CIVIL IMPROVEMENTS FOR VENTURA COLLEGE ECT PATH

SURVEY NOTES

1. MAPPING

TOPOGRAPHIC MAPPING WAS COMPILED AT A SCALE OF 1"=10', WITH A 1 FOOT CONTOUR INTERVAL FROM DATA COLLECTED IN A FIELD SURVEY PERFORMED USING CONVENTIONAL EQUIPMENT AND PROCEDURES ON AUGUST 2024, AT THE REQUEST OF VENTURA COLLEGE FACILITIES, MAINTENANCE AND OPERATIONS.

2. BASIS OF BEARINGS AND COORDINATES

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CALIFORNIA COORDINATE SYSTEM NAD83, ZONE 5, EPOCH 2017.50 AS DETERMINED LOCALLY BY A LINE BETWEEN CONTINUOUS GLOBAL POSITIONING STATIONS (CGPS) AND/OR CONTINUOUS OPERATING REFERENCE STATIONS (CORS) VNCO & SOMT BEING NORTH 73-35-09 EAST AS DERIVED FROM GEODETIC VALUES PUBLISHED BY THE CALIFORNIA SPATIAL REFERENCE CENTER (CSRC).

3. ELEVATIONS

THE VERTICAL DATUM OF THIS SURVEY IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), PER GPS AND CONVENTIONAL TIES AND GEOID MODELING (GEOID18B) TO VENTURA COUNTY BENCHMARK PID 0764, BEING A VC BRASS DISK MONUMENT STAMPED 12-148 1962 HAVING AN ELEVATION OF 212.63 US SURVEY FEET.

4. UTILITIES

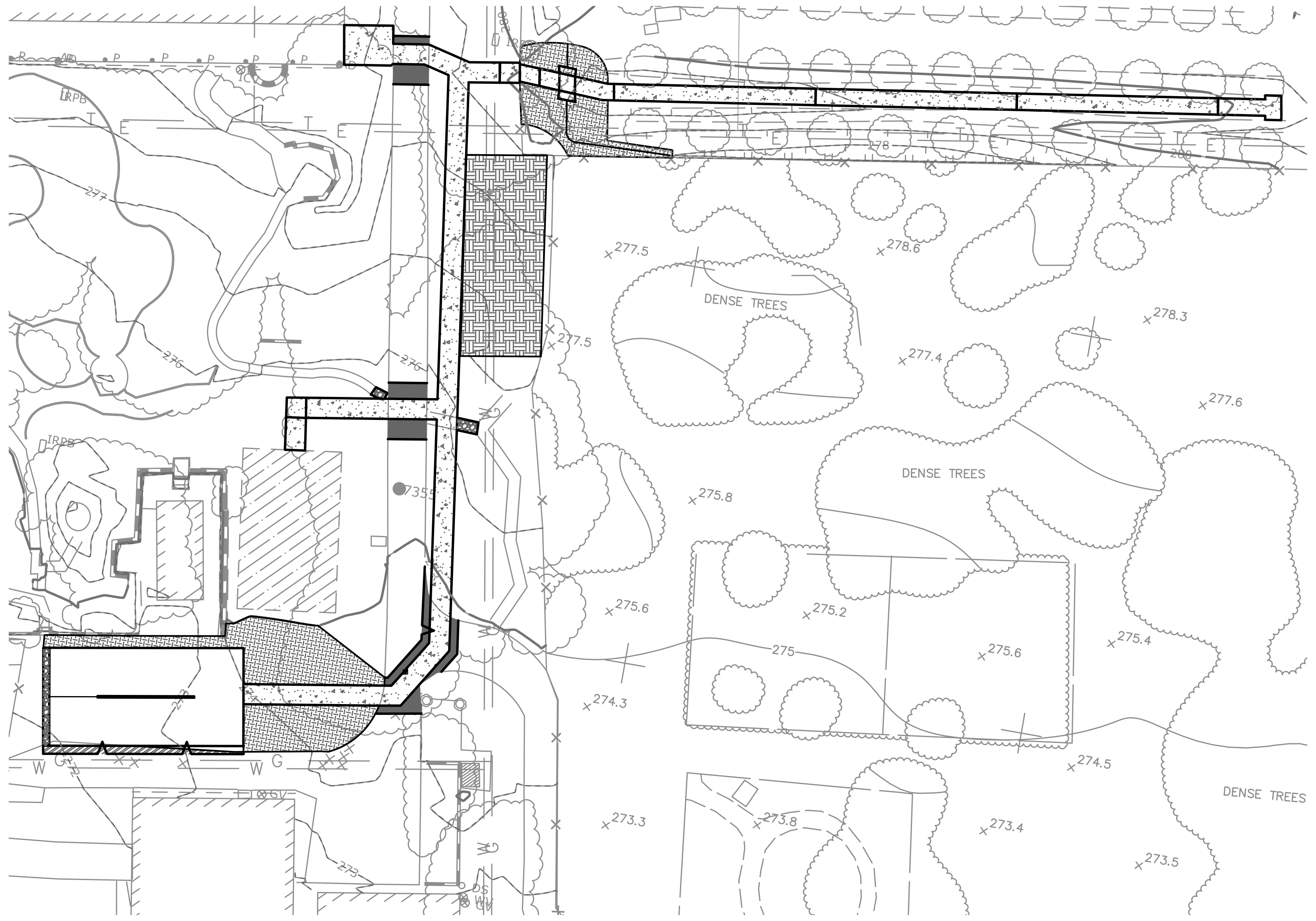
SURFACE UTILITY FEATURES SHOWN HEREON WERE LOCATED AS A PART OF THE FIELD SURVEY PERFORMED BY ECG BASED ON VISIBILITY ON THE DATE OF SURVEY. NO RESEARCH OR MAPPING OF SUBSURFACE UTILITIES HAS BEEN PERFORMED.

CONTROL TABLE

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1926107.51	6190510.29	279.91	SET MAG NAIL
2	1926069.71	6190743.26	280.88	SET 60D MAG NAIL
3	1926103.48	6190451.93	279.10	SET SCRIBED X
4	1926034.26	6190566.82	278.85	SET 60D MAG NAIL
5	1926096.43	6190328.86	281.02	SET SCRIBED X
6	1926210.08	6190530.25	285.65	SET MAG NAIL
7	1926014.86	6190357.10	278.13	SET SCRIBED X
8	1926041.52	6190520.63	278.76	SET MAG NAIL
9	1925974.22	6190387.09	275.40	SET 60D MAG NAIL
10	1925897.82	6190563.74	274.84	SET MAG
11	1925978.00	6190454.44	276.22	SET 60D MAG NAIL
12	1925813.99	6190599.31	271.27	SET MAG ECG CNTL WASHER
13	1925950.30	6190487.78	275.97	SET 60D MAG
14	1925862.73	6190468.71	272.62	SET 60D MAG
15	1925919.97	6190444.06	275.17	SET 60D MAG NAIL

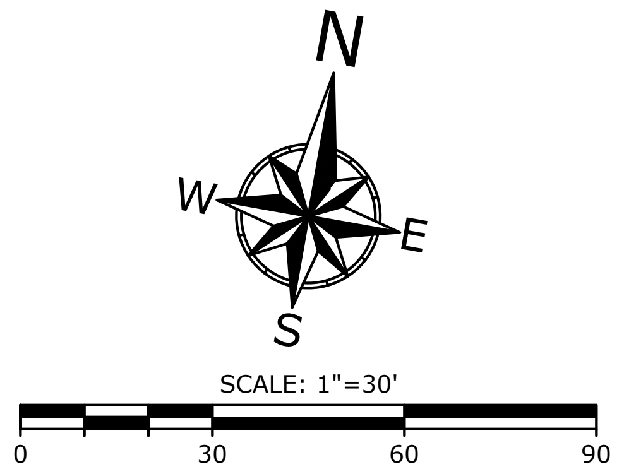
LEGEND

⌄ ⌄ ⌄	SAWCUT
2410	PROPOSED MAJOR CONTOURS
2409	PROPOSED MINOR CONTOURS
SD	PROPOSED STORM DRAIN LINE
×	EXISTING FENCE
▬	EXISTING WALL
2410	EXISTING INTERMEDIATE CONTOURS
2409	EXISTING INDEX CONTOURS
E	EXISTING ELECTRICAL LINE
G	EXISTING GAS LINE
W	EXISTING WATER LINE
2410.00 FS	PROPOSED ELEVATION
(2410.00) FS	EXISTING ELEVATION
1.5%	PROPOSED GRADE
■	STORM DRAIN INLET
▭	PROPOSED CONCRETE PCC PAVEMENT
■	PROPOSED AC PAVEMENT
▩	STONE
▦	DECOMPOSED GRANITE
▨	ASPHALT TO BE REMOVED
▦	LIMITS OF GRADING



INDEX MAP

SCALE: 1"=30'



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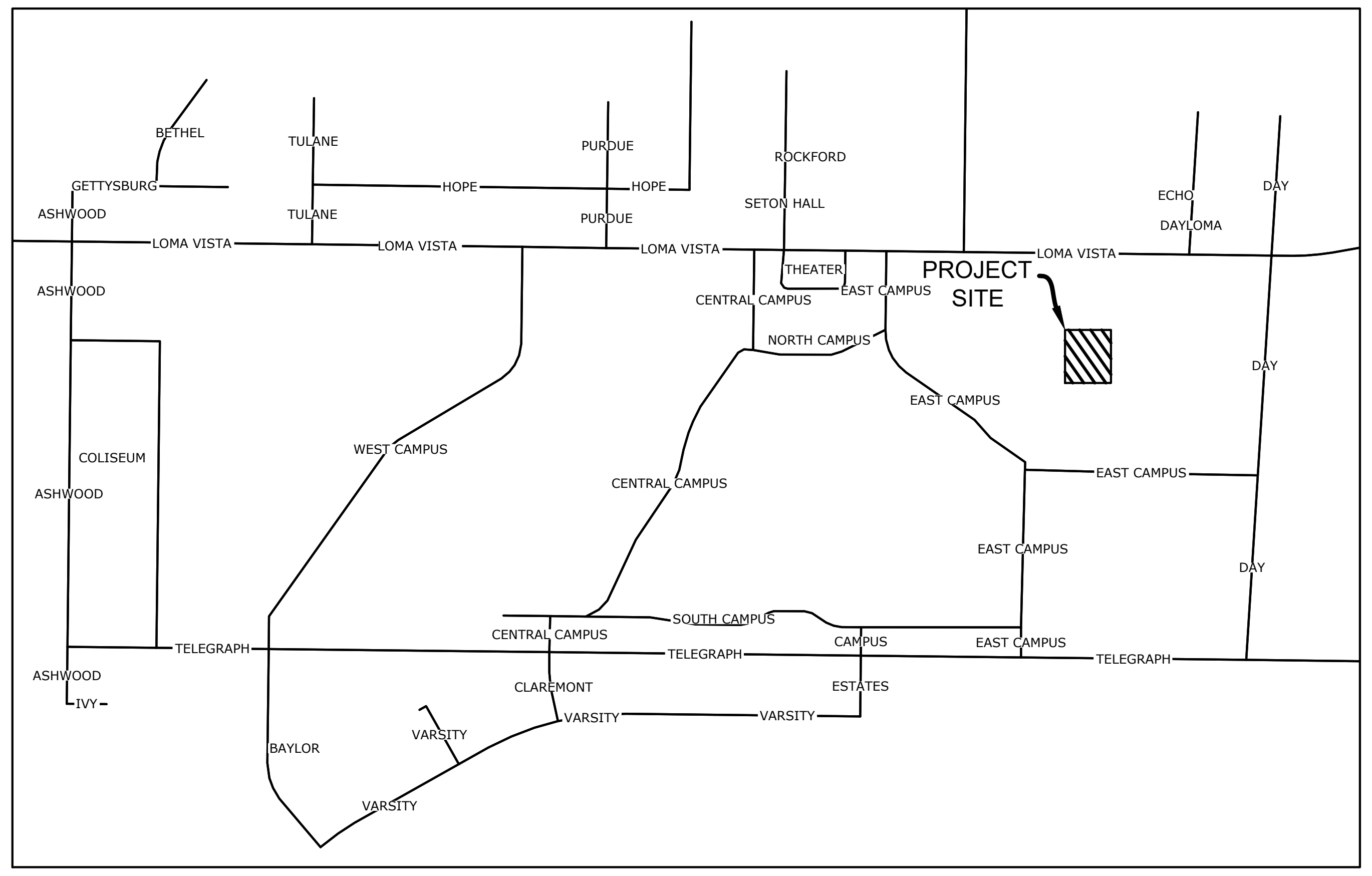

VICINITY MAP

N.T.S.

ENGINEER'S NOTICE TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN ON THESE PLANS WAS OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN OR NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES TO VERIFY THE LOCATION AND ANY DISCREPANCY BETWEEN THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER.

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITION DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY AND THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR ALSO AGREES TO DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

Glen H Pace 61,468 06/30/2025
GLEN H. PACE R.C.E. DATE

ABBREVIATIONS

ABBR	ABBREVIATION	R.O.W.	RIGHT OF WAY
A.C.	ASPHALT CONCRETE	RPD	RESIDENTIAL PLANNED DEVELOPMENT
A.C.P.	ASBESTOS CONCRETE PIPE	RT	RIGHT
AP	ANGLE POINT	RW	RECLAIMED WATER
ARCH.	ARCHITECT	R/W	RIGHT OF WAY
ASSOC.	ASSOCIATION	SCE	SOUTHERN CALIFORNIA EDISON
AVE	AVENUE	SCO	SEWER CLEAN OUT
BC	BEGIN CURVE	SD	STORM DRAIN
BCR	BEGIN CURB RETURN	SDMH	STORM DRAIN MANHOLE
BDY.	BOUNDARY	SDR	STANDARD DIMENSION RATIO
BEG	BEGIN	S.E.	SAND EQUIVALENT
BFP	BACKFLOW PREVENTER	SF	SQUARE FOOT/FEET
BLDG	BUILDING	SHT	SHEET
BOT	BOTTOM OF PIPE	SHTS	SHEETS
BS	BOTTOM OF STEP	S.L.	SEWER LATERAL
BVC	BEGIN VERTICAL CURVE	SLDS	STANDARD LAND DEVELOPMENT SPECIFICATIONS
BW	BACK OF WALK OR BOTTOM OF WALL	S'LY	SOUTHERLY
CB	CATCH BASIN	SMH	SEWER MANHOLE
CBC	CALIFORNIA BUILDING CODE	S.N.S.	STREET NAME SIGN
C-C	CENTER TO CENTER	SPPWC	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
CF	CURB FACE	SS	SANITARY SEWER
CFS	CUBIC FEET PER SECOND	SSPWC	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION
CL	CENTERLINE OR CLASS	ST	STREET
CLF	CHAIN LINK FENCE	STD	STANDARD
CLR	CLEAR	SW	SIDEWALK
CMB	CRUSHED MISCELLANEOUS BASE	SWCT	SAWCUT
CMP	CORRUGATED METAL PIPE	TC	TOP OF CURB
CMU	CONCRETE MASONRY UNIT	TEL	TELEPHONE
CO	CLEANOUT	TG	TOP OF GRATE
CONC	CONCRETE	TF	TOP OF FOOTING
CONT	CONTROL	TI	TRAFFIC INDEX
CPS	CONNECTOR PIPE SCREEN	TMH	TELEPHONE MANHOLE
CT	COURT	TOE	TOE OF SLOPE
DBL	DOUBLE	TOP	TOP OF SLOPE OR PIPE
DES	DESIGN	TPL	TRIPLE
DG	DECOMPOSED GRANITE	TR	TRACT
DI	DROP INLET	TS	TOP OF STEP
D.I.	DUCTILE IRON	TW	TOP OF WALL
DIA	DIAMETER	TYP	TYPICAL
DR	DRIVE	UG	UNDERGROUND
DWG	DRAWING	VAR	VARIES
EASE	EASEMENT	V.C.	VERTICAL CURVE
EBAA	EBAA IRON, INC.	VERT.	VERTICAL
EC	END CURVE	VLT	VAULT
ECR	END CURB RETURN	VLV	VALVE
EG	EXISTING GROUND	W	WATER
ELEC	ELECTRIC	W'LY	WESTERLY
ELEV	ELEVATION	WM	WATER METER
E'LY	EASTERLY	WSEL	WATER SURFACE ELEVATION
ELLIP	ELLIPTICAL	WV	WATER VALVE
EP	EDGE OF PAVEMENT	W.W.M.	WELDED WIRE MESH
ESMT	EASEMENT	YR	YEAR
EVC	END VERTICAL CURVE		
EQ	EQUIVALENT		
FED.	FEDERAL		
FF	FINISHED FLOOR		

DRAWING: n:\projects\1017\engineering\acad\improvements\1017_title sheet & notes.dwg

REVISIONS

MARK	DATE	DESCRIPTION	BY

REVIEWED BY:
DATE
DATE

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GLEN H. PACE DATE: 02/21/2025
PROJECT ENGINEER
R.C.E. 61468

VENTURA COLLEGE ECT PATH OF
TRAVEL IMPROVEMENTS
TITLE SHEET
VENTURA, CA

SCALE: HORIZ.______ VERT.______

WORK ORDER
DRAWN BY: RAR
CHECKED BY: GHP

SHEET NO. 1 OF 6

GENERAL NOTES

1. CONTRACTOR SHALL REVIEW GRADING AND DRAINAGE AND UTILITY PLANS; AND PROTECT ALL EXISTING FACILITIES TO REMAIN. ADJUST ALL UTILITY SURFACE FEATURES TO FINAL GRADES.
2. CONTRACTOR SHALL REMOVE ALL TREES AND EXISTING ROOTS SYSTEMS WITHIN THE PROJECT AREA TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
3. CONTRACTOR SHALL MAINTAIN UTILITY SERVICES TO EXISTING BUILDINGS AND HYDRANTS THROUGHOUT CONSTRUCTION AND COORDINATE ANY SHUT DOWNS WITH THE OWNER'S REPRESENTATIVE.
4. CONTRACTOR SHALL THOROUGHLY REVIEW CONSTRUCTION DOCUMENTS IN THEIR ENTIRETY FOR PROJECT DEMOLITION AND CONSTRUCTION.
5. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION AND REMOVAL OF ALL EXISTING FACILITIES AND FEATURES WITHIN THE PROJECT LIMIT WHICH ARE REQUIRED FOR THE PROJECT CONSTRUCTION. CONTRACTOR SHALL PROTECT ALL EXISTING FACILITIES THAT ARE TO REMAIN IN PLACE AND PROMPTLY REPAIR ANY DAMAGES CAUSED BY DEMOLITION AND CONSTRUCTION AT ITS OWN EXPENSE. ALL EXISTING UTILITIES WITHIN THE BUILDING FOOTPRINT SHALL BE CAPPED AT THE NEAREST TEE, VALVE, OR MANHOLE. CONTRACTOR SHALL REMOVE ALL DEMOLITION/WASTE MATERIALS FROM THE PROJECT SITE AND LEGALLY DISPOSE OF THEM AT A DUMP SITE OFF-CAMPUS.
6. REVIEW LANDSCAPE PLANS FOR IRRIGATION DESIGN TO REMOVE EXISTING IRRIGATION SYSTEM IN CONFLICT WITH CONSTRUCTION, AND CONSTRUCT NEW FACILITIES.
7. CONTRACTOR SHALL CONSTRUCT EROSION CONTROL DEVICES PER PROJECT EROSION CONTROL PLANS AND AS REQUIRED FOR SITE CONDITIONS. NO SILT AND DEBRIS SHALL BE ALLOWED TO DEPART FROM THE CONSTRUCTION LIMITS OR ENTER THE STORM DRAIN SYSTEM.
8. CONTRACTOR SHALL PREPARE AND PROVIDE ALL CONSTRUCTION STAKING FOR THE CONSTRUCTION OF THIS PROJECT.
9. CONTRACTOR SHALL USE PROVIDED COORDINATES TO INITIALLY LOCATE THE BUILDINGS AND CONSTRUCT THE BUILDINGS PER THE ARCHITECTURAL PLANS. THE AUTOCAD DRAWING FILES MAY BE PROVIDED TO THE CONTRACTOR FOR STAKING PURPOSES DURING CONSTRUCTION.
10. CONTRACTOR SHALL PROVIDE A SUITABLE STABILIZED CONSTRUCTION ENTRANCE/EXIT AT ALL ACCESS POINTS FROM THE JOB SITE TO PREVENT TRACKING OF MUD ONTO CAMPUS AND PUBLIC ROADS. ADDITIONALLY PROVIDE SWEEPER SERVICE ON THE FREQUENCY NECESSARY TO MITIGATE UNDESIRABLE CONDITIONS, AS APPROVED BY THE OWNER'S REPRESENTATIVE.
11. CONTRACTOR SHALL SUBMIT A DRAWING OF THE PROPOSED STAGING AREA AND CONSTRUCTION FENCING TO THE OWNER'S REPRESENTATIVE FOR APPROVAL. CONSTRUCTION STAGING SHALL NOT BLOCK FIRE ENGINE ACCESS OR EXISTING FIRE HYDRANTS.

