CONSTRUCTION OF NEW MUNICPAL SOFTBALL PARK REBID

PROJECT NO.: 08-18-C28-608

BID OPENING DATE: AUGUST 6, 2018 at 4:00 PM

A D D E N D U M N O. 1

Prospective bidders are advised that for purposes of this project, all original bid requirements and Addendum No. 1 requirements as expressed herein shall be considered part of the bid package. As such, bidders are advised to recognize and comply with all aspects of this bid.

Please see attached items as noted by project engineer

CONTRACTOR IS TO ACKNOWLEDGE ALL ADDENDUMS ON ORIGINAL BID PROPOSAL FORM

_____ _____
Signature, Acknowledge Add. #1 Date

_____
Company Name (Print/Type Name)

_____ July 27, 2018
Gerardo Noriega, CTPM Date
Director of Purchasing & Contracting

/

All Addenda issued in respect to this project shall be considered official changes to the original bidding documents. It shall be the Respondent(s) responsibility to ensure that all Addenda have been received. Furthermore, respondents are advised that they must recognize, comply with, and recognize all Addendums on bid proposal form. Respondent(s) signature on bid form shall be interpreted as the bidder's "recognition and compliance to" official changes as outlined by the City of McAllen and as such are made part of the original solicitation/bidding documents.

JULY 26, 2018
AVO 33348

ADDENDUM No 1
SOFTBALL FIELD FACILITIES
MUNICIPAL PARK
McALLEN, TEXAS

This Addendum shall be considered part of the Construction Documents and is issued to change, amplify, add to, delete from, or otherwise explain the plans and specifications. Where provisions of this Addendum differ from those of the original Construction Documents, this Addendum shall take precedence over the original plans and specifications and shall govern.

Addendum Acknowledgement signature block below. This form is to be signed and included in Bid Package.

QUESTIONS

1. Question:
   Will the new bleachers be taken out of this rebid? I do not see drawing L4.08 any longer in the documents. Will the bleachers being used just be the relocated ones? I do see the specifications (133125)
   Answer:
   New bleachers at new Field 5 and Field 6 have been removed from the project. The two existing bleachers from the old Field 1 (proposed playground area) are to be relocated to the new Field 4.

2. Question:
   What is the budget of the project?
   Answer:
   The project budget is $3 Million.

3. Question:
   Is the contractor responsible for construction staking or will the city provide it?
   Answer:
   It is the contractor's responsibility to provide construction staking services.

4. Question:
   When will construction begin?
   Answer:
   Groundbreaking will occur mid-October 2018, exact date will be determined at a later time.

5. Question:
   When is last day for questions?
   Answer:
   The last day for submitting questions will be Tuesday, July 31, 2018.

GENERAL

1. Added "Delta 1" symbols and clouds to identify all modifications made on plan sheets and specification index.
2. Added Alternate #5 (Add & Deduct) – Net Backstops

FRONT ENDS

1. Working days for this project has been changed to 148 days (7 months – excludes weekends and public holidays).
2. Bid Schedule has been updated to include notes and Alternate Bid Item #5 Net Backstops.
3. Added Laboratory Service Report by Terracon Report No. 88181117.0001 for topsoil analysis with fertilizer recommendations.

BID SCHEDULE

1. Added Alternate #5 (Add & Deduct) – Net Backstops
2. Added the following notes to bid schedule.

   "Notes:

   1. Refer to Geotechnical Report by Terracon Project No. 88175150 for all preparation requirements.
   2. All items are to be priced to be complete in place and fully functionally with all associated labor included.
   3. All mobilization, expected fees and permits are to be priced under each lump sum item.
   4. All items on plans and specifications shall be priced within this bid form.
   5. All alternates are to be filled out in order to be considered.
   6. If dewatering is required for installation of underground improvements. All operations and maintenance needed for removal of groundwater to properly install new improvements shall be subsidiary to the improvement being installed, no separate pay item.
3. Added "Number of Working Days to Complete Contract (not to exceed 148 working days)"

CLARIFICATIONS

1. As part of base bid, existing scoreboards on Field #1, Field #2 and Field #3 are to be removed by contractor. New scoreboards to be furnished and installed by contractor. Refer to Detail 1, Sheet L4.05.
2. As part of base bid, existing scorekeeper's table on Field #1, Field #2 and Field #3 are to be removed by contractor. New scorekeeper's table and overhead to be furnished and installed by contractor. Refer to Detail 2, Sheet L4.06.
3. Roof canopy of existing dugouts on Field #1, Field #2 and Field #3 are to be reused on new dugouts of same fields.

HALFF

PLAN SHEETS

Civil

C0.02 Added Dewatering Note.
If dewatering is required for installation of underground improvements. All operations and maintenance needed for removal of groundwater to properly install new improvements shall be subsidiary to the improvement being installed, no separate pay item.

C0.04 Existing Field 3's scoreboard is to be removed by contractor and relocated. Include within base bid.

C1.02 Flatwork leading to the playground and basketball court (Alternate) has been modified. Refer to Landscape plans for further dimension control.

C2.02 Modified elevation for the playground and basketball court flatwork (Alternate) to reflect site plan changes.

C3.02 Modified references files to reflect site plan flatwork changes.
Added Alternate 5 – Backstops Trench drains and underground system.

C4.02 Modified references files to reflect site plan flatwork changes.

C6.00 Modified references files to reflect site plan flatwork changes.

Architecture

A2.1 Added outline of Cupola wall above. Added RCP key note #7 & revised key note #8.

A2.2 Relocated ADA urinal, added ADA notes & dimensions.

A2.3 Relocated ADA urinal, added ADA notes & dimensions.

A3.1 Added Cupola & material call outs.

A4.1 Added wall section at Cupola. Added ADA notes & dimensions.

A4.2 Added wall detail at Cupola.

Structural

S3.0 Refer to the following structural ADD#1 NARRATIVE for a description of changes.

S4.0 Refer to the following structural ADD#1 NARRATIVE for a description of changes.

S5.0 Refer to the following structural ADD#1 NARRATIVE for a description of changes.

Mechanical

M1.01 Refer to the following mechanical ADDENDUM 1 NARRATIVE for a description of changes.

M2.01 Refer to the following mechanical ADDENDUM 1 NARRATIVE for a description of changes.

Electrical

E1.04 Refer to the following electrical ADDENDUM 1 NARRATIVE for a description of changes.

E3.04 Refer to the following electrical ADDENDUM 1 NARRATIVE for a description of changes.

Plumbing

P1.01 Refer to the following plumbing ADDENDUM 1 NARRATIVE for a description of changes.

P1.02 Refer to the following plumbing ADDENDUM 1 NARRATIVE for a description of changes.

Landscape Architecture

L2.02 Modified sidewalk and dimensions leading to playground area.

L3.02 Modified sidewalk leading to playground area.

L4.03 Added note to indicate Net Backstop as Alternate No. 5.

L4.04 Added note to indicate Net Backstop as Alternate No. 5.

L4.07 Revised Details 1 and 2 to indicate chain link fabric to be 9 gauge steel .

L4.08 NEW SHEET. Added sheet to include details for net backstop.

L4.09 NEW SHEET. Added sheet to include detail for net backstop.

L5.00 Revised Overall Plant Schedule to indicate new Grass Hydromulch quantity due to sidewalk modification.

L5.02 Modified sidewalk leading to playground area. Revised Plant Schedule to indicate new Grass Hydromulch quantity due to sidewalk modification.

Sub-bidders are hereby notified that this addendum shall be incorporated in their proposals, and it shall be construed that sub-bidders' proposals shall reflect with full knowledge, all items, changes and modifications to the Contract Documents herein specified.

NOTE: This form must be filled out completely (see section below) and submitted with your Bid Proposal.

WARNING: Failure of an Offeror to acknowledge receipt of this Addendum, as described herein, may result in REJECTION OF THE OFFER.

_____ACKNOWLEDGE RECEIPT OF ADDENDUM NO.1

OFFEROR AUTHORIZED SIGNATURE

_____ _____

OFFEROR PRINTED NAME COMPANY NAME

Number of working days to complete contract _____(not to exceed **__148__ working** days).

The undersigned agrees, unless hereinafter stated otherwise to furnish all materials as shown and specified in the Plans and Specifications.

Bidder hereby agrees to commence work under this contract within 10 days after notice to PROCEED is issued and complete the work within ____ Working days, except City recognized holidays.

DATE: _____

Respectfully submitted,

BY: _____
(Signature)

_____
(Type or Print Name)

_____
(Title)

_____
(Legal Company Name)

_____
(Address)

_____

_____
(Phone Number)

(Seal - If bidder is a Corporation)

_____
(Fax Number)

_____
(E-Mail)

4. Cooperate with the Owner and separate contractors to accommodate this requirement.

B. Work by Owner: The Owner will remove and retain possession of the following items prior to start of work under this Contract:
   1. Salvaged amenities and materials designated for removal by the demolition separate contract.

C. Owner's Products: The Contractor shall remove and the Owner will take possession of the following items upon the start of work under this Contract:
   1. Salvaged amenities and materials designated for removal by the demolition separate contract...

1.4 OWNER OCCUPANCY

A. The Owner intends to occupy the following portions of the project by the dates indicated:
   1. Within 148 working days of execution of construction agreement.

1.5 CONTRACTOR'S USE OF SITE AND PREMISES

A. [Contractor shall have complete and exclusive use of site and premises for execution of the Work.

B. Move any stored products under Contractor's control that interfere with the operations of the Owner.

C. Assume full responsibility for protection and safekeeping of products under this Contract stored on site.

D. Obtain and pay for use of any additional storage or work areas needed for operations.

E. Coordinate use of site and premises with the Owner:
   1. Employee parking: parking lot along Quince.
   2. Access to site: from Quince
   3. Storage and staging areas: In designated areas that do not impede the surface drainage of the site or operations of swimming pool.
   4. Transport materials and equipment to and from construction area along routes approved by Owner.

F. Conform to Building Rules and Regulations.

G. Confine operations to construction area unless otherwise approved by Owner.

BID SCHEDULE
CITY OF McALLEN
SOFTBALL FIELD FACILITIES - MUNICIPAL PARK

Base Bid	Unit	Cost
Softball Fields Facilities Municipal Park Improvements	LS	$
Site Irrigation	LS	$
	Total Base Bid	$

Alternate #1 - Maintenance Building	LS	$
Alternate #2 - Shade Structures	LS	$
Alternate #3 - Basketball Court	LS	$
Alternate #4 - Scoreboards	LS	$
Alternate #5 - Net Backstop	LS	$

Softball Field Facilities Municipal Park Improvements

Excludes: Alternates # 1- 4, Work Performed by Others/City and Site Irrigation

Work Performed by Others/City Include:

Dismantle and Removal of Basketball Pavilion
Court Striping on New Basketball Pavilion
Demolition of Basketball Court Flatwork
Dismantle and Relocation of Playground Structure
Demolition of Playground Perimeter Sidewalk

Includes: Installation of Items Furnished by City

Installation of Items Furnished by City Include:

Flag and Flag Poles

Park Improvements - Site Irrigation

Includes: Irrigation System of entire Park

Alternate #1 - Maintenance Building

Add:

Driveway
Dumpster Concrete Pad and Enclosure
Storage Unit Concrete Pad
Electrical Service Drop
Adjacent Fence and Gates

Deduct:

Irrigation from Driveway, Dumpster Pad and Storage Unit Pad

Alternate #2 - Shade Structures

Add:

Furnish and Installation of Shade Structures for Fields # 5 and #6

Alternate #3 - Basketball Court

Add:

Concrete Flatwork excluding Pavilion Relocation

Adjacent Sidewalk extension from main path

Deduct:

Bermuda Grass Hydromulch from Concrete Pad and Sidewalk

Irrigation from Concrete Pad and Sidewalk

Alternate #4 - Scoreboards

Add:

Furnish and Installation of Scoreboards for Fields #1, #2 and #3

Alternate #5 - Net Backstop

Add:

Furnish and Installation of Net Backstop, Masonry Wall and Trench Drain for all 6 Fields.

Deduct:

Chain Link Backstop for Fields #4, #5 and #6.

Notes:

1. Refer to Geotechnical Report by Terracon Project No. 88175150 for all preparation requirements.
2. All items are to be priced to be complete in place and fully functionally with all associated labor included.
3. All mobilization, expected fees and permits are to be priced under each lump sum item.
4. All items on plans and specifications shall be priced within this bid form.
5. All alternates are to be filled out in order to be considered.
6. If dewatering is required for installation of underground improvements. All operations and and maintenance needed for removal of groundwater to properly install new improvements shall be subsidiary to the improvement being installed, no separate pay item.

Number of Working Days to Complete Contract (not to exceed 148 working days)

LABORATORY SERVICES REPORT

Report Number: 88181117.0001
Service Date: 07/09/18
Report Date: 07/11/18 Revision 1 - Updated Topsoil Analysis

Terracon
1506 Mid Cities Dr
Pharr, TX 78577-2128
956-283-8254 Reg No: F-3272

Client

City of McAllen TX
Engineering Department
Attn: Mr. Eduardo Mendoza
311 N 15th St
McAllen, TX 78501-4705

Project

City of McAllen Softball Field Facilities Municipal Park
Bicentennial Boulevard and Quince Avenue
McAllen, TX

Project Number: 88181117

Mr. Juan M. Borjon representing Terracon Consultants, Inc. visited this site to retrieve twelve (12) topsoil samples. An updated report of the topsoil analysis is attached.

Services:

Terracon Rep.: Juan M. Borjon, P.E.
Reported To: Eduardo Mendoza with City of McAllen
Contractor:
Report Distribution:
(1) City of McAllen TX, Mr. Eduardo Mendoza
(1) City of McAllen TX, Mr. Zef Mendoza

STATE OF TEXAS
JUAN M. BORJON
121570
LICENSED
PROFESSIONAL ENGINEER

Reviewed By: Juan M. Borjon
Juan M. Borjon, P.E.
Senior Staff Engineer
7/11/18

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

SOIL ANALYSIS REPORT

CLIENT:	PACE ANALYTICAL SERVICES INC 400 WEST BETHANY SUITE 190 ALLEN, TX 75013
35420	

Servi-Tech Laboratories
www.servitechlabs.com

6921 S. Bell
Amarillo, TX 79109
800.557.7509
806.677.0093
Fax 806.677.0329

LAB NO:	33295 - 33304
INVOICE NO:	150360
DATE RECEIVED:	07/04/2018
DATE REPORTED:	07/10/2018

SOIL ANALYSIS RESULTS FOR: MCALLEN SOFTBALL FIELD M PARK **FIELD IDENTIFICATION:** 88181117

METHOD USED:			1:1 Water-Soil		1:1 Water-Soil	XSL(i)	LOI(r)	Cd Reduction		c-Mehlich 3	Mehlich 3 ICP			Ammonium Acetate		Mehlich 3 ICP	DTPA				DTPA Sorbitol
Lab Number	Sample ID	Sample Depth	Soil pH	Buffer pH	Sol. Salts mmho/cm	Excess Lime	% Organic Matter	Nitrate-Nitrogen ppm	lb. N/A	Phosphorus ppm P	Potassium ppm K	Sulfur ppm	lb. S/A	Calcium ppm Ca	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Iron ppm Fe	Manganese ppm Mn	Copper ppm Cu	Boron ppm B
33295	1	0 - 8	7.6		0.37	Hi	3.2	4	10	54	512	32	77	3190	463	199	12.2	11	4	1.0	2.80
33296	2	0 - 8	8.0		0.19	Hi	2.9	5	12	67	394	15	36	2673	333	24	6.6	11	2	0.7	1.55
33297	3	0 - 8	7.7		0.27	Lo	3.3	7	17	116	473	19	46	2282	378	125	13.4	16	3	0.9	1.88
33298	4	0 - 8	8.0		0.22	Hi	3.0	4	10	51	561	17	41	3459	371	57	8.1	7	2	0.7	2.14
33299	5	0 - 8	8.0		0.24	Hi	1.4	8	19	28	492	21	50	3967	309	40	2.6	5	3	0.6	1.63
33300	6	0 - 8	7.4		0.19	No	2.6	6	14	66	841	13	31	2345	403	21	3.6	6	4	0.8	1.56
33301	7	0 - 8	7.9		0.20	Hi	2.9	3	7	41	644	11	26	3352	294	23	6.8	5	3	0.8	1.94
33302	8	0 - 8	8.1		0.21	Hi	1.2	3	7	17	449	12	29	4250	324	62	2.9	4	3	0.5	2.18
33303	9	0 - 8	8.1		0.16	Hi	1.2	2	5	21	453	10	24	3493	283	15	1.4	3	2	0.5	1.35
33304	10	0 - 8	7.9		0.18	Lo	1.5	4	10	32	415	9	22	2344	254	29	2.9	3	3	0.6	1.20

METHOD USED:				Hydrometer		
Lab Number	Sample ID	Sample Depth	Soil Textural Classification	Sand %	Silt %	Clay %
33295	1	0 - 8	Sandy Clay Loam	59.0	18.6	22.4
33296	2	0 - 8	Sandy Loam	76.8	8.5	14.7
33297	3	0 - 8	Sandy Loam	72.8	9.9	17.3
33298	4	0 - 8	Sandy Loam	65.5	14.8	19.7
33299	5	0 - 8	Sandy Clay Loam	63.9	12.5	23.6
33300	6	0 - 8	Sandy Clay Loam	60.4	18.6	21.0
33301	7	0 - 8	Sandy Loam	62.8	17.4	19.8
33302	8	0 - 8	Sandy Clay Loam	55.1	18.7	26.2
33303	9	0 - 8	Sandy Loam	68.8	16.2	15.0
33304	10	0 - 8	Sandy Loam	70.0	13.8	16.2

Analyses are representative of the samples submitted

Samples are retained 30 days after report of analysis

Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Kelly Brauer
Data Review Coordinator

SOIL ANALYSIS REPORT

CLIENT: 35420	PACE ANALYTICAL SERVICES INC 400 WEST BETHANY SUITE 190 ALLEN, TX 75013

Servi-Tech Laboratories
www.servitechlabs.com

6921 S. Bell
Amarillo, TX 79109
800.557.7509
806.677.0093
Fax 806.677.0329

LAB NO:	33295 - 33304
INVOICE NO:	150360
DATE RECEIVED:	07/04/2018
DATE REPORTED:	07/10/2018

SOIL ANALYSIS RESULTS FOR: MCALLEN SOFTBALL FIELD M PARK **FIELD IDENTIFICATION:** 88181117

FERTILIZER RECOMMENDATIONS: POUNDS ACTUAL NUTRIENT PER ACRE

Lab Number	Sample ID	Crop To Be Grown	Yield Goal	Lime, ECC Tons/A to raise pH to:			N	P_2O_5	K_2O	Zn	S	Mn	Cu	MgO	B	Ca	Cl	Cation Exchange Capacity					
				6.0	6.5	7.0												CEC	%H	%K	%Ca	%Mg	%Na
33295	1																	22	0	6	73	18	4
33296	2																	17	0	6	77	16	1
33297	3																	16	0	7	70	19	3
33298	4																	22	0	7	78	14	1
33299	5																	24	0	5	83	11	1
33300	6																	17	0	12	68	19	1
33301	7																	21	0	8	80	12	0
33302	8																	25	0	5	84	11	1
33303	9																	21	0	6	83	11	0
33304	10																	15	0	7	78	14	1

SPECIAL COMMENTS AND SUGGESTIONS:

Lab Number(s): 33295, 33296, 33297, 33298, 33299, 33300, 33301, 33302, 33303, 33304
Servi-Tech Laboratory fertilizer recommendations were not requested.

Analyses are representative of the samples submitted | Samples are retained 30 days after report of analysis | Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Kelly Brauer
Data Review Coordinator

SOIL ANALYSIS REPORT

CLIENT:	PACE ANALYTICAL SERVICES INC 400 WEST BETHANY SUITE 190 ALLEN, TX 75013
35420	

Servi-Tech Laboratories
www.servitechlabs.com

6921 S. Bell
Amarillo, TX 79109
800.557.7509
806.677.0093
Fax 806.677.0329

LAB NO:	33305 - 33306
INVOICE NO:	150360
DATE RECEIVED:	07/04/2018
DATE REPORTED:	07/10/2018

SOIL ANALYSIS RESULTS FOR: MCALLEN SOFTBALL FIELD M PARK **FIELD IDENTIFICATION:** 88181117

METHOD USED:			1:1 Water-Soil		1:1 Water-Soil	XSL(i)	LOI(r)	Cd Reduction		c-Mehlich 3	Mehlich 3 ICP			Ammonium Acetate		Mehlich 3 ICP	DTPA				DTPA Sorbitol
Lab Number	Sample ID	Sample Depth	Soil pH	Buffer pH	Sol. Salts mmho/cm	Excess Lime	% Organic Matter	Nitrate-Nitrogen ppm	lb. N/A	Phosphorus ppm P	Potassium ppm K	Sulfur ppm	lb. S/A	Calcium ppm Ca	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Iron ppm Fe	Manganese ppm Mn	Copper ppm Cu	Boron ppm B
33305	11	0 - 8	8.1		0.20	Hi	1.7	1	2	18	400	12	29	3477	335	84	14.8	4	2	0.7	1.77
33306	12	0 - 8	7.5		0.21	No	2.4	4	10	36	677	7	17	2096	406	74	3.5	10	4	0.9	1.70

METHOD USED:				Hydrometer		
Lab Number	Sample ID	Sample Depth	Soil Textural Classification	Sand %	Silt %	Clay %
33305	11	0 - 8	Sandy Loam	65.4	17.3	17.3
33306	12	0 - 8	Sandy Clay Loam	54.8	18.3	26.9

FERTILIZER RECOMMENDATIONS: POUNDS ACTUAL NUTRIENT PER ACRE

Lab Number	Sample ID	Crop To Be Grown	Yield Goal	Lime, ECC Tons/A to raise pH to: 6.0	6.5	7.0	N	P_2O_5	K_2O	Zn	S	Mn	Cu	MgO	B	Ca	Cl
33305	11																
33306	12																

Cation Exchange Capacity

CEC	%H	%K	%Ca	%Mg	%Na
22	0	5	81	13	2
16	0	11	66	21	2

SPECIAL COMMENTS AND SUGGESTIONS:

Lab Number(s): 33305, 33306
Servi-Tech Laboratory fertilizer recommendations were not requested.

Analyses are representative of the samples submitted | Samples are retained 30 days after report of analysis | Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Kelly Brauer
Data Review Coordinator

07/10/2018 3:41 pm

Lab SampleRange: 33195-33316 **Amarillo: Soil Data Quality Control Report** FIA

Soil: Nitrate-Nitrogen (FIA) **Jul 5 2018 7:20AM 547493 Batch: A Instrument: AMA-LACHAT QuikChem 8500**

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range	Outliers LT(%) 1	2	3
CCV	4.9	4.8	4.9	4.8									5,405	4.8		0.5		10.3		4.5 - 5.5			
MB	0.5	0.0											2,499	0.2		0.6				-0.5 - 0.5			
SHIP	**4.5**	**4.4**											3,022	2.8	2.7	1.7	0.7	60.2	24.2	1.4 - 4.1	3	1	0
TAN2	**8.9**	6.6	7.2										523	7.4	7.4	0.6	0.5	7.4	6.2	6.5 - 8.3	28	5	1
CLAW	18.6	18.9	19.2										2,809	19.8	19.7	2.1	1.5	10.6	7.7	16.7 - 22.7	19	3	1
KEY	2.9	3.3											419	2.9	2.8	0.4	0.3	14.1	12.1	2.2 - 3.5	28	4	0

LAB #	33235	33313
ORIGINAL	8.7	0.4
DUPLICATE	8.6	0.5
% RD	1.4	32.9

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD		7/10 70.0%	(>=33.3%)	
2 SD		9/10 90.0%	(>=66.7%)	(<25%)
3 SD		10/10 100.0%	(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 17/18 94.4%

Agronomic Relevance 1

Order of Analysis: TAN2-1, CLAW-1, KEY-1, CCV-1, MB-1, 33195-33222, SHIP-1, 33223-33254, TAN2-2, CCV-2, 33255-33285, CLAW-2, 33286-33316, >33235, KEY-2, CCV-3, >33313, MB-2, SHIP-2, TAN2-3, CLAW-3, CCV-4

Missing Samples:

Approved	Date / Tme	Name	Type	Comment
Y	07/05/2018 3:54 pm	StevenH	Signer	
Y	07/05/2018 12:49 pm	AmyW	Analyst	

[X] ACCEPTABLE: May release all data upon final review of individual results.
[ ] CAUTION: May release some or all data upon intense scrutiny of individual results.
[ ] REJECTION: Hold all data and re-analyse part or all data.

Printed: 07/09/2018 10:22 pm

Lab SampleRange: 33195-33316 **Amarillo: Soil Data Quality Control Report** FIA

Soil: Nitrate-Nitrogen (FIA) **Jul 5 2018 7:20AM 547493 Batch: A Instrument: AMA-LACHAT QuikChem 8500**

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range	Outliers LT(%) 1	2	3
CCV	4.9	4.8	4.9	4.8									5,405	4.8		0.5		10.3		4.5 - 5.5			
MB	0.5	0.0											2,499	0.2		0.6				-0.5 - 0.5			
SHIP	**4.5**	**4.4**											3,022	2.8	2.7	1.7	0.7	60.2	24.2	1.4 - 4.1	3	1	0
TAN2	**8.9**	6.6	7.2										523	7.4	7.4	0.6	0.5	7.4	6.2	6.5 - 8.3	28	5	1
CLAW	18.6	18.9	19.2										2,809	19.8	19.7	2.1	1.5	10.6	7.7	16.7 - 22.7	19	3	1
KEY	2.9	3.3											419	2.9	2.8	0.4	0.3	14.1	12.1	2.2 - 3.5	28	4	0

LAB #	33235	33313
ORIGINAL	8.7	0.4
DUPLICATE	8.6	0.5
% RD	1.4	32.9

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD		7/10 70.0%	(>=33.3%)	
2 SD		9/10 90.0%	(>=66.7%)	(<25%)
3 SD		10/10 100.0%	(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 17/18 94.4%

Agronomic Relevance 1

Order of Analysis: TAN2-1, CLAW-1, KEY-1, CCV-1, MB-1, 33195-33222, SHIP-1, 33223-33254, TAN2-2, CCV-2, 33255-33285, CLAW-2, 33286-33316, >33235, KEY-2, CCV-3, >33313, MB-2, SHIP-2, TAN2-3, CLAW-3, CCV-4

Missing Samples:

Approved	Date / Tme	Name	Type	Comment
Y	07/05/2018 3:54 pm	StevenH	Signer	
Y	07/05/2018 12:49 pm	AmyW	Analyst	

[X] ACCEPTABLE: May release all data upon final review of individual results.
[ ] CAUTION: May release some or all data upon intense scrutiny of individual results.
[ ] REJECTION: Hold all data and re-analyse part or all data.

Printed: 07/09/2018 10:22 pm

Lab SampleRange: 33202-33316

Amarillo: Soil Data Quality Control Report

Soil: Ammonium Acetate Exchangeable Calcium (ICP)

Jul 5 2018 7:27AM 547507 Batch: A Instrument: Agilent ICP 5100

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range	Outliers LT(%) 1	2	3
CCV	242	243	241										4,616	256		11		4.3		225 - 275			
MB	-2	**-11**											2,281	22		58				-5 - 50			
FRB	20	42											0							-			
TAN2	2,316	2,205	2,211										461	2,367	2,365	129	115	5.4	4.9	2,135 - 2,595	31	3	1
CLAW	4,871	4,806	4,800										2,040	4,962	4,967	220	173	4.4	3.5	4,621 - 5,312	23	3	1
KEY	5,500	5,550	5,595										392	5,736	5,723	183	160	3.2	2.8	5,403 - 6,043	29	3	1

LAB #	33231	33316
ORIGINAL	2162	439
DUPLICATE	2288	445
% RD	5.6	1.5

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD		5/9 55.6%	(>=33.3%)	
2 SD		9/9 100.0%	(>=66.7%)	(<25%)
3 SD		9/9 100.0%	(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 17/18 94.4%

Agronomic Relevance 25

Order of Analysis:

Missing Samples: NONE

Approved	Date / Tme	Name	Type	Comment
Y	07/05/2018 3:52 pm	StevenH	Signer	
Y	07/05/2018 11:44 am	CaseyJ	Analyst	

[X] ACCEPTABLE: May release all data upon final review of individual results.
[ ] CAUTION: May release some or all data upon intense scrutiny of individual results.
[ ] REJECTION: Hold all data and re-analyse part or all data.

Printed: 07/05/2018 3:52 pm

Lab SampleRange: 33202-33316

Amarillo: Soil Data Quality Control Report

Soil: Ammonium Acetate Exchangeable Magnesium (ICP)

Jul 5 2018 7:27AM 547507 Batch: A Instrument: Agilent ICP 5100

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range	Outliers LT(%) 1	2	3
CCV	48.2	48.0	48.1										4,616	49.6		1.7		3.5		45.0 - 55.0			
MB	-1.2	**-2.6**											2,290	4.7		11.5				-2.0 - 15.0			
FRB	4.0	8.4											0							-			
TAN2	289.0	279.1	281.0										461	303.1	302.5	16.4	14.3	5.4	4.7	273.9 - 331.1	33	3	1
CLAW	365.4	356.2	357.9										2,043	373.2	372.5	17.7	15.3	4.7	4.1	341.9 - 403.2	29	3	0
KEY	**230.7**	235.6	237.4										392	246.9	246.2	8.5	7.5	3.4	3.0	231.2 - 261.2	33	5	0

LAB #	33231	33316
ORIGINAL	159.1	84.4
DUPLICATE	168.2	85.8
% RD	5.5	1.6

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD		3/9 33.3%	(>=33.3%)	
2 SD		8/9 88.9%	(>=66.7%)	(<25%)
3 SD		9/9 100.0%	(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 16/18 88.9%

Agronomic Relevance 10

Order of Analysis:

Missing Samples: NONE

Approved	Date / Tme	Name	Type	Comment
Y	07/05/2018 3:52 pm	StevenH	Signer	
Y	07/05/2018 11:44 am	CaseyJ	Analyst	

[X] ACCEPTABLE: May release all data upon final review of individual results.
[ ] CAUTION: May release some or all data upon intense scrutiny of individual results.
[ ] REJECTION: Hold all data and re-analyse part or all data.

Printed: 07/05/2018 3:52 pm

Lab SampleRange: 33199-33316

Soil: DTPA Extractable Iron (ICP)

Amarillo: Soil Data Quality Control Report

Jul 5 2018 7:27AM 547508 Batch: A Instrument: Agilent ICP 5100

ICP

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range	Outliers LT(%) 1	2	3
CCV	19.6	19.7											4,125	19.7		0.9		4.4		18.0 - 22.0			
MB	0.1	0.0											2,286	0.3		0.4				-0.5 - 0.5			
TAN2	77.1	77.2	**86.3**										469	73.4	72.8	7.0	5.6	9.5	7.7	61.6 - 84.0	26	4	2
CLAW	7.0	6.5											2,029	7.3	7.2	2.0	0.8	27.3	11.0	5.6 - 8.8	3	1	1
KEY	3.9	3.9											385	4.2	4.1	0.5	0.4	12.4	9.3	3.3 - 4.9	22	5	1

LAB #	33304
ORIGINAL	3.2
DUPLICATE	3.5
% RD	10.8

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD		6/7 85.7%	(>=33.3%)	
2 SD		7/7 100.0%	(>=66.7%)	(<25%)
3 SD		7/7 100.0%	(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 11/12 91.7%

Order of Analysis: TAN2-1, CLAW-1, KEY-1, CCV-1, MB-1, 33199, 33201-33206, 33265, 33267, 33269, 33271, 33273, 33275, 33277, 33279, 33281, 33283, 33285, 33287, 33289, 33291, 33293, 33295-33300, TAN2-2, 33301-33310, 33314-33316, >33304, MB-2, CLAW-2, KEY-2, TAN2-3, CCV-2

Missing Samples:

Approved	Date / Tme	Name	Type	Comment
Y	07/05/2018 3:53 pm	StevenH	Signer	
Y	07/05/2018 1:19 pm	AshleighR	Analyst	

[ ] ACCEPTABLE: May release all data upon final review of individual results.
[X] CAUTION: May release some or all data upon intense scrutiny of individual results.
[ ] REJECTION: Hold all data and re-analyse part or all data.

Printed: 07/09/2018 10:22 pm

Lab SampleRange: 33199-33316

Soil: DTPA Extractable Manganese (ICP)

Amarillo: Soil Data Quality Control Report

Jul 5 2018 7:27AM 547508 Batch: A Instrument: Agilent ICP 5100

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range	Outliers LT(%) 1	2	3
CCV	9.9	10.1											4,125	10.0		0.5		4.9		9.0 - 11.0			
MB	0.1	0.0											2,286	0.1		0.2				-0.5 - 0.5			
TAN2	95.6	93.9	88.3										469	97.7	97.3	7.1	6.2	7.2	6.3	85.0 - 109.7	32	4	0
CLAW	14.5	13.4											2,029	15.8	15.7	1.7	1.4	10.9	8.9	12.9 - 18.5	26	3	1
KEY	6.0	6.2											387	5.6	5.5	0.7	0.5	11.7	9.2	4.5 - 6.5	23	4	2

LAB #	33304
ORIGINAL	2.6
DUPLICATE	2.7
% RD	0.3

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD		4/7 57.1%	(>=33.3%)	
2 SD		7/7 100.0%	(>=66.7%)	(<25%)
3 SD		7/7 100.0%	(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 12/12 100.0%

Order of Analysis:

Missing Samples: NONE

Approved	Date / Tme		Name	Type	Comment
Y	07/05/2018	3:53 pm	StevenH	Signer	
Y	07/05/2018	1:19 pm	AshleighR	Analyst	

[X] ACCEPTABLE: May release all data upon final review of individual results.
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[ ] REJECTION: Hold all data and re-analyse part or all data.

Printed: 07/05/2018 3:53 pm

Lab SampleRange: 33199-33316

Soil: DTPA Extractable Copper (ICP)

Amarillo: Soil Data Quality Control Report

Jul 5 2018 7:27AM 547508 Batch: A Instrument: Agilent ICP 5100

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range	Outliers LT(%) 1	2	3
CCV	0.50	0.50											4,125	0.49		0.04		8.8		0.45 - 0.55			
MB	0.02	0.01											2,286	0.01		0.01		86.7		-0.10 - 0.10			
TAN2	0.79	0.76	0.73										469	0.76	0.76	0.08	0.05	10.1	6.8	0.66 - 0.86	17	1	0
CLAW	1.36	1.27											2,029	1.26	1.26	0.09	0.07	7.1	5.7	1.12 - 1.41	26	3	1
KEY	0.64	0.63											387	0.61	0.61	0.04	0.03	6.5	5.3	0.55 - 0.68	26	5	1

LAB #	33304
ORIGINAL	0.56
DUPLICATE	0.51
% RD	9.4

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD		6/7 85.7%	(>=33.3%)	
2 SD		7/7 100.0%	(>=66.7%)	(<25%)
3 SD		7/7 100.0%	(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 12/12 100.0%

Order of Analysis:

Missing Samples: NONE

Approved	Date / Tme	Name	Type	Comment
Y	07/05/2018 3:53 pm	StevenH	Signer	
Y	07/05/2018 1:19 pm	AshleighR	Analyst	

[X] ACCEPTABLE: May release all data upon final review of individual results.
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Printed: 07/05/2018 3:53 pm

Lab SampleRange: 33199-33316

Soil: DTPA Extractable Zinc (ICP)

Amarillo: Soil Data Quality Control Report

Jul 5 2018 7:27AM 547508 Batch: A Instrument: Agilent ICP 5100

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range	Outliers LT(%) 1	2	3
CCV	0.98	0.99											4,164	0.98		0.09		8.8		0.90 - 1.10			
MB	0.03	0.05											2,286	0.04		0.29				-0.10 - 0.10			
TAN2	5.73	5.57	5.32										469	5.58	5.54	0.51	0.31	9.1	5.6	4.93 - 6.16	12	2	1
CLAW	1.47	1.37											2,029	1.44	1.44	0.22	0.09	15.1	6.3	1.26 - 1.62	3	1	0
KEY	0.49	0.48											387	0.50	0.46	0.48	0.05	96.7	10.0	0.37 - 0.56	1	1	1

LAB #	33304
ORIGINAL	2.86
DUPLICATE	2.63
% RD	8.5

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD		7/7 100.0%	(>=33.3%)	
2 SD		7/7 100.0%	(>=66.7%)	(<25%)
3 SD		7/7 100.0%	(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 12/12 100.0%

Order of Analysis:

Missing Samples: NONE

Approved	Date / Tme		Name	Type	Comment
Y	07/05/2018	3:53 pm	StevenH	Signer	
Y	07/05/2018	1:19 pm	AshleighR	Analyst	

[X] ACCEPTABLE: May release all data upon final review of individual results.
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Printed: 07/05/2018 3:53 pm

Lab SampleRange: 33199-33316

Soil: DTPA-Sorbitol Boron

Amarillo: Soil Data Quality Control Report

Jul 5 2018 7:27AM 547508 Batch: A Instrument: Agilent ICP 5100

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range	Outliers LT(%) 1	2	3
CCV	0.49	0.50											544	0.50		0.02		4.9		0.45 - 0.55			
MB	0.02	0.02											372	0.01		0.02				-0.10 - 0.10			
TAN2	**0.29**	0.25	0.26										469	0.23	0.23	0.06	0.02	24.8	9.3	0.18 - 0.27	3	0	0
CLAW	1.31	1.22											476	1.32	1.32	0.07	0.06	5.1	4.2	1.21 - 1.43	30	5	1
KEY	0.87	0.84											387	0.86	0.86	0.05	0.04	5.5	4.2	0.79 - 0.94	22	5	2

LAB #	33304
ORIGINAL	1.20
DUPLICATE	1.11
% RD	7.8

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD		3/7 42.9%	(>=33.3%)	
2 SD		6/7 85.7%	(>=66.7%)	(<25%)
3 SD		7/7 100.0%	(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 11/12 91.7%

Order of Analysis:

Missing Samples: NONE

Approved	Date / Tme		Name	Type	Comment
Y	07/05/2018	3:53 pm	StevenH	Signer	
Y	07/05/2018	1:19 pm	AshleighR	Analyst	

[X] ACCEPTABLE: May release all data upon final review of individual results.
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Printed: 07/05/2018 3:53 pm

Lab SampleRange: **33199-33316**

Amarillo: Soil Data Quality Control Report

ICP

Soil: **Mehlich 3 Extractable Phosphorus (ICP)**

Jul 5 2018 7:27AM 547509 Batch: A Instrument: Agilent ICP 5100

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range	Outliers LT(%) 1	2	3
CCV	20.7	20.7	20.6										3,250	19.7		0.9		4.3		18.0 - 22.0			
MB	0.0	0.2											2,024	0.7		2.8				-0.2 - 0.2			
FRB	1.3	0.7											0							-			
TAN2	80.4	84.4	78.7										2,046	77.7	77.8	4.2	3.3	5.4	4.3	71.2 - 84.4	23	2	1
CLAW	58.2	59.2	58.7										806	58.5	58.5	2.2	2.1	3.8	3.5	54.4 - 62.6	33	3	0
KEY	38.1	39.3	37.4										539	38.0	38.0	1.5	1.3	3.9	3.4	35.4 - 40.6	30	4	0

LAB #	33273	33313
ORIGINAL	112.3	8.7
DUPLICATE	113.4	9.0
% RD	1.0	3.7

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD		8/9 88.9%	(>=33.3%)	
2 SD		9/9 100.0%	(>=66.7%)	(<25%)
3 SD		9/9 100.0%	(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 18/18 100.0%

Agronomic Relevance 2

Order of Analysis: FRB-1, FRB-2, KEY-1, TAN2-1, CLAW-1, CCV-1, MB-1, 33199-33224, KEY-2, 33225-33256, TAN2-2, CCV-2, 33257-33265, 33267, 33269, 33271, 33273, 33275, 33277, 33279, 33281, 33283, 33285, 33287, 33289, 33291, 33293, 33295-33302, CLAW-2, 33303-33316, >33273, >33313, MB-2, KEY-3, TAN2-3, CLAW-3, CCV-3

Missing Samples:

Approved	Date / Tme	Name	Type	Comment
Y	07/05/2018 3:53 pm	StevenH	Signer	
Y	07/05/2018 12:52 pm	CaseyJ	Analyst	

[X] ACCEPTABLE: May release all data upon final review of individual results.
[ ] CAUTION: May release some or all data upon intense scrutiny of individual results.
[ ] REJECTION: Hold all data and re-analyse part or all data.

