Regional Sewerage Program
Technical Committee Meeting

AGENDA
Thursday, January 27, 2022
2:00 p.m.
Teleconference Call

In an effort to prevent the spread of COVID-19, the Regional Sewerage Program Technical Committee Meeting will be held remotely by teleconference.

Teams Conference Link: https://teams.microsoft.com/l/meetup-join/19%3ameeting_NmRmY2FmMDYtNTBmMS00MjA5LTk3ODgtZDkyY2U3MTRmZGYz%40thread.v2/0?context=%7b%22Tid%22%3a%224c0c1e57-30f3-4048-9bd2-cd58917dcf07%22%2c%22Oid%22%3a%22329ec40e-eb94-4218-9621-6bfa0baa9697%22%7d

Teleconference: (415) 856-9169/Conference ID: 715 477 121#

This meeting is being conducted virtually by video and audio conferencing. There will be no public location available to attend the meeting; however, the public may participate and provide public comment during the meeting by calling the number provided above. Alternatively, you may email your public comments to the Recording Secretary Sally Lee at shlee@ieua.org no later than 24 hours prior to the scheduled meeting time. Your comments will then be read into the record during the meeting.

Call to Order

Roll Call

Public Comment

Members of the public may address the Committee on any item that is within the jurisdiction of the Committee; however, no action may be taken on any item not appearing on the agenda unless the action is otherwise authorized by Subdivision (b) of Section 54954.2 of the Government Code. Comments will be limited to three minutes per speaker.

Additions to the Agenda

In accordance with Section 54954.2 of the Government Code (Brown Act), additions to the agenda require two-thirds vote of the legislative body, or, if less than two-thirds of the members are present, a unanimous vote of

(Continued)

those members present, that there is a need to take immediate action and that the need for action came to the attention of the local agency subsequent to the agenda being posted.

1. **Action Items**
   A. Approval of November 29, 2021 Special Technical Committee Meeting Minutes
   B. Request by the City of Chino for a Regional Sewage Connection at Chino Parkway and Serenity Trails (#C-45)

2. **Informational Items**
   A. Rialto Water Principles Agreement
   B. Recycled Water Cost of Service Study
   C. Engineering Quarterly Project Update
   D. Groundwater Recharge Update
   E. Operations Quarterly Division Quarterly Update
   F. Return to Sewer Study *(Oral)*
   G. Operations & Compliance Updates (*Oral)*

3. **Receive and File**
   A. Draft Regional Sewerage Program Policy Committee Meeting Agenda
   B. Building Activity Report
   C. Recycled Water Distribution - Operations Summary

4. **Technical Committee Items Distributed**
   None

5. **Other Business**
   A. IEUA General Manager's Update
   B. Committee Member Requested Agenda Items for Next Meeting
   C. Committee Member Comments
   D. Next Regular Meeting – February 24, 2022

Adjournment

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the Recording Secretary (909) 993-1926, 48 hours prior to the scheduled meeting so that the Agency can make reasonable arrangements.

DECLARATION OF POSTING

I, Laura Mantilla, Executive Assistant of the Inland Empire Utilities Agency*, a Municipal Water District, hereby certify that, per Government Code Section 54954.2, a copy of this agenda has been posted at the Agency's main office, 6075 Kimball Avenue, Building A, Chino, CA and on the Agency's website at www.ieua.org at least seventy-two (72) hours prior to the meeting date and time above.

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact Sally Lee at (909) 993-1926 or shlee@ieua.org 48 hours prior to the scheduled meeting so that IEUA can make reasonable arrangements to ensure accessibility.

ACTION ITEM

1A

Regional Sewerage Program

Special Technical Committee Meeting

MINUTES OF NOVEMBER 29, 2021

CALL TO ORDER

A special meeting of the IEUA/Regional Sewerage Program – Technical Committee was held via teleconference on Thursday, November 29, 2021. Committee Chair Nicole deMoet/City of Upland called the meeting to order at 2:04 p.m. Recording Secretary Laura Mantilla took roll call and established a quorum was present.

ATTENDANCE via Teleconference

COMMITTEE MEMBERS PRESENT:

Dave Crosley	City of Chino
Ron Craig	City of Chino Hills
Eduardo Espinoza	Cucamonga Valley Water District (CVWD)
Abigail Gomez	City of Fontana
Courtney Jones	City of Ontario
Nicole deMoet	City of Upland
Christiana Daisy	Inland Empire Utilities Agency (IEUA)

ABSENT:

Monica Heredia	City of Montclair

OTHERS PRESENT:

Amanda Coker	City of Chino
Christopher Quach	City of Ontario
Braden Yu	City of Upland
Kathy Besser	Inland Empire Utilities Agency
Christina Valencia	Inland Empire Utilities Agency
Javier Chagoyen-Lazaro	Inland Empire Utilities Agency
Jerry Burke	Inland Empire Utilities Agency
Don Hamlett	Inland Empire Utilities Agency
Elizabeth Hurst	Inland Empire Utilities Agency
Eddie Lin	Inland Empire Utilities Agency
Ryan Love	Inland Empire Utilities Agency

DRAFT

OTHERS PRESENT (continued):

Laura Mantilla	Inland Empire Utilities Agency
Jason Marseilles	Inland Empire Utilities Agency
Matt Poeske	Inland Empire Utilities Agency
Jeanina Romero	Inland Empire Utilities Agency
Frank Sotomayer	Inland Empire Utilities Agency
Ken Tam	Inland Empire Utilities Agency
Teresa Velarde	Inland Empire Utilities Agency

PUBLIC COMMENTS

There were no public comments.

ADDITIONS/CHANGES TO THE AGENDA

There were no additions/changes to the agenda.

1. ACTION ITEMS

A. APPROVAL OF OCTOBER 28, 2021 TECHNICAL COMMITTEE MEETING MINUTES

Motion: By Dave Crosley/City of Chino and seconded by Eduardo Espinoza/CVWD to approve the meeting minutes of the October 28, 2021, Regional Technical Committee meeting by the following vote:

Ayes: Crosley, Espinoza, Craig, Gomez, Daisy, Jones, deMoet
Noes: None
Absent: Heredia
Abstain: None
The motion passed by a vote of 7 ayes, 0 noes, 0 abstain, and 1 absent.

B. &C. APPROVAL OF THE SEWER CONNECTION C-44 TO THE WESTSIDE INTERCEPTOR REQUEST BY THE CITY OF CHINO AND APPROVAL OF THE SEWER CONNECTION F-32 TO THE ETIWANDA TRUNK SEWER REQUEST BY THE CITY OF FONTANA

Jerry Burke/IEUA provided the background and recommendation on two sewer connection requests received from the City of Chino (Sewer Connection #C-44) and the City of Fontana (Sewer Connection #F-32).

Motion: By Eduardo Espinoza/CVWD and seconded by Dave Crosley/City of Chino to approve the Sewer Connection (C-44) to the Westside Interceptor request by the City of Chino and approve the Sewer Connection (F-32) to the Etiwanda Trunk sewer request by the City of Fontana by the following vote:

Ayes: Crosley, Espinoza, Craig, Gomez, Daisy, Jones, deMoet
Noes: None
Absent: Heredia
Abstain: None
The motion passed by a vote of 7 ayes, 0 noes, 0 abstain, and 1 absent.

2. INFORMATIONAL ITEMS

A. RETURN TO SEWER STUDY

Ken Tam/IEUA provided an update on the Return to Sewer Study. He reported that Data Collaborative continues to perform analysis on the data from the City of Chino and City of Fontana and CVWD. Once the data is available, a meeting will be scheduled with the subgroup to review the results in December.

B. OPERATIONS & COMPLIANCE UPDATES

Ken Tam/IEUA reported that the southern service area experienced another foaming disruption at the Carbon Canyon Facility on November 24, 2021. IEUA and the City of Chino's Source Control team performed site inspections at two industries that potentially could have caused the foaming and did not find any evidence from either of those facilities. He noted that the facility that caused the foaming in September 2021, completed the necessary facility upgrades and staff training. Staff will continue to investigate and gather information from those facilities and monitor the downstream of those facilities. Mr. Tam thanked the City of Chino Source Control staff for working with IEUA on this matter.

3. RECEIVE AND FILE

A. DRAFT REGIONAL SEWERAGE PROGRAM POLICY COMMITTEE MEETING

B. BUILDING ACTIVITY REPORT

C. RECYCLED WATER DISTRIBUTION – OPERATIONS SUMMARY

D. ANNUAL REPORTS (10-YEAR GROWTH FORECAST, RECYCLED WATER & ENERGY)

Items 3A through 3D were received and filed by the Committee.

4. TECHNICAL COMMITTEE ITEMS DISTRIBUTED

There were no items distributed.

5. OTHER BUSINESS

A. IEUA GENERAL MANAGER'S UPDATE

Christiana Daisy/IEUA stated that during the last Technical Committee meeting, a request was received for an action item to consider the extension of the Kearns & West Regional Contract Facilitation services. The contract is set to expire at the end of December 2021. There is $236,970 of the budget remaining on the contract. IEUA reached out to Mike Harty of Kearns & West to request feedback on his interest in continuing to provide facilitation services. Mr. Harty agreed to continue as a facilitator for as long as both the contracting agencies and IEUA find his services valuable. There was a consensus from the contracting agencies and IEUA that the facilitation service provided by Kearns & West is important to support the negotiation process. IEUA will proceed to extend the facilitation contract through June 30, 2022.

B. COMMITTEE MEMBER REQUESTED AGENDA ITEMS FOR NEXT MEETING

Ron Craig/City of Chino Hills requested the latest status of the CASA Study. Mr. Tam stated he will follow up and provide the latest update.

DRAFT

C. COMMITTEE MEMBER COMMENTS

There were no member comments.

D. NEXT MEETING – DECEMBER 30, 2021

Chair deMoet stated that there are no action items for the December meeting and asked the Committee if they desire to hold the December meeting or cancel. The Committee agreed to cancel the December 30 meeting.

ADJOURNMENT – Chair deMoet adjourned the meeting at 2:22 p.m.

Prepared by:

_____

Laura Mantilla, Recording Secretary

DRAFT

ACTION ITEM

1B

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

Date: January 27, 2022

To: Regional Technical Committee

From: Inland Empire Utilities Agency

Subject: Request by the City of Chino for a Regional Connection Point to the Chino Trunk Interceptor Chino Regional Sewer Connection # C-45 (Project No. EN0000000104)

RECOMMENDATION

It is recommended that the Regional Technical Committee approve the request by the City of Chino for one new connection point to the Chino Trunk Interceptor (Chino Regional Sewer Connection # C-45) contingent upon:

1. Collection of permit and hydraulic modeling fees; and,
2. The City of Chino providing the LAFCO approved resolution ratifying the Irrevocable Agreement to Annex the noted area for sewer service.

BACKGROUND

In April of 2021, the Inland Empire Utilities Agency (IEUA) received a request from the City of Chino to evaluate impacts to the Regional Sewerage System due to the annexation of the Serenity Trails development to the City of Chino.

A request dated January 18, 2022 (Attachment "A"), has been provided, based on previous correspondence between the City, Developer, and IEUA, for connection of the Summerland Senior Living Development (Development), located at 13225 Serenity Trail in the City's sphere of influence. This development consists of a 109 unit assisted living/memory care facility and requires approval for a new regional connection to the Chino Trunk Interceptor at Station 35+67.24 through a tie-in to an existing manhole on the 24-inch interceptor.

The Average Dry Weather Flow (ADWF) was provided by the City for the proposed development and they were utilized to evaluate the impact on the Regional Interceptors.

SUMMARY OF FLOW RATES UTILIZED

Chino Regional Connection C-45:

Average Dry Weather Flow (ADWF) Rate = 0.057 MGD
Peak Dry Weather Flow (PDWF) Rate = 0.136 MGD
Peak Wet Weather Flow (PWWF) Rate = 0.184 MGD

The hydraulic model was used to evaluate the capacity of the Chino Trunk Interceptor and the interceptors downstream. The projected total PWWF with Serenity Trail will be 1.094 MGD. This is less than the maximum capacity of 1.11 MGD in the Chino Trunk Interceptor at the downstream limiting 15" pipeline/siphon. The analysis indicates that the downstream sewer(s) has/have sufficient capacity to convey

Chino and Chino Hills flows plus the Serenity Trail development and downstream Under PDWF conditions, the pipe will be less than half full.

ATTACHMENT A

City of Chino Regional Interceptor Request

Dated January 18, 2022

EUNICE M. ULLOA
Mayor

MARC LUCIO
Mayor Pro Tem

KAREN C. COMSTOCK
CHRISTOPHER FLORES
WALT POCOCK
Council Members

MATTHEW C. BALLANTYNE
City Manager

CITY of CHINO

January 18, 2022

Mr. Matthew A. Poeske, PE
Senior Engineer
Inland Empire Utilities Agency
6075 Kimball Avenue
Chino, CA 91708

Subject: Sewer Connection to existing 24" IEUA sewer Chino Avenue Sewer Connector No. SB-2 at Station 35+67.24 for the Serenity Trail Sewer Project

Dear Mr. Poeske:

The Summerland Senior Living located at 13225 Serenity Trail in the City's sphere of influence consists of a 109 unit assisted living/memory care facility.

Recently, the owner requested that the project be allowed to connect to the City's sanitary sewer system as a better long-term solution than constructing an on-site septic system. In exchange for allowing sewer service connection, the owner agreed to provide additional sewer line infrastructure beyond the normally required amount along the project's frontage to serve the broader area moving into the future. It was determined that the sewer main extension in Serenity Trail would be extended further north to the end of the cul-de-sac located at the intersection with Hillview Drive North (as shown on the attached location map) for the proposed sewer extension limits in Serenity Trail. There is capacity in the existing sewer line in Chino Avenue to the south to accommodate the project and the additional flow estimated from added sewer infrastructure along Serenity Trail.

The property owners have executed an Irrevocable Agreement to Annex, as amended, with the City for said property. With the adoption of Resolution No. 2021-083, the City Manager was authorized to execute the Local Agency Formation Commission ("LAFCO") Application for Extension of Service by Contract. The proposed hearing date is February 16, 2022 and upon approval by LAFCO, the City of Chino will provide the approved resolution ratifying the Irrevocable Agreement to Annex for Sewer to IEUA.

Consequently, the City is hereby formally requesting "one" new point of connection for this development and future development along Serenity Trail. The connection is a new 8" public sewer main to the existing IEUA sewer manhole. The sewer main's point of connection to the existing manhole is located at Station 35+67.24 on sheet 4 of approved Sewer Plan Chino Avenue Sewer Connector No. SB-2.

The peak wastewater flows included in the sewer study provided by Huitt-Zollars on behalf of Summerland Chino MGR, LLC are summarized below:

13220 Central Avenue, Chino, California 91710
Mailing Address: P.O. Box 667, Chino, California 91708-0667
(909) 334-3250 • (909) 334-3720 Fax
Web Site: www.cityofchino.org

Calculated Flows Summerland Senior Living Development:

1. The estimated average outflow is 30,250 gallons per day
2. The estimated maximum outflow is 84,700 gallons per day

Calculated Tributary Flows:

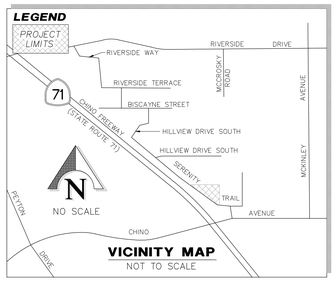
1. Average Dry Weather Flow (ADWF) = 0.057 million gallons per day
2. Peak Wet Weather Flow (PWWF) = 0.184 million gallons per day

If you should need any further information, please feel free to contact Sylvia Ramos, Associate Engineer at (909) 334-3418.

Sincerely,

Amer Jakher
Director of Public Works, Acting City Engineer

TRIBUTARY BOUNDARY MAP
FOR
SERENITY TRAIL



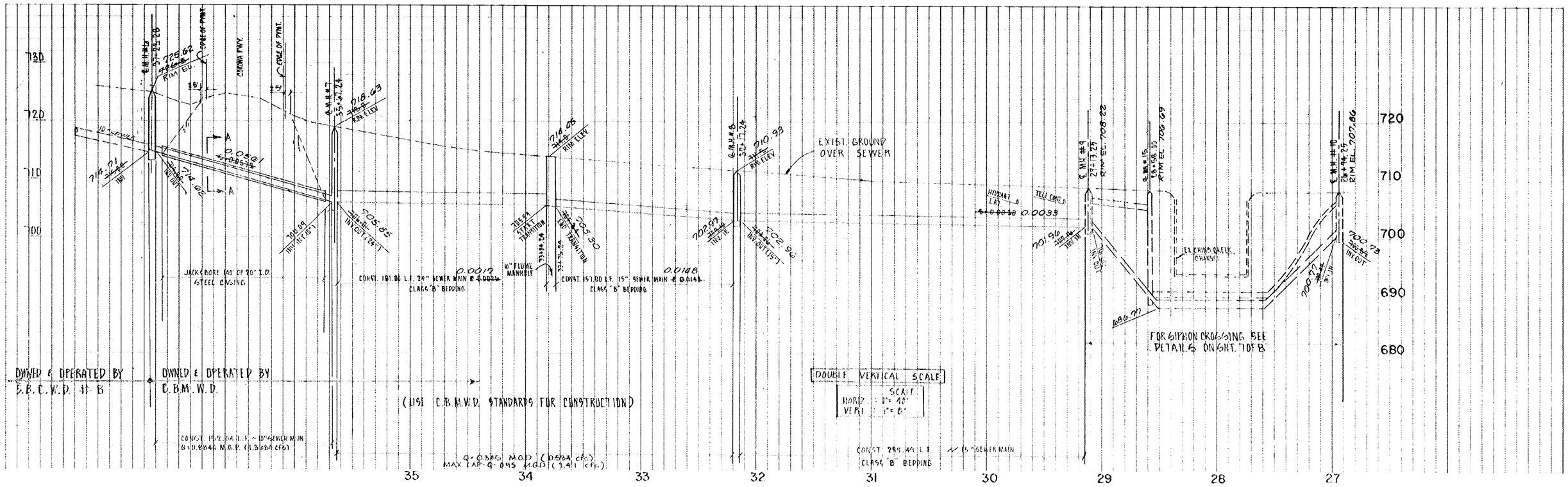
LEGEND

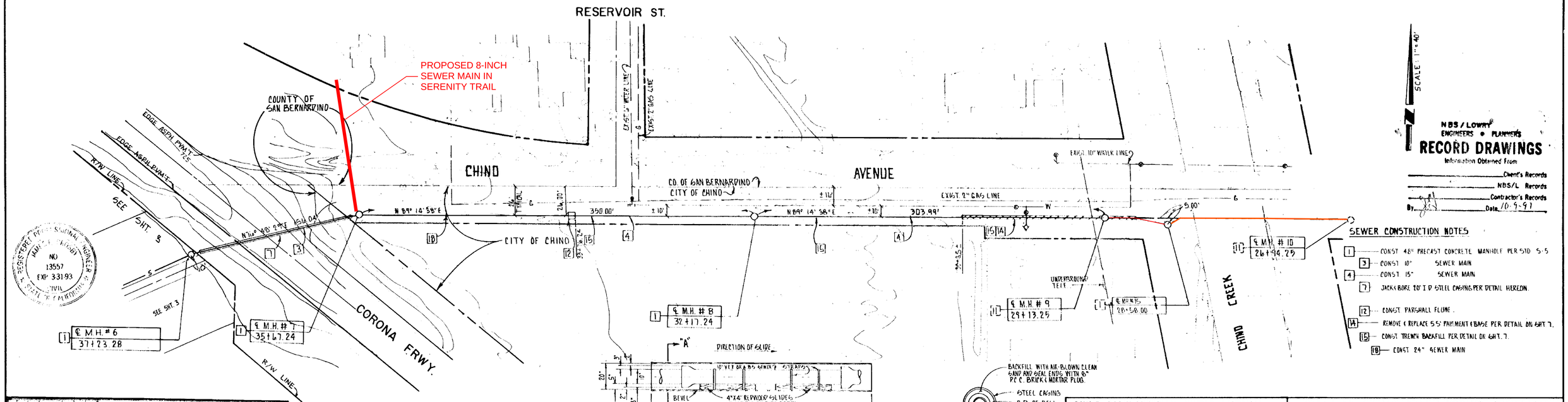
PROPOSED SEWER PROJECT LIMITS

FUTURE SERENITY TRAIL SEWER MAIN EXTENSION BY OTHERS

NOTE: SERENITY TRAIL, RESERVOIR RD. AND HILLVIEW SOUTH DR. HAVE PUBLIC ROW. OTHERS ARE PRIVATE ROADS OR MAY HAVE PRIVATE EASEMENTS. SEWER EASEMENTS WOULD BE REQUIRED.

Huitt-Zollars, Inc. Ontario 3990 CONCOURS, SUITE 330 • ONTARIO, CALIFORNIA 91764 • (909) 941-7799	**CITY OF CHINO** TRIBUTARY BOUNDARY MAP **SERENITY TRAIL SEWER MAIN** FOR **SERENITY TRAIL** SHEET 1 NO. 1





REGISTERED PROFESSIONAL ENGINEER JAMES E. CROSBY NO. 13557 EXP. 3-31-93 CIVIL STATE OF CALIFORNIA

BENCHMARK:
CALTRANS BENCHMARK 3-58-77-58 PER F.B. 07-LA-071-B PAGE 1-B CHISELED SQUARE IN N.W. EDGE OF HEADWALL 330' SOUTHERLY OF COUNTY LINE, 50' WEST OF CENTERLINE CONST. HIGHWAY 71. ELEV. 777.13

Gosbel Consultants Civil Engineers
1932 E. DEERE AVE.
SUITE 100
SANTA ANA, CA. 92705
(714) 261-9560

James E. Crosby 13557 11-9-90
R.C.E. NO. DATE
DESIGNED
DRAWN
CHECKED
SCALE AS SHOWN

PLANS PREPARED FOR
BRAMALEA CALIFORNIA INC.
ONE PARK PLAZA, SUITE 1100
IRVINE, CA. 92714
(714) 851-3131

NO.	DATE	APP.	REVISIONS

DRAWN | DESIGNED | CHECKED

SAN BERNARDINO COUNTY WATERWORKS DISTRICT NO. 8
APPROVED BY:
DISTRICT MANAGER — DATE 12/21/90
DISTRICT ENGINEER RCE 11900 — DATE 12-19-90

CHINO BASIN MUNICIPAL WATER DISTRICT
APPROVED BY:
OFFICE ENGINEER — DATE 12/3/90

CITY OF CHINO ENGINEERING DIVISION
APPROVED BY
CHECKED BY: HN 12.05.90
Joseph L. Schenk
DEPUTY CITY ENGINEER RE 24030 — DATE 12/17/90

PARCEL MAP NO. 10048
TRACT 14442

CHINO AVE. SEWER
CONN NO. SB-2

W.O. NO. 579
FILE NO.
SHEET 4 OF 8

D-4582-4

GMEP Engineers
26439 Rancho Parkway S., Ste 120
Lake Forest, CA 92630
Ph: (949)267-9095
www.gmepe.com

Project: Summerland Assisted Living
Location: 13225 Serenity Trail
Chino, CA 91710

Date: 12/08/21

To Whom it May Concern,

The following table is a total calculation of all the water fixture units (WFU) and drainage fixture units (DFU) for the Summerland Assisted Living building.

