COMMON INTEREST DEVELOPMENT

GRADING AND DRAINAGE

547 Runnymede St, East Palo Alto, CA 94303

SCOPE OF WORK:

1– PREPARING THE GRADING AND DRAINAGE AND EARTHWORK SPECIFICATION FOR THE PURPOSE OF THE GRADING PERMIT APPLICATION IN THE VICINITY OF THE NEW GARAGE.

GENERAL GRADING & DRAINAGE NOTES:

Note: This drawing is approved subject to:

1. All grading is subject to observation by the City. Permittee or representative shall notify the City; Department of Public Works Project Inspector at least 48 hours before start of any grading.

   The Project Inspector is ---------- Voicemail No. (-----) ----------

2. Approval of this plan applies only to (A) the excavation, placement, and compaction of natural earth materials, (B) the installation of on-site (i.e. private property) storm water conveyance and treatment facilities that are outside of the 5-foot Building envelope, and (C) the installation of retaining structures. This approval does not confer any rights of entry to either public property or the private property of others. Approval of this plan also does not constitute approval of any improvements with the exception of those listed above. Proposed improvements, with the exception of those listed above, are subject to review and approval by the responsible authorities and all other required permits shall be obtained.

3. Unless otherwise noted on the plan, any depiction of a retaining structure on this plan shall not constitute approval for construction of the retaining structure unless a separate structural review, by the Department of Public Works is completed and approved

4. It shall be the responsibility of the Permittee or agent to identify, locate and protect all underground facilities.

5. The permittee or agent shall maintain the streets, sidewalks and all other public rights-of-way in a clean, safe and usable condition. All spills of soil, rock or construction debris shall be removed from the publicly owned property during construction and upon completion of the project. All adjacent property, private or public shall be maintained in a clean, safe and usable condition.

6. All grading shall be performed in such a manner as to comply with the standards established by the Air Quality Management District for airborne particulates.

7. This project has been designed to comply with the Flood Hazard Area Regulations as stated in the City Municipal Code.

8. All known well locations on the site have been included and such wells shall be maintained or abandoned according to current regulations administered by the Water District. Call district to arrange for District observation of all well abandonment.

9. In the event that Human Remains and/or Cultural Materials are found, all project-related construction should cease within a 100-foot radius. The contractor shall, pursuant to section 7050.5 of the Health and Safety code, and section 5097.94 of the Public Resources Code of the State of California, notify the Santa Clara County Coroner immediately.

10. This plan does not approve the removal of trees. Appropriate tree removal permits and methods of tree preservation should be obtained from the City's Planning Department and the City Arborist.

11. For non-residential projects, any non-hazardous export resulting from project related excavation or land clearing shall be 100% reused and recycled per California Green Building Standards Code section 5.408.

12. Civil Engineer Information and Statements:
    A. The Civil Engineer for this project is: (Name and Address)

    AMIN GHAFOORIPOUR, CELLPHONE:415-728-5259, EMAIL:President@PAdir.US

    B. This Rough Grading Plan has been prepared under the direction of a licensed engineer and designed based on the recommendations of the referenced project Geotechnical Report.

    C. The stormwater conveyance system has been designed in accordance with the appropriate Building and Plumbing Codes or has been proven to be designed with adequate capacity through signed and sealed hydraulic calculations.

13. Soils Engineer Information and Requirements:
    A. The Soil Engineer for this project is: (Name and Address)

    E. The Geotechnical Report for this project is:

    F. All grading work shall conform to the recommendations of the project Geotechnical Report and/or the project Soil Engineer.

    G. All grading work shall be observed and approved by the Soil Engineer. The Soil Engineer shall be notified at least 48 hours before beginning any grading. Unobserved and/or unapproved grading work shall be removed and replaced under observation.

14. A post construction "Final" Report is required by the Director of Public Works from a Civil Engineer retained by the owner to observe the construction stating:

    A. "That the construction conforms to the lines and grades on the approved plans;" or

    B. "that all significant changes were reviewed and approved in advance by the Department of Public Works" and the Civil Engineer shall submit a "Record Drawing" plan.

15. A post construction "Final" Report is required by the Director of Public Works from a Soil Engineer, and also from an Engineering Geologist if the project is in a Geologic Hazard Zone, stating:

    A. "that the anticipated conditions and materials and actual site conditions and materials were compatible," and supply supporting data; or

    B. "that the design was modified to meet the new conditions and was reviewed and approved in advance by the Department of Public Works;" and provide supporting data for these statements.

16. According to the City's Waste Water Ordinance, the use of potable (piped or hydrant) water for building or construction purposes including consolidation of backfill or dust control is prohibited.

    Reclaimed water is available at multiple locations across the City. To certify for a recycled water meter, please contact the City.

    An application for an Exception Permit to approve use of hydrant water can be considered in the PW Development Services Office.

17. A Haul Route Permit is required for all projects moving more than 10,000 C.Y. of earth. This Grading Permit is invalid without the Haul Route Permit. Haul Route Permits should be obtained from the City's Transportation Department.

18. Grading will not be allowed between October 1st and April 30th of any year without Erosion Control plans and measures approved by the Director of Public Works. Stormwater pollution prevention measures in accordance with City specifications and with the document "Clean Bay Blueprint" shall be implemented throughout the year to the satisfaction of the Director of Public Works.

19. A post construction "as-built" plan is required by the Director of Public Works from a Civil or Soils Engineer retained by the owner to provide the final horizontal and vertical locations of the improvements approved with this plan such as subdrains, on-site storm water conveyance and treatment systems, and on-site retaining structures.

20. The project has been designed based on the Surveying map prepared by the licensed surveyor:
    KENNETH M. ANDERSON, LS #7523; Dec. 21, 2019

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EARTHWORK NOTES:

6. EARTHWORK QUANTITIES SHOWN ON THESE PLANS ARE FOR PERMIT PURPOSES. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION OF EARTHWORK QUANTITIES FOR BUILDING PURPOSES PRIOR TO BIDDING. FINAL GRADING QUANTITIES ARE DEPENDENT ON FIELD CONDITIONS, CONSTRUCTION TECHNIQUES AND SEQUENCES, FINAL COMPACTION OBTAINED, TRENCHING AND BACKFILL METHODS AND NUMEROUS OTHER FACTORS OUT OF THE CONTROL THE DESIGNER. ANY IMPORT OR EXPORT REQUIRED SHALL BE REFLECTED IN THE BID. NO ADDITIONAL COMPENSATION WILL BE MADE FOR IMPORT OR EXPORT REQUIRED UNLESS NECESSITATED BY UNFORESEEN FIELD CONDITIONS (E.G. UNSUITABLE EXISTING SOIL NOT DETECTED IN THE GEOTECHNICAL INVESTIGATION REPORT).

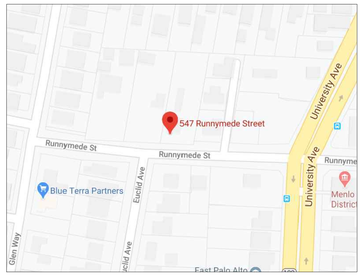
PROJECT DATA

ASSESSOR'S PARCEL NO. (APN): 063–201–190
ZONING DISTRICT: R–MD–2
OCCUPANCY GROUP: R–3/U
CONSTRUCTION TYPE: V–B
LOT SQUARE FOOTAGE (EXISTING): 19,492 SF
LOT SQUARE FOOTAGE (PROPOSED): 18,637 SF
AREA OF THE NEW BUILDING IN THE SITE= 12,201 SF
FOOTPRINT AREA IN THE SITE= 4,888 SF
FIRE LANE WITH PARKING= 6,431 SF
COURTYARD= 1,411 SF
OPEN SPACE/LANDSCAPE= 6,070 SF
TRASH ENCLOSURE= 167 SF
MAXIMUM HEIGHT OF THE RETAINING WALL= N.A.
Special Resources/Hazards/Constraints Areas:
FEMA Flood Zone: as per ASCE: X; NO FLOOD
Drains to: NA
Precipitation Intensity (15 min): 2.28 inches/h
Precipitation Intensity (60 min): 1.1 inches/h
Wildland Urban Interface Fire Area: NA
High County Landslide Hazard Zone: NA
State Seismic Hazard Zone (earthquake induced landslides): NA
GROUND WATER TABLE: NO INFORMATION AVAILABLE
TSUNAMI:(ASCE7/16) NOT MAPPED IN THE TSUNAMI DESIGN ZONE

IMPERVIOUS COVERAGE TABLE

SITE COVERAGE			TOTAL SF	TOTAL SF
IMPERVIOUS SURFACES			EXISTING	PROPOSED
FOOTPRINT OF THE BUILDINGS			0	4,888
ADDITION			0	0
ADU			0	0
ROOF OVERHANG			0	398
DRIVEWAY			0	0
WALKWAY, PAVE YARD			0	462
DEMOLISHED PAVEMENT			(2808)	–
PAVED AREA UNDER THE NEW CARPORT			0	–
SUBTOTAL IMPERVIOUS (#1)			(2808)	5748
LOT AREA (#2)= 18,637 SF				
PERVIOUS SURFACES	ACTUAL S.F.	50% CREDIT	TOTAL SF	TOTAL SF
PERMEABLE WALKWAY (CONCRETE)	0	0	0	0
PERMEABLE WALKWAY (PAVER)	1433	716.5	0	716.5
PERMEABLE DRIVEWAY (CONCRETE/ASPHALT)	6431	3215.5	–	3215.5
LANDSCAPE	–	–	0	0
SUBTOTAL PERVIOUS (#3)			16684	8957
SITE COVERAGE (IMPERVIOUS AREA)(#4)=(#2)-(#1)-(#3)			2808	9680
SITE COVERAGE RATIO =(#4)/(#2)			14.4%	51.9%

NOTE: POROUS ASPHALT CONCRETE WAS USED FOR THIS PROJECT, SO AS PER THE CITY OF E PALO ALTO, THE OWNER CAN TAKE ADVANTAGE OF GETTING CREDIT ONTHE SUGGESTED REBATE IN THE CITY WEBSITE.



LOCATION MAP

EARTH WORK QUANTITIES

CUT: 604 CY
FILL: 608 CY
EXPORT: 604 CY
IMPORT: 608 CY

NOTE: EARTHWORK QUANTITIES SHOWN ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INDEPENDENTLY ESTIMATE QUANTITIES FOR HIS/HER OWN USE.

BIOTREATMENT SOIL REQUIREMENTS

PRIOR TO ORDERING THE BIOTREATMENT SOIL MIX OR DELIVERY TO THE PROJECT SITE, CONTRACTOR SHALL PROVIDE A BIOTREATMENT SOIL MIX SPECIFICATION CHECKLIST, COMPLETED BY THE SOIL MIX SUPPLIER AND CERTIFIED TESTING LAB.

PERVIOUS CONCRETE/ASPHALT REQUIREMENTS

CONTRACTOR OR PERMITEE SHALL:

- PROVIDE CERTIFICATION FROM THE CONCRETE/ASPHALT MANUFACTURER THAT THE CONCRETE MEETS THE REQUIREMENTS OF THE C3 STORMWATER HANDBOOK FOR PERVIOUS PAVERS. THIS INCLUDES, BUT IS NOT LIMITED TO, HAVING A MINIMUM SURFACE INFILTRATION RATE OF 100"/HR WHEN TESTED IN ACCORDANCE WITH ASTM C1701.
- ONLY CONTRACTORS HOLDING CERTIFICATION OF COMPLETION FROM THE NATIONAL READY MIX CONCRETE ASSOCIATION (NRMA) SHALL INSTALL THE CONRETE AND AT LEAST ONE FOREMAN WITH THIS CERTIFICATION MUST BE ON THE JOB SITE AT ALL TIMES DURING CONCRETE INSTALLATION.
- PROTECT THE EXCAVATED AREA FOR FROM EXCESSIVE COMPACTION DUE TO CONSTRUCTION TRAFFIC AND PROTECT THE FINISHED PAVEMENT FROM CONSTRUCTION TRAFFIC.

PERVIOUS PAVER REQUIREMENTS

CONTRACTOR OR PERMITEE SHALL:

- PROVIDE CERTIFICATION FROM THE PAVER MANUFACTURER THAT THE PAVERS MEET THE REQUIREMENTS OF THE C3 STORMWATER HANDBOOK FOR PERVIOUS PAVERS. THIS INCLUDES, BUT IS NOT LIMITED TO, HAVING A MINIMUM SURFACE INFILTRATION RATE OF 100"/HR WHEN TESTED IN ACCORDANCE WITH ASTM C1701.
- ONLY CONTRACTORS HOLDING CERTIFICATION OF COMPLETION IN THE INTERLOCKING CONCRETE PAVEMENT INSTITUTES PICP INSTALLER TECHNICIAN COURSE SHALL BE USED TO INSTALL THE PAVERS AND AT LEAST ONE FOREMAN WITH THIS CERTIFICATION MUST BE ON THE JOBSITE AT ALL TIMES DURING CONCRETE PAVER INSTALLATION.
- PROTECT THE EXCAVATED AREA FOR PERVIOUS PAVERS FROM EXCESSIVE COMPACTION DUE TO CONSTRUCTION TRAFFIC AND PROTECT THE FINISHED PAVEMENT FROM CONSTRUCTION TRAFFIC.

APPROVED FOR GRADING AND DRAINAGE ONLY

DEPARTMENT OF PUBLIC WORKS
CITY OF SAN JOSE, CALIFORNIA

Project Engineer — Date
Senior Engineer — Date
Permit Number — Expiration Date

ENGINEERING GEOLOGIST AND GEOTECHNICAL ENGINEER OF RECORD

THIS PLAN HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL CONFORMANCE WITH THE INTENT AND PURPOSE OF THE GEOTECHNICAL AND GEOLOGIC REPORT.

PREPARED BY (COMPANY NAME) — DATE OF REPORT
BY C.E.G. # — BY G.E. #

PADIR
CONSULTING ENGINEER
INNOVATIVE
CIVIL/STRUCTURAL ENG. SERVICES
CA–LICENSE # C–84986
415–728–5259
WWW.PADIR.US

REGISTERED PROFESSIONAL ENGINEER
DR. AMIN GHAFOORIPOUR
C84986
Exp. 3/31/22
CIVIL
STATE OF CALIFORNIA

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PROJECT TITLE:
COMMON INTEREST DEVELOPMENT
GRADING AND DRAINAGE
547 Runnymede St, East Palo Alto, CA 94303

REVISION	DESCRIPTION	DATE
00	APPLICATION FOR PERMIT	06/07/2020

DRAWING TITLE:
PROJECT SPECIFICATION

PROJECT NO	684–19108
SUB–PROJ #	1
LEAD ENGINEER	AMIN GHAFOORIPOUR
DESIGNED BY:	AMIN GHAFOORIPOUR HEYDAR ABBASI
DRAWN BY:	HEYDAR ABBASI
CHECKED BY:	AMIN GHAFOORIPOUR
AUTHORIZED BY:	AMIN GHAFOORIPOUR
FIELD:	CIVIL
DATE:	06/07/2020

DWG. NO.
684-DR-2-
CI-1.1

CONSTRUCTION NOTES:

1. ALL CONSTRUCTION STAKING FOR CURB, GUTTER, SIDEWALK, SANITARY SEWERS, STORM DRAINS, WATER LINES, FIRE HYDRANTS, ELECTROLIERS, ETC., SHALL BE DONE BY A REGISTERED CIVIL ENGINEER OR LICENSED LAND SURVEYOR.

2. WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THESE NOTES.

3. STANDARD CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO BETWEEN 7:00 A.M. AND 5:00 P.M., MONDAY THROUGH FRIDAY. NO CONSTRUCTION ACTIVITY SHALL TAKE PLACE ON SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS UNLESS APPROVED, IN WRITING, BY THE OWNER AND CITY.

4. PRIOR TO FINAL PREPARATION OF THE SUBGRADE AND PLACEMENT OF BASE MATERIALS FOR PAVED AREAS, UNDERGROUND UTILITY MAINS SHALL BE INSTALLED AND SERVICE CONNECTIONS STUBBED OUT. STUB-OUTS SHALL BE INSTALLED IN A MANNER WHICH WILL NOT DISTURB THE PAVEMENT, CURB AND GUTTER AND WALKS WHEN SERVICE CONNECTIONS ARE MADE.

5. EXCAVATIONS SHALL BE ADEQUATELY SHORED, BRACED AND SHEATHED SO THAT THE EARTH WILL NOT SLIDE OR SETTLE AND SO THAT EXISTING IMPROVEMENTS WILL BE FULLY PROTECTED FROM DAMAGE. DAMAGE RESULTING FROM A LACK OF ADEQUATE SHORING, BRACING AND SHEATHING, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND HE SHALL COMPLETE NECESSARY REPAIRS OR RECONSTRUCTION AT HIS OWN EXPENSE. WHERE THE EXCAVATION FOR A CONDUIT TRENCH, AND/OR STRUCTURE IS FIVE (5) FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL PROVIDE SHEATHING, SHORING AND BRACING IN CONFORMANCE WITH THE APPLICABLE CONSTRUCTION SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY OF THE STATE OF CALIFORNIA. THE CONTRACTOR SHALL COMPLY WITH OSHA REQUIREMENTS.

6. DURING CONSTRUCTION, THE CONSTRUCTION AREA AND CITY STREETS SHALL BE CLEANED AS OFTEN AS REQUIRED TO REMOVE ACCUMULATION OF MUD AND DEBRIS RESULTING FROM CONSTRUCTION. IF IMPORT OR EXPORT OF DIRT IS NECESSARY, THE CONTRACTOR SHALL OBTAIN AN APPROVAL FOR THE HAULING ROUTE FROM THE CITY ENGINEERING DIVISION. THE HAULING ROUTES SHALL BE STRICTLY ADHERED TO BY THE CONTRACTOR AND SUBCONTRACTORS. DIRT HAULING PERMIT REQUIRED.

7. SHOULD IT APPEAR THAT THE WORK OUTLINED ON THESE PLANS IS NOT SUFFICIENTLY DETAILED OR SPECIFIED IN THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT BEFORE PROCEEDING WITH THE WORK IN QUESTION AND REQUEST CLARIFICATION.

8. WHEN SPECIFICATIONS OR STANDARDS FROM DIFFERENT AUTHORITIES DIFFER FOR THE SAME SUBJECT MATTER, NOTIFY OWNER AND REQUEST CLARIFICATION.

9. UPON SATISFACTORY COMPLETION OF THE WORK, THE WORK SITE SHALL BE CLEANED UP AND LEFT WITH A SMOOTH AND NEATLY GRADED SURFACE FREE OF CONSTRUCTION WASTE AND RUBBISH OF ANY NATURE BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AND OWNER.

10. ARTICLE 87 OF THE UFC SHALL BE FOLLOWED FOR AREAS UNDER CONSTRUCTION. CONTACT THE CITY FIRE DEPARTMENT FOR SPECIFIC REQUIREMENTS FOR BUILDINGS UNDER CONSTRUCTION.

11. THE CONTRACTOR SHALL BE AWARE THAT DEWATERING ACTIVITIES SHALL COMPLY WITH THE CONDITIONS OF THE BAY AREA REGIONAL WATER QUALITY CONTROL BOARD GENERAL PERMIT FOR CONSTRUCTION SITES.

12. THE CONTRACTOR SHALL ABIDE BY THE RULES AND REGULATIONS OF THE STATE OF CALIFORNIA CONSTRUCTION SAFETY ORDERS PERTAINING TO EXCAVATIONS AND TRENCHES.

13. THE CONTRACTOR SHALL ADJUST TO FINAL GRADE EXISTING AND/OR NEW UTILITY BOX, MANHOLES, CURB INLETS, CATCH BASINS, VALVES, MONUMENT COVERS, AND OTHER CASTINGS WITHIN THE WORK AREA TO FINAL GRADE IN PAVEMENT AND LANDSCAPE AREAS, UNLESS NOTED OTHERWISE.

14. THE CONTRACTOR SHALL MEET AND FOLLOW NPDES REQUIREMENTS IN EFFECT AT THE TIME OF CONSTRUCTION.

15. IF ARCHAEOLOGICAL MATERIALS ARE UNCOVERED DURING DEMOLITION WORK, WORK WITHIN 100 FEET OF THESE MATERIALS SHALL BE STOPPED UNTIL A PROFESSIONAL ARCHAEOLOGIST WHO IS CERTIFIED BY THE SOCIETY OF CALIFORNIA ARCHAEOLOGY (SCA) AND/OR THE SOCIETY OF PROFESSIONAL ARCHAEOLOGY (SOPA) HAS HAD AN OPPORTUNITY TO EVALUATE THE SIGNIFICANCE OF THE FIND AND SUGGEST APPROPRIATE MITIGATION MEASURES, IF THEY ARE DEEMED NECESSARY.

II. LAYOUT NOTES

1. CURB RETURN RADII AND CURB DATA ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.

2. CURB INLETS ARE REFERENCED TO CENTERLINE OF STRUCTURE AT TOP OF CURB.

3. DRAINAGE AND SANITARY SEWER STRUCTURES ARE REFERENCED TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.

IV. UTILITIES

1. BEFORE DISCONNECTING UTILITY SERVICE TO ANY ESTABLISHMENT, CONTRACTOR SHALL GIVE ADVANCE NOTICE TO ESTABLISHMENT BEFORE THEIR UTILITY IS SHUT DOWN, MAKE ARRANGEMENTS WITH THOSE ESTABLISHMENTS FOR A SCHEDULED SHUT DOWN AND COORDINATE DATE OF SHUT DOWN, DURATION, INCONVENIENCE, DELAYS, ETC. WITH A REPRESENTATIVE OF THE CITY AND/OR RESPECTIVE UTILITY AGENCY.