Printed: 07/09/2018 10:22 pm

Lab SampleRange: 33199-33316

Soil: Mehlich 3 Extractable Potassium (ICP)

Amarillo: Soil Data Quality Control Report

Jul 5 2018 7:27AM 547509 Batch: A Instrument: Agilent ICP 5100

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range	Outliers LT(%) 1	2	3
CCV	51	51	51										3,240	50		2		4.2		45 - 55			
MB	6	**11**											2,014	5		18				-1 - 10			
FRB	3	2											0							-			
TAN2	378	406	376										2,042	390	387	96	27	24.5	7.0	333 - 442	1	0	0
CLAW	423	417	406										687	421	421	21	17	5.0	4.1	386 - 455	25	5	0
KEY	352	353	371										539	346	344	21	16	6.1	4.5	313 - 375	22	1	1

LAB #	33273	33313
ORIGINAL	376	224
DUPLICATE	419	245
% RD	10.6	8.8

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD		8/9 88.9%	(>=33.3%)	
2 SD		9/9 100.0%	(>=66.7%)	(<25%)
3 SD		9/9 100.0%	(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 16/18 88.9%

Agronomic Relevance 10

Order of Analysis:

Missing Samples: NONE

Approved	Date / Tme	Name	Type	Comment
Y	07/05/2018 3:53 pm	StevenH	Signer	
Y	07/05/2018 12:52 pm	CaseyJ	Analyst	

[ ] ACCEPTABLE: May release all data upon final review of individual results.
[X] CAUTION: May release some or all data upon intense scrutiny of individual results.
[ ] REJECTION: Hold all data and re-analyse part or all data.

Printed: 07/05/2018 3:53 pm

Lab SampleRange: 33199-33316

Soil: Mehlich 3 Extractable Sodium (ICP)

Amarillo: Soil Data Quality Control Report

Jul 5 2018 7:27AM 547509 Batch: A Instrument: Agilent ICP 5100

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range	Outliers LT(%) 1	2	3
CCV	20.5	20.4	20.4										3,228	20.0		0.9		4.5		18.0 - 22.0			
MB	**-4.3**	-0.8											2,004	1.0		3.7				-1.0 - 10.0			
FRB	5.5	5.0											0							-			
TAN2	11.1	11.1	9.7										1,970	12.2	11.8	2.7	2.0	22.6	16.9	7.8 - 15.7	24	7	2
CLAW	13.5	12.6	11.5										809	13.4	13.4	1.6	1.1	11.8	8.4	11.1 - 15.6	19	3	1
KEY	6.9	7.0	5.3										539	6.5	6.3	1.6	1.0	24.8	15.7	4.3 - 8.2	14	4	2

LAB #	33273	33313
ORIGINAL	31.2	8.5
DUPLICATE	30.9	8.2
% RD	1.2	3.1

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD		7/9 77.8%	(>=33.3%)	
2 SD		9/9 100.0%	(>=66.7%)	(<25%)
3 SD		9/9 100.0%	(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 17/18 94.4%

Agronomic Relevance 5

Order of Analysis:

Missing Samples: NONE

Approved	Date / Tme	Name	Type	Comment
Y	07/05/2018 3:54 pm	StevenH	Signer	
Y	07/05/2018 12:52 pm	CaseyJ	Analyst	

[X] ACCEPTABLE: May release all data upon final review of individual results.
[ ] CAUTION: May release some or all data upon intense scrutiny of individual results.
[ ] REJECTION: Hold all data and re-analyse part or all data.

Printed: 07/05/2018 3:54 pm

Lab SampleRange: 33199-33316

Soil: Mehlich 3 Extractable Sulfur (ICP)

Amarillo: Soil Data Quality Control Report

Jul 5 2018 7:27AM 547509 Batch: A Instrument: Agilent ICP 5100

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range	Outliers LT(%) 1	2	3
CCV	2.1	2.1	2.1										3,238	2.0		0.1		6.7		1.8 - 2.2			
MB	**-3.5**	-0.6											2,012	0.3		1.9				-1.0 - 1.0			
FRB	-1.2	0.3											0							-			
TAN2	9.7	8.7	7.7										2,019	9.1	9.0	1.3	1.1	14.6	11.9	6.9 - 11.1	25	3	1
CLAW	11.0	10.4	9.4										828	12.2	12.1	2.1	1.4	17.3	11.5	9.3 - 14.8	13	2	1
KEY	8.7	11.3	8.5										535	10.3	10.3	1.8	1.3	17.7	13.1	7.6 - 13.0	20	2	1

LAB #	33273	33313
ORIGINAL	8.1	7.8
DUPLICATE	9.7	8.3
% RD	18.1	6.9

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD		4/9 44.4%	(>=33.3%)	
2 SD		9/9 100.0%	(>=66.7%)	(<25%)
3 SD		9/9 100.0%	(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 17/18 94.4%

Agronomic Relevance 5

Order of Analysis:

Missing Samples: NONE

Approved	Date / Tme	Name	Type	Comment
Y	07/05/2018 3:54 pm	StevenH	Signer	
Y	07/05/2018 12:52 pm	CaseyJ	Analyst	

[X] ACCEPTABLE: May release all data upon final review of individual results.
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[ ] REJECTION: Hold all data and re-analyse part or all data.

Printed: 07/05/2018 3:54 pm

Lab SampleRange: **33295-33306**

Soil: **Percent Sand (Hydrometer)**

Amarillo: Soil Data Quality Control Report

Jul 5 2018 7:42AM 547521 Batch: A Instrument: AMA-BAL1 AE200-012

Hydrometer

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range	Outliers LT(%) 1	2	3
MB	100.00												197	100.00		0.00		0.0		99.00 - 100.00			
PLP	**54.03**												60	47.84	46.96	5.00	2.97	10.4	6.3	41.02 - 52.90	12	5	2
LAB #	33298																						
ORIGINAL	65.53																						
DUPLICATE	65.52																						
% RD	0.0																						

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD		0/1 0.0%	(>=33.3%)	
2 SD		1/1 100.0%	(>=66.7%)	(<25%)
3 SD		1/1 100.0%	(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 3/3 100.0%

Order of Analysis: MB-1, PLP-1, 33295-33296, 33298-33306, >33298

Missing Samples:

Approved	Date / Tme		Name	Type	Comment
Y	07/06/2018	4:53 pm	ARRoyle	Signer	
Y	07/06/2018	4:10 pm	JacobD	Analyst	

[ ] ACCEPTABLE: May release all data upon final review of individual results.
[ ] CAUTION: May release some or all data upon intense scrutiny of individual results.
[X] REJECTION: Hold all data and re-analyse part or all data.

Printed: 07/09/2018 10:22 pm

Lab SampleRange: 33295-33306

Soil: Percent Clay (Hydrometer)

Amarillo: Soil Data Quality Control Report

Jul 5 2018 7:42AM 547521 Batch: A Instrument: AMA-BAL1 AE200-012

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range	Outliers LT(%) 1	2	3
MB	0.00												197	0.00		0.00				-2.00 - 2.00			
PLP	16.15												60	14.59	14.63	1.70	1.25	11.6	8.5	12.14 - 17.12	15	3	3

LAB #	33298
ORIGINAL	19.70
DUPLICATE	19.70
% RD	0.0

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD		0/1 0.0%	(>=33.3%)	
2 SD		1/1 100.0%	(>=66.7%)	(<25%)
3 SD		1/1 100.0%	(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 3/3 100.0%

Order of Analysis:

Missing Samples: NONE

Approved	Date / Tme	Name	Type	Comment
Y	07/06/2018 4:53 pm	ARRoyle	Signer	
Y	07/06/2018 4:10 pm	JacobD	Analyst	

[ ] ACCEPTABLE: May release all data upon final review of individual results.
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Printed: 07/06/2018 4:53 pm

Lab SampleRange: **33202-33310**

Soil: **pH Water-Soil (1:1)**

Amarillo: Soil Data Quality Control Report

Jul 5 2018 8:23AM 547544 Batch: A Instrument: Amarillo Auto pH

pH Electrode

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range	Outliers LT(%) 1	2	3
CCV	4.10	4.09	4.09	4.16	4.10	4.10							6,124	4.12		0.06		1.4		4.00 - 4.40			
HAR1	5.21	5.24	5.18	5.20	5.18	5.17							3,021	5.17	5.18	0.09	0.07	1.7	1.4	5.03 - 5.33	28	4	1

LAB #	33204	33269	33285	33295	33304	33307
ORIGINAL	8.03	8.20	7.97	7.65	7.94	8.09
DUPLICATE	8.14	8.14	7.29	7.73	7.77	7.89
% RD	1.3	0.7	8.9	1.1	2.2	2.4

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD		6/6 100.0%	(>=33.3%)	
2 SD		6/6 100.0%	(>=66.7%)	(<25%)
3 SD		6/6 100.0%	(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 17/18 94.4%

Agronomic Relevance 0.1

Order of Analysis: 33202-33206, 33265, 33267, >33204, CCV-1, HAR1-1, 33269, 33271, 33273, 33275, 33277, 33279, 33281, >33269, CCV-2, HAR1-2, 33283, 33285, 33287, 33289, 33291, 33293, 33295, >33285, CCV-3, HAR1-3, 33296-33302, >33295, CCV-4, HAR1-4, 33303-33309, >33304, CCV-5, HAR1-5, 33310, >33307, CCV-6, HAR1-6

Missing Samples:

Approved	Date / Tme	Name	Type	Comment
Y	07/05/2018 3:52 pm	StevenH	Signer	
Y	07/05/2018 12:21 pm	AuroraD	Analyst	

[ ] ACCEPTABLE: May release all data upon final review of individual results.
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Printed: 07/09/2018 10:22 pm

Lab SampleRange: **33202-33310**

Amarillo: Soil Data Quality Control Report

Soil: **Soluble Salts Water-Soil EC (1:1) mmho/cm**

Jul 5 2018 8:23AM 547544 Batch: A Instrument: AMA-EC JenWay

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range		Outliers LT(%) 1	2	3
CCV	1.427	1.412	1.426	1.410	1.405	1.410							0							-				
HAR1	0.346	0.334	0.343	0.328	0.342	0.341							3,026	0.339	0.336	0.025	0.021	7.5	6.1	0.295 -	0.378	29	5	1
LAB #	33204	33269	33285	33295	33304	33307																		
ORIGINAL	0.464	0.122	0.383	0.370	0.176	0.224																		
DUPLICATE	0.470	0.112	0.407	0.386	0.189	0.232																		
% RD	1.3	8.5	6.1	4.2	7.3	3.5																		

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD		6/6 100.0%	(>=33.3%)	
2 SD		6/6 100.0%	(>=66.7%)	(<25%)
3 SD		6/6 100.0%	(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 18/18 100.0%

Agronomic Relevance 0.05

Order of Analysis:

Missing Samples: NONE

Approved	Date / Tme	Name	Type	Comment
Y	07/05/2018 3:52 pm	StevenH	Signer	
Y	07/05/2018 12:21 pm	AuroraD	Analyst	

[X] ACCEPTABLE: May release all data upon final review of individual results.
[ ] CAUTION: May release some or all data upon intense scrutiny of individual results.
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Printed: 07/05/2018 3:52 pm

Lab SampleRange: **33202-33310**

Soil: **Buffer pH - Sikora**

Amarillo: Soil Data Quality Control Report

Jul 5 2018 8:23AM 547544 Batch: A Instrument: Amarillo Auto pH

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range	Outliers LT(%) 1	2	3
CCV	6.42	6.44	6.45	6.42	6.44	6.43							1,171	6.52		0.19		2.8		6.29 - 6.59			
HAR1	6.55	6.54	6.60	6.56	6.55	6.56							1,404	6.58	6.58	0.06	0.04	0.9	0.6	6.50 - 6.66	16	3	2
LAB #																							
ORIGINAL																							
DUPLICATE																							
% RD																							

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD		5/6 83.3%	(>=33.3%)	
2 SD		6/6 100.0%	(>=66.7%)	(<25%)
3 SD		6/6 100.0%	(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 12/12 100.0%

Agronomic Relevance 0.1

Order of Analysis:

Missing Samples: 33202 33203 33204 33205 33206 33265 33267 >33204 33269 33271 33273 33275 33277 33279 33281 >33269 33283 33285 33287 33289 33291 33293 33295 >33285 33296 33297 33298 33299 33300 33301 33302 >33295 33303 33304 33305 33306 33307 33308 >33304 >33307

Approved	Date / Tme	Name	Type	Comment
Y	07/05/2018 3:52 pm	StevenH	Signer	
Y	07/05/2018 12:21 pm	AuroraD	Analyst	

[X] ACCEPTABLE: May release all data upon final review of individual results.
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Printed: 07/05/2018 3:52 pm

Lab SampleRange: **33297-33392**

Soil: **Percent Sand (Hydrometer)**

Amarillo: Soil Data Quality Control Report

Jul 9 2018 7:36AM 547850 Batch: A Instrument: AMA-YSI 2700

Hydrometer

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range	Outliers LT(%) 1	2	3
MB	100.00												198	100.00		0.00		0.0		99.00 - 100.00			
PLP	52.91												61	47.94	47.08	5.02	3.09	10.5	6.6	40.91 - 53.26	13	5	2

LAB #	33297
ORIGINAL	72.77
DUPLICATE	71.83
% RD	1.3

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD		1/1 100.0%	(>=33.3%)	
2 SD		1/1 100.0%	(>=66.7%)	(<25%)
3 SD		1/1 100.0%	(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 3/3 100.0%

Order of Analysis: MB-1, PLP-1, 33297, 33392, >33297

Missing Samples:

Approved	Date / Tme		Name	Type	Comment
Y	07/10/2018	3:24 pm	KellyB	Signer	
Y	07/10/2018	2:58 pm	JacobD	Analyst	

[X] ACCEPTABLE: May release all data upon final review of individual results.
[ ] CAUTION: May release some or all data upon intense scrutiny of individual results.
[ ] REJECTION: Hold all data and re-analyse part or all data.

Printed: 07/10/2018 3:43 pm

Lab SampleRange: 33297-33392

Soil: Percent Clay (Hydrometer)

Amarillo: Soil Data Quality Control Report

Jul 9 2018 7:36AM 547850 Batch: A Instrument: AMA-YSI 2700

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range	Outliers LT(%) 1	2	3
MB	0.00												198	0.00		0.00				-2.00 - 2.00			
PLP	14.87												61	14.62	14.65	1.69	1.25	11.6	8.5	12.15 - 17.15	15	3	3

LAB #	33297
ORIGINAL	17.33
DUPLICATE	15.92
% RD	8.5

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD		1/1 100.0%	(>=33.3%)	
2 SD		1/1 100.0%	(>=66.7%)	(<25%)
3 SD		1/1 100.0%	(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 3/3 100.0%

Order of Analysis:

Missing Samples: NONE

Approved	Date / Tme	Name	Type	Comment
Y	07/10/2018 3:24 pm	KellyB	Signer	
Y	07/10/2018 2:58 pm	JacobD	Analyst	

[X] ACCEPTABLE: May release all data upon final review of individual results.
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[ ] REJECTION: Hold all data and re-analyse part or all data.

Printed: 07/10/2018 3:24 pm

SAMPLE LOCATION PLAN

City of McAllen Softball Field Facilities Municipal Park ■ McAllen, TX
July 9, 2018 ■ Terracon Project No. 88181117

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

AERIAL PHOTOGRAPHY PROVIDED BY MICROSOFT BING MAPS

CHANIN ENGINEERING

STRUCTURAL ENGINEERING

400 NOLANA SUITE H2
MCALLEN, TX 78504
TEL. 956- 687- 9421
FAX 956- 687- 3218
FIRM REG. NUMBER F-9369

ADD#1

July 26, 2018

"Softball Field Facilities Municipal Park Reno."

PLEASE NOTE CHANGES AS FOLLOWS:

Structural Attachments:

B. Replacement of (3) 22x34 sheets (S3.0, S4.0, and S5.0).

End of ADD #1

5000 West Military, Ste 100
McAllen, Texas 78503
(956) 664-0286
Fax (956) 664-0282

ADDENDUM 1 NARRATIVE

To:	City of McAllen Parks and Recreation.	**Date:**	07/26/2018
From:	Hugo H. Avila, P.E. Thomas E. Dearmin, P.E.	**AVO:**	33348.001
Email:	hAvila@Halff.com TDearmin@halff.com	**Project:**	City of McAllen Softball Field Facilities. Municipal Park.
Subject:	Addendum No. 1		

STATE OF TEXAS
HUGO H. AVILA
90071
LICENSED
PROFESSIONAL ENGINEER
7-26-18

STATE OF TEXAS
THOMAS E. DEARMIN
54352
REGISTERED
PROFESSIONAL ENGINEER
7/26/18

The following are additions, modifications and clarification notes made to the plans and specifications. The changes are outlined by item number.

MECHANICAL

ITEM 1. Modification: Sheet M1.01, to Keyed Note 1. Modified verbiage to reflect cupola addition.

ITEM 2. Modification: Sheet M1.01, to Mechanical Plan. Removed relief hoods and re-route ductwork.

ITEM 3. Removal: Sheet M2.01, Relief Hood Schedule. Relief Hood Schedule has been deleted. Schedule no longer applies

ELECTRICAL

ITEM 1. Addition: Sheet E1.04, added cupola plans for lighting and power. Added Keyed Notes #10 and #11.

ITEM 2. Modification: Sheet E3.04, modified panel schedule 'L3' to reflect electrical circuit to outlet at cupola.

PLUMBING

ITEM 1. Modification: Sheet P1.01, added Keyed Note 4. Keynote to terminate VTR inside cupola addition.

ITEM 2. Modification: Sheet P1.01, added Keyed Note 5. Keynote to incorporate trap primer lines under slab.

ITEM 3. Modification: Sheet P1.02, added trap primer valve above ceiling.

GENERAL CONSTRUCTION NOTES:

1) ALL IMPROVEMENTS TO BE IN ACCORDANCE WITH CITY OF McALLEN CODES.

2) CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING FACILITIES PRIOR TO CONSTRUCTION. ANY

3) CONTRACTOR TO PLAN AND PERFORM HIS WORK IN A MANNER THAT WILL PERMIT SAFE PUBLIC TRAFFIC MOVEMENT ON ALL STREETS.

4) TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO BE IN ACCORDANCE WITH SPECIFICATIONS AND AS REQUIRED BY THE CITY OF McALLEN (NO SEPARATE PAY).

5) CONTRACTOR SHALL PROVIDE PROTECTIVE DEVICES SUCH AS SIGNS, LIGHTS, AND SIGNALS FOR THE SAFETY OF THE PUBLIC AND WORKERS, AS REQUIRED. (NO SEPARATE PAY)

6) CONTRACTOR TO BE RESPONSIBLE FOR PROTECTION AND/OR SAFETY OF THE WORK SITE, WORKERS, SUBCONTRACTORS, MATERIALS AND/OR EQUIPMENT.

7) CONSTRUCTION STAKING SHALL BE PROVIDED BY THE CONTRACTOR AND AT CONTRACTOR'S EXPENSE. ALL DIMENSIONS ARE TO FACE OF CURBS UNLESS SHOWN OTHERWISE.

8) MATERIAL TESTING SHALL BE PROVIDED BY THE OWNER. RE-TEST TO BE AT CONTRACTOR'S EXPENSE.

9) CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN (IF REQUIRED), FOR APPROVAL BY THE CITY ENGINEERING OFFICE PRIOR TO CONSTRUCTION.

10) CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED AND AT CONTRACTOR'S EXPENSE.

11) ANY DAMAGES TO EXISTING STRUCTURES SHALL BE REPAIRED TO PRE-CONSTRUCTION CONDITION OR BETTER AT THE CONTRACTORS EXPENSE.EXISTING STRUCTURES MAY INCLUDE BUT ARE NOT LIMITED TO ANY DAMAGE TO EXISTING PAVEMENT, DRAINAGE OR EXISTING STRUCTURES SHALL BE REPAIRED TO PRE-CONSTRUCTION CONDITION AT CONTRACTOR'S EXPENSE.

12) "THESE PLANS DO NOT EXTEND TO OR INCLUDE DESIGN OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF HALFF ASSOCIATES, INC. REGISTERED PROFESSIONAL ENGINEER (S) HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED IN THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS, INCLUDING THE PLANS AND SPECIFICATIONS REQUIRED BY THE HOUSE BILLS 662 AND 665 ENACTED BY THE TEXAS LEGISLATURE IN THE 70TH LEGISLATURE REGULAR SESSION."

13) CONTRACTOR SHALL GIVE NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES AFFECTED BY HIS OPERATIONS PRIOR TO COMMENCEMENT OF WORK. NOTIFY TEXAS ONE CALL FOR UTILITY LOCATIONS PRIOR TO ANY & ALL EXCAVATIONS.

14) CONTRACTOR TO COORDINATE WITH THE CITY OF McALLEN ON WORK SCHEDULES, TESTING, GENERAL INSPECTION, AND EXISTING LINES.

15) CONTRACTOR TO EXERCISE CAUTION WHEN WORKING NEAR EXISTING FACILITIES AND/OR UTILITIES. ALL DAMAGE TO BE REPAIRED AT CONTRACTOR'S EXPENSE. ALL COSTS FOR INTERRUPTION OF GAS, ELECTRICAL, COMMUNICATIONS AND/OR WATER SERVICE DUE TO CONTRACTOR'S WORK SHALL BE BORNE BY THE CONTRACTOR.

16) INFORMATION ON EXISTING UTILITIES IS FROM BEST AVAILABLE INFORMATION OF RECORD AND SPOT FIELD LOCATIONS. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION AND LOCATION OF THESE UNDERGROUND UTILITIES AS REQUIRED AT NO SEPARATE PAY.

17) ALL SPOIL MATERIAL AND DEBRIS SHALL BE DISPOSED OFFSITE BY CONTRACTOR IN A LEGAL MANNER. FURNISHING AND TRANSPORTATION OF ALL OFFSITE MATERIAL TO BE AT CONTRACTOR'S EXPENSE.

18) UPON COMPLETION OF CONSTRUCTION CONTRACTOR SHALL RETURN THE SITE TO ORIGINAL CONTOURS UNLESS DIFFERENT FINISHED ELEVATIONS ARE SHOWN ON PLANS. CONTRACTOR TO INSURE NO AREAS OF PONDING ARE PRESENT.

19) CONCRETE NOTES:
A) ALL CONCRETE WORK TO BE FORMED, UNLESS OTHERWISE APPROVED.
B) ALL CONCRETE TO BE 3000-PSI MINIMUM AT 28 DAYS, UNLESS OTHERWISE SHOWN. STRENGTH TO BE DETERMINED BY CYLINDER BREAK TEST.
C) ALL REINFORCING STEEL TO BE ASTM A-615, GRADE 60, UNLESS OTHERWISE SHOWN.
D) ALL EXPOSED CONCRETE WORK TO BE CHAMFERED.

20) CONTRACTOR TO INSURE SAME DAY ACCESS TO ALL RESIDENCES AND BUSINESSES ADJACENT TO CONSTRUCTION.

21) DEMOLITION, REMOVAL & DISPOSAL OF ALL EXCESS CONCRETE, CURBS, RUBBLE, ETC. TO BE DONE IN A LEGAL MANNER AT CONTRACTOR'S EXPENSE.

22) ALL TRAFFIC CONTROL / TRAFFIC SAFETY SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) CRITERIA.

23) CONTRACTOR TO PROVIDE ALL NECESSARY PERMITS AS REQUIRED TO COMPLETE PROJECT AT THE CONTRACTOR'S EXPENSE.

PAVING CONSTRUCTION NOTES:

1) HOT MIX ASPHALT CONCRETE TO BE IN ACCORDANCE WITH TXDOT SPECIFICATION TYPE "D"

2) SUBGRADE EXCAVATION AND RECOMPACTION TO BE INCLUDED IN PRICE BID PER SQUARE YARD FOR "LIME TREATED SUBGRADE."

3) CONTRACTOR TO FILL BEHIND CURBS AND WALKS AND SHAPE TO ENSURE PROPER DRAINAGE.

4) CONTRACTOR SHALL "LAY DOWN" CURB SECTION AT DRIVEWAYS LOCATIONS SHOWN ON DRAWINGS. CONTRACTOR SHALL BE REQUIRED TO GRADE FROM EXISTING DRIVES AND PARKING AREAS TO MATCH GRADES AND ALLOW SMOOTH TRANSITIONS AND PROPER DRAINAGE. (NO SEPARATE PAY)

5) CONSTRUCTION JOINTS TO EXISTING PAVEMENT SHALL BE MADE BY EITHER CUTTING BACK EXISTING TO PRODUCE A SLIGHTLY BEVELED EDGE FOR THE FULL THICKNESS OF THE WEARING COURSE OR A SUITABLE LAP JOINT SHALL BE MADE. SAW CUTTING REQUIRED.

6) NO TRAFFIC SHALL BE ALLOWED ON THE FINISHED WEARING SURFACE UNTIL AT LEAST 12 HOURS AFTER COMPLETION OF ROLLING.

7) WHEN TYING INTO EXISTING CURB, EXPOSE REBAR AND FORM EXPANSION JOINT PER DETAIL.

8) ANY SETTLEMENT UNDER PAVEMENT DUE TO INADEQUATE COMPACTION OF UTILITY LINE BACKFILL SHALL BE CAUSE FOR RECOMPACTION OF TRENCH AND REPLACEMENT OF PAVEMENT SECTION AT CONTRACTOR'S EXPENSE.

9) HOT MIX ASPHALT CONCRETE TRANSPORT TRUCKS TO BE EQUIPPED WITH CANVAS COVERS TO BE UTILIZED DURING MATERIAL HAULING. MATERIAL DELIVERED TO SITE AT IMPROPER TEMPERATURE SHALL BE REJECTED. HOT MIX SHALL BE LAID AT A MINIMUM TEMPERATURE OF 225°F

STORM DRAINAGE LINE CONSTRUCTION NOTES:

1) CONTRACTOR TO PROVIDE POSITIVE OUTFLOW FOR DRAINAGE BASIN AT ALL TIMES. IN THE CASE OF A STORM EVENT, CAPACITY FOR STORM WATER RUNOFF SHALL BE PROVIDED ON SITE AS A TEMPORARY DETENTION FACILITY TO MINIMIZE ADJACENT LOCAL FLOODING.

2) CONTRACTOR SHALL PROVIDE A SEQUENCE OF WORK FOR STORM DRAINAGE TIE INS THAT PROVIDES POSITIVE OUTFLOW AT ALL TIMES.

3) CONTRACTOR TO FIELD VERIFY THE LOCATION OF EXISTING UTILITIES & FACILITIES PRIOR TO CONSTRUCTION.

4) ALL REINFORCED CONCRETE STORM PIPES SHALL BE CLASS III WITH RUBBER GASKET SEALED JOINTS, UNLESS OTHERWISE NOTED ON PLANS.

5) ALL HIGH DENSITY POLYETHYLENE (HDPE) STORM PIPES SHALL HAVE WATERTIGHT JOINTS.

WATERLINE CONSTRUCTION NOTES:

1) ALL WATER LINES TO BE C-900 CLASS 150 PVC UNLESS OTHERWISE NOTED.

2) DOUBLE CHECK VALVE WILL BE REQUIRED WHEN FILLING NEW WATERLINE FOR PRESSURE TESTING.

3) ALL WATER & WASTEWATER COLLECTION LINE CROSSING TO BE CONSTRUCTED IN ACCORDANCE WITH TCEQ REGULATION, CHAPTER 290 & 217.

4) CONTRACTOR TO FIELD LOCATE EXISTING METERS & PROPOSED SERVICE CONNECTION LOCATIONS PRIOR TO CONSTRUCTION OF MAIN.

5) CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING LINES TO BE TIED IN TO NEW MAIN PRIOR TO SETTING LOCATION OF TIE-IN TEE & VALVE ON MAIN.

6) WATERLINE MAINS TO BE HYDROSTATICALLY & BACTERIOLOGICALLY TESTED PER CITY OF McALLEN REQUIREMENTS PRIOR TO TIE-INS. CITY OF McALLEN APPROVAL OF TESTING IS REQUIRED.

7) CONTRACTOR SHALL NOTIFY McALLEN PUBLIC UTILITY TO OPERATE ALL LIVE WATER MAIN VALVES NEEDED TO COMPLETE NEW WORK.

8) CONTRACTOR SHALL MAINTAIN AS MINIMUMS 10 FEET HORIZONTAL AND 2 FEET VERTICAL SEPARATION BETWEEN WATER LINES AND ANY OTHER SEWER.

9) NO WATER JETTING ALLOWED, MECHANICAL COMPACTION REQUIRED.

10) FIRE HYDRANTS SHALL BE PLACED 3.0 FEET BEHIND BACK OF CURB AND FLANGE SHALL BE 6 INCHES ABOVE GRADE.

11) CONTRACTOR SHALL MAINTAIN A MINIMUM OF 3.0 FEET OF COVER ON ALL WATER LINES.

12) FITTINGS TO BE USED ON DEFLECTIONS AS NEEDED.

13) CONTRACTOR IS RESPONSIBLE FOR INSTALLING VALVES, FITTINGS, AND ALL INCIDENTALS AS NEEDED FOR A COMPLETE IN PLACE SYSTEM AND SHALL BE SUBSIDIARY TO PIPE INSTALLATION.

14) CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY PIPING, VAVLES, FITTINGS, ETC, AS NEEDED FOR ANY TEMPORARY WATER SERVICES.

15) IF DEWATERING IS REQUIRED FOR INSTALLATION OF UNDERGROUND IMPROVEMENTS. ALL OPERATIONS AND MAINTENANCE NEEDED FOR REMOVAL OF GROUNDWATER TO PROPERLY INSTALL NEW IMPROVEMENTS SHALL BE SUBSIDIARY TO THE IMPROVEMENT BEING INSTALLED, NO SEPARATE PAY ITEM.

WASTEWATER COLLECTION LINE CONSTRUCTION NOTES:

1) ALL PROPOSED SEWER LINES WILL BE SDR 26 PIPE MATERIAL (UNLESS OTHERWISE NOTED).

2) CONTRACTOR TO PROVIDE DEFLECTION TEST IN ACCORDANCE WITH TCEQ CHAPTER 217.57 (b). MANDRAL TO BE PULLED IN BOTH DIRECTIONS

3) CONTRACTOR TO PROVIDE LOW PRESSURE AIR TEST IN ACCORDANCE WITH TCEQ CHAPTER 217.57 (a), (1). 30 DAYS AFTER INSTALLATION. NO WATER TEST ALLOWED.

4) CONTRACTOR TO FIELD VERIFY THE LOCATION OF EXISTING UTILITIES & FACILITIES PRIOR TO CONSTRUCTION.

5) ALL CROSSING OF WASTEWATER COLLECTION LINES AND WATERLINES CONSTRUCTED IN ACCORDANCE WITH TCEQ REGULATIONS CHAPTER 290 AND 217.

6) CONTRACTOR TO PROVIDE LEAKAGE TEST FOR MANHOLE IN ACCORDANCE WITH TCEQ CHAPTER 217.58 (a), (b) OF THE STATE WASTEWATER CODE NO WATER TEST ALLOWED.

7) NO WATER JETTING ALLOWED, MECHANICAL COMPACTION REQUIRED.

8) ALL STRUCTURES TO BE ADJUSTED BY THE CONTRACTOR TO MEET FINAL GRADES, A MAXIMUM OF 2 FEET OF THROAT RINGS WILL BE ALLOWED.

UTILITY GENERAL NOTES:

1) CONTRACTOR TO CONTACT ALL UTILITY COMPANIES IN THE AREA FOR FIELD VERIFICATION OF EXISTING FACILITIES. UTILITY COMPANIES TO INCLUDE BUT NOT LIMITED TO THE FOLLOWING :

McALLEN PUBLIC UTILITY (MPU) .....(956) 681-1600
CITY OF McALLEN PUBLIC WORKS .....(956) 681-4000
TEXAS ONE CALL.....(800) 344-8377
DIG TESS.....(800) DIG-TESS
TEXAS GAS SERVICE.....(800) 700-2443
AT&T TEXAS.....(800) 288-2020
TIME WARNER CABLE.....(800) 222-5355
AEP TEXAS.....(800) 344-8377
CITY OF MCALLEN ENGINEERING DEPARTMENT.....(956) 681-1150
CITY OF MCALLEN WATERLINE MAINTENANCE.....(956) 681-1660
CITY OF MCALLEN WASTE WATER SYSTEMS.....(956) 681-1750
CITY OF MCALLEN TRAFFIC OPS (CITY FIBER).....(956) 681-2700

2) CONTRACTOR TO EXPOSE ANY EXISTING UTILITY THAT MAY BE IN CONFLICT PRIOR TO START OF EXCAVATION.

3) ALL EXISTING UTILITIES SHOWN ARE FROM BEST INFORMATION AVAILABLE. NEITHER THE ENGINEER NOR THE CITY TAKE RESPONSIBILITY FOR ACCURACY OF LOCATION.

4) CONTRACTOR SHALL AT ALL TIMES ALLOW ACCESS TO EXISTING DRIVEWAY OR PROVIDE/MAINTAIN ALTERNATIVE ALL-WEATHER ROUTES.

5) ANY DAMAGES TO FENCES, WALKS, OR PRIVATE PROPERTY SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

6) ALL CONSTRUCTION MATERIALS TESTING WILL BE COORDINATED THROUGH THE OWNER.

7) WORK REQUIRED TO BE INSPECTED BY THE CITY SHALL OCCUR DURING REGULAR WORKING HOURS, MONDAY THROUGH FRIDAY. NO WORK TO OCCUR DURING CITY HOLIDAYS, NON-WORKING HOURS, MONDAY THROUGH FRIDAY, AND WEEKENDS UNLESS APPROVED BY THE CITY. INSPECTION OVERTIME COSTS TO BE PAID BY CONTRACTOR.

8) USE CLASS 'B' EMBEDMENT FOR UTILITY TRENCHES UNDER PAVEMENT.

9) IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ALL EXCAVATED MATERIAL AND DEBRIS FROM THE SITE.

10) McALLEN PUBLIC UTILITY (MPU) NOTE- ALL EXISTING WATER MAINS AND FIRE HYDRANTS ARE TO REMAIN ACTIVE UNTIL PROPOSED WATER IMPROVEMENTS ARE COMPLETE AND READY FOR CONNECTION. NIGHT TIME CONNECTIONS WILL BE REQUIRED.

11) McALLEN PUBLIC UTILITY (MPU) NOTE- CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH MPU REGARDING REMOVAL OF EXISTING WATER METERS PRIOR TO COMMENCEMENT OF ANY REMOVED WORK.

12) McALLEN PUBLIC UTILITY (MPU) NOTE- EXISTING SEWER MAINS ARE TO REMAIN ACTIVE UNTIL PROPOSED SECTIONS ARE COMPLETE AND READY FOR CONNECTION.

13) CONTRACTOR IS RESPONSIBLE FOR ALL MPU FEES AS REQUIRED INCLUDING BUT NOT LIMITED TO TAPPING AND METER FEES.

