

PRELIMINARY PROJECT CONDITIONS
RELATED TO PALEONTOLOGICAL RESOURCES

PALEONTOLOGICALLY SENSITIVE AREAS ARE THOSE IDENTIFIED AS HAVING HIGH, MODERATE, LOW OR MARGINAL POTENTIAL TO CONTAIN PALEONTOLOGICAL RESOURCES. MITIGATION INCLUDES MONITORING DURING GRADING AND/OR EXCAVATION, HOWEVER, THE MONITORING REQUIREMENT IS DIFFERENT FOR HIGH/MODERATE AND LOW/MARGINAL. ONLY THE AREAS OF NO POTENTIAL DO NOT REQUIRE MONITORING. GUIDELINES FOR DETERMINING SIGNIFICANCE FOR PALEONTOLOGICAL RESOURCES ARE AT: [HTTP://WWW.SDCOUNTY.CA.GOV/PDS/DOCS/PALEO-GUIDELINES.PDF](http://www.sdcountry.ca.gov/pds/docs/paleo-guidelines.pdf).

PROJECT SPECIFIC INFORMATION: A REVIEW OF THE COUNTY'S PALEONTOLOGICAL RESOURCES POTENTIAL AND SENSITIVITY MAP AND DATA ON SAN DIEGO COUNTY'S GEOLOGIC FORMATIONS INDICATES THAT THE PROJECT IS LOCATED ON GEOLOGICAL FORMATIONS THAT POTENTIALLY CONTAIN UNIQUE PALEONTOLOGICAL RESOURCES. EXCAVATING INTO UNDISTURBED GROUND BENEATH THE SOIL HORIZONS MAY CAUSE A SIGNIFICANT IMPACT IF UNIQUE PALEONTOLOGICAL RESOURCES ARE ENCOUNTERED. THE PROJECT IS IN AN AREA RATED AS HAVING LOW POTENTIAL FOR CONTAINING UNIQUE PALEONTOLOGICAL RESOURCES.

GENERAL INFORMATION: SINCE AN IMPACT TO PALEONTOLOGICAL RESOURCES DOES NOT TYPICALLY OCCUR UNTIL THE RESOURCE IS DISTURBED, MONITORING DURING EXCAVATION IS THE ESSENTIAL MEASURE TO MITIGATE POTENTIALLY SIGNIFICANT IMPACTS TO UNIQUE PALEONTOLOGICAL RESOURCES TO A LEVEL BELOW SIGNIFICANCE. MONITORING AND COLLECTION OF PALEONTOLOGICAL RESOURCES DURING SITE EXCAVATION ENSURES THAT POTENTIALLY ADVERSE IMPACTS TO PALEONTOLOGICAL RESOURCES ARE REDUCED TO A LEVEL BELOW SIGNIFICANCE. THE TYPE OF MONITORING REQUIRED IS BASED ON THE AMOUNT OF EXCAVATION PROPOSED AND THE SITE'S POTENTIAL FOR CONTAINING UNIQUE PALEONTOLOGICAL RESOURCES. TO MITIGATE FOR THE PROJECT'S POTENTIAL IMPACT TO PALEONTOLOGICAL RESOURCES, THE PROJECT WILL BE REQUIRED TO COMPLY WITH THE FOLLOWING PROJECT CONDITION:

DRAFT GRADING PLAN NOTES:

PRIOR TO APPROVAL OF GRADING OR IMPROVEMENT PLANS, THE APPLICANT SHALL:

A. PROVIDE EVIDENCE THAT GRADING AND/OR OTHER EXCAVATION WILL BE MONITORED FOR FOSSILS. THE PERSON RESPONSIBLE FOR FOSSIL MONITORING NEED NOT BE A QUALIFIED PALEONTOLOGIST OR A QUALIFIED PALEONTOLOGICAL RESOURCES MONITOR, AND MAY BE AN EMPLOYEE(S) OF THE GRADING CONTRACTOR, AND IN SOME CASES, MAY BE THE EQUIPMENT OPERATOR(S). EVIDENCE SHALL BE A LETTER FROM THE GRADING CONTRACTOR TO THE DIRECTOR OF PLANNING & DEVELOPMENT SERVICES STATING THE NAMES OF THOSE INDIVIDUALS THAT WILL BE RESPONSIBLE FOR MONITORING FOR FOSSILS.