13. PRIOR TO MAKING FINAL CONNECTIONS TO THE EXISTING WATER SYSTEM, NEWLY INSTALLED WATER PIPELINES, VALVES, AND FITTINGS SHALL BE FLUSHED, STERILIZED AND TESTED BY THE CONTRACTOR, AND SHALL PASS BACTERIA AND OTHER WATER QUALITY REQUIREMENTS BEFORE PUT INTO SERVICE. (REFER TO CITY OF REDWOOD CITY STANDARD SPECIFICATIONS FOR TESTING AND STERILIZATION REQUIREMENTS.) CONTRACTOR SHALL SUPPLY MATERIALS, LABOR, AND EQUIPMENT REQUIRED TO DISINFECT THE PIPELINES AND APPURTENANCES.

14. ON-SITE LANDSCAPE IRRIGATION SYSTEMS SHALL BE IN ACCORDANCE WITH THE LANDSCAPE ARCHITECTURAL PLANS AND SPECIFICATIONS AND SHALL BE CONNECTED TO THE EXISTING AND/OR NEW WATER SYSTEM.

GRADING NOTES

1. DATE OF SURVEY: OCTOBER, 2016.
2. FINISHED GRADES ALONG THE PERIMETER OF THE FOUNDATION TO BE SLOPED AT A MINIMUM OF 5% FOR A MINIMUM OF 5 FEET.
3. ON-SITE UTILITY TRENCHES SHALL BE BACKFILLED WITH COMPACTED ENGINEERED FILL. THE FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED EIGHT (8) INCHES IN UNCOMPACTED THICKNESS AND SHALL BE MECHANICALLY COMPACTED TO AT LEAST 90% RELATIVE COMPACTION.
4. LOCATION OF TREES SHOWN HEREON ARE TAKEN AT A POINT THAT THE TREE ENTERS THE GROUND. SIZES OF TREES SHOWN HEREON ARE TAKEN AT DBH (DIAMETER AT BREAST HEIGHT)
5. ALL UTILITIES SHALL BE UNDERGROUND FROM THE PROPERTY LINES IN. LOCATION OF METERS ARE AS NOTED. COORDINATE ALL SUCH WORK WITH THE UTILITY COMPANY HAVING JURISDICTION.
6. CONTRACTOR SHALL BARRICADE AND PROTECT ALL EXISTING SITE FEATURES INCLUDING TREES, FENCES, GATES, UTILITIES, ETC.
7. ALL ON-SITE STORM DRAINAGE AND SANITARY SEWER PIPE TO BE PVC SCHEDULE 40 SDR-26 MIN. SLOPE AT 1.5% MIN.

X. STATEMENT OF RESPONSIBILITY

1. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.

2. CONTRACTOR SHALL COMPLY WITH STATE, COUNTY AND CITY LAWS AND ORDINANCES; AND REGULATIONS OF THE DEPARTMENT OF INDUSTRIAL RELATIONS, OSHA AND INDUSTRIAL ACCIDENT COMMISSION RELATING TO SAFETY AND CHARACTER OF WORK, EQUIPMENT AND LABOR PERSONNEL.

XI. UNAUTHORIZED CHANGES AND USES

1. THE CIVIL DESIGN ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

PAVEMENT NOTES

Driveway Pavement

We recommend that the driveway pavement subgrade be prepared based on our recommendations presented under the heading *Site Preparation and Grading*, above. As a preliminary recommendation for an asphalt concrete pavement for the proposed driveway, using Topic 608 of the State of California Department of Transportation Highway Design Manual, R-value test results, and assumed traffic indices (TIs), we recommend the pavement sections presented in Table 2, below. The R-value for the subgrade was assumed to be about 10.

The traffic indices used in our preliminary pavement design are considered reasonable values for the proposed project and should provide the indicated pavement lives with only a normal amount of pavement maintenance. Selection of the design traffic parameters, however, was based on engineering judgment and not on an equivalent wheel-load analysis developed from a traffic study or one furnished to us.

Asphaltic concrete, aggregate base, and preparation of the pavement subgrade should conform to and be placed in accordance with provisions of Caltrans Standard Specifications.

Table 2 Recommended preliminary pavement sections

Location	Anticipated pavement life (years)	Pavement components: Asphaltic concrete (inch)	Pavement components: Aggregate base class 2 (inch)	Total thickness (inch)
Automobile & light truck parking & access areas (T.I. = 4.5 for 20-year life)	11-20	2.5	9.0	11.5
	6-10	2.5	8.0	10.5
	1-5	2.5	7.0	9.5
Heavy truck access (T.I. = 6.0 for 20-year life)	11-20	3.0	13.0	16.0
	6-10	3.0	12.0	15.0
	1-5	3.0	11.0	14.0

In areas where the pavements will abut planted areas, the pavement baserock layer should be protected against saturation from irrigation. Planned concrete curbs should extend to the bottom of the baserock layer, thereby forming a barrier between the planter and the pavement section.

Wet-weather Construction

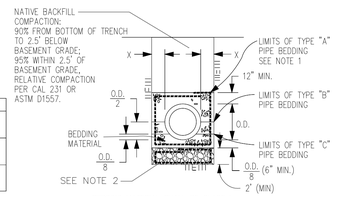
If construction proceeds during or shortly after wet weather conditions, the moisture content of the on-site soils could appreciably increase leading to potential slope stability problems. Consequently, working at the site may become difficult and even hazardous. In addition, construction excavations may become exposed to accumulated standing runoff water, which may adversely impact the project. Wet weather construction recommendations can be provided by the geotechnical engineer in the field at the time of construction, if appropriate.

Concrete Walkways

Concrete walkways should be supported directly on the properly prepared and compacted engineered fill. Subgrade soil should be compacted to 88–93% relative compaction at a few percent above optimum moisture content to provide a smooth, unyielding surface. Subgrade soil should be maintained in a moist and compacted condition until covered with the concrete walkway section.

PIPE SIZE	LIMITS OF X: MINIMUM	LIMITS OF X: MAXIMUM
24" OR LESS	4"	4" + O.D./4
27" AND GREATER	6"	6" + O.D./4

BEDDING TYPE	CATEGORY OF PIPE
A	VITRIFIED CLAY PIPE, CONCRETE PIPE 25" DIA. AND GREATER, PVC
B	CONCRETE PIPE 24" DIA. AND LESS
C	DUCTILE IRON PIPE



NOTES:
1) GEOTEXTILE TO BE PLACED BETWEEN NATIVE BACKFILL AND TYPE 'A' BEDDING IF THE NATIVE SOIL SURROUNDING THE TRENCH IS FOUND TO BE HEAVY CLAY. FOR ALL OTHER NATIVE SOIL CONDITIONS THE GEOTEXTILE SHALL BE WRAPPED AROUND THE ENTIRE TRENCH AS SHOWN.
2) GEOTEXTILE AND CLASS I, BEDDING STABILIZATION MATERIAL SHALL BE USED FOR UNSUITABLE SOIL CONDITIONS ONLY OR AS DIRECTED BY CITY ENGINEER/INSPECTOR.

BEDDING MATERIAL SHALL BE CLASS I (CRUSHED STONE) IN ACCORDANCE WITH THE 1992 CITY STANDARD SPECIFICATION 1301-2.

BEDDING DETAIL
FOR ALL STORM PIPE

TECHNICAL NOTES:

ALL WORK SHALL BE IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (LATEST EDITION, AS AMENDED), AND STANDARD PLANS (LATEST EDITION, AS AMENDED), AND CITY OF CUPERTINO STANDARD DETAILS. THE CONTRACTOR SHALL PERFORM THE WORK DESCRIBED IN THE SPECIFICATION, AND AS SHOWN ON THE DRAWINGS, AND TO THE SATISFACTION OF THE CITY ENGINEER.

APPROVAL OF THESE PLANS SHALL NOT RELEASE THE OWNER OR CONTRACTOR OF THE RESPONSIBILITY FOR CORRECTIONS OF MISTAKES, ERRORS, OR OMISSIONS CONTAINED THEREIN. IF DURING THE COURSE OF CONSTRUCTION OF IMPROVEMENTS, PUBLIC INTEREST REQUIRES A MODIFICATION OF/OR A DEPARTURE FROM THE CITY OF CUPERTINO STANDARD DETAILS OR THESE IMPROVEMENTS PLANS, THE CITY ENGINEER SHALL HAVE THE AUTHORITY TO REQUIRE SUCH MODIFICATION OR DEPARTURE AND TO SPECIFY THE MANNER IN WHICH THE SAME IS TO BE COMPLETED, AT THE SOLE EXPENSE OF THE OWNER OR CONTRACTOR.

APPROVAL OF THESE PLANS BY THE CITY ENGINEER IS ONLY FOR PUBLIC RIGHT-OF-WAY IMPROVEMENTS (INCLUDING STORM DRAIN IN THE RIGHT OF WAY), AND NOT FOR WATER, SEWER OR DRY UTILITIES. IT IS THE DEVELOPER'S/OWNER'S RESPONSIBILITY TO COORDINATE REVIEWS AND APPROVAL FROM EACH OF THE UTILITY COMPANIES, AND TO PROVIDE APPROVAL LETTERS AS REQUESTED.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THE APPROVED PLANS OR THE LATEST REVISED PLANS ARE FURNISHED TO ITS SUBCONTRACTORS, AND TO ENSURE THE LATEST APPROVED PLANS ARE ONSITE AT ALL TIMES DURING CONSTRUCTION.

THE CONTRACTOR SHALL LOCATE UNDERGROUND FACILITIES IN THE AREA OF WORK. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT 811 TWO (2) WORKING DAYS IN ADVANCE OF ANY WORK FOR LOCATION OF THE UNDERGROUND FACILITIES.

ALL UNDERGROUND UTILITIES SHALL BE INSTALLED AND BACKFILLED BEFORE PLACEMENT OF THE BASE MATERIAL AND SURFACE STRUCTURES. IF UTILITIES ARE TO BE INSTALLED SUBSEQUENTLY, A WRITTEN NOTIFICATION FROM THE AFFECTED UTILITY COMPANY INDICATING ITS COMMITMENT TO BORE OR TUNNEL SHALL BE SUBMITTED TO THE CITY ENGINEER BEFORE PROCEEDING WITH THE WORK. UNDERGROUND UTILITIES, EXCEPT STORM DRAINS AND SANITARY SEWERS, SHALL NOT BE PERMITTED IN PAVEMENT AREA, WITH THE EXCEPTION OF STREET CROSSINGS, UNLESS APPROVED BY THE CITY ENGINEER.

ALL WATER LINES, VALVES, HYDRANTS, AND APPURTENANCES THERETO INSTALLED WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE THE PROPERTY OF THE WATER UTILITY COMPANY.

STORM DRAIN LINES INSTALLED AS PART OF THE WORK ON THESE PLANS SHALL BE CLEARED OF ALL DEBRIS AND OBSTRUCTIONS PRIOR TO FINAL ACCEPTANCE.

ALL TRENCH BACKFILL, FILL AREAS, AND BASE MATERIAL SHALL ATTAIN A MINIMUM 95% RELATIVE COMPACTION. FOR TYPICAL TRENCH SECTIONS, EXCEPT FOR SANITARY SEWERS, REFER TO THE CITY STANDARD DETAILS.

THE DEVELOPER SHALL PAY ALL COSTS FOR MOISTURE-DENSITY CURVES (CALIF. TEST NO. 216E) AND ANY OTHER TESTS REQUIRED BY THE CITY ENGINEER DURING STREET CONSTRUCTION.

TREES, ROOTS, AND FOREIGN MATTER IN EXISTING OR PROPOSED RIGHT-OF-WAY SHALL BE REMOVED TO A DEPTH OF TWO (2) FEET BELOW SUBGRADE AND DISPOSED OF PER CALTRANS STANDARDS. IN THE CASE OF LIVE TREE ROOTS FROM CITY STREET TREES, CONTRACTOR SHALL CONTACT THE CITY FOR FIELD OBSERVATION PRIOR TO REMOVING TREE ROOTS.

TRENCH PLATES IN THE TRAVELED WAY SHALL BE TRAFFIC RATED, PROPERTY SECURED AND SHALL BE RECESSED UPON THE REQUEST OF THE DIRECTOR OF PUBLIC WORKS.

ALL TRENCHES LOCATED WITHIN 5' OF THE EDGE OF PAVEMENT (IE. CURB, LIP OF GUTTER, EDGE OF PAVEMENT, ETC.) SHALL BE REPAVED TO THE EDGE OF PAVEMENT.

ALL NEW PAVEMENT SHALL MATCH THE EXISTING PAVEMENT SECTION. A MINIMUM PAVEMENT SECTION OF 3" AC/6" CLASS 2 AB IS REQUIRED.

EXISTING PAVEMENT THAT IS REMOVED OR DAMAGED SHALL BE REPLACED AS REQUIRED BY THE CITY ENGINEER.

MANHOLE FRAMES AND COVERS SHALL BE BROUGHT TO FINISH GRADE PRIOR TO FINAL SIGNOFF.

FIVE (5) WORKING DAYS PRIOR TO INSTALLING PERMANENT STRIPING, THE CONTRACTOR SHALL CAT TRACK THE STRIPING AND REQUEST REVIEW OF THE CAT TRACKS BY THE CITY TRAFFIC ENGINEER. THE CITY ENGINEER SHALL HAVE THE RIGHT TO MAKE CHANGES IN THE LOCATION OF THE ALIGNMENT OF TRAFFIC STRIPES, PAVEMENT MARKINGS, AND PAVEMENT MARKERS.

CONCRETE FOR USE IN ALL CONCRETE STRUCTURES SHALL CONFORM TO CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTION 90. DROP INLETS, SIDEWALKS, CURBS AND GUTTERS SHALL CONTAIN 590 LBS. OF CEMENT PER CUBIC YARD AND SHALL ATTAIN A MINIMUM STRENGTH OF 3,000 PSI IN 28 DAYS.

DROP INLETS SHALL BE CONSTRUCTED CONFORMING TO CITY STANDARD DETAILS UNLESS OTHERWISE NOTED ON THE PLANS. DROP INLETS SHALL BE INSTALLED CONCURRENT WITH THE CONSTRUCTION OF THE CURB AND GUTTER "NO DUMPING FLOWS TO THE BAY" PLAQUE SHALL BE INSTALLED ON THE CURB ADJACENT TO ALL INLETS.

A MINIMUM THICKNESS OF FIVE (5) INCHES OF CONCRETE SHALL BE REQUIRED FOR COMMERCIAL DRIVEWAY APPROACHES AND FOUR (4) INCHES FOR RESIDENTIAL. THE DRIVEWAY APPROACH SHALL BE INSTALLED CONCURRENT WITH THE CONSTRUCTION OF THE CURB AND GUTTER.

ONE POUND OF DISPERSING BLACK SHALL BE MIXED WITH EACH CUBIC YARD OF CONCRETE AT THE BATCH PLANT.

CITY STANDARD STREET LIGHTS SHALL BE INSTALLED AS REQUIRED BY THE DIRECTOR OF PUBLIC WORKS, AND SHALL CONFORM TO THE CITY STANDARD DETAILS AND NOTES. DURING CONSTRUCTION OPERATIONS, TEMPORARY STREET LIGHTING SHALL BE PROVIDED AS NECESSARY TO ENSURE THE PUBLIC SAFETY. TEMPORARY STREET LIGHTS SHALL BE INSTALLED AT THE DISCRETION OF, AND TO THE SATISFACTION OF, THE DIRECTOR OF PUBLIC WORKS.

CITY STANDARD STREET MONUMENTS SHALL BE CONSTRUCTED AT THE LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE CITY ENGINEER.

NEW CITY STANDARD STREET MONUMENTS AND OTHER PERMANENT MONUMENTS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BEFORE ACCEPTANCE OF THE IMPROVEMENTS BY THE CITY ENGINEER. ATTENTION IS DIRECTED TO SECTION 8771 OF THE CALIFORNIA BUSINESS AND PROFESSIONS CODE FOR THE REQUIREMENTS CONCERNING SURVEY MONUMENTS. EXISTING SURVEY MONUMENTS SHALL BE LOCATED AND REFERENCED BY OR UNDER THE DIRECTION OF A LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER PRIOR TO CONSTRUCTION OPERATIONS, AND A CORNER RECORD OR RECORD OF SURVEY SHALL BE FILED WITH THE COUNTY SURVEYOR OF THE COUNTY OF SANTA CLARA. EXISTING SURVEY MONUMENTS SHALL BE RESET TO FINISH GRADE, AND A CORNER RECORD OR RECORD OF SURVEY SHALL BE FILED WITH THE COUNTY SURVEYOR OF THE COUNTY OF SANTA CLARA PRIOR TO THE RECORDING OF THE CERTIFICATE OF COMPLETION FOR THE PROJECT.

CONSTRUCTION SURVEY STAKES OR MARKS (CONTROL STAKES) TO ESTABLISH LINES AND GRADES SHALL BE SET BY THE CONTRACTOR'S SURVEYOR OR ENGINEER.

NOTIFY THE CITY INSPECTOR TWO (2) WORKING DAYS IN ADVANCE OF REQUIRING SERVICES FOR CHECKING FIELD STAKING. THREE (3) COPIES OF THE CUT SHEETS SHALL BE FURNISHED TO THE CITY INSPECTOR.

GRADING OF LOTS SHALL BE COMPLETED AS DETERMINED BY THE CITY ENGINEER, AS SHOWN ON THE PLANS, AND SHALL FOLLOW REQUIREMENTS AND STANDARDS AS SET FORTH IN THE CITY STANDARD GRADING AND DRAINAGE NOTES.

CONCRETE WORK SPECIFICATION:

1- ALL CONCRETE CONSTRUCTION SHALL BE PER CBC CHAPTER19 AND IN ACCORDANCE WITH ACI 301(STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE.

2- ALL CONCRETE SHALL OBTAIN A 56 DAY MINIMUM COMPRESSIVE STRENGTH IN THE TABLE BELOW. THE MIX SHALL CONTAIN A MAXIMUM OF 6 SACKS OF CEMENTITIOUS MATERIALS. CONCRETE MIX SHALL MEET REQUIREMENTS OF CBC SECTION1905, MAXIMUM WATER TO CEMENTITIOUS MATERIAL RATIO AS PER THE BELOW TABLE AND MAXIMUM OF 4" OF THE NATURAL SLUMP UNLESS THE ADMIXTURE IS USED AS PER VENDOR SPECIFICATION.

3- CEMENT SHALL CONFORM TO ASTM C150. USE TYPE V CEMENT WHERE SOIL CONTAINS MORE THAN 0.2% SULFATE CONCENTRATIONS, OR WHEN THE INFORMATION WAS NOT GIVEN IN THE SOIL REPORT OR IF THE SOIL INVESTIGATION WAS NOT CONDUCTED.

4- HARD ROCK AGGREGATES SHALL CONFORM TO ASTM C33 MAXIMUM NORMAL SIZE OF AGGREGATE SHALL NOT EXCEED 1 ½ INCHES FOR FOUNDATION CONCRETE AND 1" FOR STRUCTURAL CONCRETE ABOVE THE FOUNDATION THE MINIMUM AGGREGATE SIZE IS ¾".SEE ALSO THE REQUIREMENTS IN ACI STANDARD SPECIFICATIONS.

5- MAXIMUM NORMAL SIZE SHALL ALSO BE SELECTED SUCH THAT WORKABILITY AND PLAYABILITY OF CONCRETE ARE FACILITATED.

6- MAXIMUM VERTICAL DROP OF CONCRETE SHALL BE NO MORE THAN 2' FROM END OF PLACEMENT DEVICE TO PLACEMENT SURFACE .

LEGEND:

EXISTING	(Symbol Size May Vary)	PROPOSED
	PROPERTY BOUNDARY	
	LOT LINE	
	CURB & GUTTER	
	STORM DRAIN	
	SWALE	
	FENCE LINE	
DW	DOMESTIC WATER LINE	DW
FW	FIRE WATER LINE	FW
	COMMUNICATION LINE	
	ELECTRIC LINE	
	GAS LINE	
	WATER LINE	
	JOINT UTILITY LINE	
	SANITARY SEWER LINE	
	STORM DRAIN LINE	
	STREET LIGHT LINE	
	CUT / FILL TRANSITION	
△	CITY STANDARD CURB INLET	▲
□	FIELD INLET / FLAT GRATE INLET	■
	AREA DRAIN	
◎	STORM MANHOLE	◎
	DIRECTION OF SURFACE DRAINAGE	
	OVERLAND RELEASE	
10	CONTOUR	10
	LIMIT OF GRADING	
	RETAINING WALL	
	WATER SHUT OFF VALVE	WV

ABBREVIATION:

BOW	BOTTOM OF WALL	PVC	Poly Vinyl Chloride
BW	BACK OF WALL ELEV.	PUE	Public Utility Easement
BOP	BOTTOM OF PIPE	PVC	Polyvinyl Chloride
CI	CURB INLET	RCP	Reinforced Concrete Pipe
CL	Center Line	RG	Rough Grade
CS	Concrete Surface	R/W	Right-of-Way
DS	DOWNSPOUT	S	SLOPE
FF	Finished Floor	SD	Storm Drain
FL	Flow Line	SDMH	Storm Drain Manhole
FG	FLOOR GRADE	TC	Top of Curb
GB	Grade Break	TCM	Treatment Control Measure
GS	Garage Slab	TDC	Top of Depressed Curb
HM	Hydromodification	TVC	Top of Vertical Curb
HP	High Point	TOW	TOP OF WALL
LP	Low Point	FFL	FINISH FLOOR LEVEL
PL	Property Line	T.O.S.	TOP OF SIDE WALK

MINIMUM CONCRETE CLEAR COVER TO BARS

FOUNDATION AND TIE BEAMS (FORMED):
3"- BOTTOM
2"- TOP BARS &SIDE STIRRUPS

CONCRETE CAST AGAINST SOIL:
3"- NOT FORMED
2"- FORMED

SLAB-ON-GRADE:
3"- BOTTOM BARS
1"- TOP BARS.

