

L. LEGAL DESCRIPTION (CONTINUED)

COMMENCING AT THE SOUTHEAST BOUNDARY CORNER PARCEL MAP NO.21215, IN THE CITY OF CHULA VISTA, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, FILED IN THE OFFICE OF SAID COUNTY RECORDER JANUARY 29, 2015; THENCE ALONG THE BOUNDARY THEREOF, ALSO BEING THE EASTERLY LINE OF LOTS 25 AND 24 OF SAID OTAY RANCHO, NORTH 18°40'35" WEST, 8171.36' (N18°40'35"W, 8171.36' PER SAID PARCEL MAP) TO A POINT ON THE SOUTHERLY BOUNDARY OF SAID SAN DIEGO PIPELINE RIGHT-OF-WAY, SAID POINT BEING THE TRUE POINT OF BEGINNING; THENCE ALONG SAID PARCEL MAP AND SAN DIEGO PIPELINE RIGHT-OF-WAY BOUNDARIES SOUTH 79°53'28" WEST, 126.70 FEET TO THE EASTERLY SIDELINE OF STATE ROUTE 125 SHOWN AND DESCRIBED ON RECORD OF SURVEY MAP NO. 20626, IN THE CITY OF CHULA VISTA, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, FILED IN THE OFFICE OF SAID COUNTY RECORDER NOVEMBER 20, 2009; THENCE CONTINUING SOUTH 79°53'28" WEST, 114.03 FEET TO THE BEGINNING OF A 149.18 FOOT RADIUS CURVE CONCAVE SOUTHERLY; THENCE WESTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 19°12'00" A DISTANCE OF 49.99 FEET THENCE SOUTH 60°41'28" WEST, 275.90 FEET TO THE BEGINNING OF A 366.48 FOOT RADIUS CURVE CONCAVE NORTHWESTERLY; THENCE SOUTHWESTERLY ALONG ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 11°00'00" A DISTANCE OF 70.36 FEET; THENCE SOUTH 71°41'28" WEST, 19.21 FEET TO THE WESTERLY SIDELINE OF SAID STATE ROUTE 125; THENCE CONTINUING SOUTH 71°41'28" WEST, 372.54 FEET TO THE BEGINNING OF A 366.48 FOOT RADIUS CURVE CONCAVE NORTHERLY; THENCE WESTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 27°32'56" A DISTANCE OF 176.21 FEET; THENCE NORTH 80°45'36" WEST, 1642.06 FEET TO AN ANGLE POINT IN SAID PARCEL MAP BOUNDARY AND THE WESTERLY LINE OF SAID LOT 24; THENCE LEAVING SAID PARCEL MAP AND SAN DIEGO PIPELINE RIGHT-OF-WAY BOUNDARIES ALONG SAID WESTERLY LINE NORTH 18°40'05" WEST, 113.16 FEET TO THE NORTHERLY LINE OF SAID PIPELINE RIGHT-OF-WAY AND ANGLE POINT IN SAID PARCEL MAP BOUNDARY, SAID NORTHERLY LINE BEING 100.00 FEET NORTHERLY OF AND PARALLEL TO THE HEREINABOVE DESCRIBED SOUTHERLY LINE OF SAID PIPELINE RIGHT-OF-WAY; THENCE LEAVING SAID WESTERLY LINE OF LOT 24 ALONG SAID PARCEL MAP AND PIPELINE RIGHT-OF-WAY BOUNDARIES SOUTH 80°45'36" EAST, 1695.02 FEET TO THE BEGINNING OF A 266.48 FOOT RADIUS CURVE CONCAVE NORTHERLY; THENCE EASTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 27°32'56" A DISTANCE OF 128.13 FEET; NORTH 71°41'28" EAST, 389.79 FEET TO SAID WESTERLY SIDELINE OF SAID STATE ROUTE 125; THENCE CONTINUING NORTH 71°41'28" EAST, 1.95 FEET TO THE BEGINNING OF A 266.46 FOOT RADIUS CURVE CONCAVE NORTHWESTERLY; THENCE NORTHEASTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 11°00'00" A DISTANCE OF 51.16 FEET; THENCE NORTH 60°41'28" EAST, 275.90 FEET TO THE BEGINNING OF A 249.18 FOOT RADIUS CURVE CONCAVE SOUTHERLY; THENCE EASTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 19°12'00" A DISTANCE OF 83.50 FEET; THENCE NORTH 79°53'28" EAST, 136.40 FEET TO A POINT ON SAID EASTERLY SIDELINE OF STATE ROUTE 125; THENCE CONTINUING NORTH 79°53'28" EAST, 89.26 FEET TO THE EASTERLY LINE OF SAID LOT 24, BEING AN ANGLE POINT IN SAID PARCEL MAP BOUNDARY; THENCE LEAVING SAID PARCEL MAP AND PIPELINE RIGHT-OF-WAY BOUNDARIES ALONG SAID EASTERLY LINE OF LOT 24 SOUTH 18°40'35" EAST, 101.13 FEET TO THE TRUE POINT OF BEGINNING.

EXCEPTING THEREFROM THE HEREINABOVE DESCRIBED PARCEL OF LAND ANY PORTION OF STATE ROUTE 125 AS SHOWN AND DESCRIBED ON SAID RECORD OF SURVEY MAP NO. 20626.

ALSO EXCEPT THEREFROM WATER MAIN PIPELINES AND RELATED FACILITIES AND APPURTENANCES THEREOF (THE "IMPROVEMENTS") AND GRANTOR RESERVES, FOR THE BENEFIT OF THE PUBLIC, OWNERSHIP OF THE IMPROVEMENTS, AS SET FORTH IN THE DEED RECORDED JANUARY 17, 2018 AS INSTRUMENT NO. 2018-0018653 OF OFFICIAL RECORDS.

NOTE: SAID LAND IS ALSO DESCRIBED AS FOLLOWS:

APN: 644-070-20

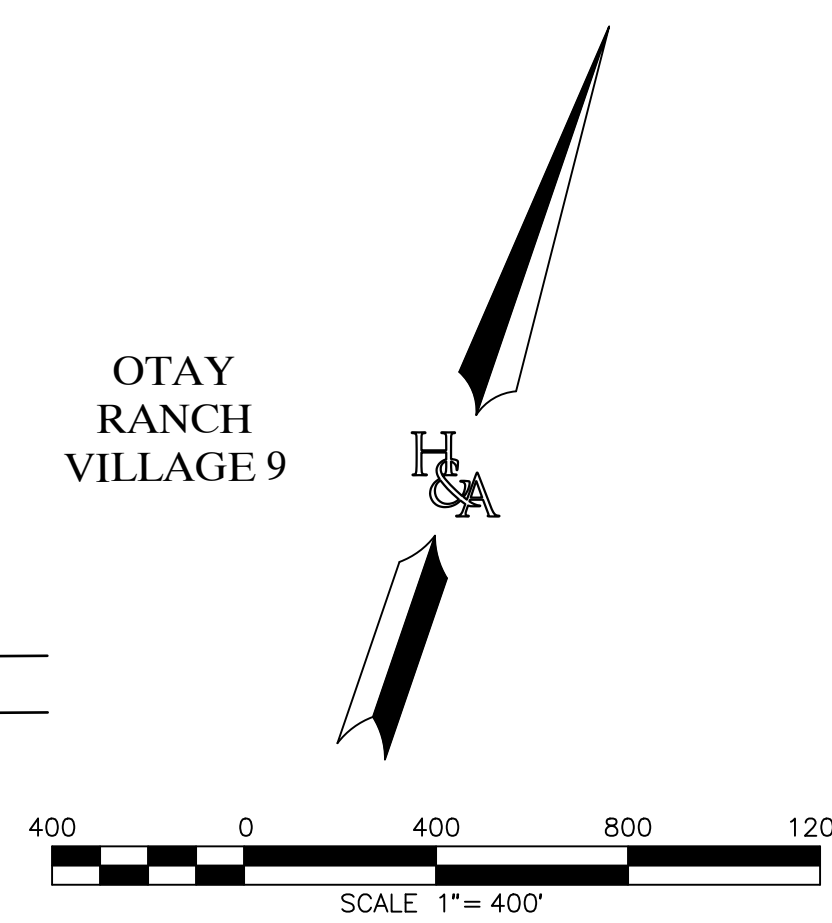
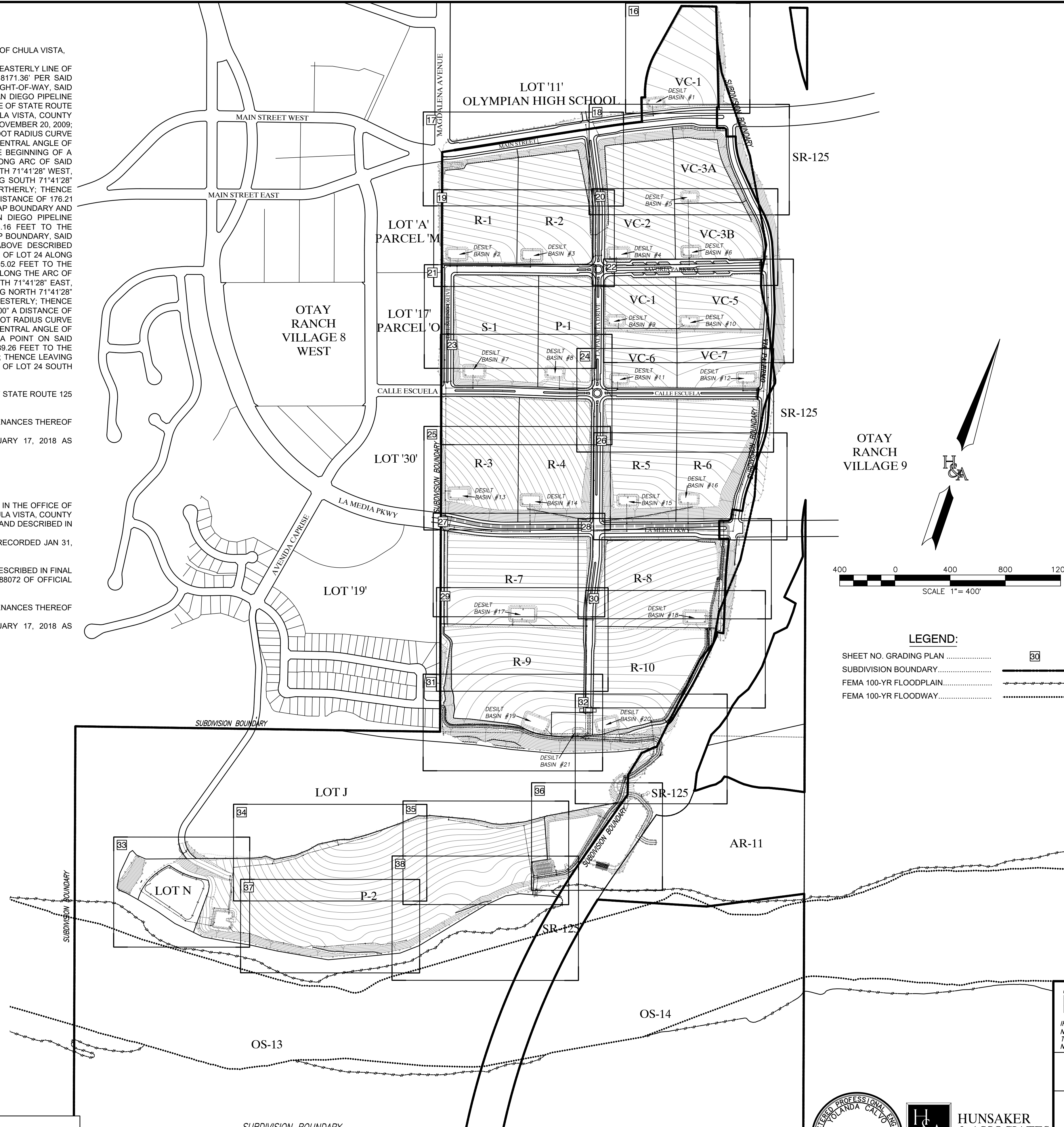
THAT PORTION OF LOT 24 OF OTAY RANCHO, ACCORDING TO MAP THEREOF NO. 862, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY ON FEBRUARY 7, 1900, IN THE CITY OF CHULA VISTA, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, LYING WITHIN THAT CERTAIN PARCEL OR STRIP OF LAND DESCRIBED IN THE DEED TO THE SOUTHERN CALIFORNIA MOUNTAIN WATER COMPANY RECORDED, JUNE 24, 1912 IN BOOK 570, PAGE 113 OF DEEDS, AND PER DEED RECORDED JAN 31, 1913 IN BOOK 598 PAGE 54 OF DEEDS RECORDS OF SAN DIEGO COUNTY, CALIFORNIA.

EXCEPTING THEREFROM THAT PORTION OF LOT 24 LYING WITHIN STATE HIGHWAY 125 AS DESCRIBED IN FINAL ORDER OF CONDEMNATION RECORDED DECEMBER 20, 2005 AS INSTRUMENT NO. 2005-01088072 OF OFFICIAL RECORDS.

ALSO EXCEPT THEREFROM WATER MAIN PIPELINES AND RELATED FACILITIES AND APPURTENANCES THEREOF (THE "IMPROVEMENTS") AND GRANTOR RESERVES, FOR THE BENEFIT OF THE PUBLIC, OWNERSHIP OF THE IMPROVEMENTS, AS SET FORTH IN THE DEED RECORDED JANUARY 17, 2018 AS INSTRUMENT NO. 2018-0018653 OF OFFICIAL RECORDS.

NOTE: SAID LAND IS SHOWN ON RECORD OF SURVEY MAP NO. 8989.

NOTE: SAID LAND IS SHOWN ON PARCEL MAP NO. 21215.



LEGEND:

SHEET NO. GRADING PLAN	80
SUBDIVISION BOUNDARY	---
FEMA 100-YR FLOODPLAIN	----
FEMA 100-YR FLOODWAY

ROUGH GRADING KEY MAP
SCALE: 1"=400'

UTILITY NOTE
ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.

AS BUILT

Signature: YOLANDA CALVO P.E. No. 61827
My Registration Expires: _____ Discipline: _____

UTILITY NOTE
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REFERENCE DRAWINGS		REVISIONS		REVISIONS		Designed By:	Drawn By:	Checked By:
C.V. DWG. NO.	DESCRIPTION	By	Date	App'd		A.C.G./P.A.A.	P.A.A.	Y.C.
C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS	SR-125 PLANS-11232304						
C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS						
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS						
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS						

HUNSAKER & ASSOCIATES
SAN DIEGO, INC.
PLANNING 9707 WAPLES STREET
ENGINEERING San Diego, Ca 92121
SURVEYING PH8585558-4500 FAX8585558-1414

REGISTERED PROFESSIONAL ENGINEER
No. 61827
STATE OF CALIFORNIA
CIVIL

THE CITY OF CHULA VISTA

INDEX SHEET FOR OTAY RANCHO VILLAGE 8 EAST
CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT

ACCELA NO.: XXXX
PROJECT NO.: XXXX
TOTAL SHEETS: 90
1796 - 6340
NAD83 COORDINATES
154 - 1773
LAMBERT COORDINATES

Approved: _____
By: _____ Principal Civil Engineer

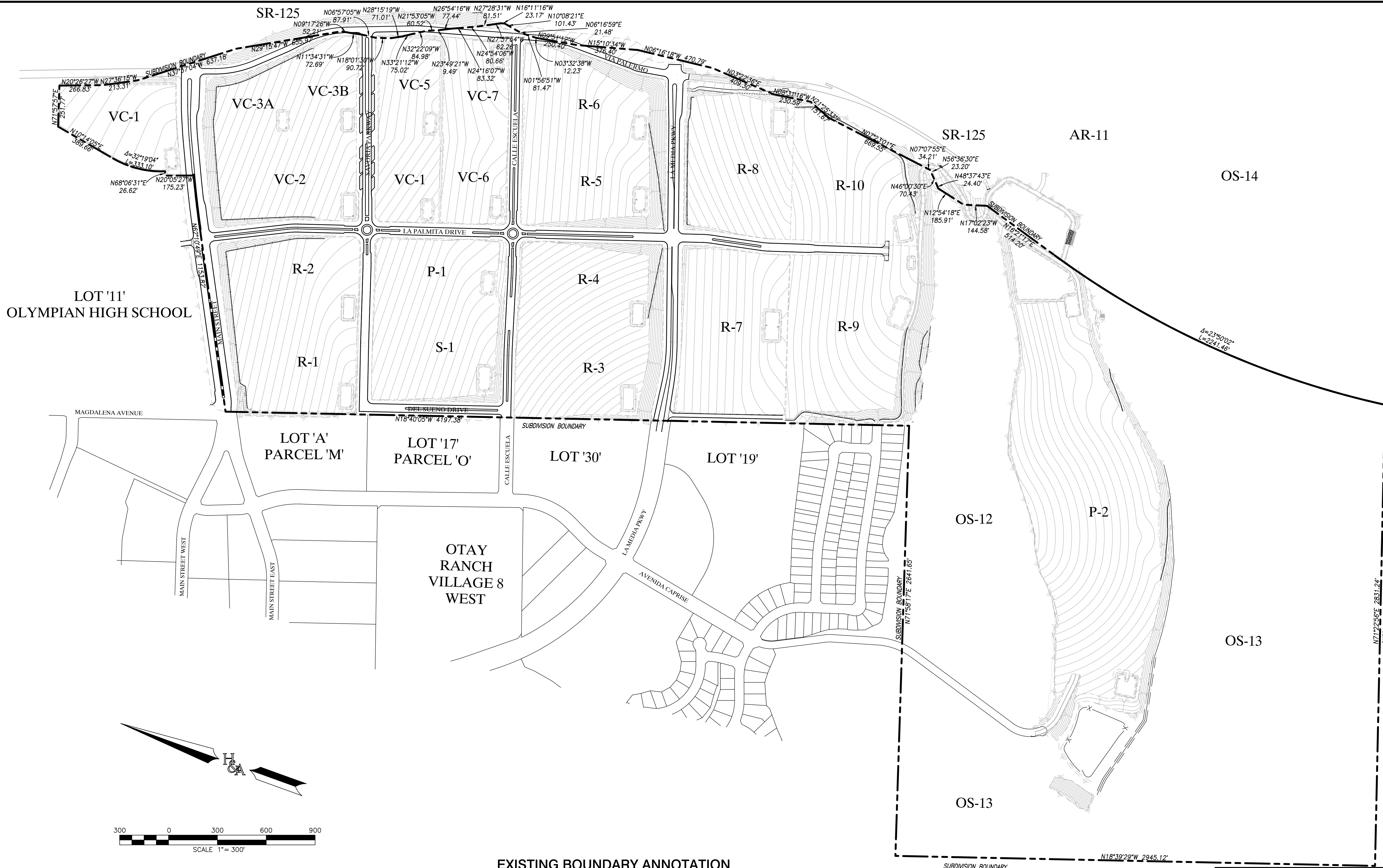
Submitted: _____
By: _____

Planning: _____ Landscape: _____

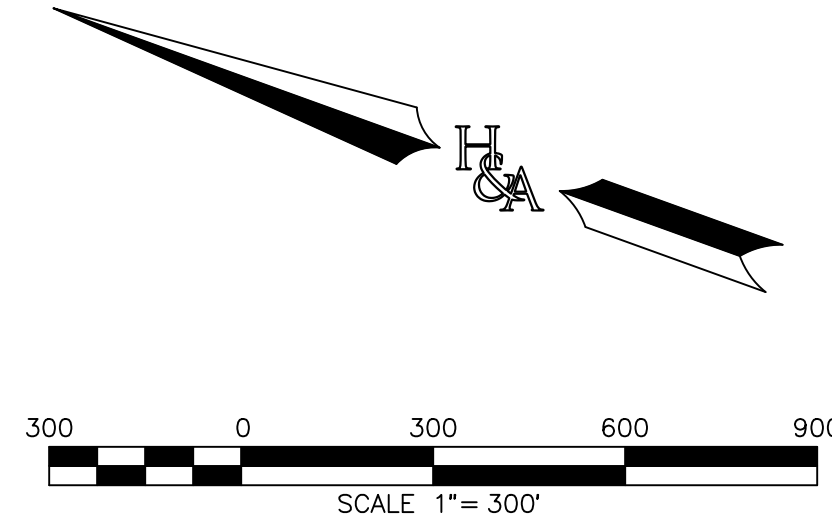
AS BUILT

CONTRACTOR: _____
INSPECTOR: _____ DATE COMPLETED: _____

DRAWING NO. **G004**



LOT '11'
OLYMPIAN HIGH SCHOOL



EXISTING BOUNDARY ANNOTATION
SCALE: 1"=300'

OS-14

AR-11

SR-125

OS-12

OS-13

OS-13

**BOUNDARY ANNOTATION SHEET FOR
OTAY RANCH VILLAGE 8 EAST**

CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT

ACCELA NO.: XXXX

Approved: _____

PROJECT NO.: XXXX

By: _____
Principal Civil Engineer

TOTAL SHEETS: 90

Submitted: _____

1796 - 6340

By: _____

NIAD83 COORDINATES

Planning: _____ Landscape: _____

154 - 1773

LAMBERT COORDINATES

AS BUILT

DRAWING NO.

CONTRACTOR: _____
INSPECTOR: _____ DATE COMPLETED: _____

XXXXX.XXX

G005

AS BUILT		UTILITY NOTE	
SIGNATURE YOLANDA CALVO	Date P.E. No. 61827	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
My Registration Expires	Discipline		
REFERENCE DRAWINGS		REVISIONS	
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C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS	

REVISIONS	By	Date	App'd	REVISIONS	By	Date	App'd

Designed By: A.C.G./P.A.A.	Drawn By: P.A.A.	Checked By: Y.C.
Plans Prepared Under Supervision Of:		Date:
YOLANDA CALVO		R.C.E. No. 61827

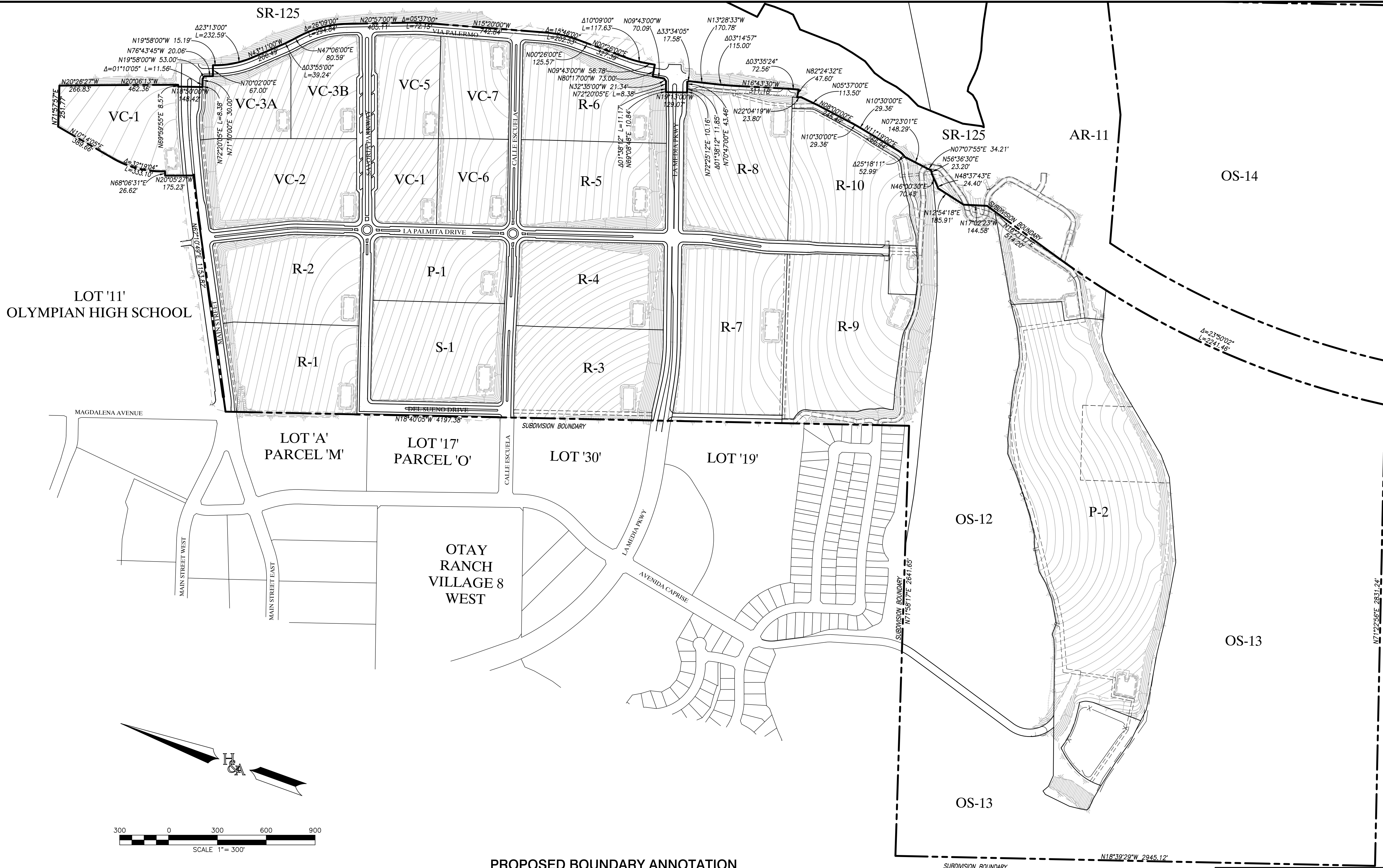
**THE CITY OF
CHULA VISTA**



**HUNSAKER & ASSOCIATES
SAN DIEGO, INC.**
PLANNING 9707 WAPLES STREET
ENGINEERING San Diego, Ca 92121
SURVEYING PH8585558-4500 FX8585558-1414

ROUGH GRADING PLANS FOR
OTAY RANCH VILLAGE 8 EAST

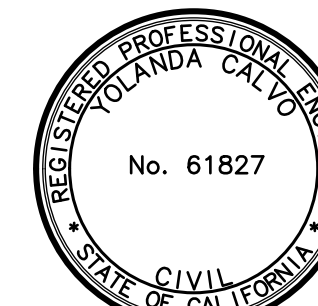
CV 0920-0005-0001-0001
W.O. NO. 2395-0079



PROPOSED BOUNDARY ANNOTATION

SCALE: 1"=300'

AS BUILT		UTILITY NOTE	
Signature: <u>YOLANDA CALVO</u>	Date: _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
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My Registration Expires: _____	Discipline: _____		
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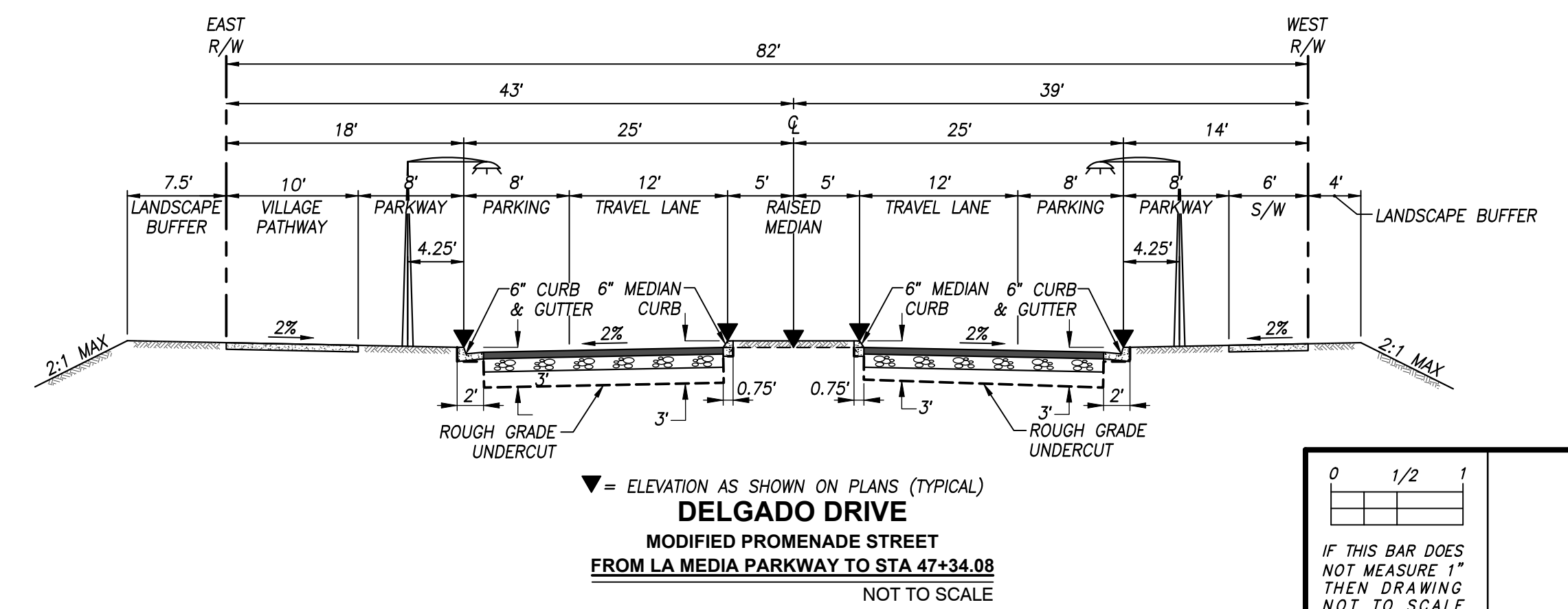
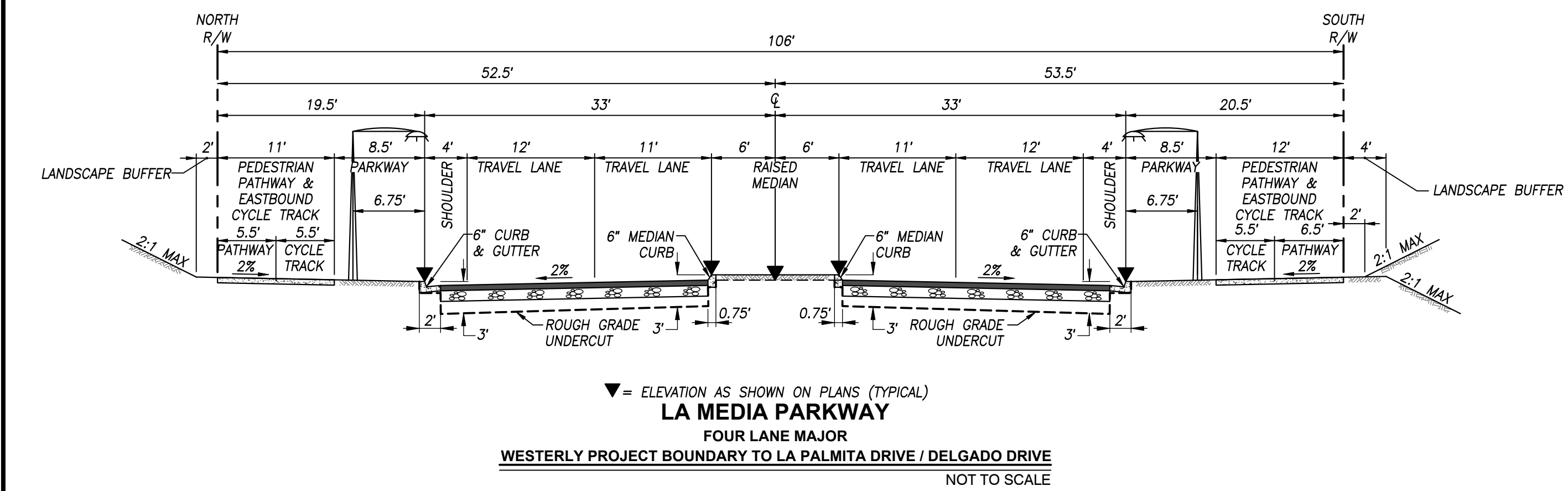
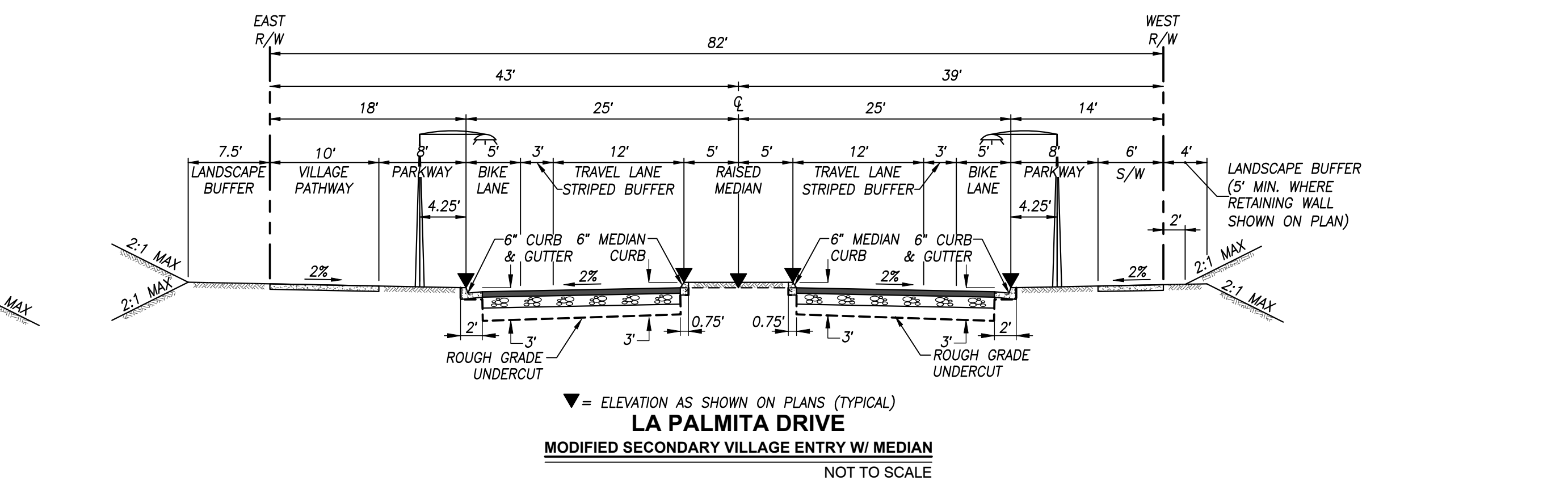
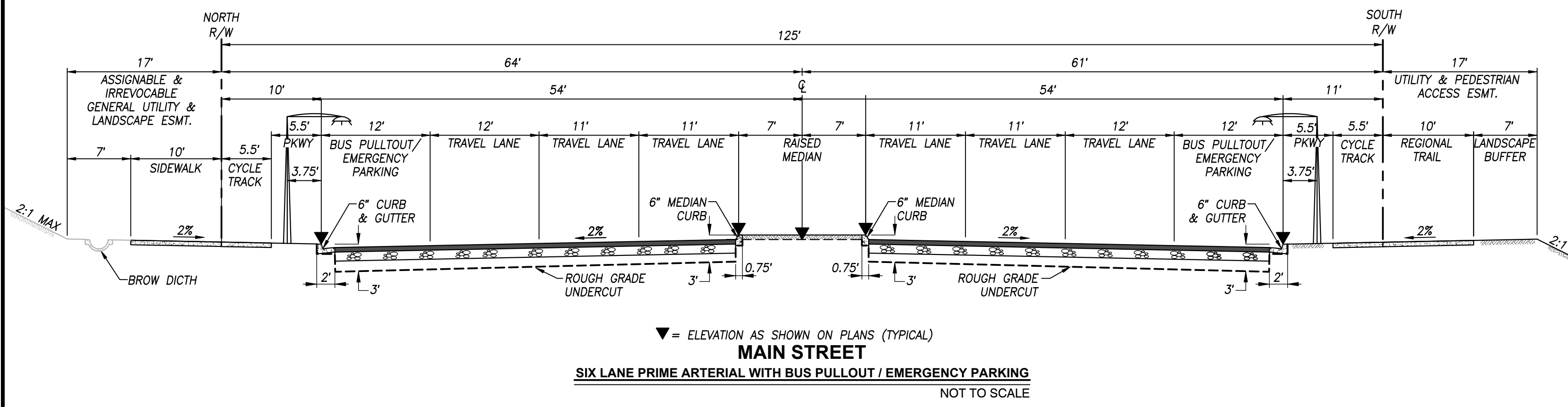
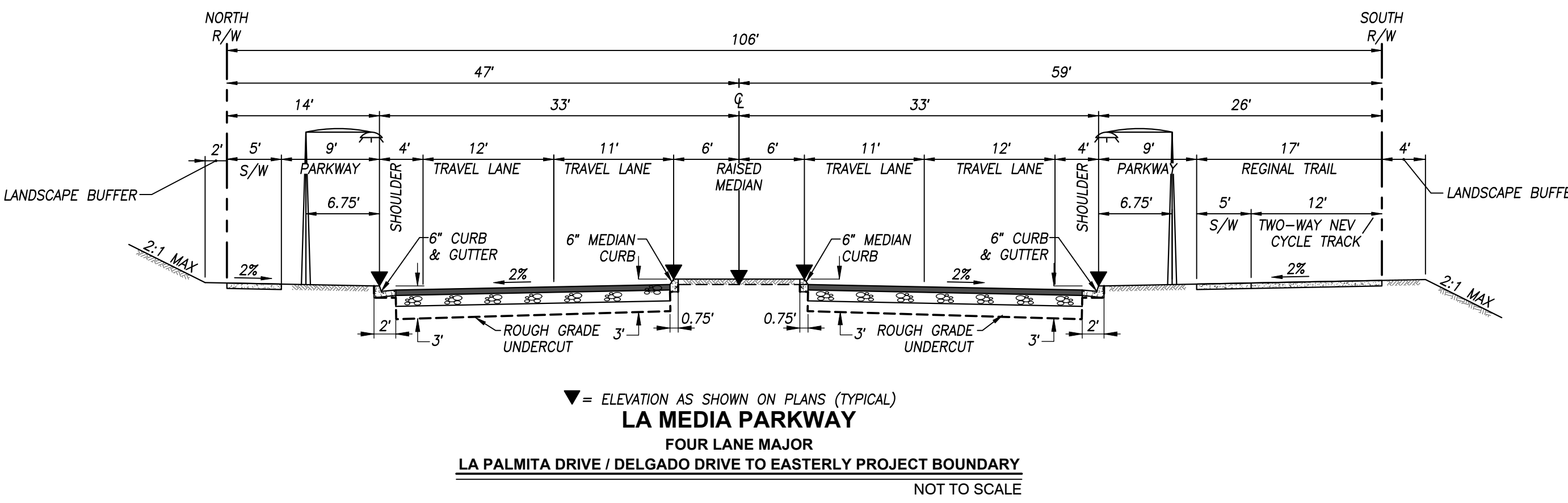
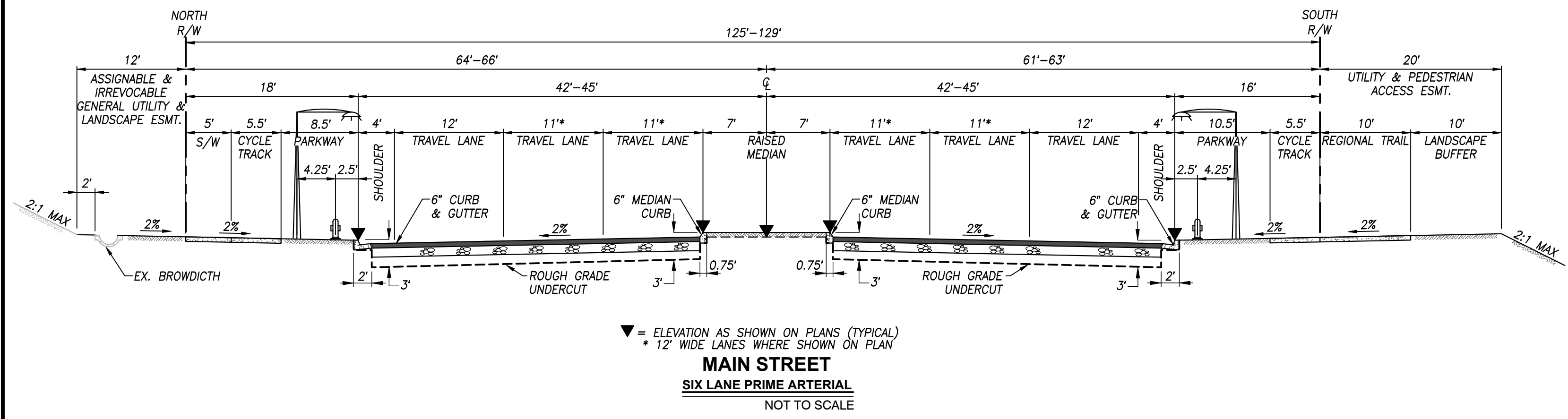
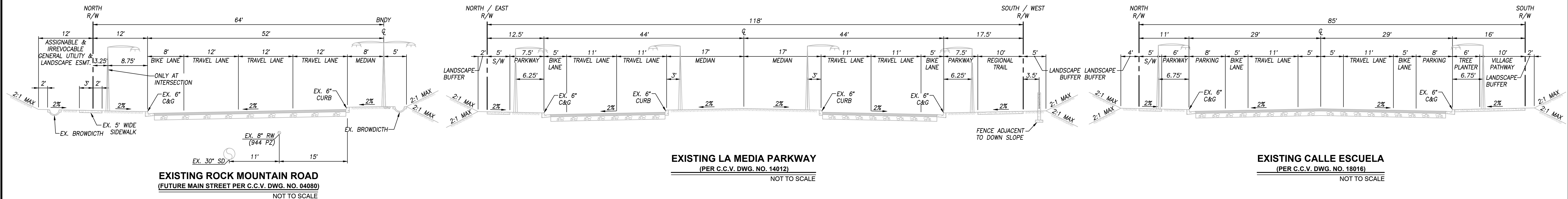


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SAN DIEGO, INC.
PLANNING 9707 WAPLES STREET
ENGINEERING San Diego, Ca 92121
SURVEYING PH858558-4500 FX858558-1414

THE CITY OF CHULA VISTA

BOUNDARY ANNOTATION SHEET FOR OTAY RANCH VILLAGE 8 EAST	
CHULA VISTA TRACT NO. 22-0005	
DEVELOPMENT SERVICES DEPARTMENT	
ACCELA NO.: XXXX	PROJECT NO.: XXXX
TOTAL SHEETS: 90	1796 - 6340
154 - 1773	LAMBERT COORDINATES
AS BUILT	
DRAWING NO. G006	CONTRACTOR: XXXXX.XXX
INSPECTOR: _____	DATE COMPLETED: _____

ROUGH GRADING PLANS FOR OTAY RANCH VILLAGE 8 EAST



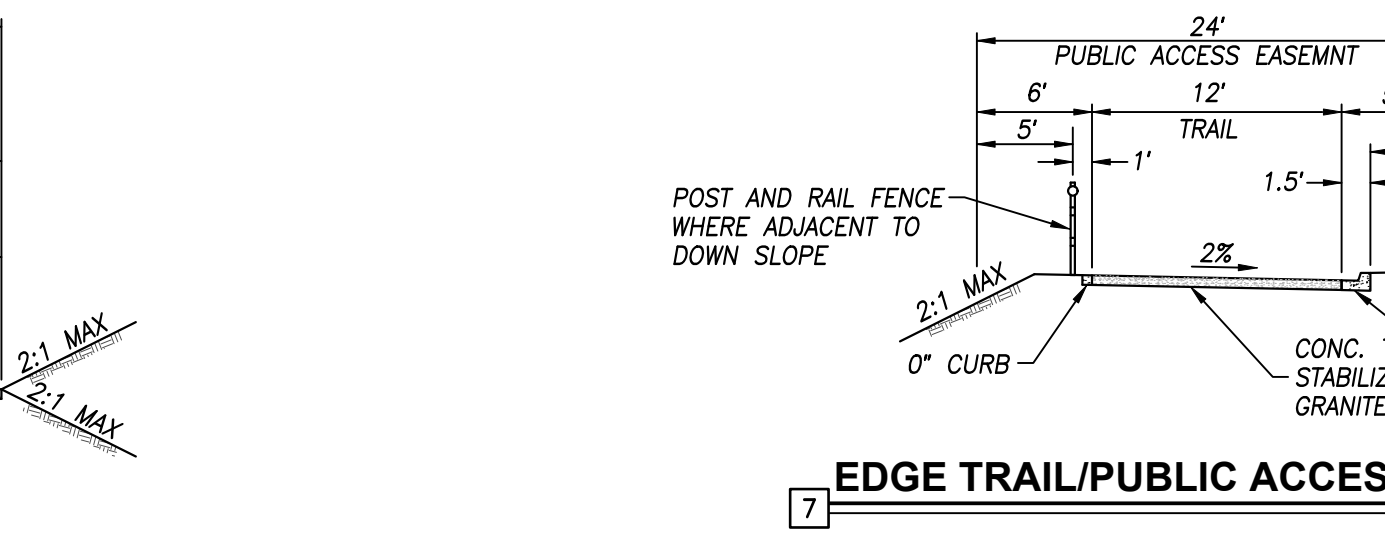
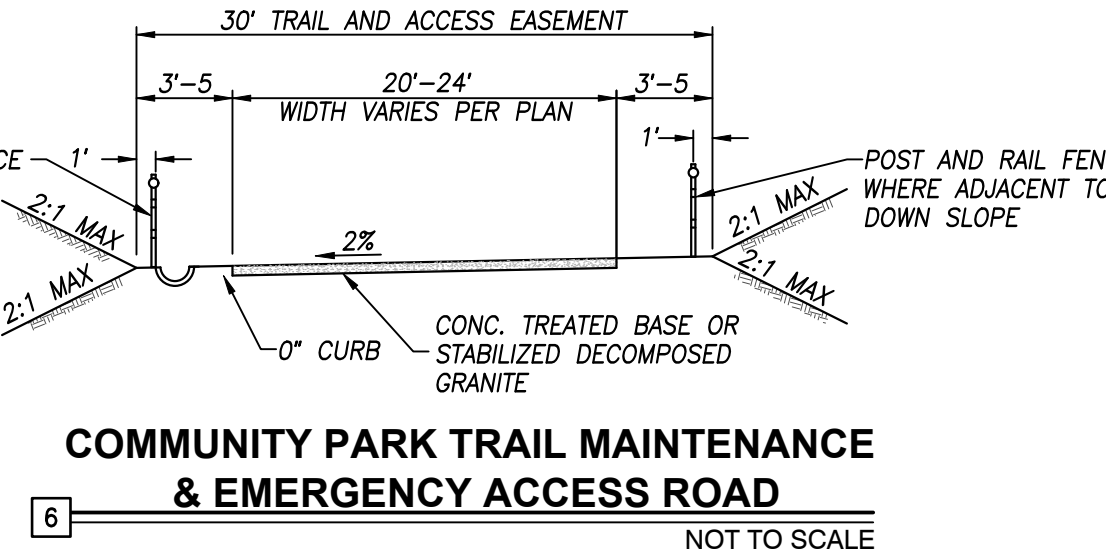
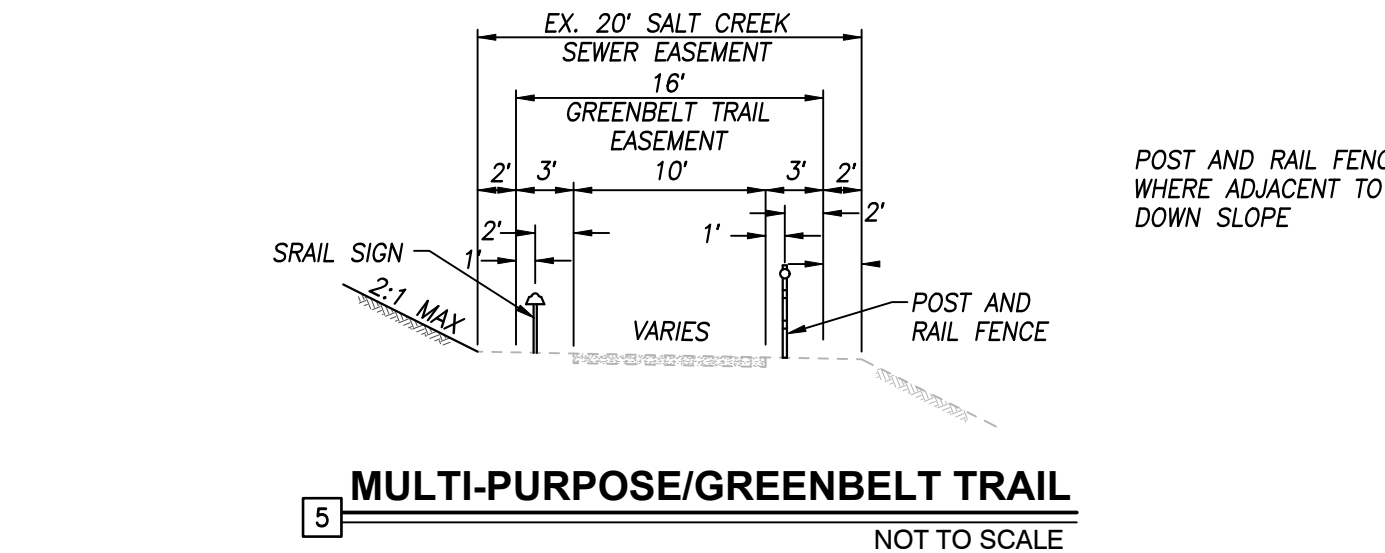
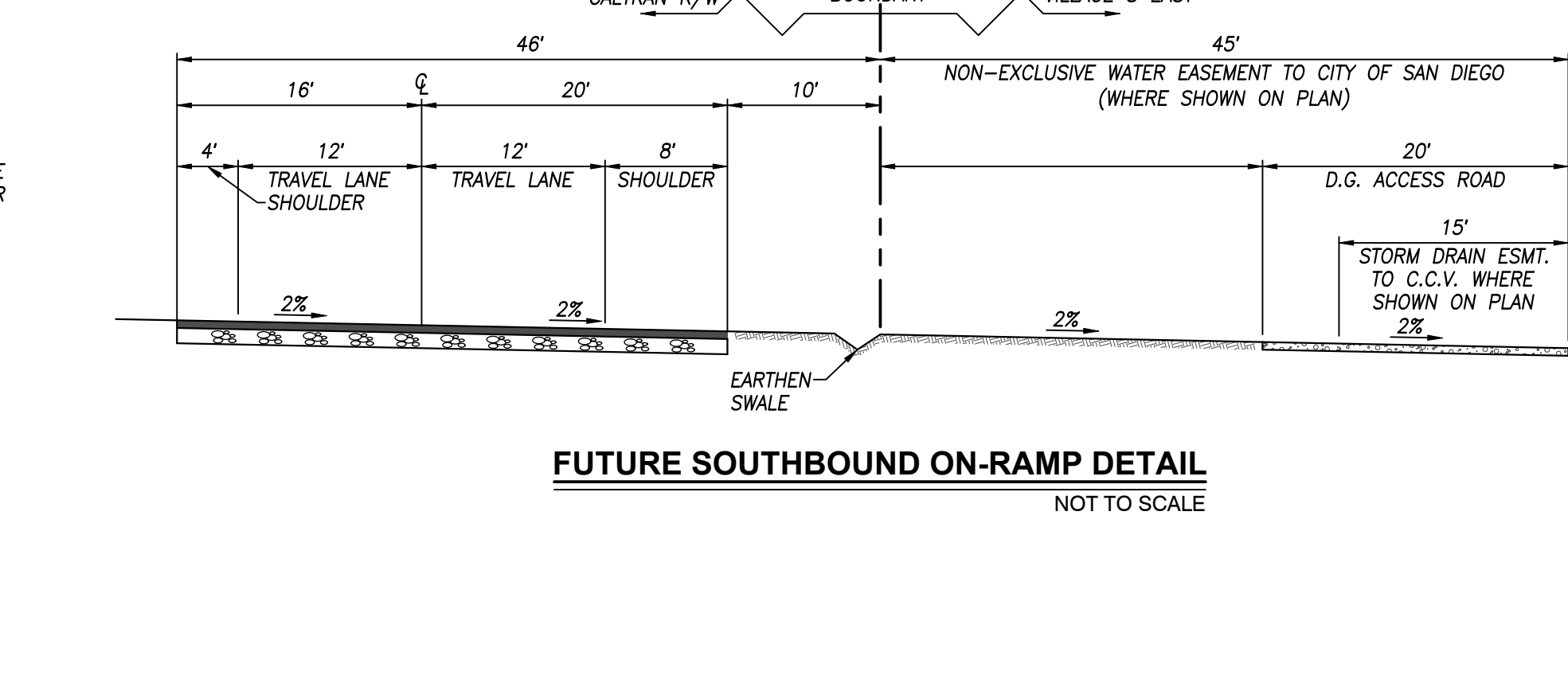
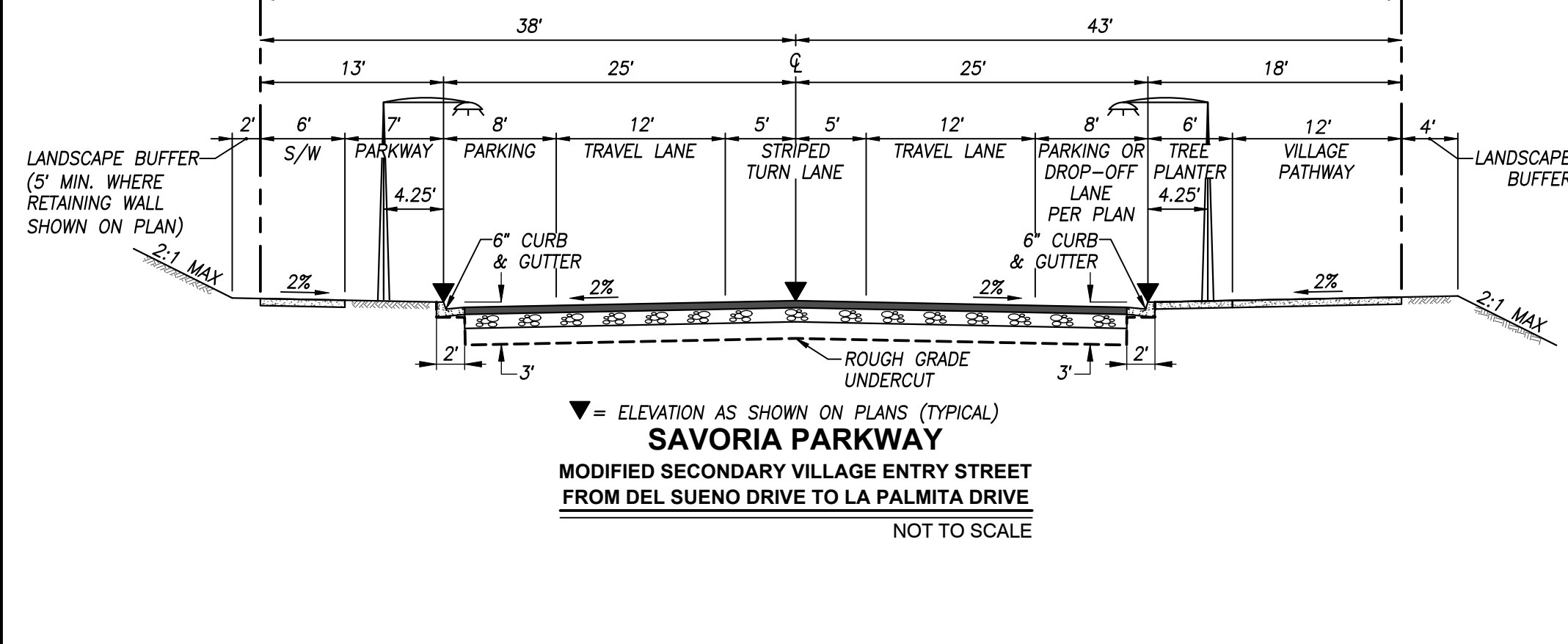
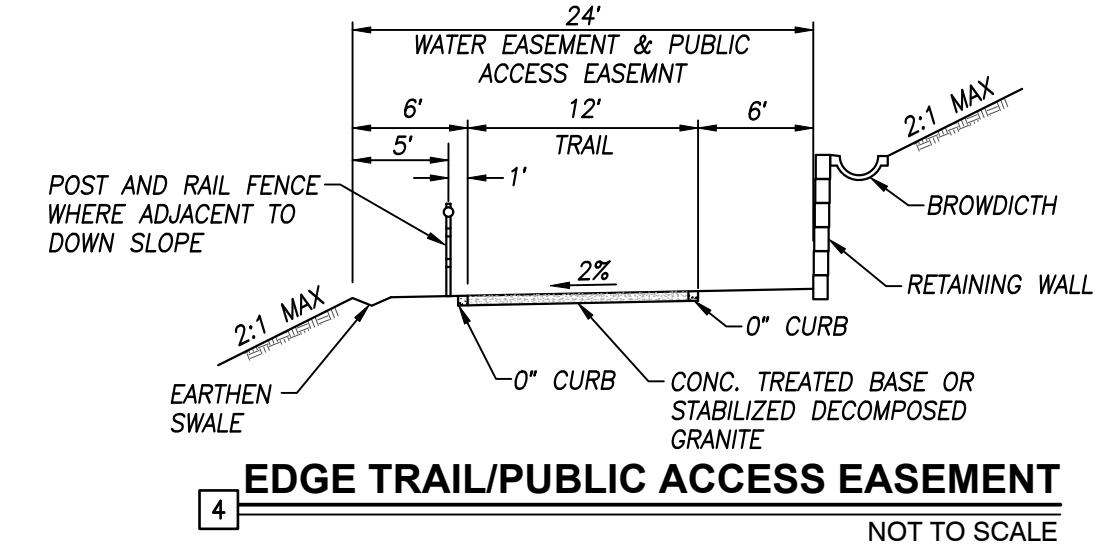
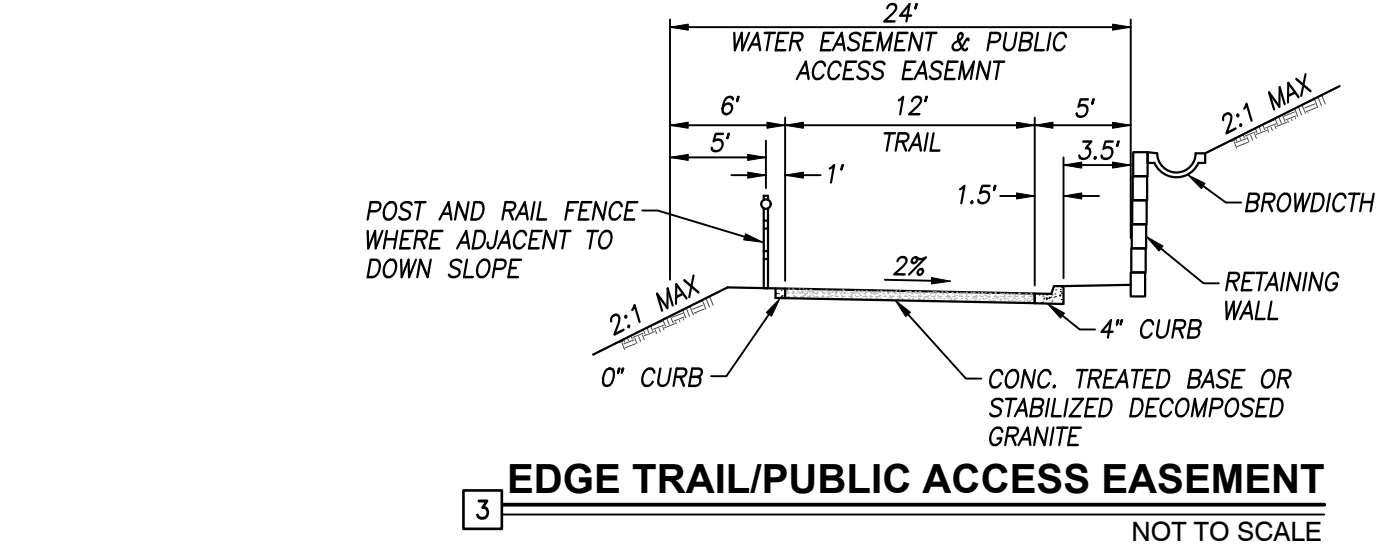
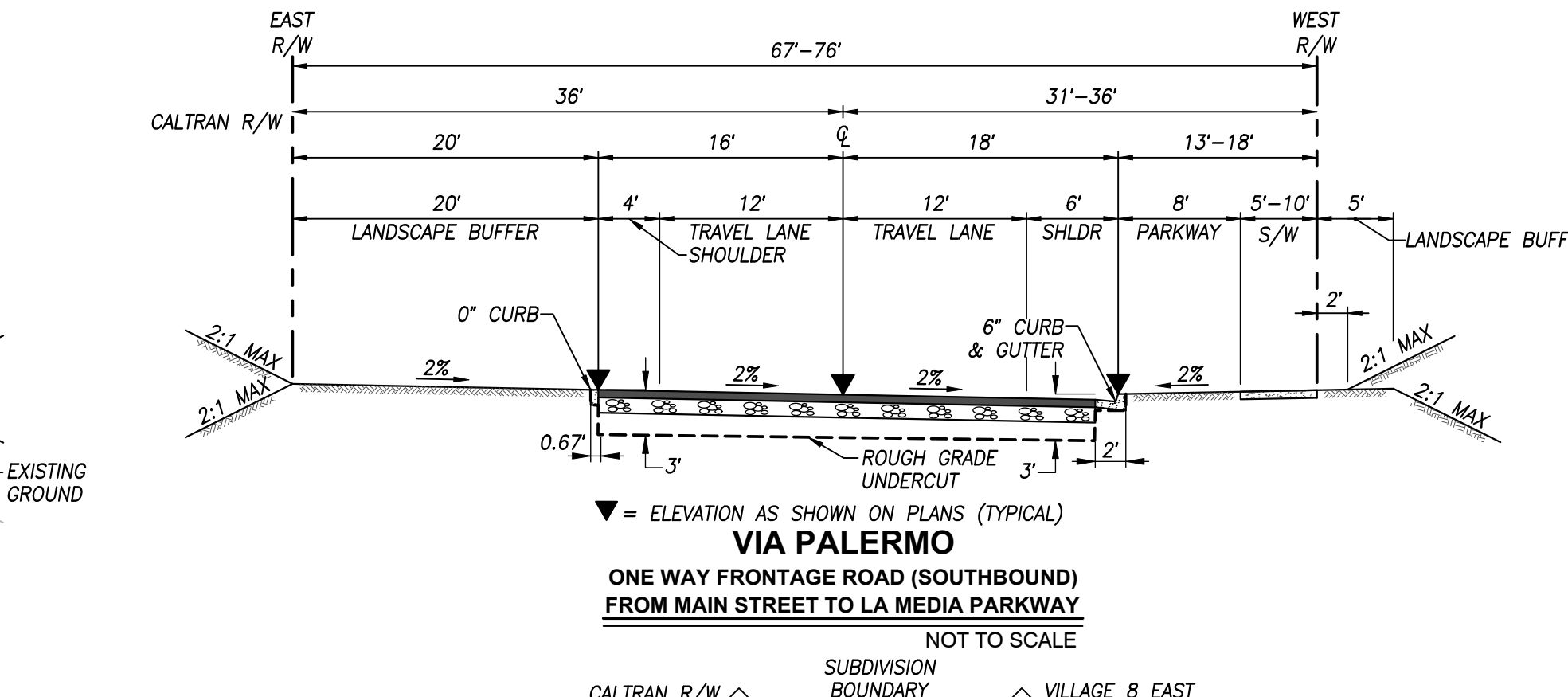
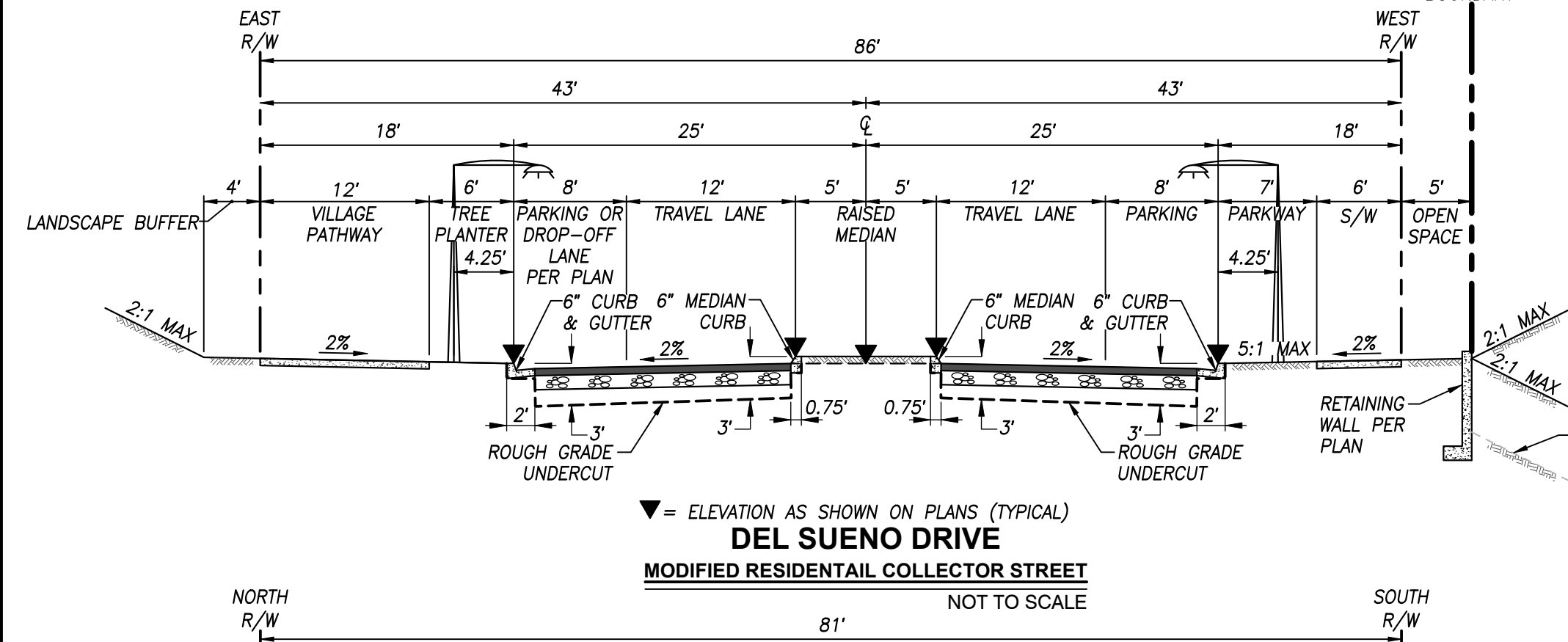
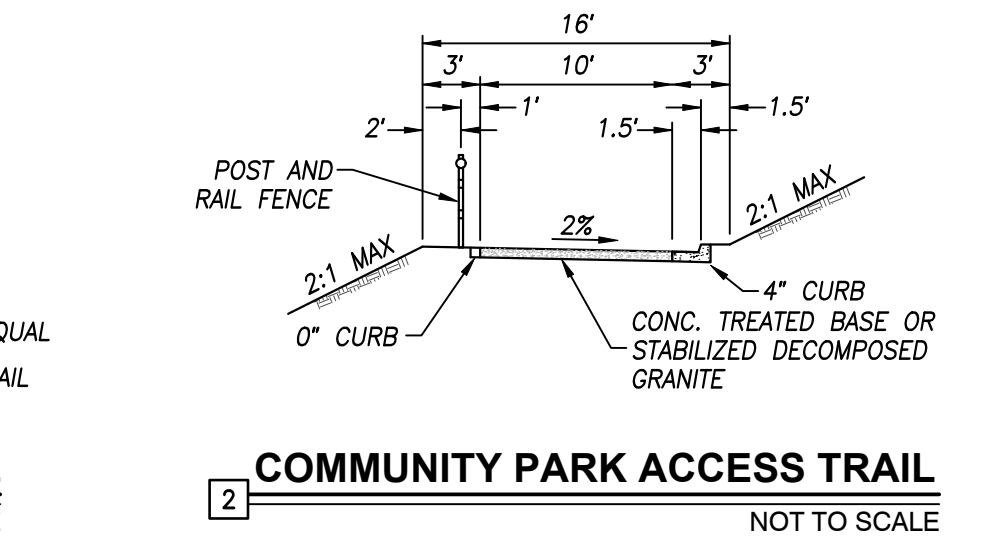
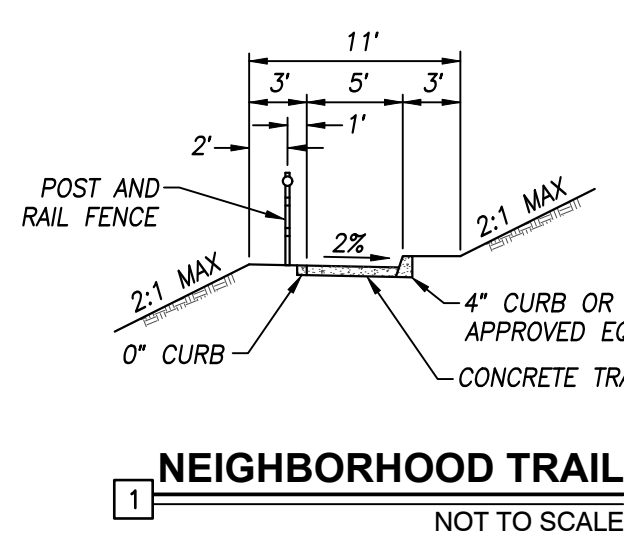
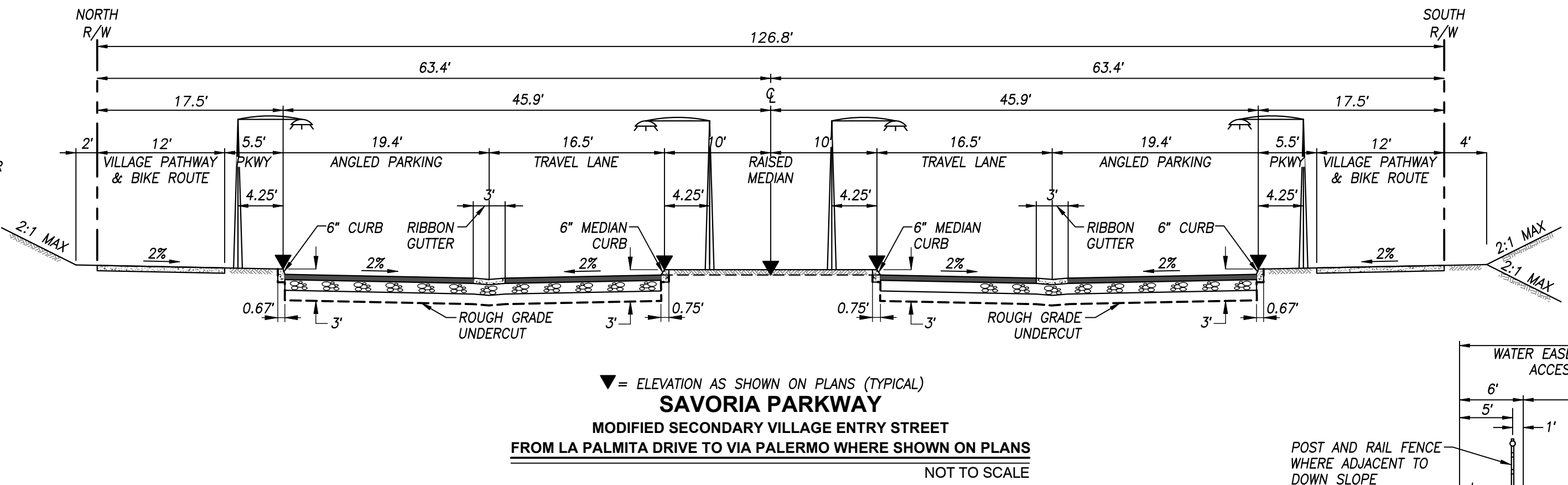
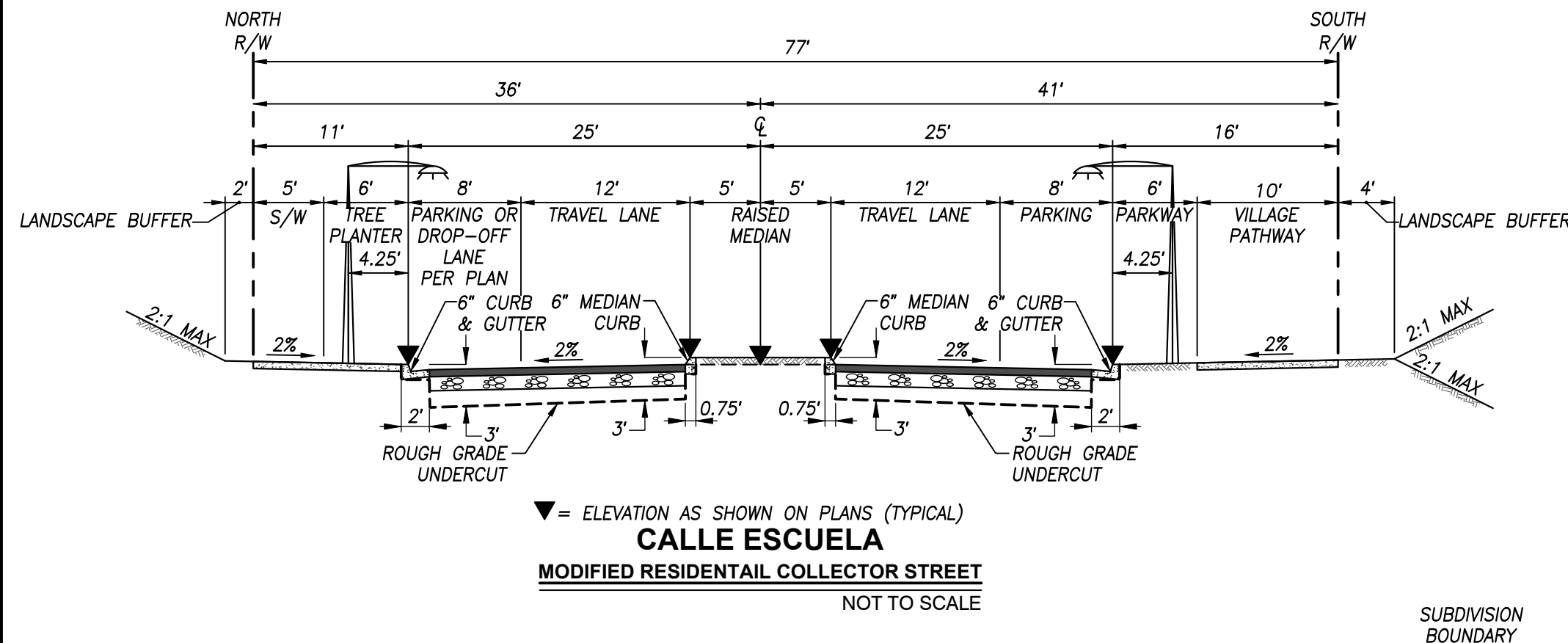
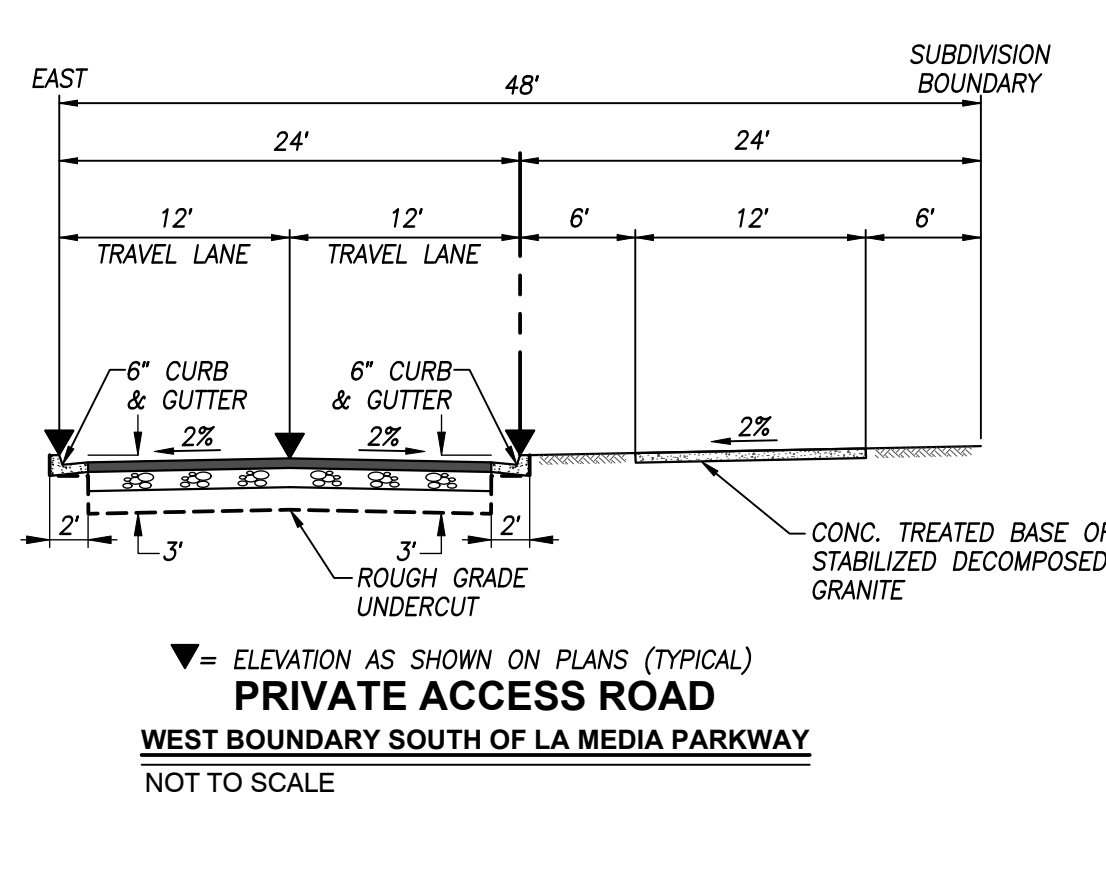
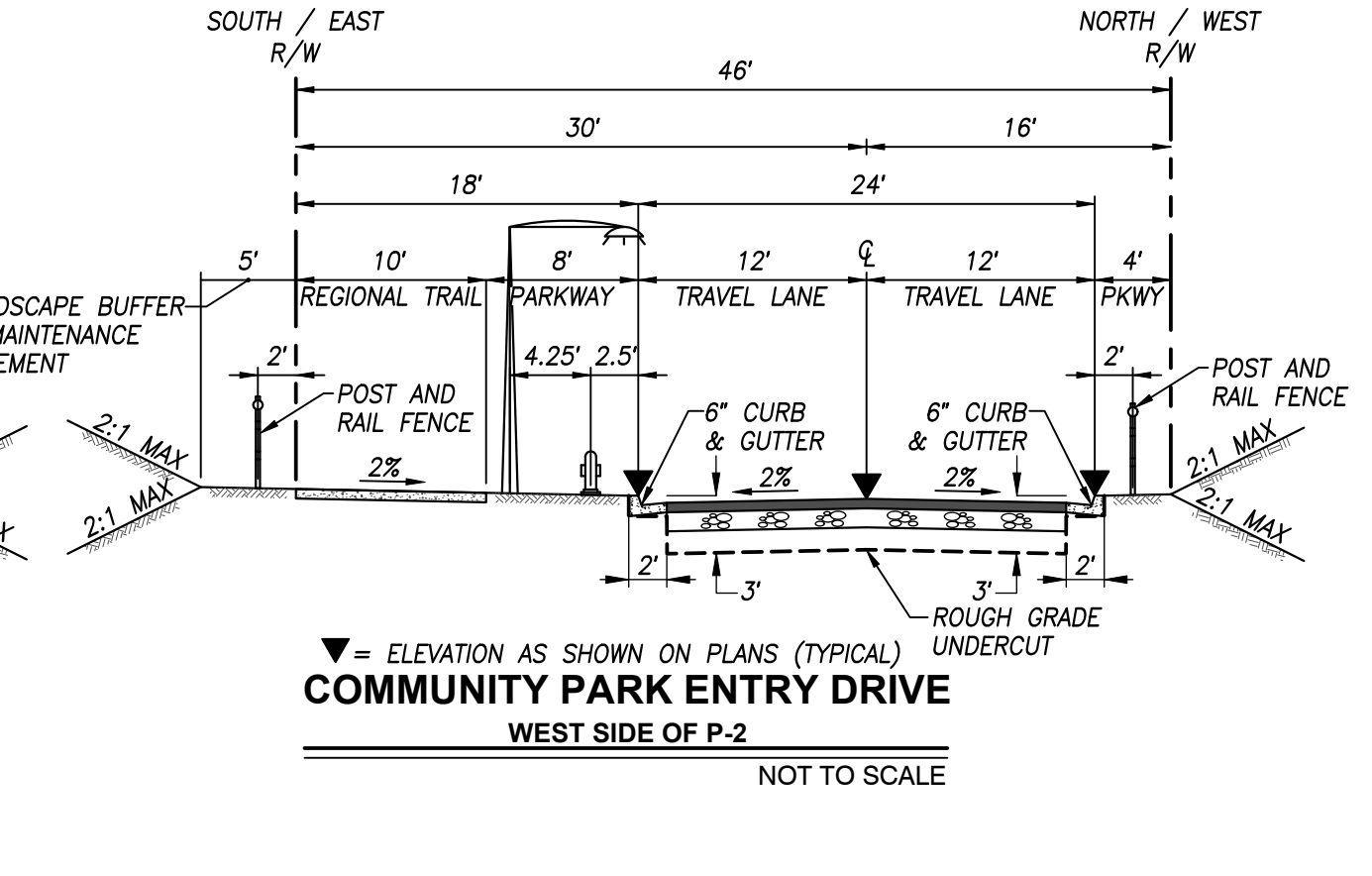
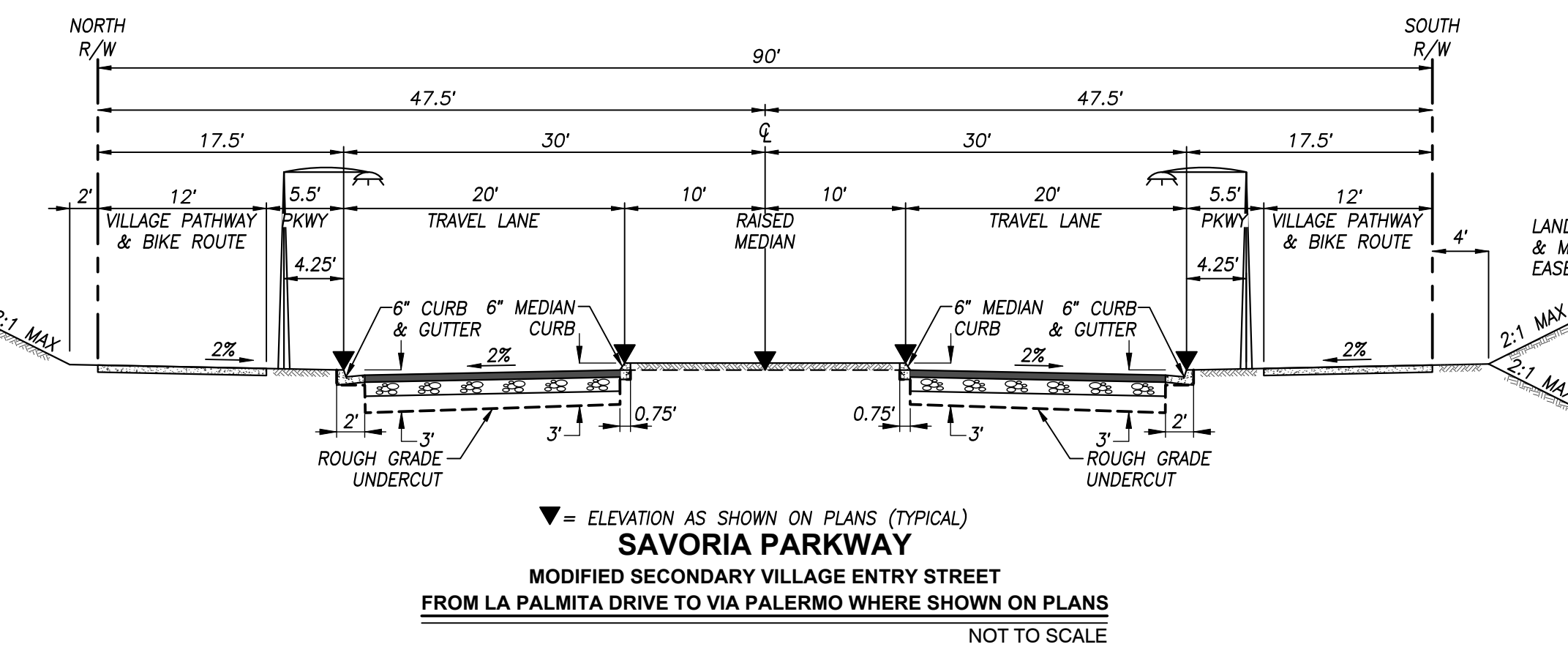
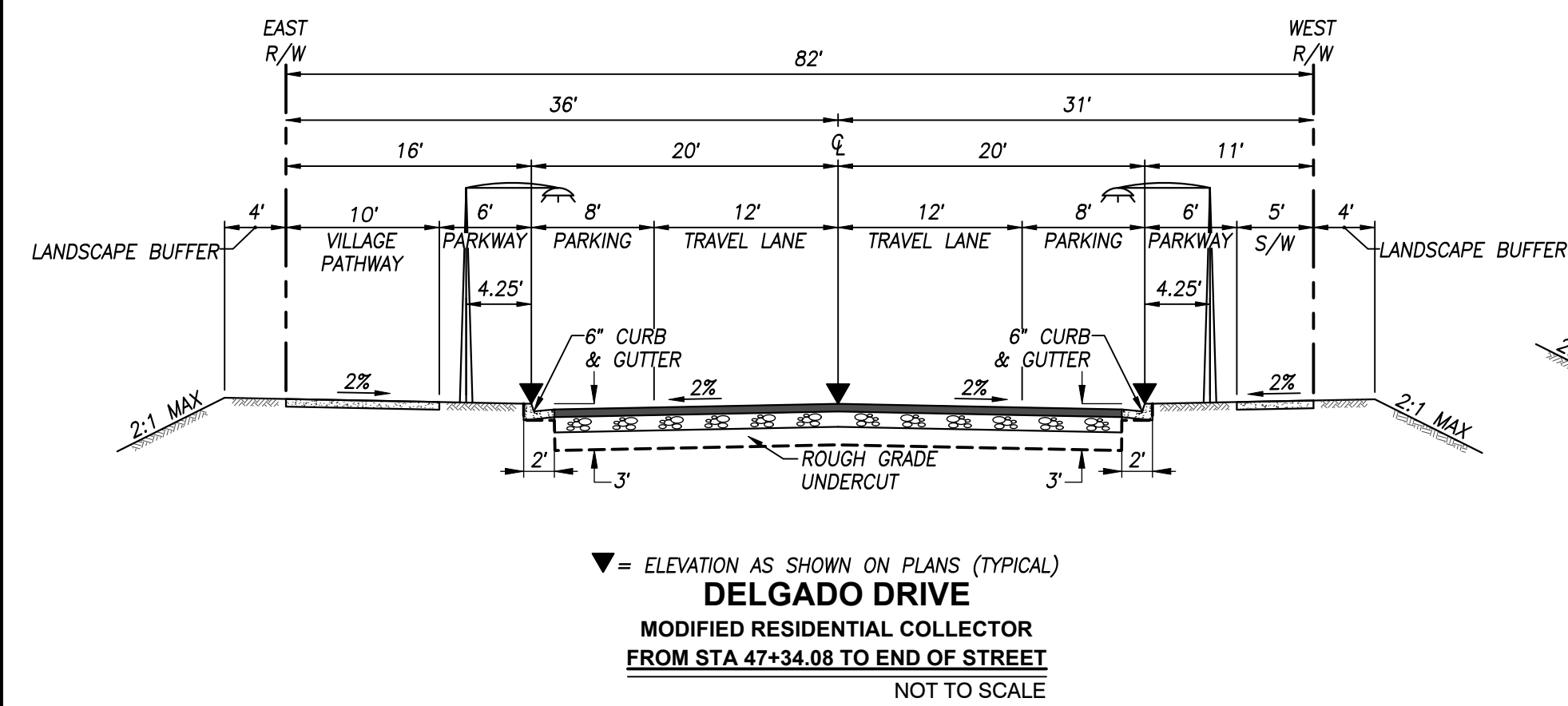
STREET SECTIONS SHEET FOR OTAY RANCH VILLAGE 8 EAST	
CHULA VISTA TRACT NO. 22-0005	
DEVELOPMENT SERVICES DEPARTMENT	
ACCELA NO.: XXXX	PROJECT NO.: XXXX
Approved: _____	
By: _____ Principal Civil Engineer	
Submitted: _____	
By: _____	
Planning: _____	
Landscape: _____	
TOTAL SHEETS: 90	
1796 - 6340	
NAD83 COORDINATES	
154 - 1773	
LAMBERT COORDINATES	
DRAWING NO. G007	
CONTRACTOR: _____	
INSPECTOR: _____	
DATE COMPLETED: _____	

AS BUILT	UTILITY NOTE
SIGNATURE: YOLANDA CALVO P.E. No. 61827 My Registration Expires: _____ Discipline: _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.
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THE CITY OF CHULA VISTA

ROUGH GRADING PLANS FOR OTAY RANCH VILLAGE 8 EAST



AS BUILT		UTILITY NOTE	
Signature: YOLANDA CALVO	Date: _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
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C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS	

By	Date	App'd	REVISIONS	By	Date	App'd

Designed By: A.C.G./P.A.A.	Drawn By: P.A.A.	Checked By: Y.C.
Plans Prepared Under Supervision Of: _____ Date: _____		
YOLANDA CALVO R.C.E. No. 61827		

THE CITY OF CHULA VISTA

STREET SECTIONS SHEET FOR OTAY RANCH VILLAGE 8 EAST
CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT

ACCELA NO.: XXXX
PROJECT NO.: XXXX
TOTAL SHEETS: 90
1796 - 6340
NAD83 COORDINATES
154 - 1773
LAMBERT COORDINATES

Approved: _____
By: _____ Principal Civil Engineer

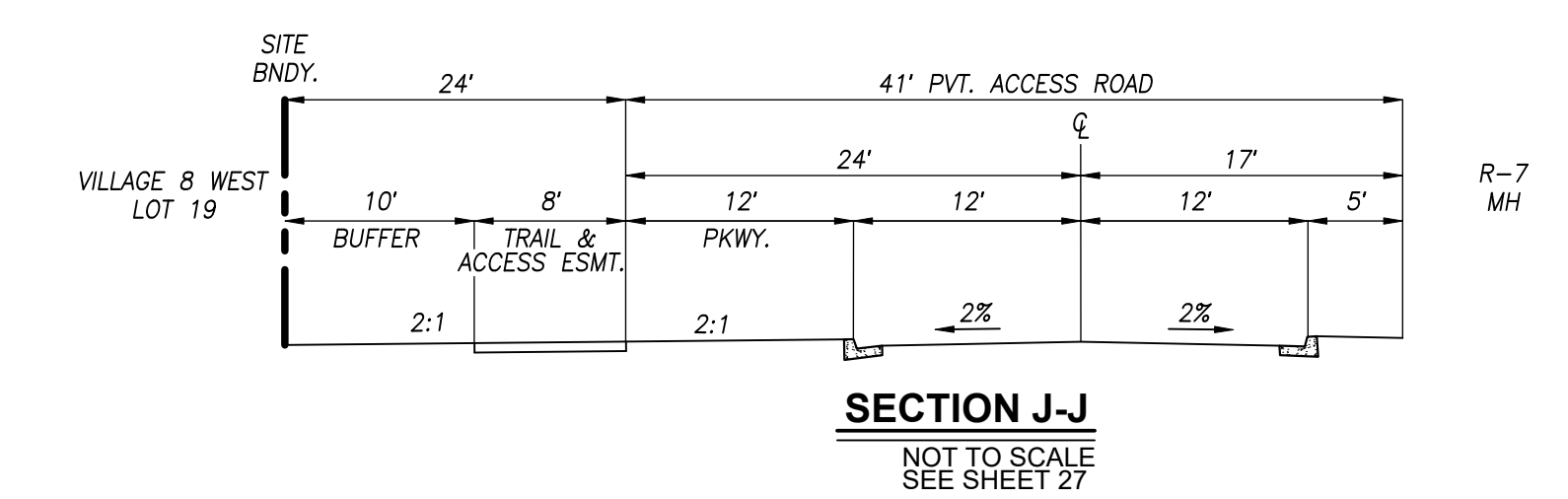
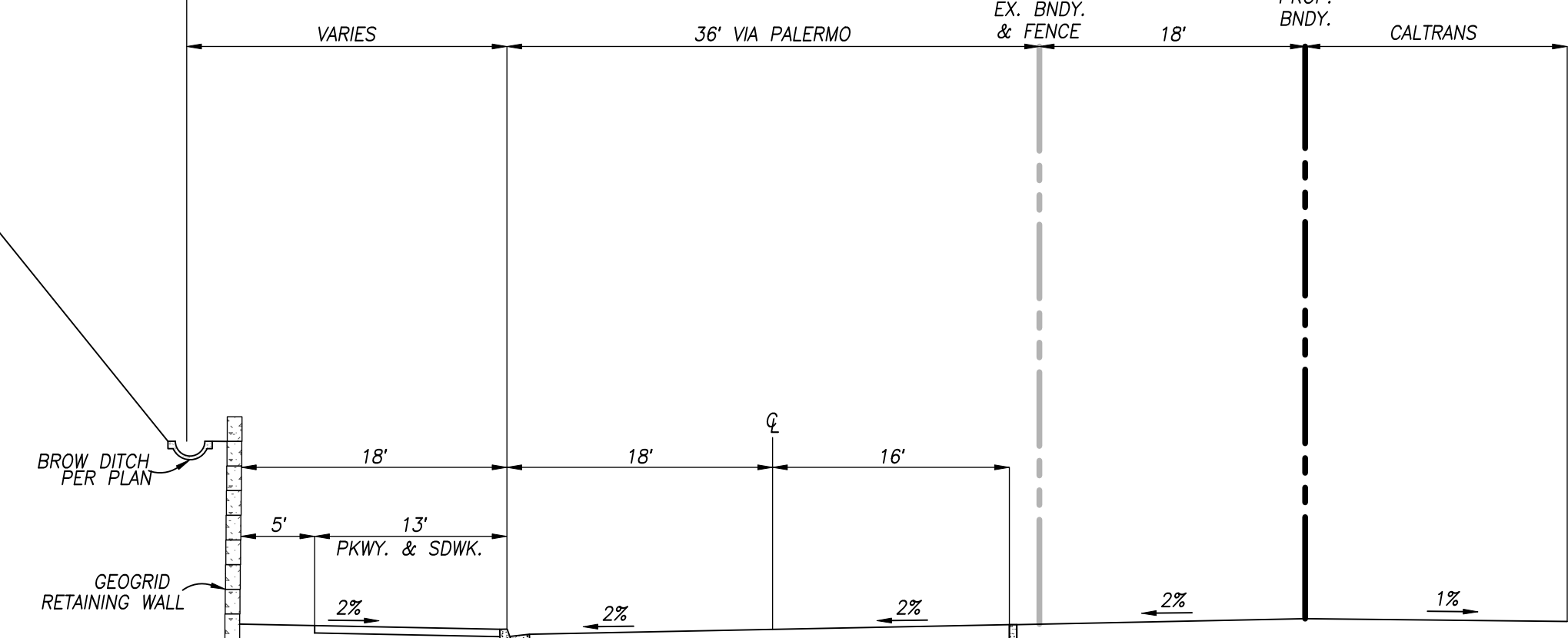
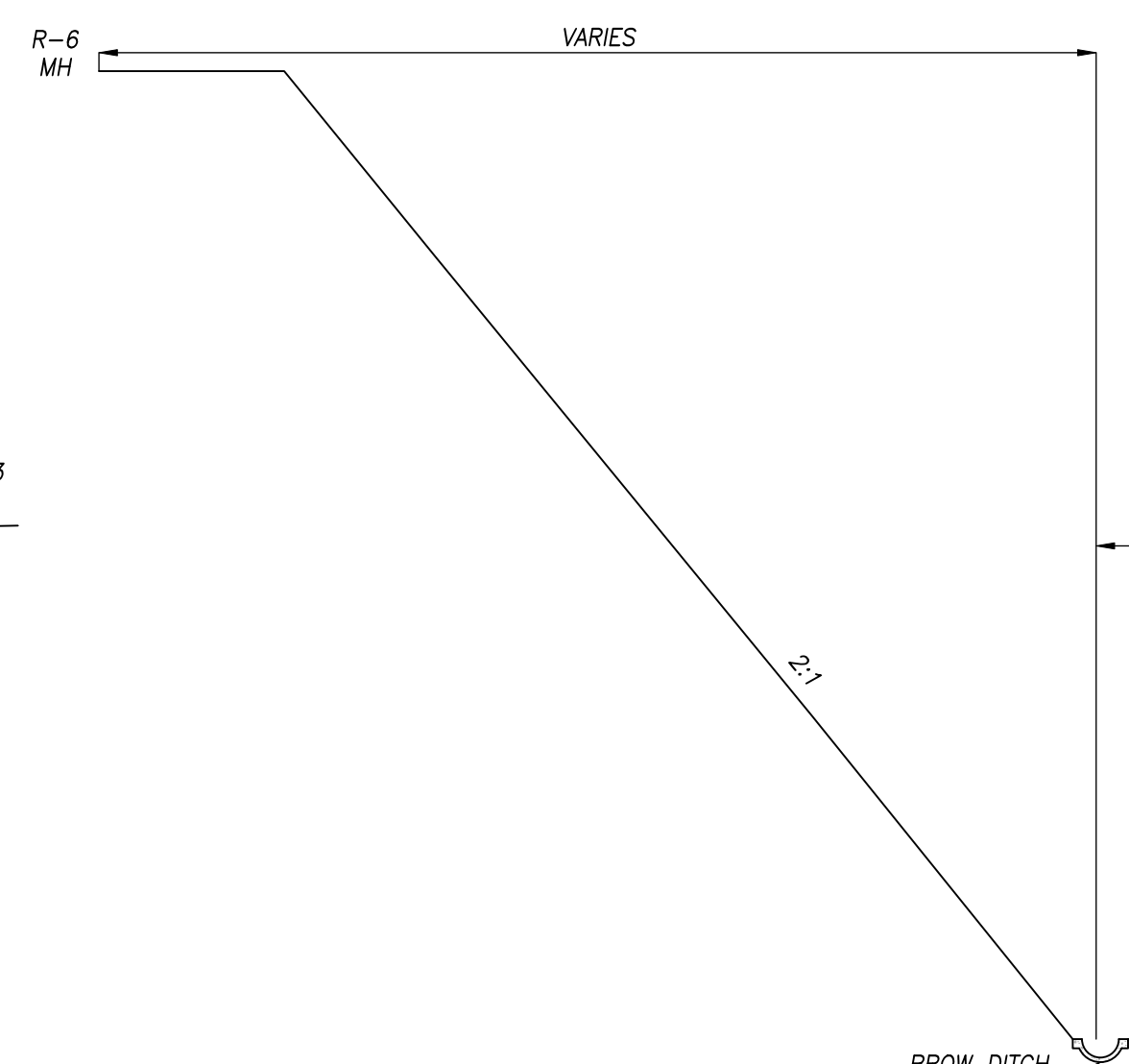
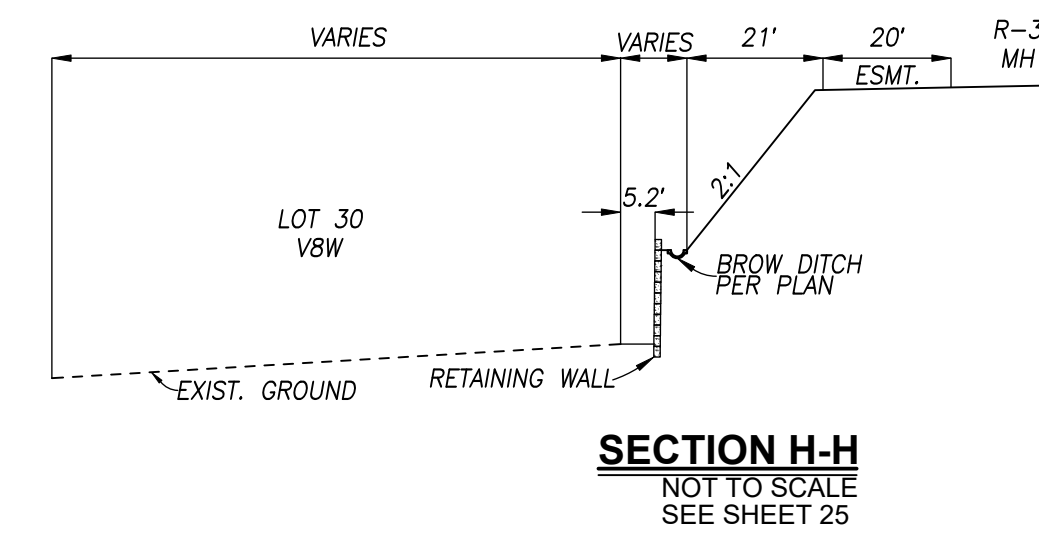
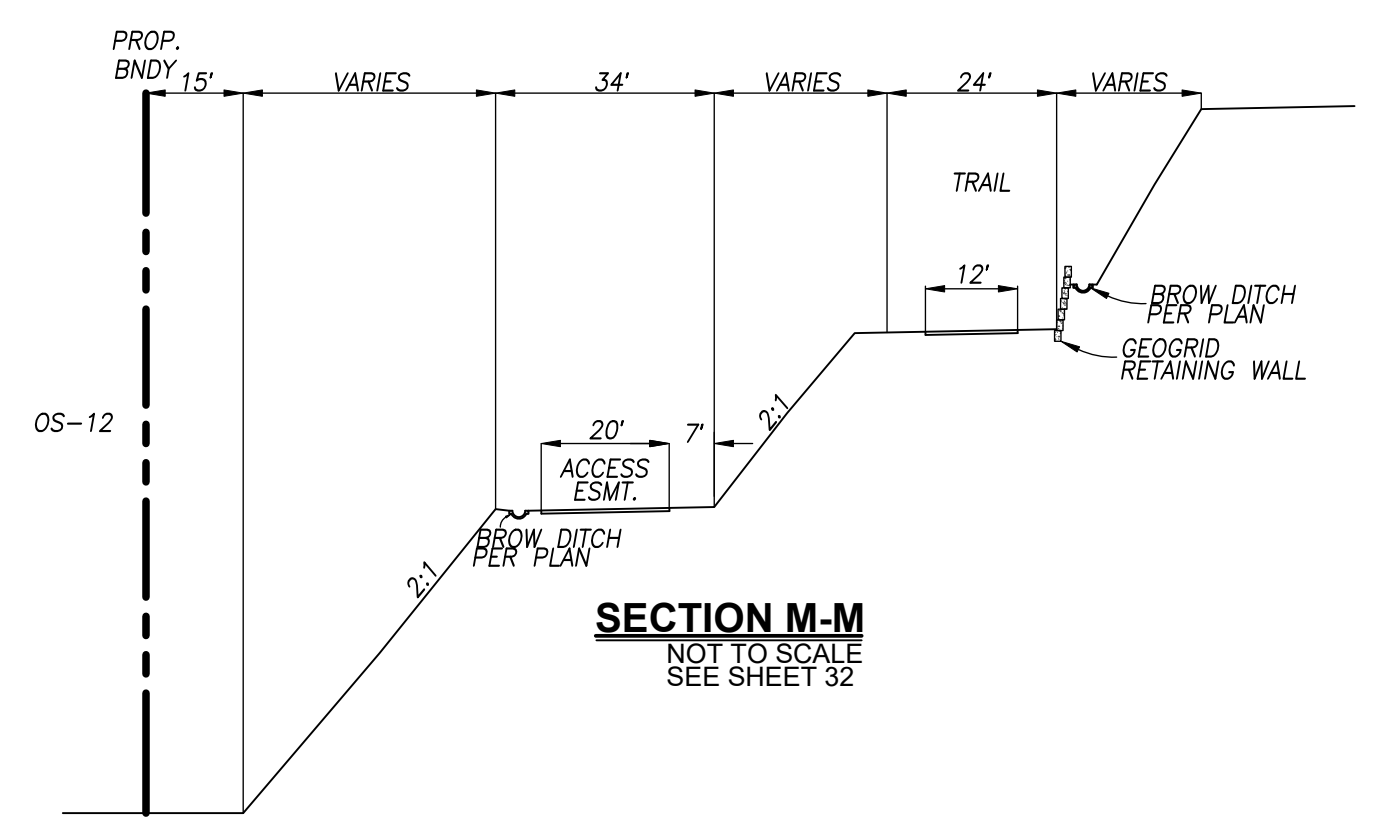
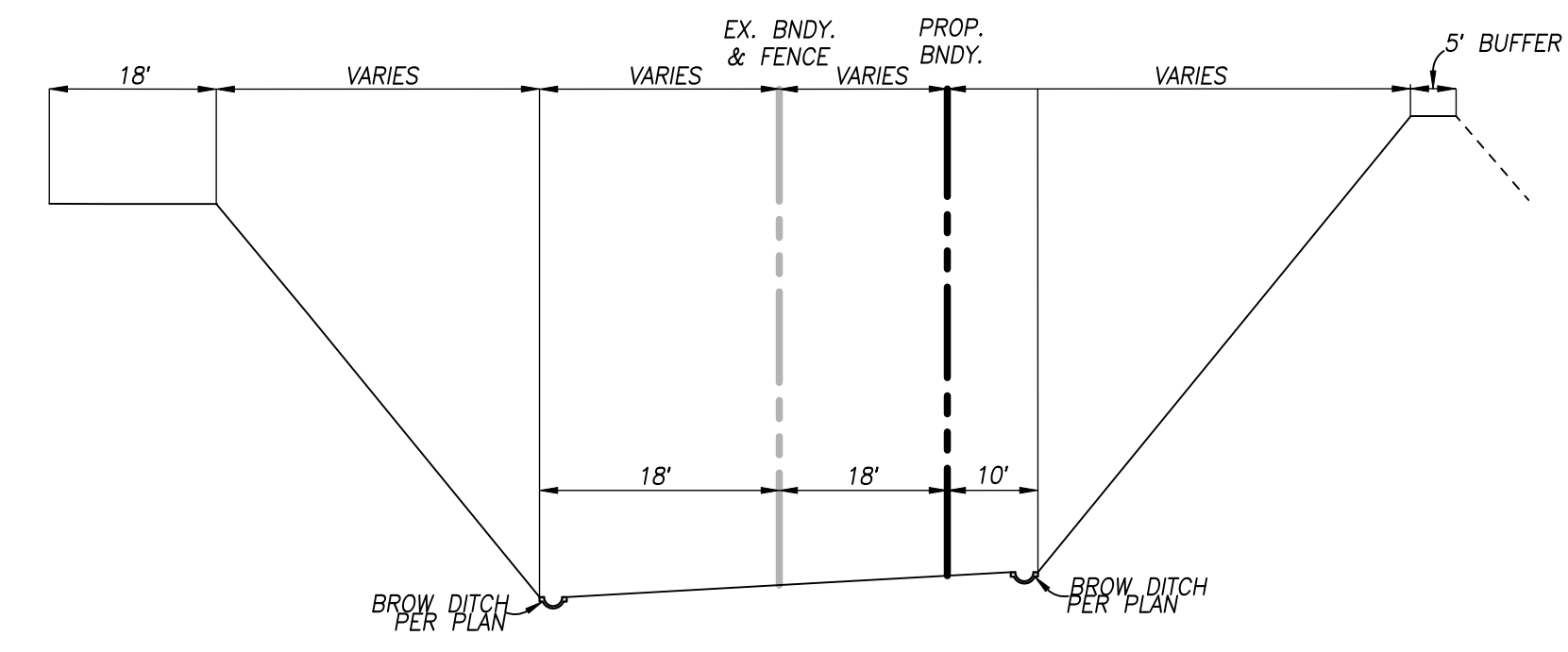
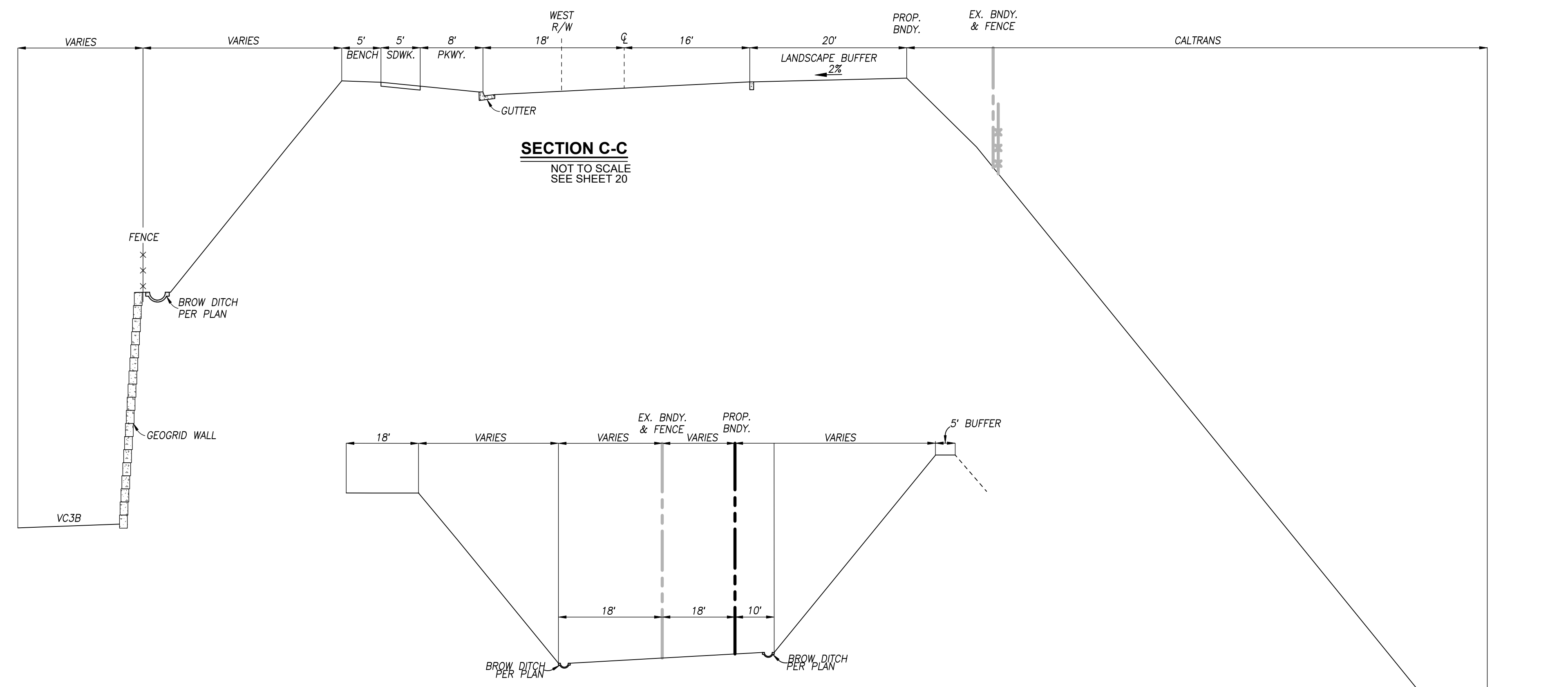
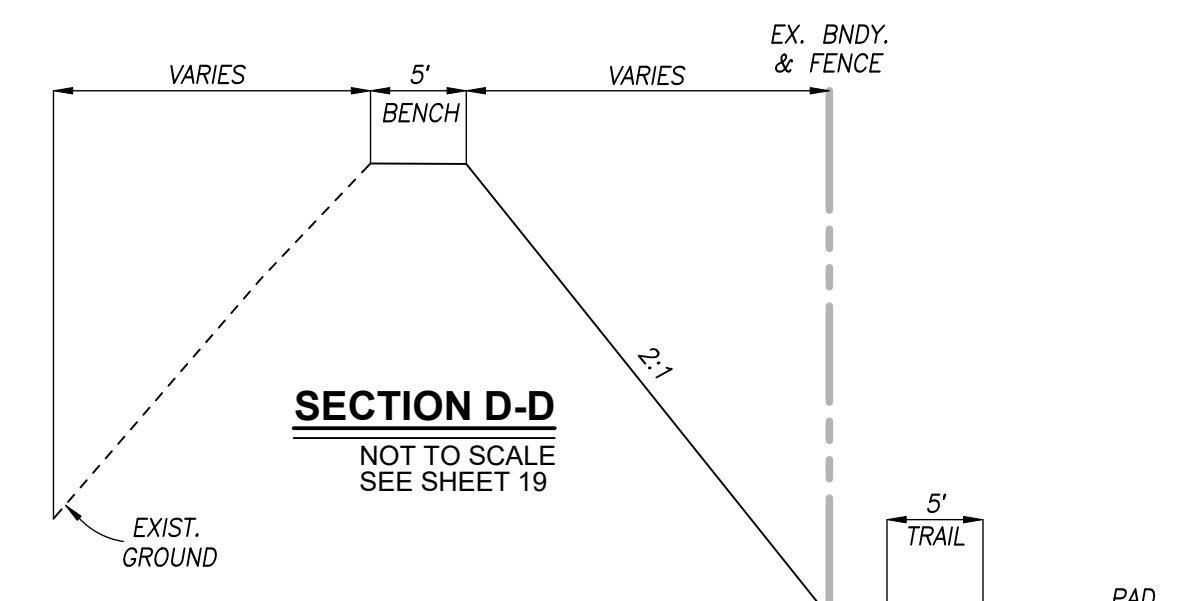
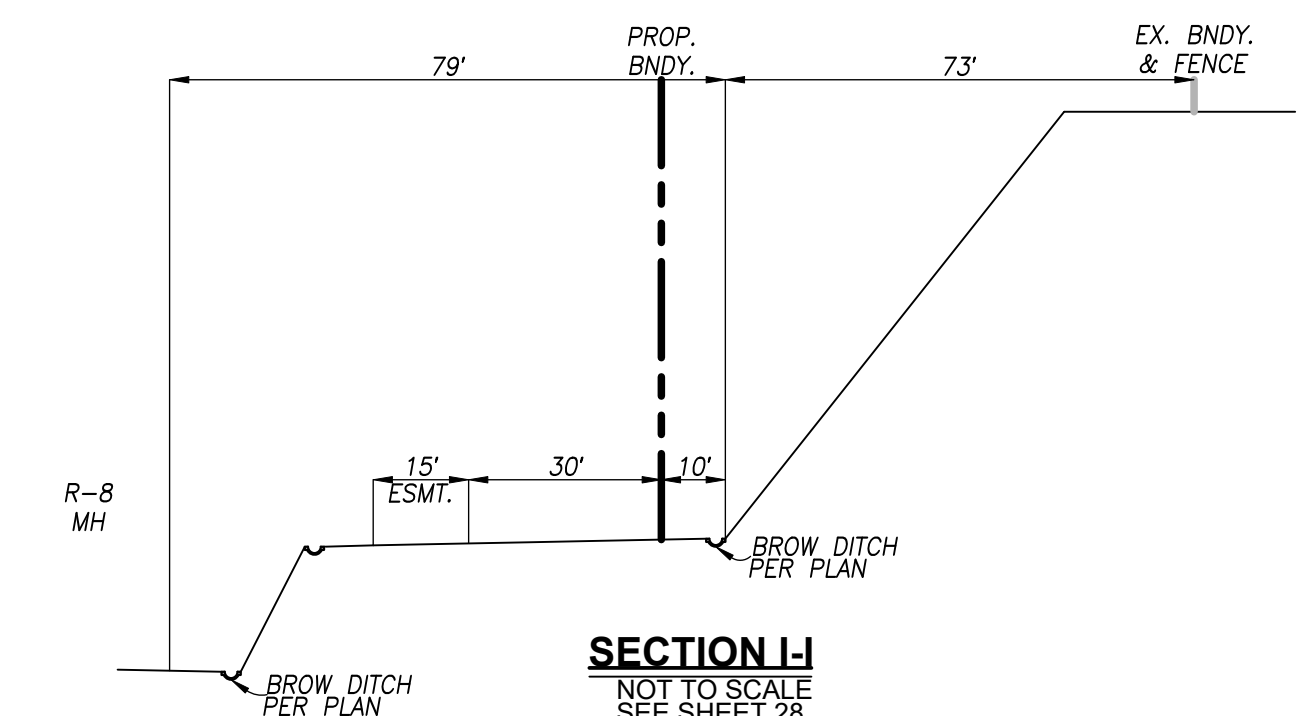
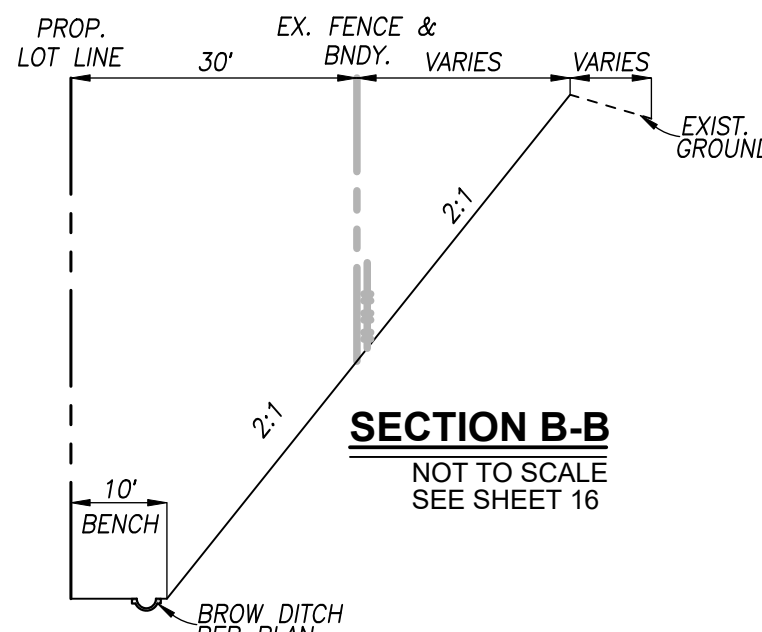
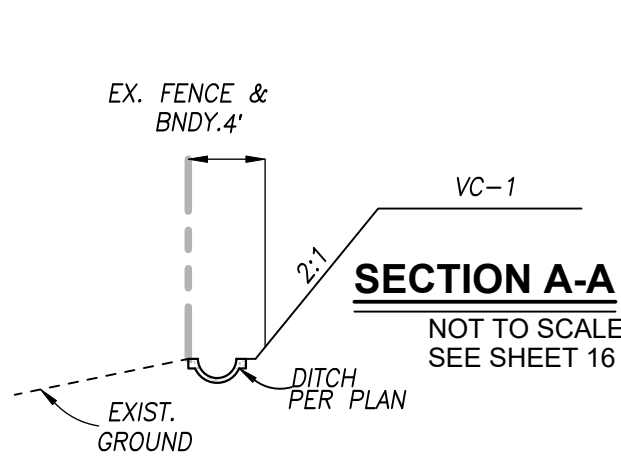
Submitted: _____
By: _____

Planning: _____ Landscape: _____

AS BUILT

CONTRACTOR: _____ DRAWING NO. G008
INSPECTOR: _____ DATE COMPLETED: _____

HUNSAKER & ASSOCIATES
SAN DIEGO, INC.
PLANNING 9707 WAPLES STREET
ENGINEERING San Diego, Ca 92121
SURVEYING PH858558-4500 FAX858558-1414



GRADING SECTIONS SHEET FOR OTAY RANCH VILLAGE 8 EAST	
CHULA VISTA TRACT NO. 22-0005	
DEVELOPMENT SERVICES DEPARTMENT	
ACCELA NO.: XXXX	PROJECT NO.: XXXX
Approved: _____	
By: _____	Principal Civil Engineer
Submitted: _____	
By: _____	1796 - 6340
Planning: _____	
Landscape: _____	154 - 1773
LAMBERT COORDINATES	
DRAWING NO. G009	
CONTRACTOR: _____	
INSPECTOR: _____ DATE COMPLETED: _____	

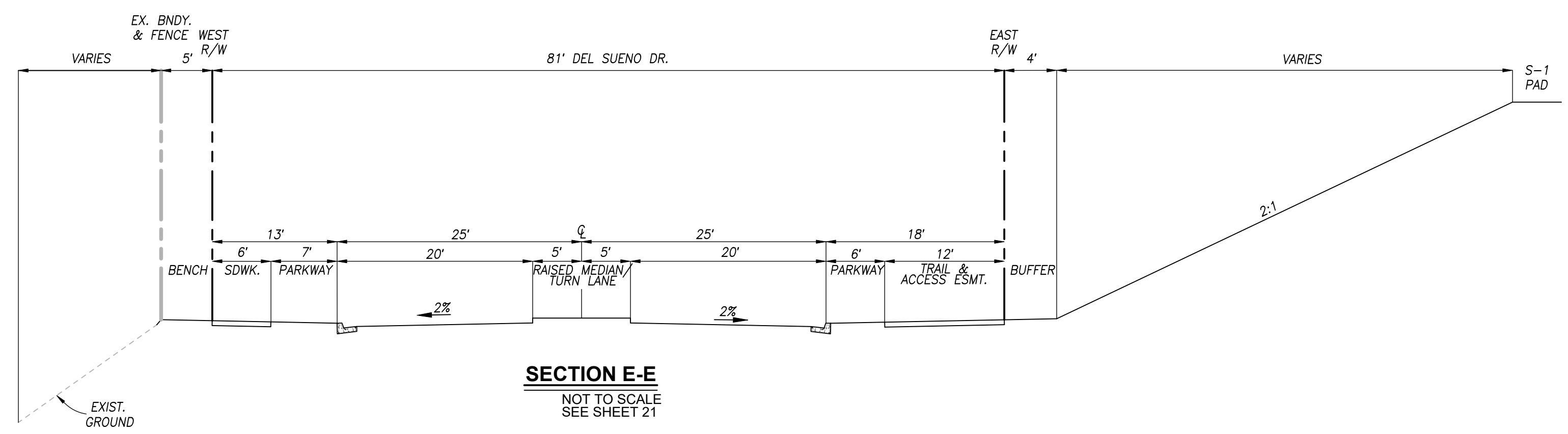
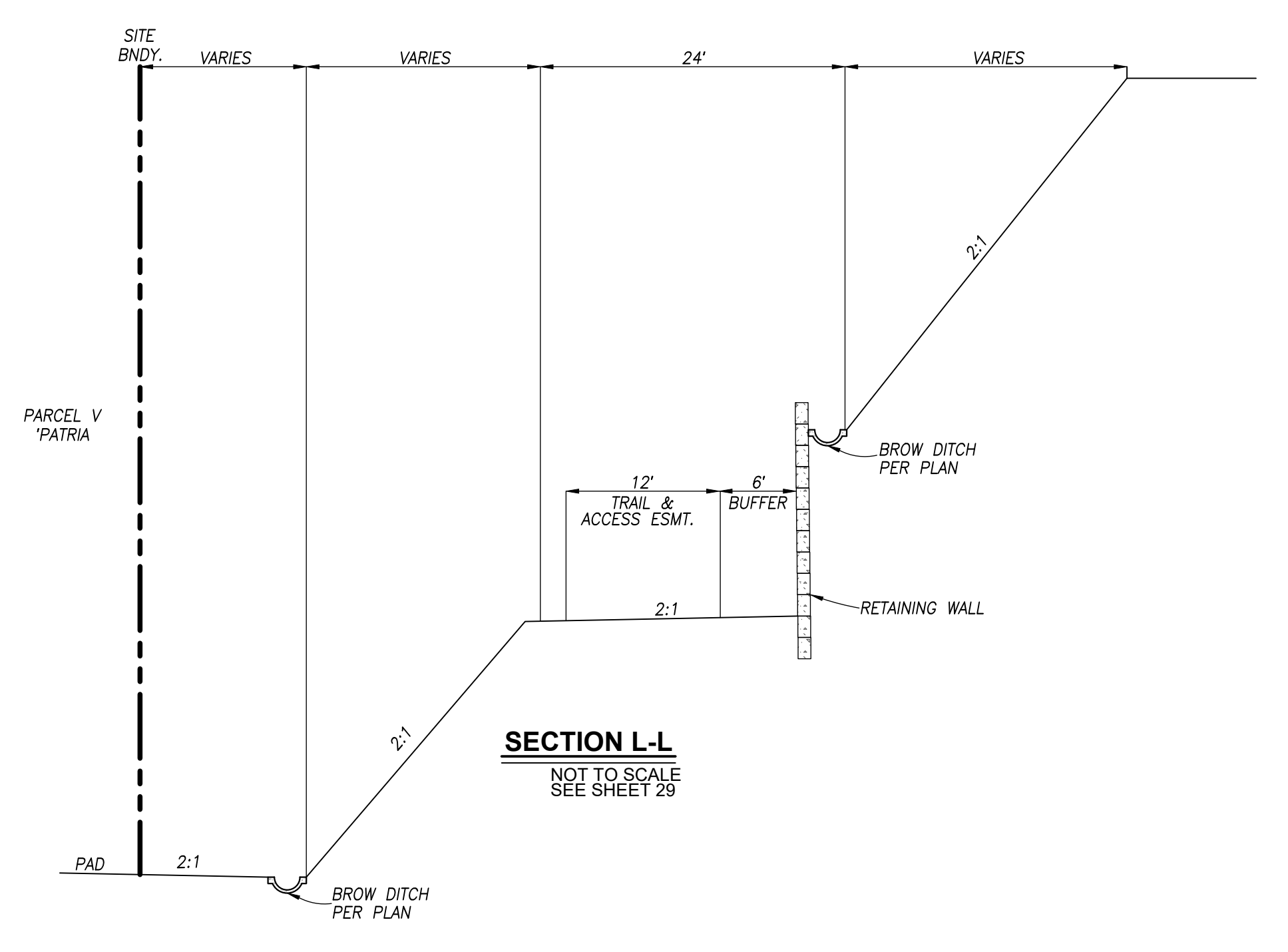
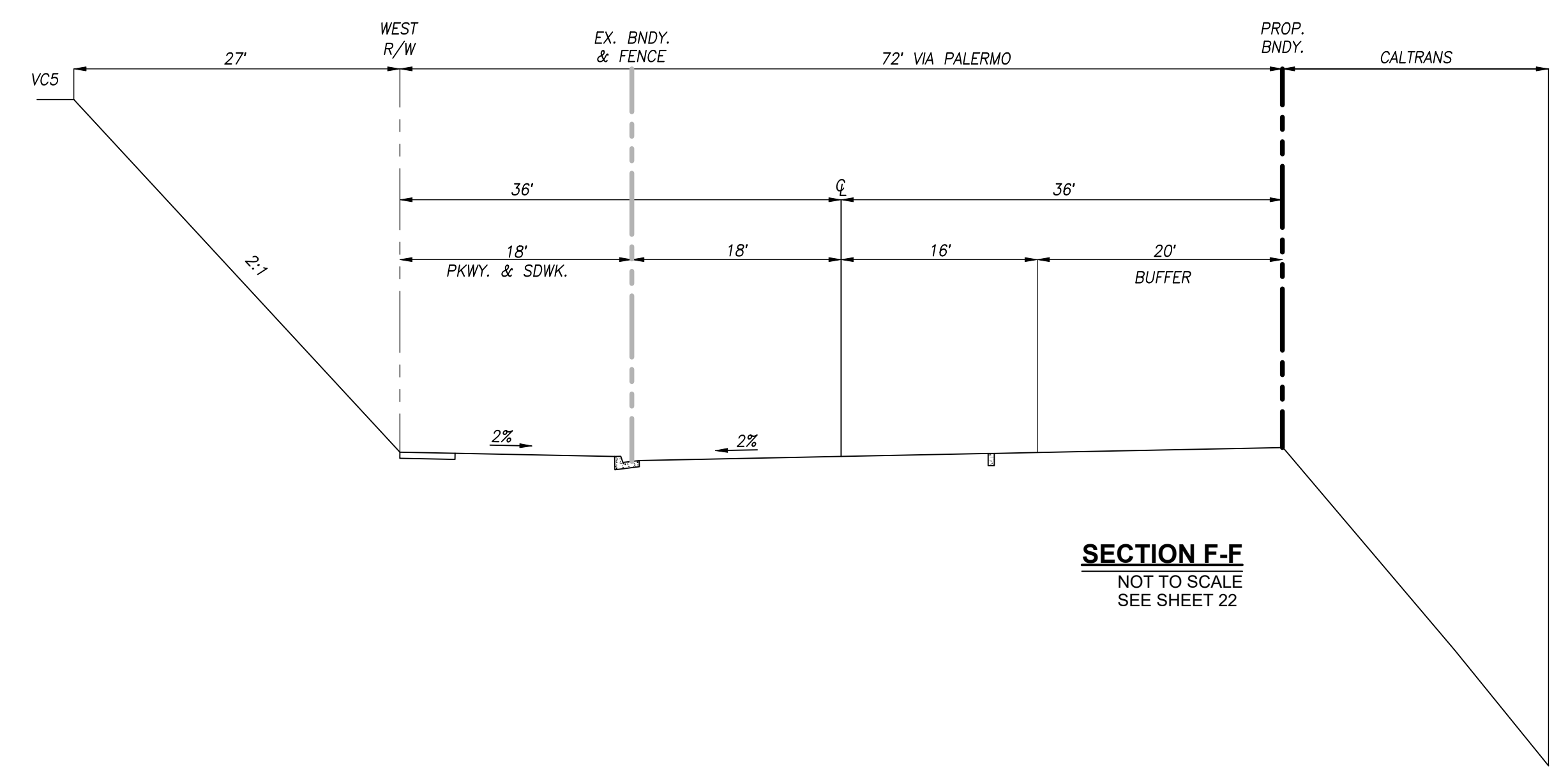
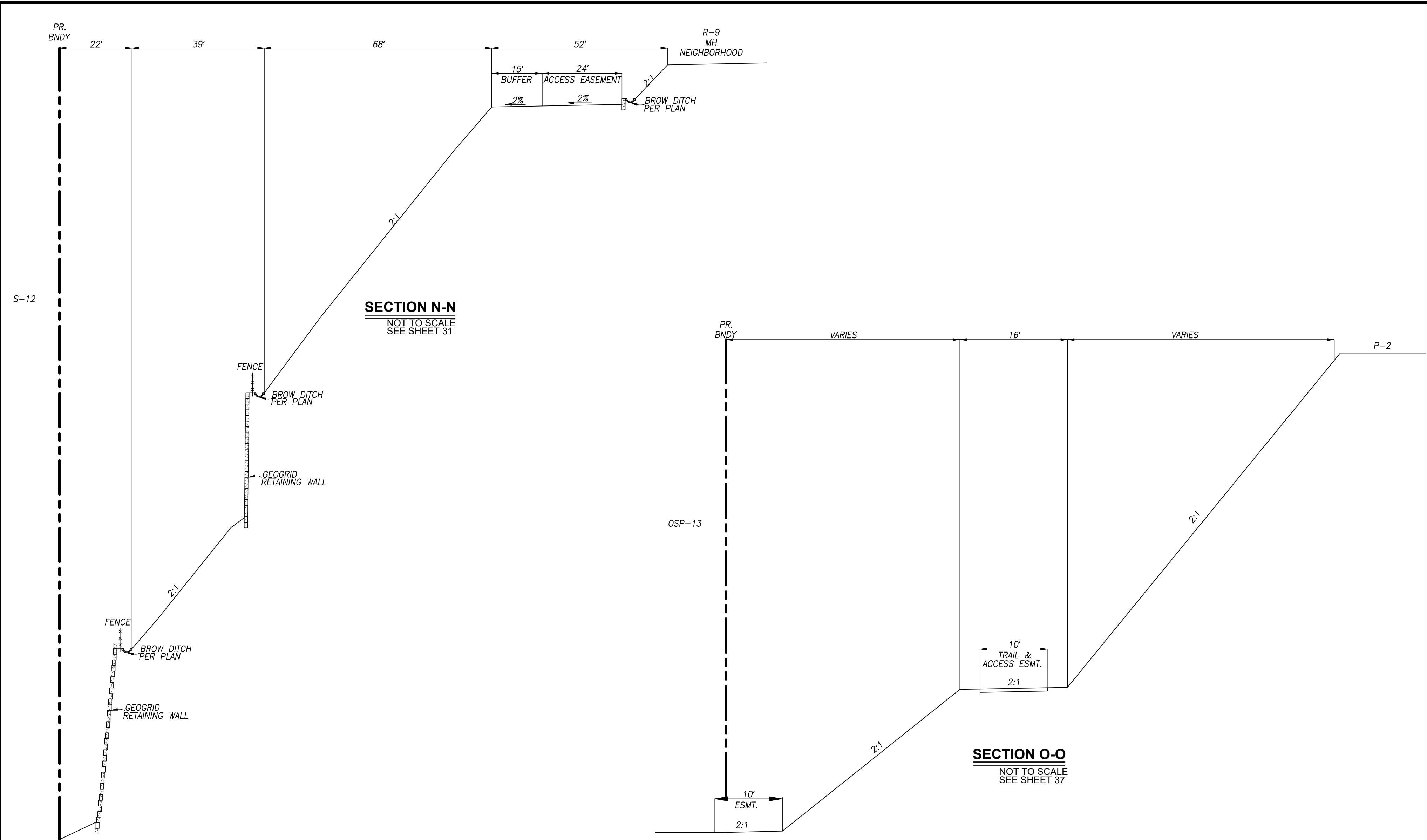


AS BUILT	UTILITY NOTE
SIGNATURE: _____ Date: _____ YOLANDA CALVO P.E. No. 61827 My Registration Expires: _____ Discipline: _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.
REFERENCE DRAWINGS	REVISIONS
C.V. DWG. NO. 02025-IMP. PLANS C.V. DWG. NO. 04068-GRADING PLANS C.V. DWG. NO. 04078-IMP. PLANS C.V. DWG. NO. 04080-IMP. PLANS	By Date App'd C.V. DWG. NO. 14011-GRADING PLANS SR-125 PLANS-11232304 C.V. DWG. NO. 14012-IMP. PLANS C.V. DWG. NO. 18016-GRADING PLANS C.V. DWG. NO. 19036-IMP. PLANS C.V. DWG. NO. 20028-GRADING PLANS C.V. DWG. NO. 20029-GRADING PLANS C.V. DWG. NO. 22043-GRADING PLANS

DESIGNED BY	DRAWN BY	CHECKED BY
A.C.G./P.A.A.	P.A.A.	Y.C.
Plans Prepared Under Supervision Of: _____ Date: _____		
YOLANDA CALVO R.C.E. No. 61827		

THE CITY OF CHULA VISTA

ROUGH GRADING PLANS FOR OTAY RANCH VILLAGE 8 EAST
C:\REVISED: XXXX\XX\X W.O. NO. 2395-0079



GRADING SECTIONS SHEET FOR OTAY RANCH VILLAGE 8 EAST	
CHULA VISTA TRACT NO. 22-0005	
DEVELOPMENT SERVICES DEPARTMENT	
ACCELA NO.: XXXX	PROJECT NO.: XXXX
TOTAL SHEETS: 90	
1796 - 6340	
NAD83 COORDINATES	
154 - 1773	
LAMBERT COORDINATES	
AS BUILT	
DRAWING NO.	G010
CONTRACTOR:	XXXXX.XXX
INSPECTOR:	DATE COMPLETED:

AS BUILT	UTILITY NOTE
SIGNATURE YOLANDA CALVO P.E. No. 61827 My Registration Expires _____ Discipline _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.