BENCHMARK AND TOPOGRAPHY NOTES:

TEMPORARY BENCHMARKS (TBM) AND TOPOGRAPHIC SURVEY INFORMATION WAS PROVIDED BY THE CITY OF MCALLEN UNDER SEPERATE CONTRACT:

1) TBM #1: SET ON CURB INLET WITHIN PARK'S PARKING LOT LIMITS, APPROXIMATELY 450' WEST OF THE INTERSECTION OF QUINCE ST. AND N. BICENTENNIAL BLVD.
ELEVATION= 115.16 (NAVD88)
N= 16605622.31
E= 1070065.94
(NAD83)

1) TBM #2: SET ON CURB INLET AT THE SOUTHWEST CORNER OF TAMARACK AVENUE AND N. BICENTENNIAL BLVD.
ELEVATION= 115.80 (NAVD88)
N= 16606328.72
E= 1070579.89
(NAD83)

BENCHMARKS PROVIDED BY CITY OF McALLEN
TBM #1
SET ON CURB INLET WITHIN PARK'S PARKING LOT LIMITS , APPROXIMATELY 450' WEST OF THE INTERSECTION OF QUINCE ST. AND N. BICENTENNIAL BLVD. ELEVATION= 115.16 (NAVD88) N= 16605622.31 E= 1070065.94 (NAD83)
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CITY OF McALLEN
SOFTBALL FIELD FACILITIES
MUNICIPAL PARK
McALLEN, TEXAS

McALLEN Parks & Recreation

HALFF
5000 WEST MILITARY HWY. SUITE 100
McALLEN, TX 78503
TEL (956) 682-0285
FAX (956) 664-0282
TBPE FIRM #F-312

Revision			
No.	Date	Description	
1	7-26-2018	Addendum No.1	

STATE OF TEXAS
ROBERT L. SAENZ
82072
REGISTERED PROFESSIONAL ENGINEER

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Project No.:	33348.001
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Checked By:	RM
Scale:	AS NOTED

Sheet Title
GENERAL NOTES

C0.02
Sheet Number

Job: 33348.001
Date: 7/26/2018 1:45:03 PM
User: alr1862
HALFF
Drawing: J:\33348\001\CAD\Sheets\C0.02-GN-33348.dgn
FILE: J:\PROJECT_APPS_FOLDER\CIVIL\TBL\HALFF_CIVIL_COLOR.CTB

AREA OF DEMOLITION

NOTES:

1. ALL MATERIAL CALLED OUT TO BE REMOVED BY THE CONTRACTOR SHALL BE DISPOSED IN A LEGAL MANNER AT THE CONTRACTOR'S EXPENSE.
2. PAVEMENT REMOVAL IS INCLUDING, BUT NOT LIMITED TO, ASPHALT PAVEMENT , BASE MATERIAL, SUBGRADE, CURB & GUTTER, WHEEL STOPS AND CONCRETE SIDEWALK AS REQUIRED.
3. POLES AND BASES TO BE REMOVED. SIGNS TO BE SALVAGED AND REUSED.
4. DURING CONSTRUCTION THE CONTRACTOR MAY ENCOUNTER BURIED CONCRETE FOUNDATIONS WITH REBAR. THE CONTRACTOR WILL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF SAID FOUNDATIONS TO A DEPTH OF FIVE (5) FEET. BIDDERS SHALL PROVIDE A UNIT COST (PER TON) FOR THIS ITEM. THE OWNER WILL REQUIRE THE CONTRACTOR TO PROVIDE CERTIFIED WEIGHT TICKETS FOR PAYMENT OF THIS ITEM.
5. COORDINATE WITH LANDSCAPE PLANS FOR ADDITIONAL TREES THAT MAY NEED REMOVAL
6. COORDINATE WITH IRRIGATION PLANS FOR ADDITIONAL IRRIGATION INFORMATION.

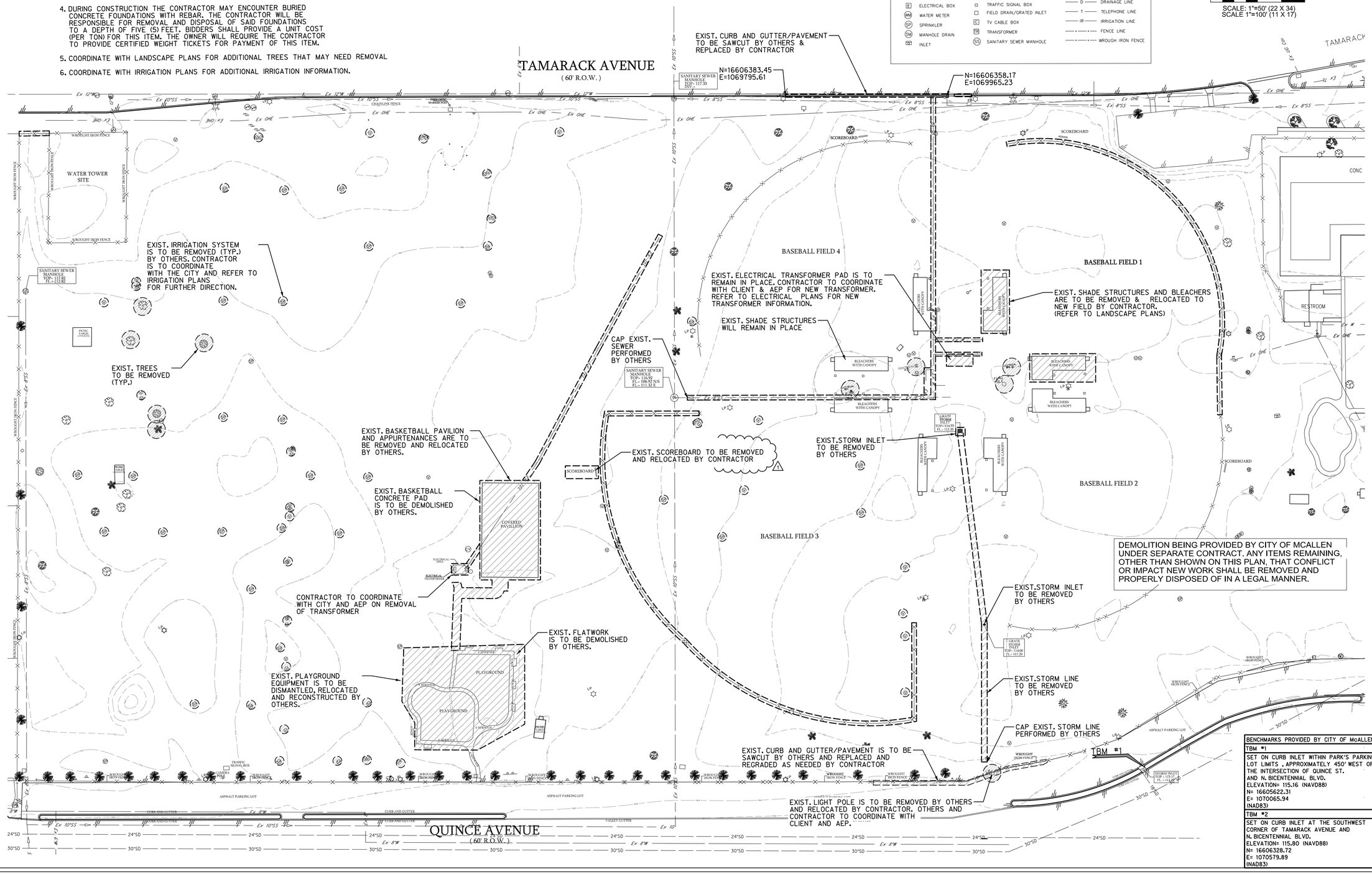
LEGEND

WATER VALVE	SIGN	DRAINAGE MANHOLE
FRESNO TREE	WATER VALVE MARKER	LAMP POST
MESQUITE TREE	TELEPHONE MARKER	JUNCTION BOX
ALAMO TREE	FIRE HYDRANT	GAS METER
EBONY TREE		
PALM TREE	CONTROL VALVE	WATER LINE
DOWN GUY	TRAFFIC SIGN	GAS LINE
LIGHT POLE	POWER POLE	SAN. SEW. LINE
ELECTRICAL BOX	TRAFFIC SIGNAL BOX	DRAINAGE LINE
WATER METER	FIELD DRAIN/GRATED INLET	TELEPHONE LINE
SPRINKLER	TV CABLE BOX	IRRIGATION LINE
MANHOLE DRAIN	TRANSFORMER	FENCE LINE
INLET	SANITARY SEWER MANHOLE	WROUGH IRON FENCE

N

0 25 50 75 100

SCALE: 1"=50' (22 X 34)
SCALE 1"=100' (11 X 17)



BENCHMARKS PROVIDED BY CITY OF McALLEN
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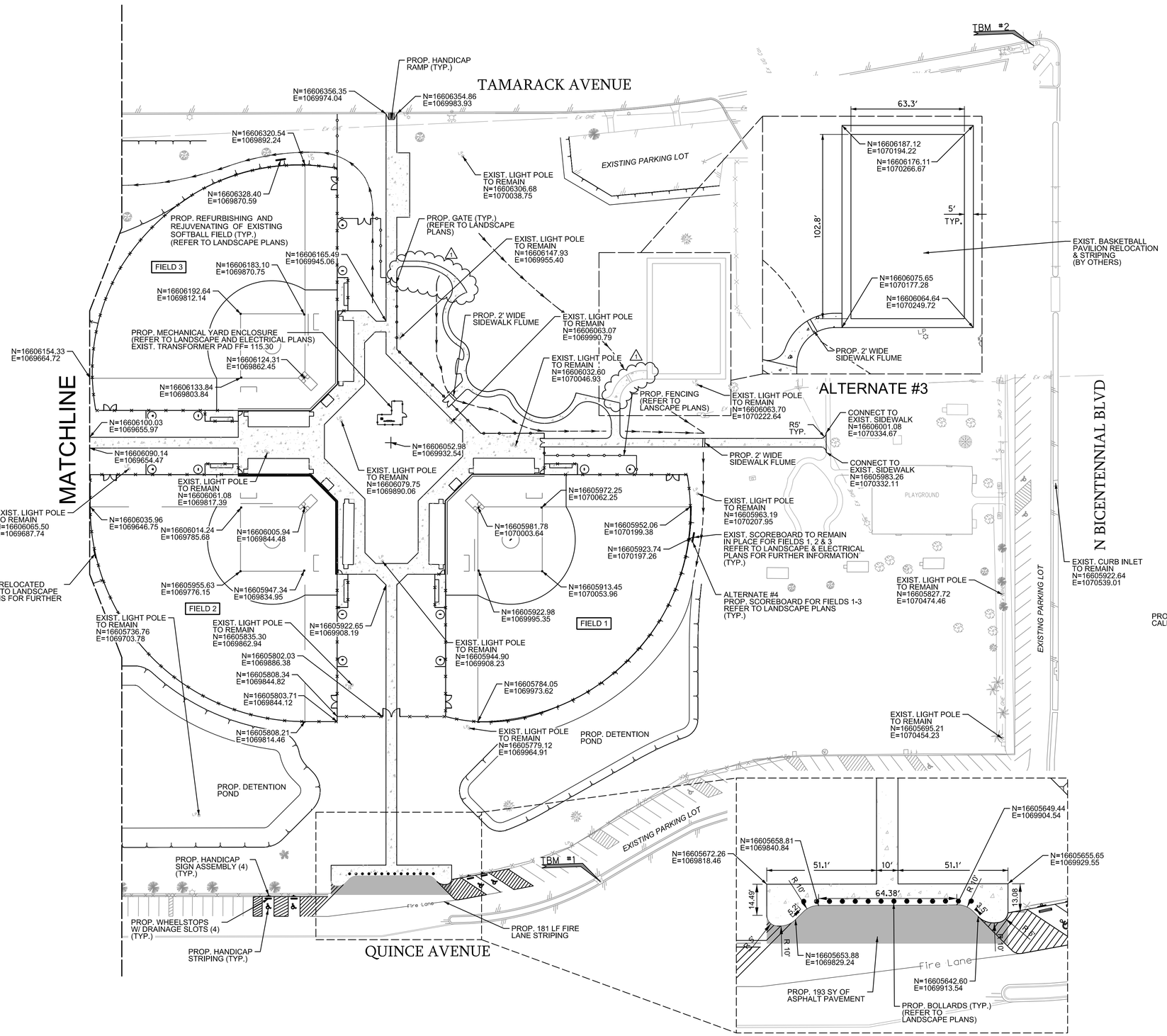
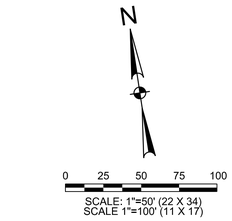
Sheet Title

DEMOLITION PLAN
(FOR INFORMATION ONLY)

C0.04

Sheet Number

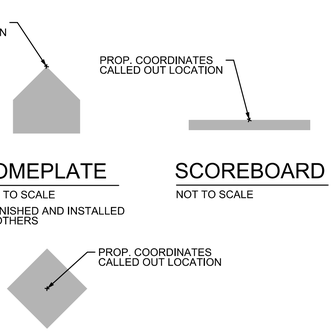




LEGEND

PROPOSED	EXISTING	
	CI	INLET
	GI	GRATE INLET
	MH	MANHOLE
	WV	GATE VALVE & BOX
	WM	WATER METER
	FH	FIRE HYDRANT
	—EX 6"SS—	SAN. SEWER
—W—	—EX 6"W—	WATER
—FIRE—	—Ex FIRE—	FIRE PROTECTION
	— 36"SD —	STORM SEWER
		ASPHALT PAVEMENT
		CONCRETE
		CAUTION UTILITY CROSSING

NOTES:
1. FOR INTERNAL PLAZA AND SOFTBALL FIELDS PAVING & DIMENSIONAL CONTROL REFER TO LANDSCAPE PLANS.
2. MUSCO LIGHTING LOCATION ARE TO BE IDENTIFIED BY OTHERS. CONTRACTOR TO COORDIANTE WITH THE CITY AND MUSCO.
3. CONTRACTOR TO COORDINATE WITH CITY AND AEP ON THE LIGHTPOLE RELOCATION AT PRIMARY ENTRANCE. REFER TO ELECTRICAL PLANS.
4. ALTERNATE #3. PROP. BASKETBALL GOAL, RIM, POST, AND BACKBOARD TO BE FURNISHED BY THE CITY AND INSTALLED BY THE CITY. CONTRACTOR IS TO ONLY POUR CONCRETE PAD



HOMEPLATE
NOT TO SCALE
FURNISHED AND INSTALLED BY OTHERS

SCOREBOARD
NOT TO SCALE

BASES
NOT TO SCALE
FURNISHED AND INSTALLED BY OTHERS

BENCHMARKS PROVIDED BY CITY OF McALLEN

TBM #1
SET ON CURB INLET WITHIN PARK'S PARKING LOT LIMITS , APPROXIMATELY 450' WEST OF THE INTERSECTION OF QUINCE ST. AND N. BICENTENNIAL BLVD.
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E= 1070065.94
(NAD83)

TBM #2
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ELEVATION= 115.80 (NAVD88)
N= 16606328.72
E= 1070579.89
(NAD83)

CITY OF McALLEN
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McALLEN, TEXAS

McALLEN Parks & Recreation

HALFF
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McALLEN, TX 78503
TEL (956) 664-0285
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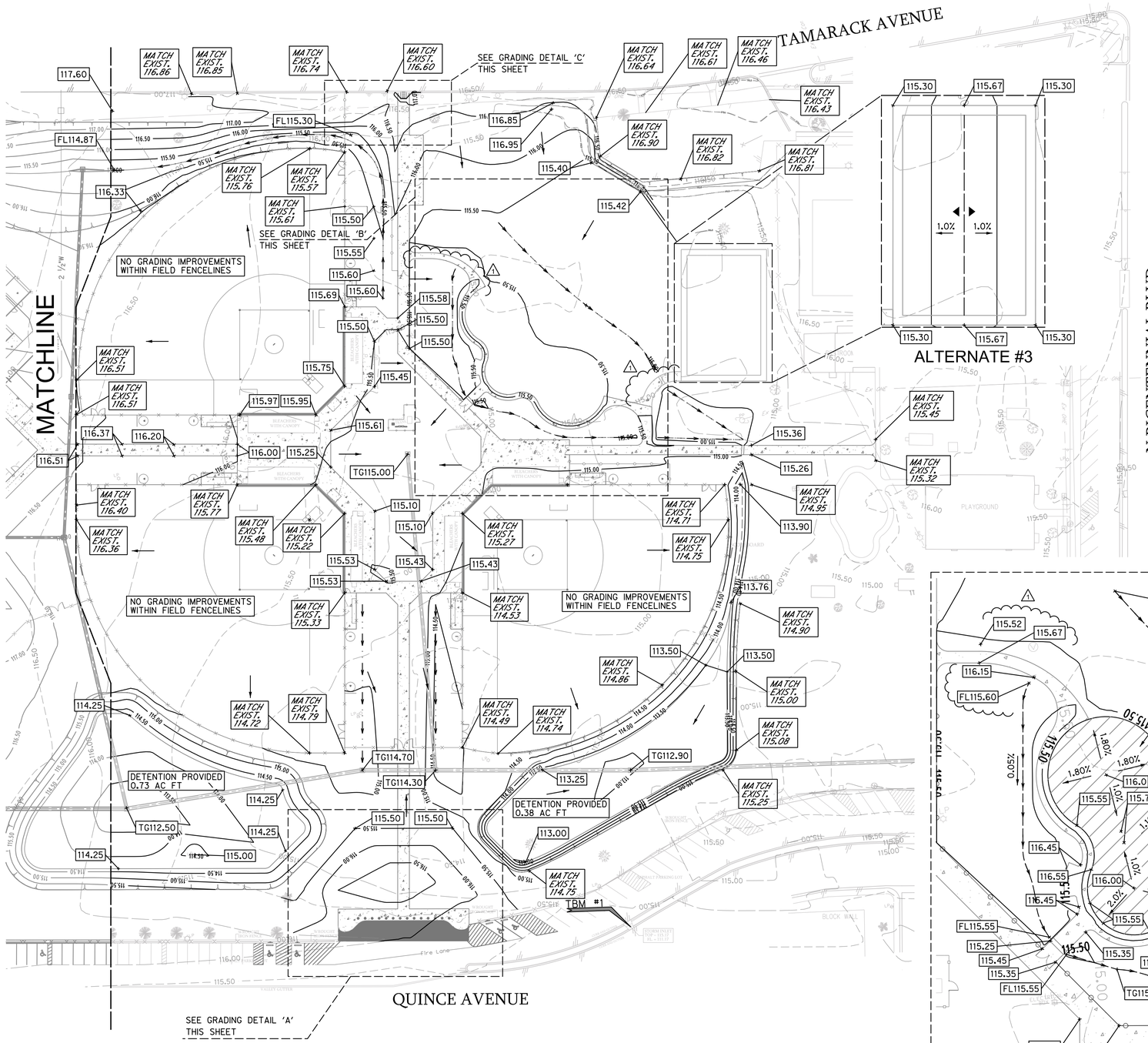
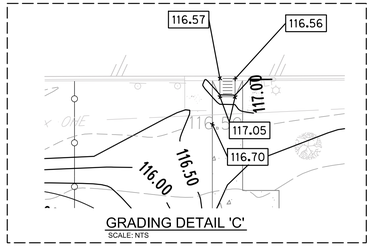
Scale:	AS NOTED

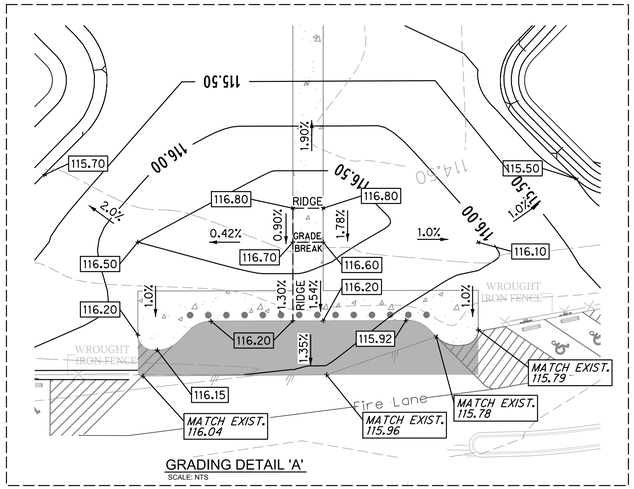
Sheet Title
PAVING & DIMENSION CONTROL PLAN

C1.02
Sheet Number

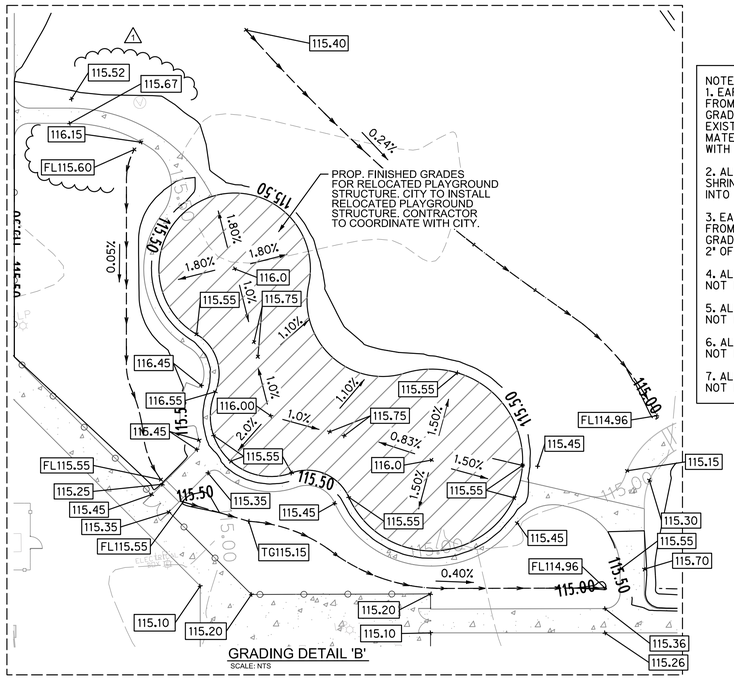




GRADING DETAIL 'C'
SCALE: NTS



GRADING DETAIL 'A'
SCALE: NTS



GRADING DETAIL 'B'
SCALE: NTS

N

0 25 50 75 100
SCALE: 1"=50' (22 X 34)
SCALE 1"=100' (11 X 17)

LEGEND

PROPOSED	EXISTING	
—100.00—	- -100.00- -	CONTOUR
→		DRAINAGE FLOW ARROW
+ FL100.00		FLOW LINE
+ TG100.00		TOP OF GRATE
+ 100.00		FINISHED GRADE

EARTHWORK QUANTITIES

TOTAL CUT = 5,536 CY
TOTAL FILL = 7,807 CY
BALANCE = -2,271 CY

NOTES:

1. EARTHWORK QUANTITIES WERE CALCULATED FROM EXISTING GRADE TO PROPOSED GRADES, WITH THE ASSUMPTION THAT ALL EXISTING DIRTWORK WILL BE UTILIZED AS FILL MATERIAL. CONTRACTOR TO COORDINATE WITH THE CITY FOR DIRTWORK TREATMENT.
2. ALL QUANITITIES ARE IN PLACE AND NO SHRINKAGE OR SWELLING WAS TAKEN INTO ACCOUNT.
3. EARTHWORK QUANTITIES WERE CALCULATED FROM EXISTING GRADE TO PROPOSED GRADES, 4" OF TOPSOIL AT FIELDS AND 2" OF TOPSOIL AT DISTURBED AREA INCLUDED.
4. ALL PROP. SIDEWALK CROSS SLOPES SHALL NOT EXCEED 2%.
5. ALL PROP. SIDEWALK RUNNING SLOPES SHALL NOT EXCEED 5%.
6. ALL PROP. CURB RAMP SIDE SLOPES SHALL NOT EXCEED 2%.
7. ALL PROP. CURB RAMP RUNNING SLOPES SHALL NOT EXCEED 8.33%.

GEOTECH REPORT BY:
TERRACON CONSULTANTS, INC.
PROJECT NO. 88175150
DATE: SEPTEMBER 18, 2017

BENCHMARKS PROVIDED BY CITY OF McALLEN
TBM #1 SET ON CURB INLET WITHIN PARK'S PARKING LOT LIMITS , APPROXIMATELY 450' WEST OF THE INTERSECTION OF QUINCE ST. AND N. BICENTENNIAL BLVD. ELEVATION= 115.16 (NAVD88) N= 16605622.31 E= 1070065.94 (NAD83)
TBM #2 SET ON CURB INLET AT THE SOUTHWEST CORNER OF TAMARACK AVENUE AND N. BICENTENNIAL BLVD. ELEVATION= 115.80 (NAVD88) N= 16606328.72 E= 1070579.89 (NAD83)

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McALLEN, TX 78503
TEL (956) 682-0088
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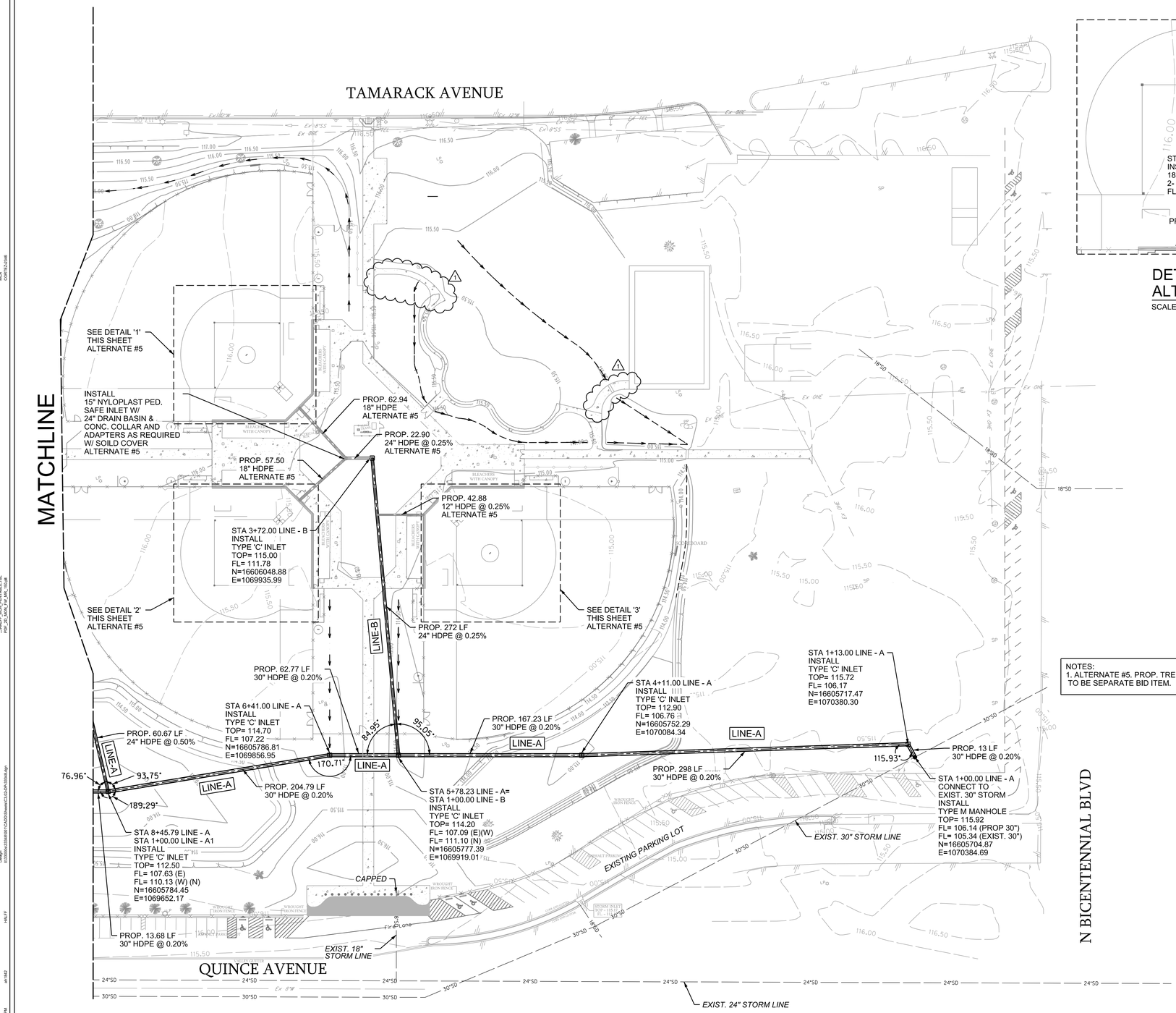
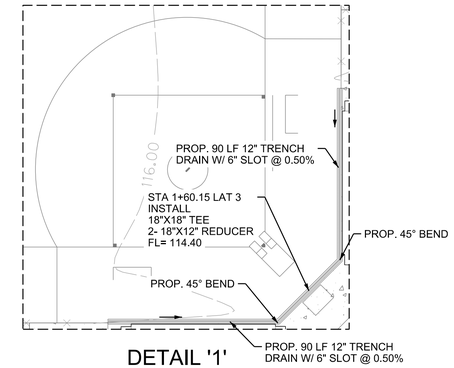
Sheet Title
GRADING PLAN

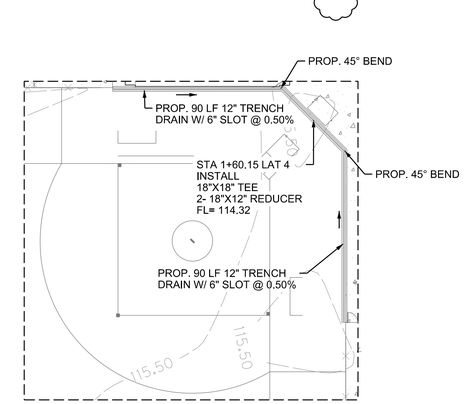
C2.02
Sheet Number





DETAIL '1' ALTERNATE #5

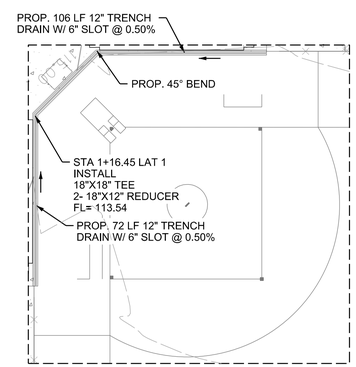
SCALE 1"=30'



DETAIL '2' ALTERNATE #5

SCALE 1"=30'

NOTES:
1. ALTERNATE #5. PROP. TRENCH DRAINS TO BE SEPARATE BID ITEM.



DETAIL '3' ALTERNATE #5

SCALE 1"=30'

N

0 25 50 75 100

SCALE: 1"=50' (22 X 34)
SCALE 1"=100' (11 X 17)

LEGEND

PROPOSED	EXISTING	
	CI	INLET
	GI	GRATE INLET
	MH	MANHOLE
	WV	GATE VALVE & BOX
	WM	WATER METER
	FH	FIRE HYDRANT
	EX 6"SS	SAN. SEWER
W	EX 6"W	WATER
FIRE	Ex FIRE	FIRE PROTECTION
	36"SD	STORM SEWER
		ASPHALT PAVEMENT
		CONCRETE
		CAUTION UTILITY CROSSING

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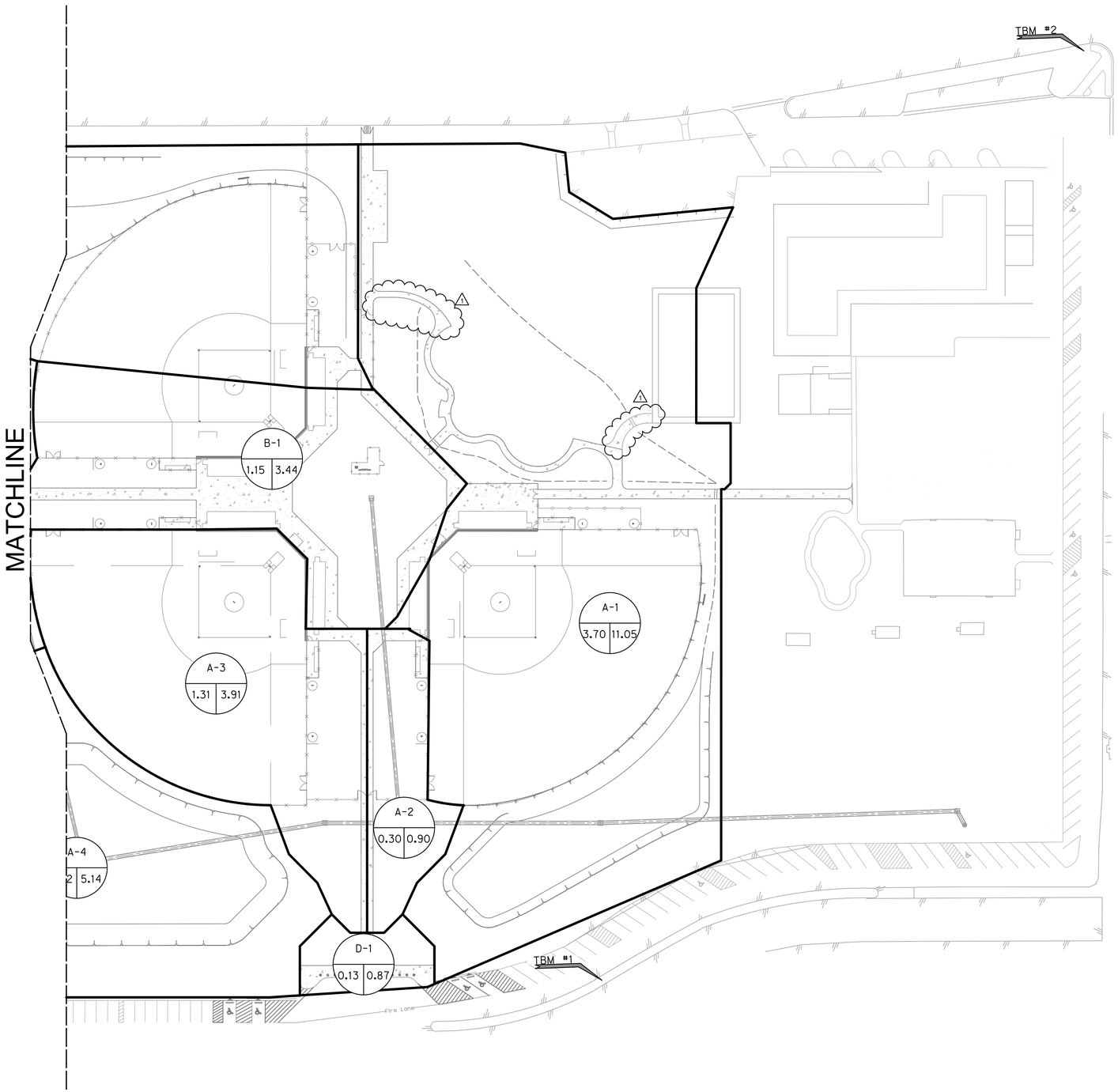
Sheet Number	C3.02



N

0 25 50 75 100

SCALE: 1"=50' (22 X 34)
SCALE 1"=100' (11 X 17)

LEGEND

PROPOSED	EXISTING	
	CI	INLET
	GI	GRATE INLET
	MH	MANHOLE
	WV	GATE VALVE & BOX
	WM	WATER METER
	FH	FIRE HYDRANT
	EX 6"SS	SAN. SEWER
W	EX 6"W	WATER
FIRE	EX FIRE	FIRE PROTECTION
	36"SD	STORM SEWER
		ASPHALT PAVEMENT
		CONCRETE
		CAUTION UTILITY CROSSING

X-1 — AREA IDENTIFICATION

AC — ACREAGE (ACRES)

Q_{10} — 10-YEAR INLET FLOW (CFS)

Q = CIA
C = TABLE
Tc = TABLE
I(10yr) = TABLE

BENCHMARKS PROVIDED BY CITY OF McALLEN
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Sheet Title

DRAINAGE AREA MAP

C4.02

Sheet Number

EROSION CONTROL LEGEND:

CURB/GRATE INLET PROTECTION

SF SILT FENCE

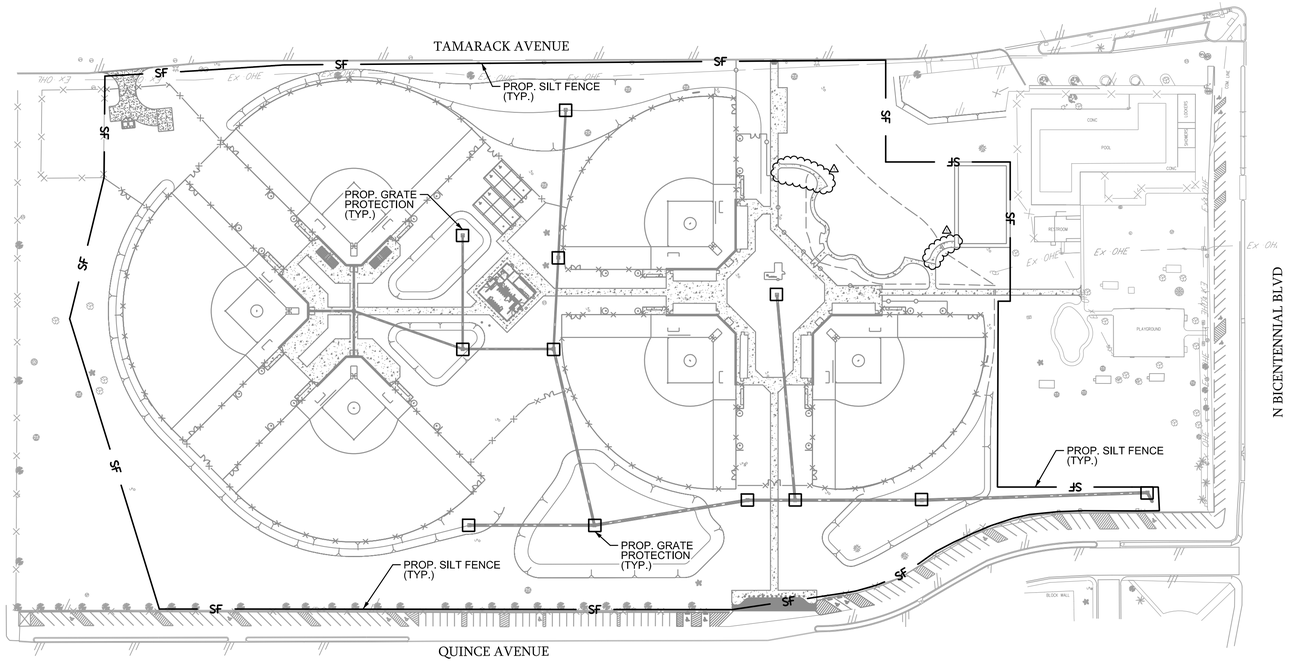
NOTE: THIS IS NOT A STORM WATER POLLUTION PREVENTION PLAN. CONTRACTOR MUST ADD HIS OPERATION SPECIFIC INFORMATION PER THE PERMIT REQUIREMENTS & INCLUDE ALL DOCUMENTATION & CERTIFICATES AS REQUIRED BY THE PERMIT.

NOTE:
STABILIZED CONSTRUCTION EXIT LOCATION TO BE DETERMINED BY CONTRACTOR.