WALLS (WITH WATERPROOFING):
2"-FROM EXTERIOR FORMED SURFACE
1 ½"- FROM INTERIOR FORMED SURFASE

CENTERED-BARS IN SINGLE CURTAIN:

REBAR BENDING/SPLICING DETAILS:

BAR SIZE	STRAIGHT BARS: DEVELOPMENT LENGTH	HOOKED BARS: DEVELOPMENT LENGTH	DIA. (db)
# 3	13"	7"	3/8"
# 4	17"	9"	½"
# 5	21"	11"	5/8"
# 7	37"	15"	7/8"

CONCRETE STRENGTH:

PROVIDE MIX DESIGNS THAT WILL MEET THE MINIMUM REQUIREMENTS LISTED BELOW. INCREASE CEMENT CONTENT OVER THAT SHOWN, IF REQUIRED TO OBTAIN THE COMPRESSIVE STRENGTH:

CONCRETE MIX DESIGN SCHEDULE

LOCATION	MIN. 28-DAY COMPRESSIVE STRENGTH (PSI)	MAX WATER CEMENT RATIO	SLUMP RANGE (IN.)	MAX AGGREGATE SIZE (IN.)
SLAB ON GRADE RESIDENTIAL AREA EXCEPT GARAGE	2500	0.50	3"-5"	1"
SLAB-ON-GRADE OTHER AREAS INCLUDING PARKING/GAGAE	3000	0.50	3"-5"	1"
RETAINING WALLS	3000	0.50	3"-5"	1"
MISCELLANEOUS	3000	0.55	3"-5"	1"
PT SLAB	5000	0.5	3"-5"	3/4"
CMU	2000			
CONCRETE CURB AND GUTTER	4000	0.5	3"-5"	3/4"

PADIR
CONSULTING ENGINEER
INNOVATIVE
CIVIL/STRUCTURAL ENG. SERVICES
CA-LICENSE # C-84986
415-728-3259
WWW.PADIR.US

REGISTERED PROFESSIONAL ENGINEER
DR. AMIN GHAFOORIPOUR
C84986
Exp. 3/31/22
CIVIL
STATE OF CALIFORNIA

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REVISION	DESCRIPTION	DATE
00	APPLICATION FOR PERMIT	06/07/2020

PROJECT TITLE:

COMMON INTEREST DEVELOPMENT
GRADING AND DRAINAGE
547 Runnymede St, East
Palo Alto, CA 94303

DRAWING TITLE:

PROJECT SPECIFICATION

PROJECT NO	684-19108
SUB-PROJ #	1
LEAD ENGINEER	AMIN GHAFOORIPOUR
DESIGNED BY:	AMIN GHAFOORIPOUR HEYDAR ABBASI
DRAWN BY:	HEYDAR ABBASI
CHECKED BY:	AMIN GHAFOORIPOUR
AUTHORIZED BY:	AMIN GHAFOORIPOUR
FIELD:	CIVIL
DATE:	06/07/2020
DWG. NO.	684-DR-2- CI-1.2

GENERAL CSJ EROSION AND SEDIMENT CONTROL NOTES:

1. Contractor/Owner:
   It shall be the owner's responsibility to maintain control of the entire construction operation and to keep the entire site in compliance with the soil erosion control plan.

2. Civil Engineer: **AMIN GHAFOORIPOUR, 415-728-5259, President@Padir.US**
3. Construction Superintendent:

Contractor:

4. This plan is intended to be used for interim erosion and sediment control only and is not to be used for final elevations or permanent improvements.

5. Developer will submit to the City monthly (at the first of each month between Oct 1st and April 30th) certifications that all erosion/sediment measures identified on the approved erosion control plan are in place. If measures are not in place, Developer shall provide the City with a written explanation of why the measure is not in place and what will be done to remedy this situation.

6. Owner/contractor shall be responsible for monitoring erosion and sediment control measures prior, during, and after storm events.

7. Reasonable care shall be taken when hauling any earth, sand, gravel, stone, debris, paper or any other substance over any public street, alley or other public place. Should any blow, spill, or track over and upon said public or adjacent private property, immediate remedy shall occur.

8. Sanitary facilities shall be maintained on the site.

9. During the rainy season, all paved areas shall be kept clear of earth material and debris. The site shall be maintained so as to minimize sediment laden runoff to any storm drainage system, including existing drainage swales and water courses.

10. Construction operations shall be carried out in such a manner that erosion and water pollution will be minimized. State and local laws concerning pollution abatement shall be complied with.

11. Contractor shall provide dust control as required by the appropriate federal, state and local agency requirements.

EROSION AND SEDIMENT CONTROL MEASURES

1. The facilities shown on this plan are designed to control erosion and sediment during the rainy season, October 1 to April 30. Facilities are to be operable prior to September 15 of any year. Grading operations during the rainy season which leave denuded slopes shall be protected with erosion control measures immediately following grading on the slopes.During the non-rainy season Best Management Practices (BMPs) must be implemented during construction which includes, but is not limited to: stabilized construction entrance, tire wash area and inlet protection.

2. This plan covers only the first winter following grading with assumed site conditions as shown on the Erosion Control Plan. Prior to September 15, the completion of site improvement shall be evaluated and revisions made to this plan as necessary with the approval of the City Engineer. Plans are to be resubmitted for city approval prior to September 1 of each subsequent year until site improvements are accepted by the City.

3. Construction entrances shall be installed prior to commencement of grading. All construction traffic entering onto the paved roads must cross the stabilized construction entrance ways. (Also include this note on grading plans.)

4. Contractor shall maintain stabilized entrance at each vehicle access point to existing paved streets. Any mud or debris tracked onto public streets shall be removed daily and as required by the City.

5. If hydroseeding is not used or is not effective by 09/23, then other immediate methods shall be implemented, such as Erosion control Blankets, or a three-step application of 1) seed, mulch, fertilizer 2) blown straw 3) tackifier and mulch.

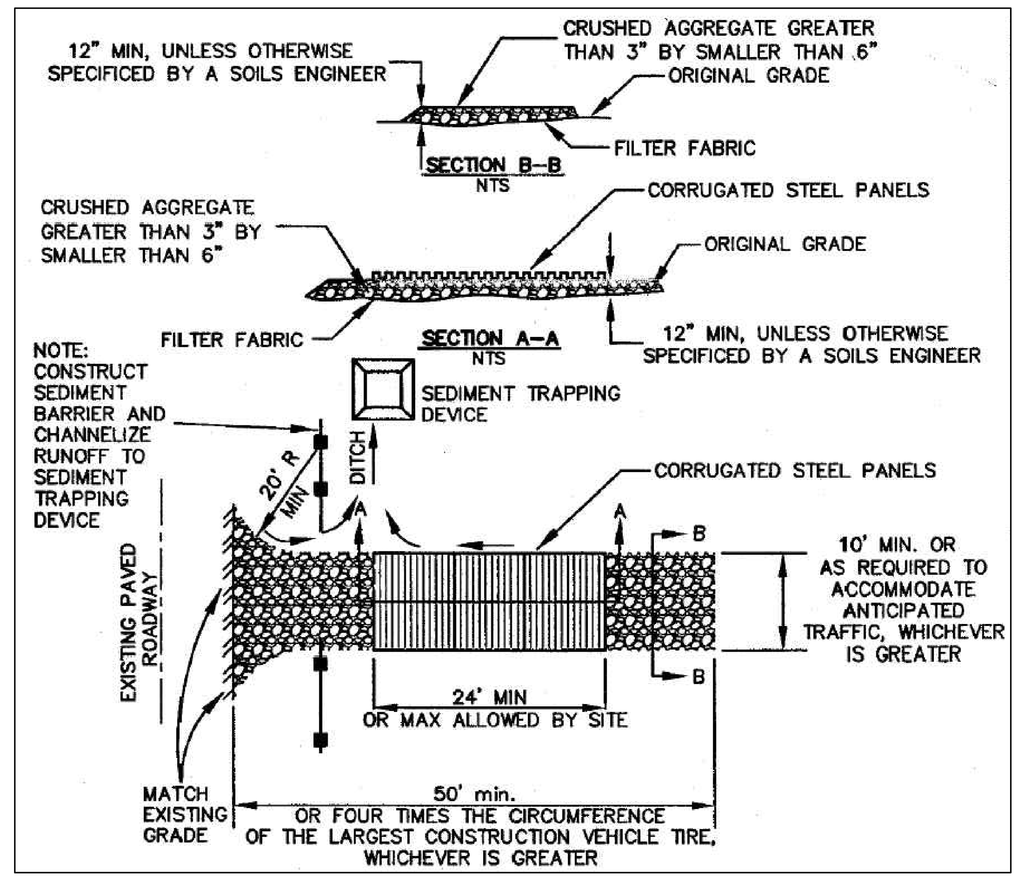
6. Inlet protection shall be installed at open inlets to prevent sediment from entering the storm drain system. Inlets not used in conjunction with erosion control are to be blocked to prevent entry of sediment.

7. Lots with houses under construction will not be hydroseeded. Erosion protection for each lot with a house under construction shall conform to the Typical Lot Erosion Control Detail shown on this sheet.

8. This erosion and sediment control plan may not cover all the situations that may arise during construction due to unanticipated field conditions. Variations and additions may be made to this plan in the field. Notify the City Representative of any field changes.

Maintenance Notes

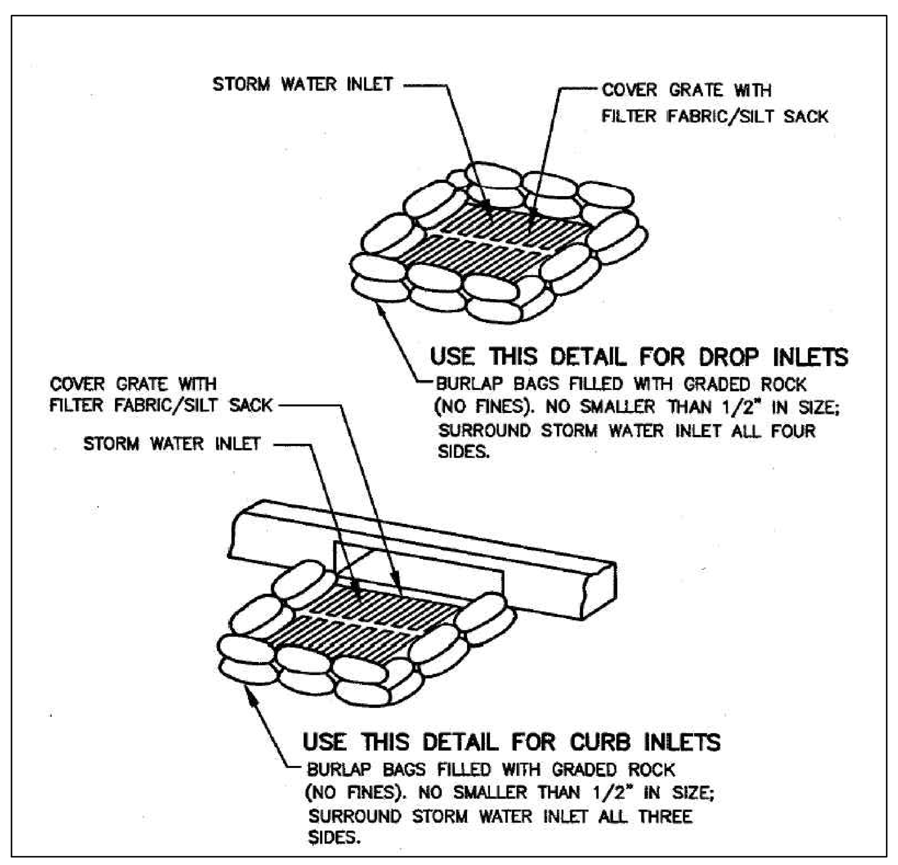
1. Maintenance is to be performed as follows:
   A. Repair damages caused by soil erosion or construction at the end of each working day.
   B. Swales shall be inspected periodically and maintained as needed.
   C. Sediment traps, berms, and swales are to be inspected after each storm and repairs made as needed.
   D. Sediment shall be removed and sediment trap restored to its original dimensions when sediment has accumulated to a depth of 1 foot.
   E. Sediment removed from trap shall be deposited in a suitable area and in such a manner that it will not erode.
   F. Rills and gullies must be repaired.
2. Sand bag inlet protection shall be cleaned out whenever sediment depth is one half the height of one sand bag.



DESIGN AND CONSTRUCTION SPECIFICATIONS

1. THE MATERIAL FOR CONSTRUCTION OF THE PAD SHALL BE 3" TO 5" ROCK COMPACTED TO 90%.
2. THE THICKNESS OF THE PAD SHALL NOT BE LESS THAN 12 INCHES.
3. THE WIDTH OF THE PAD SHALL NOT BE LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
4. THE LENGTH OF THE PAD SHALL BE AS REQUIRED, BUT NOT LESS THAN 50 FEET.
5. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FFLOWING OF SEDIMENT ONTO PUBLIC RIGHTS–OF–WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDTIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS–OF–WAY SHALL BE REMOVED IMMEDIATELY.
6. WHEN NECESSARY, WHEELS SHALL BE CLEANED OR REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS–OF–WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN, ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE THROUGH USE OF SAND BAGS, GRAVEL, BOARDS OR OTHER APPROVED METHODS.
7. GRAVEL ENTRANCE SHALL BE MAINTAINED YEAR ROUND.

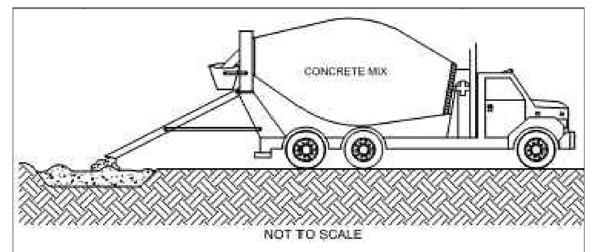
GRAVEL CONSTRUCTION DRIVEWAY



NOTES:

1. THICKNESS OF FILLED BAGS WHEN LAID SHALL NOT EXCEED 4".
2. ENSURE THERE ARE NO GAPS BETWEEN THE BAGS OR BETWEEN THE BAGS AND THE FACE OF OF CURB.
3. REMOVE ACCUMULATED SILT, AND DEBRIS BEFORE IT EXCEEDS 2" THICK IN THE GUTTER.
4. INSPECT INLET PROTECTION DAILY DURING EXTENDED RAINFALL PERIODS AND BEFORE AND AFTER EACH RAIN EVENT.
5. INLET PROTECTION SHALL BE MAINTAINED YEAR ROUND.
6. FILTER FABRIC/SILT SACK SHALL BE INSPECTED AT LEAST ONCE A WEEK AND KEPT CLEAR OF DEBRIS.

BURLAP SACK DRAIN INLET SEDIMENT FILTER DETAIL (IF REQUIRED)



DESCRIPTION

PREVENT OR REDUCE THE DISCHARGE OF POLLUTANTS TO STORM WATER FROM CONCRETE WASTE BY CONDUCTING WASHOUT OFF-SITE, PERFORMING ON-SITE WASHOUT IN A DESIGNATED AREA, AND TRAINING EMPLOYEES AND SUBCONTRACTORS.

APPROACH

THE FOLLOWING STEPS WILL HELP REDUCE STORM WATER POLLUTION FROM CONCRETE WASTES:

- STORE DRY AND WET MATERIALS UNDER COVER, AWAY FROM DRAINAGE AREAS.
- AVOID MIXING EXCESS AMOUNTS OF FRESH CONCRETE OR CEMENT ON-SITE.
- PERFORM WASHOUT OF CONCRETE TRUCKS OFF SITE OR IN DESIGNATED AREAS ONLY.
- DO NOT WASH OUT CONCRETE TRUCKS INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS.
- DO NOT ALLOW EXCESS CONCRETE TO BE DUMPED ON-SITE, EXCEPT IN DESIGNATED AREAS.
- FOR ON-SITE WASHOUT:
- LOCATE WASHOUT AREA AT LEAST 50' FROM STORM DRAINS, OPEN DITCHES, OR WATER BODIES. DO NOT ALLOW RUNOFF FROM THIS AREA BY CONSTRUCTING A TEMPORARY PIT OR BERMED AREA LARGE ENOUGH FOR LIQUID AND SOLID WASTE.
- WASH OUT WASTES INTO THE TEMPORARY PIT WHERE THE CONCRETE CAN SET, BE BROKEN UP, AND THEN DISPOSED OF PROPERLY.
- WHEN WASHING CONCRETE TO REMOVE FINE PARTICLES AND EXPOSE THE AGGREGATE, AVOID CREATING RUNOFF BY DRAINING THE WATER TO A BERMED OR LEVEL AREA.
- DO NOT WASH SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE INTO THE STREET OR STORM DRAIN. COLLECT AND RETURN SWEEPINGS TO AGGREGATE BASE STOCK PILE, OR DISPOSE IN THE TRASH.

(5) CONCRETE WASHOUT

Fresh Concrete and Mortar Application

Who should use this information?

- Masons and Bricklayers
- Sidewalk Construction Crews
- Patio Construction Workers
- Construction Inspectors
- General Contractors
- Home Builders
- Developers
- Concrete Delivery/Pumping Workers

Storm Drain Pollution from Fresh Concrete And Mortar Applications

Fresh concrete and cement-related mortars that wash into lakes, streams, or estuaries are toxic to fish and the aquatic environment. Disposing of these materials to the storm drains or creeks can block storm drains, causes serious problems, and is prohibited by law.

Doing the Job Right
General Business Practices

- Wash out concrete mixers only in designated wash-out areas in your yard, away from storm drains and waterways, where the water will flow into a temporary waste pit in a dirt area. Let water percolate through soil and dispose of settled, hardened concrete as garbage. Whenever possible, recycle washout by pumping back into mixers for reuse.
- Wash out chutes onto dirt areas at site that do not flow to streets or drains.
- Always store both dry and wet materials under cover, protected from rainfall and runoff and away from storm drains or waterways. Protect dry materials from wind.
- Secure bags of cement after they are open. Be sure to keep wind-blown cement powder away from streets, gutters, storm drains, rainfall, and runoff.
- Do not use diesel fuel as a lubricant on concrete forms, tools, or trailers.

During Construction

- Don't mix up more fresh concrete or cement than you will use in a two-hour period.
- Set up and operate small mixers on tarps or heavy plastic drop cloths.
- When cleaning up after driveway or sidewalk construction, wash fines onto dirt areas, not down the driveway or into the street or storm drain.
- Protect applications of fresh concrete and mortar from rainfall and runoff until the material has dried.
- Wash down exposed aggregate concrete only when the wash water can (1) flow onto a dirt area; (2) drain onto a bermed surface from which it can be pumped and disposed of properly; or (3) be vacuumed from a catchment created by blocking a storm drain inlet. If necessary, divert runoff with temporary berms. Make sure runoff does not reach gutters or storm drains.
- When breaking up pavement, be sure to pick up all the pieces and dispose of properly. Recycle large chunks of broken concrete at a local recycling facility. Call the Sunnyvale Recycling Program at (408) 730-7262 for information.
- Never bury waste material. Dispose of small amounts of excess dry concrete, grout, and mortar in the trash.
- Never dispose of washout into the street, storm drains, drainage ditches, or streams.

General Construction and Site Supervision

Who should use this information?

- General Contractors
- Site Supervisors
- Inspectors
- Home Builders
- Developers
- Homeowners

Storm Drain Pollution from Construction Activities

Construction sites are common sources of storm water pollution. Materials and wastes that blow or wash into a storm drain, gutter, or street have a direct impact on local creeks and the Bay.

As a contractor, or site supervisor, owner or operator of a site, you may be responsible for any environmental damage caused by your subcontractors or employees.

Doing the Job Right
General Principles

- Keep an orderly site and ensure good housekeeping practices are used.
- Maintain equipment properly.
- Cover materials when they are not in use.
- Keep materials away from streets, storm drains and drainage channels.
- Ensure dust control water doesn't leave site or discharge to storm drains.

Advance Planning To Prevent Pollution

- Schedule excavation and grading activities for dry weather periods. To reduce soil erosion, plant temporary vegetation or place other erosion controls before rain begins. Use the *Erosion and Sediment Control Field Manual*, available form the Regional Water Quality Control Board San Francisco Bay Region, as a reference.
- Control the amount of runoff crossing your site (especially during excavation!) by using berms or temporary or permanent drainage ditches to divert water flow around the site. Reduce stormwater runoff velocities by constructing temporary check dams or berms where appropriate.
- Train your employees and subcontractors. Make sure everyone who works at the construction site is familiar with this information. Inform subcontractors about the storm-water requirements and their own responsibilities. Use BAASMA, *Blueprint for a Clean Bay*, a construction best management practices guide available from the Santa Clara Valley Urban Runoff Pollution Prevention Program, and California Storm Water Quality Association Stormwater Best Management Practice Handbook: Construction; (Jan 2003) as references.

Good Housekeeping Practices

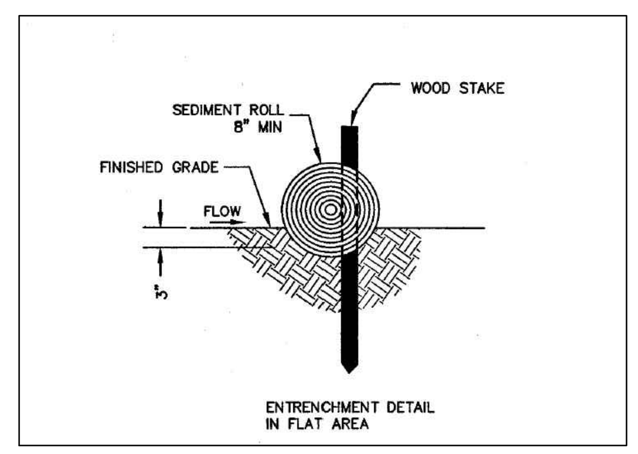
- Designate one area of the site for auto parking, vehicle refueling, and routine equipment maintenance. The designated area should be well away from streams or storm drain inlets, bermed if necessary. Make major repairs off site.
- Keep materials out of the rain – prevent runoff contamination at the source. Cover exposed piles of soil or construction materials with plastic sheeting or temporary roofs. Before it rains, sweep and remove materials from surfaces that drain to storm drains, creeks, or channels.
- Keep pollutants off exposed surfaces. Place trash cans and recycling receptacles around the site to minimize litter.
- Clean up leaks, drips and other spills immediately so they do not contaminate soil or groundwater or leave residue on paved surfaces.
- Never hose down "dirty" pavement or surfaces where materials have spilled.
- Use dry cleanup methods whenever possible. If you must use water, use just enough to keep the dust down.
- Cover and maintain dumpsters. Check frequently for leaks. Place dumpsters under roofs or cover with tarps or plastic sheeting secured around the outside of the dumpster. Never clean out a dumpster by hosing it down on the construction site.
- Place portable toilets away from storm drains. Make sure portable toilets are in good working order. Check frequently for leaks.

