

PLANS FOR THE GRADING, STREET IMPROVEMENT, SEWER, WATER, STORMDRAIN, STRIPING, AND SIGNAGE OF GATEWAY OF THE AMERICAS - TRACT 941 - UNIT NO. 2

GENERAL NOTES:

- ENCROACHMENT PERMIT CONDITIONS AND PROVISIONS SHALL TAKE PRECEDENCE OVER THE APPROVED PLANS AND SPECIFICATIONS.
- THE STRUCTURAL SECTION SHALL BE IN ACCORDANCE WITH IMPERIAL COUNTY STANDARDS (OR CALTRANS IF IN STATE ROW) AND AS APPROVED BY THE PUBLIC WORKS DIRECTOR (OR CALTRANS).
- APPROVAL OF THESE IMPROVEMENT PLANS AS SHOWN DOES NOT CONSTITUTE APPROVAL OF ANY CONSTRUCTION OUTSIDE THE PROJECT BOUNDARY.
- ALL UNDERGROUND UTILITIES WITHIN THE STREET RIGHT-OF-WAY SHALL BE CONSTRUCTED, CONNECTED AND TESTED PRIOR TO CONSTRUCTION OF BERM, CURB, CROSS AND PAVING.
- THE EXISTENCE AND LOCATION OF EXISTING UNDERGROUND FACILITIES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO OTHER EXISTING FACILITIES EXCEPT AS SHOWN ON THESE PLANS. HOWEVER, THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING FACILITY SHOWN HEREON AND ANY OTHER WHICH IS NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
- LOCATION AND ELEVATION OF IMPROVEMENTS TO BE MET BY WORK TO BE DONE SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK. CONTRACTOR WILL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.
- UTILITIES COORDINATION

NO LESS THAN 3 WORKING DAYS PRIOR TO ANY EXCAVATION OR TRENCHING, EACH CONTRACTOR DOING SUCH WORK SHALL CONTACT THE FOLLOWING AGENCIES SO THAT EXISTING UNDERGROUND UTILITIES MAY BE LOCATED. THE AGENCY MAY REQUIRE AN INSPECTOR TO BE PRESENT.

- | | |
|---|-------------------------------|
| 1. GATEWAY CSA, SEWER, WATER (PUBLIC WORKS) | (760) 482-4462 |
| 2. IMPERIAL IRRIGATION DISTRICT (POWER) | (760) 339-9280 |
| 3. IMPERIAL IRRIGATION DISTRICT (WATER) | (800) 339-9263 |
| 4. PACIFIC BELL | (800) 422-4133 |
| 5. THE GAS CO. | (800) 422-4133/(800) 227-2600 |
| 6. ADELPHIA CABLE | (800) 626-6299 |

EXISTING UNDERGROUND UTILITIES

BEFORE EXCAVATING FOR THIS CONTRACT, VERIFY LOCATION OF UNDERGROUND UTILITIES. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS HAS BEEN OBTAINED FROM AVAILABLE RECORDS AND MAY NOT REFLECT ALL EXISTING UTILITIES. LOCATION OF ALL EXISTING UTILITIES SHALL BE CONFIRMED BY FIELD MEASUREMENTS BY CONTRACTOR PRIOR TO CONSTRUCTION OF WORK.

CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN HEREON AND ANY OTHER EXISTING LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

ACCURATE VERIFICATION AS TO SIZE, LOCATION AND DEPTH OF EXISTING UNDERGROUND SERVICES SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL NOTIFY THE SOUTHERN CALIFORNIA GAS COMPANY, PACIFIC BELL, TELEPHONE COMPANY, IMPERIAL IRRIGATION DISTRICT AND ANY OTHER AFFECTED UTILITY AGENCIES PRIOR TO STARTING HIS WORK NEAR SUCH UTILITY FACILITIES AND SHALL COORDINATE HIS WORK WITH UTILITY REPRESENTATIVES. FOR LOCATION OF UNDERGROUND UTILITIES AND APPURTENANCES, CONTACT "UNDERGROUND SERVICE ALERT" AT 1-800-422-4133.

IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CONTACT THE UTILITY AGENCIES, ADVISE THEM OF THE PROPOSED IMPROVEMENTS AND BEAR THE COST OF RELOCATIONS, IF NEEDED.

9. CONSTRUCT A PUBLIC STREET LIGHT SYSTEM CONFORMING TO APPROPRIATE STANDARDS AND STREET LIGHT SPECIFICATIONS. POWER SOURCES AND RUNS SHALL BE SHOWN ON THE "AS-BUILT" IMPROVEMENT DRAWINGS. ALL POWER SOURCES SHALL BE LOCATED WITHIN THE DEDICATED RIGHT-OF-WAY.

10. NO PAVING SHALL BE DONE UNTIL EXISTING POWER POLES ARE RELOCATED OUTSIDE THE AREAS TO BE PAVED.

11. PRIVATE ROAD IMPROVEMENTS SHOWN HEREON ARE FOR INFORMATION ONLY. COUNTY OFFICIALS SIGNATURE HEREON DOES NOT CONSTITUTE APPROVAL OR RESPONSIBILITY OF ANY KIND FOR THE DESIGN OR CONSTRUCTION OF THESE PRIVATE IMPROVEMENTS.

12. ALL SIGNS TO BE ALUMINUM WITH 3M HIGH INTENSITY TYPE REFLECTIVE FACE OR EQUIVALENT.

13. CONTRACTOR WILL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY STRIPING, PAVEMENT MARKERS, OR LEGENDS OBLITERATED BY THE CONSTRUCTION OF THIS PROJECT.

14. THE CONTRACTOR SHALL DO ALL NEW STRIPING AND SANDBLASTING OF REDUNDANT STRIPING.

15. THE FUTURE CONSTRUCTION OF PCC STANDARD DRIVEWAYS (GATEWAY STD. DWG. NO. 410) TO BE DETERMINED BY INDIVIDUAL LOT DEVELOPERS. PCC SURFACING OF DRIVEWAY TO EXTEND FROM CURB TO PROPERTY LINE UNLESS OTHERWISE SHOWN.

16. THE CONTRACTOR SHALL BE RESPONSIBLE TO SECURE AN ENCROACHMENT PERMIT FROM THE COUNTY OF IMPERIAL DEPARTMENT OF PUBLIC WORKS FOR ANY EXCAVATION OR CONSTRUCTION WITHIN COUNTY ROAD RIGHT-OF-WAY. FOR INSPECTIONS, 48 HOUR MINIMUM NOTICE IS REQUIRED. (760) 482-4462. ADDITIONALLY, UNDERGROUND SERVICE ALERT (USA) MUST BE CALLED TWO WORKING DAYS BEFORE THE CONTRACTOR MAY EXCAVATE. THEIR CONTACT NUMBER (800) 227-2600. ALL WORK AND MATERIALS ARE SUBJECT TO THE INSPECTION AND APPROVAL FROM THE COUNTY DEPARTMENT OF PUBLIC WORKS OR THEIR REPRESENTATIVE.

17. NO REVISIONS OF ANY KIND SHALL BE MADE TO THESE PLANS WITHOUT THE PRIOR WRITTEN APPROVAL OF BOTH THE COUNTY ENGINEER (OR HIS REPRESENTATIVE) AND THE ENGINEER OF RECORD. A REPRODUCIBLE AS-BUILT PLAN SET WILL BE PROVIDED TO THE PUBLIC WORKS DEPARTMENT AS A CONDITION OF SUBSTANTIAL CONSTRUCTION COMPLETION AND PRIOR TO ACCEPTANCE.

GENERAL NOTES (CONT.)

18. ALL WORK AND MATERIALS SHALL CONFORM TO THESE PLANS AND SPECIFICATIONS. THE IMPERIAL COUNTY DEPARTMENT OF PUBLIC WORKS STANDARDS AND ENCROACHMENT PERMIT CONDITIONS, ANY REFERENCED STANDARDS AND SPECIFICATIONS AND THE SPECIFICATIONS & THE REQUIREMENTS OF THE AGENCIES REFERRED TO HEREIN. ALL WORK SHOWN OR INDICATED BY THESE PLANS SHALL BE COMPLETED IN ACCORDANCE WITH THE STANDARDS, POLICIES AND REGULATIONS OF IMPERIAL COUNTY; WHERE, OR IF, CONFLICTS OCCUR, THEN THE IMPERIAL COUNTY REQUIREMENTS SHALL GOVERN.

19. UNLESS SPECIFICALLY INDICATED OTHERWISE METHODS EMPLOYED AND MATERIAL USED IN THE CONSTRUCTION OF ALL OFFSITE IMPROVEMENTS SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THE "STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED JULY 1999". ALL WORK IS SUBJECT TO INSPECTION AND APPROVAL AS REQUIRED.

20. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AN EXCAVATION PERMIT FROM THE STATE OF CALIFORNIA DIVISION OF SAFETY AND TO ADHERE TO ALL PROVISIONS OF THE STATE CONSTRUCTION SAFETY ORDERS AND STANDARDS.

21. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A GENERAL CONSTRUCTION ACTIVITY STORM WATER PERMIT FROM THE STATE WATER RESOURCES CONTROL BOARD DIVISION OF WATER QUALITY, CONTACT "STATE WATER RESOURCES CONTROL BOARD, DIVISION OF WATER QUALITY, ATTENTION: STORM WATER PERMIT UNIT, P.O. BOX 1977, SACRAMENTO, CALIFORNIA, 95812."

22. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CURRENT WORK AREA TRAFFIC CONTROL HANDBOOK OR AS DIRECTED BY THE IMPERIAL COUNTY TRAFFIC ENGINEER.

23. ANY EXISTING SURVEY MONUMENTS OR COUNTY RECOGNIZED BENCHMARKS SHALL BE PROTECTED BY THE CONTRACTOR. SHOULD ANY SUCH MONUMENTS OR BENCHMARKS BE REMOVED, DAMAGED, OBLITERATED OR ALTERED BY THE CONTRACTOR'S OPERATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER RESETTLEMENT OF THE SAME AS PER THE SUBDIVISION MAP ACT, THE PROFESSIONAL LAND SURVEYORS ACT AND TO THE SATISFACTION OF THE COUNTY SURVEYOR/DIRECTOR OF PUBLIC WORKS.

24. ALL PVC PIPE SHOWN ON THE IMPROVEMENT PLANS SHOULD MEET OR EXCEED THE DIAMETER RATIO AND WALL THICKNESS FOR SCHEDULE 40 OR ASTM F794 PIPE.

GRADING NOTES

1. APPROVAL OF THIS GRADING PLAN DOES NOT CONSTITUTE APPROVAL OF VERTICAL OR HORIZONTAL ALIGNMENT OF ANY PRIVATE ROAD SHOWN HEREON FOR COUNTY ROAD PURPOSES.

2. FINAL APPROVAL OF THESE GRADING PLANS SUBJECT TO FINAL APPROVAL OF THE ASSOCIATED IMPROVEMENT PLANS WHERE APPLICABLE. FINAL CURB GRADE ELEVATIONS MAY REQUIRE CHANGES IN THESE PLANS.

3. IMPORT MATERIAL SHALL BE OBTAINED FROM A LEGAL SITE.

4. THE CONTRACTOR SHALL BE RESPONSIBLE TO SECURE AN ENCROACHMENT PERMIT FROM THE COUNTY OF IMPERIAL DEPARTMENT OF PUBLIC WORKS FOR ANY EXCAVATION OR CONSTRUCTION WITHIN COUNTY ROAD RIGHT-OF-WAY. FOR INSPECTIONS, 48 HOUR MINIMUM NOTICE IS REQUIRED. (760) 482-4462. ADDITIONALLY, UNDERGROUND SERVICE ALERT (USA) MUST BE CALLED TWO WORKING DAYS BEFORE THE CONTRACTOR MAY EXCAVATE. THEIR CONTACT NUMBER (800) 227-2600. ALL WORK AND MATERIALS ARE SUBJECT TO INSPECTION AND APPROVAL OF THE COUNTY DEPARTMENT OF PUBLIC WORKS.

5. THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK. NOTICE OF PROPOSED WORK SHALL BE GIVEN TO THE FOLLOWING AGENCIES:

- | | |
|-------------------|----------------------------------|
| GAS | TEL: 800-422-4133 / 800-227-2600 |
| IID POWER | TEL: 760-339-9280 |
| IID WATER | TEL: 760-339-9263 |
| PACIFIC TELEPHONE | TEL: 800-422-4133 |
| CVI | TEL: 800-626-6299 |
| SEWER (DSA) | TEL: 760-482-4462 |
| WATER (CSA) | TEL: 760-482-4462 |

6. A SOILS REPORT MAY BE REQUIRED PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.

7. APPROVAL OF THESE PLANS BY THE DIRECTOR OF PUBLIC WORKS DOES NOT AUTHORIZE ANY WORK OR GRADING TO BE PERFORMED UNTIL THE PROPERTY OWNER'S PERMISSION HAS BEEN OBTAINED AND VALID GRADING PERMIT HAS BEEN ISSUED BY THE COUNTY PLANNING DEPARTMENT.

8. THE DIRECTOR OF PUBLIC WORKS' APPROVAL OF THESE PLANS DOES NOT CONSTITUTE COUNTY BUILDING OFFICIAL APPROVAL OF ANY FOUNDATION FOR STRUCTURES TO BE PLACED ON THE ITEMS COVERED BY THESE PLANS, INCLUDING ANY ONSITE OR PERIMETER SCREEN OR RETAINING WALLS.

9. ALL MAJOR SLOPES SHALL BE ROUNDED INTO EXISTING TERRAIN TO PRODUCE A CONTOURED TRANSITION FROM CUT OR FILL FACES TO NATURAL GROUND AND ADJUTING CUT OR FILL SURFACES.

10. NOTWITHSTANDING THE MINIMUM STANDARDS SET FORTH IN THE GRADING ORDINANCE AND NOTWITHSTANDING THE APPROVAL OF THESE GRADING PLANS, THE PERMITTEE IS RESPONSIBLE FOR THE PREVENTION OF DAMAGE TO ADJACENT PROPERTY. NO PERSON SHALL EXCAVATE ON LAND SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY SUCH PROPERTY FROM SETTLING, CRACKING, EROSION SILTING, SCOUR OR OTHER DAMAGE, WHICH MIGHT RESULT FROM THE GRADING DESCRIBED ON THE PLAN. THE COUNTY WILL HOLD THE PERMITTEE RESPONSIBLE FOR CORRECTION OF NON-DEDICATED IMPROVEMENTS WHICH DAMAGE ADJACENT PROPERTY.

11. SPECIAL CONDITION: IF ANY ARCHEOLOGICAL RESOURCES ARE DISCOVERED ON THE SITE OF THIS GRADING OPERATION, SUCH OPERATION WILL CEASE IMMEDIATELY AND THE PERMITTEE WILL NOTIFY THE DIRECTOR OF THE PLANNING DEPARTMENT AND THE DISCOVERY. GRADING OPERATION WILL NOT RECOMMENCE UNTIL THE PERMITTEE HAS RECEIVED WRITTEN AUTHORITY FROM THE DIRECTOR OF PLANNING TO DO SO.

12. THE CONSTRUCTION OF ONE PCC STANDARD DRIVEWAY PER LOT, LOCATION TO BE DETERMINED IN THE FIELD BY ENGINEER OF WORK AND APPROVED BY COUNTY OF PUBLIC WORKS INSPECTOR. PCC SURFACING OF DRIVEWAY TO EXTEND FROM CURB TO PROPERTY LINE.

WATER NOTES

1. WATER WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS AND MATERIALS AS SPECIFIED IN THE MOST CURRENT EDITION OF THE STANDARDS OF THE AMERICAN WATER WORKS ASSOCIATION. CONTRACTOR SHALL HAVE A CURRENT COPY OF THE STANDARD SPECIFICATIONS ON THE JOB SITE AT ALL TIMES.

2. THE SUBMISSION AND REVIEW OF ALL SUBMITTALS AS REQUIRED BY THE STANDARD SPECIFICATIONS ARE TO BE ACCOMPLISHED PRIOR TO THE PRE-CONSTRUCTION MEETING WITH THE CSA DISTRICT'S INSPECTOR.

3. NO WORK MAY BEGIN OR PROCEED WITHOUT DIRECTION OF COUNTY AND CSA INSPECTOR. INSPECTOR'S SCHEDULING MUST BE 24-48 HOURS IN ADVANCE OF WORK.

4. WHERE ELEVATIONS AND GRADES ARE NOT SHOWN ON THE WATER MAIN PROFILE, TOP OF PIPE PROFILE IS 36-INCHES MINIMUM BELOW CENTERLINE OF FINISH GRADE OF STREET.

