ADDENDUM #1
RFQ 201-17
MASS GRADING AND SITE UTILITIES
NORTH EDUCATION CENTER PROJECT

As per the directions in the RFQ package, the following questions were submitted for clarification in accordance with section III: Information for Respondents of the RFQ:

QUESTION (1): The CAD files do not match the mass grading plans. Please advise. (7/24/17)

RESPONSE: The website link https://bbcus.egnyte.com/fl/FNtHAZP5y3 has been updated with the most recent grading plan, "Document 013000R1 Compiled Mass Grading Submittal 7.18.17"

QUESTION (2): Is it possible to get a CAD file with the correct existing topo and the correct design? The file that was provided will need to be modified for it to work correctly. (7/24/17)

RESPONSE: The website link https://bbcus.egnyte.com/fl/FNtHAZP5y3 has been updated with additional CAD file "Document 01310 Civil Existing Topo 16249-TOPO-MAI.dwg"

QUESTION (3): Is this project still a non PLA? (7/24/17)

RESPONSE: The project will NOT have a Project Labor Agreement

QUESTION (4): additional information from Construction Manager (7/26/17)

RESPONSE: The website link https://bbcus.egnyte.com/fl/FNtHAZP5y3 has been updated with a plan view "RFQ 201-17 Add1 Jobwalk 7.28.17" showing the location of the non-mandatory jobwalk on Friday July 28, 2017 at 10AM. The walk will start at the curb cut in Horse Ranch Creek Road toward the middle of the property.

The information above is added to RFQ 201-17
Date issued: July 26, 2017

Ron E. Ballesteros-Perez,
Assistant Superintendent, Vice President
Finance and Administrative Services
Palomar Community College District

PALOMAR COLLEGE

MASS GRADING PLAN

35090 HORSE RANCH CREEK ROAD
FALLBROOK, CA 92028

HMC Architects
3546 Concours Street / Ontario, CA 91764
T 909 989 9979 / www.hmcarchitects.com

PROJECT TEAM

OWNER
PALOMAR COLLEGE
35090 HORSE RANCH CREEK ROAD,
FALLBROOK, CA 92028
PHONE (760)-744-1150
FAX (760)-761-3506
DENNIS ASTL

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HMC ARCHITECTS
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FAX (909) 483-1400
BRAD GLASSICK

CIVIL
MASSON & ASSOC.
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ESCONDIDO, CA 92025
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DAN MASSON

SHEET INDEX

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GENERAL NOTES

1. CONSTRUCTION DOCUMENTS DESCRIBE THE PRODUCTS, SYSTEMS, QUANTITIES, CONFIGURATION, AND PERFORMANCE SPECIFICATIONS THAT DELIVER THE OVERALL DESIGN INTENT OF THE PROJECT.
2. THE CONSTRUCTION DOCUMENT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY BOTH.
3. PERFORMANCE BY THE CONSTRUCTION TEAM SHALL BE CONSISTENT WITH THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS AS NECESSARY TO DELIVER THE INDICATED RESULTS OF THE DESIGN INTENT.
4. VERIFY ALL DIMENSIONS, LOCATIONS OF EXISTING UTILITIES, AND CONDITIONS ON THE JOB SITE PRIOR TO THE START OF WORK OR PORTIONS OF THE WORK. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE ACTUAL FIELD CONDITIONS AND THE CONSTRUCTION DOCUMENTS. EXISTING CONDITIONS ARE INDICATED AS A RESULT OF FIELD OBSERVATIONS, INFORMATION SHOWN ON AVAILABLE DOCUMENTS AND FIELD CONDITIONS AT THE TIME OF PREPARATION.
5. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL GOVERNING CODES, ORDINANCES, REGULATIONS AND LAWS.
6. THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS AND SCAFFOLDING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
7. WHERE ANY CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF LAWS, CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN.
8. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS.
9. DETAILS MARKED 'TYPICAL' SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY NOTED OTHERWISE.
10. ENACT ALL MEASURES TO PROTECT AND SAFEGUARD ALL EXISTING ELEMENTS TO REMAIN FROM BEING DAMAGED. REPLACE OR REPAIR EXISTING ELEMENTS DAMAGED BY THE EXECUTION OF THIS CONTRACT TO EQUAL OR BETTER CONDITION.
11. PRIOR TO THE START OF WORK THE CONTRACTOR SHALL COORDINATE BETWEEN THE REQUIREMENTS OF ALL DISCIPLINES HEREIN AND BETWEEN THE REQUIREMENTS OF ALL DRAWINGS AND SPECIFICATIONS IN ORDER THAT ALL ITEMS SATISFACTORILY RELATE TO ONE ANOTHER. NOTIFY ARCHITECT IMMEDIATELY REGARDING ANY ITEMS THAT CANNOT BE COORDINATED.
12. CONTRACTOR SHALL EXCERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, CONDUIT, ETC. AND TO PREVENT HAZARD TO PERSONNEL AND/OR TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
14. CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE EXISTING OR NEW STRUCTURAL ELEMENTS SHALL NOT TO BE STARTED UNTIL THE DETAILS HAVE BEEN REVIEWED AND APPROVED BY THE ARCHITECT, AND STRUCTURAL ENGINEER OF RECORD AND DSA.

GENERAL DEMOLITION NOTES

1. DEMOLITION PLANS INDICATE GENERAL AREAS OF DEMOLITION. THEY DO NOT SHOW ALL DEMOLITION DETAIL REQUIREMENTS. ALL DEMOLITION NECESSARY FOR COMPLETION OF NEW CONSTRUCTION IS A PART OF THIS CONTRACT.
2. NOTE THAT ALL DEMOLITION SHALL COMPLY WITH CHAPTER 14 OF THE CALIFORNIA FIRE CODE AND CHAPTER 34 OF THE CALIFORNIA BUILDING CODE.
3. THE CONTRACTOR SHALL VISIT THE SITE AND CAREFULLY EXAMINE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND THE NATURE OF THE SCOPE OF THE WORK AND DIFFICULTIES THAT ATTEND ITS EXECUTION.
4. CONTRACTOR SHALL PROVIDE TEMOPORARY SHORING AND BRACING AND MAKE SAFE ALL FLOORS, ROOFS, WALLS, AND ADJACENT PROPERTY, AS PROJECT CONDITIONS REQUIRE. SHORING OR BRACING SHOULD BE PROVIDED TO SUPPORT LOADS AS MAY BE IMPOSED ON THE STRUCTURE OR ADJACENT STRUCTURES DURING CONSTRUCTION. ALL BRACING OR SHORING SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL REMAIN IN PLACE AS LONG AS REQUIRED TO MAINTAIN SAFETY. PATCH AND REPAIR EXISTING CONDITIONS DAMAGED DURING THE COURSE OF CONSTRUCTION.
5. PROVIDE TEMPORARY BARRICADES, SUPPORTS, AND OTHER FORMS OF PROTECTION AS REQUIRED TO PROTECT THE OWNER'S PROPERTY, PERSONNEL, AND THE GENERAL PUBLIC FROM INJURY. PROVIDE INTERIOR SHORING, BRACING, OR SUPPORT TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF STRUCTURAL ELEMENTS, ITEMS TO BE DEMOLISHED, ADJACENT FACILITIES, OR ANY ITEM TO REMAIN. CEASE OPERATION AND NOTIFY THE OWNER IMMEDIATELY IF THE SAFETY OF STRUCTURE APPEARS TO BE ENDANGERED. TAKE PRECAUTIONS TO SUPPORT STRUCTURE UNTIL DETERMINATION IS MADE FOR CONTINUING OPERATIONS.
6. THE CONTRACTOR SHALL VERIFY ALL INFORMATION PERTAINING TO EXISTING CONDITIONS BY ACTUAL CONDITIONS AND THOSE SHOWN IN THE SITE. ALL DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND THOSE SHOWN IN THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY FOR HIS EVALUATION BEFORE THE AFFECTED CONSTRUCTION IS FABRICATED OR PUT IN PLACE.
7. EXECUTE THE WORK IN A CAREFUL, ORDERLY, AND SYSTEMATIC MANNER, WITH THE LEAST POSSIBLE DISTURBANCE TO THE OCCUPANTS OF SURROUNDING AND ADJACENT BUILDINGS. USE SUCH METHODS AS REQUIRED TO COMPLETE THE WORK INDICATED WITH A MINIMUM OF DISTURBANCE TO ADJOINING CONSTRUCTION, STRUCTURAL ELEMENTS, AND ALL CONSTRUCTION TO REMAIN IN PLACE.
8. PROVIDE TEMPORARY WATERTIGHT AND SECURE ENCLOSURES AT ANY NEW OR EXISTING OPENING AT ROOF OR EXTERIOR WALLS.
9. REMOVE DEBRIS AS THE WORK PROGRESSES, MAINTAIN THE PREMISES IN A NEAT AND CLEAN CONDITION. COORDINATE HANDLING AND REMOVAL OF WASTE MATERIALS WITH THE OWNER.
10. ALL DEMOLITION AND REMOVAL SHALL BE BROUGHT TO A NATURAL STOPPING POINT. ANY MATERIAL REMOVED BY MISTAKE OR IN EXCESS OF REQUIREMENTS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. PROTRUDING MATERIALS SHALL BE CUT BACK 2" BEHIND WALL, FLOOR, OR CEILING SURFACES.
11. THE CONTRACTOR SHALL VERIFY LOCATIONS OF, AND PROTECT ALL SURFACE AND SUBSURFACE UTILITIES.
12. BEFORE STARTING ANY WORK RELATING TO EXISTING UTILITIES (ELEC, SANITARY, WATER, HEAT, GAS, ETC.) THAT WILL TEMPORARILY DISCONTINUE OR DISRUPT SERVICESTO THE EXISTING BUILDING, NOTIFY THE OWNER SEVENTY-TWO (72) HOURS IN ADVANCE AND OBTAIN APPROVAL PRIOR TO BEGINNING WORK.

D.S.A. GENERAL NOTES

1. ALL WORK SHALL CONFORM TO 2016 EDITION TITLE 24, CALIFORNIA CODE OR REGULATION (CCR).

2. THE SCOPE OF WORK INDICATED ON SHEET G0.20

3. FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUALL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA. LIST DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT.

4. CHANGE TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24 CCR.

5. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.

6. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

7. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR)

8. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

SCOPE OF WORK

WORK INCLUDED IN THE CONTRACT:

MASS GRADING AND EXCAVATION OF A MINIMUM OF TOP 5 FEET OF EARTH FOR ALL BUILDABLE AREAS CONTAINED WITHIN 83 ACRE SITE.

APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2017*

2016 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*
2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2015 INTERNATIONAL BUILDING CODE, VOL. 1 & 2 AND 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2014 NATIONAL ELECTRICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2015 IAPMO UNIFORM MECHANICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2015 IAPMO UNIFORM PLUMBING CODE AND 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2016 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2015 INTERNATIONAL FIRE CODE AND 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2015 INTERNATIONAL EXISTING BUILDING CODE AND 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2016 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2013 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS

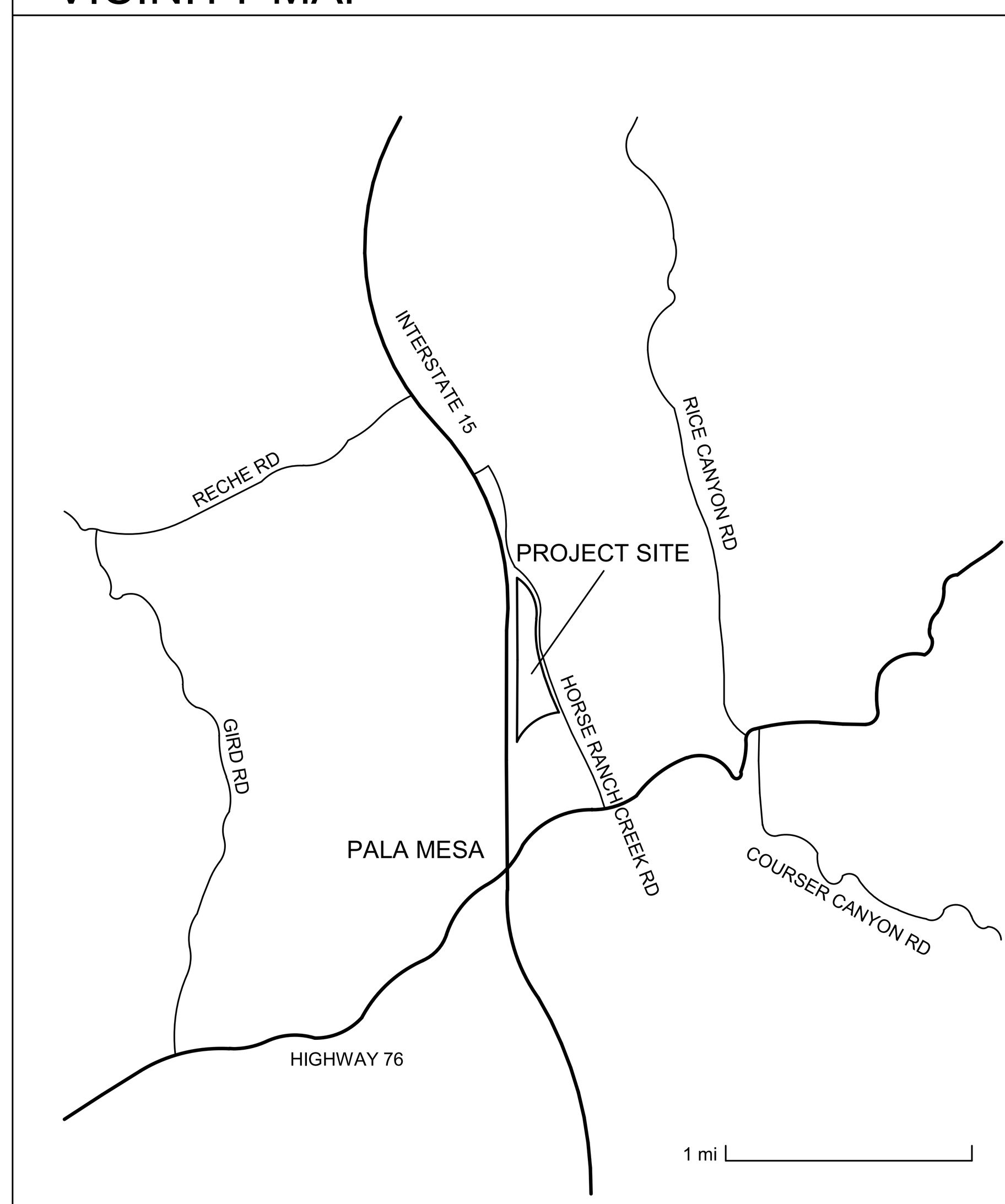
PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13	STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED)	2016 EDITION
NFPA 14	STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS	2013 EDITION
NFPA 17	STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS	2013 EDITION
NFPA 17A	STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS	2013 EDITION
NFPA 20	STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION	2016 EDITION
NFPA 22	STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION	2013 EDITION
NFPA 24	STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES	2016 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED)	2016 EDITION
NFPA 80	STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES	2016 EDITION
NFPA 2001	STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2015 EDITION
UL 300	STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT	2005 (R2010)
UL 464	AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALIING SYSTEMS, INCLUDING ACCESSORIES	2003 EDITION
UL 521	STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 EDITION
UL 1971	STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED	2002 EDITION
ICC 300	STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS	2012 EDITION