N

0 50 100 150 200

SCALE: 1"=100'



BENCHMARKS PROVIDED BY CITY OF McALLEN
TBM #1
SET ON CURB INLET WITHIN PARK'S PARKING LOT LIMITS , APPROXIMATELY 450' WEST OF THE INTERSECTION OF QUINCE ST. AND N. BICENTENNIAL BLVD. ELEVATION= 115.16 (NAVD88) N= 16605622.31 E= 1070065.94 (NAD83)
TBM #2
SET ON CURB INLET AT THE SOUTHWEST CORNER OF TAMARACK AVENUE AND N. BICENTENNIAL BLVD. ELEVATION= 115.80 (NAVD88) N= 16606328.72 E= 1070579.89 (NAD83)

CITY OF McALLEN
SOFTBALL FIELD FACILITIES
MUNICIPAL PARK
McALLEN, TEXAS

McALLEN Parks & Recreation

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5000 WEST MILITARY HWY. SUITE 100
McALLEN, TX 78503
TEL (956) 664-0285
FAX (956) 664-0282
TBPE FIRM #F-312

Revision		
No.	Date	Description
1	7-26-2018	Addendum No.1

STATE OF TEXAS
ROBERT L. SAENZ
82072
REGISTERED PROFESSIONAL ENGINEER

The Seal appearing on this document was authorized by Robert L. Saenz, P.E. Number 82072 on July 26, 2018. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The Record Copy of this drawing is on file at the offices of Halff Associates, Inc., 5000 W. Military Suite 100, McAllen, TX 78503. TBPE FIRM #F-312

Project No.:	33348.001
Issued:	July 2018
Drawn By:	FC
Checked By:	RM
Scale:	AS NOTED

Sheet Title

SUGGESTED EROSION CONTROL PLAN

C6.00

Sheet Number

Date: 7/25/2018 12:44:11 PM
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SYMBOLS LEGEND

X X'-XX"	X - DENOTES CEILING TYPE		EXHAUST AIR GRILLE
	X'-XX" - DENOTES CEILING HEIGHT		EXHAUST FAN, REF. MEP DRWGS
	1 X 4 SURFACE MOUNTED LIGHT FIXTURE, REF. ELECTRICAL		EXIT SIGN
	RECESSED CAN LIGHT, REF. ELECTRICAL		

CEILING TYPE

A		1/4" HARDIE SOFFIT PANEL CEILING, PAINTED
B		PRE-FINISHED METAL SOFFIT PANEL ON 1/2" DENS-GLASS SHEATHING BD.
C		OPEN TO STRUCTURE

FLOOR PLAN WALL LEGEND

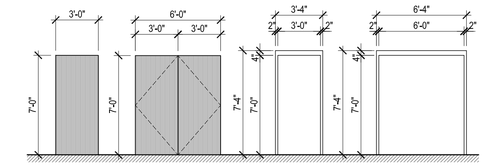
- REINFORCED CMU - SEE STRUCTURAL - FINISHED AS SCHEDULED - BULLNOSE AT ALL OUTSIDE CORNERS
- 8 — 8" CMU - CAST STONE WAINSCOT w/ CAST STONE CAP & 8" CMU SPLIT-FACE ABOVE ON EXTERIOR FACE. SEALED & PAINTED ON INTERIOR FACE.
- 8A — 8" CMU - CAST STONE WAINSCOT w/ CAST STONE CAP & 8" CMU SPLIT-FACE ABOVE ON EXTERIOR FACE.
- 8B — 8" CMU - SEALED & PAINTED ON BOTH SIDES
- 8C — 8" CMU - SEALED & PAINTED ONE SIDE ONLY
- 8D — 8" CMU - CAST STONE WAINSCOT w/ CAST STONE CAP & 8" CMU SPLIT-FACE ABOVE ON EXTERIOR FACE. 5/8" DENSARMOR GYP. BD. (T.F.T.& PTD.) ON Z-FURRING STRIPS & 1 1/2" THERMAX SHEATHING RIGID INSULATION BD. ON INTERIOR FACE. REF. WALL SECTION: 3 / A4.3 SIM.
- 8E — 8" CMU - 5/8" DENSARMOR GYP. BD. (T.F.T.& PTD.) ON Z-FURRING STRIPS & 1 1/2" THERMAX SHEATHING RIGID INSULATION BD. SEALED & PAINTED OTHER SIDE. REF. WALL SECTION: 3 / A4.3
- RANDOM PATTERN ASHLAR CAST STONE WAINSCOT

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS NORTH	WALLS EAST	WALLS WEST	WALLS SOUTH	CEILING FINISH	NOTES	ROOM NO.
101	CONCESSION	CONC	NONE	PTD	PTD	PTD	PTD	PTD		101
102	UMPIRES	CONC	NONE	PTD	PTD	PTD	PTD	PTD		102
103	ALCOVE	CONC	NONE	PTD	PTD	PTD	PTD	PTD		103
104	MEN	CONC	NONE	PTD	PTD	PTD	PTD	PTD		104
105	JANITOR	CONC	NONE	PTD	PTD	PTD	PTD	PTD		105
106	ALCOVE	CONC	NONE	PTD	PTD	PTD	PTD	PTD		106
107	WOMEN	CONC	NONE	PTD	PTD	PTD	PTD	PTD		107
108	ALCOVE	CONC	NONE	PTD	PTD	PTD	PTD	PTD		108
109	STORAGE	CONC	NONE	PTD	PTD	PTD	PTD	PTD		109
110	FAMILY TOILET	CONC	NONE	PTD	PTD	PTD	PTD	PTD		110
111	FAMILY TOILET	CONC	NONE	PTD	PTD	PTD	PTD	PTD		111
112	MECH. / ELEC.	CONC	NONE	PTD	PTD	PTD	PTD	PTD		112

ROOM FINISH NOTES

DOOR & FRAME TYPE



1 EXTERIOR HOLLOW METAL INSULATED, PAINTED

2 EXTERIOR HOLLOW METAL INSULATED, PAINTED

A EXTERIOR HOLLOW METAL FRAME, PAINTED

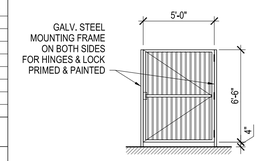
B EXTERIOR HOLLOW METAL FRAME, PAINTED

DOOR SCHEDULE

DOOR NO.	ROOM NAME	DOOR TYPE	DOOR LEAF	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME WIDTH	FRAME HEIGHT	FRAME MATERIAL	FRAME FINISH	HRDWR SET	KEYED NOTES	FIRE RATED MIN	DOOR NO.
101	CONCESSION	1	SINGLE	3'-0"	7'-0"	HM	PTD	A	3'-4"	7'-4"	HM	PTD				101
102	UMPIRES	1	SINGLE	3'-0"	7'-0"	HM	PTD	A	3'-4"	7'-4"	HM	PTD				102
103	JANITOR	1	SINGLE	3'-0"	7'-0"	HM	PTD	A	3'-4"	7'-4"	HM	PTD				103
104	STORAGE	1	SINGLE	3'-0"	7'-0"	HM	PTD	A	3'-4"	7'-4"	HM	PTD				104
105	FAMILY TOILET	1	SINGLE	3'-0"	7'-0"	HM	PTD	A	3'-4"	7'-4"	HM	PTD				105
106	FAMILY TOILET	1	SINGLE	3'-0"	7'-0"	HM	PTD	A	3'-4"	7'-4"	HM	PTD				106
107	MECH. / ELEC.	2	PAIR	3'-0"	7'-0"	HM	PTD	B	6'-4"	7'-4"	HM	PTD				107

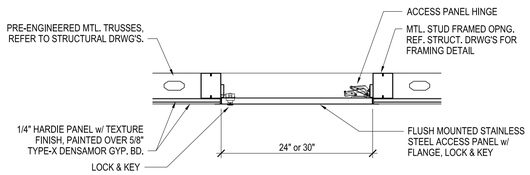
KEYED NOTES

1	ALL HOLLOW METAL DOORS AND FRAMES TO BE WELDED AND PAINTED. REF SPECS. GRIND ALL EXPOSED WELDS; SMOOTH PRIOR TO APPLYING FINAL FINSH.	5	REFER TO SPECIFICATION "DOOR HARDWARE" FOR DOOR HARDWARE
2	FIELD VERIFY SIZE OF ALL EXISTING OPENINGS PRIOR TO ORDERING FRAMES.	6	ALL DOORS SHALL HAVE DOOR STOPS
3	REFER TO WALL TYPES LEGEND AND SPECIFICTIONS FOR SPECIFIC CONSTRUCTION MATERIALS USED IN WALL CONSTRUCTION	7	FIELD VERIFY MASONRY OPENING HEIGHT - COORDINATE DOOR AND DOOR FRAME WITH FIELD CONDITIONS - NOTIFY ARCHITECT OF ANY MODIFICATIONS DUE TO EXISTING CONDITIONS
4	ROUGH OPENING OF FRAME SHALL BE 4" MIN FROM ADJACENT WALL U.N.O.		



SWING GATE
GALV. STL. GATE w/ 2" SQ. FRAME & 1" SQ. STL. PICKETS SPACED @ 4" O.C.

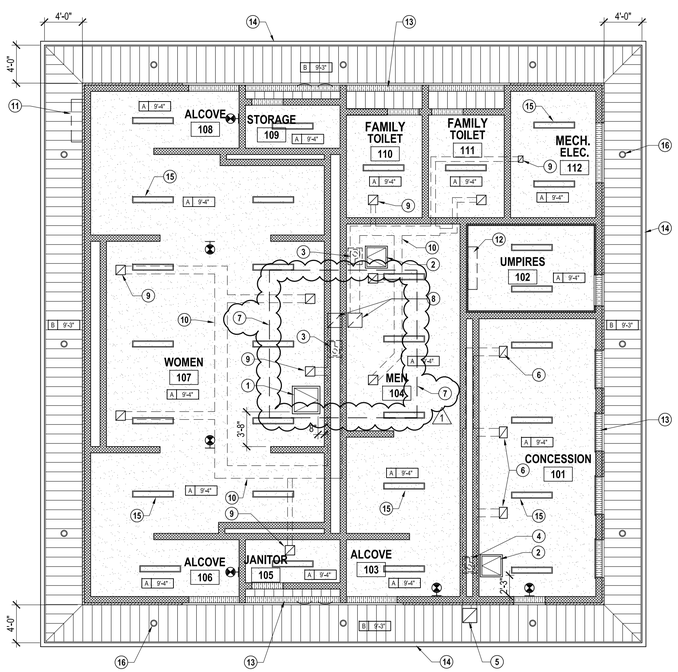
VANDAL PROOF GATE FOR RESTROOM ENTRANCE



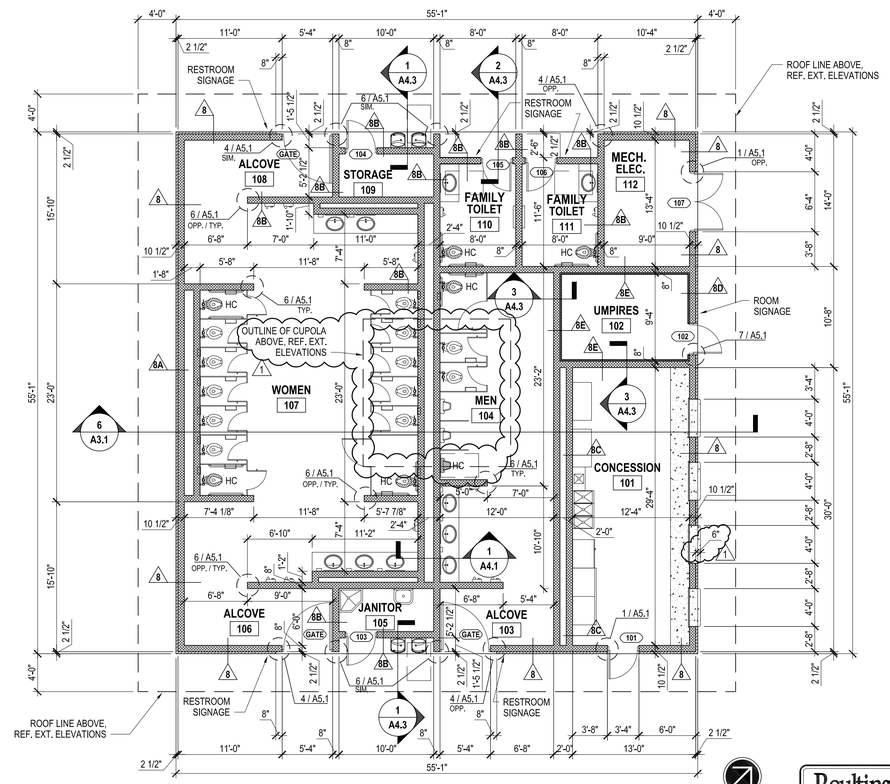
ATTIC ACCESS PANEL - SECTION (3)
SCALE: 1" = 1'-0"

REFLECTED CEILING PLAN KEY NOTES

1. 30" x 30" S.S. ACCESS PANEL w/ FLANGE & LOCK, REF. SECTION: 3 / A2.1
2. 24" x 24" S.S. ACCESS PANEL w/ FLANGE & LOCK, REF. SECTION: 3 / A2.1
3. EXHAUST FAN IN ATTIC SPACE, REF. MEP DRWG'S
4. SUPPLY FAN IN ATTIC SPACE, REF. MEP DRWG'S
5. SOFFIT MOUNTED AIR INTAKE GRILLE, REF. MEP DRWG'S
6. SURFACE MOUNTED SUPPLY AIR DIFFUSER, REF. MEP DRWG'S
7. OUTLINE CUPOLA WALL ABOVE, REF. EXTERIOR ELEVATIONS
8. EXHAUST DUCT UP TOWARDS CUPOLA ABOVE, REF. MEP DRWG'S
9. SURFACE MOUNTED RETURN GRILLE, REF. MEP DRWG'S
10. EXHAUST DUCT ROUTE IN ATTIC, REF. MEP DRWG'S
11. A/C CONDENSING UNIT WALL MOUNTED BELOW SOFFIT, REF. MEP DRWG'S
12. A/C SPLIT-SYSTEM UNIT WALL MOUNTED BELOW CEILING, REF. MEP DRWG'S
13. CMU HEADER AT OPENING, PAINTED
14. PRE-FINISHED METAL GUTTER, REF. WALL SECTIONS
15. SURFACE MOUNTED LIGHT FIXTURE, REF. ELECTRICAL LIGHTING PLAN
16. RECESS CAN LIGHT FIXTURE, REF. ELECTRICAL LIGHTING PLAN



REFLECTED CEILING PLAN (2)
SCALE: 1/8" = 1'-0"



FLOOR PLAN (1)
SCALE: 1/8" = 1'-0"

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TBPE FIRM #F-312

Revision No.	Date	Description
1	7 - 26 - 18	ADDED CUPOLA ABOVE

REGISTERED ARCHITECT HUBERT S. SIMPSON 8354 TEXAS
07-11-2018

100% CONSTRUCTION DOCUMENTS

Project No.:	33348.001
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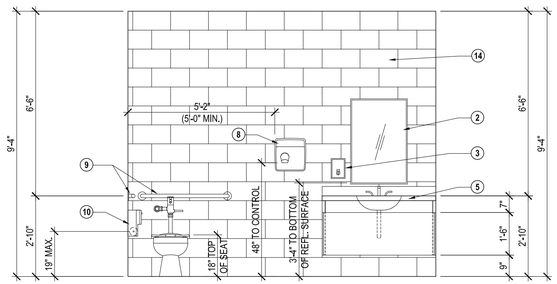
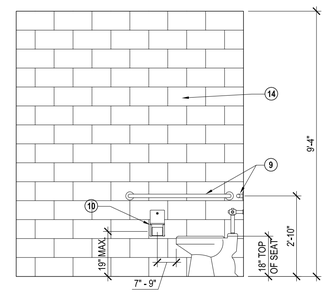
Checked By:	B.S.
Scale:	AS SHOWN
Sheet Title	FLOOR PLAN & REFLECTED CLG. PLAN
Sheet Number	A2.1



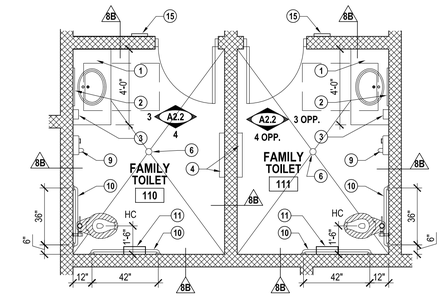
FAMILY TOILETS - 110 & 111 (OPP.) INTERIOR ELEVATION (4)

SCALE: 3/8" = 1'-0"



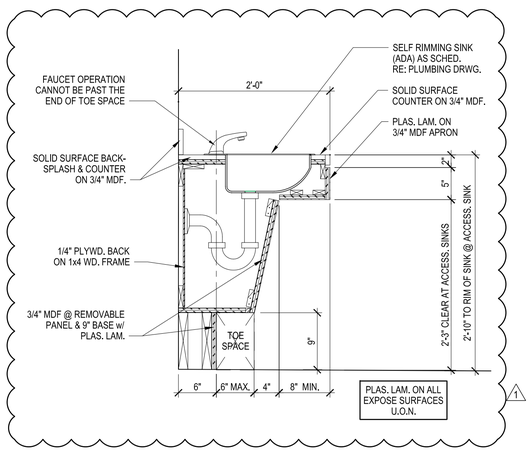
FAMILY TOILETS - 110 & 111 (OPP.) INTERIOR ELEVATION (3)

SCALE: 3/8" = 1'-0"



ENLARGED FAMILY TOILET PLAN (2)

SCALE: 1/4" = 1'-0"



TYP. MILLWORK COUNTER @ RESTROOMS (5)

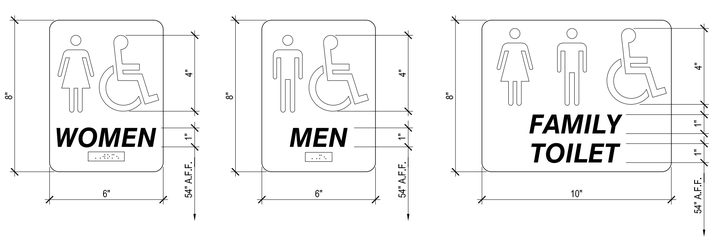
SCALE: 1" = 1'-0"

FLOOR PLAN KEY NOTES

1	SOLID SURFACE COUNTERTOP, NOSING & 4" BACK-SPLASH AS SPECIFIED REF. TYP. MILLWORK SECTION: 5 / A2.2
2	WALL-MOUNTED MIRROR - BOBRICK B-165 2436 OR EQUAL - PROVIDE BOBRICK B-293 2436 AT HC DESIGNATED LAVATORY
3	WALL-MOUNTED SOAP DISPENSER - BOBRICK B-40 OR EQUAL
4	WALL-MOUNTED BABY CHANGING STATION - KOALA KARE KB101-01 OR EQUAL
5	SELF RIMMING HAND SINK, REFER TO MEP
6	FLOOR DRAIN, REFER TO MEP
7	OVERHEAD BRACED SOLID PLASTIC TOILET PARTITIONS - BOBRICK SIERRA SERIES OR EQUAL
8	WALL HUNG SOLID PLASTIC URINAL SCREEN - BOBRICK SIERRA SERIES OR EQUAL
9	ADA COMPLIANT WALL-MOUNTED HAND DRYER - BOBRICK B-7128 OR EQUAL
10	ADA COMPLIANT GRAB BARS - BOBRICK B-6806 x 36 OR EQUAL; BOBRICK B-6806 x 42 OR EQUAL
11	TOILET PAPER DISPENSER - BOBRICK B-2888 OR EQUAL
12	RECESSED SANITARY NAPKIN DISPOSAL - BOBRICK B-353 OR EQUAL
13	HAT AND COAT HOOK - BOBRICK B-682 OR EQUAL - MOUNT AT 48" A.F.F. MAX
14	ALL INTERIOR SMOOTH-FACED CMU WALLS TO BE SEALED & PAINTED
15	ADA COMPLIANCE RESTROOM SIGNAGE
16	30" x 30" STAINLESS STEEL ATTIC ACCESS PANEL w/ FLANGE & LOCK, REF. SECTION: 3 / A2.1
17	24" x 24" STAINLESS STEEL ATTIC ACCESS PANEL w/ FLANGE & LOCK, REF. SECTION: 3 / A2.1

FLOOR PLAN WALL LEGEND

- REINFORCED CMU - SEE STRUCTURAL - FINISHED AS SCHEDULED - BULLNOSE AT ALL OUTSIDE CORNERS
- 8 — 8" CMU - CAST STONE WAINSCOT w/ CAST STONE CAP & 8" CMU SPLIT-FACE ABOVE ON EXTERIOR FACE. SEALED & PAINTED ON INTERIOR FACE.
- 8A — 8" CMU - CAST STONE WAINSCOT w/ CAST STONE CAP & 8" CMU SPLIT-FACE ABOVE ON EXTERIOR FACE.
- 8B — 8" CMU - SEALED & PAINTED ON BOTH SIDES
- 8C — 8" CMU - SEALED & PAINTED ONE SIDE ONLY
- 8D — 8" CMU - CAST STONE WAINSCOT w/ CAST STONE CAP & 8" CMU SPLIT-FACE ABOVE ON EXTERIOR FACE. 5/8" DENSARMOR GYP. BD. (T.F.T.& PTD.) ON Z-FURRING STRIPS & 1 1/2" THERMAX SHEATHING RIGID INSULATION BD. ON INTERIOR FACE. REF. WALL SECTION: 3 / A4.3 SIM.
- 8E — 8" CMU - 5/8" DENSARMOR GYP. BD. (T.F.T.& PTD.) ON Z-FURRING STRIPS & 1 1/2" THERMAX SHEATHING RIGID INSULATION BD. SEALED & PAINTED OTHER SIDE. REF. WALL SECTION: 3 / A4.3
- RANDOM PATTERN ASHLAR CAST STONE WAINSCOT



ADA COMPLIANCE RESTROOM SIGNAGE (6)

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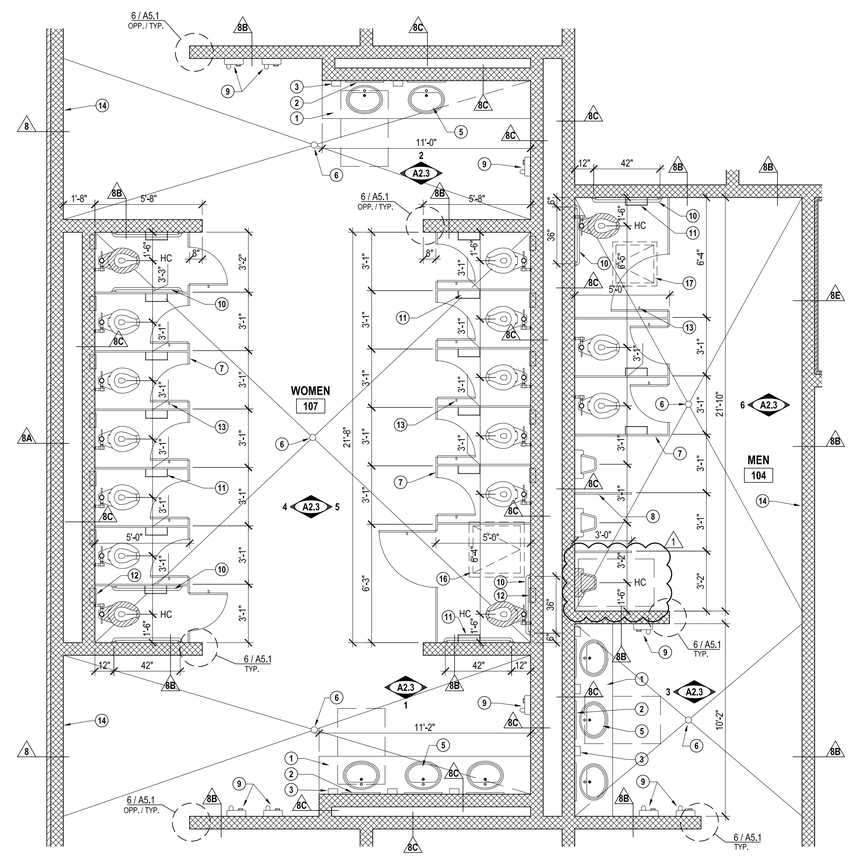

ENLARGED RESTROOM PLAN (1)

SCALE: 1/4" = 1'-0"

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TBPE FIRM #F-312

Revision No.	Date	Description
1	7 - 26 - 18	ADDED ADA NOTES & DIMENSIONS

REGISTERED ARCHITECT ROBERT S. SIMPSON 8355 TEXAS
07-11-2018

100% CONSTRUCTION DOCUMENTS

Project No.:	33348.001
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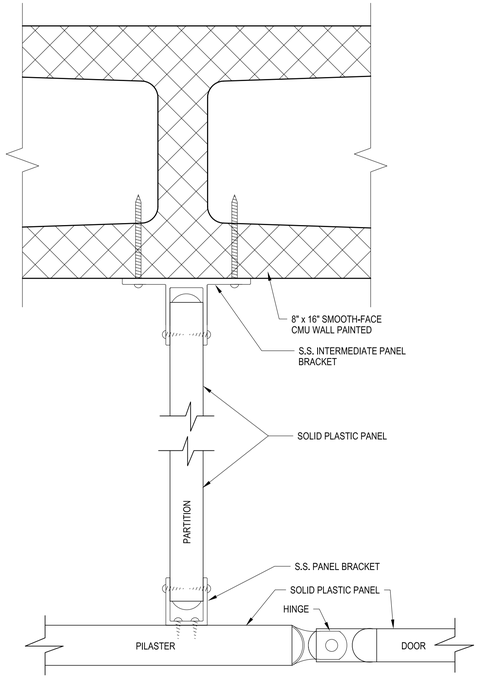
Scale:	AS SHOWN
Sheet Title	ENLARGED PLANS
Sheet Number	A2.2



TOILET PARTITION - PLAN DETAIL (7)
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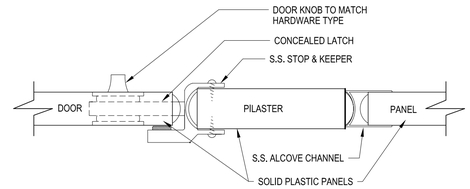

TOILET PARTITION - PLAN DETAIL (8)
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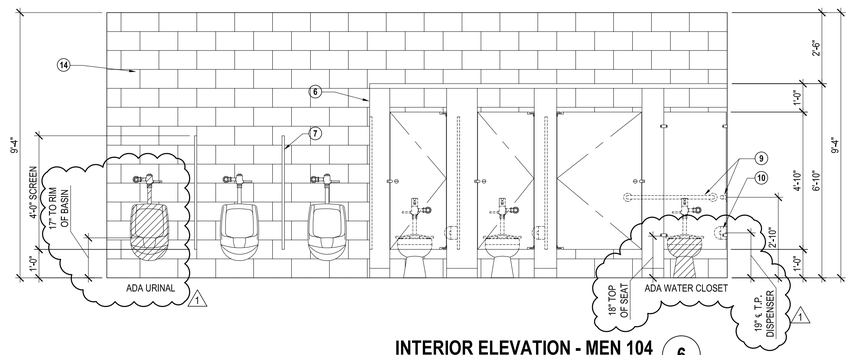
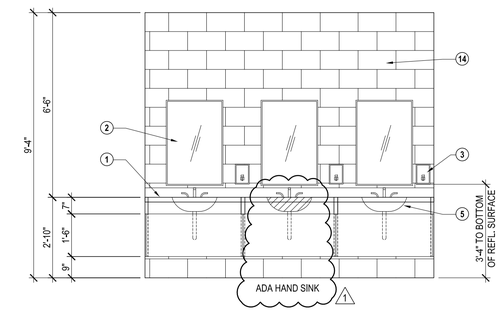
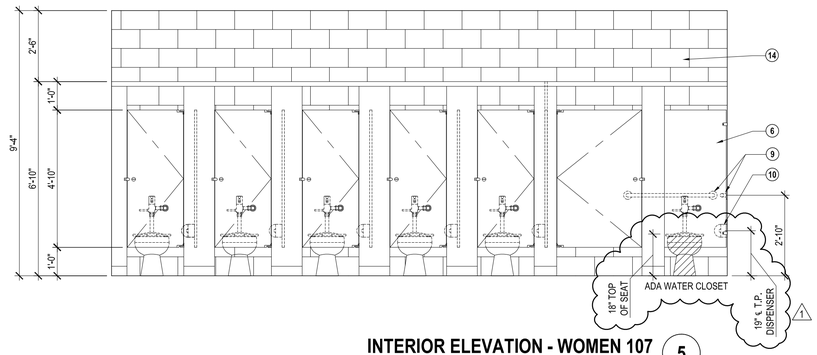


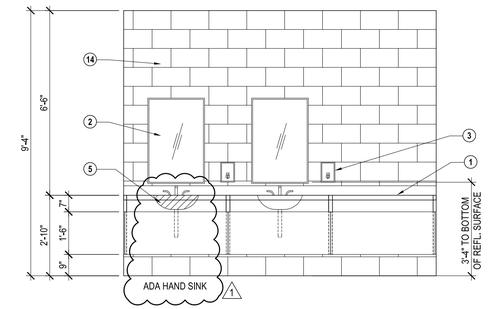
INTERIOR ELEVATION - MEN 104 (6)
SCALE: 3/8" = 1'-0"



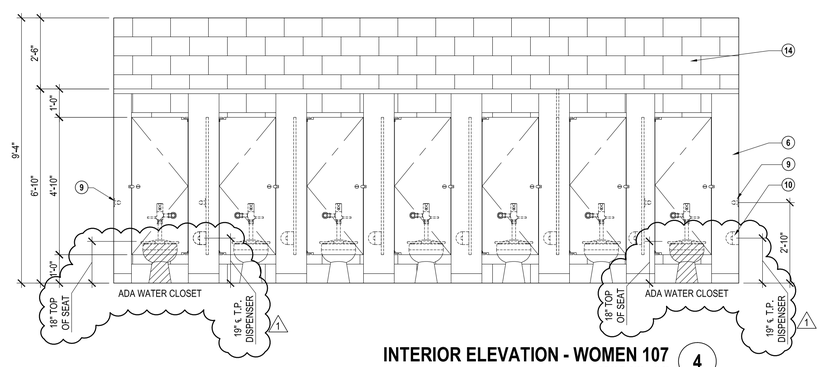
INTERIOR ELEVATION - MEN 104 (3)
SCALE: 3/8" = 1'-0"



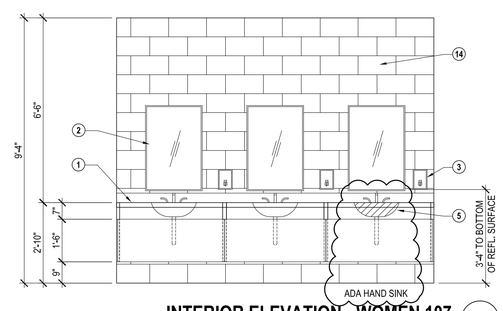
INTERIOR ELEVATION - WOMEN 107 (5)
SCALE: 3/8" = 1'-0"



INTERIOR ELEVATION - WOMEN 107 (2)
SCALE: 3/8" = 1'-0"



INTERIOR ELEVATION - WOMEN 107 (4)
SCALE: 3/8" = 1'-0"



INTERIOR ELEVATION - WOMEN 107 (1)
SCALE: 3/8" = 1'-0"

FLOOR PLAN KEY NOTES

1	SOLID SURFACE COUNTERTOP, NOSING & 4" BACK-SPLASH AS SPECIFIED REF. TYP. MILLWORK SECTION: 5 / A2.2
2	WALL-MOUNTED MIRROR - BOBRICK B-165 2436 OR EQUAL - PROVIDE BOBRICK B-293 2436 AT HC DESIGNATED LAVATORY
3	WALL-MOUNTED SOAP DISPENSER - BOBRICK B-40 OR EQUAL
4	WALL-MOUNTED BABY CHANGING STATION - KOALA KARE KB101-01 OR EQUAL
5	SELF RIMMING HAND SINK, REFER TO MEP
6	FLOOR DRAIN, REFER TO MEP
7	OVERHEAD BRACED SOLID PLASTIC TOILET PARTITIONS - BOBRICK SIERRA SERIES OR EQUAL
8	WALL HUNG SOLID PLASTIC URINAL SCREEN - BOBRICK SIERRA SERIES OR EQUAL
9	ADA COMPLIANT WALL-MOUNTED HAND DRYER - BOBRICK B-7128 OR EQUAL
10	ADA COMPLIANT GRAB BARS - BOBRICK B-6806 x 36 OR EQUAL; BOBRICK B-6806 x 42 OR EQUAL
11	TOILET PAPER DISPENSER - BOBRICK B-2888 OR EQUAL
12	RECESSED SANITARY NAPKIN DISPOSAL - BOBRICK B-353 OR EQUAL
13	HAT AND COAT HOOK - BOBRICK B-682 OR EQUAL - MOUNT AT 48" A.F.F. MAX
14	ALL INTERIOR SMOOTH-FACE CMU WALLS TO BE SEALED & PAINTED
15	ADA COMPLIANCE RESTROOM SIGNAGE
16	30" x 30" STAINLESS STEEL ATTIC ACCESS PANEL w/ FLANGE & LOCK, REF. SECTION: 3 / A2.1

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McALLEN Parks & Recreation

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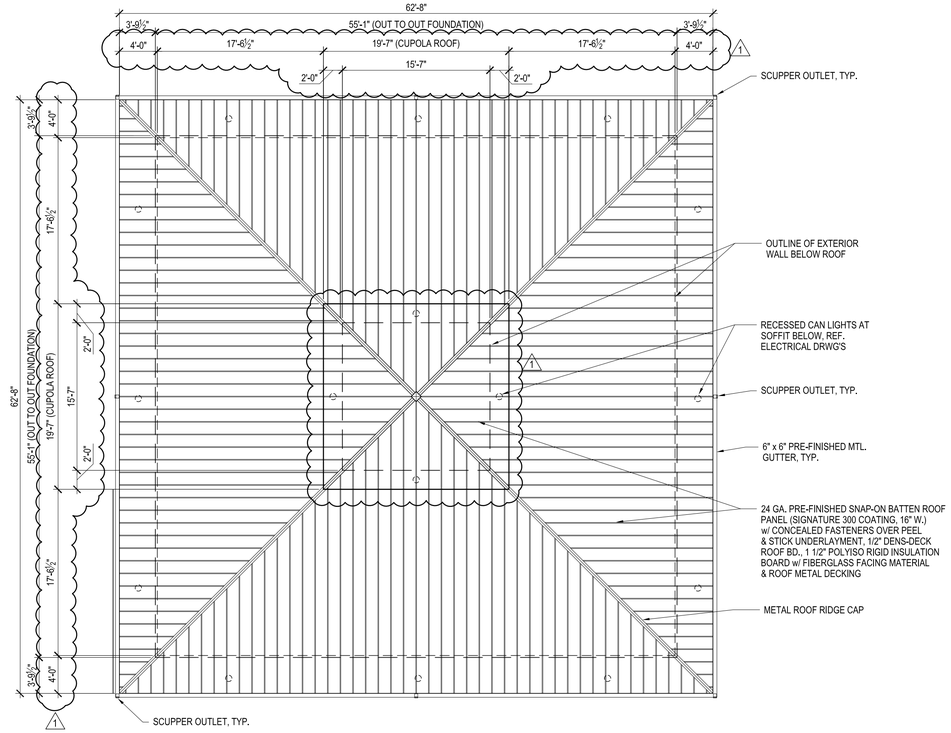
5000 WEST MILITARY HWY, SUITE 100
McALLEN, TX 78503
TEL (956) 682-0286
FAX (956) 684-0282
TBPE FIRM #F-312

Revision		
No.	Date	Description
1	7 - 26 - 18	RELOCATED ADA URINAL, ADDED ADA NOTE & DIMENSIONS

REGISTERED ARCHITECT ROBERT S. SIMPSON 8355 STATE OF TEXAS
07-11-2018

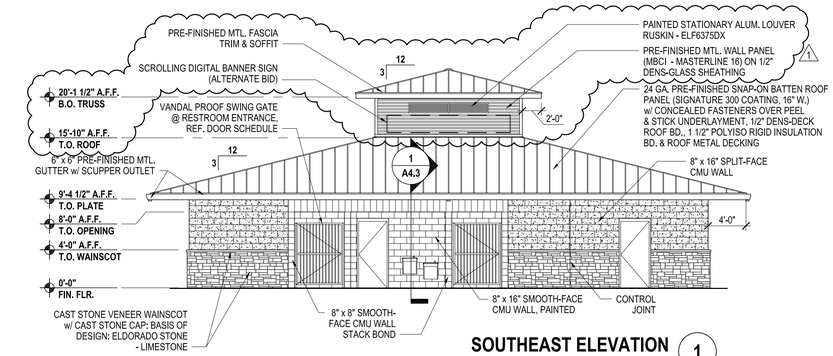
100% CONSTRUCTION DOCUMENTS

Project No.:	33348.001
Issued:	07/11/2018
Drawn By:	G.Q.
Checked By:	B.S.
Scale:	AS SHOWN
Sheet Title	INTERIOR ELEVATIONS
Sheet Number	A2.3



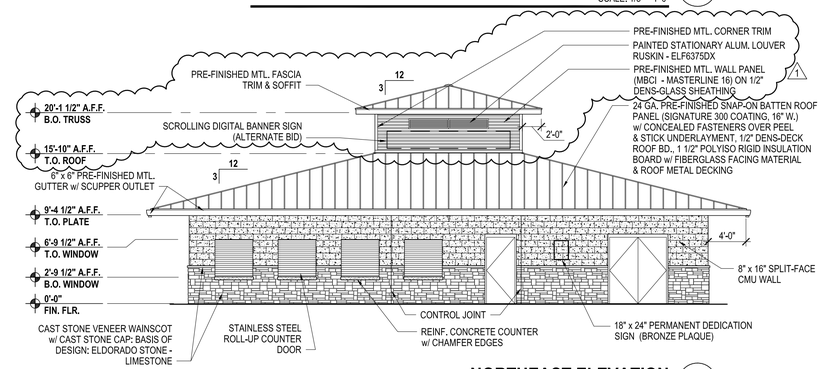
ROOF PLAN (5)

SCALE: 1/8" = 1'-0"



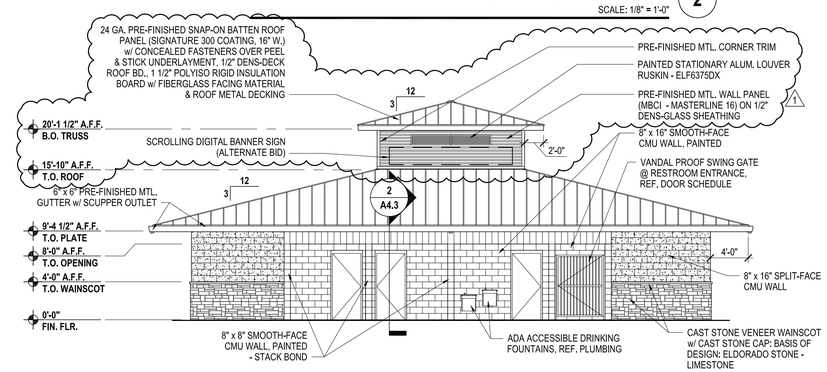
SOUTHEAST ELEVATION (1)

SCALE: 1/8" = 1'-0"



