



City of La Habra

CITY HALL – ENGINEERING DIVISION

"A Caring Community"

110 E. La Habra Boulevard
 Post Office Box 337
 La Habra, CA 90633-0785
 Office: (562) 383-4151

August 9, 2021

ADDENDUM NO. 1

**FOR: PARK LA HABRA MOBILE HOMES PARK AND VIEW PARK
 MOBILE HOME ESTATES PARK STREET IMPROVEMENTS
 CITY PROJECT NO. 3-R-17**

To all prospective bidders and plan holders for PARK LA HABRA MOBILE HOMES PARK AND VIEW PARK MOBILE HOME ESTATES PARK STREET IMPROVEMENTS, CITY PROJECT NO. 3-R-17.

The intent of this Addendum No. 1 is to include the following revisions, additions and/or deletions; and is hereby made a part of the bid documents.

- A. The 'Specifications for PARK LA HABRA MOBILE HOMES PARK AND VIEW PARK MOBILE HOME ESTATES PARK STREET IMPROVEMENTS, CITY PROJECT NO. 3-R-17' shall be referred to herein as the 'Specifications'.
1. To Specifications, Cover Sheet: Delete date shown as Bid Opening Date and replace with the following:
 Bid Opening: Wednesday, **August 18, 2021**, at 2:00 PM.
 2. To Specifications, Notice Inviting Bids, Page A-2, Paragraph 2 "Date of Opening Bids" First Sentence: Delete first sentence and replace with the following:
 Bids will be received at the Office of the City Clerk of the City of La Habra until **2:00 P.M. on Wednesday, August 18, 2021**, at which time and place the bids will be publicly opened and read aloud.
 3. To Specifications, Special Provisions, Page C-23, Section 9, Article 9.01 Work Schedule: Add the following:
 Contractor shall make sure their work schedule includes the need to provide entry/exit access to each Mobile Home Park AT ALL times.
 4. To Specifications, Special Provisions, Page C-26, Section 11, Article 11.01, Subdivision 11.01.2 Order of Work: Add the following:
 Contractor shall make sure when determining the order of work, access to the entry/exit of each Mobile Home Park remains open AT ALL times.

5. To Specifications, Special Provisions, Page C-42, Section 12, Article 12.06 Sawcut and Remove 8" Full Depth Structural Section: Add the following:
Contractor shall make sure when determining the quantity of work completed in a day, access to the entry/exit of each Mobile Home Park remains open AT ALL times.
6. To Specifications, Special Provisions, Page C-43, Section 12, Article 12.07 Sawcut and Remove 12" Full Depth Structural Section: Add the following:
Contractor shall make sure when determining the quantity of work completed in a day, access to the entry/exit of each Mobile Home Park remains open AT ALL times.
7. To Specifications, Special Provisions, Page C-44, Section 12, Article 12.08 Sawcut and Remove 14" Full Depth Structural Section: Add the following:
Contractor shall make sure when determining the quantity of work completed in a day, access to the entry/exit of each Mobile Home Park remains open AT ALL times.
8. To Specifications, Special Provisions, Page C-44, Section 12, Article 12.09 Furnish and Construct 2" AC (Type C2-PG 64-10): Add the following:
Contractor shall make sure when determining the quantity of work completed in a day, access to the entry/exit of each Mobile Home Park remains open AT ALL times.
9. To Specifications, Special Provisions, Page C-47, Section 12, Article 12.12 Furnish and Construct 6" AC (Type B-PF 64010): Add the following:
Contractor shall make sure when determining the quantity of work completed in a day, access to the entry/exit of each Mobile Home Park remains open AT ALL times.
10. To Specifications, Special Provisions, Page C-48, Section 12, Article 12.13 Furnish and Construct 6" Compacted Crushed Miscellaneous Base (CMB): Add the following:
Contractor shall make sure when determining the quantity of work completed in a day, access to the entry/exit of each Mobile Home Park remains open AT ALL times.
11. To Specifications, Special Provisions, Page C-48, Section 12, Article 12.15 Furnish and Construct 2' Wide PCC Longitudinal Gutter: Add the following:
Contractor shall make sure when determining the quantity of work completed in a day, access to the entry/exit of each Mobile Home Park remains open AT ALL times.
12. To Specifications, Special Provisions, Page C-49, Section 12, Article 12.18 Furnish and Construct Alhambra Foundry A-2446, 6" Wide Trench Drain or Approved Equal with 4" Steel Connector Pipe: Add the following:
Contractor shall make sure when determining the quantity of work completed in a day, access to the entry/exit of each Mobile Home Park remains open AT ALL times.

B. Bidders Questions and Clarification

Q1) Is there a pre-bid meeting or job walk required for this project?

A1) No, there is not a scheduled pre-bid meeting or job walk required for this project. As mentioned in the Notice Inviting Bids (B-3): "*Bidders must satisfy themselves by personal examination of the location of the proposed work and by personal examination of the proposed contract documents as to the actual conditions and the requirements of this work and shall not at any time after submission of the bid, dispute, complain or assert that there was any misunderstanding in regard to the nature or the amount of work to be done unless a written change in these specifications or contract or written clarification thereof has been issued by the City of La Habra*".

Q2) Can you send over test results for arsenic levels in the soil? The soils report does not address arsenic and is mentioned many times in the specification.

A2) The soils report included in the appendix did not test for arsenic levels, so in the case that high arsenic levels are in fact encountered, it is mentioned in Article 11.15, 12.05, 12.06, 12.07 and 12.08: *“Contractor is advised that pavement fabric and soil with high arsenic levels may be encountered. The Contractor shall be responsible for removal and disposal of pavement fabric and soil with high arsenic levels at no additional expense to the CITY”*.

An acknowledgment of receipt of this Addendum No. 1 shall be entered on Page D-11 of the Bid Proposal Section D. Failure to provide such acknowledgment shall render the bid as non-responsive and subject to rejection.

Date: August 9, 2021

BY ORDER OF THE CITY OF LA HABRA

BY:



Christopher L. Johansen, P.E.
City Engineer

**CITY OF LA HABRA
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION**



110 E. LA HABRA BOULEVARD
LA HABRA, CA 90631
(562) 383-4151

**SPECIFICATIONS FOR
PARK LA HABRA MOBILE HOMES PARK AND
VIEW PARK MOBILE HOME ESTATES PARK
STREET IMPROVEMENTS
CITY PROJECT NO. 3-R-17**

CITY MANAGER

JIM SADRO

LA HABRA CITY COUNCIL

MAYOR
MAYOR PRO TEM
COUNCIL MEMBER
COUNCIL MEMBER
COUNCIL MEMBER

ROSE ESPINOZA
JOSE MEDRANO
TIM SHAW
JAMES GOMEZ
STEVE SIMONIAN

BID OPENING: Wednesday, August 11, 2021 at 2:00 PM

PLANS AND SPECIFICATIONS:
PICKED UP: \$35.00
MAILED: \$45.00

**CITY OF LA HABRA
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION**



110 E. LA HABRA BOULEVARD
LA HABRA, CA 90631
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**SPECIFICATIONS FOR
PARK LA HABRA MOBILE HOMES PARK AND
VIEW PARK MOBILE HOME ESTATES PARK
STREET IMPROVEMENTS
CITY PROJECT NO. 3-R-17**

JULY 2021

APPROVED BY:

A handwritten signature in blue ink, reading 'Christopher L. Johansen', is written over a horizontal line.

**CHRISTOPHER L. JOHANSEN, P.E.
CITY ENGINEER**

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SECTION A

NOTICE INVITING BIDS

CITY OF LA HABRA

NOTICE INVITING BIDS

NOTICE IS HEREBY GIVEN that sealed bids will be received by the City Clerk of the City of La Habra, California for furnishing all, labor, services, materials, tools, equipment, supplies, transportation, utilities and all other items and facilities necessary therefor as provided in the Contract Documents for the: **PARK LA HABRA MOBILE HOMES PARK AND VIEW PARK MOBILE HOME ESTATES PARK STREET IMPROVEMENTS, CITY PROJECT NO. 3-R-17** in strict compliance with the specifications, plans and contract documents on file at the Office of the City Clerk of the City of La Habra.

DATE OF OPENING BIDS: Bids will be received at the Office of the City Clerk of the City of La Habra until **2:00 P.M. on Wednesday, August 11, 2021**, at which time and place the bids will be publicly opened and read aloud. Bids shall be submitted in sealed envelopes marked on the outside: **“PARK LA HABRA MOBILE HOMES PARK AND VIEW PARK MOBILE HOME ESTATES PARK STREET IMPROVEMENTS, CITY PROJECT NO. 3-R-17. DO NOT OPEN WITH REGULAR MAIL.”**

LOCATION OF WORK: The work to be constructed hereunder is located at 1731 and 1750 West Lambert Road in the City of La Habra, County of Orange. Work to be done is illustrated on plans attached to these specifications.

DESCRIPTION OF WORK: The work comprises the furnishing of all materials, equipment, tools, labor and incidentals as required by the Plans, Specifications and Contract Documents for the above stated project. The general items of work to be performed hereunder consist of but not be limited to **Mobilization; Storm Water Best Management Practices; Traffic Control; Construction Survey, Staking and Monument Perpetuation; Excavation and Disposal; Cold Mill; AC Pavement; Crushed Miscellaneous Base; 2' Wide Longitudinal Gutter; Rolled Curb and Gutter; PCC Pavement; Trench Drain; Parkway Drain; Speed Humps; Local Depression; Detectable Warning Truncated Domes; Adjust Utility Pull Boxes, Water Valves and Manholes to Grade; Striping and Pavement Markers; Signage and Posts; Wheel Stops;** and all incidental work so indicated on the plans, specifications and tables, and required for the proposed improvements.

CONTRACTOR'S LICENSE: The City of La Habra has determined that a Class **“A”** Contractor's License is required for this project.

COMPLETION OF WORK: All work shall be completed within **Sixty (60)** working days from the start date specified in the Notice To Proceed.

AWARD OF CONTRACT: The City of La Habra reserves the right, after opening the bids, to reject any or all bids, waive any informality or irregularity in such bids, or to award to the lowest responsible bidder and reject all other bids.

PROPOSAL GUARANTEE AND BONDS: Each bid must be accompanied by a certified cashier's check or by a corporate surety bond on the form furnished by the City of La Habra, as guarantee that the bidder will, if an award is made to him in accordance with the terms of his bid, promptly secure Worker's Compensation Insurance and Liability Insurance, execute the contract in the required form and furnish satisfactory bonds for the faithful performance of the contract and for the payment of claims of materialmen and workers thereunder. Said check or bidder's bond shall be in an amount of not less than ten percent (10%) of the amount of the bid. The Faithful Performance Bond shall be not less than one hundred percent (100%) of the total amount of the bid price named in the contract. The Payment Bond shall be not less than one hundred percent (100%) of the total amount of the bid price named in the contract. The City of La Habra reserves the right to reject any bond if, in the opinion of the Engineer, the Surety's acknowledgment is not in the form included in the contract documents or in another form substantially as prescribed by law.

PREVAILING RATES OF WAGES: Pursuant to the provisions of Section 1773 of the Labor Code of the State of California, the Director of Industrial Relations has ascertained the general prevailing rate of wages and employer payments for health and welfare, vacation, pension and similar purposes applicable to the work to be done. A copy of said wage rates is available on-line at:

<https://www.dir.ca.gov/dlsr/DPreWageDetermination.htm>

The Contractor and all subcontractors are responsible to pay the prevailing rates of wages that are specified within ten (10) calendar days before the bid open day and shall post a copy of said wage rates at the project site. The statutory provisions for penalties for failure to pay prevailing wages will be enforced (Labor Code §1775) and the statutory provisions for failure to comply with the States' wage and hour laws will be enforced (Labor Code §1813).

DEBARMENT: No Contractor or Subcontractor may be awarded as a contractor on a bid proposal if they have been Debarred by the State pursuant to Labor Code Sections 1777.1 and 1777.7 and Public Contracts Code Section 6109.

APPRENTICE: The Contractor shall comply with all laws, rules, regulations, and all the requirements of the Labor Code including, but not limited to, Section 1776, 1777.5, and 1777.6 of the California Labor Code.

CONTRACT DOCUMENTS: The Contract Documents shall consist of the following: Notice Inviting Bids; Instructions to Bidders; Proposal; Bidder's Information; Bid Schedule; Acknowledgement of Addenda Received; References; DBE Bidder's List; Violations of Federal, State, or Local Laws; Disqualification or Debarment; List of Subcontractors; Bid Security Form; Bid Bond; Non-Collusion Affidavit; Worker's Compensation Certificate; Public Contract Code Section 10285.1 Statement; Public Contract Code Section 10162 Questionnaire; Public Contract Code Section 10232 Statement; Agreement; Faithful Performance Bond; Payment Bond; Certification of Compliance; Special Provisions; Drawings; and the Standard Specifications for Public Works Construction, latest edition and supplements thereto, made a part by reference,

together with all additions, deletions, modifications or interpretations of any of said documents, all of which are hereby made a part of this Notice Inviting Bids.

Specifications are available for inspection, without charge, at the Office of the City Engineer of the City of La Habra.

Complete sets of said plans, specifications, and bid documents may be purchased at thirty-five dollars (\$35.00) per set and are obtainable from the City Engineer of the City of La Habra, 110 E. La Habra Blvd, La Habra, California. An additional ten dollars (\$10.00) shall be charged for requests by mail. No refund shall be made for sets of said plans, specifications, and bid documents returned.

ADDRESS AND MARKING OF PROPOSAL: The envelope enclosing the proposal shall be sealed and addressed to the City Clerk and hand delivered to the City Clerk at the Civic Center, 110 E. La Habra Blvd (Administration Department), or mailed to City Clerk, Civic Center, 110 E. La Habra Blvd, La Habra, California 90631. The envelope shall be plainly marked in the upper left-hand corner with the name and address of the bidder and shall bear the words "Proposal For" followed by the title of the specifications for the work, and the date and hour of opening bids. The certified or cashier's check, money order, or bidder's bond shall be enclosed in the same envelope with the proposal.

DEPARTMENT OF INDUSTRIAL RELATIONS (DIR) REQUIREMENT: No Contractor or Subcontractor may be listed on a bid proposal for a public works project unless registered with the Department of Industrial Relations (DIR) pursuant to Labor Code 1725.5 and Senate Bill 854. Payroll documents for the contractor and subcontractors should be submitted and registered on time with the DIR.

Under California Labor Code Section 1771.1, in order to be awarded and to perform work on public works projects, prime contractors and subcontractors must possess and maintain registration with the Department of Industrial Relations (DIR) at <https://www.dir.ca.gov/public-works/contractor-registration.html>. This is a separate requirement from the Contractors State License Board (CSLB) licensing requirement. See the Special Provisions for additional details.

SUBMISSION OF QUESTIONS:

- Questions received less than three (3) days prior to the date for Opening of Bids may not be considered.
- Questions or clarifications deemed by the City to be material shall be answered via issuance of an addendum and posted to the City's online bidding service.
- Only questions answered by formal written addenda shall be binding. Oral and other interpretations or clarifications shall be without legal effect. It is the Bidder's responsibility to be informed of any issued addenda and to include all such information in its Bid.
- Any questions regarding this solicitation shall be submitted electronically to: rgarcia@lahabraca.gov.

SECTION B

INSTRUCTIONS TO BIDDERS

CITY OF LA HABRA

INSTRUCTIONS TO BIDDERS

The following instructions and conditions apply to the attached bid and the bidder acknowledges the acceptance thereof by signing and filing said bid.

Each bidder shall state whether he is an individual, firm or corporation; if firm, give name of each member; if a corporation, give name of president, secretary, treasurer and manager.

Proposals shall be submitted to the City of La Habra on forms prepared and furnished in the bid documents, or as provided by the Engineering Office of the City of La Habra. When presented, they must be completely made out in the manner and form indicated therein, showing the proposed prices clearly and legibly and must be properly signed by the bidder. Proposals presented otherwise may be rejected.

Each proposal so submitted, together with the required proposal guarantee hereinafter prescribed, shall be presented under sealed cover and must be filed prior to the time and place designated in the Notice Inviting Bids. A proposal so presented, however, may be withdrawn by the bidder provided the request therefor is made in writing, is signed by the bidder or his authorized representative and is filed prior to the time fixed for the opening of bids. The withdrawal of a bid proposal does not prejudice the right of the bidder to file a new bid.

All proposals submitted as hereinabove prescribed will be publicly opened and read at the time and place indicated in the Notice Inviting Bids.

Bids are required for the entire work. The amount of the bid for comparison purposes will be the total of all items.

The bidder shall set forth for each item of work, in words and in clearly legible figures, a unit price and an amount for the item in the respective space provided for this purpose. In the case of unit price items, the amount set forth under the "AMOUNT" column shall be the extension of the unit price bid on the basis of the estimated quantity for the item. In case of discrepancy between the words and figures, the words shall prevail.

In case of discrepancy between the "Unit Price" and the "Amount" set forth for the item, the Unit Price shall prevail. However, if the amount set forth as a Unit Price is ambiguous, unintelligible or uncertain for any cause or is omitted or in the case where the Unit Price is the same amount as the entry in the "AMOUNT" column for the item, the "AMOUNT" price shall prevail in accordance with the following:

- (1) As to lump sum items, the amount set forth in the "AMOUNT" column shall be the unit price.
- (2) As to unit price items, the amount set forth in the "AMOUNT" column shall be divided by the estimated quantity for the item and the price thus obtained shall be the unit price.

In case of discrepancy between the sum of the individual “AMOUNT” prices, and the Total Bid Price, the sum of the individual “AMOUNT” prices will prevail.

Bidders must satisfy themselves by personal examination of the location of the proposed work and by personal examination of the proposed contract documents as to the actual conditions and the requirements of this work and shall not at any time after submission of the bid dispute, complain or assert that there was any misunderstanding in regard to the nature or the amount of work to be done unless a written change in these specifications or contract or written clarification thereof has been issued by the City of La Habra.

Each bid must be in a sealed envelope which is to be clearly marked so as to identify it as a bid (such as “Sealed Bid - do not open with regular mail”), giving the number and name of the project or specification and the name of the bidder. These instructions are particularly necessary if your bid is transmitted by mail. Failure to identify the project or to address it to the City Clerk, Civic Center, 110 E. La Habra Blvd, La Habra, California 90631, Attention City Clerk, will result in the opening of the envelopes with the regular mail and may thereby void the bid.

The City Council will award the contract to the lowest responsible bidder, however, said Council reserves the right to reject any or all bids, to waive any informality in the bids received and, if necessary, to take said bids under advisement for a period not to exceed sixty (60) days including lead-time.

All proposal requirements and conditions as set forth in the Standard Specifications shall apply hereto.

APPROXIMATE ESTIMATE: The quantities shown in the proposal form and in the estimate included in the bid documents shall be considered as approximate only, being listed therein for the purpose of serving as a general indication of the amount of work or materials to be performed or furnished as a basis for the comparison of bids. The Council does not guarantee nor agree, either expressly or by implication, that the actual amounts required will correspond therewith, but reserves the right to increase or decrease the amount of any item, portion of work to be performed or material to be furnished, or to omit any such item or portion, in accordance with the provisions relative thereto set forth in the bid documents or Standard Specifications under which the work is to be constructed, without in any way invalidating the contract should such increase, decrease or omission be deemed necessary or expedient. The City of La Habra reserves the right to increase or decrease the amount of any item as necessary due to budgetary requirements.

DISADVANTAGED BUSINESS ENTERPRISE (DBE) REQUIREMENTS: The City of La Habra requires that Disadvantaged Business Enterprises (DBE's) have the opportunity to participate in public works projects. To assist the City of La Habra in establishing future Annual Anticipated DBE Participation Level (AADPL), all contractors are required to submit a list of all subcontractors and suppliers, whether DBE or not, contacted during preparation of the bid.

SECTION C

SPECIAL PROVISIONS

SPECIAL PROVISIONS

SECTION 1. DEFINITION OF TERMS

CITY: The City of La Habra

CITY COUNCIL: The City Council of the City of La Habra.

ENGINEER: Any reference to the “Engineer” in the specifications shall be construed to mean the City Engineer of the City of La Habra or his authorized agents.

BIDDER: Any individual, firm or corporation submitting a bid to furnish the materials and equipment and perform the work herein specified, properly made out on the form furnished by the City Engineer, duly executed by the bidder and enclosed within a sealed envelope directed to the City Clerk, Civic Center, 110 E. La Habra Blvd., La Habra, California 90631.

BID FORMS: The blank forms prepared by the City of La Habra on which the bidder must submit the bid.

CONTRACTOR: The bidder whose bid is accepted and to whom the contract is awarded.

CONTRACT: The Specifications, Special Provisions, the notice inviting bids, the bid and addenda of the Contract, and the agreement entered into pursuant thereto shall constitute the Contract between the City of La Habra and the Contractor.

LABORATORY: The designated laboratory authorized by the Engineer to test materials and work involved in the contract.

THE WORK: All the work required to be performed under the contract.

GENERAL CONSTRUCTION TERMS: Unless otherwise specifically defined herein or unless the content requires a different meaning, all words, terms and phrases having a well-known or technical meaning shall be so construed.

USE OF PRONOUNS: Words used herein in the masculine gender include the feminine and neuter and vice versa; the singular number includes the plural and the plural the singular. The word “person” includes a corporation, association or partnership.

SECTION: The part into which these Special Provisions are divided. Each section is designated by a whole number preceding its title.

ARTICLES: The parts into which sections are divided. Each article is designated by a number preceding its title, the first two figures to the right of the decimal point being the number of the article and the figures or figure to the left of the decimal point being the number of the section of which such article is a part. Thus: Article 11.05 indicates Article 5 of Section 11.

SUBDIVISIONS: The parts into which articles are divided. Each subdivision is designated by a number preceding its title, the figure or figures to the right of the article number being the number of the subdivision. Thus: Subdivision 11.05.2 indicates Subdivision 2 of Article 5 of Section 11.

STANDARD SPECIFICATIONS: The document entitled "Standard Specifications for Public Works Construction", latest edition and supplements thereto, are hereinafter referred to as the Standard Specifications.

Other terms appearing in the Standard Specifications shall have the intent and meaning specified in Section 1 "General" of the Standard Specifications.

In case of conflict between the Standard Specifications and these Special Provisions, these Special Provisions shall take precedence over and be used in lieu of such conflicting portions of the Standard Specifications.

SECTION 2. REQUIREMENTS AND CONDITIONS

ARTICLE 2.01 EXAMINATION OF PLANS, SPECIFICATIONS, SPECIAL PROVISIONS, AND WORKSITE: Bidders must satisfy themselves by personal examination of the proposed work site and by such other means as they may prefer as to the actual conditions and requirements of the work. Bidders shall not at any time after submission of the bid, dispute, complain or assert that there was any misunderstanding in regard to the nature or amount of work to be done.

The CITY, in accordance with Title VI of the Civil Rights Act of 1964 (78 Stat 252) and the Regulations of the Department of Commerce (15 C.F.C., Part 8), issued pursuant to such Act, hereby notifies all bidders that it will affirmatively insure that the contract entered into pursuant to this advertisement will be awarded to the lowest responsible bidder without discrimination of the grounds of race, color or national origin.

ARTICLE 2.02 BID FORMS: All bids submitted shall be made on the blank forms provided with the bid documents. Bids submitted on forms other than those provided with the bid documents shall be rejected. All bids shall give the price bid both in writing and figures and shall be signed by the bidder with his address. Bids shall be enclosed in a sealed envelope directed to the City Clerk, Civic Center, 110 E. La Habra Blvd, La Habra, California 90631.

ARTICLE 2.03 IRREGULAR BIDS: Bids may be rejected if they show any alterations of form, additions not called for, conditional bids, incomplete bids, erasures or irregularities of any kind.

ARTICLE 2.04 DISQUALIFICATION OF BIDDERS: The CITY COUNCIL may reject any and all bids should it deem this for the public good and the bid of any party who has been delinquent or unfaithful in any former contract with the CITY, and may reject all bids other than

the lowest bid of any responsible bidder and may award the contract for said work or improvement to the lowest responsible bidder at the prices named in his bid.

ARTICLE 2.05 MATERIAL GUARANTEE: Before any bid is accepted, the bidder may be required to furnish a complete statement of the origin, composition and manufacture of any or all materials to be used in the construction of the work, together with samples which may be subjected to the tests provided for in these Specifications or in the Special Provisions to determine their quality and fitness for the work.

ARTICLE 2.06 BONDS: In lieu of Section 1-7.2 "Contract Bonds" of the Standard Specifications, the Contractor, simultaneously with the execution of the Agreement, shall furnish a surety bond in an amount equal to one hundred (100) percent of the contract price as security for the faithful performance of the contract and a separate surety bond in an amount equal to one hundred (100) percent of the contract price as security for the payment of all persons performing labor and furnishing materials in connection with the contract. Said bonds shall be secured from a Surety Company satisfactory to the CITY.

ARTICLE 2.07 BID GUARANTEE:

Subdivision 2.07.1: All bids shall be presented under sealed cover and shall be accompanied by cash, cashier's check, certified check or bidder's bond made payable to the City of La Habra for an amount equal to at least ten percent (10%) of the amount of said bid. No bid will be considered unless such cash, cashier's check, certified check or bidder's bond is enclosed therewith.

Subdivision 2.07.2: Return of Bid Guarantee: The bid guarantee of the bidder or bidders who are being considered for the award of Contract shall be held until the execution of said contract, and shall thereupon be returned to the bidder. Bid guarantee of other bidders will be returned to such bidders upon award of the Contract.

ARTICLE 2.08 AWARD OF CONTRACT: The award of contract, if it be awarded, will be within sixty (60) days of the opening of bids.

ARTICLE 2.09 EXECUTION OF CONTRACT: The contract, construction schedule, and bonds shall be executed and filed by the successful bidder with the City Clerk of the City of La Habra not later than ten (10) days after the award of contract.

All bidders may submit with their bids a sworn statement of their financial responsibility, technical ability and experience. Such sworn statement may be required to be furnished before award is made to any particular bidder.

The CITY COUNCIL may, upon the refusal or failure of successful lowest responsible bidder to accept the contract, award it to the second lowest responsible bidder. If the legislative body awards the contract to the second lowest bidder, the amount of the lowest bidder's security shall be applied by the CITY to the difference between the low bid and the second lowest bid; and the

surplus, if any, shall be returned to the lowest bidder if cash or a check is used, or to the surety company if bidder's bond is used.

ARTICLE 2.10 BEGINNING OF WORK: The Contractor shall begin work from the start date specified in the Notice To Proceed.

ARTICLE 2.11 PLANS AND SPECIFICATIONS: Specifications and bid documents are on file at the Office of the City Engineer, Civic Center, 110 E. La Habra Blvd., La Habra, California. Copies may be purchased from the City Engineer for a fee of thirty-five dollars (**\$35.00**) for each set of specifications and accompanying drawings. An additional fee of ten dollars (**\$10.00**) shall be charged for requests made by mail. No refunds shall be made for sets of said plans, specifications and bid documents returned. A digital copy of said Contract Documents (saved in PDF format) are available free of charge posted at the following website:

<http://www.ciplist.com/>

ARTICLE 2.12 CONTRACT DOCUMENTS: The Contract Documents shall consist of the following: Notice Inviting Bids; Instructions to Bidders; Proposal; Bidder's Information; Bid Schedule; Acknowledgement of Addenda Received; References; DBE Bidder's List; Violations of Federal, State, or Local Laws; Disqualification or Debarment; List of Subcontractors; Bid Security Form; Bid Bond; Non-Collusion Affidavit; Worker's Compensation Certificate; Public Contract Code Section 10285.1 Statement; Public Contract Code Section 10162 Questionnaire; Public Contract Code Section 10232 Statement; Agreement; Faithful Performance Bond; Payment Bond; Certification of Compliance; Special Provisions; Drawings; and the Standard Specifications for Public Works Construction, latest edition and supplements thereto, together with all additions, deletions, modifications, appendices and all addenda as prepared prior to the date of the bid opening setting forth any modifications or interpretations of any said documents are hereby incorporated in and made a part of the Contract Documents.

All Contract Documents are complementary, and what is called for in any one shall be as binding as if called for in all. The intention of the documents is to require a complete and finished piece of work. The Contractor, at his sole cost and expense, shall perform all labor and services and shall furnish all materials, tools, equipment and facilities necessary for the proper execution of the work, with the exception of such items as may be definitely stipulated in the Specifications or on the Plans to be furnished by the CITY. Anything shown on the Plans and not in the Specifications, or in the Specifications and not in the Plans, shall be performed by the Contractor as though shown on both the Plans and Specifications.

Documents which shall be signed and returned to the CITY with Bid Proposal are:

Proposal; Bidder's Information; Bid Schedule; Acknowledgement of Addenda Received; References; DBE Bidder's List; Violations of Federal, State or Local Laws; Disqualification or Debarment; List of Subcontractors; Bid Security Form; Bid Bond; Non-Collusion Affidavit(s) (Principal and Subcontractor); Worker's Compensation

Certificate; Public Contract Code Section 10285.1 Statement; Public Contract Code Section 10162 Questionnaire; and Public Contract Code Section 10232 Statement.

Documents which are to be signed and returned to the CITY by the winning bidder are:

Agreement; Faithful Performance Bond; Payment Bond; Certification of Compliance; Liability Insurance; and Workers Compensation Insurance.

Subdivision 2.12.1 Precedence Of Contract Documents: If there is a conflict between Contract Documents, the order of precedence shall be as follows:

1. Contract
2. Specifications
3. Plans

Within the Specifications, the order of precedence is as follows:

1. Change Orders
2. Addenda
3. Permits from other agencies/Supplemental Agreements
4. Special Provisions
5. Instructions to Bidders
6. Notice Inviting Bids
7. Referenced Standard Drawings
8. Referenced Standard Specifications

With reference to Plans, the order of precedence is as follows:

1. Change Order drawings govern over Addenda and Contract drawings.
2. Addenda drawings govern over contract drawings.
3. Contract drawings govern over shop drawings and Standard drawings.
4. Detail drawings govern over general drawings.
5. Figures govern over scaled dimensions.

ARTICLE 2.13 AUTHORITY OF THE ENGINEER: The Engineer shall have the authority to direct as may be necessary to ensure that the work is in strict compliance with the Contract Documents; determine the quantity, quality and soundness of the work; determine if material and equipment being used is satisfactory; interpret the requirements of the contract; and, make decisions regarding the progress and execution of the work. However, neither the Engineer nor any representative of the Engineer shall have the authority to authorize extra work without prior approval by the CITY COUNCIL. Should any discrepancy appear or any misunderstanding arise as to the importance of anything contained in the Specifications or Plans, the matter shall be referred to the Engineer, who shall decide the same in accordance with the true intent and meaning as construed by him. Any difference or conflicts which may arise between the

Contractor and any other contractor also under the contract administration of the Engineer shall be arbitrated by the Engineer.

ARTICLE 2.14 ACCESS TO WORK: The Engineer, his agents and duly authorized representatives of the CITY shall at all times and for any purpose, have access to the work and the premises used by the Contractor and the Contractor shall provide safe and proper facilities therefor.

ARTICLE 2.15 LEGAL ADDRESS OF THE CONTRACTOR: The address given in the Proposal is hereby designated as the place to which all notices, letters and other communications to the Contractor shall be mailed or delivered. The mailing or delivering to the above-named place of any notice, letter or other communication to the Contractor, shall be deemed sufficient service thereof upon the Contractor. The date of said service shall be the date of such mailing or delivery. Such address may be changed at any time by a written notice signed by the Contractor and delivered to the Engineer.

ARTICLE 2.16 CONTRACTOR'S RESPONSIBILITIES: The Contractor shall be responsible for the safe, efficient and adequate use of equipment during the progress of the work so as to secure the safety of the workers and others. The Contractor is also responsible for the quality of work required and the stipulated rate of progress. It shall be the Contractor's responsibility to perform the work strictly in accordance with the Specifications and Plans or in accordance with modifications as may be made by the Engineer in the form of addendum or written change orders. The presence of the Public Works Inspector does not relieve the Contractor of his obligation to comply with the requirements of the Plans, Specifications and Contract Documents.

The Contractor shall assume the defense of and indemnify and save harmless the CITY and its officers and agents from all claims of any kind arising from his own negligence or that of his agents in the performance of the Contract.

The Contractor shall be responsible for the custody of any material furnished him for the care of all work until its completion and final acceptance. He shall, at his own expense, replace damaged or lost material and repair damaged parts of the work, regardless of cause, or the same may be done at the Contractor's expense by the CITY.

During the progress of the work the Contractor shall keep the worksite in a neat and clean condition and free from any unsightly accumulation of rubbish. If stockpiling is necessary, the material shall be removed or disposed of weekly. He shall remove from the vicinity of the completed work all plant, building, rubbish, unused materials, concrete forms and equipment belonging to him or used under his direction during construction. In the event of his failure to do so, the same may be removed by the CITY at the Contractor's expense.

All operations of the Contractor shall be conducted in such a manner as to avoid unnecessary dust. To this end, the Contractor shall provide equipment, materials, water, and labor to keep all parts of the work adequately sprinkled and dust free as determined by the Engineer. Full compensation for dust control measures and conforming with the provisions of this Section shall

be included in the prices paid for the various contract items of work listed in the Bid Schedule, and no additional compensation will be allowed therefor.

SECTION 3. SCOPE OF WORK

ARTICLE 3.01 WORK TO BE DONE: The Contractor shall for the price bid furnish all the necessary labor, materials, equipment, methods, processes, implements, tools, and machinery except as otherwise specified to perform the required work in a thorough and workmanlike manner in accordance with the plans and specifications, and to the satisfaction of the Engineer.

The general items of work to be performed hereunder consist of but not be limited to **Mobilization; Storm Water Best Management Practices; Traffic Control; Construction Survey, Staking and Monument Perpetuation; Excavation and Disposal; Cold Mill; AC Pavement; Crushed Miscellaneous Base; 2' Wide Longitudinal Gutter; Rolled Curb and Gutter; PCC Pavement; Trench Drain; Parkway Drain; Speed Humps; Local Depression; Detectable Warning Truncated Domes; Adjust Utility Pull Boxes, Water Valves and Manholes to Grade; Striping and Pavement Markers; Signage and Posts; Wheel Stops;** and all incidental work so indicated on the plans, specifications and tables, and required for the proposed improvements.

ARTICLE 3.02 FINAL CLEANING UP: Before acceptance of the work and final payment therefor, the Contractor shall clean the work and all ground occupied by him in connection with the work, of all rubbish, excess materials, equipment and forms. All parts of the work shall be left in a neat and presentable condition.

ARTICLE 3.03 REPAIRS AND REPLACEMENTS: All damage done to existing facilities and improvements by the Contractor shall be repaired by him to the satisfaction of the Engineer. Where sidewalks, curbs or gutters are to be repaired, the repairs shall be made by removing and replacing the entire section back to the nearest scoring lines and not by refinishing the damaged portion.

SECTION 4. CONTROL OF THE WORK

ARTICLE 4.01 COORDINATION OF PLANS, SPECIFICATIONS AND SPECIAL PROVISIONS: These specifications, drawings, special provisions and all supplementary documents are essential parts of the contract. A requirement occurring in one is as binding as though occurring in all. The drawings and specifications are intended to be cooperative and to describe and provide for the workmanlike completion of proposed improvements. Refer to Subdivision 2.12.1 for precedence of Contract Documents.

ARTICLE 4.02 SPECIFICATIONS AND DRAWINGS: The Contractor shall keep at the work site a copy of the Specifications and Plans at all times and provide the Engineer access thereto.

The Contractor shall check all dimensions and quantities on the drawings or schedules herein contained or given to him by the Engineer, and shall notify the Engineer of errors therein which

may be discovered by examining and checking the drawing. He shall not take advantage of any error or omission in these specifications, drawings or schedules, but should such error or omission be discovered, the Contractor shall notify the Engineer and the Contractor shall carry out the Engineer's instructions, as if originally specified.

ARTICLE 4.03 SUPERVISION BY THE CONTRACTOR: The Contractor shall give his personal superintendence to the work, using all his skills and attention in directing the performance of the work or he shall provide a competent, full-time superintendent or foreman with the authority to act on his behalf and whom shall be present to direct the work on the project at all times during its progress. All directions given to the Contractor's superintendent or other authorized supervisory employee shall be as binding as if delivered to the Contractor personally.

ARTICLE 4.04 LABOR: Any overseer, superintendent, laborer or other person employed by the Contractor who shall perform his work in a manner contrary to the specifications shall be discharged immediately and such person shall not again be employed on the project.

ARTICLE 4.05 LINES AND GRADES: The Contractor will set all lines and grades in accordance with the plans and all work done shall conform thereto. The Contractor shall dig all stake holes necessary to give lines and grades. The Contractor shall preserve all stakes set for lines, grades or measurements of the work in their proper places until authorized to remove them by the Engineer. Any expense incurred in replacing stakes which the Contractor or his subordinates may have failed to preserve shall be borne by the Contractor. Unless otherwise noted, the grade between two grade points shall be a straight line between such two points.

ARTICLE 4.06 INSPECTION: The Contractor shall notify the Engineer at least 48 hours in advance of starting or resuming work so that the Engineer can arrange for an assistant engineer or inspector to be present. Failure to give such notice shall be cause for rejection of such work. The Contractor shall furnish the engineers and inspectors reasonable facilities for obtaining such information as may be necessary to give them full information at all times respecting the progress and manner of doing the work and the character of the materials.

Subdivision 4.06.1 Special Inspection Fees: If the Contractor elects to work under this contract more than 8 hours per day and 40 hours per week; or Saturday, Sunday, overtime, or CITY Holidays, the Contractor shall arrange with the Engineer for the required inspection service and pay the special inspections fees which will be charged at the following rates:

Monday through Friday	\$105.00 / hour
Saturday, Sunday, overtime and Holidays	\$140.00 / hour

ARTICLE 4.07 DEFECTIVE WORK OR MATERIALS: Inspection of the work shall not relieve the Contractor of his obligation to fulfill his duty as herein prescribed. Defective work shall be made good by the Contractor. Unsuitable work and materials may be rejected notwithstanding that such work and materials were previously inspected by the Engineer and accepted or estimated for payment. If the work, or any part thereof, is determined to be defective

at any time before final acceptance of the work, the Contractor shall forthwith make good such defect without additional compensation in a manner satisfactory to the Engineer.

If materials furnished and brought upon the job site by the Contractor for use in the work, or selected for the same by him shall be condemned by the Engineer as unsuitable or not in conformity with the Specifications, the Contractor shall forthwith discard such materials and remove them to a satisfactory distance from the vicinity of the work.

If the Contractor fails or neglects to make ordered repairs to defective work, or to remove rejected materials from the work site within ten (10) days after notification by the Engineer, the Engineer acting on behalf of the CITY may make the ordered repairs or remove the condemned materials and deduct the cost thereof from monies due to the Contractor.

ARTICLE 4.08 EQUIPMENT AND PLANT: Equipment not suitable to produce the quality of work required will not be permitted to operate on the project.

Plants, tools and equipment shall be designed and constructed in accordance with general practice for such equipment and shall be of sufficient capacity and of such character to insure the production of sufficient material to take the work to completion within the scheduled time frame. The Contractor shall provide adequate and suitable equipment and plants to meet the above requirements and when ordered by the Engineer shall remove unsuitable equipment from the worksite and discontinue receiving materials from unsatisfactory plants.

ARTICLE 4.09 ADDITIONS OR OMISSIONS OF WORK, LABOR OR MATERIALS:

Subdivision 4.09.1: Additions: The Contractor shall make additional excavations, furnish and place additional imported borrow, plant-mixed surfacing, concrete or do other additional work or furnish other additional materials where the necessity for or the extent of such work or materials does not appear and cannot with reasonable diligence, cost and certainty, be determined in advance or will only be disclosed by the doing of the work or in any contingency which reasonable care and consideration could not be foreseen. Such additional work or materials shall be specified in writing by the Engineer, subject to approval of the CITY COUNCIL, and shall be paid for at the unit prices set for in the contract.

Subdivision 4.09.2: Omissions: The Contractor shall omit any portion of the work, labor or materials required to be done or furnished under the plans and the specifications when the necessity for the omission of said work, labor or materials does not appear and cannot with reasonable certainty, diligence and cost be ascertained in advance or will only be disclosed by the doing of the work or in any contingency which reasonable care and consideration could be foreseen; which said omission of work, labor or materials shall be specified and required in writing by the Engineer, subject to the approval of the CITY COUNCIL, and shall be deducted from the contract price at the unit prices therefore set forth in said contract. Where the contract price is a lump sum, then the cost of the amount deducted shall be proportion of said lump sum such as the quantity of work, labor or materials omitted bears to the quantity upon which said lump sum is based.

Subdivision 4.09.3: Mark-Ups For Extra Work: The Contractor shall use the specified mark ups for all approved extra work:

For General Contractor's work, 15% mark-up for materials and equipment; and 20% mark-up for labor.

For Subcontracted work, 10% mark-up for the first \$5,000; and 5% mark-up for costs in excess of \$5,000.

Subdivision 4.09.4: Tool and Equipment Rental: The rates to be used in determining equipment rental costs shall be as listed in the Caltrans "Labor Surcharge and Equipment Rental Rates" publication in effect at the time of bid.

ARTICLE 4.10 FINAL INSPECTION: The Engineer will not make the final inspection until the work provided and contemplated by the contract has been completed and the final clean-up performed.

ARTICLE 4.11 CONTRACTOR REPORTING REQUIREMENTS: The following items shall be required as a part of Contractor payment requests. Incomplete submittal or omission of any of the following requirements shall be cause for rejection and return of payment requests to the Contractor for correction. All items shall be complete and current to the satisfaction of the Engineer. The Contractor shall provide all information for his own firm as well as each and every subcontractor. Payment requests shall include at least the following items:

- Breakdown of each pay item showing locations and quantities of work requested for payment.
- Certification that the as-built records are current and documented in writing.
- Submission of DBE information including DBE amounts completed to date, DBE providers, Monthly DBE Trucking Utilization Report, and certification that the Contractor is meeting DBE contractual requirements.
- Certified Payroll Reports.
- Updated work schedule.
- All change order requests complete to date, including all Force Account cost supporting documentation.
- Copies of all SWPPP and other Best Management Practices reports, and certification that BMP's are current and implemented.
- Copies of test results (if testing is required of Contractor).
- Survey records, maps, cut sheets, calculations, and other data.
- Subcontractor Change Requests and subcontractor data.
- Other forms or reports as may be required by contract.

ARTICLE 4.12 PENALTIES: Notwithstanding penalty provisions elsewhere in these specifications, the CITY may impose financial penalties in the case of the Contractor not fulfilling his contractual obligations. These obligations include, but are not limited to, performing

work within the time limits of the contract; public notification; implementation of Best Management Practices, SWPPP, and other management plans; maintaining records; notification of the Engineer; traffic control; safety; controlling the work area; maintaining a competent supervisor on site at all times while performing work; surveying; testing; updating of schedules; and other such contractual obligations. The Contractor shall be responsible for all obligations and penalties applied to subcontractors as if he himself were performing the work.

The amount of penalty shall be equal to the daily liquidated damages, prorated for each 15 minute period, or portion of 15 minutes, of contract violation. Each violation shall be additive if multiple violations occur during the same time period.

ARTICLE 4.13 CLEANUP, TRAFFIC CONTROL, SAFETY: The Contractor shall maintain complete liability and responsibility for implementing project site cleanliness, traffic control, and safety at all times. If, in the opinion of the Engineer or his designated representative, there is a condition warranting corrective action by the Contractor, the Contractor will be advised and requested to correct the condition to the satisfaction of the Engineer. This requirement in no way absolves the Contractor of any obligation or duty to provide for the safety of persons and property at all times, nor does it impose any obligation or duty on the Engineer to provide any such services or advisement.

The Contractor's supervisor will not leave the project site until he has personally inspected and verified that all cleanliness, traffic control, and safety conditions are in a suitable condition, and has informed the Engineer that he has performed such an inspection. Likewise, no work may commence at the beginning of the work day until all cleanliness, traffic control, and safety measures and procedures have been reviewed, discussed, and implemented by the supervisor with all of the Contractor's and subcontractor's forces.

In the event that the Contractor does not immediately respond to the Engineer's request for corrective action, and the situation presents a hazard to persons and/or property, the Engineer may cause the work to be corrected by others. Likewise, in the event that the Contractor is not on site, cannot immediately respond, or is otherwise unavailable, the Engineer may cause the work to be corrected by others. If corrective work is performed by others, then the Contractor may be charged for all of the costs, including overhead and indirect costs, required to correct the work. Inspector's costs shall be per Article 4.06 INSPECTION. Engineer's costs shall be 1.5 times the noted Inspector's rate. In addition, the Engineer may impose additional penalties as provided for elsewhere in these specifications.

Full compensation for conforming to the requirements in this article shall be considered as included in the prices bid for the various contract items of work involved and no additional compensation will be allowed therefor.

ARTICLE 4.14 REMOVAL OF PERSONNEL: The Engineer reserves the right to direct the Contractor to remove any specified personnel from the project at any time without reason. If directed, the Contractor shall immediately remove such personnel from the project site, and replace such with another competent person. This requirement shall apply to subcontractor

personnel as if they were the Contractor's personnel. Violation shall be subject to penalties as noted elsewhere in these specifications.

SECTION 5. CONTROL OF MATERIAL

ARTICLE 5.01 DRAWINGS AND INFORMATION REQUIRED OF CONTRACTOR: The Contractor shall before proceeding with the fabrication or erection of structures or appurtenances if called for under the contract and required in its erection thereof, furnish the Engineer with the information regarding same and shall submit to the Engineer for approval drawings, specifications, lists and graphs as required under these specifications. Said drawings, specifications, lists and graphs shall become the property of the CITY. In the event that the Engineer shall find that the drawings, specifications, lists and graphs as submitted by the Contractor, are in accordance with acceptable practice and meet the requirements of these specifications, the Engineer will return one (1) set of drawings and lists with his approval within 10 days after their receipt at the Engineer's office; otherwise, said drawings will be returned to the Contractor within the said 10 day period with a statement of the points wherein they have been found unsatisfactory, in which case, the Contractor at his own expense, shall proceed at once to revise said drawings and lists until they shall be found satisfactory by the Engineer and are approved by him. No fabrication shall be done prior to approval of drawings and lists. The Contractor shall have no claim for damages or extension of time on account of any delay due to revision of drawings as found necessary by the Engineer in order to fulfill the requirements of these specifications; but, regardless of such delays, the Contractor shall be liable to the CITY as provided in the specifications for any failure to complete the work as required by the terms of the contract. Revisions shown on shop drawings shall be considered as changes necessary to meet the requirements of specifications and shall not be taken as the basis of claims for extra work.

The approval of all drawings by the Engineer shall apply to general design only and shall in no way relieve the Contractor from responsibility for errors or omissions contained therein; nor shall said approval operate to waive or modify any provisions or requirement contained in these specifications.

ARTICLE 5.02 SAMPLES AND TESTS: All tests of materials furnished by the Contractor shall be made by a laboratory authorized by the Engineer to make the tests and work involved in the contract. The expense of such tests shall be included in the prices bid for the work.

Tests shall be made in accordance with commonly recognized standards of national organizations and such special methods and tests as are described in the Standard Specifications.

No material shall be used until it has been approved by the Engineer. Samples will be secured and tested whenever necessary to determine the quality of materials.

Whenever reference is made in these specifications to standard tests or requirements of the American Society for Testing Materials, the reference shall be construed to mean the standards that are in effect at the date of these specifications.

ARTICLE 5.03 STORAGE OF MATERIALS: Materials shall be so stored as to insure the preservation of their quality and fitness for the work. When considered necessary by the Engineer, they shall be placed on wooden platforms or other hard, clean surfaces and not on the ground. They shall be placed under cover when so directed. Stored materials shall be so located as to facilitate prompt inspection.

ARTICLE 5.04 SUBSTITUTION OF EQUIVALENTS: On demand of the CITY COUNCIL, the Bidder shall, at his own expense, furnish information or data concerning the article, equipment, material or process offered by him as an equivalent to that specified; and, if the CITY COUNCIL shall so require, the Bidder, at his own expense, shall have the article, equipment, materials or process tested to its quality, strength, physical, chemical or other characteristics, its durability, finish, efficiency or service by a reputable testing engineer or laboratory satisfactory to the CITY COUNCIL.

SECTION 6. LEGAL RELATIONS AND RESPONSIBILITIES

ARTICLE 6.01 LAWS TO BE OBSERVED AND DISPUTE RESOLUTION:

Subdivision 6.01.1 Laws and Regulations: The Contractor shall keep himself fully informed of all Federal and State laws, County and CITY ordinances and regulations which, in any manner, affect those engaged or employed on the work, the materials used in the work or the conduct of the work. If any discrepancy or inconsistency should be discovered in this contract or in the Plans or Specifications herein referred to, in relation to any such law, ordinance or regulation, the Contractor shall forthwith report the same in writing to the Engineer. The Contractor shall, at all times, observe and comply with and shall cause all his agents and employees to observe and comply with all such applicable laws, ordinances and regulations in effect or which may become effective before completion of this contract. He shall protect and indemnify the CITY and its officers and agents against any claim or liability arising from or based on the violations of any such laws, ordinances or regulations whether by himself or by his employees or his subcontractors or their employees.

Except as otherwise explicitly provided in these specifications, all permits and licenses necessary to the prosecution of the work shall be secured by the Contractor at his own expense and he shall pay all taxes properly assessed against his equipment or property used or required in connection with the work.

All state laws, all county and CITY ordinances and regulations now imposed by competent authority and relating to any materials required to be furnished under these specifications and work required to be done hereunder, shall be deemed to be and hereby are made controlling and part of these specifications.

Subdivision 6.01.2 General: The Contractor shall keep himself fully informed of all existing state and national laws and municipal ordinances and regulations which in any manner affect those engaged or employed in the work, or the materials used in the work or which in any

way affect the conduct of the work and of all such orders and decrees of bodies or tribunals having any jurisdiction or authority over the same.

Subdivision 6.01.3 Eight-Hour Law: Eight (8) hours labor constitutes a legal day's work. The Contractor shall forfeit as a penalty twenty-five dollars (\$25.00) for each workman employed in the execution of the contract by the Contractor or any subcontractor under him for each calendar day during which such workman is required or permitted to work more than eight (8) hours in any one calendar day and forty (40) hours in any one calendar week in violation of the provisions of the Labor Code and in particular, Section 1810 to Section 1815 thereof inclusive except that work performed by employees of Contractors in excess of eight (8) hours per day and forty (40) hours during any one week, shall be compensated at not less than one and one-half (1 ½) times the basic rate of pay as provided in Section 1815.

Subdivision 6.01.4 Prevailing Rate of Per Diem Wages: Pursuant to the provisions of Section 1773 of the Labor Code of the State of California, the Director of Industrial Relations has ascertained the general prevailing rate of wages and employer payments for health and welfare, vacation, pension and similar purposes applicable to the work to be done.

The Contractor shall comply with Labor Code Section 1775. In accordance with said section, the Contractor shall forfeit as a penalty to the CITY fifty dollars (\$50.00) for each calendar day, or portion thereof, for each workman paid less than the stipulated prevailing rates for such work or craft in which such workman is employed for any work done under the contract by him or by any subcontractor under him in violation of the provisions of the Labor Code and in particular Labor Code Sections 1770 to 1780, inclusive. In addition to said penalty and pursuant to said Section 1775, the difference between such stipulated prevailing wage rates and the amount paid to each workman for each calendar day or portion thereof for which each workman was paid less than the stipulated prevailing wage rate shall be paid to each workman by the Contractor.

Subdivision 6.01.5 Certified Payroll: Pursuant to Section 1776 of the Labor Code, the Contractor and/or subcontractors shall submit weekly to the CITY for each week in which any contract work is performed a certified copy of all payroll records. Should the Contractor fail to provide such payroll certificates, the CITY may withhold one thousand dollars (\$1,000) for each weekly payroll certificate not received from payment due.

Subdivision 6.01.6 Governing Law, Venue, Dispute Resolution and Attorneys' Fees: This Agreement will be governed by and construed in accordance with laws of the State of California. Specifically, Government Code Section 9204 (A summary of which is set forth in Subdivision 6.01.7). If any disputed portion of the claim is not resolved with the procedure set forth in Subdivision 6.01.7 herein, prior to commencing suit in a court of competent jurisdiction, any unresolved portion of any controversy, dispute or claim arising out of the Agreement will first be submitted to an alternative dispute resolution process as set forth in Subdivision 6.01.8 herein. Any action at law or in equity brought by either of the parties hereto for the purpose of enforcing a right or rights provided for by this Agreement will be tried in a court of competent jurisdiction in the County of Orange, State of California. In the event either party hereto will bring suit to enforce any term of this Agreement or to recover any

damages for and on account of the breach of any term or condition of this Agreement, it is mutually agreed that the prevailing party in such action will recover all costs thereof, including reasonable attorneys' fees, to be set by the court in such action.

Subdivision 6.01.7 Summary of Government Code Section 9204: A “claim” is a separate demand on the CITY by a Contractor on a public works project and sent by registered mail or certified mail with return receipt requested, for one or more of the following:

- A time extension, including relief from penalties for delay;
- Payment by the CITY of money damages under the terms of the contract;
- Payment of an amount that is disputed by the CITY.

Initial Review. The claim must be supported by appropriate documentation. The CITY has forty-five (45) days within which to review the claim and provide the Contractor with a written statement identifying the disputed and undisputed portions of the claim. If the CITY does not issue a written statement, the claim is deemed rejected in its entirety. The CITY will pay any undisputed portion of the claim within sixty (60) days of issuing the statement.

Meet & Confer. If the Contractor disputes the CITY’s written response, or if the CITY does not issue one, the Contractor may request in writing an informal conference to meet and confer for possible settlement of the claim. The CITY will schedule the meet and confer conference within thirty (30) days of this request and provide a written statement identifying the remaining disputed and undisputed portions of the claim within ten (10) business days of the meet and confer. The CITY will pay the undisputed portion within sixty (60) days of issuing this statement.

Mediation. With respect to any disputed portion remaining after the meet and confer, the CITY and Contractor must submit the matter to nonbinding mediation, agree to a mediator within ten (10) business days after issuing the written statement, and share mediation costs equally. If mediation is unsuccessful, then the terms of the public works agreement and applicable law will govern resolution of the dispute.

Miscellaneous Provisions. Amounts not paid by the CITY in a timely manner bear interest at 7% per annum. Subcontractors may submit claims via this procedure through the general contractor. The CITY and Contractor may waive the requirement to mediate, but cannot otherwise waive these claim procedures.

Subdivision 6.01.8 Alternative Dispute Resolution: In the event that there is any controversy, dispute or claim arising out of or relating to this Agreement, which have not been resolved pursuant to the process summarized in Subdivision 6.01.7 herein, the parties hereto will consult and negotiate with each other and, recognizing their mutual interest, attempt to reach a solution satisfactory to both parties. If they do not reach settlement within a period of sixty (60) days, the matter will be submitted to nonbinding arbitration (“Process”) by written notice from either party to the other. The parties will meet and confer in good faith and select an arbitrator that is agreeable to both sides. The Process will be completed no later than one hundred twenty

(120) days (“Process Period”) after tender of the aforementioned written notice, unless the Parties mutually agree to an extension of the Process Period. If the matter is not successfully resolved by the Process, within the Process Period, the parties are free to commence litigation in a court of competent jurisdiction as defined in Subdivision 6.01.6 herein. Any litigation commenced without both parties’ consent prior to the end of the Process Period, will be subject to a stay until the end of the Process Period. The Parties further agree to equally bear the cost of the Process.

ARTICLE 6.02 PERMITS AND LICENSES: The Contractor shall procure all permits and licenses, pay all charges and fees, and give all notice necessary and incident to the due and lawful prosecution of the work. No fee is charged for an Encroachment Permit issued by the CITY for a Public Works Project. The Contractor and his subcontractors shall obtain a CITY Business License.

Full compensation for conforming to the requirements in this article shall be considered as included in the price bid for the various contract items of work involved and no additional compensation will be allowed therefor.

ARTICLE 6.03 PATENTS: The Contractor shall assume all costs arising from use of patented materials, equipment, devices or processes used on or incorporated in the work and agrees to indemnify and save harmless the CITY, the CITY COUNCIL, the City Engineer and their fully authorized representatives from all suits of law or actions of every nature for, or on account of, the use of any patented materials, equipment, devices or processes.

ARTICLE 6.04 PRESERVATION OF PROPERTY: The Contractor shall conduct the operations in a careful and prudent manner to avoid damage to adjacent property.

The Contractor shall preserve and protect all on-site and roadside trees from injury. All trees useful for shade or other purposes shall be cared for by the Contractor and no trees within the limits of project site shall be cut or removed unless indicated on the plans.

All fences along the line of the improvement shall be protected by the Contractor; if they are injured or destroyed they shall be restored to a condition as good as when he entered upon the work. It is required that the Contractor replace in kind or reimburse the owners thereof for all fences, shrubs, buildings and other improvements damaged or removed by the construction operations not shown on the plans.

The Contractor shall preserve and protect from damage to all buildings, pole lines, pipe lines and all direction, warning and mileage signs and any other structures which have been placed within the limits of the project site.

Full compensation for conforming to the requirements in this article shall be considered as included in the price bid for the various contract items of work involved and no additional compensation will be allowed therefor.

ARTICLE 6.05 PRESERVATION OF MONUMENTS: The Contractor shall not disturb any monuments, stakes or sign posts found on the line of the improvement until authorized by the Engineer. The Contractor shall bear the expense of resetting any monument, stakes or sign posts which may be disturbed without authorization from the Engineer. After construction and prior to final acceptance, the Contractor's land surveyor or qualified Civil Engineer shall re-survey all field monuments and centerline ties within the construction zone, prepare tie sheets and Corner Record sheets, and file them with the City Engineer for review. After review by the City Engineer, the land surveyor shall file the Corner Records with the Orange County Land Surveyors Office as required by law, and file certified copies of the Corner Records with the City Engineer. Project retention will not be released until all records are recorded with the County Land Surveyor Office.

ARTICLE 6.06 RESPONSIBILITY FOR DAMAGE: During the progress of the work, the CITY will not be answerable or accountable, in any manner, for any loss or damage that may happen to the work or any part thereof; or for injury to any person or persons, either workmen or the public, or for damage to adjoining property from any cause which might have been prevented by the Contractor or his workmen or any one employed by him, against all of which injuries or damages to persons and property the Contractor having control over such work must properly guard. The Contractor shall be responsible for any damage to any person or property resulting from defects or obstructions or from any causes whatsoever during the progress of the work, or at any time before its completion and final acceptance and shall indemnify and save harmless the CITY and/or its officers and/or its employees from all suits or actions of every name and description brought for or on account of any injuries or damages received or sustained by any person or persons by or from the Contractor, his servants or agents in the construction of the work or by or in consequence of any negligence in guarding the same in improper materials used in its construction or by or on account of any act or omission of the Contractor or his agents.

ARTICLE 6.07 COOPERATION BETWEEN CONTRACTORS: Where two or more contractors are employed on related or adjacent work, each shall conduct his operations in such a manner as not to cause any unnecessary delay or hindrance to the other. Each contractor shall be responsible to the other for all damage to work, person or property or for loss caused by failure to finish the work within the time specified for completion.

ARTICLE 6.08 CONTRACTOR'S RESPONSIBILITY FOR WORK: Except as provided above, until the formal acceptance of the work by the CITY COUNCIL, the Contractor shall have the charge and care thereof and shall bear the risk of injury or damage to any part thereof by the action of the elements or from any other cause whether arising from the execution or from the non-execution of the work. The Contractor shall rebuild, repair, restore and make good all injuries or damages to any portion of the work occasioned by any of the above causes before its completion and acceptance and shall bear the expense thereof except for such injuries or damages as occasioned by acts of the Federal Government and the public enemy. In case of suspension of work from any cause whatever, the Contractor shall be responsible for all materials and shall properly store them, if necessary, and shall provide suitable drainage of the project site and erect temporary structures where necessary.

ARTICLE 6.09 NO PERSONAL LIABILITY: Before the contract is executed on behalf of the CITY, a bidder to whom the contract has been awarded shall furnish to the CITY a policy or certificate of protective liability insurance in which the CITY shall be named as an additional insured with the bidder. The policy shall insure the CITY, his officers, and his employees; the bidder, his employees and his subcontractors and their employees, their heirs, agents and employees; while acting within the scope of their duties against all claims arising out of or in connection with the work to be performed and shall remain in full force and effect until the work is accepted by the CITY. The policy shall provide for the following limits:

Public liability insurance in an amount not less than \$1,000,000.00 for injuries including accidental death for any one person and subject to the same limit for each person in an amount not less than \$1,000,000.00 on account of any one accident.

Property damage insurance in an amount not less than \$1,000,000.00 each occurrence and \$1,000,000.00 aggregate.

All insurance issued in compliance with this section shall be insured in the form and by the insurer or insurers satisfactory to and first approved by the CITY in writing. The Contractor shall not allow any subcontractor to commence work on his subcontract until the subcontractor has secured all required bonds and insurance.

ARTICLE 6.10 WORKER'S COMPENSATION INSURANCE: The Contractor shall procure and maintain Worker's Compensation Insurance as required by applicable state or territorial law for all of his employees to be engaged in work at the site of the project under this Contract. In case of any such work sublet, the Contractor shall require the subcontractor similarly to provide Worker's Compensation Insurance for all of the latter's employees to be engaged in such work unless such employees are covered by the protection afforded by the Contractor's Worker's Compensation Insurance. In case any class of employees engaged in hazardous work on the project under this Contract is not protected under the Worker's Compensation Statute, the Contractor shall provide and shall cause each subcontractor to provide adequate employer's liability insurance for the protection of such of his employees as are not otherwise protected.

The Contractor and/or subcontractor shall file a copy of their Certificate of Compensation Insurance with the CITY and no work shall begin until such certificate is filed with the CITY. In the event of cancellation, the insurance company shall give the CITY ten (10) days written notice.

ARTICLE 6.11 SUBCONTRACTING: Attention is directed to the provisions in Section 1-6.2, "Subcontractor Listing", of the Standard Specifications and these Special Provisions.

In accordance with the requirements of Sections 4100 to 4133 inclusive of the Public Contract Code, each bidder shall list in his Proposal the name and business address of each subcontractor to whom the bidder proposes to subcontract all or a portion of work and shall list each subcontractor licensed by the State of California proposed by the bidder to specially fabricate and

install all or a portion of the work. Said list shall include a description of the portion of the work which will be done by each subcontractor.

A sheet for listing the subcontractors as required is included in the proposal. The successful responsible bidder shall submit a letter to the CITY requesting approval of all subcontractors. Included in the letter shall be a list of the names and addresses of each Contractor, items to be subcontracted by item number, brief description of the item, and contract bid value. If only a portion of the item is to be subcontracted, that portion and dollar value of work, based on contract item bid value, shall be indicated.

