

October 2, 2018

ADDENDUM # 3

To Whom It May Concern:

Concerning the **"PSJA ISD AGRICULTURAL FACILITY PHASE I BID # 18-19-003"** to be opened at 4:00p.m., Thursday, OCTOBER 4, 2018. Please consider the following:

PLEASE SEE ATTACHMENT

For any questions pertaining to these changes, please contact Janet Robles, Chief Financial Officer or Monique Richie, Purchasing Secretary at (956) 354-2000. Please include a signed copy of the **"ADDENDUM ACKNOWLEDGMENT FORM # 3"** with your bid / proposal.

Sincerely,



Emily Garza
Director of Purchasing

ADDENDUM ACKNOWLEDGMENT FORM
(To Be Submitted)

October 2, 2018

This form is to acknowledge that I have received **ADDENDUM # 3 – “PSJA ISD AGRICULTURAL FACILITY PHASE I BID # 18-19-003”** to be opened at 4:00P.M., Thursday, October 4, 2018. Please sign and submit with bid / proposal package.

COMPANY NAME:

AUTHORIZED SIGNATURE:

AUTHORIZED SIGNATURE (PRINT):

ADDRESS:

CITY / STATE / ZIP:

TELEPHONE NUMBER:

FAX NUMBER:

**ADDENDUM NUMBER THREE (3)
TO THE PLANS AND SPECIFICATIONS FOR:**

October 2, 2018



**PSJA Agricultural Facility – Phase I
PSJA ISD
Bid #
Project No. 16.08**

GIGNAC & ASSOCIATES
416 STARR STREET
CORPUS CHRISTI, TEXAS 78401
(361) 884-2661

GIGNAC & ASSOCIATES
3700 N. 10th STREET, SUITE 205
McALLEN, TEXAS 78501
(956) 686-0100

This addendum is generally separated into sections for convenience; however, all contractors, subcontractors, materialmen, and other parties shall be responsible for reading the entire addendum. The failure to list an item or items in all affected sections of this addendum does not relieve any party affected from performing as per instructions, provided that the information is set forth any time, any place in this addendum. These documents shall be attached to and become a part of the contract documents for this project.

SPECIFICATION ITEMS:

Item S-1

RFI: The spec. calls out for the glass to be 1-5/16" which is not necessary this far inland and will not fit in the window system spec'd. Would you want to use 1" overall glass with the same makeup (Solarban 70XL (#2) Azuria Tempered, 1/2 Airspace, 1/4" Clear Tempered) or change opening system to accommodate the wider glass?

Sheet A-500

Refer to Sheet A-500 regarding window thickness, 1" thickness will be used.

Item S-2

RFI: The Alternate Bid Form only indicates one Alternate; will this sheet be revised so that we have space for both Alternates?

Section 004323 Alternates Form

Yes, Refer to attached updated Section 004323 Alternates Form.

Item S-3

RFI: How many copies do we provide at bid? (Bid Proposal & other required information).

RFI: How many copies of the bid proposal and other forms need to be provided for the bid?

Refer to front end section in Project Manual, 3 copies.

Item S-4

RFI: Can the HUB Subcontractor Plan be turned in 24 hours after the bid?

No, only the Subcontractor List. All other forms required must be submitted at designated time.

Item S-5

RFI: The Section 13125 includes elevated Bleachers and a Press Box specifications for an 8 foot x 15 foot box. However there are no elevations or plan views that indicate a press box to be included with the bleachers. Please confirm that no press box is to be included with this scope of work.

Void Section 2.03 in Specification 13125, no press box shall be required.

Item S-6

RFI: On sheet AS102 detail 7 depicts a rolling gate which is constructed of chain link fencing. Its noted that chain link fencing is utilized throughout the project. Specification 32 31 13 section 2.5 calls for Industrial Horizontal-Slide Gates. Please advise which material/detail should be used for the main entrance gate.

Under Specification 323113, section 2.5 INDUSTRIAL HORIZONTAL-SLIDE GATES, part A General, point 1 Classification shall be Rolling Gate in lieu on Cantilever.

Item S-7

RFI: Alternate 2 calls for concrete paving in lieu of asphalt. Please confirm that Alternate 2 is to provide a price to change only the base bid Asphalt area to concrete and not to include the additional parking area (shown on plan east side by Veterans Blvd).

RFI: Sheet C-10 is titled Alternate 3. please clarify if in fact there is an Alternate 3.

Section 012300 Alternates & Sheet C-10

Refer to Section 012300 Alternates regarding what is listed under Alternate 1, Alternate 2, and Alternate 3. Also see attached revised Sheet C-10 for clarity.

CLARIFICATION ITEMS:**Item C-1**

RFI: The Facility will not have climate control in the open area as shown in the mechanical drawings. Will the fire sprinkler system require a wet or dry system? Please confirm.

Sheet FP-100

Dry system, See revised Sheet FP-100

Item C-2

RFI: In regard to the fire sprinkler piping, should black steel pipe be installed as shown on Part 2.02A of the specifications (Sheet FP-200) or galvanized pipe since the system will be exposed? Please confirm.

Sheet FP-100 & FP-200

Galvanized Pipe, See revised Sheet FP-100 and FP-200 for clarification.

Item C-3

RFI: We would like to get clarification on the 'PSJA ISD Agricultural Facility' Project. Addendum #1 asks for 850 sq. ft. of Hydromulch, but our calculations with the provided plan gave us a total of 52,763.991 sq. ft. We would like to get clarification on the provided area to give an accurate pricing for this bid proposal.

Section 329300 Plant Materials

Refer to revised Section 329300 Plant Materials.

PLAN ITEMS:

Item P-1

RFI: See attached sheet S2.2 alternate #1 foundation has no slab in Exercise Arena. What do you want for general contractor to place in Exercise Arena for example top soil, sand, etc.... . Please verify/clarify.

Sheet S2.2-R2

Refer to revised Sheet S2.2-R2 for clarification regarding slab in Exercise Arena.

Owner has stated earth and 6" of sand for the area where the animals will exercise in the arena.



Agricultural Facility

SECTION 004323 - ALTERNATES FORM

PART 1 - Alternates Form

1.1 BID INFORMATION

- A. Bidder: _____.
- B. Project Name: PSJA Agricultural Facility Phase I
- C. Project Location: +/- 2300 S. I Rd., Pharr, TX 78577
- D. Owner: Pharr, San Juan, Alamo ISD
- E. Owner Project Number: #18-19-003
- F. Architect: Gignac & Associates
- G. Architect Project Number: 16.08

1.2 BID FORM SUPPLEMENT

- A. This form is required to be attached to the Bid Form.

1.3 DESCRIPTION

- A. The undersigned Bidder proposes the amount below be added to or deducted from the Base Bid if particular alternates are accepted by Owner. Amounts listed for each alternate include costs of related coordination, modification, or adjustment.
- B. The Bidder shall be responsible for determining from the Contract Documents the affects of each alternate on the Contract Time and the Contract Sum.
- C. Owner reserves the right to accept or reject any alternate, in any order, and to award or amend the Contract accordingly within 30 days of the Notice of Award unless otherwise indicated in the Contract Documents.
- D. Acceptance or non-acceptance of any alternates by the Owner shall have no affect on the Contract Time unless the "Schedule of Alternates" Article below provides a formatted space for the adjustment of the Contract Time.

1.4 SCHEDULE OF ALTERNATES

- A. Alternate No. **One**: Add Exercise Pavilion, additional parking lot, bleachers and its associated site work as shown in the contract documents.