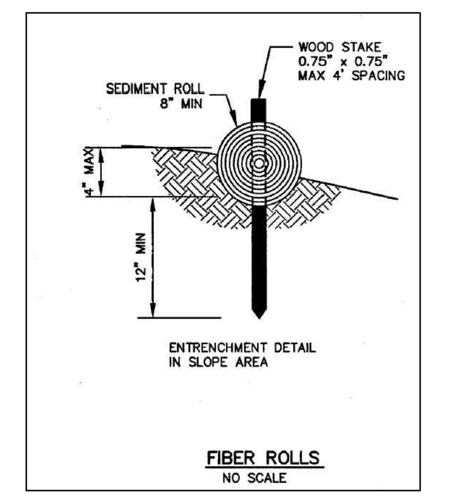
Materials/Waste Handling

- Practice Source Reduction – minimize waste when you order materials. Order only the amount you need to finish the job.
- Use recyclable materials whenever possible. Arrange for pick-up of recyclable materials such as concrete, asphalt, scrap metal, solvents, degreasers, cleared vegetation, paper, rock, and vehicle maintenance materials such as used oil, antifreeze, batteries, and tires.
- Dispose of all wastes properly. Many construction materials and wastes, including solvents, water-based paints, vehicle fluids, broken asphalt and concrete, wood, and cleared vegetation can be recycled. (See Sunnyvale Recycling Program information listed above.) Materials that cannot be recycled must be taken to an appropriate landfill or disposed of as hazardous waste. Never bury waste materials or leave them in the street or near a creek or stream bed.

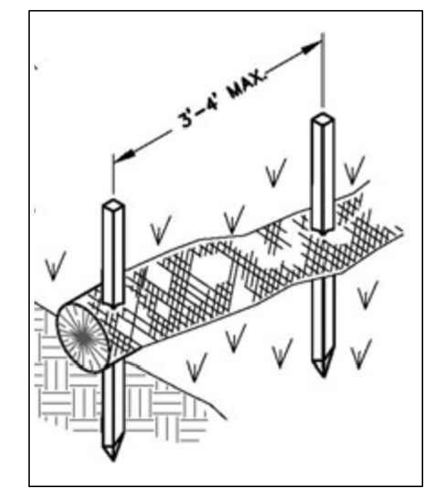
Permits

- In addition to local grading and building permits, you will need to obtain coverage under the State's General Construction Activity Stormwater Permit if your construction site's disturbed area totals 1 acre or more. Information on the General Permit can be obtained from the Regional Water Quality Control Board.





FIBER ROLLS
NO SCALE



9"X25' STRAW WADDLE

STAKE 0.75"X0.75"XMIN. 24"

STRAW WADDLE AND STAKING DETAIL

BMP SUMMARY TABLE	
BMP CATEGORY	BMP USED
EROSION CONTROL	STRAW WADDLE STAKED TO GRADE FOR DRAINAGE AND EROSION CONTROL DURING CONSTRUCTION
SEDIMENT CONTROL	N/A
GOOD SITE MANAGEMENT	N/A
NON-STORMWATER MANAGEMENT	N/A
RUN-ON AND RUN-OFF CONTROL	N/A
ACTIVE TREATEMENT SYSTEMS	N/A

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REGISTERED PROFESSIONAL ENGINEER
DR. AMIN GHAFOORIPOUR
C84986
Exp. 3/31/22
CIVIL
STATE OF CALIFORNIA

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PROJECT TITLE:

COMMON INTEREST DEVELOPMENT
GRADING AND DRAINAGE
547 Runnymede St, East Palo Alto, CA 94303

REVISION	DESCRIPTION	DATE
D0	APPLICATION FOR PERMIT	06/07/2020

DRAWING TITLE:

WASTE MANAGEMENT, SEDIMENT, EROSION CONTROL

PROJECT NO	684–19108
SUB–PROJ #	1
LEAD ENGINEER	AMIN GHAFOORIPOUR
DESIGNED BY:	AMIN GHAFOORIPOUR HEYDAR ABBASI
DRAWN BY:	HEYDAR ABBASI
CHECKED BY:	AMIN GHAFOORIPOUR
AUTHORIZED BY:	AMIN GHAFOORIPOUR
FIELD:	CIVIL
DATE:	06/07/2020

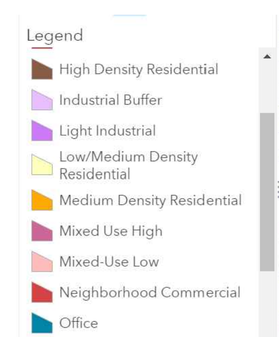
DWG. NO.
684-DR-2-
CI-1.3

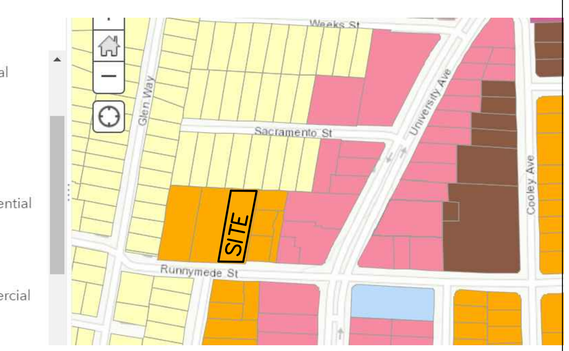
LEGEND

- BUILDING
- FENCE LINE
- CURB LINE
- PROPERTY LINE
- PROPOSED PROPERTY LINE
- EXISTING LOT LINE
- DOMESTIC WATER LINE
- FIRE WATER LINE
- COMMUNICATION LINE
- ELECTRIC LINE
- GAS LINE
- WATER LINE
- JOINT UTILITY LINE
- SANITARY SEWER LINE
- STORM DRAIN LINE
- STREET LIGHT LINE

VICINITY NOT TO SCALE

VICINITY NOT TO SCALE





VICINITY NOT TO SCALE

NOTES:

1. RECORD INFORMATION TAKEN FROM TITLE REPORT
2. TOPOGRAPHIC BASE MAP PREPARED BY BAYLAND CONSULTING
3. CONTOUR INTERVAL=1.00 FOOT
4. NO PUBLIC AREAS ARE PROPOSED
5. STREET IMPROVEMENTS PER CITY OF EAST PALO ALTO STANDARDS
6. ALL TREES ON SITE TO BE REMOVED
7. GROUPED METERS SUBJECT TO APPROVAL

UTILITIES:
CABLE TELEVISION: COMCAST
ELECTRIC/GAS: PG&E
FLOOD CONTROL: SAN MATEO COUNTY
SANITARY SEWER: CITY OF EAST PALO ALTO
STORM DRAIN: CITY OF EAST PALO ALTO
TELEPHONE: AT&T
WATER SUPPLY: CITY OF EAST PALO ALTO

BAYLAND CONSULTING
ENGINEER/SURVEYOR:
BAY LAND CONSULTING
LAND SURVEYORS/CIVIL ENGINEERS
PO BOX 299
Santa Clara, California 95051
Ph: (408) 296-6000

BASIS OF ELEVATIONS
CITY OF EAST PALO ALTO BM NO. 1
SAME AS S.C.V.W.D. BM 455
BRASS DISC AT S/W CORNER
WOODLAND AVE @ UNIVERSITY AVE
ELEVATION= 37.19 NAVD'88

SURVEYOR'S STATEMENT:
THIS MAP WAS PREPARED BY ME OR UNDER MY SUPERVISION FOR SC DESIGN GROUP
11/21/19
KENNETH M. ANDERSON, LS 7523
LICENCE RENEWAL DATE: 12-31-21
DATE: 10-8-2019

LICENSED LAND SURVEYOR KENNETH M. ANDERSON No. 7523 STATE OF CALIFORNIA

BASIS OF BEARINGS
CENTERLINE OF BIZZEL STREET AS SHOWN ON RECORD OF SURVEY FILED IN BOOK 15 OF MAPS, PAGE 21 SAN MATEO COUNTY RECORDS

TOPOGRAPHY

GENERAL SITE PLAN
PROPOSED RESIDENTIAL CONDOMINIUM
COMMON INTEREST DEVELOPEMENT
547 Runnymede St, East Palo Alto, CA 94303

LEGEND:

EXISTING	(Symbol Size May Vary)	PROPOSED
	PROPERTY BOUNDARY	
	LOT LINE	
	CURB & GUTTER	
	STORM DRAIN	
	SWALE	
	FENCE LINE	
DW	DOMESTIC WATER LINE	DW
FW	FIRE WATER LINE	FW
	COMMUNICATION LINE	
	ELECTRIC LINE	
	GAS LINE	
	WATER LINE	
	JOINT UTILITY LINE	
	SANITARY SEWER LINE	
	STORM DRAIN LINE	
	STREET LIGHT LINE	
	CUT / FILL TRANSITION	
△	CITY STANDARD CURB INLET	▲
□	FIELD INLET / FLAT GRATE INLET	■
	AREA DRAIN	
◎	STORM MANHOLE	◎
	DIRECTION OF SURFACE DRAINAGE	
	OVERLAND RELEASE	
10	CONTOUR	10
	LIMIT OF GRADING	
	RETAINING WALL	
WV	WATER SHUT OFF VALVE	WV

ABBREVIATION:

BOW	BOTTOM OF WALL	PVC	Poly Vinyl Chloride
BW	BACK OF WALL ELEV.	PUE	Public Utility Easement
BOP	BOTTOM OF PIPE	PVC	Polyvinyl Chloride
CI	CURB INLET	RCP	Reinforced Concrete Pipe
CL	Center Line	RG	Rough Grade
CS	Concrete Surface	R/W	Right-of-Way
DS	DOWNSPOUT	S	SLOPE
FF	Finished Floor	SD	Storm Drain
FL	Flow Line	SDMH	Storm Drain Manhole
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GB	Grade Break	TCM	Treatment Control Measure
GS	Garage Slab	TDC	Top of Depressed Curb
HM	Hydromodification	TVC	Top of Vertical Curb
HP	High Point	TOW	TOP OF WALL
LP	Low Point	FFL	FINISH FLOOR LEVEL
PL	Property Line	T.O.S.	TOP OF SIDE WALK

DEMOLITION KEY NOTE:

1 REMOVE/TRIM THE EXISTING SLAB EDGE PREPARATION FOR REPAIR OF THE PAVEMENT

2 PERMIT/INVESTIGATION/COORDINATION FOR REMOVAL/REPLACEMENT/TRIMING OF THE TREE FOR THIS CASE IS REQUIRED

DEMOLITION NOTES

1. CONTRACTOR SHALL COORDINATE WITH PG&E TO DISCONNECT AND REMOVE ELECTRICAL AND GAS SERVICE(S) BEFORE THE START OF DEMOLITION WORK.
2. CONTRACTOR SHALL COORDINATE THIS SHEET WITH JOINT TRENCH INTENT DRAWINGS AND STREET LIGHTING DRAWINGS, BEFORE THE START OF DEMOLITION WORK.
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6. CONTRACTOR SHALL REMOVE ALL IRRIGATION LINES AND APPURTENANCES, WHETHER INDICATED ON THIS PLAN OR NOT.
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12. PLUG OR CAP DEMOLISHED UTILITIES WHERE REQUIRED.
13. ADJUST EXISTING UTILITY VALVES, VAULTS, ETC., TO REMAIN TO FUTURE FINISHED GRADE.

NOTES:

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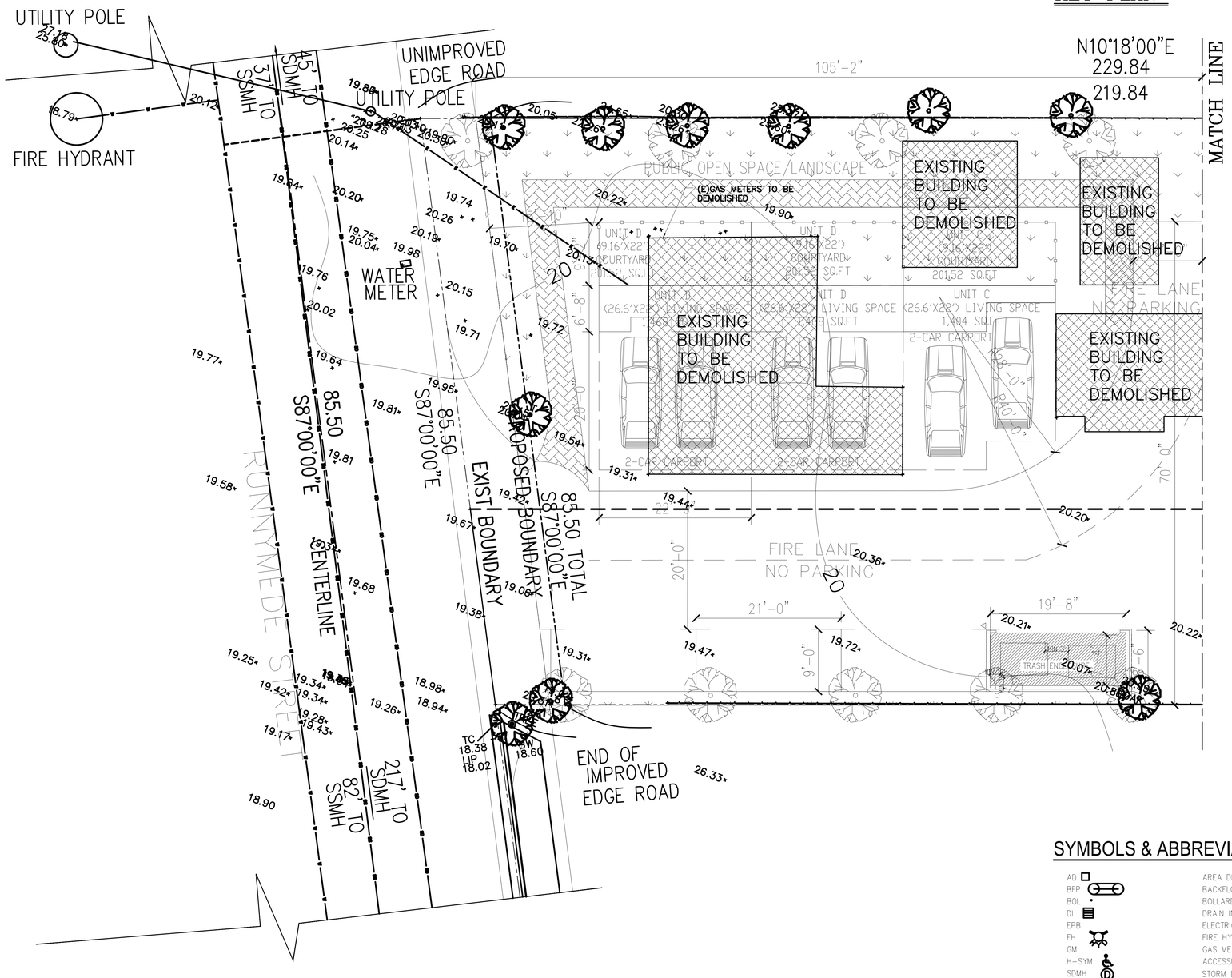
3– FOR THE REMOVAL OF THE TREES CONTRACTOR SHOULD COORDINATE WITH THE ARCHITECT AND LANDSCAPE DESIGNER OF THE PROJECT.

BASIS OF BEARING

FOR THE BEARING PLEASE SEE THE SURVEYING MAP PREPARED BY KENNETH M.ANDERSON AS THE PRELIMINARY DRAWING. SURVEYORS CONFIRMATION ON THE GIVEN DATA PRIOR TO CONSTRUCTION IS REQUIRED AND NO EARTHWORK IS ALLOWED PRIOR TO THE SURVEYORS CONFIRMATION. SEE BENCHMARK NOTE ON THE SURVEYING MAP.



KEY PLAN

SYMBOLS & ABBREVIATIONS

AD	AREA DRAIN
BFP	BACKFLOW PREVENTER
BOL	BOLLARD
DI	DRAIN INLET
EPB	ELECTRIC PULLBOX
FH	FIRE HYDRANT
GM	GAS METER
H-SYM	ACCESSIBLE SYMBOL
SDMH	STORM DRAIN MANHOLE
SIGN	SIGN
SSMH	SANITARY SEWER MANHOLE
STL	LIGHT, STREET LIGHT
TRANS	TRANSFORMER
VLT	VAULT
WPB	WATER PULLBOX
WV	WATERVALVE
MISC-MH	MISCELLANEOUS MANHOLE

EXISTING CONDITION AND PROPOSED PLAN
GEOMETRIC DESIGN PART A

SC. 1/8"=1'

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REGISTERED PROFESSIONAL ENGINEER
DR. AMIN GHAFOORIPOUR
C84986
Exp. 3/31/22
CIVIL
STATE OF CALIFORNIA

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PROJECT TITLE:

COMMON INTEREST DEVELOPMENT
GRADING AND DRAINAGE
547 Runnymede St, East
Palo Alto, CA 94303

REVISION	DESCRIPTION	DATE
D0	APPLICATION FOR PERMIT	06/07/2020

DRAWING TITLE:

EXISTING CONDITION AND PROPOSED PLAN GEOMETRIC DESIGN PART A

PROJECT NO	684-19108
SUB-PROJ #	1
LEAD ENGINEER	AMIN GHAFOORIPOUR
DESIGNED BY:	AMIN GHAFOORIPOUR HEYDAR ABBASI
DRAWN BY:	HEYDAR ABBASI
CHECKED BY:	AMIN GHAFOORIPOUR
AUTHORIZED BY:	AMIN GHAFOORIPOUR
FIELD:	CIVIL
DATE:	06/07/2020
DWG. NO.	684-DR-2- CI-3.1

LEGEND:

EXISTING	(Symbol Size May Vary)	PROPOSED
	PROPERTY BOUNDARY	
	LOT LINE	
	CURB & GUTTER	
	STORM DRAIN	
	SWALE	
	FENCE LINE	
DW	DOMESTIC WATER LINE	DW
FW	FIRE WATER LINE	FW
	COMMUNICATION LINE	
	ELECTRIC LINE	
	GAS LINE	
	WATER LINE	
	JOINT UTILITY LINE	
	SANITARY SEWER LINE	
	STORM DRAIN LINE	
	STREET LIGHT LINE	
	CUT / FILL TRANSITION	
△	CITY STANDARD CURB INLET	▲
□	FIELD INLET / FLAT GRATE INLET	■
	AREA DRAIN	
◎	STORM MANHOLE	◎
	DIRECTION OF SURFACE DRAINAGE	
	OVERLAND RELEASE	
10	CONTOUR	10
	LIMIT OF GRADING	
	RETAINING WALL	
WV	WATER SHUT OFF VALVE	WV

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FF	Finished Floor	SD	Storm Drain
FL	Flow Line	SDMH	Storm Drain Manhole
FG	FLOOR GRADE	TC	Top of Curb
GB	Grade Break	TCM	Treatment Control Measure
GS	Garage Slab	TDC	Top of Depressed Curb
HM	Hydromodification	TVC	Top of Vertical Curb
HP	High Point	TOW	TOP OF WALL
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PL	Property Line	T.O.S.	TOP OF SIDE WALK

DEMOLITION KEY NOTE:

1 REMOVE/TRIM THE EXISTING SLAB EDGE PREPARATION FOR REPAIR OF THE PAVEMENT

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DEMOLITION NOTES

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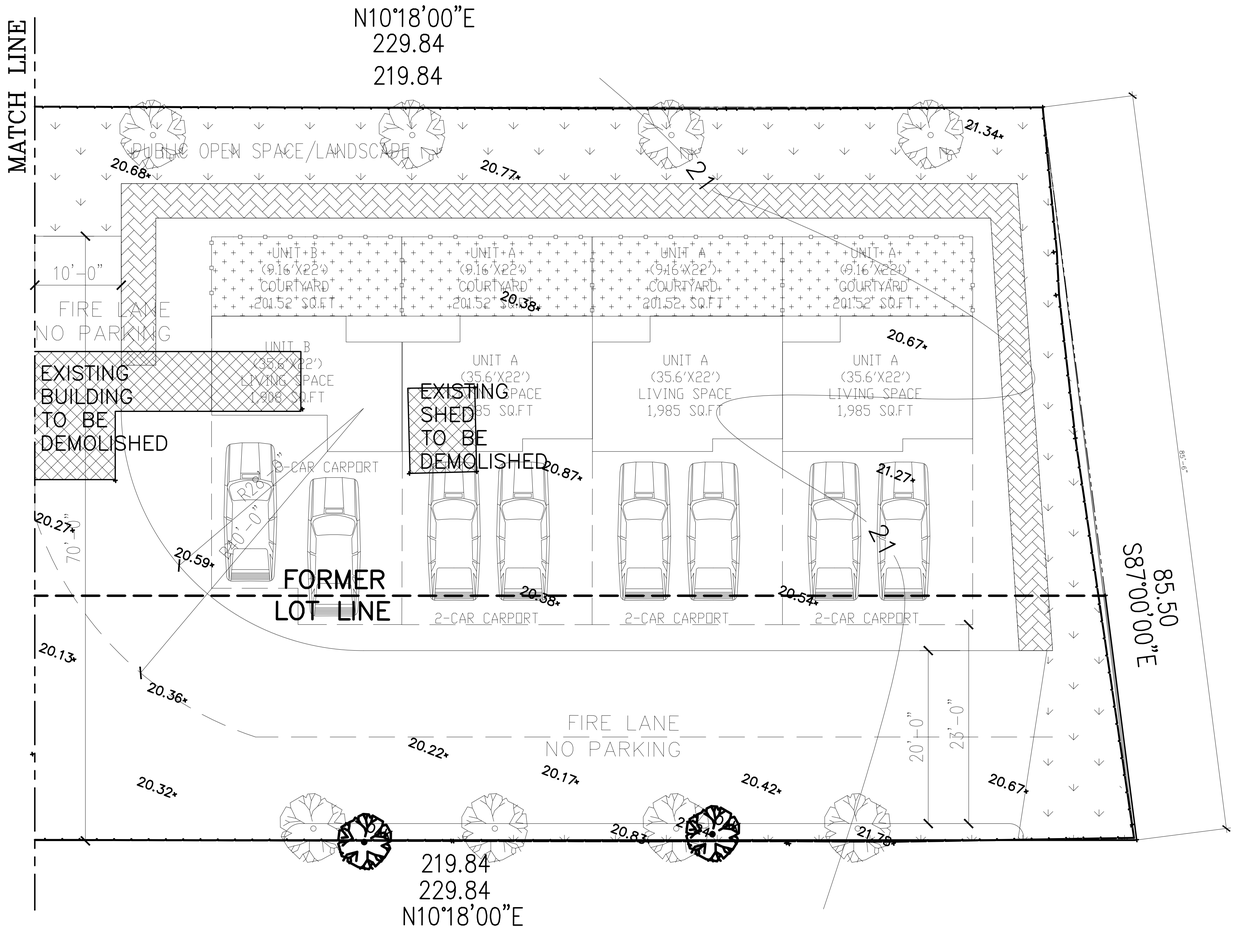
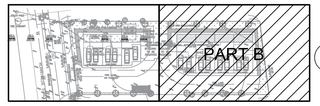
BASIS OF BEARING

FOR THE BEARING PLEASE SEE THE SURVEYING MAP PREPARED BY KENNETH M.ANDERSON AS THE PRELIMINARY DRAWING. SURVEYORS CONFIRMATION ON THE GIVEN DATA PRIOR TO CONSTRUCTION IS REQUIRED AND NO EARTHWORK IS ALLOWED PRIOR TO THE SURVEYORS CONFIRMATION. SEE BENCHMARK NOTE ON THE SURVEYING MAP.