B. PROVIDE EVIDENCE TO THE DIRECTOR OF PUBLIC WORKS (DPW) THAT THE FOLLOWING NOTES HAVE BEEN PLACED ON THE GRADING PLAN:

- IF A FOSSIL OR GROUP OF FOSSILS (E.G. A SHELL BED) OF GREATER THAN TWELVE INCHES IN ANY DIMENSION (INCLUDING CIRCUMFERENCE) IS ENCOUNTERED BENEATH THE SOIL LAYERS (MEANING THAT IT IS NOT ARCHAEOLOGICAL) DURING GRADING OR OTHER EXCAVATION:
 - ALL EARTHMOVING OPERATIONS IN THE AREA WHERE THE FOSSIL WAS FOUND SHALL BE SUSPENDED IMMEDIATELY;
 - THE COUNTY'S PERMIT COMPLIANCE COORDINATOR SHALL BE NOTIFIED;
 - THE APPLICANT SHALL CONTRACT WITH A QUALIFIED PALEONTOLOGIST TO EVALUATE THE SIGNIFICANCE OF THE FOSSIL. A QUALIFIED PALEONTOLOGIST IS A PERSON WITH A PH.D. OR MASTER'S DEGREE IN PALEONTOLOGY OR A RELATED FIELD, AND WHO HAS KNOWLEDGE OF SAN DIEGO COUNTY PALEONTOLOGY AND DOCUMENTED EXPERIENCE IN PROFESSIONAL PALEONTOLOGICAL PROCEDURES AND TECHNIQUES.
 - VERIFICATION OF THE CONTRACT SHALL BE PRESENTED IN A LETTER FROM THE QUALIFIED PALEONTOLOGIST TO THE DIRECTOR OF PLANNING & DEVELOPMENT SERVICES STATING THAT HE/SHE HAS BEEN CONTRACTED TO DETERMINE IF THE FOUND FOSSIL IS SIGNIFICANT. IF THE FOSSIL IS SIGNIFICANT, THE QUALIFIED PALEONTOLOGIST SHALL:
 - SALVAGE UNEARTHED FOSSIL REMAINS, INCLUDING SIMPLE EXCAVATION OF EXPOSED SPECIMENS OR, IF NECESSARY, PLASTER-JACKETING OF LARGE AND/OR FRAGILE SPECIMENS OR MORE ELABORATE QUARRY EXCAVATIONS OF RICHLY FOSSILIFEROUS DEPOSITS;
 - IN THE FIELD, RECORD STRATIGRAPHIC AND GEOLOGIC DATA TO PROVIDE A CONTEXT FOR THE RECOVERED FOSSIL REMAINS, TYPICALLY INCLUDING A DETAILED DESCRIPTION OF ALL PALEONTOLOGICAL LOCALITIES WITHIN THE PROJECT SITE, AS WELL AS THE LITHOLOGY OF FOSSIL-BEARING STRATA WITHIN THE MEASURED STRATIGRAPHIC SECTION, IF FEASIBLE, AND PHOTOGRAPHIC DOCUMENTATION OF THE GEOLOGIC SETTING;
- GRADING AND EXCAVATION CAN RESUME EITHER WHEN THE QUALIFIED PALEONTOLOGIST DETERMINES THAT THE FIND IS NOT SIGNIFICANT OR AFTER THE FOSSIL HAS BEEN REMOVED AND THE ASSOCIATED DATA COLLECTED.