5. INSTALL A WATER SERVICE TO EACH LOT SIZE AND TYPE PER GATEWAY CSA. METER TO BE LOCATED 5-FEET FROM A SIDE LOT LINE. THE LETTER "W" SHALL BE CHISELED IN TOP OF EXISTING CURB OR IMPRINTED IN NEW CURB AT ALL WATER SERVICE CROSSINGS. SIZES WILL NOT BE LESS THAN 1 1/2" HIGH AND 3/16" DEEP.

6. MANUAL AIR RELEASES SHALL BE INSTALLED AT ALL HIGH POINTS AND BLOW-OFFS AT ALL LOW POINTS IN THE WATER MAIN PROFILE. FIRE HYDRANTS MAY BE USED IN LIEU OF MANUAL AIR RELEASE OR BLOW-OFF WHEN LOCATED AT OR NEAR HIGH OR LOW POINTS, AS APPROVED BY THE CSA REPRESENTATIVE.

7. UNLESS OTHERWISE NOTED, CONNECTION TO EXISTING MAINS SHALL BE MADE DRY. THE TIME AND DURATION OF ANY SHUTDOWNS OF EXISTING MAINS SHALL BE SUBJECT TO APPROVAL BY THE CSA. CSA SHALL BE NOTIFIED TWO WEEKS MINIMUM IN ADVANCE OF ANY SHUTDOWN.

8. CONTRACTOR SHALL COORDINATE WITH CSA ALL ARRANGEMENTS FOR HIGH-LINING TEMPORARY SERVICES, ETC., PRIOR TO SHUTDOWNS. NO SHUTDOWNS WILL BE SCHEDULED ON A FRIDAY.

9. LINE VALVES, WHERE REQUIRED AT STREET INTERSECTIONS SHALL BE LOCATED ON THE PROLONGATION OF THE STREET RIGHT-OF-WAY WHENEVER POSSIBLE.

10. FIRE HYDRANTS, AS APPROVED BY THE APPROPRIATE FIRE MARSHALL AND MEETING THE CSA STANDARD SPECIFICATIONS, ARE TO BE INSTALLED AT LOCATIONS SPECIFIED BY THE FIRE MARSHALL.

11. CONTRACTOR SHALL REVIEW ALL PROPOSED TRENCH WORK WITH CAL/OSHA. A COPY OF EXEMPTION LETTER OR TRENCHING PERMIT, IF REQUIRED, SHALL BE SUBMITTED TO THE CSA PRIOR TO CONSTRUCTION.

12. ALL EXISTING FACILITIES, WHICH MAY AFFECT FINAL DESIGN, I.E., LINE CROSSINGS, LINE PARALLELING, OR PROPOSED CONNECTIONS SHALL BE FIELD VERIFIED. ALL EXISTING OR PROPOSED UTILITY CROSSINGS, OR UTILITIES WITHIN 10-FEET OF PROPOSED WATER MAINS, SHALL BE SHOWN ON IMPROVEMENT PLANS.

13. ALL WATER SERVICES FOR IRRIGATION, AND COMMERCIAL OR INDUSTRIAL DEVELOPMENTS SHALL HAVE AN APPROVED BACKFLOW PREVENTION DEVICE ON CUSTOMER'S SIDE OF WATER METER.

14. THE WATER SYSTEM SHALL BE PRESSURE TESTED IN ACCORDANCE WITH THE PROCEDURES IN THE STANDARD SPECIFICATIONS. THE CLASS OF PIPE SHALL BE USED AS THE DESIGNATED WORKING PRESSURE FOR TESTING ALL PIPES, VALVES (CLOSED) AND APPURTENANCES.

15. CONTRACTOR TO TIE OFF ALL VALVE LOCATIONS AND PROVIDE WRITTEN DIMENSIONS TO INSPECTOR IMMEDIATELY UPON INSTALLATION OF VALVES.

16. ALL DEFLECTIONS (HORIZONTAL AND VERTICAL) SHALL BE MADE BY USE OF JOINT COUPLINGS WITH 4" MAXIMUM DEFLECTION PER COUPLING (2" PER JOINT). NO BENDING (CURVING) OF PIPE SHALL BE PERMITTED.

17. THE CONTRACTOR SHALL FURNISH AND INSTALL, PER SPECIFICATION, THE APPROPRIATE BURIED UTILITY WARNING IDENTIFICATION TAPE AND METALLIC WIRE ABOVE ALL PUBLIC WATERLINES INCLUDING WATER AND FIRE LATERALS LOCATED IN PUBLIC RIGHT OF WAY OR EASEMENT. IN ALL EASEMENTS, FLEXIBLE HIGH VISIBILITY IDENTIFICATION MARKERS ARE ADDITIONALLY REQUIRED PER CSA REQUIREMENTS.

18. THE CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF ACCEPTANCE OF THE WORK BY THE CSA AND COUNTY AND SHALL REPAIR OR REPLACE ANY OR ALL SUCH WORK, TOGETHER WITH ANY OTHER WORK WHICH MAY BE DISPLACED IN SO DOING, THAT MAY PROVE DEFECTIVE IN WORKMANSHIP AND/OR MATERIALS WITHIN THE 1 YEAR PERIOD FROM DATE OF ACCEPTANCE WITHOUT EXPENSE WHATSOEVER TO THE CSA AND THE COUNTY, ORDINARY WEAR AND TEAR, UNUSUAL ABUSE OR NEGLECT EXCEPTED.

SOIL ENGINEERS STATEMENT

A SOILS REPORT HAS BEEN PREPARED FOR THIS PROJECT BY LANDMARK CONSULTANTS, INC. OF EL CENTRO CALIFORNIA (LCI REPORT NO. LE03061 DATED 10/07/05). THESE PLANS CONSIST OF 13 SHEETS AND HAVE BEEN REVIEWED BY THE SOILS ENGINEER FOR CONFORMANCE TO THE GEOTECHNICAL SITE CONSTRAINTS AND RECOMMENDATIONS INCLUDED IN SAID REPORT.

REVIEWED BY: *Jeffrey O. Lyon* PRINCIPAL ENGINEER
R.C.E. NO. 31921, EXPIRES 12/31/06

9/22/06
DATE

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF THE PROJECT DRAWINGS AND INSPECTIONS BY THE COUNTY OF IMPERIAL IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF RESPONSIBILITIES FOR THE PROJECT DESIGN.

HALE ENGINEERING
7840 CONVOY CT.
SAN DIEGO, CA 92111
(858) 715-1420

John A. Hayes
JOHN A. HAYES, PRINCIPAL ENGINEER
RCE 58003, EXP: 6/30/2006

9-29-07
DATE



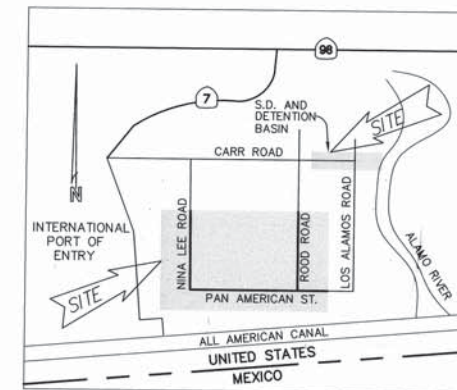
ENGINEER OF RECORD

PLANS PREPARED UNDER THE SUPERVISION OF

BY: *John A. Hayes* DATE: 9-29-07
R.C.E. NO.: 58003 EXPIRES: 06-30-08

COUNTY APPROVED

William S. Brunet
WILLIAM S. BRUNET, PE
DIRECTOR OF PUBLIC WORKS



VICINITY MAP

NOT TO SCALE

WORK TO BE DONE:

GRADING AND DRAINAGE WORK CONSISTS OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS AND THE SPECIFICATIONS AND STANDARD DRAWINGS OF THE COUNTY OF IMPERIAL AND PER IMPERIAL COUNTY GRADING ORDINANCE

- STANDARD SPECIFICATIONS:
- STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (1997 EDITION) WITH SUPPLEMENTS (A.P.W.A. SPECIFICATIONS).
 - COUNTY OF IMPERIAL PROCEDURE AND DESIGN GUIDELINES MANUAL (WITH GATEWAY STANDARD DRAWINGS) DATED DECEMBER 4, 2002 (REVISED AUGUST 6 2003)
 - CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS (CALTRANS) JULY 2002 EDITION.
 - CALIFORNIA DEPARTMENT OF TRANSPORTATION, "MANUAL OF TRAFFIC CONTROLS, FOR CONSTRUCTION AND MAINTENANCE WORK ZONES", (1990 EDITION), DOCUMENT NO. 769744, FILED NOVEMBER 7, 1990.

AS Built 7/3/07 Complete
Inspector 3/12/07
Approved 7/3/07
William S. Brunet
Director of Public Works
Imperial County

OWNER/DEVELOPER:

P3E, LLC
8910 UNIVERSITY CENTER LANE, SUITE 265
SAN DIEGO, CA 92122
(858) 546-0888

LEGAL DESCRIPTION:

PORTION OF REMAINDER LOT OF TRACT 941 UNIT NO. 1 IN AN INCORPORATED AREA OF THE COUNTY OF IMPERIAL, STATE OF CALIFORNIA, ACCORDING TO THE MAP RECORDED IN BOOK 19 AT PAGES 10 THROUGH 16 OF FINAL MAP ON FILE IN THE IMPERIAL COUNTY RECORDERS OFFICE. SAID PORTION LYING WITHIN FRACTIONAL SECTION 13, T17S-R15E AND A PORTION OF FRACTIONAL SECTION 18, T17S-R16E, SBM (CONTAINING 78 ACRES, MORE OR LESS)

BASIS OF BEARINGS

S 89°30'53" W WHICH IS THE BEARING OF CARR ROAD (NORTH LINE OF LOT 34) AS SHOWN ON TRACT 941, UNIT NO. 1 RECORDED IN BOOK 19, PAGE 10 OF FINAL MAPS.

BENCHMARK

- USGS DULL 2 - 3 1/2" BRASS CAP ON CONC. POST IN NORTH BANK OF ALL AMERICAN CANAL 5/8 400' E. OF E. SIDE CALEXICO EAST P.O.E. (EL. 42.91 M.S.L. NAVD88)
- "+" WEST SIDE SEWER M.H. RIM 95' W. OF SW. CORNER OF NINA LEE ST AND CARR RD INT. (EL. 31.82 M.S.L.)

EARTHWORK QUANTITIES

EXCAVATION: 18,220 C.Y.
FILL: 14,500 C.Y.
SHRINK: 3,720 C.Y.

WDID

7 13C340816

SHEET INDEX

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SHEET 2	NOTES, KEY MAP, SECTIONS
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SHEET 6	IMPROVEMENTS, NINA LEE STREET
SHEET 7	IMPROVEMENTS, ROAD ROAD
SHEET 8	STORM DRAIN, PAN AMERICAN ST.
SHEET 9	STORM DRAIN, SEWER, CARR ROAD
SHEET 10	STORM DRAIN, CARR ROAD
SHEET 11	STRIPING PLAN PAN
SHEET 12	DETAILS
SHEET 13	STORM WATER POLLUTION PREVENTION PLAN

BENCH MARK

DESCRIPTION: USGS STATION NAME "DULL 2"

LOCATION: NGVD29 AND CCS 83
N-182607263, E-6827670.30

ELEVATION: 42.911 DATUM: M.S.L.

IMPERIAL COUNTY PUBLIC WORKS DEPARTMENT

GATEWAY OF THE AMERICAS (CSA)
TRACT 941 - UNIT NO. 2

GRADING, STREET IMPROVEMENT, SEWER, WATER,
STORMDRAIN, STRIPING & SIGNAGE PLANS

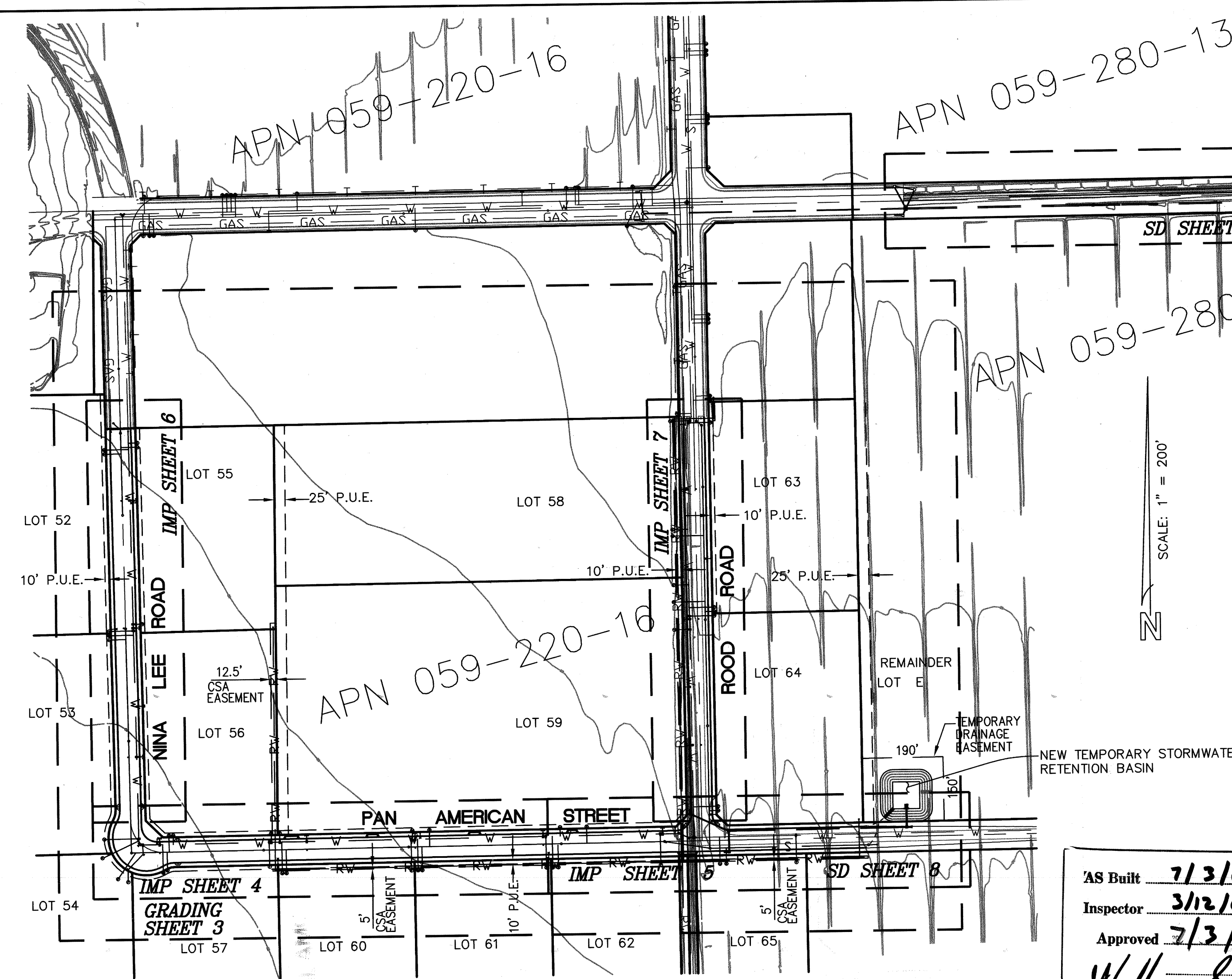
TITLE SHEET

FILE NO: 18050.08

REVISIONS

No.	Description	Approved By	Date

HALE ENGINEERING
CIVIL ENGINEERING SURVEYING LAND PLANNING
7910 CONVOY COURT
SAN DIEGO, CA 92111
(858) 715-1420
(858) 715-1424 FAX



KEY MAP
SCALE 1" = 200'

STREET IMPROVEMENT SPECIFICATIONS

ASPHALT CONCRETE - TYPE B, 3/4" MAX. SHALL CONFORM TO SECTION 39, (AR 4000) "ASPHALT CONCRETE" OF THE CALTRANS STANDARD SPECIFICATION, JULY 1999 EDITION.

AGGREGATE BASE - CLASS 2 AGGREGATE BASE SHALL CONFORM TO SECTION 26, "AGGREGATE BASES" OF THE CALTRANS STANDARD SPECIFICATIONS, JULY 1999 EDITION AND THESE SPECIFICATIONS.