No subcontractor shall be permitted to perform any work under the contract without having first been approved, in writing, by the CITY.

ARTICLE 6.12 TRESPASS: The Contractor shall be responsible for all damage or injury which may be caused on any property by trespass of the Contractor's employees in the course of their employment whether the said trespass was committed with or without the consent or knowledge of the Contractor.

ARTICLE 6.13 SAFETY, SANITARY AND MEDICAL REQUIREMENTS: The Contractor, his employees, his subcontractors and their employees shall promptly and fully carry out the existing safety, sanitary and medical requirements as may from time to time be prescribed by the Industrial Safety Commission and by County or State Health Departments to the end that proper work shall be done and the safety and health of the employees and of the community may be conserved and safeguarded. In case any such regulations and orders are not observed by the Contractor, they may be enforced by the Engineer at the Contractor's expense.

ARTICLE 6.14 WATER AND POWER: Unless otherwise provided in the Special Provisions, the Contractor shall provide, at his own expense, all necessary water and power required for his operations under the contract.

ARTICLE 6.15 PROTECTION OF UNDERGROUND FACILITIES: Attention is directed to the possible existence of underground facilities not known to the CITY or in a location different from that which is indicated on the plans or in these Special Provisions. The Contractor shall take steps to ascertain the exact location of all underground facilities prior to doing work that may damage such facilities or interfere with their service. If the Contractor discovers underground facilities not indicated on the Plans or in these Special Provisions, he shall immediately give the Engineer written notification of the existence of such facilities. Such facilities shall be protected from damage as directed by the Engineer and the Contractor will be paid for such work as extra work as provided in Section 7-4 "Payment for Extra Work" of the Standard Specifications.

ARTICLE 6.16 AIR POLLUTION CONTROL: Section 3-12.2, "Air Pollution Control", of the Standard Specifications is supplemented by the following:

The Contractor shall comply with all air pollution control rules, regulations, ordinances and statutes which apply to any work performed pursuant to the contract including any air pollution

control rules, regulations, ordinances and statutes specified in Section 11017 of the Government Code.

In the absence of any applicable air pollution control rules, regulations, ordinances or statutes governing solvents, all solvents, including but not limited to the solvent portions of paints, thinners, curing compounds, and liquid asphalt used on the project shall comply with the applicable material requirements of the County Air Pollution Control District. All containers of paint, thinner, curing compound or liquid asphalt shall be labeled to indicate that the contents fully comply with said requirements.

Full compensation for conforming to the requirements in this article shall be considered as included in the price bid for the various contract items of work involved and no additional compensation will be allowed therefor.

ARTICLE 6.17 PROJECT APPEARANCE: The Contractor shall maintain a neat appearance to the work. In any area visible to the public, the following shall apply:

When practicable, broken concrete and debris developed shall be disposed of concurrently with its removal. If stockpiling is necessary the material shall be removed or disposed of on the next working day, except that stockpiles shall not be left in the public right of way on weekends or holidays.

Full compensation for conforming to the requirements in this article shall be considered as included in the prices bid for the various contract items of work involved and no additional compensation will be allowed therefor.

ARTICLE 6.18 FAIR EMPLOYMENT PRACTICE COMMISSION CERTIFICATION: The Contractor's attention is directed to the requirements in Section 12990 of the Government Code for nondiscrimination and compliance employment programs.

ARTICLE 6.19 SOUND CONTROL REQUIREMENTS: The Contractor shall comply with all local sound control and noise level rules, regulations and ordinances which apply to any work performed pursuant to the Contract.

Each internal combustion engine used for any purpose on the job or related to the job shall be equipped with a muffler of a type recommended by the manufacturer. No internal combustion engine shall be operated on the project without said muffler.

The noise level from the Contractor's operations between the hours of 7:30 a.m. and 4:00 p.m. shall not exceed 86 DBA at a distance of 50 feet. This requirement in no way relieves the Contractor from responsibility for complying with local ordinances regulating noise level.

Said noise level requirement shall apply to all equipment on the job or related to the job including, but not limited to, trucks, transit mixers or transient equipment that may or may not be

owned by the Contractor. The use of loud sound signals shall be avoided in favor of light warnings except those required by safety laws for the protection of personnel.

Full compensation for conforming to the requirements in this article shall be considered as included in the prices bid for the various contract items of work involved and no additional compensation will be allowed therefor.

ARTICLE 6.20 LEGAL RELATIONS AND RESPONSIBILITY: The Contractor's attention is directed to the provisions of Section 5, "Legal Relations and Responsibilities", of the Standard Specifications and these Special Provisions for the requirements and conditions which he must observe in the execution of the work.

SECTION 7. PROSECUTION AND PROGRESS

ARTICLE 7.01 PROSECUTION AND PROGRESS: The Contractor's attention is directed to Section 6, "Prosecution and Progress of the Work", of the Standard Specifications.

ARTICLE 7.02 TIME LIMIT: The work specified herein and shown on the Plans and Specifications shall be completed within **Sixty (60) working days** from the start date specified in the Notice to Proceed. Attention is directed to Section 3-13 and 6-9 of the Standard Specifications for Public Works Construction (The "Greenbook"), "Completion, Acceptance, and Warranty"; and "Liquidated Damages". The CITY shall withhold liquidated damages before the accrual date if the anticipated liquidated damages may exceed the value of the remaining work.

If the total amount of working days have expired and the work is not complete, liquidated damages are **three thousand dollars (\$3,000.00)** per calendar day.

SECTION 8. PAYMENTS

Within fifteen (15) workdays after the date of acceptance of the work the Engineer will cause to be filed on behalf of the CITY in the Office of the County Recorder a Notice of Completion of the work herein agreed to be done by the Contractor.

Upon expiration of thirty-five (35) days after the filing of such Notice of Completion of the work, the CITY will pay to the Contractor the amount remaining after deduction from the amount of value stated in the above-mentioned estimate all prior payments to the contract and all amounts to be kept and retained under the provisions of the Contract.

If the Contractor disagrees with the Engineer's final estimate and within said period of thirty-five (35) days files a written statement of his claims, the Engineer will issue as a semi-final estimate the proposed estimate submitted to the Contractor and the CITY will within thirty (30) days pay the sum found due thereon after deducting from the amount of value stated in the first mentioned estimate all prior payments to the Contractor and all amounts to be kept and retained under the provisions of the contract. The Engineer will then consider and investigate the Contractor's claim and will make such revision in the said estimate as he may find to be due and will then

certify in writing to the City Clerk the whole amount and value of the work done by the Contractor under and according to the terms of the contract. The CITY will pay the amount so found due after deducting all previous payments, amounts to be retained under the contract, and amounts which may be retained in accordance with the applicable specifications.

ARTICLE 8.01 PARTIAL PAYMENTS: At the request of the Contractor, partial payments will be made on a monthly basis. The Progress Pay requests shall be submitted on or before the 20th day of each month. The estimate may include only work completed up to and including this date.

Progress pay requests showing work not accomplished by the 20th day of the month shall be rejected.

ARTICLE 8.02 PAY RETENTION: From each progress estimate **five percent (5%)** will be deducted and retained in accordance with Section 7-3.2 of the Standard Specifications.

ARTICLE 8.03 FINAL ESTIMATE AND PAYMENT: Whenever in the opinion of the Engineer the Contractor shall have completely performed the contract on his part the Contractor shall submit to the Engineer a written statement to the final quantities of contract items for inclusion in the final estimate.

All prior estimates upon which partial payments have been made shall be subject to correction in the final estimate. The final estimate and payments made thereunder shall be final and conclusive upon the Contractor.

ARTICLE 8.04 TAXES: No mention shall be made of sales tax or use tax, as all bid prices submitted shall be considered as including such tax.

SECTION 9. WORK SCHEDULES

ARTICLE 9.01 WORK SCHEDULE: Before the commencement of work, the Contractor shall submit a work schedule prepared using the latest version of Microsoft Project or approved equal to the Engineer for approval. The work schedule shall be submitted at least five (5) days prior to commencement of work or at the Pre-Construction Meeting, and shall be kept current through the progress of the work. The work shall be performed in order of their priorities and as directed by the Engineer.

The Contractor shall schedule his work so that all excavated locations shall be poured concrete no later than Friday. The Contractor shall not excavate any location that he is not sure that he is able to pour on Friday. No excavated location is allowed over weekends and / or holidays. The Contractor shall pay the sum of one hundred dollars (**\$100.00**) per each calendar day for each excavation left open and not poured concrete over the weekend starting on Saturday or over a holiday for the sidewalk portion of the work.

Full compensation for conforming to the requirements in this article shall be considered as included in the prices bid for the various contract items of work involved and no additional compensation will be allowed therefor.

SECTION 10. CITY REQUIREMENTS

ARTICLE 10.01 FAIR EMPLOYMENT PRACTICES: In connection with the performance of work under this Contract, the Contractor agrees as follows:

1. The Contractor will not willfully discriminate against any employee or applicant for employment because of race, sex, color, religion, age, handicap status, or national origin. The Contractor will take affirmative action to ensure that the applicants are employed, and that employees are treated during employment, without regard to their race, sex, color, religion, age, handicap status, or national origin. Such action shall include, but not be limited to, the following: employment upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by awarding authority setting forth the provisions of this fair Employment Practices section.
2. The Contractor will send to each labor union or representative of workers with which he has collective bargaining agreement or other contract or understanding, a notice advising the said labor union workers' representative of the Contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applications for employment.
3. The Contractor will permit access to his records of employment, employment advertisements, application forms, and other pertinent data and records the Fair Employment Practices Commission, the CITY or any other appropriate agency designated by the CITY for the purposes of investigation to ascertain compliance with the Fair Employment Practices section of this Contract.
4. The finding of willful violation of the Fair Employment practices section of this Contract or of the Fair Employment Practices Act shall be regarded by the CITY as a basis for determining the Contractor to be not a "responsible bidder" as to future contracts for which such Contractor may submit bids.

The CITY shall deem a finding of willful violation of the Fair Employment Practices Act to have occurred upon receipt of written notice from the Fair Employment Practices Commission that it has investigated and determined that the Contractor has violated the Fair Employment Practices Act and has issued an order under Government Code Section 12970 or obtained an injunction under the Government Code Section 12973.

Upon receipt of such written notice from the Fair Employment Practices Commission, the CITY shall notify the Contractor that unless he demonstrates to the satisfaction of the awarding authority within a stated period that the violation has been corrected, his prequalification rating will be revoked at the expiration of such period.

5. The Contractor agrees, that should the CITY determine that the Contractor has not complied with the Fair Employment Practices section of this Contract, then pursuant to Labor Code Section 1735 and 1755, the Contractor shall, as a penalty to the Agency, forfeit for each calendar day, or portions thereof, for each person who was denied employment as a result of such non-compliance, the penalties provided in the Labor Code for violation of prevailing wage rates. Such monies may be recovered from the Contractor. The Agency may deduct any such damages from any monies due to the Contractor from the Contract.
6.
 - a. Nothing contained in this Fair Employment Practices section shall be construed in any manner or fashion so as to prevent the CITY from pursuing any other remedies that may be available by law.
 - b. Nothing contained in this Fair Employment Practices section shall be construed in any manner or fashion so as to require or permit the hiring of an employee not permitted by the National Labor Relations Act.
7. Prior to award of the Contract, the Contractor shall certify to the awarding authority that he has or will meet the following standards for affirmative compliance which shall be evaluated in each case by the CITY.
 - a. The Contractor shall provide evidence, as required by the CITY, that he has notified all supervisors, foremen and other personnel officers in writing of the content of the anti-discrimination clause and their responsibilities under it.
 - b. The Contractor shall provide evidence, as required by the CITY, that he has notified all sources of employee referrals (including unions, employment agencies, advertisements, Department of Employment) of the content of the anti-discrimination clause.
 - c. Personally, or through his representatives, the Contractor shall, through negotiations with the unions with whom he has agreements, attempt to develop an agreement which will:
 - (1) Spell out responsibilities for non-discrimination in hiring, referral, upgrading and training.
 - (2) Otherwise implement an affirmative anti-discrimination program in terms of the union's specific areas of skill and geography, to the end that qualified minority workers will be available and given an equal opportunity for employment.

- d. The Contractor shall notify the CITY of opposition to the anti-discrimination clause by individuals, firms or organizations during the period of its prequalification.
8. The Contractor will include the provisions of the foregoing paragraphs 1 through 7 in every first tier subcontract, so that such provisions will be binding upon each such subcontractor.
9. The Contractor, in executing the proposal, thereby certifies that he has or will meet the standards for affirmative compliance with the Fair Employment Practices requirements contained herein.
10. The Contractor shall comply with the procedures and conditions set forth in Section XII of the City of La Habra Affirmative Action Plan as adopted by Resolution 2404 of the City of La Habra January 21, 1975, a portion of which reads as follows:

“It shall be the policy of the City of La Habra to require all contractors and vendors doing business with the CITY in an amount in excess of \$50,000.00 and/or 200 employees to certify their compliance with Title VII of the civil Rights Act and the Equal Employment Opportunity Act of 1972. Said certification shall be stipulated by the CITY to safeguard against discrimination by contractors or vendors on the basis of race, color, creed, sex, age, or nationality concerning the practices of recruitment, promotion, demotion, transfer, layoff, or termination. A violation of this non-discrimination certification will be considered a material provision violation and shall be grounds for termination or suspension, in whole or in part, of the contract by the CITY”.

SECTION 11. CONSTRUCTION DETAILS

ARTICLE 11.01 GENERAL:

Subdivision 11.01.1 Description of Work: The general items of work to be performed hereunder shall be in various locations throughout the CITY, comprises the furnishing of all materials, equipment, tools, labor and incidentals and shall consist of but not be limited to **Mobilization; Storm Water Best Management Practices; Traffic Control; Construction Survey, Staking and Monument Perpetuation; Excavation and Disposal; Cold Mill; AC Pavement; Crushed Miscellaneous Base; 2' Wide Longitudinal Gutter; Rolled Curb and Gutter; PCC Pavement; Trench Drain; Parkway Drain; Speed Humps; Local Depression; Detectable Warning Truncated Domes; Adjust Utility Pull Boxes, Water Valves and Manholes to Grade; Striping and Pavement Markers; Signage and Posts; Wheel Stops;** and all incidental work so indicated on the plans, specifications and tables, and required for the proposed improvements.

Subdivision 11.01.2 Order of Work: Order of work shall conform to the provisions of Section 6-1, “Construction Schedule and Commencement of the Work,” of the Standard Specifications for Public Works Construction (The “Greenbook”) and these Special Provisions.

The Contractor shall determine the sequence of work necessary to diligently pursue completion of the work, in accordance with the Special Provisions. Work shall be phased and constructed so that at the end of each work day, excavated trenches will be covered flush to grade by steel plates or pavement, opened to traffic, and parking restored. **For cold milling, the Contractor shall mill only the quantity of street that the Contractor can base pave the same working day.** Open trenches adjacent to sidewalks shall be covered and protected for pedestrian traffic (such as water meters and fire hydrants). No open excavation will be allowed over weekends.

1. Ordering of all materials requiring long lead-time. The Contractor shall order all long lead-time supplies, materials and equipment within three (3) working days after the award of contract by the CITY.
2. Distribution of written notification to each resident affected by the construction.
3. Develop and set up traffic control measures.
4. Install initial project storm water pollution prevention plan and BMPs.
5. Complete all required excavation.
6. Complete all concrete improvements.
7. Complete all backfill, compaction, AC cap and pavement restoration.
8. Complete all street improvements.
9. Adjust surface utilities and manholes to grade.
10. Complete signing, striping, pavement markings and pavement markers.

Subdivision 11.01.3 Public Convenience and Access: The Contractor shall conduct his operations so as to cause minimum obstruction and inconvenience to the public.

At least five (5) days prior to commencing work, the Contractor shall submit to the City Engineer his construction schedule for approval in accordance with Section 9. This schedule shall allow businesses and residents on the affected streets to park within a reasonable distance from their business or home. The Contractor shall distribute to each resident or business affected by the construction a written notice at least forty-eight (48) hours prior to commencing construction. The notice shall include the date and working hours of construction. It shall be the Contractor's responsibility to complete the notification letter with the proper dates at the time of notification. If the Contractor fails to meet the schedule indicated in the Notice, the Contractor shall reschedule his work and re-notify the residents.

Continuous emergency and local traffic access shall be maintained in the area of work and vehicular access to individual driveways shall be provided and maintained except for short durations of not more than two hours and with prior notice to the adjacent residents involved. No overnight closure of driveways will be allowed except while construction is in progress and concrete is curing. The Contractor shall provide alternate ramps for access while concrete is curing, where feasible.

Should the Contractor appear to be neglectful or negligent in furnishing warning and protective measures, the Engineer may direct the Contractor's attention to the existence of such hazards. The Contractor shall provide all necessary warning and protective measures immediately, at his

expense. Whether the Engineer points out the inadequacy of warning and protective measures or not, such action, or lack of action, on the part of the Engineer shall not relieve the Contractor from the responsibility for public safety or abrogate his obligation to furnish and pay for safety measures and devices. If attention is directed to the existence of a hazard, and the Contractor fails to provide an appropriate remedy, any expense incurred by the CITY for furnishing or maintaining safety measures and devices may be deducted from the pay estimates and the total contract price for the work.

The Contractor shall maintain access for residents at all times during the construction and at the end of each work day as specified above. The travel lanes shall be graded smooth and shall be maintained in a smooth condition throughout the period of construction including weekends, and at times as directed by the Engineer.

The Contractor shall be responsible for maintaining location of, and access to, all utilities and underground facilities during construction operations, including but not limited to valves and monitoring wells.

Subdivision 11.01.4 Public Notice: The Contractor shall notify businesses and residents affected by the construction in writing not less than forty-eight (48) hours in advance of commencement of demolition, construction, or storage of materials in the street. The notice shall include but not be limited to:

1. Time and Date of Commencement.
2. Working Hours of Construction.
3. Date of Completion.
4. Name & Telephone Number of Person to be Contacted, at any hour, in the event of a condition requiring immediate correction.

A copy of the letter shall be submitted to the City Engineer for approval prior to distribution.

The Contractor shall also notify La Habra Police Department, Los Angeles County Fire Department, Trash Hauler, Post Office, Ambulance Service and La Habra City School District about the construction. It shall be the Contractor's responsibility to complete the notification letter, with the proper dates, at the time of notification. If the Contractor fails to meet the schedule indicated in the Notice, the Contractor shall reschedule his work and re-notify all those listed above.

Subdivision 11.01.5 Hours of Work: All work shall be performed between 7:30 A.M. and 4:00 P.M., Mondays through Fridays except holidays. No work shall be performed outside normal working hours without advanced authorization from the Engineer. If work is adjacent to a school or on a major arterial, working hours will be restricted to 9:00 A.M. and 3:00 P.M., Mondays through Fridays except holidays. For any inspection outside of regular working hours, the Contractor shall pay all costs for the inspector's time. Request for overtime inspection shall be made in writing to the Engineer.

Full compensation for conforming to the requirements in this article shall be considered as included in the prices bid for the various contract items of work involved and no additional compensation will be allowed therefor.

ARTICLE 11.02 FURNISH AND APPLY WATER: Should the Contractor require water for construction operations, such as for compaction and dust control, he may use water from any fire hydrant adjacent to the job site upon application of a “No Fee” permit from the CITY, Engineering Department. The Contractor shall apply water for dust control as necessary and as directed by the Engineer.

Prior to using water, the Contractor shall install a water meter, a valve and an approved back-flow prevention device on the fire hydrant at his expense. The Contractor shall notify Los Angeles County Fire Department and the Public Works Department twenty-four (24) hours in advance, stating the location of the hydrant and the hours when it will be used. The Contractor shall operate the fire hydrant with a hydrant wrench only. Should damage occur to the hydrant, the Contractor shall make repairs at his expense and/or further use of CITY Water may be prohibited. The meter will be used for monitoring water use only. The Contractor will not be charged for water used on the project.

Full compensation for conforming to the requirements in this article shall be considered as included in the prices bid for the various contract items of work involved and no additional compensation will be allowed therefor.

ARTICLE 11.03 DUST CONTROL: The Contractor shall at all times, including weekends, at his expense, control dust on the project. Should the Contractor fail to maintain adequate dust control, the CITY will maintain the site, and an amount equal to twice the actual cost shall be assessed to the Contractor.

Full compensation for conforming to the requirements in this article shall be considered as included in the prices bid for the various contract items of work involved and no additional compensation will be allowed therefor.

ARTICLE 11.04 EXCESS EXCAVATED MATERIAL: Excess excavated material shall be removed from the site and disposed of by the Contractor at his own expense. Excavated material including pavement, base, rock and subgrade soils, shall be removed from the job site at the end of the workday. Failure to do so will result in the CITY removing material at the Contractor's expense. Cost shall be calculated at actual cost for labor and equipment plus administrative charges.

Full compensation for conforming to the requirements in this article shall be considered as included in the prices bid for the various contract items of work involved and no additional compensation will be allowed therefor.

ARTICLE 11.05 STORAGE OF MATERIALS: The Contractor shall at all times carefully and properly protect all materials of every description both before and after being used in the work

and provide any enclosing or special protection from the weather as deemed necessary by the Engineer.

Full compensation for conforming to the requirements in this article shall be considered as included in the prices bid for the various contract items of work involved and no additional compensation will be allowed therefor.

ARTICLE 11.06 SOLID WASTE COLLECTION: If collection of solid waste shall occur during street construction, the Contractor shall assist the solid waste collection contractor in accessing containers for his collection of solid waste.

Full compensation for conforming to the requirements in this article shall be considered as included in the prices bid for the various contract items of work involved and no additional compensation will be allowed therefor.

ARTICLE 11.07 APPURTENANT WORK: All items in the proposal form are considered as complete in place including all incidental and appurtenant work and materials necessary for the satisfactory completion of the same.

Full compensation for conforming to the requirements in this article shall be considered as included in the prices bid for the various contract items of work involved and no additional compensation will be allowed therefor.

ARTICLE 11.08 STORAGE YARD: The Contractor shall at his expense provide a storage yard for his equipment, tools, and materials to be stored. Location of storage yard shall be approved by the Engineer. CITY streets are not to be used as a storage area/yard.

Full compensation for conforming to the requirements in this article shall be considered as included in the prices bid for the various contract items of work involved and no additional compensation will be allowed therefor.

ARTICLE 11.09 PUBLIC UTILITIES: It is the Contractor's responsibility to notify Underground Service Alert (USA) to locate facilities prior to beginning the work. In addition, the Contractor shall locate service laterals that may be affected by the work and take measures to protect all utilities and service laterals in the streets and parkways.

The Contractor shall determine for himself the exact location of all public and private utilities, facilities or substructures, which are not shown on the plans. In the event any utility, facility or substructure is disturbed or damaged, whether in its original or relocated position, the Contractor shall immediately cause repairs to be made to the satisfaction of the owner at no cost to the CITY.

The Contractor shall notify the utility companies at least forty-eight (48) hours prior to construction.

AT&T	YVETTE GAROFANO	(714) 618-9146
CALIFORNIA DOMESTIC WATER COMPANY	CHE VENEGAS	(562) 947-3811
CHEVRON USA	DAVE ZERLER	(310) 669-4014
CITY OF LA HABRA PARKS DEPT	DAVID VILLALBA	(562) 383-4170
CITY OF LA HABRA SEWER AND WATER DEPT	BRIAN JONES	(562) 383-4170
COMCAST CABLE COMPANY		(800) 501-5738
CRIMSON PIPELINE	APRIL HARVEY	(562) 285-4195
CR&R (WASTE HAULER)		(714) 372-8209
FRONTIER COMMUNICATIONS	ARIEL FATALA	(714) 375-6717
KINDER MORGAN	DON QUINN	(714) 560-4400
LA HABRA HEIGHTS WATER COMPANY		(562) 697-6769
METROPOLITAN WATER DISTRICT	MATT PARRY	(714) 577-5084
MOBIL OIL	RUTH CRONIN-FRUITT	(310) 212-1761
ORANGE COUNTY SANITATION DISTRICT	DANIEL LEE	(714) 593-7176
PLAINS ALL AMERICAN PIPELINE	JOE MATTEO	(562) 728-2368
SO CAL EDISON	JIMMY PARKIN	(714) 578-3434
SO CAL GAS	GABRIEL DAVALOS	(213) 231-7688
	CLARINDA	
SHELL PIPE COMPANY	MALDONADO	(310) 816-2063
SPECTRUM	DOMINIC HERNANDEZ	(714) 287-9385
SUBURBAN WATER SYSTEMS	TOM MEDINA	(562) 755-5015
TORRANCE LOGISTICS COMPANY	TERI A. SHINDE	(310) 212-1794
UNOCAL	ARNA ADAMS	(213) 864-5663
WESCON C/O VINTAGE		
PRODUCTION	EMILIO RODRIGUEZ	(562) 665-9255
UNDERGROUND SERVICE ALERT		(800) 422-4133

Full compensation for conforming to the requirements in this article shall be considered as included in the prices bid for the various contract items of work involved and no additional compensation will be allowed therefor.

ARTICLE 11.10 RESTORATION OF IMPROVEMENTS: The Contractor shall restore the construction site per the Greenbook (SSPWC) Section 7-9. All damage done to existing facilities and improvements by the Contractor shall be repaired by him to the satisfaction of the Engineer. All paint marks shall be removed at the end of the project by using an approved blasting method.

Lawn areas disturbed by the construction area shall be graded smooth and level with the adjacent lawn. All dirt clumps greater than one inch in size shall be crumbled or removed and all stone or rock shall be removed. The disturbed area shall be replaced with sod of a variety similar to the adjacent lawn. Shrubs destroyed or removed shall be replaced in kind to the satisfaction of the adjacent property owner. Paved areas shall be restored in kind to the satisfaction of the adjacent

property owner. All fences disturbed, damaged or removed shall be restored to the satisfaction of the Engineer. In areas of close quarters the Contractor shall excavate by hand. Facilities damaged by using power tools shall be replaced to the satisfaction of the adjacent property owner. Cement concrete sidewalks removed or damaged shall be saw-cut and removed to the nearest score mark and replaced in accordance with CITY Standard Detail R-14. Any other improvements disturbed shall be restored to its original conditions and to the satisfaction of the adjacent property owner. Sprinklers and irrigation lines disturbed by the construction operations shall be restored to their original condition or better to the satisfaction of the adjacent property owner and/or Engineer.

Full compensation for conforming to the requirements in this article shall be considered as included in the prices bid for the various contract items of work involved and no additional compensation will be allowed therefor.

ARTICLE 11.11 WASTE MANAGEMENT: The Contractor shall comply with the requirements of AB939 and City of La Habra Construction and Demolition Ordinance, and submit a Waste Management Plan for the approval of the Engineer.

Full compensation for conforming to the requirements in this article shall be considered as included in the prices bid for the various contract items of work involved and no additional compensation will be allowed therefor.

ARTICLE 11.12 BID SCHEDULE: The quantities and sizes of materials shown in the bid schedule are for bid purposes only. The actual quantities used for construction and payment purposes shall be measured and determined by the CITY.

ARTICLE 11.13 EARTHWORK: Earthwork shall conform to the requirements of Section 300, "Earthwork" of the Standard Specifications and shall include all clearing and grubbing, demolition, saw-cut, excavation, grading, removal, disposal, backfilling or any other work necessary to prepare the sub-grade for construction of improvements.

Subdivision 11.13.1 Clearing and Grubbing: Clearing and grubbing shall conform to the applicable portions of Section 300, "Earthwork" of the Standard Specifications. All PCC and asphalt concrete to be removed shall be sawcut as needed to provide straight clean joints.

The tasks included as part of clearing and grubbing include the following:

1. Removal and restoration, replacement or relocation of fences, planters, foundations, walls, vegetation and irrigations systems not included as part of other bid items.
2. Protection of existing utilities, trees, fences, walls, signs and other facilities within the construction zone, except those directed to be removed or relocated.
3. Root pruning of tree roots and their disposal in areas where roots are causing lifting of existing concrete improvements.

Full compensation for conforming to the requirements in this article shall be considered as included in the prices bid for the various contract items of work involved and no additional compensation will be allowed therefor.

ARTICLE 11.14 TRENCHING: Trench excavation shall include, without classification, the removal of all materials of whatever nature encountered, including all asphalt or other obstructions of every nature that would interfere with the proper execution and completion of the work. The Contractor shall furnish, place and maintain all supports and shoring as set forth in the rules, orders and regulations of the Division of Industrial Safety of the State of California. The Contractor shall supply all pumping, ditching or other approved measure to effect the removal or exclusion of water, storm water and/or wastewater reaching the site of the work from any source so as to prevent damage to the work.

Full compensation for conforming to the requirements in this article, including but not limited to all saw cutting, trench excavation, moving and properly disposing of the excavated material, disposal fees, pumping, shoring, backfill, pipe zone material, backfill material, temporary AC pavement and related items shall be considered as included in the prices bid for the various contract items of work involved and no additional compensation will be allowed therefor.

ARTICLE 11.15 AC PAVEMENT, PCC CONCRETE AND SUBGRADE EXCAVATION AND DISPOSAL: The Contractor shall sawcut and remove existing pavement, base aggregate, and/or subbase soils as necessary to prepare for placement of various construction items, AC pavement, and PCC concrete work.

The Contractor shall place asphalt concrete pavement, base course, and wearing course as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer. All full depth joins shall be neatly saw-cut.

The Contractor shall compact the native soil and the CMB as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer.

Due to the low R value and high moisture content of subgrade soils present, construction equipment and traffic shall minimize travel on subgrade soils. The Contractor shall remove existing materials to grade with milling equipment of sufficient size to remove materials in one pass, excavator working from existing pavement surfaces, or a similar method.

Asphalt pavement material for base course paving, and the first lift of asphalt on top of the base course, shall be placed with a paving machine having tracks, or other equipment capable of placing asphalt concrete while minimizing loads on the subgrade soil or base course.

Construction equipment shall minimize repeated heavy traffic loadings, such as dump trucks, traveling repeatedly over the same pavement areas, so as to minimize the possibility of subgrade “pumping”. Subgrade and pavement failures caused by repeated heavy load traffic shall be repaired at the expense of the Contractor.

Construction work shall be performed and scheduled so as to avoid the necessity of trash trucks traveling on the AC pavement base course or subgrade soils. Construction equipment and vehicles shall only operate on pavement surfaces with at least one lift of AC pavement on top of the AC base course.

If areas of pumping or other unsuitable subgrade conditions are encountered, the Engineer may direct additional excavation of subgrade soils and placement of aggregate material or asphalt concrete to provide suitable paving conditions. Such additional excavation and placement of aggregate material or PCC or asphalt concrete shall be included in the contract price bid for various related bid items, and no additional compensation will be allowed.

The Contractor shall be responsible for the compaction of the subgrade, the CMB, and the AC pavement. This compaction operations shall be included in the contract price bid for various related bid items, and no additional compensation will be allowed.

Contractor is advised that pavement fabric and soil with high arsenic levels may be encountered. The Contractor shall be responsible for removal and disposal of pavement fabric and soil with high arsenic levels at no additional expense to the CITY.

Full compensation for conforming to the requirements in this article shall be considered as included in the prices bid for the various contract items of work involved and no additional compensation will be allowed therefor.

SECTION 12: BID ITEMS FOR PARK LA HABRA MOBILE HOMES PARK AND VIEW PARK MOBILE HOME ESTATES PARK STREET IMPROVEMENTS:

ARTICLE 12.01: MOBILIZATION: Mobilization shall include all labor, work, and materials necessary to mobilize and demobilize forces, equipment, and materials; obtain bonding, insurance, permits, licenses; and other work as necessary to prepare for the construction of the work. Compensation for Mobilization shall not exceed **Five Percent (5%)** of the total bid amount.

Prior to construction, the Contractor shall submit to the Engineer for approval, a construction phasing plan.

Full compensation for complying with the work contained in this article for **MOBILIZATION (BID ITEMS 1.01 AND 2.01)** shall be considered included in the contract bid price per Lump Sum (LS), and no additional compensation will be allowed therefor. One half of the bid amount shall be paid upon beginning work and completion of at least ten percent (10%) of the other bid items. One half shall be paid upon completion of the work, punch-list items, and complete cleanup and restoration of the project site.

ARTICLE 12.02: TRAFFIC CONTROL, SAFETY AND CLEANUP: The Contractor is directed to Subdivision 11.01.3 "Public Convenience and Access" and Subdivision 11.01.4 "Public Notice" as part of this article. The Contractor shall be responsible for adequate barricading of the

work area and controlling of traffic in the vicinity of the project as specified in Section 5-7 "Safety" in the Standard Specifications and these Special Provisions or as directed by the Engineer.

The Contractor's operations shall cause no unnecessary inconvenience. The access rights of the public shall be considered at all times. Unless otherwise authorized, traffic shall be permitted to pass through the Work, or an approved detour shall be provided.

Prior to construction, the Contractor shall submit to the Engineer for approval, a traffic control plan. The traffic control plan shall include, but not be limited to, location of all temporary signs, barriers, flashing arrow boards and proposed traffic flow diagrams. The information shall include the minimum requirements of the State of California Manual of Uniform Traffic Control Devices (MUTCD), latest edition. The Contractor shall submit "D" sheet Traffic Control Plans (TCP). The TCP shall be signed and stamped by either a Traffic Engineer (T.E.) or Professional Civil Engineer (P.E.), registered in the State of California and submitted by the Contractor to the CITY for approval.

The Contractor shall furnish at his expense and with no extra cost to the CITY such flagmen and guards as are necessary to give adequate warning to the public that roadway work is underway and of any dangerous conditions to be encountered. Flagmen shall perform their duties and be provided with equipment in accordance with current "Instructions to Flagmen" of the State of California, Division of Highways. The equipment shall be furnished, kept clean and in good repair by the Contractor at his own expense. The Contractor shall furnish, erect, maintain and regularly inspect barricades, lights, signs and other devices as are necessary to prevent accidents and avoid damage or injury to the public. These devices shall conform to the requirements set forth in the State of California Manual of Uniform Traffic Control Devices (MUTCD), latest edition.

All traffic control devices (delineators, signs, etc.) must be picked up at the end of the workday and stored off-site at an approved location. Traffic control devices may not be left overnight in the medians, at the curb, on sidewalks, etc. All graffiti on construction traffic control devices (delineators, signs, etc.) must be removed daily, or the signs be replaced.

Traffic control shall limit travel on only the specific work area for each day.

The roadway shall have at least one lane open in both directions at all times.

Parking shall be restricted only as needed for the specific work area for each day, and shall be reopened at the end of each work day. Parking restrictions may be from 7:30 AM to 4:00 PM on working days.

Through lanes and parking shall be restored by 4:00 PM each working day.

Trench plates shall be H20 load rated, skid resistant, and shall have traffic markings as needed to designate existing lane lines.

Closures and parking restrictions shall only be made for the amount of time necessary to complete construction activities. Areas that do not have active construction work shall be secured and reopened as directed by the Engineer. Extents of closures and parking restrictions shall be limited to areas as necessary for immediate construction activities. Contractor shall install temporary “No Parking” and “Tow Away” signs.

When necessary to provide vehicular or pedestrian crossings over the fresh pavement, the Engineer shall direct the Contractor to spread sufficient sand or rock dust on the affected area to eliminate tracking or damage to the slurry. Sand or rock dust used for this purpose shall be at the Contractor’s expense.

Safe and adequate pedestrian and vehicular access shall be provided and maintained to: fire hydrants; commercial and industrial establishments; churches, schools, and parking lots; service stations and motels; hospitals; police and fire stations; and establishments of similar nature. Access to these facilities shall be continuous and unobstructed unless otherwise approved by the Engineer.

Safe and adequate pedestrian zones and public transportation stops, as well as pedestrian crossings of the Work at intervals not exceeding 300 feet in each direction, shall be maintained unless otherwise approved by the Engineer.

Vehicular access to residential driveways shall be maintained to the property line except when necessary construction precludes such access for reasonable periods of time. If backfill has been completed to the extent that safe access may be provided, and the street is opened to local traffic, the Contractor shall immediately clear the street and driveways and provide and maintain access.

The Contractor shall provide temporary AC ramps where there are differences at removals and/or cold mills. Ramps shall be provided in advance of opening the lane to vehicular travel.

Grading operations, roadway excavation and fill construction shall be conducted by the Contractor in a manner to provide a reasonably satisfactory surface for traffic. When rough grading is completed, the roadbed surface shall be brought to a smooth, even condition satisfactory for traffic.

Unless otherwise authorized, work shall be performed in only one-half the roadway at one time. One half shall be kept open and unobstructed until the opposite side is ready for use. If one-half a street only is being improved, the other half shall be conditioned and maintained as a detour.

The Contractor shall cooperate with the various parties involved in the delivery of mail and the collection and removal of trash and garbage to maintain existing schedules for these services.

Full compensation for conforming to the requirements in this article TRAFFIC CONTROL, SAFETY AND CLEANUP (BID ITEMS 1.02 AND 2.02) shall be considered as included in the contract bid price per Lump Sum (LS), and shall include all labor, tools, materials and

appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

ARTICLE 12.03: CONSTRUCTION SURVEY, STAKING AND MONUMENT PERPETUATION: The Contractor shall provide all labor, tools, work, materials and appurtenances necessary to survey the work to conform to plan lines and limits, provide grades for drainage, establish pavement grades, match to existing conditions, and otherwise lay out the work as necessary for construction. The Contractor shall review and set all reference points, grades and elevations to the satisfaction of the Engineer prior to construction operations.

Pavement grades shall be provided as necessary for PCC construction, and to prepare the street for asphalt pavement operations. Grades shall provide for adequate drainage, match to existing slopes, gutters and other improvements, and provide a smooth profile. Nominal pavement grades shall be 2% from the pavement centerline to edge of gutter. In locations where gutter elevations differ on each side of the street, the slope shall be adjusted to provide adequate drainage.

Prior to the start of construction, the Contractor's licensed Land Surveyor or registered Civil Engineer licensed to practice land surveying in the State of California shall, in conformance with California State Law AB 1414, locate all monuments (whether or not of record), bench marks, and centerline ties within the construction zone, i.e., within one hundred feet of the construction activity. Additional ties to monuments shall be set when ties are missing (min. 4 ties per monument.) The Contractor's surveyor or qualified Civil Engineer shall prepare and submit for review to the Engineer separate tie sheets and Corner Record sheets (monuments not of record shall have only tie sheets prepared). Tie sheets and Corner Records shall conform to the County Standards and the County Engineers' Association of California's "Guide to the Preparation of Records of Survey and Corner Records" document as provided by the County of Orange Land Surveyor's Office. Upon review by the Engineer, the Land Surveyor shall file the Corner Records with the County of Orange Land Surveyor's Office as required by law, and file Certified Corner Records with the City Engineer.

After construction and prior to final acceptance by the CITY of the construction project, the Contractor's land surveyor or qualified Civil Engineer shall re-survey all field monuments and centerline ties within the construction zone, prepare tie sheets and Corner Record sheets as indicated above, and file them with the City Engineer for review. After review by the City Engineer, the land surveyor shall file the Corner Records with the County of Orange Land Surveyor's Office as required by law, and file certified copies of the Corner Records with the City Engineer.

All survey monuments removed or altered as a result of construction shall be reset, Corner Records filed with the County of Orange Land Surveyor's Office, and approved final Corner Records filed with the City Engineer. Centerline ties removed as a result of construction shall be reset and tie sheets filed with the City Engineer. The Contractor shall not disturb any monuments, stakes or sign posts found on the line of the improvement until authorized by the Engineer. The Contractor shall bear the expense of resetting any monument, stakes or sign posts which may be disturbed without authorization from the Engineer. The Contractor is responsible to re-establish

any survey monument that is disturbed, including monuments at the property line with no extra cost to the CITY to the satisfaction of the City Engineer.

The land surveyor shall provide a letter of certification for all monuments having four or more existing ties which are within 0.02 feet plus or minus of the original CITY tie sheet records. When several monuments or ties appear on one tie sheet and one of the ties has changed, the land surveyor shall re-measure all of the ties and re-file a new tie sheet with the CITY as required herein.

County of Orange permanent and temporary bench marks within the construction zone shall be located by survey, and the Contractor's Land Surveyor shall send a written notification of impending construction to the County of Orange Land Surveyor's Office two weeks prior to construction.

Lines and grades for the construction shall be the responsibility of the Contractor, with the following provisions:

All work under this contract shall be built in accordance with the lines and grades shown on the plans. Field survey for establishing these, and for the control of construction, shall be the responsibility of the Contractor. All such survey work including construction staking shall be done under the supervision of a California Licensed Land Surveyor or authorized Civil Engineer. Staking shall be done on all items ordinarily requiring grade and alignment, at intervals normally accepted by the agencies and trade involved.

The Contractor shall provide a copy of the office calculations and grade sheets to the Engineer. The Contractor shall be responsible for any errors in the finished work, and shall notify the Engineer, in writing, within twenty-four (24) hours, of any discrepancies, or design errors during the construction staking.

Contractor shall provide construction surveying for relocation of any conflicting utilities and provide a reasonable time window of opportunity to the utility owners to relocate their facilities after the survey is provided by the Contractor.

Project retention will not be released until all records are recorded with the County of Orange Land Surveyor's Office.

Full compensation for conforming to the requirements in this article CONSTRUCTION SURVEY, STAKING AND MONUMENT PERPETUATION (BID ITEMS 1.03 AND 2.03) shall be considered as included in the contract bid price per Lump Sum (LS), and shall include, but not be limited to, construction staking, location and/or relocation of conflicting utilities, locating survey monuments, setting of survey monuments and center lines ties, preparing and filing centerline tie sheets and Corner Records, locating bench marks and notifying the County Surveyor's Office of same, professional office services and field calculation, and furnishing all labor, tools, materials, equipment and appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

ARTICLE 12.04: STORM WATER BEST MANAGEMENT PRACTICES (BMPs): The Contractor shall comply with Section 3-12 "Work Site Maintenance" of the Standard Specifications for Public Works Construction. The Contractor shall not permit polluted water to enter a catch basin or drainage channel. Water pollution control work shall consist of constructing those facilities which may be shown on the Plans, specified elsewhere in these Special Provisions, required by the Standard Specifications, required by National Pollutant Discharge Elimination System (NPDES No. CAS000002) California General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities Order No. 2009-0009-DWQ, or ordered by the Engineer. Said work is intended to provide prevention, control and abatement of water pollution to streams, waterways and other bodies of water.

In order to provide effective and continuous control of water pollution, it may be necessary for the Contractor to perform the contract work in small or multiple units on an out-of-phase schedule and with modified construction procedures. The Contractor shall provide temporary pollution control measures including, but not limited to, dikes, basins, ditches and the application of straw and seed which become necessary as a result of his operations. The Contractor shall coordinate water and pollution control work with all other work done on the contract.

Before starting any work on the project, the Contractor shall submit to the Engineer for acceptance a Water Pollution Control Program (WPCP) for effective control of water pollution. Such WPCP shall show the schedule for the erosion control work included in the contract and for all water pollution control measures which the Contractor proposes to take in connection with construction of the project to minimize the effect of his operations upon adjacent streams and other bodies of water. The Contractor shall not perform any clearing and grubbing, or earthwork on the project, other than that specifically authorized in writing by the Engineer, until such WPCP has been accepted. The Contractor shall revise and bring up to date said WPCP at any time the Engineer makes written request for such revision.

The Engineer will notify the Contractor of the acceptance or rejection of any submitted or revised WPCP in not more than ten (10) days.

The CITY shall not be liable to the Contractor for failure to accept all or any portion of an originally submitted or revised WPCP, nor for any delays to the work due to the Contractor's failure to submit an acceptable WPCP.

The Contractor may request the Engineer to waive the requirement for submission of a written WPCP for control of water pollution when the nature of the Contractor's operation is such that erosion is not likely to occur. Waiver of this requirement will not relieve the Contractor from responsibility for compliance with the other provisions of this section. Waiver of the requirement for a written WPCP for control of water pollution will not preclude submittal of a written WPCP at a later time if the Engineer deems it necessary because of the effect of the Contractor's operations.

Where erosion control damage will cause water pollution which is probably due to the nature of the material or the season of the year, the Contractor's operations shall be so scheduled that permanent erosion control features will be installed concurrently with or immediately following grading operations.

Compliance with the requirements of this article shall in no way relieve the Contractor from his responsibility to comply with the other provisions of the Contract, in particular, his responsibility for damage and for preservation of property.

The Contractor shall provide all water pollution control work in accordance with the contract, the accepted program, and ordered by the Engineer. All water pollution control work performed in accordance with the accepted WPCP which is not otherwise required under the contract and which is ordered by the Engineer will be paid for as follows:

- (1) Such water pollution control work which may be accomplished under the various contract items of work will be measured and paid for as provided for in these Special Provisions for the said items of work.
- (2) Such water pollution control work not covered by contract items will be paid for as extra work as provided for in Section 3-3 "Extra Work" of the Standard Specifications.

Except as otherwise provided in this Article 12.04, or in the Standard Specifications or elsewhere in these Special Provisions, full compensation for complying with the work contained in this article for STORM WATER BEST MANAGEMENT PRACTICES (BMPs) (BID ITEMS 1.04 AND 2.04) shall be considered included in the contract bid price per Lump Sum (LS), and no additional compensation will be allowed therefor.

ARTICLE 12.05: SAWCUT/COLD MILL EXISTING AC PAVEMENT 3" DEPTH: This bid item shall include all labor, tools, materials and appurtenances necessary to sawcut/cold mill existing AC pavement 3" depth as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer. Cold milling shall conform to Subsection 302-1 of the Standard Specifications and as indicated in these Special Provisions. **For cold milling, the Contractor shall mill only the quantity of street that the Contractor can base pave the same working day.**

Existing asphalt concrete shall be milled at the locations and to the dimensions shown on the plans and in accordance with these Special Provisions. The milling of asphalt concrete pavement shall be performed by cold milling. The cold milling machine shall have a cutter head at least 30 inches wide and shall be operated so as not to produce fumes or smoke. The depth, width and shape of the cut shall be as indicated on the typical cross sections or as directed by the Engineer. The final cut shall result in a uniform surface conforming to typical cross sections. The outside lines of the milled area shall be neat and uniform. The road surfacing to remain in place and other improvements in the public right-of-way or on private property shall not be damaged in any way. The Contractor shall use extreme caution when cold milling adjacent to the existing gutters, so as

not to cause chipping and breakage of the concrete. The Contractor shall be responsible for the replacement of any and all concrete improvements damaged during the milling process.

Construction equipment shall minimize repeated heavy traffic loadings, such as dump trucks, traveling repeatedly over the same pavement areas, so as to minimize the possibility of subgrade “pumping”. Subgrade and pavement failures caused by repeated heavy load traffic shall be repaired at the expense of the Contractor.

Construction work shall be performed and scheduled so as to avoid the necessity of trash trucks traveling on the AC pavement base course or subgrade soils. Construction equipment and vehicles shall only operate on pavement surfaces with at least one lift of AC pavement on top of the AC base course.

If areas of pumping or other unsuitable subgrade conditions are encountered, the Engineer may direct additional excavation of subgrade soils and placement of aggregate material or asphalt concrete to provide suitable paving conditions. Such additional excavation and placement of aggregate material or PCC or asphalt concrete shall be included in the contract price bid for various related bid items, and no additional compensation will be allowed.

The Contractor shall be responsible to locate and mark all facilities such as sewer manhole covers, telephone manhole covers, water valve covers, and catch basin covers, which, if struck, could damage the cold milling cutting drum and/or cutting teeth. The Contractor shall thoroughly inspect the work site in advance of the cold milling operation to minimize the risk of striking any unseen under surface object(s) and shall include in the price(s) bid for edge milling removal work an additional amount sufficient to cover the cost of damage related down time and the cost of repair of damage to said cold milling cutting drum and/or cutting teeth.

Care shall be exercised not to damage adjacent concrete gutters or curb. Gutters or curbs damaged shall be replaced at the Contractor’s expense.

The material milled from the roadway surface, including material deposited in existing gutters or on the adjacent traveled way, shall be immediately removed from the site of the work and disposed of outside the road right-of-way. The removal crew shall follow within fifty (50) feet of the miller unless otherwise directed by the Engineer.

Residue from grinding shall not be permitted to flow or travel into gutters, onto adjacent street surfaces or parkways. All residue shall be immediately and completely removed by sweeping and properly disposed of. No washing of residue into drainage structures will be allowed. Cold milled materials shall become the property of the Contractor.

Hand-operated cold plane equipment may be required in areas not accessible to self-propelled machinery.

Both the perpendicular and parallel temporary taper transition may be achieved by over milling outside of the specified full depth mill limits or by using a full depth mill inside the specified full

depth mill limits followed by a temporary asphalt concrete ramp. **The temporary asphalt concrete ramp must be removed prior to the actual asphalt concrete base course placement.** Adherence to all of the preceding temporary pavement surface maintenance requirements shall be absorbed into the unit costs for the various mills. Temporary ramping, where required by the Engineer for traffic control or other purposes, shall be considered included in this article and no additional compensation will be allowed.

In areas where new asphalt pavement will join existing asphalt pavement, the Contractor shall sawcut edges to ensure a clean joint to existing asphalt pavement and as shown on the plans.

Pay limits shall be to the top of subgrade as shown on the plans. Excess excavation will be at the cost of the Contractor, as well as the additional asphalt concrete material needed to replace the excess material excavated.

Milled asphalt concrete pavement will be measured by the square foot. The quantity to be paid for will be the actual area of surface milled irrespective of the number of passes required.

Contractor is advised that pavement fabric and soil with high arsenic levels may be encountered. The Contractor shall be responsible for removal and disposal of pavement fabric and soil with high arsenic levels at no additional expense to the CITY.

Full compensation for conforming to the requirements in this article SAWCUT/COLD MILL EXISTING AC PAVEMENT 3" DEPTH (BID ITEMS 1.05 AND 2.05) shall be considered as included in the contract bid price per Square Foot (SF), and shall include all labor, tools, materials and appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

ARTICLE 12.06: SAWCUT AND REMOVE 8" FULL DEPTH STRUCTURAL SECTION:
This bid item shall include all labor, tools, materials and appurtenances necessary to sawcut and remove full depth structural section to a depth of 8" below proposed surface as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer. **The Contractor shall remove only the quantity of street that the Contractor can base pave the same working day.**

Construction equipment shall minimize repeated heavy traffic loadings, such as dump trucks, traveling repeatedly over the same pavement areas, so as to minimize the possibility of subgrade "pumping". Subgrade and pavement failures caused by repeated heavy load traffic shall be repaired at the expense of the Contractor.

Construction work shall be performed and scheduled so as to avoid the necessity of trash trucks traveling on the AC pavement base course or subgrade soils. Construction equipment and vehicles shall only operate on pavement surfaces with at least one lift of AC pavement on top of the AC base course.

If areas of pumping or other unsuitable subgrade conditions are encountered, the Engineer may direct additional excavation of subgrade soils and placement of aggregate material or asphalt concrete to provide suitable paving conditions. Such additional excavation and placement of aggregate material or PCC or asphalt concrete shall be included in the contract price bid for various related bid items, and no additional compensation will be allowed.

Contractor is advised that pavement fabric and soil with high arsenic levels may be encountered. The Contractor shall be responsible for removal and disposal of pavement fabric and soil with high arsenic levels at no additional expense to the CITY.

Full compensation for conforming to the requirements in this article SAWCUT AND REMOVE 8" FULL DEPTH STRUCTURAL SECTION (BID ITEMS 1.06 AND 2.06) shall be considered as included in the contract bid price per Cubic Yard (CY), and shall include all labor, tools, materials and appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

ARTICLE 12.07: SAWCUT AND REMOVE 12" FULL DEPTH STRUCTURAL SECTION:
This bid item shall include all labor, tools, materials and appurtenances necessary to sawcut and remove full depth structural section to a depth of 12" below proposed surface as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer. **The Contractor shall remove only the quantity of street that the Contractor can base pave the same working day.**

Construction equipment shall minimize repeated heavy traffic loadings, such as dump trucks, traveling repeatedly over the same pavement areas, so as to minimize the possibility of subgrade "pumping". Subgrade and pavement failures caused by repeated heavy load traffic shall be repaired at the expense of the Contractor.

Construction work shall be performed and scheduled so as to avoid the necessity of trash trucks traveling on the AC pavement base course or subgrade soils. Construction equipment and vehicles shall only operate on pavement surfaces with at least one lift of AC pavement on top of the AC base course.

If areas of pumping or other unsuitable subgrade conditions are encountered, the Engineer may direct additional excavation of subgrade soils and placement of aggregate material or asphalt concrete to provide suitable paving conditions. Such additional excavation and placement of aggregate material or PCC or asphalt concrete shall be included in the contract price bid for various related bid items, and no additional compensation will be allowed.

Contractor is advised that pavement fabric and soil with high arsenic levels may be encountered. The Contractor shall be responsible for removal and disposal of pavement fabric and soil with high arsenic levels at no additional expense to the CITY.

Full compensation for conforming to the requirements in this article SAWCUT AND REMOVE 12" FULL DEPTH STRUCTURAL SECTION (BID ITEM 2.07) shall be considered as

included in the contract bid price per Cubic Yard (CY), and shall include all labor, tools, materials and appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

ARTICLE 12.08: SAWCUT AND REMOVE 14" FULL DEPTH STRUCTURAL SECTION:

This bid item shall include all labor, tools, materials and appurtenances necessary to sawcut and remove full depth structural section to a depth of 14" below proposed surface as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer. **The Contractor shall remove only the quantity of street that the Contractor can base pave the same working day.**

Construction equipment shall minimize repeated heavy traffic loadings, such as dump trucks, traveling repeatedly over the same pavement areas, so as to minimize the possibility of subgrade "pumping". Subgrade and pavement failures caused by repeated heavy load traffic shall be repaired at the expense of the Contractor.

Construction work shall be performed and scheduled so as to avoid the necessity of trash trucks traveling on the AC pavement base course or subgrade soils. Construction equipment and vehicles shall only operate on pavement surfaces with at least one lift of AC pavement on top of the AC base course.

If areas of pumping or other unsuitable subgrade conditions are encountered, the Engineer may direct additional excavation of subgrade soils and placement of aggregate material or asphalt concrete to provide suitable paving conditions. Such additional excavation and placement of aggregate material or PCC or asphalt concrete shall be included in the contract price bid for various related bid items, and no additional compensation will be allowed.

Contractor is advised that pavement fabric and soil with high arsenic levels may be encountered. The Contractor shall be responsible for removal and disposal of pavement fabric and soil with high arsenic levels at no additional expense to the CITY.

Full compensation for conforming to the requirements in this article SAWCUT AND REMOVE 14" FULL DEPTH STRUCTURAL SECTION (BID ITEMS 1.07 AND 2.08) shall be considered as included in the contract bid price per Cubic Yard (CY), and shall include all labor, tools, materials and appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

ARTICLE 12.09: FURNISH AND CONSTRUCT 2" AC (TYPE C2-PG 64-10): This bid item shall include all labor, tools, materials and appurtenances necessary to furnish and construct 2" AC Type C2-PG 64-10 per Section 203-1 and 203-6 as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer. All full depth joins shall be neatly sawcut or milled.

Work includes, but is not limited to, furnishing, spreading and compaction of asphalt concrete pavement surface course as shown on the project plans and typical sections. Asphalt Concrete

shall be in accordance with Section 203 “Bituminous Materials”, Section 302 “Roadway Surfacing” and Section 400 “Rock Products” of the Standard Specifications.

Where base material is exposed during removal of the existing AC pavement, the base material shall be compacted to not less than 95% relative compaction prior to placement of new asphalt concrete.

Prior to the placement of any asphalt concrete, a tack coat layer shall be uniformly applied upon the existing pavement. The tack coat shall be SS-1h type asphaltic emulsion conforming to Section 203.3 of the Greenbook.

The final lift of pavement shall be placed with conventional spreader equipment. However, the Contractor shall avoid unnecessary and repeated heavy traffic loadings on the same pavement areas.

Full compensation for conforming to the requirements in this article FURNISH AND CONSTRUCT 2” AC (TYPE C2-PG 64-10) (BID ITEMS 1.08 AND 2.09) shall be considered as included in the contract bid price per Ton (TON), and shall include all labor, tools, materials and appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

ARTICLE 12.10: FURNISH AND CONSTRUCT 12” AC (TYPE C2-PG 64-10): This bid item shall include all labor, tools, materials and appurtenances necessary to furnish and construct 12” AC Type C2-PG 64-10 per Section 203-1 and 203-6 as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer. All full depth joins shall be neatly sawcut or milled.

Work includes, but is not limited to, furnishing, spreading and compaction of asphalt concrete pavement surface course as shown on the project plans and typical sections. Asphalt Concrete shall be in accordance with Section 203 “Bituminous Materials”, Section 302 “Roadway Surfacing” and Section 400 “Rock Products” of the Standard Specifications.

Where base material is exposed during removal of the existing AC pavement, the base material shall be compacted to not less than 95% relative compaction prior to placement of new asphalt concrete.

Prior to the placement of any asphalt concrete, a tack coat layer shall be uniformly applied upon the existing pavement. The tack coat shall be SS-1h type asphaltic emulsion conforming to Section 203.3 of the Greenbook.

The asphalt concrete for deep lift repairs shall be spread and compacted in lifts of equal thickness not exceeding 0.25 feet in compacted thickness for each lift.

Full depth asphalt pavement repairs may be constructed at areas with unsuitable (“pumping”) subgrade if determined by the City Engineer and Soils Engineer. Full depth asphalt pavement

repair construction and locations shall be directed by the Engineer, and shall be paid under this item.

The final lift of pavement shall be placed with conventional spreader equipment. However, the Contractor shall avoid unnecessary and repeated heavy traffic loadings on the same pavement areas.

Full compensation for conforming to the requirements in this article FURNISH AND CONSTRUCT 12" AC (TYPE C2-PG 64-10) (BID ITEM 2.10) shall be considered as included in the contract bid price per Ton (TON), and shall include all labor, tools, materials and appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

ARTICLE 12.11: FURNISH AND CONSTRUCT 1" AC (TYPE B-PG 64-10): This bid item shall include all labor, tools, materials and appurtenances necessary to furnish and construct 1" AC Type B-PG 64-10 per Section 203-1 and 203-6 as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer. All full depth joins shall be neatly sawcut or milled.

Work includes, but is not limited to, furnishing, spreading and compaction of asphalt concrete pavement base course as shown on the project plans and typical sections. Asphalt Concrete shall be in accordance with Section 203 "Bituminous Materials", Section 302 "Roadway Surfacing" and Section 400 "Rock Products" of the Standard Specifications.

The provisions in Section 400-4.2.2 "Aggregate" of the Standard Specifications shall have the following additional requirement:

At least 75 percent (75%), by weight, of the material retained on the No. 4 sieve shall have at least one fractured face as determined by California Test Method No. 205.

Prime coat shall be ePrime as manufactured by Ergon Asphalt & Emulsions, Inc. or approved equivalent. Prime coat shall be applied to Cement Treated Base Surface prior to placement of AC base course.

Paint binder (tack coat) shall be SS-1h Type asphaltic emulsion conforming to Section 203.3 of the Greenbook. Tack coat shall be applied to all vertical and horizontal surfaces prior to placement of AC base.

Compacting equipment shall conform to Section 302-5 of the standard specifications, except that in very small areas a vibrating tamper, as approved by the Engineer, may be utilized. In general, it is desired that a steel wheeled roller shall always be utilized to finish off each course surface. The compaction after rolling shall be a minimum of 95 percent.

The final lift of pavement shall be placed with conventional spreader equipment. However, the Contractor shall avoid unnecessary and repeated heavy traffic loadings on the same pavement areas.

Full compensation for conforming to the requirements in this article FURNISH AND CONSTRUCT 1" AC (TYPE B-PG 64-10) (BID ITEMS 1.09 AND 2.11) shall be considered as included in the contract bid price per Ton (TON), and shall include all labor, tools, materials and appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

ARTICLE 12.12: FURNISH AND CONSTRUCT 6" AC (TYPE B-PG 64-10): This bid item shall include all labor, tools, materials and appurtenances necessary to furnish and construct 6" AC Type B-PG 64-10 per Section 203-1 and 203-6 as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer. All full depth joins shall be neatly sawcut or milled.

Work includes, but is not limited to, furnishing, spreading and compaction of asphalt concrete pavement base course as shown on the project plans and typical sections. Asphalt Concrete shall be in accordance with Section 203 "Bituminous Materials", Section 302 "Roadway Surfacing" and Section 400 "Rock Products" of the Standard Specifications.

The provisions in Section 400-4.2.2 "Aggregate" of the Standard Specifications shall have the following additional requirement:

At least 75 percent (75%), by weight, of the material retained on the No. 4 sieve shall have at least one fractured face as determined by California Test Method No. 205.

Prime coat shall be ePrime as manufactured by Ergon Asphalt & Emulsions, Inc. or approved equivalent. Prime coat shall be applied to Cement Treated Base Surface prior to placement of AC base course.

Paint binder (tack coat) shall be SS-1h Type asphaltic emulsion conforming to Section 203.3 of the Greenbook. Tack coat shall be applied to all vertical and horizontal surfaces prior to placement of AC base.

Compacting equipment shall conform to Section 302-5 of the standard specifications, except that in very small areas a vibrating tamper, as approved by the Engineer, may be utilized. In general, it is desired that a steel wheeled roller shall always be utilized to finish off each course surface. The compaction after rolling shall be a minimum of 95 percent.

The final lift of pavement shall be placed with conventional spreader equipment. However, the Contractor shall avoid unnecessary and repeated heavy traffic loadings on the same pavement areas.

Full compensation for conforming to the requirements in this article FURNISH AND CONSTRUCT 6" AC (TYPE B-PG 64-10) (BID ITEMS 1.10 AND 2.12) shall be considered as included in the contract bid price per Ton (TON), and shall include all labor, tools, materials and appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

ARTICLE 12.13: FURNISH AND CONSTRUCT 6" COMPACTED CRUSHED MISCELLANEOUS BASE (CMB): This bid item shall include all labor, tools, materials and appurtenances necessary to furnish and construct 6" compacted crushed miscellaneous base (CMB) materials as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer.

Compacting equipment shall conform to Section 302-5 of the standard specifications, except that in very small areas a vibrating tamper, as approved by the Engineer, may be utilized. In general, it is desired that a steel wheeled roller shall always be utilized to finish off each course surface. The compaction after rolling shall be a minimum of 95 percent.

Full compensation for conforming to the requirements in this article FURNISH AND CONSTRUCT 6" COMPACTED CRUSHED MISCELLANEOUS BASE (CMB) (BID ITEMS 1.11 AND 2.13) shall be considered as included in the contract bid price per Cubic Yard (CY), and shall include all labor, tools, materials and appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

ARTICLE 12.14: REMOVE EXISTING 2' WIDE PCC LONGITUDINAL GUTTER: This bid item shall include all labor, tools, materials and appurtenances necessary to remove existing longitudinal gutter as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer.