EXISTING CONDITION AND PROPOSED PLAN

SC. GEOMETRIC DESIGN PART B 1/8"=1'



KEY PLAN

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PROJECT TITLE:

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GRADING AND DRAINAGE
547 Runnymede St, East
Palo Alto, CA 94303

REVISION	DESCRIPTION	DATE
00	APPLICATION FOR PERMIT	06/07/2020

DRAWING TITLE:

EXISTING CONDITION AND PROPOSED PLAN GEOMETRIC DESIGN PART B

PROJECT NO	684-19108
SUB-PROJ #	1
LEAD ENGINEER	AMIN GHAFOORIPOUR
DESIGNED BY:	AMIN GHAFOORIPOUR HEYDAR ABBASI
DRAWN BY:	HEYDAR ABBASI
CHECKED BY:	AMIN GHAFOORIPOUR
AUTHORIZED BY:	AMIN GHAFOORIPOUR
FIELD:	CIVIL
DATE:	06/07/2020

DWG. NO.
684-DR-2-
CI-3.2

LEGEND:

EXISTING	(Symbol Size May Vary)	PROPOSED
	PROPERTY BOUNDARY	
	LOT LINE	
	CURB & GUTTER	
	STORM DRAIN	
	SWALE	
	FENCE LINE	
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FW	FIRE WATER LINE	FW
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1. CONTRACTOR SHALL COORDINATE WITH PG&E TO DISCONNECT AND REMOVE ELECTRICAL AND GAS SERVICE(S) BEFORE THE START OF DEMOLITION WORK.
2. CONTRACTOR SHALL COORDINATE THIS SHEET WITH JOINT TRENCH INTENT DRAWINGS AND STREET LIGHTING DRAWINGS, BEFORE THE START OF DEMOLITION WORK.
3. CONTRACTOR SHALL COORDINATE WITH AT&T TO DISCONNECT AND REMOVE EXISTING TELECOMMUNICATIONS SERVICE.
4. CONTRACTOR SHALL COORDINATE WITH THE CITY TO DISCONNECT AND REMOVE EXISTING WATER SERVICE.
5. CONTRACTOR SHALL COORDINATE WITH COMCAST TO DISCONNECT AND REMOVE CATV SERVICE.
6. CONTRACTOR SHALL REMOVE ALL IRRIGATION LINES AND APPURTENANCES, WHETHER INDICATED ON THIS PLAN OR NOT.
7. ITEMS SHOWN TO BE REMOVED OR ABANDONED ARE INDICATED PER INFORMATION AVAILABLE TO THE ENGINEER. IT IS THE INTENTION OF THESE PLANS TO REMOVE OR ABANDON ALL ON-SITE EXISTING UTILITIES AND IMPROVEMENTS TO ALLOW CONSTRUCTION OF THE PROPOSED IMPROVEMENTS, WHETHER INDICATED ON PLANS OR NOT.
8. THE CONTRACTOR SHALL PROTECT EXISTING DRY UTILITY INSTALLATIONS, POLES, TRANSFORMERS, OVERHEAD LINES AND UTILITY VAULTS UNTIL THEY ARE REMOVED.
9. CONTRACTOR TO REFER TO EROSION CONTROL PLAN SHEET C6.0 FOR EROSION CONTROL, CONSTRUCTION GENERAL PERMIT (CGP) AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP) REQUIREMENTS.
10. IF CONTRACTOR ENCOUNTERS UTILITIES OR ANY OTHER ITEMS THAT ARE NOT SHOWN ON THIS PLAN, THEY ARE TO CONTACT THE ARCHITECT/ENGINEER PRIOR TO REMOVING UTILITY.
11. ALL DRY UTILITY REMOVAL SHALL BE COORDINATED WITH ELECTRICAL, MECHANICAL/PLUMBING AND JOINT TRENCH PLANS.
12. PLUG OR CAP DEMOLISHED UTILITIES WHERE REQUIRED.
13. ADJUST EXISTING UTILITY VALVES, VAULTS, ETC., TO REMAIN TO FUTURE FINISHED GRADE.

NOTES:

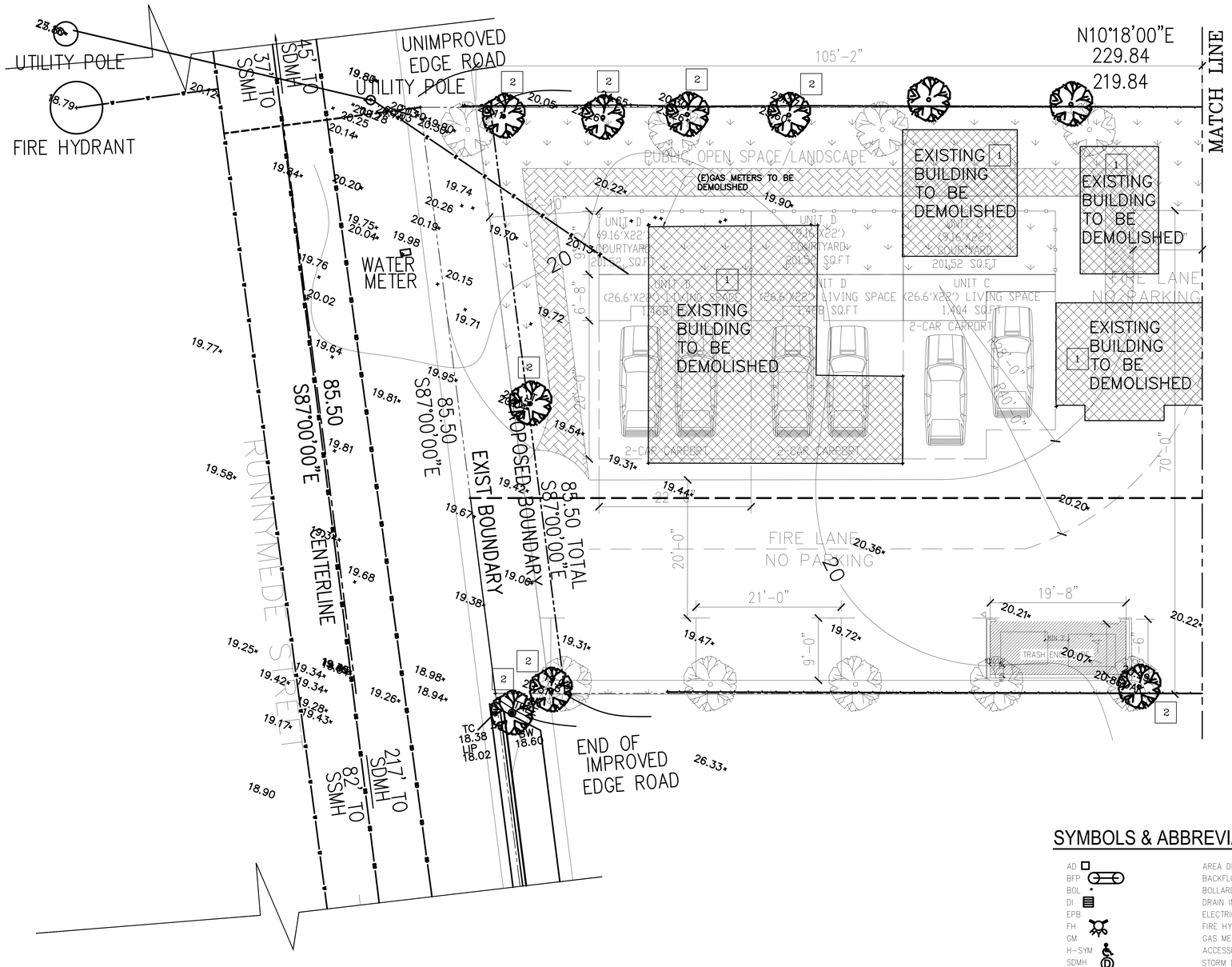
1– SURVEYORS CONFIRMATION ON THE GIVEN DATA PRIOR TO CONSTRUCTION IS REQUIRED AND NO EARTHWORK IS ALLOWED PRIOR TO THE SURVEYORS CONFIRMATION.

2– ANY TREE REMOVAL REQUIRES APPLICATION TO PERMIT AND CONTACTING THE CITY ARBORIST. THE SUGGESTED REMOVAL IN THIS DRAWING IS FOR THE GRADING DESIGN AND THE SOUL OF THIS DRAWING DOES NOT BEAR THE PERMISSION FOR ANY TREE REMOVAL.

3– FOR THE REMOVAL OF THE TREES CONTRACTOR SHOULD COORDINATE WITH THE ARCHITECT AND LANDSCAPE DESIGNER OF THE PROJECT.

BASIS OF BEARING

FOR THE BEARING PLEASE SEE THE SURVEYING MAP PREPARED BY KENNETH M.ANDERSON AS THE PRELIMINARY DRAWING. SURVEYORS CONFIRMATION ON THE GIVEN DATA PRIOR TO CONSTRUCTION IS REQUIRED AND NO EARTHWORK IS ALLOWED PRIOR TO THE SURVEYORS CONFIRMATION. SEE BENCHMARK NOTE ON THE SURVEYING MAP.



KEY PLAN

SYMBOLS & ABBREVIATIONS

AD	AREA DRAIN
BFP	BACKFLOW PREVENTER
BOL	BOLLARD
DI	DRAIN INLET
EPB	ELECTRIC PULLBOX
FH	FIRE HYDRANT
GM	GAS METER
H-SYM	ACCESSIBLE SYMBOL
SDMH	STORM DRAIN MANHOLE
SIGN	SIGN
SSMH	SANITARY SEWER MANHOLE
STL	LIGHT, STREET LIGHT
TRANS	TRANSFORMER
VLT	VAULT
WPB	WATER PULLBOX
WV	WATERVALVE
MISC-MH	MISCELLANEOUS MANHOLE

DEMOLITION AND TREE LOCATION/REMOVAL PLAN
GEOMETRIC DESIGN PART A

SC. 1/8"=1'

PADIR
CONSULTING ENGINEER
INNOVATIVE CIVL/STRUCTURAL ENG. SERVICES
CA-LICENSE # C-84986
415-728-5259
WWW.PADIR.US

REGISTERED PROFESSIONAL ENGINEER
DR. AMIN GHAFOORIPOUR
C84986
Exp. 3/31/22
CIVIL
STATE OF CALIFORNIA

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PROJECT TITLE:

COMMON INTEREST DEVELOPMENT
GRADING AND DRAINAGE
547 Runnymede St, East
Palo Alto, CA 94303

REVISION	DESCRIPTION	DATE
D0	APPLICATION FOR PERMIT	06/07/2020

DRAWING TITLE:

DEMOLITION AND TREE LOCATION/ REMOVAL PLAN PART A

PROJECT NO	684-19108
SUB-PROJ #	1
LEAD ENGINEER	AMIN GHAFOORIPOUR
DESIGNED BY:	AMIN GHAFOORIPOUR HEYDAR ABBASI
DRAWN BY:	HEYDAR ABBASI
CHECKED BY:	AMIN GHAFOORIPOUR
AUTHORIZED BY:	AMIN GHAFOORIPOUR
FIELD:	CIVIL
DATE:	06/07/2020
DWG. NO.	684-DR-2- CI-3.3

LEGEND:

EXISTING	(Symbol Size May Vary)	PROPOSED
	PROPERTY BOUNDARY	
	LOT LINE	
	CURB & GUTTER	
	STORM DRAIN	
	SWALE	
	FENCE LINE	
DW	DOMESTIC WATER LINE	DW
FW	FIRE WATER LINE	FW
	COMMUNICATION LINE	
	ELECTRIC LINE	
	GAS LINE	
	WATER LINE	
	JOINT UTILITY LINE	
	SANITARY SEWER LINE	
	STORM DRAIN LINE	
	STREET LIGHT LINE	
	CUT / FILL TRANSITION	
△	CITY STANDARD CURB INLET	▲
□	FIELD INLET / FLAT GRATE INLET	■
	AREA DRAIN	
◎	STORM MANHOLE	◎
	DIRECTION OF SURFACE DRAINAGE OVERLAND RELEASE	
10	CONTOUR	10
	LIMIT OF GRADING	
	RETAINING WALL	
WV	WATER SHUT OFF VALVE	WV

ABBREVIATION:

BOW	BOTTOM OF WALL	PVC	Poly Vinyl Chloride
BW	BACK OF WALL ELEV.	PUE	Public Utility Easement
BOP	BOTTOM OF PIPE	PVC	Polyvinyl Chloride
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CL	Center Line	RG	Rough Grade
CS	Concrete Surface	R/W	Right-of-Way
DS	DOWNSPOUT	S	SLOPE
FF	Finished Floor	SD	Storm Drain
FL	Flow Line	SDMH	Storm Drain Manhole
FG	FLOOR GRADE	TC	Top of Curb
GB	Grade Break	TCM	Treatment Control Measure
GS	Garage Slab	TDC	Top of Depressed Curb
HM	Hydromodification	TVC	Top of Vertical Curb
HP	High Point	TOW	TOP OF WALL
LP	Low Point	FFL	FINISH FLOOR LEVEL
PL	Property Line	T.O.S.	TOP OF SIDE WALK

DEMOLITION KEY NOTE:

1 REMOVE/TRIM THE EXISTING SLAB EDGE PREPARATION FOR REPAIR OF THE PAVEMENT

2 PERMIT/INVESTIGATION/COORDINATION FOR REMOVAL/REPLACEMENT/TRIMING OF THE TREE FOR THIS CASE IS REQUIRED

DEMOLITION NOTES

1. CONTRACTOR SHALL COORDINATE WITH PG&E TO DISCONNECT AND REMOVE ELECTRICAL AND GAS SERVICE(S) BEFORE THE START OF DEMOLITION WORK.
2. CONTRACTOR SHALL COORDINATE THIS SHEET WITH JOINT TRENCH INTENT DRAWINGS AND STREET LIGHTING DRAWINGS, BEFORE THE START OF DEMOLITION WORK.
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NOTES:

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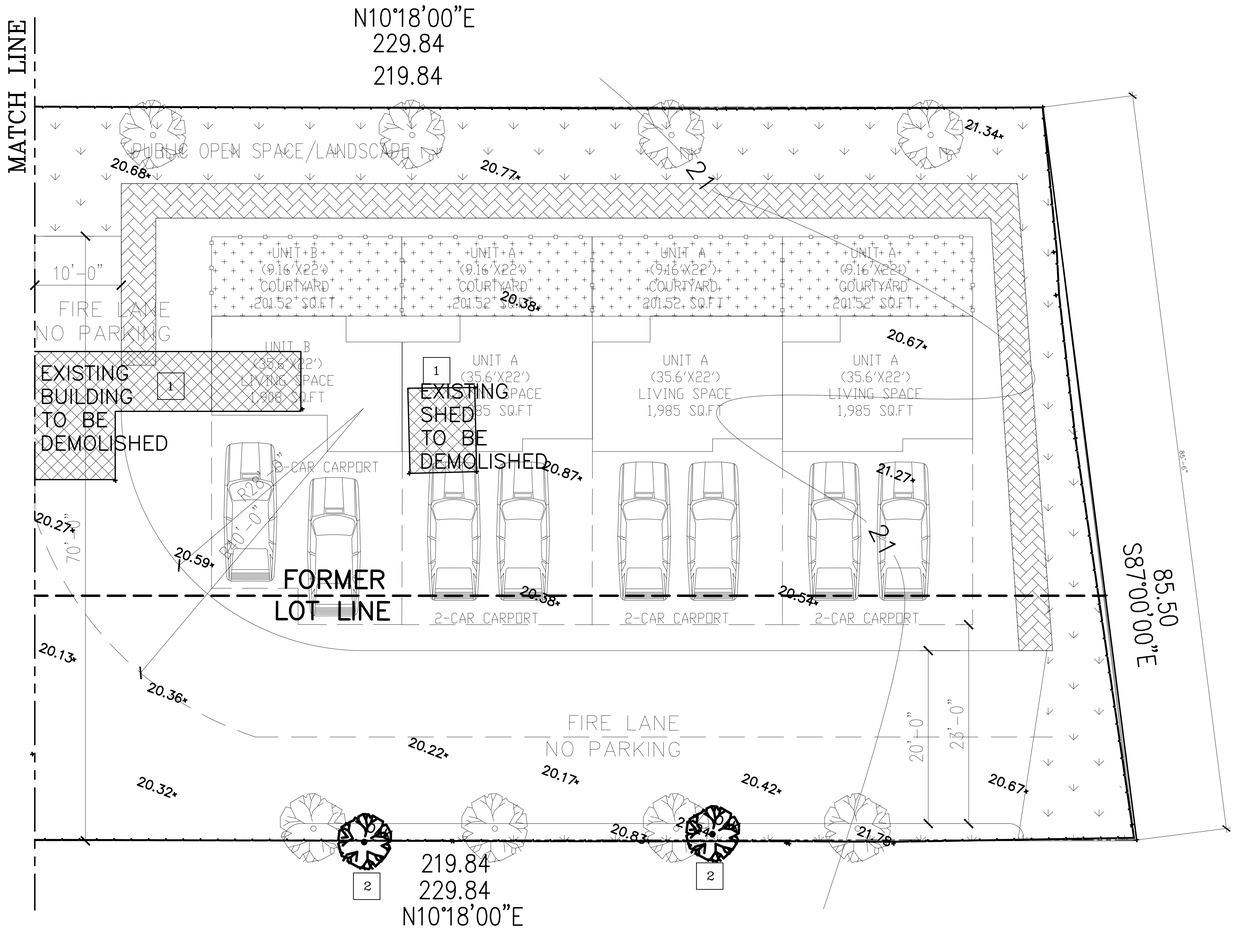

DEMOLITION AND TREE LOCATION/REMOVAL PLAN
GEOMETRIC DESIGN PART B

SC. 1/8"=1'

SYMBOLS & ABBREVIATIONS

AD	AREA DRAIN
BFP	BACKFLOW PREVENTER
BOL	BOLLARD
DI	DRAIN INLET
EPB	ELECTRIC PULLBOX
FH	FIRE HYDRANT
GM	GAS METER
H-SYM	ACCESSIBLE SYMBOL
SDMH	STORM DRAIN MANHOLE
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WPB	WATER PULLBOX
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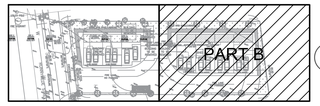

KEY PLAN

PADIR
CONSULTING ENGINEER
INNOVATIVE
CIVIL/STRUCTURAL ENG. SERVICES
CA-LICENSE # C-84986
415-728-5259
WWW.PADIR.US

REGISTERED PROFESSIONAL ENGINEER
DR. AMIN GHAFOORIPOUR
C84986
Exp. 3/31/22
CIVIL
STATE OF CALIFORNIA

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PROJECT TITLE:

COMMON INTEREST DEVELOPMENT
GRADING AND DRAINAGE
547 Runnymede St, East
Palo Alto, CA 94303

REVISION	DESCRIPTION	DATE
00	APPLICATION FOR PERMIT	06/07/2020

DRAWING TITLE:

DEMOLITION AND TREE LOCATION/ REMOVAL PLAN PART B

PROJECT NO	684-19108
SUB-PROJ #	1
LEAD ENGINEER	AMIN GHAFOORIPOUR
DESIGNED BY:	AMIN GHAFOORIPOUR HEYDAR ABBASI
DRAWN BY:	HEYDAR ABBASI
CHECKED BY:	AMIN GHAFOORIPOUR
AUTHORIZED BY:	AMIN GHAFOORIPOUR
FIELD:	CIVIL
DATE:	06/07/2020