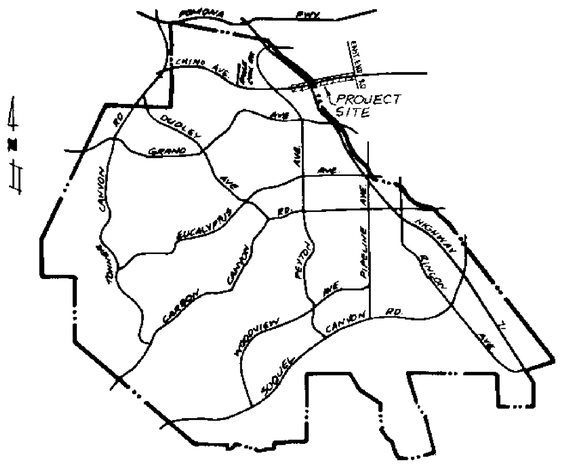
TOTAL FIXTURE UNIT CALCULATIONS FOR BUILDING

UNIT TYPE	QTY	DOMESTIC WATER		DRAINAGE	
		COLD WATER FIXTURE UNITS (CWFU)	TOTAL COLD WATER DEMAND (CWFU)	DRAINAGE FIXTURE UNITS (DFU)	TOTAL (DFU)
UNIT PLAN 1 (RESIDENCE)	83	7.0	581.0	8	664
PLAN 2 (RESIDENCE)	3	12.5	37.5	14	42
MEMORY CARE UNIT	8	5.5	44.0	6	48
SEMI PRIVATE MEMORY CARE UNIT	20	6.5	130.0	7	140
RESIDENTIAL LAUNDRY ROOM PLAN 1	6	9.5	57.0	8	48
RESIDENTIAL LAUNDRY ROOM PLAN 2	1	5.5	5.5	5	5
COMMERCIAL KITCHEN & LAUNDRY	1	29.5	29.5	29	29
BISTRO KITCHEN	1	1.0	1.0	2	2
THEATER	1	1.5	1.5	2	2
MC ACTIVITY ROOM	1	1.5	1.5	2	2
COUNTRY KITCHEN & SERVERY	1	2.5	2.5	7	7
SALON	1	7.5	7.5	7	7
ARTS&CRAFTS KITCHEN	1	1.0	1.0	2	2
MOP SINKS (HOUSE KEEPING)	10	3	30.0	3	30
RESTROOMS	7	3.5	24.5	4	28
MEDICINE ROOM	3	1.0	3.0	2	6
HOSE BIBB	1	2.5	2.5	0	0
HOSEBIBB (EACH ADDITIONAL)	4	1.0	4.0	0	0
TOTAL FIXTURE UNITS			963.5		1062
EQUIVALENT WATER DEMAND IN GPM			203		
REQUIRED MINIMUM PIPE SIZE			4"		8"

Steve Sheffield, PE
Project Engineer

REGISTERED PROFESSIONAL ENGINEER
STEVEN B. SHEFFIELD
No. M39058
Exp. 9-30-2022
MECHANICAL
STATE OF CALIFORNIA

IMPROVEMENT PLANS FOR
PARCEL MAP NO. 10048
IN THE COUNTY OF SAN BERNARDINO
FOR THE CONSTRUCTION OF
CHINO AVE. SEWER IMPROVEMENTS



VICINITY MAP
NOT TO SCALE

CONSTRUCTION NOTES & ESTIMATE OF QUANTITIES
SEWER

NO	ITEM DESCRIPTION	UNIT	QUANT.
1	CONST 48" PRECAST CONCRETE MANHOLE PER STD. B-5	EA.	12
2	CONST 8" SEWER LATERAL (VCP OR ABS)	LF	50
3	CONST 10" SEWER MAIN (VCP OR ABS)	LF	2115
4	CONST 15" SEWER MAIN (VCP OR ABS)	LF	211
5	REMOVE EXISTING PLUG & JOIN	EA.	2
6	INSTALL 8" PLUG	EA.	1
7	JACK & BORE 90" I.D. STEEL CASING	L.F.	140
8	JACK & BORE 36" I.D. STEEL CASING	L.F.	80
9	INSTALL 8" D.I.P. 11¼° BEND	EA.	2
10	INSTALL 6" D.I.P. 11¼° BEND	EA.	2
11	CONST. 60" PREFABRICATED CONCRETE MANHOLE PER STD. B-5 (MODIFIED)	EA.	2
12	CONST. PARSHALL FLUME PER STD. S-21 (MODIFIED) PER DETAIL ON SHT. 11	EA.	1
13	REMOVE AND REPLACE 5" PAVEMENT AND BASE (PER DETAIL ON SHT. 11) (SEE SHT. 2 FOR PLAN)	S.F.	1650
14	REMOVE AND REPLACE 5" PAVEMENT AND BASE (PER DETAIL ON SHT. 11) (SEE SHT. 4,5,6 & 7 FOR PLAN)	S.F.	10,100
15	CONST. TRENCH BACKFILL (PER DETAIL ON SHT. 11)		LOOSE SLY
16	CONST. 6" EPOXY LINED D.I.P. SPIGOT JOINT	L.F.	216
17	CONST. 4" EPOXY LINED D.I.P. SPIGOT JOINT	L.F.	216
18	CONST. 24" SEWER MAIN (VCP OR ABS)	L.F.	181
19	CONST. 4" PVC C-900 (AIR VENT)	L.F.	245

GENERAL NOTES WATER WORKS DIST. No 8 CONSTRUCTION

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE COUNTY OF SAN BERNARDINO WATERWORKS DISTRICT NO. 8 STANDARD PROCEDURES AND REQUIREMENTS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF WATER AND WASTEWATER FACILITIES (CURRENT EDITION AS OF DATE OF PLAN APPROVAL.
2. THE CONTRACTOR SHALL APPLY FOR A CONSTRUCTION PERMIT FROM THE SAN BERNARDINO COUNTY WATERWORKS DISTRICT NO. 8, AND ARRANGE FOR A PRE-CONSTRUCTION CONFERENCE AT LEAST ONE WEEK PRIOR TO BEGINNING CONSTRUCTION.
3. BEFORE WORK IS STARTED THE CONTRACTOR MUST OBTAIN A PERMIT TO EXCAVATE IN PUBLIC STREETS.
4. THE CONTRACTOR SHALL UNCOVER AND VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITY LINES PRIOR TO EXCAVATING. THE CONTRACTOR SHALL MAKE APPROPRIATE ARRANGEMENTS FOR THE PROTECTION OF ALL UTILITIES. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT AT 1-800-422-4133 PRIOR TO BEGINNING WORK.
5. ANY CONTRACTOR PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE HIMSELF WITH THE SITE AND SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY OR INDIRECTLY FROM HIS OPERATIONS, WHETHER OR NOT SUCH FACILITIES ARE SHOWN ON THESE PLANS.
6. THE CONTRACTOR'S ATTENTION IS EXPRESSLY DIRECTED TO ALL THE REQUIREMENTS AND PROVISIONS OF THE STATE OF CALIFORNIA SAFETY REGULATIONS. CONFORMANCE THERE SHALL BE STRICTLY ENFORCED DURING THE ENTIRE LIFE OF THE CONTRACT. AN EXCAVATION PERMIT WILL BE REQUIRED FOR TRENCHES IN EXCESS OF 5.0 FEET IN DEPTH.
7. THE CONTRACTOR SHALL DISPOSE OF ALL SURPLUS EXCAVATION OUTSIDE OF THE PROJECT AREA, OR AS DIRECTED BY THE DISTRICT.
8. COMPACTION TEST SHALL BE REQUIRED FOR ALL TRENCH BACKFILL PER SAN BERNARDINO COUNTY WATERWORKS DISTRICT NO. 8 STANDARDS AND SPECIFICATIONS.
9. THE CONTRACTOR SHALL REPLACE IN KIND, TO THE SATISFACTION OF THE DESIGN ENGINEER AND ANY AGENCY HAVING JURISDICTION THEREOF, ANY PAVING, CURB AND GUTTER OR OTHER IMPROVEMENTS CUT, REMOVED OR DAMAGED IN CONJUNCTION WITH THIS PROJECT.
10. PIPE DELIVERED TO THE SITE SHALL BE PROTECTED BY THE CONTRACTOR FROM DUST OR OTHER CONTAMINATION PRIOR TO PLACING IN TRENCH AND SHALL BE INSTALLED IN ACCORDANCE WITH DISTRICT STANDARDS TO THE SATISFACTION OF THE DISTRICT'S INSPECTOR.
11. THE CONTRACTOR AT THE END OF EACH DAYS WORK SHALL ENSURE THAT ALL OPENINGS INTO THE PIPELINE ARE SECURELY PLUGGED AND STOPPED SO THAT NO ANIMAL, FOWL OR RODENT CAN ENTER THE PIPELINE.
12. PIPE TRENCH SHALL BE EXCAVATED TRUE TO LINE AND GRADE IN ACCORDANCE WITH THE SPECIFICATIONS. ALL BACKFILL SHALL BE PLACED IN A MANNER SATISFACTORY TO THE ENGINEER AND IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. MATERIAL FOR BACKFILL TO TWELVE (12) INCHES ABOVE THE PIPE SHALL BE GRANULAR MATERIAL WITH A MINIMUM SAND EQUIVALENT OF 30.
13. NO PIPELINE SHALL BE INSTALLED ON FILL MATERIAL WITHOUT FIRST MEETING IN-PLACE DENSITY TESTS REQUIRED BY THE COUNTY OF SAN BERNARDINO. COMPACTION IN INTERMEDIATE ZONE SHALL BE COMPACTED TO 90% RELATIVE COMPACTION (MODIFIES SEC. 1.3 OF TECH. SPECS).
14. ALL WORK SHALL BE INSPECTED BY SAN BERNARDINO COUNTY WATERWORKS DISTRICT NO. 8, OR ITS DULY AUTHORIZED AGENT. THE CONTRACTOR SHALL NOT PROCEED WITH ANY SUBSEQUENT PHASE OF WORK UNTIL THE PREVIOUS PHASE HAS BEEN INSPECTED AND APPROVED. INSPECTION SHALL BE MADE OF THE FOLLOWING INTERVALS OF WORK:
    A. TRENCHING, PLACING OF PIPE, VALVES, FITTINGS AND MANHOLES.
    B. BACKFILL AND COMPACTION.
    C. OTHER UNDERGROUND UTILITIES IN PLACE.
    D. LEAKAGE TESTING.
    E. MANHOLES AND VALVE BOXES RAISED TO GRADE AND LINES FLUSHED.
    F. FINAL INSPECTION.
15. THE CONTRACTOR SHALL GIVE AT LEAST 48 HOURS NOTICE WHEN INSPECTIONS OR ENGINEERING JUDGEMENTS BECOME NECESSARY AS SET FORTH IN THE STANDARDS.
16. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER, THE ENGINEER, AND THE DISTRICT AND HIS REPRESENTATIVE, HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
17. ALL TRENCHES SHALL BE EXCAVATED WITH VERTICAL WALLS. TRENCH WIDTH SHALL BE NO GREATER THAN 8 INCHES OUTSIDE THE PIPE O.D. AS SHOWN ON STANDARD DWG 4-3 AND W-9 UNLESS OTHERWISE APPROVED BY THE OWNER.
    EXCAVATION SHALL BE BACKFILLED UPON PLACEMENT OF PIPE OR STRUCTURES NO LATER THAN 24 HOURS AFTER RECEIVING INSPECTION APPROVAL BY GOVERNING AGENCY. WHEN INCLEMENT WEATHER IS FORECAST FOR THE FOLLOWING DAY (10% CHANCE OR BETTER TO RAIN) ALL EXCAVATION SHALL BE BACKFILLED BY THE END OF THAT PRECEDING DAY.
18. SPECIAL SEWER NOTE: CWWD NO 8
    TRACT 14442 MAY BE READY FOR ACTIVE SEWER PRIOR TO COMPLETION OF CHINO AVENUE SEWER. IF THIS IS THE CASE, THE OWNER MUST MAKE THE NECESSARY ARRANGEMENTS FOR MANHOLE NO 1 AT THE JUNCTION OF VILLAGE DRIVE AND DOWNSTREAM POINT TO FLOW INTO MANHOLE NO 1A AS ENVISIONED. WAY - INVERT ELEVATION 850.0A PER DRAWINGS PREPARED BY CROWN & ASSOCIATES. THIS MAY INCLUDE AN INTERIM PUMPING FACILITY APPROVED BY THE DISTRICTS.

SEWER NOTES

1. THE CONTRACTOR MUST OBTAIN APPROVAL FROM THE INSPECTOR BEFORE BACKFILLING ANY SEWER LATERAL.
2. SEWER LATERALS ARE TO BE CONSTRUCTED WITH INVERTS 5.0 FEET BELOW TOP OF CURB GRADE UNLESS OTHERWISE NOTED.
3. ALL LATERALS SHALL BE LAID AT 90° TO MAIN EXCEPT AT CUL-DE-SACS WHERE LATERALS MAY BE LAID AT 45° TO MAIN.
4. IN CURBED STREETS, IDENTIFY SEWER LATERAL WITH A "S" ON CURB FACE.
5. PIPELINE MATERIALS MAY BE EXTRA-STRENGTH VITRIFIED CLAY PIPE OR A.S.T.M. THERM PIPE AS SPECIFIED IN THE STANDARDS.
6. PIPE BEDDING SHALL BE NORMAL BEDDING PER SAN BERNARDINO COUNTY WATERWORKS DISTRICT NO. 8 "STANDARDS FOR WASTEWATER FACILITIES" STANDARD DRAWING NO. S-3, UNLESS OTHERWISE SHOWN ON PLANS.
7. SERVICE LATERALS ARE TO BE LOCATED IN FIELD AT TIME OF CONSTRUCTION BY OWNER OR HIS REPRESENTATIVE. LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE FOR BIDDING PURPOSES ONLY.
8. A WATERTIGHT PLUG SHALL BE INSTALLED AT ALL HOUSE LATERAL ENDS AND AT ALL PIPE ENDS AS SHOWN ON PLANS.
9. NO LOTS SHALL BE CONNECTED TO THE SEWER MAIN UNTIL THAT PORTION OF THE SEWER MAIN TERMINATES IN A CLEANOUT OR MANHOLE CONSTRUCTED PER DISTRICT STANDARDS.
10. LATERALS SHALL EXTEND TO PROPERTY LINE UNLESS SHOWN OTHERWISE ON PLANS.
11. SEWER CONSTRUCTION SHALL START A MINIMUM OF 5.0 FEET FROM ANY EXISTING STUB OR MANHOLE. THE CLOSING SECTION SHALL NOT BE INSTALLED UNTIL ALL MAINS HAVE BEEN CLEANED, TESTED AND TENTATIVELY ACCEPTED BY THE DISTRICT IN WRITING.

NOTE:
DETAILS SHOWN ON SH 8 OF 8 SHALL APPLY TO THAT PORTION OF THE SYSTEM BETWEEN STA 107+18.69 AND STA 37+23.28

GENERAL NOTES - CBWWD CONSTRUCTION

1. ALL WORK SHALL BE DONE IN STRICT CONFORMANCE WITH THE PROJECT SPECIFICATIONS AS APPROVED BY CHINO BASIN MUNICIPAL WATER DISTRICT, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION) AND THE CBWWD STANDARD DETAIL SHEET OF THIS PLAN SET (SHT. 8) AS APPROPRIATE.
2. ANY CONTRACTOR PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE HIMSELF WITH THE SITE AND SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY OR INDIRECTLY FROM HIS OPERATIONS WHETHER OR NOT SHOWN ON THESE PLANS.
3. ALL OBSTRUCTIONS WITHIN THE AREA TO BE IMPROVED ARE TO BE REMOVED OR RELOCATED AT THE DIRECTION OF THE ENGINEER. UTILITIES ARE TO BE RELOCATED BY THEIR RESPECTIVE OWNERS. THE CONTRACTOR IS REFERRED TO SECTION 5 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
4. UTILITY LINE LOCATIONS WERE TAKEN FROM RECORD AND WERE NOT LOCATED IN THE FIELD UNLESS OTHERWISE NOTED ON THE PLAN. THE CONTRACTOR IS REFERRED TO SECTION 5 OF THE STANDARD SPECIFICATIONS.
5. IN CASE OF ANY ACCIDENTS INVOLVING SAFETY MATTERS COVERED BY SECTION 6424 OF THE CALIFORNIA LABOR CODE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE STATE DIVISION OF INDUSTRIAL SAFETY.
6. CALL UNDERGROUND SERVICE ALERT FOR UNDERGROUND LOCATIONS 72 HOURS BEFORE DIG (800-422-4133).
7. THE CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT 48-HRS PRIOR TO TIME OF CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR IS REFERRED TO SECTION 7-10.3 OF THE STANDARD SPECS.
8. THE CONTRACTOR SHALL RENEW OR REPLACE ANY EXISTING TRAFFIC STRIPING AND/OR PAVEMENT MARKINGS WHICH DURING HIS OPERATIONS HAVE BEEN EITHER REMOVED OR THE EFFECTIVENESS OF WHICH HAS BEEN REDUCED. RENEWAL OF PAVEMENT STRIPING AND MARKINGS SHALL BE DONE IN CONFORMANCE WITH SECTION 310-5.6 OF THE STANDARD SPECIFICATIONS.
9. ALL SEWER MAINS SHALL BE BELL AND SPIGOT EXTRA-STRENGTH VITRIFIED CLAY PIPE (V.C.P.) UNLESS OTHERWISE NOTED ON THE PLAN.
10. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING SEWER MAIN(S) AND NOTIFY THE DESIGN ENGINEER OF ANY VARIATION FROM DESIGN.
11. CONSTRUCTION SHALL NOT BEGIN ON FACILITIES TO BE OWNED BY CBWWD UNTIL AFTER THE ISSUANCE OF A PERMIT BY CBWWD TO ALLOW THE CONSTRUCTION AND ALSO AFTER A PRE-CONSTRUCTION CONFERENCE TO BE HELD AT LEAST ONE WEEK PRIOR TO BEGINNING CONSTRUCTION. IN ADDITION, CBWWD SHALL BE NOTIFIED A MINIMUM OF 48-HRS. PRIOR TO ANY CONSTRUCTION IN THE VICINITY OF THE TRUNK SEWER OR ANY FACILITIES OWNED BY CBWWD.
12. ALL TRENCHING AND/OR SHORING SHALL MEET REQUIREMENTS OF CAL-OSHA.
13. THE CONTRACTOR SHALL SUBMIT COPIES OF HIS DEPARTMENT OF INDUSTRIAL SAFETY PERMIT TO CBWWD AND TO CITY OF CHINO AND SAN BERNARDINO COUNTY.
14. SHOP DRAWINGS AS REQUIRED BY THE PERMIT SHALL BE APPROVED BY CBWWD PRIOR TO BEGINNING OF THE INSTALLATION OF THE FLUME.

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800
422-4133
TWO WORKING DAYS BEFORE YOU DIG

NBS / LOWRY
ENGINEERS ● PLANNERS
RECORD DRAWINGS
Information Obtained From
_____ Client's Records
_____ NBS/L Records
_____ Contractor's Records
By _____ Date 10-9-91

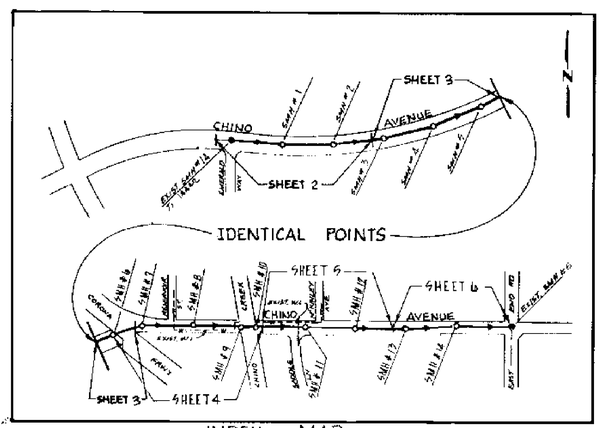
NOTICE TO CONTRACTORS:

The existence and location of any underground utility pipes or structures shown on this plan are obtained by a search of available records. To the best of our knowledge there are no existing utilities except as shown on these plans. The contractor is required to take due precautionary measures to protect the utility lines shown and any other lines or structures not of record or not shown on these drawings. It shall be the contractor's responsibility to notify the owners of the utilities or structures concerned before starting work. The contractor, further assumes all liability and responsibility for the underground utility pipes, conduits, and structures shown or not shown on these drawings.

All contractors and subcontractors performing work shown on or related to these plans shall conduct their operations so that all employees are provided a safe place to work and the public is protected. All contractors and subcontractors shall comply with the "Occupational Safety and Health Regulation" of the U.S. Department of Labor, and with the State of California Department of Industrial Relations' "Construction Safety Orders."

The civil engineer shall not be responsible in any way for the contractors' and subcontractors' compliance with the "Occupational Safety and Health Regulations" of the U.S. Department of Labor or with the State of California Department of Industrial Relations' "Construction Safety Orders."

Contractor further agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the contractor shall defend, indemnify and hold the owner and the engineer harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting for liability arising from the sole negligence of the owner or the engineer.