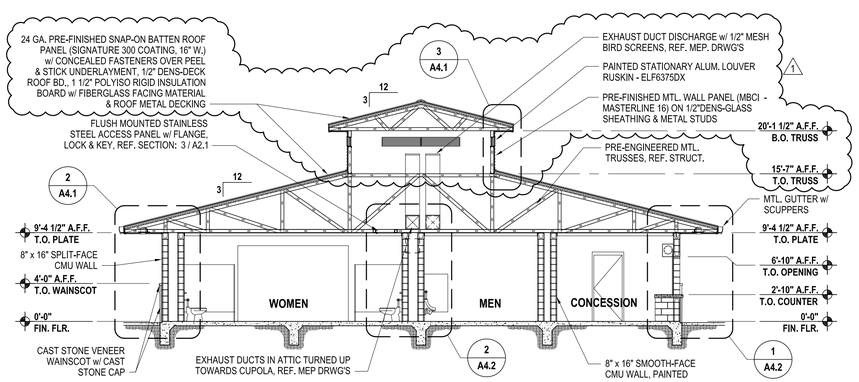
NORTHEAST ELEVATION (2)

SCALE: 1/8" = 1'-0"



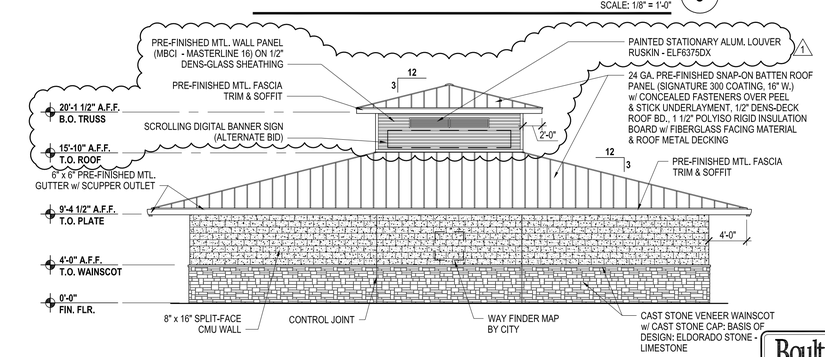
NORTHWEST ELEVATION (3)

SCALE: 1/8" = 1'-0"



BUILDING SECTION (6)

SCALE: 1/8" = 1'-0"



SOUTHWEST ELEVATION (4)

SCALE: 1/8" = 1'-0"

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TBPE FIRM #F-312

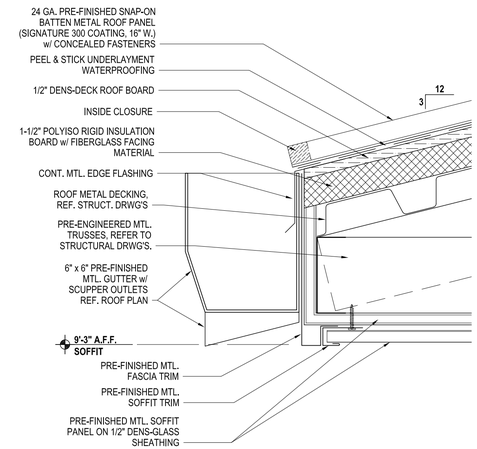
Revision No.	Date	Description
1	7 - 26 - 18	ADDED CUPOLA & MATERIAL CALL OUT

REGISTERED ARCHITECT ROBERT S. SIMPSON 8355-0 TEXAS
07-11-2018

100% CONSTRUCTION DOCUMENTS

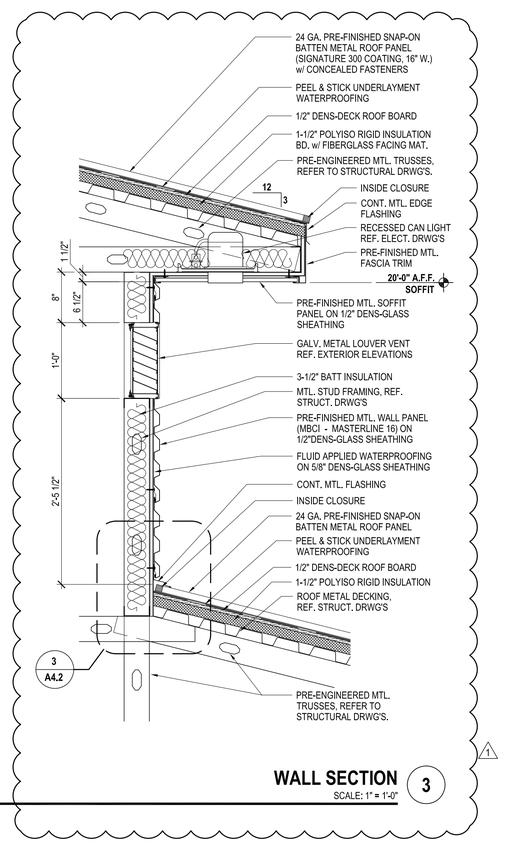
Project No.:	33348.001
Issued:	07/11/2018
Drawn By:	G.Q.
Checked By:	B.S.
Scale:	AS SHOWN
Sheet Title	EXT. ELEVATIONS & ROOF PLAN

A3.1
Sheet Number



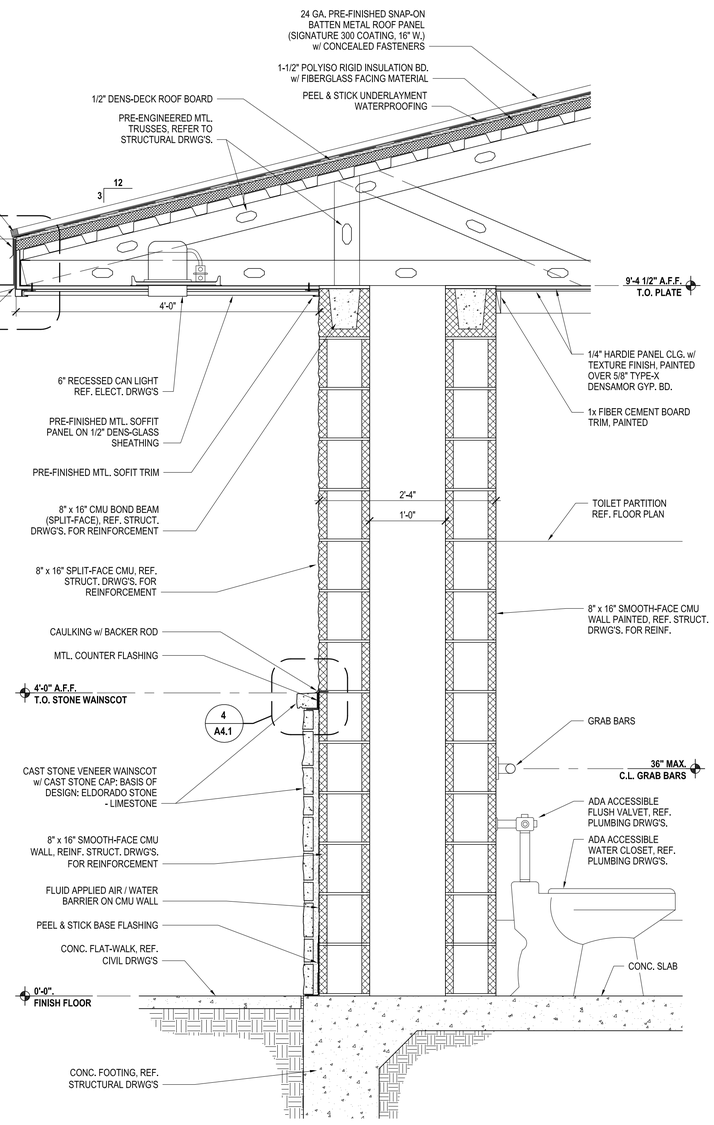
GUTTER DETAIL 5

SCALE: 3" = 1'-0"



WALL SECTION 3

SCALE: 1" = 1'-0"



WALL SECTION 2

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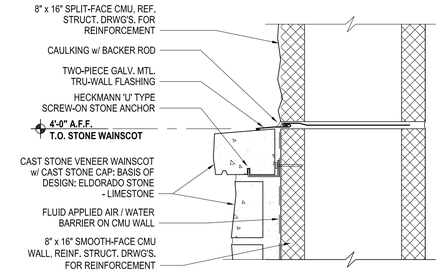
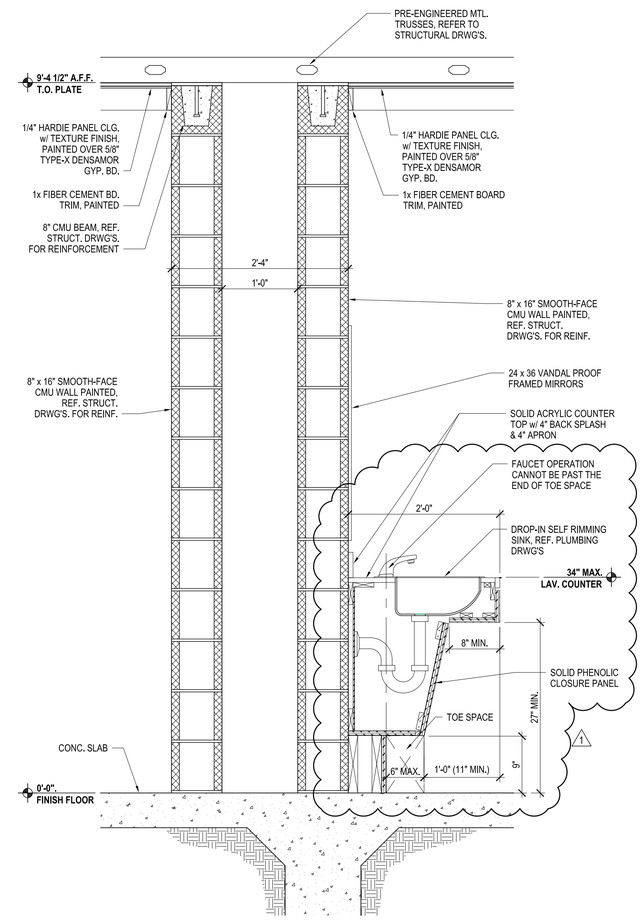


WALL DETAIL 4

SCALE: 3" = 1'-0"



WALL SECTION 1

SCALE: 1" = 1'-0"

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McALLEN, TX 78503
TEL (956) 682-0286
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TBPE FIRM #F-312

Revision		
No.	Date	Description
1	7 - 26 - 18	ADDED WALL SECTION @ CUPOLA
		ADDED ADA NOTES & DIMENSIONS

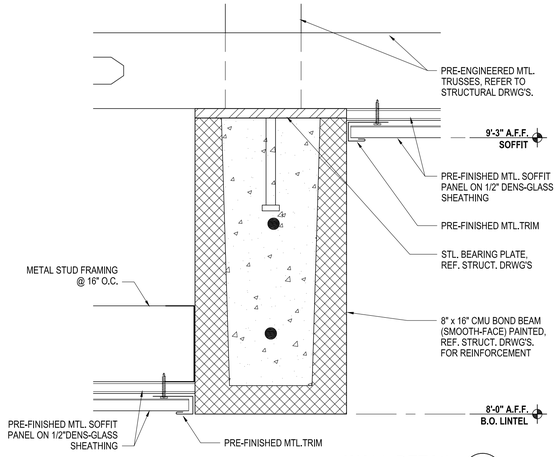
REGISTERED ARCHITECT ROBERT S. SIMPSON 8355 TEXAS
07-11-2018

100% CONSTRUCTION DOCUMENTS

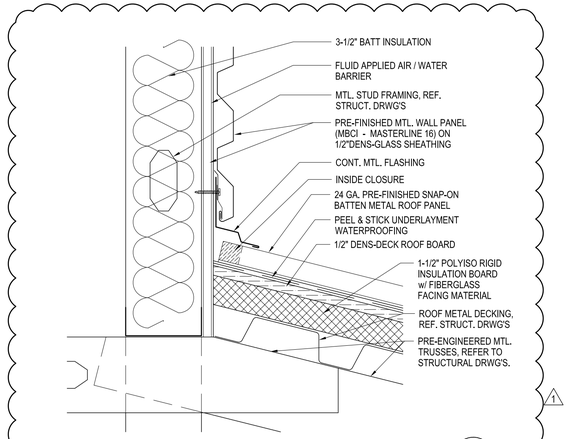
Project No.:	33348.001
Issued:	07/11/2018
Drawn By:	G.Q.
Checked By:	B.S.
Scale:	AS SHOWN
Sheet Title	WALL SECTIONS

A4.1

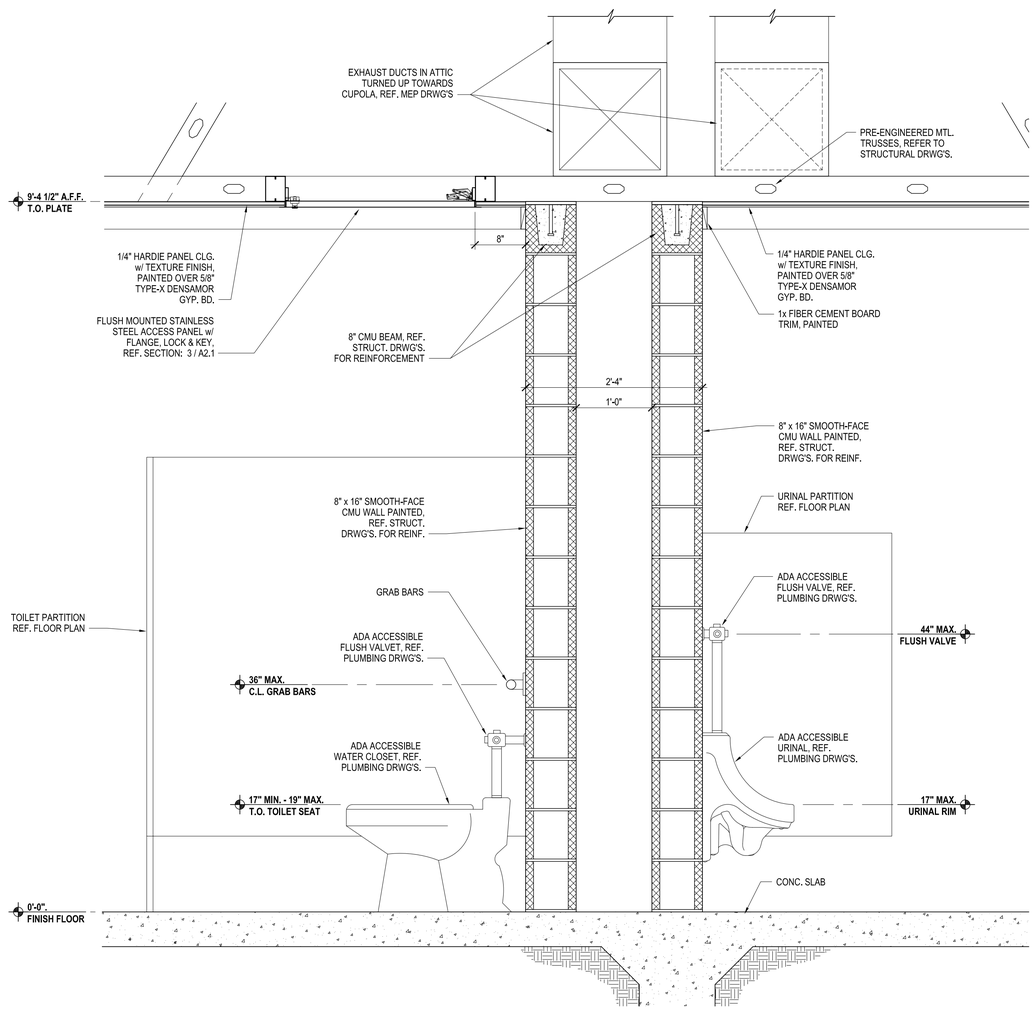
Sheet Number



WALL DETAIL 4
SCALE: 3" = 1'-0"



WALL DETAIL 3
SCALE: 3" = 1'-0"



WALL SECTION 2
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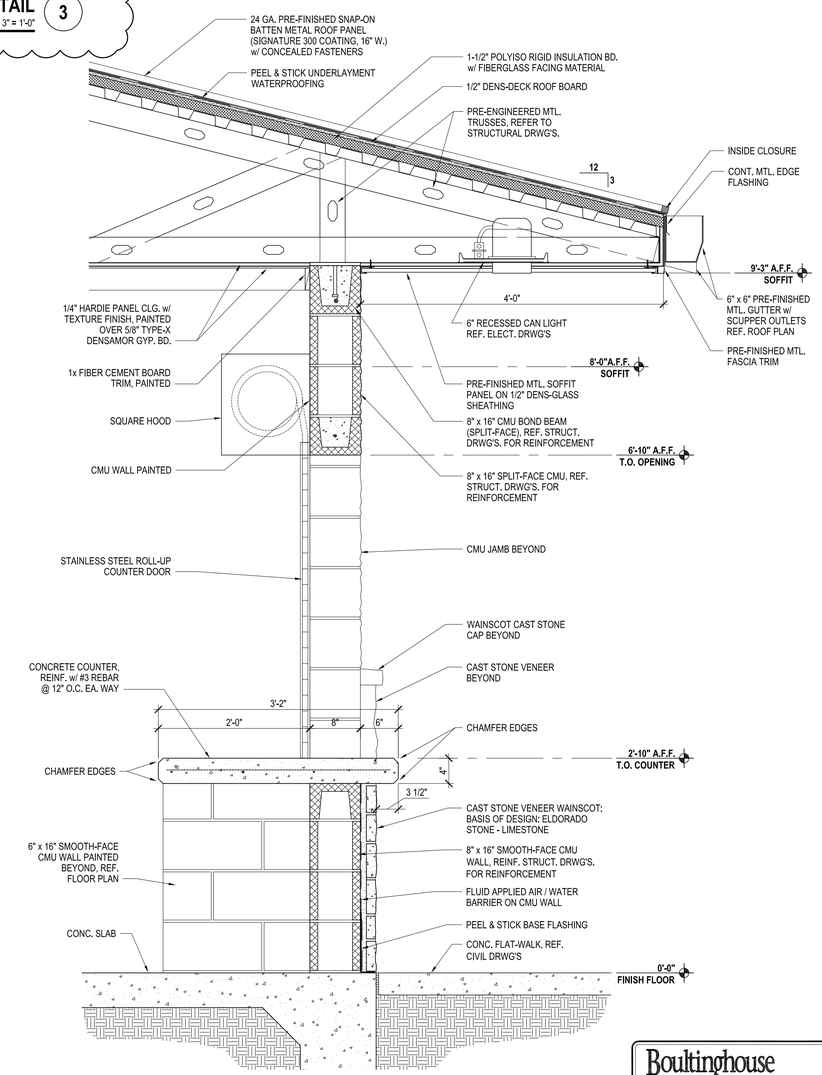

WALL SECTION 1
SCALE: 1" = 1'-0"

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TBPE FIRM #F-312

Revision		
No.	Date	Description
1	7 - 26 - 18	ADDED WALL DETAIL @ CUPOLA

REGISTERED ARCHITECT ROBERT S. SIMPSON 8355 TEXAS
07-11-2018

100% CONSTRUCTION DOCUMENTS

Project No.:	33348.001
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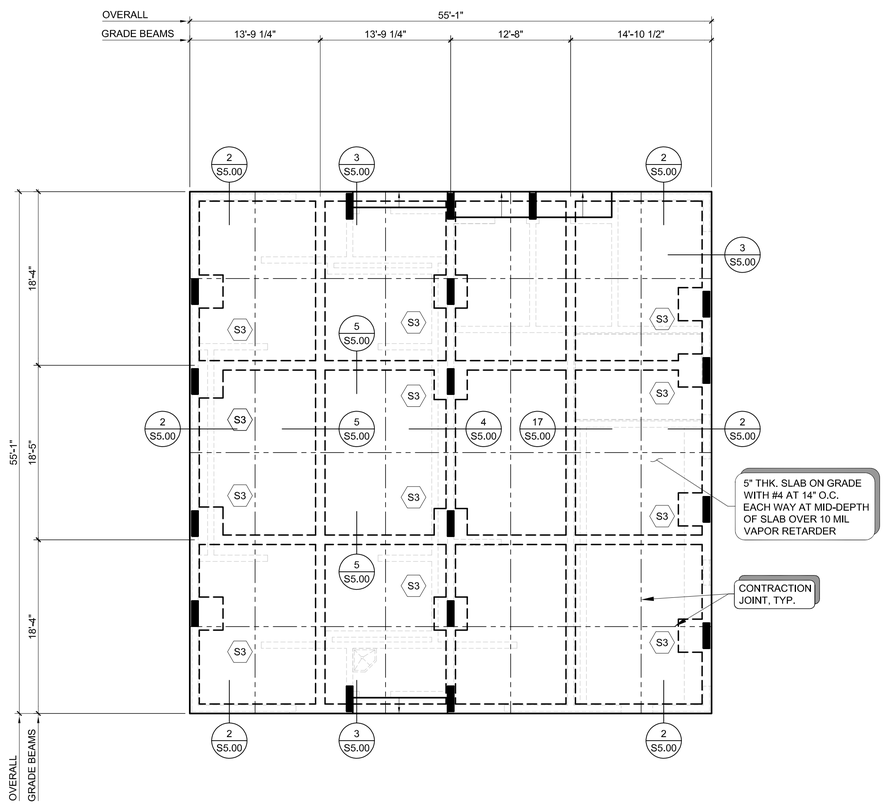
Drawn By:	G.Q.
Checked By:	B.S.
Scale:	AS SHOWN

Sheet Title
WALL SECTIONS

A4.2
Sheet Number

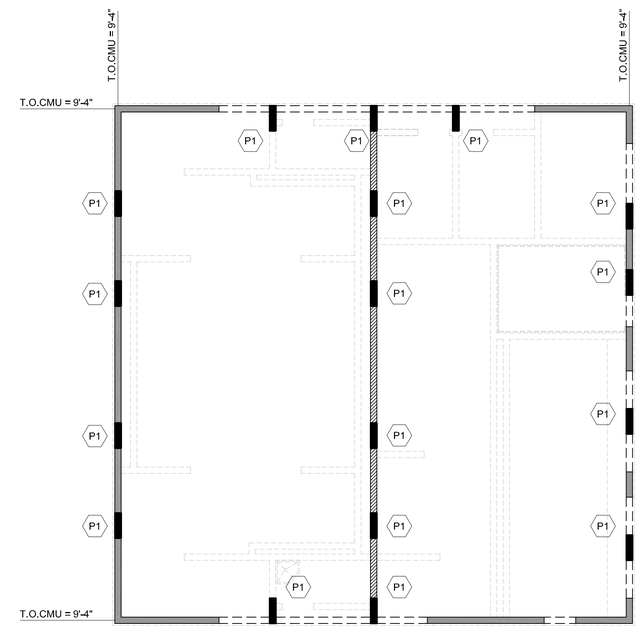


FOUNDATION NOTES:

1. CONTRACTOR TO VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE COMMENCING WORK.
2. CONTRACTOR TO VERIFY LOCATION OF ANY/ALL DROPS AND DRAINS IN SLAB WITH ARCHITECTURAL DRAWINGS.
3. CONTRACTOR TO VERIFY REQUIRED F.F.E. WITH CIVIL ENGINEERING DRAWINGS.
4. REFER TO FOOTING SCHEDULE FOR FOOTING SIZE AND REINFORCEMENT, SEE DETAIL 8/S2.00.
5. FOR THICKENED SLAB UNDERNEATH ALL CMU WALLS SEE 9/S2.00.

FOUNDATION PLAN

SCALE: 1/8"=1'-0"



CMU WALL LAYOUT NOTES:

1. IF ANY DISCREPANCIES ARE FOUND BETWEEN THESE DRAWINGS AND THE ARCHITECTURAL DRAWINGS THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER BEFORE COMMENCING CONSTRUCTION.
2. FOR TYPICAL CMU WALL CONSTRUCTION SEE SHEET S2.01
3. INDICATES EXTERIOR 8" CMU WALL WITH #5 (V) AT 48" O.C. AND #5 (H) AT 8'-0" O.C., U.N.O.
4. INDICATES INTERIOR 8" LOAD BEARING CMU WALL WITH #5 (V) AT 48" O.C. AND #5 (H) AT 8'-0" O.C., U.N.O.
5. INDICATES LINTEL, SEE DETAIL 7/S2.01
6. ALL CMU WALLS ARE NOT HATCHED REFER TO GENERAL NOTES FOR REINFORCEMENT.
7. FOR SPECIAL INSPECTION REQUIREMENTS SEE GENERAL NOTES.
8. ALL TOP OF WALLS FROM FINISH FLOOR ELEVATION 0'-0".
9. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION, LENGTH, AND HEIGHT OF ALL OPENINGS IN CMU WALLS.
10. FOR CONTROL JOINT LOCATIONS, SEE ARCHITECTURAL DRAWINGS.
11. PROVIDE CMU LINTEL OVER ALL MECHANICAL SYSTEM PENETRATIONS IN CMU WALL. COORDINATE WITH MEP DRAWINGS FOR ALL LOCATIONS.
12. 8" CMU WALL IS A NOMINAL DIMENSION, ACTUAL WIDTH IS 7 5/8".
13. P1 INDICATES PILASTER P1, SEE DETAIL 10/S2.01

CMU WALL LAYOUT PLAN

SCALE: 1/8"=1'-0"

CHANIN ENGINEERING, LLC
TBPE FIRM REG. NUMBER F-9369
PH: (956) 687-9421
FAX: (956) 687-3211
400 Nolana, Suite H2
McAllen, Texas 78504
www.chaninengineering.com

CITY OF McALLEN
SOFTBALL FIELD FACILITIES
MUNICIPAL PARK
McALLEN, TEXAS

HALFF
14800 ST. MARY'S LANE, SUITE 160
HOUSTON, TEXAS 77079-2943
TEL (281) 496-4200
FAX (281) 310-5259

Revision		
No.	Date	Description
1	07-26-18	ADDENDUM #1

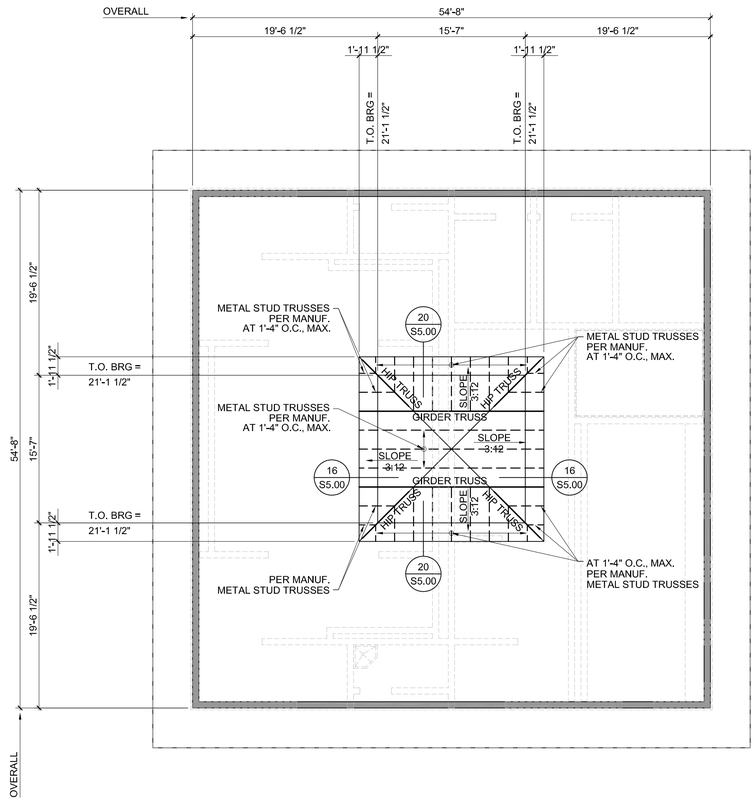
STATE OF TEXAS
MIGUEL CHANIN
93127
LICENSED
PROFESSIONAL ENGINEER
7-11-18

100% CONSTRUCTION DOCUMENTS

Project No.:	17325
Issued:	07/11/2018
Drawn By:	LR
Checked By:	MC
Scale:	AS SHOWN

Sheet Title
FOUNDATION/ CMU WALL PLANS

1 S3.00
Sheet Number

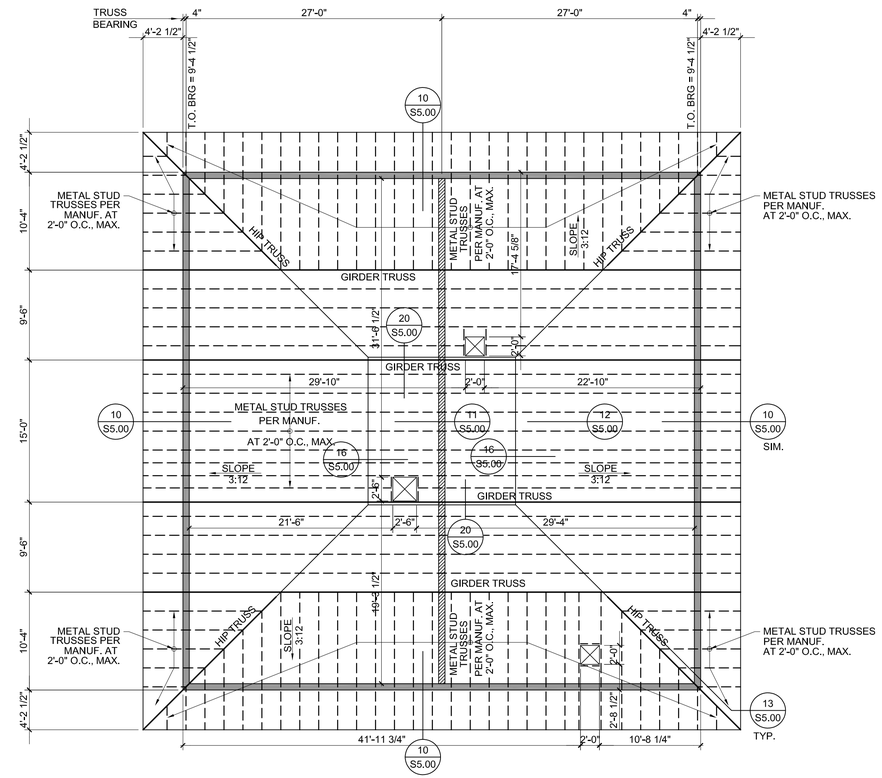


FRAMING NOTES:

1. CONTRACTOR TO VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE COMMENCING WORK.
2. REFER TO ARCHITECTURAL DRAWINGS FOR ANY ADDITIONAL DIMENSIONS.
3. REFER TO ARCH'L PLANS FOR ROOF OVERHANG DIMENSION.
4. METAL STUD TRUSSES MANUFACTURER TO PROVIDE ADEQUATE BRIDGING FOR FOR TRUSSES.
5. CONTRACTOR TO COORDINATE ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SUPPORTED BY THE STRUCTURE WITH THE STRUCTURE MANUFACTURER.
6. CONTRACTOR TO COORDINATE EXACT LOCATION AND SIZE OF ANY AND ALL ROOF HATCHES WITH ARCH'L DRAWINGS.
7. 8" CMU WALL IS A NOMINAL DIMENSION, ACTUAL WIDTH IS 7 5/8".
8. REFER TO M.E.P. DRAWINGS FOR ANY HOUSEKEEPING PADS AT MECHANICAL ROOMS.

HIGH ROOF FRAMING PLAN

SCALE: 1/8"=1'-0"



FRAMING NOTES:

1. CONTRACTOR TO VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE COMMENCING WORK.
2. REFER TO ARCHITECTURAL DRAWINGS FOR ANY ADDITIONAL DIMENSIONS.
3. REFER TO ARCH'L PLANS FOR ROOF OVERHANG DIMENSION.
4. METAL STUD TRUSSES MANUFACTURER TO PROVIDE ADEQUATE BRIDGING FOR FOR TRUSSES.
5. CONTRACTOR TO COORDINATE ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SUPPORTED BY THE STRUCTURE WITH THE STRUCTURE MANUFACTURER.
6. CONTRACTOR TO COORDINATE EXACT LOCATION AND SIZE OF ANY AND ALL ROOF HATCHES WITH ARCH'L DRAWINGS.
7. 8" CMU WALL IS A NOMINAL DIMENSION, ACTUAL WIDTH IS 7 5/8".
8. REFER TO M.E.P. DRAWINGS FOR ANY HOUSEKEEPING PADS AT MECHANICAL ROOMS.

ROOF FRAMING PLAN

SCALE: 1/8"=1'-0"

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Revision No.	Date	Description
1	07-26-18	ADDENDUM #1

STATE OF TEXAS
MIGUEL CHANIN
93127
LICENSED
PROFESSIONAL ENGINEER
7-11-18

100% CONSTRUCTION DOCUMENTS

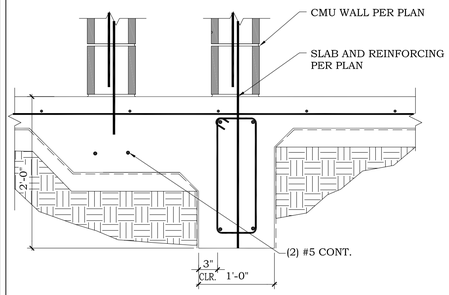
Project No.:	17325
Issued:	07/11/2018
Drawn By:	LR
Checked By:	MC
Scale:	AS SHOWN

Sheet Title

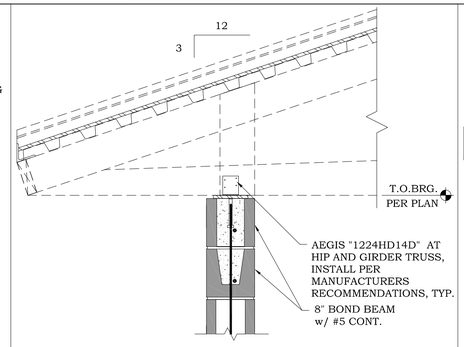
FRAMING PLANS

1 S4.00

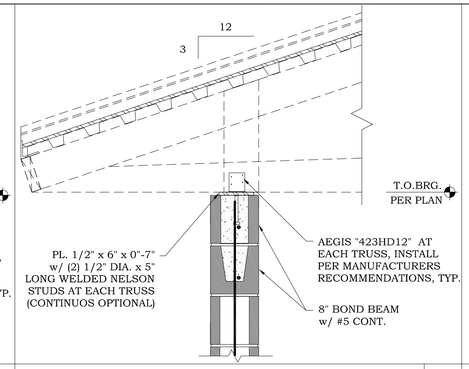
Sheet Number



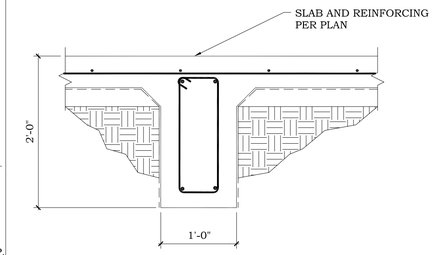
INTERIOR FOOTING 17



METAL STUD GIRDER TRUSS TO CMU WALL 13

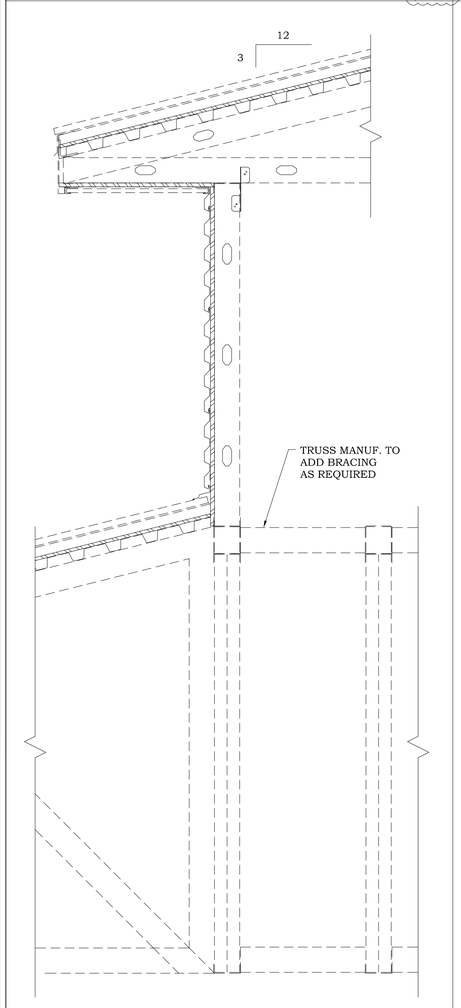


METAL STUD TRUSS TO CMU WALL 9

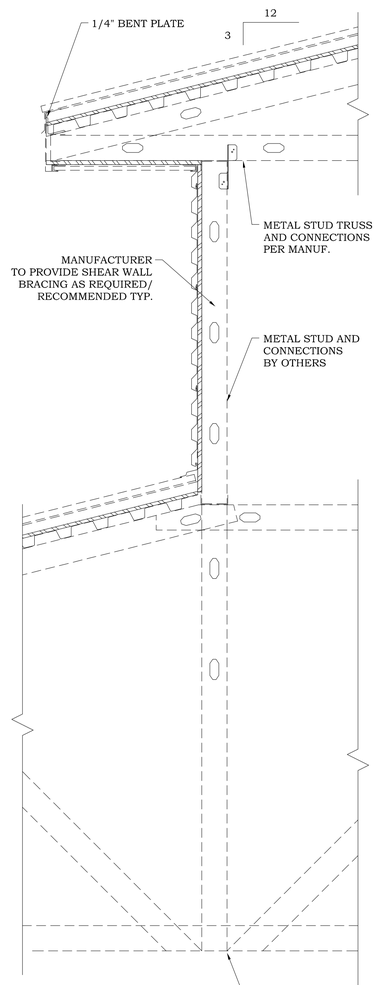


INTERIOR FOOTING 5

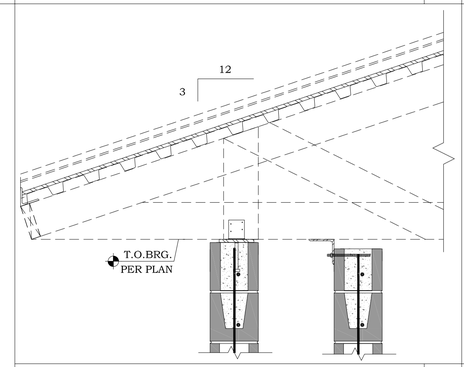
NOT USED 1



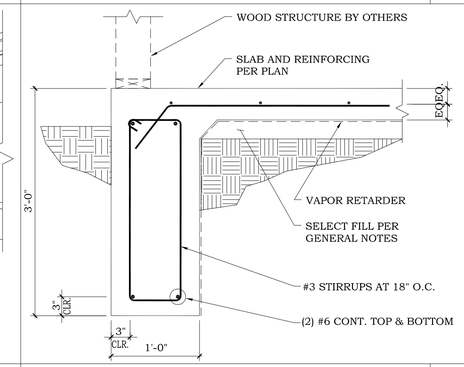
METAL STUD TRUSS TO METAL STUD WALL 20



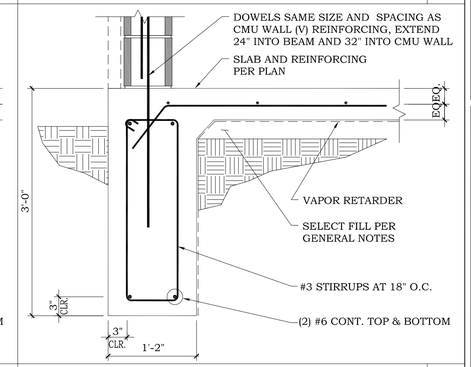
METAL STUD TRUSS TO METAL STUD WALL 16



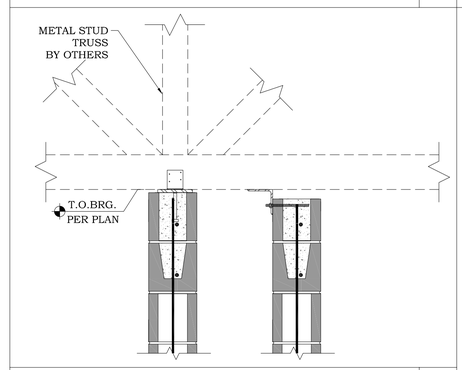
METAL STUD TRUSS TO CMU WALL 10



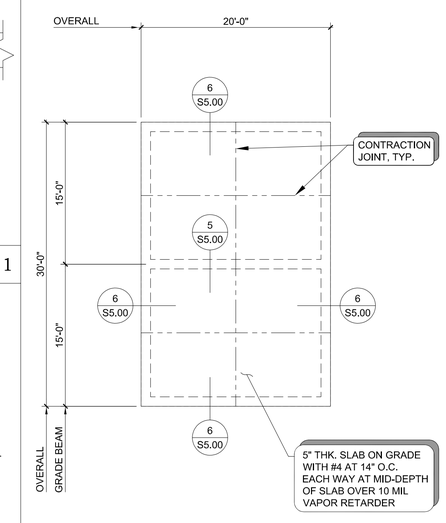
EXTERIOR FOOTING 6



EXTERIOR FOOTING 2



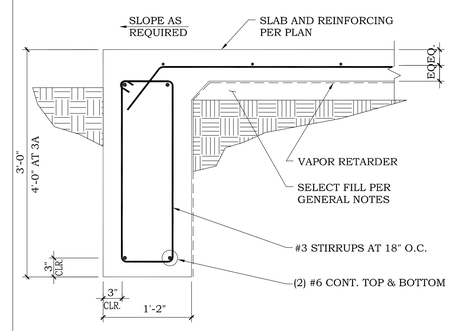
METAL STUD TRUSS TO CMU WALL 11



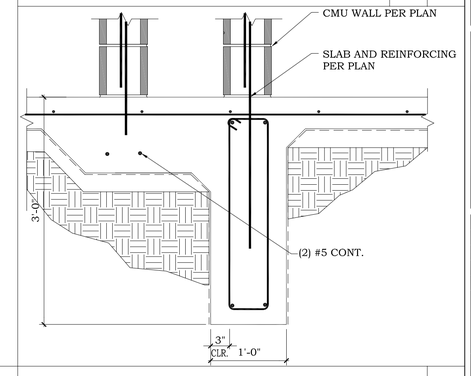
NOTE: REFER TO SHEET 1.2 FOR REQUIRED SITE PREPARATION.