GENERAL DEMOLITION NOTES

1. DEMOLITION SHALL CONSIST OF FURNISHING ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO REMOVE EXISTING STRUCTURES, UTILITIES, AND ALL OTHER MATERIAL FROM THE PROJECT SITE.
2. DISPOSAL OF MATERIALS SHALL BE DONE IN A SAFE AND LEGAL MANNER AND SHALL BE IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS.
3. THE CONTRACTOR SHALL CONTINUOUSLY CLEAN AND REMOVE DEMOLISHED MATERIALS FROM THE SITE EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE. DO NOT ALLOW MATERIALS TO ACCUMULATE ON SITE.
4. EXISTING UNDERGROUND UTILITIES SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPLACE IN-KIND ANY ITEMS DAMAGED DURING THE DEMOLITION PROCESS THAT ARE INTENDED TO REMAIN.
6. ALL EXISTING LANDSCAPE INSIDE THE LIMITS OF WORK SHALL BE REMOVED, UNLESS OTHERWISE NOTED ON THE PLANS.
7. ALL SURFACE FEATURES FOR EXISTING UNDERGROUND UTILITIES SHALL REMAIN AND BE ADJUSTED TO MATCH NEW FINISH GRADE - UNLESS OTHERWISE NOTED.
8. SAWCUT EXISTING PAVEMENT FULL DEPTH TO A CLEAN STRAIGHT EDGE.
9. ALL TREE ROOTS, ABANDONED IRRIGATION LINES, UTILITY SERVICES, SEPTIC TANKS (AS NOTED) AND SIMILAR MATERIALS SHALL BE REMOVED FROM THE SITE AND VOIDS CREATED THEREBY SHALL BE PROPERLY FILLED AND COMPACTED AS DIRECTED BY THE ENGINEER.
10. CONTRACTOR TO COORDINATE WITH DISTRICT STAFF FOR LOCATION OF EXISTING COMMUNICATION AND ELECTRICAL STUBS.
11. EXCAVATIONS AND DEPRESSIONS RESULTING FROM FOUNDATION AND BELOW-GRADE STRUCTURE REMOVAL SHALL NOT BE FILLED IN PRIOR TO OBSERVATION BY THE GEOTECHNICAL REPRESENTATIVE.
12. CONTRACTOR SHALL PROVIDE LATERAL SUPPORT OF EXCAVATIONS, AS NEEDED, TO PREVENT LATERAL AND VERTICAL MOVEMENT OF ADJACENT EXISTING FACILITIES.

GRADING NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE CALIFORNIA BUILDING CODE. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTIONS (GREEN BOOK) LATEST EDITION AND AMENDMENTS WHENEVER SPECIAL REQUIREMENTS CONFLICT ON ANY SUBJECT MATTER. THE ENGINEER OF RECORD AND/OR HIS REPRESENTATIVE WILL DETERMINE WHICH SPECIAL REQUIREMENT AND/OR CODE WILL GOVERN.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEARING AND DISPOSAL OF THE PROPOSED WORK AREA.
3. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS IN ACCORDANCE WITH CITY, COUNTY, AND STATE ORDINANCES AND STATUTES.
4. NO FILL SHALL BE PLACED ON THE EXISTING GROUND UNTIL THE GROUND HAS BEEN CLEARED OF WEEDS, DEBRIS, TOPSOIL, DELETERIOUS MATERIAL AND SCARFIED PER THE PROJECT SPECIFICATIONS.
5. CUT AND FILL SLOPES SHALL BE NO STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL.
6. FILLS SHALL BE COMPACTED THROUGHOUT TO THE MAXIMUM DENSITY AS DETERMINED THE GEOTECHNICAL ENGINEER.
7. AREAS TO RECEIVE FILL SHALL BE PROPERLY PREPARED AND APPROVED BY THE GEOTECHNICAL ENGINEER AND/OR HIS REPRESENTATIVE PRIOR TO PLACING OF FILL.
8. FILL SLOPES SHALL BE KEYED AND BENCHED WITH APPROVED MATERIAL AND PER THE RECOMMENDATIONS OF THE PROJECT SOILS REPORT.
9. ALL EXISTING FILLS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER AND OR HIS REPRESENTATIVE BEFORE ANY ADDITIONAL FILLS ARE ADDED.
10. ANY EXISTING IRRIGATION LINES AND CISTERNS SHALL BE REMOVED OR CRUSHED IN PLACE AND BACKFILLED AND APPROVED BY THE GRADING INSPECTOR AND GEOTECHNICAL ENGINEER, UNLESS OTHERWISE NOTED ON THE PLANS.
11. SLOPES EXCEEDING FIVE FEET IN HEIGHT MUST BE PLANTED AND AN APPROVED IRRIGATION SYSTEM SHALL BE INSTALLED.
12. ALL TRENCH BACKFILLS SHALL BE TESTED AND APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER PER THE GRADING AND EXCAVATION CODE.
13. ALL CUT SLOPES SHALL BE INVESTIGATED BOTH DURING AND AFTER GRADING BY AN ENGINEERING GEOLOGIST TO DETERMINE IF ANY SLOPE STABILITY PROBLEM EXISTS SHOULD EXCAVATION DISCLOSE ANY GEOLOGICAL HAZARDS OR POTENTIAL GEOLOGICAL HAZARDS. THE ENGINEERING GEOLOGIST SHALL RECOMMEND NECESSARY TREATMENT TO THE CONSTRUCTION MANAGER FOR APPROVAL.

GRADING NOTES (CONTINUED)

14. THE FINAL COMPACTION REPORT AND APPROVAL FROM THE GEOTECHNICAL ENGINEER SHALL CONTAIN THE TYPE OF FIELD TESTING PERFORMED. THE METHOD OF OBTAINING THE IN-PLACE DENSITY, WHETHER SAND CONE, NUCLEAR GAGE, OR DRIVE RING SHALL BE NOTED FOR EACH TEST. SUFFICIENT MAXIMUM DENSITY DETERMINATIONS SHALL BE PERFORMED TO VERIFY THE ACCURACY OF THE MAXIMUM DENSITY CURVES USED BY THE FIELD TECHNICIAN. SEE GEOTECHNICAL AND GEOLOGICAL ENGINEERING INVESTIGATION REPORT.
15. SANITARY FACILITIES SHALL BE MAINTAINED ON THE SITE.
16. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF AND PROTECT ALL EXISTING UTILITIES AND TO ENSURE SERVICE IS NOT DISRUPTED TO EXISTING FACILITIES.
17. ALL EXISTING DRAINAGE COURSES ON THE PROJECT SITE MUST CONTINUE TO FUNCTION, ESPECIALLY DURING STORM CONDITIONS AND APPROVED PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISIONS MUST BE USED TO PROTECT ADJOINING PROPERTIES DURING THE GRADING PROJECT. IN ALL CASES, THE CONTRACTOR SHALL BE HELD LIABLE FOR ANY DAMAGE DUE TO CONSTRUCTING NATURAL OR EXISTING DRAINAGE PATTERNS.
18. WHENEVER THERE IS AN EXISTING CATCH BASIN ALONG OR ADJACENT TO THE CONSTRUCTION SITE FRONTAGE, AN ON-SITE STORM DRAIN OR SWALE SHALL BE CONSTRUCTED TO CONVEY WATER DIRECTLY TO THE BASIN. EXCEPTIONS SHALL REQUIRE APPROVAL BY THE CIVIL ENGINEER.
19. ALL PLANTERS ADJACENT TO THE FOUNDATIONS SHALL BE SEALED ALONG SIDE OF THE FOUNDATION FOOTING AND EXTENDED UNDER THE PLANTER AREA TO A MINIMUM OF 12 INCHES TO PREVENT MOISTURE FROM REACHING THE FOUNDATION SUBGRADE SOLES.
20. EXPORT SOILS MUST GO TO A LEGAL DUMP SITE OR TO A PERMITTED SITE APPROVED BY THE LOCAL AGENCY HAVING JURISDICTION.
21. ANY DIRT, ROCK OR CONSTRUCTION MATERIAL THAT MAY BE TRACKED OR DROPPED WITHIN THE PUBLIC RIGHT-OF-WAY DURING THE TRANSPORTATION OF SAID MATERIAL OR EQUIPMENT ASSOCIATED WITH THE PROJECT SHALL BE CLEANED OR REMOVED DAILY AND AS DEEMED NECESSARY BY THE CONSTRUCTION MANAGER.
22. DIRT ACCESS RAMPS OVER CURB AND GUTTER TO CONSTRUCTION SITE ARE NOT ALLOWED. WHEN NECESSARY FOR ENTRANCE TO SUCH CONSTRUCTION SITES, ASPHALT RAMPS WITH A MINIMUM 3" DIAMETER PIPE WILL BE CONSTRUCTED TO CONVEY GUTTER DRAINAGE. ALL BASE, GRAVEL, SOIL OR OTHER MATERIAL CARRIED INTO THE ROADWAY BY CONTRACTORS PERSONNEL OR EQUIPMENT WILL BE CLEANED AS NECESSARY AND NO LESS THAN ONCE A DAY. TRUCKS HAULING BASE, GRAVEL, FILL OR EXPORT MATERIALS WILL BE TARPED AS NECESSARY TO PREVENT MATERIAL FROM SPILLING INTO THE ROADWAY.
23. PRIOR TO ANY CONSTRUCTION WHICH INVOLVES HAZARDOUS CONDITIONS, THE CONTRACTOR SHALL FIRST OBTAIN A PERMIT FROM THE DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (OSHA).
24. PROPOSED REVISIONS TO THE GRADING PLAN SHALL BE DRAWN IN RED PENCIL ON BOND COPIES OF THE APPROVED PLAN. THESE REDLINES ARE THEN TO BE SUBMITTED TO THE OWNERS REPRESENTATIVES FOR REVIEW AND APPROVAL. ONLY AFTER THE BOND COPIES APPROVAL IS GIVEN SHOULD THE ORIGINALS BE AS-BUILT BY THE ENGINEER/ARCHITECT.
25. RULE 403, AIR QUALITY CONTROL MANAGEMENT DISTRICT, MUST BE IMPLEMENTED DURING CONSTRUCTION.
    a. A PERSON SHALL NOT CAUSE OR ALLOW THE EMISSIONS OF FUGITIVE DUST FROM ANY TRANSPORT, HANDLING, CONSTRUCTION OR STORAGE ACTIVITY SO THAT THE PRESENCE OF SUCH DUST REMAINS VISIBLE IN THE ATMOSPHERE BEYOND THE PROPERTY LINE OF THE EMISSION SOURCE. (DOES NOT APPLY TO EMISSION EMANATING FROM UNPAVED ROADWAYS OPEN TO PUBLIC TRAVEL OR FARM ROADS. THIS EXCLUSION SHALL NOT APPLY TO INDUSTRIAL OR COMMERCIAL FACILITIES).
    b. A PERSON SHALL TAKE EVERY REASONABLE PRECAUTION TO MINIMIZE FUGITIVE DUST EMISSIONS FROM WRECKING EXCAVATION GRADING, CLEARING OF LAND AND SOLID WASTE DISPOSAL OPERATIONS.
    c. A PERSON SHALL NOT CAUSE OR ALLOW PARTICULATE WATER TO EXCEED 100 MICROGRAMS PER CUBIC METER WHEN DETERMINED AS THE DIFFERENCE BETWEEN UPWIND AND DOWN WIND SAMPLES COLLECTED ON HIGH VOLUME SAMPLERS AT THE PROPERTY LINE FOR A MINIMUM OF FIVE HOURS.
    d. A PERSON SHALL TAKE EVERY REASONABLE PRECAUTION TO PREVENT VISIBLE PARTICULATE WATER FROM BEING DEPOSITED UPON PUBLIC ROADWAYS. PRECAUTIONS SHALL INCLUDE BUT ARE NOT LIMITED TO, THE REMOVAL OF PARTICULATE MATTER FROM EQUIPMENT PRIOR TO MOVEMENT ON PAVED STREETS ONTO WHICH SUCH MATERIAL HAS BEEN DEPOSITED.
    e. SUBSECTIONS (A) AND (B) SHALL NOT BE APPLICABLE WHEN THE WIND SPEED INSTANTANEOUSLY EXCEEDS 40 KILOMETERS (25 MILES) PER HOUR, OR WHEN THE AVERAGE WIND SPEED IS GREATER THAN 24 KILOMETERS (15 MILES) PER HOUR. THE AVERAGE WIND SPEED DERMINATIONS SHALL BE ON A 15 MINUTE AVERAGE AT THE NEAREST OFFICIAL AIR-MONITORING STATION OR BY WIND INSTRUMENT LOCATED AT THE SITE BEING CHECKED.
26. CONTRACTORS SHALL USE LOW EMISSION MOBILE CONSTRUCTION EQUIPMENT DURING ALL SITE PREPARATION, GRADING AND CONSTRUCTION ACTIVITIES, WHERE FEASIBLE.
27. CONTRACTORS SHALL MAINTAIN ALL CONSTRUCTION ENGINES TUNED CONSISTENT WITH MANUFACTURER'S SPECIFICATIONS DURING ALL SITE PREPARATION, GRADING AND CONSTRUCTION ACTIVITIES.
28. CONTRACTORS SHALL USE LOW SULFUR FUEL FOR STATIONARY CONSTRUCTION EQUIPMENT AS REQUIRED BY AQMD RULES 431.1 AND 431.2 AND SHALL USE EXISTING POWER SOURCES AND CLEAN FUEL GENERATORS AS FEASIBLE, DURING ALL SITE PREPARATION, GRADING AND CONSTRUCTION ACTIVITIES.
29. CONSTRUCTION PARKING SHALL BE ONSITE. TRAFFIC CONTROL AND ACCESS SHALL BE IN ACCORDANCE WITH COUNTY CONSTRUCTION REQUIREMENTS
30. THE SPEED OF TRUCKS ONSITE SHALL BE LIMITED TO 15 MPH.
31. TRUCKS AND LARGE CONSTRUCTION VEHICLES WILL OBTAIN APPROVED TRUCK ROUTES FROM THE AGENCIES HAVING JURISDICTION OVER PROPOSED ROUTES.
32. THE CONTRACTOR SHALL CONTROL DUST IN AREAS USED FOR OFF-ROAD PARKING MATERIALS LAYDOWN OR THOSE AWAITING FUTURE CONSTRUCTION. FREQUENTLY ACCESSED AREAS SHALL BE PAVED AS EARLY AS POSSIBLE TO MINIMIZE DIRT TRACKOUT TO THE PUBLIC RIGHT OF WAY.
33. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING MEASURES:
    a. CESSATION OF ACTIVITIES DURING A STAGE-2 SMOG EPISODE. CALL 1-800-242-4022 FOR THE DAILY SMOG FORECAST.
    b. TRUCK ROUTES AND SCHEDULES FOR THE RECEIPT OF MATERIALS SHALL BE COORDINATED WITH THE MANAGER OF BUILDING AND SAFETY.
    c. WHERE FEASIBLE, ON-ROAD VEHICLES AND OFF-ROAD EQUIPMENT SHALL BE TURNED OFF AND SUBSEQUENTLY RESTARTED IF THE ANTICIPATED DURATION OF IDLING IS EXPECTED TO EXCEED FIVE (5) MINUTES.
34. THE CONTRACTOR SHALL IMPLEMENT THE FOLLOWING HIGH WIND DUST CONTROL WHEN WIND GUSTS EXCEED 25 MPH:
    a. TERMINATION/MODIFICATION OF OPERATION OF SCRAPERS, GRADERS OR DOZERS ON UNPAVED SURFACES UNTIL WINDS SUBSIDE.
    b. APPLICATION OF WATER AS NEEDED TO ANY UNPAVED SURFACE WITH VEHICLE OR EQUIPMENT OPERATIONS.
    c. APPLICATION OF WATER OR OTHER DUST CONTROL MATERIAL TO ANY PREVIOUSLY GRADED SURFACE IF DUST EMANATION IS VISIBLE FROM SUCH A SURFACE.
35. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EQUIPMENT TO PREVENT VISIBLE SOOT FROM REDUCING LIGHT TRANSMISSION THROUGH THE EXHAUST STACK BY MORE THAN 20 PERCENT FOR MORE THAN THREE MINUTES PER HOUR AND USE LOW-SULFER FUEL AS REQUIRED BY SCAQMD REGULATIONS.
36. TRUCKS USED IN HAULING DIRT TO OR FROM THE SITE ON PUBLIC ROADS WILL BE COVERED OR WILL MAINTAIN A SIX INCH DIFFERENTIAL BETWEEN THE MAXIMUM HEIGHT OF ANY HAULED MATERIAL AND THE TOP OF THE TRAILER. HAUL TRUCK DRIVERS WILL LOAD PRIOR TO LEAVING THE SITE TO PREVENT SOIL LOSS DURING TRANSPORTATION.
37. PURSUANT TO SECTION 8771 OF THE BUSINESS AND PROFESSIONS CODE, EXISTING SURVEY MONUMENTS SHALL BE NOTED AND DOCUMENTED BEFORE CONSTRUCTION. IF MONUMENTS ARE DISTURBED DURING CONSTRUCTION, THE CONTRACTOR SHALL PAY A LICENSED LAND SURVEYOR OR REGISTERED ENGINEER TO RESET SUCH MONUMENTS.

EXISTING UTILITY NOTES

1. THE GENERAL CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT AND NOTIFY APPROPRIATE UTILITY AGENCIES TO VERIFY AND LOCATE ALL EXISTING UNDERGROUND UTILITIES BEFORE COMMENCING ANY EXCAVATION.
2. THE GENERAL CONTRACTOR SHALL POTHOLE TO LOCATE AND VERIFY ALL EXISTING UTILITIES, POINT OF CONNECTIONS, AND CROSSINGS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNERS REPRESENTATIVE.
3. THE LOCATIONS OF EXISTING AND NEW UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY; ALL UTILITIES MAY NOT BE SHOWN.
4. SOME IRRIGATION PIPING AND ELECTRICAL CONDUIT LOCATIONS AND SIZES ARE UNKNOWN AND NOT IDENTIFIED HEREON.
5. SUBSURFACE UTILITIES SHOWN HEREON HAVE BEEN COMPILED FROM RECORD INFORMATION GATHERED FROM VARIOUS SOURCES. THE SUBSURFACE INFORMATION, INCLUDING LOCATION, SIZES, AND CAPACITIES IS AN ESTIMATION BASED ON AVAILABLE DATA AND MAY NOT REPRESENT ACTUAL FIELD CONDITIONS. ECG DOES NOT WARRANT THE ACCURACY OF COMPLETENESS OF SAID RECORD INFORMATION.
6. THE CONTRACTOR, BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS PURSUANT THERETO, UNDERSTANDS THAT THEY AGREE TO ASSUME LIABILITY, AND AGREE TO HOLD THE UNDERSIGNED HARMLESS FOR ANY LIABILITY FOR DAMAGE RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED TO THE UNDERSIGNED, NOT INDICATED ON THE RECORDS PROVIDED, LOCATED AT VARIANCE WITH THAT REPORTED OR SHOWN ON AVAILABLE RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES FOUND AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING TO WORK.
7. THE CONTRACTOR SHALL MAINTAIN EXISTING UTILITY SERVICES TO BUILDINGS OR OTHER STRUCTURES INTENDED TO REMAIN IN OPERATIONAL SERVICE DURING THE COURSE OF CONSTRUCTION.

STORMWATER POLLUTION PLAN NOTES

1. IN CASE OF EMERGENCY CALL: TO BE DETERMINED
2. A STAND-BY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON (NOVEMBER 1 TO APRIL 15). NECESSARY MATERIALS SHALL BE AVAILABLE ON-SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF EMERGENCY DEVICES WHEN RAIN IS IMMINENT.
3. EROSION CONTROL DEVICES SHOWN ON THIS PLAN MAY BE REMOVED WHEN APPROVED BY THE BUILDING OFFICIAL IF THE GRADING OPERATION HAS PROGRESSED TO THE POINT WHERE THEY ARE NO LONGER REQUIRED.
4. GRADED AREAS ADJACENT TO FILL SLOPES LOCATED AT THE SITE PERIMETER MUST DRAIN AWAY FROM THE TOP OF SLOPE AT THE CONCLUSION OF EACH WORKING DAY. ALL LOOSE SOILS AND DEBRIS THAT MAY CREATE A POTENTIAL HAZARD TO OFF-SITE PROPERTY SHALL BE STABILIZED OR REMOVED FROM THE SITE ON A DAILY BASIS.
5. ALL SILT AND DEBRIS SHALL BE REMOVED FROM ALL DEVICES WITHIN 24 HOURS AFTER EACH RAINSTORM AND BE DISPOSED OF PROPERLY.
6. A GUARD SHALL BE POSTED ON THE SITE WHENEVER THE DEPTH OF WATER IN ANY DEVICE EXCEEDS TWO FEET. THE DEVICE SHALL BE DRAINED OR PUMPED DRY WITHIN 24 HOURS AFTER EACH RAINSTORM. PUMPING AND DRAINING OF ALL BASINS AND DRAINAGE DEVICES MUST COMPLY WITH THE APPROPRIATE BMP FOR DEWATERING OPERATIONS.
7. THE PLACEMENT OF ADDITIONAL DEVICES TO REDUCE EROSION DAMAGE AND CONTAIN POLLUTANTS WITHIN THE SITE IS LEFT TO THE DISCRETION OF THE FIELD ENGINEER. ADDITIONAL DEVICES AS NEEDED SHALL BE INSTALLED TO RETAIN SEDIMENTS AND OTHER POLLUTANTS ON SITE.
8. DESILTING BASIN MAY NOT BE REMOVED OR MADE INOPERABLE BETWEEN NOVEMBER 1 AND APRIL 15 OF THE FOLLOWING YEAR WITHOUT THE APPROVAL OF THE BUILDING OFFICIAL. STORM WATER POLLUTION AND EROSION CONTROL DEVICES ARE TO BE MODIFIED, AS NEEDED, AS THE PROJECT PROGRESSES, THE DESIGN AND PLACEMENT OF THESE DEVICES IS THE RESPONSIBILITY OF THE FIELD ENGINEER.
9. PLANS REPRESENTING CHANGES MUST BE SUBMITTED FOR APPROVAL IF REQUESTED BY THE BUILDING OFFICIAL.
10. EVERY EFFORT SHOULD BE MADE TO ELIMINATE THE DISCHARGE OF NON STORM WATER FROM THE PROJECT SITES AT ALL TIMES.
11. ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON-SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES OR WIND.
12. STOCKPILES OF EARTH AND OTHER CONSTRUCTION-RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.
13. FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND AREA NOT TO CONTAMINATE THE SOILS AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM.
14. EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON-SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
15. CONTRACTORS ARE RESPONSIBLE TO INSPECT ALL EROSION CONTROL DEVICES BMPs ARE INSTALLED AND FUNCTIONING PROPERLY IF THERE IS A 40% CHANCE OF 0.25 INCHES OR GREATER OF PREDICTED PRECIPITATION, AND AFTER ACTUAL PRECIPITATION. A CONSTRUCTION SITE INSPECTION CHECKLIST AND INSPECTION LOG SHALL BE MAINTAINED AT THE PROJECT SITE AT ALL TIMES AND AVAILABLE FOR REVIEW BY THE BUILDING OFFICIAL. (COPIES OF THE SELF INSPECTION CHECK LIST AND INSPECTION LOGS ARE AVAILABLE UPON REQUEST).
16. TRASH AND CONSTRUCTION-RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OR RAINWATER AND DISPERSAL BY WIND.
17. SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
18. ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.
19. THE FOLLOWING BMPs FROM THE "CALIFORNIA STORM WATER BMP CONSTRUCTION HANDBOOK" - LATEST EDITION, MUST BE IMPLEMENTED FOR ALL CONSTRUCTION ACTIVITIES AS APPLICABLE.

