-10.DWG

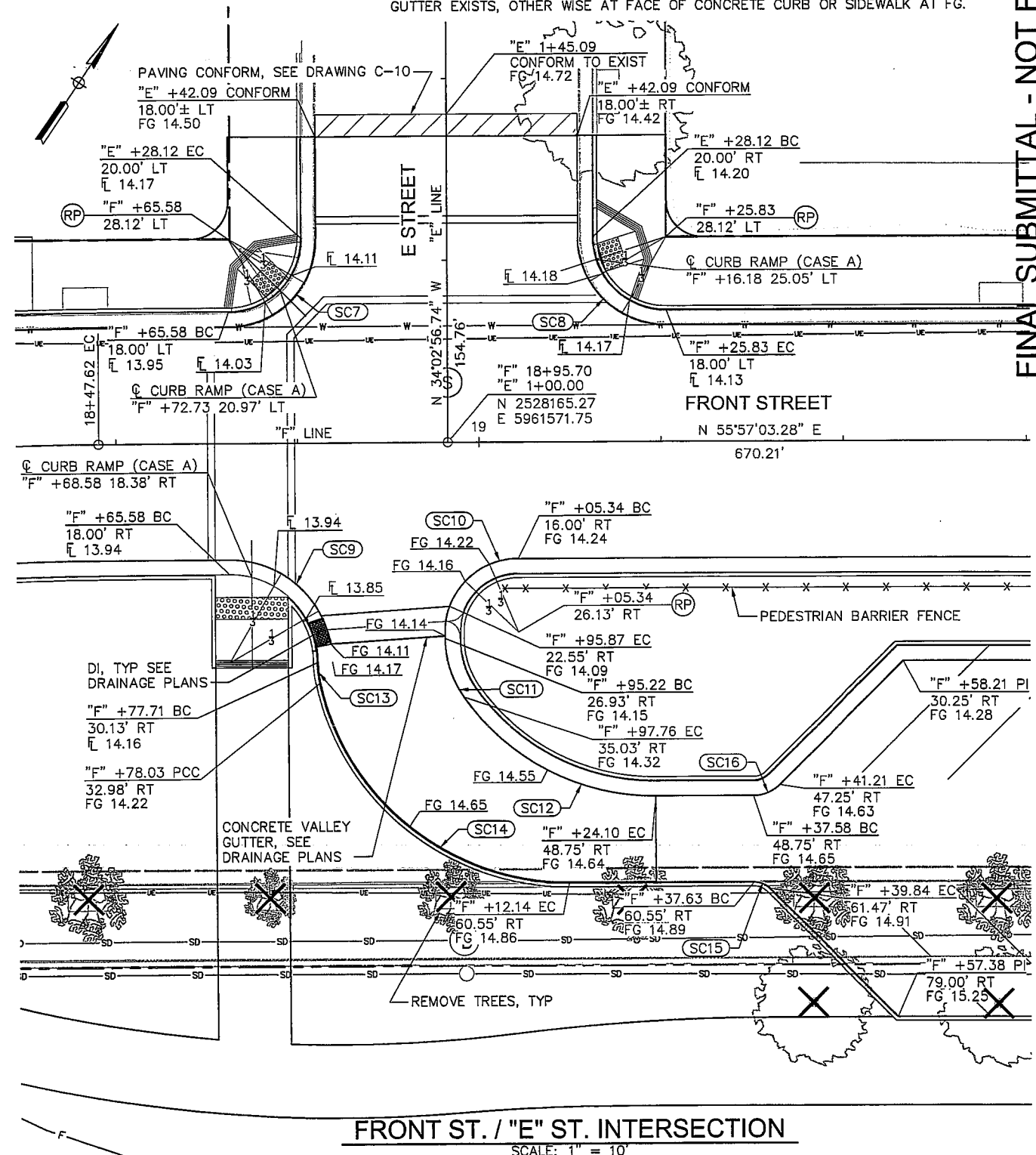
No.	R	Δ	T	L
SC1	12.13'	90°00'00"	12.12'	19.05'
SC2	32.13'	90°00'00"	32.12'	50.46'
SC3	26.10'	28°53'45"	6.72'	13.16'
SC4	2.00'	122°12'29"	3.62'	4.27'
SC5	26.10'	28°53'45"	6.72'	13.16'
SC6	5.00'	180°00'00"	N/A	15.71'

No.	R	Δ	T	L
SC7	12.13'	90°00'00"	12.12'	19.05'
SC8	12.13'	89°59'47"	12.12'	19.05'
SC9	14.13'	90°00'00"	14.12'	22.19'
SC10	10.13'	90°00'00"	10.13'	15.90'
SC11	14.12'	34°56'35"	4.45'	8.61'
SC12	32.12'	55°03'25"	16.74'	30.87'
SC13	14.87'	11°04'42"	1.44'	2.88'
SC14	34.87'	77°54'47"	28.20'	47.42'
SC15	3.12'	45°00'00"	1.29'	2.45'
SC16	5.12'	45°00'00"	2.12'	4.03'

- NOTES:**
- SCxx INDICATES SUPPLEMENTAL CURVE No.
  - FG INDICATES FINISHED GRADE ELEVATIONS AT PAVED SURFACES.
  - (RP) INDICATES RADIUS POINT OF CURB RETURN.
  - FG ELEVATIONS ON CURVES NOT LABELED AT "3" POINTS ARE SHOWN AT THE CURVE MID-POINT.
  - FOR CURB RAMP DETAILS, SEE STANDARD PLAN AB8A. FOR CURB RAMP ADJACENT SLOPES AND CLEARANCE REQUIREMENTS, SEE "CURB RAMP DETAIL" ON SHEET C-9.
  - FOR COMPLETE SIDEWALK LAYOUT INFORMATION, SEE LAYOUT SHEETS.
  - FOR PEDESTRIAN BARRIER FENCE DETAILS, SEE CONSTRUCTION DETAILS SHEET C-9.
  - ALL STATION, OFFSET & ELEVATION CALLOUTS ARE SHOWN AT LIP OF GUTTER WHERE GUTTER EXISTS, OTHER WISE AT FACE OF CONCRETE CURB OR SIDEWALK AT FG.



**FRONT ST. / "D" ST. INTERSECTION**  
 SCALE: 1" = 10'



**FRONT ST. / "E" ST. INTERSECTION**  
 SCALE: 1" = 10'

**FINAL SUBMITTAL - NOT FOR CONSTRUCTION**

NO.	REVISION	DATE	APP



CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 464-9506 phone  
 (707) 465-4405 fax

**FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 CONSTRUCTION DETAILS**



DESIGN BY	DCP
DRAWN BY	DCP
CHECKED BY	HEM
DATE	July 9, 2012
SCALE	AS SHOWN
JOB NO.	11009
DRAWING NUMBER	C-5

SHEET NUMBER  
 29 OF 114

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\FRONT STREET C-4\_C-10.DWG

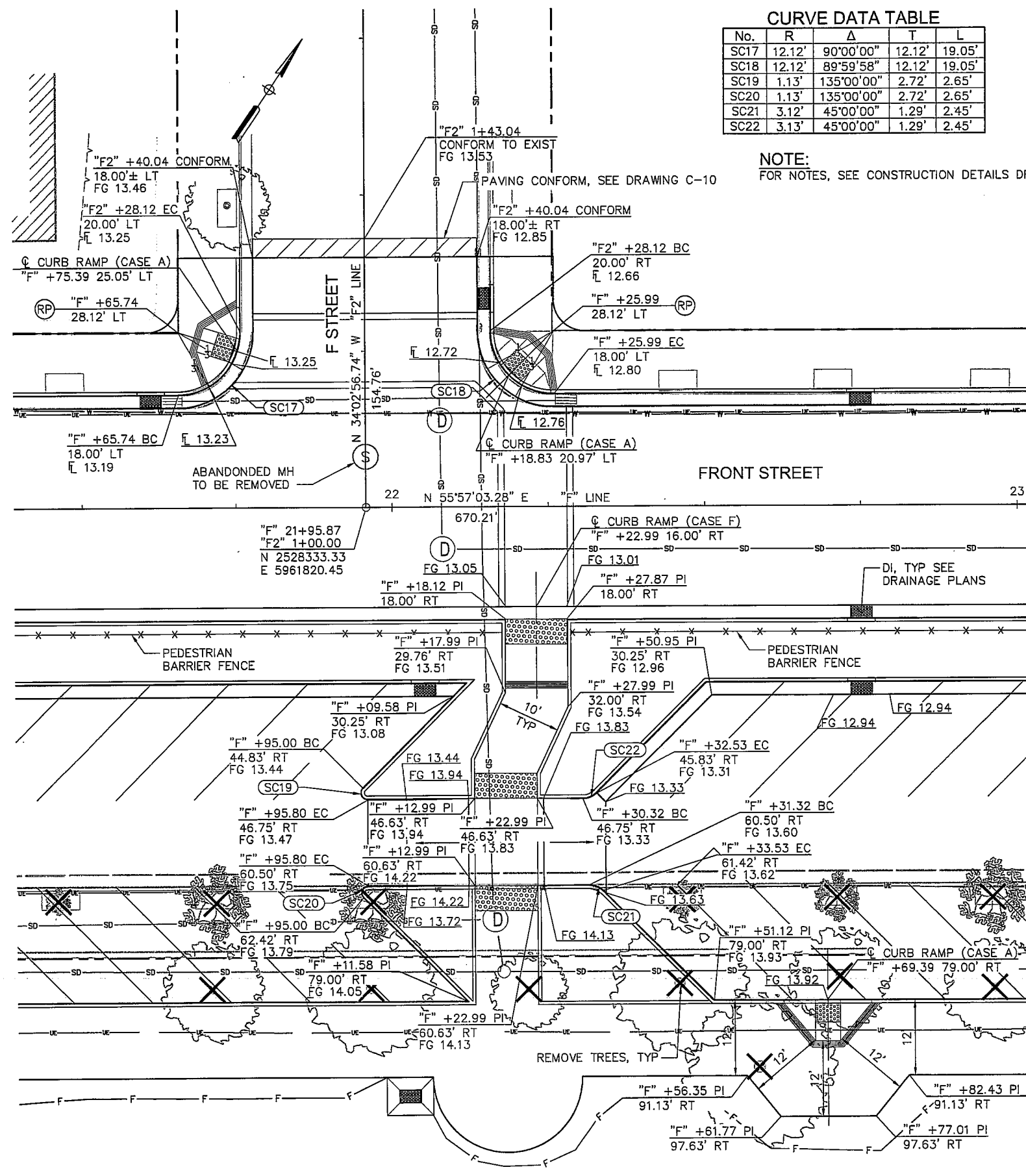
**CURVE DATA TABLE**

No.	R	Δ	T	L
SC17	12.12'	90°00'00"	12.12'	19.05'
SC18	12.12'	89°59'58"	12.12'	19.05'
SC19	1.13'	135°00'00"	2.72'	2.65'
SC20	1.13'	135°00'00"	2.72'	2.65'
SC21	3.12'	45°00'00"	1.29'	2.45'
SC22	3.13'	45°00'00"	1.29'	2.45'

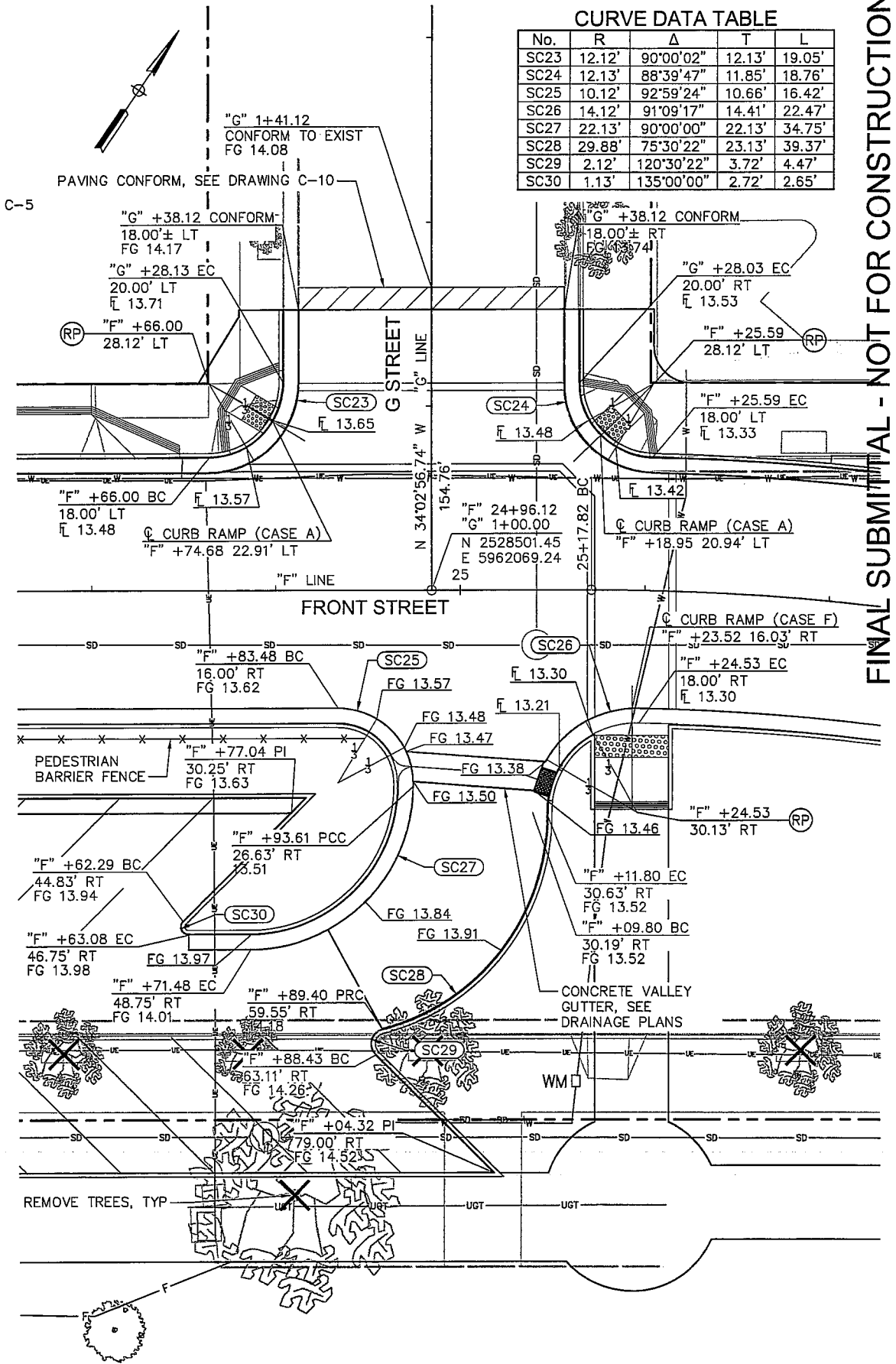
**NOTE:**  
FOR NOTES, SEE CONSTRUCTION DETAILS DRAWING C-5

**CURVE DATA TABLE**

No.	R	Δ	T	L
SC23	12.12'	90°00'02"	12.13'	19.05'
SC24	12.13'	88°39'47"	11.85'	18.76'
SC25	10.12'	92°59'24"	10.66'	16.42'
SC26	14.12'	91°09'17"	14.41'	22.47'
SC27	22.13'	90°00'00"	22.13'	34.75'
SC28	29.88'	75°30'22"	23.13'	39.37'
SC29	2.12'	120°30'22"	3.72'	4.47'
SC30	1.13'	135°00'00"	2.72'	2.65'



**FRONT ST. / "F" ST. INTERSECTION**  
SCALE: 1" = 10'



**FRONT ST. / "G" ST. INTERSECTION**  
SCALE: 1" = 10'

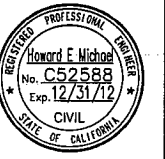
**FINAL SUBMITTAL - NOT FOR CONSTRUCTION**

NO.	DATE	APP.	REVISION



CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 464-5606 phone  
 (707) 464-4465 fax

**FRONT STREET REVITALIZATION**  
**(A STREET TO HIGHWAY 101 SOUTH)**  
**CONSTRUCTION DETAILS**



DESIGN BY: DCP  
 DRAWN BY: DCP  
 CHECKED BY: HEM  
 DATE: July 9, 2012  
 SCALE: AS SHOWN  
 JOB NO.: 11009

DRAWING NUMBER  
**C-6**  
SHEET NUMBER

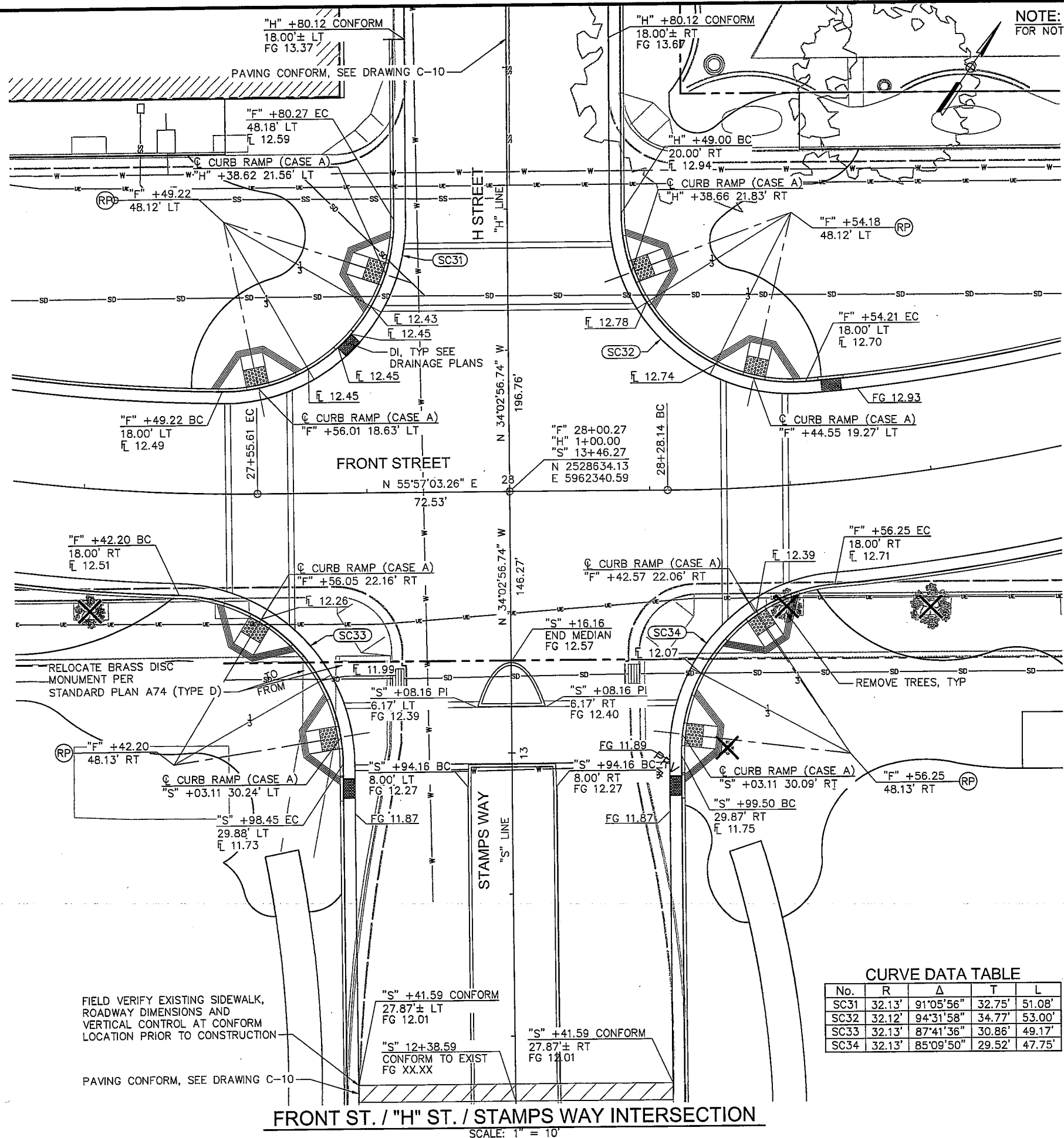
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

DESIGN OVERSIGHT  
SUPERVISION BY: \_\_\_\_\_ R.C.E. NUMBER: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

QUALITY CONTROL APPROVAL  
Q.C. REVIEW BY: \_\_\_\_\_ R.C.E. NUMBER: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670  
 30 OF 114


PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET C-4\_C-10.DWG



**CURVE DATA TABLE**

No.	R	Δ	T	L
SC31	32.13'	91°05'56"	32.75'	51.08'
SC32	32.12'	94°31'58"	34.77'	53.00'
SC33	32.13'	87°41'36"	30.86'	49.17'
SC34	32.13'	85°09'50"	29.52'	47.75'

FINAL SUBMITTAL - NOT FOR CONSTRUCTION

NO. \_\_\_\_\_ DATE \_\_\_\_\_  
 REVISION \_\_\_\_\_  
  
 CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 464-9506 phone  
 (707) 465-4405 fax

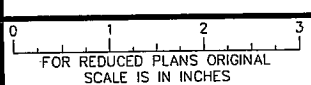
FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 CONSTRUCTION DETAILS

REGISTERED PROFESSIONAL ENGINEER  
  
 Howard E. Michael  
 No. C52588  
 Exp. 12/31/12  
 CIVIL  
 STATE OF CALIFORNIA

DESIGN BY DCP  
 DRAWN BY DCP  
 CHECKED BY HEM  
 DATE July 9, 2012  
 SCALE AS SHOWN  
 JOB NO. 11009  
 DRAWING NUMBER

C-7

SHEET NUMBER  
 31 of 114



DESIGN OVERSIGHT

SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE
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QUALITY CONTROL APPROVAL

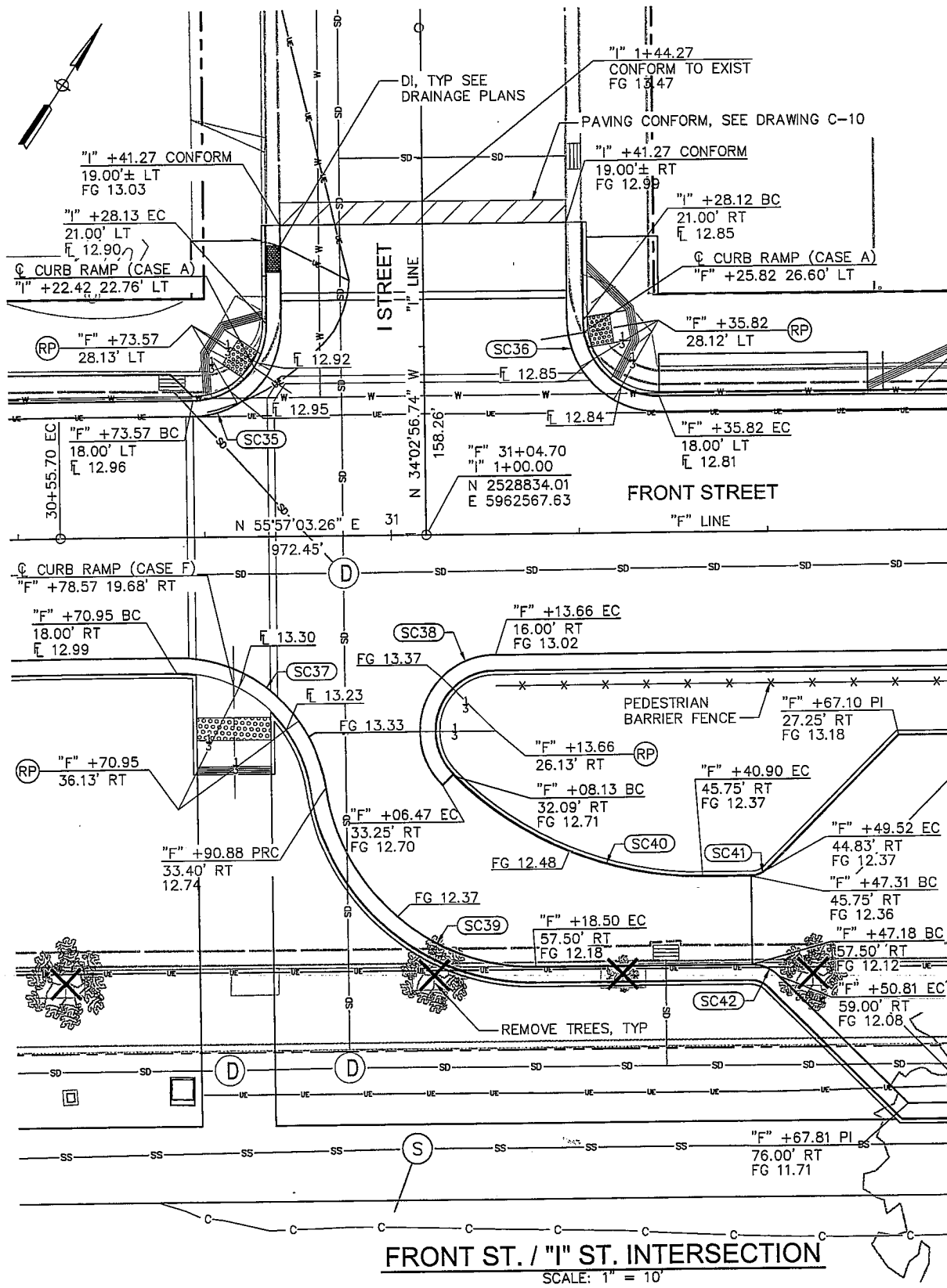
Q.C. REVIEW BY	R.C.E. NUMBER	SIGNATURE	DATE
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**dh drake haglan AND ASSOCIATES**  
 11050 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670



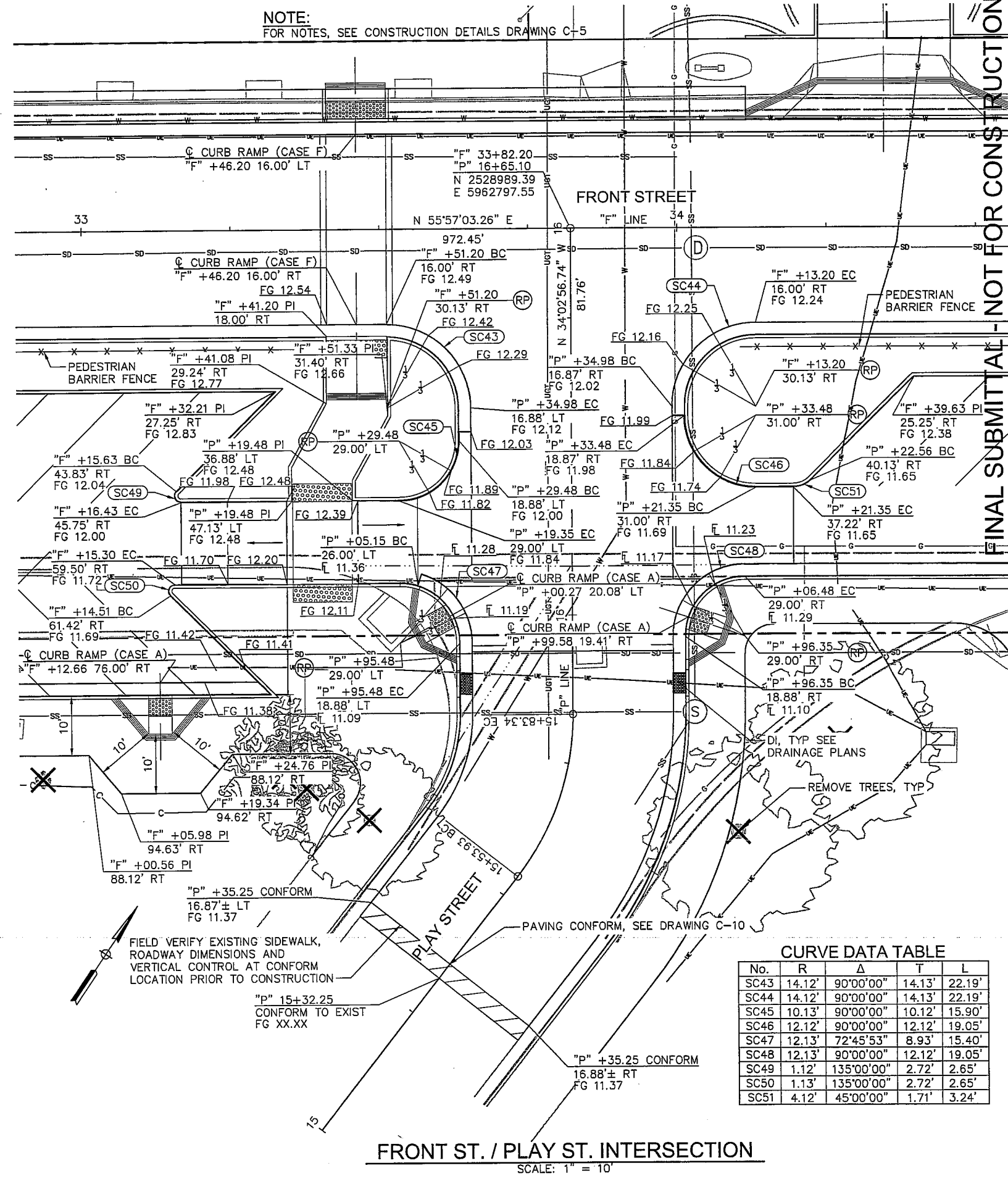
PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET 400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET C-4\_C-10.DWG

No.	R	Δ	T	L
SC35	12.12'	90°00'00"	12.13'	19.05'
SC36	12.13'	90°00'00"	12.12'	19.05'
SC37	20.12'	82°13'02"	17.56'	28.88'
SC38	10.13'	134°44'32"	24.29'	23.81'
SC39	27.88'	82°13'02"	24.32'	40.00'
SC40	46.12'	45°15'28"	19.23'	36.43'
SC41	3.13'	45°00'00"	1.29'	2.45'
SC42	5.13'	45°00'00"	2.12'	4.03'



FRONT ST. / "I" ST. INTERSECTION  
 SCALE: 1" = 10'

NOTE:  
 FOR NOTES, SEE CONSTRUCTION DETAILS DRAWING C-5



FRONT ST. / PLAY ST. INTERSECTION  
 SCALE: 1" = 10'

No.	R	Δ	T	L
SC43	14.12'	90°00'00"	14.13'	22.19'
SC44	14.12'	90°00'00"	14.13'	22.19'
SC45	10.13'	90°00'00"	10.12'	15.90'
SC46	12.12'	90°00'00"	12.12'	19.05'
SC47	12.13'	72°45'53"	8.93'	15.40'
SC48	12.13'	90°00'00"	12.12'	19.05'
SC49	1.12'	135°00'00"	2.72'	2.65'
SC50	1.13'	135°00'00"	2.72'	2.65'
SC51	4.12'	45°00'00"	1.71'	3.24'


FIELD VERIFY EXISTING SIDEWALK,  
 ROADWAY DIMENSIONS AND  
 VERTICAL CONTROL AT CONFORM  
 LOCATION PRIOR TO CONSTRUCTION

FOR REDUCED PLANS ORIGINAL  
 SCALE IS IN INCHES

DESIGN OVERSIGHT  
 SUPERVISION BY: \_\_\_\_\_ R.C.E. NUMBER: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

QUALITY CONTROL APPROVAL  
 Q.C. REVIEW BY: \_\_\_\_\_ R.C.E. NUMBER: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

**dh drake haglan AND ASSOCIATES**  
 11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95870

NO. \_\_\_\_\_ DATE APP. \_\_\_\_\_  
 REVISION \_\_\_\_\_  
  
 CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 464-3066 phone  
 (707) 464-4405 fax

FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 CONSTRUCTION DETAILS

PROFESSIONAL SEAL  
  
 Howard E. Michael  
 No. C52588  
 Exp. 12/31/12  
 CIVIL  
 STATE OF CALIFORNIA

DESIGN BY DCP  
 DRAWN BY DCP  
 CHECKED BY HEM  
 DATE July 9, 2012  
 SCALE AS SHOWN  
 JOB NO. 11009  
 DRAWING NUMBER  
**C-8**

SHEET NUMBER  
 32 of 114

FINAL SUBMITTAL - NOT FOR CONSTRUCTION

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET C-4\_C-10.DWG

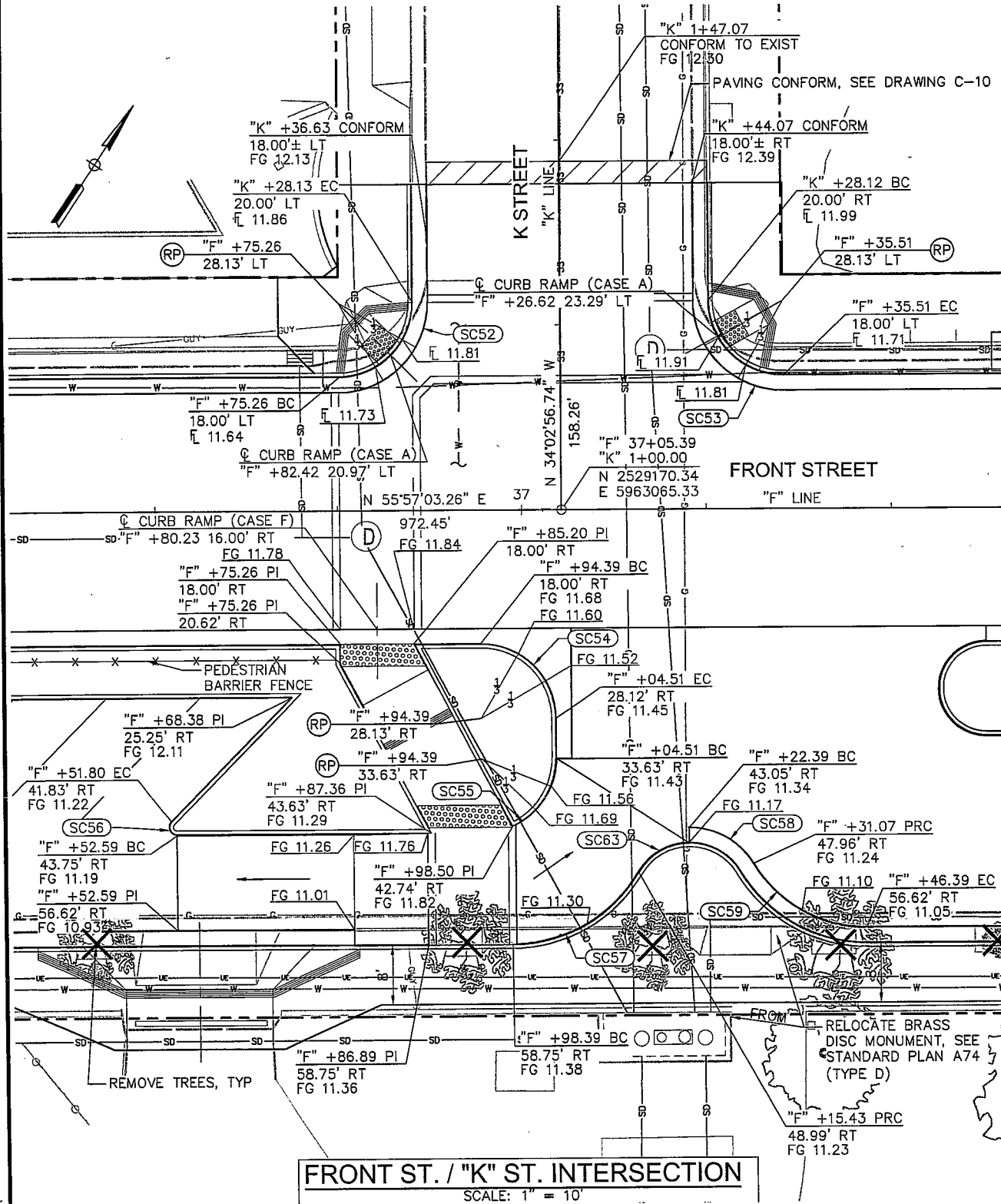
CURVE DATA TABLE

No.	R	Δ	T	L
SC52	12.12'	90°00'00"	12.12'	19.05'
SC53	12.13'	90°00'00"	12.12'	19.05'
SC54	10.12'	90°00'00"	10.12'	15.90'
SC55	10.13'	65°39'28"	6.53'	11.60'
SC56	1.12'	135°00'00"	2.72'	2.65'
SC57	19.87'	58°59'50"	11.24'	20.47'
SC58	10.13'	58°59'50"	5.73'	10.43'
SC59	17.87'	58°59'51"	10.11'	18.41'
SC63	8.13'	58°59'50"	4.60'	8.37'

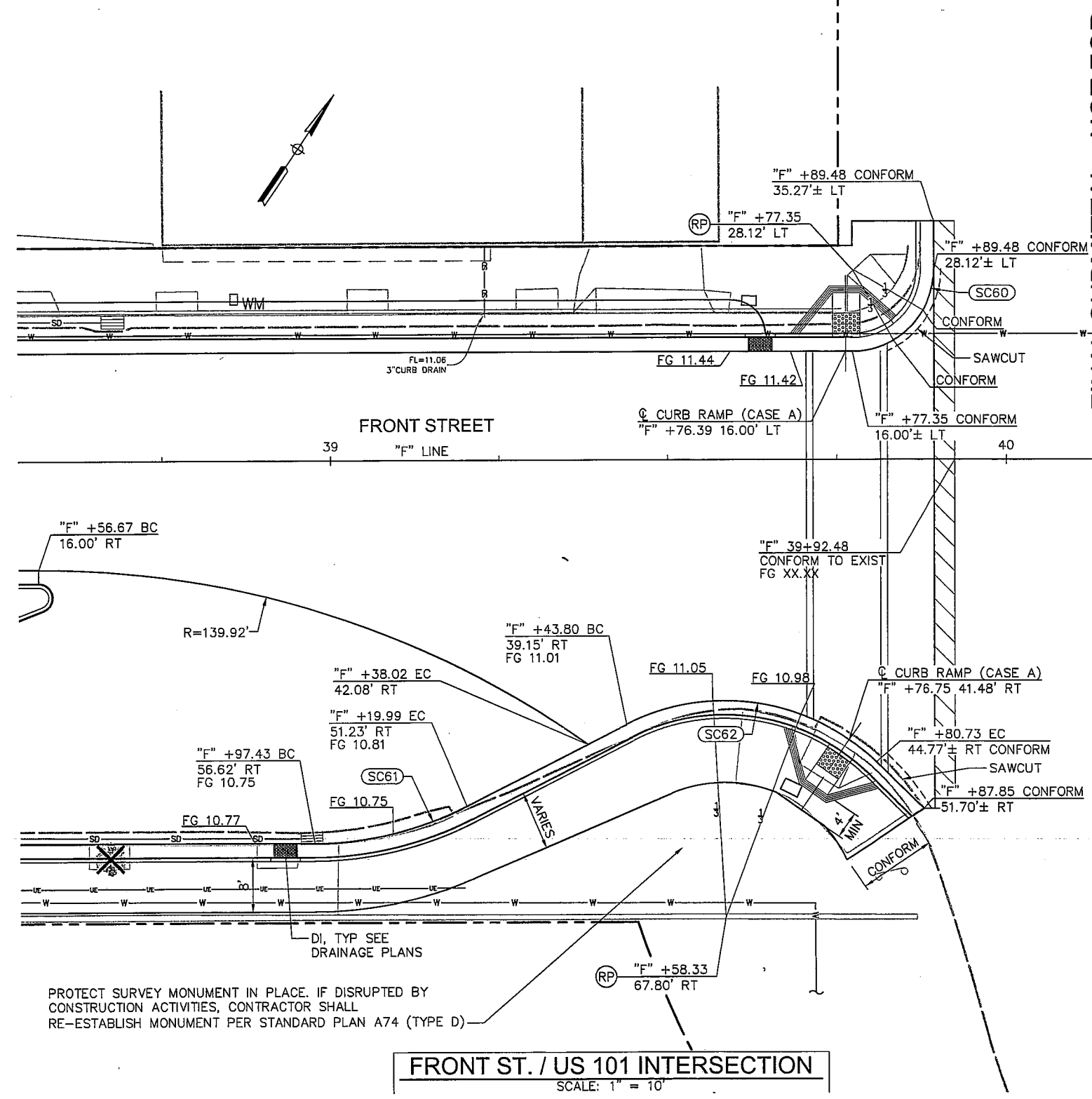
CURVE DATA TABLE

No.	R	Δ	T	L
SC60	12.12'	90°00'00"	12.12'	19.05'
SC61	49.87'	26°53'49"	11.93'	23.41'
SC62	32.13'	71°05'45"	22.96'	39.86'

NOTE:  
 FOR NOTES, SEE CONSTRUCTION DETAILS DRAWING C-5



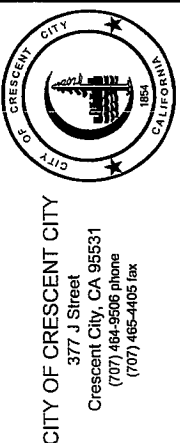
FRONT ST. / "K" ST. INTERSECTION  
 SCALE: 1" = 10'



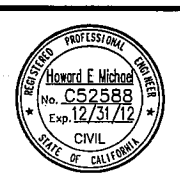
FRONT ST. / US 101 INTERSECTION  
 SCALE: 1" = 10'

FINAL SUBMITTAL - NOT FOR CONSTRUCTION

NO.	REVISION	DATE	APP.



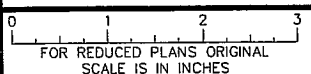
FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 CONSTRUCTION DETAILS



DESIGN BY DCP  
 DRAWN BY DCP  
 CHECKED BY HEM  
 DATE July 9, 2012  
 SCALE AS SHOWN  
 JOB NO. 11009

DRAWING NUMBER  
**C-9**

SHEET NUMBER  
 33 OF 114



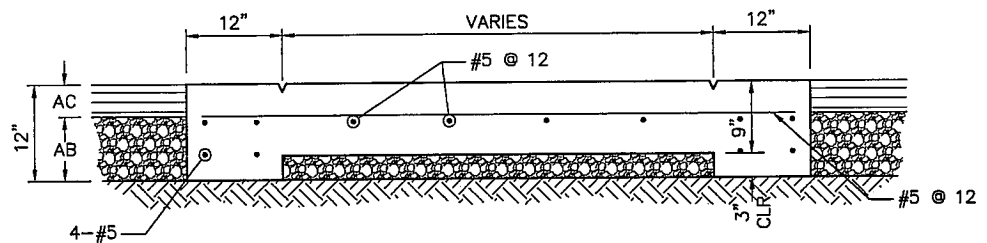
DESIGN OVERSIGHT  
 SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

QUALITY CONTROL APPROVAL  
 Q.C. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

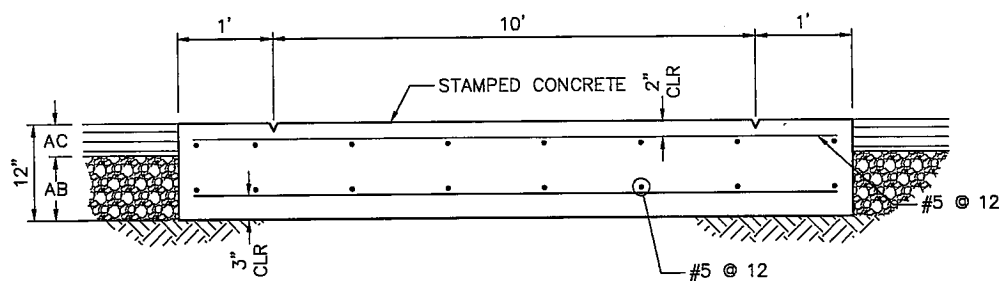


11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670

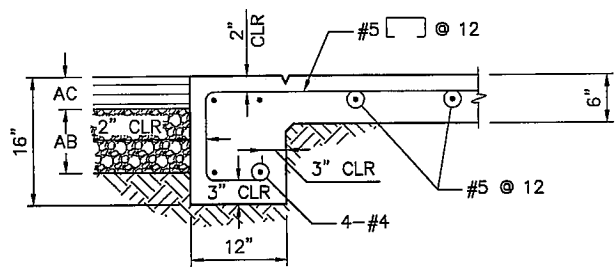
NOTE:  
FOR NOTES, SEE CONSTRUCTION DETAILS DRAWING C-5



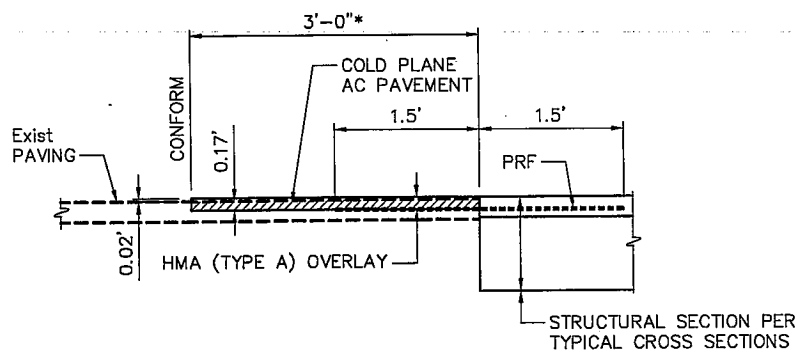
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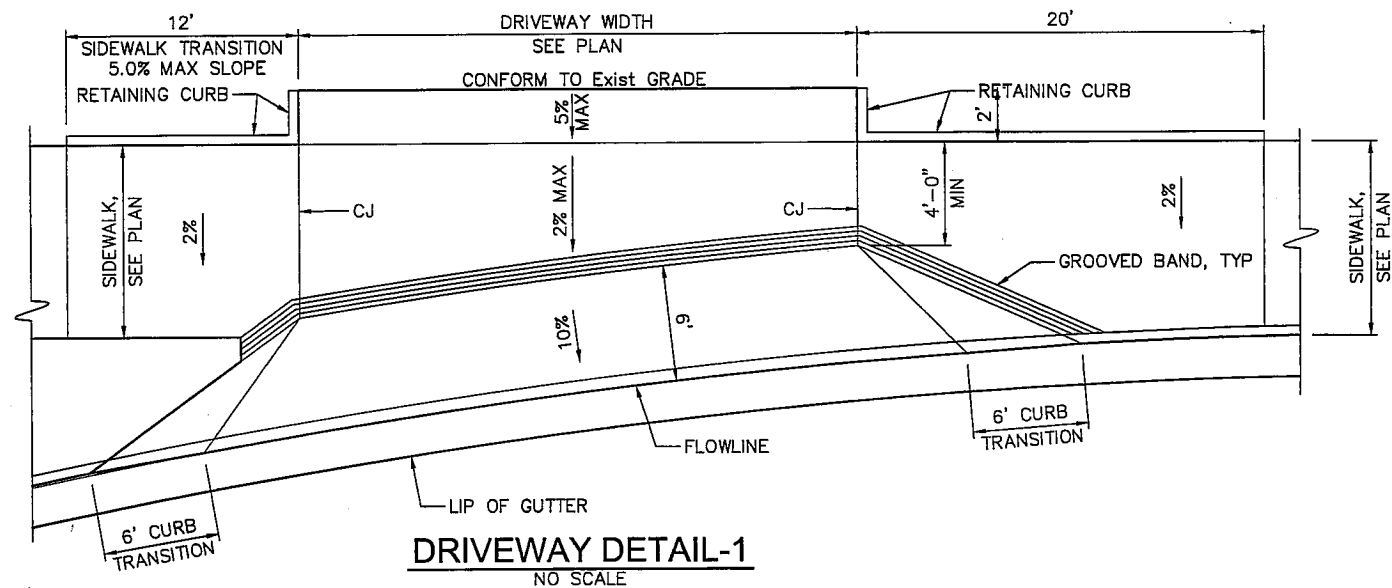
**CROSSWALK DETAIL**  
NO SCALE



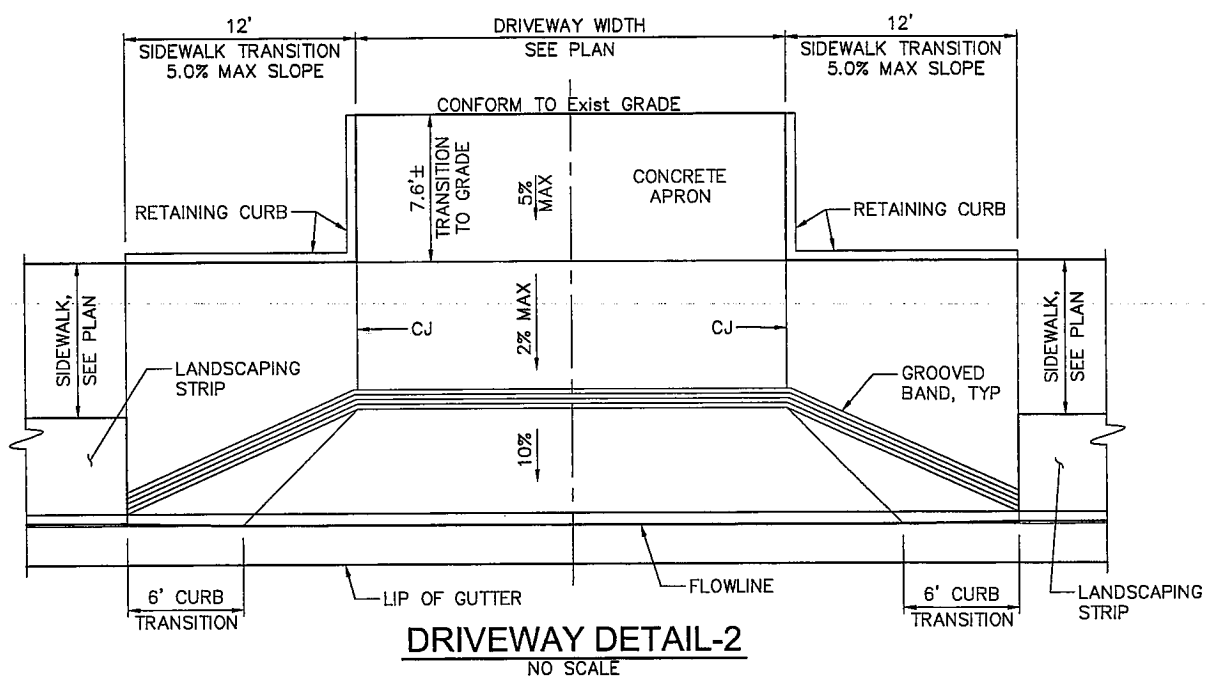
**EDGE DETAIL**  
NO SCALE



\* RELATIVE TO DIRECTION OF TRAVEL  
**PAVING CONFORM**  
NO SCALE



**DRIVEWAY DETAIL-1**  
NO SCALE



**DRIVEWAY DETAIL-2**  
NO SCALE

FINAL SUBMITTAL - NOT FOR CONSTRUCTION



CITY OF CRESCENT CITY  
317 J Street  
Crescent City, CA 95531  
(707) 465-4405 fax

FRONT STREET REVITALIZATION  
(A STREET TO HIGHWAY 101 SOUTH)  
CONSTRUCTION DETAILS



DESIGN BY DCP  
DRAWN BY DCP  
CHECKED BY HEM  
DATE July 9, 2012  
SCALE AS SHOWN  
JOB NO. 11009

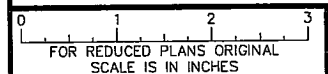
DRAWING NUMBER

**C-10**

SHEET NUMBER

34 of 114

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL FRONT STREET C-4\_C-10.DWG



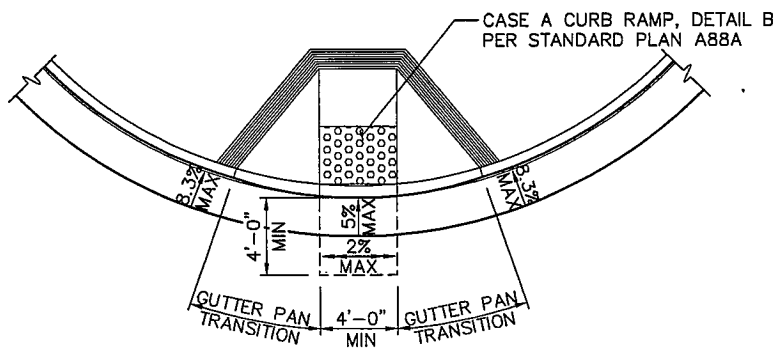
DESIGN OVERSIGHT  
SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

QUALITY CONTROL APPROVAL  
Q.C. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

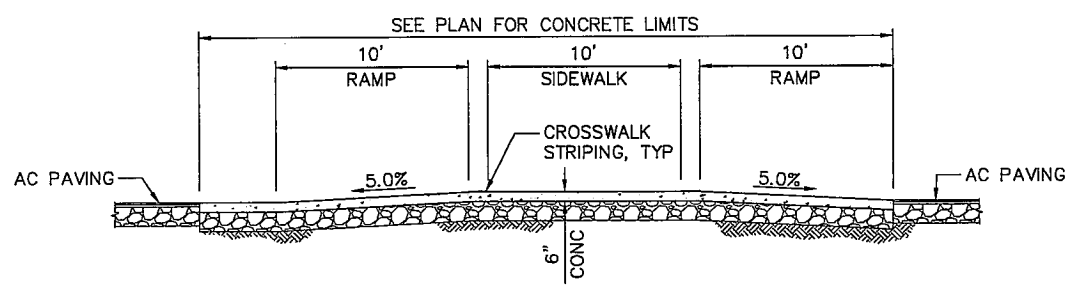
**dh drake haglan AND ASSOCIATES**  
11060 White Rock Road, Suite 200  
Rancho Cordova, CA 95670

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET - 400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET C-4\_C-10.DWG

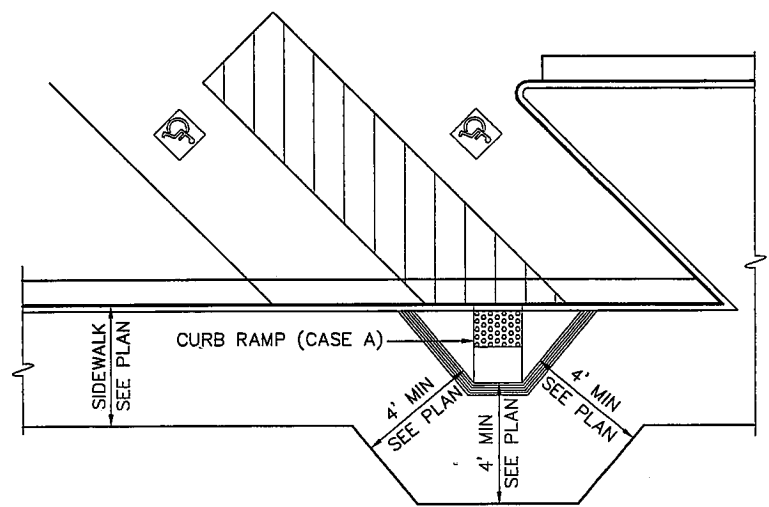
**NOTE:**  
 FOR NOTES, SEE CONSTRUCTION DETAILS DRAWING C-5



**CURB RAMP DETAIL**  
 NO SCALE



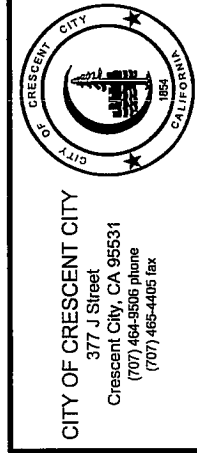
**RAISED SIDEWALK CROSSING RAMP DETAIL**  
 NO SCALE



**NOTE:**  
 FOR DETAILS NOT SHOWN HERE, SEE STANDARD PLAN A90A. SEE PDD-2 FOR STRIPING DETAILS  
**45° ADA VAN ACCESSIBLE PARKING**  
 NO SCALE

**FINAL SUBMITTAL - NOT FOR CONSTRUCTION**

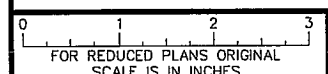
NO.	REVISION	DATE	APP.



**FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 CONSTRUCTION DETAILS**



DESIGN BY	DCP
DRAWN BY	DCP
CHECKED BY	HEM
DATE	July 9, 2012
SCALE	AS SHOWN
JOB NO.	11009
DRAWING NUMBER	<b>C-11</b>
SHEET NUMBER	35 OF 114



DESIGN OVERSIGHT  
 SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

QUALITY CONTROL APPROVAL  
 Q.C. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**dh drake haglan AND ASSOCIATES**  
 11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670



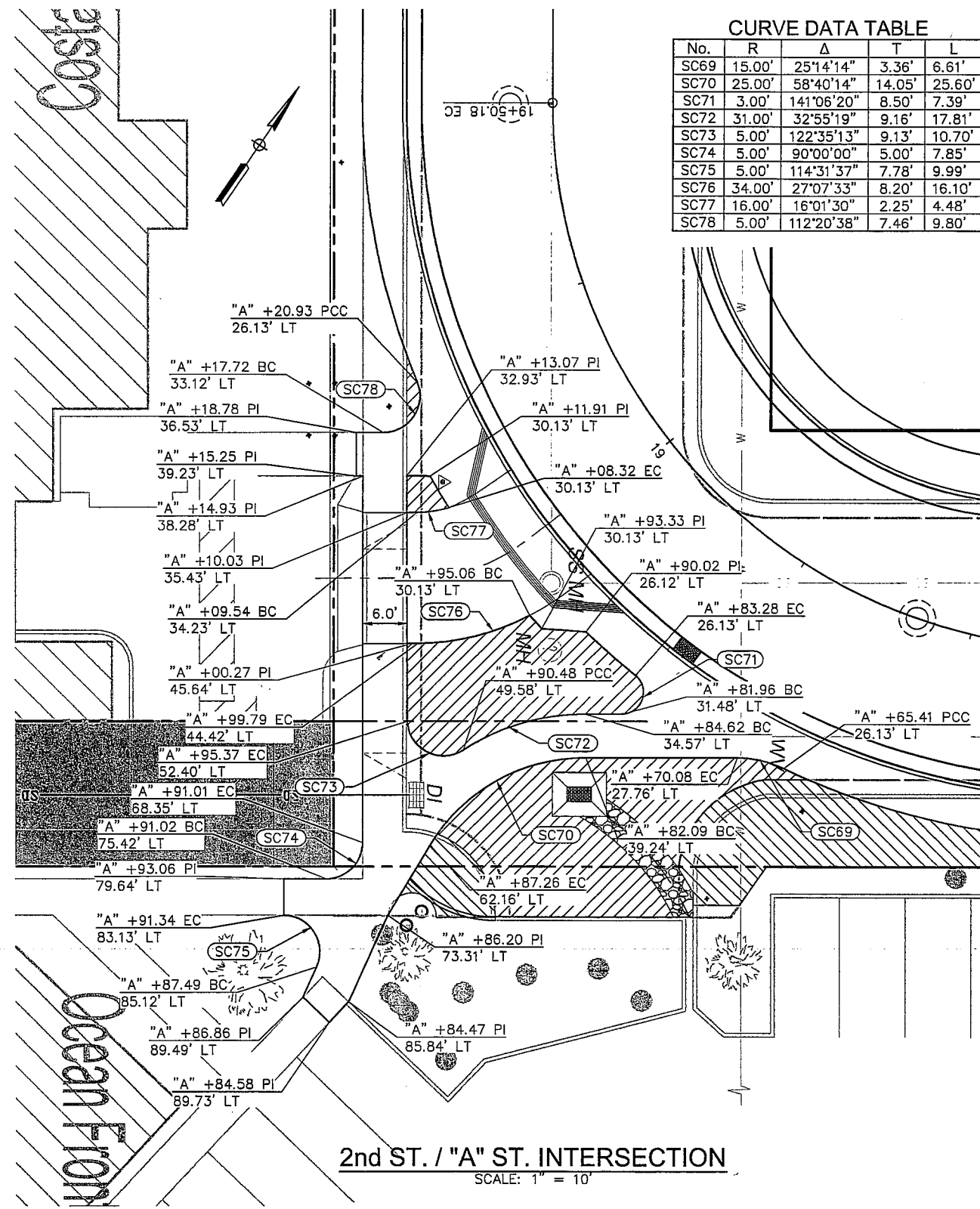
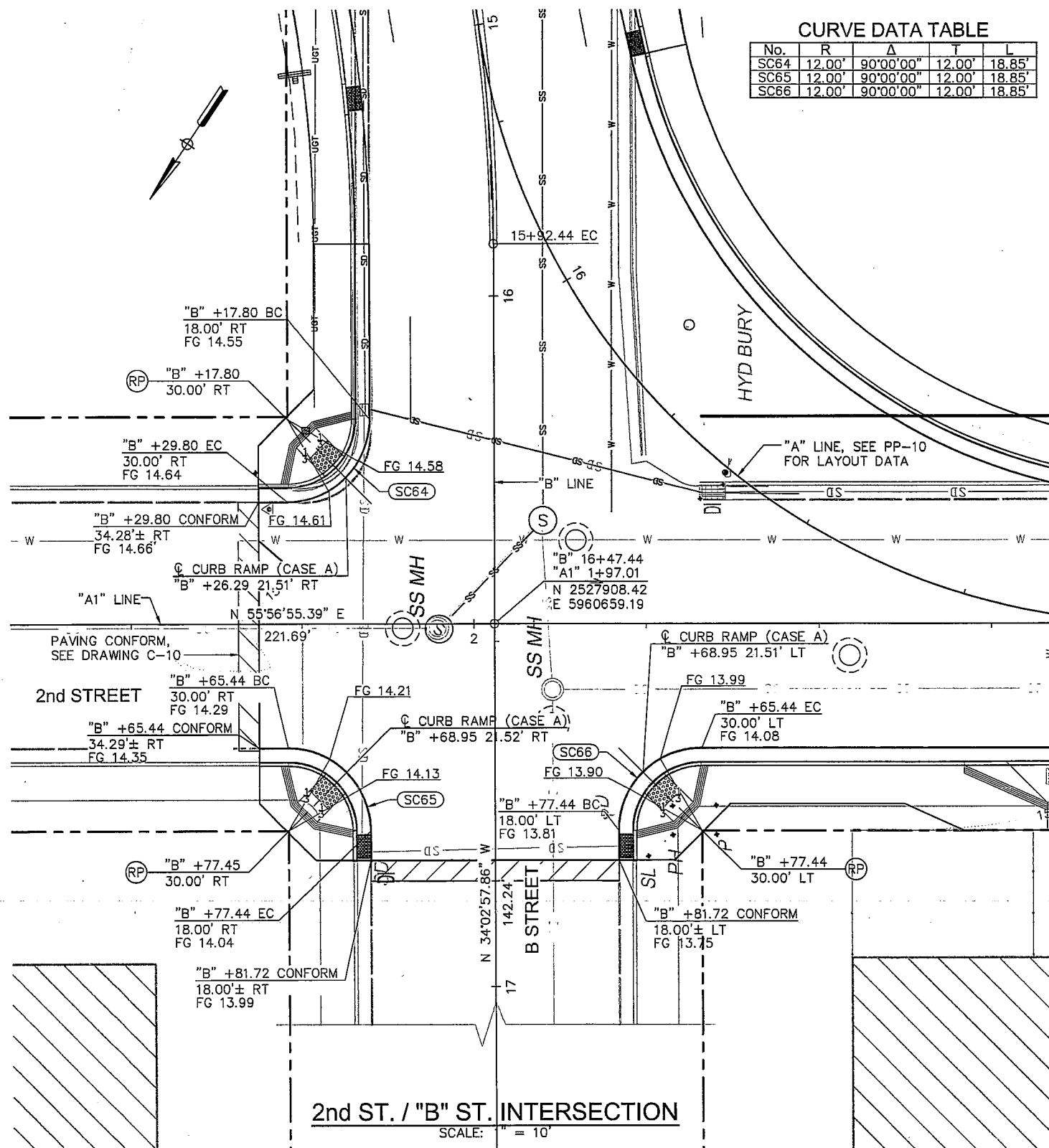
NOTE:  
FOR NOTES, SEE CONSTRUCTION DETAILS DRAWING C-5

CURVE DATA TABLE

No.	R	Δ	T	L
SC64	12.00'	90°00'00"	12.00'	18.85'
SC65	12.00'	90°00'00"	12.00'	18.85'
SC66	12.00'	90°00'00"	12.00'	18.85'

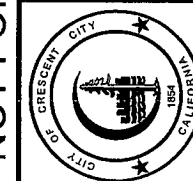
CURVE DATA TABLE

No.	R	Δ	T	L
SC69	15.00'	25°14'14"	3.36'	6.61'
SC70	25.00'	58°40'14"	14.05'	25.60'
SC71	3.00'	141°06'20"	8.50'	7.39'
SC72	31.00'	32°55'19"	9.16'	17.81'
SC73	5.00'	122°35'13"	9.13'	10.70'
SC74	5.00'	90°00'00"	5.00'	7.85'
SC75	5.00'	114°31'37"	7.78'	9.99'
SC76	34.00'	27°07'33"	8.20'	16.10'
SC77	16.00'	16°01'30"	2.25'	4.48'
SC78	5.00'	112°20'38"	7.46'	9.80'



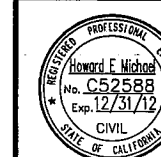
FINAL SUBMITTAL - NOT FOR CONSTRUCTION

NO.	REVISION	DCP	DATE	APP



CITY OF CRESCENT CITY  
377 J Street  
Crescent City, CA 95531  
(707) 464-9546 phone  
(707) 464-4405 fax

FRONT STREET REVITALIZATION  
(A STREET TO HIGHWAY 101 SOUTH)  
CONSTRUCTION DETAILS



DESIGN BY DCP  
DRAWN BY DCP  
CHECKED BY HEM  
DATE July 9, 2012  
SCALE AS SHOWN  
JOB NO. 11009

DRAWING NUMBER  
**C-13**  
SHEET NUMBER

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET C-4\_C-10.DWG

0 1 2 3  
FOR REDUCED PLANS ORIGINAL  
SCALE IS IN INCHES

DESIGN OVERSIGHT  
SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

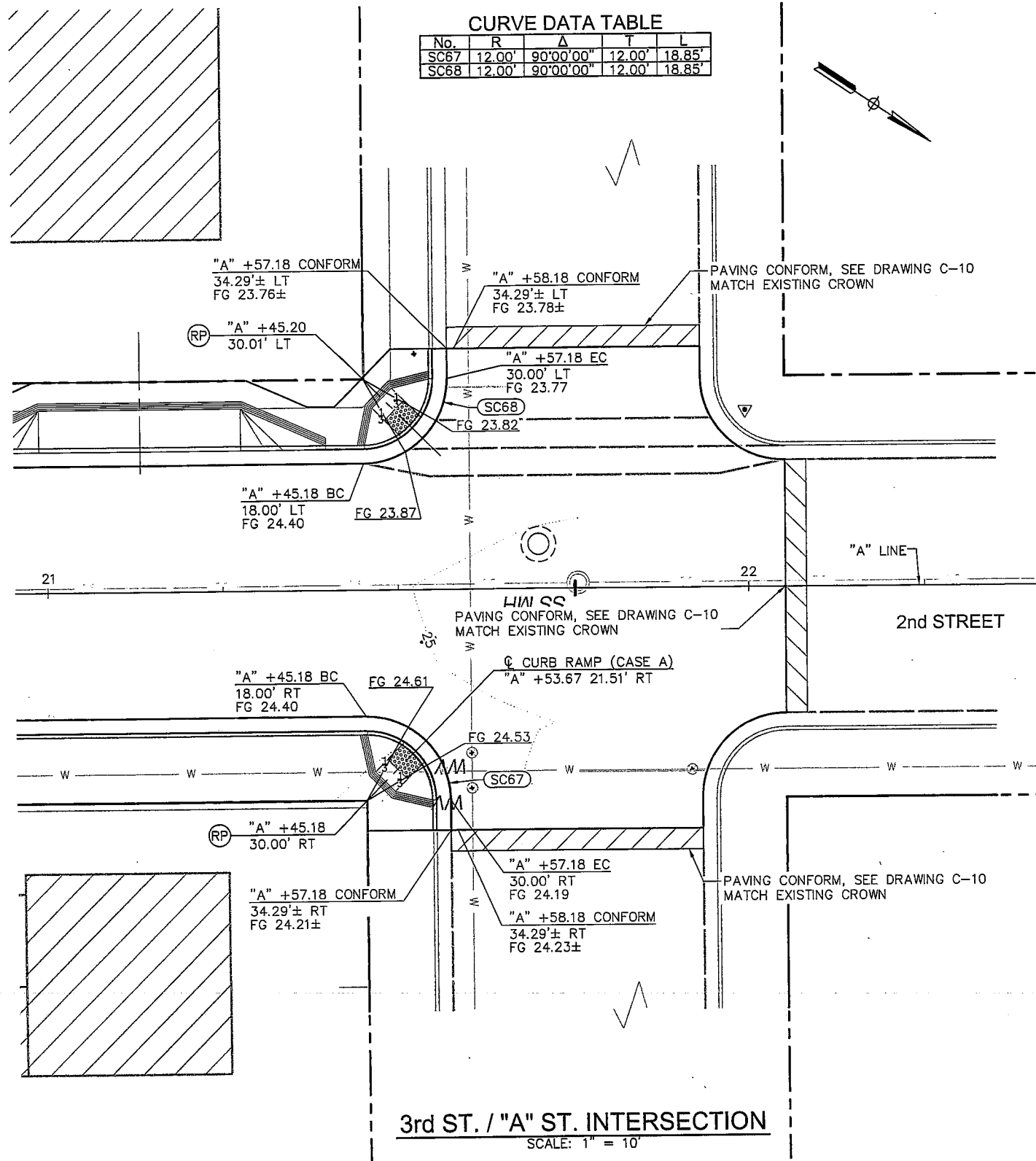
QUALITY CONTROL APPROVAL  
Q.C. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**dh drake haglan AND ASSOCIATES**  
11080 White Rock Road, Suite 200  
Rancho Cordova, CA 95670

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET C-4\_C-10.DWG

NOTE:  
FOR NOTES, SEE CONSTRUCTION DETAILS DRAWING C-5

No.	R	Δ	T	L
SC67	12.00'	90°00'00"	12.00'	18.85'
SC68	12.00'	90°00'00"	12.00'	18.85'



3rd ST. / "A" ST. INTERSECTION  
SCALE: 1" = 10'

FINAL SUBMITTAL - NOT FOR CONSTRUCTION

NO.	REVISION	DCP	DATE	APP



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 377 J Street  
 Crescent City, CA 95531  
 (707) 464-9506 phone  
 (707) 465-4405 fax

FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 CONSTRUCTION DETAILS



DESIGN BY DCP  
 DRAWN BY DCP  
 CHECKED BY HEM  
 DATE July 9, 2012  
 SCALE AS SHOWN  
 JOB NO. 11009

DRAWING NUMBER  
**C-14**  
 SHEET NUMBER

0 1 2 3  
 FOR REDUCED PLANS ORIGINAL  
 SCALE IS IN INCHES

DESIGN OVERSIGHT  
 SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

QUALITY CONTROL APPROVAL  
 Q.C. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

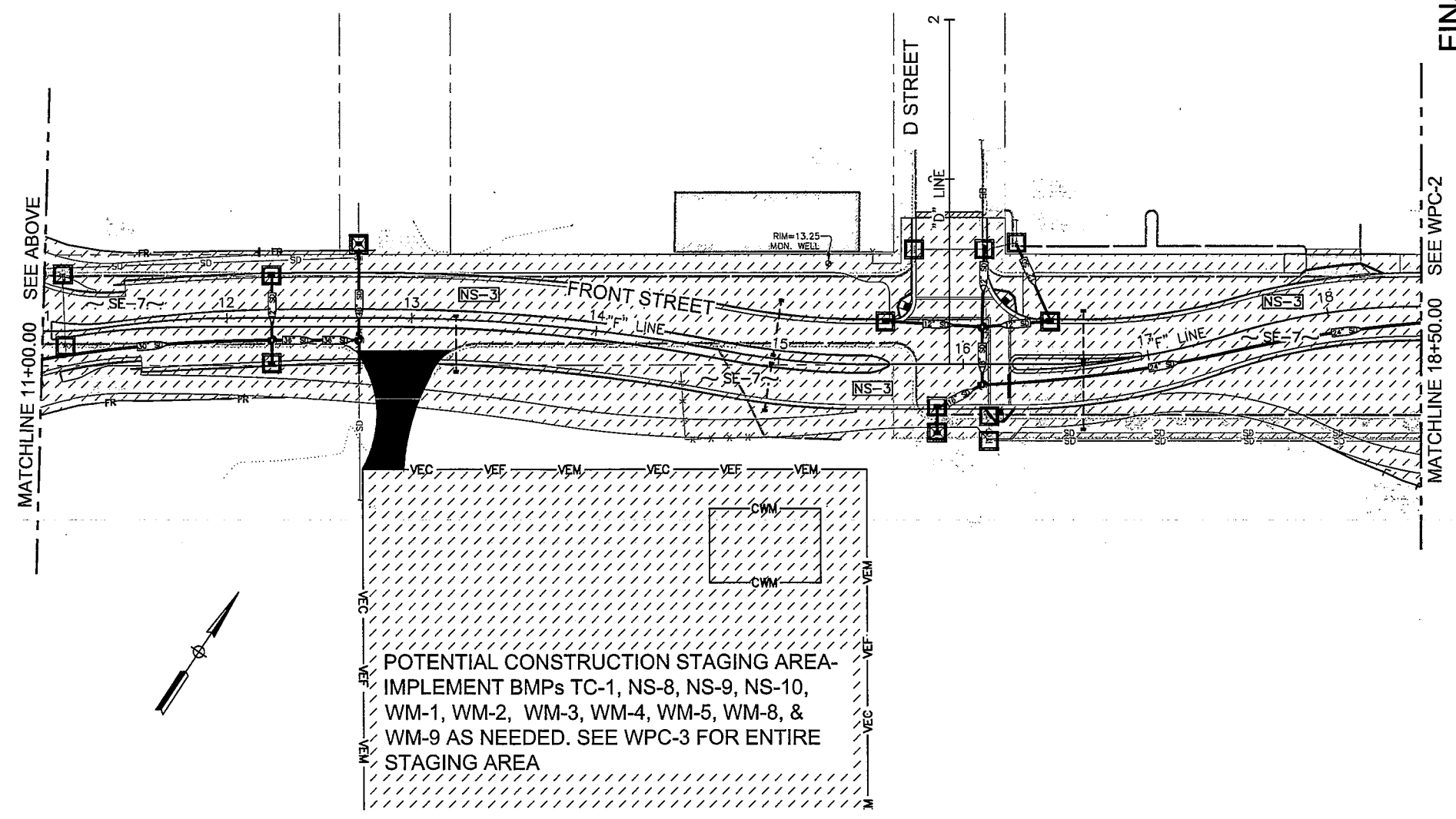
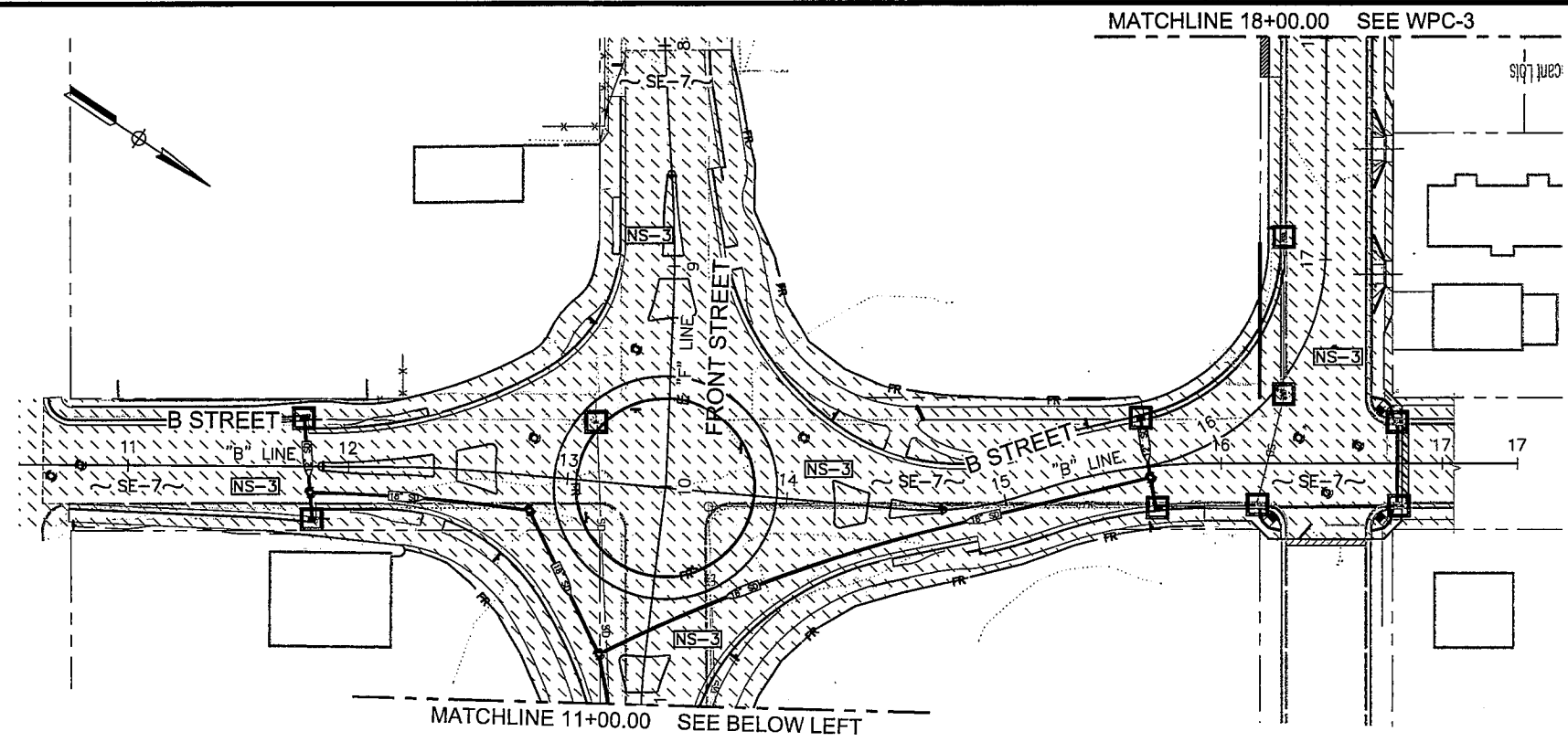
**dh drake haglan AND ASSOCIATES**  
 11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670  
 38 OF 114

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET WPC-1\_WPC-3.DWG

- LEGEND:**
- SC-5 FIBER ROLLS
  - ~ SE-7 ~ SC-7 STREET SWEEPING AND VACUUMING
  - SC-10 STORM DRAIN INLET PROTECTION
  - ▨ WE-1 WIND EROSION CONTROL
  - TC-1 STABILIZED CONSTRUCTION ENTRANCE/EXIT
  - NS-3 NS-3 PAVING AND GRINDING OPERATIONS
  - VEC — NS-8 VEHICLE AND EQUIPMENT CLEANING
  - VEF — NS-9 VEHICLE AND EQUIPMENT FUELING
  - VEM — NS-10 VEHICLE AND EQUIPMENT MAINTENANCE
  - CWM — WM-8 CONCRETE WASTE MANAGEMENT

**WATER POLLUTION CONTROL NOTES:**

1. THE INFORMATION ON THESE PLANS IS INTENDED TO BE USED AS A GUIDELINE FOR THE CONTRACTOR AND SUBCONTRACTORS TO INSTALL WATER POLLUTION CONTROL DEVICES AT GENERAL LOCATIONS THROUGHOUT THE SITE. THESE DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE NARRATIVE SECTION OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
2. FIELD CONDITIONS MAY NECESSITATE MODIFICATIONS TO THESE DRAWINGS.
3. SEE STAGE CONSTRUCTION PLANS FOR LOCATION AT LIMITS OF CONSTRUCTION.
4. LINEAR SEDIMENT CONTROLS (FIBER ROLLS) WILL BE DEPLOYED ON DISTURBED SLOPES. THE CONTRACTOR SHALL APPLY LINEAR SEDIMENT CONTROLS ALONG THE TOE OF THE SLOPE AND AT THE GRADE BREAKS OF THE SLOPE. ADDITIONALLY, LINEAR SEDIMENT CONTROLS WILL BE USED AS A PERIMETER CONTROL TO CONTAIN SEDIMENT WITHIN THE PROJECT AREA.
5. THE CONTRACTOR SHALL INSPECT ALL IMMEDIATE ACCESS ROADS DAILY. THE CONTRACTOR SHALL REMOVE ANY SEDIMENT OR OTHER CONSTRUCTION ACTIVITY RELATED MATERIALS THAT ARE DEPOSITED ON THE ROADS BY VACUUMING OR SWEEPING ON A DAILY BASIS (WHEN NECESSARY) AND PRIOR TO ANY RAIN EVENT.
6. STORM DRAIN INLETS DOWNGRADIENT OF DISTURBED SOIL AREAS WILL BE PROTECTED.
7. A STABILIZED CONSTRUCTION ENTRANCE/EXIT WILL BE CONSTRUCTED. ADDITIONAL ENTRANCES/EXITS WILL BE CONSTRUCTED AS NEEDED. CONSTRUCTION ACTIVITY TO AND FROM THE PROJECT WILL BE LIMITED TO THESE STABILIZED CONSTRUCTION ENTRANCES/EXITS.
8. A STAGING AREA WILL BE DESIGNATED AT THE PROJECT SITE BY THE PROJECT MANAGER. BMPs SELECTED FOR THE CONSTRUCTION SITE WILL ALSO BE IMPLEMENTED IN THE STAGING AREA. SPECIAL ATTENTION TO THE FOLLOWING BMPs WILL BE TAKEN AT THE STAGING AREA: TC-1, NS-8, NS-9, NS-10, WM-1, WM-2, WM-3, WM-4, WM-5, WM-8, AND WM-9.
9. ANY STOCKPILES WILL BE LOCATED A MINIMUM OF 50 FEET AWAY FROM CONCENTRATED FLOWS OF STORM WATER, DRAINAGE COURSES, AND INLETS. ALL STOCKPILES SHALL BE BERMED. ADDITIONALLY, STOCKPILES WILL BE COVERED AT ALL TIMES (TO PROTECT THEM FROM THE WIND AND RAIN) WHEN THEY ARE NOT ACTIVELY BEING USED. STOCKPILES THAT ARE DESTABILIZED DURING CONSTRUCTION ACTIVITIES WILL BE SPRAYED WITH WATER AS NEEDED FOR DUST CONTROL.
10. AN ABOVE GRADE OR MOBIL CONCRETE WASHOUT SHALL BE CONSTRUCTED OR PLACED AT THE STAGING AREA IF CONCRETE TRUCKS OR CONCRETE EQUIPMENT WILL BE WASHED ON-SITE. THE WASHOUT WILL BE LOCATED A MINIMUM 50 FEET AWAY FROM CONCENTRATED FLOWS OF STORM WATER, DRAINAGE COURSES, AND INLETS. ADDITIONAL WASHOUTS WILL BE UTILIZED AS NEEDED.
11. A LICENSED SERVICE WILL DELIVER AND MAINTAIN PORTABLE RESTROOMS TO THE PROJECT AREA IF NEEDED. THE RESTROOMS WILL BE LOCATED AWAY FROM DRAINAGE FACILITIES ON LEVEL HARD-PAKED OR PAVED SURFACES.
12. STORM DRAIN INLETS TO BE ABANDONED OR REMOVED SHALL BE PROTECTED UNTIL ABANDONMENT OR REMOVAL IS COMPLETE.