REVISIONS	By	Date	App'd	REVISIONS	By	Date	App'd

DESIGNED BY:	DRAWN BY:	CHECKED BY:
A.C.G./P.A.A.	P.A.A.	Y.C.
Plans Prepared Under Supervision Of: _____ Date: _____		
YOLANDA CALVO R.C.E. No. 61827		

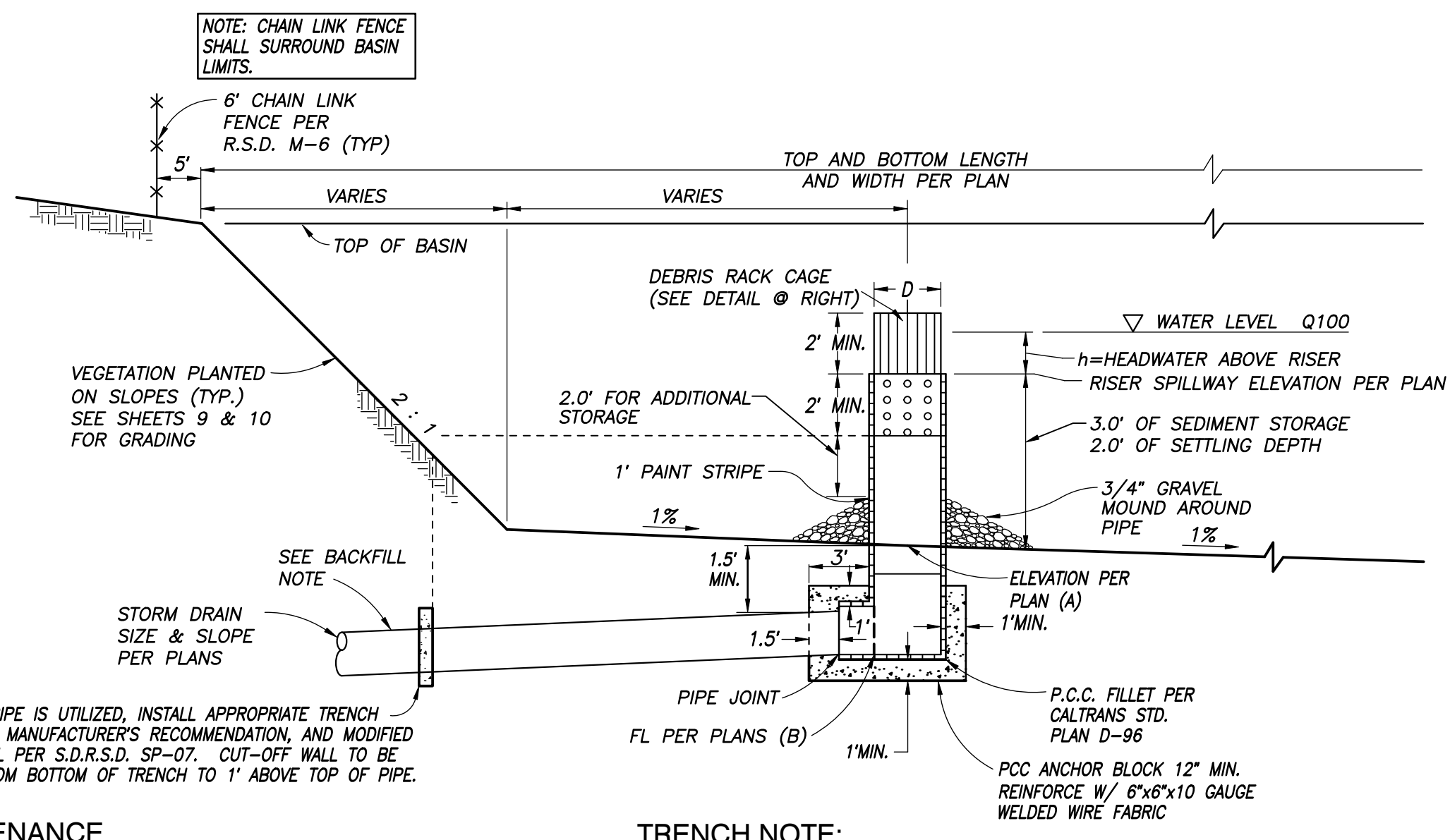
THE CITY OF CHULA VISTA



HUNSAKER & ASSOCIATES
SAN DIEGO, INC.
PLANNING 9707 WAPLES STREET
ENGINEERING San Diego, Ca 92121
SURVEYING PH8585558-4500 FX8585558-1414

ROUGH GRADING PLANS FOR
OTAY RANCH VILLAGE 8 EAST

CV REVISION: XXXX/XX/XX
W.O. NO. 2395-0079

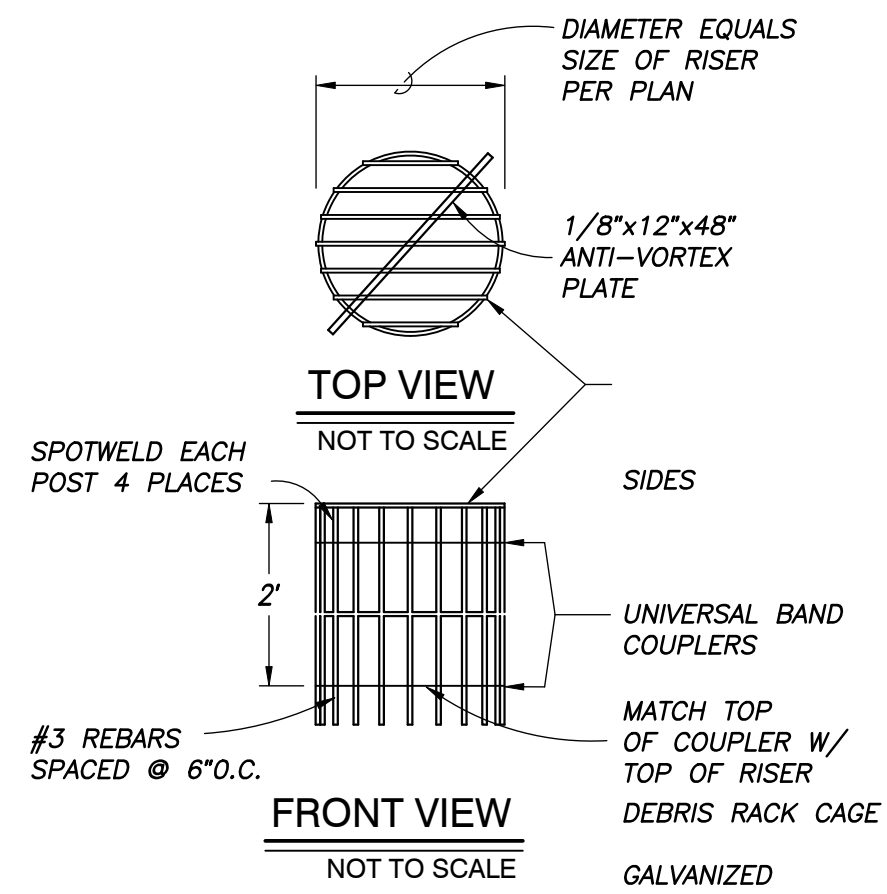


WHEN HDPE PIPE IS UTILIZED, INSTALL APPROPRIATE TRENCH BACKFILL PER MANUFACTURER'S RECOMMENDATION, AND MODIFIED CUT-OFF WALL PER S.D.R.S.D. SP-07. CUT-OFF WALL TO BE INSTALLED FROM BOTTOM OF TRENCH TO 1' ABOVE TOP OF PIPE.

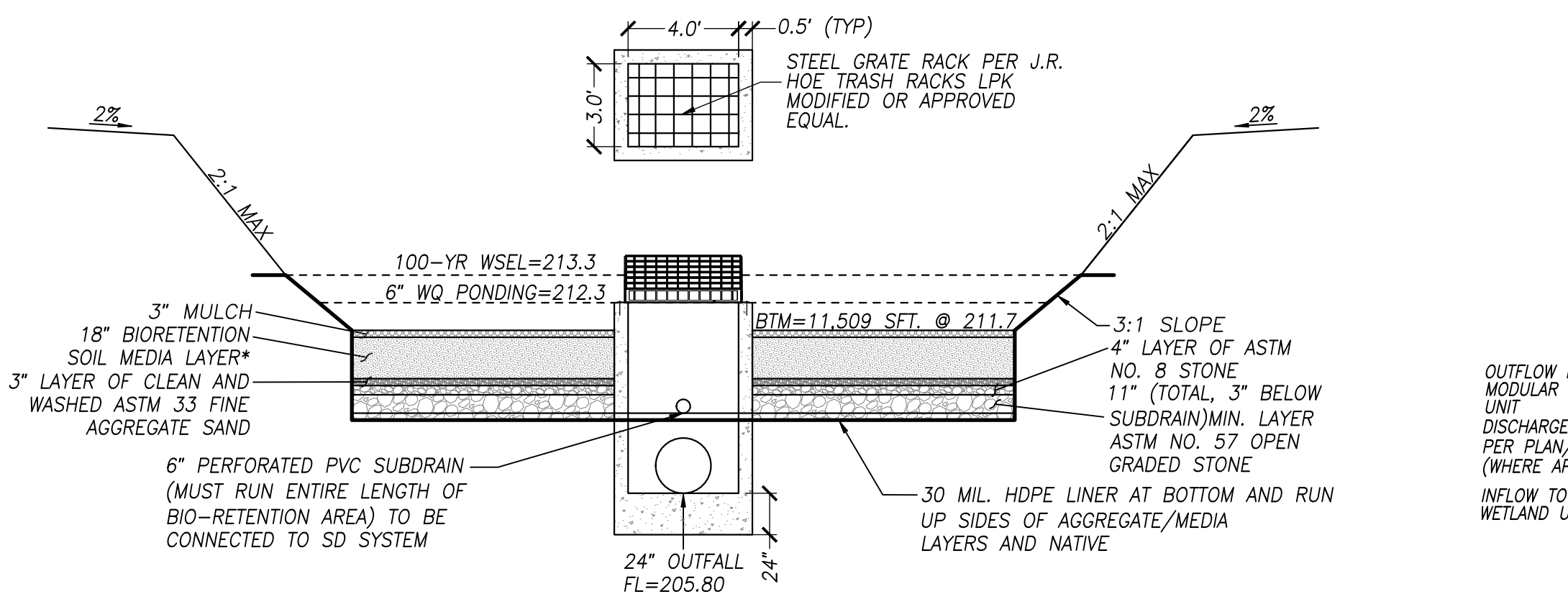
MAINTENANCE
 SEDIMENT SHALL BE REMOVED WHENEVER STORAGE CAPACITY AT THE PAINT STRIPE HAS BEEN ACHIEVED. SEDIMENT SHALL BE DISPOSED OF IN SUCH A MANNER THAT WILL PREVENT ITS RETURN TO THE DESILTING BASIN OR MOVEMENT INTO DOWNSTREAM AREAS DURING SUBSEQUENT RUNOFF. THE DESILTING BASINS ARE PRIVATE FACILITIES AND THE CITY WILL NOT BE RESPONSIBLE FOR THEIR MAINTENANCE. REPLACE FILTER FABRIC IF DAMAGED DURING CLEANING OPERATIONS.

TRENCH NOTE:
 TRENCH BACKFILL (RCP PIPE) SHALL CONSIST OF NATIVE CLAYEY MATERIAL, APPROVED BY THE SOILS ENGINEER PRIOR TO PLACEMENT. OPEN GRADED, PERMEABLE MATERIAL SHALL NOT BE USED AS BACKFILL.

TEMPORARY EROSION CONTROL DESILTING BASIN DETAIL
 (PRIVATELY MAINTAINED) NOT TO SCALE



DEBRIS RACK CAGE DETAIL
 NOT TO SCALE

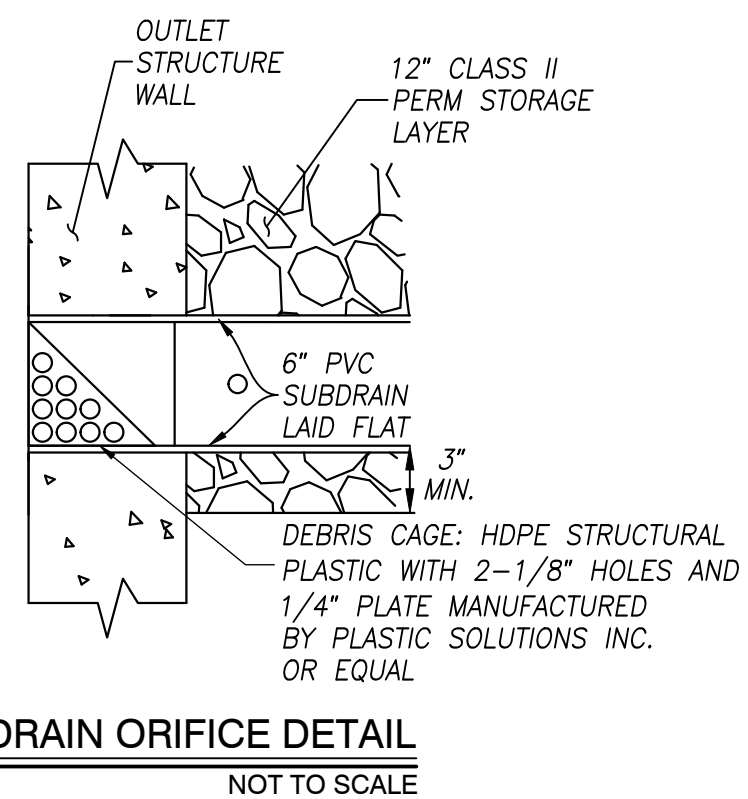


GRADING SECTION FOR BIOFILTRATION BASIN BF-2-2 & OUTLET STRUCTURE DETAIL
 NOT TO SCALE

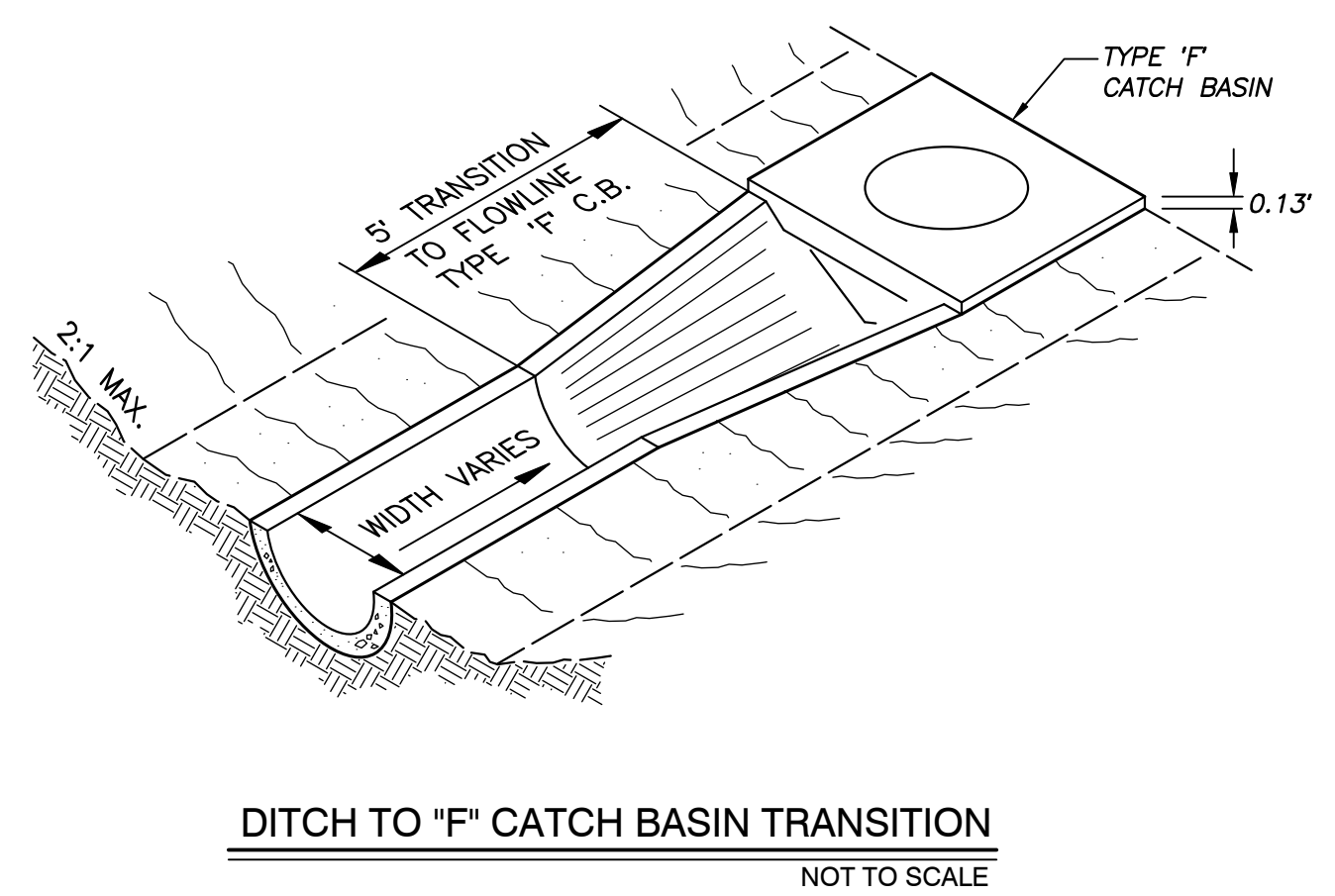
**** BIO-RETENTION FILL NOTES**

18\"/>

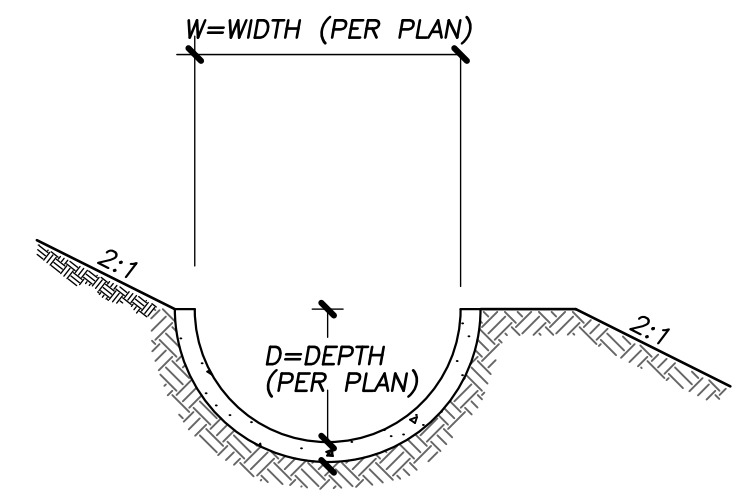
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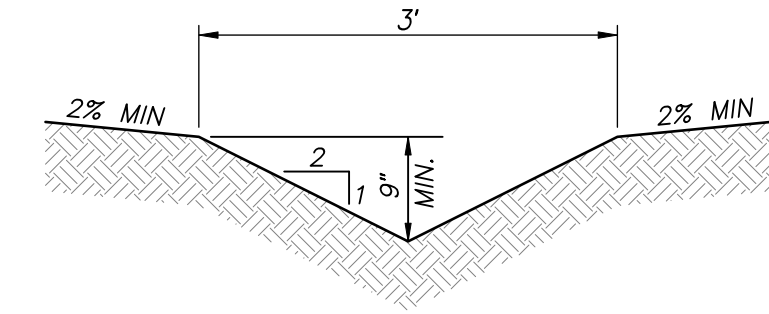
SUBDRAIN ORIFICE DETAIL
 NOT TO SCALE



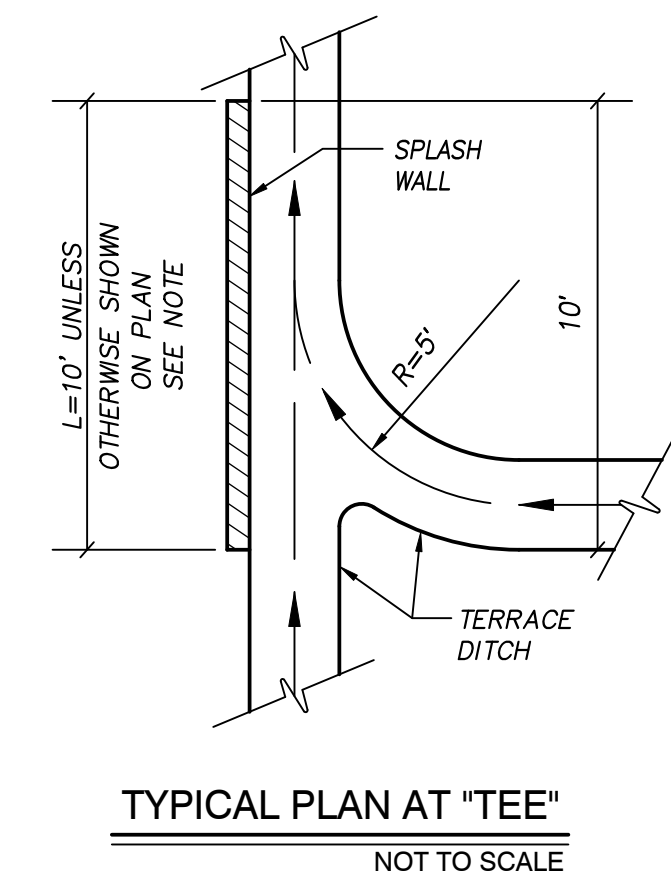
DITCH TO \"F\" CATCH BASIN TRANSITION
 NOT TO SCALE



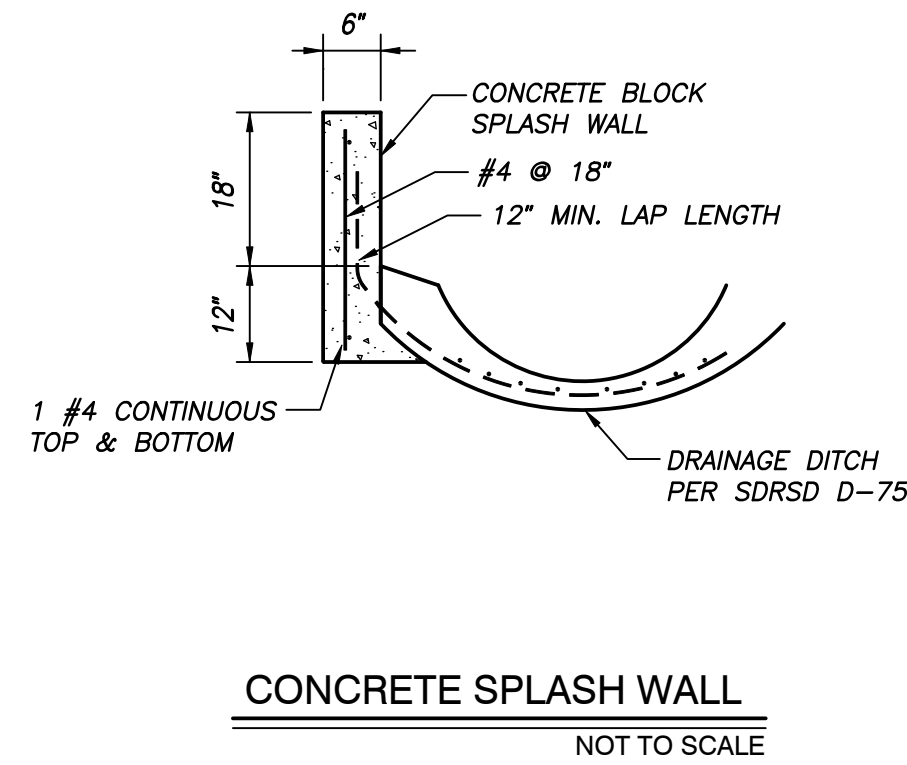
S.D.R.S.D. D-75 TYPE 'D' BROW DITCH
 NOTE: WIDTH & DEPTH VARY PER PLAN NOT TO SCALE



PROPOSED EARTHEN SWALE
 NOT TO SCALE



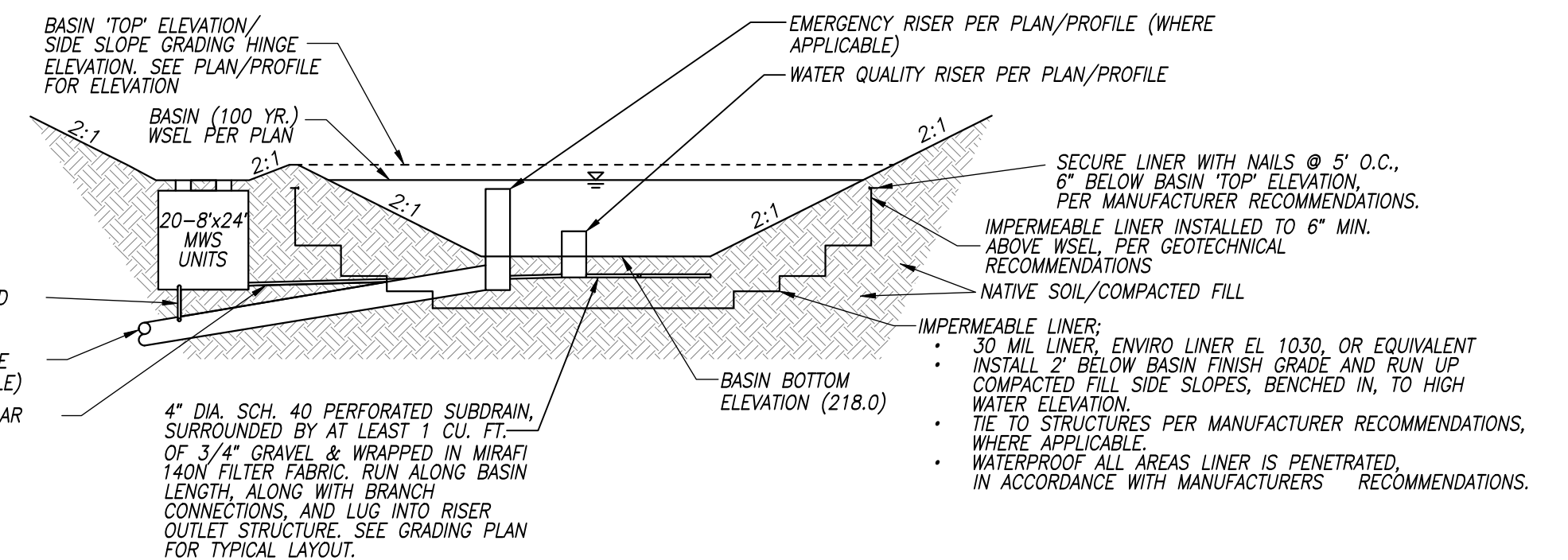
TYPICAL PLAN AT \"TEE\"
 NOT TO SCALE



CONCRETE SPLASH WALL
 NOT TO SCALE



TEMPORARY TOP OF SLOPE BERM (TYP.)
 NOT TO SCALE



GRADING SECTION FOR DETENTION BASIN #1
 PRIVATE NOT TO SCALE

DESILT BASIN ORIFICE & RISER CONFIGURATION							
	BASIN 1	BASIN 2	BASIN 3	BASIN 4	BASIN 5	BASIN 6	BASIN 7
BOTTOM ELEVATION	561.4'	479.5'	483.9'	489.3'	500.7'	493.7'	461.3'
TOP ELEVATION	568.4'	486.5'	490.9'	496.3'	507.7'	500.7'	468.3'
RISER SIZE & RIM ELEVATION	24" @ 566.4'	30" @ 484.5'	30" @ 488.9'	30" @ 494.3'	18" @ 505.7'	24" @ 498.7'	30" @ 466.3'
EMERGENCY RISER SIZE & RIM ELEVATION	24" @ 567.4'	30" @ 485.5'	30" @ 489.9'	30" @ 495.3'	18" @ 506.7'	24" @ 499.7'	30" @ 467.3'
ORIFICE @ 3.0'	1-2"	1-3"	1-3"	1-3"	1-2"	1-2"	1-3"
ORIFICE @ 3.5'	2-2"	1-3"	1-3"	1-3"	1-2"	2-2"	1-3"
ORIFICE @ 4.0'	1-2"	1-3"	1-3"	1-3"	1-2"	1-2"	1-3"
ORIFICE @ 4.5'	1-2"	1-3"	1-3"	1-3"	1-2"	1-2"	1-3"
	BASIN 8	BASIN 9	BASIN 10	BASIN 11	BASIN 12	BASIN 13	BASIN 14
BOTTOM ELEVATION	465.5'	480.8'	486.3'	467.2'	467.4'	424.9'	433.8'
TOP ELEVATION	472.5'	487.8'	493.3'	474.2'	474.4'	431.9'	440.8'
RISER SIZE & RIM ELEVATION	18" @ 470.5'	24" @ 485.8'	24" @ 491.3'	24" @ 472.2'	24" @ 472.4'	30" @ 429.9'	30" @ 438.8'
EMERGENCY RISER SIZE & RIM ELEVATION	18" @ 471.5'	24" @ 486.8'	24" @ 492.3'	24" @ 473.2'	24" @ 473.4'	30" @ 430.9'	30" @ 439.8'
ORIFICE @ 3.0'	1-2"	1-2"	1-2"	1-2"	1-2"	1-3"	1-3"
ORIFICE @ 3.5'	1-2"	2-2"	2-2"	2-2"	2-2"	1-3"	1-3"
ORIFICE @ 4.0'	1-2"	1-2"	1-2"	1-2"	1-2"	1-3"	1-3"
ORIFICE @ 4.5'	1-2"	1-2"	1-2"	1-2"	1-2"	1-3"	1-3"
	BASIN 15	BASIN 16	BASIN 17	BASIN 18	BASIN 19	BASIN 20	BASIN 21
BOTTOM ELEVATION	447.2'	450.8'	373.8'	369.7'	360.7'	359.7'	359.8'
TOP ELEVATION	454.2'	457.8'	380.8'	376.7'	367.7'	366.7'	366.8'
RISER SIZE & RIM ELEVATION	30" @ 452.2'	30" @ 455.8'	30" @ 378.8'	30" @ 374.7'	30" @ 365.7'	30" @ 364.7'	18" @ 364.8'
EMERGENCY RISER SIZE & RIM ELEVATION	30" @ 453.2'	30" @ 456.8'	30" @ 379.8'	30" @ 375.7'	30" @ 366.7'	30" @ 365.7'	18" @ 365.8'
ORIFICE @ 3.0'	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-1"
ORIFICE @ 3.5'	1-3"	1-3"	3-3"	1-3"	3-3"	1-3"	2-1"
ORIFICE @ 4.0'	1-3"	1-3"	3-3"	1-3"	3-3"	1-3"	2-1"
ORIFICE @ 4.5'	1-3"	1-3"	3-3"	1-3"	3-3"	1-3"	2-1"

AS BUILT

UTILITY NOTE
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Signature: YOLANDA CALVO, P.E. No. 61827
 My Registration Expires: _____ Discipline: _____

REFERENCE DRAWINGS	REVISIONS	By	Date	App'd	REVISIONS	By	Date	App'd
C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS	SR-125 PLANS-11232304						
C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS						
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS						
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS						

Designed By: A.C.G./P.A.A. Drawn By: P.A.A. Checked By: Y.C.
 Plans Prepared Under Supervision Of: _____ Date: _____
 YOLANDA CALVO R.C.E. No. 61827

HUNSAKER & ASSOCIATES
 SAN DIEGO, INC.
 PLANNING 9707 WAPLES STREET
 ENGINEERING San Diego, Ca 92121
 SURVEYING PH858558-4500-FX858558-9414



THE CITY OF CHULA VISTA

DETAILS SHEET FOR OTAY RANCH VILLAGE 8 EAST
 CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT

ACCELA NO.: XXXX
 PROJECT NO.: XXXX
 TOTAL SHEETS: 90
 1796 - 6340
 NAD83 COORDINATES
 154 - 1773
 LAMBERT COORDINATES

Approved: _____
 By: _____ Principal Civil Engineer

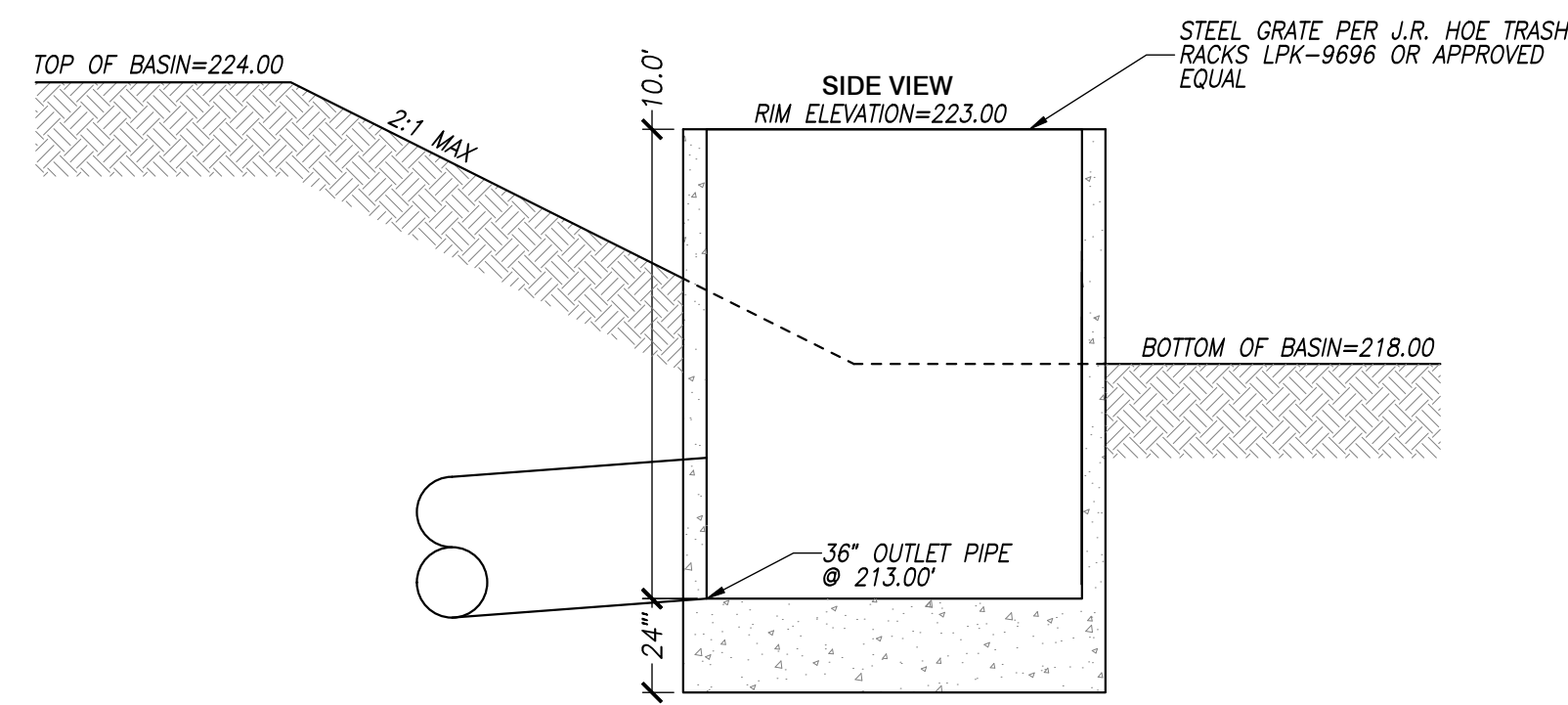
Submitted: _____
 By: _____

Planning: _____ Landscape: _____

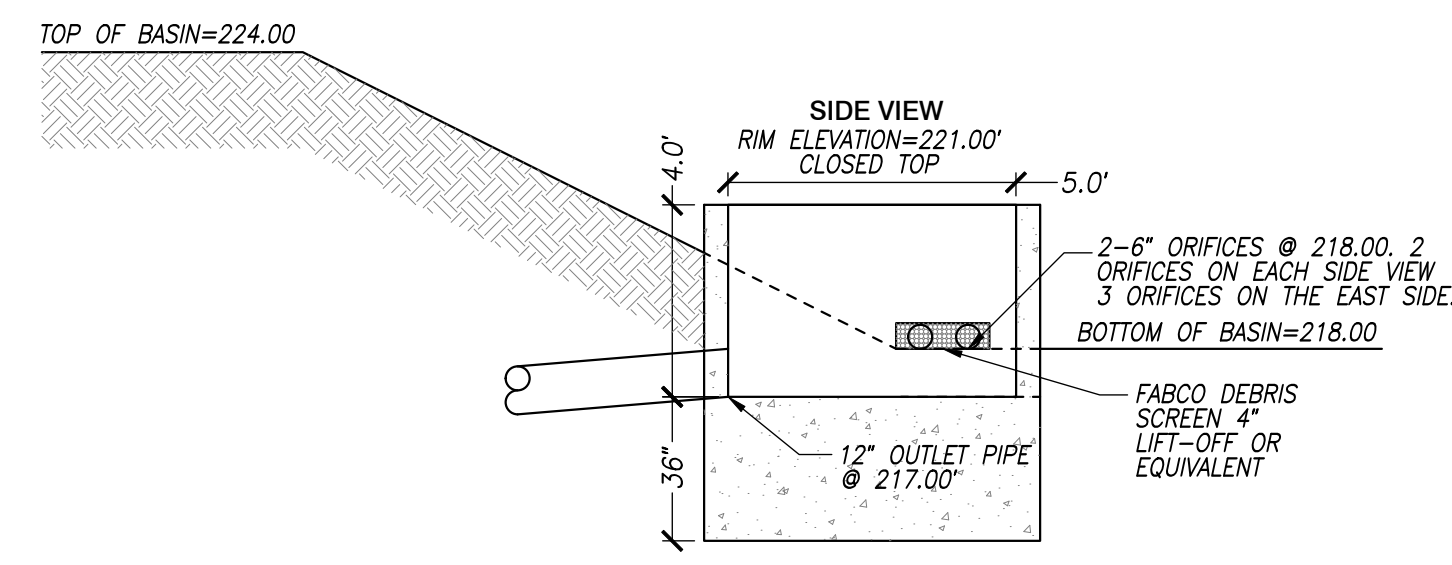
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CONTRACTOR: _____ DRAWING NO. G011
 INSPECTOR: _____ DATE COMPLETED: _____

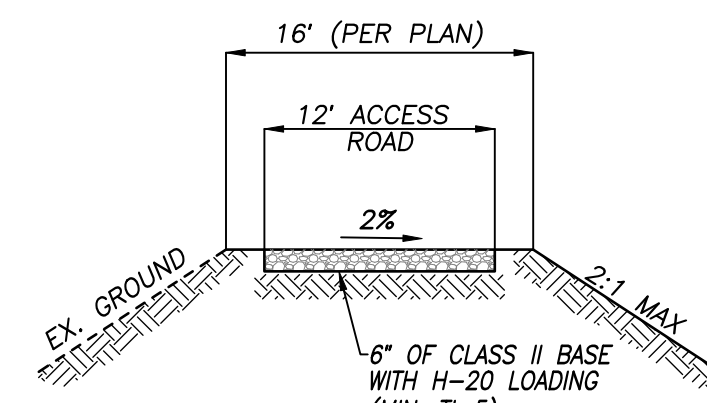
ROUGH GRADING PLANS FOR OTAY RANCH VILLAGE 8 EAST



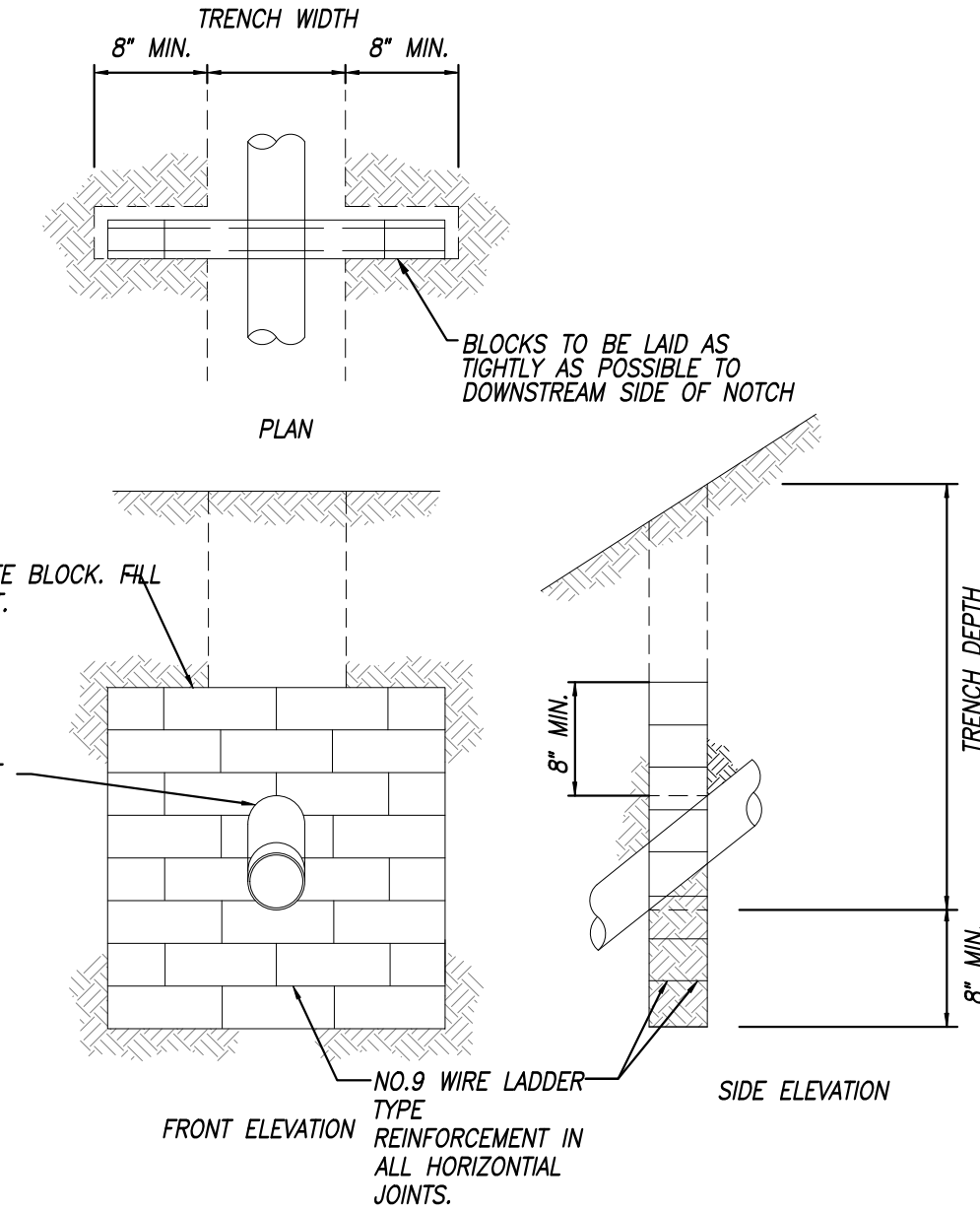
8'x8' DETENTION RISER (MOD. A-8 C.O. W/STEEL GRATE) DETAIL FOR BASIN #1
PRIVATE NOT TO SCALE



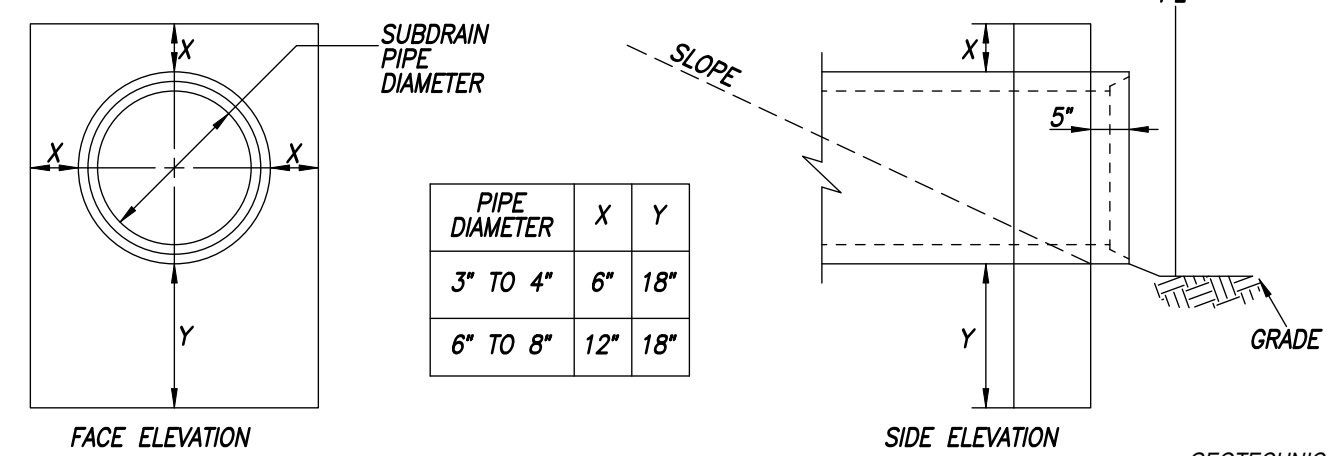
4'x5' WATER QUALITY RISER (MOD. A-5 C.O. CLOSED TOP) DETAIL FOR BASIN #1
PRIVATE NOT TO SCALE



SECTION B-B
N.T.S. (SEE SHEET 33 & 36)
BASIN ACCESS & MAINTENANCE ROADS
NOT TO SCALE

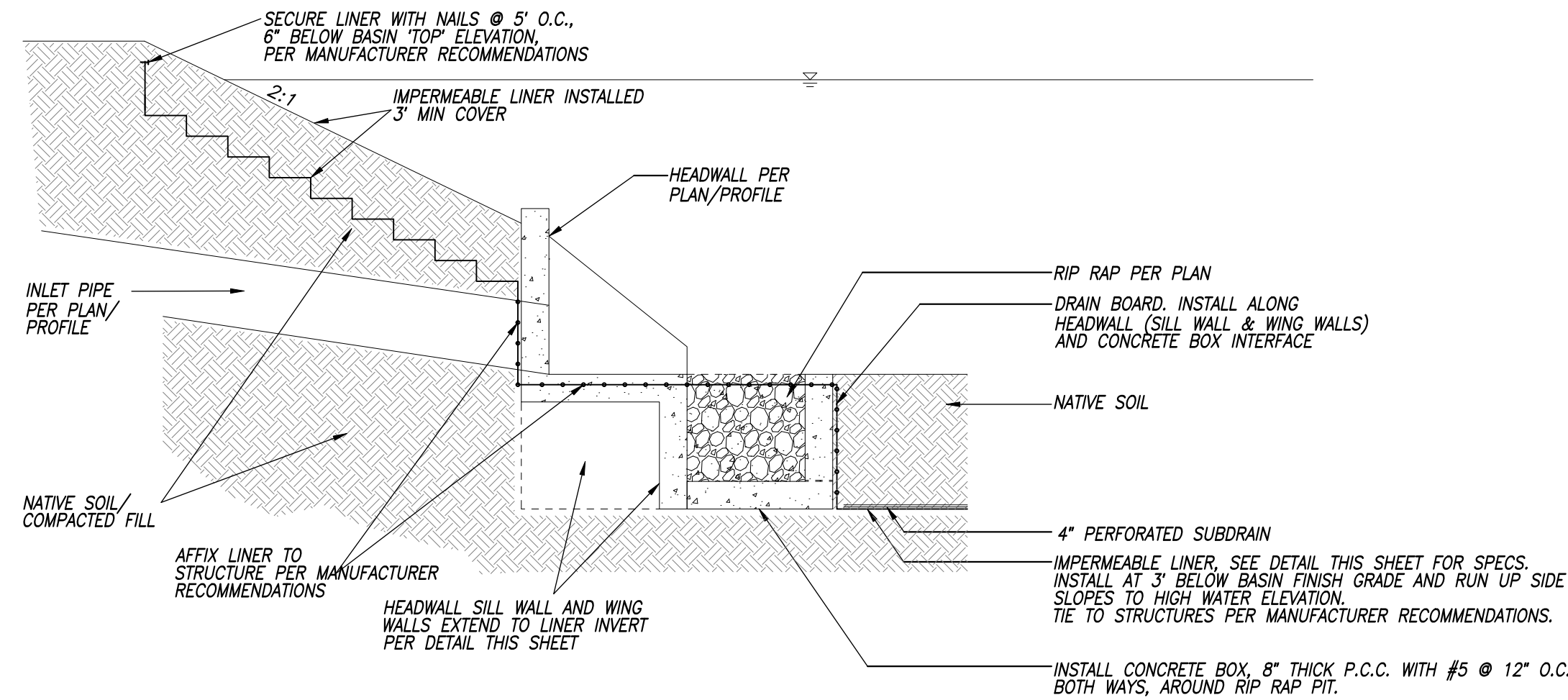


CONCRETE ANCHOR
N.T.S.

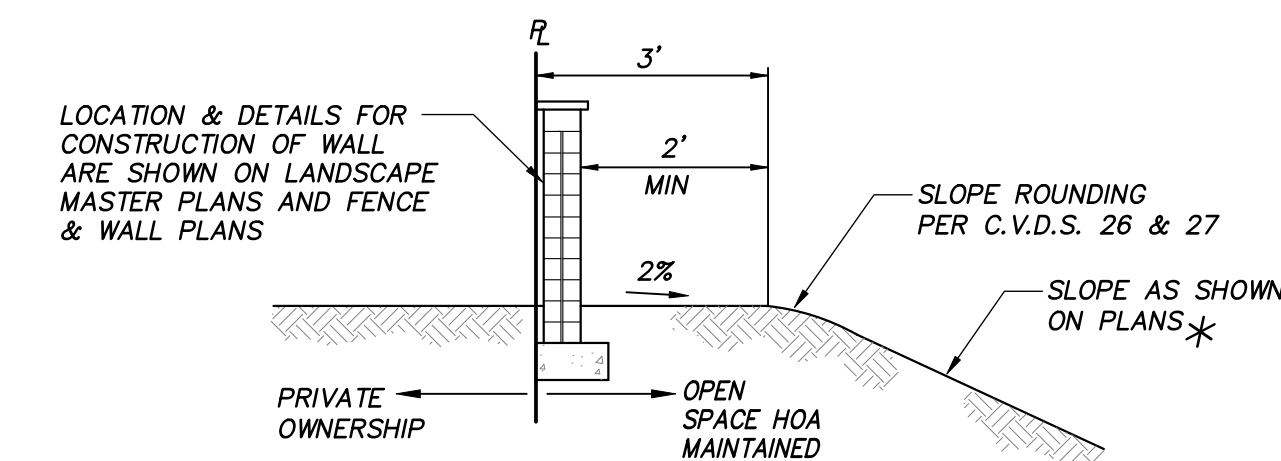


HEADWALL SUBDRAIN OUTLET DETAIL
PRIVATE NOT TO SCALE

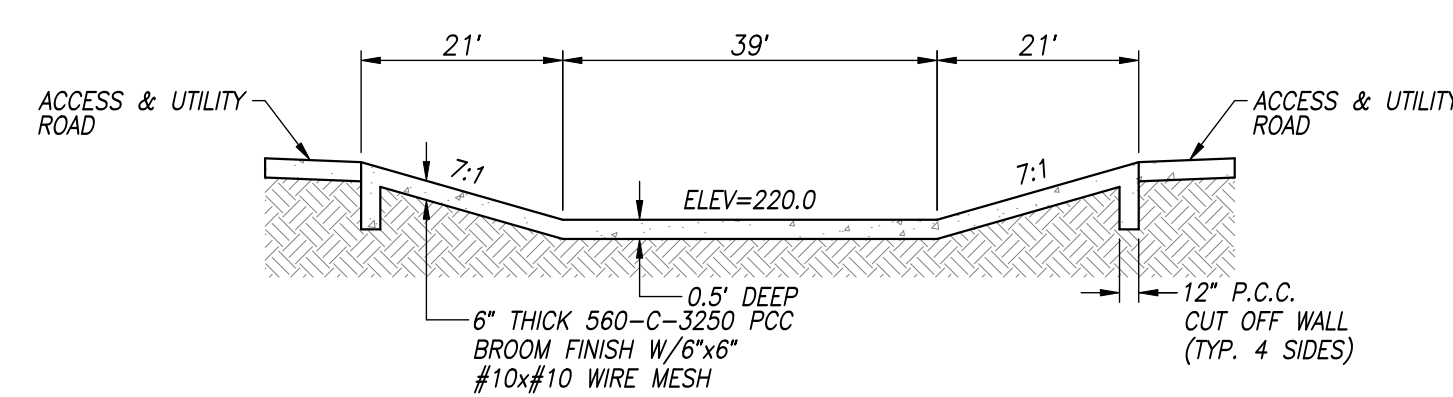
GEOTECHNICAL SUBDRAIN NOTE:
REFERENCE GEOTECHNICAL REPORT FOR SUBDRAIN DISCHARGE HEADWALLS AND CONNECTION DETAILS. PRECISE LOCATION OF SUBDRAINS SHALL BE ACCURATELY LOCATED AND SHOWN ON THE FINAL AS BUILT PLANS.



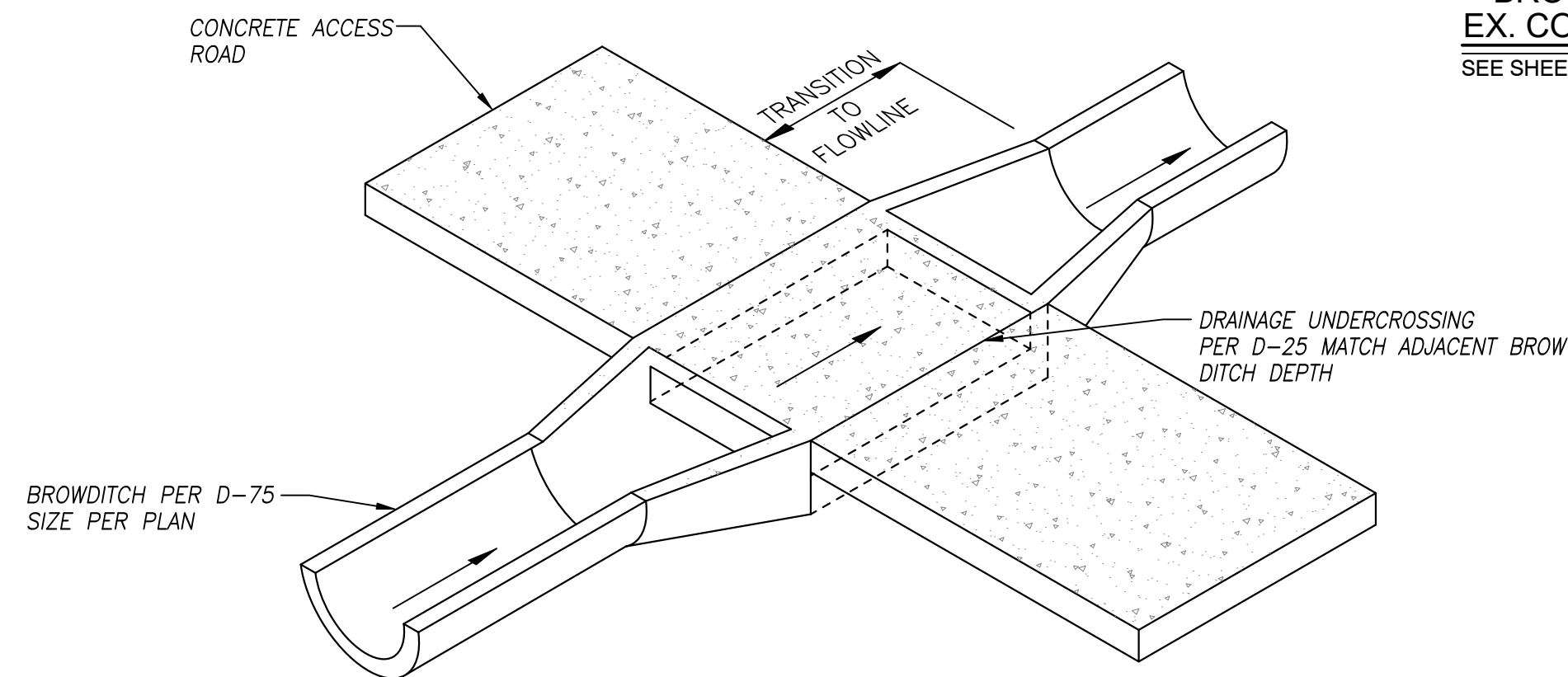
LINER, HEADWALL & RIP RAP INSTALLATION
PRIVATE NOT TO SCALE



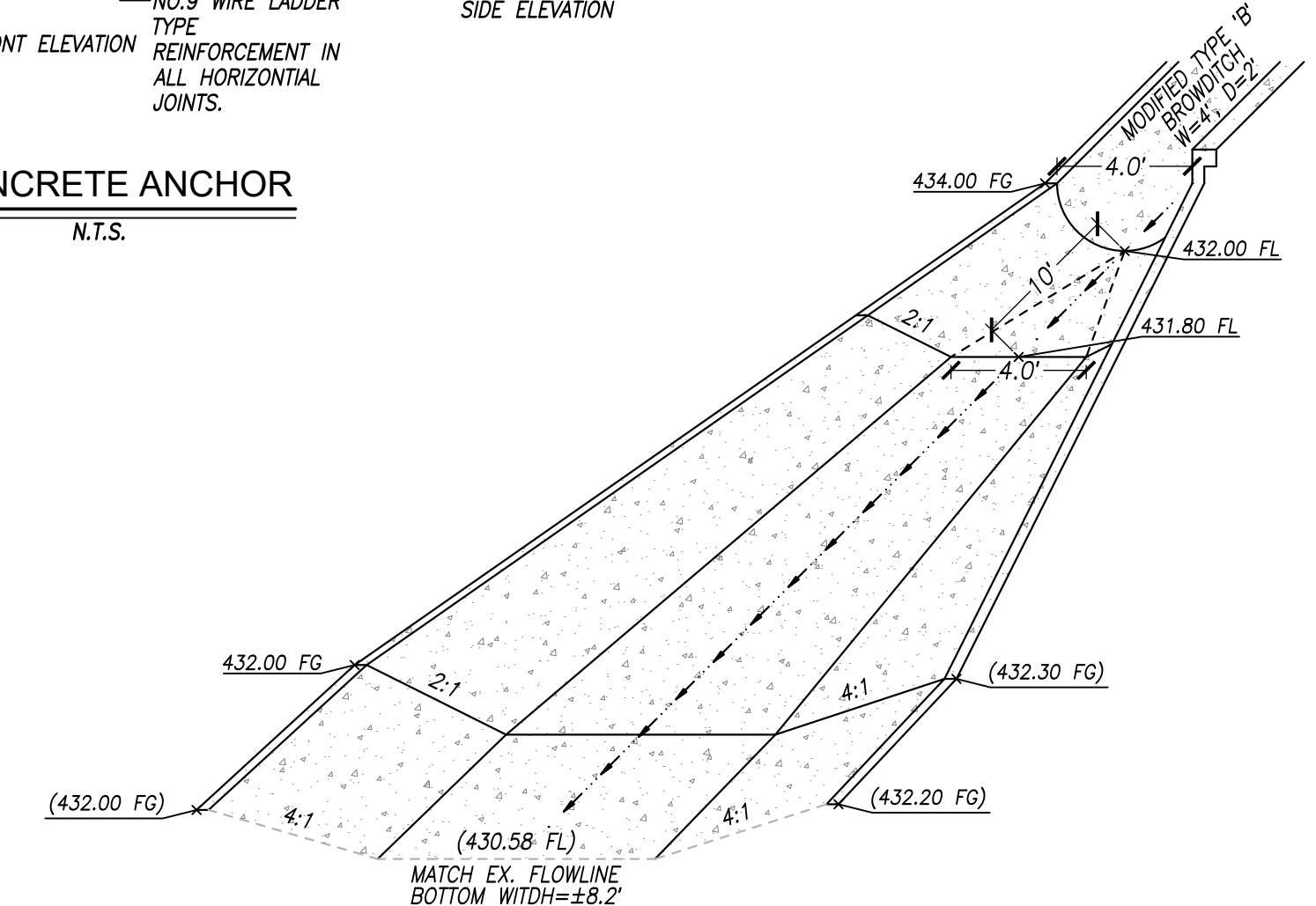
TOP OF SLOPE BENCH @ OPEN SPACE BOUNDARY
NOT TO SCALE



PROPOSED ARIZONA CROSSING SOUTH OF EX. DETENTION BASIN DETAIL
SEE SHEET 36 NOT TO SCALE



DITCH TO DRAINAGE UNDERCROSSING @ ACCESS ROAD DETAIL
SEE SHEET 32 & 36 NOT TO SCALE



BROWDITCH TRANSITION TO EX. CONCRETE CHANNEL DETAIL
SEE SHEET 24 NOT TO SCALE

AS BUILT		UTILITY NOTE	
Signature: YOLANDA CALVO	Date: 6/18/27	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
My Registration Expires: _____	Discipline: _____	REFERENCE DRAWINGS	
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C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS	
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS	
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS	

REVISIONS	By	Date	App'd	REVISIONS	By	Date	App'd

DESIGNED BY	DRAWN BY	CHECKED BY
A.C.G./P.A.A.	P.A.A.	Y.C.
Plans Prepared Under Supervision Of: YOLANDA CALVO		

THE CITY OF CHULA VISTA

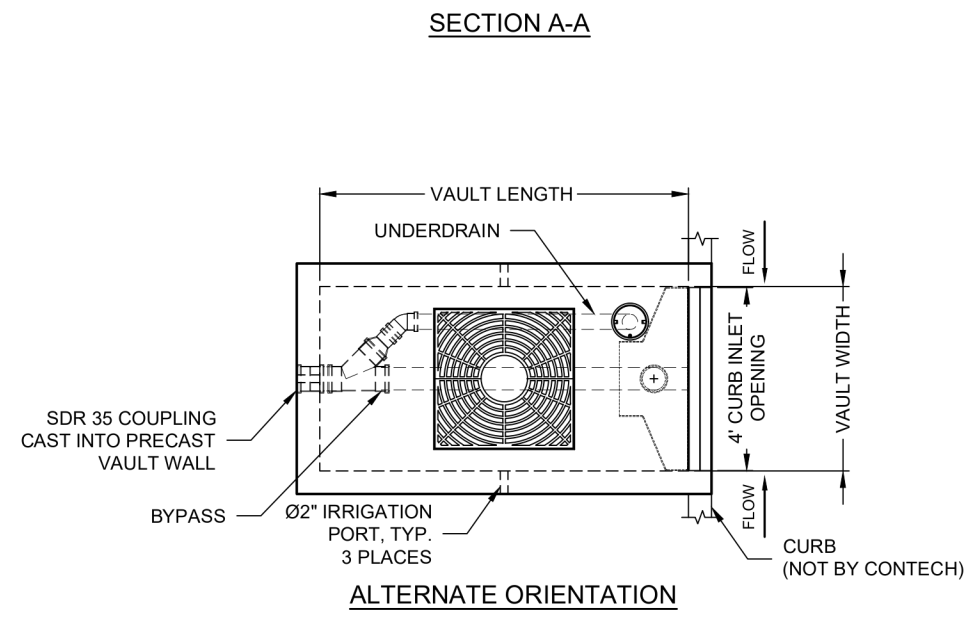
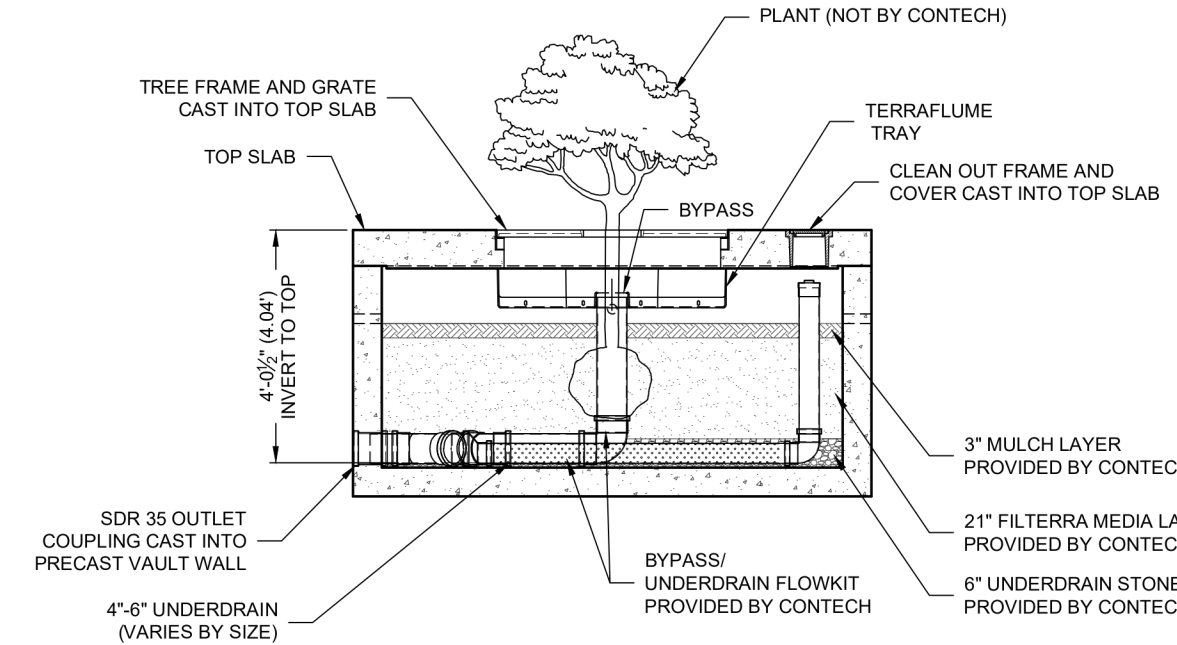
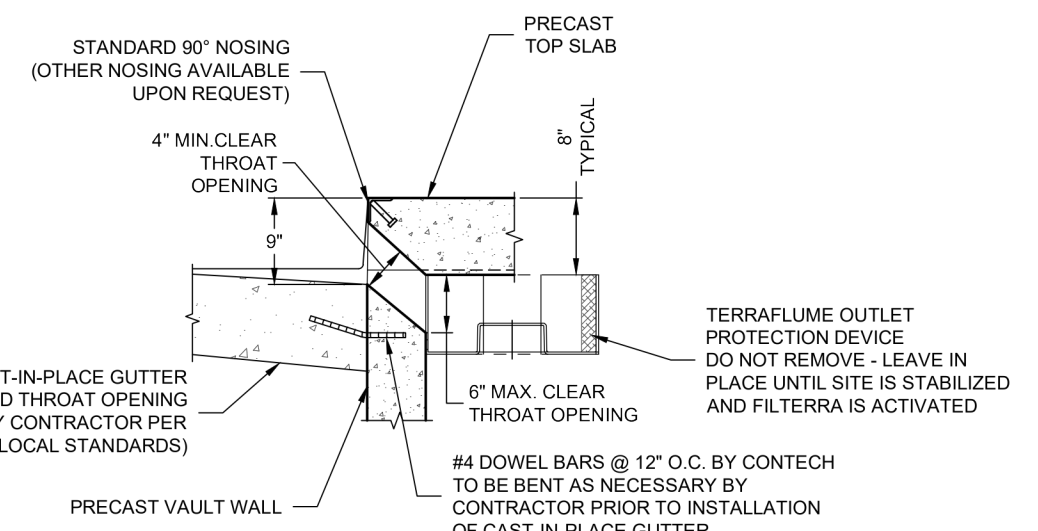
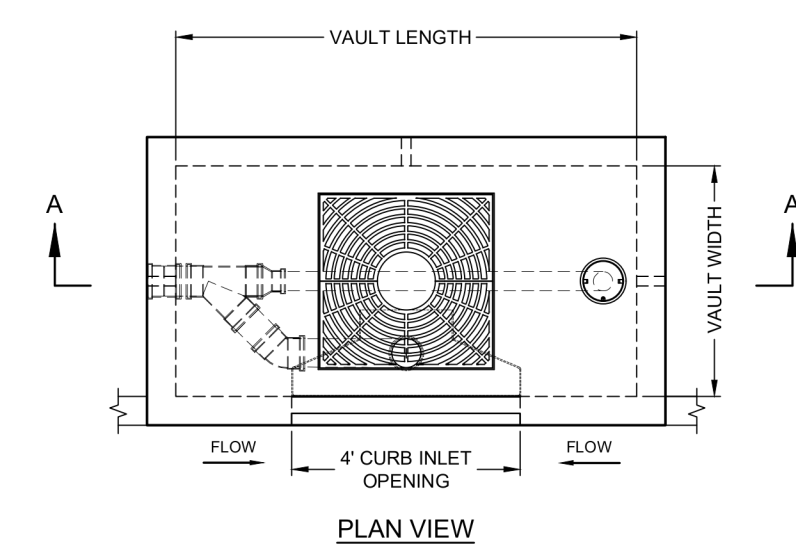


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ENGINEERING San Diego, Ca 92121
SURVEYING PH8585558-4500 FX8585558-1414

DETAILS SHEET FOR OTAY RANCH VILLAGE 8 EAST		CHULA VISTA TRACT NO. 22-0005	
DEVELOPMENT SERVICES DEPARTMENT		ACCELA NO.: XXXX	PROJECT NO.: XXXX
Approved: _____		TOTAL SHEETS: 90	1796 - 6340
By: _____ Principal Civil Engineer		NAD83 COORDINATES	
Submitted: _____		154 - 1773	
By: _____		LAMBERT COORDINATES	
Planning: _____		Landscape: _____	
AS BUILT			
CONTRACTOR: _____		DRAWING NO. XXXXX.XXX	G012
INSPECTOR: _____		DATE COMPLETED: _____	

ROUGH GRADING PLANS FOR OTAY RANCH VILLAGE 8 EAST

I:\COMMUNICATIONS\DRAWINGS\STANDARD DRAWINGS\FTIBC - INTERNAL BYPASS CURB INLET\DETAILS\FTIBC - FILTERRA INTERNAL BYPASS CURB INLET CONFIG DETAIL.DWG 10/20/23 3:32 PM



FTIBC CONFIGURATION							
VAULT SIZE (L x W)	MEDIA AREA (SF)	LONG SIDE INLET DESIG. / PART NO.	SHORT SIDE INLET DESIG. / PART NO.	AVAILABILITY	MAX. OUTLET/BYPASS PIPE DIA.	MAX. BYPASS/FLOW (CFS)	UNDER-DRAIN PIPE DIA. (PERF)
4 x 4	16	FTIBC0404	FTIBC0404	ALL	6" SDR 35	1.42	4" SDR 35 (1) 3" x 3"
6 x 4	24	FTIBC0604	FTIBC0406	ALL	8" SDR 35	1.89	4" SDR 35 (1) 3" x 3"
8 x 4	32	FTIBC0804	FTIBC0408	ALL (EXCEPT DE, MD, NJ, PA, VA, WV ONLY)	8" SDR 35	1.89	4" SDR 35 (1) 3" x 3"
7.83 x 4.5	35	FTIBC078045	FTIBC045078	DE, MD, NJ, PA, VA, WV ONLY	8" SDR 35	1.89	4" SDR 35 (1) 3" x 3"
6 x 6	36	FTIBC0606	FTIBC0606	ALL (EXCEPT CA, TX)	8" SDR 35	1.89	4" SDR 35 (1) 3" x 3"
8 x 6	48	FTIBC0806	FTIBC0608	ALL	10" SDR 35	2.37	4" SDR 35 (1) 4" x 4"
10 x 6	60	FTIBC1006	FTIBC0610	ALL (EXCEPT CA, TX)	10" SDR 35	2.37	6" SDR 35 (1) 4" x 4"
8 x 8	64	FTIBC0808	FTIBC0808	CA, TX ONLY	10" SDR 35	2.37	6" SDR 35 (1) 4" x 4"
12 x 6	72	FTIBC1206	FTIBC0612	ALL (EXCEPT TX)	10" SDR 35	2.37	6" SDR 35 (2) 4" x 4"
10 x 8	80	FTIBC1008	FTIBC0810	CA, TX ONLY	10" SDR 35	2.37	6" SDR 35 (1) 4" x 4"
13 x 7	91	FTIBC1307	FTIBC0713	ALL (EXCEPT CA, TX)	10" SDR 35	2.37	6" SDR 35 (2) 4" x 4"
12 x 8	96	FTIBC1208	FTIBC0812	CA, TX ONLY	10" SDR 35	2.37	6" SDR 35 (2) 4" x 4"
14 x 8	112	FTIBC1408	N/A	ALL	10" SDR 35	2.37	6" SDR 35 (2) 4" x 4"

BF-3-3B & 5A
BF-3-3D
BF-3-5B

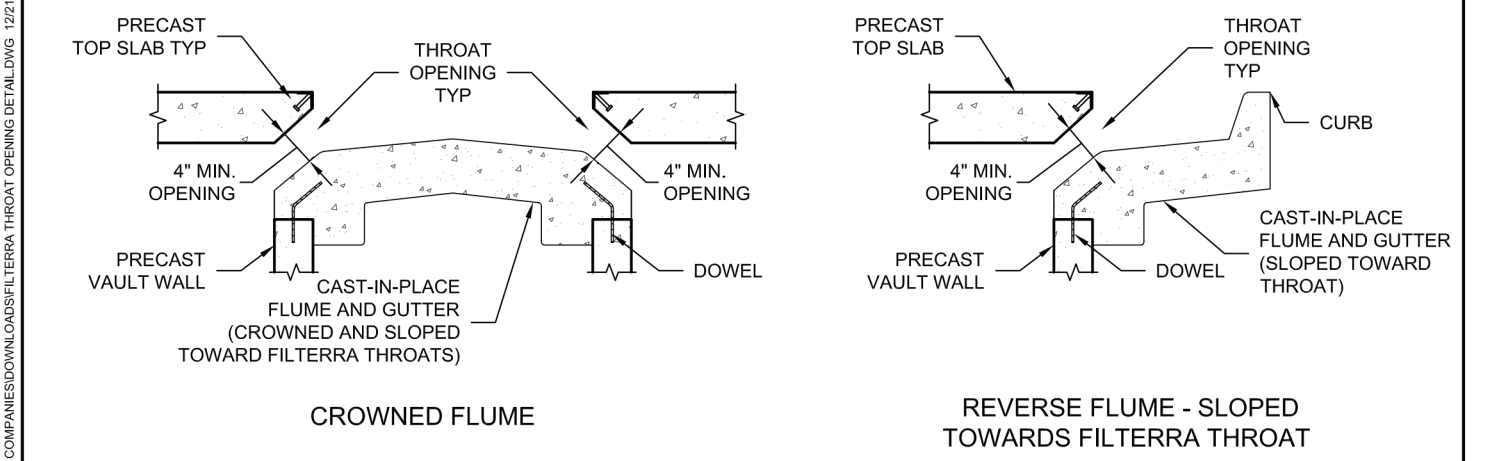
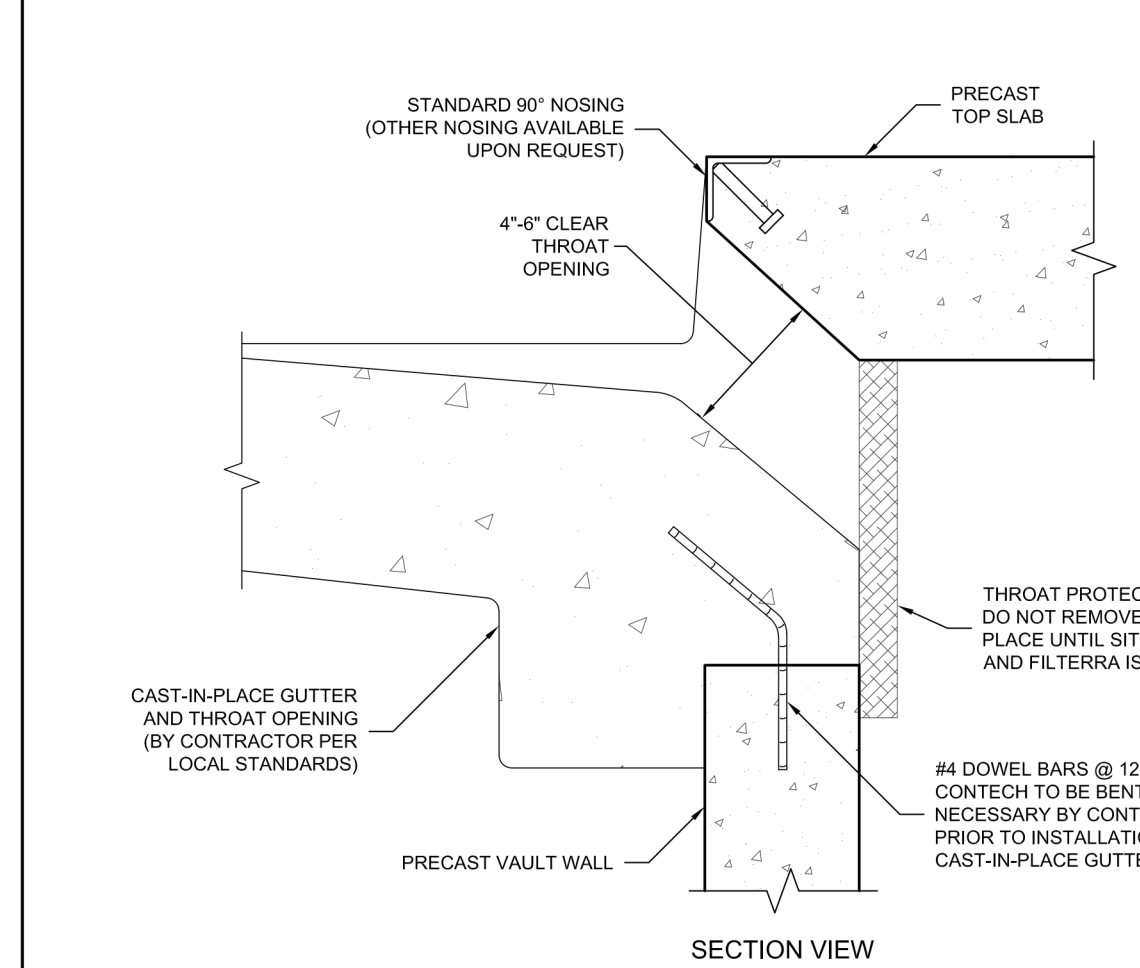
INTERNAL PIPE CONFIGURATION MAY VARY DEPENDING ON VAULT SIZE

CONTECH
ENGINEERED SOLUTIONS LLC
www.contechES.com
9100 Centre Pointe Dr., Suite 400, West Chester, OH 45399
800-338-1122 513-645-7000 513-645-7993 FAX

FILTERRA INTERNAL BYPASS CURB (FTIBC) CONFIGURATION DETAIL



PRIVATE FILTERRA UNITS (SIZE VARIES)
BMPs BF-3-3A THROUGH BF-3-3D (SEE SHEET 16)
NOT TO SCALE



SECTION VIEWS OF TYPICAL FLUME APPLICATIONS
SEE ABOVE FOR DETAILS NOT SHOWN

CONTECH
ENGINEERED SOLUTIONS LLC
www.contechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45399
800-338-1122 513-645-7000 513-645-7993 FAX

FILTERRA THROAT OPENING DETAILS



DATE: 10/04/15 FILENAME: FILTERRA THROAT OPENING DTL DRAWN: SCK CHECKED:

AS BUILT		UTILITY NOTE	
SIGNATURE YOLANDA CALVO	Date P.E. No. 61827	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
My Registration Expires	Discipline	REFERENCE DRAWINGS	
		C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS
		C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS
		C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS
		C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS
			C.V. DWG. NO. 20029-GRADING PLANS
			C.V. DWG. NO. 19036-IMP. PLANS
			C.V. DWG. NO. 22043-GRADING PLANS

REVISIONS	By	Date	App'd	REVISIONS	By	Date	App'd

Designed By: A.C.G./P.A.A.	Drawn By: P.A.A.	Checked By: Y.C.
Plans Prepared Under Supervision Of: YOLANDA CALVO		
R.C.E. No. 61827		

REGISTERED PROFESSIONAL ENGINEER
YOLANDA CALVO
No. 61827
STATE OF CALIFORNIA

HUNSAKER & ASSOCIATES
SAN DIEGO, INC.
PLANNING ENGINEERING SURVEYING
9707 WAPLES STREET
San Diego, CA 92121
PH: 619-558-4500 FAX: 619-558-9414

THE CITY OF CHULA VISTA

DETAILS SHEET FOR OTAY RANCH VILLAGE 8 EAST
CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT

ACCELA NO.: XXXX
PROJECT NO.: XXXX
TOTAL SHEETS: 90
1796 - 6340
NAD83 COORDINATES
154 - 1773
LAMBERT COORDINATES

Approved: _____
By: _____ Principal Civil Engineer

Submitted: _____
By: _____

Planning: _____ Landscape: _____

AS BUILT

CONTRACTOR: _____
INSPECTOR: _____ DATE COMPLETED: _____

DRAWING NO. G013
XXXXX.XXX

ROUGH GRADING PLANS FOR OTAY RANCH VILLAGE 8 EAST
CV: 09220\&Eng\Rough Grading\09220RG13
W.O. NO. 2395-0079

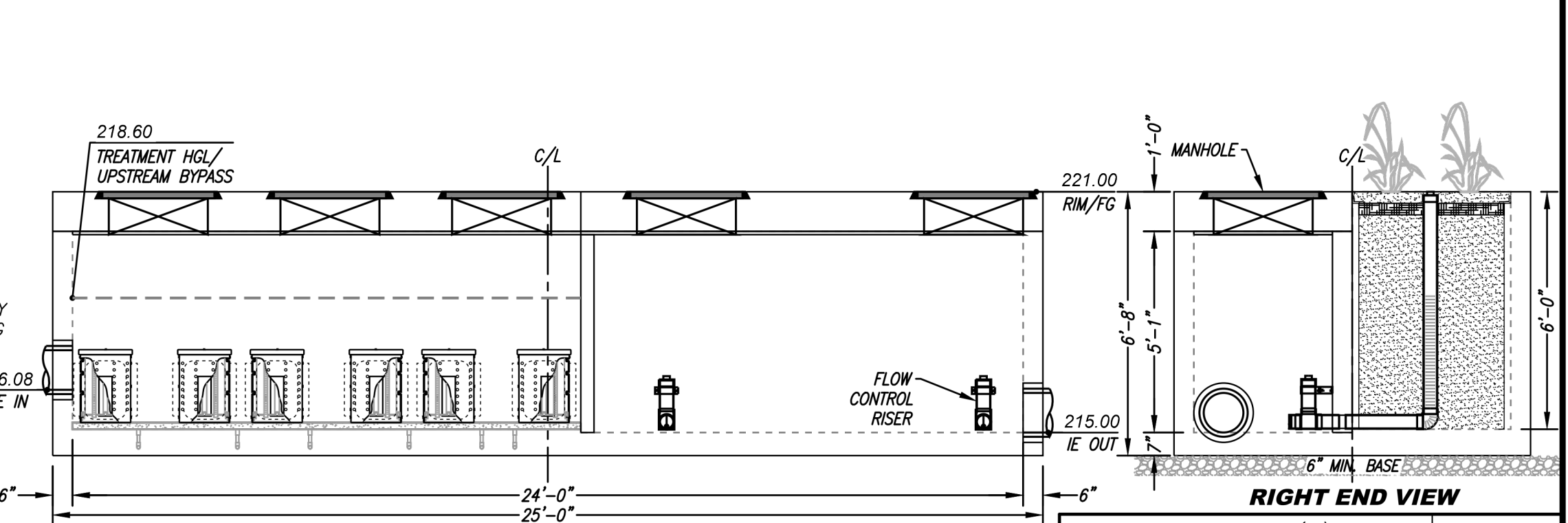
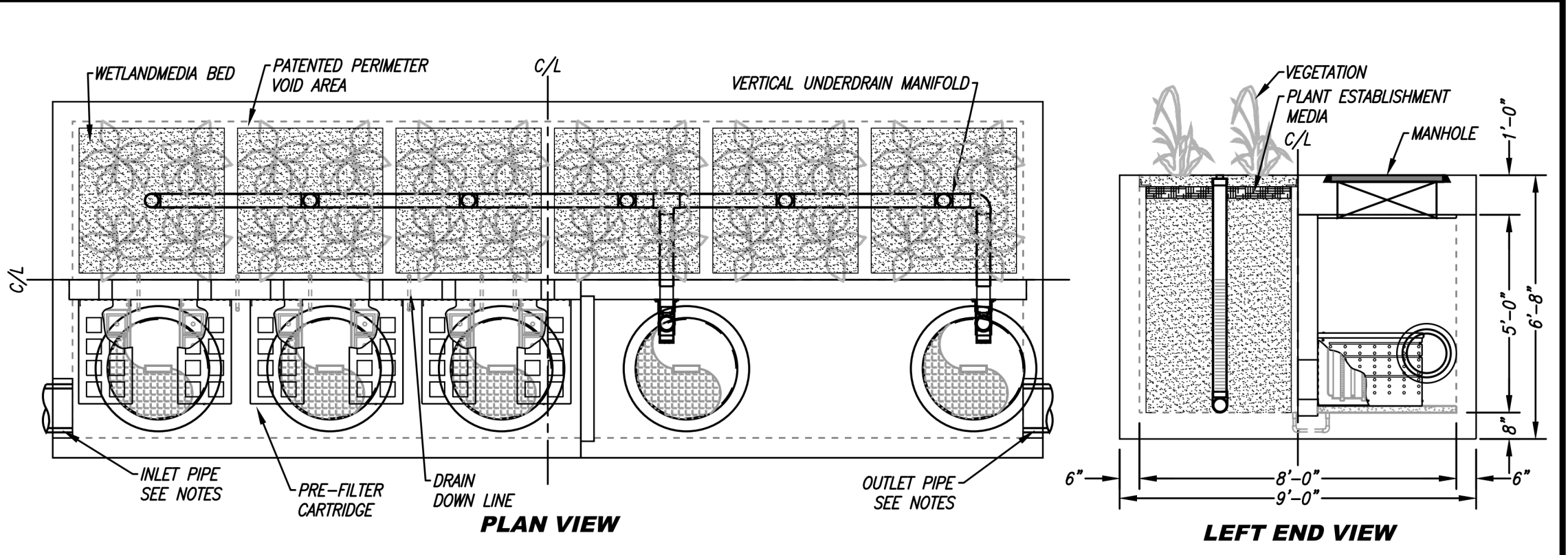
SITE SPECIFIC DATA	
PROJECT NUMBER	733072
PROJECT NAME	VILLAGE 8 EAST
PROJECT LOCATION	CHULA VISTA, CA
STRUCTURE ID	UNIT 1 OF 20
TREATMENT REQUIRED	
VOLUME BASED (CF)	MAX. DISCHARGE (CFS)
476,580 (23829 PER UNIT)	0.185
TREATMENT HGL AVAILABLE (FT)	N/A
PEAK BYPASS REQUIRED (CFS) - IF APPLICABLE	OFFLINE
PIPE DATA	I.E. MATERIAL DIAMETER
INLET PIPE 1	216.08 PVC 12"
INLET PIPE 2	N/A N/A N/A
OUTLET PIPE	215.00 RCP 12"
	PRETREATMENT BIOFILTRATION DISCHARGE
RIM ELEVATION	221.00 220.90 220.90
SURFACE LOAD	PEDESTRIAN N/A PEDESTRIAN
FRAME & COVER	3EA #30" OPEN PLANTER 2EA #30"
WETLANDMEDIA VOLUME (CY)	18.24
ORIFICE SIZE (DIA. INCHES)	#1.35 EA

INSTALLATION NOTES

- CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE SYSTEM AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURER'S SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURER'S CONTRACT.
- UNIT MUST BE INSTALLED ON LEVEL BASE. MANUFACTURER RECOMMENDS A MINIMUM 6" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE FOR VERIFYING PROJECT ENGINEER'S RECOMMENDED BASE SPECIFICATIONS.
- CONTRACTOR TO SUPPLY AND INSTALL ALL EXTERNAL CONNECTING PIPES. ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE (PIPES CANNOT INTRUDE BEYOND FLUSH). INVERT OF OUTFLOW PIPE MUST BE FLUSH WITH DISCHARGE CHAMBER FLOOR. ALL PIPES SHALL BE SEALED WATER TIGHT PER MANUFACTURER'S STANDARD CONNECTION DETAIL.
- CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL PIPES, RISERS, 6" MANHOLES, AND HATCHES. CONTRACTOR TO USE GROUT AND/OR BRICKS TO MATCH COVERS WITH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE.
- VEGETATION SUPPLIED AND INSTALLED BY OTHERS. ALL UNITS WITH VEGETATION MUST HAVE DRIP OR SPRAY IRRIGATION SUPPLIED AND INSTALLED BY OTHERS.
- CONTRACTOR RESPONSIBLE FOR CONTACTING BIO CLEAN FOR ACTIVATION OF UNIT. MANUFACTURER'S WARRANTY IS VOID WITHOUT PROPER ACTIVATION BY A BIO CLEAN REPRESENTATIVE.

GENERAL NOTES

- MANUFACTURER TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS AND CAPACITIES ARE SUBJECT TO CHANGE. FOR PROJECT SPECIFIC DRAWINGS DETAILING EXACT DIMENSIONS, WEIGHTS AND ACCESSORIES PLEASE CONTACT BIO CLEAN.



MWS-L-8-24-6'-0" V-HC STORMWATER BIOFILTRATION SYSTEM STANDARD DETAIL	
REQUIRED TREATMENT VOLUME (CF)	23,829
DRAINDOWN DURATION (HOURS)	36
MAXIMUM DISCHARGE RATE PER MWS UNIT (GPM)	83.12
OPERATING HEAD (FT)	3.6
WETLANDMEDIA INFILTRATION RATE (IN/HR)	26
WETLANDMEDIA LOADING RATE (GPM/SF)	0.26

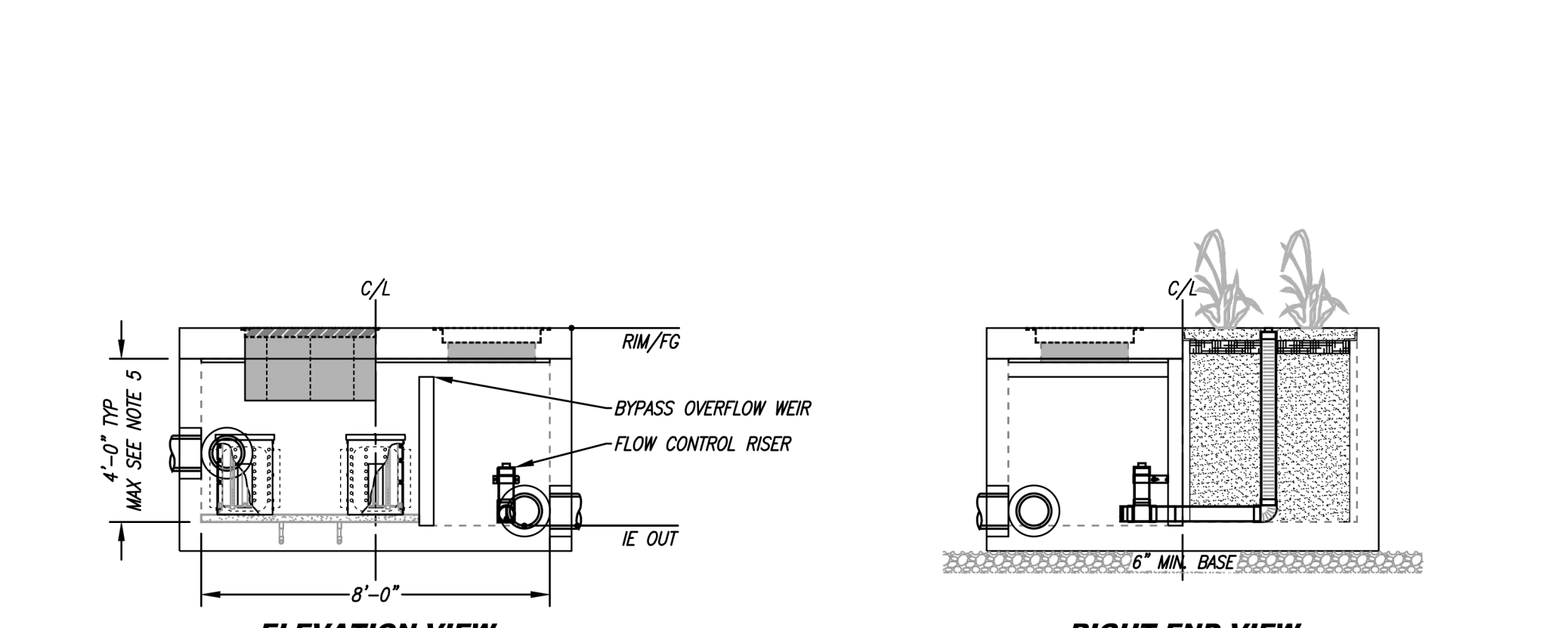
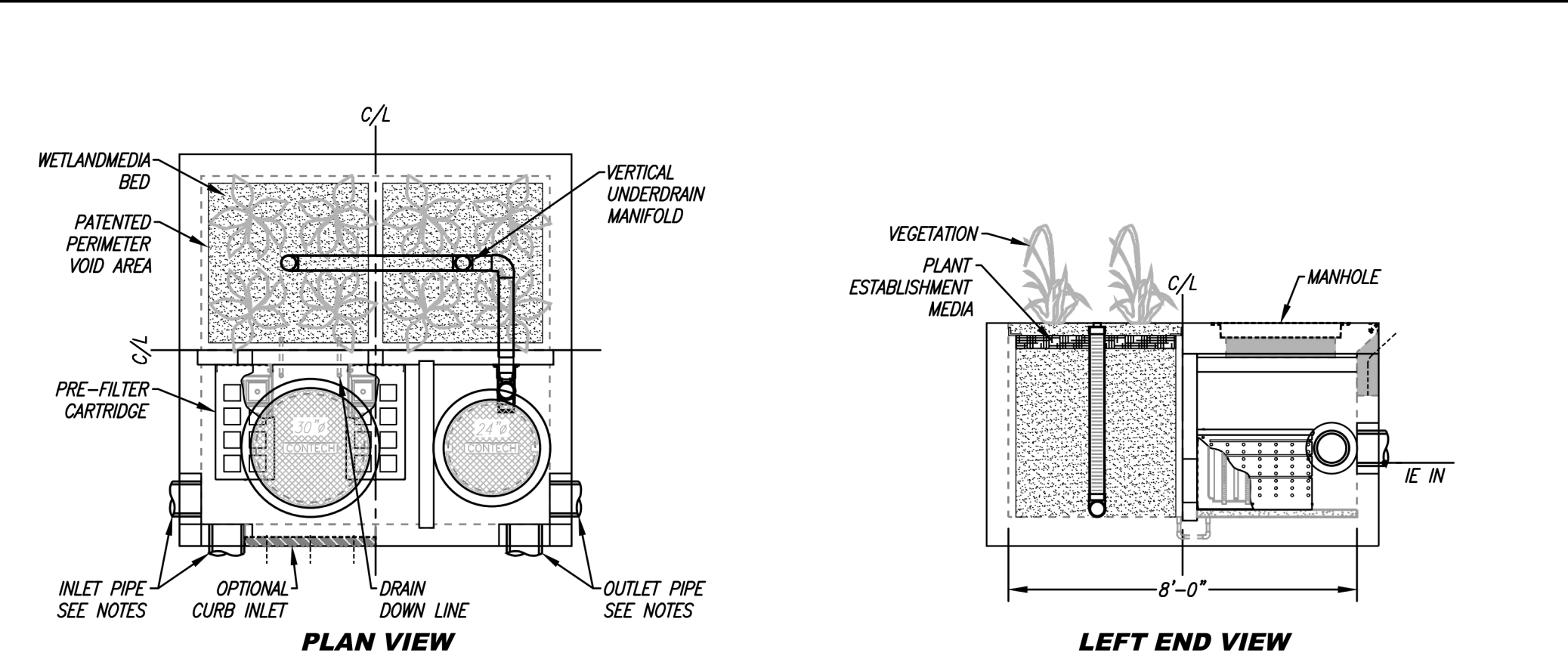
PRIVATE MODULAR WETLAND SYSTEM L-8-24-6'-0" V-HC
BMP BF-3-1, 1 OF 20 IDENTICAL UNITS (SEE SHEETS 15 & 33)
NOT TO SCALE

SITE SPECIFIC DATA	
PROJECT NUMBER	733072
PROJECT NAME	VILLAGE 8 EAST
PROJECT LOCATION	CHULA VISTA, CA
STRUCTURE ID	BF-3-4
TREATMENT REQUIRED	
TREATMENT FLOW (CFS)	0.230
PRETREATMENT LOADING RATE (GPM/SF)	
WETLAND MEDIA LOADING RATE (GPM/SF)	1.0
PEAK BYPASS REQUIRED (CFS) - IF APPLICABLE	(CFS)
PIPE DATA	I.E. MATERIAL DIAMETER
INLET PIPE 1	
INLET PIPE 2	
OUTLET PIPE	
	PRETREATMENT BIOFILTRATION DISCHARGE
RIM ELEVATION	
SURFACE LOAD	PEDESTRIAN

NOTES:
* PRELIMINARY ONLY - NOT FOR CONSTRUCTION

INSTALLATION NOTES

- CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE SYSTEM AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURER'S SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURER'S CONTRACT.
- UNIT MUST BE INSTALLED ON LEVEL BASE. MANUFACTURER RECOMMENDS A MINIMUM 6" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE FOR VERIFYING PROJECT ENGINEER'S RECOMMENDED BASE SPECIFICATIONS.
- CONTRACTOR TO SUPPLY AND INSTALL ALL EXTERNAL CONNECTING PIPES. ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE (PIPES CANNOT INTRUDE BEYOND FLUSH). INVERT OF OUTFLOW PIPE MUST BE FLUSH WITH DISCHARGE CHAMBER FLOOR. ALL PIPES SHALL BE SEALED WATER TIGHT PER MANUFACTURER'S STANDARD CONNECTION DETAIL.
- CONTRACTOR RESPONSIBLE FOR CONTACTING CONTECH FOR ACTIVATION OF UNIT. MANUFACTURER'S WARRANTY IS VOID WITHOUT PROPER ACTIVATION BY A CONTECH REPRESENTATIVE.
- VERTICAL HEIGHT VARIES BASED ON SITE SPECIFIC REQUIREMENTS.



MWS-L-8-4'-0" V STORMWATER BIOFILTRATION SYSTEM STANDARD DETAIL	
REQUIRED TREATMENT VOLUME (CF)	23,829
DRAINDOWN DURATION (HOURS)	36
MAXIMUM DISCHARGE RATE PER MWS UNIT (GPM)	83.12
OPERATING HEAD (FT)	3.6
WETLANDMEDIA INFILTRATION RATE (IN/HR)	26
WETLANDMEDIA LOADING RATE (GPM/SF)	0.26

PRIVATE MODULAR WETLAND SYSTEM L-8-4'-0" V
BMP BF-3-4 (SEE SHEET 16)
NOT TO SCALE

AS BUILT	UTILITY NOTE
SIGNATURE YOLANDA CALVO P.E. No. 61827 My Registration Expires _____ Discipline _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.

REFERENCE DRAWINGS	REVISIONS
C.V. DWG. NO. 02025-IMP. PLANS C.V. DWG. NO. 04068-GRADING PLANS C.V. DWG. NO. 04078-IMP. PLANS C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS C.V. DWG. NO. 14012-IMP. PLANS C.V. DWG. NO. 18016-GRADING PLANS C.V. DWG. NO. 19036-IMP. PLANS

REVISIONS	By	Date	App'd	REVISIONS	By	Date	App'd

Designed By:	Drawn By:	Checked By:
A.C.G./P.A.A.	P.A.A.	Y.C.
Plans Prepared Under Supervision Of: _____ Date: _____		
YOLANDA CALVO R.C.E. No. 61827		



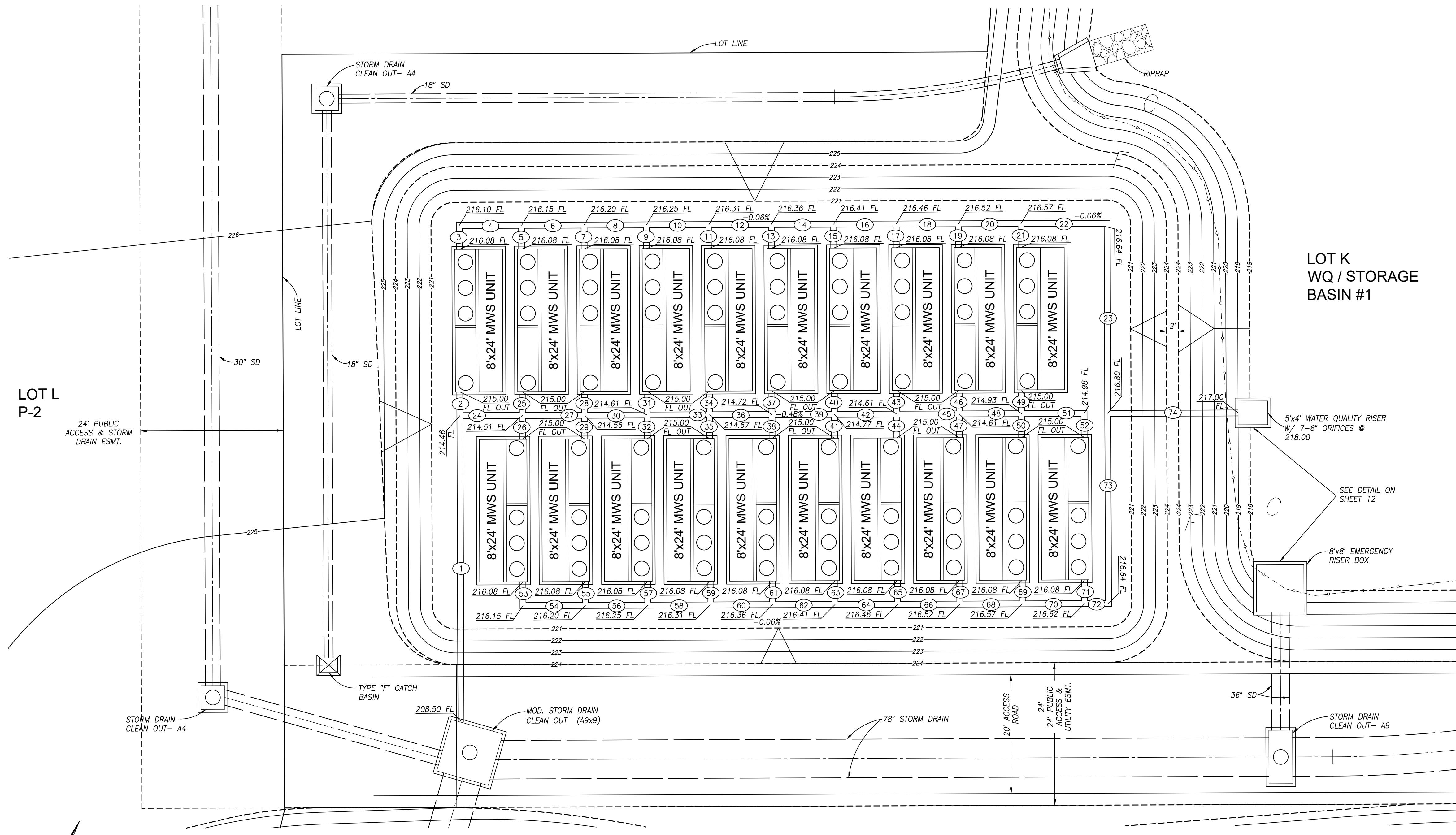
THE CITY OF CHULA VISTA

DETAILS SHEET FOR OTAY RANCH VILLAGE 8 EAST CHULA VISTA TRACT NO. 22-0005	
DEVELOPMENT SERVICES DEPARTMENT	
Approved: _____	ACCELA NO.: XXXX
By: _____ Principal Civil Engineer	PROJECT NO.: XXXX
Submitted: _____	TOTAL SHEETS: 90
By: _____	1796 - 6340
Planning: _____	NAD83 COORDINATES
Landscape: _____	154 - 1773
LAMBERT COORDINATES	
AS BUILT	
CONTRACTOR: _____	DRAWING NO. G014
INSPECTOR: _____	XXXXX.XXX
DATE COMPLETED: _____	

STORM DRAIN DATA

NO.	BEARING/Delta	RADIUS	LENGTH	REMARKS
1	N 27°43'00" W		51.44'	12" PVC PIPE*
2	N 27°43'00" W		4.00'	12" PVC PIPE*
3	N 27°43'00" W		4.00'	12" PVC PIPE*
4	N 62°17'00" E		10.50'	12" PVC PIPE*
5	N 27°43'00" W		4.00'	12" PVC PIPE*
6	N 62°17'00" E		10.50'	12" PVC PIPE*
7	N 27°43'00" W		4.00'	12" PVC PIPE*
8	N 62°17'00" E		10.50'	12" PVC PIPE*
9	N 27°43'00" W		4.00'	12" PVC PIPE*
10	N 62°17'00" E		10.50'	12" PVC PIPE*
11	N 27°43'00" W		4.00'	12" PVC PIPE*
12	N 62°17'00" E		10.50'	12" PVC PIPE*
13	N 27°43'00" W		4.00'	12" PVC PIPE*
14	N 62°17'00" E		10.50'	12" PVC PIPE*
15	N 27°43'00" W		4.00'	12" PVC PIPE*
16	N 62°17'00" E		10.50'	12" PVC PIPE*
17	N 27°43'00" W		4.00'	12" PVC PIPE*
18	N 62°17'00" E		10.50'	12" PVC PIPE*
19	N 27°43'00" W		4.00'	12" PVC PIPE*
20	N 62°17'00" E		10.50'	12" PVC PIPE*
21	N 27°43'00" W		4.00'	12" PVC PIPE*
22	N 62°17'00" E		14.50'	12" PVC PIPE*
23	N 27°43'00" W		32.00'	12" PVC PIPE*
24	N 62°17'00" E		10.50'	12" PVC PIPE*
25	N 27°43'00" W		4.00'	12" PVC PIPE*
26	N 27°43'00" W		4.00'	12" PVC PIPE*
27	N 62°17'00" E		10.50'	12" PVC PIPE*
28	N 27°43'00" W		4.00'	12" PVC PIPE*
29	N 27°43'00" W		4.00'	12" PVC PIPE*
30	N 62°17'00" E		10.50'	12" PVC PIPE*
31	N 27°43'00" W		4.00'	12" PVC PIPE*
32	N 27°43'00" W		4.00'	12" PVC PIPE*
33	N 62°17'00" E		10.50'	12" PVC PIPE*
34	N 27°43'00" W		4.00'	12" PVC PIPE*
35	N 27°43'00" W		4.00'	12" PVC PIPE*
36	N 62°17'00" E		10.50'	12" PVC PIPE*
37	N 27°43'00" W		4.00'	12" PVC PIPE*
38	N 27°43'00" W		4.00'	12" PVC PIPE*
39	N 62°17'00" E		10.50'	12" PVC PIPE*
40	N 27°43'00" W		4.00'	12" PVC PIPE*
41	N 27°43'00" W		4.00'	12" PVC PIPE*
42	N 62°17'00" E		10.50'	12" PVC PIPE*
43	N 27°43'00" W		4.00'	12" PVC PIPE*
44	N 27°43'00" W		4.00'	12" PVC PIPE*
45	N 62°17'00" E		10.50'	12" PVC PIPE*
46	N 27°43'00" W		4.00'	12" PVC PIPE*
47	N 27°43'00" W		4.00'	12" PVC PIPE*
48	N 62°17'00" E		10.50'	12" PVC PIPE*
49	N 27°43'00" W		4.00'	12" PVC PIPE*
50	N 27°43'00" W		4.00'	12" PVC PIPE*
51	N 62°17'00" E		10.50'	12" PVC PIPE*
52	N 27°43'00" W		4.00'	12" PVC PIPE*
53	N 27°43'00" W		4.00'	12" PVC PIPE*
54	N 62°17'00" E		10.50'	12" PVC PIPE*
55	N 27°43'00" W		4.00'	12" PVC PIPE*
56	N 62°17'00" E		10.50'	12" PVC PIPE*
57	N 27°43'00" W		4.00'	12" PVC PIPE*
58	N 62°17'00" E		10.50'	12" PVC PIPE*
59	N 27°43'00" W		4.00'	12" PVC PIPE*
60	N 62°17'00" E		10.50'	12" PVC PIPE*
61	N 27°43'00" W		4.00'	12" PVC PIPE*
62	N 62°17'00" E		10.50'	12" PVC PIPE*
63	N 27°43'00" W		4.00'	12" PVC PIPE*
64	N 62°17'00" E		10.50'	12" PVC PIPE*
65	N 27°43'00" W		4.00'	12" PVC PIPE*
66	N 62°17'00" E		10.50'	12" PVC PIPE*
67	N 27°43'00" W		4.00'	12" PVC PIPE*
68	N 62°17'00" E		10.50'	12" PVC PIPE*
69	N 27°43'00" W		4.00'	12" PVC PIPE*
70	N 62°17'00" E		10.50'	12" PVC PIPE*
71	N 27°43'00" W		4.00'	12" PVC PIPE*
72	N 62°17'00" E		4.00'	12" PVC PIPE*
73	N 27°43'00" W		32.00'	12" PVC PIPE*
74	N 62°17'00" E		21.92'	12" PVC PIPE*

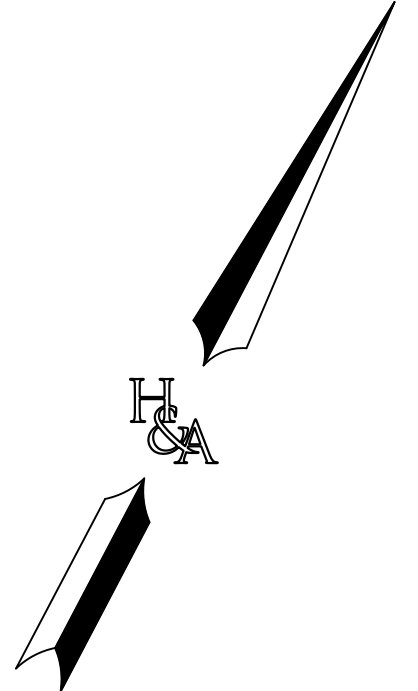
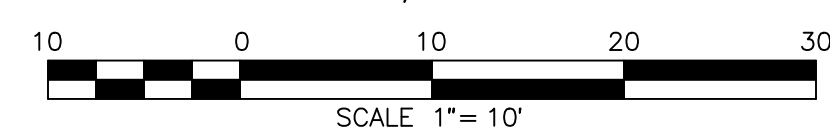
*SDR-35



LOT K
WQ / STORAGE
BASIN #1

LOT L
P-2

SEE SHEET 14 FOR ADDITIONAL
DETAILS AND 35 FOR GRADING



DETAILS SHEET FOR
OTAY RANCH VILLAGE 8 EAST
CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT

ACCELA NO.: XXXX
PROJECT NO.: XXXX
TOTAL SHEETS: 90
1796 - 6340
NAD83 COORDINATES
154 - 1773
LAMBERT COORDINATES

Approved: _____
By: _____ Principal Civil Engineer

Submitted: _____
By: _____

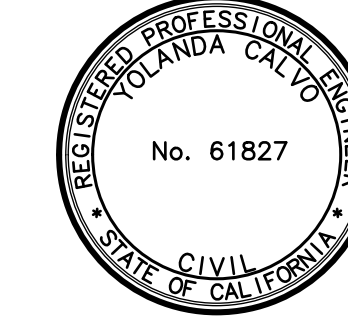
Planning: _____ Landscape: _____

AS BUILT

CONTRACTOR: _____ DRAWING NO. G015
INSPECTOR: _____ DATE COMPLETED: _____

H&A
HUNSAKER & ASSOCIATES
SAN DIEGO, INC.