INDEX MAP
SCALE: 1"=500'

BASIS OF BEARING:
BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF PEYTON DRIVE BEING N 60°13'11"W PER TRACT 12581-1, M.B. 177/9-18, RECORDS OF SAN BERNARDINO, CALIFORNIA

BENCH MARK:
CAL TRANS BENCH MARK 3-5B-77-5B PER F.B. 07-LA-071-B PAGE 1-D CHISELED SQUARE IN N.W. EDGE OF HEADWALL 330' SOUTHERLY OF COUNTY LINE, 50' WEST OF CENTERLINE CONST. HIGHWAY 71. ELEVATION = 777.13

Daly & Associates
CIVIL ENGINEERS
1932 E. DEERE AVE.
SUITE 100
SANTA ANA, CA. 92705
(714) 261-9560

James E. Cook 13557 11-9-90
R.C.E. NO. DATE
DESIGNED ____ DRAWN ____
CHECKED ____ SCALE AS SHOWN

PLANS PREPARED FOR
BRAMALEA CALIFORNIA INC.
ONE PARK PLAZA, SUITE 1100
IRVINE, CA. 92714
(714) 851-3131

NO.	DATE	APPR.	REVISIONS

DRAWN ____ DESIGNED ____ CHECKED ____

SAN BERNARDINO
COUNTY WATERWORKS DISTRICT NO. 8
DISTRICT MANAGER ____ DATE 12/1/90
DISTRICT ENGINEER R.C.E. 17900 DATE 12-13-90

PARCEL MAP NO. 10048
TRACT 14442

GENERAL NOTES, CONSTRUCTION NOTES AND ESTIMATE OF QUANTITIES
CHINO AVE. SEWER

CHINO HILLS MANAGERS OFFICE
APPROVED BY ____ DATE ____

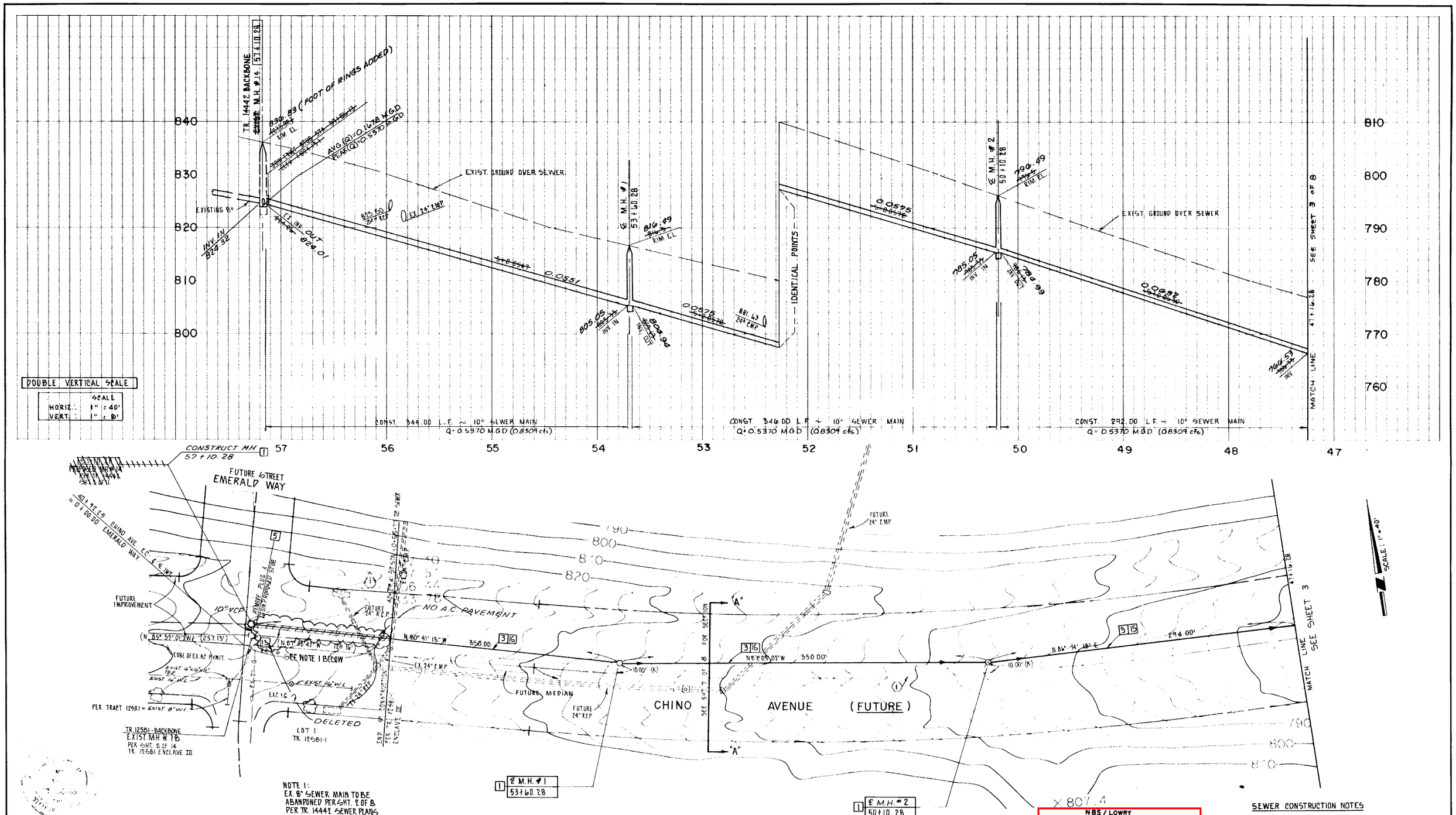
CHINO BASIN MUNICIPAL WATER DISTRICT
APPROVED BY: ____ 12/13/90
OFFICE ENGINEER DATE

CITY OF CHINO ENGINEERING DIVISION
APPROVED BY ____ CHECKED BY: HN 12.05.90
DEPUTY CITY ENGINEER RCE 24039 DATE 12/7/90

REGISTERED PROFESSIONAL ENGINEER JAMES T. POSEY NO. 13557 EXP. 3-31-93 CIVIL STATE OF CALIFORNIA

W.O. NO. 579
FILE NO.
SHEET 1 OF 8

CAD 42. D-4582-1



NOTE 1:
EX. 8" SEWER MAIN TO BE ABANDONED PER SHT. 2 OF 8 PER TR. 14442 SEWER PLANS

STREET & CURVE DATA

NO	Δ	R	L	T
(1)	33° 07' 18"	3000'	1734.25'	892.11'

SEWER CONSTRUCTION NOTES

1 — CONST. 48" PRECAST CONCRETE MANHOLE PER STD. S-5
3 — CONST. 10" SEWER MAIN
5 — REMOVE EXISTING PLUG AND JOIN.
13 — REMOVE & REPLACE 5" PAVEMENT & BASE PER DETAIL ON SHT. 7
15 — CONST. TRENCH BACKFILL PER DETAIL ON SHT. 7

NBS / LOWRY
ENGINEERS • PLANNERS
RECORD DRAWINGS
Information Obtained From
_____ Client's Records
_____ NBS/L Records
_____ Contractor's Records
By _____ Date 10-9-91

Crosby & Associates
Civil Engineers
1932 E. DEERE AVE.
SUITE 100
SANTA ANA, CA. 92705
(714) 261-9560

BENCHMARK:
CALTRANS BENCHMARK 3-58-77-58 PER F.B. 07-LA-071-B PAGE 1-B CHISELED SQUARE IN N.W. EDGE OF HEADWALL 330' SOUTHERLY OF COUNTY LINE, 50' WEST OF CENTERLINE CONST. HIGHWAY 71
ELEV. 777.13

James E. Crosby 13557 11-9-90
R.C.E. NO. DATE
DESIGNED
DRAWN
CHECKED
SCALE AS SHOWN

PLANS PREPARED FOR
BRAMALEA CALIFORNIA INC.
ONE PARK PLAZA, SUITE 1100
IRVINE, CA. 92714
(714) 851-3131

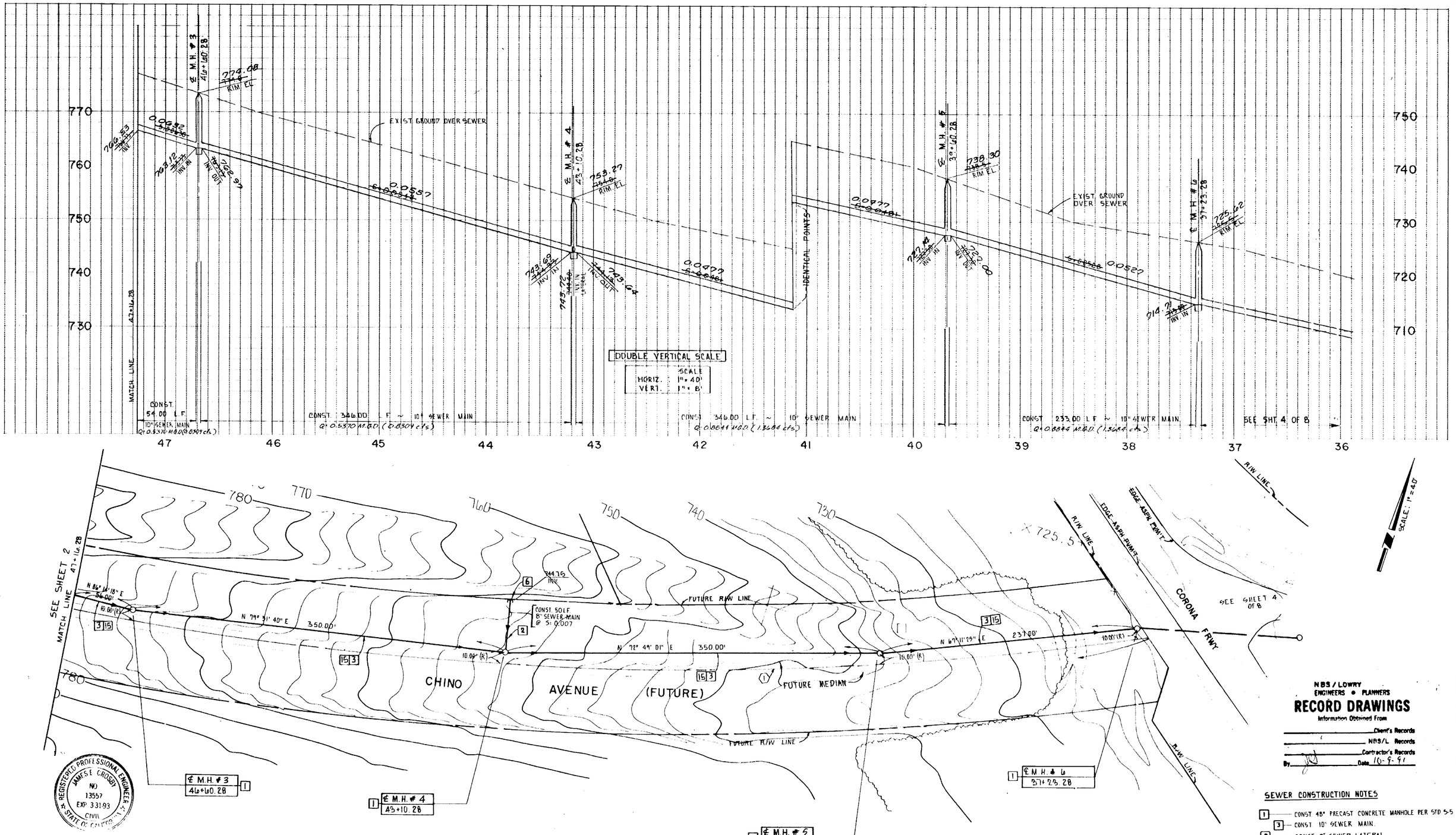
NO.	DATE	APP.	REVISIONS
DRAWN		DESIGNED	CHECKED

SAN BERNARDINO
COUNTY WATERWORKS DISTRICT NO. 8
APPROVED BY:
DISTRICT MANAGER — DATE 12/21/90
DISTRICT ENGINEER RCE 11900 — DATE 12-19-90

PARCEL MAP NO. 10048
TRACT 14442
CHINO AVE. SEWER

W.O. NO. 575
FILE NO.
SHEET 2 OF 8

CAD-4/2 D-4582-2



NBS / LOWRY
ENGINEERS • PLANNERS

RECORD DRAWINGS

Information Obtained From
Client's Records
NBS/L Records
Contractor's Records
By _____ Date 10-9-91

SEWER CONSTRUCTION NOTES

1 — CONST 48" PRECAST CONCRETE MANHOLE PER STD 5-5
3 — CONST 10" SEWER MAIN.
2 — CONST 8" SEWER LATERAL
6 — INSTALL 8" PLUG
15 — CONST. TRENCH BACKFILL PER DETAIL ON SHT. 7

STREET & CURVE DATA

NO.	Δ	R	L	T
1	33° 07' 18"	3000'	1734.25'	892.11'

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Crosby & Associates
Civil Engineers
1932 E. DEERE AVE.
SUITE 100
SANTA ANA, CA. 92705
(714) 261-9560

James E. Crosby 13557 11-9-90
R.C.E. NO. DATE

DESIGNED R.H.D. DRAWN
CHECKED E.H. SCALE AS SHOWN

PLANS PREPARED FOR
BRAMALEA CALIFORNIA INC.
ONE PARK PLAZA, SUITE 1100
IRVINE, CA. 92714
(714) 851-3131

NO.	DATE	APP.	REVISIONS

DRAWN DESIGNED CHECKED

SAN BERNARDINO
COUNTY WATERWORKS DISTRICT NO. 8

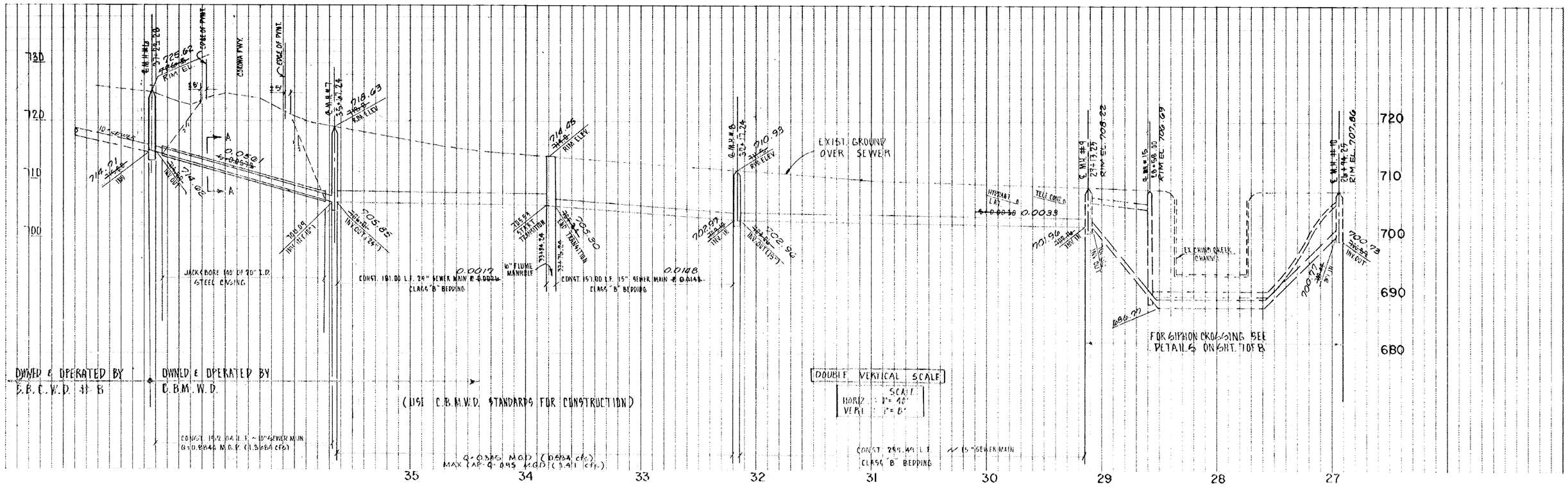
APPROVED BY:
DISTRICT MANAGER — DATE 12/21/90
DISTRICT ENGINEER RCE 11900 — DATE 12-17-90

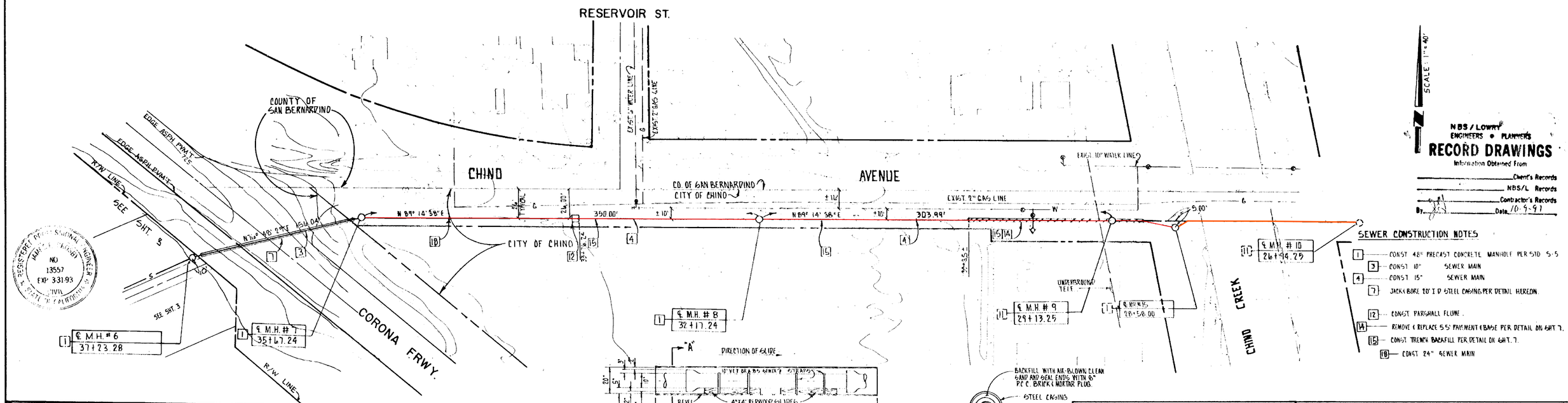
PARCEL MAP NO. 10048
TRACT 14442

CHINO AVE. SEWER

W.O. NO. 575
FILE NO.
SHEET 3 OF 8

CAD 42 D-4582-3





BENCHMARK:
CALTRANS BENCHMARK 3-58-77-58 PER F.B. 07-LA-071-B PAGE 1-B CHISELED SQUARE IN N.W. EDGE OF HEADWALL 330' SOUTHERLY OF COUNTY LINE, 50' WEST OF CENTERLINE CONST. HIGHWAY 71. ELEV. 777.13

Gosdl Associates
Civil Engineers
1932 E. DEERE AVE.
SUITE 100
SANTA ANA, CA. 92705
(714) 261-9560

James E. Crosby 13557 11-9-90
R.C.E. NO. DATE
DESIGNED
DRAWN
CHECKED
SCALE AS SHOWN

PLANS PREPARED FOR
BRAMALEA CALIFORNIA INC.
ONE PARK PLAZA, SUITE 1100
IRVINE, CA. 92714
(714) 851-3131

NO.	DATE	APP.	REVISIONS

DRAWN | DESIGNED | CHECKED

SAN BERNARDINO
COUNTY WATERWORKS DISTRICT NO. 8
APPROVED BY:
DISTRICT MANAGER — DATE 12/21/90
DISTRICT ENGINEER RCE 11900 — DATE 12-19-90

CHINO BASIN MUNICIPAL WATER DISTRICT
APPROVED BY:
OFFICE ENGINEER — DATE 12/3/90

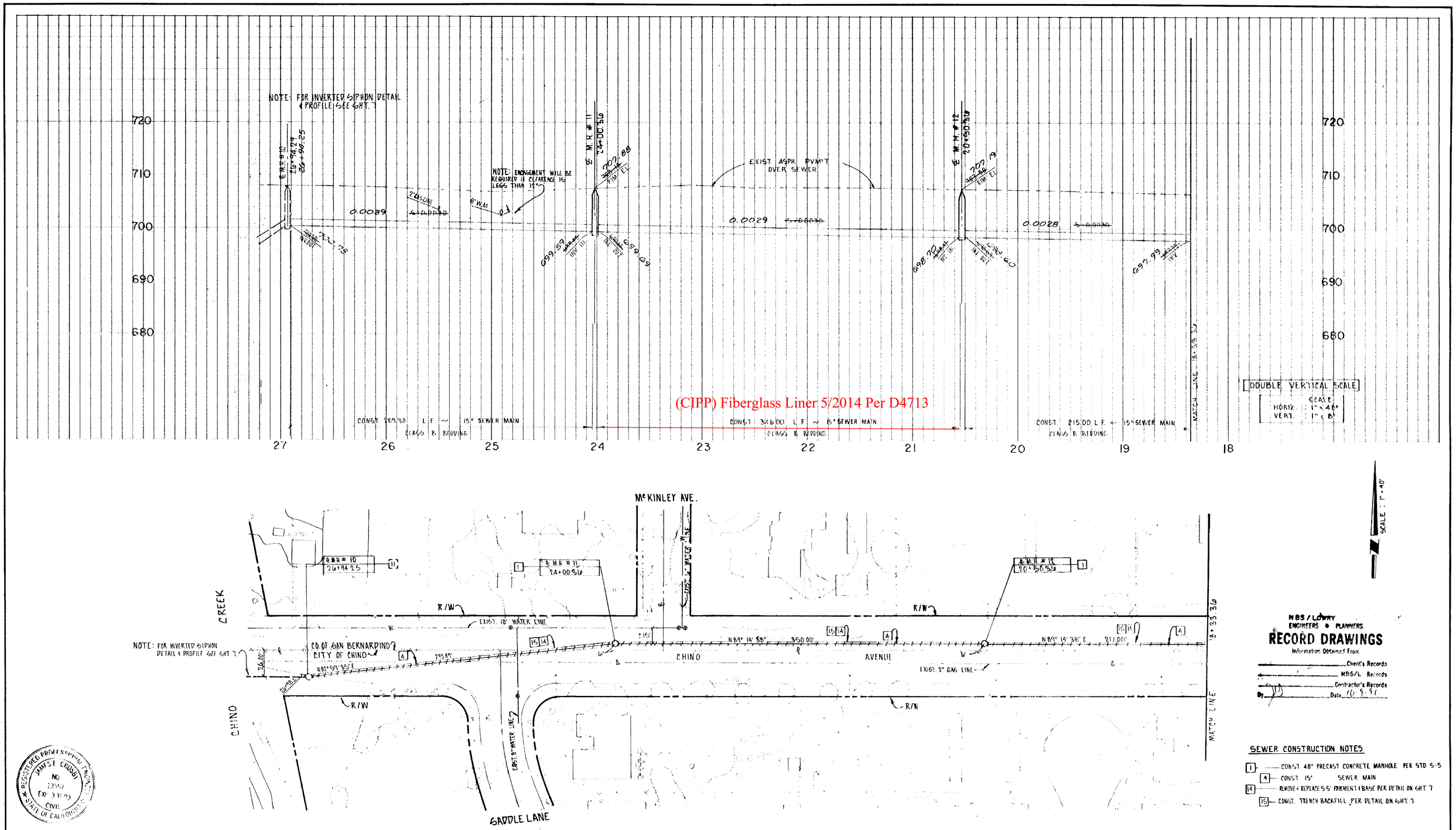
CITY OF CHINO ENGINEERING DIVISION
APPROVED BY
CHECKED BY: HN 12.05.90
Joseph D. Schenk
DEPUTY CITY ENGINEER RE 24030
DATE 12/17/90

