

**GRADING NOTES**

- CALL THE CITY OF SAN MARCOS PUBLIC WORKS DEPARTMENT (760) 752-7550 24 HOURS BEFORE COMMENCEMENT OF WORK.
- IMPORTED MATERIAL SHALL BE OBTAINED FROM A LEGAL SITE.
- ALL CUT AND FILL SLOPES SHALL BE PLANTED WITH A MIXTURE OF TREES, SHRUBS, AND GROUND COVER TO CONTROL EROSION. SLOPE LANDSCAPING SHALL BE INSTALLED AS SOON AS PRACTICAL. IRRIGATION SYSTEMS ARE REQUIRED AND SHALL BE INSTALLED FOR PERPETUAL MAINTENANCE OF THE PLANT LIFE USED FOR SLOPE STABILIZATION IN ACCORDANCE WITH SECTION 17.32.170 OF THE CITY'S GRADING ORDINANCE.
- PRECISE LOCATIONS/ELEVATIONS OF THE EXISTING UNDERGROUND UTILITIES ARE NOT KNOWN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAKING SUFFICIENT EXPLORATIONS TO LOCATE ALL UTILITIES AND SUBSTRUCTURES WHETHER SHOWN ON THE PLANS OR NOT AND TO PROTECT THEM FROM ANY POSSIBLE DAMAGE PRIOR TO AND DURING CONSTRUCTION. THE EXPENSE OF REPAIR OR REPLACEMENT OF SAID UTILITIES AND SUBSTRUCTURES SHALL BE BORNE BY THE CONTRACTOR. CONTRACTOR SHALL NOTIFY THE ENGINEER-OF-WORK OF ANY POTENTIAL CONFLICTS SUFFICIENTLY IN TIME FOR CONSTRUCTION CHANGES TO BE MADE AND APPROVED.
- THE CONTRACTOR SHALL CONTACT THE UNDERGROUND SERVICE ALERT AT 1-800-422-4133 AT LEAST 48 HOURS PRIOR TO EXCAVATING TO VERIFY THE LOCATIONS OF UNDERGROUND FACILITIES OF THE FOLLOWING UTILITIES: PACIFIC BELL/SBC; SAN DIEGO GAS & ELECTRIC/SEMPRA; VALLECITOS WATER DISTRICT; COX COMMUNICATIONS OR ADELPHIA COMMUNICATIONS  
A DIG ALERT IDENTIFICATION NUMBER MUST BE ISSUED BEFORE A "PERMIT TO EXCAVATE" IS VALID PER GOVERNMENT CODE SECTION 4216/4217.
- APPROVAL OF THESE PLANS BY THE CITY DOES NOT AUTHORIZE ANY WORK OR GRADING TO BE PERFORMED UNTIL THE PROPERTY OWNER'S PERMISSION IS OBTAINED AND A VALID GRADING PERMIT HAS BEEN ISSUED.
- ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE OR RUNNING OF ANY EQUIPMENT SHALL BE LIMITED TO THE HOURS OF 7:00 A.M. TO 4:30 P.M., MONDAY THROUGH FRIDAY. NO WORK SHALL BE PERFORMED ON THE PREMISES ON SATURDAY, SUNDAY, OR HOLIDAYS.
- ALL MAJOR SLOPES SHALL BE SHAPED AND TRIMMED AS SHOWN ON THE PLANS AND ROUNDED INTO EXISTING SLOPES TO PRODUCE A CONTOURED TRANSITION FROM CUT OR FILL FACES TO NATURAL GROUND AND ABUTTING CUT OR FILL SLOPES. ALL STONES, ROOTS OR OTHER WASTE MATTER EXPOSED ON EXCAVATION OR EMBANKMENT SLOPES SHALL BE REMOVED AND DISPOSED OF OFF-SITE IN A LEGAL MANNER BY THE CONTRACTOR.
- NOTWITHSTANDING THE MINIMUM STANDARDS SET FORTH IN THE CITY'S GRADING ORDINANCE AND THE APPROVAL OF THESE GRADING PLANS, THE PERMITTEE IS RESPONSIBLE FOR THE PREVENTION OF DAMAGE TO ADJACENT PROPERTY. NO PERSON SHALL EXCAVATE ONLAND SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY 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 CITY WILL HOLD THE PERMITTEE RESPONSIBLE FOR CORRECTION OF NON-DEDICATED IMPROVEMENTS, WHICH CAUSE DAMAGE TO ADJACENT PROPERTY.
- THE ENGINEER-OF-WORK SHALL BE NOTIFIED WHEN CONSTRUCTION COMMENCES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION/GRADING OF SLOPES, PADS, STREET GRADES AND INFRASTRUCTURE IMPROVEMENTS ACCORDING TO THESE PLANS. THE ENGINEER-OF-WORK SHALL BE CONTACTED WHEN CHANGES OR ADDITIONS MADE DURING THE PROGRESS OF CONSTRUCTION OR IF THERE IS A MISUNDERSTANDING OF THESE PLANS OR FIELD STAKES AND AN INTERPRETATION IS NEEDED. CERTIFICATION FROM THE REGISTERED CIVIL ENGINEER STATING THAT THE GRADING HAS BEEN COMPLETED PER THE APPROVED PLAN, AND THE COMPACTION REPORT FROM THE GEOTECHNICAL ENGINEER ON ANY REQUIRED FILL AREAS SHALL BE PROVIDED PRIOR TO BUILDING PERMITS BEING ISSUED.
- MINIMUM 90% COMPACTION IS REQUIRED IN ALL ON-SITE FILL AREAS WITH A MINIMUM OF 95% COMPACTION SIX INCHES (6") BELOW FINISHED SUBGRADE IN A PUBLIC STREET.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ANY MONUMENTATION AND/OR BENCHMARKS. ANY MONUMENTATION AND/OR BENCHMARKS, WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SUCH POINTS SHALL BE REFERENCED AND REPLACED WITH APPROPRIATE MONUMENTATION BY A LICENSED LAND SURVEYOR OR A REGISTERED CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED BY THE LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER AS REQUIRED BY THE LAND SURVEYOR'S ACT.
- DUST CONTROL MEASURES, SUCH AS THE PERIODIC WETTING DOWN OF THE BARE AND EXPOSED AREAS, SHALL BE UTILIZED AT ALL TIMES DURING CONSTRUCTION TO THE SATISFACTION OF THE PUBLIC WORKS AND/OR BUILDING INSPECTORS.
- ALL WORK SHOWN ON THESE PLANS TO BE COMPLETED IN ACCORDANCE WITH CITY GRADING ORDINANCE CHAPTER 17.32.
- ALL GRADING SHALL BE SUPERVISED BY AN INDIVIDUAL APPROPRIATELY LICENSED UNDER THE BUSINESS AND PROFESSIONS CODE.
- THE CONTRACTOR IS ADVISED THAT HE IS RESPONSIBLE FOR MAINTAINING THE ADJOINING PUBLIC STREETS AND RIGHTS-OF-WAY IN A CLEAN AND DUST FREE CONDITION WITHIN THE LIMITATION OF THE CITY MUNICIPAL CODE SECTION 14.15.030 "LILICIT DISCHARGES PROHIBITED." THIS SECTION OF THE CODE PROHIBITS THE "WASHING DOWN" OF A STREET INTO A PUBLIC STORM DRAIN. THE CONTINUOUS USE OF STREET SWEEPING MACHINES MAY BE ADVISABLE.
- THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUALLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER, THE ENGINEER AND THE CITY HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, ENGINEER OR CITY.
- A PERMIT MUST BE OBTAINED FROM THE SAN MARCOS FIRE DEPARTMENT PRIOR TO ANY BLASTING. SEPARATE CITY PERMITS ARE REQUIRED PRIOR TO ANY CONSTRUCTION, EXCAVATION, STORAGE OF MATERIALS OR ANY OTHER ENCROACHMENTS.
- A CONSTRUCTION, EXCAVATION OR ENCROACHMENT PERMIT WILL BE REQUIRED FOR ANY WORK WITHIN THE CITY RIGHT-OF-WAY.
- ADA ACCESSIBLE PARKING SPACE(S) SHALL HAVE A MAXIMUM SLOPE NOT EXCEEDING 2% IN ANY DIRECTION.
- FIRE HYDRANTS SHALL BE AS FOLLOWS:  
- RESIDENTIAL "SINGLE FAMILY DETACHED DWELLINGS" JONES 3700 OR CLOW 2050, ONE 4" AND ONE 2.5" OUTLETS  
- MULTI-RESIDENTIAL, COMMERCIAL AND INDUSTRIAL: JONES 3775 OR CLOW 2065, TWO 4" AND ONE 2.5" OUTLETS
- ALL PUBLIC WATER AND SEWER SHALL BE INSPECTED BY VALLECITOS WATER DISTRICT. ALL PRIVATE WATER AND SEWER LINES SHALL BE INSPECTED BY THE CITY OF SAN MARCOS BUILDING DIVISION.
- SOILS ENGINEER TO INSURE STABILITY OF WALL EXCAVATION.
- PUBLIC WORKS SHALL INSPECT ALL STORM DRAINS EXCEPT FOR PRIVATE STORM DRAINS 12" OR LESS IN DIAMETER. FOR THESE STORM DRAINS, THE DEVELOPER SHALL PROVIDE INSPECTION RECORDS TO PUBLIC WORKS VALIDATING PROPER INSTALLATION.

**VALLECITOS WATER DISTRICT GENERAL NOTES**

- WATER LINES SHALL HAVE A MINIMUM COVER OF 36 INCHES. SEWER LINES SHALL HAVE A MINIMUM COVER OF 5 SHEET.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES 48 HOURS PRIOR TO CONSTRUCTION. A VALID UNDERGROUND SERVICE ALERT TICKET SHALL BE ON FILE.  
VALLECITOS WATER DISTRICT..... 1-760-744-0460  
COX COMMUNICATIONS..... 1-800-227-2600  
SDG&E..... 1-800-227-2600  
PACIFIC BELL..... 1-800-227-2600  
UNDERGROUND SERVICE ALERT..... 1-800-227-2600
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL SUBSTRUCTURES, WHETHER SHOWN ON THE PLANS OR NOT, AND PROTECT THEM FROM DAMAGE. THE ACTUAL LOCATION AND DEPTH OF ALL EXISTING WATER AND SEWER LINES IS TO BE VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCY IS TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF WORK FOR CORRECTION AND THEN SUBMITTED TO THE DISTRICT FOR APPROVAL.
- NEITHER THE ENGINEER, OWNER NOR THE VALLECITOS WATER DISTRICT SHALL BE RESPONSIBLE FOR THE ENFORCEMENT OF SAFETY STANDARDS.
- A PRECONSTRUCTION CONFERENCE MEETING SHALL BE HELD A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO CONSTRUCTION.

**CAMPUS POINTE MEDICAL CENTRE  
PRECISE GRADING PLANS**

**VALLECITOS WATER DISTRICT GENERAL NOTES (CONT.):**

- A SIGNED SET OF PLANS DOES NOT IMPLY THAT CONSTRUCTION MAY BEGIN. THE CONTRACTOR MUST CONTACT THE VALLECITOS WATER DISTRICT ENGINEERING DEPARTMENT TO CONFIRM.
- ALL WORK DONE IN OR NEAR VALLECITOS WATER DISTRICT FACILITIES SHALL BE DONE ACCORDING TO THE CURRENT STANDARD SPECIFICATIONS OF THE VALLECITOS WATER DISTRICT.
- PRIOR TO CROSSING EXISTING WATER OR SEWER FACILITIES, CONTRACTOR SHALL SUBMIT EQUIPMENT SPECIFICATIONS, WEIGHT AND DEFLECTION CALCULATIONS FOR APPROVAL.
- CONTRACTOR SHALL VERIFY AND REQUEST CONSTRUCTION WATER SOURCE AND AVAILABILITY PRIOR TO START OF GRADING.
- STATE HEALTH DEPARTMENT REQUIRES CERTIFIED BACKFLOW DEVICES ON ALL HARD PLUMBED CONNECTIONS TO DISTRICT CONSTRUCTION METERS.
- ACCESSING OR WORKING WITHIN VALLECITOS WATER DISTRICT EASEMENT REQUIRES INSPECTION.
- DISTRICT SHALL ASSIGN AN INSPECTOR FOR GRADING JOBS WHERE DISTRICT FACILITIES ARE IMPACTED.
- A BLASTING PLAN SHALL BE SUBMITTED FRO DISTRICT APPROVAL PRIOR TO THE USE OF EXPLOSIVES NEAR DISTRICT FACILITIES.

**LEGAL DESCRIPTION:**

**PARCEL A:** AP.N. # 220-201-02 ALL OF LOT TWENTY TWO (22) AND LOT TWENTY ONE (21), EXCEPT THE WESTERLY 100 FEET THEREOF, ALL IN BLOCK 58 OF RANCHO LOS VALLECITOS DE SAN MARCOS, IN THE COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO MAP THEREOF NO. 806, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, DECEMBER 21, 1895; EXCEPTING THEREFROM THAT PORTION CONVEYED TO THE STATE OF CALIFORNIA BY DEED RECORDED APRIL 11, 1960 AS FILE NO. 74130.

**PARCEL B:** A.P.N. # 220-201-01 THE WESTERLY 100 FEET OF LOT TWENTY ONE (21) BLOCK 58 OF RANCHO LOS VALLECITOS DE SAN MARCOS, ACCORDING TO THE MAP THEREOF NO. 806, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, DECEMBER 21, 1895. EXCEPTING THEREFROM THAT PORTION CONVEYED TO THE STATE OF CALIFORNIA BY DEED RECORDED APRIL 11, 1960, AS FILE NO 74130.

**SOILS ENGINEER'S CERTIFICATE:**

THESE PLANS HAVE BEEN REVIEWED BY THE UNDERSIGNED RELATIVE TO GEOTECHNICAL OF THE FINDINGS AND RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORT ENTITLED ASPECTS OF THE PLANS AND HAVE BEEN FOUND TO BE IN CONFORMANCE WITH INTENTIONS PREPARED BY ROBERT PRATER ASSOCIATES AND SIGNED BY WM. D. HESPELER, G.E. AND "GEOTECHNICAL INVESTIGATION FOR LIGHT INDUSTRIAL BUILDING" DATED MARCH 1999, AND JAMES J. BARTON, C.E.G., PROJECT NO. 546-6, AND UPDATE LETTER DATED DECEMBER 2005.

SIGNED: \_\_\_\_\_

G.E. NO.: \_\_\_\_\_ EXP. DATE \_\_\_\_\_

**SOURCE OF TOPOGRAPHIC MAPPING**

THE PLANIMETRIC AND TOPOGRAPHIC FEATURES SHOWN HEREON WERE COMPILED FROM A COMBINATION OF THE AERIAL PHOTOGRAMMETRIC MAPPING PREPARED BY PHOTO GEODETIC CORPORATION DATED FEBRUARY 12, 1998, JOB #982345, AND GROUND FIELD SURVEYS PERFORMED BY POUNTNEY & ASSOCIATES, INC. DATED FEBRUARY 19 & 23, 1998 AND IN MARCH OF 2000.

**BASIS OF BEARINGS**

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CALIFORNIA COORDINATE SYSTEM NAD'83, ZONE 6, AS DETERMINED LOCALLY BY THE LINE BETWEEN CITY OF SAN MARCOS CONTROL MONUMENT "SMVCO38", (PT.#1038 ON RO 13928) AND CALIFORNIA DEPARTMENT OF TRANSPORTATION MONUMENT "78-12.9 1988", (PT. #1130 ON ROS 13928), I.E. N87°44'19"W. SAID BEARING AND THE BEARINGS SHOWN HEREON ARE IN TERMS REFERENCE MAPS OR DEEDS MAY OR MAY NOT BE IN TERMS OF SAID SYSTEM. OF THE CALIFORNIA COORDINATE SYSTEM NAD'83, ZONE 6.

**HYDROLOGY/HYDRAULIC REPORT**

A COPY OF THE APPROVED HYDROLOGY/HYDRAULIC STUDY FOR THIS PROJECT IS ON FILE WITH THE CITY OF SAN MARCOS ENGINEERING DIVISION. THIS REPORT IS TITLED "HYDROLOGY/HYDRAULICS" STUDY FOR PROPOSED CAMPUS POINTE MEDICAL CENTRE DATED MAY 23, 2008, JOB NO. 060525, AS PREPARED BY LANG ENGINEERING COMPANY.

**SITE ADDRESS:**

337 EAST CARMEL STREET  
SAN MARCOS, CA 92069

**EARTHWORK QUANTITIES:**

CUT 33,265 C.Y.  
FILL 19,828 C.Y.  
EXPORT 13,437 C.Y.

**ASSESSOR'S PARCEL NUMBER:**

220-201-01 & 02

**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 THIS 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 PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN MARCOS IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME AS ENGINEER OF WORK OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

ENGINEER OF WORK:

LANG ENGINEERING COMPANY  
6110 INNOVATION WAY  
CARLSBAD, CA 92009  
(760) 692-1950



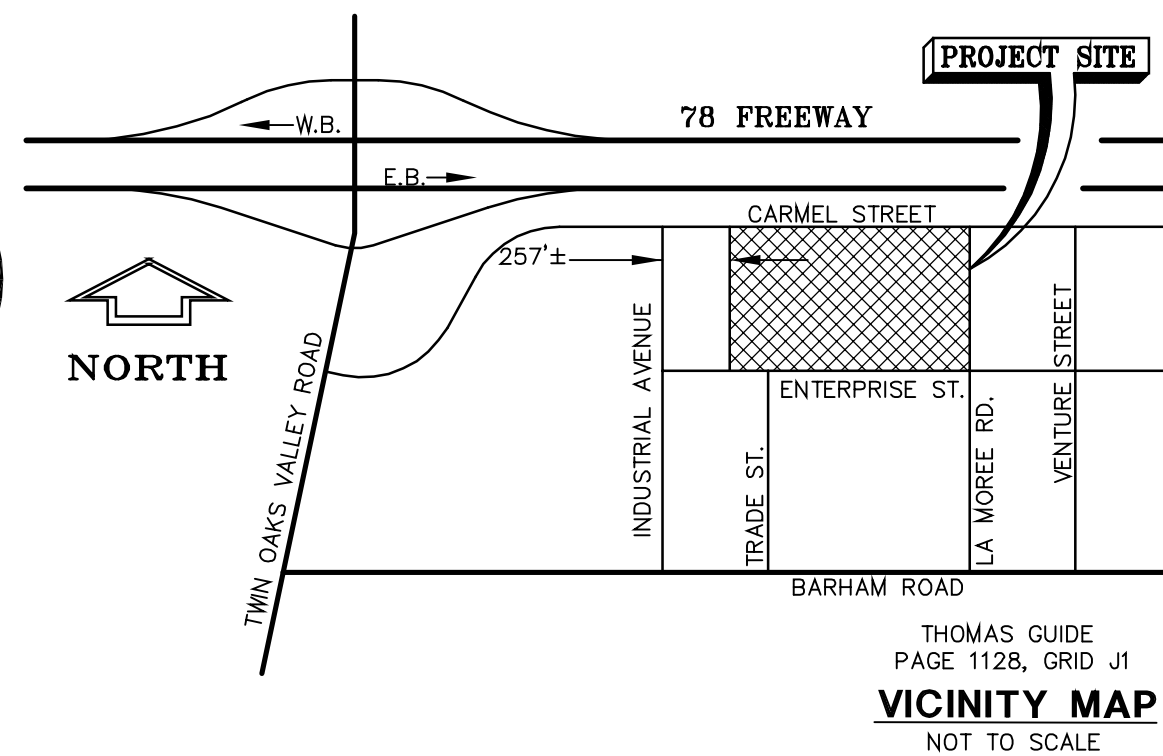
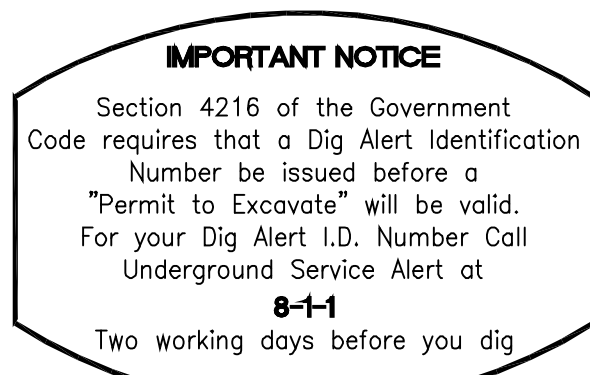
RICHARD G. LANG, R.C.E. 39016 DATE  
REGISTRATION EXPIRES, MARCH 31, 2009

**OWNER/PERMITTEE:**

CARMEL, LLC, c/o ELKINS-ZIRPOLO, INC.  
Attn: ALEXANDER ZIRPOLO  
2150 FIRST AVENUE  
SAN DIEGO, CA 92101  
(619)239-3434

I HEREBY CERTIFY THAT A REGISTERED SOILS ENGINEER OR GEOLOGIST HAS BEEN OR WILL BE RETAINED TO SUPERVISE OVER ALL GRADING ACTIVITY AND ADVISE ON THE COMPACTION AND STABILITY OF THE SITE.

ALEXANDER ZIRPOLO, MANAGING MEMBER DATE



INSPECTED AND RECOMMENDED FOR ACCEPTANCE  
Public Works Inspector Date

**WORK TO BE DONE:**

- THE GRADING CONSISTS OF THE FOLLOWING WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING DOCUMENTS:
- SAN DIEGO AREA REGIONAL STANDARD DRAWINGS
  - STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ("GREEN BOOK")
  - CITY OF SAN MARCOS GRADING AND EXCAVATION ORDINANCE
  - STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD PLANS
  - STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD SPECIFICATIONS
  - STATE OF CALIFORNIA TRAFFIC CONTROL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
  - VALLECITOS WATER DISTRICT STANDARD DRAWINGS AND SPECIFICATIONS ANY CHANGES OR REVISIONS THEREFROM SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION.

**LEGEND**

DESCRIPTION	REGIONAL STD. DWG.	SYMBOL	QUANTITY
EXISTING LOT LINE			
EXISTING CONTOUR			
EXIST. CURB AND GUTTER/EDGE OF PAVEMENT			
EXIST. WATER LINE			
EXIST. SEWER LINE			
EXIST. STORM DRAIN			
EXIST. JOINT UTILITY TRENCH (ELECT., GAS, PHONE, CABLE)			
EXISTING STREET LIGHT			
PROJECT BOUNDARY			
PROPOSED SLOPE	2:1 MAX. (H:V)		
PROPOSED CONTOUR			
PROPOSED SPOT ELEVATION			
RIDGE LINE			
PRIVATE 6" CURB	G-1		5,838 L.F.
PRIVATE 6" CURB AND GUTTER, TYPE "G"	G-2		1,210 L.F.
PRIVATE CONCRETE SIDEWALK	G-7, G-9		6,464 S.F.
3' WIDE CONCRETE SWALE	(E 5)		1,784 L.F.
PRIVATE 6" PERFORATED SUBDRAIN	D-60		145 L.F.
PRIVATE 6" PVC STORM DRAIN	D-60		137 L.F.
PRIVATE 8" PVC STORM DRAIN	D-60		86 L.F.
PRIVATE 12" HDPE STORM DRAIN	D-60		1,250 L.F.
PRIVATE 15" HDPE STORM DRAIN	D-60		170 L.F.
PRIVATE 18" HDPE STORM DRAIN	D-60		479 L.F.
PRIVATE 18" RCP STORM DRAIN	D-60		24 L.F.
PRIVATE 24" HDPE STORM DRAIN	D-60		355 L.F.
PRIVATE TYPE F CATCH BASIN	D-7		4 EACH
BROW DITCH, TYPE B	D-75		590 L.F.
PRIVATE 12" DRAIN BOX			3 EACH
PRIVATE 18" DRAIN BOX			6 EACH
PRIVATE TYPE I CATCH BASIN	D-29		7 EACH
PRIVATE TYPE "A" & "B" CURB INLETS	D-1 & D-2		5 EACH
PRIVATE CONCRETE LUG	D-63		4 EACH
PRIVATE TYPE "A" CLEANOUT	D-9		1 EACH
DIRECTION OF SURFACE FLOW			
PRIVATE 6" PVC SEWER	VWD S-12, SDR-35		145 L.F.
PRIVATE SEWER CLEANOUT	VWD S-7		3 EACH
PRIVATE 2" BACKFLOW PREVENTION DEVICE	VWD W-19		1 EACH
PRIVATE 6" PVC FIRE MAIN	VWD W-17, AWWA C900		344 L.F.
PRIVATE 8" PVC FIRE MAIN	VWD W-17, AWWA C900		1,227 L.F.
PRIVATE FIRE HYDRANT ASSEMBLY	VWD W-4, W-5		3 EACH
PRIVATE 6" GATE VALVE ASSEMBLY	VWD W-16		2 EACH
PRIVATE 8" GATE VALVE ASSEMBLY	VWD W-16		1 EACH
CONCRETE THRUST BLOCK	VWD W-15		13 EACH
2" AIR/VACUUM ASSEMBLY	VWD W-3		1 EACH
2" BLOWOFF ASSEMBLY	VWD W-1		2 EACH
AUTO PARKING/DRIVE LANES	SEE SHEET 7		47,713 S.F.
FIRE & TRUCK LANES	SEE SHEET 7		48,076 S.F.
PORTLAND CEMENT CONCRETE	SEE SHEET 7		3,524 S.F.
CONCRETE PAVERS	SEE SHEET 7		1,514 S.F.
SITE RETAINING WALL			16,830 S.F.
TRUNCATED DOMES	RSD G-30		
6" DECORATIVE FENCE	(D 6)		618 L.F.

**SHEET INDEX**

- SHEET 1 COVER SHEET
- SHEET 2 BMP NOTES/INDEX SHEET
- SHEET 3 PRECISE GRADING PLAN
- SHEET 4 PRECISE GRADING PLAN
- SHEET 5 SITE SECTIONS
- SHEET 6 SITE SECTIONS AND DETAILS
- SHEET 7 PAVEMENT SECTIONS
- SHEET 8 PRIVATE FIRE LINE PLAN/PROFILE
- SHEET 9 EROSION CONTROL PLAN
- SHEET 10 BMP/WATER QUALITY PLAN
- SHEET 11 PRIVATE STORM DRAIN PROFILES
- SHEET 12 RETAINING WALL STRUCTURAL NOTES
- SHEET 13 RETAINING WALL STRUCTURAL DETAILS
- SHEET 14 RETAINING WALL SITE PLAN
- SHEET 15 RETAINING WALL ELEVATIONS
- SHEET 16 RETAINING WALL ELEVATIONS
- SHEET 17 RETAINING WALL FOOTING/WALL DETAILS



SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT	ENGINEER OF WORK	CITY APPROVED CHANGES	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SAN MARCOS ENGINEERING DIVISION	City Drawing No.
By: Fire Marshal	By: _____	By: Richard G. Lang, P.E. R.C.E.: 39016 exp: 03/31/09	No. Description App'd By/Date	By: Sassan Haghgo, Deputy City Engineer R.C.E.: 42201 exp: 03/31/2010	By: Michael D. Edwards, City Engineer R.C.E.: 32977 exp: 06/30/2010	Description: Caltrans Monument "78-12.9 1988 CDH" 2 1/4" brass disc (PT. #1130 on Record of Survey 13928) Location: Brass disc in sidewalk at a point 66.7' south of the southwest corner of the Twin Oaks Valley Road bridge over Highway 78 Record From: Record of Survey 13928 Elev: 551.91 Datum: MSL	<b>GRADING PLANS &amp; PRIVATE UTILITY PLANS</b> <b>CAMPUS POINTE MEDICAL CENTRE</b> SDP 06-319 TFM 651	MF 1599 <b>GP-2407</b> Sheet 1 of 17 MAXIMO WO# 0815639

**FLOGARD+PLUS DRAINAGE INSERTS**

**SCOPE:**

Federal, State and Local Clean Water Act regulations and those of insurance carriers require that stormwater filtration systems be maintained and serviced on a recurring basis. The intent of the regulations is to ensure that the systems, on a continuing basis, efficiently remove pollutants from stormwater runoff thereby preventing pollution of the nation's water resources. These Specifications apply to the Flo-Gardm+Plus Catch Basin Insert Filter.

**RECOMMENDED FREQUENCY OF SERVICE:**

Drainage Protection Systems (DPS) recommends that installed Flo-Gardm+Plus Catch Basin Insert Filters be serviced on a recurring basis. Ultimately, the frequency depends on the amount of runoff, pollutant loading and interference from debris (leaves, vegetation, cans, paper, etc.); however, it is recommended that each installation be serviced a minimum of three times per year, with a change of filter medium once per year. DPS technicians are available to do an on-site evaluation, upon request.

**RECOMMENDED TIMING OF SERVICE:**

DPS guidelines for the timing of service are as follows:

1. For areas with a definite rainy season: Prior to, during and following the rainy season.
2. For areas subject to year-round rainfall: On a recurring basis (at least three times per year).
3. For areas with winter snow and summer rain: Prior to and just after the snow season and during the summer rain season.
4. For installed devices not subject to the elements (washracks, parking garages, etc.): On a recurring basis (no less than three times per year).

**SERVICE PROCEDURES:**

1. The service shall commence with collection and removal of sediment and debris (litter, leaves, papers, cans, etc.) and broom sweeping around the drainage inlet. Accumulated materials shall be placed in a DOT approved container for later disposal.
2. The catch basin shall be visually inspected for defects and possible illegal dumping. If illegal dumping has occurred, the proper authorities and property owner representative shall be notified as soon as practicable.
3. The catch basin grate shall be removed and set to one side. Using an industrial vacuum, the collected materials shall be removed from the liner. (Note: DPS uses a truck-mounted vacuum for servicing Flo-Gard m+Plus catch basin inserts.)
4. When all of the collected materials have been removed, the filter medium pouches shall be removed by unsnapping the tether from the D-ring and set to one side. The filter liner, gaskets, stainless steel frame and mounting brackets, etc. shall be inspected for continued serviceability. Minor damage or defects found shall be corrected on-the-spot and a notation made on the Maintenance Record. More extensive deficiencies that affect the efficiency of the filter (torn liner, etc.), if approved by the customer representative, will be corrected and an invoice submitted to the representative along with the Maintenance Record.
5. The filter medium pouches shall be inspected for defects and continued serviceability and replaced as necessary and the pouch tethers re-attached to the liner's D-ring.
6. The grate shall be replaced.