STORMWATER POLLUTION PLAN NOTES (CONTINUED)

EROSION CONTROL:

EC-1	SCHEDULING
EC-2	PRESERVATION OF EXISTING VEGETATION
EC-3	HYDRAULIC MULCH
EC-4	HYDROSEEDING
EC-5	SOIL BINDERS
EC-6	STRAW MULCH
EC-7	GEOTEXTILES & MATS
EC-8	WOOD MULCHING
EC-9	EARTH DIKES AND DRAINAGE SWALES
EC-10	VELOCITY DISSIPATION DEVICES
EC-11	SLOPE DRAINS
EC-12	STREAMBANK STABILIZATION
EC-13	RESERVED
EC-14	COMPOST BLANKETS
EC-15	SOIL PREPARATION/ROUGHENING
EC-16	NON-VEGETATIVE STABILIZATION

TEMPORARY SEDIMENT CONTROL:

SE-1	SILT FENCE
SE-2	SEDIMENT BASIN
SE-3	SEDIMENT TRAP
SE-4	CHECK DAM
SE-5	FIBER ROLLS
SE-6	GRAVEL BAG BERM
SE-7	STREET SWEEPING AND VACUUMING
SE-8	SANDBAG BARRIER
SE-9	STRAW BALE BARRIER
SE-10	STORM DRAIN INLET PROTECTION
SE-11	ACTIVE TREATMENT SYSTEMS
SE-12	TEMPORARY SILT DIKE
SE-13	COMPOST SOCKS AND BERMS
SE-14	BIOFILTER BAGS

EQUIPMENT TRACKING CONTROL:

TC-1	STABILIZED CONSTRUCTION ENTRANCE/EXIT
TC-2	STABILIZED CONSTRUCTION ROADWAY
TC-3	ENTRANCE/OUTLET TIRE WASH

WIND EROSION CONTROL:

WE-1	WIND EROSION CONTROL

NON-STORMWATER MANAGEMENT:

NS-1	WATER CONSERVATION PRACTICES
NS-2	DEWATERING OPERATIONS
NS-3	PAVING AND GRINDING OPERATIONS
NS-4	TEMPORARY STREAM CROSSING
NS-5	CLEAR WATER DIVERSION
NS-6	ILLICIT CONNECTION/DISCHARGE
NS-7	POTABLE WATER/IRRIGATION
NS-8	VEHICLE AND EQUIPMENT CLEANING
NS-9	VEHICLE AND EQUIPMENT FUELING
NS-10	VEHICLE AND EQUIPMENT MAINTENANCE
NS-11	PILE DRIVING OPERATIONS
NS-12	CONCRETE CURING
NS-13	CONCRETE FINISHING
NS-14	MATERIAL OVER WATER
NS-15	DEMOLITION ADJACENT TO WATER
NS-16	TEMPORARY BATCH PLANTS

WASTE MANAGEMENT & MATERIAL POLLUTION CONTROL:

WM-1	MATERIAL DELIVERY AND STORAGE
WM-2	MATERIAL USE
WM-3	STOCKPILE MANAGEMENT
WM-4	SPILL PREVENTION AND CONTROL
WM-5	SOLID WASTE MANAGEMENT
WM-6	HAZARDOUS WASTE MANAGEMENT
WM-7	CONTAMINATED SOIL MANAGEMENT
WM-8	CONCRETE WASTE MANAGEMENT
WM-9	SANITARY/SEPTIC WASTE MANAGEMENT
WM-10	LIQUID WASTE MANAGEMENT

NOTE:
SITE INSPECTIONS ARE REQUIRED BEFORE AND AFTER STORMS TO ENSURE THAT ALL BMP'S ARE FUNCTIONAL AND TO DETERMINE MAINTENANCE.

REVISIONS

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VENTURA COLLEGE ECT PATH OF TRAVEL IMPROVEMENTS
NOTES
VENTURA, CA

SCALE: HORIZ. VERT.
WORK ORDER
DRAWN BY: RAR
CHECKED BY: GHP
SHEET NO. 2 OF 6

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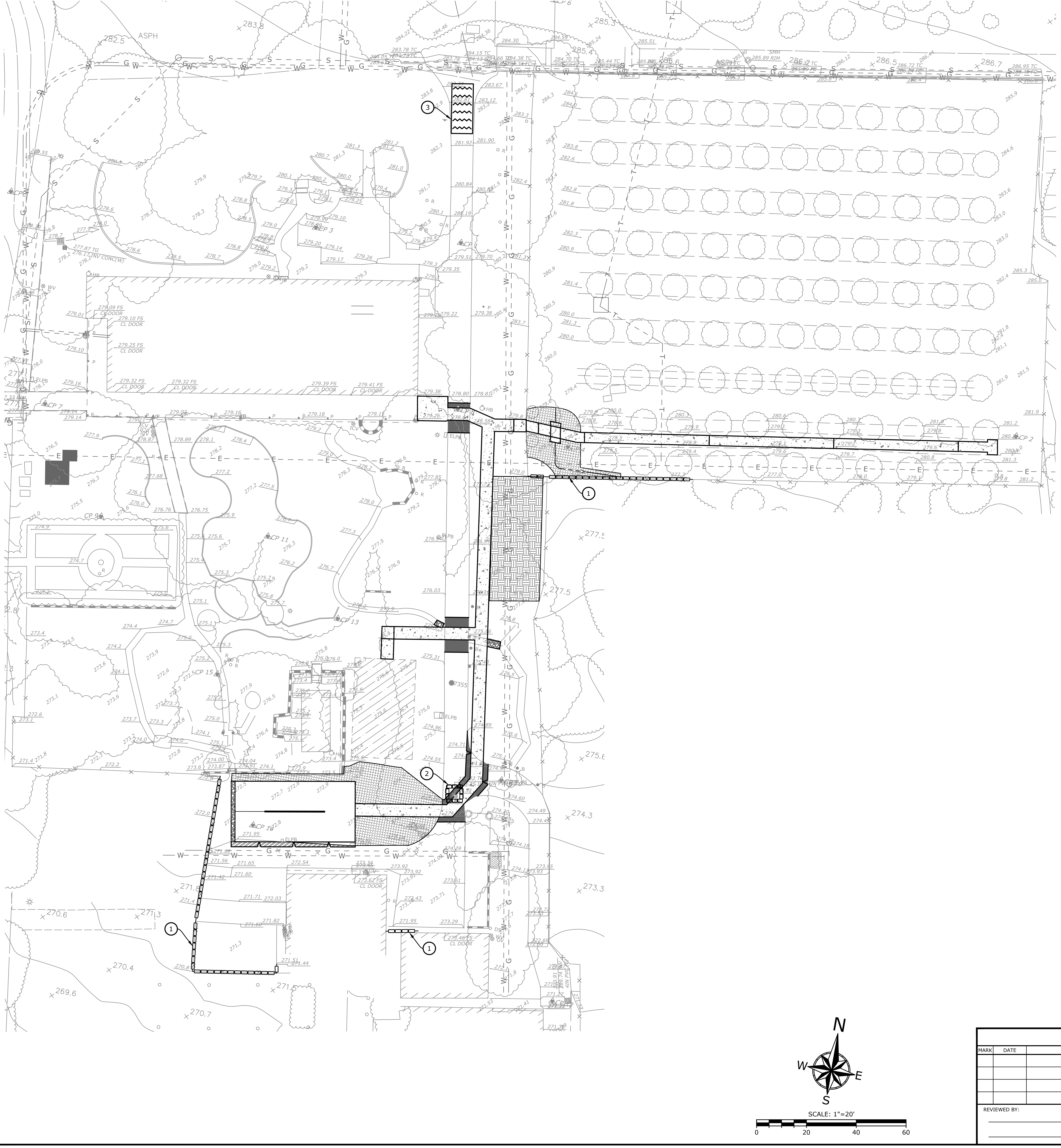

EROSION CONTROL CONSTRUCTION NOTES

① CONSTRUCT FIBER ROLLS PER BMP SE-5 IN CURRENT CASQA CONSTRUCTION BMP HANDBOOK , PRIOR TO AND DURING GRADING AND THE ESTABLISHMENT OF SITE LANDSCAPING AND PLANTINGS.

② CONSTRUCT TEMPORARY GRAVEL BAG CHECK DAM OR CATCH BASIN SEDIMENT BARRIER PER BMP SE-4 AND SE-10 IN CURRENT CASQA CONSTRUCTION BMP HANDBOOK. SEE DETAIL "A" ON SHEET 4. ALL GRAVEL BAGS MUST BE IN PLACE DURING PROJECT CONSTRUCTION.

③ CONSTRUCT "RUMBLE RACKS" AT ALL CONSTRUCTION SITE EXITS. RECOMMENDED LOCATION SHOWN, CONTRACTOR SHALL SUBMIT FINAL LOCATION TO SCHOOL'S REPRESENTATIVE FOR APPROVAL PRIOR TO CONSTRUCTION. SEE BMP TC-1 IN CURRENT CASQA CONSTRUCTION BMP HANDBOOK AND DETAIL "B" ON SHEET 4.

NPDES GENERAL NOTES

1. CONSTRUCTION SITES SHALL BE MAINTAINED IN SUCH A CONDITION THAT AN ANTICIPATED STORM OR CONSTRUCTION ACTIVITY DOES NOT CARRY WASTES OR POLLUTANTS OFF THE SITE.
2. DISCHARGES OF MATERIALS OTHER THAN STORM WATER ARE ALLOWED ONLY WHEN NECESSARY FOR PERFORMANCE AND COMPLETION OF CONSTRUCTION PRACTICES AND WHERE THEY DO NOT: CAUSE OR CONTRIBUTE TO A VIOLATION OF ANY WATER QUALITY STANDARD; CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR NUISANCE; OR CONTAIN A HAZARDOUS SUBSTANCE IN A QUANTITY REPORTABLE UNDER FEDERAL REGULATIONS 40 CFR PARTS 117 & 302.
3. POTENTIAL POLLUTANTS INCLUDE BUT ARE NOT LIMITED TO: SOLID OR LIQUID CHEMICAL SPILLS: WASTES FROM PAINTS, STAINS, SEALANTS, GLUES, LIMES, PESTICIDES, HERBICIDES, WOOD PRESERVATIVES AND SOLVENTS; ASBESTOS, FIBERS, PAINT FLAKES OR STUCCO FRAGMENTS; FUELS, OILS, LUBRICANTS, AND HYDRAULIC, RADIATOR OR BATTERY FLUIDS; FERTILIZERS, VEHICLE/EQUIPMENT WASH WATER AND CONCRETE WASH WATER; CONCRETE, DETERGENT OR FLOATABLE WASTES; WASTES FROM ANY ENGINE/EQUIPMENT STEAM CLEANING OR CHEMICAL DEGREASING; AND SUPERCHLORINATED POTABLE WATER LINE FLUSHINGS.
4. DURING CONSTRUCTION, DISPOSAL OF SUCH MATERIALS SHOULD OCCUR IN A SPECIFIED AND CONTROLLED TEMPORARY AREA ON-SITE, PHYSICALLY SEPARATED FROM POTENTIAL STORM WATER RUN-OFF, WITH ULTIMATE DISPOSAL IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.
5. DEWATERING OF CONTAMINATED GROUNDWATER, OR DISCHARGING CONTAMINATED SOILS VIA SURFACE EROSION, IS PROHIBITED. DEWATERING OF NON-CONTAMINATED GROUNDWATER REQUIRES A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FROM THE RESPECTIVE STATE OF WATER QUALITY CONTROL BOARD.
6. ALL ACTIVITIES WILL CONFORM TO CALIFORNIA STATE WATER RESOURCES CONTROL BOARD NPDES PERMIT NO. CAS000002 AND CALIFORNIA STORM WATER BEST MANAGEMENT PRACTICES HANDBOOK.
7. THE PROJECT CONTRACTOR SHALL INCORPORATE BEST MANAGEMENT PRACTICE (BMP'S) APPLICABLE TO THE DEVELOPMENT. BMP'S FOR THIS PROJECT WILL INCLUDE (BUT ARE NOT LIMITED TO THE FOLLOWING):
    A. ALL STORM DRAIN INLETS SHALL BE LABELED “DON'T DUMP - DRAINS TO OCEAN”
    B. ALL AREAS SHALL BE MAINTAINED FREE OF LITTER AND DEBRIS TO PREVENT THE ACCUMULATION OF LITTER AND DEBRIS FROM ENTERING THE STORM DRAIN OR BEING BLOWN OFF THE SITE. NO CLEANING AGENT OR OTHER POLLUTANT SHALL BE DISCHARGED INTO THE STORM DRAIN SYSTEM. IF ANY CLEANING AGENT OR DEGREASER IS USED, WASH WATER SHALL NOT BE DISCHARGED TO THE STORM DRAIN OR DISCARDED ON SITE. WASH WATER SHALL BE COLLECTED BY VACUUM OR OTHER SUCH APPROPRIATE METHOD AND DISCARDED AT AN APPROVED DISPOSAL LOCATION.
    C. ALL STORM DRAINS SHALL BE CLEANED, USING APPROPRIATE METHODS AND TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE
8. A DESIGNATED QUALIFIED SWPPP PRACTITIONER (QSP) SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE SWPPP MEASURES.
9. A STANDBY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON (NOVEMBER 1 TO APRIL 15). NECESSARY MATERIALS SHALL BE AVAILABLE ON-SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF EMERGENCY DEVICES WHEN RAIN IS IMMINENT.
10. ALL SILT AND DEBRIS SHALL BE REMOVED FROM ALL DEVICES WITHIN 24 HOURS AFTER EACH RAINSTORM.
11. THE LOCATION AND DESIGN OF ALL EROSION CONTROL MEASURES SHOWN ON THESE PLANS ARE TENTATIVE ONLY AND SUBJECT TO REVISIONS AS DETERMINED BY THE QSP. ACTUAL EROSION CONTROL SHALL BE INSTALLED TO THE SATISFACTION OF THE RESIDENT INSPECTOR AS CONDITIONS WARRANT. SILT, DEBRIS AND MUD SHALL BE PROMPTLY REMOVED FROM ALL EROSION CONTROL STRUCTURES AFTER EACH RAIN TO THE SATISFACTION OF THE RESIDENT INSPECTOR.
12. THE FOLLOWING BMPS FROM THE CALIFORNIA STORMWATER QUALITY ASSOCIATION - STORMWATER BEST MANAGEMENT PRACTICE HANDBOOK (CONSTRUCTION), NEWEST EDITION, MUST BE IMPLEMENTED FOR ALL CONSTRUCTION ACTIVITIES AS APPLICABLE:
13. THE FOLLOWING INSPECTIONS ARE REQUIRED FOR WORK COMPLETED WITH A POLLUTION, SEDIMENT AND EROSION CONTROL PERMIT:
    A. SITE INVESTIGATION: UPON SUBMITTAL OF AN APPLICATION FOR A POLLUTION, SEDIMENT AND EROSION CONTROL PERMIT;
    B. INITIAL INSPECTION: WHEN PERMITTEE IS READY TO BEGIN WORK, OR DURING THE EARLY STAGES OF THE PERMITTED WORK;
    C. DRAINAGE DEVICES: PRIOR TO BURIAL OF PIPING OR POURING OF CONCRETE;
    D. FINAL INSPECTION: WHEN ALL EROSION CONTROL WORK, INCLUDING INSTALLATION OF DRAINAGE STRUCTURES, OTHER PROTECTIVE DEVICES, SEEDING AND SLOPE STABILIZATION HAS BEEN COMPLETED.

LEGEND

▨	POURED IN PLACE CONCRETE	— SD —	PROPOSED STORM DRAIN
■	ASPHALT	— G —	EXISTING GAS
▨	ASPHALT TO BE REMOVED	— W —	EXISTING WATER
▨	STONE	— T —	EXISTING TELEPHONE
▨	DECOMPOSED GRANITE	— E —	EXISTING ELECTRIC
▨	LIMITS OF GRADING	—⋀—	SAWCUT

REVISIONS

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VENTURA COLLEGE ECT PATH OF TRAVEL IMPROVEMENTS
EROSION CONTROL PLAN
VENTURA, CA

SCALE: HORIZ.______ VERT.______

WORK ORDER
DRAWN BY: RAR
CHECKED BY: GHP

SHEET NO. 3 OF 6

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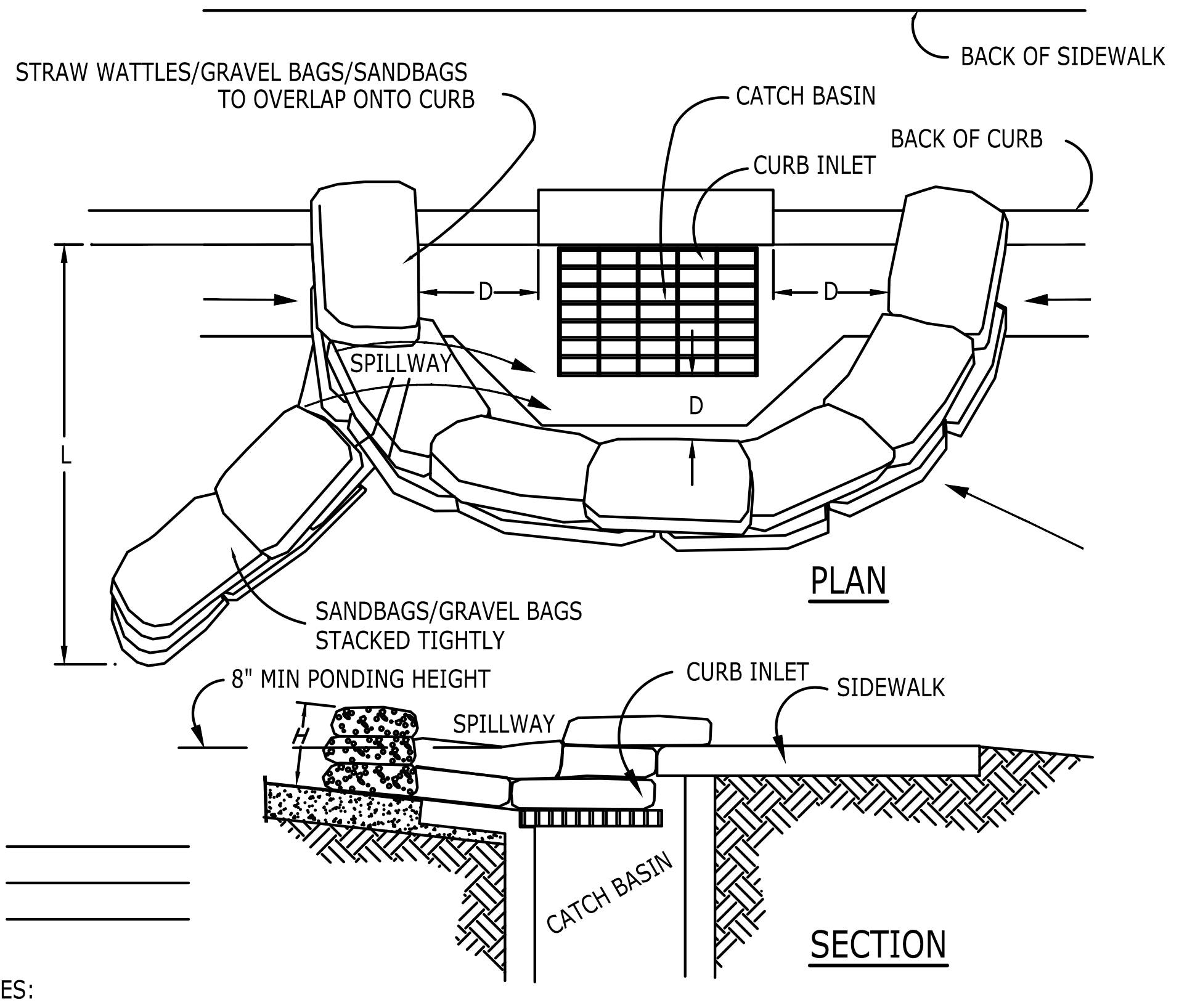
A CATCH BASIN/INLET PROTECTION SE-10