**FINAL SUBMITTAL - NOT FOR CONSTRUCTION**

NO.	REVISION	DCP	DATE	APP

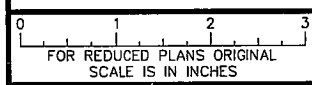
CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 464-8506 phone  
 (707) 464-4605 fax

**FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 WATER POLLUTION CONTROL PLAN**

DESIGN BY	DCP
DRAWN BY	DCP
CHECKED BY	HEM
DATE	July 9, 2012
SCALE	1" = 40'
JOB NO.	11009

DRAWING NUMBER  
**WPC-1**

SHEET NUMBER  
39 OF 114

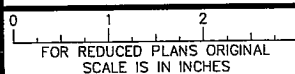
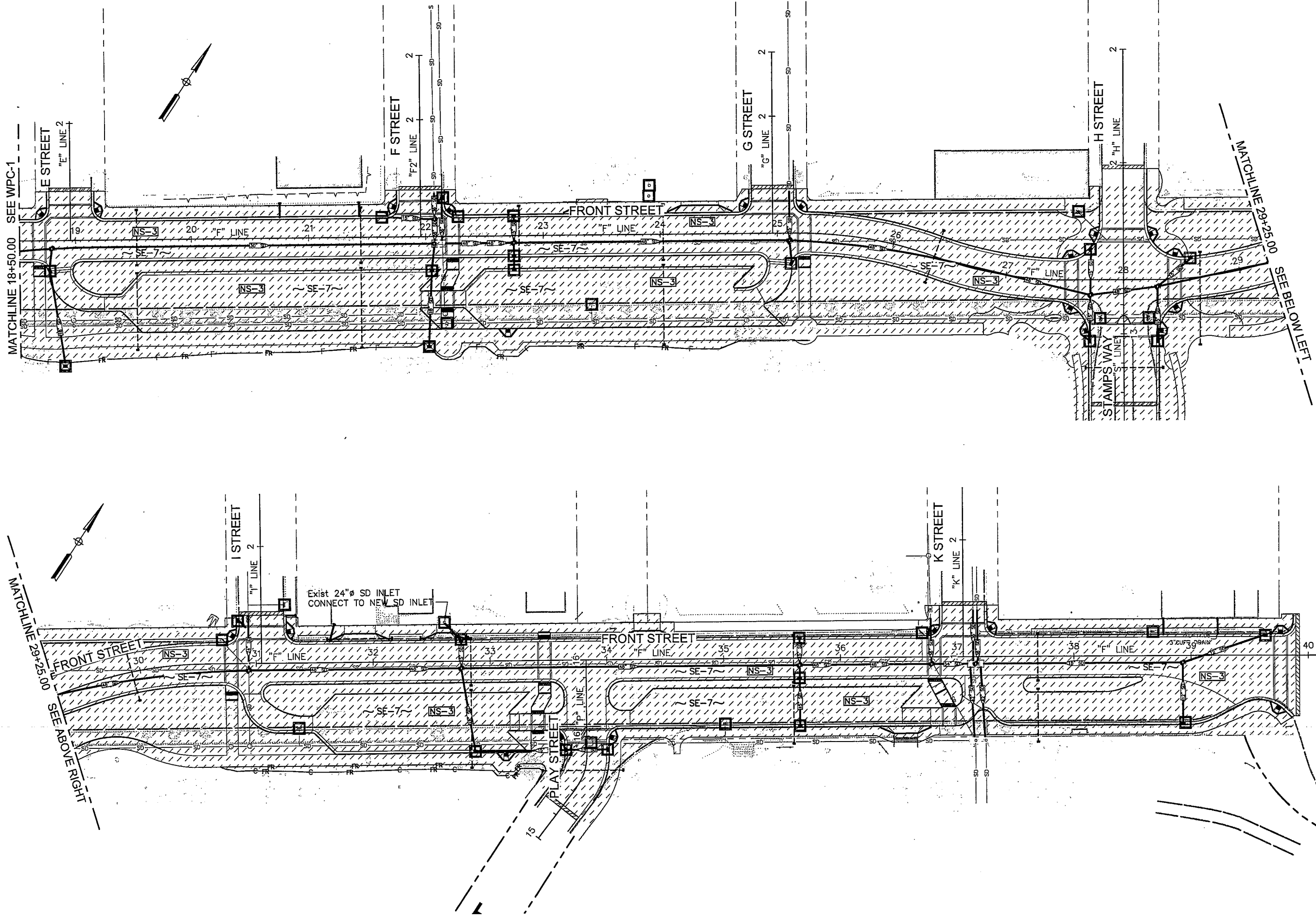


DESIGN OVERSIGHT		QUALITY CONTROL APPROVAL	
SUPERVISION BY		Q.C. REVIEW BY	
R.C.E. NUMBER		R.C.E. NUMBER	
SIGNATURE		SIGNATURE	
DATE		DATE	

11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670



PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET WPC-1\_WPC-3.DWG



DESIGN OVERSIGHT

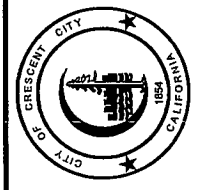
SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

QUALITY CONTROL APPROVAL

Q.C. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**dh drake haglan AND ASSOCIATES** 11050 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670

NO.	REVISION	DCP	DATE	APP



CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 464-3500 phone  
 (707) 465-4405 fax

**FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 WATER POLLUTION CONTROL PLAN**



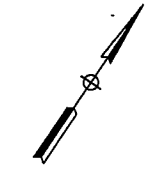
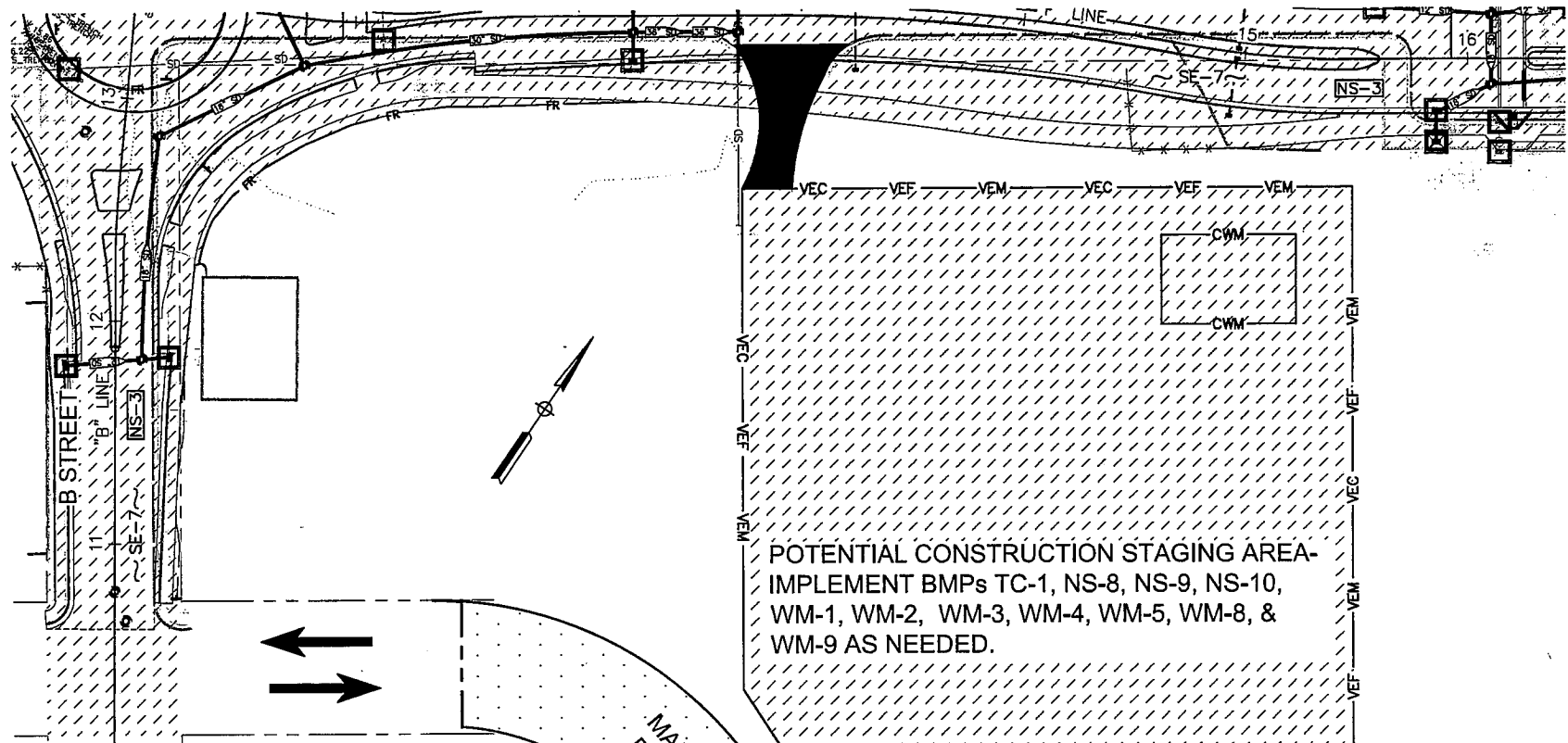
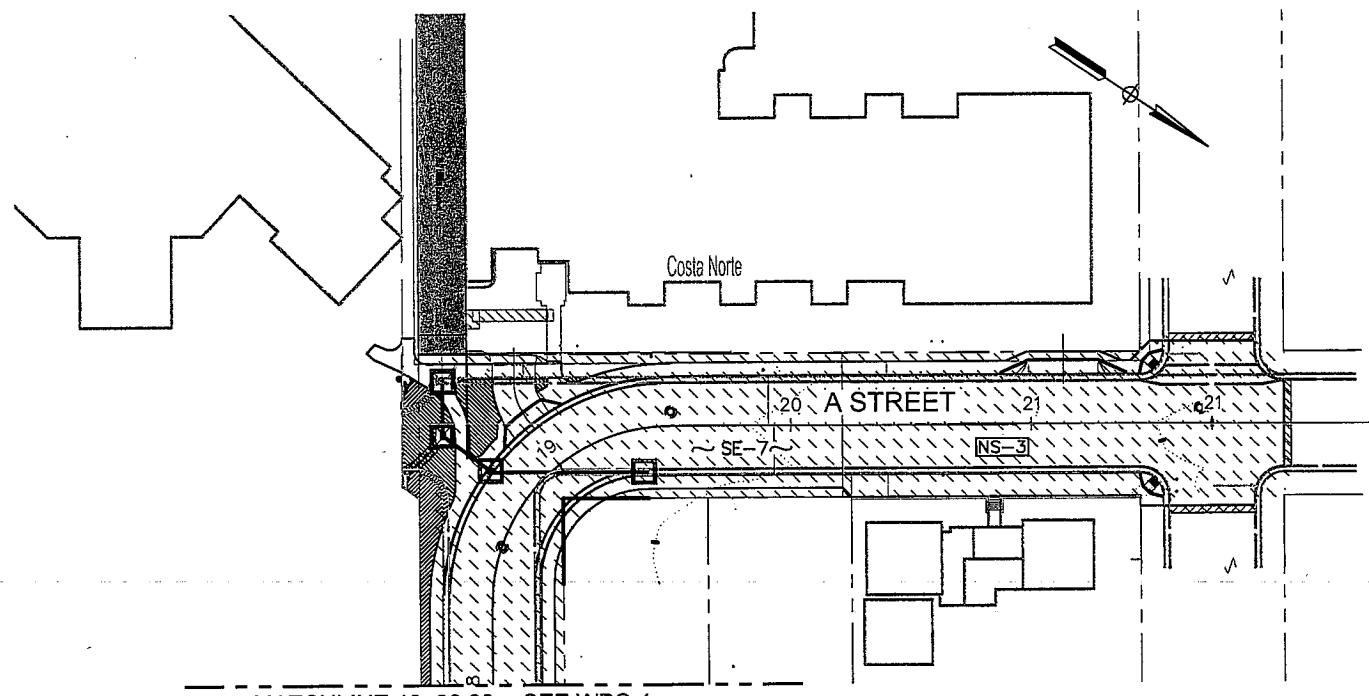
DESIGN BY DCP  
 DRAWN BY DCP  
 CHECKED BY HEM  
 DATE July 9, 2012  
 SCALE 1" = 40'  
 JOB NO. 11009

DRAWING NUMBER  
**WPC-2**

SHEET NUMBER  
 40 OF 114

**FINAL SUBMITTAL - NOT FOR CONSTRUCTION**

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET WPC-1\_WPC-3.DWG



MAINTAIN  
DETOUR

HOWE DRIVE

FINAL SUBMITTAL - NOT FOR CONSTRUCTION



CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 465-4405 fax

FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 WATER POLLUTION CONTROL PLAN



DESIGN BY DCP  
 DRAWN BY DCP  
 CHECKED BY HEM  
 DATE July 9, 2012  
 SCALE 1" = 40'  
 JOB NO. 11009

DRAWING NUMBER  
**WPC-3**

SHEET NUMBER  
 41 of 114

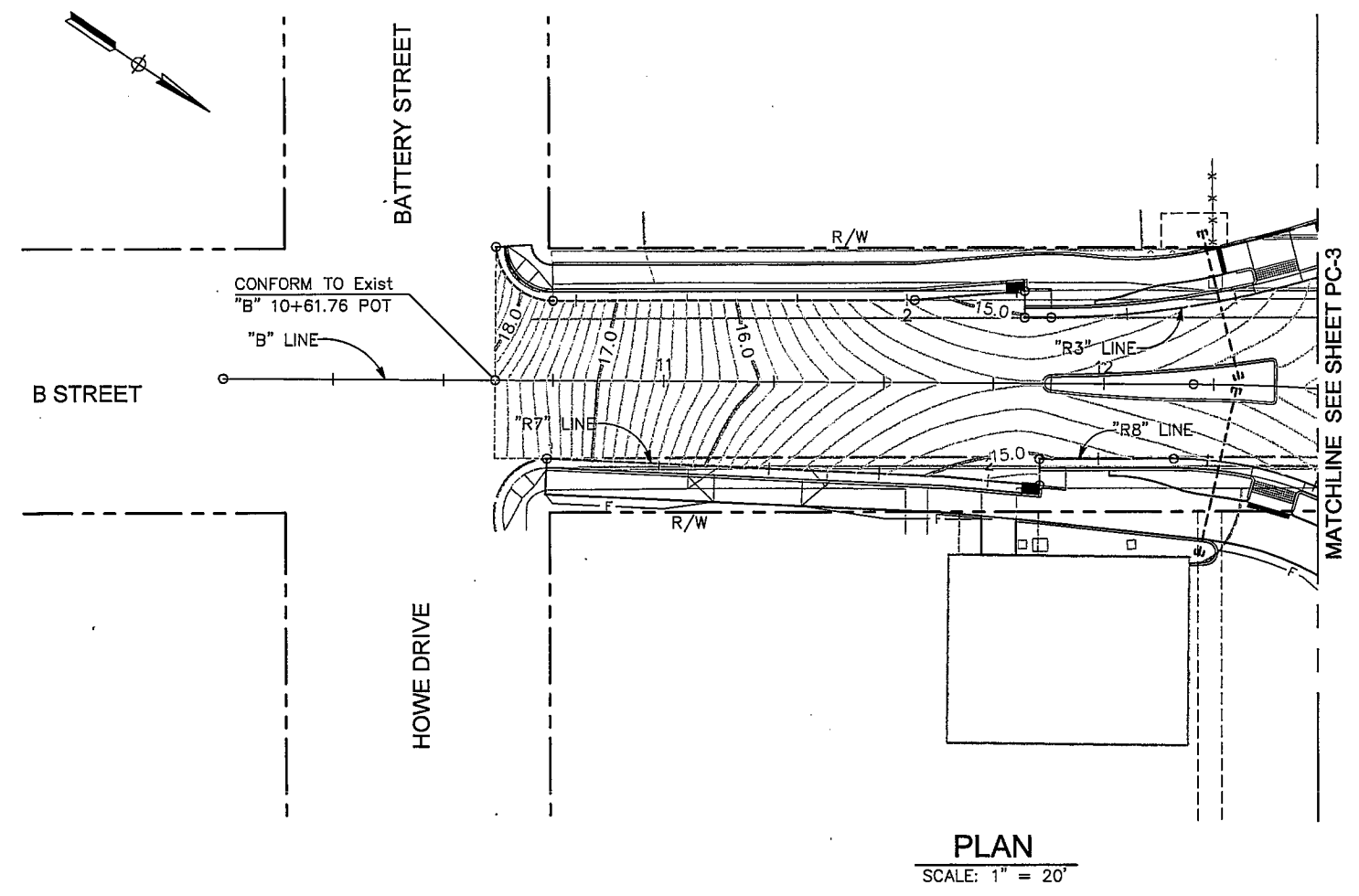
0 1 2 3  
 FOR REDUCED PLANS ORIGINAL  
 SCALE IS IN INCHES

DESIGN OVERSIGHT  
 SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

QUALITY CONTROL APPROVAL  
 Q.C. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

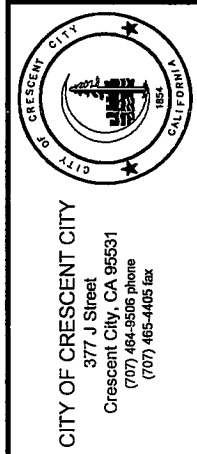
**dh drake haglan AND ASSOCIATES**  
 11050 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670

**NOTES:**  
 1. CONTOURS SHOWN ARE FINISHED GRADE AT THE TOP OF ASPHALT CONCRETE. CONTOUR INTERVAL=0.10'

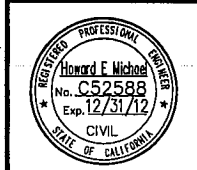


FINAL SUBMITTAL - NOT FOR CONSTRUCTION

NO.	REVISION	DATE	APP.

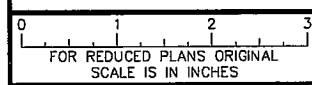


FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 PAVEMENT CONTOURS  
 STA 10+00.00 TO STA 12+49.00



DESIGN BY	REU
DRAWN BY	REU
CHECKED BY	HEM
DATE	July 9, 2012
SCALE	AS SHOWN
JOB NO.	11009
DRAWING NUMBER	PC-1
SHEET NUMBER	42 OF 114

PLOT BY: RICHARD PLOT DATE: \$DATE\$ FILE NAME: \$FILEL\$



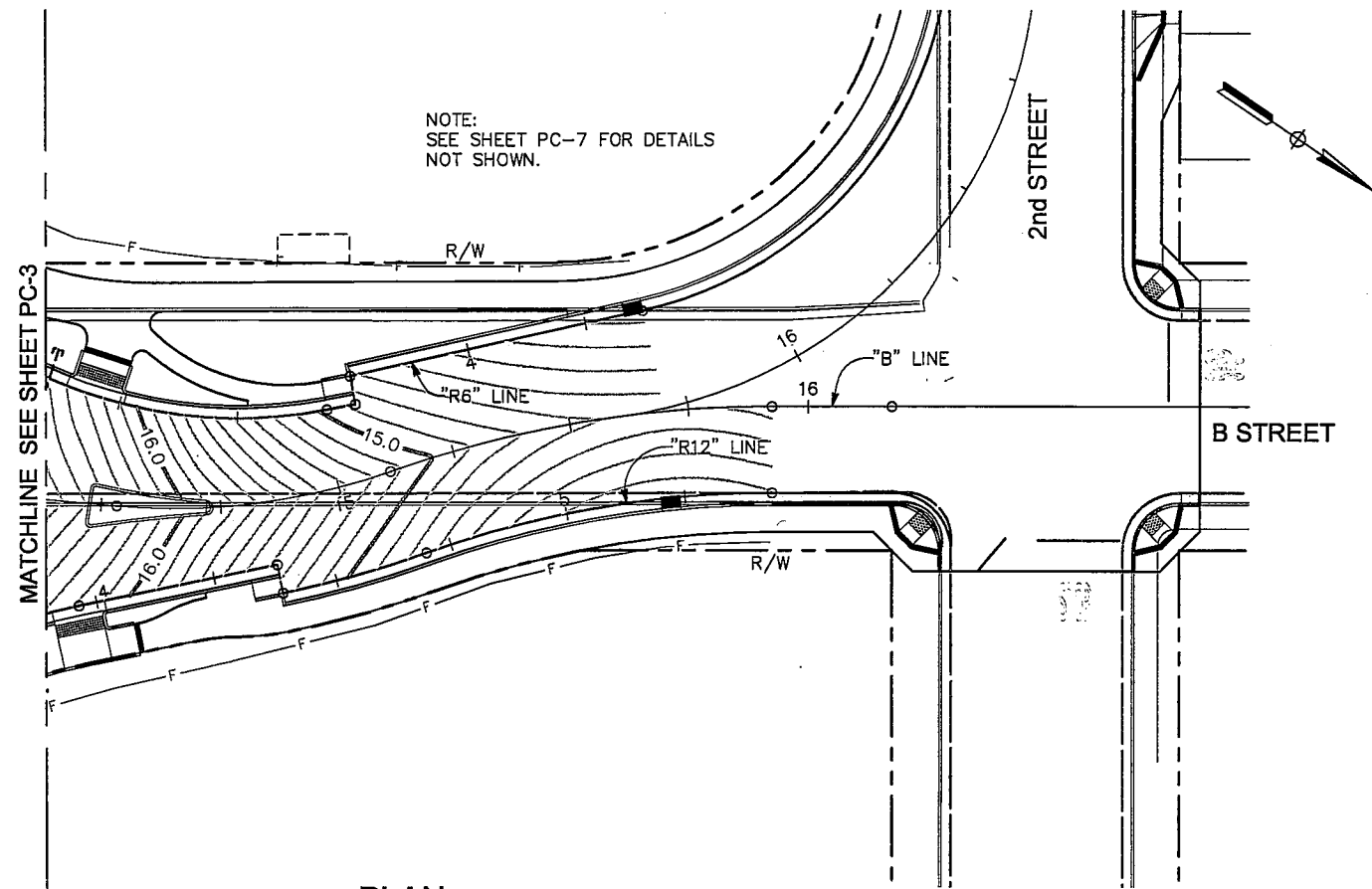
DESIGN OVERSIGHT			
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE

QUALITY CONTROL APPROVAL			
Q.C. REVIEW BY	R.C.E. NUMBER	SIGNATURE	DATE

**dh drake haglan AND ASSOCIATES**  
 11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670

**NOTES:**

1. CONTOURS SHOWN ARE FINISHED GRADE AT THE TOP OF ASPHALT CONCRETE. CONTOUR INTERVAL=0.10'



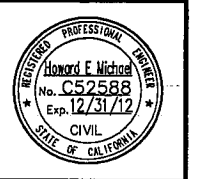
FINAL SUBMITTAL - NOT FOR CONSTRUCTION

NO.	REVISION	DCP	DATE	APP



CITY OF CRESCENT CITY  
377 J Street  
Crescent City, CA 95531  
(707) 464-9506 phone  
(707) 465-4405 fax

**FRONT STREET REVITALIZATION**  
**(A STREET TO HIGHWAY 101 SOUTH)**  
**PAVEMENT CONTOURS**  
**STA 14+38.31 to STA 16+17.44**



DESIGN BY REU  
DRAWN BY REU  
CHECKED BY HEM  
DATE July 9, 2012  
SCALE AS SHOWN  
JOB NO. 11009  
DRAWING NUMBER  
**PC-2**

SHEET NUMBER  
43 OF 114

PLOT FILE NAME: \$FILEL\$  
 PLOT FILE NAME: \$FILEL\$

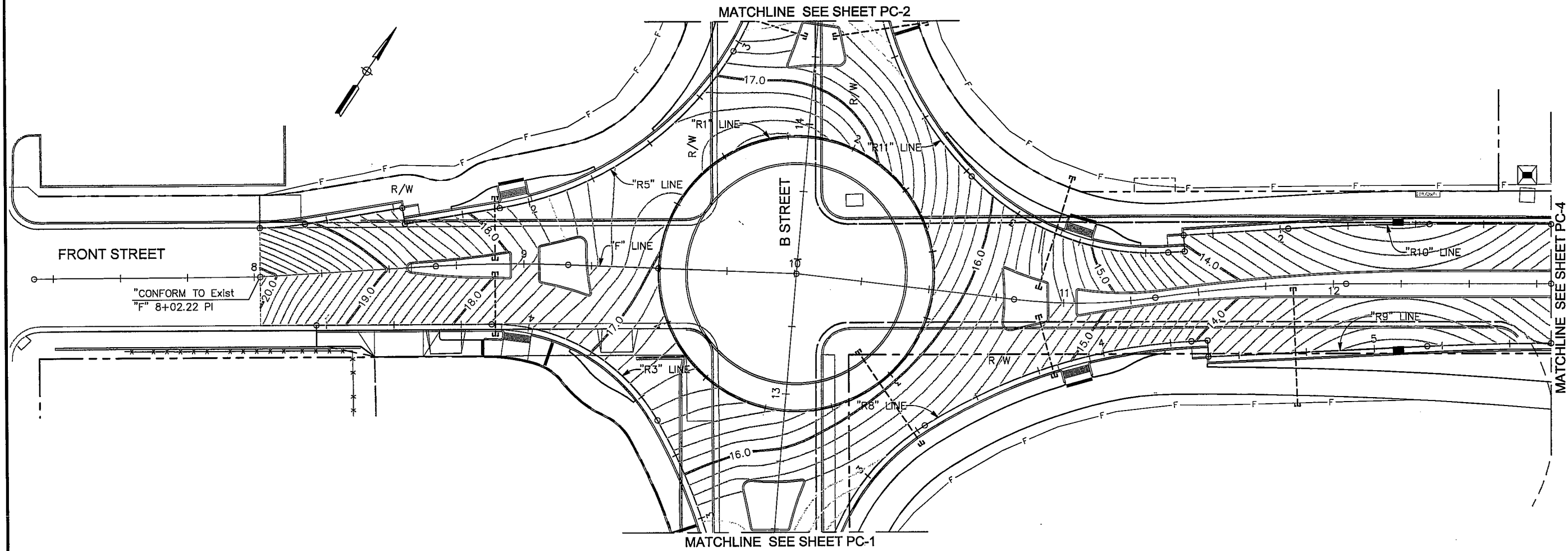
0 1 2 3  
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

DESIGN OVERSIGHT  
SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

QUALITY CONTROL APPROVAL  
Q.C. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**dh drake haglan AND ASSOCIATES** 11060 White Rock Road, Suite 200  
Rancho Cordova, CA 95670

**NOTES:**  
 1. CONTOURS SHOWN ARE FINISHED GRADE AT THE TOP OF ASPHALT CONCRETE. CONTOUR INTERVAL=0.10'



**PLAN**  
 SCALE: 1" = 20'

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CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
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 (707) 464-4405 fax

**FRONT STREET REVITALIZATION  
 A STREET TO HIGHWAY 101 SOUTH)  
 PAVEMENT CONTOURS  
 STA 7+17.86 to STA 12+80.37**



DESIGN BY REU  
 DRAWN BY REU  
 CHECKED BY HEM  
 DATE July 9, 2012  
 SCALE AS SHOWN  
 JOB NO. 11009  
 DRAWING NUMBER  
**PC-3**  
 SHEET NUMBER

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 PLOT FILE NAME: \$DA\$

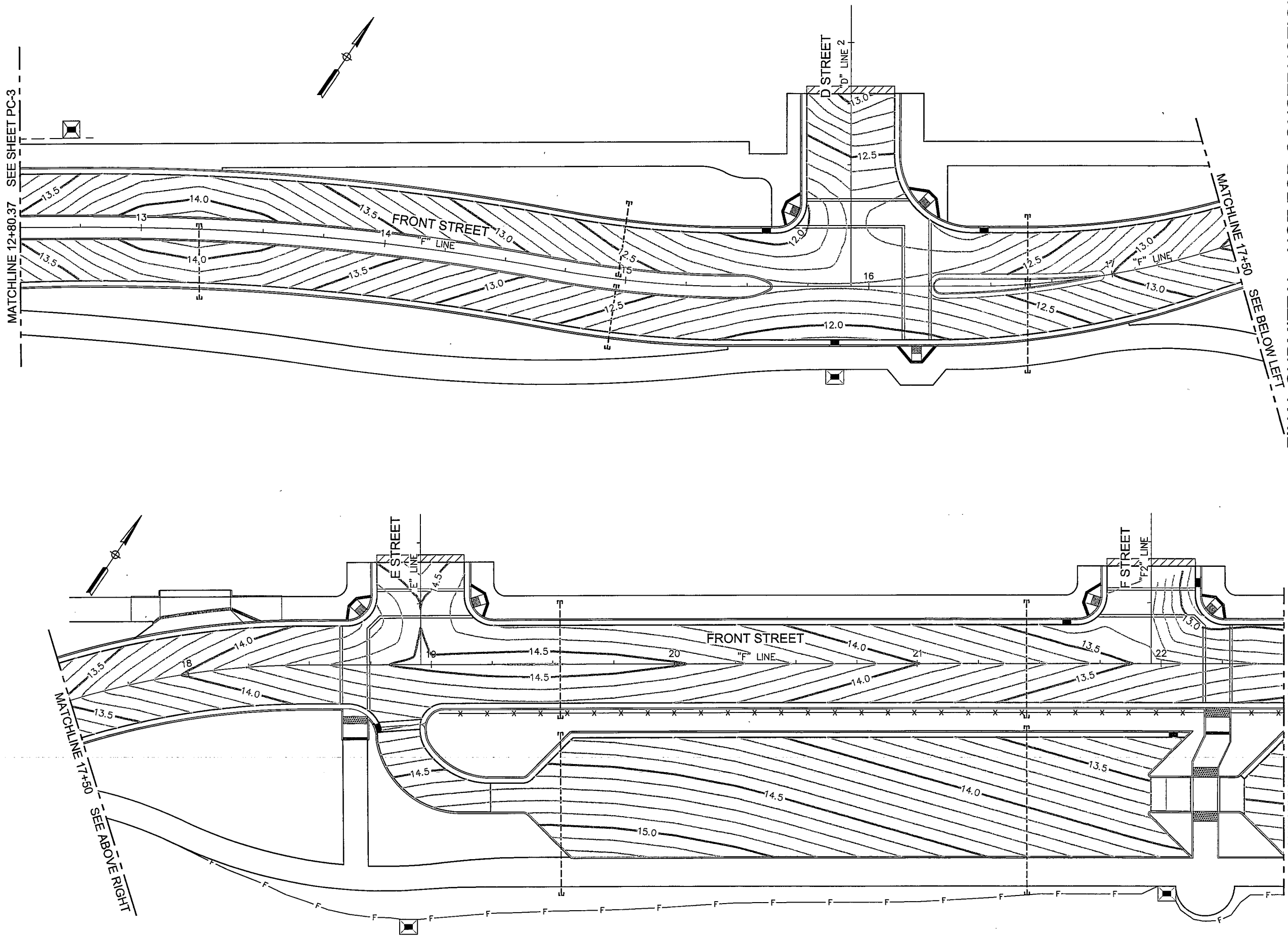
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

DESIGN OVERSIGHT  
 SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

QUALITY CONTROL APPROVAL  
 Q.C. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**dh drake haglan AND ASSOCIATES** 11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET PC-4\_PC-6.DWG

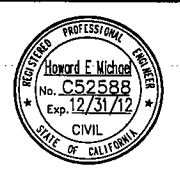


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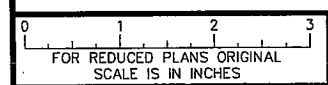
FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 PAVEMENT CONTOURS  
 STA 12+80.37 TO STA 22+50



DESIGN BY DCP  
 DRAWN BY DCP  
 CHECKED BY HEM  
 DATE July 9, 2012  
 SCALE 1" = 20'  
 JOB NO. 11009

DRAWING NUMBER  
**PC-4**

SHEET NUMBER  
 45 OF 114

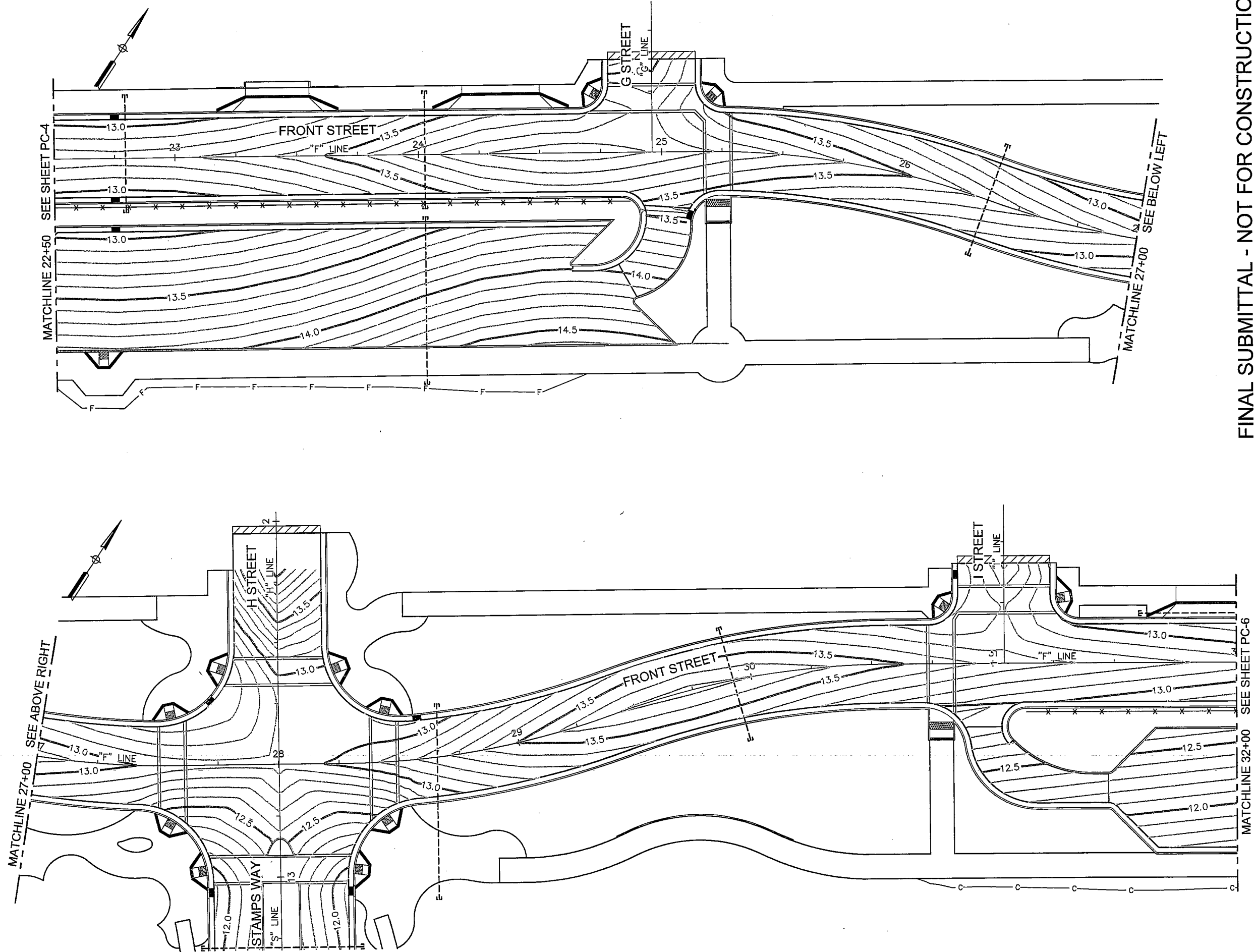


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 SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

QUALITY CONTROL APPROVAL  
 Q.C. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**dh drake haglan AND ASSOCIATES**  
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 Rancho Cordova, CA 95670

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET PC-4\_PC-6.DWG



0 1 2 3  
 FOR REDUCED PLANS ORIGINAL  
 SCALE IS IN INCHES

DESIGN OVERSIGHT  
 SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

QUALITY CONTROL APPROVAL  
 O.C. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

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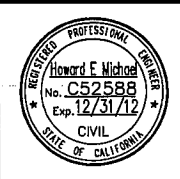
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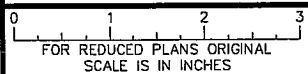
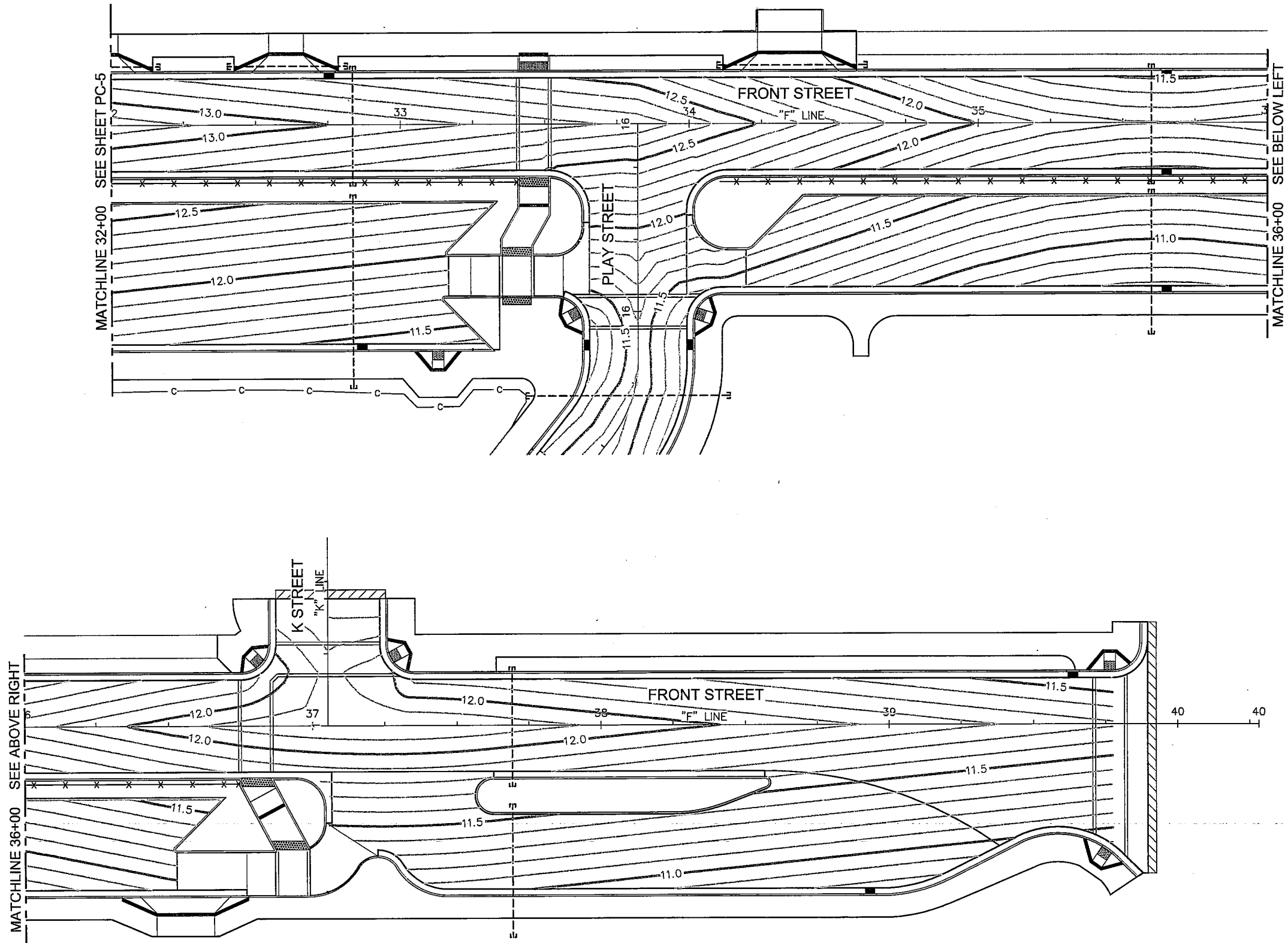
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FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 PAVEMENT CONTOURS  
 STA 22+50 to STA 32+00



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 DRAWN BY DCP  
 CHECKED BY HEM  
 DATE July 9, 2012  
 SCALE 1" = 20'  
 JOB NO. 11009  
 DRAWING NUMBER  
**PC-5**  
 SHEET NUMBER

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET PC-4\_PC-6.DWG



DESIGN OVERSIGHT  
 SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

QUALITY CONTROL APPROVAL  
 Q.C. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**dh drake haglan AND ASSOCIATES**

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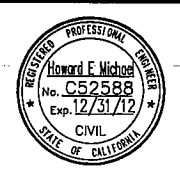
FINAL SUBMITTAL - NOT FOR CONSTRUCTION

NO.	REVISION	DCP	DATE	APP.



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FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 PAVEMENT CONTOURS  
 STA 32+00 to STA 40+00



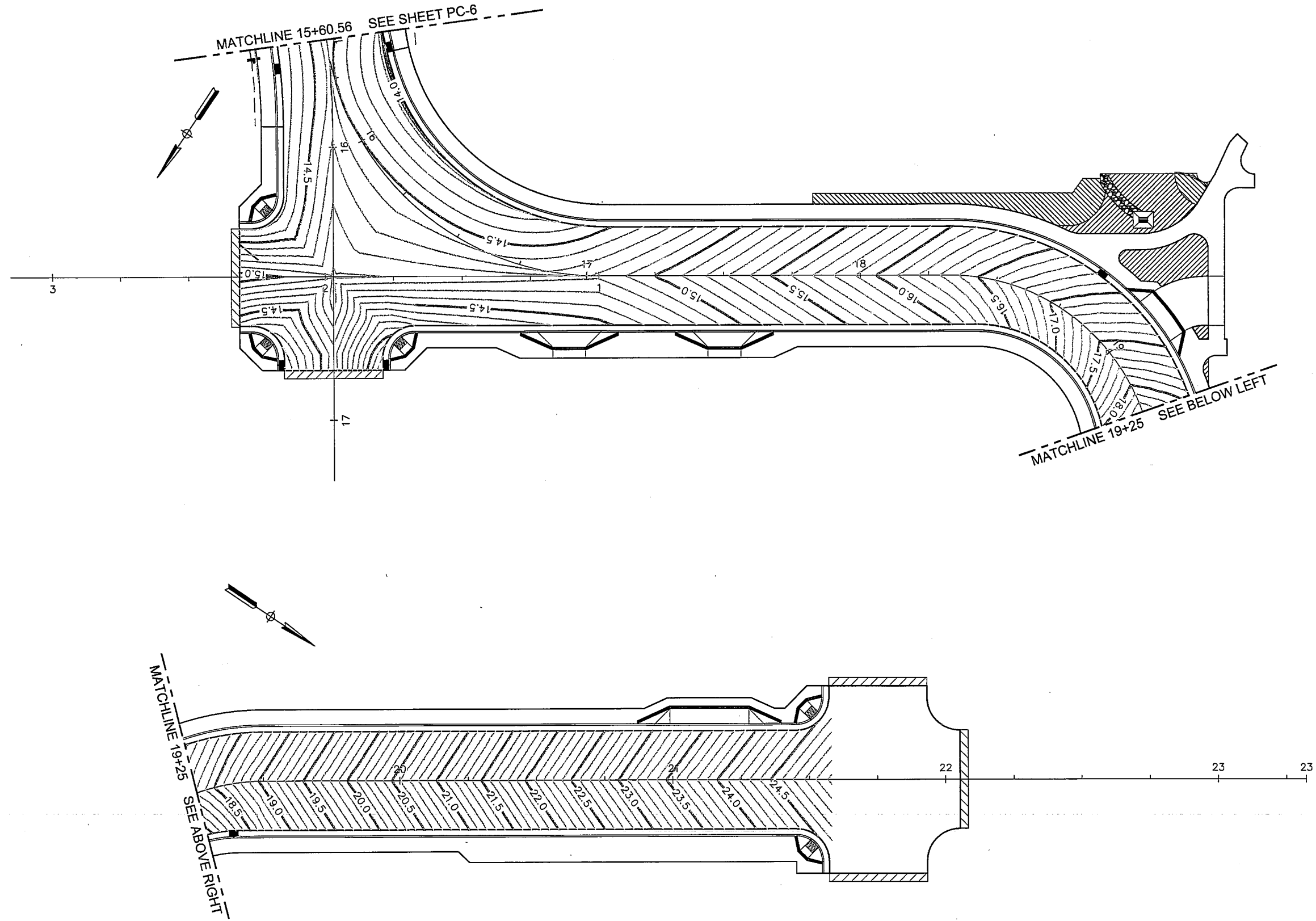
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 CHECKED BY HEM  
 DATE July 9, 2012  
 SCALE 1" = 20'  
 JOB NO. 11009

DRAWING NUMBER  
**PC-6**

SHEET NUMBER  
 47 OF 114



PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET PC-4\_PC-6.DWG



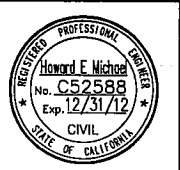
FINAL SUBMITTAL - NOT FOR CONSTRUCTION

NO.	REVISION	DCP	DATE	APP



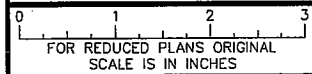
CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 464-9606 phone  
 (707) 465-4405 fax

FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 PAVEMENT CONTOURS  
 STA 15+60.56 TO STA 21+75.18



DESIGN BY DCP  
 DRAWN BY DCP  
 CHECKED BY HEM  
 DATE July 9, 2012  
 SCALE 1" = 20'  
 JOB NO. 11009

DRAWING NUMBER  
**PC-7**  
 SHEET NUMBER



DESIGN OVERSIGHT  
 SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

QUALITY CONTROL APPROVAL  
 Q.C. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_



11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET D-1\_D-5.DWG

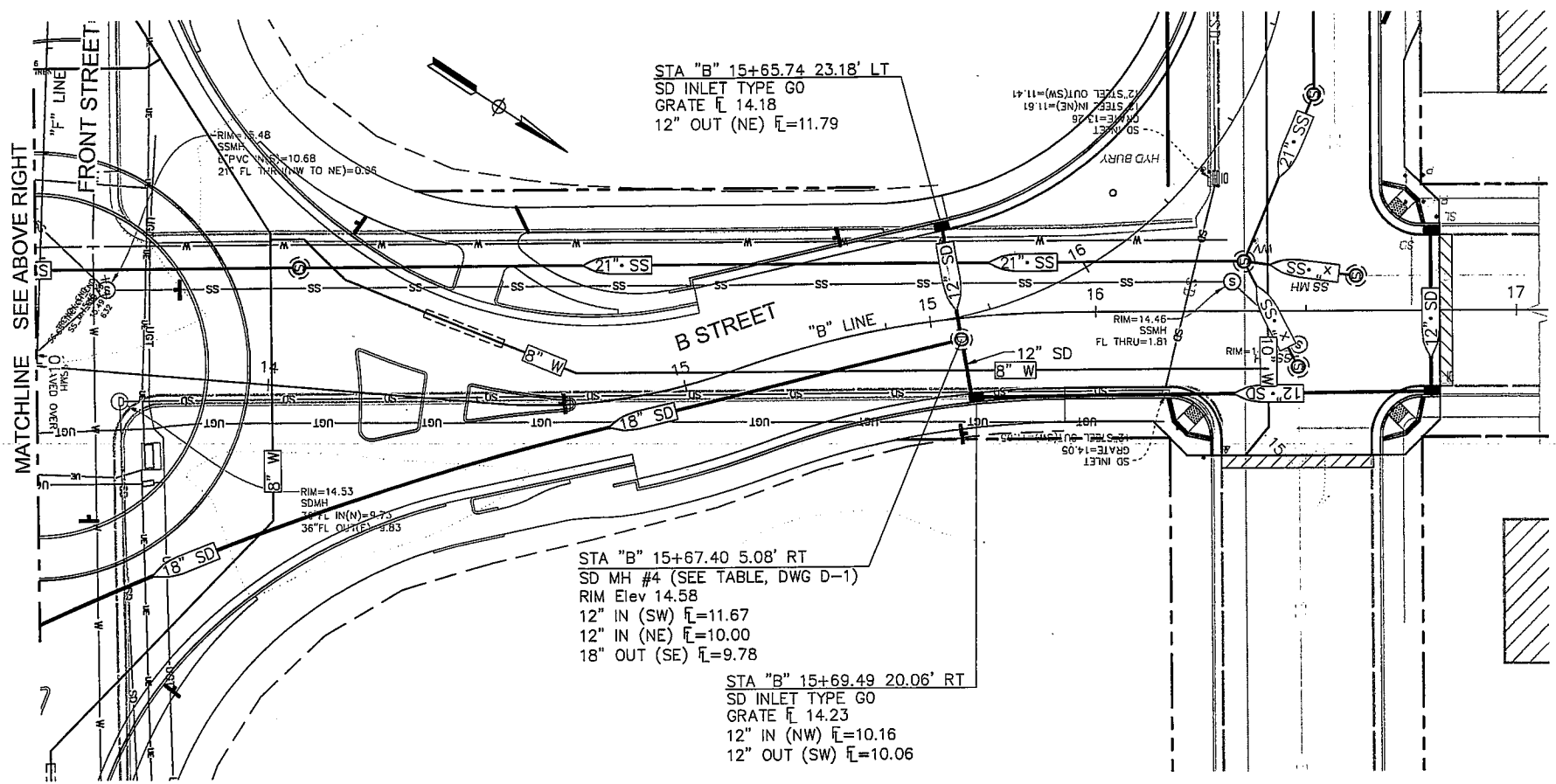
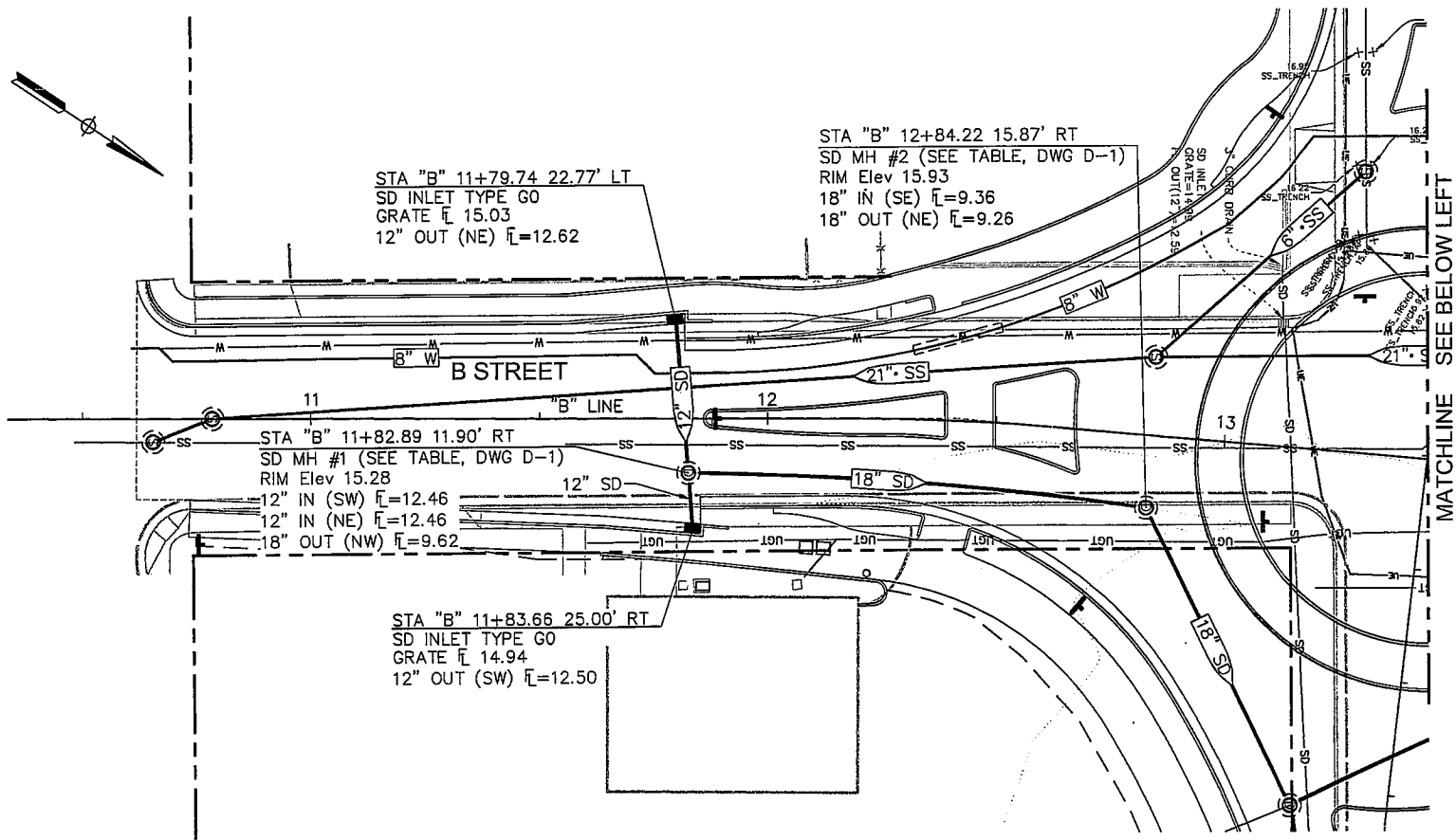
**DRAINAGE SYSTEM NOTES:**

- 1 CONNECT TO EXISTING SD SYSTEM. FIELD VERIFY EXISTING PIPE TYPE, SLOPE AND ELEVATION PRIOR TO ORDERING OR FABRICATING CONNECTING STRUCTURES.
- 2 REPLACE DOWNSPOUT DRAINS UNDER SIDEWALK. DAYLIGHT TO FACE OF CURB AND RE-CONNECT TO BUILDING ROOF DRAINAGE SYSTEM
- 3 NEW STORM DRAIN SYSTEM SHALL BE DOUBLE WALL HDPE WITH WATER TIGHT JOINTS, HANCOR N-12 WT IB OR APPROVED EQUAL.
- 4 FOR TYPICAL DRAINAGE SYSTEM DETAILS, SEE "DRAINAGE DETAILS" DRAWINGS.
- 5 FOR ALL DRAINAGE STRUCTURE TYPE AND SIZES, SEE STRUCTURE TABLE ON DRAWING D-1.
- 6 FOR DRAINAGE INLET TYPE G1 AND G4 APRON, SEE DRAINAGE DETAILS DRAWING DD-3.
- 7 DRAINAGE INLET GRATE TYPES SHALL BE:  
 TYPE G0 INLETS - 24-12X  
 TYPE G1 & G4 INLETS - 24-12X

**DRAINAGE SYSTEM DESIGN DATA:**

FRICITION COEFFICIENT (RCP) = 0.013  
 MINIMUM VELOCITY = 3.0 (fps)  
 MINIMUM COVER BY PIPE DIAMETER:  
 12" thru 48" = 12"  
 54" thru 60" = 24"  
 MINIMUM SLOPE (ft/ft) BY PIPE DIAMETER:  
 12" = 0.005  
 15" = 0.0035  
 18" = 0.0027  
 21" = 0.0021  
 24" = 0.0017  
 27" = 0.0015  
 30" = 0.0013  
 36" = 0.0011  
 42" = 0.00085  
 48" = 0.00070  
 54" = 0.00060

**ABBREVIATIONS:**  
 MH = MANHOLE  
 DI = DRAINAGE INLET  
 JS = JUNCTION STRUCTURE



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**FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 "B" STREET DRAINAGE PLAN**



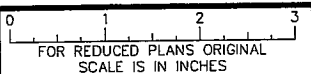
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 DRAWN BY DCP  
 CHECKED BY HEM  
 DATE July 9, 2012  
 SCALE 1" = 20'  
 JOB NO. 11009

DRAWING NUMBER

**D-1**

SHEET NUMBER

49 OF 114

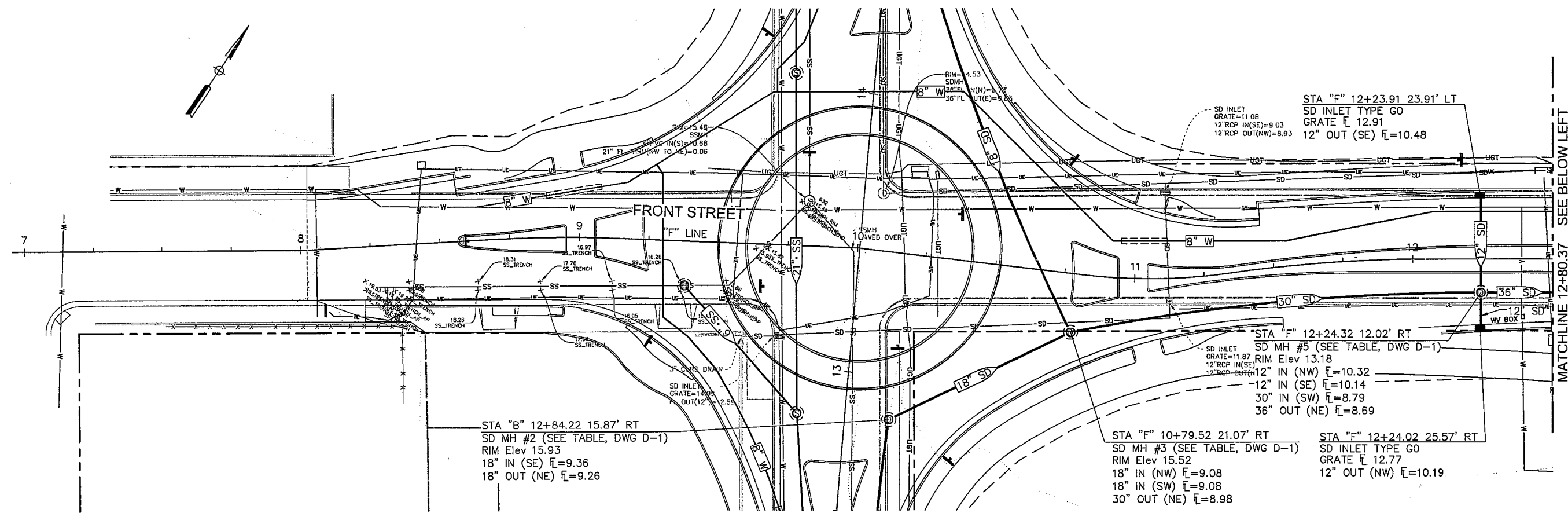


DESIGN OVERSIGHT  
 SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

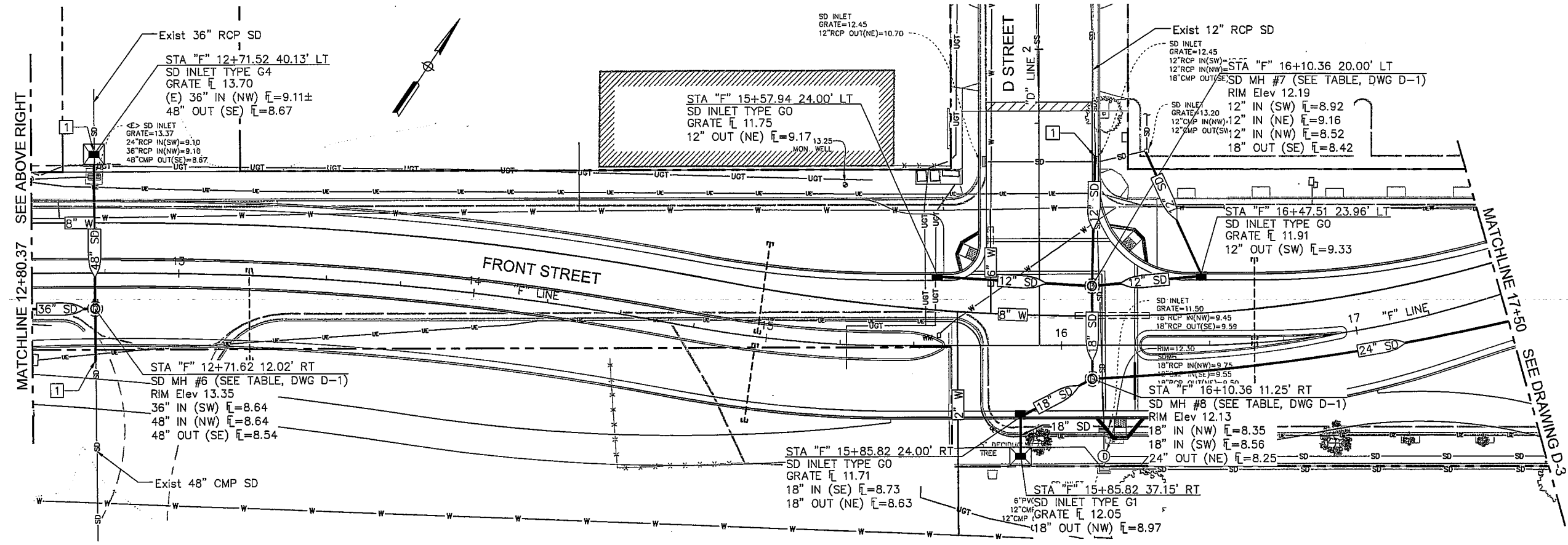
QUALITY CONTROL APPROVAL  
 R.C.E. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**dh drake haglan AND ASSOCIATES**  
 11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL FRONT STREET D-1\_D-5.DWG



**NOTE:**  
 FOR DRAINAGE SYSTEM KEY NOTES, SEE SHEET D-1



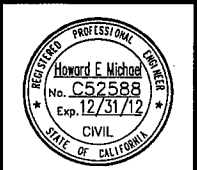
**FINAL SUBMITTAL - NOT FOR CONSTRUCTION**

NO.	REVISION	DCP	DATE	APP



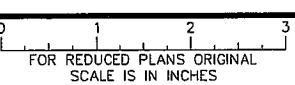
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 Crescent City, CA 95531  
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**FRONT STREET REVITALIZATION**  
**(A STREET TO HIGHWAY 101 SOUTH)**  
**FRONT STREET DRAINAGE PLAN**  
**STA 7+00 TO STA 17+50**



DESIGN BY DCP  
 DRAWN BY DCP  
 CHECKED BY HEM  
 DATE July 9, 2012  
 SCALE 1" = 20'  
 JOB NO. 11009

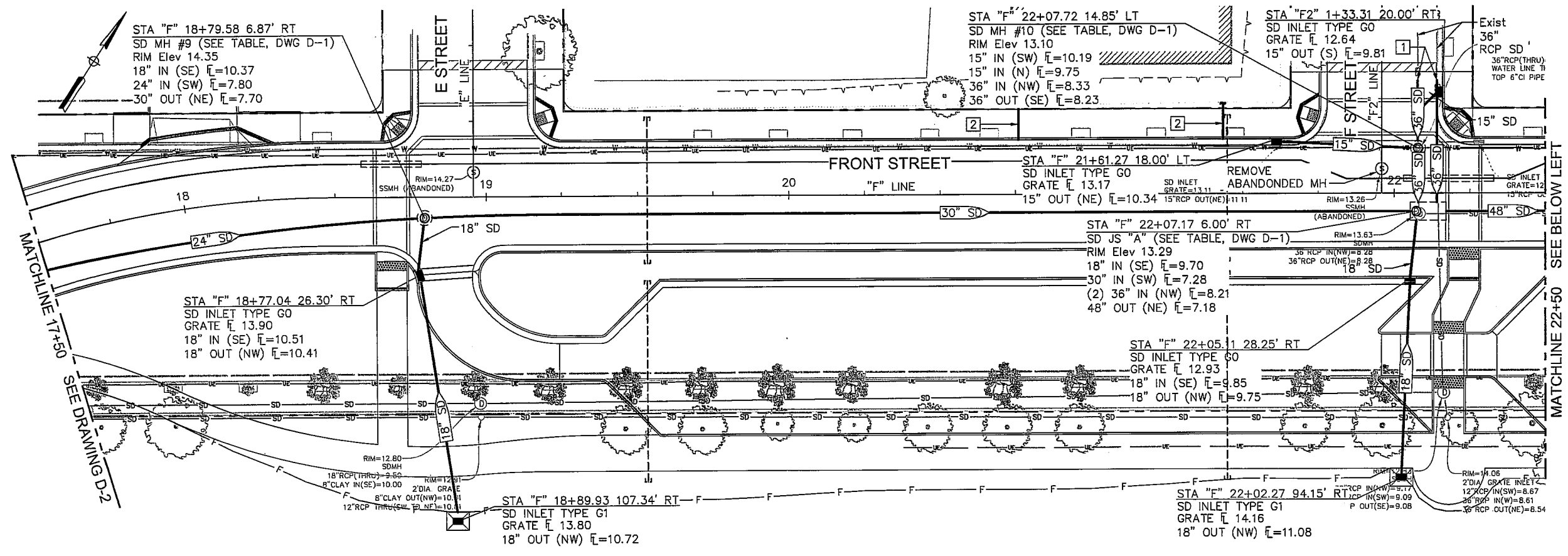
DRAWING NUMBER  
**D-2**  
 SHEET NUMBER  
 50 OF 114



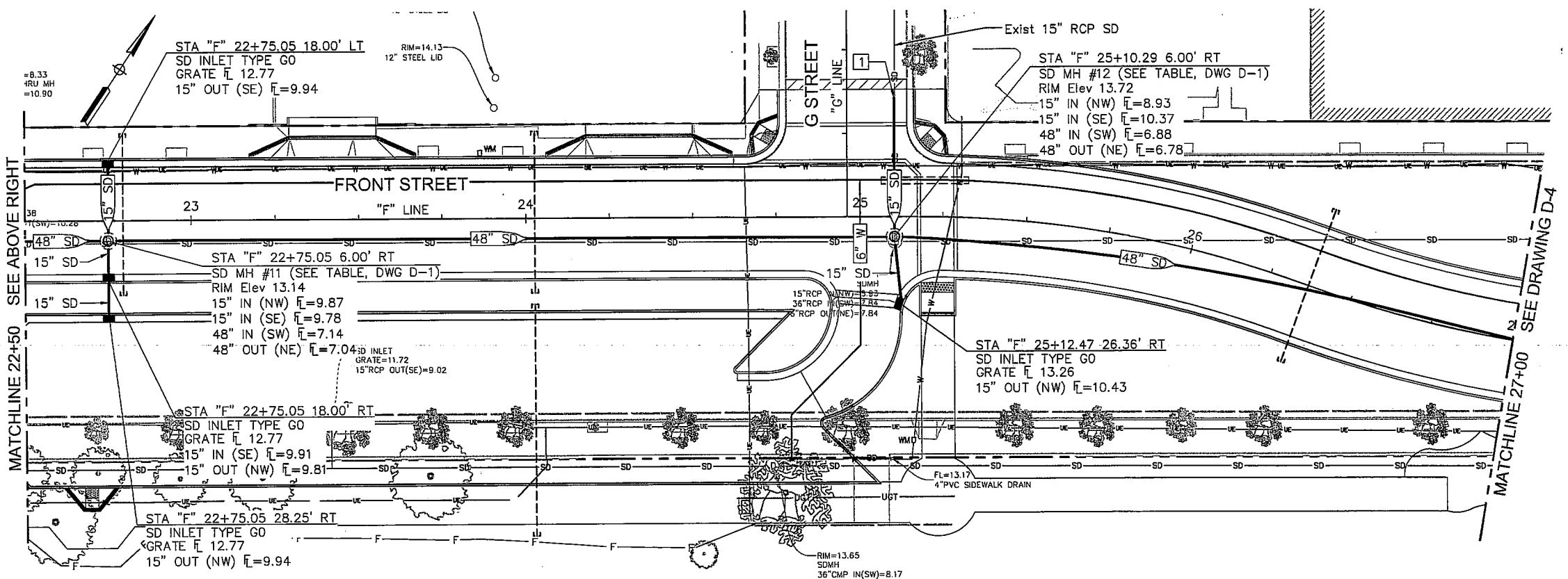
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SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE	Q.C. REVIEW BY	R.C.E. NUMBER	SIGNATURE	DATE

**dh drake haglan AND ASSOCIATES**

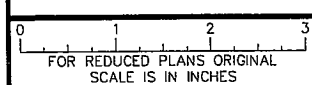
11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670



**NOTE:**  
FOR DRAINAGE SYSTEM KEY NOTES, SEE SHEET D-1



PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
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DESIGN OVERSIGHT		QUALITY CONTROL APPROVAL	
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE

DESIGN OVERSIGHT		QUALITY CONTROL APPROVAL	
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE



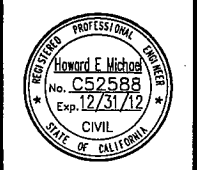
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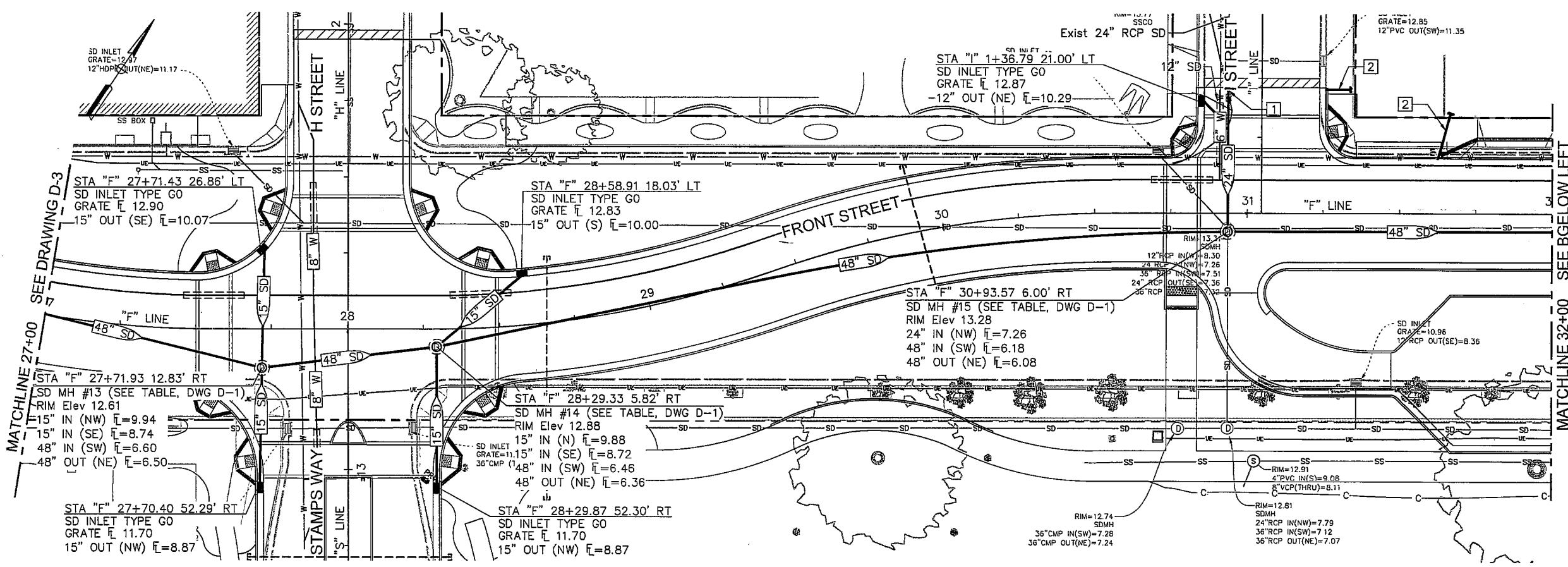
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**FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 FRONT STREET DRAINAGE PLAN  
 STA 17+50 TO STA 27+00**

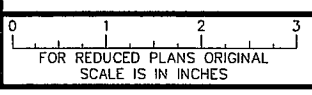
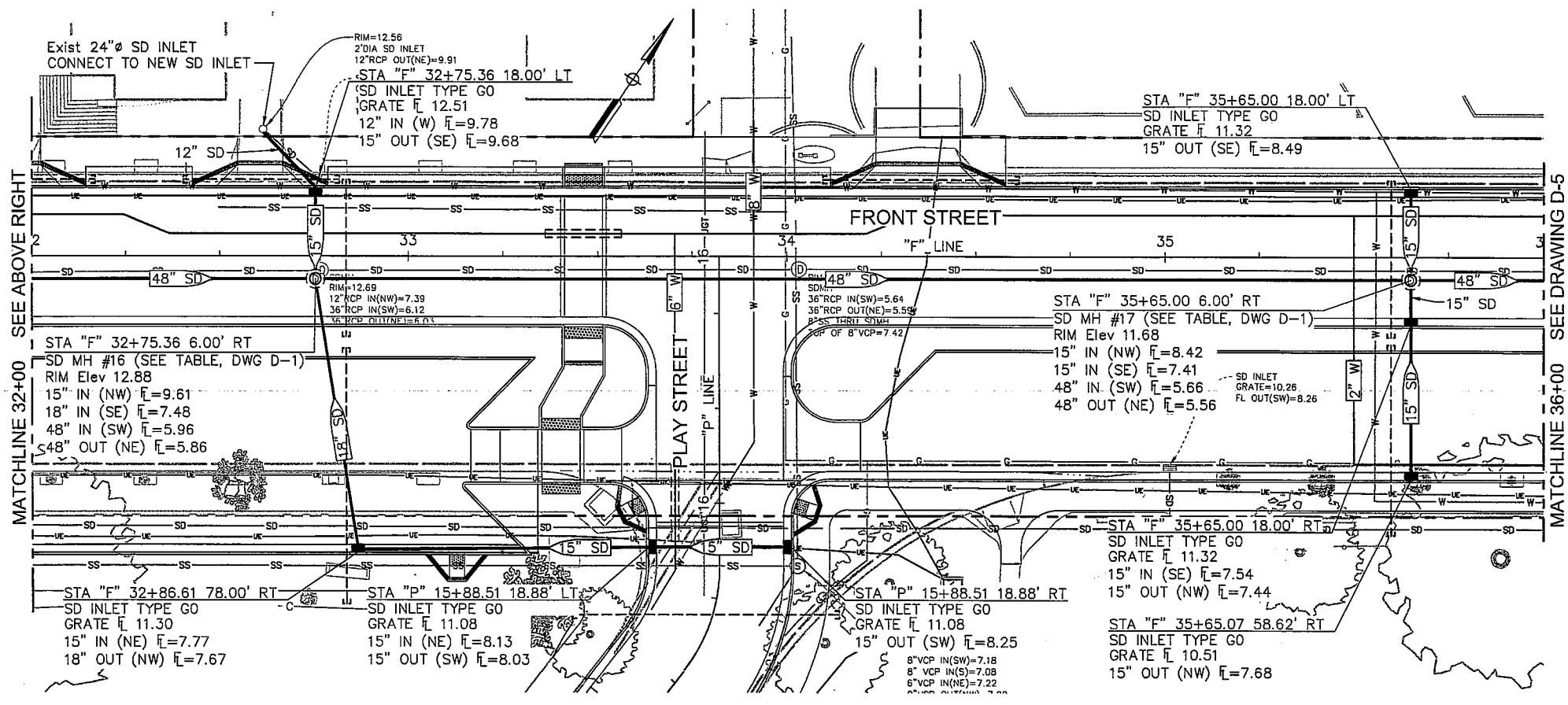


DESIGN BY DCP
DRAWN BY DCP
CHECKED BY HEM
DATE July 9, 2012
SCALE 1" = 20'
JOB NO. 11009
DRAWING NUMBER
D-3
SHEET NUMBER
51 of 114