DWG. NO.
684-DR-2-
CI-3.4

LEGEND:

EXISTING (Symbol Size May Vary)	PROPOSED
PROPERTY BOUNDARY	
LOT LINE	
CURB & GUTTER	
STORM DRAIN	
SWALE	
FENCE LINE	
DOMESTIC WATER LINE	DW
FIRE WATER LINE	FW
COMMUNICATION LINE	
ELECTRIC LINE	
GAS LINE	
WATER LINE	
JOINT UTILITY LINE	
SANITARY SEWER LINE	
STORM DRAIN LINE	
STREET LIGHT LINE	
CUT / FILL TRANSITION	
CITY STANDARD CURB INLET	
FIELD INLET / FLAT GRATE INLET	
AREA DRAIN	
STORM MANHOLE	
DIRECTION OF SURFACE DRAINAGE	
OVERLAND RELEASE	
CONTOUR	
LIMIT OF GRADING	
RETAINING WALL	
WATER SHUT OFF VALVE	WV

ABBREVIATION:

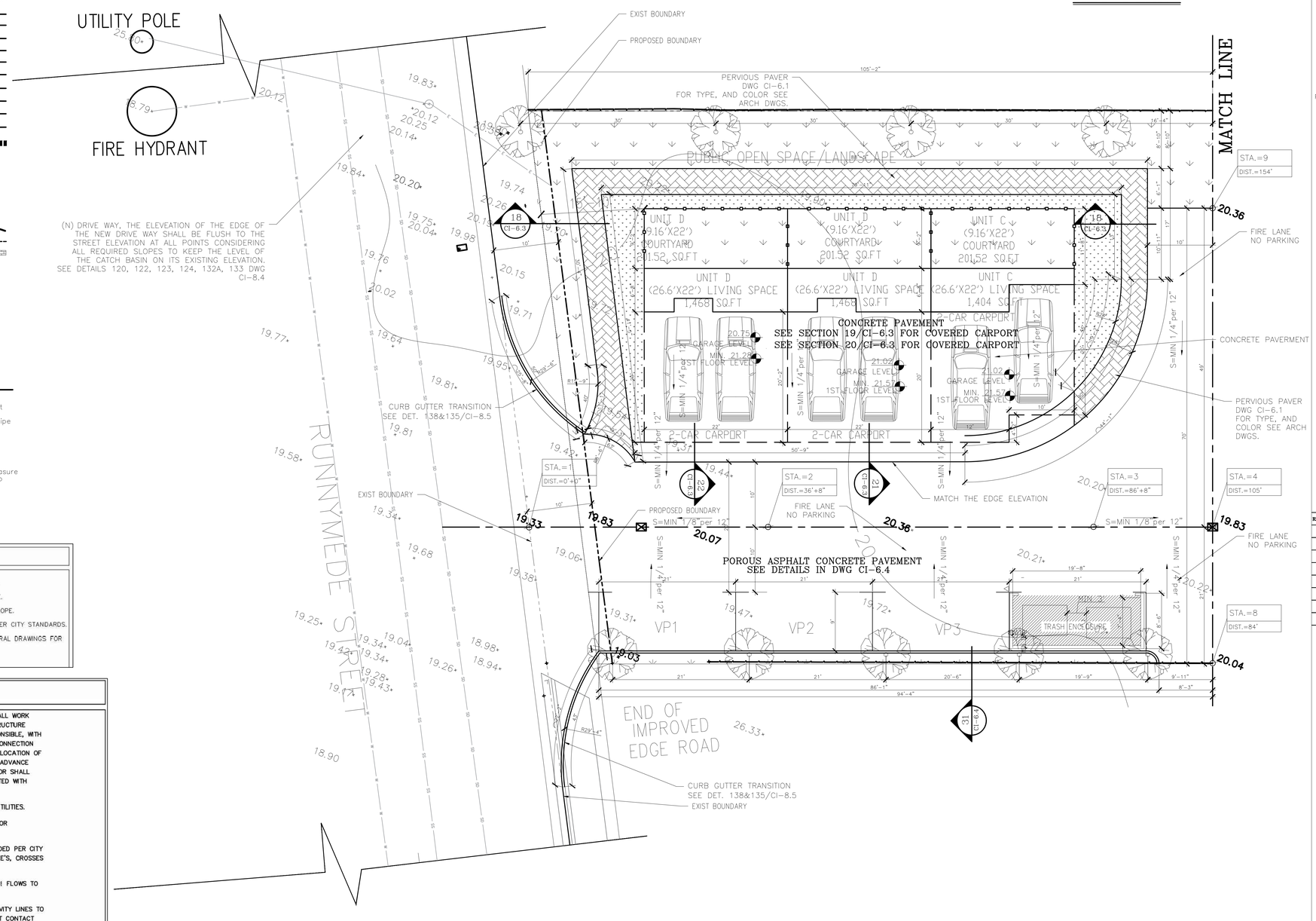
BOW	BOTTOM OF WALL	PVC	Poly Vinyl Chloride
BW	BACK OF WALL ELEV.	PUE	Public Utility Easement
BOP	BOTTOM OF PIPE	PVC	Polyvinyl Chloride
CI	CURB INLET	RCP	Reinforced Concrete Pipe
CL	Center Line	RG	Rough Grade
CS	Concrete Surface	R/W	Right-of-Way
DS	DOWNSPOUT	S	SLOPE
FF	Finished Floor	SD	Storm Drain
FL	Flow Line	SDMH	Storm Drain Manhole
FG	FLOOR GRADE	TC	Top of Curb
GB	Grade Break	TCM	Treatment Control Measure
GS	Garage Slab	TDC	Top of Depressed Curb
HM	Hydromodification	TVC	Top of Vertical Curb
HP	High Point	TOW	TOP OF WALL
LP	Low Point	FFL	FINISH FLOOR LEVEL
PL	Property Line	T.O.S.	TOP OF SIDE WALK

GRADING AND DRAINAGE NOTES

1. SEE LANDSCAPE DRAWINGS FOR PEDESTRIAN PAVING LAYOUT AND DETAILS.
2. ALL EXISTING UTILITIES TO REMAIN SHALL BE ADJUSTED TO FINISHED GRADE.
3. SEE LANDSCAPE DRAWINGS FOR GRADING BETWEEN PL AND BUILDING ENVELOPE.
4. ALL IMPROVEMENTS WITHIN CITY RIGHT-OF-WAY SHALL BE CONSTRUCTED PER CITY STANDARDS.
5. SEE STRUCTURAL DRAWINGS FOR EXTERIOR WALL DETAILS. SEE ARCHITECTURAL DRAWINGS FOR WATERPROOFING AND WALL DRAINAGE.
6. SEE ARCHITECTURAL PLANS BY OTHERS FOR GARAGE GRADING.

UTILITY NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND SCHEDULING ALL WORK WITH UTILITY COMPANIES INCLUDING INSPECTIONS, DISCONNECTIONS, INFRASTRUCTURE INSTALLATION AND FINAL SERVICE CONNECTIONS. THE CONTRACTOR IS RESPONSIBLE, WITH PG&E, FOR ALL ASPECTS OF THIS PROJECT INCLUDING ARRANGING FOR DISCONNECTION OF SERVICES, FOR SCHEDULING INSPECTIONS, OBTAINING SIGN-OFFS, AND RELOCATION OF SERVICES. CONTRACTOR SHALL BE AWARE THAT PG&E REQUIRES EXTENSIVE ADVANCE NOTIFICATION AND SHOULD SCHEDULE THEIR WORK ACCORDINGLY. CONTRACTOR SHALL NOT MAKE ANY CLAIMS FOR TIME DELAY DUE TO ANY PG&E WORK ASSOCIATED WITH THIS PROJECT.
2. PG&E LINES SHALL NOT BE INSTALLED IN THE SAME TRENCH AS ANY WET UTILITIES.
3. ELECTRICAL SHOWN FOR INFORMATION ONLY. REFER TO ELECTRICAL PLANS FOR CONSTRUCTION DETAILS.
4. SOIL IS EXTREMELY CORROSIVE AND CATHODIC PROTECTION SHALL BE PROVIDED PER CITY STANDARDS. ANODE TEST STATIONS SHALL BE PROVIDED AT ALL VALVES, TEE'S, CROSSES AND HYDRANTS.
5. ALL CATCH BASINS SHALL BE STAMPED WITH CITY STANDARDS "NO DUMPING! FLOWS TO BAY" PLAQUES.
6. CONTRACTOR TO CUT ENTIRE TRENCH PRIOR TO THE CONSTRUCTION OF GRAVITY LINES TO ENSURE ADEQUATE CLEARANCES WITH EXISTING UTILITIES. IF CONFLICTS EXIST CONTACT ENGINEER FOR REMEDY. (COVER OPEN TRENCH WITH STEEL PLATE AS NECESSARY)



KEY PLAN

PROPOSED PLAN
GEOMETRIC DESIGN PART A

SC. 1/8"=1'

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COMMON INTEREST DEVELOPMENT
GRADING AND DRAINAGE
547 Runnymede St, East
Palo Alto, CA 94303

REVISION	DESCRIPTION	DATE
00	APPLICATION FOR PERMIT	06/07/2020

DRAWING TITLE:

PROPOSED PLAN
GEOMETRIC DESIGN
PART A

PROJECT NO	684-19108
SUB-PROJ #	1
LEAD ENGINEER	AMIN GHAFOORIPOUR
DESIGNED BY:	AMIN GHAFOORIPOUR HEYDAR ABBASI
DRAWN BY:	HEYDAR ABBASI
CHECKED BY:	AMIN GHAFOORIPOUR
AUTHORIZED BY:	AMIN GHAFOORIPOUR
FIELD:	CIVIL
DATE:	06/07/2020

DWG. NO.
684-DR-2-
CI-4.1

LEGEND:

EXISTING	(Symbol Size May Vary)	PROPOSED
	PROPERTY BOUNDARY	
	LOT LINE	
	CURB & GUTTER	
	STORM DRAIN	
	SWALE	
	FENCE LINE	
DW	DOMESTIC WATER LINE	DW
FW	FIRE WATER LINE	FW
	COMMUNICATION LINE	
	ELECTRIC LINE	
	GAS LINE	
	WATER LINE	
	JOINT UTILITY LINE	
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	STREET LIGHT LINE	
	CUT / FILL TRANSITION	
△	CITY STANDARD CURB INLET	▲
□	FIELD INLET / FLAT GRATE INLET	■
	AREA DRAIN	
◎	STORM MANHOLE	◎
	DIRECTION OF SURFACE DRAINAGE	
	OVERLAND RELEASE	
10	CONTOUR	10
	LIMIT OF GRADING	
	RETAINING WALL	
WV	WATER SHUT OFF VALVE	WV

ABBREVIATION:

BOW	BOTTOM OF WALL	PVC	Poly Vinyl Chloride
BW	BACK OF WALL ELEV.	PUE	Public Utility Easement
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PL	Property Line	T.O.S.	TOP OF SIDE WALK

GRADING AND DRAINAGE NOTES

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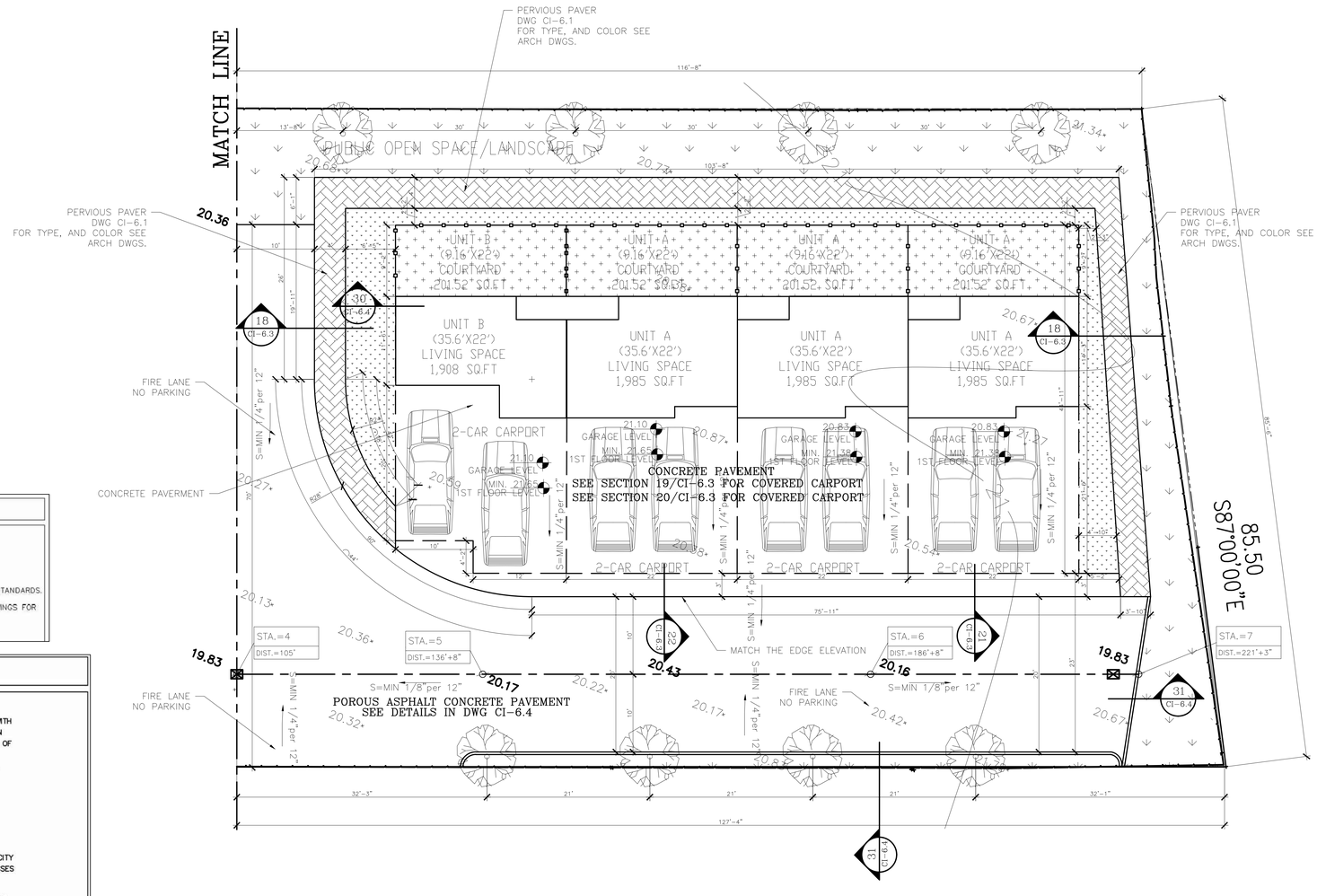
NOTES:

1. EARTHWORK NUMBERS ARE BASED ON NEAT LINE QUANTITIES AND DOES NOT FACTOR IN ANY SHRINKAGE ADJUSTMENTS. CONTRACTOR'S BID SHALL INCORPORATE SHRINKAGE BASED ON ACTUAL FIELD CONDITIONS AND GEOTECHNICAL RECOMMENDATIONS.
2. EARTHWORK QUANTITIES SHOWN ARE FOR PLANNING PURPOSES ONLY. CONTRACTOR SHALL PERFORM THEIR OWN EARTHWORK QUANTITY CALCULATION.

EARTH WORK QUANTITIES

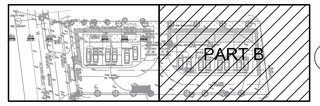
CUT:	604	CY
FILL:	608	CY
EXPORT:	604	CY
IMPORT:	608	CY

NOTE: EARTHWORK QUANTITIES SHOWN ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INDEPENDENTLY ESTIMATE QUANTITIES FOR HIS/HER OWN USE.



PROPOSED PLAN
GEOMETRIC DESIGN PART B

SC. 1/8"=1'



KEY PLAN

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GRADING AND DRAINAGE
547 Runnymede St, East
Palo Alto, CA 94303

REVISION	DESCRIPTION	DATE
00	APPLICATION FOR PERMIT	06/07/2020

DRAWING TITLE:

PROPOSED PLAN
GEOMETRIC DESIGN
PART B

PROJECT NO	684-19108
SUB-PROJ #	1
LEAD ENGINEER	AMIN GHAFOORIPOUR
DESIGNED BY:	AMIN GHAFOORIPOUR HEYDAR ABBASI
DRAWN BY:	HEYDAR ABBASI
CHECKED BY:	AMIN GHAFOORIPOUR
AUTHORIZED BY:	AMIN GHAFOORIPOUR
FIELD:	CIVIL
DATE:	06/07/2020

DWG. NO.
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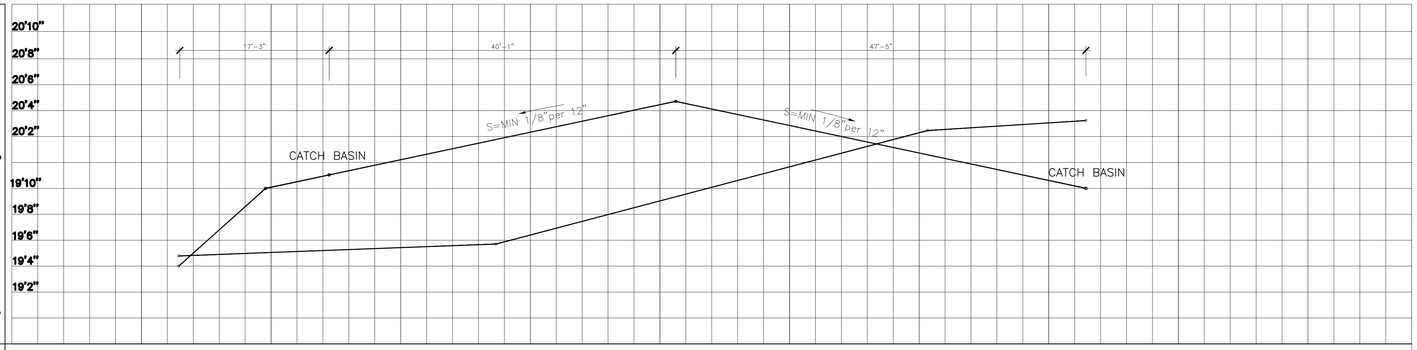
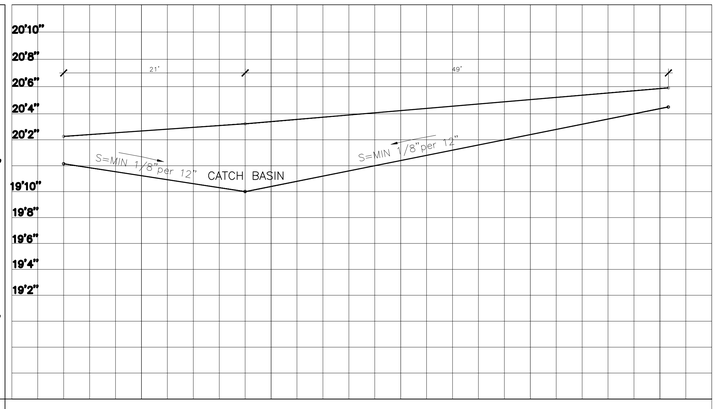
CI-4.2



NO OF POINT		1	2	3	4
ELEVATION	PROJECT ELEVATION	19.35'	19.83'	20.13'	20.36'	20.02'	19.83'
	GROUND ELEVATION	19.36'	19.68'	19.50'	19.72'	20.20'	20.22'
LENGTH		0.0	36'-8"	50'	18'4"
CHAINAGE	FT–IN	0.00	36'-8"	86'-8"	105'
	YARD				
	MILE				
SLOPE AND VERTICAL CURVES		C=0.00	C=0.00
LEFT CURVES RIGHT CURVES					
SUPER ELEVATION					

LONGITUDINAL PROFILE

SC. PART A (STATION 1 TO 4) 1/8"=1'



NO OF POINT		08	4	9
ELEVATION	PROJECT ELEVATION	20.04'	19.83'	20.36'
	GROUND ELEVATION	21.20'	20.22'	21.5'
LENGTH		0.0	21'	49'
CHAINAGE	FT–IN	84'	105'	154'
	YARD			
	MILE			
SLOPE AND VERTICAL CURVES		C=0.00	C=0.00
LEFT CURVES RIGHT CURVES				
SUPER ELEVATION				

LONGITUDINAL PROFILE

SC. STATION 8&4&9 1/8"=1'

PADIR
CONSULTING ENGINEER
INNOVATIVE
CIVL/STRUCTURAL ENG. SERVICES
CA-LICENSE # C-84986
415-728-5259
WWW.PADIR.US

REGISTERED PROFESSIONAL ENGINEER
DR. AMIN GHAFOORIPOUR
C84986
Exp. 3/31/22
CIVIL
STATE OF CALIFORNIA

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PROJECT TITLE:

COMMON INTEREST DEVELOPMENT
GRADING AND DRAINAGE
547 Runnymede St, East
Palo Alto, CA 94303