AGGREGATE FOR CLASS 2 AGGREGATE BASE SHALL BE 1 1/2" MAXIMUM OR AT OPTION OF THE CONTRACTOR, 3/4" MAXIMUM. NO CLASS 2 AGGREGATE BASE UTILIZING RECYCLED MATERIALS WILL BE PERMITTED IN THE GATEWAY SPA. ALL CLASS 2 AGGREGATE BASE SHALL ALSO COMPLY WITH THE FOLLOWING:

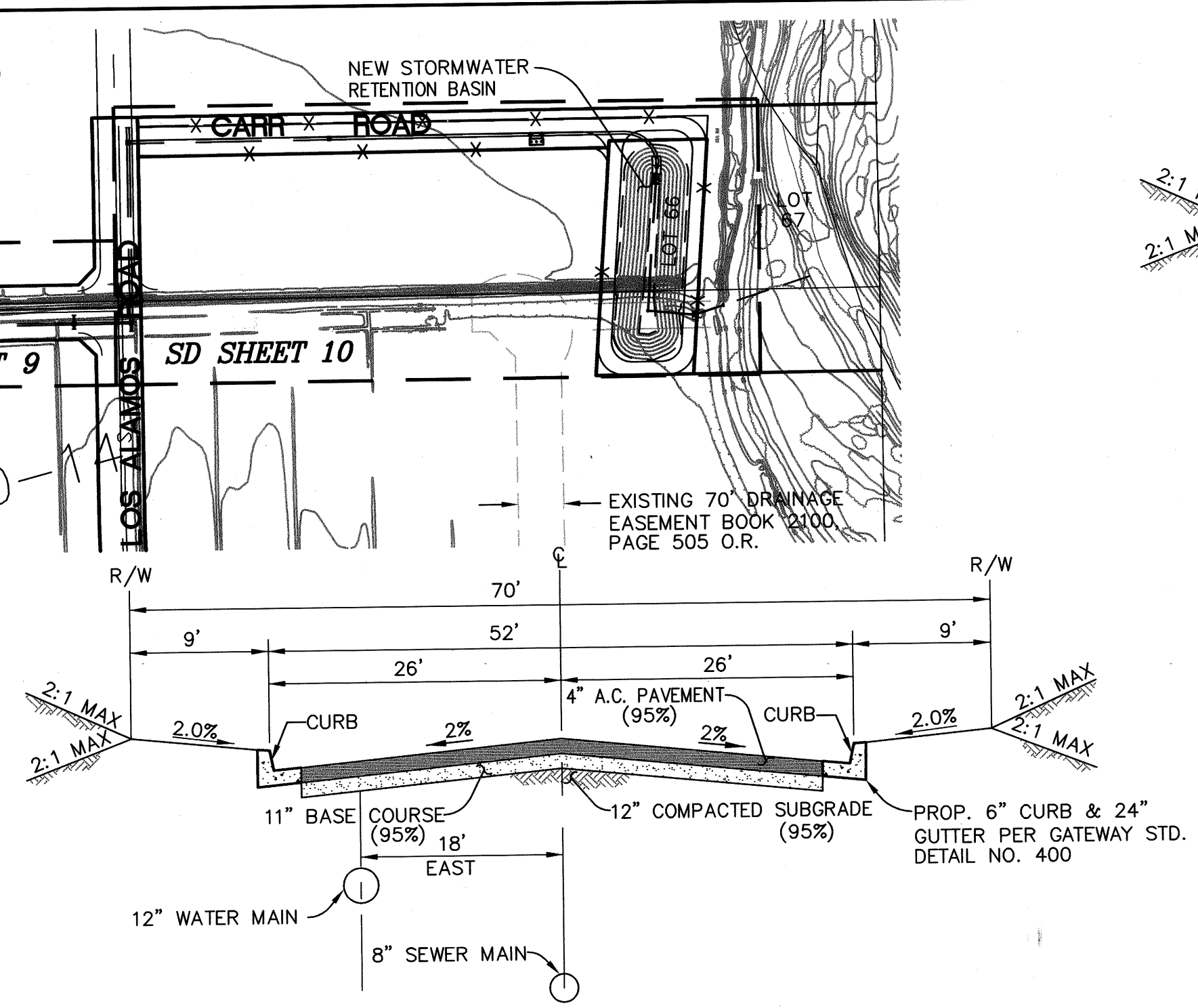
1. A CERTIFICATE OF COMPLIANCE SHALL BE PROVIDED TO THE ENGINEER PRIOR TO USE ENSURING THE CLASS 2 AGGREGATE BASE MATERIAL COMPLIES WITH THE PROVISIONS OF SECTION 26 OF THE STANDARD SPECIFICATIONS.
2. CLASS 2 AGGREGATE BASE MATERIAL FOR USE IN THIS PROJECT SHALL BE TESTED BY THE CONTRACTOR AT HIS EXPENSE PRIOR TO APPROVAL FOR USE ON THE PROJECT SITE BY THE ENGINEER. STOCKPILE LOCATIONS SHALL ALSO BE MADE AVAILABLE TO THE ENGINEER TO PERFORM HIS OWN INDEPENDENT TESTING. TESTING BY THE CONTRACTOR SHALL INCLUDE R-VALUE, SAND EQUIVALENT AND DURABILITY INDEX TESTS AS PER THE STANDARD SPECIFICATIONS.

ANY BASE MATERIAL THAT DOES NOT COMPLY WITH THE PROVISIONS FOR TESTING, GRADATION, COMPACTION OR ANY OTHER REQUIREMENT IN SECTION 26 OF THE STANDARD SPECIFICATION OR THESE SPECIAL PROVISIONS SHALL NOT BE USED AND IF ALREADY IN PLACE SHALL BE REMOVED BY THE CONTRACTOR AT HIS SOLE EXPENSE. UNDER NO CIRCUMSTANCES WILL ANY MATERIAL NOT MEETING THESE SPECIFICATIONS BE PERMITTED TO REMAIN IN PLACE.

UNDERGROUND PIPE MATERIALS

1. ALL PIPES IN ROAD RIGHT-OF-WAY SHALL MEET OR EXCEED STANDARDS FOR SCHEDULE 40 PVC WALL THICKNESS AND SDR VALUES. THIRTY INCHES (30") MINIMUM COVER DEPTH IS REQUIRED, EXCEPT FOR WATER LINES. WATERLINES SHALL HAVE THIRTY SIX INCHES (36") MINIMUM COVER DEPTH.
 2. STORM DRAIN IN ROAD RIGHT-OF-WAY SHALL BE EITHER RUBBER GASKET REINFORCED CONCRETE PIPE (RCP) CLASS III OR PVC SCHEDULE 40 WALL THICKNESS AND SDR VALUE MINIMUM. CLASS IV RCP IS REQUIRED FOR APPLICATIONS WITH LESS THAN 30 INCHES OF COVER.
 3. FOR ALL GRAVITY FLOW PVC APPLICATIONS:
 - 12" DIAMETER PVC - SDR 26 MINIMUM
 - 18" AND GREATER DIAMETER PVC - SDR 35 MINIMUM
 4. FOR PRESSURE WATER AND PRESSURE SEWER APPLICATIONS:
 - *UP TO AND INCLUDING 12" DIAMETER PVC - CLASS 150 (DR18) MINIMUM.
 - *GREATER THAN 12" DIAMETER PVC - CLASS 235 (DR 14) MINIMUM.
 - * UNLESS OTHERWISE ACCEPTED BY APPROPRIATE WATER UTILITY AGENCY (CSA)
 5. FOR OTHER NON CONVEYANCE PVC APPLICATIONS:
 - 4" DIAMETER PVC - SDR 18 MINIMUM
 - 6" DIAMETER PVC - SDR 21 MINIMUM
 - 8", 10" AND 12" DIAMETER PVC - SDR 26 MINIMUM
 - 18" AND GREATER DIAMETER PVC - SDR 35 MINIMUM
 6. ANY APPLICATIONS FOR ANY UNDERGROUND PIPE, WHICH WILL RESULT IN LESS THAN 30 INCHES OF COVER WILL REQUIRE STRUCTURAL ASSISTANCE. THIS COULD INCLUDE CONCRETE CRADLE CAPS OR SLURRY BACKFILL DEPENDING UPON CIRCUMSTANCES. APPROVAL BY THE COUNTY ENGINEER WILL BE REQUIRED PRIOR TO COVERING OF PIPES WITH INSUFFICIENT COVER.
- II K. MISCELLANEOUS STANDARDS
1. ROADWAY LIGHTING
- A. ALL DEVELOPMENTS SHALL PROVIDE STREET LIGHTING AS REQUIRED BY THE COUNTY CSA AND/OR THE DIRECTOR OF PUBLIC WORKS. ADDITIONALLY ALL STREET LIGHTING ELECTRICAL APPURTENANCES SHALL HAVE IMPERIAL IRRIGATION DISTRICT (IID) WRITTEN APPROVALS.

AS Built 7/3/07 Complete
Inspector 3/12/07
Approved 7/3/07
William S. Brunet
Director of Public Works
Imperial County

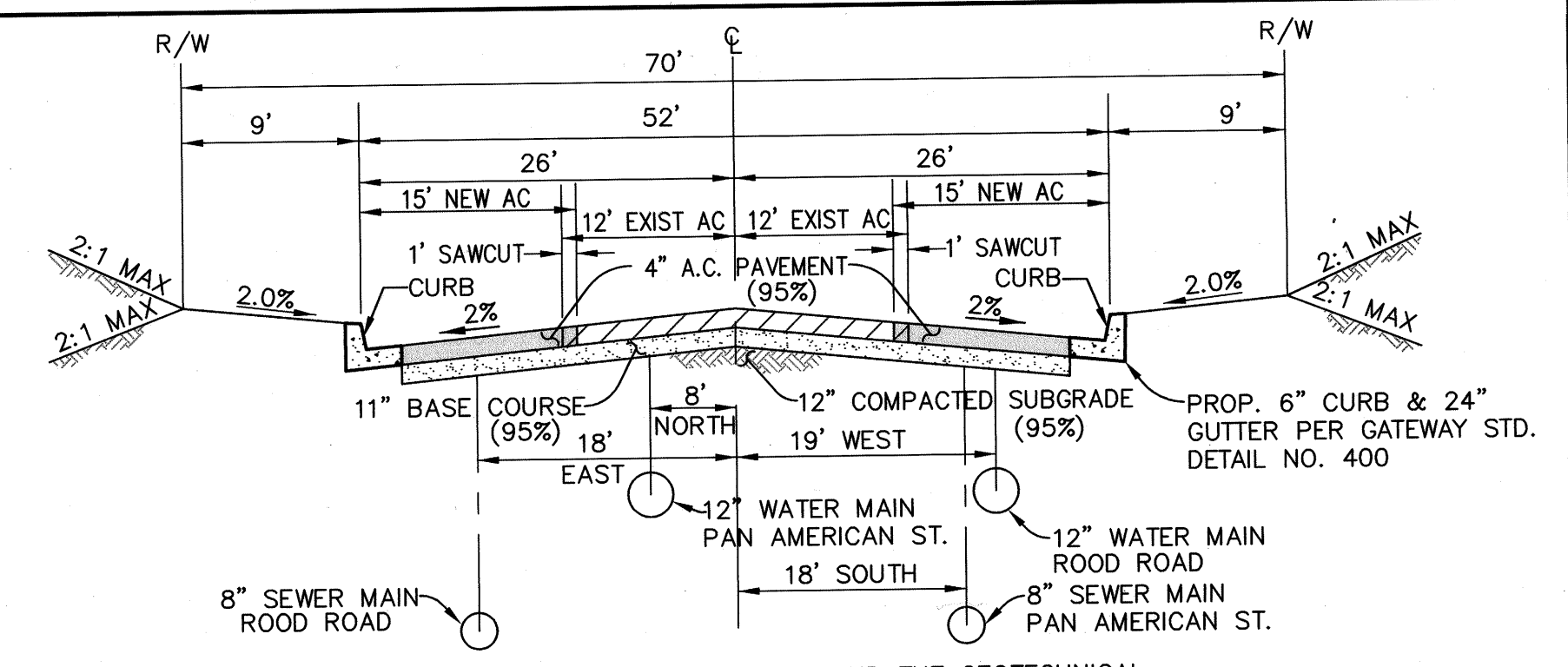


SEE GATEWAY STD. DETAIL 440 AND THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS FOR STRUCTURAL SECTION
*NOTE: THE FINAL PAVEMENT SECTION IS BASED ON THE R VALUE.

TYPICAL STREET SECTION PAN AMERICAN STREET (STA 10+00 - STA 23+25.95) AND NINA LEE STREET NOT TO SCALE

SEWER NOTES

- UNLESS OTHERWISE INDICATED HEREIN, ALL WORK SHALL BE DONE ACCORDANCE WITH:
- A. THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC) LATEST APPROVED EDITION.
 - B. THE REGIONAL SUPPLEMENTAL AMENDMENTS TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
 - C. IMPERIAL COUNTY GATEWAY CSA PROCEDURE MANUAL.
- AND THE FOLLOWING SPECIAL PROVISIONS:
1. TRENCH WIDTH SHALL BE PER GATEWAY CSA STANDARDS UNLESS COUNTY ENCROACHMENT PERMIT ADDRESSES THIS.
 2. PIPE AND BEDDING CONDITIONS SHALL BE PER GATEWAY CSA STANDARDS.
 3. AFTER COMPLETION OF PIPE LAYING, ALL MAIN LINE SEWERS, SERVICE LATERAL AND STRUCTURE SHALL BE TESTED IN THE PRESENCE OF THE INSPECTOR. AIR PRESSURE TEST, PER SSPWC SECTION 306-1.4.1, AND MANDREL TEST, PER SECTION 306-1.212 SHALL BE USED UNLESS OTHERWISE DIRECTED BY THE INSPECTOR. FINAL ACCEPTANCE OF SEWER LINES MAY BE SUBJECT TO INTERNAL TELEVISION INSPECTION. IT WILL BE THE PERMITTEE'S RESPONSIBILITY TO PAY FOR THE COST OF THIS WORK.
 4. THE CONSTRUCTION OF PCC SEWER MANHOLE, POURED-IN-PLACE MANHOLE BASES SHALL BE A MONOLITHIC POUR FINISHED COMPLETE AT TIME OF POUR, UNLESS OTHERWISE APPROVED.
 5. THE CONSTRUCTION OF SEWER LATERAL PER GATEWAY CSA STANDARDS SHALL NOT DISCHARGE DIRECTLY INTO MANHOLE. A CLEANOUT SHALL BE INSTALLED APPROXIMATELY ONE FOOT OUTSIDE THE PROPERTY LINE.
 6. ALL MAINS AND LATERALS SHALL BE CONSTRUCTED WITH 60 INCH MINIMUM COVER, PROVIDED THAT THE INVERT OF THE LATERAL AT THE PROPERTY LINE IS ABOVE THE SOFFIT LINE OF THE SEWER MAIN.
 7. THE FINAL LOCATION AND ELEVATION OF SEWER AND WATER LATERALS SHALL BE SHOWN ON ORIGINAL PLANS, PRIOR TO ACCEPTANCE FOR PUBLIC USE.
 8. ALL DESIGN CHANGES OF SEWER MAINS SHALL BE APPROVED BY THE CSA ENGINEER AND THE PUBLIC WORKS DIRECTOR IN WRITING PRIOR TO ACCEPTANCE FOR PUBLIC USE.
 9. FILL AREAS MUST BE COMPACTED TO 90% PRIOR TO PIPE INSTALLATION.
 10. THE CONTRACTOR SHALL NOTIFY THE CSA INSPECTION DEPARTMENT 48 HOURS IN ADVANCE OF BEGINNING OF WORK TO ARRANGE FOR INSPECTION OF PROJECT.
 11. THE CONTRACTOR SHALL PURCHASE A PERMIT FROM THE COUNTY DEPARTMENT OF PUBLIC WORKS AND THE CSA FOR ANY EXCAVATION OR ANY WORK WITHIN EXISTING COUNTY RIGHT-OF-WAY OR PUBLIC EASEMENT.
 12. CONTRACT RECORD DRAWINGS MUST BE SUBMITTED PRIOR TO FINAL ACCEPTANCE OF THE WORK. THEY MUST REFLECT POST CONSTRUCTION VERIFICATION OF PIPE LENGTHS AND INVERT ELEVATIONS.
 13. THE CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF ACCEPTANCE OF THE WORK BY THE CSA AND COUNTY AND SHALL REPAIR OR REPLACE ANY OR ALL SUCH WORK, TOGETHER WITH ANY OTHER WORK WHICH MAY BE DISPLACED IN SO DOING, THAT MAY PROVE DEFECTIVE IN WORKMANSHIP AND/OR MATERIALS WITHIN THE 1 YEAR PERIOD FROM DATE OF ACCEPTANCE WITHOUT EXPENSE WHATSOEVER TO THE CSA AND THE COUNTY, ORDINARY WEAR AND TEAR, UNUSUAL ABUSE OR NEGLIGENCE EXCEPTED.
 14. THE CONTRACTOR SHALL FURNISH AND INSTALL, PER SPECIFICATIONS, THE APPROPRIATE BURIED UTILITY WARNING IDENTIFICATION TAPE AND METALLIC TRACING WIRE ABOVE ALL PUBLIC SEWER LINES INCLUDING SEWER LATERAL LOCATED IN PUBLIC RIGHT-OF-WAY OR EASEMENT. IN ALL EASEMENTS, FLEXIBLE HIGH VISIBILITY IDENTIFICATION MARKERS ARE ADDITIONALLY REQUIRED PER CSA REQUIREMENTS.
 15. AT ALL MANHOLES, THE MINIMUM FALL ACROSS MANHOLES SHALL BE 0.1 FT. RIGHT ANGLES LARGER THAN 45 DEGREES, ALLOW 0.2 FT. OF FALL.