**EXCHANGE AND DISPOSAL OF EXPOSED FILTER MEDIUM AND COLLECTED DEBRIS**

The frequency of filter medium pouch exchange will be in accordance with the existing DPS-Customer Maintenance Contract. DPS recommends that the medium be changed at least once per year. During the appropriate service, or if so determined by the service technician during a non-scheduled service, the filter medium pouches will be replaced with new pouches and the exposed pouches placed in the DOT approved container, along with the exposed debris. Once the exposed pouches and debris have been placed in the container, DPS has possession and must dispose of it in accordance with local, state and federal agency requirements.

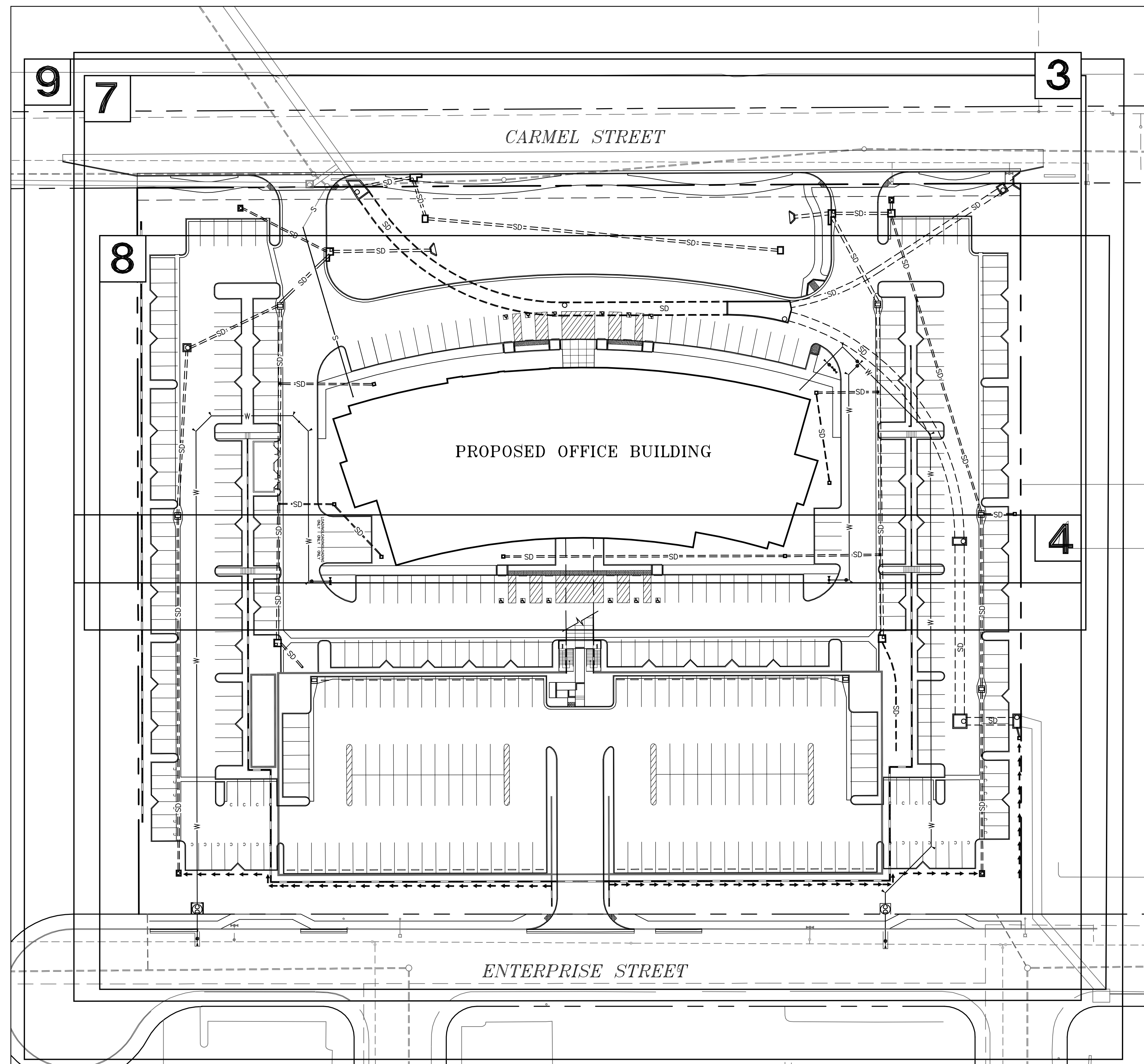
Note: As the generator, the landowner is ultimately responsible for the proper disposal of the exposed filter medium and debris. Because the materials likely contain petroleum hydrocarbons, heavy metals and other harmful pollutants, the materials must be treated as an EPA Class 2 Hazardous Waste and properly disposed of. DPS relieves the landowner of the actual disposal task, and provides certification of its completion in accordance with appropriate regulations.

DPS also has the capability of servicing all manner of catch basin inserts and catch basins without inserts, underground oil/water separators, stormwater interceptors and other such devices. All DPS personnel are highly qualified technicians and are confined space trained and certified. Call us at (888) 950-8826 for further information and assistance.

**RESPONSIBLE PARTY:**

CARMEL, LLC  
c/o ELKINS-ZIRPOLO, INC.  
2150 FIRST AVENUE  
SAN DIEGO, CA 92101  
(619) 239-3434

FLOGARD+PLUS FILTER INSERT LOCATION	MODEL NUMBER	NUMBER OF UNITS INSTALLED	DESIGN RUNOFF (CFS)	UNIT TREATMENT CAPACITY (CFS)
INLET # A14	FQP-1836F	1	0.11	1.6



**SHEET INDEX MAP**  
SCALE: 1" = 40'

**INDEX LEGEND**

- STORM DRAIN ---SD---
- STORM DRAIN INLET OR C.O.
- PRIVATE 8" FIRE LINE —W—
- PRIVATE SEWER LINE —S—

**SHEET INDEX**

- SHEET 1 COVER SHEET
- SHEET 2 INDEX SHEET
- SHEET 3 PRECISE GRADING PLAN
- SHEET 4 PRECISE GRADING PLAN
- SHEET 5 SITE SECTIONS
- SHEET 6 SITE SECTIONS AND DETAILS
- SHEET 7 PAVEMENT SECTIONS
- SHEET 8 PRIVATE FIRE LINE PLAN/PROFILE
- SHEET 9 EROSION CONTROL PLAN
- SHEET 10 PERMANENT BMP MAP
- SHEET 11 PRIVATE STORM DRAIN PROFILES
- SHEET 12 RETAINING WALL STRUCTURAL NOTES
- SHEET 13 RETAINING WALL STRUCTURAL DETAILS
- SHEET 14 RETAINING WALL SITE PLAN
- SHEET 15 RETAINING WALL ELEVATIONS
- SHEET 16 RETAINING WALL ELEVATIONS
- SHEET 17 RETAINING WALL FOOTING/WALL DETAILS

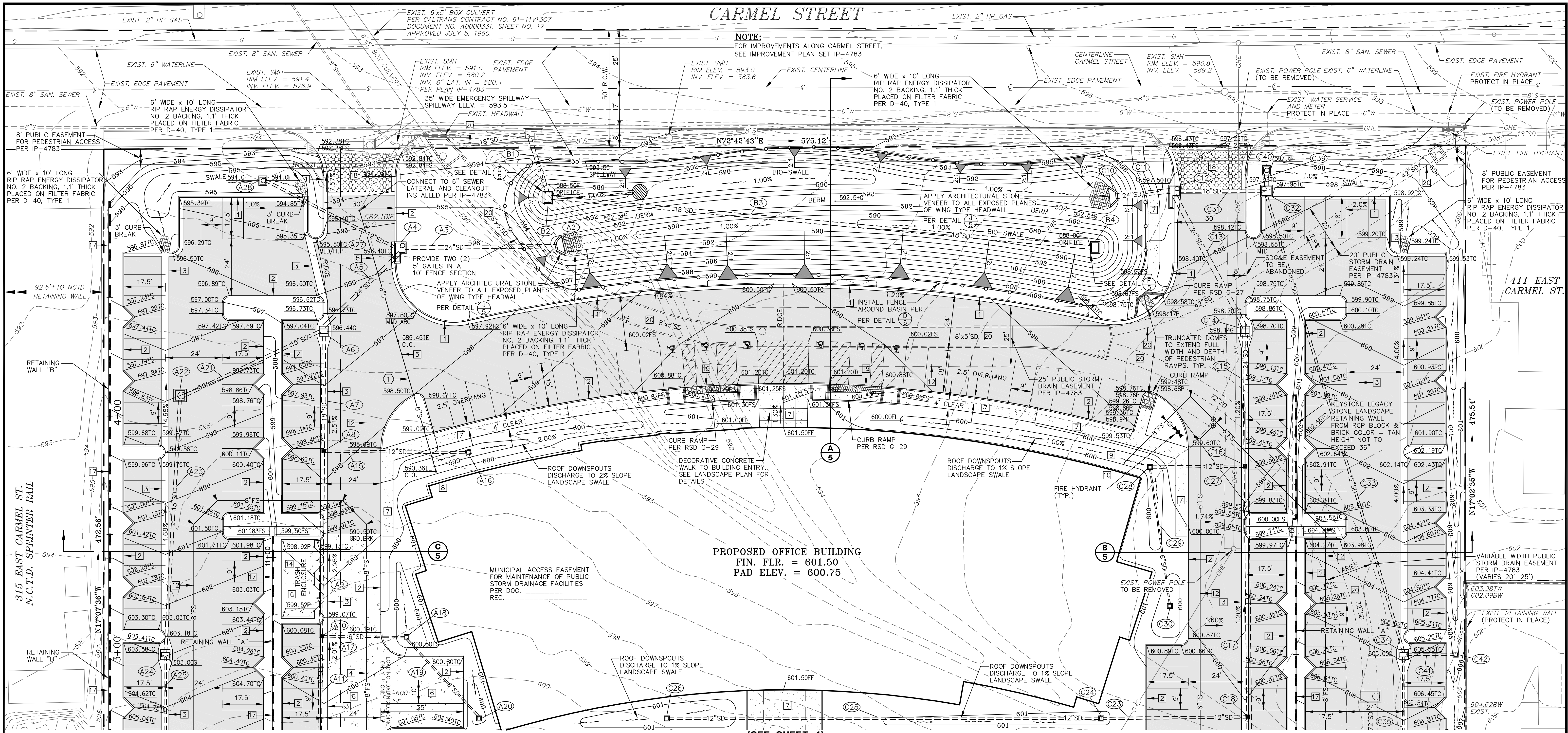


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SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT GRADING PLAN ONLY	ENGINEER OF WORK By: _____ Date: _____ Name: Richard G. Lang, P.E. R.C.E.: 39016 exp: 03/31/09	CITY APPROVED CHANGES No. Description App'd By Date	RECOMMENDED FOR APPROVAL By: Sassan Haghgo, Deputy City Engineer R.C.E.: 42201 exp: 03/31/2010 Date: _____	APPROVED FOR CONSTRUCTION By: Michael D. Edwards, City Engineer R.C.E.: 32977 exp: 06/30/2010 Date: _____	BENCH MARK Description: Caltrans Monument 78-12.9 1988 CDH 2 1/4" Notes: disc #1130 on Record of Survey 13928 Location: Brass disc in sidewalk at a point 66.7' south of the southwest corner of the Twin Oaks Valley Road bridge over Highway 78 Record From: Record of Survey 13928 Elev: 551.91' Datum: MSL	CITY OF SAN MARCOS ENGINEERING DIVISION BMP NOTES/SHEET INDEX MF 1599 <b>CAMPUS POINTE MEDICAL CENTRE</b> SDP 06-319 TPM 651 City Drawing No. <b>GP-2407</b> Sheet 2 of 17
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# CARMEL STREET

NOTE:  
FOR IMPROVEMENTS ALONG CARMEL STREET,  
SEE IMPROVEMENT PLAN SET IP-4783



- CONSTRUCTION NOTES**
- 6" CONCRETE TYPE "G" CURB AND GUTTER PER SDRSD G-2
  - 6" CONCRETE CURB PER SDRSD C-1
  - CONCRETE SWALE PER DETAIL (E)
  - 8" PRIVATE FIRELINE
  - PRIVATE SANITARY SEWER
  - CONCRETE PAVEMENT PER SOILS ENGINEER'S REPORT
  - CONCRETE SIDEWALK PER ARCHITECT'S PLAN
  - P.O.C. FOR BUILDING SEWER - (5' OUTSIDE BUILDING FOOTPRINT)
  - P.O.C. FOR DOMESTIC WATER SERVICE - (5' OUTSIDE BLDG FOOTPRINT)
  - P.O.C. FOR BUILDING FIRE SERVICE - (5' OUTSIDE BUILDING FOOTPRINT)
  - P.I.V., D.D.C.V. & F.D.C. ASSEMBLIES, SHOWN FOR REFERENCE ONLY
  - PRIVATE FIRE SERVICE
  - 36" CURB BREAK FOR DRAINAGE PURPOSES
  - TRASH ENCLOSURE, SEE ARCHITECT'S PLAN FOR DETAILS
  - NOT USED
  - MOW CURB PER LANDSCAPE ARCHITECT'S PLAN
  - SITE RETAINING WALL, SEE SHEETS 12 THRU 17 OF THIS SET
  - INTERLOCKING CONCRETE PAVERS PER DETAIL (G)
  - ZERO CURB CONDITION, INSTALL TRUNCATED DOMES 3" DEEP
  - PROPOSED PUBLIC STORM DRAIN PER IMPROVEMENT PLAN IP-4783

**PRIVATE STORM DRAIN "A" PIPE TABLE**

NO.	BRG./RAD.	LENGTH	SLOPE	Q <sub>100</sub> (cfs)	V <sub>100</sub> (fps)	COMMENTS
(A3)	S72°15'40"W	64.12'	1.03%	14.47	5.31	24" HDPE
(A5)	S28°54'43"W	44.80'	2.01%	11.37	6.77	24" HDPE
(A7)	S16°31'19"E	48.15'	1.99%	7.63	4.78	18" HDPE
(A9)	S16°31'19"E	78.23'	1.05%	6.27	4.18	18" HDPE
(A11)	S16°31'19"E	88.25'	1.05%	6.77	5.26	18" HDPE
(A15)	N73°28'41"E	59.95'	1.80%	1.81	3.11	12" HDPE
(A17)	N73°28'41"E	34.71'	3.26%	0.27	1.81	6" PVC
(A19)	S60°07'59"E	44.85'	1.49%	0.07	1.09	6" PVC
(A21)	S47°27'05"W	63.22'	1.04%	3.15	3.25	15" HDPE
(A23)	S13°50'18"E	106.68'	3.52%	3.28	4.42	15" HDPE
(A25)	S17°07'36"E	229.50'	4.00%	1.16	2.65	12" HDPE
(A27)	N79°47'48"W	61.76'	1.00%	2.98	3.78	12" HDPE

**PRIVATE STORM DRAIN "A" STRUCTURE TABLE**

NO.	DESIGN INFORMATION	NO.	DESIGN INFORMATION
(A2)	WING TYPE HEADWALL PER RSD D-34 INV. 24" HDPE OUT = 590.34 (A3)	(A18)	18"x18" DB; GRATE ELEV.=598.50 INV. 12" HDPE OUT=596.00 (A15)
(A4)	TYPE B-1 CURB INLET; L=8' TOP ELEV.=598.05 INV. 12" HDPE IN=591.00 (A27) INV. 24" HDPE IN=592.31 (A5) INV. 24" HDPE OUT=591.00 (A3)	(A20)	12"x12" DB; GRATE ELEV.=599.50 INV. 6" PVC IN=597.13 (A17)
(A6)	TYPE I CATCH BASIN GRATE ELEV.=598.44 INV. 15" HDPE IN=593.96 (A21) INV. 18" HDPE IN=593.71 (A7) INV. 24" HDPE OUT=593.21 (A5) INV. 15" HDPE OUT=598.57 (A23)	(A22)	TYPE A4 CLEANOUT; RIM=598.00 INV. 15" HDPE IN=594.82 (A23) INV. 15" HDPE OUT=594.62 (A21)
(A8)	TYPE F C.B.; TOP ELEV.=612.60 INV. 12" HDPE IN=608.00 (A27)	(A24)	TYPE I C.B.; GRATE ELEV.=603.00 INV. 12" HDPE IN=598.82 (A25) INV. 15" HDPE OUT=598.57 (A23)
(A10)	6" LUG; INV. 6" PVC IN=596.00 (A17) INV. 18" HDPE OUT=595.49 (A9)	(A26)	TYPE F C.B.; TOP ELEV.=612.60 INV. 12" HDPE IN=608.00 (A27)
		(A28)	TYPE F C.B.; TOP ELEV.=595.13 INV. 12" HDPE OUT=591.62 (A27)

**PRIVATE STORM DRAIN "B" & "C" PIPE TABLE**

NO.	BRG./RAD.	LENGTH	SLOPE	Q <sub>100</sub> (cfs)	V <sub>100</sub> (fps)	COMMENTS
(B1)	S35°14'08"E	23.91'	1.05%	4.77	2.70	18" RCP
(B3)	N78°09'00"E	229.25'	0.50%	2.40	1.25	18" HDPE
(C11)	N67°18'23"E	229.25'	1.48%	17.38	6.69	24" HDPE
(C13)	S45°16'35"E	63.06'	4.17%	10.76	4.45	24" HDPE
(C15)	S17°43'46"E	54.83'	0.60%	9.65	4.79	24" HDPE
(C17)	S17°43'46"E	104.95'	0.60%	8.31	4.19	24" HDPE
(C23)	S72°16'14"W	60.70'	1.05%	2.68	4.34	12" HDPE
(C25)	S72°52'24"W	181.95'	1.05%	1.46	2.74	12" HDPE
(C27)	S72°16'14"W	38.99'	4.31%	1.91	3.19	12" HDPE
(C29)	S25°28'39"E	57.78'	1.06%	0.22	1.74	6" PVC
(C31)	N72°52'24"E	34.75'	1.04%	5.77	3.44	18" HDPE
(C33)	S33°51'44"E	201.42'	4.00%	3.66	4.81	12" HDPE
(C35)	S17°07'36"E	111.30'	4.00%	2.27	3.60	12" HDPE
(C39)	N17°07'36"W	5.17'	5.03%	2.47	3.78	12" HDPE
(C41)	N72°52'24"E	19.49'	2.00%	0.22	1.40	8" PVC

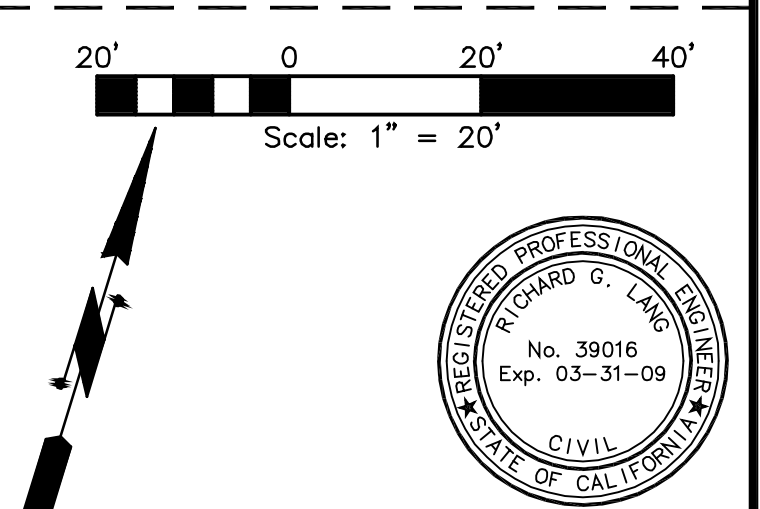
**PRIVATE STORM DRAIN "B" & "C" STRUCTURE TABLE**

NO.	DESIGN INFORMATION	NO.	DESIGN INFORMATION
(B2)	TYPE G-2 CATCH BASIN GRATE ELEV.=592.40 INV. 7.5" ORIFICE=588.50 INV. 18" HDPE IN=585.25 (B3) INV. 18" RCP OUT=585.25 (B1)	(C24)	18"x18" DB; GRATE ELEV.=600.00 INV. 12" PVC IN/OUT=596.47 (C25,C23)
(B4)	TYPE G-2 CATCH BASIN GRATE ELEV.=591.95 INV. 7" ORIFICE=588.00 INV. 18" HDPE IN=586.40 (B3)	(C26)	18"x18" DB; GRATE ELEV.=600.50 INV. 12" HDPE OUT=598.38 (C25)
(C10)	WING TYPE HEADWALL PER RSD D-34 INV. 24" HDPE OUT=591.00 (C11)	(C28)	18"x18" DB; GRATE ELEV.=599.00 INV. 6" PVC IN=597.12 (C29)
(C12)	TYPE A-1 CURB INLET; L=9' TOP ELEV.=597.67 INV. 18" HDPE IN=591.84 (C31) INV. 24" HDPE IN=591.54 (C13)	(C30)	12"x12" DB; GRATE ELEV.=609.50 INV. 6" PVC OUT=597.73 (C29)
(C14)	TYPE I C.B.; GRATE ELEV.=598.14 INV. 24" HDPE IN=594.37 (C13)	(C32)	TYPE B CURB INLET; TOP ELEV.=597.95 INV. 12" HDPE IN=592.70 (C39) INV. 12" HDPE OUT=592.20 (C31)
(C16)	12" LUG; INV. 12" HDPE IN=595.20 (C27) INV. 24" HDPE IN/OUT=594.70 (C17/C15)	(C34)	TYPE I C.B.; GRATE ELEV.=605.00 INV. 8" PVC IN=601.34 (C41) INV. 12" HDPE IN=601.01 (C35) INV. 12" HDPE OUT=600.76 (C33)
(C18)	12" LUG; INV. 12" HDPE IN=595.83 (C23) INV. 24" HDPE IN/OUT=595.33 (C19/C17)	(C36)	TYPE I C.B.; GRATE ELEV.=609.66 INV. 12" HDPE IN=605.66 (C37) INV. 12" HDPE OUT=605.46 (C35)
		(C40)	TYPE F C.B.; TOP ELEV.=599.63 INV. 12" HDPE OUT=592.96 (C39) 18"x18" DB; GRATE ELEV.=605.00 INV. 8" PVC OUT=601.73 (C41)

**PRIVATE SEWER TABLE**

NO.	LENGTH	SLOPE	BEARING	COMMENTS
(S1)	144.54'	5.72%	S33°29'24"E	6" PVC SDR-35

SAN MARCOS FIRE DEPARTMENT		VALLECITOS WATER DISTRICT GRADING PLAN ONLY		ENGINEER OF WORK		CITY APPROVED CHANGES		RECOMMENDED FOR APPROVAL		APPROVED FOR CONSTRUCTION		BENCH MARK		CITY OF SAN MARCOS ENGINEERING DIVISION		City Drawing No.	
By: Fire Marshal	Date:	By: Richard G. Lang, P.E.	Date: 3/31/09	No. Description	App'd By/Date	By: Sassan Haghgo, Deputy City Engineer	Date: 4/22/01	By: Michael D. Edwards, City Engineer	Date: 3/29/77	Description: Caltrans Monument "78-12-9 1988 CDH" 2 1/4" Brass disc (PT #1130 on Record of Survey 13928) Brass disc in sidewalk at a point 69.7' south of the southeast corner of the Tam O'Shan Valley Road bridge over Highway 78	PRECISE GRADING PLAN <b>CAMPUS POINTE MEDICAL CENTRE</b>		MF 1599	GP-2407	SDP 06-319 TPM 651 Sheet 3 of 17		MAXIMO WO# 0815639

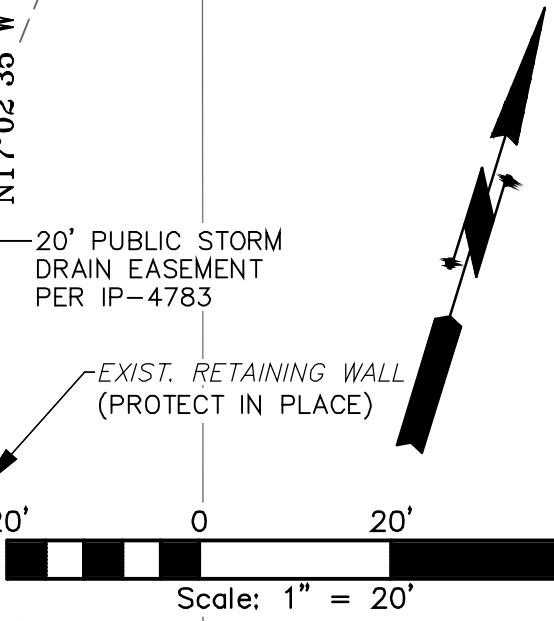
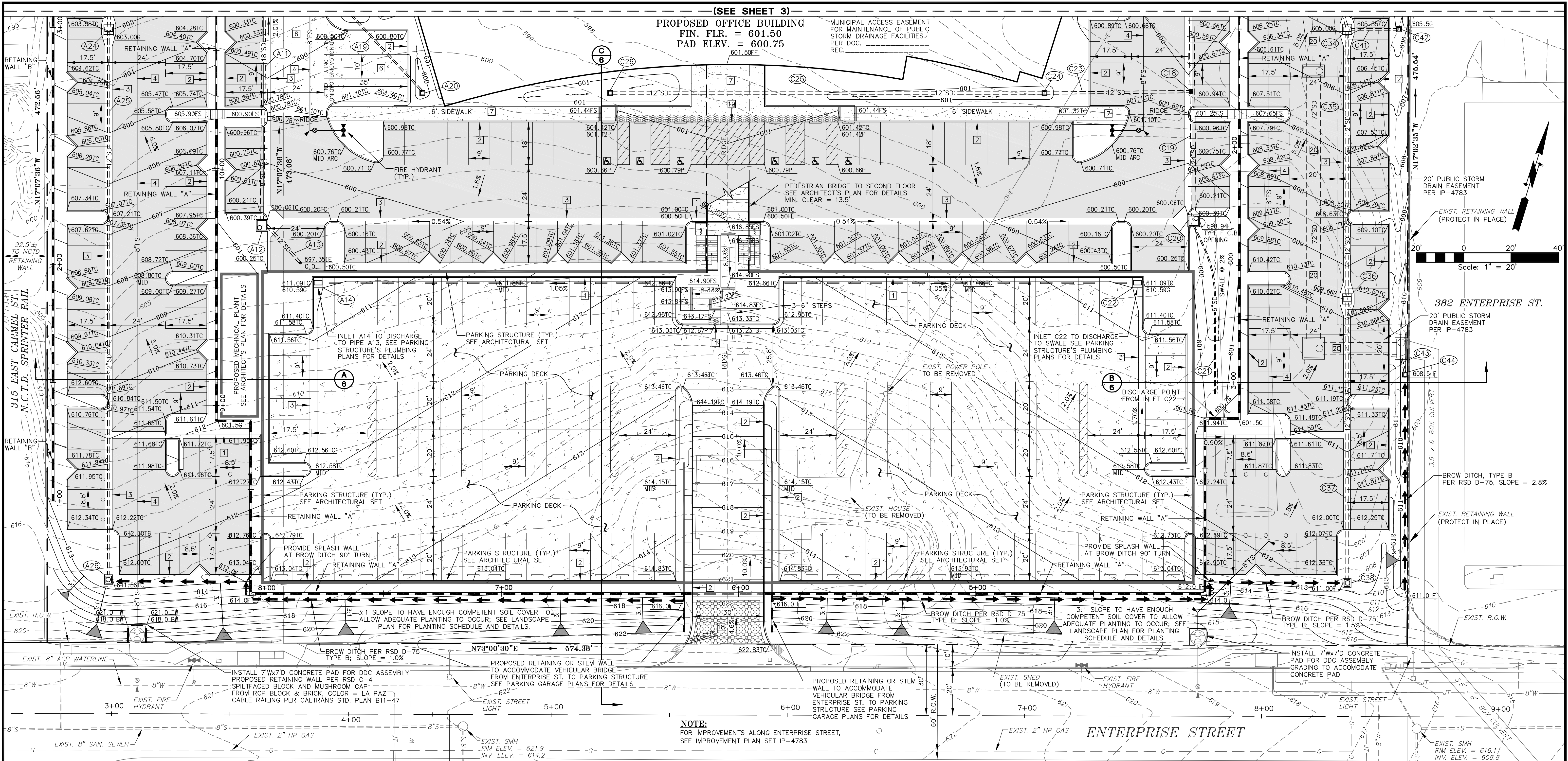


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(SEE SHEET 3)

PROPOSED OFFICE BUILDING  
FIN. FLR. = 601.50  
PAD ELEV. = 600.75

MUNICIPAL ACCESS EASEMENT  
FOR MAINTENANCE OF PUBLIC  
STORM DRAINAGE FACILITIES  
PER DOC.



382 ENTERPRISE ST.

ENTERPRISE STREET

CONSTRUCTION NOTES

- 1 6" CONCRETE TYPE "G" CURB AND GUTTER PER SDRSD G-2
2 6" CONCRETE CURB PER DETAIL G-1
3 CONCRETE SWALE PER SDRSD E-1
4 8" PRIVATE FIRELINE
5 PRIVATE SANITARY SEWER
6 CONCRETE PAVEMENT PER SOILS ENGINEER'S REPORT
7 CONCRETE SIDEWALK PER ARCHITECT'S PLAN
8 P.O.C. FOR BUILDING SEWER - (5' OUTSIDE BUILDING FOOTPRINT)
9 P.O.C. FOR DOMESTIC WATER SERVICE - (5' OUTSIDE BLDG FOOTPRINT)
10 P.O.C. FOR BUILDING FIRE SERVICE - (5' OUTSIDE BUILDING FOOTPRINT)
11 P.I.V., D.D.C.V. & F.D.C. ASSEMBLIES, SHOWN FOR REFERENCE ONLY
12 PRIVATE FIRE SERVICE
13 36" CURB BREAK FOR DRAINAGE PURPOSES
14 TRASH ENCLOSURE, SEE ARCHITECT'S PLAN FOR DETAILS
15 NOT USED
16 MOW CURB PER LANDSCAPE ARCHITECT'S PLAN
17 SITE RETAINING WALL, SEE SHEETS 12 THRU 17 OF THIS SET
18 INTERLOCKING CONCRETE PAVERS PER DETAIL A-1
19 ZERO CURB CONDITION, INSTALL TRUNCATED DOMES 3" DEEP
20 PROPOSED PUBLIC STORM DRAIN PER IMPROVEMENT PLAN IP-4783

PRIVATE STORM DRAIN "A" PIPE TABLE with columns for NO., BRG./RAD., LENGTH, SLOPE, Q100, V100, and COMMENTS.