NOTE: VERIFY DIMENSIONS w/ MANUF. TYP.

FOUNDATION PAD FOR MAINTENANCE SHED/ALTERNATE #1 8



EXTERIOR FOOTING 3A 3



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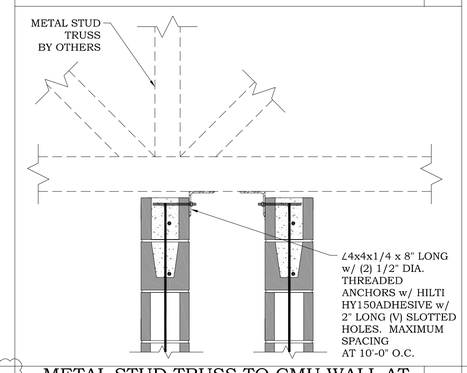

METAL STUD TRUSS TO CMU WALL AT NON LOAD BEARING WALL 12

CHANIN ENGINEERING, LLC
TBPE FIRM REG. NUMBER F-9369
PH: (956) 687-9421
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400 Nolana, Suite H2
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CITY OF McALLEN
SOFTBALL FIELD FACILITIES
MUNICIPAL PARK
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14800 ST. MARY'S LANE, SUITE 160
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Revision		
No.	Date	Description
1	07-26-18	ADDENDUM #1

STATE OF TEXAS
MIGUEL CHANIN
93127
LICENSED
PROFESSIONAL ENGINEER
7-11-18

100% CONSTRUCTION DOCUMENTS

Project No.:	17325
Issued:	07/11/2018
Drawn By:	LR
Checked By:	MC
Scale:	AS SHOWN

Sheet Title

DETAILS

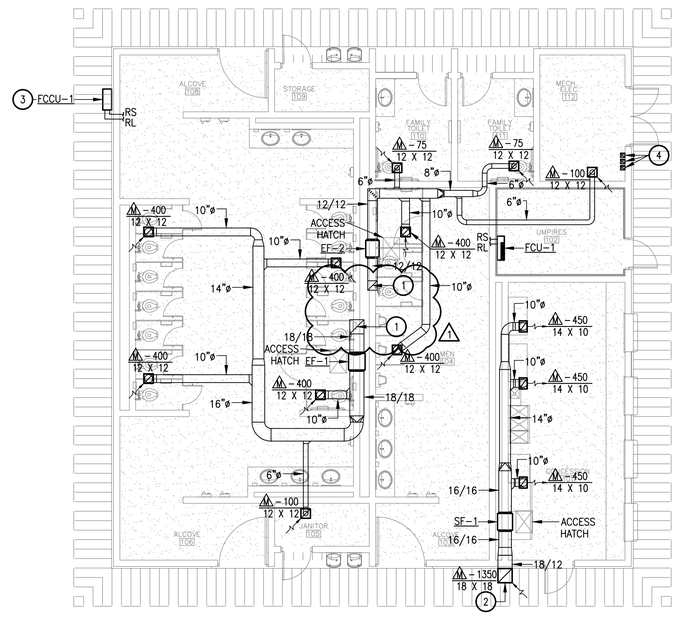
S5.00
Sheet Number

GENERAL NOTES:

A. REFER TO SHEET M0.01 FOR MECHANICAL GENERAL NOTES.

KEY NOTES:

1. TURN EXHAUST DUCT UP TOWARDS CUPOLA AND TERMINATE IN 1/2" MESH BIRDSCREEN.
2. MOUNT INTAKE GRILL IN SOFFIT PANEL. CUSTOM COLOR TO MATCH SOFFIT.
3. CONTRACTOR SHALL INSTALL CONDENSING UNIT ON WALL. TOP OF CONDENSING UNIT SHALL BE 1" BELOW SOFFIT. REFER TO SHEET M2.01 DETAIL 04.
4. CONTRACTOR SHALL INSTALL TIME CLOCK CONTROLLERS, ONE PER EXHAUST FAN, EQUAL TO TORK #DG100A. REFER TO ELECTRICAL SHEET E1.04



01 MECHANICAL PLAN

SCALE: 1/8" = 1'-0"

CITY OF MCALLEN
SOFTBALL FIELD FACILITIES
MUNICIPAL PARK
MCALLEN, TEXAS

McALLEN Parks & Recreation

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5900 WEST MILITARY, SUITE 100
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TBPE FIRM #F-312

Revision No.	Date	Description
1	7-26-2018	Addendum #1

STATE OF TEXAS
HUGO H. AVILA
90071
LICENSED PROFESSIONAL ENGINEER
7-11-18

100% CONSTRUCTION DOCUMENTS

Project No.:	33348
Issued:	07-11-18
Drawn By:	K.G/J.B
Checked By:	H.A.
Scale:	AS NOTED
Sheet Title	MECHANICAL PLAN

M1.01
Sheet Number

File Name: i:\33000s\33348\001\MEP\CADD\M1.01-PL-33348.dwg
Current Tab (Layout): M1.01 User: AH3047
Printed Date: 7/25/2018 1:40:05 PM

FAN SCHEDULE

MARK	CFM	SERVICE	TYPE	RPM	EXT SP (IN WG)	MOTOR SIZE HP	BHP	DRIVE	VOLTAGE	MAX. SONES	WEIGHT (LBS)	MANUFACTURER	MODEL	NOTES
EF-1	1700	WOMENS	INLINE	1469	0.5	3/4	0.4	DIRECT	115	11.3	59	GREENHECK	SQ-130-VG	ALL
EF-2	1050	MENS/FAMILY/ELEC	INLINE	1558	0.5	1/4	0.2	DIRECT	115	9.2	45	GREENHECK	SQ-100-VG	ALL
SF-1	1300	CONCESSION	INLINE	1427	0.5	1/2	0.3	DIRECT	115	9.3	55	GREENHECK	SQ-120-VG	ALL

NOTES
1. FAN SHALL HAVE FACTORY INSTALLED, PRE-WIRED INTEGRAL DISCONNECT SWITCH FROM FACTORY.
2 FAN SHALL BE PROVIDED WITH FACTORY-MOUNTED SPEED CONTROL.
3. EACH FAN SHALL BE CONTROLLED THROUGH INDIVIDUAL TIME CLOCK. MODEL:TORK #DG100A. REFER TO ELECTRICAL PLANS.

GENERAL NOTES, TYPICAL OF ALL FANS:
A. CONTRACTOR SHALL CONFIRM DUCT PENETRATIONS, CURB DIMENSIONS, WEIGHT SHALL NOT EXCEED SCHEDULED PRODUCT.
B. ALL FANS INCLUDE DRIVE LOSSES. SUPPLIER SHALL PROVIDE DRIVE LOSS CALCULATIONS WITH EACH FAN DURING SUBMITTALS.
C. SOUND POWER LEVELS/SONES AND FAN RPM SHALL NOT EXCEED SCHEDULED VALUES.

GRILLE/DIFFUSER/REGISTER SCHEDULE

MARK	SERVICE	DESCRIPTION	MANUFACTURER MODEL NO.	MAX. NC. LEVEL (1)	REMARKS
M	EXHAUST	HEAVY DUTY SURFACE MOUNTED ALUMINUM EXHAUST GRILLE WITH 1/2" BLADE SPACING AND 0" FIXED DEFLECTION.	TITUS 60FL	30	COLOR BY ARCHITECT

F =THIS WILL DESIGNATE A STEEL FIRE RATED AIR DEVICE TYPE.

CBA = COLOR BY ARCHITECT

* = SEE ARCHITECTURAL DRAWINGS PROPER BORDER TYPES

AIR OUTLET DESIGNATION ON PLANS

MARK → A – 200 ← AIR FLOW (CFM
12 X 8 ← RECTANGULAR FACE SIZE (WHERE APPLICABLE

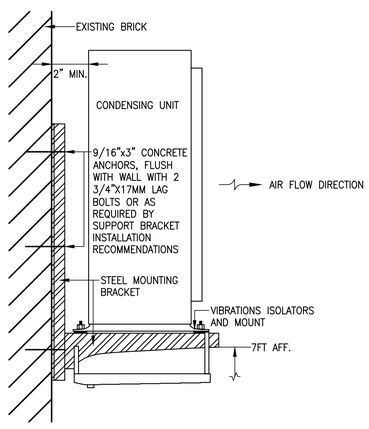
CAPACITY	FACE	NECK/FLEXIBLE CONNECTION
0–150	6 X 6	6"
151–285	9 X 9	8"
286–440	12 X 12	10"
441–550	12 X 12	12"
551–750	15 X 15	14"
750–1000	18 X 18	16"

NOTE: COORDINATE ALL AIR DEVICE TYPE WITH ARCHITECTURAL RCP.

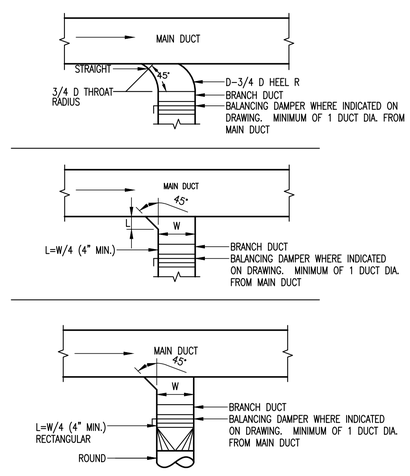
WALL MOUNT SPLIT SYSTEM SCHEDULE

INDOOR UNIT MARK	FCU-1
INDOOR UNIT TYPE	WALL
MAX SUPPLY CFM	328
MINIMUM O/A (CFM)	N/A
ENTERING AIR (DB/WB)	80/67
TOTAL COOLING CAP. (BTUH)	10900
SENSIBLE COOLING CAP. (BTUH)	9480
HEATING CAPACITY (BTUH)	13500
VOLTAGE/PHASE	208-230/1
MCA	N/A
MAX. FUSE SIZE	N/A
MANUFACTURER	DAIKIN
MODEL NO.	FTX12NMVJU
WEIGHT (LBS)	18
CONDENSING UNIT MARK	FCCU-1
VOLTAGE/PHASE	208-230/1
MCA	12.2
MAX. FUSE SIZE	15
AMB. AIR TEMP. (CLG°F/HTG°F)	95/47
REFRIGERANT	R-410A
COOLING AMBIENT RANGE	(-4°F) – 115°F
HEATING MODE OPER. RANGE	5°F – 75°F
MANUFACTURER	DAIKIN
MODEL NO.	RX12NMVJU
WEIGHT (LBS)	60
SEER	19
HTG EFF. (HSPF)	8.5
MAX LINE LENGTH (FT)	66
MAX. VERTICAL RISE (FT)	49
NOTES	ALL

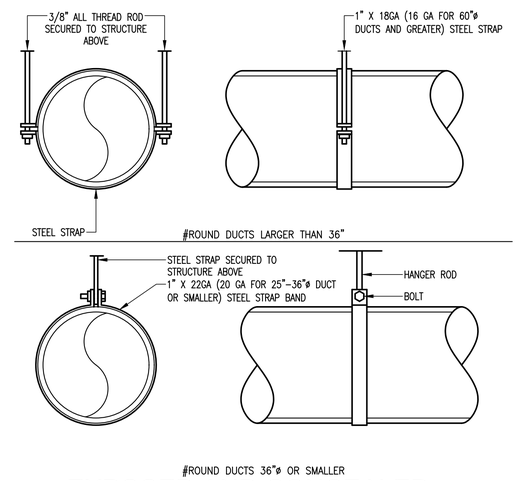
NOTES:
1. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE CIRCUIT POWER FROM SERVICE TO OUTDOOR UNIT AND WIRE TO INDOOR UNIT.
2. PROVIDE INDOOR UNITS WITH MOUNTING BRACKETS IF REQUIRED.
3. PROVIDE CONDENSER COIL CORROSION PROTECTION.
4. CONTRACTOR TO PROVIDE PAD OR CURB FOR MOUNTING CONDENSING UNIT.
5. BOTH LIQUID AND SUCTION LINES MUST BE INSULATED (1/2" FLEXIBLE ELASTOMERIC IS ACCEPTABLE UNLESS INDICATED OTHERWISE IN SPECIFICATIONS).
6. SIGHT GLASSES, FILTER DRYERS, AND FIELD SUPPLIED EXPANSION VALVES ARE NOT TO BE USED.
7. PROVIDE INVERTER DRIVEN COMPRESSOR FOR IMPROVED HUMIDITY CONTROL.
8. INSTALL PER MANUFACTURERS INSTRUCTIONS AND PIPING RECOMMENDATIONS.
9. PROVIDE WALL MOUNTED AND WIRED 7-DAY PROGRAMMABLE T-STAT.
10. 2 YEAR PARTS & 10 YEAR COMPRESSOR PART WARRANTY



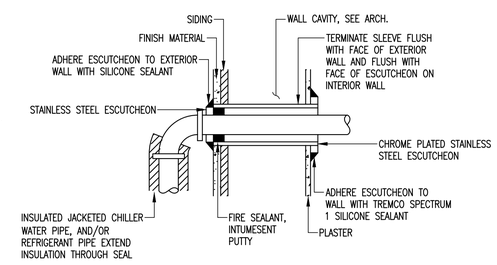
04 WALL MOUNTED CONDENSING UNIT
SCALE: N.T.S.



03 TYPICAL BRANCH CONNECTION
SCALE: N.T.S.



02 EXPOSED AND CONCEALED ROUND DUCT HANGER
SCALE: N.T.S



01 TYP. EXTERIOR WALL PENETRATION
SCALE: N.T.S.

CITY OF MCALLEN
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TBPE FIRM #F-312

Revision No.	Date	Description
1	7-26-2018	Addendum #1

STATE OF TEXAS
HUGO H. AVILA
90071
LICENSED PROFESSIONAL ENGINEER
7-11-18

100% CONSTRUCTION DOCUMENTS

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Sheet Number	

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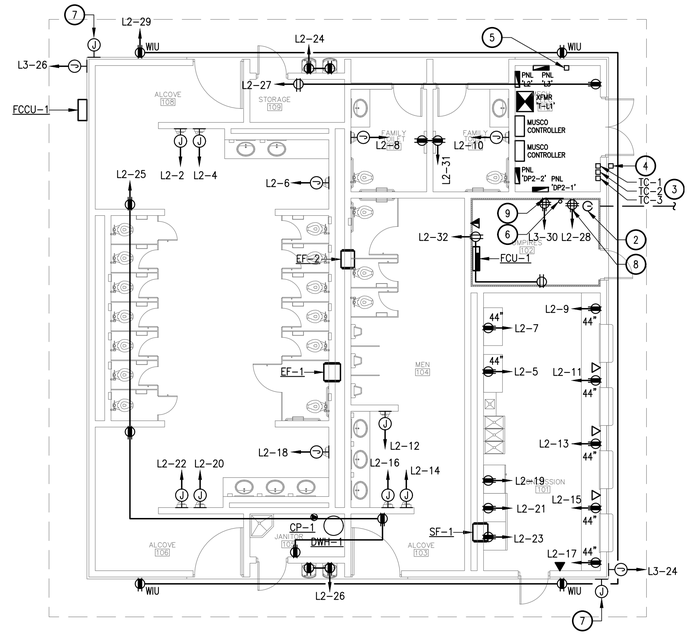
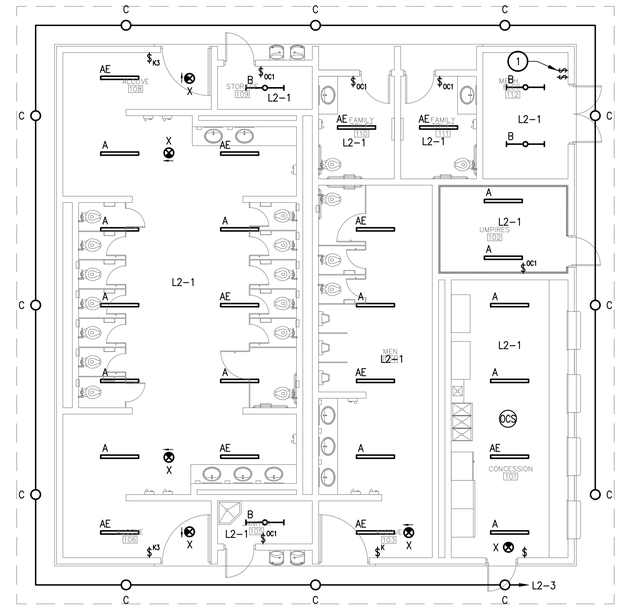


02 ELECTRICAL POWER PLAN - CONCESSION
SCALE: 1/8" = 1'-0"



01 ELECTRICAL LIGHTING PLAN - CONCESSION
SCALE: 1/8" = 1'-0"

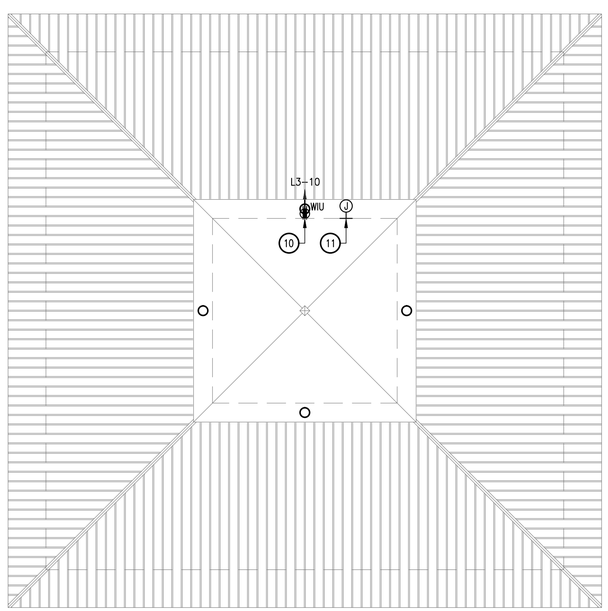
GENERAL NOTES:

A. REFER TO SHEET E001 FOR ELECTRICAL GENERAL NOTES.

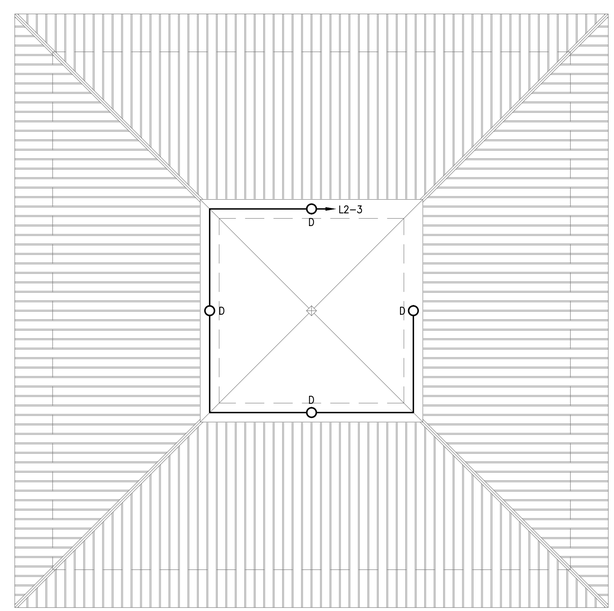
B. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT.

KEY NOTES:

1. PROVIDE DEDICATED LIGHT SWITCH FOR CONTROL OF CUPOLA LIGHTING. SWITCH SHALL BE WIRED TO OVERRIDE TIMECLOCK CONTROL OF EXTERIOR LIGHTS.
2. PROVIDE (2) 4"PVC CONDUITS AND STUB OUT FROM UMPIRE'S ROOM WITH PULL STRING. REFER TO SITE PLAN FOR LOCATION OF FIBER PEDESTAL.
3. TYPICAL OF ALL FANS. PROVIDE DIGITAL, SINGLE CHANNEL, 7 DAY PROGRAMMABLE TIME CLOCK WITH HOLIDAY SCHEDULING. BASIS OF DESIGN: TORK #DG100A.
4. PROVIDE WITH KNOX BOX.
5. PROVIDE ASTRONOMIC, DUAL CHANNEL, PROGRAMMABLE TIME CLOCK (TC-4) WITH HOLIDAY SCHEDULING AND PHOTOCELL INPUT. BASIS OF DESIGN: TORK #DGLC200A-NC FOR CONTROL EXTERIOR LIGHTING.
6. PROVIDE (2) 4" CONDUITS WITH PULL STRING AND STUB OUT OF BUILDING, BELOW GRADE. CONDUIT SHALL BE ROUTED TO EXISTING TELEPHONE PEDESTAL ON NORTH PROPERTY LINE. REFER TO SITE PLAN FOR ADDITIONAL INFORMATION.
7. PROVIDE RECESSED, DOUBLE GANG, WEATHER PROOF JUNCTION BOX AT BUILDING SOFFIT WITH 1/2"C STUBBED INTO ACCESSIBLE ATTIC SPACE. PROVIDE PULL STRING. BOX SHALL SERVE FOR CAMERA INSTALLATION.
8. COORDINATE QUAD RECEPTACLE LOCATION WITH CITY OF MCALLEN IT DEPARTMENT PRIOR TO ROUGH-IN. RECEPTACLE SHALL BE INSTALLED AT HEIGHT EQUAL TO COMMUNICATIONS RACK.
9. PROVIDE 2'x2'x3/4" PLYWOOD BOARD FOR TELEPHONE SERVICE DEMARC.
10. RECEPTACLE IN WEATHER-PROOF ENCLOSURE TO BE INSTALLED AT EXTERIOR WALL OF CUPOLA 4" BELOW LOUVER.
11. INSTALL 4X4 J-BOX AND 1-1/4" CONDUIT WITH PULL-STRING FOR DATA CABLE ROUTING FOR FUTURE SPEAKER SYSTEM.



04 ELECTRICAL POWER PLAN - CUPOLA
SCALE: 1/8" = 1'-0"



03 ELECTRICAL LIGHTING PLAN - CUPOLA
SCALE: 1/8" = 1'-0"

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TBPE FIRM #F-312

Revision		
No.	Date	Description
1	7-26-2018	Addendum #1

STATE OF TEXAS
THOMAS E. DEARMIN
54352
REGISTERED PROFESSIONAL ENGINEER
7/11/18

100% CONSTRUCTION DOCUMENTS

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Sheet Title
CONCESSION BUILDING ELECTRICAL PLANS

E1.04
Sheet Number

File Name: I:\33000s\33348\001\WEP\CADD\E104-EP-33348.dwg
Current Tab (Layout): E1.04 CONCESSION BUILDING ELECTRICAL PLANS User: AH2522
Printed Date: 7/25/2018 2:19:14 PM

PANELBOARD 'L3'

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION: ELECTRICAL ROOM
LUGS ONLY — MOUNTING: SURFACE
BUSES: MAIN – 100 A; NEUTRAL – 100%; EQUIPMENT GROUND — Isc = 10,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
0	180		RECEPTACLE (POLE B10)	20/1	1	A	2	20/1	PWR: SCOREBOARD 4	0	0	500
0	180		RECEPTACLE (POLE B9)	20/1	3	B	4	20/1	PWR: SCOREBOARD 5	0	0	500
0	180		RECEPTACLE (POLE B14)	20/1	5	C	6	20/1	PWR: SCOREBOARD 6	0	0	500
0	180		RECEPTACLE (POLE B13)	20/1	7	A	8	20/1	REC: BATTING CAGES – NORTH	0	900	
0	180		RECEPTACLE (POLE B12)	20/1	9	B	10	20/1	REC: CUPOLA	0	180	1
0	180		RECEPTACLE (POLE B11)	20/1	11	C	12	20/1	SPARE	0	0	
0	180		RECEPTACLE (POLE A6)	20/1	13	A	14	20/1	SPARE	0	0	
0	180		RECEPTACLE (POLE A5)	20/1	15	B	16	20/1	CAMERA FEED ON POLE B11	0	180	
0	180		RECEPTACLE (POLE A8)	20/1	17	C	18	20/1	CAMERA FEED ON POLE B12	0	180	
0	180		RECEPTACLE (POLE A7)	20/1	19	A	20	20/1	CAMERA FEED ON POLE A7	0	180	
0	0		SPARE	20/1	21	B	22	20/1	CAMERA FEED ON POLE B9	0	180	
0	0		SPARE	20/1	23	C	24	20/1	CAMERA FEED ON RR BLDG NORTH	0	180	
0	180		RECEPTACLE (POLE P1)	20/1	25	A	26	20/1	CAMERA FEED ON RR BLDG SOUTH	0	180	
0	180		PWR: ECB–2	20/1	27	B	28	20/1	CAMERA FEED ON POLE B14	0	180	
0	180		RECEPTACLE (BACKSTOP FIELD 4)	20/1	29	C	30	20/1	RECEP: TELEPHONE BOARD	0	360	
0	180		RECEPTACLE (BACKSTOP FIELD 5)	20/1	31	A	32	20/1	LTG: FLAG POLES	1500	0	
0	180		RECEPTACLE (BACKSTOP FIELD 6)	20/1	33	B	34	20/1	SPARE	0	0	
0	0		SPARE	20/1	35	C	36	20/1	SPARE	0	0	
0	0		SPARE	20/1	37	A	38	20/1	SPARE	0	0	
0	0		SPARE	20/1	39	B	40	20/1	SPARE	0	0	
0	0		SPARE	20/1	41	C	42	20/1	SPARE	0	0	

VA:L (LIGHTING)	1500	CONNECTED	1875	DEMAND
VA:R (RECEPTACLES)	5400	CONNECTED	5400	DEMAND
VA:O (OTHER)	1500	CONNECTED	1500	DEMAND
VA: TOTAL	8400	CONNECTED	8775	DEMAND
AMPS: TOTAL	23	CONNECTED	24	DEMAND

L	R	O		TOTAL			
1500	2340	500	VA CONNECTED TO A PHASE	4340	VA =	36	AMPS CONNECTED TO A PHASE @ 120 VOLTS
0	1620	500	VA CONNECTED TO B PHASE	2120	VA =	18	AMPS CONNECTED TO B PHASE @ 120 VOLTS
0	1440	500	VA CONNECTED TO C PHASE	1940	VA =	16	AMPS CONNECTED TO C PHASE @ 120 VOLTS
1500	5400	1500	TOTAL	8400	VA		

NEW PANELBOARD 'L1'

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION: EQUIPMENT RACK
LUGS ONLY — MOUNTING: SURFACE
BUSES: MAIN – 225 A; NEUTRAL – 100%; EQUIPMENT GROUND — Isc = 10,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
0	0	500	PWR: SCOREBOARD FIELD 1	20/1	1	A	2	20/1	RECEPTACLE (POLE B1)	0	180	
0	0	500	PWR: SCOREBOARD FIELD 2	20/1	3	B	4	20/1	RECEPTACLE (POLE B2)	0	180	
0	0	500	PWR: SCOREBOARD FIELD 3	20/1	5	C	6	20/1	RECEPTACLE (POLE B3)	0	180	
0	180		CAMERA FEED ON POLE B1	20/1	7	A	8	20/1	RECEPTACLE (POLE B4)	0	180	
0	180		CAMERA FEED ON POLE A1	20/1	9	B	10	20/1	RECEPTACLE (POLE B5)	0	180	
0	180		CAMERA FEED ON POLE A3	20/1	11	C	12	20/1	RECEPTACLE (POLE B6)	0	180	
0	180		CAMERA FEED ON POLE B5	20/1	13	A	14	20/1	RECEPTACLE (POLE B7)	0	180	
0	180		CAMERA FEED ON POLE B3	20/1	15	B	16	20/1	RECEPTACLE (POLE B8)	0	180	
0	180		PWR: ECB–1	20/1	17	C	18	20/1	RECEPTACLE (POLE A1)	0	180	
0	0		SPARE	20/1	19	A	20	20/1	RECEPTACLE (POLE A2)	0	180	
0	0		SPARE	20/1	21	B	22	20/1	RECEPTACLE (POLE A3)	0	180	
0	0		SPARE	20/1	23	C	24	20/1	RECEPTACLE (POLE A4)	0	180	
0	0		SPARE	20/1	25	A	26	20/1	SPARE	0	0	
0	0		SPARE	20/1	27	B	28	20/1	SPARE	0	0	
0	0		SPARE	20/1	29	C	30	20/1	SPARE	0	0	
0	0		SPACE	–	31	A	32	–	SPACE	0	0	
0	0		SPACE	–	33	B	34	–	SPACE	0	0	
0	0		SPACE	–	35	C	36	–	SPACE	0	0	
0	0		SPACE	–	37	A	38	–	SPACE	0	0	
0	0		SPACE	–	39	B	40	–	SPACE	0	0	
0	0		SPACE	–	41	C	42	–	SPACE	0	0	

VA:L (LIGHTING)	0	CONNECTED	0	DEMAND
VA:R (RECEPTACLES)	3240	CONNECTED	3240	DEMAND
VA:O (OTHER)	1500	CONNECTED	1500	DEMAND
VA: TOTAL	4740	CONNECTED	4740	DEMAND
AMPS: TOTAL	13	CONNECTED	13	DEMAND

L	R	O		TOTAL			
0	1080	500	VA CONNECTED TO A PHASE	1580	VA =	13	AMPS CONNECTED TO A PHASE @ 120 VOLTS
0	1080	500	VA CONNECTED TO B PHASE	1580	VA =	13	AMPS CONNECTED TO B PHASE @ 120 VOLTS
0	1080	500	VA CONNECTED TO C PHASE	1580	VA =	13	AMPS CONNECTED TO C PHASE @ 120 VOLTS
0	3240	1500	TOTAL	4740	VA		

PANELBOARD 'L4'

VOLTAGE: PRIMARY INPUT 480V TO 240/120 VOLT 1 PHASE SECONDARY — LOCATION: GREEN AREA
FACTORY INTALLED PRIMARY AND SECONDARY MAIN BREAKERS — MOUNTING: EQUIPMENT RACK
BUSES: MAIN – 125 A; NEUTRAL – 100%; EQUIPMENT GROUND — Isc = 18,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
0	0	1980	REC: FOOD TRUCKS	30/1	1	A	2	30/1	REC: FOOD TRUCKS	0	0	1980
0	0	1980	REC: FOOD TRUCKS	30/1	3	B	4	30/1	REC: FOOD TRUCKS	0	0	1980
0	0	1980	REC: FOOD TRUCKS	30/1	5	A	6	30/1	REC: FOOD TRUCKS	0	0	1980
0	0	1980	REC: FOOD TRUCKS	30/1	7	B	8	30/1	REC: FOOD TRUCKS	0	0	1980
0	0	1980	REC: MOBILE STAGE	30/1	9	A	10	20/1	SPARE	0	0	
0	0		SPARE	20/1	11	B	12	20/1	SPARE	0	0	
0	0		SPARE	20/1	13	A	14	20/1	SPARE	0	0	
0	0		SPARE	20/1	15	B	16	20/1	SPARE	0	0	
0	0		SPACE	–	17	A	18	–	SPACE	0	0	
0	0		SPACE	–	19	B	20	–	SPACE	0	0	
0	0		SPACE	–	21	A	22	–	SPACE	0	0	
0	0		SPACE	–	23	B	24	–	SPACE	0	0	
0	0		SPACE	–	25	A	26	–	SPACE	0	0	
0	0		SPACE	–	27	B	28	–	SPACE	0	0	
0	0		SPACE	–	29	A	30	–	SPACE	0	0	
0	0		SPACE	–	31	B	32	–	SPACE	0	0	
0	0		SPACE	–	33	A	34	–	SPACE	0	0	
0	0		SPACE	–	35	B	36	–	SPACE	0	0	
0	0		SPACE	–	37	A	38	–	SPACE	0	0	
0	0		SPACE	–	39	B	40	–	SPACE	0	0	

VA:L (LIGHTING)	0	CONNECTED	0	DEMAND
VA:R (RECEPTACLES)	0	CONNECTED	0	DEMAND
VA:O (OTHER)	17820	CONNECTED	17820	DEMAND
VA: TOTAL	17820	CONNECTED	17820	DEMAND
AMPS: TOTAL	74	CONNECTED	74	DEMAND

L	R	O		TOTAL			
0	0	9900	VA CONNECTED TO A PHASE	9900	VA =	83	AMPS CONNECTED TO A PHASE @ 120 VOLTS
0	0	7920	VA CONNECTED TO B PHASE	7920	VA =	66	AMPS CONNECTED TO B PHASE @ 120 VOLTS
0	0	17820	TOTAL	17820	VA		

PANELBOARD 'L2'

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION: ELECTRICAL ROOM
LUGS ONLY — MOUNTING: SURFACE
BUSES: MAIN – 225 A; NEUTRAL – 100%; EQUIPMENT GROUND — Isc = 10,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
1261	0		LTG: GENERAL	20/1	1	A	2	20/1	PWR: HAND DRYER	0	0	1800
360	0		LTG: BUILDING EXTERIOR	20/1	3	B	4	20/1	PWR: HAND DRYER	0	0	1800
0	1440		REC: CONCESSION	20/1	5	C	6	20/1	PWR: HAND DRYER	0	0	1800
0	1440		REC: CONCESSION	20/1	7	A	8	20/1	PWR: HAND DRYER	0	0	1800
0	1440		REC: CONCESSION	20/1	9	B	10	20/1	PWR: HAND DRYER	0	0	1800
0	1440		REC: CONCESSION	20/1	11	C	12	20/1	PWR: HAND DRYER	0	0	1800
0	1440		REC: CONCESSION	20/1	13	A	14	20/1	PWR: HAND DRYER	0	0	1800
0	1440		REC: CONCESSION	20/1	15	B	16	20/1	PWR: HAND DRYER	0	0	1800
0	1440		REC: CONCESSION	20/1	17	C	18	20/1	PWR: HAND DRYER	0	0	1800
0	900		REC: CONCESSION REFRIGERATOR	20/1	19	A	20	20/1	PWR: HAND DRYER	0	0	1800
0	900		REC: CONCESSION REFRIGERATOR	20/1	21	B	22	20/1	PWR: HAND DRYER	0	0	1800
0	900		REC: CONCESSION REFRIGERATOR	20/1	23	C	24	20/1	REC: WATER COOLER	0	0	500
0	720		REC: GENERAL	20/1	25	A	26	20/1	REC: WATER COOLER	0	0	500
0	540		REC: GENERAL	20/1	27	B	28	20/1	REC: IT RACK	0	720	
0	720		REC: EXTERIOR	20/1	29	C	30	20/1	PWR: CP–1	0	0	219
0	360		REC: FAMILY RESTROOM	20/1	31	A	32	20/1	REC: UMPIRE ROOM	0	360	
0	0	3000	PWR: DWH–1	40/2	33	B	34	15/2	PWR: FCCU–1 (FCU–1)	0	0	1269
0	0	3000	"	–	35	C	36	–	"	0	0	1269
0	0	1656	PWR: EF–1	20/1	37	A	38	50/3	PANEL 'L3'	1500	2340	500
0	0	696	PWR: EF–2	20/1	39	B	40	–	"	0	1440	500
0	0	1176	PWR: SF–1	20/1	41	C	42	–	"	0	1440	500