PLANNING ENGINEERING SURVEYING
9707 WAPLES STREET
San Diego, Ca 92121
PH: 619-558-4500 FAX: 619-558-1414



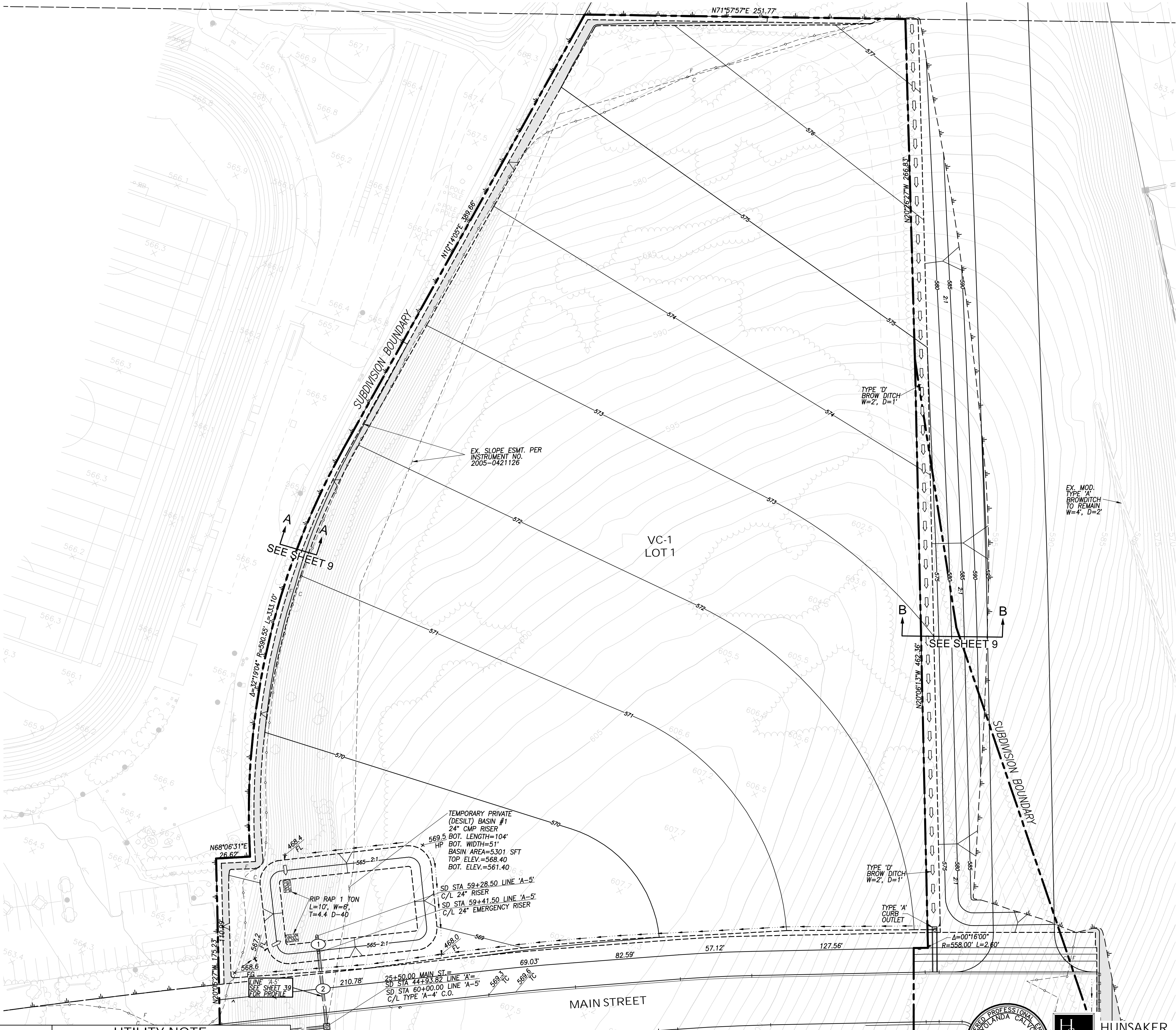
THE CITY OF
CHULA VISTA

Designed By: A.C.G./P.A.A. Drawn By: P.A.A. Checked By: Y.C.
Plans Prepared Under Supervision Of: _____ Date: _____
YOLANDA CALVO R.C.E. No. 61827

AS BUILT		UTILITY NOTE	
Signature: YOLANDA CALVO	Date: _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
Printed Name: YOLANDA CALVO	P.E. No.: 61827		
My Registration Expires: _____	Discipline: _____		
REFERENCE DRAWINGS			
C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS	SR-125 PLANS-11232304	
C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS	
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS	
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS	

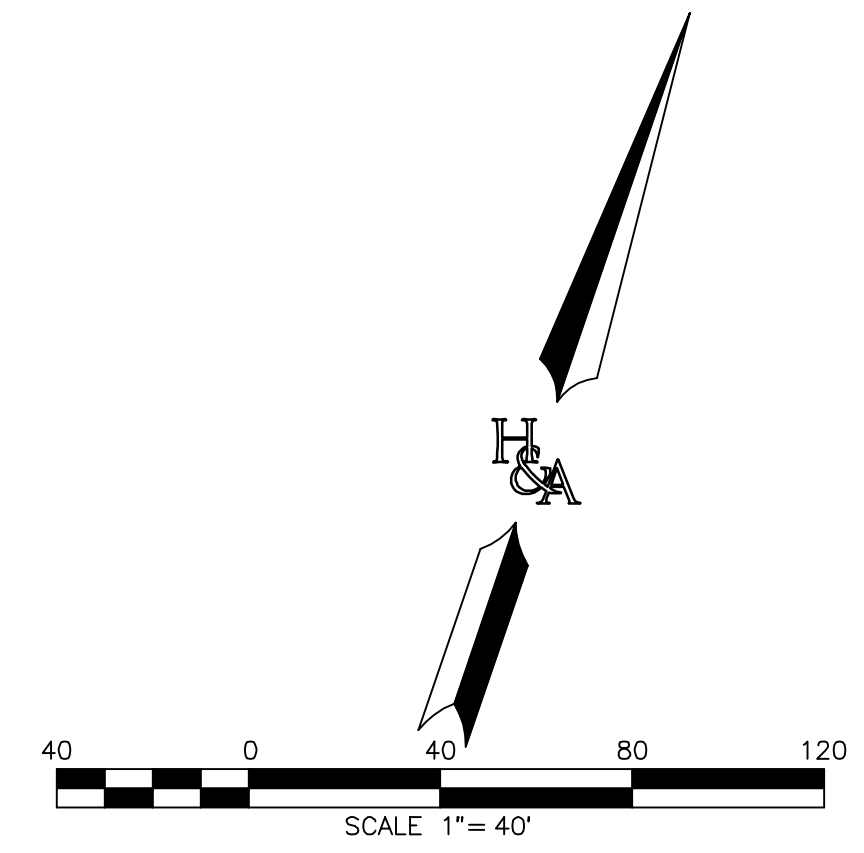
REVISIONS				REVISIONS			
By	Date	App'd		By	Date	App'd	

ROUGH GRADING PLANS FOR OTAY RANCH VILLAGE 8 EAST



STORM DRAIN DATA

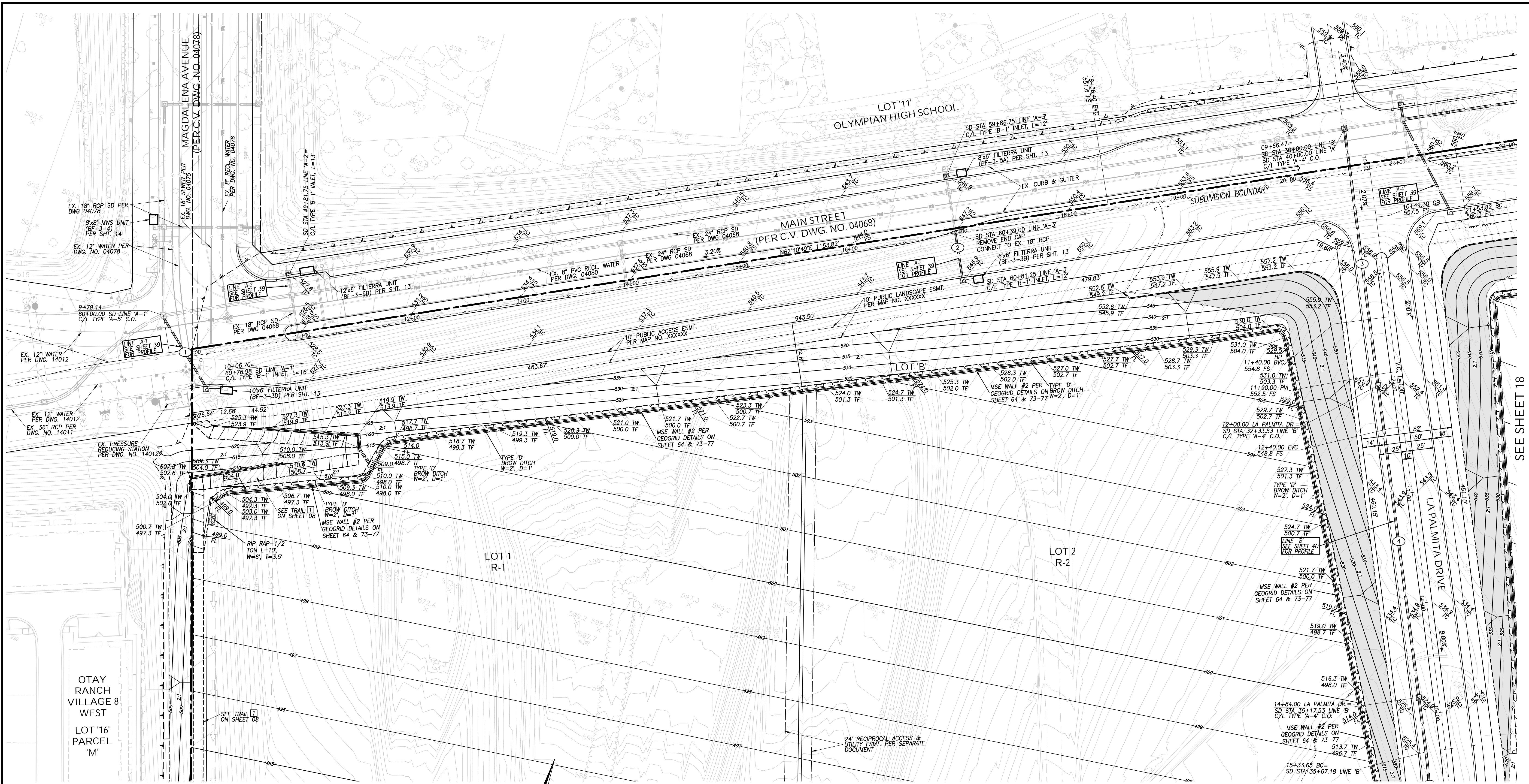
NO.	BEARING/DELTA	RADIUS	LENGTH	REMARKS
1	N 25°02'48" W		11.00'	24" HDPE
2	N 25°02'48" W		55.50'	24" HDPE



AS BUILT		UTILITY NOTE	
SIGNATURE YOLANDA CALVO	Date P.E. No. 61827	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
My Registration Expires _____ Discipline _____			
REFERENCE DRAWINGS		REVISIONS	
C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS	SR-125 PLANS-11232304	
C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS	
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS	
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS	

DESIGNED BY: A.C.G./P.A.A.			DRAWN BY: P.A.A.			CHECKED BY: Y.C.		
PLANS PREPARED UNDER SUPERVISION OF: YOLANDA CALVO			DATE: _____			R.C.E. No. 61827		
HUNSAKER & ASSOCIATES SAN DIEGO, INC. PLANNING 9707 WARLES STREET ENGINEERING San Diego, Ca 92121 SURVEYING PH(619)558-4500 FX(619)558-1414								
THE CITY OF CHULA VISTA								

ROUGH GRADING PLANS SHEET FOR OTAY RANCH VILLAGE 8 EAST CHULA VISTA TRACT NO. 22-0005	
DEVELOPMENT SERVICES DEPARTMENT	
Approved: _____ By: _____ Submitted: _____ By: _____ Planning: _____ Landscape: _____	ACCELA NO.: XXXX PROJECT NO.: XXXX TOTAL SHEETS: 90 1796 - 6340 NAD83 COORDINATES 154 - 1773 LAMBERT COORDINATES
AS BUILT	
CONTRACTOR: _____ INSPECTOR: _____	DRAWING NO. G016 XXXXX.XXX DATE COMPLETED: _____

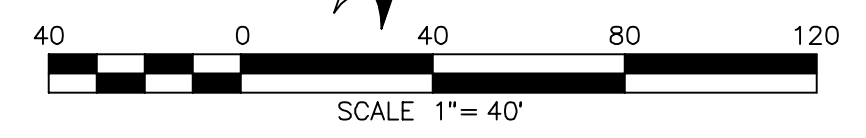


SEE SHEET 18
ROUGH GRADING PLANS FOR
OTAY RANCH VILLAGE 8 EAST

SEE SHEET 19

STORM DRAIN DATA				
NO.	BEARING/DELTA	RADIUS	LENGTH	REMARKS
1	N 50°17'30" W	72.48'	18" RCP	
2	N 27°49'11" W	40.25'	18" RCP	
3	N 26°17'00" W	229.53'	24" HDPE	
4	N 26°17'00" W	280.00'	24" HDPE	

AS BUILT		UTILITY NOTE	
SIGNATURE	Date	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
YOLANDA CALVO	P.E. No. 61827		
My Registration Expires	Discipline		



REFERENCE DRAWINGS				REVISIONS			
C.V. DWG. NO.	DESCRIPTION	DATE	BY	C.V. DWG. NO.	DESCRIPTION	DATE	BY
C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS			SR-125 PLANS-11232304			
C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS			C.V. DWG. NO. 20028-GRADING PLANS			
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS			C.V. DWG. NO. 20029-GRADING PLANS			
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS			C.V. DWG. NO. 22043-GRADING PLANS			

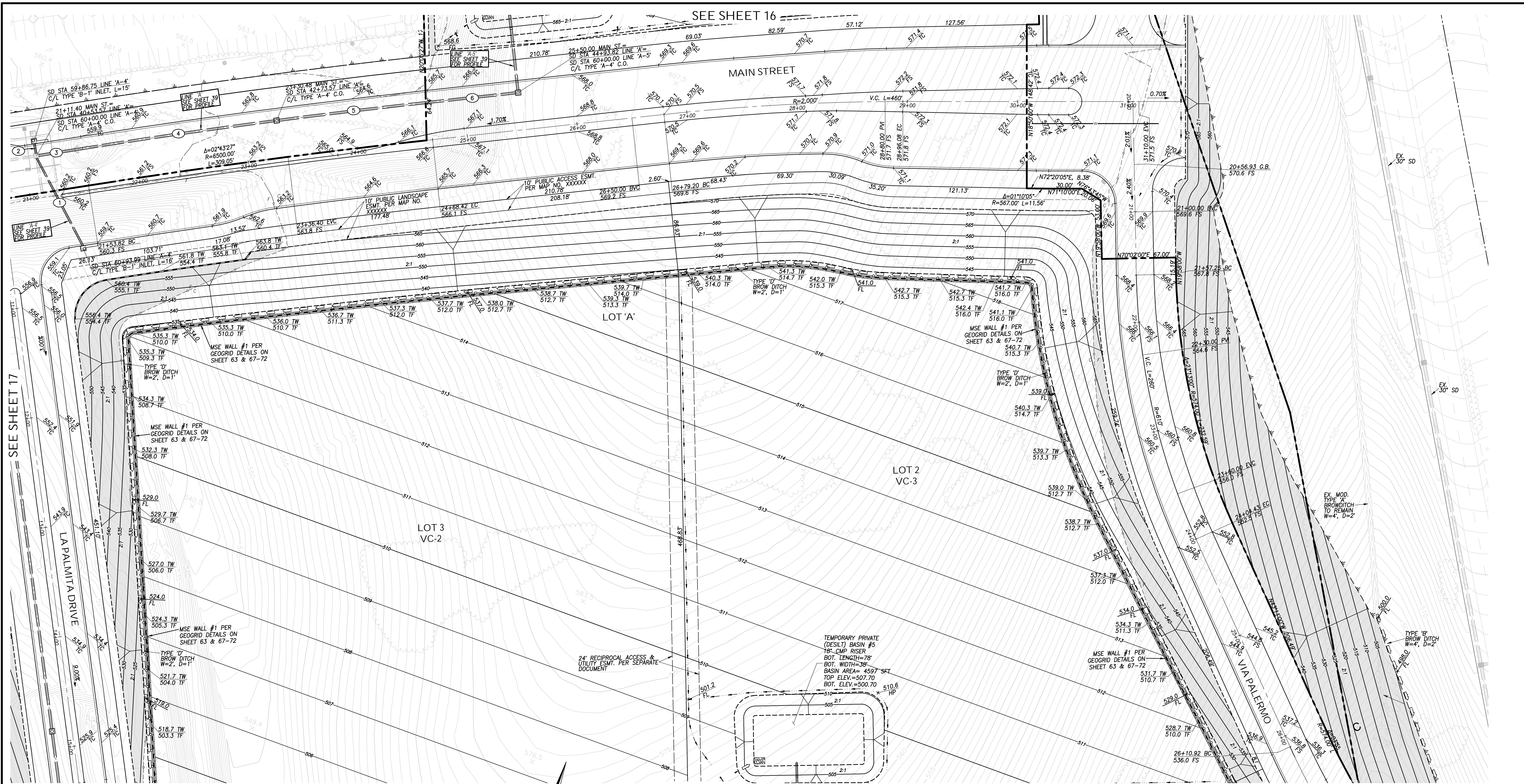
DESIGNED BY	DRAWN BY	CHECKED BY
A.C.G./P.A.A.	P.A.A.	Y.C.
Planned Under Supervision Of: _____ Date: _____		
YOLANDA CALVO R.C.E. No. 61827		



HUNSAKER & ASSOCIATES
SAN DIEGO, INC.
PLANNING 9707 WARLES STREET
ENGINEERING San Diego, Ca 92121
SURVEYING PH(619)558-4500 FX(619)558-1414

THE CITY OF CHULA VISTA

ROUGH GRADING PLANS SHEET FOR OTAY RANCH VILLAGE 8 EAST		CHULA VISTA TRACT NO. 22-0005	
DEVELOPMENT SERVICES DEPARTMENT		ACCELA NO.: XXXX	
Approved: _____		PROJECT NO.: XXXX	
By: _____ Principal Civil Engineer		TOTAL SHEETS: 90	
Submitted: _____		1796 - 6340	
By: _____		NAD83 COORDINATES	
Planning: _____ Landscape: _____		154 - 1773	
AS BUILT		LAMBERT COORDINATES	
DRAWING NO. G017		CONTRACTOR: XXXXX.XXX	
INSPECTOR: _____		DATE COMPLETED: _____	



SEE SHEET 16

SEE SHEET 20

SEE SHEET 17

ROUGH GRADING PLANS FOR OTAY RANCH VILLAGE 8 EAST

STORM DRAIN DATA

BEARING/Delta	RADIUS	LENGTH	REMARKS
1 N 46°29'50" W	89.99'	18" RCP	
2 N 27°49'11" W	9.25'	18" RCP	
3 N 62°10'49" E	40.42'	24" RCP	
4 1°32'23"	6534.00'	175.58" 24" RCP	
5 1°11'54"	6534.00'	136.66" 24" RCP	
6 N 64°57'12" E	79.58'	24" RCP	

ROUGH GRADING PLANS SHEET FOR OTAY RANCH VILLAGE 8 EAST
 CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT

ACCELA NO.: XXXX
 PROJECT NO.: XXXX
 TOTAL SHEETS: 90
 1796 - 6340
 NAD83 COORDINATES
 154 - 1773
 LAMBERT COORDINATES

AS BUILT UTILITY NOTE

ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.

REFERENCE DRAWINGS

C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS	SR-125 PLANS-11232304
C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS

REVISIONS

REVISIONS	By	Date	App'd	REVISIONS	By	Date	App'd

Designed By: A.C.G./P.A.A.
 Drawn By: P.A.A.
 Checked By: Y.C.
 Plans Prepared Under Supervision Of: YOLANDA CALVO
 Date: 6/18/27
 R.C.E. No. 61827



HUNSAKER & ASSOCIATES
 SAN DIEGO, INC.
 PLANNING 9707 WARLES STREET
 ENGINEERING San Diego, Ca 92121
 SURVEYING PH(619)558-4500 FX(619)558-1414

THE CITY OF CHULA VISTA

AS BUILT

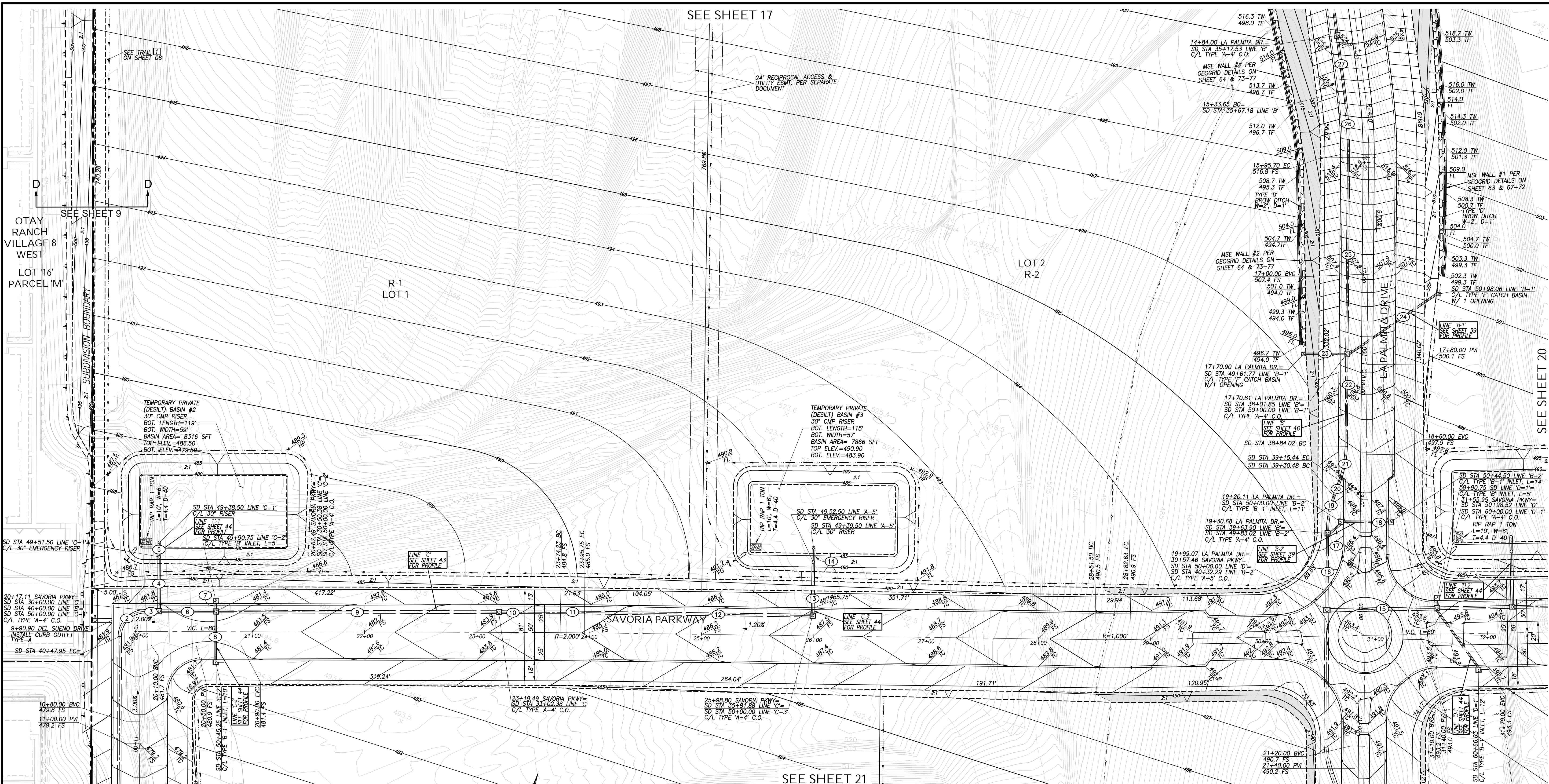
CONTRACTOR: XXXXX.XXX
 INSPECTOR: _____ DATE COMPLETED: _____

DRAWING NO. G018

SEE SHEET 17

SEE SHEET 20

SEE SHEET 21



STORM DRAIN DATA

LINE NO.	BEARING/DELTA	RADIUS	LENGTH	REMARKS
19	89°59'05"	22.50'	35.34'	36" HDPE
3	N 71°19'00" E		10.61'	36" HDPE
4	N 18°41'00" W		45.25'	30" HDPE
5	N 18°41'00" W		10.50'	30" HDPE
6	N 71°19'00" E		46.38'	30" HDPE
7	N 18°41'00" W		5.25'	18" HDPE
8	N 18°41'00" W		41.25'	18" HDPE
9	N 71°19'00" E		248.00'	30" HDPE
10	N 71°19'00" E		52.74'	30" HDPE
11	0°37'00"	2018.00'	21.72'	30" HDPE
12	N 71°56'00" E		201.05'	30" HDPE
13	N 18°04'00" W		44.25'	30" HDPE
14	N 18°04'00" W		10.50'	30" HDPE
15	N 70°09'00" E		93.52'	36" HDPE
16	N 18°23'00" W		64.39'	24" HDPE
17	N 30°19'34" E		12.98'	18" HDPE
18	N 71°37'00" E		40.25'	18" HDPE

STORM DRAIN DATA

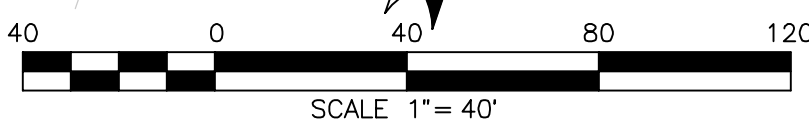
LINE NO.	BEARING/DELTA	RADIUS	LENGTH	REMARKS
19	20°00'00"	90.00'	31.42'	24" HDPE
20	N 1°37'00" E		15.04'	24" HDPE
21	20°00'00"	90.00'	31.42'	24" HDPE
22	N 18°23'00" W		80.17'	24" HDPE
23	N 18°23'00" W		35.00'	18" HDPE
24	N 36°44'41" E		94.84'	18" HDPE
25	N 18°23'00" W		173.11'	24" HDPE
26	7°54'00"	432.00'	59.56'	24" HDPE
27	N 26°17'00" W		47.65'	24" HDPE

AS BUILT

SIGNATURE: _____ Date: _____
 YOLANDA CALVO P.E. No. 61827
 My Registration Expires: _____ Discipline: _____

UTILITY NOTE

ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.



REFERENCE DRAWINGS

C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS	SR-125 PLANS-11232304
C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS

REVISIONS

By	Date	App'd	REVISIONS	By	Date	App'd

Designed By: A.C.G./P.A.A. Drawn By: P.A.A. Checked By: Y.C.
 Plans Prepared Under Supervision Of: _____ Date: _____
 YOLANDA CALVO R.C.E. No. 61827

THE CITY OF CHULA VISTA

HUNSAKER & ASSOCIATES
 SAN DIEGO, INC.
 9707 WAPLES STREET
 SAN DIEGO, CA 92121
 PH: 619-558-4500 FAX: 619-558-1414

REGISTERED PROFESSIONAL ENGINEER
 YOLANDA CALVO
 No. 61827
 CIVIL
 STATE OF CALIFORNIA

ROUGH GRADING PLANS SHEET FOR OTAY RANCH VILLAGE 8 EAST
 CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT

Approved: _____
 By: _____ Principal Civil Engineer

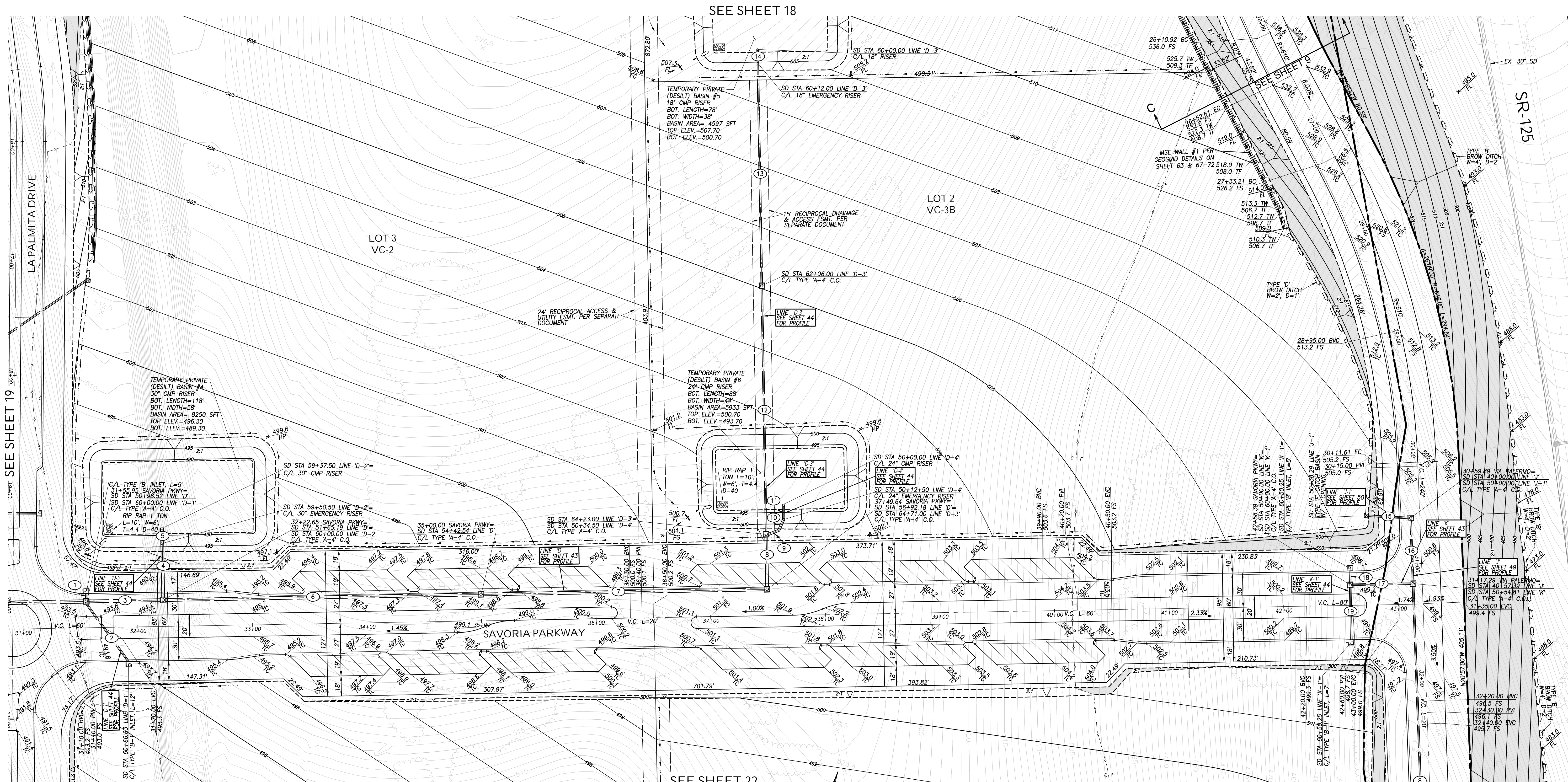
Submitted: _____
 By: _____

Planning: _____ Landscape: _____

AS BUILT

ACCELA NO.: XXXX
 PROJECT NO.: XXXX
 TOTAL SHEETS: 90
 1796 - 6340
 NAD83 COORDINATES
 154 - 1773
 LAMBERT COORDINATES

CONTRACTOR: _____ DRAWING NO. G019
 INSPECTOR: _____ DATE COMPLETED: _____



SEE SHEET 18

SEE SHEET 17

SEE SHEET 19

SR-125

ROUGH GRADING PLANS FOR OTAY RANCH VILLAGE 8 EAST

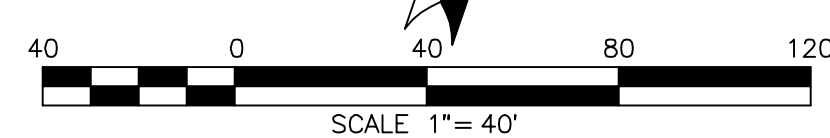
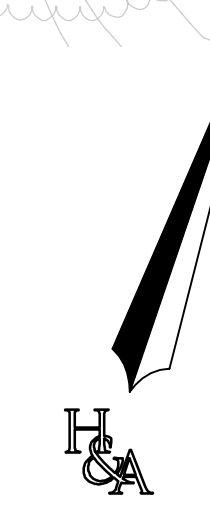
STORM DRAIN DATA

BEARING/DELTA	RADIUS	LENGTH	REMARKS
1 N 19°51'00" W		5.25'	18" HDPE
2 N 19°51'00" W		62.63'	18" HDPE
3 N 70°09'00" E		63.17'	30" HDPE
4 N 19°51'00" W		46.25'	30" HDPE
5 N 19°51'00" W		10.50'	30" HDPE
6 N 70°09'00" E		273.35'	30" HDPE
7 N 70°09'00" E		245.64'	30" HDPE
8 N 19°51'00" W		44.00'	30" HDPE
9 N 50°09'00" E		9.71'	24" HDPE
10 N 50°09'00" E		9.29'	24" HDPE

STORM DRAIN DATA

BEARING/DELTA	RADIUS	LENGTH	REMARKS
11 N 19°51'00" W		10.50'	24" HDPE
12 N 19°51'00" W		213.00'	18" HDPE
13 N 19°51'00" W		191.25'	18" HDPE
14 N 19°51'00" W		10.50'	18" HDPE
15 N 74°18'39" E		35.06'	18" HDPE
16 N 20°57'00" W		53.39'	18" HDPE
17 N 70°09'00" E		50.81'	18" HDPE
18 N 19°51'00" W		10.25'	18" HDPE
19 N 19°51'00" W		46.25'	18" HDPE

SEE SHEET 22



AS BUILT UTILITY NOTE

ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.

REFERENCE DRAWINGS	REVISIONS	By	Date	App'd
C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS			
C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS			
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS			
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS			
	C.V. DWG. NO. 20028-GRADING PLANS			
	C.V. DWG. NO. 20029-GRADING PLANS			
	C.V. DWG. NO. 22043-GRADING PLANS			

REVISIONS	By	Date	App'd	DESIGNED BY	DRAWN BY	CHECKED BY
				A.C.G./P.A.A.	P.A.A.	Y.C.
				Plans Prepared Under Supervision Of:		
				YOLANDA CALVO R.C.E. No. 61827		



HUNSAKER & ASSOCIATES
SAN DIEGO, INC.
PLANNING 9707 WARLES STREET
ENGINEERING San Diego, Ca 92121
SURVEYING PH858558-4500 FAX858558-1414

THE CITY OF CHULA VISTA

ROUGH GRADING PLANS SHEET FOR OTAY RANCH VILLAGE 8 EAST
CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT

Approved: _____
By: _____ Principal Civil Engineer

Submitted: _____
By: _____

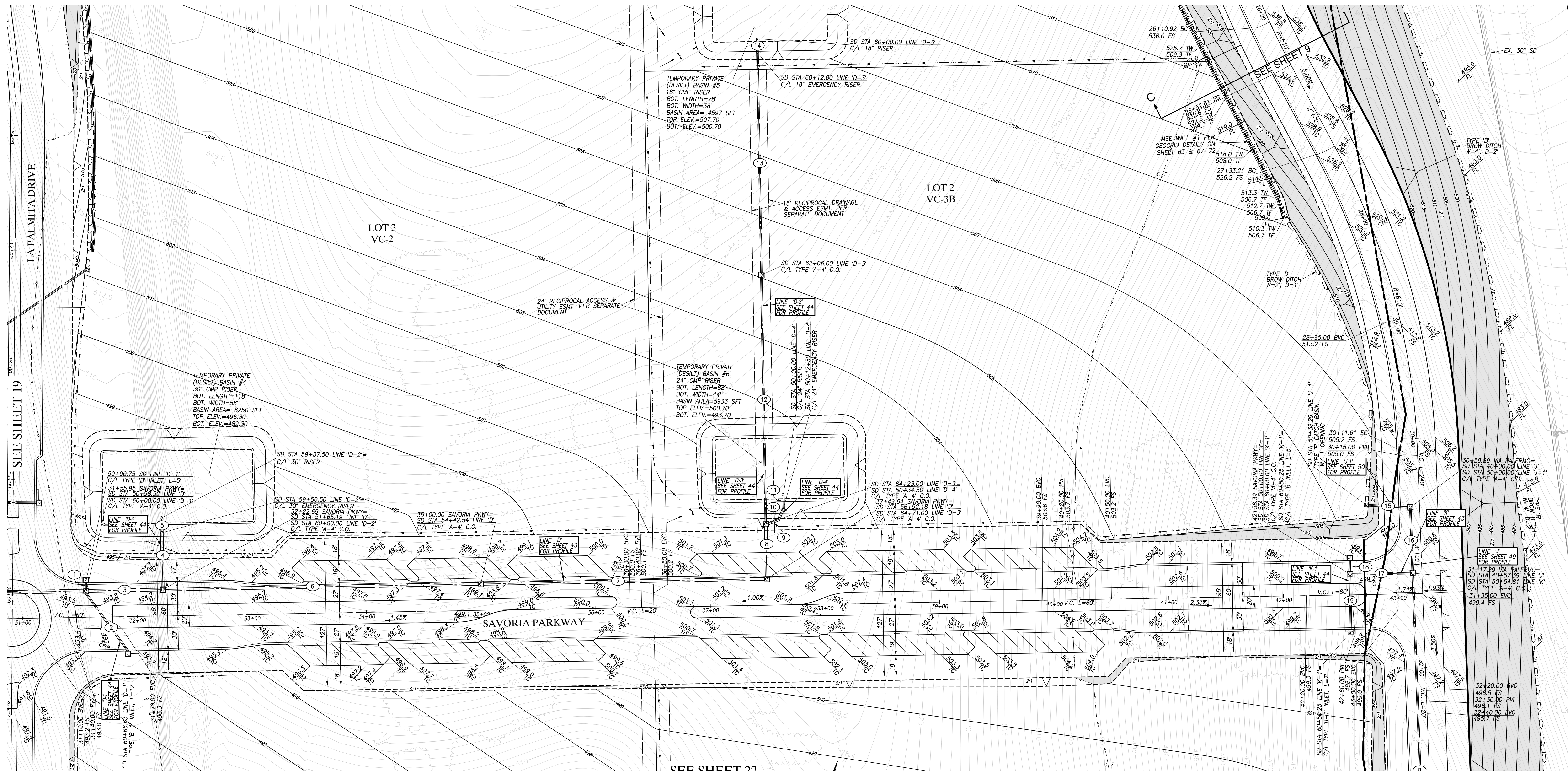
Planning: _____ Landscape: _____

AS BUILT

ACCELA NO.: XXXX
PROJECT NO.: XXXX
TOTAL SHEETS: 90
1796 - 6340
NAD83 COORDINATES
154 - 1773
LAMBERT COORDINATES

DRAWING NO. G020
CONTRACTOR: XXXXX.XXX
INSPECTOR: _____ DATE COMPLETED: _____

SEE SHEET 18



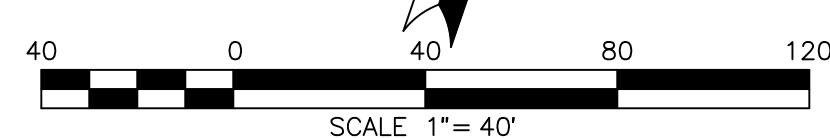
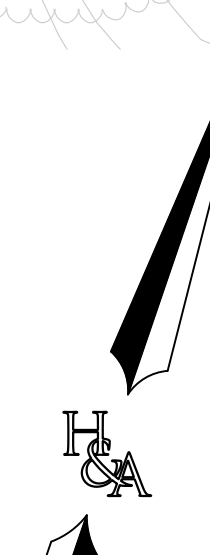
SEE SHEET 22

STORM DRAIN DATA

BEARING/Delta	RADIUS	LENGTH	REMARKS
1 N 19°51'00" W		5.25'	18" HDPE
2 N 19°51'00" W		62.63'	18" HDPE
3 N 70°09'00" E		63.17'	30" HDPE
4 N 19°51'00" W		46.25'	30" HDPE
5 N 19°51'00" W		10.50'	30" HDPE
6 N 70°09'00" E		273.35'	30" HDPE
7 N 70°09'00" E		245.64'	30" HDPE
8 N 19°51'00" W		44.00'	30" HDPE
9 N 50°09'00" E		9.71'	24" HDPE
10 N 50°09'00" E		9.29'	24" HDPE

STORM DRAIN DATA

BEARING/Delta	RADIUS	LENGTH	REMARKS
11 N 19°51'00" W		10.50'	24" HDPE
12 N 19°51'00" W		213.00'	18" HDPE
13 N 19°51'00" W		191.25'	18" HDPE
14 N 19°51'00" W		10.50'	18" HDPE
15 N 74°18'39" E		35.06'	18" HDPE
16 N 20°57'00" W		53.39'	18" HDPE
17 N 70°09'00" E		50.81'	18" HDPE
18 N 19°51'00" W		10.25'	18" HDPE
19 N 19°51'00" W		46.25'	18" HDPE



AS BUILT

Signature: YOLANDA CALVO P.E. No. 61827

My Registration Expires: _____ Discipline: _____

UTILITY NOTE

ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.

REFERENCE DRAWINGS

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C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS

REVISIONS

REVISIONS	By	Date	App'd

Designed By: A.C.G./P.A.A. Drawn By: P.A.A. Checked By: Y.C.

Plans Prepared Under Supervision Of: _____ Date: _____

YOLANDA CALVO R.C.E. No. 61827



HUNSAKER & ASSOCIATES
SAN DIEGO, INC.

PLANNING 9707 WAPLES STREET
ENGINEERING San Diego, Ca 92121
SURVEYING PH4858558-4500 FAX5858558-1414

THE CITY OF CHULA VISTA

ROUGH GRADING PLANS SHEET FOR OTAY RANCH VILLAGE 8 EAST

CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT

Approved: _____ ACCELA NO.: XXXX

By: _____ Principal Civil Engineer PROJECT NO.: XXXX

Submitted: _____ TOTAL SHEETS: 90

By: _____ NAD83 COORDINATES

Planning: _____ Landscape: _____ 154 - 1773

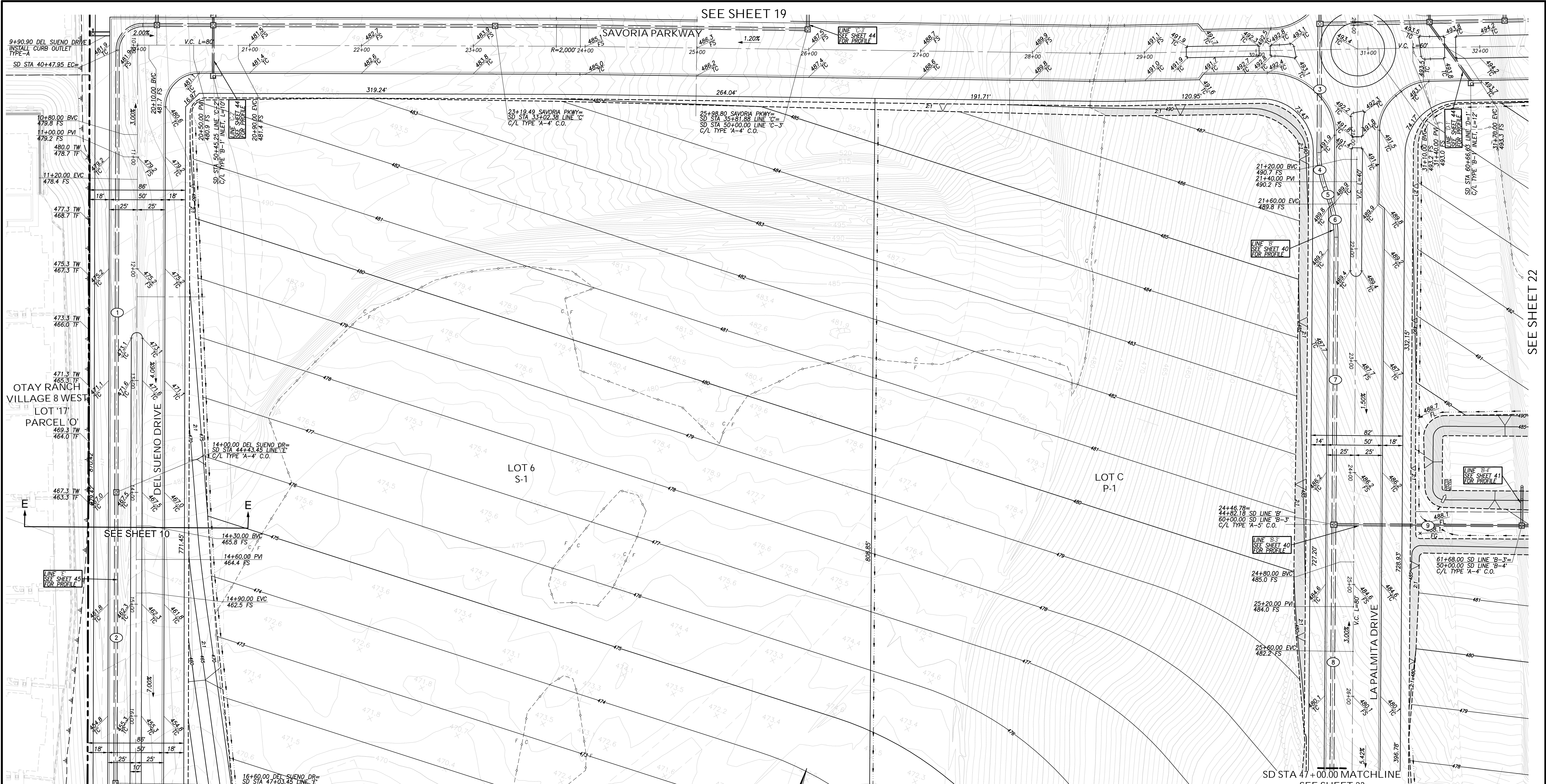
AS BUILT LAMBERT COORDINATES

CONTRACTOR: _____ DRAWING NO. G020

INSPECTOR: _____ DATE COMPLETED: _____

ROUGH GRADING PLANS FOR OTAY RANCH VILLAGE 8 EAST

C:\REVISED\XXXX\XX\W.O. NO. 2395-0079



SEE SHEET 19

SEE SHEET 22

SEE SHEET 23

STORM DRAIN DATA

NO.	BEARING/DELTA	RADIUS	LENGTH	REMARKS
1	N 18°40'05" W		393.50'	36" HDPE
2	N 18°40'05" W		256.00'	30" HDPE
3	N 18°23'00" W		112.98'	42" HDPE
4	20°00'00"	90.00'	31.42'	42" HDPE
5	N 38°23'00" W		15.04'	42" HDPE
6	20°00'00"	90.00'	31.42'	42" HDPE
7	N 18°23'00" W		255.04'	42" HDPE
8	N 18°23'00" W		215.82'	42" HDPE
9	N 71°28'00" E		163.50'	24" HDPE



AS BUILT

Signature: YOLANDA CALVO P.E. No. 61827

My Registration Expires: _____ Discipline: _____

UTILITY NOTE

ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.

REFERENCE DRAWINGS

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C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS

REVISIONS

NO.	REVISIONS	By	Date	App'd

Designed By: A.C.G./P.A.A. P.A.A. Checked By: Y.C.

Plans Prepared Under Supervision Of: _____ Date: _____

YOLANDA CALVO R.C.E. No. 61827

THE CITY OF CHULA VISTA



HUNSAKER & ASSOCIATES
SAN DIEGO, INC.

PLANNING 9707 WARLES STREET
ENGINEERING San Diego, Ca 92121
SURVEYING PH(619)558-4500 FX(619)558-1414

ROUGH GRADING PLANS SHEET FOR OTAY RANCH VILLAGE 8 EAST

CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT

Approved: _____ ACCELA NO.: XXXX

By: _____ Principal Civil Engineer PROJECT NO.: XXXX

Submitted: _____ TOTAL SHEETS: 90

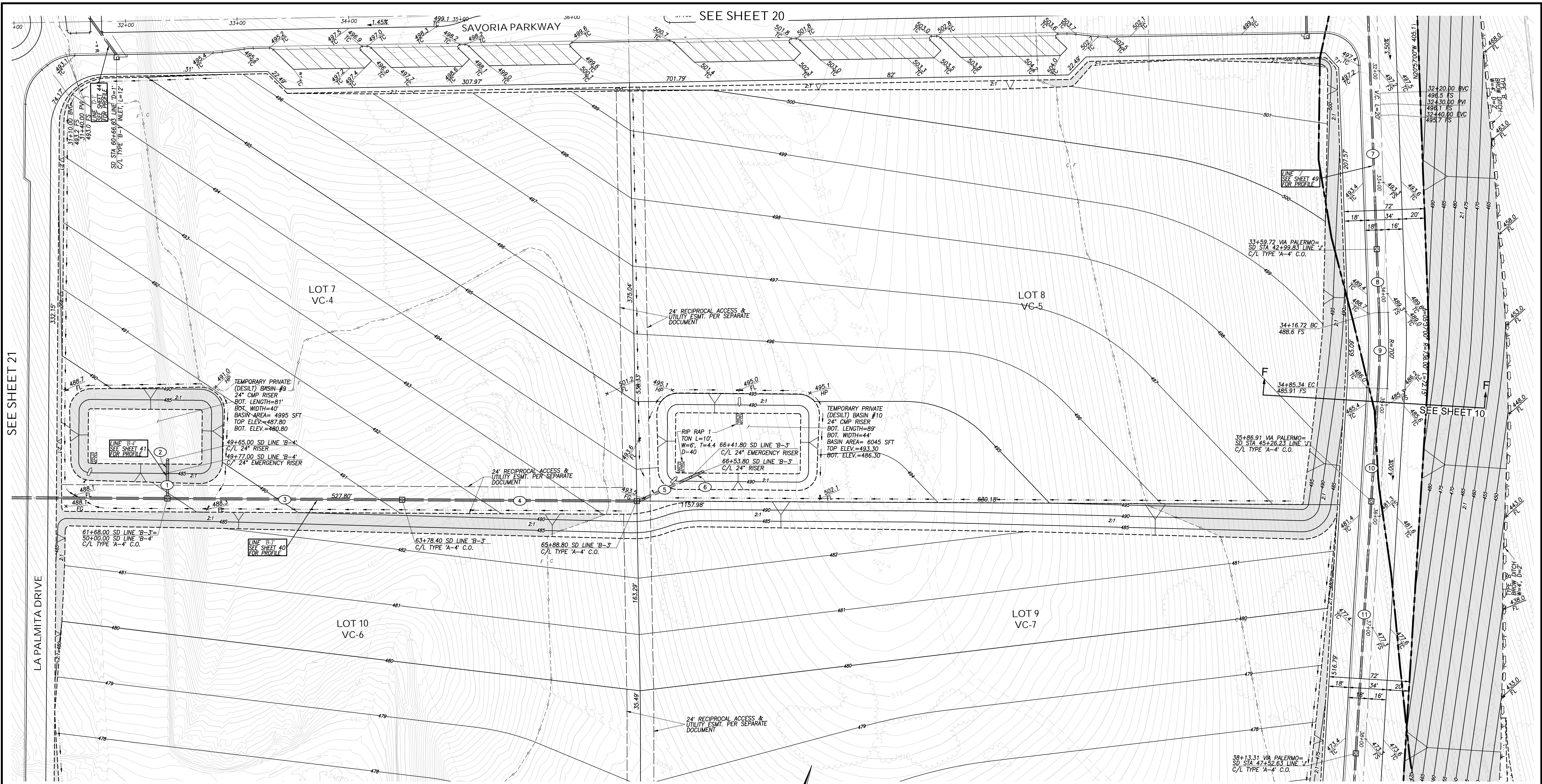
By: _____ 1796 - 6340

Planning: _____ Landscape: _____ NAD83 COORDINATES

AS BUILT

CONTRACTOR: _____ DRAWING NO. G021

INSPECTOR: _____ DATE COMPLETED: _____ XXXXX.XXX



SEE SHEET 21

SEE SHEET 20

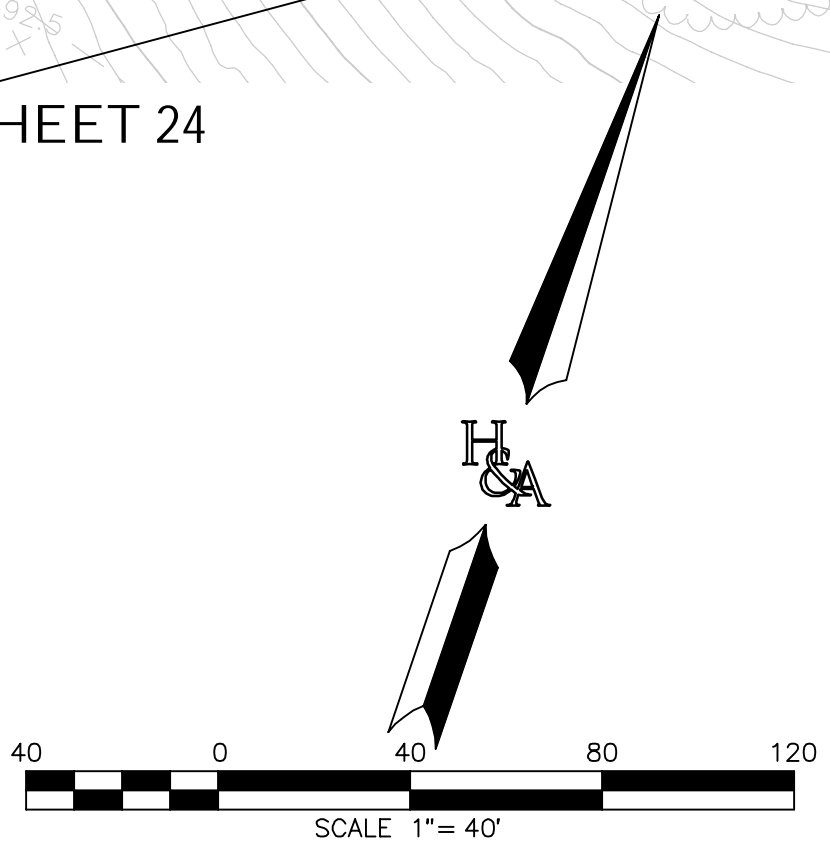
SEE SHEET 10

SEE SHEET 24

ROUGH GRADING PLANS FOR OTAY RANCH VILLAGE 8 EAST

AS BUILT		UTILITY NOTE	
SIGNATURE YOYLANDA CALVO	Date	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
My Registration Expires	Discipline	P.E. No. 61827	

BEARING/Delta	RADIUS	LENGTH	REMARKS
1 N 18°32'00" W		20.00'	24" HDPE
2 N 18°32'00" W		10.00'	24" HDPE
3 N 71°28'00" E		206.40'	24" HDPE
4 N 71°28'00" E		206.40'	24" HDPE
5 N 46°28'00" E		50.00'	24" HDPE
6 N 46°28'00" E		10.00'	24" HDPE
7 N 20°57'00" W		136.85'	18" HDPE
8 N 20°57'00" W		55.00'	18" HDPE
9 5°37'00"	692.00'	67.84'	18" HDPE
10 N 15°20'00" W		99.56'	18" HDPE
11 N 15°20'00" W		222.40'	18" HDPE



REFERENCE DRAWINGS			REVISIONS		
C.V. DWG. NO.	DESCRIPTION	DATE	By	Date	App'd
C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS	SR-125 PLANS-11232304			
C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS			
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS			
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS			

REVISIONS			REVISIONS		
By	Date	App'd	By	Date	App'd

Designed By:	Drawn By:	Checked By:
A.C.G./P.A.A.	P.A.A.	Y.C.
Plans Prepared Under Supervision Of: _____ Date: _____		
YOYLANDA CALVO R.C.E. No. 61827		



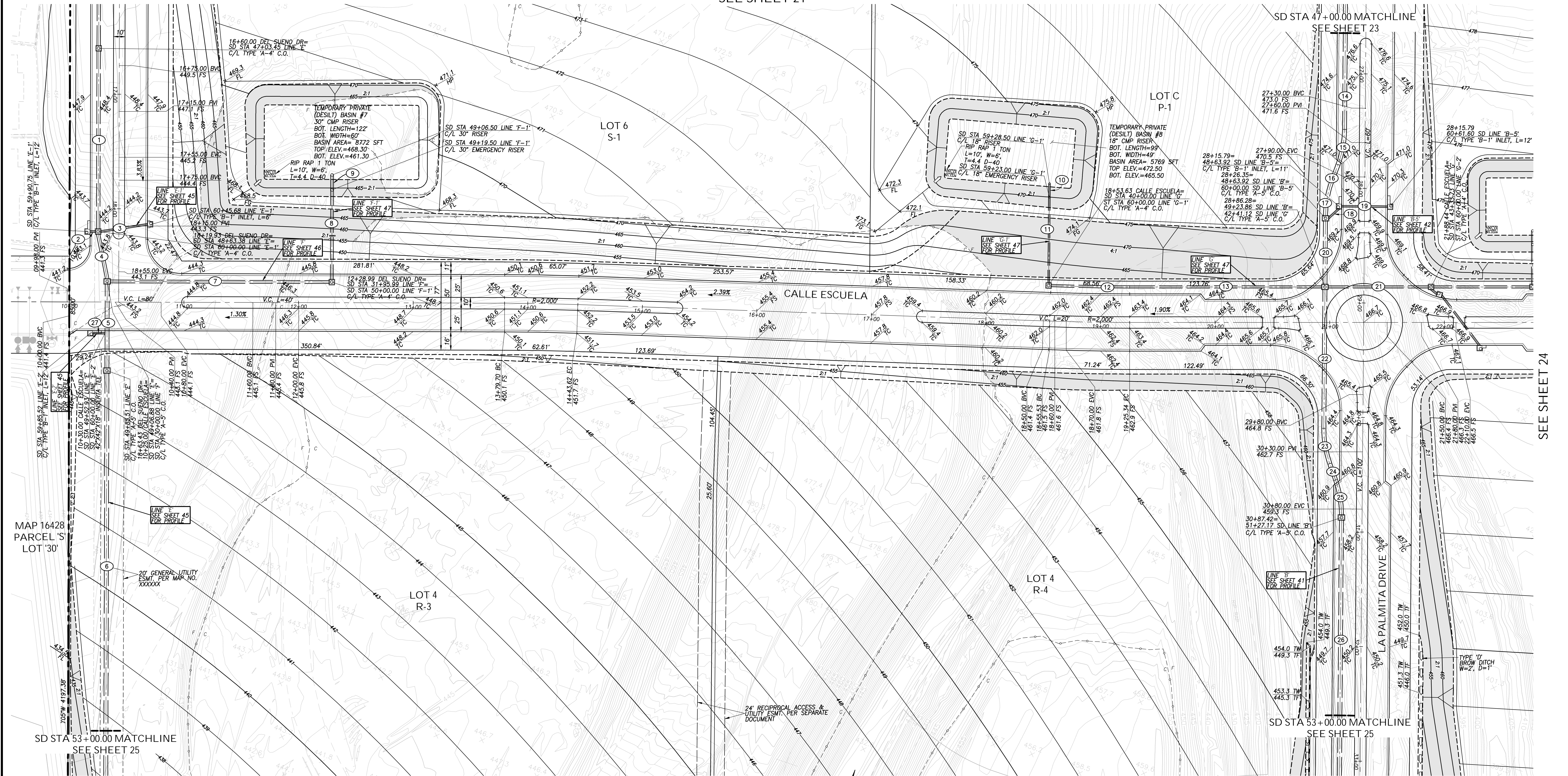
HUNSAKER & ASSOCIATES
SAN DIEGO, INC.
PLANNING 9707 WARLES STREET
ENGINEERING San Diego, Ca 92121
SURVEYING PH(619)558-4500 FAX(619)558-1414

THE CITY OF CHULA VISTA

<p>0 1/2 1</p> <p>IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING NOT TO SCALE</p>		<p>ROUGH GRADING PLANS SHEET FOR OTAY RANCH VILLAGE 8 EAST</p> <p>CHULA VISTA TRACT NO. 22-0005</p>	
<p>DEVELOPMENT SERVICES DEPARTMENT</p>		<p>ACCELA NO.: XXXX</p> <p>PROJECT NO.: XXXX</p>	
<p>Approved: _____</p> <p>By: _____ Principal Civil Engineer</p>		<p>TOTAL SHEETS: 90</p> <p>1796 - 6340</p>	
<p>Submitted: _____</p> <p>By: _____</p>		<p>NAD83 COORDINATES</p> <p>154 - 1773</p>	
<p>Planning: _____ Landscape: _____</p>		<p>LAMBERT COORDINATES</p>	
<p>AS BUILT</p>		<p>DRAWING NO. G022</p>	
<p>CONTRACTOR: _____</p> <p>INSPECTOR: _____</p>		<p>DATE COMPLETED: _____</p>	

SEE SHEET 21

SD STA 47+00.00 MATCHLINE
SEE SHEET 23



SEE SHEET 24

MAP 16428
PARCEL S
LOT '30'

SD STA 53+00.00 MATCHLINE
SEE SHEET 25

SD STA 53+00.00 MATCHLINE
SEE SHEET 25

ROUGH GRADING PLANS FOR
OTAY RANCH VILLAGE 8 EAST

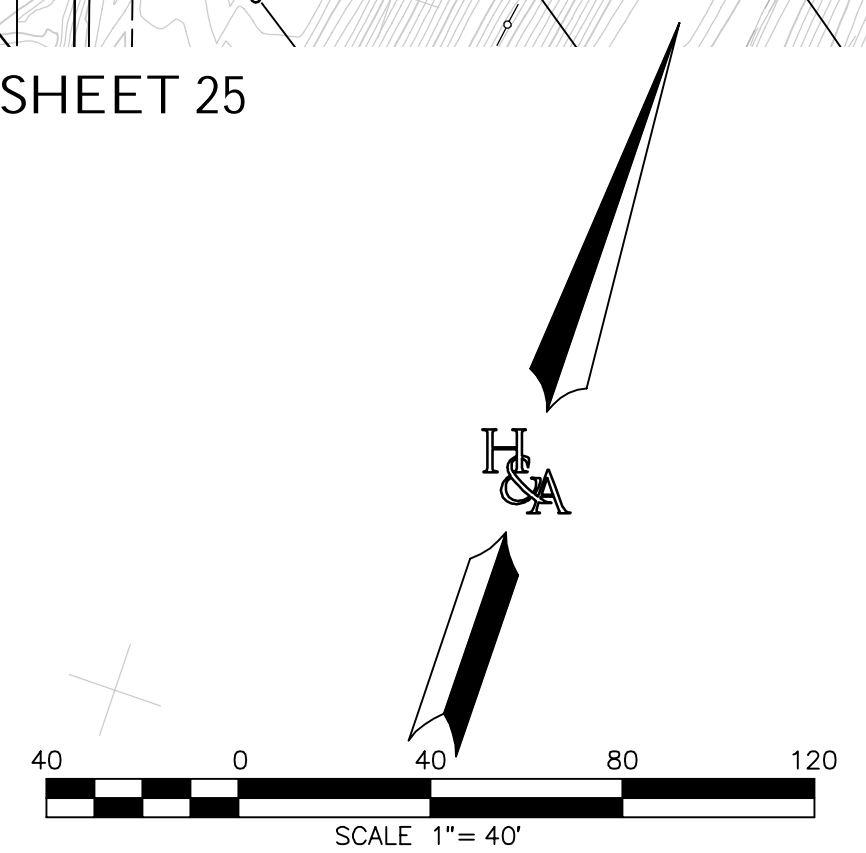
STORM DRAIN DATA

NO.	BEARING/DELTA	RADIUS	LENGTH	REMARKS
1	N 18°40'05" W	155.93'	36"	HDPE
2	N 71°19'55" E	5.25'	18"	HDPE
3	N 63°03'52" E	41.76'	18"	HDPE
4	N 18°40'05" W	40.30'	36"	HDPE
5	N 24°51'09" W	73.82'	42"	HDPE
6	N 18°40'05" W	312.49'	42"	HDPE
7	N 71°20'08" E	199.49'	30"	HDPE
8	N 18°39'52" W	77.25'	30"	HDPE
9	N 18°39'52" W	10.50'	30"	HDPE
10	N 18°23'00" W	10.50'	18"	HDPE
11	N 18°23'00" W	74.25'	18"	HDPE

STORM DRAIN DATA

NO.	BEARING/DELTA	RADIUS	LENGTH	REMARKS
12	2°00'00"	1969.00'	68.73'	24" HDPE
13	N 71°10'00" E		167.89'	24" HDPE
14	N 18°23'00" W		57.79'	42" HDPE
15	20°00'00"	90.00'	31.42'	42" HDPE
16	N 13°7'00" E		15.04'	42" HDPE
17	20°00'00"	90.00'	31.42'	42" HDPE
18	N 28°49'35" E		12.60'	18" HDPE
19	N 71°37'00" E		40.50'	18" HDPE
20	N 18°23'00" W		55.93'	42" HDPE
21	N 71°10'00" E		88.11'	24" HDPE
22	N 18°23'00" W		121.44'	42" HDPE
23	20°00'00"	90.00'	31.42'	42" HDPE
24	N 38°23'00" W		15.04'	42" HDPE
25	20°00'00"	90.00'	31.42'	42" HDPE
26	N 18°23'00" W		170.83'	42" HDPE
27	N 71°20'08" E		10.73'	18" HDPE

SEE SHEET 25



AS BUILT

Signature: _____ Date: _____
 Yolanda Calvo P.E. No. 61827
 My Registration Expires: _____ Discipline: _____

UTILITY NOTE

ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.

REFERENCE DRAWINGS	REVISIONS	By	Date	App'd
C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS	SR-125 PLANS-11232304		
C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS		
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS		
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS		

REVISIONS	By	Date	App'd

Designed By: A.C.G./P.A.A.	Drawn By: P.A.A.	Checked By: Y.C.
Planned Under Supervision Of: _____ Date: _____		
YOLANDA CALVO R.C.E. No. 61827		

REGISTERED PROFESSIONAL ENGINEER
 YOLANDA CALVO
 No. 61827
 CIVIL
 STATE OF CALIFORNIA

HUNSAKER & ASSOCIATES
 SAN DIEGO, INC.
 PLANNING 9707 WAPLES STREET
 ENGINEERING San Diego, Ca 92121
 SURVEYING PH(619)558-4500-FX(619)558-1414

**ROUGH GRADING PLANS SHEET FOR
OTAY RANCH VILLAGE 8 EAST**

CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT

Approved: _____
 By: _____ Principal Civil Engineer

Submitted: _____
 By: _____

Planning: _____ Landscape: _____

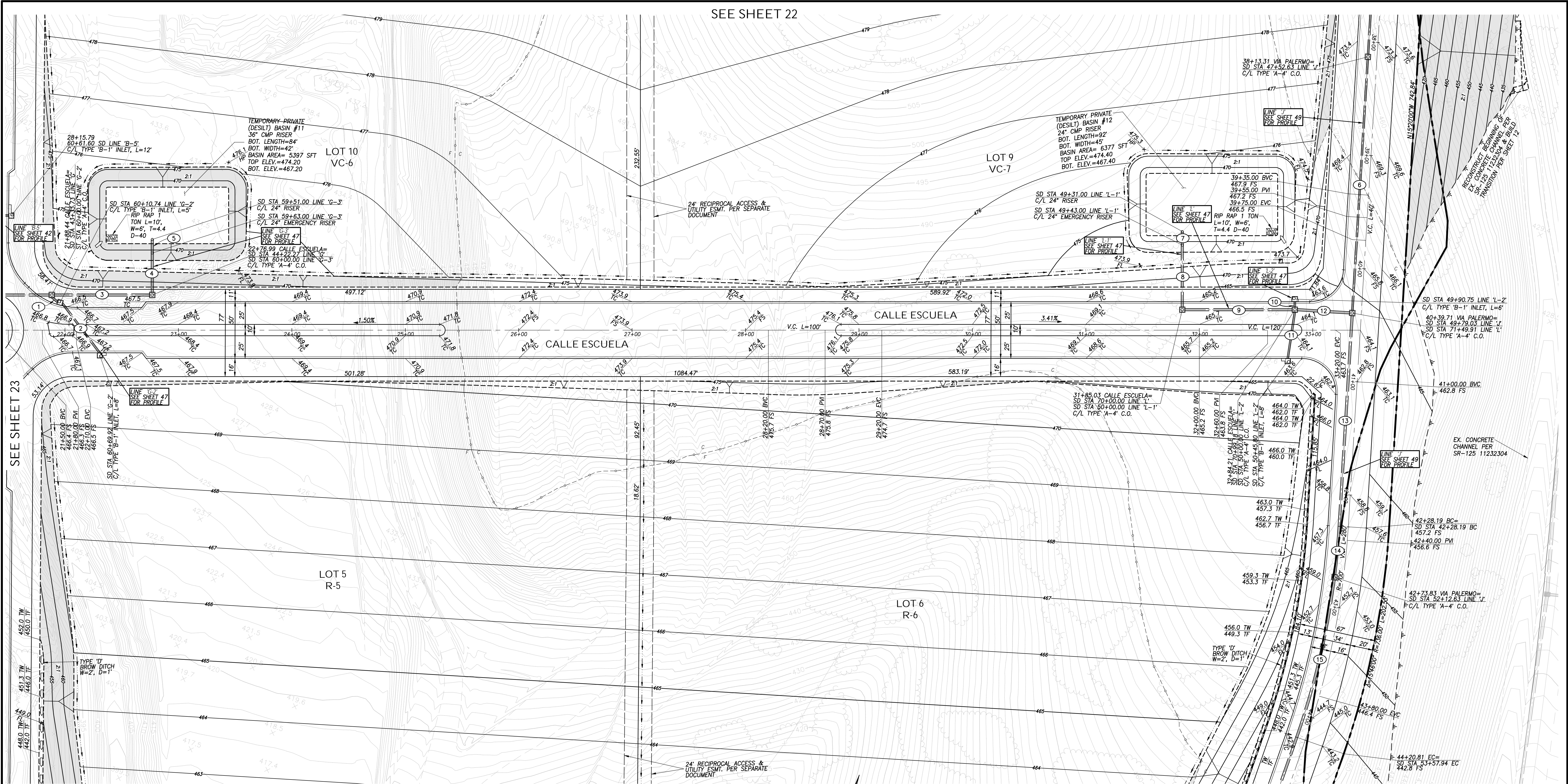
AS BUILT

CONTRACTOR: _____
 INSPECTOR: _____ DATE COMPLETED: _____

ACCELA NO.: XXXX
 PROJECT NO.: XXXX
 TOTAL SHEETS: 90
 1796 - 6340
 NAD83 COORDINATES
 154 - 1773
 LAMBERT COORDINATES

DRAWING NO. G023
 XXXXX.XXX

SEE SHEET 22

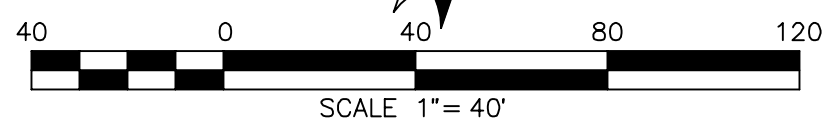


SEE SHEET 23

SEE SHEET 26

STORM DRAIN DATA

NO.	BEARING/DELTA	RADIUS	LENGTH	REMARKS
1	N 70°22'42" W		6.74'	18" HDPE
2	N 55°56'30" W		55.18'	18" HDPE
3	N 71°10'00" E		84.55'	24" HDPE
4	N 18°50'00" W		34.00'	24" HDPE
5	N 18°50'00" W		10.00'	24" HDPE
6	N 15°20'00" W		222.40'	18" HDPE
7	N 18°50'00" W		10.00'	24" HDPE
8	N 18°50'00" W		54.00'	24" HDPE
9	N 71°10'00" E		95.18'	24" HDPE
10	N 18°50'00" W		5.25'	18" HDPE
11	N 9°34'12" W		41.72'	18" HDPE
12	N 74°40'00" E		46.72'	24" HDPE
13	N 15°20'00" W		186.48'	24" HDPE
14	S 3°41'3"	692.00'	43.12'	24" HDPE
15	N 1°51'55"	692.00'	143.31'	24" HDPE



AS BUILT		UTILITY NOTE	
Signature: YOLANDA CALVO	Date: _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
Printed Name: YOLANDA CALVO	P.E. No.: 61827		
My Registration Expires: _____	Discipline: _____		

REFERENCE DRAWINGS			
C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS	SR-125 PLANS-11232304	
C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS	
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS	
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS	

REVISIONS			
NO.	By	Date	App'd

REVISIONS			Designed By:	Drawn By:	Checked By:
			A.C.G./P.A.A.	P.A.A.	Y.C.
Plans Prepared Under Supervision Of:			Date: _____		
YOLANDA CALVO			R.C.E. No. 61827		



HUNSAKER & ASSOCIATES
SAN DIEGO, INC.
PLANNING 9707 WARLES STREET
ENGINEERING San Diego, Ca 92121
SURVEYING PH(619)558-4500 FX(619)558-1414

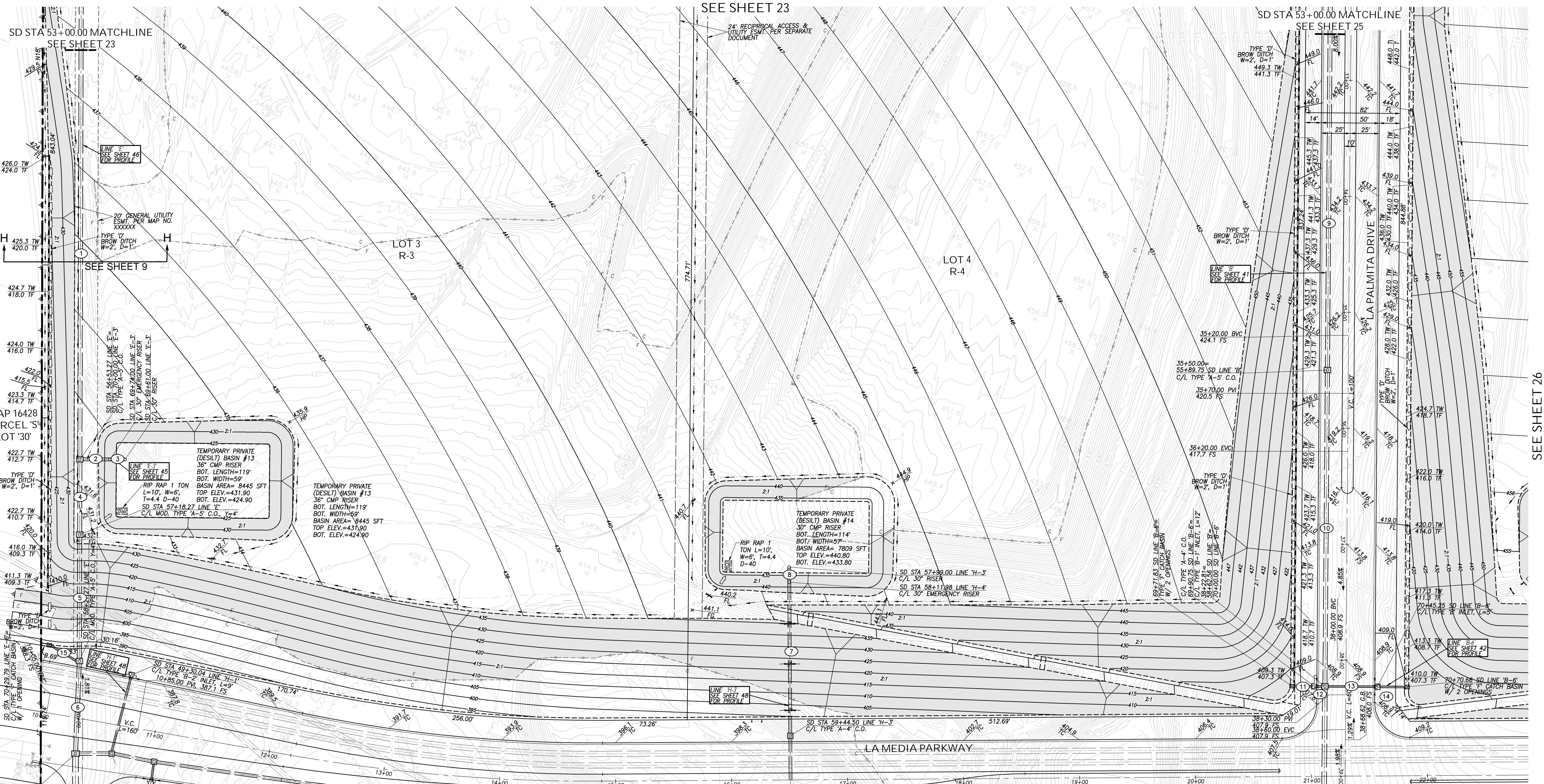
THE CITY OF CHULA VISTA

ROUGH GRADING PLANS SHEET FOR OTAY RANCH VILLAGE 8 EAST
CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT

Approved: _____	ACCELA NO.: XXXX
By: _____ Principal Civil Engineer	PROJECT NO.: XXXX
Submitted: _____	TOTAL SHEETS: 90
By: _____	1796 - 6340
Planning: _____	NA083 COORDINATES
Landscape: _____	154 - 1773
AS BUILT	
CONTRACTOR: _____	DRAWING NO. G024
INSPECTOR: _____	XXXXX.XXX
DATE COMPLETED: _____	

ROUGH GRADING PLANS FOR OTAY RANCH VILLAGE 8 EAST
BY REVISION: XXXX/XX/XX
W.O. NO. 2395-0079



SD STA 53+00.00 MATCHLINE
SEE SHEET 23

SEE SHEET 23

SD STA 53+00.00 MATCHLINE
SEE SHEET 25

MAP 16428
PARCEL 'S'
LOT '30'

LOT 3
R-3

LOT 4
R-4

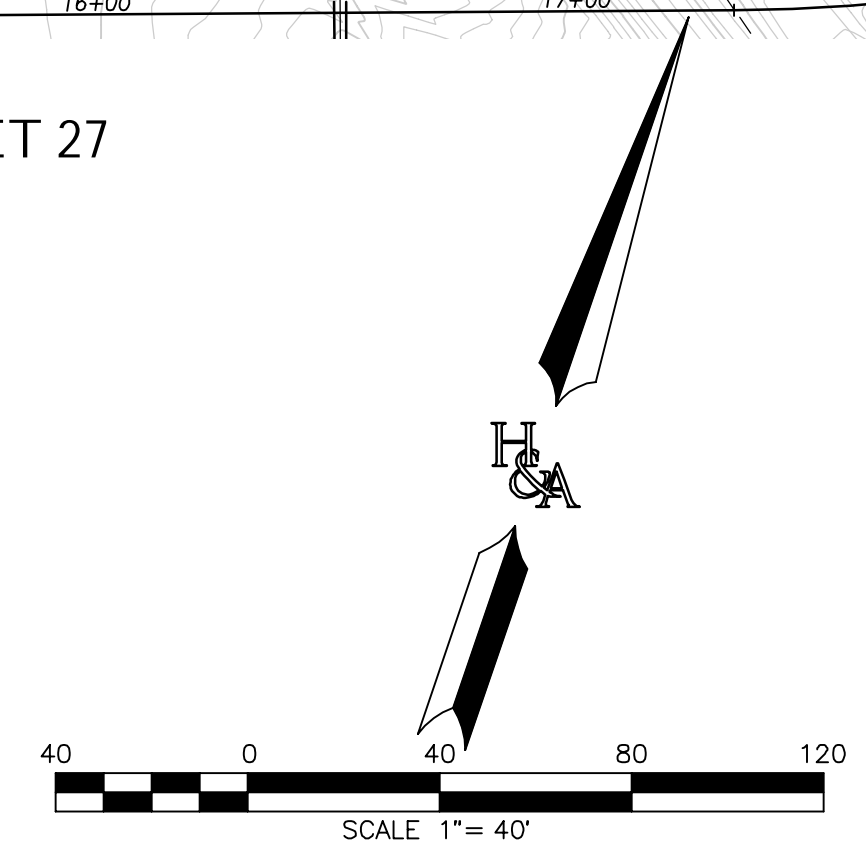
SEE SHEET 26

ROUGH GRADING PLANS FOR
OTAY RANCH VILLAGE 8 EAST

AS BUILT		UTILITY NOTE	
SIGNATURE	Date	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
YOLANDA CALVO	P.E. No. 61827		
My Registration Expires	Discipline		

NO.	BEARING/Delta	RADIUS	LENGTH	REMARKS
1	N 18°40'05" W		350.90'	42" HDPE
2	N 71°19'55" E		22.25'	30" HDPE
3	N 71°19'55" E		10.50'	30" HDPE
4	N 18°40'05" W		61.00'	42" HDPE
5	N 18°40'05" W		105.00'	42" HDPE
6	N 16°24'08" W		75.88'	42" RCP
7	N 19°13'00" W		129.25'	30" HDPE
8	N 19°13'00" W		10.50'	30" HDPE
9	N 18°23'00" W		287.75'	42" HDPE
10	N 18°23'00" W		268.81'	42" HDPE
11	N 71°37'00" E		15.69'	18" HDPE
12	N 71°37'00" E		4.75'	18" HDPE
13	N 71°37'00" E		40.75'	18" HDPE
14	N 71°37'00" E		22.19'	18" HDPE
15	N 77°24'50" W		25.79'	18" HDPE

SEE SHEET 27



REFERENCE DRAWINGS		REVISIONS	
C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS	SR-125 PLANS-11232304	
C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS	
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS	
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS	

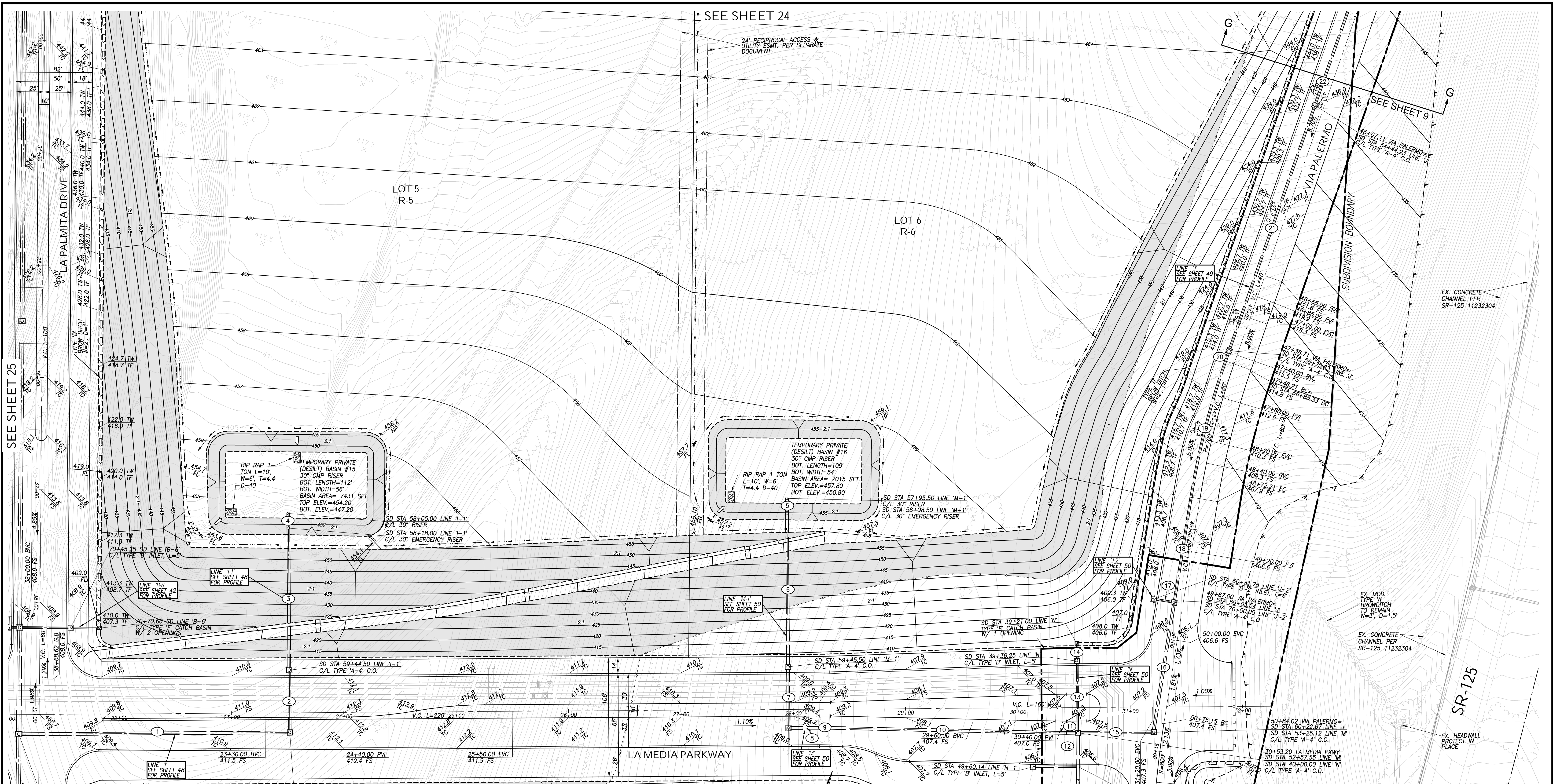
DESIGNED BY	DRAWN BY	CHECKED BY
A.C.G./P.A.A.	P.A.A.	Y.C.
Plans Prepared Under Supervision Of: _____ Date: _____		
YOLANDA CALVO R.C.E. No. 61827		



HUNSAKER & ASSOCIATES
SAN DIEGO, INC.
PLANNING 9707 WARLES STREET
ENGINEERING San Diego, Ca 92121
SURVEYING PH858558-4500-FX858558-1414

THE CITY OF CHULA VISTA

ROUGH GRADING PLANS SHEET FOR OTAY RANCH VILLAGE 8 EAST	
CHULA VISTA TRACT NO. 22-0005	
DEVELOPMENT SERVICES DEPARTMENT	
ACCELA NO.: XXXX	PROJECT NO.: XXXX
Approved: _____	TOTAL SHEETS: 90
By: _____ Principal Civil Engineer	1796 - 6340
Submitted: _____	NAD83 COORDINATES
By: _____	154 - 1773
Planning: _____	LAMBERT COORDINATES
AS BUILT	
CONTRACTOR: _____	DRAWING NO. G025
INSPECTOR: _____	XXXXX.XXX
DATE COMPLETED: _____	



STORM DRAIN DATA

BEARING/DELTA	RADIUS	LENGTH	REMARKS
1 N 70°47'00" E	236.68'	30'	30" RCP
2 N 19°13'00" W	51.50'	30'	30" RCP
3 N 19°13'00" W	123.25'	30'	HDPE
4 N 19°13'00" W	10.50'	30'	HDPE
5 N 19°13'00" W	10.50'	30'	HDPE
6 N 19°13'00" W	133.75'	30'	HDPE
7 N 19°13'00" W	50.50'	30'	RCP
8 N 70°47'00" E	25.46'	30'	RCP
9 1°38'12"	339.50'	9.70'	30" RCP
10 N 72°25'12" E	200.09'	30'	RCP
11 1°38'12"	360.50'	10.30'	30" RCP

STORM DRAIN DATA

BEARING/DELTA	RADIUS	LENGTH	REMARKS
12 N 70°47'00" E	8.00'	30'	30" RCP
13 N 19°13'00" W	59.75'	18"	RCP
14 N 19°13'00" W	12.02'	18"	RCP
15 N 70°47'00" E	63.57'	30"	RCP
16 N 9°43'00" W	113.13'	30"	HDPE
17 N 80°17'00" E	14.25'	18"	HDPE
18 N 9°43'00" W	92.79'	24"	HDPE
19 10°09'00"	708.00'	125.42'	24" HDPE
20 N 0°26'00" E	7.50'	24"	HDPE
21 N 0°26'00" E	227.60'	24"	HDPE
22 N 0°26'00" E	84.29'	24"	HDPE

AS BUILT

Signature: _____ Date: _____
 YOLANDA CALVO P.E. No. 61827
 My Registration Expires: _____ Discipline: _____

UTILITY NOTE

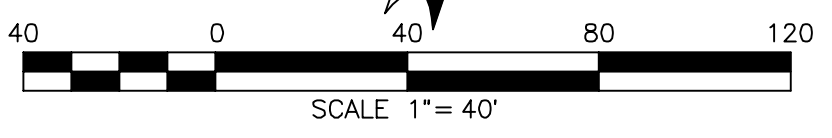
ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.

REFERENCE DRAWINGS

C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS	SR-125 PLANS-11232304
C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS

REVISIONS

By	Date	App'd	REVISIONS	By	Date	App'd



HUNSAKER & ASSOCIATES
 SAN DIEGO, INC.
 PLANNING 9707 WARLES STREET
 ENGINEERING San Diego, CA 92121
 SURVEYING PH(619)558-4500 FX(619)558-1414

SEE SHEET 28

ROUGH GRADING PLANS SHEET FOR OTAY RANCH VILLAGE 8 EAST

CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT

ACCELA NO.: XXXX
 PROJECT NO.: XXXX
 TOTAL SHEETS: 90
 1796 - 6340
 NAD83 COORDINATES
 154 - 1773
 LAMBERT COORDINATES

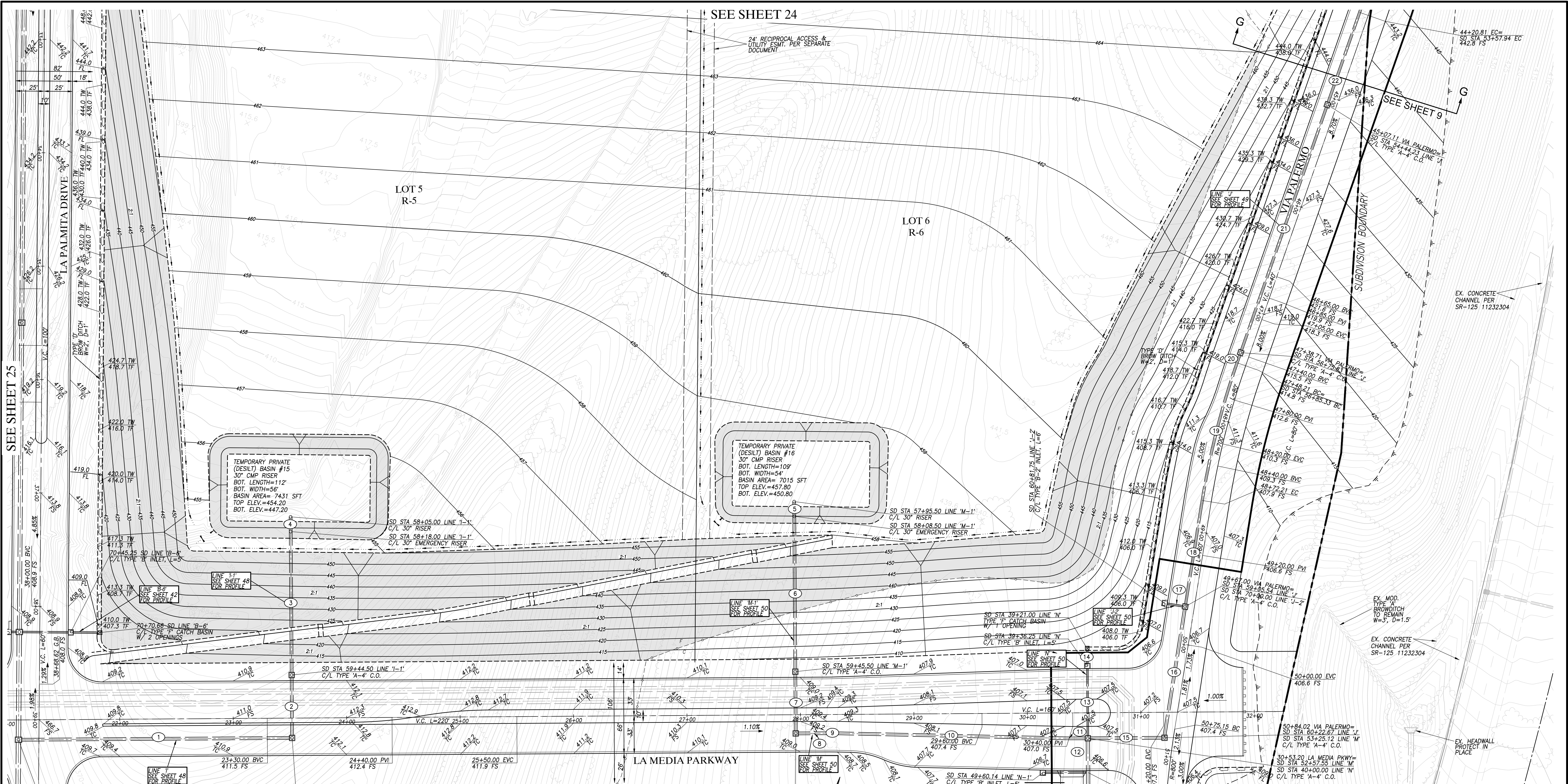
Approved: _____
 By: _____ Principal Civil Engineer

Submitted: _____
 By: _____

Planning: _____ Landscape: _____

AS BUILT

CONTRACTOR: _____ DRAWING NO. G026
 INSPECTOR: _____ DATE COMPLETED: _____



SEE SHEET 25

SEE SHEET 24

SEE SHEET 9

SEE SHEET 28

ROUGH GRADING PLANS FOR OTAY RANCH VILLAGE 8 EAST

STORM DRAIN DATA

LINE	BEARING/Delta	RADIUS	LENGTH	REMARKS
1	N 70°47'00" E		236.68'	30" RCP
2	N 19°13'00" W		51.50'	30" RCP
3	N 19°13'00" W		123.25'	30" HDPE
4	N 19°13'00" W		10.50'	30" HDPE
5	N 19°13'00" W		10.50'	30" HDPE
6	N 19°13'00" W		133.75'	30" HDPE
7	N 19°13'00" W		50.50'	30" RCP
8	N 70°47'00" E		25.46'	30" RCP
9	1°38'12"	339.50'	9.70'	30" RCP
10	N 72°26'12" E		200.09'	30" RCP
11	1°38'12"	360.50'	10.30'	30" RCP

STORM DRAIN DATA

LINE	BEARING/Delta	RADIUS	LENGTH	REMARKS
12	N 70°47'00" E		8.00'	30" RCP
13	N 19°13'00" W		59.75'	18" RCP
14	N 19°13'00" W		12.02'	18" RCP
15	N 70°47'00" E		63.57'	30" RCP
16	N 9°43'00" W		113.13'	30" HDPE
17	N 80°17'00" E		14.25'	18" HDPE
18	N 9°43'00" W		92.79'	24" HDPE
19	10°09'00"	708.00'	125.42'	24" HDPE
20	N 0°26'00" E		7.50'	24" HDPE
21	N 72°26'00" E		227.60'	24" HDPE
22	N 0°26'00" E		84.29'	24" HDPE

AS BUILT

Signature: YOLANDA CALVO P.E. No. 61827

My Registration Expires: _____ Discipline: _____

UTILITY NOTE

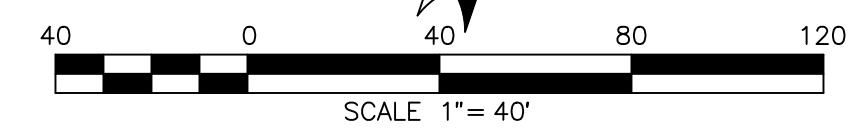
ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.

REFERENCE DRAWINGS

C.V. DWG. NO.	DESCRIPTION
C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS
C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS
C.V. DWG. NO. 20028-GRADING PLANS	C.V. DWG. NO. 22043-GRADING PLANS
C.V. DWG. NO. 20029-GRADING PLANS	

REVISIONS

By	Date	App'd	REVISIONS	By	Date	App'd



DEVELOPMENT SERVICES DEPARTMENT

CHULA VISTA TRACT NO. 22-0005

Approved: _____
By: _____ Principal Civil Engineer

Submitted: _____
By: _____

Planning: _____ Landscape: _____

AS BUILT

CONTRACTOR: _____
INSPECTOR: _____ DATE COMPLETED: _____

DESIGNED BY: A.C.G./P.A.A. DRAWN BY: P.A.A. CHECKED BY: Y.C.

PLANS PREPARED UNDER SUPERVISION OF: _____ DATE: _____

YOLANDA CALVO R.C.E. No. 61827

THE CITY OF CHULA VISTA

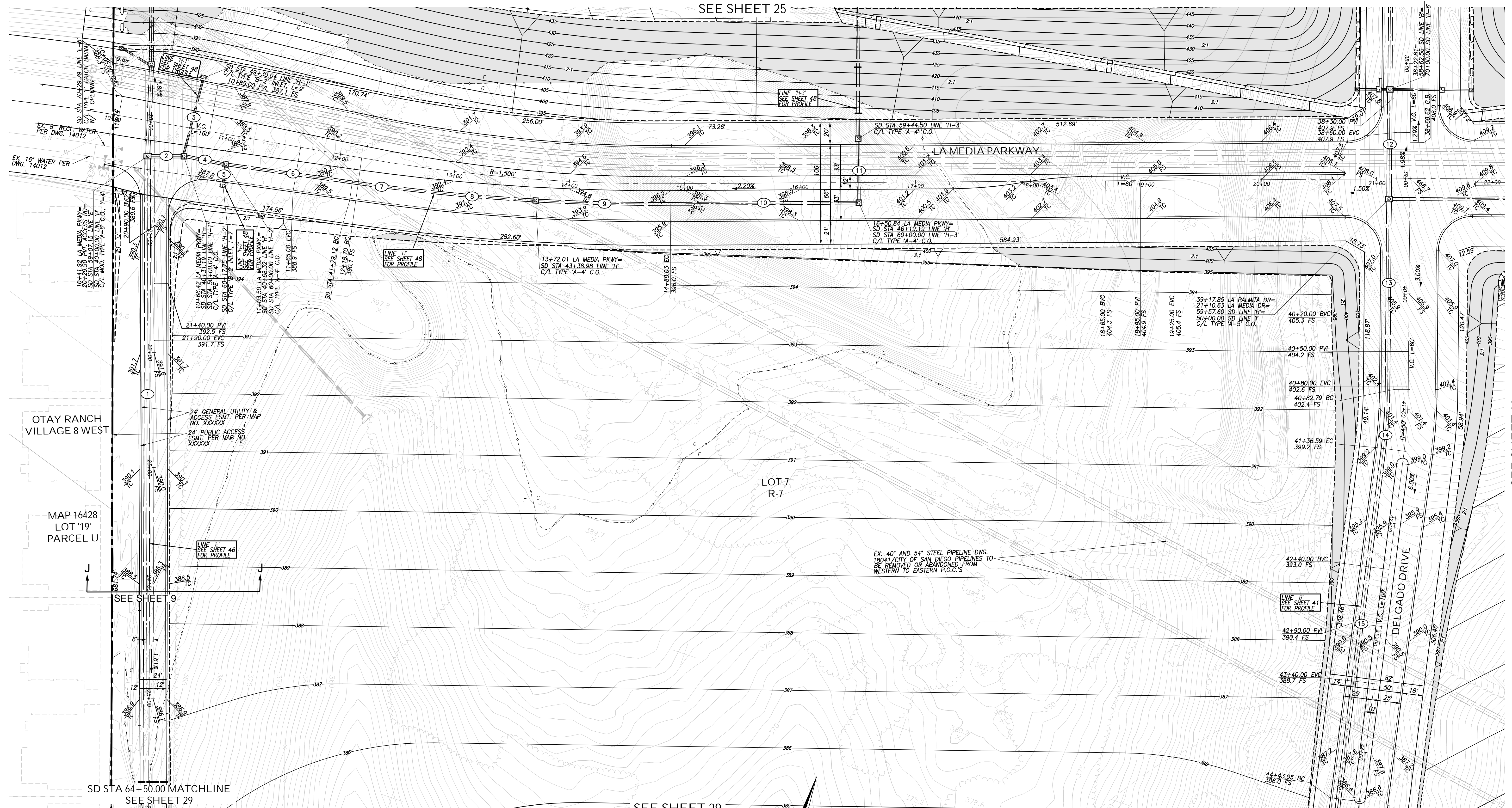


HUNSAKER & ASSOCIATES
SAN DIEGO, INC.

PLANNING: 9707 WAPLES STREET
ENGINEERING: San Diego, Ca 92121
SURVEYING: PH858558-4500 FAX858558-1414

ACCELA NO.: XXXX	
PROJECT NO.: XXXX	
TOTAL SHEETS: 90	
1796 - 6340	
NAD83 COORDINATES	
154 - 1773	
LAMBERT COORDINATES	
DRAWING NO.	G026
CONTRACTOR:	XXXXX.XXX
INSPECTOR:	DATE COMPLETED:

SEE SHEET 25



SEE SHEET 28

OTAY RANCH VILLAGE 8 WEST

MAP 16428 LOT 19 PARCEL U

LOT 7 R-7

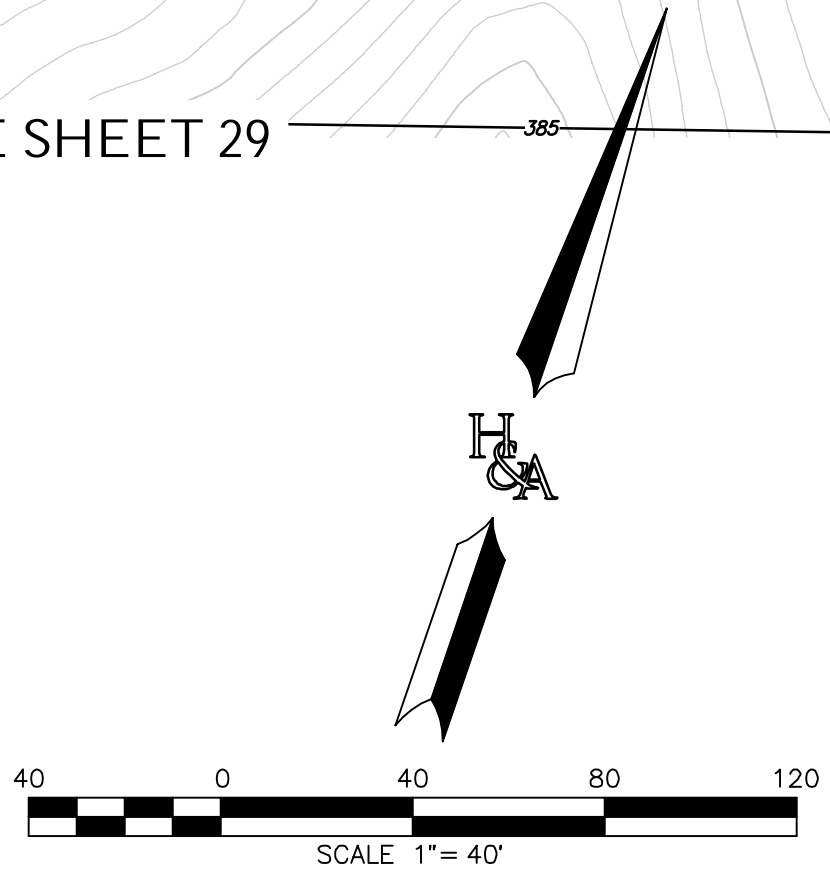
EX. 40" AND 54" STEEL PIPELINE DWG. 18041 CITY OF SAN DIEGO PIPELINES TO BE REMOVED OR ABANDONED FROM WESTERN TO EASTERN P.O.C.'S

SEE SHEET 9

SD STA 64+50.00 MATCHLINE SEE SHEET 29

SEE SHEET 29

NO.	BEARING/DELTA	RADIUS	LENGTH	REMARKS
1	N 18°40'05" W		540.85'	60" RCP
2	N 71°19'55" E		26.19'	36" RCP
3	N 4°21'22" W		65.96'	18" RCP
4	N 82°41'58" E		33.13'	30" RCP
5	N 10°43'42" W		13.75'	18" RCP
6	N 79°16'18" E		108.80'	30" RCP
7	1°34'35"	1871.50'	51.49'	30" RCP
8	3°15'24"	1871.50'	106.37'	30" RCP
9	3°31'59"	1871.50'	115.40'	30" RCP
10	N 70°47'00" E		160.80'	30" RCP
11	N 19°13'00" W		51.50'	30" RCP
12	N 18°23'00" W		91.03'	48" RCP
13	N 18°23'00" W		162.95'	48" HDPE
14	6°51'00"	432.00'	51.65'	48" HDPE
15	N 11°32'00" W		306.46'	48" HDPE



AS BUILT		UTILITY NOTE	
Signature: YOLANDA CALVO	Date: P.E. No. 61827	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	

REFERENCE DRAWINGS			
C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS	SR-125 PLANS-11232304	
C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS	
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS	
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS	

REVISIONS			
NO.	DESCRIPTION	By	Date

DESIGNED BY:	DRAWN BY:	CHECKED BY:
A.C.G./P.A.A.	P.A.A.	Y.C.
Planned Under Supervision Of: _____ Date: _____		
YOLANDA CALVO R.C.E. No. 61827		

HUNSAKER & ASSOCIATES
SAN DIEGO, INC.
PLANNING 9707 WARLES STREET
ENGINEERING San Diego, Ca 92121
SURVEYING PH(619)558-4500 FAX(619)558-1414

THE CITY OF CHULA VISTA

ROUGH GRADING PLANS SHEET FOR OTAY RANCH VILLAGE 8 EAST
CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT

ACCELA NO.: XXXX
PROJECT NO.: XXXX
TOTAL SHEETS: 90
1796 - 6340
NAD83 COORDINATES
154 - 1773
LAMBERT COORDINATES

Approved: _____
By: _____ Principal Civil Engineer

Submitted: _____
By: _____

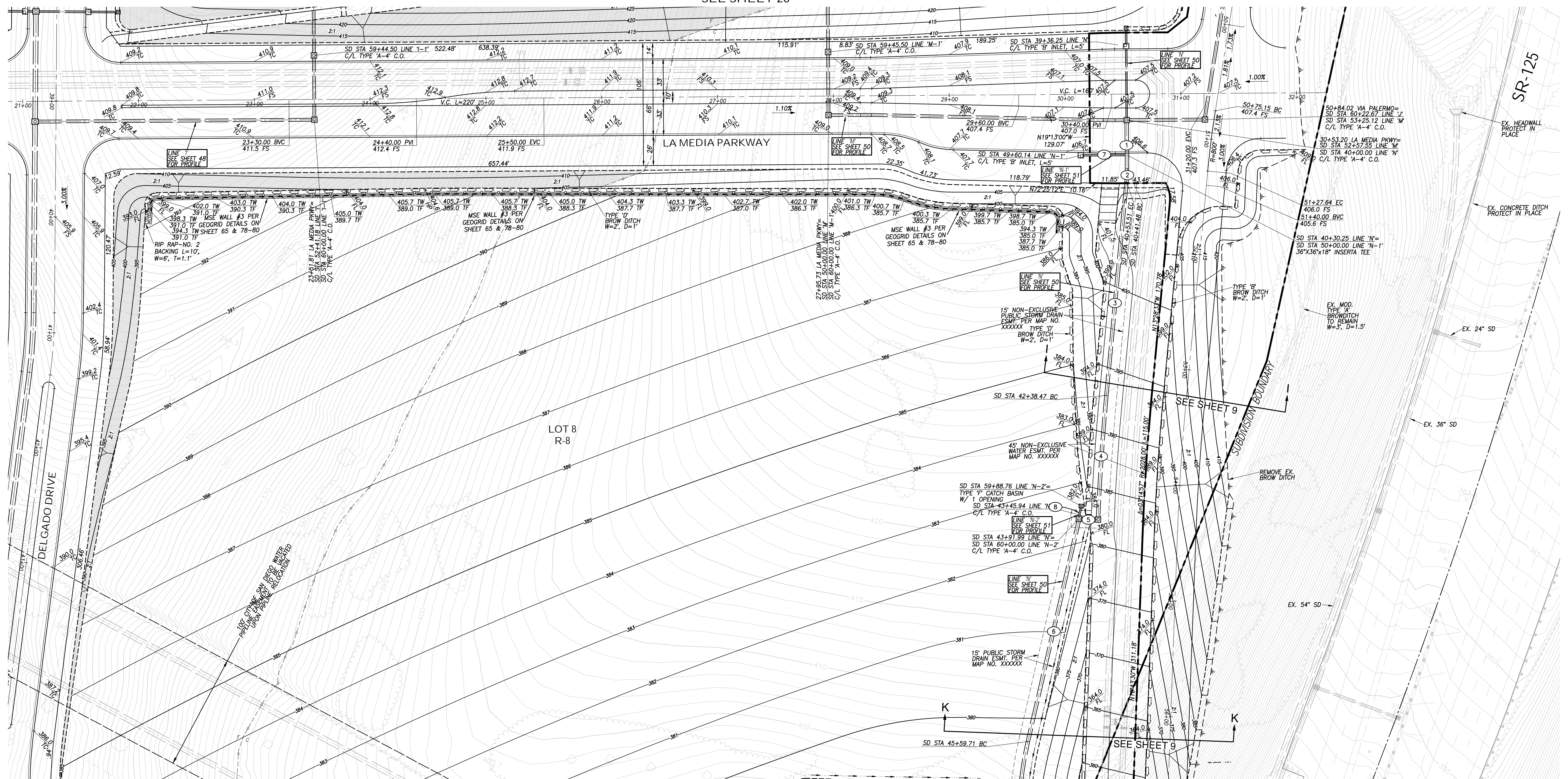
Planning: _____ Landscape: _____

AS BUILT

CONTRACTOR: _____
INSPECTOR: _____ DATE COMPLETED: _____

DRAWING NO. G027
XXXXX.XXX

SEE SHEET 26

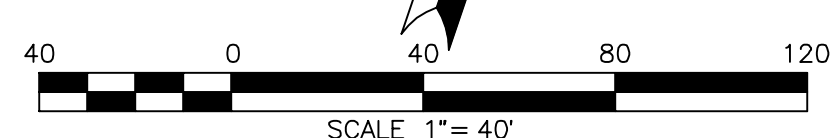


SR-125

SEE SHEET 30

STORM DRAIN DATA

LINE NO.	BEARING/Delta	RADIUS	LENGTH	REMARKS
1	N 19°13'00" W		39.48'	36" HDPE
2	5°44'27"	120.00'	12.02'	36" HDPE
3	N 13°28'33" W		184.97'	36" HDPE
4	2°55'25"	2067.00'	105.47'	36" HDPE
5	N 73°32'43" E		12.61'	36" HDPE
6	N 5°1'00" W		195.16'	36" HDPE
7	N 70°47'00" E		36.36'	18" HDPE
8	N 5°03'38" W		8.01'	18" HDPE



AS BUILT		UTILITY NOTE	
Signature: <u>YOLANDA CALVO</u>	Date: _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
Printed Name: <u>YOLANDA CALVO</u>	P.E. No. <u>61827</u>		
My Registration Expires: _____	Discipline: _____		

REFERENCE DRAWINGS		REVISIONS	
C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS	SR-125 PLANS-11232304	
C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS	
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS	
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS	

REVISIONS	By	Date	App'd	REVISIONS	By	Date	App'd

Designed By:	Drawn By:	Checked By:
A.C.G./P.A.A.	P.A.A.	Y.C.
Plans Prepared Under Supervision Of: _____ Date: _____		
YOLANDA CALVO R.C.E. No. 61827		

THE CITY OF CHULA VISTA



HUNSAKER & ASSOCIATES
SAN DIEGO, INC.
PLANNING 9707 WARLES STREET
ENGINEERING San Diego, Ca 92121
SURVEYING PH(619)558-4500 FAX(619)558-1414

ROUGH GRADING PLANS SHEET FOR OTAY RANCH VILLAGE 8 EAST
CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT

ACCELA NO.: XXXX
PROJECT NO.: XXXX
TOTAL SHEETS: 90
1796 - 6340
NAD83 COORDINATES
154 - 1773
LAMBERT COORDINATES

Approved: _____
By: _____ Principal Civil Engineer

Submitted: _____
By: _____

Planning: _____ Landscape: _____

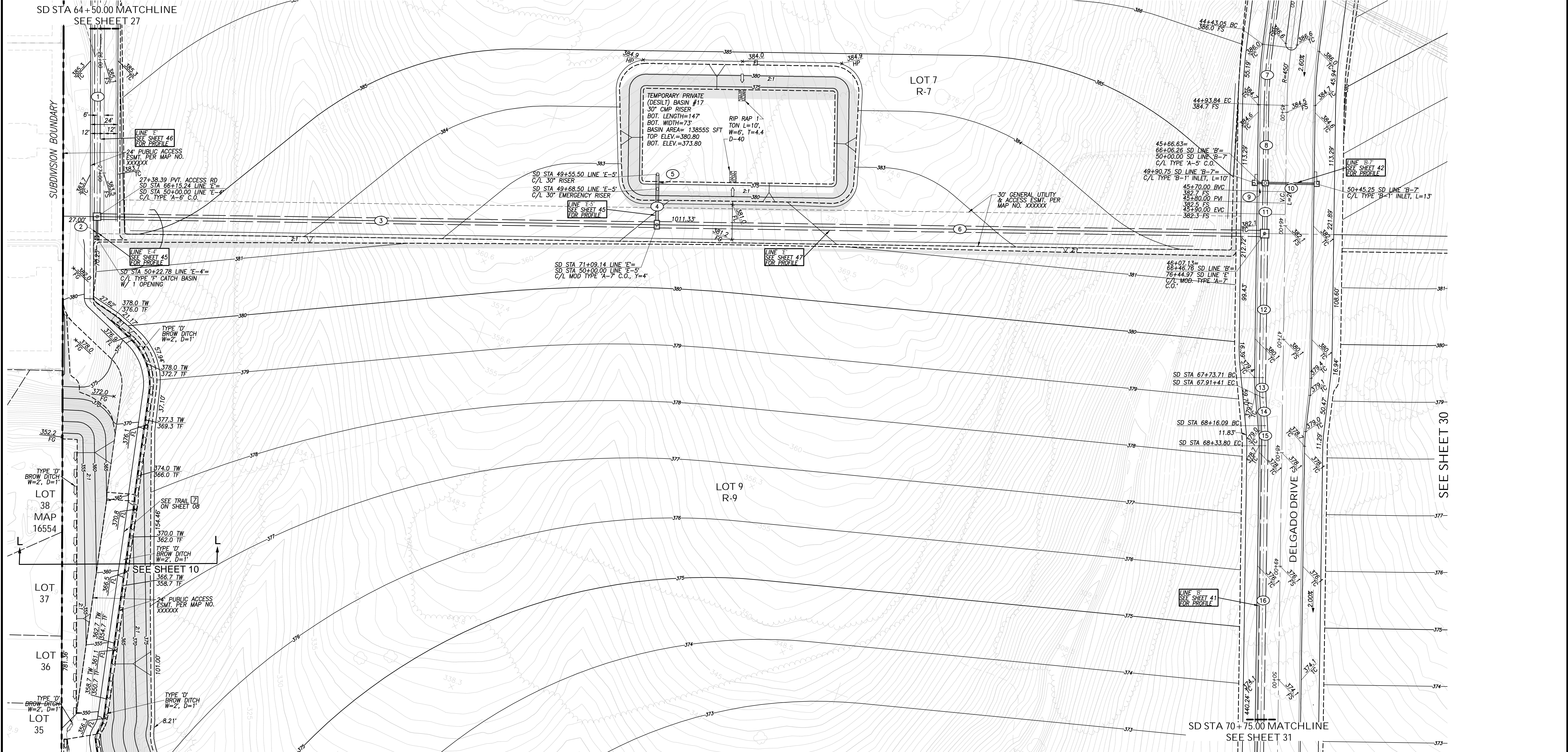
AS BUILT

CONTRACTOR: _____ DRAWING NO. G028
INSPECTOR: _____ DATE COMPLETED: _____

SEE SHEET 27

ROUGH GRADING PLANS FOR OTAY RANCH VILLAGE 8 EAST

SEE SHEET 27



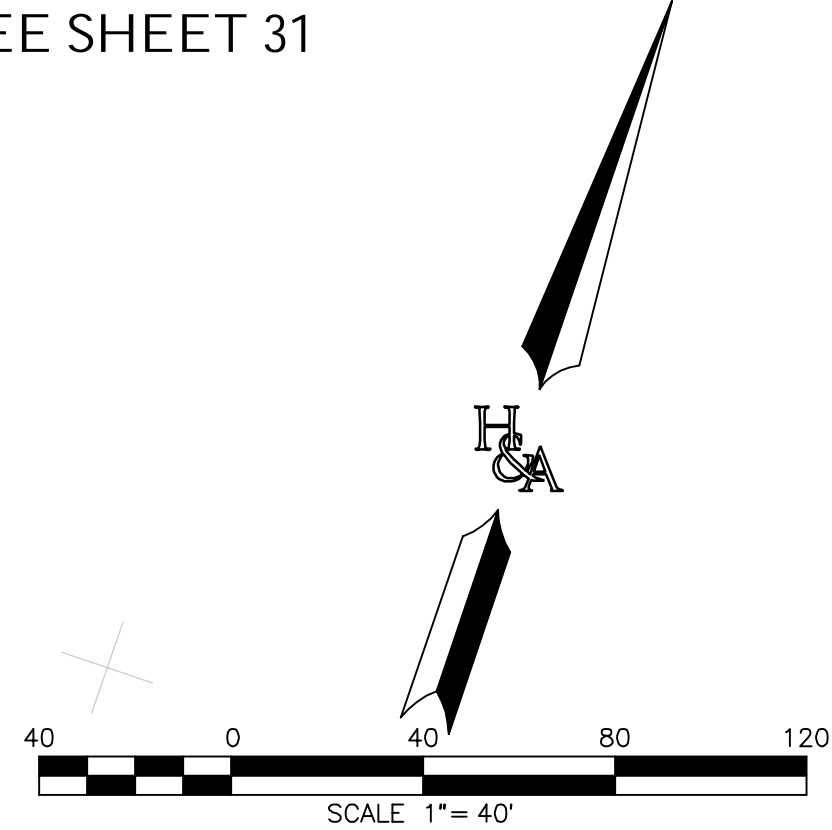
SD STA 64+50.00 MATCHLINE
SEE SHEET 27

SD STA 70+75.00 MATCHLINE
SEE SHEET 31

SEE SHEET 31

STORM DRAIN DATA

NO.	BEARING/Delta	RADIUS	LENGTH	REMARKS
1	N 18°40'05" W		162.64'	60" RCP
2	N 1°19'55" E		14.50'	18" HDPE
3	N 72°00'00" E		488.46'	60" RCP
4	N 18°00'00" W		26.75'	30" HDPE
5	N 18°00'00" W		10.50'	30" HDPE
6	N 72°00'00" E		530.33'	66" RCP
7	6°28'00"	468.00'	52.82'	48" HDPE
8	N 18°00'00" W		70.79'	48" HDPE
9	N 72°00'00" E		4.75'	18" HDPE
10	N 72°00'00" E		40.75'	18" HDPE
11	N 18°00'00" W		39.00'	48" HDPE
12	N 18°00'00" W		119.45'	66" RCP
13	4°03'29"	250.00'	17.71'	66" RCP
14	N 22°03'29" W		24.68'	66" RCP
15	4°03'29"	250.00'	17.71'	66" RCP
16	N 18°00'00" W		241.20'	66" RCP



AS BUILT		UTILITY NOTE	
SIGNATURE	Date	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
YOLANDA CALVO	P.E. No. 61827		
My Registration Expires	Discipline		

REFERENCE DRAWINGS			
C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS	SR-125 PLANS-11232304	
C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS	
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS	
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS	

REVISIONS			
NO.	REVISIONS	By	Date

DESIGNED BY:	DRAWN BY:	CHECKED BY:
A.C.G./P.A.A.	P.A.A.	Y.C.
Plans Prepared Under Supervision Of: _____ Date: _____		
YOLANDA CALVO R.C.E. No. 61827		

REGISTERED PROFESSIONAL ENGINEER
YOLANDA CALVO
No. 61827
CIVIL
STATE OF CALIFORNIA

HUNSAKER & ASSOCIATES
SAN DIEGO, INC.
PLANNING 9707 WARLES STREET
ENGINEERING San Diego, Ca 92121
SURVEYING PH(619)558-4500 FX(619)558-1414

THE CITY OF CHULA VISTA

ROUGH GRADING PLANS SHEET FOR OTAY RANCH VILLAGE 8 EAST
CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT

ACCELA NO.: XXXX
PROJECT NO.: XXXX
TOTAL SHEETS: 90
1796 - 6340
NAD83 COORDINATES
154 - 1773
LAMBERT COORDINATES

Approved: _____
By: _____ Principal Civil Engineer

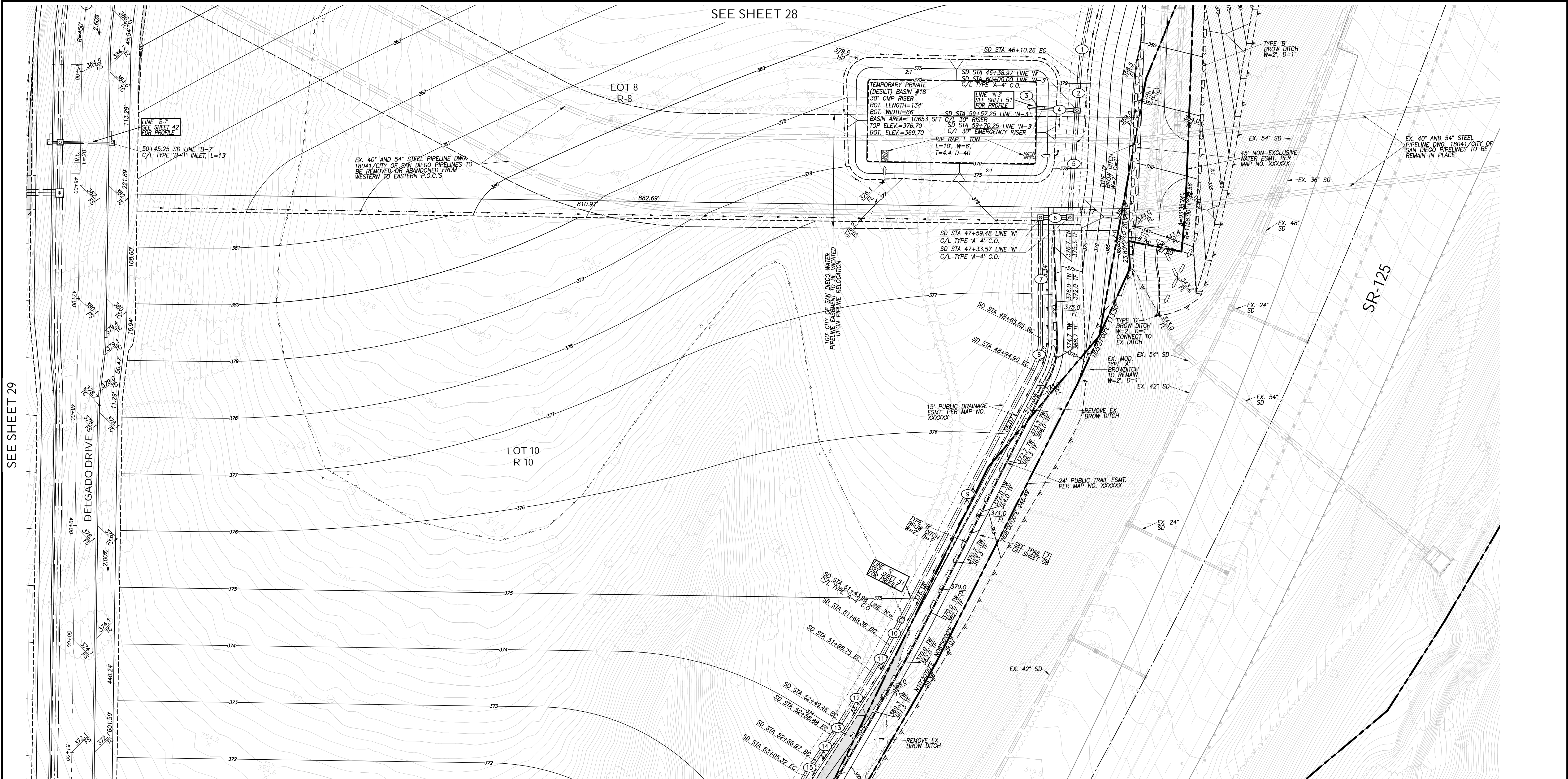
Submitted: _____
By: _____

Planning: _____ Landscape: _____

AS BUILT

CONTRACTOR: _____ DRAWING NO. G029
INSPECTOR: _____ XXXXX.XXX
DATE COMPLETED: _____

ROUGH GRADING PLANS FOR OTAY RANCH VILLAGE 8 EAST
W.O. NO. 2395-0079



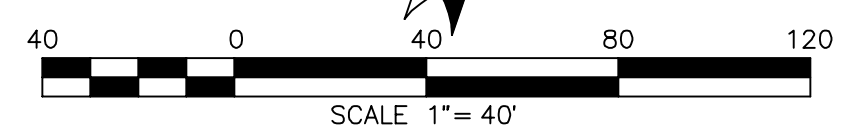
SEE SHEET 29

SEE SHEET 28

SEE SHEET 32

STORM DRAIN DATA

NO.	BEARING/Delta	RADIUS	LENGTH	REMARKS
1	9°03'00"	320.00'	50.54'	36" HDPE
2	N 14°54'00" W		26.71'	36" HDPE
3	N 75°06'00" E		10.50'	30" HDPE
4	N 75°06'00" E		26.00'	30" HDPE
5	N 14°54'00" W		90.10'	42" HDPE
6	N 71°04'00" E		20.90'	42" HDPE
7	N 18°56'00" W		103.67'	42" HDPE
8	27°56'00"	60.00'	29.25'	42" HDPE
9	N 9°00'00" E		247.08'	42" HDPE
10	N 9°00'00" E		22.38'	42" HDPE
11	4°04'00"	400.00'	28.39'	42" HDPE
12	N 13°04'00" E		52.71'	42" HDPE
13	2°42'00"	200.00'	9.42'	42" HDPE
14	N 15°46'00" E		30.09'	42" HDPE
15	4°41'00"	200.00'	16.35'	42" HDPE



AS BUILT

Signature: YOLANDA CALVO P.E. No. 61827

Date: _____

My Registration Expires: _____ Discipline: _____

UTILITY NOTE

ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.

