

MERCEDES SPORTS COMPLEX

COMMUNITY PARK - PHASE - 1

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CLIENT :



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MERCEDES SPORTS PARK - PHASE 1
USA
MERCEDES, TEXAS

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CHECKED BY: SRG

COVER SHEET



CS

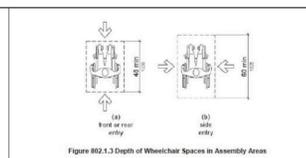


Figure 802.1.3 Depth of Wheelchair Spaces in Assembly Areas

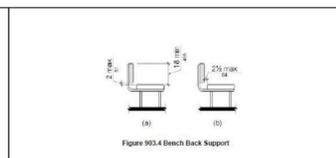


Figure 903.4 Bench Back Support

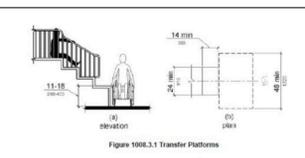


Figure 1008.3.1 Transfer Platforms

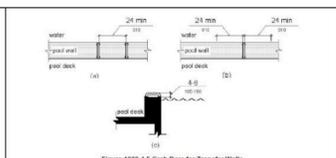


Figure 1009.4.5 Grab Bars for Transfer Walls

Total Spaces Available	Minimum Number of Spaces Required to be Accessible
1 to 200	5 percent, but no fewer than 1
201 and over	10, plus 2 percent of total number of units over 200

Water Closet Category	Agnes 3 and 4	Agnes 5 through 8	Agnes 9 through 12
Water Closet Clear Width	12 inches (305 mm)	12 to 15 inches (305 to 381 mm)	15 to 18 inches (381 to 457 mm)
Toilet Seat Height	11 to 12 inches (280 to 305 mm)	12 to 15 inches (305 to 381 mm)	15 to 17 inches (381 to 430 mm)
Grab Bar Height	18 to 25 inches (457 to 635 mm)	20 to 25 inches (508 to 635 mm)	25 to 27 inches (635 to 686 mm)
Dispenser Height	48 to 55 inches (1219 to 1397 mm)	14 to 17 inches (355 to 430 mm)	17 to 19 inches (430 to 481 mm)

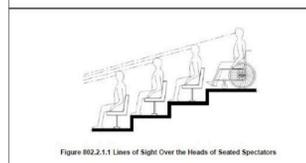


Figure 802.2.1.1 Lines of Sight Over the Heads of Seated Spectators

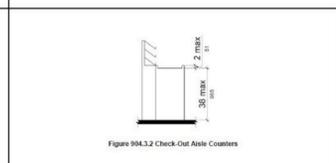


Figure 904.3 Check-Out Aisle Counters

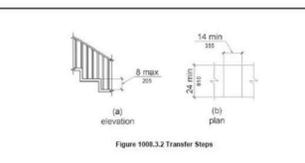


Figure 1008.3.2 Transfer Steps

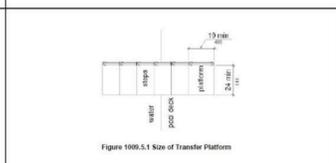


Figure 1009.5.1 Size of Transfer Platform

Number of Check-Out Aisles of Each Function	Minimum Number of Check-Out Aisles of Each Function Required to Comply with 904.3
1 to 4	1
5 to 8	2
9 to 15	3
16 and over	3, plus 20 percent of additional aisles

Measurement Range	Minimum in Inches	Maximum in Inches
Dot base diameter	0.059 (1.5 mm)	0.063 (1.6 mm)
Distance between two dots in the same cell	0.090 (2.3 mm)	0.100 (2.5 mm)
Distance between corresponding dots in adjacent cells	0.241 (6.1 mm)	0.300 (7.6 mm)
Dot height	0.025 (0.6 mm)	0.037 (0.9 mm)
Distance between corresponding dots from one cell directly below	0.391 (10.0 mm)	0.400 (10.2 mm)

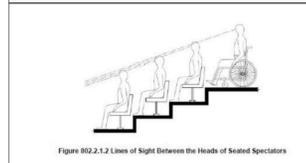


Figure 802.2.1.2 Lines of Sight Between the Heads of Seated Spectators

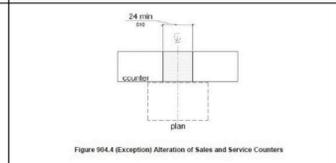


Figure 904.4 (Exception) Alteration of Sales and Service Counters

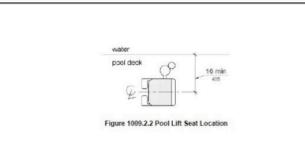


Figure 1009.2.2 Pool Lift Seat Location

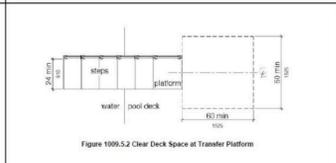


Figure 1009.5.2 Clear Deck Space at Transfer Platforms

Total Number of Boat Slips Provided in Facility	Minimum Number of Required Accessible Boat Slips
1 to 25	1
26 to 50	2
51 to 100	3
101 to 150	4
151 to 200	5
201 to 300	6
301 to 400	7
401 to 500	8
501 to 600	9
601 to 700	10
701 to 800	11
801 to 900	12
901 to 1000	12, plus 1 for every 100, or fraction thereof, over 1000
1001 and over	12, plus 1 for every 100, or fraction thereof, over 1000

Height to Finish Floor or Ground From Baseline of Character	Horizontal Viewing Distance	Minimum Character Height
40 inches (1016 mm) or less	less than 72 inches (1829 mm)	5/8 inch (16 mm)
41 to 48 inches (1041 to 1219 mm)	72 inches (1829 mm) or greater	3/4 inch (19 mm), plus 1/8 inch (3.2 mm) per foot (305 mm) of viewing distance above 72 inches (1829 mm) and greater
49 to 70 inches (1245 to 1778 mm)	180 inches (4570 mm) or greater	3 inches (76 mm)
71 to 120 inches (1803 to 3048 mm)	less than 21 feet (6400 mm)	3 inches (76 mm), plus 1/8 inch (3.2 mm) per foot (305 mm) of viewing distance above 21 feet (6400 mm)
Greater than 120 inches (3048 mm)	21 feet (6400 mm) and greater	3 inches (76 mm), plus 1/8 inch (3.2 mm) per foot (305 mm) of viewing distance above 21 feet (6400 mm)

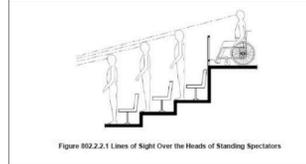


Figure 802.2.1.2 Lines of Sight Between the Heads of Standing Spectators

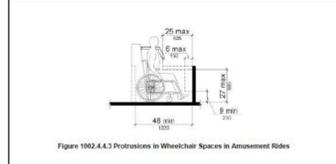


Figure 1002.4.3 Protrusions in Wheelchair Spaces in Amusement Rides

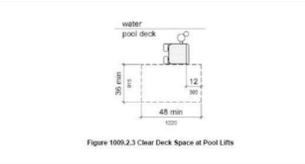


Figure 1009.2.3 Clear Deck Space at Pool Lifts

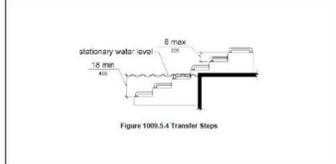


Figure 1009.5.4 Transfer Steps

Total Number of Parking Spaces Provided in Parking Facility	Minimum Number of Required Accessible Parking Spaces
1 to 25	1
26 to 50	2
51 to 75	3
76 to 100	4
101 to 150	5
151 to 200	6
201 to 300	7
301 to 400	8
401 to 500	9
501 to 1000	2 percent of total
1001 and over	20, plus 1 for each 100, or fraction thereof, over 1000

Number of Elevated Play Components Provided	Minimum Number of Ground Level Play Components Required to be on an Accessible Route	Minimum Number of Different Types of Ground Level Play Components Required to be on an Accessible Route
2 to 4	2	2
5 to 10	3	3
11 to 15	4	4
16 to 20	5	5
21 to 25	6	6
26 to 30	7	7
31 to 35	8	8
36 to 40	9	9
41 to 50	10	10
51 to 100	2 percent of total	2 percent of total
1001 and over	20, plus 1 for each 100, or fraction thereof, over 1000	20, plus 1 for each 100, or fraction thereof, over 1000

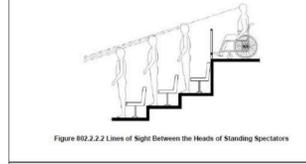


Figure 802.2.2.1 Lines of Sight Between the Heads of Standing Spectators

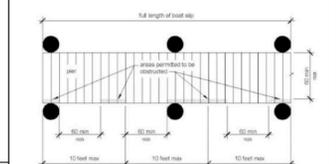


Figure 1003.1 Boat Slip Clearance

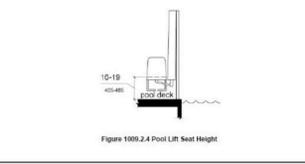


Figure 1009.2.4 Pool Lift Seat Height

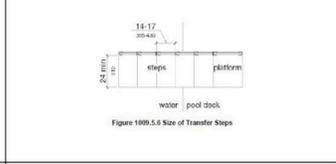


Figure 1009.5.5 Size of Transfer Steps

Number of Elevated Play Components Provided	Minimum Number of Ground Level Play Components Required to be on an Accessible Route	Minimum Number of Different Types of Ground Level Play Components Required to be on an Accessible Route
2 to 4	2	2
5 to 10	3	3
11 to 15	4	4
16 to 20	5	5
21 to 25	6	6
26 to 30	7	7
31 to 35	8	8
36 to 40	9	9
41 to 50	10	10
51 to 100	2 percent of total	2 percent of total
1001 and over	20, plus 1 for each 100, or fraction thereof, over 1000	20, plus 1 for each 100, or fraction thereof, over 1000

Number of Elevated Play Components Provided	Minimum Number of Ground Level Play Components Required to be on an Accessible Route	Minimum Number of Different Types of Ground Level Play Components Required to be on an Accessible Route
2 to 4	2	2
5 to 10	3	3
11 to 15	4	4
16 to 20	5	5
21 to 25	6	6
26 to 30	7	7
31 to 35	8	8
36 to 40	9	9
41 to 50	10	10
51 to 100	2 percent of total	2 percent of total
1001 and over	20, plus 1 for each 100, or fraction thereof, over 1000	20, plus 1 for each 100, or fraction thereof, over 1000



Figure 804.2.1 Pass Through Kitchens

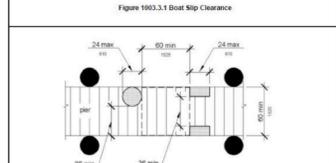


Figure 1003.1 (Exception 1) Clear Pier Space Reduction at Boat Slips

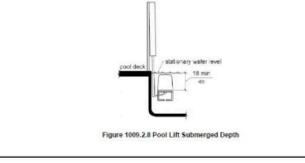


Figure 1009.2.8 Pool Lift Submerged Depth

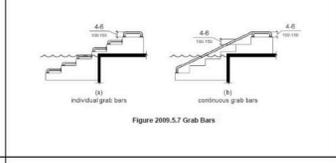


Figure 208.5.7 Grab Bars

Number of Telephones Provided	Minimum Number of Required Wheelchair Accessible Telephones
1 or more single units	1 per floor, level, and exterior site
1 bank	1 per floor, level, and exterior site
2 or more banks	1 per bank

Number of Elevated Play Components Provided	Minimum Number of Ground Level Play Components Required to be on an Accessible Route	Minimum Number of Different Types of Ground Level Play Components Required to be on an Accessible Route
2 to 4	2	2
5 to 10	3	3
11 to 15	4	4
16 to 20	5	5
21 to 25	6	6
26 to 30	7	7
31 to 35	8	8
36 to 40	9	9
41 to 50	10	10
51 to 100	2 percent of total	2 percent of total
1001 and over	20, plus 1 for each 100, or fraction thereof, over 1000	20, plus 1 for each 100, or fraction thereof, over 1000



Figure 1003.1 (Exception 2) Edge Protection at Boat Slips

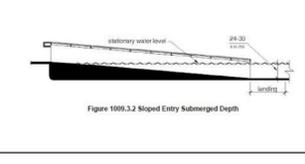


Figure 1009.3.3 Sloped Entry Submerged Depth



Figure 208.5.7 Grab Bars

Number of Elevated Play Components Provided	Minimum Number of Ground Level Play Components Required to be on an Accessible Route	Minimum Number of Different Types of Ground Level Play Components Required to be on an Accessible Route
2 to 4	2	2
5 to 10	3	3
11 to 15	4	4
16 to 20	5	5
21 to 25	6	6
26 to 30	7	7
31 to 35	8	8
36 to 40	9	9
41 to 50	10	10
51 to 100	2 percent of total	2 percent of total
1001 and over	20, plus 1 for each 100, or fraction thereof, over 1000	20, plus 1 for each 100, or fraction thereof, over 1000

Number of Elevated Play Components Provided	Minimum Number of Ground Level Play Components Required to be on an Accessible Route	Minimum Number of Different Types of Ground Level Play Components Required to be on an Accessible Route
2 to 4	2	2
5 to 10	3	3
11 to 15	4	4
16 to 20	5	5
21 to 25	6	6
26 to 30	7	7
31 to 35	8	8
36 to 40	9	9
41 to 50	10	10
51 to 100	2 percent of total	2 percent of total
1001 and over	20, plus 1 for each 100, or fraction thereof, over 1000	20, plus 1 for each 100, or fraction thereof, over 1000