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2016 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

SEE CALIFORNIA BUILDING CODE, CHAPTER 35, FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

VICINITY MAP



Consultant Seal

Agency Approval FILE NO. 37-61
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 04-116312
ACS______ FLS______ SSS______
DATE __________

Project Title
PALOMAR COLLEGE
Learning for Success
MASS GRADING PLAN
Palomar College
35090 HORSE RANCH CREEK ROAD
FALLBROOK, CA 92028

No.	Description	Date
	DSA APPROVAL BACKCHECK	7/19/2017
	DSA SUBMITTAL	5/22/2017

Drawing Title:
TITLE SHEET

Architect's Seal
LICENSED ARCHITECT
BRADLEY E. GLASSICK
No. C-32437
REN. 02-28-19
STATE OF CALIFORNIA

Designed: Designer	Project No. Project Number
Drawn: Author	Scale:
QAQC Checker	Drawing No.
Date: IssueDate	A0.0

\\Ont-e2\projects\Projects\5015 Palomar Comm College Dist\019-100 North ED Center Mass Grading\06 BIM CAD\03 REVIT\Titleblock_detached.rvt

PLEASE RECYCLE

Project Status

GENERAL NOTES AND REQUIREMENTS

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 IS 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. A CONSTRUCTION, EXCAVATION OR ENCROACHMENT PERMIT FROM THE DEPARTMENT OF PUBLIC WORKS WILL BE REQUIRED FOR ANY WORK IN THE COUNTY RIGHT-OF-WAY.
5. ALL SLOPES OVER THREE FEET IN HEIGHT WILL BE PLANTED IN ACCORDANCE WITH SAN DIEGO COUNTY SPECIFICATIONS.
6. 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: PHONE NUMBER:

   SAN DIEGO GAS AND ELECTRIC: (858)636-3980
   AT&T TELEPHONE: (858)886-1901
   CATV (TIME WARNER CABLE): (858)635-8402
   SEWER (RAINBOW MUNICIPAL WATER DISTRICT): (760)728-1125
   WATER (RAINBOW MUNICIPAL WATER DISTRICT): (760)728-1125

7. A SOILS REPORT MAY BE REQUIRED PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.
8. APPROVAL OF THESE PLANS BY THE DEPARTMENT OF THE STATE ARCHITECT (DSA) DOES NOT AUTHORIZE ANY WORK OR GRADING TO BE PERFORMED UNTIL THE PROPERTY OWNER'S PERMISSION HAS BEEN OBTAINED.
9. ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE OR RUNNING OF TRUCKS, EARTHMOVING EQUIPMENT, CONSTRUCTION EQUIPMENT AND ANY OTHER ASSOCIATED GRADING EQUIPMENT SHALL BE LIMITED TO THE PERIOD BETWEEN 7:00AM AND 6.00PM EACH DAY, MONDAY THROUGH SATURDAY, AND NO EARTHMOVING OR GRADING OPERATIONS SHALL BE CONDUCTED ON THE PREMISES ON SUNDAYS OR HOLIDAYS.
10. ALL MAJOR SLOPES SHALL BE ROUNDED INTO EXISTING TERRAIN TO PRODUCE A CONTOURED TRANSITION FROM CUT OR FILL FACES TO NATURAL GROUND AND ABUTTING CUT OR FILL SURFACES.
11. 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 ADJOINING PUBLIC STREET, SIDEWALK, ALLEY, FUNCTION OF ANY SEWAGE DISPOSAL SYSTEM, OR ANY OTHER PUBLIC OR PRIVATE PROPERTY WITHOUT SUPPORTING AND PROTECTING SUCH PROPERTY FROM SETTLING, CRACKING, EROSION, SILTING, SCOUR OR OTHER DAMAGE WHICH MIGHT RESULT FROM THE GRADING DESCRIBED ON THIS PLAN. THE COUNTY WILL HOLD THE PERMITTEE RESPONSIBLE FOR CORRECTION OF NON-DEDICATED IMPROVEMENTS WHICH DAMAGE ADJACENT PROPERTY.
12. SLOPE RATIOS: CUT--2:1, FILL--2:1

STORM WATER MANAGEMENT NOTES

1. DURING THE RAINY SEASON THE AMOUNT OF EXPOSED SOIL ALLOWED AT ONE TIME SHALL NOT EXCEED THAT WHICH CAN BE ADEQUATELY PROTECTED BY THE PROPERTY OWNER IN THE EVENT OF A RAINSTORM. 125% SHALL BE RETAINED ON THE JOB SITE IN A MANNER THAT ALLOWS FULL DEPLOYMENT AND COMPLETE INSTALLATION IN 48 HOURS OR LESS OF A FORECAST RAIN.
2. ANY DISTURBED AREA THAT IS NOT ACTIVELY GRADED FOR 15 DAYS MUST BE FULLY PROTECTED FROM EROSION. UNTIL ADEQUATE LONGTERM PROTECTIONS ARE INSTALLED, THE DISTURBED AREA SHALL BE INCLUDED WHEN CALCULATING THE ACTIVE DISTURBANCE AREA. ALL EROSION CONTROL MEASURES SHALL REMAIN INSTALLED AND MAINTAINED DURING ANY INACTIVE PERIOD.
3. THE PROPERTY OWNER IS OBLIGATED TO INSURE COMPLIANCE WITH ALL APPLICABLE STORM WATER REGULATIONS AT ALL TIMES. THE B.M.P.'S (BEST MANAGEMENT PRACTICES) THAT HAVE BEEN INCORPORATED INTO THIS PLAN SHALL BE IMPLEMENTED AND MAINTAINED TO EFFECTIVELY PREVENT THE POTENTIALLY NEGATIVE IMPACTS OF THIS PROJECT'S CONSTRUCTION ACTIVITIES ON STORM WATER QUALITY. THE MAINTENANCE OF THE B.M.P.'S IS THE PERMITTEE'S RESPONSIBILITY, AND FAILURE TO PROPERLY INSTALL OR MAINTAIN THE B.M.P.'S MAY RESULT IN ENFORCEMENT ACTION. IF INSTALLED B.M.P.'S FAIL, THEY MUST BE REPAIRED OR REPLACED WITH AN ACCEPTABLE ALTERNATE WITHIN 24 HOURS, OR AS SOON AS SAFE TO DO SO.
4. A NOTICE OF INTENT (NOI) HAS BEEN, OR WILL BE FILED WITH THE STATE WATER RESOURCES CONTROL BOARD (SWRCB) AND THAT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN OR WILL BE PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF CALIFORNIA GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY (PERMIT NO. CAS000002) FOR ALL OPERATIONS ASSOCIATED WITH THESE PLANS. THE NOI NUMBER ASSIGNED BY SWRCB FOR THIS PROJECT IS [WDID#]. THE PERMITTEE SHALL KEEP A COPY OF THE SWPPP ON SITE AND AVAILABLE FOR REVIEW BY COUNTY

EMERGENCY EROSION CONTROL MEASURES NOTES

1. ALL BUILDING PADS TO BE DIKED 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 TO BE DIKED OR TRENCHED TO PREVENT WATER FROM FLOWING OVER THE CREST OF THE 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 15, APPROVED SLOPE PROTECTION MEASURES SHALL PROCEED IMMEDIATELY BEHIND THE EXPOSURE OF CUT SLOPES AND/OR THE CREATION OF EMBANKMENT SLOPES.
5. CATCH BASINS, DESILTING BASINS AND STORM DRAIN SYSTEMS SHALL BE INSTALLED TO THE SATISFACTION OF THE REGIONAL WATER QUALITY CONTROL BOARD..
6. GRAVEL BAG CHECK DAMS TO BE PLACED IN UNPAVED STREETS WITH GRADIENTS IN EXCESS OF 2% AND ON OR IN OTHER GRADED OR EXCAVATED AREAS AS REQUIRED.
7. THE DEVELOPER TO MAINTAIN THE PLANTING AND EROSION CONTROL MEASURES DESCRIBED ABOVE. 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. THE DEVELOPER SHALL REPAIR ANY ERODED SLOPES.

SOILS/GEOLOGIC ENGINEER'S CERTIFICATE

THIS GRADING PLAN HAS BEEN REVIEWED BY THE UNDERSIGNED AND FOUND TO BE IN CONFORMANCE WITH THE RECOMMENDATIONS AND SPECIFICATIONS OUTLINED IN THE SOILS REPORT PREPARED FOR THIS DEVELOPMENT, CGS PROJECT #04 CGS2786.

CONSTRUCTION TESTING & ENGINEERING, INC.
DATED: MARCH 7, 2017, CTE JOB #10-13509G
ADDRESS: 1441 MONTIEL ROAD, SUITE 115, ESCONDIDO, CALIFORNIA 92026
PHONE: (760) 746-4955

REGISTERED PROFESSIONAL ENGINEER — DANIEL T. MATH — No.2665 EXP.12/31/18 — GEOTECHNICAL — STATE OF CALIFORNIA

DANIEL T. MATH — 07/18/2017 — DATE:

PROFESSIONAL GEOLOGIST — JAY F. LYNCH — No.1890 CERTIFIED ENGINEERING GEOLOGIST Exp. 5/31/19 — STATE OF CALIFORNIA

JAY F. LYNCH — 07/18/2017 — DATE:

PROFESSIONAL GEOLOGIST — AARON J. BEEBY — No.2803 CERTIFIED ENGINEERING GEOLOGIST Exp. 3/31/18 — STATE OF CALIFORNIA

AARON J. BEEBY — 07/18/2017 — DATE:

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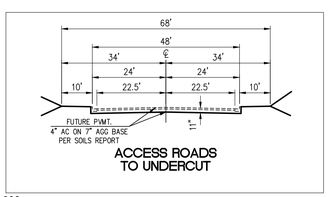

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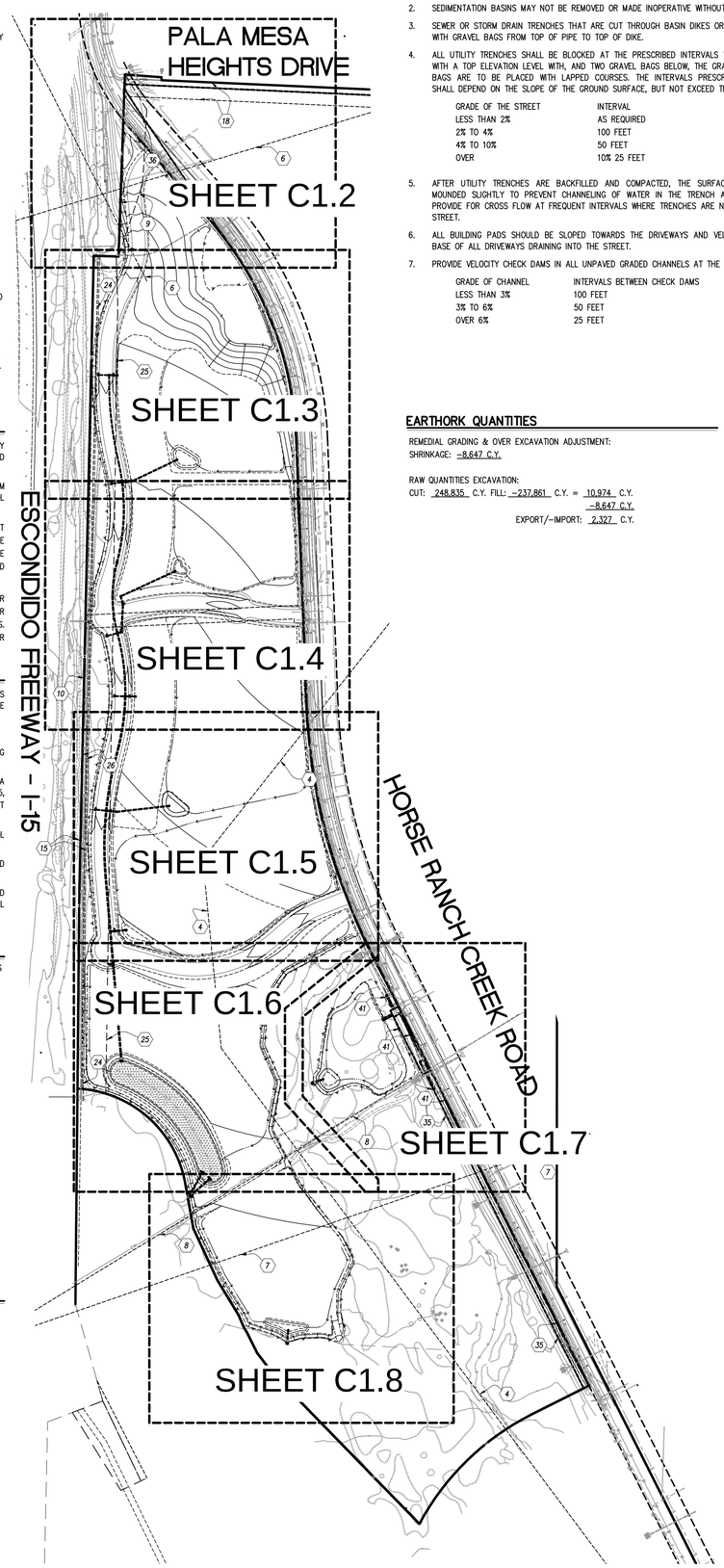