1. ADD____ DEDUCT____ NO CHANGE____ .

2. _____ Dollars
(\$_____).

3. ADD____ DEDUCT____ calendar days to adjust the Contract Time for this alternate.

- B. Alternate No. **Two**: Provide concrete paving in lieu of asphalt paving in the base bid as shown in the contract documents.

1. ADD____ DEDUCT____ NO CHANGE____ .

2. _____ Dollars
(\$_____).

3. ADD____ DEDUCT____ calendar days to adjust the Contract Time for this alternate.

- C. Alternate No. **Three**: Provide concrete paving in lieu of the asphalt paving for the Alternate One parking lot as shown in the contract documents.

1. ADD____ DEDUCT____ NO CHANGE____ .

2. _____ Dollars
(\$_____).

3. ADD____ DEDUCT____ calendar days to adjust the Contract Time for this alternate.



Agricultural Facility

1.5 SUBMISSION OF BID SUPPLEMENT

- A. Respectfully submitted this ____ day of _____, 2018.
- B. Submitted By: _____ (Insert name of bidding firm or corporation).
- C. Authorized Signature: _____ (Handwritten signature).
- D. Signed By: _____ (Type or print name).
- E. Title: _____ (Owner/Partner/President/Vice President).

END OF SECTION 004323

Agricultural Facility

SECTION 012300 - ALTERNATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for alternates.

1.3 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.

1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.4 PROCEDURES

- A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated revisions to alternates.
- C. Execute accepted alternates under the same conditions as other work of the Contract.
- D. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

- A. Alternate No. One (1): Addition of exercise pavilion.
 1. Provide all material, equipment, and labor to construct the exercise pavilion, additional parking lot, associated flatwork, and bleachers. All associated architectural, structural, civil, and MEP work as shown in the drawings and specifications.
- B. Alternate No. Two (2): Concrete drives in lieu of asphalt
 1. Provide concrete paving in lieu of asphalt paving as indicated in the civil drawings and shown in the specifications.
- C. Alternate No. Three (3); Concrete top for Alternate One parking lot.
 1. Provide concrete paving in lieu of asphalt paving as indicated in the civil drawings and shown in the specifications for the **Alternate One parking lot addition**.

END OF SECTION 012300

Consultants:

CIVIL:
Melden & Hunt, Inc.

STRUCTURAL:
Green, Rubiano & Associates, Inc.

MEP:
Sigma HN Engineers, PLLC

LANDSCAPE:
LAN Scapes

PSJA ISD AGRICULTURAL FACILITY

PHARR-SAN JUAN-ALAMO INDEPENDENT SCHOOL DISTRICT

PHARR, TEXAS

Project Number: 16.08
Drawing Date: AUG. 28, 2018
Drawn:
Checked:
Scale:
ACAD File:

Revisions:

1 SHADED ALT. 2

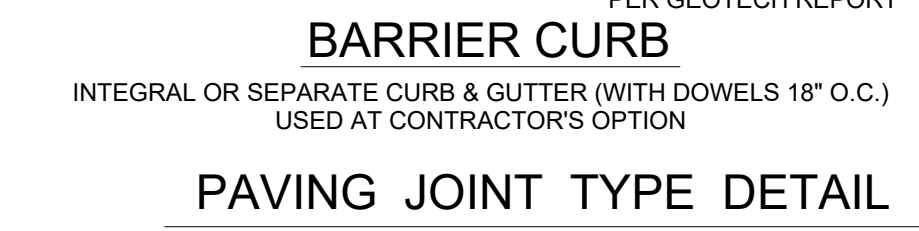
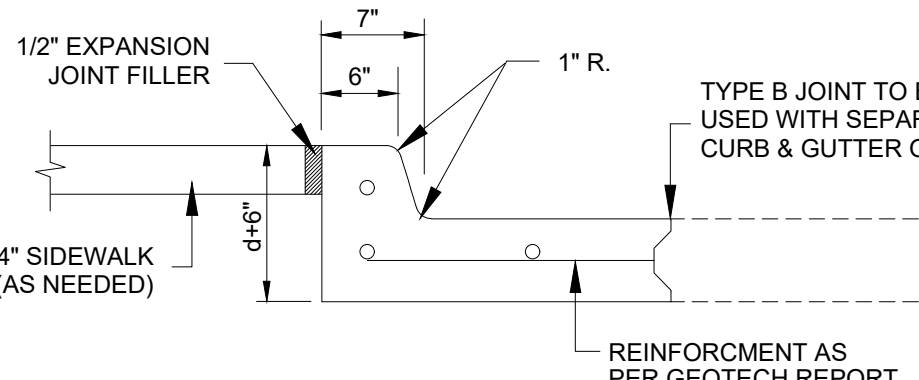
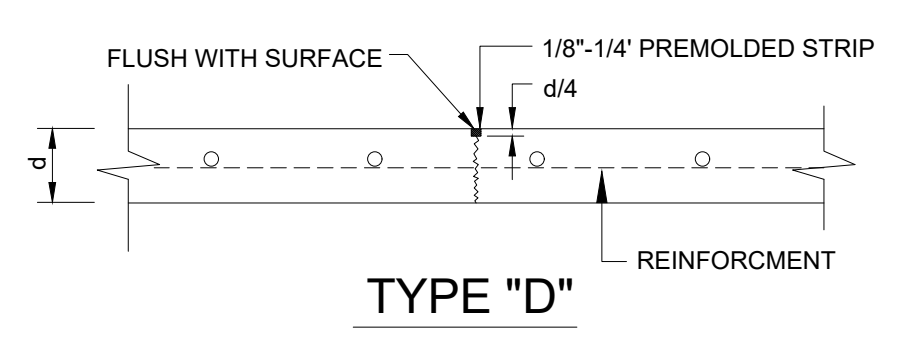
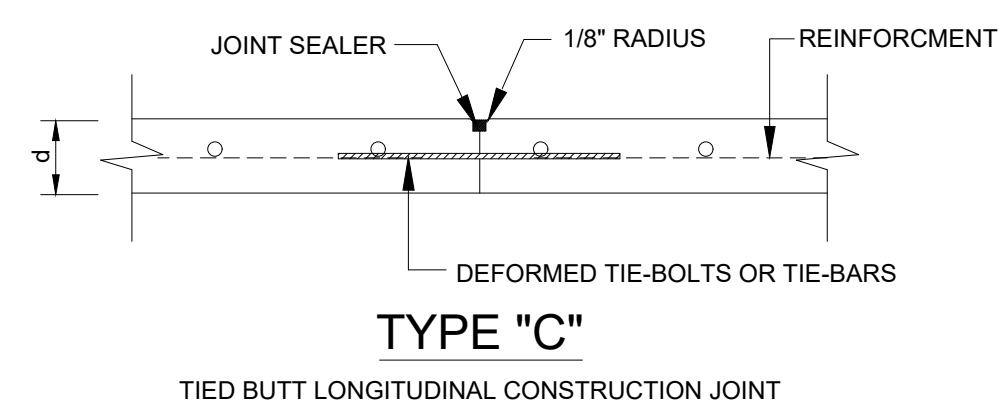
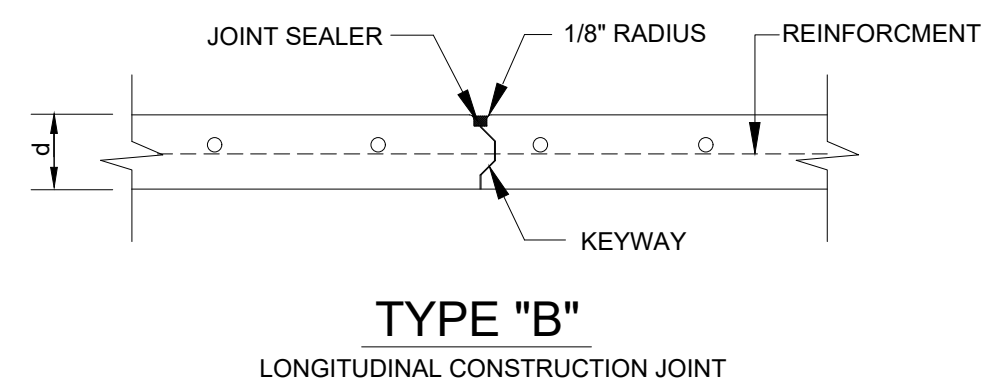
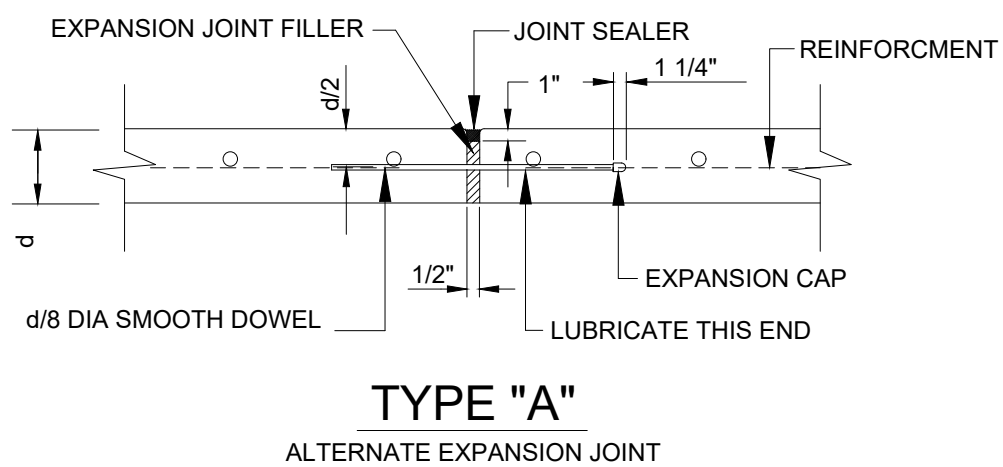
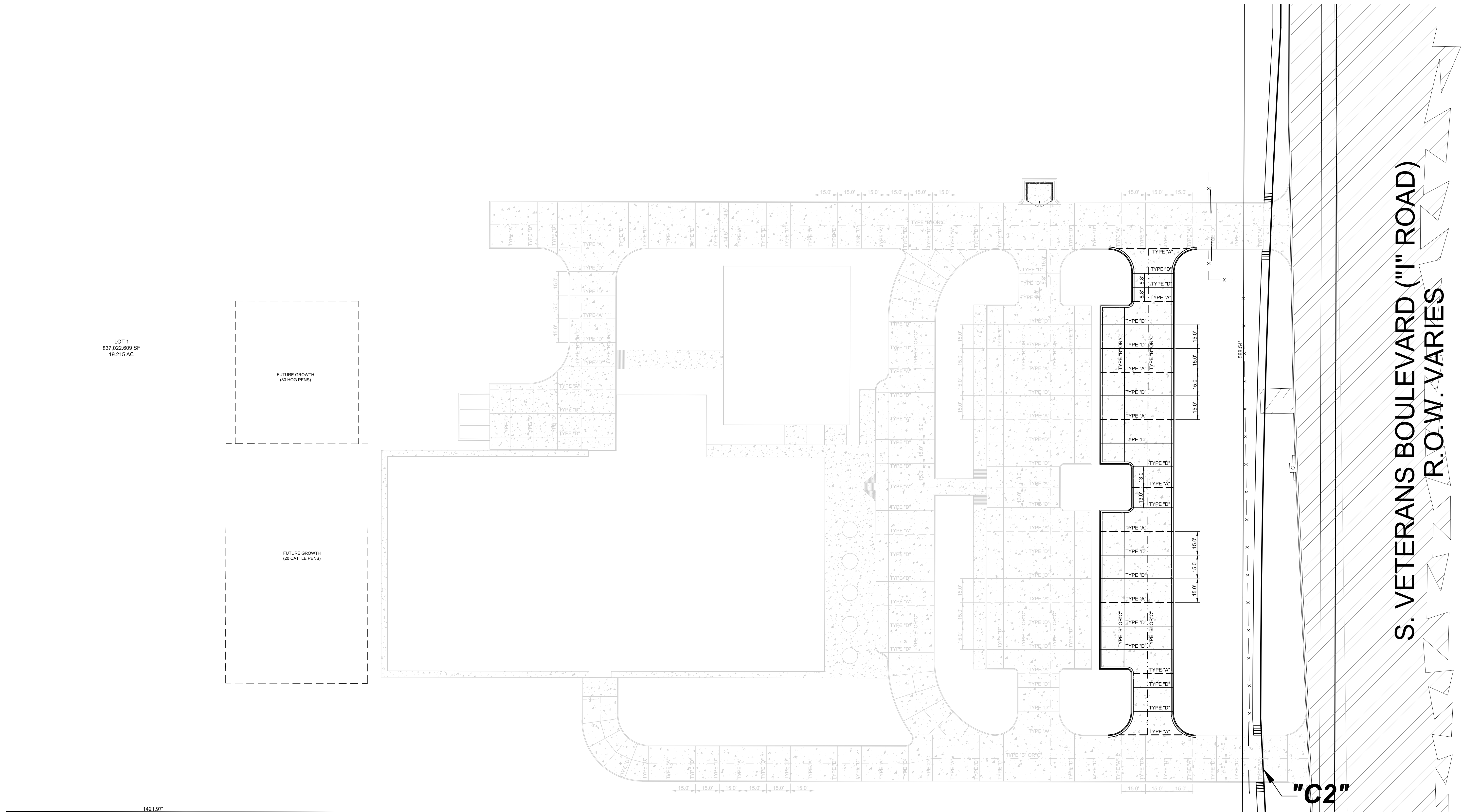
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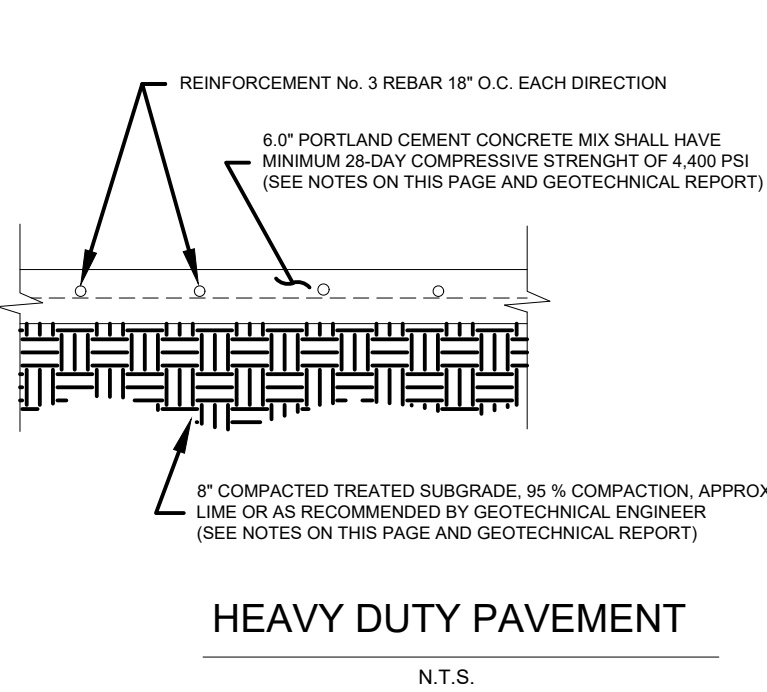
Sheet Title:

ALTERNATIVE 3

LEGEND
● FOUND No. 4 REBAR
○ FOUND PK NAIL
○ SET No. 4 REBAR WITH PLASTIC CAP STAMPED MELDEN & HUNT
--- LEASE AGREEMENT AREA
--- DOCUMENT No. 1439845, H.C.O.R.
--- ASPHALT AREA
--- SANITARY SEWER MANHOLE
--- WATER LINE
--- SANITARY SEWER LINE
--- R.O.W. - RIGHT OF WAY
--- H.C.O.R. - HIDALGO COUNTY MAP RECORDS
--- H.C.O.R. - HIDALGO COUNTY OFFICIAL RECORDS
--- N.E. COR. - NORTHEAST CORNER
--- N.W. COR. - NORTHWEST CORNER
--- P.O.B. - POINT OF BEGINNING
--- P.O.C. - POINT OF COMMENCING
--- Q.D. - QUOTED DEED
--- S.W.D. - SPECIAL WARRANTY DEED
--- N.T.S. - NOT TO SCALE



NOTES:
1. THE CONSTRUCTION JOINTING PLAN HAS BEEN DEVELOPED ASSUMING TYPICAL PAVING TECHNIQUES. IF THE CONTRACTOR'S EQUIPMENT OR PROCEDURES REQUIRE A DEVIATION, THE CONTRACTOR SHALL SUBMIT A REVISED JOINTING PLAN FOR REVIEW BY THE ENGINEER PRIOR TO CONSTRUCTION.
2. CONCRETE CURB MAY BE INTEGRAL OR AS PER DETAIL ON JOINTS.



NOTES FOR RIGID PAVEMENT:
CONTRACTOR TO REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION, INCLUDING RE-USE OF THE EXISTING SUBGRADE MATERIALS.
IN THE CASE OF A DISCREPANCY BETWEEN THE REPORT AND THESE PLANS, THE MORE STRINGENT OF THE TWO SHALL PREVAIL.
REINFORCING STEEL FOR PAVEMENT AS FOLLOWS:
HEAVY DUTY: #4 BARS AT 12 IN. (LONGIT.) 24 IN. (TRANSV.)
CONTROL JOINT SPACING:
MAXIMUM SPACING AT 10 FEET FOR 5 INCH PAVEMENT.
MAXIMUM SPACING AT 15 FEET FOR 6.5 INCH PAVEMENT.
IF SAWCUT, CONTROL JOINTS SHOULD BE CUT WITHIN 8 TO 12 HOURS OF CONCRETE PLACEMENT. ALL JOINTS MUST BE SEALED.

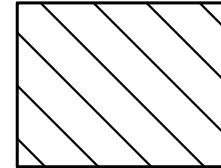
SIDEWALK NOTES:

SIDEWALK GRADIENT SHALL NOT EXCEED 1:20, WITH 2% CROSS SLOPES
SIDEWALK CONCRETE SHALL BE 5 SACK CEMENT MIX AT CITY WALKS AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT PRIVATE WALKS
CONTRACTOR SHALL VERIFY EXISTENCE AND LOCATION OF EXISTING UTILITY LINES WITH APPROPRIATE COMPANIES TO AVOID PLACING SIDEWALKS ON TOP OF LINES
PROVIDE DROP CURBS AT INTERSECTIONS.
CONTRACTOR SHALL COMPLY WITH LATEST REGULATIONS AS SET FORTH IN AMERICANS WITH DISABILITIES ACT (ADA).

RAMP NOTES:

1. WHEELCHAIR RAMPS ARE TO BE LOCATED AT CROSSWALK AREAS AS DESIGNATED ON THE PLAN. ENGINEER CAN ADJUST LOCATIONS FOR SAFETY OR UTILITY CLEARANCE.
2. SURFACE TEXTURE OF WHEELCHAIR RAMP SHALL BE OBTAINED BY TOOL FINISH TRANSVERSE TO THE SLOPE OF THE RAMP.
3. SLOPES SHALL BE UNIFORM WITH NO ABRUPT CHANGES IN GRADES. NORMAL GUTTER LINE PROFILE SHOULD BE MAINTAINED THROUGH THE AREA OF THE RAMP.
4. WHEEL CHAIR RAMPS SHALL BE MEASURED AND PAID AS CONCRETE SIDEWALK AND CONCRETE CURB AND GUTTER, AS APPLICABLE.
5. SIDEWALK CONCRETE SHALL BE 5 SACK MIX AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 P.S.I.
6. ALL CONCRETE WORK SHALL BE TREATED WITH MEMBRANE CURING COMPOUND AFTER SURFACE TEXTURE HAS BEEN COMPLETED.
7. 4" X 4" No. 6 WIRE MESH SHALL BE USED FOR REINFORCING.
8. ALL RAMPS SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, DARK VERSUS LIGHT. THE MATERIAL USED TO PROVIDE THE CONTRAST SHALL BE AN INTEGRAL PART OF THE RAMP.

LEGEND:



LIGHT HAZARD FOR CLASS ROOMS, OFFICES, CORRIDORS, GYMNASIUM, CAFETERIA, AUDITORIUM (EXCEPT STORAGE AREA), LIBRARY (EXCEPT LARGE STACK ROOM AREAS), DESIGN DENSITY IS 0.10 GPM/SQ.FT. 100 GPM HOSE ALLOWANCE DESIGN AREA=1500 SQ. FT.

REVISIONS:



- 18.10.02 RFI. ADDED NOTE FOR FIRE SPRINKLER SYSTEM TO BE DRY TYPE.

GENERAL NOTES:

- REFER TO SHEET FP-200 FOR AUTOMATIC FIRE SPRINKLER SYSTEM PERFORMANCE SPECIFICATIONS NOTES.

KEY NOTES:

- PROPOSED FIRE SPRINKLER SUPPLY LINE, REFER TO CIVIL UTILITY PLAN FOR CONTINUATION OF PIPING. PIPE AND BACK FLOW PREVENTION OF LINE SHALL BE SIZED BY A LICENSED FIRE SPRINKLER DESIGNER. CIVIL ENGINEER SHALL COORDINATE WITH FIRE SPRINKLER DESIGNER FOR WATER SUPPLY LINE REQUIREMENTS AND FIRE DEPARTMENT CONNECTION TO MEET NFPA 13 INSTALLATION REQUIREMENTS.
- PROPOSED FIRE DEPARTMENT CONNECTION LINE. REFER TO UTILITY PLAN FOR CONTINUATION OF PIPING. PIPE SHALL BE SIZED BY A LICENSED FIRE SPRINKLER DESIGNER. CIVIL ENGINEER SHALL COORDINATE WITH FIRE SPRINKLER DESIGNER FOR WATER SUPPLY LINE REQUIREMENTS AND FIRE DEPARTMENT CONNECTION TO MEET NFPA 13 INSTALLATION REQUIREMENTS. ALL FIRE PROTECTION PIPE SYSTEMS (INCLUDING ALL UNDERGROUND SERVICE PIPING) SHALL BE INSTALLED BY A LICENSED FIRE PROTECTION CONTRACTOR.

