La Jolla View Reservoir Project Environmental Impact Report SCH No. 2018041020 - Project No. 331101

Appendix J

Waste Management Plan

February 2020



La Jolla View Reservoir Project

Waste Management Plan

December 2018 | SDD-31.08

Prepared for:

City of San Diego Public Works Department 525 B Street, Suite 750 San Diego, CA 92101

Prepared by:

HELIX Environmental Planning, Inc. 7578 El Cajon Boulevard

La Mesa, CA 91942

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ACRONYMS AND ABBREVIATIONS

AB	Assembly Bill
C&D CalRecycle CEQA CF CIWMA CY	Construction and Demolition California Department of Resources Recycling and Recovery California Environmental Quality Act cubic feet California Integrated Waste Management Act of 1989 cubic yard(s)
DSD	Development Services Department (City of San Diego)
ESD	Environmental Services Department (City of San Diego)
IWMP	Integrated Waste Management Plan
LF LJCP	linear feet La Jolla Community Plan
MG	million-gallon
SA SDMC SF SRRE SWMC	surface area San Diego Municipal Code square foot/feet Source Reduction and Recycling Element Solid Waste Management Coordinator
WDM WMP	Waste Diversion Measures Waste Management Plan

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1.0 INTRODUCTION

1.1 PURPOSE OF THE REPORT

The purpose of this Waste Management Plan (WMP) is to identify the quantity of solid waste that would be generated by the La Jolla View Reservoir Project (Project) throughout demolition, construction, and operation, and to identify measures to reduce the potential impacts associated with management of such waste.

Proper separation and diversion of recyclable waste materials is required in order to divert each material type to a recycling/reuse facility with the highest possible diversion rate. As discussed further in Section 2.0, *Regulatory Framework*, in order to comply with City of San Diego's (City's) waste reduction ordinances and the waste diversion goals established in State of California (State) Assembly Bill (AB) 341, the Project must achieve a 75 percent diversion rate during demolition and construction. The City's California Environmental Quality Act (CEQA) Significance Thresholds for solid waste identify a threshold of 1,500 tons of waste or more during construction and demolition (C&D) for direct solid waste impacts, and 60 tons of waste or more during C&D for potentially significant cumulative solid waste impacts. The City Environmental Services Department's (ESD) *2018 Certified Construction & Demolition Recycling Facility Directory* (City 2018) provides guidance on identifying recycling/reuse facility locations, accepted materials, recycling/reuse rates, and associated disposal fees and/or the value of the materials accepted for recycling/reuse.

This WMP has been prepared consistent with applicable federal, State, and local laws, regulations, and standards pertinent to the Project. Its goal is to implement an approach for managing waste that conserves landfill space, preserves environmental quality, conserves natural resources, and reduces disposal costs. Responsibility for ensuring ongoing WMP compliance would be under the direction of the Project Solid Waste Management Coordinator (SWMC), as assigned by the City of San Diego (Applicant).

1.2 PROJECT LOCATION

The Project is generally located within the 42-acre La Jolla Natural Park (a part of City Parks and Recreation Open Space), and is designated as "Parks, Open Space" under the La Jolla Community Plan (LJCP). The site is bounded by Country Club Drive, across which is located a golf course, to the west; residences off Remley Place, Brodiaea Way, and Encelia Drive to the south; additional open space to the east; and residences off Valdes Drive to the north (see Figure 1, *Regional Location,* and Figure 2, *Aerial Vicinity*). The existing La Jolla View Reservoir is located in the La Jolla Natural Park, approximately 500 feet east of Country Club Drive and 150 feet north of the Remley Place residences. The Exchange Place Reservoir is located east of the intersection of Country Club Drive and Pepita Way, outside of the park limits. Improvements also would occur along Country Club Drive between Soledad Avenue and Romero Drive.

1.3 **PROJECT DESCRIPTION**

1.3.1 Development Concept and Summary

The existing La Jolla View Reservoir is a 0.72-million-gallon (MG) potable water storage facility that was constructed in 1949. The existing 0.99-MG La Jolla Exchange Place Reservoir was originally constructed



in 1909 and was decommissioned in 2002. Use of the existing La Jolla View Reservoir is very limited due to higher-pressure zone and other water system changes. Water quality in the reservoir is also poor and requires supplemental chlorine treatment when in operation. In addition, the existing 16-inch diameter cast iron Muirlands Pipeline that supplies water to the existing La Jolla View Reservoir is beyond its useful life and is undersized for current water conveyance requirements.

The proposed Project would replace the existing Exchange Place Reservoir and La Jolla View Reservoir with a new 3.1-million-gallon reservoir within the La Jolla Natural Park (see Figure 3, *Site Plan*). The existing La Jolla View Reservoir and the Exchange Place Pump Station would be demolished. The Exchange Place Reservoir would be partially demolished by removing the roof and upper three feet of concrete lining, and then backfilling the reservoir with soil. The proposed new reservoir would be almost entirely buried, except for reservoir access hatches and supervisory control and data acquisition equipment. The new reservoir would include an approximately 200-foot-long, 18-inch overflow pipe with an at-grade outlet and energy dissipation structure. The outlet would be situated near the head of the north-central on-site drainage. In addition, 480 linear feet (LF) of an 8-inch utility water connection to the new reservoir would be provided from the existing water main in Brodiaea Way (see Appendix A).

The Project also includes construction of approximately 2,790 LF of 30-inch pipeline. The pipeline would run from the new La Jolla View Reservoir in a general east-to-west direction through the La Jolla Natural Park to connect with the existing 16-inch Muirlands pipeline in County Club Drive. Approximately 1,050 LF of the 2,790 LF total would be replacing the 16-inch pipeline up to the existing Muirlands Pump Station. In addition, approximately 780 feet of an 8-inch pipeline would parallel the 30-inch pipeline along Country Club Drive to serve existing customers. An altitude valve vault would be located along the pipeline adjacent to Country Club Drive. The existing pipeline segment through the La Jolla Natural Park would be abandoned in place.

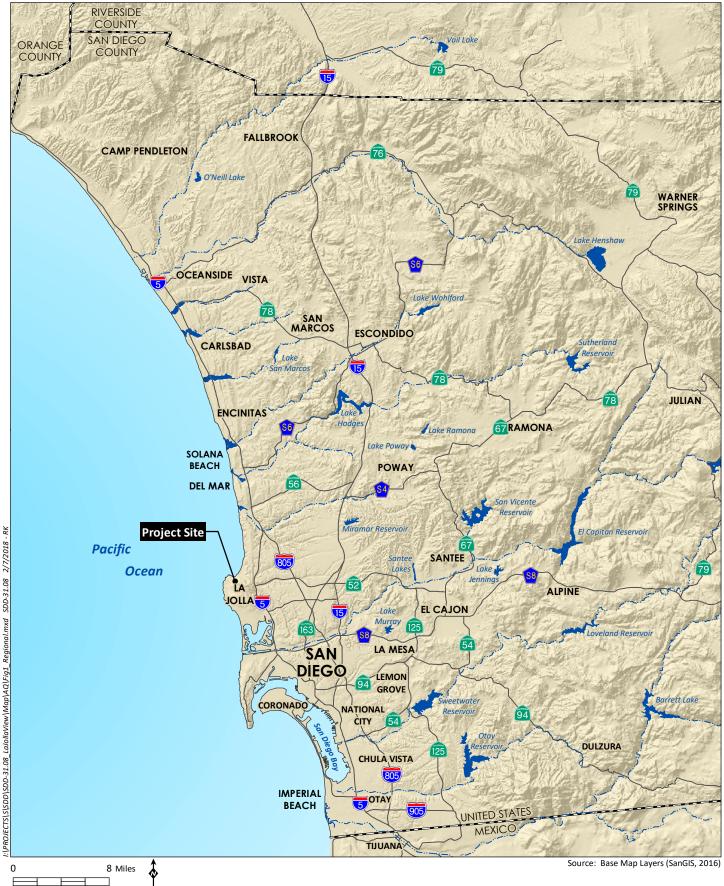
An existing paved access road from Encelia Drive would be reconstructed to allow access to the new reservoir site for maintenance vehicles. This road would terminate at the reservoir access hatches where two parking spaces and a paved turnaround area would be provided. The remaining portion of the existing access road to the existing La Jolla View Reservoir would be demolished, and the area would be revegetated.

1.3.2 Grading and Construction

Excavation to install the new reservoir would result in approximately 78,000 cubic yards (CY) of cut. Of this volume, approximately 22,000 CY would be permanently disposed of off-site, requiring approximately 4,500 truck trips. The remainder (56,000 CY) would be temporarily stockpiled on site, including use of a proposed temporary access road that would run from the new reservoir site to the stockpile area within La Jolla Natural Park near Country Club Drive. During stockpiling, 5,000 CY would be used to backfill the Exchange Place Reservoir. Once the reservoir is installed, the remaining stockpiled soil would be backfilled into the new reservoir location and used to cover the temporary access road. The backfilled areas would be revegetated.



La Jolla View Reservoir



Regional Location

Figure 1

La Jolla View Reservoir



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0 E Source: Aerial (SanGIS 2014)

Aerial Vicinity

Figure 2





Source: IEC 2017



2.0 **REGULATORY FRAMEWORK**

2.1 STATE OF CALIFORNIA

The State Integrated Waste Management Act (CIWMA) of 1989 (AB 939), which is administered by the California Department of Resources Recycling and Recovery (CalRecycle), requires counties to develop an Integrated Waste Management Plan (IWMP) that describes local waste diversion and disposal conditions, and lays out realistic programs to achieve the waste diversion goals. IWMPs compile Source Reduction and Recycling Elements (SRREs) that are required to be prepared by each local government, including cities. SRREs analyze the local waste stream to determine where to focus diversion efforts and provide a framework to meet waste reduction mandates. The goal of the solid waste management efforts is not to increase recycling, but to decrease the amount of waste entering landfills. AB 939 required all cities and counties to divert a minimum 50 percent of all solid waste from landfill disposal.

In 2011, the State legislature enacted AB 341 (California Public Resource Code Section 42649.2), increasing the diversion target to 75 percent statewide. AB 341 also requires the provision of recycling service to commercial and residential facilities that generate 4 CY or more of solid waste per week.

2.2 CITY OF SAN DIEGO

The City has enacted codes and policies directed at the achievement of State-required diversion levels, including the Refuse and Recyclable Materials Storage Regulations (Municipal Code Chapter 14, Article 2 Division 8), Recycling Ordinance (City 2007; Municipal Code Chapter 6, Article 6, Division 7), and the Construction and Demolition Debris Deposit Ordinance (City 2008; Municipal Code Chapter 6, Article 6, Division 6). The City's Zero Waste Plan, a component of the City's Climate Action Plan, was approved and adopted by City Council on July 13, 2015. The Zero Waste Plan identifies goals and strategies to achieve 75 percent diversion by 2020, 90 percent diversion by 2035, and "zero" waste by 2040 (City 2015).

As stated in the City Development Services Department (DSD) CEQA Significance Determination Thresholds (City 2016c), implementation of these regulations and ordinances alone is not projected to achieve a 50 percent diversion rate, far below the current 75 percent diversion level targeted by the State and identified in the Zero Waste Plan for 2020. The City's ESD estimates that compliance with existing City ordinances and regulations alone achieves only an approximate 40 percent diversion rate (City 2013). Therefore, discretionary projects must undertake additional measures to comply with existing regulations. The City's Miramar Landfill is currently projected to close in 2025, further emphasizing the need to preserve landfill space.

2.2.1 City of San Diego CEQA Significance Determination Thresholds

The City's CEQA Significance Determination Thresholds establish solid waste generation thresholds for discretionary projects. Proposed projects that involve construction, demolition, and/or renovation that meet or exceed the thresholds described below are considered to have potentially significant solid waste impacts and require the preparation of a WMP.



Direct Impacts

Projects that include the construction, demolition, or renovation of 1,000,000 square feet (SF) or more of building space may generate approximately 1,500 tons of waste or more during C&D and are considered to have direct impacts on solid waste services.

Direct impacts result from the generation of large amounts of waste, which brings facilities closer to daily throughput limits, shortens facility lifespans, requires increased numbers of trucks and other equipment, and makes it difficult for the City to achieve required waste reduction levels. Waste management planning is based on a steady rate of waste generation and does not assume increased waste generation due to growth.

While all projects are required to comply with the City's waste management ordinances, direct and cumulative impacts are mitigated by the implementation of project-specific WMPs, which may reduce solid waste impacts to below a level of significance.

For projects over 1,000,000 SF, a significant direct and cumulative solid waste impact would result if the compliance with the City's ordinances and the WMP fail to reduce the impacts of such projects to below a level of significance and/or if a WMP for the project is not prepared and conceptually approved by the ESD prior to distribution of the draft environmental document for public review.

Cumulative Impacts

Projects that include the construction, demolition, and/or renovation of 40,000 SF or more of building space may generate approximately 60 tons of waste or more and are considered to have cumulative impacts on solid waste services.

While all projects are required to comply with the City's waste management ordinances, cumulative impacts are mitigated by the implementation of a project-specific WMP that reduces solid waste impacts to below a level of significance.

Although the Project would not include construction, demolition, or renovation of 1,000,000 SF or more, it would generate more than 1,500 tons of solid waste materials during demolition and construction. Therefore, without solid waste diversion measures, the Project would exceed the City's threshold for direct solid waste impacts. Because implementation of the Project without waste diversion measures would exceed direct solid waste thresholds, preparation of this WMP is required under CEQA to ensure that the Project contribution to the overall waste produced within the City would be reduced sufficiently to allow the City to comply with the waste reduction targets established in the Public Resources Code and State statutes.

2.2.2 City of San Diego Construction and Demolition Debris Deposit Ordinance

On July 1, 2008, the City's C&D Debris Deposit Ordinance went into effect (City 2008). An amendment to the ordinance and revisions to the associated C&D deposit schedule were approved by the City Council on December 10, 2013 (effective January 1, 2014) and on April 19, 2016 (effective June 22, 2016). The C&D Debris Deposit Ordinance is designed to keep C&D materials out of local landfills and ensure that materials are diverted from disposal. The ordinance creates an economic incentive to recycle C&D debris through the collection of fully refundable deposits that are returned, in whole or in part, upon proof of



the amount of C&D debris the project applicant diverted from landfill disposal. The ordinance requires that the majority of construction, demolition and remodeling projects requiring building, combination, and demolition permits pay a refundable C&D Debris Recycling Deposit and divert at least 65 percent of their debris by recycling, reusing, or donating usable materials. The deposit is held until the applicant provides receipts demonstrating that a minimum 65 percent of the material generated has been diverted from disposal in landfills.

The C&D Ordinance stipulates that projects will be required to divert 75 percent of their wastes when mixed debris facilities with a permitted daily tonnage capacity of at least 1,000 tons maintain a 75 percent diversion rate for three consecutive calendar year quarters. Greater than 75 percent diversion also may be required for a project if a higher goal is specified during discretionary permitting. Mixed debris recyclers in San Diego County currently achieve between 71 and 90 percent diversion rates at their facilities (refer to Appendix B). This is because not everything that comes through the door is usable or marketable. While there is one facility that achieves a diversion rate equal to or greater than 75 percent, the others have a diversion rate of 71 or 72 percent. For a project that would dispose of mixed debris at one of the facilities that achieves a 71 or 72 percent diversion rate, virtually all clean C&D waste from a project must be source separated and sent to a material-specific recycling facility, such as aggregate and metal recyclers, in order to achieve an overall diversion rate of 75 percent. Higher diversion rates can also be accomplished by salvage and/or on-site reuse of C&D materials. The City's C&D thresholds and deposit amounts are shown below in Table 1, *City C&D Deposit Schedule*.

Table 1 CITY C&D DEPOSIT SCHEDULE

Building Category	Deposit per SF ¹	Minimum SF Subject to Ordinance	Maximum SF Subject to Ordinance	Range of Deposits			
Residential New Construction, Non- residential Alterations, Demolition	\$0.40	1,000	100,000	\$400-\$40,000			
Non-residential New Construction	\$0.20	1,000	50,000	\$200-\$10,000			
Flat Rate							
Residential Alterations	\$1,000	1,000	6,999	\$1,000			

Source: City 2016a

¹ Deposit amounts are applied to the entire area(s) where work will be performed and are calculated based on square footage.

SF = square feet

3.0 PRE-CONSTRUCTION WASTE GENERATION AND DIVERSION: DEMOLITION, CLEARING/ GRUBBING, AND GRADING

All C&D-generated waste would be subject to compliance with the source separation and diversion requirements contained in this WMP to divert, recycle, and/or re-use these materials to the maximum degree possible. As identified in the City's *2018 Certified Construction & Demolition Recycling Facility Directory* (Appendix B), "Mixed C&D Debris" recyclers attain at most a 90 percent diversion rate, whereas "source separated" material recyclers can attain nearly 100 percent diversion rates (City 2018).



As a result, in order to achieve the highest level of waste diversion from landfills, and highest dollar value for the quality of materials, the Project would source separate (segregate) clean recyclable materials on the site by material type, to the maximum extent practicable, and divert them for recycling or reuse at City-certified facilities specializing in each material type.

3.1 DEMOLITION

Prior to initiation of the Project's construction activities, site preparation would require clearing/ grubbing, grading, and demolition of the existing structures. Clearing and grubbing would require removal of existing vegetation. The existing structures, including two reservoirs, a pump station, pipelines, fencing, and an access road would be demolished. These demolition activities are described below.

3.1.1 Structure Demolition

The existing structures include two reservoirs and associated components that are proposed to be demolished as part of the Project. Specifically, the La Jolla View Reservoir would be completely demolished, and the top three feet of the Exchange Place Reservoir would be demolished.

The existing La Jolla View Reservoir to be demolished has a footprint of 3,850 SF. The reservoir walls and roof are constructed of steel plates and the base is constructed of concrete. The associated 16-inch pipe is made of cast iron. A breakdown of the La Jolla View Reservoir demolition by component and material type is provided below.

- **Tank metal**: The tank body and roof are composed of 15,000 SF of steel plating, as provided by the Applicant. A 0.5-inch tank wall thickness was assumed. Multiplying 15,000 SF by 0.5 inches equates to 625 cubic feet (CF), which, when divided by 27 to convert to CY, amounts to 23 CY of steel.
- **Tank concrete**: The volume of concrete for the La Jolla View Reservoir to be demolished was provided by the Applicant and equals 75 CY.
- **Pipe metal**: The existing 50 LF of 16-inch cast iron pipe associated with the La Jolla View Reservoir would be demolished. A conservative one-inch pipe wall thickness was assumed. The surface area (SA) of the pipe, without the ends included, was calculated using:

The radius of the 16-inch pipe is eight inches (2/3rds of a foot), and the length is 50 feet.

Multiplying the SA by the wall thickness of one inch (1/12th of a foot) equates to a volume of 17 CF, which, when divided by 27 to convert to CY, amounts to 0.63 CY of metal.

The Exchange Place Reservoir to be demolished has a footprint of 11,700 SF and is constructed of concrete, with a wood and metal roof. The first three feet of concrete would be demolished. The associated pump station, vaults, stairs, and landing are also constructed of concrete. The 8-inch pipe is



made of cast iron. A breakdown of the Exchange Place Reservoir demolition by component and material type is listed below.

- **Reservoir, pump station, vault, stairs, and landing concrete**: The volume of concrete for the first three feet of the La Jolla Exchange Reservoir, pump station, vault, stairs, and landing was provided by the Applicant, and equals 40 CY.
- **Roof wood**: The volume of the entire roof (wood and metal) was provided to be 6,000 CF. It was assumed that half, or 3,000 CF, is wood. 3,000 CF, divided by 27 to convert to CY, equates to 111 CY of wood. It was further assumed that approximately half of this wood would be treated, and half would be clean.
- **Roof metal**: As noted above, the volume of the entire roof (wood and metal) was provided to be 6,000 CF. As noted above, it was assumed that half, or 3,000 CF, is metal. 3,000 CF, divided by 27 to convert to CY, equates to 111 CY of metal.
- **Pipe metal**: Forty LF of 8-inch diameter cast iron pipe is associated with the Exchange Place Reservoir and would be demolished. A conservative half-inch pipe wall thickness was assumed. The surface area (SA) of the pipe, without the ends included, was calculated using:

SA = 2*∏*radius*length

The radius of the 8-inch pipe is four inches $(1/3^{rd} \text{ of a foot})$, and the length is 40 feet.

Multiplying the SA by the wall thickness of one half-inch (1/24th of a foot) equates to a volume of 3.5 CF, which, when divided by 27 to convert to CY, amounts to 0.13 CY of metal.

3.1.2 Salvage

No salvage of materials from the existing structures is proposed.

3.1.3 Recycling

It is assumed that 20 percent of each material associated with structure demolition would qualify as "mixed debris." These materials would be too damaged or mixed to be source separated into clean materials. It is also assumed that eight percent of each material would qualify as "trash," to account for miscellaneous, non-recyclable materials that would be generated during structure demolition. Treated wood, in addition to approximately eight percent of demolition waste, would not be recyclable. These materials would be disposed of at the Miramar Landfill at a zero percent diversion rate. The additional 20 percent of "mixed debris" demolition materials would be disposed of at a City-approved mixed debris materials recycling facility at a minimum 71 percent diversion rate (refer also to Appendix B).

3.1.4 Access Road/Pavement Demolition

The existing Encelia Drive asphalt access road that leads from Brodiaea Way to the La Jolla View Reservoir, as well asphalt pavement associated with the Exchange Place Reservoir, would be demolished. Demolition estimates for these materials have been calculated below:



• It is assumed that the paved asphalt is three inches (1/4th of a foot) thick. The access road covers 11,700 SF and the additional paved area covers 300 SF. The total of 12,000 SF multiplied by the 0.25-foot thick asphalt, equates to 3,000 CF, which, when divided by 27 to convert to CY, comes out to 111 CY of asphalt.

Salvage

No salvage of materials from the existing access road and other pavement is proposed.

Recycling

The diversion rate for asphalt is 100 percent (see Appendix B). Therefore, the entire quantity of asphalt from the access road and paved areas would be diverted and recycled.

3.2 CLEARING AND GRUBBING

The Project impact area to vegetation was estimated at 7.21 acres (Rocks Biological Consulting 2016). On-site vegetation in the Project area is dominated by chaparral vegetation (approximately one to five feet in height, with an estimated average of three feet); chaparral and similar vegetation communities would represent 6.45 acres, or 280,962 SF, of the impact area. The site also contains occasional trees such as eucalyptus (approximately 10 to 40 feet in height, with an estimated average height of 20 feet); these trees represent 0.76 acre, or 33,105 SF. The area of the chaparral vegetation multiplied by the average vegetation height of three feet equates to 842,886 CF. The area of the trees multiplied by the average height of 20 feet equates to 662,100 CF. Therefore, the total volume of vegetation is 1,504,986 CF, which, when divided by 27 to convert to CY, amounts to 55,740 CY of vegetation.