VA:L (LIGHTING)	3121	CONNECTED	3901	DEMAND
VA:R (RECEPTACLES)	21420	CONNECTED	15710	DEMAND
VA:O (OTHER)	34585	CONNECTED	34585	DEMAND
VA: TOTAL	59126	CONNECTED	54196	DEMAND
AMPS: TOTAL	164	CONNECTED	150	DEMAND

L	R	O		TOTAL			
2761	7560	9856	VA CONNECTED TO A PHASE	20177	VA =	168	AMPS CONNECTED TO A PHASE @ 120 VOLTS
360	6480	12665	VA CONNECTED TO B PHASE	19505	VA =	163	AMPS CONNECTED TO B PHASE @ 120 VOLTS
0	7380	12064	VA CONNECTED TO C PHASE	19444	VA =	162	AMPS CONNECTED TO C PHASE @ 120 VOLTS
3121	21420	34585	TOTAL	59126	VA		

CITY OF MCALLEN
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TBPE FIRM #F-312

Revision No.	Date	Description
1	7-26-2018	Addendum #1

STATE OF TEXAS
THOMAS E. DEARMIN
54352
REGISTERED PROFESSIONAL ENGINEER
7/4/18

100% CONSTRUCTION DOCUMENTS

Project No.:	33348
Issued:	07-11-18
Drawn By:	CHAVEZ/MG
Checked By:	TED
Scale:	AS NOTED
Sheet Title	ELECTRICAL SCHEDULES

E3.04
Sheet Number

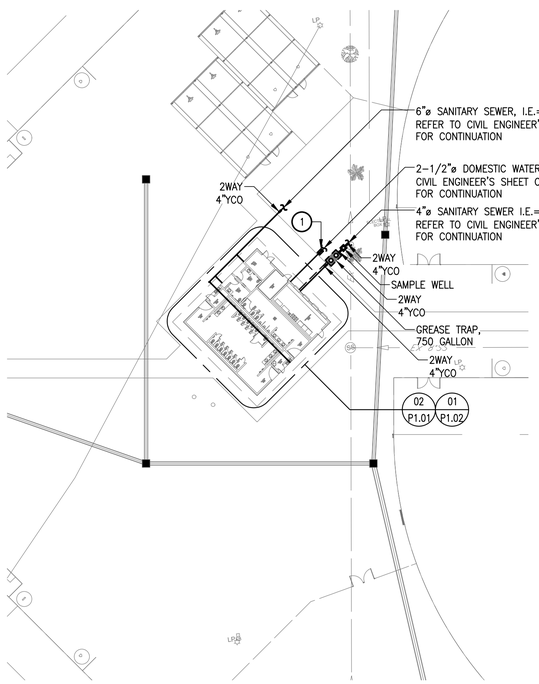
File Name: i:\33000s\33348\001\MEP\CADD\E304-SC-33348.dwg
Current Tab (Layout): E3.04 ELECTRICAL SCHEDULES User: AH2522
Printed Date: 7/25/2018 2:19:23 PM

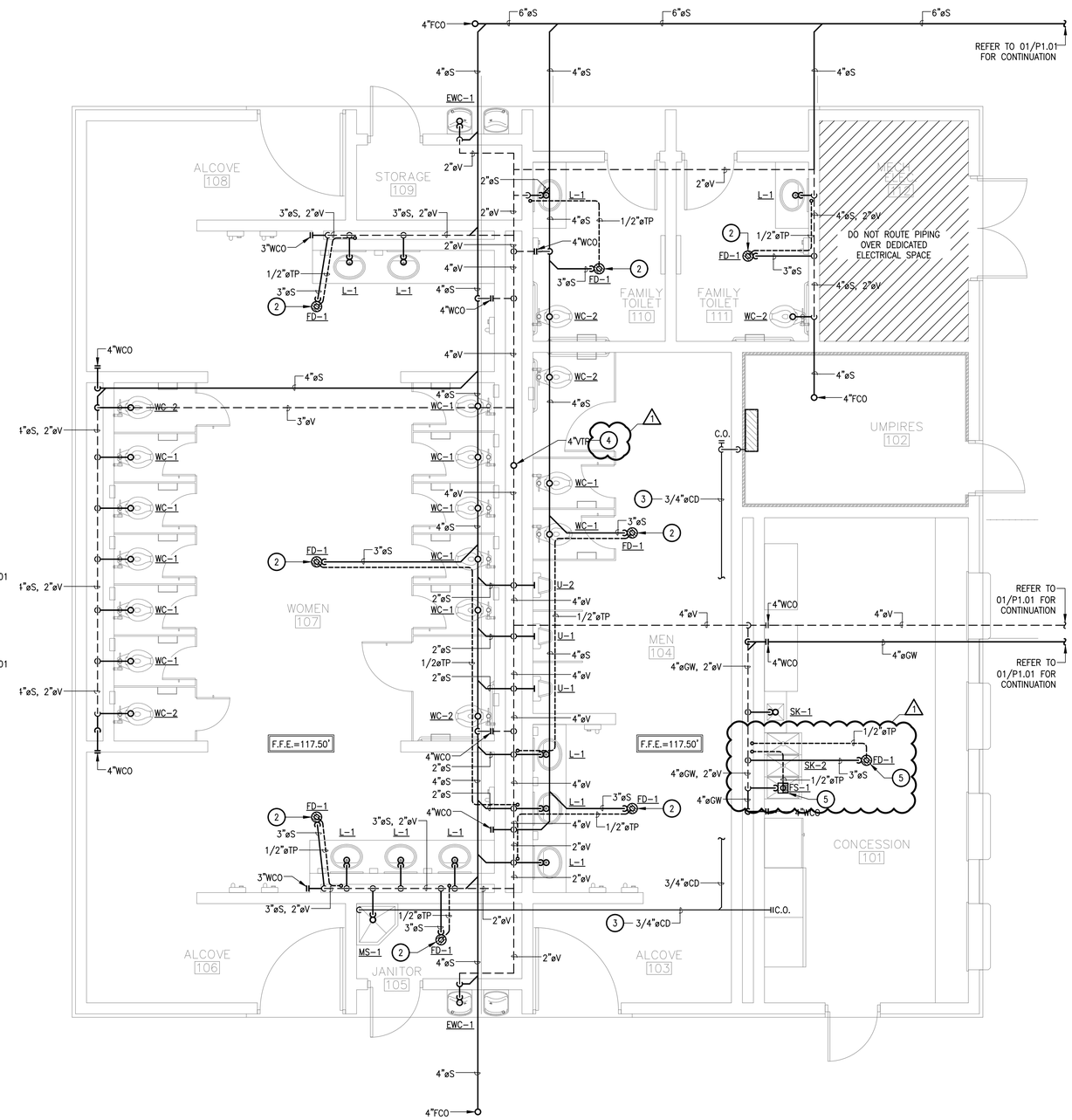
GENERAL NOTES:

A. REFER TO P0.01 FOR PLUMBING GENERAL NOTES.

KEY NOTES:

1. SHUT-OFF VALVE IN CAST BOX SET FLUSH WITH FINISH GRADE.
2. FLOOR DRAIN SHALL BE PRIMED WITH 1/2" PIPE FROM NEAREST LAVATORY P-TRAP TAILPIECE. REFER TO DETAIL 06 ON SHEET P2.01 FOR REQUIREMENTS.
3. PROVIDE AND INSTALL INSULATED COPPER CONDENSATE DRAIN LINE IN ATTIC SPACE. PROVIDE PIPE HANGER SUPPORTS MAXIMUM 5'-0" O.C. SPACING. SLOPE PIPING 1/8 INCH PER FOOT. ROUTE AND DROP CONDENSATE LINE EXPOSED ALONG THE WALL INTO NEAREST MOP SINK. CLAMP PIPE SECURELY TO WALL.
4. RISE VENT AND TERMINATE INSIDE VENTILATED ROOF CUPULA. REFER TO ARCHITECTURAL PLANS FOR CUPULA INFORMATION. DO NOT PENETRATE ROOF WITH VENT.
5. FLOOR DRAIN/FLOOR SINK SHALL BE PRIMED FROM TRAP PRIMER VALVE ABOVE CEILING. REFER TO DOMESTIC WATER PLAN 01/P1.02 FOR TRAP PRIMER VALVE LOCATION ABOVE CEILING.





WHERE BEAM PENETRATIONS ARE REQUIRED FOR PROPER SLOPE AND CONNECTION OF SEWER LINE, PIPES SHALL BE SLEEVED. COORDINATE ANY BEAM PENETRATION WITH STRUCTURAL ENGINEER.

PLUMBING CONTRACTOR SHALL COORDINATE DOMESTIC WATER AND SANITARY SEWER LINE DIRECTION OF FLOW, SIZE, INVERT, AND POINT OF CONNECTION WITH CIVIL PLANS PRIOR TO INSTALLATION OF ROUGH-IN TO AVOID CONFLICT. ANY DISCREPANCIES FOUND BY THE PLUMBING CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.

01 PLUMBING PARTIAL SITE PLAN

SCALE: 1"=40'

02 PLUMBING SANITARY SEWER PLAN

SCALE: 1/4" = 1'-0"

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Revision		
No.	Date	Description
1	7-26-2018	Addendum #1

STATE OF TEXAS
HUGO H. AVILA
90071
LICENSED
PROFESSIONAL ENGINEER
7-11-18

100% CONSTRUCTION DOCUMENTS

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Scale:	AS NOTED

Sheet Title

PLUMBING PARTIAL SITE PLAN AND SANITARY SEWER PLAN

P1.01

Sheet Number

File Name: i:\33000s\33348\001\MEP\CADD\P1.01-PL-33348.dwg
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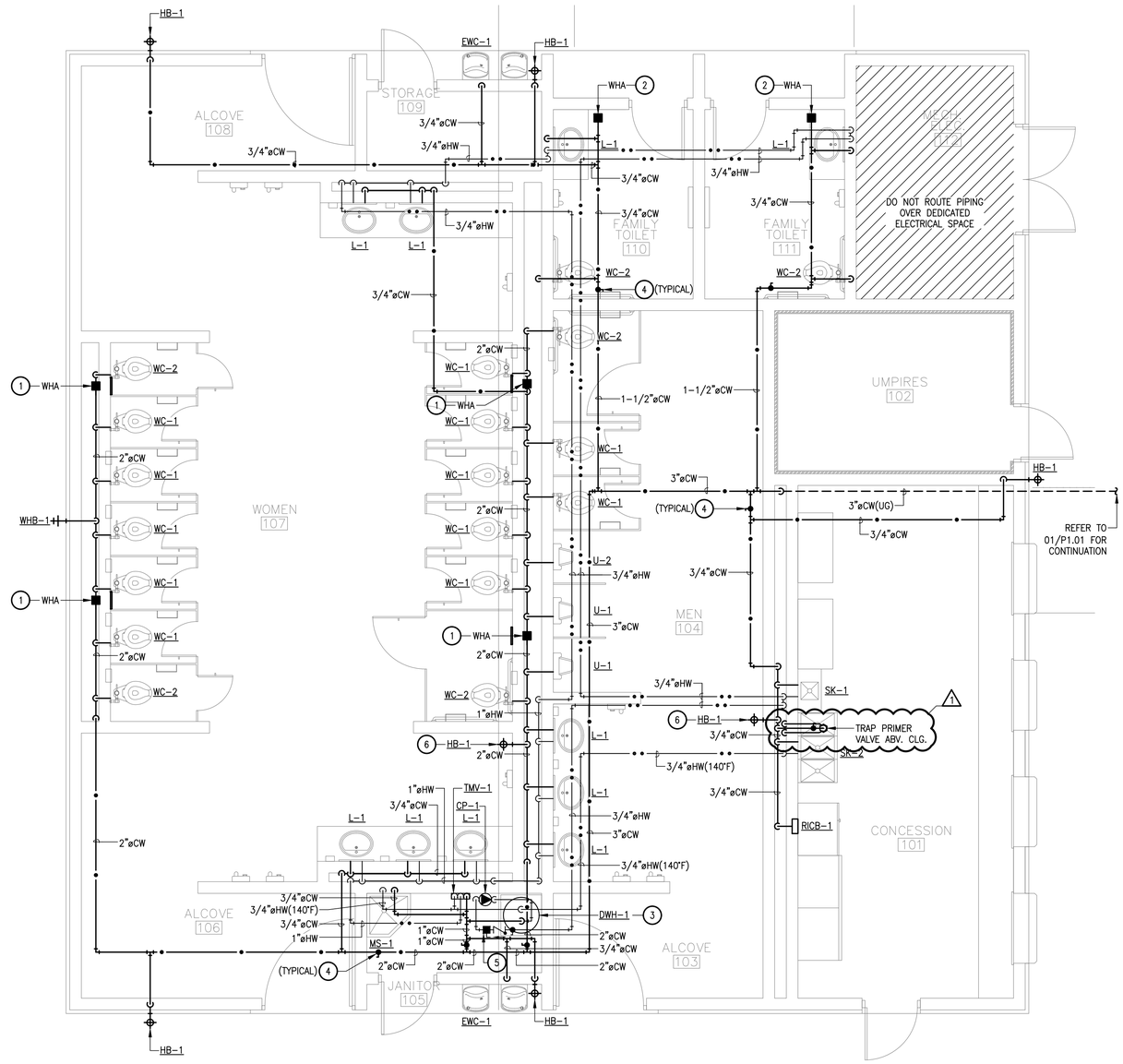
GENERAL NOTES:

A. REFER TO P0.01 FOR PLUMBING GENERAL NOTES.



01 PLUMBING DOMESTIC WATER PLAN

SCALE: 1/4" = 1'-0"

KEY NOTES:

1. WATER HAMMER ARRESTOR IN CHASE. WHERE INACCESSIBLE PROVIDE AND INSTALL 12"X12" HINGED 16 GAUGE STEEL ACCESS PANEL WITH LOCKABLE KEYED DOOR. PRIME COATED WITH RUST INHIBITIVE ELECTROSTATIC POWDER, BAKED GREY ENAMEL AND SHALL BE PAINTED TO MATCH SURROUNDING AREAS. COORDINATE LOCATION TO AVOID CONFLICTS WITH PLUMBING FIXTURE(S), STALL PARTITION AND/OR GRAB BARS.
2. WATER HAMMER ARRESTOR ABOVE CEILING. WHERE INACCESSIBLE PROVIDE AND INSTALL 12"X12" HINGED 16 GAUGE STEEL ACCESS PANEL WITH LOCKABLE KEYED DOOR. PRIME COATED WITH RUST INHIBITIVE ELECTROSTATIC POWDER, BAKED GREY ENAMEL AND SHALL BE PAINTED TO MATCH SURROUNDING AREAS. COORDINATE LOCATION TO AVOID CONFLICTS WITH LIGHT FIXTURES AND MECHANICAL EQUIPMENT ON CEILING.
3. PROVIDE AND INSTALL SHUT-OFF VALVES ON ALL INLETS AND OUTLETS OF WATER HEATER, CIRCULATING PUMP AND THERMOSTATIC MIXING VALVE.
4. SHUT-OFF VALVE ABOVE CEILING. WHERE INACCESSIBLE PROVIDE AND INSTALL 12"X12" HINGED 16 GAUGE STEEL ACCESS PANEL WITH LOCKABLE KEYED DOOR. PRIME COATED WITH RUST INHIBITIVE ELECTROSTATIC POWDER, BAKED GREY ENAMEL AND SHALL BE PAINTED TO MATCH SURROUNDING AREAS. COORDINATE LOCATION TO AVOID CONFLICTS WITH LIGHT FIXTURES AND MECHANICAL EQUIPMENT ON CEILING.
5. BALANCING VALVE, CHECK VALVE AND SHUT-OFF VALVE ABOVE CEILING. BALANCING VALVE SHALL BE SET TO 0.5GPM.
6. HOSE BIB SHALL BE INSTALLED 1'-6" ABOVE FINISH FLOOR. LOCATE HOSE BIB IN WALL SPACE BETWEEN P-TRAP SOLID ENCLOSURE AND APPROACH EDGE OF COUNTERTOP. REFER TO ARCHITECTURAL PLANS FOR ENCLOSURE DIMENSIONS TO AVOID CONFLICT.

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Revision		
No.	Date	Description
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STATE OF TEXAS
HUGO H. AVILA
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LICENSED PROFESSIONAL ENGINEER
7-11-18

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Sheet Title

PLUMBING DOMESTIC WATER PLAN

P1.02

Sheet Number

File Name: I:\33000s\33348\001\MEP\CADD\P1.02-PL-33348.dwg
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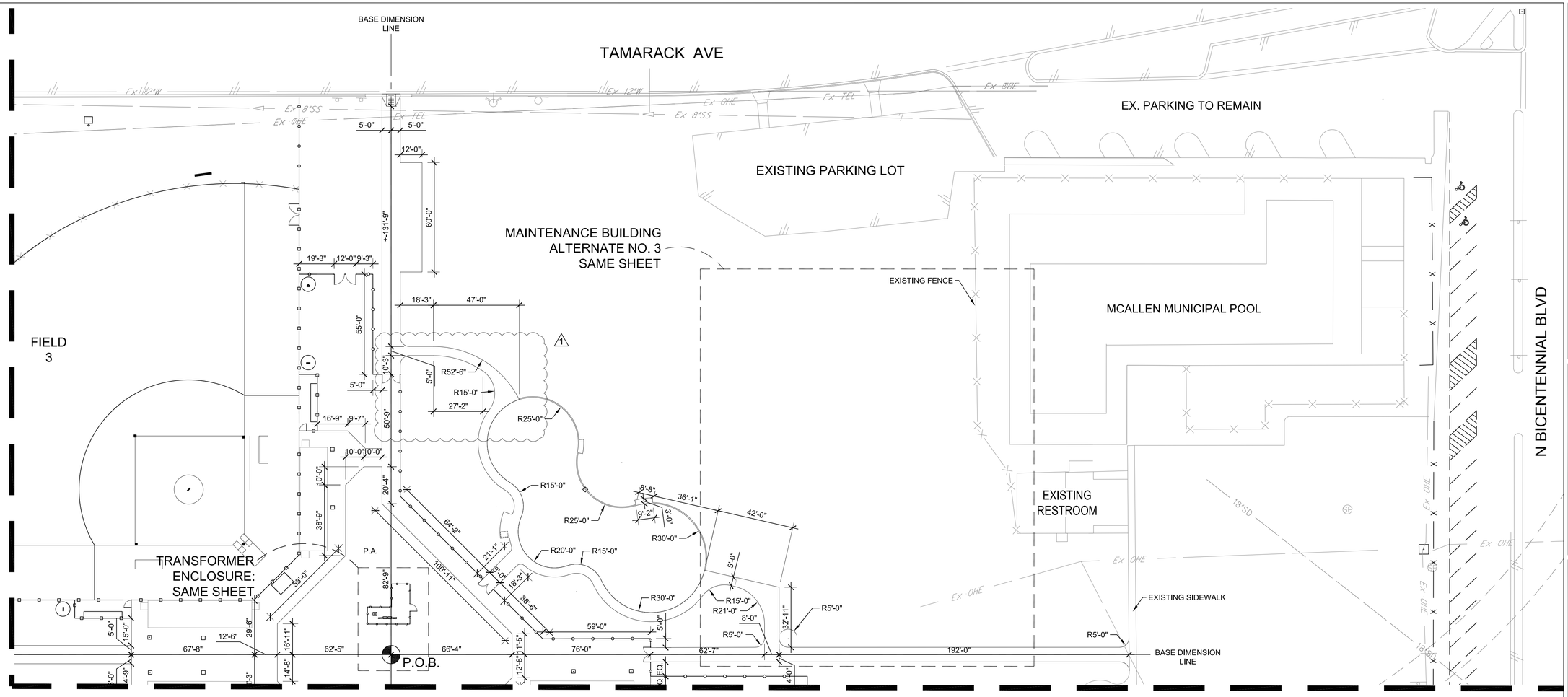
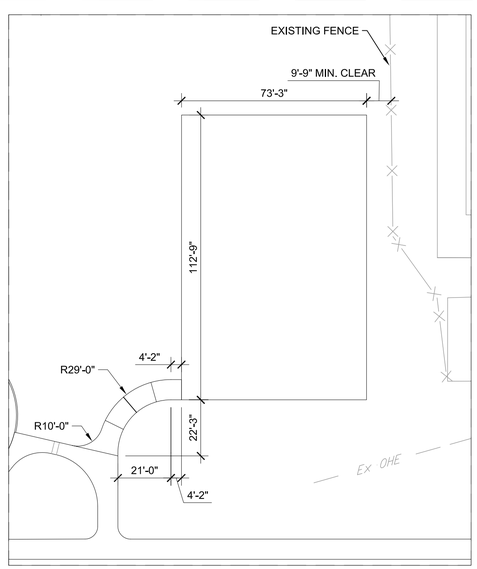
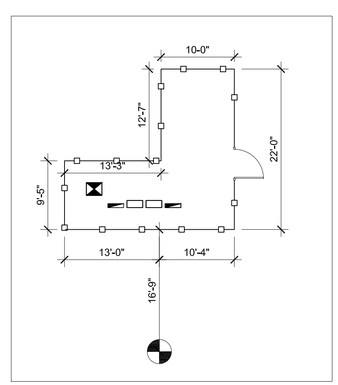


SCALE: 1" = 30'



BASKETBALL COURT
ALTERNATE NO. 3

SCALE: 1" = 30'



TRANSFORMER
ENCLOSURE

SCALE: 1" = 10'

PLAN LEGEND:

P.A. - PLANTING AREA
P.O.B. - POINT OF BEGINNING
SIM. - SIMILAR
TYP. - TYPICAL

PLAN NOTES:

1. POINT OF BEGINNING: CENTERPOINT OF LANDSCAPE FEATURE. REFER TO CIVIL ENGINEERING PAVING & DIMENSION CONTROL PLAN (C1.02) FOR COORDINATES.
2. DIMENSIONS OF FIELDS 1, 2, AND 3: REF. SHEET L4.03; DIMENSIONS OF FIELDS 4, 5, AND 6; REF. SHEET L4.04

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Revision No.	Date	Description
1	07-26-18	ADDENDUM NO.1

REGISTERED LANDSCAPE ARCHITECT
TIMOTHY W. MAY
1221
STATE OF TEXAS
07/26/2018

100%
CONSTRUCTION
DOCUMENTS

Project No.:	33348.001
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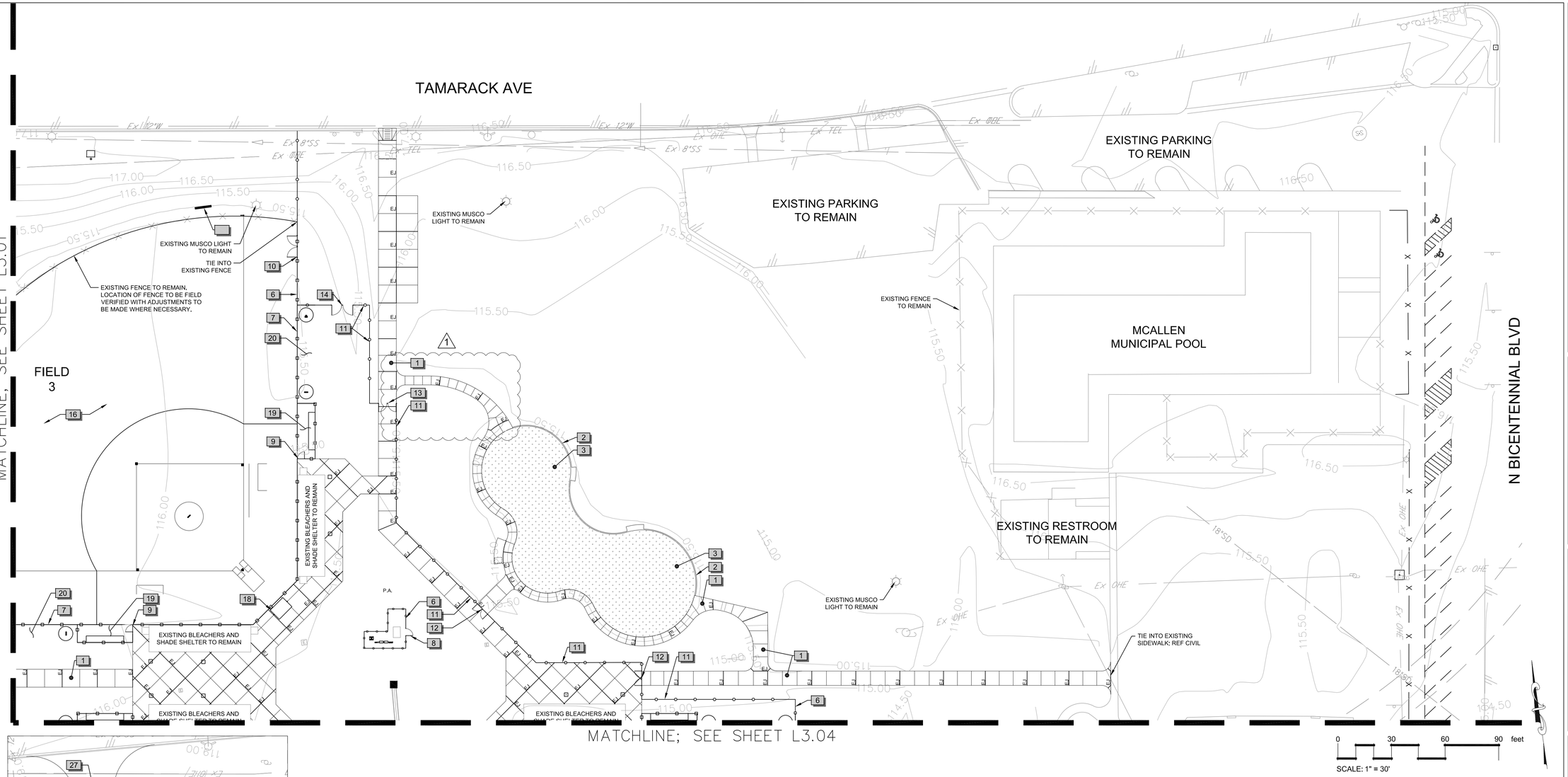
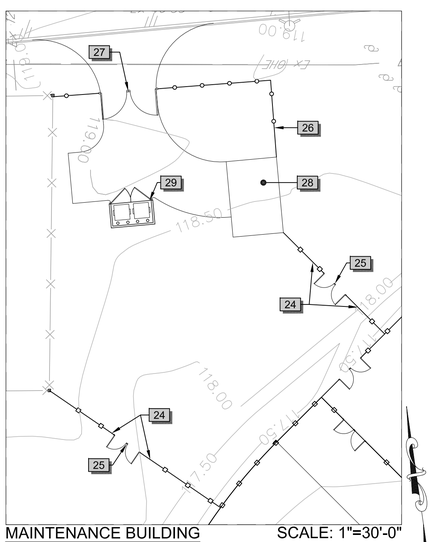
FLATWORK LAYOUT PLAN

L2.02
Sheet Number





REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	DETAIL
1	4" CONCRETE; REF. C8.00	
2	CONCRETE LANDSCAPE CURB	
3	FIBAR PLAYGROUND SURFACE; REF CIVIL SHEET C11.01	
4	BOLLARD	1/L4.01
5	FLAG POLE; 35` [H]; 6" BUTT DIA., 3.5" TOP DIA. 13`-9" TAPER LENGTH; 6`X10` MAX. FLAG SIZE, INSTALLED PER MANUFACTURER`S SPECIFICATIONS; SUBMIT PRODUCT FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT.	
6	6` HEIGHT FENCE - CHAIN LINK	4/L4.01
7	8` HEIGHT FENCE - CHAIN LINK	5/L4.01
8	6` HEIGHT SWING GATE - CHAIN LINK	8/L4.01
9	8` HEIGHT SWING GATE - CHAIN LINK	9/L4.01
10	6` HEIGHT DOUBLE SWING GATE - CHAIN LINK	7/L4.01
11	7` HEIGHT TUBULAR STEEL FENCE	1/L4.02
12	7`[H] X 8`[W] DOUBLE SWING GATE - TUBULAR STEEL	2/L4.02
13	7`[H] X 10`[W] DOUBLE SWING GATE - TUBULAR STEEL	
14	7`[H] X 12`[W] DOUBLE SWING GATE - TUBULAR STEEL	4/L4.02
15	7`[H] X 16`[W] DOUBLE SWING GATE - TUBULAR STEEL	5/L4.02
16	SOFTBALL FIELD LAYOUT - FIELDS 1, 2, AND 3	1/L4.03
17	SOFTBALL FIELD LAYOUT - FIELDS 4, 5, AND 6	1/L4.04
18	SCORE KEEPER`S CANOPY	2/L4.06
19	DUGOUT	4/L4.05
20	DUGOUT AND BULLPEN LAYOUT	5/L4.05
21	SCOREBOARD - FIELDS 4, 5, & 6	1/L4.05
22	BATTING TUNNEL	1/L4.06
23	RESTROOMS/CONCESSION; REF ARCHITECTURE	

ADD ALTERNATES

SYMBOL	DESCRIPTION	DETAIL
24	6` HEIGHT FENCE - CHAIN LINK (ALTERNATE NO.1)	4/L4.01
25	6` HEIGHT DOUBLE SWING GATE - CHAIN LINK (ALTERNATE NO.1)	7/L4.01
26	7` HEIGHT TUBULAR STEEL FENCE (ALTERNATE NO.1)	1/L4.02
27	7`[H] X 24`[W] DOUBLE SWING GATE - TUBULAR STEEL (ALTERNATE NO.1)	6/L4.02
28	CONCRETE PAD FOR MAINTENANCE BUILDING (ALTERNATE NO. 1); REF STRUCTURAL	
29	DUMPSTER ENCLOSURE; DUMPSTER BY OTHERS (ALTERNATE NO.1)	10/L4.01

PLAN LEGEND

P.A. - PLANTING AREA
E.J. - EXPANSION JOINT

REFER TO CIVIL SHEET C8.00 FOR EXPANSION JOINT DETAIL

FENCE LEGEND

- EXISTING FENCE TO REMAIN
- PROPOSED CHAIN LINK FENCE
- PROPOSED TUBULAR STEEL FENCE

REFER TO SHEET L4.03 AND L4.04 FOR FIELD FENCING INFORMATION.

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Revision No.	Date	Description
1	07-26-18	ADDENDUM NO.1

REGISTERED LANDSCAPE ARCHITECT
TIMOTHY W. MAY
1221
STATE OF TEXAS
07/26/2018

100% CONSTRUCTION DOCUMENTS

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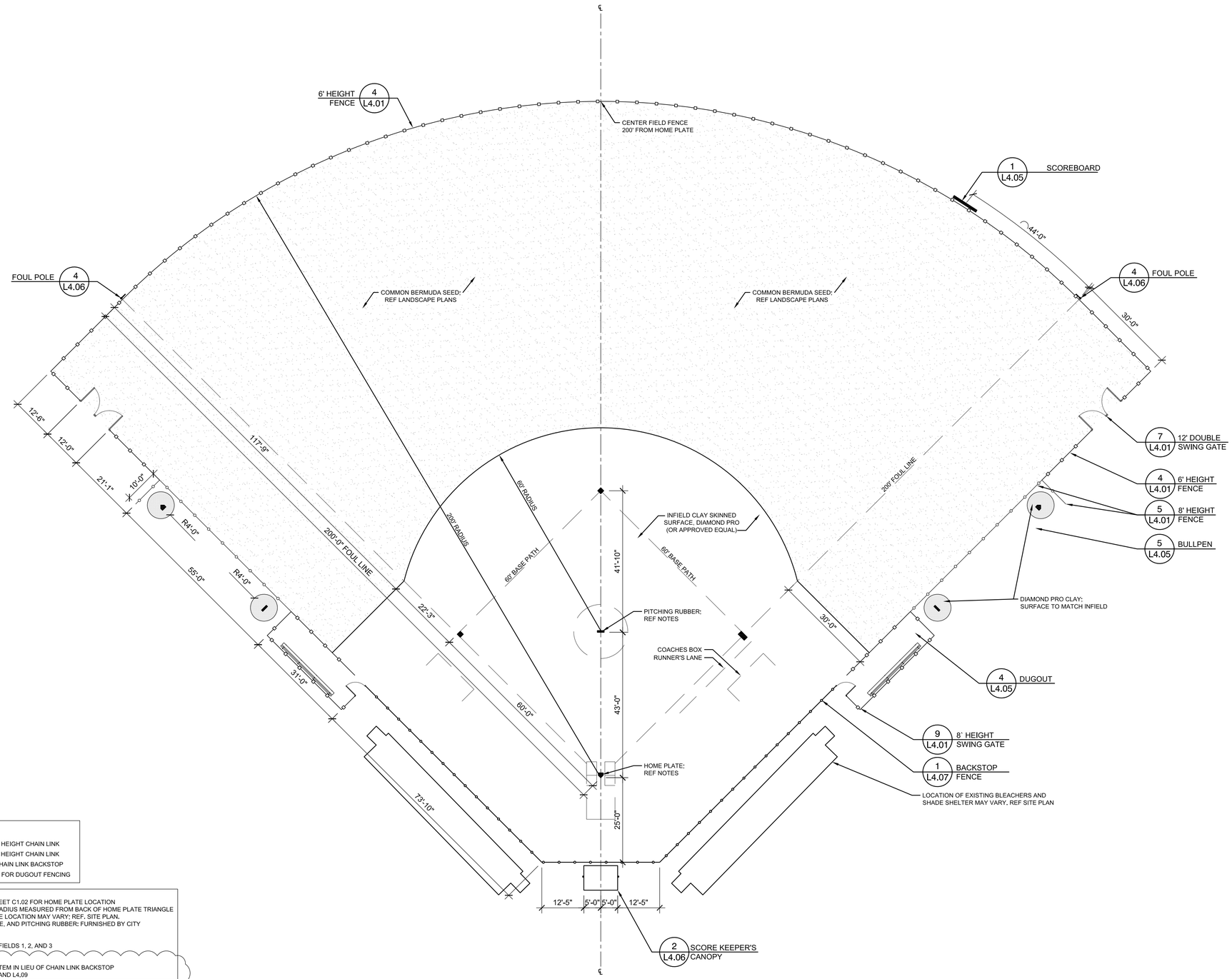
L3.02
Sheet Number



FENCE LEGEND

- 6' HEIGHT CHAIN LINK
- 8' HEIGHT CHAIN LINK
- CHAIN LINK BACKSTOP

REFER TO DETAIL 4/L4.05 FOR DUGOUT FENCING

NOTES:
1. REFER TO CIVIL SHEET C1.02 FOR HOME PLATE LOCATION
2. OUTFIELD FENCE RADIUS MEASURED FROM BACK OF HOME PLATE TRIANGLE
3. MAINTENANCE GATE LOCATION MAY VARY; REF. SITE PLAN.
4. BASES, HOME PLATE, AND PITCHING RUBBER: FURNISHED BY CITY

ALTERNATE NO. 4
NEW SCOREBOARD FOR FIELDS 1, 2, AND 3

1 ALTERNATE NO. 5
BACKSTOP NETTING SYSTEM IN LIEU OF CHAIN LINK BACKSTOP
REFER TO SHEETS L4.08 AND L4.09

1 SOFTBALL FIELD LAYOUT - FIELDS 1, 2, & 3

1/16" = 1'-0"

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Project No.:	33348.001
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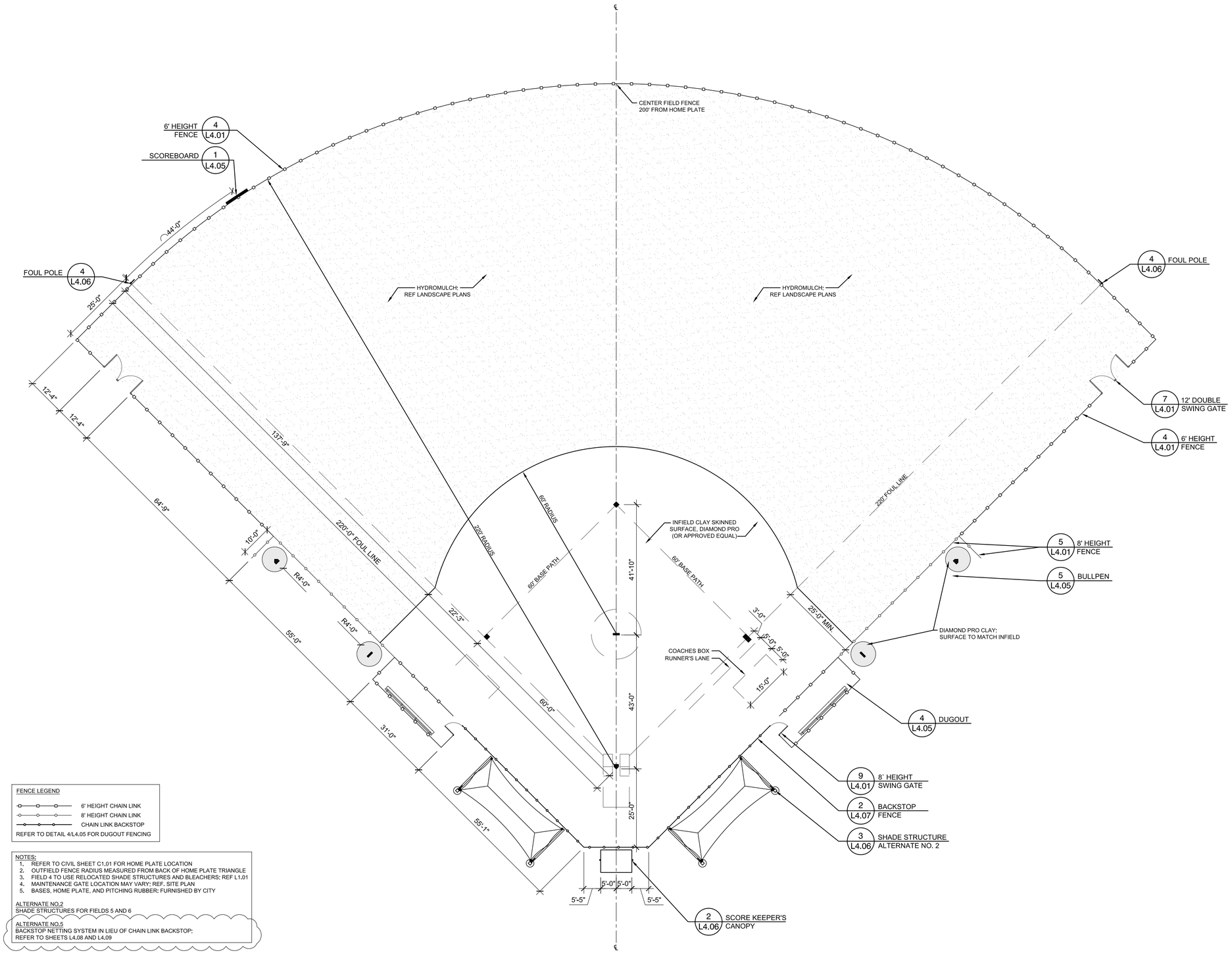
Scale:	AS SHOWN
Sheet Title	SITE DETAILS