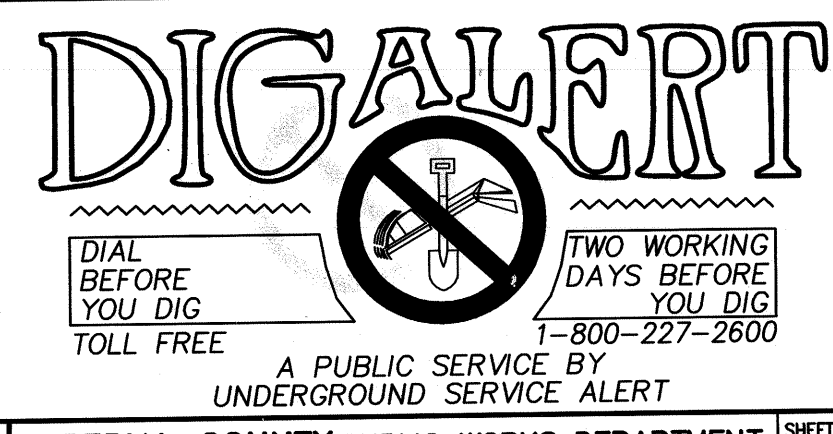


SEE GATEWAY STD. DETAIL 440 AND THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS FOR STRUCTURAL SECTION
*NOTE: THE FINAL PAVEMENT SECTION IS BASED ON THE R VALUE.

TYPICAL STREET SECTION PAN AMERICAN STREET (STA 23+25.95 - STA 27+16.44) AND ROAD ROAD NOT TO SCALE

IMPROVEMENTS	GATEWAY STD. DWG	SYMBOL
LOT LINES		1800
EXISTING CONTOUR		W
EXISTING WATER		S
EXISTING SEWER		
EXISTING SEWER MANHOLE		
EXISTING STORM DRAIN		
EXISTING A.C. PAVEMENT		
PROPOSED A.C. PAVEMENT	(SEE ROAD SECTION FOR THICKNESS)	
PROPOSED GRAVEL PAVEMENT	(SEE DETAIL SHEET 10)	
PROPOSED SAWCUT		
DRIVEWAY ACCESS	GATEWAY STD. NO. 410	
PED RAMP G-27 (TYPE 'A'), G-32	GATEWAY STD. NO. 414	
6" CURB & GUTTER	GATEWAY STD. NO. 400	
CURB INLET JUNCTION BOX	CALTRANS STD. PLAN D-72, TYPE OL	
JUNCTION BOX	GATEWAY STD. NO. 300	
STRAIGHT HEAD WALL	SEE COUNTY OF SD STD. DWG D-32, SHT. 12	
RCP STORM DRAIN	SECT. III E., DRAINAGE IMPROVEMENTS	
RIP RAP	SEE DETAIL SHT. 12	
PROPOSED RAW WATER MAIN		RW
PROPOSED WATER MAIN	CSA SPECS. STD. NO. 500	W
THRUST BLOCK	GATEWAY STD. NO. 100, 105	
GATE VALVE	GATEWAY STD. NO. 125	
6" FIRE HYDRANT	GATEWAY STD. NO. 145	
2" WATER SERVICE	GATEWAY STD. NO. 115	
8" FIRE SERVICE	GATEWAY STD. NO. 150	
2" BLOWOFF	GATEWAY STD. NO. 140	
2" AIR VACUUM	GATEWAY STD. NO. 135	
SEWER MAIN	CSA SPECS. / GATEWAY STD. NO. 500	S
SEWER MANHOLE	GATEWAY STD. NO. 204	
SEWER LATERAL	GATEWAY STD. NO. 210	
STREET LIGHT STANDARD	GATEWAY STD. NO. 610	
STREET NAME SIGN	GATEWAY STD. NO. 510	
FINISHED GRADE ELEV.		F.G. 40.00
TOP OF CURB ELEV.		T.C. 40.00
FLOW LINE ELEV.		F.L. 40.00
INVERT ELEVATION		I.E. 40.00

ABBREVIATIONS	
AC	ASPHALT CONCRETE
DR	DRIVEWAY
F	FIRE
FG	FINISH GRADE
FL	FLOW LINE
GB	GRADE BREAK
GR	GRATE ELEVATION
IE	INVERT ELEVATION
P/L	PROPERTY LINE
R.O.W.	RIGHT-OF-WAY
RW	RAW WATER
S	SEWER
SMH	SEWER MANHOLE
SDMH	STORM DRAIN MANHOLE
SL	STREET LIGHT
SMH	SEWER MANHOLE
TC	TOP OF CURB
TF	TOP OF FOOTING
TP	TOP OF PIPE
TW	TOP OF WALL
W	WATER



REVISIONS

No.	Description	Approved By	Date

HALE ENGINEERING
CIVIL ENGINEERING SURVEYING LAND PLANNING
7910 CONVOY COURT
SAN DIEGO, CA 92111
(658) 715-1420
(658) 715-1424 FAX



ENGINEER OF RECORD

PLANS PREPARED UNDER THE SUPERVISION OF

BY: DATE: 4-24-07
JOHN A. HAZES
R.C.E. NO.: 58003 EXPIRES: 06-30-08

COUNTY APPROVED

BY: DATE: 7-7-07
WILLIAM S. BRUNET, PE
DIRECTOR OF PUBLIC WORKS

BENCH MARK

DESCRIPTION: USGS STATION NAME "DULL 2"

LOCATION: NGVD29 AND CCS 83
N-182607263, E-6827670.30

ELEVATION: 42.911 DATUM: M.S.L.

IMPERIAL COUNTY PUBLIC WORKS DEPARTMENT

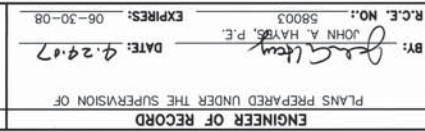
GATEWAY OF THE AMERICAS (CSA)
TRACT 941 - UNIT NO. 2

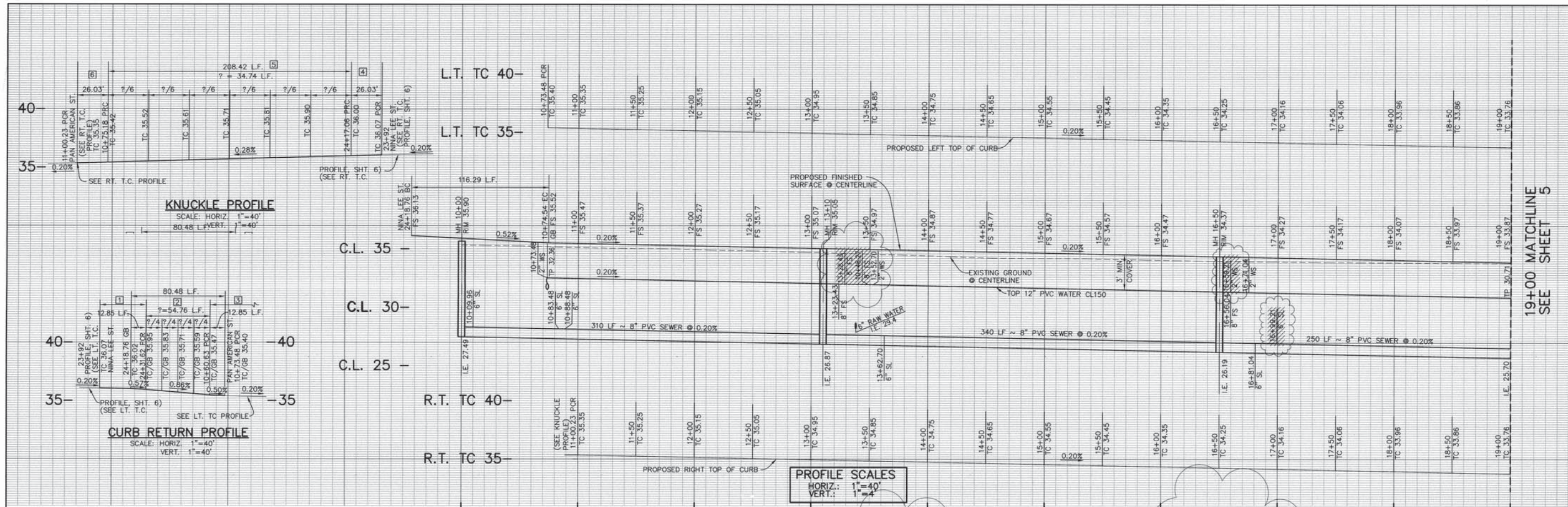
GRADING, STREET IMPROVEMENT, SEWER, WATER,
STORMDRAIN, STRIPING & SIGNAGE PLANS
SECTIONS, LEGEND, KEY MAP

OWNER/PERMITTEE: PJE, LLC FILE NO: 18555.08

SHEET: 2 OF 13

HATE ENGINEERING
CIVIL ENGINEERING SURVEYING LAND PLANNING
7910 CONWAY COURT
SAN DIEGO, CA 92111
(609) 715-1420 FAX
(609) 715-1424 FAX

[illegible]



CENTERLINE DATA

DELTA/BRG.	RADIUS	LENGTH	REMARK
N 89°29'07" E		900.00'	

CURB

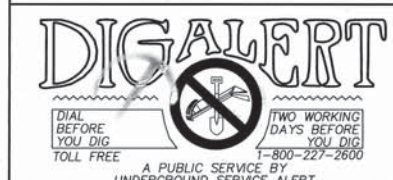
DELTA/BRG.	RADIUS	LENGTH	REMARK
N 0°52'04" W	39.62'	6"	STD. 400
N 89°38'49" E	54.76'	6"	STD. 400
N 89°29'07" E	839.37'	6"	STD. 400
30°45'20" E	49.00'	6"	STD. 400
151°09'22" E	79.00'	6"	STD. 400
30°45'13" E	49.00'	6"	STD. 400
N 89°29'07" E	799.77'	6"	STD. 400

WATER DATA

DELTA/BRG.	RADIUS	LENGTH	REMARK
N 0°52'04" W	82.35'	12" PVC	
N 89°29'07" E	882.11'	12" PVC	

SEWER DATA

DELTA/BRG.	RADIUS	LENGTH	REMARK
N 0°52'04" W	100.24'	8" PVC	
N 89°29'07" E	310.00'	8" PVC	
N 89°29'07" E	340.00'	8" PVC	
N 89°29'07" E	250.00'	8" PVC	



NOTE: SIDEWALKS AND DRIVEWAYS TO BE PROVIDED BY ONSITE DEVELOPMENTS.

HALE ENGINEERING
 CIVIL ENGINEERING SURVEYING LAND PLANNING
 7910 CONVOY COURT
 SAN DIEGO, CA 92111
 (619) 715-1420
 (619) 715-1424 FAX



ENGINEER OF RECORD
 PLANS PREPARED UNDER THE SUPERVISION OF
 BY: *John A. Hayes* DATE: 4-24-07
 JOHN A. HAYES P.E.
 R.C.E. NO.: 58003 EXPIRES: 06-30-08

COUNTY APPROVED
 BY: *William S. Brunet* DATE: 7-7-07
 WILLIAM S. BRUNET, PE
 DIRECTOR OF PUBLIC WORKS
 DATE:

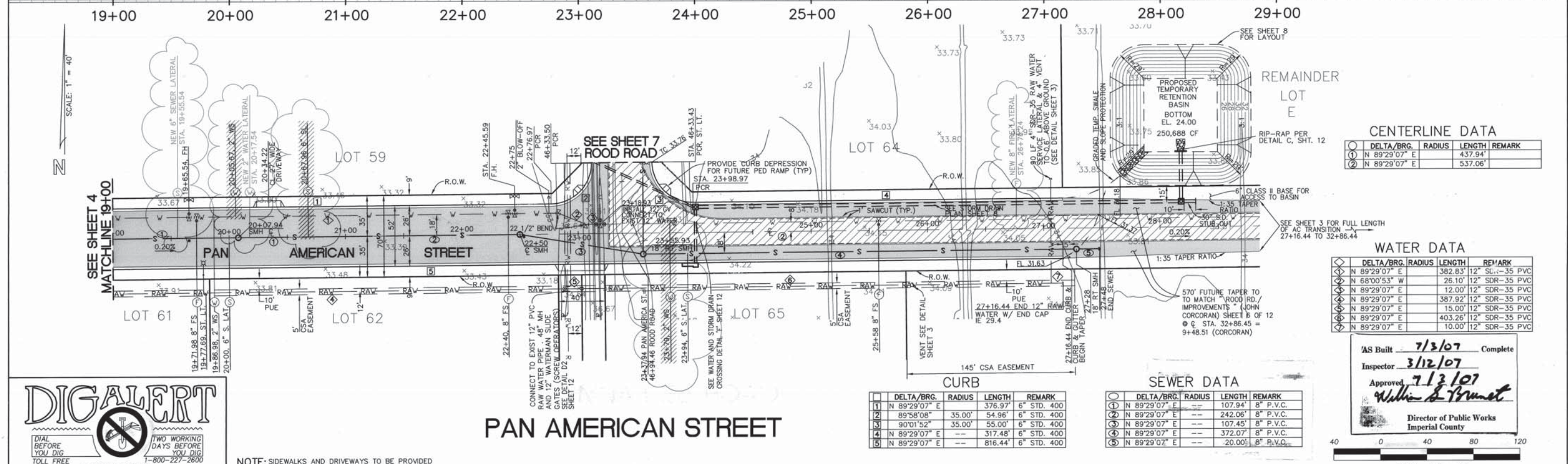
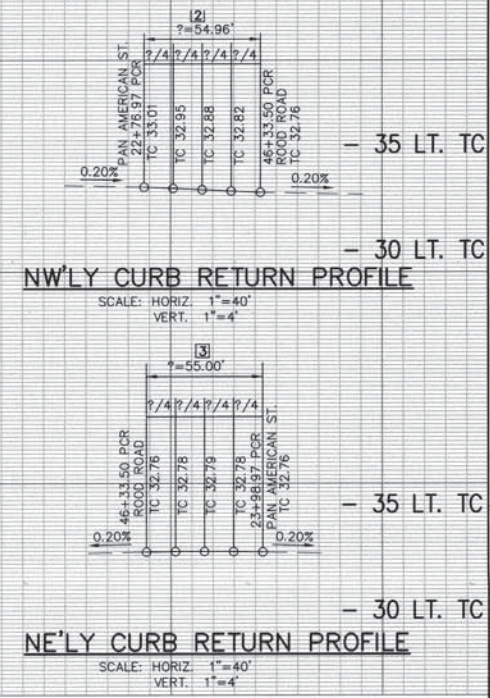
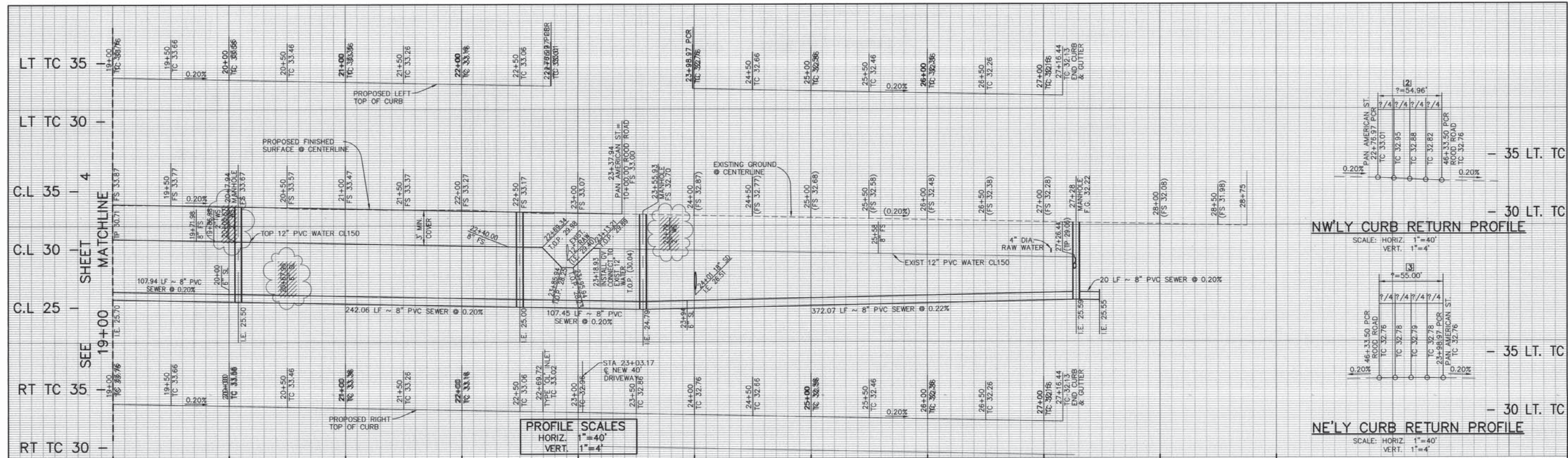
BENCH MARK
 DESCRIPTION: USGS STATION NAME "DULL 2"
 LOCATION: NGVD29 AND CCS 83
 N-182607263, E-682767030
 ELEVATION: 42.911 DATUM: M.S.L.