REFERENCE DRAWINGS	REVISIONS	By	Date	App'd
C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS			
C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS			
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS			
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS			
	C.V. DWG. NO. 20028-GRADING PLANS			
	C.V. DWG. NO. 20029-GRADING PLANS			
	C.V. DWG. NO. 22043-GRADING PLANS			

REVISIONS	By	Date	App'd	DESIGNED BY	DRAWN BY	CHECKED BY
				A.C.G./P.A.A.	P.A.A.	Y.C.
				Plans Prepared Under Supervision Of: _____ Date: _____		
				YOLANDA CALVO R.C.E. No. 61827		



HUNSAKER & ASSOCIATES
SAN DIEGO, INC.

PLANNING: 9707 WARLES STREET
ENGINEERING: San Diego, CA 92121
SURVEYING: PH(619)558-4500 FX(619)558-1414

THE CITY OF CHULA VISTA

ROUGH GRADING PLANS SHEET FOR OTAY RANCH VILLAGE 8 EAST

CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT

ACCELA NO.: XXXX
PROJECT NO.: XXXX
TOTAL SHEETS: 90
1796 - 6340
NAD83 COORDINATES
154 - 1773
LAMBERT COORDINATES

Approved: _____
By: _____ Principal Civil Engineer

Submitted: _____
By: _____

Planning: _____ Landscape: _____

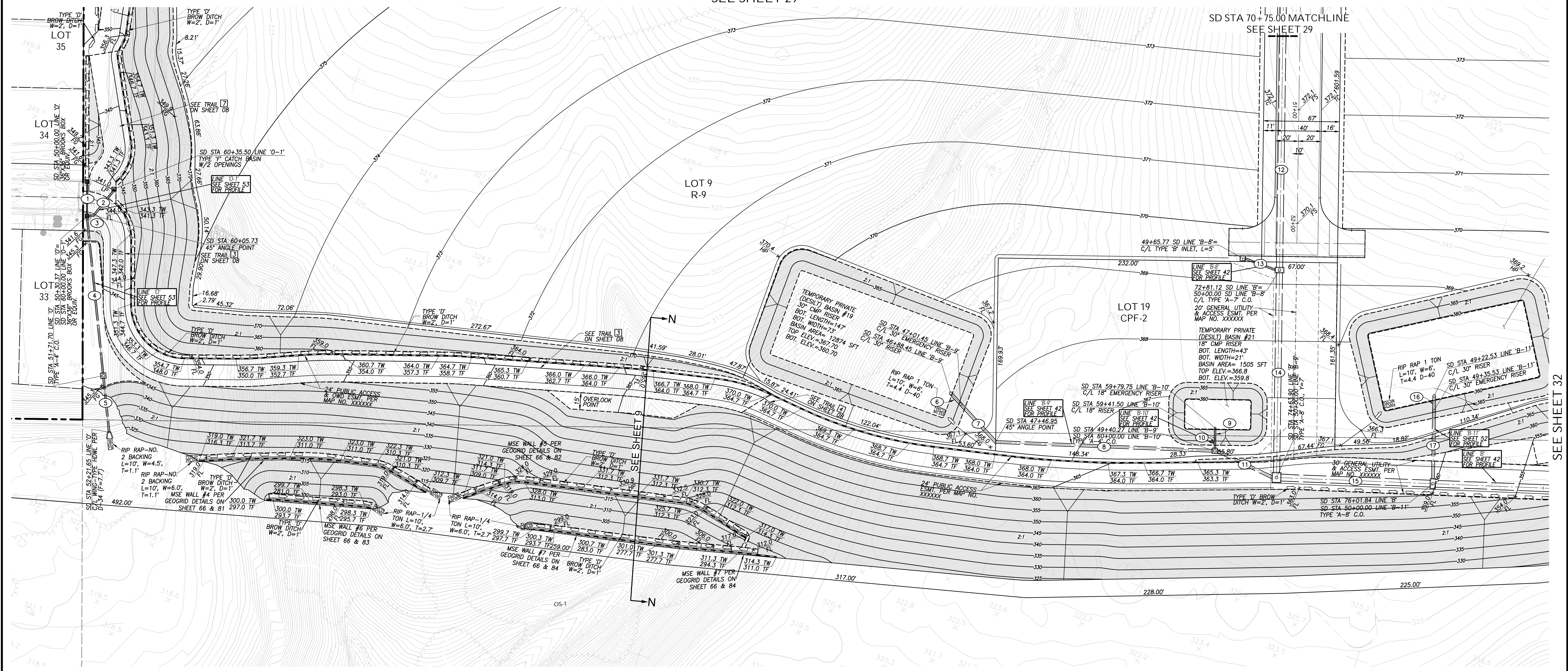
AS BUILT

DRAWING NO. G030
CONTRACTOR: XXXXX.XXX
INSPECTOR: _____ DATE COMPLETED: _____

ROUGH GRADING PLANS FOR OTAY RANCH VILLAGE 8 EAST

SEE SHEET 29

SD STA 70+75.00 MATCHLINE
SEE SHEET 29

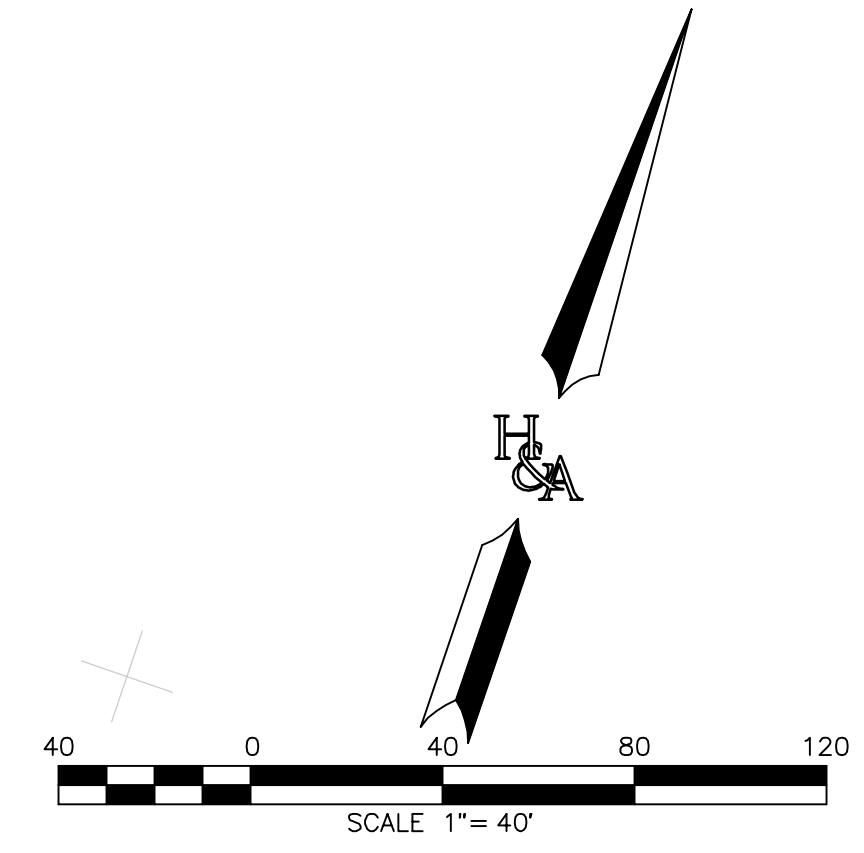


SEE SHEET 35

SEE SHEET 32
ROUGH GRADING PLANS FOR
OTAY RANCH VILLAGE 8 EAST

STORM DRAIN DATA

BEARING/DELTA	RADIUS	LENGTH	REMARKS
1 N 18°40'05" W		27.37'	12" HDPE
2 N 20°19'50" E		28.54'	18" HDPE
3 N 65°19'50" E		4.23'	18" HDPE
4 N 24°41'40" W		137.83'	18" HDPE
5 N 24°41'40" W		48.29'	18" HDPE
6 N 61°30'00" W		10.50'	30" HDPE
7 N 61°30'00" W		44.25'	30" HDPE
8 N 73°30'00" E		191.32'	30" HDPE
9 N 18°00'00" W		8.00'	18" HDPE
10 N 18°00'00" W		8.00'	18" HDPE
11 N 83°14'07" W		54.23'	30" HDPE
12 N 18°00'00" W		204.12'	66" RCP
13 N 88°00'00" W		28.73'	18" HDPE
14 N 18°00'00" W		176.78'	66" RCP
15 N 73°27'00" E		132.44'	72" RCP
16 N 18°00'00" W		10.50'	30" HDPE
17 N 18°00'00" W		59.22'	30" HDPE



**ROUGH GRADING PLANS SHEET FOR
OTAY RANCH VILLAGE 8 EAST**

CHULA VISTA TRACT NO. 22-0005

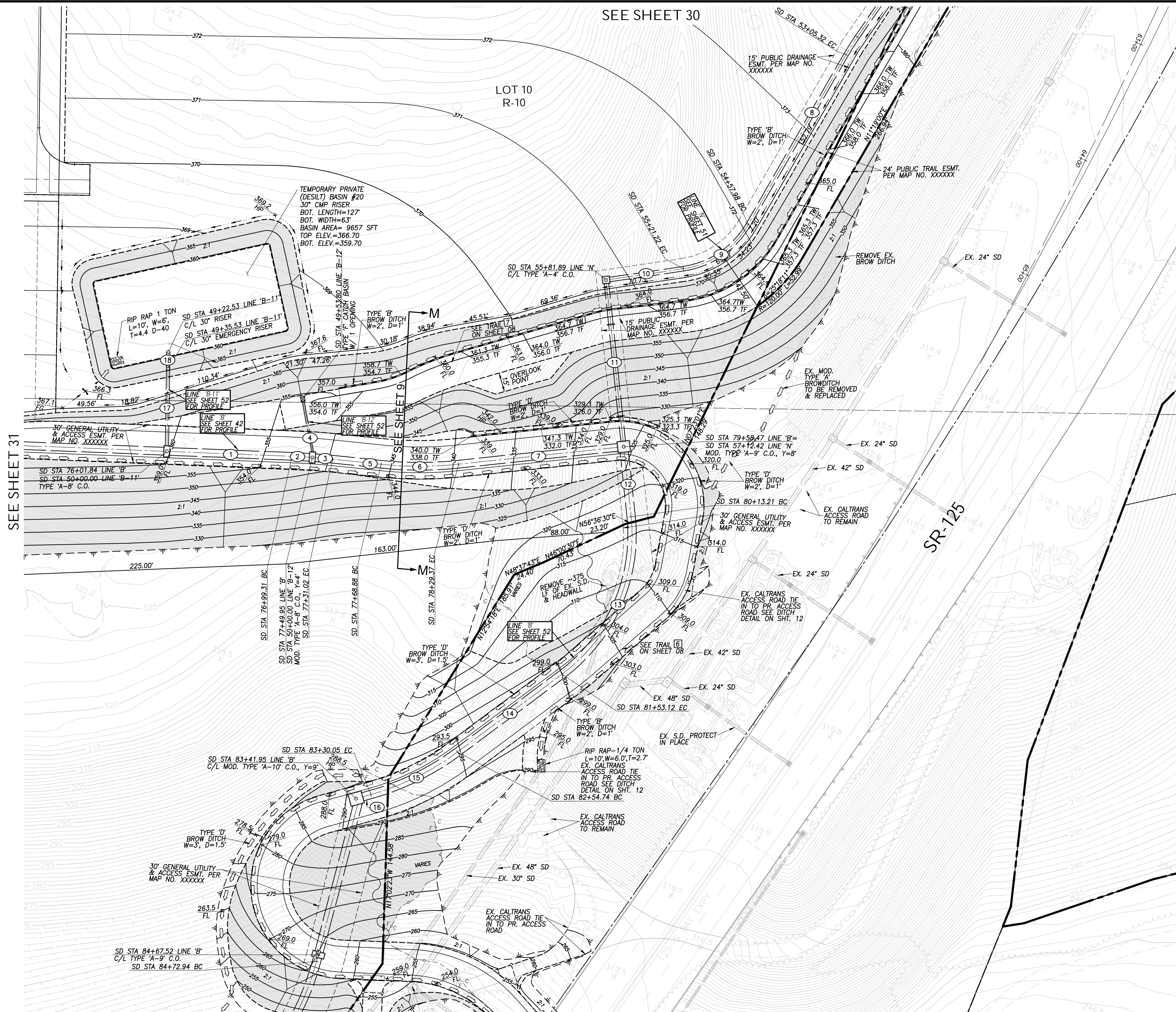
DEVELOPMENT SERVICES DEPARTMENT		ACCELA NO.: XXXX
		PROJECT NO.: XXXX
Approved: _____		TOTAL SHEETS: 90
By: _____ Principal Civil Engineer		1796 - 6340
Submitted: _____		NAD83 COORDINATES
By: _____		154 - 1773
Planning: _____		LAMBERT COORDINATES
AS BUILT		
CONTRACTOR: _____		DRAWING NO. G031
INSPECTOR: _____		XXXXX.XXX
DATE COMPLETED: _____		

HUNSAKER & ASSOCIATES
SAN DIEGO, INC.

PLANNING 9707 WARLES STREET
ENGINEERING San Diego, Ca 92121
SURVEYING PH(619)558-4500 - FX(619)558-1414

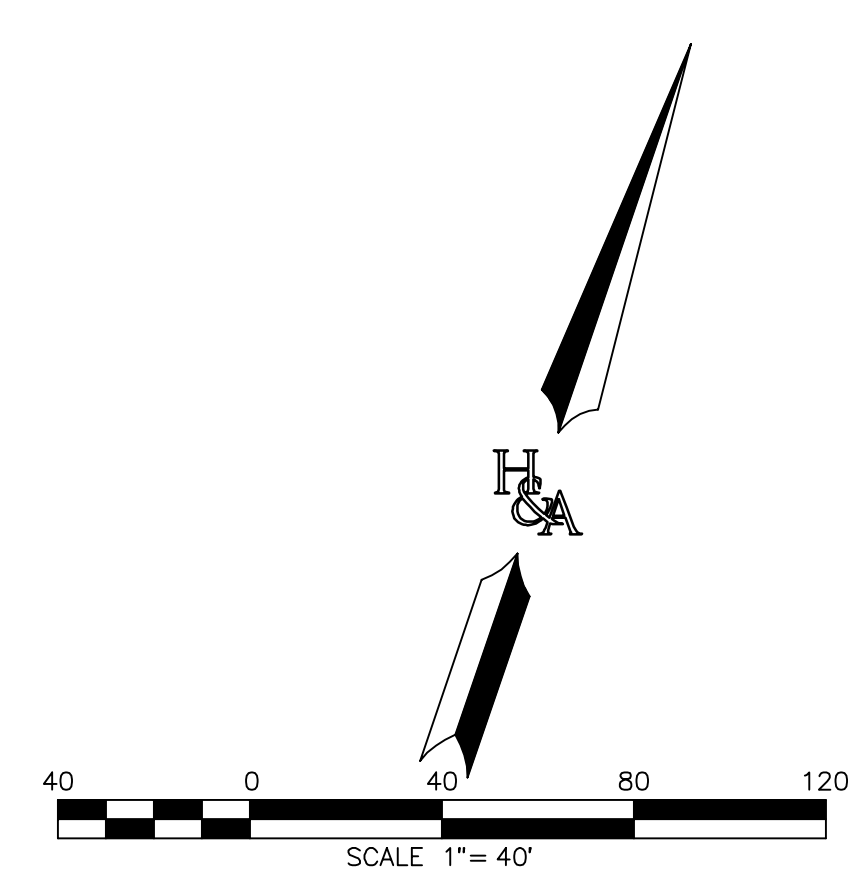
REGISTERED PROFESSIONAL ENGINEER
CALIFORNIA
No. 61827
CIVIL

AS BUILT		UTILITY NOTE	
Signature: _____ Printed Name: YOLANDA CALVO My Registration Expires: _____	Date: _____ P.E. No. 61827 Discipline: _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
REFERENCE DRAWINGS		REVISIONS	
C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS	SR-125 PLANS-11232304	
C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS	
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS	
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS	



STORM DRAIN DATA

NO.	BEARING/DELTA	RADIUS	LENGTH	REMARKS
1	N 73°27'00" E		95.47	72" RCP
2	3°38'00"	500.00'	13.85'	72" RCP
3	N 77°05'00" E	500.00'	13.85'	72" RCP
4	N 32°55'00" W		40.70'	18" HDPE
5	N 77°05'00" E		37.87'	72" RCP
6	11°57'00"	290.00'	60.48'	72" RCP
7	N 65°08'00" E		124.61'	72" RCP
8	N 11°05'00" E		152.66'	42" HDPE
9	51°46'00"	70.00'	63.24'	42" HDPE
10	N 62°51'00" E		58.16'	42" HDPE
11	N 24°52'00" W		124.03'	42" HDPE
12	N 24°52'00" W		50.74'	78" RCP
13	59°22'44"	135.00'	139.91'	78" RCP
14	N 34°30'44" E		101.62'	78" RCP
15	21°02'52"	205.00'	75.31'	78" RCP
16	N 55°33'36" E		6.90'	78" RCP
17	N 18°00'00" W		59.22'	30" HDPE



SEE SHEET 31

SEE SHEET 30

SEE SHEET 36

AS BUILT		UTILITY NOTE	
SIGNATURE YOLANDA CALVO	Date P.E. No. 61827	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
My Registration Expires	Discipline		
REFERENCE DRAWINGS		REVISIONS	
C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS	SR-125 PLANS-11232304	
C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS	
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS	
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS	

Designed By:	Drawn By:	Checked By:
A.C.G./P.A.A.	P.A.A.	Y.C.
Plans Prepared Under Supervision Of: _____ Date: _____		
YOLANDA CALVO R.C.E. No. 61827		

THE CITY OF CHULA VISTA

ROUGH GRADING PLANS SHEET FOR OTAY RANCH VILLAGE 8 EAST

CHULA VISTA TRACT NO. 22-0005

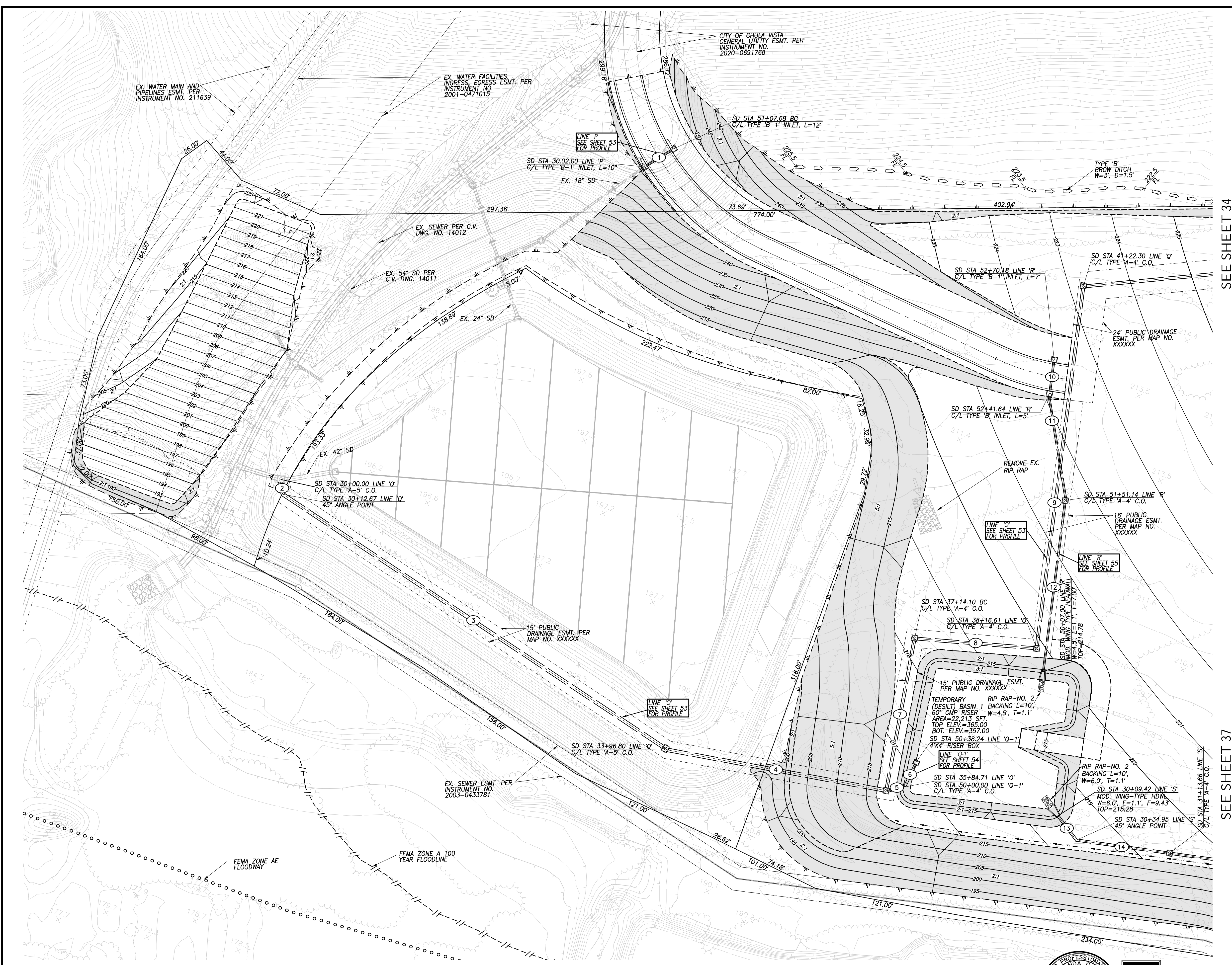
DEVELOPMENT SERVICES DEPARTMENT

Approved: _____	ACCELA NO.: XXXX
By: _____ Principal Civil Engineer	PROJECT NO.: XXXX
Submitted: _____	TOTAL SHEETS: 90
By: _____	1796 - 6340
Planning: _____	NAD83 COORDINATES
Landscape: _____	154 - 1773
AS BUILT	
CONTRACTOR: _____	DRAWING NO. G032
INSPECTOR: _____	XXXXX.XXX
DATE COMPLETED: _____	LAMBERT COORDINATES

ROUGH GRADING PLANS FOR OTAY RANCH VILLAGE 8 EAST

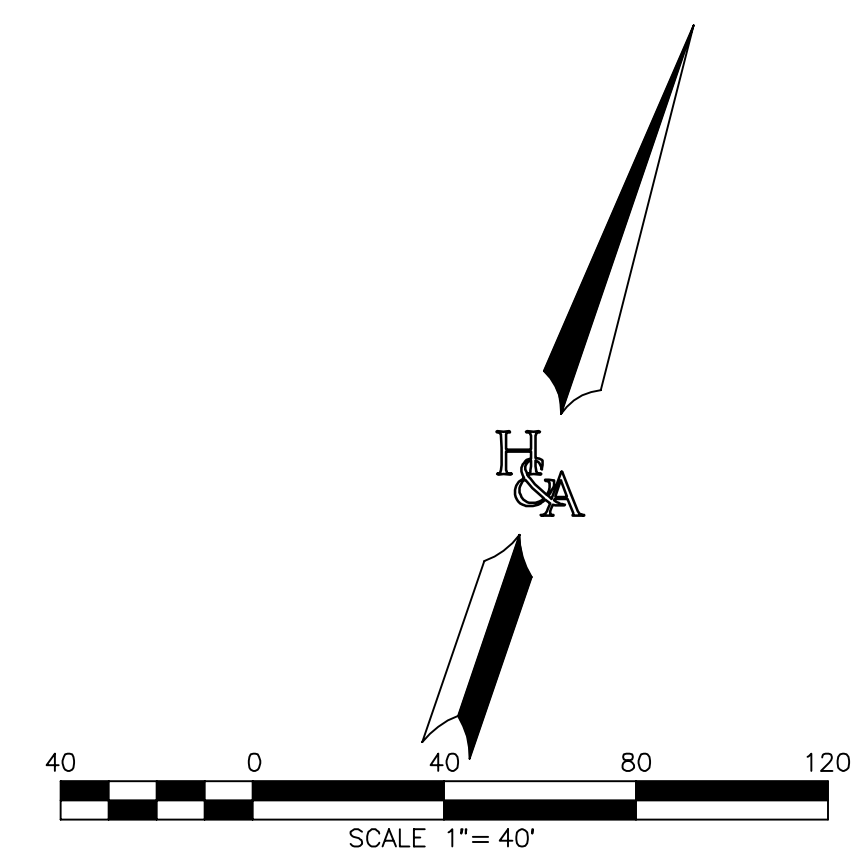
R:\0920\Eng\Rough Grading\0920RG32

STORM DRAIN DATA				
NO.	BEARING/Delta	RADIUS	LENGTH	REMARKS
1	N 39°11'12" E		24.50'	18" HDPE
2	N 30°13'25" W		10.17'	36" HDPE
3	N 75°13'25" W		382.13'	36" HDPE
4	N 81°43'00" E		183.91'	36" HDPE
5	N 51°43'00" E		15.00'	24" HDPE
6	N 6°43'00" E		19.24'	24" HDPE
7	N 8°17'00" W		125.60'	30" HDPE
8	N 75°48'00" E		98.30'	30" HDPE
9	N 11°27'56" W		301.69'	30" HDPE
10	N 11°23'16" W		24.55'	18" HDPE
11	N 28°05'14" W		86.50'	18" HDPE
12	N 11°27'56" W		142.14'	18" HDPE
13	N 55°52'00" W		25.53'	24" HDPE
14	N 79°08'00" E		76.71'	24" HDPE



SEE SHEET 34

SEE SHEET 37



ROUGH GRADING PLANS SHEET FOR OTAY RANCH VILLAGE 8 EAST

CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT		ACCELA NO.: XXXX
		PROJECT NO.: XXXX
Approved: _____		TOTAL SHEETS: 90
By: _____ Principal Civil Engineer		1796 - 6340
Submitted: _____		NA083 COORDINATES
By: _____		154 - 1773
Planning: _____	Landscape: _____	LAMBERT COORDINATES
AS BUILT		
CONTRACTOR: _____		DRAWING NO. G033
INSPECTOR: _____		XXXXX.XXX
DATE COMPLETED: _____		

AS BUILT		UTILITY NOTE	
SIGNATURE YOLANDA CALVO	Date P.E. No. 61827	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
My Registration Expires	Discipline		

REFERENCE DRAWINGS			REVISIONS			REVISIONS			REVISIONS		
C.V. DWG. NO.	DESCRIPTION	DATE	By	Date	App'd	By	Date	App'd	By	Date	App'd
C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS	SR-125 PLANS-11232304									
C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS									
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS									
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS									

REGISTERED PROFESSIONAL ENGINEER
YOLANDA CALVO
No. 61827
CIVIL
STATE OF CALIFORNIA

HUNSAKER & ASSOCIATES
SAN DIEGO, INC.

PLANNING: 9707 WARLES STREET
ENGINEERING: San Diego, Ca 92121
SURVEYING: PH(619)558-4500 - FX(619)558-1414

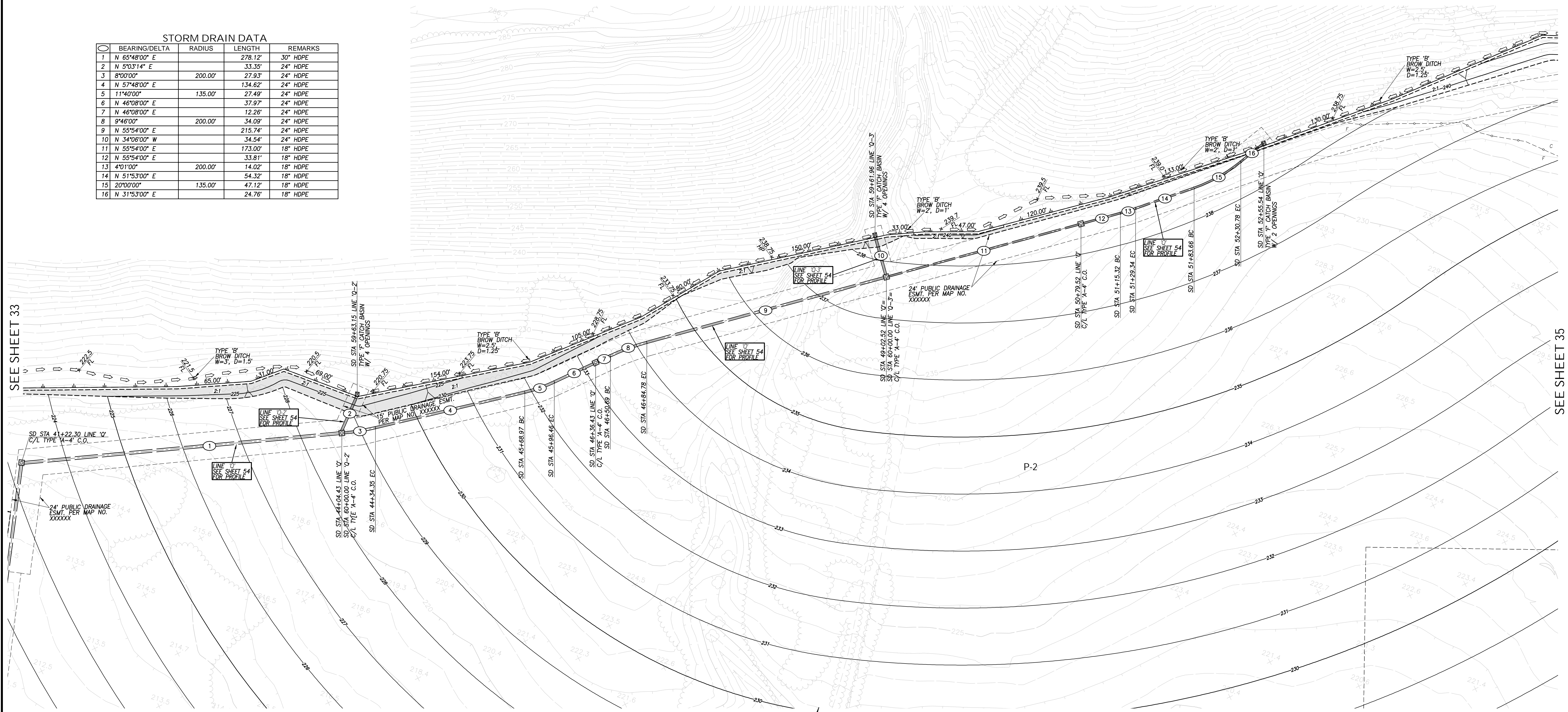
**THE CITY OF
CHULA VISTA**

Designed By: A.C.G./P.A.A. Drawn By: P.A.A. Checked By: Y.C.
Plans Prepared Under Supervision Of: _____ Date: _____
YOLANDA CALVO R.C.E. No. 61827

STORM DRAIN DATA

LINE	BEARING/Delta	RADIUS	LENGTH	REMARKS
1	N 65°48'00" E		278.12'	30" HDPE
2	N 5°03'14" E		33.35'	24" HDPE
3	8°00'00"	200.00'	27.93'	24" HDPE
4	N 57°48'00" E		134.62'	24" HDPE
5	11°40'00"	135.00'	27.49'	24" HDPE
6	N 46°08'00" E		37.97'	24" HDPE
7	N 46°08'00" E		12.26'	24" HDPE
8	9°48'00"	200.00'	34.09'	24" HDPE
9	N 55°54'00" E		215.74'	24" HDPE
10	N 34°08'00" W		34.54'	24" HDPE
11	N 55°54'00" E		173.00'	18" HDPE
12	N 55°54'00" E		33.81'	18" HDPE
13	4°01'00"	200.00'	14.02'	18" HDPE
14	N 51°53'00" E		54.32'	18" HDPE
15	20°00'00"	135.00'	47.12'	18" HDPE
16	N 31°53'00" E		24.76'	18" HDPE

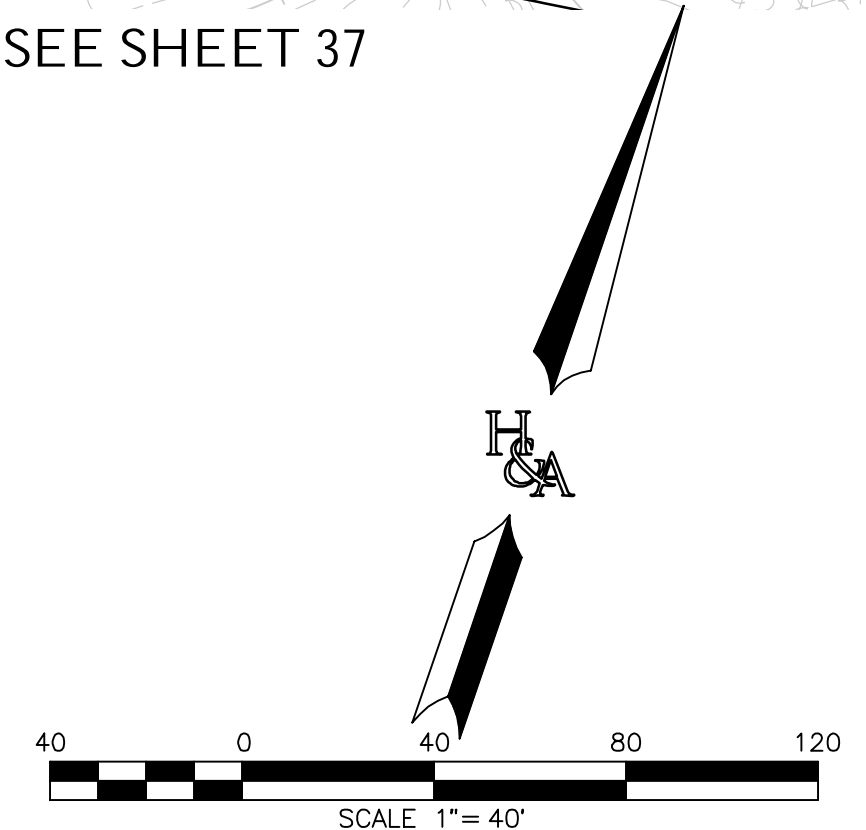
SEE SHEET 33



SEE SHEET 35

SEE SHEET 37

AS BUILT		UTILITY NOTE	
Signature: YOLANDA CALVO	Date: P.E. No. 61827	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
My Registration Expires: _____	Discipline: _____		



REGISTERED PROFESSIONAL ENGINEER
YOLANDA CALVO
No. 61827
CIVIL
STATE OF CALIFORNIA

HUNSAKER & ASSOCIATES
SAN DIEGO, INC.
PLANNING 9707 WARLES STREET
ENGINEERING San Diego, Ca 92121
SURVEYING PH858558-4500 - FX858558-1414

ROUGH GRADING PLANS SHEET FOR OTAY RANCH VILLAGE 8 EAST
CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT

ACCELA NO.: XXXX
PROJECT NO.: XXXX
TOTAL SHEETS: 90
1796 - 6340
NAD83 COORDINATES
154 - 1773
LAMBERT COORDINATES

Approved: _____
By: _____ Principal Civil Engineer

Submitted: _____
By: _____

Planning: _____ Landscape: _____

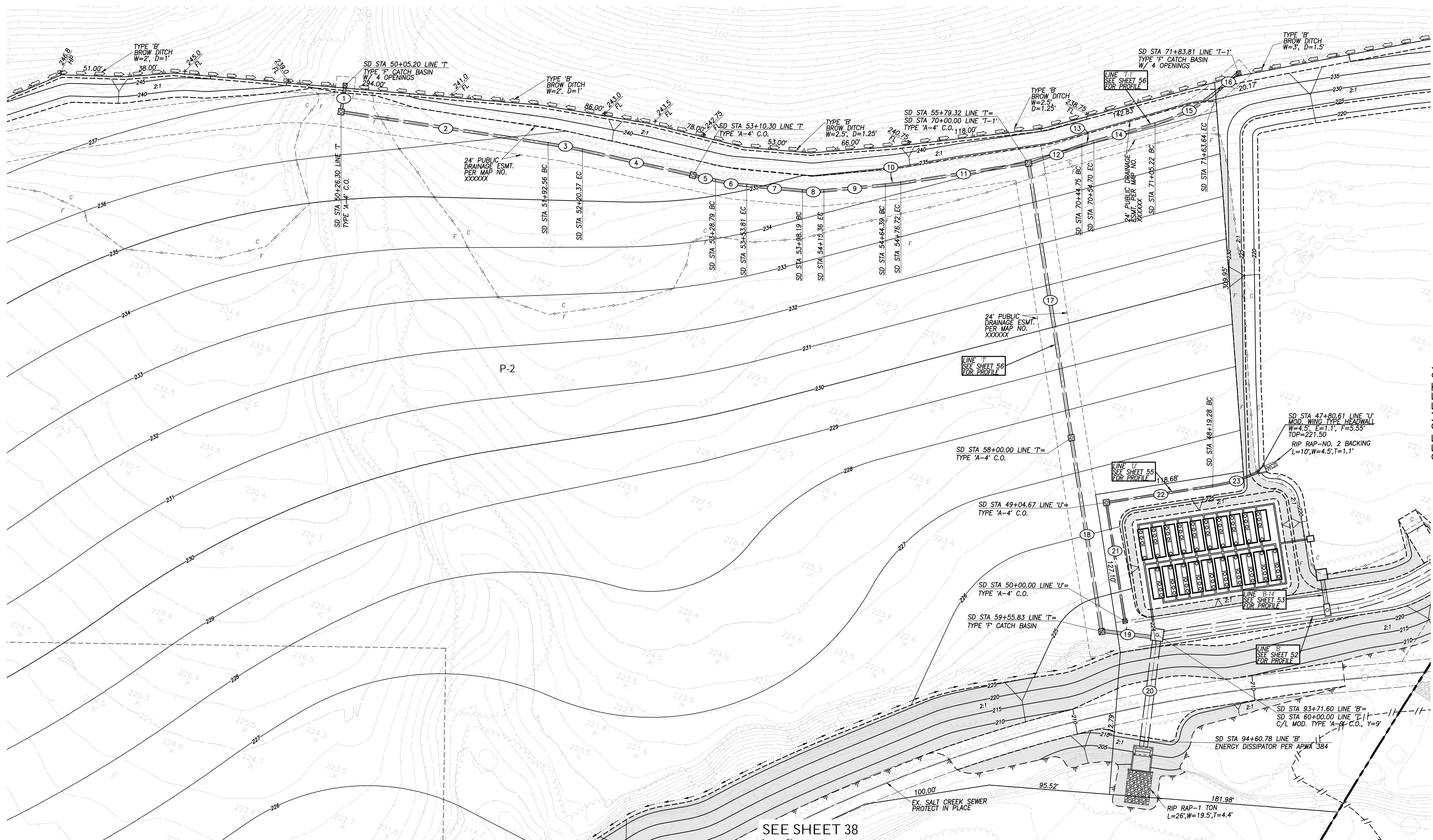
AS BUILT

CONTRACTOR: _____
INSPECTOR: _____ DATE COMPLETED: _____

DRAWING NO. G034
XXXXX.XXX

REFERENCE DRAWINGS	REVISIONS	By	Date	App'd	REVISIONS	By	Date	App'd	Designed By:	Drawn By:	Checked By:
C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS	SR-125 PLANS-11232304							A.C.G./P.A.A.	P.A.A.	Y.C.
C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS							Plans Prepared Under Supervision Of: _____ Date: _____		
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS							YOLANDA CALVO	R.C.E. No. 61827	
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS									

SEE SHEET 31

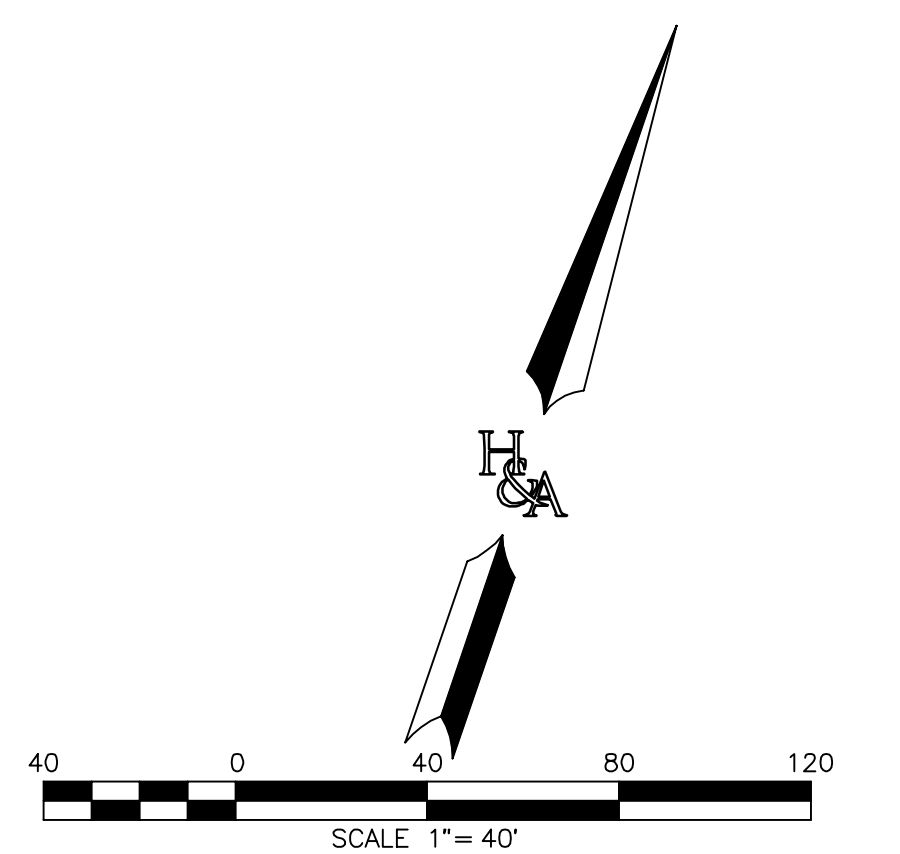


STORM DRAIN DATA				
LINE NO.	BEARING/Delta	RADIUS	LENGTH	REMARKS
1	N 10°04'00" W		17.60'	24" HDPE
2	N 79°56'00" E		164.27'	24" HDPE
3	S 59°00" W	400.00'	27.81'	24" HDPE
4	N 83°55'00" E		87.92'	24" HDPE
5	N 83°55'00" E		16.49'	24" HDPE
6	N 71°00'00" E	200.00'	25.02'	24" HDPE
7	N 76°45'00" E		44.38'	24" HDPE
8	N 10°56'00" W	90.00'	17.17'	24" HDPE
9	N 65°49'00" E		49.03'	24" HDPE
10	N 3°32'00" W	200.00'	12.33'	24" HDPE
11	N 62°17'00" E		100.60'	24" HDPE
12	N 52°17'00" E		42.75'	24" HDPE
13	N 2°51'00" W	200.00'	9.95'	24" HDPE
14	N 55°08'00" E		50.52'	24" HDPE
15	N 24°47'37" W	135.00'	58.42'	24" HDPE
16	N 30°20'23" E		18.94'	24" HDPE
17	N 27°43'00" W		216.68'	30" HDPE
18	N 27°43'00" W		151.83'	30" HDPE
19	N 78°11'59" E		37.68'	30" HDPE
20	N 11°48'01" W		80.68'	78" RCP
21	N 27°43'00" W		92.10'	18" HDPE
22	N 62°17'00" E		83.39'	18" HDPE
23	N 16°24'41" W	135.00'	38.67'	18" HDPE

SEE SHEET 34

SEE SHEET 36

SEE SHEET 38



AS BUILT	UTILITY NOTE
SIGNATURE: YOLANDA CALVO Date: _____ My Registration Expires: _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.

REFERENCE DRAWINGS	REVISIONS	By	Date	App'd	REVISIONS	By	Date	App'd
C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS							
C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS							
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS							
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS							
	C.V. DWG. NO. 22043-GRADING PLANS							

Designed By:	Drawn By:	Checked By:
AC.G/P.A.A.	P.A.A.	Y.C.
Plans Prepared Under Supervision Of: _____ Date: _____		
YOLANDA CALVO R.C.E. No. 61827		



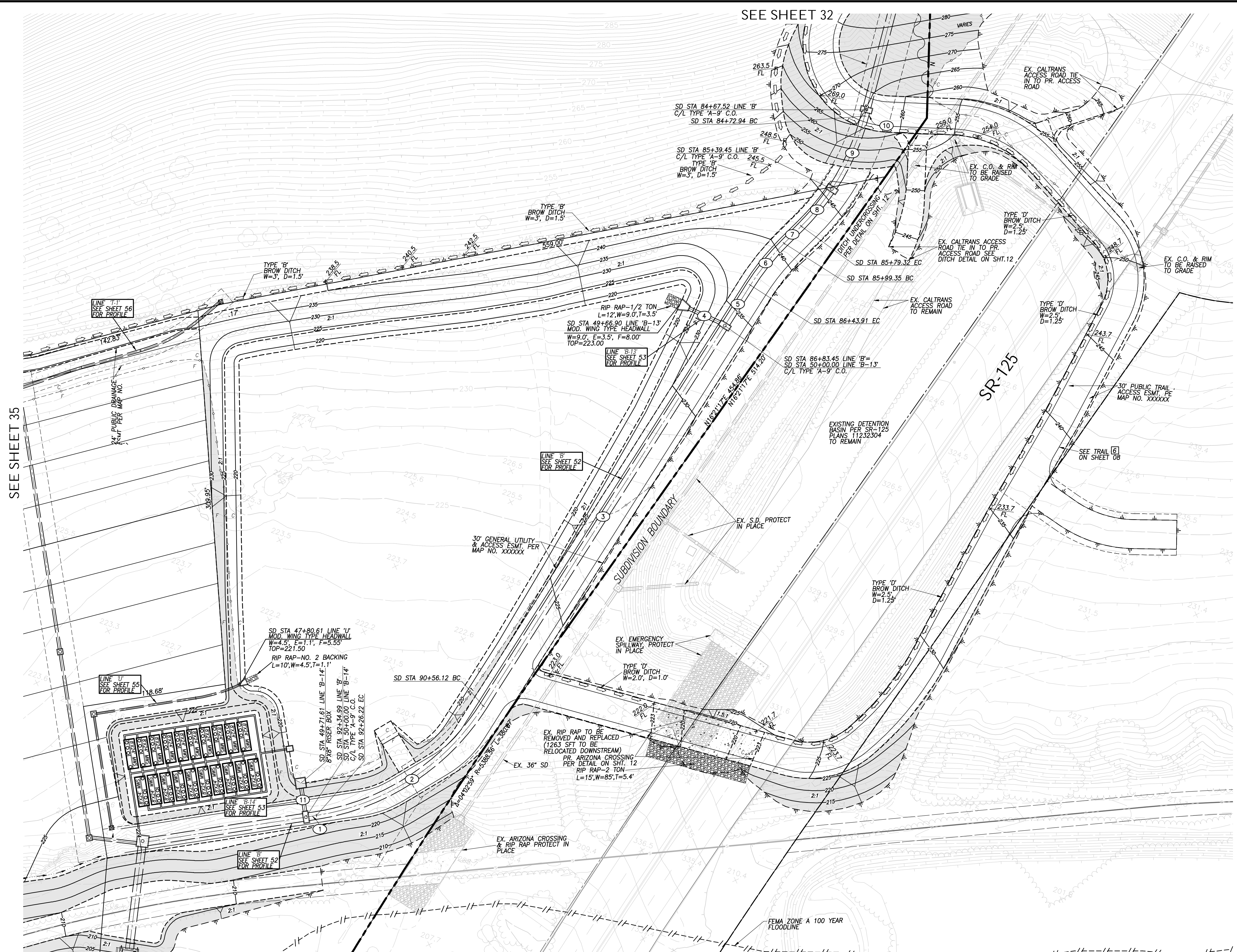
HUNSAKER & ASSOCIATES
SAN DIEGO, INC.
PLANNING 9707 WARLES STREET
ENGINEERING San Diego, Ca 92121
SURVEYING PH(619)558-4500 FX(619)558-1414

THE CITY OF CHULA VISTA

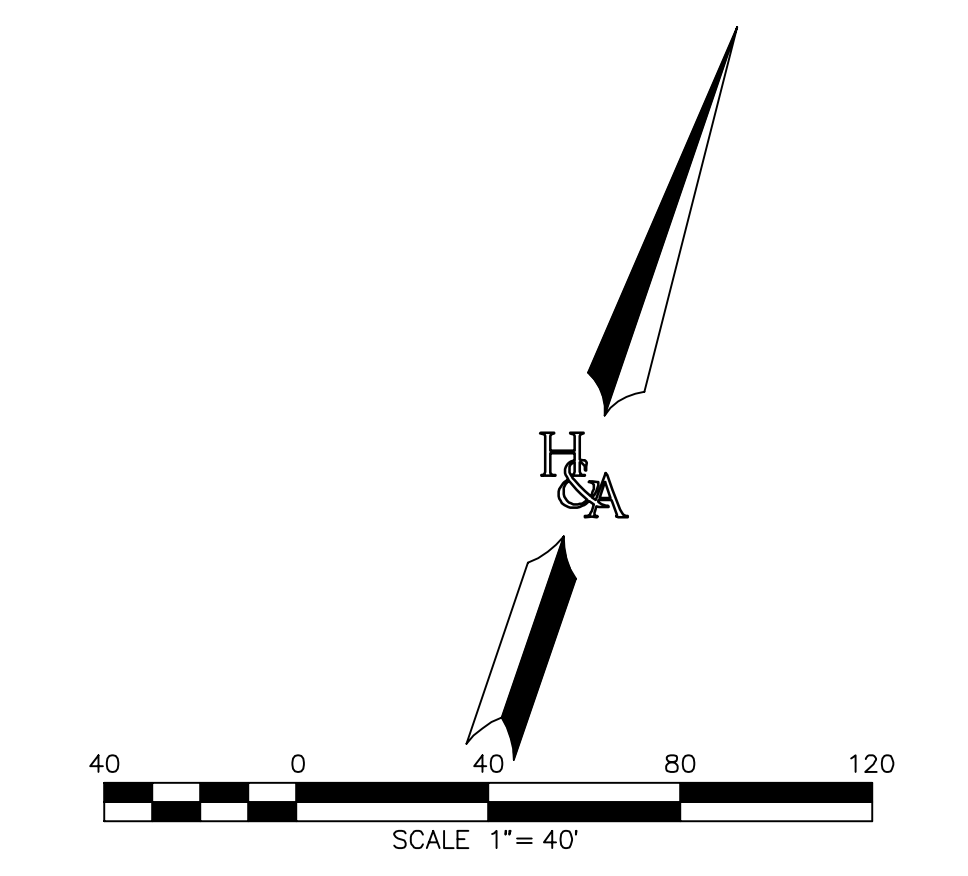
ROUGH GRADING PLANS SHEET FOR OTAY RANCH VILLAGE 8 EAST	
CHULA VISTA TRACT NO. 22-0005	
DEVELOPMENT SERVICES DEPARTMENT	
Approved: _____	ACCELA NO.: XXXX
By: _____ Principal Civil Engineer	PROJECT NO.: XXXX
Submitted: _____	TOTAL SHEETS: 90
By: _____	1796 - 6340
Planning: _____	NAD83 COORDINATES
Landscape: _____	154 - 1773
LAMBERT COORDINATES	
AS BUILT	
CONTRACTOR: _____	DRAWING NO. G035
INSPECTOR: _____	XXXXX.XXX
DATE COMPLETED: _____	

SEE SHEET 32

STORM DRAIN DATA				
NO.	BEARING/Delta	RADIUS	LENGTH	REMARKS
1	N 62°17'00" E		6.77'	72" RCP
2	48°43'46"	200.00'	170.10'	72" RCP
3	N 13°33'14" E		370.67'	72" RCP
4	N 84°17'15" W		28.60'	36" HDPE
5	N 13°33'14" E		37.54'	78" RCP
6	12°46'00"	200.00'	44.56'	78" RCP
7	N 26°19'14" E		20.03'	78" RCP
8	10°50'50"	200.00'	37.86'	78" RCP
9	18°28'54"	200.00'	64.51'	78" RCP
10	N 4°09'16" W		3.42'	78" RCP
11	N 27°43'00" W		19.89'	36" HDPE



SEE SHEET 35



AS BUILT		UTILITY NOTE	
SIGNATURE YOLANDA CALVO	Date P.E. No. 61827	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
My Registration Expires	Discipline		
REFERENCE DRAWINGS		REVISIONS	
C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS	SR-125 PLANS-11232304	
C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS	
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS	
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS	

REVISIONS	By	Date	App'd	REVISIONS	By	Date	App'd

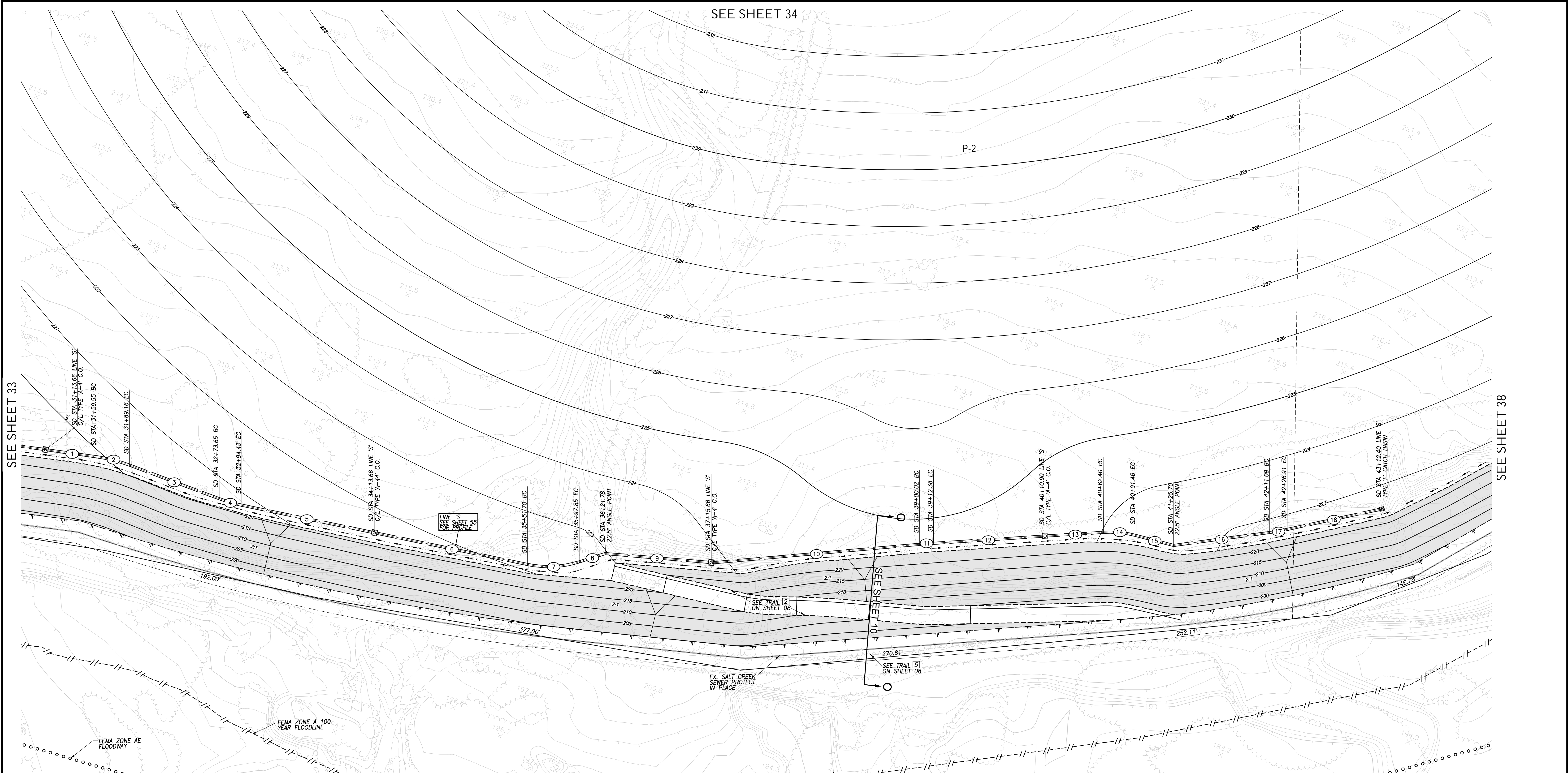
Designed By:	Drawn By:	Checked By:
A.C.G./P.A.A.	P.A.A.	Y.C.
Plans Prepared Under Supervision Of: _____ Date: _____		
YOYANDA CALVO R.C.E. No. 61827		

THE CITY OF CHULA VISTA

ROUGH GRADING PLANS SHEET FOR OTAY RANCH VILLAGE 8 EAST	
CHULA VISTA TRACT NO. 22-0005	
DEVELOPMENT SERVICES DEPARTMENT	
Approved: _____	ACCELA NO.: XXXX
By: _____ Principal Civil Engineer	PROJECT NO.: XXXX
Submitted: _____	TOTAL SHEETS: 90
By: _____	1796 - 6340
Planning: _____	NAD83 COORDINATES
Landscape: _____	154 - 1773
LAMBERT COORDINATES	
AS BUILT	
CONTRACTOR: _____	DRAWING NO. G036
INSPECTOR: _____	XXXXX.XXX
DATE COMPLETED: _____	

ROUGH GRADING PLANS FOR OTAY RANCH VILLAGE 8 EAST

SEE SHEET 34

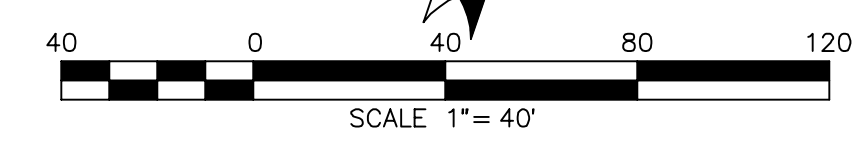


SEE SHEET 33

SEE SHEET 38

STORM DRAIN DATA

Station	Bearing/Delta	Radius	Length	Remarks
1	N 79°08'00" E		43.89'	24" HDPE
2	12°34'00"	135.00'	29.61'	24" HDPE
3	N 88°18'00" W		84.50'	24" HDPE
4	N 84°49'00"	135.00'	20.77'	24" HDPE
5	N 82°53'00" E		117.23'	24" HDPE
6	N 82°53'00" E		136.04'	24" HDPE
7	29°23'00"	90.00'	46.16'	24" HDPE
8	N 53°30'00" E		23.93'	24" HDPE
9	N 76°00'00" E		91.88'	24" HDPE
10	N 68°04'00" E		182.36'	24" HDPE
11	1°25'00"	500.00'	12.36'	24" HDPE
12	N 67°29'00" E		96.52'	24" HDPE
13	N 67°29'00" E		49.50'	24" HDPE
14	18°30'00"	90.00'	29.06'	24" HDPE
15	N 85°59'00" E		34.24'	24" HDPE
16	N 63°29'00" E		85.39'	24" HDPE
17	4°32'00"	200.00'	15.82'	24" HDPE
18	N 58°57'00" E		83.99'	24" HDPE



AS BUILT		UTILITY NOTE	
Signature: YOLANDA CALVO	Date: _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
Printed Name: YOLANDA CALVO	P.E. No.: 61827		
My Registration Expires: _____	Discipline: _____		

REFERENCE DRAWINGS			REVISIONS		
C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS	SR-125 PLANS-11232304	By	Date	App'd
C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS			
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS			
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS			

REVISIONS			REVISIONS		
By	Date	App'd	By	Date	App'd

Designed By: A.C.G./P.A.A.	Drawn By: P.A.A.	Checked By: Y.C.
Plans Prepared Under Supervision Of: _____ Date: _____		
YOLANDA CALVO R.C.E. No. 61827		

THE CITY OF CHULA VISTA

ROUGH GRADING PLANS SHEET FOR OTAY RANCH VILLAGE 8 EAST

CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT		ACCELA NO.: XXXX
		PROJECT NO.: XXXX
Approved: _____		TOTAL SHEETS: 90
By: _____ Principal Civil Engineer		1796 - 6340
Submitted: _____		NAD83 COORDINATES
By: _____		154 - 1773
Planning: _____		LAMBERT COORDINATES
AS BUILT		DRAWING NO. G037
CONTRACTOR: _____		XXXXX.XXX
INSPECTOR: _____		DATE COMPLETED: _____

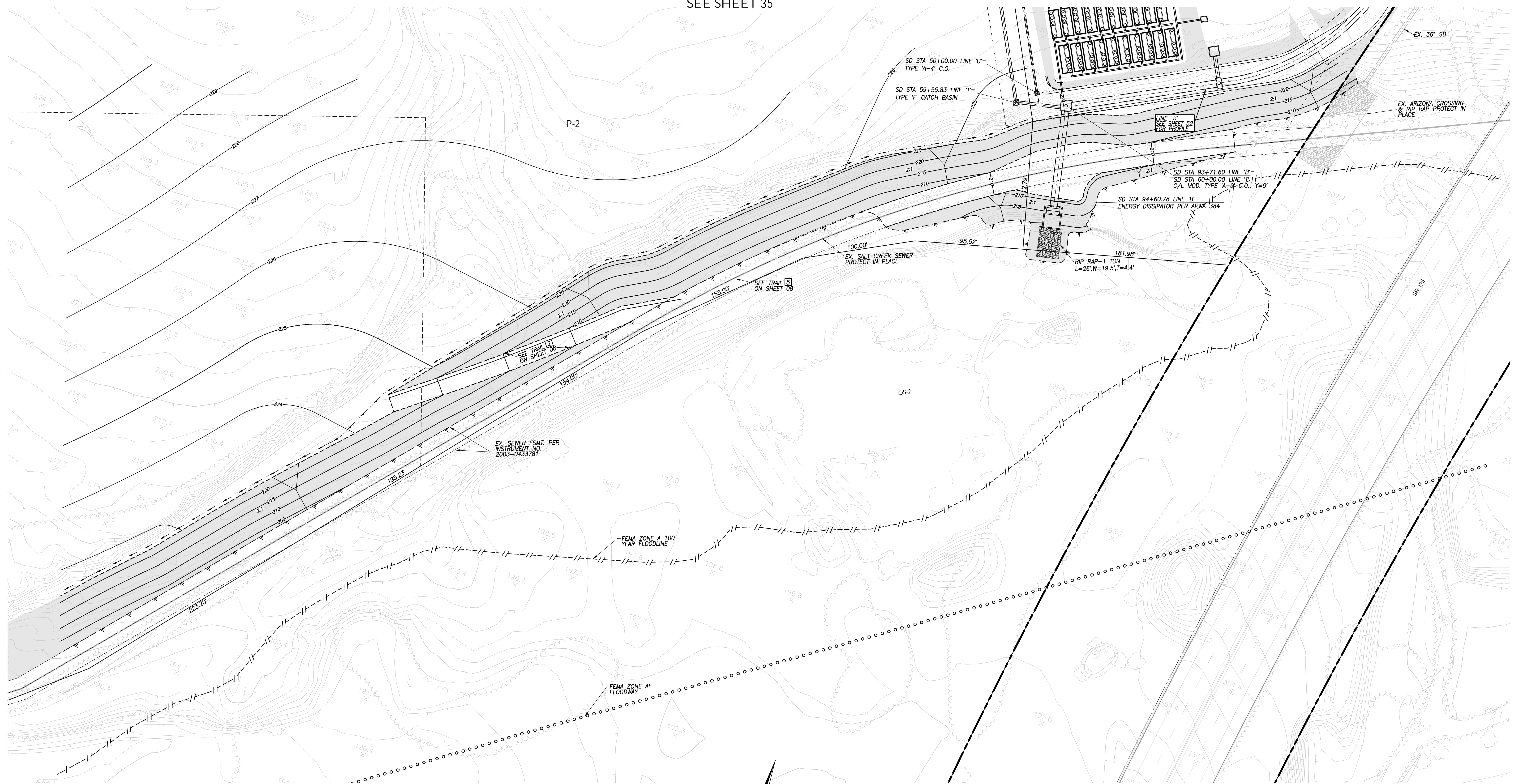


HUNSAKER & ASSOCIATES
SAN DIEGO, INC.
PLANNING 9707 WARLES STREET
ENGINEERING San Diego, Ca 92121
SURVEYING PH(619)558-4500 FX(619)558-1414

ROUGH GRADING PLANS FOR OTAY RANCH VILLAGE 8 EAST W.O. NO. 2395-0079

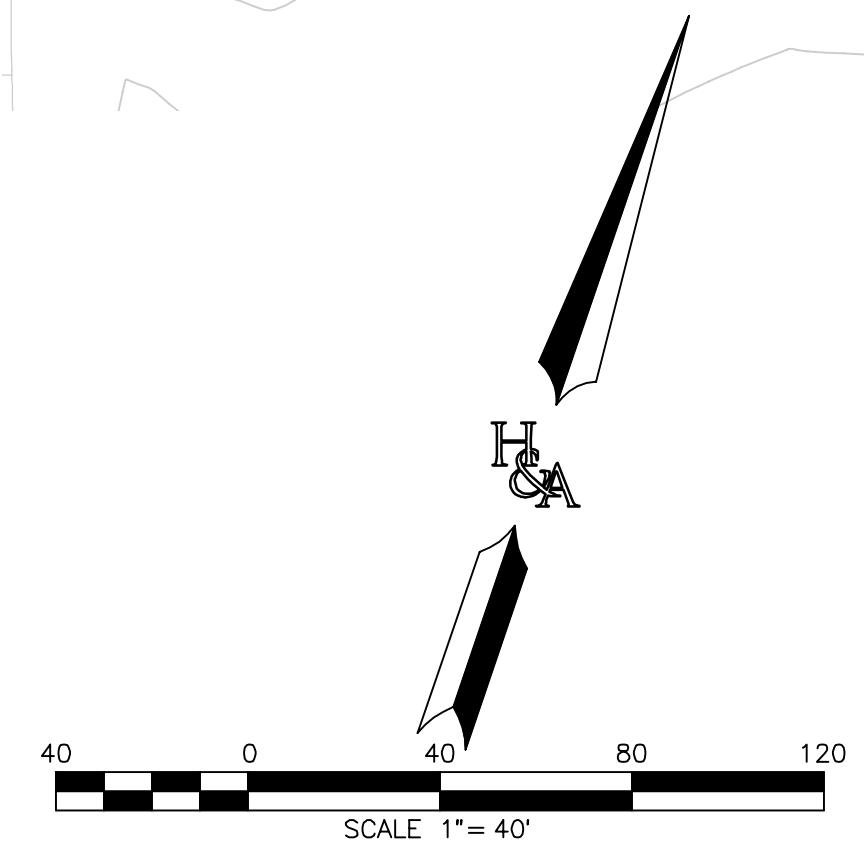
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SEE SHEET 35



SEE SHEET 37

ROUGH GRADING PLANS FOR OTAY RANCH VILLAGE 8 EAST



AS BUILT		UTILITY NOTE	
SIGNATURE YOLANDA CALVO	Date P.E. No. 61827	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
My Registration Expires	Discipline		

REFERENCE DRAWINGS			
C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS	SR-125 PLANS-11232304	
C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS	
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS	
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS	

REVISIONS				REVISIONS			
By	Date	App'd		By	Date	App'd	

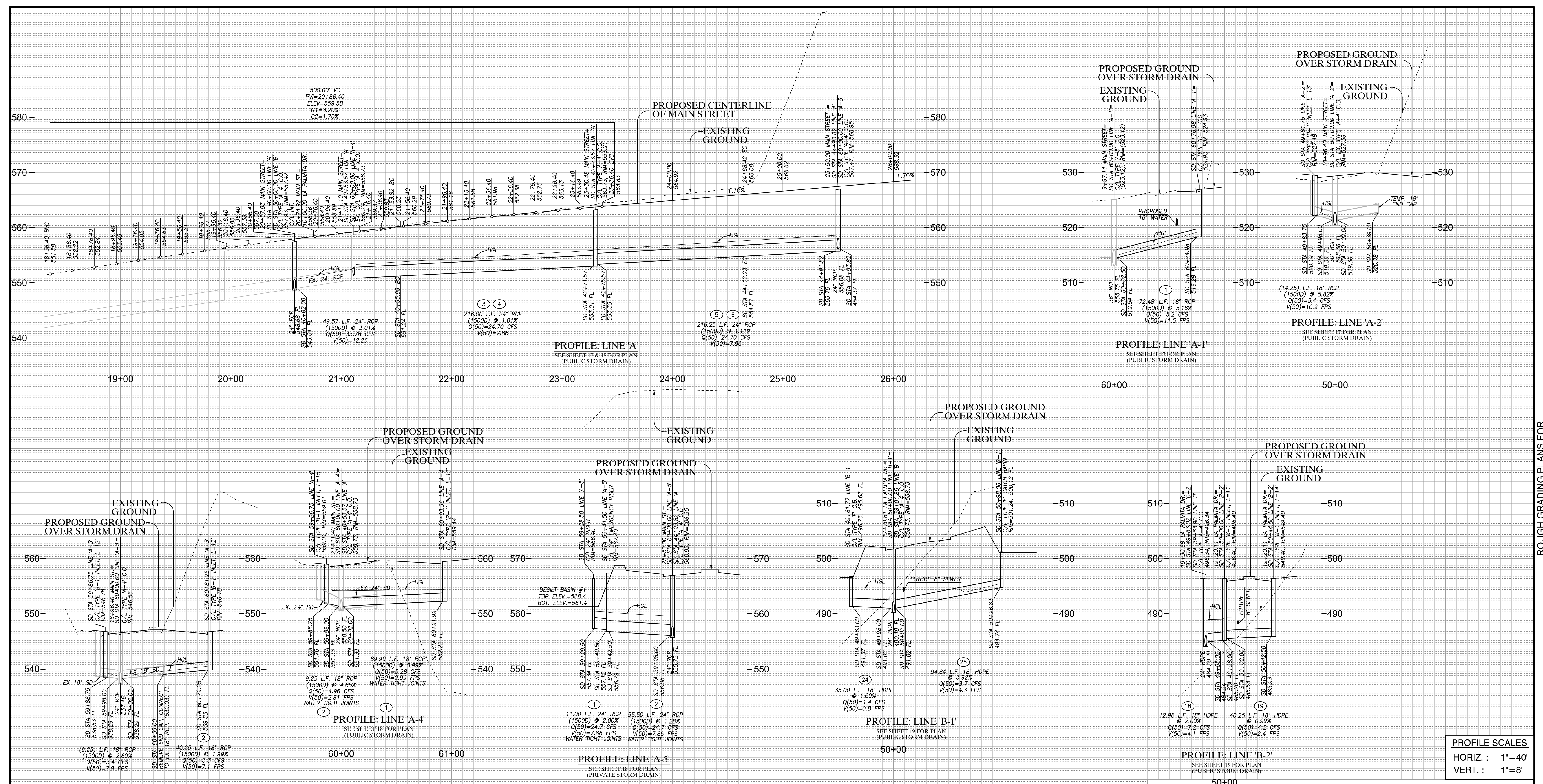
Designed By: A.C.G./P.A.A.	Drawn By: P.A.A.	Checked By: Y.C.
Plans Prepared Under Supervision Of: YOLANDA CALVO		
Date: R.C.E. No. 61827		

THE CITY OF CHULA VISTA

<p>IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING NOT TO SCALE</p>		<p>ROUGH GRADING PLANS SHEET FOR OTAY RANCH VILLAGE 8 EAST</p> <p>CHULA VISTA TRACT NO. 22-0005</p>	
DEVELOPMENT SERVICES DEPARTMENT		ACCELA NO.: XXXX	PROJECT NO.: XXXX
Approved: _____		TOTAL SHEETS: 90	1796 - 6340
By: _____ Principal Civil Engineer		NAD83 COORDINATES	154 - 1773
Submitted: _____		LAMBERT COORDINATES	
By: _____			
Planning: _____	Landscape: _____		
AS BUILT			
CONTRACTOR: _____		DRAWING NO. G038	XXXXX.XXX
INSPECTOR: _____		DATE COMPLETED: _____	



HUNSAKER & ASSOCIATES
SAN DIEGO, INC.
PLANNING 9707 WARLES STREET
ENGINEERING San Diego, Ca 92121
SURVEYING PH(619)558-4500 FX(619)558-1414



PROFILE SCALES

HORIZ. : 1"=40'

VERT. : 1"=8'

STORM DRAIN PROFILES SHEET FOR OTAY RANCH VILLAGE 8 EAST

CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT

ACCELA NO.: XXXX
PROJECT NO.: XXXX
TOTAL SHEETS: 90
1796 - 6340
NAD83 COORDINATES
154 - 1773
LAMBERT COORDINATES

Approved: _____
By: _____ Principal Civil Engineer

Submitted: _____
By: _____

Planning: _____ Landscape: _____

AS BUILT

CONTRACTOR: _____ DRAWING NO. G039
INSPECTOR: _____ DATE COMPLETED: _____

HUNSAKER & ASSOCIATES
SAN DIEGO, INC.

PLANNING 9707 WAPLES STREET
ENGINEERING San Diego, Ca 92121
SURVEYING PH4585558-4500 FX8585558-1414



THE CITY OF CHULA VISTA

Designed By: A.C.G./P.A.A. Drawn By: P.A.A. Checked By: Y.C.
Plans Prepared Under Supervision Of: _____ Date: _____
YOYANDA CALVO R.C.E. No. 61827

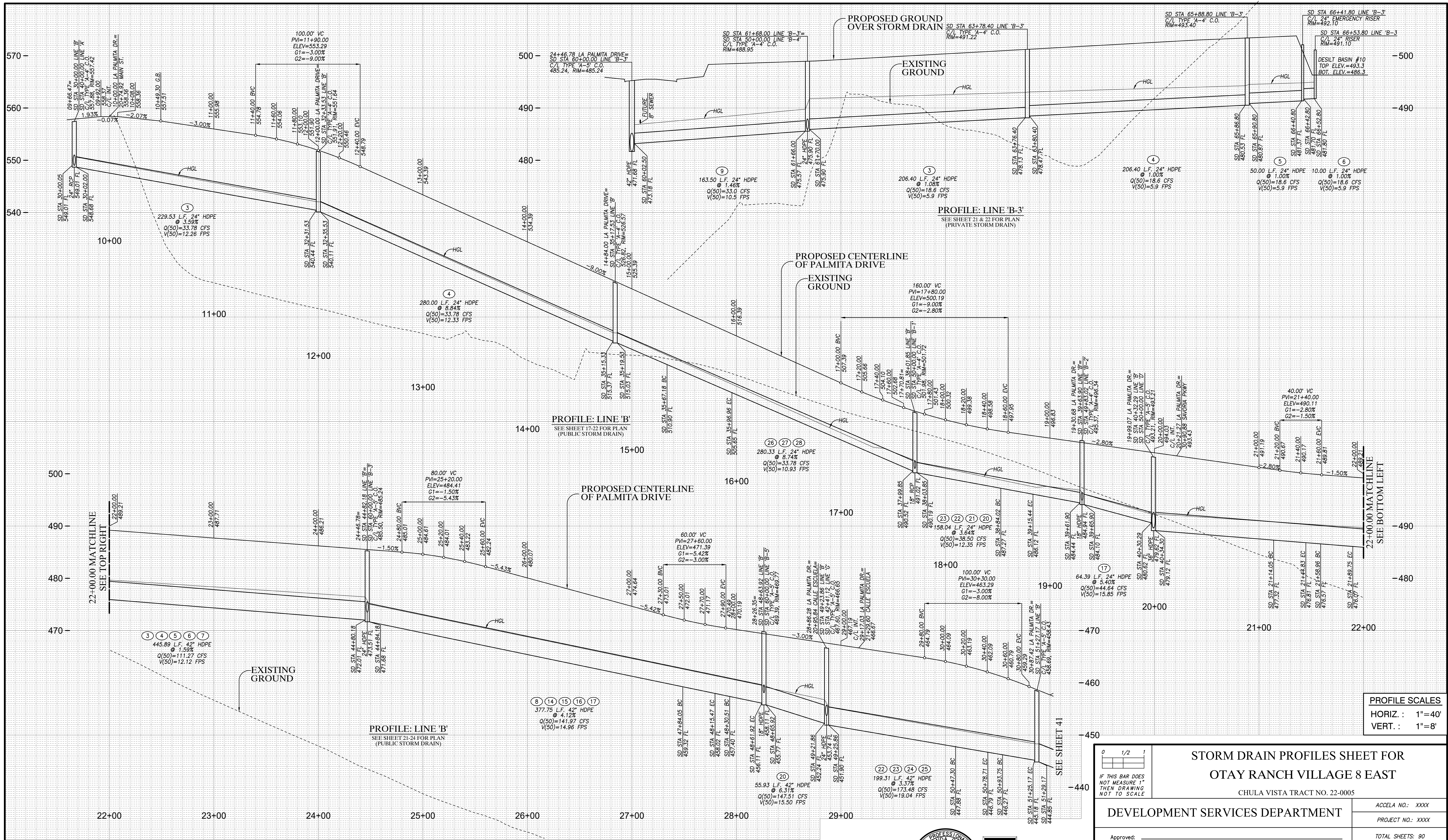
AS BUILT

SIGNATURE: _____ Date: _____
YOYANDA CALVO P.E. No. 61827
My Registration Expires: _____ Discipline: _____

UTILITY NOTE

ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.

REFERENCE DRAWINGS	REVISIONS	By	Date	App'd	REVISIONS	By	Date	App'd
C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS	SR-125 PLANS-11232304						
C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS						
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS						
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS						



PROFILE SCALES
 HORIZ. : 1"=40'
 VERT. : 1"=8'

STORM DRAIN PROFILES SHEET FOR OTAY RANCH VILLAGE 8 EAST
 CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT

Approved: _____
 By: _____ Principal Civil Engineer

Submitted: _____
 Planning: _____ Landscape: _____

AS BUILT

ACCELA NO.: XXXX
 PROJECT NO.: XXXX
 TOTAL SHEETS: 90
 1796 - 6340
 NAD83 COORDINATES
 154 - 1773
 LAMBERT COORDINATES

CONTRACTOR: _____
 INSPECTOR: _____ DATE COMPLETED: _____

DRAWING NO. **G040**



HUNSAKER & ASSOCIATES
 SAN DIEGO, INC.
 PLANNING 9707 WAPLES STREET
 ENGINEERING San Diego, CA 92121
 SURVEYING PH858558-4500 FAX858558-1414

Designed By: A.C.G./P.A.A. Drawn By: P.A.A. Checked By: Y.C.
 Plans Prepared Under Supervision Of: _____ Date: _____
 YOLANDA CALVO R.C.E. No. 61827

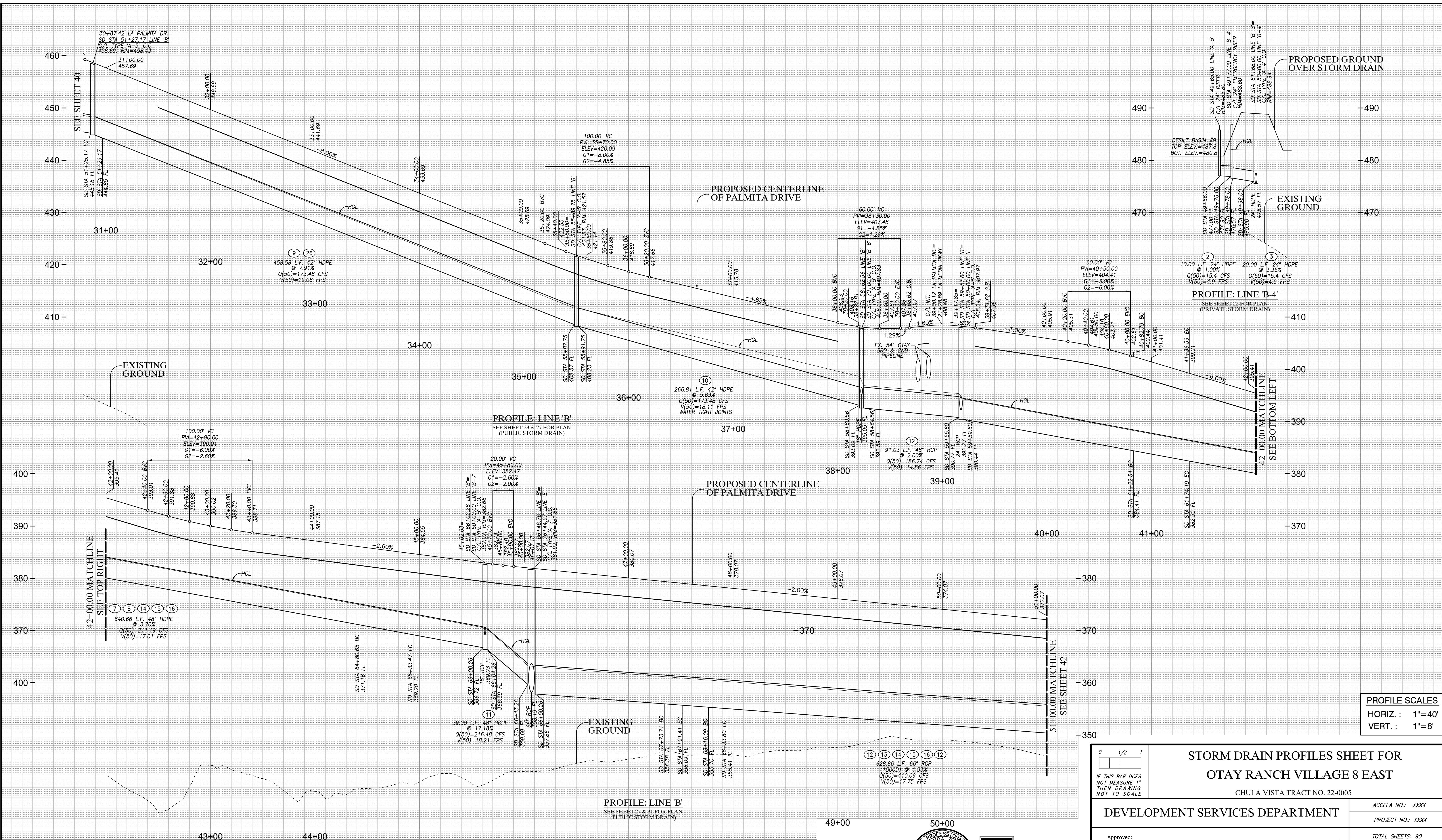
THE CITY OF CHULA VISTA

AS BUILT		UTILITY NOTE	
Signature: YOLANDA CALVO	Date: _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
My Registration Expires: _____	Discipline: _____		

REFERENCE DRAWINGS				REVISIONS			
C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS	SR-125 PLANS-11232304		By	Date	App'd	
C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS					
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS					
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS					

ROUGH GRADING PLANS FOR OTAY RANCH VILLAGE 8 EAST

C:\RENDER\XXXX\XX\X W.O. NO. 2395-0079



ROUGH GRADING PLANS FOR OTAY RANCH VILLAGE 8 EAST

PROFILE SCALES
 HORIZ. : 1"=40'
 VERT. : 1"=8'

STORM DRAIN PROFILES SHEET FOR OTAY RANCH VILLAGE 8 EAST

CHULA VISTA TRACT NO. 22-0005

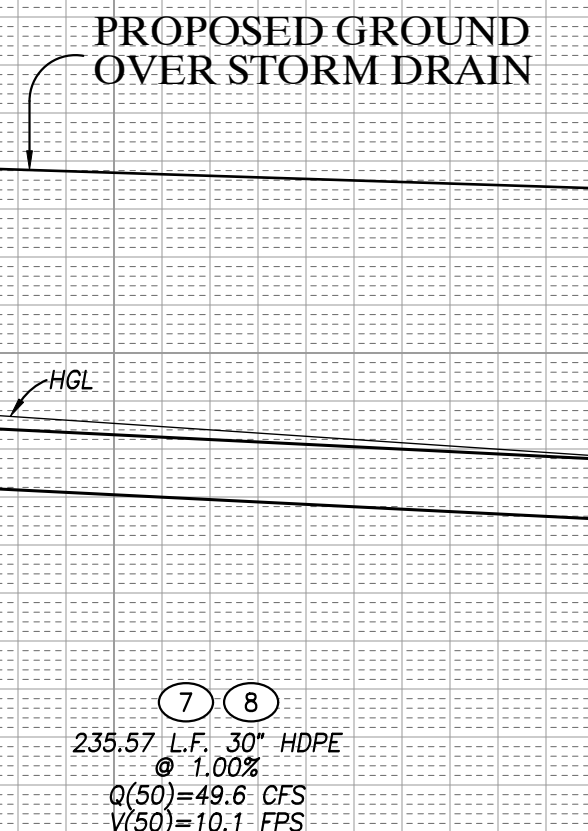
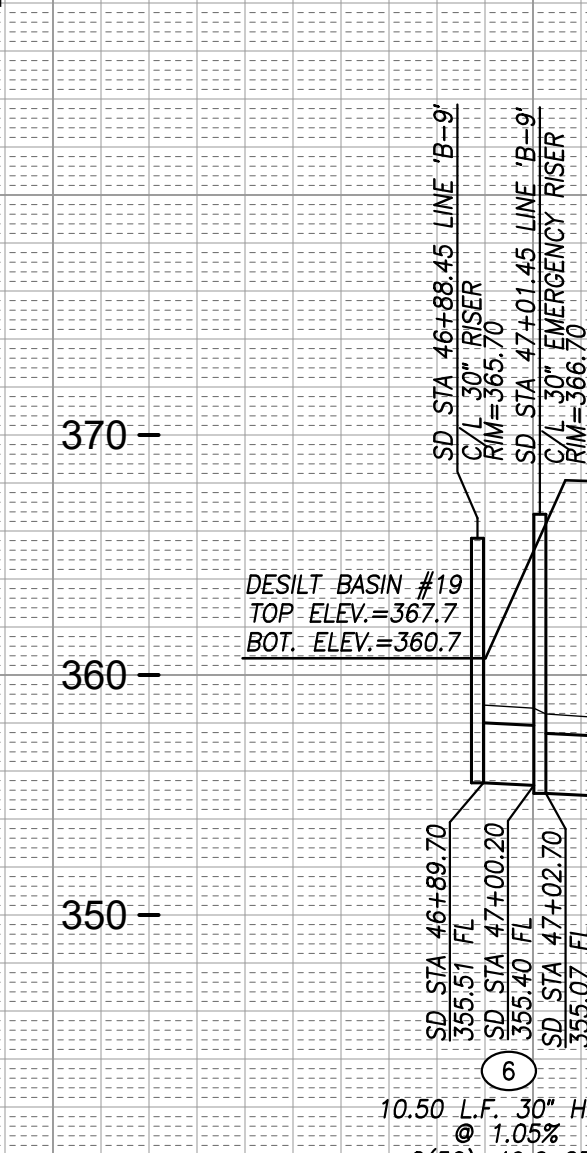
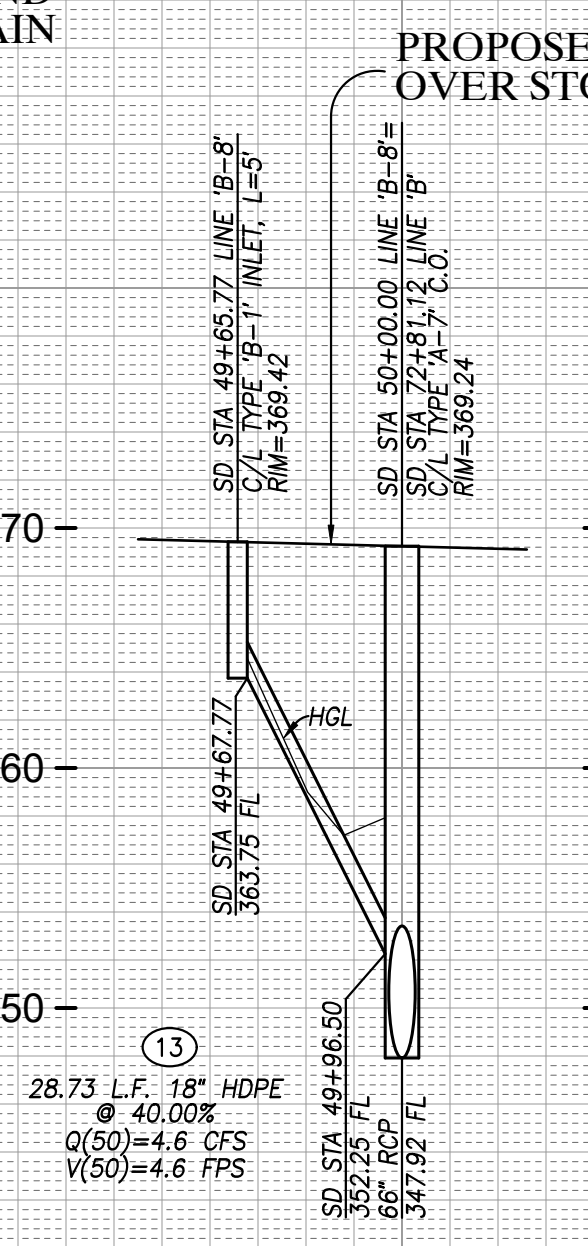
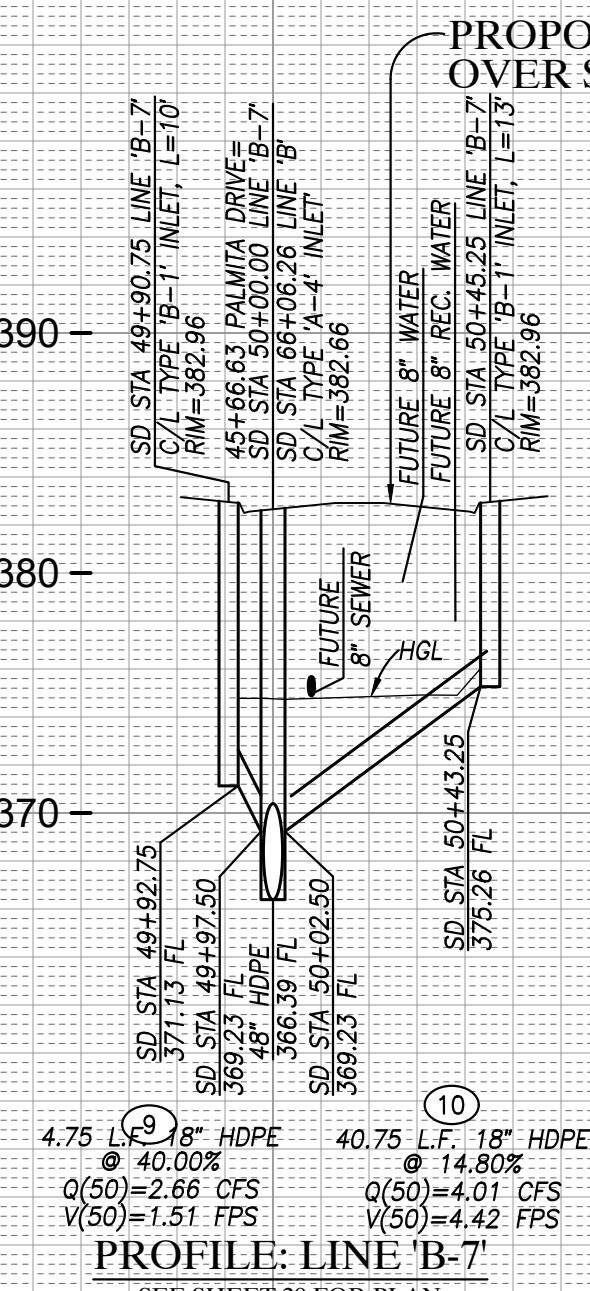
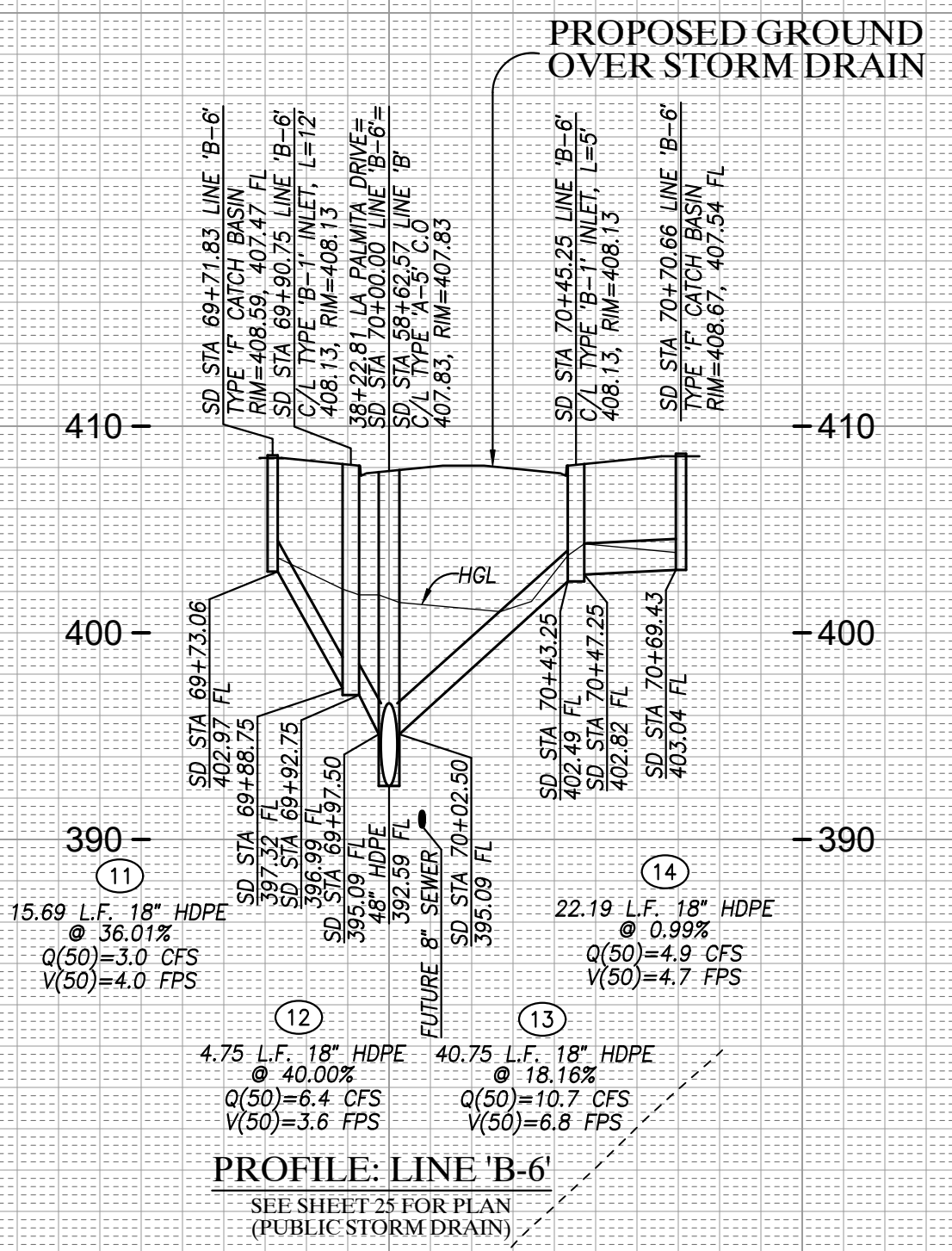
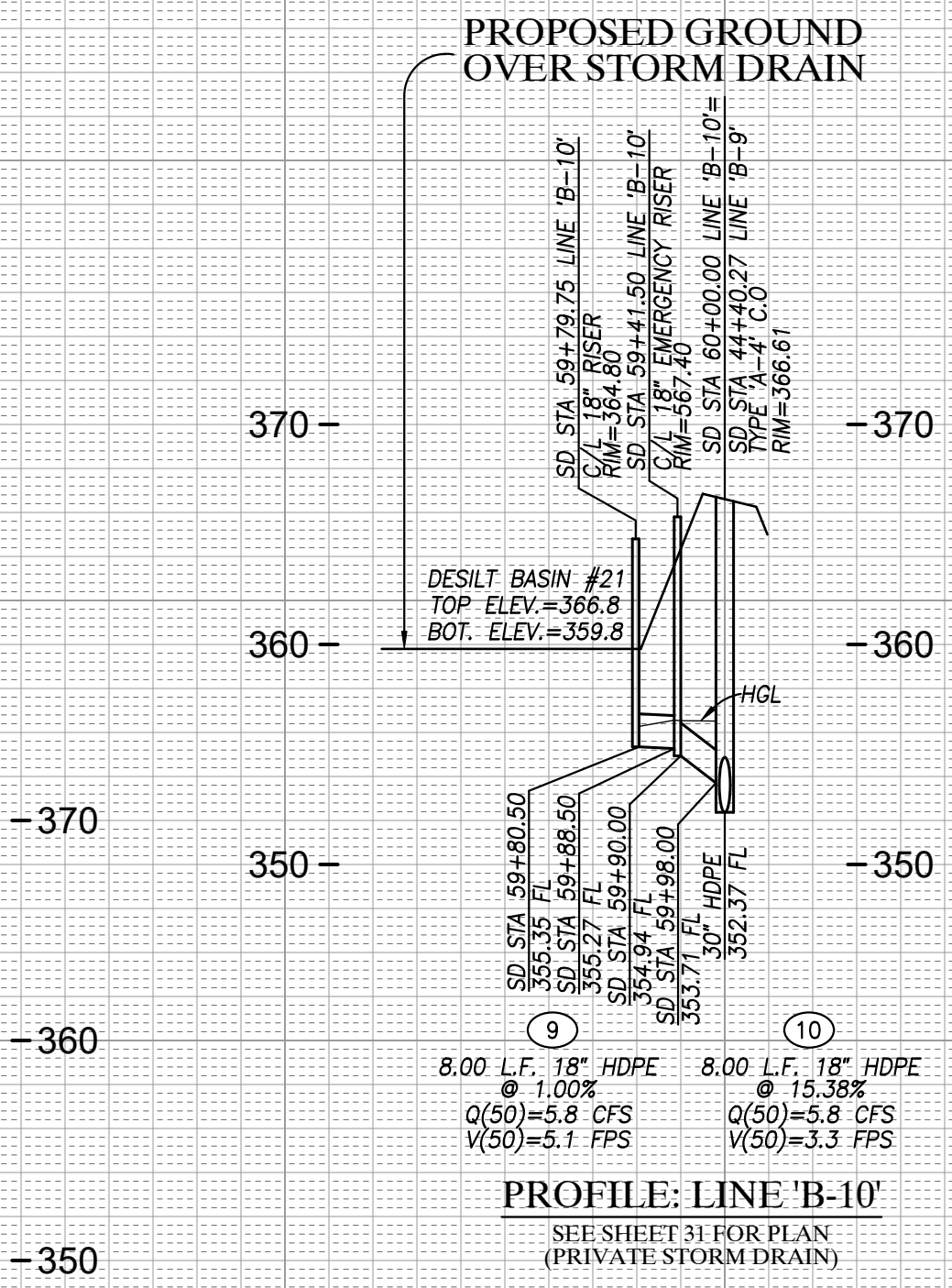
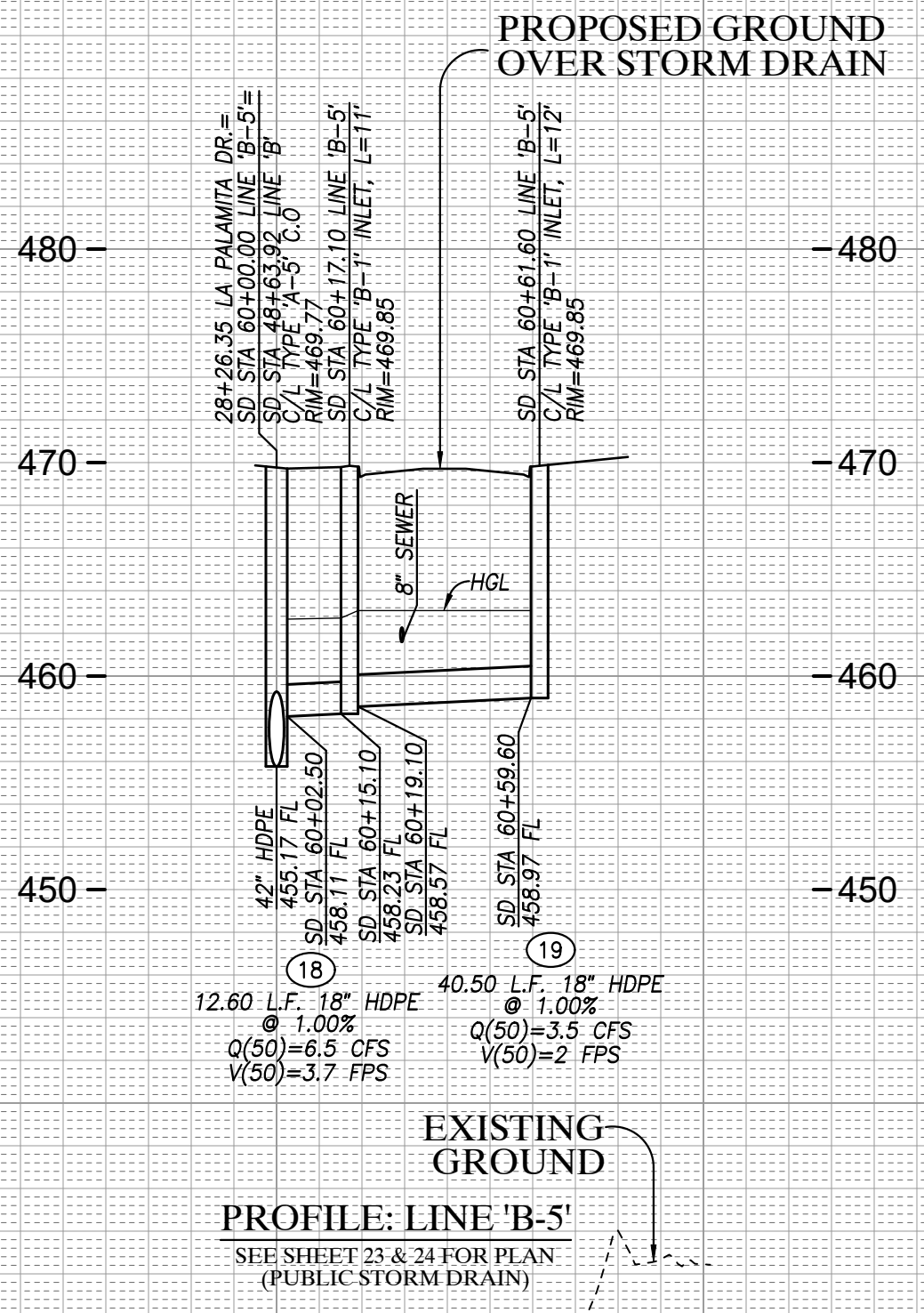
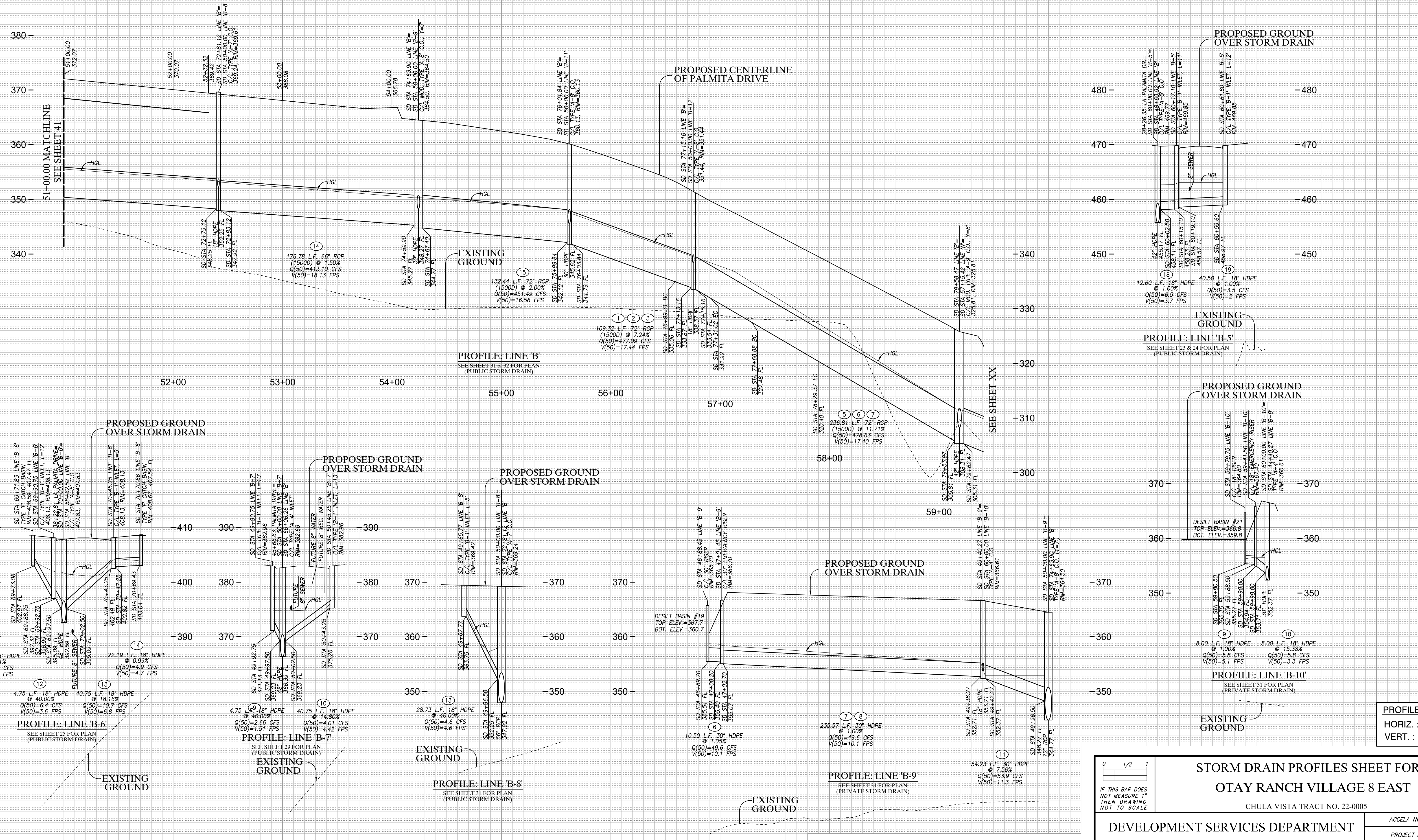
DEVELOPMENT SERVICES DEPARTMENT		ACCELA NO.: XXXX
Approved: _____		PROJECT NO.: XXXX
By: _____ Principal Civil Engineer		TOTAL SHEETS: 90
Submitted: _____		1796 - 6340
By: _____		NAD83 COORDINATES
Planning: _____		154 - 1773
Landscape: _____		LAMBERT COORDINATES
AS BUILT		
CONTRACTOR: _____		DRAWING NO. G041
INSPECTOR: _____		XXXXX.XXX
DATE COMPLETED: _____		

AS BUILT		UTILITY NOTE	
Signature: <u>YOLANDA CALVO</u>	Date: _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
Printed Name: <u>YOLANDA CALVO</u>	P.E. No.: <u>61827</u>		
My Registration Expires: _____	Discipline: _____		

REFERENCE DRAWINGS		REVISIONS		REVISIONS		DESIGNED BY		DRAWN BY		CHECKED BY	
C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS	SR-125 PLANS-11232304	By	Date	App'd	By	Date	App'd	Designed By: A.C.G./P.A.A.	Drawn By: P.A.A.	Checked By: Y.C.
C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS							Plans Prepared Under Supervision Of: _____ Date: _____		
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS							YOLANDA CALVO R.C.E. No. 61827		
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS							THE CITY OF CHULA VISTA		



HUNSAKER & ASSOCIATES
 SAN DIEGO, INC.
 PLANNING 9707 WAPLES STREET
 ENGINEERING San Diego, Ca 92121
 SURVEYING PH4858558-4500 FX4858558-1414



PROFILE SCALES
 HORIZ. : 1"=40'
 VERT. : 1"=8'

STORM DRAIN PROFILES SHEET FOR OTAY RANCH VILLAGE 8 EAST
 CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT

Approved: _____
 By: _____ Principal Civil Engineer

Submitted: _____
 By: _____

Planning: _____ Landscape: _____

AS BUILT

CONTRACTOR: _____
 INSPECTOR: _____ DATE COMPLETED: _____

ACCELA NO.: XXXX
 PROJECT NO.: XXXX
 TOTAL SHEETS: 90
 1796 - 6340
 NAD83 COORDINATES
 154 - 1773
 LAMBERT COORDINATES

DRAWING NO. G042

AS BUILT

SIGNATURE: YOLANDA CALVO P.E. No. 61827
 My Registration Expires: _____ Discipline: _____

UTILITY NOTE

ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.