PARCEL MAP NO. 10048
TRACT 14442

CHINO AVE. SEWER
CONN NO. SB-2

W.O. NO. 579
FILE NO.
SHEET 4 OF 8

D-4582-4



Crosby & Associates Civil Engineers
1932 E. DEERE AVE.
SUITE 100
SANTA ANA, CA. 92705
(714) 261-9560

BENCHMARK:
CALTRANS BENCHMARK 3-58-77-58 PER F.B. 07-LA-071-B PAGE 1-B CHISELED SQUARE IN N.W. EDGE OF HEADWALL 330' SOUTHERLY OF COUNTY LINE, 50' WEST OF CENTERLINE CONST. HIGHWAY 71. ELEV. 777.13

CHINO BASIN MUNICIPAL WATER DISTRICT	CITY OF CHINO ENGINEERING DIVISION
APPROVED BY: OFFICE ENGINEER — DATE 12/5/90	APPROVED BY: DEPUTY CITY ENGINEER RCE 24039 — DATE 12/17/90
	CHECKED BY: HN 12.05.90

James E. Crosby 13557 R.C.E. NO. — DATE 11-9-90
DESIGNED — DRAWN
CHECKED — SCALE AS SHOWN

PLANS PREPARED FOR
BRAMALEA CALIFORNIA INC.
ONE PARK PLAZA, SUITE 1100
IRVINE, CA. 92714
(714) 851-3131

NO.	DATE	APP	REVISIONS
DRAWN		DESIGNED	CHECKED

SAN BERNARDINO
COUNTY WATERWORKS DISTRICT NO. 8
APPROVED BY:
DISTRICT MANAGER — DATE 12/21/90
DISTRICT ENGINEER RCE 11900 — DATE 12-19-90

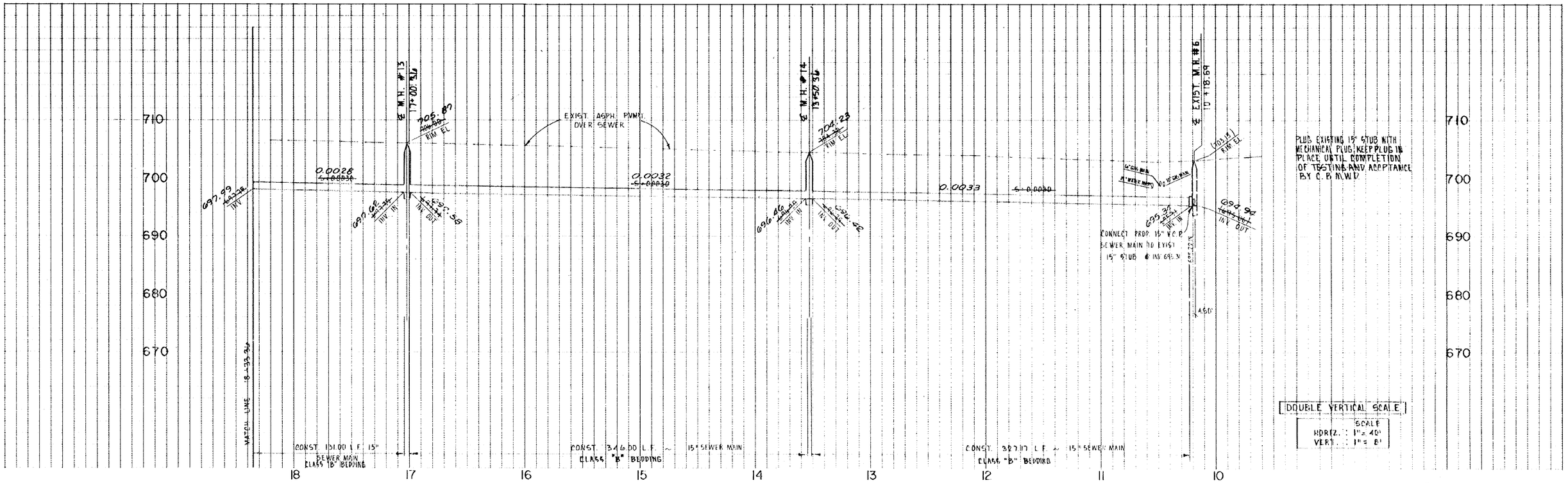
PARCEL MAP NO. 10048
TRACT 14442

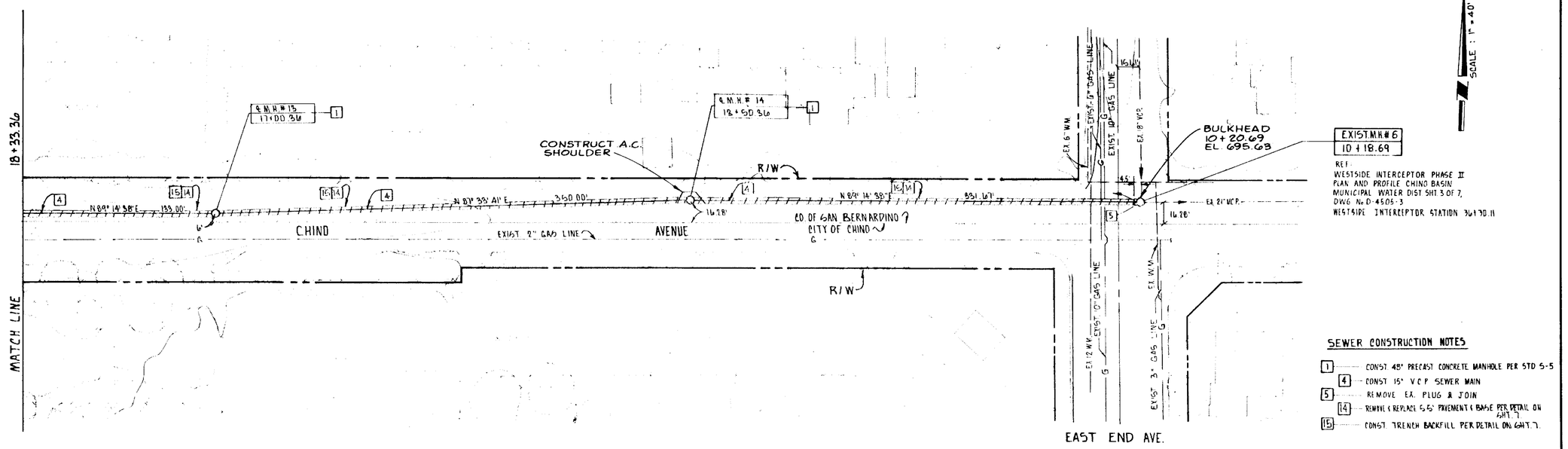
CHINO AVE. SEWER

CONN. NO. 6B-2

W.O. NO. 575
FILE NO.
SHEET 5 OF 8

CAD42D-4582-5





SEWER CONSTRUCTION NOTES

1 — CONST. 48" PRECAST CONCRETE MANHOLE PER STD S-5

4 — CONST. 15" V.C.P. SEWER MAIN

5 — REMOVE EX. PLUG & JOIN

14 — REMOVE & REPLACE 5.5' PAVEMENT & BASE PER DETAIL ON SHT. 7

15 — CONST. TRENCH BACKFILL PER DETAIL ON SHT. 7.

RECORD DRAWINGS
NBS/LOWRY
ENGINEERS • PLANNERS
Contractor's Records
NBS/LW Records
Contractor's Records
Date 11-9-01

STATE OF CALIFORNIA — CIVIL ENGINEER — JAMES E. CROSBY — No. 13557 — EXP. 3-31-93

Crosby & Associates
Civil Engineers
1932 E. DEERE AVE.
SUITE 100
SANTA ANA, CA. 92705
(714) 261-9560

BENCHMARK:
CALTRANS BENCHMARK 3-58-77-58 PER F.B. 07-LA-071-B PAGE 1-B CHISELED SQUARE IN NW. EDGE OF HEADWALL 330' SOUTHERLY OF COUNTY LINE, 50' WEST OF CENTERLINE CONST. HIGHWAY 71. ELEV. 777.13

CHINO BASIN MUNICIPAL WATER DISTRICT
APPROVED BY: 12/3/90
OFFICE ENGINEER — DATE

CITY OF CHINO ENGINEERING DIVISION
APPROVED BY: Joseph D. Schenk
DEPUTY CITY ENGINEER RCE 24039
CHECKED BY : HN 12.05.90
DATE 12/17/90

James E. Crosby 13557 11-9-90
R.C.E. NO. — DATE
DESIGNED — DRAWN
CHECKED — SCALE AS SHOWN

PLANS PREPARED FOR
BRAMALEA CALIFORNIA INC.
ONE PARK PLAZA, SUITE 1100
IRVENE, CA 92714
(714) 851-3131

NO	DATE	APP	REVISIONS
DRAWN		DESIGNED	CHECKED

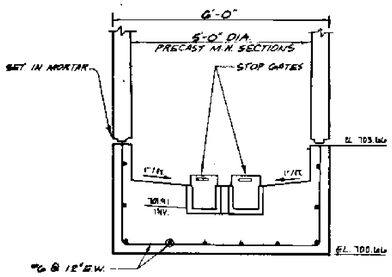
SAN BERNARDINO
COUNTY WATERWORKS DISTRICT NO. 8
APPROVED BY:
DISTRICT MANAGER — 12/21/90 DATE
R.R. Ruermann RCE 11900
DISTRICT ENGINEER — 12-19-90 DATE

PARCEL MAP NO. 10048
TRACT 14442

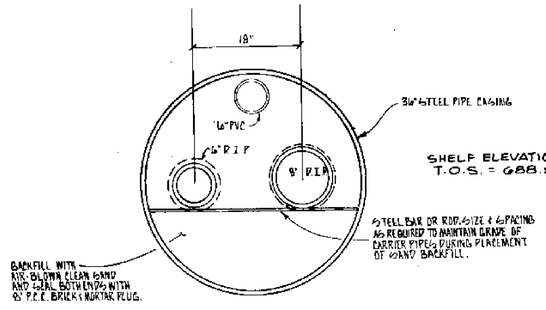
CHINO AVE. SEWER
CONN NO. 5B-2

W.O. NO. 575
FILE NO.
SHEET 6 OF 8

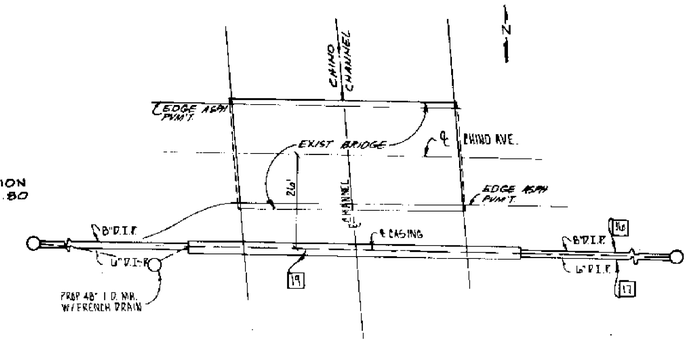
CAD 42
D-4582-6



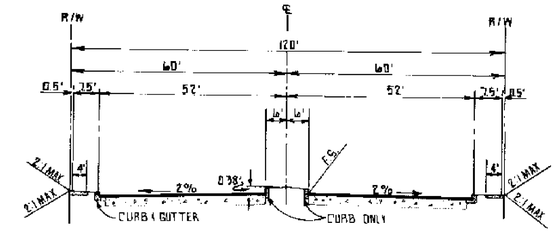
SECTION
NO SCALE



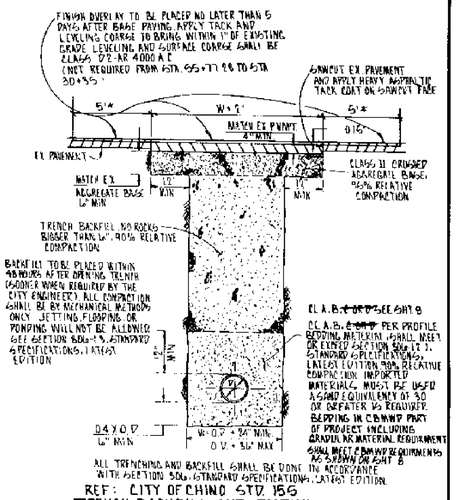
SECTION A-A
SCALE: 1" = 1'



PLAN
SIPHON CROSSING
SCALE: 1" = 20'



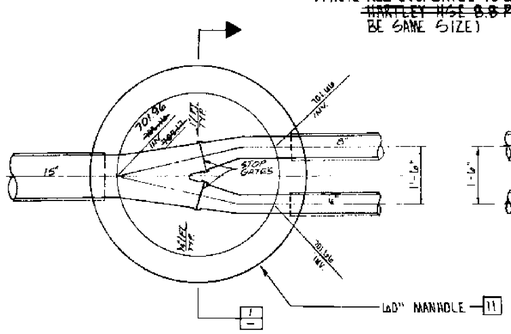
TYPICAL SECTION "A-A"
N.T.S
CHINO AVENUE (W. OF CORONA FWY.)



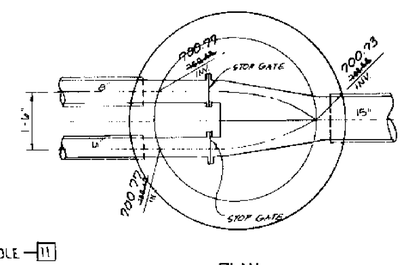
REF: CITY OF CHINO STD. 156
TRENCH BACKFILL AND ROADWAY REPAIR
N.T.S.

* EXISTING ASPHALT CONCRETE PAVEMENT SHALL BE PLANED A MIN. 0.1' DEEP OR AS REQUIRED BY THE INSPECTOR. CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE CITY OF CHINO'S SPECIFICATIONS FOR COLD PLANING ASPHALT CONCRETE

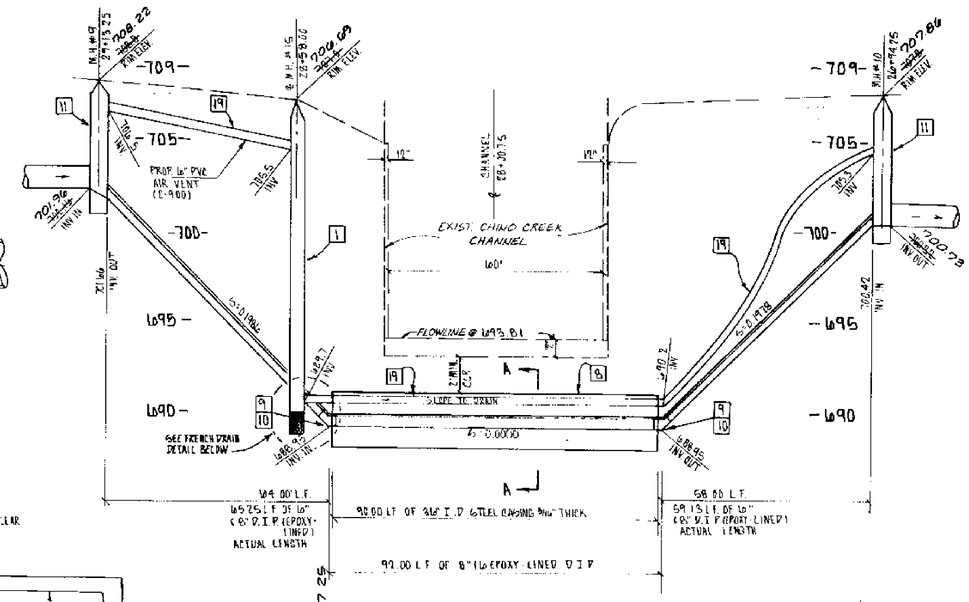
* NOTE: ALL STOPGATES TO BE ~~ASHBROOK SIMON HARTLEY NSE B.B.P.~~ (ALL GATES SHALL BE SAME SIZE)
PLASTI - FAB



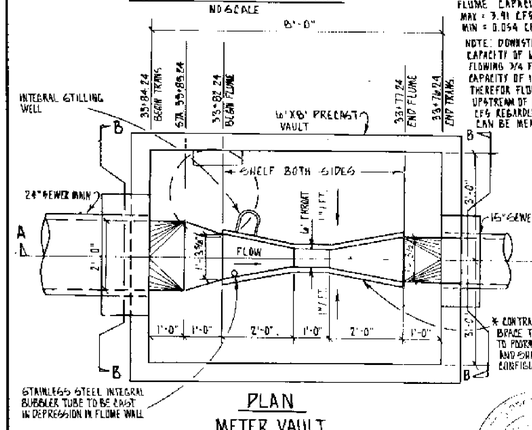
PLAN
15" INLET STRUCTURE
NO SCALE



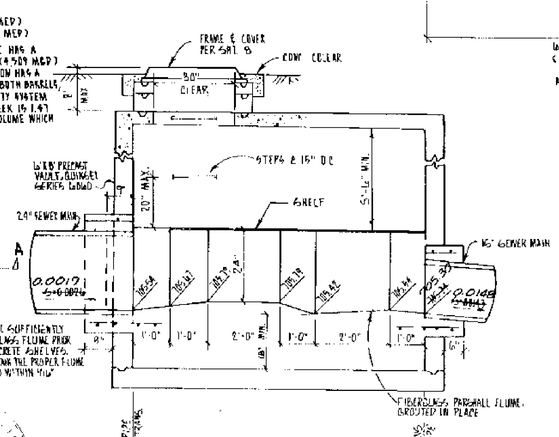
PLAN
15" OUTLET STRUCTURE
NO SCALE



PROFILE
SIPHON CROSSING
SCALE: HORIZ. 1" = 20' VERT. 1" = 4'



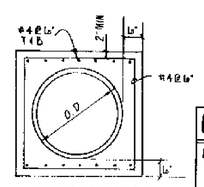
PLAN
METER VAULT



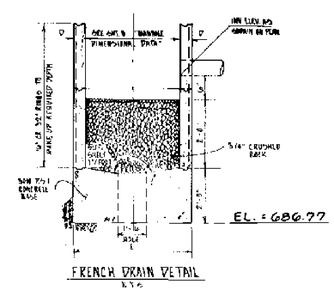
SECTION "A-A"

* CONTRACTOR SHALL SUFFICIENTLY BRACE THE FIBERGLASS FLUME PRIOR TO POURING THE CONCRETE SHELVES, AND SHALL MAINTAIN THE PROPER FLUME CONFIGURATION TO WITHIN 1/16"

* DEVIATIONS IN EITHER PLAN OR ELEVATION WILL RESULT IN REJECTION OF THE CONSTRUCTION.



SECTION "B-B"



FRENCH DRAIN DETAIL
N.T.S.

NBS / LOWRY
ENGINEERS • PLANNERS
RECORD DRAWINGS
Information Obtained From
Client's Records
NBS/L Records
Contractor's Records
By: Date: 10-9-91

1 — CONST. 48" PRECAST CONCRETE MANHOLE PER STD. 6-5
19 — CONST. 6" PVC C-900 (AIR VENT)
10 — CONST. 8" EPOXY - LINED D.I.P. FASTITE JOINT
11 — CONST. 16" EPOXY - LINED D.I.P. FASTITE JOINT
8 — JACK & BORE 36" I.D. STEEL CASING
9 — INSTALL 8" D.I.P. 11¼° BEND
10 — INSTALL 16" D.I.P. 11¼° BEND.
11 — CONST. 60" PRECAST CONCRETE MANHOLE PER STD. 6-5 (MODIFIED).

CONSTRUCTION NOTES

CHINO BASIN MUNICIPAL WATER DISTRICT
APPROVED BY: OFFICE ENGINEER — DATE 12/3/90

CITY OF CHINO ENGINEERING DIVISION
APPROVED BY: DEPUTY CITY ENGINEER RCE 26039 — DATE 12/17/90
CHECKED BY: HN 12.05.90

Crosby & Associates
1932 E. DEERE AVE.
SUITE 100
SANTA ANA, CA.
TELEPHONE: (714) 261-9560

James E. Crosby 13552 — R.C.E. NO. — DATE 11-9-90
DESIGNED RHD — DRAWN
CHECKED S.G. — SCALE AS SHOWN

PLANS PREPARED FOR
BRAMALEA CALIFORNIA INC.
ONE PARK PLAZA, SUITE 1100
IRVINE, CA. 92714
(714) 851-3131

NO.	DATE	APP.	REVISIONS
DRAWN		DESIGNED	CHECKED

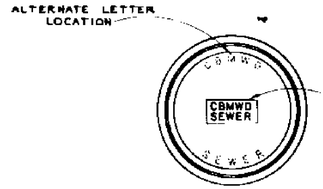
SAN BERNARDINO
COUNTY WATERWORKS DISTRICT NO. 8
APPROVED BY:
DISTRICT MANAGER — DATE 12/21/90
DISTRICT ENGINEER RCE 11900 — DATE 12-19-90

PARCEL MAP NO. 10048
TRACT 14442

CHINO AVE.
SEWER IMPROVEMENT DETAILS
CONN. NO. 6B-2

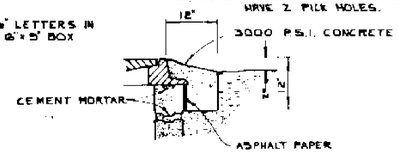
W.O. NO. 577
FILE NO.
SHEET 7 OF 8

CAD 42 D-4582-7

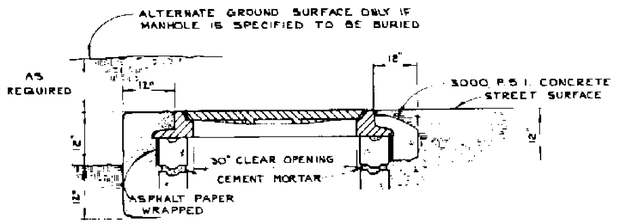


TOP VIEW
COVER DETAIL

NOTE:
MANHOLE FRAME COVER SHALL BE ALHAMBRA FOUNDRY TYPE A-1252 OR LONG BEACH IRON WORKS TYPE K-10G B OR APPROVED EQUAL. FRAME AND COVER SHALL BE BITUMINOUS COATED AND WEIGH A MIN. OF 640 LBS. THE COVER SHALL HAVE 2 PICK HOLES.