IMPERIAL COUNTY PUBLIC WORKS DEPARTMENT
 GATEWAY OF THE AMERICAS (CSA)
 TRACT 941 - UNIT NO. 2
 STREET IMPROVEMENT, WATER, AND SEWER
 PAN AMERICAN ROAD
 OWNER/PERMITTEE: P.W. LLC
 FILE NO.: 16555.08

19+00 MATCHLINE
SEE SHEET 5

19+00 MATCHLINE
SEE SHEET 5

DATE: 3/13/07
 H.E. JOB NO. 0344



CENTERLINE DATA

○	DELTA/BRG.	RADIUS	LENGTH	REMARK
①	N 89°29'07" E		437.94'	
②	N 89°29'07" E		537.06'	

32+86.44

WATER DATA

DELTA/BRG.	RADIUS	LENGTH	REMARK
N 89°29'07" E	382.83'	12"	SL--35 PVC
N 86°00'53" W	26.10'	12"	SDR--35 PVC
N 89°29'07" E	12.00'	12"	SDR--35 PVC
N 89°29'07" E	387.92'	12"	SDR--35 PVC
N 89°29'07" E	15.00'	12"	SDR--35 PVC
N 89°29'07" E	403.26'	12"	SDR--35 PVC
N 89°29'07" E	10.00'	12"	SDR--35 PVC

SEWER DATA

○	DELTA/BRG.	RADIUS	LENGTH	REMARK
①	N 89°29'07" E	---	107.94'	8" P.V.C.
②	N 89°29'07" E	---	242.06'	8" P.V.C.
③	N 89°29'07" E	---	107.45'	8" P.V.C.
④	N 89°29'07" E	---	372.07'	8" P.V.C.
⑤	N 89°29'07" E	---	20.00'	8" P.V.C.

CURB

	DELTA/BRG.	RADIUS	LENGTH	REMARK
1	N 89°29'07" E		376.97'	6" STD. 400
2	89°58'08"	35.00'	54.96'	6" STD. 400
3	90°01'52"	35.00'	55.00'	6" STD. 400
4	N 89°29'07" E	--	317.48'	6" STD. 400
5	N 89°29'07" E	--	816.44'	6" STD. 400

AS Built 7/3/07 Complete
Inspector 3/12/07
Approved 7/13/07
Director of Public Works
Imperial County



REVISIONS table with columns: No., Description, Approved By, Date.

HALE ENGINEERING
CIVIL ENGINEERING SURVEYING LAND PLANNING
7010 CONVOY COURT
SAN DIEGO, CA 92111
(858) 715-1420
(858) 715-1424 FAX



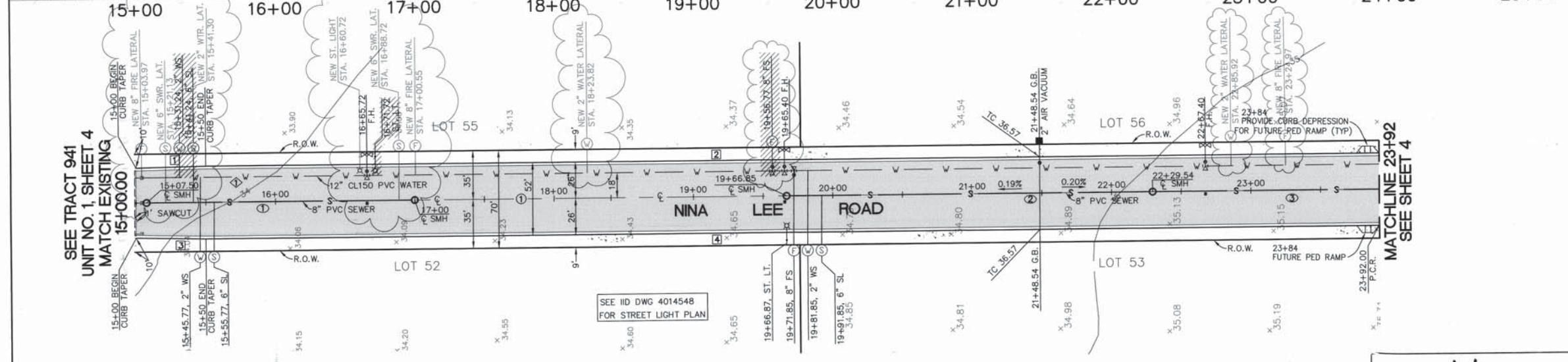
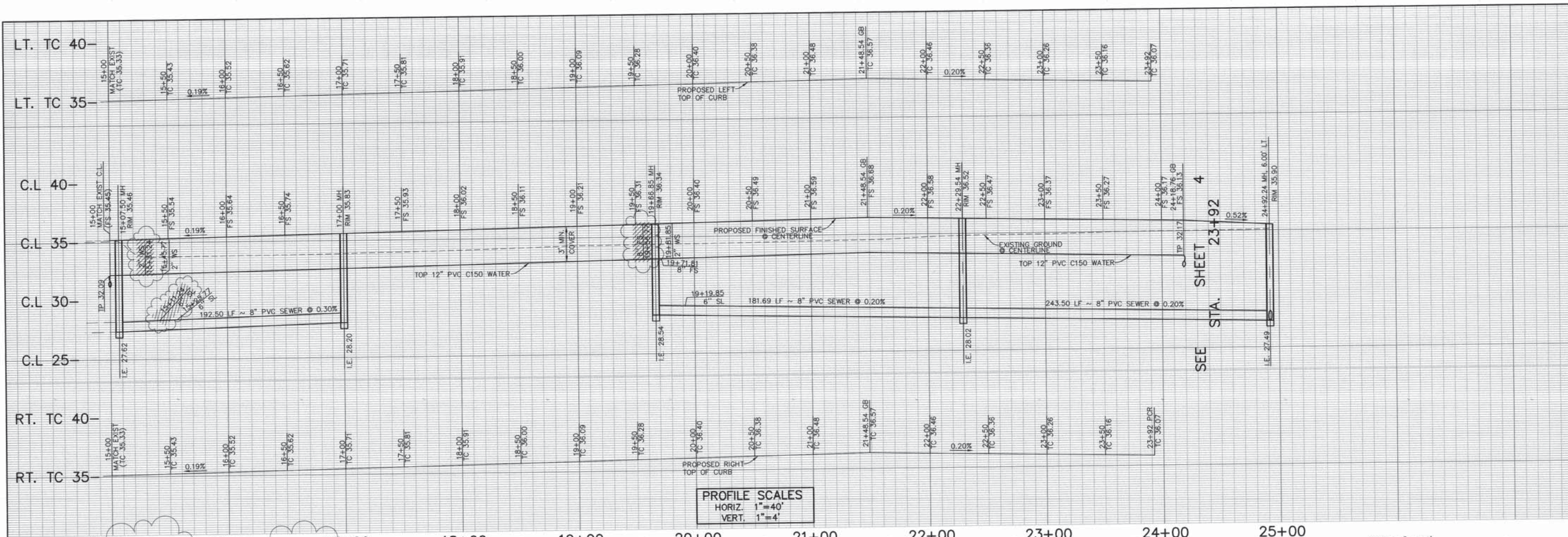
ENGINEER OF RECORD
PLANS PREPARED UNDER THE SUPERVISION OF
BY: John A. Hayes, P.E.
R.C.E. NO.: 58003
DATE: 7-29-07
EXPIRES: 08-30-08

COUNTY APPROVED
WILLIAM S. BRUNET, PE
DIRECTOR OF PUBLIC WORKS
DATE: 7-2-07

BENCH MARK
DESCRIPTION: USGS STATION NAME "DULL 2"
LOCATION: NGVD29 AND CCS 83
ELEVATION: 42.911
DATUM: M.S.L.

IMPERIAL COUNTY PUBLIC WORKS DEPARTMENT
GATEWAY OF THE AMERICAS (CSA)
TRACT 941 - UNIT NO. 2
STREET IMPROVEMENT, WATER, AND SEWER
PAN AMERICAN STREET
OWNER/PERMITTEE: PSE, LLC
FILE NO.: 16555.08
SHEET: 5 OF 13

DATE: 3/13/07
H.E. JOB NO. 0344



SCALE: 1" = 40'

CENTERLINE DATA

DELTA/BRG.	RADIUS	LENGTH	REMARK
N 0°52'04" W		918.76'	

CURB

DELTA/BRG.	RADIUS	LENGTH	REMARK
N 2°00'11" W		50.01'	6" STD. 400
N 0°52'04" W		842.00'	6" STD. 400
N 0°16'03" E		50.01'	6" STD. 400
N 0°52'04" W		842.00'	6" STD. 400

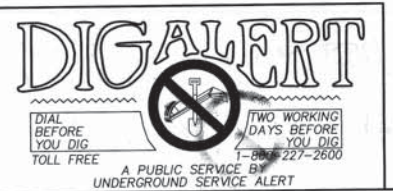
WATER DATA

DELTA/BRG.	RADIUS	LENGTH	REMARK
N 0°52'04" W		887.00'	12" PVC

SEWER DATA

DELTA/BRG.	RADIUS	LENGTH	REMARK
N 0°52'04" W		192.50'	8" PVC
N 0°52'04" W		262.70'	8" PVC
N 0°52'04" W		162.46'	8" PVC

SCALE 1" = 40'



NOTE: FUTURE SIDEWALKS AND DRIVEWAYS TO BE PROVIDED BY ONSITE DEVELOPMENTS.

HALE ENGINEERING
 CIVIL ENGINEERING SURVEYING LAND PLANNING
 7910 CONVOY COURT
 SAN DIEGO, CA 92111
 (658) 715-1420
 (658) 715-1424 FAX

NINA LEE ROAD



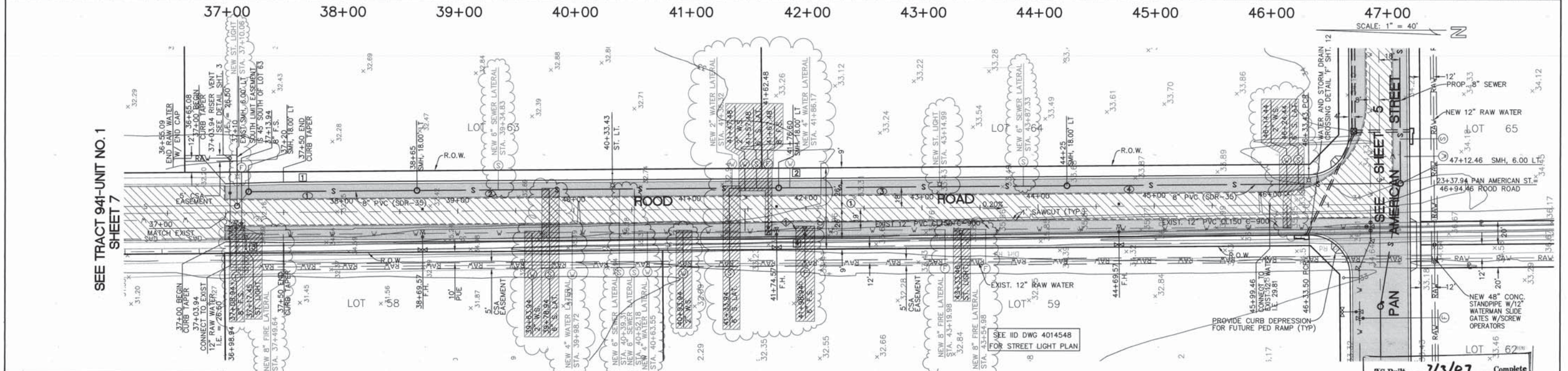
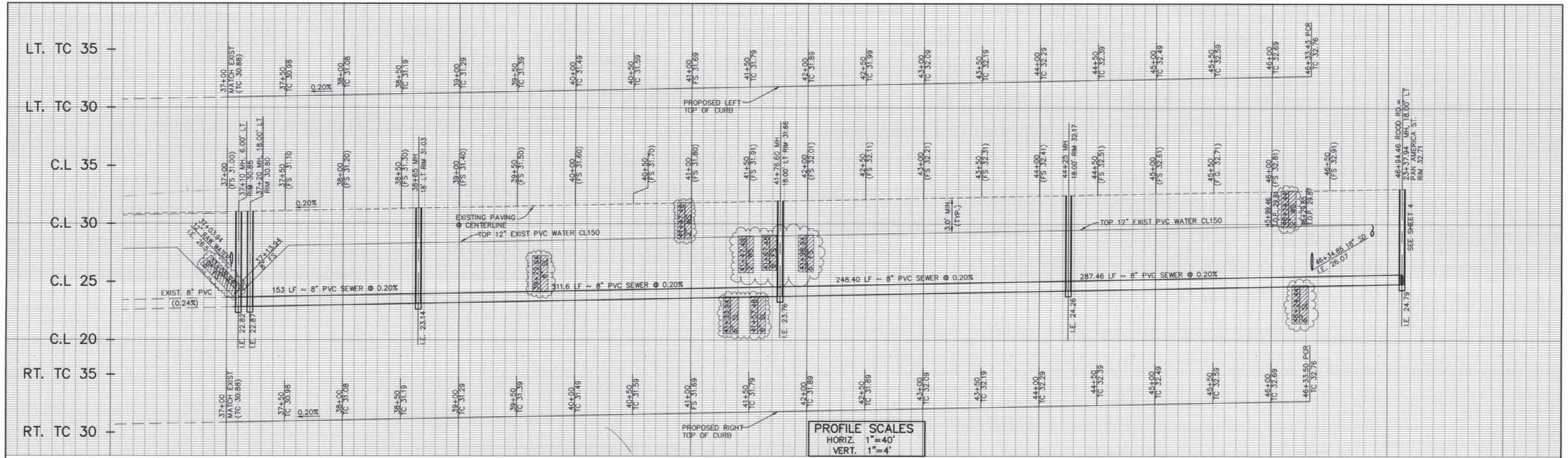
ENGINEER OF RECORD
 PLANS PREPARED UNDER THE SUPERVISION OF
 BY: John A. Hayes DATE: 4.24.07
 JOHN A. HAYES
 R.C.E. NO.: 58003 EXPIRES: 06-30-08

COUNTY APPROVED
 WILLIAM S. BRUNET, PE
 DIRECTOR OF PUBLIC WORKS
 DATE: 7-3-07

BENCH MARK
 DESCRIPTION: USGS STATION NAME "DULL 2"
 LOCATION: NGVD29 AND CCS 83
N-182607263, E-6827670.30
 ELEVATION: 42.911 DATUM: M.S.L.

IMPERIAL COUNTY PUBLIC WORKS DEPARTMENT
 GATEWAY OF THE AMERICAS (CSA)
 TRACT 941 - UNIT NO. 2
 STREET IMPROVEMENT PLANS, WATER, AND SEWER
 NINA LEE ROAD
 OWNER/PERMITTEE: PSE, LLC
 SHEET: 6 OF 13
 FILE NO.: 16555.08

H.E. JOB NO. 0344 DATE: 3/13/07



NOTE: FUTURE SIDEWALKS AND DRIVEWAYS TO BE PROVIDED BY ONSITE DEVELOPMENTS.