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET D-1\_D-5.DWG



NOTE:  
 FOR DRAINAGE SYSTEM KEY NOTES, SEE SHEET D-1



DESIGN OVERSIGHT			
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE

QUALITY CONTROL APPROVAL			
Q.C. REVIEW BY	R.C.E. NUMBER	SIGNATURE	DATE

**dh drake haglan AND ASSOCIATES**  
 11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95870

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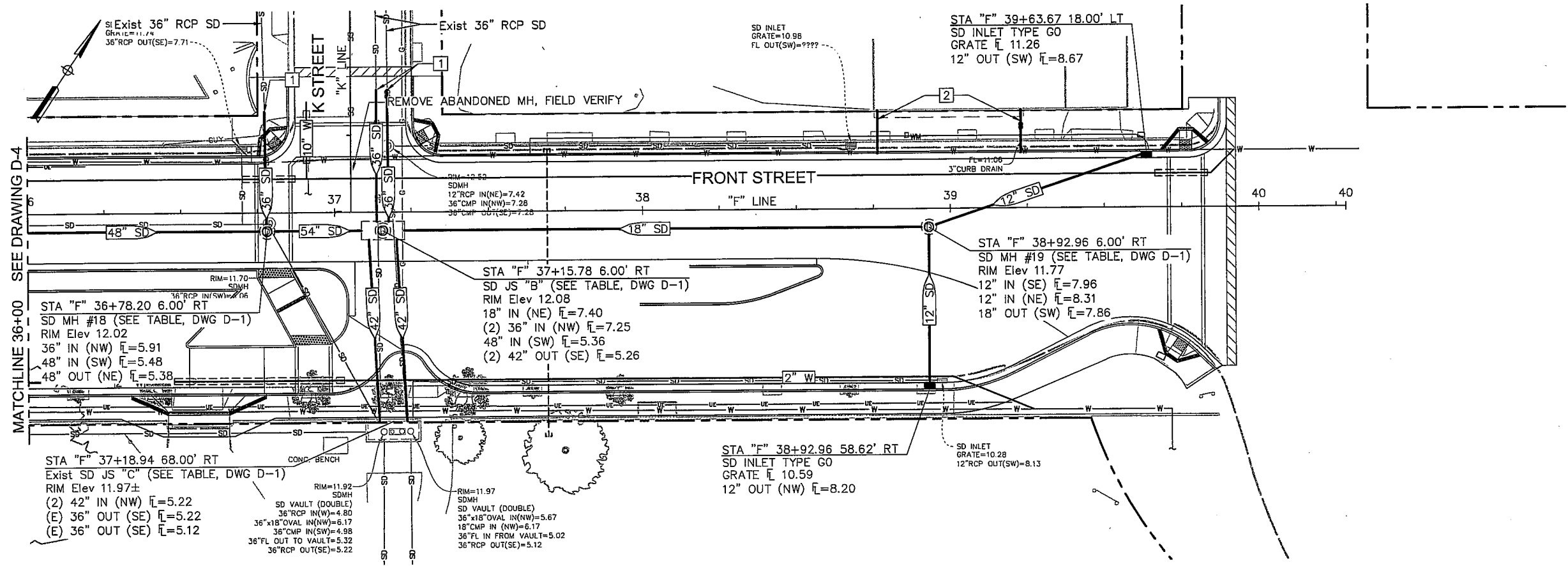
FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 FRONT STREET DRAINAGE PLAN  
 STA 27+00 to STA 36+00

REGISTERED PROFESSIONAL ENGINEER  
 No. C52588  
 Exp. 12/31/12  
 CIVIL  
 STATE OF CALIFORNIA

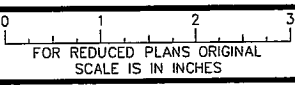
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CHECKED BY	HBM
DATE	July 9, 2012
SCALE	1" = 20'
JOB NO.	11009

DRAWING NUMBER  
**D-4**  
 SHEET NUMBER  
 52 OF 114

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET D-1\_D-5.DWG



**NOTE:**  
 FOR DRAINAGE SYSTEM KEY NOTES, SEE SHEET D-1



DESIGN OVERSIGHT			
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE

QUALITY CONTROL APPROVAL			
Q.C. REVIEW BY	R.C.E. NUMBER	SIGNATURE	DATE

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 Rancho Cordova, CA 95670

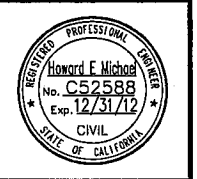
**FINAL SUBMITTAL - NOT FOR CONSTRUCTION**

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 Crescent City, CA 95531  
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**FRONT STREET REVITALIZATION**  
 (A STREET TO HIGHWAY 101 SOUTH)  
**FRONT STREET DRAINAGE PLAN**  
 STA 36+00 to STA 40+00



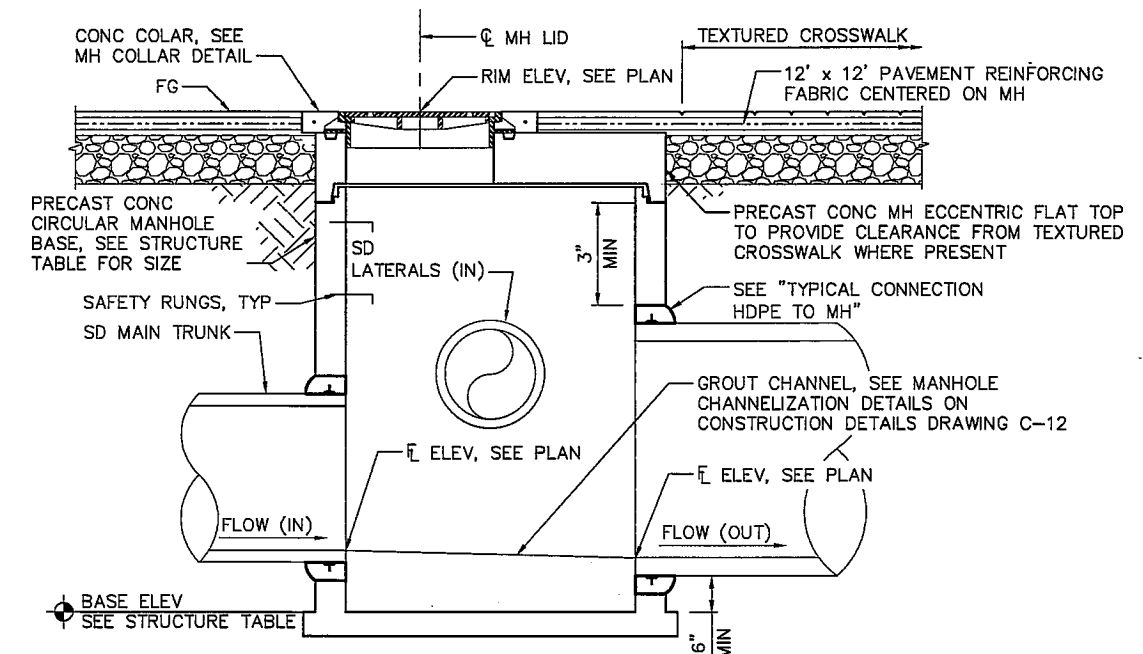
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DRAWN BY	DCP
CHECKED BY	HEM
DATE	July 9, 2012
SCALE	1" = 20'
JOB NO.	11009
DRAWING NUMBER	D-5
SHEET NUMBER	53 OF 114

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET DD-1\_DD-3.DWG

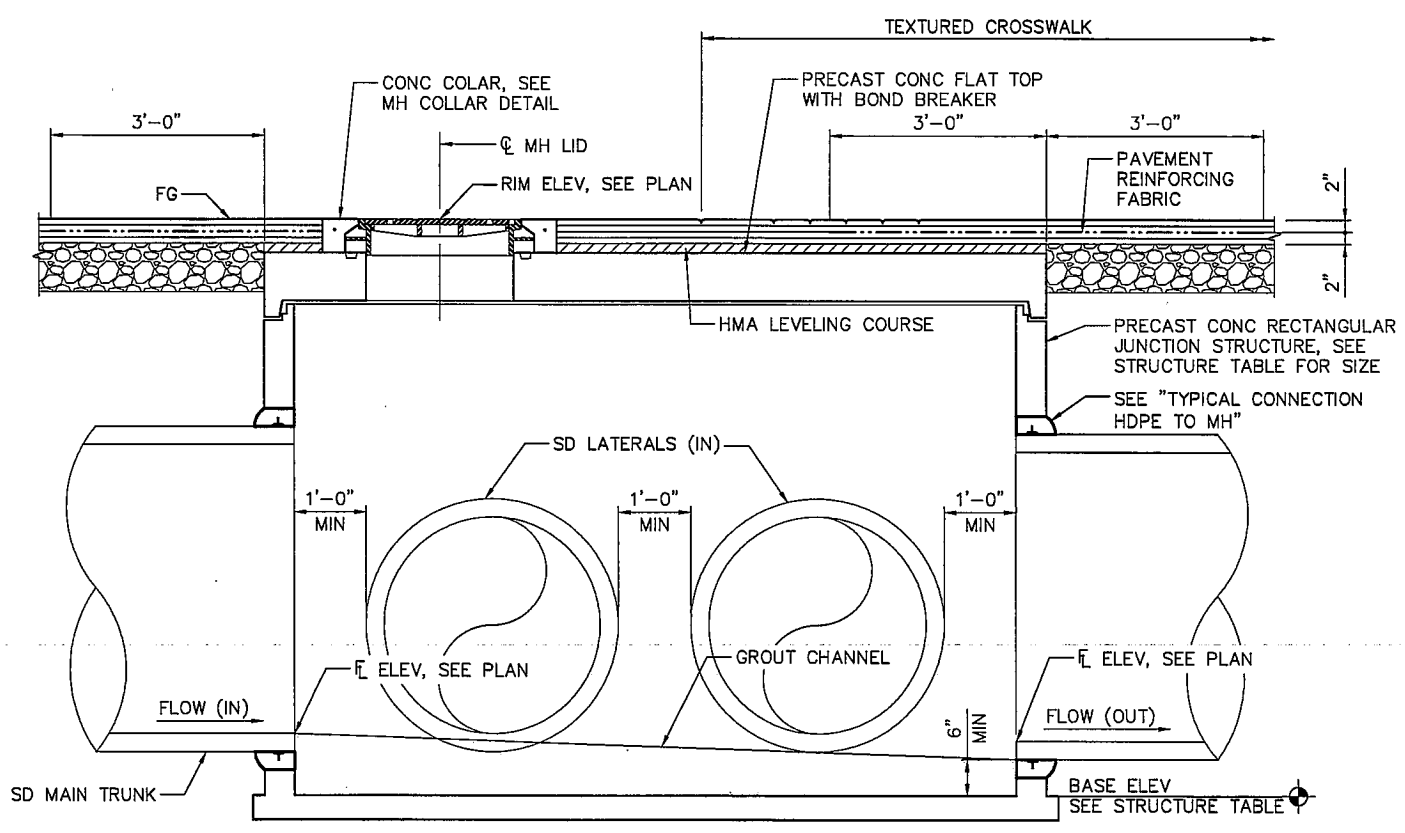
**DRAINAGE STRUCTURE TABLE**

I.D.	TYPE	SHAPE	SIZE	BASE ELEVATION	RIM ELEVATION	DETAIL
1	MANHOLE	CIRCULAR	48"	8.95	15.28	SEE DRAWING DD-1
2	MANHOLE	CIRCULAR	48"	8.59	15.93	SEE DRAWING DD-1
3	MANHOLE	CIRCULAR	48"	8.23	15.52	SEE DRAWING DD-1
4	MANHOLE	CIRCULAR	48"	9.11	14.58	SEE DRAWING DD-1
5	MANHOLE	CIRCULAR	60"	7.94	13.18	SEE DRAWING DD-1
6	MANHOLE	CIRCULAR	72"	7.79	13.35	SEE DRAWING DD-1
7	MANHOLE	CIRCULAR	48"	7.67	12.19	SEE DRAWING DD-1
8	MANHOLE	CIRCULAR	48"	7.50	12.13	SEE DRAWING DD-1
9	MANHOLE	CIRCULAR	60"	6.95	14.35	SEE DRAWING DD-1
10	MANHOLE	CIRCULAR	60"	7.48	13.10	SEE DRAWING DD-1
11	MANHOLE	CIRCULAR	72"	6.29	13.14	SEE DRAWING DD-1
12	MANHOLE	CIRCULAR	72"	6.03	13.72	SEE DRAWING DD-1
13	MANHOLE	CIRCULAR	72"	5.75	12.61	SEE DRAWING DD-1
14	MANHOLE	CIRCULAR	72"	5.61	12.88	SEE DRAWING DD-1
15	MANHOLE	CIRCULAR	72"	5.33	13.28	SEE DRAWING DD-1
16	MANHOLE	CIRCULAR	72"	5.11	12.88	SEE DRAWING DD-1
17	MANHOLE	CIRCULAR	72"	4.81	11.68	SEE DRAWING DD-1
18	MANHOLE	CIRCULAR	84"	4.63	12.02	SEE DRAWING DD-1
19	MANHOLE	CIRCULAR	48"	7.19	11.77	SEE DRAWING DD-1
"A"	JUNCTION	RECTANGULAR	72" x 144"	6.43	13.29	SEE DRAWING DD-1
"B"	JUNCTION	RECTANGULAR	72" x 144"	4.59	12.08	SEE DRAWING DD-1
"C"	(E) JUNCTION	RECTANGULAR	72" x 192"±	FIELD VERIFY	11.97±	SEE DRAWING DD-3

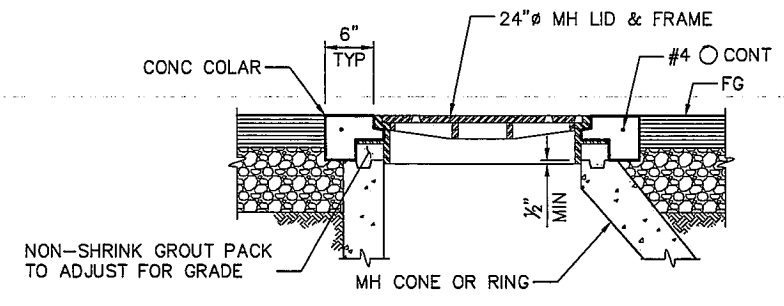
MH = MANHOLE  
 DI = DRAINAGE INLET  
 JS = JUNCTION STRUCTURE



**CIRCULAR MANHOLE DETAIL - 1 thru 19**  
 SCALE: 1/4" = 1'-0"



**RECTANGULAR MANHOLE DETAIL - JS "A" & "B"**  
 SCALE: 3/4" = 1'-0"



**TYPICAL MH COLLAR**  
 SCALE: 1" = 1'

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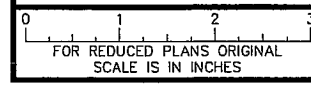
**FRONT STREET REVITALIZATION**  
**(A STREET TO HIGHWAY 101 SOUTH)**  
**DRAINAGE DETAILS**

  
 Howard E. Michie  
 No. C52588  
 Exp. 12/31/12  
 CIVIL  
 STATE OF CALIFORNIA

DESIGN BY: DCP  
 DRAWN BY: DCP  
 CHECKED BY: HEM  
 DATE: July 9, 2012  
 SCALE: AS SHOWN  
 JOB NO. 11009

DRAWING NUMBER  
**DD-1**

SHEET NUMBER  
 54 OF 114

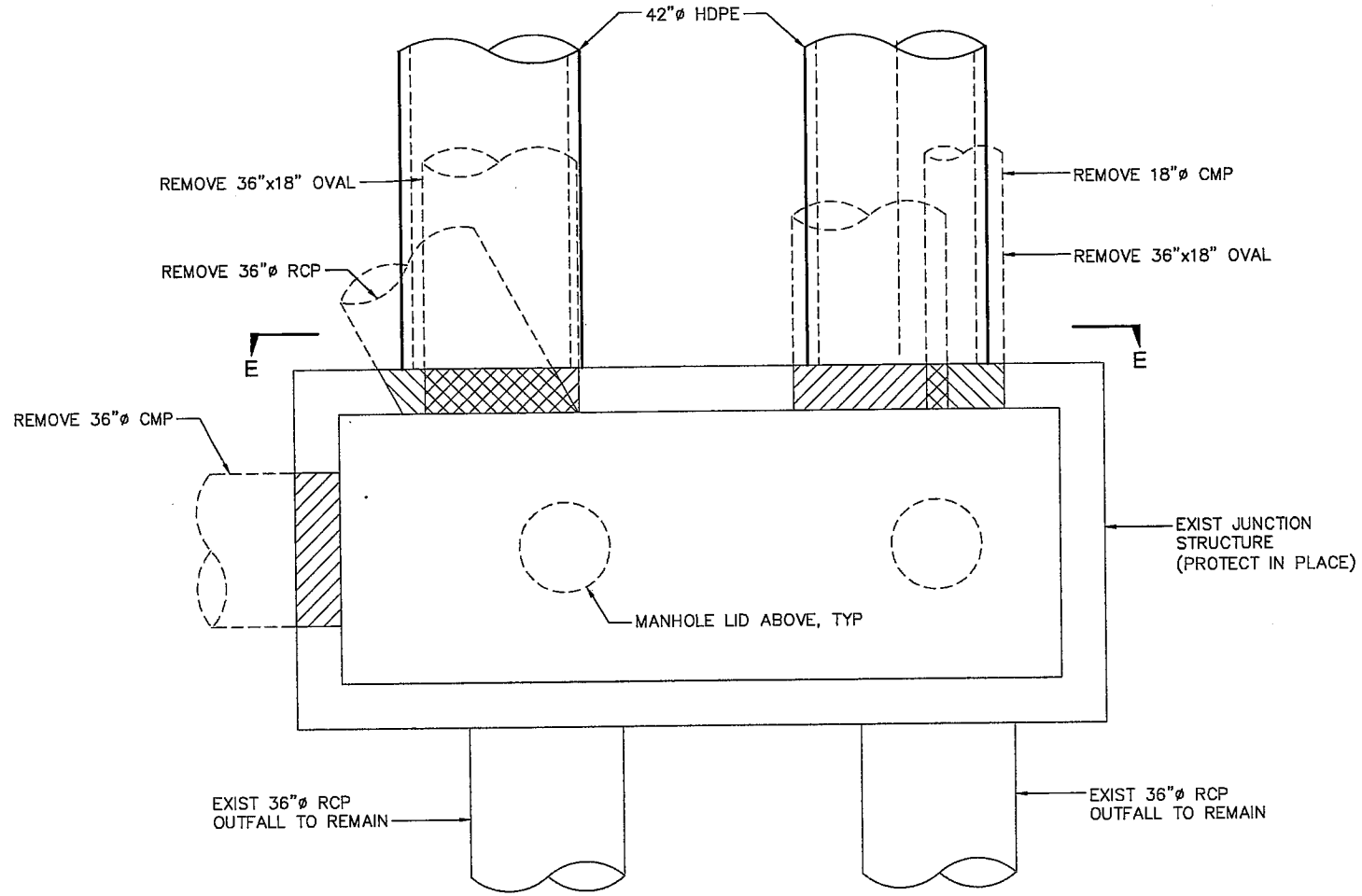


DESIGN OVERSIGHT  
 SUPERVISION BY: \_\_\_\_\_ R.C.E. NUMBER: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

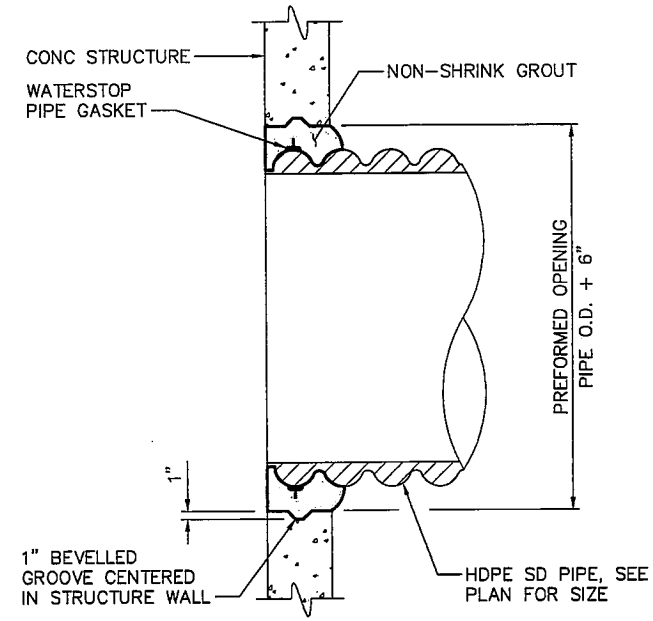
QUALITY CONTROL APPROVAL  
 Q.C. REVIEW BY: \_\_\_\_\_ R.C.E. NUMBER: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

  
 11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670

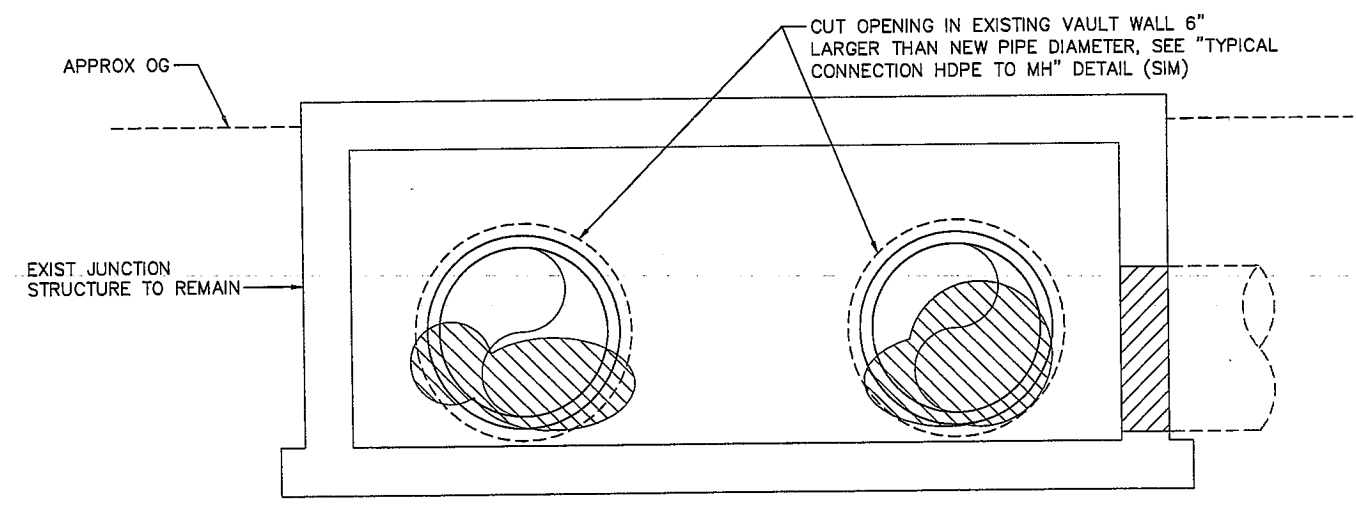
PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT\DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET DD-1\_DD-3.DWG



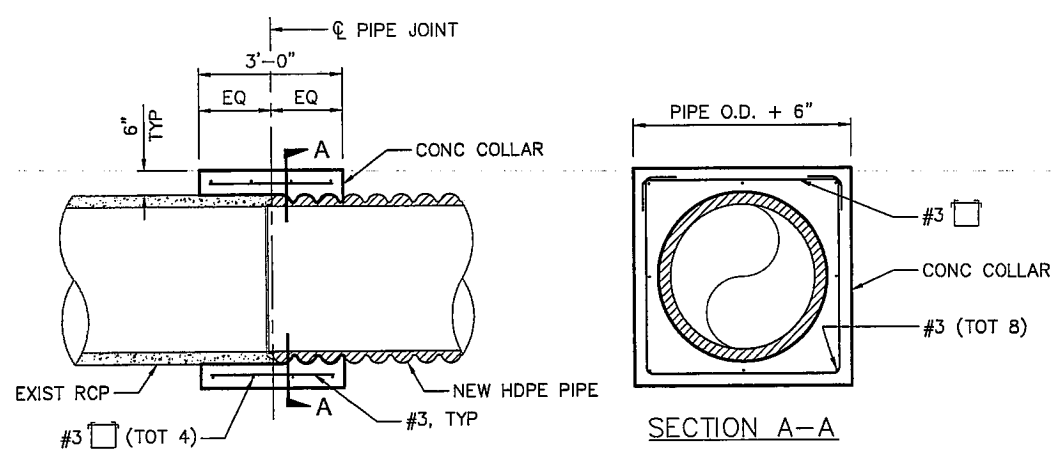
**EXISTING JUNCTION STRUCTURE PLAN**  
SCALE: 1/2" = 1'-0"



**TYPICAL CONNECTION HDPE TO MH**  
SCALE: 1" = 1'



**EXISTING JUNCTION STRUCTURE ELEVATION E-E**  
SCALE: 1/2" = 1'-0"



**TYPICAL CONNECTION HDPE TO RCP**  
SCALE: 1/2" = 1'-0"

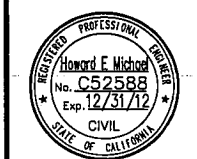
**FINAL SUBMITTAL - NOT FOR CONSTRUCTION**

NO.	REVISION	DCP	DATE	APP

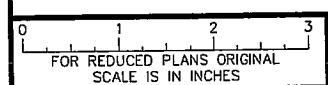


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**FRONT STREET REVITALIZATION**  
**(A STREET TO HIGHWAY 101 SOUTH)**  
**DRAINAGE DETAILS**



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CHECKED BY	HEM
DATE	July 9, 2012
SCALE	AS SHOWN
JOB NO.	11009
DRAWING NUMBER	DD-2
SHEET NUMBER	57 OF 114



DESIGN OVERSIGHT  
 SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

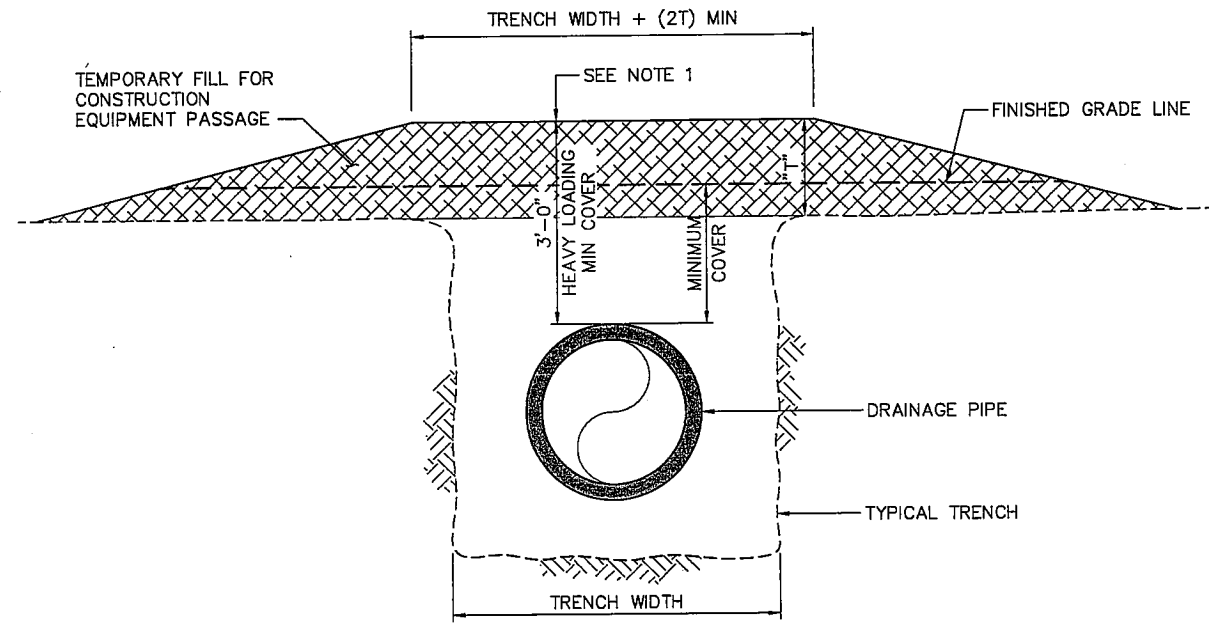
QUALITY CONTROL APPROVAL  
 Q.C. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**dh drake haglan AND ASSOCIATES**  
 11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95870



PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL FRONT STREET DD-1\_DD-3.DWG

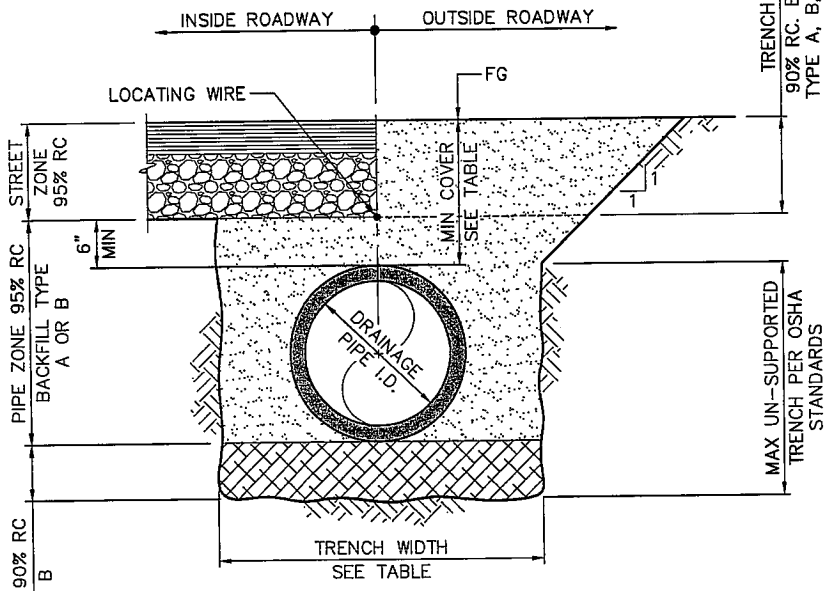
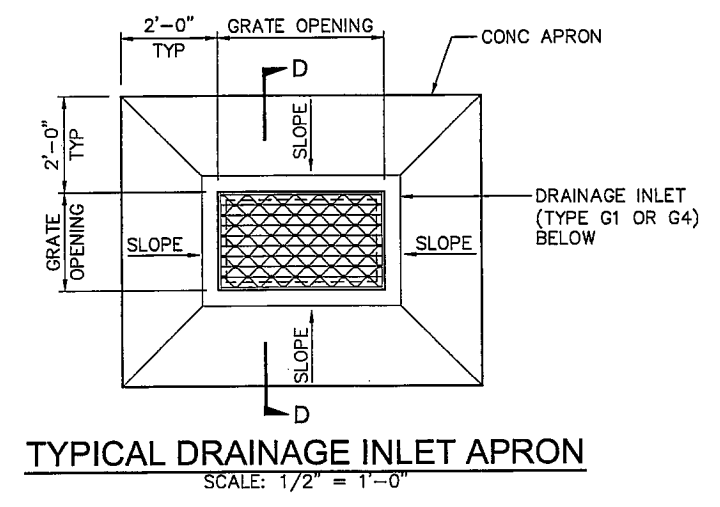
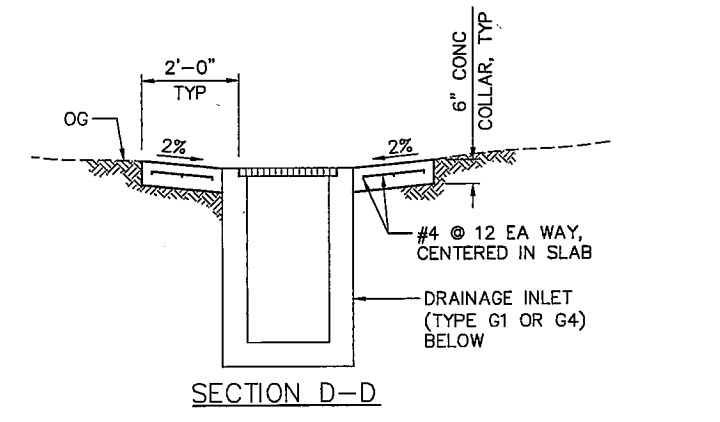
HDPE PIPE DATA TABLE		
PIPE SIZE	MINIMUM COVER	MINIMUM TRENCH WIDTH
12"ø	1'-0"	2'-6"
15"ø	1'-0"	2'-10"
18"ø	1'-0"	3'-3"
24"ø	1'-0"	4'-0"
30"ø	1'-0"	4'-8"
36"ø	1'-0"	5'-4"
48"ø	1'-0"	6'-8"
54"ø	2'-0"	7'-4"



**NOTE:**

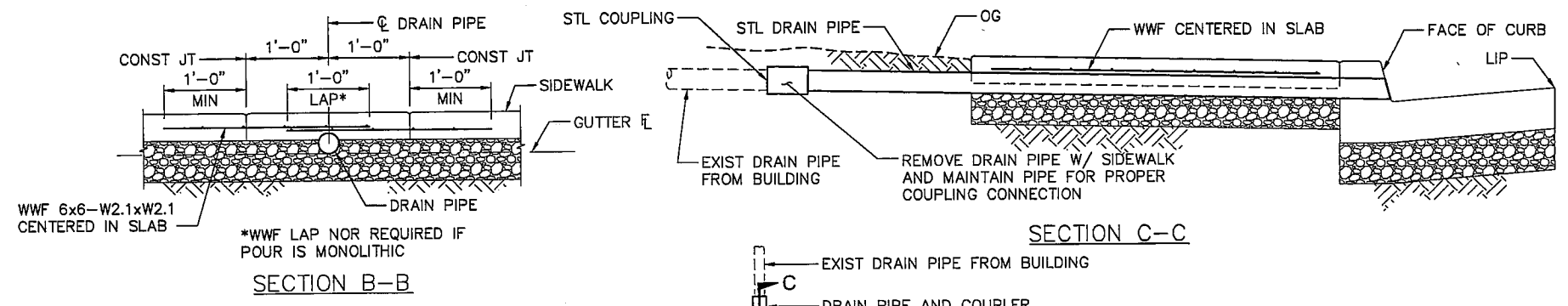
- WHEN CONSTRUCTION EQUIPMENT LOADS OVER PIPE ARE BETWEEN 30 AND 60 TONS, PLACE TEMPORARY FILL AS SHOWN TO PROTECT PIPE FROM EXCESSIVE LOADING.
- FOR MINIMUM COVER REQUIREMENTS, SEE DRAINAGE SYSTEM DESIGN DATA ON SHEET D-1

**CONSTRUCTION EQUIPMENT LOADING**  
SCALE: 1" = 1'



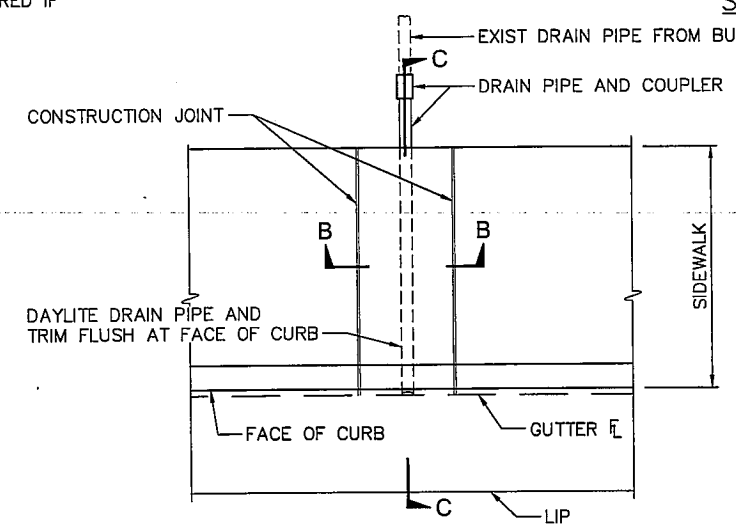
- BACKFILL MATERIALS:**
- IMPORTED WASHED SAND FREE OF CLAY OR ORGANIC MATERIAL. MATERIAL SHALL HAVE A SAND EQUIVALENT NOT LESS THAN 28 PER ASTM D2419.
  - CEMENT SLURRY BACKFILL CONSISTING OF TYPE I OR II PORTLAND CEMENT, IMPORTED SAND, AND SUFFICIENT WATER FOR WORKABILITY. THE MIX SHALL PRODUCE A MINIMUM AND MAXIMUM 28-DAY STRENGTH OF 50 AND 100 PSI, RESPECTIVELY, SEE NOTE B.
  - EXCAVATED NATIVE MATERIAL LESS THAN 10 FEET DEEP, SCREENED TO A 3-INCH MAXIMUM DIMENSION. MATERIAL SHALL BE MIXED OR BLENDED WITH FINER GRAINED MATERIAL AS TO AVOID NESTED COBBLES. MATERIAL SHALL BE FREE OF POTENTIALLY EXPANSIVE FAT CLAY SOILS AND APPROVED FOR USE AS A TRENCH ZONE BACKFILL BY THE CITY PRIOR TO INCORPORATING INTO THE WORK.

**TYPICAL TRENCH DETAIL**  
SCALE: 1" = 1'



\*WWF LAP NOT REQUIRED IF POUR IS MONOLITHIC

**SECTION B-B**



**TYPICAL DRAIN UNDER SIDEWALK**  
SCALE: 1/2" = 1'-0"

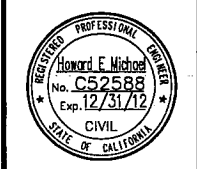
NO.	REVISION	DATE	APP



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**FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 DRAINAGE DETAILS**



DESIGN BY	DCP
DRAWN BY	DCP
CHECKED BY	HEM
DATE	July 9, 2012
SCALE	AS SHOWN
JOB NO.	11009

DRAWING NUMBER  
**DD-3**

SHEET NUMBER  
56 OF 114

DESIGN OVERSIGHT		QUALITY CONTROL APPROVAL	
SUPERVISION BY	R.C.E. NUMBER	R.C.E. NUMBER	SIGNATURE

11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670

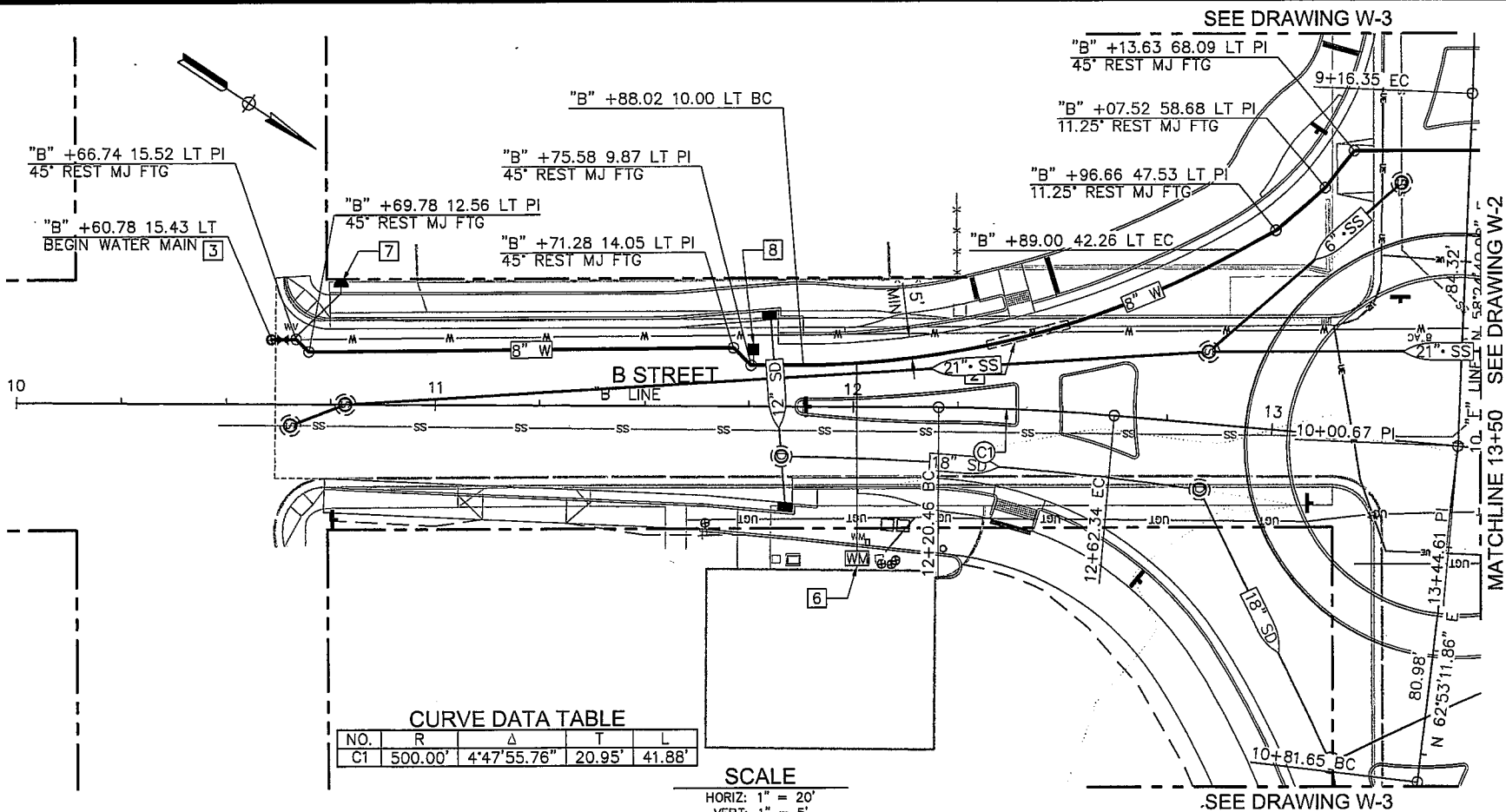
**WATER MAIN NOTES:**

- 1 CONNECT TO EXISTING WATER MAIN. SEE "FRONT STREET WATER MAIN TIE-IN DETAILS" ON DRAWING WD-2.
  - 2 PLACE STEEL CASING WHERE WATER LINE CROSSES UNDER TEXTURED CONCRETE CROSSWALK, SEE TYPICAL WATER MAIN CASING DETAIL ON DRAWING WD-4.
  - 3 CONNECT TO EXISTING WATER MAIN, SEE "CROSS STREET WATER MAIN TIE-IN DETAILS" ON DRAWING WD-2.
  - 4 WATER MAIN LATERAL, SEE "WATER MAIN INTERSECTION DETAIL" ON DRAWING WD-2.
  - 5 SEE "FIRE HYDRANT DETAIL" ON DRAWING WD-2.
  - 6 WATER SERVICE METER, SEE "SERVICE METER DETAIL" ON DRAWING WD-1.
  - 7 COMBINATION AIR AND VACUUM VALVE, SEE "COMBINATION AIR VALVE (CAV) DETAIL" ON DRAWING WD-1.
  - 8 WATER MAIN DEWATERING AND FLUSHING BLOW-OFF VALVE, SEE "BLOW-OFF (BOV) DETAIL" ON DRAWING WD-1.
  - 9 INSTALL REST MJ TEE WITH TEMPORARY COUPLING TO EXIST AC PIPE SIMILAR TO THAT SHOWN IN "FRONT STREET WATER MAIN TIE-IN DETAILS" ON DRAWING WD-2. REMOVE COUPLING AND INSTALL BF ON TEE AT THE COMPLETION OF STAGE 2.
  - 10 DURING STAGE 1 CONSTRUCTION, INSTALL TEMPORARY BF ON EASTERLY GV FOR FUTURE CONNECTION IN STAGE 2. EASTERLY GV TO BE CLOSED DURING STAGE 1. REMOVE BF W/ STAGE 2 TIE-IN.
- \* ALL FITTINGS SHALL BE MECHANICAL JOINT DUCTILE IRON WITH MEGA-LUG RESTRAINER GLANDS UON.  
 \*\* ALL PIPE SHALL BE C900 PVC CLASS 200 UON.

**WATER MAIN ABBREVIATIONS:**

- AC = ASBESTOS CONCRETE
- ACP = ASBESTOS CONCRETE PIPE
- BF = BLIND FLANGE
- BOV = BLOW-OFF VALVE
- CAV = COMBINATION AIR VALVE
- COMB = COMBINED
- DEFL = DEFLECTION
- DI = DUCTILE IRON
- DIP = DUCTILE IRON PIPE
- FTG = FITTING
- INV = INVERT
- MJ = MECHANICAL JOINT
- REST = RESTAINED, RESTRAINT
- WM = WATER METER

\* FOR ABBREVIATION NOT SHOWN HERE, REFER TO STANDARD PLAN A10A & A10B.

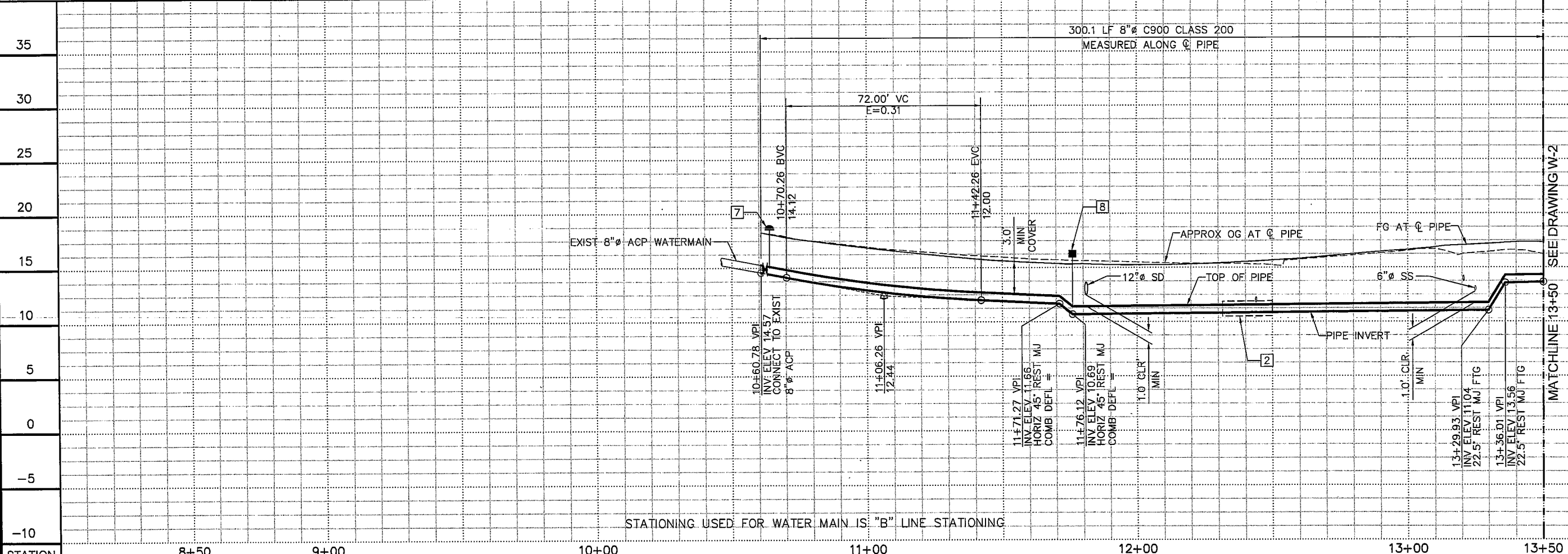


**CURVE DATA TABLE**

NO.	R	Δ	T	L
C1	500.00'	4°47'55.76"	20.95'	41.88'

**SCALE**  
 HORIZ: 1" = 20'  
 VERT: 1" = 5'

DATUM



STATIONING USED FOR WATER MAIN IS: "B" LINE STATIONING

DATUM

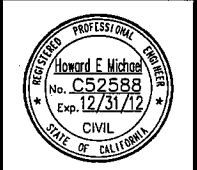
**FINAL SUBMITTAL - NOT FOR CONSTRUCTION**

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DCP DATE APP

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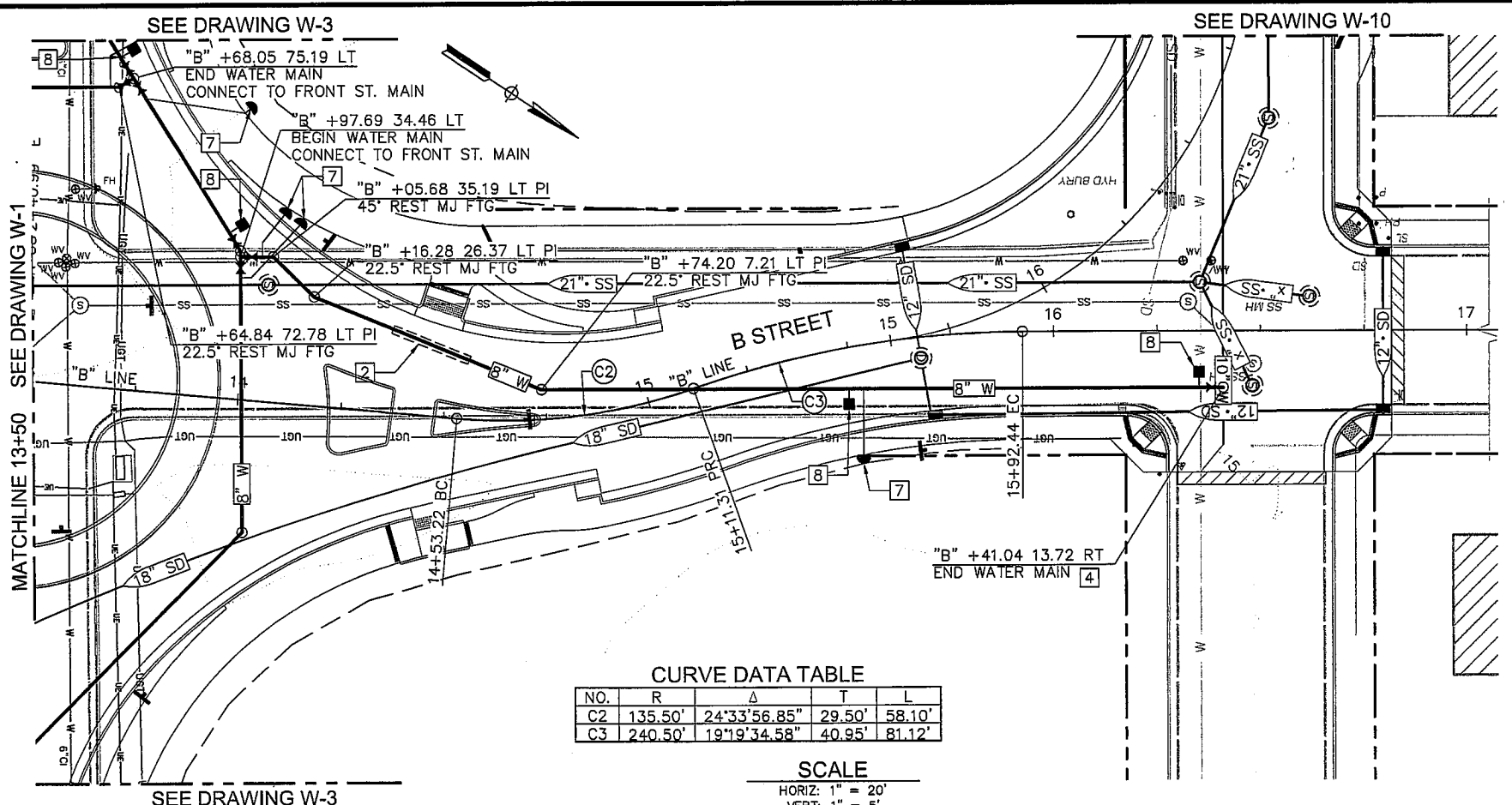
**FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 WATERLINE PLAN AND PROFILE  
 STA 10+00 to STA 13+50**



DESIGN BY	DCP
DRAWN BY	DCP
CHECKED BY	HEM
DATE	July 9, 2012
SCALE	AS SHOWN
JOB NO.	11009
DRAWING NUMBER	<b>W-1</b>
SHEET NUMBER	57 OF 114

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\W-1\_W-9.DWG

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET W-1\_W-9.DWG

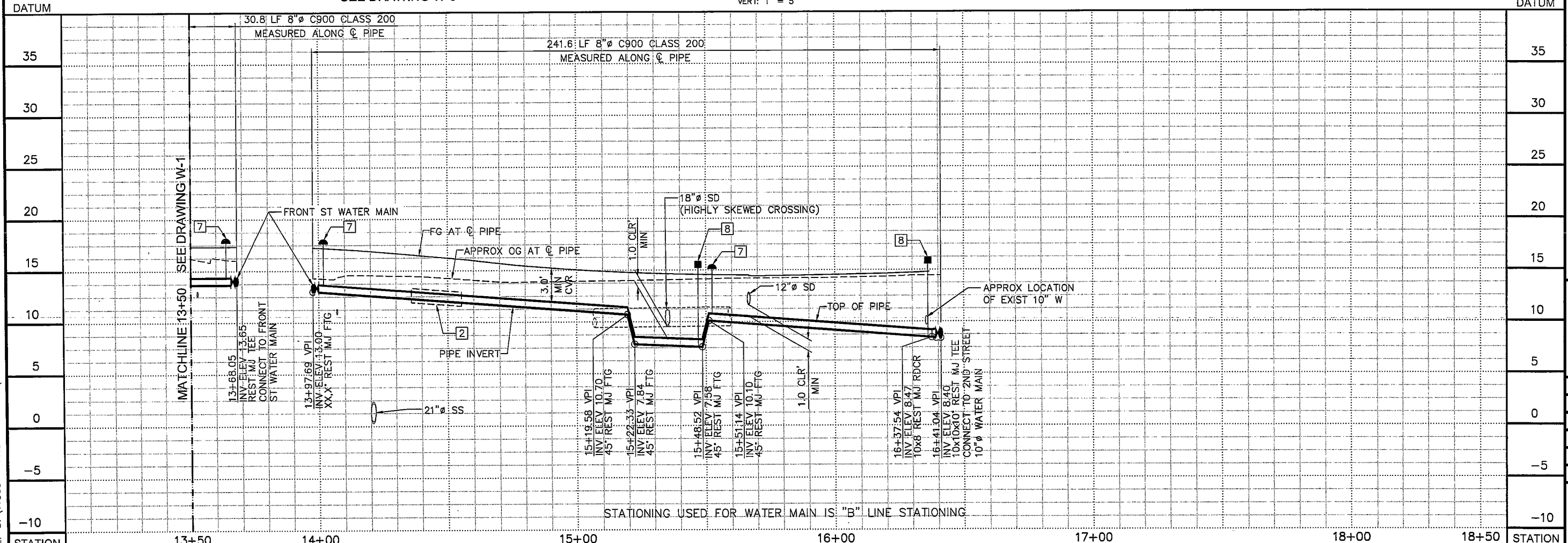


**CURVE DATA TABLE**

NO.	R	Δ	T	L
C2	135.50'	24°33'56.85"	29.50'	58.10'
C3	240.50'	19°19'34.58"	40.95'	81.12'

**SCALE**  
 HORIZ: 1" = 20'  
 VERT: 1" = 5'

**NOTE:**  
 FOR KEY NOTES [X], SEE  
 WATERLINE PLAN AND PROFILE  
 SHEET W-1



0 1 2 3 FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES	SUPERVISION BY _____ R.C.E. NUMBER _____ SIGNATURE _____ DATE _____	Q.C. REVIEW BY _____ R.C.E. NUMBER _____ SIGNATURE _____ DATE _____	DESIGN OVERSIGHT QUALITY CONTROL APPROVAL
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**FINAL SUBMITTAL - NOT FOR CONSTRUCTION**

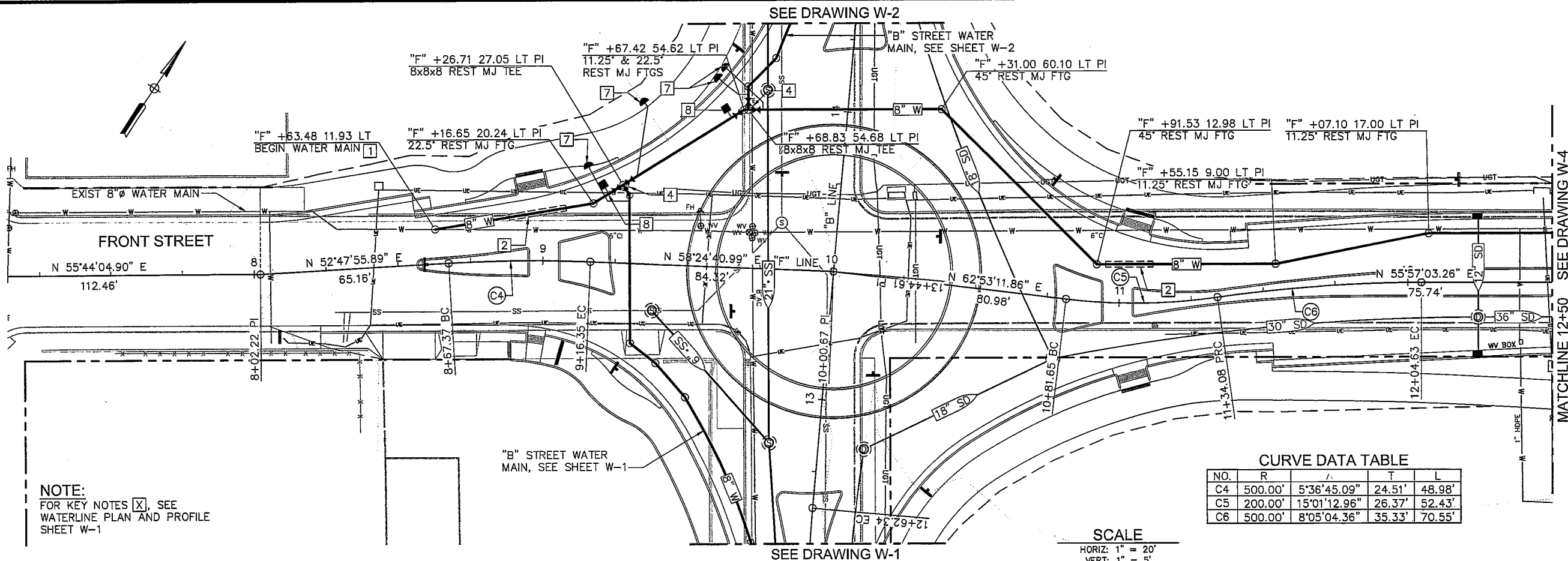
NO.	REVISION	DCP	DATE	APP

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**FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 WATERLINE PLAN AND PROFILE  
 STA 13+50 TO STA 16+17.44**

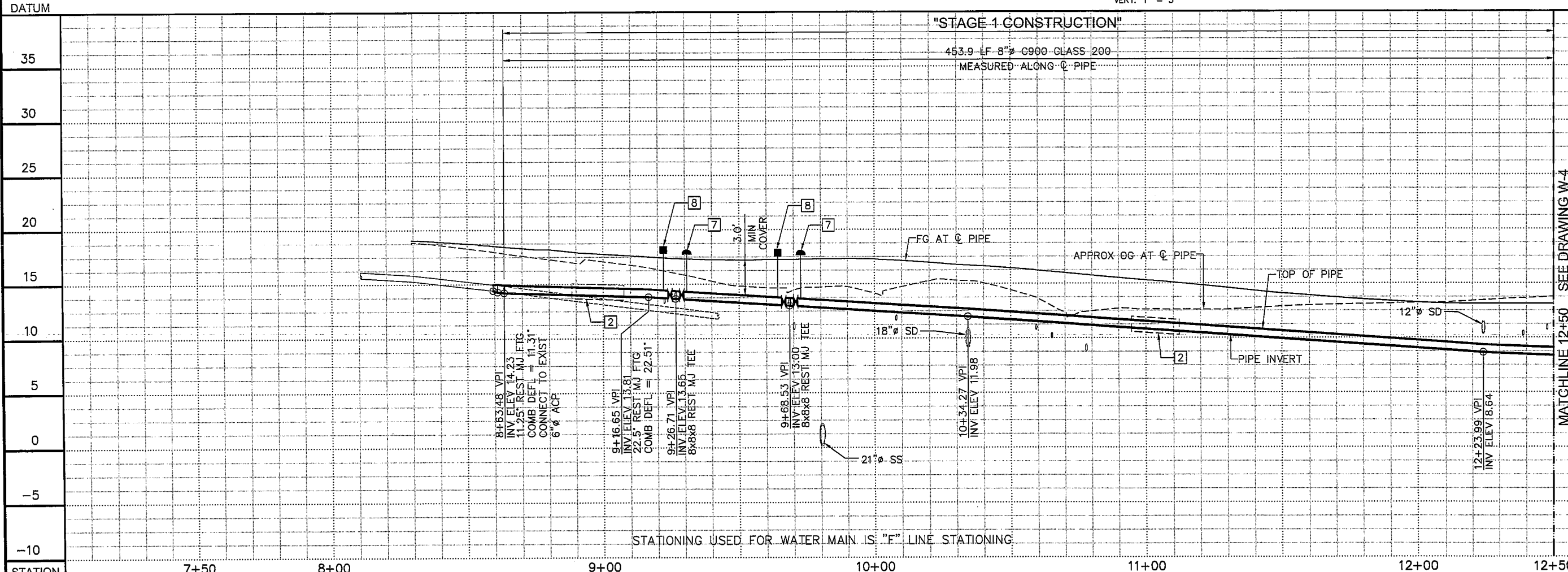
DESIGN BY DCP  
 DRAWN BY DCP  
 CHECKED BY HEM  
 DATE July 9, 2012  
 SCALE AS SHOWN  
 JOB NO. 11009  
 DRAWING NUMBER  
**W-2**  
 SHEET NUMBER  
 58 OF 114

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET W-1\_W-9.DWG



CURVE DATA TABLE

NO.	R	Δ	T	L
C4	500.00'	5°36'45.09"	24.51'	48.98'
C5	200.00'	15°01'12.96"	26.37'	52.43'
C6	500.00'	8°05'04.36"	35.33'	70.55'

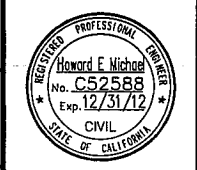


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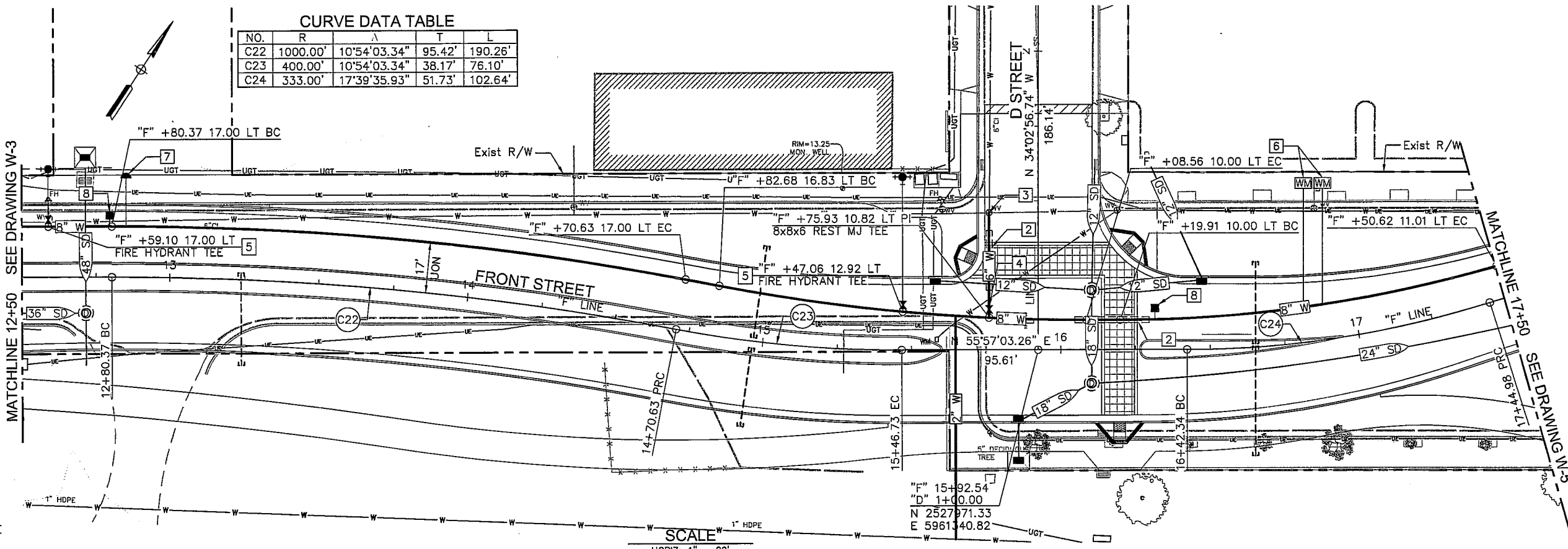
**FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 WATERLINE PLAN AND PROFILE  
 STA 7+17.86 to STA 12+50**



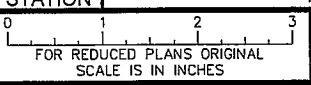
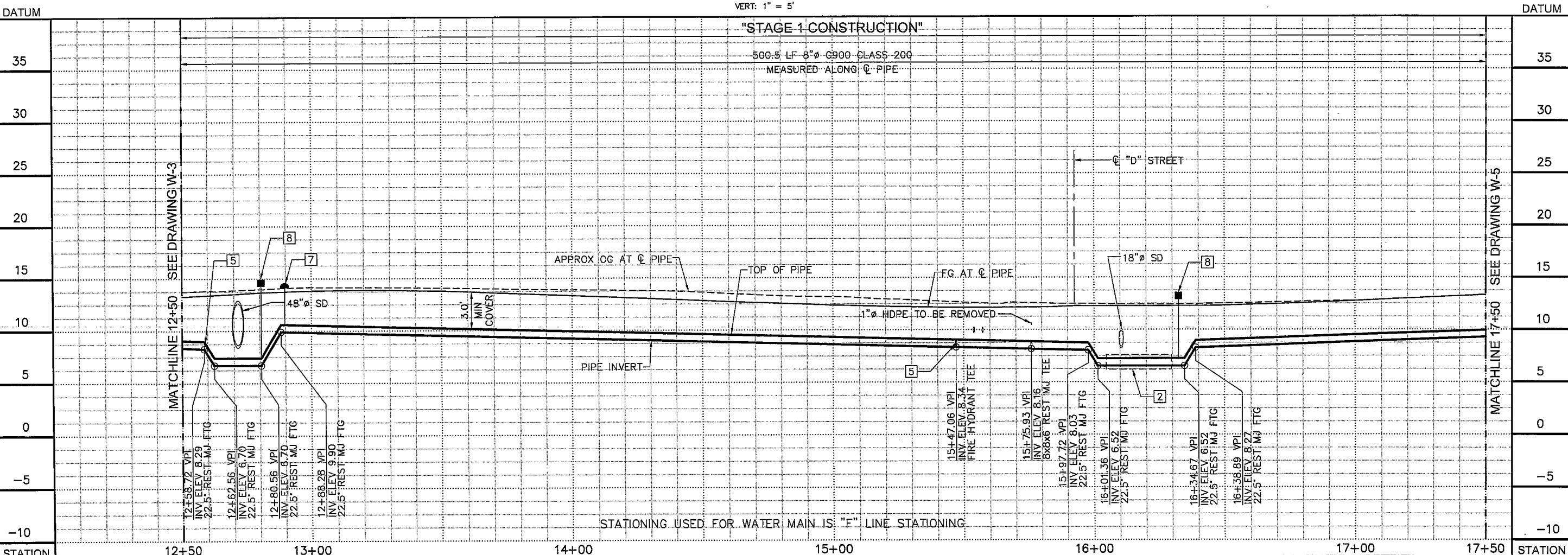
DESIGN BY DCP  
 DRAWN BY DCP  
 CHECKED BY HEM  
 DATE July 9, 2012  
 SCALE AS SHOWN  
 JOB NO. 11009  
 DRAWING NUMBER  
**W-3**  
 SHEET NUMBER

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET W-1\_W-9.DWG

NO.	R	Δ	T	L
C22	1000.00'	10°54'03.34"	95.42'	190.26'
C23	400.00'	10°54'03.34"	38.17'	76.10'
C24	333.00'	17°39'35.93"	51.73'	102.64'



NOTE:  
 FOR KEY NOTES [X], SEE  
 WATERLINE PLAN AND PROFILE  
 SHEET W-1



DESIGN OVERSIGHT: \_\_\_\_\_  
 R.C.E. NUMBER: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
 QUALITY CONTROL APPROVAL: \_\_\_\_\_  
 R.C.E. NUMBER: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

**dh drake haglan AND ASSOCIATES**  
 11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670

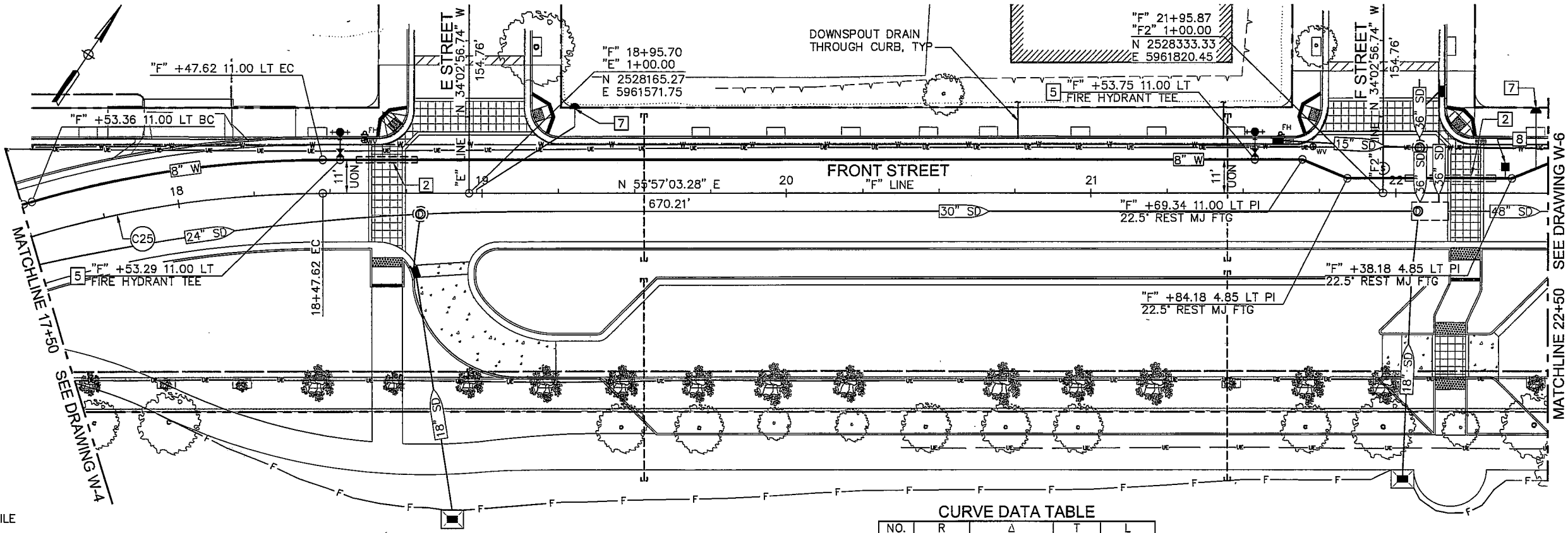
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FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 WATERLINE PLAN AND PROFILE  
 STA 12+50 TO STA 17+50

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 DRAWN BY DCP  
 CHECKED BY HEM  
 DATE July 9, 2012  
 SCALE AS SHOWN  
 JOB NO. 11009  
 DRAWING NUMBER  
**W-4**  
 SHEET NUMBER  
 60 OF 114

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\FRONT STREET W-1\_W-9.DWG

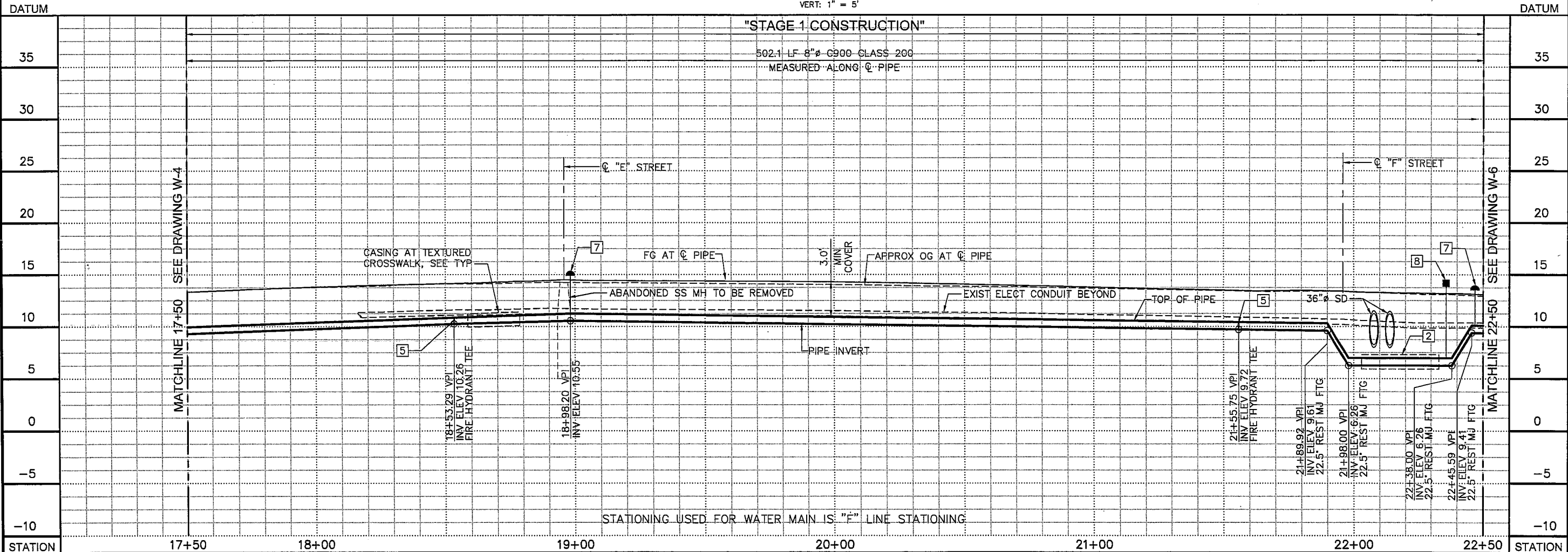


NOTE:  
 FOR KEY NOTES [X], SEE  
 WATERLINE PLAN AND PROFILE  
 SHEET W-1

**CURVE DATA TABLE**

NO.	R	Δ	T	L
C25	333.00'	17°39'35.44"	51.73'	102.64'

**SCALE**  
 HORIZ: 1" = 20'  
 VERT: 1" = 5'



STATIONING USED FOR WATER MAIN IS: "F" LINE STATIONING

**FINAL SUBMITTAL - NOT FOR CONSTRUCTION**

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**FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 WATERLINE PLAN AND PROFILE  
 STA 17+50 TO STA 22+50**



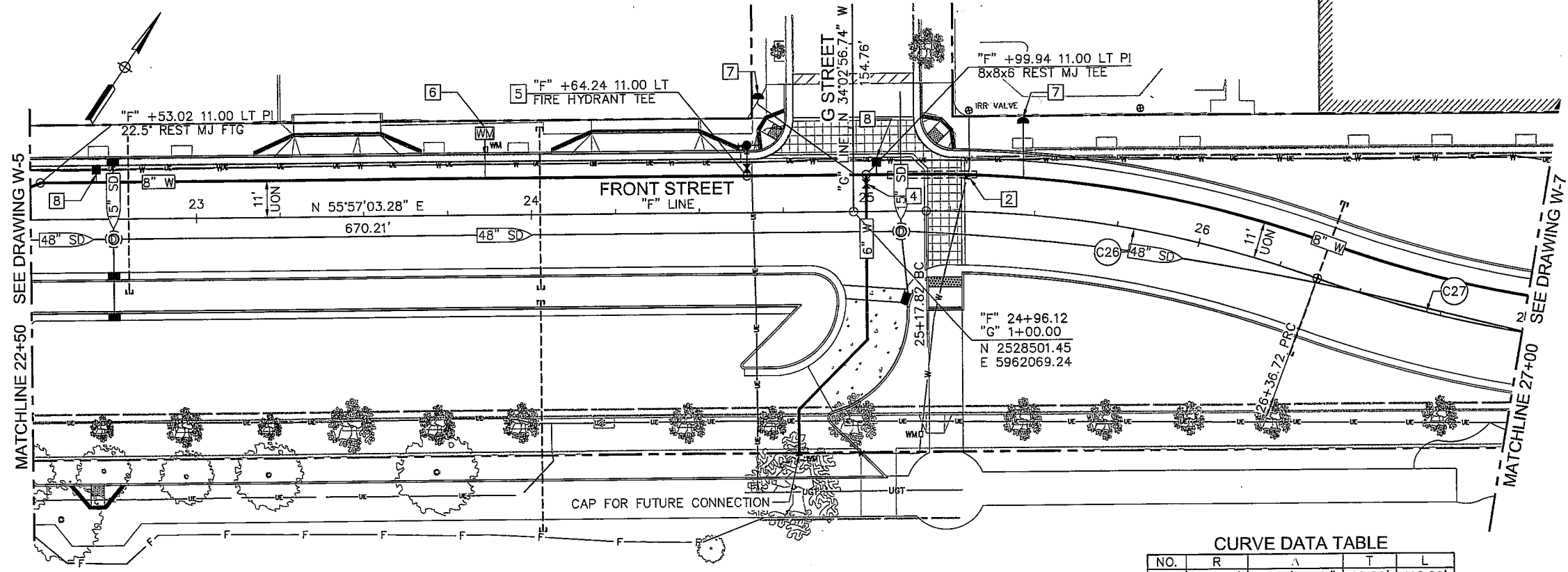
DESIGN BY DCP  
 DRAWN BY DCP  
 CHECKED BY HEM  
 DATE July 9, 2012  
 SCALE AS SHOWN  
 JOB NO. 11009

DRAWING NUMBER  
**W-5**  
 SHEET NUMBER  
 61 of 114

DESIGN OVERSIGHT				QUALITY CONTROL APPROVAL			
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE	Q.C. REVIEW BY	R.C.E. NUMBER	SIGNATURE	DATE

**dh drake haglan AND ASSOCIATES** 11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670

PLOT BY: CRAG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\FRONT STREET W-1\_W-9.DWG

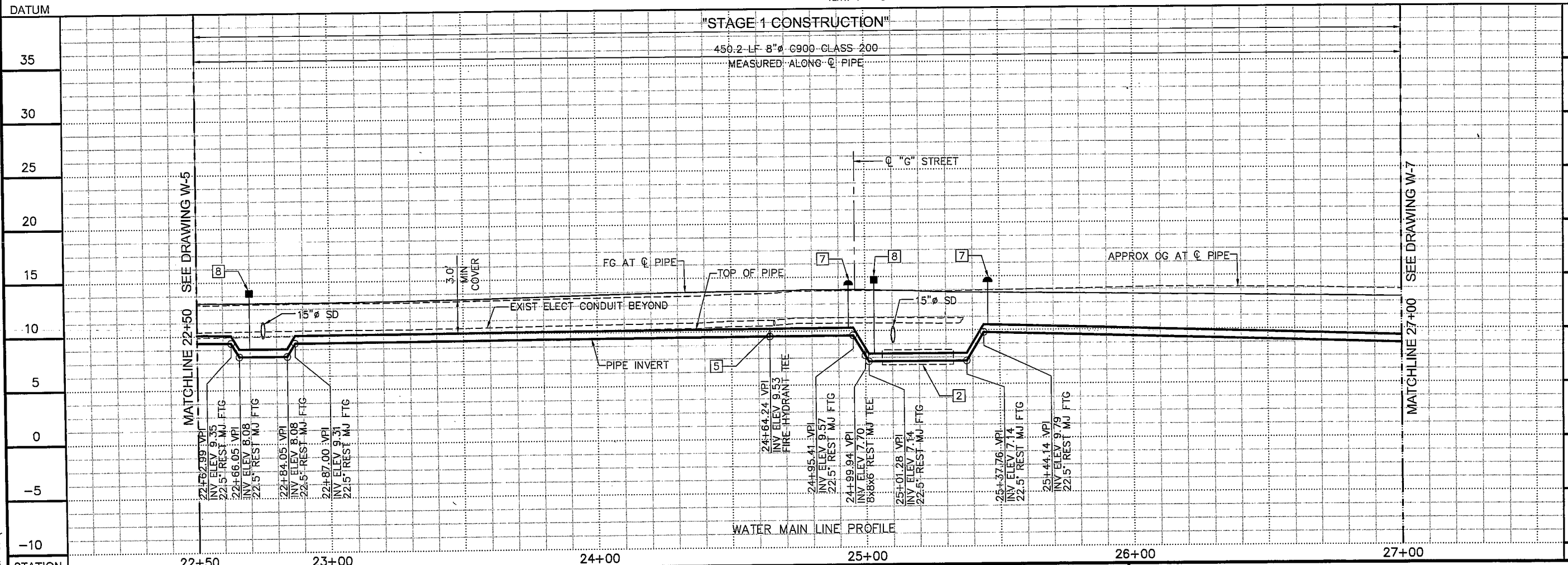


**CURVE DATA TABLE**

NO.	R	A	T	L
C26	333.00'	20°27'24.07"	60.09'	118.89'
C27	333.00'	20°27'23.91"	60.09'	118.89'