Figure 804.2.2 U-Shaped Kitchens

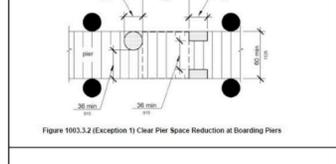


Figure 1003.3.1 Clear Pier Space Reduction at Boarding Piers

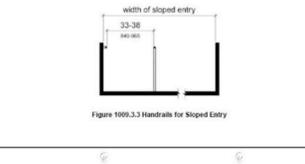


Figure 1009.3.3 Handrails for Sloped Entry

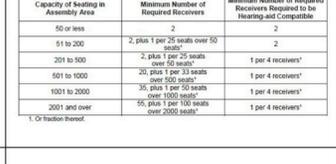


Figure 219.2 Receivers for Assistive Listening Systems

Number of Elevated Play Components Provided	Minimum Number of Ground Level Play Components Required to be on an Accessible Route	Minimum Number of Different Types of Ground Level Play Components Required to be on an Accessible Route
2 to 4	2	2
5 to 10	3	3
11 to 15	4	4
16 to 20	5	5
21 to 25	6	6
26 to 30	7	7
31 to 35	8	8
36 to 40	9	9
41 to 50	10	10
51 to 100	2 percent of total	2 percent of total
1001 and over	20, plus 1 for each 100, or fraction thereof, over 1000	20, plus 1 for each 100, or fraction thereof, over 1000

Number of Elevated Play Components Provided	Minimum Number of Ground Level Play Components Required to be on an Accessible Route	Minimum Number of Different Types of Ground Level Play Components Required to be on an Accessible Route
2 to 4	2	2
5 to 10	3	3
11 to 15	4	4
16 to 20	5	5
21 to 25	6	6
26 to 30	7	7
31 to 35	8	8
36 to 40	9	9
41 to 50	10	10
51 to 100	2 percent of total	2 percent of total
1001 and over	20, plus 1 for each 100, or fraction thereof, over 1000	20, plus 1 for each 100, or fraction thereof, over 1000



Figure 809.2.2 Dimensions of Bus Boarding and Alighting Areas

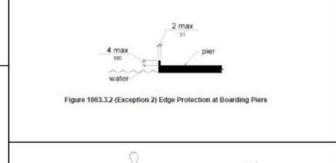


Figure 1009.3.3 (Exception 2) Edge Protection at Boarding Piers

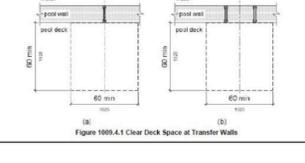


Figure 1009.4.1 Clear Deck Space at Transfer Walls



Figure 1009.4.2 Transfer Wall Height

Number of Seats	Minimum Number of Required Wheelchair Spaces
4 to 25	1
26 to 50	2
51 to 100	4
101 to 500	5
501 to 1000	6, plus 1 for each 100, or fraction thereof, between 501 and 1000
1001 and over	35, plus 1 for each 200, or fraction thereof, over 1000

Number of Elevated Play

PROJECT DESCRIPTION

AMENITIES FOR PUBLIC PARKS AT MERCEDES SPORTS PARK IN MERCEDES, TEXAS :

1. PUBLIC RESTROOM FACILITIES (SHEETS A1.01)
2. OPEN-AIR COVERED PAVILION WITH BASKETBALL COURT(SHEET A1.02)
3. SOCCER FIELD (SHEET L2)
4. PLAYGROUND AREA AND SITE DETAILS (SHEET L2)
5. OPEN-AIR COVERED PICNIC TABLE STRUCTURES. (SHEET L2)
6. LOOP BIKE RACKS (SHEET L2)

ALL ELEMENTS SHALL BE NEW CONSTRUCTION - LOCATED WITHIN THE CONFINES OF THE PUBLIC PARKS THAT ARE BEING BUILT. PARKING REQUIREMENTS FOR PARK SHALL BE DETERMINED BY LANDSCAPE ARCHITECT IN CHARGE OF PROJECT AND CITY OF MERCEDES.

CODE ANALYSIS:

APPLICABLE BUILDING CODE: **2012 INTERNATIONAL BUILDING CODE**

1. USE AND OCCUPANCY CLASSIFICATION
 - A. SECTION 312 - UTILITY AND MISCELLANEOUS GROUP U
2. GENERAL BUILDING HEIGHTS AND AREAS
 - A. TABLE 503 - ALLOWABLE HT. AND BUILDING AREAS (CONST TYPE II-B)
 - I. U (55 FEET HIGH / 2 STORIES / 8,500 SQ. FT.)
3. TYPE OF CONSTRUCTION
 - A. SECTION 602 - CONSTRUCTION CLASSIFICATION: TYPE II-B
4. MEANS OF EGRESS
 - A. NOT APPLICABLE - ALL BUILDINGS ARE OPEN AIR

GENERAL NOTES

1. THE CONTRACTOR SHALL PROTECT AREA AND NEW OR EXISTING MATERIALS AND FINISHES FROM DAMAGE, WHICH MAY OCCUR FROM CONSTRUCTION, TRANSPORT, DUST, WATER, ETC. ANS SHALL PROVIDE AND MAINTAIN TEMPORARY BARRICADES, CLOSURE WALLS, ETC., AS REQUIRED, TO PROTECT THE PUBLIC/ADJACENT AREAS DURING THE PERIOD OF CONSTRUCTION.
2. DAMAGE TO NEW AND EXISTING MATERIALS, FINISHES, STRUCTURES AND EQUIPMENT SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER, AT THE EXPENSE OF THE GENERAL CONTRACTOR.
3. MATERIALS SPECIFIED BY THEIR BRAND NAMES ARE TO ESTABLISH STANDARD OF QUALITY AND PERFORMANCE. ANY REQUEST FOR SUBSTITUTION SHALL BE SUBMITTED TO ARCHITECT FOR REVIEW FOR EQUAL QUALITY AND PERFORMANCE AND SHALL NOT BE PURCHASED OR INSTALLED WITHOUT HIS WRITTEN APPROVAL.
4. WORK LISTED, SHOWN OR IMPLIED ON ANY CONSTRUCTION DOCUMENTS SHALL BE SUPPLIED AND INSTALLED BY THE GENERAL CONTRACTOR, EXCEPT WHERE OTHERWISE NOTED. THE GENERAL CONTRACTOR SHALL CLOSELY COORDINATE HIS WORK WITH THAT OF OTHER CONTRACTORS OR VENDORS TO ASSURE THAT ALL SCHEDULES ARE MET AND THAT ALL WORK IS DONE IN CONFORMANCE TO MANUFACTURER'S REQUIREMENTS.
5. THE CONTRACTOR SHALL MAINTAIN A CURRENT AND COMPLETE SET OF CONSTRUCTION DOCUMENTS ON THE JOB SITE DURNING ALL PHASES OF CONSTRUCTION FOR USE OF ALL TRADES AND SHALL PROVIDE ALL SUBCONTRACTORS WITH CURRENT CONSTRUCTION DOCUMENTS AS REQUIRED.
6. THE CONTRACTOR SHALL REMOVE ALL RUBBISH AND WASTE MATERIALS ON A REGULAR BASIS AND SHALL EXERCISE STRICT CONTROL OVER JOB CLEANING TO PREVENT ANY DIR, DEBRIS, OR DUST FROM AFFECTING. IN ANY WAY, FINISHED AREAS IN OR OUTSIDE JOBSITE. THE BUILDING REFUSE FACILITIES SHALL NOT BE USED FOR THIS PURPOSE.
7. CONTRACTOR SHALL COORDINATE ALL WORK WITH MECHANICAL, ELECTRICAL, PLUMBING, AND OTHER SUB-TRADES AND REPORT TO ARCHITECT ANY DISCREPANCIES FOR CORRECTION OR ADJUSTMENT. NO ALLOWANCE WILL BE MADE FOR INCREASED COST INCURRED DUE TO LACK OF PROPER COORDINATION.
8. THE CONTRACTOR, OR SUBCONTRACTORS, SHALL SECURE AND PAY FOR ALL PERMITS, GOVERNMENTAL FEES, AND LICENSES REQUIRED FOR PROPER COMPLETION OF THE WORK. THE CONTRACTOR SHALL REQUEST ALL INSPECTIONS REQUIRED BY LOCAL GOVERNMENTAL AGENCIES AND COORDINATE HIS WORK WITH SUCH.
9. THE GENERAL CONTRACTOR SHALL SUBMIT ONE (1) COPY OF ALL MANUFACTURER'S WARRANTIES AND OPERATIONS/MAINTENANCE INSTRUCTIONS TO THE OWNER.
10. FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING THE WORK. SHOULD THE CONTRACTOR FIND, AFTER THE VISIT TO THE SITE OR DURING CONSTRUCTION, ANY DISCREPANCIES, OMISSIONS, AMBIGUITIES, OR CONFLICTS IN OR AMONG THE DRAWINGS, OR BE IN DOUBT AS TO THEIR MEANING, HE/SHE SHOULD IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING BEFORE PROCEEDING.
11. NOT USED
12. GROUNDS/BLOCKING MAY NOT BE WHOLLY SHOWN ON DRAWINGS AND GOOD CONSTRUCTION PRACTICE SHALL GOVERN/DETERMINE SAID USE WHEN A QUESTION ARISES.
13. THE GENERAL CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO ALL LOCATIONS OF DRY WALL PARTITION COSTRUCTION THAT ABUTT OR RECEIVE MILLWORK OR CABINETRY.
14. ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY LESS THAN 8 INCHES FROM THE GROUND SHALL BE PRESSURE TREATED OR REDWOOD.
15. ISOLATE DISSIMILAR METALS SO THEY ARE NOT IN CONTACT WITH EACH OTHER TO PREVENT/AVOID ELECTROLYTIC REACTION.
16. CONTRACTOR SHALL COMPLY WITH CURRENT APPLICABLE LOCAL ORDINANCES FOR UTILITY SERVICES.
17. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND UTILITIES. WHERE ENCOUNTERED, CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS FOR SUPPORT, SHORE-UP, REROUTE OR UTILITY DISCONNECTIONS AS REQUIRED BY APPLICABLE LOCAL OR PRIVATE UTILITY COMPANIES.
18. THE CONTRACTOR SHALL VERIFY ALL ELECTRICAL AND PLUMBING ROUGH-IN LOCATIONS FOR ANY SPECIAL EQUIPMENT WITH THE SUPPLIER OF SUCH EQUIPMENT.
19. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF THEIR SEPARATE CONTRACTORS AT BUILDING PENETRATIONS SUCH AS WINDOW DOORS, VENTS, LOUVERS, ETC.
20. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION AND REQUIRED CLEARANCES OF THE EQUIPMENT, NOT STRUCTURAL MEMBER SHALL BE OMITTED, NOTCHED OUT, BLOCKED OUT, OR RELOCATED WITHOUT PRIOR APPROVAL BY THE ARCHITECT OR ENGINEER.