D = ____________

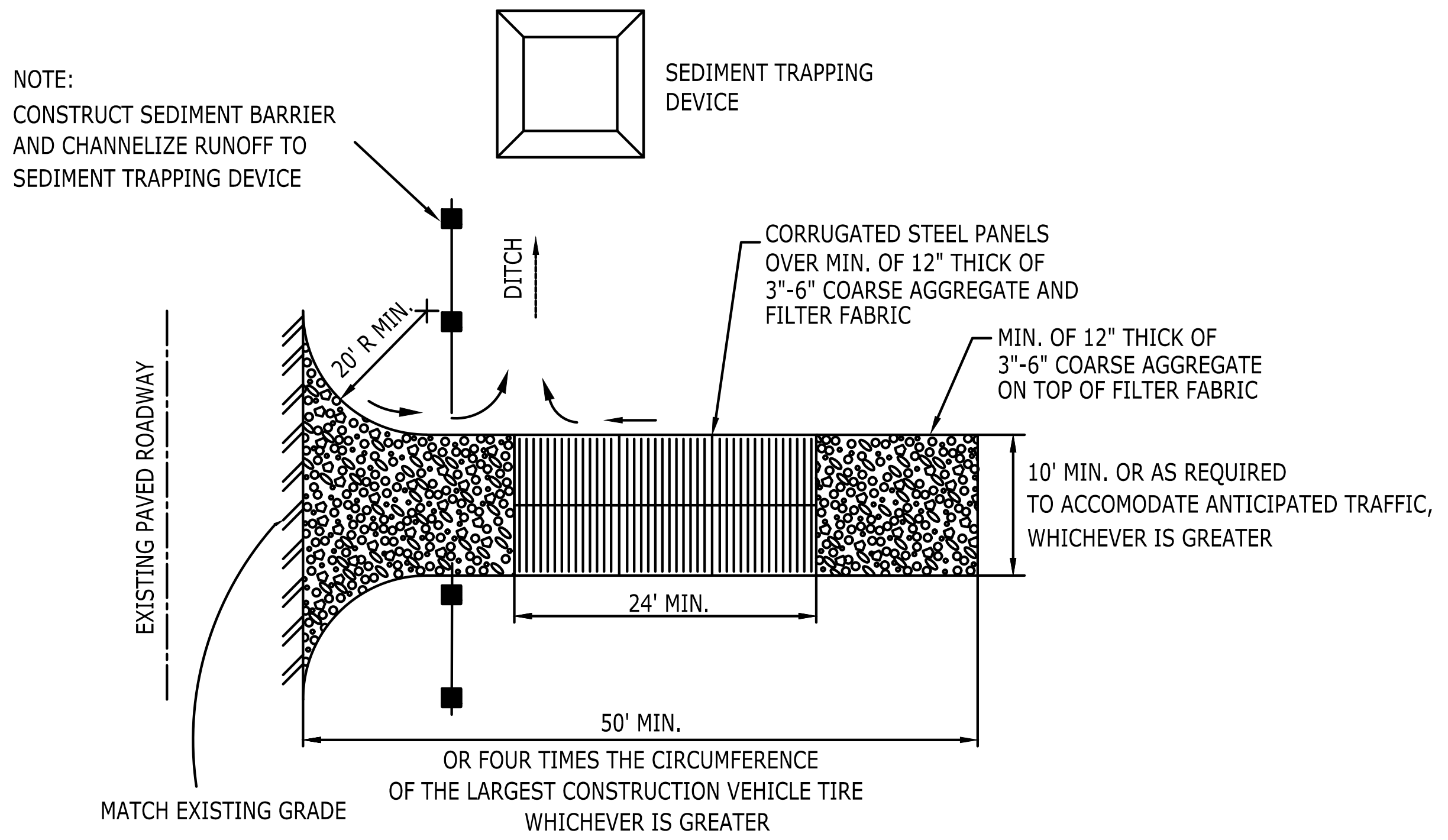
H = ____________

L = ____________

NOTES:

1. CATCH BASIN/INLET PROTECTION SHALL BE INSTALLED WHEREVER THERE IS A POTENTIAL OF STORMWATER OR NON-STORMWATER BEING DISCHARGED INTO IT.
2. INLET PROTECTION IS REQUIRED ALONG WITH OTHER POLLUTION PREVENTION MEASURES SUCH AS; EROSION CONTROL, SOIL STABILIZATION, AND MEASURES TO PREVENT TRACKING ONTO PAVED SURFACES.
3. MODIFY INLET PROTECTION AS NEEDED TO AVOID CREATING TRAFFIC HAZARDS.
4. INCLUDE INLET PROTECTION MEASURES AT HILLSIDE V-DITCHES AND MISC. DRAINAGE SWALES.
5. INLET PROTECTION SHALL BE INSPECTED AND ACCUMULATED SEDIMENTS REMOVED. SEDIMENT SHALL BE DISPOSED OF PROPERLY AND IN A MANNER THAT ASSURES THAT THE SEDIMENT DOES NOT ENTER THE STORM DRAIN SYSTEM.
6. DAMAGED BAGS SHALL BE REPLACED IMMEDIATELY.
7. ADDITIONAL SANDBAG SEDIMENT TRAPS SHALL BE PLACED AT INTERVALS AS INDICATED ON SITE PLAN.

B STABILIZED CONSTRUCTION ENTRANCE TC-1



NOTES:

1. SEDIMENTS AND OTHER MATERIALS SHALL NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS SHALL BE STABILIZED SO AS TO PREVENT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC ROADS. DEPOSITIONS MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS INTO THE STORM DRAIN SYSTEM.
2. STABILIZED CONSTRUCTION ENTRANCE SHALL BE:
   A. LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC RIGHT OF WAY, STREET, ALLEY, AND SIDEWALK OR PARKING AREA.
   B. A SERIES OF STEEL PLATES WITH "RUMBLE STRIPS", AND/OR MIN 3"-6" COARSE AGGREGATE WITH LENGTH, WIDTH & THICKNESS AS NEEDED TO ADEQUATLY PREVENT ANY TRACKING ONTO PAVED SURFACES.
3. ADDING A WASH RACK WITH A SEDIMENT TRAP LARGE ENOUGH TO COLLECT ALL WASH WATER CAN GREATLY IMPROVE EFFICIENCY.
4. ALL VEHICLES ACCESSING THE CONSTRUCTION SITE SHALL UTILIZE THE STABILIZED CONSTRUCTION ENTRANCE SITES.

STREET MAINTENANCE SE-7

NOTES:

1. REMOVE ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS IMMEDIATELY.
2. SWEEP PAVED AREAS THAT RECEIVE CONSTRUCTION TRAFFIC WHENEVER SEDIMENT BECOMES VISIBLE.
3. PAVEMENT WASHING WITH WATER IS PROHIBITED IF IT RESULTS IN A DISCHARGE TO THE STORM DRAIN SYSTEM.

REVISIONS

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VENTURA COLLEGE ECT PATH OF TRAVEL IMPROVEMENTS
DETAILS
VENTURA, CA

SCALE: HORIZ.__________ VERT.__________

WORK ORDER

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SHEET NO. 4 OF 6

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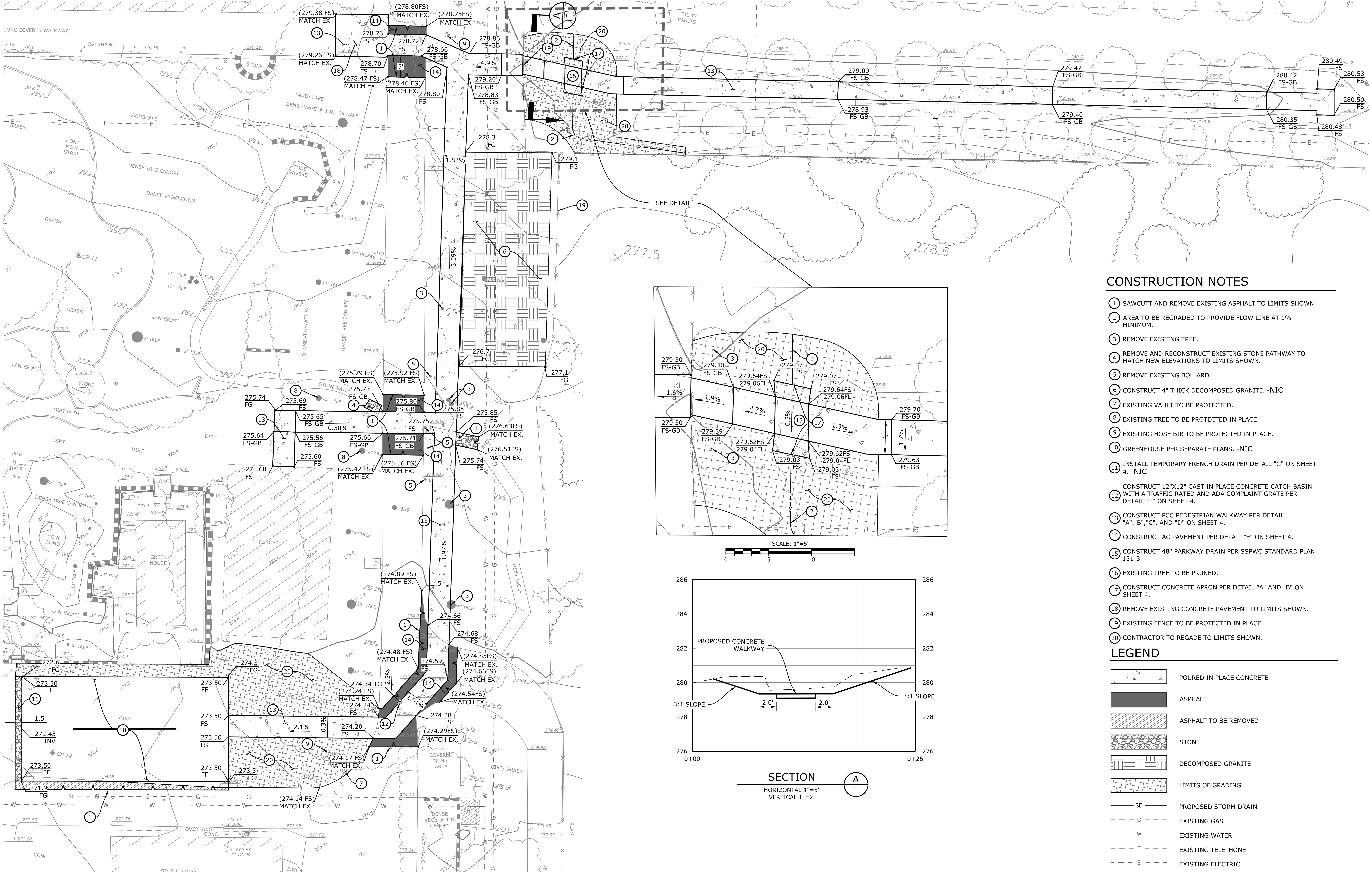
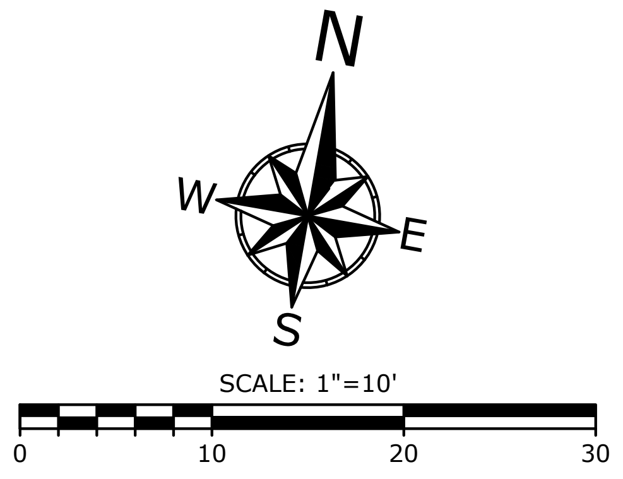


CONSTRUCTION NOTES

1. ① SAWCUTT AND REMOVE EXISTING ASPHALT TO LIMITS SHOWN.
2. ② AREA TO BE REGRADED TO PROVIDE FLOW LINE AT 1% MINIMUM.
3. ③ REMOVE EXISTING TREE.
4. ④ REMOVE AND RECONSTRUCT EXISTING STONE PATHWAY TO MATCH NEW ELEVATIONS TO LIMITS SHOWN.
5. ⑤ REMOVE EXISTING BOLLARD.
6. ⑥ CONSTRUCT 4" THICK DECOMPOSED GRANITE. -NIC
7. ⑦ EXISTING VAULT TO BE PROTECTED.
8. ⑧ EXISTING TREE TO BE PROTECTED IN PLACE.
9. ⑨ EXISTING HOSE BIB TO BE PROTECTED IN PLACE.
10. ⑩ GREENHOUSE PER SEPARATE PLANS. -NIC
11. ⑪ INSTALL TEMPORARY FRENCH DRAIN PER DETAIL "G" ON SHEET 4. -NIC
12. ⑫ CONSTRUCT 12"X12" CAST IN PLACE CONCRETE CATCH BASIN WITH A TRAFFIC RATED AND ADA COMPLAINT GRATE PER DETAIL "F" ON SHEET 4.
13. ⑬ CONSTRUCT PCC PEDESTRIAN WALKWAY PER DETAIL "A","B","C", AND "D" ON SHEET 4.
14. ⑭ CONSTRUCT AC PAVEMENT PER DETAIL "E" ON SHEET 4.
15. ⑮ CONSTRUCT 48" PARKWAY DRAIN PER SSPWC STANDARD PLAN 151-3.
16. ⑯ EXISTING TREE TO BE PRUNED.
17. ⑰ CONSTRUCT CONCRETE APRON PER DETAIL "A" AND "B" ON SHEET 4.
18. ⑱ REMOVE EXISTING CONCRETE PAVEMENT TO LIMITS SHOWN.
19. ⑲ EXISTING FENCE TO BE PROTECTED IN PLACE.
20. ⑳ CONTRACTOR TO REGADE TO LIMITS SHOWN.

LEGEND

▨	POURED IN PLACE CONCRETE
■	ASPHALT
▨	ASPHALT TO BE REMOVED
▩	STONE
▦	DECOMPOSED GRANITE
▨	LIMITS OF GRADING
— SD —	PROPOSED STORM DRAIN
— G —	EXISTING GAS
— W —	EXISTING WATER
— T —	EXISTING TELEPHONE
— E —	EXISTING ELECTRIC
⋀	SAWCUT



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VENTURA COLLEGE ECT PATH OF TRAVEL IMPROVEMENTS GRADING & PAVING PLAN

VENTURA, CA

SCALE: HORIZ.________ VERT.________

WORK ORDER
DRAWN BY: RAR
CHECKED BY: GHP

SHEET NO. 5 OF 6

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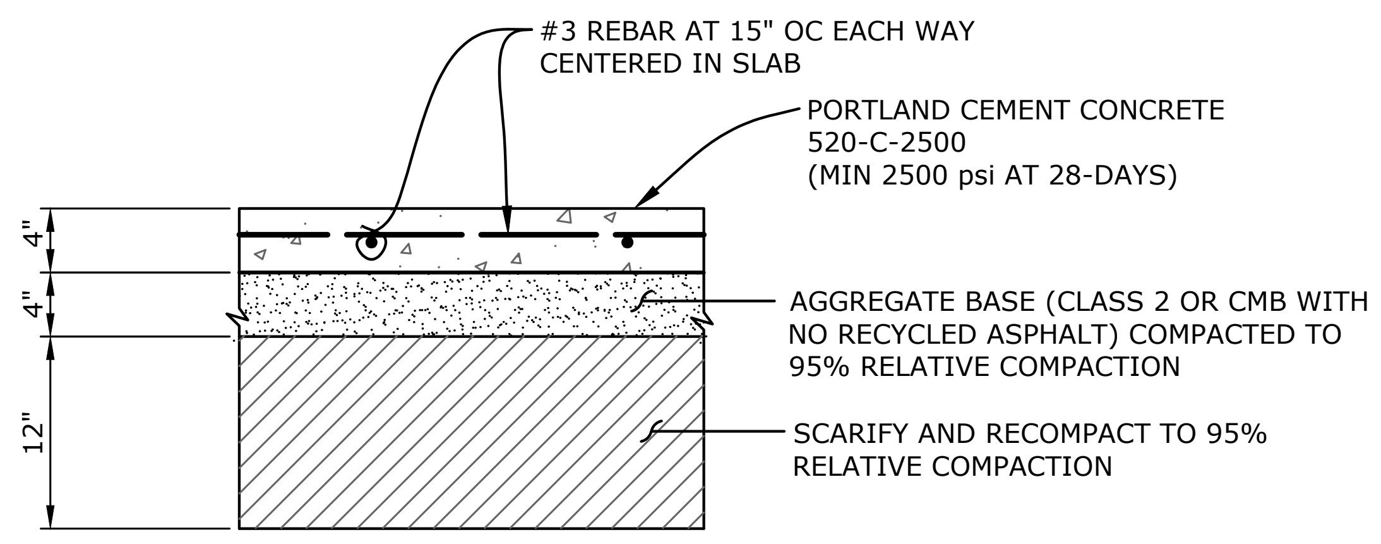


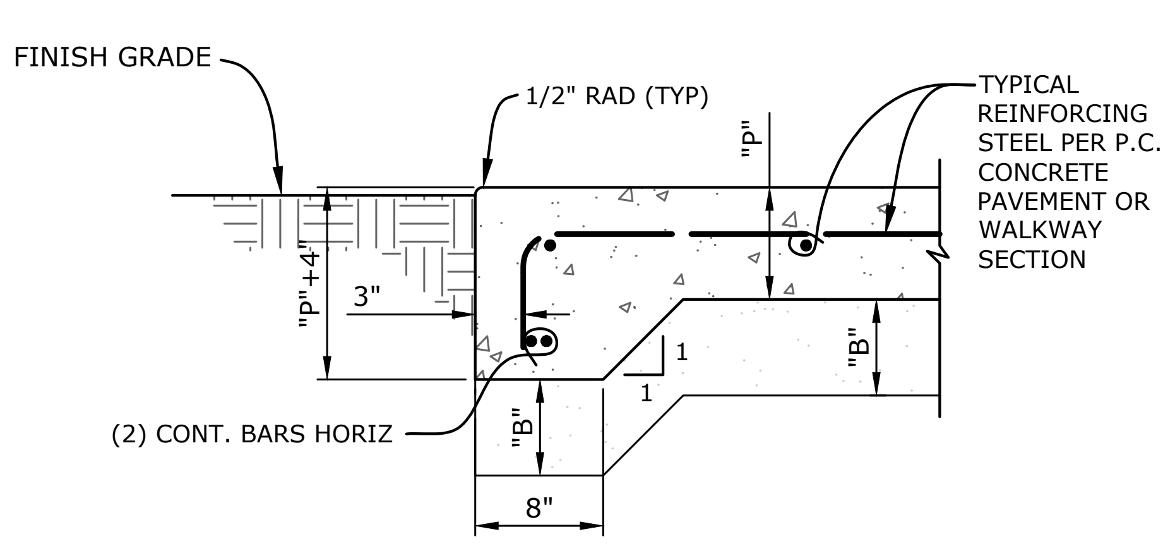
NOTES:

1. CONSTRUCT THICKENED EDGE AT WALKWAY PERIMETER PER DETAIL "B" THIS SHEET
2. SAWCUT OR TOOLED CRACK CONTROL JOINTS AT 5' MAX O.C. E.W. PER DETAIL "C" THIS SHEET
3. CONSTRUCT EXPANSION JOINTS AT 11' MAX O.C. E.W. AND AT ADJACENT STRUCTURES PER DETAIL "D" THIS SHEET

PCC WALKWAY PAVEMENT SECTION

A
-

SCALE: N.T.S.

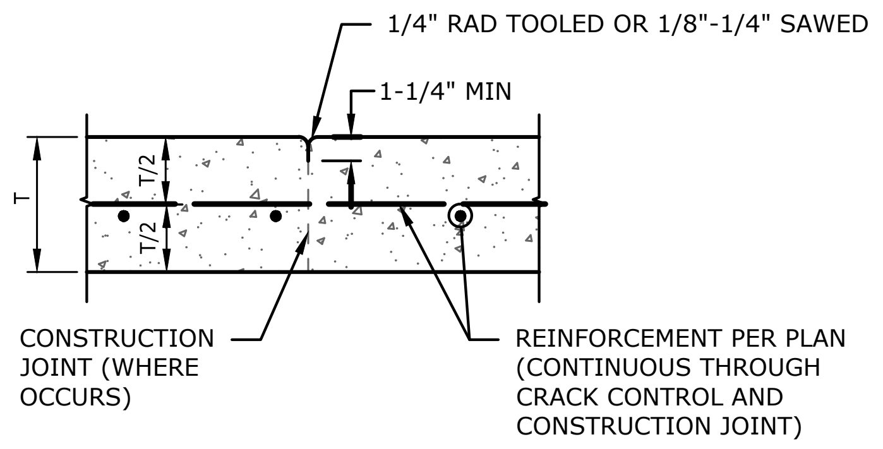


"P"= PORTLAND CEMENT CONCRETE THICKNESS (INCHES)
"B"= BASE LAYER THICKNESS (INCHES)

PCC PAVEMENT OR WALKWAY THICKENED EDGE

B
-

SCALE: N.T.S.



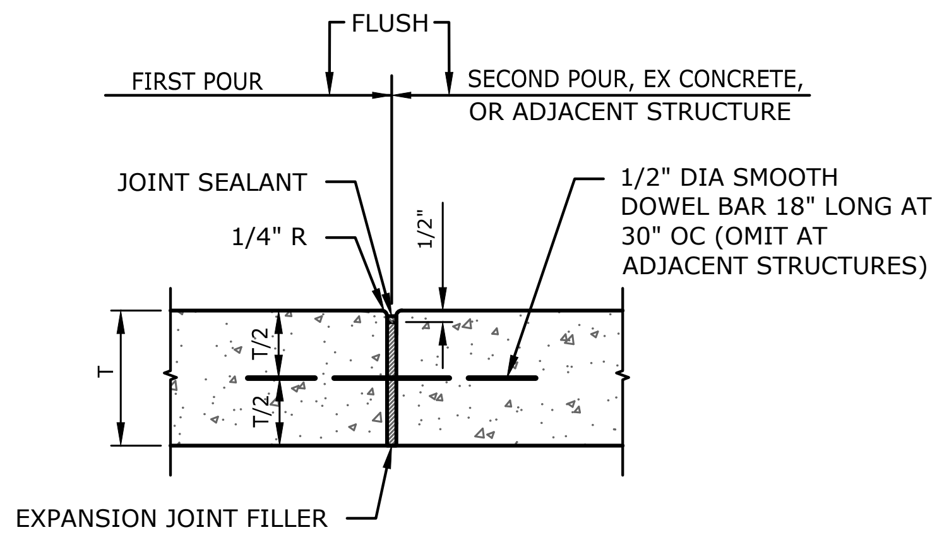
NOTES:

1. SEE SPECIFICATIONS FOR TYPE OF JOINT SEALANT.
2. CONSTRUCTION JOINTS SHALL ONLY BE LOCATED WHERE A CRACK CONTROL JOINT OR OTHER JOINT WOULD OTHERWISE HAVE BEEN REQUIRED.
3. SEE PLAN FOR THICKNESS, T.
4. FOR CRACK CONTROL JOINTS LOCATIONS, SEE ARCH. PLANS.
5. CRACK CONTROL JOINTS TO BE SPACED AT 5' MAX O.C. E.W.