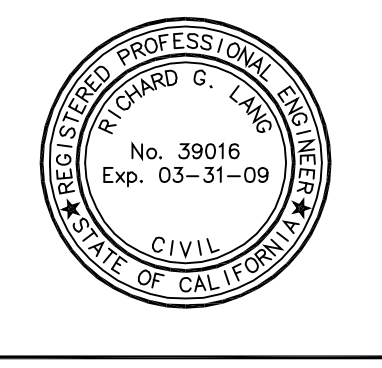
PRIVATE STORM DRAIN "A" STRUCTURE TABLE with columns for NO., DESIGN INFORMATION, and COMMENTS.

PRIVATE STORM DRAIN "C" PIPE TABLE with columns for NO., BRG./RAD., LENGTH, SLOPE, Q100, V100, and COMMENTS.

PRIVATE STORM DRAIN "C" STRUCTURE TABLE with columns for NO., DESIGN INFORMATION, and COMMENTS.

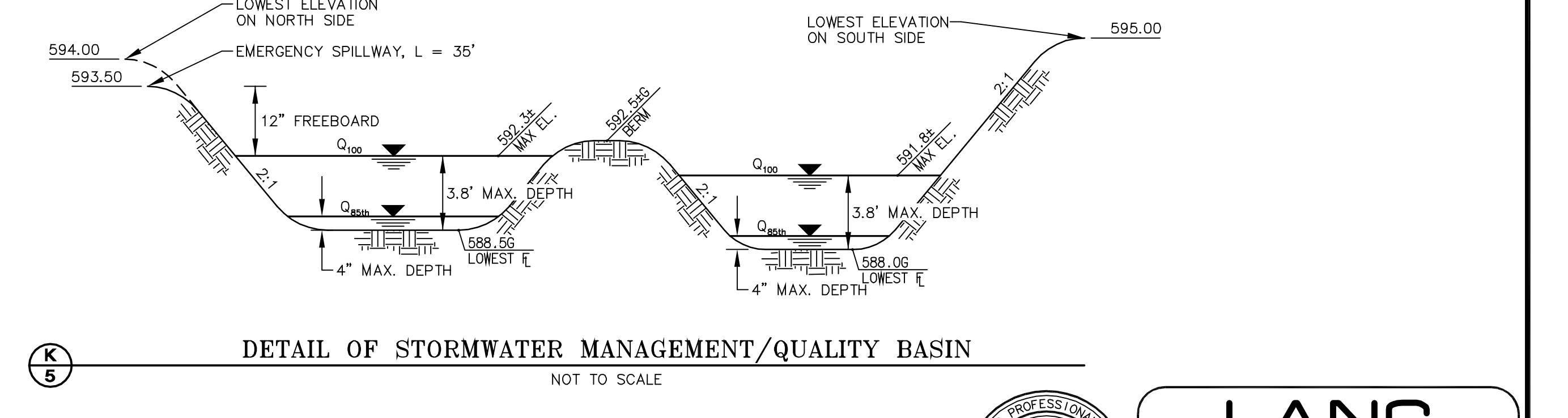
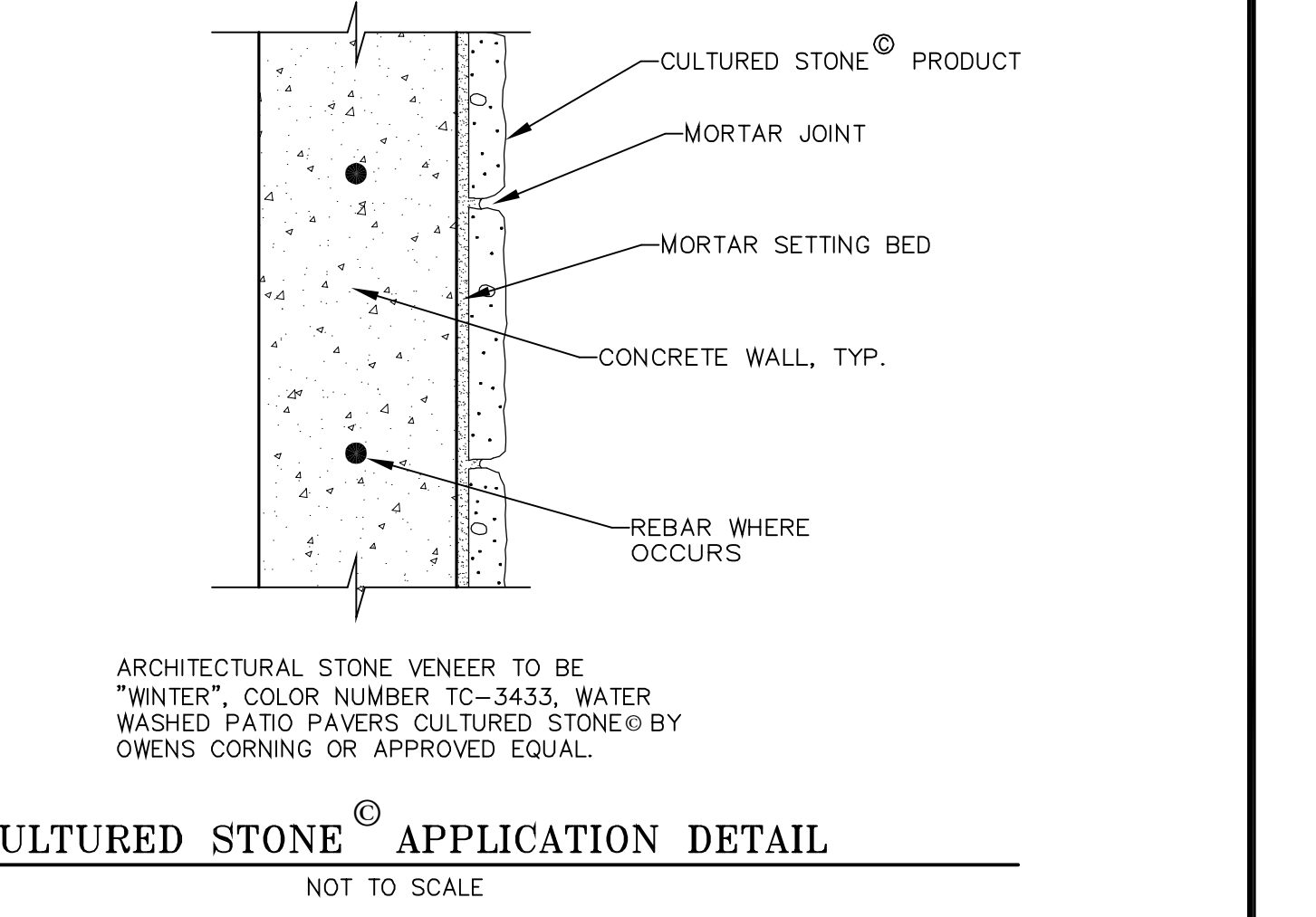
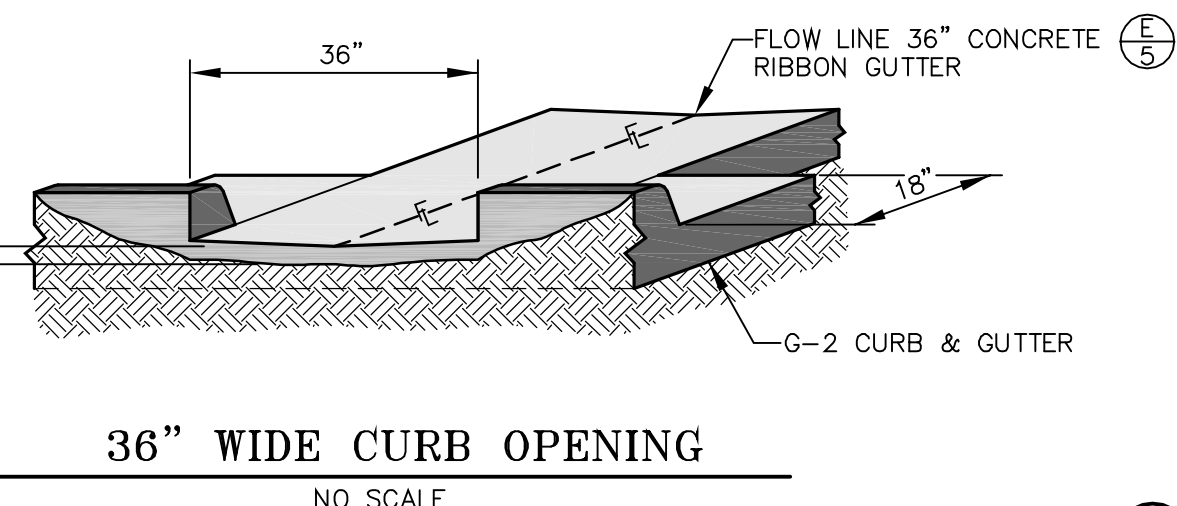
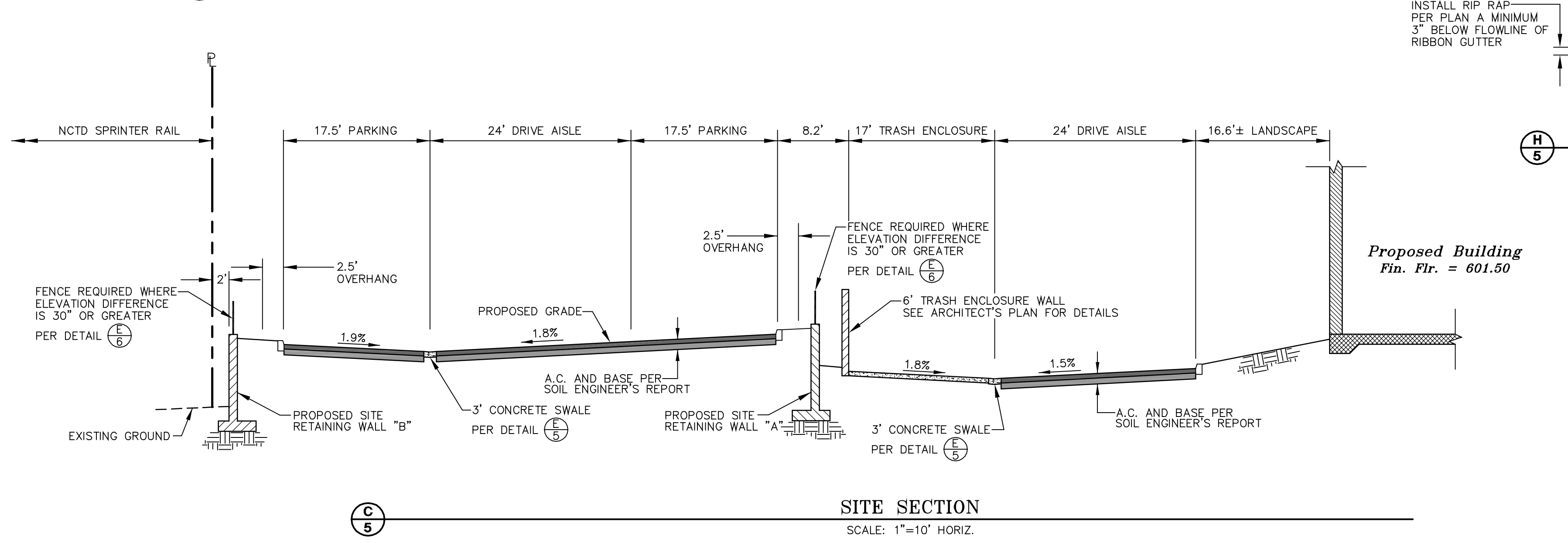
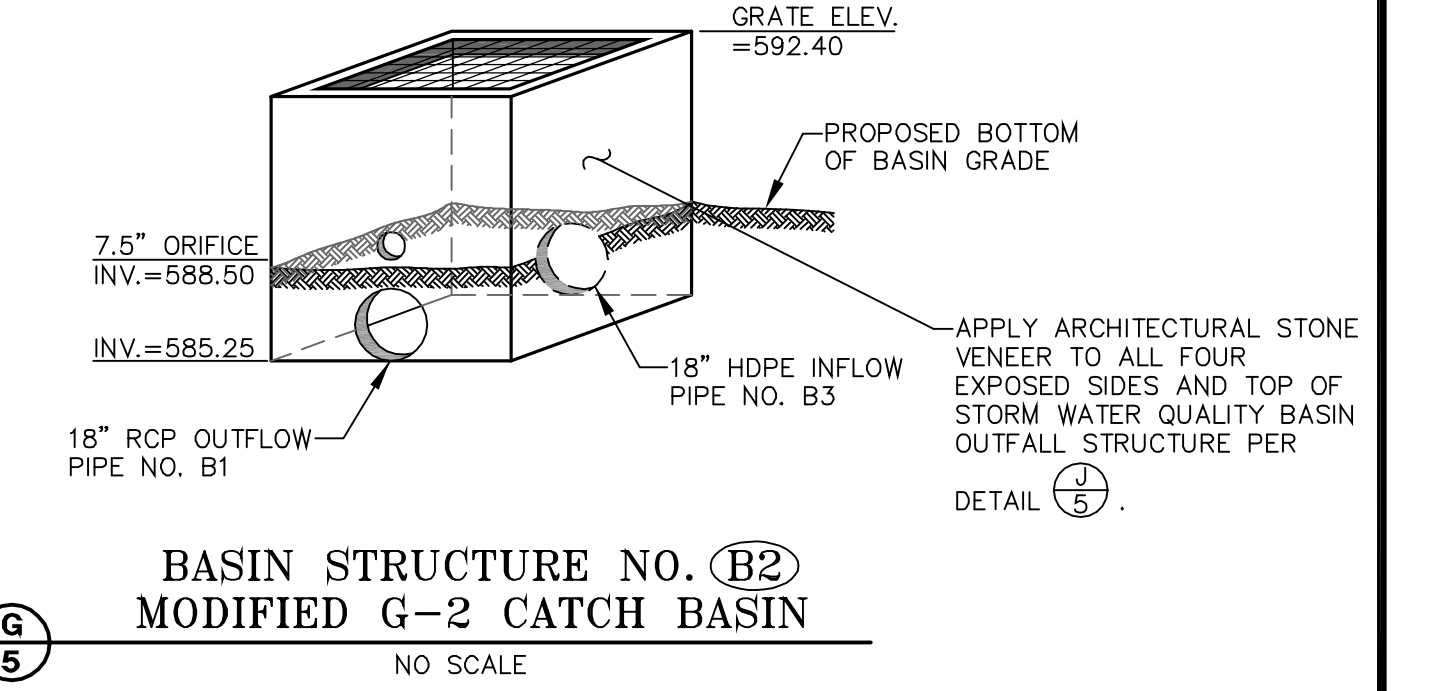
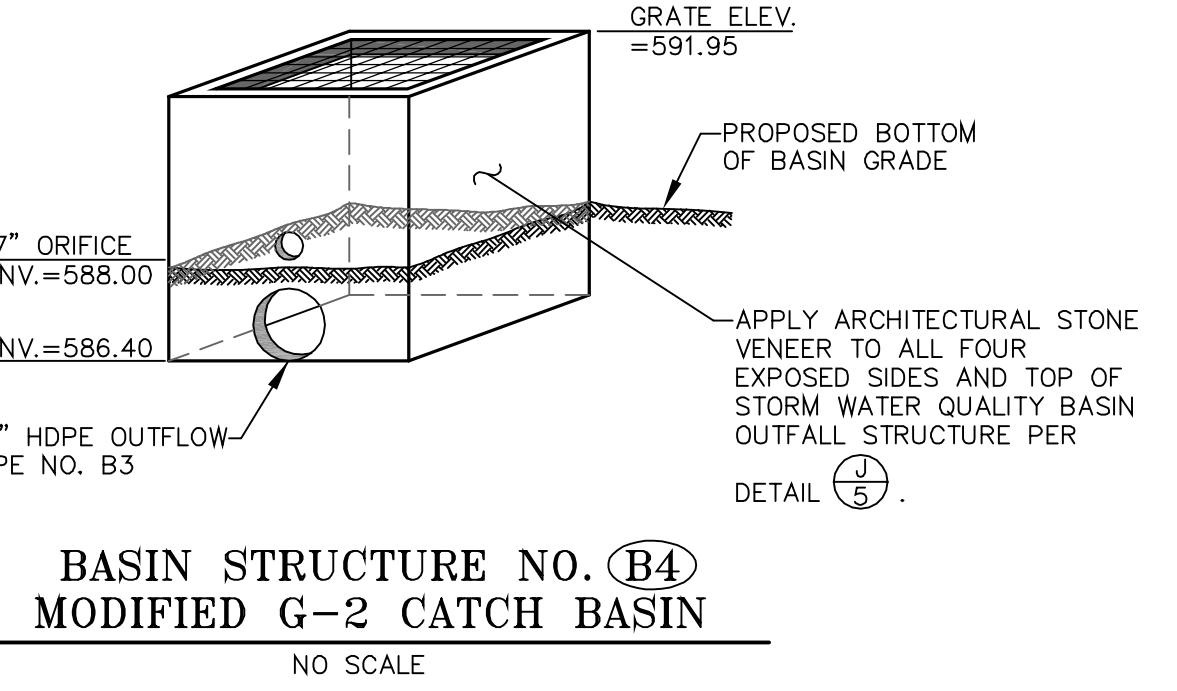
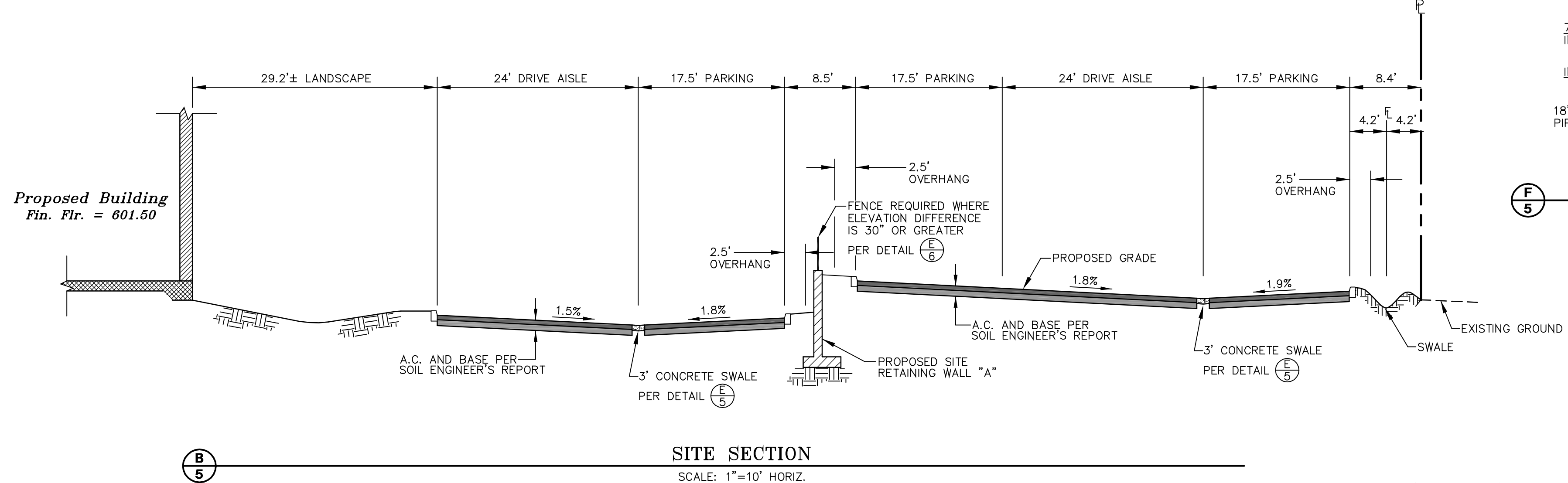
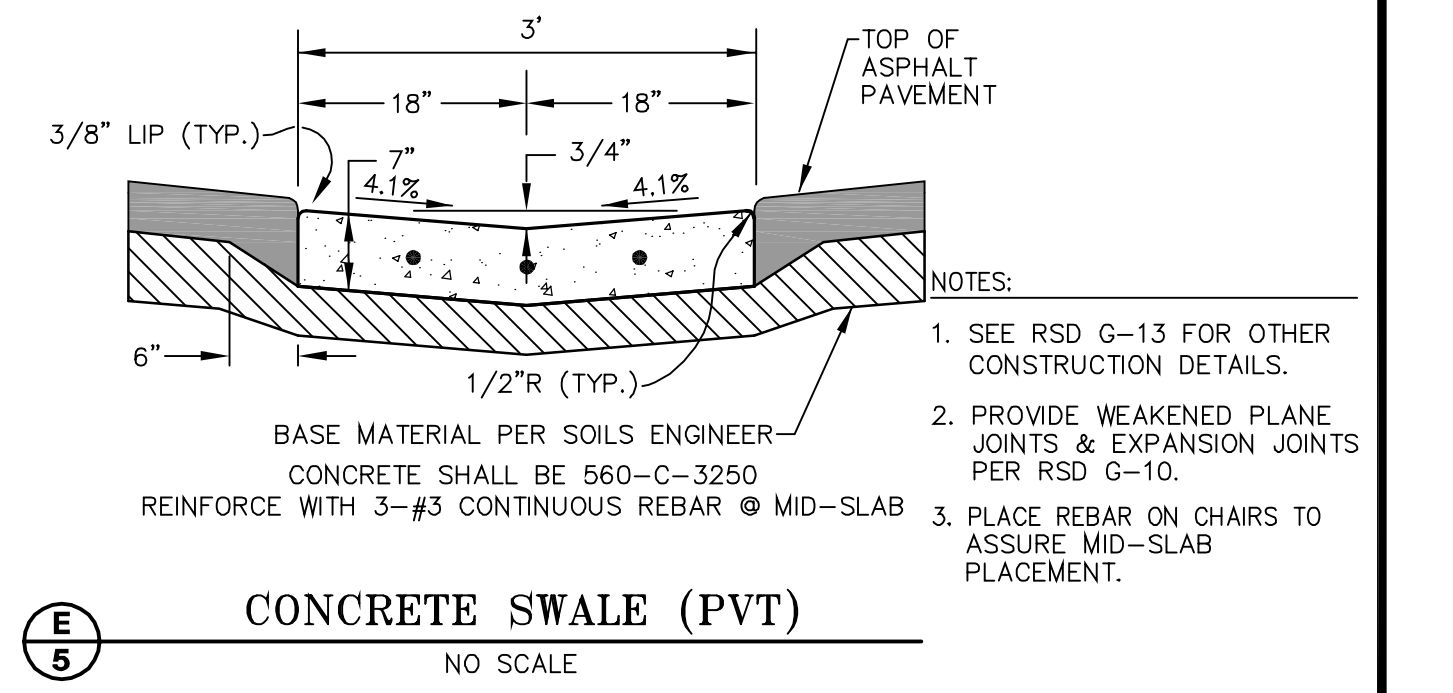
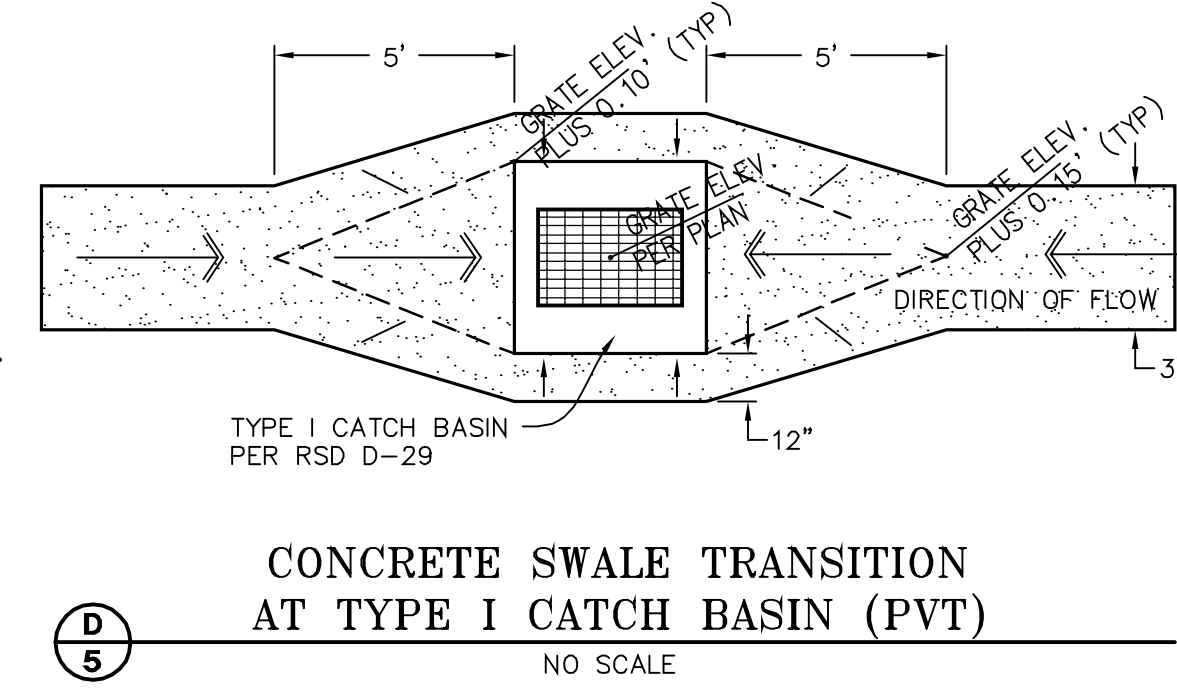
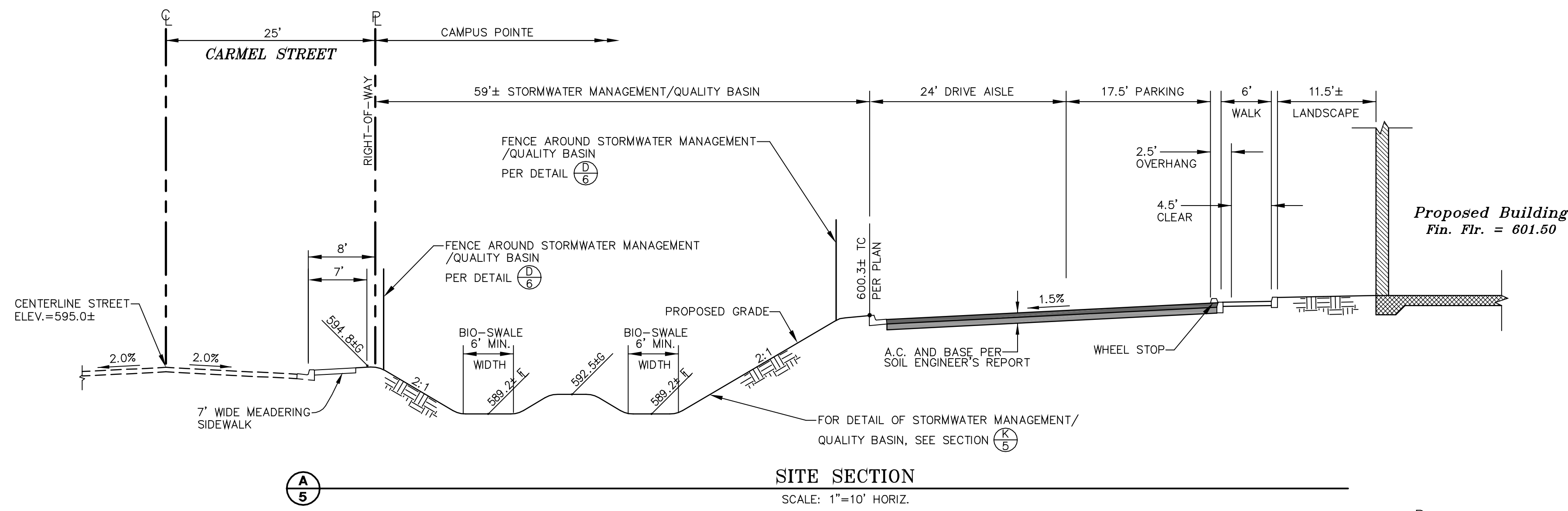
PRIVATE STORM DRAIN "C" STRUCTURE TABLE with columns for NO., DESIGN INFORMATION, and COMMENTS.