C. PRIOR TO ROUGH GRADING INSPECTION SIGN-OFF PROVIDE EVIDENCE THAT MONITORING FOR FOSSILS HAS BEEN COMPLETED. EVIDENCE SHALL BE IN THE FORM OF A LETTER FROM THE GRADING CONTRACTOR TO TE DIRECTOR OF PLANNING & DEVELOPMENT SERVICES. [PDS, FEE].

PRELIMINARY PROJECT CONDITIONS RELATED
TO PALEONTOLOGICAL RESOURCES CONTINUED

PRIOR TO FINAL GRADING RELEASE:

- IF NO PALEONTOLOGICAL RESOURCES WERE DISCOVERED, SUBMIT A "NO FOSSILS FOUND" LETTER FROM THE GRADING CONTRACTOR TO THE DIRECTOR OF PLANNING & DEVELOPMENT SERVICES STATING THAT THE MONITORING HAS BEEN COMPLETED AND THAT NO FOSSILS WERE DISCOVERED, AND INCLUDING THE NAMES AND SIGNATURES FROM THE FOSSIL MONITORS. THE LETTER SHALL BE IN THE FORMAT OF ATTACHMENT E OF THE COUNTY OF SAN DIEGO GUIDELINES FOR DETERMINING SIGNIFICANCE FOR PALEONTOLOGICAL RESOURCES. [PDS FEE]
- IF PALEONTOLOGICAL RESOURCES WERE DISCOVERED AND SALVAGED, THE FOLLOWING TASKS SHALL BE COMPLETED BY OR UNDER THE SUPERVISION OF A QUALIFIED PALEONTOLOGIST:
 - PREPARE COLLECTED FOSSIL REMAINS FOR CURATION, TO INCLUDE CLEANING THE FOSSILS BY REMOVING THE ENCLOSING ROCK MATERIAL, STABILIZING FRAGILE SPECIMENS USING GLUES AND OTHER HARDENERS, IF NECESSARY, AND REPAIRING BROKEN SPECIMENS;
 - CURATE, CATALOG AND IDENTIFY ALL FOSSIL REMAINS TO THE LOWEST TAXON POSSIBLE, INVENTORY SPECIMENS, ASSIGNING CATALOG NUMBERS, AND ENTER THE APPROPRIATE SPECIMEN AND LOCALITY DATA INTO AN COLLECTION DATABASE;
 - TRANSFER THE CATALOGED FOSSIL REMAINS AND COPIES OF RELEVANT FIELD NOTES, MAPS, STRATIGRAPHIC SECTIONS, AND PHOTOGRAPHS TO AN ACCREDITED INSTITUTION FOR ARCHIVAL STORAGE AND/OR DISPLAY, PREFERABLY:
 - SAN DIEGO NATURAL HISTORY MUSEUM, PHYSICAL ADDRESS: 1788 EL PRADO, SAN DIEGO, CA 92101; MAILING ADDRESS: P.O. BOX 121390, SAN DIEGO, CA 92112-1390, (619) 232-3821
 - NATURAL HISTORY MUSEUM OF LOS ANGELES COUNTY, 900 EXPOSITION BOULEVARD, LOS ANGELES, CA 90007, (213) 763-DINO
 - SAN BERNARDINO MUSEUM OF NATURAL HISTORY, 2024 ORANGE TREE LANE, REDLANDS, CALIFORNIA 92374, (909) 307-2669
 - UNIVERSITY OF CALIFORNIA MUSEUM OF PALEONTOLOGY, BERKELEY, 1101 VALLEY LIFE SCIENCES BUILDING, BERKELEY, CA 94720-4780, (510) 642-1821
 - ANZA-BORREGO DESERT STATE PARK, 200 PALM CANYON DRIVE, BORREGO SPRINGS, CA 92004, (760) 767-5311