21. WINDOWS AND DOOR LIGHTS WITHIN 40" OF THE LOCKING DEVICE SHALL BE FULLY TEMPERED.
22. THE ELECTRIC SUBCONTRACTOR SHALL FURNISH AND INSTALL EXIT LIGHTS IN ACCORDANCE WITH THE PREVAILING BUILDING AND FIRE CODES.
23. ALL PRODUCTS AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS/SPECIFICATIONS UNLESS SPECIFIED OTHERWISE.
24. MATERIALS, EQUIPMENT, AND CRAFTSMANSHIP OF ALL TRADES SHALL CONFORM TO RECOGNIZED ASTM OF QUALITY APPROPRIATE TO GRADE OF SAID MATERIALS, EQUIPMENT, AND CRAFTSMANSHIP.
25. MATERIALS AND EQUIPMENT SHALL BE NEW, SOUND, OF HIGH QUALITY, AND SUITABLE FOR APPLICATIONS SPECIFIED.
26. MATERIALS SHALL BE POSITIONED IN AN ORDERLY MANNER AND SHALL BE ALIGNED WITH THE BUILDING STRUCTURE. VERTICAL MEMBERS/SURFACES SHALL BE PLUMB. HORIZONTAL MEMBERS/SURFACES SHALL BE LEVEL AND ALL SURFACES TRUE TO PLANES SPECIFIED.
27. CRAFTSMANSHIP SHALL BE NEAT, CLEAN, AND TRUE TO LINE AND DIMENSION. FINISH MATERIALS SHALL BE FREE OF TOOL MARKS, FLAWS AND BLEMISHES. JOINERY AND CONNECTIONS SHALL BE ACCURATE, CLOSE/TIGHT FITTING AND WELL CRAFTED. TOLERANCES RECOGNIZED BY NATIONAL TRADE ASSOCIATIONS WILL BE THE MINIMUM ACCEPTABLE STANDARD FOR RESPECTIVE TRADE WORK.
28. CEILING PLANE SHALL BE LEVEL AND TRUE AND IN ALIGNMENT WITH ALL LIGHTING, SPRINKLER, HVAC, AND OTHER ELEMENTS INCORPORATED THEREIN.
29. MECHANICAL, HVAC, AND PLUMBING ELEMENTS SHALL AT NO TIME COME IN CONTACT WITH CEILING CONSTRUCTION EXCEPT AS NECESSARY PENETRATIONS MAY REQUIRE.
30. MATERIALS, EQUIPMENT, AND/OR CONSTRUCTIVE SERVICES NOT INDICATED IN DRAWINGS OR SPECIFIED HEREIN, BUT REQUIRED FOR SUCCESSFUL AND EFFICIENT COMPLETION OF THE INSTALLATION SHALL BE CONSIDERED IMPLIED IN THE DOCUMENTS. CONTENTS AND SAID MATERIAL, EQUIPMENT, AND/OR CONSTRUCTIVE SERVICES SHALL BE FURNISHED AND INSTALLED AT NO ADDITIONAL COST TO THE OWNER.
31. WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS OR LEVEL OF CRAFTSMANSHIP, SUCH STANDARDS SHALL BE MAINTAINED PER THE LATEST ADDITION AND/OR ADDENDUM.
32. ANY OMISSIONS OR CONFLICTS WITHIN THE DRAWINGS, NOTES, OR DETAILS SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH WORK.
33. WHERE SPECIFIC INSTRUCTIONS REQUIRE THAT A PARTICULAR PRODUCT OR MATERIAL BE INSTALLED BY MANUFACTURER OR PER MANUFACTURER'S INSTRUCTIONS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ANY SUBCONTRACTORS ARE APPROVED APPLICATORS AND THAT INSTALLERS FOLLOW THE MANUFACTURER'S INSTRUCTIONS.
34. DETAILS SHOWN SHALL BE INCORPORATED INTO CONSTRUCTION AT ALL APPROPRIATE LOCATIONS WHETHER SPECIFICALLY CALLED OUT/IDENTIFIED OR NOT.
35. TYPICAL DETAILS SHALL APPLY IN GENERAL CONSTRUCTION THROUGHOUT, UNLESS DETAILED OTHERWISE ON DRAWINGS.
36. SHOP DRAWINGS: CONTRACTOR SHALL FURNISH SHOP DRAWINGS FOR ALL SHOP FABRICATED ITEMS AND WHERE CUSTOMARILY REQUIRED. SUBMIT FOUR (4) SETS OF SHOP DRAWINGS FOR REVIEW. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING THE SHOP DRAWINGS FOR ACCURACY, COORDINATION WITH OTHER TRADES, AND COMPLIANCE WITH THE CONTRACT DOCUMENTS BEFORE BEING SUBMITTED FOR APPROVAL. ARCHITECT'S OR ENGINEER'S APPROVAL OF SHOP DRAWINGS SHALL CONSTITUTE REVIEW AND APPROVAL OF THE GENERAL ARRANGEMENT OF COMPONENTS TO COMPLY WITH THE GENERAL INTENT OF THE CONSTRUCTION DOCUMENTS, EVEN IF SUCH ITEMS ARE NOT SHOWN ON THE SHOP DRAWINGS. THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND CONDITIONS TO INSURE A PROPER FIT UNDER FIELD CONDITIONS AND SHALL MAKE ADJUSTMENTS AS REQUIRED TO MAKE PARTS ALIGN. ALL REVISIONS TO SHOP DRAWINGS AFTER THE FIRST SUBMISSION MUST BE PROPERLY IDENTIFIED ON SUBSEQUENT SUBMISSIONS.
37. A MINIMUM QUANTITY OF TWO (2) 1'-0" x 1'-0" FINISH SAMPLES OF ALL SPECIFIED FINISHES AND CURRENT STOCK CUTTINGS OF ALL SPECIFIED WALL-COVERINGS SHALL BE PROVIDED FOR APPROVAL PRIOR TO ORDERING.
38. PAINT FOR WALL FINISHES SHALL BE PROVIDED AS THREE (3) COAT EGGHELL LATEX ENAMEL PAINT. INSTALLATION: ONE (1) PRIME COAT AND TWO (2) FINISH COATS. COLORS AS SPECIFIED. METAL ELEMENTS AND DOOR FRAMES SHALL HAVE A THREE (3) COAT SEMI-GLOSS ALKYD ENAMEL FINISH.
39. THE GENERAL CONTRACTOR SHALL ASSURE THAT NOT ELECTRIC RECEPTACLE OR TELECOMMUNICATIONS OUTLET COVERPLATES HAVE BEEN INSTALLED PRIOR TO COMPLETION OF APPLICATION OF ANY WALL FINISH MATERIALS. ANY SUCH COVERPLATES OR SURFACE HARDWARE, ETC. IN PLACE SHALL BE REMOVED PRIOR TO WALL FINISH APPLICATION.
40. THE GENERAL CONTRACTOR SHALL PROVIDE AND MAINTAIN COMPLETE PROTECTION FOR ALL NEW INSTALLED FLOOR FINISHES (INCLUDING CARPET) UNTIL ALL CONSTRUCTION WORK IS COMPLETE. PROTECTION SHALL BE REMOVED ONLY IMMEDIATELY PRIOR TO JOB COMPLETION.
41. NO WORK IS TO COMMENCE UNTIL PLANS HAVE BEEN APPROVED BY THE DEPARTMENT OF BUILDINGS AND PERMIT TO BUILD HAS BEEN OBTAINED BY THE GENERAL CONTRACTOR.
42. PRIOR TO THE START OF CONSTRUCTION, THE GENERAL CONTRACTOR SHALL COORDINATE SCHEDULING OF MEETING WITH HIS PROJECT PERSONNEL, THE OWNER, ARCHITECT, AND OTHERS FOR REVIEW OF PROJECT SCOPE, DESIGN, INTENT, CONSTRUCTION QUALITY EXPECTED, AND FINAL DISCUSSION OF DRAWINGS/DETAILS/QUESTIONS.
43. PERFORM ALL WORK IN ACCORDANCE WITH THE APPLICABLE CODES OF THE LOCAL JURISDICTION.
44. THE GENERAL CONTRACTOR AND ALL VENDORS/SUBCONTRACTORS ARE RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS, QUANTITIES, ETC. OF THEIR RESPECTIVE WORK.
45. DO NOT SCALE DRAWINGS. WHERE DIMENSIONS BETWEEN SMALL SCALE AND DETAIL DRAWINGS DIFFER, DETAIL DIMENSIONS SHALL GOVERN. FIELD VERIFY ALL DIMENSIONS, NOTIFY ARCHITECT OF ANY DISCREPANCIES.
46. IF SPACE IS AVAILABLE, THE OWNER MAY PERMIT THE CONTRACTOR TO STORE SOME MATERIALS ON THE SITE IN AN AREA APPROVED BY THE OWNER - PROVIDED THAT THE CONTRACTOR ACCEPTS FULL RESPONSIBILITY FOR ANY AND ALL STORED MATERIALS.
47. GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, AIA DOCUMENT A-201, THE LATEST EDITION, SHALL BE MADE A PART OF THESE DRAWINGS.

48. THE GENERAL CONTRACTOR SHALL CARRY WORKMEN'S COMPENSATION AND LIABILITY INSURANCE TO COVER ALL CONSTRUCTION OPERATIONS TO BE PERFORMED.
49. DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE REMAIN THE PROPERTY OF ARCHITECT AND ARE PROTECTED UNDER COMMON LAW COPYRIGHT PROVISIONS. THEY ARE NOT TO BE REUSED EXCEPT BY WRITTEN AGREEMENT AND WITH THE AGREED COMPENSATION TO THE ARCHITECT. IF REUSED, WITHOUT PERMISSION, THE ARCHITECT SHALL BE INDEMNIFIED AND HELD HARMLESS FROM ALL LIABILITY, LEGAL EXPOSURE, CLAIMS, DAMAGES, LOSSES & EXPENSES. DRAWINGS SHALL NOT BE USED FOR ISSUANCE OF A BUILDING PERMIT UNLESS SIGNED AND SEALED BY THE ARCHITECT. DRAWINGS SHALL NOT BE USED FOR MULTIPLE OR PROTOTYPE DEVELOPMENT WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.
50. THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL COMPLETION/RECEIPT OF FINAL PAYMENT. SHOULD DEFECTS DEVELOP WITHING THE GUARANTEE PERIOD DUE TO FAULTS IN MATERIALS AND/OR LABOR, THE CONTRACTOR SHALL MAKE REPAIRS AND COMPLETE ALL NECESSARY WORKS AS SOON AS POSSIBLE. SPECIFIC MATERIAL AND/OR MATERIAL ASSEMBLIES SUPPLIED BY INDEPENDENT MANUFACTURERS SHALL BE GUARANTEED AS FOLLOWS: (1) IF MANUFACTURER'S / FABRICATOR'S GUARANTEES / WARRANTIES EXCEED THE ONE YEAR STIPULATED PERIOD OF GUARANTEE / WARRANTY, THE SUCH GUARANTEES / WARRANTIES SHALL BE BINDING FOR THE DURATION STIPULATED IN EXCESS OF THE ONE YEAR STIPULATED PERIOD. (2) IF MANUFACTURER'S / FABRICATOR'S GUARANTEES / WARRANTIES ARE LESS THAN THE ONE YEAR STIPULATED PERIOD OF GUARANTEE / WARRANTY, THEN THE CONTRACTOR AND ASSOCIATED SUB-CONTRACTORS SHALL ASSUME THE GUARANTEES / WARRANTIES FOR MATERILS AND MATERIAL ASSEMBLIES TO THE ONE YEAR STIPULATED PERIOD.



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**MERCEDES
 SPORTS PARK - 1
 PHASE - 1
 USA
 MERCEDES, TEXAS**

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JOB #: 2017-019

PHASE: 100% C.D.

DATE: 11.28.2018

DRAWN BY: SRG

CHECKED BY: SRG

GENERAL NOTES

GN1



KEY NOTES

- 1 SINGLE PICNIC UNIT (TYP) REF. LANDSCAPE
- 2 DOUBLE PICNIC AREA (TYP) REF. LANDSCAPE
- 3 GROUP PICNIC UNIT (TYP) REF. LANDSCAPE
- 4 SOCCER FIELD
- 5 BASKETBALL COURT W/ PAVILION REF. A1.02
- 6 RESTROOM BUILDING REF. A1.01
- 7 PROJECT SIGN REF. 2/AS1.0
- 8 ADA ACCESSIBLE PLAYGROUND
- 9 LOOP BIKE RACK. REF. LANDSCAPE
- 10 RAINWATER HARVESTING TANK. REF. LANDSCAPE
- 11 DRIP IRRIGATION SYSTEM. REF. LANDSCAPE
- 12 BERMS. REF. LANDSCAPE
- 13 BENCH. REF. LANDSCAPE
- 14 EXISTING OUTDOOR EXERC. EQUIP CONCRETE PAD
- 15 SANITARY SEWER LINE. REF. CIVIL
- 16 STORM DRAIN. REF. CIVIL
- 17 WATERLINE. REF. CIVIL & MEP



8'-0"

The City of Mercedes
Public Recreation Site Development Project
Funding Assistance From a Portion of the
state sales tax on sporting goods
Through the LOCAL PARK GRANT PROGRAM
Administered by Texas Parks & Wildlife Department,
Recreation Grants Branch.

FUNDING

State of Texas	50%	\$ 500,000
City of Mercedes	40%	\$ 400,000
Hidalgo County	10%	\$ 100,000

4" SQUARE

CONTRACTOR TO FURNISH
AND INSTALL ONE SIGN
CONTRACTOR TO SUBMIT A PROOF
OF THE SIGN PRIOR TO HAVING IT
MANUFACTURED TO ENSURE THE MINIMUM
REQUIREMENTS HAVE BEEN MET.

**TEMPORARY TPWD
CONSTRUCTION SIGN**

2

N.T.S.

SITE PLAN

1

1" = 40'-0"



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MERCEDES
SPORTS PARK 1
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USA
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SITE PLAN

AS1.0



- SOCCER FIELDS
- GROUP PICNIC UNIT (TYP.) SEE DETAIL. (1/L4)
- SEE SHEET L2 FOR ENLARGEMENT PROPOSED SANITARY SEWER LINE
- HYDROMULCH AND IRRIGATION LIMITS
- SINGLE PICNIC UNIT WITH 6' TABLE (TYP.) SEE DETAIL. (4/L4)
- PLAY AREA. SEE L2
- PROPOSED BERMS (TYP.) SEE CIVIL SHEETS.
- PROPOSED STORM DRAIN. SEE CIVIL SHEETS.
- PROPOSED WATERLINE. SEE CIVIL SHEETS.
- DOUBLE PICNIC UNIT (TYP.) SEE DETAIL. (3/L4)
- CONSERVATION AREA LIMITS

MERCEDES SPORTS PARK

1202 N. VERMONT AVE.
MERCEDES, TEXAS 78570

DRAWING INDEX:

- L1 SITE PLAN
- L2 SITE PLAN ENLARGEMENT
- L3 PLANTING PLAN
- L4 SITE DETAILS
- L5 SITE DETAILS
- IR1 IRRIGATION PLAN
- IR2 IRRIGATION SCHEDULE & NOTES
- IR3 IRRIGATION DETAILS

GENERAL NOTES:

1. SEE CIVIL, MEP AND ARCHITECTURAL SHEETS FOR ALL CIVIL, MEP AND ARCHITECTURAL IMPROVEMENTS.
2. THE LOCATION OF ALL IMPROVEMENTS SHALL BE STAKED OR MARKED IN THE FIELD BY THE CONTRACTOR FOR LANDSCAPE ARCHITECT APPROVAL PRIOR TO INSTALLATION.
3. HYDROMULCH ENTIRE PROJECT LIMITS AND ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES. DO NOT HYDROMULCH LANDSCAPE BEDS OR IMPERVIOUS SURFACES.
4. ALL DIRECTIONAL SIGNAGE TO BE PLACED INSIDE LANDSCAPE BEDS. SEE ARCHITECTURAL SHEETS FOR SIGNAGE.
5. ALL EXISTING AND PROPOSED UTILITIES ARE SHOWN SCHEMATICALLY AND ARE FOR THE CONTRACTORS REFERENCE. THE CONTRACTOR SHALL VERIFY THE LOCATION, SIZE AND DEPTH OF ALL UTILITIES PRIOR TO COMMENCING WORK.
6. IF ANY FIELD CONDITIONS VARY FROM THE CONTRACT DOCUMENTS THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING UPON DISCOVERY.
7. MAINTAIN A POSITIVE SLOPE AWAY FROM THE BUILDING FOUNDATION.
8. CONTRACTOR SHALL VERIFY ALL QUANTITIES AND NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES.