SILTATION AND SEDIMENT CONTROL MEASURES NOTES

1. THE SEDIMENT BASINS SHALL BE PROVIDED AT THE LOWER END OF EVERY DRAINAGE AREA PRODUCING SEDIMENT RUNOFF. THE BASINS SHALL BE MAINTAINED AND CLEANED TO DESIGN CONTOURS AFTER EVERY RUNOFF PRODUCING STORM. THE BASINS SHOULD BE SEMIPERMANENT 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 OF THE ENGINEER.
3. SEWER OR STORM DRAIN 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 LEVEL WITH, AND 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 NOT EXCEED THE FOLLOWING:

GRADE OF THE STREET	INTERVAL
LESS THAN 2%	AS REQUIRED
2% TO 4%	100 FEET
4% TO 10%	50 FEET
OVER	10% 25 FEET

5. AFTER UTILITY TRENCHES ARE BACKFILLED AND COMPACTED, THE SURFACES OVER SUCH TRENCHES SHALL BE MOUNDED SLIGHTLY TO PREVENT CHANNELING OF WATER IN THE TRENCH AREA. CARE SHOULD BE EXERCISED TO PROVIDE FOR CROSS FLOW AT FREQUENT INTERVALS WHERE TRENCHES ARE NOT ON THE CENTERLINE OF A CROWNED STREET.
6. ALL BUILDING PADS SHOULD BE SLOPED TOWARDS THE DRIVEWAYS AND VELOCITY CHECK DAMS PROVIDED AT THE BASE OF ALL DRIVEWAYS DRAINING INTO THE STREET.
7. PROVIDE VELOCITY CHECK DAMS IN ALL UNPAVED GRADED CHANNELS AT THE INTERVALS INDICATED BELOW:

GRADE OF CHANNEL	INTERVALS BETWEEN CHECK DAMS
LESS THAN 3%	100 FEET
3% TO 6%	50 FEET
OVER 6%	25 FEET

8. PROVIDE VELOCITY CHECK DAMS IN ALL STREET AREAS ACCORDING TO INTERVALS INDICATED BELOW. VELOCITY CHECK DAMS MAY BE CONSTRUCTED OF GRAVEL BAGS, TIMBER, OR OTHER EROSION RESISTANT MATERIALS, AND SHALL EXTEND COMPLETELY ACROSS THE STREET OR CHANNEL AT RIGHT ANGLES TO THE CENTERLINE. VELOCITY CHECK DAMS MAY ALSO SERVE AS SEDIMENT TRAPS.

GRADE OF STREET	INTERVAL	NUMBER OF BAGS HIGH
LESS THAN 2%	AS REQUIRED	
	200 FEET MAX	1
2% TO 4%	100 FEET	1
4% TO 6%	50 FEET	1
6% TO 10%	50 FEET	2
OVER 10%	25 FEET	2

9. PROVIDE A GRAVEL BAG SILT BASIN OR TRAP BY EVERY STORM DRAIN INLET TO PREVENT SEDIMENT FROM ENTERING DRAIN SYSTEM.
10. GRAVEL BAGS AND FILL MATERIAL SHALL BE STOCKPILED AT INTERVALS, READY FOR USE WHEN REQUIRED.
11. ALL EROSION CONTROL DEVICES WITHIN THE DEVELOPMENT SHOULD BE MAINTAINED DURING AND AFTER EVERY RUNOFF PRODUCING STORM, IF POSSIBLE, MAINTENANCE CREWS WOULD BE REQUIRED TO HAVE ACCESS TO ALL AREAS.
12. PROVIDE ROCK RIPRAP ON CURVES AND STEEP DROPS IN ALL EROSION PRONE DRAINAGE CHANNELS DOWNSTREAM FROM THE DEVELOPMENT. THIS PROTECTION WOULD REDUCE EROSION CAUSED BY THE INCREASED FLOWS THAT MAY BE ANTICIPATED FROM DENUDED SLOPES, OR IMPERVIOUS SURFACES.

ANY PROPOSED ALTERNATE CONTROL MEASURES MUST BE APPROVED IN ADVANCE BY ALL RESPONSIBLE AGENCIES; I.E., THE REGIONAL WATER QUALITY CONTROL BOARD.
THE USE OF BFM'S IS SUBJECT TO THE FOLLOWING LIMITATIONS AND RESTRICTIONS:

1. APPLICATION RATES SHALL BE 3500 POUNDS PER ACRE MINIMUM FOR 2:1 OR SHALLOWER SLOPES AND 4000 POUNDS PER ACRE FOR SLOPES STEEPER THAN 2:1.
2. BFM SHALL BE APPLIED AT LEAST 24 HOURS BEFORE OR AFTER RAINFALL.
3. THE SITE MUST BE PROTECTED WITH BROW DITCHES AND / OR DIVERSION BERMS AT THE TOP OF SLOPES TO DIVERT FLOW FROM THE FACE OF THE SLOPE.
4. BFM SHALL BE APPLIED TO PROVIDE 100% COVERAGE (I.E. APPLICATION FROM MULTIPLE ANGLES).
5. FOR PERMANENT EROSION CONTROL PURPOSES, BFM MUST BE INSTALLED IN CONJUNCTION WITH SEEDED EROSION CONTROL VEGETATION.
6. A LETTER FROM THE HYDROSEED CONTRACTOR CERTIFYING THAT THE BFM HAS BEEN INSTALLED IN ACCORDANCE WITH THE APPROVED APPLICATION RATES AND COVERAGE REQUIREMENTS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

EARTHORK QUANTITIES

REMEDIAL GRADING & OVER EXCAVATION ADJUSTMENT:
SHRINKAGE: -8,647 C.Y.

RAW QUANTITIES EXCAVATION:
CUT: 248,835 C.Y. FILL: -237,861 C.Y. = 10,974 C.Y.
-8,647 C.Y.
EXPORT/-IMPORT: 2,327 C.Y.

SOILS REPORT RECOMENDATIONS

SITE PREPARATION

1. PRIOR TO GRADING, THE SITE SHOULD BE CLEARED OF ANY EXISTING VEGETATION OR DEBRIS, NOT SUITABLE FOR STRUCTURAL BACKFILL AND BE PROPERLY DISPOSED OF OFFSITE.
2. IN AREAS TO RECEIVE STRUCTURES, OVER-EXCAVATION SHOULD EXTEND TO A MINIMUM DEPTH OF TWO FEET BELOW PROPOSED FOUNDATIONS OR TO THE DEPTH OF COMPETENT OLD ALLUVIAL FLOOD PLAIN DEPOSITS, WHICHEVER IS DEEPER.
3. IN ORDER TO PROVIDE RELATIVELY UNIFORM CONDITIONS UNDER PROPOSED STRUCTURES, THE DEPTH OF FILL SHOULD ALSO BE A MINIMUM OF 1/3 THE MAXIMUM DEPTH OF FILL BENEATH THE STRUCTURE FOOTPRINT.
4. OVER-EXCAVATION SHOULD EXTEND LATERALLY AT LEAST FIVE FEET BEYOND THE LIMITS OF THE PROPOSED IMPROVEMENTS, OR A DISTANCE EQUAL TO THE DEPTH OF THE OVER-EXCAVATION, WHICHEVER IS GREATER.
5. OVER-EXCAVATION IN PROPOSED PAVEMENT OR FLATWORK AREAS SHOULD BE CONDUCTED TO A MINIMUM DEPTH OF FIVE FEET BELOW PROPOSED GRADE, OR TO THE DEPTH OF COMPETENT UNDERLYING MATERIALS (FOR STATIC SUPPORT PURPOSES). YOUNG ALLUVIAL FLOOD DEPOSITS ARE GENERALLY ANTICIPATED TO BE SUITABLE FOR STATIC SUPPORT PURPOSES AT A DEPTH OF FIVE FEET BELOW EXISTING OR PROPOSED GRADES, WHICHEVER IS DEEPER. HOWEVER, IT IS GENERALLY RECOMMENDED THAT ALL YOUNG ALLUVIAL FLOOD DEPOSITS ARE OVER-EXCAVATED AND RE-COMPACTED WITHIN AN IMAGINARY 1:1 PLANE EXTENDED DOWN FROM THE SOUTHERNMOST EDGE OF THE SOUTH DRIVEWAY ACCESS AND SIDEWALK IMPROVEMENTS, SHOULD THE OVER-EXCAVATIONS FOR THE PROPOSED BUILDING IMPROVEMENT AREAS NOT ALREADY REMOVE AND RE-COMPACT THIS ZONE. THIS ADDITIONAL OVER-EXCAVATION IS CONSIDERED OPTIONAL FROM A BUILDING CODE STANDPOINT, BUT IS RECOMMENDED DUE THE ANTICIPATED RELATIVE IMPORTANCE OF THE SOUTHERN CAMPUS ACCESS.
6. A SOILS ENGINEER'S REPRESENTATIVE SHOULD OBSERVE THE EXPOSED GROUND SURFACE PRIOR TO PLACEMENT OF COMPACTED FILL TO DOCUMENT AND VERIFY THE COMPETENCY OF THE ENCOUNTERED SUBGRADE MATERIALS. IF UNSUITABLE MATERIAL IS EXPOSED AT THE BASE OF EXCAVATIONS ADDITIONAL REMOVALS MAY BE RECOMMENDED. AFTER APPROVAL BY THIS OFFICE, THE EXPOSED SUBGRADES TO RECEIVE FILL SHOULD BE SCARIFIED A MINIMUM OF NINE INCHES, MOISTURE CONDITIONED, AND PROPERLY COMPACTED PRIOR TO ADDITIONAL COMPACTED FILL PLACEMENT.
7. IF ENCOUNTERED, EXISTING BELOW-GROUND UTILITIES SHOULD BE REDIRECTED AROUND PROPOSED STRUCTURES. EXISTING UTILITIES AT AN ELEVATION TO EXTEND THROUGH THE PROPOSED FOOTINGS SHOULD GENERALLY BE SLEEVED AND CAULKED TO MINIMIZE THE POTENTIAL FOR MOISTURE MIGRATION BELOW THE BUILDING SLABS. ABANDONED PIPES EXPOSED BY GRADING SHOULD BE SECURELY CAPPED OR FILLED WITH MINIMUM TWO-SACK CEMENT/SAND SLURRY TO HELP PREVENT MOISTURE FROM MIGRATING BENEATH FOUNDATION AND SLAB SOILS.
8. AN ENGINEER OR GEOLOGIST SHOULD OBSERVE THE EXPOSED BOTTOM OF OVER-EXCAVATIONS PRIOR TO PLACEMENT OF COMPACTED FILL OR IMPROVEMENTS. OVER-EXCAVATION SHOULD EXTEND TO A DEPTH OF SUITABLE COMPETENT SOIL AS OBSERVED BY A SOILS ENGINEER'S REPRESENTATIVE. AS INDICATED, DEEPER EXCAVATIONS OR OVER-EXCAVATIONS MAY BE NECESSARY DEPENDING UPON ENCOUNTERED CONDITIONS.

SITE EXCAVATION

1. GENERALLY, EXCAVATION OF SITE MATERIALS MAY BE ACCOMPLISHED WITH HEAVY-DUTY CONSTRUCTION EQUIPMENT UNDER NORMAL CONDITIONS.
2. EXCAVATIONS WITHIN THE ALLUVIAL FLOOD PLAIN DEPOSITS COULD BE SENSITIVE TO CAVING AND/OR EROSION, AND MAY NOT EFFECTIVELY REMAIN STANDING VERTICAL OR NEAR-VERTICAL, EVEN AT SHALLOW OR MINOR HEIGHTS AND FOR SHORT PERIODS OF TIME.
3. SEASONAL GROUNDWATER MAY LOCALLY BE ENCOUNTERED IN CONSTRUCTION EXCAVATIONS.