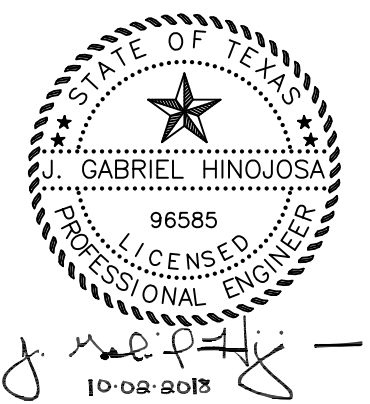
Consultants:

CIVIL:
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STRUCTURAL:
Green, Rubiano & Associates, Inc.

MEP:
Sigma HN Engineers, PLLC

LANDSCAPE:
LAN Scapes



PSJA ISD
AGRICULTURAL
FACILITY

PHARR-SAN JUAN-ALAMO
INDEPENDENT
SCHOOL DISTRICT

PHARR, TEXAS

Project Number: 18027
Drawing Date: SEP. 06, 2018
Drawn: CC/EM
Checked: GH
Scale:
ACAD File:

Revisions:

1
2
3

Sheet Title:

CONCEPTUAL FIRE
PROTECTION PLAN

SIGMA HN
ENGINEERS, PLLC
TBPE Firm No. F-14767
701 S. 15th Street
McAllen, Texas 78501

1.01. GENERAL

1.01.1. FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND RELATED ITEMS REQUIRED FOR THE COMPLETE DESIGN AND INSTALLATION OF AUTOMATIC SPRINKLER SYSTEM.

1.01.2. ALL PARTS OF THE BUILDING SHALL BE PROTECTED BY VET AUTOMATIC FIRE SPRINKLERS. THE SYSTEM SHALL BE HYDRAULICALLY CALCULATED, DENSITY SHALL BE IN ACCORDANCE WITH NFPA-13, NFPA 24 AND NFPA 231.

1.01.3. THE FIRE SPRINKLER CONTRACTOR SHALL OBTAIN A FLOW TEST FROM THE CITY, PERFORMED WITHIN THE LAST 12 MONTHS TO VERIFY ADEQUATE WATER SUPPLY FOR THE FIRE SPRINKLER SYSTEM PRIOR TO BIDDING.

1.01.4. THE FIRE SPRINKLER CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO DESIGNING AND INSTALLING SYSTEM.

1.01.5. WATER SUPPLY SHALL COME FROM A NEW FIRE LINE SERVICE COMPLETE WITH 12" WATER MAIN, 12" WATER SERVICE, 12" WATER METER, 12" WATER VALVE, 12" CITY, THE FIRE SPRINKLER CONTRACTOR SHALL PAY ALL TAP FEES, PERMITS, AND CHARGES NECESSARY FOR A COMPLETE AND APPROVED INSTALLATION.

1.02. QUALITY ASSURANCE

1.02.1. SPRINKLER SYSTEM SHALL COMPLY WITH ALL APPLICABLE STATE AND CITY CODES, NFPA REQUIREMENTS, AND OWNERS INSURANCE COMPANY REQUIREMENTS INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:

1.02.2. 1. UNIFORM BUILDING CODE

2. NFPA CHAPTER 13, 24 & 231.

3. LIFE SAFETY CODE NFPA-101.

4. OWNERS INSURANCE UNDERWRITER REQUIREMENTS.

5. INTERNATIONAL FIRE CODE.

1.03. SUBMITTALS

1.03.1. SUBMIT A DETAILED WORKING DRAWINGS OF THE AUTOMATIC SPRINKLER SYSTEM.

1.03.2. SUBMIT DRAWINGS AND CALCULATIONS TO FIRE MARSHAL, AND OWNERS FOR REVIEW AND APPROVAL.

1.03.3. SUBMIT FOUR (4) COPIES OF APPROVED DRAWINGS AND CALCULATIONS TO THE ARCHITECT AND TWO (2) COPIES TO THE FIRE MARSHAL FOR THEIR REVIEW AND APPROVAL.

1.03.4. SUBMIT "CUTSHEET" SAMPLES OF SPRINKLER HEADS TO ARCHITECT FOR APPROVAL.

1.04. MATERIALS

1.04.1. ALL MATERIALS, EQUIPMENT, VALVES AND DEVICES INSTALLED OR FURNISHED UNDER THIS CONTRACT SHALL BE UNDERWRITERS LABORATORIES (UL) LISTED AND FACTORY MUTUAL (FM) APPROVED FOR USE BY THE AUTHORITIES, AGENCIES, CODES AND STANDARDS CITED IN THIS SECTION OF THE SPECIFICATIONS.

1.05. SPRINKLER PIPING SHALL BE USED WHERE APPROVED BY THE AUTHORITIES.

1.06. PIPING FROM 5/8" OUTSIDE BUILDING TO ALARM CHECK VALVE INSTALLATION SHALL BE SCHEDULE 40S BLACK STEEL PIPE WRAPPED WITH 3 MIL POLYETHYLENE.

1.07. HANGERS

1.07.1. PROVIDE NECESSARY UL APPROVED HANGERS TO SUPPORT THE SPRINKLER PIPINGS. HANGERS SHALL BE SPACED IN ACCORDANCE WITH REQUIREMENTS OF THE SPRINKLER MANUFACTURER.

1.08. SPRINKLERS

1.08.1. SPRINKLER HEADS IN AREAS WITH FINISHED CEILINGS SHALL BE PENDENT SPRINKLER HEADS PROVIDED WITH CHROME SIGHTGLASS AND SHALL BE EQUAL TO GRINNELL ISSUE "C" DURAPROD 1/2" ORifice AND UL FM LISTED.

1.08.2. HEADS IN AREAS WITHOUT CEILINGS AND WITH EXPOSED PIPING SHALL BE PENDENT SPRINKLER HEADS PROVIDED WITH CHROME SIGHTGLASS AND SHALL BE EQUAL TO GRINNELL QUICK RESPONSE MODEL "A" 1/2" ORifice AND UL FM LISTED.

1.08.3. HEAD IN VICINITY OF HEATING EQUIPMENT AND ELECTRICAL EQUIPMENT SHALL BE PENDENT SPRINKLER HEADS PROVIDED WITH CHROME SIGHTGLASS AND SHALL BE EQUAL TO GRINNELL QUICK RESPONSE MODEL "A" 1/2" ORifice AND UL FM LISTED.

1.09. FIRE ALARM SYSTEM

1.09.1. THE FIRE ALARM SYSTEM SHALL BE PROVIDED WITH RAISED LETTERING, "AUTOMATIC SPRINKLER" AND CHROME PLATE CALLS ATTACHED WITH SUFFICIENT AMOUNT OF CHAIN.

1.09.2. THE FIRE ALARM SYSTEM SHALL BE PROVIDED WITH RAISED LETTERING, "AUTOMATIC SPRINKLER" AND CHROME PLATE CALLS ATTACHED WITH SUFFICIENT AMOUNT OF CHAIN.

1.10. CHECK VALVES

1.10.1. CHECK VALVES SHALL BE EQUAL TO JENKINS 722, CRANE 375 OR WALWORTH 883F AND EQUIPPED WITH AN AUTOMATIC BALL DROP TO DRAIN THE LINE BETWEEN THE FIRE DEPARTMENT CONNECTION AND THE CHECK VALVE.