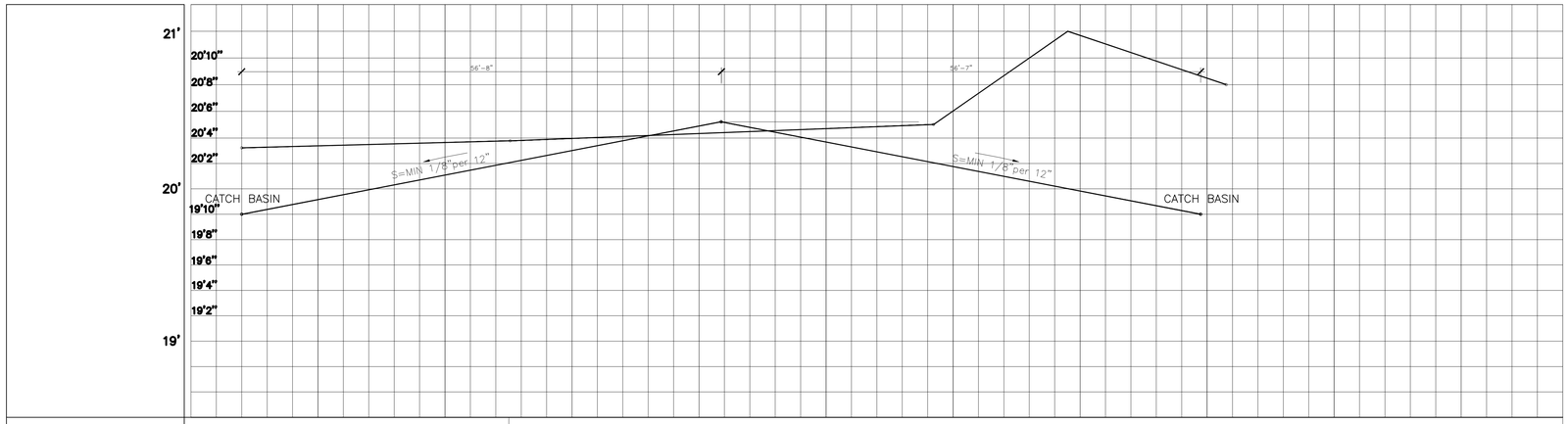
REVISION	DESCRIPTION	DATE
D0	APPLICATION FOR PERMIT	06/07/2020

DRAWING TITLE:

LONGITUDINAL PROFILE
STATION 1&2&3&4&8&9

PROJECT NO	684–19108
SUB–PROJ #	1
LEAD ENGINEER:	AMIN GHAFOORIPOUR
DESIGNED BY:	AMIN GHAFOORIPOUR HEYDAR ABBASI
DRAWN BY:	HEYDAR ABBASI
CHECKED BY:	AMIN GHAFOORIPOUR
AUTHORIZED BY:	AMIN GHAFOORIPOUR
FIELD:	CIVIL
DATE:	06/07/2020

DWG. NO.
684-DR-2-
CI-4.3



NO OF POINT		4	5	6	7			
ELEVATION	PROJECT ELEVATION	19.83'	20.17'	20.43'	20.16'	20'	19.83'	19.83'
	GROUND ELEVATION	20.22'	20.31'	20.37'	20.40'	21'	20.75'	20.67'
LENGTH		0.0	31'-8"	50'	0.0	34'-7"	0.0	
CHAINAGE	FT-IN	105'	136'-8"		186'-8"		221'-3"	
	YARD							
	MILE							
SLOPE AND VERTICAL CURVES			G=0.00		G=0.00			
LEFT CURVES RIGHT CURVES								
SUPER ELEVATION								

LONGITUDINAL PROFILE

SC. PART B (STATION 4 TO 7) 1/8"=1'

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REGISTERED PROFESSIONAL ENGINEER
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COMMON INTEREST DEVELOPMENT
GRADING AND DRAINAGE
547 Runnymede St, East
Palo Alto, CA 94303

REVISION	DESCRIPTION	DATE
D0	APPLICATION FOR PERMIT	06/07/2020

DRAWING TITLE:

LONGITUDINAL PROFILE
STATION 4&5&6&7

PROJECT NO	684-19108
SUB-PROJ #	1
LEAD ENGINEER	AMIN GHAFOORIPOUR
DESIGNED BY:	AMIN GHAFOORIPOUR HEYDAR ABBASI
DRAWN BY:	HEYDAR ABBASI
CHECKED BY:	AMIN GHAFOORIPOUR
AUTHORIZED BY:	AMIN GHAFOORIPOUR
FIELD:	CIVIL
DATE:	06/07/2020

DWG. NO.
684-DR-2-
CI-4.4

LEGEND:

EXISTING	(Symbol Size May Vary)	PROPOSED
	PROPERTY BOUNDARY	
	LOT LINE	
	CURB & GUTTER	
	STORM DRAIN	
	SWALE	
	FENCE LINE	
DW	DOMESTIC WATER LINE	DW
FW	FIRE WATER LINE	FW
	COMMUNICATION LINE	
	ELECTRIC LINE	
	GAS LINE	
	WATER LINE	
	JOINT UTILITY LINE	
	SANITARY SEWER LINE	
	STORM DRAIN LINE	
	STREET LIGHT LINE	
	CUT / FILL TRANSITION	
△	CITY STANDARD CURB INLET	▲
□	FIELD INLET / FLAT GRATE INLET	■
	AREA DRAIN	
◎	STORM MANHOLE	◎
	DIRECTION OF SURFACE DRAINAGE	
	OVERLAND RELEASE	
10	CONTOUR	10
	LIMIT OF GRADING	
	RETAINING WALL	
WV	WATER SHUT OFF VALVE	WV

ABBREVIATION:

BOW	BOTTOM OF WALL	PVC	Poly Vinyl Chloride
BW	BACK OF WALL ELEV.	PUE	Public Utility Easement
BOP	BOTTOM OF PIPE	PVC	Polyvinyl Chloride
CI	CURB INLET	RCP	Reinforced Concrete Pipe
CL	Center Line	RG	Rough Grade
CS	Concrete Surface	R/W	Right-of-Way
DS	DOWNSPOUT	S	SLOPE
FF	Finished Floor	SD	Storm Drain
FL	Flow Line	SDMH	Storm Drain Manhole
FG	FLOOR GRADE	TC	Top of Curb
GB	Grade Break	TCM	Treatment Control Measure
GS	Garage Slab	TDC	Top of Depressed Curb
HM	Hydromodification	TVC	Top of Vertical Curb
HP	High Point	TOW	TOP OF WALL
LP	Low Point	FFL	FINISH FLOOR LEVEL
PL	Property Line	T.O.S.	TOP OF SIDE WALK

IMPORTANT NOTE:

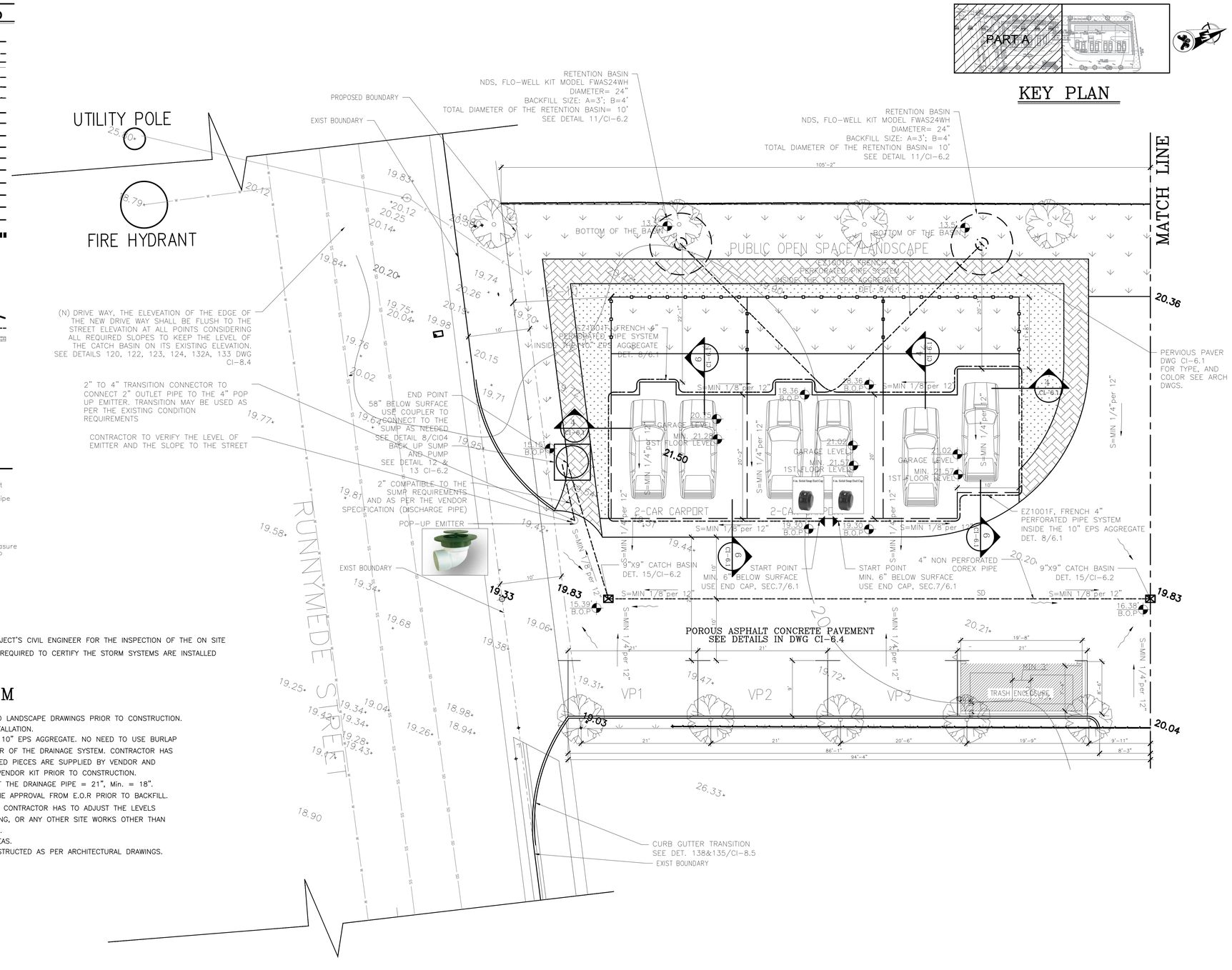
1- CONTRACTOR SHALL CONTACT PUBLIC WORK INSPECTOR AND PROJECT'S CIVIL ENGINEER FOR THE INSPECTION OF THE ON SITE DRAIANAGE FACILITIES. A LETTER FROM THE CIVIL ENGINEER WILL BE REQUIRED TO CERTIFY THE STORM SYSTEMS ARE INSTALLED PER DESIGN PRIOR TO PROJECT ACCEPTANCE.

NOTE FOR DRAINAGE SYSTEM

1- CONFIRM ALL DIMENSIONS AND ELEVATIONS BY ARCHITECTURAL AND LANDSCAPE DRAWINGS PRIOR TO CONSTRUCTION.
2- ALL GIVEN DIMENSIONS ARE JUST FOR THE DRAINAGE SYSTEM INSTALLATION.
3- ALL PERFORATED PIPES ARE TYPE EZ1001F, 4" AND COVERED BY 10" EPS AGGREGATE. NO NEED TO USE BURLAP
4- CONTRACTOR HAS TO COORDINATE WITH THE VENDOR AND SUPPLIER OF THE DRAINAGE SYSTEM. CONTRACTOR HAS TO USE THE VENDOR INSTALLATION PROCEDURE. ALSO, ALL REQUIRED PIECES ARE SUPPLIED BY VENDOR AND CONTRACTOR HAS TO GET THE LIST OF REQUIRED PIECES IN THE VENDOR KIT PRIOR TO CONSTRUCTION.
5- MAXIMUM SPACING BETWEEN THE FOOTING AND THE CENTERLINE OF THE DRAINAGE PIPE = 21", Min. = 18".
6- CONTRACTOR HAS TO TEST THE FLOW OF THE SYSTEM AND GET THE APPROVAL FROM E.O.R PRIOR TO BACKFILL.
7- MIN. DEPTH OF THE DRAINAGE PIPE IS 6" AND MIN. SLOPE IS 1%. CONTRACTOR HAS TO ADJUST THE LEVELS
8- FOR THE PAVEMENT MATERIALS, IRRIGATION, TREES, PLANTS, LIGHTING, OR ANY OTHER SITE WORKS OTHER THAN THAN DRAINAGE CONTACT ARCHITECT AND/OR LANDSCAPE DESIGNER.
9- CONCRETE PAVEMENT HAS TO BE SLOPED TOWARD THE GREEN AREAS.
10- CONCRETE PAVEMENT AND OTHER SPECIFICATIONS SHALL BE CONSTRUCTED AS PER ARCHITECTURAL DRAWINGS.

REFERENCE DWG.

FOR THE SYMBOLS AND ABBREVIATIONS SEE DWG CI-5.2.



DRAINAGE PLAN
PART A

SC. 1/8"=1'

KEY PLAN

PADIR
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COMMON INTEREST DEVELOPMENT
GRADING AND DRAINAGE
547 Runnymede St, East
Palo Alto, CA 94303

REVISION	DESCRIPTION	DATE
D0	APPLICATION FOR PERMIT	06/07/2020

DRAWING TITLE:

DRAINAGE PLAN
PART A

PROJECT NO	684-19108
SUB-PROJ #	1
LEAD ENGINEER	AMIN GHAFOORIPOUR
DESIGNED BY:	AMIN GHAFOORIPOUR HEYDAR ABBASI
DRAWN BY:	HEYDAR ABBASI
CHECKED BY:	AMIN GHAFOORIPOUR
AUTHORIZED BY:	AMIN GHAFOORIPOUR
FIELD:	CIVIL
DATE:	06/07/2020

DWG. NO.
684-DR-2-
CI-5.1

LEGEND:

EXISTING	(Symbol Size May Vary)	PROPOSED
	PROPERTY BOUNDARY	
	LOT LINE	
	CURB & GUTTER	
	STORM DRAIN	
	SWALE	
	FENCE LINE	
DW	DOMESTIC WATER LINE	DW
FW	FIRE WATER LINE	FW
	COMMUNICATION LINE	
	ELECTRIC LINE	
	GAS LINE	
	WATER LINE	
	JOINT UTILITY LINE	
	SANITARY SEWER LINE	
	STORM DRAIN LINE	
	STREET LIGHT LINE	
	CUT / FILL TRANSITION	
△	CITY STANDARD CURB INLET	▲
□	FIELD INLET / FLAT GRATE INLET	■
	AREA DRAIN	
◎	STORM MANHOLE	◎
	DIRECTION OF SURFACE DRAINAGE	
	OVERLAND RELEASE	
10	CONTOUR	10
	LIMIT OF GRADING	
	RETAINING WALL	
WV	WATER SHUT OFF VALVE	WV

ABBREVIATION:

BOW	BOTTOM OF WALL	PVC	Poly Vinyl Chloride
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GS	Garage Slab	TDC	Top of Depressed Curb
HM	Hydromodification	TVC	Top of Vertical Curb
HP	High Point	TOW	TOP OF WALL
LP	Low Point	FFL	FINISH FLOOR LEVEL
PL	Property Line	T.O.S.	TOP OF SIDE WALK

IMPORTANT NOTE:

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NOTE FOR DRAINAGE SYSTEM

1– CONFIRM ALL DIMENSIONS AND ELEVATIONS BY ARCHITECTURAL AND LANDSCAPE DRAWINGS PRIOR TO CONSTRUCTION.
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5– MAXIMUM SPACING BETWEEN THE FOOTING AND THE CENTERLINE OF THE DRAINAGE PIPE = 21", Min. = 18".
6– CONTRACTOR HAS TO TEST THE FLOW OF THE SYSTEM AND GET THE APPROVAL FROM E.O.R PRIOR TO BACKFILL.
7– MIN. DEPTH OF THE DRAINAGE PIPE IS 6" AND MIN. SLOPE IS 1%. CONTRACTOR HAS TO ADJUST THE LEVELS
8– FOR THE PAVEMENT MATERIALS, IRRIGATION, TREES, PLANTS, LIGHTING, OR ANY OTHER SITE WORKS OTHER THAN THAN DRAINAGE CONTACT ARCHITECT AND/OR LANDSCAPE DESIGNER.
9– CONCRETE PAVEMENT HAS TO BE SLOPED TOWARD THE GREEN AREAS.
10– CONCRETE PAVEMENT AND OTHER SPECIFICATIONS SHALL BE CONSTRUCTED AS PER ARCHITECTURAL DRAWINGS.

INSTALLATION NOTES

FOR ALL INSTALLATIONS, EXCAVATION SHALL BE CARRIED OUT AS REQUIRED TO ACCOMMODATE THE EQUIPMENT. CONTRACTOR SHALL PROVIDE SHORING AS REQUIRED TO ENSURE A STABLE EXCAVATION. THE DEPTH OF EXCAVATION REQUIRED FOR THE INSTALLATION OF THE STORM WATER TREATMENT UNIT IS SPECIFIED ON THE PLAN AND PROFILE DRAWINGS.

ON ACHIEVING SUB-GRADE FOR THE EXCAVATION, THE ENGINEER WILL DETERMINE SUITABILITY OF THE SUBGRADE TO SUPPORT THE STRUCTURE THAT WILL BE INSTALLED. ON ACCEPTANCE OF THE SUBGRADE CONDITION, CONTRACTOR SHALL BACKFILL THE EXCAVATION WITH 6" OF CLASS II AGGREGATE BASE AND SHALL COMPACT SAID AGGREGATE BASE TO 95% RELATIVE COMAPCTION. THE AGGREGATE BASE SHALL BE WITHIN .04' OF THEORETICAL GRADE. THE GRADE MAY BE LOW BY .04', BUT MAY NOT BE ABOVE THE THEORETICAL GRADE.

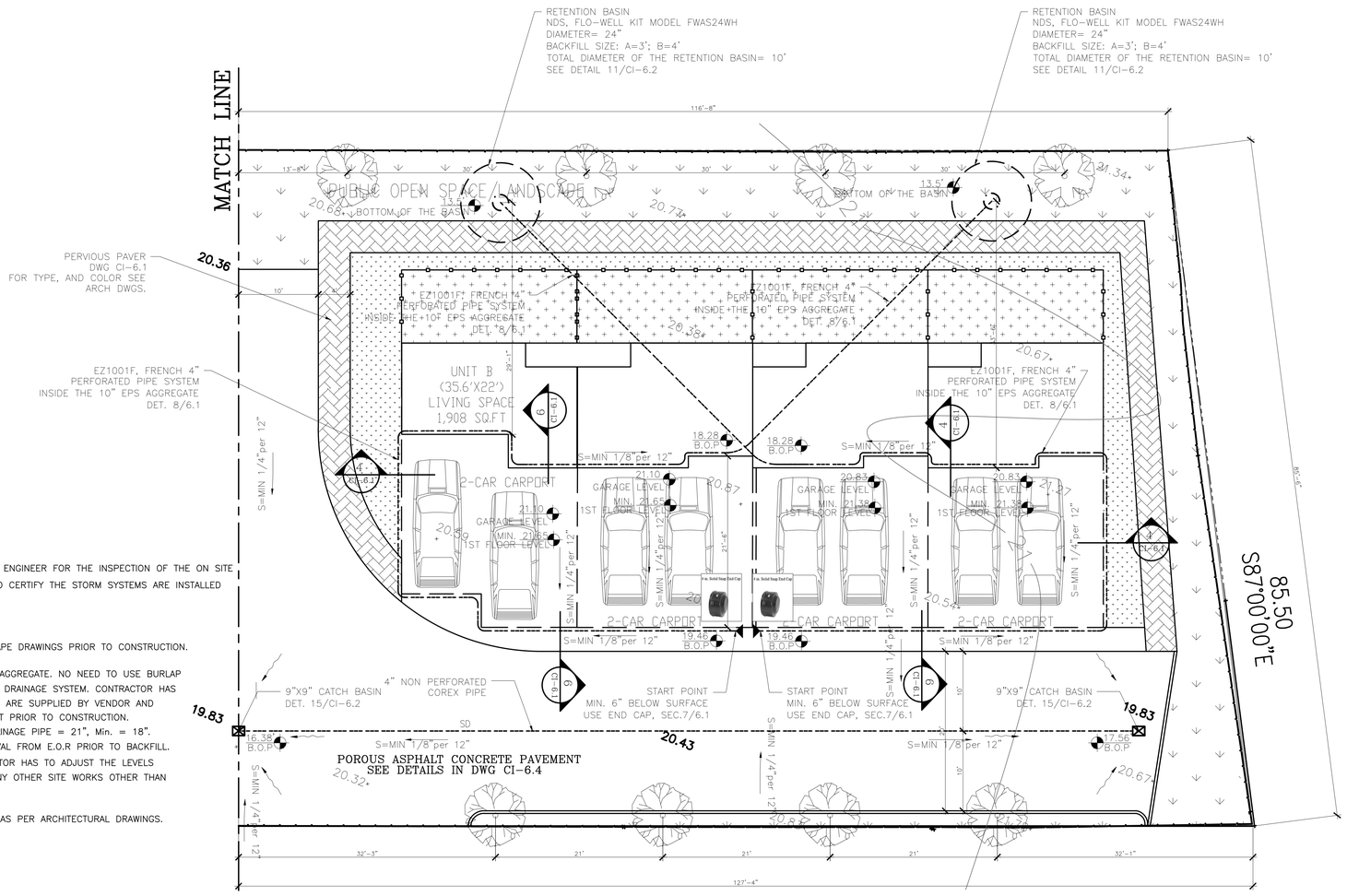
SUB-GRADE SHALL BE ESTABLISHED AS SHOWN ON THE DRAWINGS. THE SUB-GRADE MATERIAL SHALL BE COMPOSED TO WITHSTAND A DESIGN LOADING OF 2,000 POUNDS PER SQUARE FOOT (PSF). IT IS RECOMMENDED THAT THE HOLE BE OVER-EXCAVATED BY A MINIMUM OF 6" AND BACKFILLED WITH AGGREGATE BASE AND COMPACTED TO 90% TO MAKE SUB-GRADE.

CONTRACTOR SHALL GROUT INLET AND OUTLET PIPED FLUSH WITH MEDIA FILTRATION SYSTEM WALL. BOOTS MAY BE USED IF DESIRED.

SITE MAINTENANCE

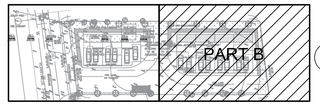
POST-CONSTRUCTION CONTINUING SITE MAINTENANCE. IS REQUIRED TO REDUCE THE AMOUNT OF POLLUTANTS THAT REACH THE SWALES.