FILL PLACEMENT AND COMPACTION

1. FOLLOWING RECOMMENDED OVER-EXCAVATION OF LOOSE OR DISTURBED SOILS, AREAS TO RECEIVE FILLS OR IMPROVEMENTS SHOULD BE SCARIFIED A MINIMUM OF NINE INCHES, MOISTURE CONDITIONED, AND PROPERLY COMPACTED.
2. GRANULAR FILL AND BACKFILL SHOULD BE COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 90 PERCENT AT A MOISTURE CONTENT OF AT LEAST TWO PERCENT ABOVE OPTIMUM, AS EVALUATED BY ASTM D 1557.
3. THE OPTIMUM LIFT THICKNESS FOR FILL SOIL WILL DEPEND ON THE TYPE OF COMPACTION EQUIPMENT USED. GENERALLY, BACKFILL SHOULD BE PLACED IN UNIFORM, HORIZONTAL LIFTS NOT EXCEEDING EIGHT INCHES IN LOOSE THICKNESS.
4. FILL PLACEMENT AND COMPACTION SHOULD BE CONDUCTED IN CONFORMANCE WITH LOCAL ORDINANCES.

FILL MATERIALS

1. PROPERLY MOISTURE-CONDITIONED VERY LOW TO LOW EXPANSION POTENTIAL SOILS DERIVED FROM THE ON-SITE EXCAVATIONS ARE CONSIDERED SUITABLE FOR REUSE AS COMPACTED FILL ON THE SITE IF PREPARED AND PLACED AS RECOMMENDED.
2. SOILS SHOULD BE SCREENED OF ORGANICS AND MATERIALS GENERALLY GREATER THAN THREE INCHES IN MAXIMUM DIMENSION.
3. IF ENCOUNTERED, IRREDUCIBLE MATERIALS GREATER THAN THREE INCHES IN MAXIMUM DIMENSION GENERALLY SHOULD NOT BE USED IN SHALLOW FILLS (WITHIN THREE FEET OF PROPOSED GRADES). IN UTILITY TRENCHES, ADEQUATE BEDDING SHOULD SURROUND PIPES.
4. IMPORTED FILL BENEATH STRUCTURES AND FLATWORK SHOULD HAVE AN EXPANSION INDEX OF 20 OR LESS (ASTM D 4829) WITH LESS THAN 30 PERCENT PASSING THE NO. 200 SIEVE.
5. PROPOSED FILL SOILS FOR USE IN STRUCTURAL OR SLOPE AREAS SHOULD BE EVALUATED BY SOIL ENGINEER'S REPRESENTATIVE BEFORE BEING IMPORTED TO THE SITE.
6. ALTHOUGH THIS REPORT IS NOT INTENDED TO ADDRESS ENVIRONMENTAL CONDITIONS AT THE SUBJECT SITE, WE ANTICIPATE THAT IMPORTED SOILS WILL BE SCREENED, SAMPLED, AND TESTED IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL (2001) CLEAN FILL INFORMATION ADVISORY FOR IMPORTED FILL SOILS TO PUBLIC SCHOOL SITES, OR CONDITIONAL WAIVER 10 OF RWQCB REGION 9 ORDER NO. R9-2014-0041, DATED JUNE 26, 2014, AS APPLICABLE.
7. RETAINING WALL BACKFILL LOCATED WITHIN A 45-DEGREE WEDGE EXTENDING UP FROM THE BOTTOM OF THE HEEL OF THE WALL FOUNDATION SHOULD CONSIST OF SOIL HAVING AN EXPANSION INDEX OF 20 OR LESS (ASTM D 4829) WITH LESS THAN 30 PERCENT PASSING THE NO. 200 SIEVE. ON SITE SOIL GRADATION AND ATTERBERG LIMIT LABORATORY TESTS INDICATE THAT LOCALIZED SITE SOILS MAY NOT MEET THESE RECOMMENDATIONS. AS SUCH SELECTIVE GRADING AND/OR IMPORT OF SELECT SOIL COULD BE NECESSARY.
8. THE UPPER 12 TO 18 INCHES OF WALL BACKFILL COULD CONSIST OF LOWER PERMEABILITY SOILS, IN ORDER TO REDUCE SURFACE WATER INFILTRATION BEHIND WALLS.
9. THE PROJECT STRUCTURAL ENGINEER AND/OR ARCHITECT SHOULD DETAIL PROPER WALL BACK DRAINS, INCLUDING GRAVEL DRAIN ZONES, FILLS, FILTER FABRIC AND PERFORATED DRAIN PIPES.
10. A CONCEPTUAL WALL BACK DRAIN DETAIL IS PROVIDED IN FIGURE 6 OF THE REFERENCED SOILS REPORT.

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KEYNOTES

NOTES

1. CONTOURS AND ELEVATIONS SHOWN IN FUTURE ROADS ARE TO FINISHED GRADE. SUB-GRADE PER SOILS REPORT AND STREET SECTION ON PAGE 1.
2. BENCHMARK USED IS SDGPS 3 FROM COUNTY OF SAN DIEGO CONTROL DATA SHEET ELV.=306.01 NAV29
3. WDID #_____

Consultant
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Key Plan

Consultant Seal — REGISTERED PROFESSIONAL ENGINEER — ROBERT D. ALVARO — No. C081699 Exp. 03/31/18 — CIVIL — STATE OF CALIFORNIA

Agency Approval — FILE NO. 37-C1
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 4 - 116312
ACS ____ FLS ____ SSS ____
DATE ____

Project Title
PALOMAR COLLEGE — Learning for Success
North Education Center
Palomar College
-
Fallbrook, CA 92003

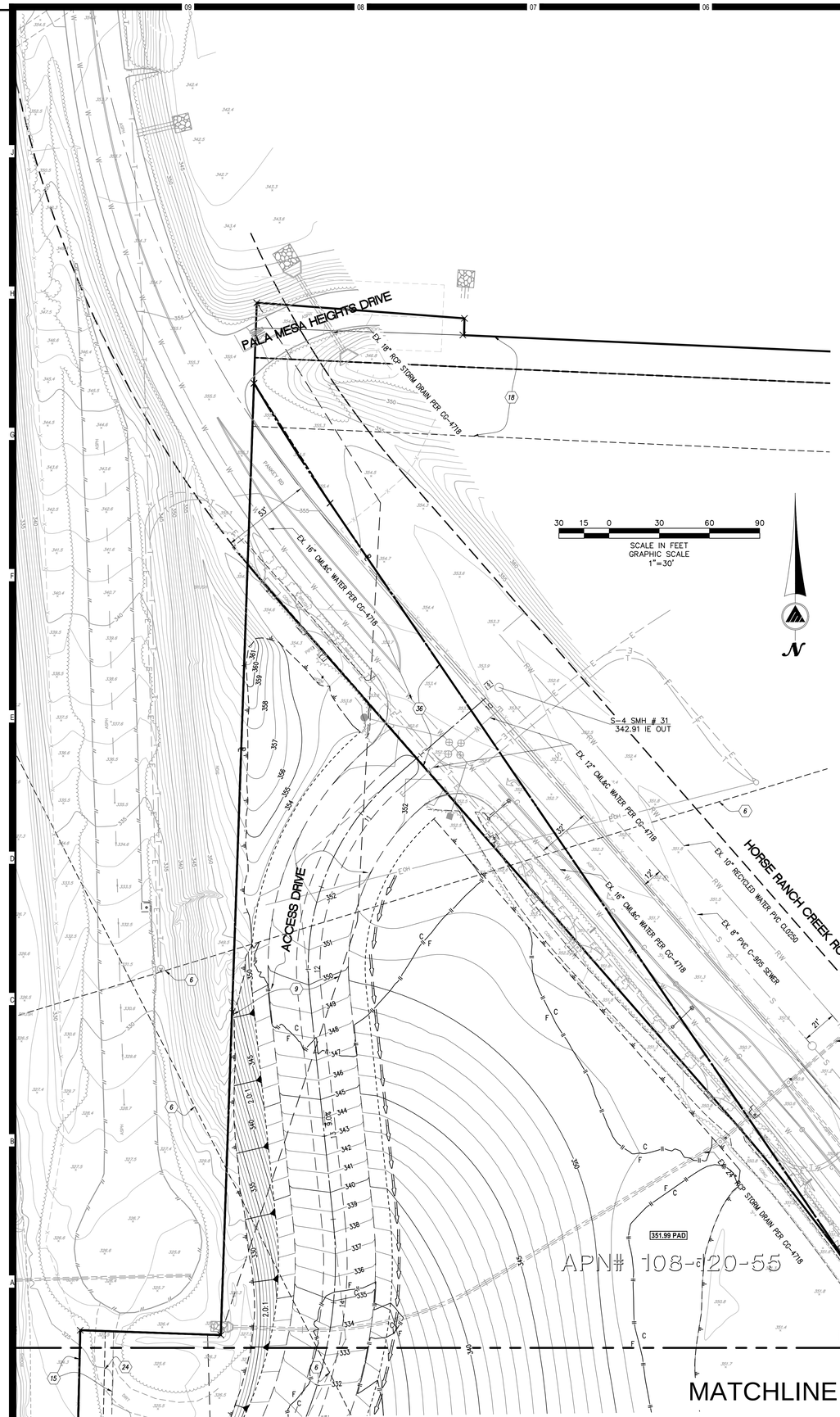
No.	Description	Date
	DSA APPROVAL	07/19/2017
	DSA SUBMITAL	05/22/2017

Drawing Title:

ROUGH GRADING PLAN

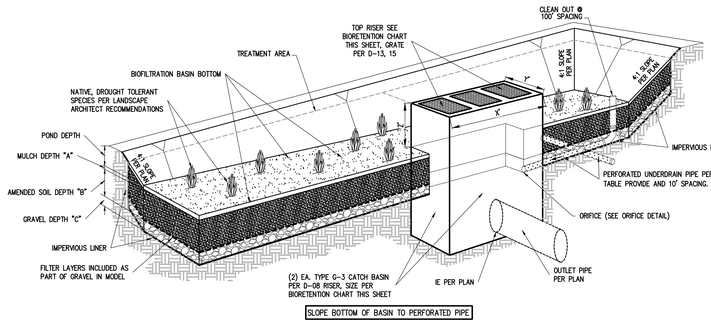
Architect's Seal — LICENSED ARCHITECT — BRADLEY E. GLASER — No. C-32437 — REN. 02-28-19 — STATE OF CALIFORNIA

Designed: RD / DAM	Project No. 5015019
	MAI PN: 16249
Drawn: DAM	Scale: AS NOTED
QAQC RD	Drawing No. C1.1
Date: Jul 18, 17	



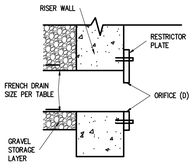
BIOFILTRATION CHART

IMP. #	ORIFICE D (IN)	ORIFICE INVERT ELEVATION (FT)	PERFORATED PIPE (IN)	# OF RISERS	RISER SIZE O.D. IN FEET (X,Y)	POND DEPTH (FT)	MULCH DEPTH "A" (IN)	AMENDED SOIL DEPTH "B" (IN)	GRAVEL DEPTH "C" (IN)	BASIN BOTTOM TO TOP OF RISER "Z" (FT)	TOP OF GRATE ELEVATION
1	3.1"	290.25	6"	2	7' x 4'	5' MIN	3"	18"	15"	3'	297.00



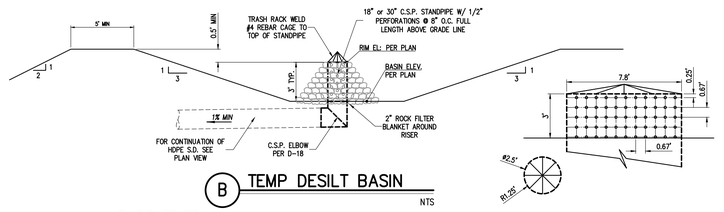
A BIOFILTRATION FACILITY

N.T.S.



Aa LID ORIFICE DETAIL

N.T.S.



B TEMP DESILT BASIN

NTS

EASEMENTS

(4) AN EASEMENT FOR PUBLIC UTILITIES AND INCIDENTAL PURPOSES, RECORDED AUGUST 27, 1926 IN BOOK 1248 OF DEEDS, PAGE 267.
IN FAVOR OF: SAN DIEGO CONSOLIDATED GAS AND ELECTRIC COMPANY, A CORPORATION
AFFECTS: AS DESCRIBED THEREIN

(6) AN EASEMENT FOR PUBLIC UTILITIES AND INCIDENTAL PURPOSES, RECORDED JUNE 20, 1951 IN BOOK 4151, PAGE 492 OF OFFICIAL RECORDS.
IN FAVOR OF: SAN DIEGO GAS & ELECTRIC COMPANY
AFFECTS: AS DESCRIBED THEREIN

(7) AN EASEMENT FOR PUBLIC UTILITIES AND INCIDENTAL PURPOSES, RECORDED DECEMBER 14, 1951 IN BOOK 4320, PAGE 280 OF OFFICIAL RECORDS.
IN FAVOR OF: SAN DIEGO GAS & ELECTRIC COMPANY
AFFECTS: AS DESCRIBED THEREIN

(8) AN EASEMENT FOR PUBLIC UTILITIES AND INCIDENTAL PURPOSES, RECORDED MAY 15, 1952 IN BOOK 4469, PAGE 56 OF OFFICIAL RECORDS.
IN FAVOR OF: SAN DIEGO GAS & ELECTRIC COMPANY
AFFECTS: AS DESCRIBED THEREIN

(9) AN EASEMENT FOR THE PRIVILEGE AND RIGHT TO EXTEND DRAINAGE STRUCTURES AND EXCAVATION AND EMBANKMENT SLOPES BEYOND THE LIMITS OF STATE HIGHWAY ROUTE 15 AND INCIDENTAL PURPOSES, RECORDED JULY 6, 1973 AS INSTRUMENT NO. 73-186085 OF OFFICIAL RECORDS.
IN FAVOR OF: STATE OF CALIFORNIA
AFFECTS: AS DESCRIBED THEREIN

(10) ABUTTER'S RIGHTS OF INGRESS AND EGRESS TO OR FROM FREEWAY ADJACENT THERETO, HAVE BEEN RELINQUISHED IN THE DOCUMENT RECORDED JULY 6, 1973 AS INSTRUMENT NO. 73-186085 OF OFFICIAL RECORDS.