Full compensation for conforming to the requirements in this article REMOVE EXISTING 2' WIDE PCC LONGITUDINAL GUTTER (BID ITEMS 1.12 AND 2.14) shall be considered as included in the contract bid price per Linear Foot (LF), and shall include all labor, tools, materials and appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

ARTICLE 12.15: FURNISH AND CONSTRUCT 2' WIDE PCC LONGITUDINAL GUTTER: This bid item shall include the PCC concrete, CMB materials and compaction, as well as all labor, tools, materials and appurtenances necessary to furnish and construct 2' wide longitudinal gutter over CMB, compacted at 95%, as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer. New gutter shall be 8" thick PCC over 6" CMB and match existing gutter grades. Contractor shall slope to provide positive drainage.

This bid item may be increased or decreased at the discretion of the CITY. The provisions of Section 3-2.2.2 and 3-2.2.3 of the Greenbook governing increases or decreases in quantity of more than 25% shall not apply to this item.

Full compensation for conforming to the requirements in this article FURNISH AND CONSTRUCT 2' WIDE PCC LONGITUDINAL GUTTER (BID ITEMS 1.13 AND 2.15) shall be considered as included in the contract bid price per Linear Foot (LF), and shall include all labor, tools, materials and appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

ARTICLE 12.16: SAWCUT AND REMOVE EXISTING AND FURNISH AND CONSTRUCT 6" THICK PCC PAVEMENT: This bid item shall include all labor, tools, materials and appurtenances necessary to sawcut and remove existing, compaction of subgrade and base material and furnish and construct 6" PCC pavement as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer.

Full compensation for conforming to the requirements in this article SAWCUT AND REMOVE EXISTING AND FURNISH AND CONSTRUCT 6" THICK PCC PAVEMENT (BID ITEM 1.14) shall be considered as included in the contract bid price per Square Foot (SF), and shall include all labor, tools, materials and appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

ARTICLE 12.17: REMOVE EXISTING PCC AND AC PAVEMENT AND FURNISH AND CONSTRUCT 4" THICK PCC PAVEMENT: This bid item shall include all labor, tools, materials and appurtenances necessary to remove existing PCC and AC pavement, compaction of subgrade and base material and furnish and construct 4" PCC pavement as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer.

Full compensation for conforming to the requirements in this article REMOVE EXISTING PCC AND AC PAVEMENT AND FURNISH AND CONSTRUCT 4" THICK PCC PAVEMENT (BID ITEM 1.15) shall be considered as included in the contract bid price per Square Foot (SF), and shall include all labor, tools, materials and appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

ARTICLE 12.18: FURNISH AND CONSTRUCT ALHAMBRA FOUNDRY A-2446, 6" WIDE TRENCH DRAIN OR APPROVED EQUAL WITH 4" STEEL CONNECTOR PIPE: This bid item shall include all labor, tools, materials and appurtenances necessary to furnish and construct Alhambra Foundry A-2446, 6" wide trench drain or approved equal as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer.

Payment for the 4" steel connector pipe, length as shown on the plans, shall be included in the contract bid price.

This bid item may be increased or decreased at the discretion of the CITY. The provisions of Section 3-2.2.2 and 3-2.2.3 of the Greenbook governing increases or decreases in quantity of more than 25% shall not apply to this item.

Trench excavation shall include, without classification, the removal of all materials of whatever nature encountered, including all asphalt or other obstructions of every nature that would interfere with the proper execution and completion of the work. The Contractor shall furnish, place and maintain all supports and shoring as set forth in the rules, orders and regulations of the Division of Industrial Safety of the State of California. The Contractor shall supply all pumping, ditching or other approved measure to effect the removal or exclusion of water, storm water

and/or wastewater reaching the site of the work from any source so as to prevent damage to the work.

Full compensation for conforming to the requirements in this article FURNISH AND CONSTRUCT ALHAMBRA FOUNDRY A-2446, 6" WIDE TRENCH DRAIN OR APPROVED EQUAL WITH 4" STEEL CONNECTOR PIPE (BID ITEMS 1.16 AND 2.16) shall be considered as included in the contract bid price per Linear Foot (LF), and shall include all labor, tools, materials and appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

ARTICLE 12.19: REMOVE EXISTING PCC SIDEWALK AND FURNISH AND CONSTRUCT APWA, SPPWC STD. PLAN 151-2, S=18" PARKWAY DRAIN: This bid item shall include all labor, tools, materials and appurtenances necessary to remove existing PCC sidewalk and furnish and construct APWA, SPPWC STD. Plan 151-2, S=18" parkway drain as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer.

The Contractor shall sawcut and remove existing sidewalk, base, subgrade, and other in-place materials as necessary for construction; prepare the subgrade; place base; and construct parkway drain where noted and as shown per detail drawings.

No open excavations will be allowed over a weekend or holiday. The Contractor shall schedule work to accommodate this requirement. All concrete must be in place and forms removed prior to weekends and holidays.

This bid item may be increased or decreased at the discretion of the CITY. The provisions of Section 3-2.2.2 and 3-2.2.3 of the Greenbook governing increases or decreases in quantity of more than 25% shall not apply to this item.

Full compensation for conforming to the requirements in this article REMOVE EXISTING PCC SIDEWALK AND FURNISH AND CONSTRUCT APWA, SPPWC STD. PLAN 151-2, S=18" PARKWAY DRAIN (BID ITEMS 1.17 AND 2.17) shall be considered as included in the contract bid price per Each (EA), and shall include all labor, tools, materials and appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

ARTICLE 12.20: TRAFFIC STRIPING, MARKINGS AND RAISED PAVEMENT MARKERS: This bid item shall include all labor, tools, materials and appurtenances necessary to furnish and install traffic striping, markings and raised pavement markers as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer.

The Contractor shall document all existing striping and pavement markings, and raised pavement markers for areas which will be removed during construction. Contractor shall lay out and install new striping and markings to replace existing striping, markings and raised pavement markers, including the installation of blue reflective raised pavement markers at all fire hydrant locations. Striping and Markings shall be painted (two coats of paint with reflective beads), unless

otherwise shown, and shall be placed per Caltrans Standard Specification Section 84: Traffic Stripes and Pavement Markings. Raised pavement markers shall be approved by the Engineer. The work shall include surface preparation, layout, material placement, curing, protection, testing, traffic control and all other work necessary to install the striping, markings and raised pavement markers.

Glass beads shall be applied to pavement markings and striping by a dispensing device developed for this purpose or other methods approved by the Engineer. Streets and surrounding areas are to be kept clean of excess beads.

The Contractor shall furnish the necessary control points for replacement of all striping and markings and shall be responsible for the completeness and accuracy thereof to the satisfaction of the Engineer. No striping or markings shall be installed until the layout has been specifically approved by the Engineer.

Spotting shall be completed prior to the installation of any striping and markings.

After completion of paving, the Contractor shall install two-way blue raised reflectors on the pavement two (2) feet from centerline of the street (hydrant side) aligned with each fire hydrant location per City requirements.

Full compensation for conforming to the requirements in this article TRAFFIC STRIPING, MARKINGS AND RAISED PAVEMENT MARKERS (BID ITEMS 1.18 AND 2.18) shall be considered as included in the contract bid price per Lump Sum (LS), and shall include all labor, tools, materials and appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

ARTICLE 12.21: REMOVE AND DISPOSE OF EXISTING SPEED BUMP: This bid item shall include all labor, tools, materials and appurtenances necessary to remove and properly dispose of existing speed bump complete in place as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer.

Full compensation for conforming to the requirements in this article REMOVE AND DISPOSE OF EXISTING SPEED BUMP (BID ITEM 1.19) shall be considered as included in the contract bid price per Each (EA), and shall include all labor, tools, materials and appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

ARTICLE 12.22: REMOVE EXISTING AND FURNISH AND CONSTRUCT SPEED HUMP: This bid item shall include all labor, tools, materials and appurtenances necessary to remove existing and furnish and construct speed humps complete in place as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer.

The Contractor shall saw cut and remove existing AC speed humps, AC pavement, subgrade, and other in-place materials as necessary for construction; and construct AC speed humps per detail

as shown on Plan Sheet 2. This article shall include excavation, AC pavement, subgrade compaction, restoring of any disturbed irrigation/landscaping and striping of speed hump.

Striping for the speed humps shall conform to the Detail as shown on Plan Sheet 2.

Full compensation for conforming to the requirements in this article REMOVE EXISTING AND FURNISH AND CONSTRUCT SPEED HUMP (BID ITEMS 1.20 AND 2.19) shall be considered as included in the contract bid price per Each (EA), and shall include all labor, tools, materials and appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

ARTICLE 12.23: FURNISH AND CONSTRUCT 15' X 15' PCC CONCRETE LOCAL DEPRESSION: This bid item shall include all labor, tools, materials and appurtenances necessary to furnish and construct concrete local depressions at existing catch basins complete in place as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer.

The work shall include, but not be limited to, saw-cut, excavation, removal and proper disposal of removed material, necessary to construct the concrete local depression.

This bid item may be increased or decreased at the discretion of the CITY. The provisions of Section 3-2.2.2 and 3-2.2.3 of the Greenbook governing increases or decreases in quantity of more than 25% shall not apply to this item.

Full compensation for conforming to the requirements in this article FURNISH AND CONSTRUCT 15' X 15' PCC CONCRETE LOCAL DEPRESSION (BID ITEMS 1.21 AND 2.20) shall be considered as included in the contract bid price per Each (EA), and shall include all labor, tools, materials and appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

ARTICLE 12.24: ADJUST WATER VALVE TO GRADE: This bid item shall include all labor, tools, materials and appurtenances necessary to adjust water valves to grade as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer.

The work shall include, but not be limited to, saw-cut, excavation, removal and proper disposal of removed material, as well as protection, removal or lowering of the water valve during demolition and preparation, setting the structure to grade, and forming pavement or other constructed work around the structure. The work may include replacement with a new structure or cover to be provided by others. The finished adjustment shall be flush to adjacent surfaces and of sufficient strength to support anticipated traffic. All utility adjustment work and safety requirements shall be coordinated with the appropriate utility agency. If a lid or cover is to be replaced, the Contractor shall coordinate said replacement with the appropriate utility agency.

The Contractor shall verify in the field, with the CITY Water Department, the actual quantity and locations of the water valve box and cover adjustments. The CITY Water Department will

provide the Contractor with new utility covers, in lieu of existing damaged covers, to install and adjust to grade per CITY Standard Detail W-4.

The Contractor shall remove all debris from within valve sleeves. Additional adjustments shall be necessary to keep the valve lid level with the surrounding pavement as the pavement is lowered and raised during the construction process.

Full compensation for conforming to the requirements in this article ADJUST WATER VALVE TO GRADE (BID ITEMS 1.22 AND 2.21) shall be considered as included in the contract bid price per Each (EA), and shall include all labor, tools, materials and appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

ARTICLE 12.25: ADJUST MANHOLE TO GRADE: This bid item shall include all labor, tools, materials and appurtenances necessary to adjust manhole to grade as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer.

The work shall include, but not be limited to, saw-cut, excavation, removal and proper disposal of removed material, as well as protection, removal or lowering of the manhole rims during demolition and preparation, setting the manhole rim to grade, and forming pavement or other constructed work around the structure. The finished adjustment shall be flush to adjacent surfaces and of sufficient strength to support anticipated traffic.

Full compensation for conforming to the requirements in this article ADJUST MANHOLE TO GRADE (BID ITEM 1.23) shall be considered as included in the contract bid price per Each (EA), and shall include all labor, tools, materials and appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

ARTICLE 12.26: ADJUST UTILITY PULL BOX TO GRADE: This bid item shall include all labor, tools, materials and appurtenances necessary to adjust utility pull box to grade as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer.

The work shall include, but not be limited to, saw-cut, excavation, removal and proper disposal of removed material, as well as protection, removal or lowering of the pull box during demolition and preparation, setting the pull box to grade, and forming pavement or other constructed work around the structure. The finished adjustment shall be flush to adjacent surfaces and of sufficient strength to support anticipated traffic. All utility adjustment work and safety requirements shall be coordinated with the appropriate utility agency. Additional adjustments shall be necessary to keep the pull box lid level with the surrounding pavement as the pavement is lowered and raised during the construction process.

Full compensation for conforming to the requirements in this article ADJUST UTILITY PULL BOX TO GRADE (BID ITEM 2.22) shall be considered as included in the contract bid price per Each (EA), and shall include all labor, tools, materials and appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

ARTICLE 12.27: REMOVE, HAUL AWAY AND DISPOSE OF SIGN AND POST: This bid item shall include all labor, tools, materials and appurtenances necessary to remove, haul away and dispose of existing sign, post and any foundation as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer.

Full compensation for conforming to the requirements in this article REMOVE, HAUL AWAY AND DISPOSE OF SIGN AND POST (BID ITEMS 1.24 AND 2.23) shall be considered as included in the contract bid price per Each (EA), and shall include all labor, tools, materials and appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

ARTICLE 12.28: REMOVE, SALVAGE AND REPLACE EXISTING WHEEL STOPS: This bid item shall include all labor, tools, materials and appurtenances necessary to remove, salvage and replace existing wheel stops as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer.

Full compensation for conforming to the requirements in this article REMOVE, SALVAGE AND REPLACE EXISTING WHEEL STOPS (BID ITEMS 1.25 AND 2.24) shall be considered as included in the contract bid price per Each (EA), and shall include all labor, tools, materials and appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

ARTICLE 12.29: FURNISH AND INSTALL TELES PAR POST AND 24" STOP SIGN R1-1: This bid item shall include all labor, tools, materials and appurtenances necessary to furnish and install telespar post and 24" stop sign R1-1 as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer.

Full compensation for conforming to the requirements in this article FURNISH AND INSTALL TELES PAR POST AND 24" STOP SIGN R1-1 (BID ITEMS 1.26 AND 2.25) shall be considered as included in the contract bid price per Each (EA), and shall include all labor, tools, materials and appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

ARTICLE 12.30: FURNISH AND INSTALL 24" RIGHT/LEFT TURN ONLY SIGN W1-1: This bid item shall include all labor, tools, materials and appurtenances necessary to furnish and install 24" right or left turn only sign W1-1 by mounting on existing block wall or existing light post as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer.

Full compensation for conforming to the requirements in this article FURNISH AND INSTALL 24" RIGHT/LEFT TURN ONLY SIGN W1-1 (BID ITEMS 1.27 AND 2.26) shall be considered as included in the contract bid price per Each (EA), and shall include all labor, tools, materials and appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

ARTICLE 12.31: FURNISH AND INSTALL NO PARKING, FIRE LANE SIGN: This bid item shall include all labor, tools, materials and appurtenances necessary to furnish and install no parking, fire lane sign by mounting on existing block wall as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer.

Full compensation for conforming to the requirements in this article FURNISH AND INSTALL NO PARKING, FIRE LANE SIGN (BID ITEM 1.28) shall be considered as included in the contract bid price per Each (EA), and shall include all labor, tools, materials and appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

ARTICLE 12.32: REMOVE, SALVAGE AND REPLACE EXISTING WOOD FENCE AS NEEDED TO CONSTRUCT LONGITUDINAL GUTTER: This bid item shall include all labor, tools, materials and appurtenances necessary to remove, salvage and replace existing wood fence as needed to construct longitudinal gutter as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer.

Full compensation for conforming to the requirements in this article REMOVE, SALVAGE AND REPLACE EXISTING WOOD FENCE AS NEEDED TO CONSTRUCT LONGITUDINAL GUTTER (BID ITEM 1.29) shall be considered as included in the contract bid price per Lump Sum (LS), and shall include all labor, tools, materials and appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

ARTICLE 12.33: REMOVE EXISTING, FURNISH AND INSTALL DETECTABLE WARNING TRUNCATED DOMES PER SPPWC STD. 111-5: This bid item shall include all labor, tools, materials and appurtenances necessary to remove existing, furnish and install detectable warning truncated domes per SPPWC STD. 111-5 as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer.

Detectable warning truncated domes shall conform to the standard plans and shall be precast tactile tiles by Armor-Tile or approved equal, extending the full width of ramp. Edge of detectable warning tile is to be parallel to adjacent to the street or tangent to the curb return. The color of the detectable warning surface shall be BLACK unless otherwise specified.

The Contractor shall submit to the Engineer for review the following items:

- A. Product Data: Submit manufacturer's literature describing products, installation procedures and routine maintenance.
- B. Samples: Submit two tile samples of the kind proposed for use (minimum size 6" by 8").
- C. Materials Test Reports: Submit test reports from qualified independent testing laboratory indicating that materials proposed for use are in compliance with requirements and meet the properties indicated. All test reports shall be conducted on a cast-in-place tactile tile system as certified by a qualified independent testing laboratory.

D. Maintenance Instructions: Submit copies of manufacturer's specified maintenance practices for each type of tactile tile and accessory as required.

The manufacturer shall provide a written five year warranty for prefabricated detectable warning surfaces, guaranteeing replacement when there is defect in the dome shape, color fastness, sound-on-cane acoustic quality, resilience, or attachment. The warranty period shall begin upon acceptance of the project.

Full compensation for conforming to the requirements in this article REMOVE EXISTING, FURNISH AND INSTALL DETECTABLE WARNING TRUNCATED DOMES PER SPPWC STD. 111-5 (BID ITEM 2.27) shall be considered as included in the contract bid price per Square Feet (SF), and shall include all labor, tools, materials and appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

ARTICLE 12.34: FURNISH AND INSTALL DISABLED ACCESSIBLE PARKING SIGN AND POST PER SPPWC STD 180-0: This bid item shall include all labor, tools, materials and appurtenances necessary to furnish and install disabled accessible parking sign and post per SPPWC STD 180-0 as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer.

Full compensation for conforming to the requirements in this article FURNISH AND INSTALL DISABLED ACCESSIBLE PARKING SIGN AND POST PER SPPWC STD 180-0 (BID ITEM 2.28) shall be considered as included in the contract bid price per Each (EA), and shall include all labor, tools, materials and appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

ARTICLE 12.35: REMOVE, HAUL AWAY AND DISPOSE OF EXISTING SIGN: This bid item shall include all labor, tools, materials and appurtenances necessary to remove, haul away and dispose of existing sign as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer.

Full compensation for conforming to the requirements in this article REMOVE, HAUL AWAY AND DISPOSE OF EXISTING SIGN (BID ITEM 1.30) shall be considered as included in the contract bid price per Each (EA), and shall include all labor, tools, materials and appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

ARTICLE 12.36: RELOCATE EXISTING SIGN: This bid item shall include all labor, tools, materials and appurtenances necessary to relocate existing sign as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer.

Full compensation for conforming to the requirements in this article RELOCATE EXISTING SIGN (BID ITEM 1.31) shall be considered as included in the contract bid price per Each (EA), and shall include all labor, tools, materials and appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

ARTICLE 12.37: REMOVE EXISTING AND FURNISH AND CONSTRUCT 1.7' WIDE CURB AND GUTTER: This bid item shall include all labor, tools, materials and appurtenances necessary to remove existing and furnish and construct 1.7' wide concrete rolled curb and gutter over 6" compacted CMB as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer.

Full compensation for conforming to the requirements in this article REMOVE EXISTING AND FURNISH AND CONSTRUCT 1.7' WIDE CURB AND GUTTER (BID ITEM 1.32) shall be considered as included in the contract bid price per Linear Foot (LF), and shall include all labor, tools, materials and appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

ARTICLE 12.38: CLEAN EXISTING DRAINAGE PIPE AND INSTALL NDS 4" ROUND GRATE OR APPROVED EQUAL: This bid item shall include all labor, tools, materials and appurtenances necessary to clean existing drainage pipe and install NDS 4" round grate or approved equal as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer.

Full compensation for conforming to the requirements in this article CLEAN EXISTING DRAINAGE PIPE AND INSTALL NDS 4" ROUND GRATE OR APPROVED EQUAL (BID ITEM 1.33) shall be considered as included in the contract bid price per Lump Sum (LS), and shall include all labor, tools, materials and appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

ARTICLE 12.39: FURNISH AND CONSTRUCT SPEED HUMP: This bid item shall include all labor, tools, materials and appurtenances necessary to furnish and construct speed humps complete in place as required by plans, specifications, contract documents and drawings, and as ordered by the Engineer.

The Contractor shall construct AC speed humps per detail as shown on Plan Sheet 2. This article shall include restoring of any disturbed irrigation/landscaping and striping of speed hump. Striping for the speed humps shall conform to the Detail as shown on Plan Sheet 2.

Full compensation for conforming to the requirements in this article FURNISH AND CONSTRUCT SPEED HUMP (BID ITEM 1.34) shall be considered as included in the contract bid price per Each (EA), and shall include all labor, tools, materials and appurtenances necessary to complete the work and no additional compensation will be allowed therefor.

SECTION D

PROPOSAL

PROPOSAL

City of La Habra
Civic Center
110 E. La Habra Blvd.
La Habra, California 90631

Gentlemen:

The undersigned hereby proposes to perform all work for which a contract may be awarded him and to furnish any and all plant, labor, services, materials, tools, equipment, supplies, transportation, utilities, and all other items and facilities necessary therefor as provided in the Contract Documents, and to do everything required therein for the project specifically set forth in documents entitled:

PARK LA HABRA MOBILE HOMES PARK AND VIEW PARK MOBILE HOME ESTATES PARK STREET IMPROVEMENTS CITY PROJECT NO. 3-R-17

together with appurtenances thereto, all as set forth on the drawing and in the specifications and other Contract Documents; and, he further proposes and agrees that if this Proposal is accepted he will contract in the form and manner stipulated to perform all the work called for by drawings, specifications and other Contract Documents and to complete all such work in strict conformity therewith within the time limits set forth therein, and that he will accept as full payment therefor the prices set forth in the Bid Schedule forming a part hereof.

A *(Cashier's Check) *(Certified Check) *(Bid Bond) properly made payable to City of La Habra hereinafter designated as the Owner for the sum of _____ dollars (\$_____), which amount is not less than ten percent (10%) of the total amount of this bid, is attached hereto and is given as a guarantee that the undersigned will execute the Agreement and furnish the required bonds if awarded the Contract; and, in case of failure to do so within the time provided the proceeds of said check shall be forfeited to the *Owner/Sureties Liability to the Owner for forfeiture of the face amount of the Bond shall be considered as established.

(*) Delete inapplicable word or phrase.

It is understood and agreed that:

1. The undersigned has carefully examined all the Contract Documents which will form a part of the Contract;
2. The undersigned has, by investigation of the site of the work and otherwise, satisfied himself as to the nature and location of the work and has fully informed himself as to all conditions and matters which can in any way affect the work or the cost thereof;

3. The undersigned fully understands the scope of the work and has checked carefully all words and figures inserted in this proposal and he further understands that the Owner will in no way be responsible for any errors or omissions in the preparation of this proposal;
4. The undersigned will execute the Agreement and furnish the required Performance and Payment Bonds and proof of insurance coverage, within ten (10) days (not including Saturdays, Sundays and holidays) after notice to him of acceptance of his bid by the Owner; and further, that this bid may not be withdrawn for a period of sixty (60) days after the date set for the opening thereof, unless otherwise required by law. If any bidder shall withdraw his bid within said period, the Contractor shall be liable under the provisions of the Bid Security or the Contract and his surety shall be liable under the Bid Bond, as the case may be;
5. The undersigned hereby certifies that this proposal is genuine and not sham or collusive or made in the interest or in behalf of any person not herein named and the undersigned has not directly or indirectly induced or solicited any other bidder to put in a sham bid or any other person, firm or corporation to refrain from bidding; the undersigned has not in any manner sought by collusion to secure for himself an advantage over any other bidder;
6. In conformance with current statutory requirements of Section 1860, et seq., of the Labor Code of the State of California, the undersigned confirms the following as his certification:

I am aware of the provisions of Section 3700 of the Labor Code which requires every employer to be insured against liability of worker's compensation or to undertake self insurance in accordance with the provisions before commencing the performance of the work of this contract.

NOW, in compliance with the Notice Inviting Bids and all the provisions hereinbefore stipulated, the undersigned, with full cognizance thereof, hereby proposes to perform the entire work for the prices set forth in the attached Bid Schedule upon which award of the Contract is made.

Date: _____, 2021

Bidder_____

By_____

Title_____

Bidder's Post Office Address:

Corporation organized under
the laws of the State of

Names and addresses of all owners
of the firm or names and titles of
all officers of the corporation:

(corporate seal)

BIDDER'S INFORMATION

Contractor's License No. _____ Expiration Date _____

Classification of Contractor's License No. _____

Contractor _____
(name of firm)

By _____
(signature) (title)

Business Address: _____

Phone (____) _____

I/We certify that the information provided above is complete and true to the best of my/our knowledge.

Contractor Date

Contractor's DIR Public Works Registration No. _____

EXHIBIT A
BID SCHEDULE 1 – PARK LA HABRA

**PARK LA HABRA MOBILE HOMES PARK AND VIEW PARK MOBILE
HOME ESTATES PARK STREET IMPROVEMENTS
CITY PROJECT NO. 3-R-17**

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
1.01	MOBILIZATION (Not to Exceed Five Percent (5%) of the total bid amount)	1	LS		
1.02	TRAFFIC CONTROL, SAFETY AND CLEAN UP	1	LS		
1.03	CONSTRUCTION SURVEY, STAKING AND MONUMENT PERPETUATION	1	LS		
1.04	STORM WATER BEST MANAGEMENT PRACTICES (BMPs)	1	LS		
1.05	SAWCUT/COLD MILL EXISTING AC PAVEMENT 3" DEPTH	26,575	SF		
1.06	SAWCUT AND REMOVE 8" FULL DEPTH STRUCTURAL SECTION	1,000	CY		
1.07	SAWCUT AND REMOVE 14" FULL DEPTH STRUCTURAL SECTION	515	CY		
1.08	FURNISH AND CONSTRUCT 2" AC (TYPE C2-PG 64-10)	1,000	TON		
1.09	FURNISH AND CONSTRUCT 1" AC (TYPE B-PG 64-10)	180	TON		
1.10	FURNISH AND CONSTRUCT 6" AC (TYPE B-PG 64-10)	1,925	TON		
1.11	FURNISH AND CONSTRUCT 6" COMPACTED CRUSHED MISCELLANEOUS BASE (CMB)	220	CY		
1.12	REMOVE EXISTING 2' WIDE PCC LONGITUDINAL GUTTER	555	LF		
1.13	FURNISH AND CONSTRUCT 2' WIDE PCC LONGITUDINAL GUTTER	2,275	LF		
1.14	SAWCUT AND REMOVE EXISTING AND FURNISH AND CONSTRUCT 6" THICK PCC PAVEMENT	65	SF		
1.15	REMOVE EXISTING PCC AND AC PAVEMENT AND FURNISH AND CONSTRUCT 4" THICK PCC PAVEMENT	180	SF		
1.16	FURNISH AND CONSTRUCT ALHAMBRA FOUNDRY A-2446, 6" WIDE TRENCH DRAIN OR APPROVED EQUAL WITH 4" STEEL CONNECTOR PIPE	25	LF		

1.17	REMOVE EXISTING PCC SIDEWALK AND FURNISH AND CONSTRUCT APWA, SPPWC STD. PLAN 151-2, S=18" PARKWAY DRAIN	1	EA		
1.18	TRAFFIC STRIPING, MARKINGS AND RAISED PAVEMENT MARKERS	1	LS		
1.19	REMOVE AND DISPOSE OF EXISTING SPEED BUMP	1	EA		
1.20	REMOVE EXISTING AND FURNISH AND CONSTRUCT SPEED HUMP	11	EA		
1.21	FURNISH AND CONSTRUCT 15' X 15' PCC CONCRETE LOCAL DEPRESSION	1	EA		
1.22	ADJUST WATER VALVE TO GRADE	26	EA		
1.23	ADJUST MANHOLE TO GRADE	1	EA		
1.24	REMOVE, HAUL AWAY AND DISPOSE OF SIGN AND POST	4	EA		
1.25	REMOVE, SALVAGE AND REPLACE EXISTING WHEEL STOPS	8	EA		
1.26	FURNISH AND INSTALL TELESAR POST AND 24" STOP SIGN R1-1	13	EA		
1.27	FURNISH AND INSTALL 24" RIGHT/LEFT TURN ONLY SIGN W1-1	2	EA		
1.28	FURNISH AND INSTALL NO PARKING, FIRE LANE SIGN	5	EA		
1.29	REMOVE, SALVAGE AND REPLACE EXISTING WOOD FENCE AS NEEDED TO CONSTRUCT LONGITUDINAL GUTTER	1	LS		
1.30	REMOVE, HAUL AWAY AND DISPOSE OF EXISTING SIGN	3	EA		
1.31	RELOCATE EXISTING SIGN	1	EA		
1.32	REMOVE EXISTING AND FURNISH AND CONSTRUCT 1.7' WIDE CURB AND GUTTER	45	LF		
1.33	CLEAN EXISTING DRAINAGE PIPE AND INSTALL NDS 4" ROUND GRATE OR APPROVED EQUAL	1	LS		
1.34	FURNISH AND CONSTRUCT SPEED HUMP	3	EA		

TOTAL BID PRICE (BID SCHEDULE 1 – PARK LA HABRA) IN FIGURES:

\$ _____

TOTAL BID PRICE (BID SCHEDULE 1 – PARK LA HABRA) IN WORDS:

BID SCHEDULE 2 – VIEW PARK

**PARK LA HABRA MOBILE HOMES PARK AND VIEW PARK MOBILE
HOME ESTATES PARK STREET IMPROVEMENTS
CITY PROJECT NO. 3-R-17**

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
2.01	MOBILIZATION (Not to Exceed Five Percent (5%) of the total bid amount)	1	LS		
2.02	TRAFFIC CONTROL, SAFETY AND CLEAN UP	1	LS		
2.03	CONSTRUCTION SURVEY, STAKING AND MONUMENT PERPETUATION	1	LS		
2.04	STORM WATER BEST MANAGEMENT PRACTICES (BMPs)	1	LS		
2.05	SAWCUT/COLD MILL EXISTING AC PAVEMENT 3" DEPTH	22,600	SF		
2.06	SAWCUT AND REMOVE 8" FULL DEPTH STRUCTURAL SECTION	1,250	CY		
2.07	SAWCUT AND REMOVE 12" FULL DEPTH STRUCTURAL SECTION	185	CY		
2.08	SAWCUT AND REMOVE 14" FULL DEPTH STRUCTURAL SECTION	975	CY		
2.09	FURNISH AND CONSTRUCT 2" AC (TYPE C2-PG 64-10)	1,250	TON		
2.10	FURNISH AND CONSTRUCT 12" AC (TYPE C2-PG 64-10)	400	TON		
2.11	FURNISH AND CONSTRUCT 1" AC (TYPE B-PG 64-10)	155	TON		
2.12	FURNISH AND CONSTRUCT 6" AC (TYPE B-PG 64-10)	2,850	TON		
2.13	FURNISH AND CONSTRUCT 6" COMPACTED CRUSHED MISCELLANEOUS BASE (CMB)	575	CY		
2.14	REMOVE EXISTING 2' WIDE PCC LONGITUDINAL GUTTER	1,800	LF		
2.15	FURNISH AND CONSTRUCT 2' WIDE PCC LONGITUDINAL GUTTER	4,225	LF		
2.16	FURNISH AND CONSTRUCT ALHAMBRA FOUNDRY A-2446, 6" WIDE TRENCH DRAIN OR APPROVED EQUAL WITH 4" STEEL CONNECTOR PIPE	40	LF		

2.17	REMOVE EXISTING PCC SIDEWALK AND FURNISH AND CONSTRUCT APWA, SPPWC STD. PLAN 151-2, S=18" PARKWAY DRAIN	1	EA		
2.18	TRAFFIC STRIPING, MARKINGS AND RAISED PAVEMENT MARKERS	1	LS		
2.19	REMOVE EXISTING AND FURNISH AND CONSTRUCT SPEED HUMP	19	EA		
2.20	FURNISH AND CONSTRUCT 15' X 15' PCC CONCRETE LOCAL DEPRESSION	1	EA		
2.21	ADJUST WATER VALVE TO GRADE	33	EA		
2.22	ADJUST UTILITY PULL BOX TO GRADE	11	EA		
2.23	REMOVE, HAUL AWAY AND DISPOSE OF SIGN AND POST	9	EA		
2.24	REMOVE, SALVAGE AND REPLACE EXISTING WHEEL STOPS	11	EA		
2.25	FURNISH AND INSTALL TELES PAR POST AND 24" STOP SIGN R1-1	10	EA		
2.26	FURNISH AND INSTALL 24" RIGHT/LEFT TURN ONLY SIGN W1-1	1	EA		
2.27	REMOVE EXISTING, FURNISH AND INSTALL DETECTABLE WARNING TRUNCATED DOMES PER SPPWC STD. 111-5	162	SF		
2.28	FURNISH AND INSTALL DISABLED ACCESSIBLE PARKING SIGN AND POST PER SPPWC STD. 180-0	1	EA		

TOTAL BID PRICE (BID SCHEDULE 2 – VIEW PARK) IN FIGURES:

\$ _____

TOTAL BID PRICE (BID SCHEDULE 2 – VIEW PARK) IN WORDS:

IN FIGURES

BID SCHEDULE 1	\$
BID SCHEDULE 2	\$
TOTAL BID PRICE (BID SCHEDULE 1 + BID SCHEDULE 2)	\$

**TOTAL BID PRICE (BID SCHEDULE 1 + BID SCHEDULE 2 COMBINED)
IN WORDS:**

NOTE: THE TOTAL BID PRICE (BID SCHEDULE 1 + BID SCHEDULE 2 COMBINED)
SHALL BE USED AS THE BASIS OF BID IN DETERMINING THE LOW BID FOR THIS
PROJECT.

Note: Excavation is included in the various bid items.

CONTRACTOR

BY

TITLE

DATE

ACKNOWLEDGEMENT OF ADDENDA RECEIVED

The Bidder shall acknowledge the receipt of addenda by placing an "X" by each addendum received.

Addendum No. 1 _____

Addendum No. 2 _____

Addendum No. 3 _____

Addendum No. 4 _____

Addendum No. 5 _____

Addendum No. 6 _____

Addendum No. 7 _____

Addendum No. 8 _____

If an addendum or addenda have been issued by the CITY and is not noted above as being received by the Bidder, the Bid Proposal may be rejected.

REFERENCES

[Work similar in scope magnitude and degree of difficulty completed by Contractor within the past three (3) years.]

1. Name (Firm/Agency): _____
Address: _____
Contact Person: _____ Telephone No. _____
Title of Project: _____
Project Location: _____
Date of Completion: _____ Contract Amount: \$ _____
2. Name (Firm/Agency): _____
Address: _____
Contact Person: _____ Telephone No. _____
Title of Project: _____
Project Location: _____
Date of Completion: _____ Contract Amount: \$ _____
3. Name (Firm/Agency): _____
Address: _____
Contact Person: _____ Telephone No. _____
Title of Project: _____
Project Location: _____
Date of Completion: _____ Contract Amount: \$ _____
4. Name (Firm/Agency): _____
Address: _____
Contact Person: _____ Telephone No. _____
Title of Project: _____
Project Location: _____
Date of Completion: _____ Contract Amount: \$ _____

If Contractor has not performed work for the City of La Habra within the last five (5) years, list all work done within said five years (attach additional sheets if necessary). Note if work was done as subcontractor (include only subcontract amount):

Work Description & Contract Amount	Agency	Date Completed

Contractor's License No.: _____ Class: _____

a. Date first obtained: _____ Expiration: _____

b. Has License ever been suspended or revoked? _____

If yes, described when and why: _____

c. Any current claims against License or Bond? _____

If yes, describe claims: _____

Principals in Company (List all – attach additional sheets if necessary):

<u>NAME</u>	<u>TITLE</u>	<u>LICENSE NO.</u> (If Applicable)
_____	_____	_____
_____	_____	_____
_____	_____	_____

DBE BIDDER'S LIST

All bidders/proposers are requested to provide the following information for all DBE and non-DBE contractors or consultants who provided a proposal, bid, quote, or were contacted by the proposed prime. This information is also requested from the proposed prime contractor/consultant and should be submitted with their bid/proposal. The City of La Habra will use this information to maintain and update a “Bidders” List to assist in the overall annual DBE goal-setting process.

Firm Name: _____ **Phone:** _____

Address: _____ **Fax:** _____

Contact Person: _____ **No. of years in business:** _____

Is the firm currently certified as a DBE under 49 CFR Part 26: YES: ____ NO: ____

Type of work/services/materials provided by firm? _____

What was your firm's Gross Annual receipts for last year?

Less than \$1 Million

Less than \$5 Million

Less than \$10 Million

Less than \$15 Million

More than \$15 Million

This form can be duplicated if necessary to report all bidders (DBEs and non-DBEs) information.

VIOLATIONS OF FEDERAL, STATE, OR LOCAL LAWS

1. Has your firm or its officers been assessed any penalties by an agency for noncompliance or violations of Federal, State, or Local labor laws and/or business or licensing regulations within the past five (5) years relating to your construction projects?

Yes/No: _____ Federal/State: _____

If “yes”, identify and describe, (including agency and status):

Have the penalties been paid? Yes/No: _____

2. Does your firm or its officers have any ongoing investigations by any public agency regarding violations of the State Labor Code, California Business and Professions Code or State Licensing Laws?

Yes/No: _____ Code/Laws: _____ Section/Article: _____

If “yes”, identify and describe, (including agency and status):

DISQUALIFICATION OR DEBARMENT

Has your firm, any officer of your firm, or any employee who has a proprietary interest in your firm ever been disqualified, removed, or otherwise prevented from bidding on, performing work on, or completing a federal, state, or local project because of a violation of law or a safety regulation?

Yes/No: _____

If yes, provide the following information (if more than once, use separate sheets):

Date: _____ Entity: _____

Location: _____

Reason: _____

Provide Status and any Supplemental Statement: _____

Has your firm been reinstated by this entity?

Yes/No: _____

LIST OF SUBCONTRACTORS

**PARK LA HABRA MOBILE HOMES PARK AND VIEW PARK MOBILE
HOME ESTATES PARK STREET IMPROVEMENTS
CITY PROJECT NO. 3-R-17**

The bidder shall list below the name and the location of the place of business of each Subcontractor who will perform work or render services to the prime contractor in or about the construction of the work or improvement in excess of one-half of one percent (1/2%) of the prime contractor's total bid or ten thousand dollars (\$10,000.00) whichever is greater in accordance with the requirements of Section 4100 to 4133 inclusive of the public contracts code.

<u>Work to be Performed</u>	<u>License Number</u>	<u>Subcontractor and Address of Office, Mill or Shops</u>	<u>Percent of Total Contract</u>

Note: Do not list alternative subcontractors for the same work.

Contractor _____

BID SECURITY FORM

(Check to Accompany Bid)

(Note: The following form shall be used in case check accompanies bid.)

Accompanying this proposal is a *(Certified) *(Cashiers) check payable to the order of the City of La Habra, California, hereinafter referred to as "Owner", for

**PARK LA HABRA MOBILE HOMES PARK AND VIEW PARK MOBILE
HOME ESTATES PARK STREET IMPROVEMENTS
CITY PROJECT NO. 3-R-17**

In the amount of \$_____ Dollars,
this amount being ten percent (10%) of the total amount of the bid. The proceeds of this check shall become the property of said Owner provided this proposal shall be accepted by the said Owner through action if its legally constituted contracting authorities and the undersigned shall fail to execute a contract and furnish the required Performance and Payment Bonds and proof of insurance coverage within the stipulated time; otherwise, the check shall be returned to the undersigned. The proceeds of this check shall also become the property of the Owner if the undersigned shall withdraw his bid within the period of forty-five (45) days after the date set for the opening thereof unless otherwise required by law and notwithstanding the award of the Contract to another bidder.

Bidder

*Delete the inapplicable word.

NOTE: If the bidder desires to use a bond instead of a check, the Bid Bond form on the following pages shall be executed. The sum of this bond shall be not less than ten percent (10%) of the total amount of the bid.

BID BOND

KNOW ALL MEN BY THESE PRESENTS:

That we _____ as principal and _____ as surety, are held and firmly bound unto the City of La Habra, California hereinafter referred to as "Owner", in the sum of _____ Dollars (\$ _____) to be paid to the said Owner, its successors and assigns for which payment well and truly to be made we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH that if the certain proposal of the above bounden for the construction of Street Improvements as specifically set forth in documents entitled:

**PARK LA HABRA MOBILE HOMES PARK AND VIEW PARK MOBILE
HOME ESTATES PARK STREET IMPROVEMENTS
CITY PROJECT NO. 3-R-17**

all in accordance with the specifications and drawings on file at the offices of the City Clerk of the City of La Habra, California and is not withdrawn within the period of sixty (60) days after the date set for the opening of bids unless otherwise required by law and notwithstanding the award of the Contract to another bidder and that if said proposal is accepted by the Owner through action of its legally constituted contracting authorities and if the above bounden his heirs, executors, administrators, successors and assigns shall duly enter into and execute a contract for such construction and shall execute and deliver the required Performance and Payment Bonds and proof of insurance coverage within ten (10) days (not including Saturdays, Sundays and Holidays) after the date of notification by and from the said Owner that the said contract is ready for execution, then this obligation shall become null and void; otherwise, it shall be and remain in full force and virtue.

IN WITNESS WHEREOF, we hereunto set hands and seal this _____

day of _____, 2021.

BIDDER

NOTE: The standard printed bond form of any bonding company acceptable to the Owner may be used in lieu of the foregoing approved sample bond form provided the security stipulations protecting the Owner are not in any way reduced by use of the Surety Company's printed standard form.

NON-COLLUSION AFFIDAVIT
FOR

**PARK LA HABRA MOBILE HOMES PARK AND VIEW PARK MOBILE
HOME ESTATES PARK STREET IMPROVEMENTS
CITY PROJECT NO. 3-R-17**

(TO BE EXECUTED BY EACH AWARDEE OF A PRINCIPAL CONTRACT)

STATE OF CALIFORNIA)
) SS.
)

_____, being first duly sworn,
deposes and says that he is _____
(sole owner, partner, president, secretary, etc.)

of _____

The party making the foregoing bid; that such bid is not made in the interest of or on behalf of any undisclosed person, partnership, company, association, organization or corporation; that such bid is genuine and not collusive or sham: that said bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, nor that anyone shall refrain from bidding; that said bidder has not in any manner directly or indirectly sought by agreement, communication or conference with anyone to fix the bid price of said bidder or of any other bidder, nor to fix any overhead, profit cost element of such bid price nor of that of any other bidder nor to secure any advantage against the public body awarding the contract or anyone interested in the proposed contract; that all statements contained in such bid are true; and, further, that said bidder has not directly or indirectly, submitted his bid price or any breakdown thereof, nor the contents thereof, nor divulged information or data relative thereto, nor paid and will not pay any fee in connection therewith to any corporation, partnership, company, association, organization, bid depository, nor to any member of agent thereof nor to any other individual except to such person or persons as have a partnership or other financial interest with said bidder in his general business.

Signed: _____

Title: _____

Subscribed and sworn to before me

This _____ day of _____, 2021

SEAL OF NOTARY PUBLIC

WORKER'S COMPENSATION CERTIFICATE

(AS REQUIRED BY SECTION 1861
OF THE CALIFORNIA LABOR CODE)

I am aware of the provisions of Section 3700 of the California Labor Code, which require every employer to be insured against liability for worker's compensation, or to undertake self-insurance in accordance with the provisions of said Code, and I will comply with such provisions before commencing the performance of the Work of this Contract.

Contractor _____

By _____

Title _____

Public Contract Code Section 10285.1 Statement

In conformance with Public Contract Code Section 10285.1 (Chapter 376, Stats. 1985), the bidder hereby declares under penalty of perjury under the laws of the State of California that the bidder **has ___, has not __** been convicted within the preceding three years of any offenses referred to in that section, including any charge of fraud, bribery, collusion, conspiracy, or any other act in violation of any state or Federal antitrust law in connection with the bidding upon, award of, or performance of, any public works contract, as defined in Public Contract Code Section 1101, with any public entity, as defined in Public Contract Code Section 1100, including the Regents of the University of California or the Trustees of the California State University. The term "bidder" is understood to include any partner, member, officer, director, responsible managing officer, or responsible managing employee thereof, as referred to in Section 10285.1.

Note: The bidder must place a check mark after "has" or "has not" in one of the blank spaces provided. The above Statement is part of the Proposal. Signing this Proposal on the signature portion thereof shall also constitute signature of this Statement. Bidders are cautioned that making a false certification may subject the certifier to criminal prosecution.

Public Contract Code Section 10162 Questionnaire

In conformance with Public Contract Code Section 10162, the Bidder shall complete, under penalty of perjury, the following questionnaire:

Has the bidder, any officer of the bidder, or any employee of the bidder who has a proprietary interest in the bidder, ever been disqualified, removed, or otherwise prevented from bidding on, or completing a federal, state, or local government project because of a violation of law or a safety regulation?

Yes _____ No _____

If the answer is yes, explain the circumstances in the following space.

Public Contract Code Section 10232 Statement

In conformance with Public Contract Code Section 10232, the Contractor, hereby states under penalty of perjury, that no more than one final unappealable finding of contempt of court by a federal court has been issued against the Contractor within the immediately preceding two year period because of the Contractor's failure to comply with an order of a federal court which orders the Contractor to comply with an order of the National Labor Relations Board.

Note: The above Statement and Questionnaire are part of the Proposal. Signing this Proposal on the signature portion thereof shall also constitute signature of this Statement and Questionnaire.

Bidders are cautioned that making a false certification may subject the certifier to criminal prosecution.

SECTION E
AGREEMENT

AGREEMENT

This Agreement is made and entered into this ____ day of _____, 2021 by and between **THE CITY OF LA HABRA**, hereinafter referred to as the “**CITY**” and _____ hereinafter referred to as the “**CONTRACTOR**”.

RECITALS

WHEREAS, the City requires CONSTRUCTION WORK: and,

WHEREAS, the Contractor is qualified and experienced to perform such work; and,

NOW, THEREFORE, **CITY** and **CONTRACTOR** for the considerations hereinafter set forth, mutually agree as follows:

ARTICLE I **SCOPE OF WORK; TERM**

1.1 General Scope of Work:

CONTRACTOR shall for the price bid, upon request from **CITY**, furnish at his /her own proper cost and expense all necessary labor, materials, equipment, methods, processes, implements, services, tools, supplies, transportation, utilities and all other items and facilities to perform the required work for the **PARK LA HABRA MOBILE HOMES PARK AND VIEW PARK MOBILE HOME ESTATES PARK STREET IMPROVEMENTS CITY PROJECT NO. 3-R-17** (hereinafter “The Project”). The project shall be performed in accordance with the contract documents consisting of the Proposal, the Bid Schedule as “Exhibit A”, the Agreement, the Faithful Performance Bond, the Payment Bond, the Non-Collusion Affidavit, the Standard Plans for the City of La Habra and the Standard Specifications for Public Works Construction, latest edition and supplements thereto, together with all additions, any modifications or interpretations of any said documents are hereby incorporated in and made part of this Agreement as fully as if set forth herein.

1.2 Term.

The term of this Agreement shall begin upon signing by both parties and continue until completion of the work and its final acceptance by the **CITY**; or, until such time as it is terminated pursuant to the provisions in Article V of this Agreement.

ARTICLE II **RESPONSIBILITIES OF CONTRACTOR**

2.1 Control and Payment of Subordinates.

CITY retains **CONTRACTOR** as an independent contractor and not an employee of the **CITY**. All personnel to be utilized by **CONTRACTOR** in the performance of this Agreement

shall at all times be under **CONTRACTOR'S** exclusive direction and control. **CONTRACTOR** shall pay all wages, salaries, and other amounts due such personnel in connection with their performance of the Project under this Agreement and as required by law. **CONTRACTOR** shall be responsible for all reports and obligations with respect to such personnel, including, but not limited to social security taxes, income tax withholding, unemployment insurance, and workers' compensation insurance.

2.2 Conformance to Applicable Requirements.

All work constructed by **CONTRACTOR** shall be subject to the inspection and approval of the **CITY**.

2.3 Standard of Care, Licenses.

CONTRACTOR shall perform the Work under this Agreement in a skillful and competent manner. **CONTRACTOR** shall be responsible to **CITY** for any errors in its performance of this Agreement. **CONTRACTOR** represents and warrants to **CITY** that it has all licenses, permits, qualifications and approvals of whatever nature that are legally required to practice and to perform the Project hereunder. **CONTRACTOR** further represents and warrants that it shall keep in effect all such licenses, permits, and other approvals during the term of this Agreement.

2.4 Project Representatives.

CONTRACTOR assigns _____ as its Project Representative who shall coordinate all phases of the Project. The Project Representative shall be available to **CITY** at all reasonable times. **CONTRACTOR** may appoint another person as Project Representative upon written notice to **CITY**. **THE CITY ENGINEER** shall act as **CITY'S** Project Representative for purposes of this Agreement.

2.5 Accounting Records.

CONTRACTOR shall maintain complete and accurate records with respect to costs and expenses incurred in the performance of this Project. All such records shall be clearly identifiable as being associated with this Project. **CONTRACTOR** shall allow an authorized representative of **CITY**, during normal business hours, to examine, audit, and make transcripts of copies of such records. **CONTRACTOR** shall allow **CITY** to inspect all work, data, documents, proceedings, and activities related to this Agreement for a period of three (3) years from the date of final payment (or completion of work) under this Agreement.

ARTICLE III COMPENSATION

3.1 Compensation.

Except as provided in this section, **CONTRACTOR** shall receive compensation for all Work completed under this Agreement at the rates set forth in the Bid Schedule attached hereto as “**EXHIBIT A**”. Total compensation shall not exceed bid amount without written approval of **CITY’S** Project Representative. [Extra work may be authorized as described below, and, if authorized, shall be compensated at the rates and manner set forth in this Agreement]. The **CITY MANAGER** may authorize extra work to fund unforeseen conditions up to the amount approved at the time of award by the City Council. Payment for additional work in excess of this amount requires prior City Council Authorization.

3.2 Payment of Compensation.

CONTRACTOR shall provide **CITY** an itemized monthly statement, which indicates work completed, to the Project by **CONTRACTOR** from the date of written notice to proceed, or the start of the subsequent billing periods, as appropriate, through the date of the statement. **CITY** shall make any payment due within forty-five (45) days after approval of the invoice by **CITY**; payment will be made for the approved amount of the invoice minus five (5) percent. The five (5) percent retained will be held until thirty-five (35) days after final completion and acceptance of the contract work.

3.3 Extra Work.

At any time during the term of this Agreement, **CITY** may request that **CONTRACTOR** perform Extra Work. As used herein, “Extra Work” means any work which is determined by **CITY** to be necessary for the proper completion of the Project, but which the parties did not reasonably anticipate would be necessary at the execution of this Agreement. **CONTRACTOR** shall not perform Extra Work until receiving prior written authorization from **CITY’S** Project Representative.

3.4 Amendment of Scope of Work.

CITY shall have the right to amend the Scope of Work within the Agreement by written notification to the **CONTRACTOR**. In such event, the compensation and time of performance shall be subject to renegotiations upon written demand of either party to the Agreement. Failure of the **CONTRACTOR** to secure **CITY’S** written authorization for extra or changed work shall constitute a waiver of any and all right to adjustment in the contract price or time due, whether by way of compensation, restitution, quantum merit, etc. for work done without the appropriate **CITY** authorization.

3.5 Notices.

The **CITY ENGINEER** or his designee shall be the representative of **CITY** for purposes of this Agreement and may issue all consents, approvals, directives and agreements on behalf of the **CITY**, called for by this Agreement, except as otherwise expressly provided in this

Agreement. _____ shall be the representative of **CONTRACTOR** for purposes of this Agreement and may issue all consents, approvals, directives and agreement on behalf of **CONTRACTOR**, called for by this Agreement, except as otherwise expressly provided in this Agreement.

All notices and written communications sent by one party to the other shall be personally delivered or sent by registered or certified U.S. Mail postage prepaid, return receipt requested to the following addresses indicated below:

IF TO CITY: Christopher L. Johansen, P.E.
City Engineer
City of La Habra
110 E. La Habra Blvd.
La Habra, CA 90631

TO CONTRACTOR: _____

The effective date of any notice or written communications sent by one party to the other shall be the date received if by personal service, or 48 hours after deposit in the U.S. Mail as reflected by the official U.S. postmark.

3.6 Reimbursement for Expenses

CONTRACTOR shall not be reimbursed for any expenses unless prior written authorization is obtained from **CITY**.

ARTICLE IV INSURANCE

4.1 Insurance Requirements.

The **CITY** reserves the right to modify these requirements, including limits, based on the nature of the risk, prior experience, insurer, coverage, or other special circumstances. If the existing policies do not meet the Insurance Requirements set forth herein, **CONTRACTOR** agrees to amend, supplement or endorse the policies to do so.

Without limiting the indemnity provisions of the Contract, the **CONTRACTOR** shall procure and maintain in full force and effect during the term of the Contract, the following policies of insurance.

4.2 Minimum Scope of Insurance.

- (a) **Commercial General Liability (CGL)** which affords coverage at least as broad as Insurance Services Office “occurrence” form CG 00 01, including products and completed operations, property damage, bodily injury, and personal & advertising injury with limits no less than \$2,000,000 per occurrence. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location or the general aggregate limit shall be twice the required occurrence limit.

Products-Completed Operations: CONTRACTOR shall procure and submit to **CITY** evidence of insurance for a period of at least ten (10) years from the time that all work under this Contract is completed.

- (b) **Automobile Liability Insurance** with coverage at least as broad as Insurance Services Office Form CA 0001 covering “Any Auto” (Symbol 1) with limit no less than \$2,000,000 each accident for bodily injury and property damage.
- (c) **Workers’ Compensation** as required by the State of California with statutory limits, and Employer’s Liability Insurance with a limit of not less than \$1,000,000 per accident for bodily injury or disease.
- (d) **Professional Liability** with limits of no less than \$2,000,000 each claim and \$3,000,000 in the aggregate. Covered Professional Services shall specifically include all work to be performed under the contract and delete any exclusions that may potentially affect the work to be performed (e.g., any exclusions relating to lead, asbestos, pollution, testing, underground storage tanks, laboratory analysis, soil work, etc.).
- (e) **Surety Bonds: CONTRACTOR** shall provide the following Surety Bonds:
 - (a) Bid Bond
 - (b) Performance Bond
 - (c) Payment Bond
 - (d) Maintenance Bond

The Payment Bond and the Performance Bond shall be in a sum equal to the contract price. If the Performance Bond provides for a one-year warranty a separate Maintenance Bond is not necessary. If the warranty period specified in the contract is for longer than one year a Maintenance Bond equal to 10% of the contract price is required. Bonds shall be duly executed by a responsible corporate surety, authorized to issue such bonds

in the State of California and secured through an authorized agent with an office in California.

If the **CONTRACTOR** maintains broader coverage and/or higher limits than the minimums shown above, the **CITY** requires and shall be entitled to the broader coverage and/or higher limits maintained by the **CONTRACTOR**.

4.3 Endorsements.

Insurance policies shall not be in compliance if they include any limiting provision or endorsement that has not been submitted to the **CITY** for approval. The insurance policies shall contain or be endorsed to contain, the following provisions:

(a) Commercial General Liability & CONTRACTORS Pollution Liability

- (1) **Additional Insured:** The **CITY**, its elected officials, officers, employees, volunteers, boards, agents and representatives shall be additional insureds with regard to liability and defense of suits or claims arising out of the work or operations performed by or on behalf of the **CONTRACTOR** including materials, parts or equipment furnished in connection with such work or operations.

Additional Insured Endorsements shall not:

1. Be limited to "Ongoing Operations"
2. Exclude "Contractual Liability"
3. Restrict coverage to the "Sole" liability of **CONTRACTOR**
4. Exclude "Third-Party-Over Actions"
5. Contain any other exclusion contrary to the Contract

Additional Insured Endorsements shall be at least as broad as ISO Form(s) CG 20 10 11 85; or CG 2010 and CG 20 37.

- (2) **Primary Insurance:** This insurance shall be primary and any other insurance whether primary, excess, umbrella or contingent insurance, including deductible, or self-insurance available to the insureds added by endorsement shall be in excess of and shall not contribute with this insurance. Coverage shall be at least as broad as ISO CG 20 01 04 13.

(b) Auto Liability

- (1) **Additional Insured:** The **CITY**, its elected officials, officers, employees, volunteers, boards, agents and representatives shall be additional insureds with regard to liability and defense of suits or claims arising out of the work or operations performed by or on behalf of the **CONTRACTOR**.

- (2) **Primary Insurance:** This insurance shall be primary and any other insurance whether primary, excess, umbrella or contingent insurance, including deductible, or self-insurance available to the insureds added by endorsement shall be in excess of and shall not contribute with this insurance.

(c) Workers' Compensation

- (1) **Waiver of Subrogation:** A waiver of subrogation stating that the insurer waives all rights of subrogation against the indemnified parties.

4.4 Insurance Obligations of Contractor.

The Insurance obligations under this agreement shall be: (1) all the Insurance coverage and/or limits carried by or available to the **CONTRACTOR**; or (2) the minimum Insurance coverage requirements and/or limits shown in this agreement; whichever is greater. Any insurance proceeds in excess of or broader than the minimum required coverage and/or minimum required limits, which are applicable to a given loss, shall be available to the **CITY**. No representation is made that the minimum Insurance requirements of this agreement are sufficient to cover the obligations of the **CONTRACTOR** under this agreement.

4.5 Notice of Cancellation.

Required insurance policies shall not be cancelled or the coverage reduced until a thirty (30) day written notice of cancellation has been served upon the **CITY** except ten (10) days shall be allowed for non-payment of premium.

4.6 Waiver of Subrogation.

Required insurance coverages shall not prohibit **CONTRACTOR** from waiving the right of subrogation prior to a loss. **CONTRACTOR** shall waive all rights of subrogation against the indemnified parties and Policies shall contain or be endorsed to contain such a provision. This provision applies regardless of whether the **CITY** has received a waiver of subrogation endorsement from the insurer.

4.7 Evidence of Insurance.

All policies, endorsements, certificates, and/or binders shall be subject to approval by the **CITY** as to form and content. These requirements are subject to amendment or waiver only if so approved in writing by the **CITY**. The **CITY** reserves the right to require complete, certified copies of all required insurance policies, including endorsements required by these specifications, at any time.

The certificates and endorsements for each insurance policy shall be signed by a person authorized by that insurer to bind coverage on its behalf. At least fifteen (15 days) prior to the expiration of any such policy, evidence of insurance showing that such insurance coverage has been renewed or extended shall be filed with the **CITY**. If such coverage is cancelled or reduced, **CONTRACTOR** shall, within ten (10) days after receipt of written notice of such cancellation or reduction of coverage, file with the **CITY** evidence of insurance showing that the required insurance has been reinstated or has been provided through another insurance company or companies.

4.8 Deductible or Self-Insured Retention.

Any deductible or self-insured retention must be approved in writing by the **CITY** and shall protect the indemnified parties in the same manner and to the same extent as they would have been protected had the policy or policies not contained a deductible or self-insured retention. The **CITY** may require the **CONTRACTOR** to purchase coverage with a lower retention or provide proof of ability to pay losses and related investigations, claim administration and defense expenses within the retention.

4.9 Contractual Liability.

The coverage provided shall apply to the obligations assumed by the **CONTRACTOR** under the indemnity provisions of this contract.

4.10 Failure to Maintain Coverage.

CONTRACTOR agrees to suspend and cease all operations hereunder during such period of time as the required insurance coverage is not in effect and evidence of insurance has not been furnished to the **CITY**. The **CITY** shall have the right to withhold any payment due until **CONTRACTOR** has fully complied with the insurance provisions of this Contract.

In the event that the **CONTRACTOR'S** operations are suspended for failure to maintain required insurance coverage, the **CONTRACTOR** shall not be entitled to an extension of time for completion of the Work because of production lost during suspension.

4.11 Acceptability of Insurers.

Each such policy shall be from a company or companies with a current A.M. Best's rating of no less than A:VII and authorized to do business in the State of California, or otherwise allowed to place insurance through surplus line brokers under applicable provisions of the California Insurance Code or any federal law. Any other rating must be approved in writing by the **CITY**.

4.12 Claims Made Policies.

If coverage, including for Construction Defect claims, is written on a claims-made basis, the retroactive date on such insurance and all subsequent insurance shall coincide or precede the effective date of the initial **CONTRACTOR'S** Contract with the **CITY** and continuous coverage shall be maintained or an extended reporting period shall be exercised for a period of at least ten (10) years from termination or expiration of this Contract.

4.13 Insurance for Subcontractors.

CONTRACTOR shall be responsible for causing Subcontractors to purchase the same types and limits of insurance in compliance with the terms of this Contract/Agreement, including adding the **CITY** as an Additional Insured, providing Primary and Non-Contributory coverage and Waiver of Subrogation to the Subcontractor's policies. The Commercial General Liability Additional Insured Endorsement shall be on a form at least as broad as CG 20 38 04 13.

4.14 Additional Insurance.

Further, **CONTRACTOR** shall obtain any additional kinds and amounts of insurance which, in its own judgment, may be necessary for the proper protection of any of its officers', employees', or authorized sub-contractors' own actions during the performance of this Agreement.

4.15 Notice of Policy Changes.

Each insurance policy required by this clause shall be endorsed to state that coverage shall not be suspended, voided, canceled, reduced in coverage or in limits except after thirty (30) days prior written notice by certified mail, return receipt requested, has been given to **CITY**.

Unless **CONTRACTOR'S** insurer agrees to provide (30) days written notice of any changes or modifications to any policies as required by this clause, **CONTRACTOR** shall provide copies of all required policies or certificates of insurance as may be requested by **CITY** to establish that such policies have not been modified or reduced in coverage or in limits.

ARTICLE V TERMINATION AND INDEMNIFICATION

5.1 Notice of Termination.

CITY may terminate the whole or any part of this Agreement at any time and without cause by giving seven (7) days written notice to **CONTRACTOR** of such termination, and specifying the effective date thereof. **CONTRACTOR** shall discontinue all services affected by such termination within seven (7) days of receipt of such notice, unless otherwise instructed by **CITY** in writing. **CONTRACTOR** may not terminate this Agreement except for cause.

5.1.1 Termination Without Cause.

If **CITY** terminates this Agreement without cause, **CITY** shall pay **CONTRACTOR** for services performed through the date of termination, upon receipt of written documentation of said services. Such payment shall include a pro-rated amount of profit, if applicable, but no amount shall be paid for anticipated profit on unperformed services.