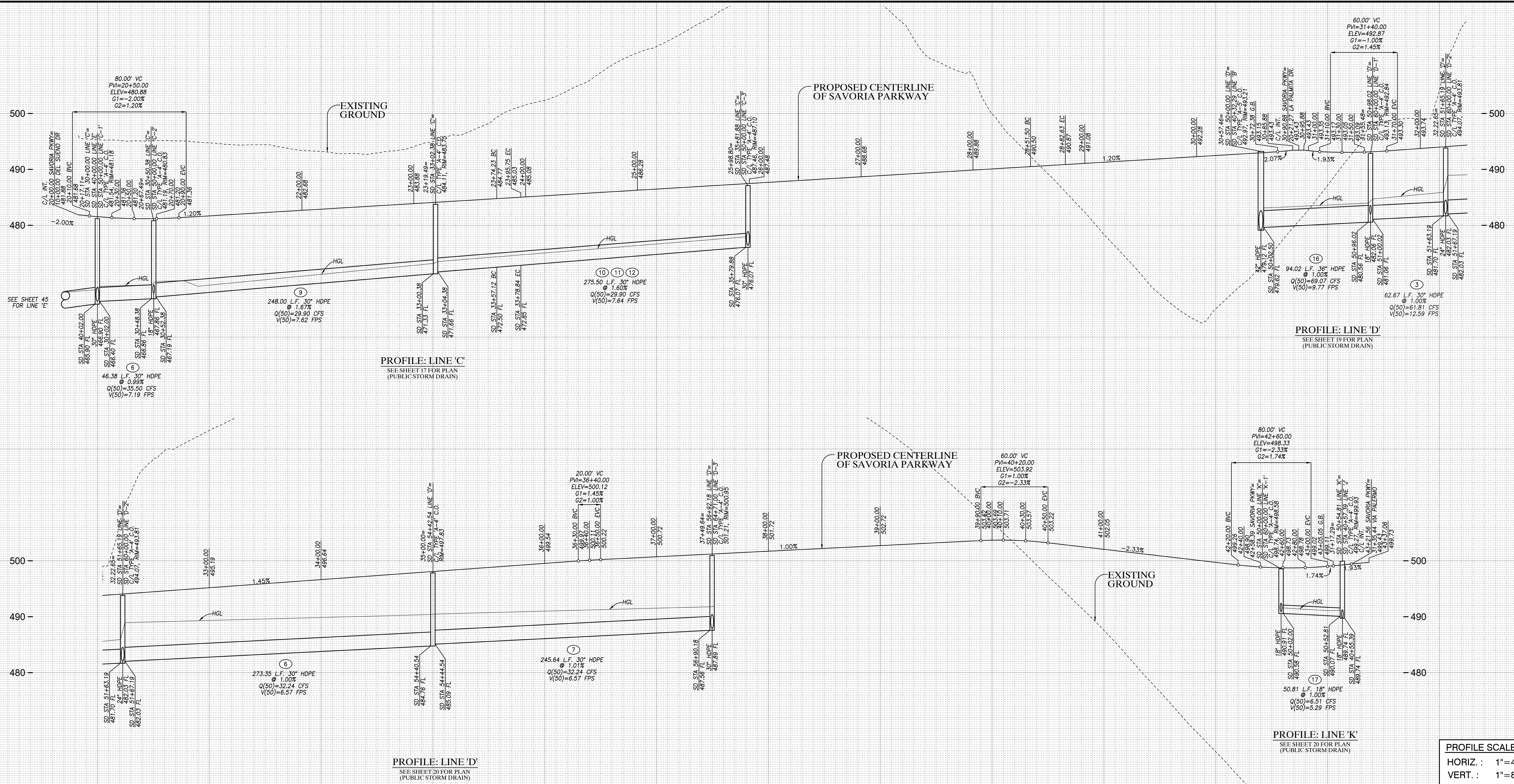
REFERENCE DRAWINGS	REVISIONS
C.V. DWG. NO. 02025-IMP. PLANS	By _____ Date _____ App'd _____
C.V. DWG. NO. 04068-GRADING PLANS	By _____ Date _____ App'd _____
C.V. DWG. NO. 04078-IMP. PLANS	By _____ Date _____ App'd _____
C.V. DWG. NO. 04080-IMP. PLANS	By _____ Date _____ App'd _____
C.V. DWG. NO. 14011-GRADING PLANS	By _____ Date _____ App'd _____
C.V. DWG. NO. 14012-IMP. PLANS	By _____ Date _____ App'd _____
C.V. DWG. NO. 18016-GRADING PLANS	By _____ Date _____ App'd _____
C.V. DWG. NO. 19036-IMP. PLANS	By _____ Date _____ App'd _____
C.V. DWG. NO. 20028-GRADING PLANS	By _____ Date _____ App'd _____
C.V. DWG. NO. 20029-GRADING PLANS	By _____ Date _____ App'd _____
C.V. DWG. NO. 22043-GRADING PLANS	By _____ Date _____ App'd _____

HUNSAKER & ASSOCIATES
 SAN DIEGO, CA

PLANNING 9707 WAPLES STREET
 ENGINEERING San Diego, CA 92121
 SURVEYING PH858558-4500 FX858558-1414

THE CITY OF CHULA VISTA

Designed By: A.C.G./P.A.A. Drawn By: P.A.A. Checked By: Y.C.
 Plans Prepared Under Supervision Of: _____ Date: _____
 YOLANDA CALVO R.C.E. No. 61827



PROFILE SCALES	
HORIZ. :	1"=40'
VERT. :	1"=8'

STORM DRAIN PROFILES SHEET FOR OTAY RANCH VILLAGE 8 EAST
CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT

ACCELA NO.: XXXX
PROJECT NO.: XXXX
TOTAL SHEETS: 90
1796 - 6340
NAD83 COORDINATES
154 - 1773
LAMBERT COORDINATES

Approved: _____
By: _____ Principal Civil Engineer

Submitted: _____
By: _____

Planning: _____ Landscape: _____

AS BUILT

CONTRACTOR: _____ DRAWING NO. G043
INSPECTOR: _____ DATE COMPLETED: _____

HUNSAKER & ASSOCIATES
SAN DIEGO, CA

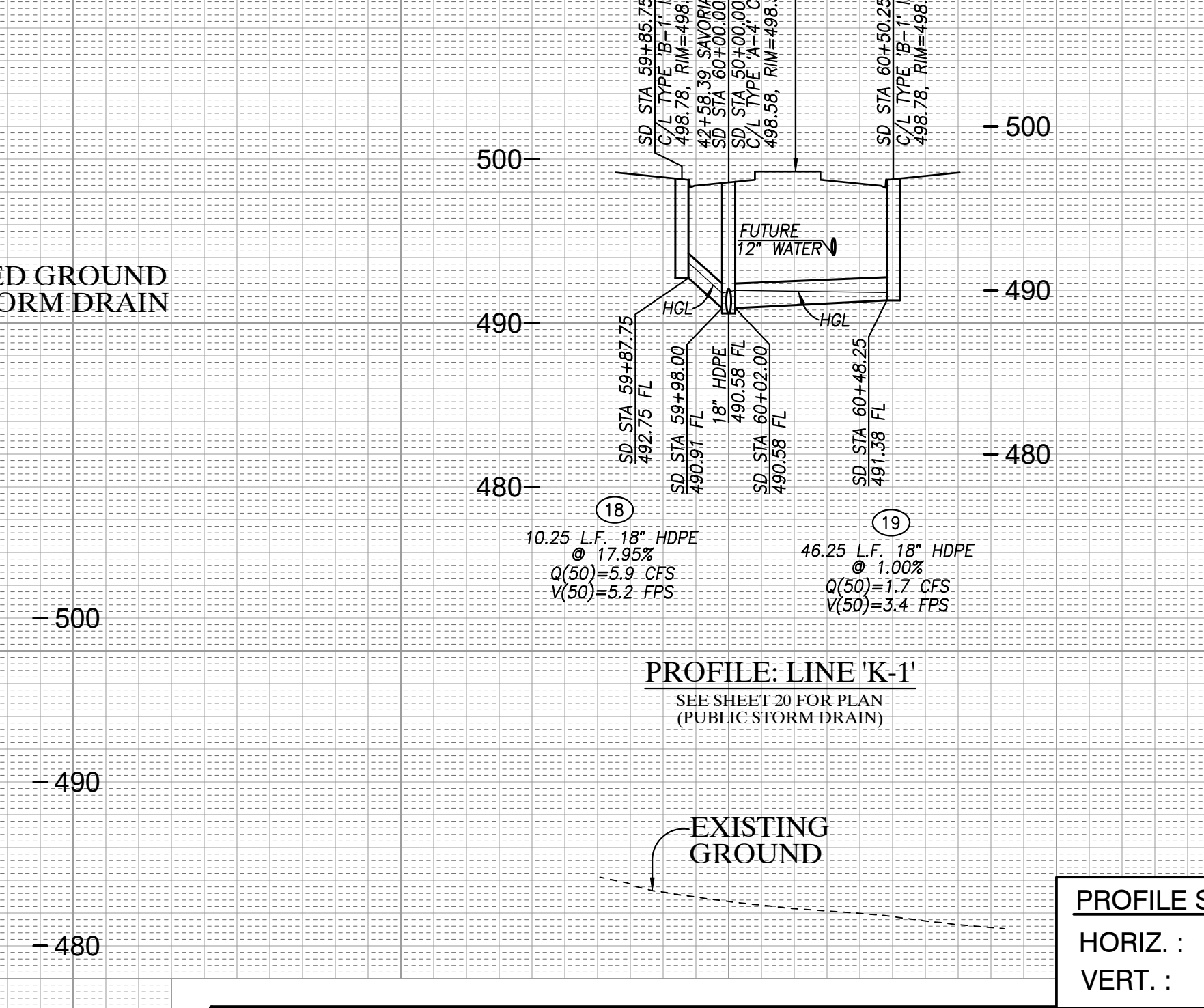
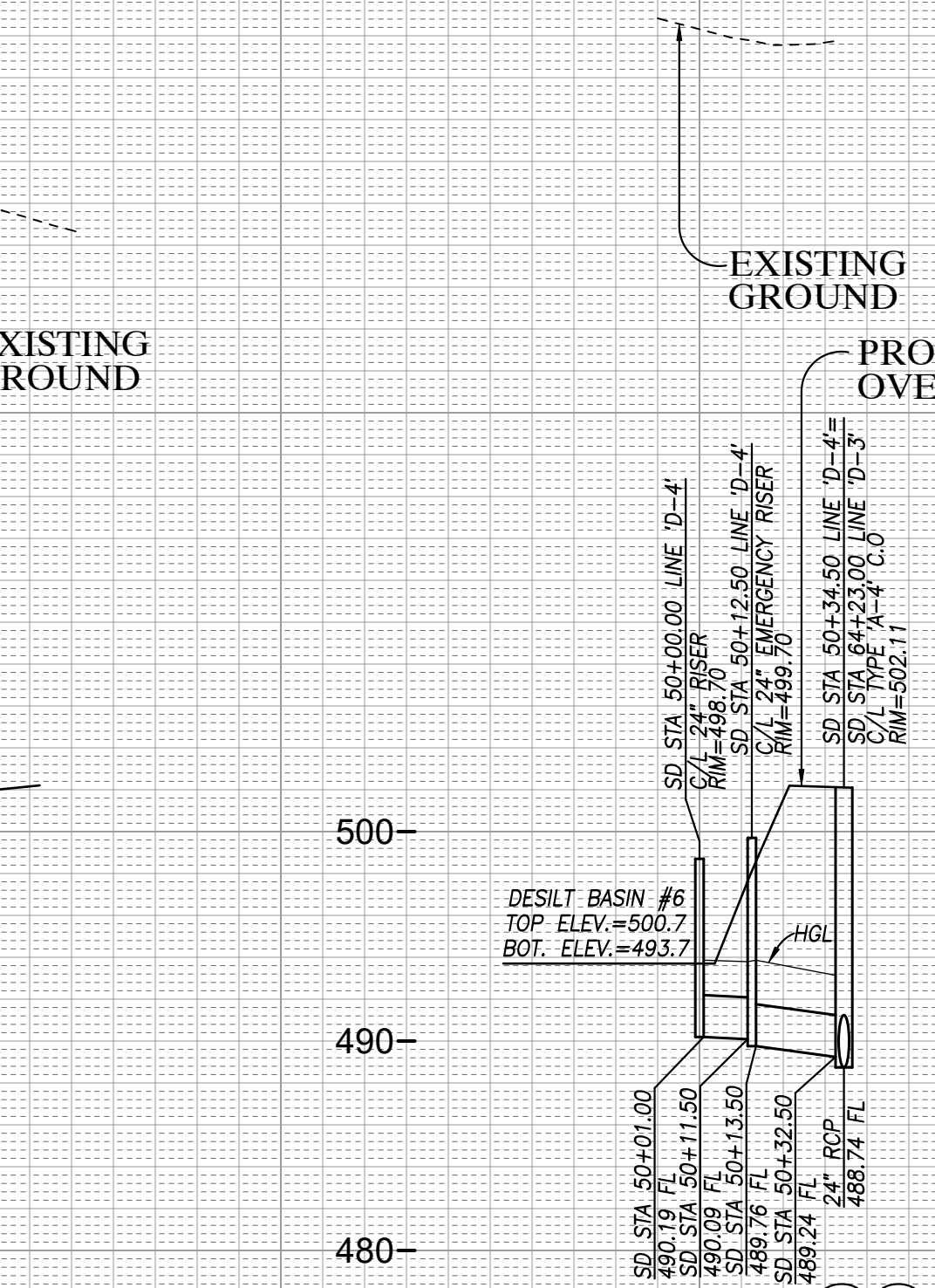
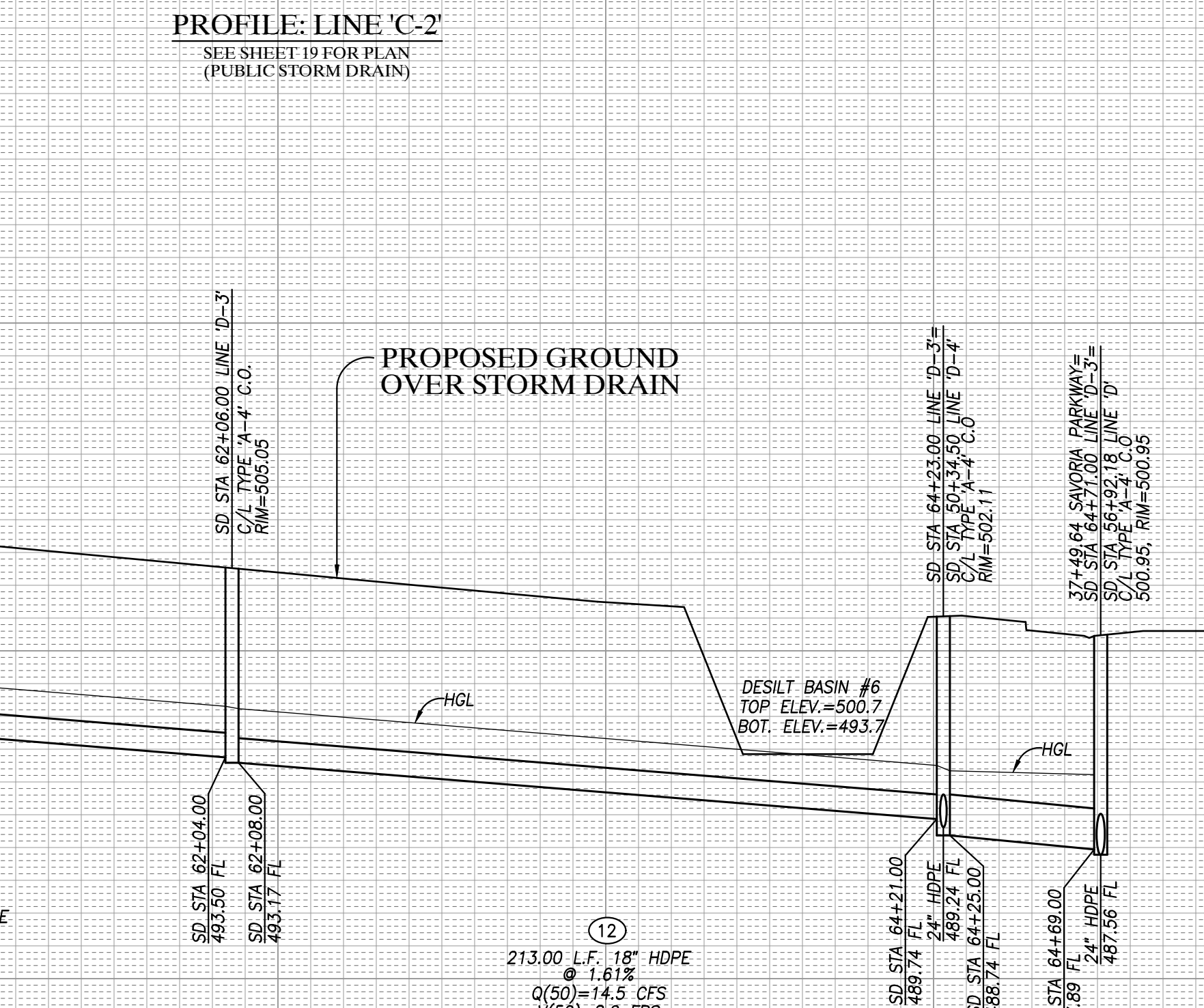
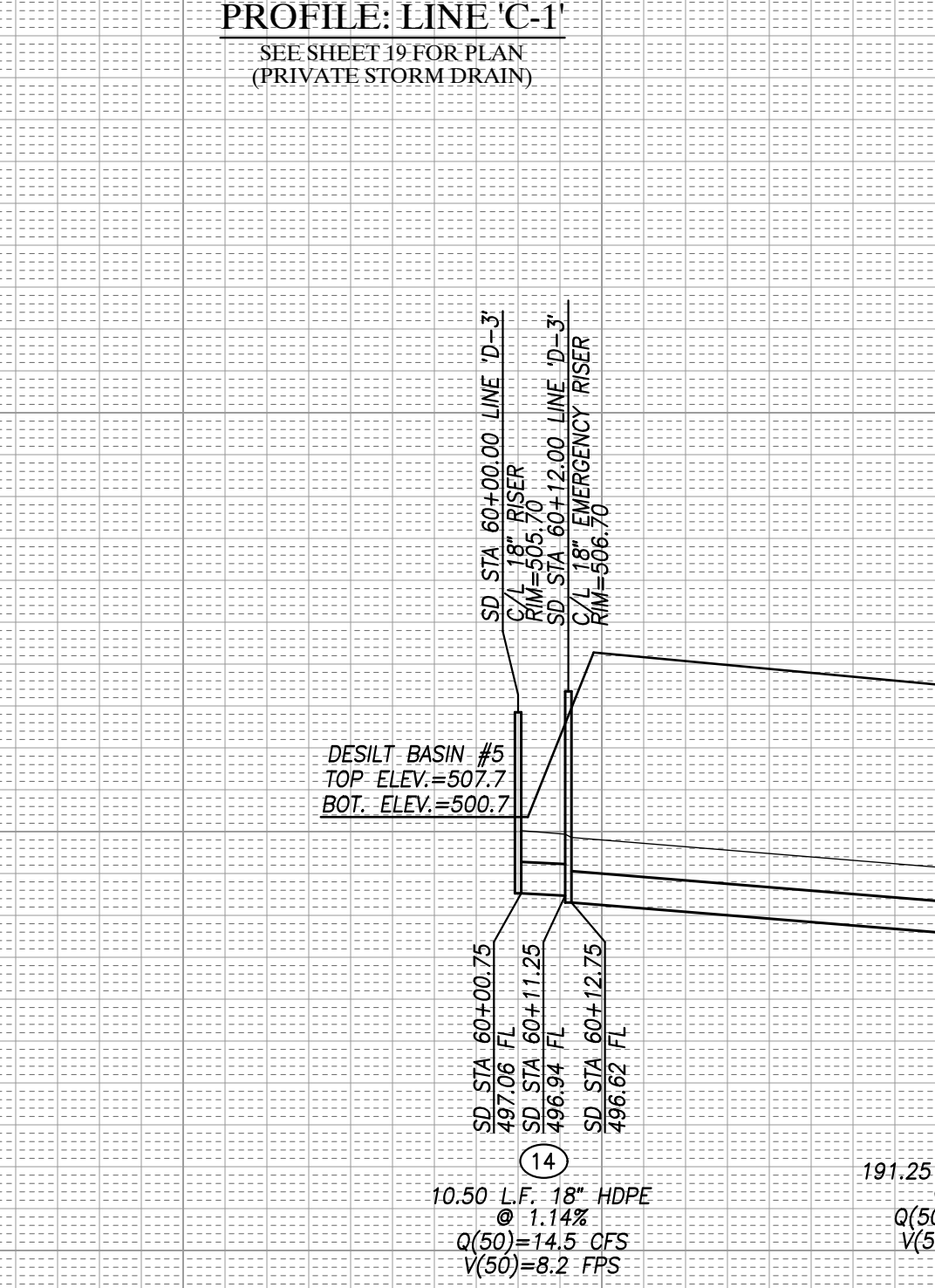
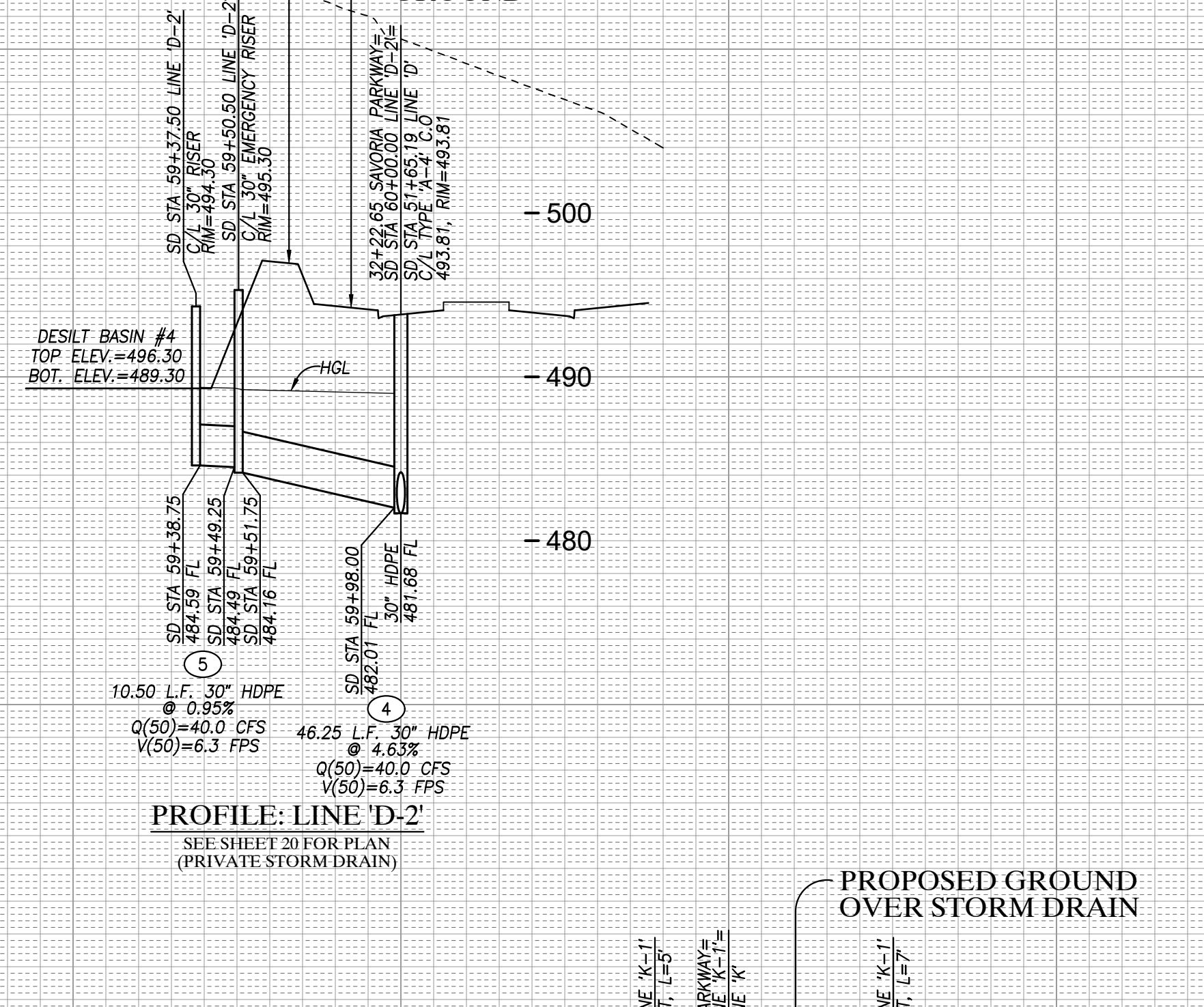
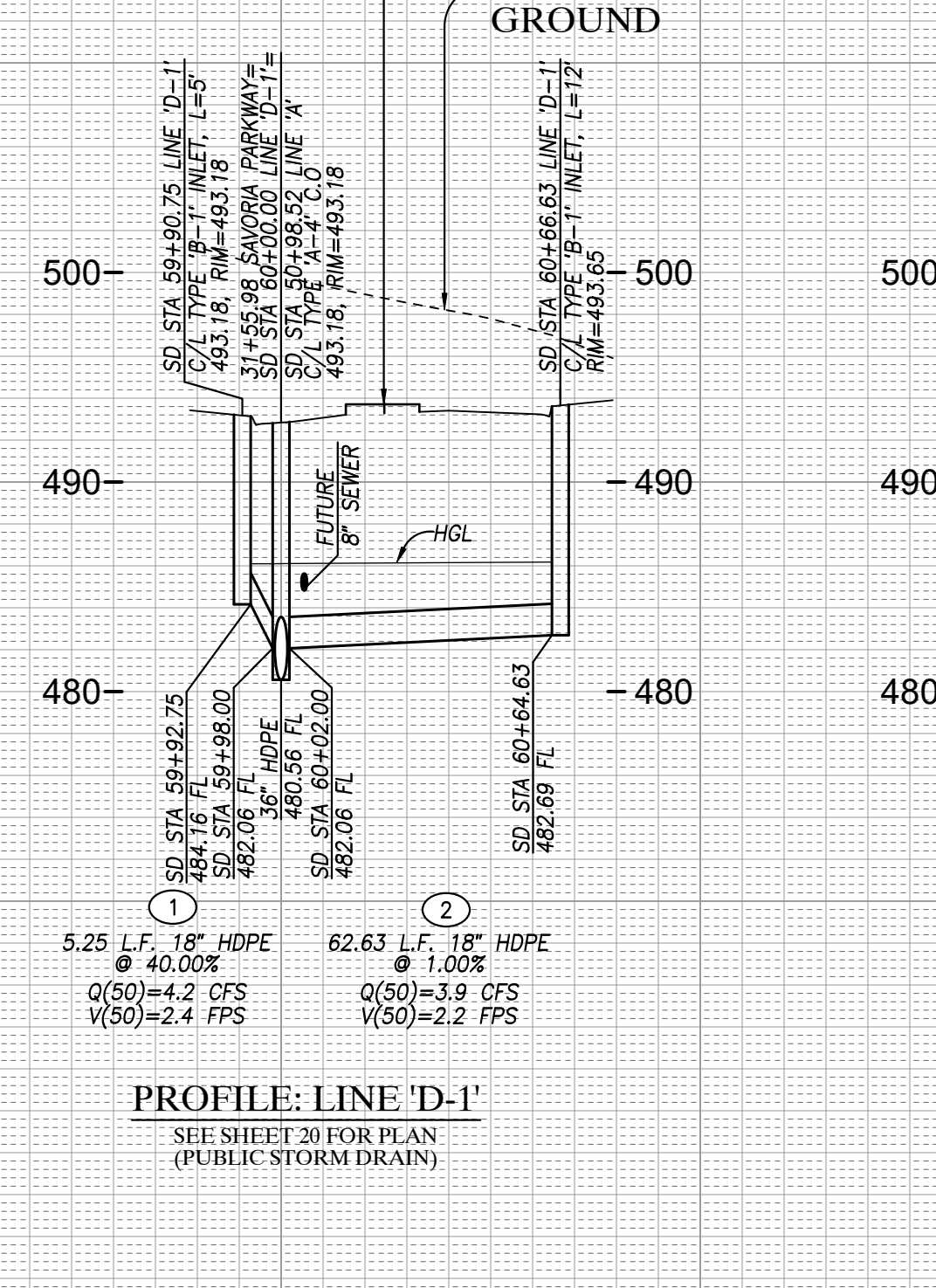
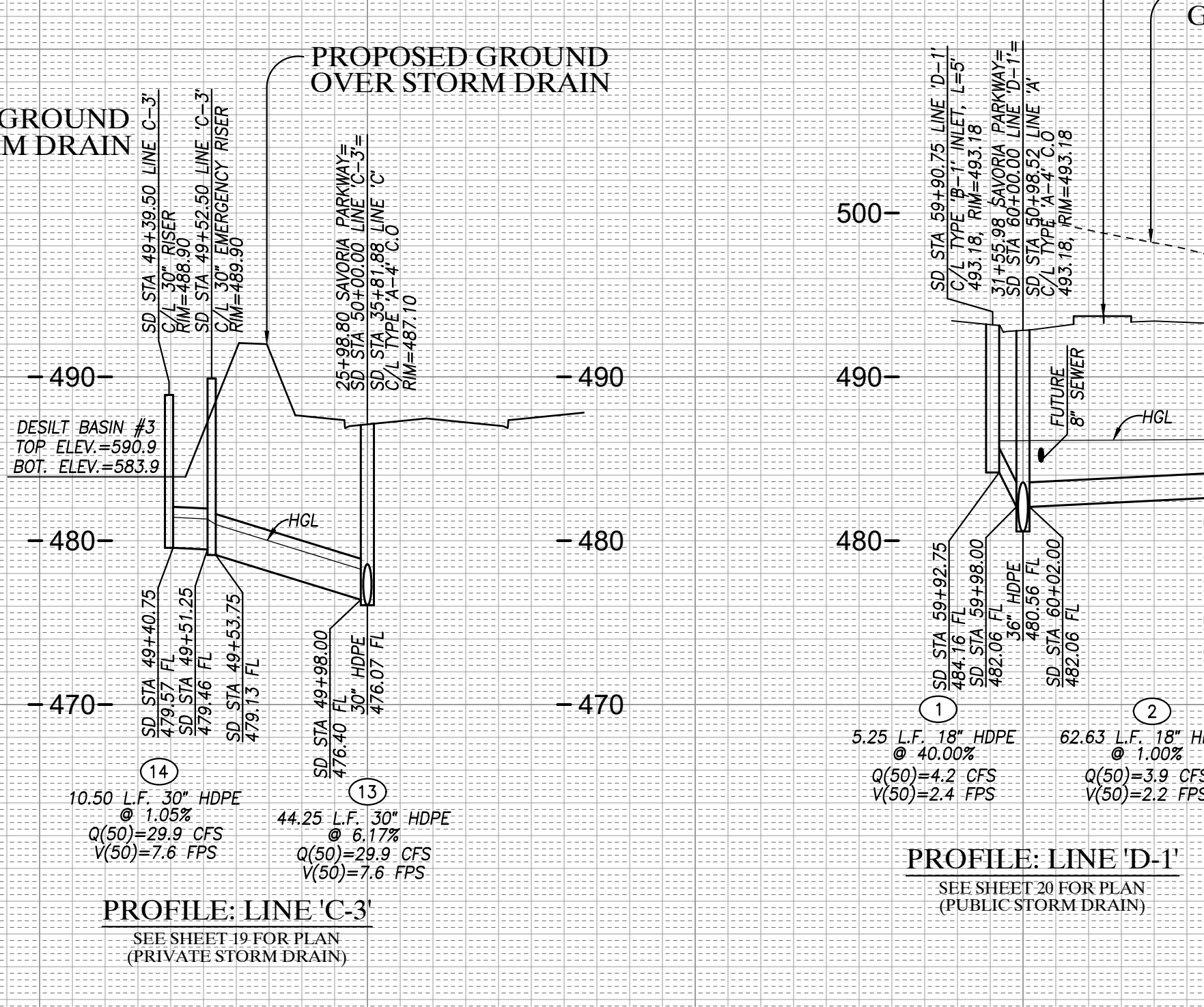
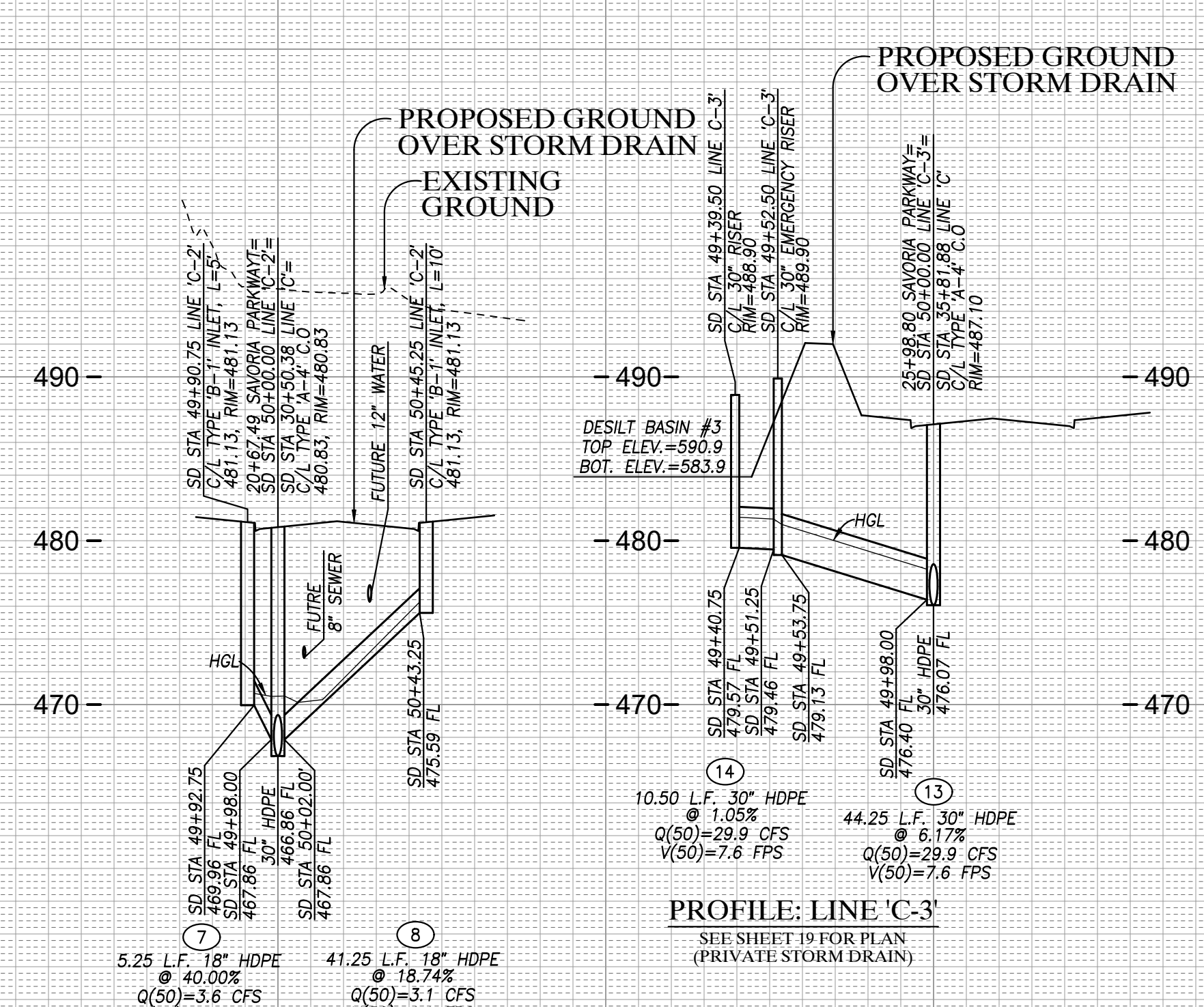
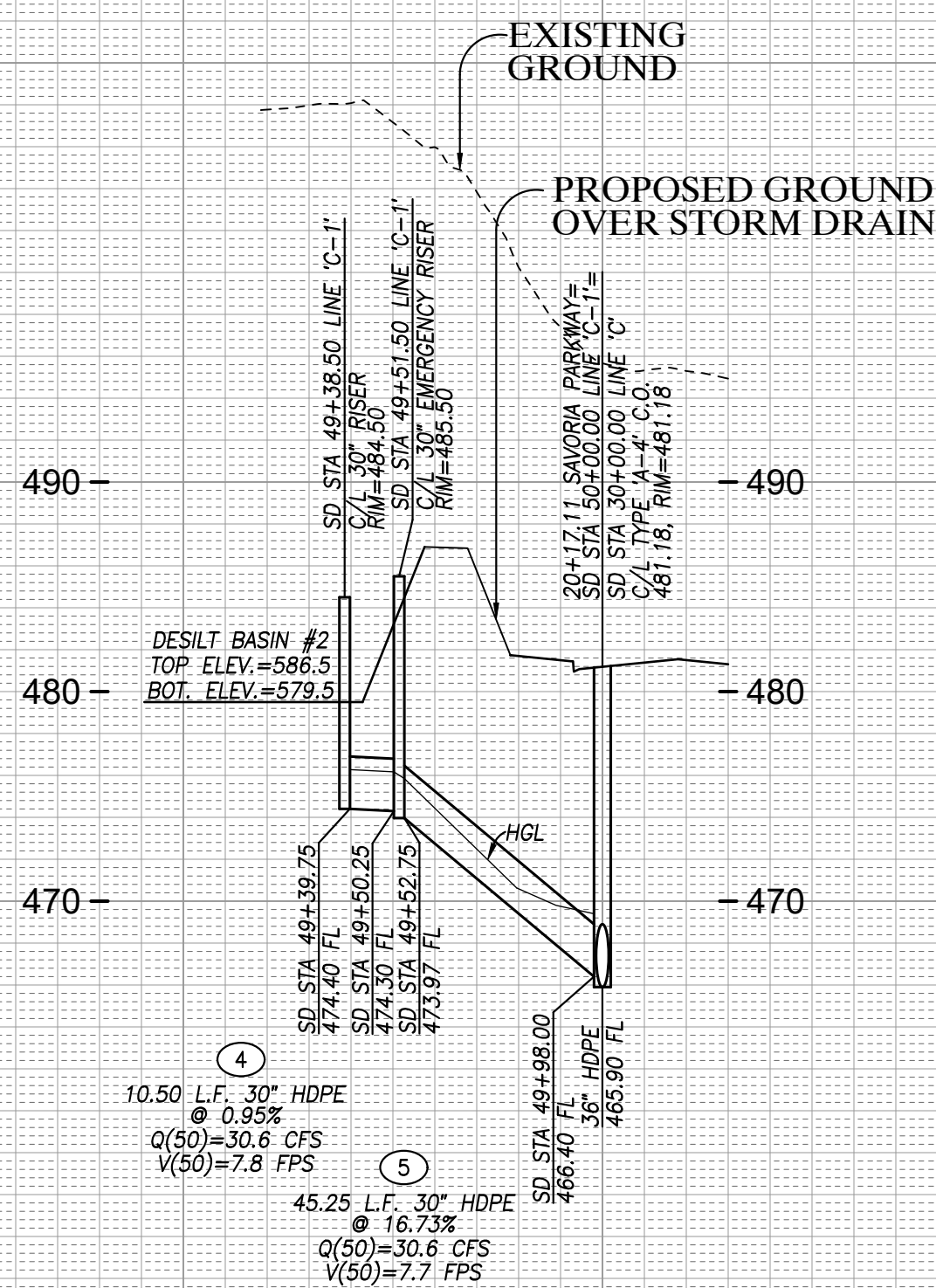
PLANNING 9707 WAPLES STREET
ENGINEERING San Diego, CA 92121
SURVEYING PH8585558-4500 FX8585558-1414



THE CITY OF CHULA VISTA

Designed By: A.C.G./P.A.A. Drawn By: P.A.A. Checked By: Y.C.
Plans Prepared Under Supervision Of: _____ Date: _____
YOLANDA CALVO R.C.E. No. 61827

AS BUILT		UTILITY NOTE	
Signature: YOLANDA CALVO	Date: _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
My Registration Expires: _____	Discipline: _____		
REFERENCE DRAWINGS		REVISIONS	
C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS	SR-125 PLANS-11232304	
C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS	
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS	
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS	



STORM DRAIN PROFILES SHEET FOR OTAY RANCH VILLAGE 8 EAST
CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT

APPROVED: _____
By: _____ Principal Civil Engineer

SUBMITTED: _____
By: _____

PLANNING: _____ LANDSCAPE: _____

AS BUILT

ACCELA NO.: XXXX
PROJECT NO.: XXXX
TOTAL SHEETS: 90
1796 - 6340
NAD83 COORDINATES
154 - 1773
LAMBERT COORDINATES

CONTRACTOR: _____
INSPECTOR: _____ DATE COMPLETED: _____

DRAWING NO. G044

AS BUILT	UTILITY NOTE
SIGNATURE _____ YOLANDA CALVO My Registration Expires _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.

REVISIONS	By	Date	App'd	REVISIONS	By	Date	App'd
C.V. DWG. NO. 02025-IMP. PLANS				C.V. DWG. NO. 14011-GRADING PLANS			
C.V. DWG. NO. 04068-GRADING PLANS				C.V. DWG. NO. 14012-IMP. PLANS			
C.V. DWG. NO. 04078-IMP. PLANS				C.V. DWG. NO. 20028-GRADING PLANS			
C.V. DWG. NO. 04080-IMP. PLANS				C.V. DWG. NO. 18016-GRADING PLANS			
				C.V. DWG. NO. 20029-GRADING PLANS			
				C.V. DWG. NO. 19036-IMP. PLANS			
				C.V. DWG. NO. 22043-GRADING PLANS			

REGISTERED PROFESSIONAL ENGINEER
YOLANDA CALVO
No. 61827
STATE OF CALIFORNIA

HUNSAKER & ASSOCIATES
SAN DIEGO, INC.

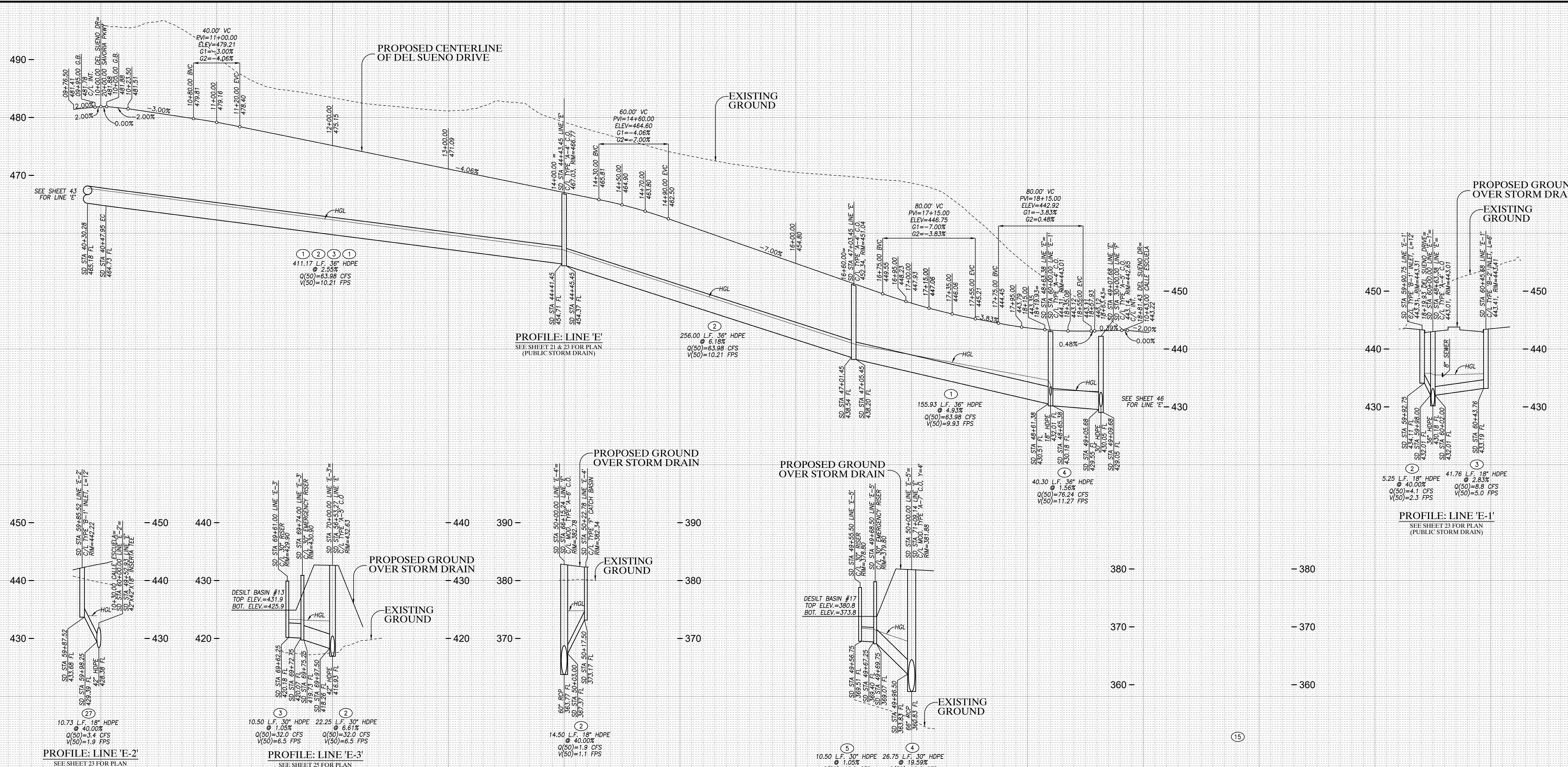
PLANNING 9707 WAPLES STREET
ENGINEERING San Diego, Ca 92121
SURVEYING PH4858558-4500-FX858558-1414

DESIGNED BY: A.C.G./P.A.A.
DRAWN BY: P.A.A.
CHECKED BY: Y.C.

PLANS PREPARED UNDER SUPERVISION OF: _____ DATE: _____

YOLANDA CALVO R.C.E. No. 61827

THE CITY OF CHULA VISTA



ROUGH GRADING PLANS FOR OTAY RANCH VILLAGE 8 EAST

PROFILE SCALES
HORIZ. : 1"=40'
VERT. : 1"=8'

STORM DRAIN PROFILES SHEET FOR OTAY RANCH VILLAGE 8 EAST
CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT

ACCELA NO.: XXXX
PROJECT NO.: XXXX
TOTAL SHEETS: 90
1796 - 6340
NAD83 COORDINATES
154 - 1773
LAMBERT COORDINATES

Approved: _____
By: _____ Principal Civil Engineer

Submitted: _____
By: _____

Planning: _____ Landscape: _____

AS BUILT

DRAWING NO.	G045
CONTRACTOR:	XXXXX.XXX
INSPECTOR:	DATE COMPLETED: _____

HUNSAKER & ASSOCIATES
SAN DIEGO, CALIFORNIA

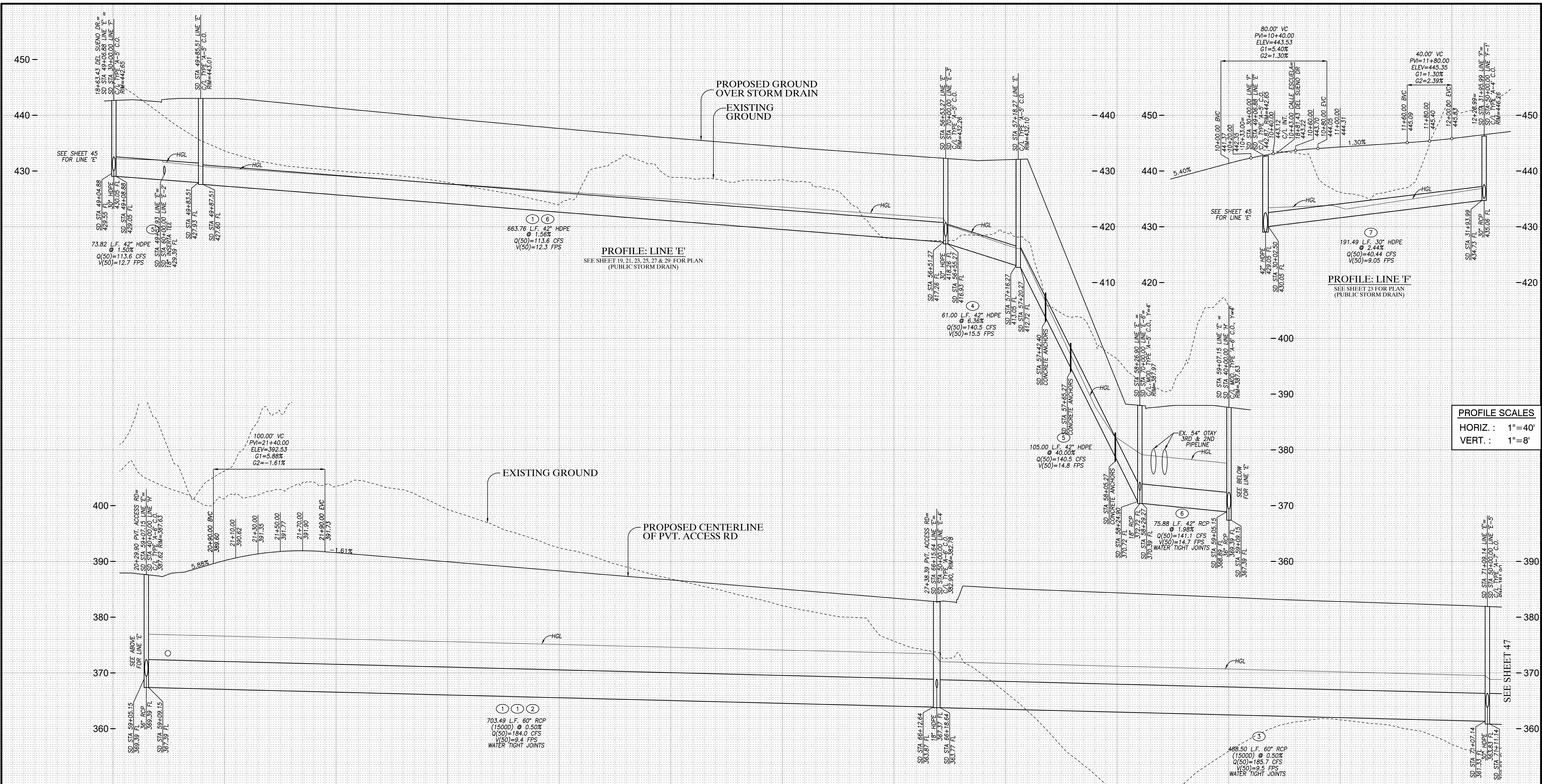
PLANNING 9707 WAPLES STREET
ENGINEERING San Diego, Ca 92121
SURVEYING PH4585558-4500 FX8585558-1414

REGISTERED PROFESSIONAL ENGINEER
CALIFORNIA
No. 61827
CIVIL

THE CITY OF CHULA VISTA

Designed By: A.C.G./P.A.A. Drawn By: P.A.A. Checked By: Y.C.
Plans Prepared Under Supervision Of: _____ Date: _____
YOYANDA CALVO R.C.E. No. 61827

AS BUILT	UTILITY NOTE
Signature: YOYANDA CALVO P.E. No. 61827 My Registration Expires: _____ Discipline: _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.
REFERENCE DRAWINGS	REVISIONS
C.V. DWG. NO. 02025-IMP. PLANS C.V. DWG. NO. 04068-GRADING PLANS C.V. DWG. NO. 04078-IMP. PLANS C.V. DWG. NO. 04080-IMP. PLANS	By Date App'd C.V. DWG. NO. 14011-GRADING PLANS SR-125 PLANS-11232304 C.V. DWG. NO. 14012-IMP. PLANS C.V. DWG. NO. 20028-GRADING PLANS C.V. DWG. NO. 18016-GRADING PLANS C.V. DWG. NO. 20029-GRADING PLANS C.V. DWG. NO. 19036-IMP. PLANS C.V. DWG. NO. 22043-GRADING PLANS



PROFILE SCALES
 HORIZ. : 1"=40'
 VERT. : 1"=8'

ROUGH GRADING PLANS FOR
 OTAY RANCH VILLAGE 8 EAST

**STORM DRAIN PROFILES SHEET FOR
 OTAY RANCH VILLAGE 8 EAST**

CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT

ACCELA NO.: XXXX
 PROJECT NO.: XXXX
 TOTAL SHEETS: 90
 1796 - 6340
 NAD83 COORDINATES
 154 - 1773
 LAMBERT COORDINATES

Approved: _____
 By: _____
 Submitted: _____
 Planning: _____ Landscape: _____

AS BUILT

CONTRACTOR: _____
 INSPECTOR: _____ DATE COMPLETED: _____

DRAWING NO. **G046**

HUNSAKER & ASSOCIATES
 SAN DIEGO, INC.

PLANNING 9707 WAPLES STREET
 ENGINEERING San Diego, CA 92121
 SURVEYING PH858558-4500 FX858558-1414



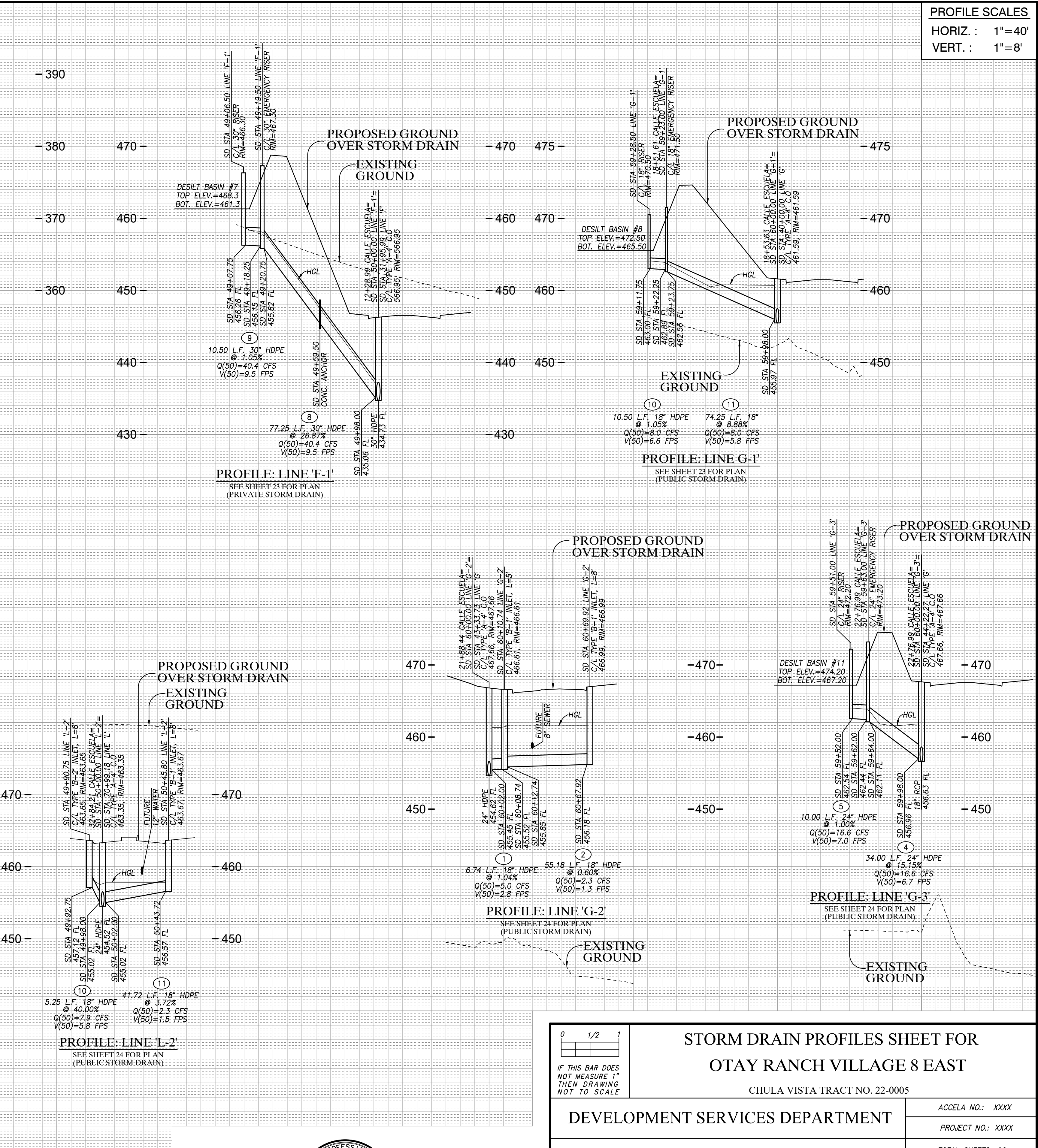
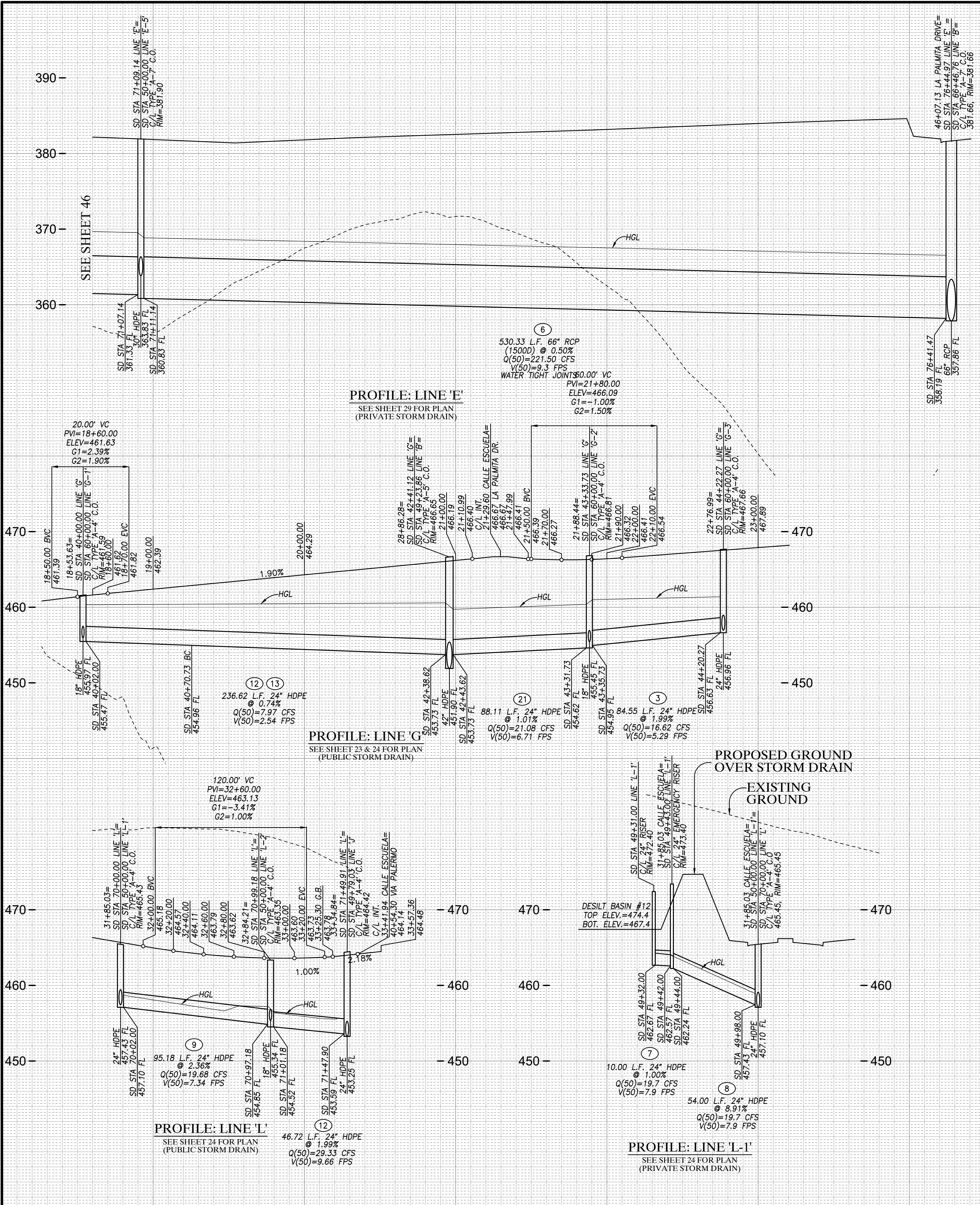
THE CITY OF CHULA VISTA

Designed By: A.C.G./P.A.A. Drawn By: P.A.A. Checked By: Y.C.
 Plans Prepared Under Supervision Of: _____ Date: _____
 YOLANDA CALVO R.C.E. No. 61827

AS BUILT		UTILITY NOTE	
SIGNATURE YOLANDA CALVO	Date P.E. No. 61827	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
REFERENCE DRAWINGS			
C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS	SR-125 PLANS-11232304	
C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS	
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS	
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS	

REVISIONS	By	Date	App'd	REVISIONS	By	Date	App'd

PROFILE SCALES
 HORIZ. : 1"=40'
 VERT. : 1"=8'



ROUGH GRADING PLANS FOR OTAY RANCH VILLAGE 8 EAST

AS BUILT		UTILITY NOTE	
SIGNATURE YOLANDA CALVO	Date P.E. No. 61827	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
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C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS	
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS	

REVISIONS			REVISIONS		
By	Date	App'd	By	Date	App'd
Designed By:	Drawn By:	Checked By:			
A.C.G./P.A.A.	P.A.A.	Y.C.			
Plans Prepared Under Supervision Of:		Date:			
YOLANDA CALVO		R.C.E. No. 61827			

REGISTERED PROFESSIONAL ENGINEER
 YOLANDA CALVO
 No. 61827
 CIVIL
 STATE OF CALIFORNIA

HUNSAKER & ASSOCIATES
 SAN DIEGO, INC.
 PLANNING 9707 WAPLES STREET
 ENGINEERING San Diego, Ca 92121
 SURVEYING PH4585558-4500 FX8585558-1414

STORM DRAIN PROFILES SHEET FOR OTAY RANCH VILLAGE 8 EAST
 CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT

Approved: _____
 By: _____ Principal Civil Engineer

Submitted: _____
 By: _____

Planning: _____ Landscape: _____

AS BUILT

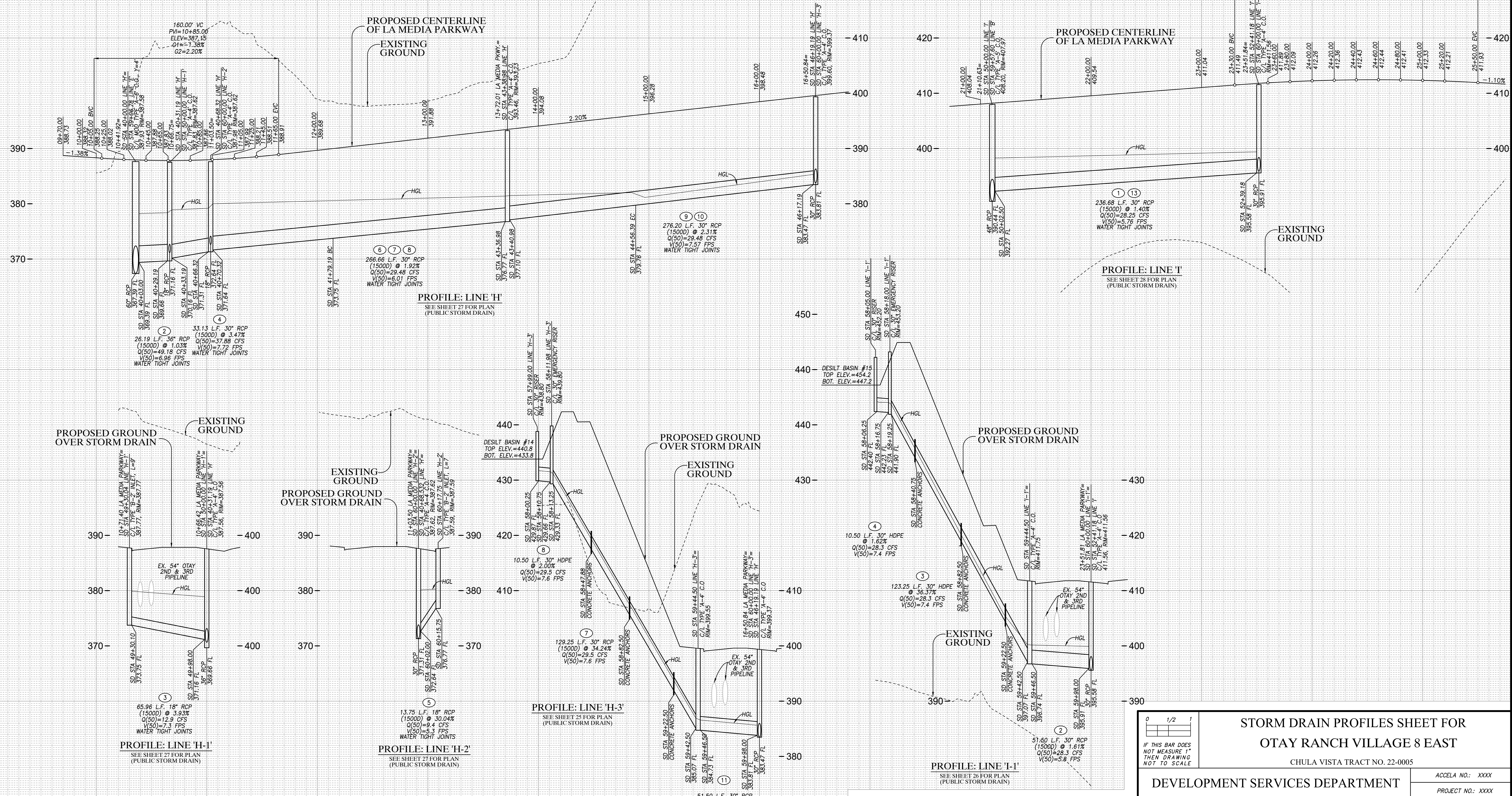
CONTRACTOR: _____
 INSPECTOR: _____ DATE COMPLETED: _____

ACCELA NO.: XXXX
 PROJECT NO.: XXXX
 TOTAL SHEETS: 90
 1796 - 6340
 NAD83 COORDINATES
 154 - 1773
 LAMBERT COORDINATES

DRAWING NO. G047
 XXXXX.XXX

PROFILE SCALES
 HORIZ. : 1"=40'
 VERT. : 1"=8'

220.00' VC
 PVI=24+40.00
 ELEV=413.14
 G1=1.50%
 G2=-1.10%



ROUGH GRADING PLANS FOR
 OTAY RANCH VILLAGE 8 EAST

**STORM DRAIN PROFILES SHEET FOR
 OTAY RANCH VILLAGE 8 EAST**

CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT

ACCELA NO.: XXXX
 PROJECT NO.: XXXX
 TOTAL SHEETS: 90
 1796 - 6340
 NAD83 COORDINATES
 154 - 1773
 LAMBERT COORDINATES

Approved: _____
 By: _____ Principal Civil Engineer

Submitted: _____
 By: _____

Planning: _____ Landscape: _____

AS BUILT

CONTRACTOR: _____ DRAWING NO. G048
 INSPECTOR: _____ DATE COMPLETED: _____

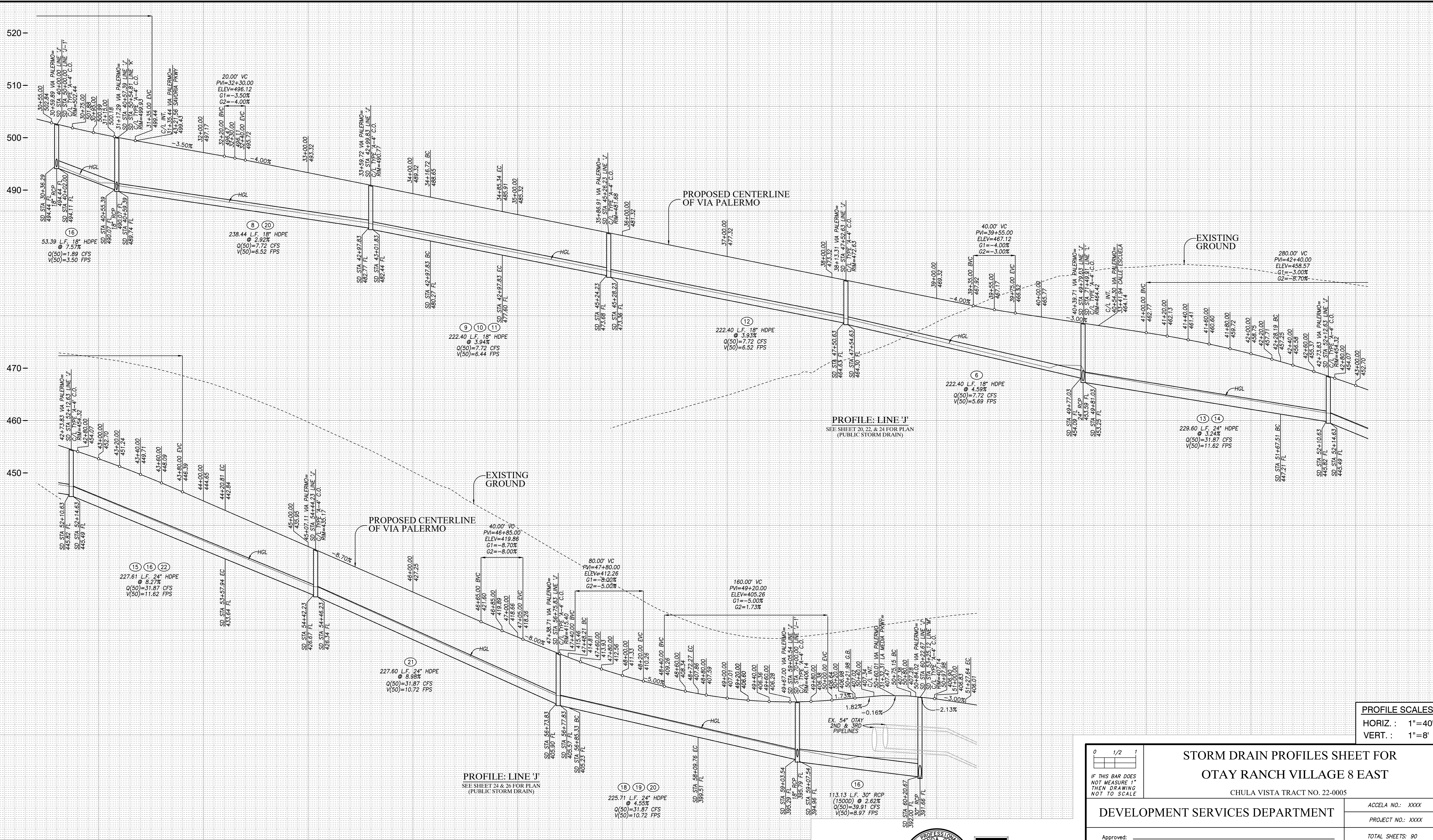
DESIGNED BY: A.C.G./P.A.A. DRAWN BY: P.A.A. CHECKED BY: Y.C.
 PLANS PREPARED UNDER SUPERVISION OF: _____ DATE: _____
 YOLANDA CALVO R.C.E. No. 61827

THE CITY OF CHULA VISTA

HUNSAKER & ASSOCIATES
 SAN DIEGO, INC.
 PLANNING 9707 WAPLES STREET
 ENGINEERING San Diego, Ca 92121
 SURVEYING PH4858558-4500 FX858558-1414

AS BUILT		UTILITY NOTE	
SIGNATURE	Date	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
YOLANDA CALVO	P.E. No. 61827		
My Registration Expires	Discipline		
REFERENCE DRAWINGS			
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C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS	
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS	
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS	

REVISIONS				REVISIONS			
By	Date	App'd		By	Date	App'd	



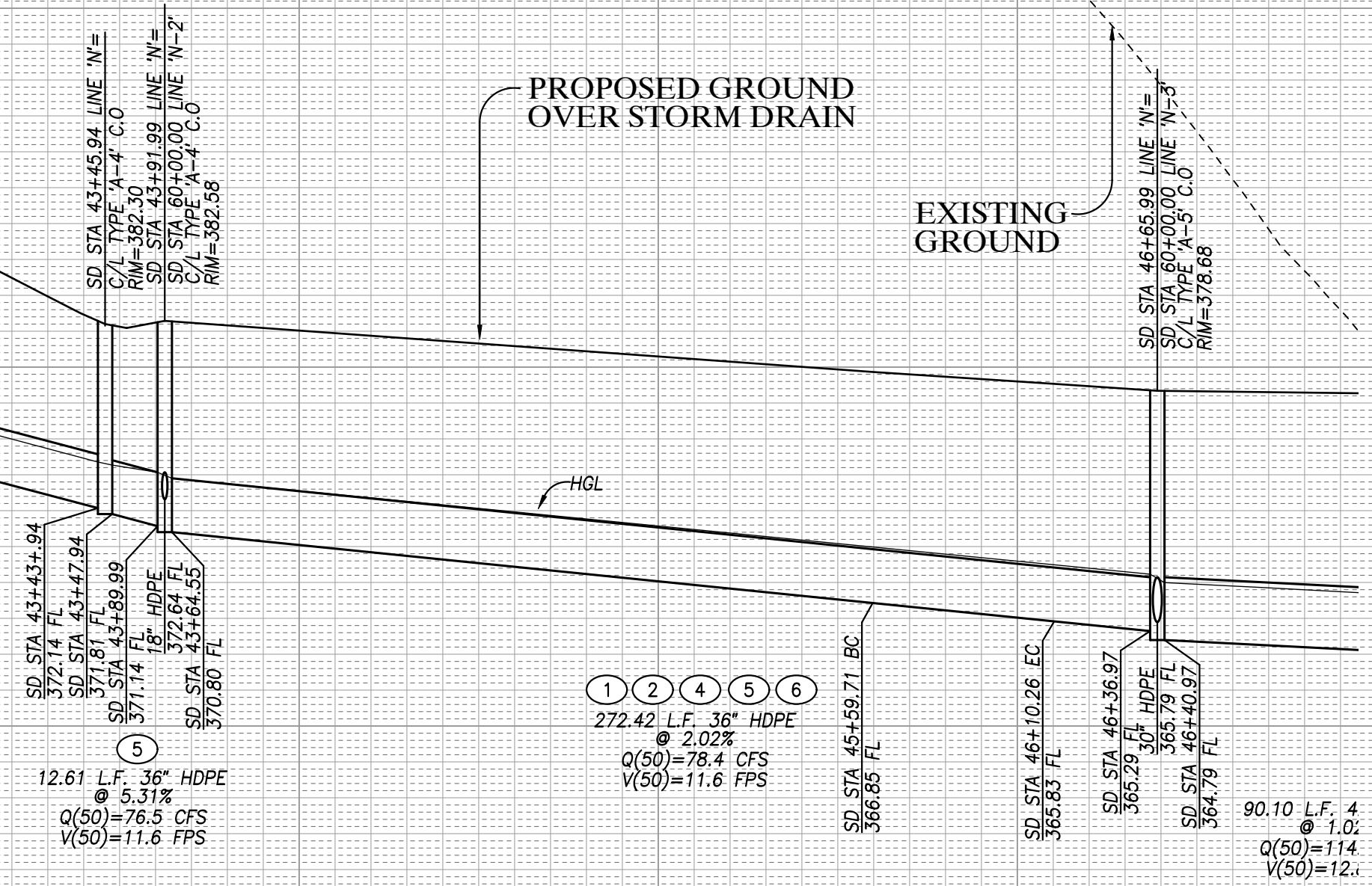
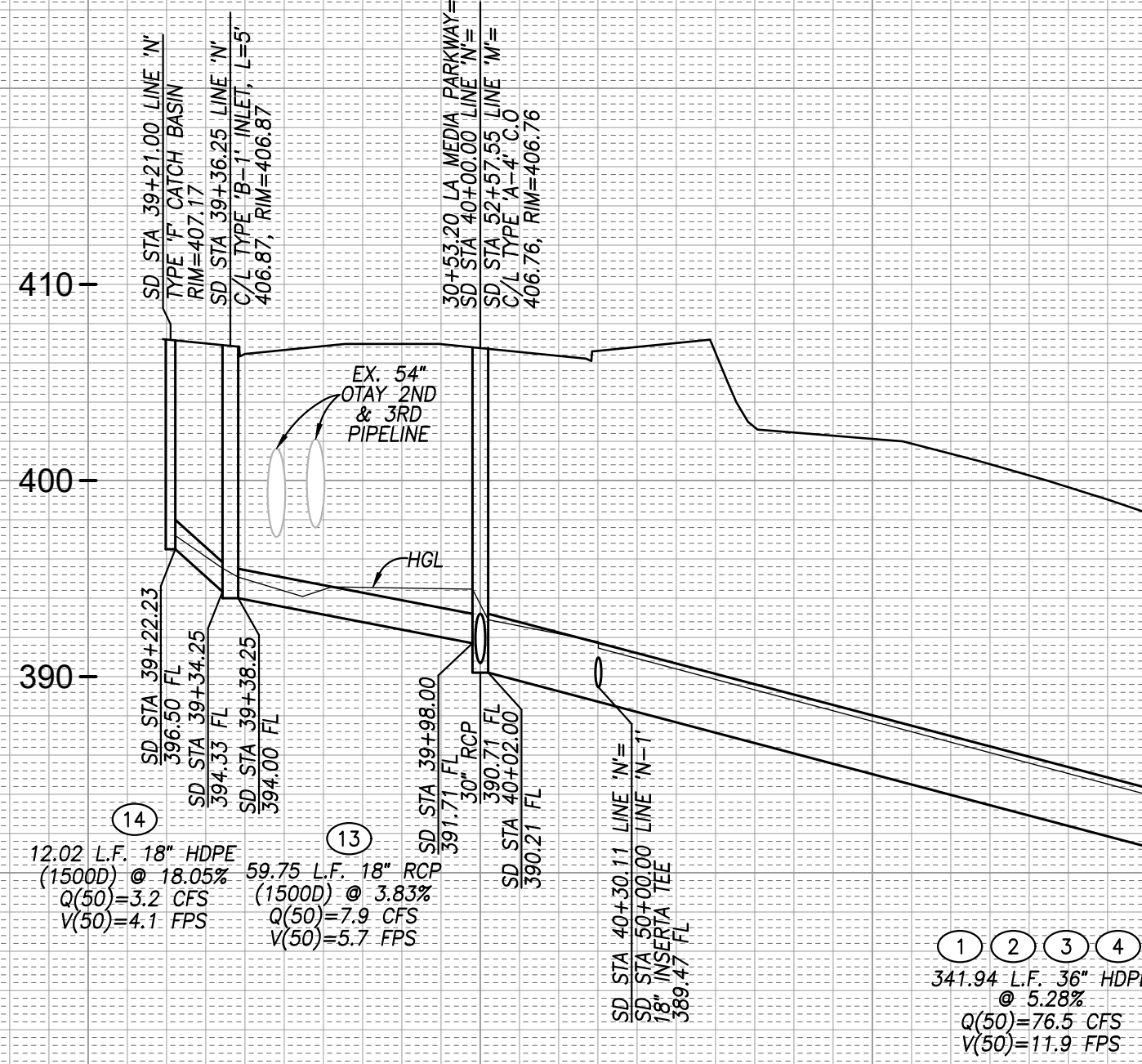
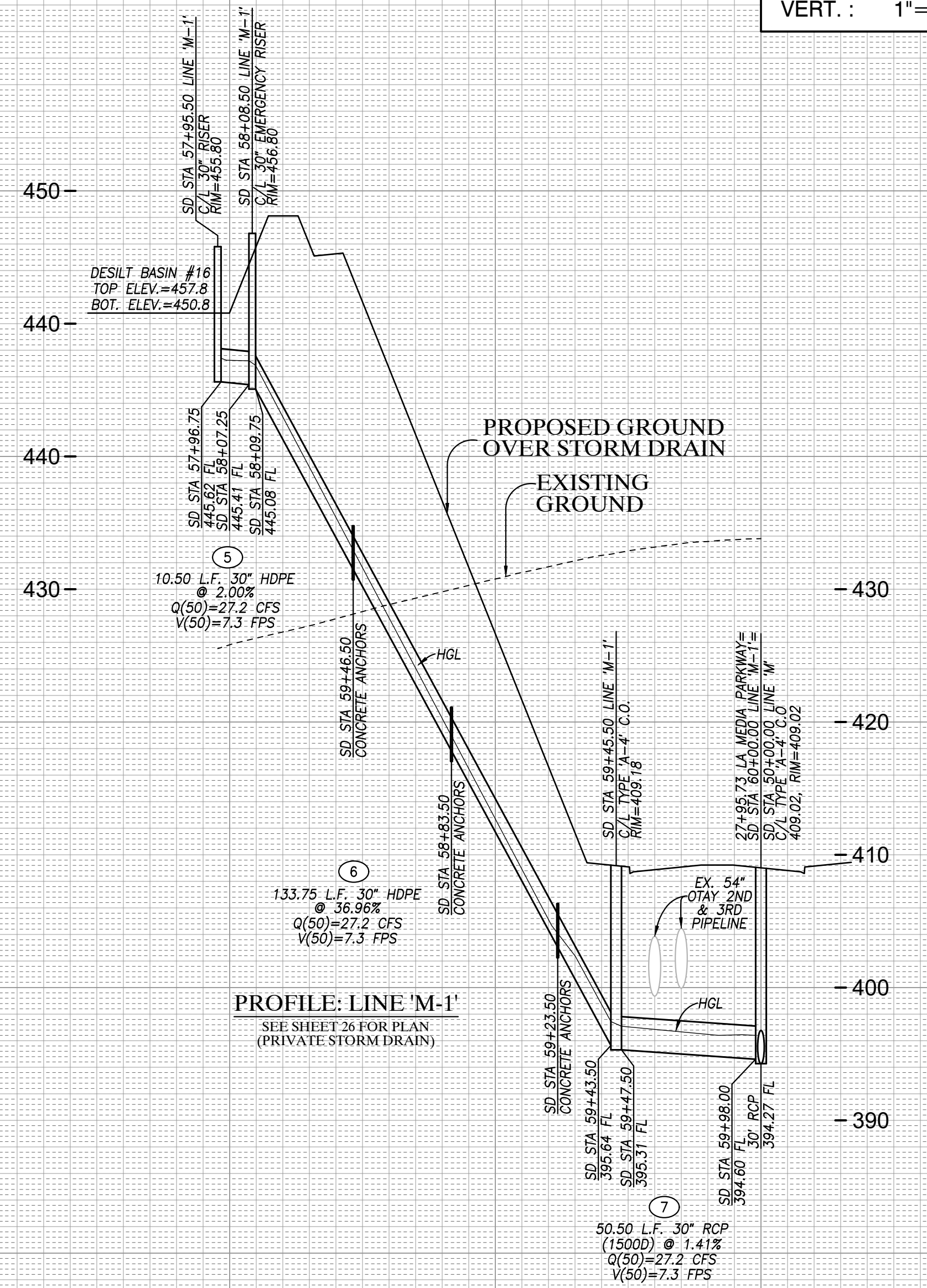
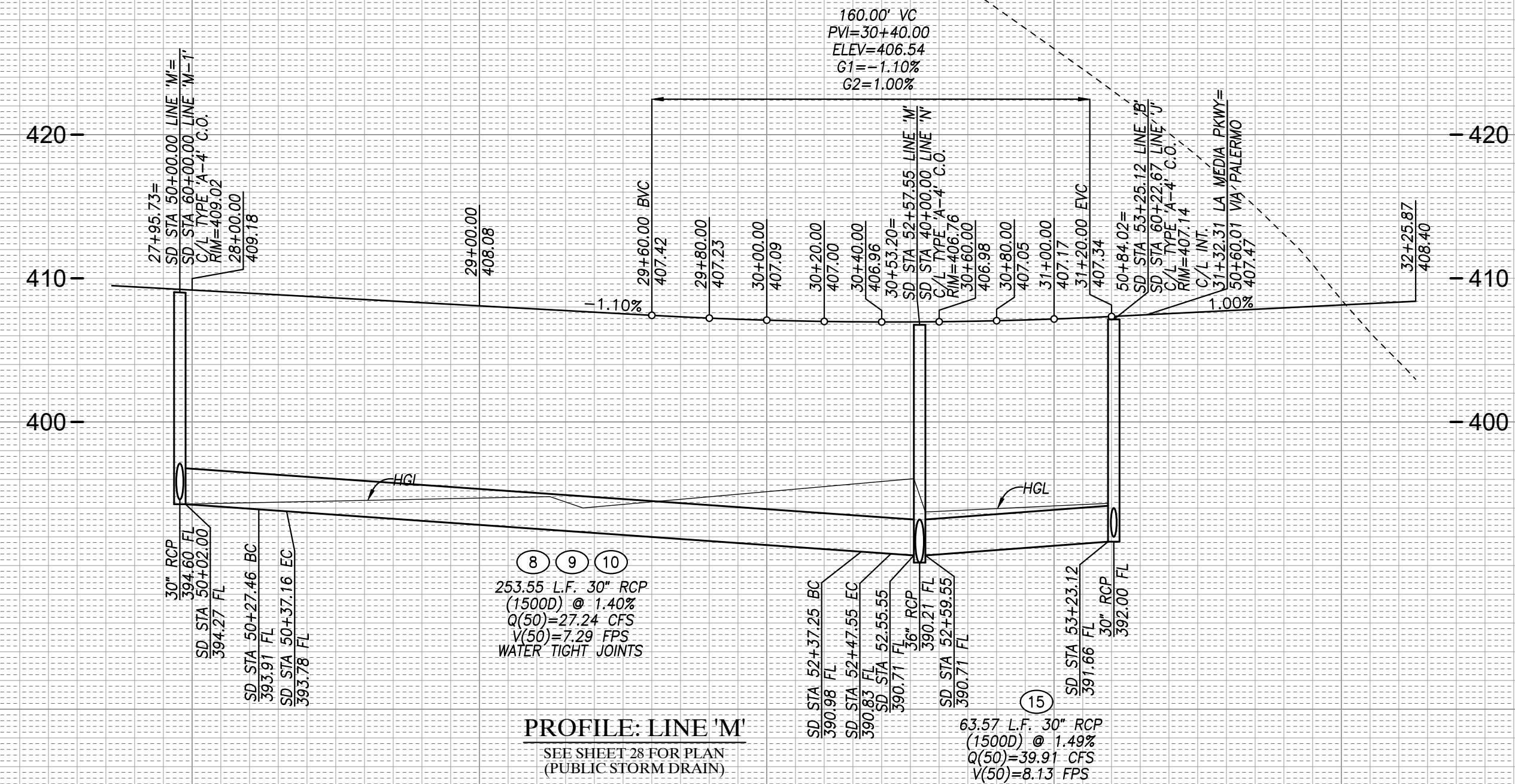
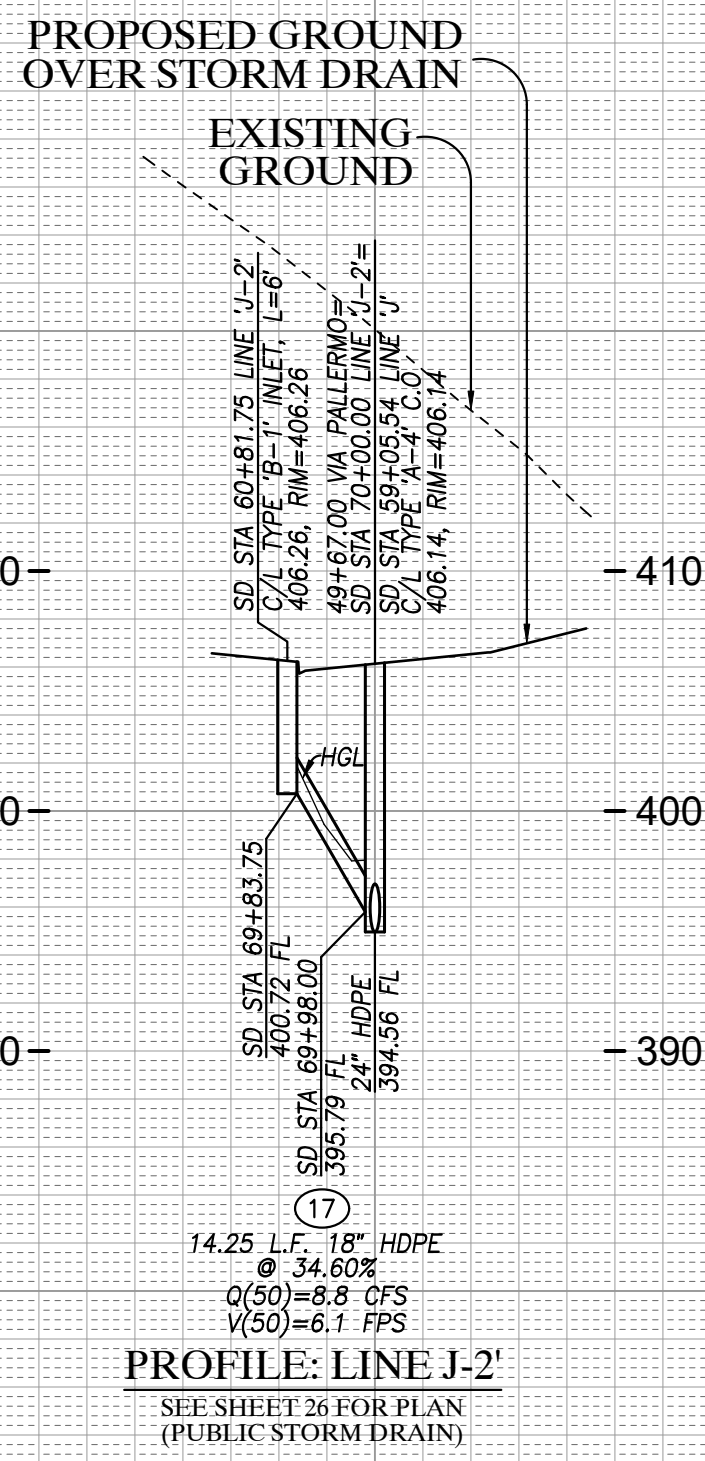
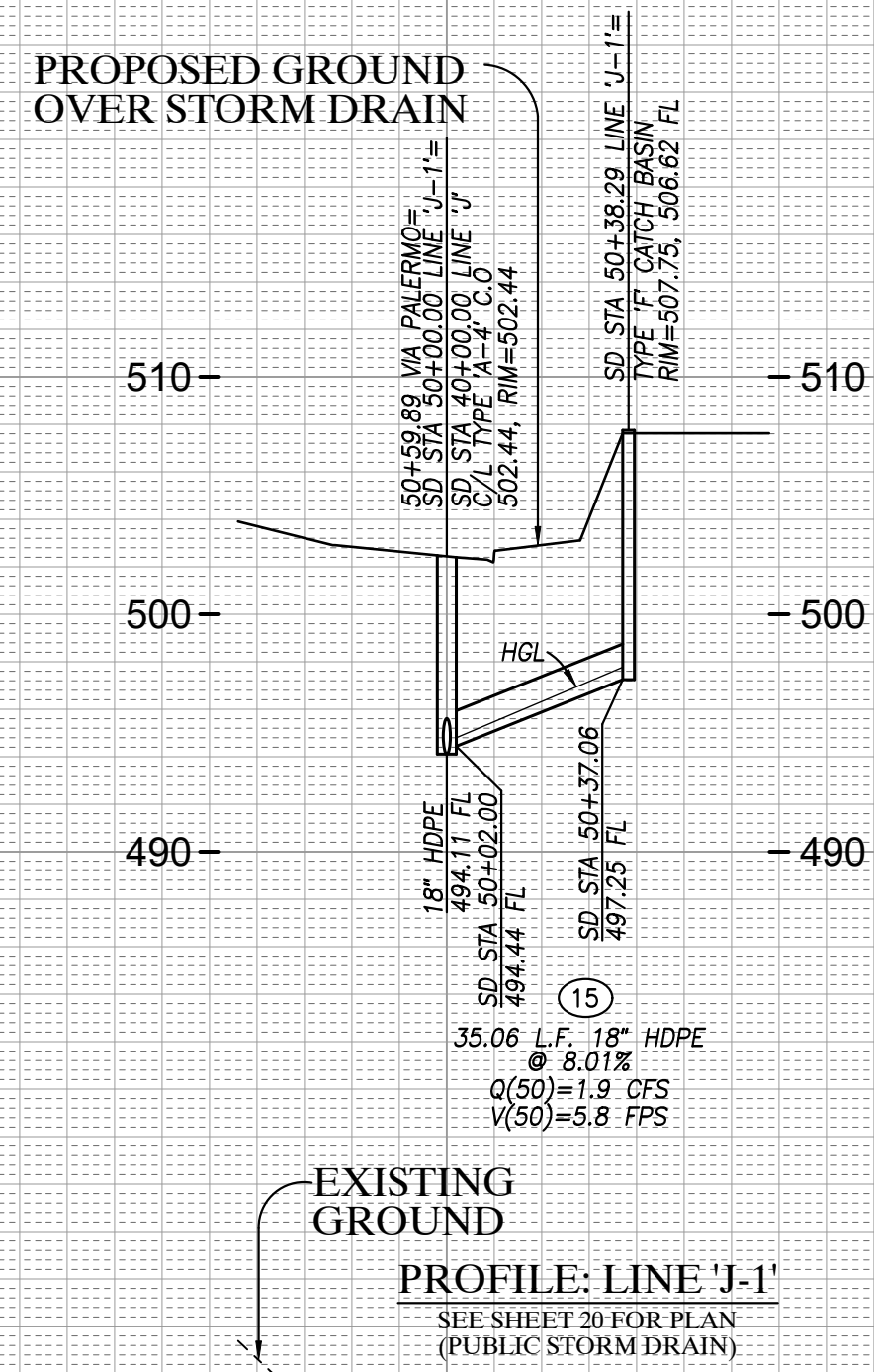
ROUGH GRADING PLANS FOR OTAY RANCH VILLAGE 8 EAST

PROFILE SCALES
 HORIZ. : 1"=40'
 VERT. : 1"=8'

STORM DRAIN PROFILES SHEET FOR OTAY RANCH VILLAGE 8 EAST CHULA VISTA TRACT NO. 22-0005	
DEVELOPMENT SERVICES DEPARTMENT	
Approved: _____ By: _____ Submitted: _____ Planning: _____	ACCELA NO.: XXXX PROJECT NO.: XXXX TOTAL SHEETS: 90 1796 - 6340 NAD83 COORDINATES 154 - 1773 LAMBERT COORDINATES
AS BUILT	
CONTRACTOR: _____ INSPECTOR: _____	DRAWING NO. G049 DATE COMPLETED: _____

AS BUILT SIGNATURE: _____ Date: _____ YOLANDA CALVO P.E. No. 61827 My Registration Expires: _____ Discipline: _____		UTILITY NOTE ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.																																
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DESIGNED BY: A.C.G./P.A.A. DRAWN BY: P.A.A. CHECKED BY: Y.C. PLANS PREPARED UNDER SUPERVISION OF: _____ YOLANDA CALVO R.C.E. No. 61827		THE CITY OF CHULA VISTA PLANNING: 9707 WAPLES STREET ENGINEERING: San Diego, Ca 92121 SURVEYING: PH858558-4500 FAX858558-1414																																

PROFILE SCALES
 HORIZ. : 1"=40'
 VERT. : 1"=8'



**STORM DRAIN PROFILES SHEET FOR
 OTAY RANCH VILLAGE 8 EAST**

CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT

ACCELA NO.: XXXX
 PROJECT NO.: XXXX
 TOTAL SHEETS: 90
 1796 - 6340
 NAD83 COORDINATES
 154 - 1773
 LAMBERT COORDINATES

Approved: _____
 By: _____
 Submitted: _____
 Planning: _____
 Landscape: _____

AS BUILT

CONTRACTOR: _____
 INSPECTOR: _____

DRAWING NO. G050
 XXXXX.XXX
 DATE COMPLETED: _____

AS BUILT		UTILITY NOTE	
SIGNATURE YOLANDA CALVO	Date P.E. No. 61827	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
My Registration Expires	Discipline		
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C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS	

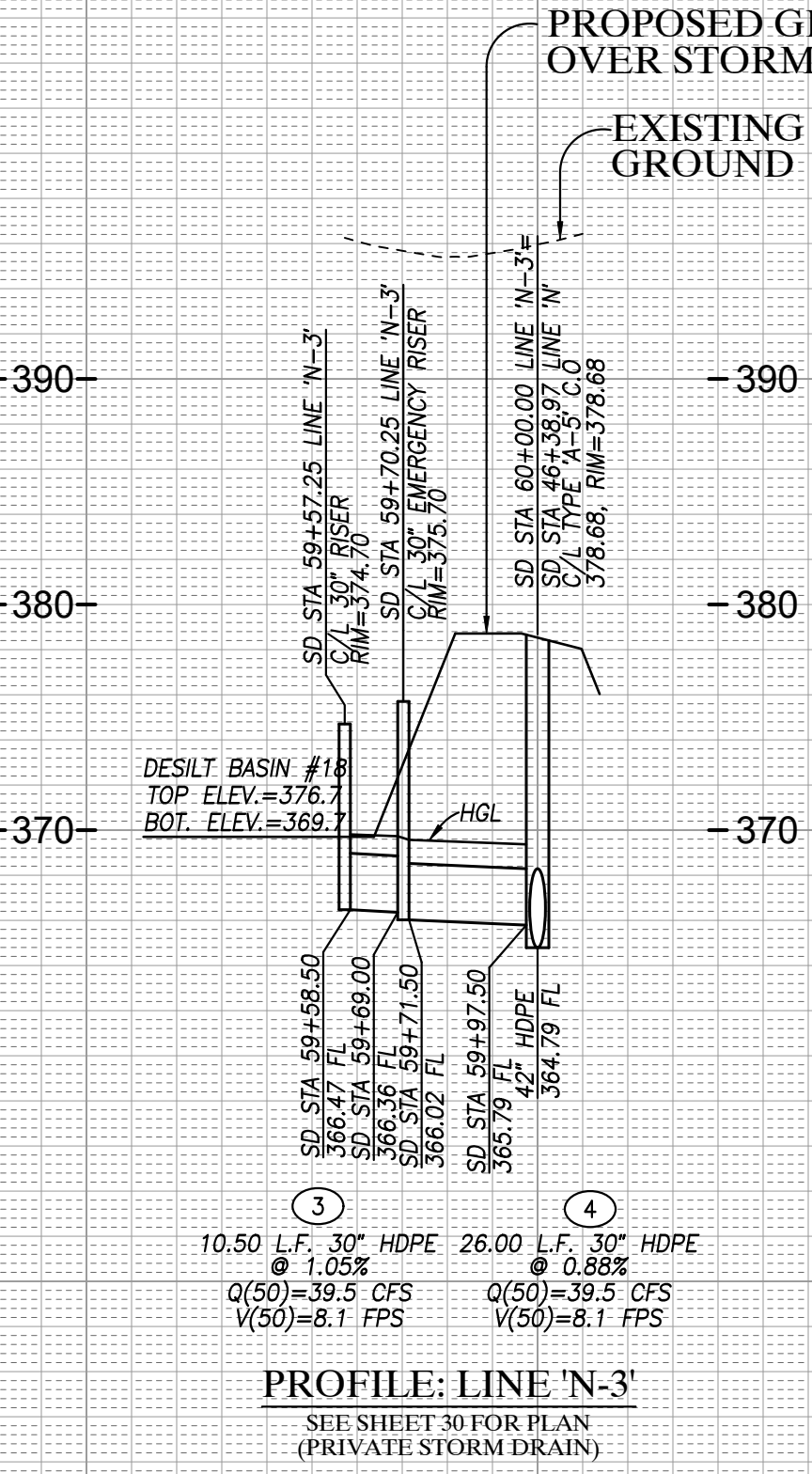
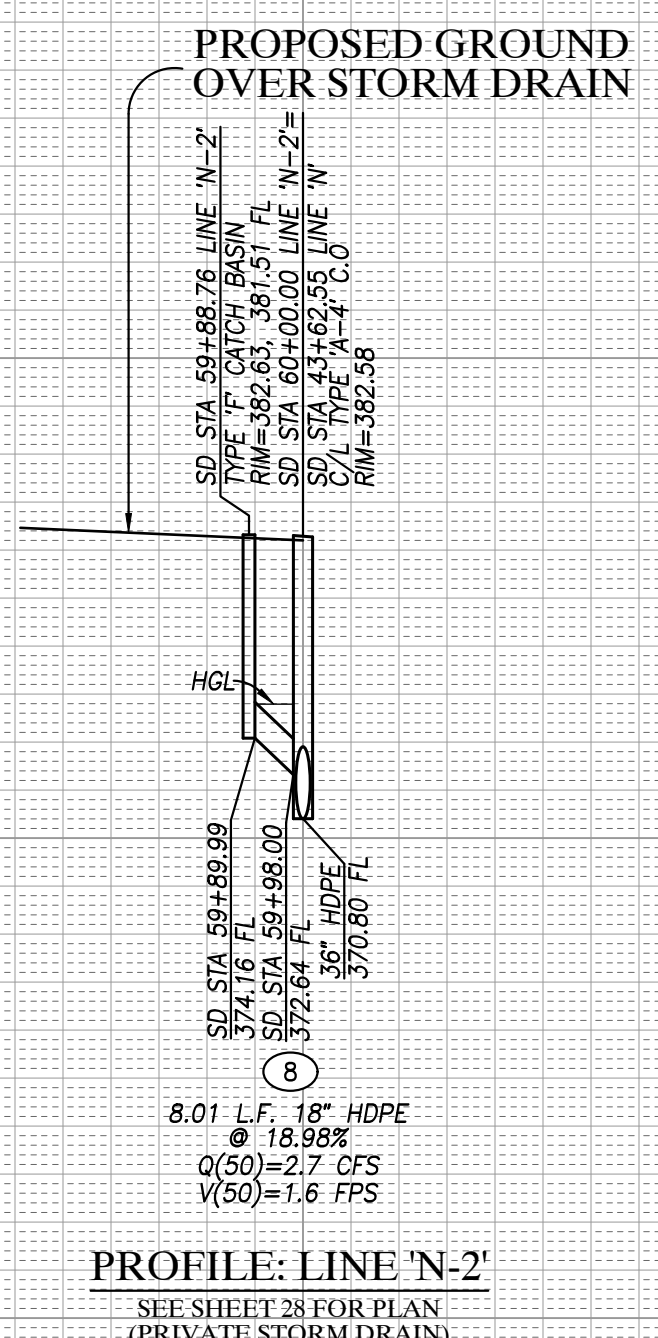
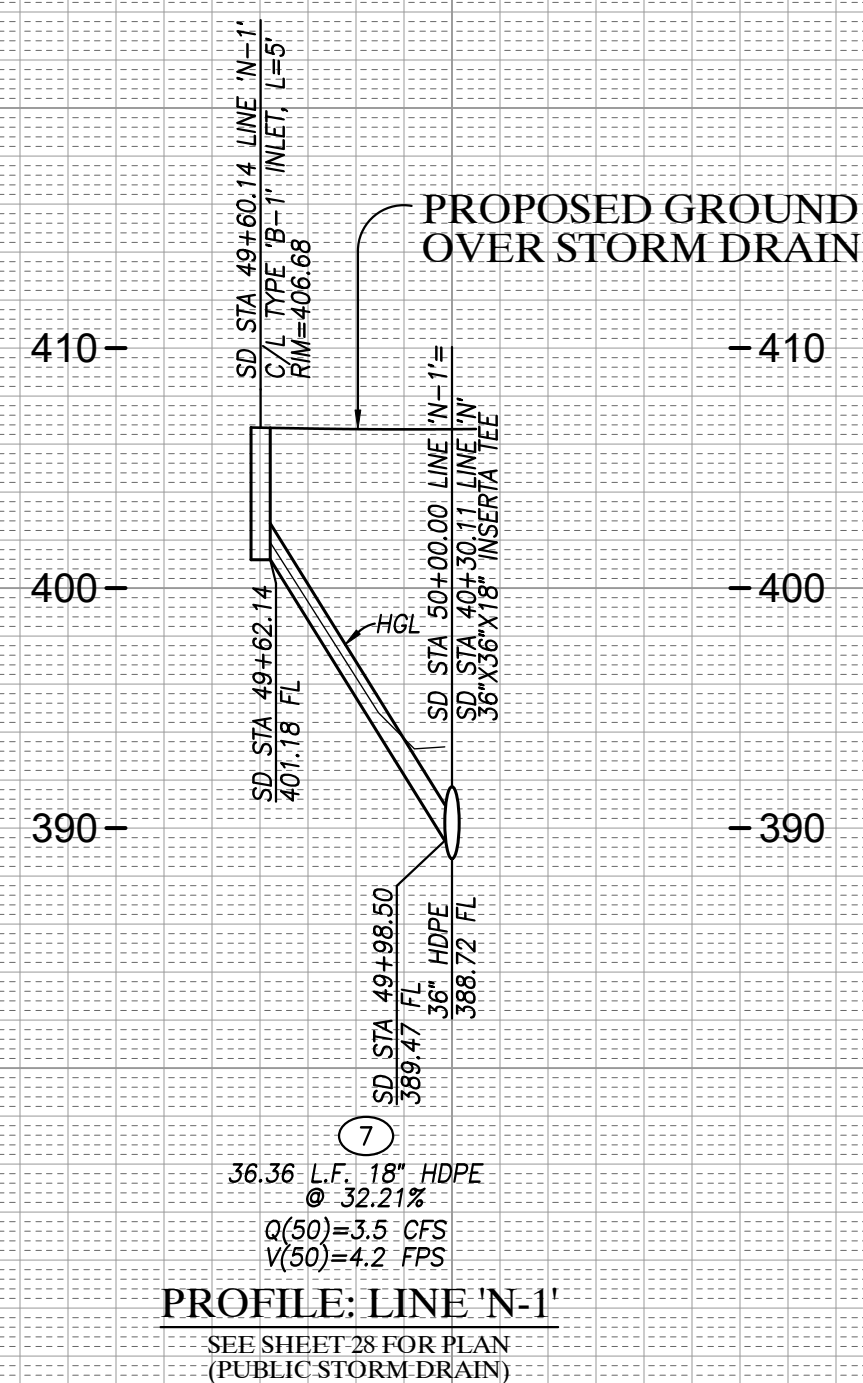
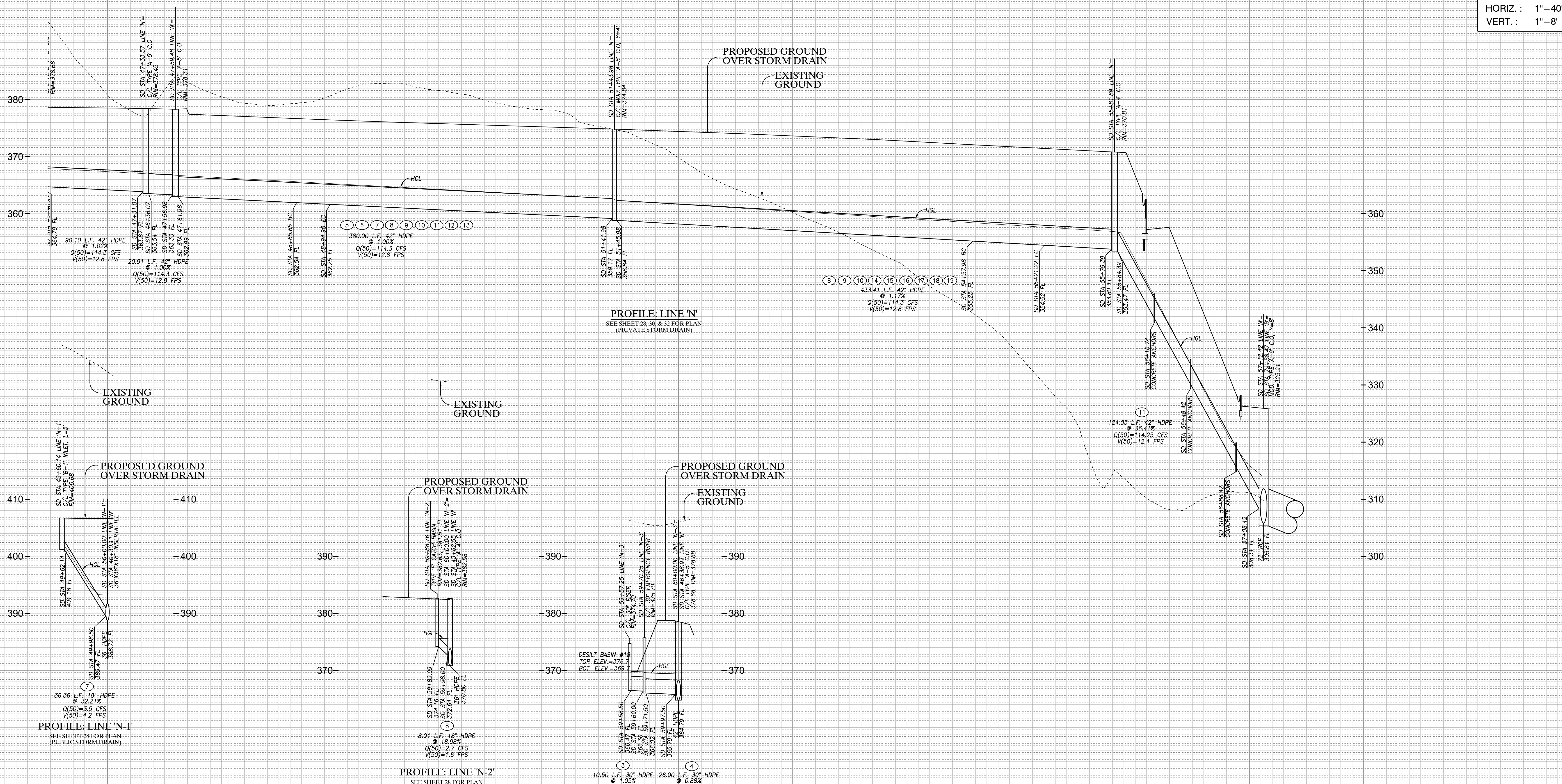
REVISIONS			REVISIONS		
By	Date	App'd	By	Date	App'd

HUNSAKER & ASSOCIATES
 SAN DIEGO, INC.
 PLANNING 9707 WAPLES STREET
 ENGINEERING San Diego, Ca 92121
 SURVEYING PH858558-4500 FX858558-1414

THE CITY OF CHULA VISTA
 Designed By: A.C.G./P.A.A. Drawn By: P.A.A. Checked By: Y.C.
 Plans Prepared Under Supervision Of: _____ Date: _____
 YOLANDA CALVO R.C.E. No. 61827

ROUGH GRADING PLANS FOR OTAY RANCH VILLAGE 8 EAST
 CIVIL ENGINEER: XXXX/XX/XX
 W.O. NO. 2395-0079

PROFILE SCALES
 HORIZ. : 1"=40'
 VERT. : 1"=8'



STORM DRAIN PROFILES SHEET FOR OTAY RANCH VILLAGE 8 EAST
 CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT

ACCELA NO.: XXXX
 PROJECT NO.: XXXX
 TOTAL SHEETS: 90
 1796 - 6340
 NAD83 COORDINATES
 154 - 1773
 LAMBERT COORDINATES

Approved: _____
 By: _____
 Submitted: _____
 By: _____
 Planning: _____ Landscape: _____

AS BUILT

CONTRACTOR: _____
 INSPECTOR: _____ DATE COMPLETED: _____

DRAWING NO. G051

HUNSAKER & ASSOCIATES
 SAN DIEGO, INC.