ROAD WAY SHOULDER



OPEN FIELD

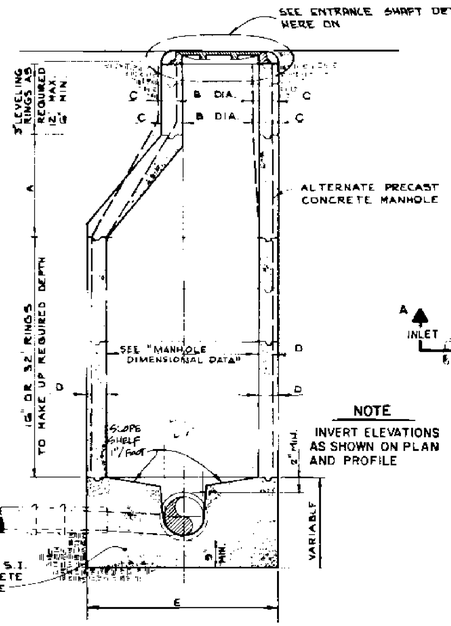
ROAD WAY

ENTRANCE SHAFT DETAILS
NO SCALE

MANHOLE DIAMETER	TYPE	A	B**	C	D	E	PIPE DIAMETER
48"	REINFORCED	36"	30"	5"	4 1/2"	5'-0"	PIPE DIAMETERS 30 & 21"
48"	REINFORCED	36"	30"	6"	6"	5'-0"	* 24" *
60"	REINFORCED	36"	30"	6"	6"	6'-0"	PIPE DIAMETERS 27" TO 39"
60"	REINFORCED	36"	30"	6"	6"	6'-0"	* 42" *
72"	REINFORCED	36"	30"	6"	6"	7'-0"	PIPE DIAMETERS 45" & GREATER

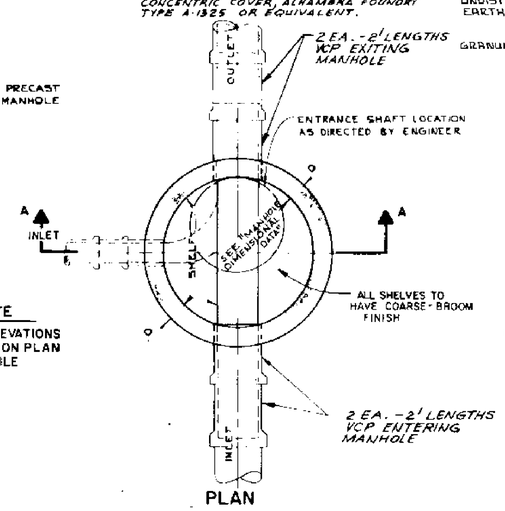
MANHOLE DIMENSIONAL DATA

* IF CONNECTIONS AND TEES ARE REQUIRED, USE NEXT HIGHER DIAMETER MANHOLE.
** WHERE 30" OPENING IS NOT POSSIBLE, USE CONCENTRIC COVER, ALHAMBRA FOUNDRY TYPE A-1325 OR EQUIVALENT.



SECTION A-A

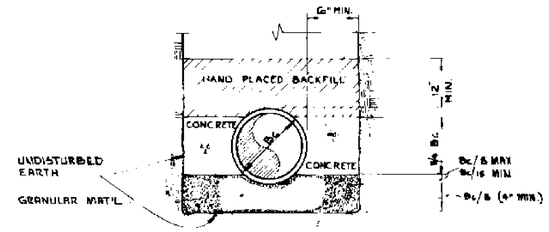
NOTE
INVERT ELEVATIONS AS SHOWN ON PLAN AND PROFILE



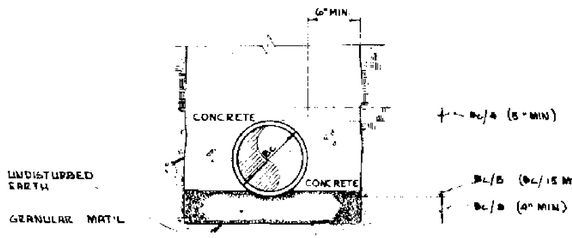
PLAN

NOTE
PRECAST MANHOLE SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M. C478 AND BE DESIGNED FOR AASHTO H20 LOADING.

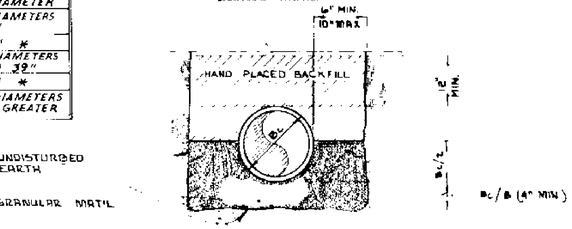
STANDARD SEWER MANHOLE W/ECCENTRIC CONE
NO SCALE



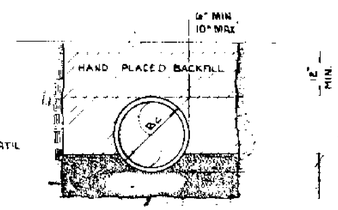
CLASS A-III



CLASS A-IV



CLASS B

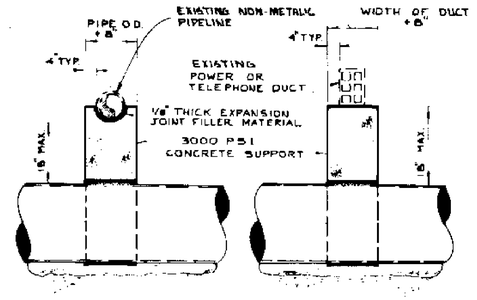


CLASS C
NOT APPLICABLE IN CITY OF CHINO

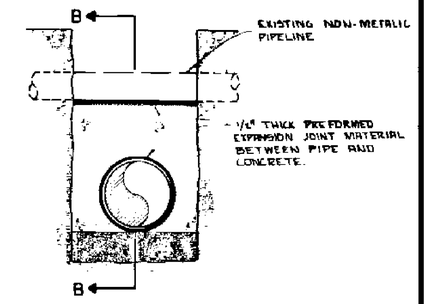
BEDDING DETAIL NOTES

TRENCH SHORING & TRENCH WALL SLOPING SHALL BE IN CONFORMANCE WITH STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL SAFETY REQUIREMENTS AND THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS.

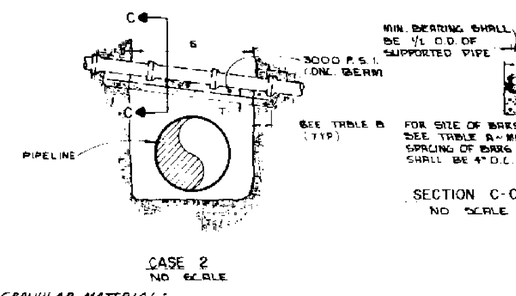
BEDDING DETAILS
NO SCALE



SECTION B-B
NO SCALE



CASE 1
NO SCALE



SECTION C-C
NO SCALE

CASE 2
NO SCALE

TABLE A

S	DEPTH OF COVER 0'-6'-0" T	BAR	6'-1"-16'-0" T	BAR	16'-1"-25'-0" T	BAR
4	8"	4	8"	4	9 1/2"	5
5	8"	4	9"	5	11"	5
6	8 1/2"	5	10 1/2"	5	12 1/2"	6
7	9"	5	11 1/2"	6	13 1/2"	6
8	10"	5	12 1/2"	6	15"	7
9	11"	6	13 1/2"	6	16 1/2"	7
10	12"	6	15"	7	18"	7
11	13"	6	16"	7	19 1/2"	8
12	13 1/2"	6	17"	7	21"	8
13	14 1/2"	7	18 1/2"	7	-	-
14	15 1/2"	7	20"	8	-	-
15	16 1/2"	7	21"	8	-	-
16	17 1/2"	7	-	-	-	-
17	18 1/2"	8	-	-	-	-
18	19 1/2"	8	-	-	-	-

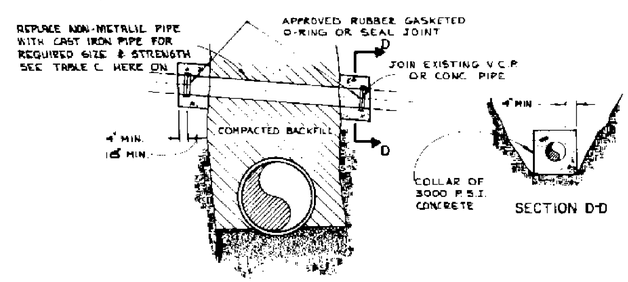
TABLE B

DEPTH OF COVER	B	MIN. BEAR.
0'-6'-0"	0'-18'-0"	18"
8'-1"-16'-0"	0'-12'-0"	18"
	12'-1"-15'-0"	24"
16'-1"-25'-0"	0'-7'-0"	18"
	7'-1"-10'-0"	24"
	10'-1"-12'-0"	30"

TABLE C

DEPTH OF COVER	CLASS 150 PIPE INSIDE DIAMETER 6"	8"	10"	CLASS 200 PIPE INSIDE DIAMETER 6"	8"	10"
0'-8'	8'-6"	11'-0"	13'-0"	8'-6"	11'-0"	13'-0"
8'-1"-16'	8'-6"	8'-0"	10'-0"	8'-6"	8'-6"	10'-8"
16'-1"-25'	5'-0"	6'-0"	8'-0"	5'-0"	6'-6"	8'-6"

GRANULAR MATERIAL:
GRANULAR MATERIAL SHALL BE IMPORTED CRUSHED STONE CONFORMING TO ASTM D448*67, HAVING THE FOLLOWING GRADUATION:
100 PERCENT PASSING 1 IN. SIEVE;
90-100 PERCENT PASSING 3/4 IN. SIEVE;
20-50 PERCENT PASSING 3/8 IN. SIEVE;
0-10 PERCENT PASSING #4 SIEVE;
0-5 PERCENT PASSING #8 SIEVE.
SLAG, PEA GRAVEL OR OTHER ALTERNATIVE MATERIALS WILL NOT BE ACCEPTABLE IN LIEU OF CRUSHED STONE.



CASE 3
NO SCALE

PIPE SUPPORT DETAILS
NO SCALE

1. ALL CROSSING HOUSE LATERALS 10" AND SMALLER SHALL BE SUPPORTED BY USE OF CASE 3 PIPE SUPPORT DETAIL.
2. ALL NON-METALIC CROSSING PIPELINE AND CONDUITS WITH 18" OR LESS CLEARENCE, EXCEPT THOSE COVERED BY NOTE 1 ABOVE, SHALL BE SUPPORTED BY CASE 1 PIPE SUPPORT DETAIL.
3. ALL NON-METALIC CROSSING PIPELINE AND CONDUITS NOT COVERED BY THE ABOVE NOTES 1 OR 2, SHALL BE SUPPORTED BY USE OF CASE 2 PIPE SUPPORT DETAIL.
4. BACKFILL SHALL BE BROUGHT UP UNIFORMILY ALONG BOTH SIDES OF THE PROTECTED PIPE AND SUPPORT SO AS TO INSURE NO UNBALANCED LOADS.
5. CROSSING METALIC CONDUITS 3 INCHES NOMINAL SIZE AND LARGER SHALL BE BACKFILLED TO 2'0" BELOW THE CROSSING CONDUIT WITH CLASS 2 AGGREGATE BASE. MATERIALS AND INSTALLATION SHALL BE PER CALIFORNIA DEPARTMENT OF TRANS. "STANDARD SPECIFICATIONS," SECTION 26 JAN. 1978 EDITION. THE TRENCH SHALL THEN BE BACKFILLED TO 12 INCHES OVER THE CONDUIT WITH CLEAN, MOISTENED SAND. SAND EQUIVALENT OVER 30, BROUGHT UP IN LAYERS OF NOT OVER 6 INCHES AND MECHANICALLY COMPACTED TO A RELATIVE DENSITY OF AT LEAST 90% WITH SPECIAL ATTENTION BEING GIVEN TO THE PIPE BOTTOM AND HAUNCH AREAS OF THE BACKFILL.

NBS / LOWRY
ENGINEERS • PLANNERS
RECORD DRAWINGS
Information Obtained From
Client's Records
NBS/L Records
Contractor's Records
By ____ Date 10-9-91

REV.	DATE	BY	DESCRIPTION

SUBMITTED James E. Crosby 13557 11-9-90
Project Engineer R.E. No. Date
APPROVED [illegible] 1054 10-9-90
OFFICE ENGINEER R.E. No. Date

SCALE NONE

Designed PARKER 4-78
Drawn PARKER 4-78
Checked K. PETERSEN 10-78
Date

CHINO BASIN MUNICIPAL WATER DISTRICT
8555 Archibald Avenue, Cucamonga, California 91730
Post Office Box 697, Telephone (714) 987-1712

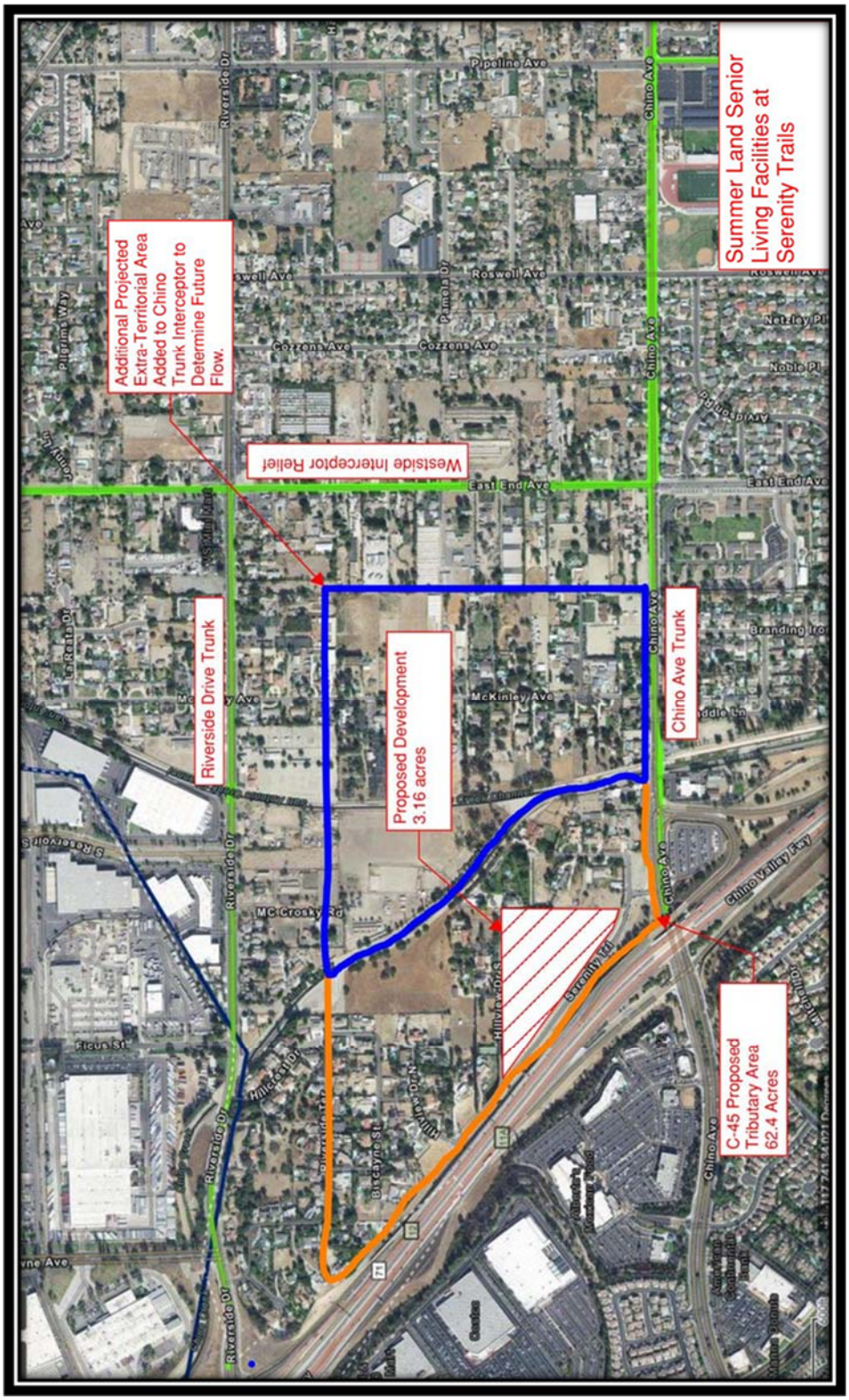
PARCEL MAP NO. 10048
TRACT 14442
CONN. NO. 68-2 CHINO AVE
SEWER IMPROVEMENT DETAILS

SHEET 8 OF 8 SHEETS
DWG. NO. D4582-8

CAD 42

ATTACHMENT B

General Location for Connection C-45



ATTACHMENT B – General Location

INFORMATION ITEM

2A

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

Date: January 27, 2022

To: Regional Technical Committee

From: Inland Empire Utilities Agency

Subject: City of Rialto Principles of Agreement

RECOMMENDATION

This is an information item.

BACKGROUND

To meet Chino Basin water quality objectives and wastewater permit compliance requirements, Inland Empire Utilities Agency (IEUA) is planning an advanced water purification facility (AWPF) located at Regional Plant No. 4 (RP-4) which requires a constant monthly recycled water supply for its operation. Due to the seasonality of IEUA's recycled water, the AWPF needs augmented recycled water supplies when the demands are higher than the available supplies during the six months between May and October. The City of Rialto (Rialto) is interested in monetizing its recycled water to achieve ecosystem benefits and financial security and is amenable to engage in a partnership with IEUA to develop terms for their recycled water supplies. The removal of effluent flows generated from Rialto's treatment plant from the Santa Ana River will reduce the adverse impacts to native species and a portion of these flows would serve as part of the RP-4 AWPF supply.

The principles of agreement were drafted to consolidate the needs of both IEUA and Rialto. The proposed terms include the design and construction of the recycled water facilities, the diversion of 3,500 acre-feet per year (afy) between May and October into the IEUA recycled water system at a rate of $275 per acre-foot for a period of 50 years, and the first right of purchase for any amount above the 3,500 afy or the remaining six months.

IEUA will present this item to the Board of Directors as an action item in February 2022. Rialto will present it to their City Council for approval in February 2022.

INFORMATION ITEM

2B

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

Recycled Water Cost of Service Study

Eddie Lin
Strategic Planning and Resources
January-February 2022

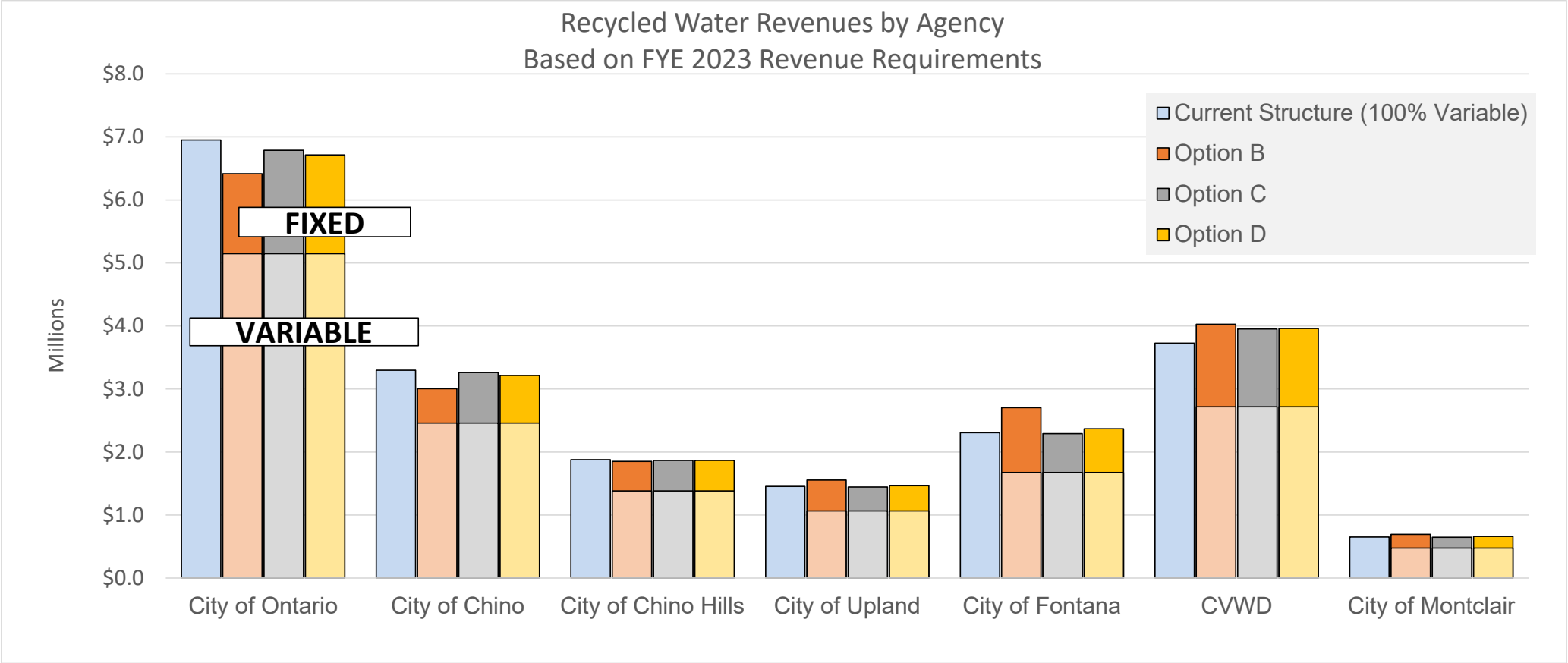
Recycled Water Rate Study Goals

- Financial Resilience
  - Promote the resiliency and sustainability of the recycled water and recharge program
- Proportionality
  - Appropriately recover costs based on the services provided, equity, and affordability
- Collaboration
  - Employ an open, collaborative, and transparent public process
- Compliance with California Law
  - Ensure that rates adhere to State legal requirements.