ROAD ROAD

CENTERLINE DATA

DELTA/BRG.	RADIUS	LENGTH	REMARK
① N 00°29'01" W	996.00'		

CURB

DELTA/BRG.	RADIUS	LENGTH	REMARK
① N 01°37'46" W	50.00'	6", STD. 400	
② N 00°29'01" W	883.50'	6", STD. 400	
③ N 00°39'44" W	50.01'	6", STD. 400	
④ N 00°29'01" W	883.50'	6", STD. 400	

SEWER DATA

DELTA/BRG.	RADIUS	LENGTH	REMARK
① N 00°29'01" W	145.00'	8" PVC	
② N 00°29'01" W	311.60'	8" PVC	
③ N 00°29'01" W	248.40'	8" PVC	
④ N 00°29'01" W	287.46'	8" PVC	

AS Built 7/3/07 Complete
Inspector 3/12/07
Approved 2/3/07
William S. Brunet
Director of Public Works
Imperial County
SCALE 1" = 40'

No.	Description	Approved By	Date

HALE ENGINEERING
CIVIL ENGINEERING SURVEYING LAND PLANNING
7910 CONVOY COURT
SAN DIEGO, CA 92111
(858) 715-1420
(858) 715-1424 FAX



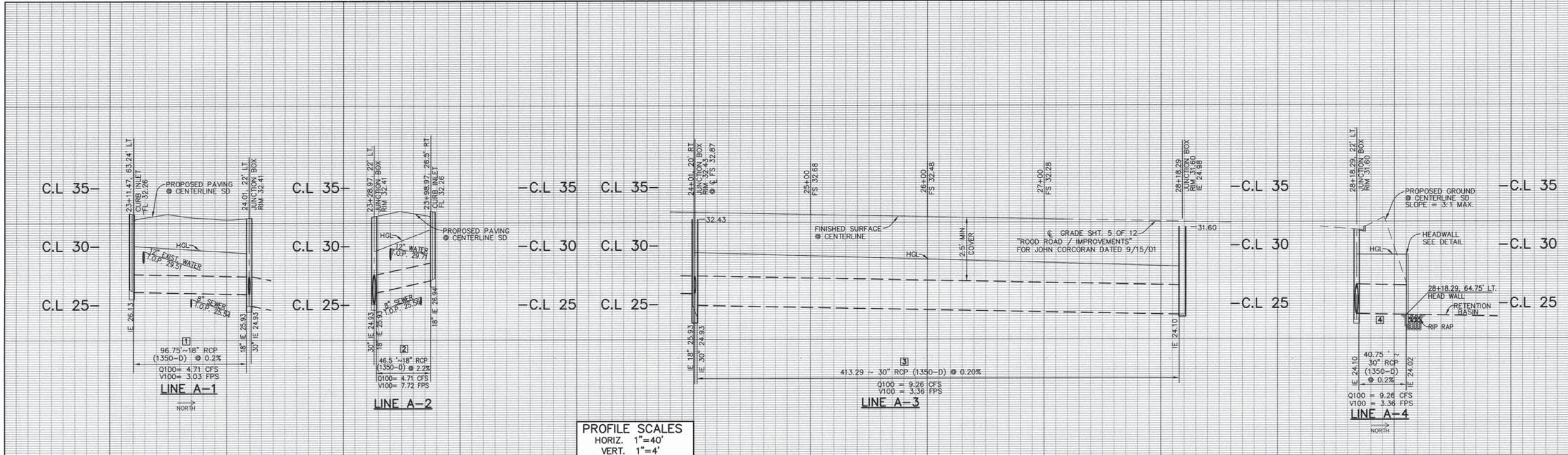
ENGINEER OF RECORD
PLANS PREPARED UNDER THE SUPERVISION OF
BY: *John A. Hayes* DATE: 9-24-07
JOHN A. HAYES
R.C.E. NO.: 58003 EXPIRES: 06-30-08

COUNTY APPROVED
William S. Brunet DATE: 7-3-07
WILLIAM S. BRUNET, PE
DIRECTOR OF PUBLIC WORKS

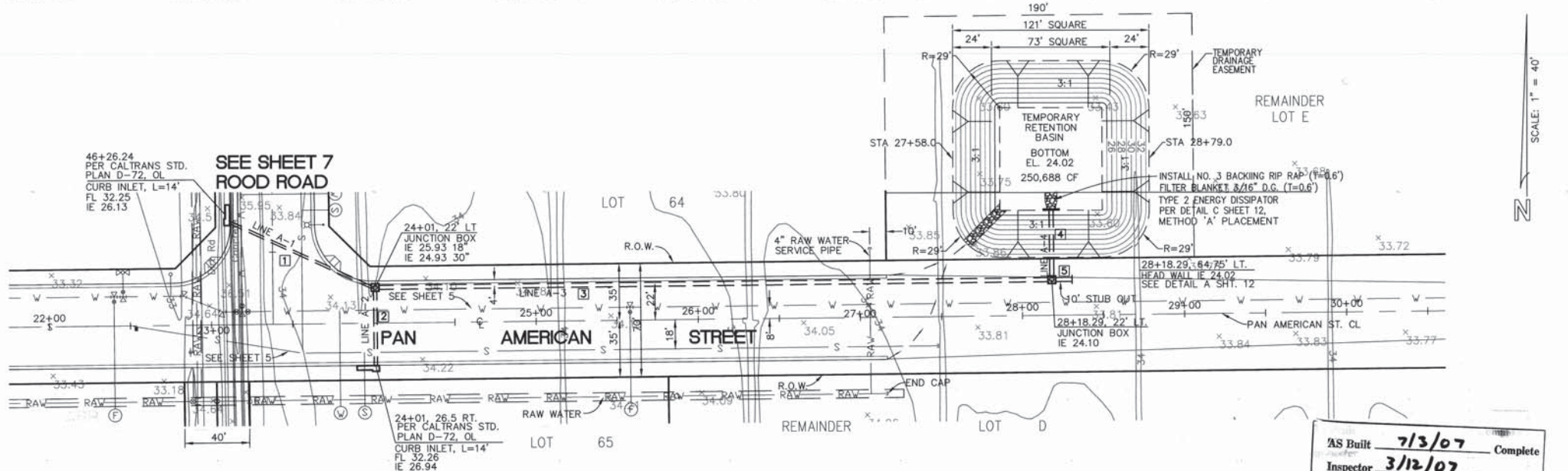
BENCH MARK
DESCRIPTION: USGS STATION NAME "DULL 2"
LOCATION: NGVD29 AND CCS 83
N-182607263, E-6827670.30
ELEVATION: 42.911 DATUM: M.S.L.

IMPERIAL COUNTY PUBLIC WORKS DEPARTMENT
GATEWAY OF THE AMERICAS (CSA)
TRACT 941 - UNIT NO. 2
STREET IMPROVEMENT PLANS, WATER, AND SEWER
ROAD ROAD
OWNER/PERMITTEE: PSE, LLC
FILE NO.: 10555.08

DATE: 3/13/07
JOB NO. 0344
SHEET 7 OF 13



22+00 23+00 24+00 25+00 26+00 27+00 28+00 29+00

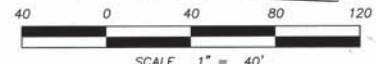


STORM DRAIN



STORM DRAIN DATA				
NO.	DELTA/BRG.	RADIUS	LENGTH	REMARK
1	N 56°17'53" W	96.75'	18"	RCP (1350-D)
2	N 00°30'53" W	46.50'	18"	RCP (1350-D)
3	N 89°29'07" E	413.29'	30"	RCP (1350-D)
4	N 00°30'53" W	40.75'	30"	RCP (1350-D)
5	N 89°29'07" E	10.50'	30"	RCP (1350-D)

AS Built 7/13/07 Complete
Inspector 3/12/07
Approved 7/13/07
William S. Brunet
Director of Public Works
Imperial County



REVISIONS			
No.	Description	Approved By	Date

HALE ENGINEERING
CIVIL ENGINEERING SURVEYING LAND PLANNING
7910 CONVOY COURT SAN DIEGO, CA 92111 (858) 715-1420 (858) 715-1424 FAX

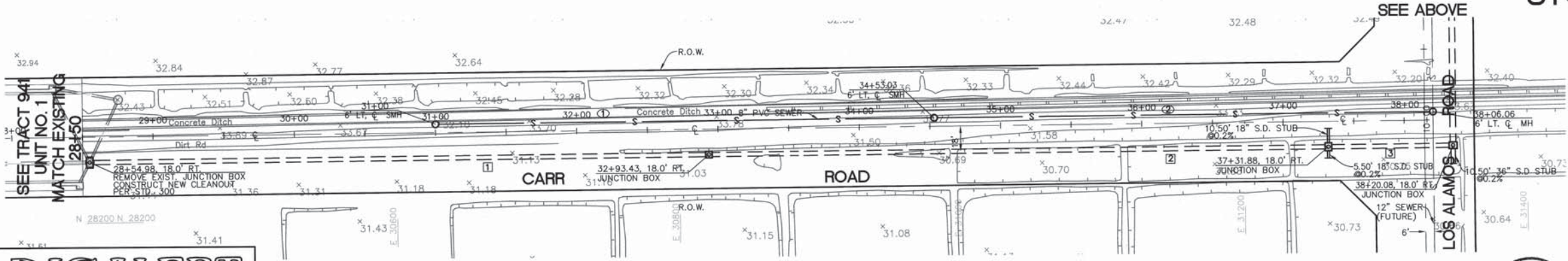
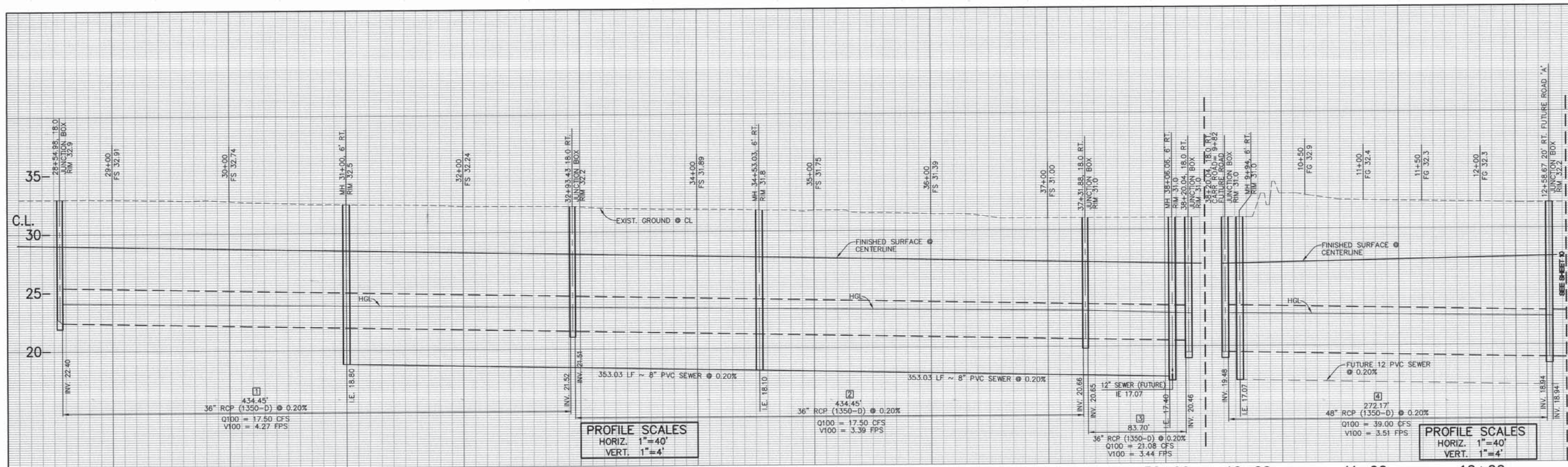
ENGINEER OF RECORD
PLANS PREPARED UNDER THE SUPERVISION OF
BY: *John A. Hayes* DATE: 4-24-07
JOHN A. HAYES, P.E.
R.C.E. NO.: 58003 EXPIRES: 06-30-08

COUNTY APPROVED
William S. Brunet DATE: 7-7-07
WILLIAM S. BRUNET, PE
DIRECTOR OF PUBLIC WORKS

BENCH MARK
DESCRIPTION: USGS STATION NAME "DULL 2"
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N-182607263, E-6827670.30
ELEVATION: 42.911 DATUM: M.S.L.

IMPERIAL COUNTY PUBLIC WORKS DEPARTMENT
GATEWAY OF THE AMERICAS (CSA)
TRACT 941 - UNIT NO. 2
STORM DRAIN
PAN AMERICAN STREET
OWNER/PERMITTEE: PSC, LLC
FILE NO.: 18556.08

DATE: 3/13/07
JOB NO. 0344

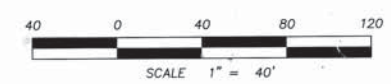


DELTA/BRG.	RADIUS	LENGTH	REMARK
1 N 89°37'48" E	434.45'	36" RCP (1350-D)	
2 N 89°37'48" E	434.45'	36" RCP (1350-D)	
3 N 89°37'48" E	83.70'	36" RCP (1350-D)	
4 N 00°29'01" W	272.17'	48" RCP (1350-D)	
5 N 00°29'01" W	20.00'	48" RCP (1350-D)	

DELTA/BRG.	RADIUS	LENGTH	REMARK
1 N 89°37'48" E	353.03'	8" PVC	
2 N 89°37'48" E	353.03'	8" PVC	



AS Built 7/3/07 Complete
 Inspector 3/12/07
 Approved 7/3/07
 William S. Brunet
 Director of Public Works
 Imperial County



No.	Description	Approved By	Date

HALE ENGINEERING
 CIVIL ENGINEERING SURVEYING LAND PLANNING
 7910 CONVOY COURT
 SAN DIEGO, CA 92111
 (858) 715-1420
 (858) 715-1424 FAX

ENGINEER OF RECORD
 PLANS PREPARED UNDER THE SUPERVISION OF
 BY: *John A. Hales* DATE: 4-24-07
 JOHN A. HALES, P.E.
 R.C.E. NO.: 58003 EXPIRES: 06-30-08

COUNTY APPROVED
 WILLIAM S. BRUNET, PE
 DIRECTOR OF PUBLIC WORKS
 DATE: 7-3-07

BENCH MARK
 DESCRIPTION: USGS STATION NAME "DULL 2"
 LOCATION: NGVD29 AND CCS 83
 N-182607263, E-6827670.30
 ELEVATION: 42.911 DATUM: M.S.L.