**SCALE**  
 HORIZ: 1" = 20'  
 VERT: 1" = 5'

**NOTE:**  
 FOR KEY NOTES [X], SEE WATERLINE PLAN AND PROFILE SHEET W-1



DATUM  
 STATION

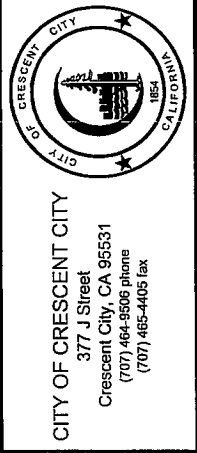
DESIGN OVERSIGHT  
 SUPERVISION BY: \_\_\_\_\_ R.C.E. NUMBER: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

QUALITY CONTROL APPROVAL  
 Q.C. REVIEW BY: \_\_\_\_\_ R.C.E. NUMBER: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

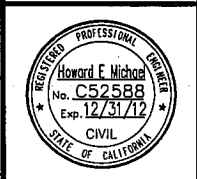
**dh drake haglan AND ASSOCIATES**  
 11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670

**FINAL SUBMITTAL - NOT FOR CONSTRUCTION**

NO.	REVISION	DCP	DATE	APP



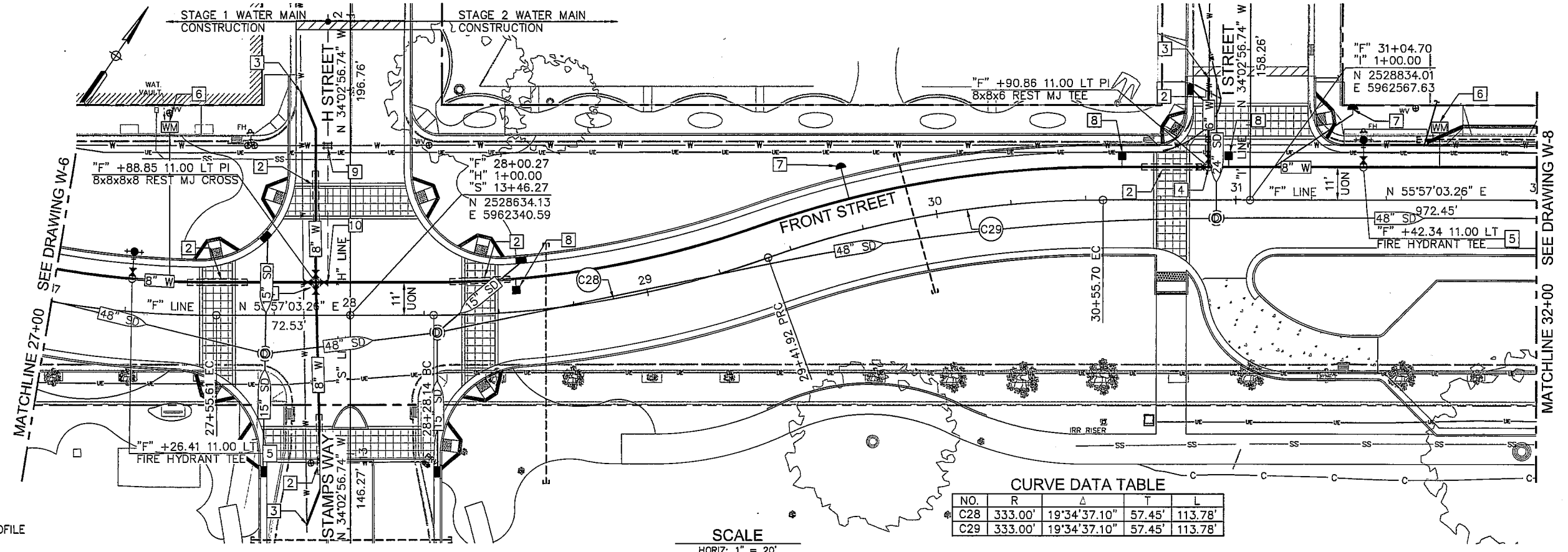
**FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 WATERLINE PLAN AND PROFILE  
 STA 22+50 TO STA 27+00**



DESIGN BY: DCP  
 DRAWN BY: DCP  
 CHECKED BY: HEM  
 DATE: July 9, 2012  
 SCALE: AS SHOWN  
 JOB NO. 11009

DRAWING NUMBER  
**W-6**  
 SHEET NUMBER  
 62 OF 114

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET W-1\_W-9.DWG

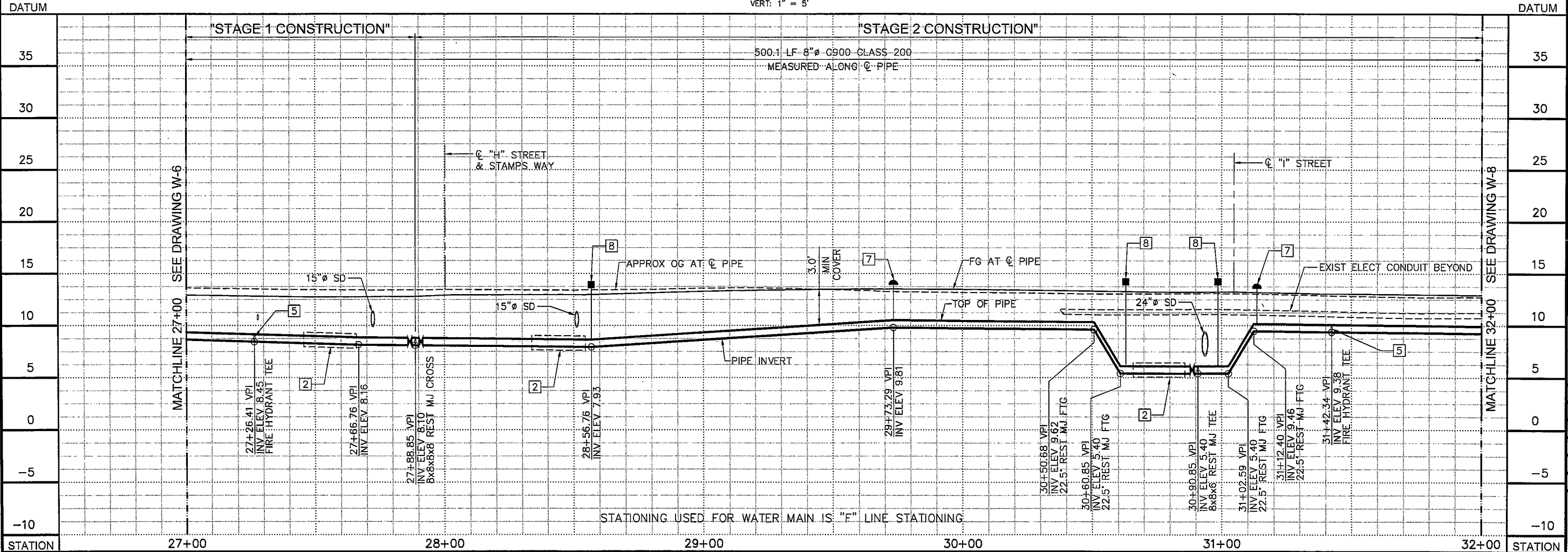


**NOTE:**  
 FOR KEY NOTES [X], SEE WATERLINE PLAN AND PROFILE SHEET W-1

**SCALE**  
 HORIZ: 1" = 20'  
 VERT: 1" = 5'

**CURVE DATA TABLE**

NO.	R	Δ	T	L
C28	333.00'	19°34'37.10"	57.45'	113.78'
C29	333.00'	19°34'37.10"	57.45'	113.78'



STATIONING USED FOR WATER MAIN IS: "F" LINE STATIONING

DESIGN OVERSIGHT		QUALITY CONTROL APPROVAL	
SUPERVISION BY	R.C.E. NUMBER	Q.C. REVIEW BY	R.C.E. NUMBER
SIGNATURE	DATE	SIGNATURE	DATE

**FINAL SUBMITTAL - NOT FOR CONSTRUCTION**

NO.	REVISION	DCP	DATE	APP

CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 464-8908 phone  
 (707) 465-4405 fax

**FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 WATERLINE PLAN AND PROFILE  
 STA 27+00 TO STA 32+00**

PROFESSIONAL ENGINEER  
 Howard E. Michalek  
 No. C52588  
 Exp. 12/31/12  
 CIVIL  
 STATE OF CALIFORNIA

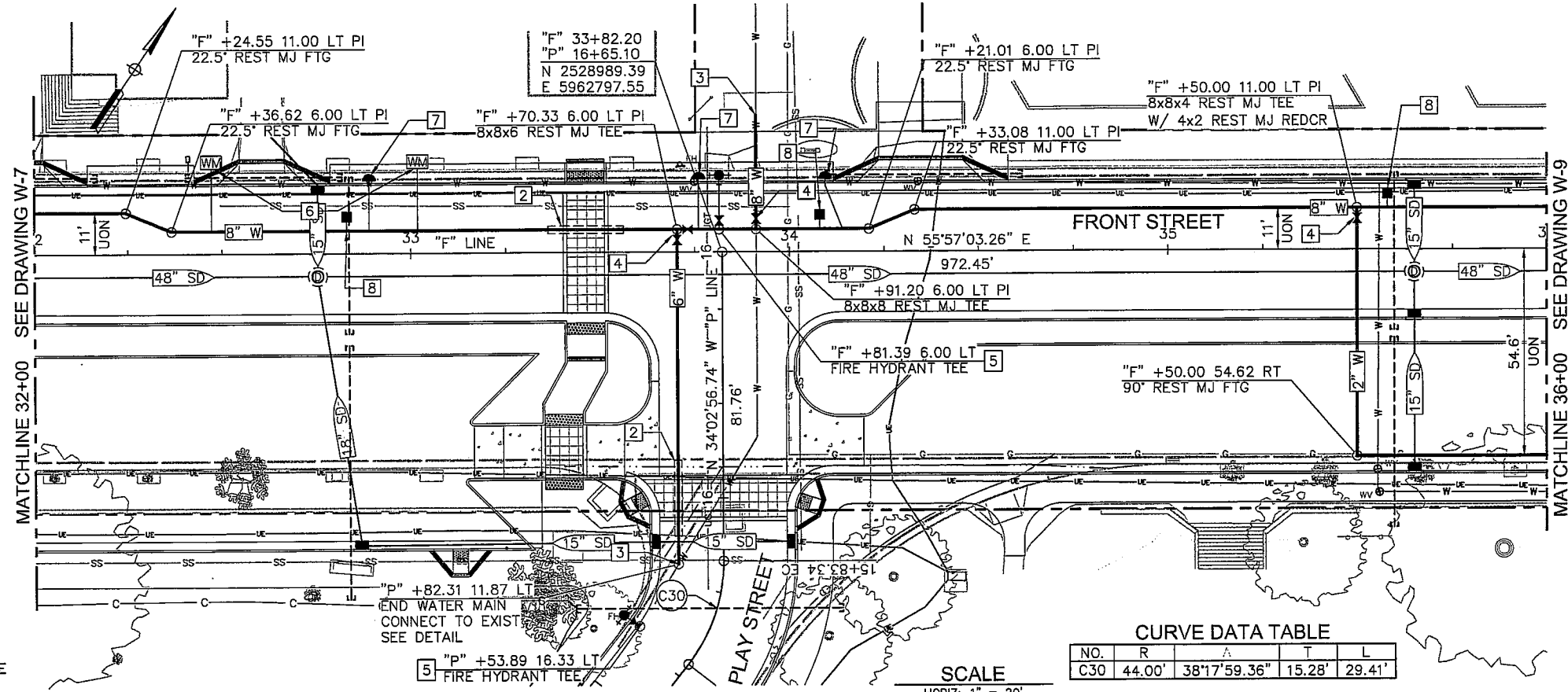
DESIGN BY DCP  
 DRAWN BY DCP  
 CHECKED BY HEM  
 DATE July 9, 2012  
 SCALE AS SHOWN  
 JOB NO. 11009

DRAWING NUMBER  
**W-7**

SHEET NUMBER  
 63 OF 114



PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET W-1\_W-9.DWG

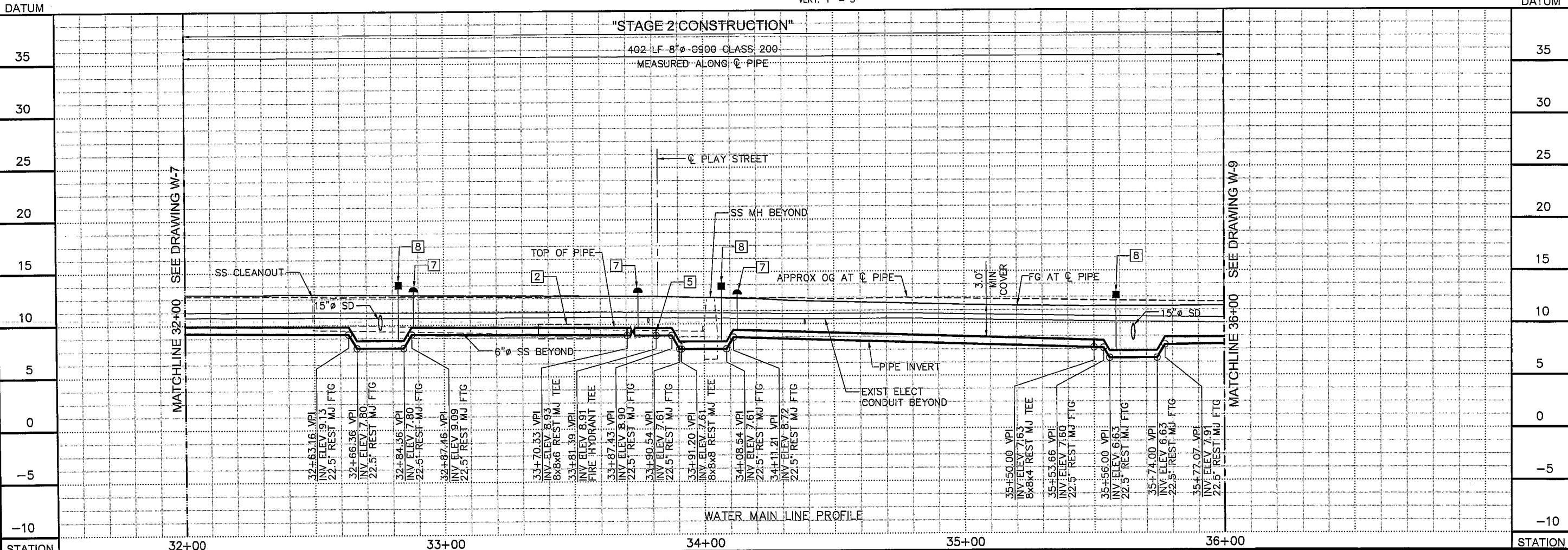


NOTE:  
 FOR KEY NOTES [X], SEE  
 WATERLINE PLAN AND PROFILE  
 SHEET W-1

CURVE DATA TABLE

NO.	R	A	T	L
C30	44.00'	38°17'59.36"	15.28'	29.41'

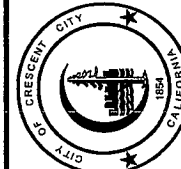
SCALE  
 HORIZ: 1" = 20'  
 VERT: 1" = 5'



STATION	32+00	33+00	34+00	35+00	36+00	STATION
DESIGN OVERSIGHT	SIGNATURE		DATE	QUALITY CONTROL APPROVAL		DATE
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE	R.C.E. NUMBER	SIGNATURE	DATE


**FINAL SUBMITTAL - NOT FOR CONSTRUCTION**

NO.	REVISION	DATE	APP



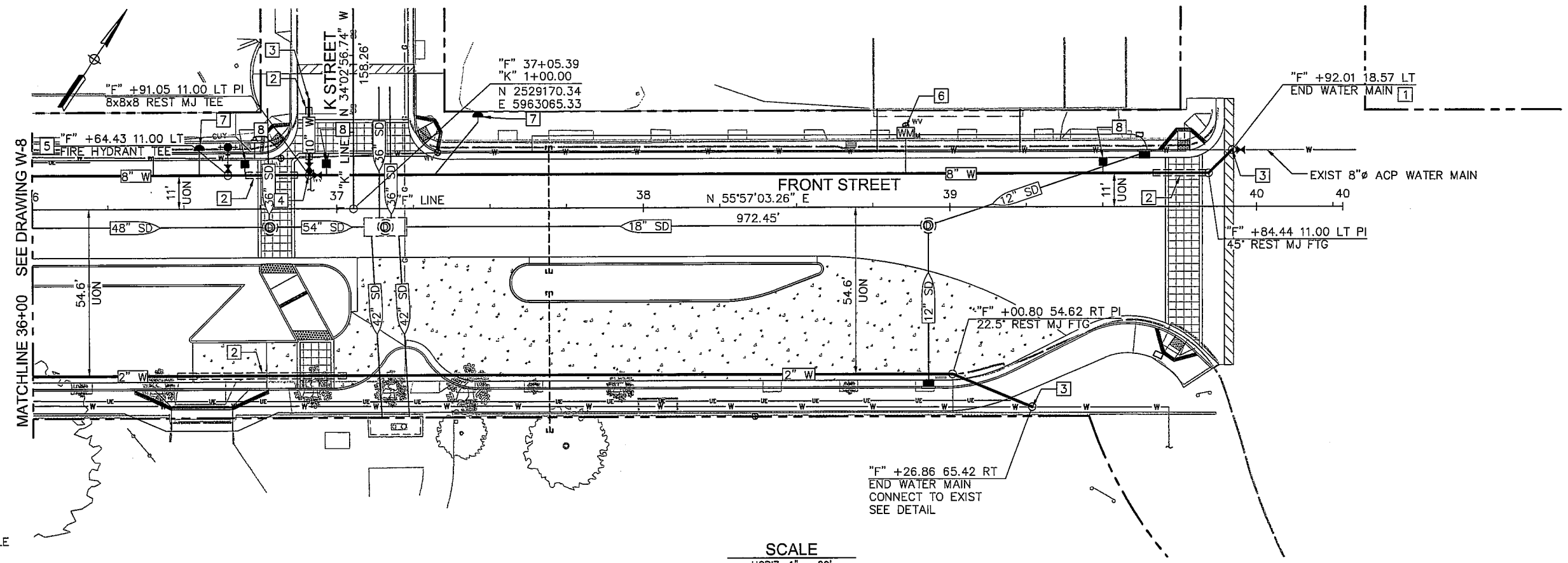
CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 465-3500 phone  
 (707) 465-4405 fax

**FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 WATERLINE PLAN AND PROFILE  
 STA 32+00 TO STA 36+00**



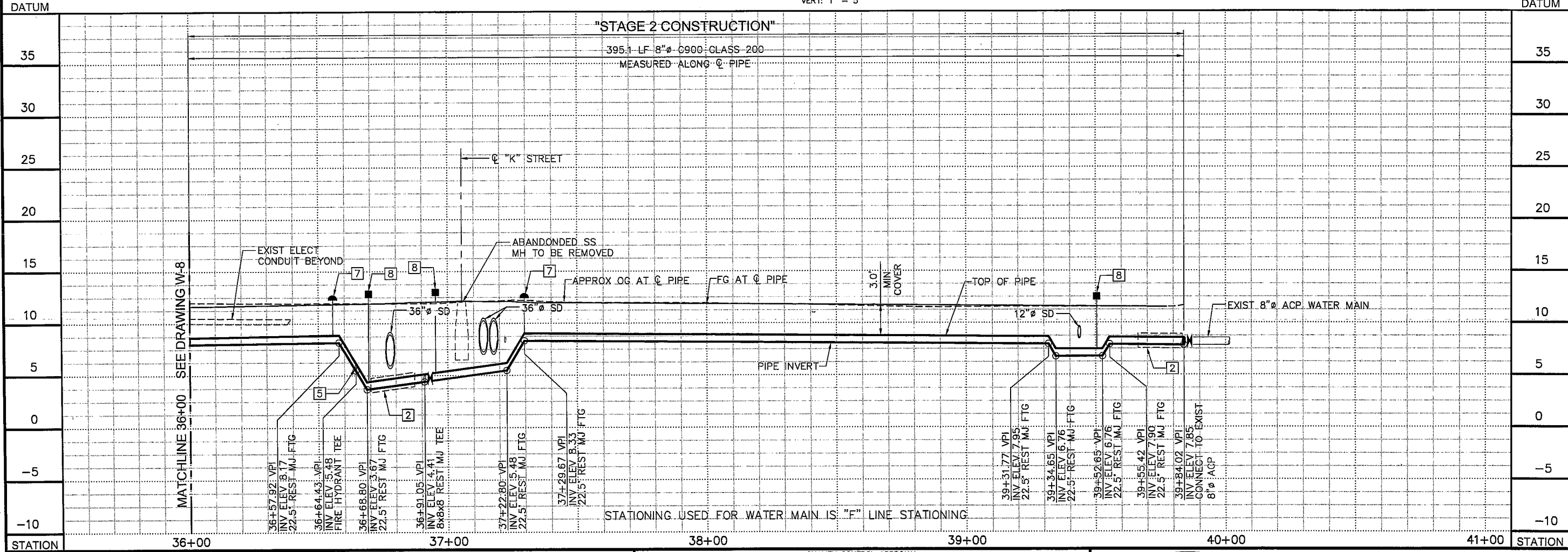
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 DRAWN BY DCP  
 CHECKED BY HEM  
 DATE July 9, 2012  
 SCALE AS SHOWN  
 JOB NO. 11009  
 DRAWING NUMBER  
**W-8**  
 SHEET NUMBER  
 64 OF 114

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\1009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET W-1\_W-9.DWG



**NOTE:**  
 FOR KEY NOTES [X], SEE  
 WATERLINE PLAN AND PROFILE  
 SHEET W-1


**SCALE**  
 HORIZ: 1" = 20'  
 VERT: 1" = 5'



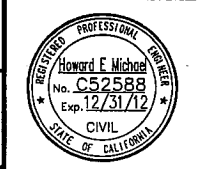
STATION	36+00	37+00	38+00	39+00	40+00	41+00	STATION
DESIGN OVERSIGHT							
SUPERVISION BY		R.C.E. NUMBER	SIGNATURE	DATE			
QUALITY CONTROL APPROVAL							
Q.C. REVIEW BY		R.C.E. NUMBER	SIGNATURE	DATE			

**FINAL SUBMITTAL - NOT FOR CONSTRUCTION**

NO.	REVISION	DCP	DATE	APP

  
 CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 464-9906 phone  
 (707) 465-4405 fax

**FRONT STREET REVITALIZATION**  
**(A STREET TO HIGHWAY 101 SOUTH)**  
**WATERLINE PLAN AND PROFILE**  
**STA 36+00 to STA 40+00**

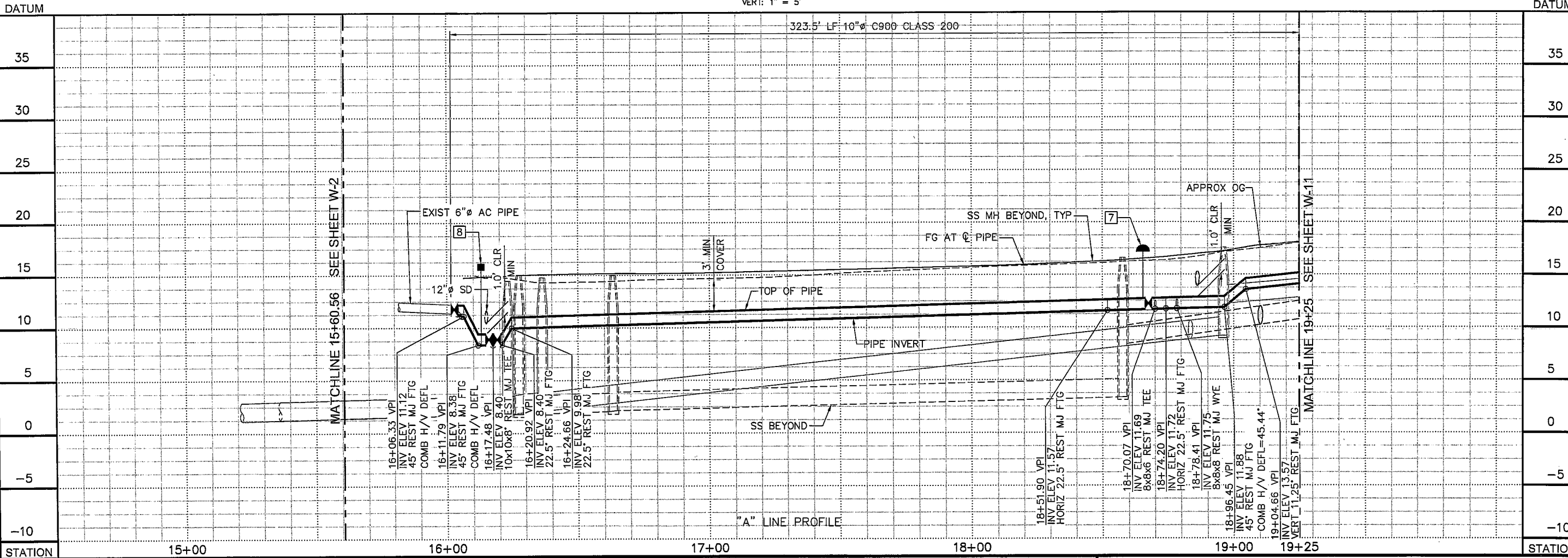
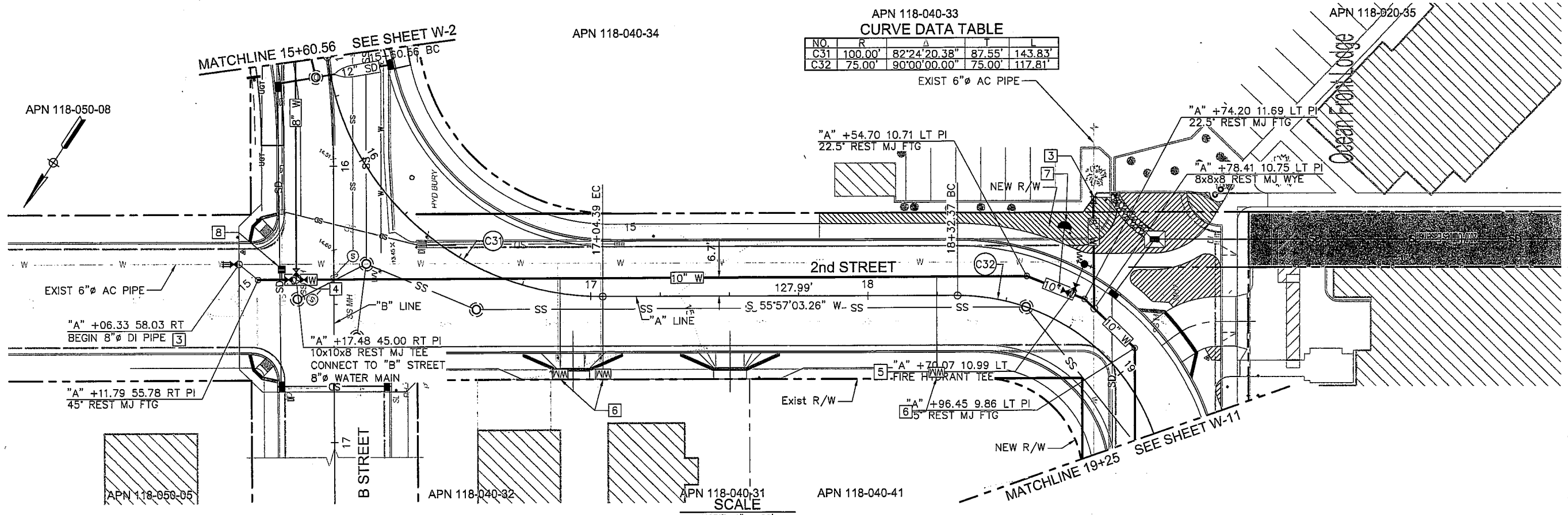
  
 Howard E. Michon  
 No. C52588  
 Exp. 12/31/12  
 CIVIL  
 STATE OF CALIFORNIA

DESIGN BY	DCP
DRAWN BY	DCP
CHECKED BY	HEM
DATE	July 9, 2012
SCALE	AS SHOWN
JOB NO.	11009
DRAWING NUMBER	<b>W-9</b>
SHEET NUMBER	65 OF 114

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012 CIVIL SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET W-10\_W-11.DWG  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET W-10\_W-11.DWG

APN 118-040-33  
**CURVE DATA TABLE**

NO.	R	Δ	T	L
C31	100.00'	82°24'20.38"	87.55'	143.83'
C32	75.00'	90°00'00.00"	75.00'	117.81'



**FINAL SUBMITTAL - NOT FOR CONSTRUCTION**

REVISION NO. DATE APP

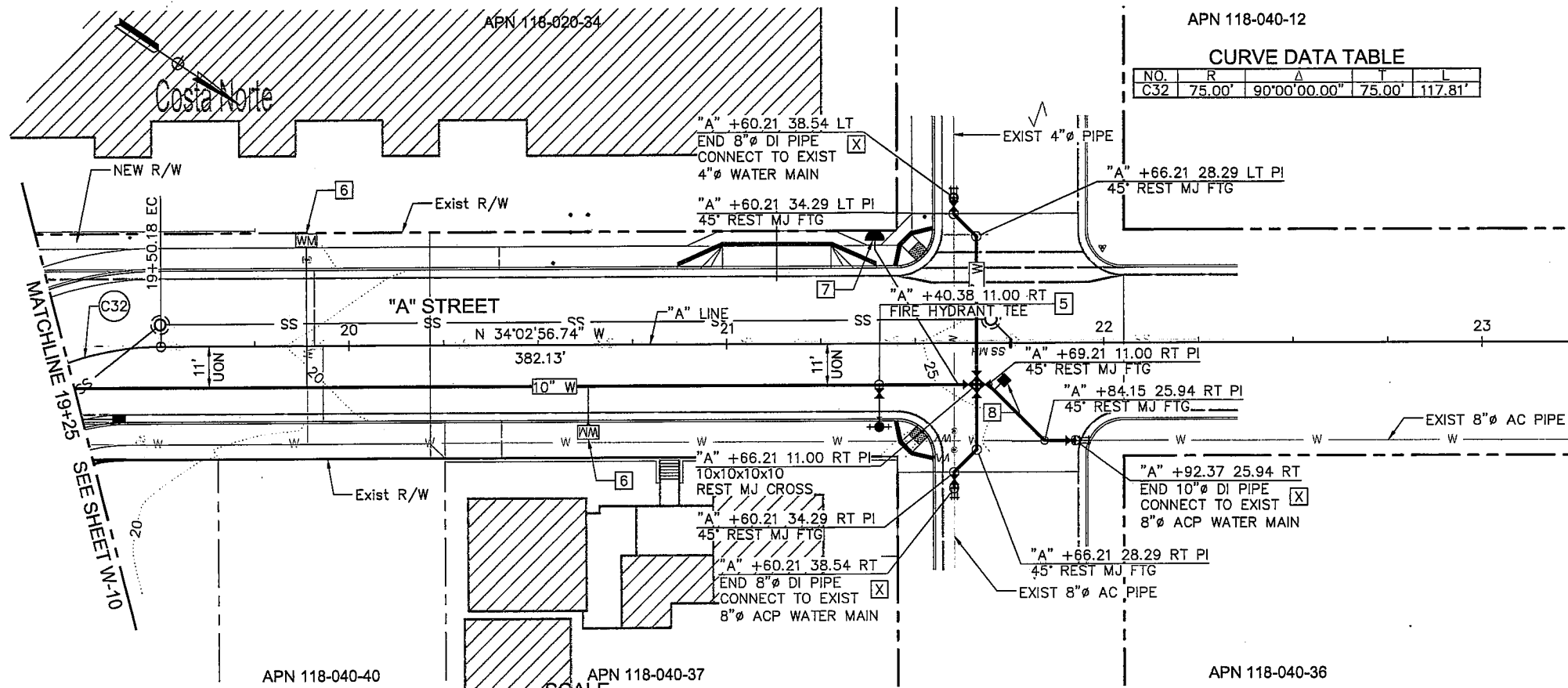
CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 664-9506 phone  
 (707) 465-4405 fax

**FRONT STREET REVITALIZATION**  
**(A STREET TO HIGHWAY 101 SOUTH)**  
**WATERLINE PLAN AND PROFILE**  
**STA 15+60.56 TO STA 19+25**

PROFESSIONAL ENGINEER  
 Howard E. Michael  
 No. C52588B  
 Exp. 12/31/12  
 CIVIL  
 STATE OF CALIFORNIA

DESIGN BY ---  
 DRAWN BY DCP  
 CHECKED BY HEM  
 DATE July 9, 2012  
 SCALE AS SHOWN  
 JOB NO. 11009  
 DRAWING NUMBER  
**W-10**  
 SHEET NUMBER

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET W-10\_W-11.DWG

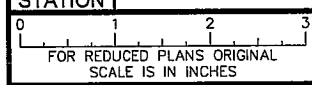
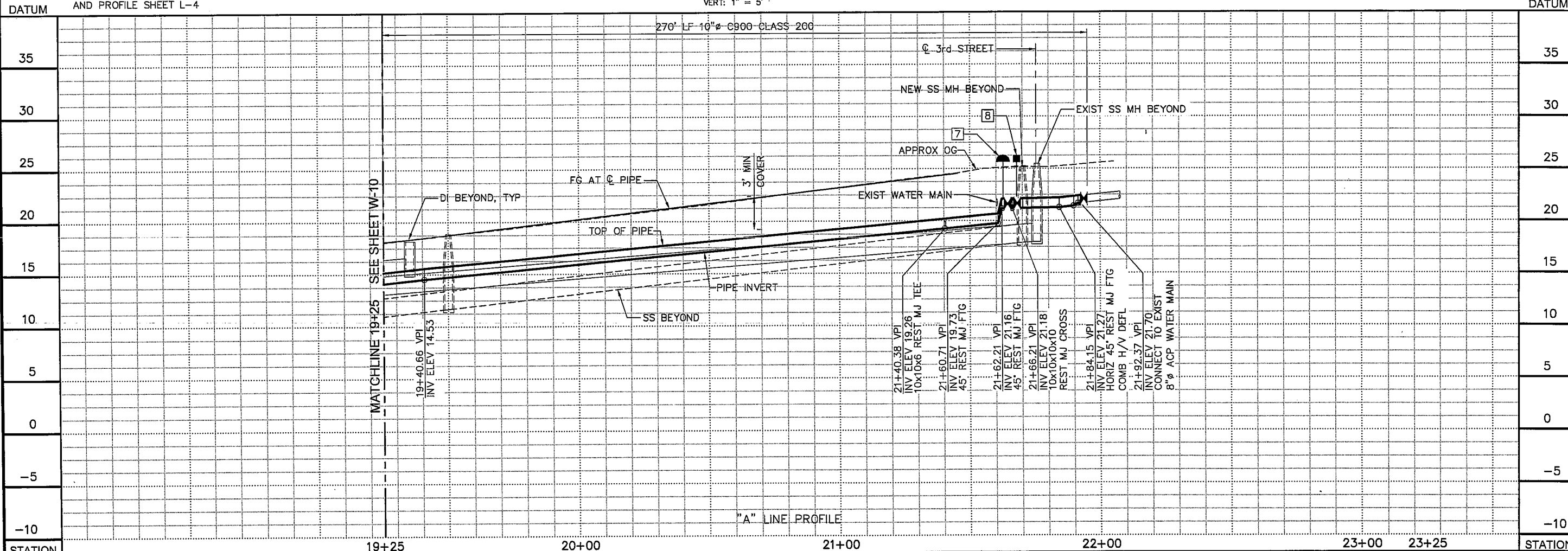


**CURVE DATA TABLE**

NO.	R	Δ	T	L
C32	75.00'	90°00'00.00"	75.00'	117.81'

**NOTE:**  
 FOR KEY NOTES [X], SEE LAYOUT  
 AND PROFILE SHEET L-4

**SCALE**  
 HORIZ: 1" = 20'  
 VERT: 1" = 5'



DESIGN OVERSIGHT		QUALITY CONTROL APPROVAL	
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE

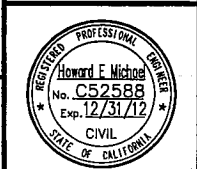
**dh drake haglan AND ASSOCIATES**  
 11050 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670

**FINAL SUBMITTAL - NOT FOR CONSTRUCTION**

NO.	REVISION	DCP	DATE	APP

**CITY OF CRESCENT CITY**  
 377 J Street  
 Crescent City, CA 95531  
 (707) 464-9506 phone  
 (707) 466-4405 fax

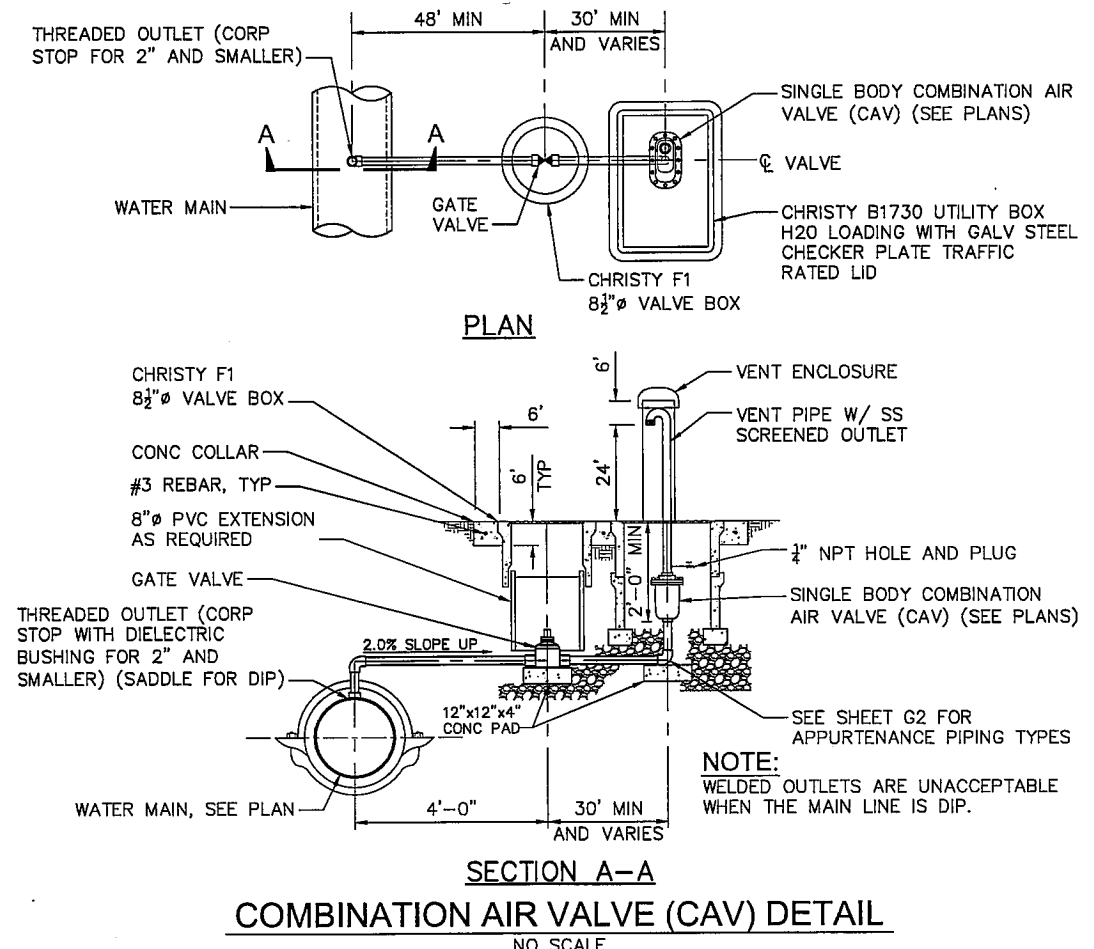
**FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 WATERLINE PLAN AND PROFILE  
 STA 19+25 TO STA 21+60.21**



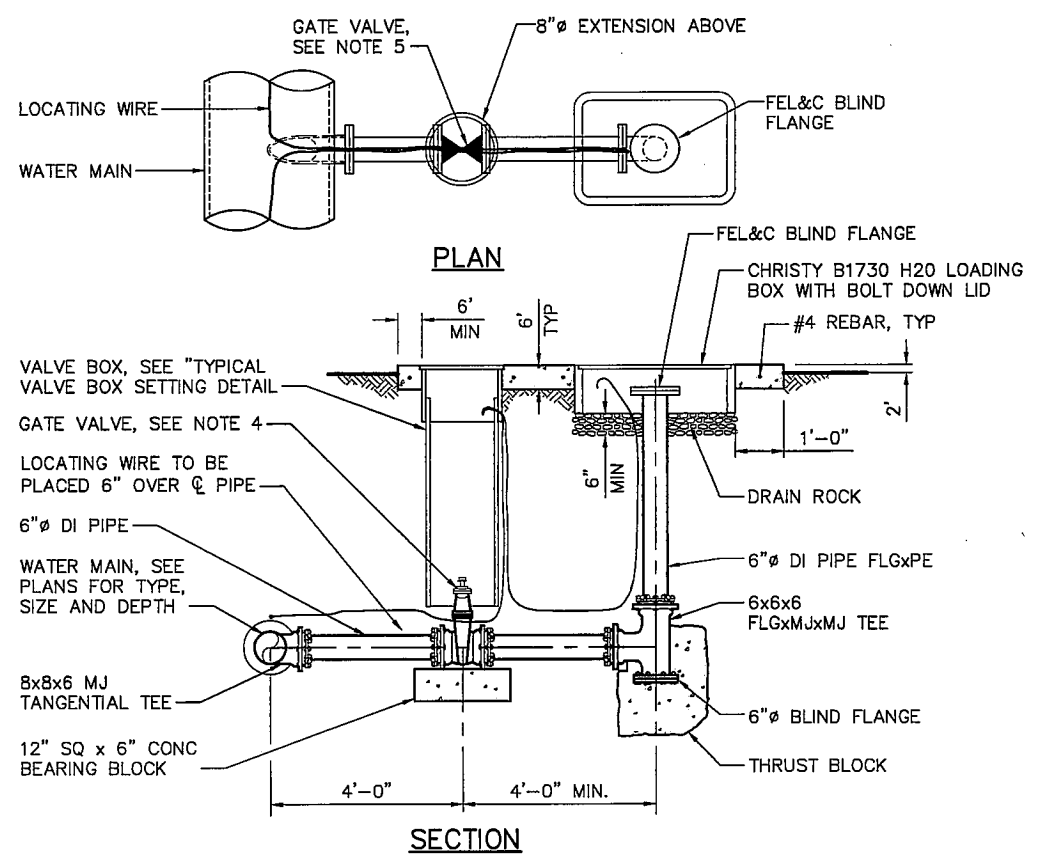
DESIGN BY	DCP
DRAWN BY	DCP
CHECKED BY	HEM
DATE	July 9, 2012
SCALE	AS SHOWN
JOB NO.	11009

**DRAWING NUMBER**  
**W-11**  
**SHEET NUMBER**  
 67 OF 114

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET WD-1.DWG



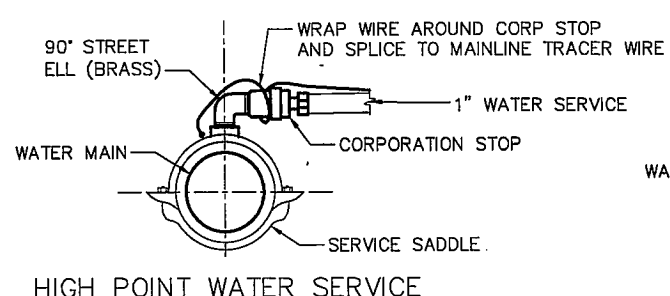
**COMBINATION AIR VALVE (CAV) DETAIL**  
NO SCALE



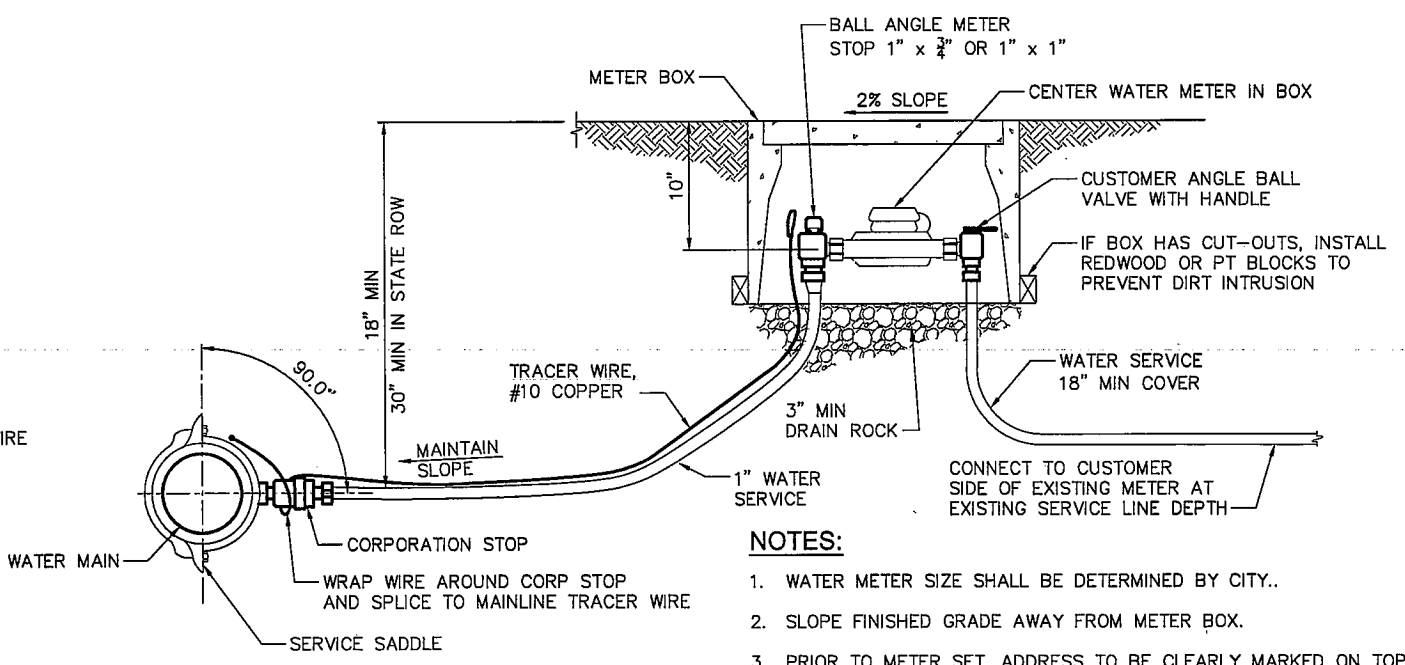
**BLOW-OFF VALVE (BOV) DETAIL**  
NO SCALE

**NOTE:**

1. PIPE SPOOL LENGTH MAY BE INCREASED DUE TO FIELD CONDITIONS W/ ENGINEER'S APPROVAL.
2. OMIT FLANGES ON PIPES LESS THAN 3" AND USE THREAD.
3. BLOW OFF RISER TO BE FIELD LOCATED PER THE ENGINEER.
4. BURIED GATE VALVES SHALL HAVE NON-RISING STEM AND BE RESILIENT SEAT VALVES WITH 2" SQUARE OPERATING NUT. VALVES SHALL HAVE MECHANICAL JOINT HUBS OR FLANGED ENDS AS REQUIRED BY THE NATURE OF THE INSTALLATION AND SHALL CONFORM TO AWWA C515. VALVES SHALL BE MEULLER, CLOW, M&H, OR EQUAL. VALVE BODIES SHALL BE FUSION EPOXY LINED AND COATED IN ACCORDANCE WITH CONTRACT DOCUMENTS.



**HIGH POINT WATER SERVICE**



**SERVICE METER DETAIL**  
NO SCALE

**NOTES:**

1. WATER METER SIZE SHALL BE DETERMINED BY CITY..
2. SLOPE FINISHED GRADE AWAY FROM METER BOX.
3. PRIOR TO METER SET, ADDRESS TO BE CLEARLY MARKED ON TOPSIDE LID OF METER BOX WITH PERMANENT MARKER BY CONTRACTOR.

FINAL SUBMITTAL - NOT FOR CONSTRUCTION

NO.	REVISION	DCP	DATE	APP

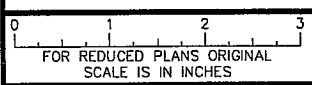


CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 464-5506 phone  
 (707) 465-4405 fax

FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 WATERLINE DETAILS

DESIGN BY	DCP
DRAWN BY	DCP
CHECKED BY	HEM
DATE	July 9, 2012
SCALE	AS SHOWN
JOB NO.	11009

DRAWING NUMBER  
**WD-1**  
SHEET NUMBER



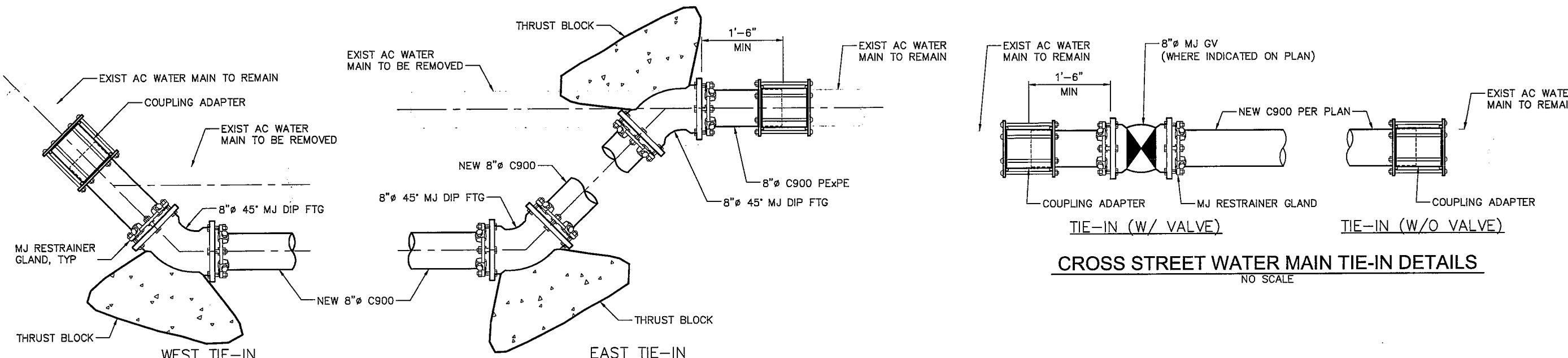
DESIGN OVERSIGHT

SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

QUALITY CONTROL APPROVAL

Q.C. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET - 400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET WD-1.DWG



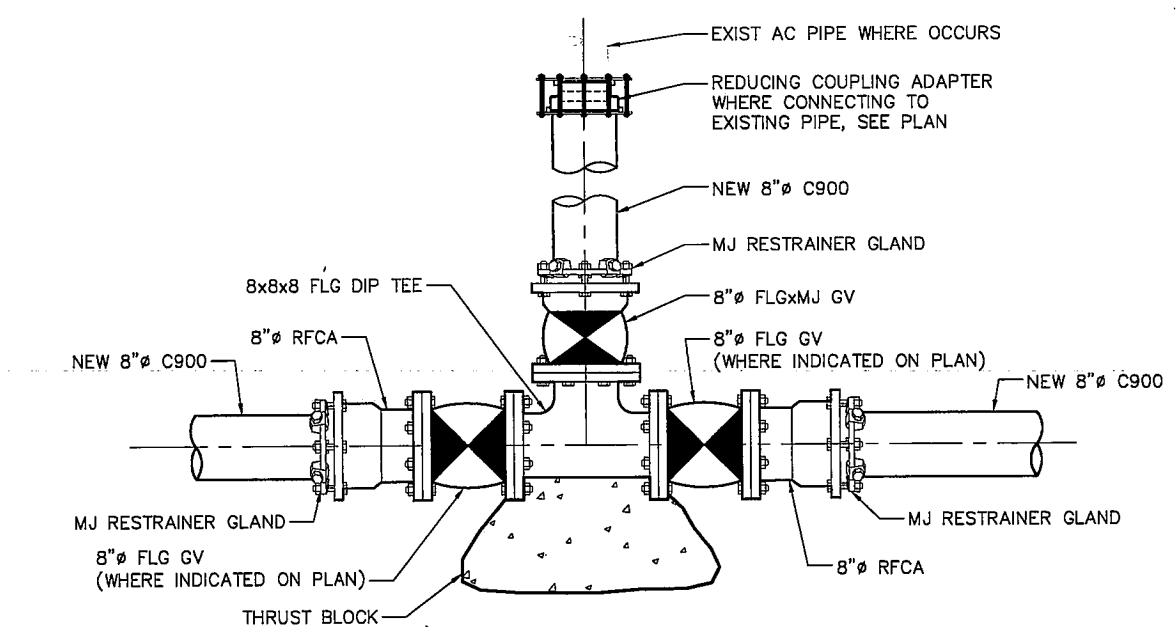
**CROSS STREET WATER MAIN TIE-IN DETAILS**  
NO SCALE



**FRONT STREET WATER MAIN TIE-IN DETAILS**  
NO SCALE

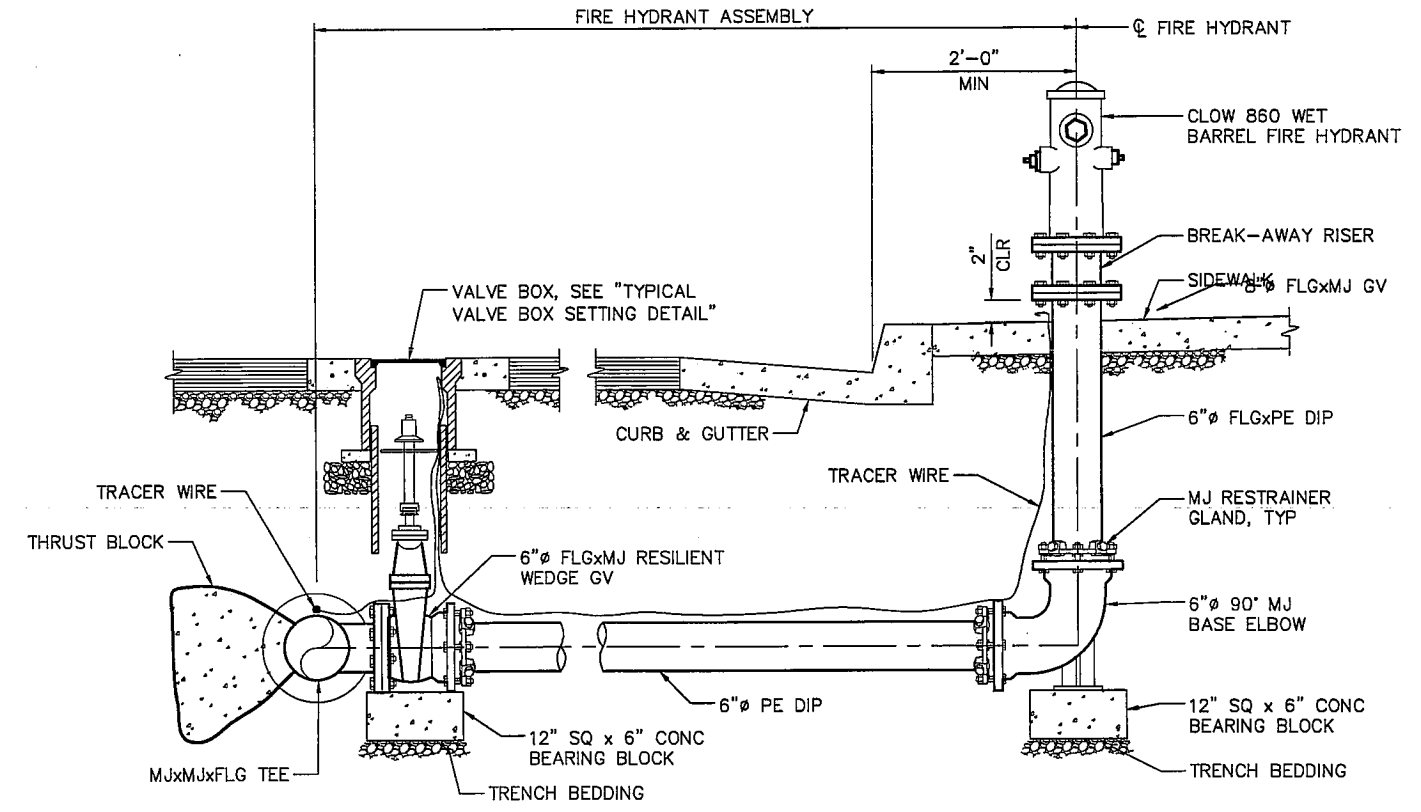
**NOTES:**

1. PLACE TYPE DB TWO-WAY BLUE REFLECTOR 1'-0" FROM ROADWAY CENTERLINE ADJACENT TO HYDRANT.
2. ALL CONCRETE SHALL BE CLASS I (6 SACK MIX).
3. WHERE NO SIDEWALK EXISTS, PLACE A 48"x 48"x 6" THICK CONCRETE PAD CENTERED ON HYDRANT BARREL AT THE SAME RELATIVE ELEVATION AS THE SIDEWALK.
4. INSTALL HYDRANTS 60" CLEAR OF DRIVEWAY FLARES.
5. ALL FIRE HYDRANT PIPING FROM MAIN LINE TEE TO HYDRANT SHALL BE RESTRAINED JOINT DUCTILE IRON.
6. TRIM TRACER WIRE 2" ABOVE FINISHED GRADE.



**NOTE:**  
TEE CONDITION SHOWN, CROSS CONDITION  
SIMILAR, FOR VALVE LOCATIONS, SEE PLAN

**WATER MAIN INTERSECTION CONNECTION**  
NO SCALE



**FIRE HYDRANT DETAIL**  
NO SCALE

**FINAL SUBMITTAL - NOT FOR CONSTRUCTION**

NO.	REVISION	DCPI	DATE	APP



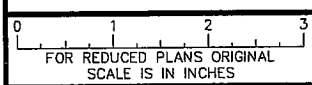
CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 464-9506 phone  
 (707) 465-4405 fax

**FRONT STREET REVITALIZATION**  
**(A STREET TO HIGHWAY 101 SOUTH)**  
**WATERLINE DETAILS**

DESIGN BY DCP
DRAWN BY DCP
CHECKED BY HEM
DATE July 9, 2012
SCALE AS SHOWN
JOB NO. 11009
DRAWING NUMBER

**WD-2**

SHEET NUMBER

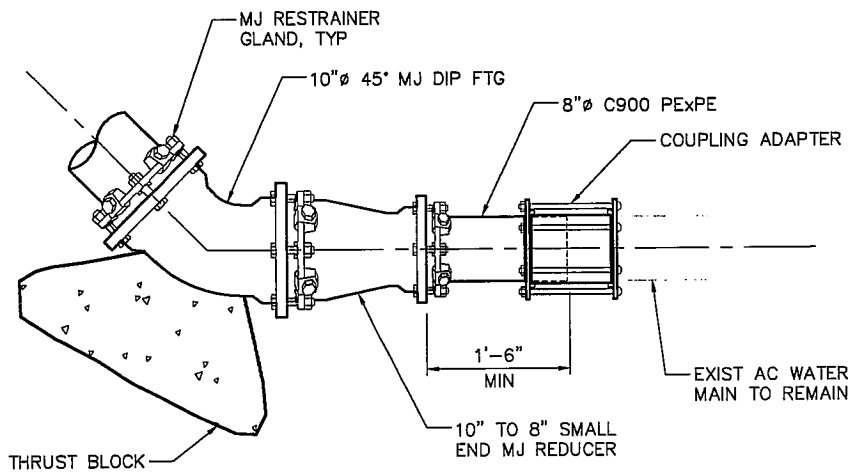


DESIGN OVERSIGHT		QUALITY CONTROL APPROVAL	
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE

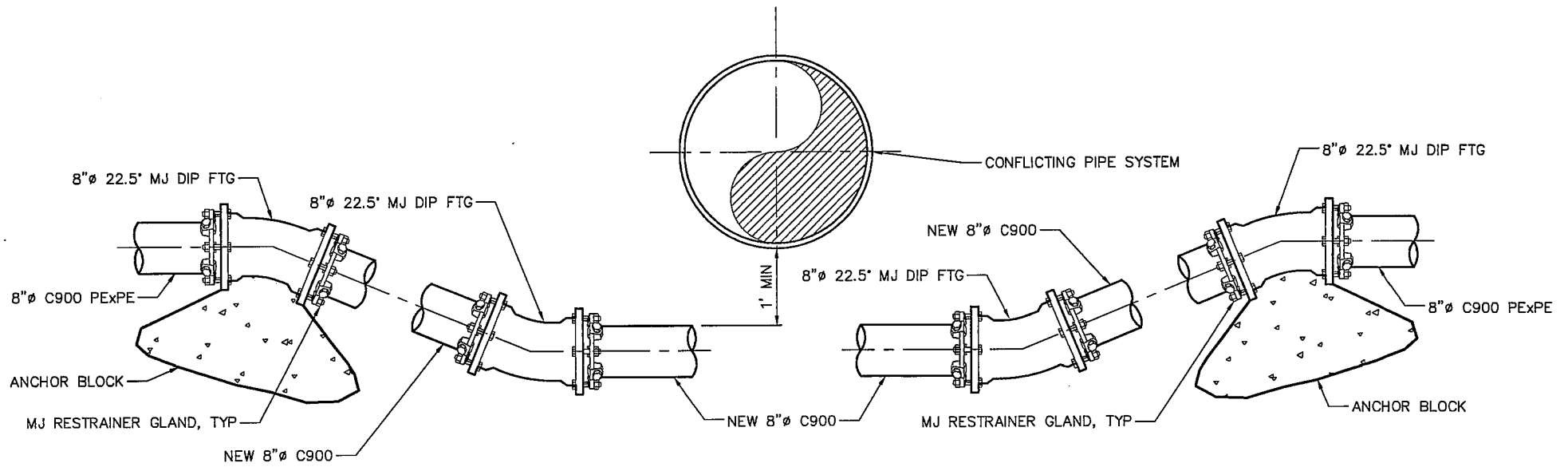
QUALITY CONTROL APPROVAL		QUALITY CONTROL APPROVAL	
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE

11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670

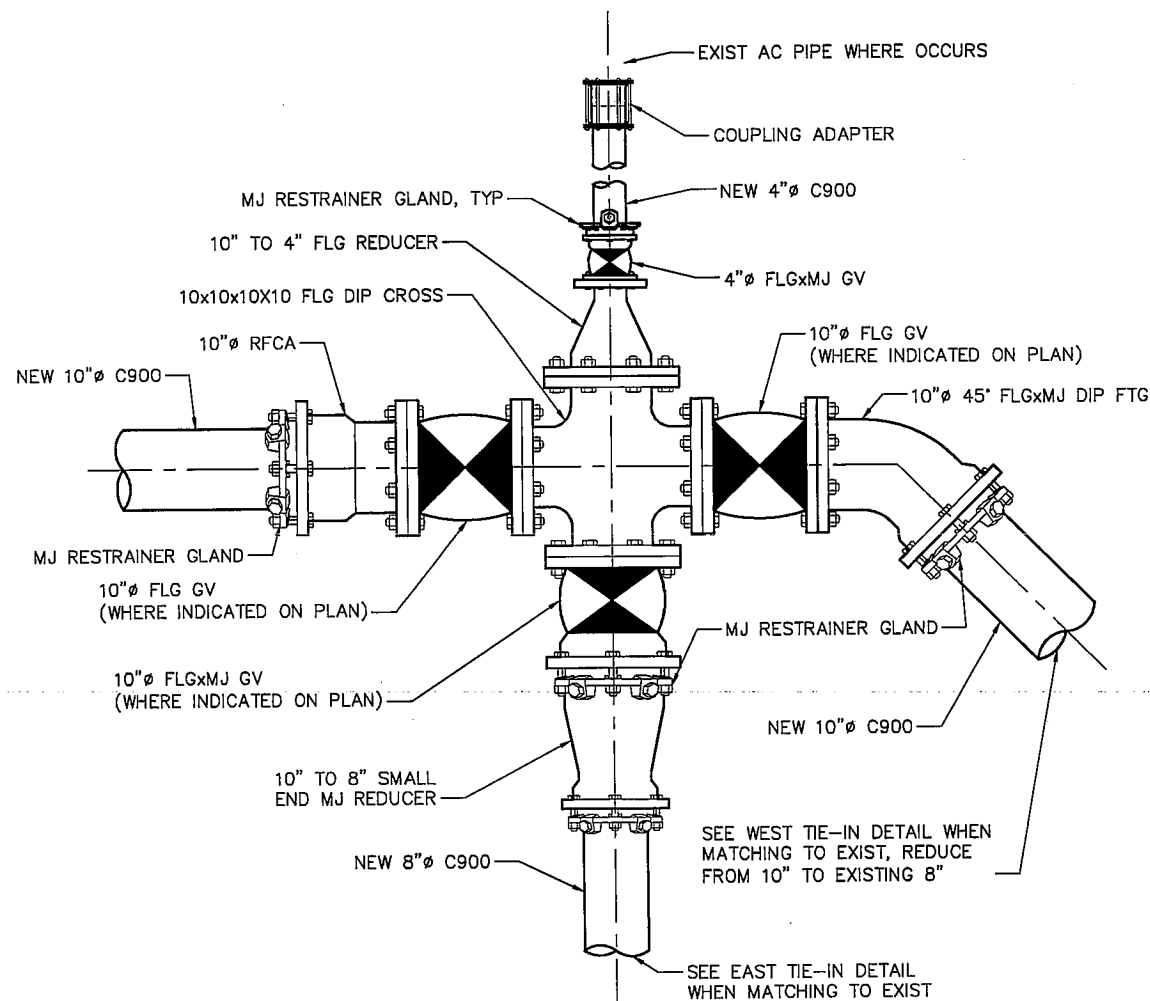
PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET WD-1.DWG



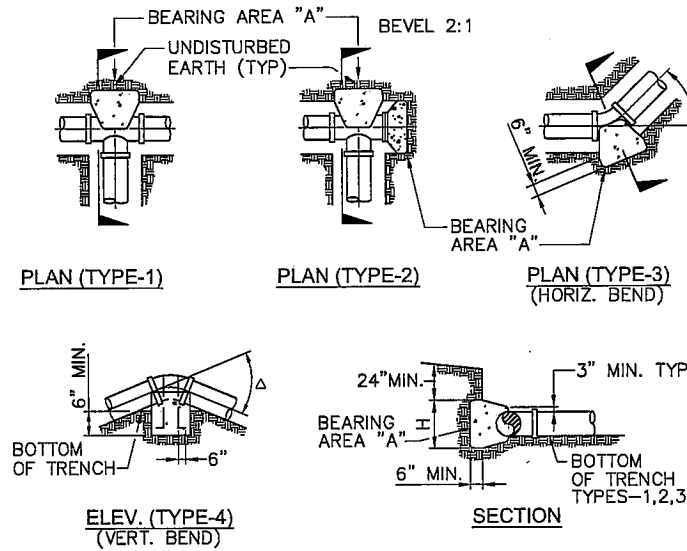
**3RD STREET NORTH WATER MAIN TIE-IN DETAILS**  
NO SCALE



**FRONT STREET WATER MAIN CONFLICT DETAILS**  
NO SCALE



**3RD STREET WATER MAIN INTERSECTION CONNECTION**  
NO SCALE



- NOTES:**
- THRUST BLOCKS ARE ONLY ALLOWED AT LOCATIONS SPECIFIED BY PIPE SERVICE OR AS APPROVED BY THE ENGINEER. PIPE TEST PRESSURE LESS THAN OR EQUAL TO 10 psi DO NOT REQUIRE RESTRAINT, TEST PRESSURE GREATER THAN 10 psi REQUIRE RESTRAINT.
  - BLOCKS TO BE POURED AGAINST UNDISTURBED SOIL WITH BEARING CAPACITY OF 2000psf OR GREATER.
  - JOINTS AND FACE OF PLUGS SHALL BE KEPT CLEAN OF CONCRETE.

**THRUST BLOCKS SCHEDULE**

PIPE DIA. (in.)	TEST PEASURE (P.S.I.)	THRUST BLOCK BEARING AREA "A" (S.F.)				ANCHOR BLOCK VOL. OF CONCRETE (C.Y.)	
		Δ 90°	Δ 45°	Δ 22.5°	Δ 11.25°	TEE OR BULKHEAD	
8"	200	7.1	3.8	2.0	1.0	5.0	2.5
10"	200	11.1	6.0	3.1	1.5	7.9	3.9
12"	200	16.0	8.7	4.4	2.2	11.3	5.6
14"	200	21.8	11.8	6.0	3.0	15.4	7.6
16"	200	28.4	15.4	7.8	3.9	20.1	9.9
18"	200	36.0	19.5	9.9	5.0	25.4	12.6

REBAR SIZES		
PIPE SIZE	Δ	REBAR
6"-10"	0-90°	#5
12"-20"	0-225°	#5
24"	0-225°	#6
12"-20"	45°	#7
12"-16"	90°	#8

**NOTE:**  
 COAT REBAR WITH TWO COATS OF KOPPERS 505, TNEMEC 46-450, OR EQUAL, 15 MILS EA. COAT

**THRUST BLOCKS**  
NO SCALE

**FINAL SUBMITTAL - NOT FOR CONSTRUCTION**

NO.	REVISION	DATE	APP.



CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 464-9506 phone  
 (707) 465-4405 fax

**FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)**

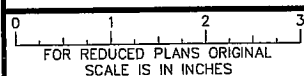
DESIGN BY DCP  
 DRAWN BY DCP  
 CHECKED BY HEM  
 DATE July 9, 2012  
 SCALE AS SHOWN  
 JOB NO. 11009

DRAWING NUMBER

**WD-3**

SHEET NUMBER

70 of 114

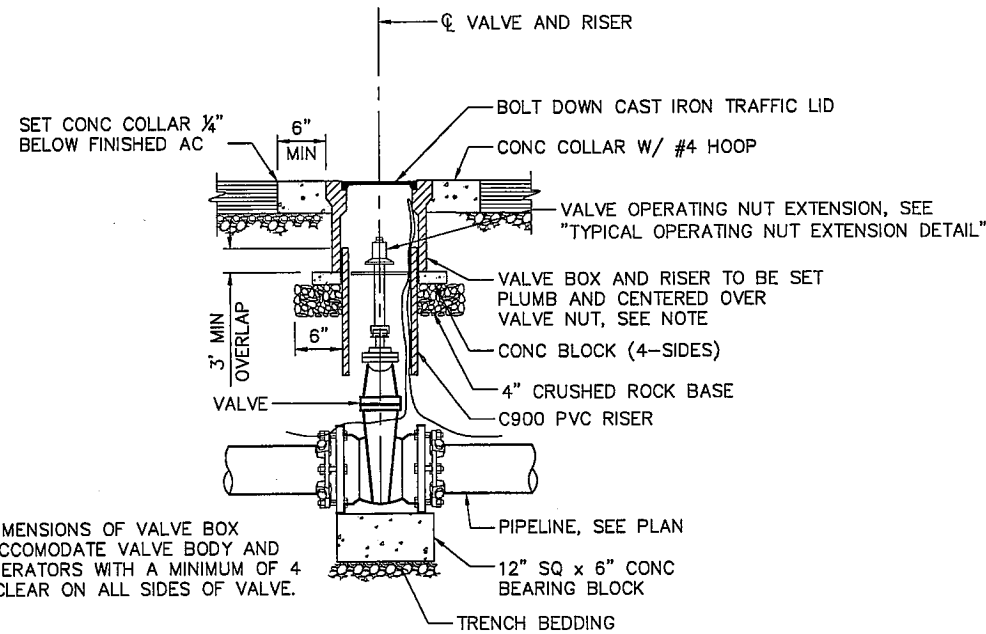


DESIGN OVERSIGHT  
 SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

QUALITY CONTROL APPROVAL  
 Q.C. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**dh drake haglan AND ASSOCIATES**  
 11050 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET WD-1.DWG



**NOTE:**  
 INSIDE DIMENSIONS OF VALVE BOX SHALL ACCOMMODATE VALVE BODY AND GEAR OPERATORS WITH A MINIMUM OF 4 INCHES CLEAR ON ALL SIDES OF VALVE.

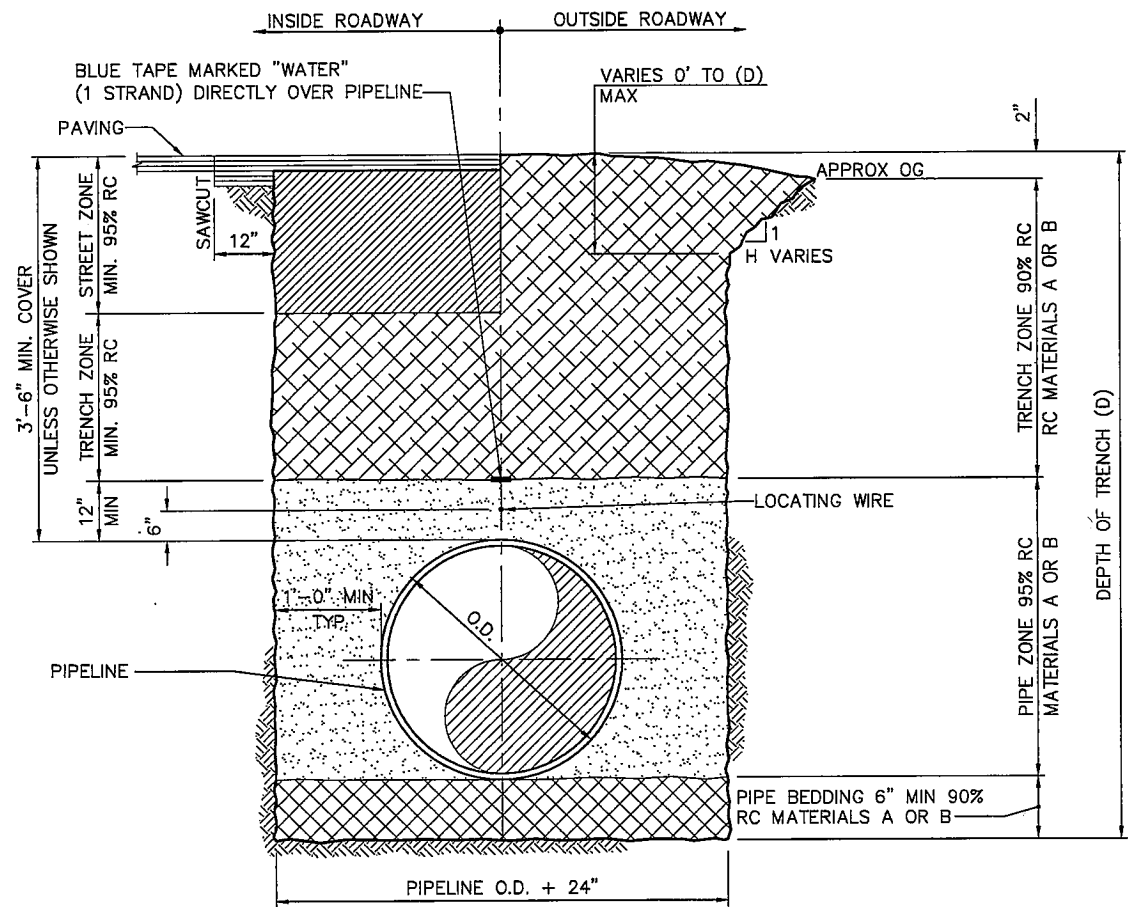
**TYPICAL VALVE BOX SETTING DETAIL**  
 NO SCALE

MINIMUM STEEL CASING WALL THICKNESS CHART		
MINIMUM THICKNESS		DIAMETER OF CASING PIPE
.2500"	1/4"	12" OR LESS
.3125"	5/16"	OVER 12"-18"
.3750"	3/8"	OVER 18"-22"
.4375"	7/16"	OVER 22"-28"
.5000"	1/2"	OVER 28"-34"
.5625"	9/16"	OVER 34"-42"
.6250"	5/8"	OVER 42"-48"

SEE NOTE 1

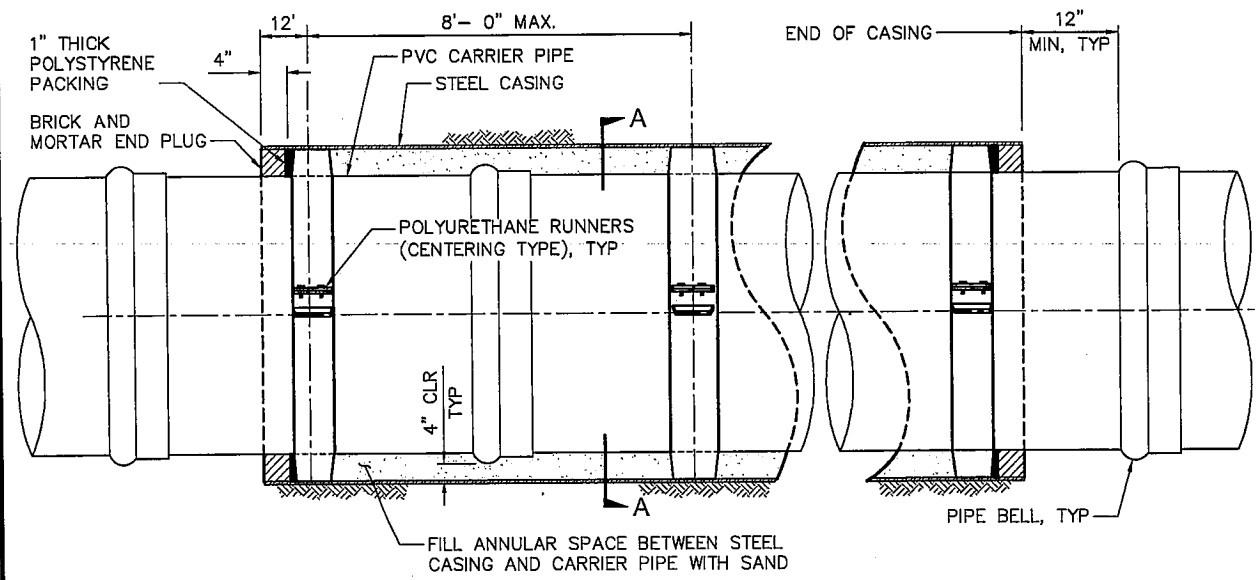
**NOTES:**

- CASING WALL THICKNESS CHART IS ONLY FOR SMOOTH STEEL CASING PIPES WITH A MINIMUM YIELD STRENGTH OF 35,000 PSI. THESE THICKNESSES MUST BE DESIGNED BY THE TRENCHLESS PIPE INSTALLATION CONTRACTOR TO ACCOUNT FOR ALL POTENTIAL JACKING FORCES.
- FOR ADDITIONAL INFORMATION, SEE SPECIFICATIONS.
- STEEL CASING JOINTS SHALL BE WELDED IN ACCORDANCE WITH SPECIFICATIONS.
- CASING INSULATION SPACING SHALL BE IN ACCORDANCE WITH INSULATING MANUFACTURER'S RECOMMENDATIONS.
- STEEL CASING SHALL BE ELECTRICALLY DISCONTINUOUS FROM CARRIER PIPE.
- ANNULAR CLEARANCE BETWEEN CASING AND CARRIER PIPE SHALL BE 4" MIN.
- BACKFILL GROUTING SHALL BE IN ACCORDANCE WITH SPECIFICATION

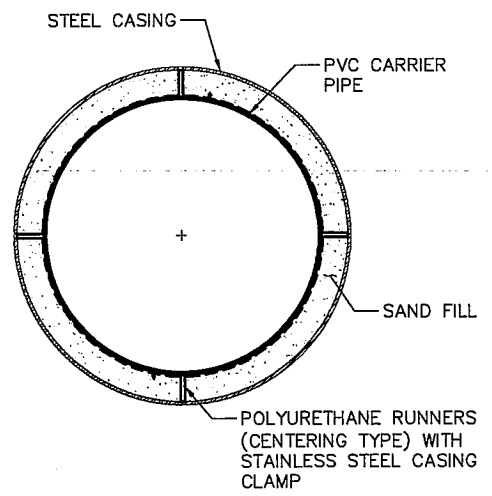


**BACKFILL MATERIALS:**

- IMPORTED WASHED SAND FREE OF CLAY OR ORGANIC MATERIAL. MATERIAL SHALL HAVE A SAND EQUIVALENT NOT LESS THAN 28 PER ASTM D2419.
- CEMENT SLURRY BACKFILL CONSISTING OF TYPE I OR II PORTLAND CEMENT, IMPORTED SAND, AND SUFFICIENT WATER FOR WORKABILITY. THE MIX SHALL PRODUCE A MINIMUM AND MAXIMUM 28-DAY STRENGTH OF 50 AND 100 PSI, RESPECTIVELY, SEE NOTE 8.
- EXCAVATED NATIVE MATERIAL LESS THAN 10 FEET DEEP, SCREENED TO A 3-INCH MAXIMUM DIMENSION. MATERIAL SHALL BE MIXED OR BLENDED WITH FINER GRAINED MATERIAL AS TO AVOID NESTED COBBLES. MATERIAL SHALL BE FREE OF POTENTIALLY EXPANSIVE FAT CLAY SOILS AND APPROVED FOR USE AS A TRENCH ZONE BACKFILL BY THE CITY PRIOR TO INCORPORATING INTO THE WORK.