Recycled Water Rate Study
Fixed Cost Recovery

- Developing fixed cost recovery structure
  - Projected recycled water supply:
    - 56,000 acre-ft per year
  - Projected demand assumptions:
    - Direct use = 18,000 acre-ft per year
    - Recharge = 16,000 acre-ft per year
- Seven rate structures considered, narrowed down to three
  - Option B: Fixed charge based on Equivalent Dwelling Units (EDUs)
  - Option C: Fixed charge based on 3-year rolling average demands
  - Option D: Fixed charge based on 3-year rolling average (direct) and EDUs (recharge)

Recycled Water Rate Study Structure Options



Recycled Water Rate Study Milestones

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

April 2021
Kickoff Meeting with Consultant

January 2022
Update to Board, Technical Committee and Policy Committee

July 1, 2022
Implement new rate

Member Agencies Meetings/Workshops

June 2021
Workshop 1

August 2021
Workshop 2

November 2021
Workshop 3

Refine as needed based on additional input and Board direction

INFORMATION ITEM

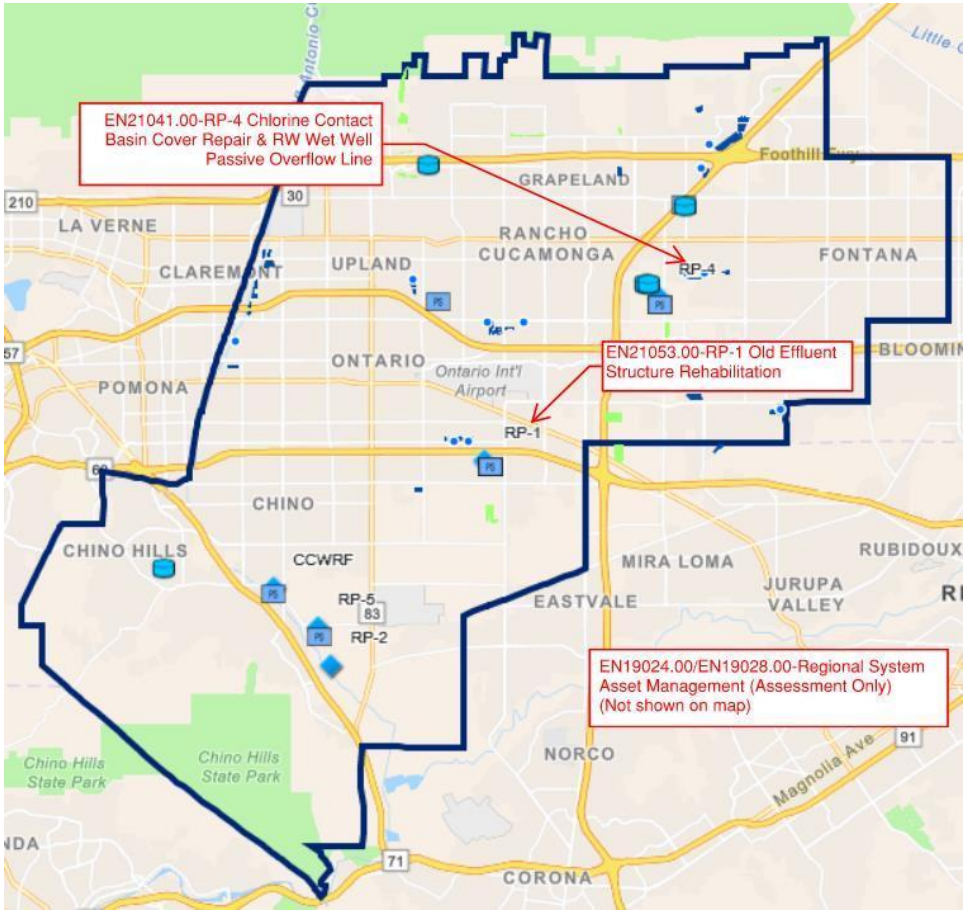
2C

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

Engineering and Construction Management Quarterly Project Updates Regional Tech/Policy Committees

Jason Marseilles, P.E.
Manager of Engineering

January/February 2022



Project Location Map

Collection System Asset Management

Project Goal: Maintain Existing Assets

Remote CCTV Entering MH for Inspection

Total Project Budget: $3.7 M

Project Completion: September 2022

Condition Assessment Percent Complete: 25%

Phase	Consultant/ Contractor	Current Contract	Amendments/ Change Orders
Condition Assessment	CDM Smith	$2.9 M	2%

Project Management Team	
Project Manager:	Ignacio, Joel
Assistant/Associate Engineer:	Ward, Ryan
Administrative Assistant:	GK & Associates
Inspector:	GK & Associates

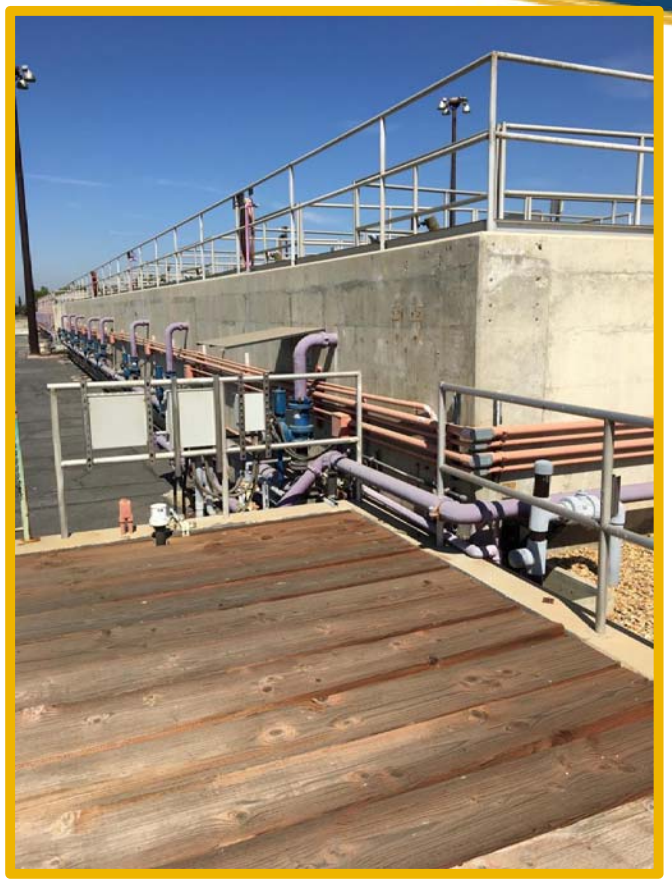
RP-1 Old Effluent Structure Rehabilitation

Project Goal: Rehabilitate/Repair Existing Assets

Total Project Budget: $1.5M
Project Completion: March 2024
Design Percent Complete: 30%

Phase	Consultant/ Contractor	Current Contract	Amendments/ Change Orders
Pre-Design (Current)	GHD	$56k	0%
Construction	TBD	$0	0%

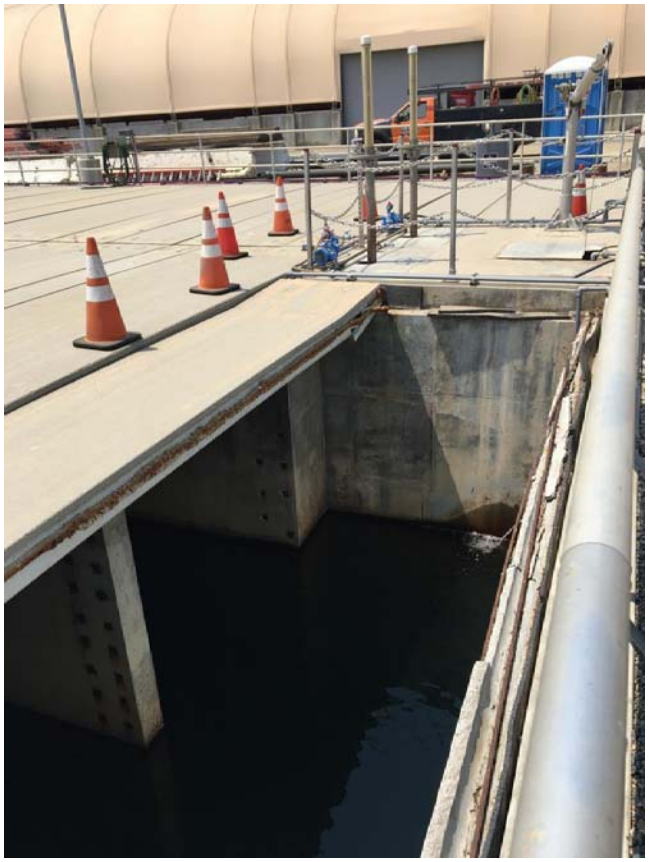
Project Management Team	
Project Manager:	Zughbi, Jamal
Assistant/Associate Engineer:	Ferrer, Karen
Administrative Assistant:	Wood & Associates
Inspector:	TBD



Unsecured Wood Plank Covers

RP-4 Chlorine Contact Basin Cover Repair & RW Wet Well Passive Overflow Line

Project Goal: Rehabilitate/Repair Existing Assets and Improve Safety



RP-4 Chlorine Contact Basin 2

Total Project Budget: $4.3M

Project Completion: September 2023

Design Percent Complete: 10%

Phase	Consultant/ Contractor	Current Contract	Amendments/ Change Orders
Pre-Design (Current)	GHD	$144k	0%
Construction	TBD	$0	0%

Project Management Team	
Project Manager:	Zughbi, Jamal
Assistant/Associate Engineer:	Tao, Justin
Administrative Assistant:	Wood & Associates
Inspector:	TBD

INFORMATION ITEM

2D

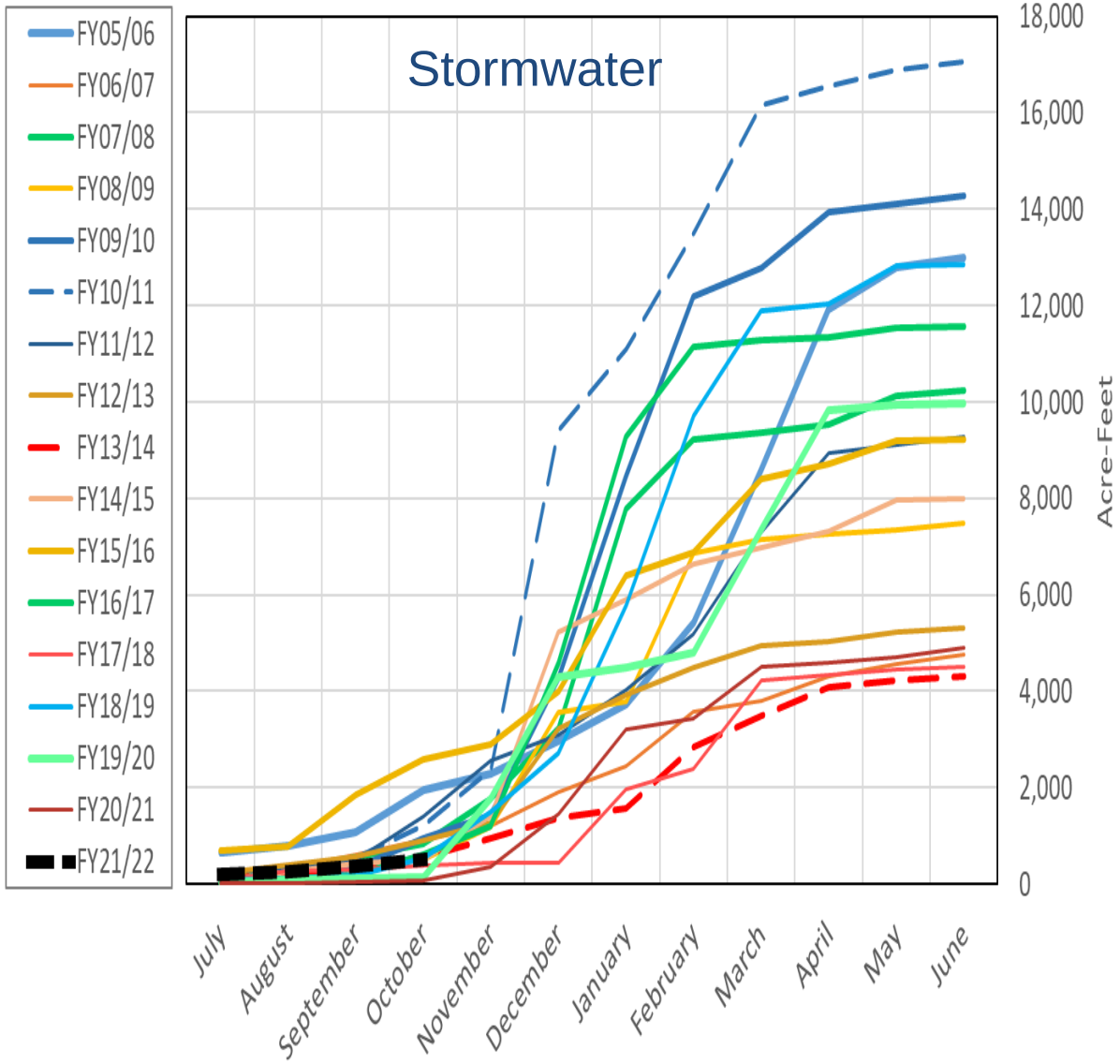
Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

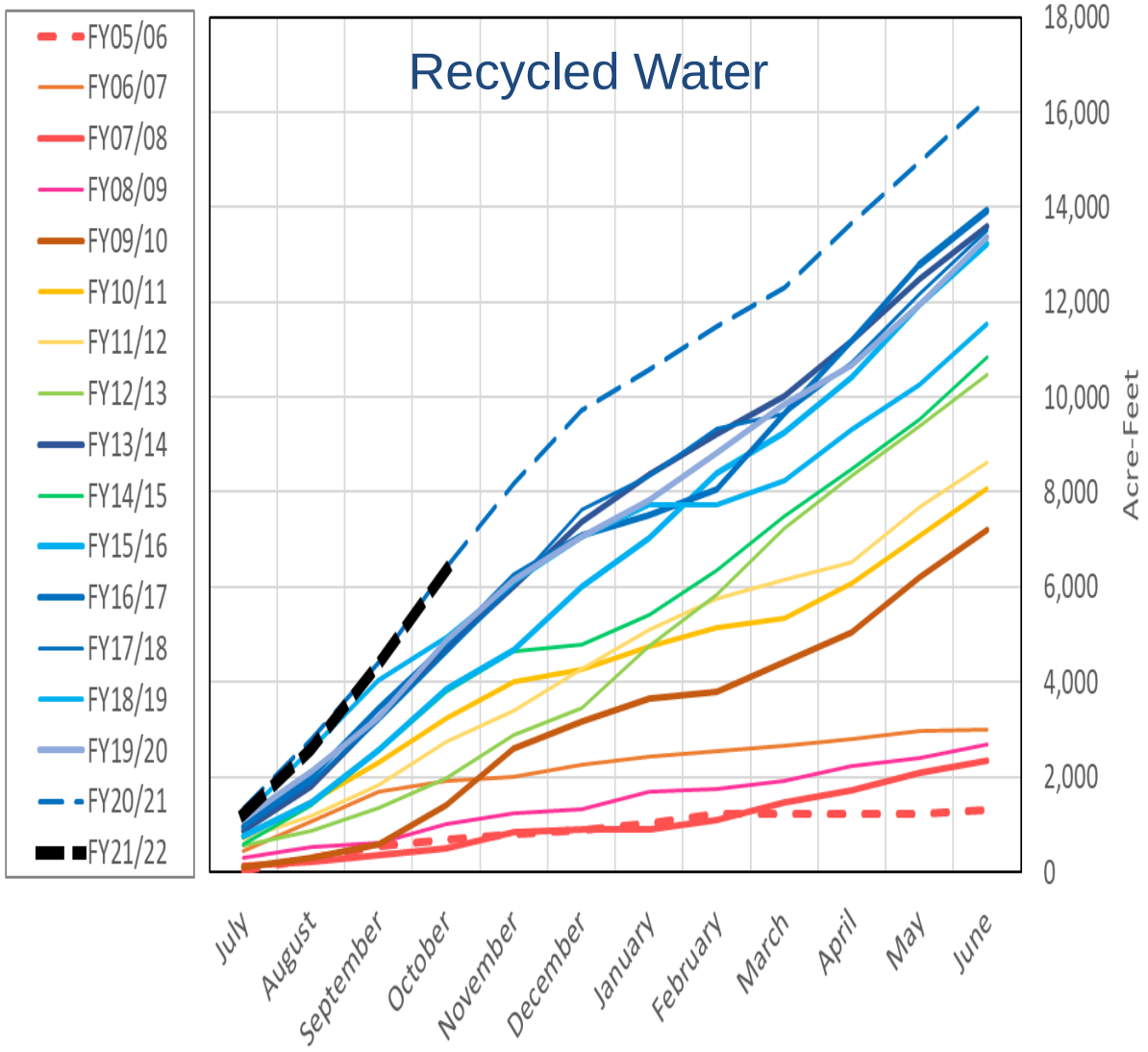
Recycled Water Groundwater Recharge Update