SITE EQUIPMENT SCHEDULE

ITEM	MANUFACTURER	MODEL NUMBER	COLOR	APPROX. QTY.	COMMENTS
8' ADA COMPLIANT ALUMINUM PICNIC TABLE	PARK WAREHOUSE	129-1215-1		4	GALVANIZED STEEL FRAMES. FURNISHED & INSTALLED BY OTHERS.
6' ALUMINUM PICNIC TABLE	PARK WAREHOUSE	123-1113-1		11	GALVANIZED STEEL FRAMES. FURNISHED & INSTALLED BY OTHERS.
ACCESSIBLE GRILL	PILOT ROCK	ASW-20-56-B2		5	56 SWIVEL SHELF 8"X16" SURFACE MOUNT. FURNISHED & INSTALLED BY OTHERS.
COVERED GRILL	PILOT ROCK	EC-26/S--B2		2	SURFACE MOUNT FURNISHED AND INSTALLED BY OTHERS
SQUARE FRAME SQUARE UTILITY PREP TABLE	PILOT ROCK	TQ700		3	SURFACE MOUNT. FURNISHED & INSTALLED BY OTHERS.
WOODRIDGE 6' BENCH	WABASH VALLEY	W01119S	GRANITE	3	FURNISHED & INSTALLED BY OTHERS.
WOODRIDGE SURFACE MOUNT PACKAGE	WABASH VALLEY	W01119S		3	FURNISHED & INSTALLED BY OTHERS.
LITTER RECEPTACLE	WABASH VALLEY	LR300(S)	GRANITE	8	SURFACE MOUNT. FURNISHED & INSTALLED BY OTHERS.
LITTER RECEPTACLE LINER	WABASH VALLEY	LR310		8	FURNISHED & INSTALLED BY OTHERS.
BIKE LOOP	WABASH VALLEY	BRH538S	GRANITE	6	SURFACE MOUNT. FURNISHED & INSTALLED BY OTHERS.
SOCCER FIELD GOALS				1	PAIR. FURNISHED & INSTALLED BY OTHERS.
RAINWATER HARVEST TANK	NORWESCO	9539-N-43101	BLACK	1	500 GALLON PLASTIC TANK. AVAILABLE AT PLASTIC-MART.COM. FURNISHED & INSTALLED BY CONTRACTOR.
DOWNSPOUT DIVERTER	RAINHARVEST SYSTEM	RH-DDCR98		1	INSTALL PER MANUFACTURER'S INSTRUCTIONS. FURNISHED & INSTALLED BY CONTRACTOR
PLAYGROUND	MIRACLE		TO MATCH EX.	1	ALL PLAYGROUND EQUIPMENT, CONCRETE CURBING, STONE BASE, LANDSCAPE FABRIC, AND ENGINEERED WOOD FIBER WILL BE FURNISHED AND INSTALLED BY OTHERS. THE EXCAVATION OF THE SITE SHALL BE PROVIDED BY THE CONTRACTOR.
SHADE SHADE STRUCTURES	TENZO SUNSHADES		GUNMETAL WITH MATCHING POST	1-10'X10' 1-10'X20' 1-20'X30'	MANUFACTURER SHALL INCLUDE FOOTING DESIGN SEALED BY AN ENGINEER LICENSED BY THE STATE OF TEXAS. FURNISHED AND INSTALLED BY OTHERS.
BASKETBALL GOAL	BISON	PR55		2	INCLUDE NET. FURNISHED & INSTALLED BY CONTRACTOR.
ALTERNATE EQUIPMENT					
POURED-IN-PLACE SURFACING					FURNISHED & INSTALLED BY OTHERS.
MONO-SLOPE SHELTER				1-12'X12'	MANUFACTURER SHALL INCLUDE FOOTING DESIGN SEALED BY AN ENGINEER LICENSED BY THE STATE OF TEXAS. FURNISHED AND INSTALLED BY OTHERS.
RECTANGULAR HIP SHELTER	ICON SHELTER SYSTEMS INC			1-12'X20'	
RECTANGULAR HIP SHELTER				1-20'X30'	

NORTH
SCALE 1" = 60'



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Andrew T. Heffner

DATE: 11-26-18

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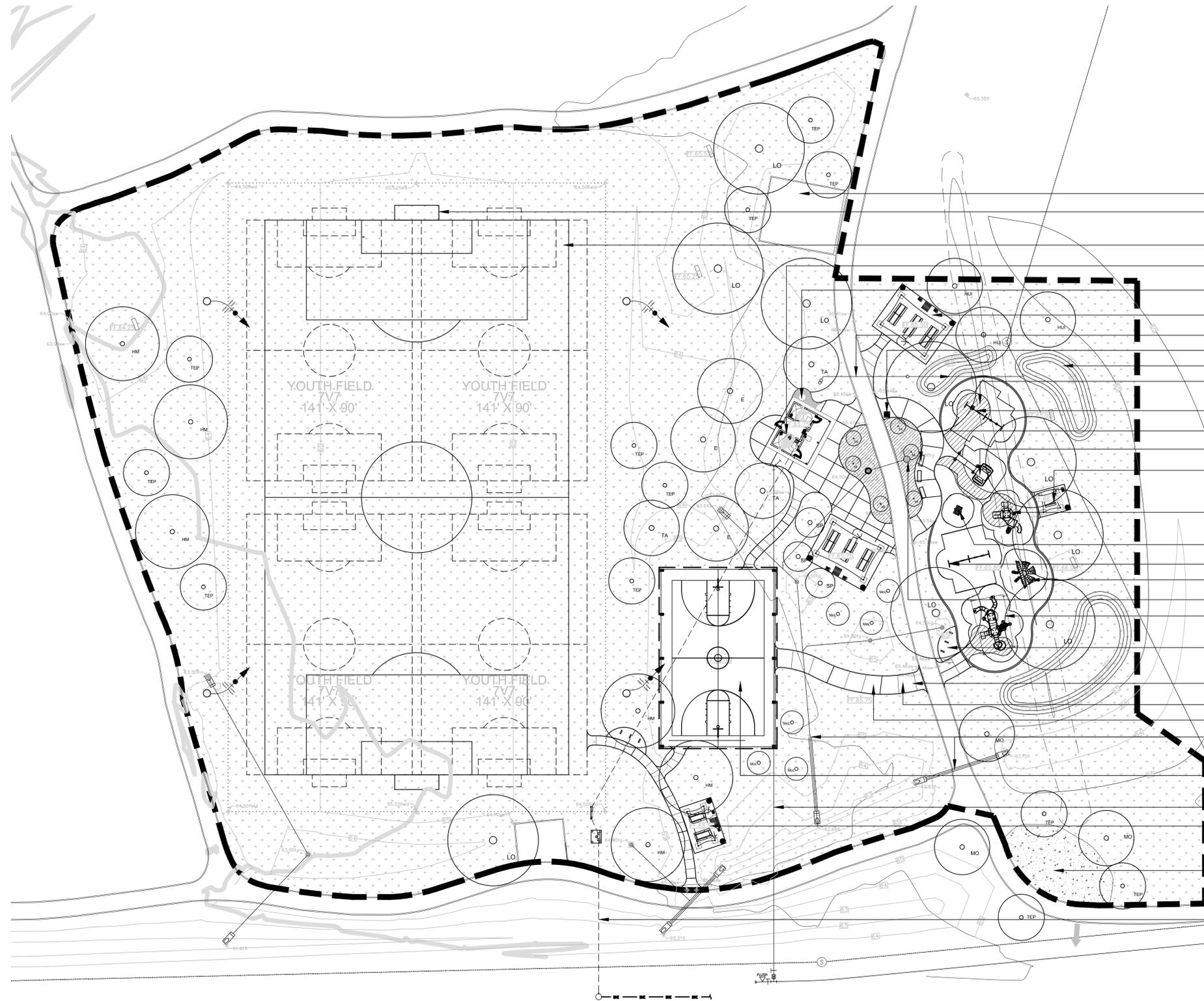
MERCEDES SPORTS PARK - PHASE 1
 USA
 MERCEDES, TEXAS

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SITE PLAN

L1



- EX. OUTDOOR FITNESS EQUIPMENT
- SOCCER GOALS (TYP.) FURNISHED AND INSTALLED BY OTHERS.
- SOCCER FIELD
- RESTROOM. SEE ARCHITECTURAL SHEETS.
- RAIN WATER HARVEST TANK (3/L5)
- GROUP PICNIC UNIT (TYP.) SEE DETAIL (1/L4)
- SANITARY SEWER LINE. SEE CIVIL SHEETS.
- LITTER RECEPTACLE
- BERMS (TYP.) SEE CIVIL SHEETS
- ALTERNATE POURED-IN-PLACE SURFACING FURNISHED AND INSTALLED BY OTHERS
- 2 BAY SWING SET FURNISHED AND INSTALLED BY OTHERS.
- BENCH (TYP.) FURNISHED AND INSTALLED BY OTHERS.
- ALTA GLIDER FURNISHED AND INSTALLED BY OTHERS.
- SINGLE PICNIC UNIT WITH 6' TABLE SEE DETAIL (4/L4)
- EXTEND SLAB TO MEET PLAYGROUND CURB.
- 2-12 YEAR OLD PLAY STRUCTURE FURNISHED AND INSTALLED BY OTHERS.
- ROCK WALL CLIMBER FURNISHED AND INSTALLED BY OTHERS.
- EX. SWINGS
- DOME CLIMBER FURNISHED AND INSTALLED BY OTHERS.
- DRAIN STONE BORDER (5/L4)
- EX. PLAY STRUCTURE
- LOOP BIKE RACK (TYP.) FURNISHED AND INSTALLED BY OTHERS. CONCRETE PAD BY CONTRACTORS.
- CONTROL JOINTS (TYP.) SEE CIVIL SHEETS.
- EXPANSION JOINTS (TYP.) SEE CIVIL SHEETS.
- CONCRETE SIDEWALK
- STORM DRAIN. SEE CIVIL SHEETS.
- BASKETBALL COURT WITH PAVILION, PAVILION FURNISHED AND INSTALLED BY OTHERS. SEE ARCH SHEETS.
- WATERLINE. SEE MEP SHEETS.
- DOUBLE PICNIC UNIT WITH 8' TABLE. SEE DETAIL (3/L4)
- EXTEND SIDEWALK TO MEET PICNIC UNIT.
- EX. OUTDOOR EXERCISE EQUIPMENT.
- MEP RUN. SEE MEP SHEETS

NORTH
SCALE 1" = 30'