CONSTRUCTION/CRACK CONTROL JOINT

C
-

SCALE: N.T.S.



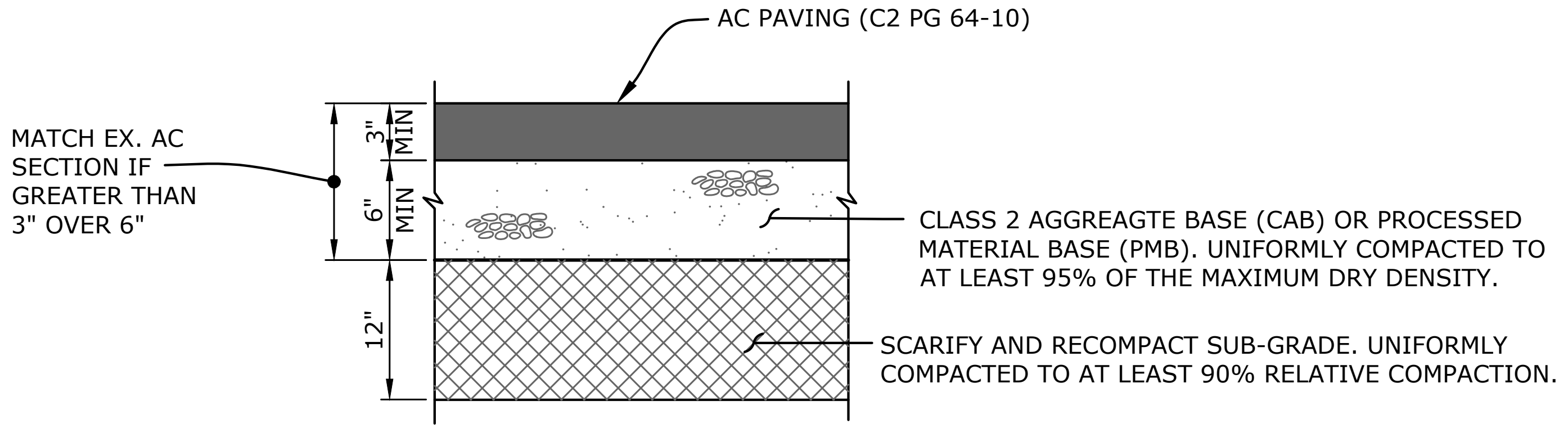
NOTES:

1. SEE SPECIFICATIONS FOR TYPE OF JOINT SEALANT & EXPANSION JOINT FILLER.
2. USE SMOOTH BARS FOR DOWELS COATED TO PREVENT BOND, GREASE ONE END PRIOR TO SECOND POUR.
3. SEE PLAN FOR THICKNESS, T.
4. PROVIDE ADEQUATE SUPPORT FOR DOWELS TO ENSURE THEY REMAIN LEVEL WITH FINISH SURFACE.
5. STOP SLAB REINFORCING AT EXPANSION JOINTS.

EXPANSION JOINT

D
-

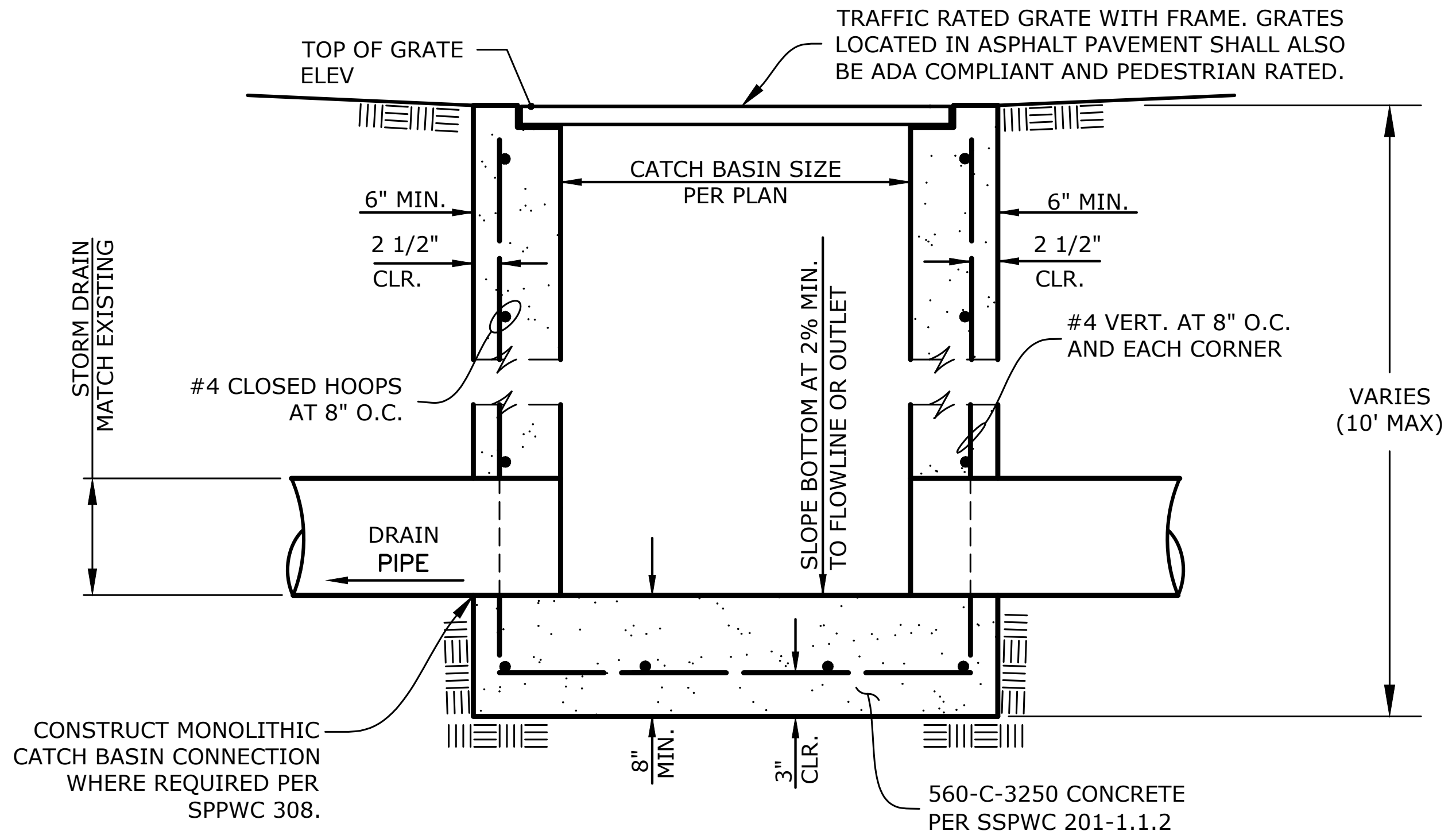
SCALE: N.T.S.



ASPHALT PAVEMENT SECTION

E
-

SCALE: N.T.S.

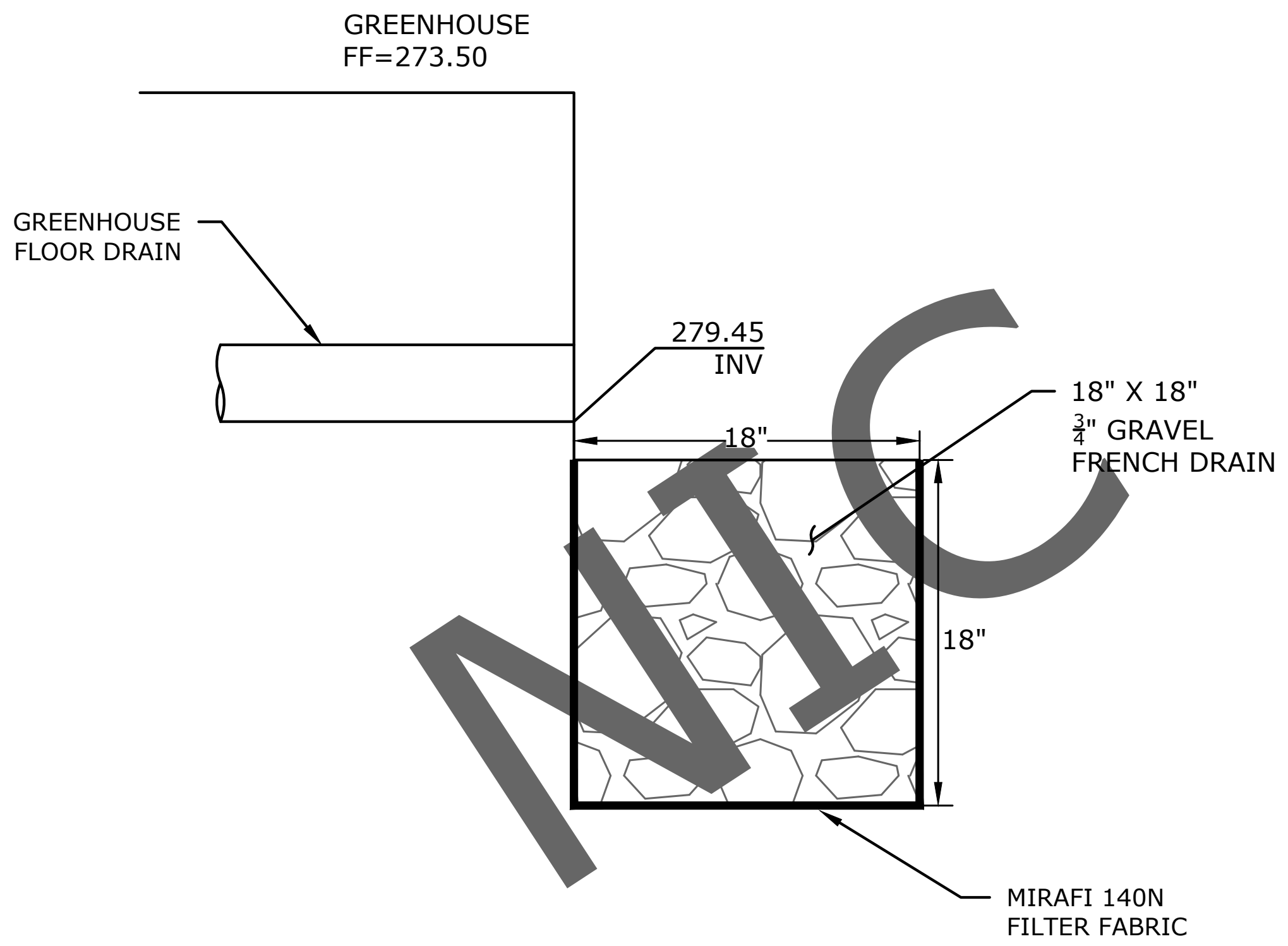


MATERIALS & METHODS PER SSPWC UNLESS OTHERWISE NOTED

CAST-IN-PLACE CATCH BASIN

F
-

SCALE: N.T.S.



FRENCH DRAIN

G
-

SCALE: N.T.S.

DRAWING: n:\projects\1017\engineering\acad\improvements\1017_ grading & paving plan.dwg

REVISIONS

MARK	DATE	DESCRIPTION	BY

REVIEWED BY:
DATE
DATE

GLEN H. PACE
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GLEN H. PACE
PROJECT ENGINEER
R.C.E. 61468
DATE: 02/21/2025

VENTURA COLLEGE ECT PATH OF
TRAVEL IMPROVEMENTS
DETAILS
VENTURA, CA

SCALE: HORIZ.________ VERT.________

WORK ORDER
DRAWN BY: RAR
CHECKED BY: GHP

SHEET NO. 6 OF 6

MECHANICAL & ADHESIVE ANCHORS

1. EPOXY ANCHORS AND DOWELS INSTALLED INTO CONCRETE:
    - A. "PURE110+" BY DeWALT (ESR#3298)
    - B. "SET-3G" BY SIMPSON STRONG TIE (ESR#4057)
    - C. "HIT-RE 500-V3" BY HILTI, INC. (ESR#3814)
2. EPOXY ANCHORS AND DOWELS INSTALLED INTO GROUT-FILLED MASONRY UNITS:
    - A. "AC100+GOLD" BY DeWALT (ESR# 3200)
    - B. "SET-XP" BY SIMPSON STRONG TIE (IAPMO#265)
    - C. HILTI HY-270 (ICC ESR-4143)
3. EXPANSION ANCHORS INSTALLED INTO CONCRETE:
    - A. "POWER-STUD+SD2" BY DeWALT (ESR#2502)
    - B. "STRONG BOLT2" BY SIMPSON STRONG-TIE (ESR#3037)
    - C. "KWIK BOLT TZ2" BY HILTI, INC. (ESR#4266)
5. EXPANSION ANCHORS INSTALLED INTO GROUT-FILLED MASONRY UNITS:
    - A. "STRONG BOLT 2" BY SIMPSON STRONG-TIE (IAPMO#240)
6. SCREW ANCHORS INSTALLED INTO CONCRETE:
    - A. SIMPSON TITEN HD (ICC ESR-2713)
    - B. HILTI KH-EZ (HUS) (ICC ESR-3027)
    - C. DEWALT SCREW-BOLT (ICC ESR-3889)
7. ADHESIVE ANCHORS: GRADE 36 THREADED ROD (F1554 GRADE 36, OR A36, OR A307-S1) WITH ASTM A 563 GRADE A NUTS AND ANSI B18.22.1 TYPE A WASHERS, UNLESS NOTED OTHERWISE.
8. ADHESIVE DOWELS: ASTM A615 (OR ASTM A706) GRADE 60 REINFORCING STEEL.
9. ALL ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ICC-ES REPORT AND MANUFACTURERS RECOMMENDATIONS.
10. UNLESS NOTED OTHERWISE, PROVIDE MINIMUM EMBEDMENT OF ANCHORS PER ICC-ES REPORT AND MANUFACTURERS RECOMMENDATIONS.
11. CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL OR ADHESIVE ANCHORS. AT CONTRACTOR OPTION, OVERSIZED HOLES AND WELDED PLATE WASHERS CAN BE USED IN LIEU OF STANDARD DIAMETER HOLES, 3"X3"X1/4" PLATE WASHER W/ 3/16" FILLET WELD ALL AORUND.
12. PRIOR TO ALL DRILLING OR CORING, THE CONTRACTOR SHALL (1) VERIFY THE EXISTING CONCRETE OR MASONRY THICKNESS TO PREVENT DAMAGE TO THE OPPOSITE FACE OF CONCRETE AND MAINTAIN 1-1/2" CLEAR COVER U.N.O., AND (2) IDENTIFY EXISTING REINFORCING LOCATIONS BY PACHHOMETER, PROBING, CHIPPING, ETC. TO AVOID DAMAGE EXISTING REINFORCING.
13. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED ABOVE, THE ENGINEER WILL DETERMINE A NEW LOCATION.
14. TEST ANCHORS NO SOONER THAN 24 HOURS AFTER INSTALLATION.
15. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE OR GROUT HAVING A MINIMUM AGE OF 21 DAYS AT THE TIME OF ANCHOR INSTALLATION.
16. FOR EXTERIOR AND FOR EXPOSED APPLICATIONS MECHANICAL ANCHORS SHALL BE STAINLESS STEEL.

REINFORCEMENT

1. ALL TYPICAL REINFORCING BARS SHALL CONFORM TO ASTM A-615, GRADE 60, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
    - A. SPIRALS SHALL BE COLD DRAWN BARS CONFORMING TO ASTM A-82. REINFORCING FOR DIAPHRAGMS AND FOUNDATIONS MAY BE GRADE 75 IN LIEU OF GRADE 60, AT THE CONTRACTOR'S OPTION. MAINTAIN OVERALL CAPACITY OF ELEMENTS WHERE GRADE 75 REINFORCING IS PROPOSED FOR USE. IN GENERAL, REDUCE REQUIRED STEEL AREA IN PROPORTION TO RATIO OF YIELD STRENGTH. MAINTAIN BAR SPACING SHOWN ON PLANS, DETAILS, AND SCHEDULES.
    - B. MOMENT FRAME LONGITUDINAL REBARS, SHEAR WALL VERTICAL REBARS, AND COUPLING BEAM LONGITUDINAL REBARS SHALL BE ASTM A-706 [Fy=60 KSI].
    - C. SMOOTH DOWELS IN SLAB ON GRADE: ASTM A36, 36 KSI
2. WELDING OF REINFORCEMENT (INCLUDING TACK WELDING) SHALL BE NOT BE DONE UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS. WHERE SHOWN ON THE DRAWINGS, THE FOLLOWING SHALL APPLY:
    - A. WELDED REBAR SHALL COMPLY WITH ASTM A-706 [Fy=60 KSI]
    - B. WELDING SHALL CONFORM TO AWS D1.4
    - C. WELDING OF REINFORCING STEEL SHALL BE PERFORMED BY WELDERS CERTIFIED BY THE COUNTY OF VENTURA BUILDING DEPARTMENT.
    - D. USE E90XX ELECTRODES
3. WELDED WIRE FABRIC SHALL BE MADE OF COLD DRAWN WIRE AND SHALL CONFORM TO ASTM A-185 [Fy=65 KSI]. MINIMUM LAP AT SPLICES OF 12 INCHES. PROVIDE MESH IN FLAT SHEETS ONLY. ROLLED MESH IS NOT ACCEPTABLE. OFFSET END-LAPS IN ADJACENT SHEETS TO PREVENT CONTINUOUS LAPS.
4. REINFORCING STEEL SHALL HAVE THE FOLLOWING CONCRETE COVER. SEE ACI FOR TOLERANCES:

A. CONCRETE POURED AGAINST EARTH	3"
B. FORMED CONCRETE IN CONTACT WITH EARTH	2"
C. CONCRETE EXPOSED TO WEATHER (#6 AND LARGER)	2"
D. CONCRETE EXPOSED TO WEATHER (#5 AND SMALLER)	1-1/2"
E. SLABS (INCLUDING SLAB SUPPORTING EARTH), WALLS, AND JOISTS NOT EXPOSED TO WEATHER (#11 AND SMALLER)	1"
F. OTHER CONCRETE NOT EXPOSED TO WEATHER	1-1/2"

5. #5 AND LARGER REINFORCING BARS SHALL NOT BE SPLICED EXCEPT AS LOCATED AND DETAILED ON THE DRAWINGS. #4 AND SMALLER BARS WITH LENGTHS NOT SHOWN SHALL BE CONTINUOUS. PROVIDE CLASS 'B' SPLICE UNLESS NOTED OTHERWISE. ALL BARS IN MASONRY SHALL BE CONTINUOUS, LAPPING 48 BAR DIAMETERS, 2'-0" MINIMUM. HORIZONTAL WALL SPLICES SHALL BE STAGGERED. VERTICAL BARS SHALL NOT BE SPLICED EXCEPT AT HORIZONTAL SUPPORTS, SUCH AS FLOOR OR ROOF, UNLESS DETAILED OTHERWISE. ALL BARS ENDING AT THE FACE OF A WALL, COLUMN, OR BEAM SHALL EXTEND TO WITHIN 2" OF THE FAR FACE AND HAVE A 90 DEGREE HOOK, UNLESS OTHERWISE SHOWN.
6. BARS SHALL BE FIRMLY SUPPORTED AND ACCURATELY PLACED AS REQUIRED BY THE ACI STANDARDS, USING TIE AND SUPPORT BARS IN ADDITION TO REINFORCEMENT SHOWN WHERE NECESSARY FOR FIRM AND ACCURATE PLACING. PROVIDE DOWELS TO MATCH ALL REINFORCEMENT AT POUR JOINTS, UNLESS SHOWN OR NOTED OTHERWISE. ALL DOWELS AND BOLTS SHALL BE ACCURATELY SET IN PLACE BEFORE PLACING CONCRETE. NO WELDING OF REINFORCEMENT (INCLUDING TACK WELDING) SHALL BE DONE UNLESS SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER. ALL SLAB AND BEAM REINFORCEMENT SHALL BE CHAIRED UP.
7. IN WALL REINFORCING, CURTAINS CONTAINING VERTICAL AND HORIZONTAL BARS OF THE SAME SIZE, VERTICAL BARS SHALL BE PLACED CLOSEST TO THE WALL SURFACE. IN CURTAINS WHICH VERTICAL AND HORIZONTAL BARS ARE OF DIFFERENT SIZES OR SPACING, THE LAYER WITH THE MOST STEEL SHALL BE PLACED CLOSEST TO THE NEAR SURFACE.
8. DRAWINGS SHOW TYPICAL REINFORCING CONDITIONS. CONTRACTOR SHALL PREPARE DETAILED PLACEMENT DRAWINGS OF ALL CONDITIONS SHOWING QUANTITY, SPACING, SIZES, CLEARANCES, LAPS, INTERSECTIONS, AND COVERAGE REQUIRED BY THE STRUCTURAL DETAILS, APPLICABLE CODE, AND TRADE STANDARDS. CONTRACTOR SHALL NOTIFY REINFORCING INSPECTOR OF ANY ADJUSTMENTS FROM TYPICAL CONDITIONS WHICH ARE PROPOSED IN PLACEMENT DRAWINGS TO FACILITATE FIELD PLACEMENT OF REINFORCING STEEL AND CONCRETE.
9. ALL PRINCIPAL REBAR SHALL TERMINATE WITH A STANDARD HOOK MINIMUM UNLESS SPECIFICALLY DETAILED OTHERWISE. REBAR BENDS SHALL BE MADE COLD. REBAR SHALL NOT BE BENT AFTER ANY PORTION OF THE BAR IS ENCASED IN CONCRETE.
10. ALL LAP SPLICES ARE CLASS 'B' LAP SPLICES UNLESS NOTED OTHERWISE.
11. ALL WALL FOOTING REINFORCEMENT SHALL BEND AROUND ALL CORNERS AND EXTEND 36 BAR DIAMETERS OR 18 INCHES WHICHEVER IS LARGER. UNLESS NOTED OTHERWISE.
12. ALL SLABS ON GRADE LESS THAN 6" IN THICKNESS SHALL BE REINFORCED WITH #4 REBARS AT 16 INCHES ON CENTERS EACH WAY, UNLESS NOTED OTHERWISE. PROVIDE ONE (1) LAYER OF 6X6/W2.9XW2.9 WELDED WIRE FABRIC CONTINUOUS FOR EVERY 3" ARCHITECTURAL CONCRETE FILLS ABOVE THE STRUCTURAL SLAB.
13. ALL MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT PADS LESS THAN 4" THICK SHALL BE REINFORCED WITH AT LEAST ONE (1) LAYER OF 6X6/W2.9XW2.9 WELDED WIRE FABRIC AND HAVE HOOKED DOWELS (#3 AT 12' ON CENTERS) INTO THE STRUCTURAL SLAB. UNLESS NOTED OTHERWISE. FOR PADS GREATER THAN 4 INCHES THICK, USE REINFORCING AS SHOWN IN THE TYPICAL DETAILS.
14. ADDITIONAL REINFORCEMENT SHALL BE PROVIDED AROUND ALL SLAB AND WALL OPENINGS INCLUDING DIAGONAL BARS WITHOUT EXCEPTION.
15. ALL STRUCTURAL CONCRETE ELEMENTS REQUIRE REINFORCEMENT SINCE NO PLAIN CONCRETE ELEMENTS ARE USED. ALL CONCRETE SLABS SHALL HAVE A MINIMUM REINFORCEMENT PERCENTAGE OF 0.0018 EACH WAY CONTINUOUS.