PLANNING 9707 WAPLES STREET
 ENGINEERING San Diego, Ca 92121
 SURVEYING PH4585558-4500 FAX8585558-1414

AS BUILT		UTILITY NOTE	
SIGNATURE YOLANDA CALVO	Date P.E. No. 61827	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
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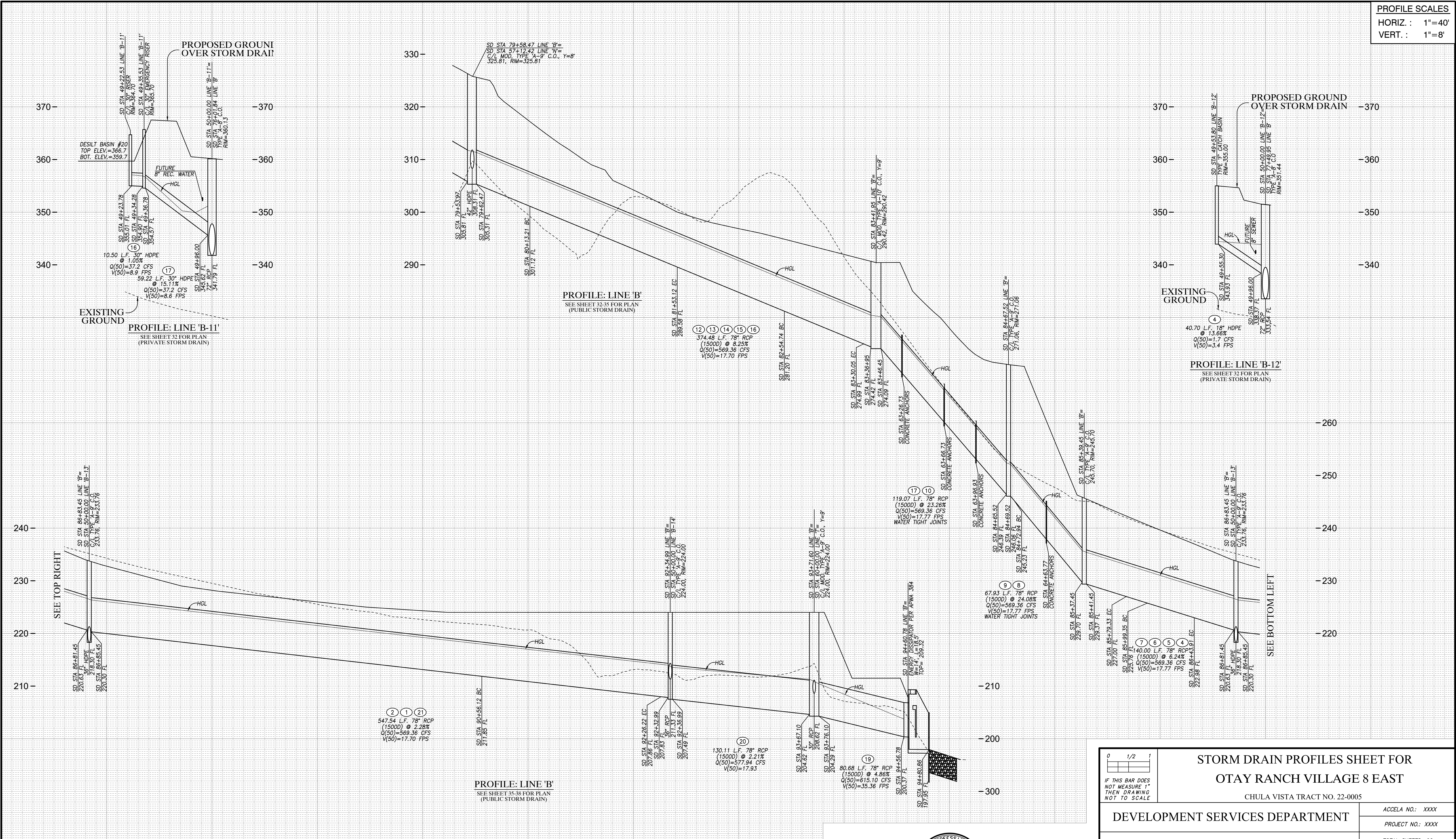
Designed By: A.C.G./P.A.A.	Drawn By: P.A.A.	Checked By: Y.C.
Plans Prepared Under Supervision Of: YOLANDA CALVO		Date: R.C.E. No. 61827

THE CITY OF CHULA VISTA

ROUGH GRADING PLANS FOR OTAY RANCH VILLAGE 8 EAST

CV-REVISION: XXXX/XX/XX
 W.O. NO. 2395-0079

PROFILE SCALES
 HORIZ. : 1"=40'
 VERT. : 1"=8'



AS BUILT		UTILITY NOTE	
Signature: YOLANDA CALVO	Date: _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
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C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS	

REVISIONS			REVISIONS			Designed By:	Drawn By:	Checked By:
By	Date	App'd	By	Date	App'd	A.C.G./P.A.A.	P.A.A.	Y.C.
Plans Prepared Under Supervision Of:						Date: _____		
YOLANDA CALVO						R.C.E. No. 61827		



HUNSAKER & ASSOCIATES
 SAN DIEGO, INC.
 PLANNING 9707 WAPLES STREET
 ENGINEERING San Diego, Ca 92121
 SURVEYING PH858558-4500 - FX858558-1414

THE CITY OF CHULA VISTA

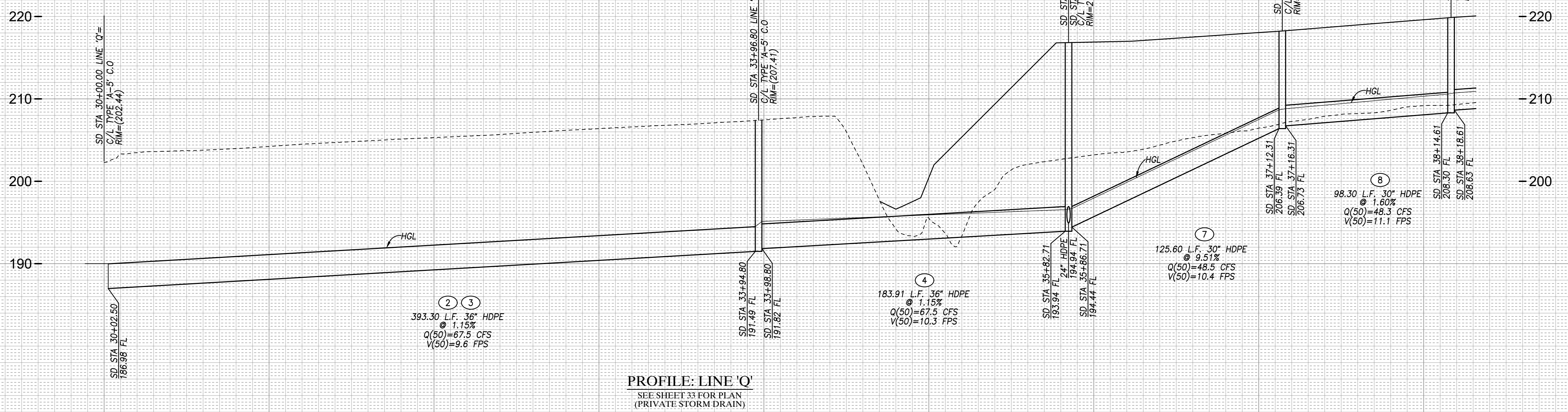
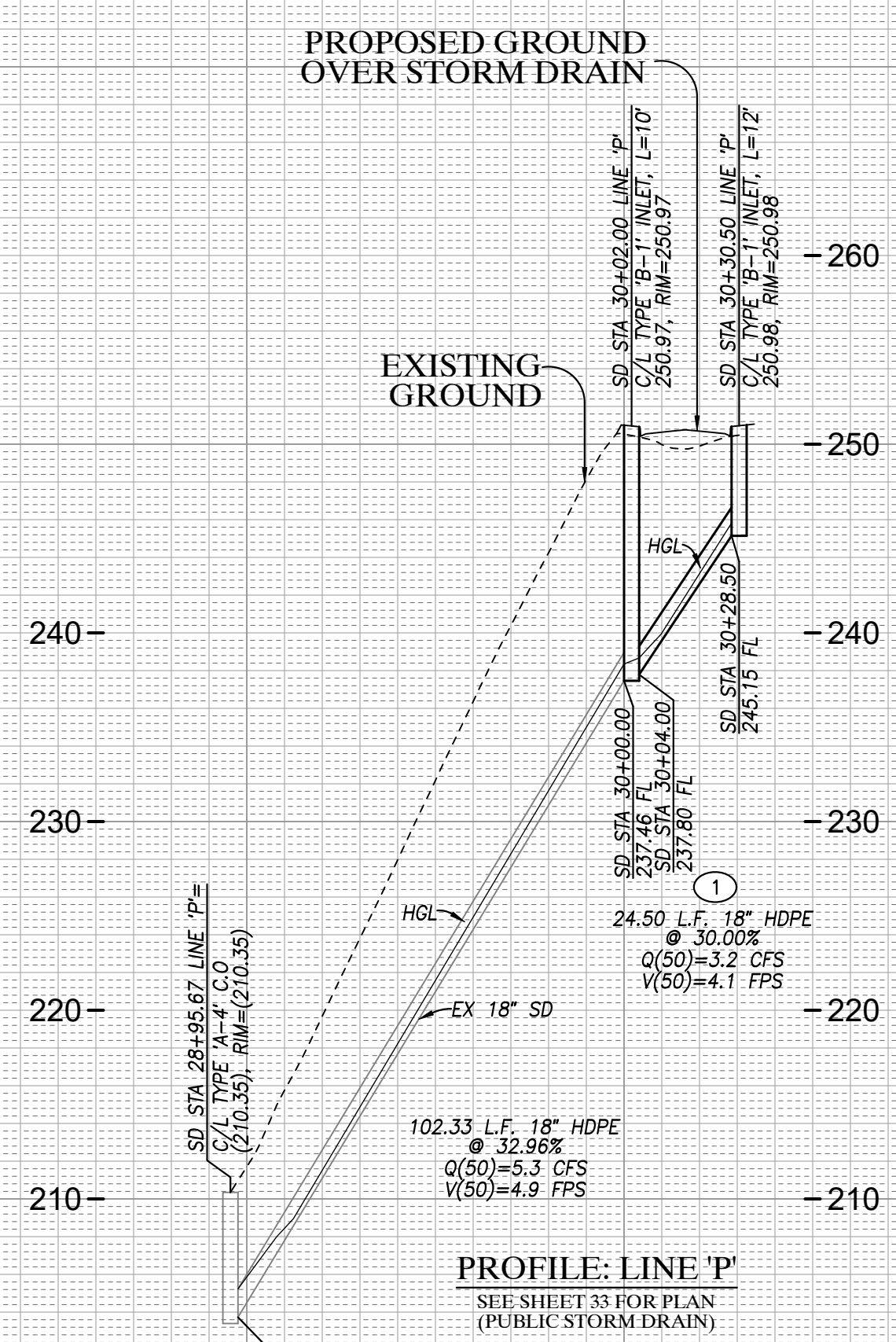
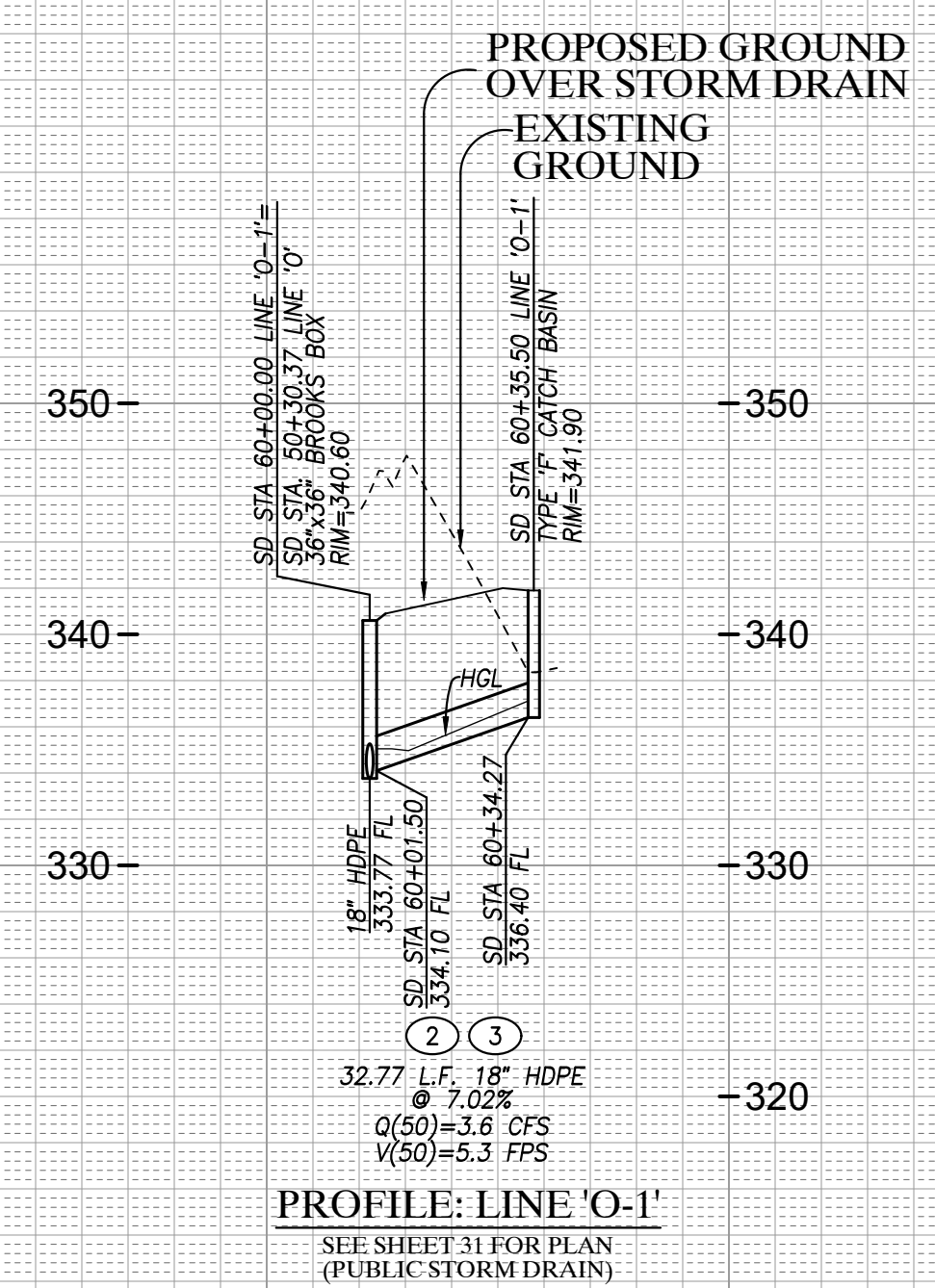
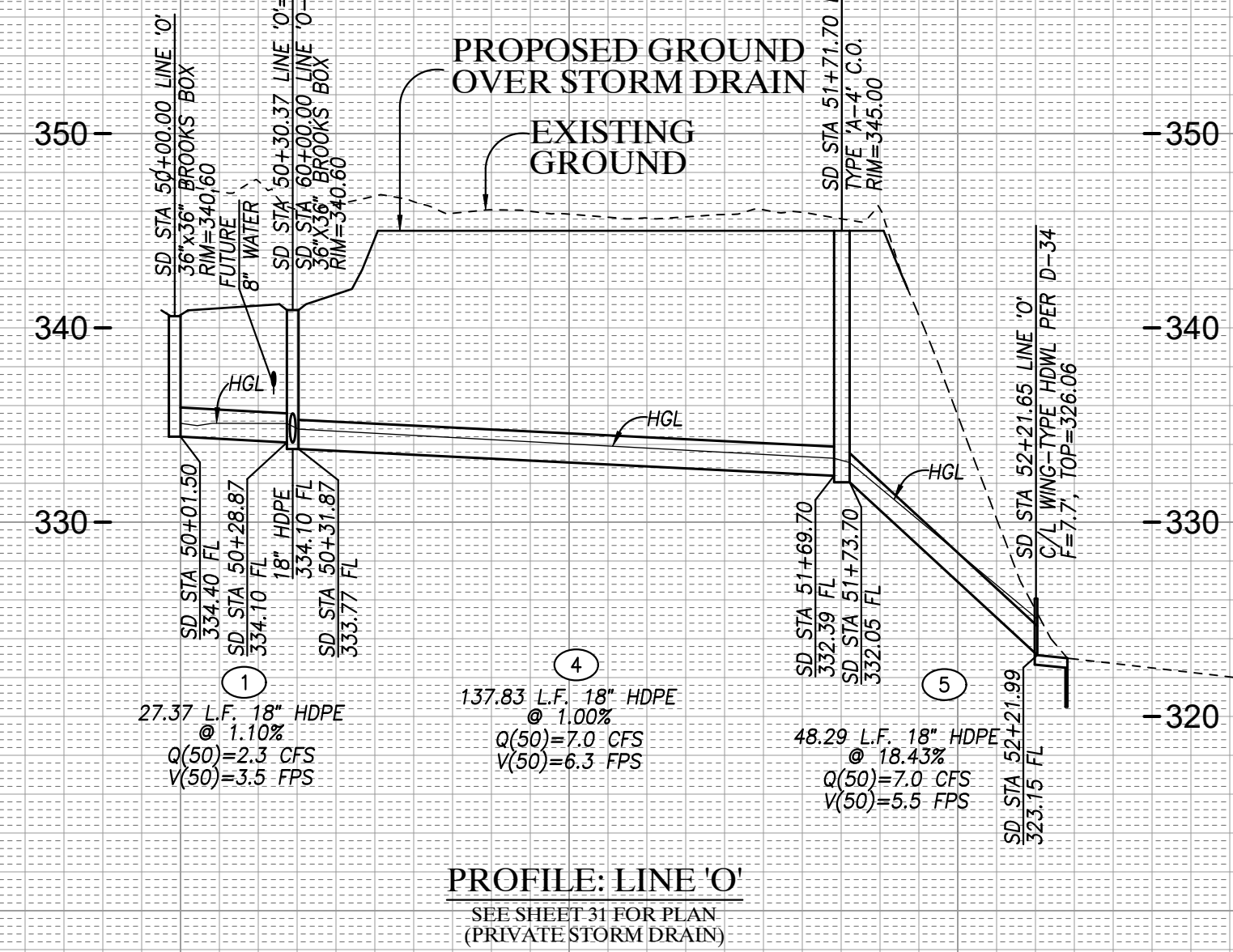
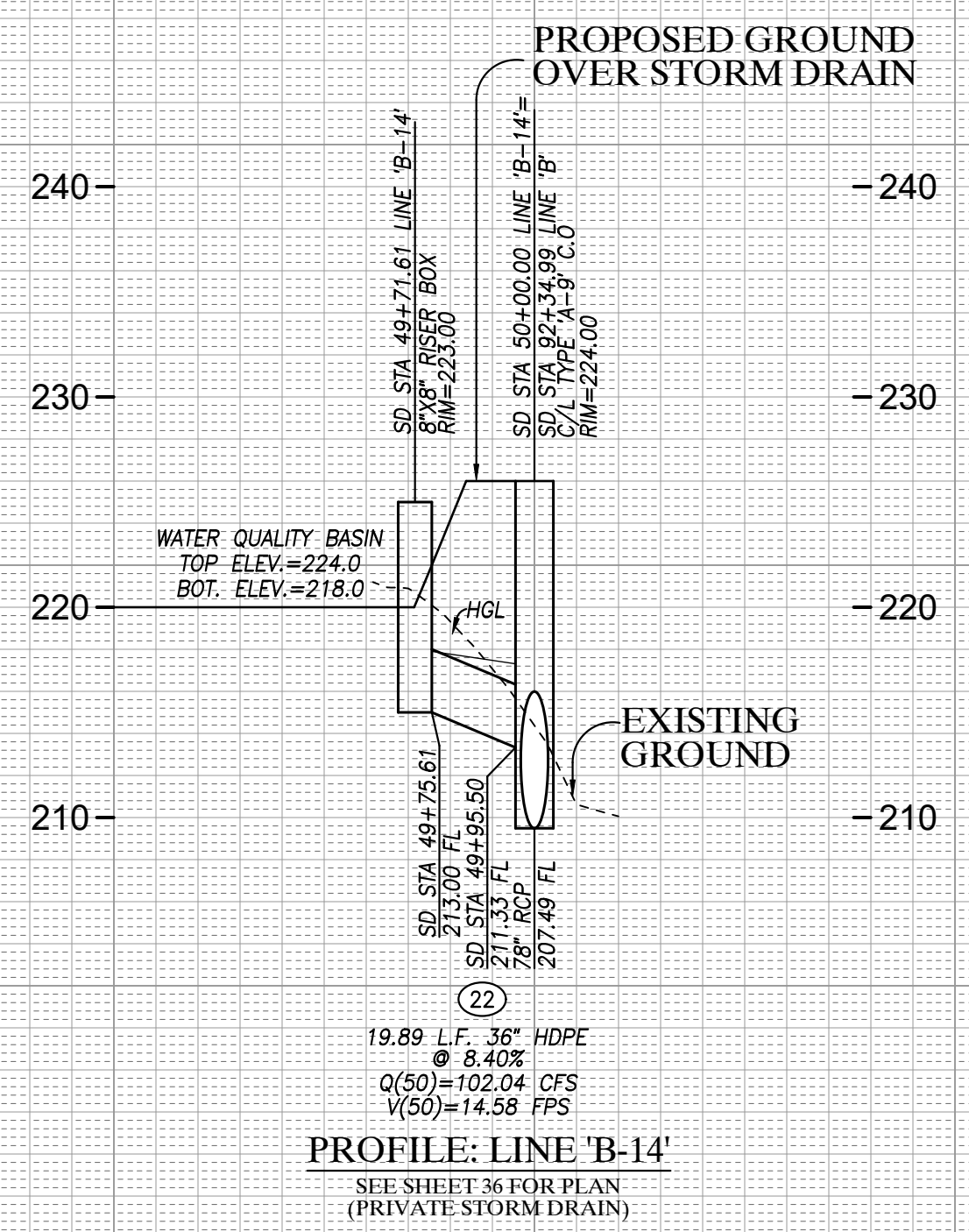
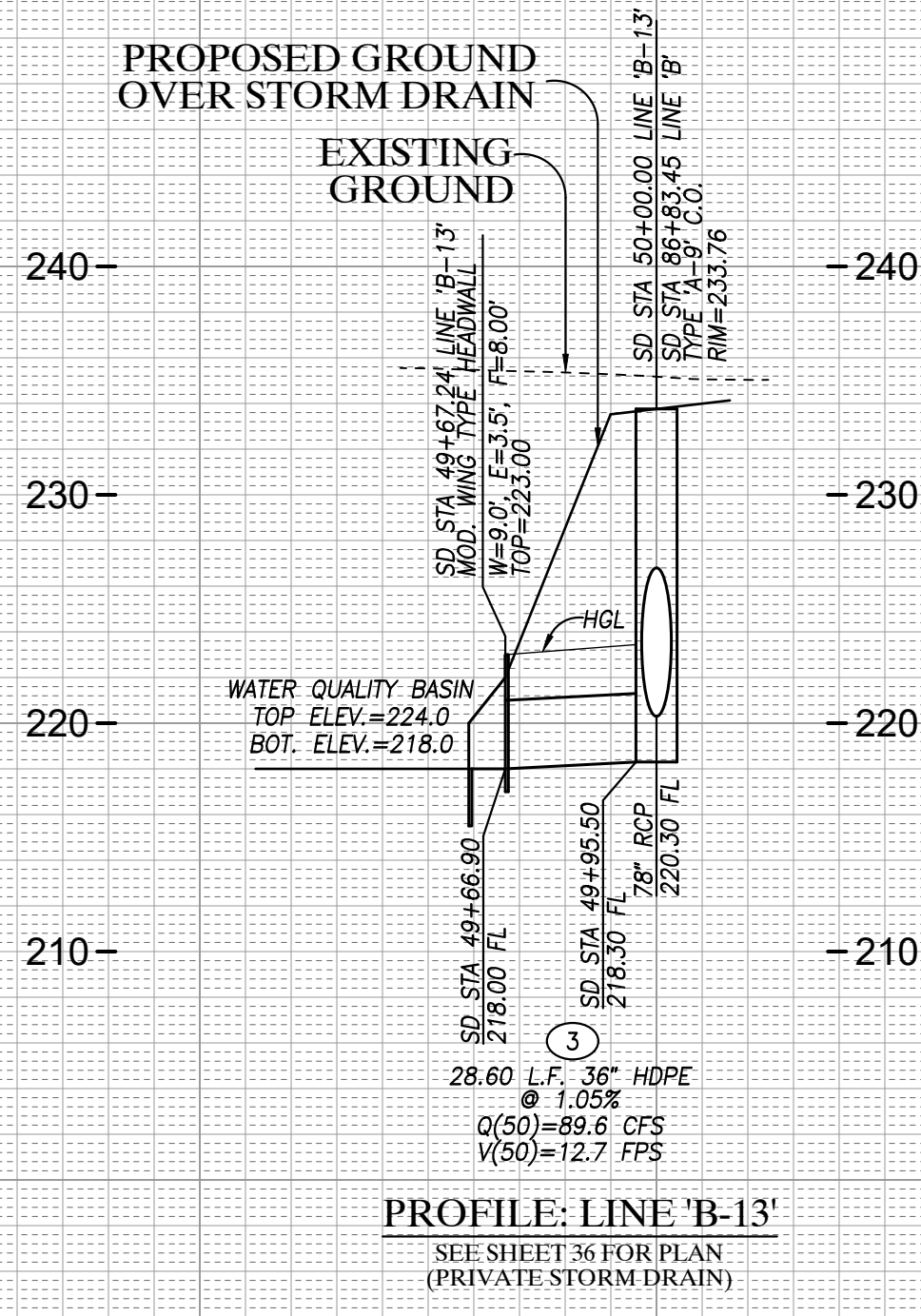
STORM DRAIN PROFILES SHEET FOR OTAY RANCH VILLAGE 8 EAST

CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT		ACCELA NO.: XXXX
Approved: _____		PROJECT NO.: XXXX
By: _____ Principal Civil Engineer		TOTAL SHEETS: 90
Submitted: _____		1796 - 6340
By: _____		NAD83 COORDINATES
Planning: _____		154 - 1773
Landscape: _____		LAMBERT COORDINATES
AS BUILT		
CONTRACTOR: _____	DRAWING NO. G052	XXXXX.XXX
INSPECTOR: _____	DATE COMPLETED: _____	

ROUGH GRADING PLANS FOR OTAY RANCH VILLAGE 8 EAST
 W.O. NO. 2395-0079

PROFILE SCALES
 HORIZ. : 1"=40'
 VERT. : 1"=8'



STORM DRAIN PROFILES SHEET FOR OTAY RANCH VILLAGE 8 EAST

CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT		ACCELA NO.: XXXX
		PROJECT NO.: XXXX
		TOTAL SHEETS: 90
		1796 - 6340
		NAD83 COORDINATES
		154 - 1773
		LAMBERT COORDINATES
AS BUILT		DRAWING NO. G053
CONTRACTOR: _____		XXXXX.XXX
INSPECTOR: _____		DATE COMPLETED: _____

HUNSAKER & ASSOCIATES
 SAN DIEGO, INC.

PLANNING 9707 WAPLES STREET
 ENGINEERING San Diego, Ca 92121
 SURVEYING PH8585558-4500 FX8585558-1414



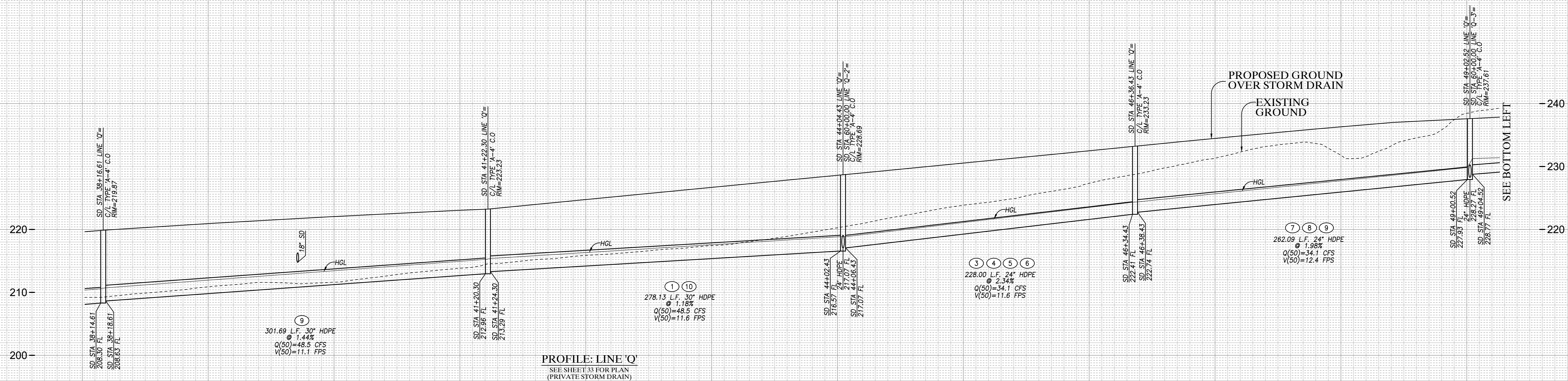
THE CITY OF CHULA VISTA

Designed By: A.C.G./P.A.A. Drawn By: P.A.A. Checked By: Y.C.
 Plans Prepared Under Supervision Of: _____ Date: _____
 YOLANDA CALVO R.C.E. No. 61827

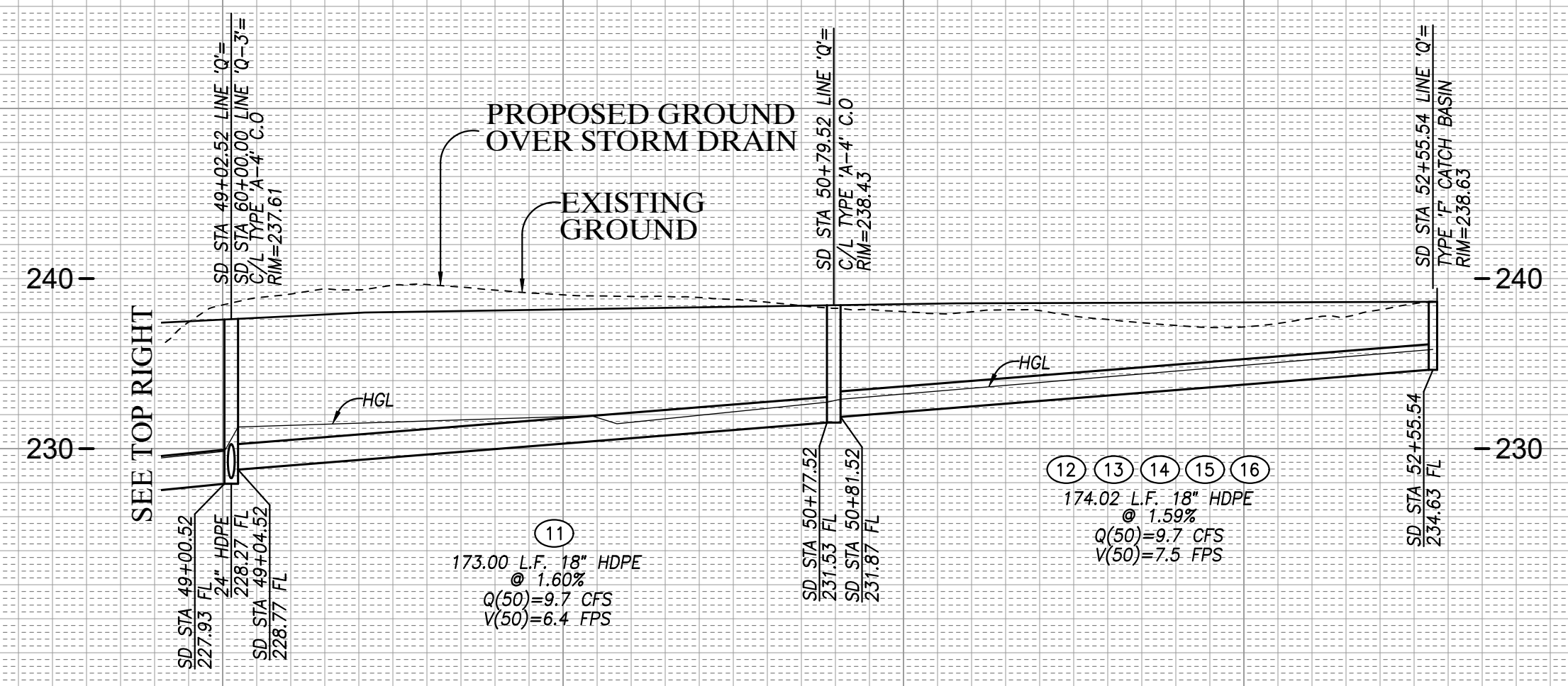
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Signature: _____ YOLANDA CALVO	Date: _____ P.E. No. 61827	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
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C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS	

ROUGH GRADING PLANS FOR OTAY RANCH VILLAGE 8 EAST

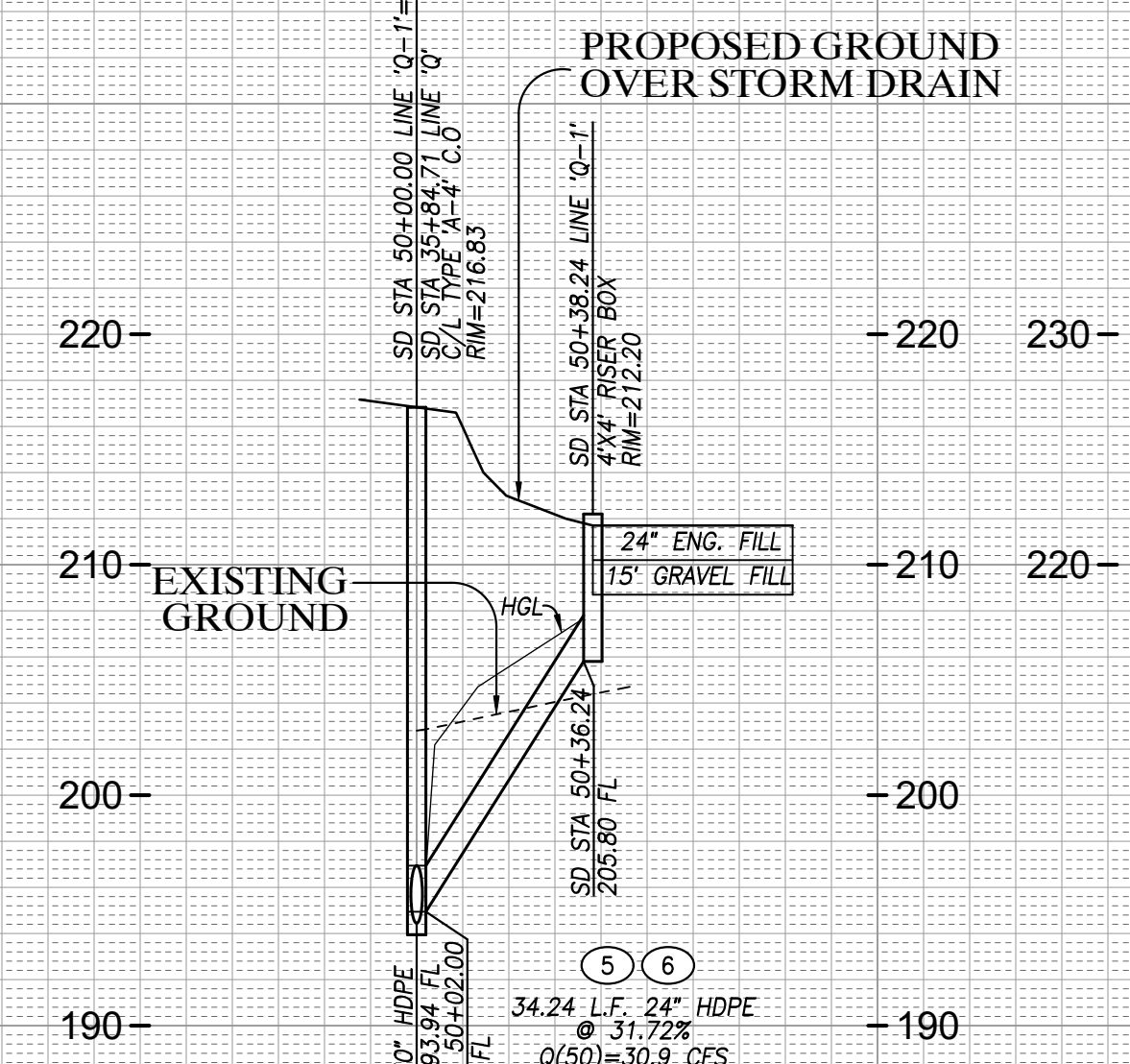
PROFILE SCALES
 HORIZ. : 1"=40'
 VERT. : 1"=8'



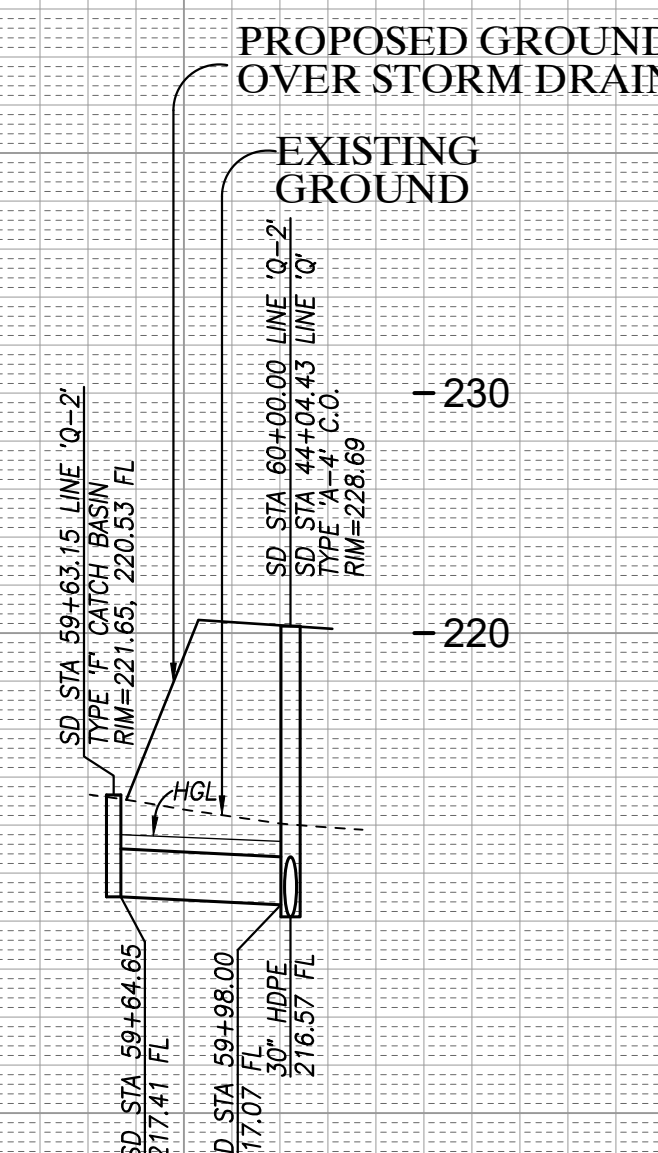
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 SEE SHEET 33 FOR PLAN
 (PRIVATE STORM DRAIN)



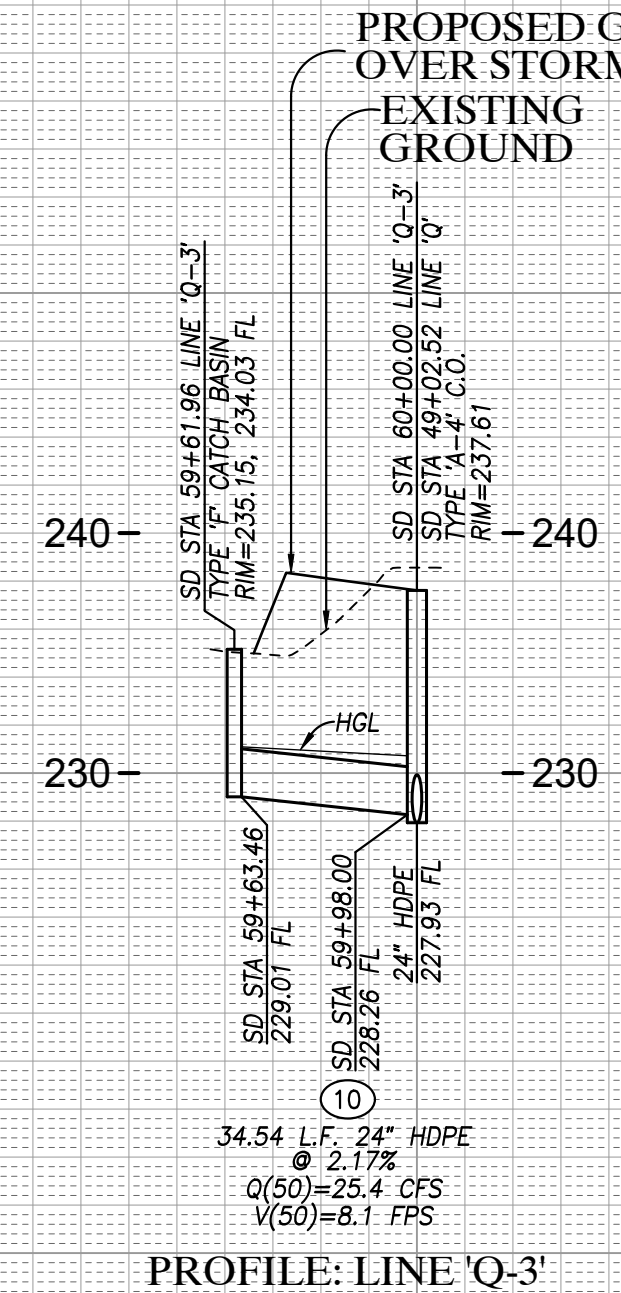
PROFILE: LINE 'Q'
 SEE SHEET 33 FOR PLAN
 (PRIVATE STORM DRAIN)



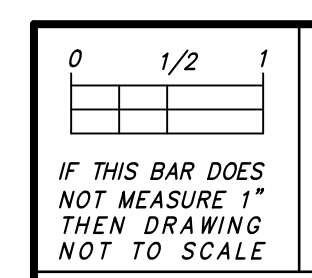
PROFILE: LINE 'Q-1'
 SEE SHEET 33 FOR PLAN
 (PRIVATE STORM DRAIN)



PROFILE: LINE 'Q-2'
 SEE SHEET 34 FOR PLAN
 (PRIVATE STORM DRAIN)



PROFILE: LINE 'Q-3'
 SEE SHEET 34 FOR PLAN
 (PRIVATE STORM DRAIN)



STORM DRAIN PROFILES SHEET FOR
 OTAY RANCH VILLAGE 8 EAST
 CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT

ACCELA NO.: XXXX
 PROJECT NO.: XXXX
 TOTAL SHEETS: 90
 1796 - 6340
 NAD83 COORDINATES
 154 - 1773
 LAMBERT COORDINATES

Approved: _____
 By: _____
 Submitted: _____
 By: _____
 Planning: _____ Landscape: _____

AS BUILT

CONTRACTOR: _____
 INSPECTOR: _____ DATE COMPLETED: _____

DRAWING NO. G054



HUNSAKER & ASSOCIATES
 SAN DIEGO, INC.
 PLANNING 9707 WAPLES STREET
 ENGINEERING San Diego, Ca 92121
 SURVEYING PH858558-4500 FX858558-1414

AS BUILT	UTILITY NOTE
SIGNATURE YOLANDA CALVO My Registration Expires _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.
Date _____ P.E. No. 61827 Discipline _____	

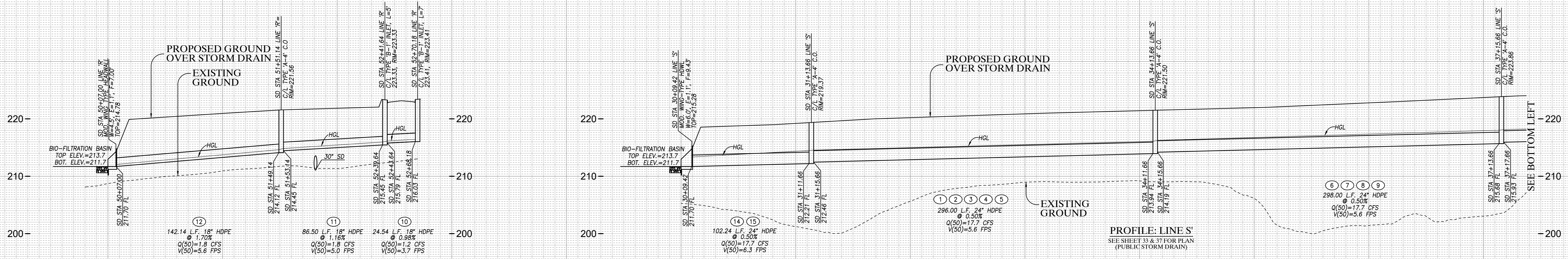
REVISIONS	By	Date	App'd	REVISIONS	By	Date	App'd
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C.V. DWG. NO. 04068-GRADING PLANS				C.V. DWG. NO. 14012-IMP. PLANS			
C.V. DWG. NO. 04078-IMP. PLANS				C.V. DWG. NO. 20028-GRADING PLANS			
C.V. DWG. NO. 04080-IMP. PLANS				C.V. DWG. NO. 18016-GRADING PLANS			
				C.V. DWG. NO. 20029-GRADING PLANS			
				C.V. DWG. NO. 19036-IMP. PLANS			
				C.V. DWG. NO. 22043-GRADING PLANS			

Designed By: A.C.G./P.A.A.
 Drawn By: P.A.A.
 Checked By: Y.C.
 Plans Prepared Under Supervision Of: _____ Date: _____
 YOLANDA CALVO R.C.E. No. 61827

THE CITY OF CHULA VISTA

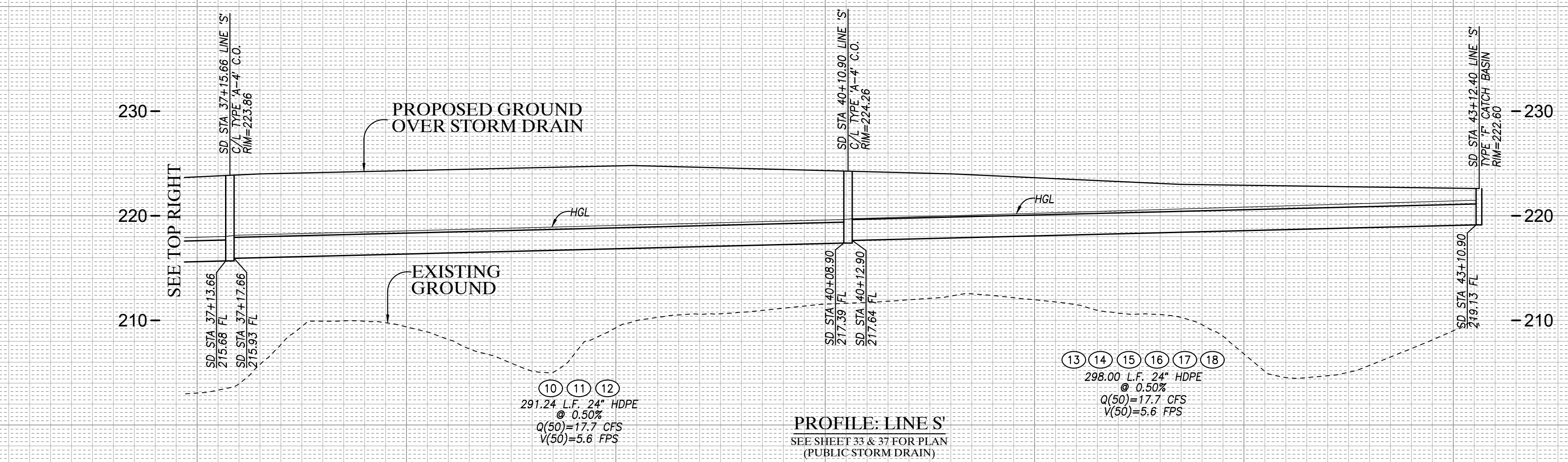
ROUGH GRADING PLANS FOR
 OTAY RANCH VILLAGE 8 EAST
 W.O. NO. 2395-0079

PROFILE SCALES
 HORIZ. : 1"=40'
 VERT. : 1"=8'



PROFILE: LINE R
 SEE SHEET 33 FOR PLAN
 (PRIVATE STORM DRAIN)

PROFILE: LINE S
 SEE SHEET 33 & 37 FOR PLAN
 (PUBLIC STORM DRAIN)



PROFILE: LINE S
 SEE SHEET 33 & 37 FOR PLAN
 (PUBLIC STORM DRAIN)

PROFILE: LINE U
 SEE SHEET 35 FOR PLAN
 (PRIVATE STORM DRAIN)

**STORM DRAIN PROFILES SHEET FOR
 OTAY RANCH VILLAGE 8 EAST**

CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT

ACCELA NO.: XXXX
 PROJECT NO.: XXXX
 TOTAL SHEETS: 90
 1796 - 6340
 NAD83 COORDINATES
 154 - 1773
 LAMBERT COORDINATES

Approved: _____
 By: _____
 Submitted: _____
 Planning: _____ Landscape: _____

AS BUILT

CONTRACTOR: _____
 INSPECTOR: _____ DATE COMPLETED: _____

DRAWING NO. G055

AS BUILT		UTILITY NOTE	
SIGNATURE YOLANDA CALVO	Date P.E. No. 61827	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
My Registration Expires _____ Discipline _____		REFERENCE DRAWINGS	
C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS	SR-125 PLANS-11232304	
C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS	
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS	
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS	

REVISIONS			REVISIONS		
By	Date	App'd	By	Date	App'd

Designed By: A.C.G./P.A.A.	Drawn By: P.A.A.	Checked By: Y.C.
Plans Prepared Under Supervision Of: YOLANDA CALVO		Date: R.C.E. No. 61827

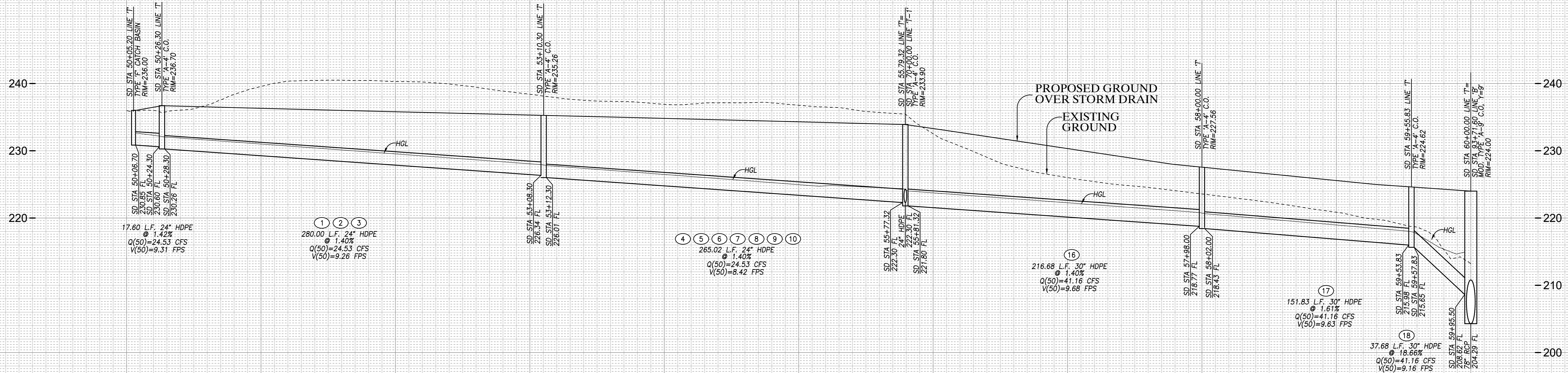
HUNSAKER & ASSOCIATES
 SAN DIEGO, INC.

PLANNING 9707 WAPLES STREET
 ENGINEERING San Diego, Ca 92121
 SURVEYING PH858558-4500 FX858558-1414

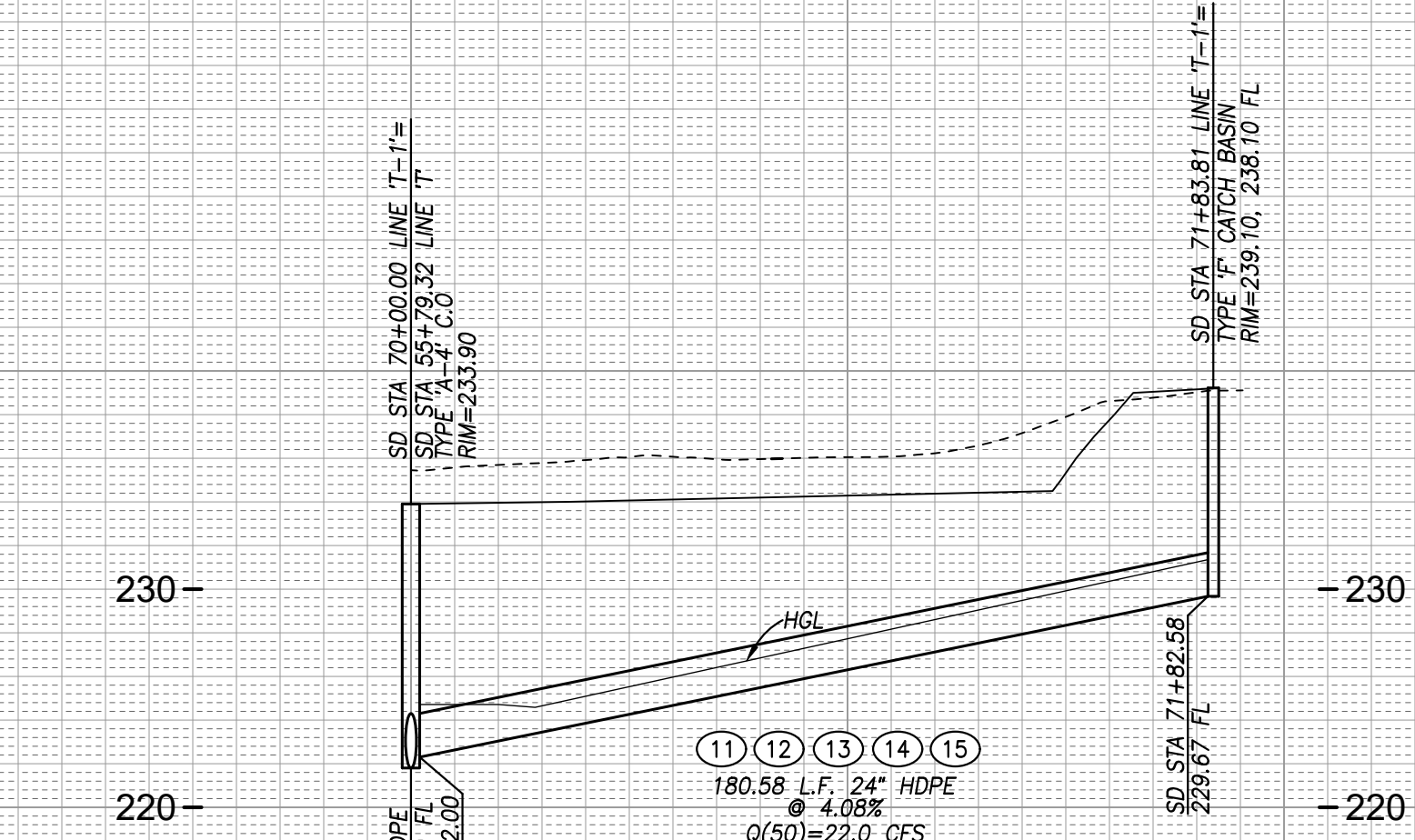
THE CITY OF CHULA VISTA

ROUGH GRADING PLANS FOR OTAY RANCH VILLAGE 8 EAST
 CIVIL ENGINEER: XXXX/XX/XX
 W.O. NO. 2395-0079

PROFILE SCALES
 HORIZ. : 1"=40'
 VERT. : 1"=8'



PROFILE: LINE T
 SEE SHEET 35 FOR PLAN
 (PRIVATE STORM DRAIN)



PROFILE: LINE T-1
 SEE SHEET 35 FOR PLAN
 (PRIVATE STORM DRAIN)

STORM DRAIN PROFILES SHEET FOR
 OTAY RANCH VILLAGE 8 EAST
 CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT

ACCELA NO.: XXXX
 PROJECT NO.: XXXX
 TOTAL SHEETS: 90
 1796 - 6340
 NAD83 COORDINATES
 154 - 1773
 LAMBERT COORDINATES

Approved: _____
 By: _____
 Submitted: _____
 By: _____
 Planning: _____ Landscape: _____

AS BUILT

DRAWING NO. G056
 CONTRACTOR: XXXXX.XXX
 INSPECTOR: _____ DATE COMPLETED: _____

REGISTERED PROFESSIONAL ENGINEER
 YOLANDA CALVO
 No. 61827
 CIVIL
 STATE OF CALIFORNIA

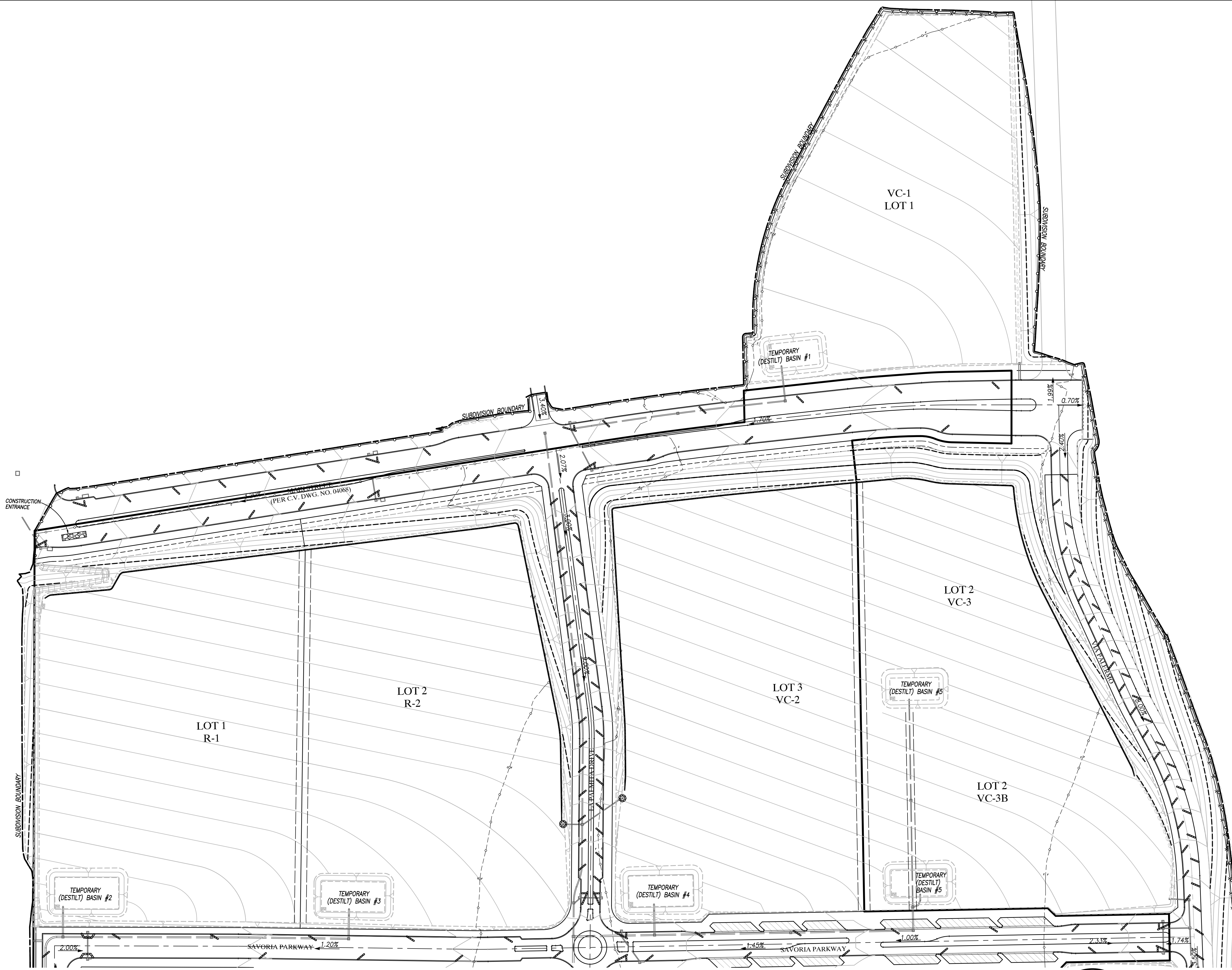
HUNSAKER & ASSOCIATES
 SAN DIEGO, INC.
 PLANNING 9707 WAPLES STREET
 ENGINEERING San Diego, Ca 92121
 SURVEYING PH8585558-4500 - FX8585558-1414

AS BUILT		UTILITY NOTE	
SIGNATURE YOLANDA CALVO	Date P.E. No. 61827	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
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C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS	
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS	
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS	

DESIGNED BY A.C.G./P.A.A.	DRAWN BY P.A.A.	CHECKED BY Y.C.
Plans Prepared Under Supervision Of: _____ Date: _____		
YOLANDA CALVO R.C.E. No. 61827		

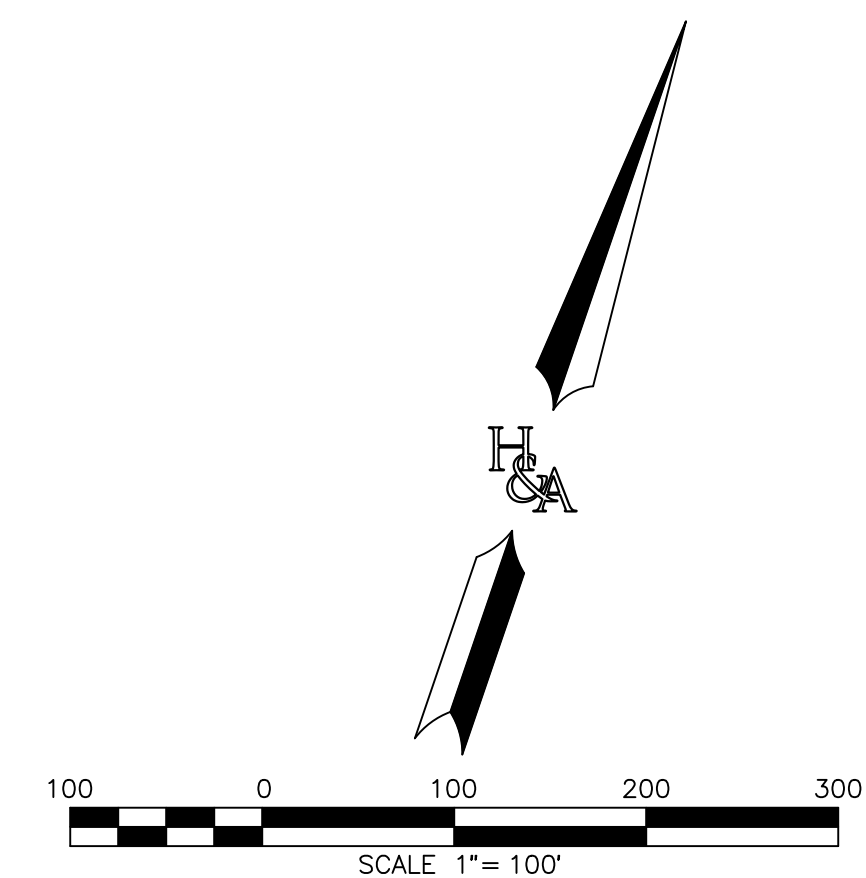
THE CITY OF
 CHULA VISTA

ROUGH GRADING PLANS FOR
 OTAY RANCH VILLAGE 8 EAST
 W.O. NO. 2395-0079



LEGEND:

SUBDIVISION BOUNDARY.....	---
PROPERTY LINE.....	----
STORM DRAIN.....	====
CURB INLET.....	— —
CLEANOUT.....	— — —
DIRECTION OF FLOW.....	2.00%
FIBER ROLLS.....	-----
GRAVEL BAGS.....	o-o-o-o
SILT FENCE.....	x-x-x-x
ORANGE BIO FENCE.....	o-o-o-o
CONSTRUCTION ENTRANCE.....	▨



SEE SHEET 58

AS BUILT		UTILITY NOTE																																																						
Signature: YOLANDA CALVO	Date: P.E. No. 61827	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.																																																						
My Registration Expires: _____		Discipline: _____																																																						
<table border="1"> <thead> <tr> <th colspan="4">REFERENCE DRAWINGS</th> <th colspan="4">REVISIONS</th> </tr> <tr> <th>C.V. DWG. NO.</th> <th>DESCRIPTION</th> <th>By</th> <th>Date</th> <th>App'd</th> <th>REVISIONS</th> <th>By</th> <th>Date</th> <th>App'd</th> </tr> </thead> <tbody> <tr> <td>C.V. DWG. NO. 02025-IMP. PLANS</td> <td>C.V. DWG. NO. 14011-GRADING PLANS</td> <td>SR-125 PLANS-11232304</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>C.V. DWG. NO. 04068-GRADING PLANS</td> <td>C.V. DWG. NO. 14012-IMP. PLANS</td> <td>C.V. DWG. NO. 20028-GRADING PLANS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>C.V. DWG. NO. 04078-IMP. PLANS</td> <td>C.V. DWG. NO. 18016-GRADING PLANS</td> <td>C.V. DWG. NO. 20029-GRADING PLANS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>C.V. DWG. NO. 04080-IMP. PLANS</td> <td>C.V. DWG. NO. 19036-IMP. PLANS</td> <td>C.V. DWG. NO. 22043-GRADING PLANS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				REFERENCE DRAWINGS				REVISIONS				C.V. DWG. NO.	DESCRIPTION	By	Date	App'd	REVISIONS	By	Date	App'd	C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS	SR-125 PLANS-11232304							C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS							C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS							C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS						
REFERENCE DRAWINGS				REVISIONS																																																				
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HUNSAKER & ASSOCIATES
 SAN DIEGO, INC.
 PLANNING 9707 WAPLES STREET
 ENGINEERING San Diego, Ca 92121
 SURVEYING PH858558-4500 FX858558-1414

THE CITY OF CHULA VISTA
 Designed By: A.C.G./P.A.A. Drawn By: P.A.A. Checked By: Y.C.
 Plans Prepared Under Supervision Of: _____ Date: _____
 YOLANDA CALVO R.C.E. No. 61827

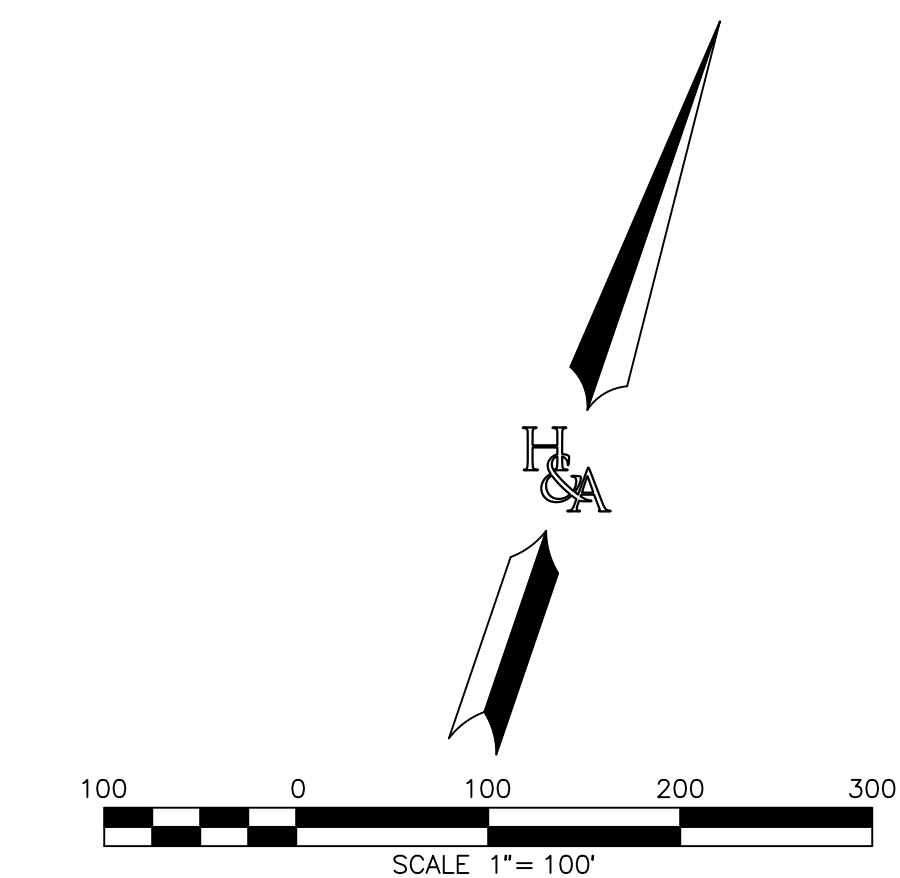
EROSION CONTROL PLANS SHEET FOR OTAY RANCH VILLAGE 8 EAST CHULA VISTA TRACT NO. 22-0005	
DEVELOPMENT SERVICES DEPARTMENT	
Approved: _____ By: _____ Submitted: _____ By: _____ Planning: _____ Landscape: _____	ACCELA NO.: XXXX PROJECT NO.: XXXX TOTAL SHEETS: 90 1796 - 6340 NAD83 COORDINATES 154 - 1773 LAMBERT COORDINATES
AS BUILT	
CONTRACTOR: _____ INSPECTOR: _____	DRAWING NO. G057 XXXXX.XXX DATE COMPLETED: _____

ROUGH GRADING PLANS FOR OTAY RANCH VILLAGE 8 EAST
 W.O. NO. 2395-0079

SEE SHEET 57



- LEGEND:**
- SUBDIVISION BOUNDARY.....
 - PROPERTY LINE.....
 - STORM DRAIN.....
 - CURB INLET.....
 - CLEANOUT.....
 - DIRECTION OF FLOW..... 2.00%
 - FIBER ROLLS.....
 - GRAVEL BAGS.....
 - SILT FENCE.....
 - ORANGE BIO FENCE.....
 - CONSTRUCTION ENTRANCE.....



SEE SHEET X

ROUGH GRADING PLANS FOR OTAY RANCH VILLAGE 8 EAST

SEE SHEET 59

AS BUILT		UTILITY NOTE	
SIGNATURE YOLANDA CALVO	Date P.E. No. 61827	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
My Registration Expires	Discipline		
REFERENCE DRAWINGS			
C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS	SR-125 PLANS-11232304	
C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS	
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS	
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS	

REVISIONS				REVISIONS			
By	Date	App'd		By	Date	App'd	

Designed By: A.C.G./P.A.A.	Drawn By: P.A.A.	Checked By: Y.C.
Plans Prepared Under Supervision Of: YOLANDA CALVO		
R.C.E. No. 61827		



HUNSAKER & ASSOCIATES
SAN DIEGO, INC.
PLANNING 9707 WAPLES STREET
ENGINEERING San Diego, Ca 92121
SURVEYING PH858558-4500 FX858558-1414

THE CITY OF CHULA VISTA

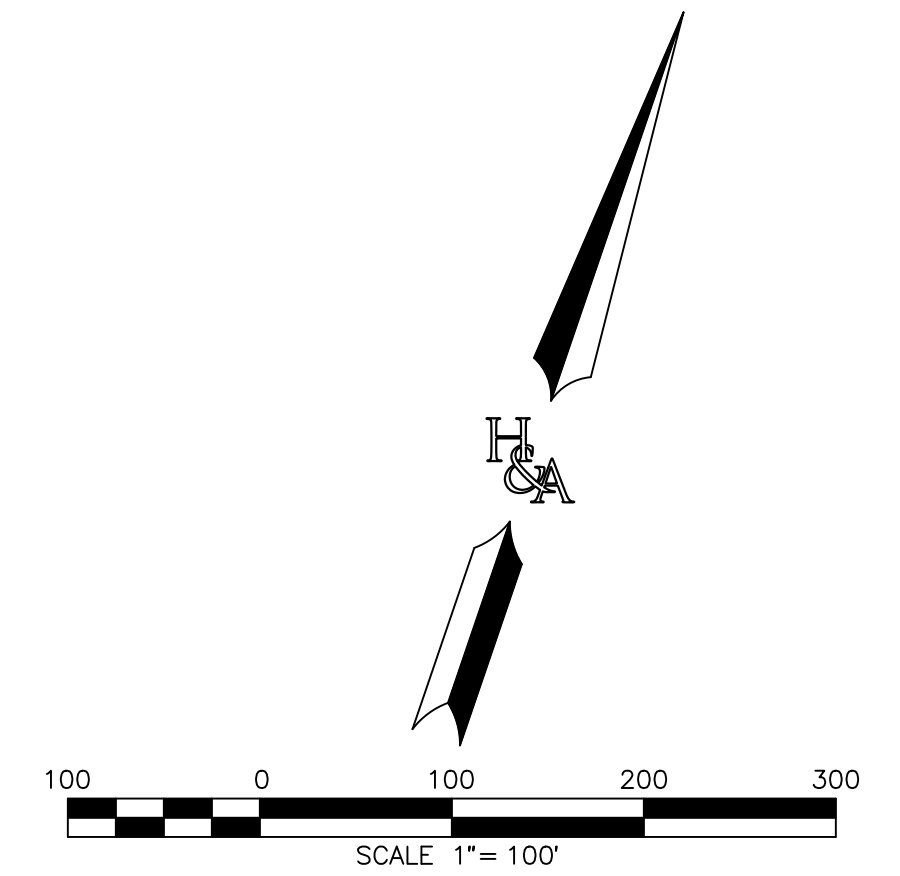
EROSION CONTROL PLANS SHEET FOR OTAY RANCH VILLAGE 8 EAST	
CHULA VISTA TRACT NO. 22-0005	
DEVELOPMENT SERVICES DEPARTMENT	
Approved: _____	ACCELA NO.: XXXX
By: _____ Principal Civil Engineer	PROJECT NO.: XXXX
Submitted: _____	TOTAL SHEETS: 90
By: _____	1796 - 6340
Planning: _____	NAD83 COORDINATES
Landscape: _____	154 - 1773
AS BUILT	
CONTRACTOR: _____	DRAWING NO. G058
INSPECTOR: _____	XXXXX.XXX
DATE COMPLETED: _____	

SEE SHEET 58



LEGEND:

- SUBDIVISION BOUNDARY.....
- PROPERTY LINE.....
- STORM DRAIN.....
- CURB INLET.....
- CLEANOUT.....
- DIRECTION OF FLOW.....
- FIBER ROLLS.....
- GRAVEL BAGS.....
- SILT FENCE.....
- ORANGE BIO FENCE.....
- CONSTRUCTION ENTRANCE.....



SEE SHEET 60

AS BUILT		UTILITY NOTE	
SIGNATURE YOLANDA CALVO	Date	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
My Registration Expires	P.E. No. 61827		
Discipline			
REFERENCE DRAWINGS		REVISIONS	
C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS	SR-125 PLANS-11232304	
C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS	
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS	
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS	

REGISTERED PROFESSIONAL ENGINEER
YOLANDA CALVO
No. 61827
CIVIL
STATE OF CALIFORNIA

H & A
HUNSAKER & ASSOCIATES
SAN DIEGO, INC.


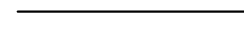
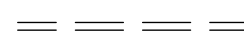
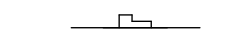

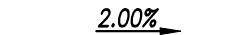





PLANNING 9707 WAPLES STREET
ENGINEERING San Diego, Ca 92121
SURVEYING PH4858558-4500 FX858558-1414

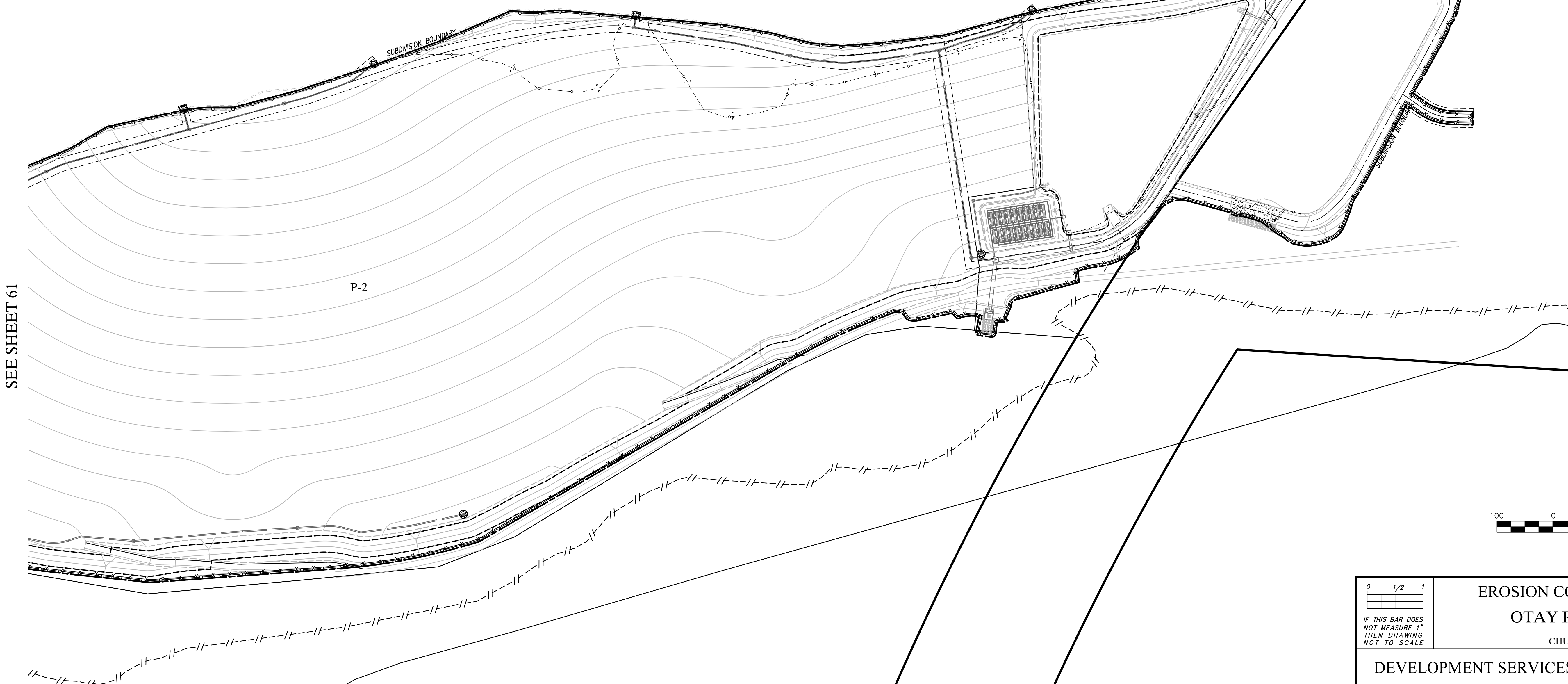
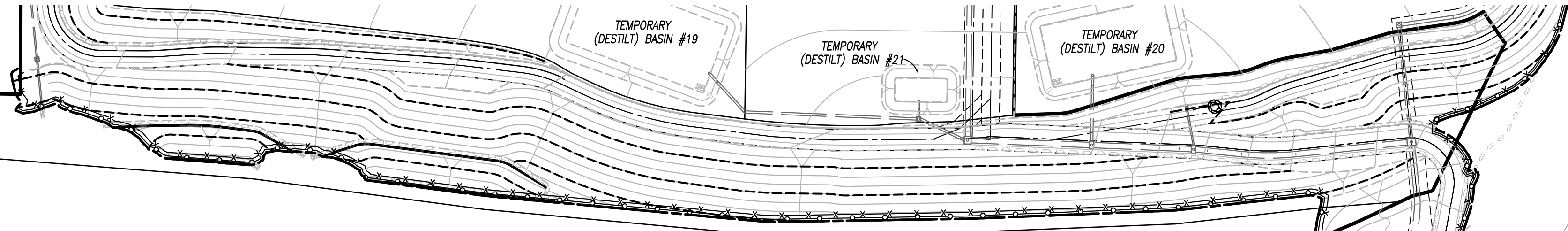
EROSION CONTROL PLANS SHEET FOR	
OTAY RANCH VILLAGE 8 EAST	
CHULA VISTA TRACT NO. 22-0005	
DEVELOPMENT SERVICES DEPARTMENT	
Approved: _____	ACCELA NO.: XXXX
By: _____ Principal Civil Engineer	PROJECT NO.: XXXX
Submitted: _____	TOTAL SHEETS: 90
By: _____	1796 - 6340
Planning: _____	LANDSCAPE: _____
AS BUILT	
CONTRACTOR: _____	DRAWING NO. G059
INSPECTOR: _____	DATE COMPLETED: _____

ROUGH GRADING PLANS FOR OTAY RANCH VILLAGE 8 EAST

SEE SHEET 59

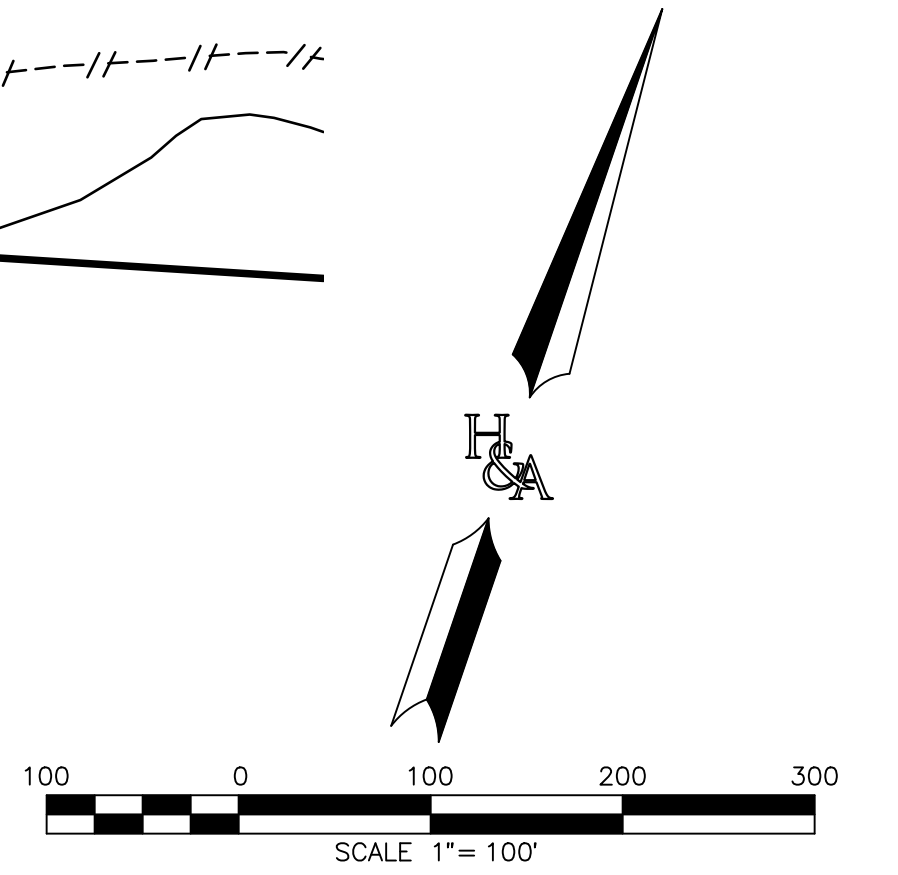
LEGEND:

SUBDIVISION BOUNDARY.....	
PROPERTY LINE.....	
STORM DRAIN.....	
CURB INLET.....	
CLEANOUT.....	
DIRECTION OF FLOW.....	
FIBER ROLLS.....	
GRAVEL BAGS.....	
SILT FENCE.....	
ORANGE BIO FENCE.....	
CONSTRUCTION ENTRANCE.....	

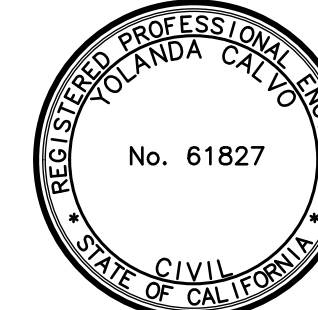


SEE SHEET 61

P-2



EROSION CONTROL PLANS SHEET FOR OTAY RANCH VILLAGE 8 EAST CHULA VISTA TRACT NO. 22-0005	
DEVELOPMENT SERVICES DEPARTMENT	
Approved: _____ By: _____ Submitted: _____ By: _____ Planning: _____ Landscape: _____	ACCELA NO.: XXXX PROJECT NO.: XXXX TOTAL SHEETS: 90 1796 - 6340 NAD83 COORDINATES 154 - 1773 LAMBERT COORDINATES
AS BUILT	
CONTRACTOR: _____ INSPECTOR: _____	DRAWING NO. G060 XXXXX.XXX DATE COMPLETED: _____



HUNSAKER & ASSOCIATES
SAN DIEGO, INC.
PLANNING 9707 WAPLES STREET
ENGINEERING San Diego, Ca 92121
SURVEYING PH4858558-4500 FX858558-1414

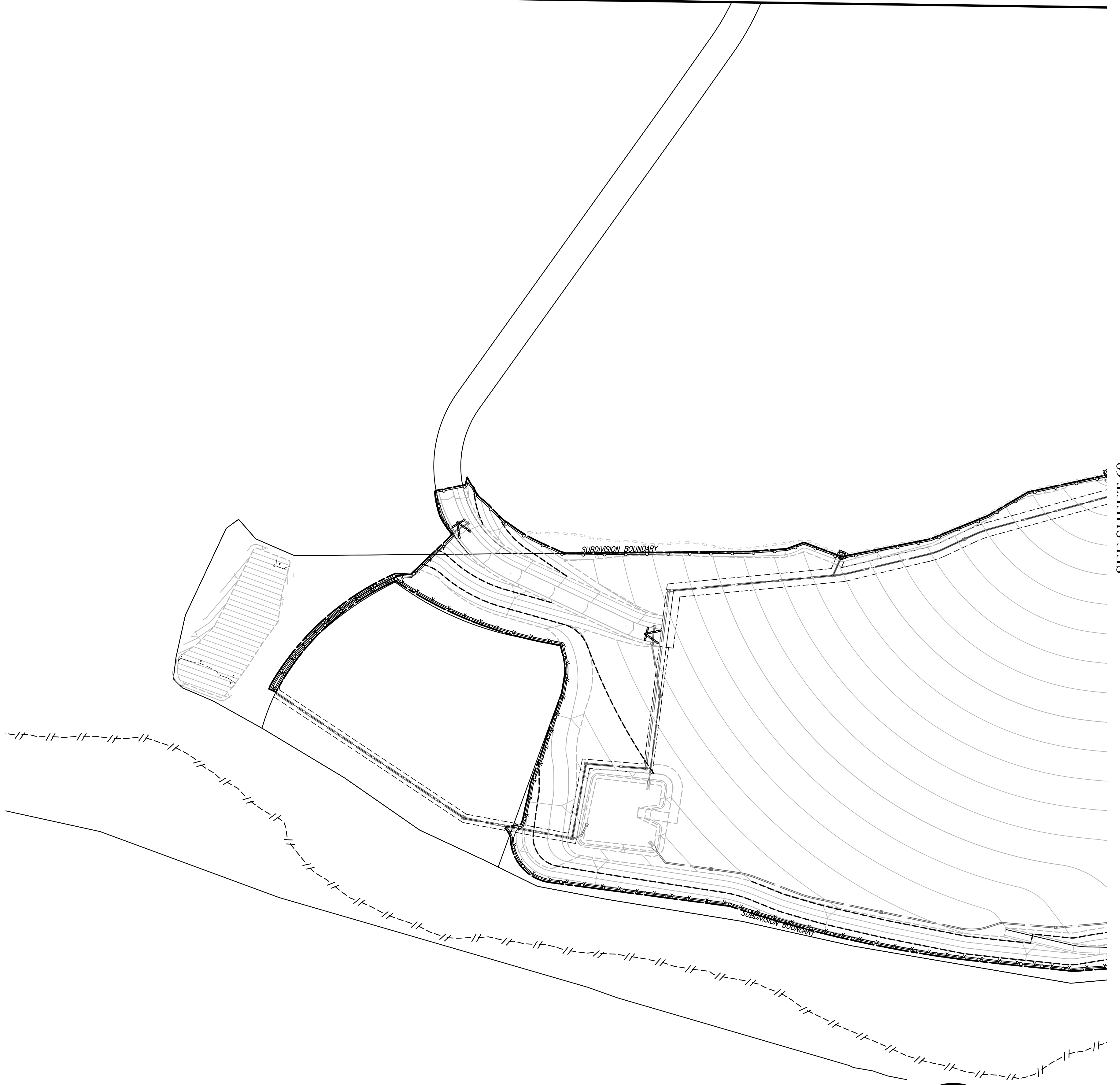
**THE CITY OF
CHULA VISTA**

AS BUILT Date: _____ Signature: YOLANDA CALVO P.E. No. 61827 My Registration Expires: _____ Discipline: _____		UTILITY NOTE ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.
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C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS

Designed By:	Drawn By:	Checked By:
A.C.G./P.A.A.	P.A.A.	Y.C.
Plans Prepared Under Supervision Of:		Date: _____
YOLANDA CALVO		R.C.E. No. 61827

ROUGH GRADING PLANS FOR
OTAY RANCH VILLAGE 8 EAST

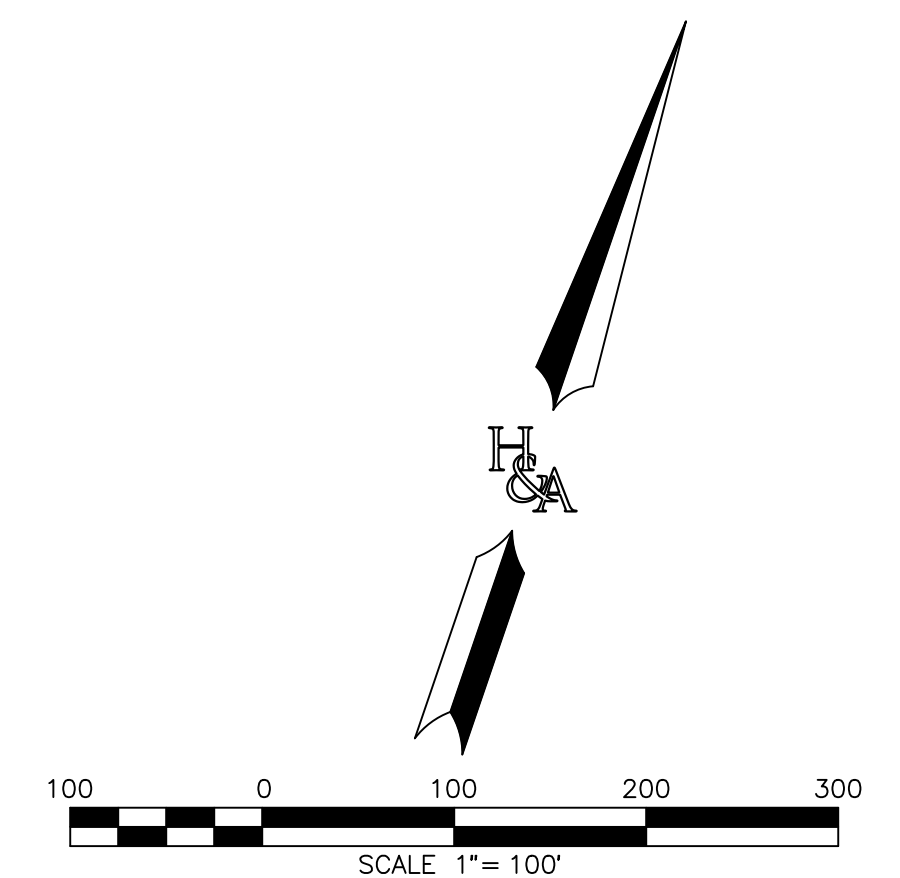
CV 0920\&Eng\Rough Grading\0920RG60
W.O. NO. 2395-0079



LEGEND:

SUBDIVISION BOUNDARY.....	---
PROPERTY LINE.....	---
STORM DRAIN.....	== == ==
CURB INLET.....	— [] —
CLEANOUT.....	== [] ==
DIRECTION OF FLOW.....	2.00%
GRAVEL BAGS.....	○○○○○
SILT FENCE.....	× × × × ×
ORANGE BIO FENCE.....	○ ○ ○ ○ ○
CONSTRUCTION ENTRANCE.....	[]

SEE SHEET 60



EROSION CONTROL PLANS SHEET FOR OTAY RANCH VILLAGE 8 EAST CHULA VISTA TRACT NO. 22-0005	
DEVELOPMENT SERVICES DEPARTMENT	
Approved: _____ By: _____ Submitted: _____ By: _____ Planning: _____ Landscape: _____	ACCELA NO.: XXXX PROJECT NO.: XXXX TOTAL SHEETS: 90 1796 - 6340 NAD83 COORDINATES 154 - 1773 LAMBERT COORDINATES
AS BUILT	
CONTRACTOR: _____ INSPECTOR: _____	DRAWING NO. G061 XXXXX.XXX DATE COMPLETED: _____

REGISTERED PROFESSIONAL ENGINEER
 YOLANDA CALVO
 No. 61827
 CIVIL
 STATE OF CALIFORNIA

HUNSAKER & ASSOCIATES
SAN DIEGO, INC.

PLANNING 9707 WAPLES STREET
ENGINEERING San Diego, Ca 92121
SURVEYING PH8585558-4500 FX8585558-1414

AS BUILT		UTILITY NOTE	
Signature: YOLANDA CALVO	Date: P.E. No. 61827	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
REFERENCE DRAWINGS			
C.V. DWG. NO. 02025-IMP. PLANS	C.V. DWG. NO. 14011-GRADING PLANS	SR-125 PLANS-11232304	
C.V. DWG. NO. 04068-GRADING PLANS	C.V. DWG. NO. 14012-IMP. PLANS	C.V. DWG. NO. 20028-GRADING PLANS	
C.V. DWG. NO. 04078-IMP. PLANS	C.V. DWG. NO. 18016-GRADING PLANS	C.V. DWG. NO. 20029-GRADING PLANS	
C.V. DWG. NO. 04080-IMP. PLANS	C.V. DWG. NO. 19036-IMP. PLANS	C.V. DWG. NO. 22043-GRADING PLANS	

REVISIONS				By	Date	App'd	REVISIONS				By	Date	App'd	Designed By:	Drawn By:	Checked By:
													A.C.G./P.A.A.	P.A.A.	Y.C.	
													Plans Prepared Under Supervision Of: YOLANDA CALVO			
													Date: _____ R.C.E. No. 61827			

**THE CITY OF
CHULA VISTA**

ROUGH GRADING PLANS FOR
OTAY RANCH VILLAGE 8 EAST

C:\REVISED: XXXX\XX\XX
W.O. NO. 2395-0079

ANCHOR VILLAGE 8 EAST RETAINING WALL PLANS

1.0 SCOPE OF WORK

- THE WORK SHALL CONSIST OF FURNISHING AND CONSTRUCTING ANCHOR WALL BLOCK AND MIRAGRID GEGRID REINFORCED SOIL RETAINING WALL SYSTEMS IN ACCORDANCE WITH THIS TECHNICAL SCOPE OF WORK AND IN REASONABLY CLOSE CONFORMITY WITH THE LINES, GRADES AND DIMENSIONS SHOWN ON THE ROUGH GRADING PLAN BY HUNSAKER & ASSOCIATES SAN DIEGO, INC., DATED _____.
- WORK INCLUDED:
- FURNISHING ANCHOR WALL SEGMENTAL CONCRETE FACING AND CAP UNITS AS SHOWN ON THE CONSTRUCTION DRAWINGS.
- FURNISHING STRUCTURAL GEGRID REINFORCEMENT AS SHOWN ON THE CONSTRUCTION DRAWINGS.
- CORNER, CUTTING AND PLACING STRUCTURAL GEGRID REINFORCEMENT AS SPECIFIED HEREIN AND AS SHOWN ON THE CONSTRUCTION DRAWINGS.
- PLACEMENT AND COMPACTION OF UNIT WALL FILL AND BACKFILL WITHIN THE GEGRID REINFORCED AREA AS SPECIFIED HEREIN AND AS SHOWN ON THE CONSTRUCTION DRAWINGS.
- ERECTION OF ANCHOR WALL SEGMENTAL CONCRETE UNITS AND PLACEMENT OF STRUCTURAL GEGRID.

2.0 REFERENCE DOCUMENTATION

- HUNSAKER & ASSOCIATES SAN DIEGO, INC., ROUGH GRADING PLAN, DATED _____.
- GEOTECH. INC., UPDATE GEOTECHNICAL REPORT, DATED MAY 5, 2023.
- WHERE SPECIFICATIONS AND REFERENCE DOCUMENTS CONFLICT, THE ENGINEER SHALL MAKE FINAL DETERMINATION OF THE APPLICABLE DOCUMENT.

3.0 SPECIAL PROVISIONS

- M3 CIVIL ENGINEERING, INC. (M3CE) ASSUMES NO LIABILITY FOR INTERPRETATION OF SUBSURFACE CONDITIONS, SUITABILITY OF SOIL DESIGN PARAMETERS AND SUBSURFACE GROUNDWATER CONDITIONS MADE BY OTHERS.
- M3CE SHALL NOT BE RESPONSIBLE FOR THE COST OF ALL MEANS OF SUBSOIL IMPROVEMENT; COST OF ADDITIONAL SUBSOIL EXPLORATION AND FOR ALL LABOR TOOLS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK. THE OWNER SHALL BE RESPONSIBLE FOR ALL SUCH COST.
- THE OWNER SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE AND LOCAL REQUIREMENTS FOR THE EXECUTION OF THE WORK INCLUDING LOCAL BUILDING INSPECTION AND CURRENT OSHA EXCAVATION REGULATIONS.
- PRIOR TO UNDERTAKING ANY GRADING OR EXCAVATION OF THE SITE, THE CONTRACTOR SHALL CONFIRM THE LOCATION OF THE PROPOSED RETAINING WALLS AND ALL UNDERGROUND FEATURES, INCLUDING UTILITY LOCATIONS WITHIN THE AREA OF CONSTRUCTION.
- M3CE HAS CONSULTED ENGINEERING DESIGN OF THE PROPOSED RETAINING WALL(S), INCLUDING INTERNAL STABILITY AND LOCAL EXTERNAL STABILITY WHERE APPLICABLE, BASED UPON THE INFORMATION PROVIDED TO US AS OUTLINED ABOVE. M3CE ASSUMES THAT OTHERS HAVE DETERMINED THE SUITABILITY OF PLACING RETAINING WALLS AT THE LOCATIONS PROVIDED TO US, INCLUDING GEOTECHNICAL SUITABILITY AND SITE GLOBAL STABILITY.
- SEGMENTAL RETAINING WALLS ARE FLEXIBLE STRUCTURES (VS. RIGID AS IN CMU WALLS) AND ARE SUBJECT TO POST CONSTRUCTION SETTLEMENT AND MOVEMENT. ALL IMPROVEMENTS (I.E. PAVEMENTS, CURBS, TRASH ENCLOSURES, UTILITY LINES ETC.) SHOULD BE DESIGNED TO HANDLE DIFFERENTIAL SETTLEMENT UP TO 1% OF TOTAL WALL HEIGHT.

4.0 GENERAL NOTES

- THIS SET OF SEGMENTAL RETAINING WALL PLANS ARE BASED ON THE PLANS AND DOCUMENTS REFERENCED IN SECTION 2.0. CHANGES TO THESE PLANS OR DOCUMENTS, INCLUDING GRADING, DRAINAGE, UTILITIES, SURCHARGE LOADS OR GEOTECHNICAL PARAMETERS MAY AFFECT WALL DESIGN REQUIREMENTS. M3CE SHALL BE NOTIFIED OF ANY SUCH CHANGES TO DETERMINE IF WALL DESIGN MODIFICATIONS ARE NEEDED.
- THIS SET OF SEGMENTAL RETAINING WALL PLANS ARE BASED SPECIFICALLY ON THE WALL BEING CONSTRUCTED WITH ANCHOR BLOCK AND MIRAGRID REINFORCEMENT PRODUCTS. ABSOLUTELY NO SUBSTITUTIONS ALLOWED.
- LOCATION OF THE SEGMENTAL RETAINING WALL IN RELATION TO PROPERTY LINES, UTILITY EASEMENTS, WATERSHED EASEMENTS, OR ANY OTHER TYPE OF EASEMENTS ARE THE RESPONSIBILITY OF THE OWNER OR THE SITE CIVIL ENGINEER. M3 CIVIL ENGINEERING ASSUMES NO LIABILITY FOR THE LOCATION OF THE SEGMENTAL RETAINING WALL, OR IF CONSTRUCTION OF THE PROPOSED SEGMENTAL RETAINING WALL ENCLOSES ANY PROPERTY LINES OR EASEMENTS.
- IT IS IMPERATIVE THAT THE SITE SURVEYING OF THE SEGMENTAL RETAINING WALL BE DONE BY THE SITE CIVIL ENGINEER OR SURVEYOR AND MUST BE BASED ON COMPUTER GENERATED SITE GRADING PLANS AND NOT PROFILE PLANS DONE BY THE ENGINEER OF RECORD. SURVEYING OF THE SEGMENTAL RETAINING WALL MUST TAKE INTO ACCOUNT THE DESIGN BATTER INDICATED ON THE ENCLOSED PLANS AND DETAILS. FAILURE TO TAKE INTO ACCOUNT WALL BATTER FOR SEGMENTAL RETAINING WALL SURVEYING WILL PRODUCE INCORRECT LOCATIONS OF ALL TOP OF WALLS AND SHALL BE CORRECTED AT NO COST TO THE ENGINEER OF RECORD OR THE SEGMENTAL RETAINING WALL CONTRACTOR.
- WALL GEOMETRY, LOCATIONS, SLOPES AND SURCHARGE LOADS FOR THE SEGMENTAL RETAINING WALLS WERE MEASURED FROM THE GRADING PLAN REFERENCED ABOVE. IF CONDITIONS VARY IN THE FIELD FROM THOSE SHOWN ON THIS PLAN, THE ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO CONSTRUCTION OF THE SEGMENTAL RETAINING WALLS TO REVIEW THE DESIGN AND/OR PLANS. MODIFICATIONS TO THE DESIGN AND/OR PLANS MAY BE REQUIRED AFTER THE REVIEW, AND MAY TAKE UP TO TEN BUSINESS DAYS TO COMPLETE.
- IF THERE ARE DISCREPANCIES BETWEEN ANY INFORMATION ON THESE PLANS AND INFORMATION IN THE PROJECT SPECIFICATIONS, THE MORE RESTRICTIVE INFORMATION TAKES PRECEDENCE.

5.0 SEGMENTAL RETAINING WALL CONTRACTOR QUALIFICATIONS

- THE WALL CONTRACTOR SHALL DOCUMENT COMPLIANCE WITH THE FOLLOWING EXPERIENCE REQUIREMENTS:
 - A MINIMUM OF FIVE YEARS IN WHICH THE CONTRACTOR HAS BUILT SEGMENTAL RETAINING WALLS WITH A TOTAL FACE AREA NO LESS THAN 250,000 SQUARE FEET.
 - CONSTRUCTION OF A MINIMUM OF 25,000 SQUARE FEET WITH THE SPECIFIED ANCHOR BLOCK UNITS.
 - CONSTRUCTION OF AT LEAST FIVE SEGMENTAL RETAINING WALLS OF A SIMILAR HEIGHT AND SIZE AS THOSE SPECIFIED HEREIN.

6.0 MATERIAL NOTES

- CONCRETE RETAINING WALL UNITS: ANCHOR RETAINING WALL UNITS AS SHOWN ON THE DRAWINGS AND AS MANUFACTURED BY SIERRA BUILDING PRODUCTS UNDER LICENSE FROM ANCHOR WALL SYSTEMS.
- GEOSYNTHETIC REINFORCEMENT: MIRAGRID AS SHOWN ON THE DRAWINGS.
- LEVELING PAD BASE
- AGGREGATE BASE: CRUSHED STONE OR GRANULAR FILL MEETING THE FOLLOWING GRADATION AS DETERMINED IN ACCORDANCE WITH ASTM D448:

SIEVE SIZE	PERCENT PASSING
1 INCH	100
3/4 INCH	75 TO 100
NO. 4	0 TO 60
NO. 10	0 TO 50
NO. 200	0 TO 5
- BASE THICKNESS: 6 INCHES (MINIMUM COMPACTED THICKNESS).
- DRAINAGE AGGREGATE: CLEAN CRUSHED STONE OR GRANULAR FILL MEETING THE FOLLOWING GRADATION AS DETERMINED IN ACCORDANCE WITH ASTM D448:

SIEVE SIZE	PERCENT PASSING
1 INCH	100
3/4 INCH	75 TO 100
NO. 4	0 TO 60
NO. 10	0 TO 50
NO. 200	0 TO 5

- REINFORCED FILL: SOIL FREE OF ORGANICS AND DEBRIS AND CONSISTING OF EITHER GP, GW, SP, SW, SM OR SC TYPE. CLASSIFIED IN ACCORDANCE WITH ASTM D2487 AND THE USCS CLASSIFICATION SYSTEM AND MEETING THE FOLLOWING GRADATION AS DETERMINED IN ACCORDANCE WITH ASTM D448:

SIEVE SIZE	PERCENT PASSING
3 INCH	100
1 INCH	75 TO 100
NO. 4	20 TO 100
NO. 40	0 TO 60
NO. 200	0 TO 35

- THE PLASTICITY INDEX (PI) SHALL BE LESS THAN 20.
- MAXIMUM PARTICLE SIZE FOR BACKFILL IS THREE (3) INCHES.
- UNSATURABLE ARE ORGANIC SOILS AND THOSE SOILS CLASSIFIED AS ML, CL, OL, MH, CH, OH OR PT.
- ALL WALL BACKFILL MATERIALS SHALL ALSO HAVE THE MINIMUM ENGINEERING PROPERTIES SHOWN IN SECTION 17.2 ITEM A.
- TEST RESULTS OF ALL PROPOSED BACKFILL MATERIALS, WHETHER ON-SITE OR IMPORTED, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
- DRAINAGE PIPE: PERFORATED OR SLOTTED PVC OR CORRUGATED HDPE PIPE MANUFACTURED IN ACCORDANCE WITH D3034 AND/OR ASTM F405.
- CONSTRUCTION ADHESIVE: EXTERIOR GRADE ADHESIVE AS RECOMMENDED BY THE RETAINING WALL MANUFACTURER.

7.0 FOUNDATION NOTES

- EXCAVATE FOUNDATION SOIL AS REQUIRED FOR FOOTING OR BASE DIMENSION SHOWN ON THE DRAWINGS, OR AS DIRECTED BY THE PROJECT GEOTECHNICAL ENGINEER.
- THE OWNER SHALL RETAIN THE SERVICES OF A GEOTECHNICAL ENGINEER TO EXAMINE FOUNDATION SOIL TO ENSURE THAT THE ACTUAL FOUNDATION SOIL STRENGTH MEETS OR EXCEEDS THAT INDICATED ON THE DRAWINGS. UNSUITABLE SOILS ARE DEFINED AS ANY SOIL THAT DOES NOT HAVE SUFFICIENT BEARING CAPACITY OR WILL CAUSE EXCESSIVE WALL SETTLEMENT. REMOVE SOIL NOT MEETING THE REQUIRED STRENGTH.
- THE OWNER SHALL RETAIN THE SERVICES OF A GEOTECHNICAL ENGINEER TO DETERMINE IF THE FOUNDATION SOILS WILL REQUIRE SPECIAL TREATMENT OR CORRECTION TO CONTROL TOLL AND DIFFERENTIAL SETTLEMENT.
- FILL OVER-EXCAVATED AREAS WITH SUITABLE COMPACTED BACKFILL, AS RECOMMENDED BY THE PROJECT GEOTECHNICAL ENGINEER.

8.0 BASE COURSE NOTES

- PLACE BASE MATERIALS TO THE DEPTHS AND WIDTHS SHOWN ON THE DRAWINGS, UPON UNDISTURBED SOILS, OR FOUNDATION SOILS PREPARED AS DIRECTED BY THE PROJECT GEOTECHNICAL ENGINEER.
- EXTEND THE LEVELING PAD LATERSLALLY AT LEAST 6 INCHES IN FRONT AND BEHIND THE LOWERMOST CONCRETE RETAINING WALL UNIT.
- PROVIDE AGGREGATE BASE COMPACTED TO 6 INCHES THICK (MINIMUM).
- COMPACT AGGREGATE BASE MATERIAL TO PROVIDE A LEVEL, HARD SURFACE ON WHICH TO PLACE THE FIRST COURSE OF UNITS. PREPARE BASE MATERIALS TO ENSURE COMPLETE CONTACT WITH RETAINING WALL UNITS. GAPS ARE NOT ALLOWED.

9.0 ERECTION NOTES

- EXCAVATION SUPPORT, IF REQUIRED, IS THE RESPONSIBILITY OF THE CONTRACTOR, INCLUDING THE STABILITY OF THE EXCAVATION AND ITS INFLUENCE ON ADJACENT PROPERTIES AND STRUCTURES.
- GENERAL: ERECT UNITS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS, AND AS SPECIFIED HEREIN.
- PLACE FIRST COURSE OF CONCRETE WALL UNITS ON THE PREPARED BASE MATERIAL. CHECK UNITS FOR LEVEL AND ALIGNMENT. MAINTAIN THE SAME ELEVATION AT THE TOP OF EACH UNIT WITHIN EACH SECTION OF THE BASE COURSE. ENSURE THAT FOUNDATION UNITS ARE IN FULL CONTACT WITH NATURAL OR COMPACTED SOIL BASE.
- PLACE CONCRETE WALL UNITS SIDE-BY-SIDE FOR FULL LENGTH OF WALL ALIGNMENT. ALIGNMENT MAY BE DONE BY USING A STRING LINE MEASURED FROM THE BACK OF THE BLOCK. GAPS ARE NOT ALLOWED BETWEEN THE FOUNDATION CONCRETE WALL UNITS.
- PLACE 12 INCHES (MINIMUM) OF DRAINAGE AGGREGATE BETWEEN AND DIRECTLY BEHIND THE CONCRETE WALL UNITS. FILL VOIDS IN RETAINING WALL UNITS WITH DRAINAGE AGGREGATE. PROVIDE A DRAINAGE ZONE BEHIND THE WALL UNITS TO WITHIN 9 INCHES OF THE FINAL GRADE. CAP THE BACKFILL AND DRAINAGE AGGREGATE ZONE WITH 9 INCHES OF IMPERVIUS MATERIAL.
- INSTALL DRAINAGE PIPE AT THE LOWEST ELEVATION POSSIBLE, TO MAINTAIN GRAVITY FLOW OF WATER TO OUTSIDE OF THE REINFORCED ZONE. PLACE THE GEOSYNTHETIC REINFORCEMENT WITHIN ONE INCH OF THE FACE OF THE CONCRETE RETAINING WALL UNITS. 1 PERCENT (MINIMUM) TO PROVIDE GRAVITY FLOW TO THE DAYLIGHTED AREAS. DAYLIGHT THE MAIN COLLECTION DRAINAGE PIPE TO AN APPROPRIATE LOCATION AWAY FROM THE WALL SYSTEM AS SHOWN ON THE WALL PLANS.
- REMOVE EXCESS FILL FROM TOP OF UNITS AND INSTALL NEXT COURSE. ENSURE DRAINAGE AGGREGATE AND BACKFILL ARE COMPACTED BEFORE INSTALLATION OF NEXT COURSE.
- CHECK EACH COURSE FOR LEVEL AND ALIGNMENT. ADJUST UNITS AS NECESSARY WITH REINFORCEMENT SHIMS TO MAINTAIN LEVEL, ALIGNMENT, AND SETBACK PRIOR TO PROCEEDING WITH EACH ADDITIONAL COURSE.
- INSTALL EACH SUCCEEDING COURSE. BACKFILL AS EACH COURSE IS COMPLETED. PULL THE UNITS FORWARD UNTIL THE LOCATING SURFACE OF THE UNIT CONTACTS THE LOCATING SURFACE OF THE UNITS IN THE PRECEDING COURSE. INTERLOCK WALL SEGMENTS THAT MEET AT CORNERS BY OVERLAPPING SUCCESSIVE COURSES. ATTACH CONCRETE RETAINING WALL UNITS AT EXTERIOR CORNERS WITH ADHESIVE SPECIFIED.
- INSTALL GEOSYNTHETIC REINFORCEMENT IN ACCORDANCE WITH GEOSYNTHETIC MANUFACTURER'S RECOMMENDATIONS AND THE SHOP DRAWINGS.
 - ORIENT GEOSYNTHETIC REINFORCEMENT WITH THE HIGHEST STRENGTH AXIS PERPENDICULAR TO THE WALL FACE.
 - PRIOR TO GEOSYNTHETIC REINFORCEMENT PLACEMENT, PLACE THE BACKFILL AND COMPACT TO THE ELEVATION OF THE TOP OF THE WALL UNITS AT THE ELEVATION OF THE GEOSYNTHETIC REINFORCEMENT.
 - PLACE GEOSYNTHETIC REINFORCEMENT AT THE ELEVATIONS AND TO THE LENGTHS SHOWN ON THE DRAWINGS.
 - LAY GEOSYNTHETIC REINFORCEMENT HORIZONTALLY ON TOP OF THE CONCRETE RETAINING WALL UNITS AND THE COMPACTED BACKFILL SOILS. PLACE THE GEOSYNTHETIC REINFORCEMENT WITHIN ONE INCH OF THE FACE OF THE CONCRETE RETAINING WALL UNITS. PLACE THE NEXT COURSE OF CONCRETE RETAINING WALL UNITS ON TOP OF THE GEOSYNTHETIC REINFORCEMENT.
 - THE GEOSYNTHETIC REINFORCEMENT SHALL BE IN TENSION AND FREE FROM WRINKLES PRIOR TO PLACEMENT OF THE BACKFILL SOILS. PULL GEOSYNTHETIC REINFORCEMENT HAND-TAUT AND SECURE IN PLACE WITH STAPLES, STAKES, OR BY HAND-TENSIONING UNTIL THE GEOSYNTHETIC REINFORCEMENT IS COVERED BY 6 INCHES OF LOOSE FILL.
 - THE GEOSYNTHETIC REINFORCEMENTS SHALL BE CONTINUOUS THROUGHOUT THEIR EMBEDMENT LENGTHS. SPLICES IN THE GEOSYNTHETIC REINFORCEMENT STRENGTH DIRECTION ARE NOT ALLOWED.
 - DO NOT OPERATE TRACKED CONSTRUCTION EQUIPMENT DIRECTLY ON THE GEOSYNTHETIC REINFORCEMENT. AT LEAST 6 INCHES OF COMPACTED BACKFILL SOIL IS REQUIRED PRIOR TO OPERATION OF TRACKED VEHICLES OVER THE GEOSYNTHETIC REINFORCEMENT. KEEP TURNING OF TRACKED CONSTRUCTION EQUIPMENT TO A MINIMUM.
 - RUBBER-TIRED EQUIPMENT MAY PASS OVER THE GEOSYNTHETIC REINFORCEMENT AT SPEEDS OF LESS THAN 5 MILES PER HOUR. TURNING OF RUBBER-TIRED EQUIPMENT IS NOT ALLOWED ON GEOSYNTHETIC REINFORCEMENT.

10.0 BACKFILL PLACEMENT NOTES

- PLACE REINFORCED BACKFILL, SPREAD AND COMPACT IN A MANNER THAT WILL MINIMIZE SLACK IN THE REINFORCEMENT.
- PLACE FILL WITHIN THE REINFORCED ZONE AND COMPACT IN LIFTS NOT EXCEEDING 6 TO 8 INCHES (LOOSE THICKNESS) WHERE HAND-OPERATED COMPACTION EQUIPMENT IS USED, AND NOT EXCEEDING 12 INCHES (LOOSE THICKNESS) WHERE HEAVY, SELF PROPELLED COMPACTION EQUIPMENT IS USED.
 - ONLY LIGHTWEIGHT HAND-OPERATED COMPACTION EQUIPMENT IS ALLOWED WITHIN 4 FEET OF THE BACK OF THE RETAINING WALL UNITS.
 - MINIMUM COMPACTION REQUIREMENTS FOR FILL PLACED IN THE REINFORCED ZONE:
 - COMPACT TO 90 PERCENT OF THE SOIL'S STANDARD MAXIMUM DRY DENSITY (ASTM D1557) FOR THE ENTIRE WALL HEIGHT.
 - VERIFY COMPACTION REQUIREMENTS WITH THE PROJECT GEOTECHNICAL ENGINEER.
 - UTILITY TRENCH BACKFILL: COMPACT UTILITY TRENCH BACKFILL IN OR BELOW THE REINFORCED SOIL ZONE TO 90 PERCENT OF THE SOIL'S STANDARD MAXIMUM DRY DENSITY (ASTM D1557), OR AS RECOMMENDED BY THE PROJECT GEOTECHNICAL ENGINEER.
 - MOISTURE CONTENT: AT OR 2 PERCENTAGE POINTS ABOVE THE OPTIMUM MOISTURE CONTENT FOR ALL WALL HEIGHTS.
 - THESE NOTES MAY BE CHANGED BASED ON RECOMMENDATIONS BY THE PROJECT GEOTECHNICAL ENGINEER.
- AT THE END OF EACH DAY'S OPERATION, SLOPE THE LAST LEVEL OF COMPACTED BACKFILL AWAY FROM THE INTERIOR (CONCEALED) FACE OF THE WALL TO DIRECT SURFACE WATER RUNOFF AWAY FROM THE WALL FACE.
 - THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE FINISHED SITE DRAINAGE IS DIRECTED AWAY FROM THE RETAINING WALL SYSTEM.
 - IN ADDITION, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT SURFACE WATER RUNOFF FROM ADJACENT CONSTRUCTION AREAS IS NOT ALLOWED TO ENTER THE RETAINING WALL AREA OF THE CONSTRUCTION SITE.
 - ANY STRUCTURAL FILL PLACED MUST BE KEPT FROM FREEZING, REQUIRING THE USE OF FROST BLANKETS AND GOOD WINTER CONSTRUCTION PRACTICES. GENERALLY, WINTER CONSTRUCTION REQUIRES THE IMPORT OF NON-FROST SUSCEPTIBLE SOILS, TYPICALLY CLEAN SAND AND/OR GRAVEL. ANY STRUCTURAL FILL FOUND TO BE FROZEN ON SUBSEQUENT DAYS OF CONSTRUCTION MUST BE REMOVED AND REPLACED PRIOR TO PLACING ADDITIONAL FILL.

11.0 CAP UNIT INSTALLATION NOTES

- APPLY ADHESIVE TO THE TOP SURFACE OF THE UNIT BELOW AND PLACE THE CAP UNIT INTO DESIRED POSITION.
- CUT CAP UNITS AS NECESSARY TO OBTAIN THE PROPER FIT.
- BACKFILL AND COMPACT TO TOP OF CAP UNIT.

12.0 WALL CONSTRUCTION TOLERANCE NOTES

- WALL CONSTRUCTION TOLERANCES:
 - VERTICAL ALIGNMENT: PLUS OR MINUS 1-1/4 INCHES OVER ANY 10-FOOT DISTANCE, WITH A MAXIMUM DIFFERENTIAL OF 3 INCHES OVER THE LENGTH OF THE WALL.
 - HORIZONTAL LOCATION CONTROL FROM GRADING PLAN:
 - STRAIGHT LINES: PLUS OR MINUS 1-1/4 INCHES OVER ANY 10-FOOT DISTANCE, WITH A MAXIMUM DIFFERENTIAL OF 3 INCHES OVER THE LENGTH OF THE WALL.
 - CORNER AND RADIUS LOCATIONS: PLUS OR MINUS 1/2 INCHES.
 - CURVES AND SERPENTINE RADII: PLUS OR MINUS 2 FEET.
 - IMMEDIATE POST CONSTRUCTION WALL BATTER: WITHIN 2 DEGREES OF THE DESIGN BATTER OF THE CONCRETE RETAINING WALL UNITS.
 - BULGINS: PLUS OR MINUS 1-1/4 INCHES OVER ANY 10-FOOT DISTANCE.

13.0 UTILITY NOTES

- UTILITY INFORMATION MAY NOT HAVE BEEN PROVIDED TO THE ENGINEER OF RECORD FOR THE PREPARATION OF THESE PLANS, AND THEREFORE MAY NOT BE INCLUDED. IF UTILITIES ARE LOCATED WITHIN THE PROPOSED REINFORCED ZONE THE ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO CONSTRUCTION OF THE SEGMENTAL RETAINING WALLS TO REVIEW THE DESIGN AND/OR PLANS. MODIFICATIONS TO THE DESIGN AND/OR PLANS MAY BE REQUIRED, AND MAY TAKE UP TO TEN BUSINESS DAYS.
- UTILITIES MUST BE PROPERLY DESIGNED (BY OTHERS) TO WITHSTAND ALL FORCES FROM THE SEGMENTAL RETAINING WALL UNITS, REINFORCED SOIL MASS, AND SURCHARGE LOADS (IF ANY).
- STORM DRAINS ARE PRONE TO LEAKING, THEREFORE, IF A JOINT IN A STORM DRAIN IS LOCATED WITHIN 100 FEET OF THE RETAINING WALL, THE STORM WATER PIPE MUST BE WATER TIGHT. NEOPRENE O-RINGS MUST BE INSTALLED AT ALL STORM PIPE JOINTS AS A MINIMUM.
- WATER LINES, INCLUDING IRRIGATION SYSTEMS, MUST BE WATER TIGHT WITHIN 100 FEET OF THE RETAINING WALL. LEAKAGE BEHIND A RETAINING WALL WILL INCREASE THE HORIZONTAL PRESSURE AGAINST THE WALL LEADING TO WALL FAILURE. FOR THIS REASON, SUBSURFACE WATER LINES AND IRRIGATION SYSTEMS SHOULD NOT BE INSTALLED ABOVE THE REINFORCED ZONES OF THE RETAINING WALL OR WITHIN 5 FEET OF THE REINFORCED ZONE.

14.0 FIELD QUALITY CONTROL AND QUALITY ASSURANCE NOTES

- INSTALLER IS RESPONSIBLE FOR QUALITY CONTROL OF INSTALLATION OF SYSTEM COMPONENTS.
- THE OWNER SHALL EMPLOY AN INDEPENDENT THIRD PARTY SPECIAL INSPECTOR IN SEGMENTAL RETAINING WALL CONSTRUCTION TO PERFORM QUALITY ASSURANCE VERIFICATION OF THE CORRECT INSTALLATION OF SYSTEM COMPONENTS IN ACCORDANCE WITH THESE SPECIFICATIONS AND THE DRAWINGS.
- CORRECT WORK WHICH DOES NOT MEET THESE SPECIFICATIONS OR THE REQUIREMENTS SHOWN ON THE DRAWINGS AT THE INSTALLER'S EXPENSE.
- PROJECT GEOTECHNICAL ENGINEER TO PERFORM COMPACTION TESTING OF THE REINFORCED BACKFILL PLACED AND COMPACTED IN THE REINFORCED BACKFILL ZONE.
 - TESTING FREQUENCY (OR AS DIRECTED BY PROJECT GEOTECHNICAL ENGINEER)
 - ONE TEST FOR EVERY 2 FEET (VERTICAL) OF FILL PLACED AND COMPACTED, FOR EVERY 50 LINEAL FEET OF RETAINING WALL.
 - VARY COMPACTION TEST LOCATIONS TO COVER THE ENTIRE AREA OF THE REINFORCED SOIL ZONE, INCLUDING THE AREA COMPACTED BY THE HAND-OPERATED COMPACTION EQUIPMENT.
- PROJECT GEOTECHNICAL ENGINEER TO TEST ALL SOIL PROPOSED FOR USE IN THE SEGMENTAL RETAINING WALL CONSTRUCTION, INCLUDING SOIL IN THE FOUNDATION, RETAINED AND REINFORCED ZONE OF THE WALLS, TO VERIFY COMPLIANCE WITH THE MATERIAL SPECIFICATIONS AND ENGINEERING PROPERTIES.

15.0 STATEMENT OF SPECIAL INSPECTIONS

- SPECIAL INSPECTION IS REQUIRED IN ACCORDANCE WITH CBC SECTION 1705.4.
- SPECIAL INSPECTION WORK IS TO BE PERFORMED BY THE PROJECT GEOTECHNICAL ENGINEER.
- THE SPECIAL INSPECTOR'S RESPONSIBILITIES INCLUDE VERIFYING THE FOLLOWING:
 - UNIT DIMENSIONS.
 - ANCHOR WALL UNIT IDENTIFICATION OF COMPLIANCE WITH ASTM C 1372, INCLUDING COMPRESSIVE STRENGTH AND WATER ABSORPTION, AS DESCRIBED IN SECTION 3.1 OF ICC REPORT 1959.
 - FOUNDATION PREPARATION.
 - UNIT PLACEMENT, INCLUDING ALIGNMENT AND INCLINATION.
 - GEOSYNTHETIC REINFORCEMENT TYPE AND PLACEMENT.
 - BACKFILL PLACEMENT AND COMPACTION.
 - DRAINAGE PROVISIONS.
 - TYPE AND EXTENT OF SPECIAL INSPECTION:
 - SPECIAL INSPECTION OF SOIL BACKFILL SHALL BE PERFORMED ON A CONTINUOUS BASIS. ALL OTHER SPECIAL INSPECTION SHALL BE ON A PERIODIC BASIS.
 - TYPE AND EXTENT OF EACH TEST:
 - MODULAR UNIT DIMENSION SHALL BE VERIFIED ONCE PER WALL PRIOR TO THE START OF CONSTRUCTION.
 - CONCRETE UNIT SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI AND A MAXIMUM WATER ABSORPTION OF 7 PERCENT.
 - FOUNDATION PREPARATION SHALL BE INSPECTED FOR COMPLIANCE WITH THE ANCHOR RETAINING WALL DESIGN PARAMETERS AND GEOTECHNICAL ENGINEER OF RECORD RECOMMENDATIONS ONCE PER WALL PRIOR TO PLACEMENT OF CONTROLLED FILL.
 - ANCHOR UNIT ALIGNMENT AND INCLINATION SHALL BE VERIFIED BY SURVEYED WALL HORIZONTAL LOCATION PRIOR TO CONSTRUCTION AND CORRECT BLOCK PLACEMENT AGAINST THE LOWER BLOCK'S ALIGNMENT DEVICE DURING CONSTRUCTION.
 - GEOSYNTHETIC REINFORCEMENT TYPE SHALL BE VERIFIED PRIOR TO CONSTRUCTION WITH AN INSPECTION OF THE GEOSYNTHETIC REINFORCEMENT DELIVERED TO THE SITE FOR WALL CONSTRUCTION. PLACEMENT OF GEOSYNTHETIC REINFORCEMENT SHALL BE CONTINUOUSLY OBSERVED DURING WALL CONSTRUCTION FOR COMPLIANCE WITH THE ANCHOR RETAINING WALL PLANS.
 - BACKFILL SOIL SHALL BE VERIFIED IN COMPLIANCE WITH THE ANCHOR RETAINING WALL PLANS AND SOIL DESIGN PARAMETERS PRIOR TO AND PERIODICALLY DURING CONSTRUCTION. BACKFILL SOIL COMPACTION SHALL BE CONTINUOUSLY VERIFIED COMPACTED TO AT LEAST 90 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 1557 FOR EVERY 20-40 YARDS OF BACKFILL PLACED.
 - ALL DRAINAGE PROVISIONS SHALL BE VERIFIED IN COMPLIANCE WITH THE ANCHOR RETAINING WALL PLANS AND THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER OF RECORD AS CONSTRUCTED AND PRIOR TO BACKFILL.
 - SEISMIC OR WIND RESISTANCE.
 - THERE ARE NO ADDITIONAL SPECIAL INSPECTION REQUIREMENTS FOR SEISMIC OR WIND RESISTANCE PER CBC 1705.
 - STRUCTURAL OBSERVATIONS.
 - THERE ARE NO REQUIRED STRUCTURAL OBSERVATIONS PER CBC 1704.6.
 - SPECIAL INSPECTION NOTES:
 - THE SPECIAL INSPECTIONS IDENTIFIED ON PLANS ARE IN ADDITION TO, AND NOT A SUBSTITUTE FOR, THOSE INSPECTIONS REQUIRED TO BE PERFORMED BY THE BUILDING INSPECTOR.

16.0 SUBMITTALS

- THE GEOTECHNICAL ENGINEER SHALL SUBMIT VERIFICATION TO M3 CIVIL ENGINEERING PRIOR TO THE START OF SEGMENTAL WALL CONSTRUCTION THAT ALL SOILS PROPOSED FOR CONSTRUCTION MEET THE REQUIREMENTS OF THIS SPECIFICATION.