NOTE: FOR IMPROVEMENTS ALONG ENTERPRISE STREET, SEE IMPROVEMENT PLAN SET IP-4783



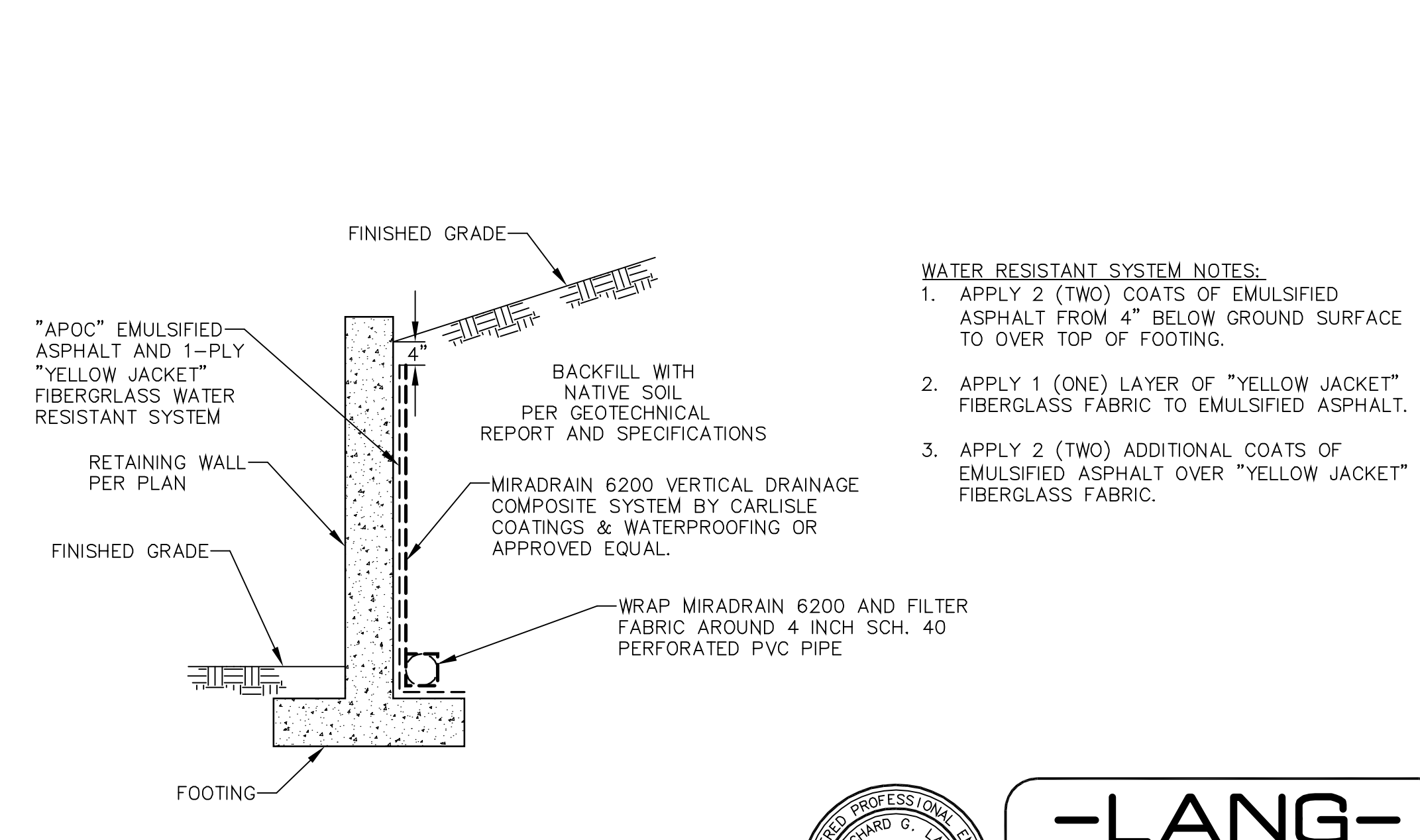
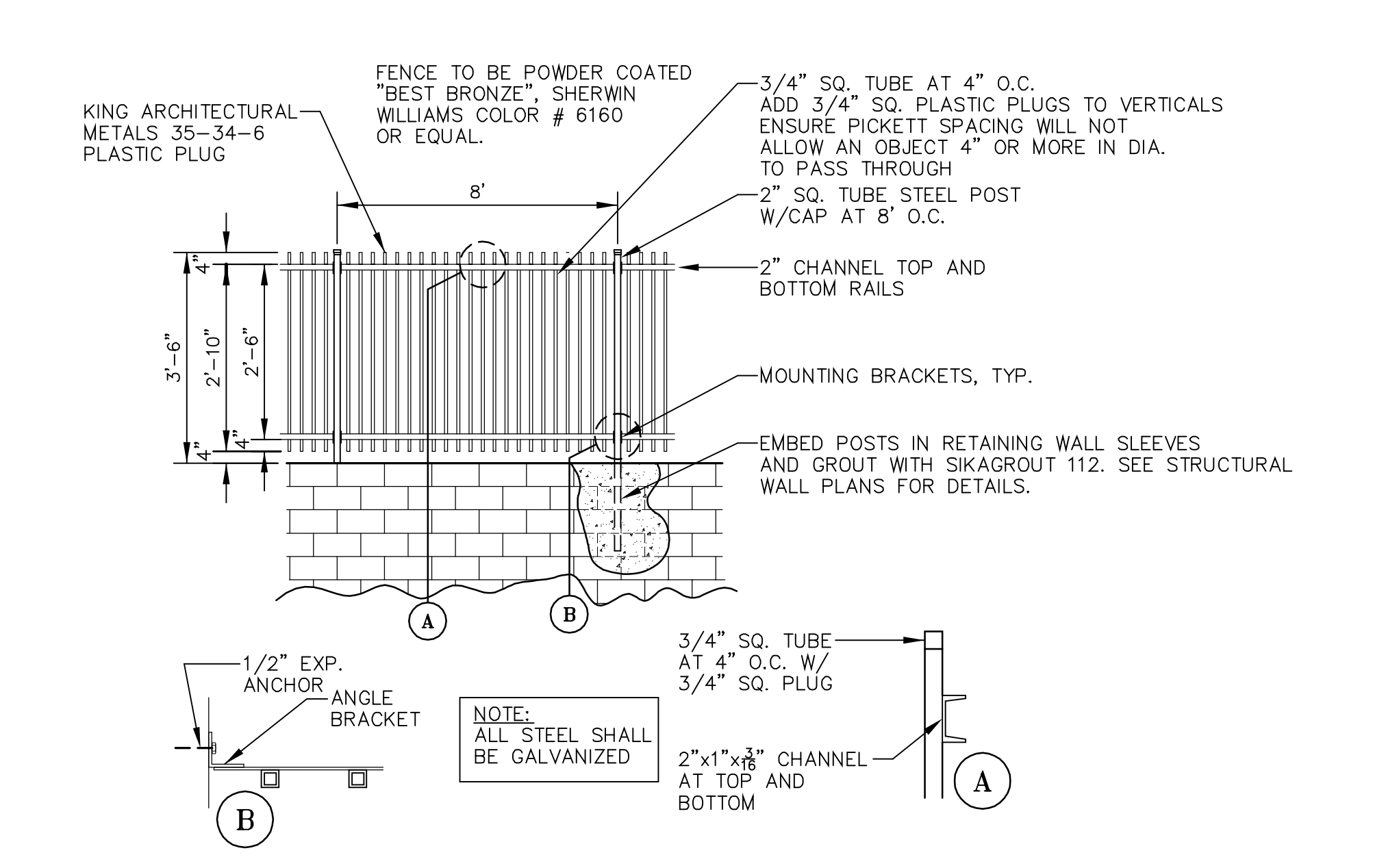
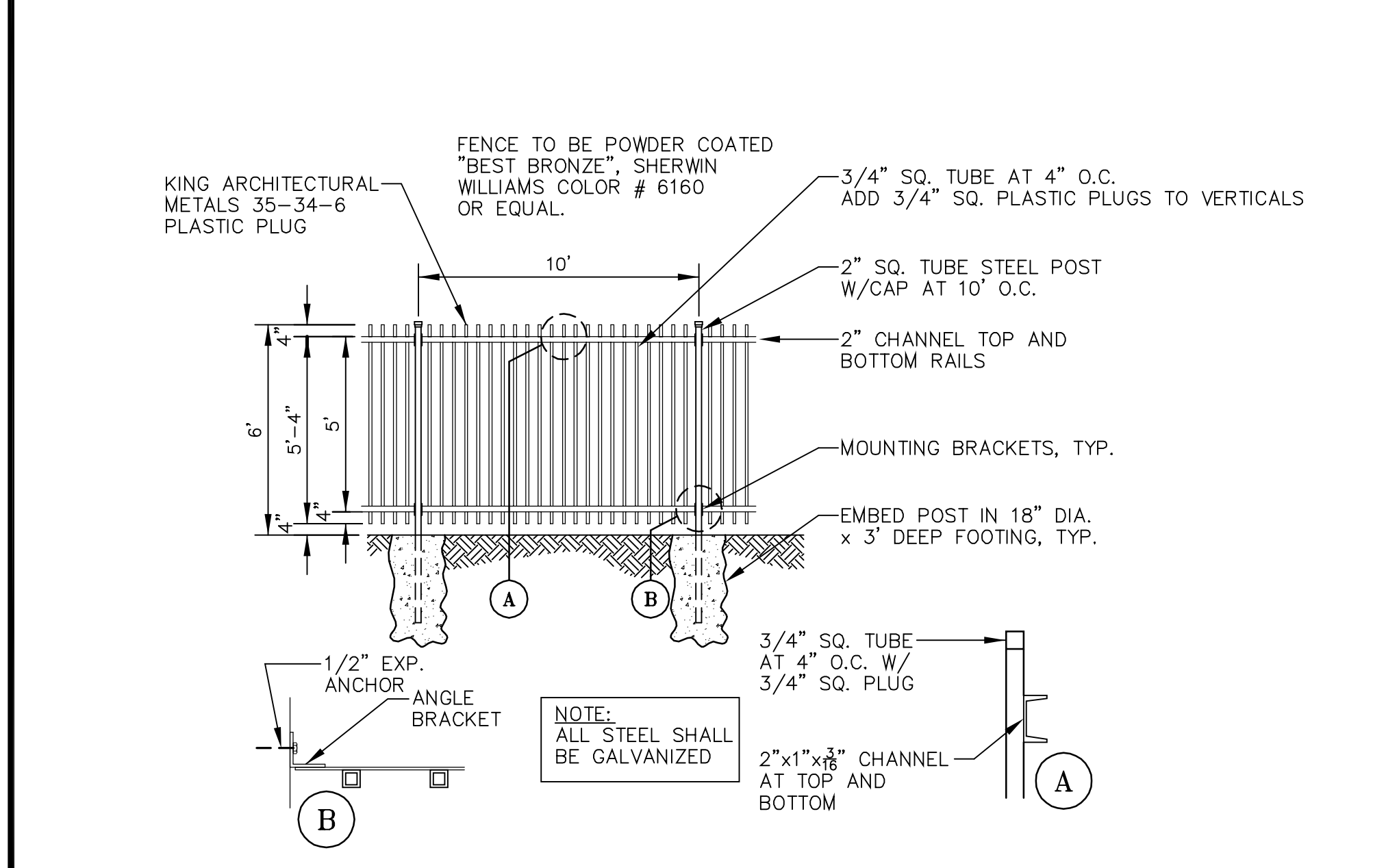
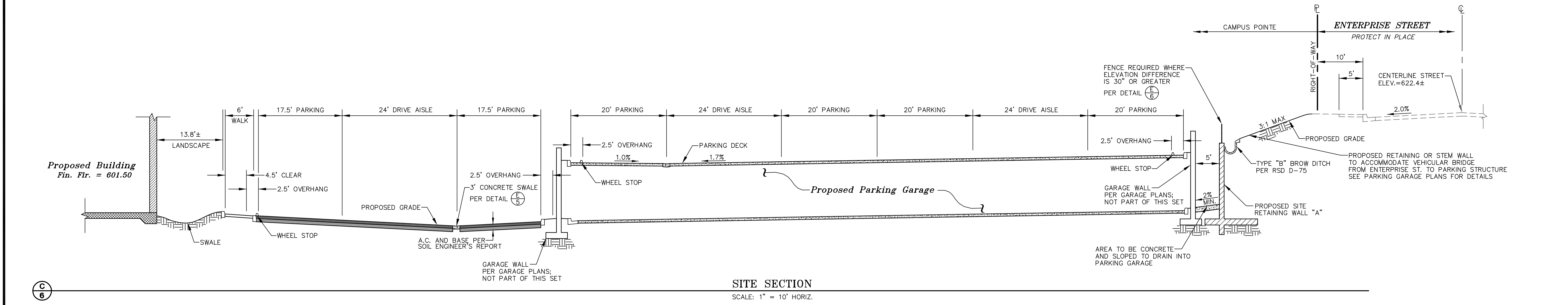
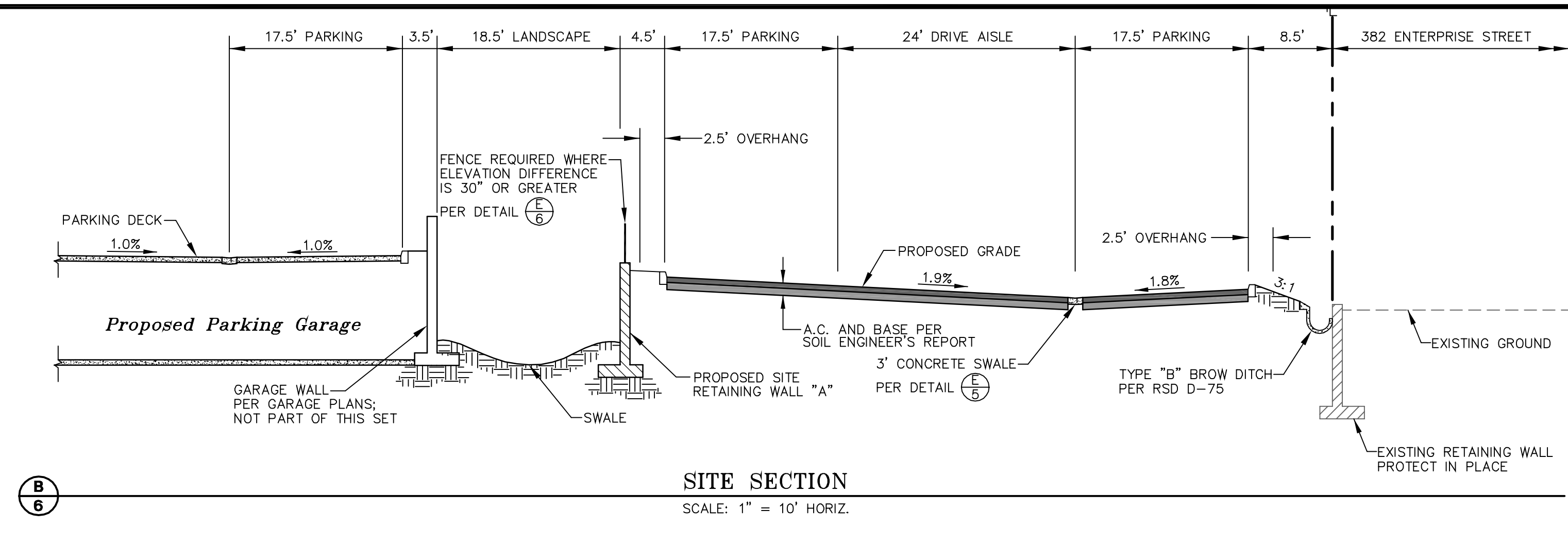
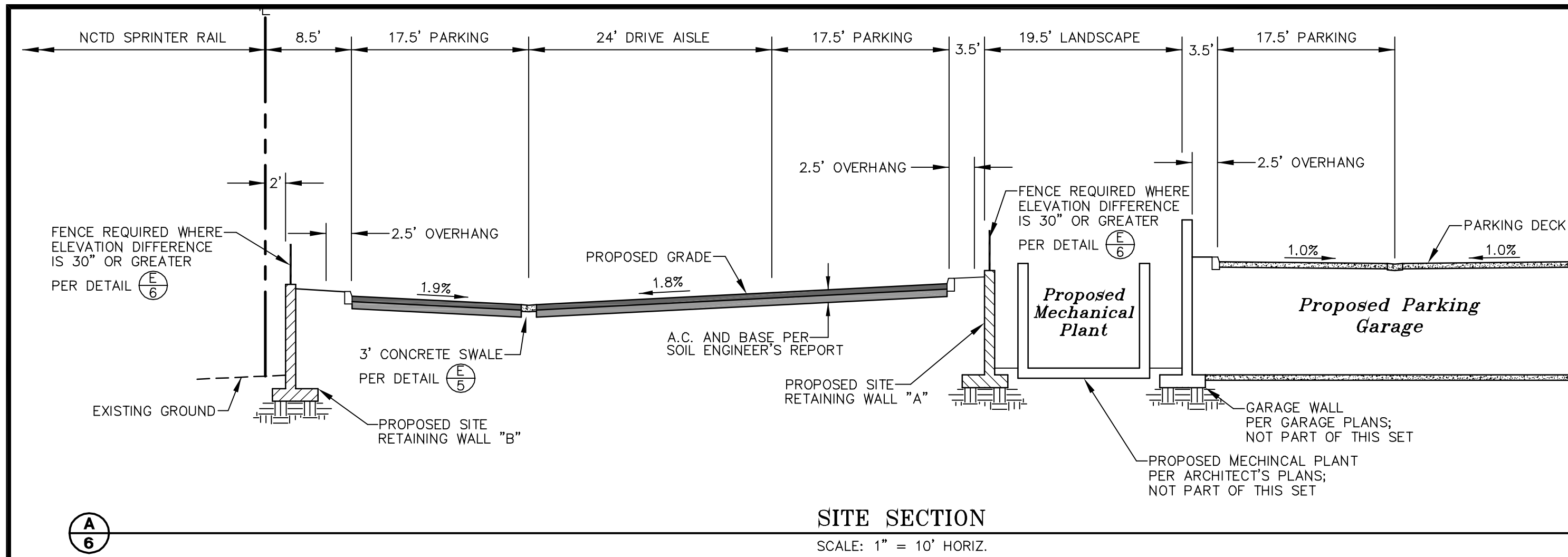
-LANG- engineering co. Consulting Engineers, Land Planners

Approval and signature block including SAN MARCOS FIRE DEPARTMENT, VALLECITOS WATER DISTRICT, ENGINEER OF WORK (Richard G. Lang), CITY APPROVED CHANGES, RECOMMENDED FOR APPROVAL (Sassan Haghgoos), APPROVED FOR CONSTRUCTION (Michael D. Edwards), BENCH MARK, and CITY OF SAN MARCOS ENGINEERING DIVISION (PRECISE GRADING PLAN, CAMPUS POINTE MEDICAL CENTRE).



SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT GRADING PLAN ONLY	ENGINEER OF WORK By: Richard G. Lang, P.E. R.C.E.: 39016 exp: 03/31/09	CITY APPROVED CHANGES No. Description App'd By Date	RECOMMENDED FOR APPROVAL By: Sassan Haghgo, Deputy City Engineer R.C.E.: 42201 exp: 03/31/2010	APPROVED FOR CONSTRUCTION By: Michael D. Edwards, City Engineer R.C.E.: 32977 exp: 06/30/2010	BENCH MARK Description: Caltrans Monument 78-12.9 1988 CDH # 1/4" brass disc (PT #130 on Record of Survey 13928) Location: Brass disc in sidewalk at a point 66.7' south of the southwest corner of the Twin Oaks Valley Road bridge over Highway 78 Record From: Record of Survey 13928 Elev.: 581.91 Datum: MSL	CITY OF SAN MARCOS ENGINEERING DIVISION M.F. 1599 <b>SITE SECTIONS</b> <b>CAMPUS POINTE MEDICAL CENTRE</b> SDP 06-319 TPM 651	City Drawing No. <b>GP-2407</b> Sheet 5 of 17 MAXIMO WO# 0815639
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<b>SAN MARCOS FIRE DEPARTMENT</b> By: Fire Marshal Date:		<b>VALLECITOS WATER DISTRICT</b> GRADING PLAN ONLY By: Richard G. Lang, P.E. R.C.E.: 39016 exp: 03/31/09		<b>ENGINEER OF WORK</b> By: Richard G. Lang, P.E. R.C.E.: 39016 exp: 03/31/09		<b>CITY APPROVED CHANGES</b> No. Description App'd By Date		<b>RECOMMENDED FOR APPROVAL</b> By: Sassan Haghgo, Deputy City Engineer R.C.E.: 42201 exp: 03/31/2010		<b>APPROVED FOR CONSTRUCTION</b> By: Michael D. Edwards, City Engineer R.C.E.: 32977 exp: 06/30/2010		<b>BENCH MARK</b> Description: Caltrans Monument "78-12.9 1988 CDH" 2 1/4" Brass disc (PI #1130 on Record of Survey 13928) Location: Brass disc in sidewalk at a point 69.7' south of the southwest corner of the Twin Oaks Valley Road bridge over Highway 78 Record From: Record of Survey 13928 Elev.: 591.91 Datum: MSL		<b>CITY OF SAN MARCOS ENGINEERING DIVISION</b> <b>SITE SECTIONS</b> <b>CAMPUS POINTE MEDICAL CENTRE</b> SDP 06-319 TPM 651 Sheet 6 of 17 MAXIMO WO# 0815639		<b>City Drawing No.</b> <b>GP-2407</b>	
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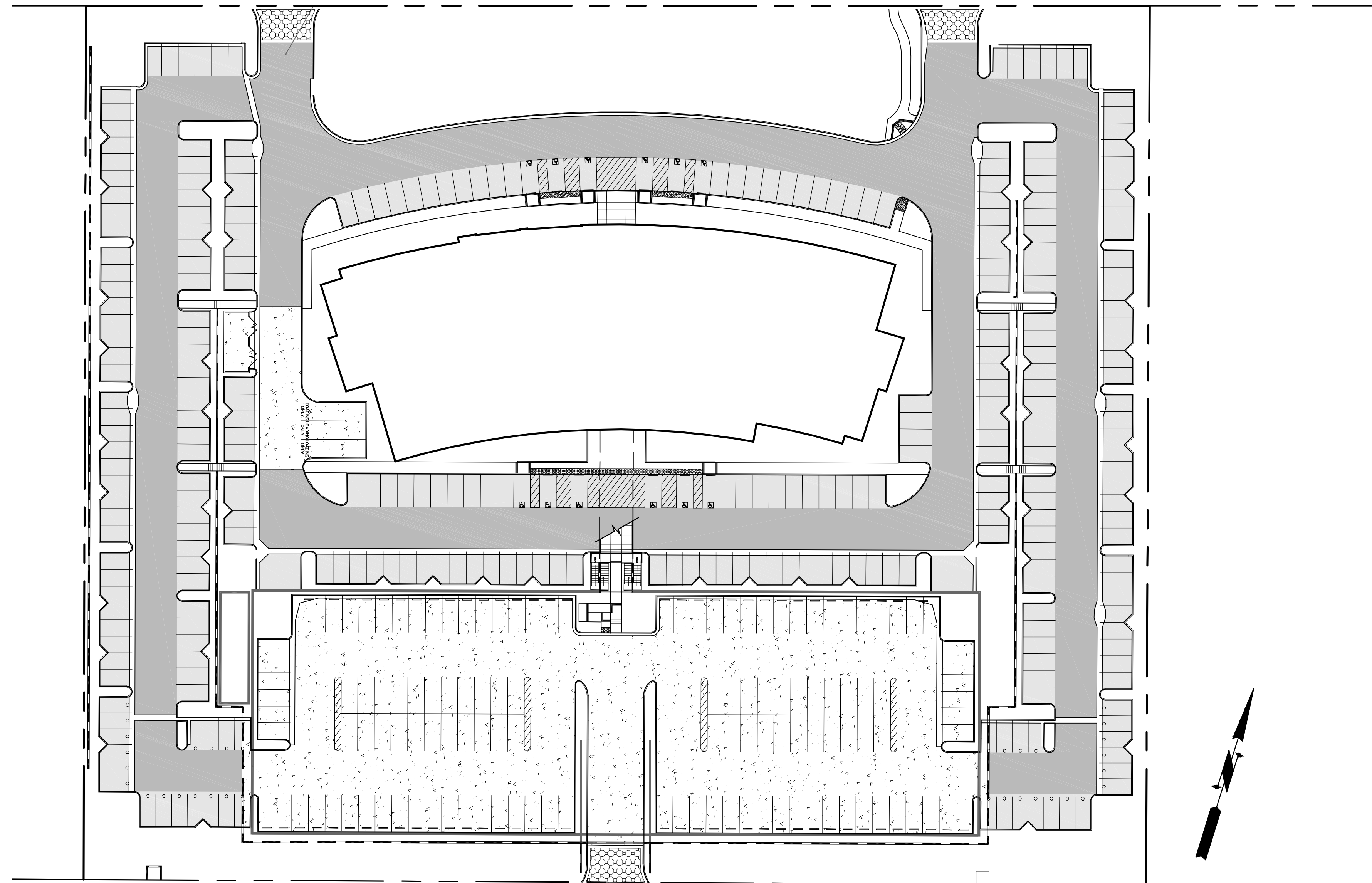
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Richard G. Lang  
No. 39016  
Exp. 03-31-09  
CIVIL ENGINEER  
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CARMEL STREET



ENTERPRISE STREET

**SURFACE PARKING LAYOUT**  
SCALE: 1"=40'

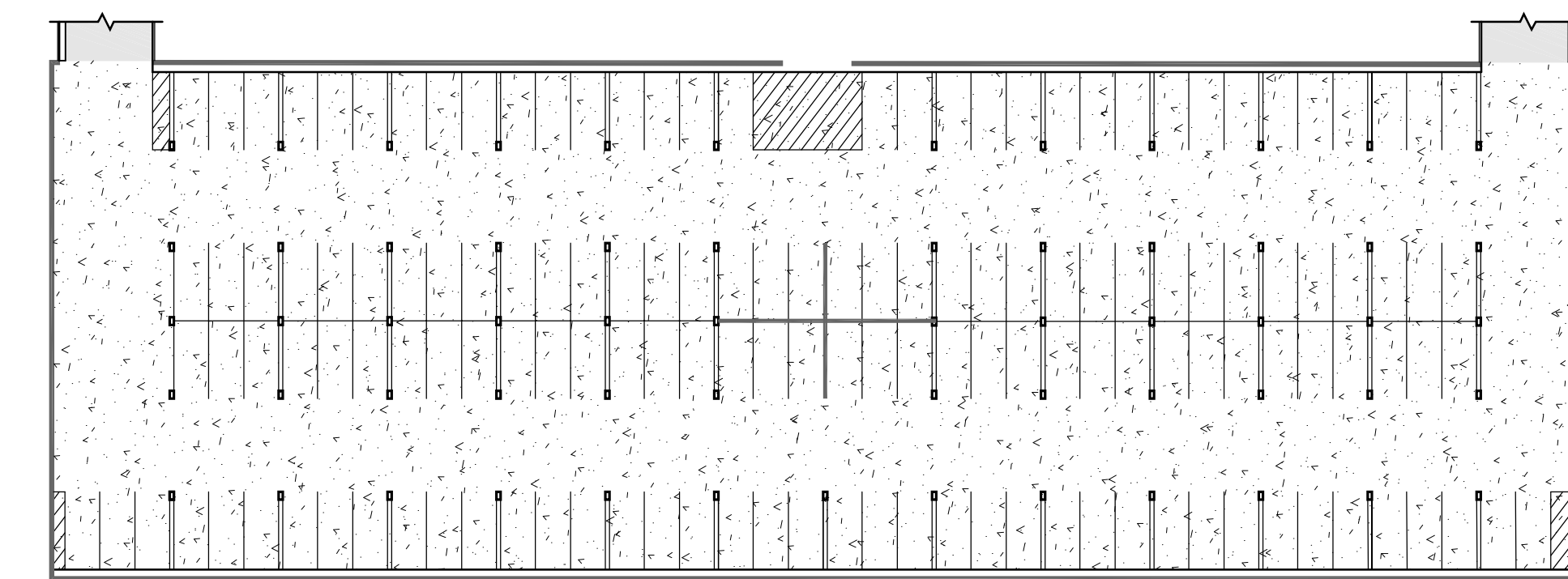
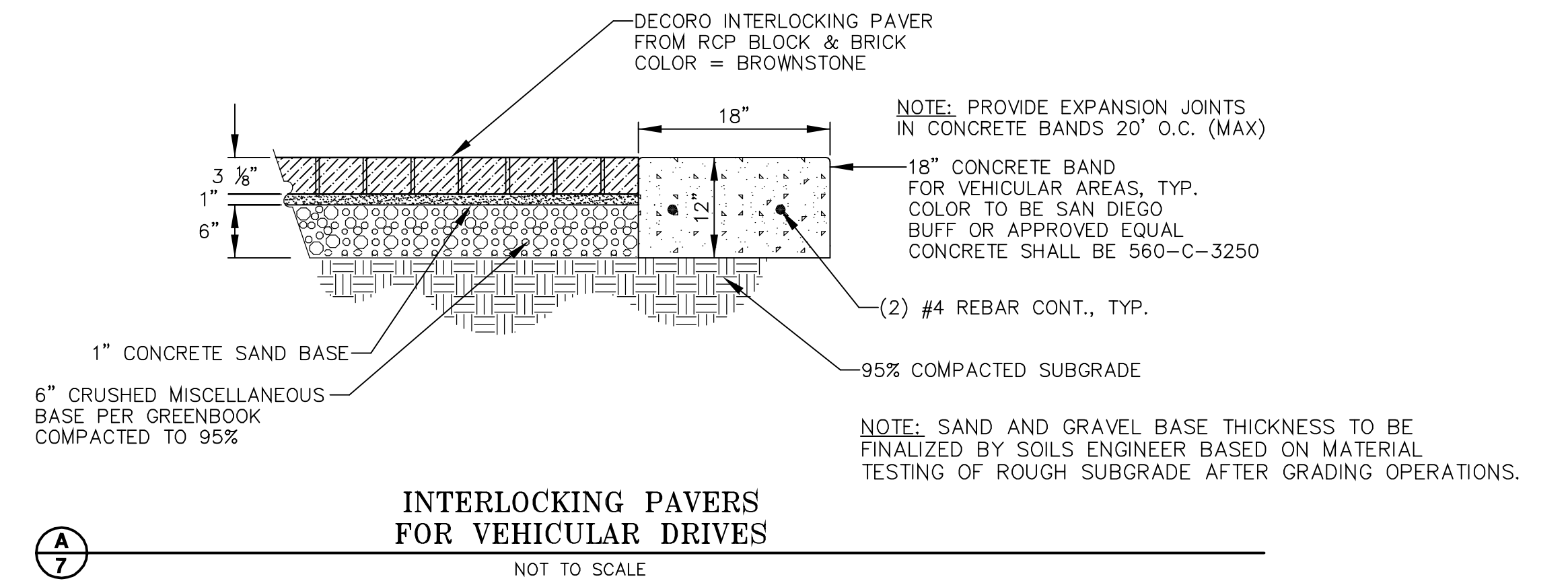
**PAVEMENT SECTION TABLE**

PRELIMINARY PAVEMENT SECTIONS FOR ASSUMED R VALUE OF 30

LOCATION	ASPHALT CONCRETE (INCHES)	CL II - AGGREGATE BASE (INCHES)	AREA (SQUARE FEET)	SYMBOL
AUTO PARKING/DRIVE LANES	2"	5.5"	47,713	
FIRE & TRUCK LANES	3"	8.5"	48,076	
CONCRETE PAVERS W/18" BAND	PER DETAIL (A/7)		1,514	
PORTLAND CEMENT CONCRETE *	7.5" P.C.C.	PER SPECIFICATIONS	3,524	

NOTE: FINAL PAVEMENT SECTIONS WILL BE DETERMINED BY THE SOILS ENGINEER AND APPROVED BY THE CITY PUBLIC WORKS DEPARTMENT UPON ACTUAL FIELD TESTING FOLLOWING COMPLETION OF REMEDIAL AND SUBSEQUENT PRECISE GRADING OPERATIONS.