1.11. FLOW SWITCHES

1.11.1. PROVIDE A GRINNELL SERIES W/LOW FLOW SWITCH IN EACH SPRINKLER SYSTEM CONNECTION SERVING EACH SPRINKLER ZONE. SWITCHES SHALL BE SUITABLE FOR MONITORING IN THE FIRE ALARM SYSTEM.

1.12. MONITOR SWITCHES:

1.12.1. EACH MANUAL SECTIONALIZING VALVE AND SHUTOFF VALVE IN THE SPRINKLER SYSTEM SHALL BE PROVIDED WITH A GRINNELL F640 MONITORING SWITCH TO INDICATE WHETHER THE VALVE IS OPEN OR CLOSED. WIRING FROM SWITCHES TO THE FIRE ALARM SYSTEM WILL BE DONE UNDER DIVISION 16. THE SWITCH SHALL HAVE A TAMPER INDICATOR IF REMOVED FROM ITS MOUNTING OR THE HOUSING COVER IS REMOVED; IT SHALL SIGNAL AN ALARM WHEN THE VALVE POSITION IS ALTERED.

1.13. ALARM VALVE ASSEMBLIES:

1.13.1. THE ALARM VALVE ASSEMBLY SHALL BE EQUAL TO GRINNELL MODEL A-3 CONSISTING OF A SERVICE SHUTOFF VALVE, A CLAPPER TYPE MAIN CHECK VALVE, AN AUXILIARY SEAL (ALARM OUTLET), A RETARDING CHAMBER, AND ELECTRIC CIRCUIT CLOSER, GAUGES, CHECK VALVES, GATE VALVES, GLOBE OR ANGLE VALVES AND COCKS.

1.14. WATER MOTOR GOING:

1.14.1. WATER POWERED GONG WITH CLAPPER ROLLER, CLAPPER, STRAINER, WATER WHEEL SHALT, HANGING, COVER PLATES AND OTHER STANDARD COMPONENTS.

1.15. SPRINKLER PIPING:

1.15.1. PROVIDE A WALL MOUNTED SPRINKLER CABINET WITH A MINIMUM OF 12 SPRINKLERS OF EACH FLOW INSTALLED AND A SPRINKLER WRENCH. MOUNT SPRINKLER CABINET NEXT TO SPRINKLER ALARM VALVE.

1.16. DOUBLE CHECK BACKFLOW PREVENTER:

1.16.1. FURNISH AND INSTALL A DOUBLE-CHECK BACKFLOW PREVENTER ASSEMBLY WITH POST INDICATOR VALVE AND FIRE DEPARTMENT CONNECTION AS MANUFACTURED BY PARK EQUIPMENT, HOUSTON, TX, MODEL BPPF-1, OR APPROVED EQUAL.

1.17. DRIP PIPING

1.17.1. PIPING:

1.17.2. SCHED 40S 1/2" GALVANIZED STEEL PIPING.

1.17.3. DRIP PIPE VALVES:

1.17.4. STANDARD: UL 260.

1.17.5. DESIGN: DIFFERENTIAL PRESSURE TYPE.

1.17.6. MATERIAL: 1/4" 304 STAINLESS STEEL.

1.17.7. TRIM: SETS FOR AIR SUPPLY, DRAIN, PRIMING LINE, ALARM CONNECTIONS, BALL DRIP VALVES, PRESSURE GAUGES, PRIMING CHAMBER ATTACHMENTS, AND FILLLINE ATTACHMENT.

1.18. AIR COMPRESSOR:

1.18.1. STANDARD: UL'S "FIRE PROTECTION EQUIPMENT DIRECTORY" OF FM GLOBAL'S "APPROVED GUIDE".

1.18.2. MOTOR: HORSFORD-POWELL INTERNATIONAL.

1.18.3. POWER: 240VAC, 60HZ, SINGLE PHASE.

1.19. PRESSURE GAUGES:

1.19.1. STANDARD: UL 303.

1.19.2. DIAL SIZE: 3-1/2" TO 4-1/2" INCH DIAMETER.

1.19.3. PRESSURE GAUGE RANGE: 0 TO 250 PSI MINIMUM.

1.19.4. LABEL: WATER OR "AIR/WATER" LABEL ON DIAL FACE.

1.19.5. AIR SYSTEM PIPING GAUGE: INCLUDE RETARD FEATURE AND "AIR" OR "AIR/WATER" LABEL ON DIAL FACE.

CONTRACTOR SHALL INSTALL AN AUTOMATIC SPRINKLER SYSTEM FOR THE BUILDING IN ACCORDANCE WITH NFPA 13. INSTALLATION OF SPRINKLER SYSTEM SHALL BE APPROVED BY THE CITY ENGINEER AND THE FIRE DEPARTMENT AS APPROVED BY THE LOCAL FIRE MARSHALL AND THE OWNERS INSURANCE UNDERWRITER.

CONTRACTOR SHALL LOCATE IN LIGHT HAZARD AND ORDINARY HAZARD GROUP 1 AREA SHALL BE STANDARD ORifice TYPE WITH 1/2 INCH DIAMETER NOMINAL ORifice SIZE. IN LIGHT HAZARD GROUP 2 AREA SHALL BE STANDARD ORifice TYPE. AREA SHALL BE "LARGE ORifice TYPE" WITH 1/2 INCH NO.10 DIAMETER NOMINAL ORifice SIZE OR OTHER FM APPROVED AND UL LISTED SPRINKLERS AS APPROVED BY THE CITY ENGINEER AND THE FIRE DEPARTMENT.

CONTRACTOR SHALL INSTALL 10 POUND DRY CHEMICAL PORTABLE FIRE EXTINGUISHERS AND FIRE EXTINGUISHER CABINETS IN ACCORDANCE WITH NFPA 10. FIRE EXTINGUISHERS SHALL BE APPROVED BY THE CITY ENGINEER AND THE FIRE DEPARTMENT.