5.1.2 Termination for Cause.

Should **CONTRACTOR** default in the performance of any covenant, condition, or agreement contained in this Agreement and the default is not cured within thirty (30) days after written notice of the default is served on **CONTRACTOR** by **CITY**, then **CITY**, in addition to any other remedies at law or equity, may terminate this Agreement. **CONTRACTOR** shall be compensated for services, which have been completed and accepted by **CITY**. **CONTRACTOR** shall be liable to **CITY** for any reasonable additional costs incurred to correct or cure unsatisfactory work performed by **CONTRACTOR** which, at **CITY's** discretion, must be revised, in part or in whole, to complete the Project.

5.2 Procurement of Similar Services.

In the event this Agreement is terminated as provided by this Article, with or without cause, in whole or in part, **CITY** may procure, any and all services as may be necessary to complete the Project.

5.3 Work Product.

Upon termination of this Agreement, **CITY** may require **CONTRACTOR** to provide all finished or unfinished documents, data, studies, drawings, reports, etc., prepared by **CONTRACTOR** in performance of this Agreement.

5.4 Indemnification and Hold Harmless.

These Indemnification provisions are independent of and shall not in any way be limited by the Insurance Requirements of this Agreement. CITY approval of the Insurance contracts required by this Agreement does not in any way relieve the CONTRACTOR from liability under this section.

Except as to the sole or active negligence or willful misconduct of the **CITY** and notwithstanding the existence of insurance coverage required of **CONTRACTOR** pursuant to this contract, **CONTRACTOR** shall save, keep defend, indemnify, hold free and harmless **CITY**, its officers, officials, employees, agents and volunteers from and against any and all damages to property or injuries to or death of any person or persons, and shall defend, indemnify, save and hold harmless **CITY**, its officers, officials, employees, agents and volunteers from any and all claims, demands, suits, actions or proceedings of any kind or nature, including, but not by

way of limitation, all civil claims, workers' compensation claims, and all other claims resulting from or arising out of the acts, errors or omissions of **CONTRACTOR**, its employees and/or authorized subcontractors, whether intentional or negligent, in the performance of this Agreement.

CITY will notify **CONTRACTOR** of the receipt of any third party claim related to this contract within 30 business days of receipt. The **CITY** is entitled to recover its reasonable costs incurred in providing the notification. (Public Contracts Code Section 9201)

ARTICLE VI GENERAL PROVISIONS

6.1 Entire Agreement.

This Agreement contains the entire Agreement of the parties with respect to the subject matter hereof, and supersedes all prior negotiations, understandings, or agreement whether verbal or written, concerning the same subject matter. Only by writing signed by both parties may modify this Agreement.

6.2 Successors and Assigns.

This Agreement shall be binding on the successors and assigns of the parties. This Agreement may not be sold, transferred or assigned by either party, or by operation of law, to any other person or persons or business entity, without the other party's written permission. Any such sale, transfer or assignment, or attempted sale, transfer or assignment without written permission, may be deemed by the other party to constitute a voluntary termination of this Agreement and this Agreement shall thereafter be deemed terminated and void.

6.3 Subcontracts.

6.4 Equal Opportunity Employment.

CONTRACTOR represents that it is an equal opportunity employer and shall not discriminate either directly or indirectly against an employee or applicant for employment with **CONTRACTOR** on the basis of race, color, religion, national origin, ancestry, sexual preference, sex or age. **CONTRACTOR** shall also take affirmative steps to ensure that applicants are employed and employees are treated during employment without regard to race, color, religion, national origin, ancestry, sexual preference, sex, age, or other prohibited grounds.

6.5 Attorney's Fees.

If either party commences a legal action against the other party arising out of or in connection with this Agreement, the prevailing party in such litigation shall be entitled to have and recover reasonable attorney's fees and costs of suits.

6.6 Governing Law.

This Agreement shall be governed by and construed with the laws of the State of California. Any Action to enforce the terms of this Agreement or for the breach thereof shall be brought and tried in the County of Orange.

6.7 Time of Essence.

Time is of the essence for each and every provision of this Agreement.

6.8 Right to Employ Other Contractors.

CITY reserves the right to employ other contractors in connection with this Project.

6.9 Covenant Against Contingent Fees.

The **CONTRACTOR** warrants that he has not employed or retained any company or person, other than a bona fide employee working with the **CONTRACTOR**, to solicit or secure this Agreement, and that he has not paid or agreed to pay any company or person, other than a bona fide employee, any fee, commission, percentage, brokerage fee, gift, or any other consideration, contingent upon or resulting from the award or making this Agreement. For breach or violation of this warranty, the **CITY** shall have the right to annul this Agreement without liability, or, in its discretion to deduct from the Agreement the price or consideration, or otherwise recover, the full amount of such fee, commission, percentage, brokerage fee, gift, or contingent fee.

6.10 Conflict of Interest.

CONTRACTOR covenants that it presently has no interest and shall not acquire any interest, direct or indirect, which would conflict in any manner or degree with the performance of its services hereunder. **CONTRACTOR** further covenants that in the performance of this Agreement, no person having any such conflict of interest shall be employed by **CONTRACTOR**.

6.11 Statement of Economic Interest.

If **CITY** determines **CONTRACTOR** comes within the definition of **CONTRACTOR** under the Political Reform Act (Government Code §87100 et. seq.), **CONTRACTOR** shall complete and file and shall require any other person doing work under this Agreement, to complete and file a "Statement of Economic Interest" with the City Clerk of the **CITY** disclosing **CONTRACTOR** and/or such other person's financial interests.

6.12 No Waiver of Breach; Time.

No waiver of any provision of this Agreement shall be effective unless in writing and signed by a duly authorized representative of the party against whom enforcement of a waiver is sought referring expressly to this Paragraph. The waiver of any right or remedy in respect to any occurrence or event shall not be deemed a waiver of any right or remedy in respect to any other occurrence or event, nor shall any waiver constitute a continuing waiver.

6.13 Third Party Beneficiaries.

Nothing contained in this Agreement shall be construed to create and the parties do not intend to create any rights in third parties.

6.14 Taxes.

CONTRACTOR agrees to file tax returns and pay all applicable taxes on amounts paid pursuant to this Agreement and shall be solely liable and responsible to pay such taxes and other obligations, including, but not limited to, state and federal income and FICA taxes. **CONTRACTOR** agrees to indemnify and hold the **CITY** harmless from any liability which it may incur to the United States or to the State of California as a consequence of **CONTRACTOR'S** failure to pay, when due, all such taxes and obligations.

6.15 Compliance With Law.

CONTRACTOR shall comply with applicable federal, state and local laws, rules and regulations affecting the **CONTRACTOR** and his/her work hereunder.

6.16 Title to Documents.

Title to all plans, specifications, maps, estimates, reports, manuscripts, drawings, descriptions and other final work products that may be compiled by the **CONTRACTOR** under the Agreement shall be vested in the **CITY**, none of which shall be used in any manner whatsoever, by any person, firm, corporation, or agency without the expressed written consent of the **CITY**. Basic survey notes and sketches, charts, computations, and other data prepared or obtained under the Agreement shall be made available, upon request, to the **CITY** without restriction or limitations on their use. **CONTRACTOR** may retain copies of the above described information but agrees not to disclose or discuss any information gathered, discussed or generated in any way through this Agreement without the written permission of **CITY** during the term of this Agreement or until ninety (90) days after receipt of final payment from **CITY**.

6.17 Validity.

The validity in whole or in part of any provision of this Agreement shall not void or affect the validity of any other provisions of this Agreement.

6.18 Headings.

Section and subsection headings are not to be considered part of this Agreement, are included solely for convenience, and are not intended to modify or explain or to be a full or accurate description of the content thereof.

6.19 Counterparts.

This Agreement may be executed in one or more counterparts by the parties hereto. All counterparts shall be construed together and shall constitute one agreement.

6.20 Corporate Authority.

The persons executing this Agreement on behalf of the Parties hereto warrant that they are duly authorized to execute this Agreement on behalf of said Parties and that by doing so, the Parties hereto are formally bound to the provision of this Agreement.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed the date and year first above written.

CITY OF LA HABRA

CONTRACTOR

JIM SADRO
CITY MANAGER

Name: _____

Title: _____

ATTEST:

LAURIE SWINDELL, CMC
CITY CLERK

COUNTER SIGNED:

RICHARD D. JONES
CITY ATTORNEY

FAITHFUL PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS:

That we, _____
_____ hereinafter referred to as
“Contractor”, as principal, and _____
_____ as surety, are held and firmly
bound unto City of La Habra in the sum of _____

_____ Lawful money of the United States of America for the payment of which sum well and truly to be made we bind ourselves jointly and severally, firmly by these presents.

The condition of the foregoing obligation is such that WHEREAS, said Contract has been awarded and is about to enter into the annexed contract with City of La Habra for construction of Street Improvements as specifically set forth in the documents entitled:

**PARK LA HABRA MOBILE HOMES PARK AND VIEW PARK MOBILE
HOME ESTATES PARK STREET IMPROVEMENTS
CITY PROJECT NO. 3-R-17**

and is required under the terms of the Contract to give this bond in connection with the execution of said contract.

NOW, THEREFORE, if the said Contractor shall well and truly do and perform all of the covenants and obligations of said contract on his part to be done and performed at the times and in the manner specified herein, then this obligation shall be null and void, otherwise it shall be and remain in full force and effect.

PROVIDED, that any alterations in the work to be done or the materials to be furnished which may be made pursuant to the terms of said Contract shall not in any way release either the Contractor or the surety thereunder nor shall any extensions of time granted under the provisions of said Contract release either the Contractor or the surety, and notice of such alterations or extensions of the Contract is hereby waived by the surety.

WITNESS our hands this _____ day of _____, 2021.

Contractor

BY: _____

(Seal)

Title

APPROVED:

Surety

BY: _____

(Seal)

Mailing Address of Surety:

Telephone Number of Surety

PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS:

That we, _____
_____ Hereinafter referred to as

“Contractor”, as principal, and _____
_____ as surety, are held and firmly

bound unto the City of La Habra, California in the sum of

Lawful money of the United States of America for the payment of which sum well and truly to be made we bind ourselves jointly and severally, firmly by these presents.

The condition of the above obligation is such that:

WHEREAS, said Contractor has been awarded and is about to enter into the annexed Contract with said City of La Habra for the construction of Street Improvements as specifically set forth in documents entitled:

**PARK LA HABRA MOBILE HOMES PARK AND VIEW PARK MOBILE
HOME ESTATES PARK STREET IMPROVEMENTS
CITY PROJECT NO. 3-R-17**

And is required under the terms of the Contract to give this bond in connection with execution of said contract.

NOW, THEREFORE, if the said Contractor or any of his subcontractors fails to pay any of the persons named in Section 9100 of the Civil Code of the State of California or amounts due under the Unemployment Insurance Code with respect to work or labor performed by any such person for or about the performance of the aforementioned

Contract, said surety will pay the same in an amount not exceeding the sum specified in this bond and in case suit is brought upon this bond a reasonable attorney’s fee to be fixed by the Court. This bond shall inure to the benefit of any and all persons named in Section 9100 of the Civil Code of the State of California so as to give a right of action to such persons or their assigns in

any suit brought upon this bond. This bond shall be subject to and include all of the provisions of Title 3 of Part 6 of Division 4 of the Civil Code of California relating to Payment Bond for Public Works, including but not confined to, Civil Code Section 9550-9566, inclusive.

PROVIDED, that any alterations in the work to be done or the material to be furnished which may be made pursuant to the terms of said Contract, shall not in any way release either the Contractor or the surety thereunder nor shall any extensions of time granted under the provisions of said contract release either the Contractor or the surety, and notice of such alterations or extensions of the Contract is hereby waived by the surety.

WITNESS our hands this _____ day of _____, 2021.

Contractor

BY: _____

(Seal)

Title

APPROVED:

Surety

BY: _____

(Seal)

Mailing Address of Surety:

Telephone Number of Surety

CERTIFICATION OF COMPLIANCE

AFFIRMATIVE ACTION REQUIREMENTS

EQUAL EMPLOYMENT OPPORTUNITY

For

**PARK LA HABRA MOBILE HOMES PARK AND VIEW PARK MOBILE
HOME ESTATES PARK STREET IMPROVEMENTS
CITY PROJECT NO. 3-R-17**

_____ Certifies that:
(Contractor)

It has adopted and approved affirmative action plan in compliance with Title VII of the Civil Rights Act and the Equal Employment Opportunity Act of 1972 and agrees to submit a copy of that plan to the Assistant to the City Manager/Personnel of the City of La Habra for inspection prior to the award of contract.

Signed: _____

By: _____

Title: _____

Date: _____

APPENDIX “A”

PROJECT PLANS



UTILITY CONTACTS		
UTILITY	CONTACT	NUMBER
CALIFORNIA DOMESTIC WATER COMPANY	CHE VENEGAS	562-947-3811
COMCAST CABLE COMPANY		800-501-5738
CRIMSON PIPELINE	APRIL HARVEY	562-285-4195
TORRANCE LOGISTICS COMPANY	TERI A. SHINDE	310-212-1794
KINDER MORGAN ENERGY	DON QUINN	714-560-4400
LA HABRA HEIGHTS WATER COMPANY	MAIN CONTACT	562-697-6769
METROPOLITAN WATER DISTRICT	MATT PARRY	714-577-5084
ORANGE COUNTY SANITATION DISTRICT	DANIEL LEE	714-593-7176
PLAINS ALL AMERICAN PIPELINE	JOE MATTEO	562-728-2368
SO CAL EDISON	JIMMY PARKIN	714-578-3434
SOUTHERN CAL GAS	GABRIEL DAVALOS	213-231-7688
SHELL PIPE COMPANY	CLARINDA MALDONADO	310-816-2063
SUBURBAN WATER SYSTEM	TOM MEDINA	562-755-5015
SPECTRUM	DOMINIC HERNANDEZ	714-287-9385
FRONTIER COMMUNICATIONS	ARIEL FATALA	714-375-6717
WESCON C/O VINTAGE PRODUCTION	EMILIO RODRIGUEZ	562-665-9255
UNDERGROUND SERVICE ALERT	811	800-422-4133
CR&R (WASTE HAULER)		714-372-8209
AT&T	YVETTE GAROFANO	714-618-9146
CHEVRON USA	DAVE ZERLER	310-669-4014
CITY OF LA HABRA SEWER & WATER DEPT.	BRIAN JONES	562-383-4170
MOBIL OIL	RUTH CRONIN - FRUITT	310-212-1761
UNOCAL	ARNA ADAMS	213-864-5663
ELLER MEDIA		714-289-2018

CONSTRUCTION NOTES

- ① SAW-CUT & REMOVE FULL DEPTH STRUCTURAL SECTION TO A DEPTH OF 8". FURNISH & CONSTRUCT 2" AC TYPE (C2-PG 64-10) OVER 6" AC TYPE (B-PG 64-10).
- ② SAW-CUT & REMOVE FULL DEPTH STRUCTURAL SECTION TO A DEPTH OF 14". FURNISH & CONSTRUCT 2" AC TYPE (C2-PG 64-10) OVER 6" AC TYPE (B-PG 64-10) OVER 6" COMPACTED CMB.
- ③ REMOVE EXISTING PCC & AC PAVEMENT, FURNISH & CONSTRUCT 4" THICK PCC PAVEMENT OVER NATIVE.
- ④ FURNISH & CONSTRUCT 2' WIDE PCC LONGITUDINAL GUTTER OVER 6" COMPACTED CMB PER DETAIL 
- ⑤ FURNISH & CONSTRUCT 15' X 15' PCC LOCAL DEPRESSION PER DETAIL.  
- ⑥ FURNISH & CONSTRUCT ALHAMBRA FOUNDRY A-2446, 6" WIDE TRENCH DRAIN OR APPROVED EQUAL WITH 4" STEEL CONNECTOR PIPE. LENGTH SHOWN ON PLAN.
- ⑦ REMOVE EXISTING PCC SIDEWALK, FURNISH & CONSTRUCT SPPWC STD. PLAN 151-2 PARKWAY DRAIN, S=18" OVER COMPACTED NATIVE.
- ⑧ REMOVE EXISTING AND CONSTRUCT NEW 2.5' WIDE, 0.25' HIGH AC SPEED HUMP. SEE DETAIL SHEET 2.
- ⑨ ADJUST WATER VALVE TO GRADE.
- ⑩ FURNISH & CONSTRUCT 1.7' WIDE CURB AND GUTTER OVER 6" COMPACTED CMB PER DETAIL. 
- ⑪ SAW CUT/COLD MILL EXISTING AC PAVEMENT 3" THICK. FURNISH & CONSTRUCT 2" AC TYPE (C2-PG 64-10) OVER 1" AC TYPE (B-PG 64-10)
- ⑫ SAWCUT AND REMOVE EXISTING REINFORCED PCC PAVEMENT, FURNISH & CONSTRUCT 6" THICK PCC PAVEMENT OVER NATIVE.
- ⑬ SAW CUT & REMOVE FULL STRUCTURAL SECTION TO A DEPTH OF 12", FURNISH & INSTALL 12" AC (C2 PG 64-10) ON COMPACTED NATIVE/BASE. 2' EACH SIDE.
- ⑭ CONSTRUCT NEW 2.5' WIDE, 0.25' HIGH AC SPEED HUMP. DETAIL SHEET 2.
- ⑮ REMOVE FULL DEPTH STRUCTURAL SECTION TO A DEPTH OF 14".

NOTICE: ACTUAL EXISTING SITE CONDITIONS MAY DIFFER FROM THOSE SHOWN. THE CONTRACTOR SHALL VERIFY SITE CONDITIONS PRIOR TO BIDDING. LOCATION OF EXISTING AND ABANDONED UTILITIES IS UNKNOWN OR FROM RECORD DATA ONLY. THE CONTRACTOR SHALL VERIFY TO HIS SATISFACTION LOCATIONS OF ALL UTILITIES PRIOR TO BIDDING AND CONSTRUCTION. CONTRACTOR SHALL MAINTAIN AS-BUILT RECORDS OF EXISTING UTILITIES AND INFORM THE ENGINEER IN CASE OF DISCREPANCIES.

THE 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. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE SAFETY OF ALL PERSONS ON THE PROJECT, AND THE PROTECTION OF THE PROPERTY AND PROPERTY, THAT THIS REQUIREMENT SHALL BE CONTINUOUSLY AND NOT TO BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY, AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY LIABILITY, REAL OR CONSTRUCTIVE, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

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

UNDERGROUND SERVICE ALERT (USA)

IT'S THE LAW!
DIAL BEFORE
YOU DIG!

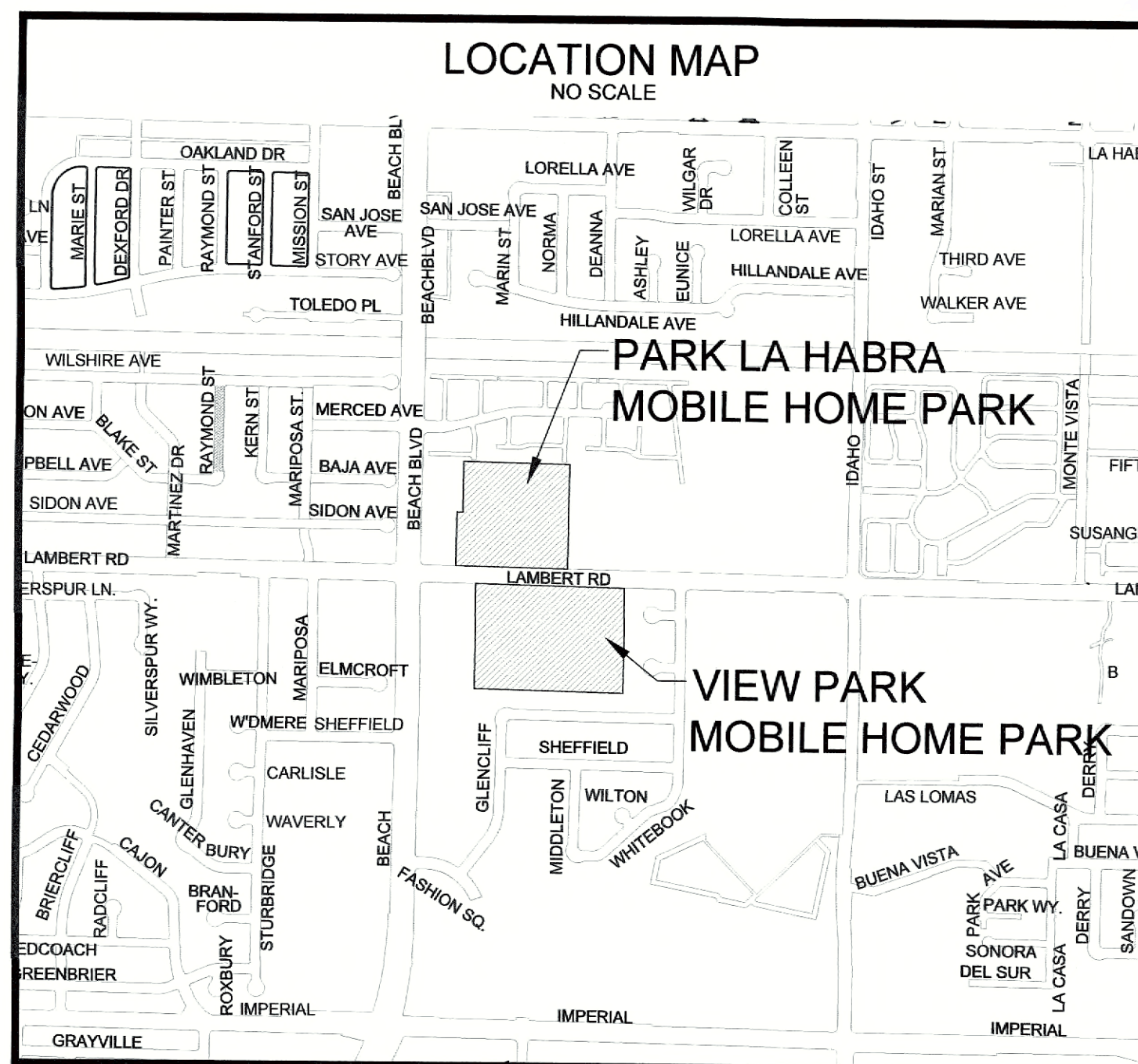


CALL AT LEAST
TWO WORKING DAYS
BEFORE YOU DIG



Know what's below.
Call before you dig.

CITY OF LA HABRA
PUBLIC WORKS DEPARTMENT - ENGINEERING DIVISION
PARK LA HABRA MOBILE HOME PARK AND
VIEW PARK MOBILE HOME ESTATES PARK
STREET IMPROVEMENTS
PROJECT NO. 3-R-17



STRIPING NOTES

- (20) PAINT 12 INCH LIMIT LINE PER CALTRANS STD. A24E
- (21) PAINT "STOP" PAVEMENT MARKING WORD PER CALTRANS STD. A24D
- (22) PAINT 4 INCH WIDE, WHITE (2 COATS) PARKING STRIPE PER SPPWC STD PLAN 180-0
- (23) PAINT SPEED HUMP WHITE (2 COATS)
- (24) PAINT ACCESSIBILITY SYMBOL PER SPPWC STD PLAN 171-0
- (25) PAINT 4 INCH WIDE, BLUE (2 COATS) PARKING STRIPE & PATH OF TRAVEL PER SPPWC STD PLAN 180-0
- (26) PAINT WHITE "NO PARKING" PAVEMENT MARKING WORDS
- (27) PAINT DOUBLE YELLOW PER SPPWC STD. 170-0, DETAIL 22.
- (28) FURNISH & INSTALL TELESPOUT POST & 24" STOP SIGN (R1-1). (MINIMUM 7' FROM GROUND)
- (29) REMOVE EXISTING SIGN & POST
- (30) REMOVE EXISTING SIGN.
- (31) FURNISH AND INSTALL BLUE REFLECTIVE PAVEMENT MARKER.
- (32) FURNISH & INSTALL 24" RIGHT TURN (W1-1R)
- (33) FURNISH & INSTALL 24" RIGHT TURN (W1-1L)
- (34) FURNISH & INSTALL 12" X 18" NO PARKING - FIRE LANE SIGN
- (35) REMOVE EXISTING, FURNISH & INSTALL NEW DETECTABLE WARNING TRUNCATED DOME (YELLOW) PER SPPWC STD. 111-5.
- (36) FURNISH & INSTALL DISABLED-ACCESSIBLE PARKING SIGN AND POST PER SPPWC STD. 180-0.



PLANS PREPARED BY:

ONWARD ENGINEERING

300 S. HARBOR BLVD., SUITE 814

ANAHEIM, CA 92805

F: (714) 808-1270

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE APWA STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK), CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS & SPECIFICATIONS, CITY OF LA HABRA STANDARD PLANS, AND PROJECT SPECIAL PROVISIONS, EACH OF THE MOST RECENT DATE.
2. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND NOTIFY THE CITY OF LA HABRA AT LEAST TWO WORKING DAYS (48 HOURS) PRIOR TO STARTING CONSTRUCTION.
3. TRAFFIC CONTROL AND SAFETY DEVICES SHALL BE INSTALLED PER THE STATE OF CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD), AND TO THE SATISFACTION OF THE CITY INSPECTOR.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR AND COORDINATE THE RELOCATION OF ANY EXISTING UTILITIES DEEMED NECESSARY BY THE PROPOSED IMPROVEMENTS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL EXISTING UTILITIES. ANY DAMAGE TO SUCH FACILITIES CAUSED BY HIS WORK SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
6. THE CONTRACTOR SHALL MAINTAIN ADJACENT STREETS AND ALLEYS IN A NEAT, CLEAN, DUST FREE AND SANITARY CONDITION TO THE SATISFACTION OF THE CITY'S INSPECTOR. THE ADJACENT STREETS AND ALLEYS SHALL BE KEPT CLEAN OF DEBRIS, WITH DUST AND OTHER NUISANCES BEING CONTROLLED AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CLEAN UP ON ADJACENT STREETS AND ALLEYS AFFECTED BY HIS CONSTRUCTION. STOCKPILING OF MATERIALS WITHIN THE PUBLIC RIGHT-OF-WAY IS NOT ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY INSPECTOR.
7. NEW CONCRETE SHALL MATCH EXISTING CONCRETE IN COLOR, FINISH, AND TEXTURE, TO THE APPROVAL OF THE ENGINEER.
8. CONTRACTOR SHALL OBTAIN ALL REQUIRED O.S.H.A. PERMITS PRIOR TO CONSTRUCTION OF UNDERGROUND FACILITIES.
9. ACCESS RAMPS, DRIVEWAY APRONS, CURBS, OR GUTTERS DISTURBED BY CONSTRUCTION SHALL BE REPLACED.
10. ALL SAWCUTS SHALL BE DONE BY THE WET-CUT METHOD, UNLESS OTHERWISE APPROVED BY THE ENGINEER, AND ALL SLURRY SHALL BE VACUUM REMOVED.
11. THE CONTRACTOR SHALL UTILIZE BEST MANAGEMENT PRACTICES FOR THE CONTROL OF EROSION AND RUNOFF, AND PROTECTION OF EXISTING STORM DRAIN FACILITIES.
12. PLACEMENT AND SCHEDULING OF PAVEMENT MARKINGS AND STRIPING SHOULD BE DETERMINED BY THE ENGINEER.
13. THE CONTRACTOR SHALL NOT ORDER OR PLACE ANY PORTLAND CEMENT CONCRETE OR ASPHALT CONCRETE PAVING UNTIL THE FORMS AND SUBGRADE AND/OR AGGREGATE BASE HAVE BEEN INSPECTED AND APPROVED BY THE CITY INSPECTOR.
14. STRICT ADHERENCE TO DUST CONTROL REQUIREMENTS SHALL BE ENFORCED AND ALL DUST SHALL BE CONTROLLED BY WATERING UNLESS OTHERWISE APPROVED BY THE ENGINEER.
15. PRIOR TO TAKING ANY WATER FROM A FIRE HYDRANT, THE CONTRACTOR SHALL MAKE ARRANGEMENTS TO OBTAIN A FIRE HYDRANT METER.
16. ALL SURVEY MONUMENTS SHALL BE PROTECTED AND PERPETUATED IN PLACE. ANY DISTURBED OR COVERED MONUMENTS SHALL BE RESET BY A QUALIFIED REGISTERED CIVIL ENGINEER OR LICENSED LAND SURVEYOR.
17. ANY CONTRACTOR PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE THEMSELVES WITH THE WORK SITE AND SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY OR INDIRECTLY FROM THEIR OPERATION WHETHER OR NOT SUCH FACILITIES ARE SHOWN ON THESE PLANS.
18. CONTRACTOR SHALL COORDINATE TRASH PICK-UPS DURING CONSTRUCTION.
19. CONTRACTOR IS ADVISED THAT PAVEMENT FABRIC AND SOIL WITH HIGH ARSENIC LEVELS MAY BE ENCOUNTERED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF FABRIC AND SOIL WITH HIGH ARSENIC LEVELS. NO ADDITIONAL REIMBURSEMENT WILL BE PAID FOR REMOVAL OF FABRIC AND SOIL WITH HIGH ARSENIC LEVELS. EXPOSED FABRIC SHALL BE REMOVED PRIOR TO PAVING.

STORMWATER PERMIT (NPDES REQUIREMENTS) NOTES:

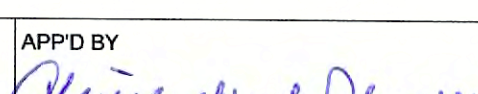
1. SEDIMENT FROM AREAS DISTURBED BY CONSTRUCTION SHALL BE RETAINED ON SITE USING STRUCTURAL CONTROLS AS REQUIRED BY THE STATEWIDE GENERAL CONSTRUCTION STORMWATER PERMIT.
2. STOCKPILES OF SOIL SHALL BE PROPERLY CONTAINED TO ELIMINATE OR REDUCE SEDIMENT TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES OR ADJACENT PROPERTIES VIA RUNOFF, VEHICLE TRACKING, OR WIND AS REQUIRED BY THE STATEWIDE GENERAL CONSTRUCTION STORMWATER PERMIT.
3. APPROPRIATE BMPs FOR CONSTRUCTION-RELATED MATERIALS, WASTES, SPILLS OR RESIDUES SHALL BE IMPLEMENTED TO ELIMINATE OR REDUCE TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES, OR ADJOINING PROPERTIES BY WIND OR RUNOFF AS REQUIRED BY THE STATEWIDE GENERAL CONSTRUCTION STORMWATER PERMIT.
4. RUNOFF FROM EQUIPMENT AND VEHICLE WASHING SHALL BE CONTAINED AT CONSTRUCTION SITES AND MUST NOT BE DISCHARGED TO RECEIVING WATERS OR THE LOCAL STORM DRAIN SYSTEM.
5. ALL PERSONNEL FROM THE CONSTRUCTION CONTRACTORS AND SUBCONTRACTOR'S PERSONNEL ARE TO BE MADE AWARE OF THE REQUIRED BEST MANAGEMENT PRACTICES AND GOOD HOUSEKEEPING MEASURES FOR THE PROJECT SITE AND ANY ASSOCIATED CONSTRUCTION STAGING AREAS.
6. AT THE END OF EACH DAY OF CONSTRUCTION ACTIVITY ALL CONSTRUCTION DEBRIS AND WASTE MATERIALS SHALL BE COLLECTED AND PROPERLY DISPOSED IN TRASH OR RECYCLE BINS.
7. CONSTRUCTION SITES SHALL BE MAINTAINED IN SUCH A CONDITION THAT A STORM DOES NOT CARRY WASTES OR POLLUTANTS OFF THE SITE. DISCHARGES OTHER THAN STORMWATER (NON-STORMWATER DISCHARGES) ARE PROHIBITED, EXCEPT AS AUTHORIZED BY AN INDIVIDUAL NPDES PERMIT OR THE STATEWIDE GENERAL CONSTRUCTION STORMWATER PERMIT. POTENTIAL POLLUTANTS INCLUDE BUT ARE NOT LIMITED TO: SOLID OR LIQUID CHEMICAL SPILLS, WASTES FROM PAINTS, STAINS, SEALANTS, SOLVENTS, DETERGENTS, GLUES, LIME, PESTICIDES, HERBICIDES, FERTILIZERS, WOOD PRESERVATIVES, AND ASBESTOS FIBERS, PAINT FLAKES OR STUCCO FRAGMENTS; FUELS, OILS, LUBRICANTS, AND HYDRAULIC, RADIATOR OR BATTERY FLUIDS, CONCRETE AND RELATED CUTTING OR CURING RESIDUES; FLOATABLE WASTES; WASTES FROM ENGINE/EQUIPMENT STEAM CLEANING OR CHEMICAL DEGREASING; WASTES FROM STREET CLEANING; AND SUPER-CHLORINATED POTABLE WATER FROM LINE FLUSHING AND TESTING.
8. DURING CONSTRUCTION, DISPOSAL OF SUCH MATERIALS SHOULD OCCUR IN A SPECIFIED AND CONTROLLED TEMPORARY AREA ON-SITE PHYSICALLY SEPARATED FROM POTENTIAL STORMWATER RUNOFF, WITH ULTIMATE DISPOSAL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS. DISCHARGING OF CONTAMINATED GROUNDWATER PRODUCED BY DEWATERING GROUNDWATER THAT HAS INFILTRATED INTO THE CONSTRUCTION SITE IS PROHIBITED. DISCHARGING OF CONTAMINATED SOILS VIA SURFACE EROSION IS ALSO PROHIBITED.
9. DISCHARGING NONCONTAMINATED GROUNDWATER PRODUCED BY DEWATERING ACTIVITIES REQUIRES A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FROM THE RESPECTIVE STATE REGIONAL WATER QUALITY CONTROL BOARD.

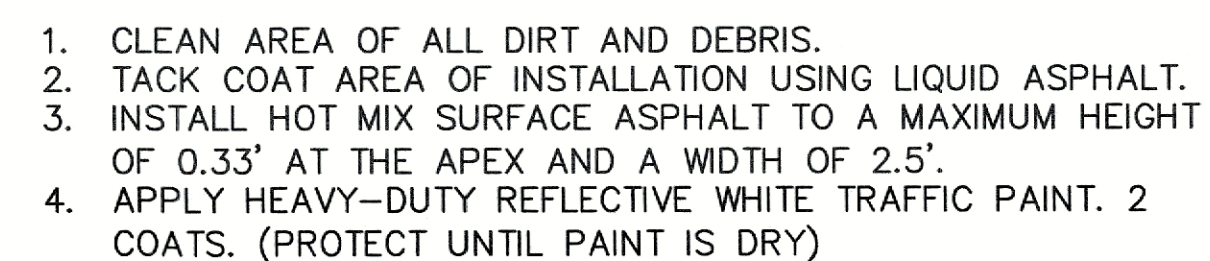
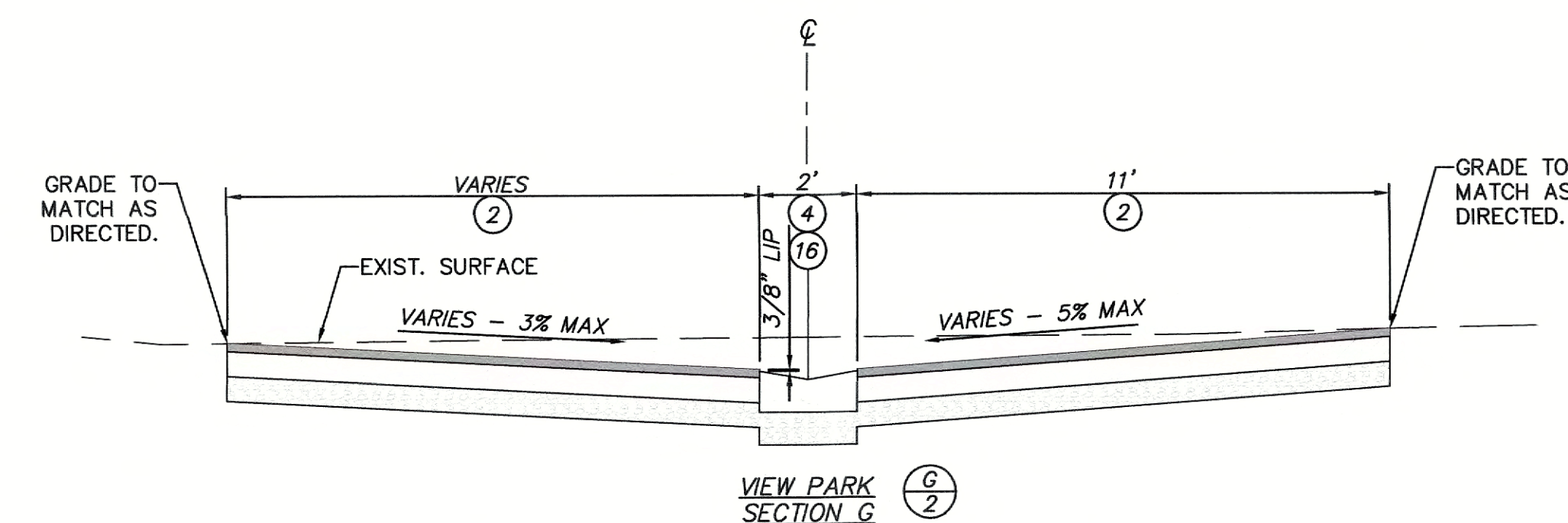
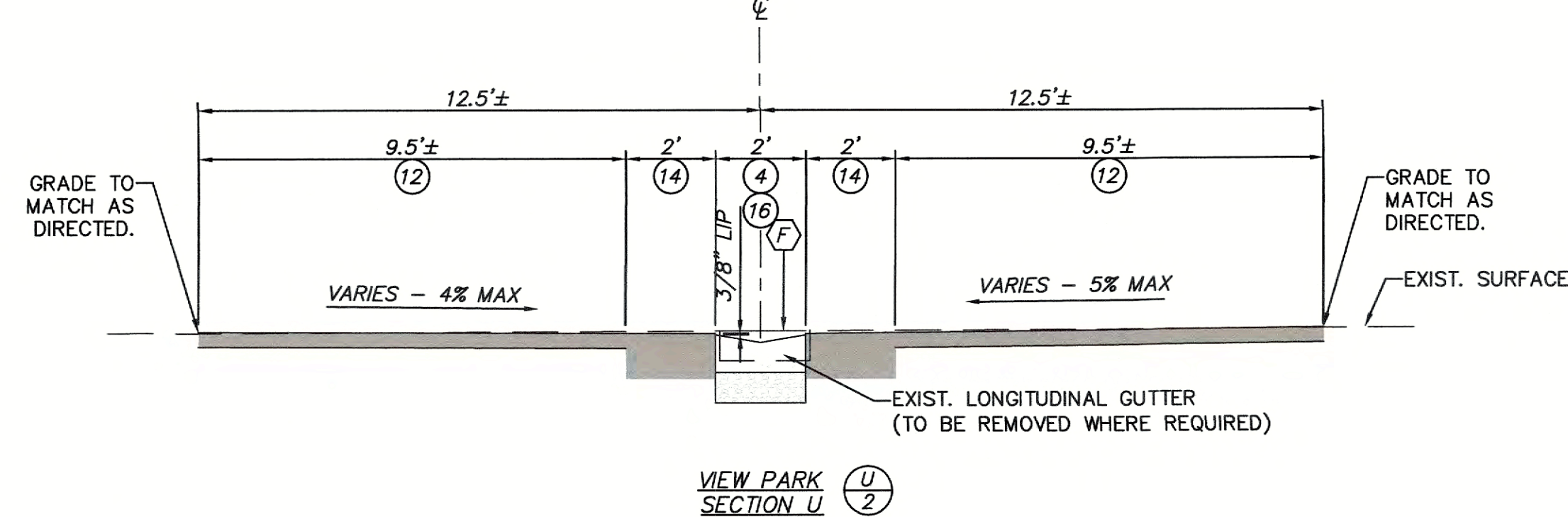
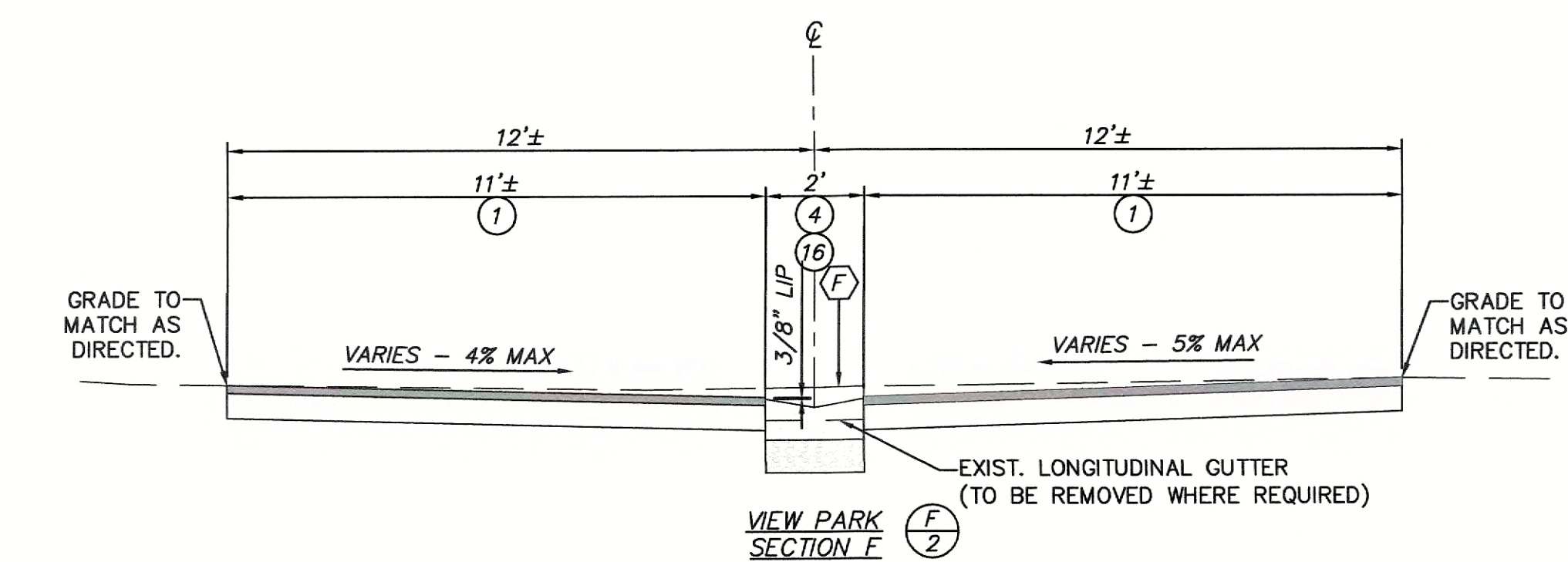
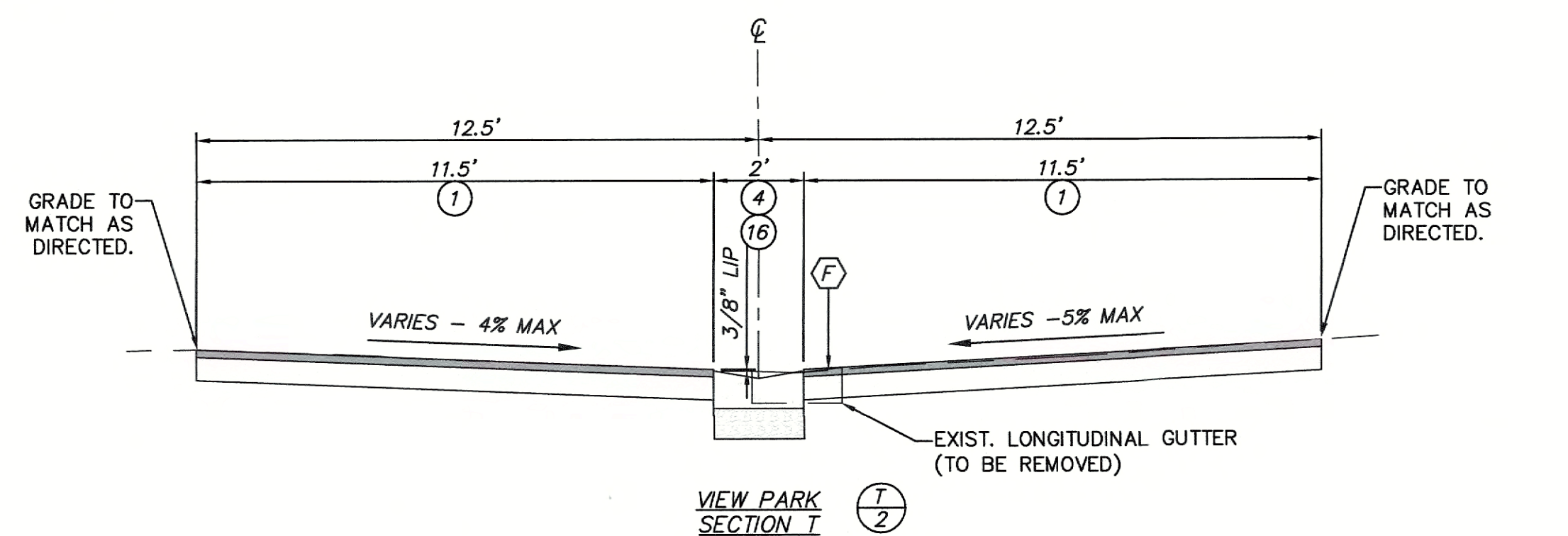
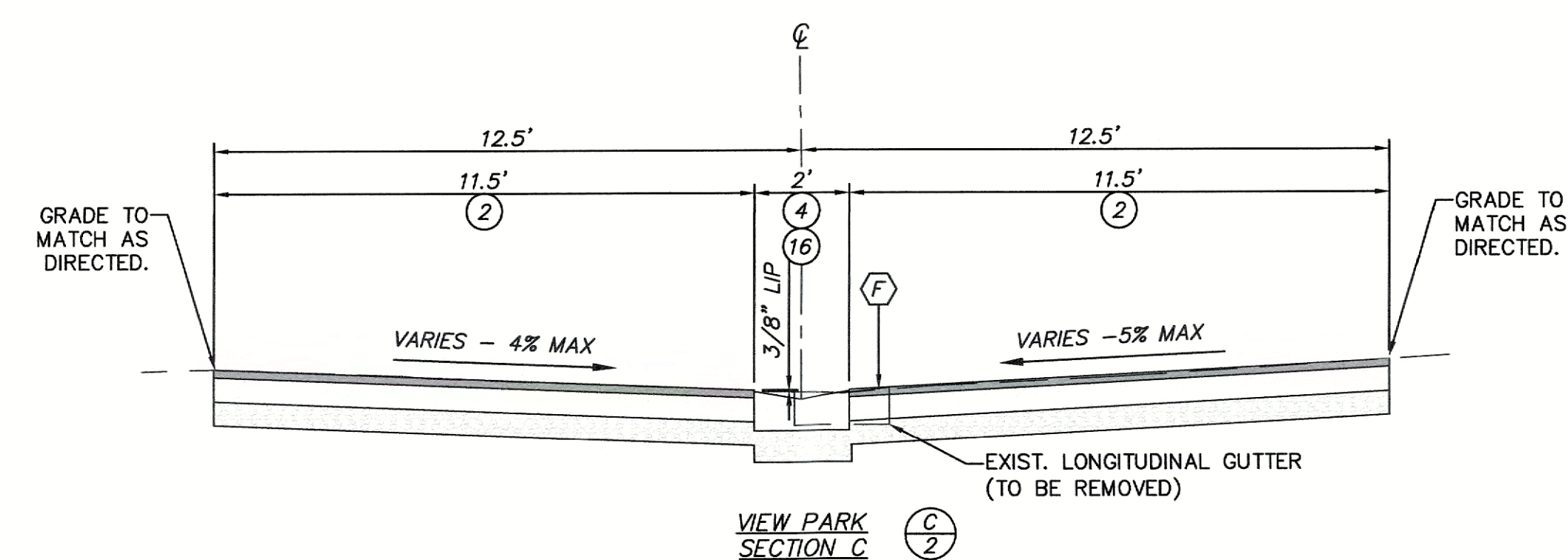
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1	REV/DATE DESCRIPTION BY	1 TITLE SHEET
2		2 SECTIONS AND DETAILS - VIEW PARK
3		3-4 SECTIONS AND DETAILS - PARK LA HABRA
4		5 PLAN-PARK LA HABRA PAVEMENT REHABILITATION
		6 PLAN-VIEW PARK PAVEMENT REHABILITATION
		7 STRIPING PLAN-PARK LA HABRA
		8 STRIPING PLAN-VIEW PARK

CITY OF LA HABRA

PARK LA HABRA MOBILE HOME PARK AND VIEW PARK MOBILE HOME ESTATES PARK STREET IMPROVEMENTS - PROJECT NO. 3-R-17

TITLE SHEET

RECOMMENDED BY DATE:	APP'D BY  CITY ENGINEER DATE: 7-7-2021	DWG. NO. I-D-512 SHEET 1 OF 8 SHEETS
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A circular professional engineer seal for L. Smeets, No. 78314, State of California. The seal features the text "REGISTERED PROFESSIONAL ENGINEER" around the top, "JUST IN L. SMEETS" in the center, and "No. 78314" below it. The bottom arc reads "STATE OF CALIFORNIA". A signature is written across the bottom of the seal.

15'

15'

4'

4'

1.2%

4%

4%

1.2%

1.2%

1.2%

STRAIGHT GRADE VALLEY

MATCH AC GRADE

STRAIGHT GRADE VALLEY

MATCH AC GRADE

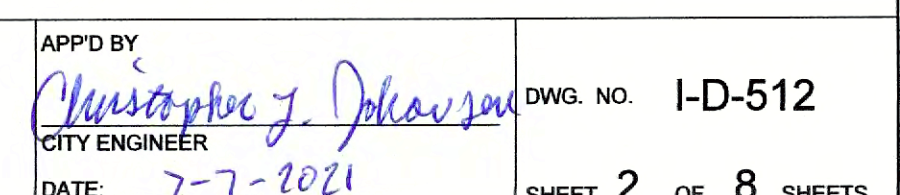
PROPOSED WEST LONGITUDINAL GUTTER

EXISTING GRATE (PROTECT IN PLACE)

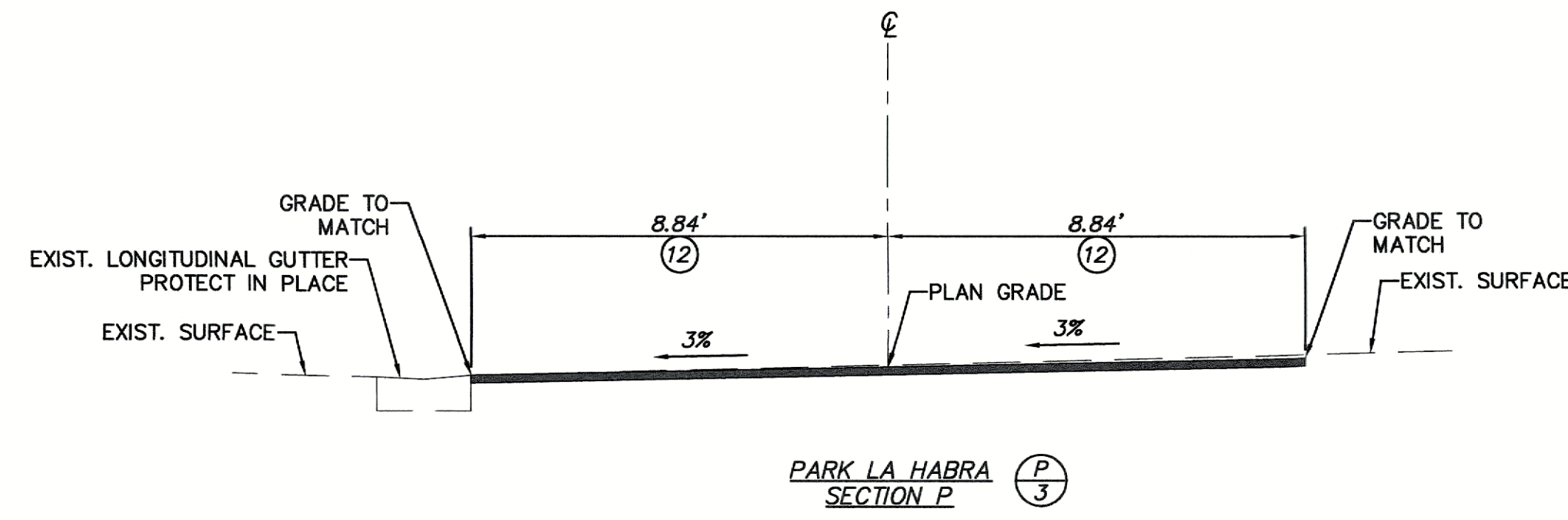
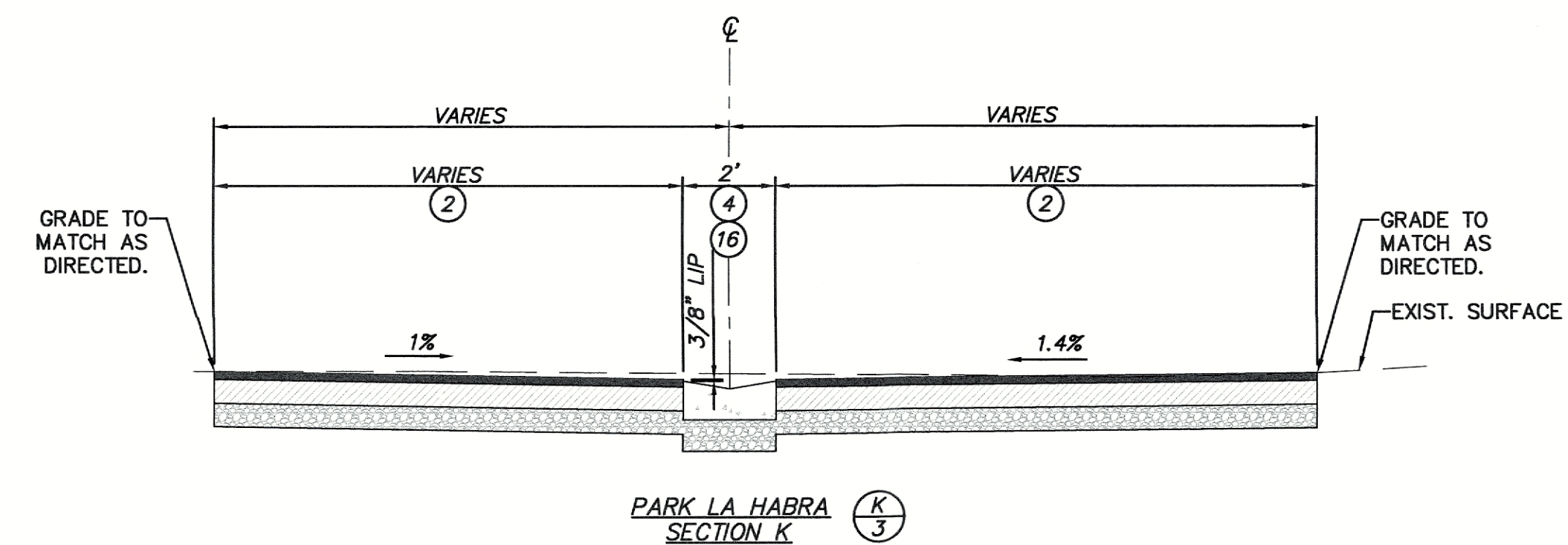
MATCH AC GRADE