3.2.1 Salvage

The existing vegetation is assumed to be removed and not salvaged on site.

3.2.2 Recycling

Vegetation would be processed and recycled at a target rate of 100 percent diversion at Miramar Greenery, a City-certified green waste recycling facility. The City's 2018 Certified Construction & Demolition Recycling Facility Directory (Appendix B) states the diversion rate for clean source-separated materials shall be 100 percent. Other waste materials associated with the clearing and grubbing are anticipated to include negligible amounts of waste generated by contractors working on the site during the clearing and grubbing process.

3.3 GRADING

Grading is anticipated to require 78,000 CY of cut. Of that total, 56,000 CY would be used as fill on site; the remaining 22,000 CY would be exported and disposed of offsite.

Excavated soil is anticipated to be diverted at a rate of 100 percent to one of the facilities from the City's 2018 Certified Construction & Demolition Recycling Facility Directory (Appendix B). Certified facilities include the following:



- Hanson Aggregates West, Miramar, 9229 Harris Plant Road, San Diego, CA 92126
- Vulcan Carol Canyon Landfill and Recycle Site, 10051 Black Mountain Road, San Diego, CA 92126
- Enniss Incorporated, 12421 Vigilante Road, Lakeside, CA 92040
- Moody's, 3210 Oceanside Boulevard, Oceanside, CA 92056
- Robertson's Ready Mix, 2094 Willow Glen Drive, El Cajon, CA 92019

Other waste materials associated with grading are anticipated to include negligible amounts of waste generated by contractors working on site during the grading process.

3.4 SUMMARY OF PRE-CONSTRUCTION DEMOLITION, CLEARING AND GRUBBING, AND GRADING WASTE GENERATION AND DIVERSION

As discussed above, the waste materials to be generated during demolition, clearing and grubbing, and grading for Project implementation would be source separated for recycling or reuse at City-certified facilities specializing in each material type, as applicable. A summary of anticipated waste generation volumes and diversion rates for pre-construction activities is provided in Table 2, *Pre-Construction Demolition, Clearing/Grubbing, and Grading Solid Waste Generation, Diversion Rates, and Facilities.* As shown in Table 2, during pre-construction the Project would generate 37,290 tons of solid waste.

3.4.1 Salvage

Demolition of the two reservoirs and associated components, access road, and other paved areas would generate salvageable materials. However, as no specific inventory of reusable items has been conducted at this preliminary stage and no salvage plan has been prepared, no salvage is proposed.

3.4.2 Recycling

Materials generated during pre-construction demolition, clearing and grubbing, and grading that are designated for recycling would be source separated on site during these activities. The City's 2018 *Certified Construction & Demolition Recycling Facility Directory*, updated quarterly, states the diversion rate for these materials shall be 100 percent, except mixed C&D debris which achieves a maximum 90 percent diversion rate at the EDCO CDI Recycling and Buy Back Center (City 2018).



Source of Material	Material	Volume (CY)	Tons/Unit Conversion Factor	Tons	Diversion Rate (Percent)	Facility/ Destination of Materials	Tons Diverted	Tons Disposed
	Concrete	82	1.2	98	100%	A	98	0
Deservative and	Clean Wood	40	0.15	6	100%	В	6	0
Reservoirs and	Treated Wood	40	0.15	6	0%	C	0	6
Associated	Metal	97	0.51	50	100%	А	50	0
Components	Mixed Debris	72	1.19	86	71%	А	61	25
	Trash	30	0.18	5	0%	C	0	5
Access Road/Paved Areas	Asphalt	111	0.7	78	100%	А	78	0
Clearing/ Grubbing	Vegetation Debris	55,740	0.15	8,361	100%	В	8,361	0
Grading	Excavated Earth	22,000	1.3	28,600	100%	А	28,600	0
	·		TOTAL	37,290	99.9%		37,254	36

 Table 2

 PRE-CONSTRUCTION DEMOLITION, CLEARING/GRUBBING, AND GRADING

 SOLID WASTE GENERATION, DIVERSION RATES, AND FACILITIES

Sources: City's 2018 Certified Construction & Demolition Recycling Facility Directory (City 2018; Appendix B), City's C&D Debris Conversion Rate Table (City 2016b; Appendix C) Facility/Destination Key:

A. Appropriate facility on City's 2018 Certified Construction & Demolition Recycling Facility Directory

B. Miramar Greenery, 5180 Convoy Street, San Diego, CA 92111

C. Miramar Landfill, 5180 Convoy Street, San Diego, CA 92111

Notes:

- Table information subject to field verification during pre-construction.
- The Applicant would contract with source separating recycling facilities listed in the City's 2018 Certified Construction & Demolition Recycling Facility Directory (City 2018) with an equal or greater diversion rate to ensure diversion rates meet those estimated in this table.
- For estimation purposes, wood waste materials are split approximately 50 percent clean and 50 percent treated to conservatively account for inability to recycle treated wood.
- Total diversion rate based on the percentage of total tons of waste diverted over the total tons of waste generated.

• CY= cubic yards



4.0 CONSTRUCTION WASTE GENERATION AND DIVERSION

To estimate the quantity of waste generated during construction, the volume of each construction material to be used was calculated, then multiplied by 10 percent to account for waste generated during the construction process. A 10 percent construction waste generation rate is a very conservative figure, used here for analysis of the "worst-case" scenario based on the following reasoning:

- The cost of purchasing construction materials in excess of the quantity required is prohibitive.
- Many materials, such as piping, come prefabricated in specific sizes, such that the contractor can accurately predict and purchase the specific quantity that would be required.
- Contractors can return unused and unneeded items (such as piping) and/or utilize materials (such as concrete) on other projects.

4.1 ESTIMATED CONSTRUCTION WASTE GENERATION AND DIVERSION

A breakdown of the estimated amount of waste material from construction of the new La Jolla View Reservoir, associated pipelines, and access road/parking lot by component and material type is provided below.

- **Reservoir Concrete**: The Applicant provided that construction of the La Jolla View Reservoir would use 2,700 CY of concrete. The application of a 10 percent waste generation results in 270 CY of concrete waste.
- **Pipe Metal**: 2,790 LF of 30-inch steel pipe would be constructed. A conservative one-inch pipe wall thickness was assumed. The surface area of the pipe, without the ends included, was calculated using:

$$SA = 2^{*}\Pi^{*}radius^{*}length$$

The radius of the 30-inch pipe is 15 inches (1.25 feet), and the length is 2,790 feet.

Multiplying the SA by the wall thickness of one inch $(1/12^{th} \text{ of a foot})$ equates to a volume of 1,825 CF, which, when divided by 27 to convert to CY, amounts to 68 CY of steel. The application of a 10 percent waste generation results in 6.8 CY of metal waste.



An additional 200 LF of 18-inch steel pipe would be constructed. A conservative one-inch pipe wall thickness was assumed. The surface area of the pipe, without the ends included, was calculated using:

The radius of the 18-inch pipe is 9 inches (0.75 foot), and the length is 200 feet.

Multiplying the SA by the wall thickness of one inch $(1/12^{th} \text{ of a foot})$ equates to a volume of 79 CF, which, when divided by 27 to convert to CY, amounts to 3 CY of steel. The application of a 10 percent waste generation results in 0.3 CY of metal waste.

- Pipe PVC: 1,260 LF of 8-inch PVC pipe would be constructed. The PVC pipes are assumed to be Schedule 80 with a half-inch wall thickness. Schedule 80 PVC with an eight-inch diameter and a half-inch wall thickness weighs eight pounds per foot (The Engineering ToolBox 2018). Multiplying 1,260 LF by eight pounds per foot results in a total weight of 10,080 pounds, or 5 tons. The application of a 10 percent waste generation factor results in 0.5 ton of industrial plastic waste.
- Access Road/Parking Area Asphalt: 7,400 SF of access road and parking area would be constructed as part of the Project. It is assumed that the paved asphalt areas are three inches (0.25 foot) thick. The 7,400 SF multiplied by a thickness of 0.25 feet equates to a volume of 1,850 CF, which, when divided by 27 to convert to CY, amounts to 69 CY. The application of a 10 percent waste generation results in approximately 7 CY of asphalt waste.

To account for excess reservoir and pipeline construction materials that are too damaged or mixed to be source separated into clean materials, it is assumed that 20 percent of each construction material would qualify as "mixed debris." It is also assumed that eight percent of each material would qualify as "trash," to account for miscellaneous, non-recyclable materials such as corrugated cardboard packaging and industrial plastic wraps and fasteners that would be generated during construction. Anticipated Project construction waste generation is shown in Table 3, *Construction Solid Waste Generation, Diversion Rates, and Facilities.*



Source of Material	Material	Volume (CY)	Tons/Unit Conversion Factor	Tons	Diversion Rate (Percent)	Facility/ Destination of Materials	Tons Diverted	Tons Disposed
	Concrete	194	1.2	233	100%	А	233	0
	Metal	5	0.51	2.5	100%	A	2.5	0
Reservoir and Pipelines	Industrial Plastic (PVC)			0.5	100%	А	0.5	0
	Mixed Debris	55	1.19	65.5	71%	A	46.5	19
	Trash	22	0.18	4	0%	С	0	4
Access Road/Parking Areas	Asphalt	7	0.7	5	100%	А	5	0
			TOTAL	310.5	93%		287.5	23

 Table 3

 CONSTRUCTION SOLID WASTE GENERATION, DIVERSION RATES, AND FACILITIES

Sources: City's 2018 Certified Construction & Demolition Recycling Facility Directory (City 2018; Appendix B), City's C&D Debris Conversion Rate Table (City 2016b; Appendix C) Facility/Destination Key:

A. Appropriate facility on City's 2018 Certified Construction & Demolition Recycling Facility Directory

B. Miramar Greenery, 5180 Convoy Street, San Diego, CA 92111

C. Miramar Landfill, 5180 Convoy Street, San Diego, CA 92111

Notes:

- Table information subject to field verification during pre-construction.
- The Applicant would contract with source separating recycling facilities listed in the City's 2018 Certified Construction & Demolition Recycling Facility Directory (City 2018) with an equal or greater diversion rate to ensure diversion rates meet those estimated in this table.
- Total diversion rate based on the percentage of total tons of waste diverted over the total tons of waste generated.
- CY= cubic yards
- The cubic yardage of Industrial Plastics was not calculated because a tons/unit conversion factor was not provided. The linear footage of PVC was provided by the Applicant, and a pounds per foot conversion factor was used to calculate the weight.



4.2 PROPOSED POST-CONSUMER CONTENT CONSTRUCTION MATERIALS

In order to further minimize waste, the Project would utilize recycled content construction materials, where feasible. Given the preliminary nature of the Project plans, a minimum target of five percent is anticipated, with verification of purchase of materials equating to this target to be provided prior to or during the pre-construction meeting. A goal of 10 percent or more has also been set. See Section 6.1, for the construction waste management, coordination, and oversight measures that would be implemented pursuant to this WMP.

5.0 OPERATIONAL WASTE GENERATION AND DIVERSION

Operation of the Project would not include components that would have the potential to generate significant long-term waste. Maintenance activities associated with the reservoir would involve weekly visits to the site for routine valve, structure, and equipment inspection. Site visits for revegetation maintenance and monitoring would occur on an as-needed basis for five years and would include activities such as replacing unhealthy or dead plants, providing supplemental water to plants, addressing erosion control needs, and weeding undesirable non-native plant species. Revegetation maintenance and monitoring would be temporary and would generate a negligible amount of waste compared to waste generated during Project demolition and construction. Diversion, reduction, and recycling measures for operational waste are therefore not necessary or required.

6.0 WASTE REDUCTION, RECYCLING, AND DIVERSION MEASURES

The Applicant is committed to waste reduction during all aspects of Project demolition, clearing and grubbing, grading, and construction, and would incorporate the Waste Diversion Measures (WDM) described below to ensure compliance with applicable solid waste disposal and waste reduction regulations and ordinances. Mandatory compliance with these measures shall be included in all Project contractor agreements, clearly reflected on Project plans, and verifiable by City ESD staff through written submittals and/or site inspections as described below.

6.1 CONSTRUCTION WASTE MANAGEMENT, COORDINATION, AND OVERSIGHT

6.1.1 Contractor Agreements and City Coordination

All WDM described herein shall be included as part of contractor agreements and clearly reflected on Project plans identifying activities required to be undertaken during demolition, clearing, grading, and construction. These measures shall also be provided in checklist format to City ESD staff prior to the initiation of any activities identified in the WMP. ESD staff shall be allowed access to the Project site, Project plans, and contractor education program meetings and materials (described below) to verify conformance with these measures.



6.1.2 Designation of a Solid Waste Management Coordinator

Prior to initiation of any construction, clearing, grubbing, or grading activities on site, the Applicant shall designate a SWMC for the property with the authority to provide guidelines and procedures for contractor(s) and staff to implement waste reduction and recycling efforts. These responsibilities shall include, but are not limited to, the following:

- Prepare a Contractor Education Program on the waste separation and diversion/disposal procedures specified in this WMP. The Contractor Education Program shall contain, at a minimum, the following information:
 - Written and visual description of each waste type required to be source separated
 - Written and graphic description of how each waste type must be treated prior to and during source separation
 - o Direction on which waste types go to mixed-debris facilities
 - o Direction on which waste types go to Miramar Landfill
 - o Direction on materials requiring special handling, such as hazardous materials
 - \circ $\;$ Contact for designated contractor in case of questions or emergency
 - o Contact at City ESD in case of questions or emergency
 - Phone number, address, and telephone contact information for each contracted hauler and disposal/diversion facility to be utilized
- Ensure the correct number and signage of bins, as specified in this WMP.
- Ensure a maximum five percent contamination by different waste types/non-recyclable materials by weight in the bins.
- Ensure no overtopping of bins occurs.
- Work with contractor(s) to refine estimated quantities of each type of material that would be recycled, reused, or disposed of as waste, then assist contractor(s) with documentation of that waste through receipts at each recycling and landfill facility identified in this WMP, or as otherwise agreed to by ESD staff.
- Issue stop work orders if procedures and standards specified in this WMP are not being followed/met.
- Coordinate with ESD and/or Mitigation Monitoring staff, including regular communication and invitations to the work site, and ensure appropriate staff members are involved at every stage.
- Ensure ESD staff attendance at the contractor education meeting and pre-construction meetings of each phase of the development.



6.1.3 Contractor Waste Management Training

The Project's SWMC or an ESD-approved contractor designee shall carry out Contractor Education Program presentations ensuring Project personnel are trained regarding content and requirements of this WMP. Prior to beginning work on any portion of the Project, each member of the team, including all workers, subcontractors, and suppliers, shall be provided with a copy of the WMP, and undergo training on proper waste management procedures applicable to the Project.

- The Project's SMWC, or ESD-approved Contractor-designee shall carry out contractor waste management training presentations for each new group or individual hired, contracted, or assigned to work on the Project.
- The SMWC and/or Contractor-designee shall ensure that each person working on the Project has completed the waste management training by maintaining a written log to be signed and dated by each trainee upon completion of the training program. Copies of this written log, along with a list of all applicable personnel, shall be provided to City ESD staff for verification during each phase of Project activities.

6.1.4 Daily Site Inspections by Contractor(s)

The Project contractor(s) shall conduct daily inspections of the construction site to ensure compliance with the requirements of this WMP and with all other applicable laws and ordinances. Daily inspections shall include verifying the availability and number of dumpsters based on amount of debris being generated, verifying trash and recycled materials dumpsters are correctly labeled, ensuring proper sorting and segregation of materials, and ensuring excess materials are properly salvaged. The Project contractor(s) shall report the results of the daily site inspections to the SWMC.

6.1.5 Regular Removal of Waste Materials

The Project contractor(s) shall ensure removal of construction waste materials in sufficient frequency to prevent over-topping of bins. The accumulation and burning of on-site grading/ land-clearing and construction waste materials shall be prohibited.

6.1.6 City Verification

The Applicant shall ensure a representative of the City's ESD attends pre-construction meetings prior to demolition, clearing, grading, and construction to ensure that the following items are verified:

- Material segregation, recycling, and reuse is occurring per the WMP;
- Soil is being transported to an appropriate facility for reuse;
- Grubbed materials are sent to a suitable green waste recycling facility;
- Contract documents have appropriate estimates and constraints to avoid "overbuying" construction materials;
- Contract documents specify methods to achieve five percent post-consumer content goal;



- Contamination levels (i.e., different waste types/non-recyclable materials) do not exceed five percent by weight;
- An appropriate diversion rate (as specified in this WMP) has been included on the deposit form;
- Contract documents specify agreements for each recyclable/reusable material type to be taken to an appropriate recycling/reuse facility, as specified in this WMP; and

6.2 CONSTRUCTION WASTE REDUCTION, DIVERSION COMPLIANCE, AND VERIFICATION

6.2.1 Identification, Separation, and Diversion of Recyclable/Reusable Materials

The Applicant shall ensure that:

- Throughout Project activities, waste materials shall be source separated on site into the appropriate bin based on materials type, according to the categories in this WMP. Materials generated during demolition, clearing, grading, and construction that would be source separated and recycled are listed below:
 - Mixed C&D (wood, dirt, concrete, metals, rock, asphalt, industrial plastics, cardboard)
 - o Metals
 - Concrete/Asphalt
 - o Wood
 - Industrial Plastics
 - o Clean fill dirt
 - o Green waste
- A separate bin for each clean waste material type to be generated during each phase of demolition, clearing, grading, and construction activity shall be provided on the site, subject to the following requirements:
 - Containers shall be clearly labeled, with a list of acceptable and unacceptable materials. The list of acceptable materials must be the same as the materials recycled at the receiving material recovery facility or recycling processor.
 - The collection containers for recyclable grading/land-clearing and construction waste shall contain no more than five percent non-recyclable materials, by weight.
 - Regular visual inspections of dumpsters and recycling bins shall be conducted to remove contaminants.



- Recycling areas shall be clearly identified with large signs. Lists of acceptable and unacceptable materials shall be posted on recycling bins and throughout the Project site and all recycled material signage shall be visible on at least two sides of haul containers.
- Recycling bins shall be placed in areas that would be readily accessible and would minimize misuse or contamination. The SWMC shall be responsible for these efforts and they shall be reviewed at pre-construction meetings and/or during contractor education meetings, if conducted separately.
- Recyclable and/or reusable waste materials collected in source-separated bins shall be diverted to recycling/reuse facilities as designated in Tables 2 and 3 of this WMP, or to another facility listed on the City's 2018 Certified Construction & Demolition Recycling Facility Directory, should the designated facilities not be available.

6.2.2 Source Reduction Measures

Project contractors and subcontractors, in cooperation with the Project's SWMC and ESD staff, as applicable, shall coordinate to minimize the over-purchasing of construction materials to lower the amount of materials taken to recycling and disposal facilities. The Project shall minimize over-purchasing through purchase of pre-cut materials, whenever feasible. The following steps shall be undertaken:

- Detailed material estimates shall be used to reduce risk of unplanned and potentially wasteful material cuts.
- Contractor and subcontractor material purchasing agreements shall include a waste reduction provision requesting that: materials and equipment be delivered in packaging made of recyclable material; vendors reduce the amount of packaging; packaging be taken back by vendors for reuse or recycling; and vendors take back all unused product. Contracts containing this language shall be made available to ESD staff during ESD site visits for inspection.
- Post-consumer content products shall be employed in the design and construction of the new
 facilities with the goal of achieving five percent post-consumer content materials. Efforts to use
 post-consumer content may include using products manufactured with post-consumer content
 materials (i.e., products that were bought, used, and recycled by consumers), such as natural
 textiles, aggregate, or concrete. Receipts demonstrating post-consumer content shall be
 provided to ESD staff at or prior to the pre-construction meetings.
- Prior to submittal, final Project plans shall indicate the anticipated source and quantity of materials to be reused on site, and the source, quantity, and percentage of post-consumer content waste products anticipated to be utilized for Project construction.
- Contractors shall include the anticipated source and quantity of post-consumer content products proposed for reuse or purchase in their project bid.
- Final Project plans inclusive of the information above shall be provided to ESD for verification.



7.0 CONCLUSION

As discussed under Regulatory Framework, a project may result in a significant direct impact under the City CEQA Significance Thresholds if it generates more than 1,500 tons of solid waste materials during C&D. Projects that include the construction, demolition, and/or renovation of 40,000 SF or more of building space or generate approximately 60 tons of waste or more are considered to have potentially significant cumulative impacts on solid waste services. Further, AB 341 requires the diversion of 75 percent of solid waste and mandatory provision of recycling collection service during occupancy.

7.1 SUMMARY OF WASTE GENERATION AND DIVERSION

During pre-construction demolition, clearing/grubbing, and grading, the Project would produce 37,290 tons of excavated soils, green waste, asphalt/concrete, wood, metal, industrial plastics, and other C&D waste, and would divert 37,254 tons of these materials from the landfill, as identified in Table 2. Approximately 36 tons of solid waste material generated during pre-construction is anticipated to be disposed of as non-recyclable/non-reusable waste at Miramar Landfill, for an overall pre-construction diversion rate of 99.9 percent.

During construction, the Project would produce 310.5 tons of solid waste (metal, concrete, asphalt, industrial plastics, mixed debris, and trash), and divert 287.5 tons of solid waste materials from the landfill, as identified in Table 3. The diverted material would consist of clean, source-separated (segregated) recyclable and/or reusable material, as well as mixed debris, to be deposited at the recycling/reuse facilities identified in the City's *2018 Certified Construction & Demolition Recycling Facility Directory* (Appendix B; City 2018). Approximately 23 tons of solid waste material generated during construction is anticipated to be disposed of as non-recyclable/non-reusable waste at the Miramar Landfill, for an overall diversion rate during construction of approximately 93 percent.

With the combined pre-construction and construction phases, the Project would produce 37,600 tons of solid waste and would divert 37,541 tons. This would be an overall diversion rate during pre-construction and construction of 99.8 percent.

During operation, the Project is anticipated to generate a negligible amount of waste and would not require diversion of waste to facilities identified in the City's 2018 Certified Construction & Demolition Recycling Facility Directory (Appendix B; City 2018) or disposal of non-recyclable/non-reusable waste at the Miramar Landfill.

7.2 COMPLIANCE WITH CITY AND STATE REGULATIONS

Project compliance with City and State regulations is addressed below.

7.2.1 State of California

Based on the quantified waste generation and diversion rates discussed above, the Project would exceed the 75 percent solid waste diversion rate for waste produced during the pre-construction and construction phases. Operation of the proposed Project would generate a negligible amount of waste. Therefore, the Project would be consistent with the requirements of AB 341.