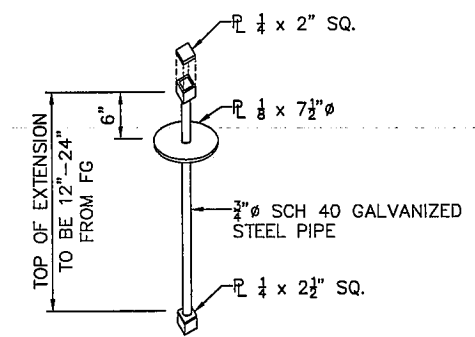


**TYPICAL PIPELINE CASING DETAIL**  
 NO SCALE



**CASING SECTION A-A**  
 NO SCALE

**TYPICAL TRENCH DETAIL**  
 NO SCALE



**TYPICAL OPERATING NUT EXTENSION DETAIL**  
 NO SCALE

**FINAL SUBMITTAL - NOT FOR CONSTRUCTION**

NO.	REVISION	DCP	DATE	APP

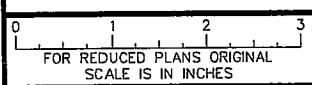


CITY OF CRESCENT CITY  
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 Crescent City, CA 95531  
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 (707) 466-4405 fax

**FRONT STREET REVITALIZATION**  
**(A STREET TO HIGHWAY 101 SOUTH)**  
**TYPICAL WATERLINE DETAILS**

DESIGN BY	DCP
DRAWN BY	DCP
CHECKED BY	HEM
DATE	July 9, 2012
SCALE	AS SHOWN
JOB NO.	11009

DRAWING NUMBER  
**WD-4**  
 SHEET NUMBER  
 71 OF 114



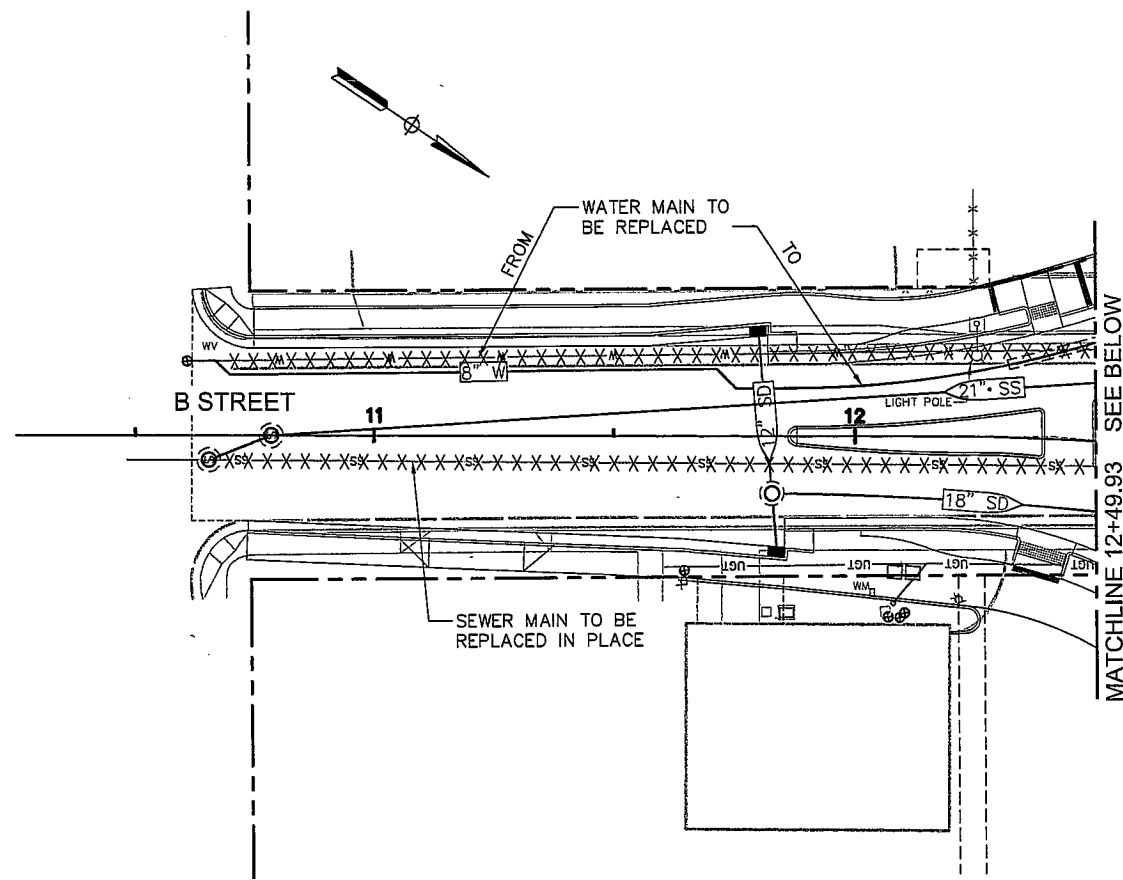
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 SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

QUALITY CONTROL APPROVAL  
 Q.C. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**dh drake haglan AND ASSOCIATES**  
 11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95570



PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET U-1\_U-5.DWG

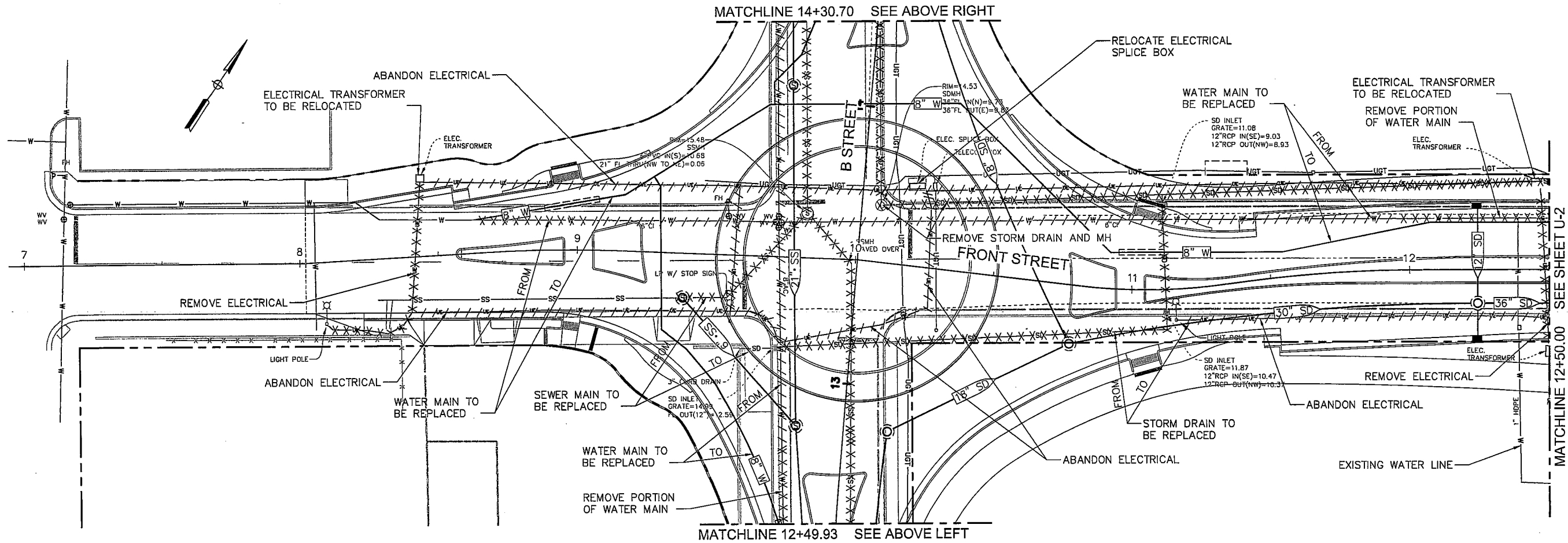
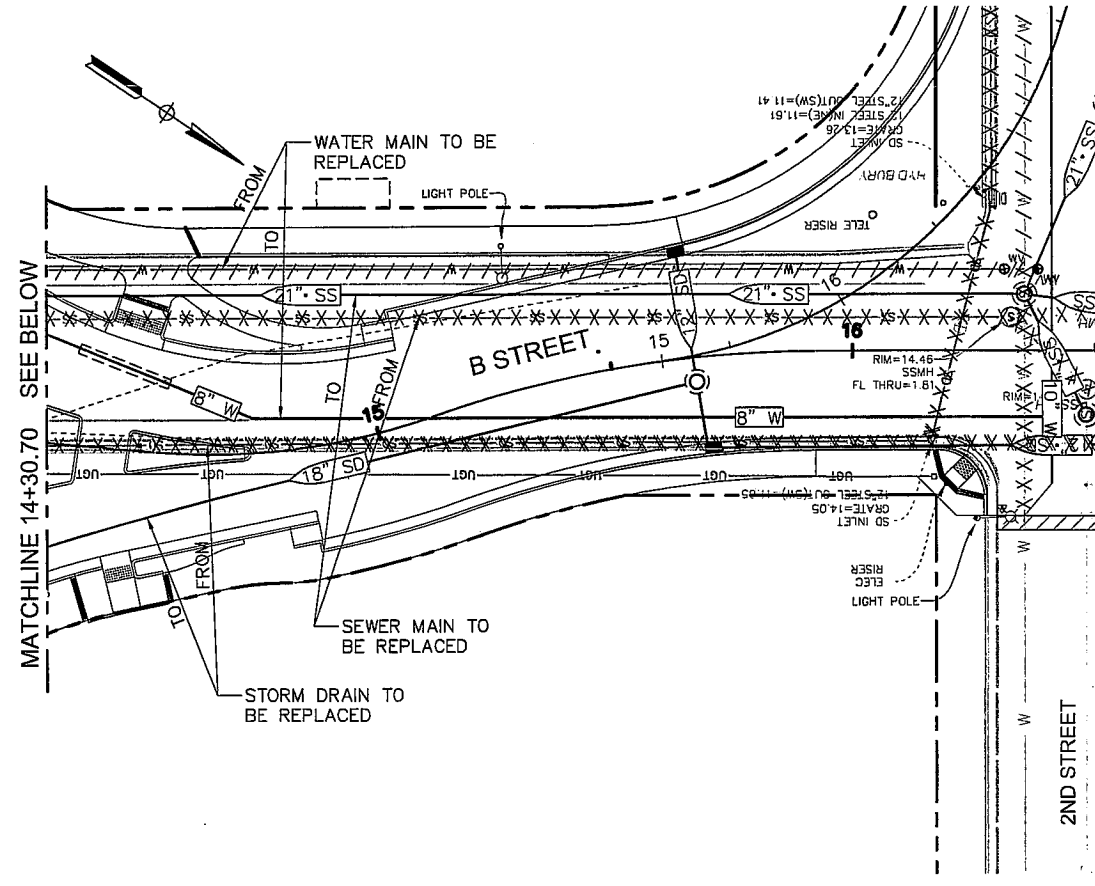


- ABBREVIATIONS**
- G - GAS
  - F/O - FIBER OPTIC
  - OHE - OVERHEAD ELECTRIC
  - SD - STORM DRAIN
  - SS - SANITARY SEWER
  - UE - UNDERGROUND ELECTRIC
  - UGT - UNDERGROUND TELEPHONE
  - W - WATER

- LEGEND**
- - - - - INDICATES ABANDON UTILITY
  - X X X X X INDICATES REMOVE UTILITY

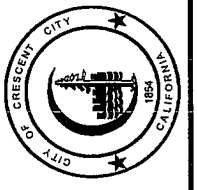
- NOTES**
- FOR WATER, SEWER AND STORM DRAIN FACILITIES DESIGN, SEE WATER, PLAN AND PROFILES, AND DRAINAGE SHEETS.
  - COORDINATE FINAL DESIGN OF TELECOMMUNICATIONS, POWER AND GAS W/ UTILITY AGENCIES.

**SCALE**  
 HORIZ: 1" = 20'



**FINAL SUBMITTAL - NOT FOR CONSTRUCTION**

NO.	REVISION	DATE	APP.



CITY OF CRESCENT CITY  
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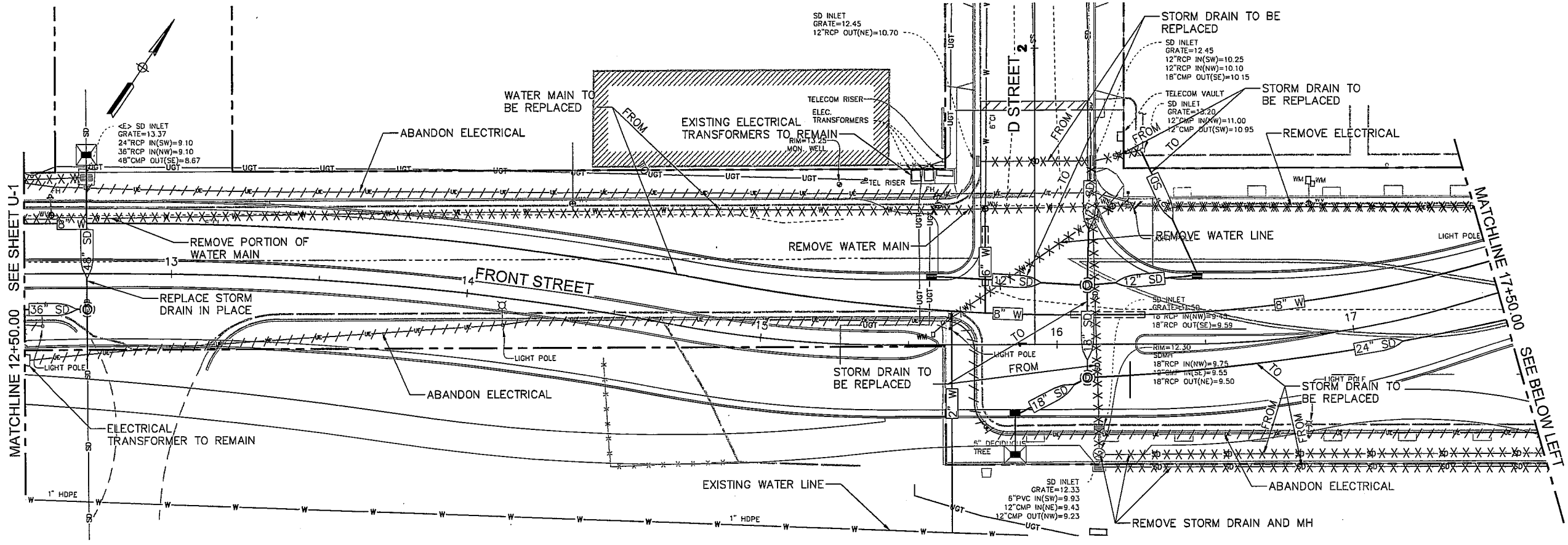
**FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 UTILITY IMPACT PLAN  
 STA 7+00.00 TO STA 12+50.00**



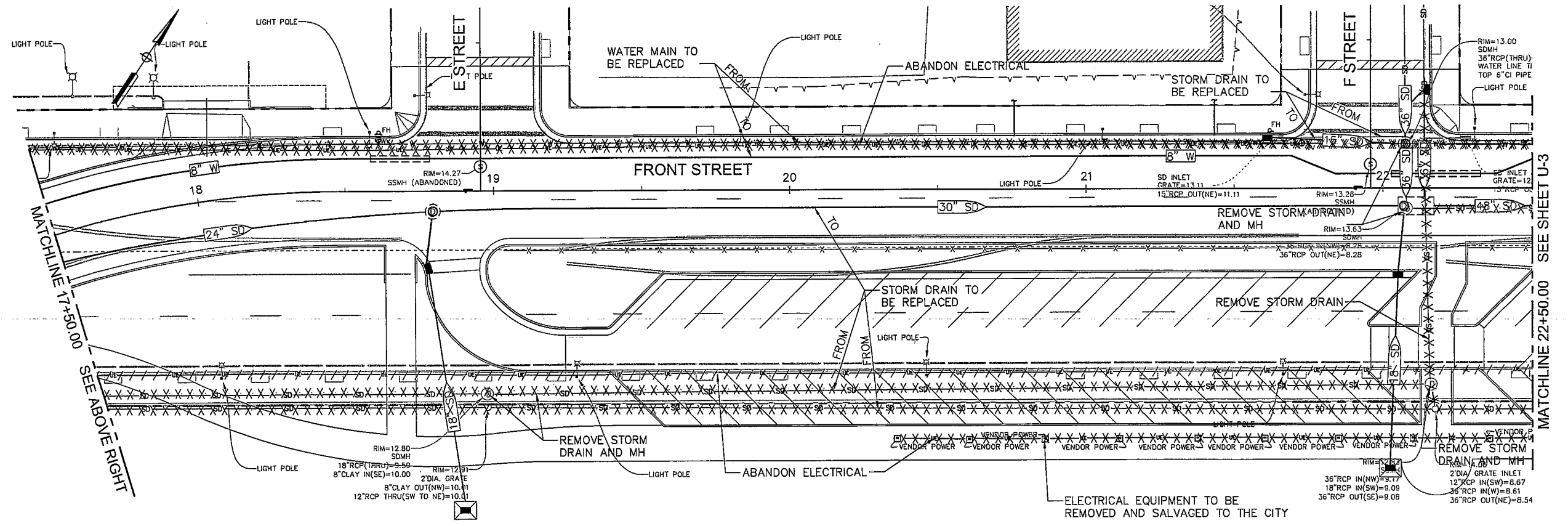
DESIGN BY	DCP
DRAWN BY	DCP
CHECKED BY	HEM
DATE	July 9, 2012
SCALE	AS SHOWN
JOB NO.	11009
DRAWING NUMBER	U-1
SHEET NUMBER	72 of 114

DESIGN OVERSIGHT				QUALITY CONTROL APPROVAL			
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE	Q.C. REVIEW BY	R.C.E. NUMBER	SIGNATURE	DATE

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET U-1\_U-5.DWG



SCALE  
 HORIZ: 1" = 20'  
 VERT: 1" = 5'



0 1 2 3  
 FOR REDUCED PLANS ORIGINAL  
 SCALE IS IN INCHES

DESIGN OVERSIGHT  
 SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

QUALITY CONTROL APPROVAL  
 Q.C. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**dh drake haglan AND ASSOCIATES**  
 11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670

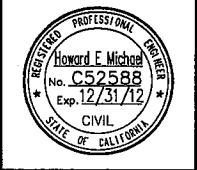
FINAL SUBMITTAL - NOT FOR CONSTRUCTION

NO.	REVISION	DATE	APP.



CITY OF CRESCENT CITY  
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 Crescent City, CA 95531  
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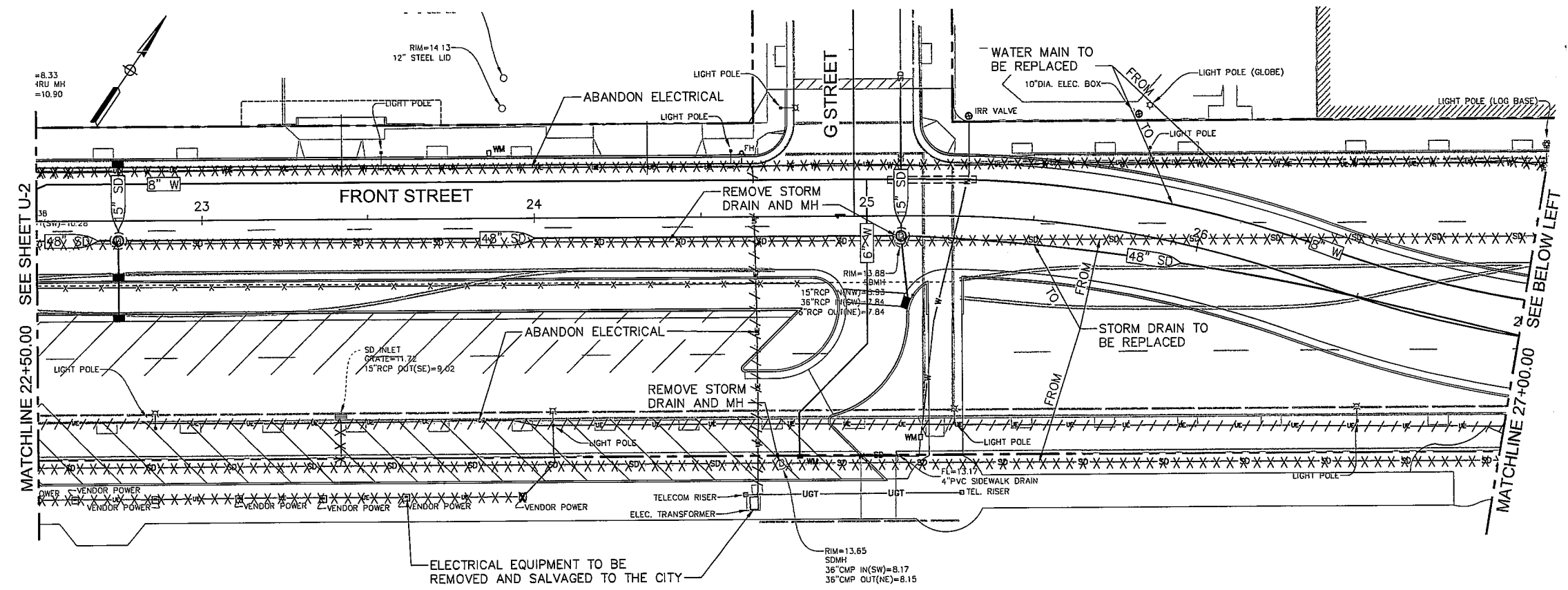
FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 UTILITY IMPACT PLAN  
 STA 12+50.00 TO STA 22+50.00



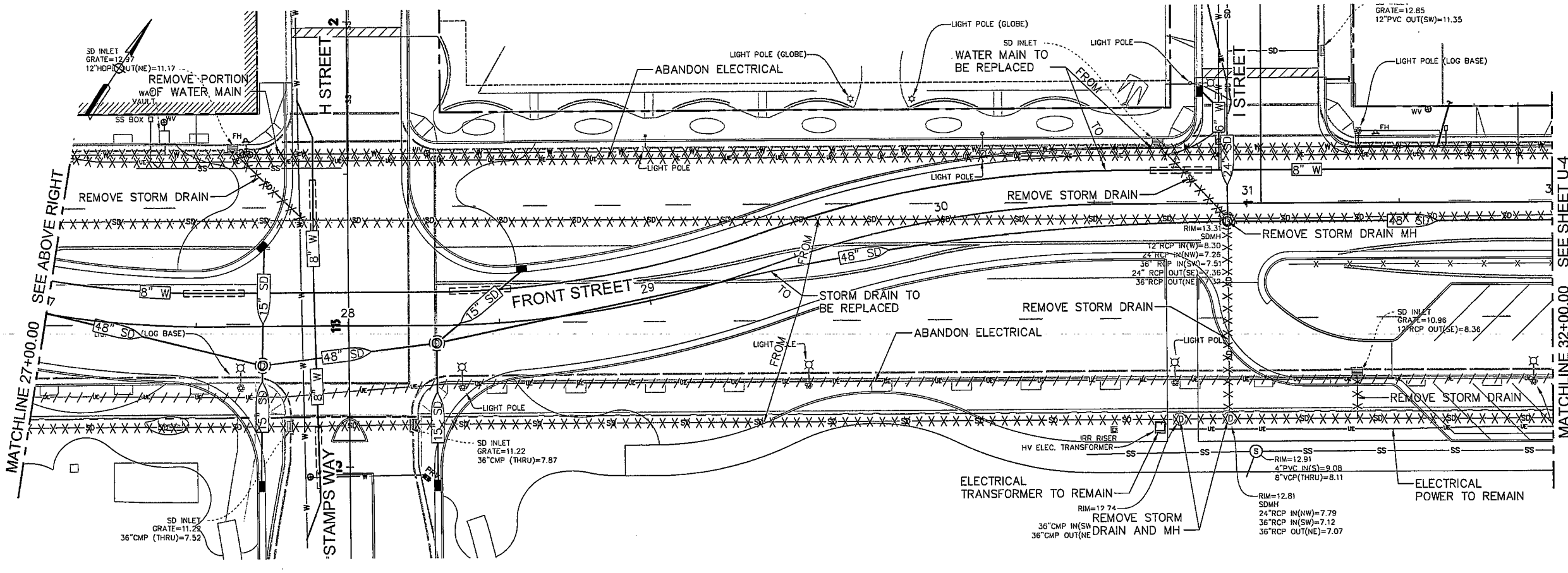
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 CHECKED BY HEM  
 DATE July 9, 2012  
 SCALE AS SHOWN  
 JOB NO. 11009  
 DRAWING NUMBER  
**U-2**

SHEET NUMBER  
 73 OF 114

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET U-1\_U-5.DWG



**SCALE**  
 HORIZ: 1" = 20'  
 VERT: 1" = 5'



FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

DESIGN OVERSIGHT  
 SUPERVISION BY: \_\_\_\_\_ R.C.E. NUMBER: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

QUALITY CONTROL APPROVAL  
 Q.C. REVIEW BY: \_\_\_\_\_ R.C.E. NUMBER: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

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NO.	REVISION	DCP	DATE	APP.



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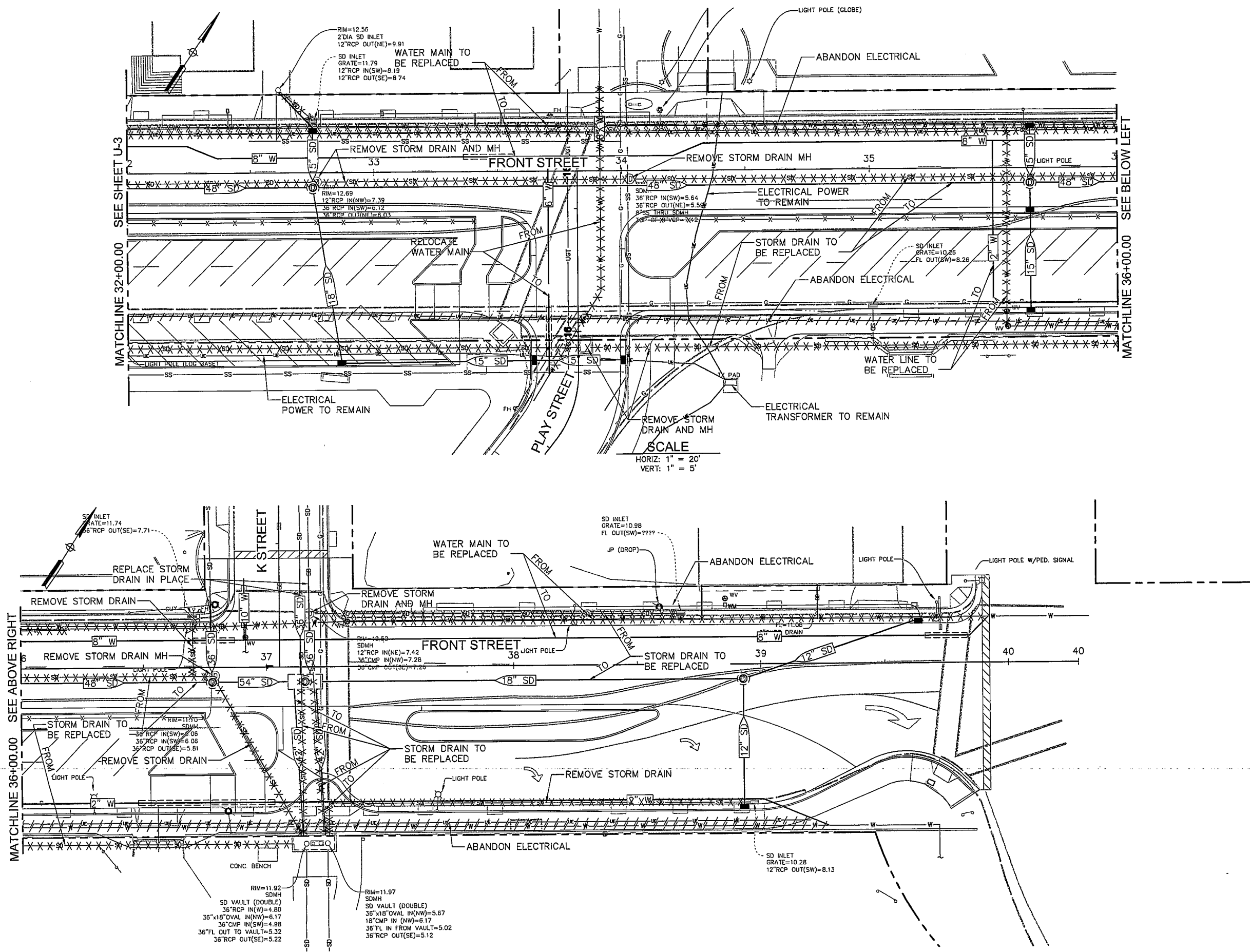
**FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 UTILITY IMPACT PLAN  
 STA 22+50.00 TO STA 32+00.00**



DESIGN BY DCP  
 DRAWN BY DCP  
 CHECKED BY HEM  
 DATE July 9, 2012  
 SCALE AS SHOWN  
 JOB NO. 11009

DRAWING NUMBER  
**U-3**  
 SHEET NUMBER  
 74 OF 114

Plot by: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET U-1\_U-5.DWG



SCALE  
 HORIZ: 1" = 20'  
 VERT: 1" = 5'

MATCHLINE 36+00.00 SEE ABOVE RIGHT

MATCHLINE 32+00.00 SEE SHEET U-3

MATCHLINE 36+00.00 SEE BELOW LEFT

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FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 UTILITY IMPACT PLAN  
 STA 32+00.00 TO STA 40+00.00



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DRAWN BY DCP
CHECKED BY HEM
DATE July 9, 2012
SCALE AS SHOWN
JOB NO. 11009
DRAWING NUMBER

U-4  
 SHEET NUMBER

DESIGN OVERSIGHT

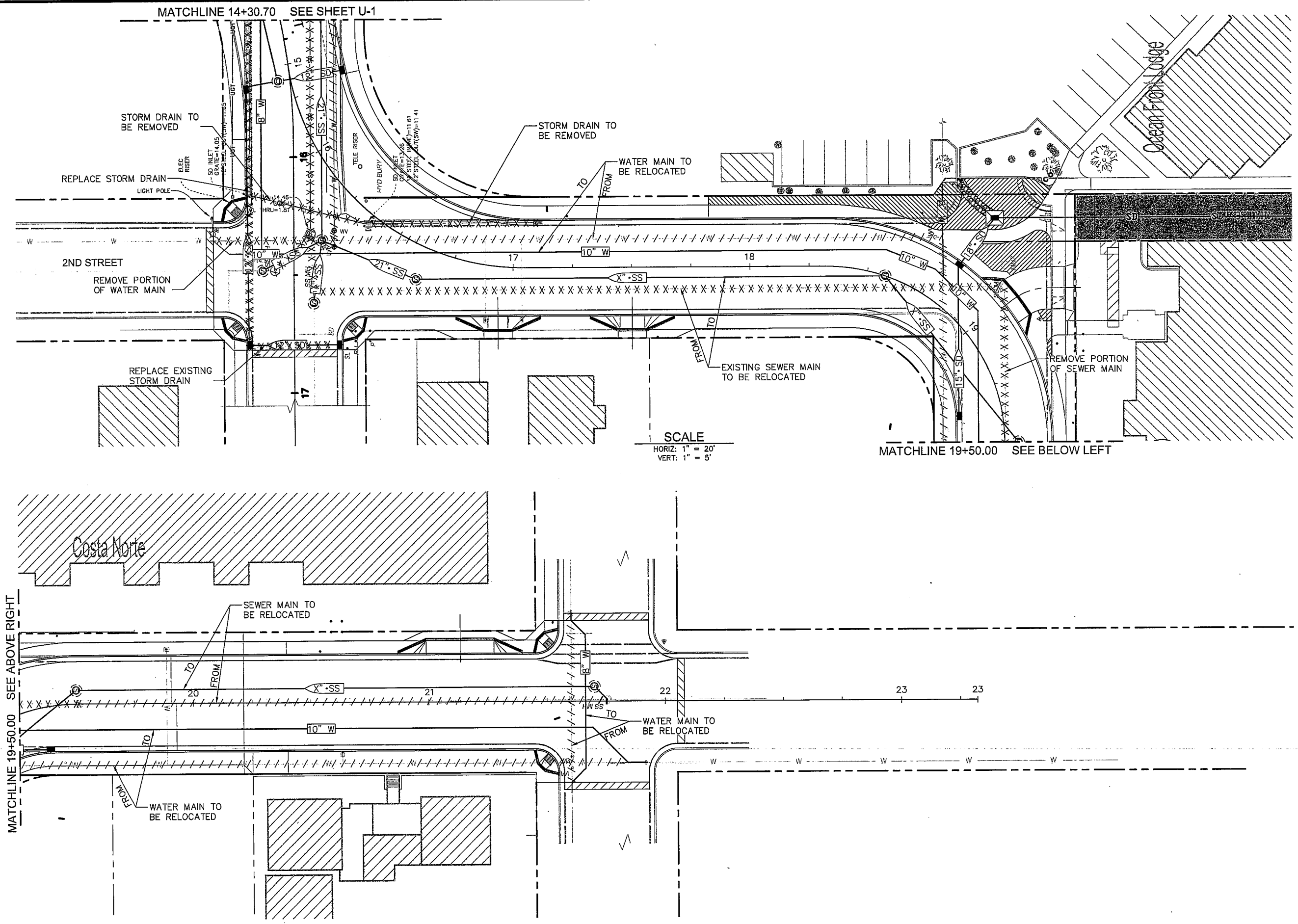
QUALITY CONTROL APPROVAL

SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE

Q.C. REVIEW BY	R.C.E. NUMBER	SIGNATURE	DATE

**dh drake haglan AND ASSOCIATES**  
 11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET U-1\_U-5.DWG



SCALE  
 HORIZ: 1" = 20'  
 VERT: 1" = 5'

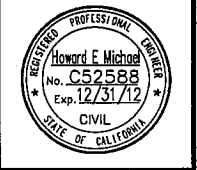
FINAL SUBMITTAL - NOT FOR CONSTRUCTION

NO.	REVISION	DATE	APP.



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 Crescent City, CA 95531  
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FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 UTILITY IMPACT PLAN  
 STA 14+30.70 TO STA 21+00.00



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DRAWN BY	DCP
CHECKED BY	HEM
DATE	July 9, 2012
SCALE	AS SHOWN
JOB NO.	11009

DRAWING NUMBER  
**U-5**

SHEET NUMBER  
 76 OF 114

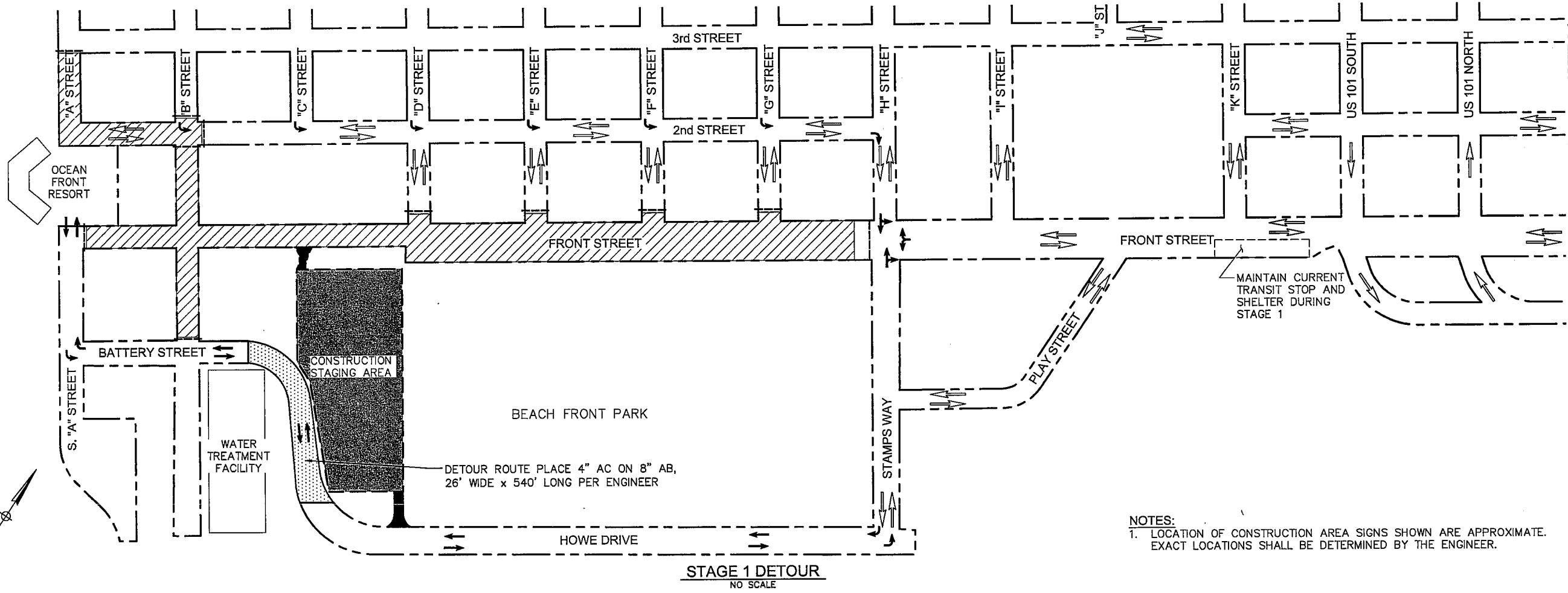
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SUPERVISION BY		Q.C. REVIEW BY	
R.C.E. NUMBER		R.C.E. NUMBER	
SIGNATURE		SIGNATURE	
DATE		DATE	

**dh drake haglan AND ASSOCIATES** 11050 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET CS-1.DWG

FINAL SUBMITTAL - NOT FOR CONSTRUCTION

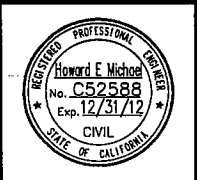
- LEGEND:**
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
  - PORTABLE SIGN
  - NORMAL DIRECTION OF TRAFFIC
  - DETOUR ROUTE(S)
  - TEMPORARY CONCRETE BARRIER (TYPE K)
  - STAGE 1 CONSTRUCTION / ROAD CLOSURE
  - STAGE 2 CONSTRUCTION / ROAD CLOSURE
  - STAGE 1 DETOUR ROUTE



NO.	REVISION	DCP	DATE	APP.

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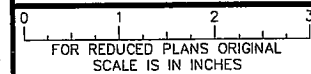
**FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 STAGE 1 CONSTRUCTION, DETOUR  
 AND CONSTRUCTION AREA SIGNS**



DESIGN BY DCP  
 DRAWN BY DCP  
 CHECKED BY HEM  
 DATE July 9, 2012  
 SCALE NO SCALE  
 JOB NO. 11009

DRAWING NUMBER  
**CS-1**

SHEET NUMBER  
 77 OF 114



DESIGN OVERSIGHT

SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

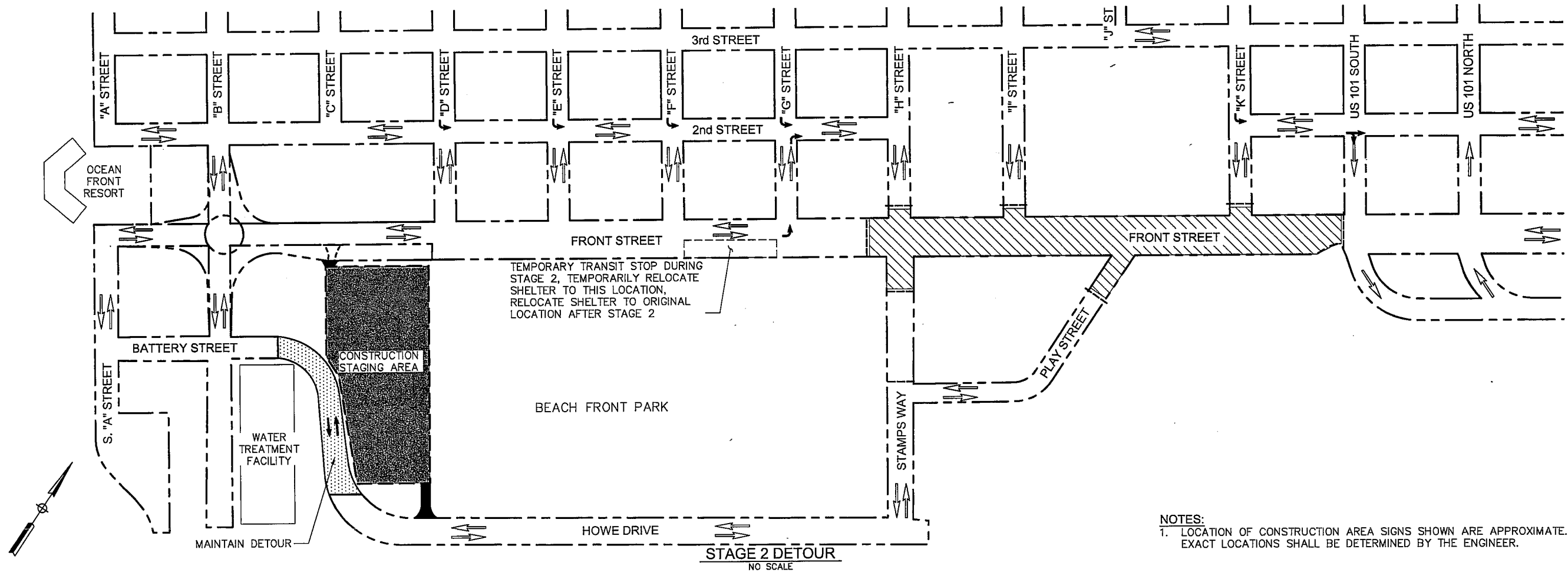
QUALITY CONTROL APPROVAL

Q.C. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**dh drake haglan AND ASSOCIATES** 11060 White Rock Road, Suite 200  
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PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET CS-1.DWG

- LEGEND:**
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
  - PORTABLE SIGN
  - NORMAL DIRECTION OF TRAFFIC
  - DETOUR ROUTE(S)
  - TEMPORARY CONCRETE BARRIER (TYPE K)
  - STAGE 1 CONSTRUCTION / ROAD CLOSURE
  - STAGE 2 CONSTRUCTION / ROAD CLOSURE
  - STAGE 1 DETOUR ROUTE



**NOTES:**  
 1. LOCATION OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATIONS SHALL BE DETERMINED BY THE ENGINEER.

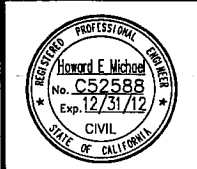
FINAL SUBMITTAL - NOT FOR CONSTRUCTION

NO.	REVISION	DCP	DATE	APP



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 Crescent City, CA 95531  
 (707) 464-9596 phone  
 (707) 465-4405 fax

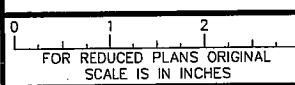
FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 STAGE 2 CONSTRUCTION, DETOUR  
 AND CONSTRUCTION AREA SIGNS



DESIGN BY DCP  
 DRAWN BY DCP  
 CHECKED BY HEM  
 DATE July 9, 2012  
 SCALE AS SHOWN  
 JOB NO. 11009

DRAWING NUMBER  
**CS-2**

SHEET NUMBER  
 78 OF 114



DESIGN OVERSIGHT

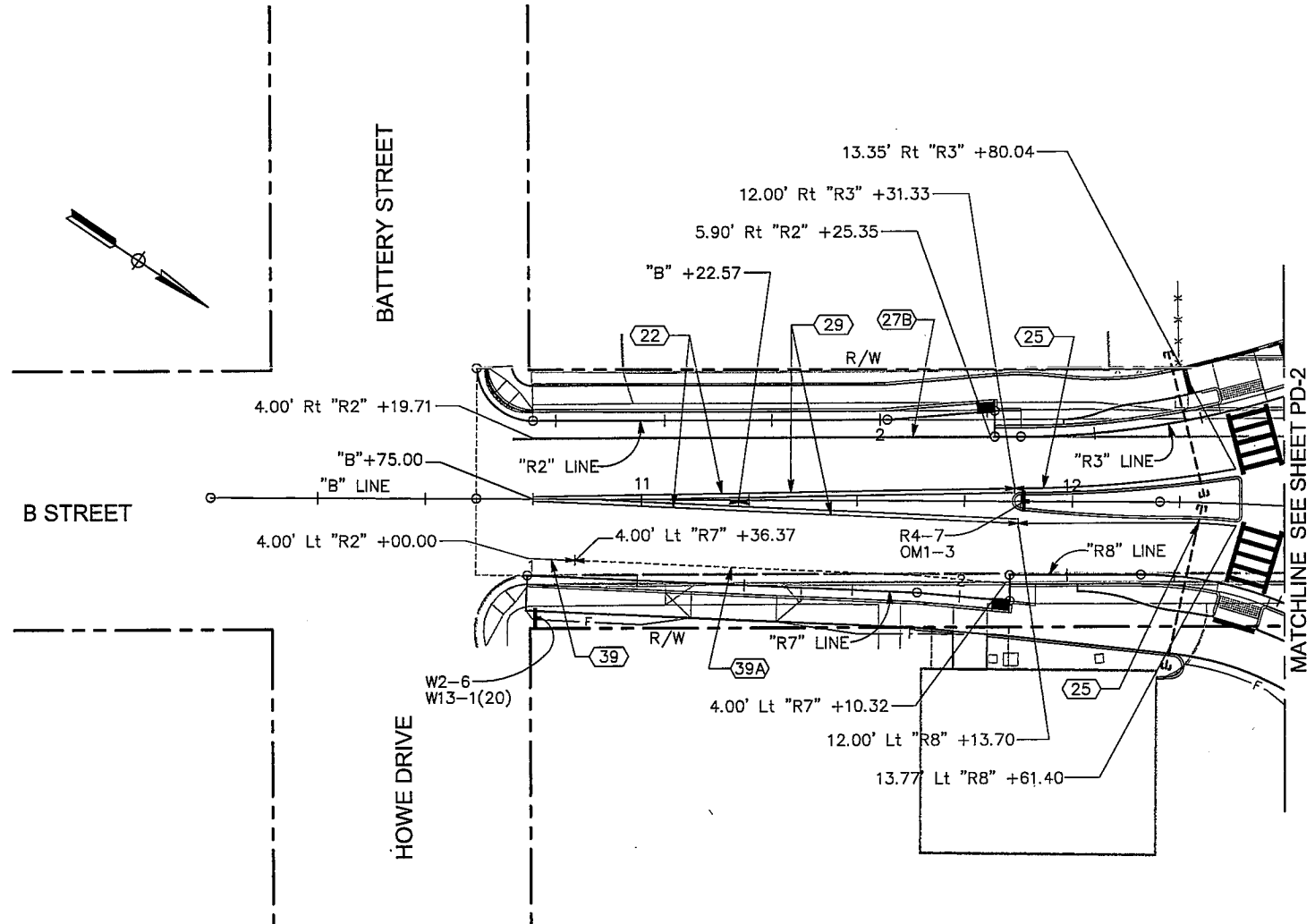
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QUALITY CONTROL APPROVAL

Q.C. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**dh drake haglan AND ASSOCIATES**  
 11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670

- LEGEND:**
- ✦ CHANGE IN STRIPING PATTERN
  - (No.) PAVEMENT DELINEATION DETAIL NUMBER
  - REMOVE EXISTING ROADSIDE SIGN
  - \* RELOCATE EXISTING ROADSIDE SIGN
  - ↓ EXISTING SIGN LOCATION (ONE POST)
  - ↑ SIGN LOCATION (ONE POST)



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NO.	REVISION	DCP	DATE	APP



CITY OF CRESCENT CITY  
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FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 PAVEMENT DELINEATION AND SIGNING  
 STA 10+00.00 TO STA 12+49.00

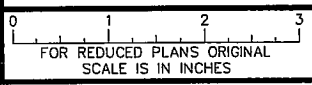


DESIGN BY	REU
DRAWN BY	REU
CHECKED BY	HEM
DATE	July 9, 2012
SCALE	1" = 20'
JOB NO.	11009

DRAWING NUMBER  
**PD-1**

SHEET NUMBER  
 79 OF 111

PLOT BY: RICHARD PLOT DATE: \$DATE\$ FILE NAME: \$FILEL\$



DESIGN OVERSIGHT			
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE

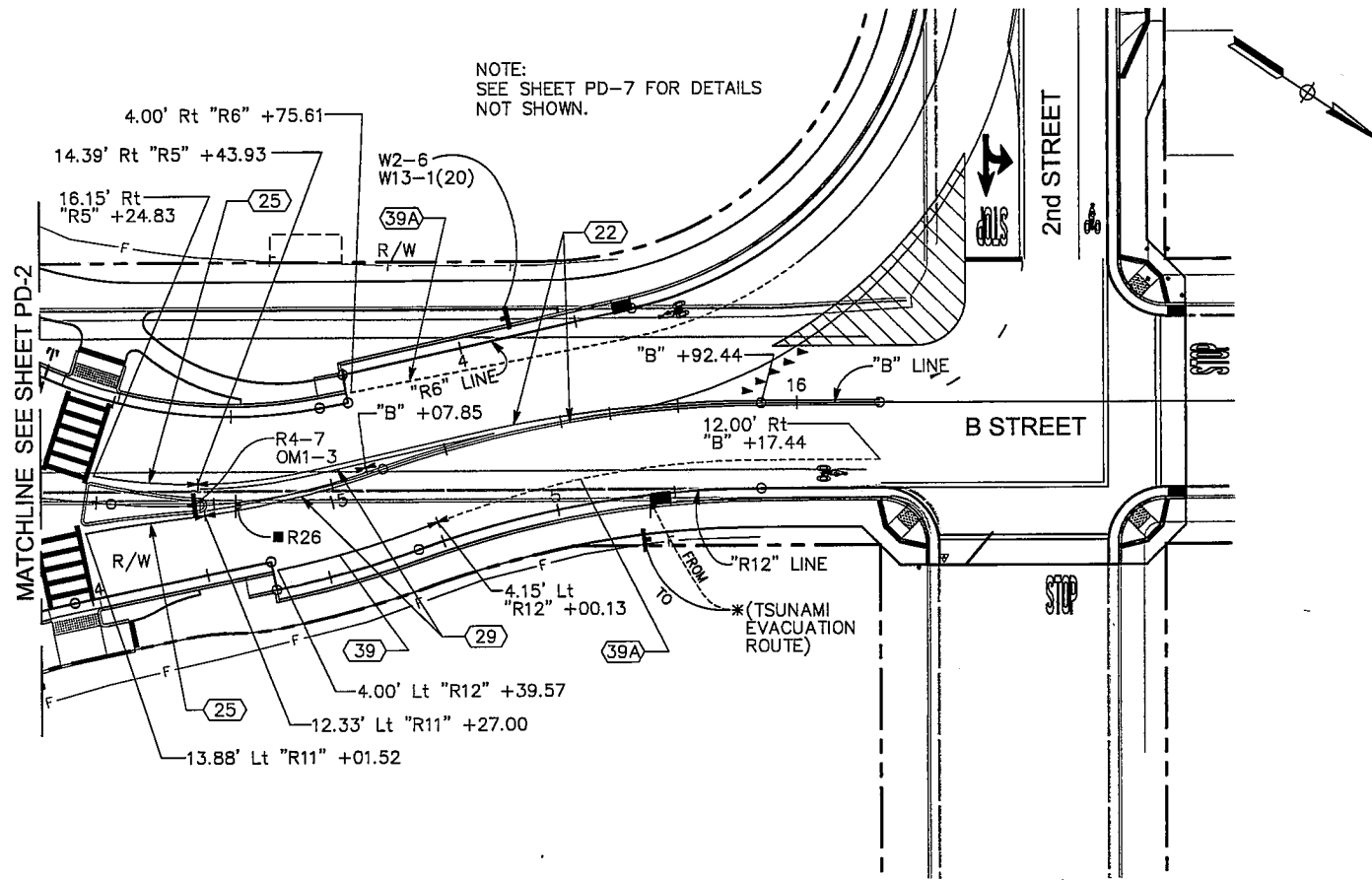
QUALITY CONTROL APPROVAL			
Q.C. REVIEW BY	R.C.E. NUMBER	SIGNATURE	DATE

**dh drake haglan AND ASSOCIATES** 11080 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670



**LEGEND:**

- ✂ CHANGE IN STRIPING PATTERN
- (No.) PAVEMENT DELINEATION DETAIL NUMBER
- REMOVE EXISTING ROADSIDE SIGN
- \* RELOCATE EXISTING ROADSIDE SIGN
- ⊥ EXISTING SIGN LOCATION (ONE POST)
- ⊥ SIGN LOCATION (ONE POST)



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NO.	REVISION	DATE	APP.



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Crescent City, CA 95531  
(707) 464-9506 phone  
(707) 465-4405 fax

FRONT STREET REVITALIZATION  
A STREET TO HIGHWAY 101 SOUTH  
PAVEMENT DELINEATION AND SIGNING  
STA 14+38.31 to STA 16+17.44

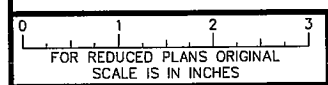


DESIGN BY REU  
DRAWN BY REU  
CHECKED BY HEM  
DATE July 9, 2012  
SCALE 1" = 20'  
JOB NO. 11009

DRAWING NUMBER  
**PD-2**

SHEET NUMBER  
80 of 111

PLOT BY: RICHARD PLOT DATE: \$DATE\$  
FILE NAME: \$FILEL\$



DESIGN OVERSIGHT  
SUPERVISION BY \_\_\_\_\_  
R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

QUALITY CONTROL APPROVAL  
Q.C. REVIEW BY \_\_\_\_\_  
R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

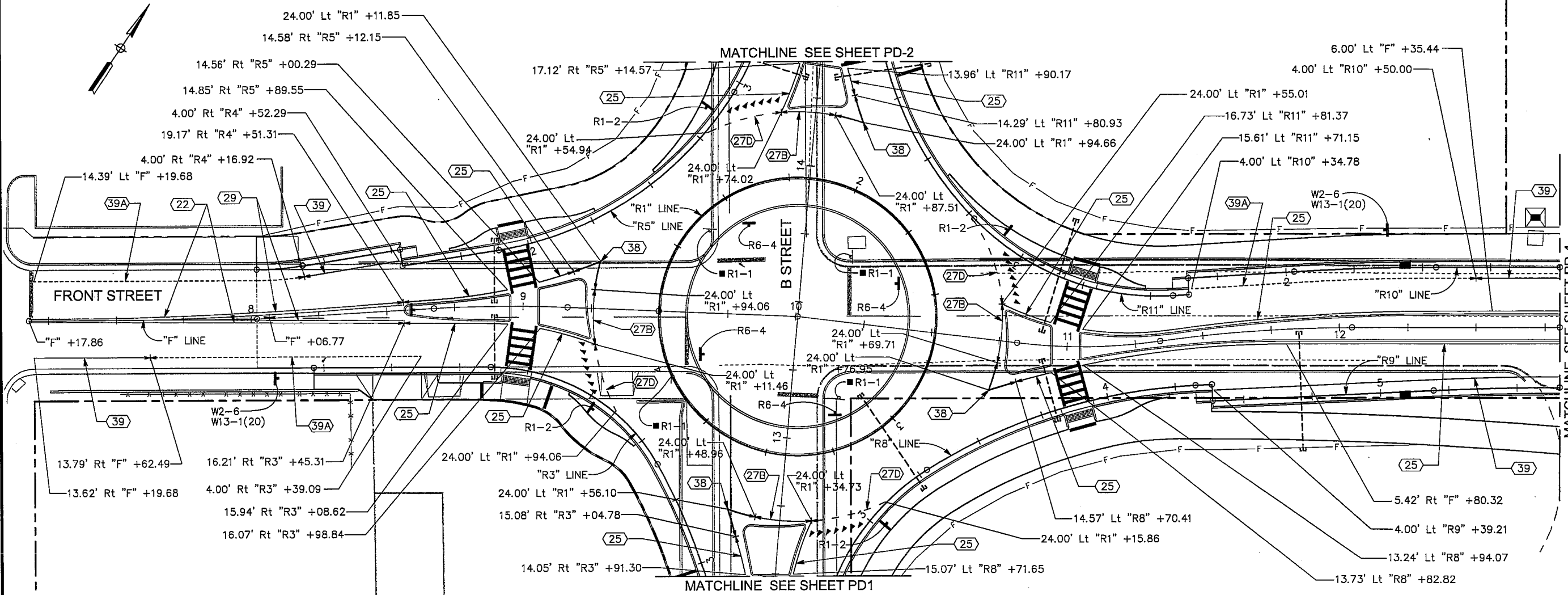
**dh drake haglan AND ASSOCIATES** 11060 White Rock Road, Suite 200  
Rancho Cordova, CA 95670

**LEGEND:**

- ✚ CHANGE IN STRIPING PATTERN
- (No.) PAVEMENT DELINEATION DETAIL NUMBER
- REMOVE EXISTING ROADSIDE SIGN
- \* RELOCATE EXISTING ROADSIDE SIGN
- ⊥ EXISTING SIGN LOCATION (ONE POST)
- ⊥ SIGN LOCATION (ONE POST)

**NOTE:**

SEE SHEET PDD-1 FOR DETAIL OF STRIPING DETAIL 27D.

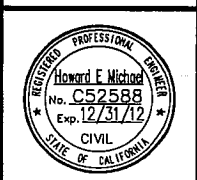


**FINAL SUBMITTAL - NOT FOR CONSTRUCTION**

NO.	REVISION	DCP	DATE	APP



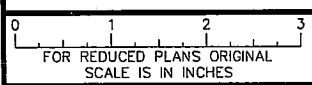
**FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 PAVEMENT DELINEATION AND SIGNING  
 STA 7+17.86 to STA 12+80.37**



DESIGN BY REU  
 DRAWN BY REU  
 CHECKED BY HEM  
 DATE July 9, 2012  
 SCALE 1" = 20'  
 JOB NO. 11009

DRAWING NUMBER  
**PD-3**  
 SHEET NUMBER  
 81 of 111

PLOT BY: RICHARD PLOT DATE: \$DATE\$  
 FILE NAME: \$FILEL\$



DESIGN OVERSIGHT

SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

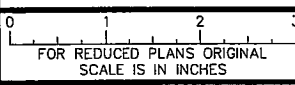
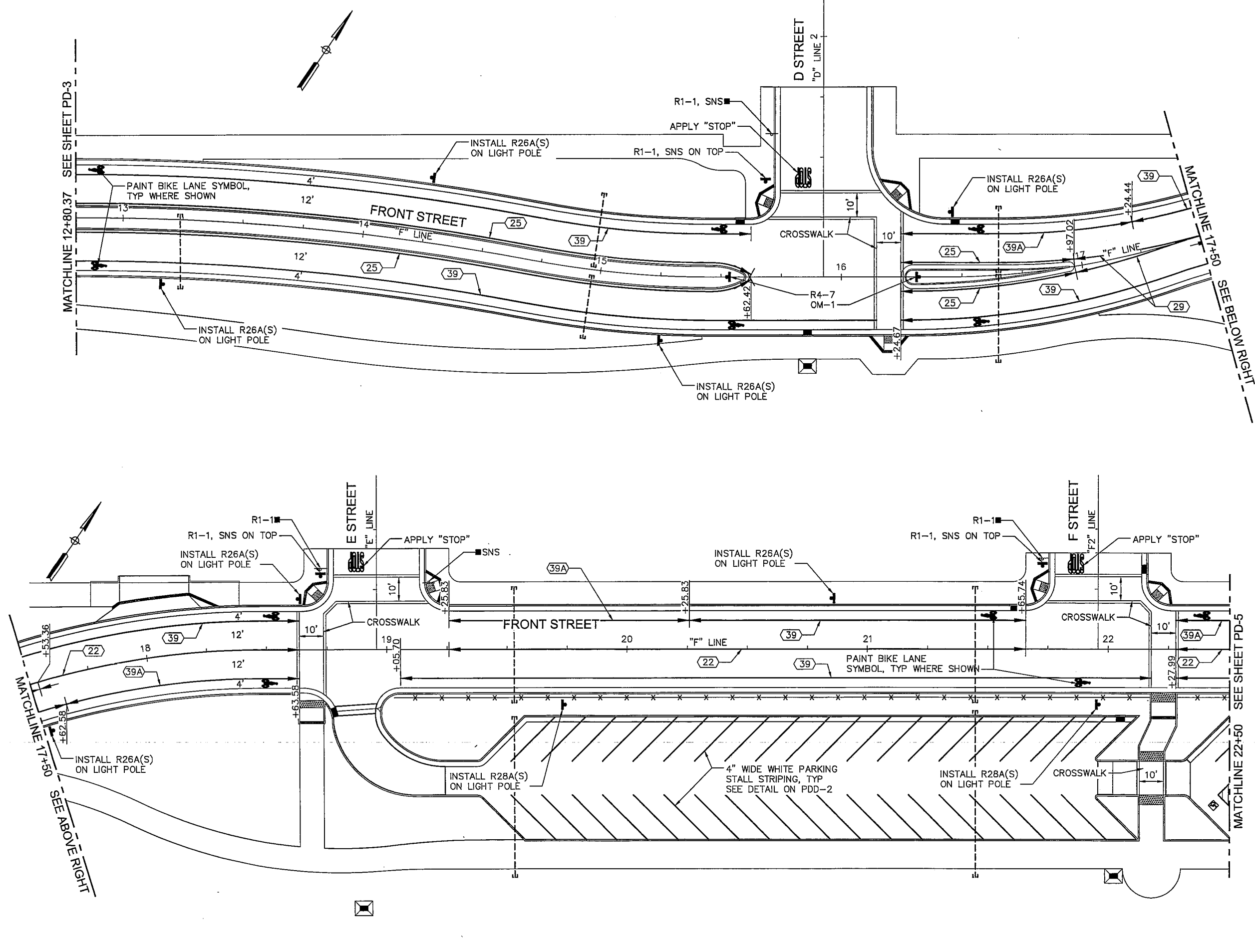
QUALITY CONTROL APPROVAL

Q.C. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**dh drake haglan AND ASSOCIATES**

11080 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: J:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET PD-3\_PD-5.DWG



DESIGN OVERSIGHT			
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE

QUALITY CONTROL APPROVAL			
Q.C. REVIEW BY	R.C.E. NUMBER	SIGNATURE	DATE

**dh drake haglan AND ASSOCIATES**  
 11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670

**FINAL SUBMITTAL - NOT FOR CONSTRUCTION**

NO.	REVISION	DCP	DATE	APP

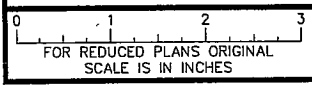
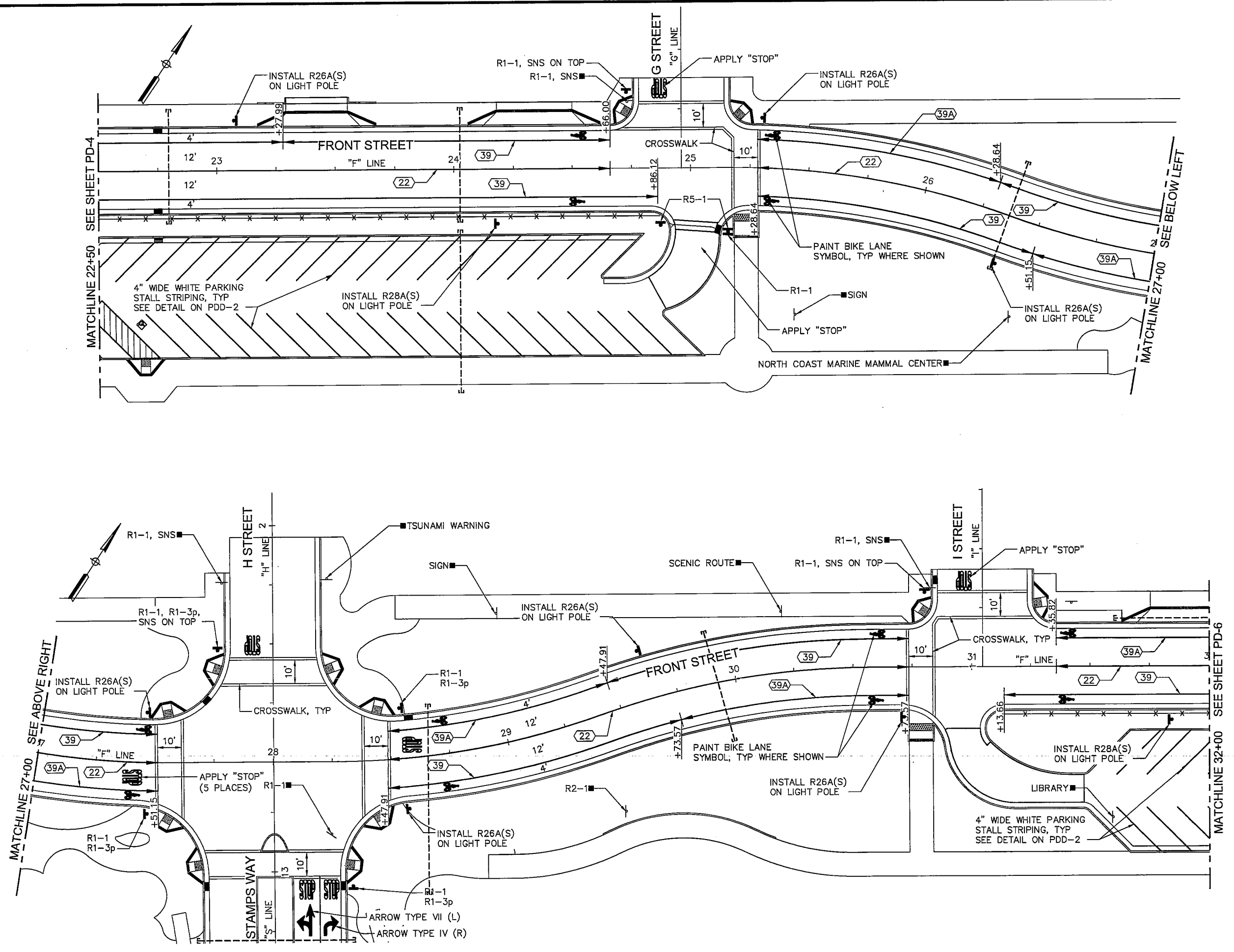
**CITY OF CRESCENT CITY**  
 377 J Street  
 Crescent City, CA 95531  
 (707) 464-9506 phone  
 (707) 465-4405 fax

**FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 PAVEMENT DELINEATION  
 STA 12+80.37 TO STA 22+50**

**REGISTERED PROFESSIONAL ENGINEER**  
 Howard F. Michole  
 No. C52588  
 Exp. 12/31/12  
 CIVIL  
 STATE OF CALIFORNIA

DESIGN BY	DCP
DRAWN BY	DCP
CHECKED BY	HEM
DATE	July 9, 2012
SCALE	1" = 20'
JOB NO.	11009
DRAWING NUMBER	<b>PD-4</b>
SHEET NUMBER	82 OF 114

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET PD-3\_PD-5.DWG



DESIGN OVERSIGHT

SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

QUALITY CONTROL APPROVAL

Q.C. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**dh drake haglan AND ASSOCIATES** 11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670

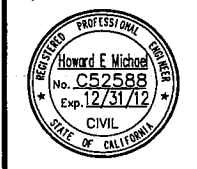
FINAL SUBMITTAL - NOT FOR CONSTRUCTION

NO.	REVISION	DCP	DATE	APP



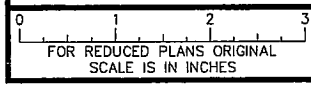
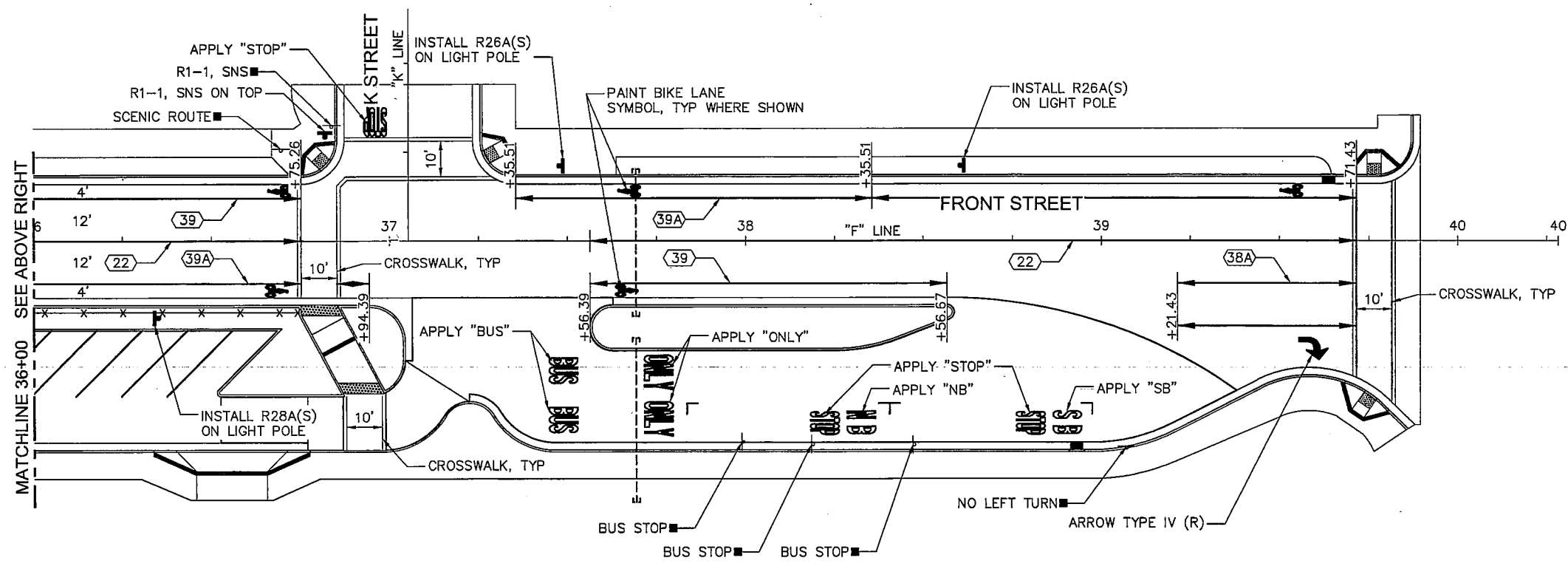
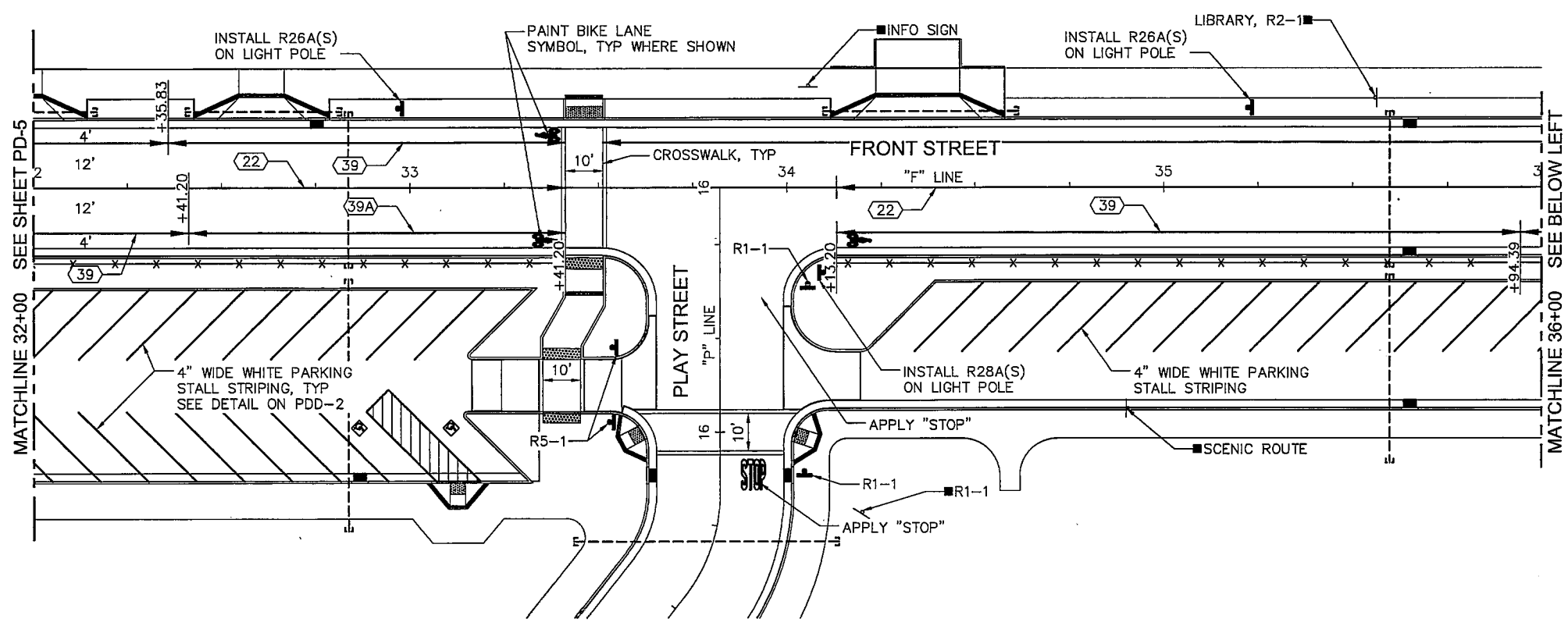
CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 464-6506 phone  
 (707) 465-4405 fax

**FRONT STREET REVITALIZATION**  
**(A STREET TO HIGHWAY 101 SOUTH)**  
**PAVEMENT DELINEATION**  
**STA 22+50 to STA 32+00**



DESIGN BY: DCP  
 DRAWN BY: DCP  
 CHECKED BY: HEM  
 DATE: July 9, 2012  
 SCALE: 1" = 20'  
 JOB NO.: 11009  
 DRAWING NUMBER: **PD-5**  
 SHEET NUMBER: 83 OF 114

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET PD-3\_PD-5.DWG



DESIGN OVERSIGHT			
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE

QUALITY CONTROL APPROVAL			
Q.C. REVIEW BY	R.C.E. NUMBER	SIGNATURE	DATE

**dh drake haglan AND ASSOCIATES** 11050 White Rock Road, Suite 200  
 Rancho Cordova, CA 95870

FINAL SUBMITTAL - NOT FOR CONSTRUCTION

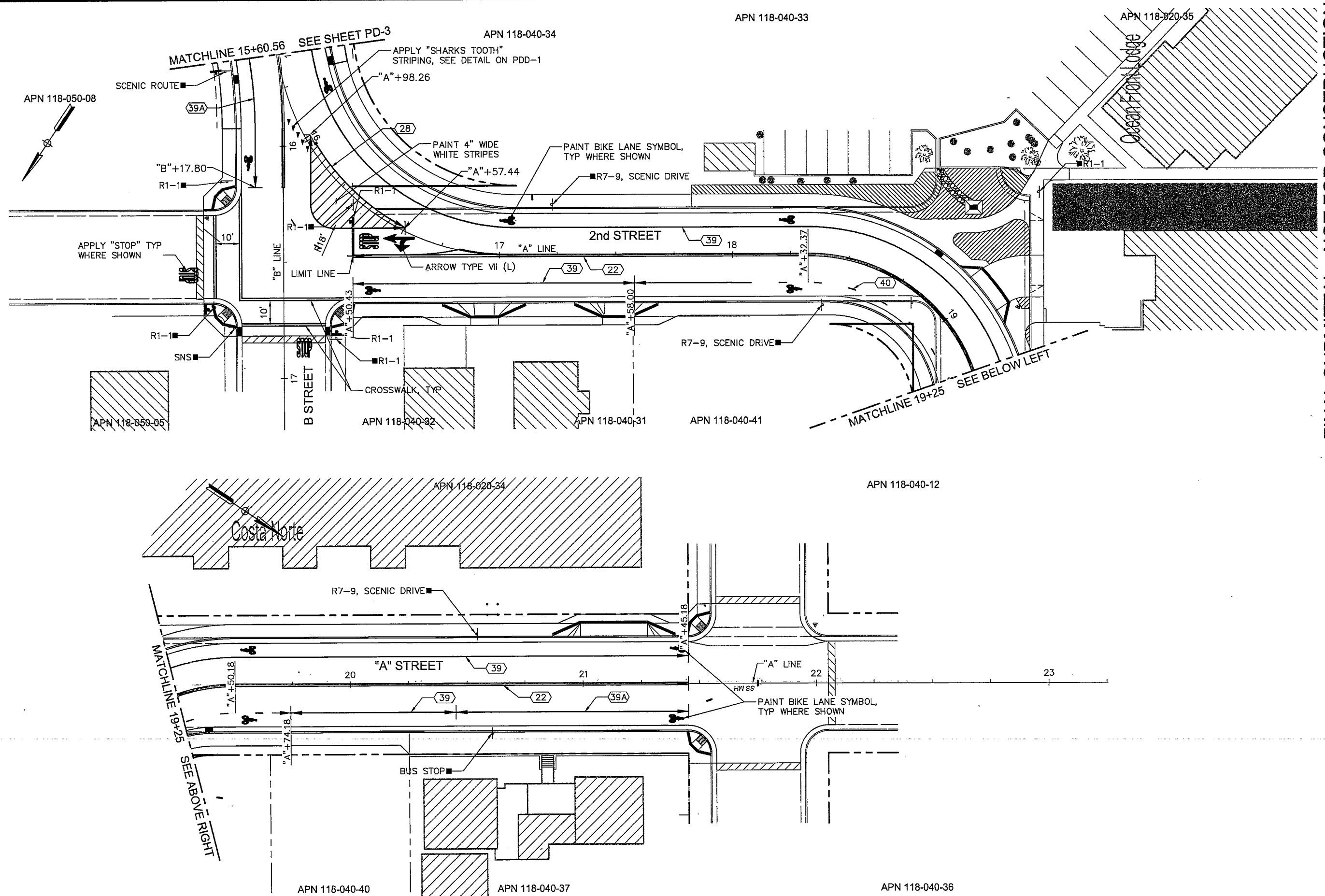
NO.	REVISION	DCP DATE	APP

CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 464-9506 phone  
 (707) 465-4405 fax

FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 PAVEMENT DELINEATION  
 STA 32+00 TO STA 40+00

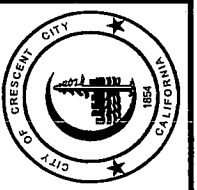
DESIGN BY	DCP
DRAWN BY	DCP
CHECKED BY	HEM
DATE	July 9, 2012
SCALE	1" = 20'
JOB NO.	11009
DRAWING NUMBER	PD-6
SHEET NUMBER	84 OF 114

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL FRONT STREET PD-7.DWG



**FINAL SUBMITTAL - NOT FOR CONSTRUCTION**

NO.	REVISION	DATE	APP.