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Andrew T. Heffner

DATE: 11-26-18

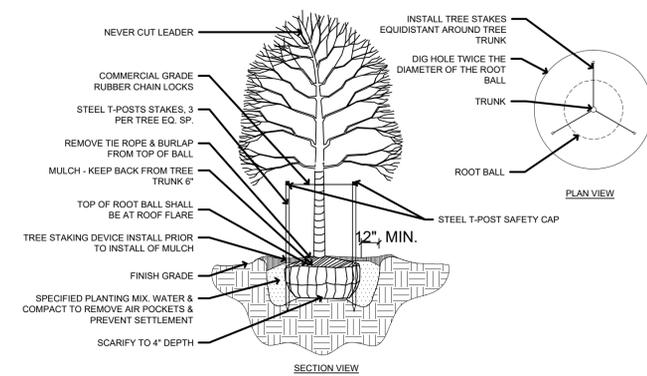
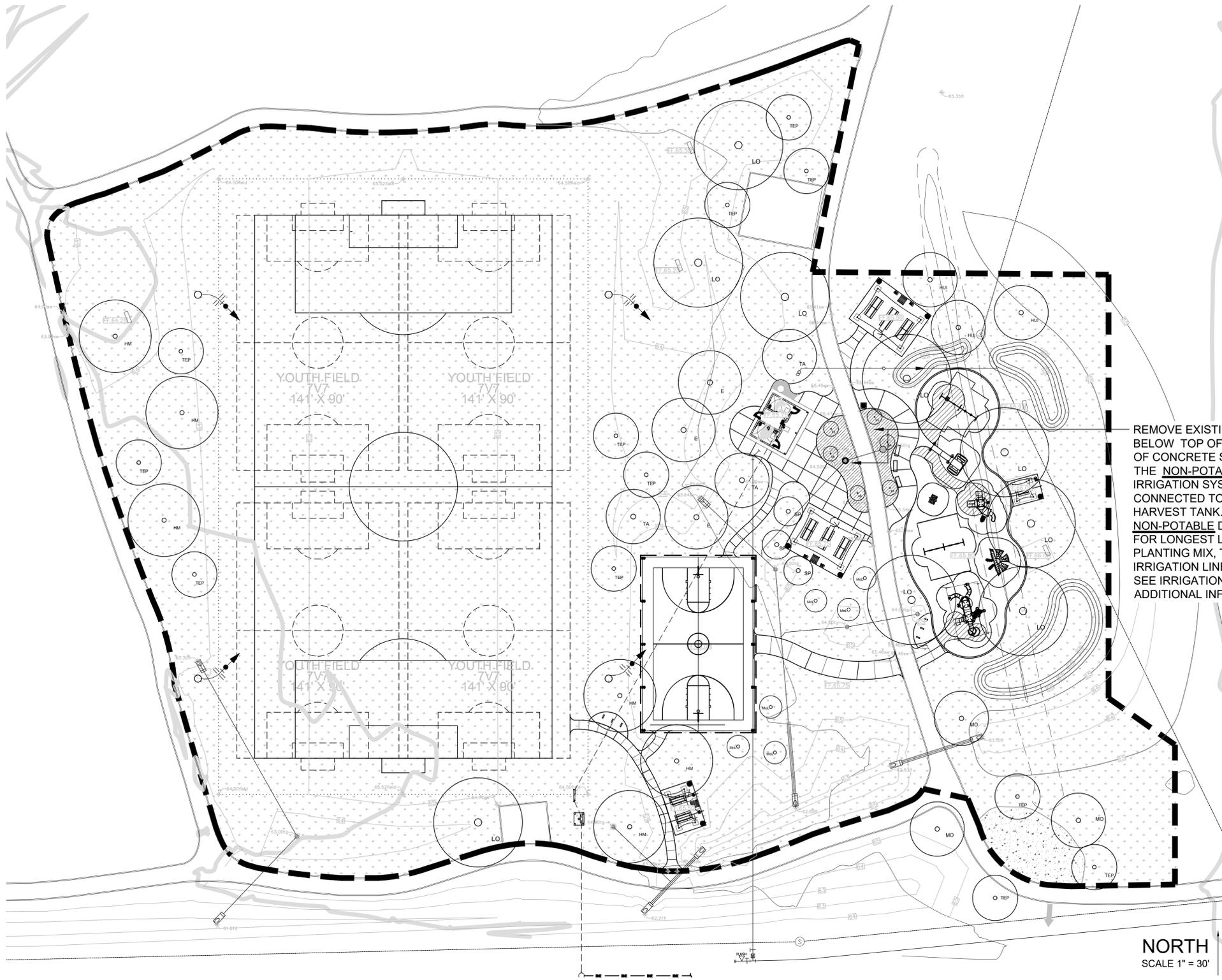
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MERCEDES USA
SPORTS PARK - 1
PHASE 1 MERCEDES, TEXAS

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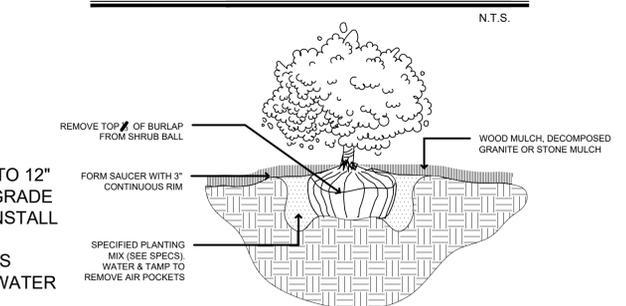
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SITE PLAN
ENLARGEMENT



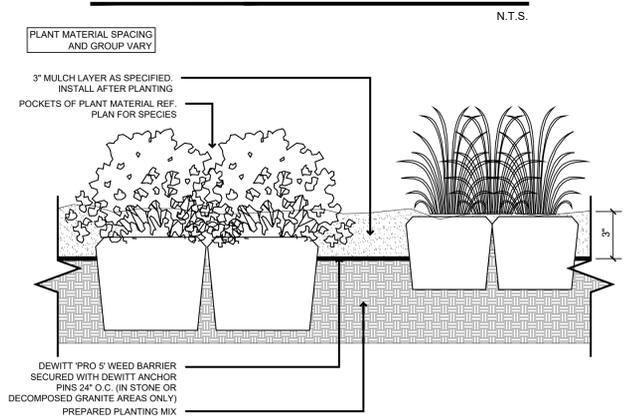
- NOTES:
- FOR EACH ONE (1) INCH CALIPER OF TREE TRUNK DIAMETER INSTALL ONE (1) GRAM AGRIFORM PLANTING TABLET. INSTALL HALF-WAY UP THE ROOTBALL 1" FROM ROOT TIPS.
 - SET TOP OF ROOT CROWN 1" ABOVE FINISHED GRADE WHERE APPLICABLE. TRIM FABRIC AROUND TRUNK OF TREE.
 - REMOVE ALL PLASTIC OR POLYETHYLENE MESH FROM ROOT BALLS.
 - REMOVE ALL NYLON TYING STRINGS.
 - STEEL CAGING TO BE REMOVED BY 23rds.
 - USE MULCH TREE RING IF TREE IS IN MULCHED LANDSCAPE BED ONLY OR LAWN.

TREE & PALM PLANTING
N.T.S.

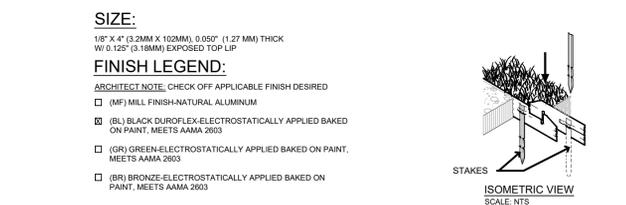


- NOTE:
- SET TOP OF ROOT CROWN 1" ABOVE FINISHED GRADE WHERE APPLICABLE. TRIM FABRIC AROUND TRUNK OF TREE.
 - REMOVE ALL PLASTIC OR POLYETHYLENE MESH FROM ROOT BALLS.
 - REMOVE ALL NYLON TYING STRINGS.
 - STEEL CAGING TO BE REMOVED BY 23rds.

5 GALLON SHRUB PLANTING
N.T.S.



1 & 3 GALLON SHRUB PLANTING
N.T.S.



- SIZE:
1/8" X 4" (3.2MM X 102MM), 0.050" (1.27 MM) THICK
W/ 0.125" (3.18MM) EXPOSED TOP LIP
- FINISH LEGEND:
- ARCHITECT NOTE: CHECK OFF APPLICABLE FINISH DESIRED
- (MF) MILL FINISH-NATURAL ALUMINUM
 - (BL) BLACK DUROFLEX-ELECTROSTATICALLY APPLIED BAKED ON PAINT, MEETS AAMA 2603
 - (GR) GREEN-ELECTROSTATICALLY APPLIED BAKED ON PAINT, MEETS AAMA 2603
 - (BR) BRONZE-ELECTROSTATICALLY APPLIED BAKED ON PAINT, MEETS AAMA 2603

- NOTES:
- INSTALL PER MANUFACTURER'S "INSTALLATION GUIDELINES".
 - 8'-0" (2.44 M) SECTIONS TO INCLUDE (3) 12" (305 MM) ALUMINUM STAKES.
 - 16'-0" (4.88 M) SECTIONS TO INCLUDE (5) 12" (305 MM) ALUMINUM STAKES.
 - CORNERS - CUT BASE EDGING UP HALFWAY AND FORM A CONTINUOUS CORNER.
 - PERMALOC PROLINE AS MANUFACTURED BY PERMALOC CORPORATION, HOLLAND MI. (800) 356-9660, (616) 399-9600 OR APPROVED EQUAL.
 - CONTRACTOR'S NOTE: FOR PRODUCT AND PURCHASING INFORMATION VISIT: WWW.PERMALOC.COM

PERMALOC ALUMINUM EDGING
N.T.S.

REMOVE EXISTING GRADE TO 12" BELOW TOP OF FINISHED GRADE OF CONCRETE SURFACE. INSTALL THE NON-POTABLE DRIP IRRIGATION SYSTEM THAT IS CONNECTED TO THE RAIN WATER HARVEST TANK. SLOPE NON-POTABLE DRIP LINES 1" (2-5" FOR LONGEST LENGTH). ADD 9" OF PLANTING MIX, THE POTABLE DRIP IRRIGATION LINE AND 3" OF MULCH. SEE IRRIGATION SHEETS FOR ADDITIONAL INFORMATION.

CODE	BOTANICAL NAME	COMMON NAME	QTY.	SIZE
HU	ACACIA FARNESIANA	HUISACHE	3	2" CAL., SINGLE STEM, B&B
	CONOCLINIUM GREGGI	GREGG'S MISTFLOWER	167	1 GALLON, 36" O.C. SPACING
MoL	CORDIA BOISSIERI	MEXICAN OLIVE TREE	3	2" CALIPER, B&B
TA	FRAXINUS TEXENSIS	TEXAS ASH	3	2" CAL. B & B
MI	KALMIA LATIFOLIA	MOUNTAIN LAUREL	6	5' HT., GRO-BAG
Tep	LEUCAENA PULVERULENTA	TEPEGUAJE	12	2" CALIPER, B&B
E	PITHACELLOBIUM FLEXICAULE	EBONY	3	2" CAL., B&B
HM	PROSOPIS GLANDULOSA	HONEY MESQUITE	6	2" CAL., SINGLE STEM, B&B
MO	QUERCUS POLYMORPHA	MONTERREY OAK	3	2" CAL. B & B

CODE	BOTANICAL NAME	COMMON NAME	QTY.	SIZE
LO	QUERCUS VIRGINIANA	SOUTHERN LIVE OAK	9	2" CAL., B&B
SP	SABAL TEXANA	TEXAS SABAL PALM	3	6' CLR. TRUNK, FULLY BOOTED
	HYDROMULCH		177,424 SF	1" OF COMPOST ON SOCCER FIELD INCORPORATED INTO TOP 3"
	WOOD MULCH	PREMIUM CYPRESS	1,300 SF	3" LAYER WITHOUT A LAYER OF LANDSCAPE FABRIC
	LANDSCAPE BED EDGING		20 LF	PLACED ONLY AROUND DRAIN STONE BORDER AND RAIN WATER HARVEST TANK
	WASHED GRAVEL	3" LAYER WITH A LAYER OF LANDSCAPE FABRIC	20 LF	



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Andrew T. Heffner

DATE: 11-26-18

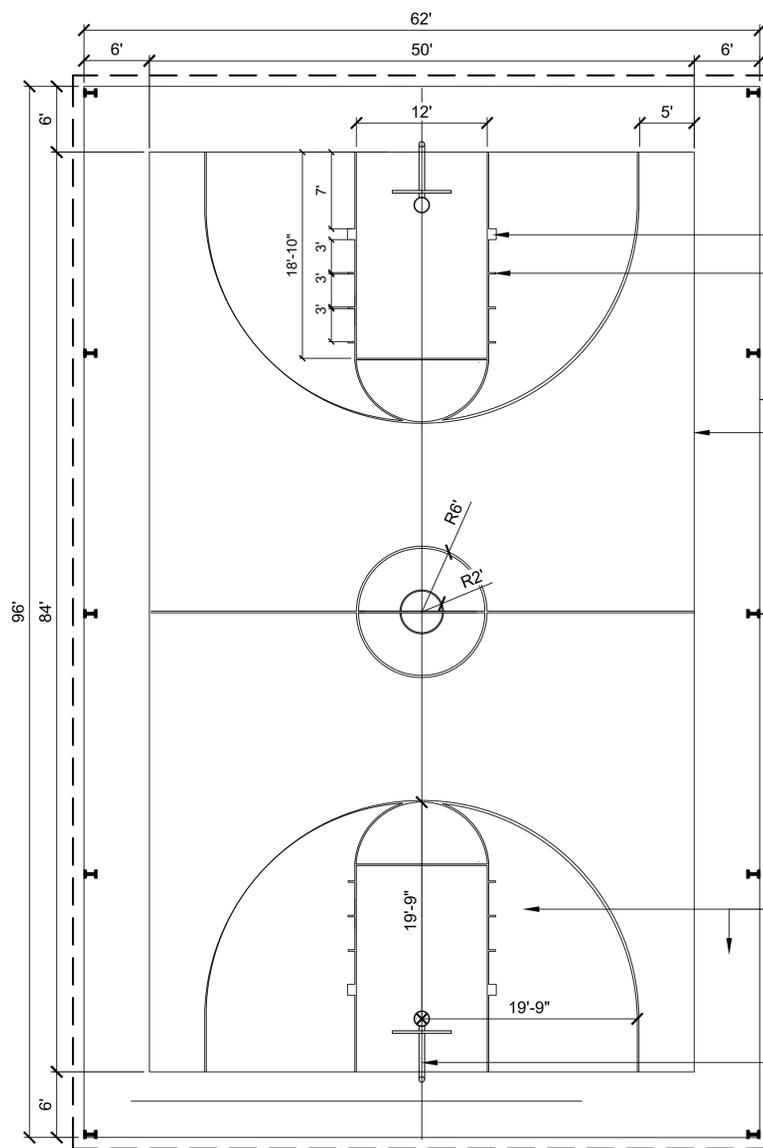
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MERCEDES **USA**
SPORTS PARK
PHASE 1
MERCEDES, TEXAS