PROPOSED SOUTH LONGITUDINAL GUTTER

CATCH BASIN #2
SEE SHEET 6

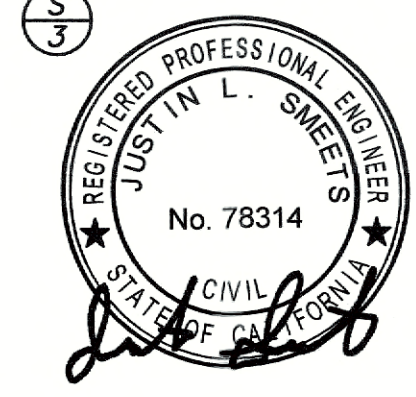
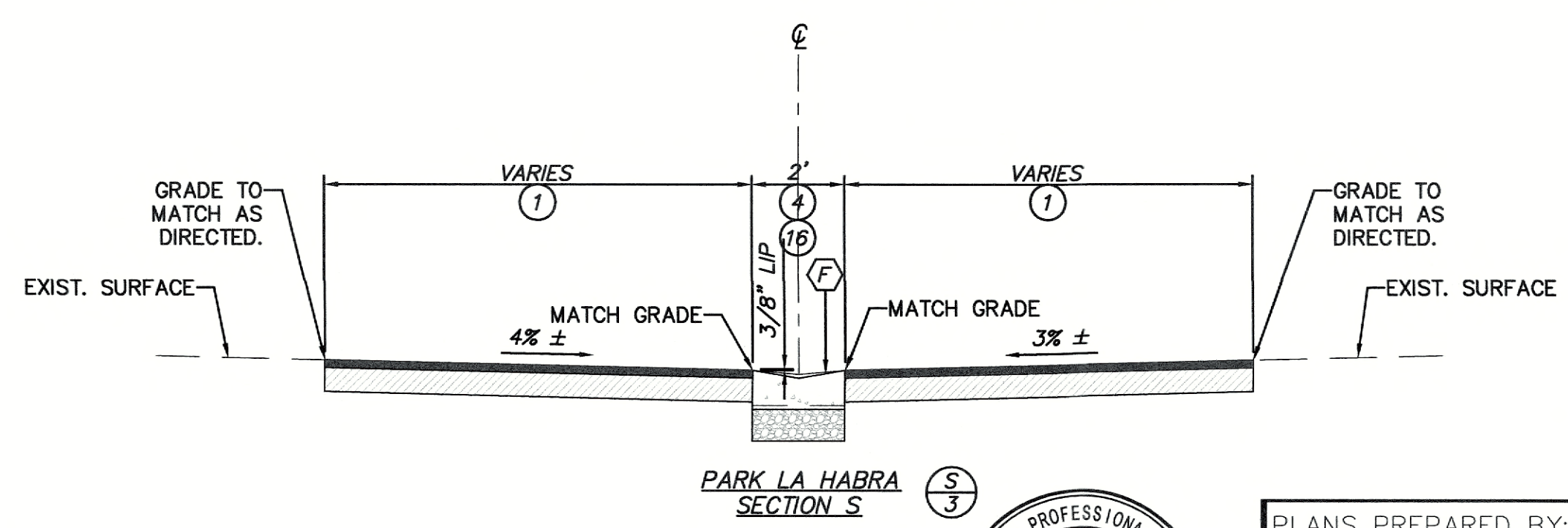
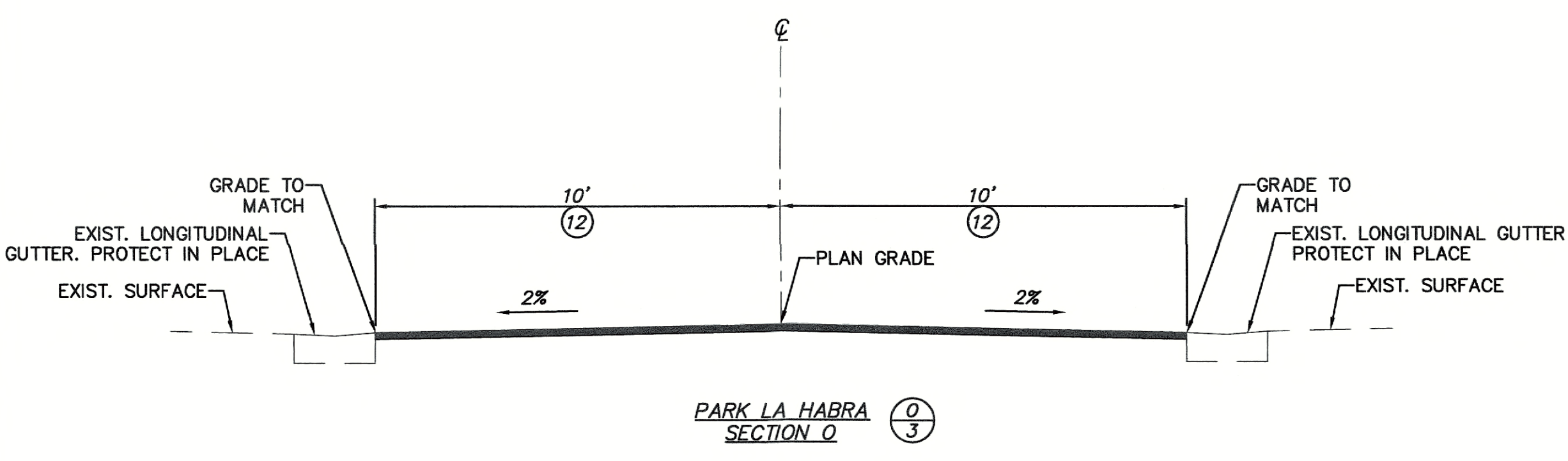
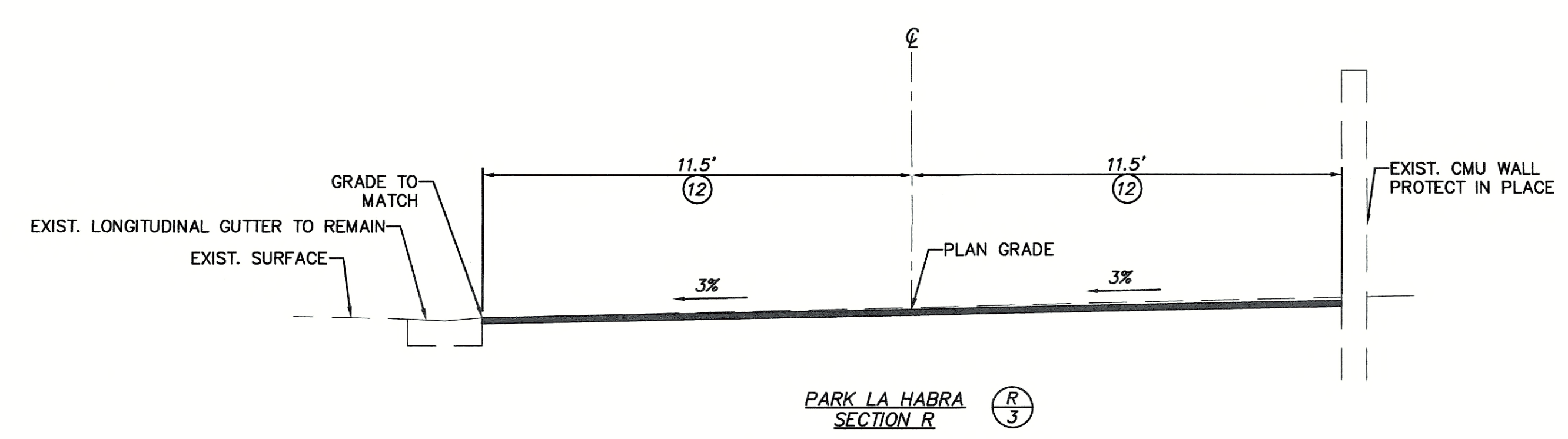
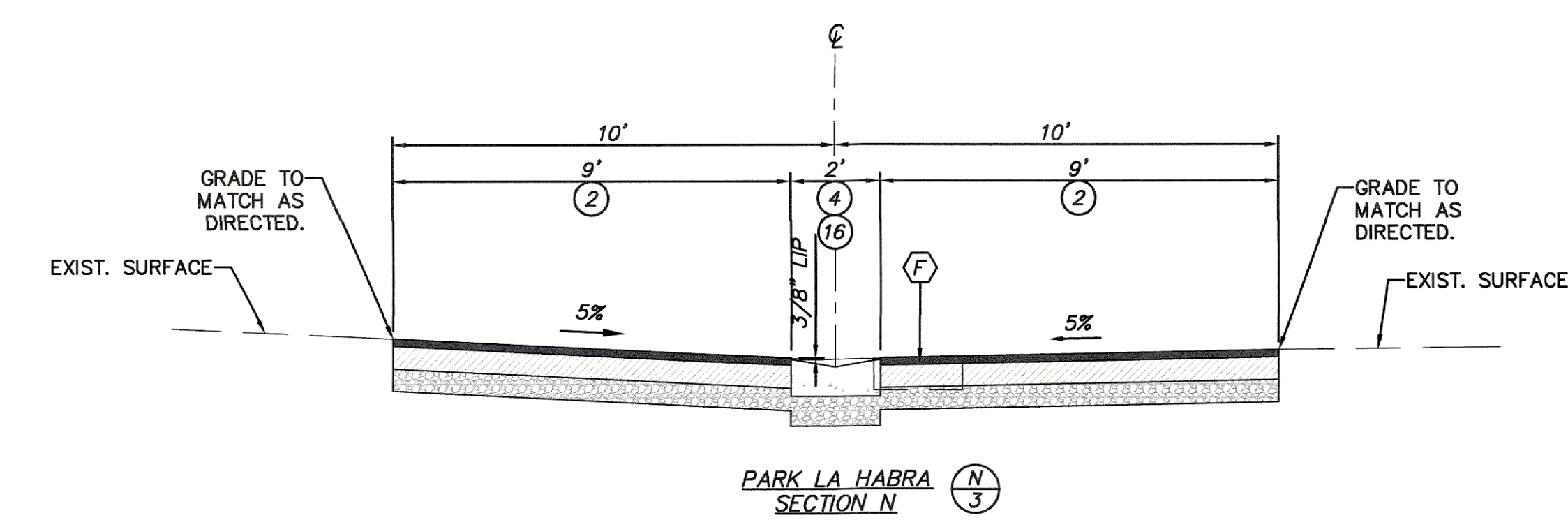
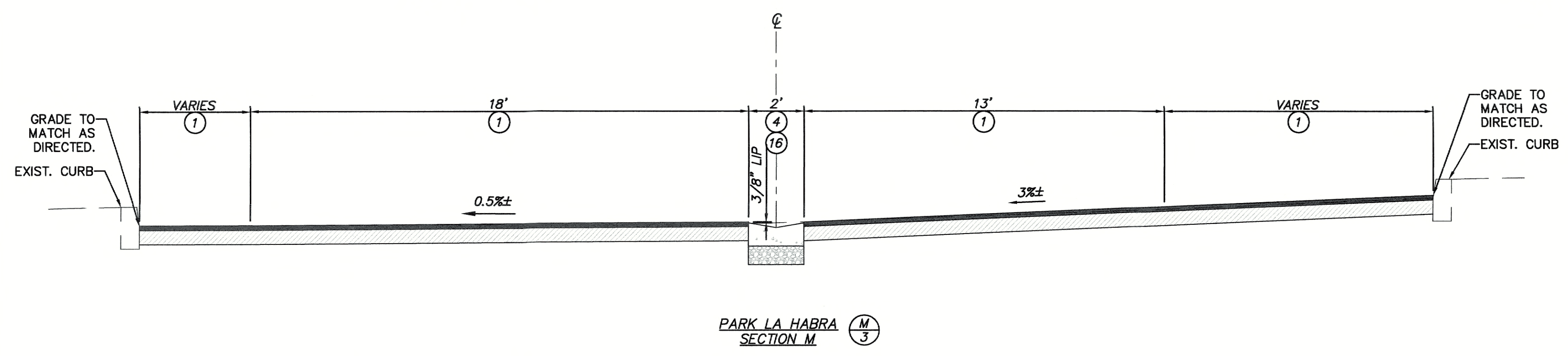
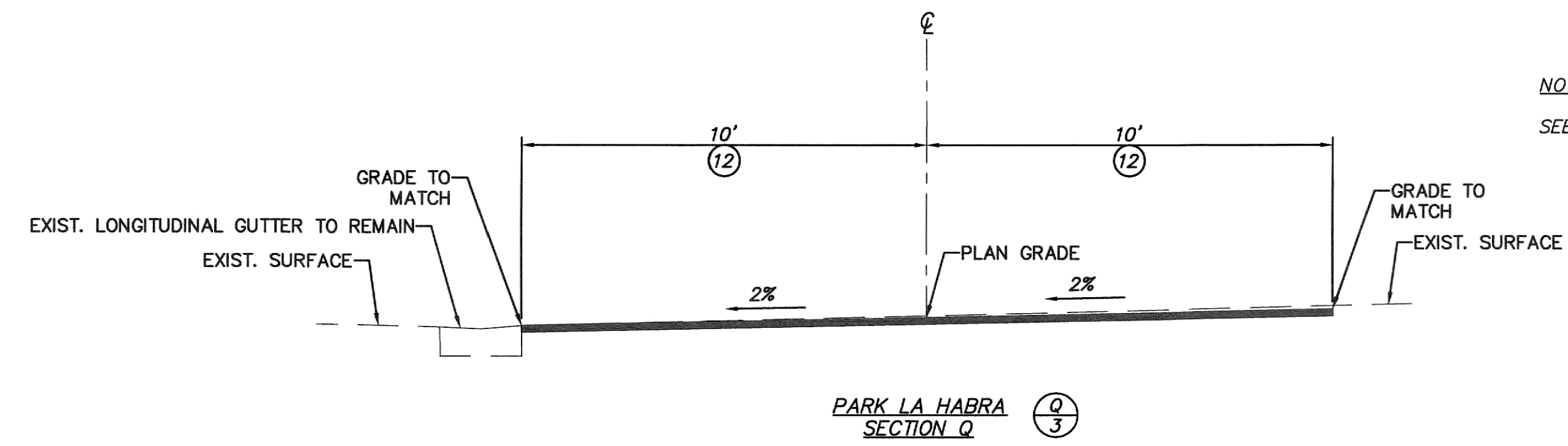
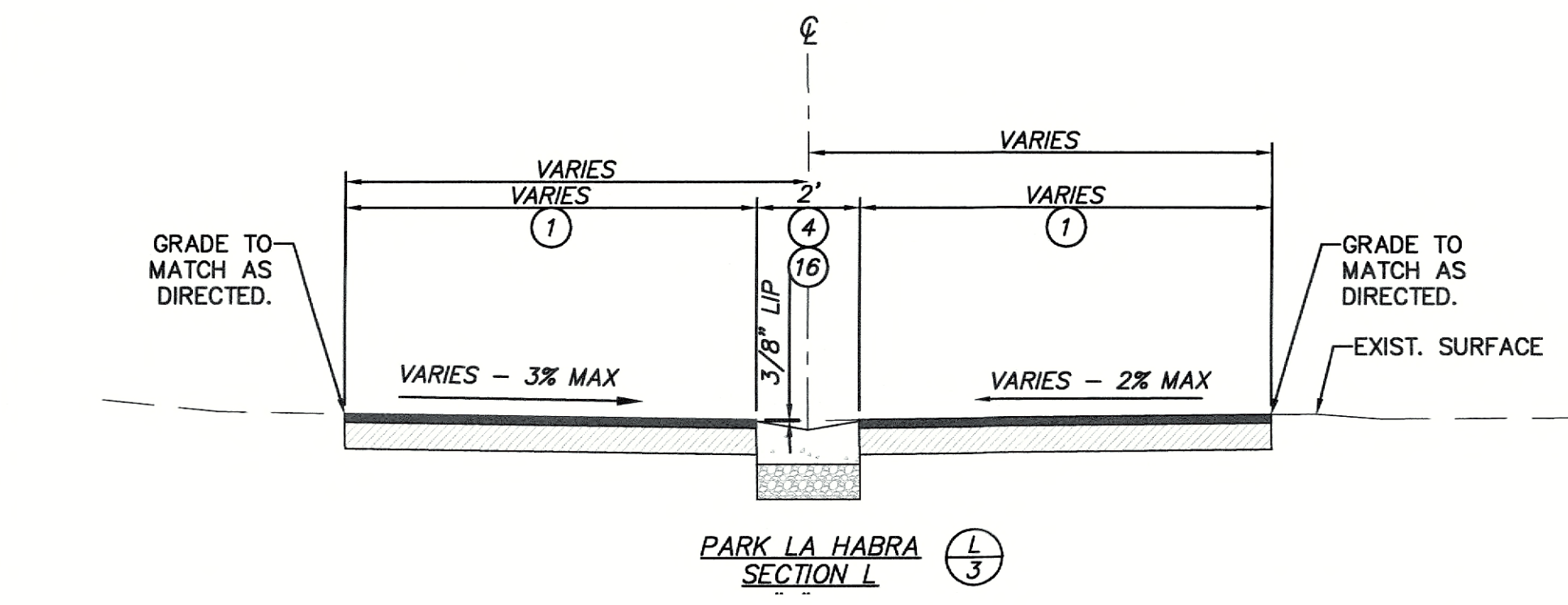


PARK LA HABRA MOBILE HOME PARK



- DISPOSITION NOTES:**
- (F) REMOVE 2' WIDE EXISTING PCC LONGITUDINAL GUTTER
- CONSTRUCTION NOTES:**
- (1) SAW-CUT & REMOVE FULL DEPTH STRUCTURAL SECTION TO A DEPTH OF 8". FURNISH & CONSTRUCT 2" AC TYPE (C2-PG 64-10) OVER 6" AC TYPE (B-PG 64-10).
 - (2) SAW-CUT & REMOVE FULL DEPTH STRUCTURAL SECTION TO A DEPTH OF 14". FURNISH & CONSTRUCT 2" AC TYPE (C2-PG 64-10) OVER 6" AC TYPE (B-PG 64-10) OVER 6" COMPACTED CMB.
 - (4) FURNISH & CONSTRUCT 2' WIDE PCC LONGITUDINAL GUTTER OVER 6" COMPACTED CMB PER DETAIL (A/4)
 - (12) SAW CUT/COLD MILL EXISTING AC PAVEMENT 3" THICK. FURNISH & CONSTRUCT 2" AC TYPE (C2-PG 64-10) OVER 1" AC TYPE (B-PG 64-10)
 - (16) REMOVE FULL DEPTH STRUCTURAL SECTION TO A DEPTH OF 14".

NOTE
SEE PLAN VIEW FOR PAVEMENT SECTIONS LIMITS THROUGH INTERSECTIONS.

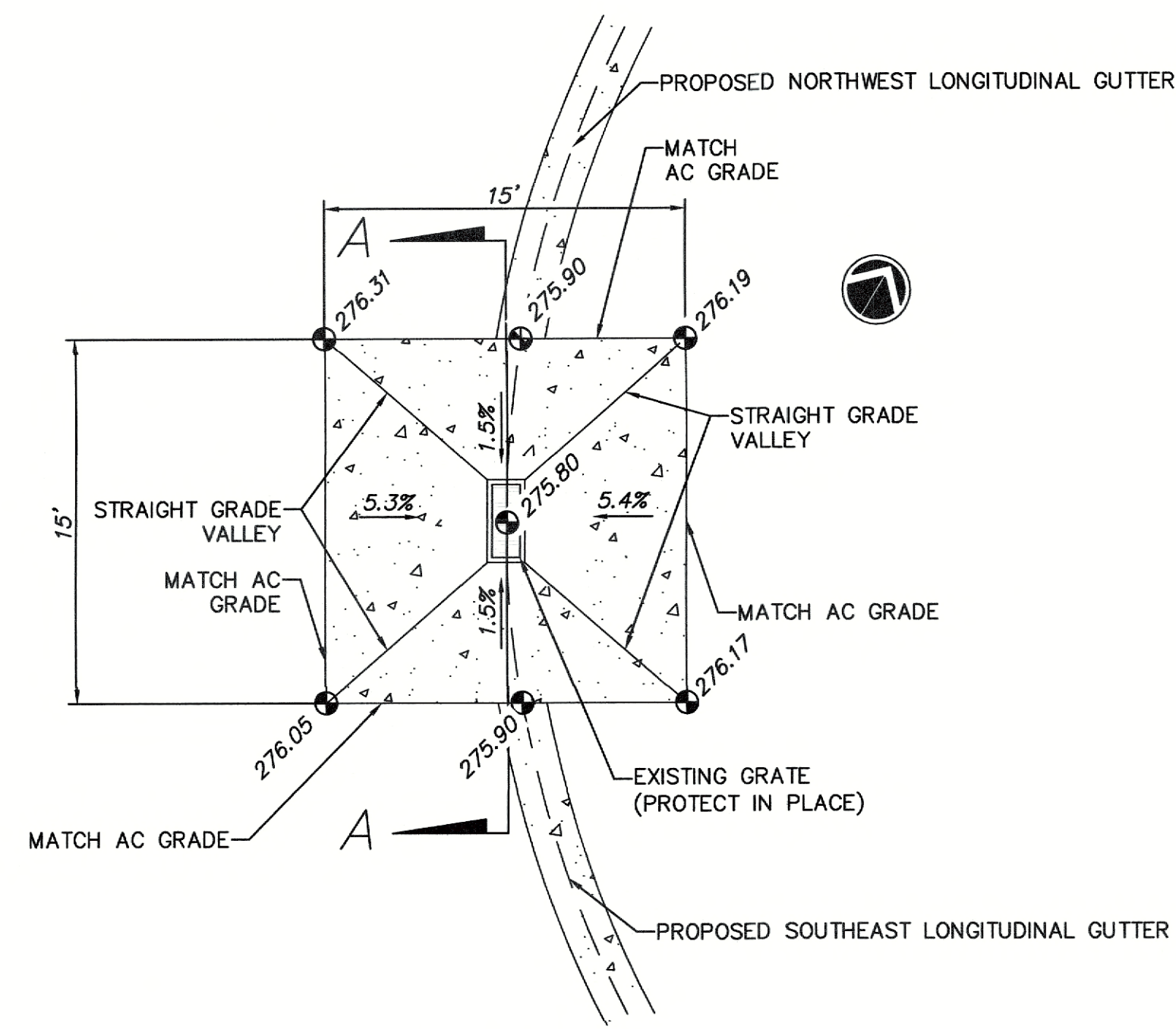


PLANS PREPARED BY:
ONWARD ENGINEERING
300 S. HARBOR BLVD., SUITE 814
ANAHEIM, CA 92805
T: (714) 533-3050
F: (714) 808-1270

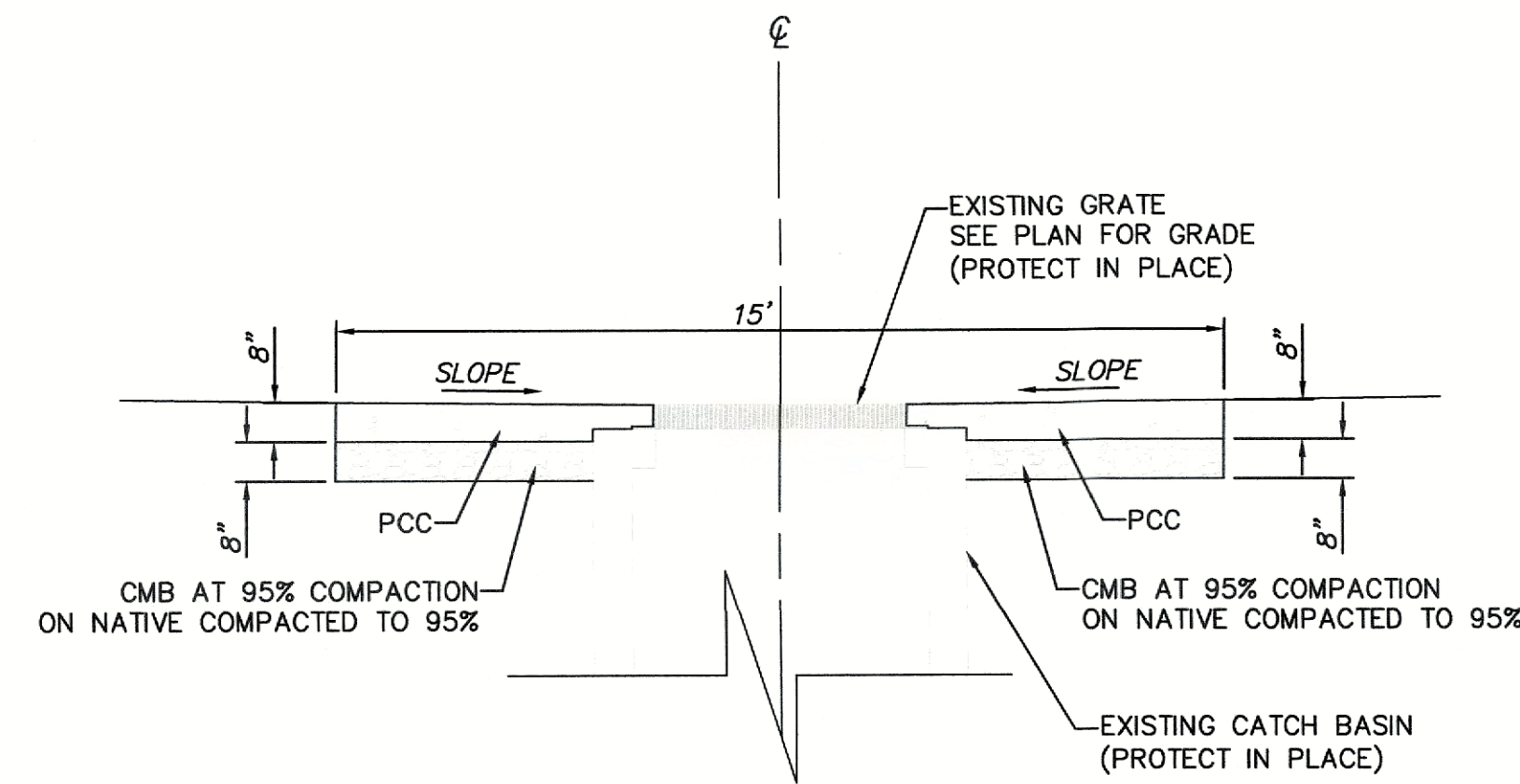
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CITY OF LA HABRA	
PARK LA HABRA MOBILE HOME PARK AND VIEW PARK MOBILE HOME ESTATES PARK STREET IMPROVEMENTS - PROJECT NO. 3-R-17	
PARK LA HABRA SECTIONS AND DETAILS	
RECOMMENDED BY	APPROVED BY
	<i>Christopher J. Johnson</i>
DATE	DATE: 7-7-2021
DWG. NO. I-D-512	
SHEET 3 OF 8 SHEETS	

PARK LA HABRA MOBILE HOME PARK

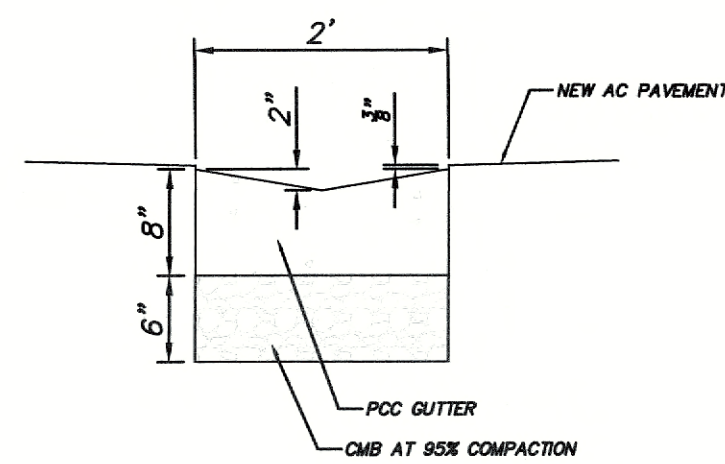


CATCH BASIN #1
SEE SHEET 5



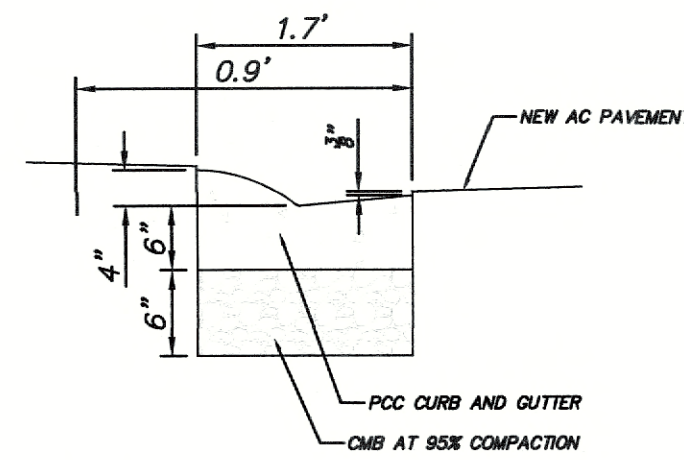
PCC LOCAL DEPRESSION
NTS

D
4



LONGITUDINAL GUTTER SECTION
NTS

A
4



CURB AND GUTTER SECTION
NTS

B
4



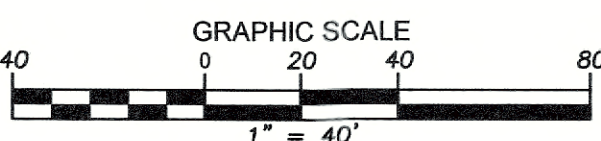
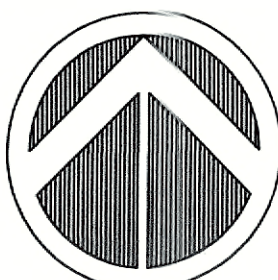
PLANS PREPARED BY:

ONWARD ENGINEERING
300 S. HARBOR BLVD., SUITE 814
ANAHEIM, CA 92805
T: (714) 533-3050
F: (714) 808-1270

REVISIONS			
NO.	DATE	DESCRIPTION	BY
1			
2			
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CITY OF LA HABRA	
PARK LA HABRA MOBILE HOME PARK AND VIEW PARK MOBILE HOME ESTATES PARK STREET IMPROVEMENTS - PROJECT NO. 3-R-17	
PARK LA HABRA SECTIONS AND DETAILS	
RECOMMENDED BY	APPROVED BY <i>Christopher J. Johnson</i> CITY ENGINEER
DATE	DATE: 7-7-2021
DWG. NO. I-D-512	
SHEET 4 OF 8 SHEETS	

PARK LA HABRA MOBILE HOME PARK

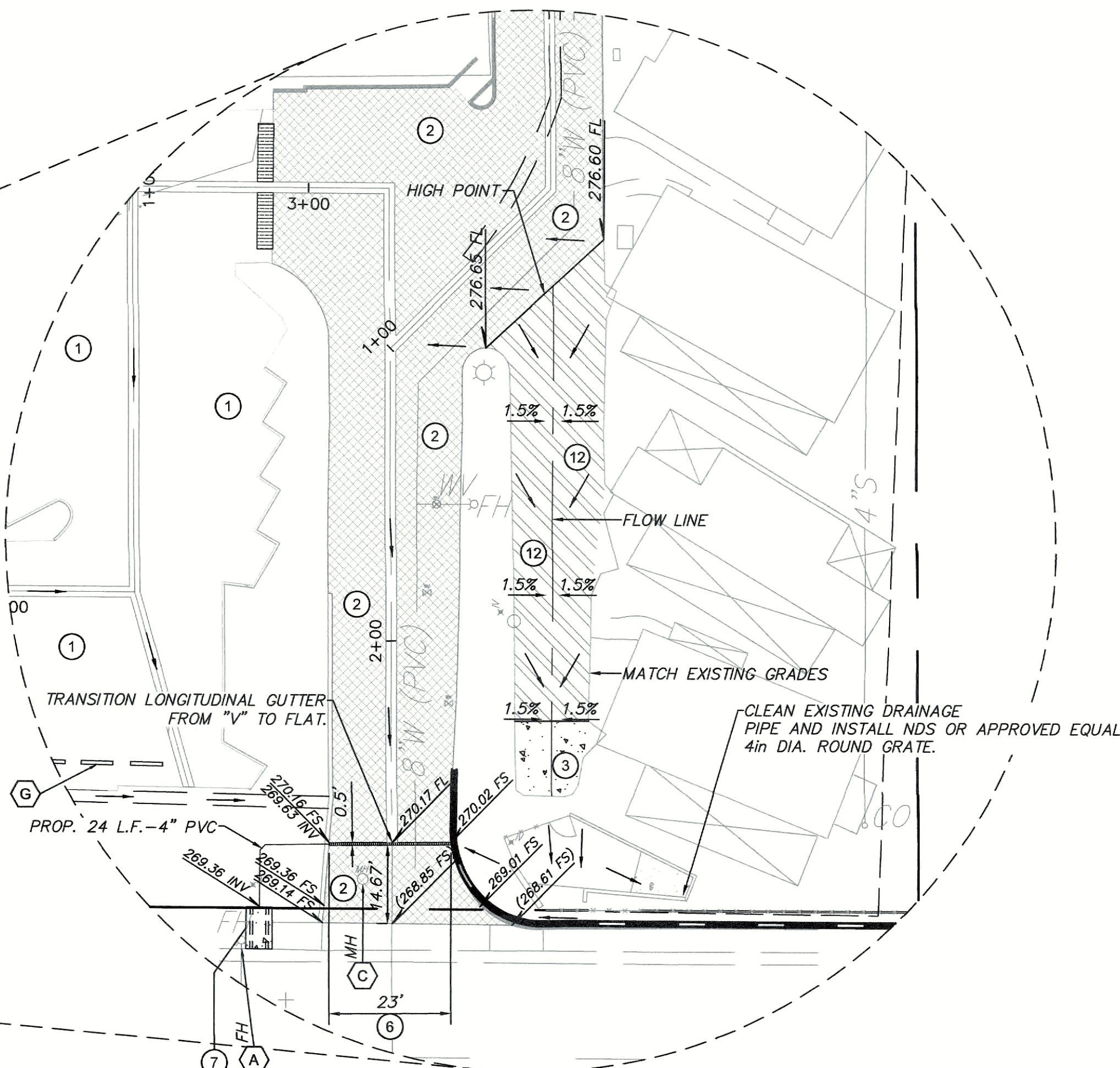
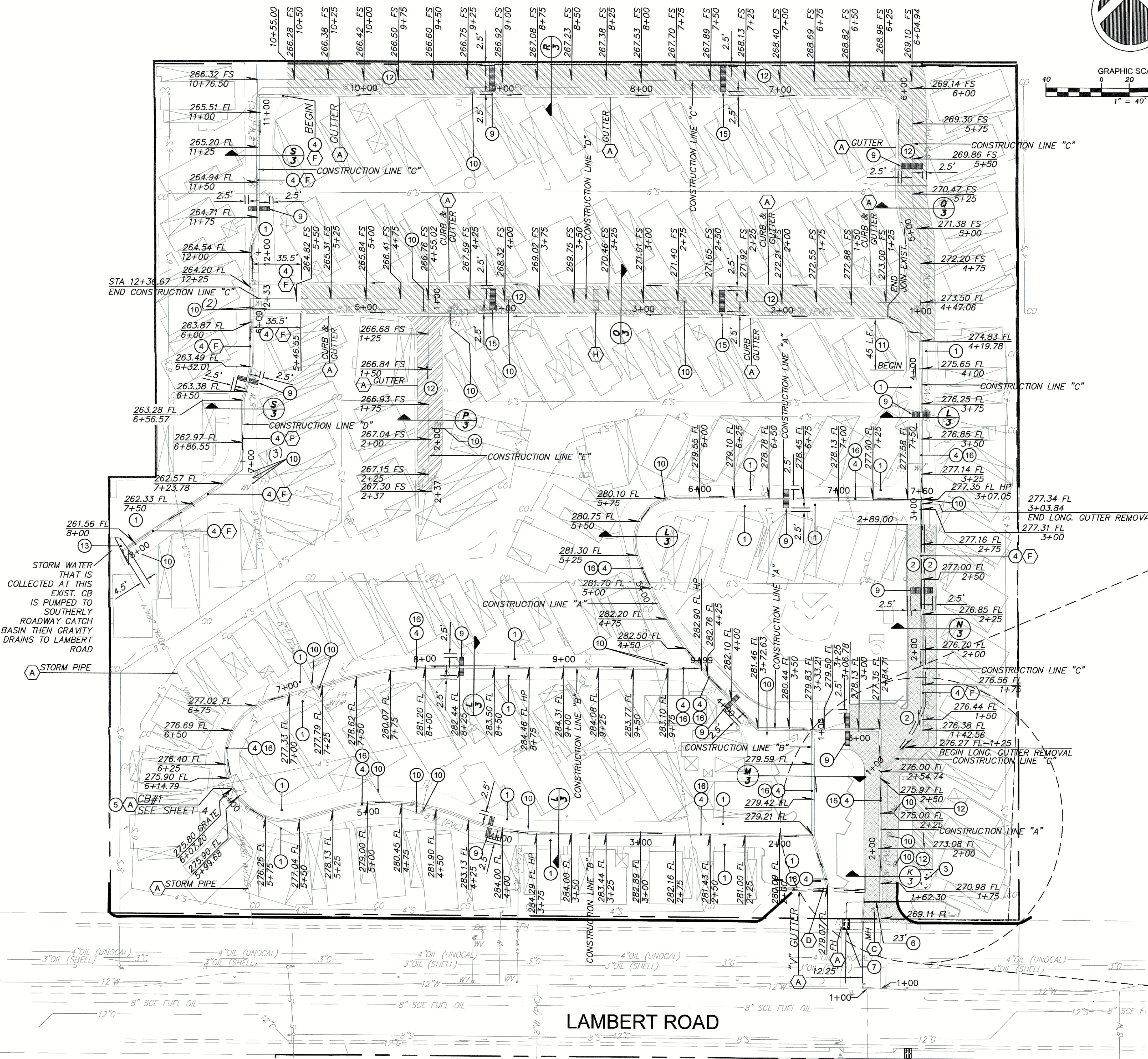


DISPOSITION NOTES:

- (A) PROTECT IN PLACE (ITEM AS NOTED)
- (C) ADJUST TO GRADE (ITEM AS NOTED)
- (D) REMOVE, SALVAGE AND REPLACE EXISTING WOOD FENCE AS NEEDED TO CONSTRUCT LONGITUDINAL GUTTER
- (F) REMOVE 2' WIDE EXISTING PCC LONGITUDINAL GUTTER
- (G) REMOVE, SALVAGE AND REPLACE EXISTING WHEEL STOPS
- (H) REMOVE EXISTING SPEED BUMP AND DISPOSE

CONSTRUCTION NOTES:

- (1) SAW-CUT & REMOVE FULL DEPTH STRUCTURAL SECTION TO A DEPTH OF 8". FURNISH & CONSTRUCT 2" AC TYPE (C2-PG 64-10) OVER 6" AC TYPE (B-PG 64-10).
- (2) SAW-CUT & REMOVE FULL DEPTH STRUCTURAL SECTION TO A DEPTH OF 14". FURNISH & CONSTRUCT 2" AC TYPE (C2-PG 64-10) OVER 6" AC TYPE (B-PG 64-10) OVER 6" COMPACTED CMB.
- (3) REMOVE EXISTING PCC & AC PAVEMENT, FURNISH & CONSTRUCT 4" THICK PCC PAVEMENT OVER NATIVE.
- (4) FURNISH & CONSTRUCT 2' WIDE PCC LONGITUDINAL GUTTER OVER 6" COMPACTED CMB PER DETAIL (A/4).
- (5) FURNISH & CONSTRUCT 15' X 15' PCC LOCAL DEPRESSION PER DETAIL (D/4).
- (6) FURNISH & CONSTRUCT ALHAMBRA FOUNDRY A-2446, 6" WIDE TRENCH DRAIN OR APPROVED EQUAL WITH 4" STEEL CONNECTOR PIPE. LENGTH SHOWN ON PLAN.
- (7) REMOVE EXISTING PCC SIDEWALK, FURNISH & CONSTRUCT SPPWC STD. PLAN 151-2 PARKWAY DRAIN, S=18" OVER COMPACTED NATIVE.
- (9) REMOVE EXISTING AND CONSTRUCT NEW 2.5' WIDE, 0.25' HIGH AC SPEED HUMP. SEE DETAIL SHEET 2.
- (10) ADJUST WATER VALVE TO GRADE.
- (11) FURNISH & CONSTRUCT 1.7" WIDE CURB AND GUTTER OVER 6" COMPACTED CMB PER DETAIL (B/4).
- (12) SAW CUT/COLD MILL EXISTING AC PAVEMENT 3" THICK. FURNISH & CONSTRUCT 2" AC TYPE (C2-PG 64-10) OVER 1" AC TYPE (B-PG 64-10).
- (13) SAWCUT AND REMOVE EXISTING REINFORCED PCC PAVEMENT, FURNISH & CONSTRUCT 6" THICK PCC PAVEMENT OVER NATIVE.
- (15) CONSTRUCT NEW 2.5' WIDE, 0.25' HIGH AC SPEED HUMP. DETAIL SHEET 2.
- (16) REMOVE FULL DEPTH STRUCTURAL SECTION TO A DEPTH OF 14".



LEGEND

- (1) SAW-CUT & REMOVE FULL DEPTH STRUCTURAL SECTION TO A DEPTH OF 8". FURNISH & CONSTRUCT 2" AC TYPE (C2-PG 64-10) OVER 6" AC TYPE (B-PG 64-10).
- (2) SAW-CUT & REMOVE FULL DEPTH STRUCTURAL SECTION TO A DEPTH OF 14". FURNISH & CONSTRUCT 2" AC TYPE (C2-PG 64-10) OVER 6" AC TYPE (B-PG 64-10) OVER 6" COMPACTED CMB.
- (12) SAW CUT/COLD MILL EXISTING AC PAVEMENT 3" THICK. FURNISH & CONSTRUCT 2" AC TYPE (C2-PG 64-10) OVER 1" AC TYPE (B-PG 64-10).



PLANS PREPARED BY:

ONWARD ENGINEERING
300 S. HARBOR BLVD., SUITE 814
ANAHEIM, CA 92805
T: (714) 533-3050
F: (714) 808-1270

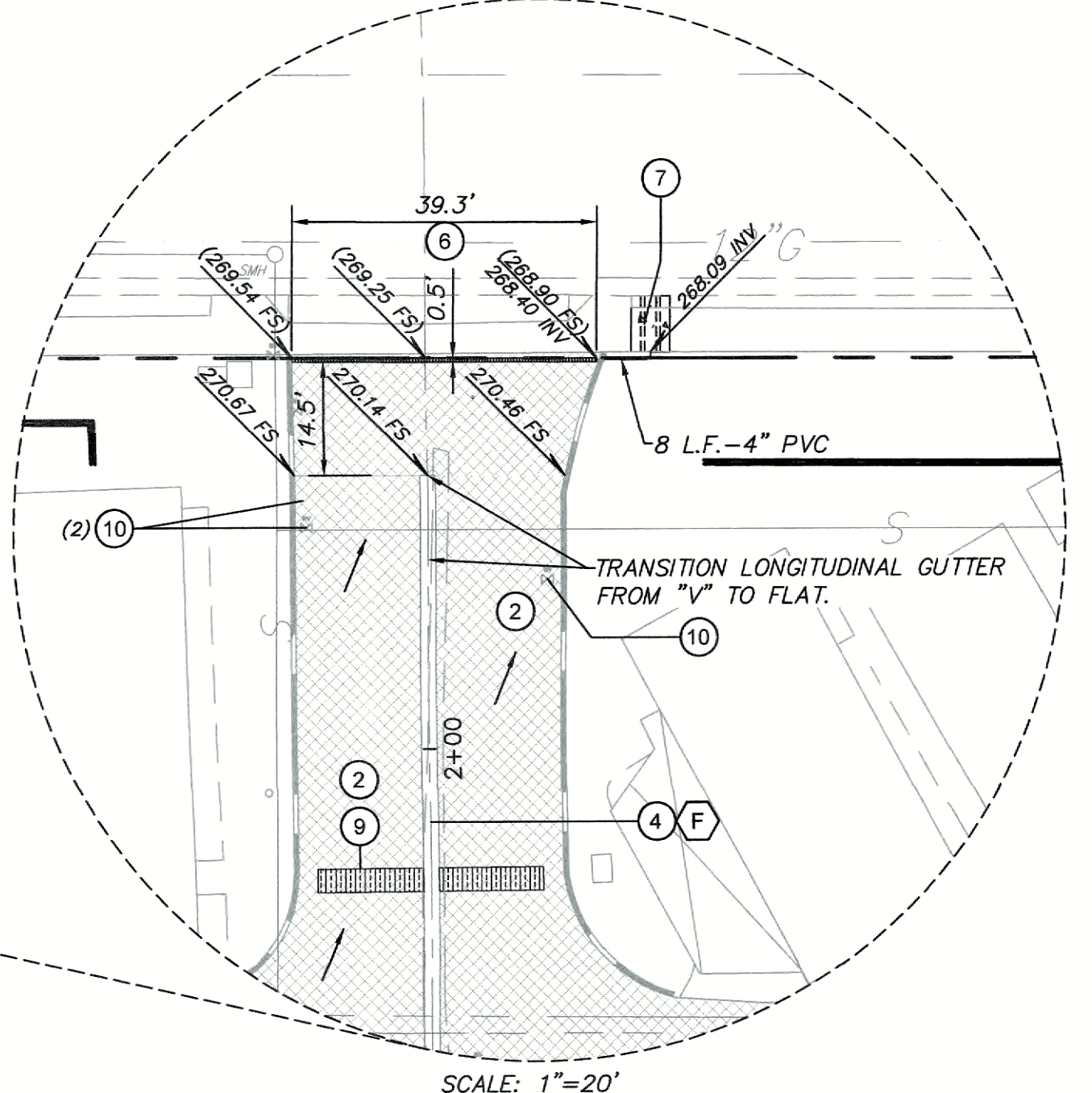
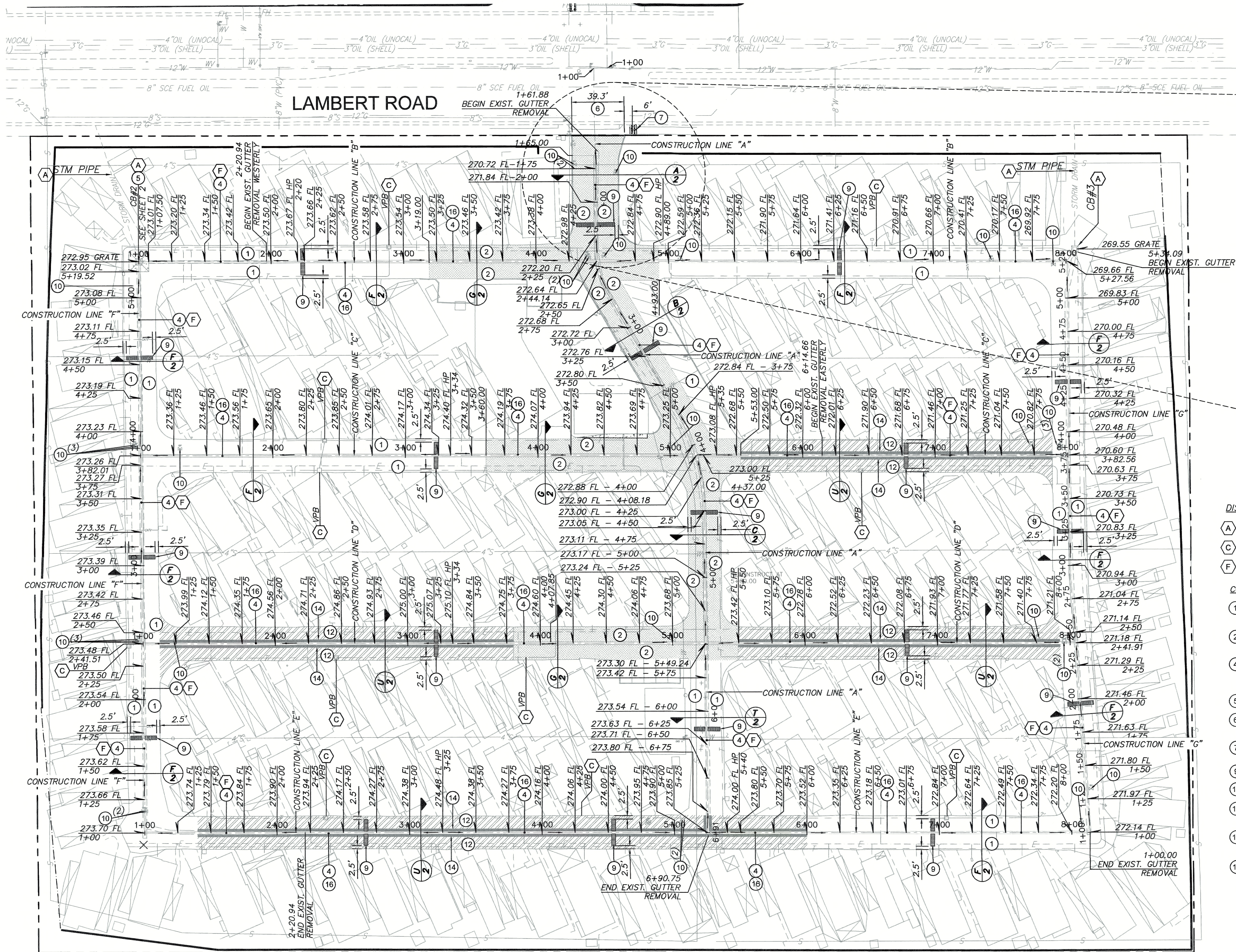
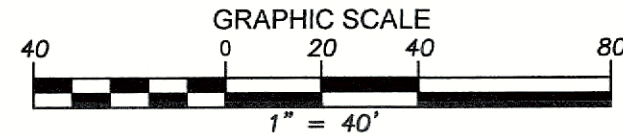
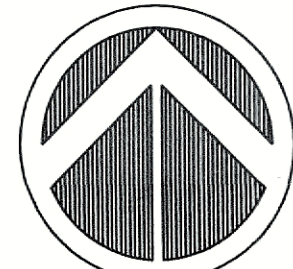
CITY OF LA HABRA

PARK LA HABRA MOBILE HOME PARK AND
VIEW PARK MOBILE HOME ESTATES PARK
STREET IMPROVEMENTS - PROJECT NO. 3-R-17
PLAN VIEW - PARK LA HABRA

REVISIONS	REV	DATE	DESCRIPTION
	1		
	2		
	3		
	4		

APPROVED BY: *Christopher J. Johnson*
CITY ENGINEER
DATE: 7-7-2021
DWG. NO. I-D-512
SHEET 5 OF 8 SHEETS

VIEW PARK MOBILE HOME ESTATES PARK



DISPOSITION NOTES:

- (A) PROTECT IN PLACE (ITEM AS NOTED)
- (C) ADJUST TO GRADE (ITEM AS NOTED)
- (F) REMOVE 2' WIDE EXISTING PCC LONGITUDINAL GUTTER

CONSTRUCTION NOTES

- (1) SAW-CUT & REMOVE FULL DEPTH STRUCTURAL SECTION TO A DEPTH OF 8". FURNISH & CONSTRUCT 2" AC TYPE (C2-PG 64-10) OVER 6" AC TYPE (B-PG 64-10).
- (2) SAW-CUT & REMOVE FULL DEPTH STRUCTURAL SECTION TO A DEPTH OF 14". FURNISH & CONSTRUCT 2" AC TYPE (C2-PG 64-10) OVER 6" AC TYPE (B-PG 64-10) OVER 6" COMPACTED CMB.
- (4) FURNISH & CONSTRUCT 2' WIDE PCC LONGITUDINAL GUTTER OVER 6" COMPACTED CMB PER DETAIL (A/4)
- (5) FURNISH & CONSTRUCT 15' X 15' PCC LOCAL DEPRESSION PER DETAIL (H/2)
- (6) FURNISH & CONSTRUCT ALHAMBRA FOUNDRY A-2446, 6" WIDE TRENCH DRAIN OR APPROVED EQUAL WITH 4" STEEL CONNECTOR PIPE. LENGTH SHOWN ON PLAN.
- (7) REMOVE EXISTING PCC SIDEWALK, FURNISH & CONSTRUCT SPPWC STD. PLAN 151-2 PARKWAY DRAIN, S=18" OVER COMPACTED NATIVE.
- (9) REMOVE EXISTING AND CONSTRUCT NEW 2.5' WIDE, 0.25' HIGH AC SPEED HUMP. SEE DETAIL SHEET 2.
- (10) ADJUST WATER VALVE TO GRADE.
- (12) SAW CUT/COLD MILL EXISTING AC PAVEMENT 3" THICK. FURNISH & CONSTRUCT 2" AC TYPE (C2-PG 64-10) OVER 1" AC TYPE (B-PG 64-10)
- (14) SAW CUT & REMOVE FULL STRUCTURAL SECTION TO A DEPTH OF 12", FURNISH & INSTALL 12" AC (C2 PG 64-10) ON COMPACTED NATIVE/BASE. 2' EACH SIDE.
- (16) REMOVE FULL DEPTH STRUCTURAL SECTION TO A DEPTH OF 14".

LEGEND

- (1) SAW-CUT & REMOVE FULL DEPTH STRUCTURAL SECTION TO A DEPTH OF 8". FURNISH & CONSTRUCT 2" AC TYPE (C2-PG 64-10) OVER 6" AC TYPE (B-PG 64-10).
- (2) SAW-CUT & REMOVE FULL DEPTH STRUCTURAL SECTION TO A DEPTH OF 14". FURNISH & CONSTRUCT 2" AC TYPE (C2-PG 64-10) OVER 6" AC TYPE (B-PG 64-10) OVER 6" COMPACTED CMB.
- (12) SAW CUT/COLD MILL EXISTING AC PAVEMENT 3" THICK. FURNISH & CONSTRUCT 2" AC TYPE (C2-PG 64-10) OVER 1" AC TYPE (B-PG 64-10)

- (14) SAW CUT & REMOVE FULL STRUCTURAL SECTION TO A DEPTH OF 12", FURNISH & INSTALL 12" AC (C2 PG 64-10) ON COMPACTED NATIVE/BASE. 2' EACH SIDE.



PLANS PREPARED BY:

ONWARD ENGINEERING
300 S. HARBOR BLVD., SUITE 814
ANAHEIM, CA 92805
T: (714) 533-3050
F: (714) 808-1270

CITY OF LA HABRA

PARK LA HABRA MOBILE HOME PARK AND
VIEW PARK MOBILE HOME ESTATES PARK
STREET IMPROVEMENTS - PROJECT NO. 3-R-17

PLAN - VIEW PARK

REVISIONS	NO.	DATE	DESCRIPTION
1	1		REVISION DESCRIPTION
2	2		
3	3		
4	4		

RECOMMENDED BY
DATE:

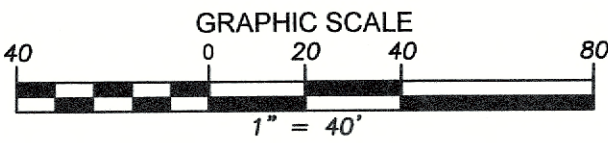
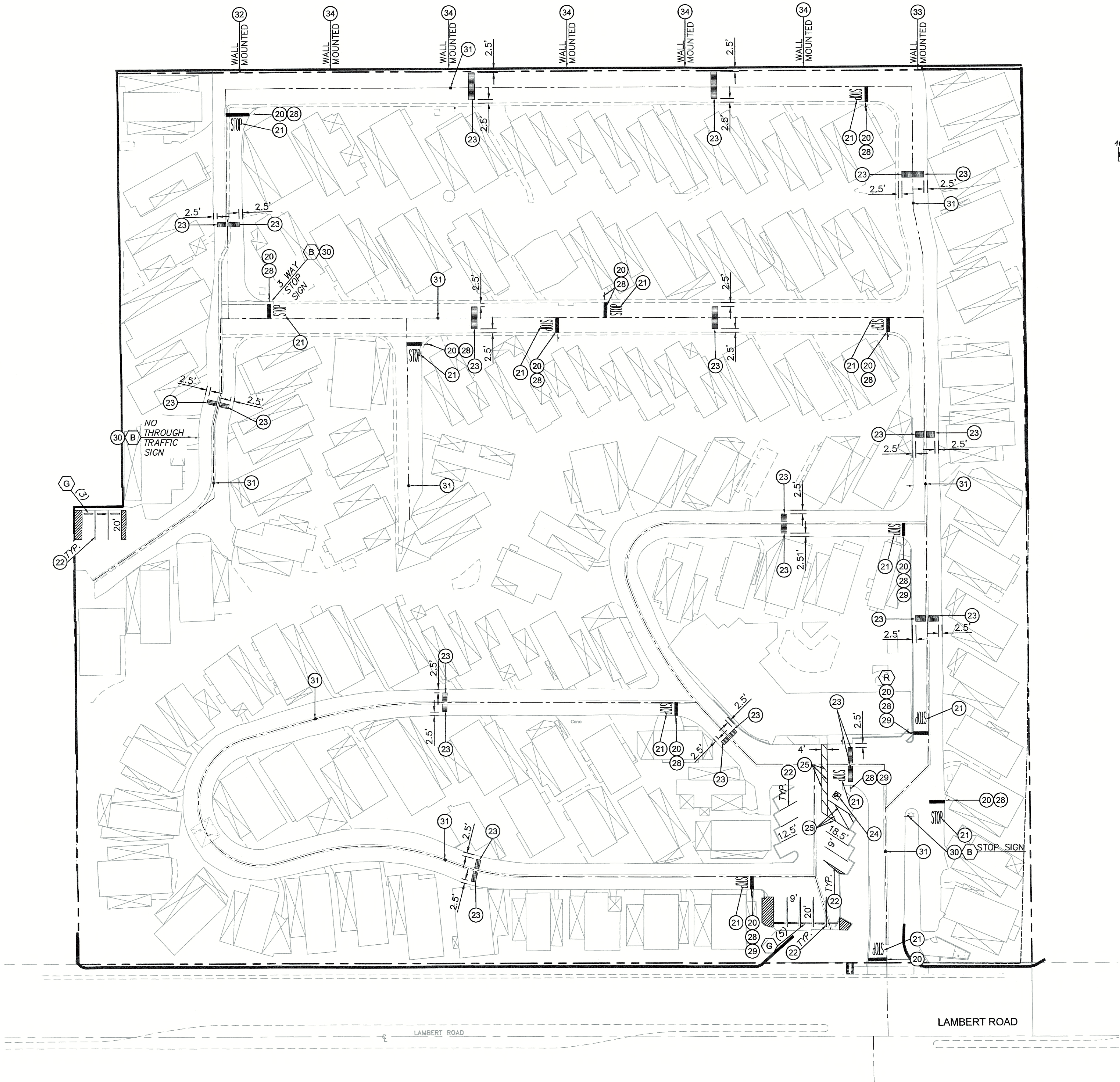
APPROVED BY
CITY ENGINEER

DATE: 7-7-2021

DWG. NO. I-D-512

SHEET 6 OF 8 SHEETS

PARK LA HABRA MOBILE HOME PARK



DISPOSITION NOTES:

- (B) REMOVE, HAUL AWAY & DISPOSE (ITEM AS NOTED)
- (R) RELOCATE EXISTING SIGN TO NEW POST
- (G) REMOVE. SALVAGE AND REPLACE EXISTING WHEEL STOPS

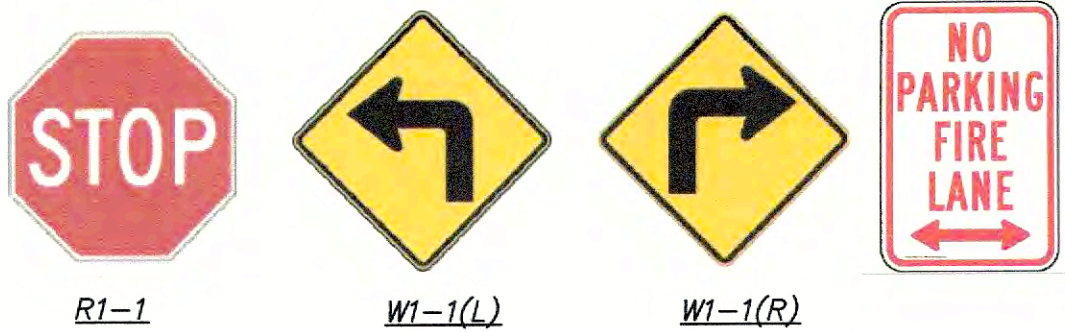
STRIPING NOTES:

- (20) PAINT 12 INCH LIMIT LINE PER CALTRANS STD. A24E
- (21) PAINT "STOP" PAVEMENT MARKING WORD PER CALTRANS STD. A24D
- (22) PAINT 4 INCH WIDE, WHITE (2 COATS) PARKING STRIPE PER SPPWC STD PLAN 180-0
- (23) PAINT SPEED HUMP WHITE (2 COATS)
- (24) PAINT ACCESSIBILITY SYMBOL PER SPPWC STD PLAN 171-0
- (25) PAINT 4 INCH WIDE, BLUE (2 COATS) PARKING STRIPE & PATH OF TRAVEL PER SPPWC STD PLAN 180-0
- (28) FURNISH & INSTALL TELESAR POST & 24" STOP SIGN (R1-1). (MINIMUM 7' FROM GROUND)
- (29) REMOVE EXISTING SIGN & POST
- (30) REMOVE EXISTING SIGN.
- (31) FURNISH AND INSTALL BLUE REFLECTIVE PAVEMENT MARKER.
- (32) FURNISH & INSTALL 24" RIGHT TURN (W1-1R)
- (33) FURNISH & INSTALL 24" RIGHT TURN (W1-1L)
- (34) FURNISH & INSTALL 12" X 18" NO PARKING - FIRE LANE SIGN

NOTE

ALL PAINT INSTALLED IN TWO COATS, 7 DAYS BETWEEN COATS.

SIGN LEGEND



PLANS PREPARED BY:

ONWARD ENGINEERING

300 S. HARBOR BLVD., SUITE 814
ANAHEIM, CA 92805
T: (714) 533-3050
F: (714) 808-1270

REVISIONS	
NO.	DESCRIPTION
1	
2	
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4	

CITY OF LA HABRA

PARK LA HABRA MOBILE HOME PARK AND
VIEW PARK MOBILE HOME ESTATES PARK
STREET IMPROVEMENTS - PROJECT NO. 3-R-17
STRIPING PLAN - PARK LA HABRA

RECOMMENDED BY

DATE

APPD BY

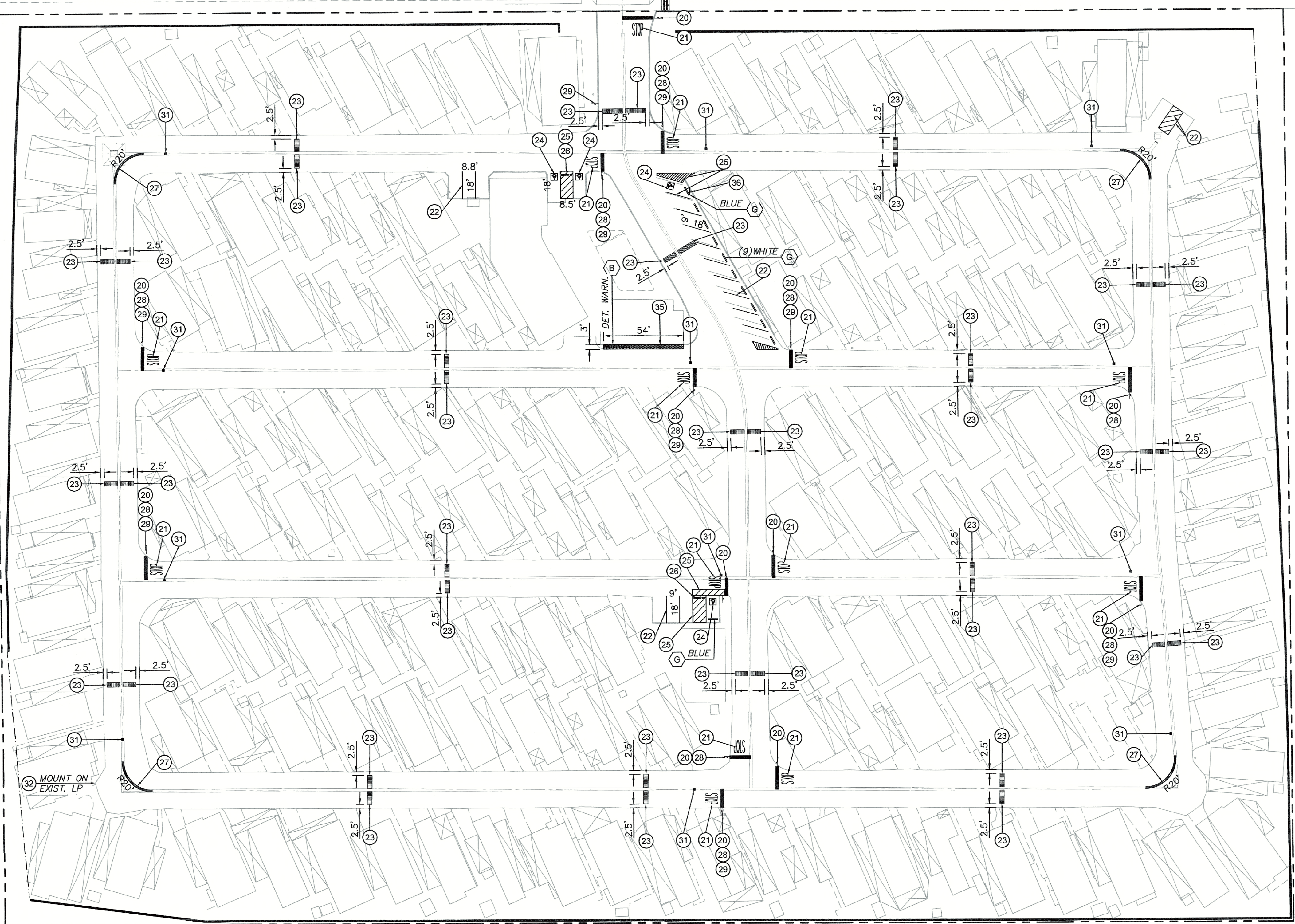
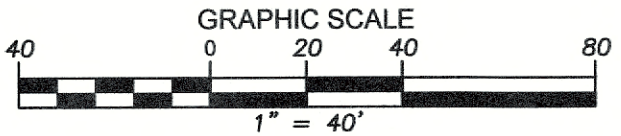
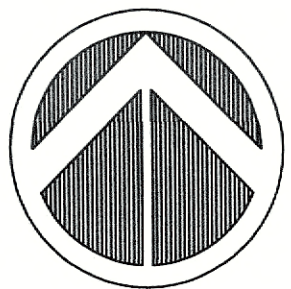
CITY ENGINEER

DATE: 7-7-2021

DWG. NO. I-D-512

SHEET 7 OF 8 SHEETS

VIEW PARK MOBILE HOME ESTATES PARK



DISPOSITION NOTES:

- (B) REMOVE, HAUL AWAY & DISPOSE (ITEM AS NOTED)
- (G) REMOVE, SALVAGE AND REPLACE EXISTING WHEEL STOPS

STRIPING NOTES

- (20) PAINT 12 INCH LIMIT LINE PER CALTRANS STD. A24E
- (21) PAINT "STOP" PAVEMENT MARKING WORD PER CALTRANS STD. A24D
- (22) PAINT 4 INCH WIDE, WHITE (2 COATS) PARKING STRIPE PER SPPWC STD PLAN 180-0
- (23) PAINT SPEED HUMP WHITE (2 COATS)
- (24) PAINT ACCESSIBILITY SYMBOL PER SPPWC STD PLAN 171-0
- (25) PAINT 4 INCH WIDE, BLUE (2 COATS) PARKING STRIPE & PATH OF TRAVEL PER SPPWC STD PLAN 180-0
- (26) PAINT WHITE "NO PARKING" PAVEMENT MARKING WORDS
- (27) PAINT DOUBLE YELLOW PER SPPWC STD. 170-0, DETAIL 22.
- (28) FURNISH & INSTALL TELESAR POST & 24" STOP SIGN (R1-1). (MINIMUM 7' FROM GROUND)
- (29) REMOVE EXISTING SIGN & POST
- (31) FURNISH AND INSTALL BLUE REFLECTIVE PAVEMENT MARKER.
- (32) FURNISH & INSTALL 24" RIGHT TURN (W1-1R)
- (35) REMOVE EXISTING, FURNISH & INSTALL NEW DETECTABLE WARNING TRUNCATED DOMES (YELLOW) PER SPPWC STD. 111-5.
- (36) FURNISH & INSTALL DISABLED-ACCESSIBLE PARKING SIGN AND POST PER SPPWC STD. 180-0.

NOTE

ALL PAINT INSTALLED IN TWO COATS, 7 DAYS BETWEEN COATS.