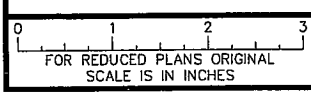
CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 464-9506 phone  
 (707) 465-4405 fax

**FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 PAVEMENT DELINEATION  
 STA 15+60.56 TO STA 21+75.18**

DESIGN BY	DCP
DRAWN BY	DCP
CHECKED BY	HEM
DATE	July 9, 2012
SCALE	1" = 20'
JOB NO.	11009
DRAWING NUMBER	

PD-7

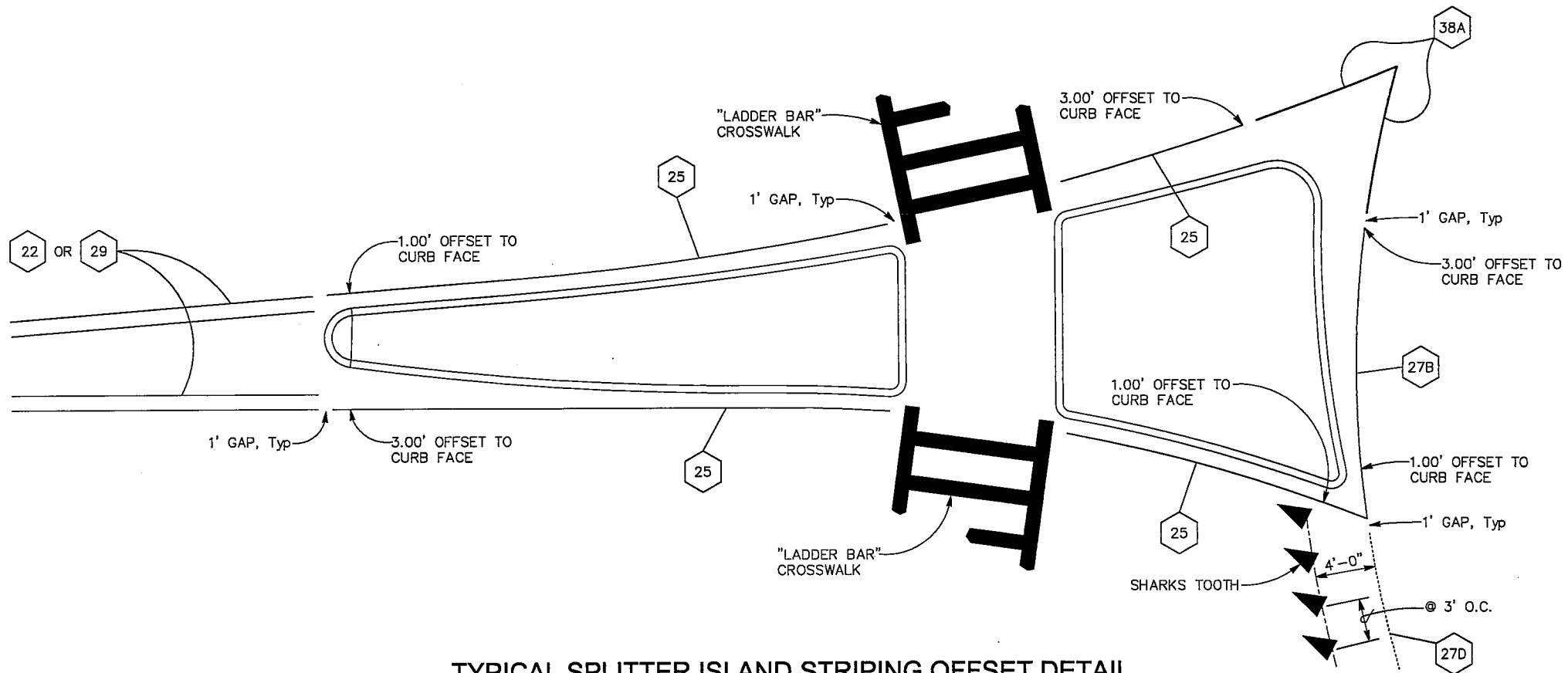
SHEET NUMBER  
85 of 114



DESIGN OVERSIGHT			
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE

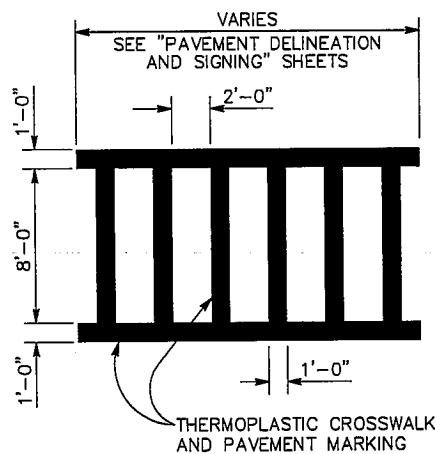
QUALITY CONTROL APPROVAL			
Q.C. REVIEW BY	R.C.E. NUMBER	SIGNATURE	DATE

11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670



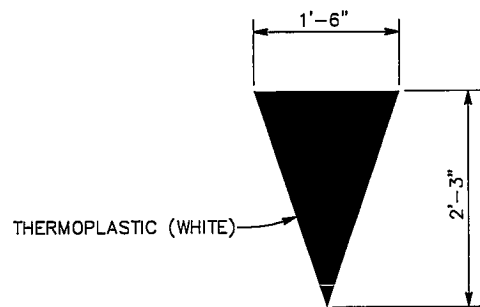
**TYPICAL SPLITTER ISLAND STRIPING OFFSET DETAIL**

NOT TO SCALE



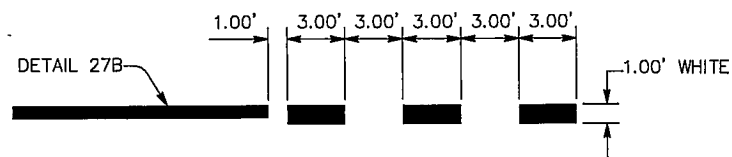
**"LADDER BAR" CROSSWALK DETAIL**

NOT TO SCALE



**"SHARKS TOOTH" STRIPING DETAIL**

NOT TO SCALE



**YIELD LINE DETAIL 27D**

NOT TO SCALE

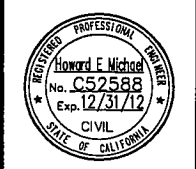
FINAL SUBMITTAL - NOT FOR CONSTRUCTION

NO.	REVISION	DCP	DATE	APP



CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 464-8586 phone  
 (707) 465-4405 fax

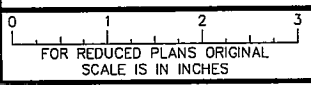
**FRONT STREET REVITALIZATION  
 (A STREET to HIGHWAY 101 SOUTH)  
 PAVEMENT DELINEATION  
 AND SIGN DETAILS**



DESIGN BY	REU
DRAWN BY	REU
CHECKED BY	HEM
DATE	July 9, 2012
SCALE	AS SHOWN
JOB NO.	11009
DRAWING NUMBER	PDD-1

SHEET NUMBER  
 86 OF 114

PLOT: R:\Drawing\Plot\... FILE NAME: \$FILEL\$

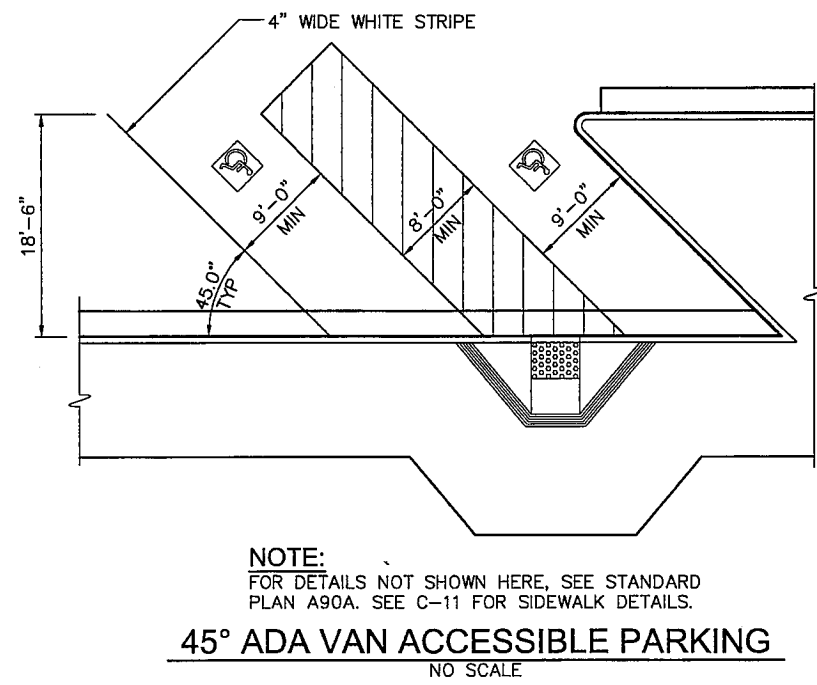
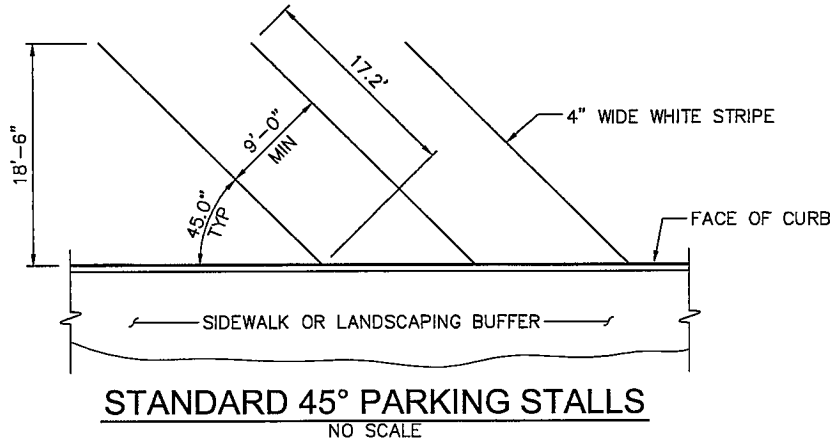


DESIGN OVERSIGHT  
 SUPERVISION BY \_\_\_\_\_ SUPER RCE  
 SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

QUALITY CONTROL APPROVAL  
 QC REVIEW BY \_\_\_\_\_ QCERS RCE  
 Q.C. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**dh drake haglan AND ASSOCIATES** 11080 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670

PLOT BY: CRAIG PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: U:\11009 - FRONT STREET\400 PROJECT DESIGN FILES\420 ROADWAY & CIVIL\SUBMITTAL\100% SUBMITTAL\PL\FRONT STREET PDD-2.DWG



**NOTE:**  
 FOR DETAILS NOT SHOWN HERE, SEE STANDARD  
 PLAN A90A. SEE C-11 FOR SIDEWALK DETAILS.

FINAL SUBMITTAL - NOT FOR CONSTRUCTION



CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 465-3610 phone  
 (707) 465-4405 fax

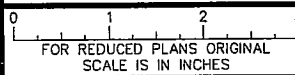
FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 PAVEMENT DELINEATION DETAILS



DESIGN BY DCP  
 DRAWN BY DCP  
 CHECKED BY HEM  
 DATE July 9, 2012  
 SCALE AS SHOWN  
 JOB NO. 11009

DRAWING NUMBER  
**PDD-2**

SHEET NUMBER  
 87 OF 114



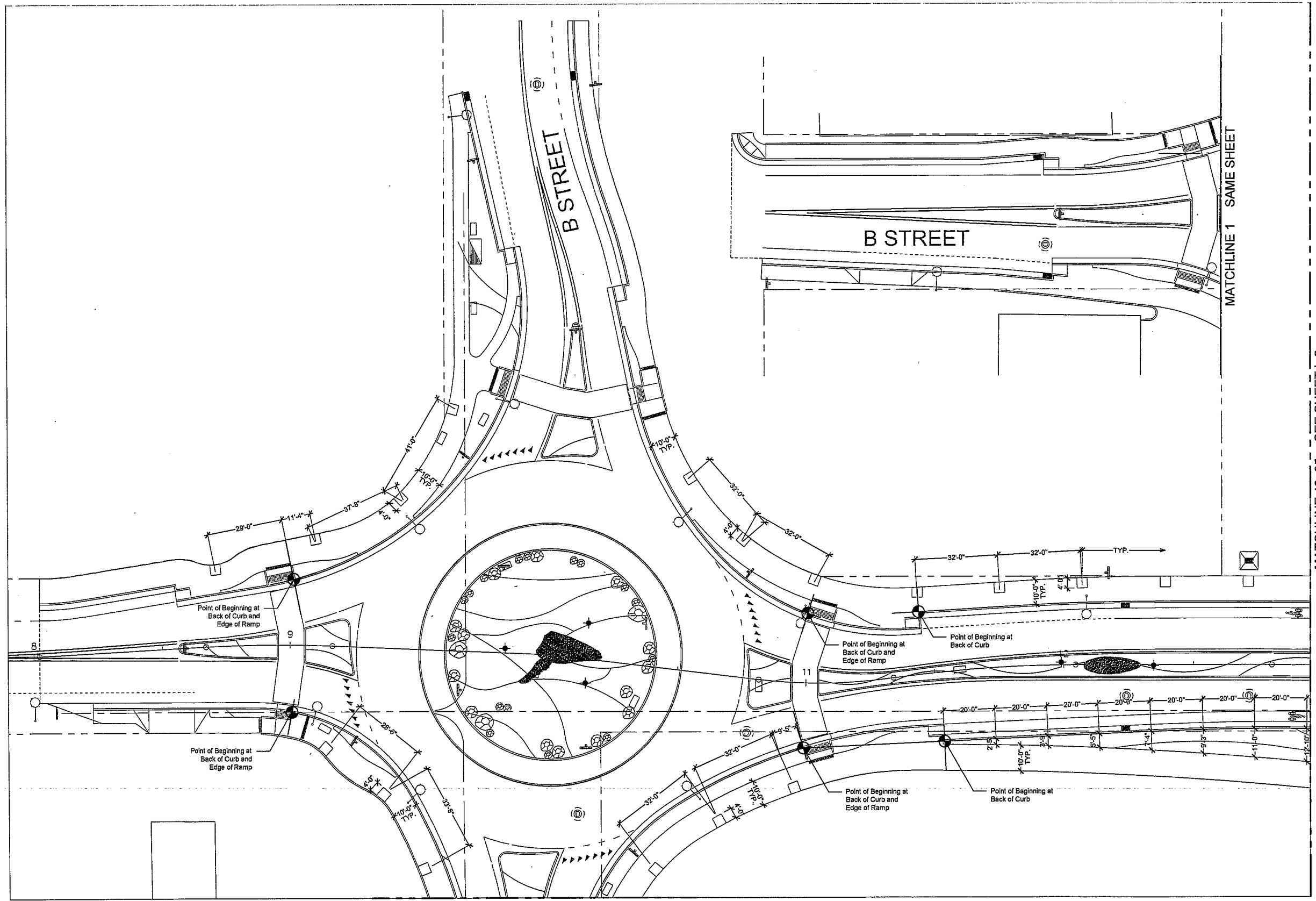
DESIGN OVERSIGHT  
 SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

QUALITY CONTROL APPROVAL  
 Q.C. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**dh drake haglan AND ASSOCIATES**  
 11060 White Rock Road, Suite 200  
 Rancho Cordova, CA 95670



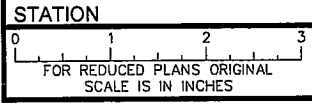
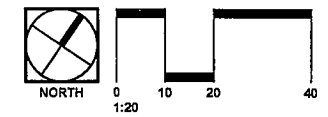
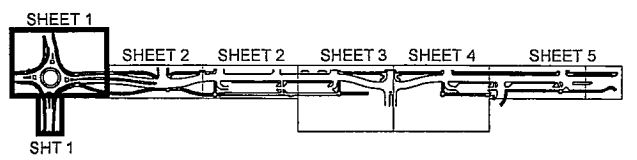
PLOT BY: SSTMICHEL PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: F:\DW\PROJECTS\4758-FRONT STREET-CRESCENT CITY\DW-CAD\L4-LAYOUT.DWG



- LEGEND**
- Accent Light
  - Fence Light
  - Seatwall Light
  - Crab Box

MATCHLINE 12+95 SEE SHEET L-2

MATCHLINE 1 SAME SHEET



DESIGN OVERSIGHT			
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE

QUALITY CONTROL APPROVAL			
Q.C. REVIEW BY	R.C.E. NUMBER	SIGNATURE	DATE

**DESIGNWORKSHOP**

P.O. Box 5666  
 128 Market Street, Suite 3E  
 Stateline, Nevada 89449-5666

(775) 588-5929  
 Facsimile (775) 588-1559  
 www.designworkshop.com

NO.	REVISION	DATE	APP.



CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 464-5606 phone  
 (707) 465-4405 fax

**FRONT STREET REVITALIZATION**  
**LAYOUT PLAN**  
**STATION RANGE 7+95 TO 12+95**

FINAL SUBMITTAL  
 NOT FOR  
 CONSTRUCTION

DESIGN BY ML
DRAWN BY ML
CHECKED BY SS
DATE 7/9/2012
SCALE 1"=20'
JOB NO. 4758
DRAWING NUMBER

**L-1**

SHEET NUMBER  
 88 OF 114

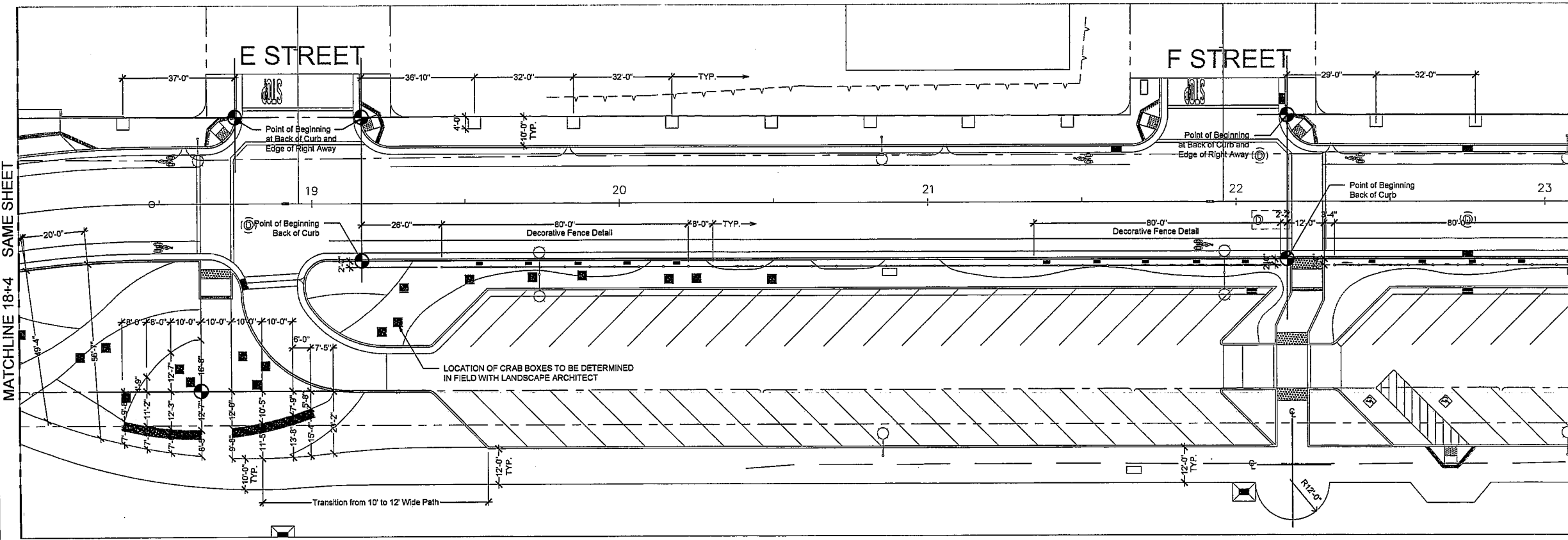
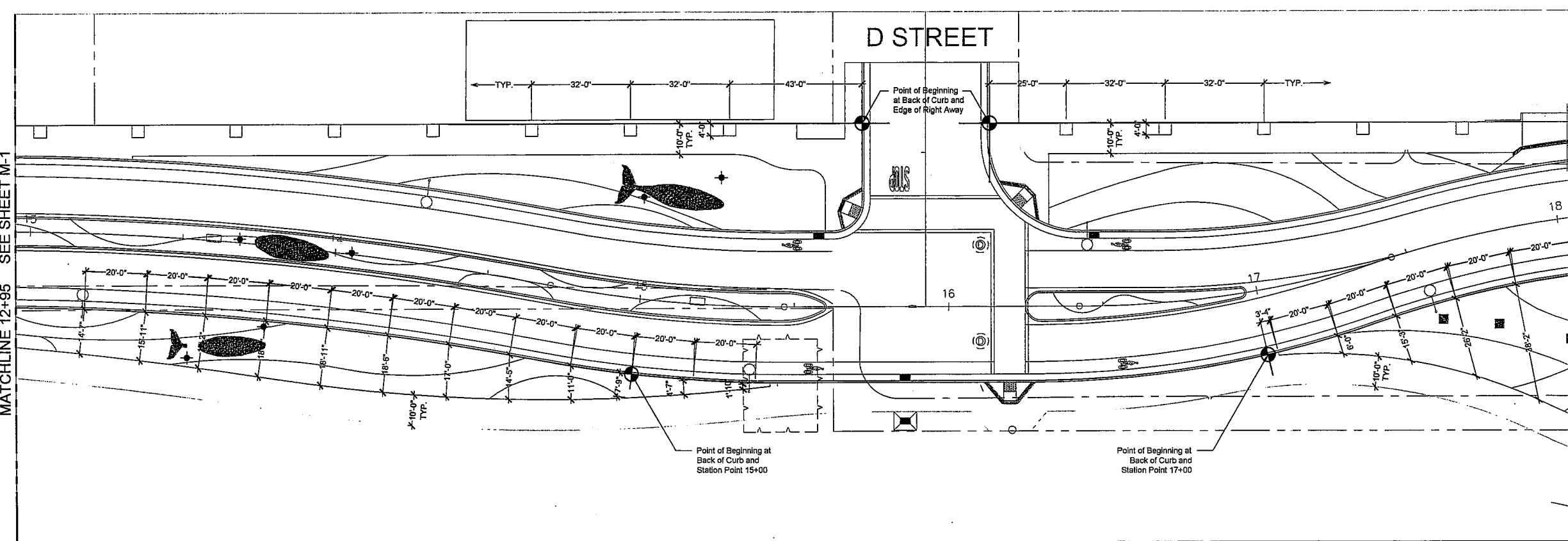
PLOT BY: SSMICHEL PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: F:\DW\PROJECTS\4758-FRONT STREET-CRESCENT CITY\DW-CAD\L4-LAYOUT.DWG

MATCHLINE 12+95 SEE SHEET M-1

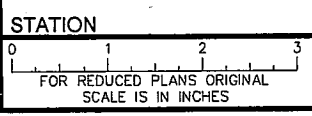
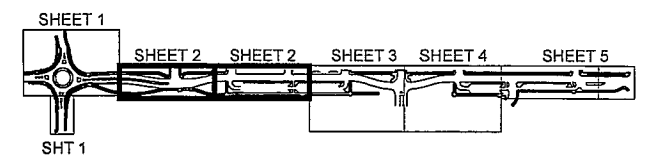
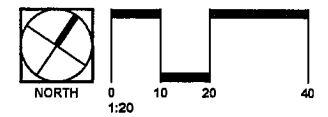
MATCHLINE 18+4 SAME SHEET

MATCHLINE 18+4 SAME SHEET

MATCHLINE 23+8 SEE SHEET M-3



- LEGEND**
- Accent Light
  - Fence Light
  - Seawall Light
  - Crab Box



DESIGN OVERSIGHT			
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE

QUALITY CONTROL APPROVAL			
Q.C. REVIEW BY	R.C.E. NUMBER	SIGNATURE	DATE

**DESIGNWORKSHOP**

P.O. Box 5666  
 128 Market Street, Suite 3E  
 Stateline, Nevada 89449-5666

(775) 588-5929  
 Facsimile (775) 588-1559  
 www.designworkshop.com

NO.	REVISION	DATE	APP.



CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 464-8909 phone  
 (707) 465-4405 fax

**FRONT STREET REVITALIZATION**  
**LAYOUT PLAN**  
**STATION RANGE 12+95 TO 23+8**

FINAL SUBMITTAL  
 NOT FOR  
 CONSTRUCTION

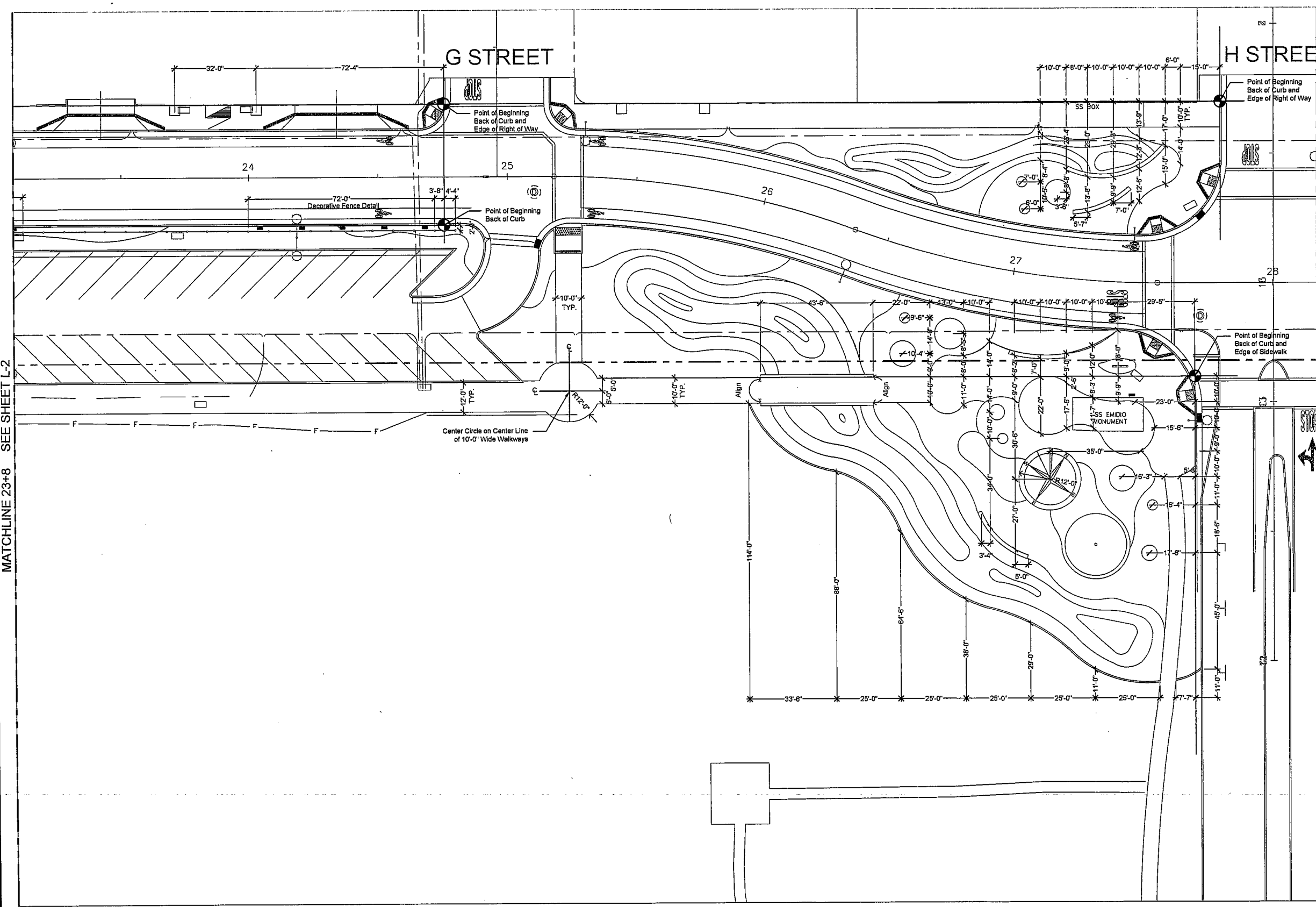
DESIGN BY ML
DRAWN BY ML
CHECKED BY SS
DATE 7/9/2012
SCALE 1"=20'
JOB NO. 4758
DRAWING NUMBER

**L-2**

SHEET NUMBER  
 89 OF 114

PLOT BY: SSTMICHEL PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: F:\DW\PROJECTS\4758-FRONT STREET-CRESCENT CITY\D-CAD\L4-LAYOUT.DWG

MATCHLINE 23+8 SEE SHEET L-2



**LEGEND**

- Accent Light
- Fence Light
- Seawall Light
- Crab Box

NO.	REVISION	DATE	APP



CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 464-9506 phone  
 (707) 465-4405 fax

**FRONT STREET REVITALIZATION  
 LAYOUT PLAN  
 STATION RANGE 23+8 TO 28+17**

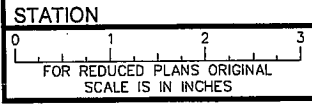
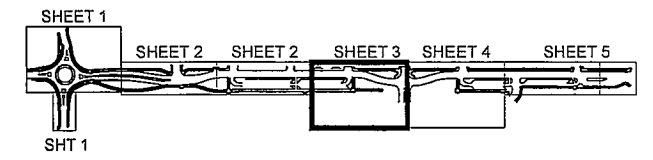
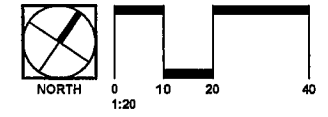
FINAL SUBMITTAL  
 NOT FOR  
 CONSTRUCTION

DESIGN BY ML
DRAWN BY ML
CHECKED BY SS
DATE 7/9/2012
SCALE 1"=20'
JOB NO. 4758
DRAWING NUMBER

**L-3**

SHEET NUMBER  
 90 OF 114

MATCHLINE 28+17 SEE SHEET L-4



DESIGN OVERSIGHT			
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE

QUALITY CONTROL APPROVAL			
Q.C. REVIEW BY	R.C.E. NUMBER	SIGNATURE	DATE

**DESIGNWORKSHOP**

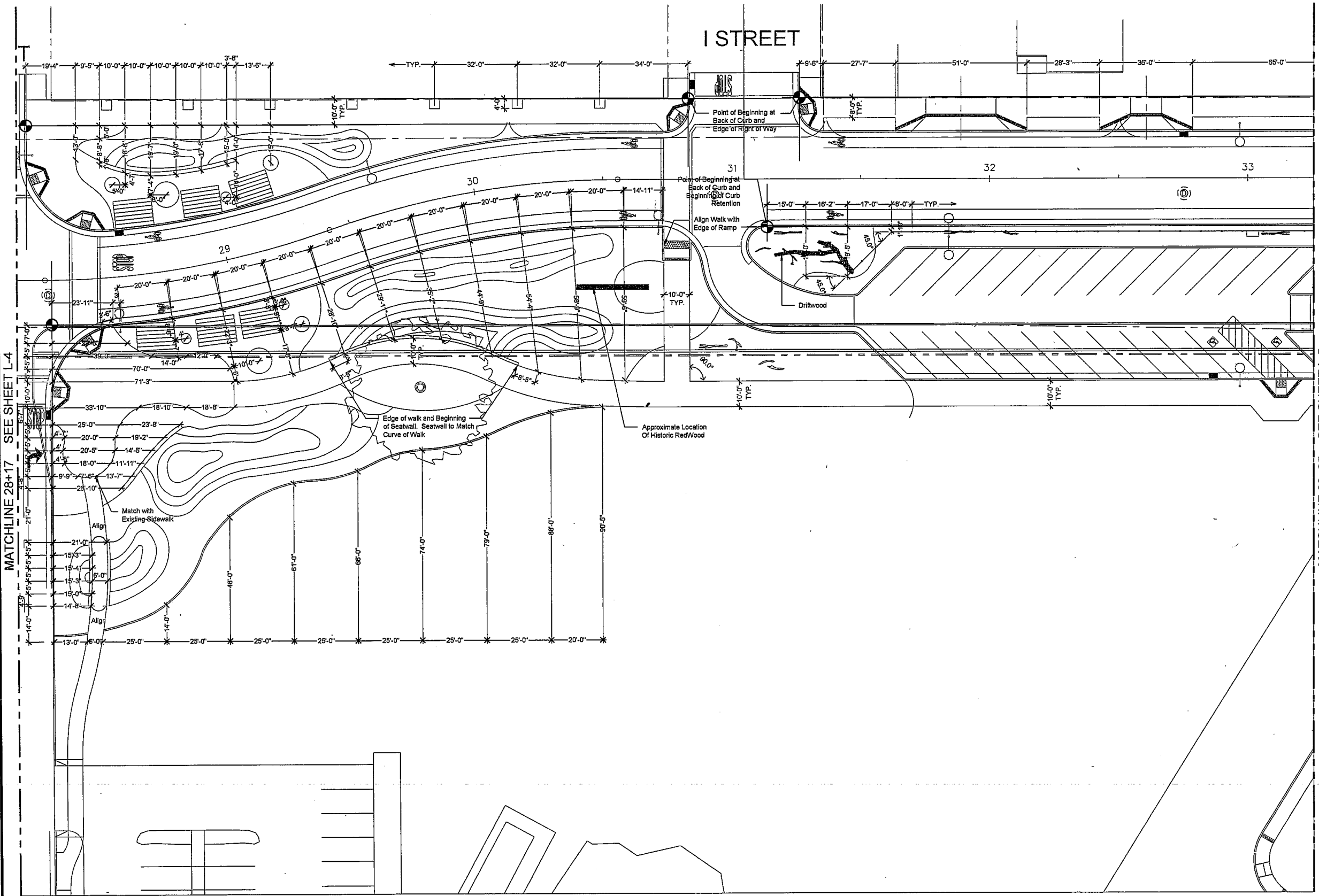
P.O. Box 5666  
 128 Market Street, Suite 3E  
 Stateline, Nevada 89449-5666

(775) 588-5929  
 Facsimile (775) 588-1559  
 www.designworkshop.com

STATION

SHEET NUMBER

PLOT BY: SSTMICHEL PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: F:\DW\PROJECTS\4758-FRONT STREET-CRESCENT CITY\DW-CAD\L4-LAYOUT.DWG



**LEGEND**

- Accent Light
- Fence Light
- Seatwall Light
- Crab Box

NO.	REVISION	DATE	APP.

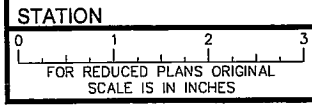
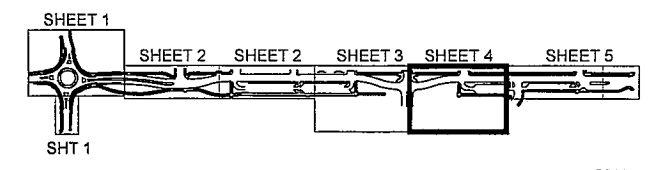
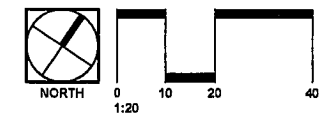


CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 464-9506 phone  
 (707) 465-4405 fax

**FRONT STREET REVITALIZATION**  
**LAYOUT PLAN**  
**STATION RANGE 28+17 TO 33+25**

FINAL SUBMITTAL  
 NOT FOR  
 CONSTRUCTION

DESIGN BY ML
DRAWN BY ML
CHECKED BY SS
DATE 7/9/2012
SCALE, 1"=20'
JOB NO. 4758
DRAWING NUMBER
<b>L-4</b>
SHEET NUMBER
91 OF 114

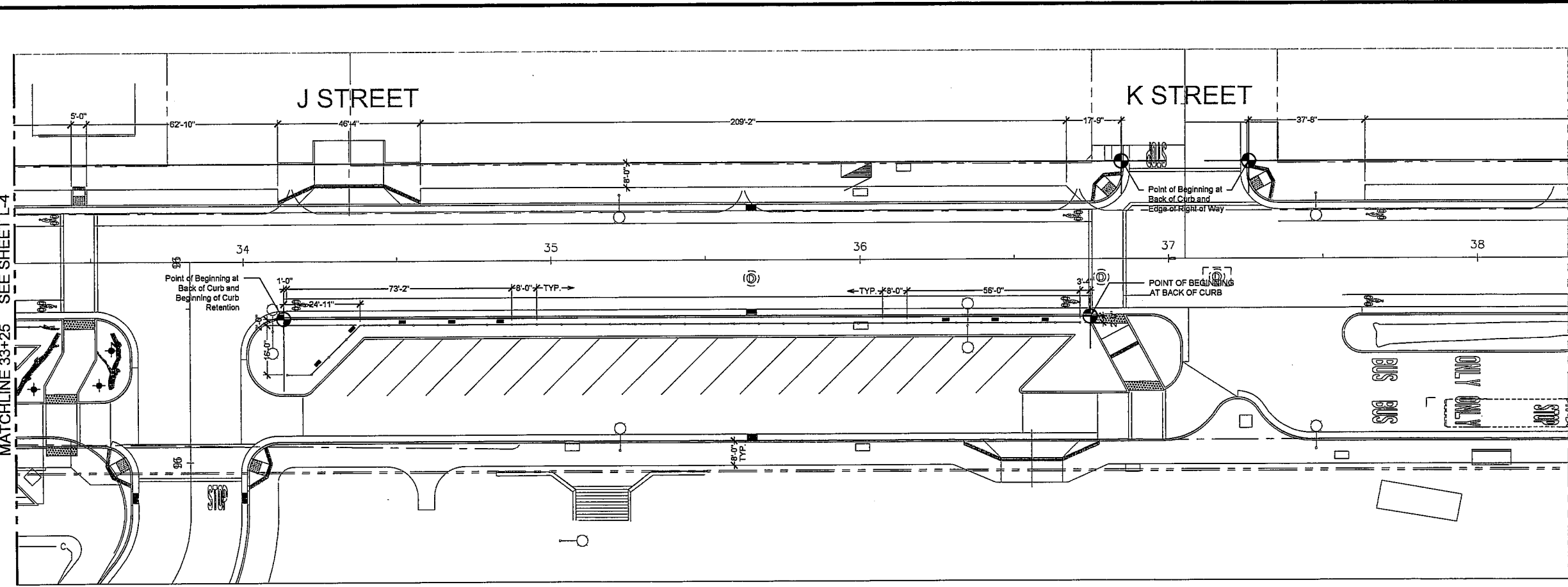


DESIGN OVERSIGHT				QUALITY CONTROL APPROVAL			
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE	O.C. REVIEW BY	R.C.E. NUMBER	SIGNATURE	DATE

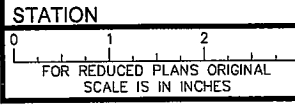
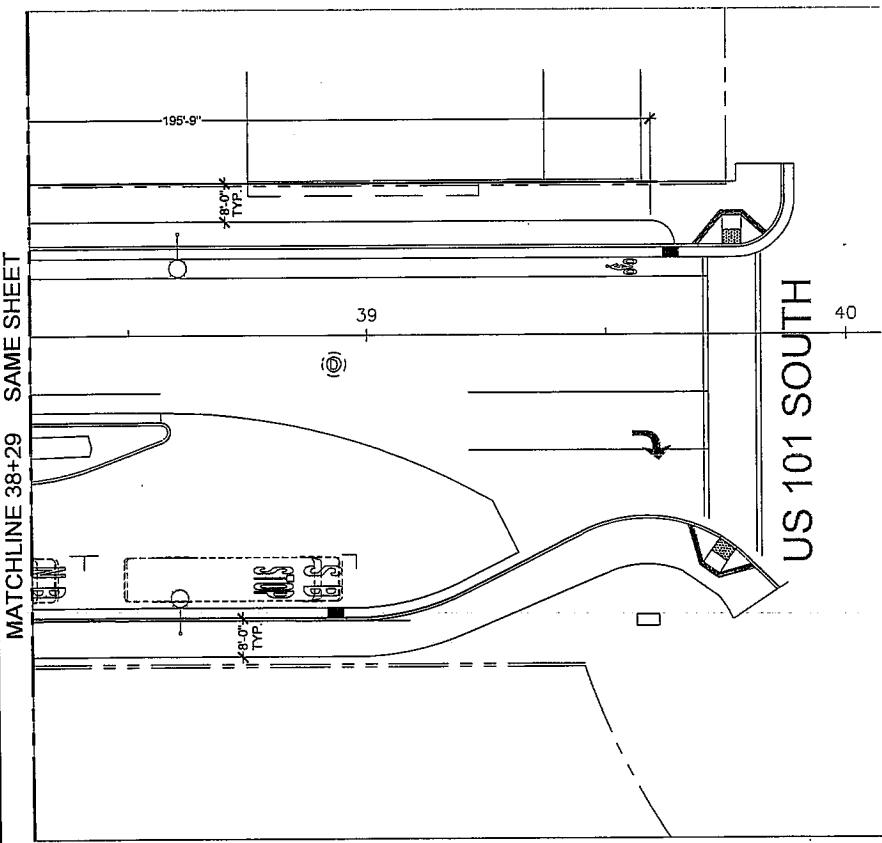
DESIGN OVERSIGHT				QUALITY CONTROL APPROVAL			
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE	O.C. REVIEW BY	R.C.E. NUMBER	SIGNATURE	DATE

**DESIGNWORKSHOP**  
 P.O. Box 5666  
 128 Market Street, Suite 3E  
 Stateline, Nevada 89449-5666  
 (775) 588-5929  
 Facsimile (775) 588-1559  
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PLOT BY: SSMICHEL PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: F:\DW\PROJECTS\4758-FRONT STREET-CRESCENT CITY\D-CAD\L4-LAYOUT.DWG



- LEGEND**
- Accent Light
  - Fence Light
  - Seawall Light
  - Crab Box



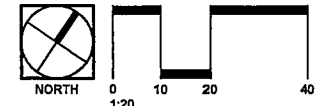
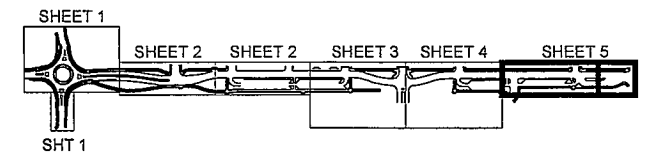
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 SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

QUALITY CONTROL APPROVAL  
 Q.C. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

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 Crescent City, CA 95531  
 (707) 464-9506 phone  
 (707) 465-4405 fax

**FRONT STREET REVITALIZATION**  
**LAYOUT PLANS**  
**STATION RANGE 33+25 TO 40**

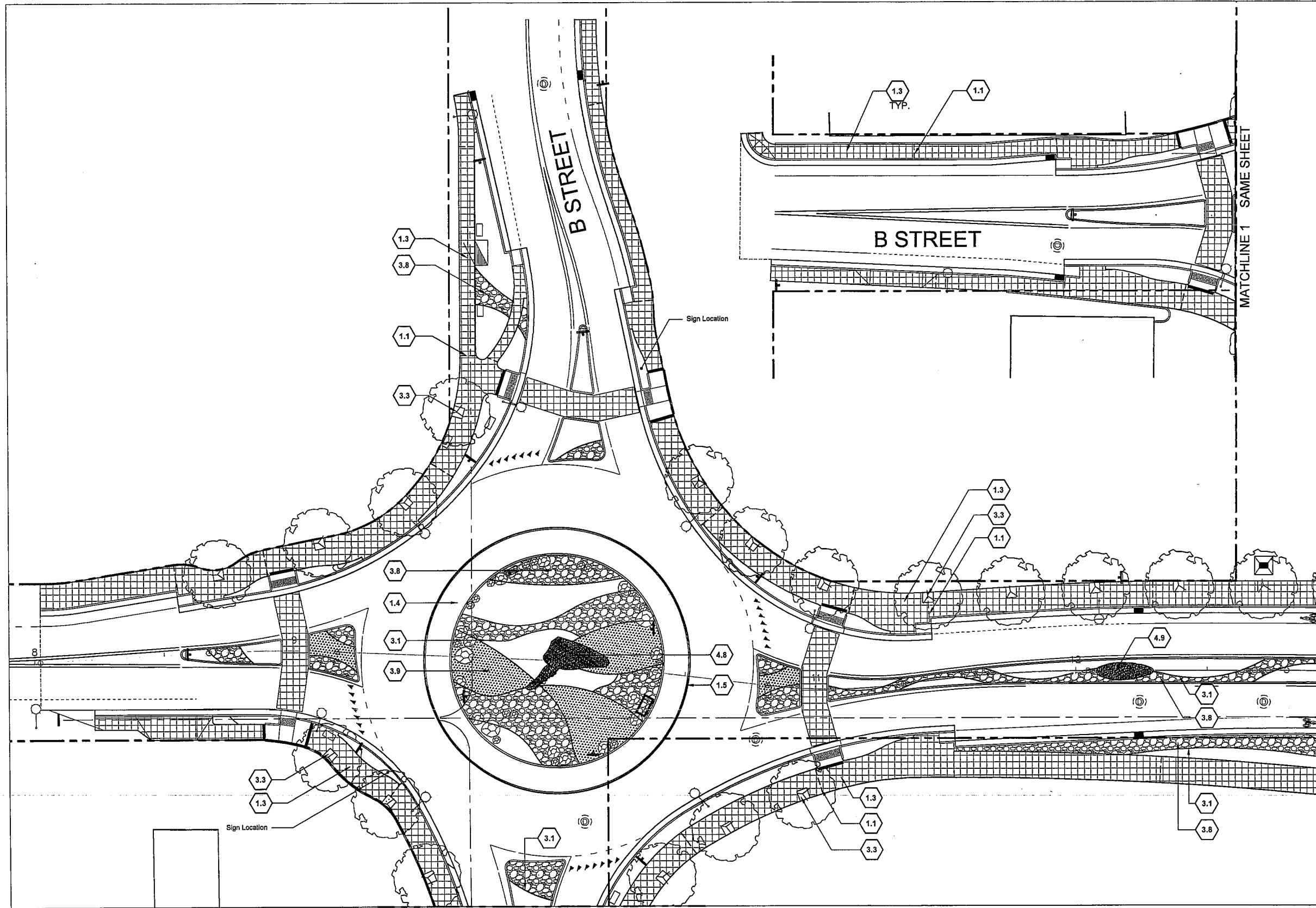
FINAL SUBMITTAL  
 NOT FOR  
 CONSTRUCTION

DESIGN BY ML  
 DRAWN BY ML  
 CHECKED BY SS  
 DATE 7/9/2012  
 SCALE 1"=20'  
 JOB NO. 4758

DRAWING NUMBER  
**L-5**

SHEET NUMBER  
 92 OF 114

PLOT BY: SSTMICHEL PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: F:\DW\PROJECTS\4758-FRONT STREET-CRESCENT CITY\DW-CAD\12-MATERIALS.DWG



**MATERIALS LEGEND**

	Decomposed Granite		8"-12" River Cobble
	Stabilized Decomposed Granite Path		2"-6" River Cobble
	Recycled Glass		Boardwalk
	Exposed Aggregate		Seatwall
			Concrete Wall

**SITE DETAIL KEYNOTES: DETAIL / SHEET**

KEYNOTE	DESCRIPTION	DETAIL / SHEET
<b>1.0 PAVEMENTS</b>		
1.1	Expansion Joint	LPD-1
1.2	Control Joint	LPD-1
1.3	Stamped Concrete	LPD-1
1.4	Exposed Aggregate Conc	LPD-1
1.5	Concrete Band	LPD-1
1.6	Stabilize Decomposed Path	LPD-1
1.7	Boulder in Paving	LPD-1
1.8	Compass Paving	LPD-1
<b>2.0 SITE WALLS/ ENCLOSURES</b>		
2.1	Seatwall Type 1	LPD-2
2.2	Seatwall Type 2	LPD-2
2.3	Gabion Box	LPD-2
2.4	Retaining Wall	LPD-2
2.5	Wall Finish	LPD-2
2.6	Corten Planter	LPD-2
2.7	Fence	LPD-2
2.8	Fence Detail	LPD-2
<b>3.0 PLANTING AND LANDSCAPE</b>		
3.1	Landscape Steel Edging	LPD-3
3.2	Decomposed Granite Mulch	LPD-3
3.3	Tree Planting in Paving	LPD-3
3.4	Shrub Planting	LPD-3
3.5	Planting on Berm	LPD-3
3.6	Tree Planting	LPD-3
3.7	2"-6" River Cobble	LPD-3
3.8	8"-12" River Cobble	LPD-3
3.9	Recycled Glass	LPD-3
<b>4.0 SITE SECTIONS AND ELEVATIONS</b>		
4.1	Fence # 1	LPD-4
4.2	Fence # 2	LPD-4
4.3	Fence # 3	LPD-4
4.4	Fence # 4	LPD-4
4.5	Fence # 5	LPD-5
4.6	Fence # 6	LPD-5
4.7	Concrete Wall Elevation	LPD-5
4.8	Whale # 1	LPD-5
4.9	Whale # 2 and # 4	LPD-5
4.10	Whale # 3	LPD-5
4.11	Whale # 5	LPD-5



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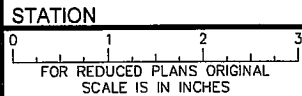
**FRONT STREET REVITALIZATION**  
**MATERIALS PLAN**  
 STATION RANGE 7+95 TO 12+95

FINAL SUBMITTAL  
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 CONSTRUCTION

DESIGN BY ML  
 DRAWN BY ML  
 CHECKED BY SS  
 DATE 7/9/2012  
 SCALE 1"=20'  
 JOB NO. 4758  
 DRAWING NUMBER

**M-1**

SHEET NUMBER  
 93 OF 114

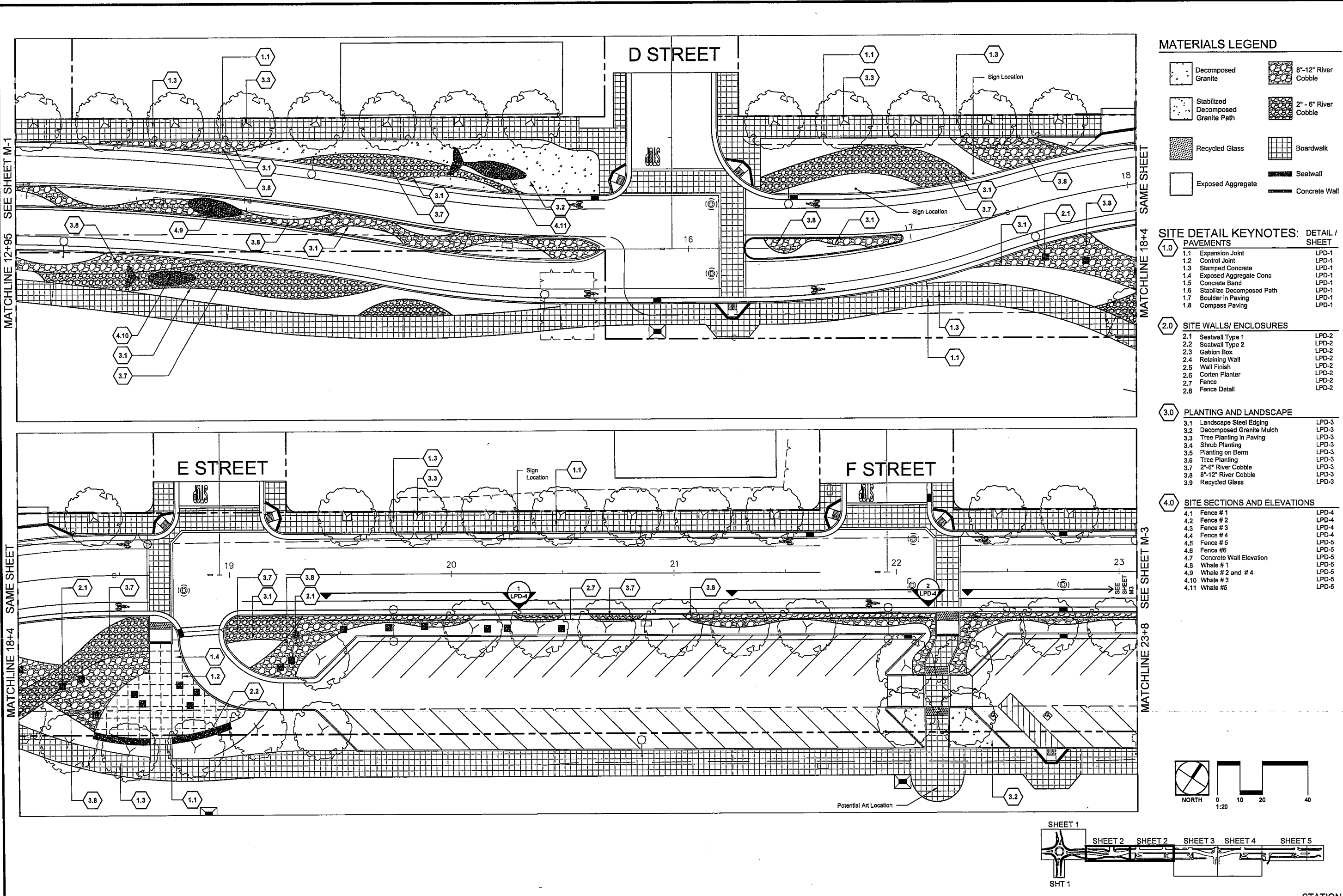


DESIGN OVERSIGHT			
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE

QUALITY CONTROL APPROVAL			
O.C. REVIEW BY	R.C.E. NUMBER	SIGNATURE	DATE

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 128 Market Street, Suite 3E  
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 FILE NAME: F:\DW\PROJECTS\4758-FRONT STREET-CRESCENT CITY\2-MATERIALS.DWG



### MATERIALS LEGEND

	Decomposed Granite		8"-12" River Cobble
	Stabilized Decomposed Granite Path		2"-6" River Cobble
	Recycled Glass		Boardwalk
	Exposed Aggregate		Seatwall
			Concrete Wall

### SITE DETAIL KEYNOTES: PAVEMENTS

KEYNOTE	DETAIL / SHEET
1.1	Expansion Joint LPD-1
1.2	Control Joint LPD-1
1.3	Stamped Concrete LPD-1
1.4	Exposed Aggregate Conc LPD-1
1.5	Concrete Band LPD-1
1.6	Stabilize Decomposed Path LPD-1
1.7	Boulder in Paving LPD-1
1.8	Compass Paving LPD-1

### SITE DETAIL KEYNOTES: SITE WALLS/ ENCLOSURES

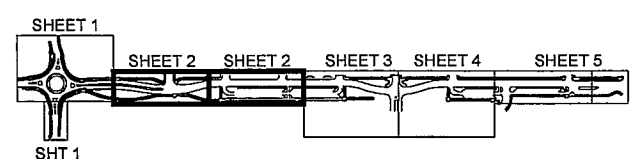
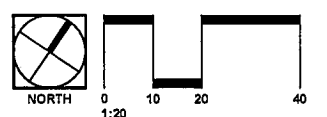
2.1	Seatwall Type 1 LPD-2
2.2	Seatwall Type 2 LPD-2
2.3	Gabion Box LPD-2
2.4	Retaining Wall LPD-2
2.5	Wall Finish LPD-2
2.6	Corten Planter LPD-2
2.7	Fence LPD-2
2.8	Fence Detail LPD-2

### SITE DETAIL KEYNOTES: PLANTING AND LANDSCAPE

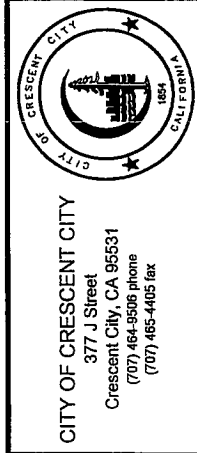
3.1	Landscape Steel Edging LPD-3
3.2	Decomposed Granite Mulch LPD-3
3.3	Tree Planting in Paving LPD-3
3.4	Shrub Planting LPD-3
3.5	Planting on Berm LPD-3
3.6	Tree Planting LPD-3
3.7	2"-6" River Cobble LPD-3
3.8	8"-12" River Cobble LPD-3
3.9	Recycled Glass LPD-3

### SITE DETAIL KEYNOTES: SITE SECTIONS AND ELEVATIONS

4.1	Fence # 1 LPD-4
4.2	Fence # 2 LPD-4
4.3	Fence # 3 LPD-4
4.4	Fence # 4 LPD-4
4.5	Fence # 5 LPD-5
4.6	Fence # 6 LPD-5
4.7	Concrete Wall Elevation LPD-5
4.8	Whale # 1 LPD-5
4.9	Whale # 2 and # 4 LPD-5
4.10	Whale # 3 LPD-5
4.11	Whale # 5 LPD-5



NO.	REVISION	DATE	APP.



FRONT STREET REVITALIZATION  
 MATERIALS PLAN  
 STATION RANGE 12+95 TO 23+8

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 CONSTRUCTION

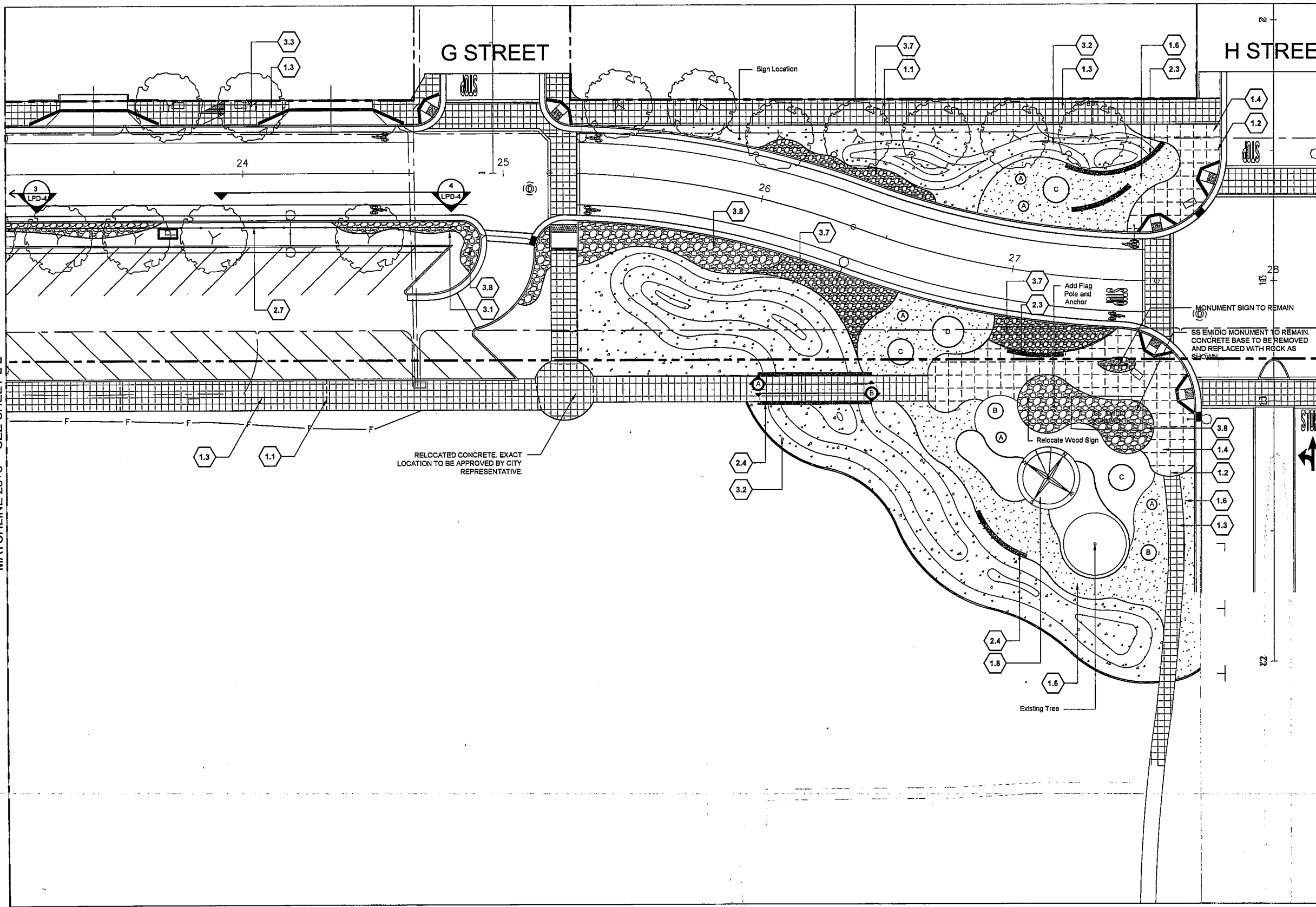
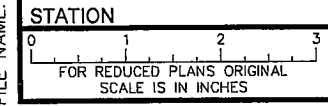
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DRAWN BY	ML
CHECKED BY	SS
DATE	7/9/2012
SCALE	1"=20'
JOB NO.	4758
DRAWING NUMBER	

M-2  
 SHEET NUMBER  
 94 OF 114

STATION	DESIGN OVERSIGHT	QUALITY CONTROL APPROVAL	DESIGNWORKSHOP
0 1 2 3 FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES	SUPERVISION BY _____ R.C.E. NUMBER _____ SIGNATURE _____ DATE _____	O.C. REVIEW BY _____ R.C.E. NUMBER _____ SIGNATURE _____ DATE _____	P.O. Box 5666 128 Market Street, Suite 3E Stalene, Nevada 89449-5666 (775) 588-5929 Facsimile (775) 588-1559 www.designworkshop.com

PLOT BY: SSTMICHEL PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: F:\DW\PROJECTS\4758-FRONT STREET-CRESCENT CITY\DW-CAD\L2-MATERIALS.DWG

MATCHLINE 23+8 SEE SHEET L-2



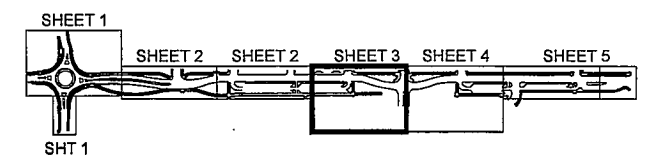
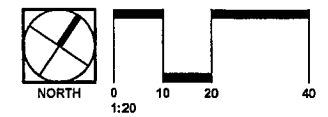
**MATERIALS LEGEND**

	Decomposed Granite		8"-12" River Cobble
	Stabilized Decomposed Granite Path		2"-6" River Cobble
	Recycled Glass		Boardwalk
	Exposed Aggregate		Seatwall
			Concrete Wall

**SITE DETAIL KEYNOTES: DETAIL / SHEET**

<b>1.0 PAVEMENTS</b>		
1.1 Expansion Joint	LPD-1	
1.2 Control Joint	LPD-1	
1.3 Stamped Concrete	LPD-1	
1.4 Exposed Aggregate Conc	LPD-1	
1.5 Concrete Band	LPD-1	
1.6 Stabilize Decomposed Path	LPD-1	
1.7 Boulder in Paving	LPD-1	
1.8 Compass Paving	LPD-1	
<b>2.0 SITE WALLS/ ENCLOSURES</b>		
2.1 Seatwall Type 1	LPD-2	
2.2 Seatwall Type 2	LPD-2	
2.3 Gation Box	LPD-2	
2.4 Retaining Wall	LPD-2	
2.5 Wall Finish	LPD-2	
2.6 Corlen Planter	LPD-2	
2.7 Fence	LPD-2	
2.8 Fence Detail	LPD-2	
<b>3.0 PLANTING AND LANDSCAPE</b>		
3.1 Landscape Steel Edging	LPD-3	
3.2 Decomposed Granite Mulch	LPD-3	
3.3 Tree Planting in Paving	LPD-3	
3.4 Shrub Planting	LPD-3	
3.5 Planting on Berm	LPD-3	
3.6 Tree Planting	LPD-3	
3.7 2"-6" River Cobble	LPD-3	
3.8 8"-12" River Cobble	LPD-3	
3.9 Recycled Glass	LPD-3	
<b>4.0 SITE SECTIONS AND ELEVATIONS</b>		
4.1 Fence # 1	LPD-4	
4.2 Fence # 2	LPD-4	
4.3 Fence # 3	LPD-4	
4.4 Fence # 4	LPD-4	
4.5 Fence # 5	LPD-5	
4.6 Fence # 6	LPD-5	
4.7 Concrete Wall Elevation	LPD-5	
4.8 Whale # 1	LPD-5	
4.9 Whale # 2 and # 4	LPD-5	
4.10 Whale # 3	LPD-5	
4.11 Whale # 5	LPD-5	

MATCHLINE 28+17 SEE SHEET L-4



NO.	REVISION	DATE	APP.



CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 464-9506 phone  
 (707) 465-4405 fax

**FRONT STREET REVITALIZATION  
 MATERIALS PLAN  
 STATION RANGE 23+8 TO 28+17**

FINAL SUBMITTAL  
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 CONSTRUCTION

DESIGN BY ML
DRAWN BY ML
CHECKED BY SS
DATE 7/9/2012
SCALE 1"=20'
JOB NO. 4758
DRAWING NUMBER

**M-3**

SHEET NUMBER  
 95 OF 114

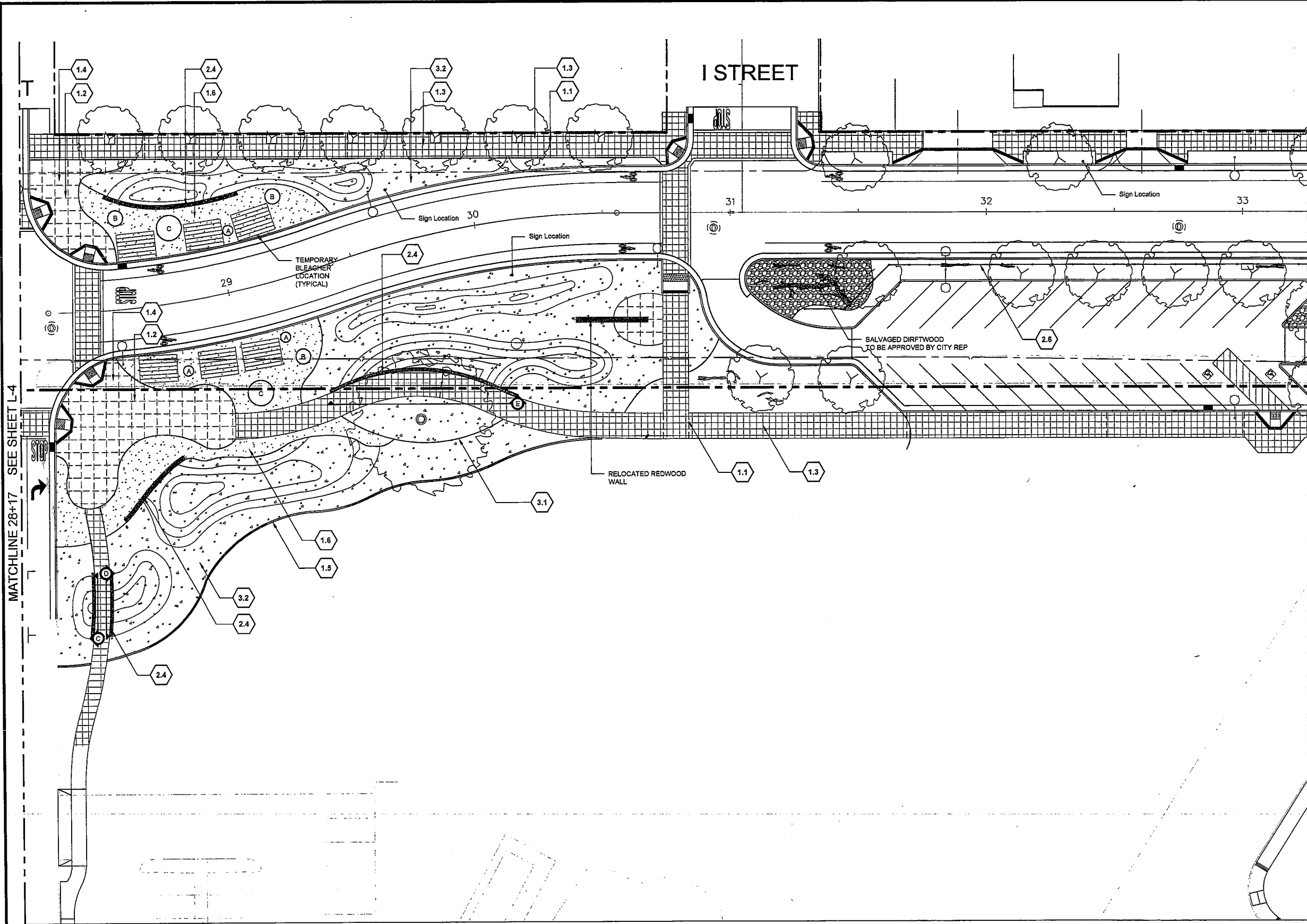
DESIGN OVERSIGHT				QUALITY CONTROL APPROVAL			
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE	Q.C. REVIEW BY	R.C.E. NUMBER	SIGNATURE	DATE

**DESIGNWORKSHOP**  
 P.O. Box 5666  
 128 Market Street, Suite 3E  
 Stateline, Nevada 89449-5666  
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PLOT BY: SSMICHEL PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: F:\DW\PROJECTS\4758-FRONT STREET-CRESCENT CITY\DW-CAD\L2-MATERIALS.DWG

MATCHLINE 28+17 SEE SHEET L-4



**MATERIALS LEGEND**

	Decomposed Granite		8"-12" River Cobble
	Stabilized Decomposed Granite Path		2" - 6" River Cobble
	Recycled Glass		Boardwalk
	Exposed Aggregate		Seatwall
			Concrete Wall

**SITE DETAIL KEYNOTES: DETAIL / SHEET**

<b>1.0 PAVEMENTS</b>		
1.1 Expansion Joint	LPD-1	
1.2 Control Joint	LPD-1	
1.3 Stamped Concrete	LPD-1	
1.4 Exposed Aggregate Conc	LPD-1	
1.5 Concrete Band	LPD-1	
1.6 Stabilize Decomposed Path	LPD-1	
1.7 Boulder in Paving	LPD-1	
1.8 Compass Paving	LPD-1	
<b>2.0 SITE WALLS/ ENCLOSURES</b>		
2.1 Seatwall Type 1	LPD-2	
2.2 Seatwall Type 2	LPD-2	
2.3 Gabion Box	LPD-2	
2.4 Retaining Wall	LPD-2	
2.5 Wall Finish	LPD-2	
2.6 Corian Planter	LPD-2	
2.7 Fence	LPD-2	
2.8 Fence Detail	LPD-2	
<b>3.0 PLANTING AND LANDSCAPE</b>		
3.1 Landscape Steel Edging	LPD-3	
3.2 Decomposed Granite Mulch	LPD-3	
3.3 Tree Planting in Paving	LPD-3	
3.4 Shrub Planting	LPD-3	
3.5 Planting on Berm	LPD-3	
3.6 Tree Planting	LPD-3	
3.7 2"-6" River Cobble	LPD-3	
3.8 8"-12" River Cobble	LPD-3	
3.9 Recycled Glass	LPD-3	
<b>4.0 SITE SECTIONS AND ELEVATIONS</b>		
4.1 Fence # 1	LPD-4	
4.2 Fence # 2	LPD-4	
4.3 Fence # 3	LPD-4	
4.4 Fence # 4	LPD-4	
4.5 Fence # 5	LPD-5	
4.6 Fence #6	LPD-5	
4.7 Concrete Wall Elevation	LPD-5	
4.8 Whale # 1	LPD-5	
4.9 Whale # 2 and # 4	LPD-5	
4.10 Whale # 3	LPD-5	
4.11 Whale #5	LPD-5	

MATCHLINE 33+25 SEE SHEET L-5

NO.	REVISION	DATE	APP.



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 Crescent City, CA 95531  
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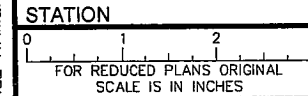
**FRONT STREET REVITALIZATION**  
**MATERIALS PLAN**  
 STATION RANGE 28+17 TO 33+25

FINAL SUBMITTAL  
 NOT FOR  
 CONSTRUCTION

DESIGN BY ML
DRAWN BY ML
CHECKED BY SS
DATE 7/9/2012
SCALE 1"=20'
JOB NO. 4758
DRAWING NUMBER

**M-4**

SHEET NUMBER  
 96 OF 114

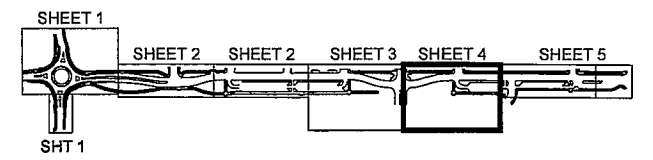


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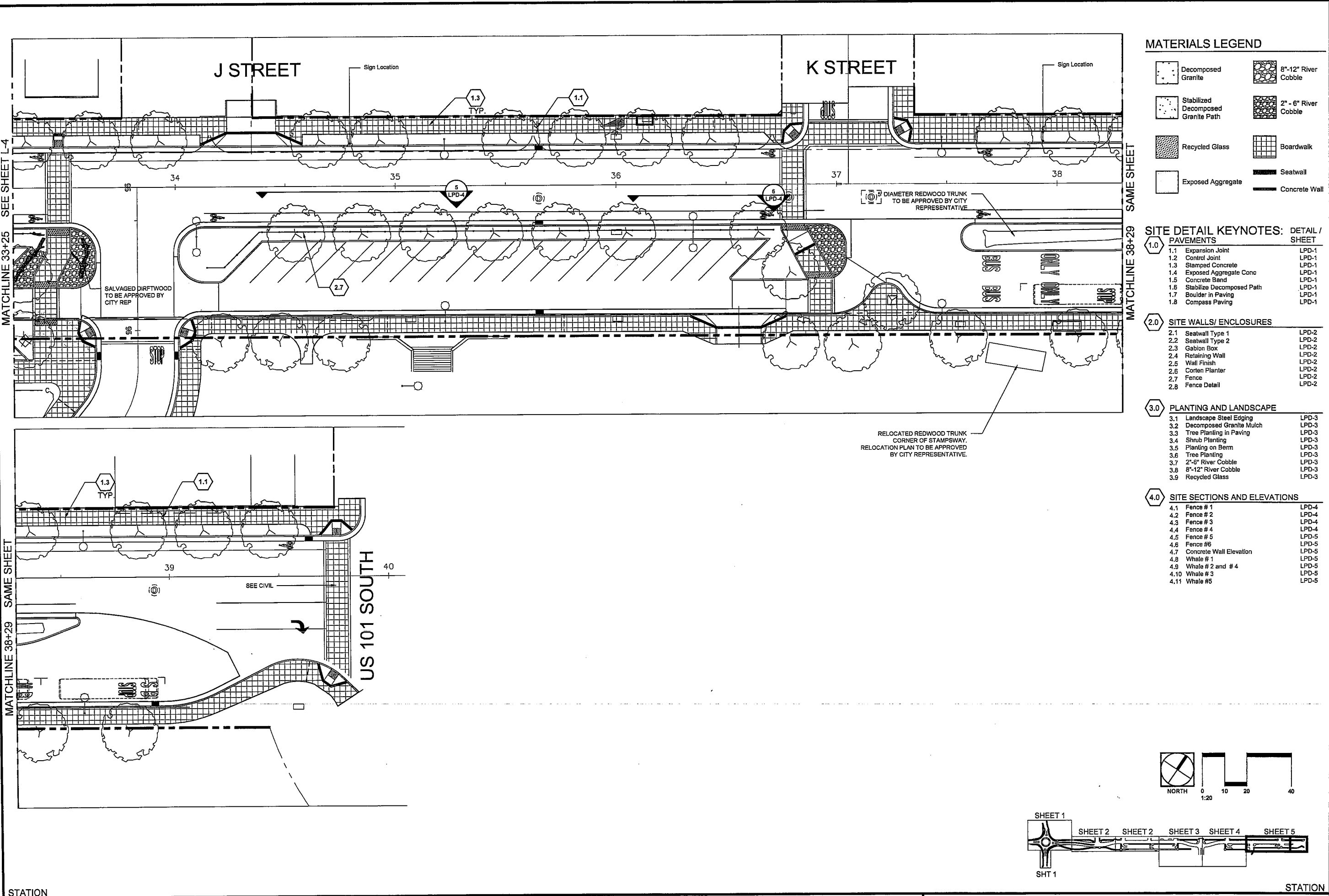
QUALITY CONTROL APPROVAL			
Q.C. REVIEW BY	R.C.E. NUMBER	SIGNATURE	DATE

**DESIGNWORKSHOP**

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 FILE NAME: F:\DW\PROJECTS\4758-FRONT STREET-CRESCENT CITY\DW-CAD\L2-MATERIALS.DWG




### MATERIALS LEGEND

	Decomposed Granite		8"-12" River Cobble
	Stabilized Decomposed Granite Path		2" - 6" River Cobble
	Recycled Glass		Boardwalk
	Exposed Aggregate		Seatwall
			Concrete Wall

### SITE DETAIL KEYNOTES: DETAIL / SHEET

<b>1.0 PAVEMENTS</b>		
1.1 Expansion Joint	LPD-1	
1.2 Control Joint	LPD-1	
1.3 Stamped Concrete	LPD-1	
1.4 Exposed Aggregate Conc	LPD-1	
1.5 Concrete Band	LPD-1	
1.6 Stabilize Decomposed Path	LPD-1	
1.7 Boulder in Paving	LPD-1	
1.8 Compass Paving	LPD-1	
<b>2.0 SITE WALLS/ ENCLOSURES</b>		
2.1 Seatwall Type 1	LPD-2	
2.2 Seatwall Type 2	LPD-2	
2.3 Gabion Box	LPD-2	
2.4 Retaining Wall	LPD-2	
2.5 Wall Finish	LPD-2	
2.6 Corten Planter	LPD-2	
2.7 Fence	LPD-2	
2.8 Fence Detail	LPD-2	
<b>3.0 PLANTING AND LANDSCAPE</b>		
3.1 Landscape Steel Edging	LPD-3	
3.2 Decomposed Granite Mulch	LPD-3	
3.3 Tree Planting in Paving	LPD-3	
3.4 Shrub Planting	LPD-3	
3.5 Planting on Berm	LPD-3	
3.6 Tree Planting	LPD-3	
3.7 2"-6" River Cobble	LPD-3	
3.8 8"-12" River Cobble	LPD-3	
3.9 Recycled Glass	LPD-3	
<b>4.0 SITE SECTIONS AND ELEVATIONS</b>		
4.1 Fence # 1	LPD-4	
4.2 Fence # 2	LPD-4	
4.3 Fence # 3	LPD-4	
4.4 Fence # 4	LPD-4	
4.5 Fence # 5	LPD-5	
4.6 Fence # 6	LPD-5	
4.7 Concrete Wall Elevation	LPD-5	
4.8 Whale # 1	LPD-5	
4.9 Whale # 2 and # 4	LPD-5	
4.10 Whale # 3	LPD-5	
4.11 Whale # 5	LPD-5	

NO.	REVISION	DATE	APP.