(13) ABUTTER'S RIGHTS OF INGRESS AND EGRESS TO OR FROM THE HIGHWAY CONTIGUOUS THERETO, HAVE BEEN RELINQUISHED IN THE DOCUMENT RECORDED MAY 18, 1976 AS INSTRUMENT NO. 76-148955 OF OFFICIAL RECORDS.

(15) AN EASEMENT FOR A PIPELINE OR PIPELINES AND INCIDENTAL PURPOSES, RECORDED OCTOBER 6, 1978 AS INSTRUMENT NO. 78-425959 OF OFFICIAL RECORDS.
IN FAVOR OF: RAINBOW MUNICIPAL WATER DISTRICT, A MUNICIPAL CORPORATION
AFFECTS: AS DESCRIBED THEREIN

(18) AN EASEMENT FOR ROAD AND UTILITY PURPOSES AND INCIDENTAL PURPOSES, RECORDED DECEMBER 4, 1979 AS INSTRUMENT NO. 79-508977 OF OFFICIAL RECORDS.
IN FAVOR OF: PANKEY RANCH
AFFECTS: AS DESCRIBED THEREIN

(24) AN EASEMENT SHOWN OR DEDICATED ON THE MAP FILED OR RECORDED FEBRUARY 28, 1985 AS PARCEL MAP NO. 13703 OF PARCEL MAPS
FOR: PUBLIC ROADWAY TOGETHER WITH THE RIGHT TO EXTEND AND MAINTAIN DRAINAGE FACILITIES AND EXCAVATION AND EMBANKMENT SLOPES AND INCIDENTAL PURPOSES. AT THE TIME OF RECORDING, SAID DEDICATION WAS REJECTED.
A DOCUMENT ENTITLED "A RESOLUTION OF THE BOARD OF SUPERVISORS OF THE COUNTY OF SAN DIEGO RESCINDING THE REJECTION OF OFFERS OF DEDICATION OF EASEMENTS FOR ROAD PURPOSES MADE ON PARCEL MAP 13703 AND ACCEPTING THOSE OFFERS RELATED TO HIGHWAY 76, PANKEY ROAD AND SHEARER CROSSING (RESOLUTION NO. 07-178)" RECORDED AUGUST 7, 2007 AS INSTRUMENT NO. 2007-0526635 OF OFFICIAL RECORDS.
SAID PUBLIC ROADWAY WAS VACATED BY A RESOLUTION OF THE BOARD OF SUPERVISORS TO SUMMARILY VACATE A PORTION OF PANKEY ROAD (VACATION NO. 2009-0223-A), RESERVING A NON-MOTORIZED TRAIL EASEMENT AND ACCESS THERETO AND INCIDENTAL PURPOSES, AS DISCLOSED IN A DOCUMENT RECORDED APRIL 28, 2011 AS INSTRUMENT NO. 2011-0222510 OF OFFICIAL RECORDS.

(25) ABUTTER'S RIGHTS OF INGRESS AND EGRESS TO OR FROM PUBLIC ROADWAY, EXCEPTING THEREFROM ACCESS OPENINGS, HAVE BEEN DEDICATED OR RELINQUISHED ON THE MAP OF PARCEL MAP NO. 13703 OF PARCEL MAPS RECORDED FEBRUARY 28, 1985. AT THE TIME OF RECORDING, SAID DEDICATION WAS REJECTED.

(26) AN EASEMENT SHOWN OR DEDICATED ON THE MAP FILED OR RECORDED FEBRUARY 28, 1985 AS PARCEL MAP NO. 13703 OF PARCEL MAPS
FOR: FLOWAGE EASEMENT AND INCIDENTAL PURPOSES.

(35) AN EASEMENT FOR PUBLIC UTILITIES AND INCIDENTAL PURPOSES, RECORDED JANUARY 7, 2011 AS INSTRUMENT NO. 2011-0013746 OF OFFICIAL RECORDS.
IN FAVOR OF: SAN DIEGO GAS & ELECTRIC COMPANY, A CORPORATION
AFFECTS: AS DESCRIBED THEREIN
TERMS AND PROVISIONS CONTAINED IN THE ABOVE DOCUMENT.

(36) AN EASEMENT FOR A PUBLIC HIGHWAY, DRAINAGE STRUCTURES, EXCAVATION AND EMBANKMENT SLOPES AND INCIDENTAL PURPOSES, RECORDED JANUARY 10, 2011 AS INSTRUMENT NO. 2011-0017039 OF OFFICIAL RECORDS.
IN FAVOR OF: COUNTY OF SAN DIEGO
AFFECTS: AS DESCRIBED THEREIN

(41) AN EASEMENT FOR TEMPORARY EASEMENT FOR PUBLIC UTILITIES AND INCIDENTAL PURPOSES, RECORDED MARCH 23, 2015 AS INSTRUMENT NO. 2015-0133113 OF OFFICIAL RECORDS.
IN FAVOR OF: SAN DIEGO GAS & ELECTRIC COMPANY, A CORPORATION
AFFECTS: AS DESCRIBED THEREIN
TERMS AND PROVISIONS CONTAINED IN THE ABOVE DOCUMENT.

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KEYNOTES

LEGEND

PROPERTY BOUNDARY
EASEMENT
RIGHT OF WAY
POINT OF TANGENCY
CENTERLINE
FUTURE CURB / DWY
LIMITS OF GRADING
TOP / TOE OF SLOPE
DAYLIGHT LINE
CUT / FILL SLOPE DART
HDPE S.D. SIZE PER PLAN
S.D. HEADWALL PER PLAN
TYPE F C.B.
TYPE B C.I.
TYPE A C.O.
TYPE G C.B. PER PLAN
MOD. RISER PER D-16
RIPRAP PER PLAN
D-75 BROW DITCH
EXISTING EASEMENT
EXISTING ELECTRICAL
EXISTING TELEPHONE
EXISTING GAS
EXISTING SEWER
EX SEWER APPURT'S
EXISTING WATER
EX WATER APPURT'S
EXISTING STORM DRAIN
EX S.D. APPURT'S
EXISTING REC. WATER

NOTES

1. CONTOURS AND ELEVATIONS SHOWN IN FUTURE ROADS ARE TO FINISHED GRADE. SUB-GRADE PER SOILS REPORT AND STREET SECTION ON PAGE 1.
2. BENCHMARK USED IS SDGPS 3 FROM COUNTY OF SAN DIEGO CONTROL DATA SHEET ELV.=306.01 NAV29
3. WDID #_____

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Key Plan

Consultant Seal
REGISTERED PROFESSIONAL ENGINEER ROBERT D. AARON No. C081699 Exp. 03/31/18 CIVIL STATE OF CALIFORNIA

Agency Approval FILE NO.
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. ---
ACS ____ FLS ____ SSS ____
DATE ____

Project Title
PALOMAR COLLEGE Learning for Success
North Education Center
Palomar College
Fallbrook, CA 92003

No.	Description	Date
	DSA APPROVAL	07/19/2017
	DSA SUBMITAL	05/22/2017

Drawing Title:

ROUGH GRADING PLAN

Architect's Seal
LICENSED ARCHITECT RODNEY E. GLASSEY No. C-32437 REN. 02-28-19 STATE OF CALIFORNIA

Designed: RD / DAM	Project No. 5015019 MAI PN: 16249
Drawn: DAM	Scale: AS NOTED
QAQC: RD	Drawing No. C1.2
Date: Jul 18, 17	

MATCHLINE - SEE SHEET C1.2

MATCHLINE - SEE SHEET C1.4

SCALE IN FEET
GRAPHIC SCALE
1"=30'

ESCONDIDO FREEWAY - I-15

ACCESS DRIVE

STORM DRAIN LINE - A-01

STORM DRAIN LINE - A

STORM DRAIN LINE - A-02

FUTURE CAMPUS

FUTURE PARKING

APN# 108-120-55

HORSE RANCH CREEK ROAD

351.74 PAD

317.30 BASIN

4' C.O. TYPE A-4
STA:18+39.99 @ -11.00LT
RIM EL:325.41
I.E. IN:316.94 ~ 18"
I.E. IN:316.94 ~ 24"
I.E. OUT:316.61 ~ 24"

11.17' of 24" @ 1.00%

9.00' of 24" @ 1.00%

4' C.O. TYPE A-4 WITH TYPE-F OPG. EA. SIDE
STA:18+39.99 @ -38.67LT
RIM EL:325.00
I.E. OUT:317.48 ~ 24"

D-2 C.I. TYPE B-1 ~ L=10'
STA:18+39.99 @ 26.17RT
RIM EL:325.60
I.E. OUT:317.28 ~ 18"

33.17' of 18" @ 1.00%

D-2 C.I. TYPE B-1 ~ L=10'
STA:18+39.99 @ -26.17LT
RIM EL:325.60
I.E. IN:317.39 ~ 24"
I.E. OUT:317.06 ~ 24"

270.11' of 24" @ 1.00%

Null Structure
STA:21+14.67 @ -11.00LT
RIM EL:322.66
I.E. IN:313.91 ~ 24"
I.E. OUT:313.91 ~ 24"

Null Structure
STA:21+48.96 @ -11.00LT
RIM EL:322.32
I.E. IN:313.57 ~ 24"
I.E. OUT:313.57 ~ 24"

TEMPORARY SEDIMENT BASIN B1-AG
MINIMUM BOTTOM AREA 1,339 S.F.
MINIMUM SEDIMENT VOLUME 1,054 C.F.
MINIMUM FLOW VOLUME 8,007 C.F.
TOTAL VOLUME REQ. 9,061 C.F.

TEMP CORRUGATED STEEL RISER MODIFIED PER D-16
SD STA:2+52.32 @ 0.00
RIM EL:321.30
I.E. OUT:315.58 ~ 30"

4' C.O. TYPE A-4
STA:22+07.82 @ -11.00LT
RIM EL:321.73
I.E. IN:312.99 ~ 24"
I.E. IN:312.99 ~ 30"
I.E. IN:312.99 ~ 18"
I.E. OUT:312.66 ~ 36"

11.17' of 30" @ 1.00%

164.95' of 30" @ 1.00%

34.28' of 24" @ 1.00%

57.79' of 24" @ 1.00%

33.17' of 18" @ 1.00%

D-2 C.I. TYPE B-1 ~ L=8'
STA:22+07.82 @ 26.17RT
RIM EL:321.92
I.E. OUT:313.32 ~ 18"

D-8 C.B. TYPE G1
STA:22+07.82 @ -46.46LT
RIM EL:320.64
I.E. IN:313.93 ~ 30"
I.E. OUT:313.60 ~ 30"

17.33' of 30" @ 1.00%

D-2 C.I. TYPE B-1 ~ L=8'
STA:22+07.82 @ -26.17LT
RIM EL:321.92
I.E. IN:313.43 ~ 30"

S-4 SMH # 29
336.79 IE IN
336.69 IE OUT

S-4 SMH # 28
334.91 IE IN
334.81 IE OUT

S-4 SMH # 27
329.92 IE IN
329.72 IE OUT

EX. 16" CML&C WATER PER CC-4718

EX. 18" PVC STORM DRAIN PER CC-4718

KEYNOTES

LEGEND

- PROPERTY BOUNDARY
- EASEMENT
- RIGHT OF WAY
- POINT OF TANGENCY
- CENTERLINE
- FUTURE CURB / DWY
- LIMITS OF GRADING
- TOP / TOE OF SLOPE
- DAYLIGHT LINE
- CUT / FILL SLOPE DART
- HDPE S.D. SIZE PER PLAN
- S.D. HEADWALL PER PLAN
- TYPE F C.B.
- TYPE B C.I.
- TYPE A C.O.
- TYPE G C.B. PER PLAN
- MOD. RISER PER D-16
- RIPRAP PER PLAN
- D-75 BROW DITCH
- EXISTING EASEMENT
- EXISTING ELECTRICAL
- EXISTING TELEPHONE
- EXISTING GAS
- EXISTING SEWER
- EX SEWER APPURT'S
- EXISTING WATER
- EX WATER APPURT'S
- EXISTING STORM DRAIN
- EX S.D. APPURT'S
- EXISTING REC. WATER

NOTES

1. CONTOURS AND ELEVATIONS SHOWN IN FUTURE ROADS ARE TO FINISHED GRADE. SUB-GRADE PER SOILS REPORT AND STREET SECTION ON PAGE 1.
2. BENCHMARK USED IS SDGPS 3 FROM COUNTY OF SAN DIEGO CONTROL DATA SHEET ELV.= 306.01 NAV29
3. WDID #_____

HMC Architects
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Consultant
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Solved.
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O. 760.741.3570
F. 760.741.1786
www.masson-assoc.com

Key Plan

Consultant Seal
REGISTERED PROFESSIONAL ENGINEER ROBERT D. MASSON No. C081699 Exp. 03/31/18 CIVIL STATE OF CALIFORNIA

Agency Approval FILE NO.
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. ---
ACS ____ FLS ____ SSS ____
DATE ____

Project Title
PALOMAR COLLEGE Learning for Success
North Education Center
Palomar College
-
Fallbrook, CA 92003

No.	Description	Date
	DSA APPROVAL	07/19/2017
	DSA SUBMITAL	05/22/2017

Drawing Title:

ROUGH GRADING PLAN

Architect's Seal
LICENSED ARCHITECT BRENT E. GLASER No. C-32437 REN. 02-28-19 STATE OF CALIFORNIA

Designed:	RD / DAM	Project No.	5015019
			MAI PN: 16249
Drawn:	DAM	Scale:	AS NOTED
QAQC	RD	Drawing No.	C1.3
Date:	Jul 18, 17		

MATCHLINE - SEE SHEET C1.3

MATCHLINE - SEE SHEET C1.5

D-8 C.B. TYPE G1
STA: 22+07.82 @ −46.46LT
RIM EL: 320.64
I.E. IN: 313.93 ~ 30"
I.E. OUT: 313.60 ~ 30"

17.33' of 30" @ 1.00%

D-2 C.I. TYPE B-1 ~ L=8'
STA: 22+07.82 @ −26.17LT
RIM EL: 321.92
I.E. IN: 313.43 ~ 30"
I.E. OUT: 313.10 ~ 30"

STORM DRAIN LINE - A

FUTURE PARKING

ACCESS DRIVE

INTERIM VILLAGE

TEMPORARY SEDIMENT BASIN
MINIMUM BOTTOM AREA 748 S.F.
MINIMUM SEDIMENT VOLUME 12 C.F.
MINIMUM FLOW VOLUME 4,335 C.F.
TOTAL VOLUME REQ. 4,347 C.F.