\* PORTLAND CEMENT CONCRETE QUANTITY DOES NOT INCLUDE PARKING STRUCTURE



**PARKING GARAGE LAYOUT - FIRST FLOOR**  
SCALE: 1"=40'

**PARKING TABLE**

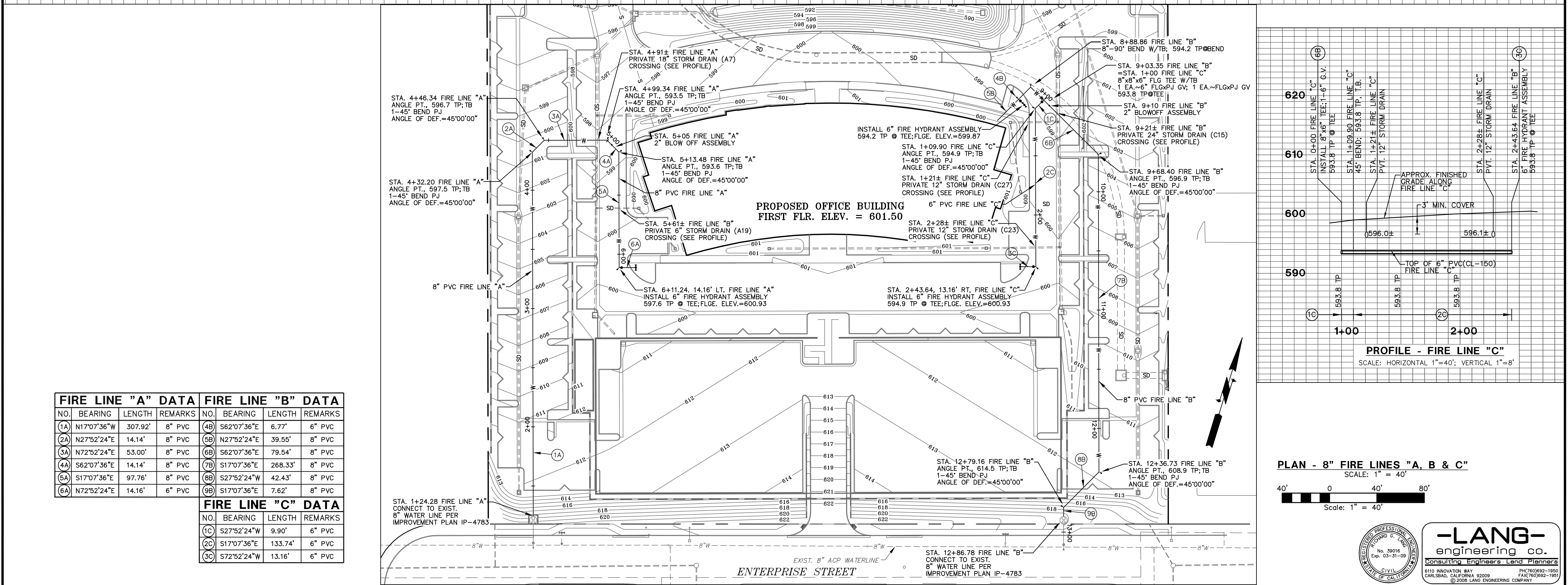
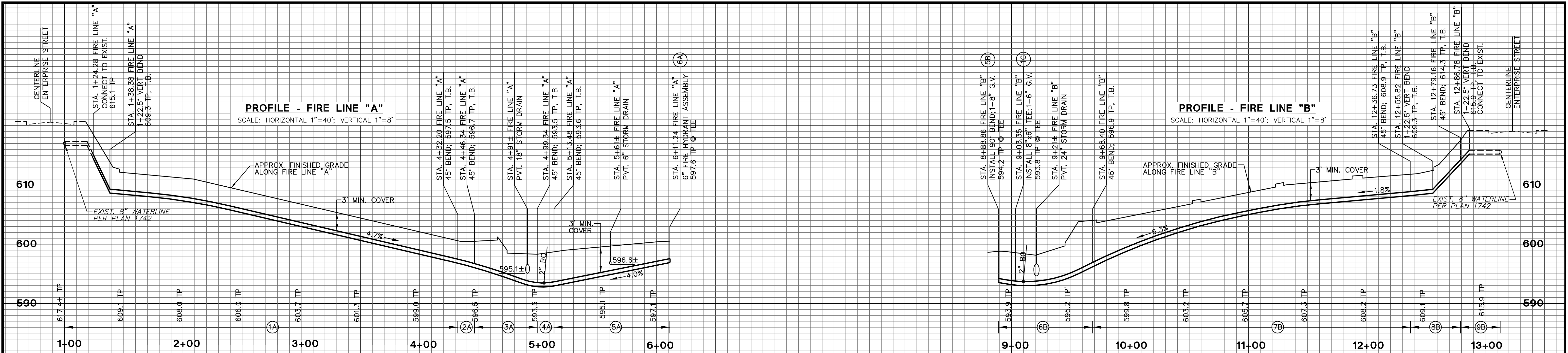
STANDARD PARKING STALLS (9' x 20')	COMPACT PARKING STALLS (8.5' x 20')	LOADING STALLS	H/C PARKING STALLS	TOTAL # OF SPACES PROVIDED	TOTAL # OF SPACES REQUIRED
534	34	3	12	583	560

NOTE: TOTAL NUMBER OF SPACES REQUIRED IS BASED ON THE REQUIREMENT OF 1 SPACE PER 200 SQUARE FEET OF GROSS FLOOR AREA. TOTAL GROSS FLOOR AREA FOR THE PROJECT IS 111,970 SQUARE FEET.



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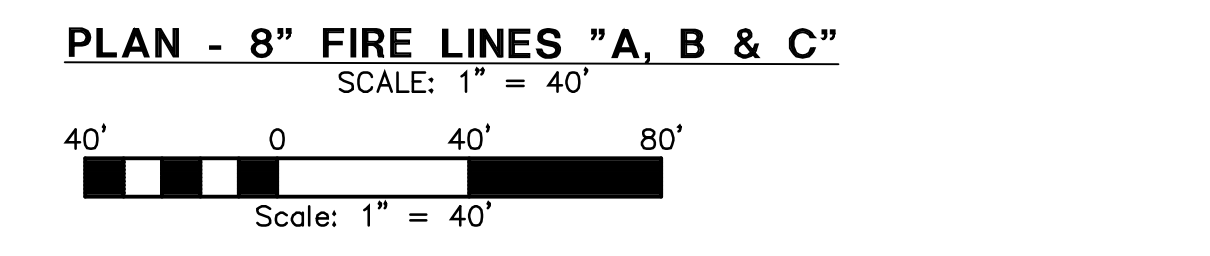
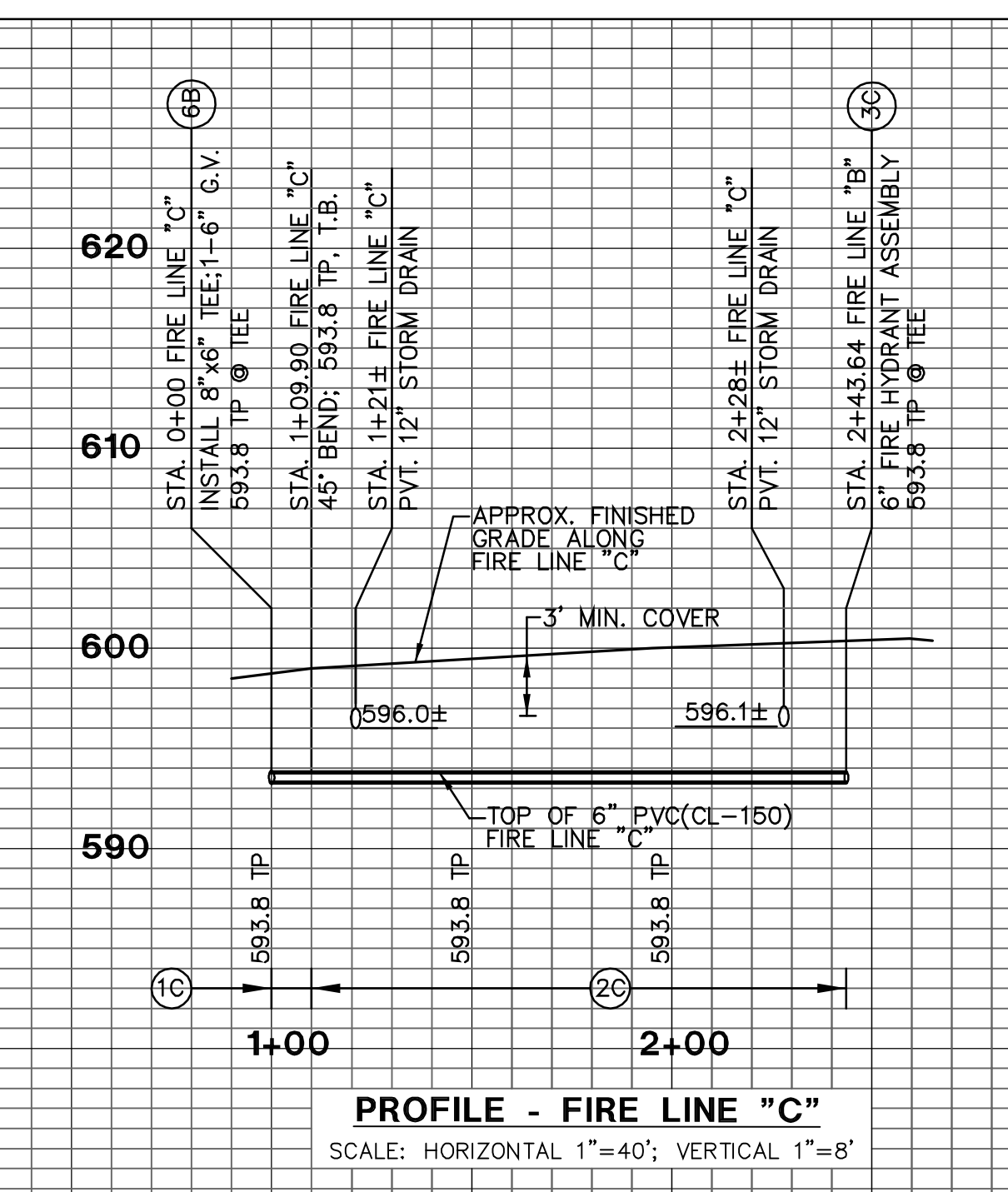
SAN MARCOS FIRE DEPARTMENT By: _____ Date: _____	VALLECITOS WATER DISTRICT GRADING PLAN ONLY By: _____ Date: _____	ENGINEER OF WORK By: Richard G. Lang, P.E. Date: _____ R.C.E.: 39016 exp: 03/31/09	CITY APPROVED CHANGES No. Description App'd By Date	RECOMMENDED FOR APPROVAL By: Sassan Haghgo, Deputy City Engineer R.C.E.: 42201 exp: 03/31/2010	APPROVED FOR CONSTRUCTION By: Michael D. Edwards, City Engineer R.C.E.: 32977 exp: 06/30/2010	BENCH MARK Description: Caltrans Monument 78-12.9 1988 CDH, 2 1/4" brass disc (PT #130 on Record of Survey 15928) Location: Brass disc in sidewalk at a point 66.7' south of the southeast corner of the Twin Oaks Valley Road bridge over Highway 78 Record From: Record of Survey 15928 Elev: 551.91 Datum: MSL	CITY OF SAN MARCOS ENGINEERING DIVISION <b>PAVEMENT SECTION PLAN</b> <b>CAMPUS POINTE MEDICAL CENTRE</b> SDP 06-319 TFM 651 City Drawing No. <b>GP-2407</b> MF 1599 Sheet 7 of 17 MAXIMO WO# 0815639
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FIRE LINE "A" DATA				FIRE LINE "B" DATA			
NO.	BEARING	LENGTH	REMARKS	NO.	BEARING	LENGTH	REMARKS
(1A)	N17°07'36"W	307.92'	8" PVC	(4B)	S62°07'36"E	6.77'	6" PVC
(2A)	N27°52'24"E	14.14'	8" PVC	(5B)	N27°52'24"E	39.55'	8" PVC
(3A)	N72°52'24"E	53.00'	8" PVC	(6B)	S62°07'36"E	79.54'	8" PVC
(4A)	S62°07'36"E	14.14'	8" PVC	(7B)	S17°07'36"E	268.33'	8" PVC
(5A)	S17°07'36"E	97.76'	8" PVC	(8B)	S27°52'24"W	42.43'	8" PVC
(6A)	N72°52'24"E	14.16'	6" PVC	(9B)	S17°07'36"E	7.62'	8" PVC

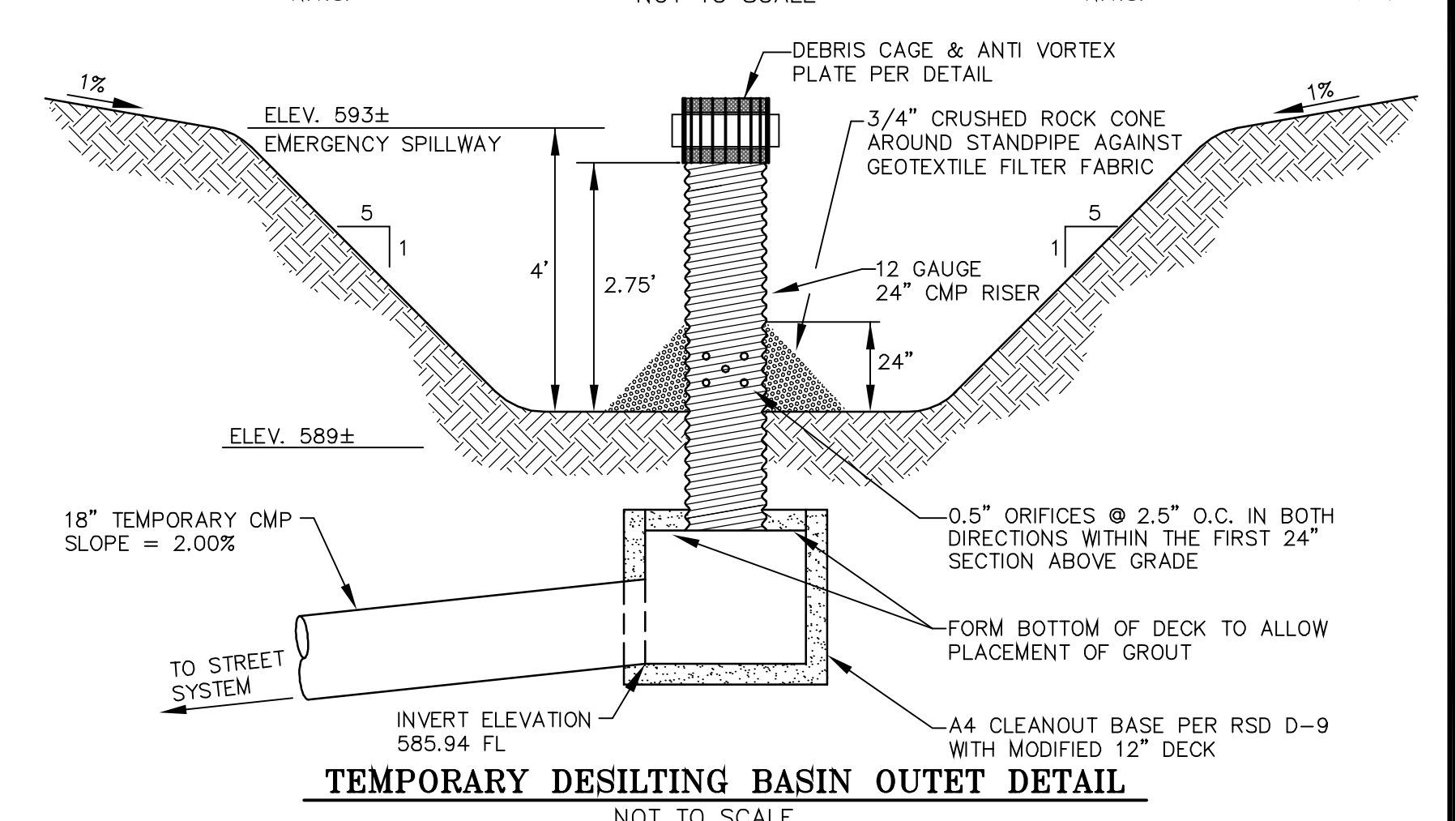
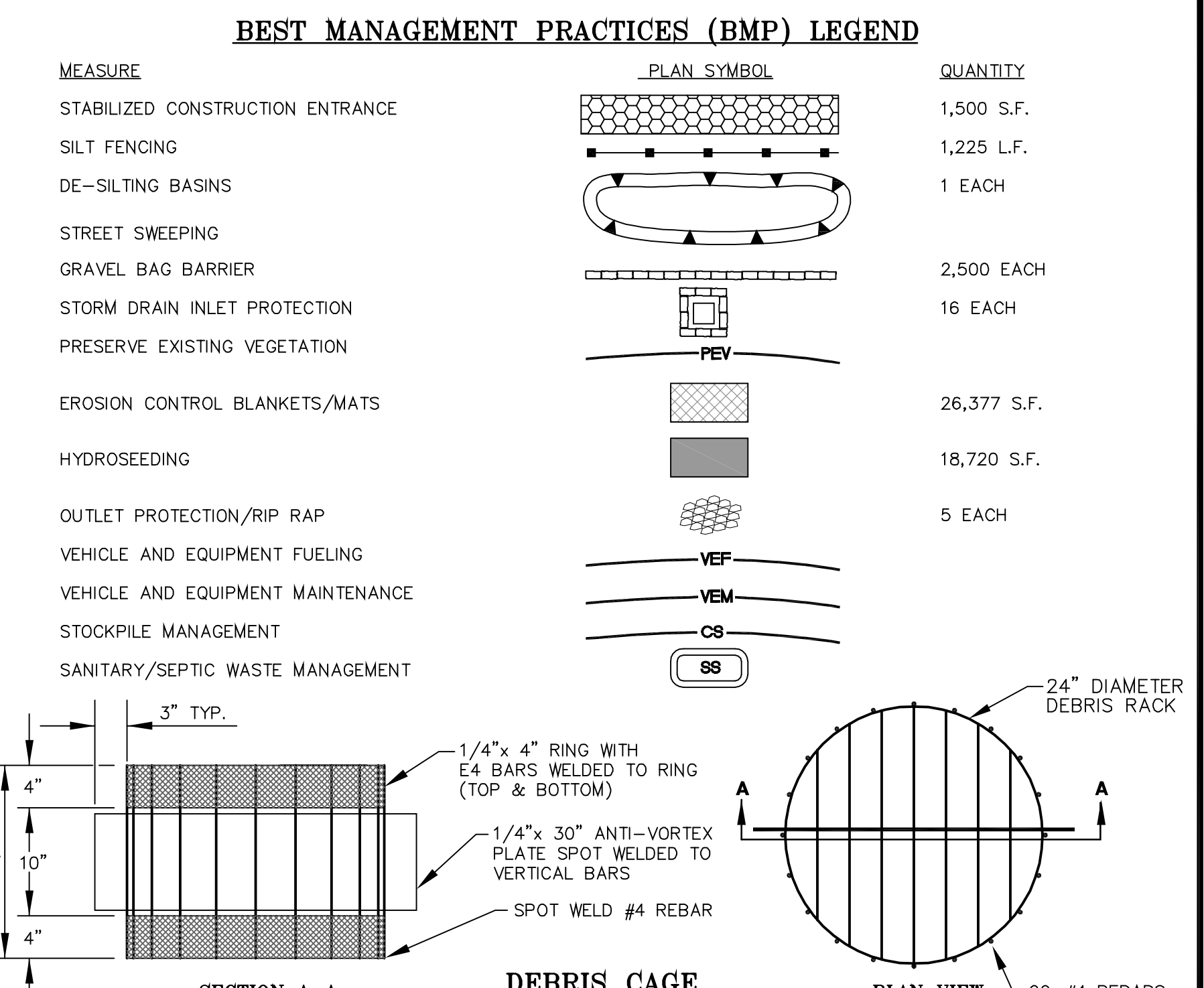
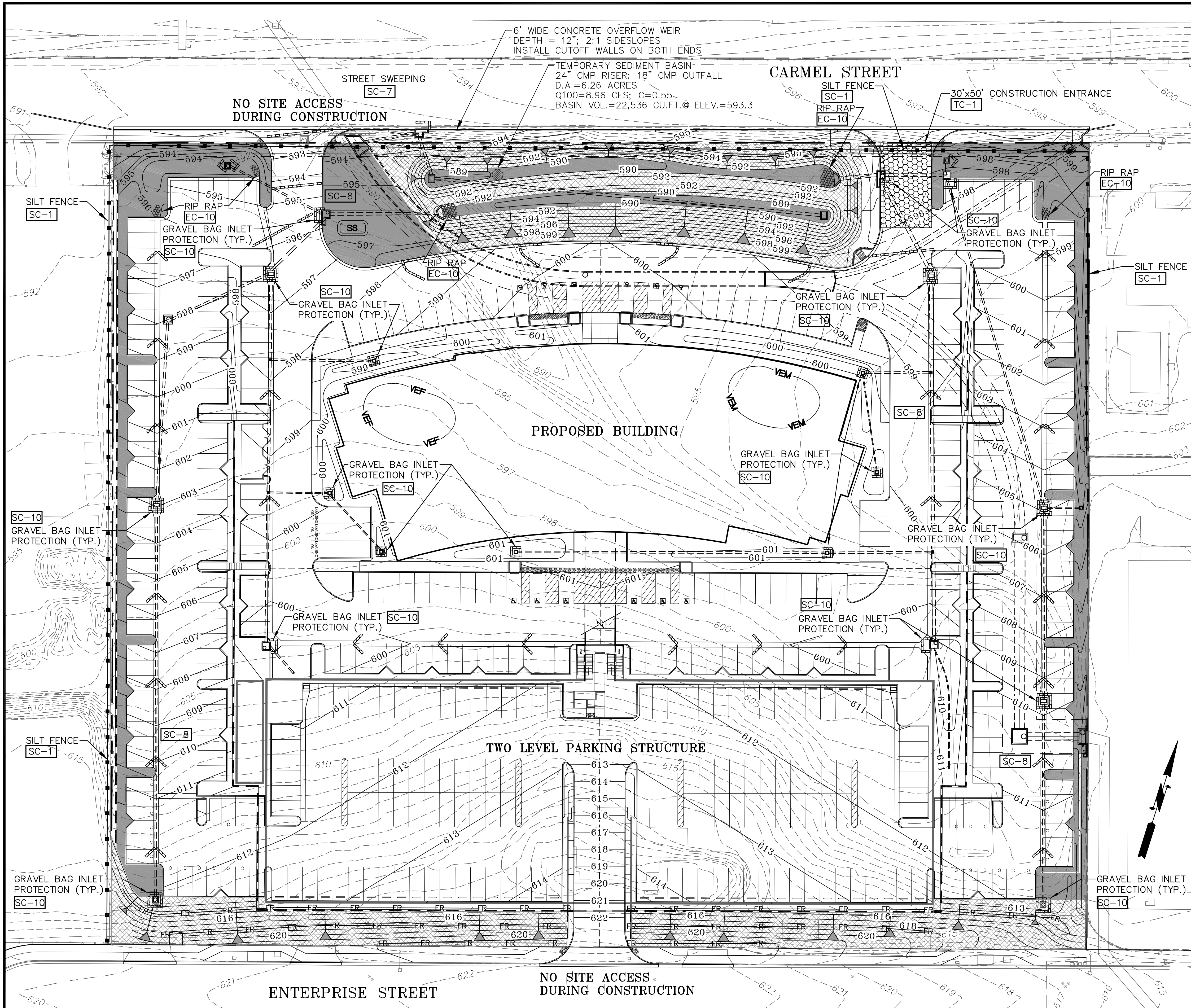
FIRE LINE "C" DATA			
NO.	BEARING	LENGTH	REMARKS
(1C)	S27°52'24"W	9.90'	6" PVC
(2C)	S17°07'36"E	133.74'	6" PVC
(3C)	S72°52'24"W	13.16'	6" PVC



SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT GRADING PLAN ONLY	ENGINEER OF WORK By: _____ Date: _____ Name: Richard G. Lang, P.E. R.C.E.: 39016 exp: 03/31/09	CITY APPROVED CHANGES No. Description App'd By/Date	RECOMMENDED FOR APPROVAL By: Sassan Haghgoo, Deputy City Engineer R.C.E.: 42201 exp: 03/31/2010 Date: _____	APPROVED FOR CONSTRUCTION By: Michael D. Edwards, City Engineer R.C.E.: 32977 exp: 06/30/2010 Date: _____	BENCH MARK Description: Caltrans Monument 78-12.9 1988 G.D.H. 2 1/4" Notes: disc in sidewalk at a point 66.7' south of the Location: southwest corner of the Twin Oaks Valley Road bridge over Highway 78 Record From: Record of Survey 13926 Elev.: 591.91' Datum: MSL	CITY OF SAN MARCOS ENGINEERING DIVISION PRIVATE FIRE LINE PLAN/PROFILES MF 1599 <b>CAMPUS POINTE MEDICAL CENTRE</b> SDP 06-319 TPM 651 Sheet 8 of 17	City Drawing No. <b>GP-2407</b>
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- ### EROSION CONTROL NOTES
- IN CASE EMERGENCY WORK IS REQUIRED, CONTACT ALEX ZIRPOLO AT: ELKINS-ZIRPOLO, INC.; PHONE NO.: (619) 239-3434.
  - EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY EROSION CONTROL DEVICES WHEN RAIN IS IMMINENT.
  - EROSION CONTROL DEVICES SHOWN ON PLANS SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OF THE PUBLIC WORKS INSPECTOR.
  - THE CONTRACTOR SHALL RESTORE ALL EROSION CONTROL DEVICES TO WORKING ORDER, INCLUDING SILT AND OTHER DEBRIS REMOVAL, TO THE SATISFACTION OF THE PUBLIC WORKS INSPECTOR AFTER EACH RUN-OFF PRODUCING RAINFALL.
  - THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE PUBLIC WORKS INSPECTOR DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES WHICH MAY ARISE.
  - THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
  - ALL EROSION CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON.
  - GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
  - ALL REMOVABLE PROTECTIVE EROSION CONTROL DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE FIVE-DAY RAIN PROBABILITY FORECAST EXCEEDS 40%.
  - ALL GRAVEL BAGS SHALL BE BURLAP WITH 3/8" INCH MINIMUM AGGREGATE.
  - SHOULD GERMINATION OF HYDROSEEDS FAIL TO PROVIDE EFFECTIVE COVERAGE (90%) OF GRADED SLOPES PRIOR TO NOVEMBER 15, THE SLOPES SHALL BE STABILIZED BY PUNCH STRAW.