SIGN LEGEND



R1-1



W1-1(R)



DISABLED ACCESSIBLE PARKING SIGN



PLANS PREPARED BY:
ONWARD ENGINEERING
300 S. HARBOR BLVD., SUITE 814
ANAHEIM, CA 92805
T: (714) 533-3050
F: (714) 808-1270

REVISIONS		
REV	DATE	DESCRIPTION
1		
2		
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CITY OF LA HABRA

PARK LA HABRA MOBILE HOME PARK AND
VIEW PARK MOBILE HOME ESTATES PARK
STREET IMPROVEMENTS - PROJECT NO. 3-R-17
STRIPING PLAN - VIEW PARK

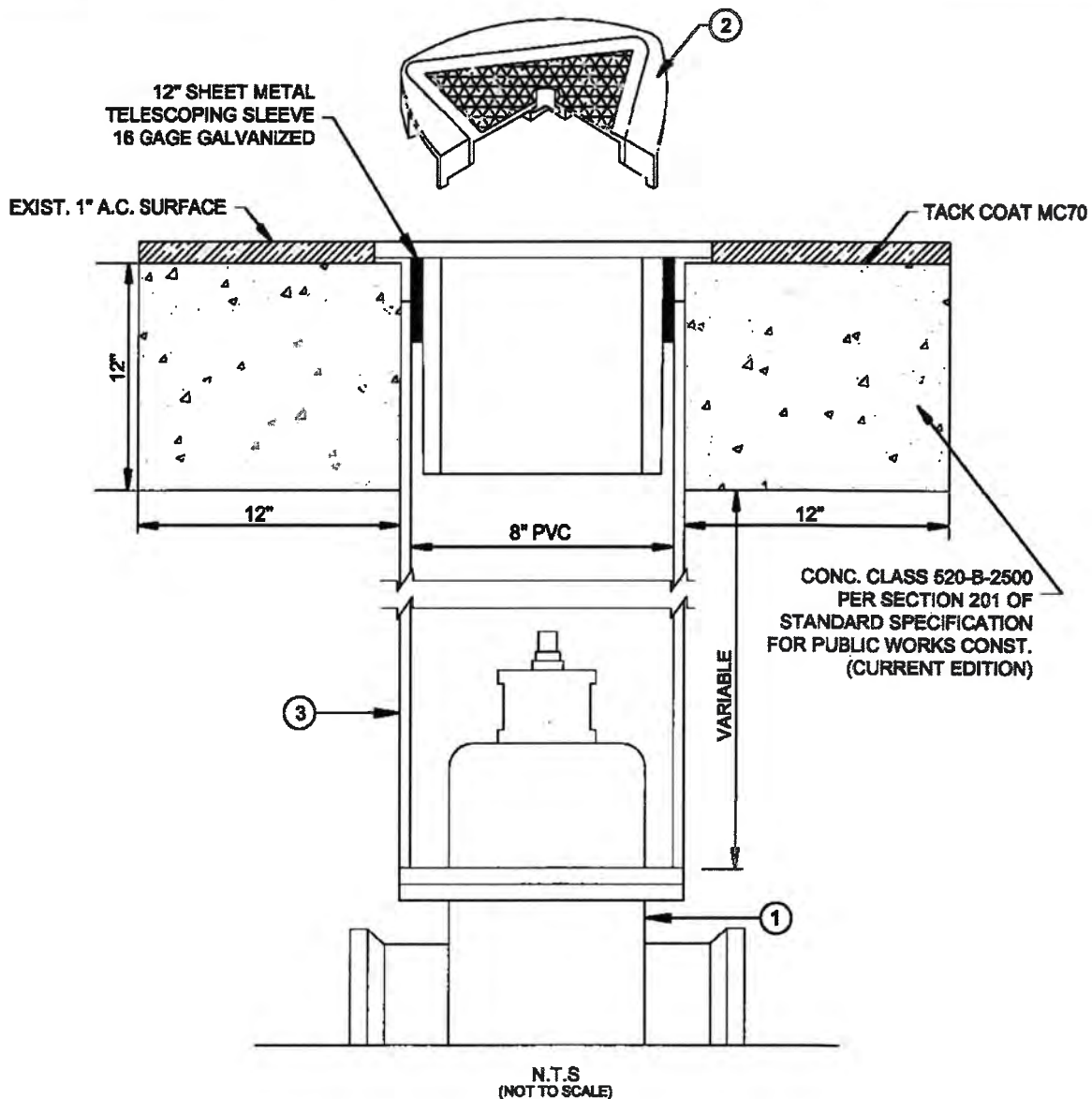
RECOMMENDED BY
DATE

APPROVED BY
CITY ENGINEER
DATE: 7-7-2021

DWG. NO. I-D-512
SHEET 8 OF 8 SHEETS

APPENDIX “B”

STANDARD PLANS



CONSTRUCTION ITEMS / MATERIALS LIST		
NO.	SIZE AND DESCRIPTION	MANUFACTURER
①	GATE VALVE, RESILIENT WEDGE, S.S. TRIM, MJ OR FLG-OPTION	M&H, KENNEDY OR APPROVED EQUAL
②	VALVE BOX FRAME & COVER, C.I.	BROOKS 4TT FOR TRAFFIC USE OR EQUAL
③	PVC PIPE, 8", SCHEDULE 40	

DATE	REV.	DESCRIPTION

CITY OF LA HABRA STANDARD VALVE BOX INSTALLATION



APPROVED: *Christopher J. Delmonico*

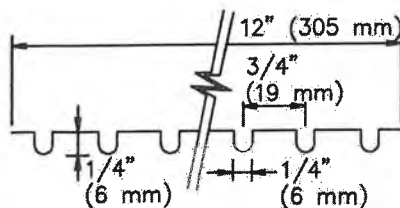
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STANDARD DETAIL W-4

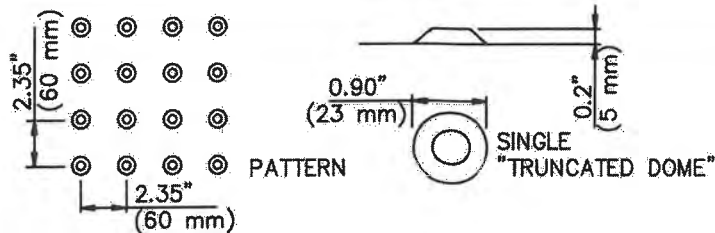
20

WORD MARKINGS			
ITEM	f + 2	ITEM	f + 2
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16

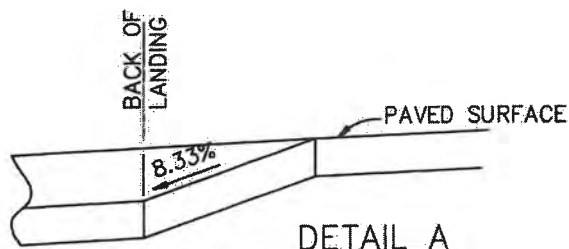




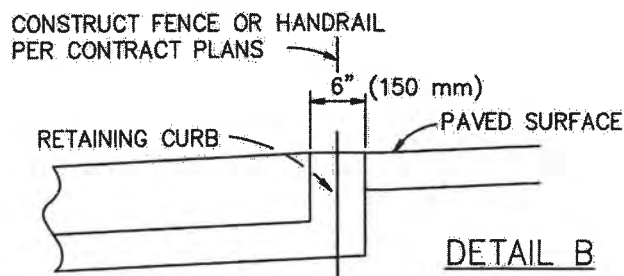
GROOVING DETAIL



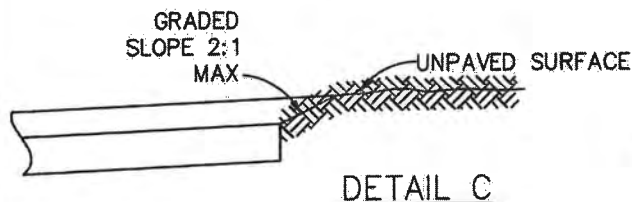
DETECTABLE WARNING DETAIL



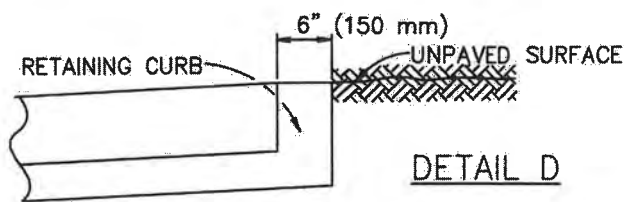
DETAIL A



DETAIL B



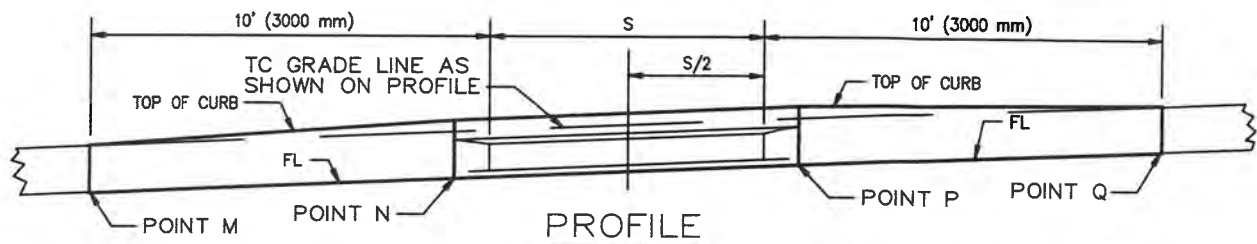
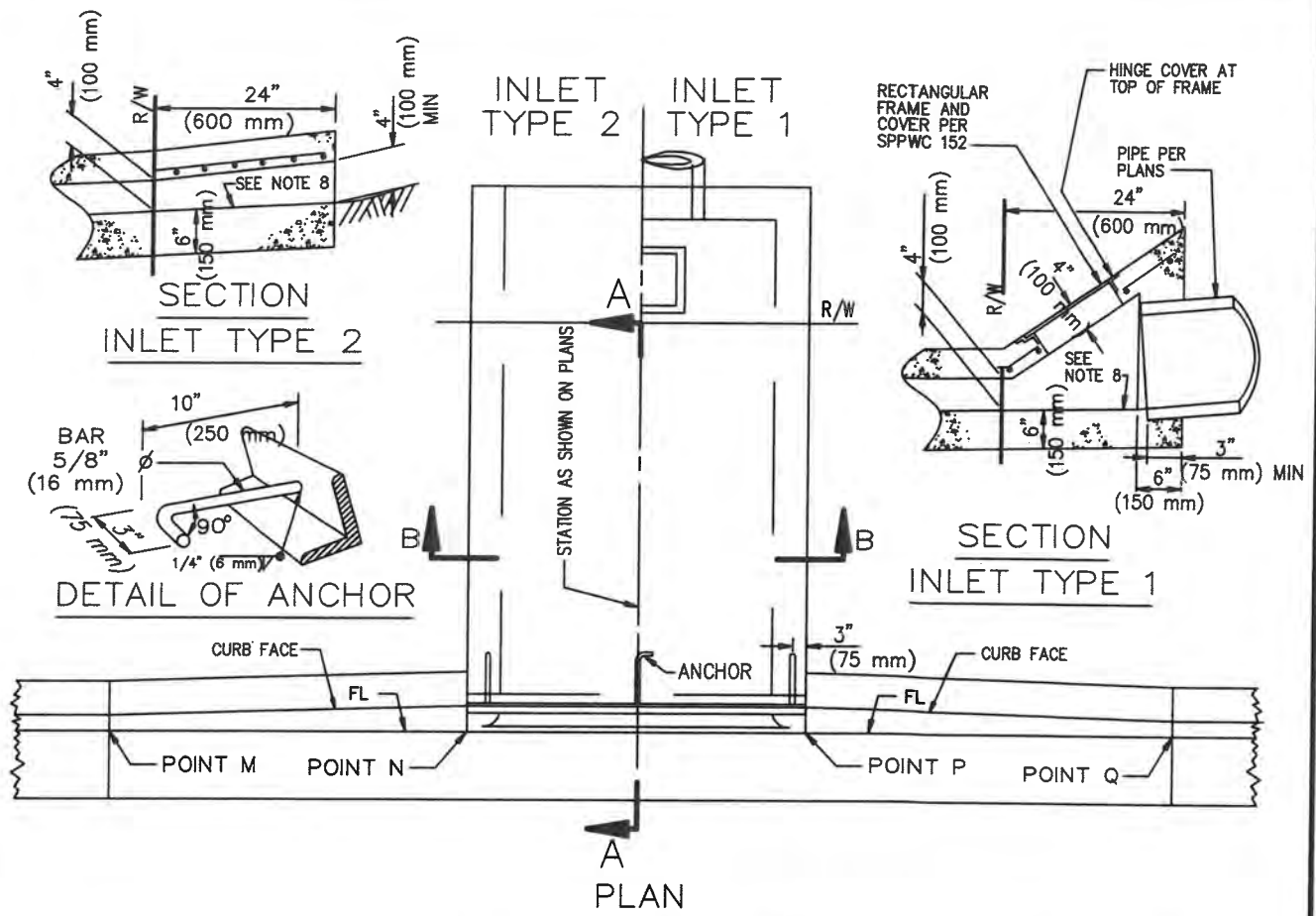
DETAIL C



DETAIL D

GENERAL NOTES:

1. CONCRETE SHALL BE CLASS 520-C-2500 (310-C-17) CONFORMING TO SSPWC 201-1.1.2 AND SHALL BE 4" (100 mm) THICK.
2. THE RAMP SHALL HAVE A 12" (305 mm) WIDE BORDER WITH 1/4" (6 mm) GROOVES APPROXIMATELY 3/4" (19 mm) OC. SEE GROOVING DETAIL.
3. THE RAMP SURFACE SHALL HAVE A TRANSVERSE BROOMED SURFACE TEXTURE CONFORMING TO SSPWC 303-1.9.
4. USE DETAIL "A" OR "B" IF EXISTING SURFACE BEHIND LANDING IS PAVED.
5. USE DETAIL "C" OR "D" IF EXISTING SURFACE BEHIND LANDING IS UNPAVED.
6. R = 3' (900 mm) UNLESS OTHERWISE SHOWN ON PLAN. SEE SHEET 7.
7. ANGLE = $\Delta/2$ UNLESS OTHERWISE SHOWN ON PLAN.
8. CONSTRUCT DETECTABLE WARNING SURFACE PER DETAIL THIS SHEET. MATERIALS SHALL BE PER CONTRACT DOCUMENTS.



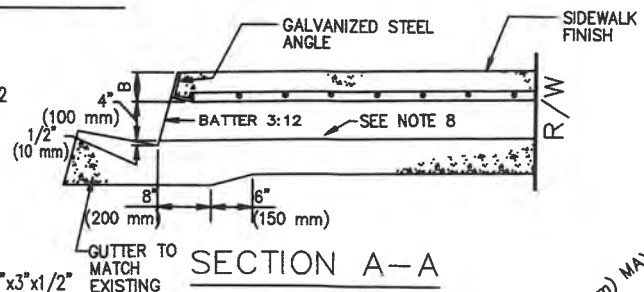
S, INCHES (mm)	J BAR SPACING
12" (300)	7" (240)
18" (450)	7" (240)
24" (600)	7" (240)
30" (750)	7" (240)
36" (900)	7" (240)
42" (1050)	6" (210)
48" (1200)	5" (180)
54" (1350)	6-1/2" (225)
60" (1500)	5" (180)
66" (1650)	4" (180)
72" (1800)	3-1/2" (120)

FOR S = 30" (750 mm) AND LESS, USE 2 ANCHORS. OTHERWISE, USE 3 ANCHORS.

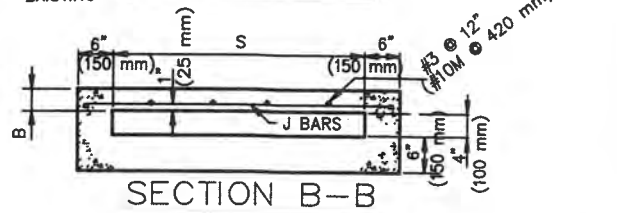
FOR S = 48" (1200 mm) AND LESS, B = 3" (75 mm) USE 2-1/2"x2"x3/8" (64x51x9.5) GALVANIZED STEEL ANGLE.

OTHERWISE, B = 4" (100 mm). USE 3-1/2"x3"x1/2" (89x76x12.7) GALVANIZED STEEL ANGLE.

J BARS ARE #3 (#10M).



SECTION A-A



SECTION B-B

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

PROMULGATED BY THE
PUBLIC WORKS STANDARDS INC.
GREENBOOK COMMITTEE
1993
REV. 1996, 2009

PARKWAY DRAIN

USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

STANDARD PLAN

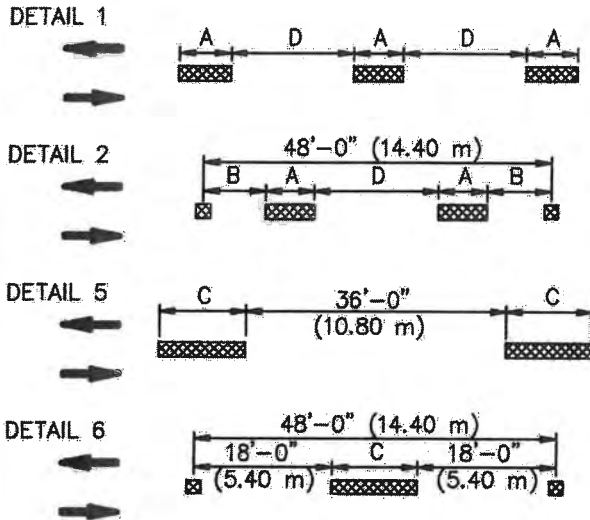
151-2

SHEET 1 OF 2

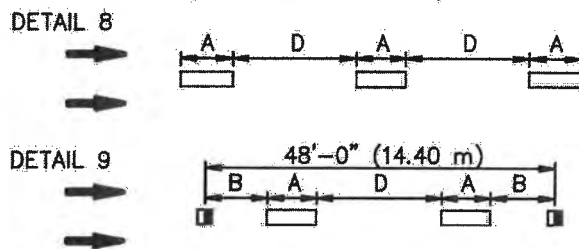
NOTES

1. FLOOR OF BOX SHALL BE TROWELED SMOOTH.
2. IF THE TOE OF SLOPE IS ALLOWED WITHIN THE R/W, INLET TYPE 1 BEGINS AT THE TOE RATHER THAN AT THE R/W LINE.
3. FOR OPEN DITCH (TYPE 2), THE 24" (600 mm) EXTENSION BEYOND THE R/W LINE IS NOT REQUIRED WHEN BACK OF WALK IS 24" (600 mm) OR MORE FROM THE R/W LINE; HOWEVER, THE PIPE SHALL EXTEND TO THE R/W LINE IN ANY EVENT.
4. TOP OF INLET STRUCTURE (TYPE 1 & 2) SHALL BE FLUSH WITH ADJACENT SURFACE WHERE PRACTICAL.
5. A HEADED STEEL STUD 5/8" x 6-3/8" WITH A 1" HEAD (16 x 160 mm, 25 mm HEAD) ATTACHED BY A FULL PENETRATION BUTT WELD MAY BE USED AS AN ALTERNATE ANCHOR.
6. NORMAL CURB FACE AT POINT M AND Q. CURB FACE IS B + 5" (125 mm) AT POINT N AND P.
7. THE 3" (75 mm) LEG OF THE 5/8" (16 mm) DIA ANCHORS SHALL BE PARALLEL TO THE TOP OF SIDEWALK.
8. SLOPE = 2.0%.

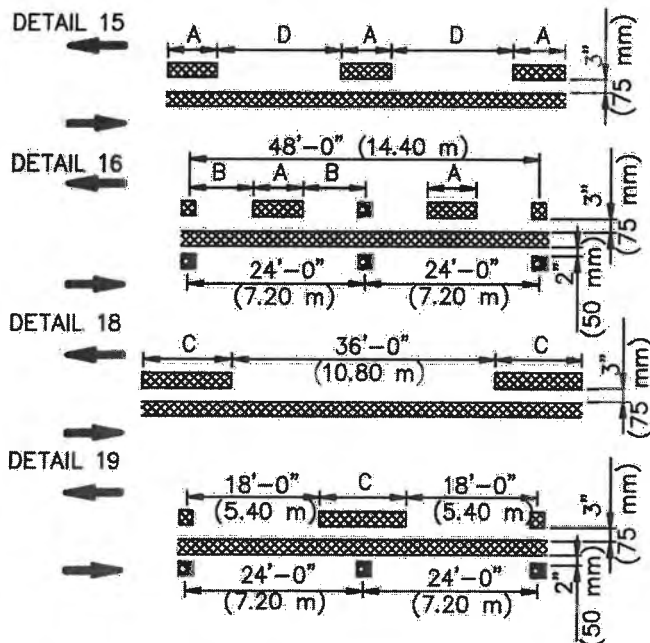
CENTERLINES
(2 LANE HIGHWAYS)



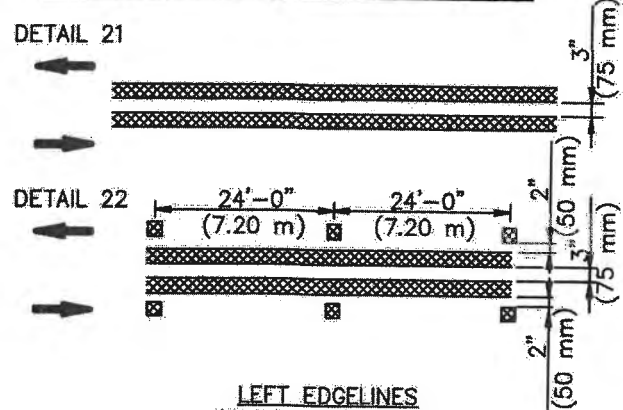
LANELINES
(MULTILANE HIGHWAYS)



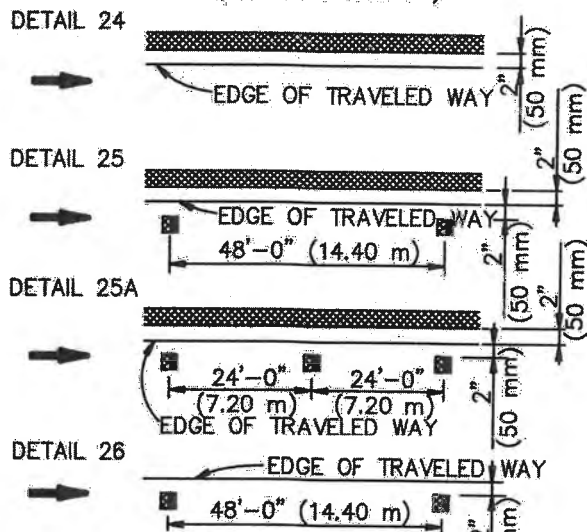
NO PASSING ZONES-ONE DIRECTION



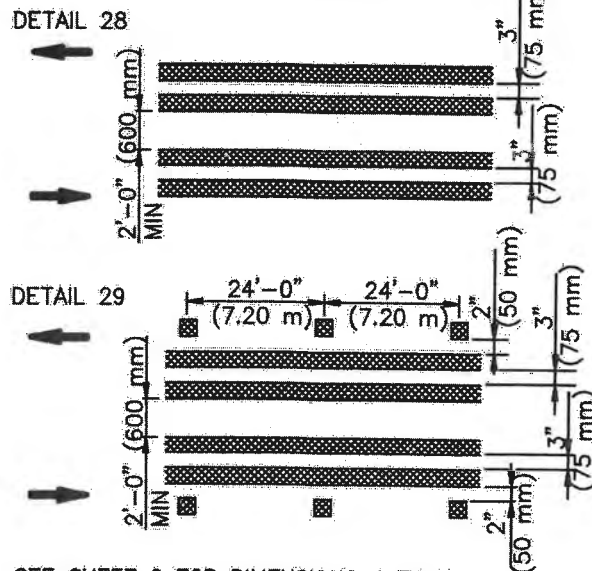
NO PASSING ZONES-TWO DIRECTION



LEFT EDGELINES
(DIVIDED HIGHWAYS)



MEDIAN ISLANDS



SEE SHEET 2 FOR DIMENSIONS A TO D

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

PROMULGATED BY THE
PUBLIC WORKS STANDARDS INC.
GREENBOOK COMMITTEE
2011

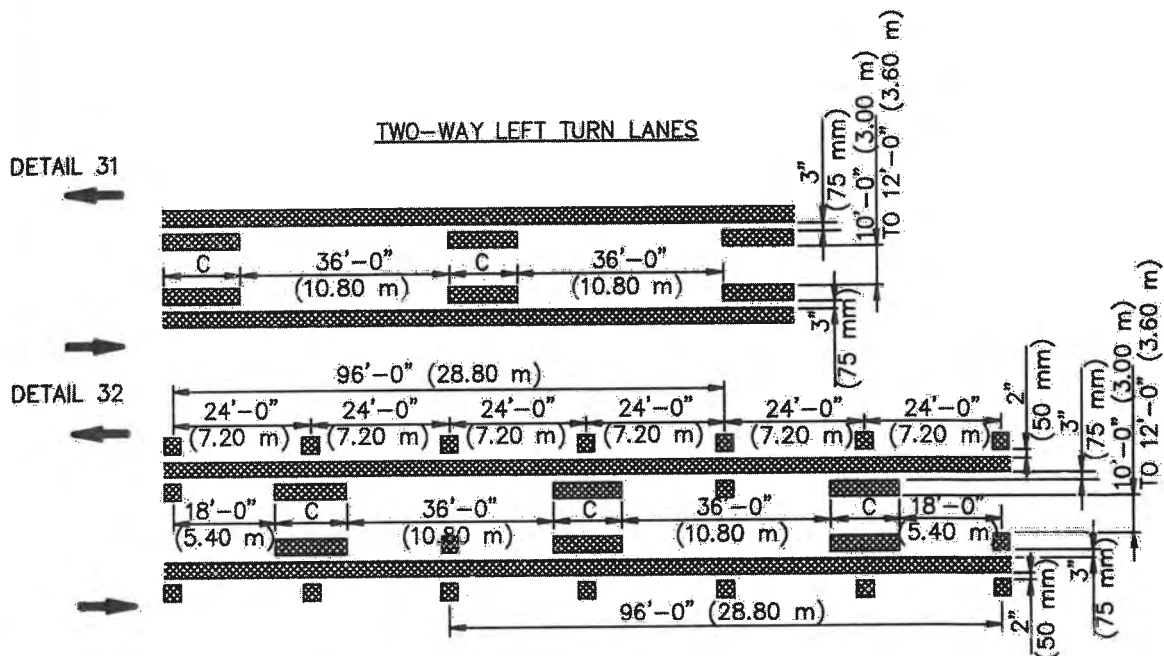
**PAVEMENT MARKERS AND
TRAFFIC LINES**

USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

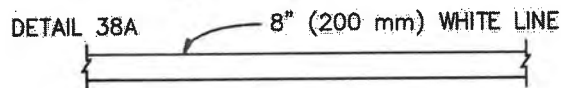
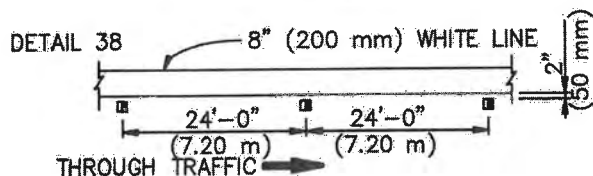
STANDARD PLAN

170-0

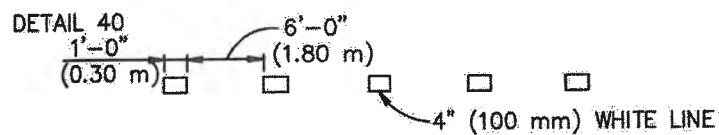
SHEET 1 OF 4



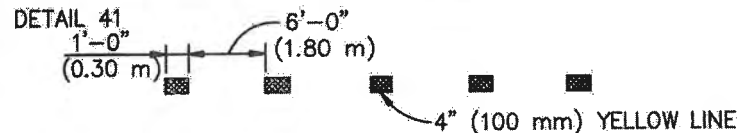
CHANNELIZING LINE



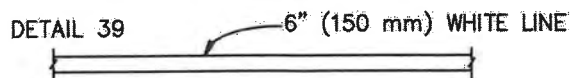
**LANE LINE EXTENSIONS
THROUGH INTERSECTIONS**



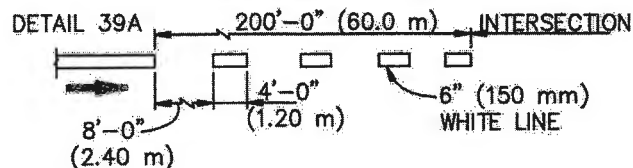
**CENTER LINE EXTENSIONS
THROUGH INTERSECTIONS**



BIKE LANE LINE



**INTERSECTION LINE
BIKE LANE**



DIMENSIONS

- A = 7'-0" (2.10 m)
- B = 8'-6" (2.55 m)
- C = 12'-0" (3.60 m)
- D = 17'-0" (5.10 m)

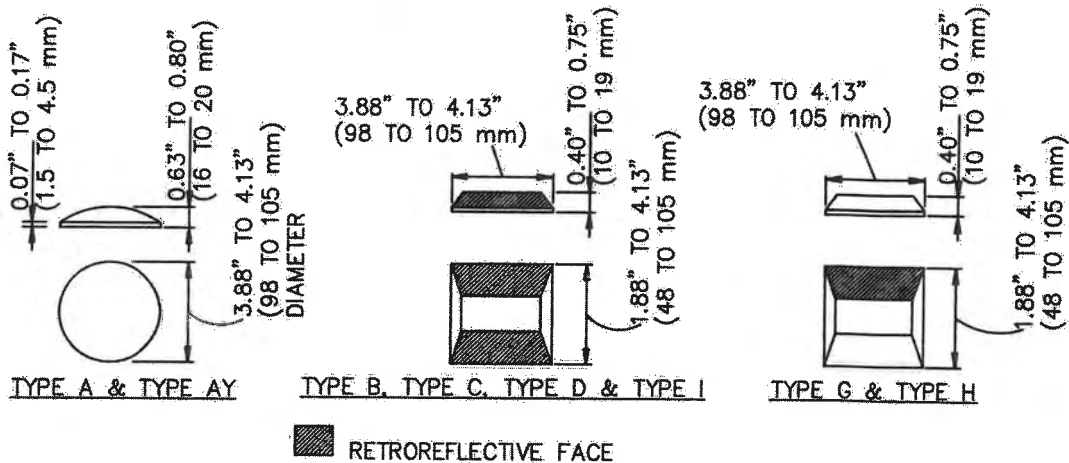
LEGEND

MARKERS

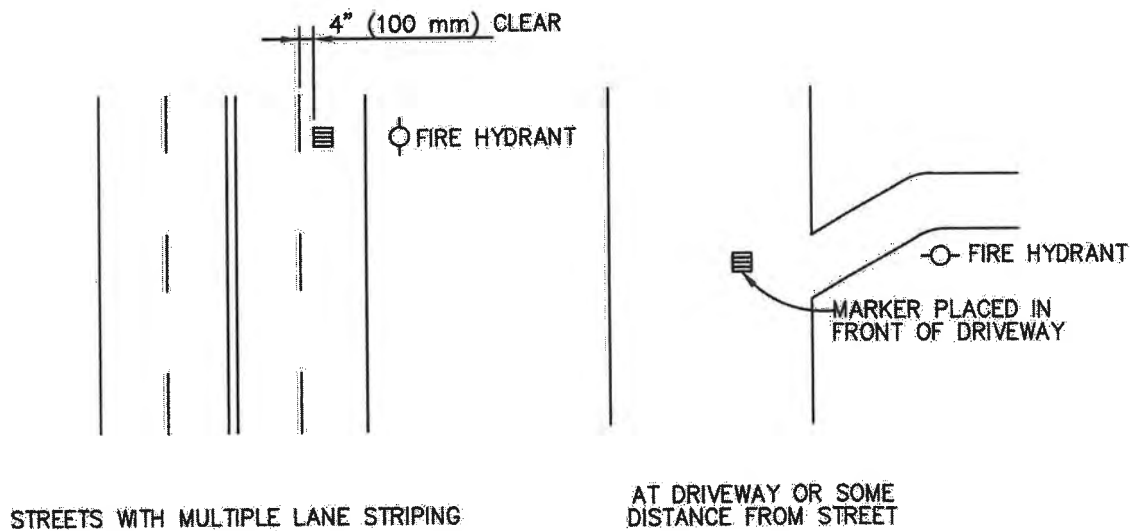
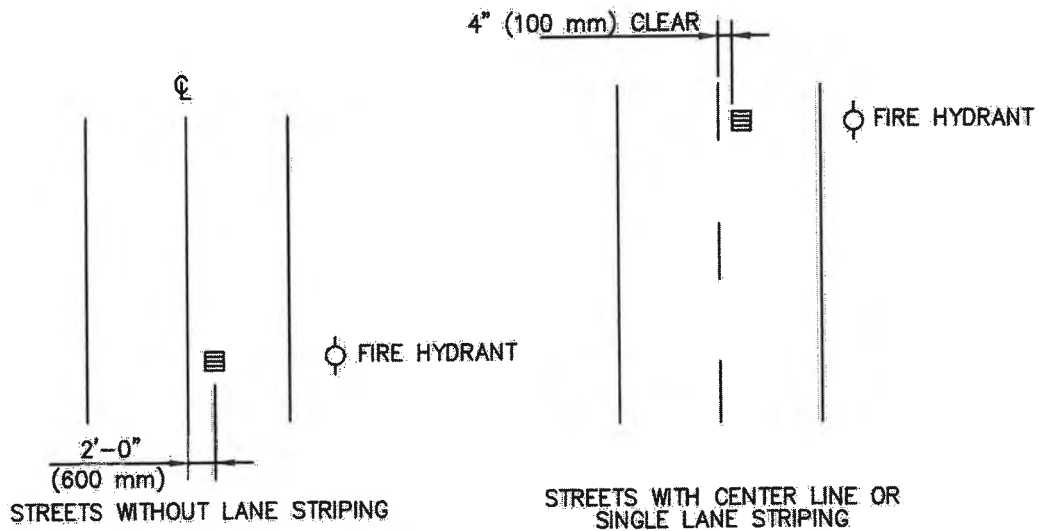
- TYPE A WHITE NON-REFLECTIVE
- ⊗ TYPE AY YELLOW NON-REFLECTIVE
- TYPE B CLEAR TWO-WAY RETROREFLECTIVE
- ▤ TYPE RED / CLEAR RETROREFLECTIVE
- ▦ TYPE D YELLOW TWO-WAY RETROREFLECTIVE
- ▧ TYPE G CLEAR ONE-WAY RETROREFLECTIVE
- ▨ TYPE H YELLOW ONE-WAY RETROREFLECTIVE
- ▩ TYPE I BLUE TWO-WAY RETROREFLECTIVE

LINES

- ▬ 4" WHITE
- ▨ 4" YELLOW
- ➔ DIRECTION OF TRAVEL



MARKER DETAILS



FIRE HYDRANT MARKERS

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

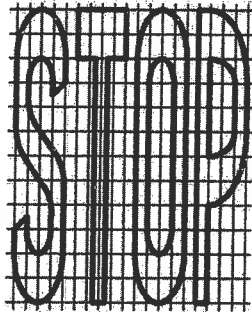
**PAVEMENT MARKERS AND
TRAFFIC LINES**

STANDARD PLAN

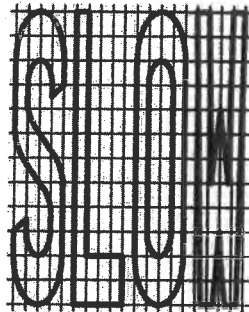
170-0

SHEET 4 OF 4

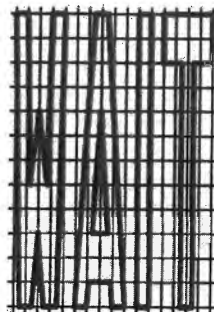
4" x 8" GRID
(100 x 200 mm)



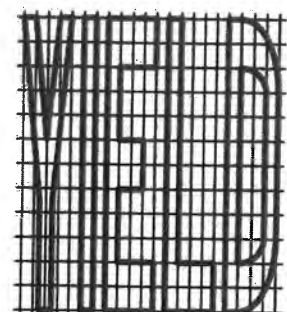
A=22 FT² (2.04 m²)



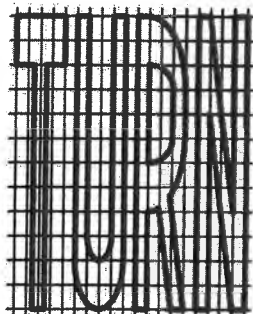
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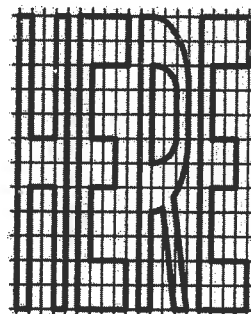
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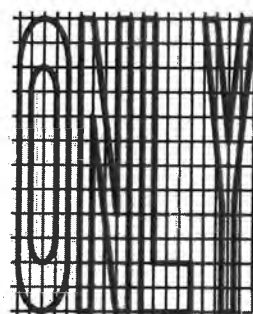
A=24 FT² (2.23 m²)



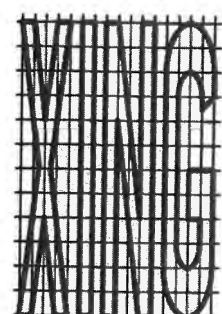
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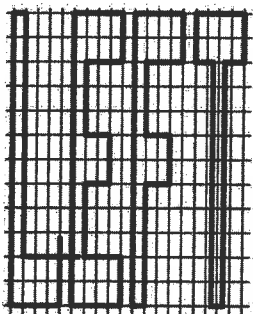
A=26 FT² (2.42 m²)



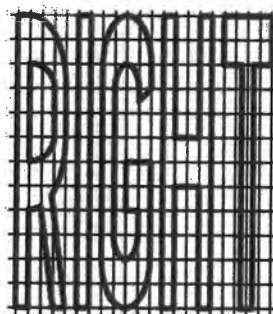
A=22 FT² (2.04 m²)



A=21 FT² (1.95 m²)



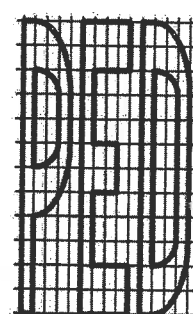
A=19 FT² (1.77 m²)



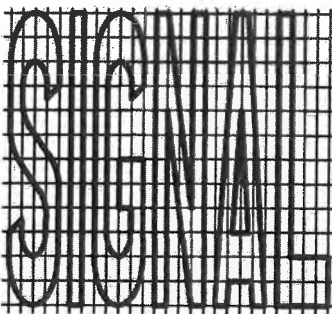
A=26 FT² (2.42 m²)



A=16 FT² (1.49 m²)



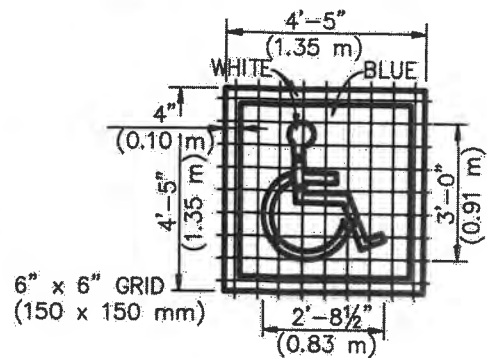
A=18 FT² (1.67 m²)



A=32 FT² (2.97 m²)



A=14 FT² (1.30 m²)



A(WHITE)=9 FT² (0.84 m²)
A(BLUE)=14 FT² (1.30 m²)

DISABLED PERSONS PARKING SYMBOL

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

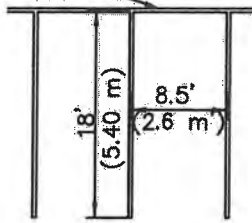
PAVEMENT MARKINGS
ARROWS AND SYMBOLS

STANDARD PLAN

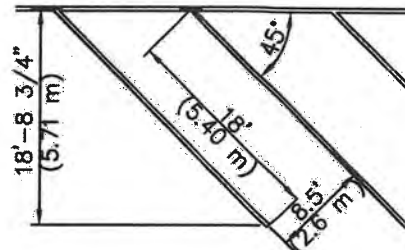
171-0

SHEET 3 OF 5

WHEN REQUIRED—
SEE PLANS

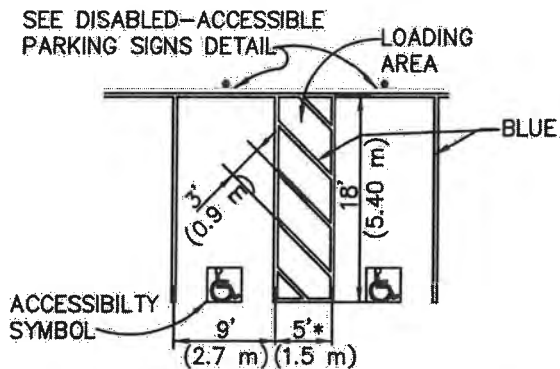


STANDARD SPACE DETAIL

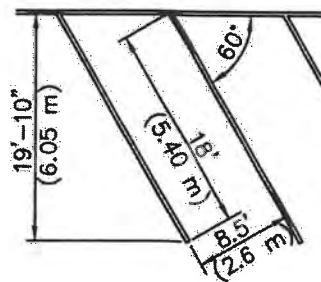


45° DIAGONAL SPACE DETAIL

SEE DISABLED-ACCESSIBLE
PARKING SIGNS DETAIL



ACCESSIBLE SPACE DETAIL



60° DIAGONAL SPACE DETAIL

* LOADING AREA SHALL BE
8' (2.40 m) WIDE ADJACENT TO
VAN ACCESSIBLE PARKING
SPACES — SEE PLANS.

NOTES:

1. STRIPING SHALL BE 4" (100 mm) WIDE WHITE
NON-REFLECTORIZED PAINT, EXCEPT AS SHOWN.
PAVEMENT MARKINGS SHALL ALSO BE
NON-REFLECTORIZED PAINT.

2. SIGNS SHALL CONFORM TO SECTION 56, SIGNS,
OF THE STATE STANDARD SPECIFICATIONS, AND
THE STATE SPECIFICATIONS FOR ALUMINUM
SINGLE SHEET PANEL SIGNS.

3. SEE LOCAL ZONING CODE FOR REQUIREMENTS
FOR USAGE OF COMPACT AND ACCESSIBLE PARKING
SPACES AND LOT LAYOUT.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

PROMULGATED BY THE
PUBLIC WORKS STANDARDS INC.
GREENBOOK COMMITTEE
2011

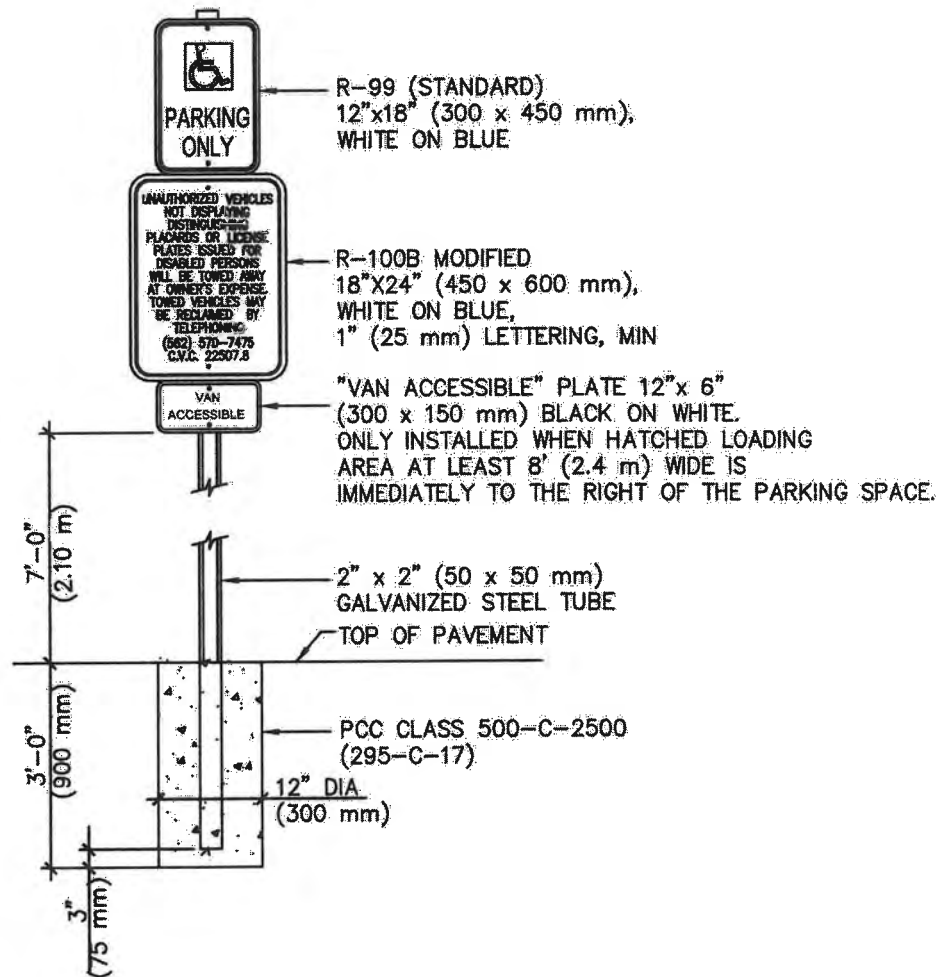
PARKING LOT STRIPING & SIGNING

USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

STANDARD PLAN

180-0

SHEET 1 OF 2



DISABLED-ACCESSIBLE PARKING SIGNS
 Note: Not for street use

APPENDIX “C”

GEOTECHNICAL REPORTS



GeoMat Testing Laboratories, Inc.

Soil Engineering, Environmental Engineering, Materials Testing, Geology

August 19, 2019

Project No. 19094-01

TO: Onward Engineering
300 South Harbor Boulevard
Suite 814
Anaheim, California 92805

ATTENTION: Mr. Justin Smeets

SUBJECT: Preliminary Conventional Pavement Design Report, Park La Habra Mobile Home Park, 1731 W. Lambert Road, and View Park Mobile Home Estates Park, 1750 W. Lambert Road, La Habra, California

In accordance with your authorization, GeoMat Testing Laboratories, Inc. (GeoMat) is pleased to present our preliminary soil investigation report for the proposed pavement improvements at 1731 and 1750 W. Lambert Road, in the City of La Habra, California. This report is in fulfillment of our proposal dated April 22, 2019 and your subsequent authorization. The accompanying report presents a summary of our findings, recommendations, and limitation of work for the proposed site improvements.

The primary purpose of this investigation and report is to sample existing subgrade soil and provide pavement design recommendations based on the subgrade R-value.

If you should have any questions regarding this report, please do not hesitate to call our office. We appreciate this opportunity to be of service.

Submitted for GeoMat Testing Laboratories, Inc.

Haytham Nabils, GE 2375 (exp 12/31/20)
Project Engineer



Art Martinez
Staff Engineer

Distribution: (3) Addressee

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ATTACHMENTS:

Figure 1	Site Location Map
Plate 1	Exploratory Boring Location Map

APPENDIX:

Appendix A	References
Appendix B	Geotechnical Boring Logs
Appendix C	Laboratory Test Results
Appendix D	General Earthwork and Grading Specifications

1 INTRODUCTION

1.1 Scope of Work

- Mark borehole locations.
- Obtain a permit from City.
- Call USA to mark utilities.
- Provide traffic control in accordance with the Watch Manual.
- Core six locations.
- Collect bulk soil samples for moisture, classification, and R-values
- Conduct laboratory testing to include, classification, in-place moisture of subgrade, and R-value.
- Prepare a geotechnical pavement report. The report will include recommendations for new pavement section.

1.2 Existing Site Conditions

The subject site is composed of two mobile home parks; the Park La Habra mobile home park located at 1731 W. Lambert Road; and View Park Mobile Home Estates park located at 1750 W. Lambert Road, in the City of La Habra, California. The geographical relationship of the site and surrounding vicinity is shown on the Site Location Map, Figure 1.

The sites are currently operated mobile home parks with existing AC pavement drive lanes. Concrete ribbon gutters are located near centerline of the drive lanes throughout the mobile home parks.

1.3 Proposed Development

We understand that the mobile home park will undergo new pavement improvements. No other details are available for the improvement.

2 SUMMARY OF GEOTECHNICAL CONDITIONS

2.1 Field Work

Six exploratory boreholes (locations chosen by client) were excavated up to 5 feet below ground surface on July 31, 2019 utilizing a coring rig equipped with a 4-inch diameter bit, to obtain access to the cross section of the existing pavement material and subgrade soils for observations, soil sampling, and pavement section measurement. The asphalt concrete pavement and base material thicknesses were measured, and soil samples were obtained from the selected locations for select laboratory testing.

The geotechnical boring logs are presented in Appendix B and may include a description and classification of each stratum, sample locations, blow counts, groundwater conditions encountered during drilling, results from selected types of laboratory tests, and drilling information.

2.2 Existing Subgrade Conditions

In general, the existing pavement section consists of 4 to 6 inches of AC pavement over 0 to 4 inches of aggregate base. The existing subgrade soil is generally classified as sandy lean clay. Petromat reinforcement was encountered in all the AC pavement samples that were cored. The following table represents our findings from the subsurface explorations.

SUBSURFACE FINDINGS	EXPLORATORY BOREHOLE					
	B-1	B-2	B-3*	B-4	B-5	B-6
Existing Pavement Thickness [in]	6	6	4	4	7	6
Existing Base Aggregate Thickness [in]	4	3	4	2	1	0
Petromat Fabric in Pavement	Yes	Yes	Yes	Yes	Yes	Yes
Depth to Petromat (Below Pavement Surface) [in]	2.5	2.0	1.5	2.5	1.5	1.75
Subgrade Soil Classification (USCS)	CL	CL	CL	CL	SC	CL
In-Situ Moisture Content (%)	25	18	19	18	18	22
R-Value	0	--	--	--	0	0

*The pavement section encountered at exploratory borehole B-3 consisted of 4" AC pavement over 2" old crumbling AC pavement or AC grindings over 2" aggregate base. For this section, we indicated in the above table the old crumbling AC pavement as aggregate base.

In exploratory borehole B-5, moderate amounts of caliche was noted throughout the boring. In general, soils containing high levels of caliche content are not considered suitable for bearing material or compacted backfill, depending on the conditions encountered during excavation. This should be determined in the field during site excavation.

2.2.1 Caliche Content

Caliche is a soil containing residually deposited chemicals. Caliche occurs in areas of high evaporation rates, typically in desert areas. Evaporation of subsurface water results in chemicals being deposited in the upper layers of soil.

Some caliche soils are extremely hard, like soft limestone. Other caliche materials are more variable and only moderately hard. In some areas where caliche is hard, it is difficult to excavate.

A common error in handling caliche is mis-determination of the soil moisture content. The standard process for moisture content determination in addition to drying a sample drives off water of hydration of the lime and similar components of the caliche and results in an incorrect assessment of the soil moisture. Also, caliche characteristically loses strength on wetting.

2.3 Groundwater

Groundwater study is not within the scope of this work. Groundwater was not encountered in any of the borings excavated up to 5 feet below ground surface. Groundwater is not expected to affect the proposed development.

The California Department of Conservation, seismic hazard report for the La Habra Quadrangle indicates a depth to groundwater of 10' in the immediate vicinity of the site. The 10' groundwater contour appears to follow the margins of the alluvial soil located just west of the subject site.

Please note that the potential for rain or irrigation water locally seeping through from elevated areas and showing up near grades cannot be precluded. Our experience indicates that surface or near-surface groundwater conditions can develop in areas where groundwater conditions did not exist prior to site development, especially in areas where a substantial increase in surface water infiltration results from landscape irrigation. Fluctuations in perched water elevations are likely to occur in the future due to variations in precipitation, temperature, consumptive uses, and other factors including mounding of perched water over bedrock. Mitigation for nuisance shallow seeps moving from elevated lower areas will be needed if encountered. These mitigations may include subdrains, horizontal drains, toe drains, french drains, heel drains or other devices.

2.4 Laboratory Testing

Laboratory tests were performed on selected soil samples. The tests consisted primarily of in-situ moisture content, sieve analysis, Atterberg limits, and R-value testing. Soil classifications are in conformance with the Unified Soil Classifications System (USCS), as outlined in the Classification and Symbols Chart (Appendix B). A summary of our laboratory testing, ASTM designation, and graphical presentation of test results is presented in Appendix C.

2.4.1 Moisture Content

The field moisture contents, as a percentage of the dry weight of the soils, were determined by weighing samples before and after oven drying. The analyses were performed in accordance with ASTM Methods D2216. The results of these determinations are shown on the boring logs in Appendix B.

2.4.2 Grain Size Distribution

Sieve analysis tests were performed on representative soil samples to quantitatively determine the grain size distribution of the site soils and to assist in their classification. Test procedures were in general accordance with ASTM Test Method D422.

2.4.3 Atterberg Limits

Atterberg Limits was performed on a representative soil sample to determine the plasticity of fine-grained soils and to assist in their classification. The test procedures were performed in accordance with ASTM D4318.

2.4.4 R-Value Tests

R-value tests were performed on selected samples of surficial earth material. The test was performed in accordance with standard test method ASTM D2844 or CT-301.

3 RECOMMENDATIONS

3.1 Site Preparation

3.1.1 Subgrade Uniformity

Excavation/grading should be in accordance with our General Earthwork and Grading Specifications (Appendix D).

The subgrade for pavement support must be firm, unyielding, and uniform with no abrupt horizontal changes in degree of support. The subgrade soil should be uniform materials and density. Soft spots, if encountered, should be excavated and recompact with the same type of soil as found in adjacent subgrade. The upper 12-inches of subgrade soil (below proposed subgrade elevation) should be scarified, moisture conditioned (dried or moistened) to near optimum moisture content and compacted to at least 95 percent of the maximum dry density as determined by ASTM D 1557 prior to paving.

3.1.2 Aggregate Base

The aggregate base should conform to Caltrans Class 2 Base or the Standard Specifications for Public Works for Crushed Miscellaneous Base, should be firm and unyielding, and without pumping conditions prior to placement of concrete. Aggregate base should be compacted to at least 95 percent of the maximum dry density as determined by ASTM D1557.

3.1.3 Compacted Fills/Imported Soils

Any soil to be placed as fill, whether presently onsite or import, should be approved by the soil engineer or his representative prior to their placement. All onsite soils to be used as fill should be cleansed of any roots, or other deleterious materials. Cobbles and boulders, larger than 6-inches in diameter should not be placed in the vicinity of foundations and utility lines trenches.

All fills should be placed in 6- to -8 inch loose lifts, thoroughly watered, or aerated to near optimum moisture content, mixed and compacted to at least 90 percent relative compaction. This is relative to the maximum dry density determined by ASTM D1557 Test Method.

Any imported soils should be sandy (preferably USCS "SM" or "SW", and very low in expansion potential) and approved by the soil engineer. The soil engineer or his representative should observe the placement of all fill and take sufficient tests to verify the moisture content and the uniformity and degree of compaction obtained.

3.1.4 Trench Backfill

All utility trenches and retaining wall backfills should be mechanically compacted to the minimum requirements of at least 90 percent relative compaction. Onsite soils derived from trench excavations can be used as trench backfill except for deleterious materials. Imported material with sand equivalent greater than 30 may be utilized for pipe bedding and shading. Pipe bedding should be required to provide uniform support for piping. Excavated material from footing trenches should not be placed in slab-on-grade areas unless properly compacted and tested.

3.2 Tentative Asphalt Pavement

The following recommended pavement section is based on the following assumed Traffic Index and estimated R-value determined from soil samples obtained from exploratory boreholes B-1, B-5, and B-6. The minimum recommended pavement thickness is as follows:

Location	Traffic Index (Assumed)	R-Value	Minimum Recommended Pavement Section	
			AC	AB
Park La Habra Mobile Home Park (1731 W. Lambert Road)	6	0	3.5	14.0
View Park Mobile Home Estates Park (1750 W. Lambert Road)	6	0	3.5	14.0

AC: Asphalt Concrete, AB: Aggregate Base,

Final pavement design recommendations should be based on laboratory test results of representative pavement subgrade soils upon the completion of rough grading.

3.3 Site Drainage

Positive drainage should be provided and maintained for the life of the project around the perimeter of all structures and all foundations toward approved drainage devices. Water, either natural or by irrigation, should not be permitted to pond on pavement. Excessive planter watering should not be permitted in order to prevent water infiltration below the pavements, eroding the subgrade, and/or create subgrade pumping conditions under the wheel loading.

3.4 Additional Services

3.4.1 Plan Reviews

The recommendations provided in this report are based on preliminary information and subsurface conditions as interpreted from limited exploratory trenches at the site. We should be retained to review final grading plans to revise our conclusions and recommendations, as necessary. Professional fees will apply for each review. Our conclusions and recommendations should also be reviewed and verified during site grading and revised accordingly if exposed geotechnical conditions vary from our preliminary findings and interpretations.

3.4.2 Additional Observation and/or Testing

GeoMat Testing Laboratories, Inc. should observe and/or test at the following stages of construction.

- During subgrade preparation, compaction, and placement of aggregate base and asphalt pavement.
- During all trench backfill.
- When any unusual conditions are encountered.

3.4.3 Final Report of Compaction During Grading

A final report of compaction control should be prepared subsequent to the completion of grading. The report should include a summary of work performed, laboratory test results, and the results and locations of field density tests performed during grading.

4 GEOTECHNICAL RISK

The concept of risk is an important aspect of the geotechnical evaluation. The primary reason for this is that the analytical methods used to develop geotechnical recommendations do not comprise an exact science. The analytical tools which geotechnical engineers use are generally empirical and must be used in conjunction with engineering judgment and experience. Therefore, the solutions and recommendations presented in the geotechnical evaluation should not be considered risk-free and, more importantly, are not a guarantee that the interaction between the soils and the proposed structure will perform as planned.

The engineering recommendations presented in the preceding sections constitute GeoMat Testing Laboratories professional estimate of those measures that are necessary for the proposed water line to perform according to the proposed design based on the information generated and referenced during this evaluation, and GeoMat Testing Laboratories experience in working with these conditions.

5 LIMITATION OF INVESTIGATION

This report was prepared for the exclusive use on the new construction. The use by others, or for the purposes other than intended, is at the user's sole risk.

Our investigation was performed using the degree of care and skill ordinarily exercised, under similar circumstances, by reputable Geotechnical Engineers practicing in this or similar locations within the limitations of scope, schedule, and budget. No other warranty, expressed or implied, is made as to the conclusions and professional advice included in this report.

The field and laboratory test data are believed representative of the site; however, soil conditions can vary significantly. As in most projects, conditions revealed during construction may be at variance with preliminary findings. If this condition occurs, the possible variations must be evaluated by the Project Geotechnical Engineer and adjusted as required or alternate design recommended.

This report is issued with the understanding that it is the responsibility of the owner, or his representative, to ensure that the information and recommendations contained herein are brought to the attention of the engineer for the addition and incorporated into the plans, and the necessary steps are taken to see that the contractor and subcontractor carry out such recommendations in the field.

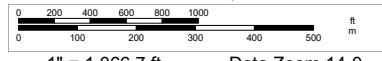
This firm does not practice or consult in the field of safety engineering. We do not direct the contractor's operations, and we cannot be responsible for other than our own personnel on the site; therefore, the safety of others is the responsibility of the contractor. The contractor should notify the owner if he considers any of the recommended actions presented herein to be unsafe.

The findings, conclusions, and recommendations presented herein are based on our understanding of the addition and on subsurface conditions observed during our site work, and are valid as of the present date. However, changes in the conditions of a property can occur with the passage of time, whether they be due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or appropriate standards may occur, whether they result from legislation or the broadening of knowledge.



Figure 1

Scale 1 : 12,800



www.delorme.com

PARK LA HABRA MOBILE HOME PARK

Borehole B-1



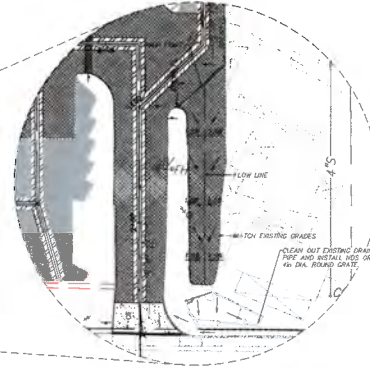
DISPOSITION NOTES:
 ① PROTECT IN PLACE (ITEM AS NOTED)

CONSTRUCTION NOTES

- ① WEED ABATE, DRUM CRACKS, CRACK SEAL / FILL, FURNISH & APPLY TYPE II SLURRY SEAL WITH 2% LATEX
- ② SAW CUT/COLD MILL EXISTING AC PAVEMENT 2" THICK, FURNISH & CONSTRUCT 2" AC (C2 PG 64-10) PAVEMENT
- ③ SAW CUT & REMOVE FULL DEPTH STRUCTURAL SECTION, FURNISH & INSTALL 6" AC (C2 PG 64-10) ON COMPACTED NATIVE/BASE, 2" EACH SIDE
- ④ REMOVE EXISTING PCC PAVEMENT, FURNISH & CONSTRUCT 6" THICK PCC PAVEMENT OVER 4" C&G
- ⑤ REMOVE EXISTING PCC LONGITUDINAL GUTTER, FURNISH & CONSTRUCT 2" WIDE PCC LONGITUDINAL GUTTER PER DETAIL
- ⑥ FURNISH & CONSTRUCT 15" X 15" PCC LOCAL DEPRESSION PER DETAIL
- ⑦ FURNISH & CONSTRUCT ALUMINUM RAINWATER A-2446, 6" WIDE TRENCH DRAIN OR APPROVED EQUAL WITH 4" STEEL CONNECTOR PIPE, LENGTH SHOWN ON PLAN
- ⑧ REMOVE EXISTING PCC PAVEMENT, FURNISH & CONSTRUCT SPPING STD. PLAN 151-2 PARKWAY DRAIN, 54"18" OVER COMPACTED NATIVE
- ⑨ FURNISH & CONSTRUCT CROSS GUTTER PER DETAIL
- ⑩ REMOVE AND RECONSTRUCT AC SPEED HUMP, MATCH EXISTING LOCATIONS
- ⑪ ADJUST WATER VALVE TO GRADE

LEGEND

- WEED ABATE, DRUM CRACKS, CRACK SEAL / FILL, FURNISH & APPLY TYPE II SLURRY SEAL WITH
- SAW CUT/COLD MILL EXISTING AC PAVEMENT 2" THICK, FURNISH & CONSTRUCT 2" AC (C2 PG 64-10) PAVEMENT
- SAW CUT & REMOVE FULL DEPTH STRUCTURAL SECTION, FURNISH & INSTALL 6" AC (C2 PG 64-10) ON COMPACTED NATIVE/BASE, 2" EACH SIDE



SCALE: 1"=20'

Borehole B-2

Borehole B-3

LAMBERT ROAD

GeoMat Testing Laboratories, Inc.
 Exploratory Borehole Location Map
 Plate 1 (Sheet 1)



PLANS PREPARED BY:
ONWARD ENGINEERING
 300 S. HARBOR BLVD., SUITE 814
 ANAHEIM, CA 92805
 T: (714) 533-3050
 F: (714) 806-1270

CITY OF LA HABRA			
PARK LA HABRA MOBILE HOME PARK AND VIEW PARK MOBILE HOME ESTATES PARK STREET IMPROVEMENTS - PROJECT No. S-R-17			
PLAN			
DESIGNED BY:	DRWN BY:	CHECKED BY:	DATE:
DATE:	DATE:	DATE:	DATE:
SHEET 4 OF 7 SHEETS			

④ PROTECT IN PLACE (ITEM AS NOTED)

CONSTRUCTION NOTES

- REMOVE ABATE, GROUT CRACKS, CRACK SEAL / FILL, FURNISH & APPLY TYPE 8 SLURRY SEAL WITH 2% LATEX
- SAFETY AND REMOVE EXISTING ASPHALT BASE, HOT/HE MATERIAL AND FURNISH & CONSTRUCT 3" AC TYPE (C2-PC 64-10) OVER 4" AC TYPE (PC 64-10) FOR C&G C&G.
- SAFETY C&G/OLD MILL EXISTING AC PAVEMENT 3" THICK, FURNISH & CONSTRUCT 3" AC C2 PC 64-10 PAVEMENT.
- SAFETY CUT & REMOVE FULL DEPTH STRUCTURAL SECTION, FURNISH & INSTALL 4" AC (C2 PC 64-10) ON COMPACTED HOT/HE/BASE, 3" EACH SIDE.
- REMOVE EXISTING PC PAVEMENT, FURNISH & CONSTRUCT 6" DPOC PC PAVEMENT OVER 4" GMD.
- REMOVE EXISTING PC LONGITUDINAL UTILITY, FURNISH & CONSTRUCT 2" HIDE PC LONGITUDINAL UTILITY PER DETAIL
- FURNISH & CONSTRUCT 15' x 15' FCC LOCAL DEPRESSION PER DETAIL
- FURNISH & CONSTRUCT ALUMINUM DRAIN A-2446, 6" BODIC INSIDE DRAIN OR APPROVED EQUAL WITH 4" SIEZL CONNECTOR PIPE. LENGTH SHOWN ON PLAN.
- REMOVE EXISTING PC SIDEWALK, FURNISH & CONSTRUCT 3" HIDE PC SIDEWALK PER DETAIL
- REMOVE AND RECONSTRUCT AC SPEED HUMP. MATCH EXISTING LOCATIONS.
- ADJUST WATER VALVE TO DRAGE.