GENERAL STRUCTURAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS AT THE JOB SITE PRIOR TO STARTING CONSTRUCTION AND THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.
2. ALL PHASES OF WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE LATEST ADOPTED CODE AND ALL RELEASED ADDENDUM.
3. THE CONTRACT CONSTRUCTION DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE NOTED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMEN, AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT LIMITED TO: BRACING, ALL SHORING, FORMS, AND SCAFFOLDING.
4. OPENINGS, POCKETS, ETC. SHALL NOT BE PLACED IN SLABS BEAMS, COLUMNS, WALLS, ETC., UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS.
5. ALL ASTM SPECIFICATIONS NOTED ON THESE DRAWINGS SHALL BE OF THE LATEST REVISION.
6. IN THE EVENT THAT CERTAIN FEATURES OF CONSTRUCTION ARE NOT FULLY SHOWN ON THE DRAWINGS OR CALLED FOR IN THE NOTES OR SPECIFICATIONS. NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY & WAIT FOR INSTRUCTIONS.
7. COST OF ADDITIONAL DESIGN WORK NECESSITATED BY SELECTION OF AN OPTION OR DUE TO ERRORS OR OMISSIONS IN CONSTRUCTION, SHALL BE BORN BY THE CONTRACTOR.
8. THE CONTRACTOR ACKNOWLEDGES AND UNDERSTANDS THAT THE CONTRACT DOCUMENTS MAY REPRESENT IMPERFECT DATA AND MAY CONTAIN ERRORS, OMISSIONS, CONFLICTS, INCONSISTENCIES, CODE VIOLATIONS AND IMPROPER USE OF MATERIALS. SUCH DEFICIENCIES WILL BE CORRECTED WHEN IDENTIFIED. THE CONTRACTOR AGREES TO CAREFULLY STUDY AND COMPARE THE INDIVIDUAL CONTRACT DOCUMENTS AND REPORT AT ONCE IN WRITING TO THE OWNER ANY DEFICIENCIES THE CONTRACTOR MAY DISCOVER. THE CONTRACTOR FURTHER AGREES TO REQUIRE EACH SUBCONTRACTOR TO LIKEWISE STUDY THE DOCUMENTS AND TO REPORT AT ONCE ANY DEFICIENCIES DISCOVERED. THE CONTRACTOR SHALL RESOLVE ALL REPORTED DEFICIENCIES WITH CONSULTANT PRIOR TO AWARDING ANY SUBCONTRACTS OR STARTING ANY WORK WITH THE CONTRACTOR'S OWN EMPLOYEES. IF THE CONTRACTOR WITHOUT ADDITIONAL TIME OR ADDITIONAL EXPENSE CANNOT RESOLVE ANY DEFICIENCIES, THE CONTRACTOR SHALL SO INFORM THE OWNER IN WRITING. ANY WORK PERFORMED PRIOR TO RECEIPT OF INSTRUCTIONS FROM THE OWNER WILL BE DONE AT THE CONTRACTOR'S RISK.
9. OPTIONS, IF PROVIDED HEREIN, ARE FOR CONTRACTOR'S CONVENIENCE. HE SHALL BE RESPONSIBLE FOR ALL CHANGES NECESSARY, SHALL COORDINATE ALL DETAILS, AND SHALL OBTAIN ALL REQUIRED APPROVALS.
10. ALL WORK SHALL CONFORM TO THE 2022 CALIFORNIA BUILDING CODE (2022 CBC).

SCOPE:

FOUNDATION FOR PRE-FABRICATED GREENHOUSE BY MANUFACTURER

DESIGN LOADS

DESIGN IS BASED ON 2022 CALIFORNIA BUILDING CODE.

SEISMIC FACTORS:
Ss = 1.992   S1 = 0.749
SITE CLASS D
Fa = 1.0
SDS = 1.594
SEISMIC DESIGN CATEGORY D
OCCUPANCY CATEGORY II

WIND: 95 MPH
EXPOSURE C

CONCRETE

1. CONCRETE IS REINFORCED AND CAST-IN-PLACE UNLESS OTHERWISE NOTED. WHERE REINFORCING IS NOT SPECIFICALLY SHOWN OR WHERE DETAILS ARE NOT GIVEN, PROVIDE REINFORCING SIMILAR TO THAT SHOWN FOR SIMILAR CONDITIONS, SUBJECT TO REVIEW BY THE OWNER'S REPRESENTATIVE.
2. ALL STRUCTURAL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS AND A MAX WATER CEMENT RATIO W/C AS FOLLOWS:
    - A. ALL CONCRETE U.N.O.: 3,000 PSI NORMAL WEIGHT, W/C = 0.5
3. ALL STRUCTURAL CONCRETE MIXES SHALL DESIGNED BY AN APPROVED LABORATORY AND SHALL BE STAMPED AND SIGNED BY A CIVIL ENGINEER LICENSED IN CALIFORNIA.
4. CONCRETE MIXES SHALL BE PREPARED WITH TYPE II/V PORTLAND CEMENT CONFORMING TO ASTM C150. CONCRETE MIX DESIGNS CONTAINING FLY ASH MAY BE USED WHERE CONCRETE IS NOT VISUALLY EXPOSED. FLY ASH SHALL CONFORM WITH ASTM C618 AND MAY REPLACE UP TO 20% PORTLAND CEMENT BY VOLUME.
5. NORMAL WEIGHT CONCRETE AGGREGATES SHALL CONFORM TO ASTM C33. LIGHT WEIGHT CONCRETE AGGREGATES SHALL CONFORM TO ASTM C330.
6. NO MORE THAN ONE GRADE OF CONCRETE SHALL BE ON THE JOB SITE AT ANY ONE TIME.
7. THOROUGHLY CLEAN AND ROUGHEN ALL HARDENED CONCRETE AND MASONRY SURFACES TO RECEIVE NEW CONCRETE. INTERFACE SHALL BE ROUGHENED TO A FULL AMPLITUDE OF 1/4" UNLESS NOTED OTHERWISE.
8. KEY AND DOWEL POUR JOINTS AS SHOWN ON THE PLANS. ANY DEVIATION FROM POUR JOINTS SHOWN ON THE PLANS MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE.
9. NON-SHRINK CEMENT GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 7000 PSI. USE "QUIKRETE" (LARR #25451) OR "RAPID SET" (LARR #24654).
10. DEFECTIVE CONCRETE (VOIDS, ROCK POCKETS, HONEYCOMBS, CRACKING, ETC.) SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE OWNER'S REPRESENTATIVE.

VENTURA COUNTY COMMUNITY COLLEGE DISTRICT
761 EAST DAILY DRIVE
CAMARILLO, CALIFORNIA 93010
TEL: (805) 652-5500

PROJECT TITLE AND SCHOOL LOCATION

VENTURA COLLEGE
GREENHOUSE
4667 TELEGRAPH RD.
VENTURA, CA 93003

COMMISSIONED ARCHITECT

CONSULTANT

Orion Structural

Orion Structural Group, Inc.
223 East Thousand Oaks Boulevard, Suite 304
Thousand Oaks, California 91360 - 7734
Phone: 805.390.9242 Fax: 805.494.0418 O.S.G. #24738

STAMPS/SEALS

Will Lambert
WILL A. LAMBERT
No. 5430
Exp. 06/30/2026
09/18/2024

△
△

SHEET TITLE:

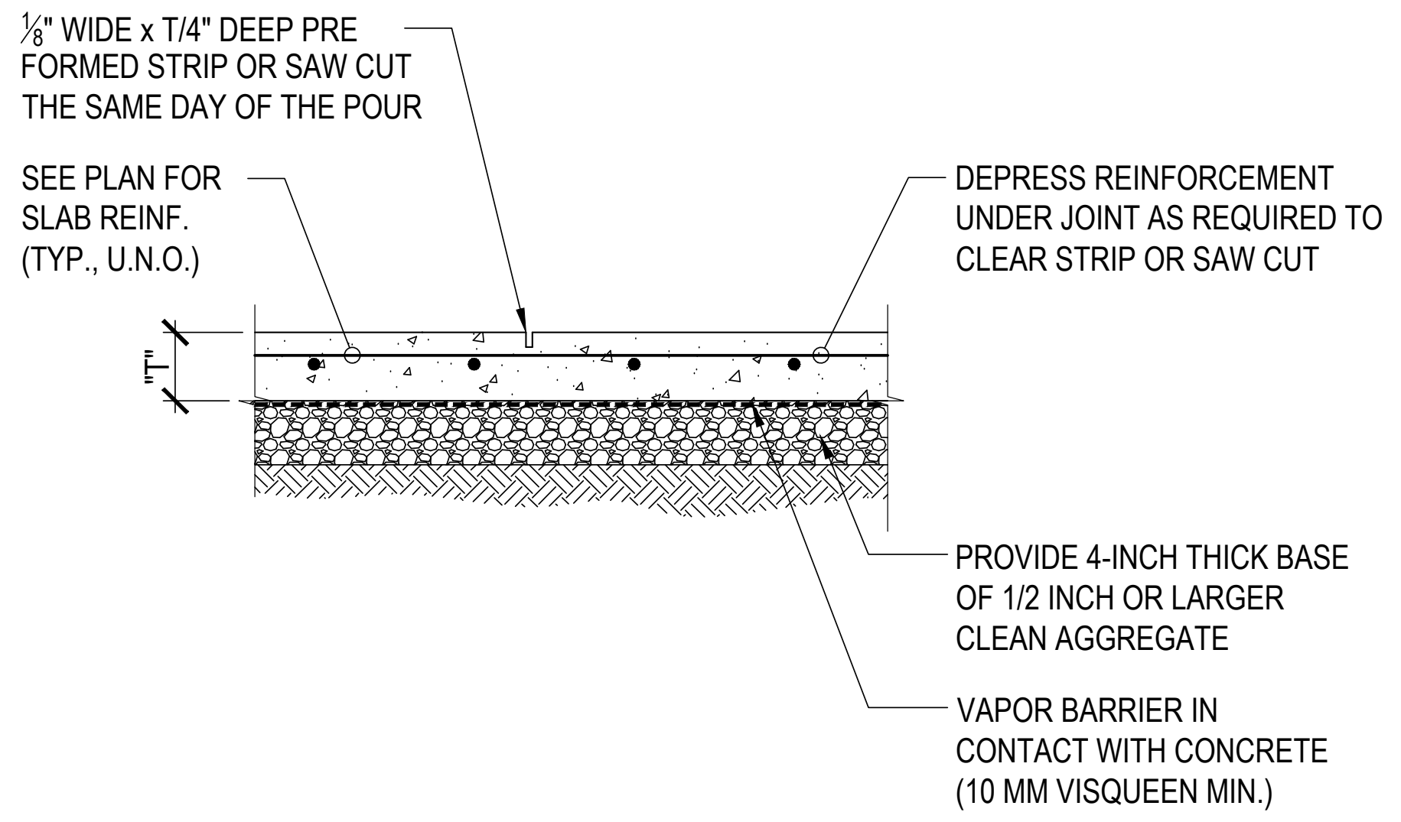
GENERAL NOTES

PROJECT NO.: 24-VCCCD-018	PROJECT ARCH: WJA
DRAWN: MG	CHECKED: WL

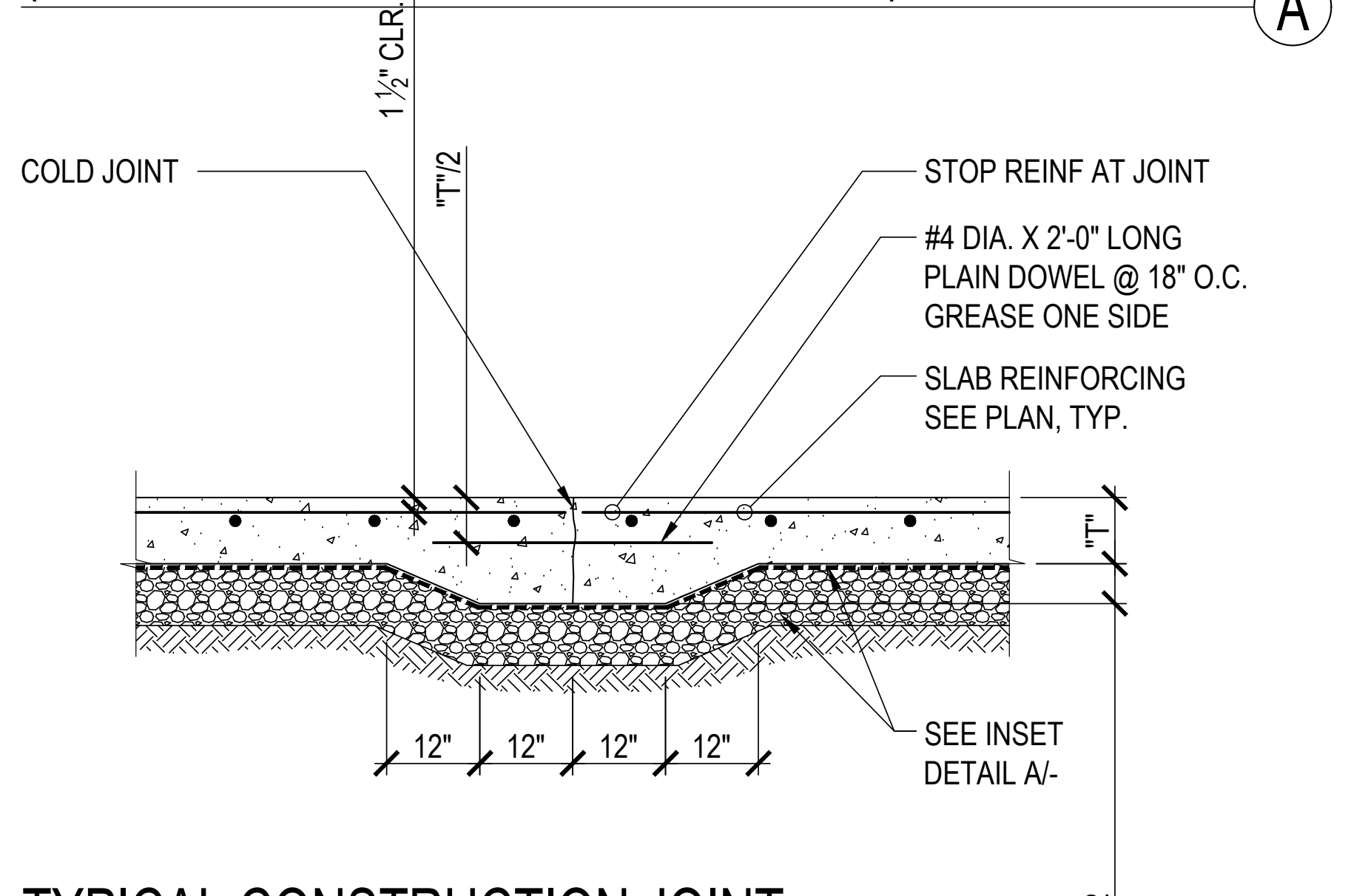
SHEET NUMBER:

S001

DATE: 09/17/2024	SHEET: ____ OF ____



CONTROL JOINT
(WHERE CONTINOUS POUR IS USED) (A)



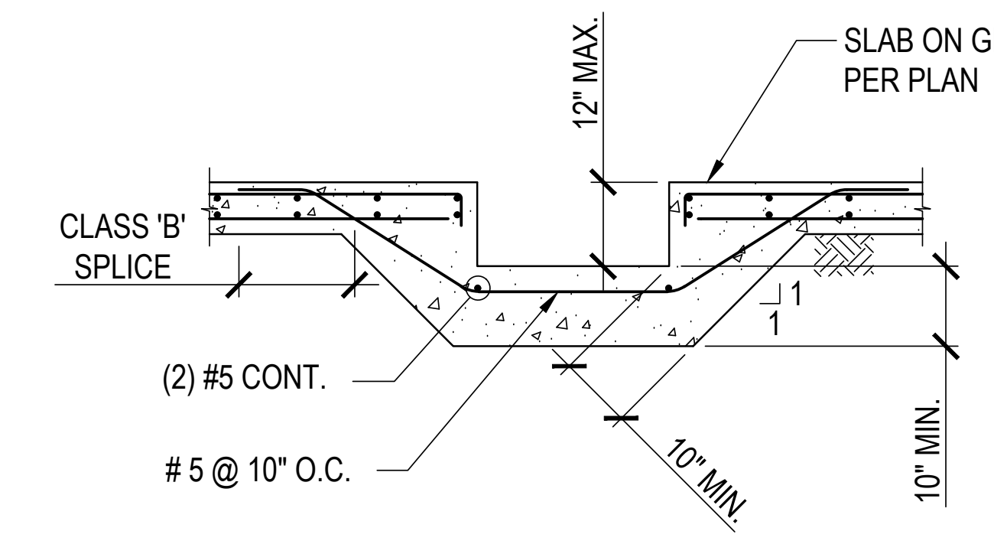
TYPICAL CONSTRUCTION JOINT (B)

NOTE:

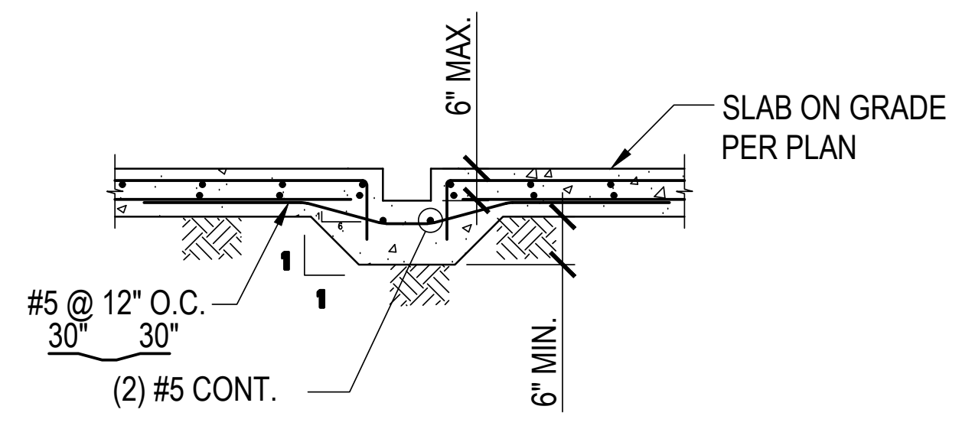
1. CONTROL JOINTS TO BE LOCATED AT COLUMN CENTER LINES AND AT 12'-6" O.C. MAX.
2. IF SAW-CUT CONTROL JOINT TO BE USED, SAW-CUT WITHIN 24 HOURS OF POUR.
3. SEE PLAN FOR "T".