PRELIMINARY PROJECT CONDITIONS RELATED
TO PALEONTOLOGICAL RESOURCES CONTINUED

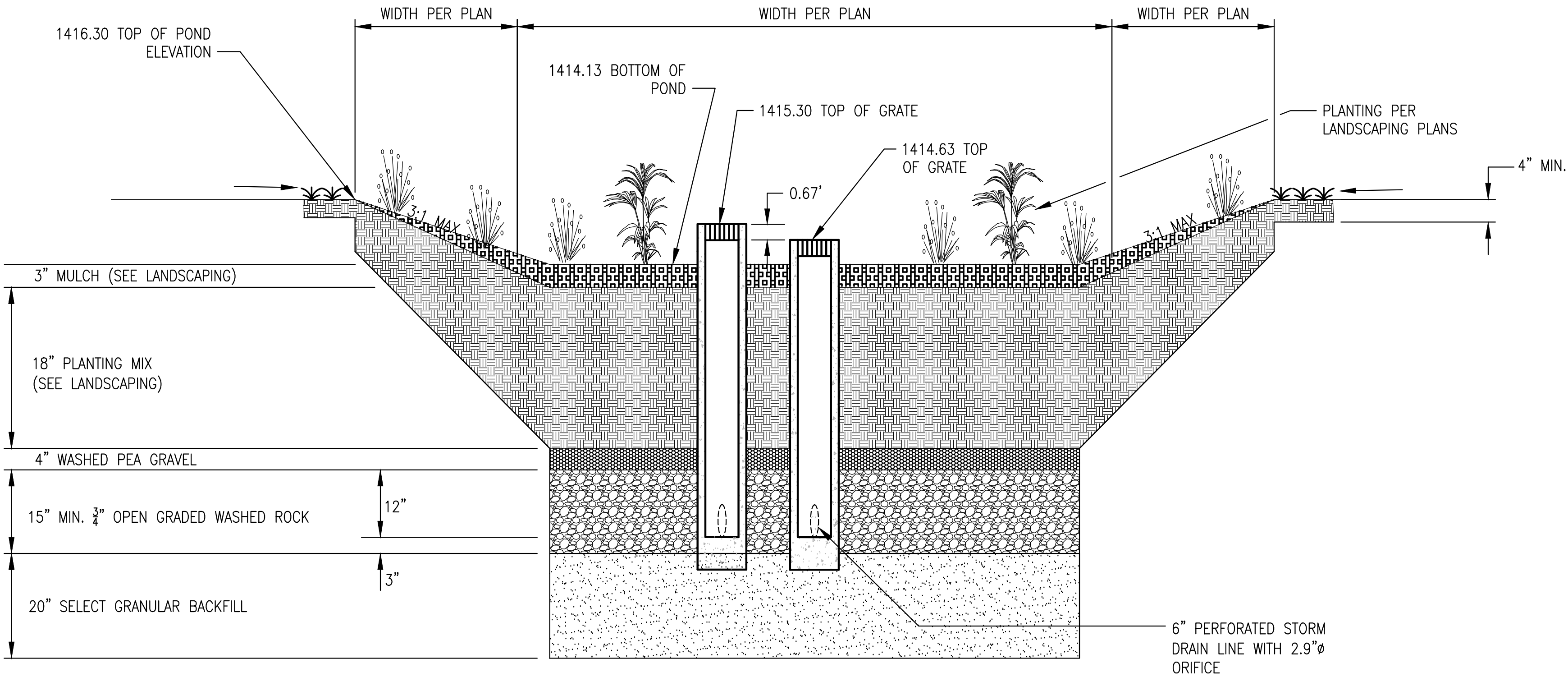
- PREPARE A FINAL PALEONTOLOGICAL RESOURCES MITIGATION PROGRAM REPORT SUMMARIZING THE FIELD AND TABORATORY METHODS USED, THE STRATIGRAPHIC UNITS INSPECTED, THE TYPES OF FOSSILS RECOVERED, AND THE SIGNIFICANCE OF THE CURATED COLLECTION.
- SUBMIT A DETAILED REPORT PREPARED BY THE QUALIFIED PALEONTOLOGIST IN THE FORMAT PROVIDED IN APPENDIX * OF THE GUIDELINES FOR DETERMINING SIGNIFICANCE FOR PALEONTOLOGICAL RESOURCES AND DOCUMENTING CURATION OF THE COLLECTED FOSSILS AND IDENTIFYING WHICH ACCREDITED INSTITUTION HAS AGREED TO ACCEPT THE CURATED FOSSILS;
- SUBMITTING TWO HARD COPIES OF THE FINAL PALEONTOLOGICAL RESOURCES MITIGATION REPORT TO THE DIRECTOR OF PDS FOR FINAL APPROVAL OF THE MITIGATION, AND SUBMIT AN ELECTRONIC COPY OF THE COMPLETE REPORT IN MICROSOFT WORD ON A CD. SUBMIT ONE COPY OF THE REPORT TO THE SAN DIEGO NATURAL HISTORY MUSEUM AND ONE COPY TO THE INSTITUTION THAT RECEIVED THE FOSSILS. [PDS FEE]
- SUBMIT PROOF OF TRANSFER OF PALEONTOLOGICAL RESOURCES, IN THE FORM OF A LETTER, FROM THE DIRECTOR OF THE PALEONTOLOGY DEPARTMENT OF THE ACCREDITED INSTITUTION TO THE DIRECTOR OF PDS VERIFYING THAT THE CURATED FOSSILS FROM THE PROJECT SITE HAVE BEEN RECEIVED BY THE INSTITUTION. [PDS FEE]