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JOB #: 2017-019
PHASE: 100% C.D.
DATE: 11.28.2018
DRAWN BY: SRG
CHECKED BY: SRG

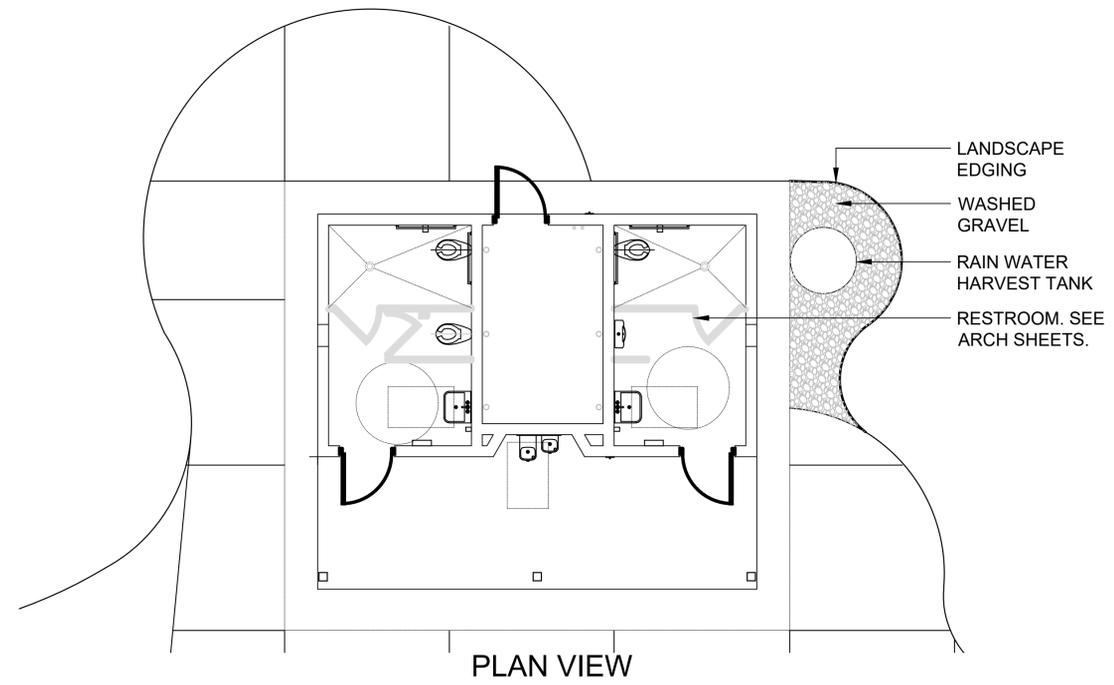
PLANTING PLAN



- NOTES:
1. THE COLOR OF THE LANE SPACE MARKING SHALL BE WHITE AND SHALL CONTRAST WITH THE COLOR OF THE BOUNDING LINES.
 2. THE THREE POINT LINE, FREE THROW LANE LINE, BOUNDARY LINE AND SEMICIRCLE SHALL BE PAINTED WHITE, AND 2" WIDE.
 3. APPLY CONCRETE RESURFACER AFTER CONCRETE HAS CURED. APPLY A MINIMUM OF 2 COATS OF COLOR COATING. APPLY WHITE LINE PAINT ONCE COLOR COAT HAS CURED.

- 12" WIDE X 8" LONG
- 2" WIDE X 8" LONG
- LINE OFF ROOF ABOVE
- LINE OF CONCRETE
- LINE OF BASKETBALL STRIPPING
- STRUCTURE COLUMN. SEE ARCH. SHEETS

- CONCRETE PAVEMENT WITH COLORED ACRYLIC COAT. SUBMIT FULL RANGE OF AVAILABLE BY CITY REP.
- BASKETBALL GOAL, TYP. INSTALL PER DETAIL THIS SHEET.

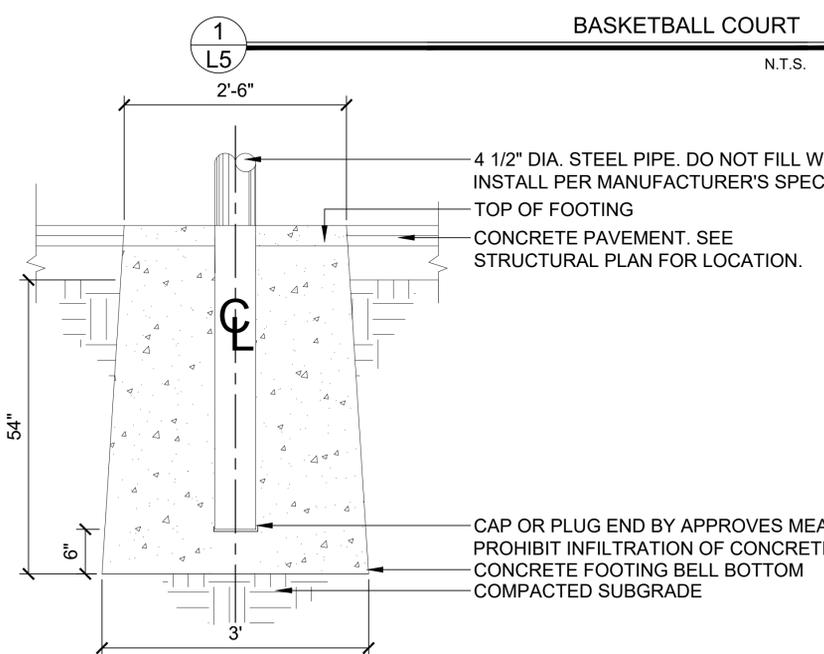


PLAN VIEW



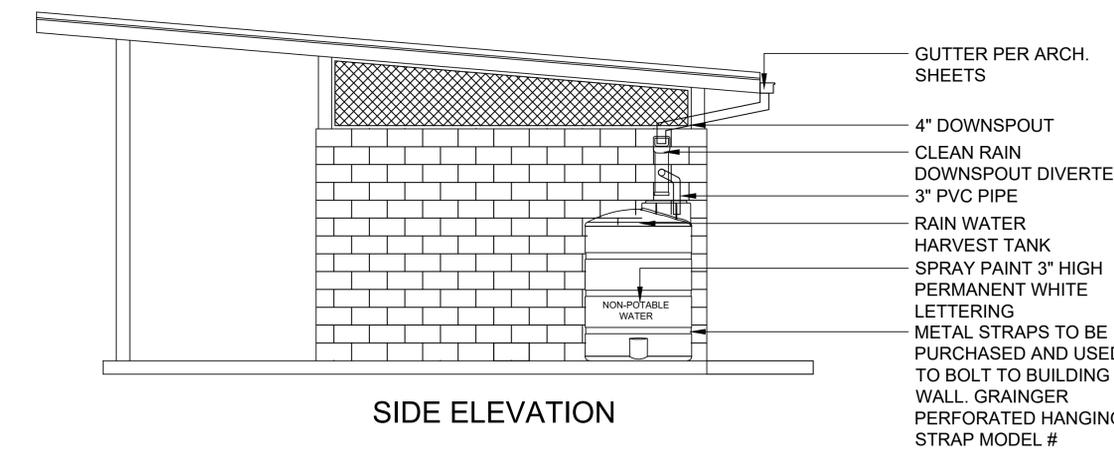
REAR ELEVATION

- NON POTABLE IRRIGATION LINE. SEE IRRIGATION SHEETS
- WASHED GRAVEL
- LANDSCAPE EDGING
- 6" COMPACTED CALICHE



BASKETBALL COURT

BASKETBALL POLE INSTALLATION



SIDE ELEVATION

RAIN WATER HARVESTING SYSTEM

- GUTTER PER ARCH. SHEETS
- 4" DOWNSPOUT
- CLEAN RAIN DOWNSPOUT DIVERTER
- 3" PVC PIPE
- RAIN WATER HARVEST TANK
- SPRAY PAINT 3" HIGH PERMANENT WHITE LETTERING
- METAL STRAPS TO BE PURCHASED AND USED TO BOLT TO BUILDING WALL. GRAINGER PERFORATED HANGING STRAP MODEL # 0097524EG ON GRAINGER.COM
- NON-POTABLE WATER



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SITE DETAILS

GENERAL CONSTRUCTION NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE CITY OF MERCEDES DESIGN STANDARDS. IF NO CITY STANDARD IS AVAILABLE, MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE SPECIFICATIONS CONTAINED HEREIN.
2. THE CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH ALL MATERIALS, LABOR, AND EQUIPMENT TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. ALL ITEMS DESCRIBED IN THE PLANS, SPECIFICATIONS, OR THE PROJECT NOTES IN THE PLANS SHALL BE INCLUDED IN THE CONTRACTOR'S BASE BID. NO EXTRA PAY WILL BE GIVEN UNLESS AN ITEM IS SPECIFICALLY DESCRIBED IN THE PLANS OR CONTRACT DOCUMENTS AS "PAY BY OWNER". ALL WORK SHALL BE CONDUCTED IN CONFORMANCE WITH CURRENT SAFETY CODES AND STANDARDS WITH JURISDICTION OVER THIS PROJECT.
3. THE CONTRACTOR SHALL CONTACT ALL FRANCHISE UTILITY COMPANIES AND CALL "811" TO HAVE THEM LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION AND DEPTH OF ALL FRANCHISE UTILITY SERVICES AND ANY REQUIRED RELOCATION AND/OR EXTENSIONS.
4. THE CONTRACTOR SHALL PROTECT ALL PUBLIC AND PRIVATE UTILITIES IN THE CONSTRUCTION OF THIS PROJECT. ALL MANHOLES, CLEANOUTS, VALVE BOXES, POWER POLES, SIGNS, FIRE HYDRANTS, ETC., MUST BE ADJUSTED TO PROPER GRADE BY THE CONTRACTOR PRIOR TO AND AFTER PLACING OF PERMANENT PAVING. UTILITIES MUST BE MAINTAINED TO PROPER ALIGNMENT AND GRADE DURING CONSTRUCTION OF THE PAVING FOR THIS PROJECT.
5. BRACING OF UTILITY POLES MAY BE REQUIRED BY UTILITY COMPANIES WHEN TRENCHING OR EXCAVATION IS IN CLOSE PROXIMITY TO THE POLES. THE COST OF BRACING POLES WILL BE BORNE BY THE CONTRACTOR. THERE IS NO SEPARATE PAY ITEM FOR THIS WORK. THE COST IS INCIDENTAL TO THE VARIOUS PAY ITEMS FOR INSTALLATION OF UNDERGROUND STRUCTURES AND CONDUITS.
6. THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES SHOWN ON THE PLANS WERE OBTAINED FROM AVAILABLE RECORDS AND ARE CONSIDERED APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ADJACENT AND/OR CONFLICTING UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION IN ORDER THAT ADJUSTMENTS CAN BE MADE TO PROVIDE ADEQUATE CLEARANCES. THE CONTRACTOR SHALL PRESERVE AND PROTECT PUBLIC UTILITIES AT ALL TIMES DURING CONSTRUCTION. ANY DAMAGE TO UTILITIES RESULTING FROM CONTRACTOR'S OPERATIONS SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE. THE ENGINEER SHALL BE NOTIFIED WHEN PROPOSED UTILITY GRADES CONFLICT WITH EXISTING UTILITY GRADES. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR COSTS ASSOCIATED WITH RELOCATIONS, REPAIRS, OR OUTAGES.
7. THE CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE ANY PHYSICAL DAMAGE TO PRIVATE PROPERTY, INCLUDING, BUT NOT LIMITED TO FENCES, WALLS, PAVEMENT, GRASS, TREES, AND LAWN SPRINKLER AND IRRIGATION SYSTEMS AT NO COST TO THE OWNER. THIS WORK SHALL BE SUBSIDIARY TO THE CONTRACT (UNLESS OTHERWISE NOTED) AND IS NOT A SEPARATE PAY ITEM.
8. THE CONTRACTOR SHALL REMOVE SURPLUS MATERIAL FROM THE PROJECT AREA. THIS WORK SHALL BE SUBSIDIARY TO THE CONTRACT AND IS NOT A SEPARATE PAY ITEM.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION, UNLESS OTHERWISE NOTED.
10. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES A COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, AND SPECIAL CONDITIONS, COPIES OF ANY REQUIRED CONSTRUCTION PERMITS, EROSION CONTROL PLANS, SWPPP AND INSPECTION REPORTS.
11. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND THE ENGINEER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE OWNER AND ENGINEER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.
12. TESTING OF MATERIALS REQUIRED FOR THE CONSTRUCTION OF THE PAVING IMPROVEMENTS SHALL BE PERFORMED BY AN AGENCY, APPROVED BY THE OWNER, FOR TESTING MATERIALS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE, BY THE STANDARD TESTING PROCEDURES, THAT THE WORK CONSTRUCTED MEETS THE REQUIREMENTS OF THE APPLICABLE FEDERAL, STATE, OR LOCAL JURISDICTION REGULATIONS, AND PROJECT SPECIFICATIONS.
13. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS SHALL BE SENT TO THE ARCHITECT, CIVIL ENGINEER, CONTRACTOR AND OWNER DIRECTLY FROM THE TESTING AGENCY.
14. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES, JURISDICTIONAL AGENCIES AND/OR UTILITY SERVICE COMPANIES SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.
15. CONTRACTOR SHALL VERIFY BENCHMARKS AND DATUM PRIOR TO COMMENCING CONSTRUCTION OR STAKING OF IMPROVEMENTS.
16. CONTRACTOR SHALL THOROUGHLY CHECK COORDINATION OF CIVIL, LANDSCAPE, MEP, ARCHITECTURAL, AND OTHER PLANS PRIOR TO COMMENCING CONSTRUCTION. OWNER AND ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY PRIOR TO COMMENCING WITH CONSTRUCTION.
17. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THE ENGINEER A COPY OF RECORD DRAWINGS IDENTIFYING ALL DEVIATIONS OR VARIATIONS FROM THE ORIGINAL PLANS.
18. CONTRACTOR SHALL GIVE NOTICE TO ALL AFFECTED PARTIES AND ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES OR RAILROADS AFFECTED BY HIS OPERATIONS, PRIOR TO COMMENCEMENT OF WORK.
19. IT IS THE INTENT OF THE CONTRACT DOCUMENTS TO PROVIDE A COMPLETE INSTALLATION OF SYSTEMS IN EVERY RESPECT. IF THE CONTRACT DOCUMENTS DO NOT SUFFICIENTLY DESCRIBE THE FINAL PRODUCT, THE CONTRACTOR SHALL BRING SUCH TO THE ATTENTION OF THE ENGINEER. UNLESS OTHERWISE SPECIFIED, IT IS THE CONTRACTOR'S RESPONSIBILITY FOR METHODOLOGY OF CONSTRUCTION TO COMPLETE THE WORK INDICATED OR SPECIFIED. CONTRACTOR IS TO PROVIDE ALL LABOR, MATERIALS, FUEL, TEMPORARY UTILITIES, AND EQUIPMENT USUALLY FURNISHED WITH SUCH SYSTEMS OR REQUIRED TO COMPLETE THE INSTALLATION, WHETHER SPECIFICALLY MENTIONED OR NOT.
20. CONTRACTOR SHALL COMPLY WITH ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS AND REGULATIONS, AS WELL AS ANY OTHER APPLICABLE FEDERAL, STATE, OR LOCAL HEALTH AND SAFETY STANDARDS, LAWS, OR REGULATIONS. FAILURE TO COMPLY WITH THE REQUIREMENTS SPECIFIED SHALL BE CONSIDERED JUST AND SUFFICIENT CAUSE FOR OWNER TO STOP WORK. ENGINEER SHALL NOT BE RESPONSIBLE FOR ON-SITE SAFETY CONDITIONS DURING CONSTRUCTION OR INSPECTIONS.
21. CONTRACTOR SHALL COMPLY WITH TEXAS HEALTH AND SAFETY CODE, CURRENT EDITION AS OF THE DATE OF SEAL ON THESE PLANS, TO MAINTAIN A VIABLE TRENCH SAFETY SYSTEM AT ALL TIMES AS WELL AS THE U.S. DEPARTMENT OF LABOR, OSHA, "CONSTRUCTION SAFETY AND HEALTH REGULATIONS", PART 1926, SUB PART P, AND AMENDMENTS THERETO. SHEETING, SHORING, BRACING, AND OTHER TRENCH SAFETY COSTS SHALL BE SUBSIDIARY TO THE COST CONSTRUCTION (NO EXTRA PAY).