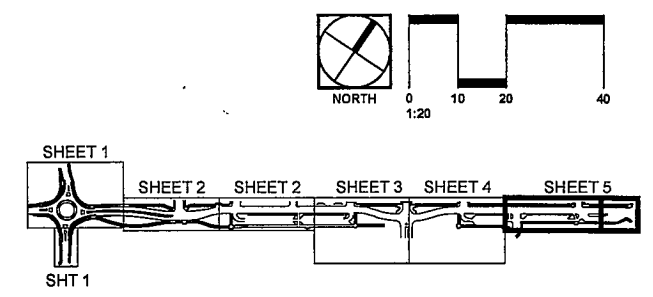
CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 464-8506 phone  
 (707) 465-4405 fax

**FRONT STREET REVITALIZATION**  
**MATERIALS PLANS**  
**STATION RANGE 33+25 TO 40**

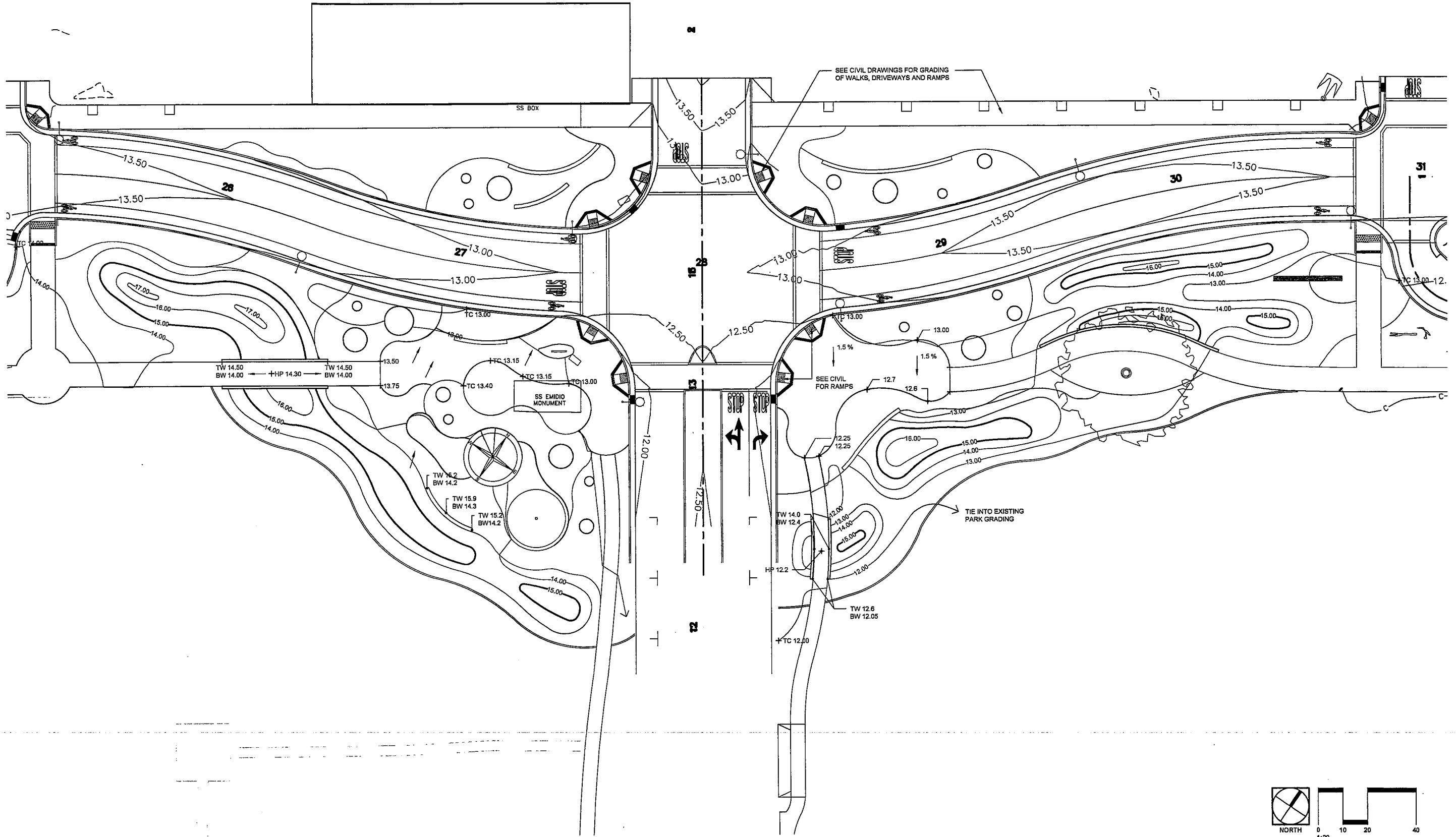
FINAL SUBMITTAL NOT FOR CONSTRUCTION

DESIGN BY ML
DRAWN BY ML
CHECKED BY SS
DATE 7/9/2012
SCALE 1"=20'
JOB NO. 4758
DRAWING NUMBER
M-5
SHEET NUMBER

STATION	DESIGN OVERSIGHT	QUALITY CONTROL APPROVAL	SHEET NUMBER
0 1 2 3	SUPERVISION BY _____ R.C.E. NUMBER _____ SIGNATURE _____ DATE _____	FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES	97 OF 114
		DESIGNWORKSHOP	



PLOT BY: SSTMICHEL PLOT DATE: Tuesday, July 10, 2012  
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NO.	REVISION	DATE	APP.

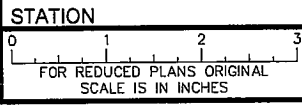


CITY OF CRESCENT CITY  
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 Crescent City, CA 95531  
 (707) 465-3916 phone  
 (707) 465-4405 fax

**FRONT STREET REVITALIZATION**  
**GRADING PLAN**  
**STATION RANGE 25+17 TO 31**

FINAL SUBMITTAL  
 NOT FOR  
 CONSTRUCTION

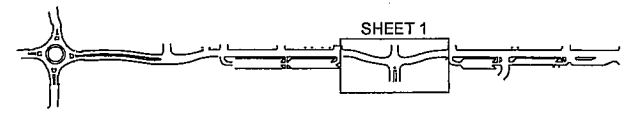
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DRAWN BY	SS
CHECKED BY	SN
DATE	7/9/2012
SCALE	1"=20'
JOB NO.	4758
DRAWING NUMBER	LG-1
SHEET NUMBER	98 OF 114



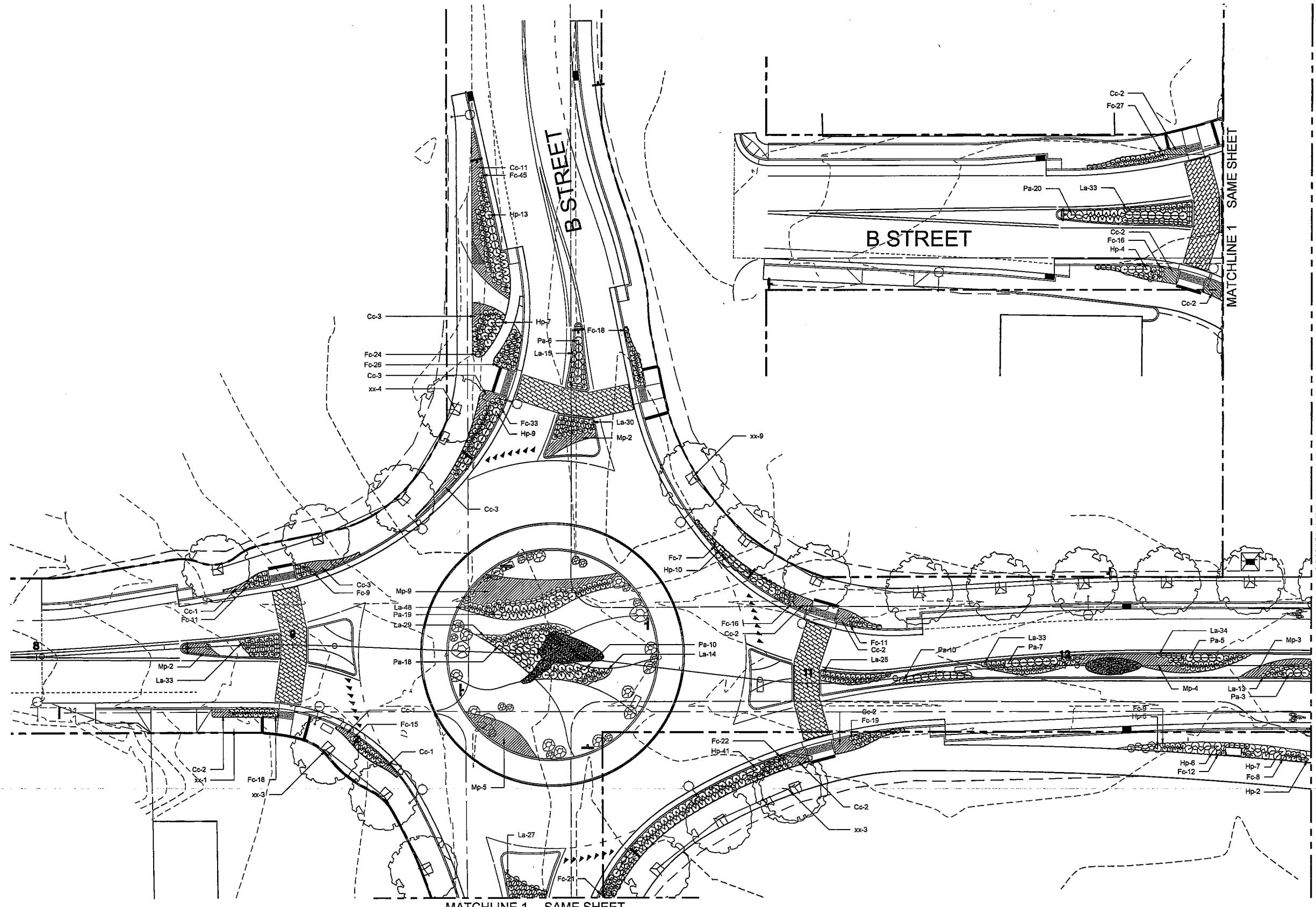
DESIGN OVERSIGHT			
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE

QUALITY CONTROL APPROVAL			
O.C. REVIEW BY	R.C.E. NUMBER	SIGNATURE	DATE

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 Facsimile (775) 588-1559  
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PLOT BY: SSMICHEL PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: F:\DWI\PROJECTS\4758-FRONT STREET-CRESCENT CITY\DW-CAD\3-PLANTING.DWG



Plant quantities shown here are for this sheet only. See sheet LP-5 for totals.

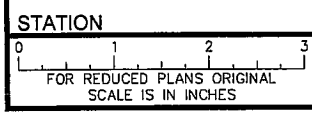
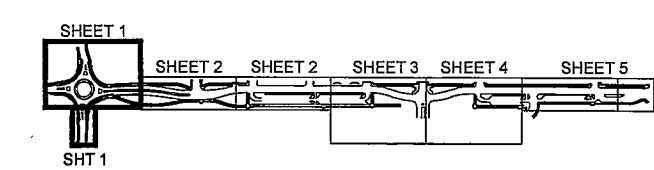
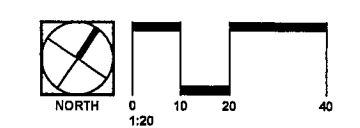
**PLANT LEGEND**

ABBR.	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY
<b>Ground Cover</b>				
Cc	Coprosma x kirkii	Creeping Mirror Plant	1 gal.	42
Cd	Cotoneaster dammeri	Cotoneaster	1 gal.	0
Lm	Lantana montevidensis	"white lighting"	1 gal.	0
Mp	Myoporum parvifolium	Creeping Myoporum	1 gal.	26
Vm	Vinca minor	Periwinkle	1 gal.	0
<b>GRASSES</b>				
Fc	Festuca californica	California Fescue	1 gal.	367
Ho	Helictotrichon sempervirens	Blue Oat Grass	1 gal.	0
Pa	Pennisetum alopecuroides	Fountain Grass	1 gal.	98
<b>SHRUBS</b>				
Ag	Abelia x grandiflora	"Sherwoodii" Glossy abelia	5 gal.	0
Ar	Arctostaphylos	Emerald Carpet	5 gal.	0
As	Artemisia stellerana	Dusty Miller	5 gal.	0
Ca	Cistus albidus	White leaved Rock Rose	5 gal.	0
Cp	Cistus x purpureus	Orchid Rock Rose	5 gal.	0
Hp	Hebe 'Patty's Purple'	Hebe 'Patty's Purple'	5 gal.	104
La	Lavandula angustifolia	English Lavender 'alba'	5 gal.	334
Ld	Lavandula dentata	French Lavender	5 gal.	0
Pm	Pinus mugo mugo	Mugo Pine	5 gal.	0
Pt	Pittosporum tobira	Wheeler's Dwarf	5 gal.	0
Ri	Raphiolepis indica	Jack Evans	5 gal.	0
<b>Perennials</b>				
Di	Diets iridioides	Fortnight Lily	5 gal.	0
Ec	Echium candicans	Pride of Madeira	5 gal.	0
Gn	Grevillea 'Noellii'	Grevillea	5 gal.	0
Vs	Veronica spicata	Red Fox	5 gal.	0
<b>TREES</b>				
TO BE DETERMINED xx				20

DCP	DATE	APP
REVISION	NO.	
		
CITY OF CRESCENT CITY 317 J Street Crescent City, CA 95531 (707) 465-5906 phone (707) 465-4405 fax		

**FRONT STREET REVITALIZATION**  
**PLANTING PLAN**  
**STATION RANGE 7+95 TO 12+95**

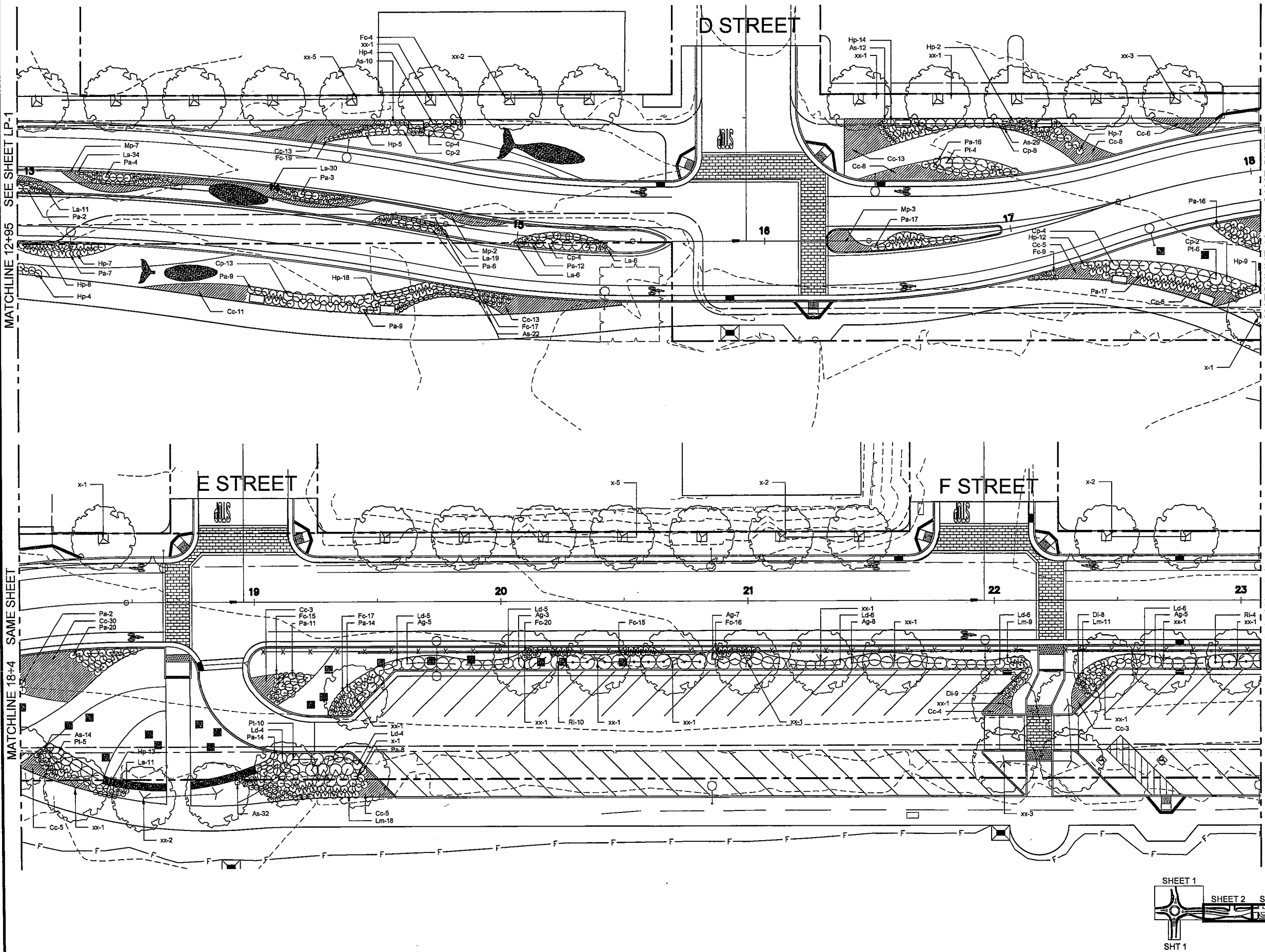
FINAL SUBMITTAL NOT FOR CONSTRUCTION
DESIGN BY SN
DRAWN BY SS
CHECKED BY SN
DATE 7/9/2012
SCALE 1"=20'
JOB NO. 4758
DRAWING NUMBER
LP-1
SHEET NUMBER
99 OF 114



DESIGN OVERSIGHT				QUALITY CONTROL APPROVAL			
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE	Q.C. REVIEW BY	R.C.E. NUMBER	SIGNATURE	DATE

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PLOT BY: SSMICHEL PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: F:\DW\PROJECTS\4758-FRONT STREET-CRESCENT CITY D-CAD\3-PLANTING.DWG



Plant quantities shown here are for this sheet only. See sheet LP-5 for totals.

**PLANT LEGEND**

ABBR.	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY
<b>Ground Cover</b>				
Cc	Coprosma x kirkii	Creeping Mirror Plant	1 gal.	133
Cd	Cotoneaster dammeri	Cotoneaster	1 gal.	0
Lm	Lantana montevidensis	"White Lighting"	1 gal.	38
Mp	Myoporum parvifolium	Creeping Myoporum	1 gal.	12
Vm	Vinca minor	Periwinkle	1 gal.	0
<b>GRASSES</b>				
Fc	Festuca californica	California Fescue	1 gal.	132
Hs	Helictotrichon sempervirens	Blue Oat Grass	1 gal.	0
Pa	Pennisetum alopecuroides	Fountain Grass	1 gal.	187
<b>SHRUBS</b>				
Ag	Abelia x grandiflora	"Sherwoodii" Glossy abelia	5 gal.	28
Ar	Arctostaphylos 'Emerald Carpet'	Emerald Carpet Manzanita	5 gal.	0
As	Artemisia stellerana	Dusty Miller	5 gal.	119
Ca	Cistus albidus	White leaved Rock Rose	5 gal.	0
Cp	Cistus x purpureus	Orchid Rock Rose	5 gal.	37
Hp	Hebe 'Patty's Purple'	Hebe 'Patty's Purple'	5 gal.	103
La	Lavandula angustifolia	English Lavender 'alba'	5 gal.	117
Ld	Lavandula dentata	French Lavender	5 gal.	36
Pm	Pinus mugo mugo	Mugo Pine	5 gal.	0
Pt	Pittosporum tobira	Wheeler's Dwarf	5 gal.	25
Ri	Raphiolepis indica	Jack Evans	5 gal.	14
<b>Perennials</b>				
Di	Diets iridiodes	Fortnight Lily	5 gal.	17
Ec	Echium candicans	Pride of Madeira	5 gal.	0
Gn	Grevillea 'Noellii'	Grevillea	5 gal.	0
Vs	Veronica spicata	Red Fox	5 gal.	0
<b>TREES</b>				
TO BE DETERMINED xx				42

DCP DATE APP  
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**FRONT STREET REVITALIZATION  
 PLANTING PLAN  
 STATION RANGE 12+95 TO 23+8**

FINAL SUBMITTAL  
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DESIGN BY SN  
 DRAWN BY SS  
 CHECKED BY SN  
 DATE 7/9/2012  
 SCALE 1"=20'  
 JOB NO. 4758  
 DRAWING NUMBER  
**LP-2**  
 SHEET NUMBER  
 100 OF 114

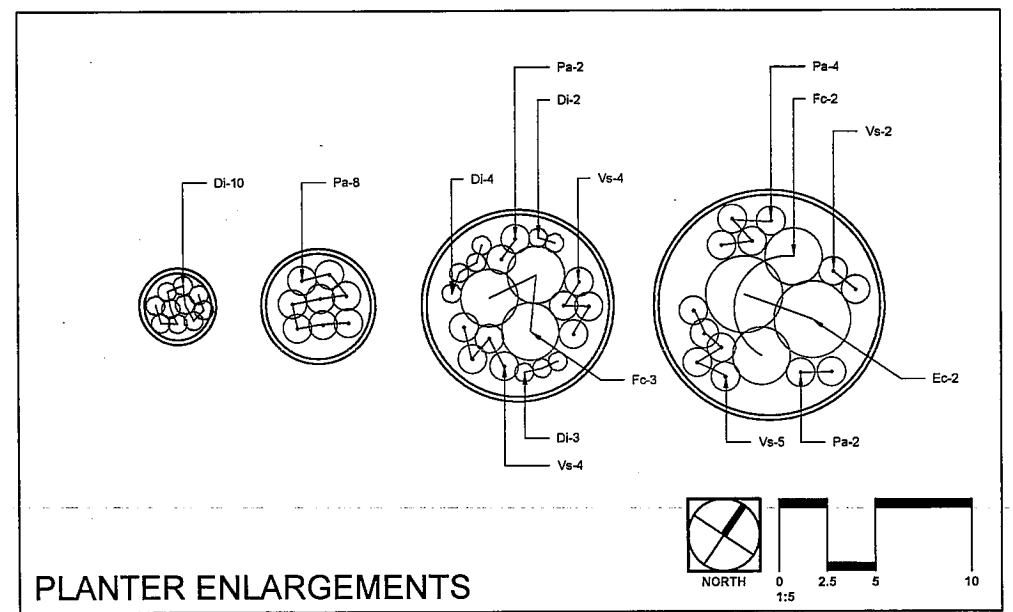
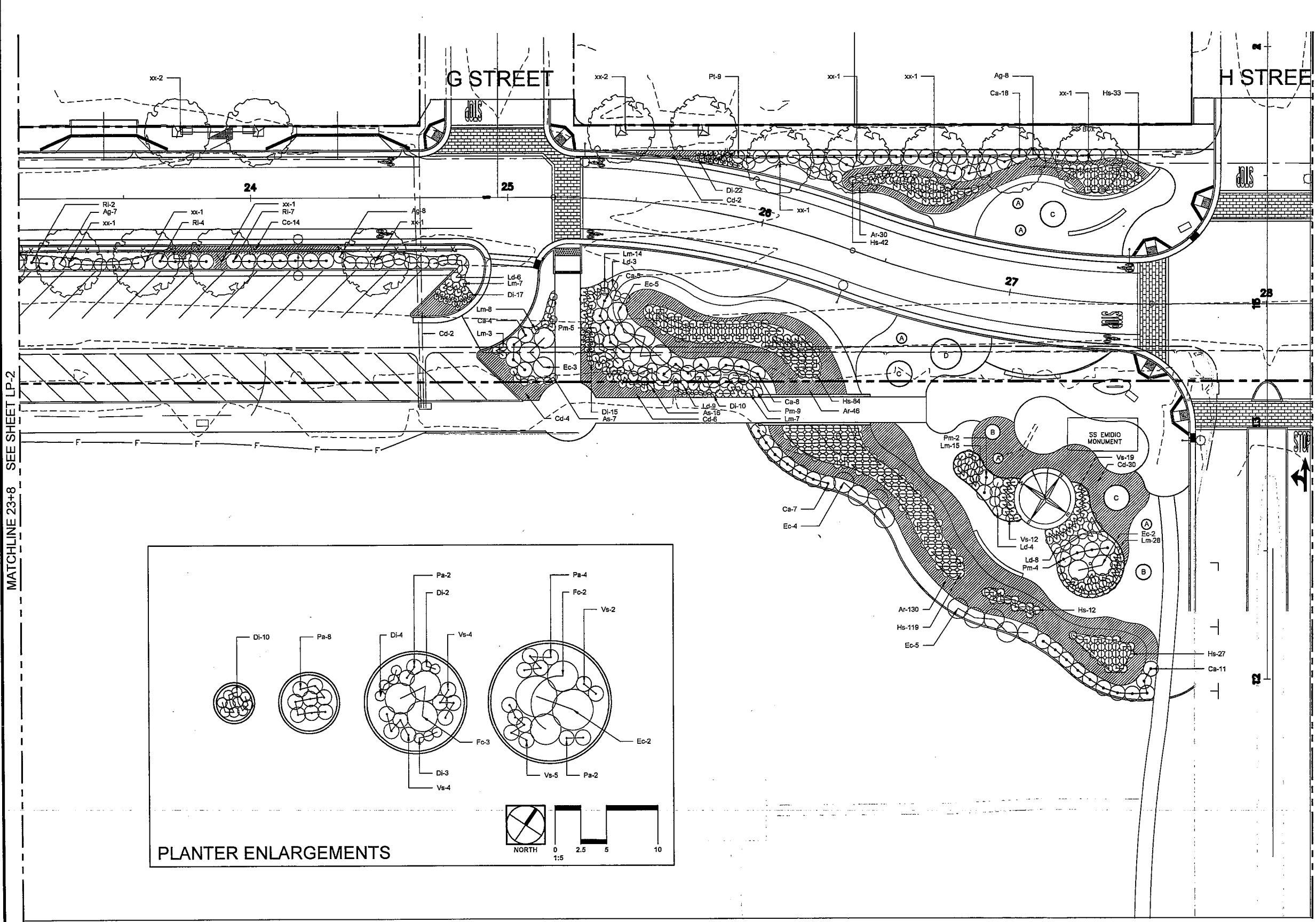
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DESIGN OVERSIGHT  
 SUPERVISION BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

QUALITY CONTROL APPROVAL  
 O.C. REVIEW BY \_\_\_\_\_ R.C.E. NUMBER \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

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 FILE NAME: F:\DW\PROJECTS\4758-FRONT STREET-CRESCENT CITY\3-CAD\3-PLANTING.DWG



Plant quantities shown here are for this sheet only. See sheet LP-5 for totals.

**PLANT LEGEND**

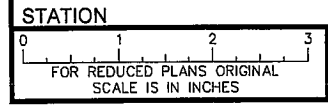
ABBR.	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY
<b>Ground Cover</b>				
Cc	Coprosma x kirilii	Creeping Mirror Plant	1 gal.	14
Cd	Cotoneaster dammeri	Cotoneaster	1 gal.	44
Lm	Lantana montevidensis	"white lighting"	1 gal.	82
Mp	Myoporum parvifolium	Creeping Myoporum	1 gal.	0
Vm	Vinca minor	Periwinkle	1 gal.	0
<b>GRASSES</b>				
Fc	Festuca californica	California Fescue	1 gal.	5
Hs	Helictotrichon sempervirens	Blue Oat Grass	1 gal.	317
Pa	Pennisetum alopecuroides	Fountain Grass	1 gal.	16
<b>SHRUBS</b>				
Ag	Abelia x grandiflora	"Sherwoodii" Glossy abelia	5 gal.	23
Ar	Arctostaphylos 'Emerald Carpet'	Emerald Carpet Manzanita	5 gal.	106
As	Artemisia stellerana	Dusty Miller	5 gal.	23
Ca	Cistus albidus	White leaved Rock Rose	5 gal.	53
Cp	Cistus x purpureus	Orchid Rock Rose	5 gal.	0
Hp	Hebe 'Patty's Purple'	Hebe 'Patty's Purple'	5 gal.	0
La	Lavandula angustifolia	English Lavender 'alba'	5 gal.	0
Ld	Lavandula dentata	French Lavender	5 gal.	30
Pm	Pinus mugo mugo	Mugo Pine	5 gal.	20
Pt	Pittosporum tobira	Wheeler's Dwarf	5 gal.	9
Ri	Raphiolepis indica	Jack Evans	5 gal.	13
<b>Perennials</b>				
Di	Dietes iridioides	Fortnight Lily	5 gal.	83
Ec	Echium candicans	Pride of Madeira	5 gal.	21
Gn	Grevillea 'Noellii'	Grevillea	5 gal.	0
Vs	Veronica spicata	Red Fox	5 gal.	46
<b>TREES</b>				
TO BE DETERMINED xx				12

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 CITY OF CRESCENT CITY  
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**FRONT STREET REVITALIZATION  
 LANDSCAPING PLAN  
 STATION RANGE 23+8 TO 28+17**

FINAL SUBMITTAL  
 NOT FOR  
 CONSTRUCTION

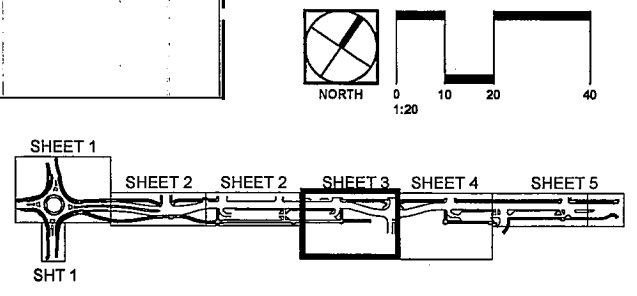
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 DRAWN BY SS  
 CHECKED BY SN  
 DATE 7/9/2012  
 SCALE 1"=20'  
 JOB NO. 4758  
 DRAWING NUMBER  
**LP-3**  
 SHEET NUMBER  
 101 OF 114



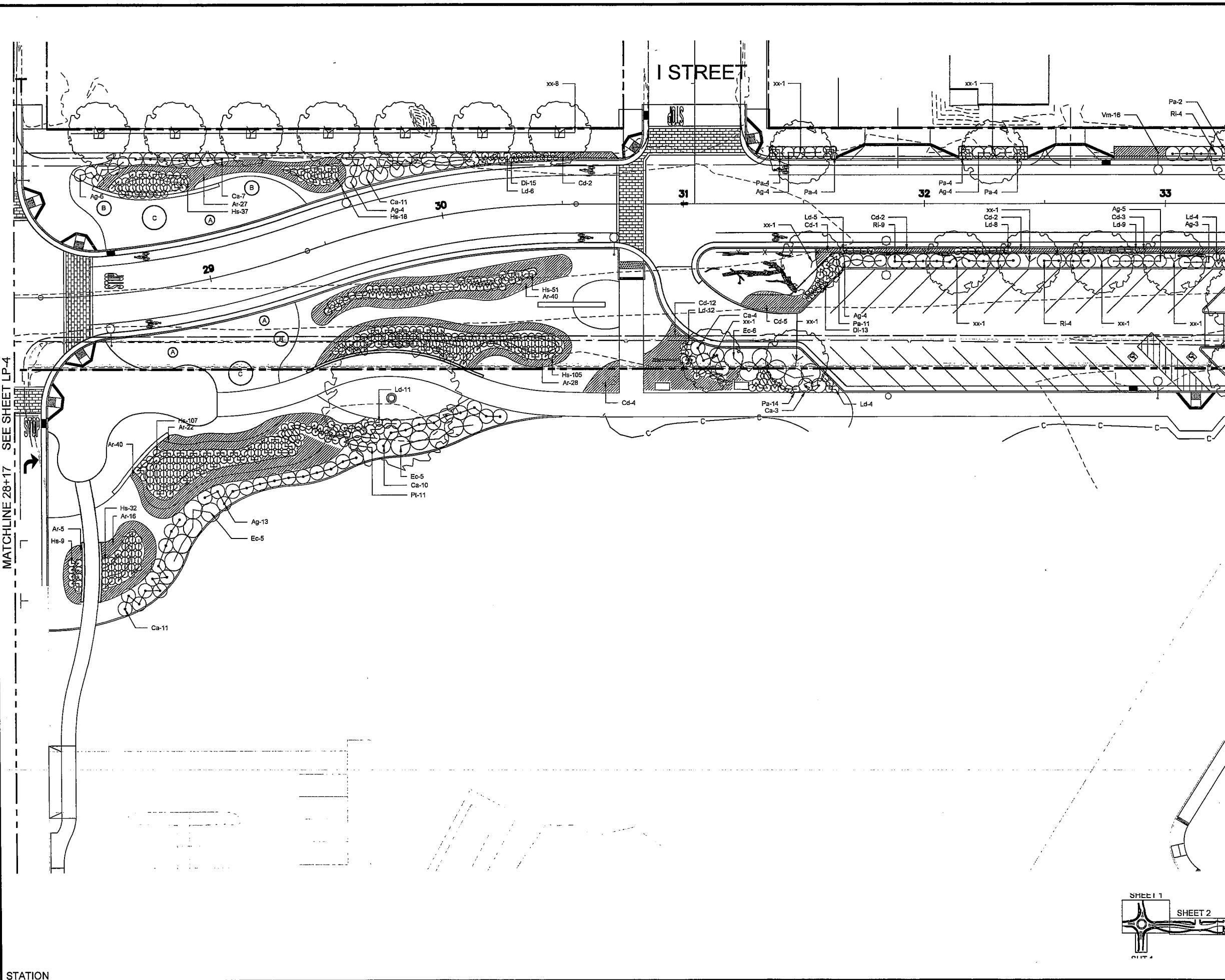
DESIGN OVERSIGHT		QUALITY CONTROL APPROVAL	
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE

DESIGN OVERSIGHT		QUALITY CONTROL APPROVAL	
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE

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 FILE NAME: F:\DW\PROJECTS\4758-FRONT STREET-CRESCENT CITY\DW-CAD\L3-PLANTING.DWG



Plant quantities shown here are for this sheet only. See sheet LP-5 for totals.

**PLANT LEGEND**

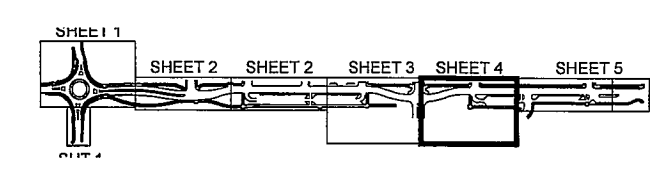
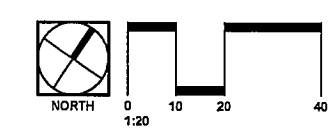
ABBR.	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY
<b>Ground Cover</b>				
Cc	Coprosma x kirkii	Creeping Mirror Plant	1 gal.	0
Cd	Coloneaster dammeri	Coloneaster	1 gal.	31
Lm	Lantana montevidensis	"White lighting"	1 gal.	0
Mp	Myoporum parvifolium	Creeping Myoporum	1 gal.	0
Vm	Vinca minor	Periwinkle	1 gal.	16
<b>GRASSES</b>				
Fc	Festuca californica	California Fescue	1 gal.	0
Hs	Helictotrichon sempervirens	Blue Oat Grass	1 gal.	359
Pa	Pennisetum alopecuroides	Fountain Grass	1 gal.	43
<b>SHRUBS</b>				
Ag	Abelia x grandiflora	"Sherwoodii" Glossy abelia	5 gal.	43
Ar	Arctostaphylos 'Emerald Carpet'	Emerald Carpet Manzanita	5 gal.	178
As	Artemisia stellerana	Dusty Miller	5 gal.	0
Ca	Cistus albidus	White leaved Rock Rose	5 gal.	46
Cp	Cistus x purpureus	Orchid Rock Rose	5 gal.	0
Hp	Hebe 'Patty's Purple'	Hebe 'Patty's Purple'	5 gal.	0
La	Lavandula angustifolia	English Lavender 'alba'	5 gal.	0
Ld	Lavandula dentata	French Lavender	5 gal.	59
Pm	Pinus mugo mugo	Mugo Pine	5 gal.	0
Pt	Pittosporum tobira	Wheeler's Dwarf	5 gal.	11
Ri	Rhaphiolepis indica	Jack Evans	5 gal.	17
<b>Perennials</b>				
Di	Diets iridoides	Fortnight Lily	5 gal.	28
Ec	Echium candicans	Pride of Madeira	5 gal.	16
Gn	Grevillea 'Noellii'	Grevillea	5 gal.	0
Vs	Veronica spicata	Red Fox	5 gal.	0
<b>TREES</b>				
TO BE DETERMINED xx				17

DCP	DATE	APP
REVISION	NO.	



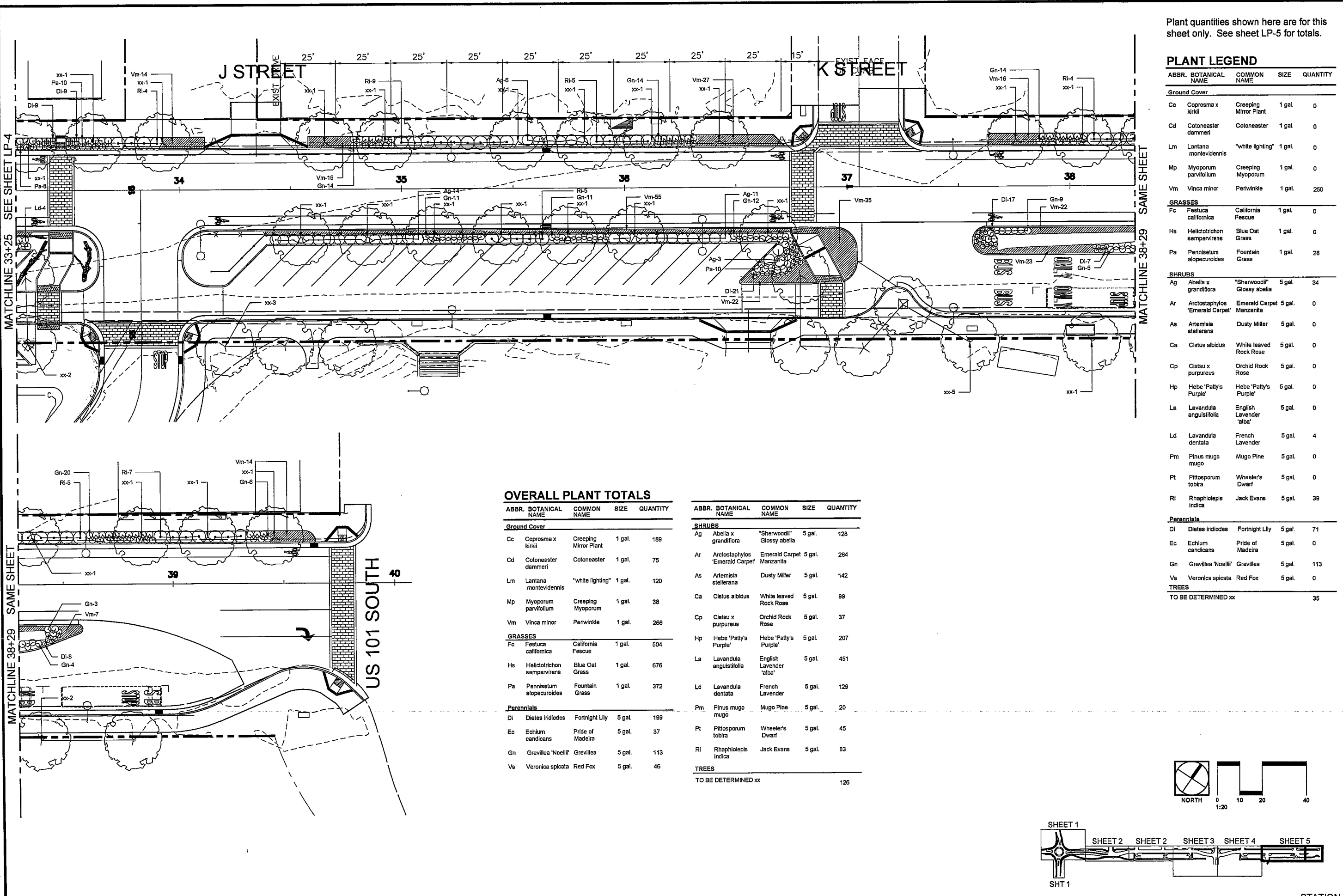
**FRONT STREET REVITALIZATION  
 PLANTING PLAN  
 STATION RANGE 28+17 TO 33+25**

FINAL SUBMITTAL NOT FOR CONSTRUCTION
DESIGN BY SN
DRAWN BY SS
CHECKED BY SN
DATE 7/9/2012
SCALE 1"=20'
JOB NO. 4758
DRAWING NUMBER <b>LP-4</b>
SHEET NUMBER 102 OF 114



STATION 0 1 2 3	DESIGN OVERSIGHT R.C.E. NUMBER SIGNATURE DATE	QUALITY CONTROL APPROVAL R.C.E. NUMBER SIGNATURE DATE	DESIGNWORKSHOP P.O. Box 5666 (775) 588-5929 128 Market Street, Suite 3E Facsimile (775) 588-1559 Statenline, Nevada 89449-5666 www.designworkshop.com
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PLOT BY: SSTMICHEL PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: F:\DWI\PROJECTS\4758-FRONT STREET-CRESCENT CITY\3-CAD\3-PLANTING.DWG



Plant quantities shown here are for this sheet only. See sheet LP-5 for totals.

**PLANT LEGEND**

ABBR.	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY
<b>Ground Cover</b>				
Cc	Coprosma x kirkii	Creeping Mirror Plant	1 gal.	0
Cd	Coloneaster dammeri	Coloneaster	1 gal.	0
Lm	Lantana montevidensis	"White Lighting"	1 gal.	0
Mp	Myoporum parvifolium	Creeping Myoporum	1 gal.	0
Vm	Vinca minor	Periwinkle	1 gal.	250
<b>GRASSES</b>				
Fc	Festuca californica	California Fescue	1 gal.	0
Hs	Helictotrichon sempervirens	Blue Oat Grass	1 gal.	0
Pa	Pennisetum alopecuroides	Fountain Grass	1 gal.	28
<b>SHRUBS</b>				
Ag	Abelia x grandiflora	"Sherwoodii" Glossy abelia	5 gal.	34
Ar	Arctostaphylos 'Emerald Carpet'	Emerald Carpet Manzanita	5 gal.	0
As	Artemisia stellerana	Dusty Miller	5 gal.	0
Ca	Cistus albidus	White leaved Rock Rose	5 gal.	0
Cp	Cistus x purpureus	Orchid Rock Rose	5 gal.	0
Hp	Hebe 'Patty's Purple'	Hebe 'Patty's Purple'	5 gal.	0
La	Lavandula angustifolia	English Lavender 'alba'	5 gal.	0
Ld	Lavandula dentata	French Lavender	5 gal.	4
Pm	Pinus mugo mugo	Mugo Pine	5 gal.	0
Pt	Pittosporum tobira	Wheeler's Dwarf	5 gal.	0
Ri	Raphiolepis indica	Jack Evans	5 gal.	39
<b>Perennials</b>				
Di	Diets iridoides	Fortnight Lily	5 gal.	71
Ec	Echium candicans	Pride of Madeira	5 gal.	0
Gn	Grevillea 'Noellii'	Grevillea	5 gal.	113
Vs	Veronica spicata	Red Fox	5 gal.	0
<b>TREES</b>				
TO BE DETERMINED xx				35

**OVERALL PLANT TOTALS**

ABBR.	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY
<b>Ground Cover</b>				
Cc	Coprosma x kirkii	Creeping Mirror Plant	1 gal.	189
Cd	Coloneaster dammeri	Coloneaster	1 gal.	75
Lm	Lantana montevidensis	"White Lighting"	1 gal.	120
Mp	Myoporum parvifolium	Creeping Myoporum	1 gal.	38
Vm	Vinca minor	Periwinkle	1 gal.	266
<b>GRASSES</b>				
Fc	Festuca californica	California Fescue	1 gal.	504
Hs	Helictotrichon sempervirens	Blue Oat Grass	1 gal.	676
Pa	Pennisetum alopecuroides	Fountain Grass	1 gal.	372
<b>Perennials</b>				
Di	Diets iridoides	Fortnight Lily	5 gal.	189
Ec	Echium candicans	Pride of Madeira	5 gal.	37
Gn	Grevillea 'Noellii'	Grevillea	5 gal.	113
Vs	Veronica spicata	Red Fox	5 gal.	46
<b>SHRUBS</b>				
Ag	Abelia x grandiflora	"Sherwoodii" Glossy abelia	5 gal.	128
Ar	Arctostaphylos 'Emerald Carpet'	Emerald Carpet Manzanita	5 gal.	284
As	Artemisia stellerana	Dusty Miller	5 gal.	142
Ca	Cistus albidus	White leaved Rock Rose	5 gal.	99
Cp	Cistus x purpureus	Orchid Rock Rose	5 gal.	37
Hp	Hebe 'Patty's Purple'	Hebe 'Patty's Purple'	5 gal.	207
La	Lavandula angustifolia	English Lavender 'alba'	5 gal.	451
Ld	Lavandula dentata	French Lavender	5 gal.	129
Pm	Pinus mugo mugo	Mugo Pine	5 gal.	20
Pt	Pittosporum tobira	Wheeler's Dwarf	5 gal.	45
Ri	Raphiolepis indica	Jack Evans	5 gal.	83
<b>TREES</b>				
TO BE DETERMINED xx				126

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 NO. DATE

CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
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FRONT STREET REVITALIZATION  
 PLANTING PLAN  
 STATION RANGE 33+25 TO 40

FINAL SUBMITTAL  
 NOT FOR  
 CONSTRUCTION

DESIGN BY SN  
 DRAWN BY SS  
 CHECKED BY SN  
 DATE 7/9/2012  
 SCALE 1"=20'  
 JOB NO. 4758  
 DRAWING NUMBER  
**LP-5**  
 SHEET NUMBER  
 103 OF 114

STATION 0 1 2 3  
 DESIGN OVERSIGHT  
 SUPERVISION BY R.C.E. NUMBER SIGNATURE DATE

QUALITY CONTROL APPROVAL  
 R.C.E. NUMBER SIGNATURE DATE

DESIGNWORKSHOP  
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 Stateline, Nevada 89449-5666  
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PLOT BY: SSM/ML/ML PLO/DATE: Tuesday, July 10, 2012 10:00 AM  
 FILE NAME: F:\DWG\PROJECTS\4758-FRONT STREET-CRESCENT CITY\DWG\LPD-SITE DETAILS.DWG

**SITE DETAIL**

KEYNOTES: PAVEMENTS	DETAIL / SHEET
1.1 Expansion Joint	LPD-1
1.2 Control Joint	LPD-1
1.3 Stamped Concrete	LPD-1
1.4 Exposed Aggregate Conc	LPD-1
1.5 Concrete Band	LPD-1
1.6 Stabilize Decomposed Path	LPD-1
1.7 Boulder in Paving	LPD-1
1.8 Compass Paving	LPD-1

SITE WALLS/ ENCLOSURES	DETAIL / SHEET
2.1 Seatwall Type 1	LPD-2
2.2 Seatwall Type 2	LPD-2
2.3 Retention Box	LPD-2
2.4 Retaining Wall	LPD-2
2.5 Wall Finish	LPD-2
2.6 Corten Planter	LPD-2
2.7 Fence	LPD-2
2.8 Fence Detail	LPD-2

PLANTING AND LANDSCAPE	DETAIL / SHEET
3.1 Landscape Sisel Edging	LPD-3
3.2 Decomposed Granite Mulch	LPD-3
3.3 Tree Planting in Paving	LPD-3
3.4 Shrub Planting	LPD-3
3.5 Planting on Berm	LPD-3
3.6 Tree Planting	LPD-3
3.7 2"-6" River Cobble	LPD-3
3.8 8"-12" River Cobble	LPD-3
3.9 Recycled Glass	LPD-3

SITE SECTIONS AND ELEVATIONS	DETAIL / SHEET
4.1 Fence # 1	LPD-4
4.2 Fence # 2	LPD-4
4.3 Fence # 3	LPD-4
4.4 Fence # 4	LPD-4
4.5 Fence # 5	LPD-4
4.6 Fence # 6	LPD-4
4.7 Concrete Wall Elevation	LPD-5
4.8 Whale # 1	LPD-5
4.9 Whale # 2 and # 4	LPD-5
4.10 Whale # 3	LPD-5
4.11 Whale # 5	LPD-5



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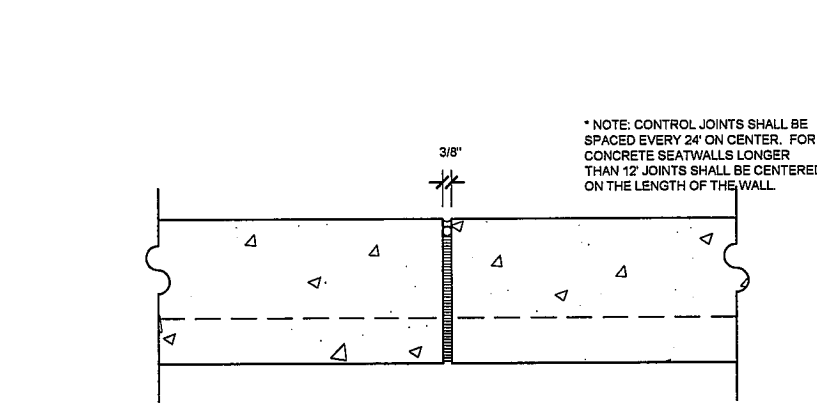
**FRONT STREET REVITALIZATION**  
**LANDSCAPE DETAILS**

FINAL SUBMITTAL  
NOT FOR  
CONSTRUCTION

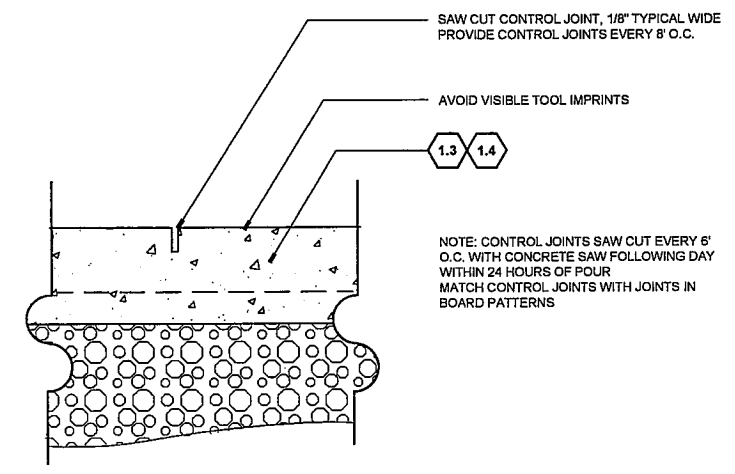
DESIGN BY	ML
DRAWN BY	ML
CHECKED BY	SN
DATE	7/9/2012
SCALE	
JOB NO.	4758
DRAWING NUMBER	

**LPD-1**

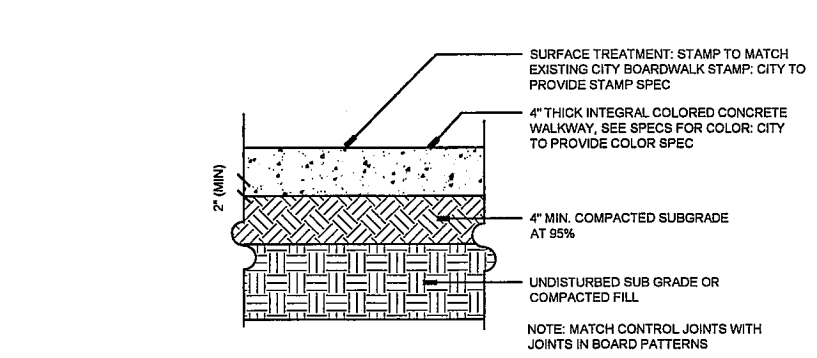
SHEET NUMBER  
104 OF 114



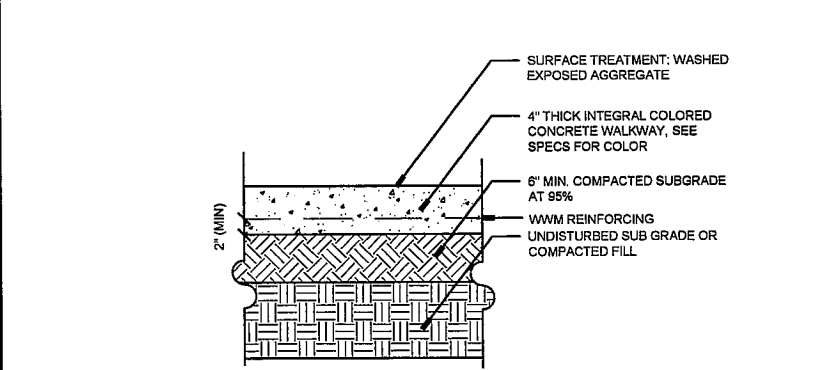
**1 Expansion Joint** 1"=1'



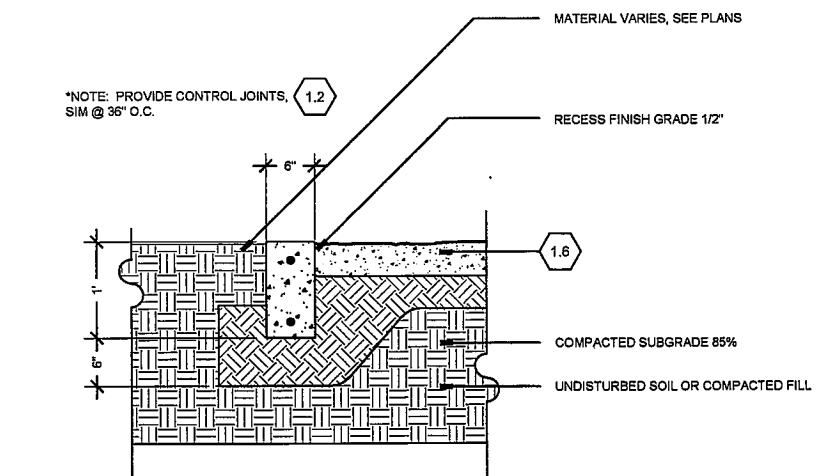
**2 Control Joint** 3"=1'



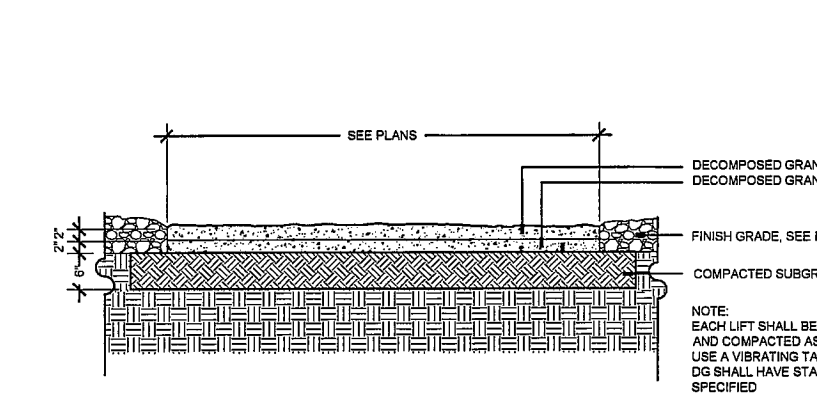
**3 Stamped Concrete** 1"=1'



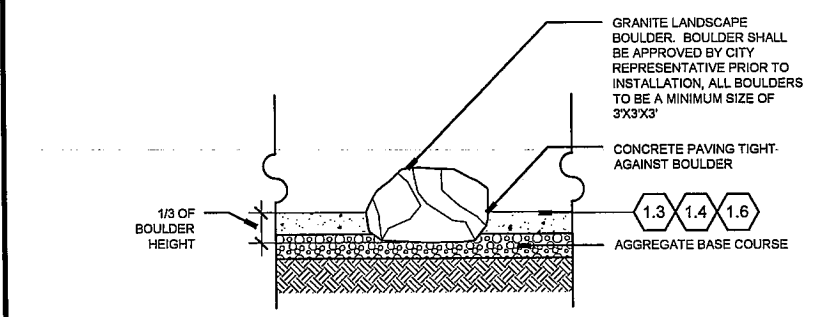
**4 Exposed Aggregate Concrete** 1"=1'



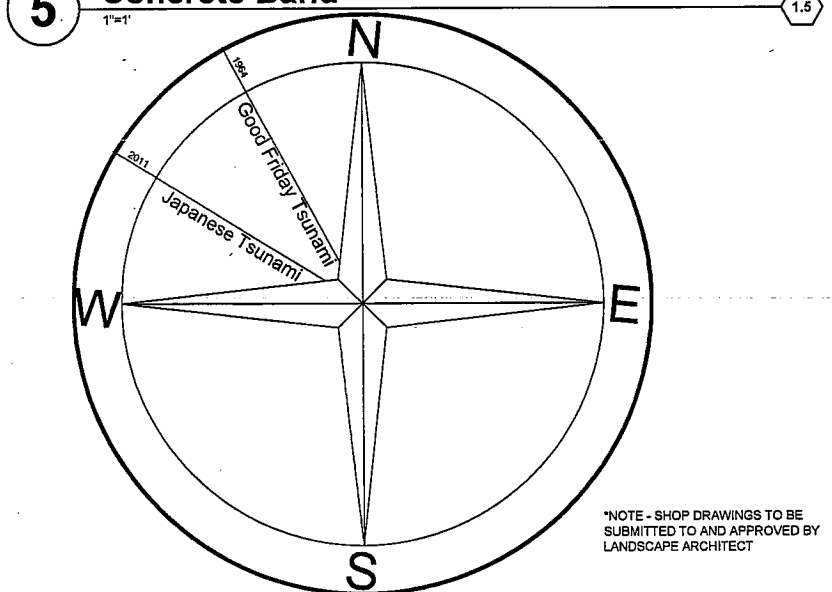
**5 Concrete Band** 1"=1'



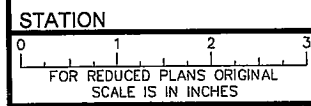
**6 Stabilized Decomposed Granite Path** 3/4"=1'



**7 BOULDER IN PAVING** 1/2"=1'



**8 COMPASS PAVING** 1/2"=1'



DESIGN OVERSIGHT				QUALITY CONTROL APPROVAL			
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE	Q.C. REVIEW BY	R.C.E. NUMBER	SIGNATURE	DATE

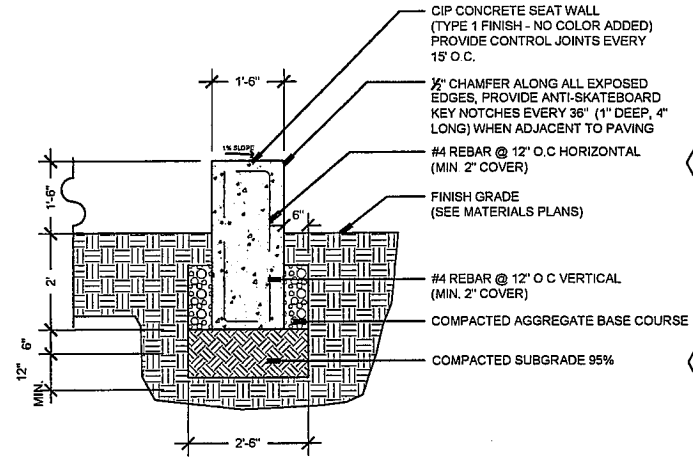
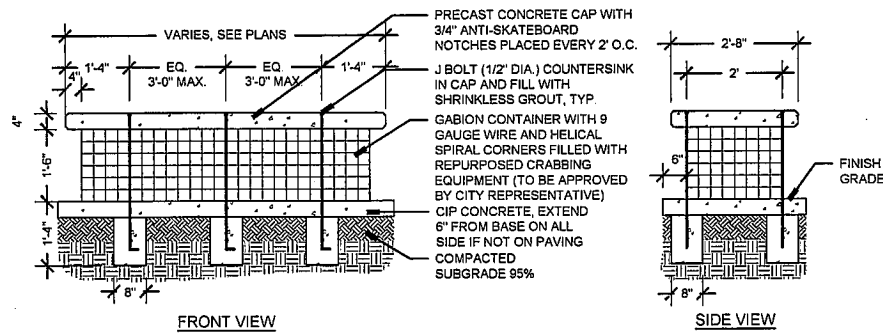
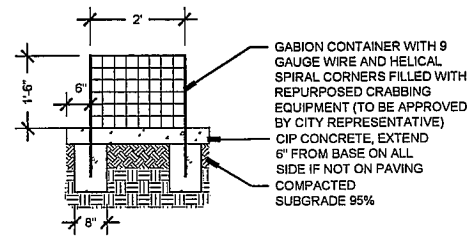
**DESIGNWORKSHOP**

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 128 Market Street, Suite 3E  
 Stateline, Nevada 89449-5666

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STATION

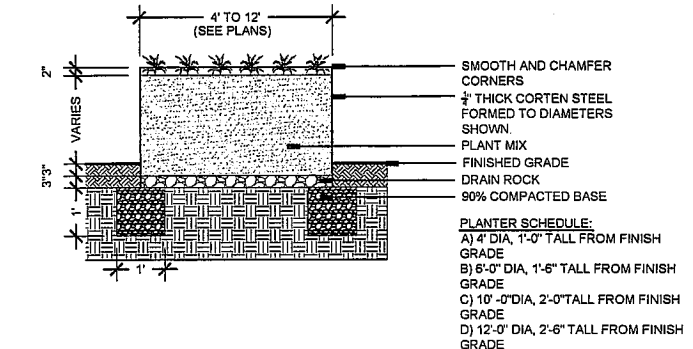
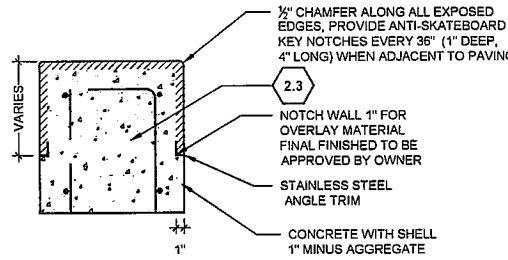
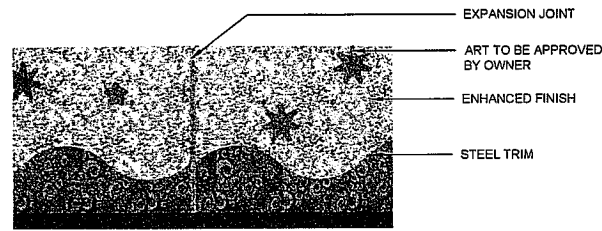
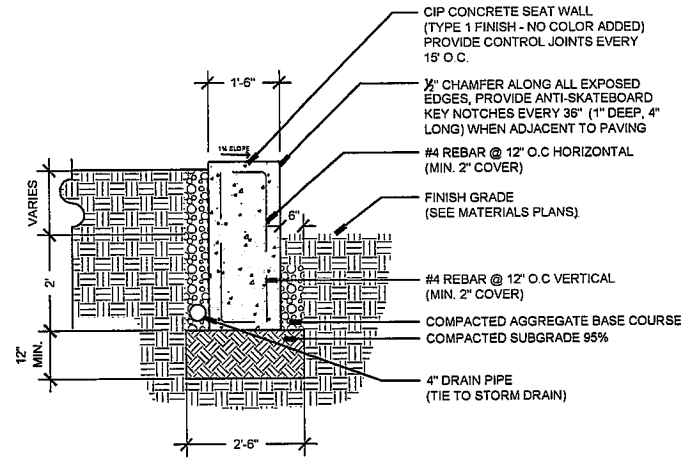
STATION



**1 Gabion Box**  
1/2"=1'

**2 Seatwall Type 1**  
1/2"=1'

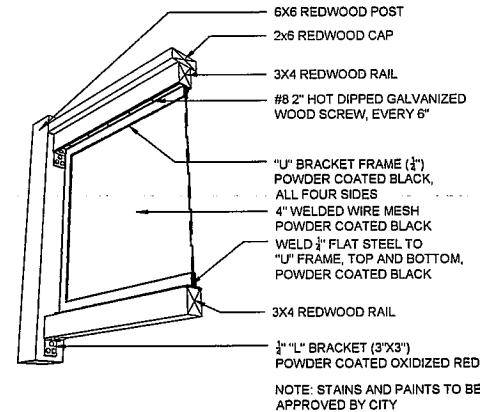
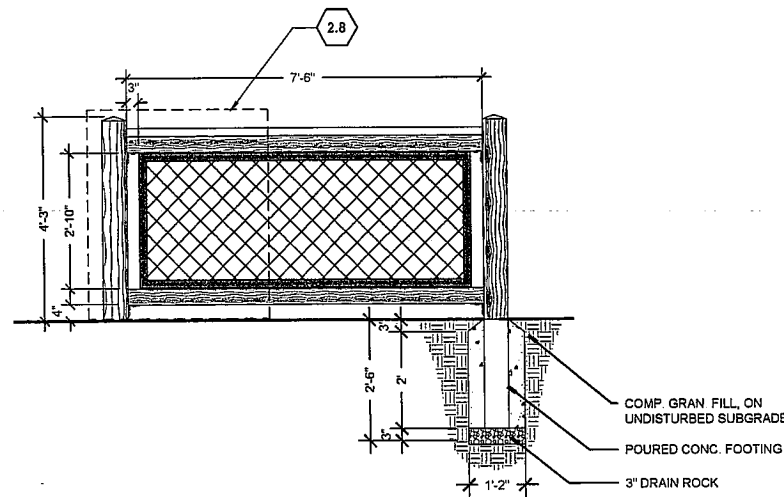
**3 Seatwall Type 2**  
1"=1/2'



**4 Retaining Wall**  
1/2"=1'

**5 Wall Finish**  
1"=1'

**6 Corten Planter**  
1/2"=1'



**7 Fence**  
1/2"=1'

**8 Fence Detail**  
NTS

**SITE DETAIL**

KEYNOTES: PAVEMENTS	DETAIL / SHEET
1.1 Expansion Joint	LPD-1
1.2 Control Joint	LPD-1
1.3 Stamped Concrete	LPD-1
1.4 Exposed Aggregate Conc	LPD-1
1.5 Concrete Band	LPD-1
1.6 Stabilize Decomposed Path	LPD-1
1.7 Boulder in Paving	LPD-1
1.8 Compass Paving	LPD-1

**2.0 SITE WALLS/ ENCLOSURES**

2.1 Seatwall Type 1	LPD-2
2.2 Seatwall Type 2	LPD-2
2.3 Gabion Box	LPD-2
2.4 Retaining Wall	LPD-2
2.5 Wall Finish	LPD-2
2.6 Corten Planter	LPD-2
2.7 Fence	LPD-2
2.8 Fence Detail	LPD-2

**3.0 PLANTING AND LANDSCAPE**

3.1 Landscape Steel Edging	LPD-3
3.2 Decomposed Granite Mulch	LPD-3
3.3 Tree Planting in Paving	LPD-3
3.4 Shrub Planting	LPD-3
3.5 Planting on Berm	LPD-3
3.6 Tree Planting	LPD-3
3.7 2"-6" River Cobble	LPD-3
3.8 8"-12" River Cobble	LPD-3
3.9 Recycled Glass	LPD-3

**4.0 SITE SECTIONS AND ELEVATIONS**

4.1 Fence # 1	LPD-4
4.2 Fence # 2	LPD-4
4.3 Fence # 3	LPD-4
4.4 Fence # 4	LPD-4
4.5 Fence # 5	LPD-4
4.6 Fence # 6	LPD-4
4.7 Concrete Wall Elevation	LPD-5
4.8 Whale # 1	LPD-5
4.9 Whale # 2 and # 4	LPD-5
4.10 Whale # 3	LPD-5
4.11 Whale # 5	LPD-5

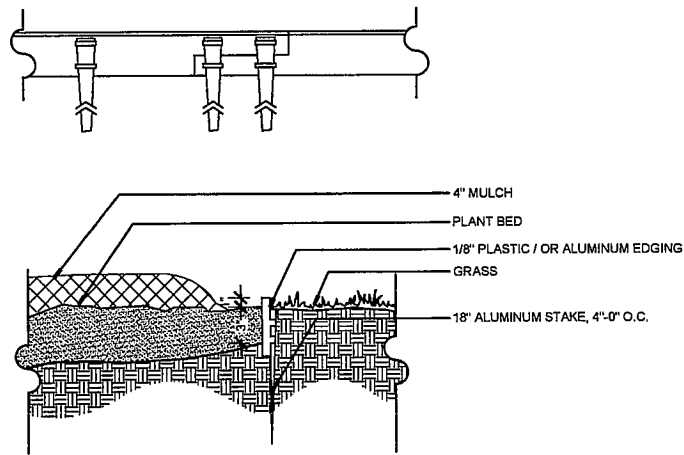
CITY OF CRESCENT CITY  
377 J Street  
Crescent City, CA 95531  
(707) 464-9506 phone  
(707) 465-4405 fax

FRONT STREET REVITALIZATION  
LANDSCAPE DETAILS

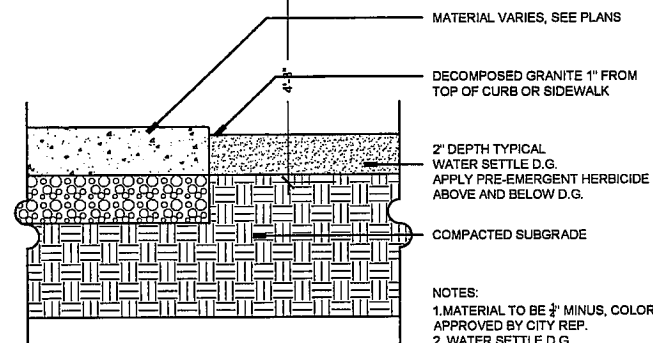
FINAL SUBMITTAL NOT FOR CONSTRUCTION

DESIGN BY	ML
DRAWN BY	ML
CHECKED BY	SN
DATE	7/9/2012
SCALE	
JOB NO.	4758
DRAWING NUMBER	LPD-2
SHEET NUMBER	105 OF 114

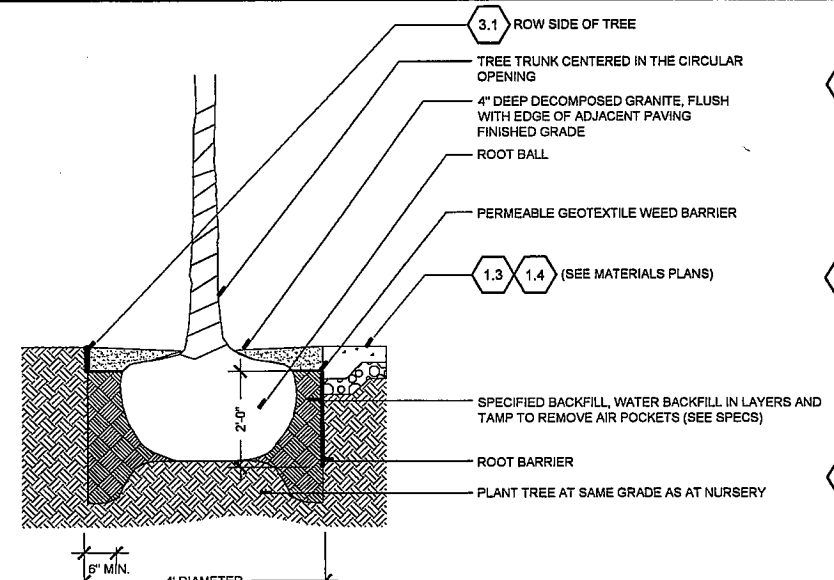
PLOT: July 12, 2012  
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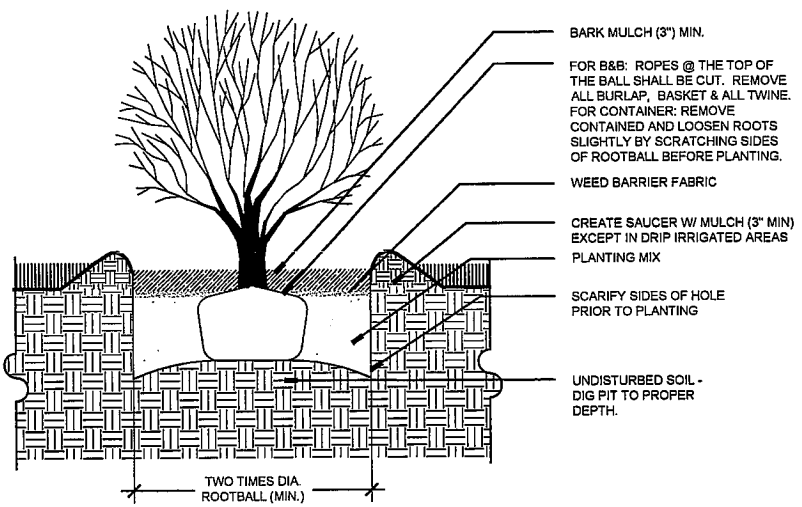
**1 Landscape Steel Edging**  
1 1/2"=1"



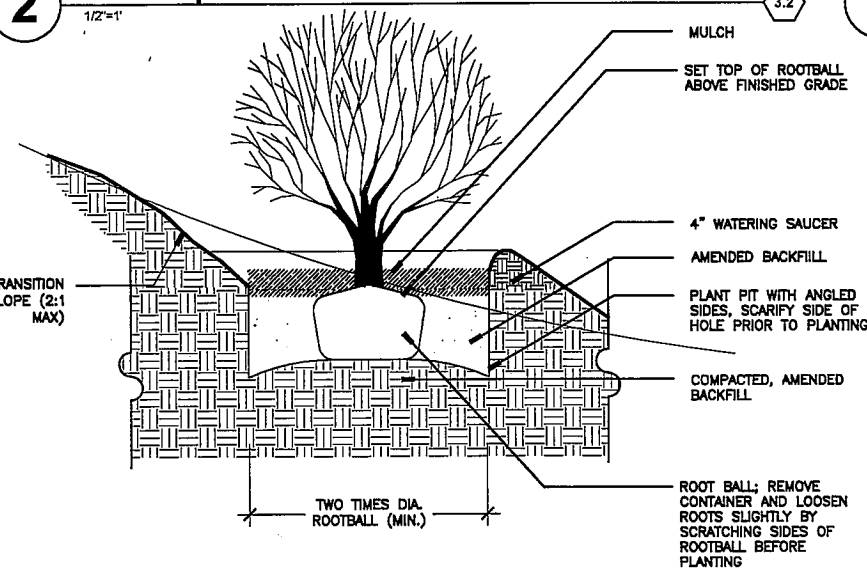
**2 Decomposed Granite**  
1 1/2"=1"



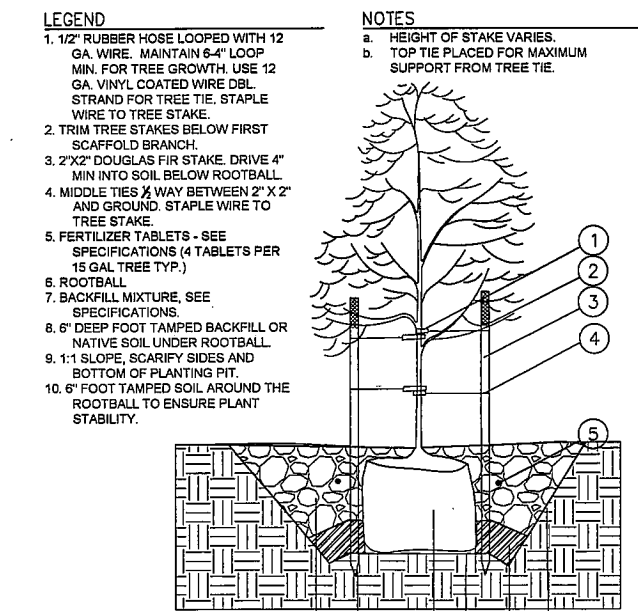
**3 Tree Planting in Paving**  
1/2"=1"



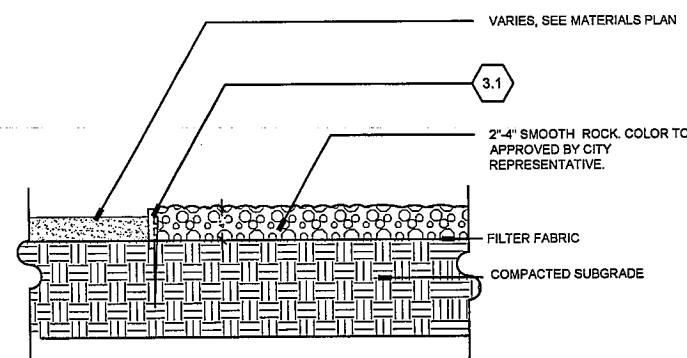
**4 Shrub Planting**  
3/4"=1"



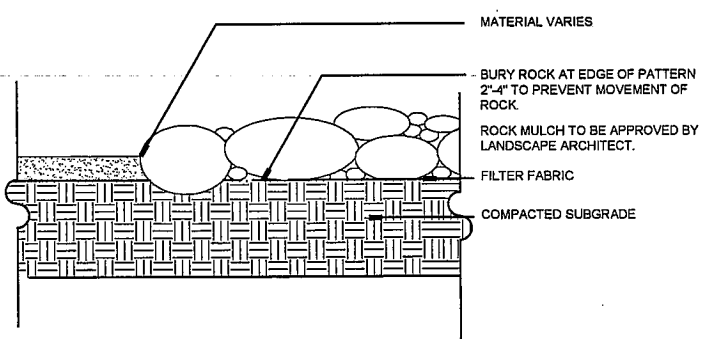
**5 Planting on Berm**  
3/4"=1"



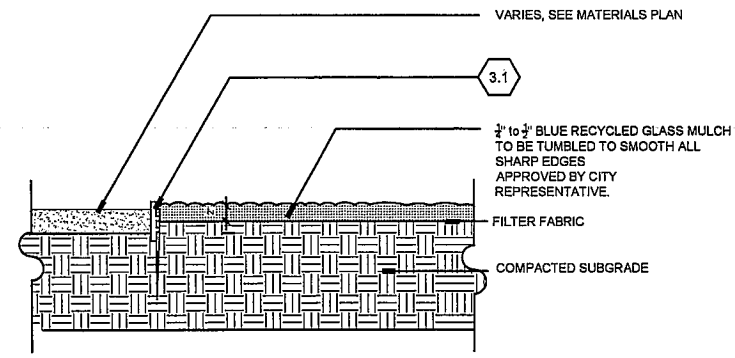
**6 Tree Planting**  
1/4"=1"



**7 2" - 4" River Cobble**  
1"=1"



**8 8" - 12" River Cobble**  
NTS



**9 Recycled Glass**  
NTS

**SITE DETAIL KEYNOTES: PAVEMENTS**

KEYNOTE	DETAIL / SHEET
1.1 Expansion Joint	LPD-1
1.2 Control Joint	LPD-1
1.3 Stamped Concrete	LPD-1
1.4 Exposed Aggregate Conc	LPD-1
1.5 Concrete Band	LPD-1
1.6 Stabilize Decomposed Path	LPD-1
1.7 Boulder in Paving	LPD-1
1.8 Compass Paving	LPD-1

**SITE WALLS/ ENCLOSURES**

2.1 Seatwall Type 1	LPD-2
2.2 Seatwall Type 2	LPD-2
2.3 Gabion Box	LPD-2
2.4 Retaining Wall	LPD-2
2.5 Wall Finish	LPD-2
2.6 Corten Planter	LPD-2
2.7 Fence	LPD-2
2.8 Fence Detail	LPD-2

**PLANTING AND LANDSCAPE**

3.1 Landscape Steel Edging	LPD-3
3.2 Decomposed Granite Mulch	LPD-3
3.3 Tree Planting in Paving	LPD-3
3.4 Shrub Planting	LPD-3
3.5 Planting on Berm	LPD-3
3.6 Tree Planting	LPD-3
3.7 2"-6" River Cobble	LPD-3
3.8 8"-12" River Cobble	LPD-3
3.9 Recycled Glass	LPD-3

**SITE SECTIONS AND ELEVATIONS**

4.1 Fence # 1	LPD-4
4.2 Fence # 2	LPD-4
4.3 Fence # 3	LPD-4
4.4 Fence # 4	LPD-4
4.5 Fence # 5	LPD-4
4.6 Fence # 6	LPD-4
4.7 Concrete Wall Elevation	LPD-5
4.8 Whale # 1	LPD-5
4.9 Whale # 2 and # 4	LPD-5
4.10 Whale # 3	LPD-5
4.11 Whale # 5	LPD-5

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FRONT STREET REVITALIZATION  
LANDSCAPE DETAILS

FINAL SUBMITTAL NOT FOR CONSTRUCTION

DESIGN BY ML  
DRAWN BY ML  
CHECKED BY SN  
DATE 7/9/2012  
SCALE  
JOB NO. 4758  
DRAWING NUMBER  
**LPD-3**  
SHEET NUMBER  
106 OF 114

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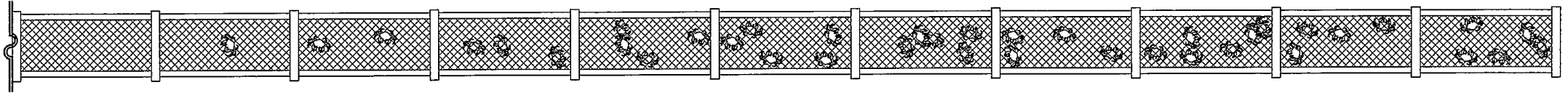
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

DESIGN OVERSIGHT: \_\_\_\_\_ QUALITY CONTROL APPROVAL: \_\_\_\_\_

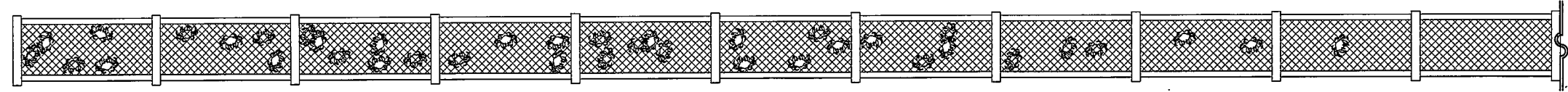
SUPERVISION BY: \_\_\_\_\_ R.C.E. NUMBER: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

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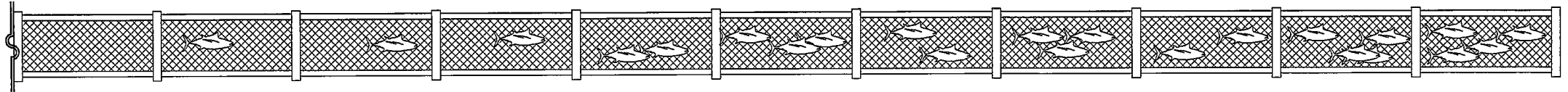
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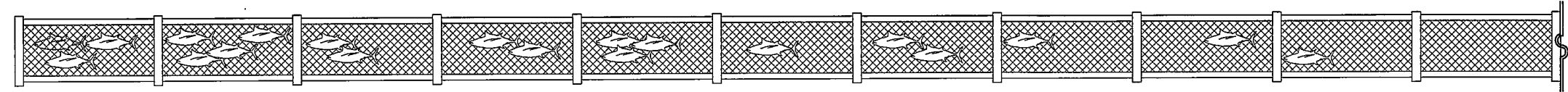
**1 Fence Elevation # 1**  
1/4"=1'



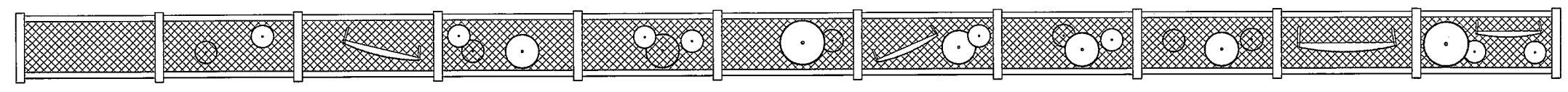
**2 Fence Elevation # 2**  
1/4"=1'



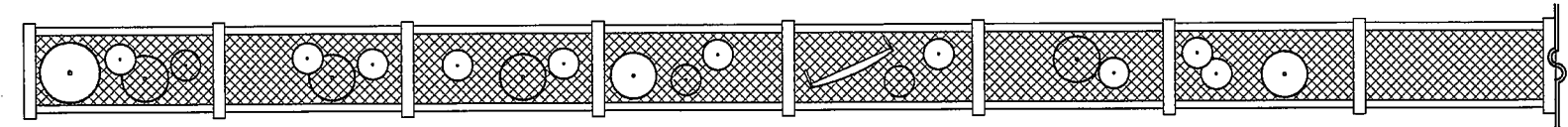
**3 Fence Elevation # 3**  
1/4"=1'



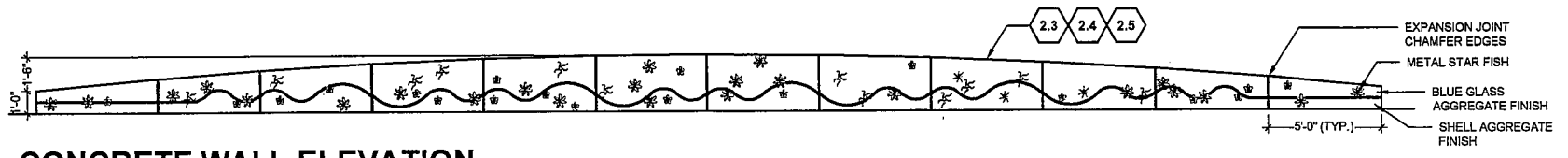
**4 Fence Elevation # 4**  
1/4"=1'



**5 Fence Elevation # 5**  
1/4"=1'



**6 Fence Elevation # 6**  
1/4"=1'



**7 CONCRETE WALL ELEVATION**  
1/2"=1'

SITE DETAIL		NO.	DATE	APP.
1.0	KEYNOTES: PAVEMENTS	1.1	Expansion Joint	LPD-1
		1.2	Control Joint	LPD-1
		1.3	Stamped Concrete	LPD-1
		1.4	Exposed Aggregate Conc	LPD-1
		1.5	Concrete Band	LPD-1
		1.6	Stabilize Decomposed Path	LPD-1
		1.7	Boulder in Paving	LPD-1
		1.8	Compass Paving	LPD-1
2.0	SITE WALLS/ ENCLOSURES	2.1	Seatwall Type 1	LPD-2
		2.2	Seatwall Type 2	LPD-2
		2.3	Gabion Box	LPD-2
		2.4	Retaining Wall	LPD-2
		2.5	Wall Finish	LPD-2
		2.6	Corten Planter	LPD-2
		2.7	Fence	LPD-2
		2.8	Fence Detail	LPD-2
3.0	PLANTING AND LANDSCAPE	3.1	Landscape Steel Edging	LPD-3
		3.2	Decomposed Granite Mulch	LPD-3
		3.3	Tree Planting in Paving	LPD-3
		3.4	Shrub Planting	LPD-3
		3.5	Planting on Berm	LPD-3
		3.6	Tree Planting	LPD-3
		3.7	2"-6" River Cobble	LPD-3
		3.8	8"-12" River Cobble	LPD-3
		3.9	Recycled Glass	LPD-3
4.0	SITE SECTIONS AND ELEVATIONS	4.1	Fence # 1	LPD-4
		4.2	Fence # 2	LPD-4
		4.3	Fence # 3	LPD-4
		4.4	Fence # 4	LPD-4
		4.5	Fence # 5	LPD-4
		4.6	Fence # 6	LPD-4
		4.7	Concrete Wall Elevation	LPD-5
		4.8	Whale # 1	LPD-5
		4.9	Whale # 2 and # 4	LPD-5
		4.10	Whale # 3	LPD-5
		4.11	Whale # 5	LPD-5



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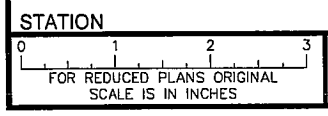
FRONT STREET REVITALIZATION  
 LANDSCAPE DETAILS

FINAL SUBMITTAL  
NOT FOR  
CONSTRUCTION

DESIGN BY	ML
DRAWN BY	ML
CHECKED BY	SN
DATE	7/9/2012
SCALE	
JOB NO.	4758
DRAWING NUMBER	

**LPD-4**

SHEET NUMBER  
107 OF 114

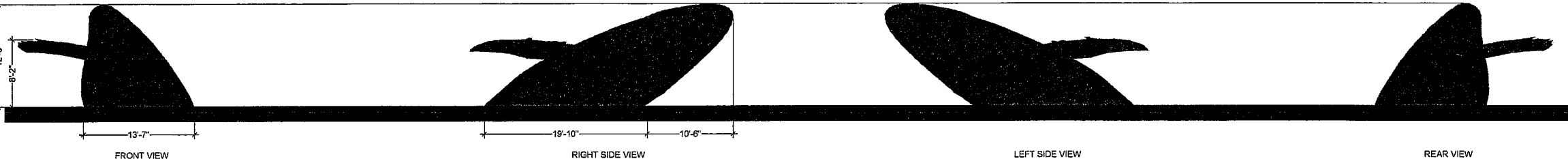
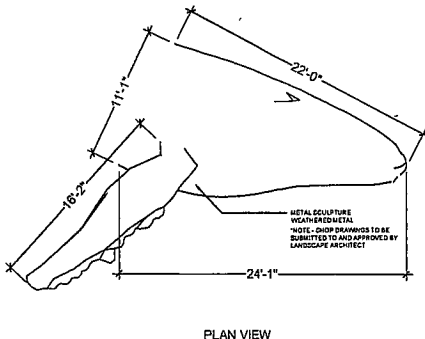


DESIGN OVERSIGHT			
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE

QUALITY CONTROL APPROVAL			
Q.C. REVIEW BY	R.C.E. NUMBER	SIGNATURE	DATE

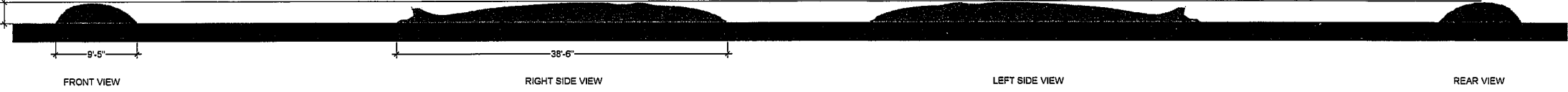
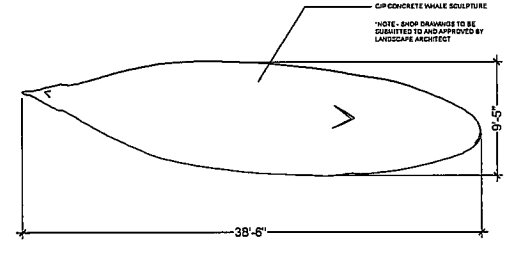
**DESIGNWORKSHOP**  
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 128 Market Street, Suite 3E  
 Stateline, Nevada 89449-5666  
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 Facsimile (775) 588-1559  
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FILE NAME: F:\DW\PROJECTS\4758-FRONT STREET-CRESCENT CITY\DW-CAD\LPD-SITE DETAILS.DWG  
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 July 11 2012  
 To: ...  
 SSTA...