NOTES:

- UNDERGROUND UTILITIES AS SHOWN ARE FROM AVAILABLE DRAWINGS SUPPLEMENTED BY OBSERVED ALIGNMENTS WITH SURFACE MANHOLES, VALVES, ETC. CONTRACTOR TO VERIFY EXACT LOCATION, DEPTH AND SIZE OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. SURFACE ITEMS SHOWN ARE FROM AERIAL TOPOGRAPHY, COMPLETED BY SAN-LO AERIAL SURVEYS JULY 25, 2013. ANY OBSERVED VARIATIONS FROM PLANS OR UTILITIES THAT ARE FOUND WHICH ARE NOT SHOWN ON PLANS SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE PROJECT MANAGER AND ENGINEER OF WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MONUMENTATION AND/ OR BENCHMARKS WHICH WILL BE DISTURBED OR DESTROYED BY CONSTRUCTION. SUCH POINTS SHALL BE REFERENCED AND REPLACED WITH APPROPRIATE MONUMENTATION BY A LICENSED LAND SURVEYOR OR A REGISTERED CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED BY A LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER AS REQUIRED BY THE LAND SURVEYOR'S ACT.
- A BOUNDARY SURVEY WAS NOT PERFORMED.

ABBREVIATIONS

AC	ASPHALT CONCRETE
CB	CATCH BASIN
C	CENTERLINE
CONC	CONCRETE
Ø	DIAMETER
FF	FINISH FLOOR
FH	FIRE HYDRANT
FL	FLOW LINE
FS	FINISH SURFACE
GVW	GATE VALVE WATER
IE	INVERT ELEVATION
P	PROPERTY LINE
RCP	REINFORCE CONCRETE PIPE
RPPB	REDUCED PRESSURE BACKFLOW PREVENTOR
SCO	SEWER CLEANOUT
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
S	SEWER
SMH	SEWER MANHOLE
TC	TOP OF CURB
TF	TOP OF FOOTING
TG	TOP OF GRATE
TW	TOP OF WALL
TYP	TYPICAL
W/	WITH
W	WATER



(A) BIO-FILTRATION WITH PARTIAL RETENTION – SECTION A-A
C-1 NO SCALE

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