FRANCHISE UTILITY NOTES:

1. CONTRACTOR SHALL CONTACT FRANCHISE UTILITY COMPANIES PRIOR TO CONSTRUCTION, IN ORDER TO LOCATE AND/OR DISCONNECT EXISTING SERVICES, AND TO COORDINATE NEW SERVICE.
2. ANY PROPOSED FRANCHISE UTILITY LOCATIONS SHOWN ON THESE DRAWINGS ARE CONCEPTUAL ONLY. THE CONTRACTOR SHALL COORDINATE THE EXACT DESIGN, ALIGNMENT, INSTALLATION REQUIREMENTS AND COST SHARING ARRANGEMENTS WITH THE INDIVIDUAL UTILITY PROVIDERS AND THE PROJECT OWNER.
3. THE CONTRACTOR SHALL INCLUDE IN THE BASE BID, ALL ASSOCIATED COSTS TO INSTALL FRANCHISE UTILITY (GAS, ELEC, PHONE, CABLE) SERVICE TO THE PROPOSED BUILDING. THE CONTRACTOR SHALL ESTABLISH ADEQUATE LEAD TIME IN THEIR CONSTRUCTION SCHEDULE FOR COORDINATING AND PROCURING FRANCHISE UTILITY SERVICES.

GRADING NOTES

1. NO SLOPES SHALL BE GREATER THAN 3:1 UNLESS OTHERWISE SHOWN.
2. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE FROM THE PROPOSED BUILDINGS AND NO PONDING IN PAVED AREAS. CONTRACTOR FIELD ADJUSTMENTS TO SPOT GRADES TO MAINTAIN POSITIVE DRAINAGE ARE ALLOWED WITH THE PRIOR APPROVAL OF THE ENGINEER. CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO PAVING, IF ANY AREAS OF POOR DRAINAGE ARE ENCOUNTERED OR ANTICIPATED.
3. THE CONTRACTOR SHALL PROTECT ALL MANHOLE COVERS, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, POWER POLES, GUY WIRES, AND TELEPHONE BOXES WHICH ARE TO REMAIN IN PLACE AND UNDISTURBED DURING CONSTRUCTION.
4. THE CONTRACTOR SHALL CALCULATE THEIR OWN EARTHWORK QUANTITIES TO DETERMINE THEIR BID. ANY DEVIATION FROM A BALANCED CUT AND FILL SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER AND ANY VARIANCE SHALL BE SPECIFICALLY ITEMIZED ON THE BID. THE CONTRACTOR IS EXPECTED TO CONSTRUCT THE PROJECT PER THE APPROVED GRADING PLAN. DISCREPANCIES IN EARTHWORK QUANTITIES AFTER BEGINNING CONSTRUCTION SHALL BE AT THE CONTRACTOR'S EXPENSE.
5. THE CONTRACTOR SHALL REFERENCE THE ARCHITECTURAL, STRUCTURAL PLANS, SPECIFICATIONS, AND GEOTECHNICAL REPORT FOR ALL BUILDING PADS.
6. TOP AND TOE SPOTS INDICATE FINAL GROUND ELEVATION AT HIGH SIDE AND THE LOW SIDE, RESPECTIVELY, OF THE WALL OR SLOPE (NOT ANY PHYSICAL ELEVATIONS OF THE WALL STRUCTURE). RETAINING WALL DESIGN IS NOT INCLUDED IN THESE PLANS.

ACCESSIBILITY NOTES

1. IT IS THE ENGINEER'S INTENT THAT SURFACES AT ACCESSIBLE PARKING SPACES, AT DROP OFF AND PICK UP AREAS, ALONG ACCESSIBLE ROUTES, AND AT BUILDING ENTRANCES OR EXITS ARE CONSTRUCTED SUCH THAT THOSE SURFACES SHALL HAVE A SLOPE NOT GREATER THAN 2.00% IN ANY DIRECTION AND NOT LESS THAN 1.00% IN THE DIRECTION OF STORM WATER RUNOFF. HOWEVER, LONGITUDINAL SLOPES ALONG ACCESSIBLE ROUTES MAY BE INCREASED TO NOT MORE THAN 5.00% IF SO INDICATED BY THE ENGINEER'S GRADING PLAN.
2. IN CASE OF DISCREPANCY WITH SPOT ELEVATIONS OR ELEVATION CONTOURS, THE ENGINEER'S INTENT DESCRIBED IN THIS NOTE SHALL GOVERN. THE CONTRACTOR SHALL CONSTRUCT THE IMPROVEMENTS IN COMPLIANCE WITH THE ENGINEER'S INTENT AS DESCRIBED IN THIS NOTE UNLESS THE CONTRACTOR HAS COORDINATED WITH THE ENGINEER AND RECEIVED WRITTEN AUTHORIZATION TO PROCEED OTHERWISE.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AS A PART OF THE CONTRACTOR'S CONSTRUCTION OVERSIGHT DUTIES, TO THOROUGHLY REVIEW ALL PROPOSED SLOPES AND ELEVATIONS PRIOR TO THE CONSTRUCTION OF ANY IMPROVEMENTS.
4. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF PLAN DISCREPANCIES OR DISCREPANCIES BETWEEN THE PLANS AND THE RULE DESCRIBED IN "ACCESSIBILITY NOTE 1", PRIOR TO CONSTRUCTION, AND THE CONTRACTOR SHALL ALLOW THE ENGINEER TIME TO REVIEW THE PLANS AND MAKE REVISIONS IF NECESSARY.
5. THE ENGINEER'S PLANS HAVE BEEN PREPARED WITHOUT THE BENEFIT OF DETAILS REGARDING THE THRESHOLD TO BE INSTALLED AT BUILDING INGRESS/EGRESS LOCATIONS. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE ARCHITECT OF THE BUILDING TO ENSURE THAT ELEVATION DIFFERENCES BETWEEN THE BUILDING'S FINISHED FLOOR, THE THRESHOLD, AND THE FLATWORK ADJACENT TO THE BUILDING ARE IN COMPLIANCE WITH ALL APPLICABLE ACCESSIBILITY REQUIREMENTS.
6. THE CONTRACTOR SHALL ENSURE THAT THERE IS POSITIVE DRAINAGE AWAY FROM THE BUILDING AT ALL LOCATIONS.
7. IT IS IMPERATIVE THAT THE CONTRACTOR COORDINATE ACCESSIBILITY CONCERNS WITH THE ENGINEER AND ARCHITECT PRIOR TO CONSTRUCTING THE IMPROVEMENTS. IF THE CONTRACTOR FAILS TO ADEQUATELY COORDINATE WITH THE ENGINEER AND THE ARCHITECT PRIOR TO CONSTRUCTING IMPROVEMENTS, ANY EXTRA COSTS TO RECTIFY ACCESSIBILITY ISSUES WILL BE AT CONTRACTOR'S SOLE EXPENSE, AND THE CONTRACTOR SHALL, WITH NO EXTRA PAY, PERFORM RE-WORK SUCH AS DEMOLITION, REMOVAL, RE-GRADING, AND REPLACEMENT OF ANY CONCRETE, ASPHALT, COMPACTED EARTH OR OTHER SURFACES, AND ALL OTHER RELATED IMPROVEMENTS, WHICH HAVE BEEN CONSTRUCTED BY CONTRACTOR OR CONTRACTOR'S SUB-CONTRACTOR THAT DO NOT COMPLY WITH ALL APPLICABLE CODES AND ACCESSIBILITY REQUIREMENTS.

WATER AND SANITARY SEWER NOTES

1. PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES WHERE PROPOSED UTILITIES ARE BEING CONNECTED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF A CONFLICT IS DISCOVERED.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN, COORDINATING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITY SERVICES ENTERING THE BUILDING AND/OR CROSSING OTHER UTILITIES.
3. ALL UTILITY CONSTRUCTION, WATER TAPS, VALVES, MANHOLES, AND SERVICES SHALL BE INSTALLED BY THE CONTRACTOR AFTER APPROVAL FROM THE APPLICABLE FEDERAL, STATE, OR LOCAL JURISDICTION AND SHALL CONFORM TO ALL GUIDELINES AND REGULATIONS SET FORTH BY THE APPLICABLE FEDERAL, STATE, OR LOCAL JURISDICTION REGULATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION.
4. ALL FIRE LINES AND APPURTENANCES USED FOR FIRE PROTECTION SHALL CONFORM TO THE CURRENT THE APPLICABLE FEDERAL, STATE, OR LOCAL JURISDICTION REGULATIONS. DESIGN AND INSTALLATION OF ALL FIRE PROTECTION SYSTEMS SHALL BE DONE BY A STATE LICENSED FIRE SPRINKLER CONTRACTOR.
5. ALL WATER MAINS 6"-12" DIA. SHALL MAINTAIN A MINIMUM COVER IN ACCORDANCE WITH THE APPLICABLE FEDERAL, STATE, OR LOCAL JURISDICTION REGULATIONS UNDER UNPAVED FINISHED GRADE & PROPOSED OR EXISTING PAVEMENT. ALL SEWER MAINS SHALL MAINTAIN A MINIMUM COVER OF THE APPLICABLE FEDERAL, STATE, OR LOCAL JURISDICTION REGULATIONS.
6. ALL SANITARY SEWER LINES SHALL BE A MINIMUM OF PVC (SDR-35) PIPE. ALL SANITARY SEWER LINES DEEPER THAN 10 FEET SHALL BE SDR-26. ALL WATER LINES SHALL BE C900, DR-18. MATERIALS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE APPLICABLE FEDERAL, STATE, OR LOCAL JURISDICTION REGULATIONS.
7. THE CONTRACTOR SHALL SEQUENCE CONSTRUCTION TO AVOID INTERRUPTION OF WATER AND SANITARY SEWER SERVICE TO SURROUNDING AREAS.
8. EXISTING AND/OR PROPOSED WATER MAINS SHALL BE LOWERED BELOW OR ABOVE PROPOSED SANITARY AND STORM SEWER LINES TO MAINTAIN A MINIMUM OF 2.0 FEET OF VERTICAL SEPARATION. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 9'-FEET (OUTSIDE TO OUTSIDE) SEPARATION BETWEEN SANITARY SEWER AND WATER MAINS.
9. EXISTING MANHOLE TOPS, VALVE BOXES, FIRE HYDRANTS AND ALL OTHER UTILITY APPURTENANCES SHALL BE ADJUSTED, AS REQUIRED, TO MATCH PROPOSED GRADES AS SHOWN ON GRADING PLAN. S.S. MANHOLES IN UNPAVED AREAS SHALL BE ADJUSTED TO BE 6" ABOVE ADJACENT GRADE.
10. FOR EACH SEWER AND WATER CROSSING, CONTRACTOR SHALL CENTER ONE JOINT OF SEWER PIPE ON THE EXISTING OR PROPOSED WATER MAIN.
11. FIRE DEPARTMENT CONNECTIONS SHALL BE LOCATED ON THE BUILDING NO LESS THAN 18", OR NO MORE THAN 48" ABOVE ADJACENT GRADE.
12. THE CONTRACTOR SHALL INSTALL CONCRETE COLLARS (OR OTHER APPROVED MEANS) ON THE UNDERGROUND UTILITIES, TO PREVENT GROUND WATER FROM MIGRATING IN THE UTILITY TRENCH, BELOW THE BUILDING SLAB.
13. ALL WATER AND SANITARY SEWER SERVICES SHALL TERMINATE 5 FEET OUTSIDE THE BUILDING, UNLESS OTHERWISE NOTED, AND THE END OF THESE SERVICES SHALL BE TIGHTLY PLUGGED OR CAPPED. SEE M.E.P. OR ARCHITECTURAL PLANS FOR CONTINUATION.