313.50 BASIN

4' C.O. TYPE A-4
STA: 24+76.97 @ −11.00LT
RIM EL: 319.04
I.E. IN: 309.97 ~ 36"
I.E. OUT: 309.64 ~ 36"

STORM DRAIN LINE - A-03

TEMP CORRUGATED STEEL RISER MODIFIED PER D-16
SD STA: 4+01.51 @ 0.00
RIM EL: 317.00
I.E. OUT: 311.49 ~ 30"

4' C.O. TYPE A-4 WITH TYPE-F OPG. EA. SIDE
SD STA: 1+98.24 @ 0.00
RIM EL: 316.41
I.E. IN: 309.50 ~ 30"
I.E. OUT: 309.17 ~ 36"

199.21' of 30" @ 1.00%

22.25' of 36" @ 1.00%

237.80' of 36" @ 1.00%

D-2 C.I. TYPE B-1 ~ L=9'
SD STA: 1+72.00 @ 0.00
RIM EL: 317.21
I.E. IN: 308.95 ~ 36"
I.E. OUT: 308.62 ~ 36"

291.64' of 36" @ 1.00%

299.44 IE

33.17' of 18" @ 1.00%

D-2 C.I. TYPE B-1 ~ L=9'
STA: 27+31.21 @ −26.17LT
RIM EL: 316.69
I.E. IN: 307.70 ~ 36"
I.E. OUT: 307.37 ~ 36"

11.17' of 36" @ 1.00%

4' C.O. TYPE A-4
STA: 27+31.21 @ −11.00LT
RIM EL: 316.50
I.E. IN: 307.26 ~ 36"
I.E. IN: 307.26 ~ 18"
I.E. IN: 307.26 ~ 36"
I.E. OUT: 306.93 ~ 36"

D-2 C.I. TYPE B-1 ~ L=9'
STA: 27+31.21 @ 26.17RT
RIM EL: 316.69
I.E. OUT: 307.59 ~ 18"

APN# 108-120-55

FUTURE PARKING

STORM DRAIN LINE - A

D-2 C.I. TYPE B-1 ~ L=7'
STA: 29+44.37 @ −26.17LT
RIM EL: 314.55
I.E. IN: 305.26 ~ 18"
I.E. OUT: 304.93 ~ 18"

STORM DRAIN LINE - A-04

D-8 C.B. TYPE G1
STA: 29+44.37 @ −46.46LT
RIM EL: 312.61
I.E. OUT: 305.43 ~ 18"

D-2 C.I. TYPE B-1 ~ L=7'
STA: 29+44.37 @ 26.17RT
RIM EL: 316.88
I.E. OUT: 305.15 ~ 18"

101.29' of 36" @ 1.00%

17.33' of 18" @ 1.00%

32.67' of 18" @ 1.00%

10.67' of 18" @ 1.00%

5' C.O. TYPE A-5
STA: 29+44.37 @ −11.00LT
RIM EL: 314.37
I.E. IN: 304.82 ~ 36"
I.E. IN: 304.82 ~ 18"
I.E. IN: 304.82 ~ 18"
I.E. OUT: 304.49 ~ 48"

174.24' of 48" @ 1.33%

PHASE 1 CAMPUS

EX. 18" PVC STORM DRAIN PER CC-4718

EX. 16" CMLAC WATER PER CC-4718

EX. 24" PVC STORM DRAIN PER CC-4718

EX. 8" PVC C-900 SEWER

EX. 8" PVC STORM DRAIN PER CC-4718

EX. 10" RECYCLED WATER PVC CL0250

S-4 SMH # 26
315.88 IE IN
315.68 IE OUT

S-5 SMH # 25
297.66 IE IN
297.46 IE OUT

S-4 SMH # 24
296.91 IE IN
296.81 IE OUT

EX. 16" CMLAC WATER PER CC-4718

EX. 10" RECYCLED WATER PVC CL0250

EX. 10" PVC C-900 SEWER

HORSE RANCH CREEK ROAD

ESCONDIDO FREEWAY - I-15

SCALE IN FEET
GRAPHIC SCALE
1"=30'
30 15 0 30 60 90

N

KEYNOTES

LEGEND

- PROPERTY BOUNDARY
- EASEMENT
- RIGHT OF WAY
- POINT OF TANGENCY
- CENTERLINE
- FUTURE CURB / DWY
- LIMITS OF GRADING
- TOP / TOE OF SLOPE
- DAYLIGHT LINE
- CUT / FILL SLOPE DART
- HDPE S.D. SIZE PER PLAN
- S.D. HEADWALL PER PLAN
- TYPE F C.B.
- TYPE B C.I.
- TYPE A C.O.
- TYPE G C.B. PER PLAN
- MOD. RISER PER D-16
- RIPRAP PER PLAN
- D-75 BROW DITCH
- EXISTING EASEMENT
- EXISTING ELECTRICAL
- EXISTING TELEPHONE
- EXISTING GAS
- EXISTING SEWER
- EX SEWER APPURT'S
- EXISTING WATER
- EX WATER APPURT'S
- EXISTING STORM DRAIN
- EX S.D. APPURT'S
- EXISTING REC. WATER

NOTES

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Key Plan

Consultant Seal
REGISTERED PROFESSIONAL ENGINEER
ROBERT D. AMARO
No. C081699
Exp. 03/31/18
CIVIL
STATE OF CALIFORNIA

Agency Approval FILE NO.
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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ACS ____ FLS ____ SSS ____
DATE ____

Project Title
PALOMAR COLLEGE
North Education Center
Palomar College
Fallbrook, CA 92003

No.	Description	Date
	DSA APPROVAL	07/19/2017
	DSA SUBMITAL	05/22/2017

Drawing Title:

ROUGH GRADING PLAN

Architect's Seal
LICENSED ARCHITECT
BRADLEY E. GLASBY
No. C-32437
REN. 02-28-19
STATE OF CALIFORNIA

Designed:	RD / DAM	Project No.	5015019
			MAI PN: 16249
Drawn:	DAM	Scale:	AS NOTED
QAQC	RD	Drawing No.	C1.4
Date:	Jul 18, 17		

DATE: Jul 18, 2017 @ 11:24am by: dmasson FILE: C:\Users\dmasson\appdata\local\temp\AcPublish_5916\16249-GP - C1.2 - C1.7.dwg

PLEASE RECYCLE

Project Status

MATCHLINE - SEE SHEET C1.4

SCALE IN FEET
GRAPHIC SCALE
1"=30'

Null Structure
STA: 31+18.56 @ -11.00LT
RIM EL: 312.62
I.E. IN: 302.18 ~ 48"
I.E. OUT: 302.18 ~ 48"

Null Structure
STA: 31+59.70 @ -11.00LT
RIM EL: 312.21
I.E. IN: 301.63 ~ 48"
I.E. OUT: 301.63 ~ 48"

FUTURE PARKING

TEMPORARY SEDIMENT BASIN
MINIMUM BOTTOM AREA 1,510 S.F.
MINIMUM SEDIMENT VOLUME 24 C.F.
MINIMUM FLOW VOLUME 8,772 Q.F.
TOTAL VOLUME REQ. 8,795 Q.F.

305.50 BASIN

TEMP CORRUGATED STEEL
RISER MODIFIED PER D-16
SD STA: 2+75.13 @ 0.00
RIM EL: 309.00
I.E. OUT: 302.03 ~ 30"

STORM DRAIN
LINE - A-05

34.67' of 18" @ 1.00%

D-2 C.I. TYPE B-1 ~ L=6'
STA: 33+36.71 @ -26.17LT
RIM EL: 313.28
I.E. IN: 299.77 ~ 30"
I.E. OUT: 299.44 ~ 30"

10.78' of 30" @ 1.00%

175.71' of 30" @ 1.00%

D-8 C.B. TYPE G1
STA: 33+36.71 @ -46.46LT
RIM EL: 309.56
I.E. IN: 300.27 ~ 30"
I.E. OUT: 299.94 ~ 30"

17.34' of 30" @ 1.00%

5' C.O. TYPE A-5
STA: 33+36.71 @ -11.00LT
RIM EL: 313.78
I.E. IN: 299.33 ~ 48"
I.E. IN: 299.33 ~ 30"
I.E. IN: 299.33 ~ 18"
I.E. OUT: 299.00 ~ 48"

TYPE B-1 ~ L=6'
36.71 @ 26.17RT
10.63
299.68 ~ 18"

ESCONDIDO FRE - I-15

ACCESS DRIVE

STORM DRAIN LINE - A

GRADE BREAK

FUTURE CAMPUS

Null Structure
STA: 35+62.68 @ -11.00LT
RIM = 308.18 FS
I.E. IN: 297.90 ~ 48"
I.E. OUT: 297.90 ~ 48"

D-2 C.I. TYPE B-1 ~ L=14'
STA: 37+48.69 @ -26.17LT
RIM EL: 306.51
I.E. IN: 297.42 ~ 30"
I.E. OUT: 297.09 ~ 30"

TEMP CORRUGATED STEEL
RISER MODIFIED PER D-16
STA: 37+48.69 @ -65.67LT
RIM EL: 303.00
I.E. OUT: 297.77 ~ 30"

TEMPORARY SEDIMENT BASIN
MINIMUM BOTTOM AREA 1,418 S.F.
MINIMUM SEDIMENT VOLUME 22 C.F.
MINIMUM FLOW VOLUME 8,211 C.F.
TOTAL VOLUME REQ. 8,222 C.F.

STORM DRAIN
LINE - A-06

5' C.O. TYPE A-5
STA: 37+48.69 @ -11.00LT
RIM EL: 306.33
I.E. IN: 296.98 ~ 48"
I.E. IN: 296.98 ~ 30"
I.E. OUT: 296.65 ~ 48"

301.00 BASIN

35.50' of 30" @ 1.00%

10.67' of 30" @ 1.00%

APN# 108-120-55

EX. 30" RCP STORM DRAIN PER CC-4718

S-4 SMH # 23
296.47 IE IN
296.37 IE OUT

EX. 18" PVC STORM DRAIN PER CC-4718

EX. 16" CMLC WATER PER CC-4718

HORSE RANCH CREEK ROAD

EX. 16" PVC C-900 SEWER

EX. 30" RCP STORM DRAIN PER CC-4718

S-4 SMH # 22
296.02 IE IN
295.92 IE OUT

EX. 18" PVC STORM DRAIN PER CC-4718

EX. 30" PVC STORM DRAIN PER CC-4718

(298.9± FL)

(300.0± FL)

MATCHLINE - SEE SHEET C1.6

KEYNOTES

LEGEND

- PROPERTY BOUNDARY
- EASEMENT
- RIGHT OF WAY
- POINT OF TANGENCY
- CENTERLINE
- FUTURE CURB / DWY
- LIMITS OF GRADING
- TOP / TOE OF SLOPE
- DAYLIGHT LINE
- CUT / FILL SLOPE DART
- HDPE S.D. SIZE PER PLAN
- S.D. HEADWALL PER PLAN
- TYPE F C.B.
- TYPE B C.I.
- TYPE A C.O.
- TYPE G C.B. PER PLAN
- MOD. RISER PER D-16
- RIPRAP PER PLAN
- D-75 BROW DITCH
- EXISTING EASEMENT
- EXISTING ELECTRICAL
- EXISTING TELEPHONE
- EXISTING GAS
- EXISTING SEWER
- EX SEWER APPURT'S
- EXISTING WATER
- EX WATER APPURT'S
- EXISTING STORM DRAIN
- EX S.D. APPURT'S
- EXISTING REC. WATER

NOTES

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3. WDID #_____

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Key Plan

Consultant Seal
REGISTERED PROFESSIONAL ENGINEER
ROBERT D. AMARO
No. C081699
Exp. 03/31/18
CIVIL
STATE OF CALIFORNIA

Agency Approval FILE NO.
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. ----
ACS ____ FLS ____ SSS ____
DATE ____