17.0 ANCHOR WALL DESIGN NOTES

- IT IS THE RESPONSIBILITY OF THE OWNER OR OWNER'S REPRESENTATIVE TO VERIFY THE SOIL STRENGTH DESIGN PARAMETERS ARE REPRESENTATIVE OF THE SOILS AVAILABLE FOR WALL CONSTRUCTION. IF THE SOIL STRENGTH PARAMETERS ARE FOUND TO BE INCONSISTENT WITH THOSE USED BY THE ENGINEER OF RECORD, THIS DESIGN IS NO LONGER VALID AND IT IS THE RESPONSIBILITY OF THE OWNER OR OWNER'S REPRESENTATIVE TO NOTIFY THE ENGINEER OF RECORD SO THE RETAINING WALL SYSTEM CAN BE REDESIGNED. FAILURE TO NOTIFY THE ENGINEER OF RECORD MAY RESULT IN FAILURE OF THE RETAINING WALL.
 - SOIL DESIGN PARAMETERS:

REINFORCED SOIL:	PHI = 30 DEGREES	C= 0 PSF	GAMMA = 125 PCF
RETAINED SOIL:	PHI = 30 DEGREES	C= 0 PSF	GAMMA = 125 PCF
FOUNDATION SOIL:	PHI = 30 DEGREES	C= 0 PSF	GAMMA = 125 PCF
 - DESIGN PEAK GROUND ACCELERATION (2/3PGam PER 2002 CBC AND ASCE 7-22): 0.2g
 - REINFORCED BACKFILL SHALL MEET SOIL CLASSIFICATION, GRADATION AND PLASTICITY INDEX AS STATED IN SECTION 6.5 THIS SHEET
 - GEOTECHNICAL PARAMETERS USED FOR DESIGN SHALL BE CONFIRMED BY GEOTECHNICAL ENGINEER PRIOR TO WALL CONSTRUCTION.
 - LATERAL EARTH PRESSURES ARE DETERMINED USING RANKINE EARTH PRESSURE THEORY
 - INTERNAL STABILITY OF WALL:
 - MINIMUM FACTOR OF SAFETY ON GEOGRID STRENGTH = 1.50
 - MINIMUM FACTOR OF SAFETY ON GEOGRID PULLOUT = 1.50
 - PERCENT COVERAGE OF GEOGRID = 100%
 - EXTERNAL STABILITY:
 - MINIMUM FACTOR OF SAFETY AGAINST BASE SLIDING = 1.50
 - MINIMUM FACTOR OF SAFETY AGAINST OVERTURNING = 2.00
 - MINIMUM FACTOR OF SAFETY AGAINST SOIL BEARING OVERSTRESS = 2.00
 - UNIFORM SURCHARGE = AS SHOWN ON STRUCTURAL CALCULATIONS
 - BACKFILL SLOPE = AS SHOWN ON SITE PLAN AND STRUCTURAL CALCULATIONS
 - GLOBAL STABILITY (TO BE CONFIRMED BY GEOTECHNICAL ENGINEER)
 - MINIMUM FACTOR OF SAFETY AGAINST STATIC GLOBAL STABILITY = 1.50
 - MINIMUM FACTOR OF SAFETY AGAINST SEISMIC GLOBAL STABILITY = 1.15

18.0 ICC REPORT

ANCHOR WALL SYSTEM ICC-ES REPORT ESR-1959

19.0 APPLICABLE BUILDING CODE

ALL CONSTRUCTION SHALL CONFORM TO THE 2022 CALIFORNIA BUILDING CODE

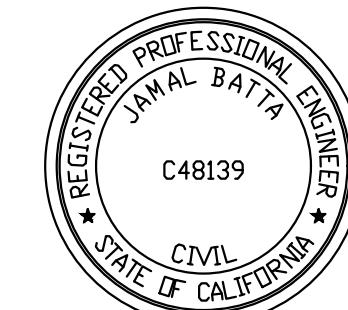
20.0 SHEET INDEX

- | | |
|------------|-----------------------------|
| SHEET G062 | TITLE SHEET AND NOTES |
| SHEET G063 | ANCHOR WALL #1 PLAN VIEW |
| SHEET G064 | ANCHOR WALL #2 PLAN VIEW |
| SHEET G065 | ANCHOR WALL #3 PLAN VIEW |
| SHEET G063 | ANCHOR WALL #4-#7 PLAN VIEW |
| SHEET G063 | ANCHOR WALL #8 PROFILE |
| SHEET G065 | ANCHOR WALL #1 PROFILE |
| SHEET G066 | ANCHOR WALL #1 PROFILE |
| SHEET G067 | ANCHOR WALL #1 PROFILE |
| SHEET G068 | ANCHOR WALL #1 PROFILE |
| SHEET G069 | ANCHOR WALL #1 PROFILE |
| SHEET G070 | ANCHOR WALL #1 PROFILE |
| SHEET G071 | ANCHOR WALL #1 PROFILE |
| SHEET G072 | ANCHOR WALL #1 PROFILE |
| SHEET G073 | ANCHOR WALL #2 PROFILE |
| SHEET G074 | ANCHOR WALL #2 PROFILE |
| SHEET G075 | ANCHOR WALL #2 PROFILE |
| SHEET G076 | ANCHOR WALL #2 PROFILE |
| SHEET G077 | ANCHOR WALL #2 PROFILE |
| SHEET G078 | ANCHOR WALL #3 PROFILE |
| SHEET G079 | ANCHOR WALL #3 PROFILE |
| SHEET G080 | ANCHOR WALL #3 PROFILE |
| SHEET G081 | ANCHOR WALL #4 PROFILE |
| SHEET G082 | ANCHOR WALL #5 PROFILE |
| SHEET G083 | ANCHOR WALL #6 PROFILE |
| SHEET G084 | ANCHOR WALL #7 PROFILE |
| SHEET G085 | TYPICAL WALL SECTION |
| SHEET G086 | CONSTRUCTION DETAILS |

ANCHOR RETAINING WALL DESIGNED FOR INTERNAL AND EXTERNAL STABILITY ONLY. GEOTECHNICAL ENGINEER OF RECORD TO CONFIRM SITE GLOBAL STABILITY.

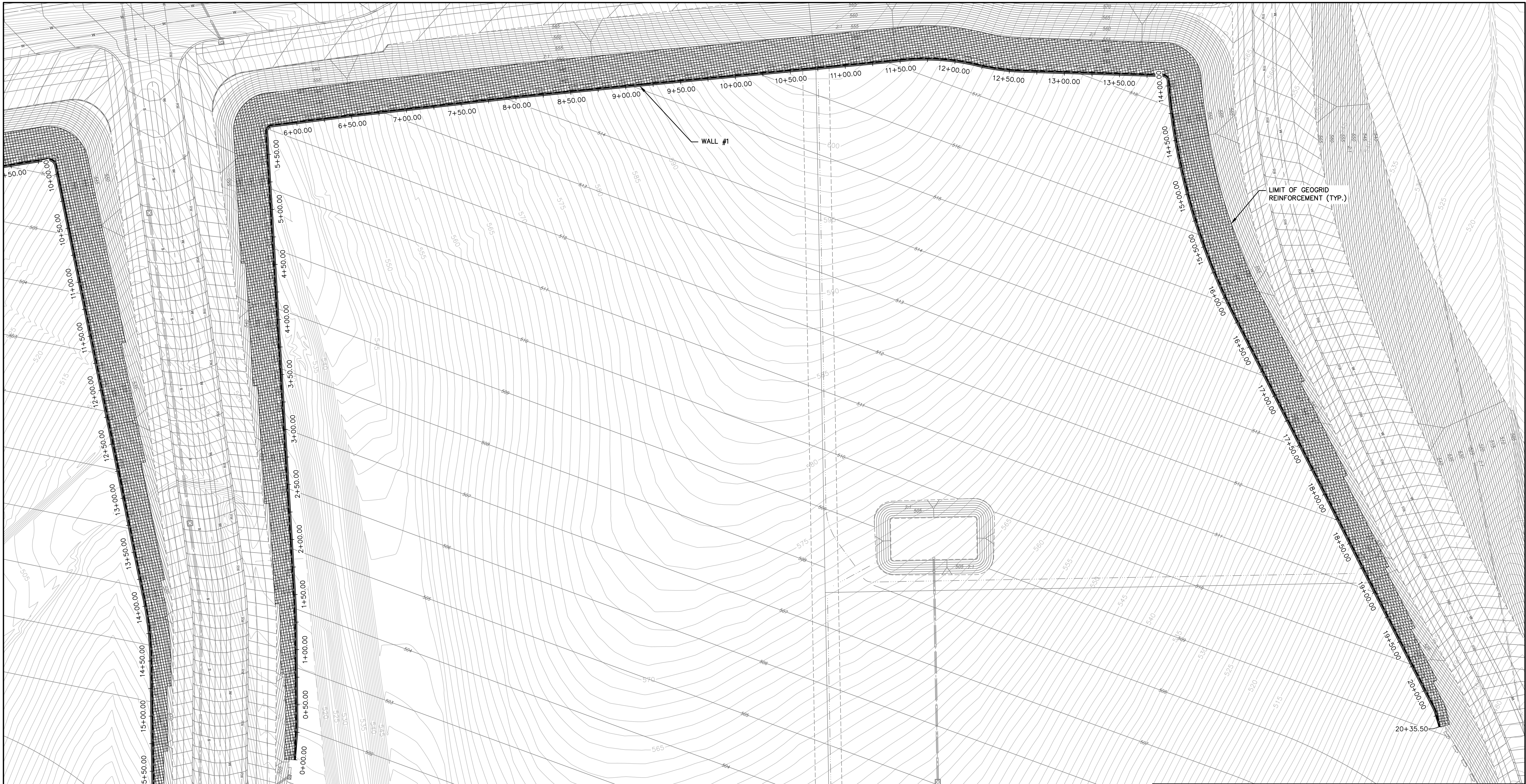
RETAINING WALL PLAN SHEET FOR		OTAY RANCH VILLAGE 8 EAST	
CHULA VISTA TRACT NO. 22-0005			
DEVELOPMENT SERVICES DEPARTMENT		ACCELA NO.: XXXX	
		PROJECT NO.: XXXX	
Approved: _____		TOTAL SHEETS: 14	
By: _____ Principal Civil Engineer		1796 – 6340	
Submitted: _____		NAD83 COORDINATES	
By: _____		154 – 1773	
Planning: _____		LAMBERT COORDINATES	
Landscape: _____			
AS BUILT			DRAWING NO.
CONTRACTOR: _____			G062
INSPECTOR: _____			XXXXX.XXX
DATE COMPLETED: _____			

AS BUILT		UTILITY NOTE	
SIGNATURE _____	Date _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
Printed Name _____	P.E. No. _____		
My Registration Expires _____	Discipline _____		
REFERENCE DRAWINGS	REVISIONS	By	Date
C.V. DWG. NO. _____			



THE CITY OF CHULA VISTA

Designed By:	Drawn By:	Checked By:
MMM	MMM	MMM
Plans Prepared Under Supervision Of: _____		Date: _____
MATTHEW M. MERRITT		R.C.E. No. 68429



ANCHOR RETAINING WALL PLANS FOR OTAY RANCH VILLAGE 8 EAST

CONSTRUCTION NOTES

1. GRADING PLAN LINES, GRADES AND ELEVATIONS ARE SHOWN FOR REFERENCE ONLY. PLEASE SEE PROJECT GRADING PLAN FOR SITE INFORMATION.
2. GENERAL CONTRACTOR/DEVELOPER AND THE RETAINING WALL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL SUBTERRANEAN CONSTRUCTION WITHIN THE REINFORCED ZONE. M3 CIVIL ENGINEERING, INC. SHALL BE CONSULTED PRIOR TO ANY EXCAVATION WITHIN THE REINFORCED ZONE. ALL EFFORTS SHALL BE MADE TO COORDINATE INSTALLATION OF SUBTERRANEAN FEATURES DURING WALL CONSTRUCTION.
3. DURING CONSTRUCTION AND AFTER WALL COMPLETION THE FINISHED GRADE SHALL BE GRADED TO DRAIN AWAY FROM THE RETAINING WALL UNTIL FINAL DRAINAGE SYSTEM IS COMPLETE. NO STANDING WATER SHALL BE ALLOWED TO POND ABOVE THE RETAINING WALL.
4. THE RETAINING WALL CONTRACTOR TO PROVIDE SUBDRAIN STUB OUT AS SHOWN ON THE WALL PROFILES. THE GENERAL CONTRACTOR/DEVELOPER IS RESPONSIBLE FOR PROVIDING CONNECTIONS AND/OR OUTLETS AS SHOWN ON THE WALL PROFILES AND IN ACCORDANCE WITH THEIR CIVIL ENGINEER.

ANCHOR RETAINING WALL #1 PLAN VIEW
SCALE: 1" = 40'

AS BUILT		UTILITY NOTE	
SIGNATURE _____	Date _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
Printed Name _____	P.E. No. _____		
My Registration Expires _____	Discipline _____		

REFERENCE DRAWINGS	REVISIONS	By	Date	App'd
C.V. DWG. NO.				

REVISIONS	By	Date	App'd	REVISIONS	By	Date	App'd	REVISIONS

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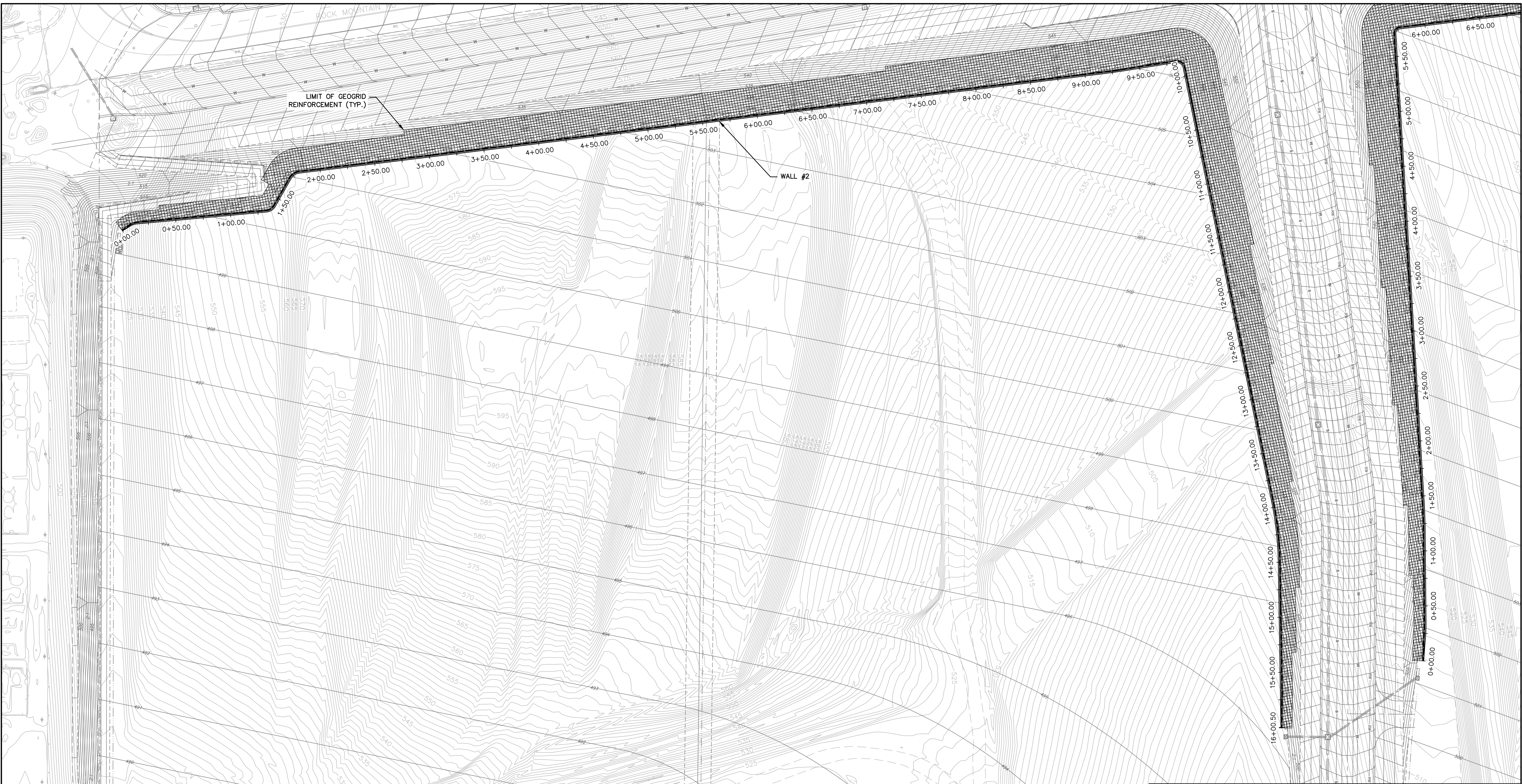
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TEL 760 509 0079

GEOGRID
RETAINING WALL SYSTEMS, INC.
JOB #23062G

THE CITY OF
CHULA VISTA

RETAINING WALL PLAN SHEET FOR OTAY RANCH VILLAGE 8 EAST CHULA VISTA TRACT NO. 22-0005	
DEVELOPMENT SERVICES DEPARTMENT	
Approved: _____ By: _____ Submitted: _____ Planning: _____	ACCELA NO.: XXXX PROJECT NO.: XXXX TOTAL SHEETS: 14 1796 - 6340 NAD83 COORDINATES 154 - 1773 LAMBERT COORDINATES
AS BUILT	
CONTRACTOR: _____ INSPECTOR: _____	DRAWING NO. G063 XXXXX.XXX DATE COMPLETED: _____



ANCHOR RETAINING WALL PLANS FOR OTAY RANCH VILLAGE 8 EAST

CONSTRUCTION NOTES

1. GRADING PLAN LINES, GRADES AND ELEVATIONS ARE SHOWN FOR REFERENCE ONLY. PLEASE SEE PROJECT GRADING PLAN FOR SITE INFORMATION.
2. GENERAL CONTRACTOR/DEVELOPER AND THE RETAINING WALL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL SUBTERRANEAN CONSTRUCTION WITHIN THE REINFORCED ZONE. M3 CIVIL ENGINEERING, INC. SHALL BE CONSULTED PRIOR TO ANY EXCAVATION WITHIN THE REINFORCED ZONE. ALL EFFORTS SHALL BE MADE TO COORDINATE INSTALLATION OF SUBTERRANEAN FEATURES DURING WALL CONSTRUCTION.
3. DURING CONSTRUCTION AND AFTER WALL COMPLETION THE FINISHED GRADE SHALL BE GRADED TO DRAIN AWAY FROM THE RETAINING WALL UNTIL FINAL DRAINAGE SYSTEM IS COMPLETE. NO STANDING WATER SHALL BE ALLOWED TO POND ABOVE THE RETAINING WALL.
4. THE RETAINING WALL CONTRACTOR TO PROVIDE SUBDRAIN STUB OUT AS SHOWN ON THE WALL PROFILES. THE GENERAL CONTRACTOR/DEVELOPER IS RESPONSIBLE FOR PROVIDING CONNECTIONS AND/OR OUTLETS AS SHOWN ON THE WALL PROFILES AND IN ACCORDANCE WITH THEIR CIVIL ENGINEER.

ANCHOR RETAINING WALL #2 PLAN VIEW
SCALE: 1" = 40'

AS BUILT		UTILITY NOTE	
SIGNATURE _____	Date _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
Printed Name _____	P.E. No. _____		
My Registration Expires _____	Discipline _____		

REFERENCE DRAWINGS	REVISIONS	By	Date	App'd
C.V. DWG. NO.				

REVISIONS	By	Date	App'd	REVISIONS	By	Date	App'd

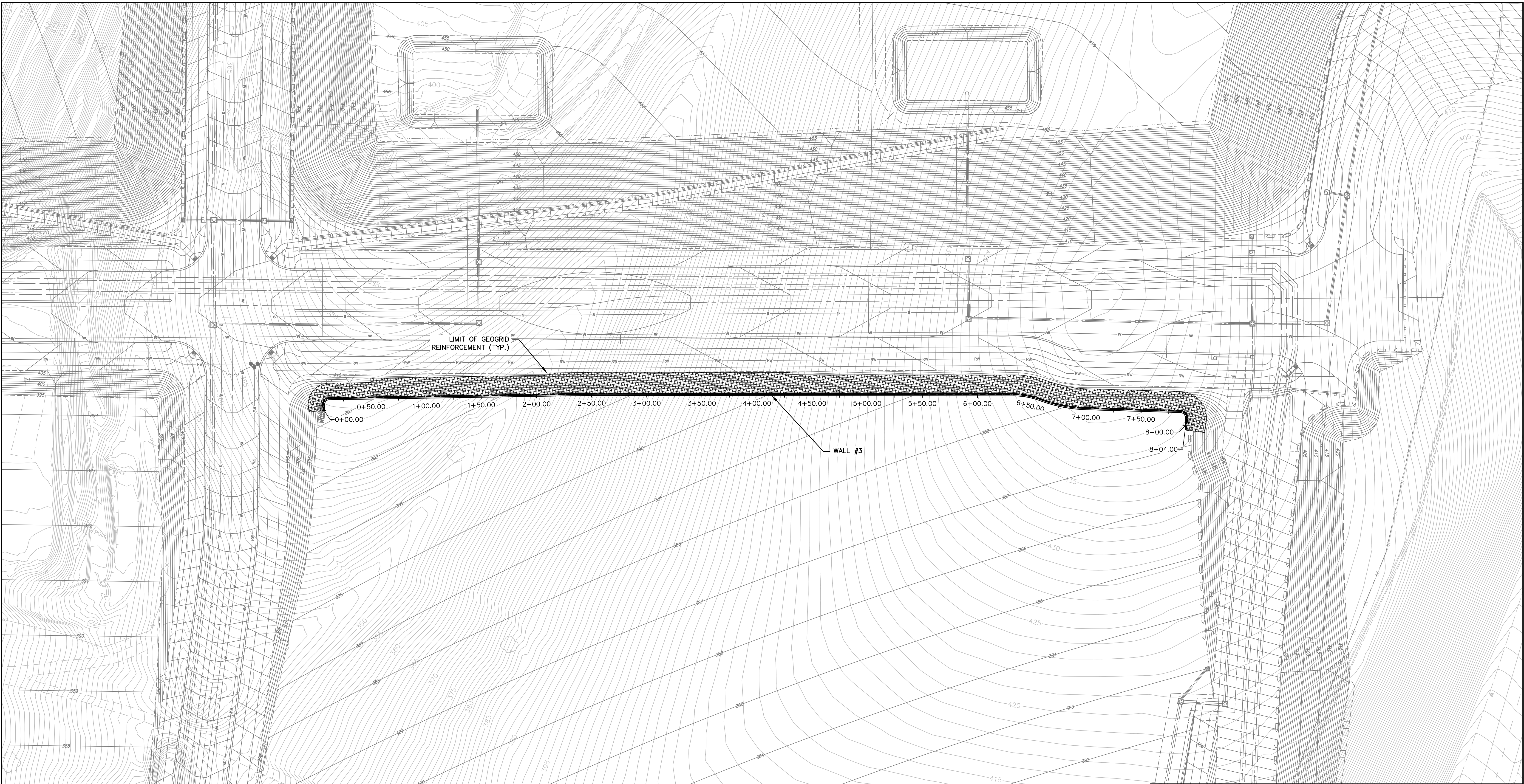
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JOB #23062G

THE CITY OF CHULA VISTA

<p>IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING NOT TO SCALE</p>		<p>RETAINING WALL PLAN SHEET FOR OTAY RANCH VILLAGE 8 EAST</p> <p>CHULA VISTA TRACT NO. 22-0005</p>	
<p>DEVELOPMENT SERVICES DEPARTMENT</p>		<p>ACCELA NO.: XXXX PROJECT NO.: XXXX</p>	
<p>Approved: _____</p> <p>By: _____ Principal Civil Engineer</p>		<p>TOTAL SHEETS: 14 1796 - 6340</p>	
<p>Submitted: _____</p> <p>By: _____</p>		<p>NAD83 COORDINATES 154 - 1773</p>	
<p>Planning: _____</p> <p>Landscape: _____</p>		<p>LAMBERT COORDINATES</p>	
<p>AS BUILT</p>		<p>DRAWING NO. G064</p>	
<p>CONTRACTOR: _____</p> <p>INSPECTOR: _____</p>		<p>XXXXX.XXX DATE COMPLETED: _____</p>	



ANCHOR RETAINING WALL PLANS FOR OTAY RANCH VILLAGE 8 EAST

ANCHOR RETAINING WALL #3 PLAN VIEW
SCALE: 1" = 40'

CONSTRUCTION NOTES

1. GRADING PLAN LINES, GRADES AND ELEVATIONS ARE SHOWN FOR REFERENCE ONLY. PLEASE SEE PROJECT GRADING PLAN FOR SITE INFORMATION.
2. GENERAL CONTRACTOR/DEVELOPER AND THE RETAINING WALL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL SUBTERRANEAN CONSTRUCTION WITHIN THE REINFORCED ZONE. M3 CIVIL ENGINEERING, INC. SHALL BE CONSULTED PRIOR TO ANY EXCAVATION WITHIN THE REINFORCED ZONE. ALL EFFORTS SHALL BE MADE TO COORDINATE INSTALLATION OF SUBTERRANEAN FEATURES DURING WALL CONSTRUCTION.
3. DURING CONSTRUCTION AND AFTER WALL COMPLETION THE FINISHED GRADE SHALL BE GRADED TO DRAIN AWAY FROM THE RETAINING WALL UNTIL FINAL DRAINAGE SYSTEM IS COMPLETE. NO STANDING WATER SHALL BE ALLOWED TO POND ABOVE THE RETAINING WALL.
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AS BUILT		UTILITY NOTE	
SIGNATURE _____	Date _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
Printed Name _____	P.E. No. _____		
My Registration Expires _____	Discipline _____		

REFERENCE DRAWINGS	REVISIONS	By	Date	App'd
C.V. DWG. NO.				

REVISIONS	By	Date	App'd

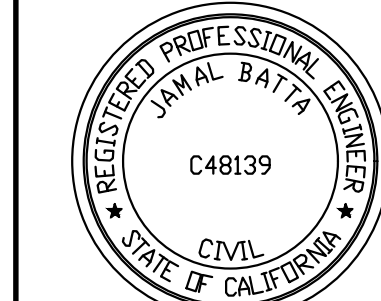
REVISIONS	By	Date	App'd	Designed By	Drawn By	Checked By
				MMM	MMM	MMM
				Plans Prepared Under Supervision Of:	Date:	
				MATTHEW M. MERRITT	R.C.E. No.	68429



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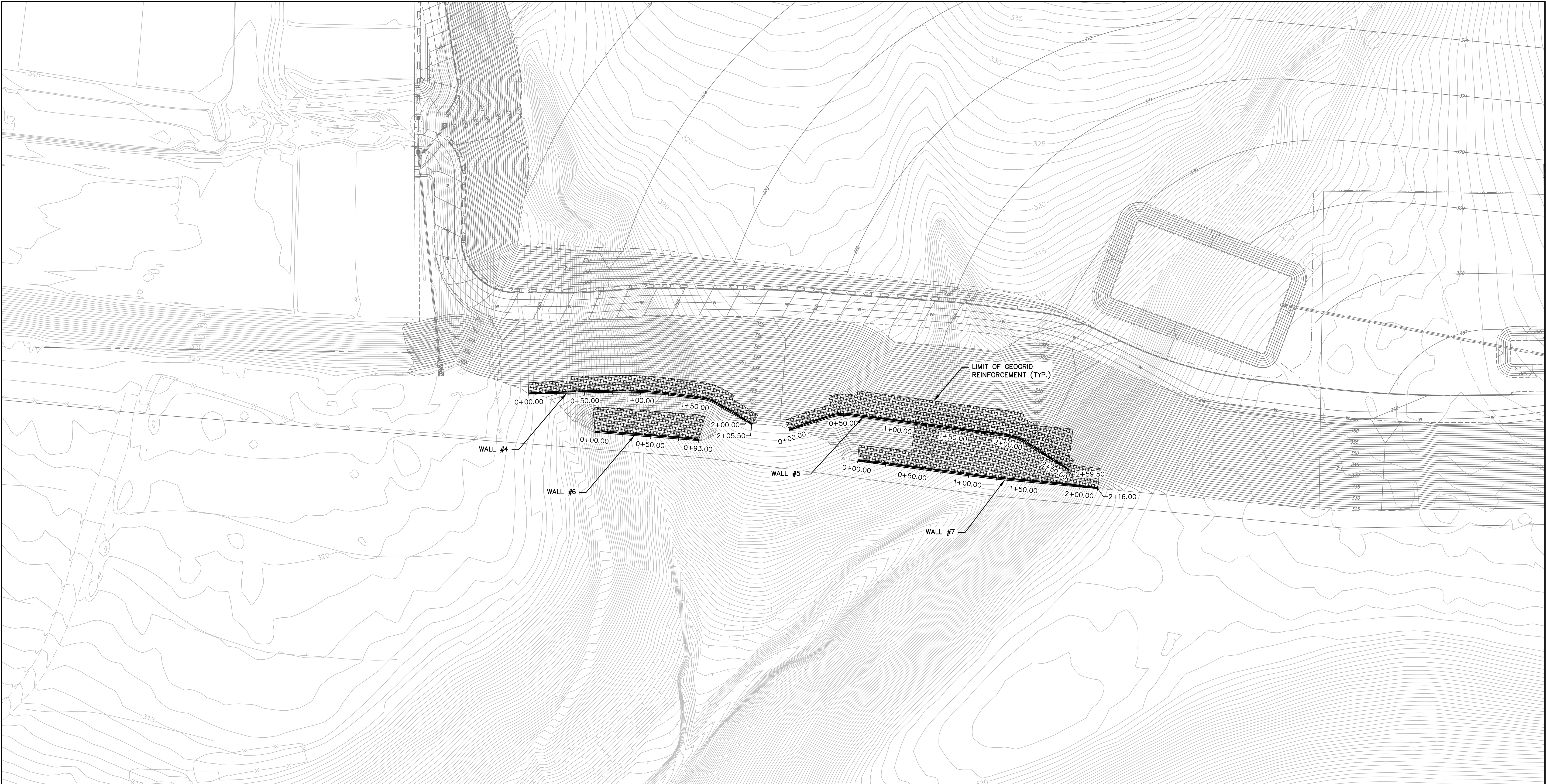
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JOB #23062G



THE CITY OF CHULA VISTA

		RETAINING WALL PLAN SHEET FOR OTAY RANCH VILLAGE 8 EAST CHULA VISTA TRACT NO. 22-0005	
DEVELOPMENT SERVICES DEPARTMENT		ACCELA NO.: XXXX PROJECT NO.: XXXX	
Approved: _____ By: _____ Principal Civil Engineer		TOTAL SHEETS: 14 1796 - 6340	
Submitted: _____ By: _____		NAD83 COORDINATES 154 - 1773	
Planning: _____ Landscape: _____		LAMBERT COORDINATES	
AS BUILT		DRAWING NO. G065	
CONTRACTOR: _____ INSPECTOR: _____		XXXXX.XXX DATE COMPLETED: _____	



ANCHOR RETAINING WALL PLANS FOR OTAY RANCH VILLAGE 8 EAST

- CONSTRUCTION NOTES**
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ANCHOR RETAINING WALL #4-#7 PLAN VIEW
SCALE: 1" = 40'

AS BUILT		UTILITY NOTE	
Signature _____	Date _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
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My Registration Expires _____	Discipline _____		

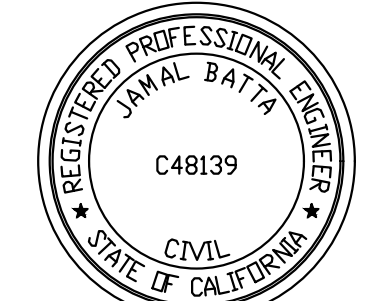
REFERENCE DRAWINGS	REVISIONS	By	Date	App'd	REVISIONS	By	Date	App'd	REVISIONS	By	Date	App'd	Designed By:	Drawn By:	Checked By:
C.V. DWG. NO.													MMM	MMM	MMM
													Plans Prepared Under Supervision Of:		Date: _____
													MATTHEW M. MERRITT		R.C.E. No. 68429



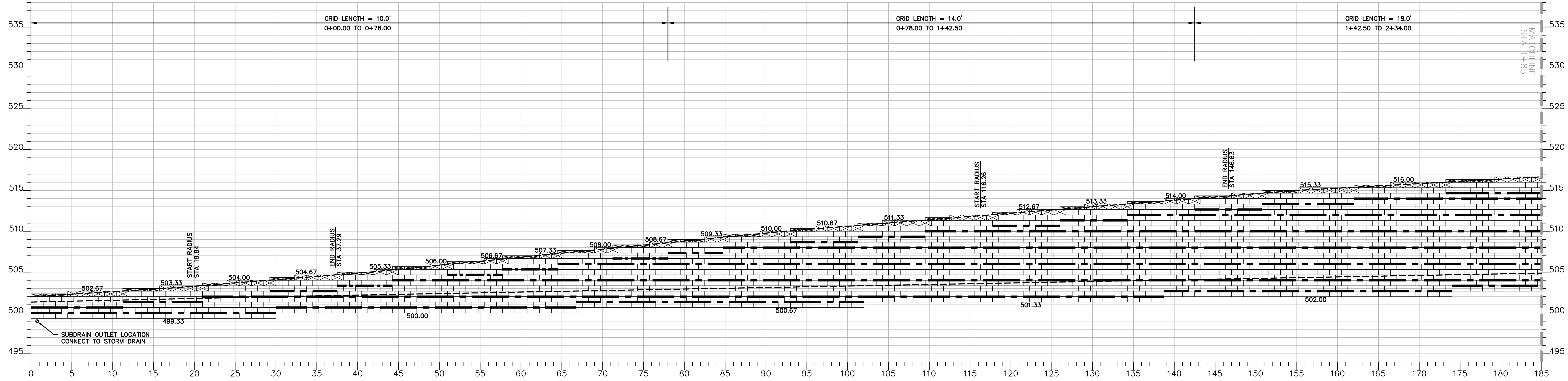
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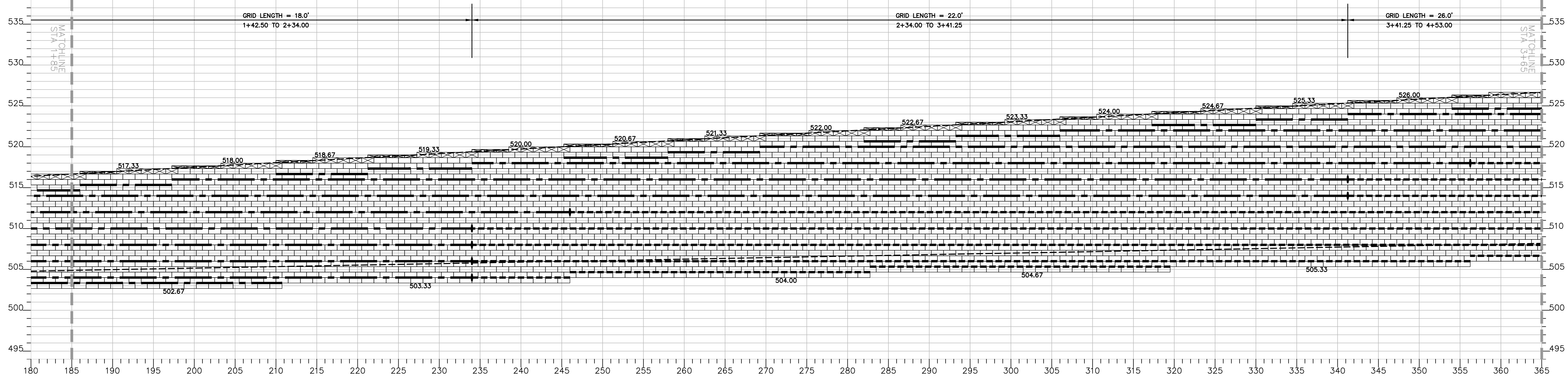
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RETAINING WALL PLAN SHEET FOR OTAY RANCH VILLAGE 8 EAST CHULA VISTA TRACT NO. 22-0005		ACCELA NO.: XXXX PROJECT NO.: XXXX TOTAL SHEETS: 14 1796 - 6340 NAD83 COORDINATES 154 - 1773 LAMBERT COORDINATES
DEVELOPMENT SERVICES DEPARTMENT		
Approved: _____ By: _____ Submitted: _____ Planning: _____	Principal Civil Engineer	
AS BUILT		DRAWING NO. G066
CONTRACTOR: _____ INSPECTOR: _____		DATE COMPLETED: _____



ANCHOR RETAINING WALL #1 PROFILE
SCALE: 1" = 6' H: V



ANCHOR RETAINING WALL #1 PROFILE
SCALE: 1" = 6' H: V

ANCHOR RETAINING WALL PLANS FOR OTAY RANCH VILLAGE 8 EAST

AS BUILT		UTILITY NOTE	
SIGNATURE _____	Date _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
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REFERENCE DRAWINGS	REVISIONS	By	Date
C.V. DWG. NO.			

LEGEND

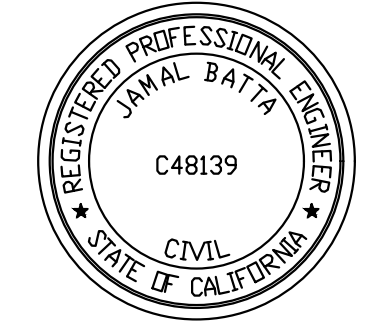
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- 8" CAP UNIT
- GEOHOLD PRO UNIT
- MIRAGRID 8XT
- MIRAGRID 10XT W/PIPE
- FINISH GRADE
- GRID CHANGE



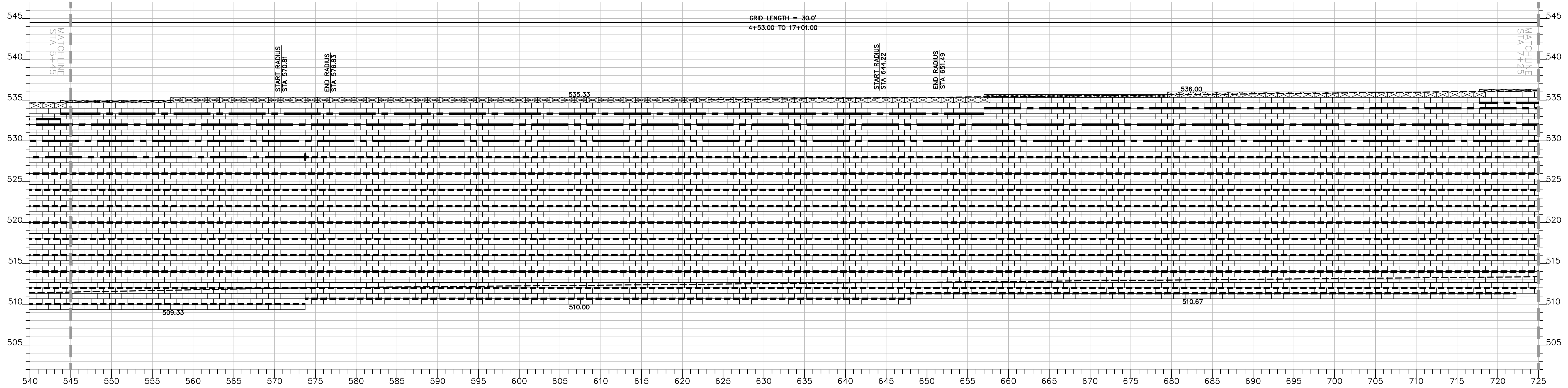
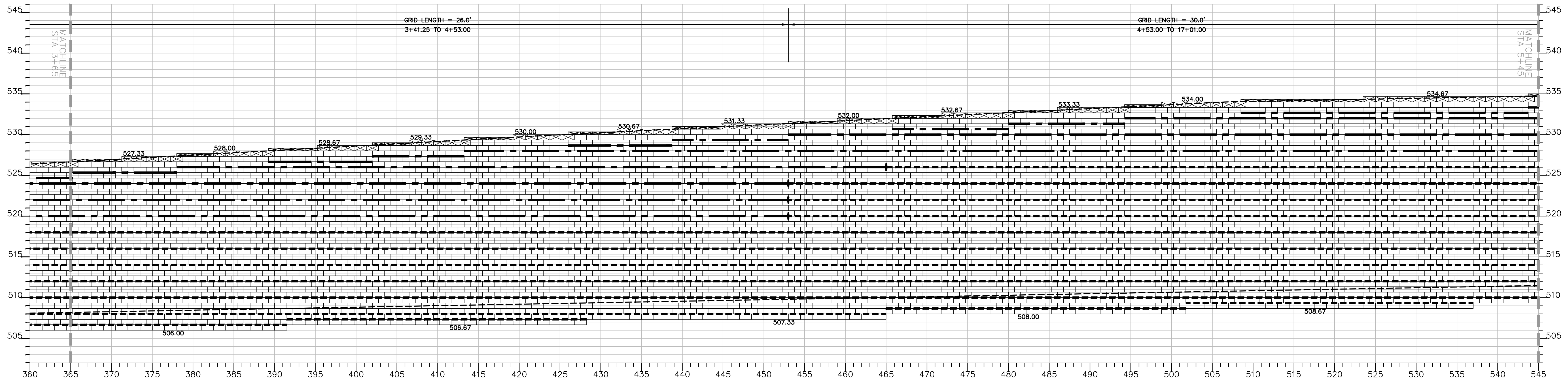
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RETAINING WALL PLAN SHEET FOR OTAY RANCH VILLAGE 8 EAST CHULA VISTA TRACT NO. 22-0005	
DEVELOPMENT SERVICES DEPARTMENT	
Approved: _____ By: _____ Submitted: _____ Planning: _____	ACCELA NO.: XXXX PROJECT NO.: XXXX TOTAL SHEETS: 14 1796 - 6340 NAD83 COORDINATES 154 - 1773 LAMBERT COORDINATES
AS BUILT	
CONTRACTOR: _____ INSPECTOR: _____	DRAWING NO. G067 XXXXX.XXX DATE COMPLETED: _____



ANCHOR RETAINING WALL PLANS FOR OTAY RANCH VILLAGE 8 EAST

AS BUILT		UTILITY NOTE	
SIGNATURE _____	Date _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
Printed Name _____	P.E. No. _____		
My Registration Expires _____	Discipline _____		

LEGEND

- 4" CAP UNIT
- 8" CAP UNIT
- GEOHOLD PRO UNIT
- MIRAGRID 8XT
- MIRAGRID 10XT W/PIPE
- FINISH GRADE
- GRID CHANGE

REFERENCE DRAWINGS	REVISIONS	By	Date	App'd
C.V. DWG. NO.				

REVISIONS	By	Date	App'd

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PO BOX 923
OCEANSIDE, CA 92049
760-802-1772 MATT@M3CE.COM

GEOGRID
RETAINING WALL SYSTEMS, INC.
JOB #23062G

DESIGNED BY: MMM
DRAWN BY: MMM
CHECKED BY: MMM

DATE: _____
R.C.E. No. 68429

REGISTERED PROFESSIONAL ENGINEER
JIMAL BATA
C48139
CIVIL
STATE OF CALIFORNIA

THE CITY OF CHULA VISTA

RETAINING WALL PLAN SHEET FOR
OTAY RANCH VILLAGE 8 EAST
CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT

ACCELA NO.: XXXX
PROJECT NO.: XXXX
TOTAL SHEETS: 14
1796 - 6340
NAD83 COORDINATES
154 - 1773
LAMBERT COORDINATES

Approved: _____
By: _____
Principal Civil Engineer

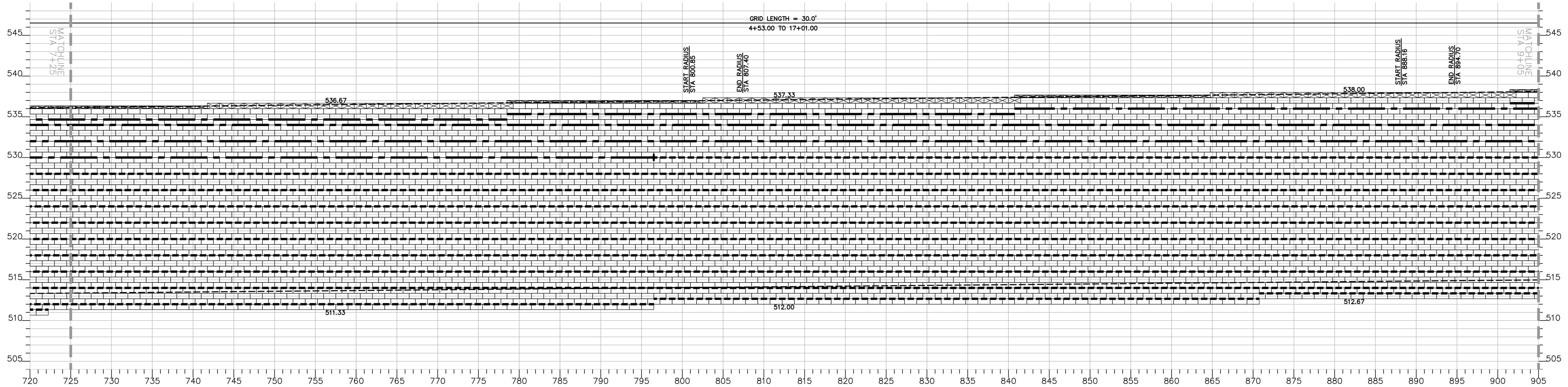
Submitted: _____
By: _____

Planning: _____ Landscape: _____

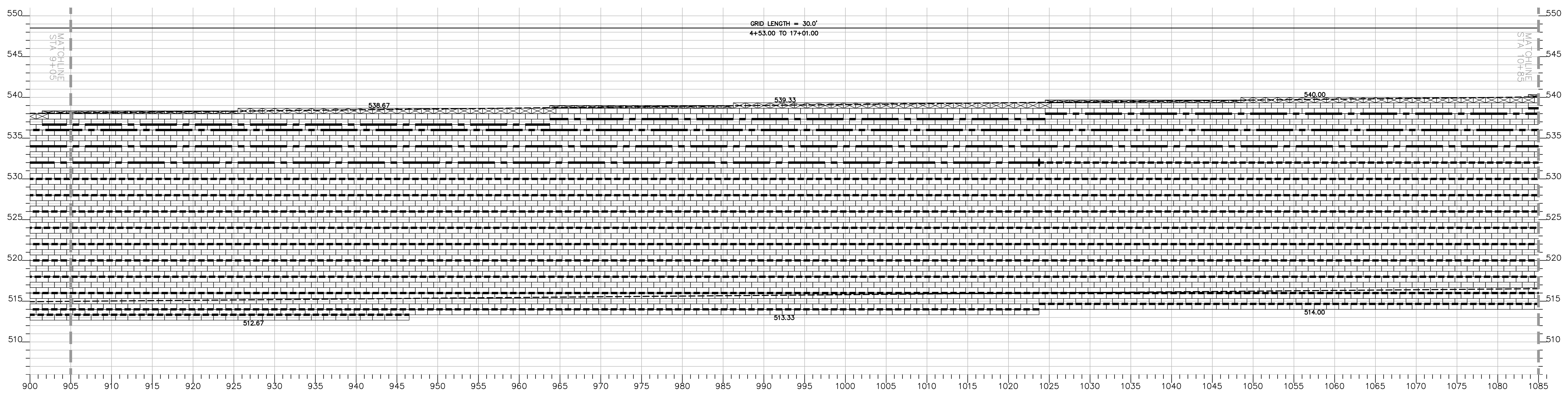
AS BUILT

CONTRACTOR: _____
INSPECTOR: _____ DATE COMPLETED: _____

DRAWING NO. G068
XXXXX.XXX



ANCHOR RETAINING WALL #1 PROFILE
SCALE: 1" = 6' H: V



ANCHOR RETAINING WALL #1 PROFILE
SCALE: 1" = 6' H: V

ANCHOR RETAINING WALL PLANS FOR OTAY RANCH VILLAGE 8 EAST

AS BUILT		UTILITY NOTE	
SIGNATURE _____	Date _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
Printed Name _____	P.E. No. _____		
My Registration Expires _____	Discipline _____		

LEGEND

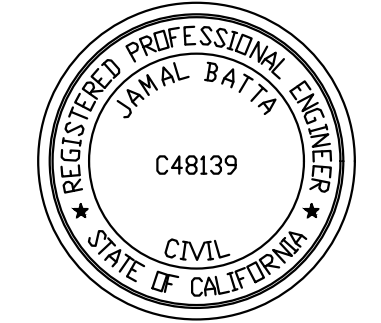
- 4" CAP UNIT
- 8" CAP UNIT
- GEOHOLD PRO UNIT
- MIRAGRID 8XT
- MIRAGRID 10XT W/PIPE
- FINISH GRADE
- GRID CHANGE



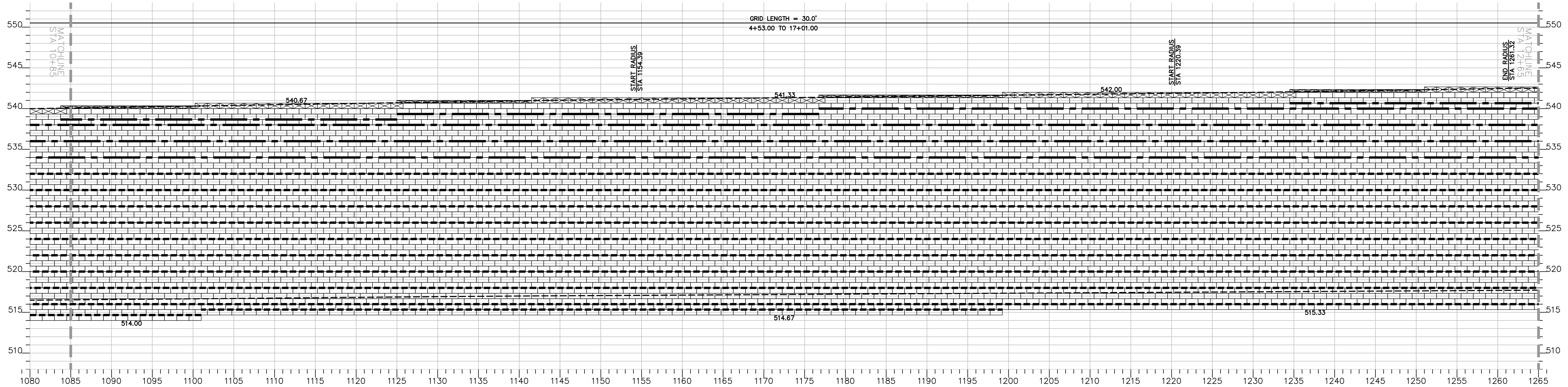
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M3 CIVIL ENGINEERING, INC.
PO BOX 923
OCEANSIDE, CA 92049
760-802-1772 MATT@M3CE.COM

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1295 DISTRIBUTION WAY
VISTA, CA 92081
TEL 760 509 0079

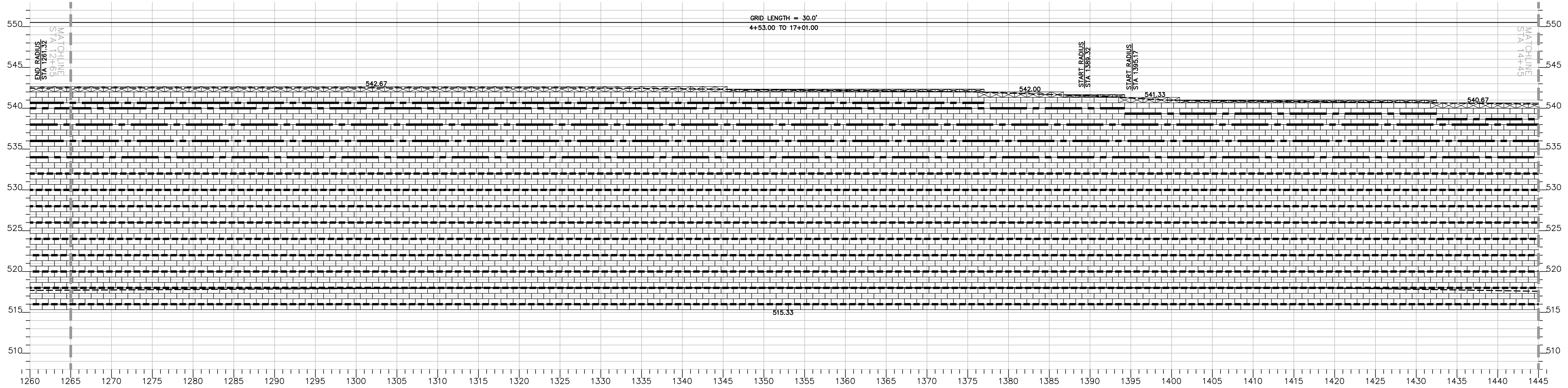
GEOGRID
RETAINING WALL SYSTEMS, INC
JOB #23062G



 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING NOT TO SCALE		RETAINING WALL PLAN SHEET FOR OTAY RANCH VILLAGE 8 EAST CHULA VISTA TRACT NO. 22-0005	
DEVELOPMENT SERVICES DEPARTMENT		ACCELA NO.: XXXX PROJECT NO.: XXXX TOTAL SHEETS: 14 1796 - 6340 NAD83 COORDINATES 154 - 1773 LAMBERT COORDINATES	
Approved: _____ By: _____ Submitted: _____ By: _____ Planning: _____ Landscape: _____		AS BUILT	
CONTRACTOR: _____ INSPECTOR: _____		DRAWING NO. G069 XXXXX.XXX DATE COMPLETED: _____	



ANCHOR RETAINING WALL #1 PROFILE
SCALE: 1" = 6' H: V



ANCHOR RETAINING WALL #1 PROFILE
SCALE: 1" = 6' H: V

ANCHOR RETAINING WALL PLANS FOR OTAY RANCH VILLAGE 8 EAST

AS BUILT

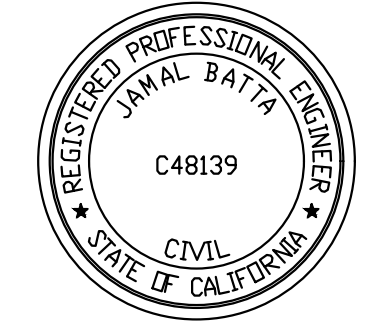
Signature: _____ Date: _____
 Printed Name: _____ P.E. No.: _____
 My Registration Expires: _____ Discipline: _____

UTILITY NOTE

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LEGEND

4" CAP UNIT
 8" CAP UNIT
 GEOHOLD PRO UNIT
 MIRAGRID 8XT
 MIRAGRID 10XT W/PIPE
 FINISH GRADE
 GRID CHANGE



REFERENCE DRAWINGS	REVISIONS	By	Date	App'd	REVISIONS	By	Date	App'd	REVISIONS	By	Date	App'd	Designed By:	Drawn By:	Checked By:
C.V. DWG. NO.													MMM	MMM	MMM
												Plans Prepared Under Supervision Of: _____ Date: _____			
												MATTHEW M. MERRITT R.C.E. No. 68429			

RETAINING WALL PLAN SHEET FOR OTAY RANCH VILLAGE 8 EAST

CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT

ACCELA NO.: XXXX
 PROJECT NO.: XXXX
 TOTAL SHEETS: 14
 1796 - 6340
 NAD83 COORDINATES
 154 - 1773
 LAMBERT COORDINATES

Approved: _____
 By: _____
 Principal Civil Engineer

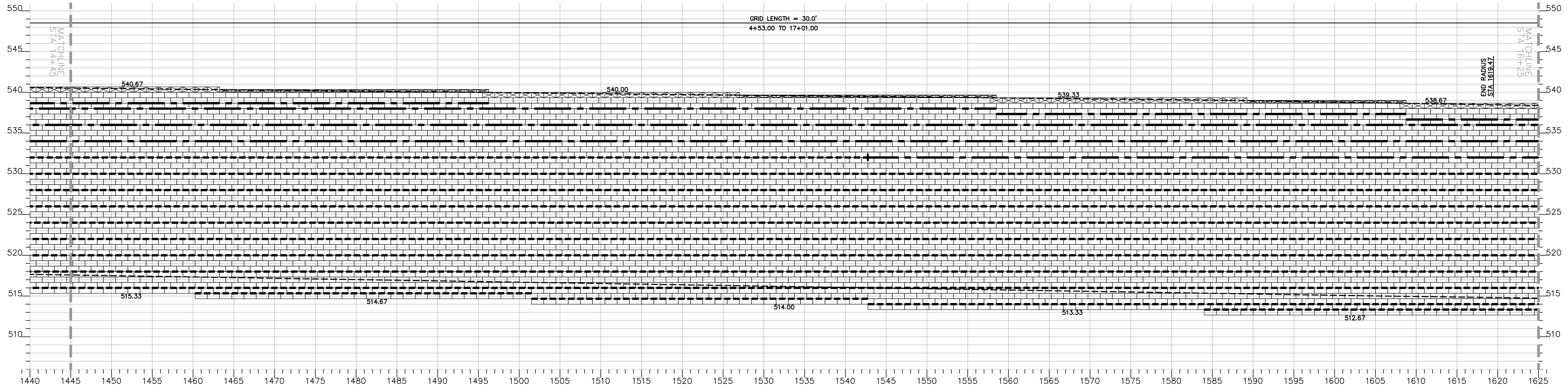
Submitted: _____
 By: _____

Planning: _____ Landscape: _____

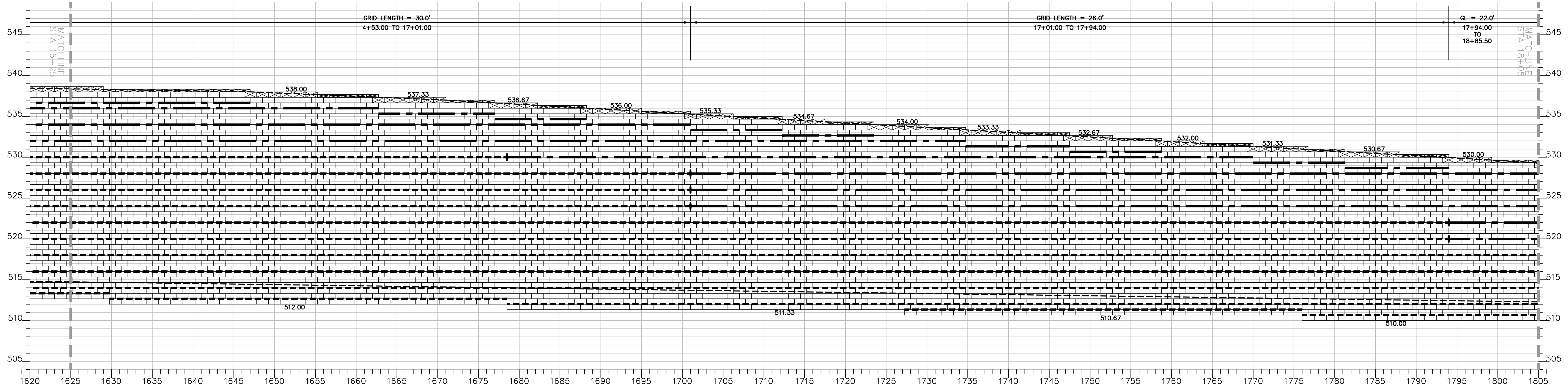
AS BUILT

CONTRACTOR: _____
 INSPECTOR: _____ DATE COMPLETED: _____

DRAWING NO. G070



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SCALE: 1" = 6' H: V

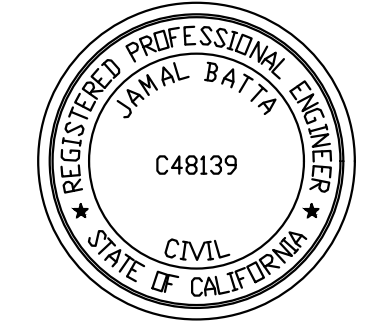
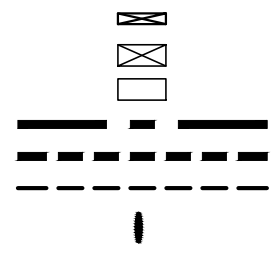


ANCHOR RETAINING WALL #1 PROFILE
SCALE: 1" = 6' H: V

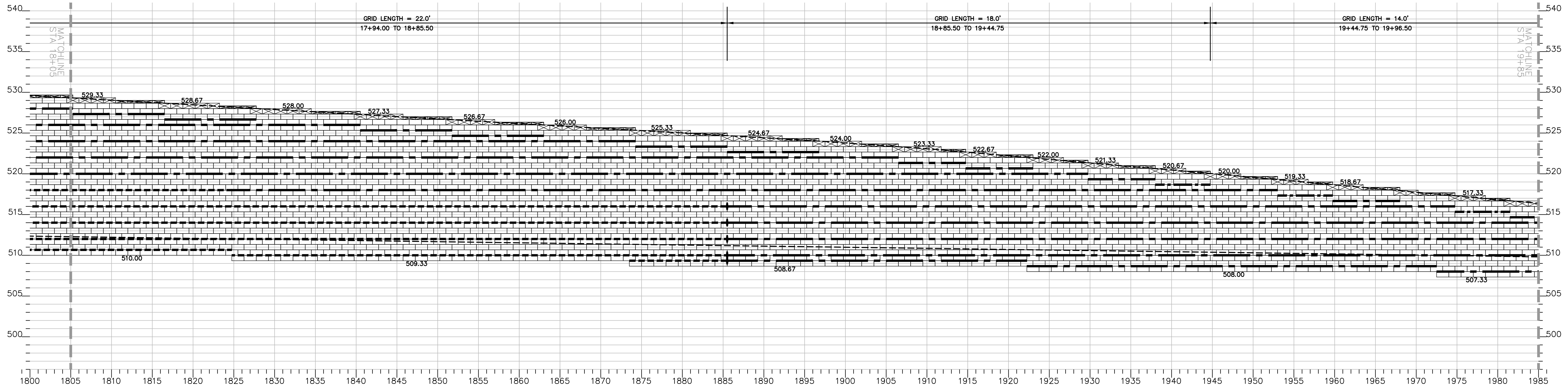
ANCHOR RETAINING WALL PLANS FOR OTAY RANCH VILLAGE 8 EAST

AS BUILT		UTILITY NOTE	
SIGNATURE _____	Date _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
Printed Name _____	P.E. No. _____		
My Registration Expires _____	Discipline _____		

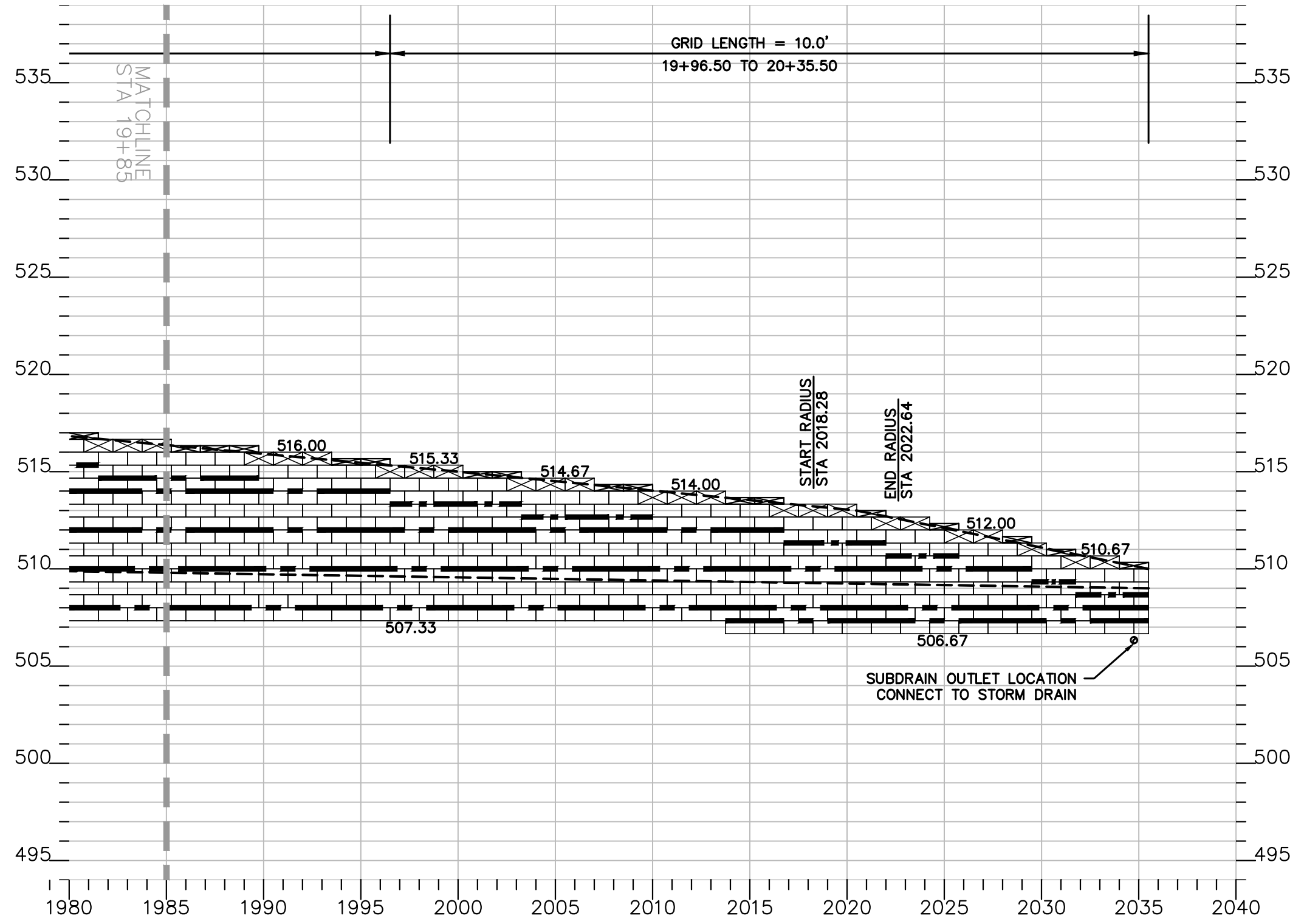
LEGEND
 4" CAP UNIT
 8" CAP UNIT
 GEOHOLD PRO UNIT
 MIRAGRID 8XT
 MIRAGRID 10XT W/PIPE
 FINISH GRADE
 GRID CHANGE



		RETAINING WALL PLAN SHEET FOR OTAY RANCH VILLAGE 8 EAST CHULA VISTA TRACT NO. 22-0005	
DEVELOPMENT SERVICES DEPARTMENT		ACCELA NO.: XXXX PROJECT NO.: XXXX	
Approved: _____ By: _____ Principal Civil Engineer		TOTAL SHEETS: 14 1796 - 6340	
Submitted: _____ By: _____		NAD83 COORDINATES 154 - 1773	
Planning: _____ Landscape: _____		LAMBERT COORDINATES	
AS BUILT		DRAWING NO. G071	
CONTRACTOR: _____ INSPECTOR: _____		DATE COMPLETED: _____	

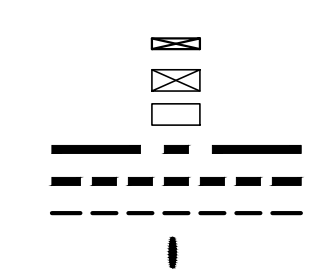


ANCHOR RETAINING WALL #1 PROFILE
SCALE: 1" = 6' H:V



ANCHOR RETAINING WALL #1 PROFILE
SCALE: 1" = 6' H:V

LEGEND
 4" CAP UNIT
 8" CAP UNIT
 GEOHOLD PRO UNIT
 MIRAGRID 8XT
 MIRAGRID 10XT W/PIPE
 FINISH GRADE
 GRID CHANGE



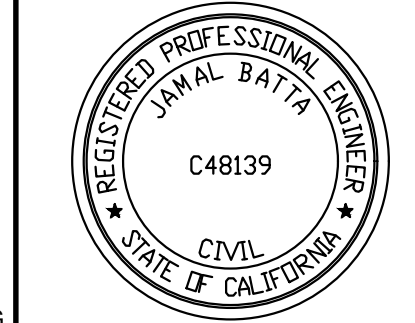
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AS BUILT
 SIGNATURE _____ Date _____
 Printed Name _____ P.E. No. _____
 My Registration Expires _____ Discipline _____

REFERENCE DRAWINGS	REVISIONS	By	Date	App'd
C.V. DWG. NO.				

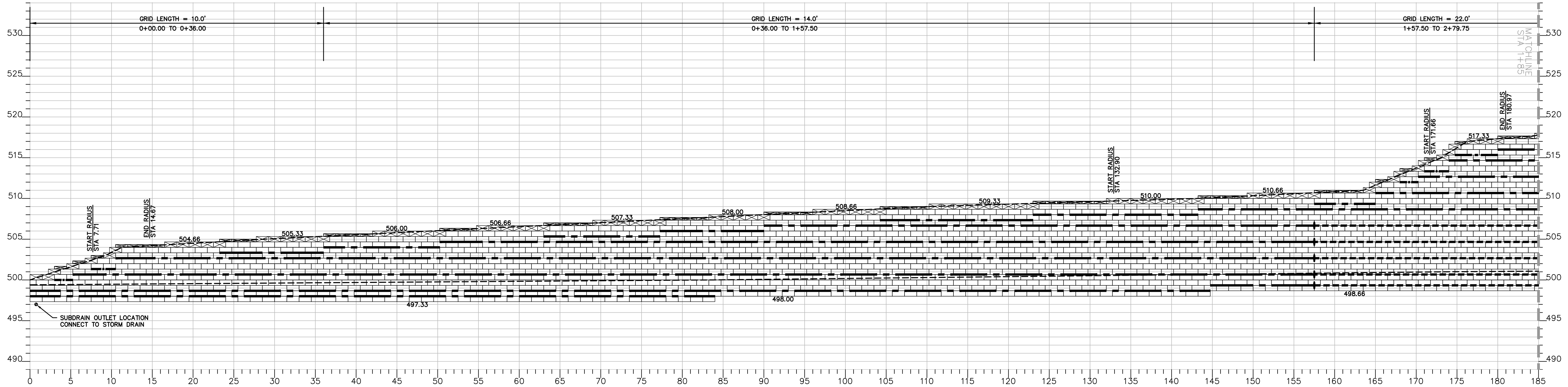
REVISIONS	By	Date	App'd

REVISIONS	By	Date	App'd	Designed By	Drawn By	Checked By
				MMM	MMM	MMM
				Planned Under Supervision Of:	Date:	
				MATTHEW M. MERRITT	R.C.E. No. 68429	

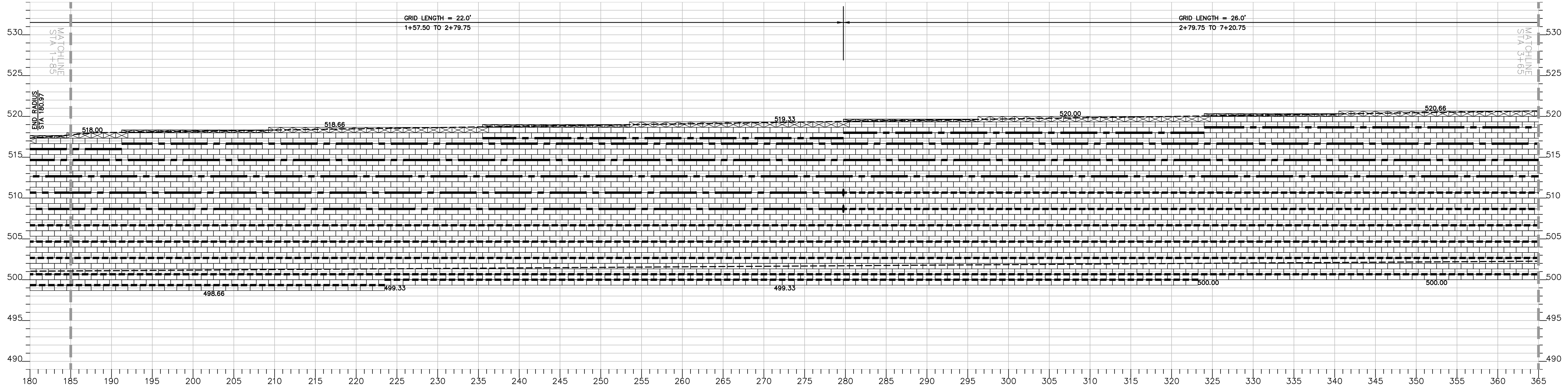


THE CITY OF CHULA VISTA

<p>IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING NOT TO SCALE</p>		RETAINING WALL PLAN SHEET FOR OTAY RANCH VILLAGE 8 EAST CHULA VISTA TRACT NO. 22-0005	
DEVELOPMENT SERVICES DEPARTMENT		ACCELA NO.: XXXX PROJECT NO.: XXXX	
Approved: _____ By: _____ Principal Civil Engineer		TOTAL SHEETS: 14 1796 - 6340	
Submitted: _____ By: _____		NAD83 COORDINATES 154 - 1773	
Planning: _____ Landscape: _____		LAMBERT COORDINATES	
AS BUILT		DRAWING NO. G072	
CONTRACTOR: _____ INSPECTOR: _____		XXXXX.XXX DATE COMPLETED: _____	



ANCHOR RETAINING WALL #2 PROFILE
SCALE: 1" = 6' H: V



ANCHOR RETAINING WALL #2 PROFILE
SCALE: 1" = 6' H: V

AS BUILT		UTILITY NOTE	
SIGNATURE _____	Date _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
Printed Name _____	P.E. No. _____		
My Registration Expires _____	Discipline _____		
REFERENCE DRAWINGS	REVISIONS	By	Date
C.V. DWG. NO.			

LEGEND

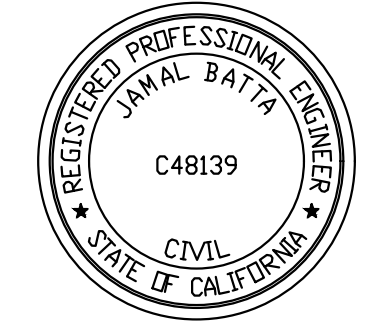
- 4" CAP UNIT
- 8" CAP UNIT
- GEOHOLD PRO UNIT
- MIRAGRID 8XT
- MIRAGRID 10XT W/PIPE
- FINISH GRADE
- GRID CHANGE



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760-802-1772 MATT@M3CE.COM

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VISTA, CA 92081
TEL 760 509 0079

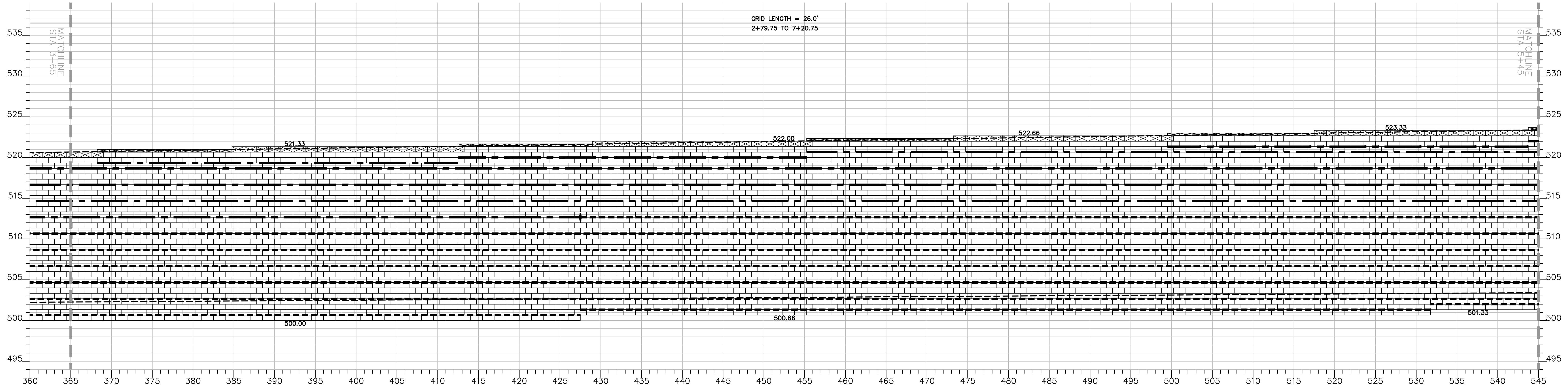
GEOGRID
RETAINING WALL SYSTEMS, INC.
JOB #23062G



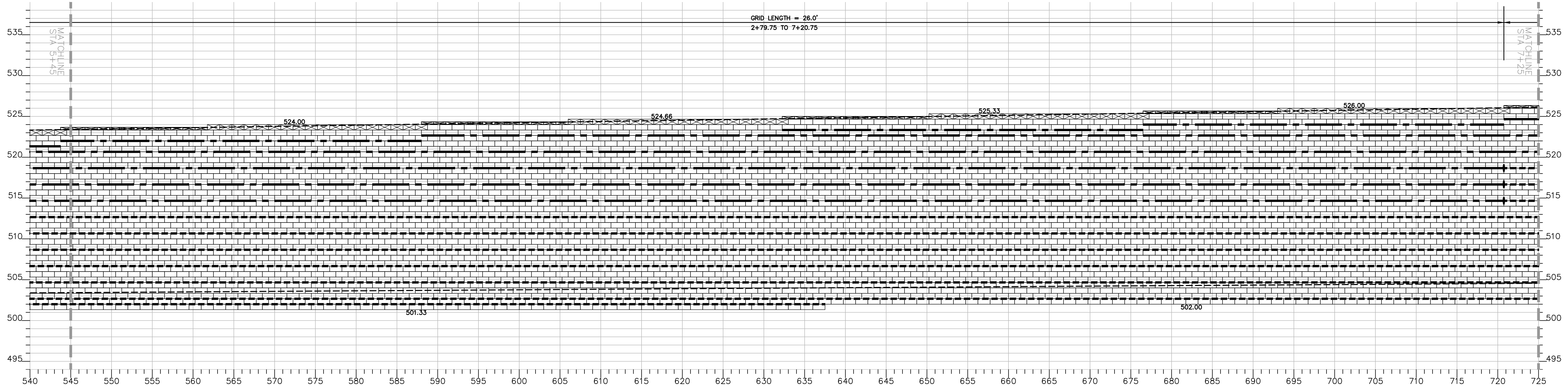
THE CITY OF CHULA VISTA

<p>IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING NOT TO SCALE</p>		<p>RETAINING WALL PLAN SHEET FOR OTAY RANCH VILLAGE 8 EAST</p> <p>CHULA VISTA TRACT NO. 22-0005</p>	
DEVELOPMENT SERVICES DEPARTMENT		ACCELA NO.: XXXX	
		PROJECT NO.: XXXX	
Approved: _____		TOTAL SHEETS: 14	
By: _____ Principal Civil Engineer		1796 - 6340	
Submitted: _____		NAD83 COORDINATES	
By: _____		154 - 1773	
Planning: _____		LAMBERT COORDINATES	
Landscape: _____		AS BUILT	
CONTRACTOR: _____		DRAWING NO.	G073
INSPECTOR: _____		XXXXX.XXX	
		DATE COMPLETED: _____	

ANCHOR RETAINING WALL PLANS FOR OTAY RANCH VILLAGE 8 EAST



ANCHOR RETAINING WALL #2 PROFILE
SCALE: 1" = 6' H: V



ANCHOR RETAINING WALL #2 PROFILE
SCALE: 1" = 6' H: V

ANCHOR RETAINING WALL PLANS FOR OTAY RANCH VILLAGE 8 EAST

AS BUILT		UTILITY NOTE	
SIGNATURE _____	Date _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
Printed Name _____	P.E. No. _____		
My Registration Expires _____	Discipline _____		
REFERENCE DRAWINGS	REVISIONS	By	Date
C.V. DWG. NO.			

LEGEND

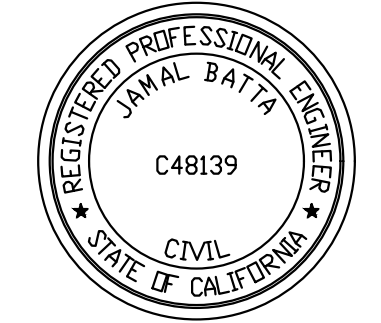
- 4" CAP UNIT
- 8" CAP UNIT
- GEOHOLD PRO UNIT
- MIRAGRID 8XT
- MIRAGRID 10XT W/PIPE
- FINISH GRADE
- GRID CHANGE



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760-802-1772 MATT@M3CE.COM

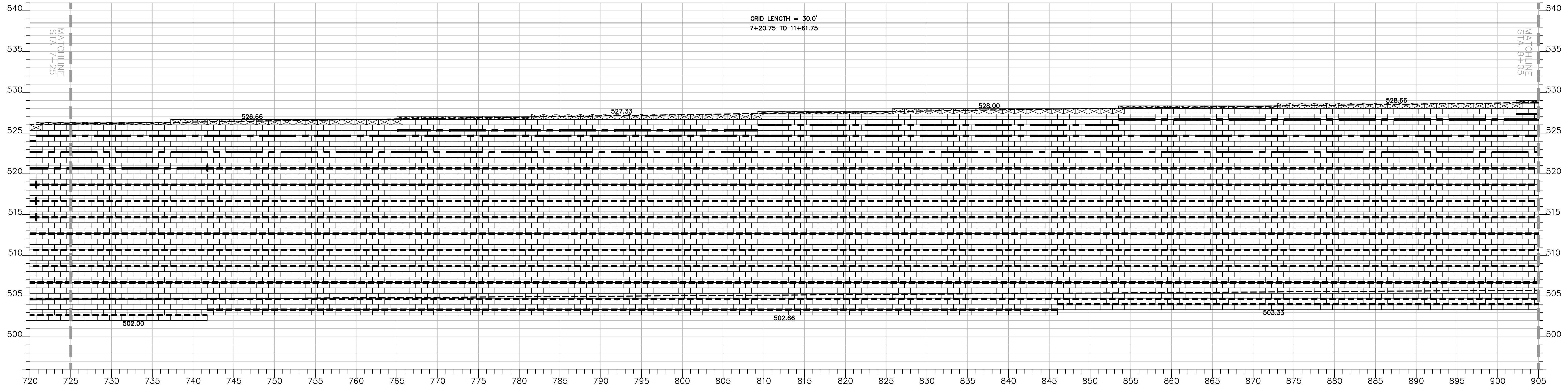
PREPARED FOR THE EXCLUSIVE USE OF
1295 DISTRIBUTION WAY
VISTA, CA 92081
TEL 760 509 0079

GEOGRID
RETAINING WALL SYSTEMS, INC
JOB #23062G

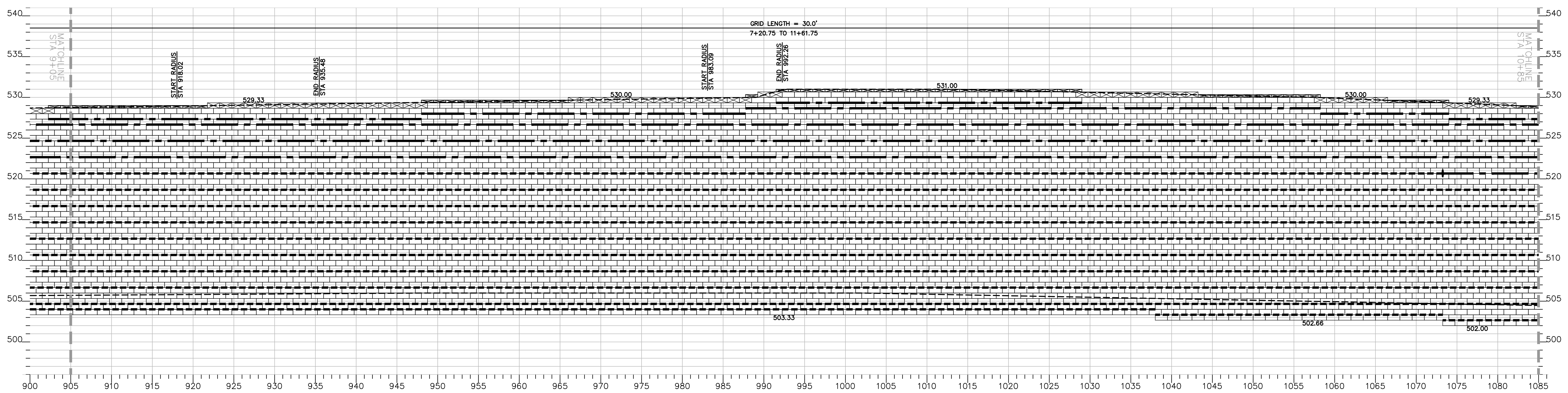


THE CITY OF CHULA VISTA

<p>IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING NOT TO SCALE</p>		<p align="center">RETAINING WALL PLAN SHEET FOR OTAY RANCH VILLAGE 8 EAST</p> <p align="center">CHULA VISTA TRACT NO. 22-0005</p>	
<p align="center">DEVELOPMENT SERVICES DEPARTMENT</p>		<p>ACCELA NO.: XXXX</p> <p>PROJECT NO.: XXXX</p>	
<p>Approved: _____</p> <p>By: _____ Principal Civil Engineer</p>		<p>TOTAL SHEETS: 14</p> <p>1796 - 6340</p>	
<p>Submitted: _____</p> <p>By: _____</p>		<p>NAD83 COORDINATES</p> <p>154 - 1773</p>	
<p>Planning: _____</p> <p>Landscape: _____</p>		<p>LAMBERT COORDINATES</p>	
<p align="center">AS BUILT</p>		<p>DRAWING NO. G074</p>	
<p>CONTRACTOR: _____</p> <p>INSPECTOR: _____</p>		<p>DATE COMPLETED: _____</p>	



ANCHOR RETAINING WALL #2 PROFILE
SCALE: 1" = 6' H: V



ANCHOR RETAINING WALL #2 PROFILE
SCALE: 1" = 6' H: V

ANCHOR RETAINING WALL PLANS FOR OTAY RANCH VILLAGE 8 EAST

AS BUILT		UTILITY NOTE	
SIGNATURE _____	Date _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
Printed Name _____	P.E. No. _____		
My Registration Expires _____	Discipline _____		

LEGEND

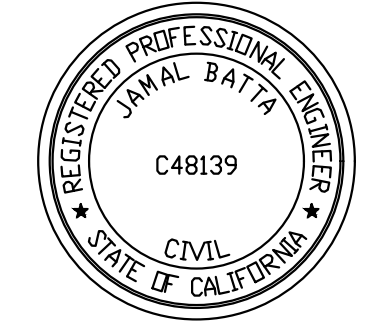
- 4" CAP UNIT
- 8" CAP UNIT
- GEOHOLD PRO UNIT
- MIRAGRID 8XT
- MIRAGRID 10XT W/PIPE
- FINISH GRADE
- GRID CHANGE



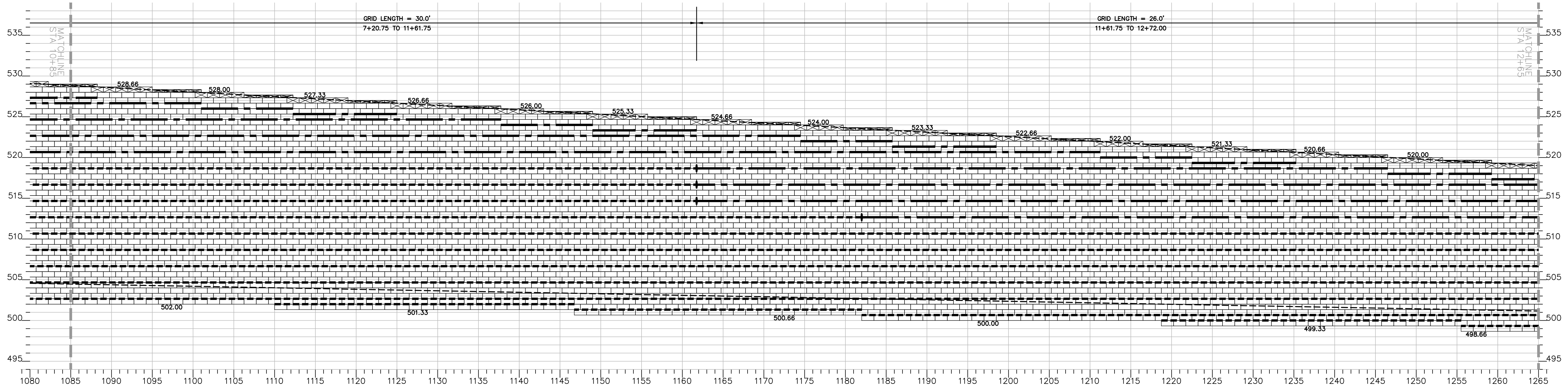
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OCEANSIDE, CA 92049
760-802-1772 MATT@M3CE.COM

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VISTA, CA 92081
TEL 760 509 0079

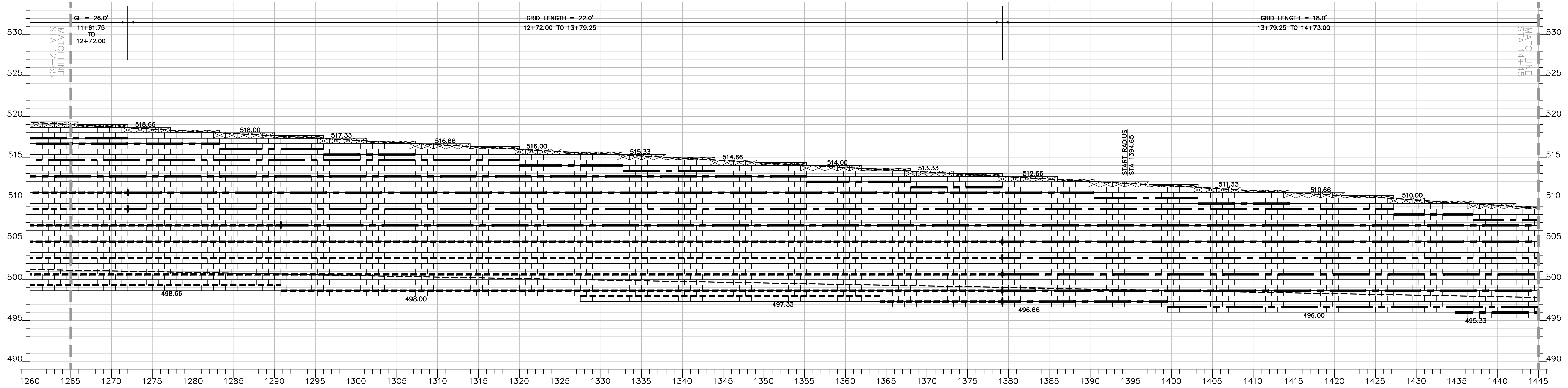
GEOGRID
RETAINING WALL SYSTEMS, INC
JOB #23062G



		RETAINING WALL PLAN SHEET FOR OTAY RANCH VILLAGE 8 EAST CHULA VISTA TRACT NO. 22-0005	
DEVELOPMENT SERVICES DEPARTMENT		ACCELA NO.: XXXX PROJECT NO.: XXXX	
Approved: _____ By: _____ Submitted: _____ Planning: _____		TOTAL SHEETS: 14 1796 - 6340 NAD83 COORDINATES 154 - 1773 LAMBERT COORDINATES	
Principal Civil Engineer		AS BUILT	
Landscape: _____		DRAWING NO. G075	
CONTRACTOR: _____ INSPECTOR: _____		DATE COMPLETED: _____	



ANCHOR RETAINING WALL #2 PROFILE
SCALE: 1" = 6' H: V



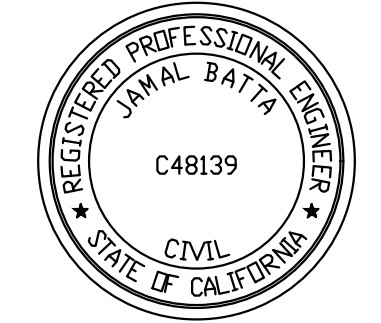
ANCHOR RETAINING WALL #2 PROFILE
SCALE: 1" = 6' H: V

ANCHOR RETAINING WALL PLANS FOR OTAY RANCH VILLAGE 8 EAST

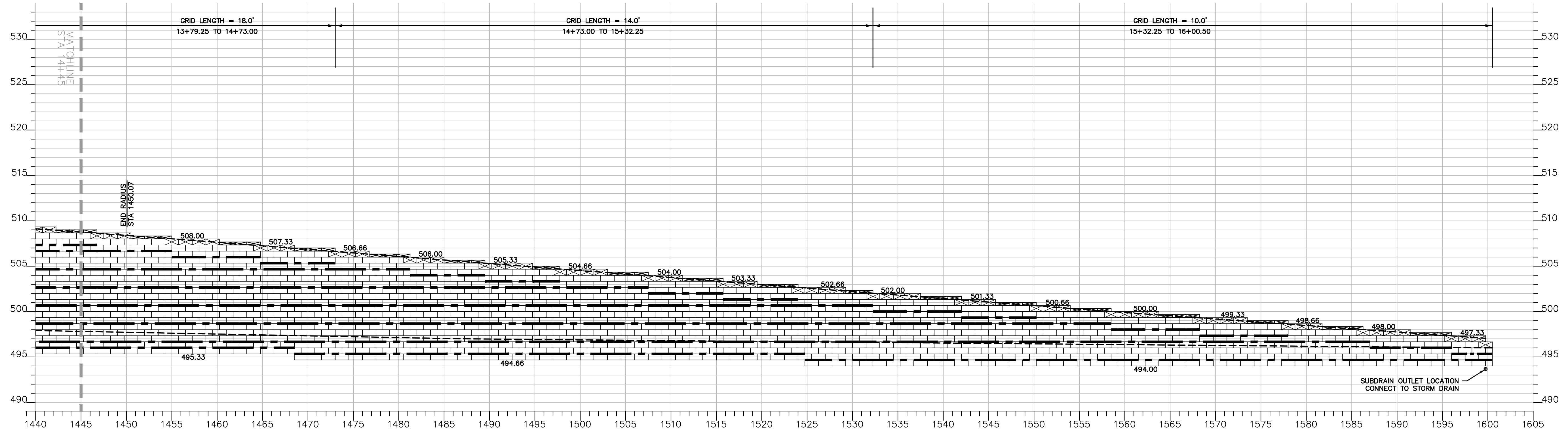
AS BUILT		UTILITY NOTE	
SIGNATURE _____	Date _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
Printed Name _____	P.E. No. _____		
My Registration Expires _____	Discipline _____		

LEGEND

- 4" CAP UNIT
- 8" CAP UNIT
- GEOHOLD PRO UNIT
- MIRAGRID 8XT
- MIRAGRID 10XT W/PIPE
- FINISH GRADE
- GRID CHANGE



		RETAINING WALL PLAN SHEET FOR OTAY RANCH VILLAGE 8 EAST CHULA VISTA TRACT NO. 22-0005	
DEVELOPMENT SERVICES DEPARTMENT		ACCELA NO.: XXXX PROJECT NO.: XXXX	
Approved: _____ By: _____ Principal Civil Engineer		TOTAL SHEETS: 14 1796 - 6340	
Submitted: _____ By: _____		NAD83 COORDINATES 154 - 1773	
Planning: _____ Landscape: _____		LAMBERT COORDINATES	
AS BUILT		DRAWING NO. G076	
CONTRACTOR: _____ INSPECTOR: _____		DATE COMPLETED: _____	



ANCHOR RETAINING WALL #2 PROFILE
SCALE: 1" = 6' H: V

ANCHOR RETAINING WALL PLANS FOR OTAY RANCH VILLAGE 8 EAST

AS BUILT

Signature: _____ Date: _____
 Printed Name: _____ P.E. No.: _____
 My Registration Expires: _____ Discipline: _____

UTILITY NOTE

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LEGEND

4" CAP UNIT
 8" CAP UNIT
 GEOHOLD PRO UNIT
 MIRAGRID 8x8
 MIRAGRID 10x12 W/PIPE
 FINISH GRADE
 GRID CHANGE

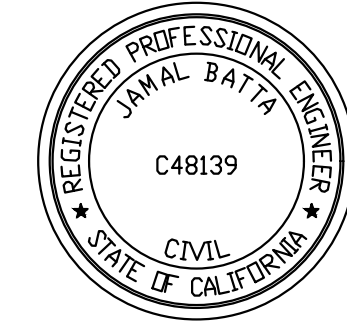


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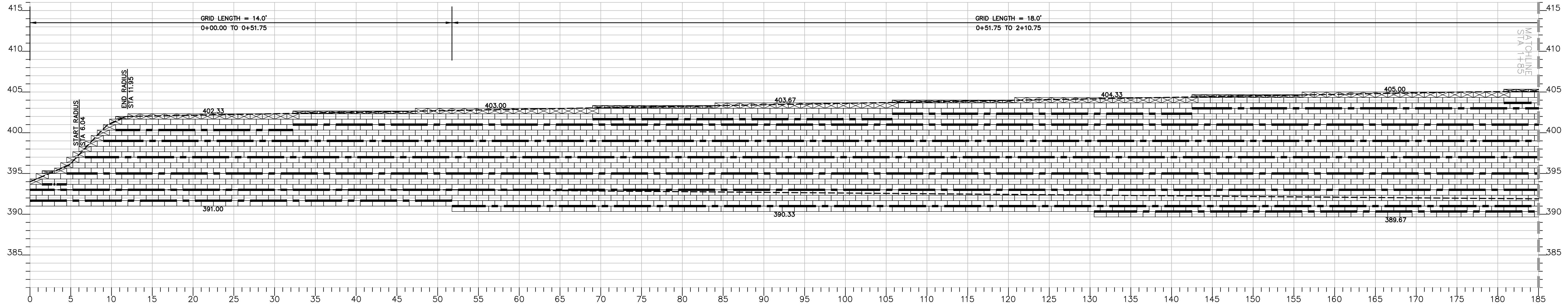
PREPARED FOR THE EXCLUSIVE USE OF

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 TEL 760 509 0079

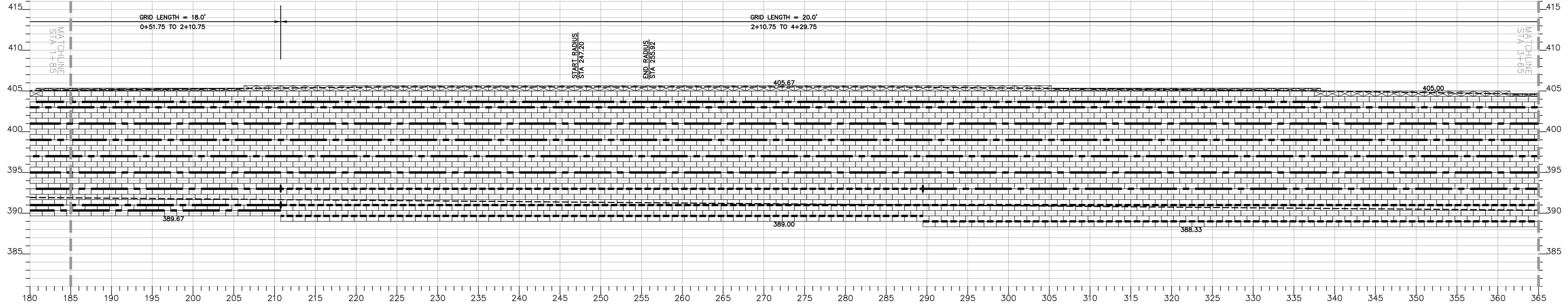
GEOGRID
 RETAINING WALL SYSTEMS, INC.
 JOB #23062G



0 1/2 1 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING NOT TO SCALE		RETAINING WALL PLAN SHEET FOR OTAY RANCH VILLAGE 8 EAST CHULA VISTA TRACT NO. 22-0005	
DEVELOPMENT SERVICES DEPARTMENT		ACCELA NO.: XXXX PROJECT NO.: XXXX	
Approved: _____ By: _____ Principal Civil Engineer		TOTAL SHEETS: 14 1796 - 6340	
Submitted: _____ By: _____		NAD83 COORDINATES 154 - 1773	
Planning: _____ Landscape: _____		LAMBERT COORDINATES	
AS BUILT		DRAWING NO. G077	
CONTRACTOR: _____ INSPECTOR: _____ DATE COMPLETED: _____		XXXXX.XXX	



ANCHOR RETAINING WALL #3 PROFILE
SCALE: 1" = 6' H: V



ANCHOR RETAINING WALL #3 PROFILE
SCALE: 1" = 6' H: V

ANCHOR RETAINING WALL PLANS FOR OTAY RANCH VILLAGE 8 EAST

AS BUILT		UTILITY NOTE	
SIGNATURE _____	Date _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
Printed Name _____	P.E. No. _____		
My Registration Expires _____	Discipline _____		
REFERENCE DRAWINGS	REVISIONS	By	Date
C.V. DWG. NO.			

LEGEND

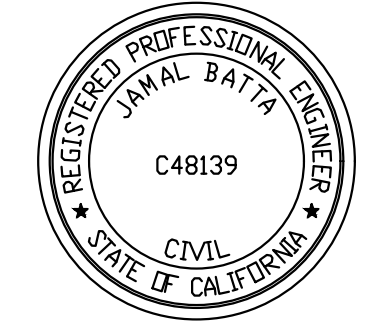
- 4" CAP UNIT
- 8" CAP UNIT
- GEOHOLD PRO UNIT
- MIRAGRID 8XT
- MIRAGRID 10XT W/PIPE
- FINISH GRADE
- GRID CHANGE



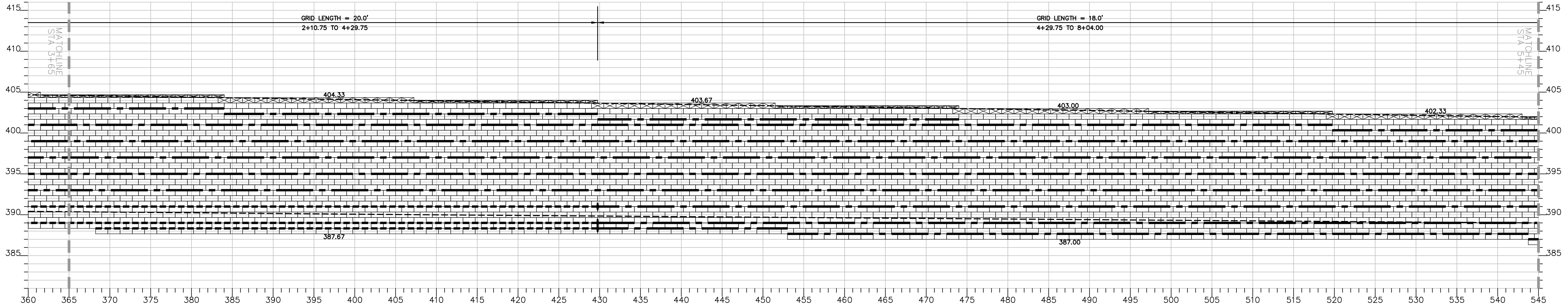
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760-802-1772 MATT@M3CE.COM

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TEL 760 509 0079

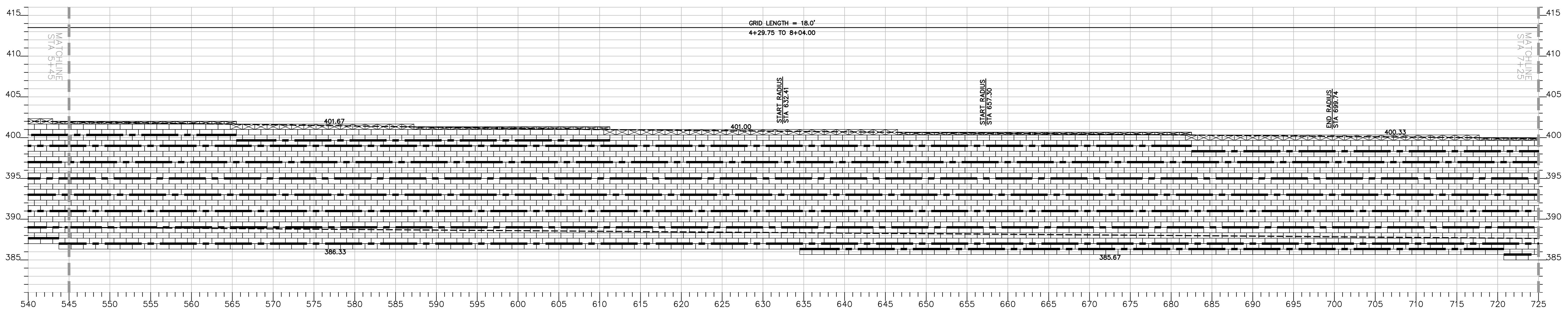
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RETAINING WALL SYSTEMS, INC
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		RETAINING WALL PLAN SHEET FOR OTAY RANCH VILLAGE 8 EAST CHULA VISTA TRACT NO. 22-0005	
DEVELOPMENT SERVICES DEPARTMENT		ACCELA NO.: XXXX PROJECT NO.: XXXX	
Approved: _____ By: _____ Principal Civil Engineer		TOTAL SHEETS: 14 1796 - 6340	
Submitted: _____ By: _____		NAD83 COORDINATES 154 - 1773	
Planning: _____ Landscape: _____		LAMBERT COORDINATES	
AS BUILT		DRAWING NO. G078	
CONTRACTOR: _____ INSPECTOR: _____		DATE COMPLETED: _____	



ANCHOR RETAINING WALL #3 PROFILE
SCALE: 1" = 6' H: V



ANCHOR RETAINING WALL #3 PROFILE
SCALE: 1" = 6' H: V

ANCHOR RETAINING WALL PLANS FOR OTAY RANCH VILLAGE 8 EAST

AS BUILT		UTILITY NOTE	
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LEGEND

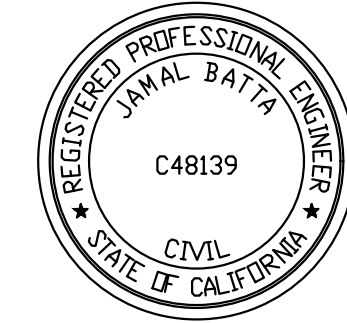
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- 8" CAP UNIT
- GEOHOLD PRO UNIT
- MIRAGRID 8XT
- MIRAGRID 10XT W/PIPE
- FINISH GRADE
- GRID CHANGE



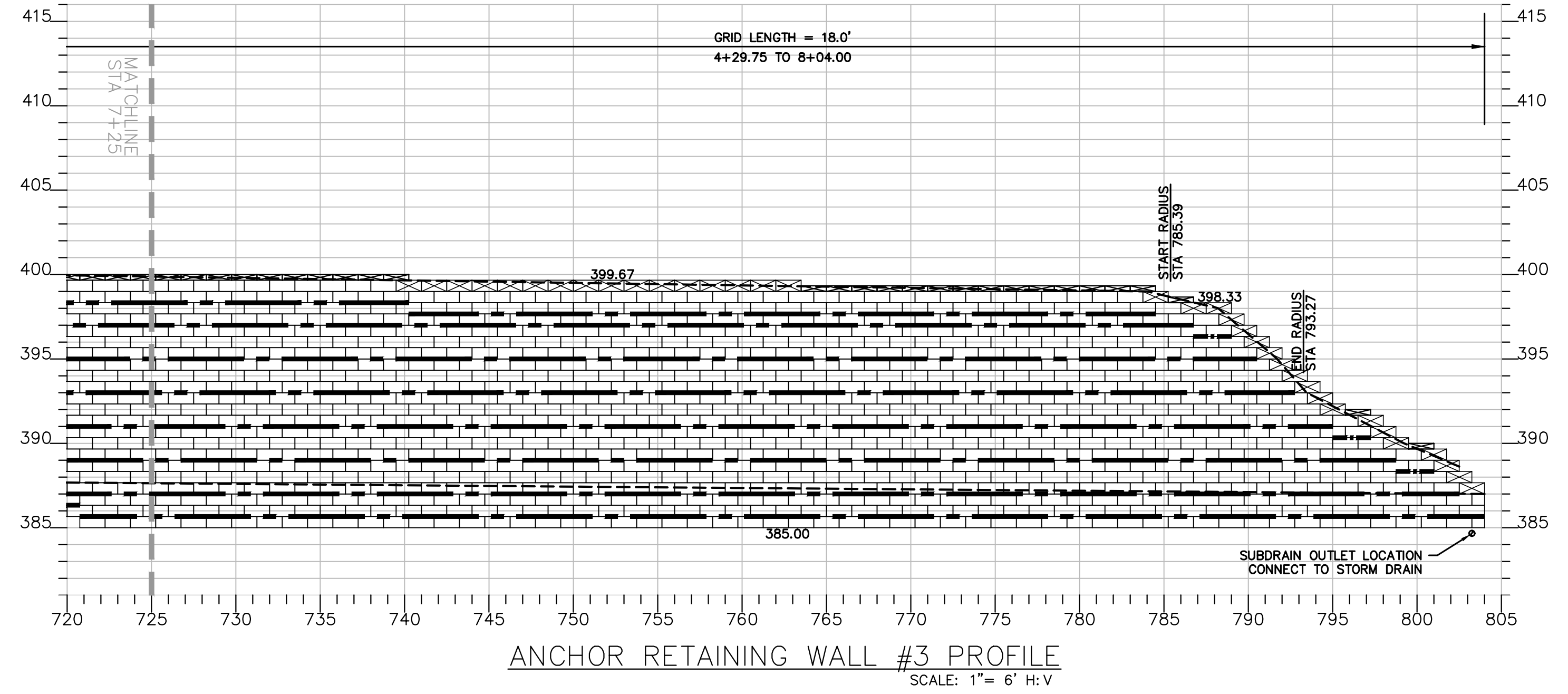
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<p>IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING NOT TO SCALE</p>		<p align="center">RETAINING WALL PLAN SHEET FOR OTAY RANCH VILLAGE 8 EAST</p> <p align="center">CHULA VISTA TRACT NO. 22-0005</p>	
<p align="center">DEVELOPMENT SERVICES DEPARTMENT</p>		<p>ACCELA NO.: XXXX</p> <p>PROJECT NO.: XXXX</p>	
<p>Approved: _____</p> <p>By: _____</p> <p align="center">Principal Civil Engineer</p>		<p>TOTAL SHEETS: 14</p> <p>1796 - 6340</p>	
<p>Submitted: _____</p> <p>By: _____</p>		<p>NAD83 COORDINATES</p> <p>154 - 1773</p>	
<p>Planning: _____</p> <p>Landscape: _____</p>		<p>LAMBERT COORDINATES</p>	
<p align="center">AS BUILT</p>		<p>DRAWING NO. G079</p>	
<p>CONTRACTOR: _____</p> <p>INSPECTOR: _____</p>		<p>DATE COMPLETED: _____</p>	



ANCHOR RETAINING WALL PLANS FOR OTAY RANCH VILLAGE 8 EAST

<p>IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING NOT TO SCALE</p>	RETAINING WALL PLAN SHEET FOR OTAY RANCH VILLAGE 8 EAST CHULA VISTA TRACT NO. 22-0005
DEVELOPMENT SERVICES DEPARTMENT	ACCELA NO.: XXXX PROJECT NO.: XXXX
Approved: _____ By: _____ Principal Civil Engineer	TOTAL SHEETS: 14 1796 - 6340
Submitted: _____ By: _____	NAD83 COORDINATES 154 - 1773
Planning: _____ Landscape: _____	LAMBERT COORDINATES
AS BUILT	DRAWING NO. G080
CONTRACTOR: _____ INSPECTOR: _____	XXXXX.XXX DATE COMPLETED: _____

AS BUILT	UTILITY NOTE																		
Signature: _____ Date: _____ Printed Name: _____ P.E. No.: _____ My Registration Expires: _____ Discipline: _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.																		
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LEGEND

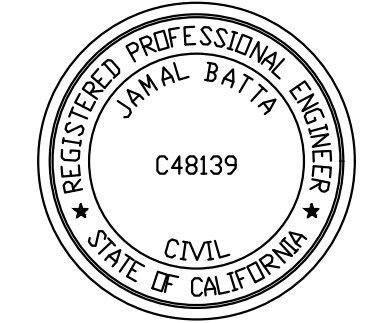
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 8" CAP UNIT
 GEOHOLD PRO UNIT
 MIRAGRID 8XT
 MIRAGRID 10XT W/PIPE
 FINISH GRADE
 GRID CHANGE



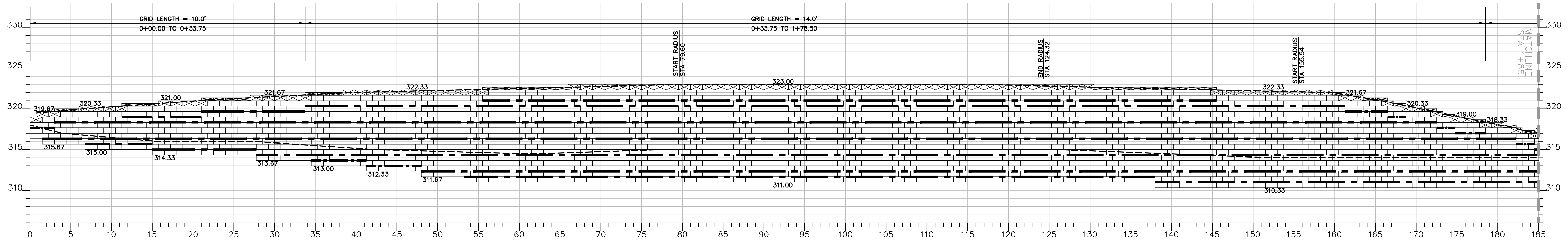
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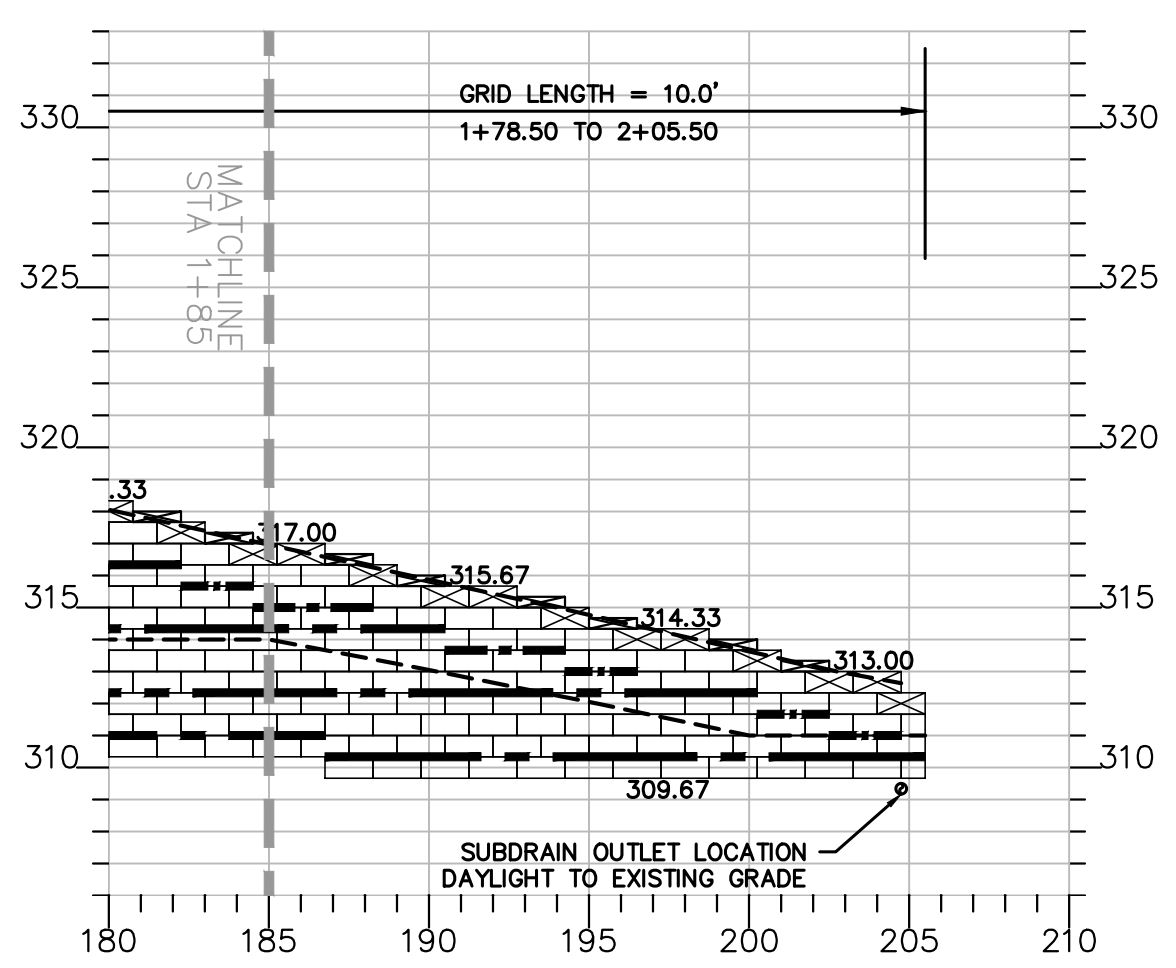
GEOGRID
 RETAINING WALL SYSTEMS, INC.
 JOB #23062G



THE CITY OF
CHULA VISTA



ANCHOR RETAINING WALL #4 PROFILE
SCALE: 1" = 6' H: V



ANCHOR RETAINING WALL #4 PROFILE
SCALE: 1" = 6' H: V

LEGEND

- 4" CAP UNIT
- 8" CAP UNIT
- GEOHOLD PRO UNIT
- MIRAGRID 8XT
- MIRAGRID 10XT W/PIPE
- FINISH GRADE
- GRID CHANGE

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AS BUILT

SIGNATURE _____ Date _____

Printed Name _____ P.E. No. _____

My Registration Expires _____ Discipline _____

REFERENCE DRAWINGS	REVISIONS	By	Date	App'd
C.V. DWG. NO.				