7.2.2 City of San Diego

Based on the quantified waste generation and diversion rates discussed above, the Project would result in a less than significant impact regarding the following City thresholds related to direct solid waste impacts during construction:

- The Project's impacts would be reduced to below the City's CEQA Significance Determination Threshold (generation of more than 1,500 tons of solid waste materials that would be disposed of) for direct impacts to solid waste facilities during demolition and construction (36 + 23 = 59 tons of solid waste materials during C&D to Miramar Landfill) through compliance with the diversion measures outlined in this WMP.
- The Project would exceed the 75 percent solid waste diversion rate for waste produced during construction by achieving an overall 99.8 percent diversion rate through compliance with the diversion measures outlined in this WMP.

Regarding cumulative impacts with implementation of the diversion measures outlined in this WMP, the Project's solid waste impacts would be reduced to below the City's potentially significant solid waste impact threshold of 60 tons of waste during C&D, since approximately 59 tons are anticipated to be disposed of at the Miramar Landfill during C&D and negligible waste would be generated during operation.

Given the aforementioned, because the Project would not generate operational waste and would comply with waste diversion measures included in this Project-specific WMP, including implementation of the construction waste reduction measures described in Sections 6.1 and 6.2, the Project's direct solid waste impact would be less than significant and the Project's contribution to a cumulative solid waste impact would be less than cumulatively considerable.



8.0 **REFERENCES**

City of San Diego (City)

- 2018 2018 Certified Construction & Demolition Recycling Facility Directory. Environmental Services Department. January 1. <u>https://www.sandiego.gov/sites/default/files/2018_certified_construction_demolition_recycling_facility_directory.pdf</u>.
- 2016a Construction and Demolition (C&D) Debris Recycling Fact Sheet. June 29. Available at: <u>https://www.sandiego.gov/sites/default/files/legacy/development-</u> <u>services/pdf/industry/infobulletin/cd_fact_sheet_6_29_16.pdf</u>.
- 2016b City of San Diego Construction & Demolition C&D Debris Conversion Rate Table. June 6.
- 2016c California Environmental Quality Act Significance Determination Thresholds. Development Services Department. Available at: <u>http://www.sandiego.gov/development-services/pdf/news/sdtceqa.pdf</u>. January, as amended.
- 2015 City of San Diego Zero Waste Plan. July. Available at: <u>https://www.sandiego.gov/sites/default/files/legacy/mayor/pdf/2015/ZeroWastePlan.p</u> <u>df</u>.
- 2013 California Environmental Quality Act: Guidelines for a Waste Management Plan. June. Available at: <u>http://www.sandiego.gov/environmental-</u> <u>services/pdf/recycling/wmpguidelines.pdf</u>.
- 2008 Construction and Demolition Debris Deposit Ordinance (Municipal Code Chapter 6, Article 6, Division 6). January 1.
- 2007 Recycling Ordinance (Municipal Code Chapter 6, Article 6, Division 7). November.

Rocks Biological Consulting

2016 La Jolla View Reservoir Replacement Project Biological Resources Report. February 5.

The Engineering Toolbox

2018 PVC and CPVC Pipes – Schedule 40 & 80. January 2018. Available from: https://www.engineeringtoolbox.com/pvc-cpvc-pipes-dimensions-d_795.html

State of California (State)

1989 California Integrated Waste Management Act of 1989. State of California Assembly Bill 939.



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Appendix A

Project Plans

	RACTOR'S RESP									
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A JOLLA VIEW SERVOIR PROJECT

LIMITS

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CONSTRUCTION CONSISTS OF THE DEMOLITION OF THE EXISTING LA JOLLA VIEW RESERVOIR (LJVR) AND THE EXISTING LA JOLLA EXCHANGE PLACE RESERVOIR (LJEPR) AND PLIMP STATION

		SIZE (IN)	MATERIAL	(FT)			
RESERVOIR	L	1	1	1	 PLACE RESERVOIR (LJEPR) AND F CONSTRUCTION OF A NEW 3.IMG VIEW RESERVOIR, REPLACEMENT 	; LA JOLLA	6" FIRE HYDRAN & MARKER 2-F
T TAL PERMITS AND NOTES					MUIRLANDS PIPELINE WITH A NEW WATERLINE, CONSTRUCTION OF A	N 30"STEEL	SPECIFIED AS
CE OF WORK SITE ACCESS					RESERVOIR INLET/OUTLET PIPEL AND FINAL GRADING OF THE SIT	INE, ROUGH GRADING ES, SITE	I" WATER SERVI UNLESS OTHER
LIMITS DEMOLITION PLAN					IMPROVEMENTS AT THE RESERVO	OF THE DISTURBED	UNLESS OTHER
ING PLAN - LJVR ING PLAN - LJVR	WATER				AREAS, AND ALL OTHER WORK S PLANS AND SPECIFICATIONS.	RANCHO BERNARDO	WATER SERVICI
	STA 1+00.00 TO STA 9+00.00	30" 30"	CML&TC			AINCHU BERINARDU	BLOW-OFF ASS
UB DRIVE UB DRIVE TO ATURAL PARK	STA 9+00.00 TO STA 16+00.00 STA 16+00.00 TO STA 23+00.00	30"	CML&⊺C CML&⊺C	700.00 700.00		POWAY	AIR & VACUUM
ATURAL PARK	STA 23+00.00 TO STA 28+86.00	30"	CML&TC/	586.00	DEL MAR 56		
VE	STA 40+00.00 TO STA 44+78.96	8"/4"	CML&C PVC	478.96			WATER VALVE
UB DRIVE PLAN - LJVR	STA 60+00.00 TO STA 67+82.67	8"	PVC	782.67			CUTTING AND I
PROFILE AND ELEVATIONS					LA JOLLA		ABANDON WATE
NG PLAN - LJVR NG PLAN - LJVR						LA MESA	SURVEY MONUN
SECTIONS - LVJR SITE PLAN - LVJR					I SAN DIEGO	8	CUTOFF WALL
T SITE PLAN/ T/HEADWALL SITE PLAN						94	WIRE TEST ST
					CORONADO		PIPE SUPPORT
ALVE VAULT PLAN/SECTION ACCESS SHAFT PLAN/SECTION					00047	NATIONAL CITY	OR SEWER LAT
CESS SHAFT PLAN/SECTION							PIPE SUPPORT
						CHULA VISTA	HIGHLINING BY
							PROTECTION PO
IDONMENT PLAN URFACING PLAN		TOTAL	WATER	4,047.63		S. A. SAN YSIDRO	ENERGY DISSIP
PLAN		-				MEXICO	HEADWALLS
DETAILS I DETAILS 2]	SD CLEANOUT
MENT COORDINATE INDEX REPOR MENT COORDINATE INDEX REPOR					VICINITY MA	<u>P</u>	FOR ADDITION
GENERAL NOTES I		1 ſ	76	L-I	TEMPORARY IRRIGATION PLAN AT		AND TRAFFIC
. GENERAL NOTES 2 FOUNDATION PLAN			77 78	L-2 L-3	RE-VEGETATION PLAN AT I	OIR SITE	
ROOF FRAMING PLAN SECTION			79 80	L-4 L-5	RE-VEGETATION PLAN ATRESERVOI		EX WATER MA
. DETAILS I . DETAILS 2			PAR	Т2 -	LA JOLLA EXCHANGE PLACE RESER	۷OIR	EX WATER ME
. DETAILS 3 . DETAILS 4			81 82	D-2 D-3	EXIST LJEPR DEMOLITION PLAN DEMOLITION PLAN DETAILS - LJEP	R	EX FIRE HYDF
. DETAILS 5 . DETAILS 6			83 84	C-18 L-6	FINAL GRADING/PAVING PLAN - LJ IRRIGATION PLAN & LEGEND - LJE		EX SEWER MA
DETAILS 7 DETAILS 8			85 86	L-7 E-19	RE-VEGETATION PLAN - LJEPR ELECTRICAL DETAILS - LJEPR		EX SEWER SE
DETAILS 9 DETAILS 10		-			3 TRAFFIC CONTROL PLANS		EX DRAINS
DETAILS II			DISCIPLI				EX PAVEMENT
LECTRICAL SYMBOLS AND ABBF SITE PLAN	REVIATIONS			ERAL			EX GROUND L
POWER AND SIGNAL PLAN PUMP STATION AND VALVE VAL	ПΤ		D DEM C CIVIL	OLITION			EX GAS MAIN
DIAGRAM AND ELECTRICAL SCH DETAILS			L LAN	DSCAPE			EX ELEC.CON
ION SYSTEMS ARCHITECTURE RIO PANEL CONTROL DIAGRAM -				UCTURAL HANICAL			EX FIBER OP
RIO PANEL CONTROL DIAGRAM - RIO PANEL CONTROL DIAGRAM - RIO PANEL CONTROL DIAGRAM -	2			CTRICAL RUMENTA			EX FUEL LINE
RIO PANEL CONTROL DIAGRAM -			CP CAT	HODIC PF	ROTECTION		EX RAILROAD,
RIO PANEL LAYOUT DIAGRAM T RIO PANEL CONTROL DIAGRA				FFIC CON URITY AN	NTROL ND COMMUNICATIONS		
T RIO PANEL CONTROL DIAGRA T RIO PANEL CONTROL DIAGRA	M - 3				IHEREBY DECLARE THAT IAM EXERCISED RESPONSIBLE CHA		
T RIO PANEL CONTROL DIAGRA					SECTION 6703 OF THE BUSIN CONSISTENT WITH CURRENT S	ESS AND PROFESSION	NS CODE, AND TH
PUMP STATION RCP PANEL LAY	OUT DIAGRAM	-			DRAWINGS AND SPECIFICATION ONLY AND DOES NOT RELIEV	IS BY THE CITY OF S	SAN DIEGO IS CO
ND COMMUNICATION		-			PROJECT DESIGN.		
ROTECTION DETAILS ROTECTION DETAILS ROTECTION DETAILS				r	ANDERS EGENSE RCE CO406		DA
		-		ŀ	CONSTRUCTION SITE STORM WATER PRIORITY (INS		X_ MEDIUM LOW.
					AS-BUILT INF	ORMATION	
				ŀ	MATERIALS	MANUFACT	URER
		SAN DIEGO	·STATE QE	ŀ	PIPE CL 235 (WATER) PIPE CL 305 (WATER)		
SAN DIEGO	(ŀ	STEEL PIPE	-	
				F			

SIZE (IN) MATERIAL (FT)

ORKS PROJECT



AS-BUILT INFORMATION					
MATERIALS	MANUFACTURER				
PIPE CL 235 (WATER)	-				
PIPE CL 305 (WATER)	-				
STEEL PIPE	-				
BUTTERFLY VALVE	-				
GATE VALVE	-				
FIRE HYDRANT	-				
BLOWOFF / AIR VALVE	-				

					ר
		<u>legend</u>			I
IMPROVEMENTS	5	STANDARD DRAWING	S SYMB	OL	
TRENCH RESURFAC		SDG-107, SDG-108			
WATER MAIN & AF	FO	SDW-110, SDW-148, SDW-151 (NO TB FOR 30" STEEL PIF R 16" PVC PIPE, JOINT REST STEM PER SPEC, SDW-161, SI	PE)		MIT
VALVES WITH CAP	S AND WELLS	SDW-109, SDW-152, SDW-153,SDW-154,WV-05	— (\geq
FIRE SERVICE CON & ASSEMBLY	INECTION	SDW-109, SDW-118, SDW-148, SDW-152, SDW-153	×10	(F)	Ξ
6" FIRE HYDRANT & MARKER 2-POR SPECIFIED AS 3-P	T UNLESS	SDW-104, SDW-109, SDW-148 SDW-152, SDW-153		SED WATER	\square
I" WATER SERVICE UNLESS OTHERWIS	c	SDW-107, SDW-134, SDW-13 DW-136, SDW-138,SDW-148,SD SDW-150, WS-03	J,		
WATER SERVICE T	RANSFER	SDW-149, SDW-150	√ 1	.L. (T)	\approx
BLOW-OFF ASSEM	BLY	SDW-106, SDW-143, SDW-144 SDW-145, SDW-146, WB-05	, B.0.		%00
AIR & VACUUM V	ALVE	SDW-117, SDW-148, SDW-158, SDW-159, SDW-160			$\left \begin{array}{c} 1 \\ 0 \\ \end{array} \right $
WATER VALVE BY	PASS	SDW-154	• 	<u>به</u>	
CUTTING AND PLU	IGGING ABANDONED WATER	MAIN WP-03	بي 	 Q	
ABANDON WATER		WP-03	- <u></u> /- <u></u> /-		
SURVEY MONUMEN		M-10		<u>ک</u>	
CUTOFF WALL		SDS-115	<u>ــــــ</u>		
WIRE TEST STATIO	ON			·	
		DETAILS 1&2 ON DWG CP-I	ł		
OR SEWER LATER	R UNDERCUT SEWER MAIN ALS	S SDW-161			
PIPE SUPPORT FO	R UNDERCUT AC WATER	MAIN SDW-162	<u></u>		
HIGHLINING BY COM	NTRACTOR	SDW-170, SDW-171, SDW-172 SDW-173	· IF APPL	ICABLE	
PROTECTION POST		WM-04	•	•	
ENERGY DISSIPATO)R	SDD-104	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	==:	$\widetilde{\mathcal{C}}$
HEADWALLS		SDRSD D-34	==		
SD CLEANOUT		SDRSD D-IO	===1		
EX WATER MAIN EX WATER METE EX FIRE HYDRAN EX SEWER MAIN EX SEWER SERVI EX DRAINS EX PAVEMENT (F EX GROUND LINE EX GAS MAIN	- & VALVES R/SERVICE LINE T & MANHOLES ICE LINES		EX BUS STOR EX TRAFFIC EX TRAFFIC EX STREET EX POWER P	LOOP	RESERVOI
EX ELEC. COND.,	TEL. COND., CATV	ET -C·			
EX FIBER OPTIC		FO			\geq
EX FUEL LINE		F			VIEW
EX RAILROAD, TR	COLLEY TRACKS		<u>↓</u>	G–1	
WORK FOR THIS PRO GN OF THE PROJECT)JECT, THAT IHAVE T AS DEFINED IN		THE CONSTRU		
NS CODE, AND THAT STAND THAT THE C	THE DESIGN IS HECK OF PROJECT	LA JOL	_A VIEW RESE	RVOIR	
SAN DIEGO IS CONF OF WORK, OF MY RE					
			COVER SHEET		
DATE					
X MEDIUM LOW		CITY OF SAN DI		WATER B-11070	
		PUBLIC WORKS SHEET I OF		SEWER NONE	
TURER	PROFESSIONA,	APPROVED: FOR CITY ENGINEER	DATE		ר
	J J S R S K EC	ALEX GARCIA	RCE#	PROJECT MANAGER CHECKED BY: ART ARVIZU	
	SI 938 No. 640654	DESCRIPTION BY A	PPROVED DATE FILMED	PROJECT ENGINEER	
	Ex 3-31-2015 *	ORIGINAL ××/××		SEE SHEETS CCS27 COORDINATE	
	OF CALIFOR			SEE SHEETS	
	CONTRACTOR	L D	ATE STARTED	CCS83 COORDINATE	
~ ~		DAT	E COMPLETED		J
10	υ%				

ENVIRONMENTAL NOTES:

SEQUENCE OF WORK NOTES:

THE CONTRACTOR SHALL PREPARE AND SUBMIT ACCORDANCE WITH THE PROJECT SPECIFICATIONS SEQUENCE OF WORK WHICH CORRESPONDS TO THE CONSTRUCTION SEQUENCE DESCRIBED BELOW. THE OF THE GENERAL CONSTRUCTION SEQUENCE BELC CONSTRUCT THE IMPROVEMENTS IN A MANNER WH SERVICE EXISTING FACILITIES THAT ARE CRITICAL DISTRIBUTION SYSTEM, MINIMIZES SHUTDOWN DURA REQUIRED), AND MINIMIZES THE IMPACT TO THE PI AND RESIDENTS THAT SURROUND THE PROJECT ACTIVITIES REQUIRED TO CONSTRUCT THE IMPRO BY THE CONTRACT DOCUMENTS ARE LISTED IN CONSTRUCTION SEQUENCE, HOWEVER, THIS SHALL RESPONSIBILITY OF THE CONTRACTOR TO PERFO REQUIRED BY THE CONTRACT DOCUMENTS, AND A CONSTRUCTION ACTIVITIES SHALL BE INCLUDED IN DETAILED SEQUENCE OF WORK. THE CONTRACTOR MODIFICATIONS TO THE GENERAL CONSTRUCTION BELIEVES THE INTENT DESCRIBED ABOVE CAN BE CITY SHALL HAVE FINAL AUTHORITY TO ACCEPT THE DETAILED SEQUENCE OF WORK PROPOSED B

THE DETAILED SEQUENCE OF WORK SHALL BE SUB CALENDAR DAYS OF THE CONTRACT AWARD (NOTI ??). NO WORK ON THE PROJECT SITES SHALL CO SEQUENCE OF WORK IS ACCEPTED BY THE CITY. SEQUENCE OF WORK SHALL DESCRIBE EACH SPECH ACTIVITY AND ANY ACTIONS REQUIRED BY CITY F THE INITIATION OF AN ACTIVITY, AND SHALL INCLU SHOWING START DATES, END DATES, AND REQUIRE TASKS FOR EACH ACTIVITY. THE SEQUENCE SHALL DESCRIPTION OF ACTIVITIES WHICH MUST USE ENC ACCESS AND THE QUANTITY AND TYPES OF EQUIR BE NECESSARY FOR THOSE ACTIVITIES. EXCEPT W DESCRIBED BELOW APPLY, WORK ACTIVITY IN MULT OCCUR SIMULTANEOUSLY. CONTRACTOR SHALL PRE TO THE CITY AN UPDATED SCHEDULE EVERY TWO

DETAILED SEQUENCE OF WORK CRITERIA:

- I. PRIOR TO THE CONTRACTOR BEGINNING WORK SHALL TAKE OUT OF SERVICE THE EXISTING PLACE RESERVOIR (LJEPR), THE EXISTING LA PUMP STATION, THE EXISTING LA JOLLA VIEW THE EXISTING I6-INCH LJVR INLET/OUTLET PI MUIRLANDS PS CONNECTION (APPROXIMATE ST PROPOSED 30-INCH PIPELINE) TO THE EXISTING
- 2. THE EXISTING 16-INCH WATERLINE TO BE REPACLUB DRIVE FROM STATION 1+00 TO STATION SERVICE DURING HIGH DEMAND PERIODS. THE WATERLINE OUT OF SERVICE BETWEEN THE DATES AND MARCH 3IST. ONCE THE 16-INCH WATERLINE OUT OF SERVICE, THE 30-INCH REPLACEMENT COMPLETED, ACCEPTED BY THE CITY AND IN NO CHANGES IN CONTRACT PRICE OR DURATION DUE TO THIS RESTRICTION.
- 3. NO MAJOR CONSTRUCTION TRAFFIC TO AND F IN THE LA JOLLA NATURAL PARK SHALL OCC CONSTRUCTION OF 8-INCH OR THE 30-INCH P CLUB DRIVE TO AVOID EXCESSIVE CONSTRUCT ALONG COUNTRY CLUB DRIVE.

THE SEQUENCE OF WORK SHALL PRIORITIZE CONS TEMPORARY ACCESS ROAD (SEE TEMPORARY CON DESCRIPTION BELOW) AND UTILIZE IT TO THE GRE POSSIBLE UNTIL FINAL GRADING IS BEING PERFOR JOLLA NATURAL PARK. CONSTRUCTION ACTIVITIES REQUIRING LARGE VEHICLES AND EQUIPMENT, EAR MATERIAL DELIVERIES, AND/OR MULTIPLE TRIPS S SUCH THAT THE TEMPORARY ACCESS ROAD CAN ACTIVITIES.