JOINTS AT SLAB ON GRADE

SCALE: 1" = 1'-0" 10



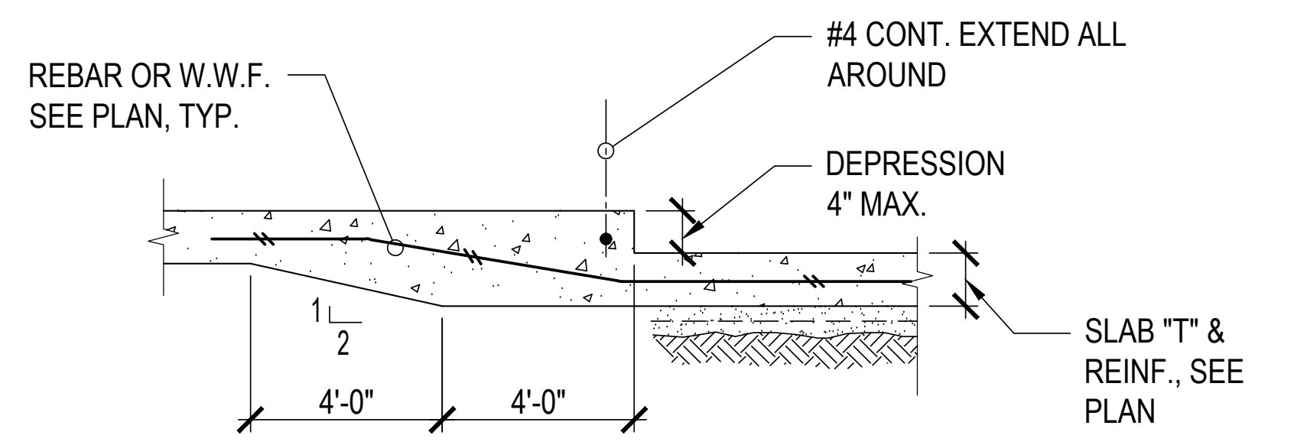
DETAIL (A)

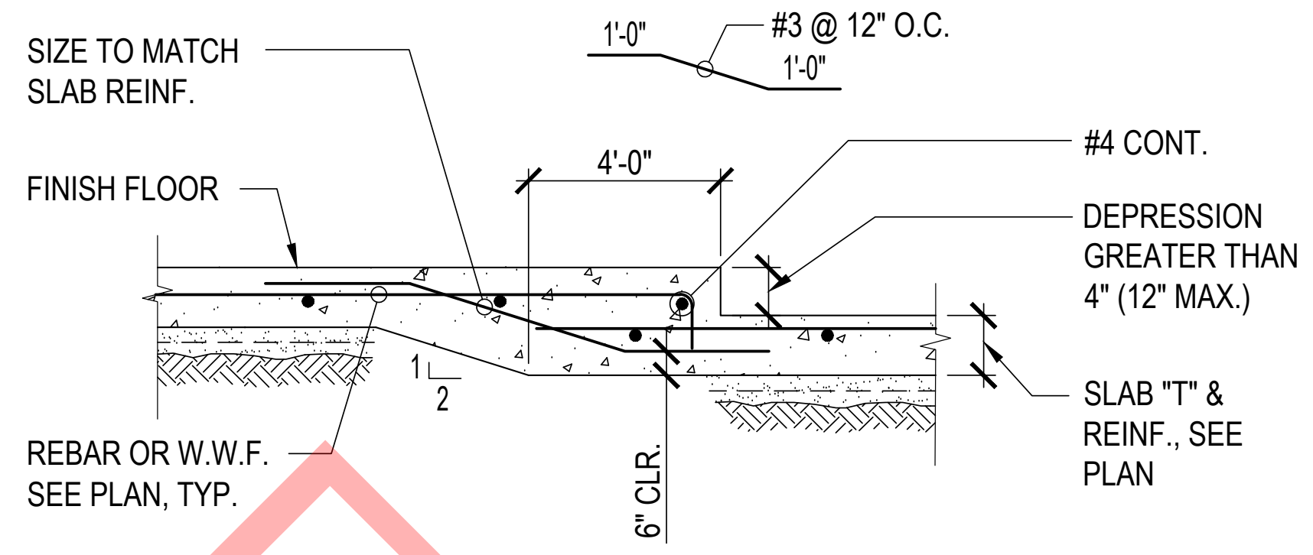


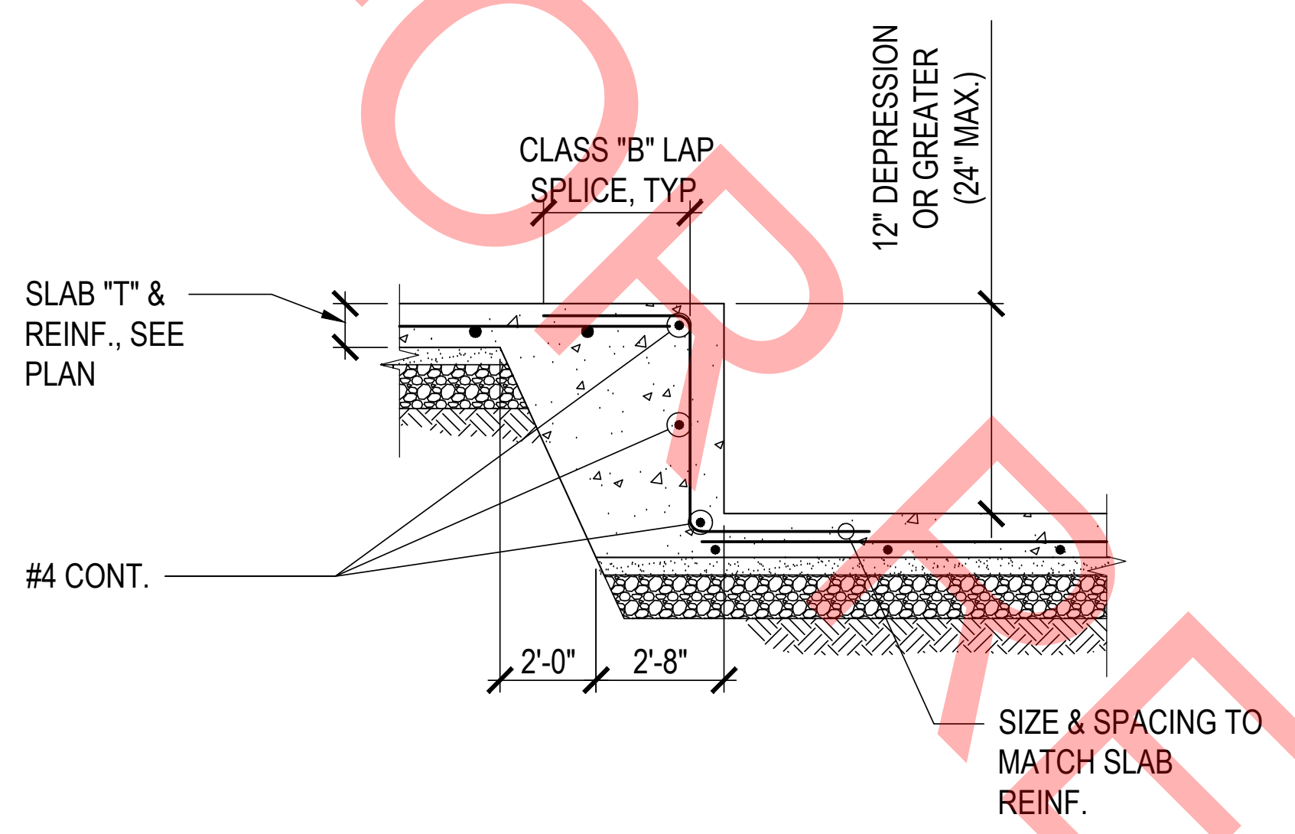
DETAIL (B)

TYPICAL TRENCH DRAIN DETAIL

SCALE: 1" = 1'-0" 12

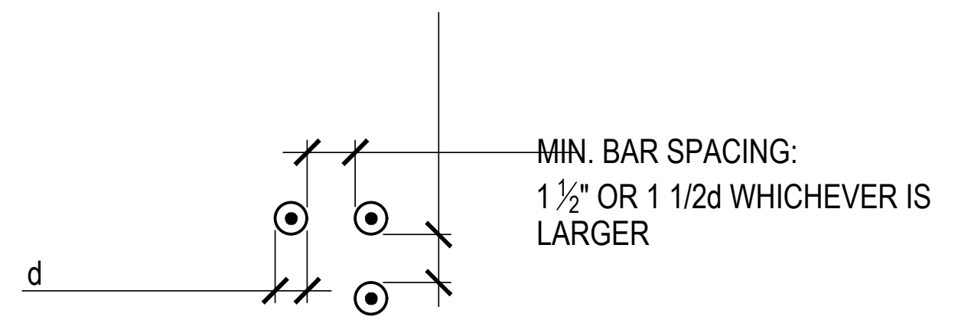




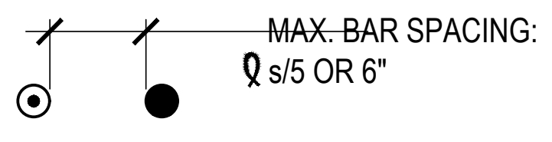


SLAB ON GRADE DEPRESSION

SCALE: 1" = 1'-0" 7



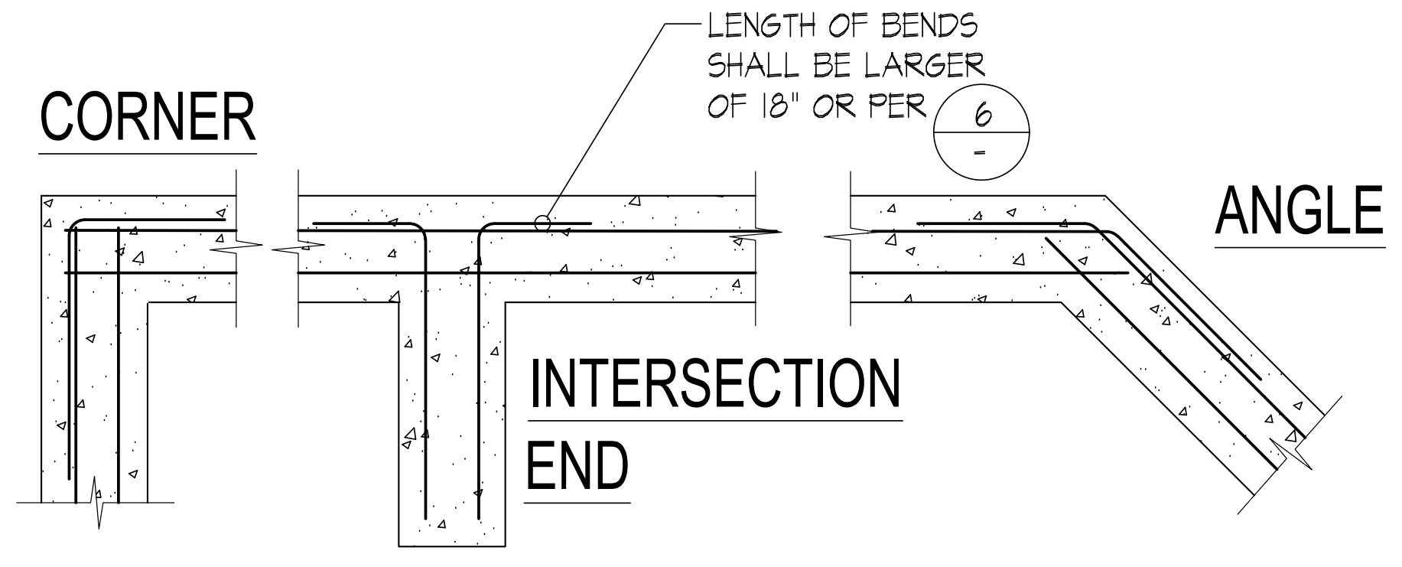
BAR SPACING FOR NON-SPLICED BARS (A)



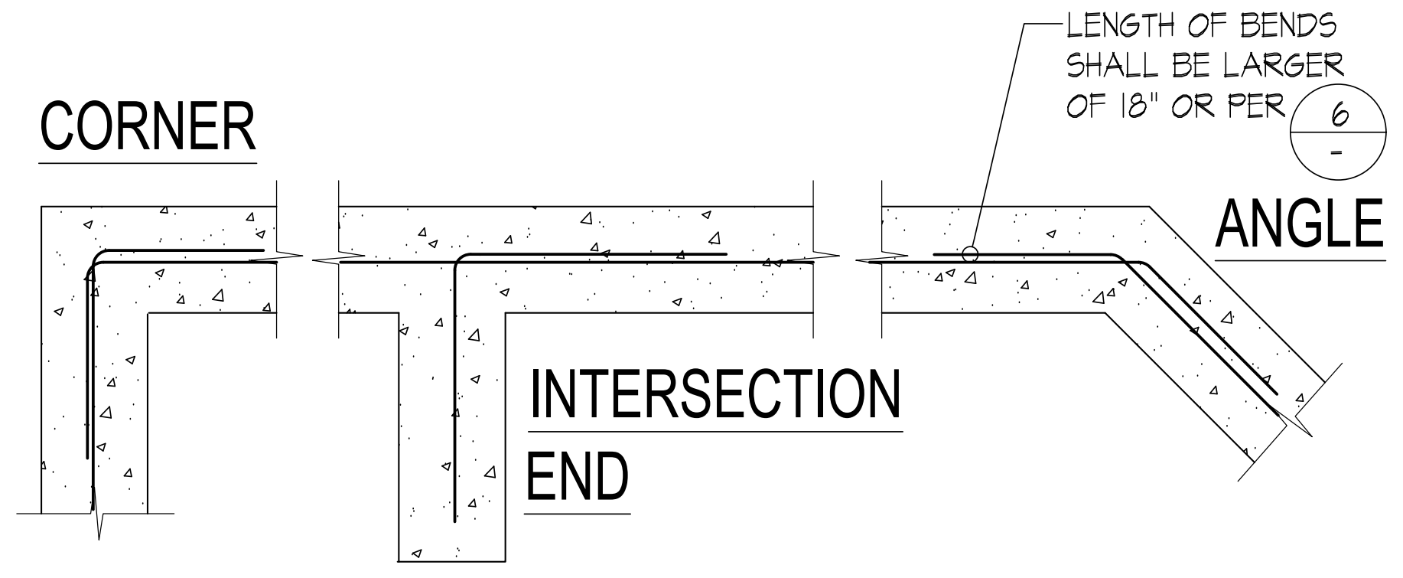
BAR SPACING FOR BARS
SPLICED W/ NON-CONTACT LAP (B)

BAR SPACING

SCALE: 1" = 1'-0" 8



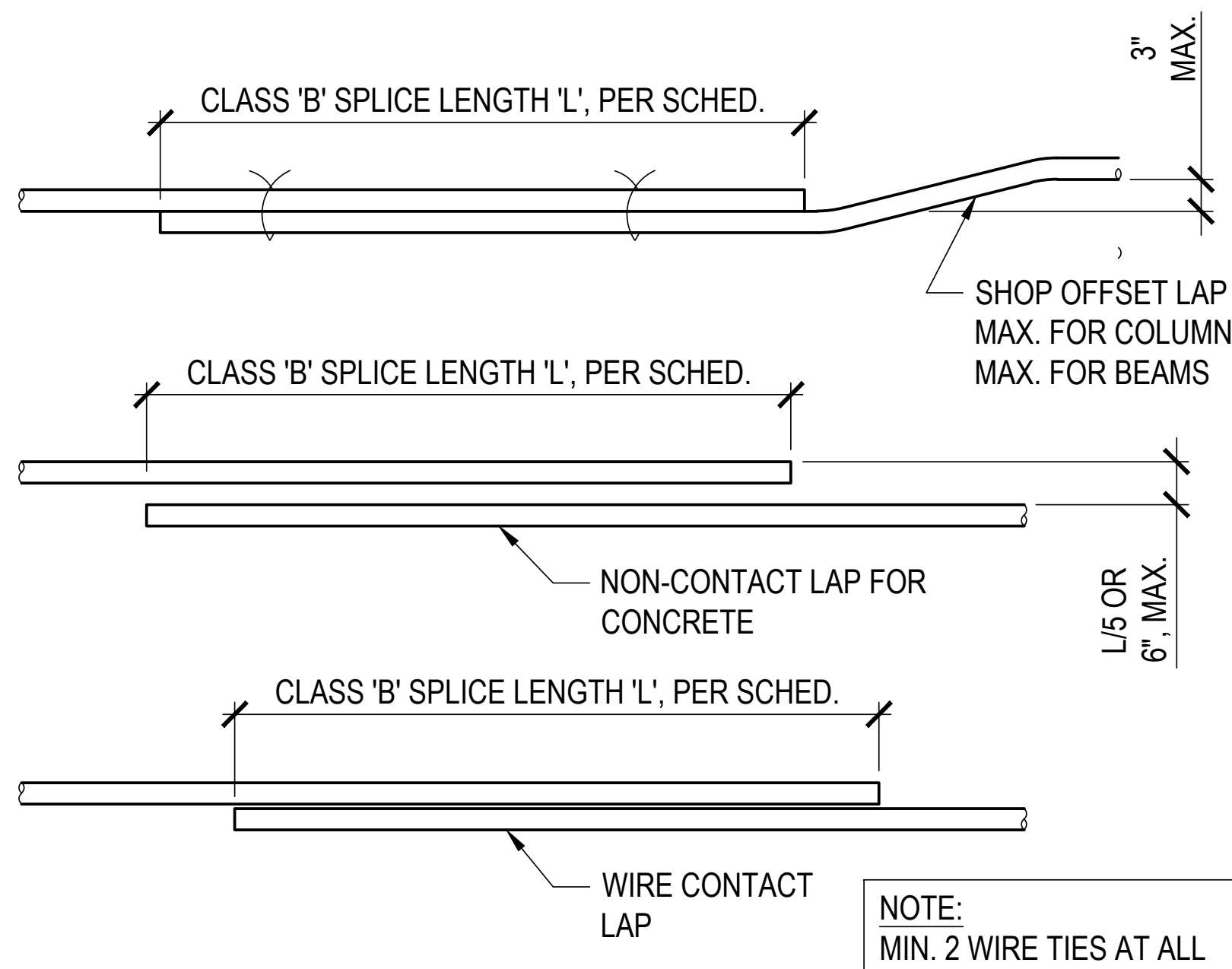
DOUBLE CURTAIN



SINGLE CURTAIN

REBAR AT INTERSECTION

SCALE: 1" = 1'-0" 9

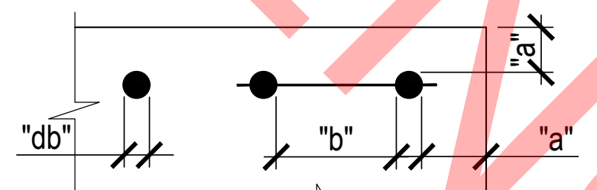


NOTE:
MIN. 2 WIRE TIES AT ALL SPLICES PROJECTING FROM FOOTING, TYP.

NOTES:

1. TOP BARS ARE HORIZONTAL REINFORCING WITH MORE THAN 12" OF CONCRETE BELOW BARS.
2. BOTTOM BARS INCLUDE ALL VERTICALS, ALL HORIZONTAL WALL REINFORCING, AND HORIZONTAL REINFORCING WITH LESS THAN 12" OF CONCRETE BELOW BARS.
3. A. USE CLASS B SPLICES U.N.O., ADJACENT BAR SPLICES SHALL BE STAGGERED THE GREATER OF THE LENGTH OF SPLICE OR 2'-0".
   B. USE CLASS C SPLICES WHERE NOTED.
   C. USE CLASS C SPLICES WHERE MORE THAN 49% OF BARS ARE TO BE SPLICED IN ONE LOCATION.
4. SMALLER BAR LAP LENGTH SHALL BE USED WHEN SPLICING DIFFERENT SIZE BARS.
5. INCREASE SPLICE LENGTH BY 33% FOR LIGHTWEIGHT CONCRETE.

	TENSION LAP SPLICE LENGTH (CLASS B)						DEVELOPMENT LENGTH (Ld) (CLASS A)					
	3000 PSI CONC f'c		4000 PSI CONC f'c		5000 PSI CONC f'c		3000 PSI CONC f'c		4000 PSI CONC f'c		5000 PSI CONC f'c	
BAR SIZE	TOP	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER
#3	29	22	28	20	28	20	23	17	21	15	21	15
#4	39	29	34	25	30	23	30	22	26	19	23	17
#5	48	36	42	31	38	28	37	28	32	24	29	22
#6	58	43	50	37	45	34	45	33	39	29	35	26
#7	81	63	71	54	63	49	63	48	54	42	49	38
#8	93	72	81	62	72	56	72	55	62	48	56	43
#9	105	81	91	70	81	63	81	62	70	54	63	48
#10	118	91	102	79	92	70	91	70	79	61	70	54
#11	131	101	113	87	102	78	101	78	87	67	78	60



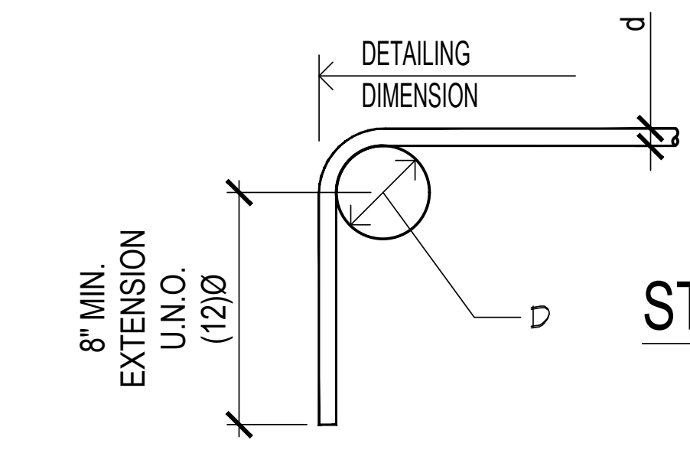
WHERE:
"a" IS THE CLEAR COVER "b" IS THE CLEAR SPACING "db" IS THE BAR DIA

NOTES:

1. MINIMUM SPLICE LENGTH FOR BARS WITH CLASS 'B' SPLICE PER ACI-318-14, SECTION 25.5.
2. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" CONCRETE CAST IN THE MEMBER BELOW THE REINFORCEMENT.
3. THESE BAR DEVELOPMENT LENGTH APPLY TO REGULAR OR NORMAL WEIGHT CONCRETE, MULTIPLY THE SPECIFIED DEVELOPMENT LENGTH BY 1.33 FOR LIGHT WEIGHT CONCRETE.
4. ALL DETAILING OF REINFORCEMENT SHALL COMPLY WITH THESE SCHEDULES UNLESS SPECIFICALLY DETAILED ON THE DRAWINGS.