REVISIONS	By	Date	App'd

REVISIONS	By	Date	App'd

Designed By: _____ Drawn By: _____ Checked By: _____

Plans Prepared Under Supervision Of: _____ Date: _____

MATTHEW M. MERRITT R.C.E. No. 68429



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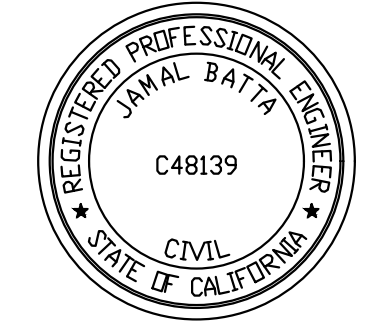
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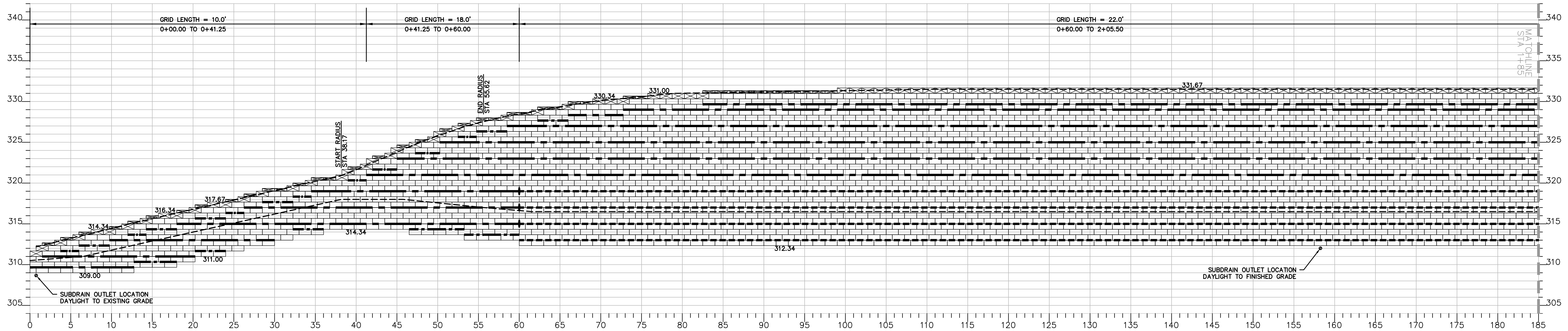
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JOE #23062G

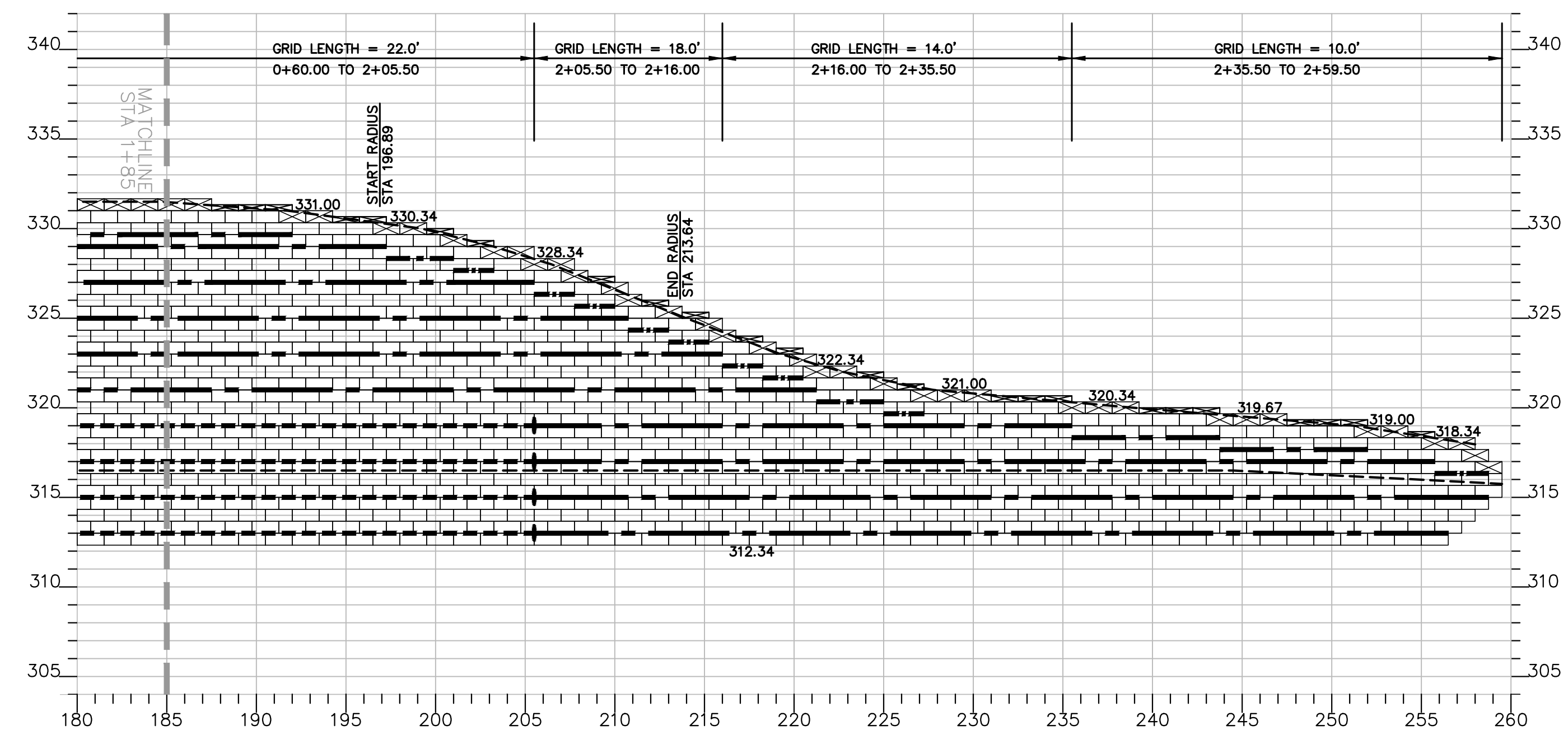


THE CITY OF CHULA VISTA

<p>IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING NOT TO SCALE</p>		<p>RETAINING WALL PLAN SHEET FOR OTAY RANCH VILLAGE 8 EAST</p> <p>CHULA VISTA TRACT NO. 22-0005</p>	
<p>DEVELOPMENT SERVICES DEPARTMENT</p>		<p>ACCELA NO.: XXXX</p> <p>PROJECT NO.: XXXX</p>	
<p>Approved: _____</p> <p>By: _____</p> <p>Principal Civil Engineer</p>		<p>TOTAL SHEETS: 14</p> <p>1796 - 6340</p>	
<p>Submitted: _____</p> <p>By: _____</p>		<p>NAD83 COORDINATES</p> <p>154 - 1773</p>	
<p>Planning: _____</p> <p>Landscape: _____</p>		<p>LAMBERT COORDINATES</p>	
<p>AS BUILT</p>		<p>DRAWING NO. G081</p>	
<p>CONTRACTOR: _____</p> <p>INSPECTOR: _____</p>		<p>XXXXX.XXX</p> <p>DATE COMPLETED: _____</p>	



ANCHOR RETAINING WALL #5 PROFILE
SCALE: 1" = 6' H:V



ANCHOR RETAINING WALL #5 PROFILE
SCALE: 1" = 6' H:V

ANCHOR RETAINING WALL PLANS FOR OTAY RANCH VILLAGE 8 EAST

AS BUILT		UTILITY NOTE	
Signature _____	Date _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.	
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LEGEND

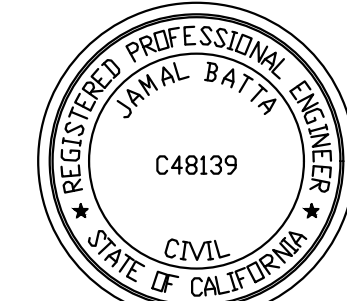
- 4" CAP UNIT
- 8" CAP UNIT
- GEOHOLD PRO UNIT
- MIRAGRID 8XT
- MIRAGRID 10XT W/PIPE
- FINISH GRADE
- GRID CHANGE



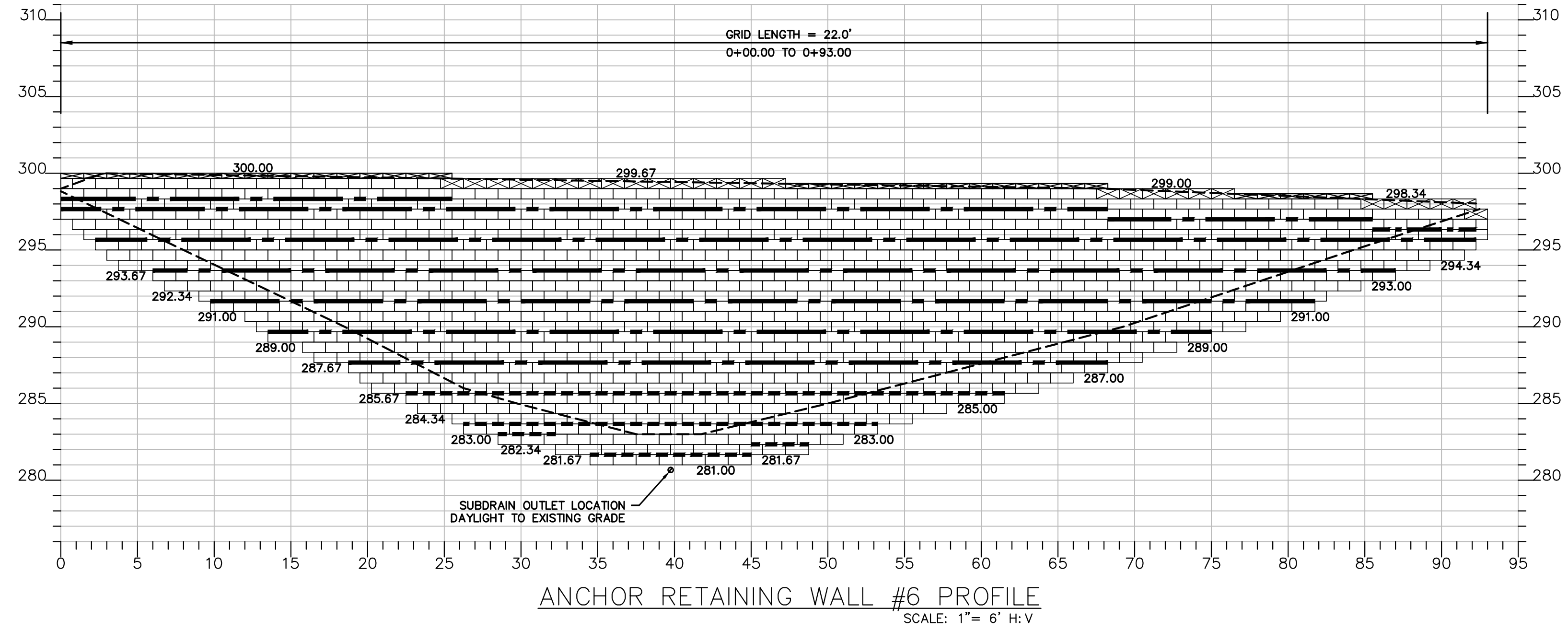
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<p align="center">DEVELOPMENT SERVICES DEPARTMENT</p>		<p>ACCELA NO.: XXXX</p> <p>PROJECT NO.: XXXX</p>	
<p>Approved: _____</p> <p>By: _____ Principal Civil Engineer</p>		<p>TOTAL SHEETS: 14</p> <p>1796 - 6340</p>	
<p>Submitted: _____</p> <p>By: _____</p>		<p>NAD83 COORDINATES</p> <p>154 - 1773</p>	
<p>Planning: _____</p> <p>Landscape: _____</p>		<p>LAMBERT COORDINATES</p>	
<p align="center">AS BUILT</p>		<p>DRAWING NO. G082</p>	
<p>CONTRACTOR: _____</p> <p>INSPECTOR: _____</p>		<p>DATE COMPLETED: _____</p>	



ANCHOR RETAINING WALL PLANS FOR OTAY RANCH VILLAGE 8 EAST

<p>IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING NOT TO SCALE</p>		<p align="center">RETAINING WALL PLAN SHEET FOR OTAY RANCH VILLAGE 8 EAST</p> <p align="center">CHULA VISTA TRACT NO. 22-0005</p>	
<p align="center">DEVELOPMENT SERVICES DEPARTMENT</p>		<p>ACCELA NO.: XXXX</p> <p>PROJECT NO.: XXXX</p>	
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<p>Submitted: _____</p> <p>By: _____</p>		<p>NAD83 COORDINATES</p> <p>154 - 1773</p>	
<p>Planning: _____</p> <p>Landscape: _____</p>		<p>LAMBERT COORDINATES</p>	
<p align="center">AS BUILT</p>		<p>DRAWING NO. G083</p>	
<p>CONTRACTOR: _____</p> <p>INSPECTOR: _____</p>		<p>DATE COMPLETED: _____</p>	

<p align="center">AS BUILT</p>		<p align="center">UTILITY NOTE</p>	
<p>SIGNATURE _____</p> <p>Printed Name _____</p> <p>My Registration Expires _____</p>	<p>Date _____</p> <p>P.E. No. _____</p> <p>Discipline _____</p>	<p>ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.</p>	

LEGEND

4" CAP UNIT
8" CAP UNIT
GEOHOLD PRO UNIT
MIRAGRID 8XT
MIRAGRID 10XT W/PIPE
FINISH GRADE
GRID CHANGE



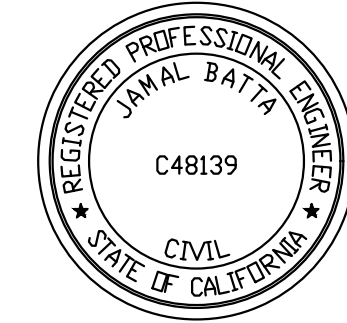
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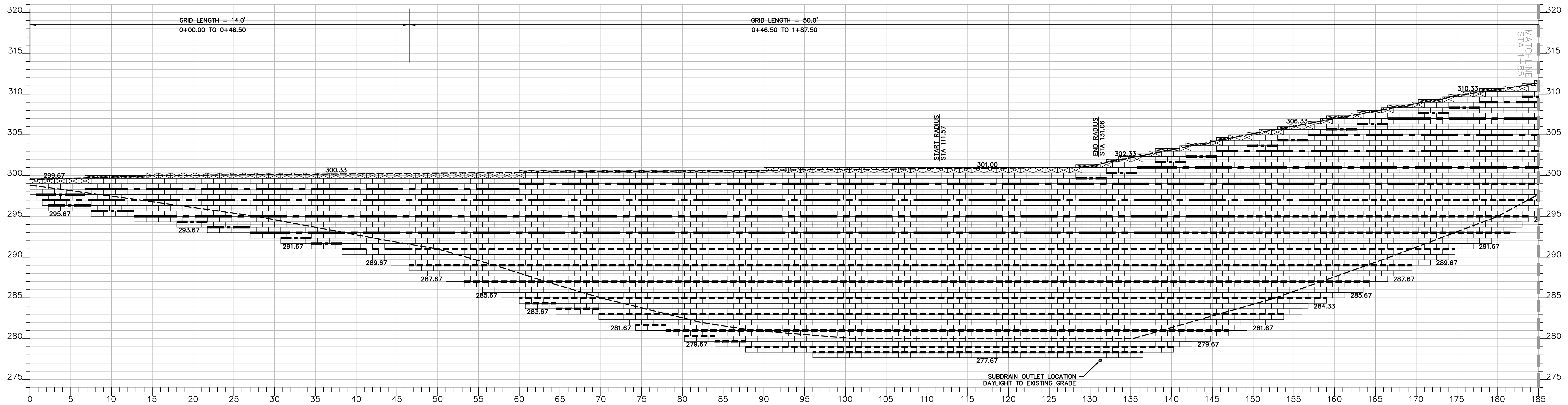
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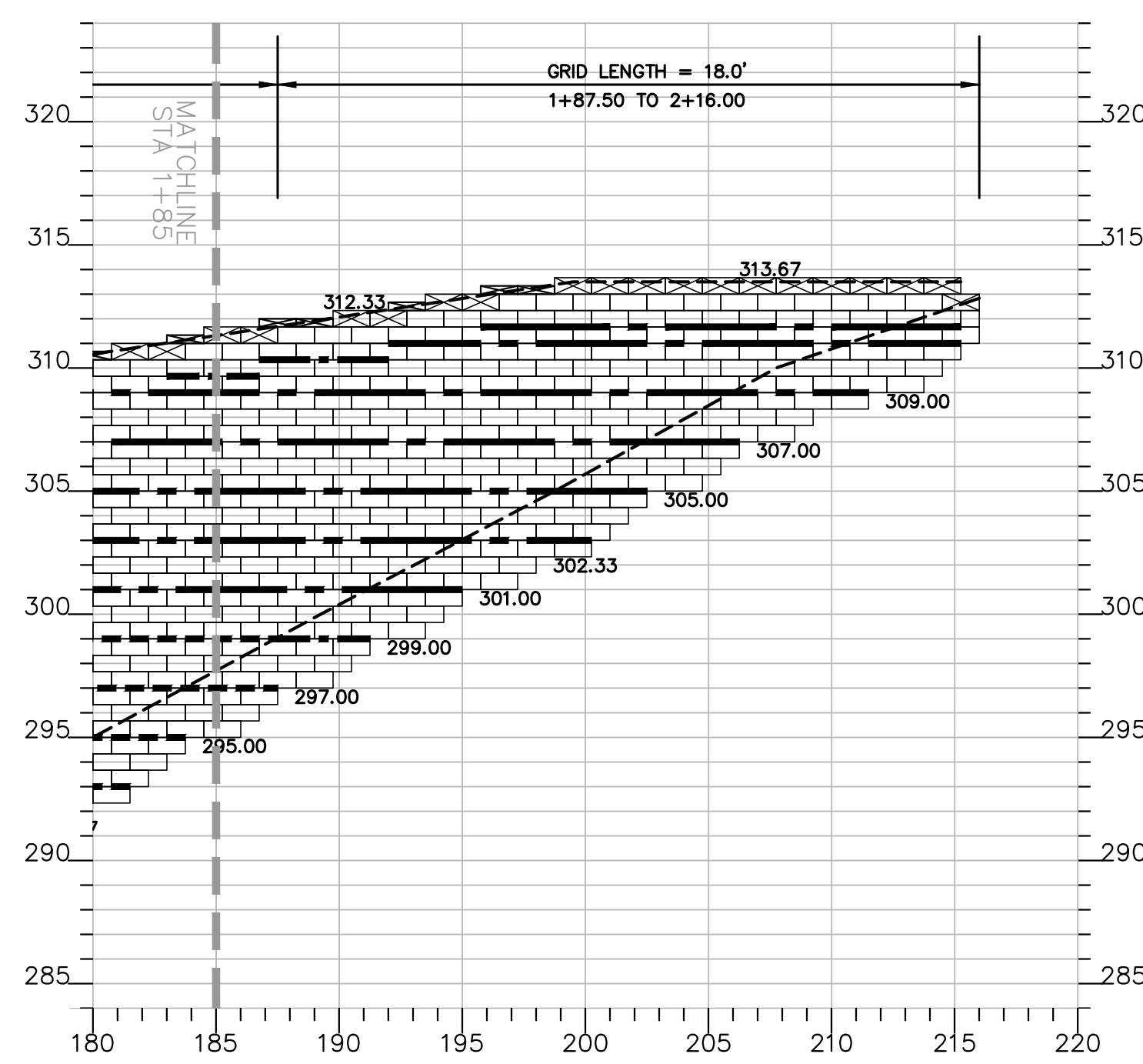
GEOGRID
RETAINING WALL SYSTEMS, INC.
JOB #23062G



THE CITY OF CHULA VISTA



ANCHOR RETAINING WALL #7 PROFILE
SCALE: 1" = 6' H:V



ANCHOR RETAINING WALL #7 PROFILE
SCALE: 1" = 6' H:V

LEGEND

- 4" CAP UNIT
- 8" CAP UNIT
- GEOHOLD PRO UNIT
- MIRAGRID 8XT
- MIRAGRID 10XT W/PIPE
- FINISH GRADE
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Printed Name _____ P.E. No. _____

My Registration Expires _____ Discipline _____

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C.V. DWG. NO.				

REVISIONS	By	Date	App'd

REVISIONS	By	Date	App'd	Designed By:	Drawn By:	Checked By:
				MMM	MMM	MMM
				Plans Prepared Under Supervision Of:	Date:	
				MATTHEW M. MERRITT	R.C.E. No. 68429	



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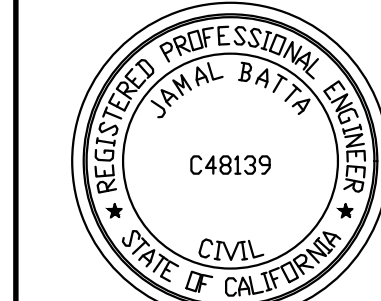
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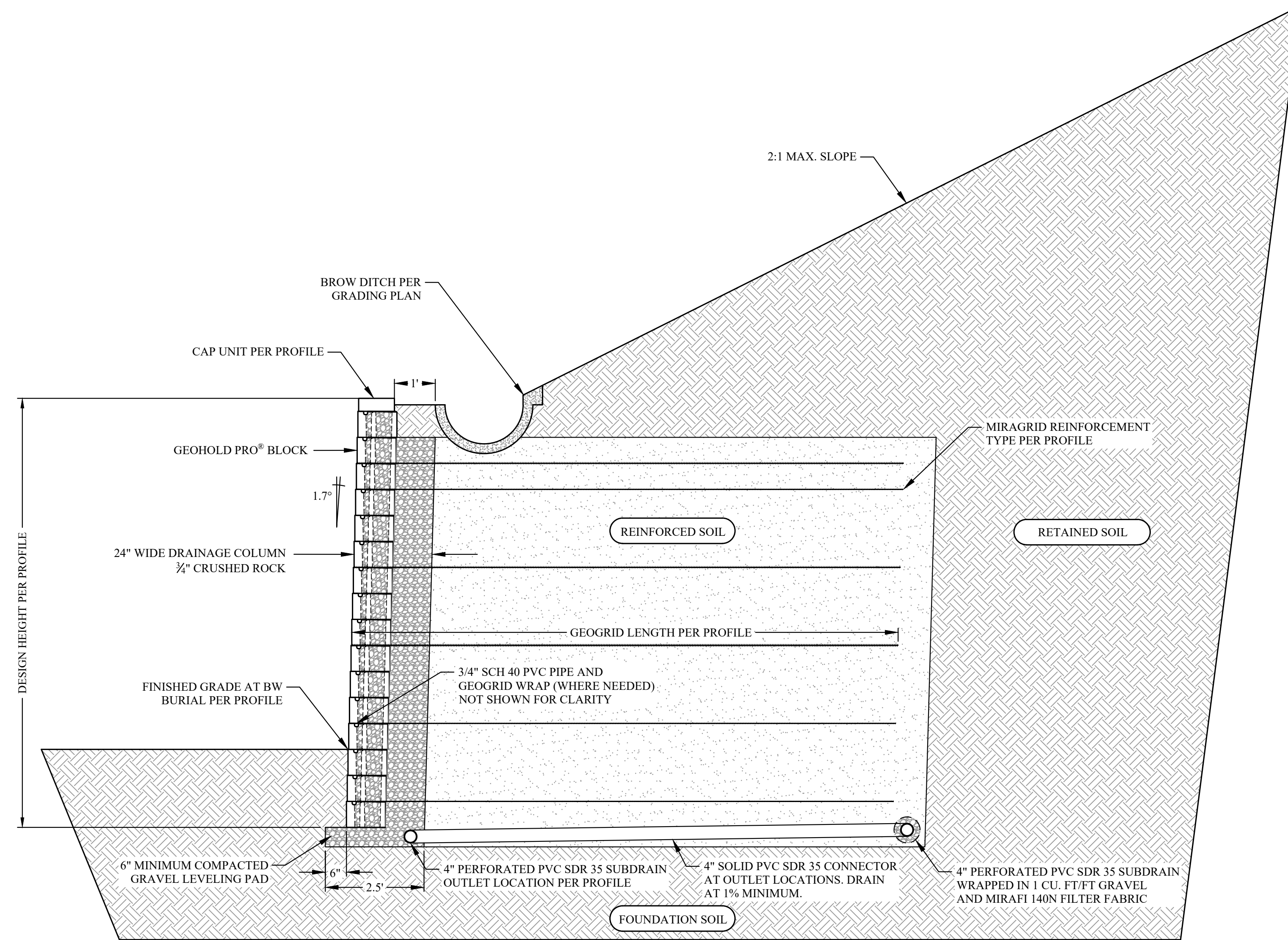
RETAINING WALL SYSTEMS, INC

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THE CITY OF CHULA VISTA

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<p>DEVELOPMENT SERVICES DEPARTMENT</p>		<p>ACCELA NO.: XXXX</p> <p>PROJECT NO.: XXXX</p>	
<p>Approved: _____</p> <p>By: _____</p> <p style="text-align: center;">Principal Civil Engineer</p>		<p>TOTAL SHEETS: 14</p> <p>1796 - 6340</p>	
<p>Submitted: _____</p> <p>Planning: _____ Landscape: _____</p>		<p>NAD83 COORDINATES</p> <p>154 - 1773</p> <p>LAMBERT COORDINATES</p>	
<p>AS BUILT</p>		<p>DRAWING NO. G084</p>	
<p>CONTRACTOR: _____</p> <p>INSPECTOR: _____ DATE COMPLETED: _____</p>		<p>XXXXX.XXX</p>	



A
085 Anchor™ GeoHold Pro® Retaining Wall
TYPICAL NEAR VERTICAL WALL SECTION
NOT TO SCALE

ANCHOR RETAINING WALL PLANS FOR
OTAY RANCH VILLAGE 8 EAST

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<p>Submitted: _____</p> <p>By: _____</p>		<p>NAD83 COORDINATES</p> <p>154 - 1773</p>	
<p>Planning: _____</p> <p>Landscape: _____</p>		<p>LAMBERT COORDINATES</p>	
<p>AS BUILT</p>		<p>DRAWING NO. G085</p>	
<p>CONTRACTOR: _____</p> <p>INSPECTOR: _____</p>		<p>DATE COMPLETED: _____</p>	

AS BUILT	UTILITY NOTE
<p>Signature _____ Date _____</p> <p>Printed Name _____ P.E. No. _____</p> <p>My Registration Expires _____ Discipline _____</p>	<p>ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.</p>

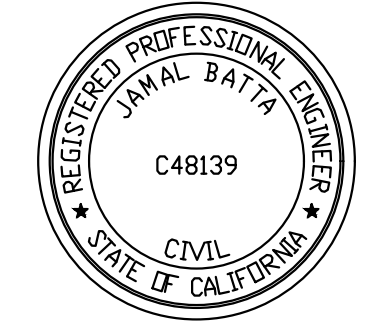
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													MATTHEW M. MERRITT		R.C.E. No. 68429



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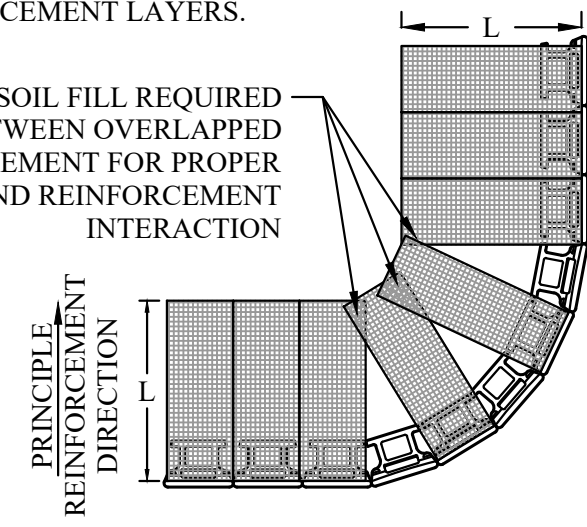
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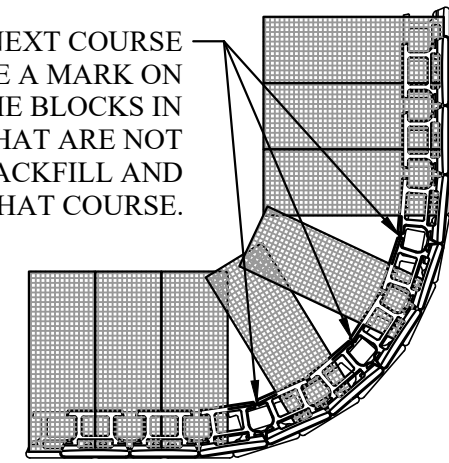
THE CITY OF
CHULA VISTA

STEP 1 - PLACE REINFORCEMENT SO LITTLE OR NO OVERLAP OCCURS IN THE RADIUS AREA. IF OVERLAP OCCURS, PLACE 2 TO 3 INCHES OF SAND BETWEEN THE REINFORCEMENT LAYERS.

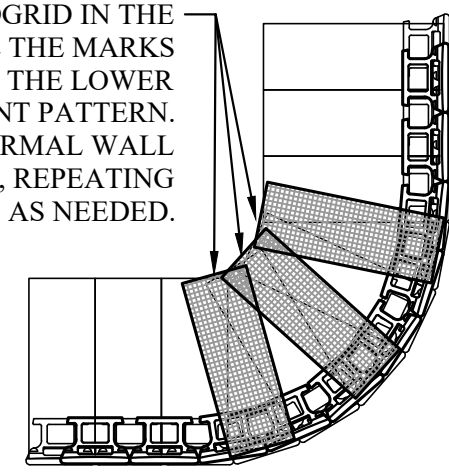
2"-3" OF SOIL FILL REQUIRED BETWEEN OVERLAPPED REINFORCEMENT FOR PROPER SOIL AND REINFORCEMENT INTERACTION



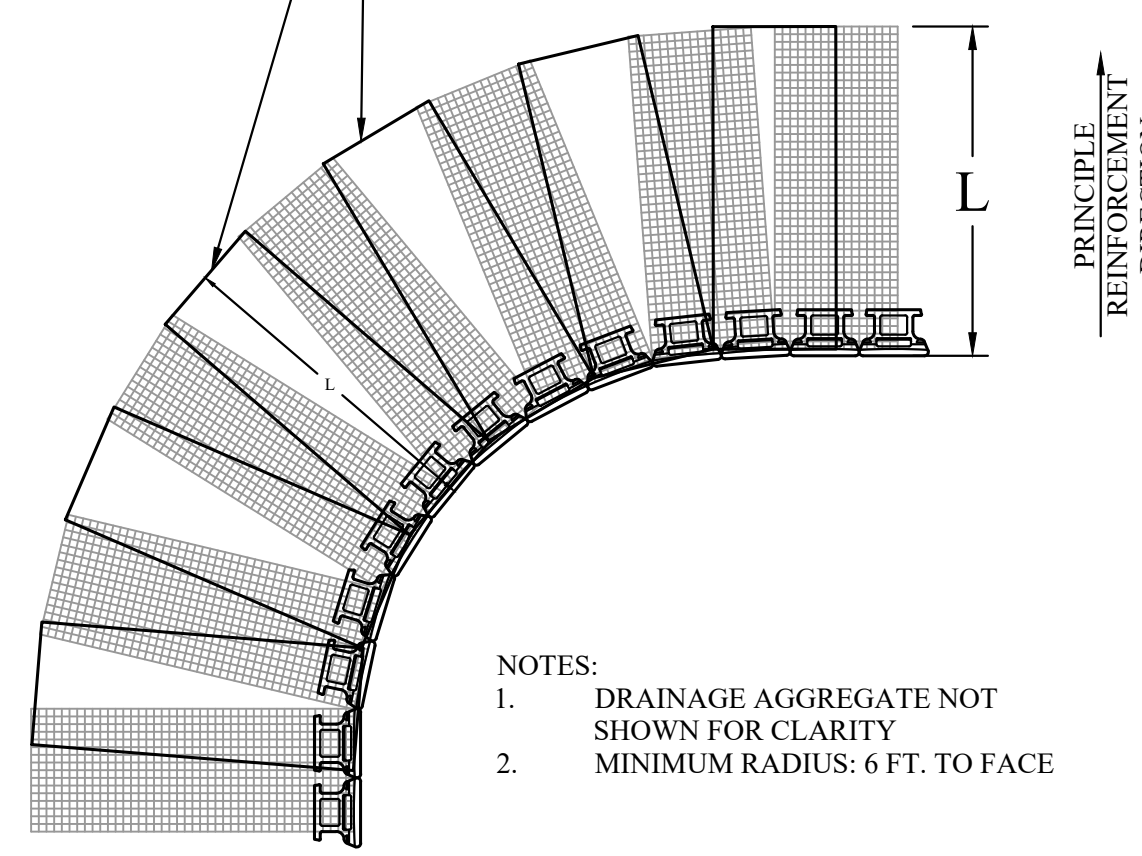
STEP 2: LAY THE NEXT COURSE OF BLOCK. MAKE A MARK ON THE BACK OF THE BLOCKS IN THE AREAS THAT ARE NOT REINFORCED. BACKFILL AND COMPACT THAT COURSE.



STEP 3: PLACE GEOGRID IN THE AREAS WHERE THE MARKS SHOW GAPS IN THE LOWER REINFORCEMENT PATTERN. CONTINUE NORMAL WALL CONSTRUCTION, REPEATING THESE STEPS AS NEEDED.

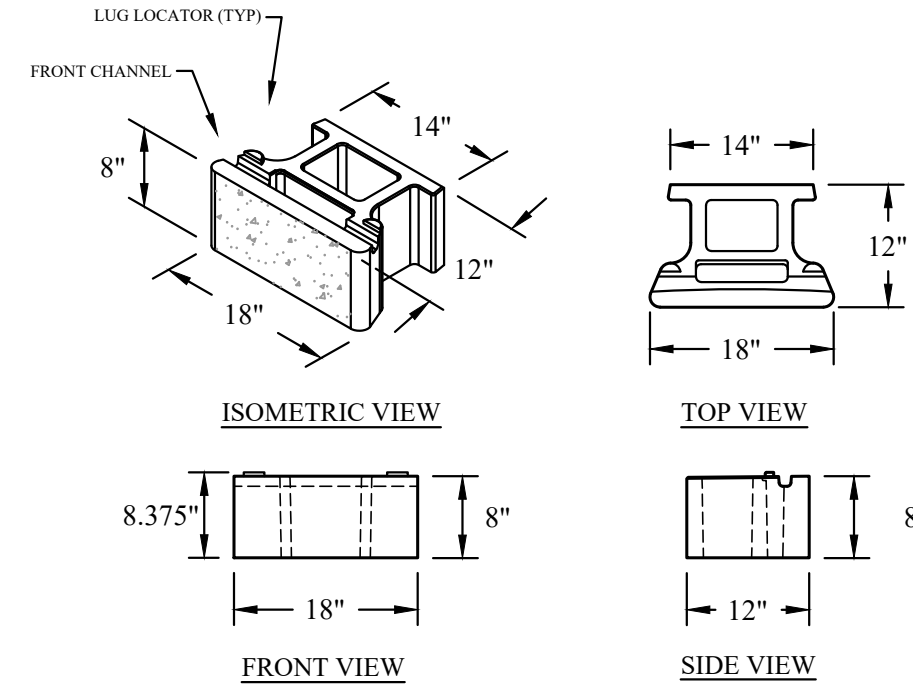


PLACE ADDITIONAL REINFORCEMENT ON THE NEXT COURSE OF SEGMENTAL UNITS IMMEDIATELY ABOVE THE SPECIFIED PLACEMENT ELEVATION IN A MANNER THAT ELIMINATED GAPS LEFT BY THE PREVIOUS LAYER OF GEOSYNTHETIC AT THE SPECIFIED REINFORCEMENT ELEVATION.

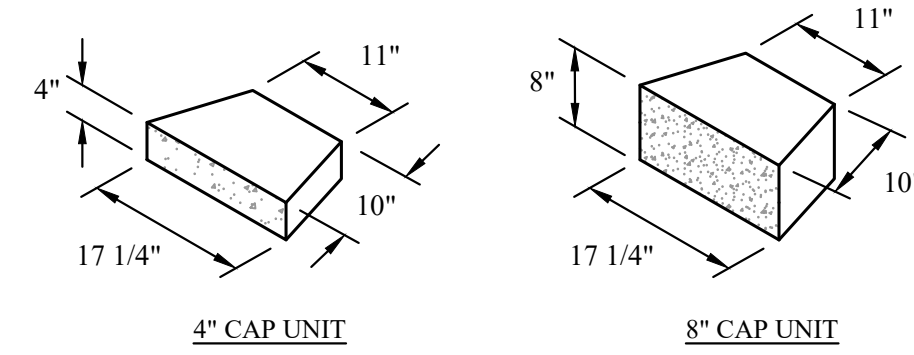


NOTES:
1. DRAINAGE AGGREGATE NOT SHOWN FOR CLARITY
2. MINIMUM RADIUS: 6 FT. TO FACE

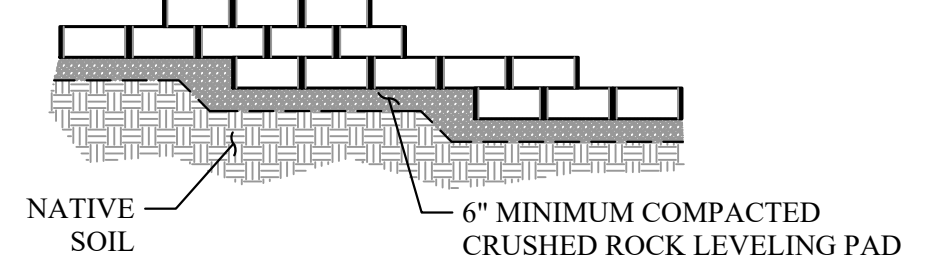
C Anchor™ GeoHold Pro® Retaining Wall INSIDE CURVE DETAILS NOT TO SCALE



D Anchor™ GeoHold Pro® Retaining Wall GEOHOLD PRO BLOCK DETAILS NOT TO SCALE

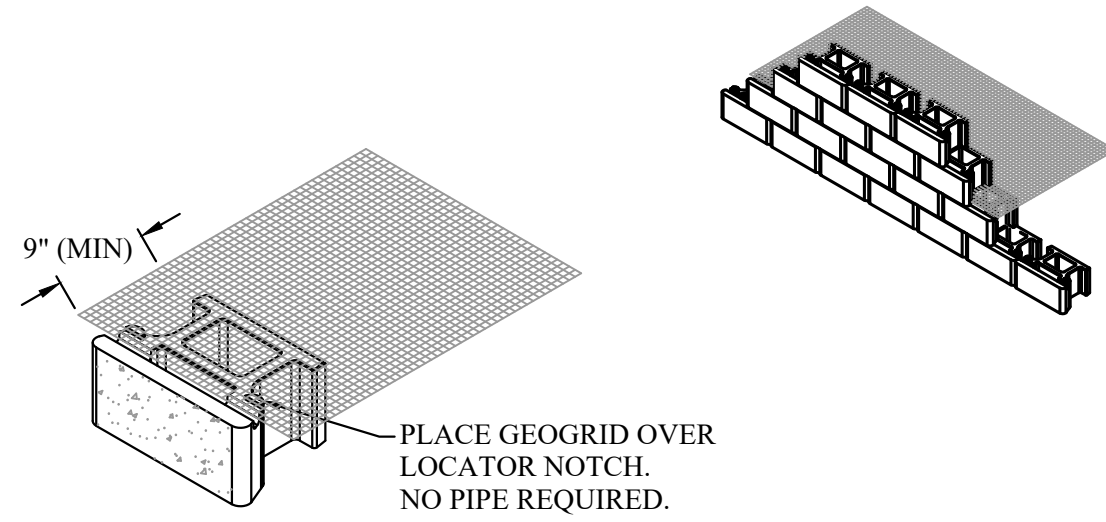


E Anchor™ GeoHold Pro® Retaining Wall ACCESSORY BLOCK DETAILS NOT TO SCALE



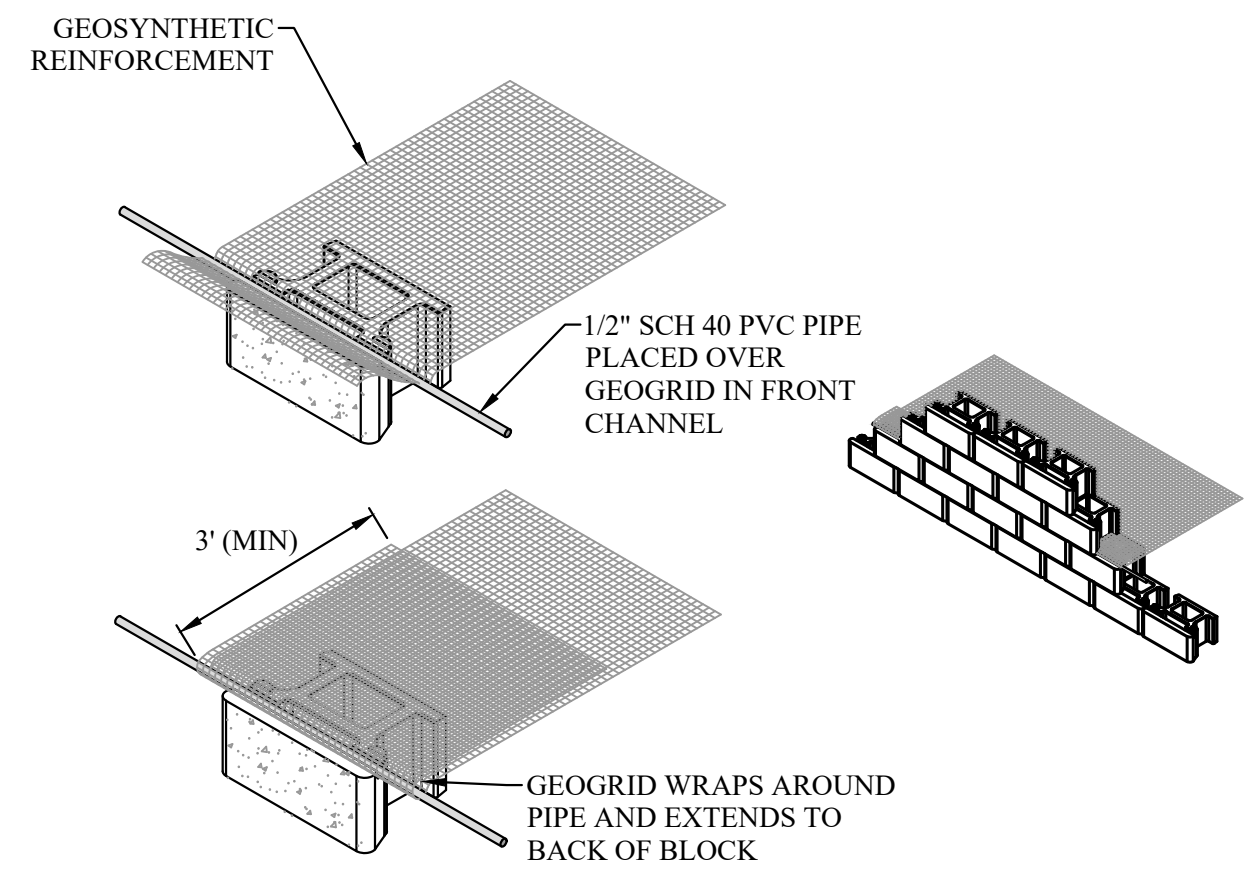
F Anchor™ GeoHold Pro® Retaining Wall LEVELING PAD STEP DETAIL NOT TO SCALE

B Anchor™ GeoHold Pro® Retaining Wall OUTSIDE CURVE DETAILS NOT TO SCALE



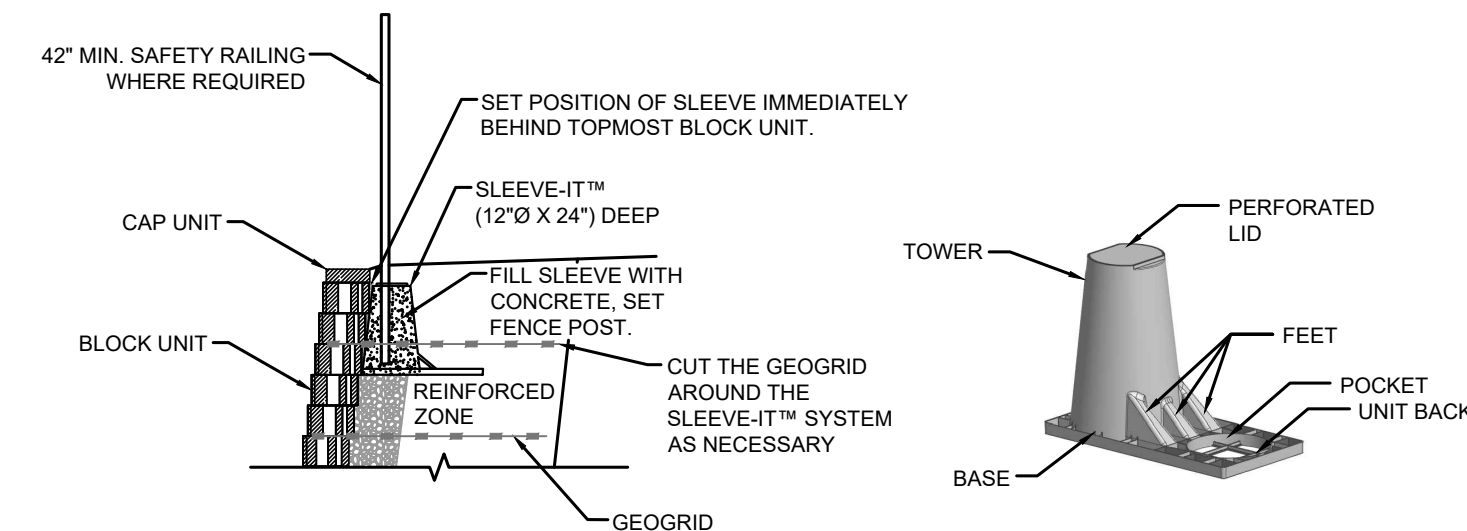
NOTES:
1. FOR USE WITH MIRAGRID 8XT LAYERS

G Anchor™ GeoHold Pro® Retaining Wall REINFORCEMENT CONNECTION DETAIL NO PIPE NOT TO SCALE



NOTES:
1. FOR USE WITH MIRAGRID 10XT LAYERS

H Anchor™ GeoHold Pro® Retaining Wall REINFORCEMENT CONNECTION DETAIL WITH PIPE NOT TO SCALE



THE SLEEVE-IT™ PRODUCT SHALL BE SPACED NO FARTHER APART THAN 8' ON CENTER. USE OF THE SLEEVE-IT™ SYSTEM IS LIMITED TO THE FOLLOWING FENCING APPLICATIONS WITHOUT CONSIDERATION OF WIND LOAD:
- 8-FOOT HIGH AND UNDER CHAIN LINK FENCES
- 6-FOOT HIGH AND UNDER WOOD FENCE WITH GAPS BETWEEN BOARDS
- 6-FOOT HIGH AND UNDER BALUSTRADED PVC, STEEL, ALUMINUM OR WROUGHT IRON FENCES.
FOR OTHER FENCING SYSTEMS SPECIFICALLY NOT MEETING THESE CRITERIA, CONTACT STRATA SYSTEMS INC., TO DETERMINE SUITABILITY. 1 (800) 680-7750 OR EMAIL STRATA@GEOGRID.COM

I DETAIL OF FENCE POST INSTALLATION USING SLEEVE-IT™ NOT TO SCALE

AS BUILT	UTILITY NOTE
SIGNATURE _____ Date _____	ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.
Printed Name _____ P.E. No. _____	
My Registration Expires _____ Discipline _____	

REFERENCE DRAWINGS	REVISIONS	By	Date	App'd
C.V. DWG. NO.				

REVISIONS	By	Date	App'd

PREPARED FOR THE EXCLUSIVE USE OF
1295 DISTRIBUTION WAY
VISTA, CA 92081
TEL 760 509 0079

M&CE
M3 CIVIL ENGINEERING, INC.
PO BOX 923
OCEANSIDE, CA 92049
760-802-1772 MATT@M3CE.COM

GEOGRID
RETAINING WALL SYSTEMS, INC.
JOB #23062G

REGISTERED PROFESSIONAL ENGINEER
JUNIAL BATA
C48139
CIVIL
STATE OF CALIFORNIA

THE CITY OF CHULA VISTA

<p>IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING NOT TO SCALE</p>		<p>RETAINING WALL PLAN SHEET FOR OTAY RANCH VILLAGE 8 EAST</p> <p>CHULA VISTA TRACT NO. 22-0005</p>	
DEVELOPMENT SERVICES DEPARTMENT		ACCELA NO.: XXXX	
		PROJECT NO.: XXXX	
Approved: _____		TOTAL SHEETS: 14	
By: _____ Principal Civil Engineer		1796 - 6340	
Submitted: _____		NAD83 COORDINATES	
By: _____		154 - 1773	
Planning: _____		LAMBERT COORDINATES	
Landscape: _____			
AS BUILT		DRAWING NO. G086	
CONTRACTOR: _____		XXXXX.XXX	
INSPECTOR: _____		DATE COMPLETED: _____	

DESIGN CRITERIA

CONCRETE WALLS:

CONCRETE: f'c = 4,000 psi
REINFORCING: fy = 60,000 psi (GRADE 60 OR BETTER)

ALL WALLS:

SOIL: UNIT WEIGHT = 120 PSF
ACTIVE FLUID PRESSURE = 40 PCF (LEVEL BACKFILL), 55 PCF (2:1 BACKFILL)
SEISMIC LOAD = 15xH PCF/FT TRIANGULAR LOADING APPLIED AT 1/3 H FOR WALLS > 6'-0" HIGH
ALLOWABLE BEARING = 2,000 PSF WITH INCREASE UP TO 4,000 PSF INCREASE 500 PSF/FT FOR EACH FOOT OF DEPTH BEYOND 1 FT INCREASE 300 PSF/FT FOR EACH FOOT OF WIDTH BEYOND 1 FT (ALLOWABLE 1/3 INCREASE FOR SEISMIC LOADING)
ALLOWABLE PASSIVE = 350 PSF (LEVEL)
FRICTION = 0.35 (CONCRETE TO SOIL)
GEOTECH REPORT BY: GEOCON INC., PROJECT NO: G1006-52-05
DATED: SEPTEMBER 30, 2022, REVISED MAY 5, 2023

MASONRY:

- 1. ALL BLOCK UNITS SHALL BE GRADE "N" HOLLOWCORE, MEDIUM WEIGHT UNITS CONFORMING TO ASTM C-90, LATEST REVISION, WITH A MAXIMUM SHRINKAGE OF 0.06% FROM THE SATURATED TO OVEN-DRY CONDITION. F'm TO BE ESTABLISHED PER CBC SECTIONS 2106 WITH REFERENCE TO 2105.2.2.1 (UNIT STRENGTH METHOD). USE OPEN END UNITS AT VERTICAL REINFORCING.

THE MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE AS LISTED BELOW:

Table with 7 columns: DESIGN STRENGTH fm', BLOCK UNIT NET STRENGTH, GROUT STRENGTH, MORTAR TYPE, PRISM TEST, REMARKS, SPECIAL INSPECTION. Row 1: 2,000 PSI, 2,000 PSI, 2,000 PSI, S, NO, ASTM C-90, YES

- 2. BLOCK TO BE SLUMP BLOCK AND COLOR PER OWNER.
3. MORTAR SHALL BE FRESHLY PREPARED AND UNIFORMLY MIXED AND IN THE FOLLOWING RATIO BY VOLUME: TYPE S MORTAR: ONE PART PORTLAND CEMENT 1/4 TO 1/2 PART LIME PUTTY DAMP LOOSE AGGREGATE: NOT LESS THAN 2-1/4 AND NOT MORE THAN 3 TIMES THE SUM OF THE VOLUMES OF THE CEMENT AND LIME USED
4. GROUT SHALL BE COMPOSED OF THE FOLLOWING RATIO BY VOLUME: ONE PART PORTLAND CEMENT, TWO PARTS PEA GRAVEL, THREE PARTS SAND, AND WATER WHICH WILL COMPLETELY FILL ALL VOIDS IN THE WALL AND DEVELOP THE STRENGTH REQUIRED IN THE TABLE ABOVE.
5. MAXIMUM HEIGHT OF GROUT POUR SHALL BE 4'-8"(1.42m) UNLESS CLEANOUT OPENINGS ARE PROVIDED AT THE BOTTOM OF CELLS TO BE FILLED.
6. MINIMUM GROUTING: FILL ALL CELLS (SOLID GROUT), UNLESS OTHERWISE NOTED.
7. WHERE SPECIAL INSPECTION IS SPECIFIED, CONTINUOUS INSPECTION IS REQUIRED FOR ALL MASONRY. THE SPECIAL INSPECTOR SHALL BE RESPONSIBLE FOR:
i) VERIFICATION OF f'm SHALL BE BY UNIT STRENGTH TESTING OR TEST RECORDS PER CBC 2105.2.2.1.2.
ii) VERIFICATION OF INITIAL PLACEMENT OF MASONRY UNITS FOR OPEN END UNITS OR PLACEMENT OF ALL UNITS FOR CLOSED END UNITS.
iii) VERIFICATION OF REINFORCEMENT SIZE AND PLACEMENT PRIOR TO EACH GROUT OPERATION.
iv) INSPECTION OF GROUT SPACE PRIOR TO GROUT OPERATION AND MONITORING OF GROUT PLACEMENT AND CONSOLIDATION.
8. NO COLD JOINTS ARE PERMITTED UNLESS SPECIFICALLY DETAILED.
9. VERTICAL CELLS TO BE FILLED SHALL HAVE VERTICAL ALIGNMENT; ANY OVERHANGING MORTAR OR OTHER OBSTRUCTION OR DEBRIS SHALL BE REMOVED FROM THE INSIDES OF SUCH CELL WALLS.
10. THE SURFACE OF FOOTING OR SLAB AT THE GROUTED WALL JOINT AT THE FLOOR LINE SHALL BE ROUGHENED BY AN APPROVED METHOD PRIOR TO STARTING CONSTRUCTION OF THE MASONRY ABOVE.
11. ALL GROUT SHALL BE CONSOLIDATED AT THE TIME OF POURING BY VIBRATING WITH A 3/4"(1.9cm) VIBRATOR WITHIN THE CELLS BEING POURED.
12. WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE POUR OF GROUT 1 1/2" BELOW THE TOP OF THE UPPERMOST MASONRY UNIT.
13. PROVIDE ONE INCH MINIMUM GROUT COVER ON ALL BOLTS AND PLATES.
14. ALL HEAD JOINTS SHALL BE FULL BUTTERED OR OPEN END MASONRY UNITS SHALL BE USED.
15. PROVIDE 1/4"(0.64cm) MINIMUM CLEARANCE FROM INSIDE FACE OF BLOCK MASONRY CELLS AND MINIMUM OF ONE BAR DIAMETER, BUT NOT LESS THAN 3/4"(1.9cm) CLEAR DISTANCE BETWEEN PARALLEL BARS.
16. REINFORCING STEEL A.S.T.M. A-615, GRADE 60. MINIMUM LAP OF REINFORCING STEEL SHALL BE 48 BAR DIAMETERS FOR TYPICAL REINFORCING OR 2'-0"(0.61m) MINIMUM
17. REINFORCEMENT WELDING SHALL COMPLY WITH AWS D1.4 (LATEST EDITION). NO FIELD WELDING OF REINFORCING BARS, U.N.O.
18. ALL VERTICAL WALL REINFORCEMENT SHALL BE DOWELED TO THE FOUNDATION WITH THE SAME SIZE AND NUMBER OF BARS AS SHOWN IN THE WALLS.
19. VERTICAL BARS IN MASONRY UNITS SHALL BE TIED OR OTHERWISE FIXED IN POSITION AT INTERVALS OF NOT LESS THAN 4'-0" AND AT TOP AND BOTTOM.
20. HORIZONTAL REINFORCING SHALL BE PLACED IN BOND BEAM UNITS.
21. NO PIPES OR DUCTS SHALL BE PLACED IN MASONRY WALLS UNLESS SPECIFICALLY NOTED OR DETAILED.
22. REFER TO ARCHITECTURAL FOR BLOCK FINISH, AND MOLDS, ORNAMENTS, CLIPS, OR GROUNDS TO BE SET IN MASONRY.
23. IF NO REINFORCING IS SHOWN IN DETAILS FOR CMU WALLS, THEN USE A MINIMUM OF #4 @ 32" O.C. HORIZONTAL AND #5 @ 24" O.C. VERTICAL REINFORCING BARS.

CONCRETE:

- 1. ALL CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF A.C.I. 318-LATEST EDITION "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", EXCEPT AS MODIFIED BY THE SUPPLEMENTAL REQUIREMENTS CONTAINED HEREIN OR SHOWN ON THE DRAWINGS.
2. ALL CONCRETE SHALL BE 150 P.C.F. HARDROCK, MIXED PER A.S.T.M. C-94, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 P.S.I. AT 28 DAYS.
3. THE MAXIMUM SIZE AGGREGATE IN FOUNDATION AND MASS CONCRETE WORK SHALL BE 1 INCH. THE MAXIMUM SIZE AGGREGATE IN FOOTINGS.
4. CEMENT SHALL CONFORM TO A.S.T.M.. C-150, TYPE II OR V, LOW ALKALI. AGGREGATES FOR NORMAL WEIGHT SHALL CONFORM TO A.S.T.M. C-33.
5. ADMIXTURES AND COLORS (EXCEPT AS NOTED HEREIN) SHALL NOT BE USED UNLESS SUBSTANTIATING DATA IS SUBMITTED TO AND ACCEPTED BY THE ENGINEER AND ARCHITECT OF RECORD.
6. CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY. THE MIX DESIGNS SHALL CONFORM TO C.B.C. SEC. 1905 AND ACI SECTION 5.6.5 UNLESS NOTED OTHERWISE.
7. READY MIXED CONCRETE SHALL CONFORM TO (A.S.T.M. C-94).
8. PLACEMENT OF CONCRETE SHALL CONFORM TO A.C.I. 304.
9. ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS AND INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
10. NO BRICK OR POROUS MATERIAL SHALL BE USED TO SUPPORT FOUNDATION STEEL OFF THE GROUND.
11. SLEEVE PLUMBING OPENINGS IN SLABS WITH NON-CORROSIVE SLEEVE BEFORE PLACING CONCRETE AND BEND REINFORCING AROUND SLEEVES.
12. ALL REINFORCING BARS SHALL BE PROVIDED WITH THE FOLLOWING CONCRETE MINIMUM COVER:
FOOTINGS CAST AGAINST EARTH 3"
FORMED CONCRETE EXPOSED TO EARTH OR WEATHER 2"
13. CONCRETE CURING: TYPICALLY REQUIRED FOR 10 DAYS.

REINFORCING STEEL:

- 1. ALL REINFORCING STEEL SHALL BE PLACED IN CONFORMANCE WITH THE C.B.C., AND THE "MANUAL OF STANDARD PRACTICE" BY THE C.R.S.I. OR AS MODIFIED BY THE CONSTRUCTION DOCUMENTS.
2. REINFORCING BARS SHALL CONFORM TO A.S.T.M. A-615, DEFORMED GRADE 60, EXCEPT #3 BARS MAY BE GRADE 40. REINFORCING BARS THAT ARE TO BE WELDED SHALL CONFORM TO A.S.T.M. A-706, DEFORMED GRADE 60.
3. WELDING OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH A.S.T.M. A-706 WITH LOW HYDROGEN ELECTRODES AND SHALL CONFORM TO THE C.B.C. AND STRUCTURAL WELDING CODE REINFORCING STEEL BY A.N.S.I. / A.W.S. D1.4. MINIMUM TENSILE STRENGTH OF WELD METAL SHALL BE 90 K.S.I. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS.
4. ALL REINFORCING BAR BENDS SHALL BE MADE COLD, UNLESS OTHERWISE PERMITTED BY THE BUILDING OFFICIAL.
5. DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE LAPPED WITH THE SAME GRADE, SIZE, SPACING AND NUMBER AS THE VERTICAL REINFORCEMENT, RESPECTIVELY.
6. REINFORCING SPLICES SHALL BE MADE AS INDICATED ON THE DRAWINGS.
7. PROVIDE #3 SPACER TIES AT 2'-6" ON CENTER IN ALL BEAMS AND FOOTINGS TO SECURE REINFORCING BARS IN PLACE, U.O.N.
8. PIPING AND CONDUIT SHALL BE SO FABRICATED AND INSTALLED THAT CUTTING, BENDING, OR DISPLACEMENT OF REINFORCEMENT FROM ITS PROPER LOCATION WILL NOT BE REQUIRED. A.C.I. #6.3.12

GENERAL NOTES:

- 1. THE PROJECT SPECIFICATIONS SHALL BE PART OF THE CONTRACT DOCUMENTS.
2. THE STRUCTURAL DRAWINGS ARE TO BE USED IN CONJUNCTION WITH CIVIL DRAWINGS.
3. THE CONTRACTOR SHALL REVIEW EXISTING CONDITIONS ON THE SITE DURING THE BIDDING. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK. THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES PRIOR TO PROCEEDING.
4. UNLESS OTHERWISE SHOWN OR NOTED, ALL PHASES OF WORK ARE TO CONFORM TO THE MINIMUM STANDARDS OF THE CALIFORNIA BUILDING CODE (CURRENT EDITION C.B.C.), AND ANY A.S.T.M. SPECIFICATIONS WHICH THESE STANDARDS ARE BASED. WHERE CONFLICT BETWEEN BUILDING CODES AND SPECIFICATIONS OCCUR, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.
5. ALL A.S.T.M. DESIGNATIONS REFERRED TO ON THESE DRAWINGS SHALL BE THE LATEST ADOPTED OR REVISED SPECIFICATION, AS OF THE DATE OF THESE DRAWINGS.
6. ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS. DRAWINGS SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
7. NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
8. THE STRUCTURAL CONTRACT DOCUMENTS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION.
9. NEITHER THE OWNER NOR THE ARCHITECT/STRUCTURAL ENGINEER WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING AND BRACING AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE SAFETY ITEMS.
10. SATISFACTORY EXECUTION OF CONSTRUCTION IS DEPENDENT UPON CONFORMANCE WITH THE INTENT OF THESE DRAWINGS. OWNER OR CONTRACTOR SHALL RETAIN A CALIFORNIA LICENSED CIVIL OR STRUCTURAL ENGINEER DURING CONSTRUCTION TO OBSERVE THE CONSTRUCTION AND STATE THAT THE STRUCTURE HAS BEEN BUILT IN GENERAL CONFORMANCE WITH THE INTENT OF THESE DRAWINGS.
11. WHERE NO CONSTRUCTION DETAILS ARE SHOWN OR NOTED FOR ANY PART OF THE WORK. THE DETAILS SHALL BE THE SAME AS FOR OTHER SIMILAR WORK.

GEOTECHNICAL NOTES:

GEOTECH REPORT BY: GEOCON INC., PROJECT NO: G1006-52-05
DATED MAY 5, 2023 AND LETTER DATED 12/23/2023

- 1. FOOTING OR PEIR EXCAVATIONS SHOULD BE OBSERVED BY THE PROJECT GEOTECHNICAL REPRESENTATIVE TO DOCUMENT THAT THE FOOTING TRENCHES HAVE BEEN EXCAVATED INTO COMPETENT BEARING SOILS AND TO THE EMBEDMENTS RECOMMENDED IN THE GEOTECHNICAL REPORT. THESE OBSERVATIONS SHOULD BE PERFORMED PRIOR OT PLACING FORMS OR REINFORCING STEEL.
2. SEE "DESIGN CRITERA" FOR GEOTECHNICAL WALL DESIGN PARAMETERS.

PROFILE SCALES
HORIZ. : 1"=40'
VERT. : 1"=8'

REQUIRED SPECIAL INSPECTIONS

IN ADDITION TO THE REGULAR INSPECTIONS, THE FOLLOWING CHECKED ITEMS WILL ALSO REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH CHAPTER 17 OF THE CALIFORNIA BUILDING CODE. SPECIAL INSPECTION INDEPENDENT OF CONTRACTOR, ARCHITECT, OR ENGINEER OF RECORD SHALL BE PROVIDED BY OWNER ACCORDING TO THE CALIFORNIA BUILDING CODE CHAPTER 17 (TABLE 1704.3-STEEL, TABLE 1704.4-CONCRETE, TABLE 1704.5.1 OR 1704.5.3-MASONRY). THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK FOR CONFORMANCE W/ THE CONTRACT DOCUMENTS, NOT THE SHOP DRAWINGS.

Table with 3 columns: ITEM, TYPE, REMARKS. Rows include CONCRETE (CBC TABLE 1705.3), MASONRY (ACI 530-11), and SOIL (CBC TABLE 1705.6) with periodic and continuous inspection types.

SPECIAL INSPECTION NOTES:

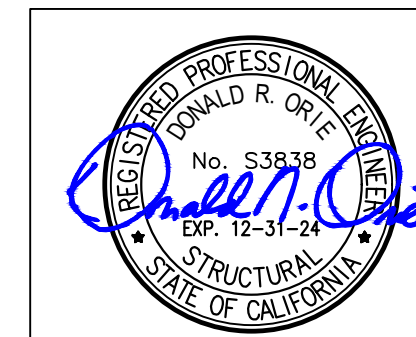
- 1. THE SPECIAL INSPECTOR MUST BE CERTIFIED BY THE CITY OR GOVERNING AGENCY, IN THE CATEGORY OF WORK REQUIRED TO HAVE SPECIAL INSPECTION:
CONSTRUCTION TESTING & ENGINEERING (760) 746-4955
2. A PROPERTY OWNER'S FINAL REPORT FORM FOR WORK REQUIRED TO HAVE SPECIAL INSPECTIONS, TESTING AND STRUCTURAL OBSERVATIONS MUST BE COMPLETED BY THE PROPERTY OWNER, PROPERTY OWNER'S AGENT OF RECORD, ARCHITECT OF RECORD OR, ENGINEER OF RECORD AND SUBMITTED TO THE INSPECTION SERVICES DIVISION.
3. THE SPECIAL INSPECTIONS IDENTIFIED ON PLAN ARE, IN ADDITION TO, AND NOT A SUBSTITUTE FOR, THOSE INSPECTIONS REQUIRED TO BE PERFORMED BY A CITY'S OR GOVERNING AGENCY'S BUILDING INSPECTOR.

STRUCTURAL NOTES

SCALE: N.T.S.

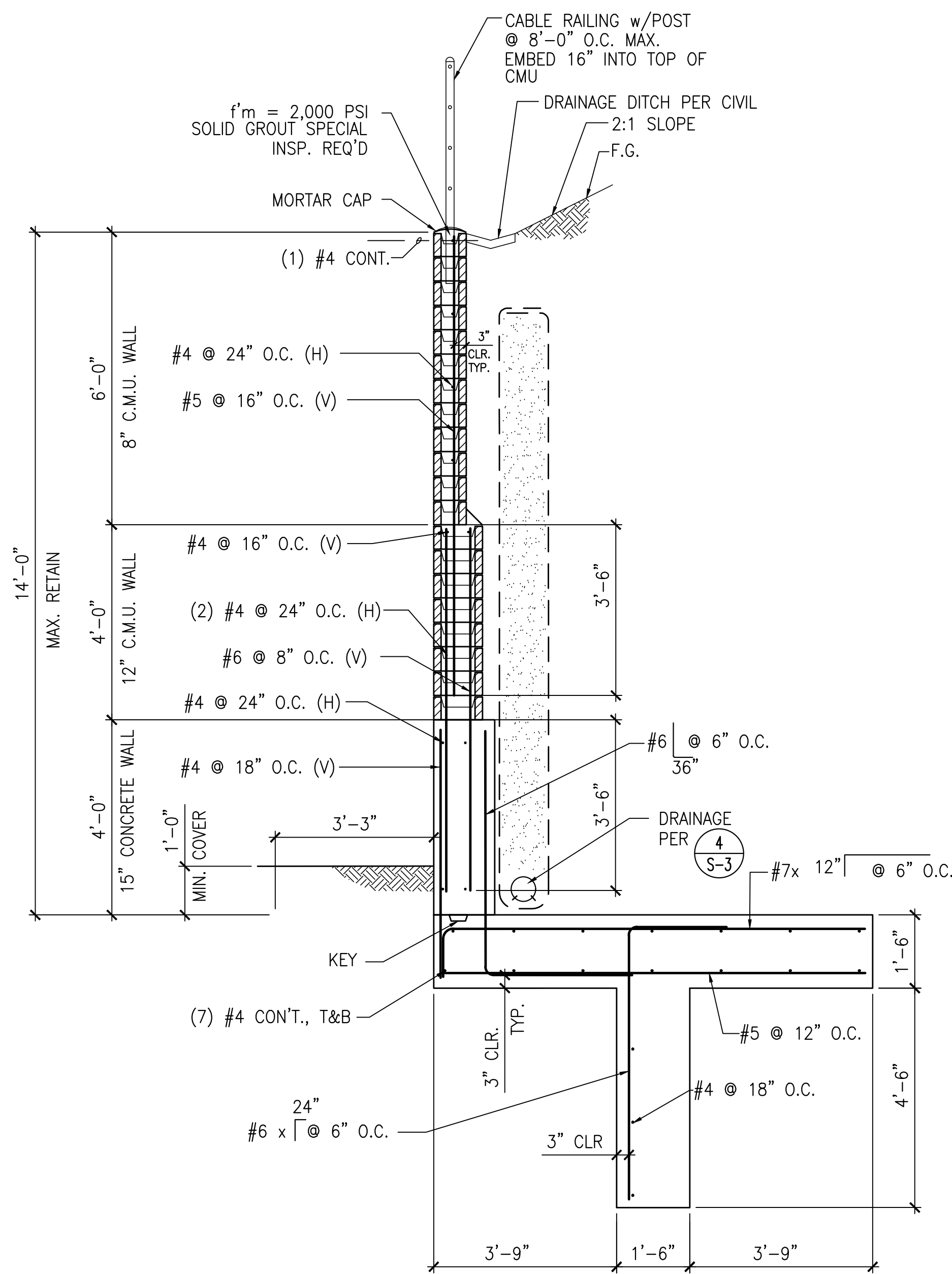
AS BUILT and UTILITY NOTE tables. Includes signature block, date, and utility note text: ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS...

Revisions table with columns: REVISIONS, By, Date, App'd, Desigined By, Drawn By, Checked By, Plans Prepared Under Supervision Of, Date: 02/06/2024

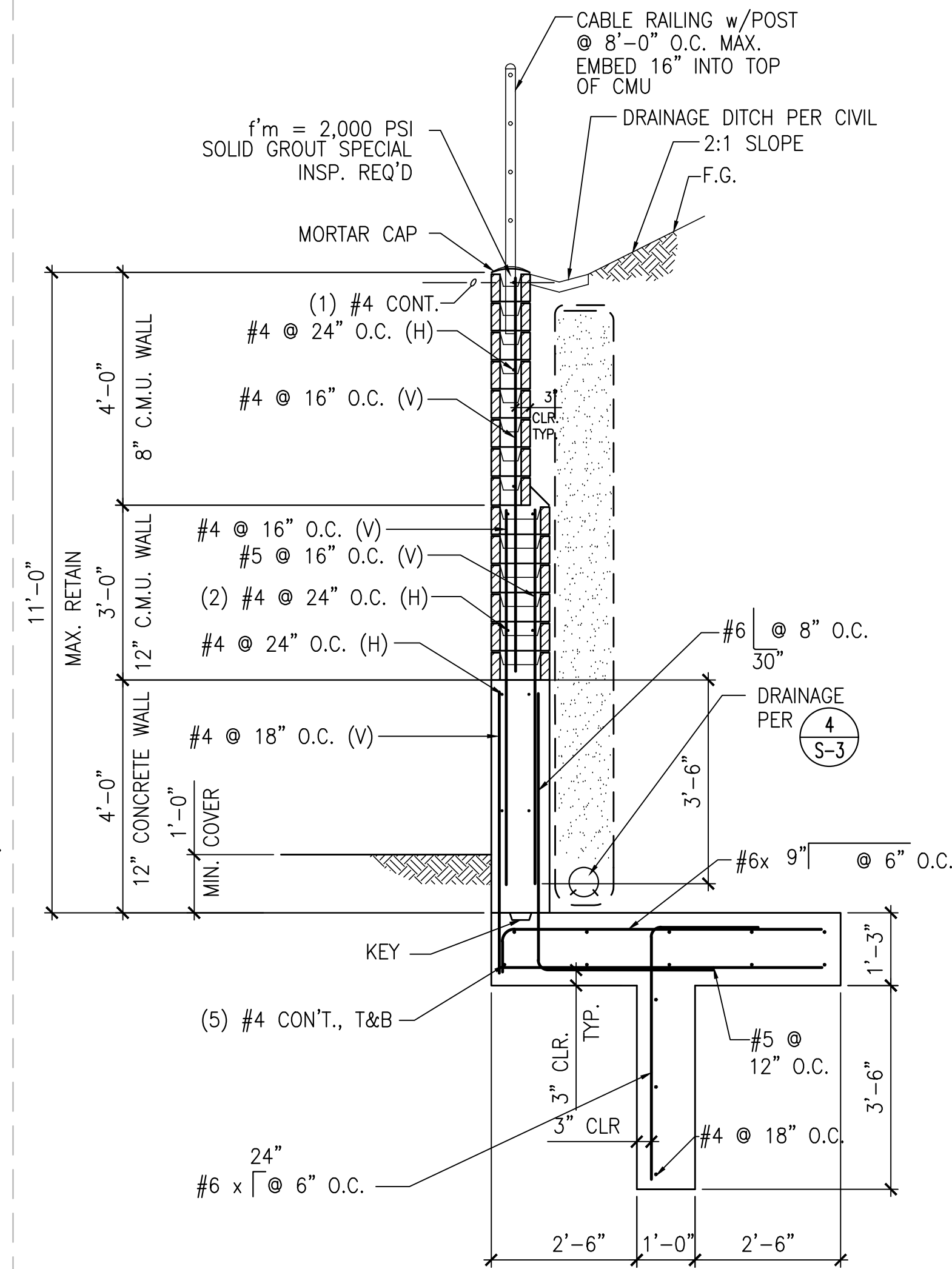


THE CITY OF CHULA VISTA

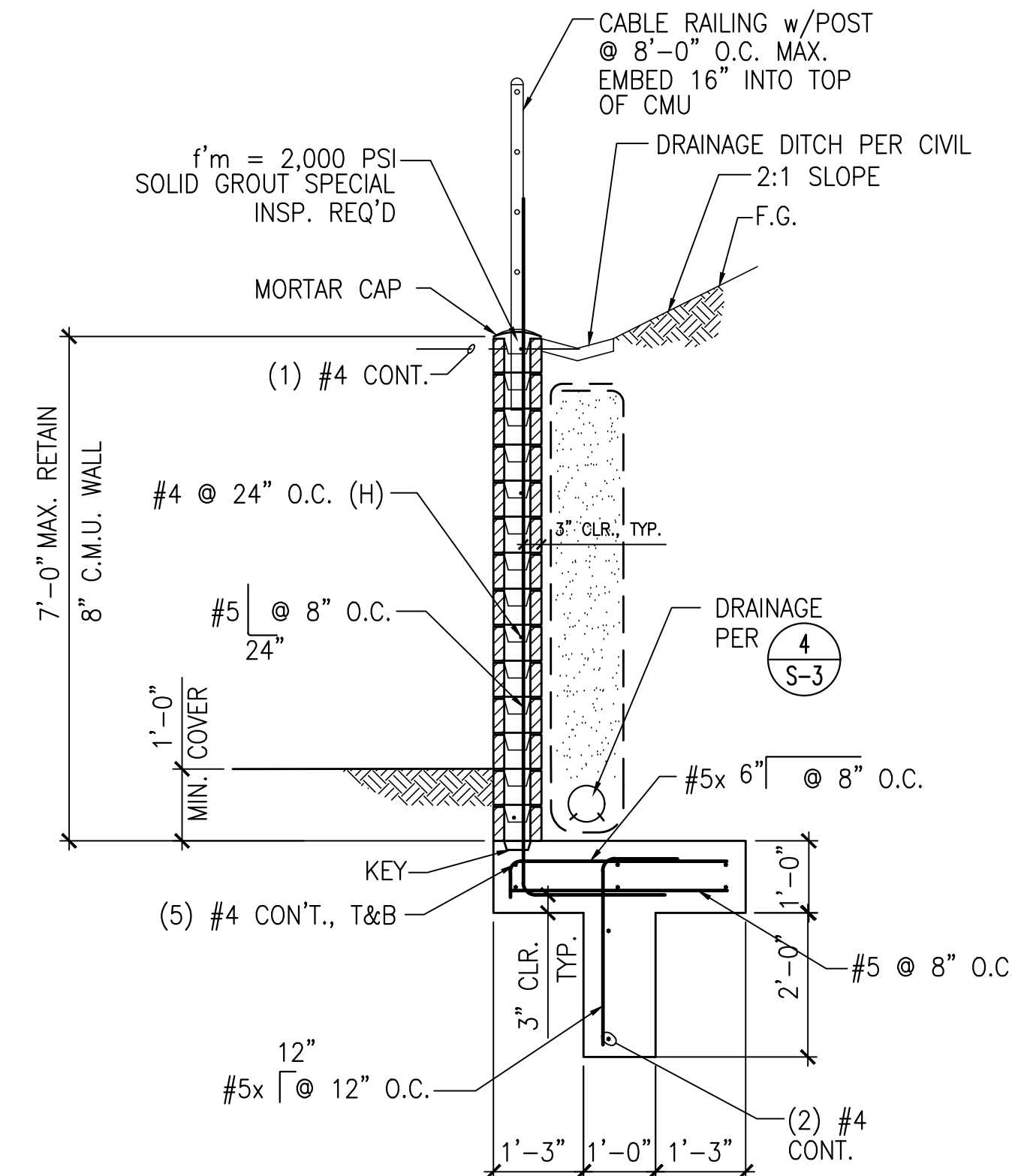
RETAINING WALL PLAN SHEET FOR OTAY RANCH VILLAGE 8 EAST. CHULA VISTA TRACT NO. 22-0005. DEVELOPMENT SERVICES DEPARTMENT. AS BUILT. DRAWING NO. 87. CONTRACTOR: XXXXX.XXX. INSPECTOR: DATE COMPLETED:



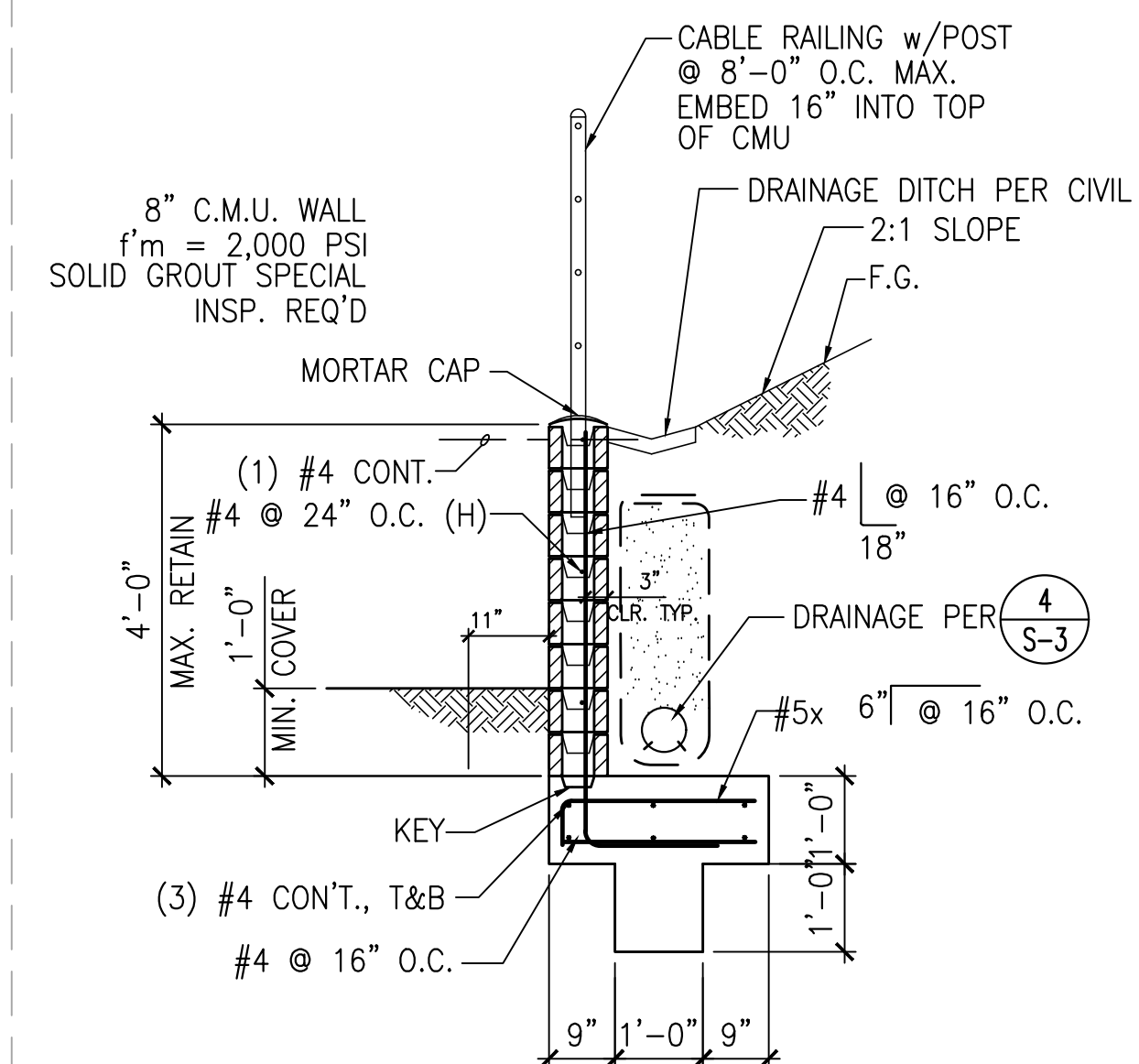
1 RETAINING WALL SECTION (H=14'-0")
SCALE: 1/2"=1'-0"



2 RETAINING WALL SECTION (H=11'-0")
SCALE: 1/2"=1'-0"



3 RETAINING WALL SECTION (H=7'-0")
SCALE: 1/2"=1'-0"



4 RETAINING WALL SECTION (H=4'-0")
SCALE: 1/2"=1'-0"

PROFILE SCALES
HORIZ.: 1"=40'
VERT.: 1"=8'

S-2
RETAINING WALL SECTIONS

<p>0 1/2 1</p> <p>IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING NOT TO SCALE</p>		<p>RETAINING WALL PLAN SHEET FOR OTAY RANCH VILLAGE 8 EAST CHULA VISTA TRACT NO. 22-0005</p>	
<p>DEVELOPMENT SERVICES DEPARTMENT</p>		<p>ACCELA NO.: XXXX PROJECT NO.: XXXX</p>	
<p>Approved: _____ By: _____ Principal Civil Engineer</p>		<p>TOTAL SHEETS: 1796 - 6340</p>	
<p>Submitted: _____ By: _____</p>		<p>COORDINATES 154 - 1773 LAMBERT COORDINATES</p>	
<p>Planning: _____ Landscape: _____</p>		<p>AS BUILT</p>	
<p>CONTRACTOR: _____ INSPECTOR: _____</p>		<p>DRAWING NO. 88 XXXXX.XXX</p>	

AS BUILT	UTILITY NOTE
<p>SIGNATURE: XXXX Printed Name: XXXX My Registration Expires: XXXX</p>	<p>Date: _____ P.E. No. XXXX Discipline: _____</p> <p>ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.</p>

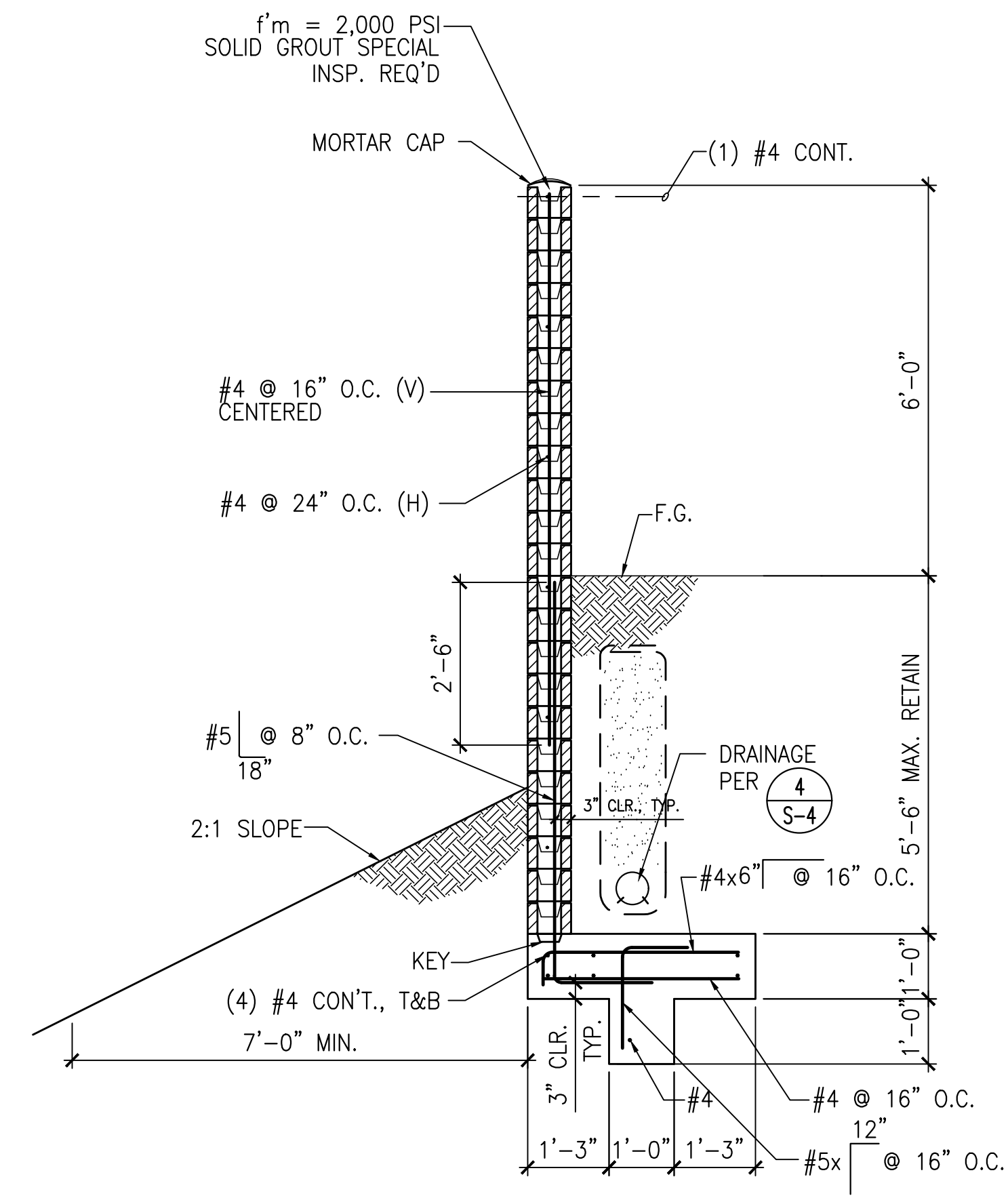
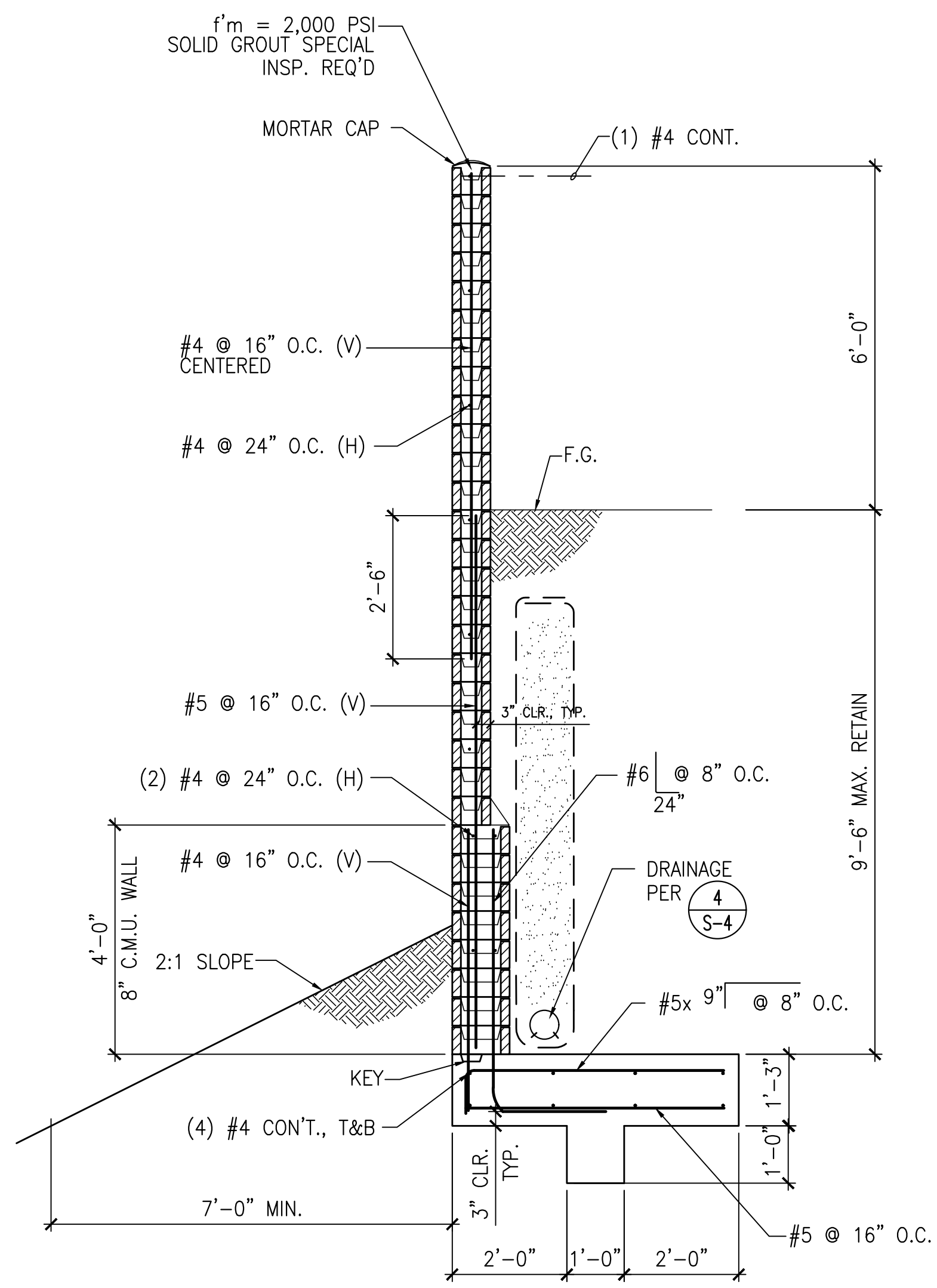
REFERENCE DRAWINGS	REVISIONS	By	Date	App'd
C.V. DWG. NO.				

REVISIONS	By	Date	App'd

DESIGNED BY	DRAWN BY	CHECKED BY
JP	JLO	JLO
Plans Prepared Under Supervision Of: DONALD R. ORIE		Date: 02/06/2024
S.E. No. 3838		



THE CITY OF CHULA VISTA



1 RETAINING WALL SECTION (H=9'-6" w/6'-0" SCREEN WALL)
SCALE: 1/2"=1'-0"

2 RETAINING WALL SECTION (H=5'-6" w/6'-0" SCREEN WALL)
SCALE: 1/2"=1'-0"

PROFILE SCALES
HORIZ. : 1"=40'
VERT. : 1"=8'

S-3
RETAINING WALL SECTIONS

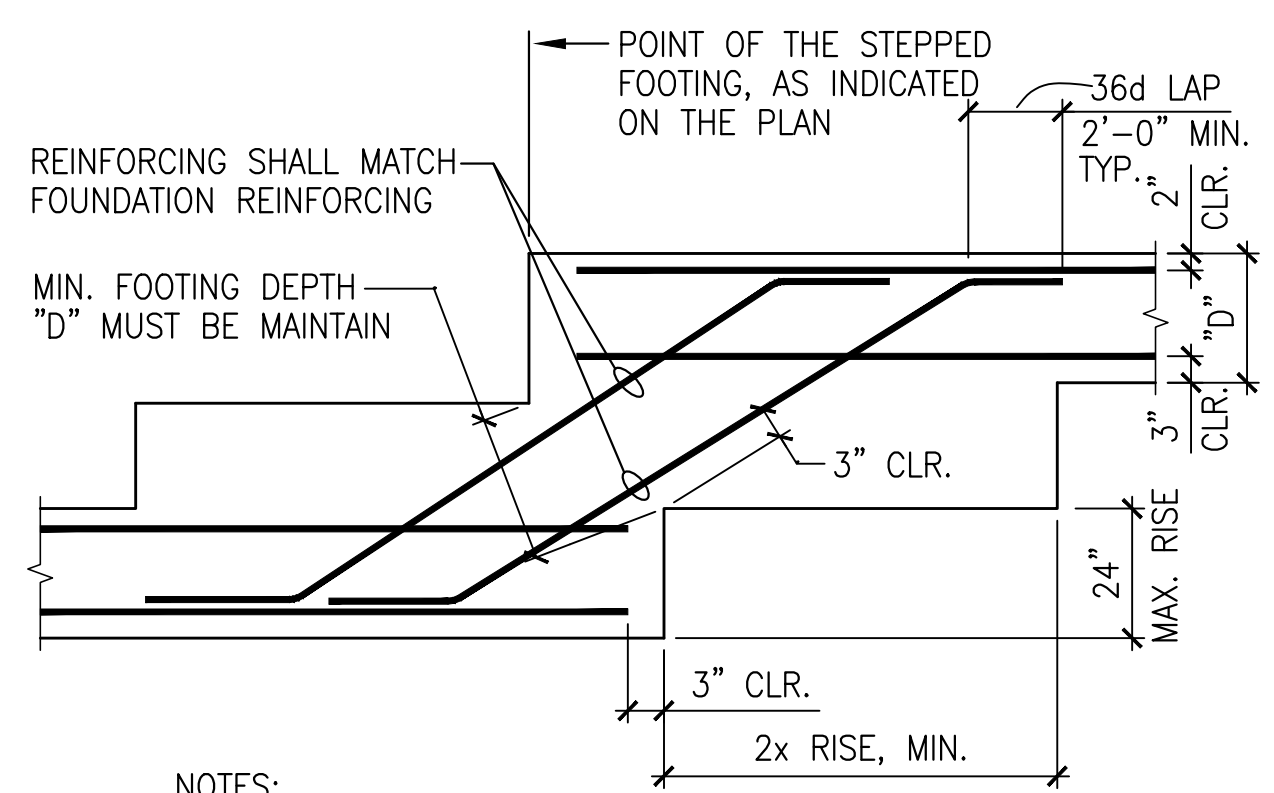
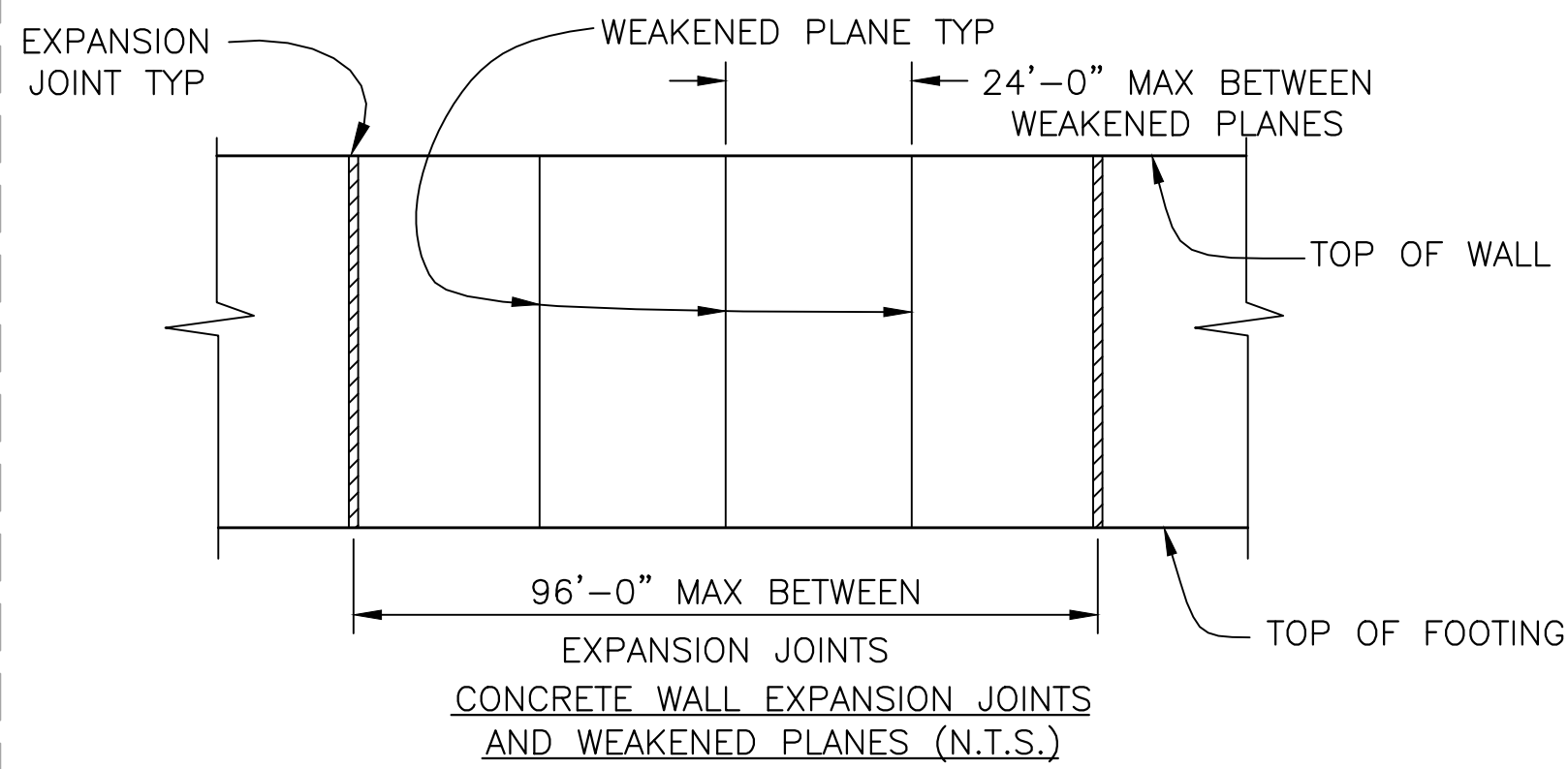
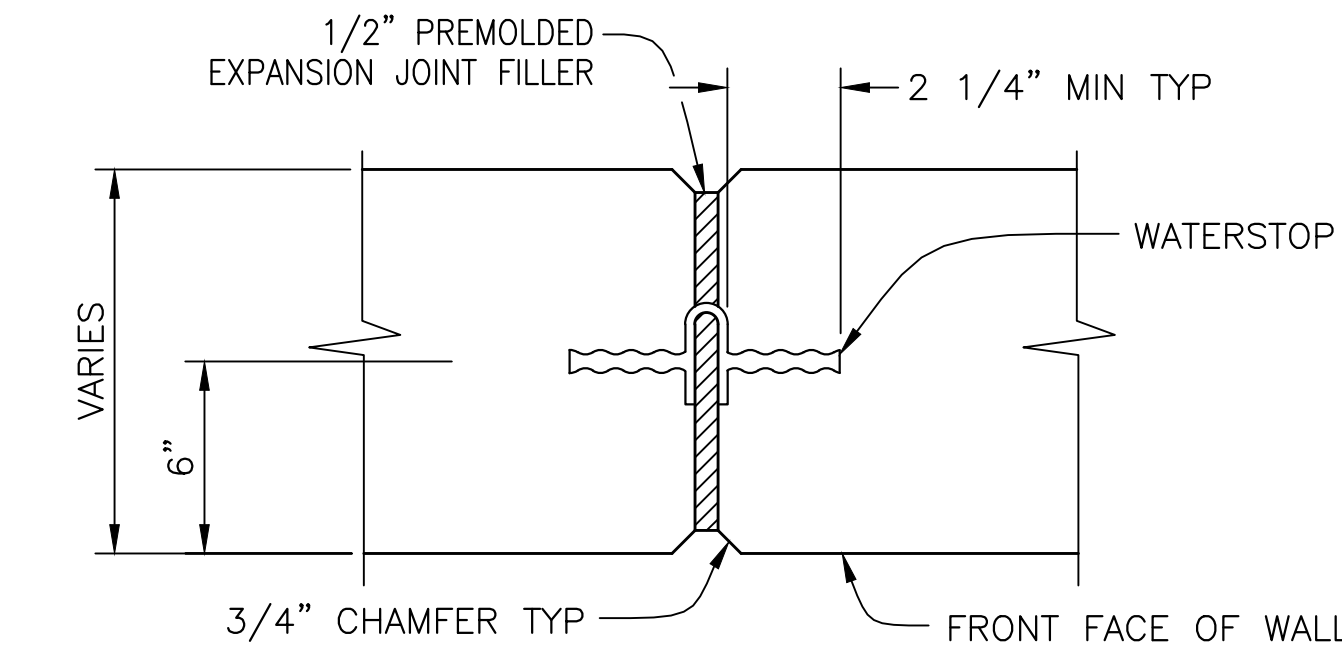
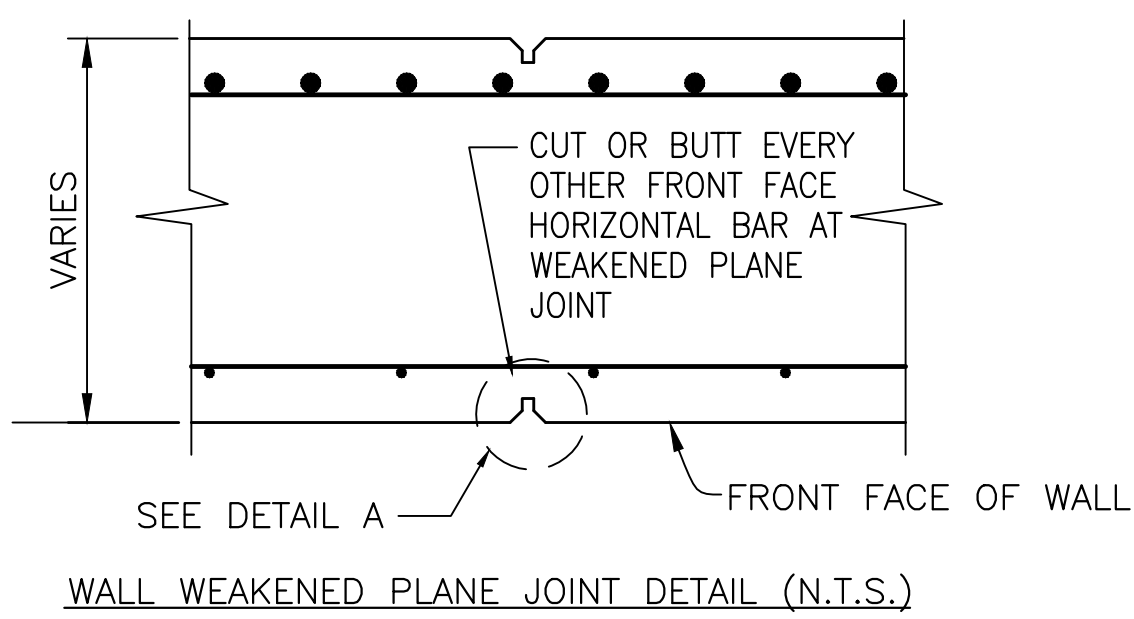
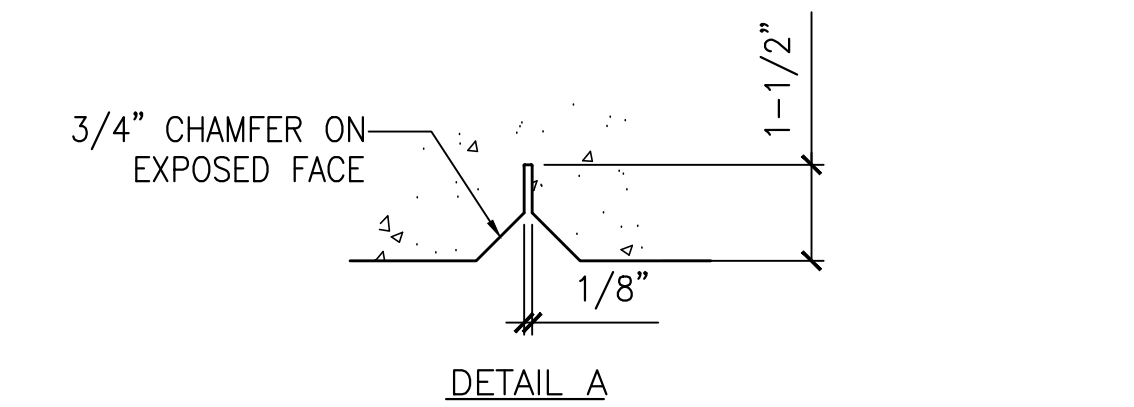
<p>IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING NOT TO SCALE</p>		<p>RETAINING WALL PLAN SHEET FOR OTAY RANCH VILLAGE 8 EAST CHULA VISTA TRACT NO. 22-0005</p>	
<p>DEVELOPMENT SERVICES DEPARTMENT</p>		<p>ACCELA NO.: XXXX PROJECT NO.: XXXX</p>	
<p>Approved: _____ By: _____ Principal Civil Engineer</p>		<p>TOTAL SHEETS: 1796 - 6340</p>	
<p>Submitted: _____ By: _____</p>		<p>COORDINATES 154 - 1773 LAMBERT COORDINATES</p>	
<p>Planning: _____ Landscape: _____</p>		<p>AS BUILT</p>	
<p>CONTRACTOR: _____ INSPECTOR: _____ DATE COMPLETED: _____</p>		<p>DRAWING NO. 89 XXXXX.XXX</p>	

AS BUILT	UTILITY NOTE
<p>SIGNATURE: XXXX Printed Name: _____ My Registration Expires: _____</p>	<p>Date: _____ P.E. No. XXXX Discipline: _____</p> <p>ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM RECORD DATA AT THEIR APPROXIMATE LOCATIONS. UNDERGROUND FACILITIES MAY EXIST WHICH HAVE NOT BEEN REPORTED OR ARE NOT OF RECORD. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.</p>

REFERENCE DRAWINGS	REVISIONS	By	Date	App'd	REVISIONS	By	Date	App'd	Designed By:	Drawn By:	Checked By:
C.V. DWG. NO.									JP	JLO	JLO
									Plans Prepared Under Supervision Of: DONALD R. ORIE		Date: 02/06/2024
											S.E. No. 3838

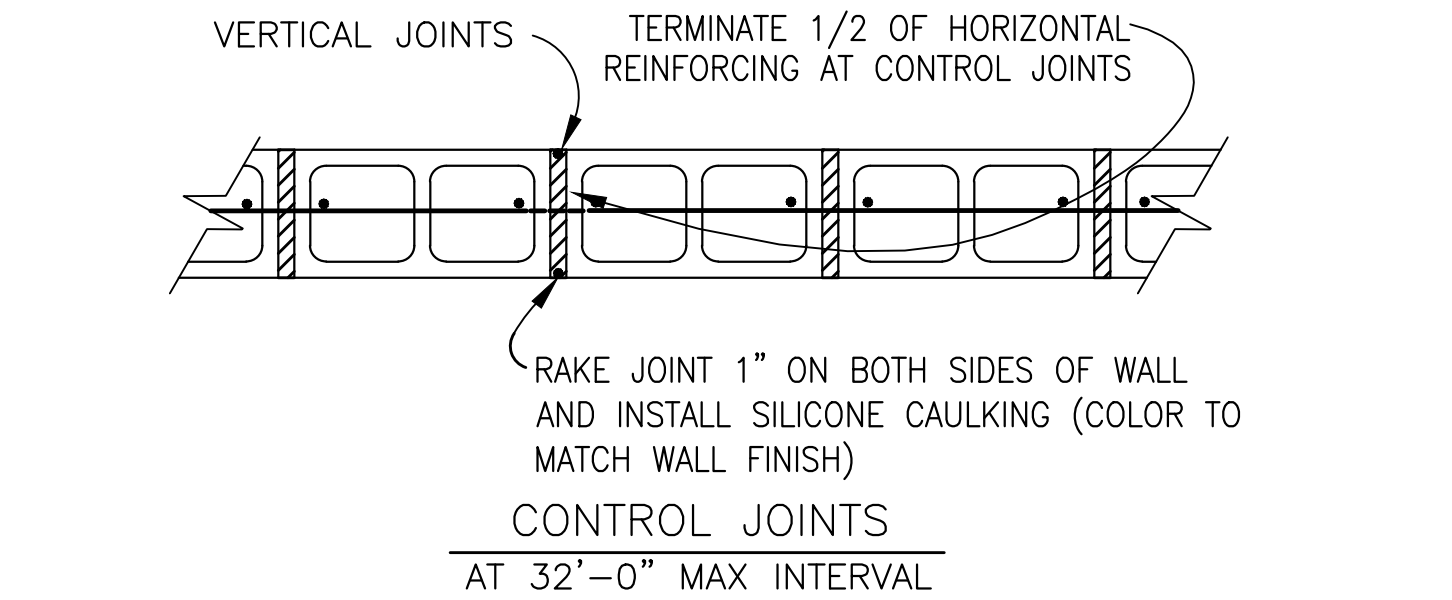
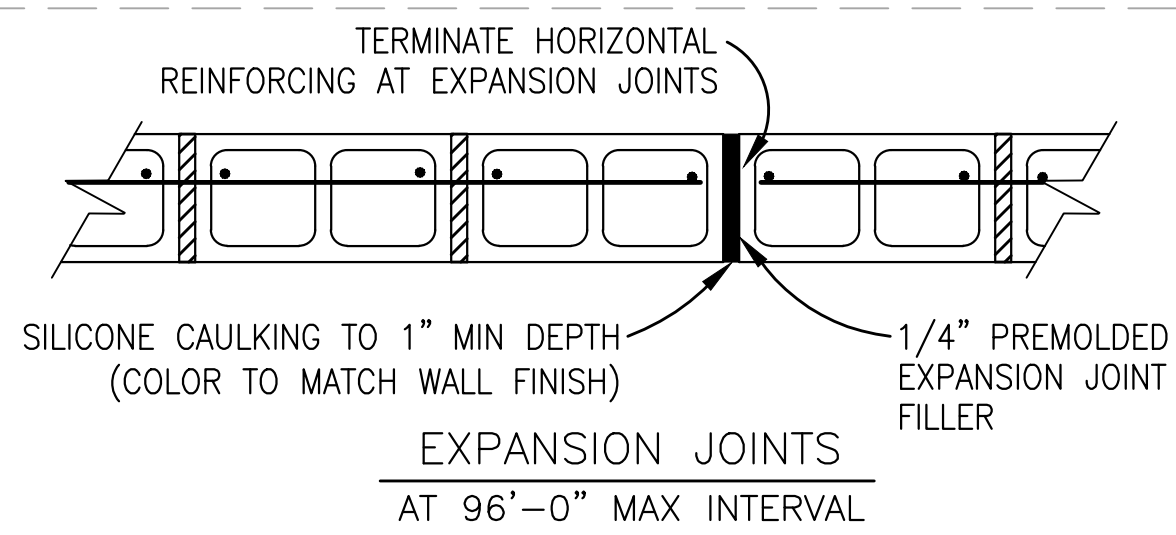


THE CITY OF
CHULA VISTA

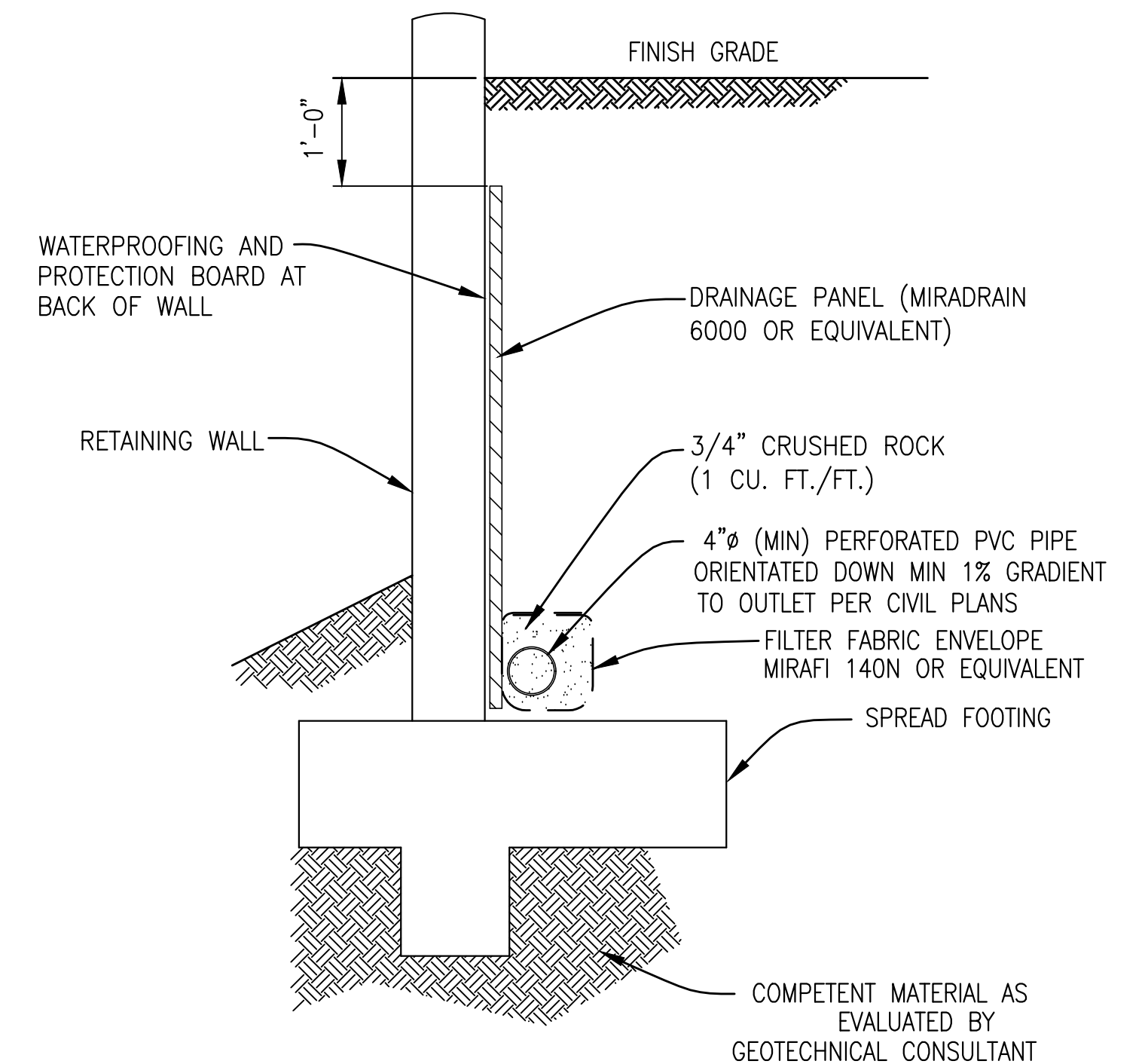
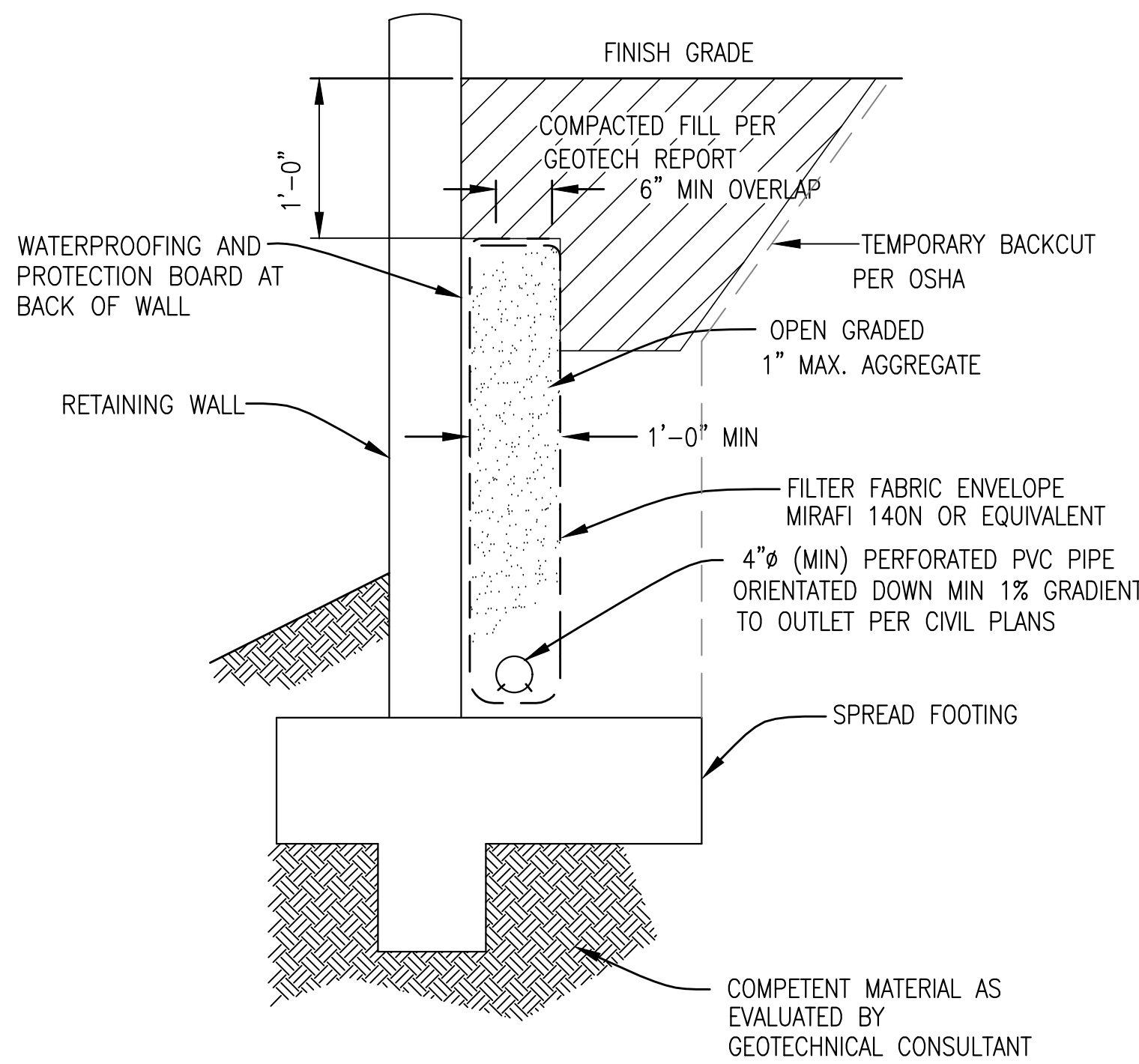


- NOTES:
- STEP FOOTING WHERE SHOWN ON PLANS, AND AS REQUIRED TO MAINTAIN MINIMUM FOOTING DEPTH BELOW GRADE, AND AS REQUIRED TO ACCOMMODATE PIPES PER TYP. PIPE TRENCH DETAILS
 - REINFORCING TO MATCH SIZE AND SPACING OF FOOTING REINFORCING.

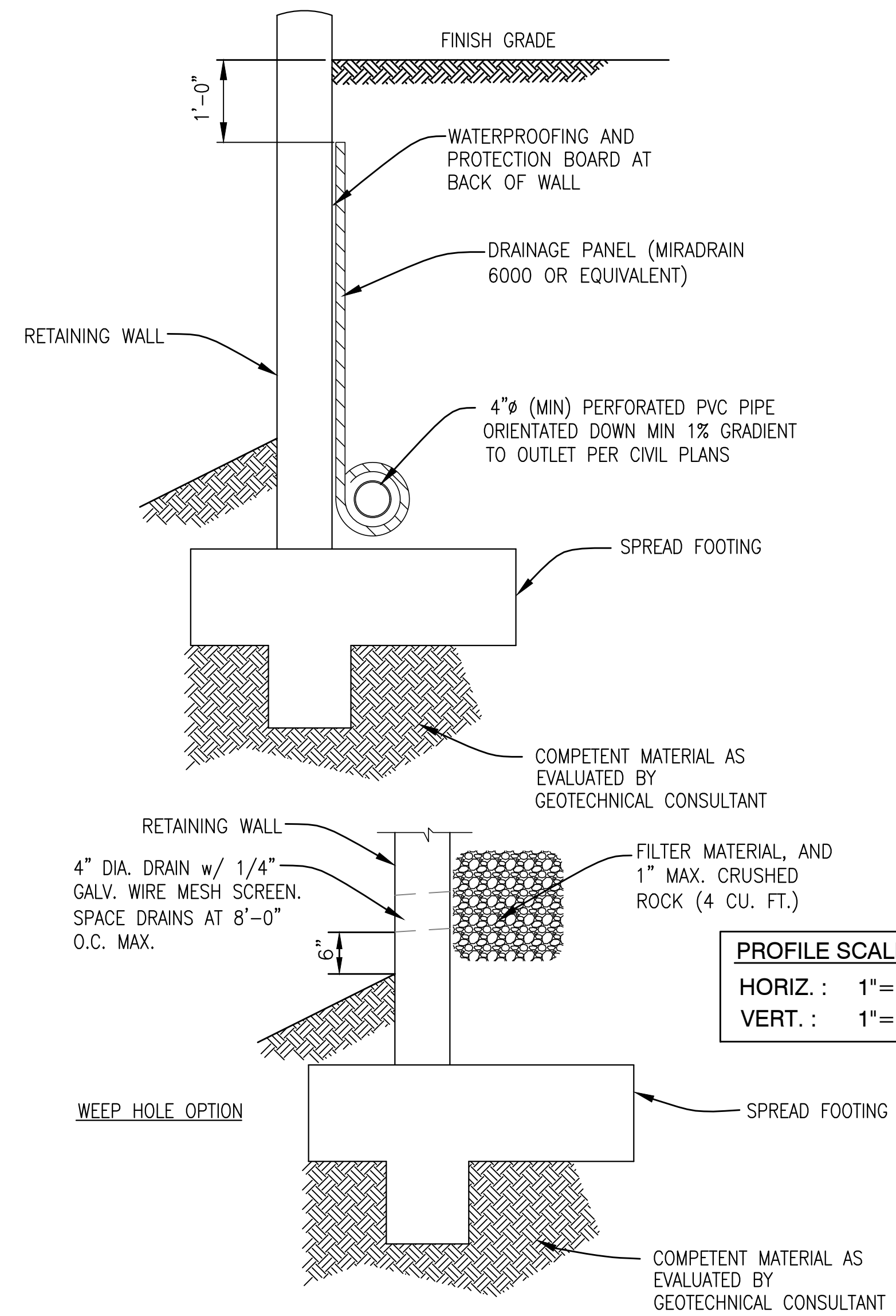
2 TYPICAL STEP FOOTING DETAIL
SCALE: NO SCALE



3 TYPICAL MASONRY JOINTS
SCALE: NO SCALE



4 TYPICAL WALL DRAINAGE DETAILS
SCALE: N.T.S.



WEEP HOLE OPTION

S-4
RETAINING TYPICAL DETAILS

RETAINING WALL PLAN SHEET FOR
OTAY RANCH VILLAGE 8 EAST
CHULA VISTA TRACT NO. 22-0005

DEVELOPMENT SERVICES DEPARTMENT

ACCELA NO.: XXXX
PROJECT NO.: XXXX
TOTAL SHEETS: 1796 - 6340
NAD83 COORDINATES
154 - 1773
LAMBERT COORDINATES

AS BUILT

DRAWING NO. 90

CONTRACTOR: XXXXX.XXX
INSPECTOR: _____ DATE COMPLETED: _____

Approved: _____
By: _____ Principal Civil Engineer

Submitted: _____
By: _____

Planning: _____ Landscape: _____

DESIGNED BY: JP
DRAWN BY: JLO
CHECKED BY: JLO

Plans Prepared Under Supervision Of: _____ Date: 02/06/2024
DONALD R. ORIE S.E. No. 3838

CONCRTE WALL EXPANSION & WEAKENED PLANE JOINT DETAILS

UTILITY NOTE

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REFERENCE DRAWINGS	REVISIONS	By	Date	App'd
C.V. DWG. NO.				