	GENERAL CONSTRUCTION SEQUENCE:	TEI
FOR ACCEPTANCE IN A DETAILED E GENERAL E PRIMARY INTENT OW IS TO HICH MAINTAINS IN	I. STAKE AND INSTALL CONSTRUCTION FENCING ALONG THE LIMIT OF WORK BOUNDARY WITHIN THE LA JOLLA NATURAL PARK. THE CONTRACTOR SHALL NOT PERFORM ANY CONSTRUCTION RELATED ACTIVITIES NOR DISTURB THE AREA OUTSIDE THE LIMIT OF WORK FOR ANY REASON WITHOUT SPECIFIC, PRE-APPROVED, WRITTEN AUTHORIZATION FROM THE CITY.	THE PLA PRO PRI ONS GRA
ATIONS (WHEN PROPERTY OWNERS SITES.NOT ALL VEMENTS DESCRIBED	2. MOVE ANTENNA MAST TO THE TEMPORARY LOCATION AT LJVR AND RE-ESTABLISH THE COMMUNICATION LINKAGES. THE MAXIMUM DURATION OF SECURITY SYSTEM OUTAGE SHALL BE IN ACCORDANCE WITH THE PLANS.	MIN SIT GRA FOF PLA
ALL MAJOR N THE CONTRACTOR'S MAY PROPOSE SEQUENCE IF IT	 PERFORM DEMOLITION OF THE LOVE AND LOEPE AND POMP STATION. CONSTRUCT 30-INCH WATERLINE FROM STATION 17+67 TO APPROXIMATELY STATION 2I+50, OR TO THE EASTERLY LIMIT OF WHERE THE CONTRACTOR'S PROPOSED TEMPORARY STOCKPILE WILL COVER THE PIPE ALIGNMENT. TEST WATERLINE. 	
JBMITTED WITHIN 30 FICE TO PROCEED OMMENCE UNTIL THE THE DETAILED	INCLUDING EXCAVATION FOR NEW RESERVOIR. TEMPORARY ACCESS	THE SUE GRA
CIFIC CONSTRUCTION FORCES PRIOR TO	6. PERFORM FINAL GRADING AT THE LJEPR AND PUMP STATION USING FILL MATERIAL FROM ROUGH GRADING OPERATIONS.	GR A Al L
UDE A SCHEDULE ED PREDECESSOR ALL ALSO INCLUDE A CELIA DRIVE FOR IPMENT WHICH WILL WHERE RESTRICTIONS TIPLE AREAS MAY REPARE AND SUBMIT O WEEKS.	7. CONSTRUCT 30-INCH WATERLINE FROM STATION I6+94 TO STATION I7+67, INCLUDING ALTITUDE VALVE VAULT AND APPURTENANCES. CONSTRUCT 30-INCH WATERLINE FROM APPROXIMATELY STATION 2I+50 (OR EASTERLY END POINT) TO RESERVOIR. TEST AND DISINFECT WATERLINE FROM STATION I6+94 TO RESERVOIR. COORDINATE WITH CITY FORCES TO MAKE TEMPORARY CONNECTION TO EXISTING I6-INCH WATERLINE AT STATION I6+94 TO PROVIDE WATER TO RESERVOIR SITE.	OFF TEN EAF HAN
	8. CONSTRUCT RESERVOIR DRAIN AND OVERFLOW PIPING AND DISCHARGE STRUCTURES.	
	9. CONSTRUCT NEW LJVR. FILL, TEST, AND DISINFECT NEW LJVR. Connect new ljvr to 30-inch inlet/outlet pipe.	TE
AT THE SITE, THE CITY LA JOLLA EXCHANGE JOLLA EXCHANGE PLACE V RESERVOIR (LJVR), AND PIPE FROM THE TATION 16+94 ALONG THE IG RESERVOIR.	IO. AFTER CITY ACCEPTANCE OF SUCCESSFUL RESERVOIR TESTING AND DISINFECTION, BEGIN BACKFILL OF RESERVOIR USING STOCKPILED	THE SIMI REL HOV THE OPE
PLACED IN COUNTRY N 16+94 MUST REMAIN IN WATERLINE CAN ONLY BE S OF NOVEMBER IST	II. CONSTRUCT 8-INCH WATERLINE AND ELECTRICAL EQUIPMENT IN ENCELIA DRIVE.TEST AND DISINFECT PIPELINE AND MAKE CONNECTION TO RESERVOIR WASH DOWN SYSTEM AND TO EXISTING WATERLINE IN BRODIAEA WAY.	١.
NE HAS BEEN TAKEN WATERLINE MUST BE SERVICE BY APRIL IST. ION SHALL BE PROVIDED	12. PERFORM FINAL GRADING WITHIN LA JOLLA NATURAL PARK. CONSTRUCT RESERVOIR SITE IMPROVEMENTS INCLUDING ENCELIA DRIVE ACCESS ROAD PAVING AND DRAIN VAULT ACCESS PATH.	2.
FROM THE WORK AREAS CUR DURING PIPELINE ALONG COUNTRY TION TRAFFIC IMPACTS	I3. CONSTRUCT AND TEST ELECTRICAL, SCADA (INCLUDING FIBER OPTIC SYSTEM AND PANELS AT MUIRLANDS PUMP STATION), AND SECURITY EQUIPMENT. RELOCATE THE ANTENNA MAST TO THE PERMANENT LOCATION. COMMISSION NEW SYSTEMS AND COMMUNICATION LINKAGES. THE MAXIMUM DURATION OF THE SECURITY SYSTEM OUTAGE SHALL BE IN ACCORDANCE WITH THE PLANS.	3.
STRUCTION OF THE	14. CONSTRUCT TEMPORARY IRRIGATION AND INSTALL RE-VEGETATION PLANT MATERIAL WITHIN LA JOLLA NATURAL PARK.	
NSTRUCTION GRADING EATEST EXTENT RMED WITHIN THE LA S WITHIN THE PARK THWORK HAULAGE, SHALL BE SCHEDULED BE UTILIZED FOR THOSE	15. CONSTRUCT 8-INCH WATERLINE IN COUNTRY CLUB DRIVE INCLUDING THE NEW TEE AND CONNECTION TO THE EXISTING 30-INCH PIPE AT STATION 60+00. TEST, DISINFECT AND PLACE THE 8-INCH WATERLINE INTO SERVICE. MOVE EXISTING WATER SERVICES AND LATERALS FROM EXISTING 16-INCH WATERLINE TO NEW 8-INCH WATERLINE. THE MAXIMUM DURATION OF WATER SERVICE OUTAGES SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.	4.
	16. AFTER THE EXISTING WATER SERVICES AND LATERALS ARE TRANSFERRED TO THE NEW 8-INCH WATERLINE, REMOVE THE EXISTING 16-INCH WATERLINE FROM SERVICE AND CONSTRUCT THE NEW 30-INCH WATERLINE IN COUNTRY CLUB DRIVE FROM STATION I+00 TO 16+94 (SEE ABOVE FOR RESTRICTIONS ON DURATION OF 16-INCH/30-INCH WATERLINE SHUTDOWN). TEST, DISINFECT AND PLACE THE 30-INCH WATERLINE INTO SERVICE.	
	17. CONSTRUCT CURB RAMP IMPROVEMENTS ALONG COUNTRY CLUB DRIVE.	
	18. PERFORM FINAL PAVING, CONSTRUCT TEMPORARY IRRIGATION, AND INSTALL RE-VEGETATION LANDSCAPING AT THE LJEPR AND PUMP STATION.	
	19. CONDUCT LANDSCAPE MAINTENANCE AND MONITORING	ISULTANT
	Pow T 858.413.2	271 Danielson Street ay, California 92064 400 F 858.413.2440 ww.iecorporation.com

MPORARY CONSTRUCTION GRADING AND STOCKPILE:

CONTRACTOR SHALL PREPARE AND SUBMIT FOR ACCEPTANCE A AN FOR TEMPORARY CONSTRUCTION GRADING IN ACCORDANCE WITH THE OJECT SPECIFICATIONS AND THE CRITERIA DESCRIBED BELOW. THE IMARY INTENT OF THE TEMPORARY GRADING PLAN IS TO MAINTAIN SITE THE QUANTITY OF BACKFILL REQUIRED TO PERFORM THE FINAL ADING AFTER THE NEW LJVR CONSTRUCTION IS COMPLETED THEREBY NIMIZING THE IMPACT TO RESIDENTS THAT SURROUND THE PROJECT E AND THE LARGER COMMUNITY. THE TEMPORARY CONSTRUCTION ADING AND STOCKPILE LAYOUT SHOWN ON THE PLANS IS PROVIDED R THE CONTRACTOR'S INFORMATION AND REPRESENTS A CONCEPTUAL AN ONLY. NOT ALL ASPECTS OF A COMPLETE TEMPORARY GRADING SIGN ARE SHOWN ON THE CONCEPT PLAN, HOWEVER, THIS SHALL NOT IT THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL TIVITIES REQUIRED BY THE CONTRACT DOCUMENTS AND FOR MPLIANCE WITH REGULATORY REQUIREMENTS. THE CONTRACTOR SHALL VELOP A DETAILED PLAN THAT DESCRIBES THE SPECIFIC APPROACH OPOSED FOR THE EARTHWORK. THE CITY SHALL HAVE FINAL AUTHORITY ACCEPT, MODIFY, OR REJECT THE DETAILED PLAN PROPOSED BY THE NTRACTOR.

DETAILED TEMPORARY CONSTRUCTION GRADING PLAN SHALL BE BMITTED WITHIN 60 CALENDAR DAYS OF THE NOTICE TO PROCEED.NO ADING IN THE LJVR PROJECT AREA SHALL COMMENCE UNTIL THE MPORARY GRADING PLAN IS ACCEPTED BY THE CITY.THE PLAN SHALL LUDE DRAWINGS (NO SMALLER THAN LINCH=30 FT SCALE ON D-SIZE EETS) SHOWING THE LIMITS AND CONTOURING OF THE TEMPORARY ADING, STOCKPILE AND ACCESS ROAD, DETAILS AND DESCRIPTIONS OF EROSION CONTROL MEASURES AND STORMWATER/DRAINAGE ATURES (SUCH AS TEMPORARY CULVERTS). EARTHWORK VOLUME TIMATES, ESTIMATED VOLUMES OF MATERIAL TO BE TRANSPORTED FSITE FOR DISPOSAL, DESCRIPTION OF AND CALCULATIONS FOR MPORARY SHORING SYSTEMS (SUCH AS SOIL NAILING), SEQUENCE OF RTHWORK CONSTRUCTION, AND DESCRIPTIONS OF THE EARTHWORK NDLING METHODS (SUCH AS THE ESTIMATED NUMBER AND TYPES OF RTHWORK EQUIPMENT TO BE USED). THE PLANS AND CALCULATIONS ALL BE PREPARED UNDER THE DIRECTION OF, AND SIGNED BY, A LIFORNIA REGISTERED CIVIL ENGINEER.

MPORARY CONSTRUCTION GRADING CRITERIA:

E CONTRACTOR MUST CONSTRUCT A TEMPORARY ACCESS ROAD MILAR TO THE ROAD CONCEPT SHOWN ON THE PLANS AS ITS LOCATION LATES TO THE POSITION OF THE RESERVOIR INLET/OUTLET PIPELINE. WEVER, THE CONTRACTOR MAY MODIFY THE LOCATION AND SIZE OF E TEMPORARY STOCKPILE(S) AND ACCESS ROAD AS REQUIRED FOR ITS ERATIONS IF THE FOLLOWING REQUIREMENTS ARE MET:

THE EXTENTS OF THE TEMPORARY STOCKPILE(S), AND THE WORKING SPACE TO CONSTRUCT IT, MUST BE WITHIN THE WORK AREA LIMIT SHOWN ON THE PLANS. DISTURBANCE OUTSIDE THE LIMIT OF WORK IS NOT PERMITTED.

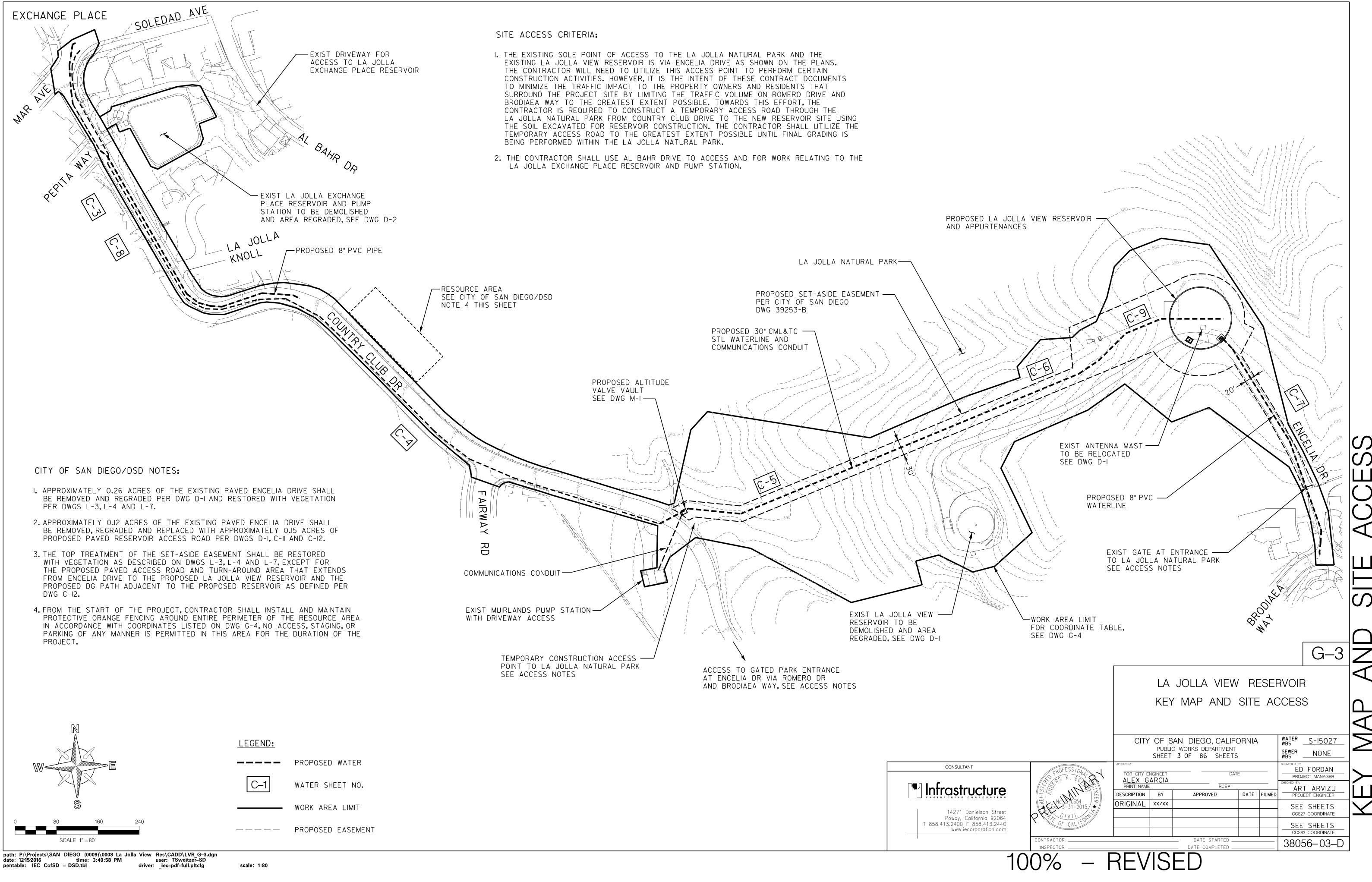
WHERE THE STOCKPILE(S) IS CONSTRUCTED ABOVE THE NEW 30-INCH WATERLINE WITHIN THE PARK, THE TOTAL HEIGHT OF FILL ABOVE THE PIPELINE MUST NOT EXCEED 80 FEET.IF THE CONTRACTOR'S PROPOSED TEMPORARY STOCKPILE DOES EXCEED 80 FEET OF FILL OVER THE NEW 30-INCH WATERLINE, THE CONTRACTOR SHALL PROVIDE CALCULATIONS SHOWING THE MATERIAL THICKNESS OF THE 30-INCH STEEL PIPE IS ADEQUATE FOR THE PROPOSED FILL HEIGHT.

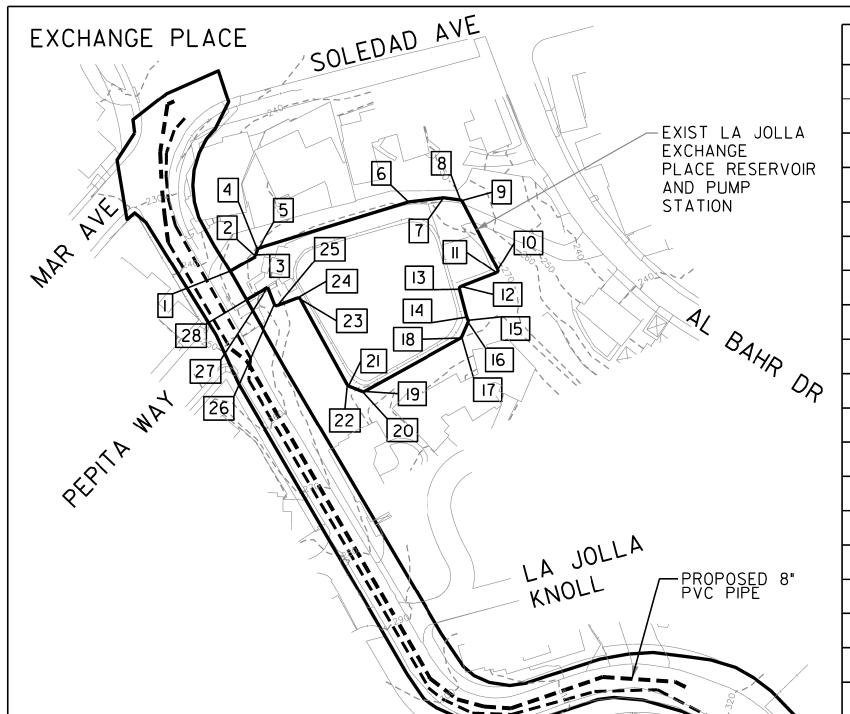
THE CONTRACTOR MAY USE THE AREA AT THE EXISTING LA JOLLA VIEW RESERVOIR TO STOCKPILE MATERIAL, BUT THE TOTAL HEIGHT OF THE STOCKPILED MATERIAL IN THIS AREA MUST NOT EXCEED THE FINAL GRADES AS SHOWN ON THE PLANS.

THE CONTRACTOR SHALL ESTIMATE THE ACTUAL QUANTITY OF BACKFILL REQUIRED TO PERFORM THE FINAL GRADING WITHIN THE PARK AND MAINTAIN ONSITE THAT QUANTITY OF MATERIAL, INCLUDING THE TEMPORARY STOCKPILE(S) AND THE TEMPORARY ACCESS ROAD. THE CONTRACTOR SHALL ENSURE THAT NO IMPORTED SOIL IS REQUIRED TO COMPLETE THE FINAL GRADING WITHIN THE PARK. THE CONTRACTOR SHALL ALSO CONSTRUCT THE TEMPORARY STOCKPILE(S) SO AS TO MINIMIZE THE TOTAL VOLUME OF EXPORTED SOIL AFTER COMPLETION OF THE FINAL GRADING.

	ENV	IRON	JOLLA VIE MENTAL PE D SEQUEN	ERMIT	S A	ND NOTES
	CITY	PUBLIC	AN DIEGO, CAL C WORKS DEPARTMEI 2 OF 86 SHEE	ΝT	N	WATER WBS B-11070 SEWER WBS NONE
PROFESS/04 PROFE	FOR CITY ENGINEER ALEX GARCIA PRINT NAME			DATE 		
	DESCRIPTION	BY	APPROVED	DATE	FILMED	PROJECT ENGINEER
	ORIGINAL	XX/XX				246-1692 CCS27 COORDINATE
						CCS83 COORDINATE
CONTRACTOR			DATE STARTED DATE COMPLETED			38056– 2 <i>–</i> E

G-2



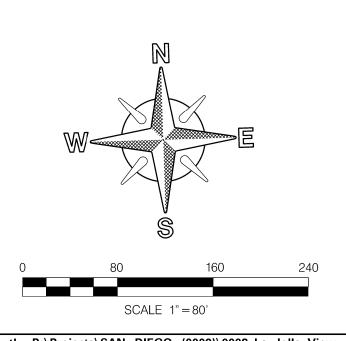


	C00	RDINATE TABL	E
NO	ELEV.	NORTHING	
Ι	254.26	1888483 . 17	62
2	262.50	1888495.74	62
3	262 . I3	I888497 . 09	6
4	261.33	1888501 . 47	6
5	261.64	1888502.76	62
6	269.80	1888541.40	6
7	268.57	1888544.89	62
8	267.74	1888542.99	62
9	267.71	1888542.50	6
10	271.38	1888484.58	62
=	272.14	I88848I . 97	6
12	273.32	1888470.36	62
13	273.27	1888467.99	6
14	274.72	1888444.70	6
15	275.06	1888442.02	62
16	275.13	1888440.42	6
17	277.76	1888428.16	62
18	278.74	1888427.22	62

	COORDINATE TABLE				
NO	ELEV.	NORTHING	EASTING		
76	641.40	1887762.52	6251682.37		
77	634.59	1887806.59	6251659.86		
78	638.88	I88792I . 50	6251505.15		
79	635.82	1887893 . 77	6251433.19		
80	586.44	1887967.08	6251342.41		
81	575.32	1887916 . 55	625I270 . 90		
82	549.49	1887855 . 64	6251129 . 40		
83	546.48	1887804.33	6251103.33		
84	547.16	1887679.88	6251163.40		
85	504.20	1887614.85	6251091 . 16		
86	484.17	1887603.79	6251049.18		
87	487.88	1887636.68	6250983.08		
88	462.24	1887624.97	6250938.82		
89	450.41	1887579 . 13	6250950.95		
90	431.57	1887544.98	6250814.26		
91	414.53	I887649 . 55	6250620 . I6		
92	389.43	1887670.46	62505I3 . 62		
93	399.64	I887632 . 69	6250463.93		

FAIRWAY R
RD

	C00	RDINATE TA
NO	ELEV.	NORTHING
94	394.90	1887608.5
95	396.49	1887584.10
96	393.73	1887575.3
97	395.68	1887606 . 2
98	394.48	1887612.12
99	391.05	1887693.3



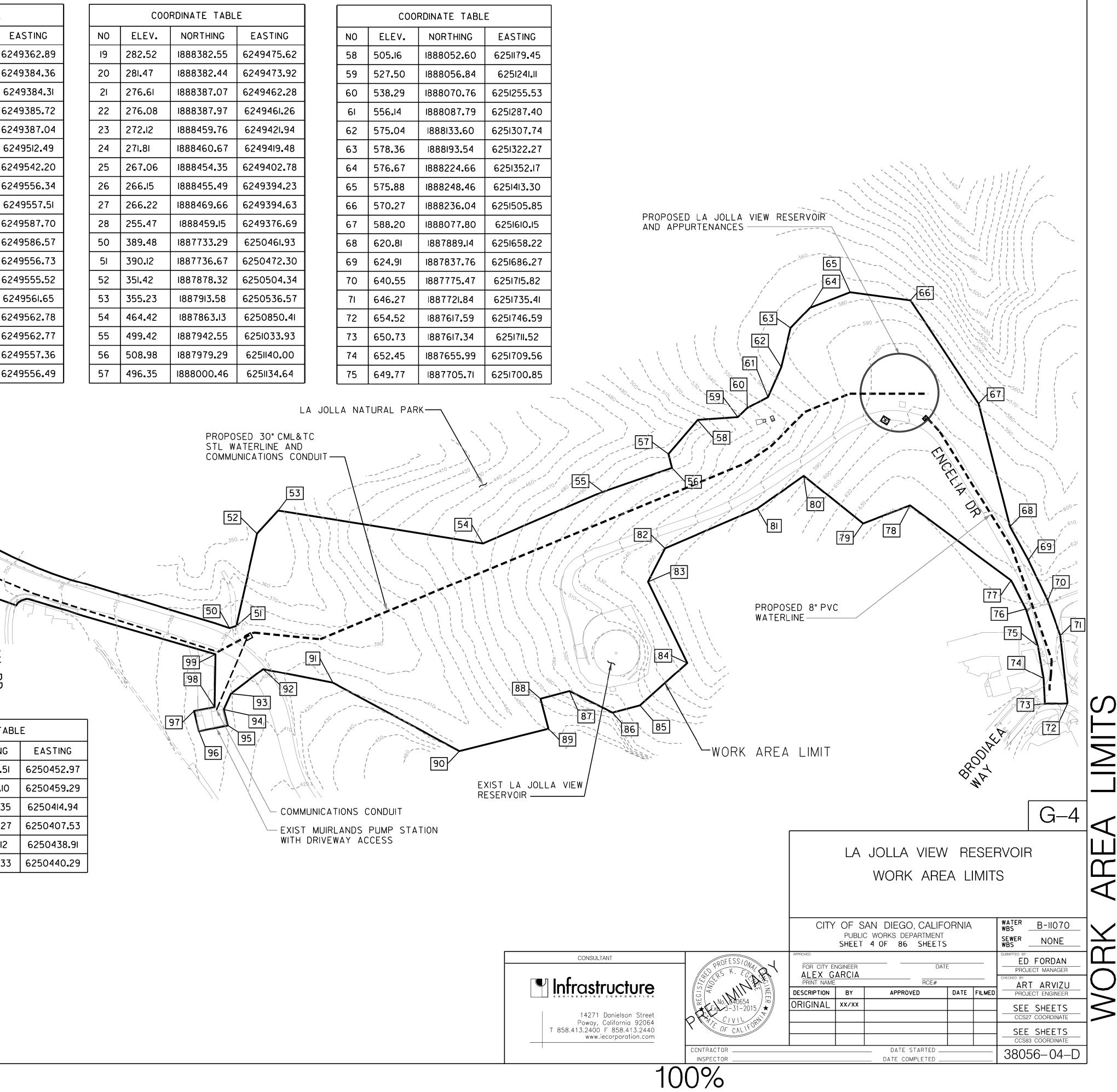
LEGEND:

---- PROPOSED WATER

- WORK AREA LIMIT

	COORDINATE TABLE					
ING	NO	ELEV.	NORTHING	EASTING		
62.89	19	282.52	1888382.55	6249475 . 62		
84.36	20	281.47	1888382.44	6249473.92		
84.31	21	276.61	1888387.07	6249462.28		
85.72	22	276.08	1888387.97	6249461.26		
87.04	23	272.12	1888459.76	6249421.94		
12.49	24	271.81	1888460.67	6249419.48		
42.20	25	267.06	1888454.35	6249402.78		
56.34	26	266.15	1888455.49	6249394.23		
57 . 5I	27	266.22	1888469.66	6249394.63		
87.70	28	255.47	1888459 . 15	6249376 . 69		
86 . 57	50	389.48	I887733 . 29	6250461.93		
56.73	51	390 . I2	1887736 . 67	6250472.30		
55 . 52	52	351.42	1887878.32	6250504.34		
61.65	53	355.23	1887913 . 58	6250536 . 57		
62.78	54	464.42	1887863 . 13	6250850.41		
62 . 77	55	499.42	1887942.55	6251033.93		
57.36	56	508.98	1887979.29	625II40 . 00		
56.49	57	496.35	1888000.46	625 34.64		

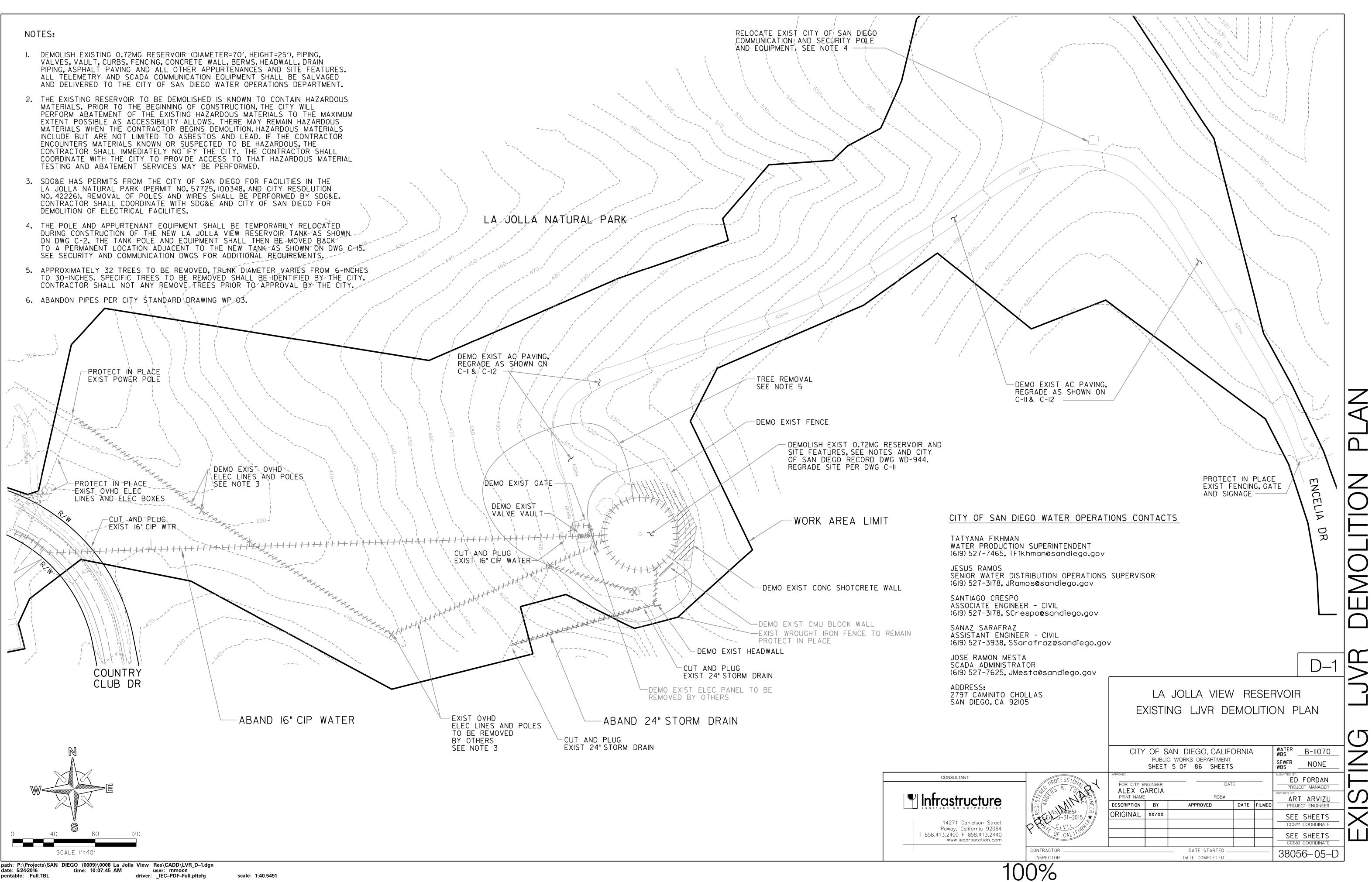
COORDINATE TABLE					
NO	ELEV.	NORTHING	EASTING		
58	505.16	1888052.60	6251179.45		
59	527 . 50	1888056.84	6251241.11		
60	538 . 29	1888070.76	625I255 . 53		
61	556 . I4	1888087.79	6251287.40		
62	575 . 04	1888133.60	6251307.74		
63	578.36	1888193.54	6251322.27		
64	576.67	1888224.66	625I352 . I7		
65	575 . 88	1888248.46	6251413.30		
66	570 . 27	1888236.04	6251505.85		
67	588.20	1888077.80	6251610.15		
68	620.81	1887889.14	6251658.22		
69	624.91	1887837.76	6251686.27		
70	640.55	1887775.47	6251715.82		
71	646.27	1887721 . 84	625I735 . 4I		
72	654.52	1887617 . 59	6251746.59		
73	650.73	887617.34	625I7II . 52		
74	652.45	1887655.99	625I709 . 56		
75	649.77	1887705.71	6251700.85		



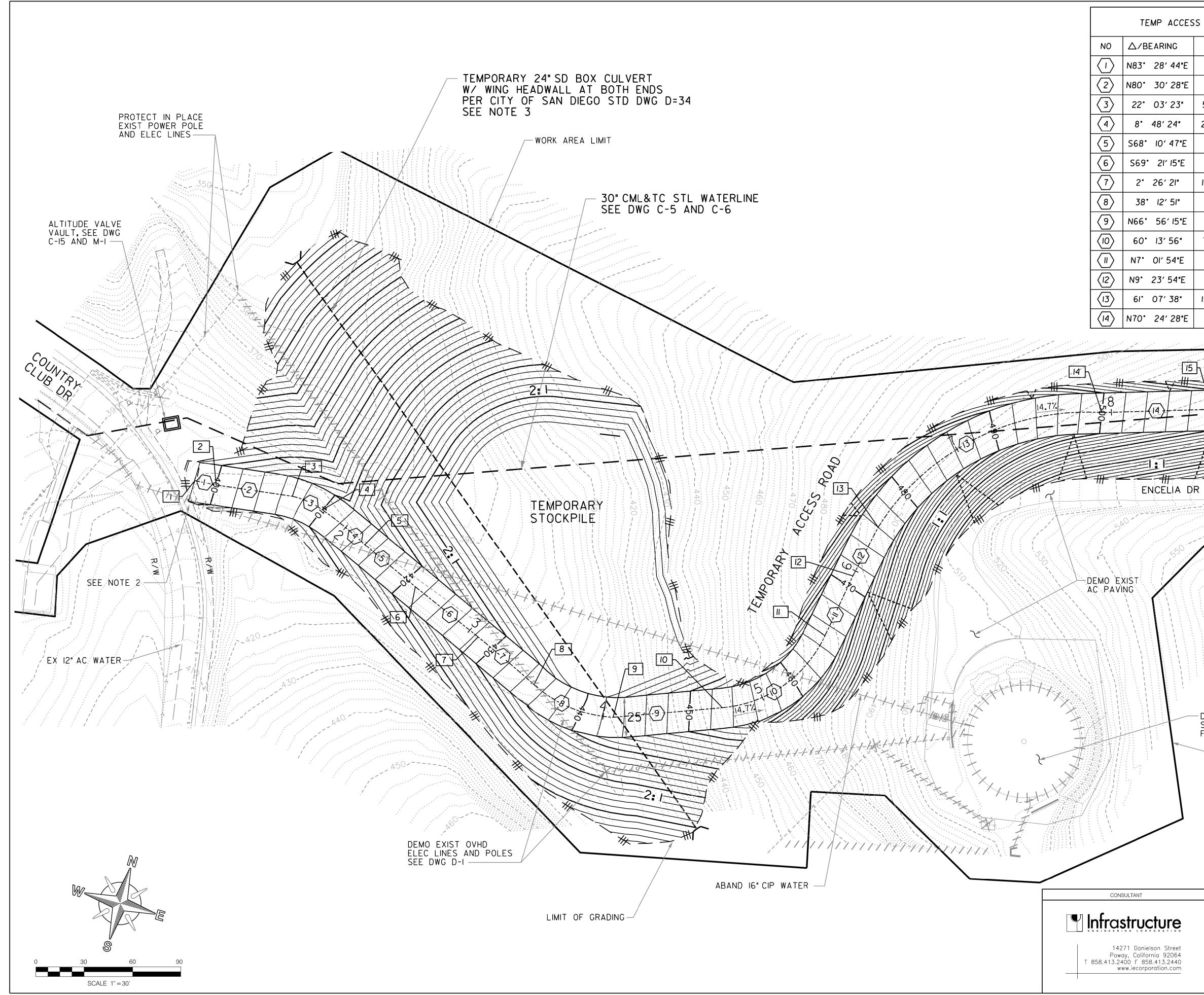
VALVES, VAULT, CURBS, FENCING, CONCRETE WALL, BERMS, HEADWALL, DRAIN PIPING, ASPHALT PAVING AND ALL OTHER APPURTENANCES AND SITE FEATURES. ALL TELEMETRY AND SCADA COMMUNICATION EQUIPMENT SHALL BE SALVAGED AND DELIVERED TO THE CITY OF SAN DIEGO WATER OPERATIONS DEPARTMENT.

MATERIALS. PRIOR TO THE BEGINNING OF CONSTRUCTION, THE CITY WILL PERFORM ABATEMENT OF THE EXISTING HAZARDOUS MATERIALS TO THE MAXIMUM EXTENT POSSIBLE AS ACCESSIBILITY ALLOWS. THERE MAY REMAIN HAZARDOUS MATERIALS WHEN THE CONTRACTOR BEGINS DEMOLITION. HAZARDOUS MATERIALS INCLUDE BUT ARE NOT LIMITED TO ASBESTOS AND LEAD. IF THE CONTRACTOR ENCOUNTERS MATERIALS KNOWN OR SUSPECTED TO BE HAZARDOUS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CITY. THE CONTRACTOR SHALL COORDINATE WITH THE CITY TO PROVIDE ACCESS TO THAT HAZARDOUS MATERIAL TESTING AND ABATEMENT SERVICES MAY BE PERFORMED.

- SDG&E HAS PERMITS FROM THE CITY OF SAN DIEGO FOR FACILITIES IN THE DEMOLITION OF ELECTRICAL FACILITIES.
- DURING CONSTRUCTION OF THE NEW LA JOLLA VIEW RESERVOIR TANK-'AS SHOWN -ON DWG C-2. THE TANK POLE AND EQUIPMENT SHALL THEN BE MOVED BACK TO A PERMANENT LOCATION ADJACENT TO THE NEW TANK AS SHOWN ON DWG C-15. SEE SECURITY AND COMMUNICATION DWGS FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR SHALL NOT ANY REMOVE TREES PRIOR TO APPROVAL BY THE CITY.



pentable: Full.TBL driver: _IEC-PDF-Full.pltcfg scale: 1:40.5451



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ES	S ROAD D	DATA TABL	E
	R	L	Т
-		13.53′	
-		47.79′	
	53.76′	20.70′	10.48′
	221.06′	33.98′	17.02′
•		40.82′	
		47.77′	
	III6 . 86′	47.55′	23.78′
	81.07′	54.07′	28 . 08′
		68.07′	
	77 . 36′	81.33′	44.88′
		40.91′	
		34.00′	
	153 . 32′	163.57′	90 . 54′
-		68.06′	

TEMP ACCESS ROAD COORDINATE TABLE					
NO	STATION	NORTHING	EASTING		
1	1+00.00	1887690.86	6250515.88		
2	I+I3 . 53	1887692 . 40	6250529 . 32		
3	1+61.32	1887700 . 28	6250576 . 46		
4	1+82.02	1887698.04	6250596.90		
5	2+16.00	1887685 . 50	6250628.45		
6	2+56.82	1887670.33	6250666.35		
7	3+04.59	1887653 . 49	6250711 . 05		
8	3+52.14	1887635.28	6250754 . 97		
9	4+06.21	1887631 . 00	6250807.87		
10	4+74.28	1887657.67	6250870 . 50		
	5+55 . 61	1887904.05	6251038.09		
12	5+96.51	1887719.55	6250917.38		
13	6+30 . 51	1887793.69	6250927.94		
14	7+94.08	1887926.87	6251102.22		
15	8+62.15	1887962.34	6251205.03		

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NOTES:

- LIMITS SHOWN FOR TEMPORARY GRADING ARE SUGGESTED LIMITS ONLY.CONTRACTOR MAY PROPOSE ALTERNATE TEMPORARY GRADING LIMITS WITHIN ALLOWABLE WORK AREA LIMIT, HOWEVER, COSTS FOR ANY ADDITIONAL GRADING, LANDSCAPE IRRIGATION, PLANTING AND MAINTENANCE BEYOND THAT SHOWN ON THE PLANS SHALL BE THE RESPONSIBILTY OF THE CONTRACTOR.
- CONTRACTOR SHALL TRENCH PLATE OVER EXISTING DRAINAGE CHANNEL OR PROVIDE TEMPORARY PIPING TO 2. PRESERVE EXISTING DRAINAGE FLOW AND DIRECTION.
- 3. CONTRACTOR SHALL PROVIDE TEMPORARY STORM DRAIN TO PRESERVE EXISTING DRAINAGE FLOW AND DIRECTION.
- 4. KEYS SHALL BE CONSTRUCTED FOR PROPOSED TEMPORARY STOCKPILE PER DETAIL I, DWG C-17. ADDITIONAL REQUIREMENTS FOR SLOPE STABILITY MAY BE REQUIRED AT THE DISCRETION OF THE ENGINEER.

— DEMOLISH EXIST RESERVOIR AND SITE FEATURES PER DWG D-I, FINAL GRADING PER DWG C-II

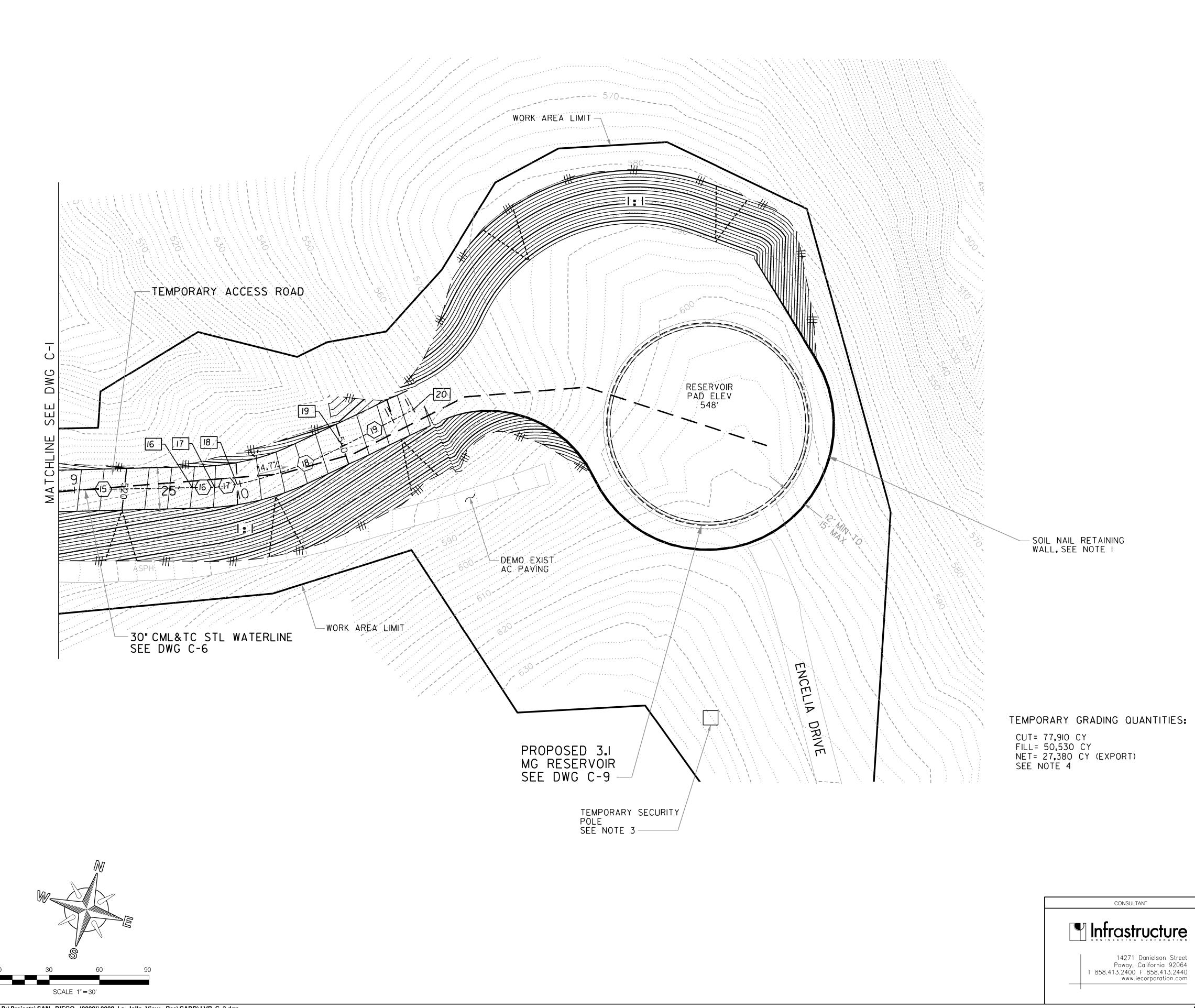
-WORK AREA LIMIT

		F		JOLLA VIEV GH GRADIN			
		CITY	PUBLIC	AN DIEGO, CALIF WORKS DEPARTMEN 6 OF 86 SHEET	Т		water <u>B-11070</u> wbs <u>Sewer</u> NONE
	PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL	APPROVED: FOR CITY E ALEX G PRINT NAME	ARCIA	D,	ATE		SUBMITTED BY: ED FORDAN PROJECT MANAGER CHECKED BY: ART ARVIZU
010		DESCRIPTION	BY	APPROVED	DATE	FILMED	PROJECT ENGINEER
	No. 640654 ₹ Exp 3-31-2015 ★	ORIGINAL	XX/XX				246-1692 CCS27 COORDINATE
	COF CALIFO						1886444, 6253407 CCS83 COORDINATE

4 UNG NG GR ROUGH

C–1

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	TEMP ACCES	S ROAD D	ATA TABL	E
NO	\triangle / BEARING	R	L	Т
(15)	N70° 58′00"E		108.76′	
(16)	N7I° 34′ II"E		13.57′	
(17)	N64° 16′ 11"E		13.65′	
(18)	15° 19′ 14"	254.36′	68 . 01′	34.21′
(19)	N44° 35′ 05"E		47.91′	

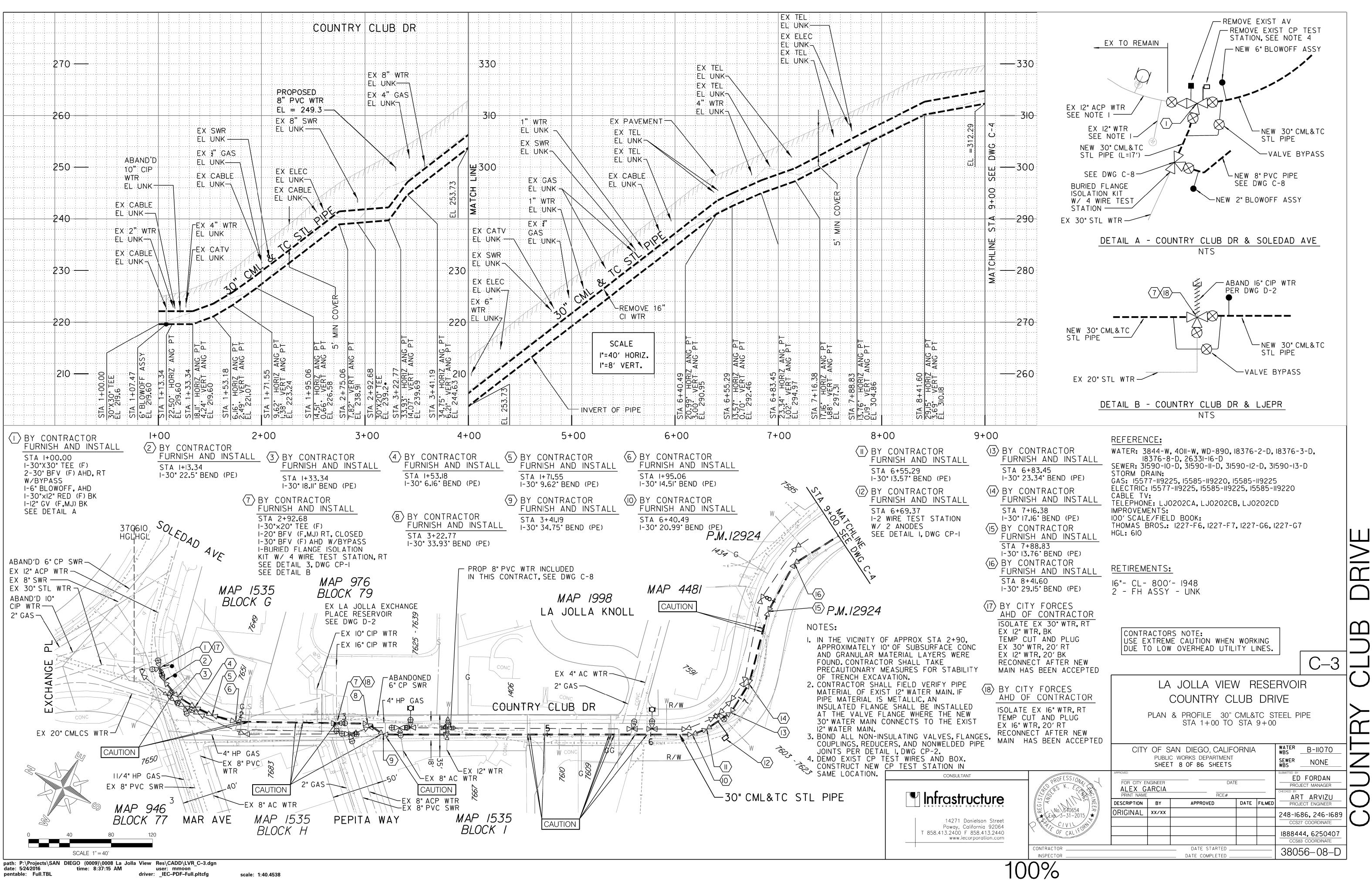
TEMP ACCESS ROAD COORDINATE TABLE						
NO	STATION	NORTHING	EASTING			
16	9+70.91	1887966.63	6251217.91			
17	9+84.48	1887972.56	6251230 . 21			
18	9+98.13	1887991.52	6251258 . 41			
19	10+66.15	1888014.08	6251283.82			
20	11+14.06	1888048.20	6251317.46			