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SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT GRADING PLAN ONLY	ENGINEER OF WORK By: Richard G. Lang, P.E. Date: 3/31/09 R.C.E.: 39016 exp: 03/31/09	CITY APPROVED CHANGES No. Description App'd By Date	RECOMMENDED FOR APPROVAL By: Sassan Haghgo, Deputy City Engineer R.C.E.: 42201 exp: 03/31/2010 Date:	APPROVED FOR CONSTRUCTION By: Michael D. Edwards, City Engineer R.C.E.: 32977 exp: 06/30/2010 Date:	BENCH MARK Description: Caltrans Monument "78-12.9 1988 CD" 2 1/4" brass disc (PI #1133 on Record of Survey 13928) Location: Brass disc in sidewalk at a point 66.7' south of the southwest corner of the Twin Oaks Valley Road bridge over Highway 78 Record From: Record of Survey 13928 Elev: 621.91 Datum: MSL	CITY OF SAN MARCOS ENGINEERING DIVISION EROSION / SEDIMENT CONTROL PLAN CAMPUS POINTE MEDICAL CENTRE SDP 06-319 TPM 651	City Drawing No. GP-2407 Sheet 9 of 17 MAXIMO WO# 0815639
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**BMP/WATER QUALITY SHEET LEGEND**

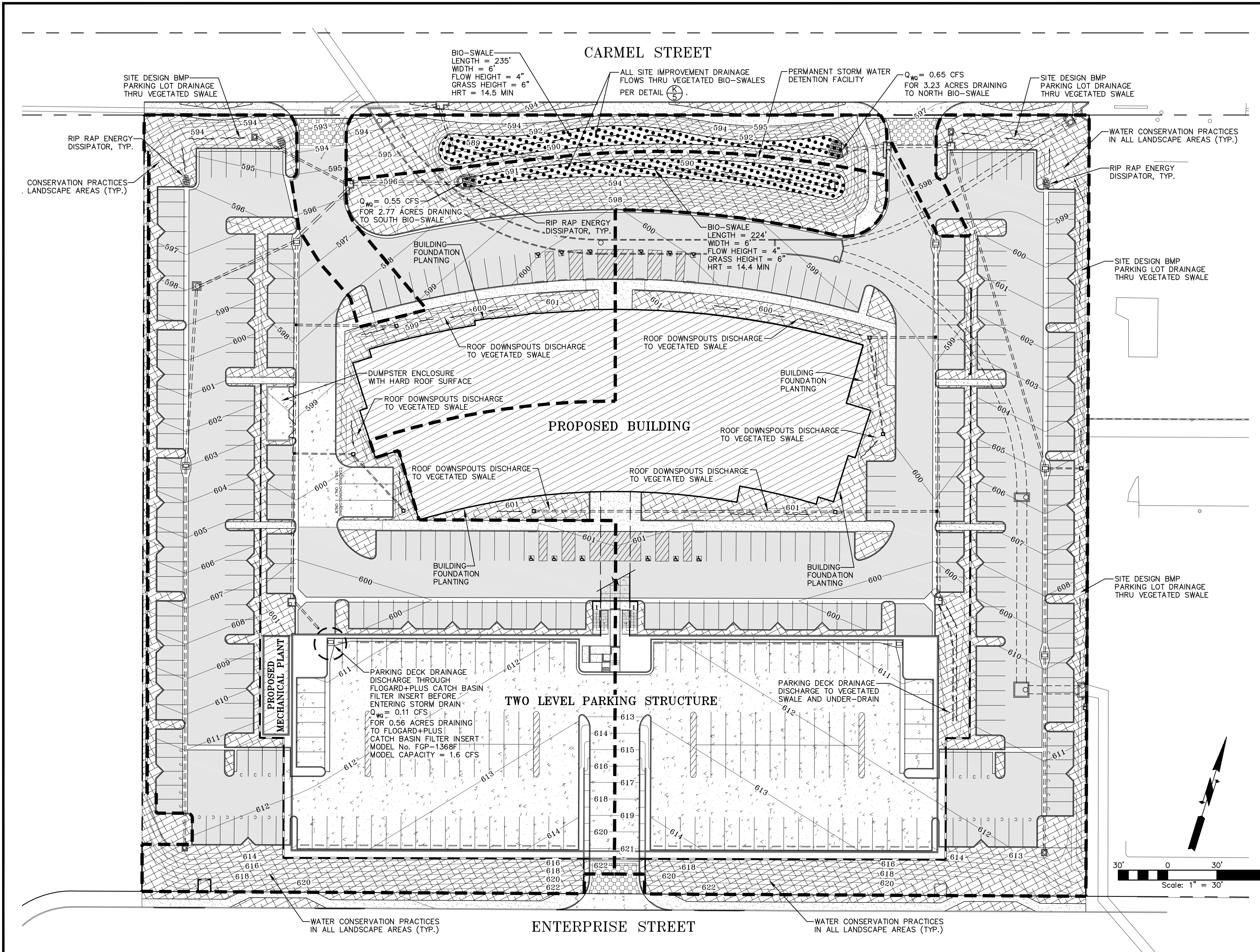
DESCRIPTION	PLAN SYMBOL
LANDSCAPE AREA (PERVIOUS AREA)	
BIO-SWALE AREA (PERVIOUS AREA)	
ASPHALTIC CONCRETE PAVEMENT (IMPERVIOUS AREA)	
PORTLAND CEMENT CONCRETE PAVEMENT (IMPERVIOUS AREA)	
PORTLAND CEMENT CONCRETE SIDEWALK (IMPERVIOUS AREA)	
CONCRETE PAVERS (IMPERVIOUS AREA)	
PROPOSED BUILDING (IMPERVIOUS AREA)	
TREATMENT CONTROL BMP DRAINAGE AREA	
DIRECTION OF SURFACE FLOW	
FLOGARD+PLUS CATCH BASIN FILTER INSERT	

**TREATMENT CONTROL AND EXPECTED POLLUTANT TABLE**

TREATMENT CONTROL BMP	ANTICIPATED POLLUTANTS	POTENTIAL POLLUTANTS
BIO-SWALE	HEAVY METALS TRASH AND DEBRIS OIL AND GREASE	
BIO-SWALE		SEDIMENTS NUTRIENTS ORGANIC COMPOUNDS OXYGEN DEMANDING SUBSTANCES PESTICIDES
FLOGARD+PLUS CATCH BASIN FILTER INSERT	HEAVY METALS TRASH AND DEBRIS OIL AND GREASE	
FLOGARD+PLUS CATCH BASIN FILTER INSERT		N/A, NO LANDSCAPING ON PARKING STRUCTURE

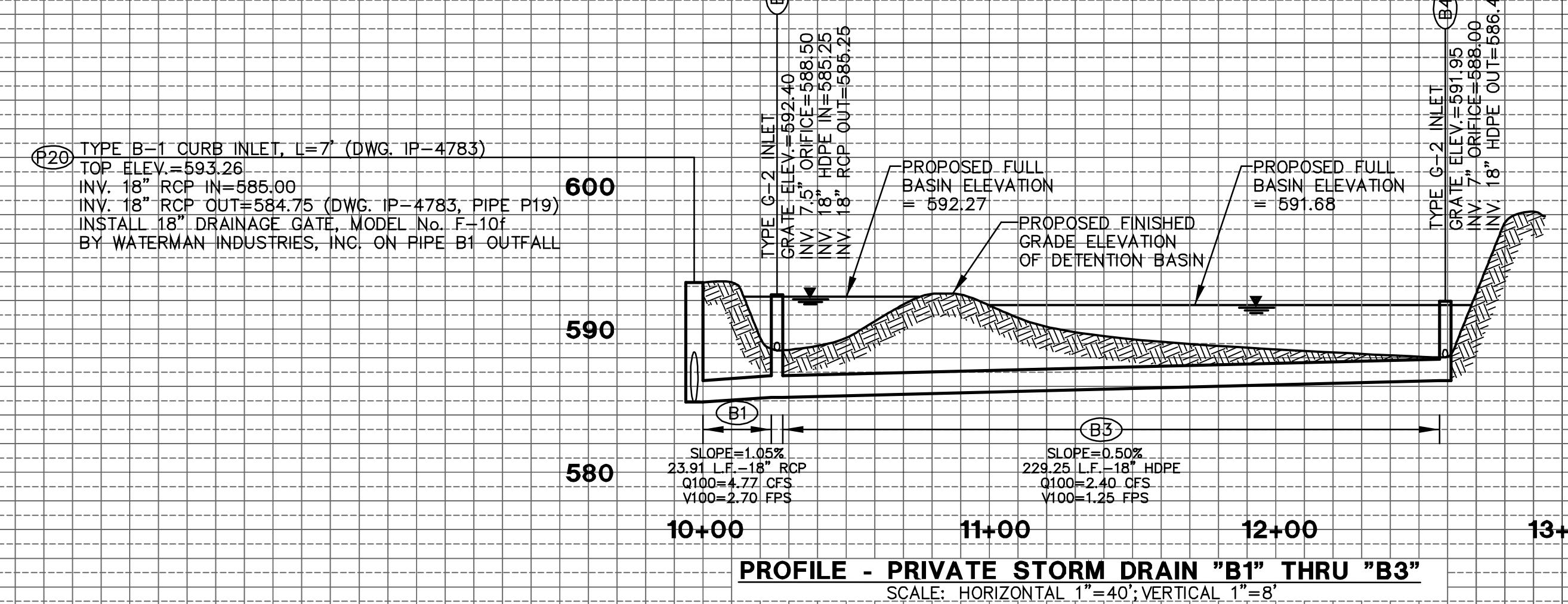
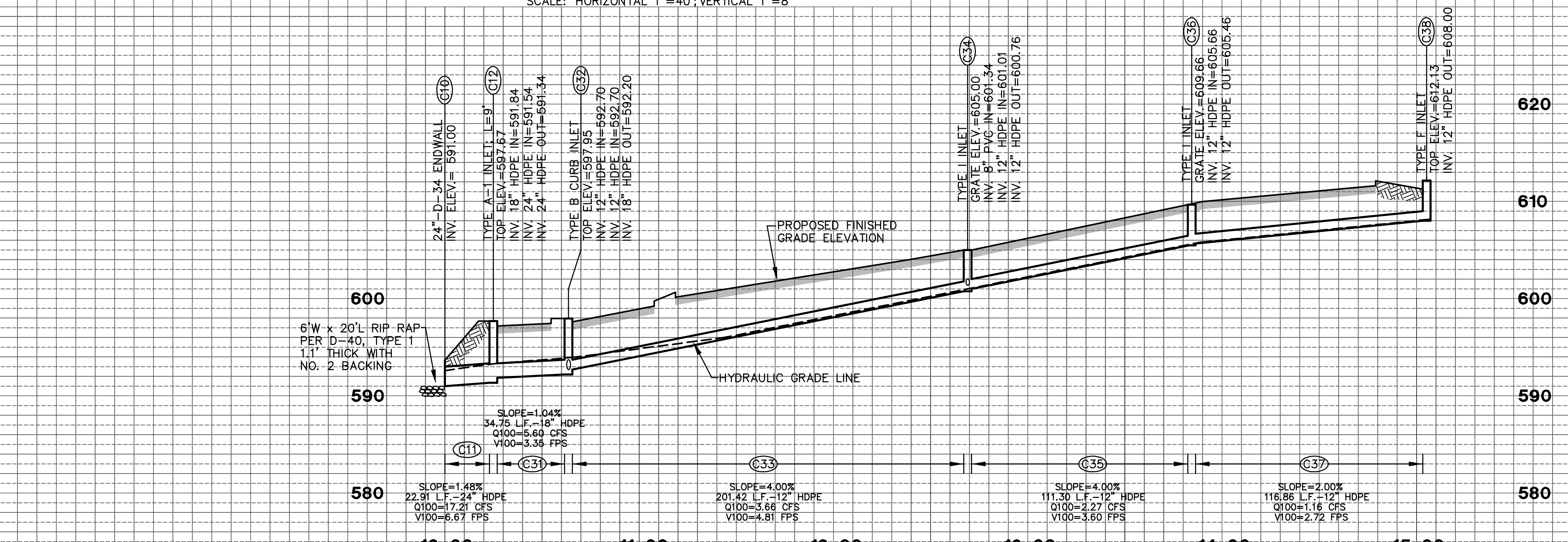
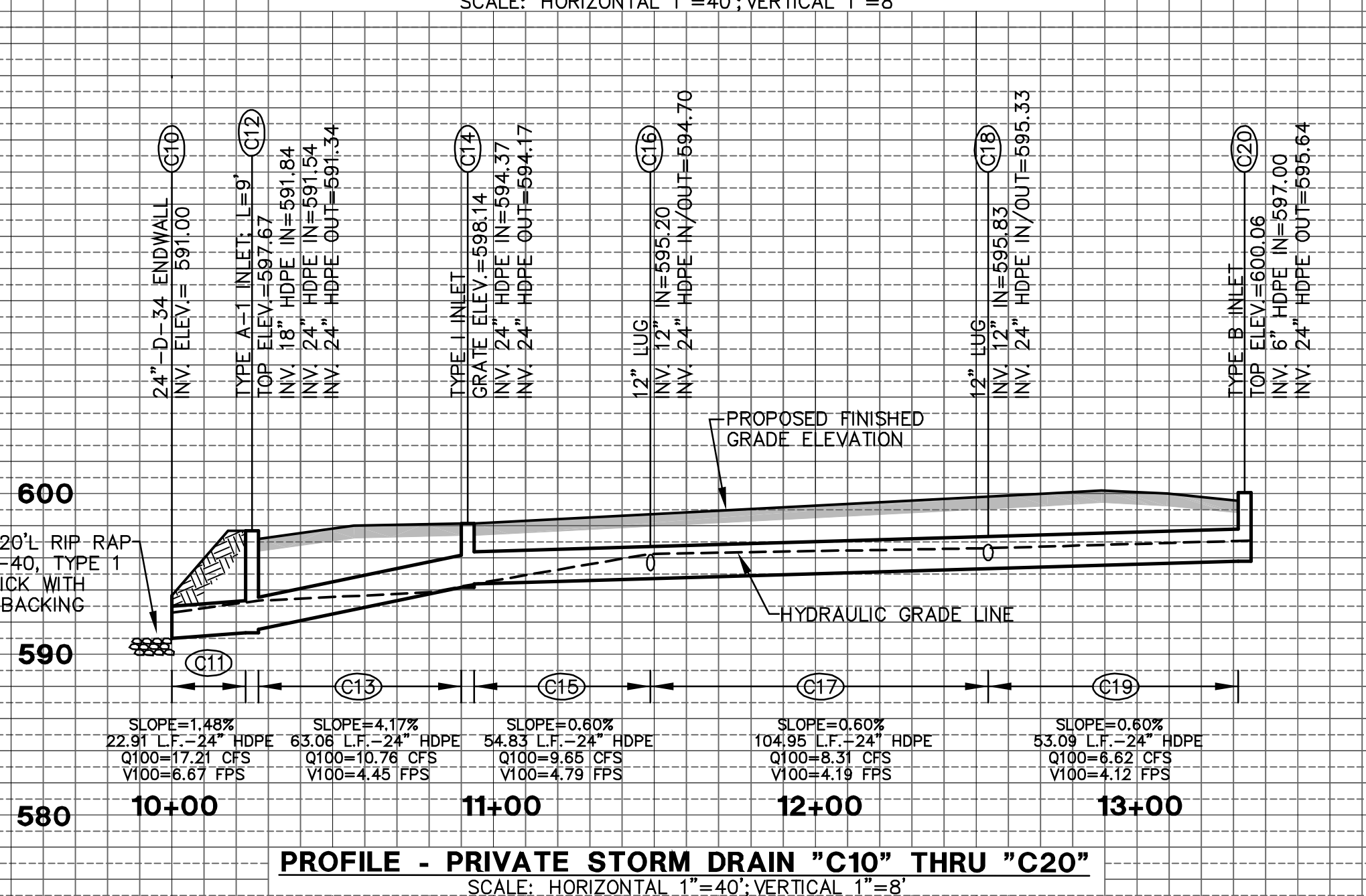
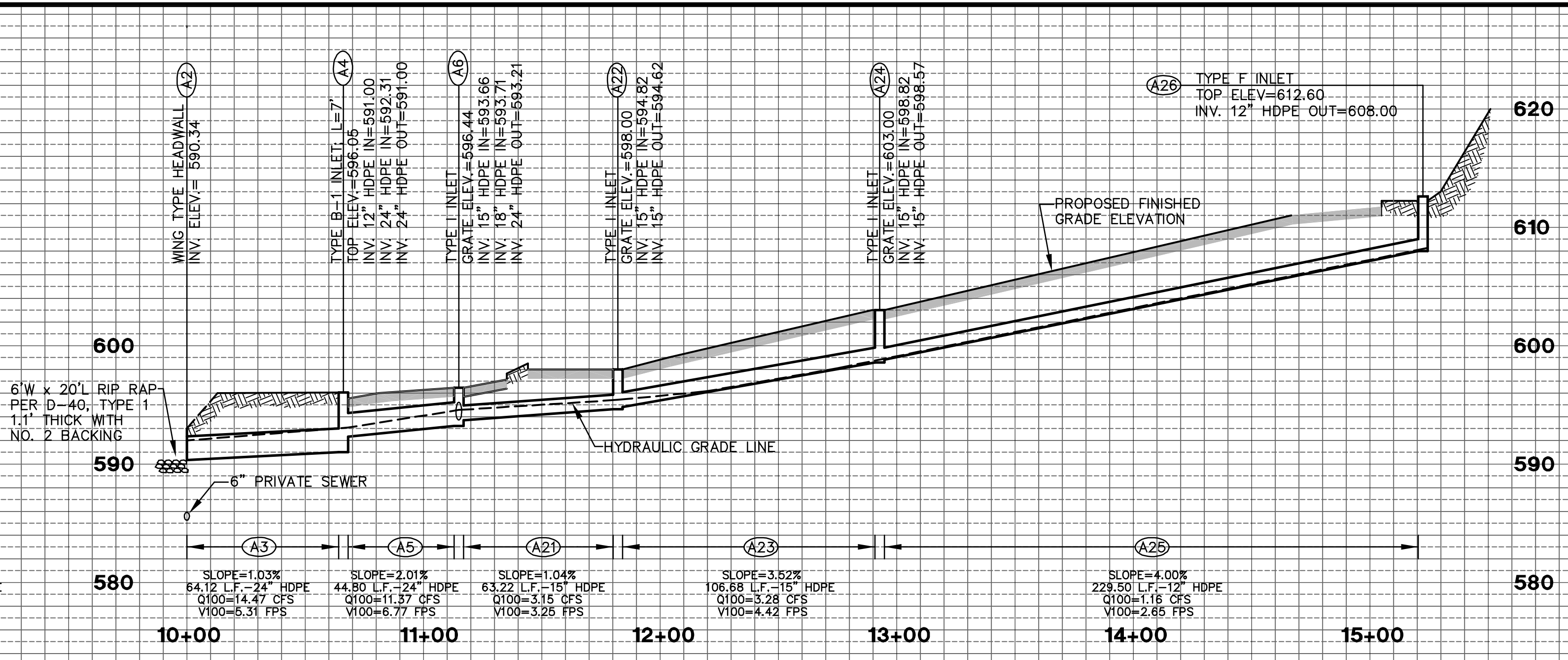
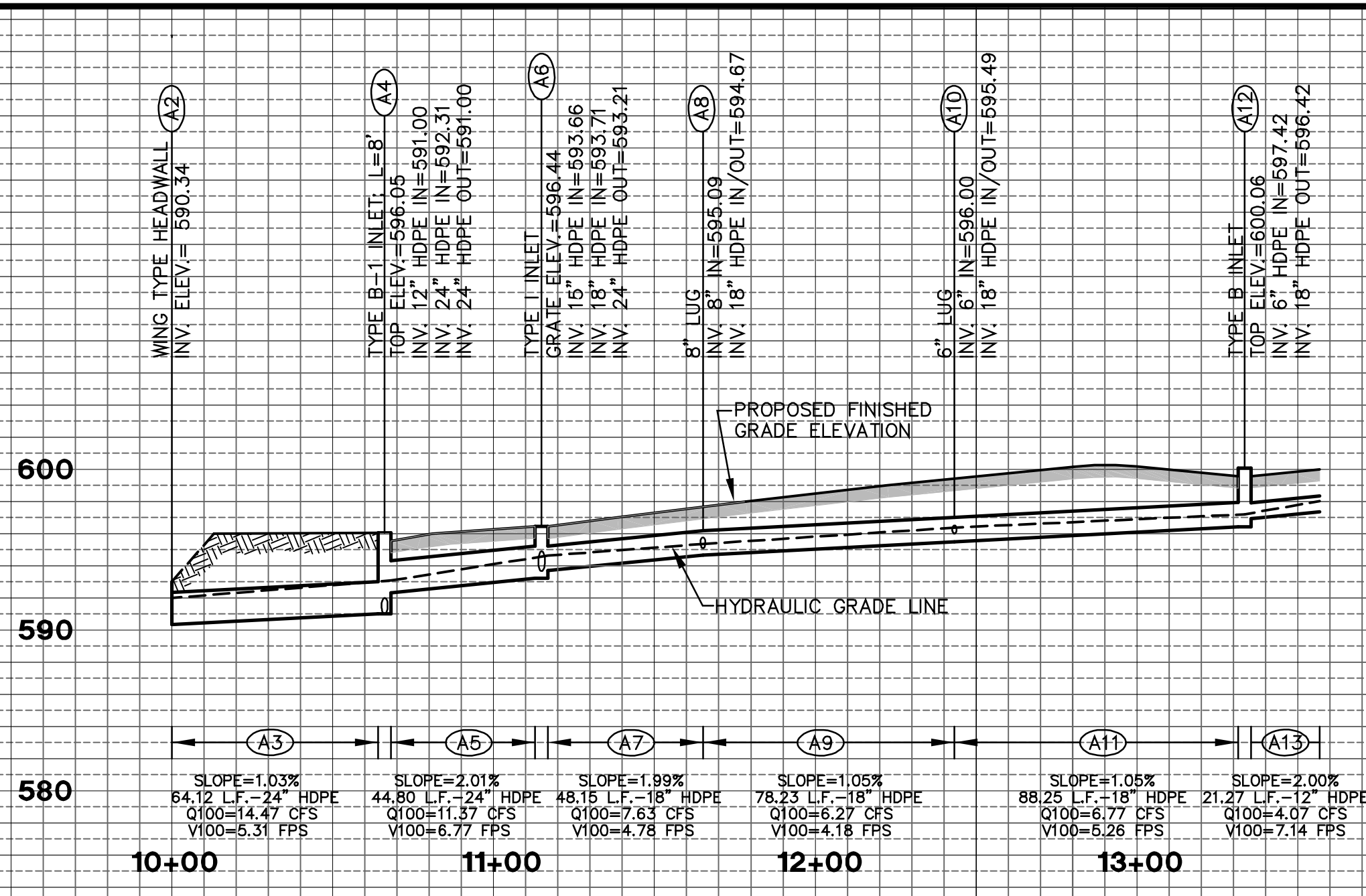
**SITE DESIGN AND SOURCE CONTROL BMP LIST**

- SITE DESIGN BMPS**
- 100% OF BUILDING ROOF RUNOFF DISCHARGES TO LANDSCAPE AREAS
  - 50% OF UPPER LEVEL OF PARKING STRUCTURE DISCHARGES TO LANDSCAPE AREAS
  - 1.28 ACRES OF THE PARKING LOT DRAIN TO LANDSCAPE AREAS
  - 0.56 ACRES OF THE PARKING STRUCTURE DRAINS TO A CATCH BASIN FILTER INSERT
  - 6.14 ACRES OF SITE (6.26 ACRES TOTAL) IS TREATED BY TREATMENT CONTROL BMPS
  - RIP RAP ENERGY DISSIPATORS FOR CONCENTRATED FLOW
  - STORM WATER DETENTION FACILITY
  - PARKING STRUCTURE TO MINIMIZE IMPERVIOUS FOOTPRINT
  - DRIVE AISLES AND PARKING STALLS DESIGN TO REQUIRED MINIMUM WIDTHS
- SOURCE CONTROL BMPS**
- STORM DRAIN INLET STENCILING
  - COVERED OUTDOOR TRASH AREA
  - EFFICIENT IRRIGATION SYSTEM
  - INTEGRATED PEST MANAGEMENT PRINCIPLES
  - TENANT EDUCATION PROGRAM AND BROCHURES
  - REGULAR PARKING LOT CLEANING AND SWEEPING



SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT GRADING PLAN ONLY	ENGINEER OF WORK By: Richard G. Lana, P.E. Date: 03/31/09 R.C.E.: 39016 exp: 03/31/09	CITY APPROVED CHANGES No. Description App'd By Date	RECOMMENDED FOR APPROVAL By: Sassan Haghighi, Deputy City Engineer R.C.E.: 42201 exp: 03/31/2010 Date:	APPROVED FOR CONSTRUCTION By: Michael D. Edwards, City Engineer R.C.E.: 32977 exp: 06/30/2010 Date:	BENCH MARK Description: Caltrans Monument #78-12.9 1988 CHL 2 1/4" Elev: 611.90 Location: Brass disc in sidewalk of a point 657' south of the southwest corner of the Twin Oaks Valley Road bridge over Highway 78 Record From: Record of Survey 13928 Elev: 611.91 Datum: MSL	CITY OF SAN MARCOS ENGINEERING DIVISION <b>BMP/WATER QUALITY PLAN</b> <b>CAMPUS POINTE MEDICAL CENTRE</b> SDP 06-319 TPM 651	City Drawing No. <b>GP-2407</b> Sheet 10 of 17 MAXIMO WO# 0815639
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SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT GRADING PLAN ONLY	ENGINEER OF WORK By: _____ Date: _____ Name: Richard G. Lang, P.E. R.C.E.: 39016 exp.: 03/31/09	CITY APPROVED CHANGES No. Description App'd By/Date	RECOMMENDED FOR APPROVAL By: Sassan Haghgoo, Deputy City Engineer R.C.E.: 42201 exp.: 03/31/2010 Date: _____	APPROVED FOR CONSTRUCTION By: Michael D. Edwards, City Engineer R.C.E.: 32977 exp.: 06/30/2010 Date: _____	BENCH MARK Description: Caltrans Monument "8-12.9 1988 QM" 2 1/4" brass disc (PI #1130 on Record of Survey 13923) Location: Brass disc in sidewalk at a point 66.7' south of the southwest corner of the Twin Oaks Valley Road bridge over Highway 78. Record From: Record of Survey 13923 Elev.: 581.91 Datum: MSL	CITY OF SAN MARCOS ENGINEERING DIVISION <b>CAMPUS POINTE MEDICAL CENTRE</b> SDP 06-319 TPM 651	City Drawing No. <b>GP-2407</b> Sheet 11 of 17 MAXIMO WO# 0815639
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VERIFICATION AND INSPECTION TASK	TYPE OF TASK	FREQUENCY
1704.5 MASONRY CONSTRUCTION ○ PRIOR TO CONSTRUCTION-PROVIDE VERIFICATION OF THE COMPRESSIVE STRENGTH (fm) IN ACCORDANCE WITH ARTICLE 1.4b OF ACI 530/ASCE 5 AND REVIEW CERTIFICATES FOR MATERIALS USED INDICATING COMPLIANCE WITH CONTRACT DOCUMENTS. (FOR SEISMIC RESISTANCE QA LEVEL 1 PER TABLE 1708.1.2.)	SUBMITTAL REVIEW/LABORATORY TESTS	N/A
○ PRIOR TO CONSTRUCTION-PROVIDE VERIFICATION OF THE COMPRESSIVE STRENGTH (fm) IN ACCORDANCE WITH ARTICLE 1.4b OF ACI 530/ASCE 5 AND FOR EVERY 5000 SQUARE FEET DURING CONSTRUCTION. REVIEW CERTIFICATES FOR MATERIALS USED INDICATING COMPLIANCE WITH CONTRACT DOCUMENTS AND VERIFY PROPORTIONS OF MATERIALS IN MORTAR AND GROUT AS DELIVERED TO THE SITE. (FOR SEISMIC RESISTANCE QA LEVEL 2 PER TABLE 1708.1.4.)	SUBMITTAL REVIEW/LABORATORY TESTS	N/A
● AS MASONRY CONSTRUCTION BEGINS, VERIFY PROPORTIONS OF SITE PREPARED MORTAR, CONSTRUCTION OF MORTAR JOINTS AND LOCATION OF REINFORCEMENT, CONNECTORS, JAMB BARS, AND ANCHORAGES.	FIELD INSPECTION	PERIODIC
● VERIFY SIZE AND LOCATION OF STRUCTURAL ELEMENTS	FIELD INSPECTION	PERIODIC
○ VERIFY ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER ELEMENTS PER THE CONSTRUCTION DOCUMENTS. VERIFY TYPE, SIZE AND LOCATION OF ANCHORS.	FIELD INSPECTION	LEVEL 1- PERIODIC LEVEL 2- CONTINUOUS
● VERIFY REINFORCEMENT SIZE, GRADE AND TYPE.	FIELD INSPECTION/REVIEW CERTIFIED MILL TEST REPORTS FOR EACH SHIPMENT	PERIODIC
○ INSPECT WELDING OF REINFORCING BARS	SHOP/FIELD INSPECTION	CONTINUOUS
○ INSPECT PROTECTION OF MASONRY DURING COLD WEATHER (TEMP BELOW 40 DEGREES F) OR HOT WEATHER (TEMP ABOVE 90 DEGREES F).	FIELD INSPECTION	PERIODIC
● PRIOR TO GROUTING, VERIFY THE GROUT SPACE IS CLEAN, VERIFY THE PLACEMENT OF THE REINFORCEMENT, CONNECTORS AND ANCHORAGES, AND THE CONSTRUCTION OF MORTAR JOINTS.	FIELD INSPECTION	CONTINUOUS
● GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS.	FIELD INSPECTION	CONTINUOUS
● OBSERVE SAMPLING AND PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND PRISM SPECIMENS.	FIELD INSPECTION	CONTINUOUS
● VERIFY COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS.	FIELD INSPECTION/ SUBMITTAL REVIEW	PERIODIC

**SPECIAL INSPECTIONS & TESTING (IBC CHAPTER 17)**

- SPECIAL INSPECTIONS AND TESTING SHALL MEET THE REQUIREMENTS OF IBC SECTION 1704, 1707 AND 1708.
- SPECIAL INSPECTORS SHALL:
  - BE EMPLOYED BY THE OWNER AND ACT AS THE OWNER'S AGENT PER IBC SECTION 1704.1.
  - BE CERTIFIED BY PUBLIC WORKS TO PERFORM THE TYPES OF INSPECTIONS SPECIFIED.
  - PREPARE REPORTS THAT SHALL BE SIGNED BY A [STATE] REGISTERED CIVIL ENGINEER.
  - OBSERVE THE WORK ASSIGNED FOR COMFORMANCE WITH APPROVED DRAWINGS AND SPECIFICATIONS.
  - FURNISH INSPECTION REPORTS TO THE ENGINEER AND PUBLIC WORKS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION; THEN, IF NOT CORRECTED, TO THE ENGINEER AND PUBLIC WORKS PER IBC SECTION 1704.1.2.
  - SUBMIT TO THE ENGINEER AND PUBLIC WORKS A CERTIFICATE OF SATISFACTORY COMPLETION OF WORK REQUIRING SPECIAL INSPECTION, SIGNED BY A [STATE] REGISTERED CIVIL ENGINEER, STATING THAT THE WORK WAS IN CONFORMANCE WITH THE APPROVED DRAWINGS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE IBC.
- SUMMARY OF CONTINUOUS AND PERIODIC INSPECTIONS:
  - CONSTRUCTION INSPECTIONS LISTED ARE IN ADDITION TO THE CALLED INSPECTIONS REQUIRED BY IBC SECTION 109. SPECIAL INSPECTION IS NOT A SUBSTITUTE FOR INSPECTION BY A BUILDING OFFICIAL. SPECIALLY INSPECTED WORK WHICH IS INSTALLED OR COVERED WITHOUT THE APPROVAL OF THE BUILDING OFFICIAL IS SUBJECT TO REMOVAL OR EXPOSURE.
  - CONTINUOUS INSPECTION IS REQUIRED DURING THE PERFORMANCE OF THE WORK UNLESS OTHERWISE SPECIFIED.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM THE SPECIAL INSPECTOR OR INSPECTION AGENCY AT LEAST ONE WORKING DAY BEFORE PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION.
- OFF-SITE FABRICATION:
  - SUBMIT APPLICATION TO PUBLIC WORKS FOR APPROVAL PRIOR TO FABRICATION.
  - SUBMIT A CERTIFICATE OF COMPLIANCE FOR OFF-SITE FABRICATION TO PUBLIC WORKS PRIOR TO ERECTION OF PREFABRICATED COMPONENTS.