Project Title
PALOMAR COLLEGE
Learning for Success
North Education Center
Palomar College
-
Fallbrook, CA 92003

No.	Description	Date
	DSA APPROVAL	07/19/2017
	DSA SUBMITAL	05/22/2017

Drawing Title:

ROUGH GRADING PLAN

Architect's Seal
LICENSED ARCHITECT
BRADLEY E. GLASGOW
No. C-32437
REN. 02-28-19
STATE OF CALIFORNIA

Designed: RD / DAM	Project No. 5015019
Drawn: DAM	Scale: AS NOTED
QAQC RD	Drawing No. C1.5
Date: Jul 18, 17	

Project Status

DATE: Jul 18, 2017 @ 11:24am by: dmasson FILE: C:\Users\dmasson\appdata\local\temp\AcPublish_5916\16249-GP - C1.2 - C1.7.dwg

PLEASE RECYCLE

MATCHLINE - SEE SHEET C1.5

ESCONDIDO FREEWAY - I-15

D-2 C.I. TYPE B-2 ~ L=14'
STA: 38+59.28 @ 0.00
RIM EL: 307.90
I.E. OUT: 296.21 ~ 18"

STORM DRAIN LINE - A-07

8.50' of 18" @ 1.00%

5' C.O. TYPE A-5
STA: 38+59.28 @ -11.00LT
RIM EL: 305.55
I.E. IN: 296.12 ~ 48"
I.E. IN: 296.12 ~ 18"
I.E. OUT: 295.79 ~ 48"

106.09' of 48"

ACCESS DRIVE

STORM DRAIN LINE - A

317.41' of 48" @ 0.50%

1 TON RIP RAP
PER D-40 T=4.4'
Q100 = 189.7 cfs
15.1 fps

SD-HDWL WING TYPE PER D-35A
SD STA: 33+93.59 @ 0.00
RIM EL: 299.32
I.E. IN: 294.20 ~ 48"

294.00 BASIN

299.0 FG

289.52 IE

APN# 108-120-55

SEE BIORETENTION BASIN
DETAIL SHEET C1.2

TREATMENT AREA = 53,500 S.F.
BOT. AREA = 38,643 S.F.

299.8 FG

(292.44 FS)
MATCH EXIST.

(293.94 FS)
MATCH EXIST.

296.7 FG

(2) TYPE G-3 CATCH BASIN
PER D-08, D-13 AND D-15
RIM EL: 297.00
I.E. 290.75 ~ 42"

1/2 TON RIP RAP
PER D-40 T=3.5'
Q100 = 235.0 cfs
13.2 fps

(298.9± FL)

(300.0± FL)

EX. (2) 48

MATCHLINE - SEE SHEET C1.7

MATCHLINE - SEE SHEET C1.8

SCALE IN FEET
GRAPHIC SCALE
1"=30'

DATE: Jul 18, 2017 @ 11:24am by: dmasson FILE: C:\Users\dmasson\appdata\local\temp\AcPublish_5916\16249-GP - C1.2 - C1.7.dwg

PLEASE RECYCLE

Project Status

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T 909 989 9979 / www.hmcarchitects.com

KEYNOTES

(SM)

LEGEND

- PROPERTY BOUNDARY
- EASEMENT
- RIGHT OF WAY
- POINT OF TANGENCY
- CENTERLINE
- FUTURE CURB / DWY
- LIMITS OF GRADING
- TOP / TOE OF SLOPE
- DAYLIGHT LINE
- CUT / FILL
- SLOPE DART
- HDPE S.D. SIZE PER PLAN
- S.D. HEADWALL PER PLAN
- TYPE F C.B.
- TYPE B C.I.
- TYPE A C.O.
- TYPE G C.B. PER PLAN
- MOD. RISER PER D-16
- RIPRAP PER PLAN
- D-75 BROW DITCH
- EXISTING EASEMENT
- EXISTING ELECTRICAL
- EXISTING TELEPHONE
- EXISTING GAS
- EXISTING SEWER
- EX SEWER APPURT'S
- EXISTING WATER
- EX WATER APPURT'S
- EXISTING STORM DRAIN
- EX S.D. APPURT'S
- EXISTING REC. WATER

NOTES

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3. WDID #_____

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Planning ▲ Engineering ▲ Surveying
Solved.
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Key Plan

Consultant Seal

REGISTERED PROFESSIONAL ENGINEER
ROBERT D. AMARO
No. C081699
Exp. 03/31/18
CIVIL
STATE OF CALIFORNIA

Agency Approval FILE NO.

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Project Title

PALOMAR COLLEGE
Learning for Success

North Education Center
Palomar College
-
Fallbrook, CA 92003

No.	Description	Date
	DSA APPROVAL	07/19/2017
	DSA SUBMITAL	05/22/2017

Drawing Title:

ROUGH GRADING PLAN

Architect's Seal

LICENSED ARCHITECT
BRADLEY E. GLASSOCK
No. C-32437
REN. 02-28-19
STATE OF CALIFORNIA

Designed: RD / DAM	Project No. 5015019 MAI PN: 16249
Drawn: DAM	Scale: AS NOTED
QAQC: RD	Drawing No. C1.6
Date: Jul 18, 17	

MATCHLINE - SEE SHEET C1.5

MATCHLINE - SEE SHEET C1.6

MATCHLINE - SEE SHEET C1.8

30 15 0 30 60 90
SCALE IN FEET
GRAPHIC SCALE
1"=30'

HMC Architects
3546 Concours Street / Ontario, CA 91764
T 909 989 9979 / www.hmcarchitects.com

KEYNOTES

LEGEND

- PROPERTY BOUNDARY
- EASEMENT
- RIGHT OF WAY
- POINT OF TANGENCY
- CENTERLINE
- FUTURE CURB / DWY
- LIMITS OF GRADING
- TOP / TOE OF SLOPE
- DAYLIGHT LINE
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- HDPE S.D. SIZE PER PLAN
- S.D. HEADWALL PER PLAN
- TYPE F C.B.
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- TYPE A C.O.
- TYPE G C.B. PER PLAN
- MOD. RISER PER D-16
- RIPRAP PER PLAN
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- EXISTING EASEMENT
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- EXISTING SEWER
- EX SEWER APPURT'S
- EXISTING WATER
- EX WATER APPURT'S
- EXISTING STORM DRAIN
- EX S.D. APPURT'S
- EXISTING REC. WATER

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Key Plan

Consultant Seal

REGISTERED PROFESSIONAL ENGINEER
ROBERT D. RAMOS
No. C081699
Exp. 03/31/18
CIVIL
STATE OF CALIFORNIA

Agency Approval FILE NO.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. ----
ACS ____ FLS ____ SSS ____
DATE ____

Project Title

PALOMAR COLLEGE
Learning for Success

North Education Center
Palomar College
-
Fallbrook, CA 92003

No.	Description	Date
	DSA APPROVAL	07/19/2017
	DSA SUBMITAL	05/22/2017

Drawing Title:

ROUGH GRADING PLAN

Architect's Seal

LICENSED ARCHITECT
BRADLEY E. GLASER
No. C-32437
REN. 02-28-19
STATE OF CALIFORNIA

Designed: RD / DAM	Project No. 5015019
	MAI PN: 16249
Drawn: DAM	Scale: AS NOTED
QAQC RD	Drawing No. C1.7
Date: Jul 18, 17	

DATE: Jul 18, 2017 @ 11:25am by: dmasson FILE: C:\Users\dmasson\appdata\local\temp\AcPublish_5916\16249-GP - C1.2 - C1.7.dwg

PLEASE RECYCLE

Project Status

MATCHLINE - SEE SHEET C1.6

MATCHLINE - SEE SHEET C1.7

299.0 FG

294.00 BASIN

(2) TYPE C-3 CATCH BASIN
PER D-08, D-13 AND D-15
RIM EL:297.00
I.E. 290.75 ~ 42"

1/2 TON RIP RAP
PER D-40 T=3.5'
Q100 = 235.0 cfs
13.2 fps

WING & U TYPE HDWL DBL PIPE
PER D-35A AND 66D D-35B
RIM EL:295.00
I.E. 290.00 ~ (2) 42"

295.0 FG

(290.0± FS)
MATCH EXIST.

(288.8± FS)
MATCH EXIST.

296.7 FG

(293.0± FS)
MATCH EXIST.

APN# 108-120-55

TEMPORARY SEDIMENT BASIN
MINIMUM BOTTOM AREA 945 S.F.
MINIMUM SEDIMENT VOLUME 132 S.F.
MINIMUM FLOW VOLUME 5,457 C.F.
TOTAL VOLUME REQ. 5,589 C.F.

TEMP CORRUGATED STEEL
RISER MODIFIED PER D-16
RIM EL:291.00
I.E. 284.98 ~ 18"

287.70 BASIN

292.0 FG

(284.5± FS)
MATCH EXIST.

(283.5± FS)
MATCH EXIST.

1/2 TON RIP RAP
PER D-40 T=3.5'
Q100 = 23.5 cfs
13.3 fps

30 15 0 30 60 90
SCALE IN FEET
GRAPHIC SCALE
1"=30'

N

LEGEND

- PROPERTY BOUNDARY
- EASEMENT
- RIGHT OF WAY
- POINT OF TANGENCY
- CENTERLINE
- FUTURE CURB / DWY
- LIMITS OF GRADING
- TOP / TOE OF SLOPE
- DAYLIGHT LINE
- CUT / FILL SLOPE DART
- HDPE S.D. SIZE PER PLAN
- S.D. HEADWALL PER PLAN
- TYPE F C.B.
- TYPE B C.I.
- TYPE A C.O.
- TYPE G C.B. PER PLAN
- MOD. RISER PER D-16
- RIPRAP PER PLAN
- D-75 BROW DITCH
- EXISTING EASEMENT
- EXISTING ELECTRICAL
- EXISTING TELEPHONE
- EXISTING GAS
- EXISTING SEWER
- EX SEWER APPURT'S
- EXISTING WATER
- EX WATER APPURT'S
- EXISTING STORM DRAIN
- EX S.D. APPURT'S
- EXISTING REC. WATER

NOTES

1. CONTOURS AND ELEVATIONS SHOWN IN FUTURE ROADS ARE TO FINISHED GRADE. SUB-GRADE PER SOILS REPORT AND STREET SECTION ON PAGE 1.
2. BENCHMARK USED IS SDGPS 3 FROM COUNTY OF SAN DIEGO CONTROL DATA SHEET ELV.=306.01 NAV29
3. WDID #_____

HMC Architects
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Consultant
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Solved.
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Key Plan

Consultant Seal
REGISTERED PROFESSIONAL ENGINEER
ROBERT D. MASSON
No. C081699
Exp. 03/31/18
CIVIL
STATE OF CALIFORNIA

Agency Approval FILE NO.
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. ----
ACS ____ FLS ____ SSS ____
DATE ____

Project Title
PALOMAR COLLEGE
Learning for Success
North Education Center
Palomar College
-
Fallbrook, CA 92003

No.	Description	Date
	DSA APPROVAL	07/19/2017
	DSA SUBMITAL	05/22/2017

Drawing Title:

ROUGH GRADING PLAN

Architect's Seal
LICENSED ARCHITECT
BRADLEY E. GLASER
No. C-32437
REN. 02-29-19
STATE OF CALIFORNIA

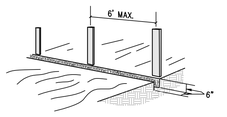
Designed: RD / DAM	Project No. 5015019
	MAI PN: 16249
Drawn: DAM	Scale: AS NOTED
QAQC RD	Drawing No. C1.8
Date: Jul 18, 17	

DATE: Jul 18, 2017 @ 11:25am by: dmasson FILE: C:\Users\dmasson\appdata\local\temp\AcPublish_5916\16249-GP - C1.2 - C1.7.dwg

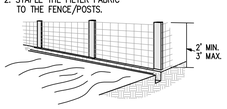
PLEASE RECYCLE

Project Status

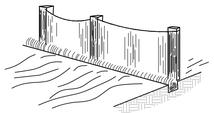
1. SET POSTS AND EXCAVATE A 6 INCH BY 6 INCH TRENCH UPSLOPE FROM AND ALONG THE LINE OF POSTS



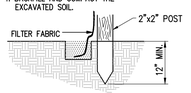
2. STAPLE THE FILTER FABRIC TO THE FENCE/POSTS.



3. EXTEND THE FILTER FABRIC INTO THE 6" x 6" TRENCH.



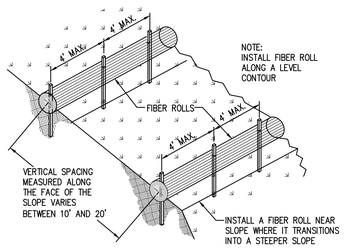
4. BACKFILL AND COMPACT THE EXCAVATED SOIL.



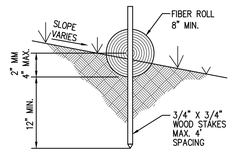
NOTE:
THE SILT FENCE SHOULD BE SUPPORTED BY A WIRE MESH IF THE FILTER FABRIC DOES NOT HAVE SUFFICIENT STRENGTH AND BURSTING STRENGTH CHARACTERISTICS (AS RECOMMENDED BY THE FABRIC MANUFACTURER)

SILT FENCE

N.T.S. / SE-1



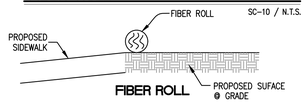
TYPICAL FIBER ROLL INSTALLATION



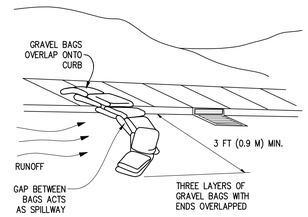
ENTRENCHMENT DETAIL

FIBER ROLL

SC-10 / N.T.S.