NOTES:

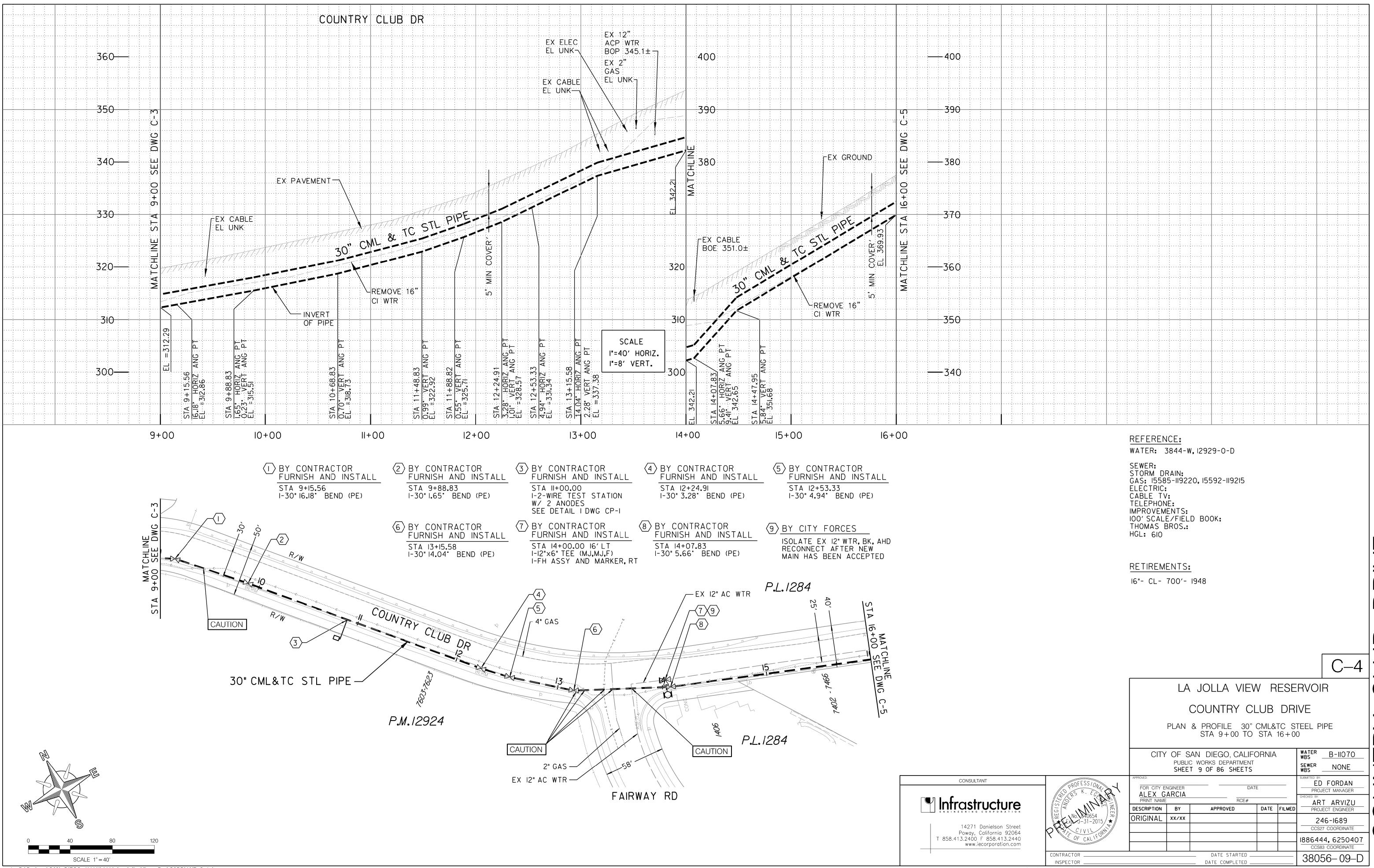
- I. CONSTRUCT PARTIAL/FULL HEIGHT VERTICAL SHORING TO CONSTRUCT ROUGH GRADE AND MAINTAIN SETBACKS FROM RESERVOIR. ALL SHORING DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR (SEE SPECIFICATIONS). CONTRACTOR SHALL PLACE SAFETY RAILING AT THE TOP OF SHORING, COORDINATE SAFETY RAIL PLACEMENT WITH TYPE OF SHORING SELECTED.
- 2. LIMITS SHOWN FOR TEMPORARY GRADING ARE SUGGESTED LIMITS ONLY. CONTRACTOR MAY PROPOSE ALTERNATE TEMPORARY GRADING LIMITS WITHIN ALLOWABLE WORK AREA LIMIT. HOWEVER, COSTS FOR ANY ADDITIONAL GRADING, LANDSCAPE IRRIGATION, PLANTING AND MAINTENANCE BEYOND THAT SHOWN ON THE PLANS SHALL BE THE RESPONSIBILTY OF THE CONTRACTOR.
- 3. THE SECURITY AND COMMUNCATION POLE AND APPURTENANT EQUIPMENT SHALL BE TEMPORARILY RELOCATED DURING CONSTRUCTION OF THE NEW LA JOLLA VIEW RESERVOIR AS SHOWN HEREIN. THE POLE AND EQUIPMENT SHALL THEN BE MOVED BACK TO A PERMANENT LOCATION ADJACENT TO THE TANK AS SHOWN ON DWG C-14. SEE SECURITY AND COMMUNICATION DWGS FOR ADDITIONAL REQUIREMENTS.
- 4. THE QUANTITIES ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL PERFORM QUANTITY TAKE-OFFS FOR BIDDING PURPOSES. NO ADDITIONAL COMPENSATION WILL BE MADE SHOULD ACTUAL QUANTITIES DIFFER FROM QUANTITIES SHOWN HEREON.

 $C-2|\Box$

	F		JOLLA VIE\ GH GRADIN			
	CITY	PUBLI	AN DIEGO, CALI C WORKS DEPARTMEN 7 OF 86 SHEET	Т	L.	WATER WBS B-11070 SEWER WBS NONE
PROFESSIONAL RESERVENT	FOR CITY E ALEX C PRINT NAME	ARCIA	D	ATE		SUBMITTED BY: ED FORDAN PROJECT MANAGER CHECKED BY: ART ARVIZU
ANNA MILLER	DESCRIPTION	BY	APPROVED	DATE	FILMED	PROJECT ENGINEER
\mathbb{H} No. 040654 \mathbb{H}	ORIGINAL	XX/XX				246-1692
						CCS27 COORDINATE
Y OF CALIFOR						1886444, 625340 CCS83 COORDINATE
CONTRACTOR	-		DATE STARTED .			38056-07-0
INSPECTOR			DATE COMPLETED .			00000-07-L



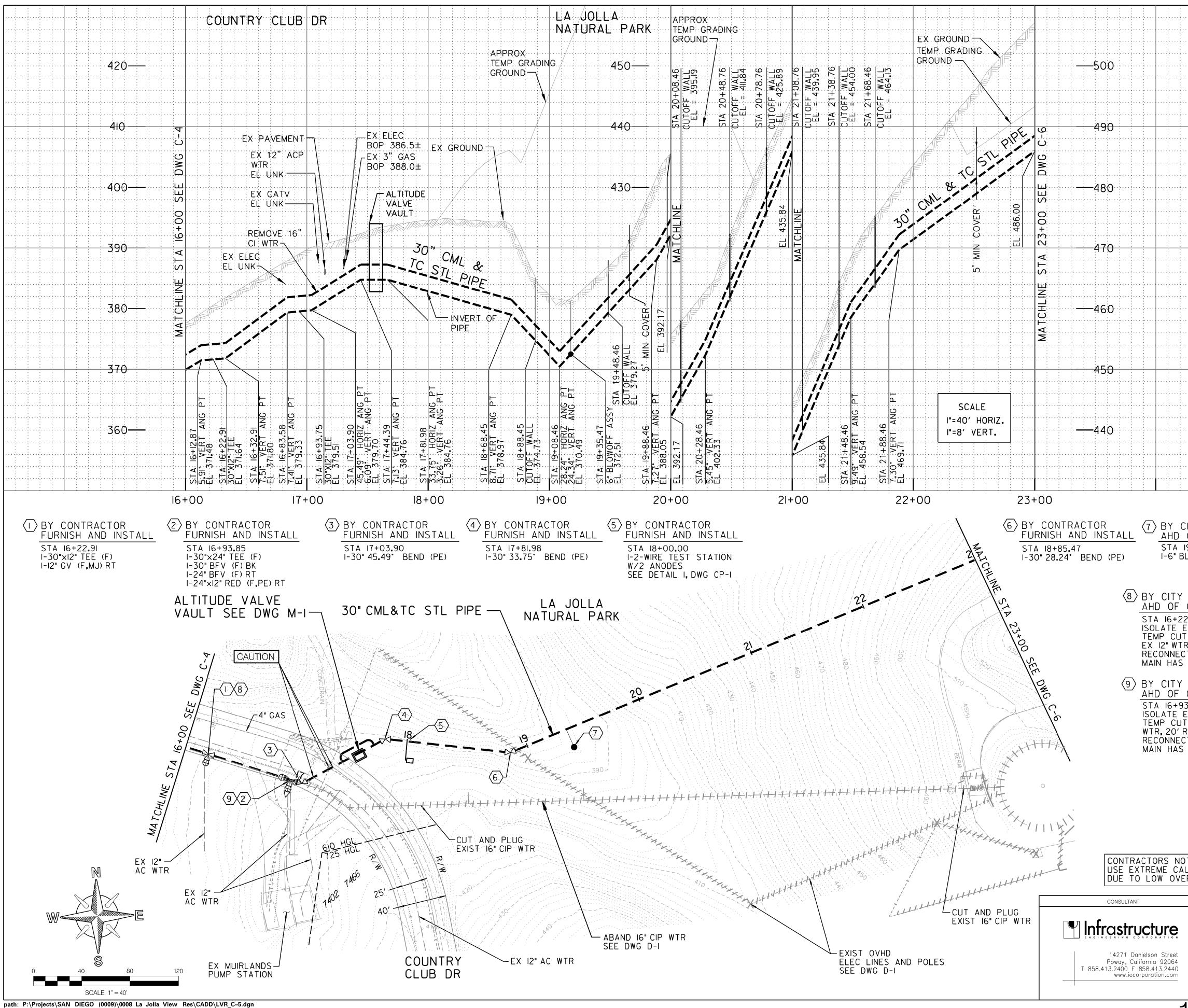
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						C-4	
		LA	JOLLA VIE	N F	RESE	RVOIR	
			COUNTRY C	LUB	DR	IVE	
		PLAN	& PROFILE 30" STA 9+00 TO				ĺ
	CITY	PUBLI	AN DIEGO, CALIF C WORKS DEPARTMENT T 9 OF 86 SHEETS		A	water <u>B-11070</u> wbs <u>NONE</u>	
PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL	FOR CITY EI ALEX C PRINT NAME	ARCIA	DA	TE		CHECKED BY: PROJECT MANAGER CHECKED BY: ART ARVIZU	
CULL RADIES	DESCRIPTION	BY	APPROVED	DATE	FILMED	PROJECT ENGINEER](
No. 040654	ORIGINAL	XX/XX				246-1689 CCS27 COORDINATE	
C OF CAL IFOR						1886444, 6250407 CCS83 COORDINATE	
CONTRACTOR			DATE STARTED DATE COMPLETED			38056-09-D	

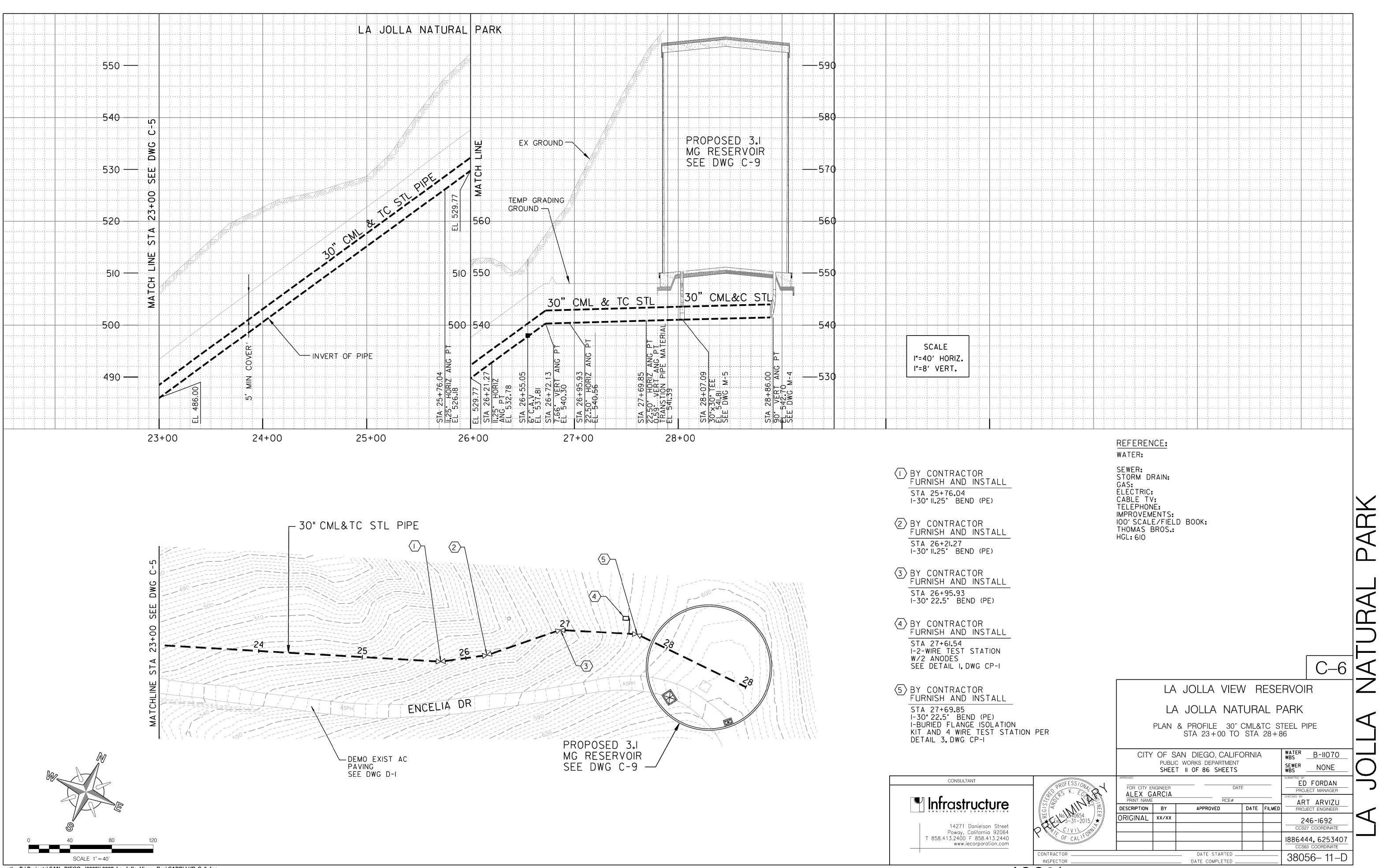
DRIVE \square



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scale: 1:41.0301

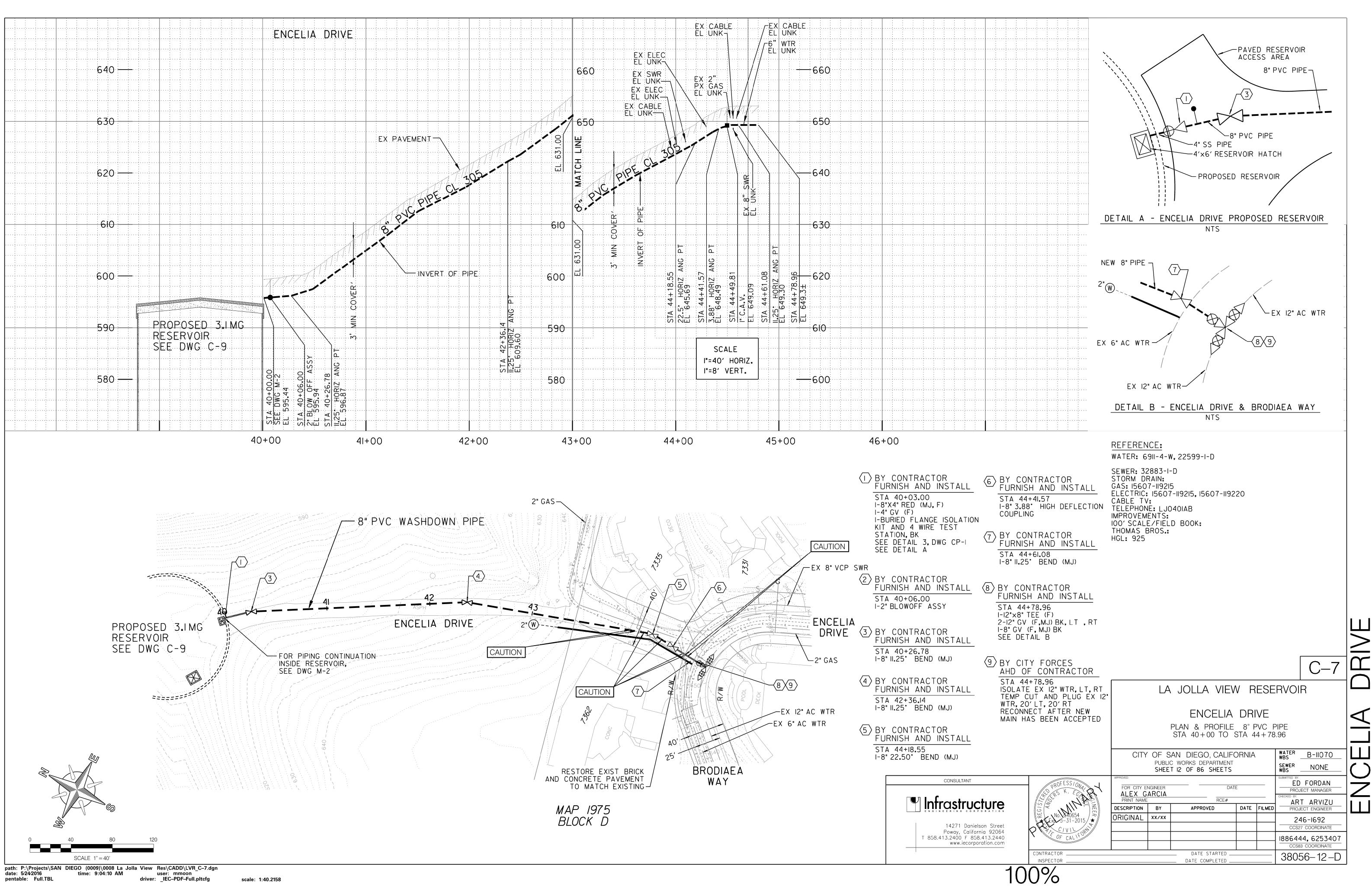
			レイレ
		2 2 0	
		F Z	D I Z Z I
		<	
CITY FORCES OF CONTRACTOR 19+35.47 BLOWOFF Y FORCES CONTRACTOR 22.91 EX 12" WTR, RT JT AND PLUG TR, 20' RT ECT AFTER NEW S BEEN ACCEPTED Y FORCES	<u>REFERENCE:</u> WATER: 3844-W, I2929-O-D, I3364-O-D,I8399 SEWER: STORM DRAIN: GAS: I5592-II9215 ELECTRIC: I5592-II9215, I5600-II9215, I5592-II9 CABLE TV: TELEPHONE: IMPROVEMENTS: IOO' SCALE/FIELD BOOK: THOMAS BROS.: HGL: 6IO <u>RETIREMENTS:</u> I6"- CI- 690'- I948	<	
<u>CONTRACTOR</u> 93.85 EX 12" WTR, RT UT AND PLUG EX 12" 'RT ECT AFTER NEW S BEEN ACCEPTED		C-5 C	
10.7.5	LA JOLLA VIEW RESE COUNTRY CLUB DRIVI LA JOLLA NATURAL F PLAN & PROFILE 30" CML&TC S STA 16+00 TO STA 23+0	E TO PARK TEEL PIPE	
NOTE: AUTION WHEN WORKING VERHEAD UTILITY LINES.	CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 10 OF 86 SHEETS APPROVED: FOR CITY ENGINEER ALEX GARCIA PRINT NAME DESCRIPTION BY APPROVED DATE FILMED ORIGINAL XX/XX	246-1692 CCS27 COORDINATE	こうつう
CONTRACTOR	DATE STARTED DATE COMPLETED	1886444, 6253407 CCS83 COORDINATE 38056-10-D	