**SCHEDULE OF REQUIRED SPECIAL INSPECTIONS (2006 IBC)**

VERIFICATION AND INSPECTION TASK	TYPE OF TASK	FREQUENCY
1704.7 SOILS ● VERIFY MATERIALS BELOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	FIELD INSPECTION	PERIODIC
● VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	FIELD INSPECTION	PERIODIC
● PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.	FIELD INSPECTION	PERIODIC
● PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THE SITE HAS BEEN PROPERLY PREPARED AND COMPLIES WITH THE APPROVED SOILS REPORT.	FIELD INSPECTION	PERIODIC
● VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	FIELD INSPECTION	PERIODIC

1704.4 CONCRETE CONSTRUCTION ● INSPECTION OF FORMWORK (IF APPLIES) FOR SHAPE, LOCATION AND DIMENSION OF THE CONCRETE MEMBER BEING FORMED.	FIELD INSPECTION	PERIODIC
● INSPECTION OF REINFORCING STEEL AND PLACEMENT.	FIELD INSPECTION	PERIODIC
○ INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE	FIELD INSPECTION	CONTINUOUS
● VERIFY USE OF APPROVED MIX DESIGN	SUBMITTAL REVIEW	N/A
● SAMPLE FRESH CONCRETE. PERFORM SLUMP, AIR CONTENT, AND TEMPERATURE TESTS. FABRICATE SPECIMENS FOR STRENGTH TESTS.	FIELD TESTING	CONTINUOUS
● INSPECT CONCRETE (AND SHOTCRETE) PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	FIELD INSPECTION	CONTINUOUS
● INSPECT FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	FIELD INSPECTION	PERIODIC
○ VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO REMOVAL OF SHORING AND FORMWORK FROM BEAMS AND STRUCTURAL SLABS.	FIELD TESTING AND LABORATORY REPORT REVIEW	PERIODIC
○ PRESTRESSED CONCRETE: INSPECT THE APPLICATION OF PRE-STRESSING FORCES AND GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC FORCE RESISTING SYSTEM	IN-PLANT/FIELD INSPECTION	CONTINUOUS
○ PRE-CAST CONCRETE: INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	FIELD INSPECTION	PERIODIC
○ POST-TENSIONED CONCRETE: VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS	FIELD TESTING AND LABORATORY REPORT REVIEW	PERIODIC
FOR INSPECTION OF REINFORCING STEEL WELDING SEE 1704.3 STEEL CONSTRUCTION INSPECTION NOTES		
○ SPECIAL CONCRETE INSPECTIONS ARE NOT REQUIRED FOR SPREAD FOOTINGS AND CONTINUOUS FOOTINGS FOR LIGHT FRAME CONSTRUCTION OF 3 stories or less WHERE THE DESIGN fc < 2500psi		
○ SPECIAL CONCRETE INSPECTIONS ARE NOT REQUIRED FOR NON STRUCTURAL SLABS ON GRADE.		

**FOUNDATION**

- THE SOILS REPORT RECOMMENDATIONS SHALL BE COMPLIED WITH BY THE CONTRACTOR.
- SOILS INFORMATION:  
SEE SOILS REPORT BY: ROBERT PRATER ASSOCIATES  
DATED: MARCH 1999  
FOUNDATION MATERIAL:  
SOIL DESIGN PARAMETERS:  
ALLOWABLE BEARING PRESSURE.....3500 PSF  
CANTILEVER ACTIVE (LEVEL).....35 PCF  
CANTILEVER ACTIVE (3:1 SLOPE).....40 PCF  
CANTILEVER ACTIVE (2:1 SLOPE).....50 PCF  
LATERAL BEARING (PASSIVE) PRESSURE.....300 PCF  
COEFFICIENT OF FRICTION.....0.35  
MINIMUM CONTINUOUS FOOTING WIDTH.....12 INCHES  
BOTTOM OF FOOTINGS SHALL BE AT LEAST 18 INCHES BELOW LOWEST ADJACENT GRADE.
- ALL FOUNDATION WORK SHALL BE FOUNDED ON FIRM UNDISTURBED NATURAL SOILS OR APPROVED COMPACTED SOILS.
- ALL SITE SOIL WORK SHALL BE DONE UNDER THE DIRECT OBSERVATION OF THE SOILS ENGINEER.
- SOILS ENGINEER SHALL VERIFY IN WRITING TO THE ENGINEER THAT SITE SOIL WORK COMPLIES WITH ALL OF THE RECOMMENDATIONS AND CONCLUSIONS OF THE SOILS REPORT.
- THE FINISH EXCAVATION FOR FOUNDATIONS SHALL BE NEAT & TRUE TO LINE.
- FOUNDATION EXCAVATIONS SHALL BE KEPT FREE OF LOOSE MATERIAL AND STANDING WATER AND SHALL BE CHECKED AND APPROVED BY THE SOILS ENGINEER BEFORE THE PLACEMENT OF ANY CONCRETE.
- THE TESTING LAB SHALL SUBMIT COMPACTION REPORTS FOR ALL FILL TO THE ENGINEER BEFORE REQUESTING FOUNDATION INSPECTION. ALL LOOSE SOIL AND FILL DIRT, INCLUDING BACKFILL BEHIND RETAINING WALLS, SHALL BE COMPACTED TO AT LEAST 90% OF MAXIMUM DENSITY, OR GREATER AS REQUIRED BY THE SOILS REPORT.
- BACKFILL FOR ALL RETAINING WALLS SHALL BE NON-EXPANSIVE PERVIOUS MATERIAL APPROVED BY THE SOILS ENGINEER AND SHALL NOT BE PLACED UNTIL MASONRY OR CONCRETE RETAINING MEMBERS HAVE BEEN IN PLACE A MINIMUM OF 14 DAYS AND HAVE OBTAINED 75% OF THE DESIGN STRENGTH.
- PROVIDE TEMPORARY SHORING FOR ALL WALLS RETAINING EARTH, PRIOR TO BACKFILLING.
- TEMPORARY SHORING FOR ALL RETAINING WALLS REQUIRING PERMANENT STRUCTURAL SUPPORT AT THE TOP OF THE WALL SHALL REMAIN IN PLACE UNTIL SUCH SUPPORTS ARE INSTALLED, AND IN THE CASE OF CONCRETE SUPPORTS, THE SHORING SHALL REMAIN IN PLACE A MINIMUM OF 7 DAYS AFTER CONCRETE PLACEMENT.

**REINFORCED CONCRETE (IBC CHAPTER 19)**

- CEMENT SHALL CONFORM TO ASTM C150, TYPE II.
  - AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33.
  - READY-MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C94.
  - CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", EXCEPT AS MODIFIED BY THESE NOTES. CONCRETE SHALL BE STANDARD WEIGHT CONCRETE (145 PCF) AND HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS AS FOLLOWS:
- | ELEMENT              | STRENGTH | AGG | W/C RATIO (MAX) |
|----------------------|----------|-----|-----------------|
| FOOTINGS.....        | 3000 PSI | 1"  | .57             |
| WALLS & COLUMNS..... | 3000 PSI | 1"  | .45             |
- CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR CONCRETE DESIGN STRENGTHS EXCEEDING 2500 PSI.
  - CONCRETE SHALL BE PROPORTIONED SUCH THAT THE 7 DAY STRENGTHS ARE A MINIMUM OF SEVENTY PERCENT OF THE SPECIFIED 28 DAY STRENGTH FOR ANY CONCRETE CONSTRUCTION REQUIRING SHORING, BRACING OR TO RECEIVE CONSTRUCTION LOADS. ALSO, SLABS ON GRADE SHALL HAVE A COMPRESSION STRENGTH OF 1800 PSI MINIMUM AT 3 DAYS IF SUBJECT TO CONSTRUCTION TRAFFIC.
  - ADMIXTURES MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER. ADMIXTURES SHALL COMPLY WITH ASTM C494 & C1017 AND BE OF A TYPE THAT INCREASES THE WORKABILITY OF THE CONCRETE, BUT SHALL NOT BE CONSIDERED TO REDUCE THE SPECIFIED MINIMUM CEMENT CONTENT (CALCIUM CHLORIDE SHALL NOT BE USED).
  - ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS, HOLD-DOWN ANCHORS AND INSERTS SHALL BE WELL SECURED IN POSITION WITH WIRE POSITIONERS PRIOR TO FOUNDATION INSPECTION AND BEFORE PLACING CONCRETE.
  - CONCRETE CURING: SEE SPECIFICATIONS.
  - PROJECTING CORNERS OF SLABS, BEAMS, WALLS, COLUMNS, ETC., SHALL BE FORMED WITH A 3/4" CHAMFER.
  - REFER TO DRAWINGS OF OTHER DISCIPLINES FOR MOLDS, GROOVES, CLIPS, ORNAMENTS, OR GROUNDS REQUIRED TO BE CAST INTO CONCRETE.
  - LOCATION OF ALL CONSTRUCTION, CONTROL AND WEAKENED PLANE JOINTS NOT SPECIFICALLY INDICATED ON THE DRAWINGS SHALL BE APPROVED BY THE ENGINEER PRIOR TO REINFORCEMENT PLACEMENT.
  - FOUNDATIONS TO RECEIVE CONCRETE OR MASONRY WALLS: ROUGHEN TOPS OF FOOTINGS TO A FULL AMPLITUDE OF 1/4 INCH AND ABRASIVELY CLEAN.
  - CONTRACTOR SHALL SUBMIT MIX DESIGNS FOR REVIEW BEFORE FABRICATION AND INSTALLATION.

**GENERAL**

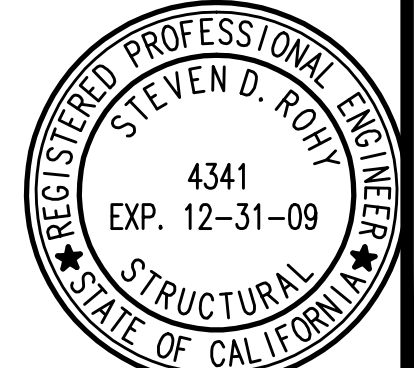
- NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER THESE STANDARD STRUCTURAL NOTES. TYPICAL DETAILS SHALL BE USED WHENEVER APPLICABLE. REFER TO SPECIFICATIONS FOR INFORMATION NOT COVERED BY THESE NOTES OR DRAWINGS. THESE NOTES TAKE PRECEDENCE OVER ANY OTHER BOOK SPECIFICATIONS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK, AND THE ENGINEER/ARCHITECT SHALL BE IMMEDIATELY NOTIFIED, IN WRITING, OF ANY DISCREPANCIES. IN NO CASE SHALL DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THE STRUCTURAL DRAWINGS.
- ALL OMISSIONS AND CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF, AND RESOLVED WITH, THE ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.
- WHERE A CONSTRUCTION DETAIL IS NOT SHOWN OR NOTED, THE DETAIL SHALL BE THE SAME AS FOR OTHER SIMILAR WORK.
- THE CONTRACTOR SHALL DETERMINE THE LOCATION OF UTILITY SERVICES IN THE AREA TO BE EXCAVATED, BEFORE BEGINNING EXCAVATION.
- NO PIPES, DUCTS, SLEEVES, CHASES, ETC. SHALL BE PLACED IN SLABS, BEAMS, OR WALLS, NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR PIPES, DUCTS, ETC. THE CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR INSTALLATION OF ANY ADDITIONAL PIPES, DUCTS, ETC.
- ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE 2006 INTERNATIONAL BUILDING CODE (IBC).
- THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE ENGINEER FREE AND HARMLESS FROM ALL CLAIMS, DEMANDS AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE ENGINEER.
- RETAIN A [STATE] REGISTERED CIVIL ENGINEER TO DESIGN ALL TEMPORARY BRACING, SHORING, AND SUPPORT REQUIRED DURING CONSTRUCTION.
- INCLUDE ENGINEERING FEES, ENGINEERING DESIGN TIME AND PUBLIC WORKS APPROVAL TIME IN THE COST OF PROPOSED MATERIAL ALTERNATES. CONTACT ENGINEER FOR FEE AMOUNT. SUBMIT MATERIAL ALTERNATE FOR REVIEW BEFORE CONSTRUCTION.
- STRUCTURAL CAD DRAWINGS SHALL NOT BE USED FOR SHOP DRAWINGS UNLESS AN AGREEMENT BETWEEN THE STRUCTURAL ENGINEER AND CONTRACTOR HAS BEEN ESTABLISHED ACCORDING TO CASE DOCUMENT 11-1996. CONTACT ENGINEER FOR FEE AMOUNT.

**STRUCTURAL OBSERVATION (IBC CHAPTER 17)**

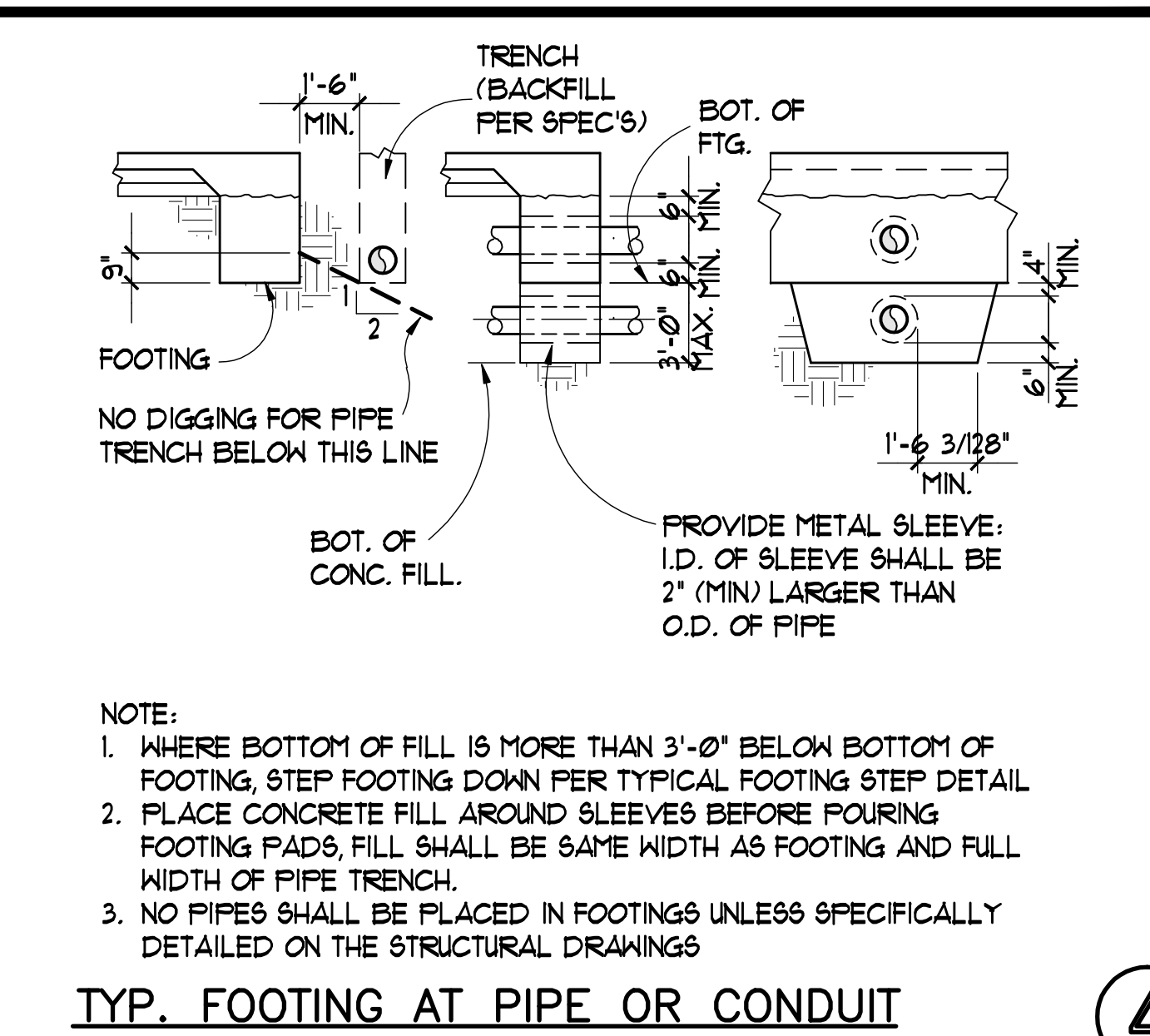
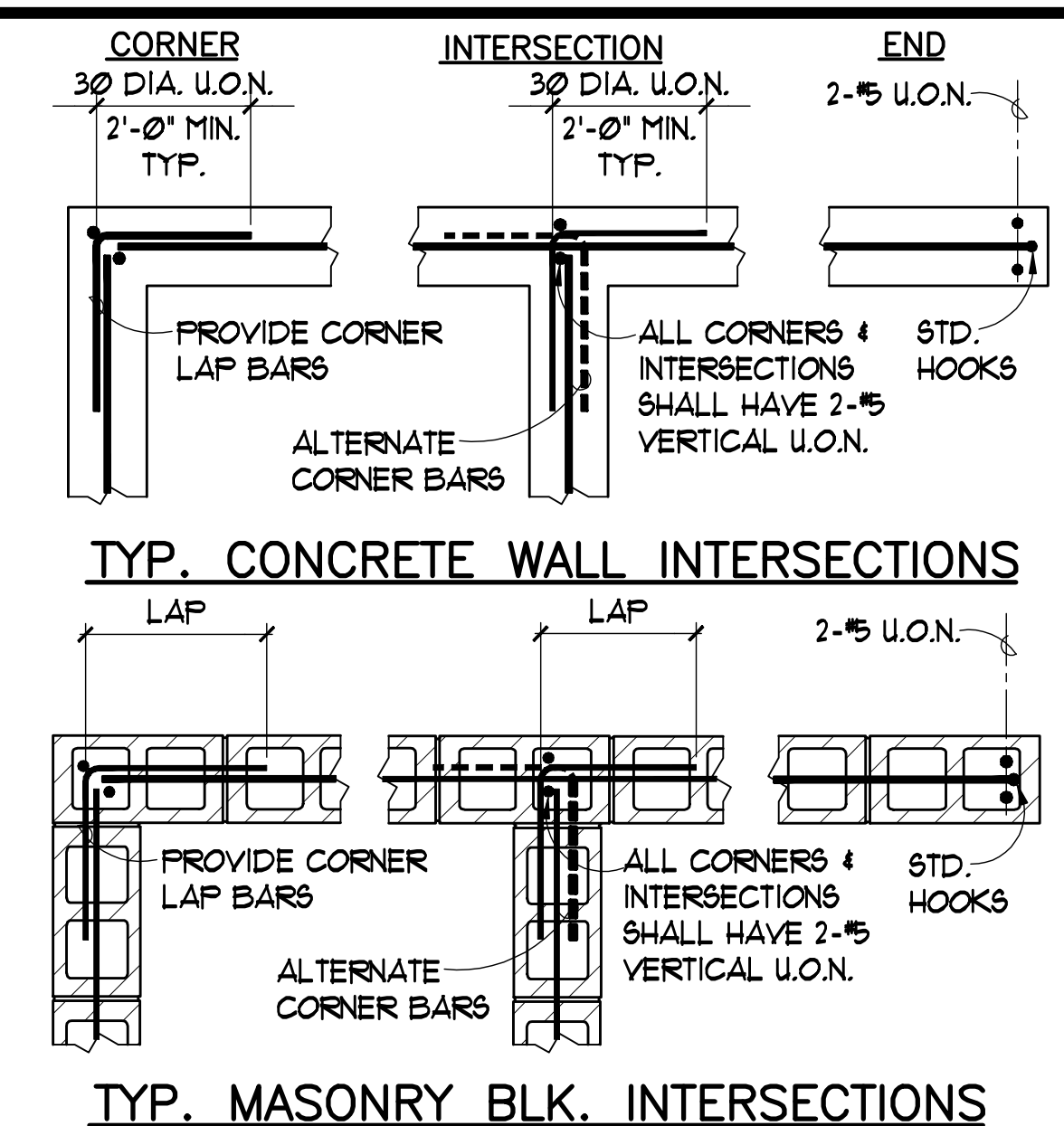
- DEFINITION: THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM, FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS, AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM. STRUCTURAL OBSERVATION DOES NOT WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED BY IBC SECTION 109, 1704 OR OTHER SECTIONS OF THE CODE.
- IN ACCORDANCE WITH IBC SECTIONS 106.3.4 AND 1709 THE ENGINEER REQUIRES OBSERVATION DURING CONSTRUCTION OF THE FOLLOWING:
  - FOUNDATION EXCAVATION AND REINFORCEMENT
    - FOOTINGS
  - PARTIAL FRAMING
    - REINFORCING STEEL
  - FINAL FRAMING
    - ALL REVISIONS TO PLANS
- NOTIFICATION: 48 HOURS BEFORE REQUIRED OBSERVATION. DELINQUENT NOTIFICATION MAY REQUIRE DEMOLITION OF COVERED MATERIALS FOR OBSERVATION.
- THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFYING ANY REPORTED DEFICIENCIES WHICH, TO THE BEST OF THE STRUCTURAL OBSERVERS KNOWLEDGE, HAVE BEEN RESOLVED.

**REINFORCING STEEL**

- BAR REINFORCEMENT SHALL BE ASTM A615, GRADE 60 DEFORMED BARS.
- MINIMUM LAP SPLICES OF REINFORCING BARS SHALL BE AS SPECIFIED IN THE DRAWINGS.
- VERTICAL BARS IN CONCRETE WALLS SHALL BE ACCURATELY POSITIONED AT THE CENTER OF THE WALL UNLESS OTHERWISE NOTED ON PLANS.
- VERTICAL BARS IN MASONRY WALLS SHALL BE ACCURATELY POSITIONED AT THE CENTER OF THE WALLS UNLESS OTHERWISE NOTED ON PLANS AND SHALL BE TIED IN POSITION TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 200 BAR DIAMETERS.
- REINFORCING DETAILING, BENDING, AND PLACING SHALL BE IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE", LATEST EDITION.
- REINFORCING STEEL SHALL BE PROVIDED WITH THE FOLLOWING MINIMUM CONCRETE COVER FOR CAST IN PLACE CONCRETE:
  - CONCRETE DEPOSITED AGAINST EARTH: 3"
  - CONCRETE SURFACE (FORMED) EXPOSED TO EARTH OR WEATHER:
    - #6 THROUGH #18 BARS: 2"
    - #5 BAR AND SMALLER: 1-1/2"
  - CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
    - SLABS, WALLS AND JOISTS:
      - #14 AND #18 BARS: 1-1/2"
      - #11 BAR AND SMALLER: 3/4"
- ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS, HOLD-DOWN ANCHORS AND INSERTS SHALL BE WELL SECURED IN POSITION WITH WIRE POSITIONERS PRIOR TO FOUNDATION INSPECTION AND BEFORE PLACING CONCRETE OR GROUT.
- DOWELS BETWEEN FOOTINGS AND WALLS SHALL BE THE SAME GRADE, SIZE, AND SPACING AS VERTICAL WALL REINFORCING UNLESS OTHERWISE NOTED ON PLANS.
- FURNISH #3 SPACER TIES AT APPROXIMATELY 2'-6" ON CENTER IN ALL BEAMS AND FOOTINGS TO SECURE REINFORCING IN PLACE.
- CONTRACTOR SHALL SUBMIT REINFORCING STEEL SHOP DRAWINGS FOR REVIEW BEFORE FABRICATION AND INSTALLATION.



<b>SAN MARCOS FIRE DEPARTMENT</b>	<b>VALLECITOS WATER DISTRICT</b>	<b>ENGINEER OF WORK</b>	<b>CITY APPROVED CHANGES</b>		<b>RECOMMENDED FOR APPROVAL</b>	<b>APPROVED FOR CONSTRUCTION</b>	<b>BENCH MARK</b>	<b>CITY OF SAN MARCOS ENGINEERING DIVISION</b>	City Drawing No.
By: _____ Fire Marshal	By: _____	By: _____ Name: Steve Rohy R.S.E.: 4341 exp: 12/31/09	No. _____ Description _____ App'd By _____ Date _____	App'd By _____ Date _____	By: _____ Sossan Haghgo, Deputy City Engineer R.C.E.: 42201 exp.: 03/31/2010 Date: _____	By: _____ Michael D. Edwards, City Engineer R.C.E.: 32977 exp.: 06/30/2010 Date: _____	Description: Calliana Monument "78-12.9 1988 CDH" 2 1/4" brass disc (PI #1130 on Record of Survey 159281) Location: Brass disc in sidewalk at a point 66.7' south of the southwest corner of the Twin Oaks Valley Road bridge over Highway 78 Record from: Record of Survey 15928 Elev.: 581.91 Datum: MSL	<b>MF 1599</b>	GP-2407
								<b>SDP 06-319 TFM 651</b>	Sheet 12 of 17

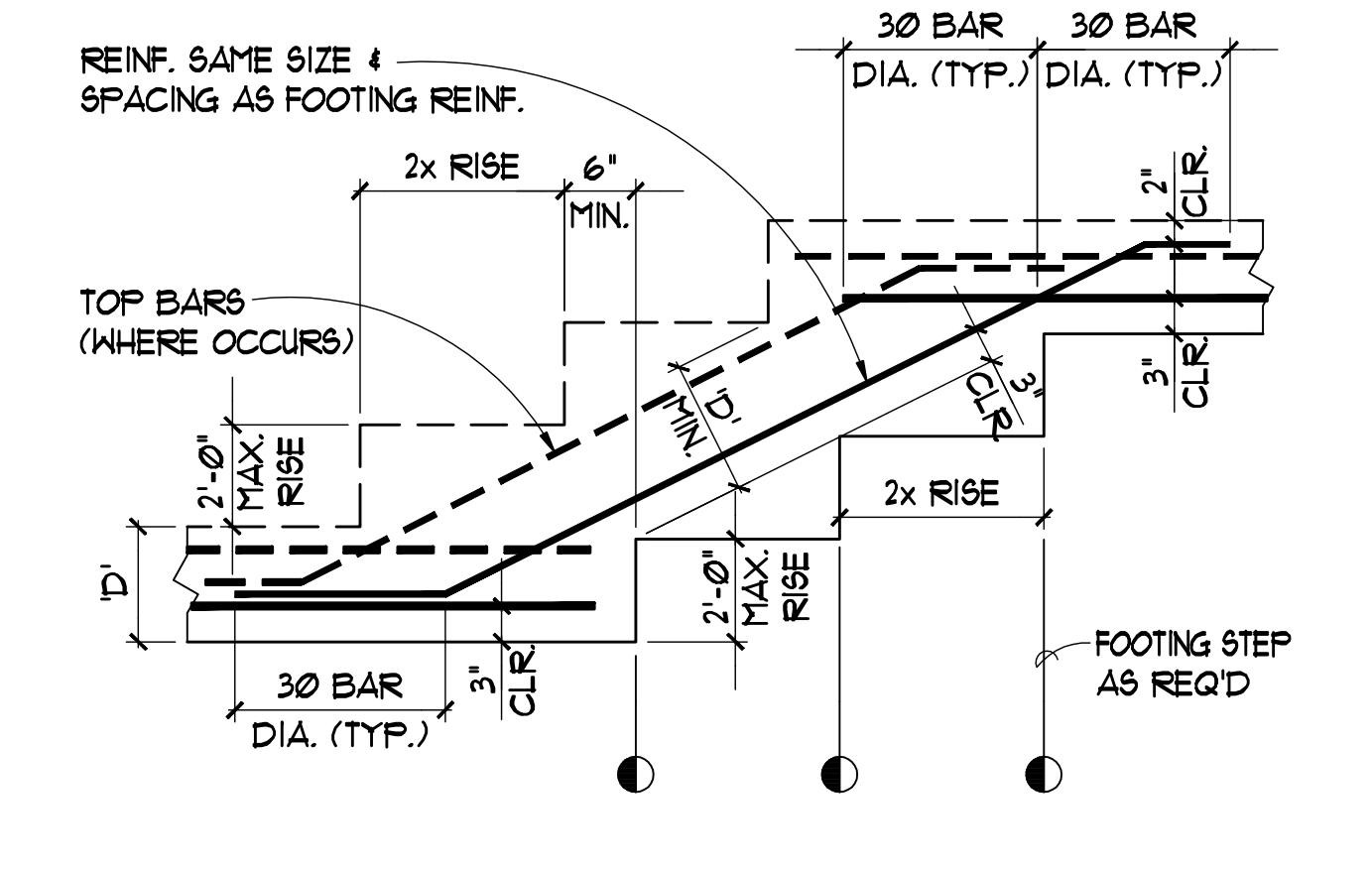
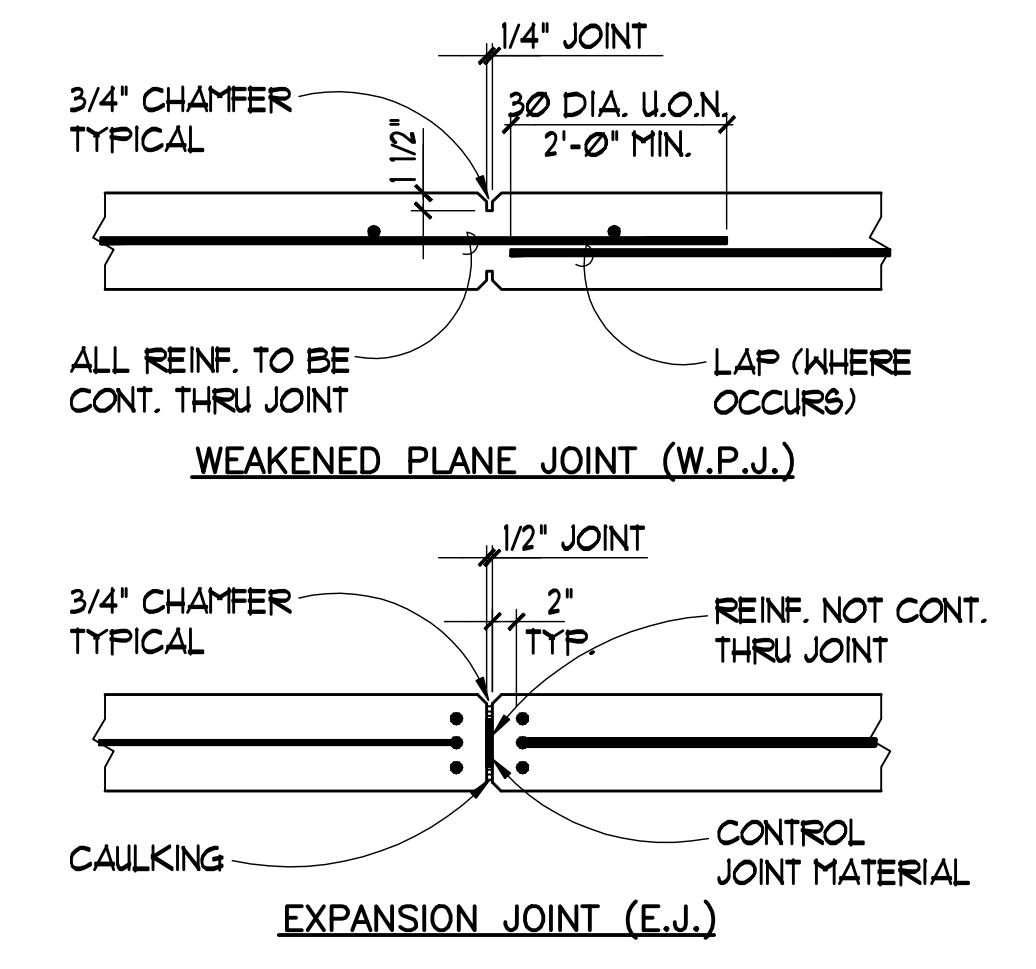
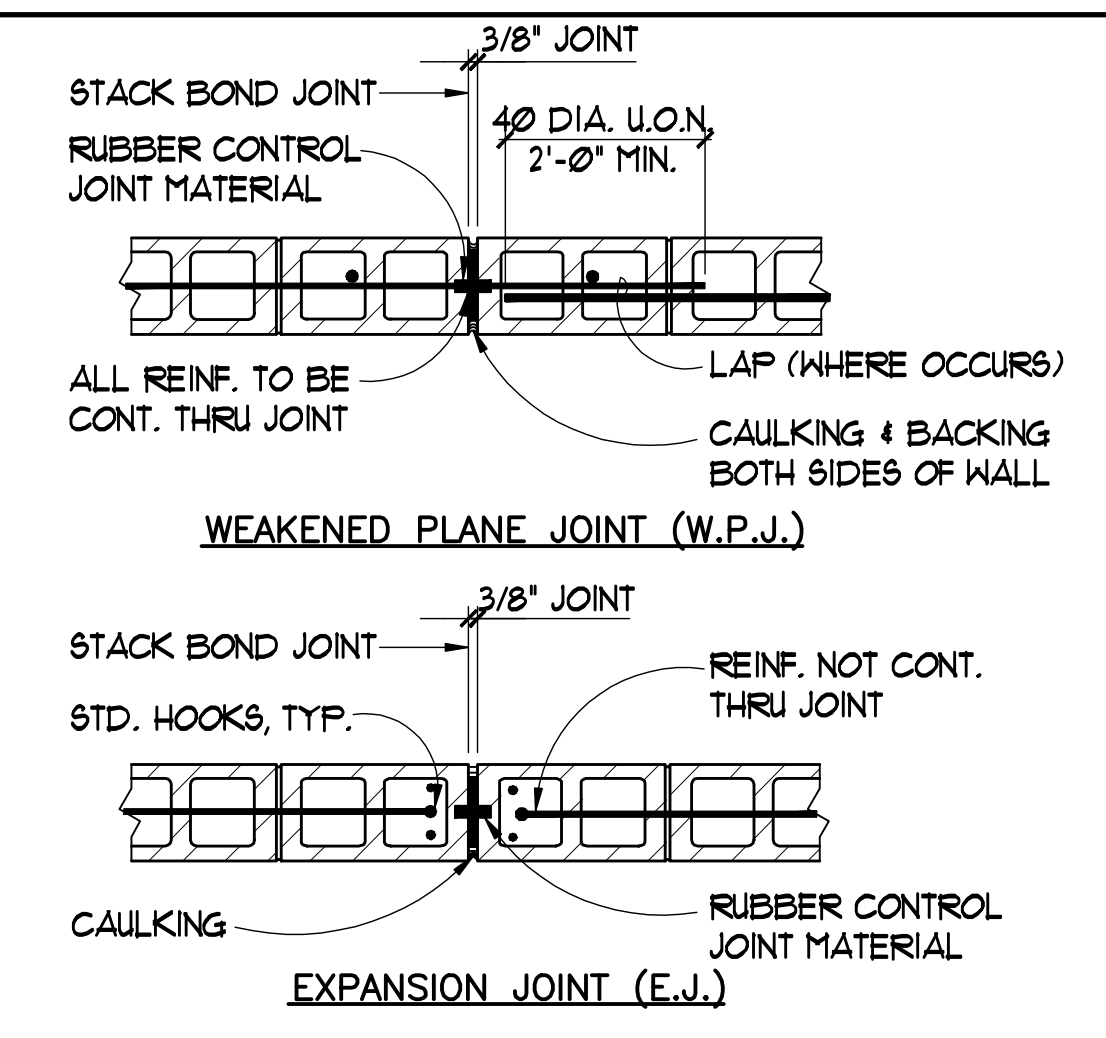