L4.03
Sheet Number



FENCE LEGEND

- 6' HEIGHT CHAIN LINK
- 8' HEIGHT CHAIN LINK
- CHAIN LINK BACKSTOP

REFER TO DETAIL 4/L4.05 FOR DUGOUT FENCING

NOTES:
1. REFER TO CIVIL SHEET C1.01 FOR HOME PLATE LOCATION
2. OUTFIELD FENCE RADIUS MEASURED FROM BACK OF HOME PLATE TRIANGLE
3. FIELD 4 TO USE RELOCATED SHADE STRUCTURES AND BLEACHERS; REF L1.01
4. MAINTENANCE GATE LOCATION MAY VARY; REF. SITE PLAN
5. BASES, HOME PLATE, AND PITCHING RUBBER: FURNISHED BY CITY

ALTERNATE NO.2
SHADE STRUCTURES FOR FIELDS 5 AND 6

1 ALTERNATE NO.5
BACKSTOP NETTING SYSTEM IN LIEU OF CHAIN LINK BACKSTOP;
REFER TO SHEETS L4.08 AND L4.09

1 SOFTBALL FIELD LAYOUT - FIELDS 4, 5, & 6

1/16" = 1'-0"

CITY OF McALLEN
SOFTBALL FIELD FACILITIES
MUNICIPAL PARK
McALLEN, TEXAS

McALLEN Parks & Recreation

HALFF
5000 WEST MILITARY HWY, SUITE 100
McALLEN, TX 78503
TEL (956) 682-0286
FAX (956) 684-0282
TBPE FIRM #F-312

Revision No.	Date	Description
1	07-26-18	ADDENDUM NO.1

REGISTERED LANDSCAPE ARCHITECT
TIMOTHY W. MAY
1221
STATE OF TEXAS
07/26/2018

100% CONSTRUCTION DOCUMENTS

Project No.:	33348.001
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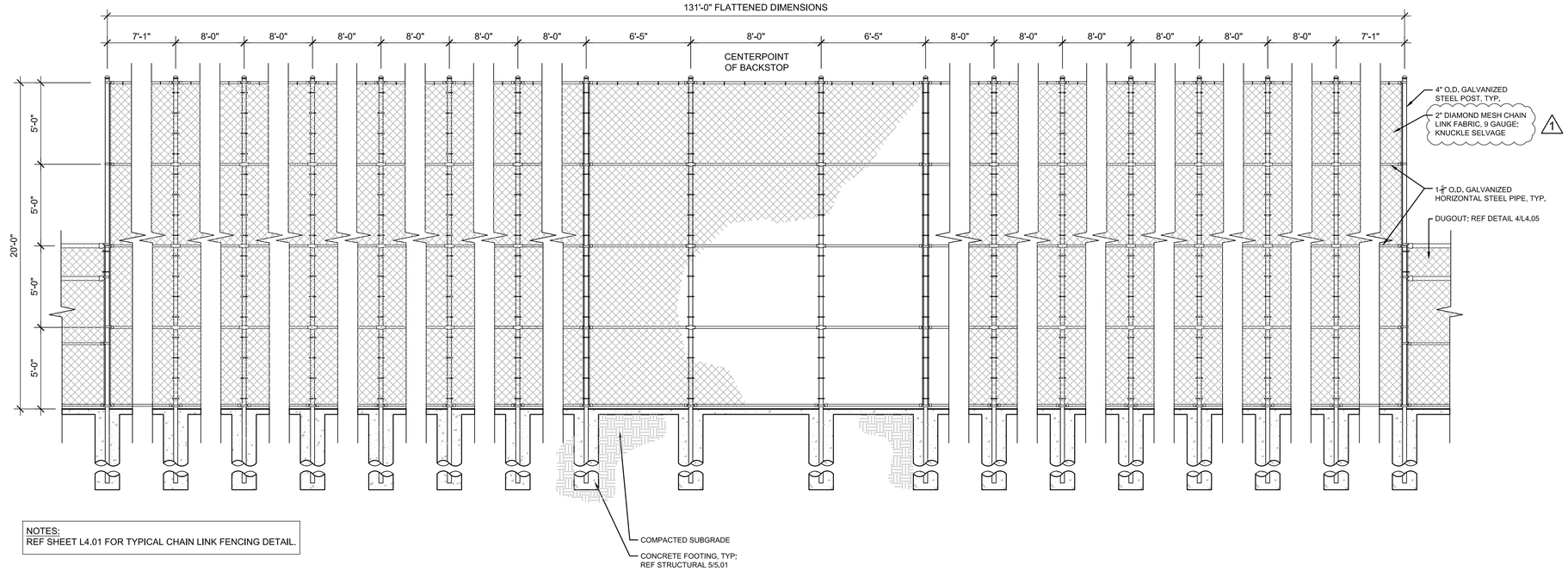
Sheet Title
SITE DETAILS

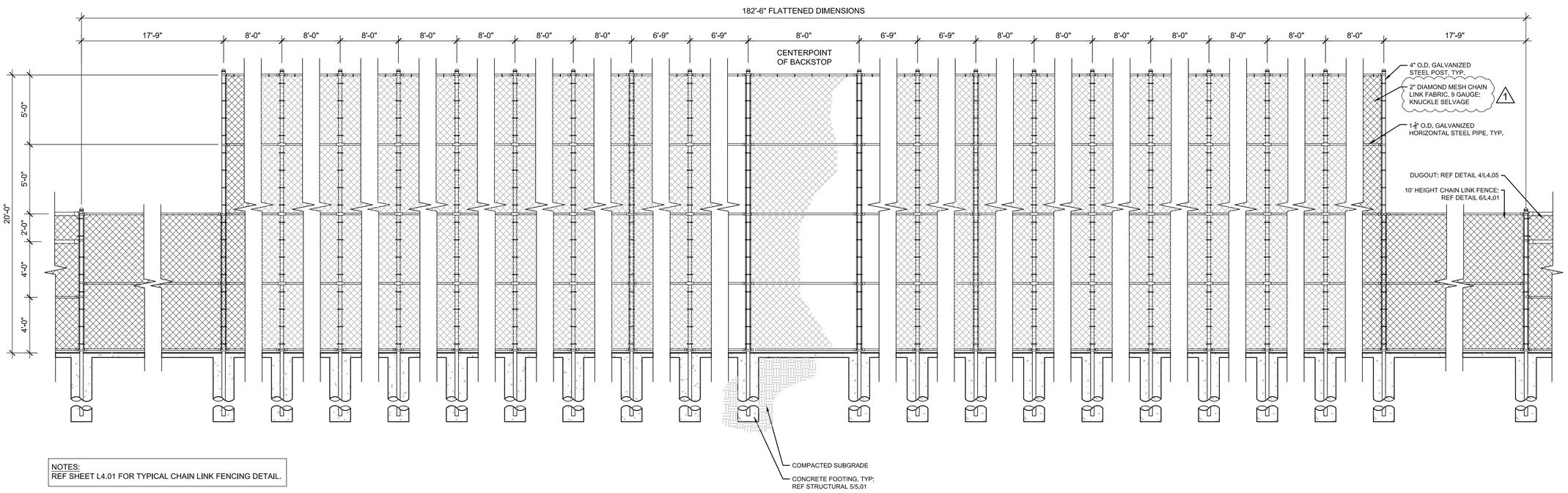
L4.04
Sheet Number



NOTES:
REF SHEET L4.01 FOR TYPICAL CHAIN LINK FENCING DETAIL.

2 BACKSTOP FENCING - FIELDS 4, 5, & 6

1/4" = 1'-0"



NOTES:
REF SHEET L4.01 FOR TYPICAL CHAIN LINK FENCING DETAIL.

1 BACKSTOP FENCING - FIELDS 1, 2, & 3

1/4" = 1'-0"

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TIMOTHY W. MUELLER
1221
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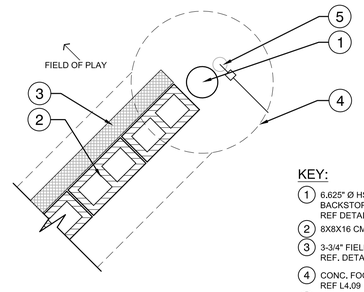
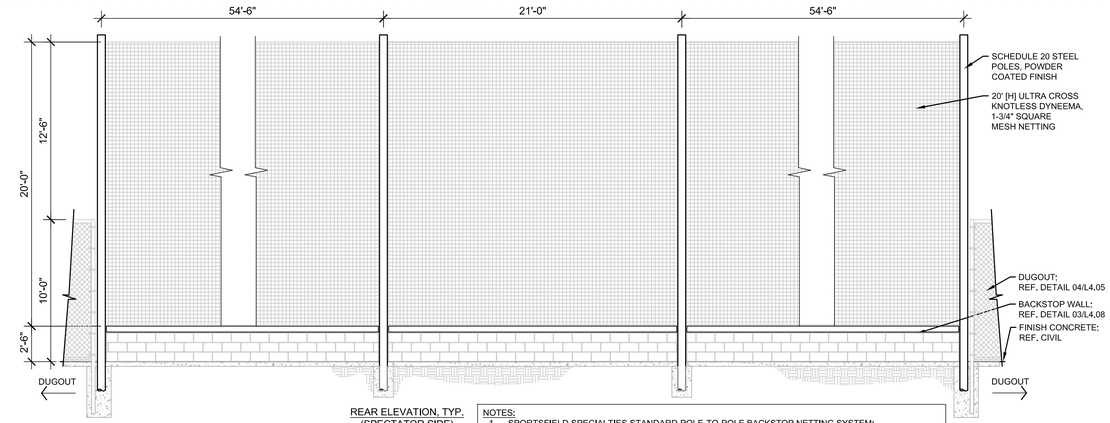


KEY:

1. 6.625" Ø HSS POST TO SUPPORT BACKSTOP CABLE AND NETTING; REF DETAIL 02/L4.08
2. 8X8X16 CMU BLOCK
3. 3-3/4" FIELD WALL PADDING; REF. DETAIL 03/L4.08
4. CONC. FOOTING, TYP.; REF L4.09
5. CHAIN LINK DUGOUT FENCE

05 BACKSTOP WALL AT OUTSIDE CORNER ALTERNATE NO.5

3/4" = 1'-0"



REAR ELEVATION, TYP.
(SPECTATOR SIDE)

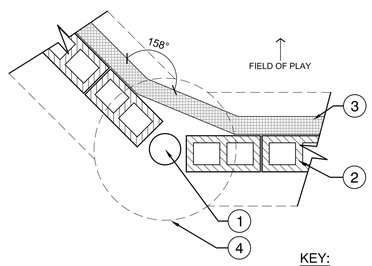
NOTES:

1. SPORTSFIELD SPECIALTIES STANDARD POLE-TO-POLE BACKSTOP NETTING SYSTEM; SPORTSFIELDSPECIALTIES.COM; MODEL NO. TNPPBUC; CONTACT: JJ DARLING, EMAIL: JDARLING@SPORTSFIELDSPECIALTIES.COM; TEL: (210) 241-8196
2. POLE SIZE, PIER, AND FOOTING DEPTH TO BE DETERMINED BY SPORTSFIELD SPECIALTIES; REF L4.09
3. ELEVATION SHOWN REPRESENTS FIELDS 4,5, AND 6, FIELDS 1,2, AND 3 WILL HAVE DIFFERENT POLE TO POLE DIMENSIONS. REF. DETAIL 01/L4.08

02 BACKSTOP NETTING ELEVATION

3/16" = 1'-0"

ALTERNATE NO.5

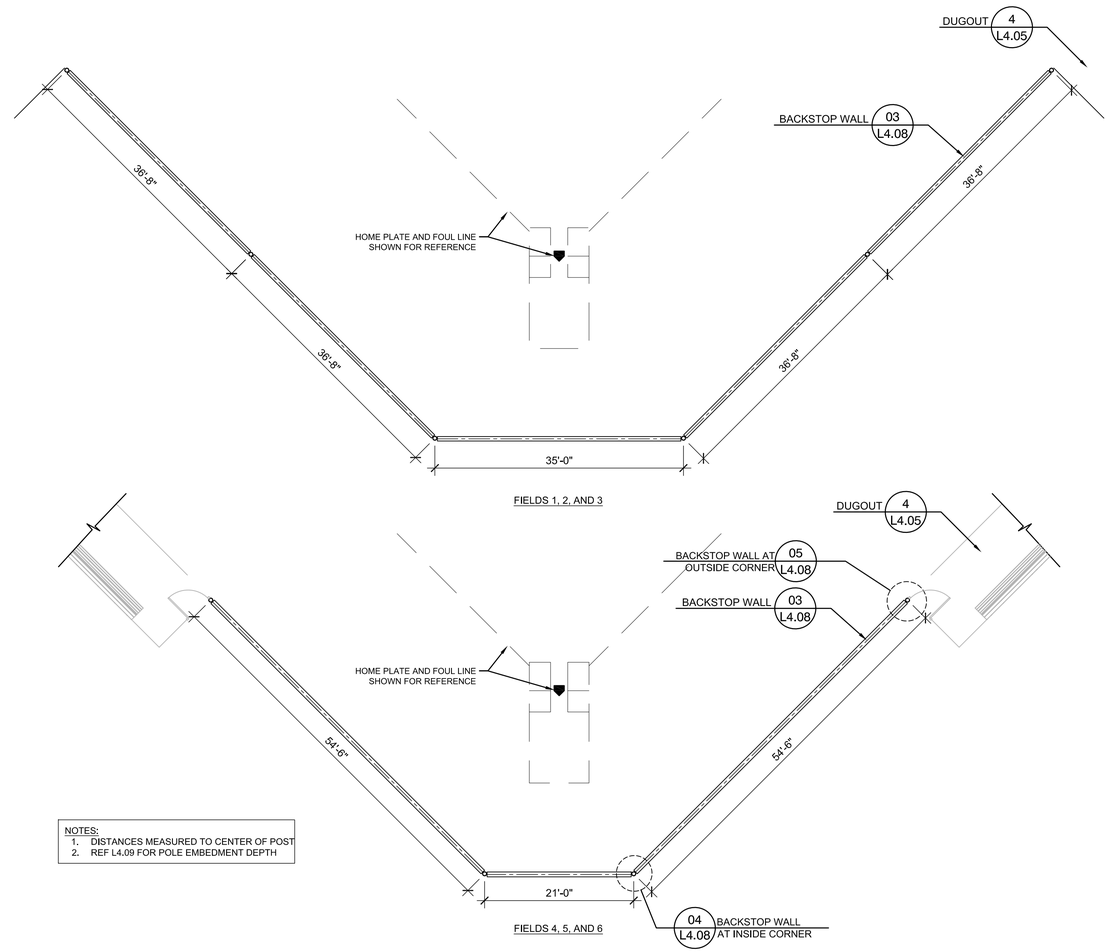


KEY:

1. 6.625" Ø HSS POST TO SUPPORT BACKSTOP CABLE AND NETTING; REF DETAIL 02/L4.08
2. 8X8X16 CMU BLOCK
3. 3-3/4" FIELD WALL PADDING; REF. DETAIL 03/L4.08
4. CONC. FOOTING, TYP.; REF L4.09

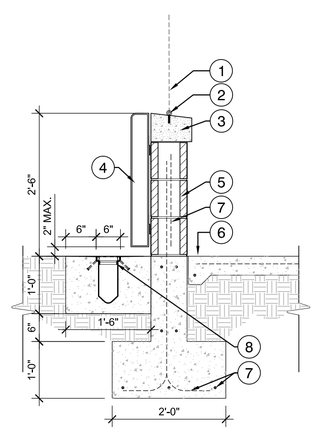
04 BACKSTOP WALL AT INSIDE CORNER ALTERNATE NO.5

3/4" = 1'-0"



NOTES:

1. DISTANCES MEASURED TO CENTER OF POST
2. REF L4.09 FOR POLE EMBEDMENT DEPTH



KEY:

1. BACKSTOP NETTING; REF. DETAIL 02/L4.08
2. STAINLESS STEEL SCREW EYE CABLE STAY
3. PRECAST CONCRETE CAP
4. 3-3/4" FIELD WALL PADDING; SPORTSFIELDSPECIALTIES.COM, MODEL NO. BFWPZ (FWPZHI), Z-CLIP WALL ATTACHMENT BRACKETS
5. 8x8x16 CMU BLOCK
6. CONCRETE FLATWORK AT SPECTATOR; REF. CIVIL
7. #4 REBAR 15" MAX SPACING
8. FRENCH DRAIN; ADD ALTERNATE; REF. CIVIL

NOTES:

1. INSTALL FIELD WALL PADDING AND BACKSTOP NETTING PER MANUFACTURER'S SPECIFICATIONS

03 BACKSTOP WALL

3/4" = 1'-0"

ALTERNATE NO.5

01 BACKSTOP NETTING POST LAYOUT

3/32" = 1'-0"

ALTERNATE NO.5

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Revision		
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1	07-26-18	ADDENDUM NO.1

REGISTERED LANDSCAPE ARCHITECT
TIMOTHY W. MAY
1221
STATE OF TEXAS
07/26/2018

100% CONSTRUCTION DOCUMENTS

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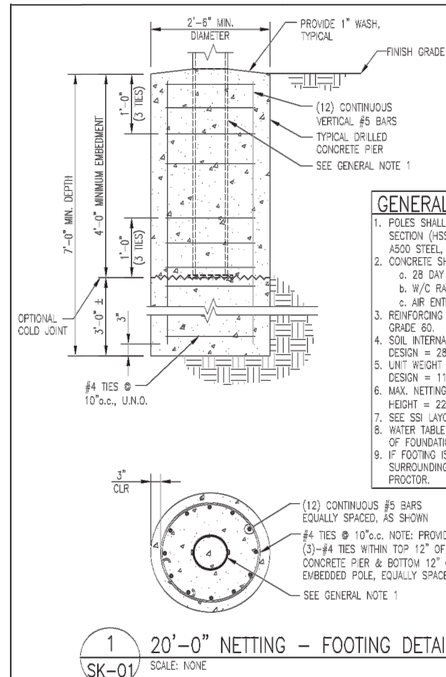

1

SYSTEM NOTES:

1. FOOTING FOR USE WITH ULTRACROSS 1¾" NETTING
2. CABLE SAG (IN FEET) BETWEEN POLES = SPAN/40 MIN.
3. DESIGN WIND SPEED = 122mph
4. EXPOSURE CATEGORY B
5. RISK CATEGORY I

GENERAL NOTES:

1. POLES SHALL BE HOLLOW STRUCTURAL SECTION (HSS) 6.625 x 0.280 MEETING ASTM A500 STEEL, GRADE C, Fy = 46ksi.
2. CONCRETE SHALL MEET THE FOLLOWING:
   a. 28 DAY STRENGTH = 4,000psi (MIN.)
   b. W/C RATIO = 0.46
   c. AIR ENTRAINMENT = 5.5 +/- 1%
3. REINFORCING BAR SHALL MEET ASTM A615, GRADE 60.
4. SOIL INTERNAL ANGLE OF FRICTION USED FOR DESIGN = 28 DEGREES
5. UNIT WEIGHT OF SOIL FOR FOUNDATION DESIGN = 115 PCF
6. MAX. NETTING HEIGHT = 20'-0" (MAX POLE HEIGHT = 22'-6") (2'-6" WALL BY OTHERS)
7. SEE SSI LAYOUT DRAWINGS FOR POLE SPACING
8. WATER TABLE ASSUMED TO BE BELOW BOTTOM OF FOUNDATION FOR FOOTING DESIGN.
9. IF FOOTING IS NOT AUGURED, COMPACT SOIL SURROUNDING FOOTING TO 95% MODIFIED PROCTOR.

JOSEPH MIECZKOWSKI 116363 LICENSED PROFESSIONAL ENGINEER

1 / SK-01 — 20'-0" NETTING – FOOTING DETAILS

SCALE: NONE

04/06/2018

DELTA SPECIALTY PRECAST CONCRETE ENGINEERS
880 Hooper Road
Endwell, New York 13760
Tel: 607.231.8800
Fax: 607.231.8801
Email: mail@deltaengineers.com
Web: www.deltaengineers.com

Project Name: McALLEN SOFTBALL POLE-TO-POLE NETTING SYSTEM — McALLEN, TEXAS

Drawing Title: 20'-0" NETTING FOOTING DETAILS

Scale: AS SHOWN

Project No.: 2018.302.033

Date: APRIL 06, 2018

WARNING: THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER, LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT OR LICENSED SURVEYOR FOR A LICENSED SURVEYOR, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "A" MISDEMEANOR.

Drawing No.: SK-01

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Revision No.	Date	Description
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REGISTERED LANDSCAPE ARCHITECT — TIMOTHY W. MAY — 1221 — STATE OF TEXAS
07/26/2018

100% CONSTRUCTION DOCUMENTS

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L4.09
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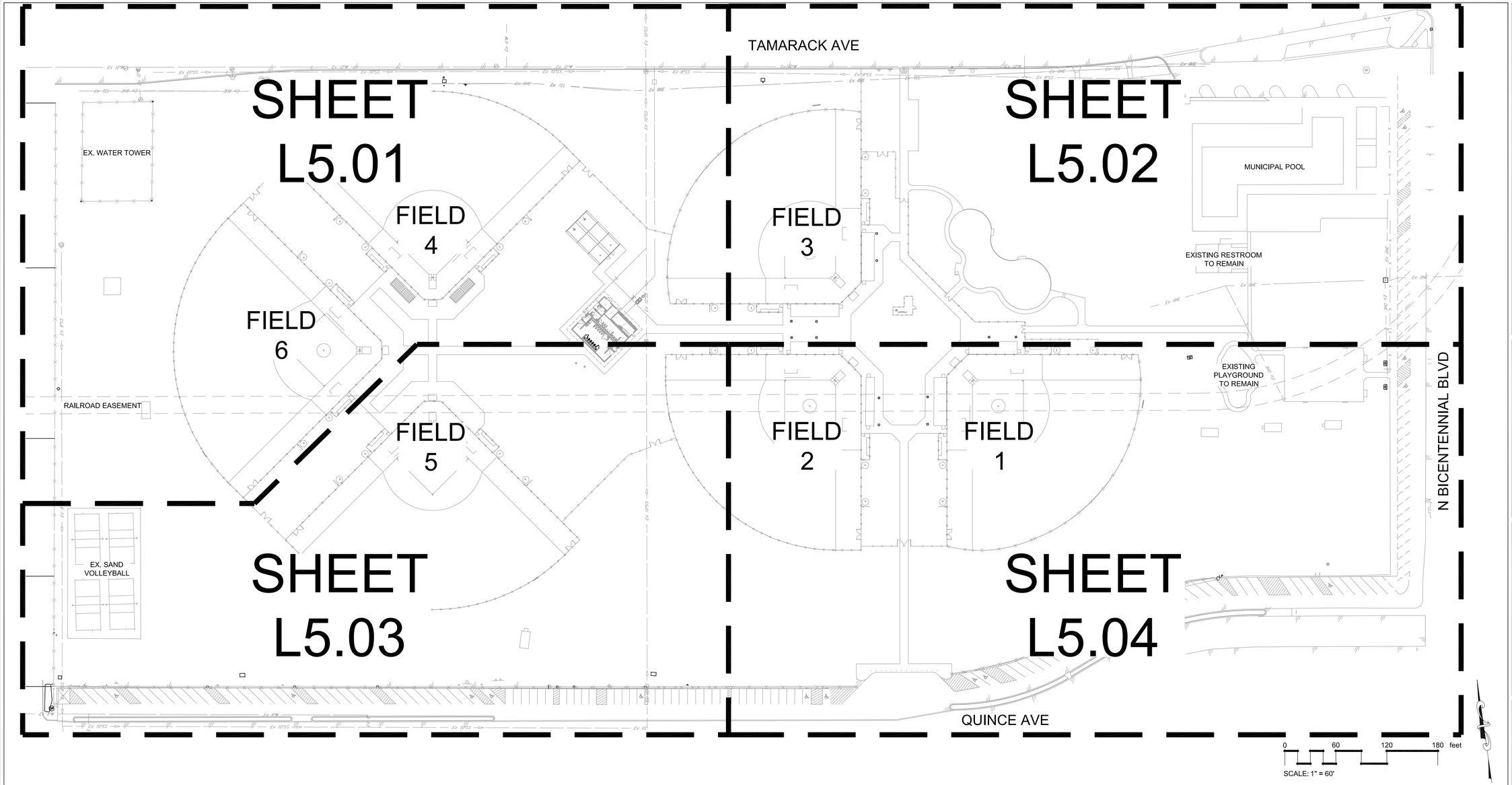

PLANTING NOTES

1. EXISTING CONDITIONS: THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO SUBMITTING BID PROPOSAL, TO BECOME FAMILIAR WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK. THE LANDSCAPE CONTRACTOR SHALL IDENTIFY AND REVIEW ALL UNDERGROUND UTILITY LOCATIONS PRIOR TO COMMENCING WORK AND SHALL EXERCISE EXTREME CAUTION WHEN WORKING CLOSE TO UTILITIES, AND SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF APPARENT CONFLICTS WITH CONSTRUCTION AND UTILITIES SO THAT ADJUSTMENTS CAN BE PLANNED PRIOR TO INSTALLATION. CONTACT THE LOCAL UNDERGROUND UTILITY SERVICES FOR UTILITY LOCATION AND IDENTIFICATION. THE LANDSCAPE CONTRACTOR BEARS FULL RESPONSIBILITY FOR THIS WORK AND DISRUPTION OR DAMAGE TO UTILITIES SHALL BE REPAIRED IMMEDIATELY AT NO EXPENSE TO THE OWNER.

2. ALL SITE FEATURES INCLUDING LIGHTS AND OTHER UTILITIES, ABOVE AND BELOW GRADE,TO BE VERIFIED ON SITE PRIOR TO PLANTING AND IRRIGATION INSTALLATION. NOTIFY OWNER'S REPRESENTATIVE TO MAKE ADJUSTMENTS PRIOR TO INSTALLATION.

3. LAYOUT AND GRADING: THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ACCURATELY LAYING OUT THE TURF AREAS BY SCALING THE DRAWINGS. LAYOUT SHALL BE PAINTED OR STAKED ON THE GROUND FOR REVIEW AND APPROVAL OF OWNER'S REPRESENTATIVE PRIOR TO EXCAVATION. FOLLOWING APPROVAL OF LAYOUT, CLOSELY COORDINATE THE INSTALLATION OF THE IRRIGATION SYSTEM TO CONFORM TO THE APPROVED LAYOUT.

   THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR FINE GRADING OF THE TURF AREAS. THE LANDSCAPE CONTRACTOR AND OWNER SHALL REVIEW THE EXTENT OF GRADING OF AREA PRIOR TO COMMENCING WORK. ENTIRE SITE SHALL BE GRADED TO FINISH GRADE PRIOR TO SCHEDULING PLANTING INSTALLATION.

   TURF AREAS SHALL BE RAKED SMOOTH, REMOVING AND DISPOSING OF STONES OVER 1" DIAMETER AND STICKS, ROOTS, AND OTHER EXTRANEOUS MATTER AND LEGALLY DISPOSING OF THEM OFF OWNER'S PROPERTY. ALL AREAS SHALL BE FINE GRADED TO ACHIEVE POSITIVE DRAINAGE WITHOUT PUDDLES OR STANDING WATER AND FEATHER INTO NATURAL GRADE. ROLL AND RAKE, REMOVE RIDGES, AND FILL DEPRESSIONS TO MEET FINISH GRADES TO WITHIN PLUS OR MINUS 1/2 INCH OF FINISH ELEVATION. LIMIT FINISH GRADING TO AREAS THAT CAN BE PLANTED IN THE IMMEDIATE FUTURE.

   LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION CONTROL OF SLOPED AREAS. CONTRACTOR TO RESTORE TURF OR PLANTING AREAS IF ERODED OR OTHERWISE DISTURBED AFTER FINISH GRADING.

4. TOPSOIL: THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPORTING AND PLACING TOPSOIL TO PREPARE THE TURF AREAS FOR THE SPECIFIED GRASS SOD AND/OR SEEDING. TURF AREAS SHALL RECEIVE A 2" LAYER OF AMENDED TOPSOIL PLACED ON TOP OF THE SUBGRADE MATERIAL. THE LANDSCAPE ARCHITECT, LANDSCAPE CONTRACTOR AND OWNER SHALL REVIEW THE EXTENT OF THIS WORK PRIOR TO COMMENCEMENT OF INSTALLATION. DO NOT SPREAD TOPSOIL IF SOIL OR SUBGRADE IS FROZEN, MUDDY OR EXCESSIVELY WET. TOPSOIL SHALL BE A MIN. OF 2% ORGANIC WITH PH BETWEEN 5.3 - 6.0.

5. FINISH GRADES OF LAWNS SHALL BE 1½" BELOW ADJACENT PAVING OR HEADER.

6. WEED CONTROL TO BE COMPLETED PRIOR TO PREPARING PLANTING AREAS BY APPLICATION OF A 50/50 BLEND OF POST-EMERGENT HUMIC ACID COMPLEX AND ROUNDUP HERBICIDE. APPLY 10 LB OF MICROLIFE HUMATES PLUS PER 1,000 SQ FT TO RESTORE SOIL HEALTH.

7. GRASS SEEDING: LIMITS OF GRASS SEEDING AREAS SHOWN ON THE DRAWINGS ARE SCHEMATIC AND NOT TO BE CONSTRUED TO BE PRECISE. THE LANDSCAPE ARCHITECT, LANDSCAPE CONTRACTOR AND OWNER SHALL REVIEW THE LIMITS OF SEEDING PRIOR TO COMMENCING INSTALLATION. IN BID PROPOSAL, FURNISH UNIT PRICES FOR GRASS SEEDING PER SQUARE YARD. THE CONTRACT AMOUNT WILL BE ADJUSTED BASED ON ACTUAL, APPROVED QUANTITIES INSTALLED.

   THE LANDSCAPE ARCHITECT, LANDSCAPE CONTRACTOR AND OWNER SHALL REVIEW THE LIMITS OF SEEDING PRIOR TO COMMENCING INSTALLATION. LANDSCAPE CONTRACTOR SHALL PROVIDE A UNIFORM STAND OF GRASS BY WATERING AND MAINTAINING SEEDED AREAS UNTIL DATE OF SUBSTANTIAL COMPLETION. RESEED AREAS, WITH SPECIFIED MATERIALS, WHICH FAIL TO PROVIDE A UNIFORM STAND UNTIL OWNER'S REPRESENTATIVE REVIEWS ALL AFFECTED AREAS. REPLACE IMMEDIATELY UNLESS REQUIRED TO SEED IN THE SUCCEEDING PLANTING SEASON. RESTRICT TRAFFIC FROM SEEDED AREAS UNTIL ESTABLISHED. ERECT SIGNS, FLAGGING AND BARRIERS AS REQUIRED. SOW GRASS SEED WHEN SOIL TEMPERATURE IS ABOVE 65 DEGREES F (IN EARLY SPRING THROUGH LATE SUMMER).

8. PROVIDE UNIT PRICES FOR ALL PLANT MATERIALS. UNIT PRICE IS TO INCLUDE COST OF MATERIAL, LABOR AND TAXES AS REQUIRED TO INSTALL THE PLANTS. UNIT PRICES SHALL BE USED IN THE CASE THAT FEWER OR MORE PLANTS ARE TO BE PLANTED.

9. REGULAR CLEAN UP AT THE JOB SITE AND ACCESS ROUTES SHALL TAKE PLACE ON A DAILY BASIS UNLESS OTHERWISE APPROVED OR REQUIRED BY THE OWNER'S REPRESENTATIVE. DEMOLITION AND INSTALLATION SCHEDULING IS TO BE COORDINATED WITH OWNER'S REPRESENTATIVE. DAILY AND ANY BARRIERS/PROTECTIVE DEVICES ARE TO BE INSTALLED AS NEEDED TO PROTECT THE SAFETY OF THE PUBLIC. SPECIAL CARE SHALL BE TAKEN TO KEEP ALL VEHICULAR ROUTES OPEN AND PEDESTRIAN ACCESS UNOBSTRUCTED FOR SAFE PASSAGE DURING DEMOLITION AND CONSTRUCTION.

10. CONTRACTOR TO PROVIDE A NINETY-DAY MAINTENANCE AGREEMENT FOR ALL WORK PERFORMED.

11. WARRANTY: CONTRACTOR TO PROVIDE IN WRITING TO OWNER A GUARANTEE FOR ALL PLANT MATERIAL PROVIDED. PROVIDE A ONE-YEAR REPLACEMENT WARRANTY FOR ALL PLANT MATERIALS. WARRANTY SHALL COVER PLANTS WHICH HAVE DIED OR PARTIALLY DIED (THEREBY RUINING THEIR NATURAL SHAPE), BUT SHALL NOT INCLUDE DAMAGE BY VANDALISM, BROWSING, HAIL, ABNORMAL FREEZES, DROUGHT OR NEGLIGENCE BY THE OWNER. THE WARRANTY IS INTENDED TO COVER CONTRACTOR NEGLIGENCE, INFESTATIONS, DISEASE AND DAMAGE OR SHOCK TO PLANTS. PLANTS REPLACED UNDER WARRANTY WILL BE WARRANTED FOR ONE YEAR FOLLOWING REPLACEMENT.

PLANT SCHEDULE OVERALL

SOD/SEED	QTY	BOTANICAL NAME / COMMON NAME
HYDRO	1 544,592 sf	Cynodon dactylon / Bermuda Grass
SEED	93,077 sf	Cynodon dactylon / Common Bermuda Grass

QUANTITIES SHOWN PER SHEET.

CITY OF McALLEN
SOFTBALL FIELD FACILITIES
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McALLEN, TEXAS

McALLEN Parks & Recreation

HALFF
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REGISTERED LANDSCAPE ARCHITECT
TIMOTHY W. MAY
1221
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07/26/2018

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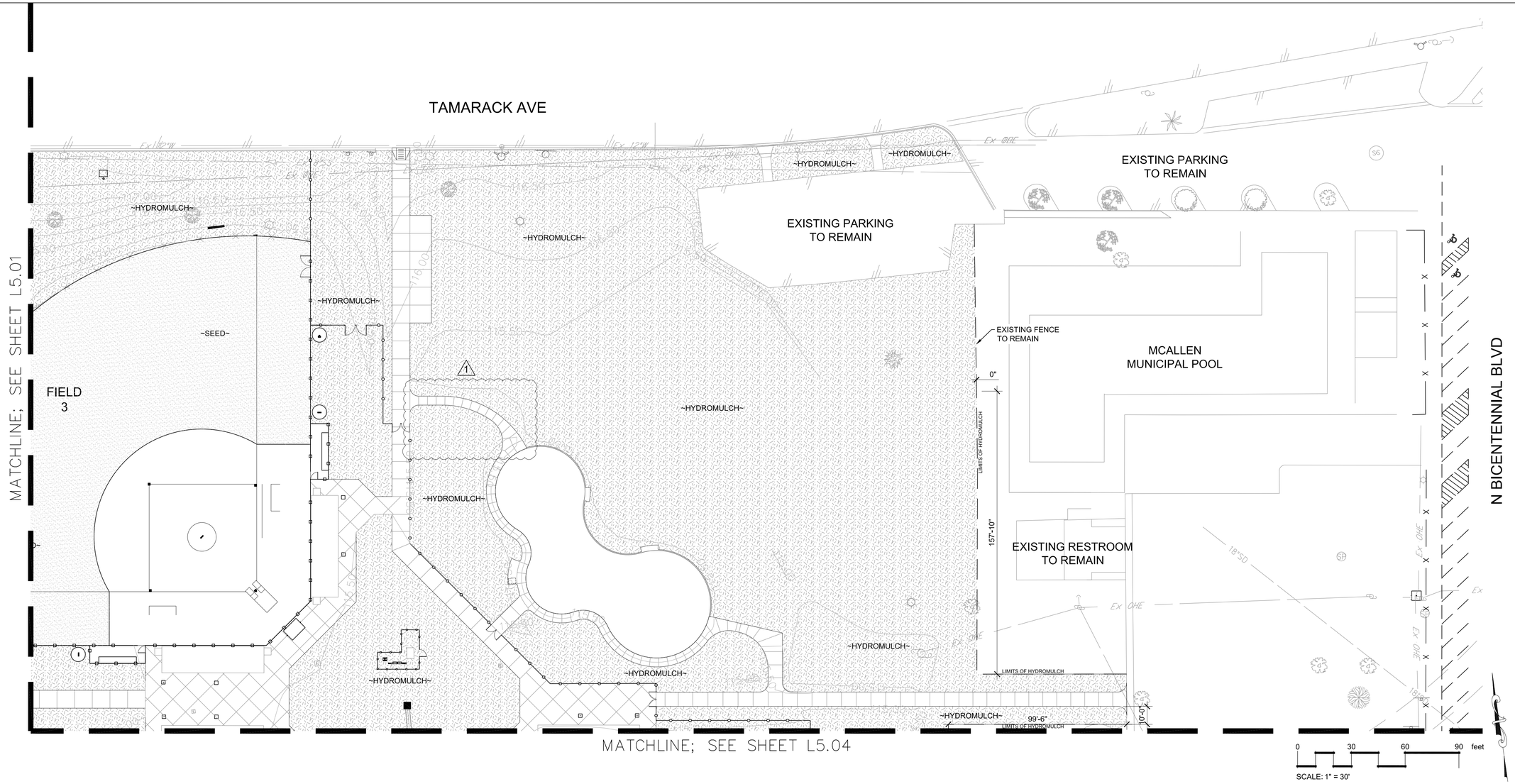
OVERALL PLANTING PLAN & NOTES

L5.00
Sheet Number



PLANT SCHEDULE L5.02

SOD/SEED	QTY	BOTANICAL NAME / COMMON NAME	CONT
HYDRO	1 106,342 sf	Cynodon dactylon / Bermuda Grass	Hydro
SEED	20,861 sf	Cynodon dactylon / Common Bermuda Grass	Seed

QUANTITIES SHOWN PER SHEET.

CITY OF McALLEN
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L5.02
Sheet Number