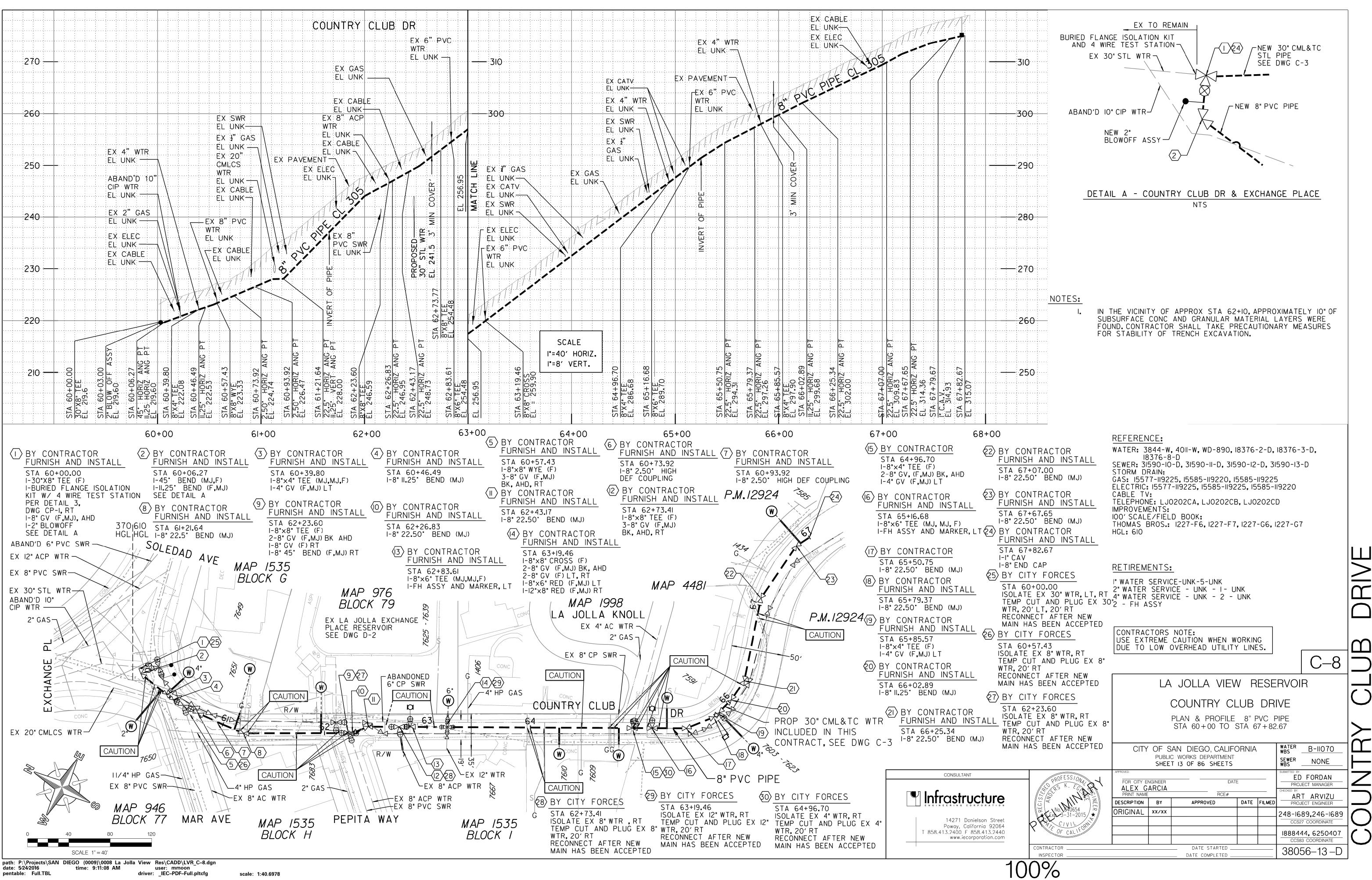


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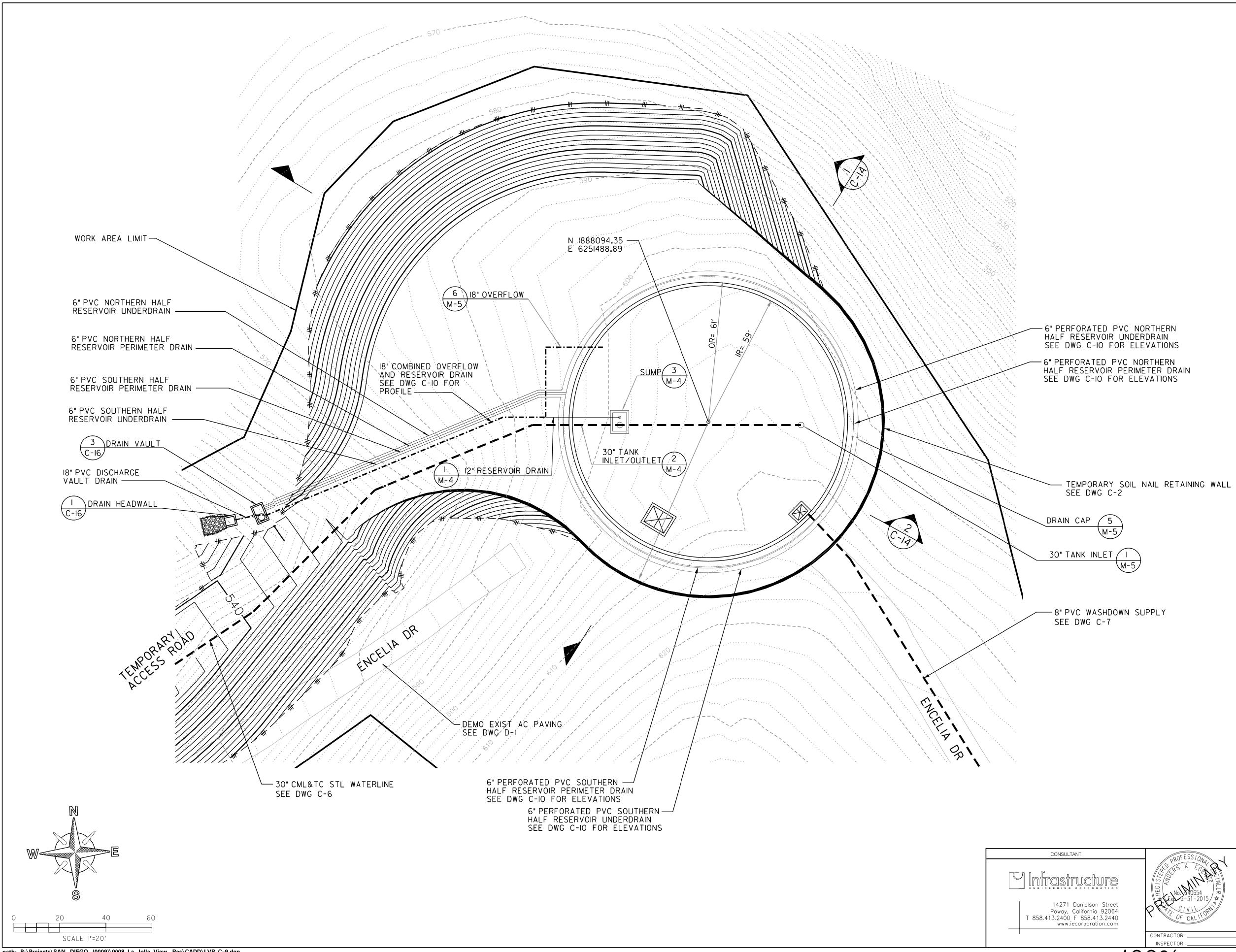




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scale: 1:40.6978

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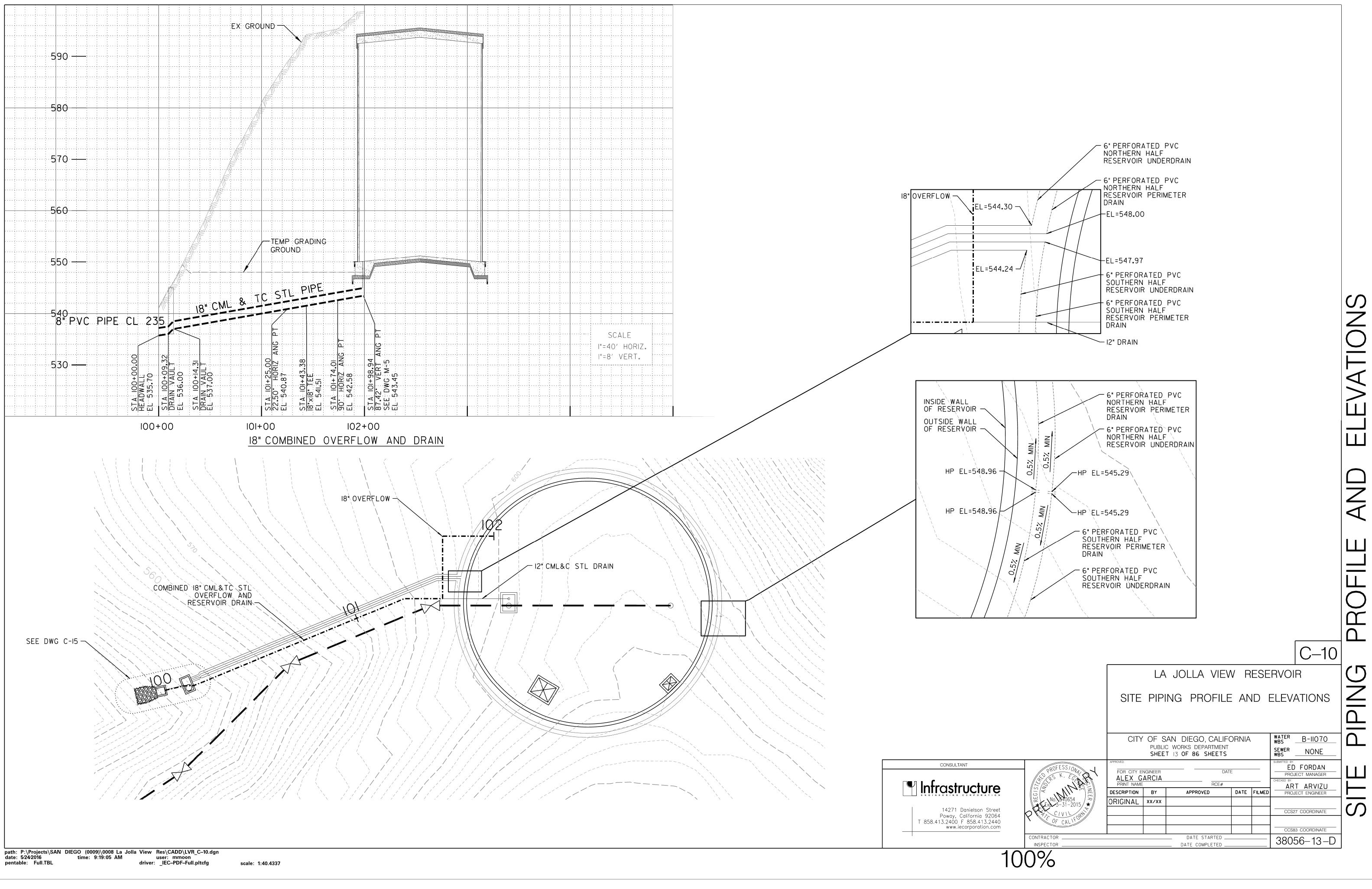
		SI	TE PIPING I		. –	LJVR
	CITY	PUBLIC	AN DIEGO, CALIF WORKS DEPARTMENT 14_0F 86 SHEET	-	A.	water B-11070 wbs NONE
PROFESSIONAL PROFESSIONAL CRS K. ECCURATION	APPROVED: FOR CITY E ALEX G PRINT NAME	ARCIA	DA	TE		SUBMITTED BY: ED FORDAN PROJECT MANAGER CHECKED BY: ART ARVIZU
EE EE	DESCRIPTION	BY	APPROVED	DATE	FILMED	PROJECT ENGINEER
No. 040654	ORIGINAL	XX/XX				246-1692
CIVIL						CCS27 COORDINATE
Y OF CALIFOR						1886444, 6253407 CCS83 COORDINATE
CONTRACTOR	•	•	DATE STARTED _	•	·	38056-14-D
INSPECTOR			DATE COMPLETED _			50050-14-D

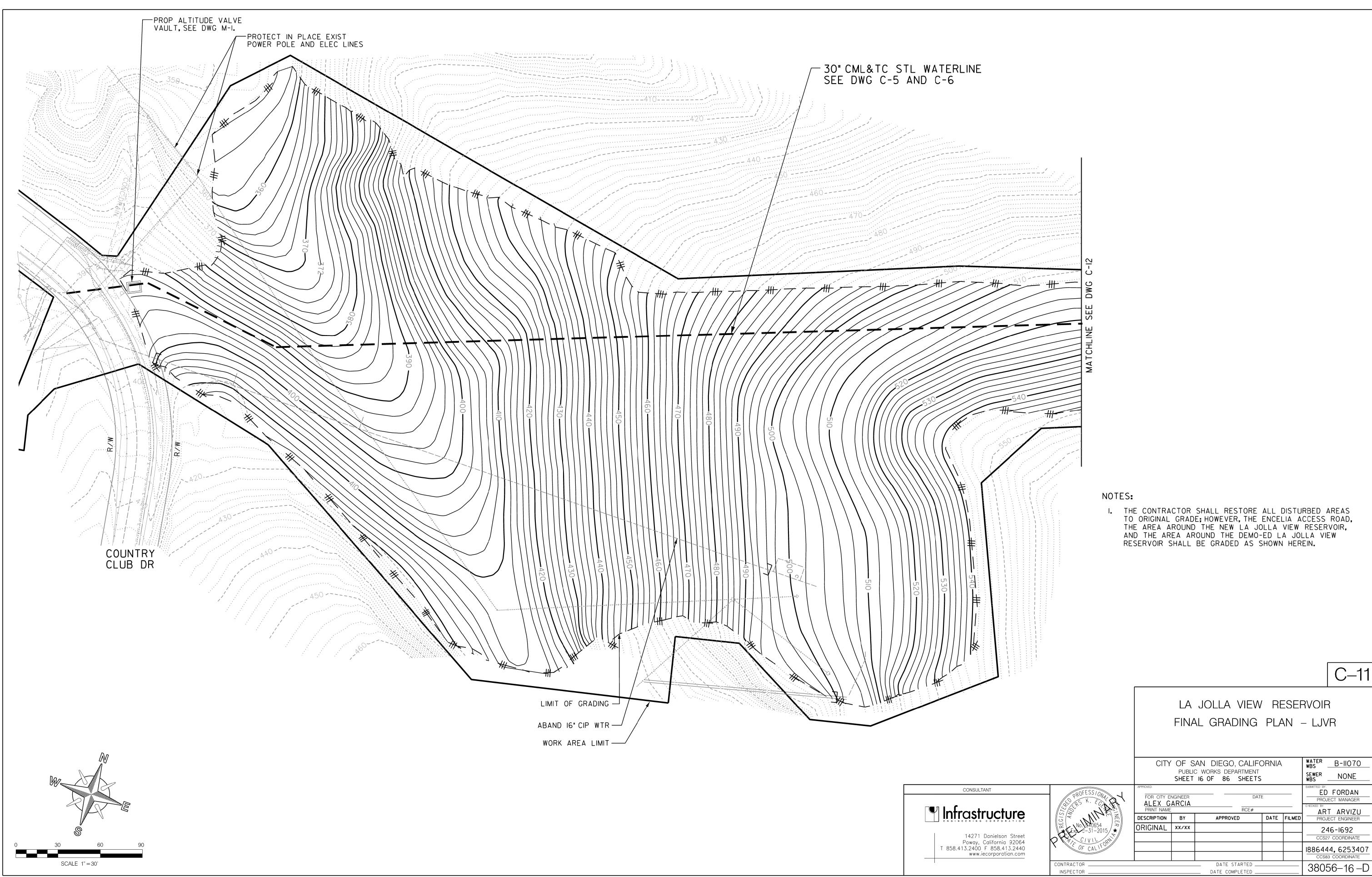
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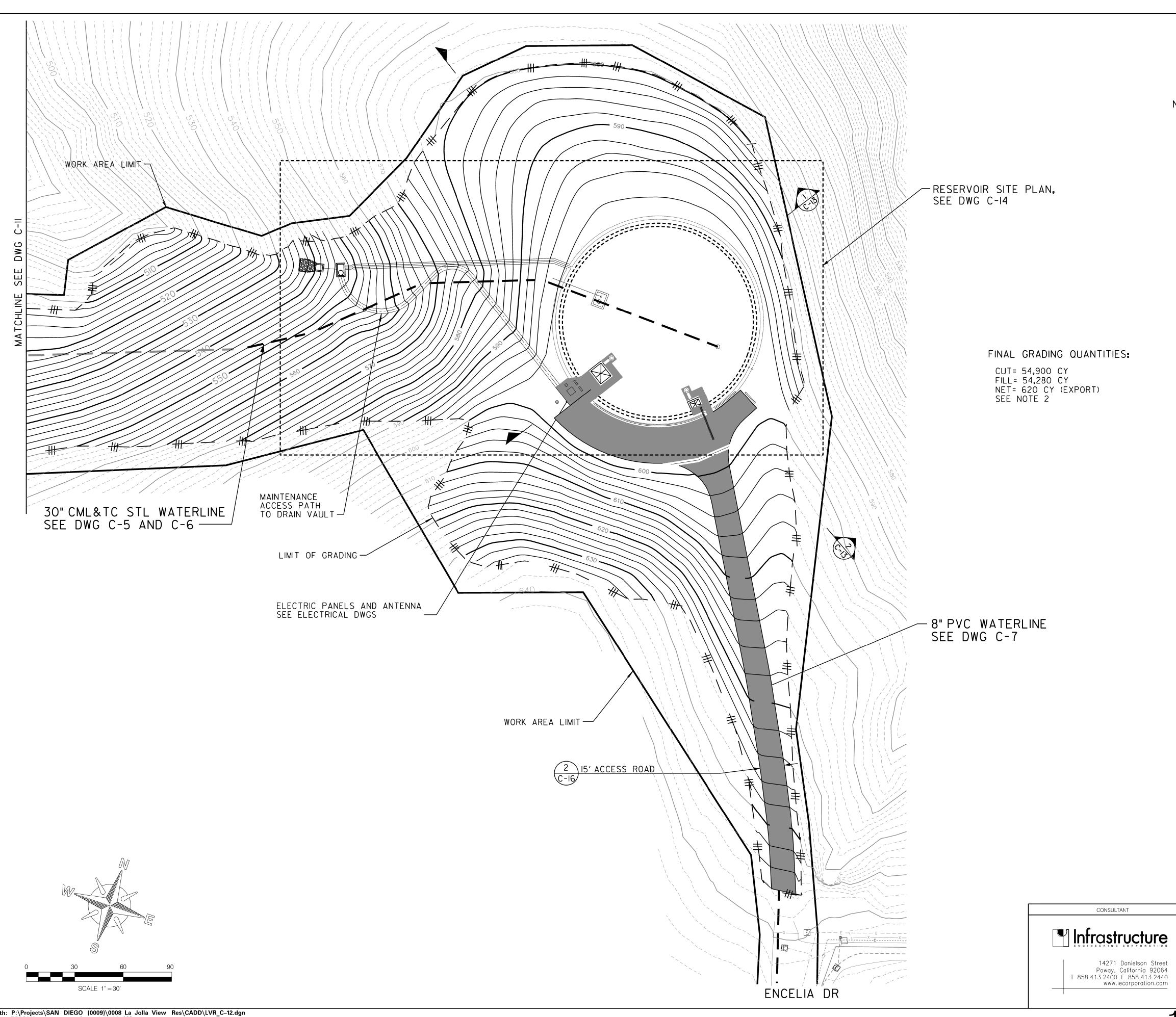




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 (0009)\0008
 La
 Jolla
 View
 Res\CADD\LVR_C-11.dgn

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 5/24/2016
 time:
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 driver:
 IEC-PDF-Full.pltcfg