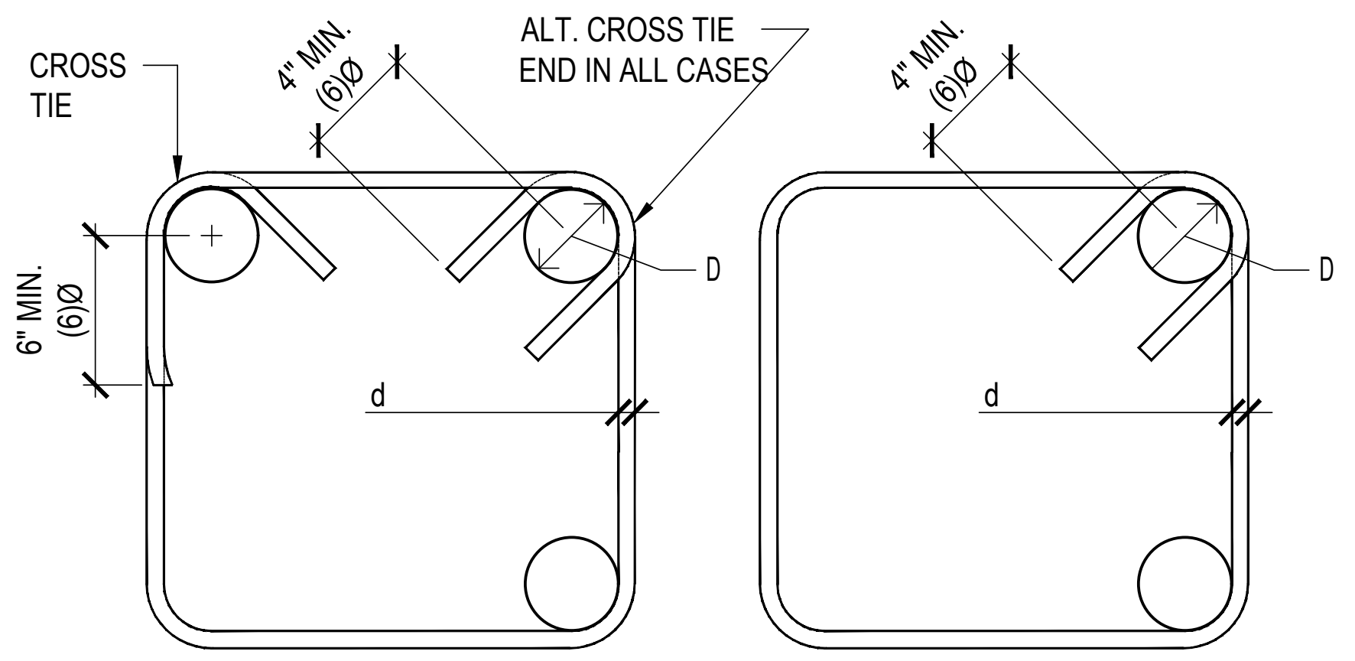
TYP. CONC. REINF. DEVEL. LENGTH / LAP SPLICE SCHED.

SCL: 1" = 1'-0" 6



D = 4d FOR #3 THRU #5
D = 6d FOR #6 THRU. #8 BARS
D = 8d FOR #9 THRU #11 BARS
D = 10d FOR #14 AND #18 BARS

STANDARD HOOK DETAILS

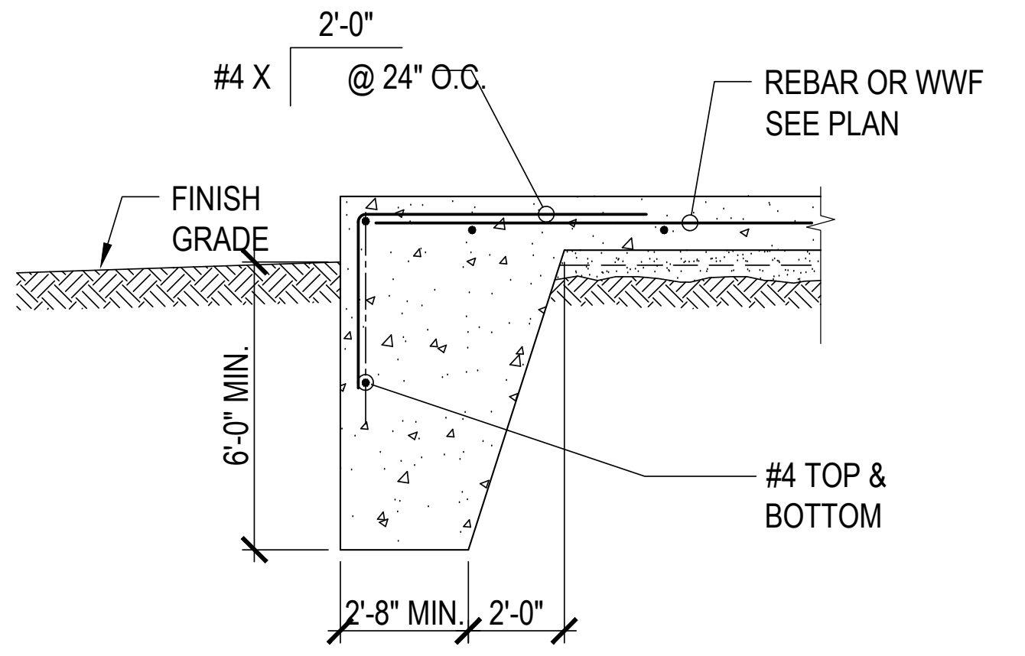


SPANDREL & BEAM SUPPLEMENTARY TIE

COLUMN & SPANDREL TIE

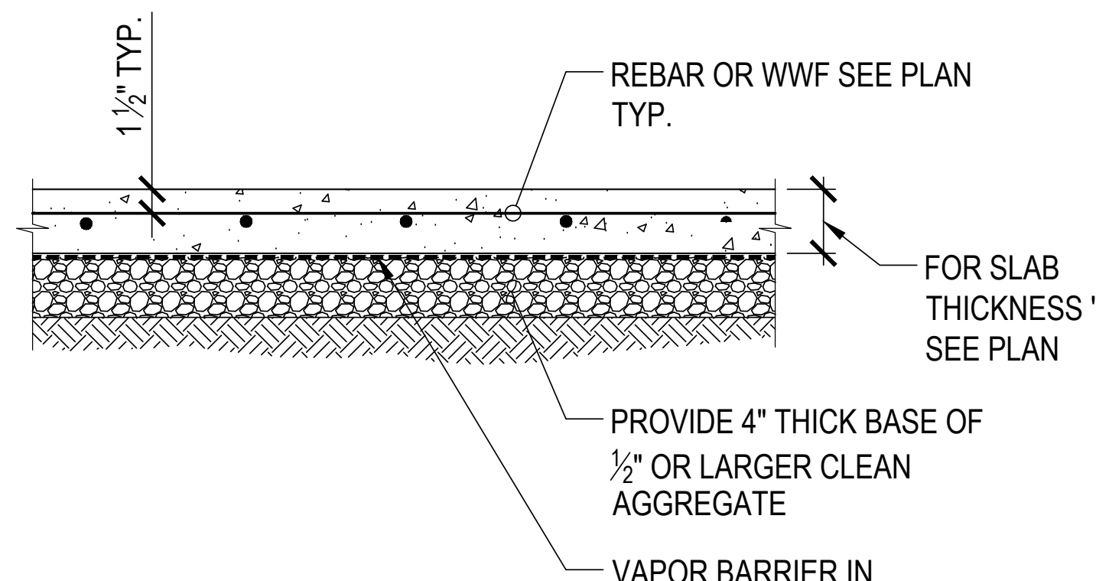
TYP. CONC. REINF. STANDARD HOOK DETAIL

SCALE: 1" = 1'-0" 1



IF APPLICABLE, SEE SOILS REPORT FOR ADDITIONAL SUBGRADE PREPARATION

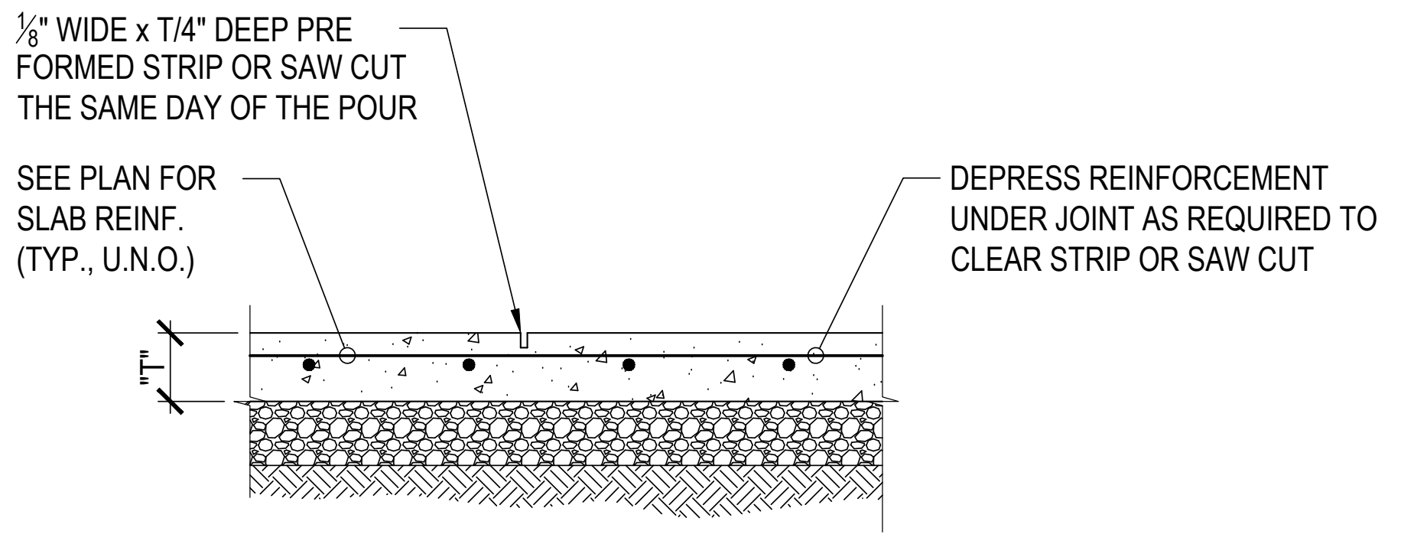
S.O.G. EDGE



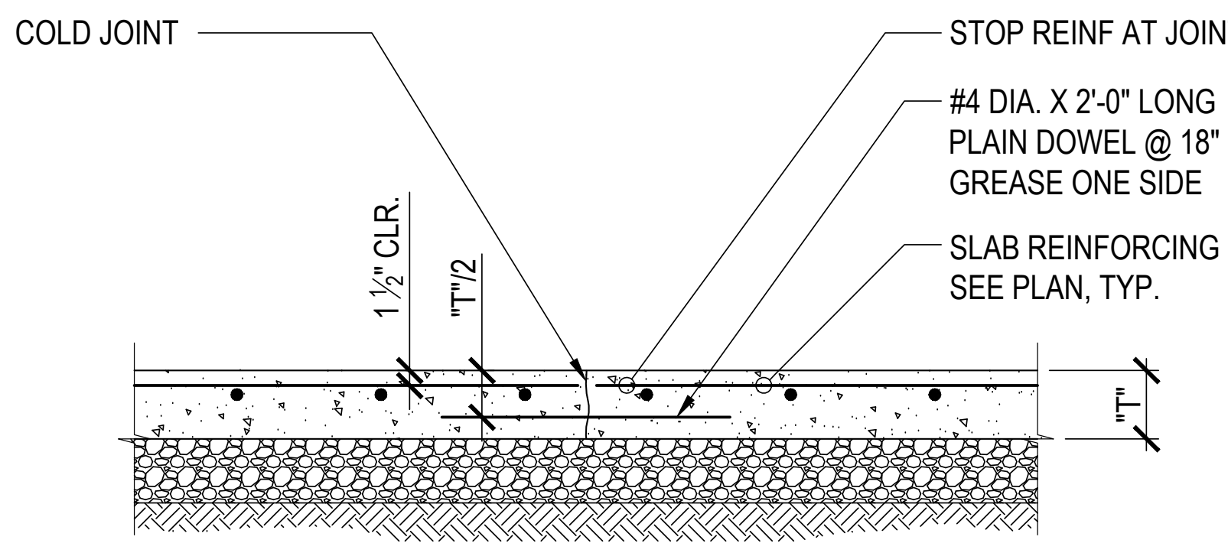
TYP. S.O.G.

TYPICAL SLAB ON GRADE

2



CONTROL JOINT
(WHERE CONTINOUS POUR IS USED) (A)



TYPICAL CONSTRUCTION JOINT (B)

NOTE:

1. IF SAW-CUT CONTROL JOINT TO BE USED, SAW-CUT WITHIN 24 HOURS OF POUR.
2. SEE PLAN FOR "T".

JOINTS AT SLAB ON GRADE

3

VENTURA COUNTY COMMUNITY COLLEGE DISTRICT
761 EAST DAILY DRIVE
CAMARILLO, CALIFORNIA 93010
TEL: (805) 652-5500

PROJECT TITLE AND SCHOOL LOCATION

VENTURA COLLEGE
GREENHOUSE
4667 TELEGRAPH RD.
VENTURA, CA 93003

COMMISSIONED ARCHITECT

CONSULTANT

Orion Structural
Orion Structural Group, Inc.
223 East Thousand Oaks Boulevard, Suite 304
Thousand Oaks, California 91360 - 7734
Phone: 805.390.9242 Fax: 805.494.0418 O.S.G. #24738

STAMPS/SEALS

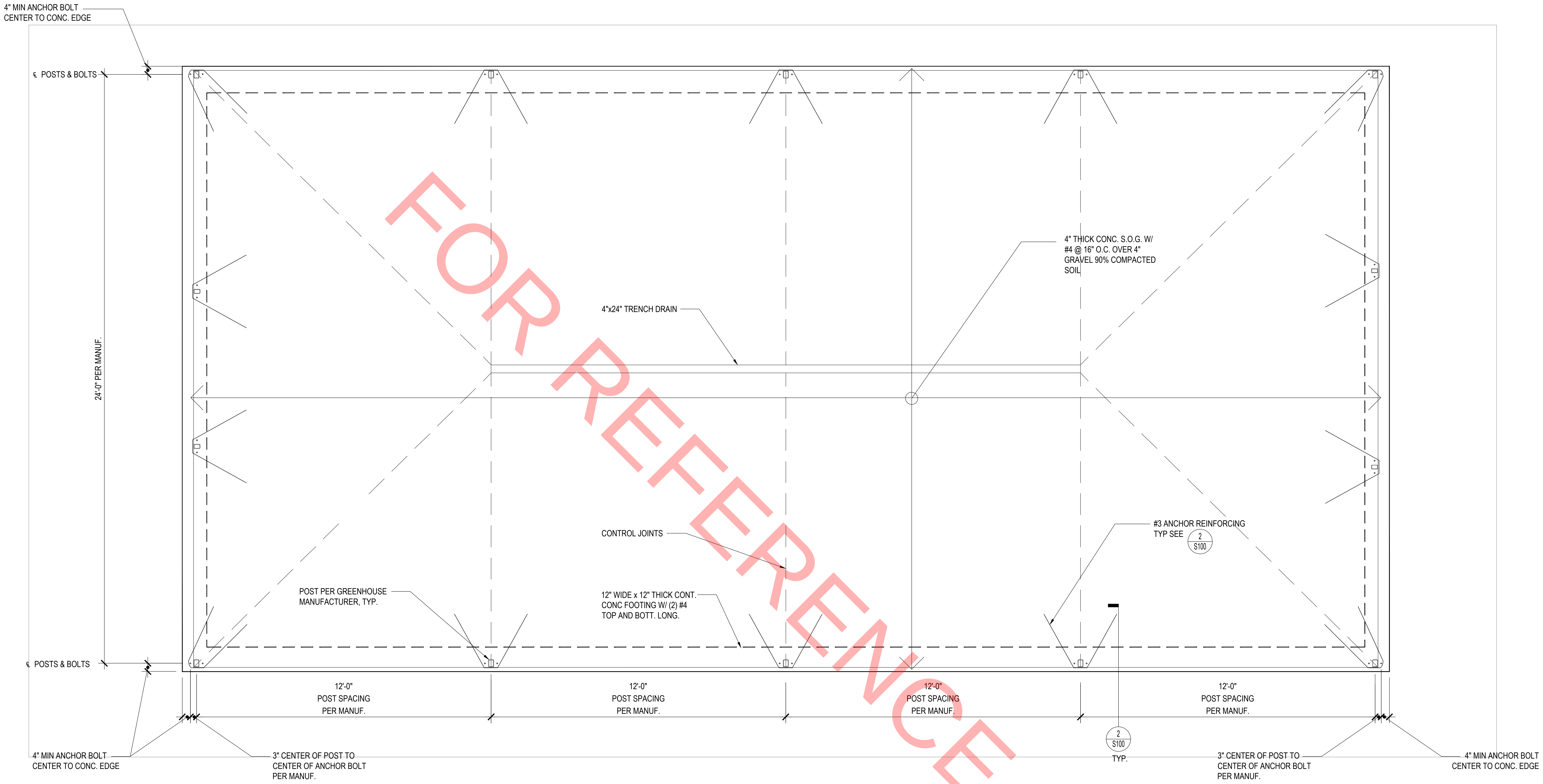
WILL A. LAMBERT
No. 5430
Exp. 06/30/2026
Will Lambert
09/18/2024

SHEET TITLE:

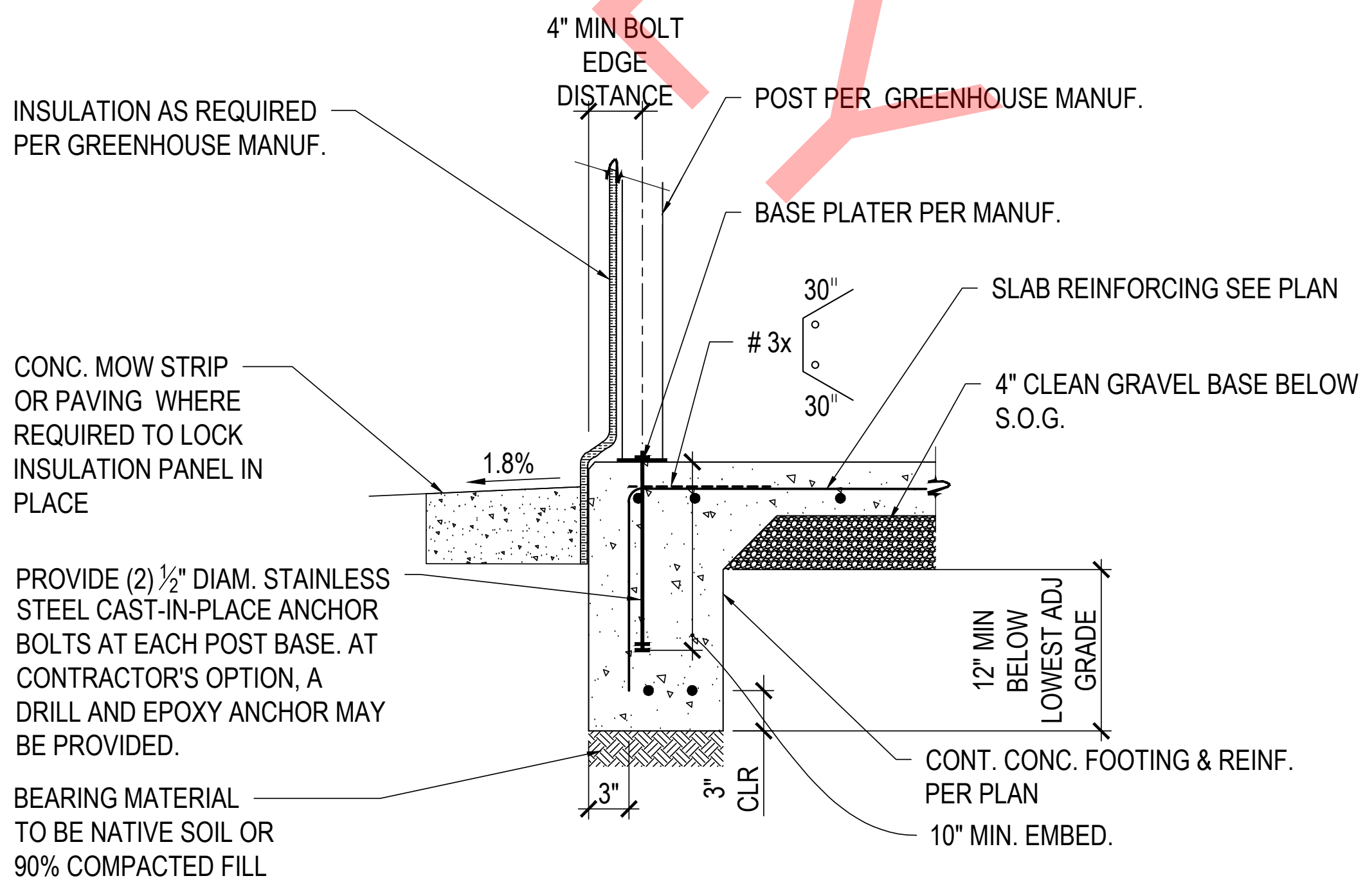
TYPICAL DETAILS

PROJECT NO.: 24-VCCCD-018
PROJECT ARCH: JA
DRAWN: MG
CHECKED: WL
SHEET NUMBER:
S010
DATE: 09/17/2024
SHEET: ____ OF ____

VERIFY ALL DIMENSIONS W/ GREENHOUSE MANUFACTURER



FOUNDATION PLAN 1/2" = 1'-0" 1



SECTION AT COLUMN BASE TO FOOTING 1" = 1'-0" 2

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STAMPS/SEALS

WILL A. LAMBERT
No. 5430
Exp. 06/30/2026
STRUCTURAL
Will Lamb

09/18/2024

SHEET TITLE:

FOUNDATION
PLAN

PROJECT NO:
PROJECT ARCH:
DRAWN: MG
CHECKED: WL
SHEET NUMBER:
S100
DATE: 09/18/2024
SHEET: ___ OF ___