FIBER ROLL

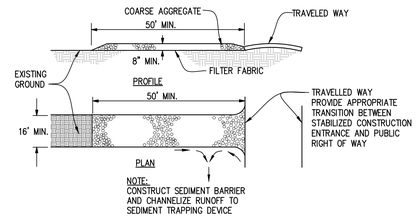


GRAVEL BAGS "CHEVRON"

N.T.S. / SE-8

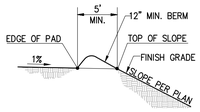
GRAVEL BAG NOTES

1. GRAVEL BAGS SHALL BE PLACED ALONG ALL STREET AND DRIVEWAYS BASED UPON THE FOLLOWING FORMULA:
   GRAVEL BAS SPACING (FEET) = 1.5'/STREET SLOPE
   EXAMPLE: 12.0% STREET 1.5'/0.12 = 12.5' SPACING
2. CONTRACTOR SHALL ASSUME RESPONSIBILITY TO PLACE ANY ADDITIONAL GRAVEL BAGS AS NECESSARY TO PREVENT SITE EROSION.
3. SITE HOUSEKEEPING IS TO BE MAINTAINED ON A REGULAR BASIS SUCH AS REMOVING SILT FROM BASINS, ADJUSTING/REPLACING SAND BAGS AND ONGOING MATERIAL CLEANUP.



STABILIZED CONSTRUCTION ENTRANCE

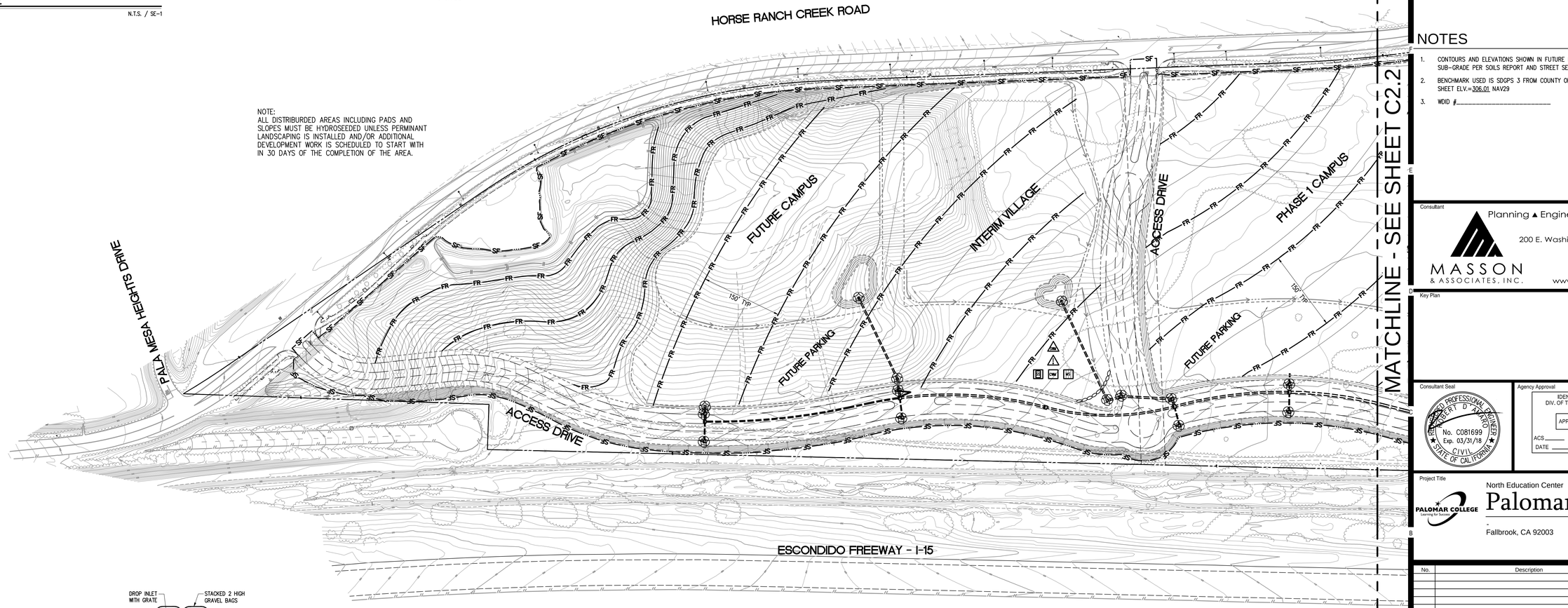
N.T.S. / TC-1

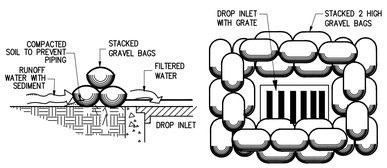


TYPICAL BERM-TOP OF ALL FILL SLOPES

N.T.S.

NOTE:
ALL DISTRIBURDED AREAS INCLUDING PADS AND SLOPES MUST BE HYDROSEEDED UNLESS PERMINANT LANDSCAPING IS INSTALLED AND/OR ADDITIONAL DEVELOPMENT WORK IS SCHEDULED TO START WITH IN 30 DAYS OF THE COMPLETION OF THE AREA.





CATCH BASIN & INLET PROTECTION

SE-10 / N.T.S.

80 40 0 80 160 240

SCALE IN FEET
GRAPHIC SCALE
1"=80'

MATCHLINE - SEE SHEET C2.2

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KEYNOTES

LEGEND:

SYMBOL	DESCRIPTION	DWG
	SILT FENCE	SE-1
	GRAVEL BAG BARRIER "CHEVRONS"	SE-8
SD	STORM DRAIN INLET PROTECTION	SE-10
	FIBER ROLLS	SE-5
	DRAINAGE SWALE & LINED DITCHES	EC-9
	STABILIZED CONSTRUCTION ENTRANCE	TC-1
MD	MATERIAL DELIVERY STORAGE	WM-1
SW	SOLID WASTE MANAGEMENT	WM-5
HW	HAZARDOUS WASTE MANAGEMENT	WM-6
CW	CONCRETE WASTE MANAGEMENT	WM-8
SW	SANITARY/SEPTIC WASTE MANAGEMENT	WM-9

NOTES

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3. WDID #_____

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200 E. Washington Ave., Suite 200
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Key Plan

Consultant Seal

REGISTERED PROFESSIONAL ENGINEER ROBERT D AMARO No. C081699 Exp. 03/31/18 CIVIL STATE OF CALIFORNIA

Agency Approval FILE NO. 37-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 4 - 116312
ACS ____ FLS ____ SSS ____
DATE ____

Project Title

PALOMAR COLLEGE Learning for Success

North Education Center
Palomar College
-
Fallbrook, CA 92003

No.	Description	Date
	DSA APPROVAL	07/19/2017
	DSA SUBMITAL	05/22/2017

Drawing Title:

EROSION CONTROL PLAN

Architect's Seal

LICENSED ARCHITECT Bradley E. Glaser No. C-32437 REN. 02-28-19 STATE OF CALIFORNIA

Designed: RD / DAM	Project No. 5015019 MAI PN: 16249
Drawn: DAM	Scale: AS NOTED
QAQC RD	Drawing No. C2.1
Date: Jul 18, 17	

Project Status

NOTE:
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80 40 0 80 160 240
SCALE IN FEET
GRAPHIC SCALE
1"=80'

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KEYNOTES

LEGEND:

SYMBOL	DESCRIPTION	DWG
	SILT FENCE	SE-1
	GRAVEL BAG BARRIER "CHEVRONS"	SE-8
	STORM DRAIN INLET PROTECTION	SE-10
	FIBER ROLLS	SE-5
	DRAINAGE SWALE & LINED DITCHES	EC-9
	STABILIZED CONSTRUCTION ENTRANCE	TC-1

NOTES

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Key Plan

Consultant Seal
REGISTERED PROFESSIONAL ENGINEER ROBERT D. AMARO No. C081699 Exp. 03/31/18 CIVIL STATE OF CALIFORNIA

Agency Approval FILE NO. 37-C1
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North Education Center
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-
Fallbrook, CA 92003

No.	Description	Date
	DSA APPROVAL	07/19/2017
	DSA SUBMITAL	05/22/2017

Drawing Title:
EROSION CONTROL PLAN

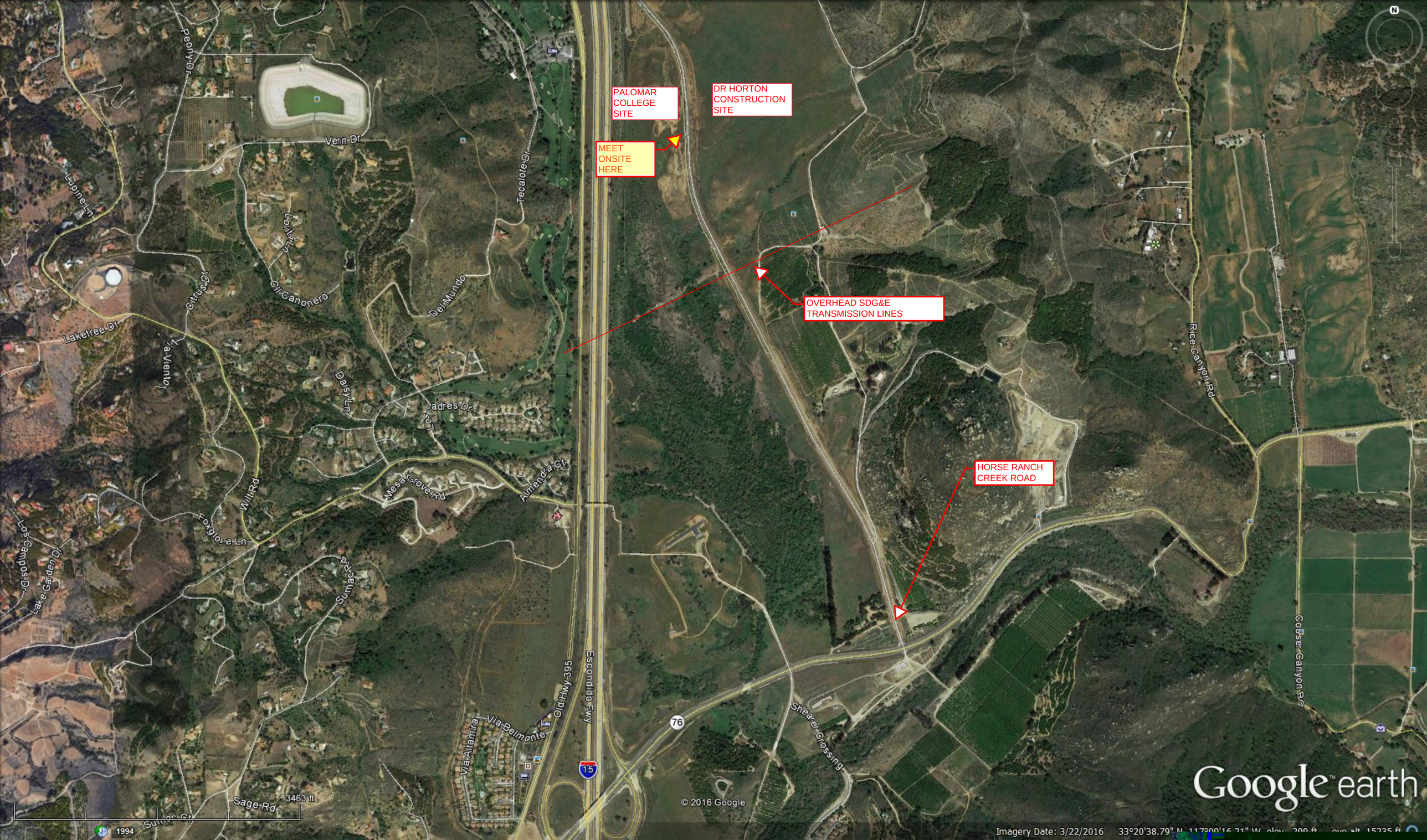
Architect's Seal
LICENSED ARCHITECT BRADLEY E. GRASER No. C-32437 REN. 02-28-19 STATE OF CALIFORNIA

Designed: RD / DAM	Project No. 5015019 MAI PN: 16249
Drawn: DAM	Scale: AS NOTED
QAQC: RD	Drawing No. C2.2
Date: Jul 18, 17	

DATE: Jul 18, 2017 @ 12:59pm by: dmasson FILE: I:\16\16249\PROD\Construct\Erosion Control\16249-EC.dwg

PLEASE RECYCLE

Project Status


PALOMAR COLLEGE SITE
DR HORTON CONSTRUCTION SITE
MEET ONSITE HERE
OVERHEAD SDG&E TRANSMISSION LINES
HORSE RANCH CREEK ROAD
Peony Dr
Vern Dr
Lupine Ln
Citrus Dr
Laketree Dr
Via Viento
Daisy Ln
Tecalote Dr
Del Mundo
Cll Canonero
Los Padres Dr
Mesa Grove Rd
Almendra Ct
Will Rd
Foxglove Ln
Sumac Rd
Lake Garden Dr
Old Hwy 395
Escondido Fwy
Via Alhama
Via Belmonte
Sage Rd
Shearer Crossing
Rice Canyon Rd
Couser Canyon Rd
76
15
3463 ft
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