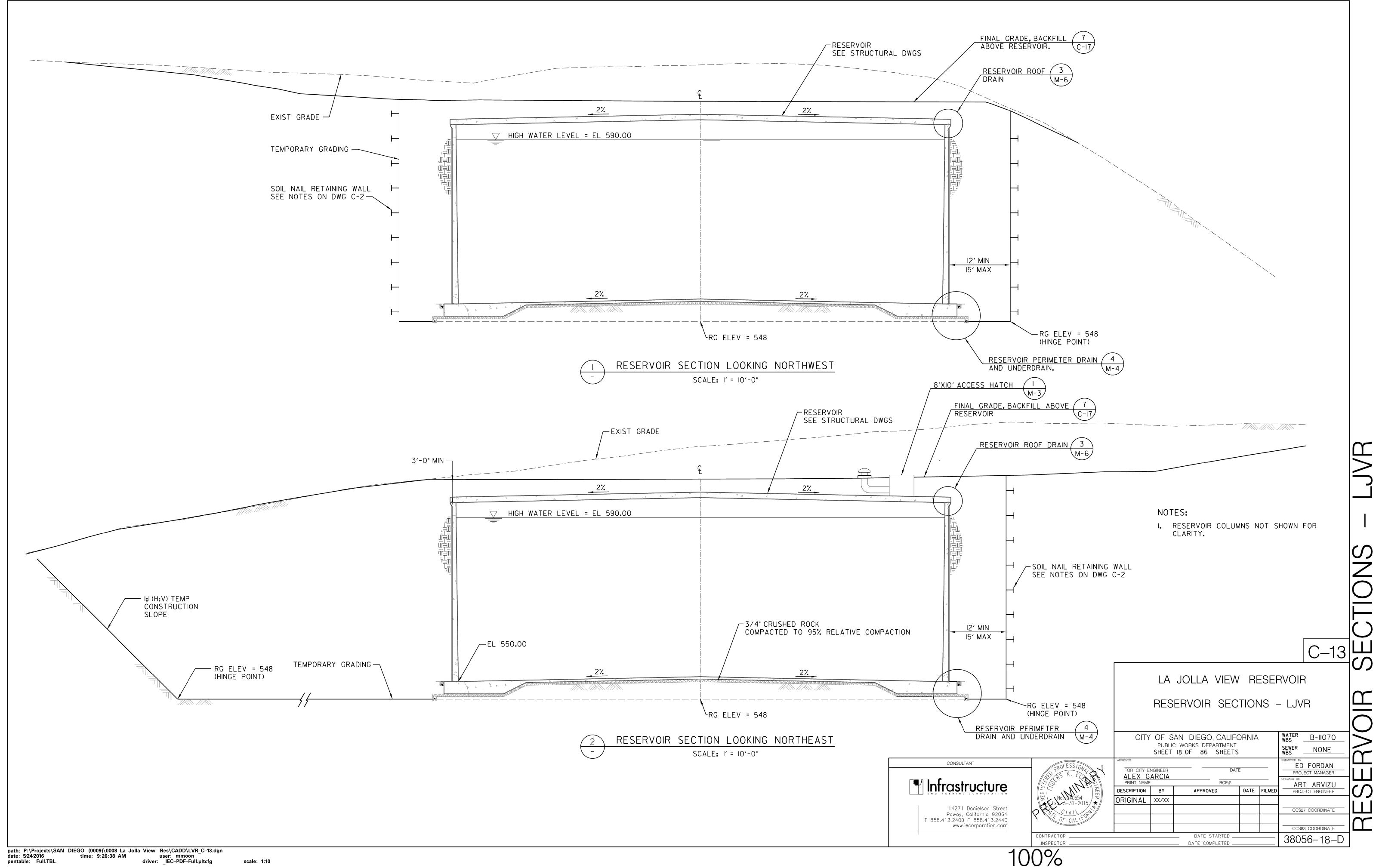
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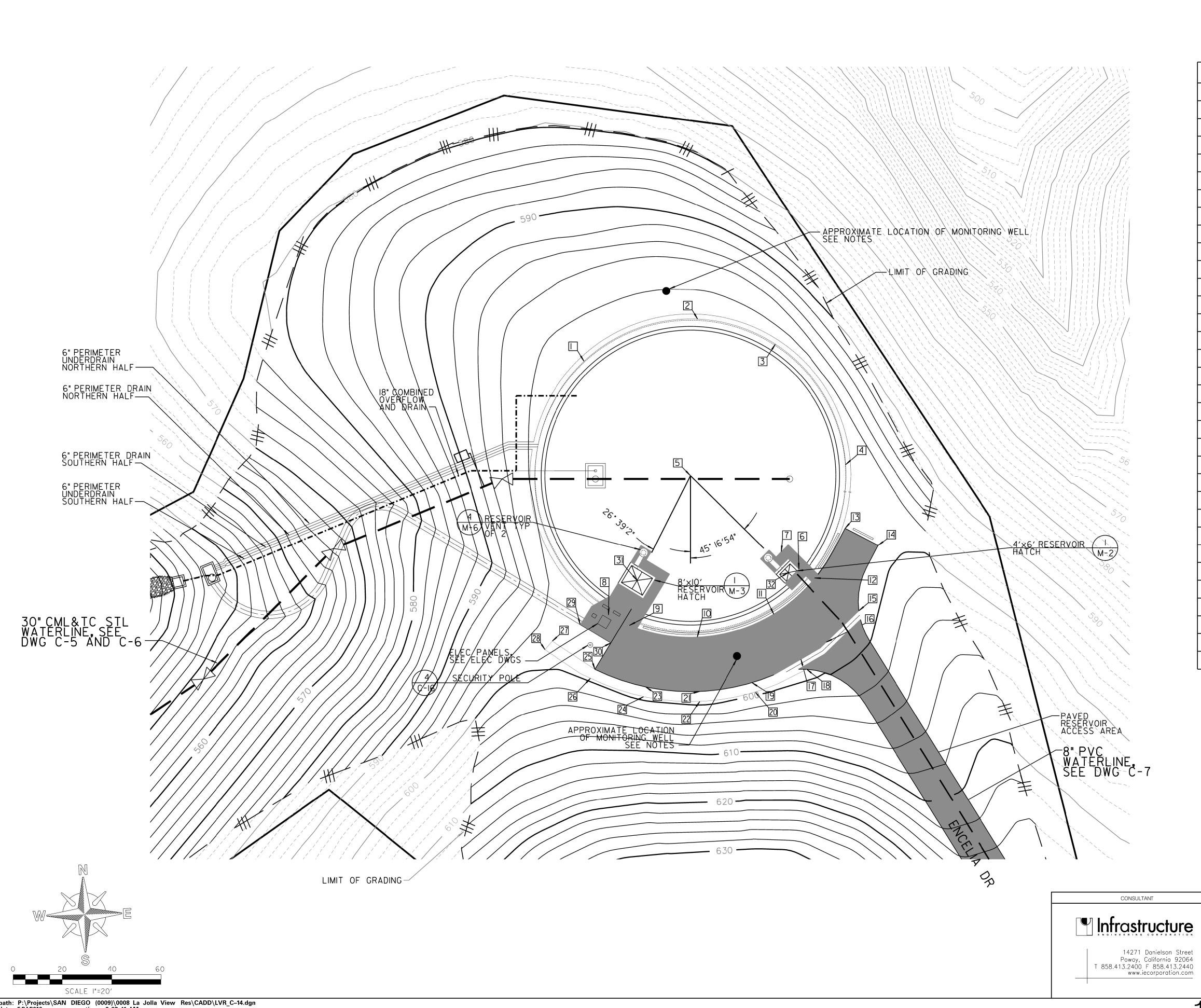
NOTES:

- I. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO ORIGINAL GRADE; HOWEVER, THE ENCELIA ACCESS ROAD, THE AREA AROUND THE NEW LA JOLLA VIEW RESERVOIR, AND THE AREA AROUND THE DEMO-ED LA JOLLA VIEW RESERVOIR SHALL BE GRADED AS SHOWN HEREIN.
- 2. THE QUANTITIES ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL PERFORM QUANTITY TAKE-OFFS FOR BIDDING PURPOSES. NO ADDITIONAL COMPENSATION WILL BE MADE SHOULD ACTUAL QUANTITIES DIFFER FROM QUANTITIES SHOWN HEREON.
- 3. THE TOTAL LOAD ON TOP OF THE FINAL GRADE SURFACE ABOVE THE RESERVOIR SHALL BE LIMITED TO 8,000 LBS.

						C-12 Z
			JOLLA VIEV L GRADING			
	CITY	PUBLIC	AN DIEGO, CALIF WORKS DEPARTMEN 17 OF 86 SHEET	Г		WATER B-11070
PROFESS/ONAL PROFESS/ONAL RS K. EG MA EE EE No No No No No No No No No No No No No	FOR CITY E ALEX G PRINT NAME	ARCIA	D/	ATE		ED FORDAN PROJECT MANAGER CHECKED BY: ART ARVIZU
No. 040654	DESCRIPTION	BY XX/XX	APPROVED	DATE	FILMED	PROJECT ENGINEER
$Ex^{3-31-2015}$						246-1692 CCS27 COORDINATE
OF CALIFOR						1886444, 6253407 CCS83 COORDINATE
CONTRACTOR			DATE STARTED _ DATE COMPLETED _			38056–17 <i>–</i> D
7%						·

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	C00	RDINATE TABL	E
NO	ELEV.	NORTHING	EASTING
I	599 . 0	1888141.47	625I445 . I3
2	599 . I	1888157.78	6251491.77
3	599 . 2	1888147.66	625I523 . 3I
4	599.3	1888098.81	625I55I . 82
5	600 . 5	1888093 . 86	6251488.82
6	599 . 4	1888056.48	625I532 . 82
7	599.3	1888063.51	625I525 . 72
8	598 . 8	1888037.92	6251455.70
9	599 . 2	1888033.72	625I464 . I3
10	599.3	1888028.90	6251491.66
II	599 . 4	1888038.23	6251522.67
12	599 . 5	1888052.87	625I539 . 28
13	599 . 4	1888072.99	6251551 . 61
14	599.3	1888066.06	6251564.92
15	599 . 4	1888039.60	625I557 . I5
16	599.3	1888026.83	6251543.99
17	599 . 2	1888019.95	625I533 . 68
18	599 . 2	1888015.90	625I536 . 00
19	599 . I	1888010 . 55	6251514.08
20	599 . I	1888006.70	6251515 . 15
21	599 . 0	1888006.92	6251492.59
22	599.0	1888002.92	6251492.68
23	598.9	1888004.83	625I470 . 87
24	598.9	1888056.48	625I469 . 96
25	598 . 8	1888015.87	625I450 . I9
26	598 . 8	1888012.28	6251448.42
27	598 . 5	1888027.31	6251432.88
28	598 . 5	1888023.82	6251429.92
29	598.7	1888033.94	6251444.36
30	599.0	1888026.54	625I456 . 62
31	600.0	1888051.88	6251467.23
32	600.0	1888055.74	6251527.88

NOTES:

I. ACTUAL LOCATION OF MONITORING WELL SHALL BE AT LEAST IO FT BUT NO MORE THAN 20 FT FROM THE OUTSIDE FACE OF THE RESERVOIR WALL, SEE SPECS.

			JOLLA VIEV ERVOIR SITE			
	CITY	PUBLIC	AN DIEGO, CALI WORKS DEPARTMEN OF 86 SHEE	IT		water wbs B-11070 sewer wbs NONE
 PROFESSIONAL PROFESSIONAL CONTRACTOR CONTRAC	FOR CITY E ALEX C PRINT NAME	ARCIA	C	ATE		SUBMITTED BY: ED FORDAN PROJECT MANAGER CHECKED BY: ART ARVIZU
S I D S I D	DESCRIPTION	BY	APPROVED	DATE	FILMED	PROJECT ENGINEER
No. 640654 ₹	ORIGINAL	XX/XX				246-1692
						CCS27 COORDINATE
Y OF CALLFOR						1886444, 6253407
						CCS83 COORDINATE
CONTRACTOR		•	DATE STARTED	1		38056-19-D
INSPECTOR			DATE COMPLETED			00000-19-0

Appendix B

2018 Certified Construction & Demolition Recycling Facility Directory



2018 Certified Construction & Demolition (C&D) Recycling Facility Directory

The City of San Diego certifies these facilities to accept the materials listed in each category. Hazardous materials are not accepted. The diversion rate for these materials shall be considered 100 percent, except mixed C&D debris, which updates quarterly. The City is not responsible for changes in facility information. Please call ahead to confirm details such as accepted materials, days and hours of operation, limitations on vehicle types and cost. For more information visit: <u>www.recyclingworks.com</u>.

The Miramar Landfill and other landfills do not recycle mixed C&D debris.				se							0						
To receive recycling credit:				Reu							aste						
A. The mixed C&D facility and transfer station receipts have to				for					elair		≷			es			
be coded as C&D debris <u>and</u> have a project address or	bris	ete	농	ials					JC.		reel		្ល	đur			ş
permit number on the receipt.	Del	ncre	/Ro	ater			ding		e/P(Ľ	a/G		last	t Fi		S	Bloc
B. You must notify weighmaster that your load is subject to the	Mixed C&D Debris	Asphalt/Concrete	Brick/Block/Rock	Building Materials for Reuse	ard		Carpet Padding	Πle	Ceramic Tile/Porcelain	Clean Fill Dirt	Clean Wood/Green Waste		Industrial Plastics	Lamps/Light Fixtures		Mixed Inerts	Styrofoam Blocks
City of San Diego C&D Ordinance.	eq	halt	k/BI	ding	Cardboard	bet	bet	Bu	mi	п	S L	vall	ıstri	/sd	al	ed I	ofo
	Mix	Asp	Bric	Buil	Caro	Carpet	Car	Ceiling Tile	Cera	Clea	Clea	Drywall	Indu	Lam	Metal	Mix	Styr
EDCO Recovery & Transfer																	
3660 Dalbergia St., San Diego, CA 92113	71%											•					
619-234-7774 www.edcodisposal.com/public-disposal																	
EDCO Station Transfer Station & Buy Back Center																	
8184 Commercial St., La Mesa, CA 91942	71%				•							•			•		
619-466-3355 www.edcodisposal.com/public-disposal																	
EDCO CDI Recycling & Buy Back Center																	
224 S. Las Posas Rd., San Marcos, CA 92078	90%				•										•		
760-744-2700 www.edcodisposal.com/public-disposal																	
Escondido Resource Recovery																	
1044 W. Washington Ave., Escondido	71%																
760-745-3203 www.edcodisposal.com/public-disposal																	
Fallbrook Transfer Station & Buy Back Center																	
550 W. Aviation Rd., Fallbrook, CA 92028	71%				•										•		
760-728-6114 www.edcodisposal.com/public-disposal																	
Otay C&D/Inert Debris Processing Facility																	
1700 Maxwell Rd., Chula Vista, CA 91913	72%																
619-421-3773 www.sd.disposal.com																	
Ramona Transfer Station & Buy Back Center																	
324 Maple St., Ramona, CA 92065	71%				•										•		
760-789-0516 www.edcodisposal.com/public-disposal																	
SANCO Resource Recovery & Buy Back Center																	
6750 Federal Blvd, Lemon Grove, CA 91945	71%				•										•		
619-287-5696 www.edcodisposal.com/public-disposal																	
All American Recycling																	
10805 Kenney St., Santee, CA 92071						•											
619-508-1155 (Must call for appointment)																	
Allan Company																	
6733 Consolidated Way, San Diego, CA 92121					•										•		
858-578-9300 www.allancompany.com/facilities.htm																	
Allan Company Miramar Recycling																	
5165 Convoy St., San Diego, CA 92111 858-268-8971 www.allancompany.com/facilities.htm					•										•		
AMS																	
4674 Cardin St., San Diego, CA 92111								J									
858-541-1977 www.a-m-s.com																	

 debris. To receive recycling credit: A. The mixed C&D facility and transfer station receipts have to be coded as C&D debris <u>and</u> have a project address or permit number on the receipt. B. You must notify weighmaster that your load is subject to the City of San Diego C&D Ordinance. Armstrong World Industries, Inc. 300 S. Myrida St., Pensacola, FL 32505 877-276-7876 (Press 1, Then 8) 	Mixed C&D Debris	Asphalt/Concrete	Brick/Block/Rock	Building Materials for Reuse					Ceramic Tile/Porcelain		Clean Wood/Green Waste			SS			
 A. The mixed C&D facility and transfer station receipts have to be coded as C&D debris <u>and</u> have a project address or permit number on the receipt. B. You must notify weighmaster that your load is subject to the City of San Diego C&D Ordinance. Armstrong World Industries, Inc. 300 S. Myrida St., Pensacola, FL 32505 	Mixed C&D Debris	Asphalt/Concrete	ck/Block/Rock	Materials for R					celain		n Wa			SS			
 be coded as C&D debris <u>and</u> have a project address or permit number on the receipt. B. You must notify weighmaster that your load is subject to the City of San Diego C&D Ordinance. Armstrong World Industries, Inc. 300 S. Myrida St., Pensacola, FL 32505 	Mixed C&D Debris	Asphalt/Concrete	ck/Block/Rock	Materials fo					ela Sel		Ē			ăí			
permit number on the receipt. B. You must notify weighmaster that your load is subject to the City of San Diego C&D Ordinance. Armstrong World Industries, Inc. 300 S. Myrida St., Pensacola, FL 32505	Mixed C&D Debr	Asphalt/Concret	ck/Block/Rock	Materia							ē		6	- Lin			
 B. You must notify weighmaster that your load is subject to the City of San Diego C&D Ordinance. Armstrong World Industries, Inc. 300 S. Myrida St., Pensacola, FL 32505 	Mixed C&D D	Asphalt/Conc	ck/Block/R	Mate			ĕ		Por		Gre		stic	-ixti			- X
City of San Diego C&D Ordinance. Armstrong World Industries, Inc. 300 S. Myrida St., Pensacola, FL 32505	Mixed C&	Asphalt/C	ck/Bloc	2	-		Carpet Padding	a	ile/	Clean Fill Dirt	/po		Industrial Plastics	Lamps/Light Fixtures		rts	Styrofoam Blocks
Armstrong World Industries, Inc. 300 S. Myrida St., Pensacola, FL 32505	Mixed	Asphal	ck/E	60	Cardboard		Pa	Ceiling Tile	ic T	Ē	Ň	_	rial	/Lig		Mixed Inerts	an
300 S. Myrida St., Pensacola, FL 32505	Mix	Asp		ldin	db	pet	pet	ling	am	an	an /	Na	usti	sqr	tal	fed	je Je
300 S. Myrida St., Pensacola, FL 32505			Bri	Bui	Car	Carpet	Car	Ceil	Cer	Ü	Cle	Drywall	lnd	Lan	Metal	Mix	Sty
,																	
377-276-7876 (Press 1, Then 8)																	
								•									
www.armSt.rong.com/commceilingsna																	
Cactus Recycling																	
8710 Avenida De La Fuente, San Diego, CA 92154													•		•		
619-661-1283 www.cactusrecycling.com																	
DFS Flooring																	
10178 Willow Creek Rd., San Diego, CA 92131																	
						•	•										
858-630-5200 www.dfsflooring.com																	
Duco Metals																	
220 Bingham Drive Suite 100, San Marcos, CA 92069															•		
760-747-6330 www.ducometals.com																	
Enniss Incorporated																	
12421 Vigilante Rd., Lakeside, CA 92040		•	•						•	•							
619-443-9024 www.ennissinc.com																	
Escondido Sand and Gravel																	
500 N. Tulip St., Escondido, CA 92025		•															
760-432-4690 www.weirasphalt.com/esg																	
Habitat for Humanity Restore																	
10222 San Diego Mission Rd., San Diego, CA 92108				•													
619-516-5267 www.sdhfh.org/reSt.ore.php																	
Hanson Aggregates West. – Lakeside Plant																	
12560 Highway 67, Lakeside, CA 92040		•															
858-547-2141																	
Hanson Aggregates West. – Miramar																	
9229 Harris Plant Rd., San Diego, CA 92126																	
858-974-3849																	
HVAC Exchange																	
2675 Faivre St., Chula Vista, CA 91911															•		
619-423-1855 www.thehvacexchange.com																	
IMS Recycling Services																	
2740 Boston Ave., San Diego, CA 92113					•								•				l
619-423-1564 www.imsrecyclingservices.com																	L
IMS Recycling Services																	
2697 Main St., San Diego, CA 92113													•		•		
619-231-2521 www.imsrecyclingservices.com																	
Inland Pacific Resource Recovery																	
12650 Slaughterhouse Canyon Rd., Lakeside, CA 92040											•						
619-390-1418																	
Lamp Disposal Solutions																	
1405 30 th St., San Diego, CA 92154														•			
858-569-1807 www.lampdisposalsolutions.com																	
Los Angeles Fiber Company																	
4920 S. Boyle Ave., Vernon, CA 90058						•	•										
323-589-5637 www.lafiber.com																	
Miramar Greenery, City of San Diego																	
5180 Convoy St., San Diego, CA 92111																	
858-694-7000 www.sandiego.gov/environmental-											•						
services/miramar/greenery.shtml																	

 The Miramar Landfill and other landfills do not recycle mixed C&D debris. To receive recycling credit: A. The mixed C&D facility and transfer station receipts have to be coded as C&D debris <u>and</u> have a project address or permit number on the receipt. B. You must notify weighmaster that your load is subject to the City of San Diego C&D Ordinance. 	Mixed C&D Debris	Asphalt/Concrete	Brick/Block/Rock	Building Materials for Reuse	Cardboard	Carpet	Carpet Padding	Ceiling Tile	Ceramic Tile/Porcelain	Clean Fill Dirt	Clean Wood/Green Waste	Drywall	Industrial Plastics	Lamps/Light Fixtures	Metal	Mixed Inerts	Styrofoam Blocks
Moody's																	
3210 Oceanside Blvd., Oceanside, CA 92056 760-433-3316		•								•						•	
Otay Valley Rock, LLC																	
2041 Heritage Rd., Chula Vista, CA 91913		•															
619-591-4717 www.otayrock.com																	
Reclaimed Aggregates Chula ViSt.a																	
855 Energy Way, Chula Vista, CA 91913		•														•	
619-656-1836																	
Reconstruction Warehouse																	
3650 Hancock St, San Diego, CA 92110				•													
619-795-7326 www.recowarehouse.com																	
Robertson's Ready Mix																	
2094 Willow Glen Dr., El Cajon, CA 92019		•								•						•	
619-593-1856																	
Romero General Construction Corp.																	
8354 Nelson Way, Escondido, CA 92026		•															
760-749-9312 www.romerogc.com/crushing/nelsonway.htm																	
SA Recycling																	
3055 Commercial St., San Diego, CA 92113															•		
619-238-6740 www.sarecycling.com																	
SA Recycling																	
1211 S. 32 nd St., San Diego, CA 92113															•		
619-234-6691 www.sarecycling.com Universal Waste Disposal																	
8051 Wing Avenue, El Cajon, CA 92020																	
619-438-1093 www.universalwaSt.edisposal.com														•			
Vulcan Carol Canyon Landfill and Recycle Site																	
10051 Black Mountain Rd., San Diego, CA 92126		•	•							•						•	
858-530-9465 www.vulcanmaterials.com																	
Vulcan Otay Asphalt Recycle Center																	
7522 Paseo de la Fuente, San Diego, CA 92154		•															
619-571-1945 www.vulcanmaterials.com																	

Appendix C

2016 City of San Diego C&D Debris Conversion Rate Table



CITY OF SAN DIEGO Construction & Demolition (C&D) Debris Conversion Rate Table

This worksheet lists materials typically generated from a constructionor demolition project and provides formulas for converting common units (i.e. cubic yards, square feet, and board feet) to tons. It is a tool that should be used for preparing your Waste Mangement Form - Part I, which requires that quantities be provided in tons.

Note: Weigh receipts are required for your refund request.

Step 1: Enter the estimated quantity for each applicable material in Column I, based on units

Step 2: Multiply by Tons/Unit figure listed in Column II. Enter the result for each material in Column III.

If using Excel version, column III will automatically calculate tons.

Step 3: Enter quantities for each separated material from Column III on this worksheet into the corresponding section of your Waste Management Form - Part I.

		Column I			Column II			Column III	
<u>Category</u>	<u>Material</u>	Volume	Unit		Tons/Unit		<u>Tons</u>		
Asphalt/Concrete	Asphalt (broken)		су	х	0.70	=			
	Concrete (broken)		су	х	1.20	=			
	Concrete (solid slab)		су	Х	1.30	=			
Brick/Masonry/Tile	Brick (broken)		су	X	0.70	=			
	Brick (whole, palletized)		су	х	1.51	=			
	Masonry Brick (broken) Tile		_cy	X	0.60	=			
	The		_sq ft	х	0.00175	=			
Building Materials (doors, windows	s, cabinets, etc.)		су	x	0.15	=			
Cardboard (flat)			су	x	0.05	=			
Carpet	By square foot		sq ft	x	0.0005	=			
	By cubic yard		су	X	0.30	=			
Carpet Padding/Foam			_sq ft	x					
Ceiling Tiles	Whole (palletized)		sq ft	x	0.0003	=			
Ũ	Loose		су	х	0.09	=			
Drywall (new or used)	1/2" (by square foot)		sq ft	х	0.0008	=			
	5/8" (by square foot)		sq ft	х					
	Demo/used (by cubic yd)		су	x					
Earth	Loose/Dry		су	x	1.20	=			
	Excavated/Wet		су	х	1.30	=			
	Sand (loose)		су	x					
Landscape Debris (brush, trees, e	tc)		су	x	0.15	=			
Mixed Debris	Construction		су	x	0.18	=			
	Demolition		су	x	1.19	=			
Scrap metal			су	x	0.51	=			
Shingles, asphalt			су	x	0.22	=			
Stone (crushed)			су	x	2.35	=			
Unpainted Wood & Pallets	By board foot		bd ft	x	0.001375	=			
	By cubic yard		су	x	0.15	=			
Garbage/Trash			су	x	0.18	=			
Other (estimated weight)			су	x	estimate	=			
			су	x	estimate	=			
			су	x	estimate	=			
					Total All				