IMPERIAL COUNTY PUBLIC WORKS DEPARTMENT
 GATEWAY OF THE AMERICAS (CSA)
 TRACT 941 - UNIT NO. 2
 STORM DRAIN AND SEWER
 CARR ROAD
 OWNER/PERMITTEE: PSE, LLC
 FILE NO.: 16555.08

H.E. JOB NO. 0344 DATE: 3/13/07

TRAFFIC SIGNING NOTES

- SIGNING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE SUBJECT TO THE COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT APPROVAL. ALL SIGNS SHALL CONFORM TO THE CALTRANS TRAFFIC MANUAL.
- SIGN POSTS
 - SHALL BE FOUR INCH (4" X 4") (10.2 CM X 10.2 CM) TREATED (UNPAINTED) WOOD*. TWO AND SEVEN-EIGHTHS INCHES (2 7/8") (7.3CM) (OD) ALUMINUM OR STEEL "U" CHANNEL (RECTANGULAR OR TUBULAR STEEL DESIGN WITH HOLE NOTCHES ARE PROHIBITED);
 - SHALL HAVE A SEVEN FEET (7') (2.13M) VERTICAL CLEARANCE ABOVE FINISH GRADE FOR ONE SIGN MOUNTING OR SIX FEET (6') (1.83M) FOR TWO SIGN MOUNTINGS;
 - SHALL HAVE A MAXIMUM OF TWO SIGNS (WITH DIFFERENT MEANINGS) ON EACH SIDE (MAXIMUM NUMBER OF SIGNS ON BOTH SIDES SHALL NOT EXCEED FOUR). WOOD OR ALUMINUM POSTS SHALL BE USED IF SIGNS ARE INSTALLED ON BOTH SIDES (PROVIDED SUFFICIENT HORIZONTAL AND VERTICAL CLEARANCES ARE AVAILABLE);
 - SHALL BE ANCHORED IN UNDISTURBED SOIL A MINIMUM OF 24 INCHES (24") (61 CM) BELOW FINISHED GRADE AND BACKFILLED WITH POST HOLE CONCRETE [IF IN SIDEWALK AREA, BACKFILL SHALL BE FOUR INCHES (4") (10.2 CM) OF CONCRETE ABOVE TWENTY INCHES (20") (50.8 CM) OF SAND];
 - LOCATED IN THE MEDIAN SHALL BE SET IN AN EIGHT INCHES BY TWENTY-FOUR INCHES (8" X 24") (20.3 CM X 61 CM) DEEP PVC SLEEVE AND BACKFILLED WITH SAND TO THE TOP OF THE SLEEVE;
 - SHALL BE NEW (OLD POSTS ARE PROHIBITED ON NEW SIGN INSTALLATIONS);
 - SHALL BE REJECTED IF BENT, DAMAGED, OR SPLINTERED;
 - LOCATIONS SHALL BE MARKED BY CONTRACTOR AND APPROVED BY THE PUBLIC WORKS DIRECTOR OR HIS ASSIGNEE PRIOR TO FINAL PLACEMENT;
- *WOOD POSTS USED FOR CLASS II OR III BARRICADES SHALL BE PAINTED WHITE.
- SIGNS
 - SHALL BE .080W 3M HIGH INTENSITY;
 - SHALL HAVE A MINIMUM OF TWELVE INCHES (12") (30.5 CM) HORIZONTAL CLEARANCE BEHIND THE CURB FACE;
 - THIRTY-SIX INCHES (36") (91.4 CM) WIDE SHALL BE STRAPPED ON THE BACK OF THE SIGN WITH SIGN STRAP HARDWARE;
 - LARGER THAN FORTY-EIGHT INCHES (48") (121.9 CM) WIDE SHALL BE SET ON TWO POSTS;
 - SHALL BE MOUNTED ON:
 - NEW OR EXISTING STREET LIGHT STANDARDS SHALL USE A THREE-FOURTHS INCH (3/4") (1.91 CM) "BAND IT" STEEL STRAPPING WITH FASTENERS;
 - WOOD POSTS SHALL USE THREE-EIGHTHS INCH BY THREE INCH (3/8" X 3") (0.95 CM X 7.62 CM) LAG BOLTS AND WASHERS (NAILS ARE NOT ACCEPTABLE);
 - ALUMINUM POSTS SHALL USE TWO AND SEVEN-EIGHTHS INCHES (2 7/8") (7.3 CM) POST CAPS FOR SINGLE SIGNS AND TWO AND SEVEN-EIGHTHS INCHES (2 7/8") (7.3 CM) CROSS SADDLE FOR TWO SIGNS;
 - STEEL "U" CHANNEL POSTS SHALL USE THREE-EIGHTHS INCH BY ONE AND ONE HALF INCH (3/8" X 1 1/2") CARRIAGE BOLTS, NUTS, AND WASHERS.
- THE CONTRACTOR SHALL NOTIFY THE COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT UPON COMPLETION OF SIGNING.
- EXISTING SIGNS SHALL BE SALVAGED AND DELIVERED TO THE PUBLIC WORKS DEPARTMENT.

TRAFFIC STRIPING NOTES

- ALL STRIPING AND PAVEMENT MARKINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO SECTIONS 84 AND 85 OF THE LATEST EDITION OF THE CALTRANS STANDARD SPECIFICATIONS AND THE APPROPRIATE DETAILS IN THE CALTRANS TRAFFIC MANUAL.
- FOR ALL DETAILS OR REFERENCES TO DETAILS SHOWN HEREON, REFER TO THE LATEST EDITION OF THE CALTRANS STANDARD PLANS A20A - A20D AND A24A - A24E.
- ALL LEGEND STENCILS SHALL MATCH THE "HAWKINS" STENCIL STANDARDS AS CURRENTLY USED BY THE COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT. THESE STENCILS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING: "STOP", "TURN ARROWS", "SPEEDS", "BIKE LANE", "SCHOOL", "R X R", "SIGNAL AHEAD", AND "STOP AHEAD".
- STOP LINES SHALL BE SEVEN FEET (7') (2.13 M) LONG AND FOUR INCHES (4") (10.2 CM) WIDE WITH A SEVENTEEN FOOT (17') LONG GAP CONFIGURATION FOR ALL APPLICATIONS (INCLUDING "NO PASSING ZONES", "TWO-WAY LEFT TURN LANES", "CENTERLINES", AND "LANE LINES - MULTILANE ROADWAYS").
- STRIPING ALIGNMENT AND LAYOUT, INCLUDING "CAT" TRACKING, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND IS SUBJECT TO THE COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT APPROVAL.
- PAINT SHALL BE APPLIED UNDER SUITABLE WEATHER CONDITIONS A PER THE PAINT MANUFACTURERS LABEL RECOMMENDATIONS FOR PAVEMENT AND AMBIENT TEMPERATURE REQUIREMENTS. PAINT SHALL NOT BE APPLIED IF RAIN IS FORECASTED WITHIN 24 HOURS.
- THINNING OF PAINT WILL NOT BE ALLOWED.
- SECTION 84-3.02 MATERIALS* OF THE LATEST EDITION OF THE CALTRANS SPECIFICATIONS IS AMENDED TO READ AS FOLLOWS:

PAINT FOR TRAFFIC STRIPES SHALL CONFORM TO THE FOLLOWING CALTRANS SPECIFICATIONS:

RAPID DRY WATERBORNE, WHITE AND YELLOW 8010-42L-30 OR 8010-61G-10 [LOW VOC (VOLATILE ORGANIC COMPOUND) AND LEAD BASED PAINTS ARE PROHIBITED].

GLASS BEADS SHALL CONFORM TO CALTRANS STANDARD SPECIFICATION NO. 8010-51J-22 (TYPE I MOISTURE PROOF).

GLASS BEADS SHALL BE APPLIED WHEN STRIPING TRAFFIC LINES OR PAINTING LEGENDS.

INFORMATION REGARDING TRAFFIC PAINT AND GLASS BEADS MAY BE OBTAINED FROM THE CALTRANS ENGINEERING SERVICE CENTER, 5900 FOLSOM BLVD. SACRAMENTO, CA 95819-4612; (916) 227-7000.
- ALL STRIPING SHALL INCLUDE RAISED PAVEMENT MARKERS (RPMs) PER THE APPROPRIATE CALTRANS TRAFFIC MANUAL DETAILS.

- RAISED PAVEMENT MARKERS (RPMs) SHALL BE CERAMIC OR ABS (ACRYLONITRILE - BUTADIENE - STYRENE) PLASTIC. APPROVED RPM TYPES ARE AS FOLLOWS:
 - TYPE A AND AY CERAMIC - FOUR INCH (4") (10.2 CM) DIAMETER
 - 1 - OR 2 - WAY REFLECTIVE ABS - FOUR INCHES BY FOUR INCHES (4" X 4") (10.2CM X 10.2 CM) SQUARE.

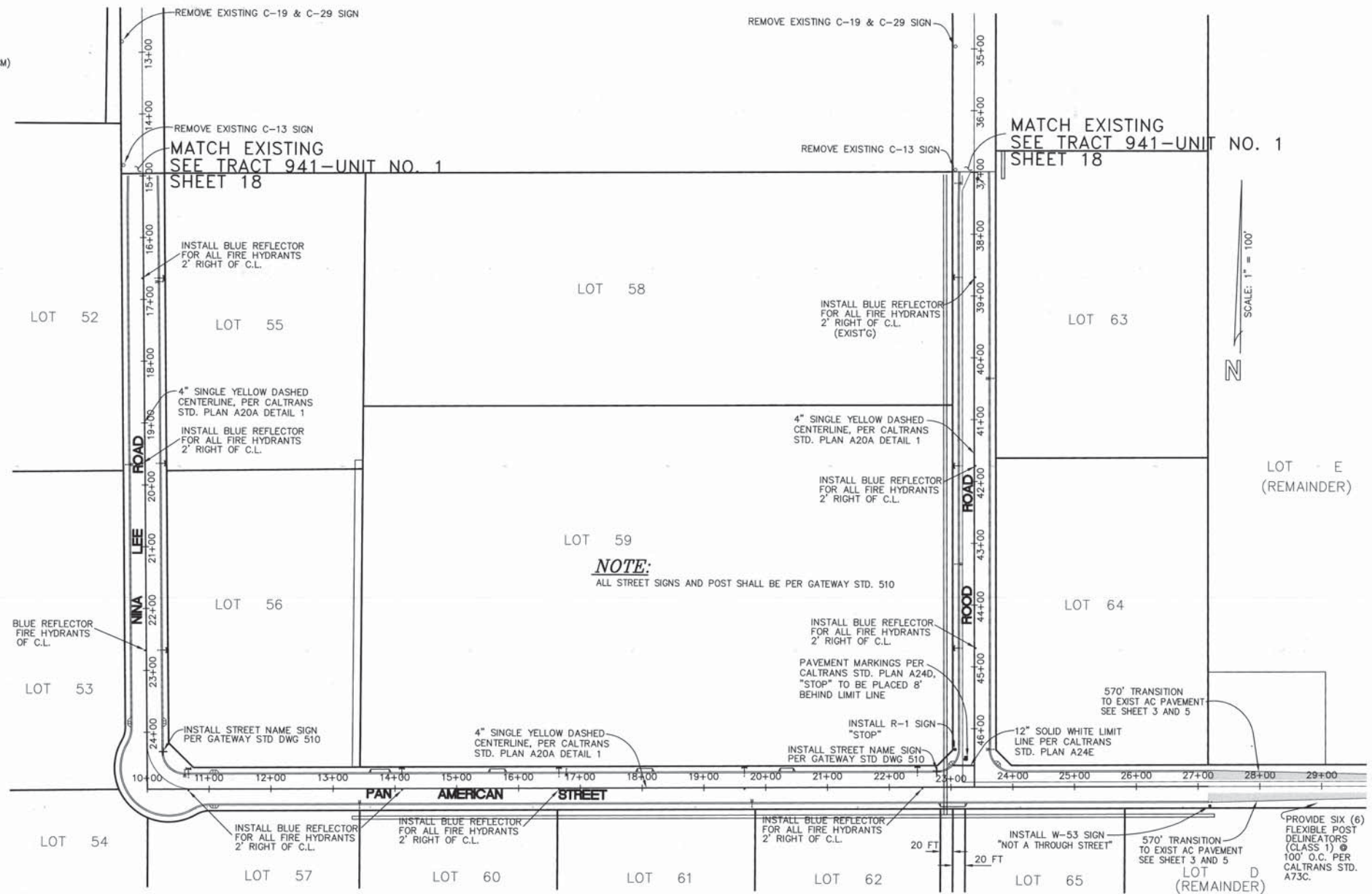
MINIMUM THICKNESS FOR BITUMEN OR EPOXY SHALL BE 15 MILLS.

RPMs SHALL BE FIXED WITH MACHINE APPLIED HOT BITUMEN OR STANDARD SET EPOXY (PART A AND B).
- THE CONTRACTOR SHALL REMOVE ALL CONFLICTING PAINTED LINES, MARKINGS AND PAVEMENT LEGENDS BY SANDBLASTING. SANDBLASTING DEBRIS SHALL BE REMOVED BY THE END OF EACH WORKING DAY. APPLICATION OF ASPHALTIC COATING TO COVER DESIGNATED LINES TO BE REMOVED IS PROHIBITED.
- CONTRACTOR SHALL NOTIFY THE COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT UPON COMPLETION OF STRIPING.
- THERMOPLASTIC STRIPING OR PAVEMENT LEGENDS SHALL NOT BE USED.
- BLUE MARKERS SHALL BE INSTALLED ON ROAD CENTERLINE TO INDICATE PROPOSED FIRE HYDRANT.

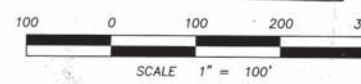


STRIPING AND SIGNAGE

NOTE:
MATCH ALL EXISTING IMPROVEMENTS WITHIN COUNTY RIGHT-OF-WAY AS PER GATEWAY OF THE AMERICAS IMPROVEMENT PLANS FOR TRACT 941 UNIT NO. 1.



AS Built	7/3/07	Complete
Inspector	3/12/07	
Approved	7/3/07	
Director of Public Works Imperial County		



REVISIONS			
No.	Description	Approved By	Date

HALE ENGINEERING

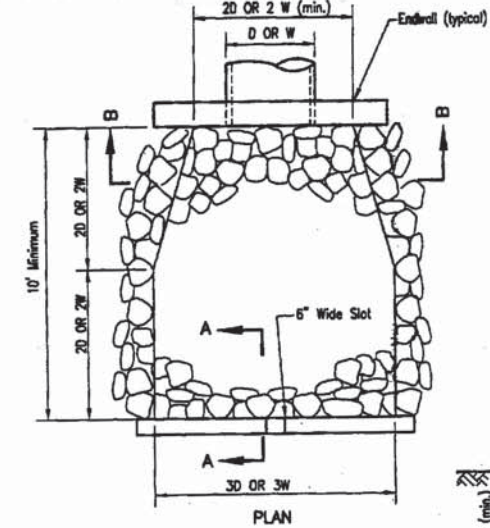
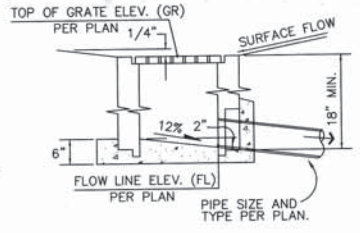
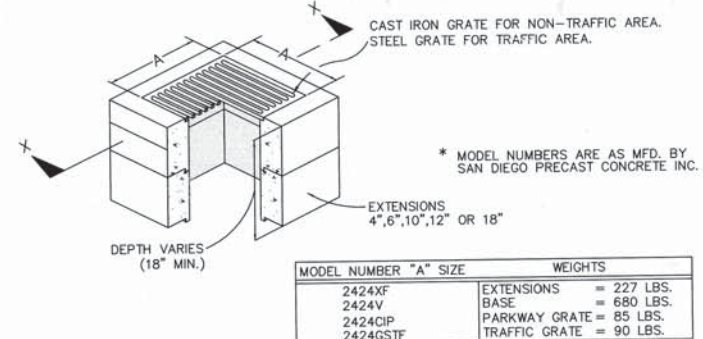
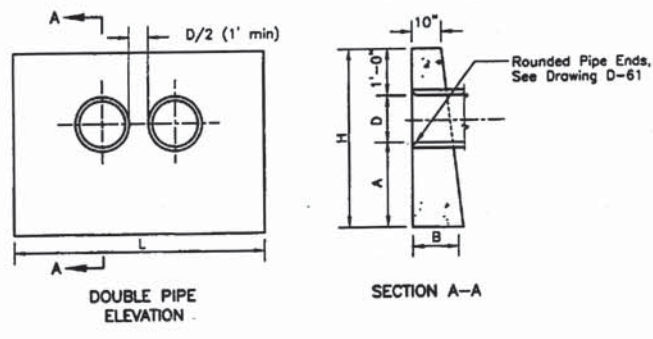
CIVIL ENGINEERING SURVEYING LAND PLANNING

7910 CONVOY COURT
SAN DIEGO, CA 92111

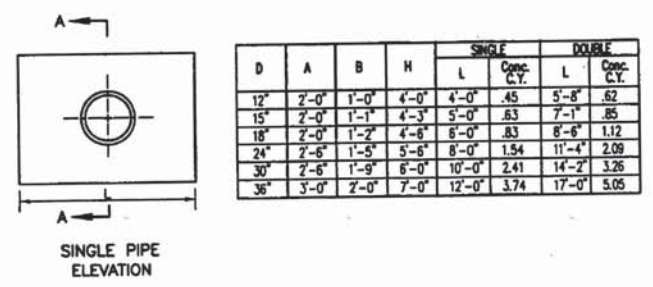
(658) 715-1420
(658) 715-1424 FAX

ENGINEER OF RECORD		COUNTY APPROVED		BENCH MARK		IMPERIAL COUNTY PUBLIC WORKS DEPARTMENT	
PLANS PREPARED UNDER THE SUPERVISION OF				DESCRIPTION: USGS STATION NAME "DULL 2"		GATEWAY OF THE AMERICAS (CSA)	
BY:				LOCATION: NGVD29 AND CCS 83		TRACT 941 - UNIT NO. 2	
R.C.E. NO.: 58003		DATE: 7-3-07		ELEVATION: 42.911		STRIPING AND SIGNAGE	
EXPIRES: 08-30-08		DIRECTOR OF PUBLIC WORKS		DATUM: M.S.L.		OWNER/PERMITTEE: PSC, LLC	

DATE: 3/13/07
H.E. JOB NO. 0344

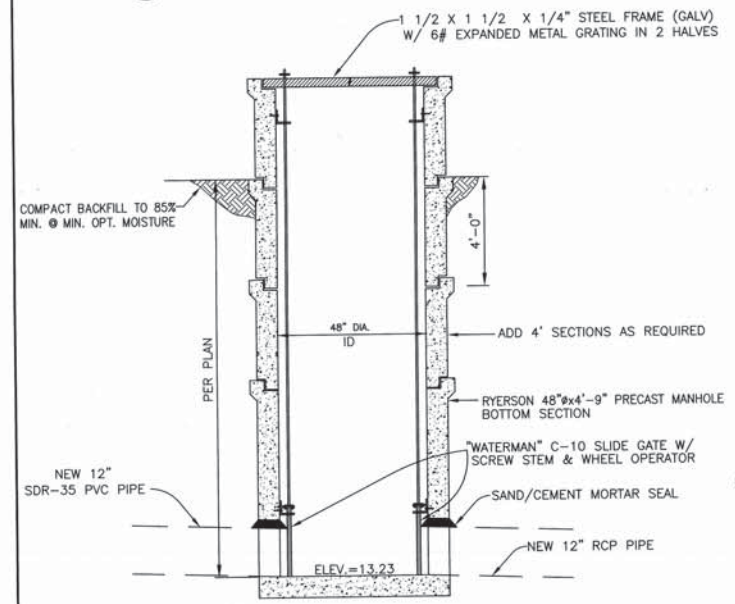


D = Pipe Diameter
W = Bottom Width of Channel



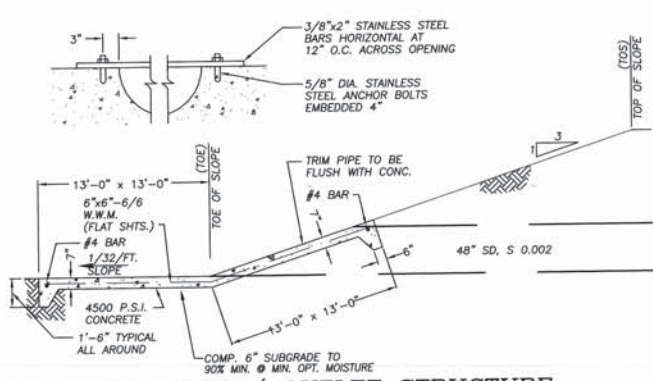
- NOTES**
- Concrete shall be 560-C-3250.
 - Exposed corners shall be chamfered 3/4".