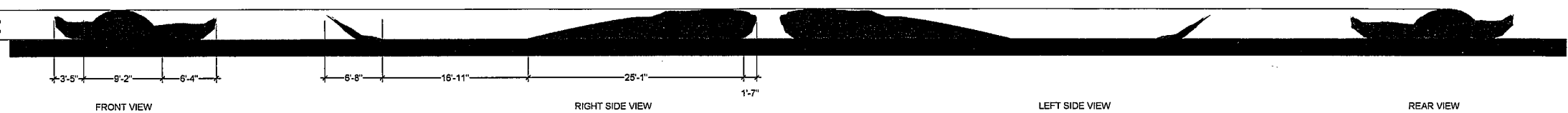
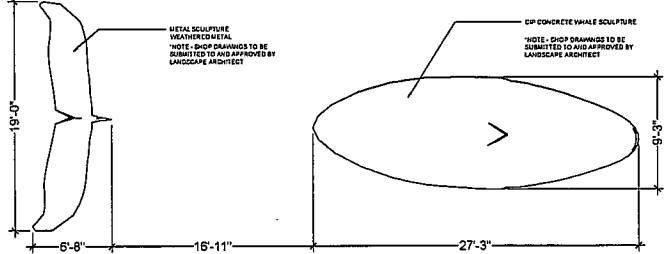
**1 Whale #1**  
1/8"=1'

4.8



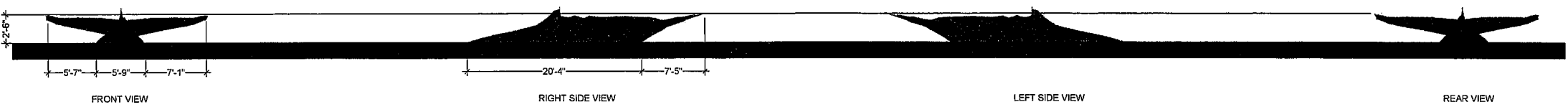
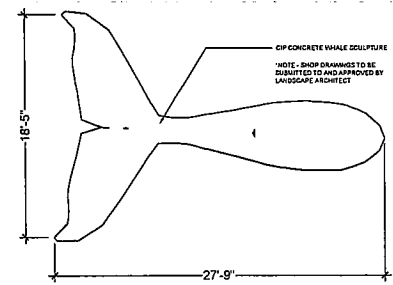
**2 Whale #2 and #4**  
1/8"=1'

4.9



**3 Whale #3**  
1/8"=1'

4.10



**4 Whale #5**  
1/8"=1'

4.11

NO.	REVISION	DATE	APP.



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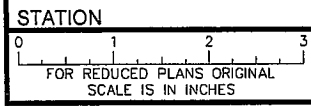
**FRONT STREET REVITALIZATION**  
**LANDSCAPE DETAILS**

FINAL SUBMITTAL  
NOT FOR  
CONSTRUCTION

DESIGN BY	ML
DRAWN BY	ML
CHECKED BY	SN
DATE	7/9/2012
SCALE	
JOB NO.	4758
DRAWING NUMBER	

**LPD-5**

SHEET NUMBER  
108 OF 114



DESIGN OVERSIGHT			
SUPERVISION BY	R.C.E. NUMBER	SIGNATURE	DATE

QUALITY CONTROL APPROVAL			
Q.C. REVIEW BY	R.C.E. NUMBER	SIGNATURE	DATE

**DESIGNWORKSHOP**

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 128 Market Street, Suite 3E  
 Stateline, Nevada 89449-5666

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CHECK NO. 1 PROJ. PHASE: 90% DATE: 11/24/11  
**CHECK PRINT**  
 PLANS BEARING THIS STAMP ARE FOR BACK-CHECKING AND QUALITY CONTROL PURPOSES ONLY. THESE PLANS ARE PRELIMINARY!  
**NOT TO BE USED FOR CONSTRUCTION**

Checked By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Corrected By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Verified By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Backchecked By: \_\_\_\_\_ Date: \_\_\_\_\_

Design Check  Plan Check  
 Q.C. Check

**PROJECT NOTES: (FOR THIS SHEET ONLY)**

- 1 SEE DETAIL A ON SHEET E-5 FOR STREET LIGHT POLE LOCATION.
- 2 SEE DETAIL C ON SHEET E-5 FOR STREET LIGHT POLE LOCATION.
- 3 1 1/2" C, 2#6 (LIGHTING A1).
- 4 1 1/2" C, 2#6 (LIGHTING A2).
- 5 1 1/2" C, 3#6 (LIGHTINGS A1 AND A2).
- 6 SEE DETAIL B ON SHEET E-5 FOR STREET LIGHT POLE LOCATION.

**GENERAL NOTES: (FOR ELECTRICAL WORK ONLY)**

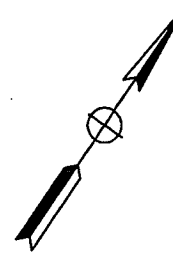
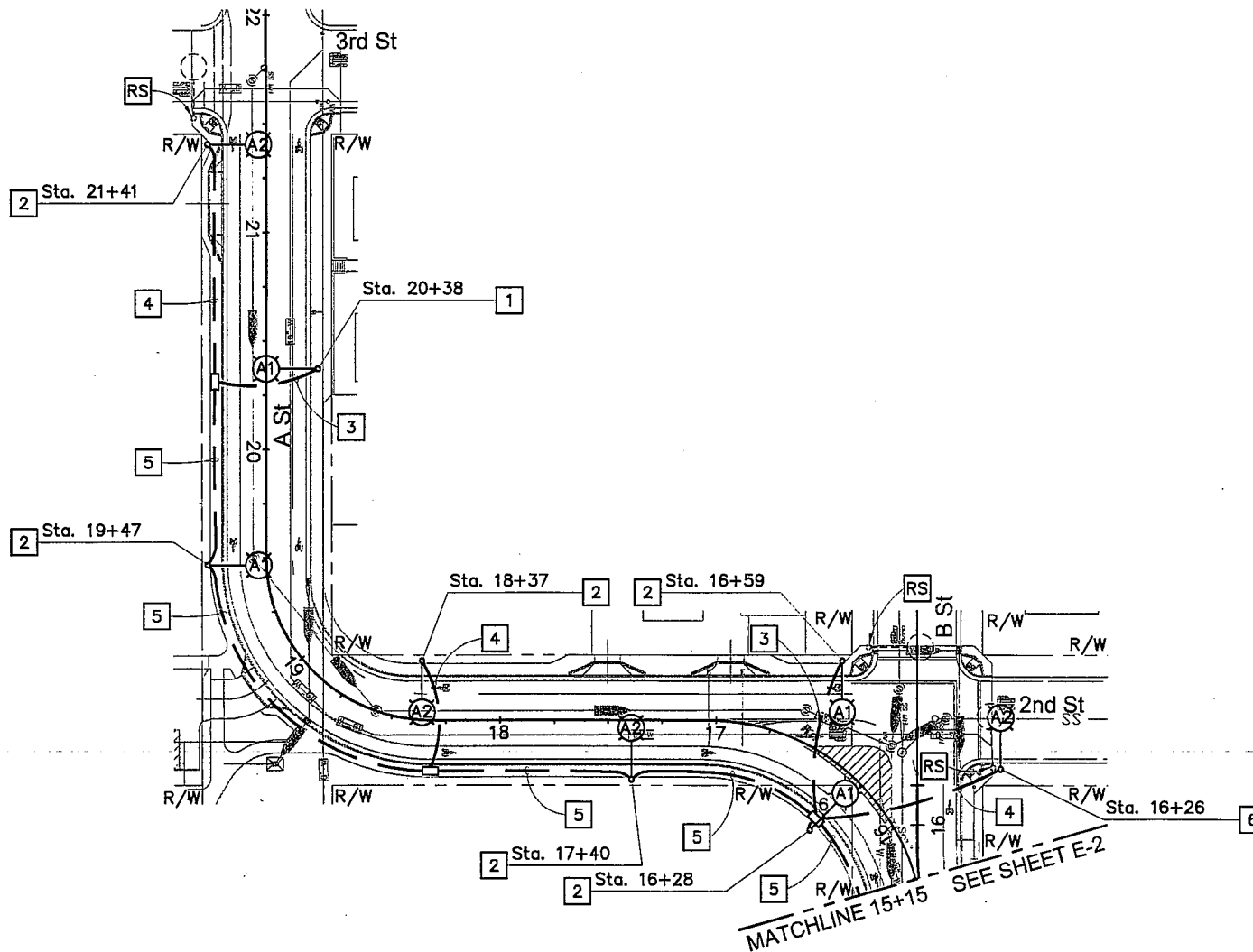
1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CALTRANS STANDARD PLANS AND SPECIFICATIONS 2010 AND THE SPECIAL PROVISIONS.
2. UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS. CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (U.S.A.) AT 1-800-227-2600 OR 811 AT LEAST 48 HOURS PRIOR TO ALL EXCAVATION WORK.
3. CONTRACTOR SHALL VERIFY OVERHEAD AND UNDERGROUND CLEARANCE REQUIREMENTS WITH PACIFIC POWER, FRONTIER AND OTHER AFFECTED UTILITIES PRIOR TO THE START OF WORK.
4. DEMOLITION OF EXISTING FEATURES SHALL BE LIMITED TO THE ITEMS SHOWN ON THE PLANS AND DESCRIBED IN THE SPECIAL PROVISIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE ALL EXISTING IMPROVEMENTS DAMAGED BY HIS OPERATIONS, AT HIS EXPENSE.
5. THE LOCATION OF ALL PULL BOXES, CONDUITS AND OTHER EQUIPMENT SHOWN ON THIS PLAN ARE APPROXIMATE AND MAY BE CHANGED TO SUIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
6. PULL BOXES SHALL NOT BE PLACED WITHIN DRIVEWAY AND CURB RAMP AREAS.
7. THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
8. THE CONTRACTOR SHALL CONTACT BOB HINKEL AT 707-465-7411 OF PACIFIC POWER FOR NEW SERVICE CONNECTIONS PRIOR TO BEGINNING OF WORK. THE CONTRACTOR SHALL VERIFY WITH PACIFIC POWER REGARDING SERVICE PULL BOX, CONDUIT, AND CONDUCTOR
9. ALL PULL BOXES SHALL BE No. 5, UNLESS OTHERWISE NOTED ON THE PLAN. STREET LIGHTING PULL BOX COVERS SHALL BE INSCRIBED "STREET LIGHTING". IRRIGATION PULL BOX COVERS SHALL BE INSCRIBED "IRRIGATION". ACCENT LIGHTING, SEATWALL LIGHTING, AND FENCE LIGHTING PULL BOX COVERS SHALL BE INSCRIBED "LIGHTING". "CALTRANS" MARK SHALL NOT BE USED.

**LEGEND: (FOR SHEETS E-1 TO E-4)**

- EXISTING STREET LIGHT.
- EXISTING STREET VENDOR HOOKUP.
- FURNISH AND INSTALL LUMEC DOMUS DMS 50 DECORATIVE STREET LIGHT WITH 135W LED LAMP AND TYPE III DISTRIBUTION (ORDER No. DMS50-135W80LED4K-LE3F-120-BE6TX); MODEL MM BRACKET (ORDER No. MM-007-1A-BE6TX); AND MODEL SAM8V POLE (ORDER No. SAM8V-22-BACS24(2)-GFII-1X36-G-12 1/2 DEC-BE6TX); OR APPROVED EQUAL.
- FURNISH AND INSTALL LUMEC DUAL DOMUS DMS 50 DECORATIVE STREET LIGHT WITH 135W LED LAMP AND TYPE III DISTRIBUTION (ORDER No. DMS50-135W80LED4K-LE3F-120-BE6TX); MODEL MM BRACKET (ORDER No. MM-008-2-BE6TX); AND MODEL SAM8V POLE (ORDER No. SAM8V-22-BACS24(2)-GFII-1X36-G-12 1/2 DEC-BE6TX); OR APPROVED EQUAL.
- FURNISH AND INSTALL 20A WEATHERPROOF OUTDOOR DUPLEX GFI RECEPTACLES PER MANUFACTURER'S RECOMMENDATION.

**STANDARD NOTES: (FOR SHEETS E-1 TO E-4)**

- AB** ABANDON, IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- CB** INSTALL CONDUIT INTO EXISTING PULL BOX.
- RC** EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
- RS** REMOVE AND SALVAGE EQUIPMENT.
- SC** SPLICE NEW TO EXISTING CONDUCTOR.



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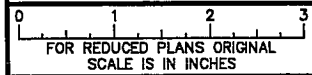
CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 464-8606 phone  
 (707) 465-4405 fax

FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 STREET LIGHTING  
 STA 15+15 TO STA 21+00



DESIGN BY	EC
DRAWN BY	EC
CHECKED BY	KC
DATE	JUL 6, 2012
SCALE	1" = 40'
JOB NO.	
DRAWING NUMBER	E-1
SHEET NUMBER	109 of 114

PLOT BY: SLEE PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: N:\PROJECT\2011\99111 FRONT STREET IMPROVEMENT\691\_LIGHTING.DWG



DESIGN OVERSIGHT	
K. DANIEL YAU	44611
SUPERVISION BY	R.C.E. NUMBER
	SIGNATURE
	DATE

QUALITY CONTROL APPROVAL	
Kin Chan	55391
Q.C. REVIEW BY	R.C.E. NUMBER
	SIGNATURE
	DATE

**Y&C** TRANSPORTATION CONSULTANTS, INC.

3250 Ramon Circle  
 Sacramento, CA 95827  
 (916) 366-8000 FAX: (916) 366-8008

CHECK NO. 1 PROJ. PHASE: 90% DATE: 11/24/11  
**CHECK PRINT**  
 PLANS BEARING THIS STAMP ARE FOR BACK-CHECKING AND QUALITY CONTROL PURPOSES ONLY.  
 THESE PLANS ARE  
**PRELIMINARY!**  
**NOT TO BE USED FOR CONSTRUCTION**

Checked By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Corrected By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Verified By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Backchecked By: \_\_\_\_\_ Date: \_\_\_\_\_

Design Check  Plan Check  
 Q.C. Check

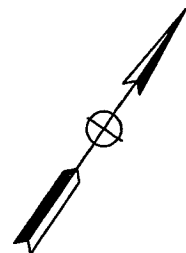
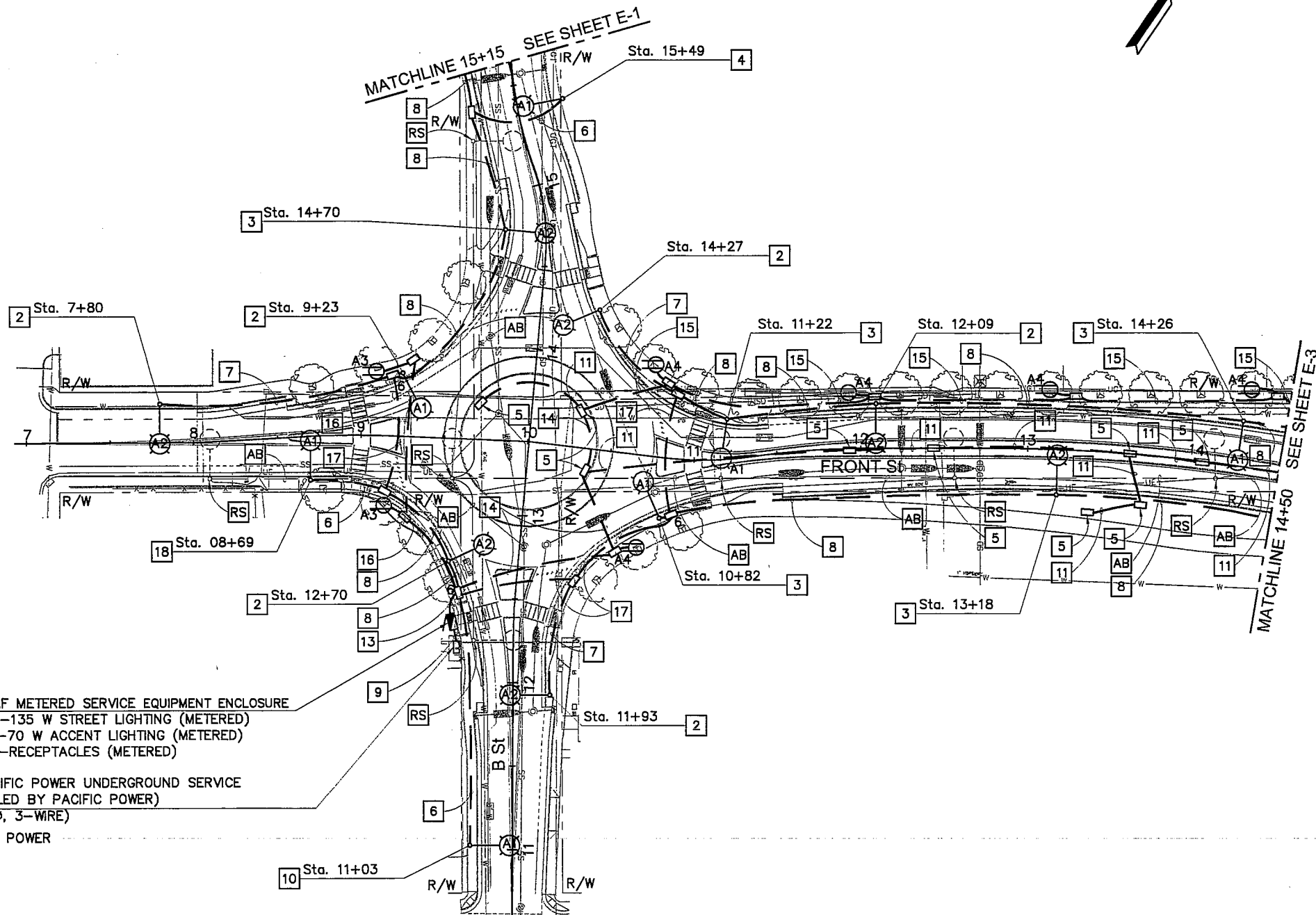
PROJECT NOTES: (FOR THIS SHEET ONLY)

- 1 FURNISH AND INSTALL TYPE III-AF METERED SERVICE EQUIPMENT ENCLOSURE WITH TYPE V PEU. FRONT DOOR SHALL FACE WEST. SEE SERVICE WIRING DIAGRAM A ON SHEET E-6 FOR DETAILS.
- 2 SEE DETAIL A ON SHEET E-5 FOR STREET LIGHT POLE LOCATION.
- 3 SEE DETAIL B ON SHEET E-5 FOR STREET LIGHT POLE LOCATION.
- 4 SEE DETAIL C ON SHEET E-5 FOR STREET LIGHT POLE LOCATION.
- 5 COIL 100' OF 2#8 (ACCENT LIGHTING) IN THIS PULL BOX. SEE LAYOUT PLAN FOR EXACT LOCATION OF ACCENT LIGHT.
- 6 1 1/2" C, 2#6 (LIGHTING A1).
- 7 1 1/2" C, 2#6 (LIGHTING A2).
- 8 1 1/2" C, 3#6 (LIGHTINGS A1 AND A2).
- 9 2" C, 3#2 (SERVICE). DEPTH OF CONDUIT SHALL BE 36" MINIMUM.
- 10 SEE DETAIL H ON SHEET E-5 FOR STREET LIGHT POLE LOCATION.
- 11 2" C, 2#8 (ACCENT LIGHTING).
- 12 CONTRACTOR SHALL COORDINATE WITH PACIFIC POWER FOR SERVICE CONNECTION.
- 13 3" C, 3#6 (LIGHTINGS A1 AND A2), 3#8 (RECEPTACLES A3 AND A4), 2#8 (ACCENT LIGHTING).
- 14 2" C, 2#8 (RECEPTACLE A4), 2#8 (ACCENT LIGHTING).
- 15 2" C, 2#8 (RECEPTACLE A4).
- 16 2" C, 2#8 (RECEPTACLE A3).
- 17 2" C, 3#6 (LIGHTINGS A1 AND A2).
- 18 SEE DETAIL I ON SHEET E-5 FOR STREET LIGHT POLE LOCATION.

1 TYPE III-AF METERED SERVICE EQUIPMENT ENCLOSURE  
 LOAD: 26-135 W STREET LIGHTING (METERED)  
 11-70 W ACCENT LIGHTING (METERED)  
 10-RECEPTACLES (METERED)

12 PROPOSED PACIFIC POWER UNDERGROUND SERVICE  
 (TO BE INSTALLED BY PACIFIC POWER)  
 (120/240 V, 1Ø, 3-WIRE)

SC BY PACIFIC POWER



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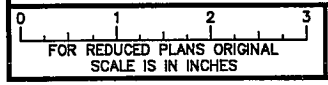
CITY OF CRESCENT CITY  
 317 J Street  
 Crescent City, CA 95531  
 (707) 466-9806 phone  
 (707) 466-4405 fax

FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 STREET LIGHTING  
 STA 7+00 TO STA 14+50



DESIGN BY EC  
 DRAWN BY EC  
 CHECKED BY KC  
 DATE JUL 6, 2012  
 SCALE 1" = 40'  
 JOB NO.  
 DRAWING NUMBER  
**E-2**  
 SHEET NUMBER  
 110 OF 114

PLOT BY: SLEE PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: N:\PROJECT\2011\69111 FRONT STREET IMPROVEMENT\691\_LIGHTING.DWG



DESIGN OVERSIGHT  
 K. DANIEL YAU 44611 JUL 6, 2012  
 SUPERVISION BY R.C.E. NUMBER SIGNATURE DATE

QUALITY CONTROL APPROVAL  
 Kin Chan 55391 JUL 6, 2012  
 Q.C. REVIEW BY R.C.E. NUMBER SIGNATURE DATE

**Y&C** TRANSPORTATION CONSULTANTS, INC.

3250 Ramon Circle  
 Sacramento, CA 95827  
 (916) 368-8000 FAX: (916) 368-8008

CHECK NO. 1 PROJ. PHASE: 90% DATE: 11/24/11  
**CHECK PRINT**  
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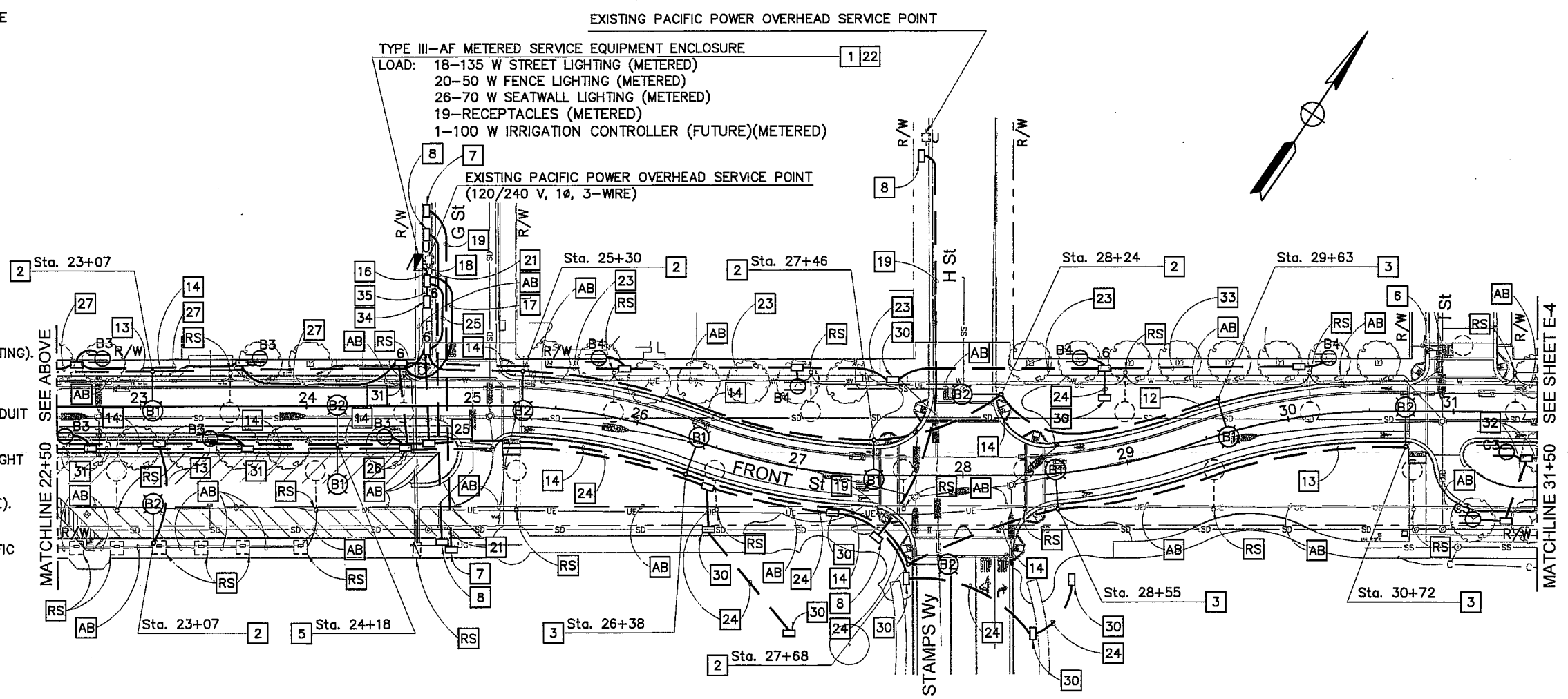
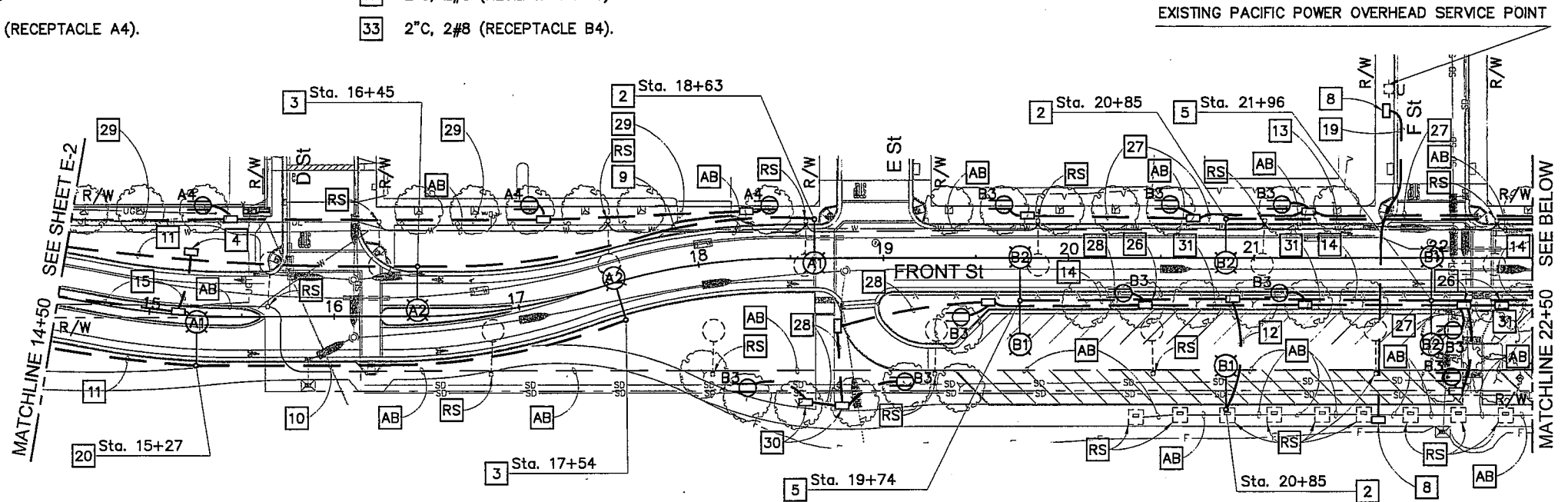
L	Checked By:	Date:
E	Corrected By:	Date:
G	Verified By:	Date:
F	Backchecked By:	Date:

Design Check  Plan Check  
 Q.C. Check

- 26 COIL 200' OF 2#8 (FENCE LIGHTING) IN THIS PULL BOX. SEE LAYOUT PLAN FOR EXACT LOCATION OF FENCE LIGHT.
- 27 2"C, 2#8 (RECEPTACLE B3).
- 28 2"C, 2#8 (RECEPTACLE B3), 2#8 (SEATWALL LIGHTING).
- 29 2"C, 2#8 (RECEPTACLE A4).
- 30 COIL 100' OF 2#8 (SEATWALL LIGHTING) IN THIS PULL BOX. SEE LAYOUT PLAN FOR EXACT LOCATION OF SEATWALL LIGHT.
- 31 2"C, 2#8 (RECEPTACLE B3), 2#8 (SEATWALL LIGHTING), 2#8 (FENCE LIGHTING).
- 32 2"C, 2#8 (RECEPTACLE C3).
- 33 2"C, 2#8 (RECEPTACLE B4).
- 34 FURNISH AND INSTALL PULL BOX FOR FUTURE IRRIGATION.
- 35 2"C, MT (FUTURE IRRIGATION).

**PROJECT NOTES: (FOR THIS SHEET ONLY)**

- 1 RC EXISTING PULL BOX. FURNISH AND INSTALL TYPE III-AF METERED SERVICE EQUIPMENT ENCLOSURE WITH TYPE V PEU AT THE SAME LOCATION AS THE SERVICE PULL BOX. FRONT DOOR SHALL FACE WEST. SEE SERVICE WIRING DIAGRAM B ON SHEET E-6 FOR DETAILS.
- 2 SEE DETAIL A ON SHEET E-5 FOR STREET LIGHT POLE LOCATION.
- 3 SEE DETAIL B ON SHEET E-5 FOR STREET LIGHT POLE LOCATION.
- 4 COIL 100' OF 2#8 (ACCENT LIGHTING) IN THIS PULL BOX. SEE LAYOUT PLAN FOR EXACT LOCATION OF ACCENT LIGHT.
- 5 SEE DETAIL D ON SHEET E-5 FOR STREET LIGHT POLE LOCATION.
- 6 EXISTING STREET LIGHT TO REMAIN.
- 7 FURNISH AND INSTALL PULL BOX FOR FUTURE VENDOR HOOKUPS SERVICE.
- 8 FURNISH AND INSTALL PULL BOX FOR FUTURE SERVICE CONNECTION.
- 9 1 1/2"C, 2#6 (LIGHTING A1).
- 10 1 1/2"C, 2#6 (LIGHTING A2).
- 11 1 1/2"C, 3#6 (LIGHTINGS A1 AND A2).
- 12 1 1/2"C, 2#6 (LIGHTING B1).
- 13 1 1/2"C, 2#6 (LIGHTING B2).
- 14 1 1/2"C, 3#6 (LIGHTING B1 AND B2).
- 15 2"C, 2#8 (ACCENT LIGHTING).
- 16 3"C, 3#6 (LIGHTINGS B1 AND B2), 3#8 (RECEPTACLES B3 AND B4), 2#8 (FENCE LIGHTING), 2#8 (SEATWALL LIGHTING).
- 17 2"C, 3#8 (RECEPTACLES B3 AND B4), 2#8 (FENCE LIGHTING), 2#8 (SEATWALL LIGHTING).
- 18 EXISTING 2"C, 3#2 (SERVICE) TO REMAIN.
- 19 2"C, MT (FUTURE SERVICE). DEPTH OF CONDUIT SHALL BE 24" MINIMUM.
- 20 SEE DETAIL I ON SHEET E-5 FOR STREET LIGHT POLE LOCATION.
- 21 2"C, MT (FUTURE VENDOR HOOKUPS SERVICE). DEPTH OF CONDUIT SHALL BE 24" MINIMUM.
- 22 CONTRACTOR SHALL COORDINATE WITH PACIFIC POWER FOR SERVICE CONNECTION.
- 23 2"C, 2#8 (RECEPTACLE B4), 2#8 (SEATWALL LIGHTING).
- 24 2"C, 2#8 (SEATWALL LIGHTING).
- 25 2"C, 3#6 (LIGHTINGS B1 AND B2).



PLOT BY: SLEE PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: N:\PROJECT\2011\99111 FRONT STREET IMPROVEMENT\691 LIGHTING.DWG

**FINAL SUBMITTAL - NOT FOR CONSTRUCTION**

NO.	REVISION	DATE	APP.

CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 464-9506 phone  
 (707) 466-4406 fax

**FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 STREET LIGHTING  
 STA 14+50 TO STA 31+50**

DESIGN BY EC  
 DRAWN BY EC  
 CHECKED BY KC  
 DATE JUL 6, 2012  
 SCALE 1" = 40'  
 JOB NO.  
 DRAWING NUMBER  
**E-3**  
 SHEET NUMBER  
 111 OF 114

0 1 2 3 FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES	DESIGN OVERSIGHT K. DANIEL YAU SUPERVISION BY 44611 R.C.E. NUMBER SIGNATURE JUL 6, 2012 DATE	QUALITY CONTROL APPROVAL Kin Chan Q.C. REVIEW BY 55391 R.C.E. NUMBER SIGNATURE JUL 6, 2012 DATE	Y&C TRANSPORTATION CONSULTANTS, INC. 3250 Ramon Circle Sacramento, CA 95827 (916) 368-9000 FAX: (916) 368-808
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CHECK NO. 1 PROJ. PHASE: 90% DATE: 11/24/11  
**CHECK PRINT**  
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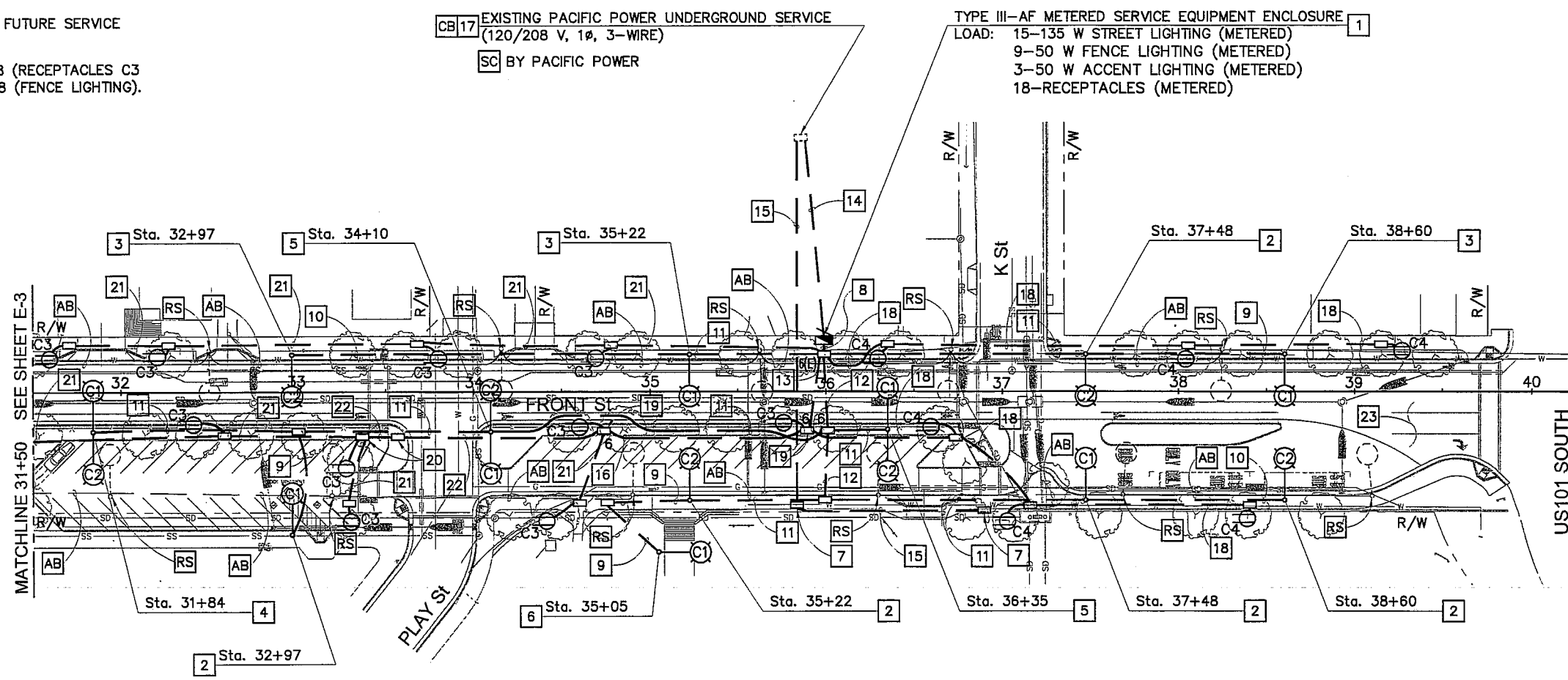
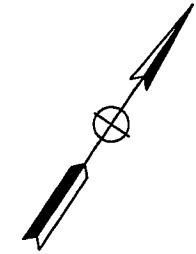
L	Checked By:	Date:
E	Corrected By:	Date:
G	Verified By:	Date:
F	Backchecked By:	Date:

Design Check  Plan Check  
 Q.C. Check

- 9 1 1/2" C, 2#6 (LIGHTING C1).
- 10 1 1/2" C, 2#6 (LIGHTING C2).
- 11 1 1/2" C, 3#6 (LIGHTINGS C1 AND C2).
- 12 2" C, 3#6 (LIGHTINGS C1 AND C2).
- 13 2" C, 3#8 (RECEPTACLES C3 AND C4), 2#8 (ACCENT LIGHTING), 2#8 (FENCE LIGHTING).
- 14 2" C, 3#2 (SERVICE). DEPTH OF CONDUIT SHALL BE 36" MINIMUM.
- 15 2" C, MT (FUTURE SERVICE). DEPTH OF CONDUIT SHALL BE 36" MINIMUM.
- 16 2" C, 2#8 (RECEPTACLE C3), 2#8 (ACCENT LIGHTING), 2#8 (FENCE LIGHTING).
- 17 CONTRACTOR SHALL COORDINATE WITH PACIFIC POWER FOR SERVICE CONNECTION.
- 18 2" C, 2#8 (RECEPTACLE C4).
- 19 COIL 200' OF 2#8 (FENCE LIGHTING) IN THIS PULL BOX. SEE LAYOUT PLAN FOR EXACT LOCATION OF FENCE LIGHT.
- 20 COIL 50' OF 2#8 (ACCENT LIGHTING) IN THIS PULL BOX. SEE LAYOUT PLAN FOR EXACT LOCATION OF ACCENT LIGHT.
- 21 2" C, 2#8 (RECEPTACLE C3).
- 22 2" C, 2#8 (RECEPTACLE C3), 2#8 (ACCENT LIGHTING).
- 23 CONTRACTOR SHALL REPLACE EXISTING DETECTOR LOOPS IN KIND IF DAMAGED BY CONSTRUCTION OF CIVIL IMPROVEMENTS.

**PROJECT NOTES: (FOR THIS SHEET ONLY)**

- 1 FURNISH AND INSTALL TYPE III-AF METERED SERVICE EQUIPMENT ENCLOSURE WITH TYPE V PEU. FRONT DOOR SHALL FACE NORTH. SEE SERVICE WIRING DIAGRAM C ON SHEET E-6 FOR DETAILS.
- 2 SEE DETAIL A ON SHEET E-5 FOR STREET LIGHT POLE LOCATION.
- 3 SEE DETAIL B ON SHEET E-5 FOR STREET LIGHT POLE LOCATION.
- 4 SEE DETAIL E ON SHEET E-5 FOR STREET LIGHT POLE LOCATION.
- 5 SEE DETAIL F ON SHEET E-5 FOR STREET LIGHT POLE LOCATION.
- 6 SEE DETAIL G ON SHEET E-5 FOR STREET LIGHT POLE LOCATION.
- 7 FURNISH AND INSTALL PULL BOX FOR FUTURE SERVICE CONNECTION.
- 8 3" C, 3#6 (LIGHTINGS C1 AND C2), 3#8 (RECEPTACLES C3 AND C4), 2#8 (ACCENT LIGHTING), 2#8 (FENCE LIGHTING).



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NO.	REVISION	DATE	APP.



CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 468-3606 phone  
 (707) 468-4405 fax

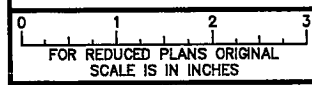
FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 STREET LIGHTING  
 STA 31+50 TO STA 40+00



DESIGN BY EC
DRAWN BY EC
CHECKED BY KC
DATE JUL 6, 2012
SCALE 1" = 40'
JOB NO.
DRAWING NUMBER

SHEET NUMBER  
 E-4  
 112 OF 114

PLOT BY: SLEE PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: N:\PROJECT\2011\69111 FRONT STREET IMPROVEMENT\691\_LIGHTING.DWG



DESIGN OVERSIGHT		QUALITY CONTROL APPROVAL	
K. DANIEL YAU	44611	Kin Chan	55391
SUPERVISION BY	R.C.E. NUMBER	Q.C. REVIEW BY	R.C.E. NUMBER
	SIGNATURE		SIGNATURE
	DATE		DATE
	JUL 6, 2012		JUL 6, 2012

**Y&C** TRANSPORTATION CONSULTANTS, INC.

3250 Ramos Circle  
 Sacramento, CA 95827  
 (916) 368-8000 FAX: (916) 368-808

CHECK NO. 1 PROJ. PHASE: 90% DATE: 11/24/11

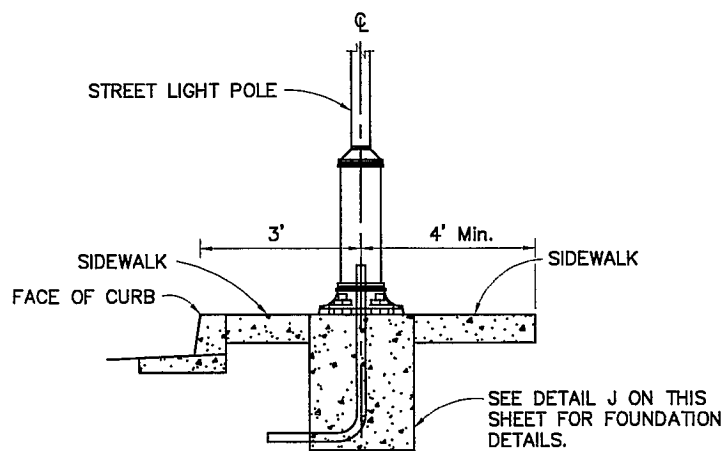
**CHECK PRINT**

PLANS BEARING THIS STAMP ARE FOR BACK-CHECKING AND QUALITY CONTROL PURPOSES ONLY. THESE PLANS ARE PRELIMINARY!

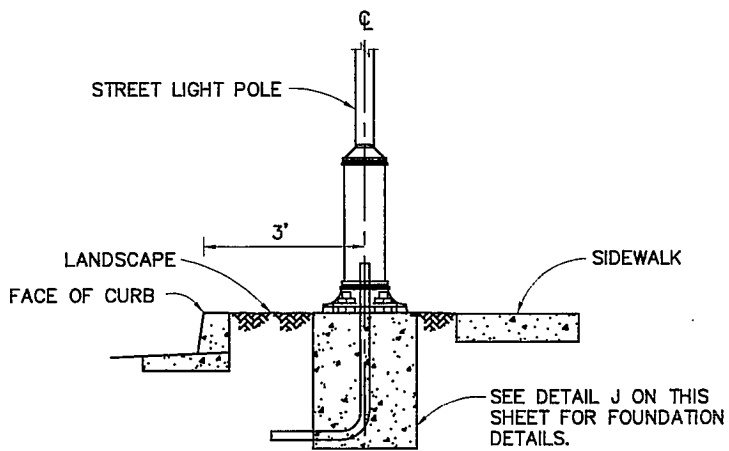
**PRELIMINARY!**

**NOT TO BE USED FOR CONSTRUCTION**

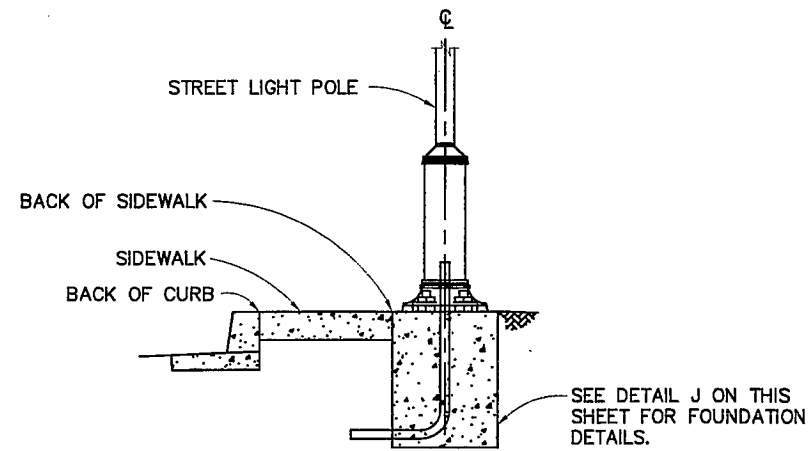
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 Verified By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Backchecked By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Design Check  Plan Check  
 Q.C. Check



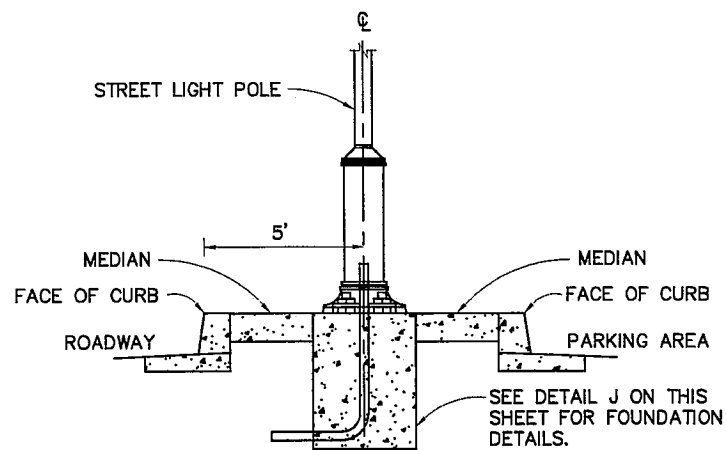
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STREET LIGHT POLE LOCATION DETAIL



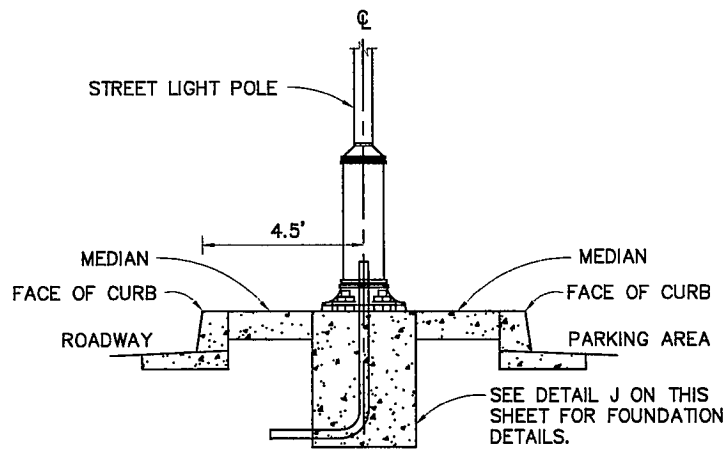
**DETAIL B**  
STREET LIGHT POLE LOCATION DETAIL



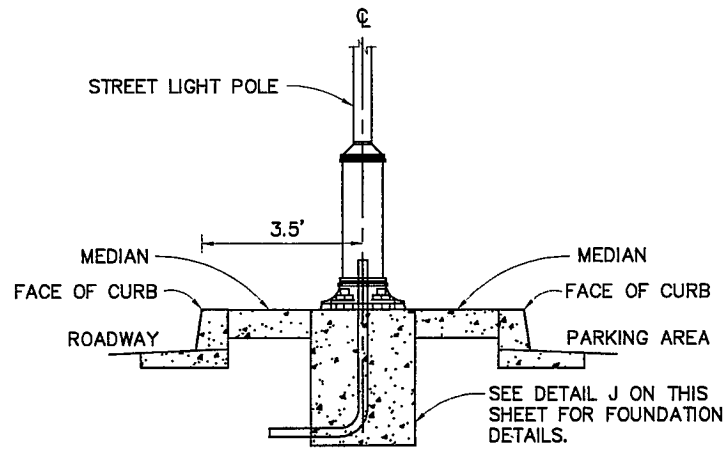
**DETAIL C**  
STREET LIGHT POLE LOCATION DETAIL



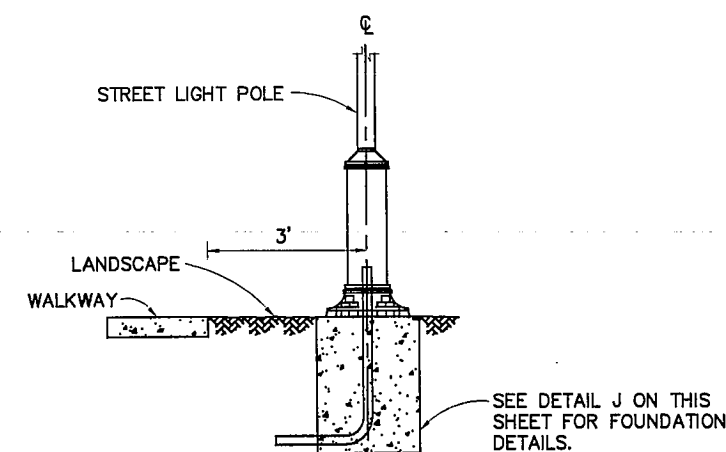
**DETAIL D**  
STREET LIGHT POLE LOCATION DETAIL



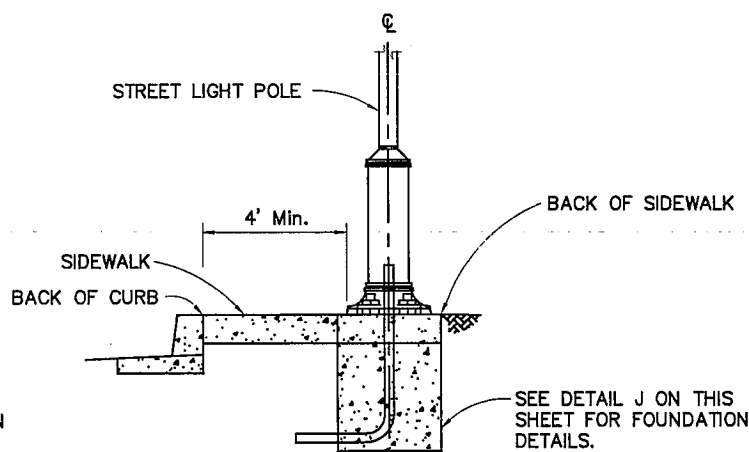
**DETAIL E**  
STREET LIGHT POLE LOCATION DETAIL



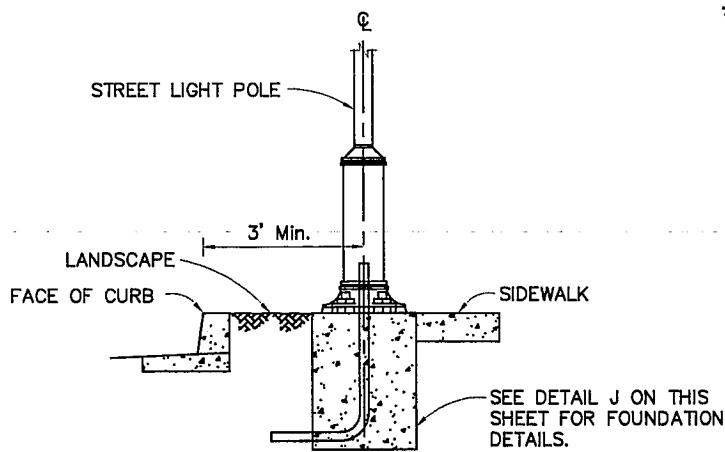
**DETAIL F**  
STREET LIGHT POLE LOCATION DETAIL



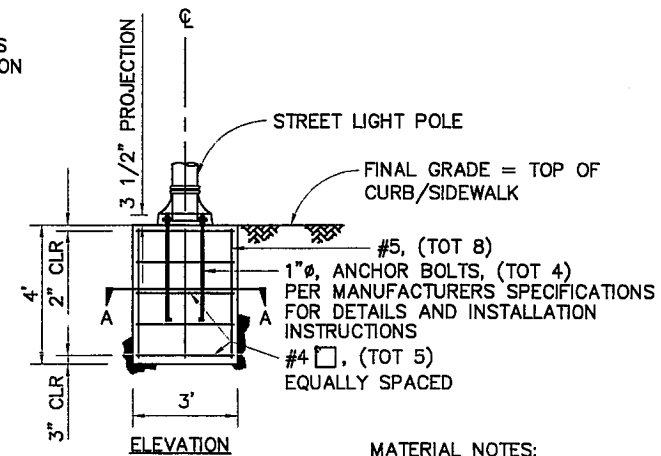
**DETAIL G**  
STREET LIGHT POLE LOCATION DETAIL



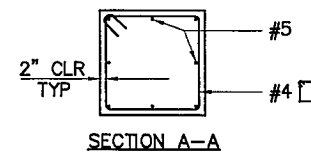
**DETAIL H**  
STREET LIGHT POLE LOCATION DETAIL



**DETAIL I**  
STREET LIGHT POLE LOCATION DETAIL



**MATERIAL NOTES:**  
 CONCRETE:  $f'_c = 3.6\text{ksi}$   
 REINFORCING STEEL:  $f_y = 60\text{ksi}$



**DETAIL J**  
STREET LIGHT POLE FOUNDATION DETAIL

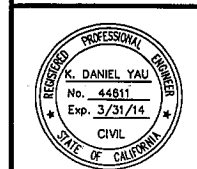
FINAL SUBMITTAL - NOT FOR CONSTRUCTION

NO.	REVISION	DATE	APP.



CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 464-9506 phone  
 (707) 465-4405 fax

FRONT STREET REVITALIZATION  
 (A STREET TO HIGHWAY 101 SOUTH)  
 ELECTRICAL DETAILS

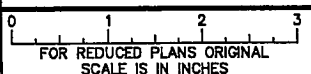


DESIGN BY	EC
DRAWN BY	EC
CHECKED BY	KC
DATE	JUL 6, 2012
SCALE	NO SCALE
JOB NO.	
DRAWING NUMBER	

**E-5**

SHEET NUMBER  
113 OF 114

PLOT BY: SLEE PLOT DATE: Tuesday, July 10, 2012  
 FILE NAME: N:\PROJECT\2011\69111 FRONT STREET IMPROVEMENT\691\_LIGHTING.DWG



DESIGN OVERSIGHT  
 K. DANIEL YAU  
 SUPERVISION BY  
 44611  
 R.C.E. NUMBER  
 JUL 6, 2012  
 DATE

QUALITY CONTROL APPROVAL  
 Kin Chan  
 Q.C. REVIEW BY  
 55391  
 R.C.E. NUMBER  
 JUL 6, 2012  
 DATE

**Y&C** TRANSPORTATION CONSULTANTS, INC.




3250 Ramon Circle  
 Sacramento, CA 95827  
 (916) 368-8000 FAX: (916) 368-808

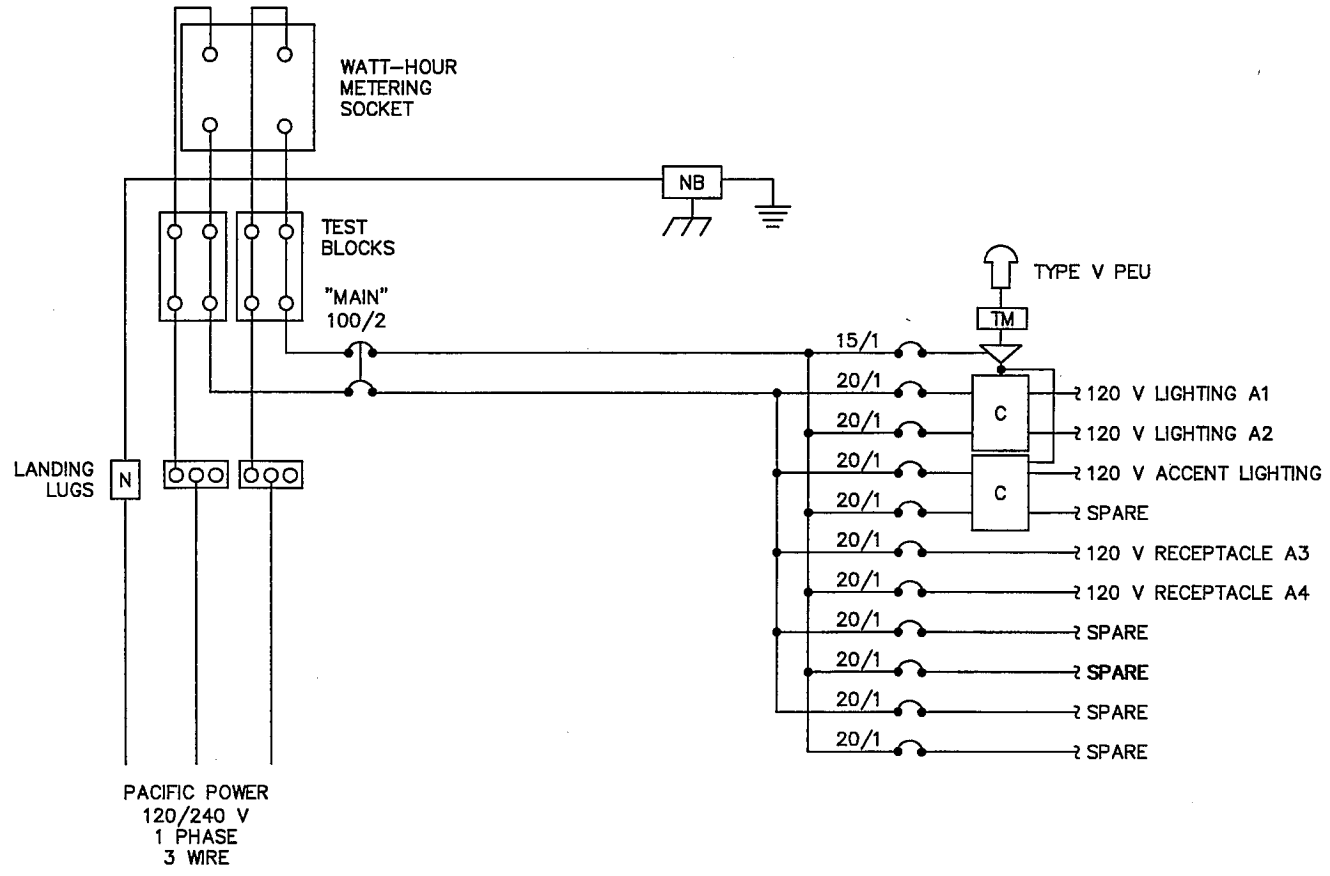
CHECK NO. 1 PROJ. PHASE: 90% DATE: 11/24/11  
**CHECK PRINT**  
 PLANS BEARING THIS STAMP ARE FOR BACK-CHECKING AND QUALITY CONTROL PURPOSES ONLY. THESE PLANS ARE PRELIMINARY!  
**NOT TO BE USED FOR CONSTRUCTION**

Checked By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Corrected By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Verified By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Backchecked By: \_\_\_\_\_ Date: \_\_\_\_\_

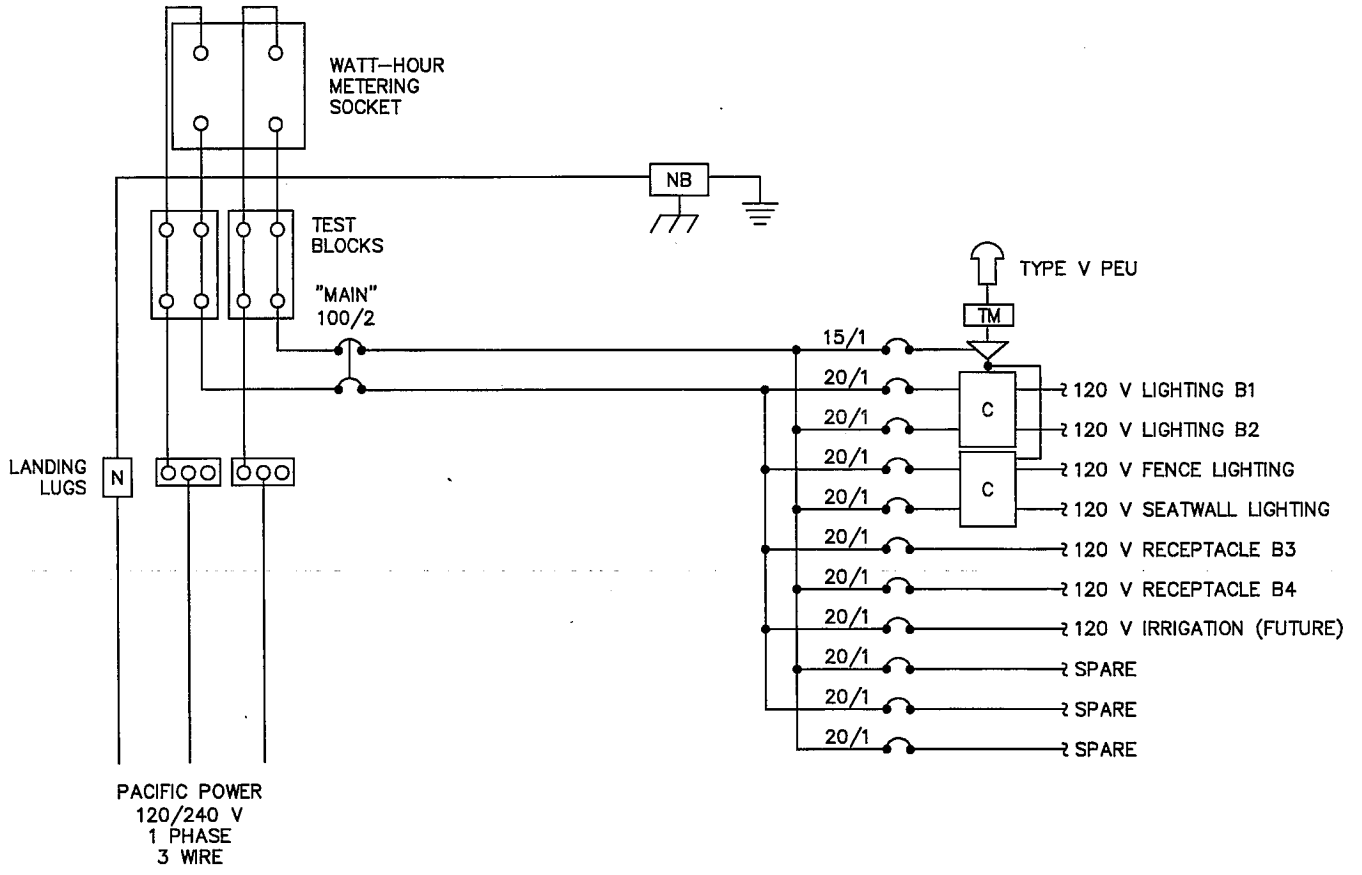
Design Check  Plan Check  
 Q.C. Check

**WIRING DIAGRAM LEGEND**

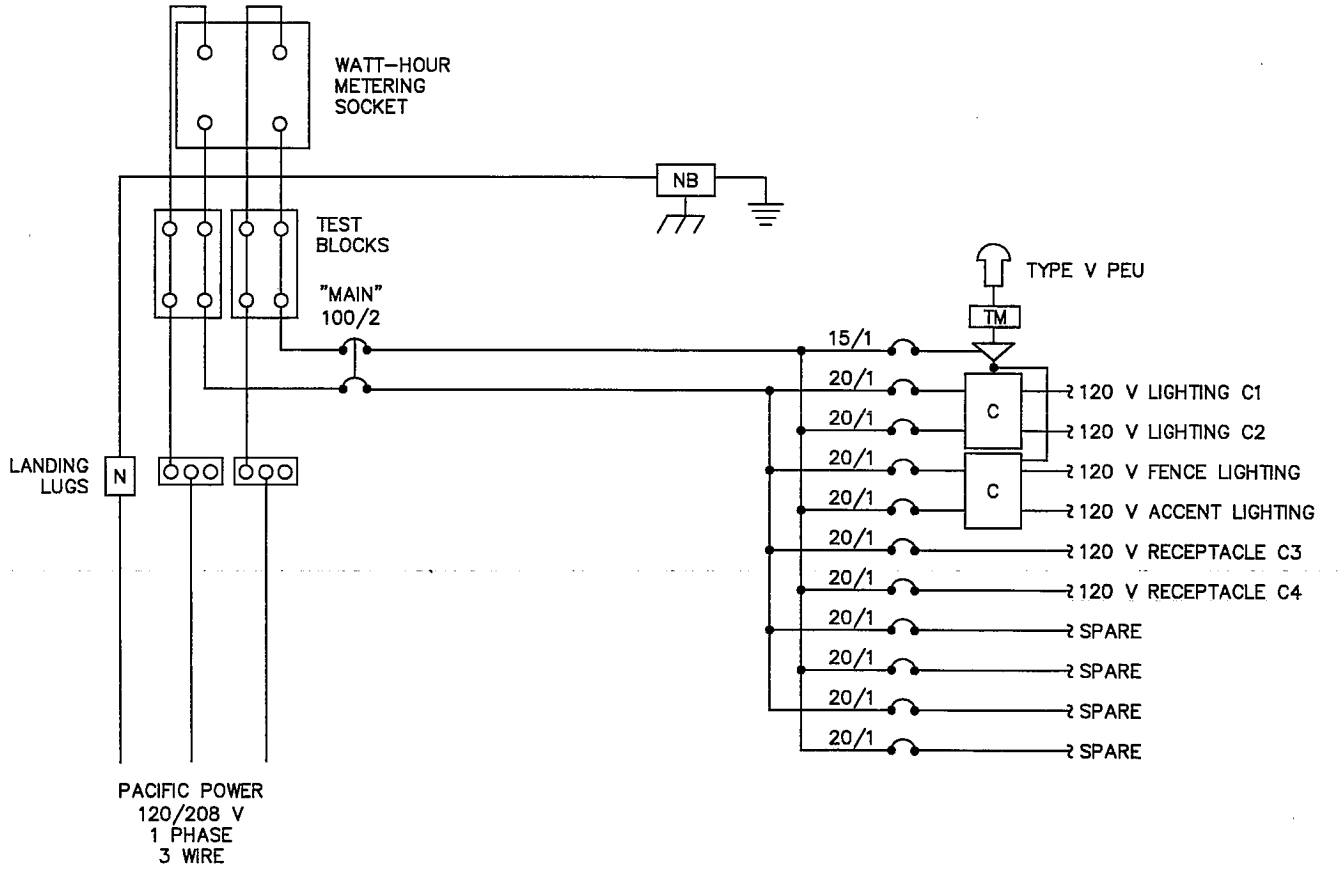
- NB** = NEUTRAL BUS
- TM** = TERMINAL BLOCK FOR PHOTOCELL WIRES
-  = 15 A, 1P AUTO-TEST SWITCH
-  = PHOTOELECTRIC UNIT
-  = LIGHTING CONTACTOR



**SERVICE WIRING DIAGRAM A**

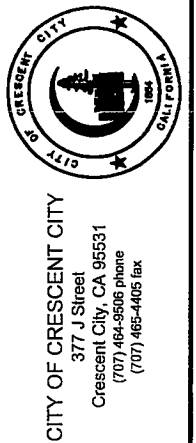


**SERVICE WIRING DIAGRAM B**

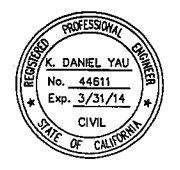


**SERVICE WIRING DIAGRAM C**

FINAL SUBMITTAL - NOT FOR CONSTRUCTION



CITY OF CRESCENT CITY  
 377 J Street  
 Crescent City, CA 95531  
 (707) 464-9506 phone  
 (707) 465-4405 fax

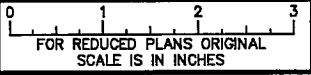


DESIGN BY EC  
 DRAWN BY EC  
 CHECKED BY KC  
 DATE JUL 6, 2012  
 SCALE NO SCALE  
 JOB NO.  
 DRAWING NUMBER

**E-6**

SHEET NUMBER  
 114 OF 114

PLOT BY: SLEE PLOT DATE: Tuesday, July 10, 2012 FILE NAME: N:\PROJECT\2011\69111 FRONT STREET IMPROVEMENT\691\_LIGHTING.DWG



DESIGN OVERSIGHT  
 K. DANIEL YAU 44611 JUL 6, 2012  
 SUPERVISION BY R.C.E. NUMBER SIGNATURE DATE

QUALITY CONTROL APPROVAL  
 Kin Chan 55391 JUL 6, 2012  
 Q.C. REVIEW BY R.C.E. NUMBER SIGNATURE DATE



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