LEGEND

	1. METS AGATE, GRIND CRACKS, CRACK SEAL / FILL, FURNISH & APPLY TYPE II SLURRY SEAL WITH
	2. SAWCUT AND REMOVE EXISTING ASPHALT, BASE, NATIVE MATERIAL AND FURNISH & CONSTRUCT 2 INCH 1" AC TYPE (8-10-61) OVER 8" C&G.
	3. SAW CUT/COLD MILL EXISTING AC PREVENT 3" THICK, FURNISH & CONSTRUCT 3" AC (C2 PG 64 PAVEMENT).
	4. SAW CUT & REMOVE FILL DEPTH STRUCTURAL SECTION, FURNISH & INSTALL 6" AC (C2 PG 64-10 ON COMPACTED NATIVE/BASE 2" EACH SIDE.

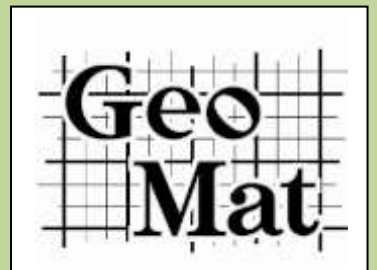
PLANS PREPARED BY:
ONWARD ENGINEERING
300 S. HARBOR BLVD., SUITE 814
ANAHEIM, CA 92805
T: (714) 533-3050
F: (714) 808-1270

PARK LA HABRA MOBILE HOME PARK AND
VIEW PARK MOBILE HOME ESTATES PARK
STREET IMPROVEMENTS - PROJECT No. 3-R-17

PLAN

ADD'N APPROVED BY:	DATE:	DMD. NO.
SUB. NO. (FOR DISBURSER)	DATE	
DATE	DATE	SHEET 5 OF 7 SHEETS

Appendix A



REFERENCES

Onward Engineering "Park La Habra Mobile Home Park and View Park Mobile Home Estates Park, Street Improvements – Project No. 3-R-17 Plan, City of La Habra," Sheets 4 and 5 of 7, Plans Not Dated.

CDMG, "Seismic Hazard Zone Report for the La Habra 7.5-Minute Quadrangle, Los Angeles and Orange Counties, California, 1997.

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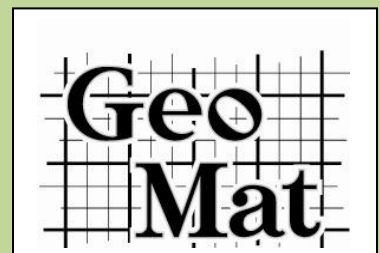
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Robert Day, Geotechnical Engineer's Portable Handbook.

Robert Day, Geotechnical Foundation Handbook.

Appendix B



SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
				GP	POORLY GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
	SAND AND SANDY SOILS	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SP	POORLY GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS, ELASTIC SILTS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: Dual symbols are used to indicate gravels or sand with 5-12% fines and soils with fines classifying as CL-ML. Symbols separated by a slash

RELATIVE DENSITY		CONSISTENCY		UNCONFINED COMPRESSIVE STRENGTH, tsf
SANDS AND GRAVELS	SPT, N	SILTS AND CLAYS	SPT, N	
VERY LOOSE	0 - 4	VERY SOFT	0 - 2	0 - 0.25
LOOSE	4 - 10	SOFT	2 - 4	0.25 - 0.50
MEDIUM DENSE	10 - 30	MEDIUM FIRM	4 - 8	0.50 - 1.00
DENSE	30 - 50	FIRM	8 - 15	1.00 - 2.00
VERY DENSE	50+	VERY FIRM	15 - 30	2.00 - 4.00
		HARD	30+	>4.00

Sampler and Symbol Descriptions



B

Bulk "grab" sample taken from the auger cuttings or excavated soil



S

1.4" I.D./2" O.D. Standard Penetration Test (ASTM D1586) sampler (SPT)



R

2.5" I.D./3" O.D. Modified California Ring Sampler (Ring)



D

2.5" I.D./3" O.D. Dames and Moore Manual Ring Sampler

MOISTURE CONDITION	
DESCRIPTION	CRITERIA
DRY	Absence of moisture, dusty, dry to the touch
MOIST	Damp but no visible water
WET	Visible free water, usually soil is below water table

CONSTITUENT DESCRIPTIONS			
DESCRIPTION	CRITERIA	DESCRIPTION	CRITERIA
TRACE	Less than 5%	SOME	30% to 45%
FEW	5% to 10%	MOSTLY	50% to 100%
LITTLE	15% to 25%		



KEY TO BORING LOGS

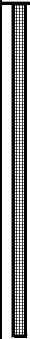
APPENDIX B

PROJECT:		1731 & 1750 W. Lambert Road La Habra, California		Log of Boring B-1		PAGE 1 of 1							
Project No.		19094-01		Boring Location:		See Plate 1							
Drill Company/Rig		GeoMat/Manual		Date Started:		7/31/2019							
Drilling Method:		Hand Auger		Date Finished:		7/31/2019							
Hammer Weight/Drop:		--		Hammer Type:		--							
Sampler(s):		Dames & Moore Sample (D), Bulk Sample (B), Nuclear Gauge Test per ASTM 3017 (N)		LABORATORY TEST DATA									
DEPTH (FT)	SAMPLES				Graphic Log	Classification (USCS)	MATERIAL DESCRIPTION	Moisture Content (%)	Dry Density (pcf)	Fines (%)	Liquid Limit	Plastic Limit	Plast. Index
	Type	Sample	Blows / 6"	SPT "N" Value									
1	B					PAVE	6" AC PAVEMENT PETROMAT AT 2.5" BELOW SURFACE 4" AGGREGATE BASE						
2						CL	SANDY LEAN CLAY tan brown sandy lean clay very moist	25		69			
3							becoming medium to dark brown lean clay moist cohesive						
4													
5													
6							TD = 5.5'						
7													
8													
9													
10													
11													
12													
13													
		This log is part of the report prepared by GeoMat for this project and should be read together with the report. This summary applies only at the location of the exploration and at the time of drilling or excavation. Subsurface conditions may differ at other locations and may change at this location with time. Data presented are a simplification of actual conditions encountered.						PROJECT NO. 19094-01		APPENDIX B			

PROJECT:		1731 & 1750 W. Lambert Road La Habra, California		Log of Boring B-2		PAGE 1 of 1	
Project No.		19094-01		Boring Location:		See Plate 1	
Drill Company/Rig		GeoMat/Manual		Date Started:		7/31/2019	
Drilling Method:		Hand Auger		Date Finished:		7/31/2019	
Hammer Weight/Drop:		--		Hammer Type:		--	
Sampler(s):		Dames & Moore Sample (D), Bulk Sample (B), Nuclear Gauge Test per ASTM 3017 (N)		LABORATORY TEST DATA			
DEPTH (FT)		SAMPLES		MATERIAL DESCRIPTION		Moisture Content (%)	
Type		Blows / 6"		Classification (USCS)		Dry Density (pcf)	
SPT "N" Value		Graphic Log				Fines (%)	
						Liquid Limit	
						Plastic Limit	
						Plast. Index	
1		B		PAVE 6" AC PAVEMENT PETROMAT AT 2" BELOW SURFACE 3" AGGREGATE BASE		18	
2				CL SANDY LEAN CLAY olive brown sandy lean clay moist to very moist			
3				moist cohesive			
4				TD = 4'			
5							
6							
7							
8							
9							
10							
11							
12							
13							
		This log is part of the report prepared by GeoMat for this project and should be read together with the report. This summary applies only at the location of the exploration and at the time of drilling or excavation. Subsurface conditions may differ at other locations and may change at this location with time. Data presented are a simplification of actual conditions encountered.				PROJECT NO. 19094-01 APPENDIX B	

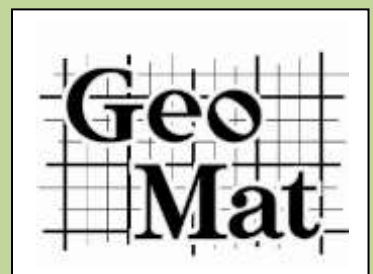
PROJECT:		1731 & 1750 W. Lambert Road La Habra, California		Log of Boring		B-3		PAGE 1 of 1					
Project No.		19094-01		Boring Location:		See Plate 1		Logged by: AM					
Drill Company/Rig		GeoMat/Manual		Date Started:		7/31/2019		Notes: No Groundwater					
Drilling Method:		Hand Auger		Date Finished:		7/31/2019		Total Depth 4 feet					
Hammer Weight/Drop:		--		Hammer Type:		--							
Sampler(s):		Dames & Moore Sample (D), Bulk Sample (B), Nuclear Gauge Test per ASTM 3017 (N)						LABORATORY TEST DATA					
DEPTH (FT)	SAMPLES				Graphic Log	Classification (USCS)	MATERIAL DESCRIPTION	Moisture Content (%)	Dry Density (pcf)	Fines (%)	Liquid Limit	Plastic Limit	Plast. Index
	Type	Sample	Blows / 6"	SPT "N" Value									
					PAVE	4" AC PAVEMENT PETROMAT AT 1.5" BELOW SURFACE 2" AC GRINDINGS OVER 2" AGGREGATE BASE							
1	B				CL	SANDY LEAN CLAY black to dark brown sandy lean clay moist to very moist very cohesive	19				40	16	24
2						moist firm							
3													
4						TD = 4'							
5													
6													
7													
8													
9													
10													
11													
12													
13													
					This log is part of the report prepared by GeoMat for this project and should be read together with the report. This summary applies only at the location of the exploration and at the time of drilling or excavation. Subsurface conditions may differ at other locations and may change at this location with time. Data presented are a simplification of actual conditions encountered.					PROJECT NO. 19094-01 APPENDIX B			

PROJECT:		1731 & 1750 W. Lambert Road La Habra, California		Log of Boring B-4		PAGE 1 of 1	
Project No.		19094-01		Boring Location:		See Plate 1	
Drill Company/Rig		GeoMat/Manual		Date Started:		7/31/2019	
Drilling Method:		Hand Auger		Date Finished:		7/31/2019	
Hammer Weight/Drop:		--		Hammer Type:		--	
Sampler(s):		Dames & Moore Sample (D), Bulk Sample (B), Nuclear Gauge Test per ASTM 3017 (N)		LABORATORY TEST DATA			
DEPTH (FT)		SAMPLES		MATERIAL DESCRIPTION		Moisture Content (%)	
Type		Blows / 6"		Classification (USCS)		Dry Density (pcf)	
SPT "N" Value		Graphic Log				Fines (%)	
						Liquid Limit	
						Plastic Limit	
						Plast. Index	
1		B		PAVE 4" AC PAVEMENT PETROMAT AT 2.5" BELOW SURFACE 2" AGGREGATE BASE		18	
2				CL SANDY LEAN CLAY olive brown sandy lean clay moist to very moist			
3				moist cohesive			
4				TD = 4'			
5							
6							
7							
8							
9							
10							
11							
12							
13							
		This log is part of the report prepared by GeoMat for this project and should be read together with the report. This summary applies only at the location of the exploration and at the time of drilling or excavation. Subsurface conditions may differ at other locations and may change at this location with time. Data presented are a simplification of actual conditions encountered.				PROJECT NO. 19094-01 APPENDIX B	

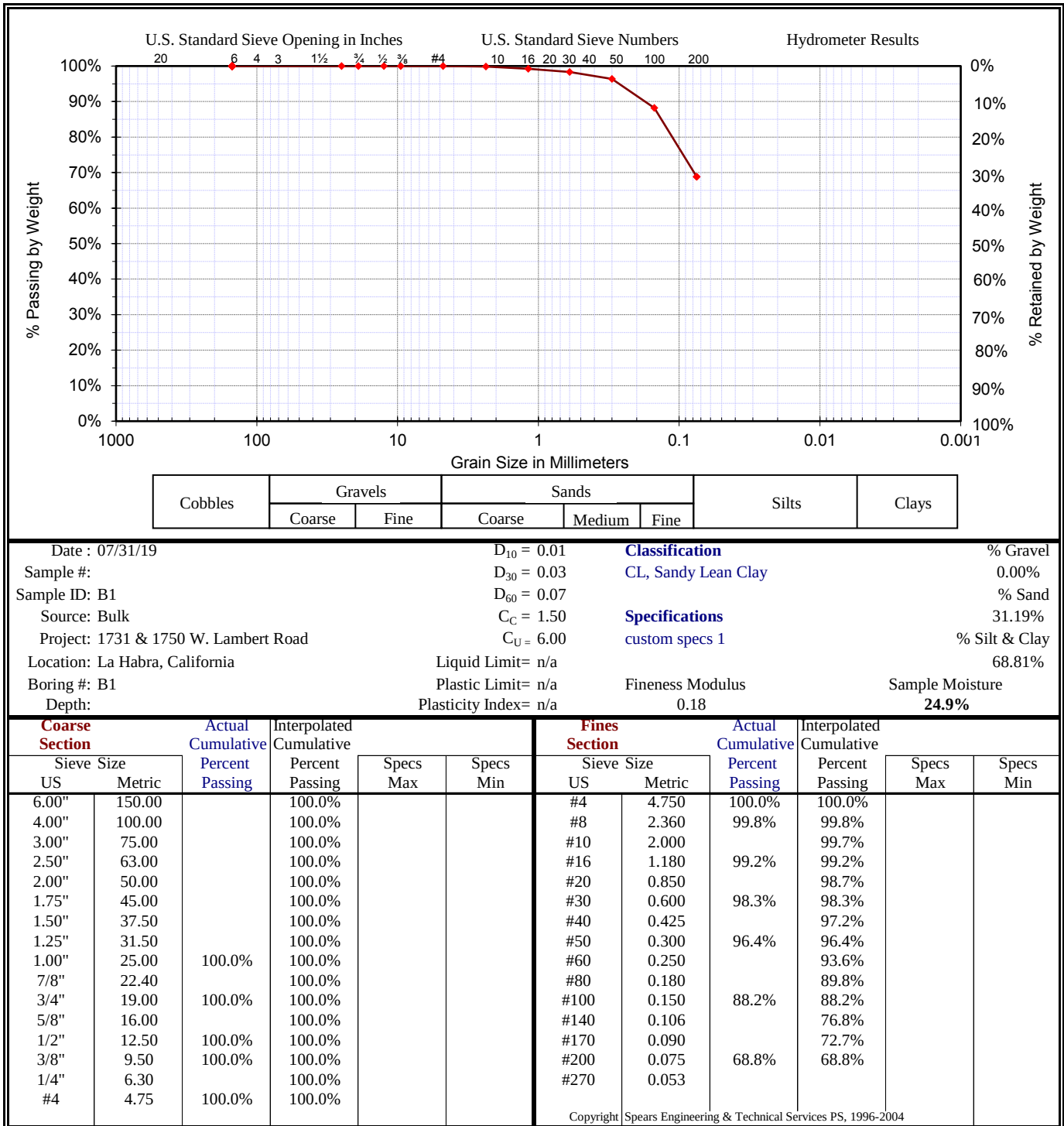
PROJECT:		1731 & 1750 W. Lambert Road La Habra, California		Log of Boring B-5		PAGE 1 of 1							
Project No.		19094-01		Boring Location:		See Plate 1		Logged by:		AM			
Drill Company/Rig		GeoMat/Manual		Date Started:		7/31/2019		Notes:		No Groundwater			
Drilling Method:		Hand Auger		Date Finished:		7/31/2019		Total Depth		4 feet			
Hammer Weight/Drop:		--		Hammer Type:		--		LABORATORY TEST DATA					
Sampler(s):		Dames & Moore Sample (D), Bulk Sample (B), Nuclear Gauge Test per ASTM 3017 (N)											
DEPTH (FT)	SAMPLES				Graphic Log	Classification (USCS)	MATERIAL DESCRIPTION	Moisture Content (%)	Dry Density (pcf)	Fines (%)	Liquid Limit	Plastic Limit	Plast. Index
	Type	Sample	Blows / 6"	SPT "N" Value									
1	B				PAVE	7" AC PAVEMENT PETROMAT AT 1.5" BELOW SURFACE 1" AGGREGATE BASE	18		48				
					SC/CL	CLAYEY SAND/SANDY LEAN CLAY black to dark brown clayey sand / sandy lean clay becoming tan brown sandy lean clay moderate amounts of caliche content moist to very moist moist firm TD = 4'							
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
					This log is part of the report prepared by GeoMat for this project and should be read together with the report. This summary applies only at the location of the exploration and at the time of drilling or excavation. Subsurface conditions may differ at other locations and may change at this location with time. Data presented are a simplification of actual conditions encountered.					PROJECT NO. 19094-01 APPENDIX B			

PROJECT:		1731 & 1750 W. Lambert Road La Habra, California		Log of Boring B-6		PAGE 1 of 1							
Project No.		19094-01		Boring Location:		See Plate 1		Logged by:		AM			
Drill Company/Rig		GeoMat/Manual		Date Started:		7/31/2019		Notes:		No Groundwater			
Drilling Method:		Hand Auger		Date Finished:		7/31/2019		Total Depth		4 feet			
Hammer Weight/Drop:		--		Hammer Type:		--		LABORATORY TEST DATA					
Sampler(s):		Dames & Moore Sample (D), Bulk Sample (B), Nuclear Gauge Test per ASTM 3017 (N)											
DEPTH (FT)	SAMPLES				Graphic Log	Classification (USCS)	MATERIAL DESCRIPTION	Moisture Content (%)	Dry Density (pcf)	Fines (%)	Liquid Limit	Plastic Limit	Plast. Index
	Type	Sample	Blows / 6"	SPT "N" Value									
					PAVE	6" AC PAVEMENT							
	B				CL	PETROMAT AT 1.75" BELOW SURFACE SANDY LEAN CLAY black to dark brown sandy lean clay becoming tan brown sandy lean clay	22		67				
1													
2													
3						moist cohesive							
4						TD = 4'							
5													
6													
7													
8													
9													
10													
11													
12													
13													
					This log is part of the report prepared by GeoMat for this project and should be read together with the report. This summary applies only at the location of the exploration and at the time of drilling or excavation. Subsurface conditions may differ at other locations and may change at this location with time. Data presented are a simplification of actual conditions encountered.					PROJECT NO. 19094-01 APPENDIX B			

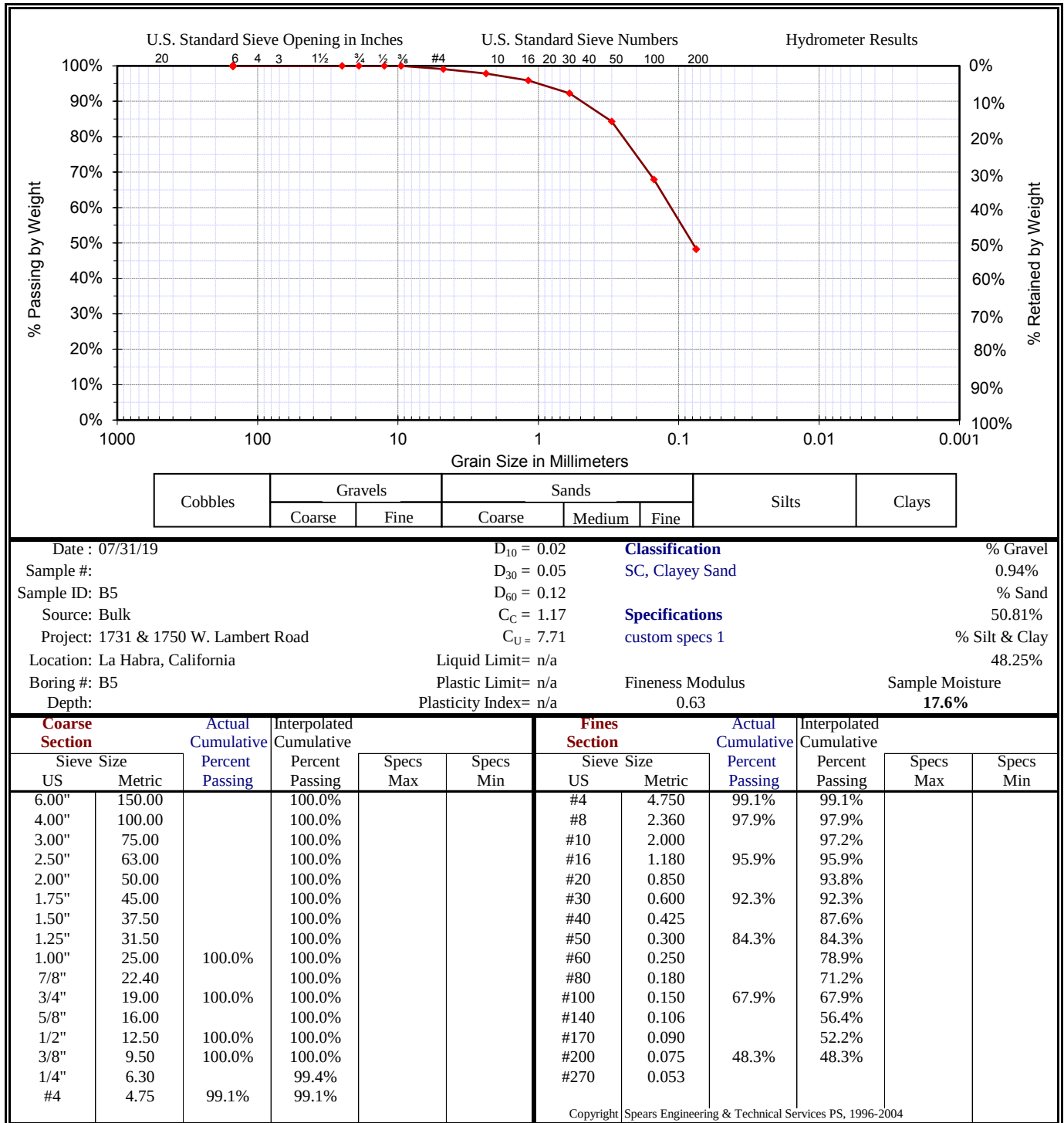
Appendix C



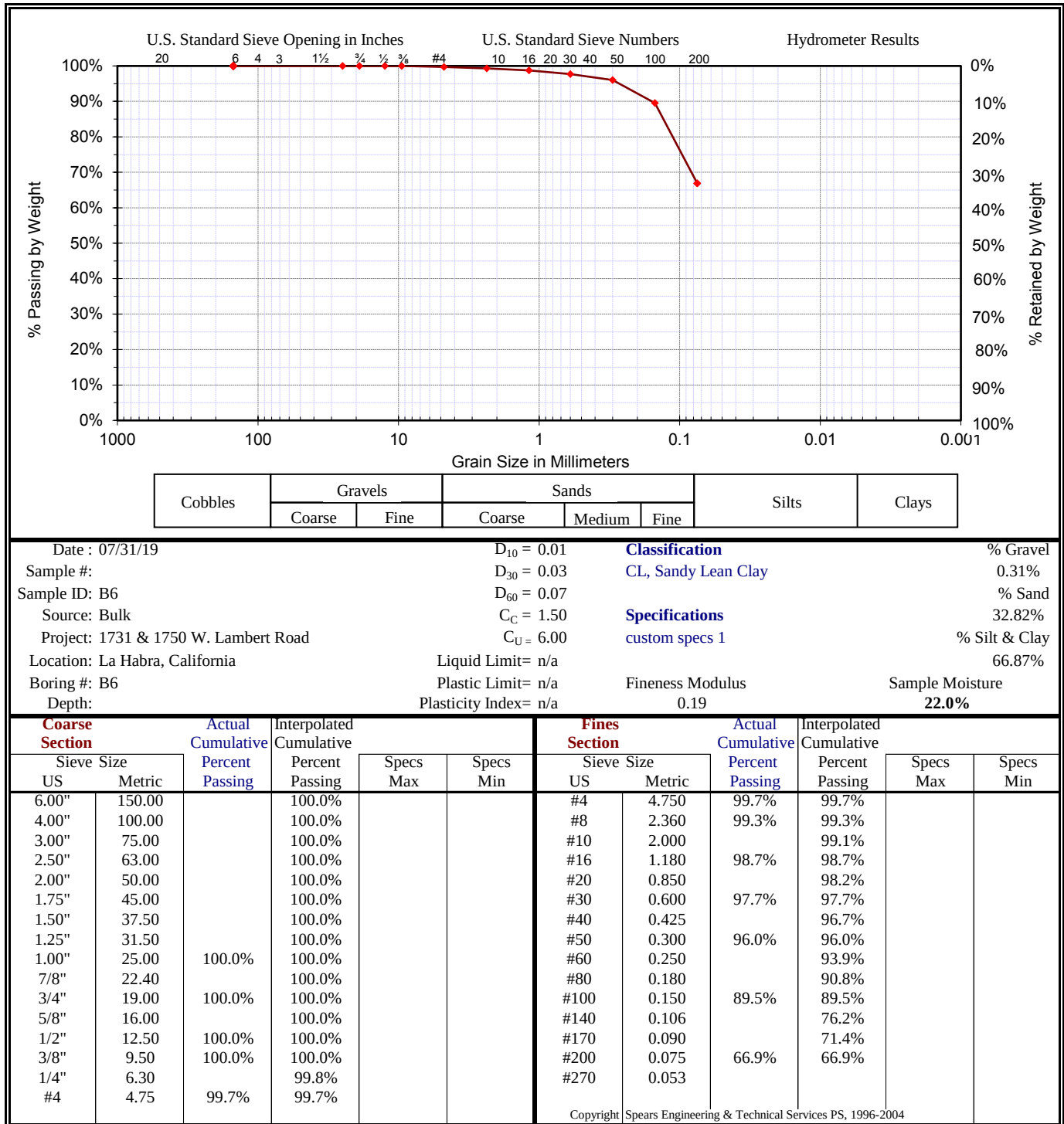
LABORATORY TEST RESULTS



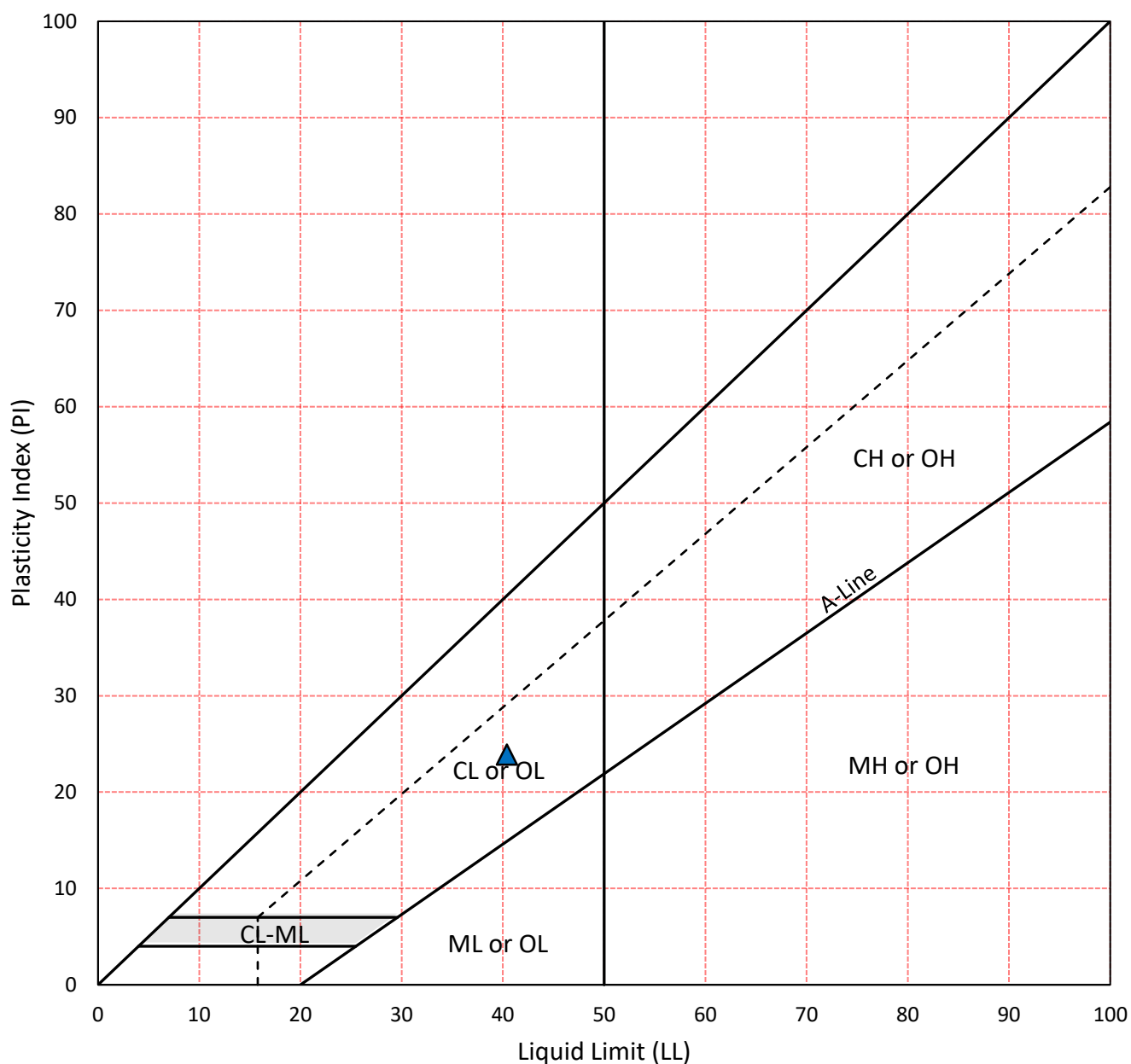
LABORATORY TEST RESULTS



LABORATORY TEST RESULTS



PLASTICITY CHART



LEGEND

▲ B3 @ Bulk

CLASSIFICATION

Dark Brown Lean Clay

ATTERBERG LIMITS TEST RESULTS

LIQUID LIMIT (LL)	PLASTIC LIMIT (PL)	PLASTICITY INDEX (PI)
40.4	16.5	23.9

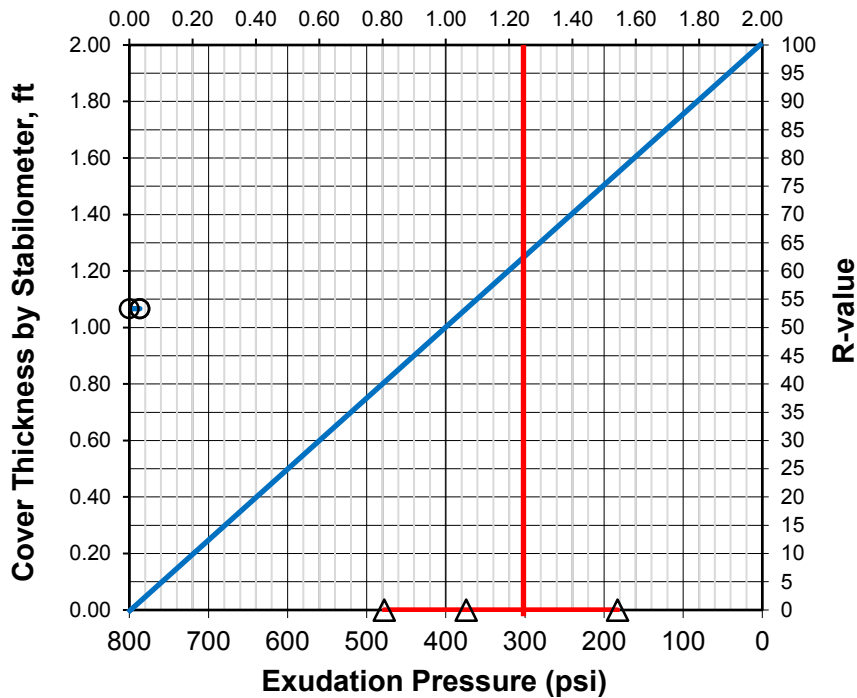
ASTM D4318

Standard Test Method for Liquid Limit, Plastic Limit, and Plasticity Index of Soils



R-Value Test Results

Cover Thickness by Expansion Pressure, ft



No.	Compact Pressure (psi)	Dry Density (pcf)	Moisture (%)	Expansion Pressure (psi)	Horizontal Pressure-psi at 160 psi	Sample Height (in)	Exudation Pressure (psi)	R-Value	Corrected R-Value
1	80	92.7	28.4	1	160	2.82	478	0	0
2	75	92.5	28.9	1	160	2.68	374	0	0
3	50	91.9	29.4	0	160	2.86	183	0	0

Test Method	CT 301
Sample Location	B1
Sample Description	Lean Clay
Notes	

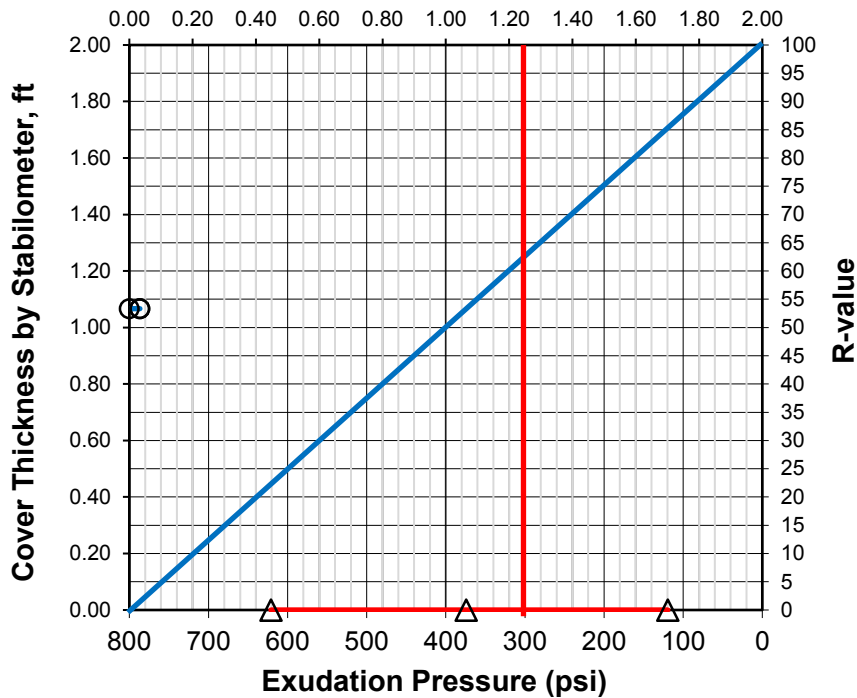
			1	2	3
Assumed Traffic Index	5	Stability Thickness	1.07	1.07	1.07
Gravel Equivalent Factor	1.5	Exp. Pressure Thickness	0.03	0.03	0.00
Expansion, Stability Equilibrium	0				
R-Value by Expansion	N/A				
R-Value by Exudation	0				
R-Value at Equilibrium (Result)	0				

Project Name	Onward Engineering - La Habra
Project Location	1731 & 1750 W. Lambert Rd, La Habra, CA
Client Name	Onward Engineering
Project No.	19094-01



R-Value Test Results

Cover Thickness by Expansion Pressure, ft



No.	Compact Pressure (psi)	Dry Density (pcf)	Moisture (%)	Expansion Pressure (psi)	Horizontal Pressure-psi at 160 psi	Sample Height (in)	Exudation Pressure (psi)	R-Value	Corrected R-Value
1	60	101.8	22.1	1	160	2.67	621	0	0
2	50	105.1	23.1	1	160	2.63	374	0	0
3	40	99.8	24.1	0	160	2.79	119	0	0

Test Method	CT 301
Sample Location	B5
Sample Description	Lean Clay
Notes	

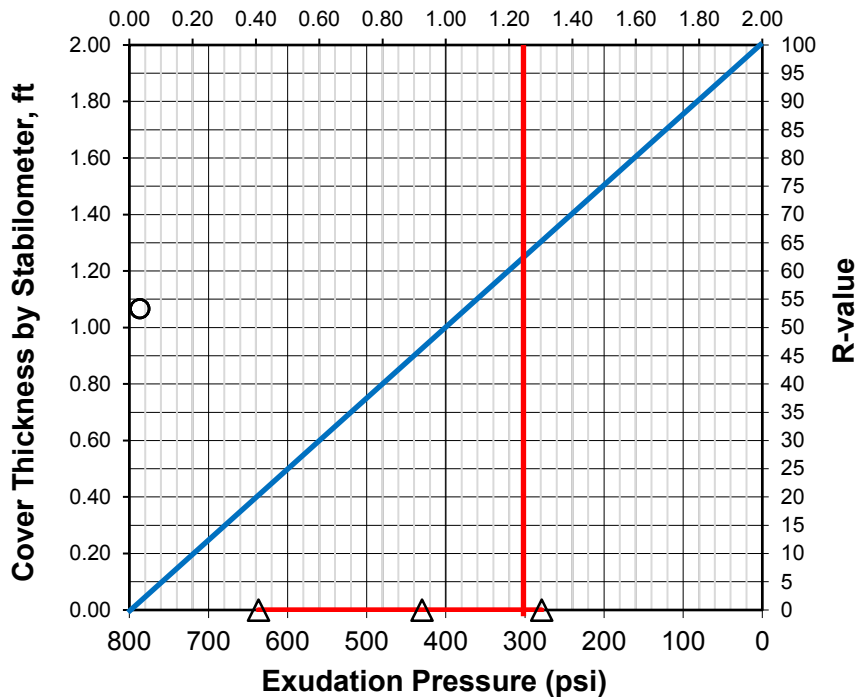
			1	2	3
Assumed Traffic Index	5	Stability Thickness	1.07	1.07	1.07
Gravel Equivalent Factor	1.5	Exp. Pressure Thickness	0.03	0.03	0.00
Expansion, Stability Equilibrium	0				
R-Value by Expansion	N/A				
R-Value by Exudation	0				
R-Value at Equilibrium (Result)	0				

Project Name	Onward Engineering - La Habra
Project Location	1731 & 1750 W. Lambert Rd, La Habra, CA
Client Name	Onward Engineering
Project No.	19094-01



R-Value Test Results

Cover Thickness by Expansion Pressure, ft



No.	Compact Pressure (psi)	Dry Density (pcf)	Moisture (%)	Expansion Pressure (psi)	Horizontal Pressure-psi at 160 psi	Sample Height (in)	Exudation Pressure (psi)	R-Value	Corrected R-Value
1	75	96.9	26.0	1	160	2.76	637	0	0
2	60	96.7	26.5	1	160	2.78	430	0	0
3	50	96.6	27.0	1	160	2.59	279	0	0

Test Method	CT 301
Sample Location	B6
Sample Description	Lean Clay
Notes	

		1		2		3	
Assumed Traffic Index	5	Stability Thickness	1.07	1.07	1.07	1.07	1.07
Gravel Equivalent Factor	1.5	Exp. Pressure Thicknes	0.03	0.03	0.03	0.03	0.03
Expansion, Stability Equilibrium	0						
R-Value by Expansion	N/A						
R-Value by Exudation	0						
R-Value at Equilibrium (Result)	0						

Project Name	Onward Engineering - La Habra
Project Location	1731 & 1750 W. Lambert Rd, La Habra, CA
Client Name	Onward Engineering
Project No.	19094-01



Appendix D

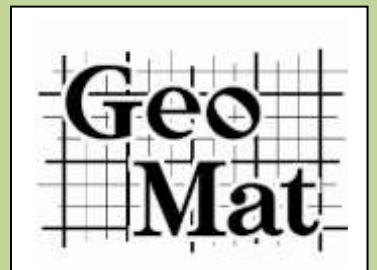


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GENERAL

The guidelines contained herein and the standard details attached hereto represent this firm's standard recommendation for grading and other associated operations on construction projects. These guidelines should be considered a portion of the project specifications.

All plates attached hereto shall be considered as part of these guidelines.

The Contractor should not vary from these guidelines without prior recommendation by the Geotechnical Consultant and the approval of the Client or his authorized representative. Recommendation by the Geotechnical Consultant and/or Client should not be considered to preclude requirements for the approval by the controlling agency prior to the execution of any changes.

These Standard Grading Guidelines and Standard Details may be modified and/or superseded by recommendations contained in the text of the preliminary Geotechnical Report and/or subsequent reports.

If disputes arise out of the interpretation of these grading guidelines or standard details, the Geotechnical Consultant shall provide the governing interpretation.

DEFINITION OF TERMS

ALLUVIUM

Unconsolidated soil deposits resulting from flow of water, including sediments deposited in river beds, canyons, flood plains, lakes, fans and estuaries.

AS-GRADED (AS-BUILT): The surface and subsurface conditions at completion of grading.

BACKCUT: A temporary construction slope at the rear of earth retaining structures such as buttresses, shear keys, stabilization fills or retaining walls.

BACKDRAIN: Generally a pipe and gravel or similar drainage system placed behind earth retaining structures such buttresses, stabilization fills, and retaining walls.

BEDROCK: Relatively undisturbed formational rock, more or less solid, either at the surface or beneath superficial deposits of soil.

BENCH: A relatively level step and near vertical rise excavated into sloping ground on which fill is to be placed.

BORROW (Import): Any fill material hauled to the project site from off-site areas.

BUTTRESS FILL: A fill mass, the configuration of which is designed by engineering calculations to retain slope conditions containing adverse geologic features. A buttress is generally specified by minimum key width and depth and by maximum backcut angle. A buttress normally contains a back-drainage system.

CIVIL ENGINEER: The Registered Civil Engineer or consulting firm responsible for preparation of the grading plans, surveying and verifying as-graded topographic conditions.

CLIENT: The Developer or his authorized representative who is chiefly in charge of the project. He shall have the responsibility of reviewing the findings and recommendations made by the Geotechnical Consultant and shall authorize the Contractor and/or other consultants to perform work and/or provide services.

COLLUVIUM: Generally loose deposits usually found near the base of slopes and brought there chiefly by gravity through slow continuous downhill creep (also see Slope Wash).

COMPACTION : Densification of man-placed fill by mechanical means.

CONTRACTOR – A person or company under contract or otherwise retained by the Client to perform demolition, grading and other site improvements.

DEBRIS: All products of clearing, grubbing, demolition, and contaminated soil materials unsuitable for reuse as compacted fill, and/or any other material so designated by the Geotechnical Consultant.

ENGINEERING GEOLOGIST: A Geologist holding a valid certificate of registration in the specialty of Engineering Geology.

ENGINEERED FILL: A fill of which the Geotechnical Consultant or his representative, during grading, has made sufficient tests to enable him to conclude that the fill has been placed in substantial compliance with the recommendations of the Geotechnical Consultant and the governing agency requirements.

EROSION: The wearing away of ground surface as a result of the movement of wind, water, and/or ice.

EXCAVATION: The mechanical removal of earth materials.

EXISTING GRADE: The ground surface configuration prior to grading.

FILL: Any deposits of soil, rock, soil-rock blends or other similar materials placed by man.

FINISH GRADE: The ground surface configuration at which time the surface elevations conform to the approved plan.

GEOFABRIC: Any engineering textile utilized in geotechnical applications including subgrade stabilization and filtering.

GEOLOGIST: A representative of the Geotechnical Consultant educated and trained in the field of geology.

GEOTECHNICAL CONSULTANT: The Geotechnical Engineering and Engineering Geology consulting firm retained to provide technical services for the project. For the purpose of these specifications, observations by the Geotechnical Consultant include observations by the Soil Engineer, Geotechnical Engineer, Engineering Geologist and those performed by persons employed by and responsible to the Geotechnical Consultants.

GEOTECHNICAL ENGINEER: A licensed Geotechnical Engineer or Civil Engineer who applies scientific methods, engineering principles and professional experience to the acquisition, interpretation and use of knowledge of materials of the earth's crust for the evaluation of engineering problems. Geotechnical Engineering encompasses many of the engineering aspects of soil mechanics, rock mechanics, geology, geophysics, hydrology and related sciences.

GRADING: Any operation consisting of excavation, filling or combinations thereof and associated operations.

LANDSIDE DEBRIS: Material, generally porous and of low density, produced from instability of natural or man-made slopes.

MAXIMUM DENSITY: Standard laboratory test for maximum dry unit weight. Unless otherwise specified, the maximum dry unit weight shall be determined in accordance with ASTM Method of Test D 1557-91.

OPTIMUM MOISTURE – Soil moisture content at the test maximum density.

RELATIVE COMPACTION: The degree of compaction (expressed as a percentage) of dry unit weight of a material as compared to the maximum dry unit weight of the material.

ROUGH GRADE: The ground surface configuration at which time the surface elevations approximately conform to the approved plan.

SITE: The particular parcel of land where grading is being performed.

SHEAR KEY: Similar to buttress, however, it is generally constructed by excavating a slot within a natural slope, in order to stabilize the upper portion of the slope without grading encroaching into the lower portion of the slope.

SLOPE: An inclined ground surface, the steepness of which is generally specified as a ration of horizontal:vertical (e.g., 2:1)

SLOPE WASH: Soil and/or rock material that has been transported down a slope by action of gravity assisted by runoff water not confined by channels (also see Colluvium).

SOIL: Naturally occurring deposits of sand, silt, clay, etc., or combinations thereof.

SOIL ENGINEER: Licensed Geotechnical Engineer or Civil Engineer experienced in soil mechanics (also see Geotechnical Engineer).

STABILIZATION FILL: A fill mass, the configuration of which is typically related to slope height and specified by the standards of practice for enhancing the stability of locally adverse conditions. A stabilization fill is normally specified by minimum key width and depth and by maximum backcut angle. A stabilization fill may or may not have a backdrainage system specified.

SUBDRAIN: Generally a pipe and gravel or similar drainage system placed beneath a fill in the alignment of canyons or formed drainage channels.

SLOUGH: Loose, non-compacted fill material generated during grading operations.

TAILINGS: Non-engineered fill which accumulates on or adjacent to equipment haul-roads.

TERRACE: Relatively level step constructed in the face of a graded slope surface for drainage control and maintenance purposes.

TOPSOIL: The presumable fertile upper zone of soil, which is usually darker in color and loose.

WINDROW: A string of large rocks buried within engineered fill in accordance with guidelines set forth by the Geotechnical Consultant.

OBLIGATIONS OF PARTIES

The Geotechnical Consultant should provide observation and testing services and should make evaluations in order to advise the Client on Geotechnical matters. The Geotechnical Consultant should report his findings and recommendations to the Client or his authorized representative.

The client should be chiefly responsible for all aspects of the project. He or his authorized representative has the responsibility of reviewing the findings and recommendations of the Geotechnical Consultant. He shall authorize or cause to have authorized the Contractor and/or other consultants to perform work and/or provide services.

During grading the Client or his authorized representative should remain on-site or should remain reasonably accessible to all concerned parties in order to make decisions necessary to maintain the flow of the project.

The Contractor should be responsible for the safety of the project and satisfactory completion of all grading and other associated operations on construction projects, including but not limited to, earthwork in accordance with the project plans, specifications and controlling agency requirements. During grading, the Contractor or his authorized representative should remain on-site. Overnight and on days off, the Contractor should remain accessible.

SITE PREPARATION

The Client, prior to any site preparation or grading, should arrange and attend a meeting among the Grading Contractor, the Design Engineer, the Geotechnical Consultant, representatives of the appropriate governing authorities as well as any other concerned parties. All parties should be given at least 48 hours notice.

Clearing and grubbing should consist of the removal of vegetation such as brush, grass, woods, stumps, trees, roots of trees and otherwise deleterious natural materials from the areas to be graded. Clearing and grubbing should extend to the outside of all proposed excavation and fill areas.

Demolition should include removal of buildings, structures, foundations, reservoirs, utilities (including underground pipelines, septic tanks, leach fields, seepage pits, cisterns, mining shafts, tunnels, etc.) and man-made surface and subsurface improvements from the areas to be graded. Demolition of utilities should include proper capping and/or re-routing pipelines at the project perimeter and cutoff and capping of wells in accordance with the requirements of the governing authorities and the recommendations of the Geotechnical Consultant at the time of the demolition.

Trees, plants or man-made improvements not planned to be removed or demolished should be protected by the Contractor from damage or injury.

Debris generated during clearing, grubbing and/or demolition operations should be wasted from areas to be graded and disposed off-site. Clearing, grubbing and demolition operations should be performed under the observation of the Geotechnical Consultant.

The Client or Contractor should obtain the required approvals for the controlling authorities for the project prior, during and/or after demolition, site preparation and removals, etc. The appropriate approvals should be obtained prior to proceeding with grading operations.

SITE PROTECTION

Protection of the site during the period of grading should be the responsibility of the Contractor. Unless other provisions are made in writing and agreed upon among the concerned parties, completion of a portion of the project should not be considered to preclude that portion or adjacent areas from the requirements for site protection until such time as the entire project is complete as identified by the Geotechnical Consultant, the Client and the regulating agencies.

The Contractor should be responsible for the stability of all temporary excavations. Recommendations by the Geotechnical Consultant pertaining to temporary excavations (e.g., backcuts) are made in consideration of stability of the completed project and therefore, should not be considered to preclude the responsibilities of the Contractor. Recommendations by the Geotechnical Consultant should not be considered to preclude more restrictive requirements by the regulating agencies.

Precautions should be taken during the performance of site clearing, excavations and grading to protect the work site from flooding, ponding, or inundation by poor or improper surface drainage. Temporary provisions should be made during the rainy season to adequately direct surface drainage away from and off the work site. Where low areas can not be avoided, pumps should be kept on hand to continually remove water during periods of rainfall.

During periods of rainfall, plastic sheeting should be kept reasonably accessible to prevent unprotected slopes from becoming saturated. Where necessary during periods of rainfall, the Contractor should install check-dams de-silting basins, rip-rap, sandbags or other devices or methods necessary to control erosion and provide safe conditions.

During periods of rainfall, the Geotechnical Consultant should be kept informed by the Contractor as to the nature of remedial or preventative work being performed (e.g., pumping, placement of sandbags or plastic sheeting, other labor, dozing, etc.).

Following periods of rainfall, the Contractor should contact the Geotechnical Consultant and arrange a walk-over of the site in order to visually assess rain related damage. The Geotechnical Consultant may also recommend excavations and testing in order to aid in his assessments. At the request of the Geotechnical Consultant, the Contractor shall make excavations in order to evaluate the extent of rain related damage.

Rain-related damage should be considered to include, but may not be limited to, erosion, silting, saturation, swelling, structural distress and other adverse conditions identified by the Geotechnical Consultant. Soil adversely affected should be classified as Unsuitable Materials and should be subject to overexcavation and replaced with compacted fill or other remedial grading as recommended by the Geotechnical Consultant.

Relatively level areas, where saturated soils and/or erosion gullies exist to depths greater than 1 foot, should be overexcavated to unaffected, competent material. Where less than 1 foot in depth, unsuitable materials may be processed in-place to achieve near optimum moisture conditions, then thoroughly recompacted in accordance with the applicable specifications. If the desired results are not achieved, the affected materials should be overexcavated then replaced in accordance with the applicable specifications.

In slope areas, where saturated soil and/or erosion gullies exist to depths of greater than 1 foot, should be over-excavated to unaffected, competent material. Where affected materials exist to depths of 1 foot or less below proposed finished grade, remedial grading by moisture conditioning in-place, followed by thorough recompaction in accordance with the applicable grading guidelines herein may be attempted. If the desired results are not achieved, all affected materials should be overexcavated and replaced as compacted fill in accordance with the slope repair recommendations herein. As field conditions dictate, other slope repair procedures may be recommended by the Geotechnical Consultant.

EXCAVATIONS

UNSUITABLE MATERIALS:

Materials which are unsuitable should be excavated under observation and recommendations of the Geotechnical Consultant. Unsuitable materials include, but may not be limited to dry, loose, soft, wet, organic compressible natural soils and fractured, weathered, soft, bedrock and nonengineered or otherwise deleterious fill materials.

Materials identified by the Geotechnical Consultant as unsatisfactory due to its moisture conditions should be overexcavated, watered or dried, as needed, and thoroughly blended to uniform near optimum moisture condition (per Moisture guidelines presented herein) prior to placement as compacted fill.

CUT SLOPES:

Unless otherwise recommended by the Geotechnical Consultant and approved by the regulating agencies, permanent cut slopes should not be steeper than 2:1 (horizontal:vertical).

If excavations for cut slopes expose loose, cohesionless, significantly fractured or otherwise suitable material, overexcavation and replacement of the unsuitable materials with a compacted stabilization fill should be accomplished as recommended by the Geotechnical Consultant. Unless otherwise specified by the Geotechnical Consultant, stabilization fill construction should conform to the requirements of the Standard Details.

The Geotechnical Consultant should review cut slopes during excavation. The Geotechnical Consultant should be notified by the contractor prior to beginning slope excavations.

If during the course of grading, adverse or potentially adverse geotechnical conditions are encountered which were not anticipated in the preliminary report, the Geotechnical Consultant should explore, analyze and make recommendations to treat these problems.

When cuts slopes are made in the direction of the prevailing drainage, a non-erodible diversion swale (brow ditch) should be provided at the top-of-cut.

PAD AREAS:

All lot pad areas, including side yard terraces, above stabilization fills or buttresses should be over-excavated to provide for a minimum of 3-feet (refer to Standard Details) of compacted fill over the entire pad area. Pad areas with both fill and cut materials exposed and pad areas containing both very shallow (less than 3-feet) and deeper fill should be over- thickness (refer to Standard Details).

Cut areas exposing significantly varying material types should also be overexcavated to provide for at least a 3-foot thick compacted fill blanket. Geotechnical conditions may require greater depth of overexcavation. The actual depth should be delineated by the Geotechnical Consultant during grading.

For pad areas created above cut or natural slopes, positive drainage should be established away from the top-of-slope. This may be accomplished utilizing a berm and/or an appropriate pad gradient. A gradient in soil areas away from the top-of-slope of 2 percent or greater is recommended.

COMPACTED FILL

All fill materials should be compacted as specified below or by other methods specifically recommended by the Geotechnical Consultant. Unless otherwise specified, the minimum degree of compaction (relative compaction) should be 90 percent of the laboratory maximum density.

PLACEMENT

Prior to placement of compacted fill, the Contractor should request a review by the Geotechnical Consultant of the exposed ground surface. Unless otherwise recommended, the exposed ground surface should then be scarified (6-inches minimum), watered or dried as needed, thoroughly blended to achieve near optimum moisture conditions, then thoroughly compacted to a minimum of 90 percent of the maximum density. The review by the Geotechnical Consultants should not be considered to preclude requirements of inspection and approval by the governing agency.

Compacted fill should be placed in thin horizontal lifts not exceeding 8-inches in loose thickness prior to compaction. Each lift should be watered or dried as needed, thoroughly blended to achieve near optimum moisture conditions then thoroughly compacted by mechanical methods to a minimum of 90 percent of laboratory maximum dry density. Each lift should be treated in a like manner until the desired finished grades are achieved.

The Contractor should have suitable and sufficient mechanical compaction equipment and watering apparatus on the job site to handle the amount of fill being placed in consideration of moisture retention properties of the materials. If necessary, excavation equipment should be "shut down" temporarily in order to permit proper compaction of fills. Earth moving equipment should only be considered a supplement and not substituted for conventional compaction equipment.

When placing fill in horizontal lifts adjacent to areas sloping steeper than 5:1 (horizontal:vertical), horizontal keys and vertical benches should be excavated into the adjacent slope area. Keying and benching should be sufficient to provide at least 6-foot wide benches and minimum of 4-feet of vertical bench height within the firm natural ground, firm bedrock or engineered compacted fill. No compacted fill should be placed in an area subsequent to keying and benching until the area has been reviewed by the Geotechnical Consultant. Material generated by the benching operation should be moved sufficiently away from the bench area to allow for the recommended review of the horizontal bench prior to placement of fill. Typical keying and benching details have been included within the accompanying Standard Details.

Within a single fill area where grading procedures dictate two or more separate fills, temporary slopes (false slopes) may be created. When placing fill adjacent to a false slope, benching should be conducted in the same manner as above described. At least a 3-foot vertical bench should be established within the firm core of adjacent approved compacted fill prior to placement of additional fill. Benching should proceed in at least 3-foot vertical increments until the desired finished grades are achieved.

Fill should be tested for compliance with the recommended relative compaction and moisture conditions. Field density testing should conform to ASTM Method of Testing D 1556-64, D 2922-78 and/or D2937-71. Tests should be provided for about every 2 vertical feet or 1,000 cubic yards of fill placed. Actual test intervals may vary as field conditions dictate. Fill found not to be in conformance with the grading recommendations should be removed or otherwise handled as recommended by the Geotechnical Consultant.

The Contractor should assist the Geotechnical Consultant and/or his representative by digging test pits for removal determinations and/or for testing compacted fill.

As recommended by the Geotechnical Consultant, the Contractor should "shutdown" or remove any grading equipment from an area being tested.

The Geotechnical Consultant should maintain a plan with estimated locations of field tests. Unless the client provides for actual surveying of test locations, by the Geotechnical Consultant should only be considered rough estimates and should not be utilized for the purpose of preparing cross sections showing test locations or in any case for the purpose of after-the-fact evaluating of the sequence of fill placement.

MOISTURE

For field testing purposes, “near optimum” moisture will vary with material type and other factors including compaction procedures. “Near optimum” may be specifically recommended in Preliminary Investigation Reports and/or may be evaluated during grading.

Prior to placement of additional compacted fill following an overnight or other grading delay, the exposed surface of previously compacted fill should be processed by scarification, watered or dried as needed, thoroughly blended to near-optimum moisture conditions, then recompact to a minimum of 90 percent of laboratory maximum dry density. Where wet or other dry or other unsuitable materials exist to depths of greater than one foot, the unsuitable materials should be overexcavated.

Following a period of flooding, rainfall or overwatering by other means, no additional fill should be placed until damage assessments have been made and remedial grading performed as described herein.

FILL MATERIAL

Excavated on-site materials which are acceptable to the Geotechnical Consultant may be utilized as compacted fill, provided trash, vegetation and other deleterious materials are removed prior to placement.

Where import materials are required for use on-site, the Geotechnical Consultant should be notified at least 72 hours in advance of importing, in order to sample and test materials from proposed borrow sites. No import materials should be delivered for use on-site without prior sampling and testing by Geotechnical Consultant.

Where oversized rock or similar irreducible material is generated during grading, it is recommended, where practical, to waste such material off-site or on-site in areas designated as “nonstructural rock disposal areas”. Rock placed in disposal areas should be placed with sufficient fines to fill voids. The rock should be compacted in lifts to an unyielding condition. The disposal area should be covered with at least 3-feet of compacted fill, which is free of oversized material. The upper 3-feet should be placed in accordance with the guidelines for compacted fill herein.

Rocks 3 inches in maximum dimension and smaller may be utilized within the compacted fill, provided they are placed in such a manner that nesting of the rock is avoided. Fill should be placed and thoroughly compacted over and around all rock. The amount of rock should not exceed 40 percent by dry weight passing the $\frac{3}{4}$ -inch sieve size. The 3-inch and 40 percent recommendations herein may vary as field conditions dictate.

During the course of grading operations, rocks or similar irreducible materials greater than 3-inch maximum dimension (oversized material) may be generated. These rocks should not be placed within the compacted fill unless placed as recommended by the Geotechnical Consultant.

Where rocks or similar irreducible materials of greater than 3-inches but less than 4-feet of maximum dimension are generated during grading, or otherwise desired to be placed within an engineered fill, special handling in accordance with the accompanying Standard Details is recommended. Rocks greater than 4 feet should be broken down or disposed off-site. Rocks up to 4-feet maximum dimension should be placed below the upper 10-feet of any fill and should not be closer than 20-feet to any slope face. These recommendations could vary as locations of improvements dictate. Where practical, oversized material should not be placed below areas where structures of deep utilities are proposed.

Oversized material should be placed in windrows on a clean, overexcavated or unyielding compacted fill or firm natural ground surface. Select native or imported granular soil (S.E. 30 or higher) should be placed and thoroughly flooded over and around all windrowed rock, such that voids are filled. Windrows of oversized material should be staggered so that successive strata of oversized material are not in the same vertical plane.

It may be possible to dispose of individual larger rock as field conditions dictate and as recommended by the Geotechnical Consultant at time of placement.

Material that is considered unsuitable by the Geotechnical Consultant should not be utilized in the compacted fill.

During grading operations, placing and mixing the materials from the cut and/or borrow areas may result in soil mixtures which possess unique physical properties. Testing may be required of samples obtained directly from the fill areas in order to verify conformance with the specifications. Processing of these additional samples may take two or more working days. The Contractor may elect to move the operation to other areas within the project, or may continue placing compacted fill pending laboratory and field test results. Should he elect the second alternative, fill placed is done so at the Contractor's risk.

Any fill placed in areas not previously reviewed and evaluated by the Geotechnical Consultant, and/or in other areas, without prior notification to the Geotechnical Consultant may require removal and recompaction at the Contractor's expense. Determination of overexcavations should be made upon review of field conditions by the Geotechnical Consultant.

FILL SLOPES

Unless otherwise recommended by the Geotechnical Consultant and approved by the regulating agencies, permanent fill slopes should not be steeper than 2:1 (horizontal to vertical).