1. VACUUM/SWEEPING OF PARKING LOTS AT LEAST EVERY MONTH.
2. OIL AND OTHER SPILLS SHALL BE REMOVED WITH DRY ABSORBENT MATERIAL.
3. MOW OR CUT GRASS SWALES TO 4-INCH HEIGHT AT LEAST 3 TIMES PER YEAR: PRIOR TO FEBRUARY 15, JUNE 15 AND OCTOBER 15. COLLECT AND PROPERLY DISPOSE OF CUTTINGS.
4. VACUUM SWALES TO REMOVE SEDIMENT, AS NEEDED. (MINIMUM ONCE EVERY YEAR IN JUNE).
5. MAINTAIN A DENSE, HEALTHY GRASS COVER IN SWALES.
6. MINIMAL APPLICATION OF FERILIZERS.
7. INSPECT SWALES FOR STANDING WATER AND CORRECT DRAINAGE.



DRAINAGE PLAN
PART B

SC. 1/8"=1'



KEY PLAN

PADIR
CONSULTING ENGINEER
INNOVATIVE
CIVIL/STRUCTURAL ENG. SERVICES
CA-LICENSE # C-84986
415-728-5259
WWW.PADIR.US

REGISTERED PROFESSIONAL ENGINEER
DR. AMIN GHAFOORIPOUR
C84986
Exp. 3/31/22
CIVIL
STATE OF CALIFORNIA

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PROJECT TITLE:

COMMON INTEREST DEVELOPMENT
GRADING AND DRAINAGE
547 Runnymede St, East
Palo Alto, CA 94303

REVISION	DESCRIPTION	DATE
00	APPLICATION FOR PERMIT	06/07/2020

DRAWING TITLE:

DRAINAGE PLAN
PART B

PROJECT NO	684-19108
SUB-PROJ #	1
LEAD ENGINEER	AMIN GHAFOORIPOUR
DESIGNED BY:	AMIN GHAFOORIPOUR HEYDAR ABBASI
DRAWN BY:	HEYDAR ABBASI
CHECKED BY:	AMIN GHAFOORIPOUR
AUTHORIZED BY:	AMIN GHAFOORIPOUR
FIELD:	CIVIL
DATE:	06/07/2020

DWG. NO.
684-DR-2-
CI-5.2

LEGEND:

EXISTING	(Symbol Size May Vary)	PROPOSED
	PROPERTY BOUNDARY	
	LOT LINE	
	CURB & GUTTER	
	STORM DRAIN	
	SWALE	
	FENCE LINE	
DW	DOMESTIC WATER LINE	DW
FW	FIRE WATER LINE	FW
	COMMUNICATION LINE	
	ELECTRIC LINE	
	GAS LINE	
	WATER LINE	
	JOINT UTILITY LINE	
	SANITARY SEWER LINE	
	STORM DRAIN LINE	
	STREET LIGHT LINE	
	CUT / FILL TRANSITION	
△	CITY STANDARD CURB INLET	▲
□	FIELD INLET / FLAT GRATE INLET	■
	AREA DRAIN	
◎	STORM MANHOLE	◎
	DIRECTION OF SURFACE DRAINAGE	
	OVERLAND RELEASE	
10	CONTOUR	10
	LIMIT OF GRADING	
	RETAINING WALL	
WV	WATER SHUT OFF VALVE	WV

ABBREVIATION:

BOW	BOTTOM OF WALL	PVC	Poly Vinyl Chloride
BW	BACK OF WALL ELEV.	PUE	Public Utility Easement
BOP	BOTTOM OF PIPE	PVC	Polyvinyl Chloride
CI	CURB INLET	RCP	Reinforced Concrete Pipe
CL	Center Line	RG	Rough Grade
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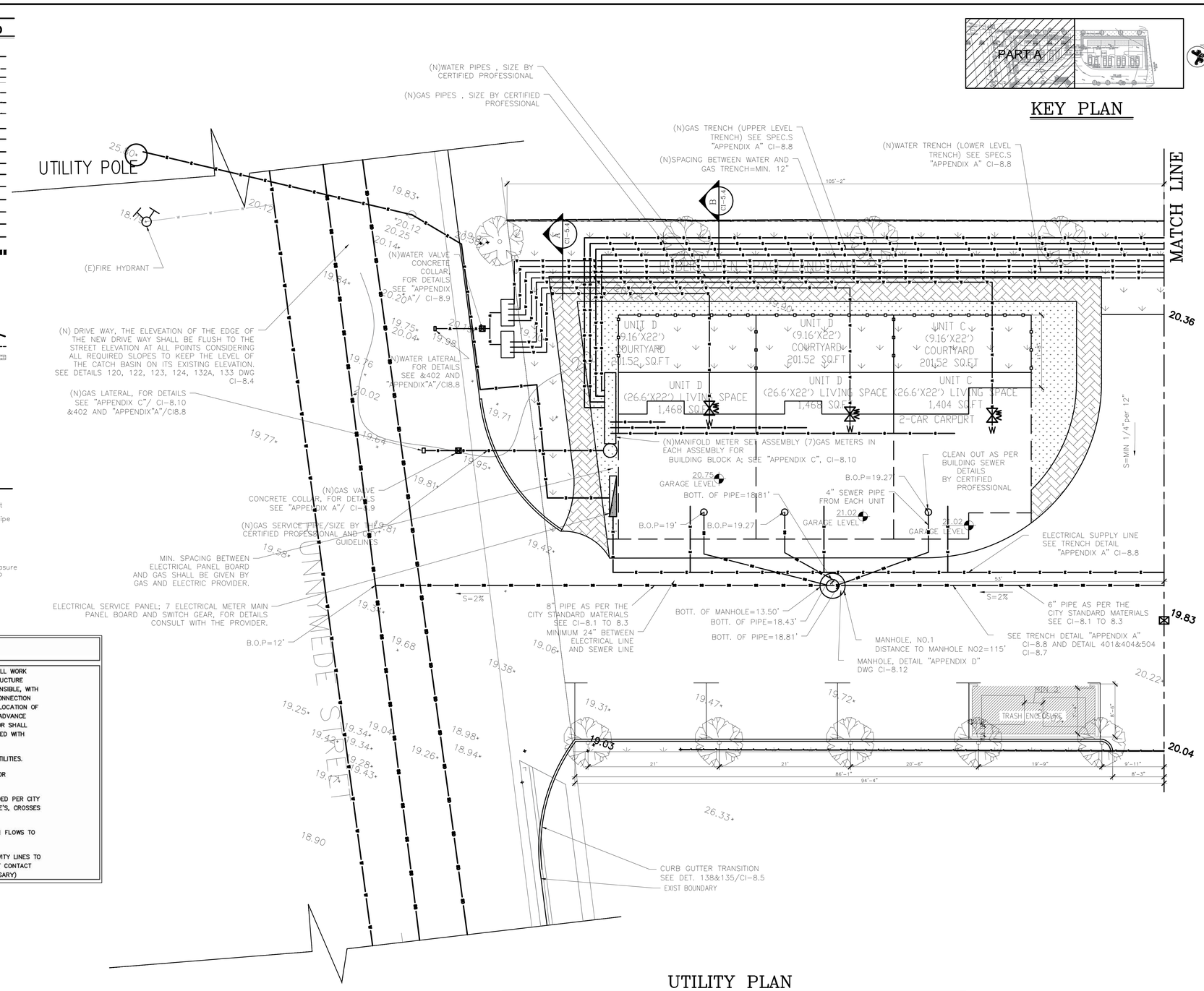
HM	Hydromodification	TVC	Top of Vertical Curb
HP	High Point	TOW	TOP OF WALL
LP	Low Point	FFL	FINISH FLOOR LEVEL
PL	Property Line	T.O.S.	TOP OF SIDE WALK

UTILITY NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND SCHEDULING ALL WORK WITH UTILITY COMPANIES INCLUDING INSPECTIONS, DISCONNECTIONS, INFRASTRUCTURE INSTALLATION AND FINAL SERVICE CONNECTIONS. THE CONTRACTOR IS RESPONSIBLE, WITH PG&E, FOR ALL ASPECTS OF THIS PROJECT INCLUDING ARRANGING FOR DISCONNECTION OF SERVICES, FOR SCHEDULING INSPECTIONS, OBTAINING SIGN-OFFS, AND RELOCATION OF SERVICES. CONTRACTOR SHALL BE AWARE THAT PG&E REQUIRES EXTENSIVE ADVANCE NOTIFICATION AND SHOULD SCHEDULE THEIR WORK ACCORDINGLY. CONTRACTOR SHALL NOT MAKE ANY CLAIMS FOR TIME DELAY DUE TO ANY PG&E WORK ASSOCIATED WITH THIS PROJECT.
2. PG&E LINES SHALL NOT BE INSTALLED IN THE SAME TRENCH AS ANY WET UTILITIES.
3. ELECTRICAL SHOWN FOR INFORMATION ONLY. REFER TO ELECTRICAL PLANS FOR CONSTRUCTION DETAILS.
4. SOIL IS EXTREMELY CORROSIVE AND CATHODIC PROTECTION SHALL BE PROVIDED PER CITY STANDARDS. ANODE TEST STATIONS SHALL BE PROVIDED AT ALL VALVES, TEE'S, CROSSES AND HYDRANTS.
5. ALL CATCH BASINS SHALL BE STAMPED WITH CITY STANDARDS "NO DUMPING! FLOWS TO BAY" PLAQUES.
6. CONTRACTOR TO CUT ENTIRE TRENCH PRIOR TO THE CONSTRUCTION OF GRAVITY LINES TO ENSURE ADEQUATE CLEARANCES WITH EXISTING UTILITIES. IF CONFLICTS EXIST CONTACT ENGINEER FOR REMEDY. (COVER OPEN TRENCH WITH STEEL PLATE AS NECESSARY)



UTILITY PLAN
PART A

SC. 1/8"=1'

KEY PLAN

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COMMON INTEREST DEVELOPMENT
GRADING AND DRAINAGE
547 Runnymede St, East
Palo Alto, CA 94303

REVISION	DESCRIPTION	DATE
D0	APPLICATION FOR PERMIT	06/07/2020

DRAWING TITLE:

UTILITY PLAN
PART A

PROJECT NO	684-19108
SUB-PROJ #	1
LEAD ENGINEER	AMIN GHAFOORIPOUR
DESIGNED BY:	AMIN GHAFOORIPOUR HEYDAR ABBASI
DRAWN BY:	HEYDAR ABBASI
CHECKED BY:	AMIN GHAFOORIPOUR
AUTHORIZED BY:	AMIN GHAFOORIPOUR
FIELD:	CIVIL
DATE:	06/07/2020

DWG. NO.
684-DR-2-
CI-5.3

LEGEND:

EXISTING	(Symbol Size May Vary)	PROPOSED
	PROPERTY BOUNDARY	
	LOT LINE	
	CURB & GUTTER	
	STORM DRAIN	
	SWALE	
	FENCE LINE	
DW	DOMESTIC WATER LINE	DW
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	COMMUNICATION LINE	
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	CUT / FILL TRANSITION	
△	CITY STANDARD CURB INLET	▲
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	AREA DRAIN	
◎	STORM MANHOLE	◎
	DIRECTION OF SURFACE DRAINAGE	
	OVERLAND RELEASE	
10	CONTOUR	10
	LIMIT OF GRADING	
	RETAINING WALL	
WV	WATER SHUT OFF VALVE	WV

ABBREVIATION:

BOW	BOTTOM OF WALL	PVC	Poly Vinyl Chloride
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FG	FLOOR GRADE	TC	Top of Curb
GB	Grade Break	TCM	Treatment Control Measure
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HM	Hydromodification	TVC	Top of Vertical Curb
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IMPORTANT NOTE:

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NOTE FOR DRAINAGE SYSTEM

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2- ALL GIVEN DIMENSIONS ARE JUST FOR THE DRAINAGE SYSTEM INSTALLATION.
3- ALL PERFORATED PIPES ARE TYPE EZ1001F, 4" AND COVERED BY 10" EPS AGGREGATE. NO NEED TO USE BURLAP
4- CONTRACTOR HAS TO COORDINATE WITH THE VENDOR AND SUPPLIER OF THE DRAINAGE SYSTEM. CONTRACTOR HAS TO USE THE VENDOR INSTALLATION PROCEDURE. ALSO, ALL REQUIRED PIECES ARE SUPPLIED BY VENDOR AND CONTRACTOR HAS TO GET THE LIST OF REQUIRED PIECES IN THE VENDOR KIT PRIOR TO CONSTRUCTION.
5- MAXIMUM SPACING BETWEEN THE FOOTING AND THE CENTERLINE OF THE DRAINAGE PIPE = 21", Min. = 18".
6- CONTRACTOR HAS TO TEST THE FLOW OF THE SYSTEM AND GET THE APPROVAL FROM E.O.R PRIOR TO BACKFILL.
7- MIN. DEPTH OF THE DRAINAGE PIPE IS 6" AND MIN. SLOPE IS 1%. CONTRACTOR HAS TO ADJUST THE LEVELS
8- FOR THE PAVEMENT MATERIALS, IRRIGATION, TREES, PLANTS, LIGHTING, OR ANY OTHER SITE WORKS OTHER THAN THAN DRAINAGE CONTACT ARCHITECT AND/OR LANDSCAPE DESIGNER.
9- CONCRETE PAVEMENT HAS TO BE SLOPED TOWARD THE GREEN AREAS.
10- CONCRETE PAVEMENT AND OTHER SPECIFICATIONS SHALL BE CONSTRUCTED AS PER ARCHITECTURAL DRAWINGS.

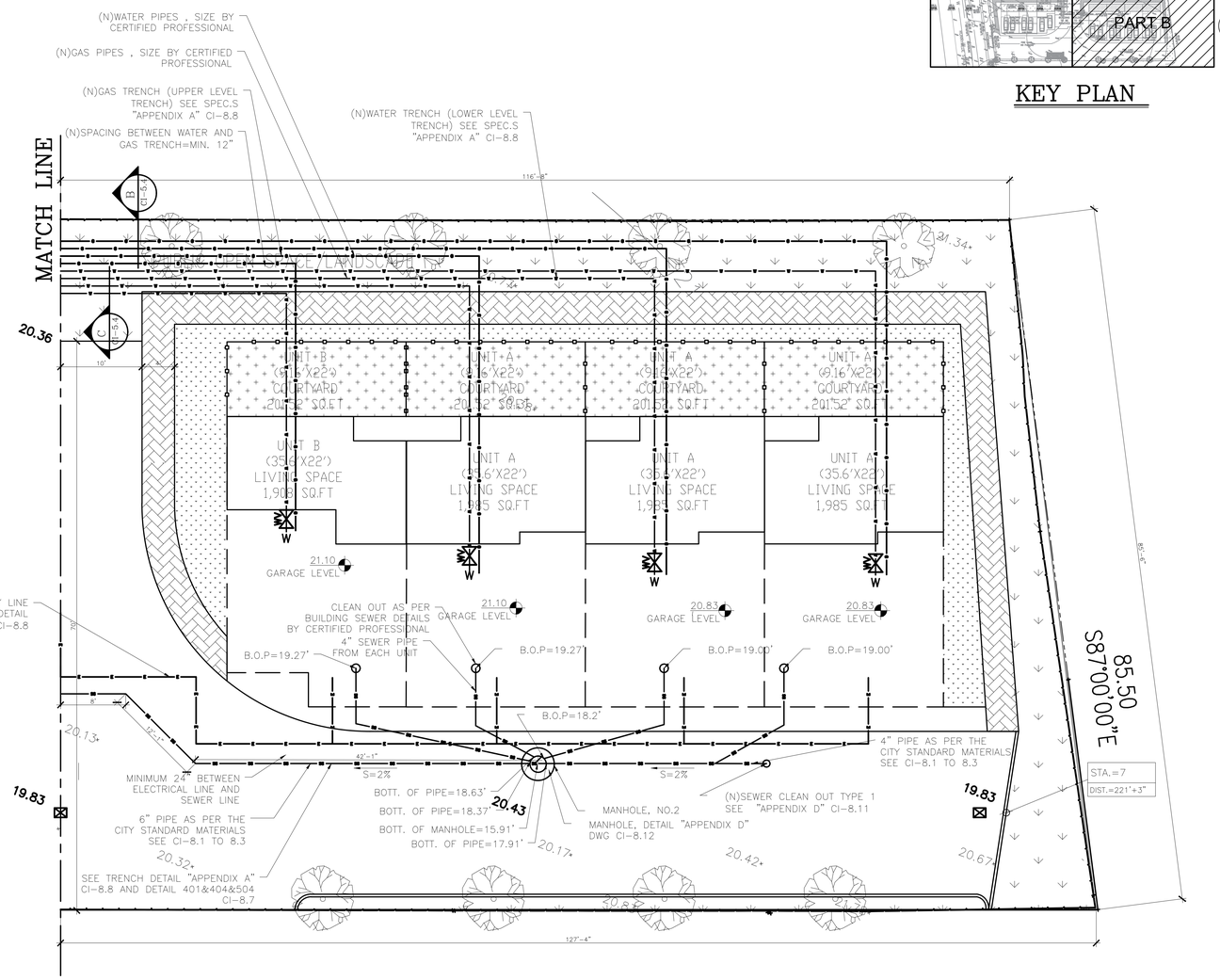
NOTES:

1. EARTHWORK NUMBERS ARE BASED ON NEAT LINE QUANTITIES AND DOES NOT FACTOR IN ANY SHRINKAGE ADJUSTMENTS. CONTRACTOR'S BID SHALL INCORPORATE SHRINKAGE BASED ON ACTUAL FIELD CONDITIONS AND GEOTECHNICAL RECOMMENDATIONS.

2. EARTHWORK QUANTITIES SHOWN ARE FOR PLANNING PURPOSES ONLY. CONTRACTOR SHALL PERFORM THEIR OWN EARTHWORK QUANTITY CALCULATION.

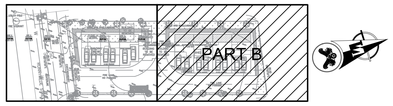
GENERAL NOTE:

IF THE GAS PIPE PASSES UNDERNEATH A DRIVE WAY THEN THE GAS LINE MUST BE A MIN. OF 18" DEPTH BELOW GRADE AND SHOULD HAVE A FIRM BASE GRADE (SAND BEARING) CBC 1210.1.1. IF PAVER IS USED IN THE DRIVE WAY TRENCH MUST BACKFILLED AND COMPACTED AS PER SOIL ENGINEER INSTRUCTION. COMPACTION TEST WILL BE REQUIRED.

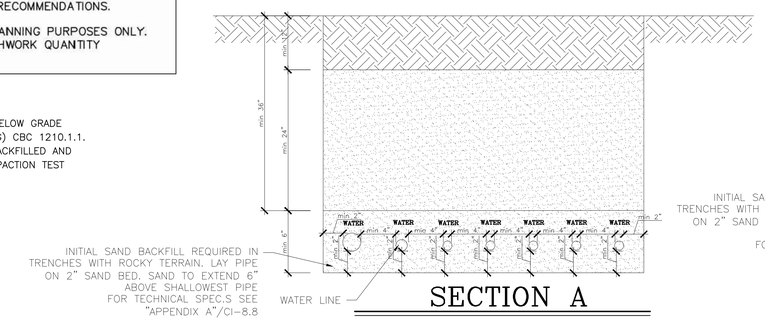


UTILITY PLAN
PART B

SC. 1/8"=1'

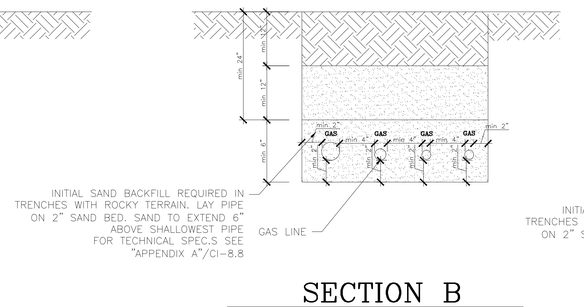


KEY PLAN



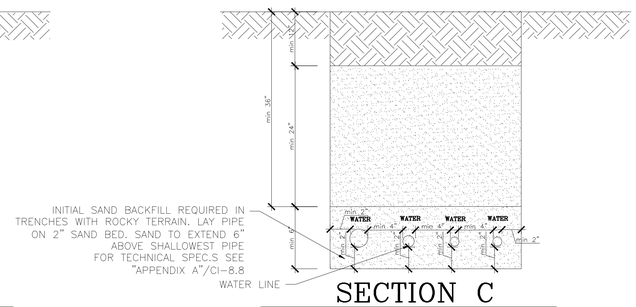
SECTION A

BURIAL DEPTHS FOR YARD PIPING SC: NTS



SECTION B

BURIAL DEPTHS FOR YARD PIPING SC: NTS



SECTION C

BURIAL DEPTHS FOR YARD PIPING SC: NTS

PADIR
CONSULTING ENGINEER
INNOVATIVE
CIVL/STRUCTURAL ENG. SERVICES
CA-LICENSE # C-84986
415-728-5259
WWW.PADIR.US

REGISTERED PROFESSIONAL ENGINEER
DR. AMIN GHAFOORIPOUR
C84986
Exp. 3/31/22
CIVIL
STATE OF CALIFORNIA

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PROJECT TITLE:

COMMON INTEREST DEVELOPMENT
GRADING AND DRAINAGE
547 Runnymede St, East
Palo Alto, CA 94303

REVISION	DESCRIPTION	DATE
00	APPLICATION FOR PERMIT	06/07/2020

DRAWING TITLE:

UTILITY PLAN
PART B
AND
SECTION A&B&C

PROJECT NO	684-19108
SUB-PROJ #	1
LEAD ENGINEER	AMIN GHAFOORIPOUR
DESIGNED BY:	AMIN GHAFOORIPOUR HEYDAR ABBASI
DRAWN BY:	HEYDAR ABBASI
CHECKED BY:	AMIN GHAFOORIPOUR
AUTHORIZED BY:	AMIN GHAFOORIPOUR
FIELD:	CIVIL
DATE:	06/07/2020

DWG. NO.
684-DR-2-
CI-5.4