COUNTY OF SAN DIEGO STD. DWG D-32
STRAIGHT HEADWALL DETAIL
NO SCALE

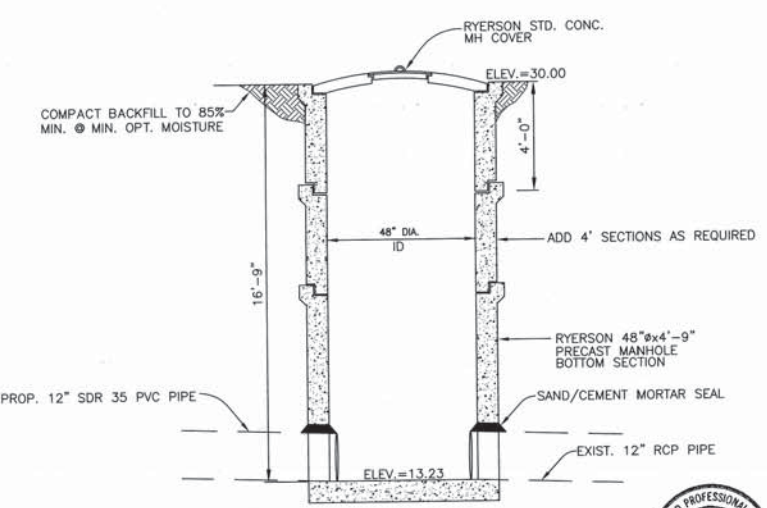


RAW WATER PIPELINE
48" DIA. RCP MANHOLE
NO SCALE

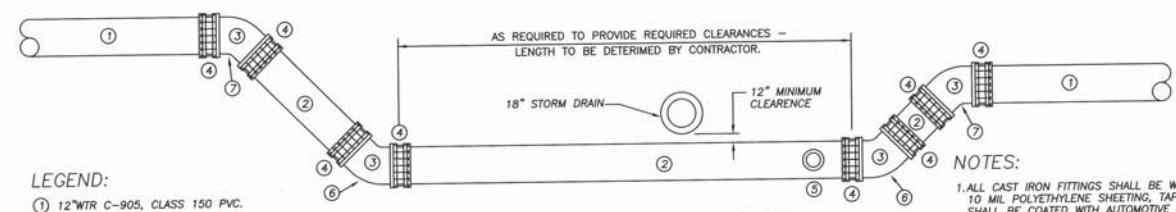
24"x24" DRAIN BOX
NO SCALE



RET. BASIN INLET / OUTLET STRUCTURE
NO SCALE



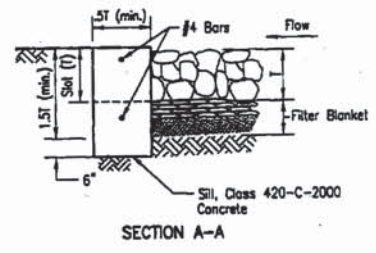
48" DIA. RCP MANHOLE
NO SCALE



WATER AND STORM DRAIN CROSSING DETAIL
NO SCALE

- NOTES**
- Plans shall specify:
A) Rock Class and thickness (T).
B) Filter material, number of layers and thickness.
 - Rip rap shall be either quarry stone or broken concrete (if shown on the plans.) Cobbles are not acceptable.
 - Rip rap shall be placed over filter blanket which may be either granular material or filter fabric.
 - See Regional Supplement Amendments for selection of rip rap and filter blanket.
 - Rip rap energy dissipators shall be designated as either Type 1 or Type 2. Type 1 shall be with concrete sill; Type 2 shall be without sill.

RIP RAP DETAIL
NO SCALE



REVISIONS		
No.	Description	Approved By Date

HALE ENGINEERING
CIVIL ENGINEERING SURVEYING LAND PLANNING

7910 CONVOY COURT
SAN DIEGO, CA 92111

(858) 715-1420
(858) 715-1424 FAX

ENGINEER OF RECORD
PLANS PREPARED UNDER THE SUPERVISION OF

BY: *John A. Hayes* DATE: 4-24-07
JOHN A. HAYES
R.C.E. NO.: 58003 EXPIRES: 08-30-08

COUNTY APPROVED

BY: *William S. Brunet* DATE: 7-3-07
WILLIAM S. BRUNET, PE
DIRECTOR OF PUBLIC WORKS

BENCH MARK

DESCRIPTION: USGS STATION NAME "DULL 2"

LOCATION: NGVD29 AND CCS 83
N-182607263, E-6827670.30

ELEVATION: 42.911 DATUM: M.S.L.

AS Built 7/3/07 Complete

Inspector 3/12/07

Approved 7/3/07
William S. Brunet

Director of Public Works

IMPERIAL COUNTY PUBLIC WORKS DEPARTMENT

GATEWAY OF THE AMERICAS (CSA)

GRADING, STREET IMPROVEMENT, WATER, SEWER,
STORMDRAIN, STRIPING & SIGNAGE PLANS

DETAILS

OWNER/PERMITTEE: P&E, LLC FILE NO.:

SHEET: 12 OF 13

STORM WATER POLLUTION PREVENTION PLAN

EROSION CONTROL NOTES

1. ALL BUILDING PADS ARE TO BE DIKES AND THE DIKES MAINTAINED TO PREVENT WATER FROM FLOWING FROM THE PAD UNTIL THE STREETS AND DRIVEWAYS ARE PAVED AND WATER CAN FLOW FROM THE PADS WITHOUT CAUSING EROSION, OR CONSTRUCT DRAINAGE FACILITIES TO THE SATISFACTION OF THE COUNTY DEPARTMENT OF PUBLIC WORKS THAT WILL ALLOW WATER TO DRAIN FROM THE PAD WITHOUT CAUSING EROSION.
2. TOPS OF ALL SLOPES ARE TO BE DIKED OR TRENCHED TO PREVENT WATER FROM FLOWING OVER THE CREST OF SLOPES.
3. MANUFACTURED SLOPES AND PADS SHALL BE ROUNDED VERTICALLY AND HORIZONTALLY AS APPROPRIATE TO BLEND WITH THE SURROUNDING TOPOGRAPHY.
4. AS SOON AS CUTS OR EMBANKMENTS ARE COMPLETED, BUT NOT LATER THAN OCTOBER 1, ALL CUT AND FILL SLOPES SHALL BE STABILIZED WITH A HYDROMULCH MIXTURE OR AN EQUAL TREATMENT APPROVED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS. BETWEEN OCTOBER 1 AND APRIL 30, APPROVED SLOPE PROTECTION MEASURES SHALL PROCEED IMMEDIATELY BEHIND THE EXPOSURE OF CUT SLOPES AND/OR THE CREATION ON EMBANKMENT SLOPES.
5. CATCH BASINS, DESILTING BASINS AND STORM DRAIN SYSTEMS SHALL BE INSTALLED TO THE SATISFACTION OF THE COUNTY DEPARTMENT OF PUBLIC WORKS.
6. GRAVEL BAG CHECK DAMS ARE TO BE PLACED IN A MANNER APPROVED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS IN UNPAVED STREET WITH GRADIENTS IN EXCESS OF 2% AND ON OR IN OTHER GRADED OR EXCAVATED AREAS AS REQUIRED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS.
7. THE DEVELOPER TO MAINTAIN THE PLANTING AND EROSION CONTROL MEASURES DESCRIBED ABOVE UNTIL RELIEVED OF SAME BY THE COUNTY DEPARTMENT OF PUBLIC WORKS. THE DEVELOPER TO REMOVE ALL SOIL INTERCEPTED BY THE GRAVEL BAGS, CATCH BASINS, AND DESILTING BASINS AND KEEP THESE FACILITIES CLEAN AND FREE OF SILT AND SAND AND SHALL REPAIR ANY ERODED SLOPES AS DIRECTED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS.

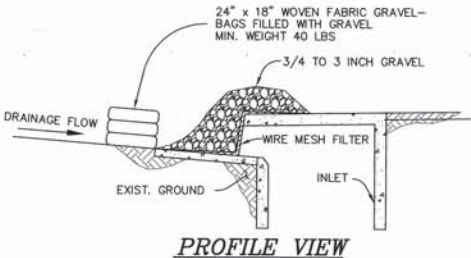
SILTATION AND SEDIMENT CONTROL NOTES

1. THE SEDIMENT BASINS SHALL BE PROVIDED AT THE LOWER END OF EVERY DRAINAGE AREA PRODUCING SEDIMENT RUNOFF. THE BASINS SHALL BE MAINTAINED AND LEANED TO DESIGN COUNTOURS AFTER EVERY RUNOFF-PRODUCING STORM. THE BASINS SHOULD BE SEMI-PERMANENT STRUCTURES THAT WOULD REMAIN UNTIL SOIL STABILIZING VEGETATION HAS BECOME WELL ESTABLISHED ON ALL ERODIBLE SLOPES.
2. SEDIMENTATION BASINS MAY NOT BE REMOVED OR MADE INOPERATIVE WITHOUT PRIOR APPROVAL ON THE COUNTY ENGINEER.
3. UTILITY TRENCHES THAT ARE CUT THROUGH BASIN DIKES OR BASIN INLET DIKES SHALL BE PLUGGED WITH GRAVEL BAGS FROM TOP OF PIPE TO TOP OF DIKE.
4. ALL UTILITY TRENCHES SHALL BE BLOCKED AT THE PRESCRIBED INTERVALS WITH A DOUBLE ROW OF GRAVEL BAGS WITH A TOP ELEVATION THAT IS TWO GRAVEL BAGS BELOW THE GRADED SURFACE OF THE STREET. GRAVEL BAGS ARE TO BE PLACED WITH LAPPED COURSES. THE INTERVALS PRESCRIBED BETWEEN GRAVEL BAG BLOCKING SHALL DEPEND ON THE SLOPE OF THE GROUND SURFACE BUT SHALL NOT EXCEED THE FOLLOWING:

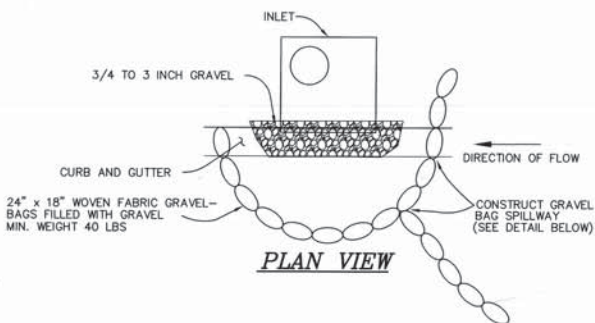
GRADE OF STREET	INTERVAL
LESS THAN 2%	200 FEET MAXIMUM
2% TO 4%	100 FEET
4% TO 10%	50 FEET
OVER 10%	25 FEET

EMERGENCY CONTACT INFORMATION

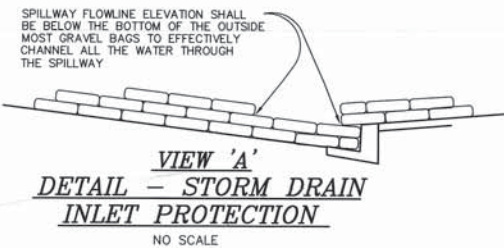
NAME: NATHAN R. STANLEY
TITLE: PROJECT SUPERINTENDENT
COMPANY: HAZARD CONSTRUCTION
ADDRESS: 6465 MARINDUSTRIY PLACE
SAN DIEGO, CA, 92192
CELL: (858) 518-5416



PROFILE VIEW

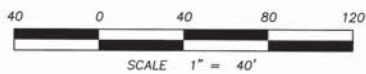
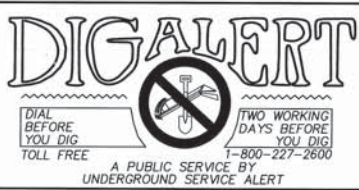
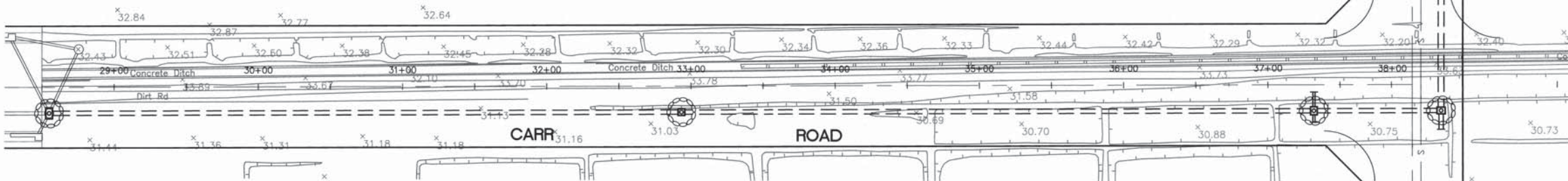


PLAN VIEW



VIEW 'A'
DETAIL - STORM DRAIN
INLET PROTECTION

NO SCALE



AS Built	7/3/07	Complete
Inspector	3/12/07	
Approved	7/3/07	
<i>William S. Brunet</i>		
Director of Public Works Imperial County		

REVISIONS			
No.	Description	Approved By	Date

HALE ENGINEERING
CIVIL ENGINEERING SURVEYING LAND PLANNING
7910 CONVOY COURT
SAN DIEGO, CA 92111
(858) 715-1430
(858) 715-1434 FAX

ENGINEER OF RECORD PLANS PREPARED UNDER THE SUPERVISION OF BY: <i>John A. Hayes</i> JOHN A. HAYES, P.E. R.C.E. NO.: 58003 DATE: 4-29-07 EXPIRES: 08-30-08	COUNTY APPROVED BY: <i>William S. Brunet</i> WILLIAM S. BRUNET, PE DIRECTOR OF PUBLIC WORKS DATE: 7-2-07	BENCH MARK DESCRIPTION: USGS STATION NAME "DULL 2" LOCATION: NGVD29 AND CCS 83 N-182607263, E-6827670.30 ELEVATION: 42.911 DATUM: M.S.L.	IMPERIAL COUNTY PUBLIC WORKS DEPARTMENT GATEWAY OF THE AMERICAS (CSA) TRACT 941 - UNIT NO. 2 STORM WATER POLLUTION PREVENTION PLAN PAN AMERICAN ST & CARR RD SHEET: 13 OF 13 FILE NO: 18555.08
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DATE: 3/13/07
H.E. JOB NO. 0344