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**REBAR LAP SCHEDULE  
(CONCRETE)**

BAR SIZE	f'c=3000 PSI		f'c=4000 PSI	
	TOP BARS (IN.)	OTHER BARS (IN.)	TOP BARS (IN.)	OTHER BARS (IN.)
#3	28	22	24	19
#4	31	25	32	25
#5	41	38	40	31
#6	56	43	48	37
#7	81	63	70	54
#8	93	72	80	62
#9	105	81	91	70
#10	118	91	102	79
#11	131	101	113	87

**NOTES:**  
 1. LAP SPLICE LENGTHS FOR GRADE 60 REINFORCING BAR.  
 2. LAP SPLICE LENGTHS FOR NORMAL WEIGHT CONCRETE.  
 3. LAP SPLICE LENGTHS FOR CLASS B LAPS = 1.3 ld.  
 4. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.  
 5. LAP SPLICE LENGTHS ARE BASED ON THE TYPE OF STRUCTURAL ELEMENT AS FOLLOWS:  
**BEAMS OR COLUMNS:** COVER AT LEAST 1.0db AND CENTER TO CENTER SPACING AT LEAST 2.0db.  
**ALL OTHERS:** COVER AT LEAST 1.0db AND CENTER TO CENTER SPACING AT LEAST 3.0db.

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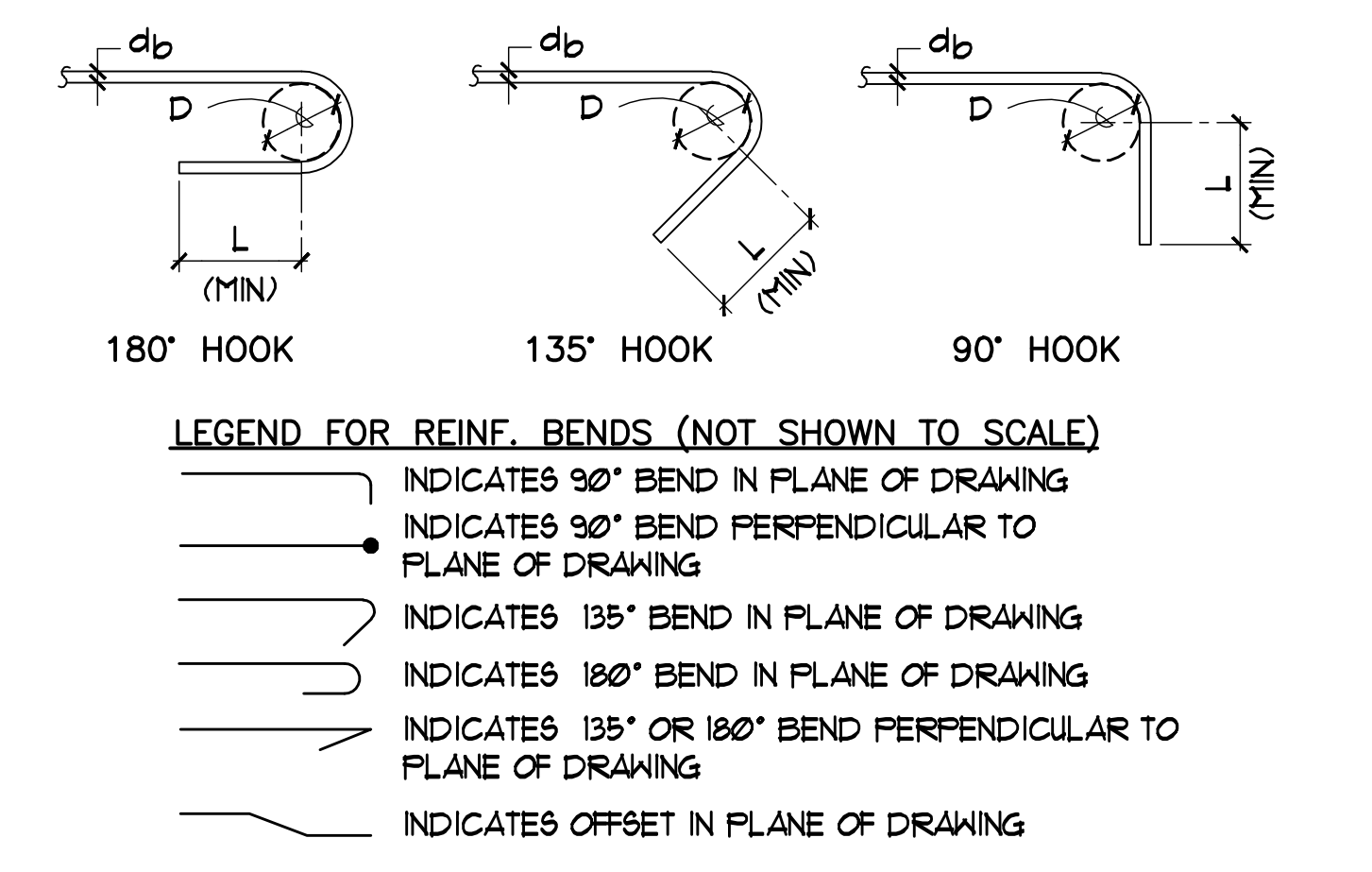
**BARS OTHER THAN STIRRUPS, TIES, HOOPS & CROSS-TIES**

BAR SIZE	180°	135°	90°
#3	2 1/4	2 1/2	4 1/2
#4	3	2 1/2	6
#5	3 3/4	2 1/2	7 1/2
#6	4 1/2	3	9
#7	5 1/4	3 1/2	10 1/2
#8	6	4	12
#9	9 1/2	4 1/2	13 1/2
#10	10 3/4	5 1/4	15 1/4
#11	12	5 3/4	17
#14	18 1/4	7	21
#8	24	9	27

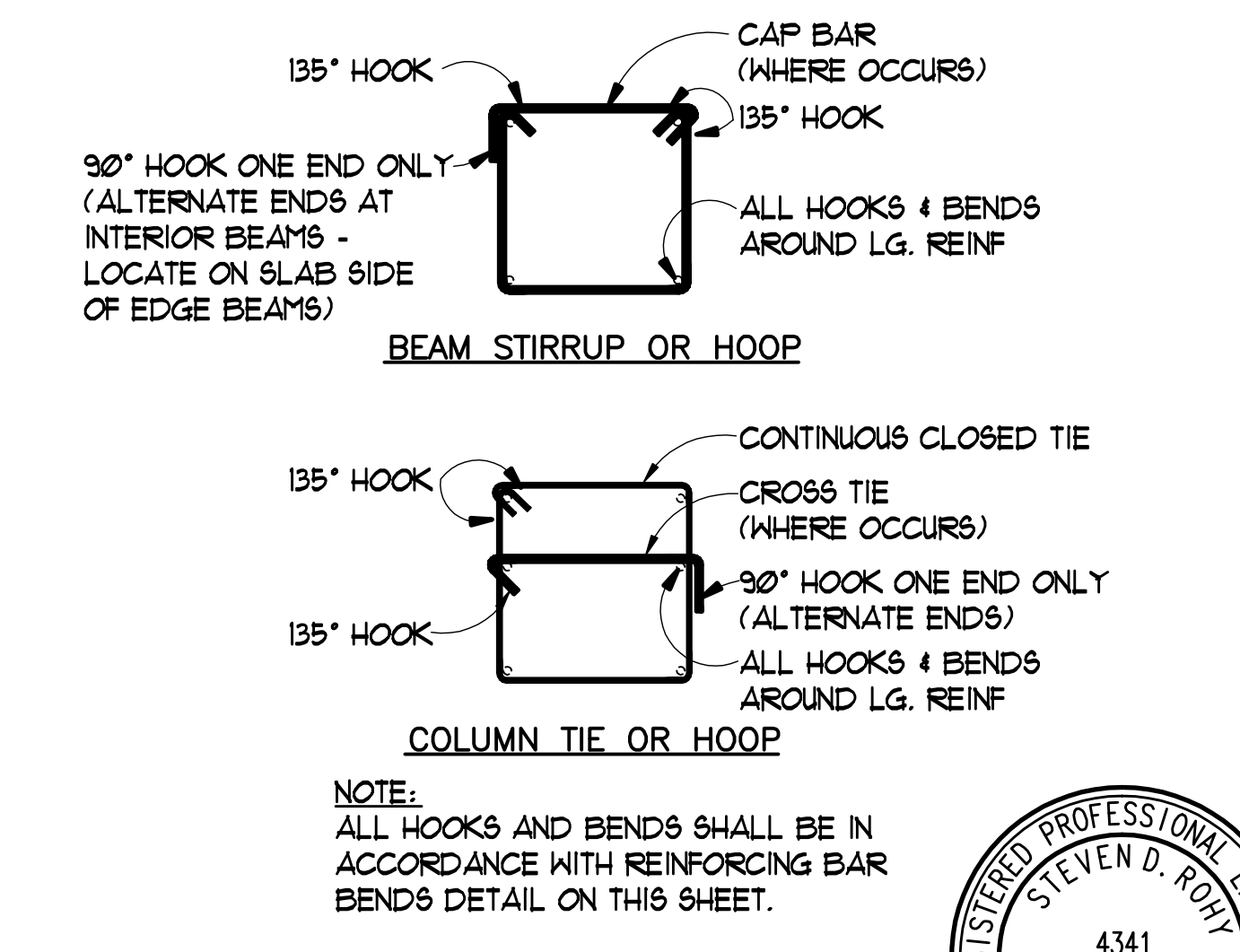
**STIRRUPS, TIES, HOOPS & CROSS-TIES**

BAR SIZE	1 1/2	4	4
#3	1 1/2	-	4
#4	2	-	4
#5	2 1/2	-	4
#6	4 1/2	-	4 1/2
#7	5 1/4	-	5 1/4
#8	6	-	6

(1) USE 3 3/4" IN CONC. BLK. CONSTRUCTION  
 NOTE: ALL DIMENSIONS GIVEN ARE IN INCHES.



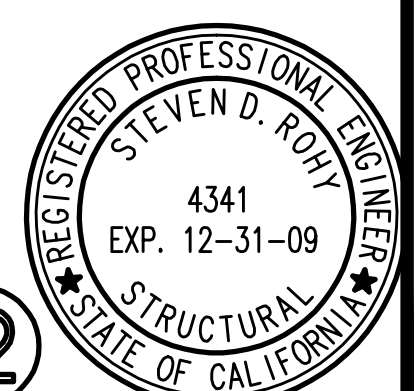
REINFORCING BAR BENDS & HOOKS



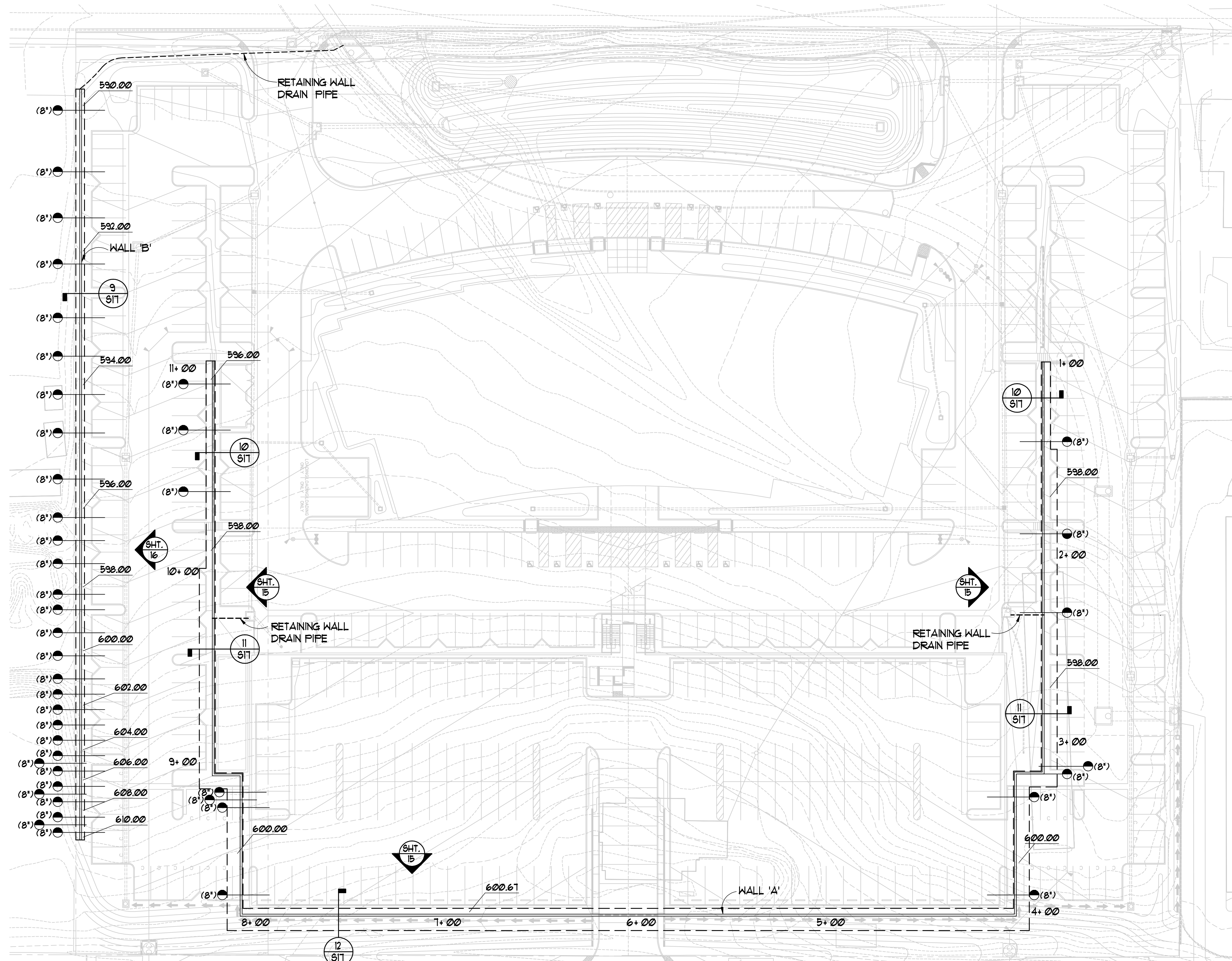
TYP. STIRRUP, TIE, HOOP OR CROSS-TIE

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SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT	ENGINEER OF WORK	CITY APPROVED CHANGES	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SAN MARCOS ENGINEERING DIVISION	City Drawing No.
By: _____ Fire Marshal	By: _____ Name: Steve Rohy R.S.E.: 4341 exp: 12/31/09	By: _____ Date: _____ Name: Steve Rohy R.S.E.: 4341 exp: 12/31/09	No. Description App'd By/Date	By: Sossan Haghgo, Deputy City Engineer R.C.E.: 42201 exp.: 03/31/2010	By: Michael D. Edwards, City Engineer R.C.E.: 32977 exp.: 06/30/2010	Description: Calliana Monument "78-12.9 1988 CD# 2 1/4" Brass disc (PI #1130 on Record of Survey 159281) Location: Brass disc in sidewalk at a point 66.7' south of the southwest corner of the Twin Oaks Valley Road bridge over Highway 78 Record from: Record of Survey 159281 Elev.: 581.91 Datum: MSL	<b>CAMPUS POINTE MEDICAL CENTRE</b> MF 1599 SDP 06-319 TFM 651	<b>GP-2407</b> Sheet 13 of 17



**FOUNDATION LEGEND**

- T.O.F. TOP OF FOOTING ELEVATION AT THE LOCATION SHOWN.
- ELEVATION. SEE REFERENCED DRAWING FOR CONFIGURATION, MEMBER SIZES, AND CONNECTIONS.
- E.J. WALL EXPANSION JOINT @ 100'.00 PER DETAIL 1/13 JOINTS SHALL EXTEND THE FULL HT. OF THE WALL AT THE LEVEL WHERE INDICATED.
- W.P.J. WALL WEAKENED PLANE JOINT @ 30'.00 PER DETAIL 7/13 JOINTS SHALL EXTEND THE FULL HEIGHT OF THE WALL AT THE LEVEL WHERE INDICATED.
- WALL EXPANSION JOINT @ 100'.00 PER DETAIL 6/13 JOINTS SHALL EXTEND THE FULL HT. OF THE WALL AT THE LEVEL WHERE INDICATED.
- W.P.J. WALL WEAKENED PLANE JOINT @ 30'.00 PER DETAIL 6/13 JOINTS SHALL EXTEND THE FULL HEIGHT OF THE WALL AT THE LEVEL WHERE INDICATED.
- APPROXIMATE LOCATION OF STEP IN FOOTING PER DETAIL 8/13. DARK SIDE INDICATES LOWER ELEVATION OF FOOTING. (X) INDICATES DEPTH OF STEP.

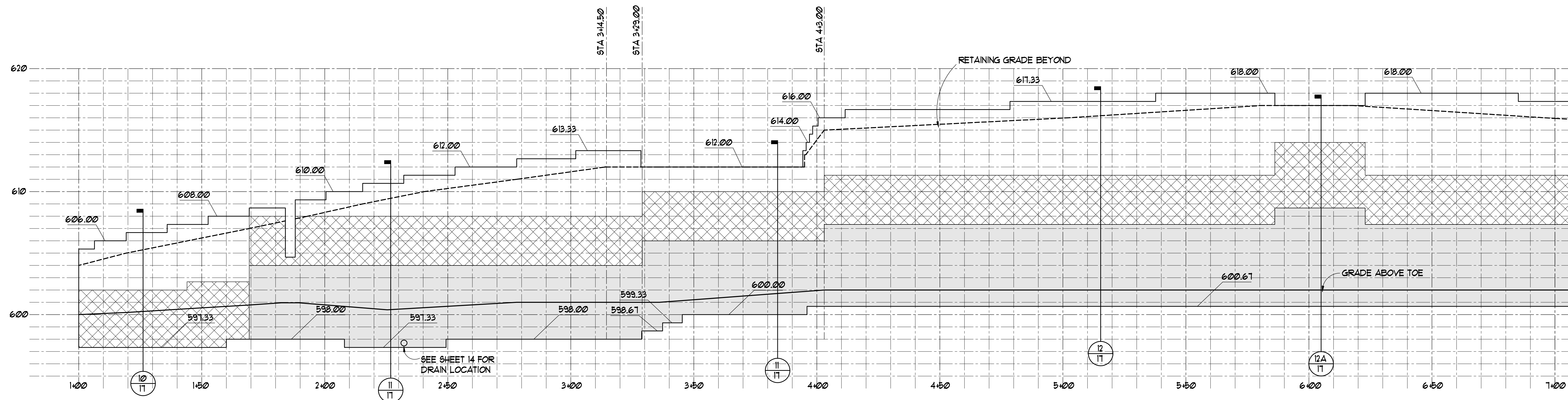
**FOUNDATION PLAN NOTES**

1. SEE GENERAL NOTES AND TYPICAL DETAILS ON SHEET 12 & 13. THESE NOTES AND DETAILS SHALL BE USED WHERE APPLICABLE WHETHER SPECIFICALLY REFERENCED OR NOT.
2. SEE NOTES AND LEGEND ON THIS SHEET.
3. CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES WITH THE STRUCTURAL REQUIREMENTS INDICATED. REFER TO CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.
4. TOP OF CONCRETE ELEVATION (T.O.C.) IS AS SHOWN ON PLAN.
5. CONCRETE BLOCK WALL INTERSECTIONS PER DETAIL 3/13.
6. LAPS OF FOOTING REINFORCEMENT SHALL CONFORM TO 9/13.

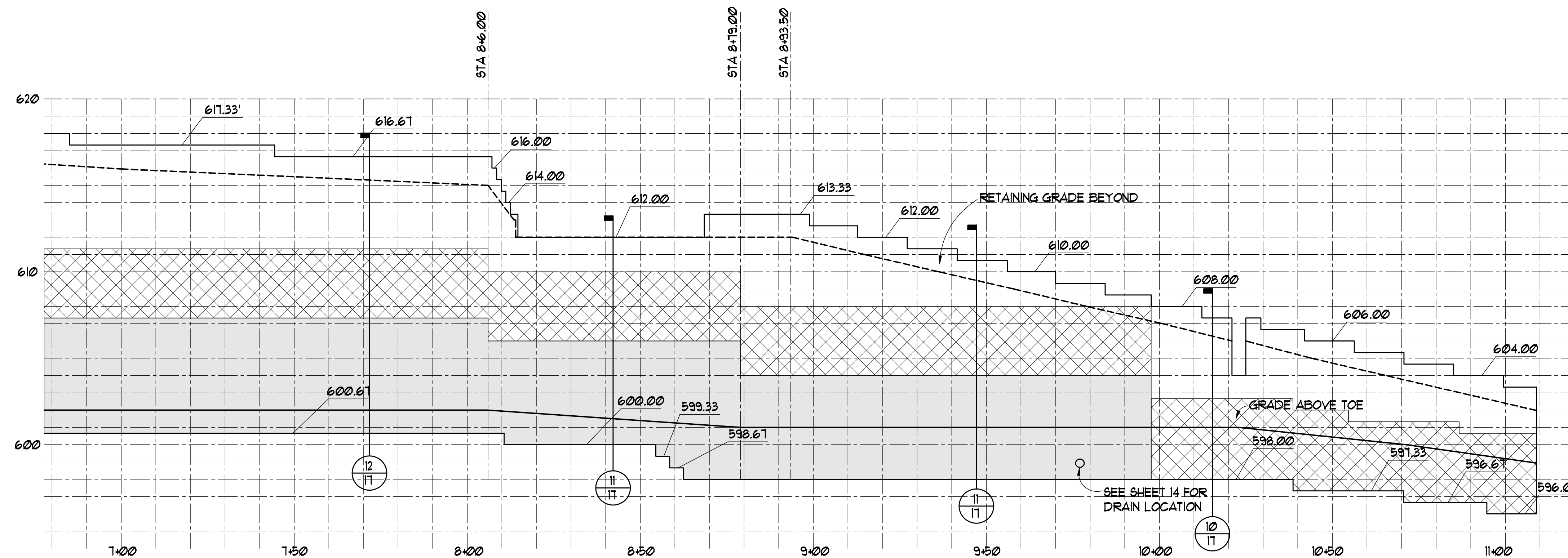
**FOUNDATION PLAN**  
SCALE: 1" = 30'-0"



SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT	ENGINEER OF WORK	CITY APPROVED CHANGES	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SAN MARCOS ENGINEERING DIVISION	City Drawing No.
By: _____ Fire Marshal	By: _____	By: _____ Date: _____ Name: Steve Rohy R.S.E.: 4341 exp.: 12/31/09	No. Description App'd By/Date	By: Sassan Haghgo, Deputy City Engineer R.C.E.: 42201 exp.: 03/31/2010	By: Michael D. Edwards, City Engineer R.C.E.: 32977 exp.: 06/30/2010	Description: California Monument "78-12.9 1988 CDH" 2 1/4" brass disc (PI #1130 on Record of Survey 13928) Location: Brass disc in sidewalk at a point 66.7' south of the southwest corner of the Twin Oaks Valley Road bridge over Highway 78 Record from: Record of Survey 13928 Elev.: 581.91 Datum: MSL	<b>CAMPUS POINTE MEDICAL CENTRE</b>	MF 1599 <b>GP-2407</b> SDP 06-319 TPM 651 Sheet 14 of 17



**WALL A ELEVATION**  
SCALE HORIZONTAL: 1" = 20'-0" VERTICAL: 1" = 4'-0"



**WALL A ELEVATION**  
SCALE HORIZONTAL: 1" = 20'-0" VERTICAL: 1" = 4'-0"

**NOTES**

1. ALL BLOCK TO BE SPLITFACE OF RCP COLOR 'LA FAZ'.
2. WALL CAP TO BE 'MUSHROOM' IN RCP COLOR 'LA FAZ'.
3. SEE SHEET 11 FOR ADDITIONAL NOTES

**LEGEND**

- 12" CONC. BLOCK PER DETAIL
- CONC. PER DETAIL
- 8" CMU PER DETAIL



SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT	ENGINEER OF WORK	CITY APPROVED CHANGES	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SAN MARCOS ENGINEERING DIVISION	City Drawing No.
By: _____ Fire Marshal	By: _____	By: _____ Date: _____ Name: Steve Rohy R.S.E.: 4341 exp.: 12/31/09	No. Description App'd By/Date	By: Sassan Haghgoo, Deputy City Engineer R.C.E.: 42201 exp.: 03/31/2010 Date: _____	By: Michael D. Edwards, City Engineer R.C.E.: 32977 exp.: 06/30/2010 Date: _____	Description: Calliana Monument "78-12.9 1988 CD# 2 1/4" Bench disc (PI #1130 on Record of Survey 13928) Location: Brass disc in sidewalk at a point 66.7' south of the southeast corner of the Twin Oaks Valley Road bridge over Highway 78 Record from: Record of Survey 13928 Elev.: 581.91 Datum: MSL	<b>CAMPUS POINTE MEDICAL CENTRE</b> SDP 06-319 TPM 651	MF 1599 <b>GP-2407</b> Sheet 15 of 17