Andy Campbell, PG, CHG
GWR Coordinator/Hydrogeologist

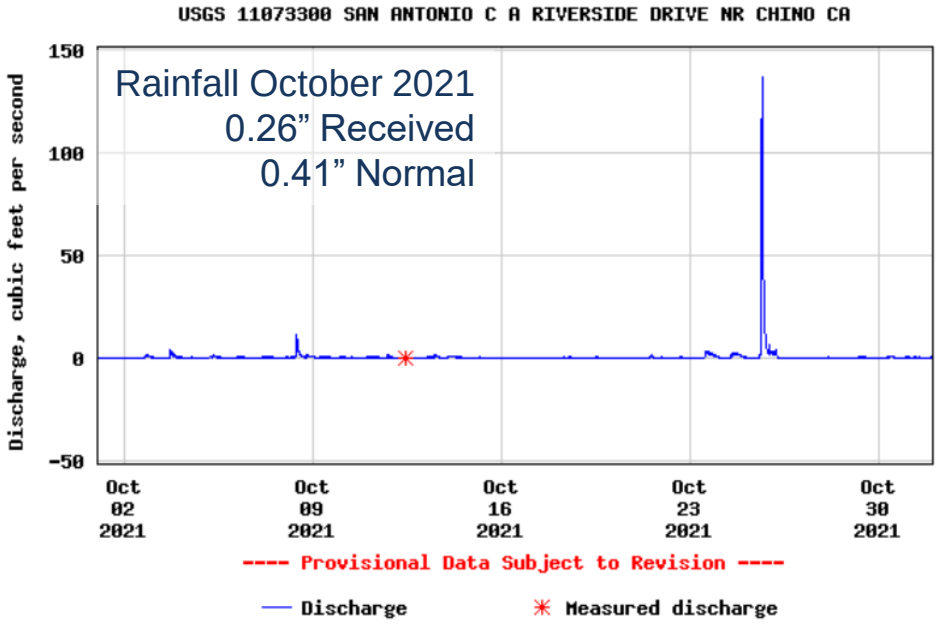
December 2021

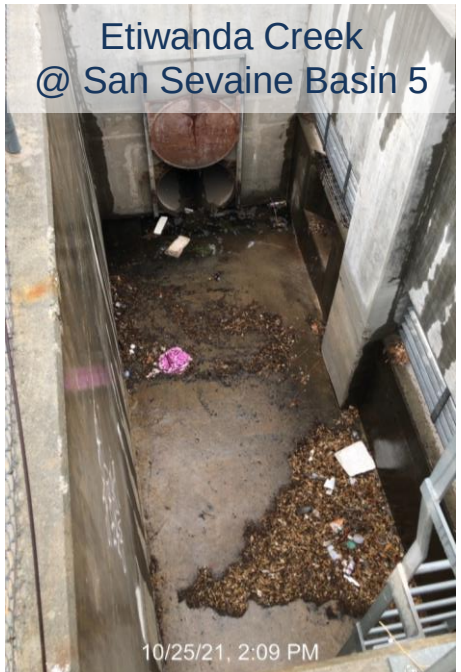
Accumulated Monthly Recharge By Source



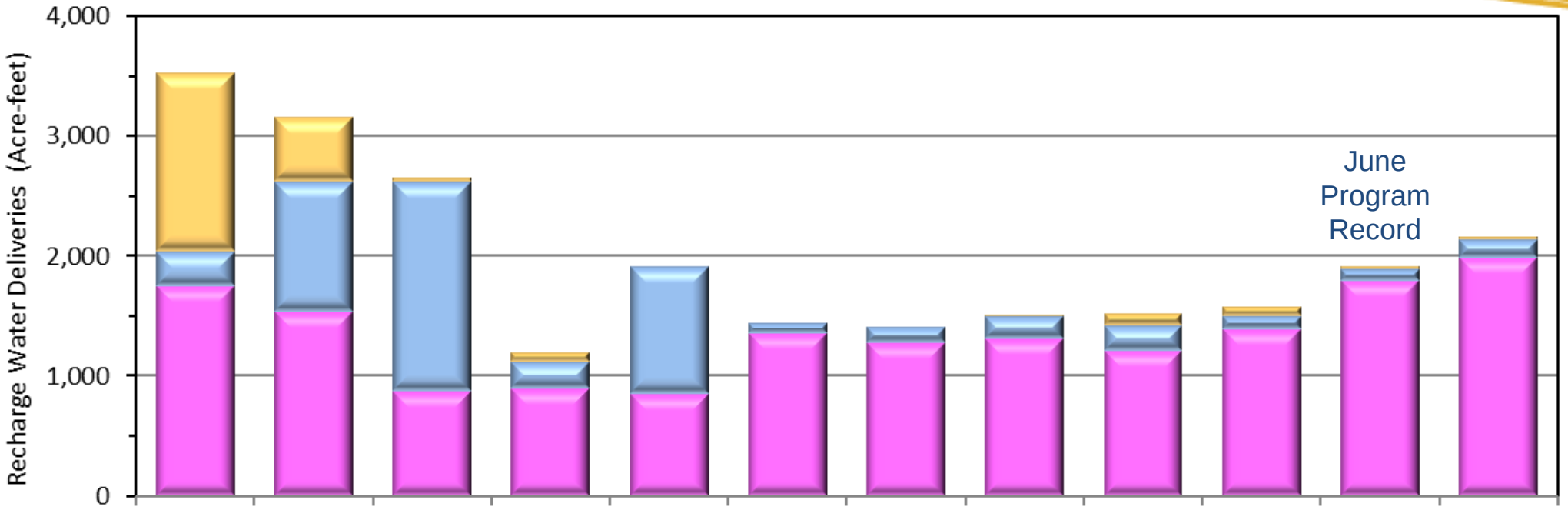


October Rainfall – Light Rain-First Flush



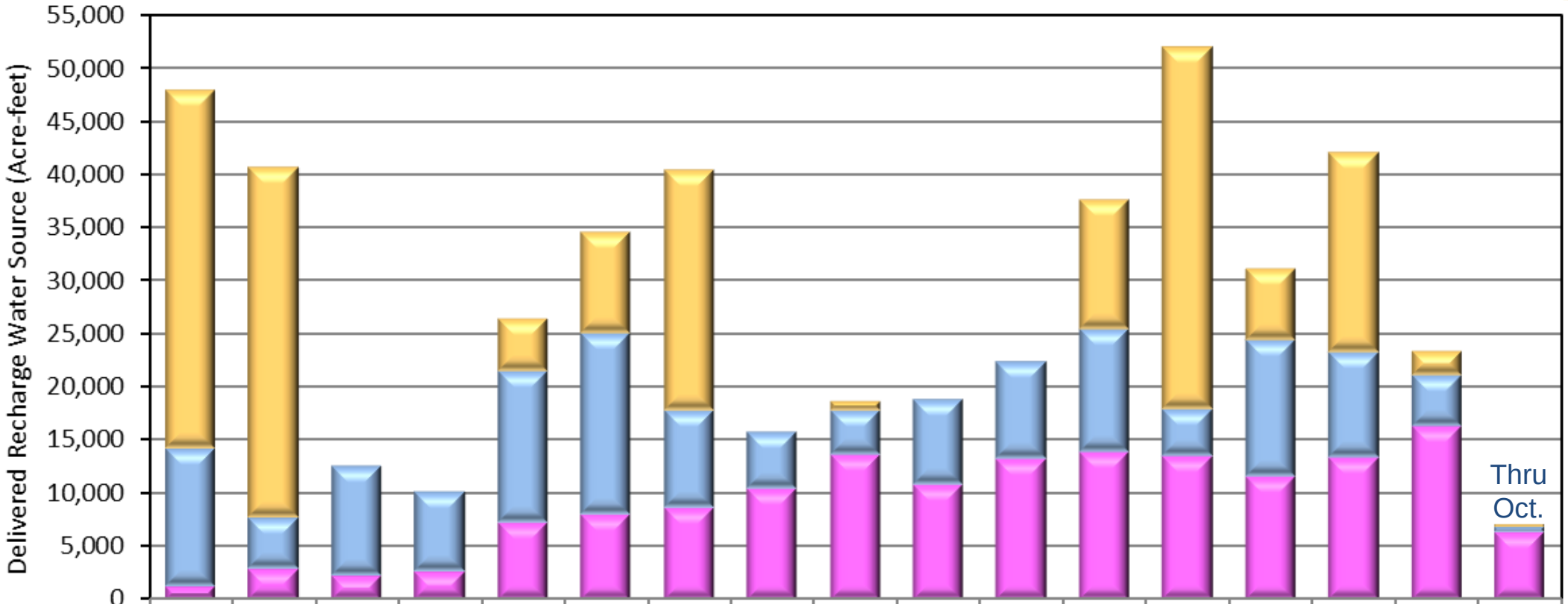


Groundwater Recharge Deliveries Past 12 Months



	Aug 2020	Sep 2020	Oct 2020	Nov 2020	Dec 2020	Jan 2021	Feb 2021	Mar 2021	Apr 2021	May 2021	Jun 2021	Jul 2021
MWD and other Imported Water	1,498	542	25	76	0	0	0	2	108	69	33	26
Stormwater and LR (excluded Non-Replenishment)	290	1,090	1,758	227	1,063	93	134	185	209	118	96	162
Recycled Water	1,749	1,528	868	891	849	1,350	1,274	1,311	1,209	1,387	1,791	1,979

Groundwater Recharge Annual History

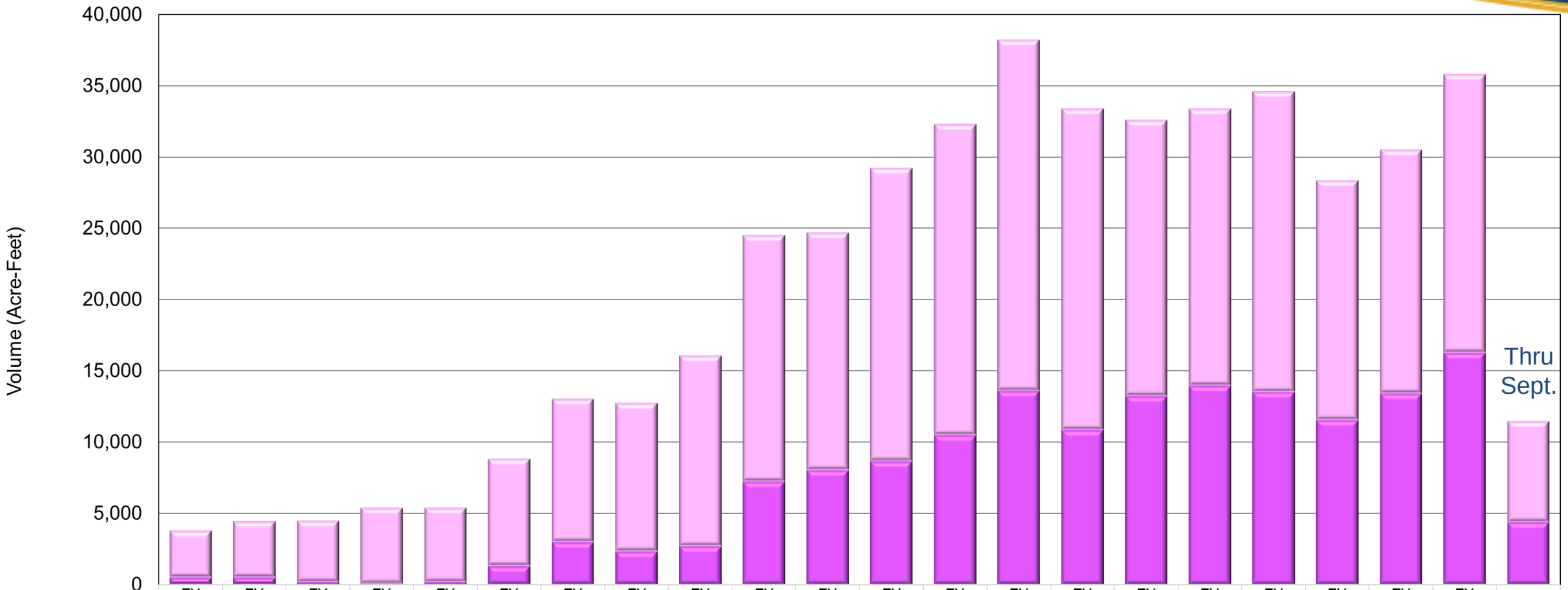


	FY 05/06	FY 06/07	FY 07/08	FY 08/09	FY 09/10	FY 10/11	FY 11/12	FY 12/13	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22
MWD and Other Imported Water	33,704	32,968	-	-	5,000.	9,465.	22,560	-	795.4	-	-	12,129	34,123	6,786.	18,776	2,265.	235.8
Stormwater and LR (excludes Non-Repl.	12,999	4,770.	10,243	7,494.	14,274	17,051	9,266.	5,298.	4,299.	7,996.	9,233.	11,574	4,494.	12,861	9,966.	4,910.	505.9
Recycled Water	1,303.	2,988.	2,340.	2,684.	7,210.	8,065.	8,634.	10,479	13,593	10,840	13,222	13,934	13,510	11,542	13,380	16,252	6,370.

Upcoming Recharge Activities

- November, December - Watermaster Replenishment Obligation 2,077 AF
- November – Etiwanda Debris Basin Burrowing Owl Weephole Exclusion
- December – Etiwanda Debris Basin Infiltration Restoration
- January – RP3 and Lower Day RMPU Project Operation
- Spring Infiltration Restoration Sites – Lower Day
- Spring Basin Fill Removal – Magnolia Channel Basin

Recycled Water (RW) Demand History



	FY 00/01	FY 01/02	FY 02/03	FY 03/04	FY 04/05	FY 05/06	FY 06/07	FY 07/08	FY 08/09	FY 09/10	FY 10/11	FY 11/12	FY 12/13	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY21/22
RW Direct Use	3,296	3,937	4,308	5,348	5,230	7,539	10,040	10,404	13,372	17,304	16,650	20,596	21,825	24,621	22,547	19,370	19,436	21,092	16,803	17,115	19,534	7,060
RW Recharge	500	505	185	49	158	1,303	2,981	2,340	2,684	7,208	8,028	8,634	10,479	13,593	10,840	13,222	13,934	13,510	11,542	13,381	16,253	4,387

INFORMATION ITEM

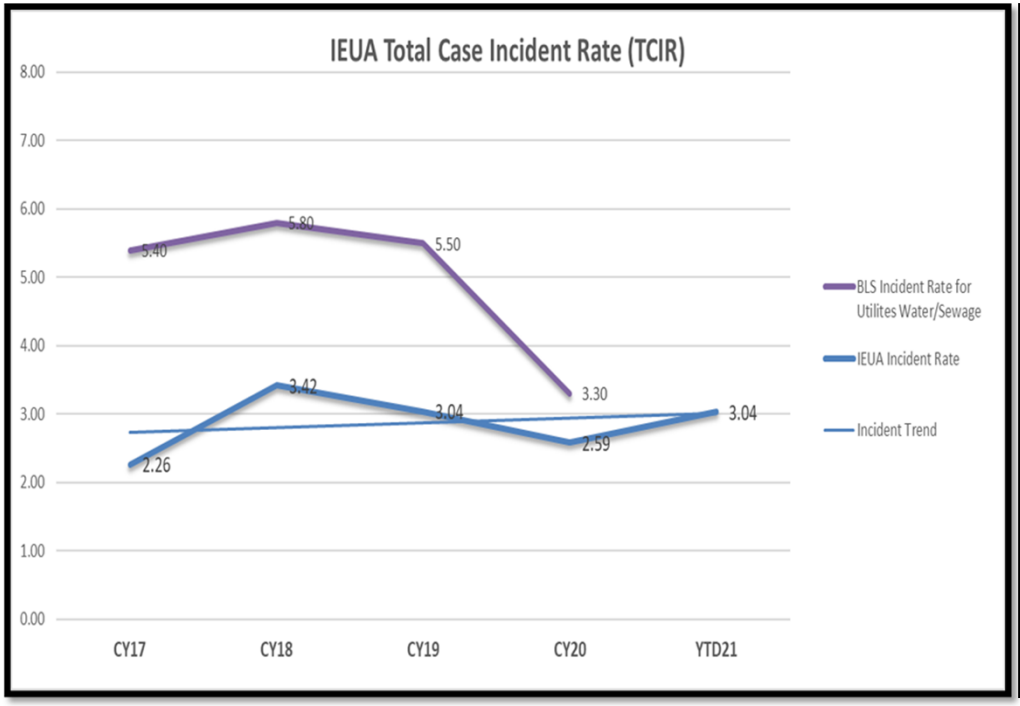
2E

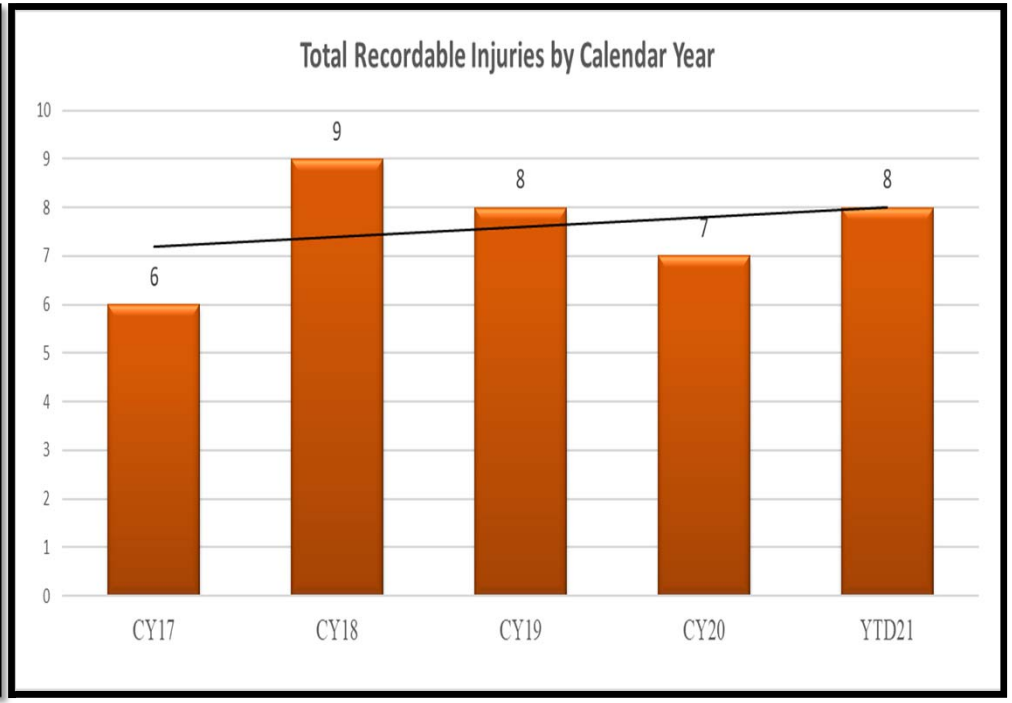
Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

Operations Division Quarterly Update

Don Hamlett
Acting Deputy Manager of Integrated Systems Services
January 2022

IEUA Incident Rates vs. Industry & Total Recordable Injuries





* Estimated incident rate based on past December hours worked

Q2 Cybersecurity

Protect | Detect | Respond

Beginning October 2021, Monthly Cybersecurity training courses were assigned to all staff. Each approximately 15 minutes in length, user security awareness concepts including social engineering, web safety, and technology tips are introduced and reinforced.

Staff Engagement

Your training completion rate

Your completion rate

62.47%

Industry average completion rate **65.11%**

Your average learner training time

Average time per learner (minutes)

15.05

Recommended annual learner training time (minu... **60**

Your on time completion

On-time completion

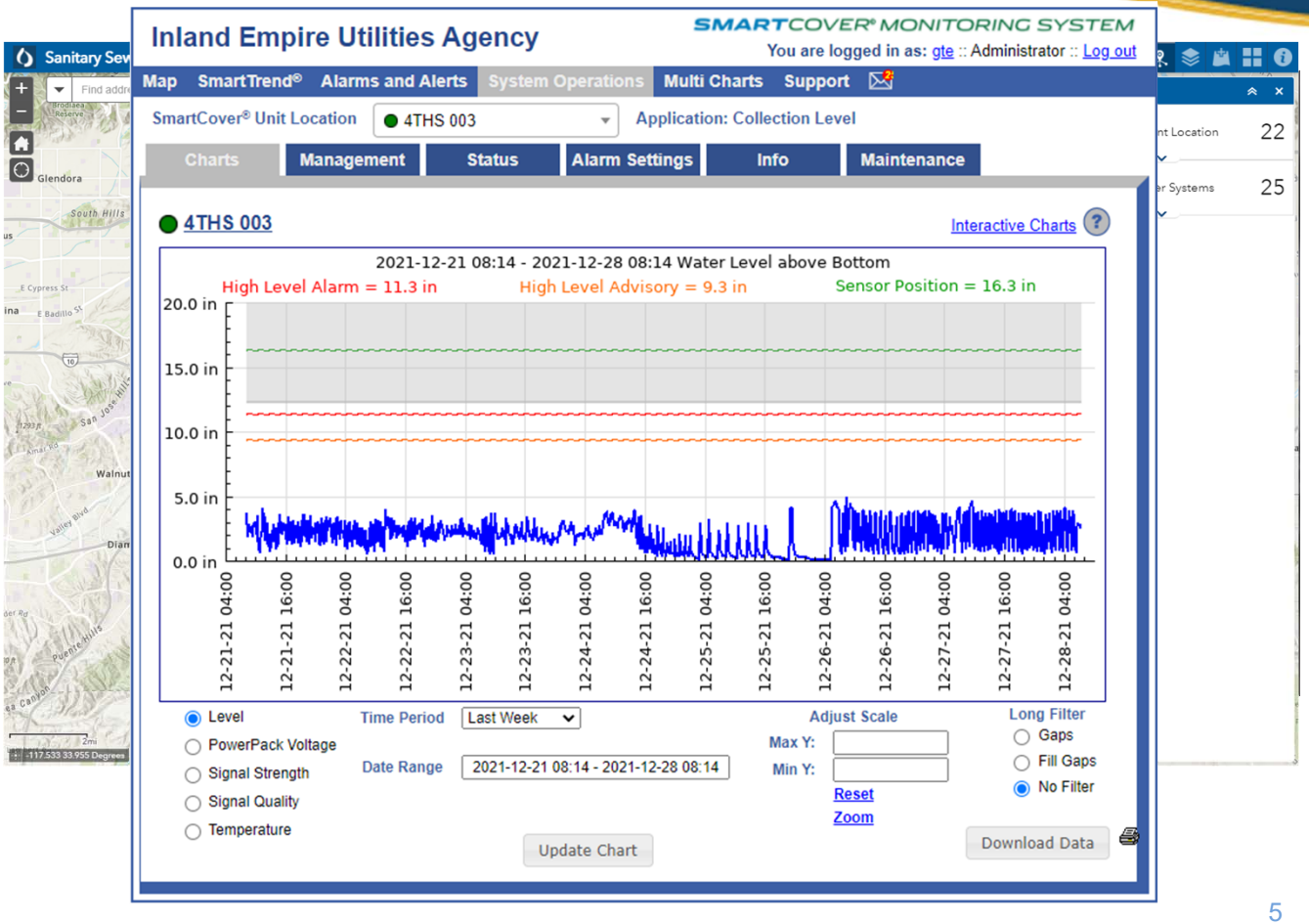
77.57%

Late completion **22.43%**

Q3 Goals

- **HQA Firewall Upgrade**
  - Increased capacity
  - Improved security
- **Cloud Migration SAP Non-Production**
  - Increased Flexibility
  - Secure Access for development team
  - Rapid deployment
  - Proof of concept
- **Contract Incident Response Retainer**
  - Cybersecurity program review
  - Risk modeling
  - Dedicated Rapid Response

SmartCover Technology Update



IERCF Reliability Update

- Using laser to digitally align pullies and bearings
- Procured loaders engineered specifically for the waste sector
  - Corrosion resistant
  - Sealed cabs
  - Center-mounted radiator
  - Heavy-duty pins
  - Increased visibility

Industrial wheel loaders

Laser alignment tool

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Regional Sewerage Program Policy Committee Meeting

AGENDA

Thursday, February 3, 2022
3:30 p.m.
Teleconference Call

In an effort to prevent the spread of COVID-19, the Regional Sewerage Program Policy Committee Meeting will be held remotely by teleconference.

Teams Conference Link: https://teams.microsoft.com/l/meetup-join/19%3ameeting_NWU1NzA2NDktM2VjMC00NDU1LTkxMmUtMjYyMjA2YWM3YWU4%40thread.v2/0?context=%7b%22Tid%22%3a%224c0c1e57-30f3-4048-9bd2-cd58917dcf07%22%2c%22Oid%22%3a%22329ec40e-eb94-4218-9621-6bfa0baa9697%22%7d

Teleconference: 1-415-856-9169/Conference ID: 552 973 583#

This meeting is being conducted virtually by video and audio conferencing. There will be no public location available to attend the meeting; however, the public may participate and provide public comment during the meeting by calling the number provided above. Alternatively, you may email your public comments to the Recording Secretary Sally Lee at shlee@ieua.org no later than 24 hours prior to the scheduled meeting time. Your comments will then be read into the record during the meeting.

Call to Order/Flag Salute

Roll Call

Public Comment

Members of the public may address the Committee on any item that is within the jurisdiction of the Committee; however, no action may be taken on any item not appearing on the agenda unless the action is otherwise authorized by Subdivision (b) of Section 54954.2 of the Government Code. Comments will be limited to three minutes per speaker.

(Continued)

Additions to the Agenda

In accordance with Section 54954.2 of the Government Code (Brown Act), additions to the agenda require two-thirds vote of the legislative body, or, if less than two-thirds of the members are present, a unanimous vote of those members present, that there is a need to take immediate action and that the need for action came to the attention of the local agency subsequent to the agenda being posted.