CONTRACTOR SHALL INSTALL A FIRE ALARM SYSTEM REQUIRED FOR LIFE SAFETY. THE SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH THE 2013 IBC, 2013 NFPA 72, 2013 NFPA 70, 2013 NFPA 780, 2013 NFPA 790, 2013 NFPA 795, 2013 NFPA 796, 2013 NFPA 797, 2013 NFPA 798, 2013 NFPA 799, 2013 NFPA 800, 2013 NFPA 801, 2013 NFPA 802, 2013 NFPA 803, 2013 NFPA 804, 2013 NFPA 805, 2013 NFPA 806, 2013 NFPA 807, 2013 NFPA 808, 2013 NFPA 809, 2013 NFPA 810, 2013 NFPA 811, 2013 NFPA 812, 2013 NFPA 813, 2013 NFPA 814, 2013 NFPA 815, 2013 NFPA 816, 2013 NFPA 817, 2013 NFPA 818, 2013 NFPA 819, 2013 NFPA 820, 2013 NFPA 821, 2013 NFPA 822, 2013 NFPA 823, 2013 NFPA 824, 2013 NFPA 825, 2013 NFPA 826, 2013 NFPA 827, 2013 NFPA 828, 2013 NFPA 829, 2013 NFPA 830, 2013 NFPA 831, 2013 NFPA 832, 2013 NFPA 833, 2013 NFPA 834, 2013 NFPA 835, 2013 NFPA 836, 2013 NFPA 837, 2013 NFPA 838, 2013 NFPA 839, 2013 NFPA 840, 2013 NFPA 841, 2013 NFPA 842, 2013 NFPA 843, 2013 NFPA 844, 2013 NFPA 845, 2013 NFPA 846, 2013 NFPA 847, 2013 NFPA 848, 2013 NFPA 849, 2013 NFPA 850, 2013 NFPA 851, 2013 NFPA 852, 2013 NFPA 853, 2013 NFPA 854, 2013 NFPA 855, 2013 NFPA 856, 2013 NFPA 857, 2013 NFPA 858, 2013 NFPA 859, 2013 NFPA 860, 2013 NFPA 861, 2013 NFPA 862, 2013 NFPA 863, 2013 NFPA 864, 2013 NFPA 865, 2013 NFPA 866, 2013 NFPA 867, 2013 NFPA 868, 2013 NFPA 869, 2013 NFPA 870, 2013 NFPA 871, 2013 NFPA 872, 2013 NFPA 873, 2013 NFPA 874, 2013 NFPA 875, 2013 NFPA 876, 2013 NFPA 877, 2013 NFPA 878, 2013 NFPA 879, 2013 NFPA 880, 2013 NFPA 881, 2013 NFPA 882, 2013 NFPA 883, 2013 NFPA 884, 2013 NFPA 885, 2013 NFPA 886, 2013 NFPA 887, 2013 NFPA 888, 2013 NFPA 889, 2013 NFPA 890, 2013 NFPA 891, 2013 NFPA 892, 2013 NFPA 893, 2013 NFPA 894, 2013 NFPA 895, 2013 NFPA 896, 2013 NFPA 897, 2013 NFPA 898, 2013 NFPA 899, 2013 NFPA 900, 2013 NFPA 901, 2013 NFPA 902, 2013 NFPA 903, 2013 NFPA 904, 2013 NFPA 905, 2013 NFPA 906, 2013 NFPA 907, 2013 NFPA 908, 2013 NFPA 909, 2013 NFPA 910, 2013 NFPA 911, 2013 NFPA 912, 2013 NFPA 913, 2013 NFPA 914, 2013 NFPA 915, 2013 NFPA 916, 2013 NFPA 917, 2013 NFPA 918, 2013 NFPA 919, 2013 NFPA 920, 2013 NFPA 921, 2013 NFPA 922, 2013 NFPA 923, 2013 NFPA 924, 2013 NFPA 925, 2013 NFPA 926, 2013 NFPA 927, 2013 NFPA 928, 2013 NFPA 929, 2013 NFPA 930, 2013 NFPA 931, 2013 NFPA 932, 2013 NFPA 933, 2013 NFPA 934, 2013 NFPA 935, 2013 NFPA 936, 2013 NFPA 937, 2013 NFPA 938, 2013 NFPA 939, 2013 NFPA 940, 2013 NFPA 941, 2013 NFPA 942, 2013 NFPA 943, 2013 NFPA 944, 2013 NFPA 945, 2013 NFPA 946, 2013 NFPA 947, 2013 NFPA 948, 2013 NFPA 949, 2013 NFPA 950, 2013 NFPA 951, 2013 NFPA 952, 2013 NFPA 953, 2013 NFPA 954, 2013 NFPA 955, 2013 NFPA 956, 2013 NFPA 957, 2013 NFPA 958, 2013 NFPA 959, 2013 NFPA 960, 2013 NFPA 961, 2013 NFPA 962, 2013 NFPA 963, 2013 NFPA 964, 2013 NFPA 965, 2013 NFPA 966, 2013 NFPA 967, 2013 NFPA 968, 2013 NFPA 969, 2013 NFPA 970, 2013 NFPA 971, 2013 NFPA 972, 2013 NFPA 973, 2013 NFPA 974, 2013 NFPA 975, 2013 NFPA 976, 2013 NFPA 977, 2013 NFPA 978, 2013 NFPA 979, 2013 NFPA 980, 2013 NFPA 981, 2013 NFPA 982, 2013 NFPA 983, 2013 NFPA 984, 2013 NFPA 985, 2013 NFPA 986, 2013 NFPA 987, 2013 NFPA 988, 2013 NFPA 989, 2013 NFPA 990, 2013 NFPA 991, 2013 NFPA 992, 2013 NFPA 993, 2013 NFPA 994, 2013 NFPA 995, 2013 NFPA 996, 2013 NFPA 997, 2013 NFPA 998, 2013 NFPA 999, 2013 NFPA 1000, 2013 NFPA 1001, 2013 NFPA 1002, 2013 NFPA 1003, 2013 NFPA 1004, 2013 NFPA 1005, 2013 NFPA 1006, 2013 NFPA 1007, 2013 NFPA 1008, 2013 NFPA 1009, 2013 NFPA 1010, 2013 NFPA 1011, 2013 NFPA 1012, 2013 NFPA 1013, 2013 NFPA 1014, 2013 NFPA 1015, 2013 NFPA 1016, 2013 NFPA 1017, 2013 NFPA 1018, 2013 NFPA 1019, 2013 NFPA 1020, 2013 NFPA 1021, 2013 NFPA 1022, 2013 NFPA 1023, 2013 NFPA 1024, 2013 NFPA 1025, 2013 NFPA 1026, 2013 NFPA 1027, 2013 NFPA 1028, 2013 NFPA 1029, 2013 NFPA 1030, 2013 NFPA 1031, 2013 NFPA 1032, 2013 NFPA 1033, 2013 NFPA 1034, 2013 NFPA 1035, 2013 NFPA 1036, 2013 NFPA 1037, 2013 NFPA 1038, 2013 NFPA 1039, 2013 NFPA 1040, 2013 NFPA 1041, 2013 NFPA 1042, 2013 NFPA 1043, 2013 NFPA 1044, 2013 NFPA 1045, 2013 NFPA 1046, 2013 NFPA 1047, 2013 NFPA 1048, 2013 NFPA 1049, 2013 NFPA 1050, 2013 NFPA 1051, 2013 NFPA 1052, 2013 NFPA 1053, 2013 NFPA 1054, 2013 NFPA 1055, 2013 NFPA 1056, 2013 NFPA 1057, 2013 NFPA 1058, 2013 NFPA 1059, 2013 NFPA 1060, 2013 NFPA 1061, 2013 NFPA 1062, 2013 NFPA 1063, 2013 NFPA 1064, 2013 NFPA 1065, 2013 NFPA 1066, 2013 NFPA 1067, 2013 NFPA 1068, 2013 NFPA 1069, 2013 NFPA 1070, 2013 NFPA 1071, 2013 NFPA 1072, 2013 NFPA 1073, 2013 NFPA 1074, 2013 NFPA 1075, 2013 NFPA 1076, 2013 NFPA 1077, 2013 NFPA 1078, 2013 NFPA 1079, 2013 NFPA 1080, 2013 NFPA 1081, 2013 NFPA 1082, 2013 NFPA 1083, 2013 NFPA 1084, 2013 NFPA 1085, 2013 NFPA 1086, 2013 NFPA 1087, 2013 NFPA 1088, 2013 NFPA 1089, 2013 NFPA 1090, 2013 NFPA 1091, 2013 NFPA 1092, 2013 NFPA 1093, 2013 NFPA 1094, 2013 NFPA 1095, 2013 NFPA 1096, 2013 NFPA 1097, 2013 NFPA 1098, 2013