Except as specifically recommended otherwise or as otherwise provided for in these grading guidelines (Reference Fill Materials), compacted fill slopes should be overbuilt and cut back to grade, exposing the firm, compacted fill inner core. The actual amount of overbuilding may vary as field conditions dictate. If the desired results are not achieved, the existing slopes should be overexcavated and reconstructed under the guidelines of the Geotechnical Consultant. The degree of overbuilding shall be increased until the desired compacted slope surface condition is achieved. Care should be taken by the Contractor to provide thorough mechanical compaction to the outer edge of the overbuilt slope surface.

Although no construction procedure produces a slope free from risk of future movement, overfilling and cutting back of slope to a compacted inner core is, given no other constraints, the most desirable procedure. Other constraints, however, must often be considered. These constraints may include property line situations, access, the critical nature of the development, and cost. Where such constraints are identified, slope face compaction may be attempted by conventional construction procedures including backrolling techniques upon specific recommendations by the Geotechnical Consultant.

As a second best alternative for slopes of 2:1 (horizontal to vertical) or flatter, slope construction may be attempted as outlined herein. Fill placement should proceed in thin lifts, (i.e., 6 to 8 inch loose thickness). Each lift should be moisture conditioned and thoroughly compacted. The desired moisture condition should be maintained and/or reestablished, where necessary, during the period between successive lifts. Selected lifts should be tested to ascertain that desired compaction is being achieved. Care should be taken to extend compactive effort to the outer edge of the slope. Each lift should extend horizontally to the desired finished slope surface or more as needed to ultimately establish desired grades. Grade during construction should not be allowed to roll off at the edge of the slope. It may be helpful to elevate slightly the outer edge of the slope. Slough resulting from the placement of individual lifts should not be allowed to drift down over previous lifts. At intervals not exceeding 4-feet in vertical slope height or the capability of available equipment, whichever is less, fill slopes should be thoroughly backrolled utilizing a conventional sheepsfoot-type roller. Care should be taken to maintain the desired moisture conditions and/or reestablishing same as needed prior to backrolling. Upon achieving final grade, the slopes should again be moisture conditioned and thoroughly backrolled. The use of a side-boom roller will probably be necessary and vibratory methods are strongly recommended. Without delay, so as to avoid (if possible) further moisture conditioning, the slopes should then be grid-rolled to achieve a relatively smooth surface and uniformly compact condition.

In order to monitor slope construction procedures, moisture and density tests will be taken at regular intervals. Failure to achieve the desired results will likely result in a recommendation by the Geotechnical Consultant to overexcavate the slope surfaces followed by reconstruction of the slopes utilizing overfilling and cutting back procedures and/or further attempt at the conventional backrolling approach. Other recommendations may also be provided which would be commensurate with field conditions.

Where placement of fill above a natural slope or above a cut slope is proposed, the fill slope configuration as presented in the accompanying standard Details should be adopted.

For pad areas above fill slopes, positive drainage should be established away from the top-of-slope. This may be accomplished utilizing a berm and pad gradients of at least 2-percent in soil area.

OFF-SITE FILL

Off-site fill should be treated in the same manner as recommended in these specifications for site preparation, excavation, drains, compaction, etc.

Off-site canyon fill should be placed in preparation for future additional fill, as shown in the accompanying Standard Details.

Off-site fill subdrains temporarily terminated (up canyon) should be surveyed for future relocation and connection.

DRAINAGE

Canyon sub-drain systems specified by the Geotechnical Consultant should be installed in accordance with the Standard Details.

Typical sub-drains for compacted fill buttresses, slope stabilization or sidehill masses, should be installed in accordance with the specifications of the accompanying Standard Details.

Roof, pad and slope drainage should be directed away from slopes and areas of structures to suitable disposal areas via non-erodible devices (i.e., gutters, downspouts, concrete swales).

For drainage over soil areas immediately away from structures (i.e., within 4-feet), a minimum of 4 percent gradient should be maintained. Pad drainage of at least 2 percent should be maintained over soil areas. Pad drainage may be reduced to at least 1 percent for projects where no slopes exist, either natural or man-made, or greater than 10-feet in height and where no slopes are planned, either natural or man-made, steeper than 2:1 (horizontal to vertical slope ratio).

Drainage patterns established at the time of fine grading should be maintained throughout the life of the project. Property owners should be made aware that altering drainage patterns can be detrimental to slope stability and foundation performance.

STAKING

In all fill areas, the fill should be compacted prior to the placement of the stakes. This particularly is important on fill slopes. Slope stakes should not be placed until the slope is thoroughly compacted (backrolled). If stakes must be placed prior to the completion of compaction procedures, it must be recognized that they will be removed and/or demolished at such time as compaction procedures resume.

In order to allow for remedial grading operations, which could include overexcavations or slope stabilization, appropriate staking offsets should be provided. For finished slope and stabilization backcut areas, we recommend at least 10-foot setback from proposed toes and tops-of-cut.

SLOPE MAINTENANCE LANDSCAPE PLANTS

In order to enhance superficial slope stability, slope planting should be accomplished at the completion of grading. Slope planting should consist of deep-rooting vegetation requiring little watering. Plants native to the Southern California area and plants relative to native plants are generally desirable. Plants native to other semiarid and arid areas may also be appropriate. A Landscape Architect would be the best party to consult regarding actual types of plants and planting configuration.

IRRIGATION

Irrigation pipes should be anchored to slope faces, not placed in trenches excavated into slope faces.

Slope irrigation should be minimized. If automatic timing devices are utilized on irrigation systems, provisions should be made for interrupting normal irrigation during periods of rainfall.

Though not a requirement, consideration should be given to the installation of near-surface moisture monitoring control devices. Such devices can aid in the maintenance of relatively uniform and reasonably constant moisture conditions.

Property owners should be made aware that overwatering of slopes is detrimental to slope stability.

MAINTENANCE

Periodic inspections of landscaped slope areas should be planned and appropriate measures should be taken to control weeds and enhance growth of the landscape plants. Some areas may require occasional replanting and/or reseeding.

Terrace drains and drowndrains should be periodically inspected and maintained free of debris. Damage to drainage improvements should be repaired immediately.

Property owners should be made aware that burrowing animals can be detrimental to slope stability. A preventative program should be established to control burrowing animals.

As a precautionary measure, plastic sheeting should be readily available, or kept on hand, to protect all slope areas from saturation by periods of heavy or prolonged rainfall. This measure is strongly recommended, beginning with the period of time prior to landscape planting.

REPAIRS

If slope failures occur, the Geotechnical Consultant should be contacted for a field review of site conditions and development of recommendations for evaluation and repair.

If slope failure occurs as a result of exposure to periods of heavy rainfall, the failure areas and currently unaffected areas should be covered with plastic sheeting to protect against additional saturation.

In the accompanying Standard Details, appropriate repair procedures are illustrated for superficial slope failures (i.e., occurring typically within the outer 1 foot to 3 feet of a slope face).

TRENCH BACKFILL

Utility trench backfill should, unless otherwise recommended, be compacted by mechanical means. Unless otherwise recommended, the degree of compaction should be a minimum of 95 percent of the laboratory maximum density.

Approved granular material (sand equivalent greater than 30) should be used to bed and backfill utilities to a depth of at least 1 foot over the pipe. This backfill should be uniformly watered, compacted and/or wheel-rolled from the surface to a firm condition for pipe support.

The remainder of the backfill shall be typical on-site soil or imported soil which should be placed in lifts not exceeding 8 inches in thickness, watered or aerated to at least 3 percent above the optimum moisture content, and mechanically compacted to at least 95 percent of maximum dry density (based on ASTM D1557).

Backfill of exterior and interior trenches extending below a 1:1 projection from the outer edge of foundations should be mechanically compacted to a minimum of 95 percent of the laboratory maximum density.

Within slab areas, but outside the influence of foundations, trenches up to 1 foot wide and 2 feet deep may be backfilled with sand and consolidated by uniformly watering or by mechanical means. If on-site materials are utilized, they should be wheel-rolled, tamped or otherwise compacted to a firm condition. For minor interior trenches, density testing may be deleted or spot testing may be elected if deemed necessary, based on review of back-fill operations during construction.

If utility contractors indicate that it is undesirable to use compaction equipment in close proximity to a buried conduit, the Contractor may elect the utilization of light weight compaction equipment and/or shading of the conduit with clean, granular material, which should be thoroughly jetted in-place above the conduit, prior to initiating mechanical compaction procedures. Other methods of utility trench compaction may also be appropriate, upon review by the Geotechnical Consultant at the time of construction.

In cases where clean granular materials are proposed for use in lieu of native materials or where flooding or jetting is proposed, the procedures should be considered subject to review by the Geotechnical Consultant.

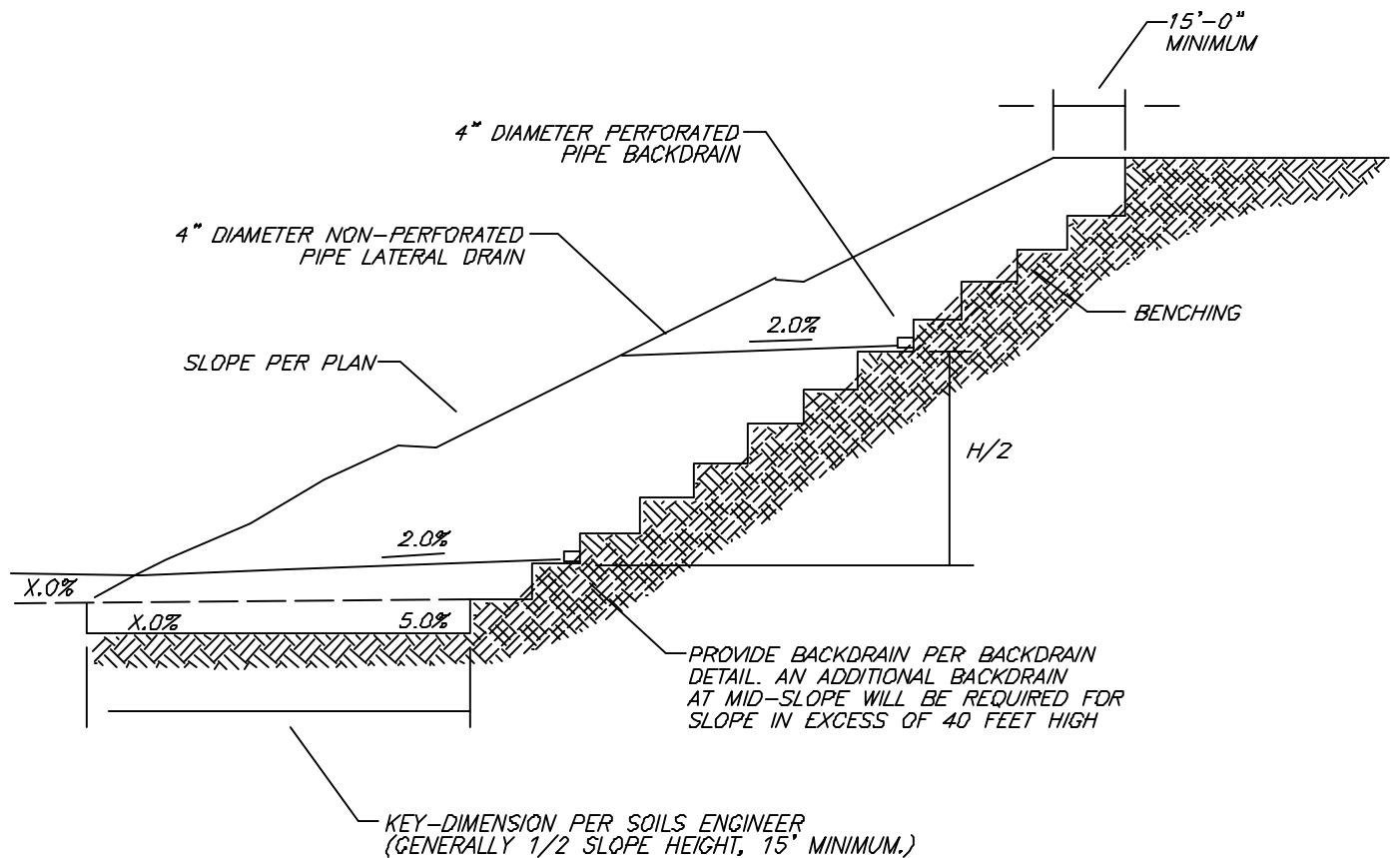
Clean Granular backfill and/or bedding are not recommended in slope areas unless provisions are made for a drainage system to mitigate the potential build-up of seepage forces.

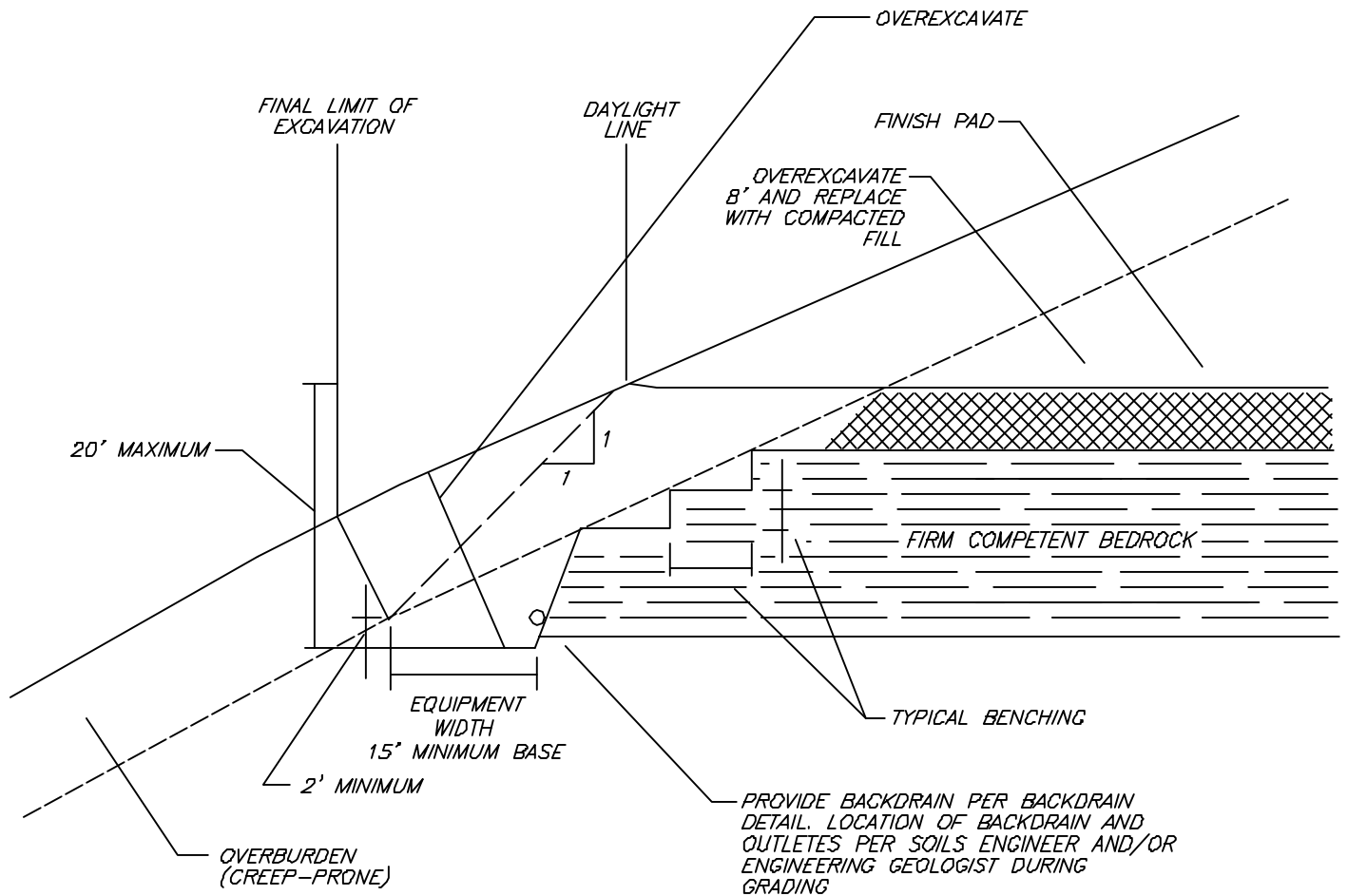
STATUS OF GRADING

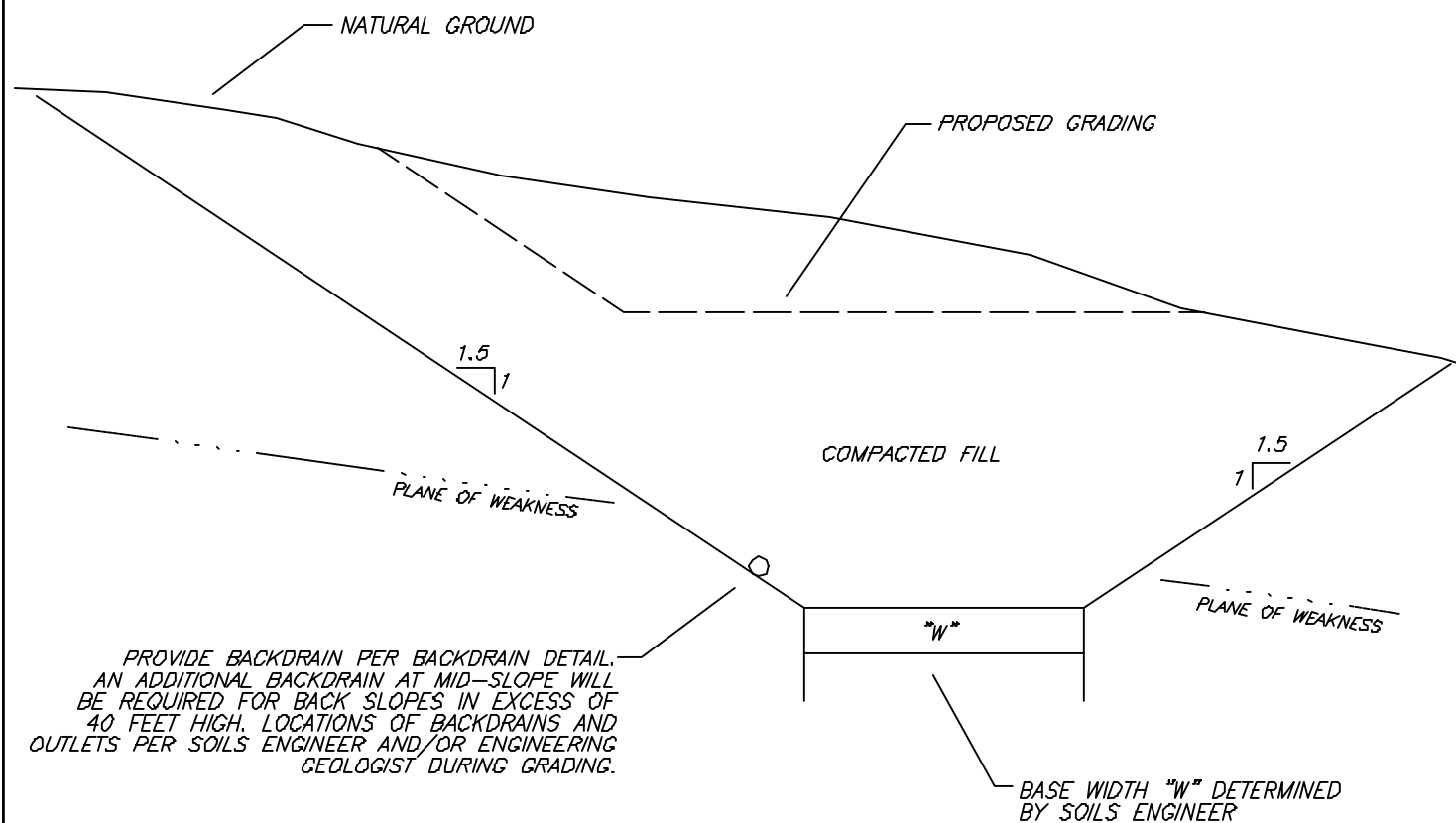
Prior to proceeding with any grading operation, the Geotechnical Consultant should be notified at least two working days in advance in order to schedule the necessary observation and testing services.

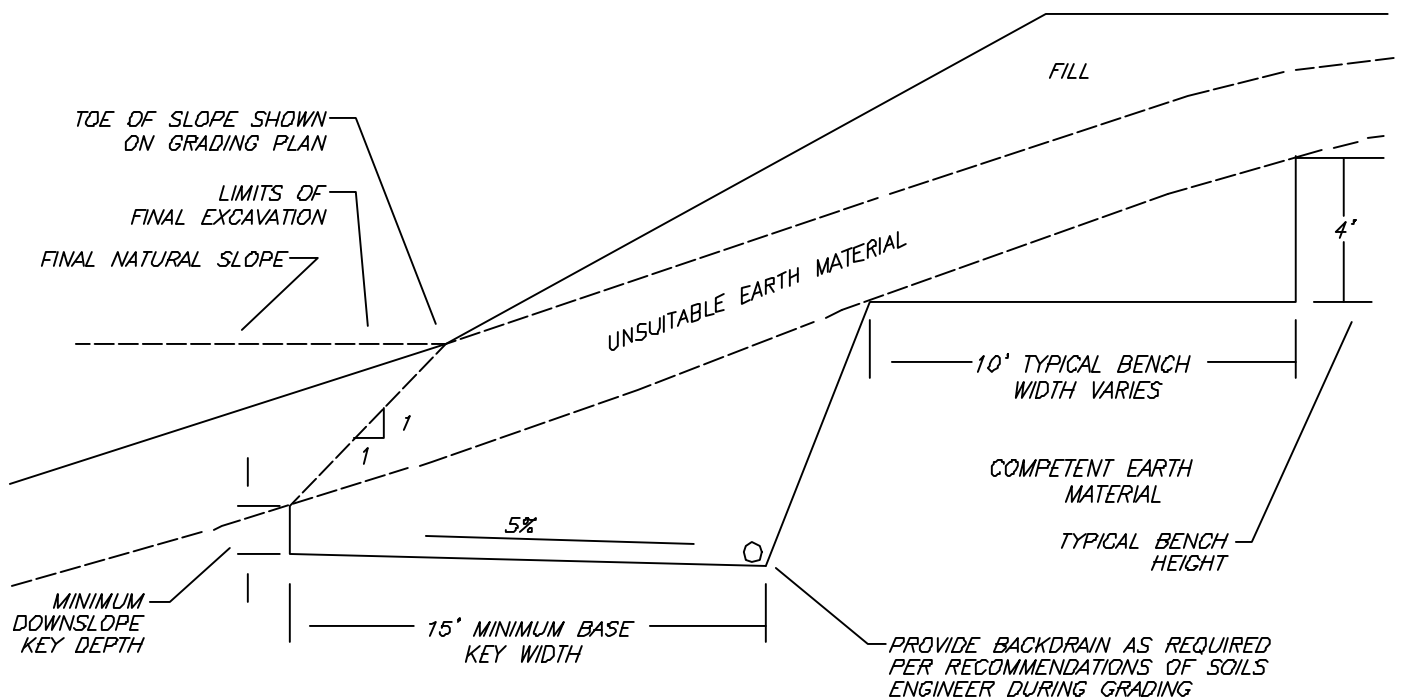
Prior to any significant expansion of cut back in the grading operation, the Geotechnical Consultant should be provided with adequate notice (i.e., two days) in order to make appropriate adjustments in observation and testing services.

Following completion of grading operations and/or between phases of a grading operation, the Geotechnical Consultant should be provided with at least two working days notice in advance of commencement of additional grading operations.

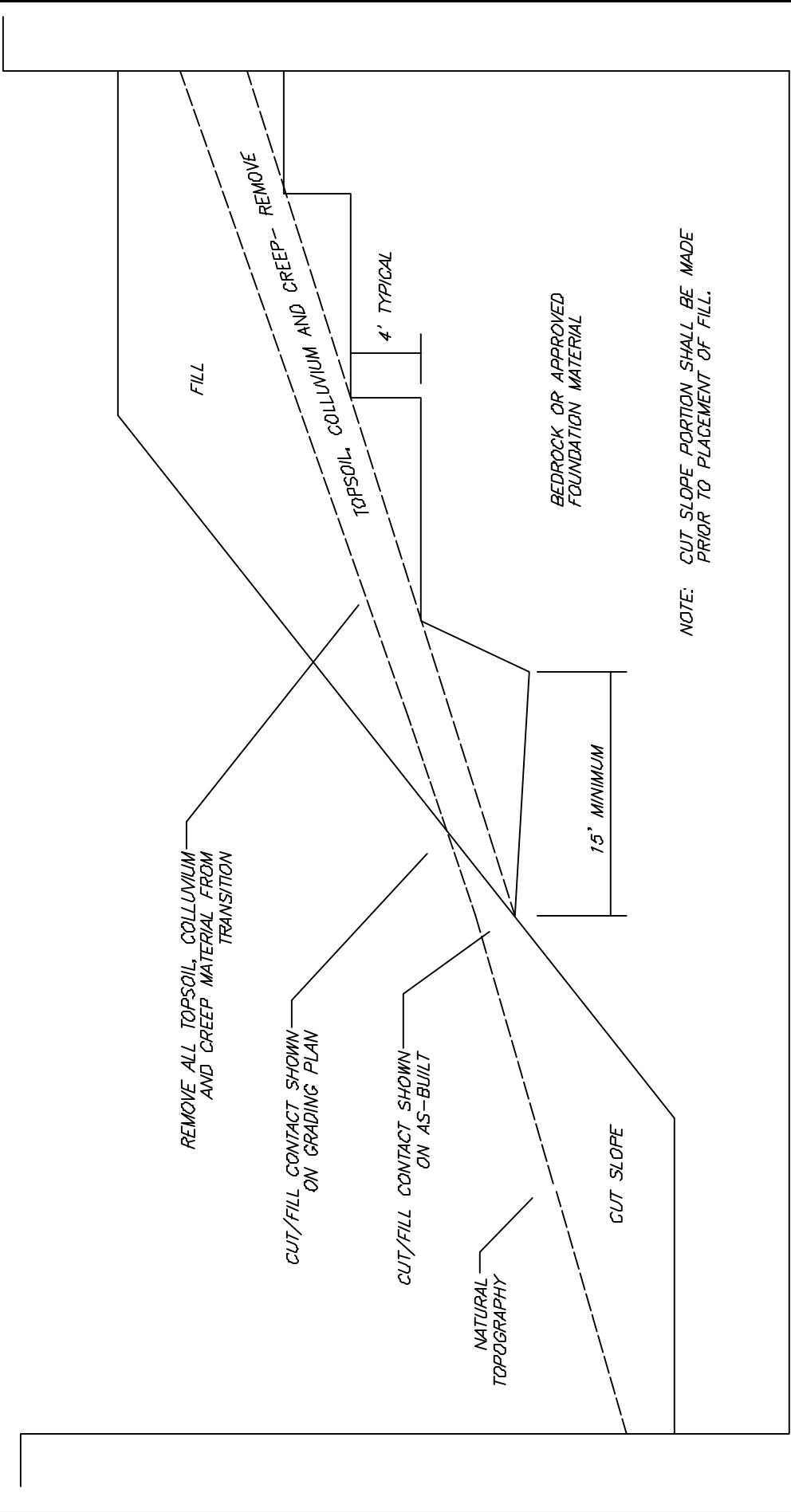




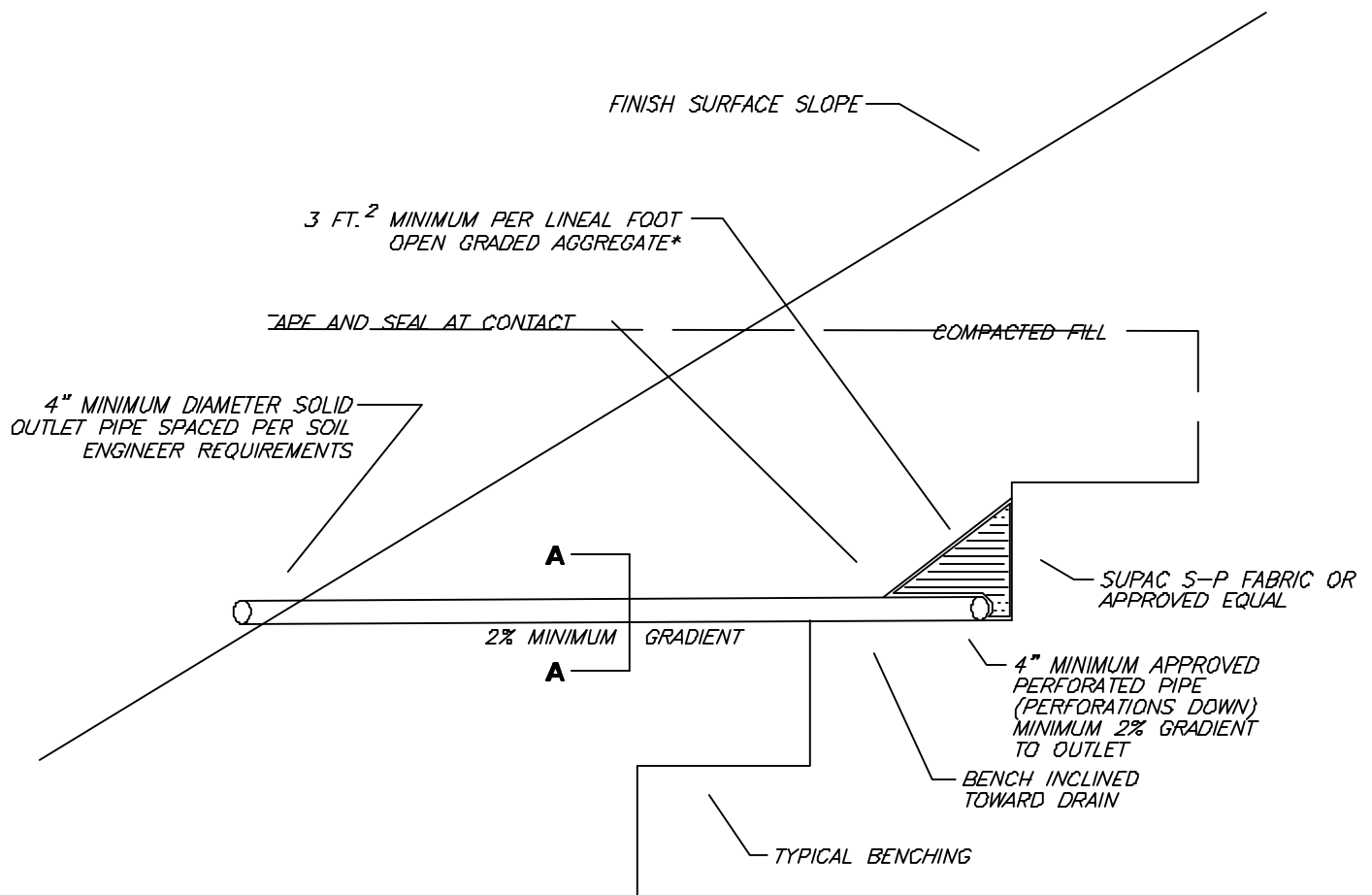




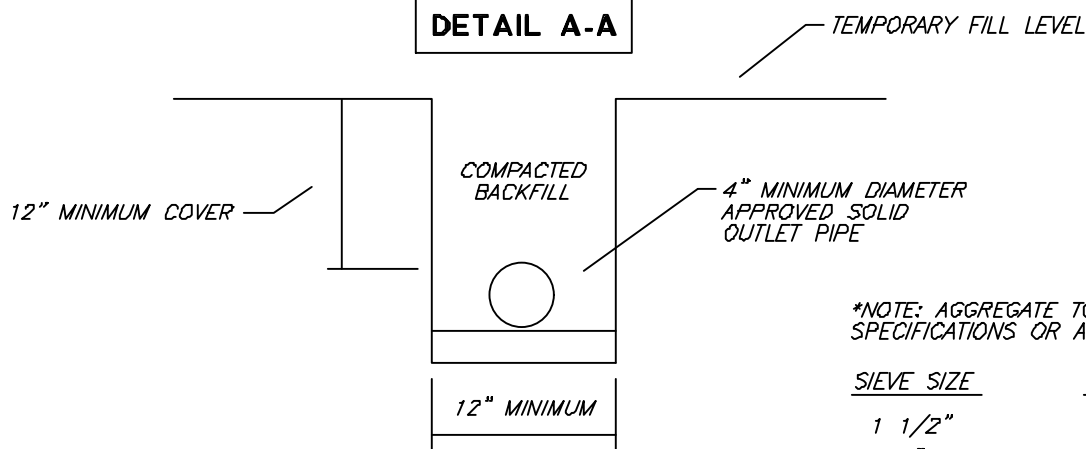
WHERE NATURAL SLOPE IS 5:1 OR LESS, BENCHING IS NOT NECESSARY, HOWEVER, FILL IS NOT TO BE PLACED ON COMPRESSIBLE OR UNSUITABLE MATERIAL.



FILL SLOPE ABOVE CUT SLOPE
DETAIL



DETAIL A-A



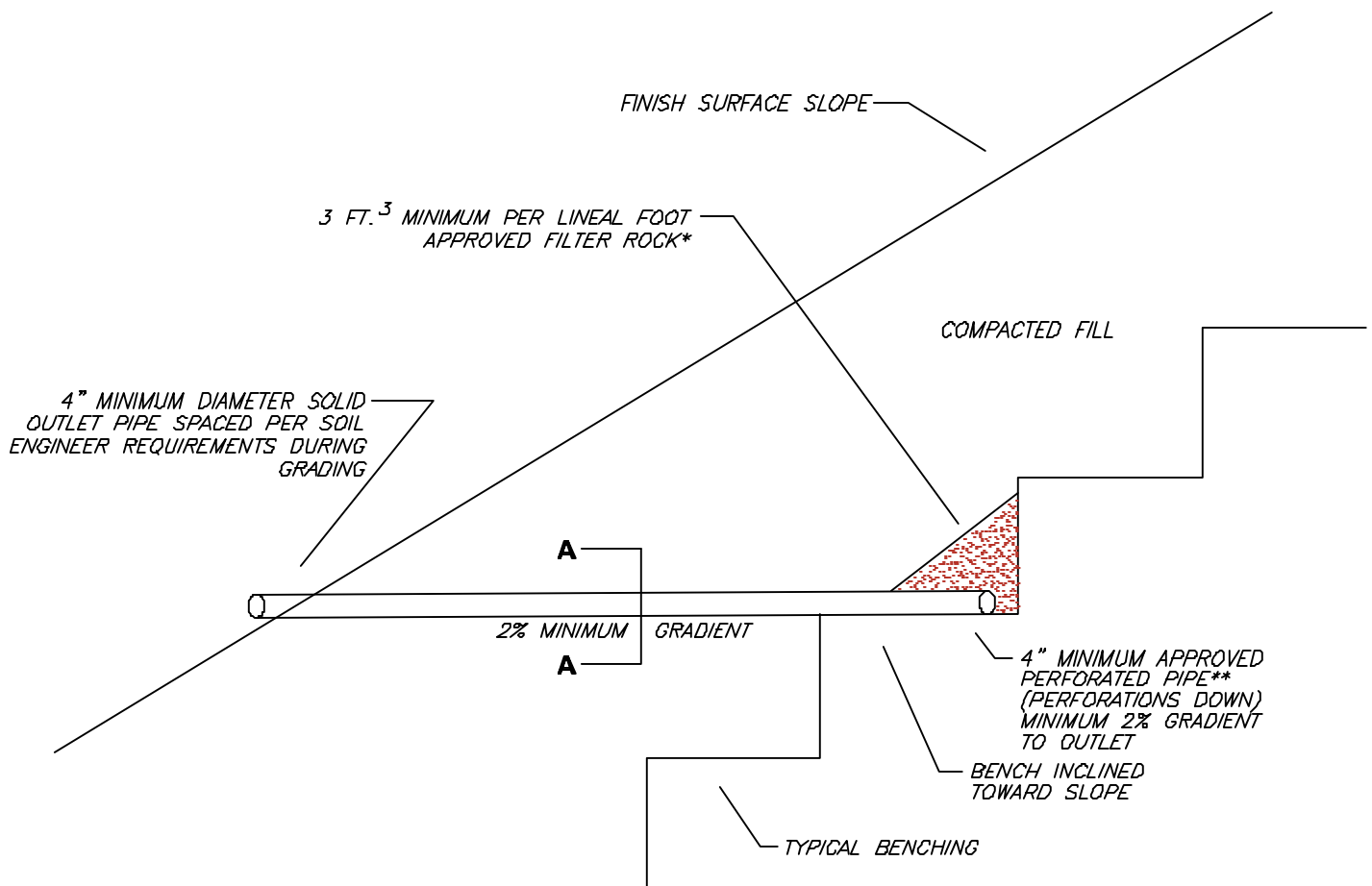
*NOTE: AGGREGATE TO MEET FOLLOWING
SPECIFICATIONS OR APPROVED EQUAL:

SIEVE SIZE	PERCENTAGE PASSING
1 1/2"	100
1"	5-40
3/4"	0-17
3/8"	0-7
NO. 200	0-3

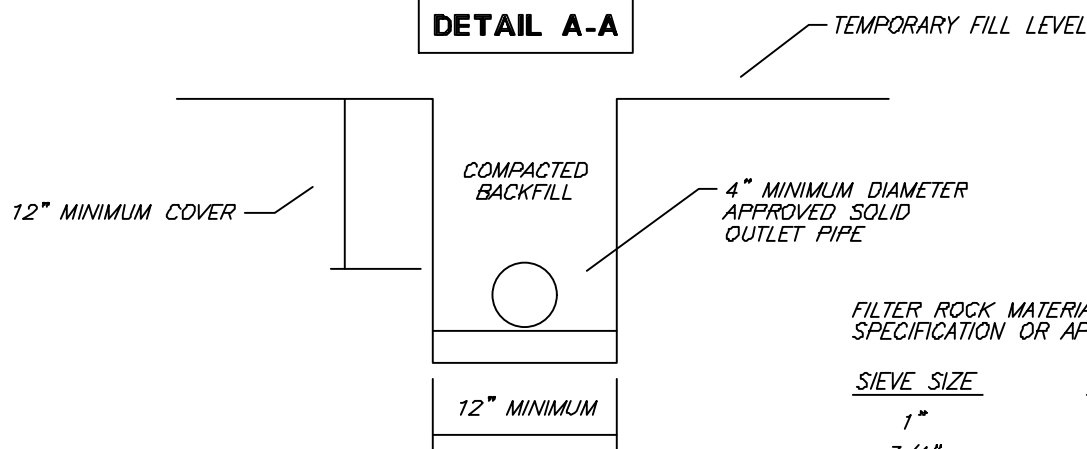


BACKDRAIN DETAIL (GEOFABRIC)

GENERAL EARTHWORK AND
GRADING SPECIFICATIONS
SHEET 7



DETAIL A-A



****APPROVED PIPE TYPE:**

SCHEDULE 40 POLYVINYL CHLORIDE
(P.V.C.) OR APPROVED EQUAL.
MINIMUM CRUSH STRENGTH 1000 PSI.

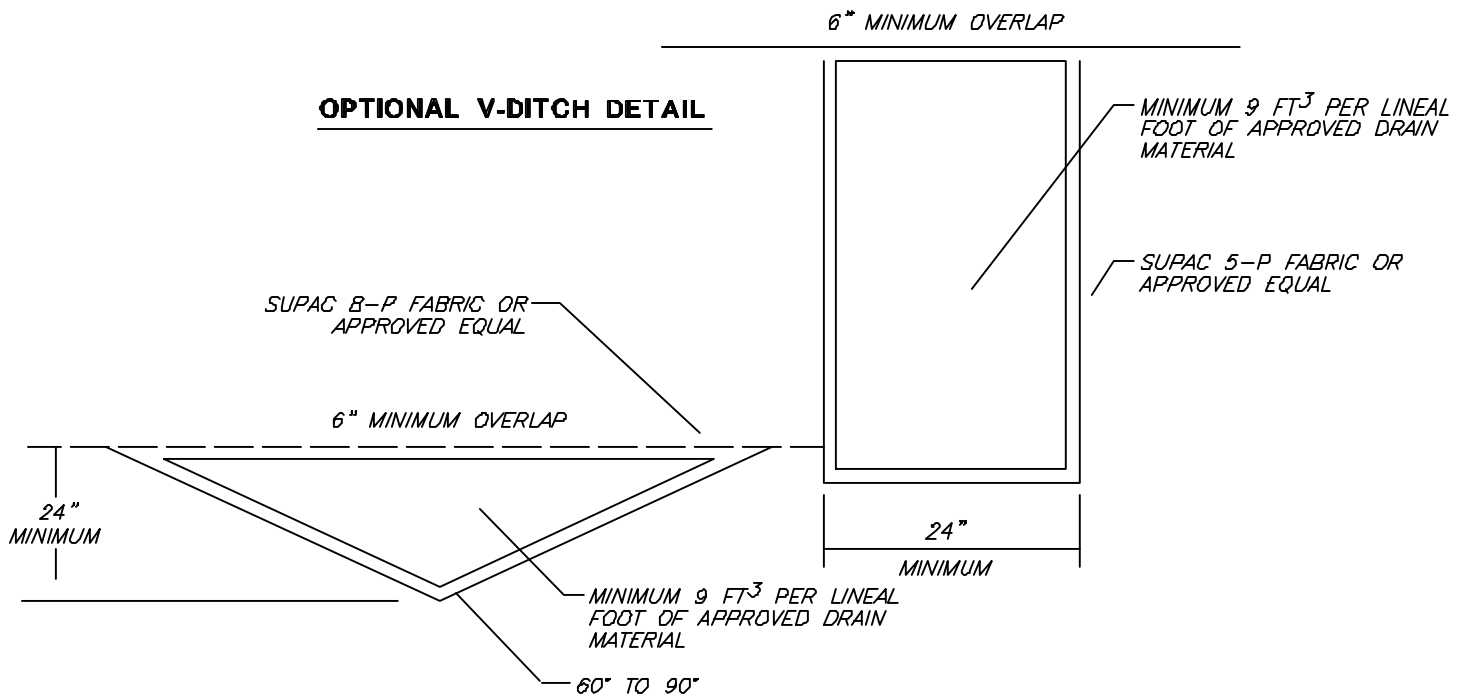
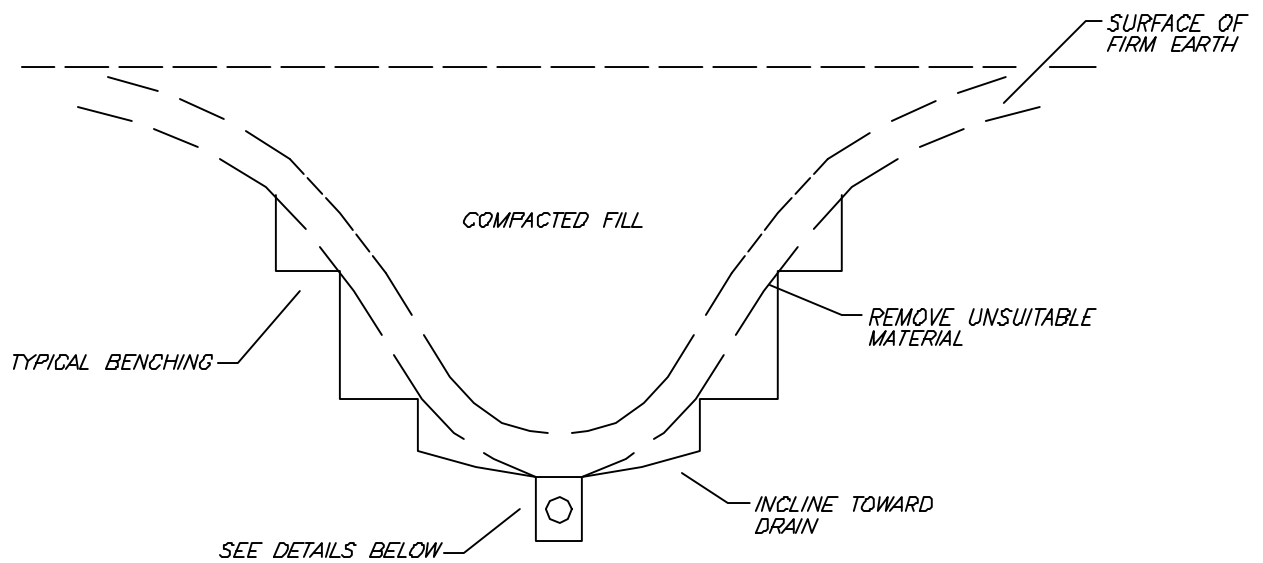
FILTER ROCK MATERIAL TO MEET FOLLOWING
SPECIFICATION OR APPROVED EQUAL:

<u>SIEVE SIZE</u>	<u>PERCENTAGE</u>
1"	100
3/4"	90-100
3/8"	40-100
NO. 4	25-40
NO. 30	5-15
NO. 50	0-7
NO. 200	0-3



TYPICAL BACKDRAIN DETAIL

GENERAL EARTHWORK AND
GRADING SPECIFICATIONS
SHEET 8



DRAIN MATERIAL TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUAL:

SIEVE SIZE	PERCENTAGE PASSING
1-1/2"	88-100
1"	5-40
3/4"	0-17
3/8"	0-7
NO.:200	0-3

ADD MINIMUM 4" DIAMETER APPROVED PERFORATED PIPE WHEN GRADIENT IS LESS THAN 2%

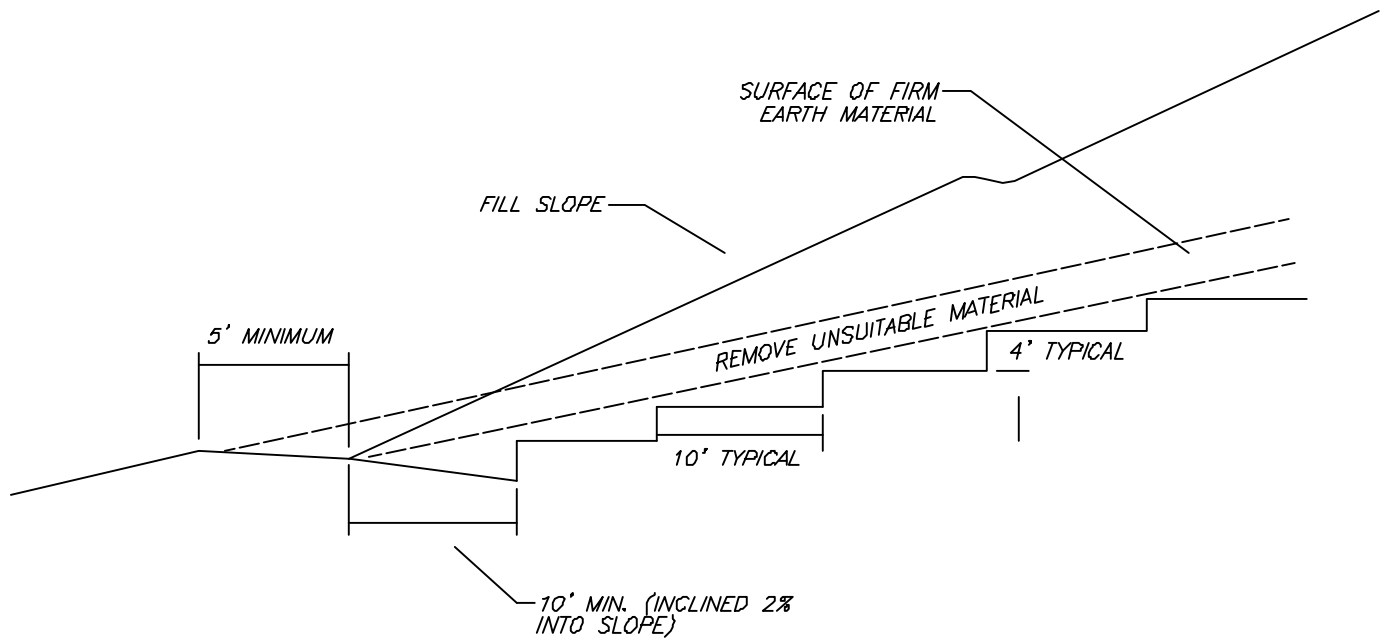
APPROVED PIPE TO BE SCHEDULE 40 POLY-VINYL-CHLORIDE (P.V.C.) OR APPROVED EQUAL. MINIMUM CRUSH STRENGTH 1000 psi.



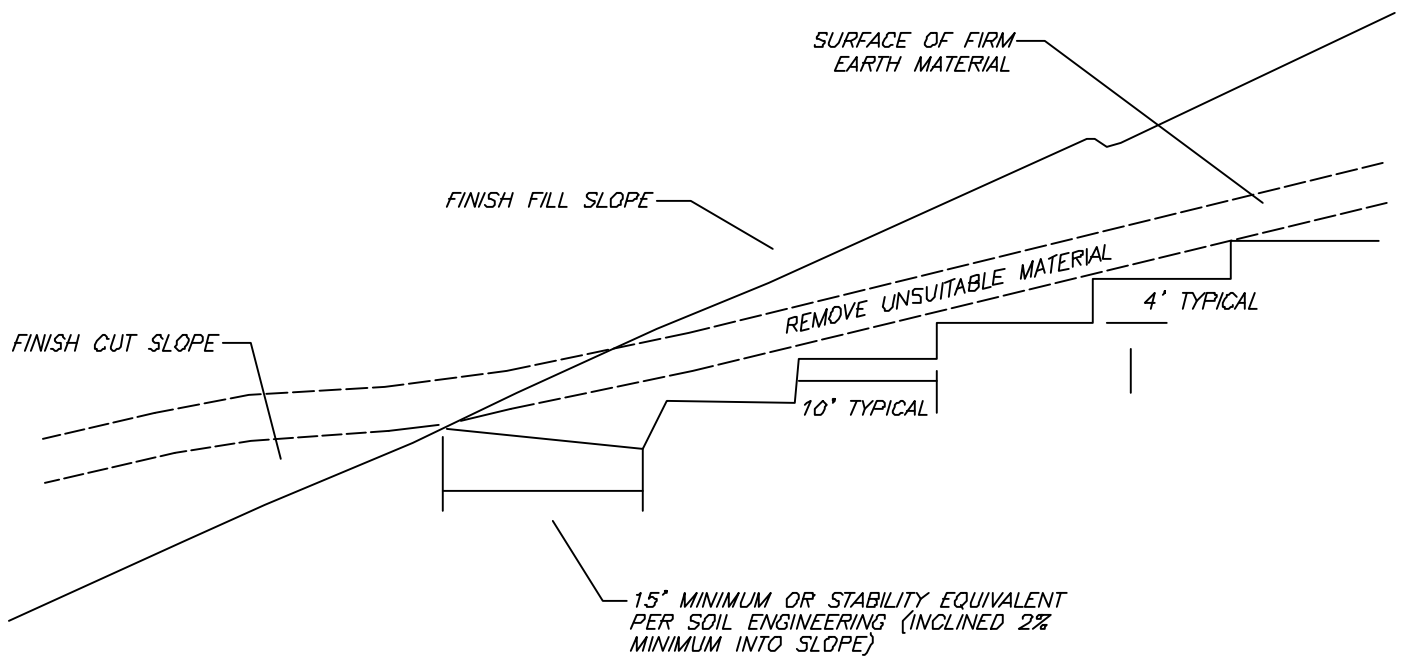
GEOFABRIC SUBDRAIN DETAIL

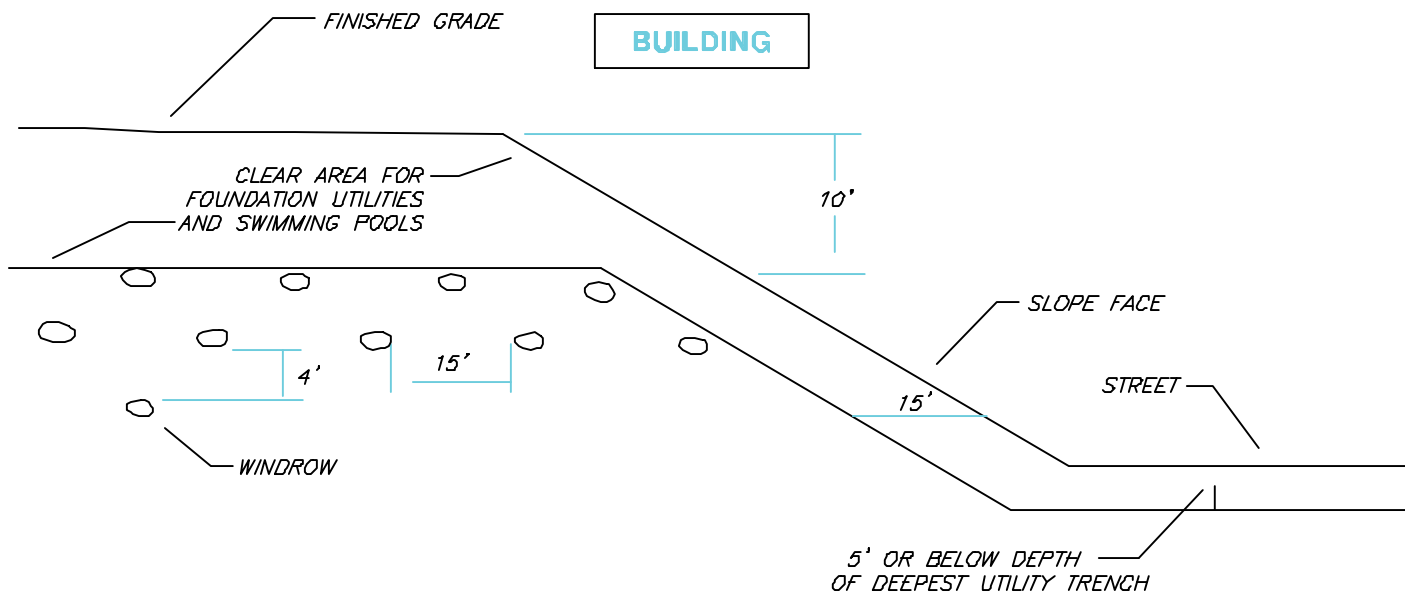
GENERAL EARTHWORK AND
GRADING SPECIFICATIONS
SHEET 9

BENCHING FILL OVER NATURAL

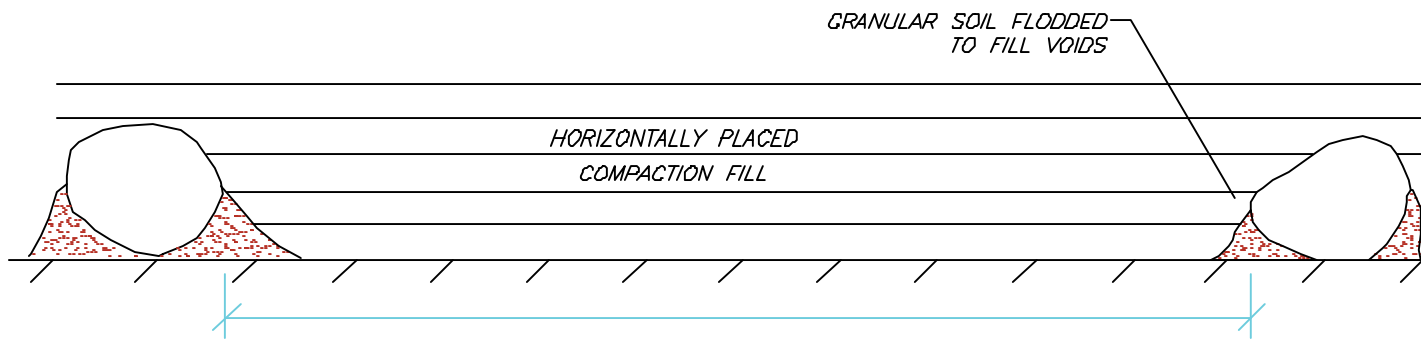


BENCHING FILL OVER CUT

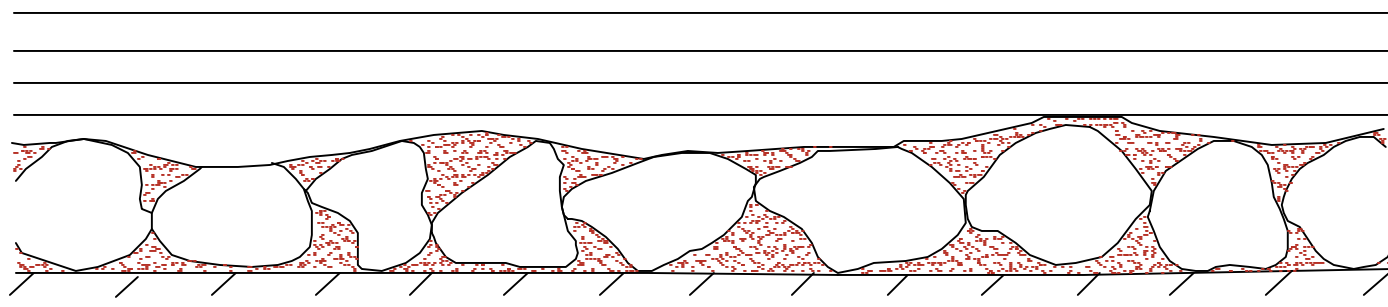


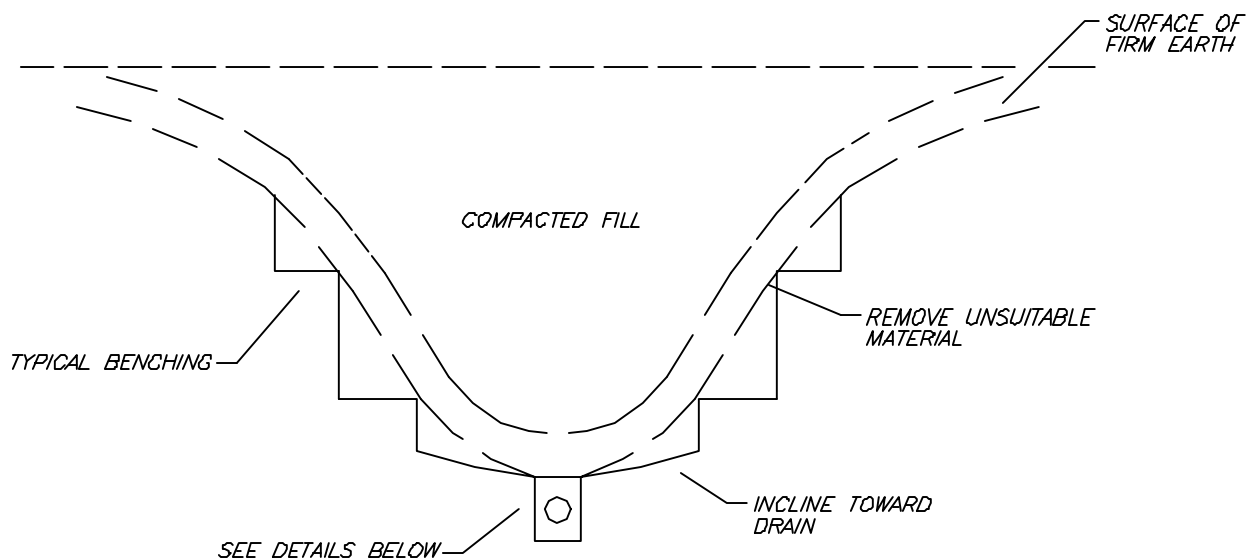


TYPICAL WINDROW DETAIL (EDGE VIEW)

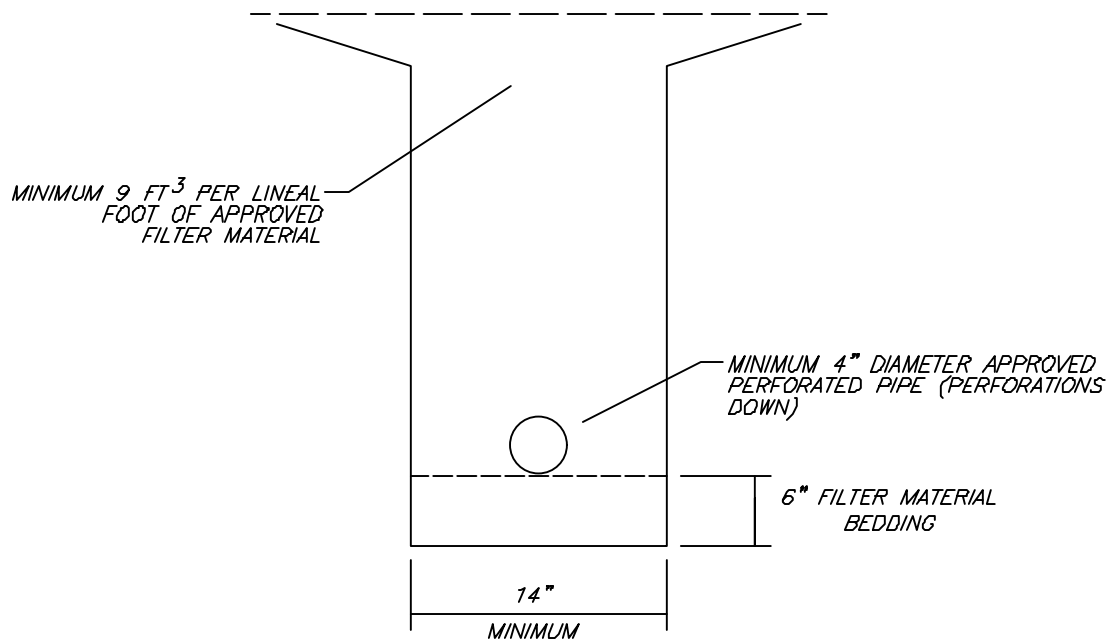


PROFILE VIEW





TRENCH DETAIL



FILTER MATERIAL TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUAL:

SIEVE SIZE	PERCENTAGE
1"	100
3/4"	90-100
3/8"	40-100
NO. 4	25-40
NO. 30	5-15
NO. 50	0-7
NO. 200	0-3

APPROVED PIPE TO BE SCHEDULE 40 POLY-VINYL-CHLORIDE (P.V.C.) OR APPROVED EQUAL. MINIMUM CRUSH STRENGTH 1000 psi.

PIPE DIAMETER TO MEET THE FOLLOWING CRITERIA. SUBJECT TO FIELD REVIEW BASED ON ACTUAL GEOTECHNICAL CONDITIONS ENCOUNTERED DURING GRADING.

LENGTH OF RUN	PIPE DIAMETER
UPPER 500'	4"
NEXT 1000'	6"
> 1500'	8"



TYPICAL CANYON SUBDRAIN DETAIL

GENERAL EARTHWORK AND
GRADING SPECIFICATIONS
SHEET 12