1. **Technical Committee Report** *(Oral)*

2. **Action Item**
   A. Approval of November 4, 2021 Policy Committee Meeting Minutes

3. **Informational Items**
   A. Regional Contract Negotiation Update *(Oral)*
   B. Rialto Water Principles Agreement
   C. Recycled Water Cost of Service Study
   D. Engineering Quarterly Update
   E. Groundwater Recharge Update
   F. Operations Division Quarterly Update

4. **Receive and File**
   A. Building Activity Report
   B. Recycled Water Distribution – Operations Summary
   C. Revised Annual FY 2020-21 Reports

5. **Policy Committee Items Distributed**
   None

6. **Other Business**
   A. IEUA General Manager's Update
   B. Committee Member Requested Agenda Items for Next Meeting
   C. Committee Member Comments
   D. Next Meeting – March 3, 2022

Adjourn

DECLARATION OF POSTING

I, Sally Lee, Executive Assistant of the Inland Empire Utilities Agency*, a Municipal Water District, hereby certify that, per Government Code Section 54954.2, a copy of this agenda has been posted at the Agency's main office, 6075 Kimball Avenue, Building A, Chino, CA and on the Agency's website at www.ieua.org at least seventy-two (72) hours prior to the meeting date and time above.

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact Sally Lee at (909) 993-1926 or shlee@ieua.org 48 hours prior to the scheduled meeting so that IEUA can make reasonable arrangements to ensure accessibility.

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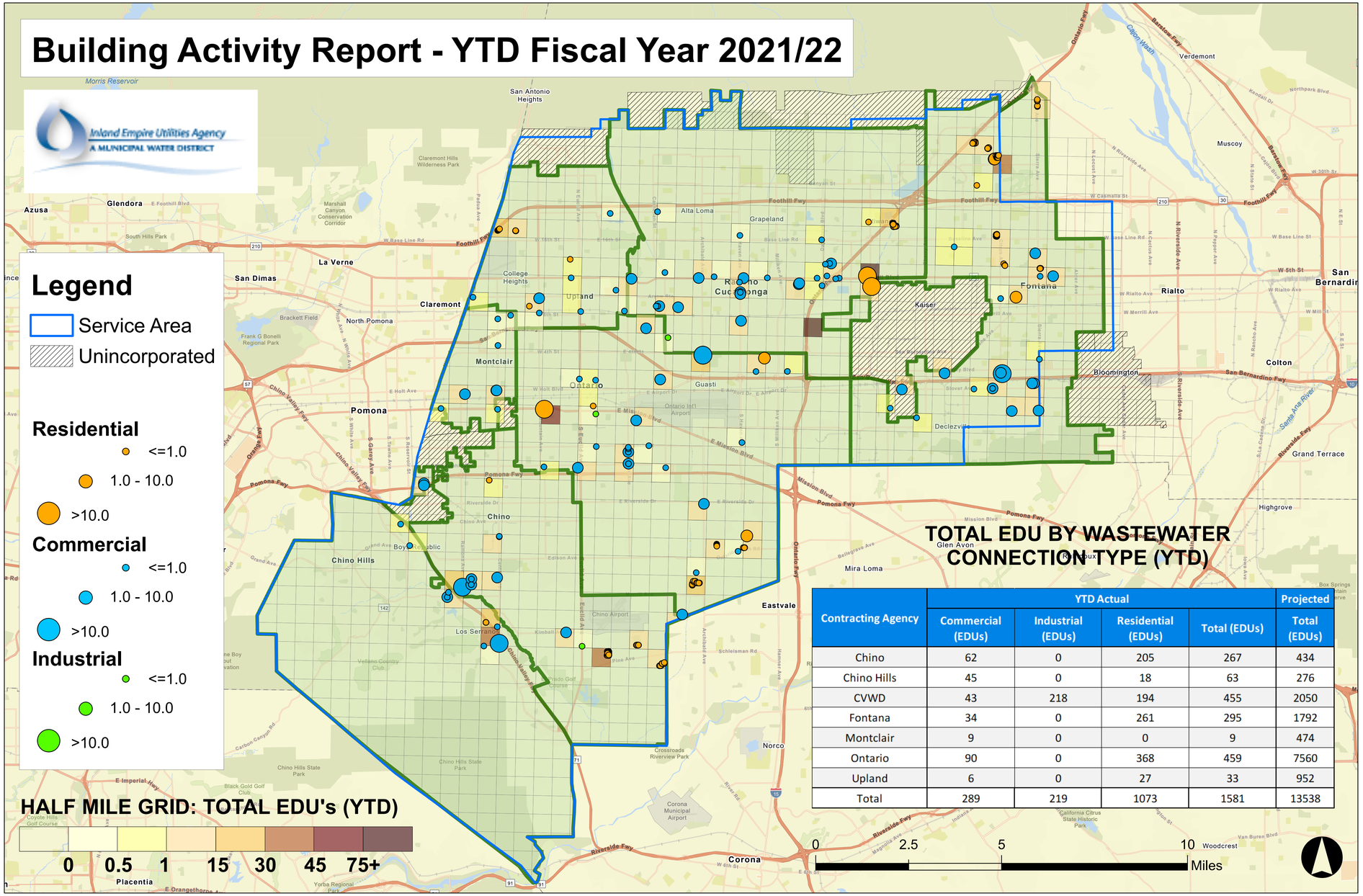
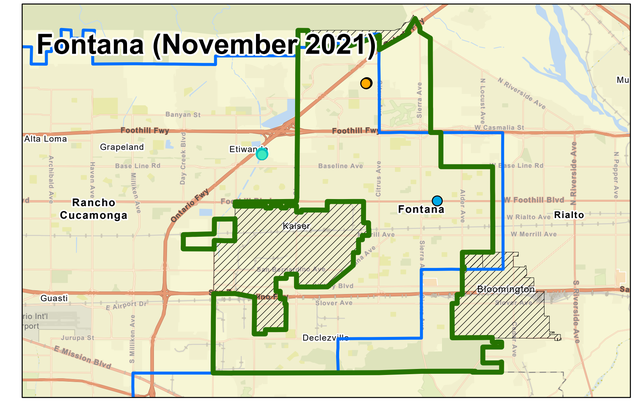
BAR Note:
*Ontario data does not include November values. Ontario CCRA balance and October data is currently pending review.

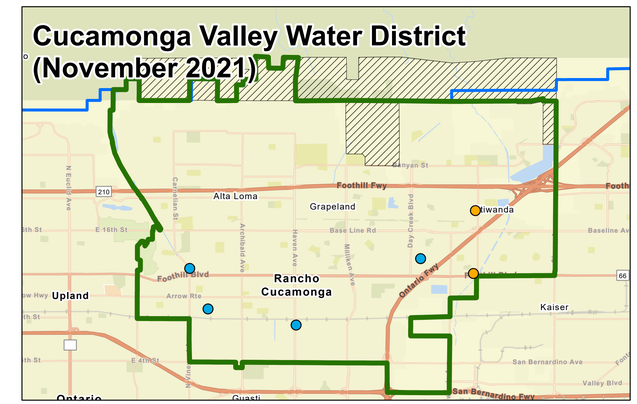
Building Activity Report - YTD Fiscal Year 2021/22

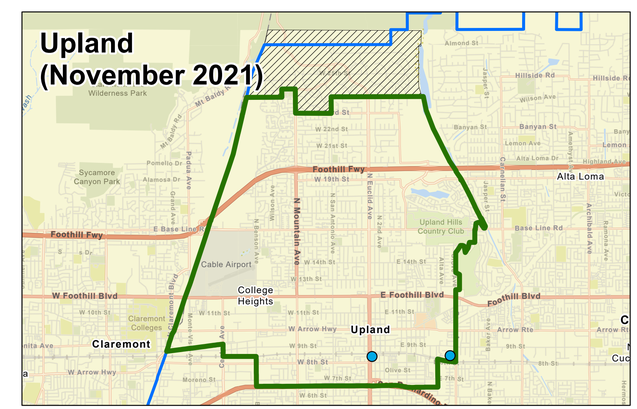


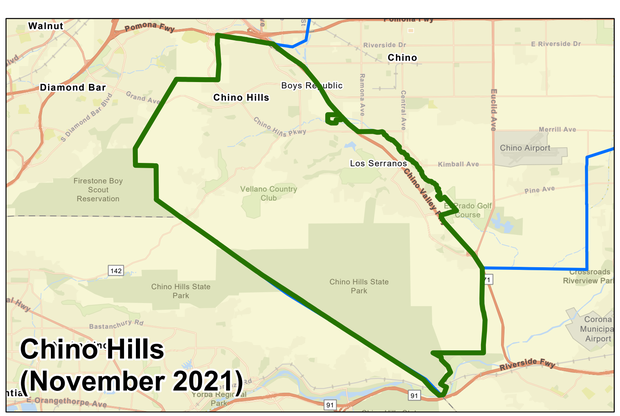
TOTAL EDU BY WASTEWATER CONNECTION TYPE (YTD)

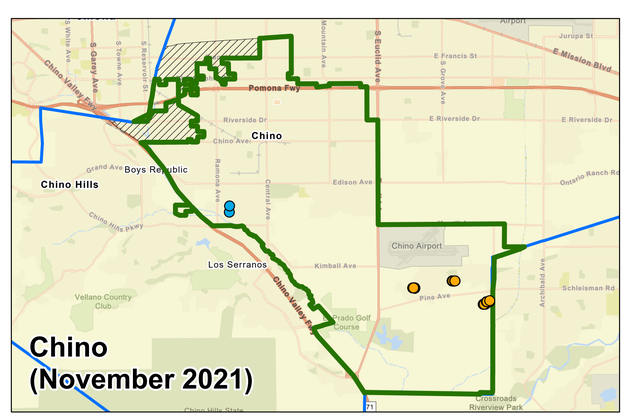
Contracting Agency	YTD Actual				Projected
	Commercial (EDUs)	Industrial (EDUs)	Residential (EDUs)	Total (EDUs)	Total (EDUs)
Chino	62	0	205	267	434
Chino Hills	45	0	18	63	276
CVWD	43	218	194	455	2050
Fontana	34	0	261	295	1792
Montclair	9	0	0	9	474
Ontario	90	0	368	459	7560
Upland	6	0	27	33	952
Total	289	219	1073	1581	13538

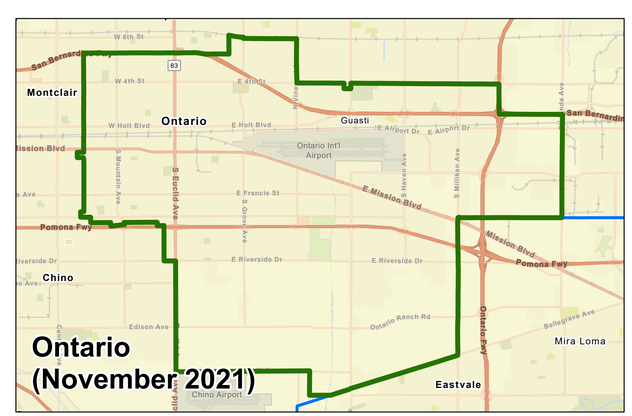


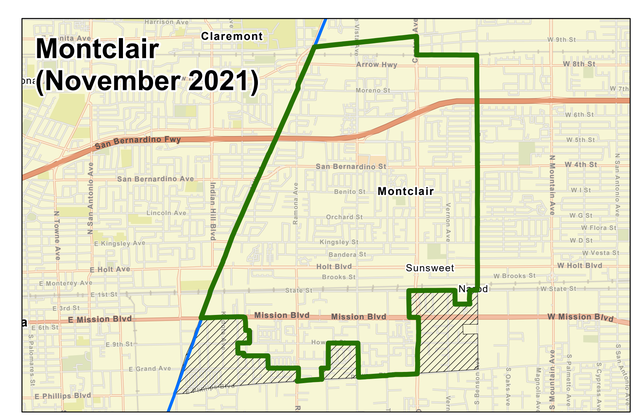












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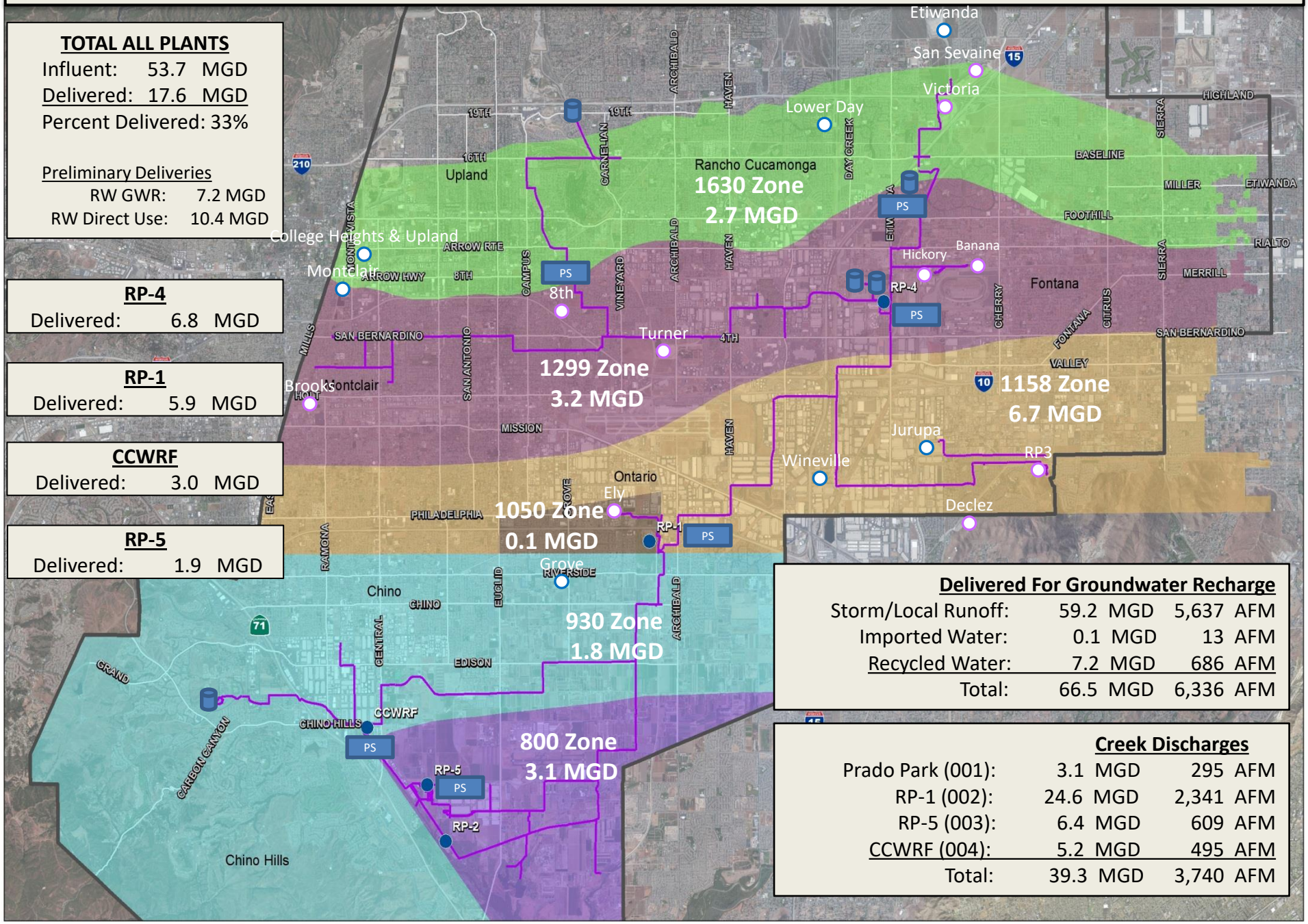
IEUA RECYCLED WATER DISTRIBUTION – DECEMBER 2021



TOTAL ALL PLANTS

Influent: 53.7 MGD
Delivered: 17.6 MGD
Percent Delivered: 33%

Preliminary Deliveries
RW GWR: 7.2 MGD
RW Direct Use: 10.4 MGD

RP-4
Delivered: 6.8 MGD

RP-1
Delivered: 5.9 MGD

CCWRF
Delivered: 3.0 MGD

RP-5
Delivered: 1.9 MGD

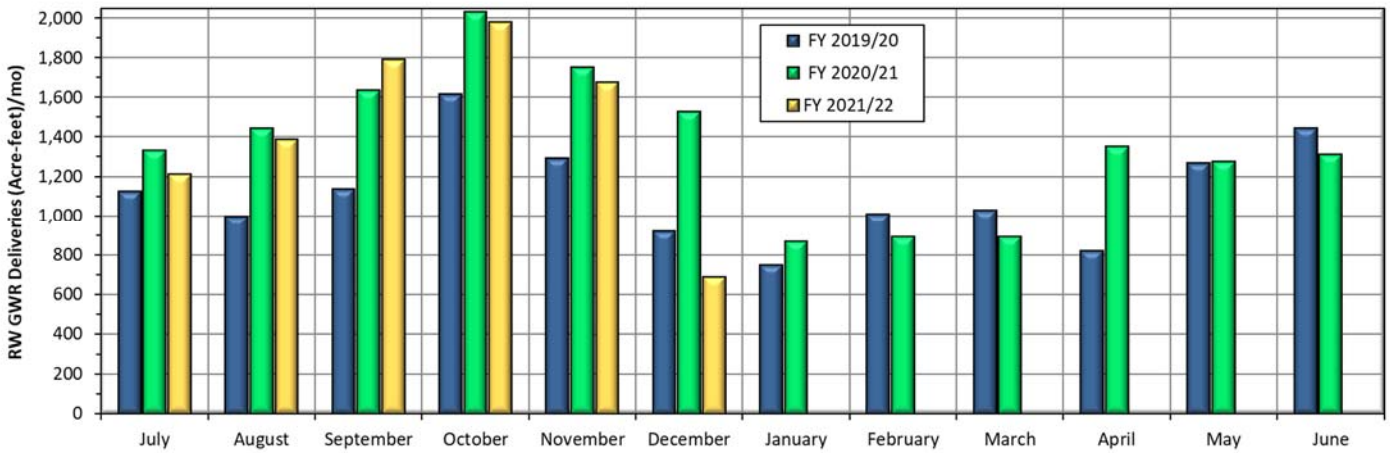
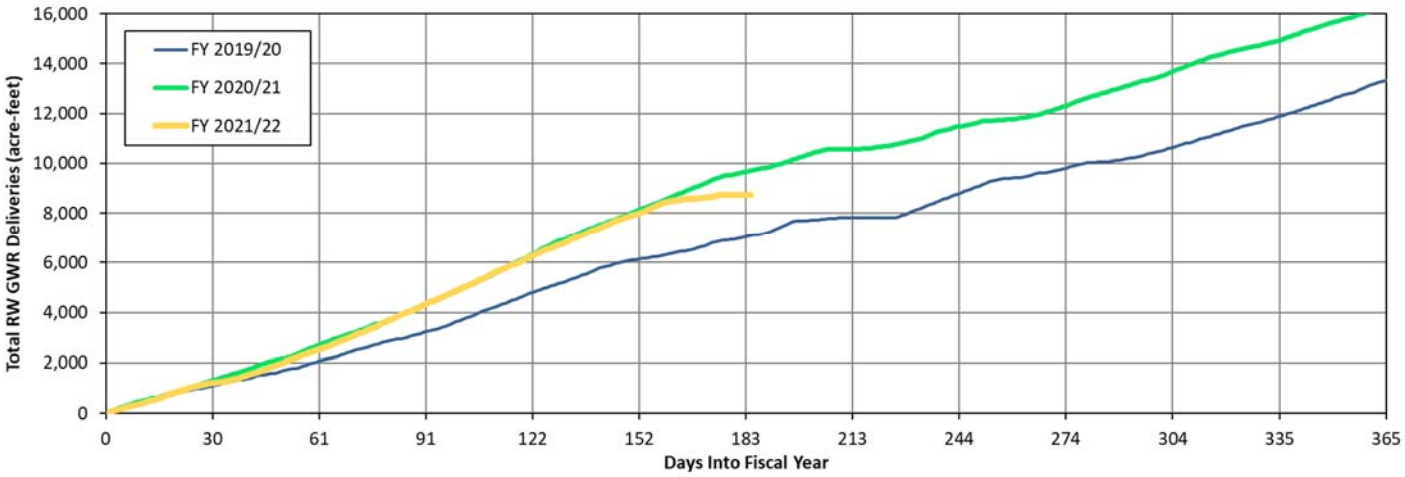
Delivered For Groundwater Recharge

Storm/Local Runoff:	59.2 MGD	5,637 AFM
Imported Water:	0.1 MGD	13 AFM
Recycled Water:	7.2 MGD	686 AFM
Total:	66.5 MGD	6,336 AFM

Creek Discharges

Prado Park (001):	3.1 MGD	295 AFM
RP-1 (002):	24.6 MGD	2,341 AFM
RP-5 (003):	6.4 MGD	609 AFM
CCWRF (004):	5.2 MGD	495 AFM
Total:	39.3 MGD	3,740 AFM

Recycled Water Recharge Deliveries - December 2021 (Acre-Feet)

Basin	12/1-12/4	12/5-12/11	12/12-12/18	12/19-12/25	12/26-12/31	Month Actual	FY To Date Actual	Deliveries are draft until reported as final and do not included evaporative losses.
Ely	0.0	0.0	0.0	0.0	0.0	0.0	355	Lost RW due to Storm Flow: 221.2 AF
Banana	0.0	1.9	0.0	0.0	0.0	1.9	367	Lost RW due to Storm Flow: 16.6 AF
Hickory	5.2	2.6	0.0	0.0	0.0	7.8	611	Lost RW due to Storm Flow: 37.6 AF
Turner 1 & 2	0.0	0.0	0.0	0.0	0.0	0.0	401	Lost RW due to Storm Flow: 0.0 AF
Turner 3 & 4	23.1	10.0	0.0	0.0	0.0	33.1		Lost RW due to Storm Flow: 0.0 AF
8th Street	52.1	50.8	0.0	0.0	0.0	102.9	1102	Lost RW due to Storm Flow: 15.2 AF
Brooks	20.6	6.4	0.0	0.0	0.0	27.0	479	Lost RW due to Storm Flow: 0.0 AF
RP3	84.9	111.1	46.0	41.2	0.0	283.2	2946	Lost RW due to Storm Flow: 0.0 AF
Declez	0.3	0.0	0.0	0.0	0.0	0.3	487	Lost RW due to Storm Flow: 53.9 AF
Victoria	28.1	26.2	19.7	22.3	0.0	96.3	477	Lost RW due to Storm Flow: 0.0 AF
San Sevaine	34.5	56.7	8.1	30.4	3.4	133.1	1501	Lost RW due to Storm Flow: 0.0 AF
Total	248.8	265.7	73.8	93.9	3.4	685.6	0	9,711 AF previous FY to day actual

Total RW lost due to Dec. storms: 344.0 AF