FP-200

PLANT MATERIALS**I. TREES**

- A. (9 count) - Cedar Elm (*Ulmus crasifolia*)
4" caliper b&b 12' tall by 4.5' wide
- B. (4 count) - Cedar Elm
2 1/2" caliper 7.5' tall by 3' wide
- C. (9 count) - Silver Date Palm (*Phoenix sylvestris*)
10' clear trunk b&b
- D. (12 count) - Mexican Sycamore (*Platanus mexicana*)
30 gal, 8-10' tall by 3-3.5' spread
- E. (3 count) - Texas Persimmon (*Diospyros. texanum*)
3-3.5" caliper b&b 8-10' tall by 4-5' wide

II. SHRUBS

- A. (45 count) - Dwarf Barbados Cherry (*Malpighia puniceifolia*)
3gal. 12-15" tall by 12-across
- B. (14 count) - Green Cloud Sage (*leucophyllum frutescens*) 'Green Cloud'
3 gal. 24" tall 18" wide
- C. (30 count) - Lantana Radiation (*Lantana camara*) 'Radiation'
1 gal. 10" tall 12" wide
- D. (60 count) - Muhlenbergia Grass
1 gal.
- E. (12 count) - Bamboo Muhly (*Muhlenbergia dumosa*)
12" tall, full pot
- F. (48 count) - Gulf Muhly (*Muhlenbergia capillaris*)
8" tall, full pots

Agricultural Facility

G. (320 count) - Liriope spicata.

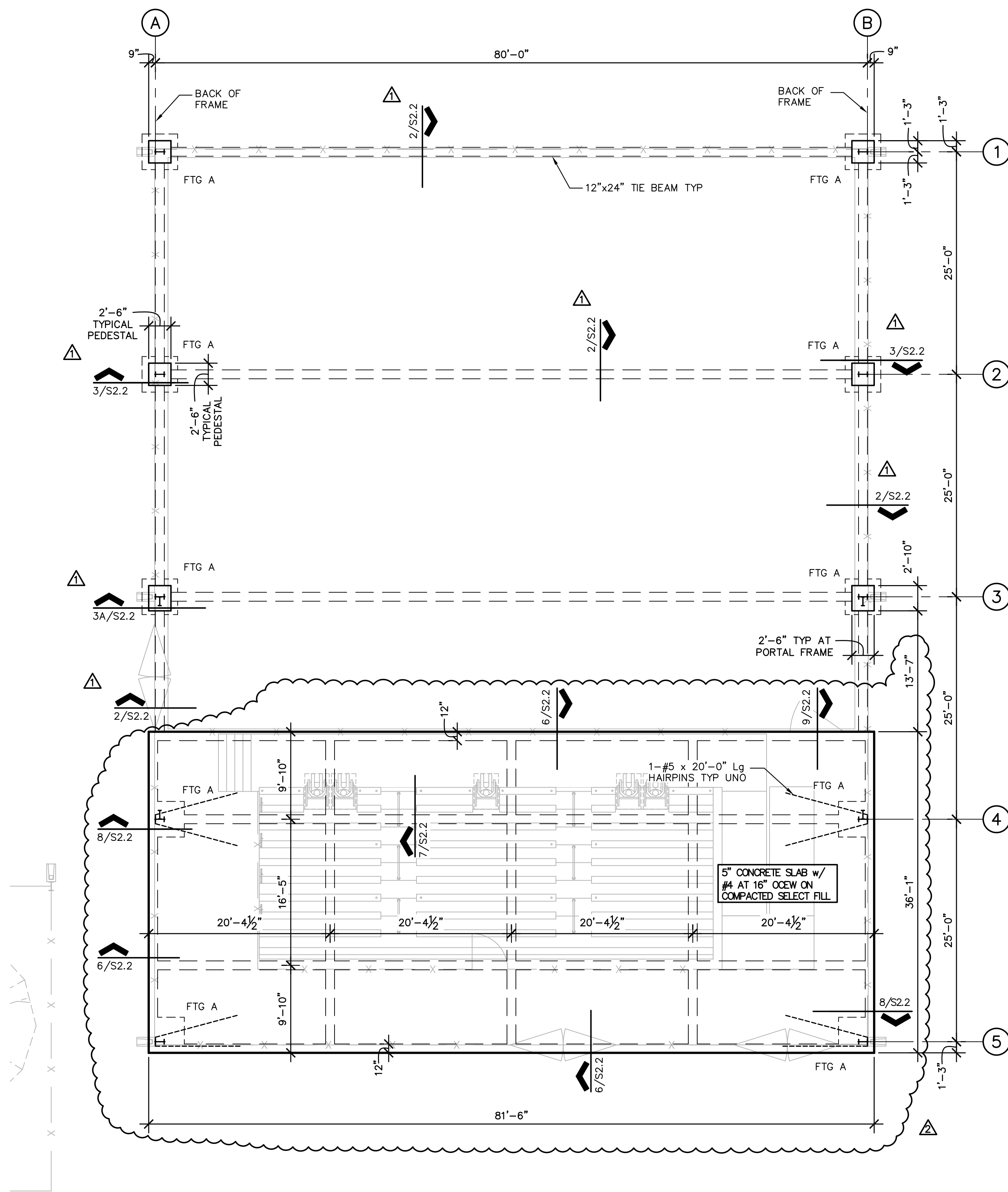
4" container 3.5" tall, pot full

H. Hydromulch 30

Refer to Sheet L-1.0 in Construction Documents regarding coverage of Hydromulch.

Note: If project is ready for landscape by March or later 100% Common Bermuda seed should be used. Soil temperature needs to be 72 degrees or higher for Bermuda seed germination. If landscape work is to be completed in the cooler months (October - April) a ratio of 60% Bermuda seed and 40% Rye seed is to be incorporated into the Hydromulch mix.

END OF SECTION 32 93 00



1 FOUNDATION PLAN 1/8" = 1'-0" ALT #1

- PLAN NORTH
- NOTES:
- REFERENCE ROOF FRAMING PLAN FOR COLUMN BASEPLATE LOCATIONS. FOUNDATION PLAN DIMENSIONS GENERALLY DENOTE GRADE BEAM CENTERLINE AND OUTSIDE FACE OF CONCRETE.
 - ALL CONDUIT GREATER THAN 1.1/2" IN DIAMETER SHALL BE RECESSED TO PROVIDE 1.1/2" CLEAR DISTANCE BETWEEN SLAB REBAR & CONDUIT.
 - MAINTAIN 2" MINIMUM CLEAR DISTANCE BETWEEN ALL CONDUIT IN SLAB.
 - A SINGLE CONDUIT (MAX 3" O.D.) MAY BE PLACED WITHIN THE BEAM CAGE. ALL CONDUIT IN BEAM CAGES TO BE TIED TO STIRRUPS MINIMUM OF 4" FROM HORIZONTAL BARS.
 - CRACK CONTROL JOINTS ARE NOTED ON THE PLANS. CONTRACTOR TO COORDINATE CHANGES WITH THE ENGINEER PRIOR TO FORMING FOUNDATION.
 - PLUMBING LINES SHALL NOT BE PLACED IN BOTTOM OF GRADE BEAM TRENCHES.
 - PLUMBING LINES PASSING THROUGH GRADE BEAMS SHALL BE SLEEVED. BEAMS SHALL BE DEEPENED AND BENT REBAR PROVIDED IF LOCATION OF DRAIN LINES REQUIRES CUTTING BOTTOM BARS. REFERENCE 15/S2.3.
 - ALL JOINTS TO BE CLEANED AND FILLED w/ SONOLASTIC SL1 (SONNEBORN).

MARK	SIZE	REINFORCEMENT
FTG A	4'-0" x 4'-0"	#5 AT 12" O.C.E.W.