NOTE:

ANY DISCREPANCIES BETWEEN THE GENERAL NOTES AND CITY SPECIFICATIONS OR STANDARD DETAILS SHALL BE WHICHEVER IS MORE RESTRICTIVE AS DETERMINED BY THE CITY INSPECTOR

EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL EROSION, CONSERVATION, AND SILTATION ORDINANCES. THE CONTRACTOR SHALL USE SEDIMENT FILTERS OR OTHER MEASURES APPROVED BY THE ENGINEER AND CONSTRUCTION MANAGER TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM CLOGGING STORM SEWER PIPES OR PROPOSED OR EXISTING INLETS, OR FROM BEING TRANSPORTED TO ADJACENT PROPERTIES AND STREET RIGHT-OF-WAYS. ALL EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO SITE DISTURBANCE AND SHALL REMAIN IN PLACE UNTIL FINAL GRADING AND PAVING IS COMPLETE AND PERMANENT SOIL STABILIZATION IS ACHIEVED BY MEANS OF PAVEMENT AND VEGETATION OR OTHER PERMANENT EROSION CONTROL MEASURES.
2. CONTRACTOR SHALL REFERENCE EROSION CONTROL PLAN NOTES AND SPECIFICATIONS FOR GENERAL STORMWATER POLLUTION PREVENTION AND BEST MANAGEMENT PRACTICES (BMP). BECAUSE EROSION CONTROL AND BMPs ARE CLOSELY TIED TO MEANS AND METHODS OF CONSTRUCTION, ENGINEER SHALL NOT BE HELD LIABLE, WHETHER JOINT OR SEVERABLE, FOR FINES RELATED TO THE STORMWATER POLLUTION PREVENTION, OUTSIDE OF THE CONTROLS ON THE SEALED EROSION CONTROL PLAN IN THIS SET.
3. CONSTRUCTION OPERATIONS SHALL BE MANAGED SO THAT AS MUCH OF THE SITE AS POSSIBLE IS LEFT COVERED WITH EXISTING TOPSOIL AND VEGETATION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
5. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH. THE AREAS SHALL THEN BE SEEDED (OR SODDED), IRRIGATED, AND MAINTAINED UNTIL PERMANENT STAND OF GRASS IS ACHIEVED WITH A MINIMUM OF 70% COVERAGE. UNLESS OTHERWISE NOTED, PRIVATE LAWN AREAS AND PARKWAYS IN FRONT OF PRIVATE LAWN AREAS DISTURBED BY CONSTRUCTION SHALL BE REPLACED WITH BLOCK SOD SIMILAR TO THAT EXISTING. LANDSCAPE AREAS OUTSIDE OF PARKING SHALL BE STABILIZED IMMEDIATELY AFTER PARKING PLACEMENT. FAILURE TO BEGIN STABILIZATION OF THESE AREAS MAY RESULT IN DELAYS FOR BUILDING PAD.
6. THE CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION ENTRANCE/EXIT AT ALL POINTS OF CONSTRUCTION ACCESS TO THE SITE. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION TRAFFIC UTILIZES THE STABILIZED ENTRANCE AT ALL TIMES FOR INGRESS/EGRESS TO THE SITE. SEDIMENTS TRACKED ONTO EXISTING ROADWAYS SHALL BE REMOVED IMMEDIATELY.
7. SITE ENTRY AND EXIT LOCATIONS SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAYS. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ON A PUBLIC ROADWAY SHALL BE REMOVED IMMEDIATELY. WHEN WASHING IS REQUIRED TO REMOVE SEDIMENT PRIOR TO ENTRANCE TO A PUBLIC ROADWAY, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN. A WHEEL WASH SYSTEM MAY BE INCORPORATED INTO THE STABILIZED CONSTRUCTION ENTRANCE/EXIT. ALL FINES IMPOSED FOR TRACKING OF SEDIMENT ONTO PUBLIC ROADS SHALL BE PAID BY THE CONTRACTOR.
8. CONTRACTOR IS RESPONSIBLE FOR PROPER MAINTENANCE OF THE REQUIRED EROSION CONTROL DEVICES THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS. EROSION CONTROLS SHALL BE REPAIRED OR REPLACED AS INSPECTION DEEMS NECESSARY, OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. ACCUMULATED SILT IN ANY EROSION CONTROL DEVICE SHALL BE REMOVED AND SHALL BE DISTRIBUTED ON SITE IN A MANNER NOT CONTRIBUTING TO ADDITIONAL SILTATION. THE CONTRACTOR IS RESPONSIBLE FOR RE-ESTABLISHING ANY EROSION CONTROL DEVICE WHICH IS DISTURBED.
9. THE CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL USE FILTER BARRIER (OR OTHER METHOD APPROVED BY THE ENGINEER AND APPLICABLE AUTHORITY) AS REQUIRED TO PREVENT ADVERSE OFF SITE IMPACTS OR STORM WATER QUALITY FROM SILT AND CONSTRUCTION DEBRIS FLOWING ONTO ADJACENT PROPERTIES AS REQUIRED BY THE APPLICABLE AUTHORITY.
10. BEFORE ANY EARTHWORK IS DONE, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF CONSTRUCTION AND OTHER ITEMS ESTABLISHED BY THE PLANS. THE CONTRACTOR SHALL PROTECT AND PRESERVE CONTROL POINTS AT ALL TIMES DURING THE COURSE OF THE PROJECT. THE GRADING CONTRACTOR SHALL PROVIDE ALL NECESSARY ENGINEERING AND SURVEYING FOR LINE AND GRADE CONTROL POINTS RELATED TO EARTHWORK.



11/26/2018

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GENERAL CONSTRUCTION NOTES

C-1.1



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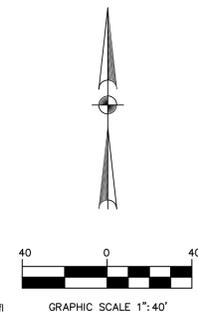
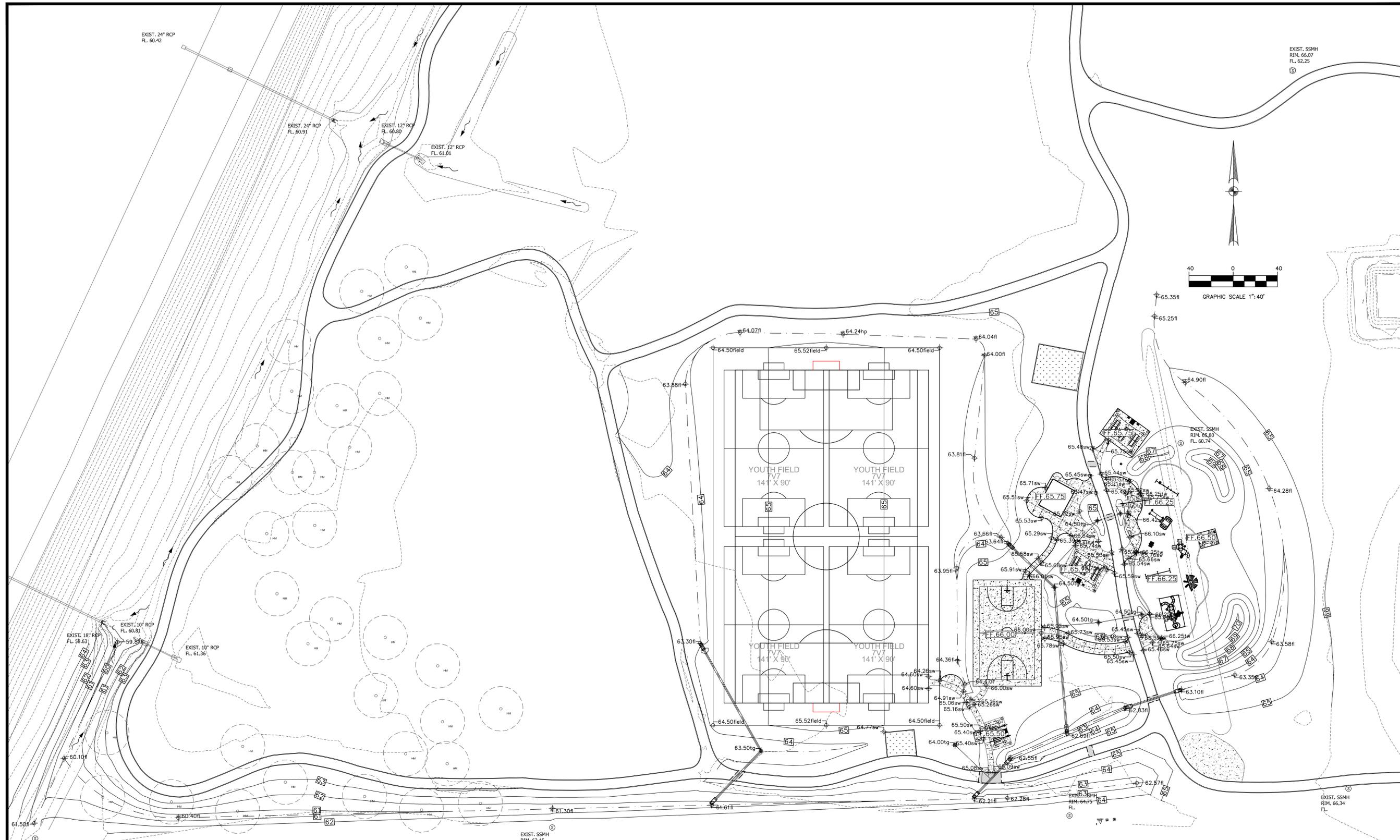
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C-3.1



NOTES

1. ALL SLOPES WITHIN ACCESSIBLE PARKING AREAS SHALL NOT EXCEED 2.0% IN ALL DIRECTIONS. ALL SLOPES ALONG ACCESSIBLE ROUTES SHALL NOT EXCEED 5.0% LONGITUDINALLY AND 2.0% IN CROSS-SLOPE.
2. ALL PAVEMENT SECTIONS AND EARTHWORK TO CONFORM TO RECOMMENDATIONS OF THE GEOTECH REPORT PERFORMED BY MILLENIUM ENGINEERING GROUP. DATED 8/17/2018 (MEG PROJECT NO. 01-18-29173)

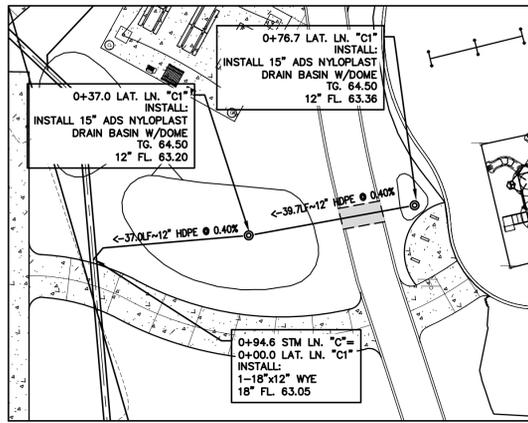
GRADING LEGEND

	EXISTING CONTOUR
	PROPOSED CONTOURS
	DIRECTION OF FLOW
	TOP OF PAVEMENT OR PROPOSED GRADE
	MATCH EXISTING

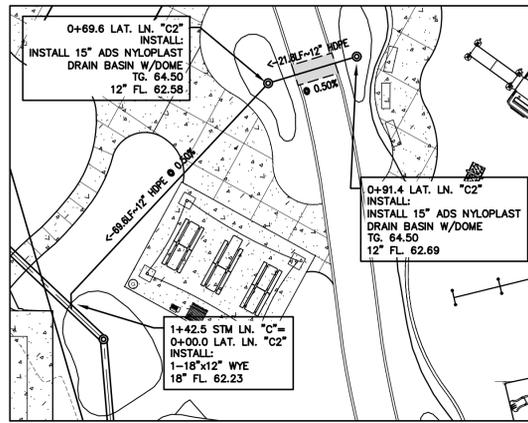
OVERALL GRADING PLAN



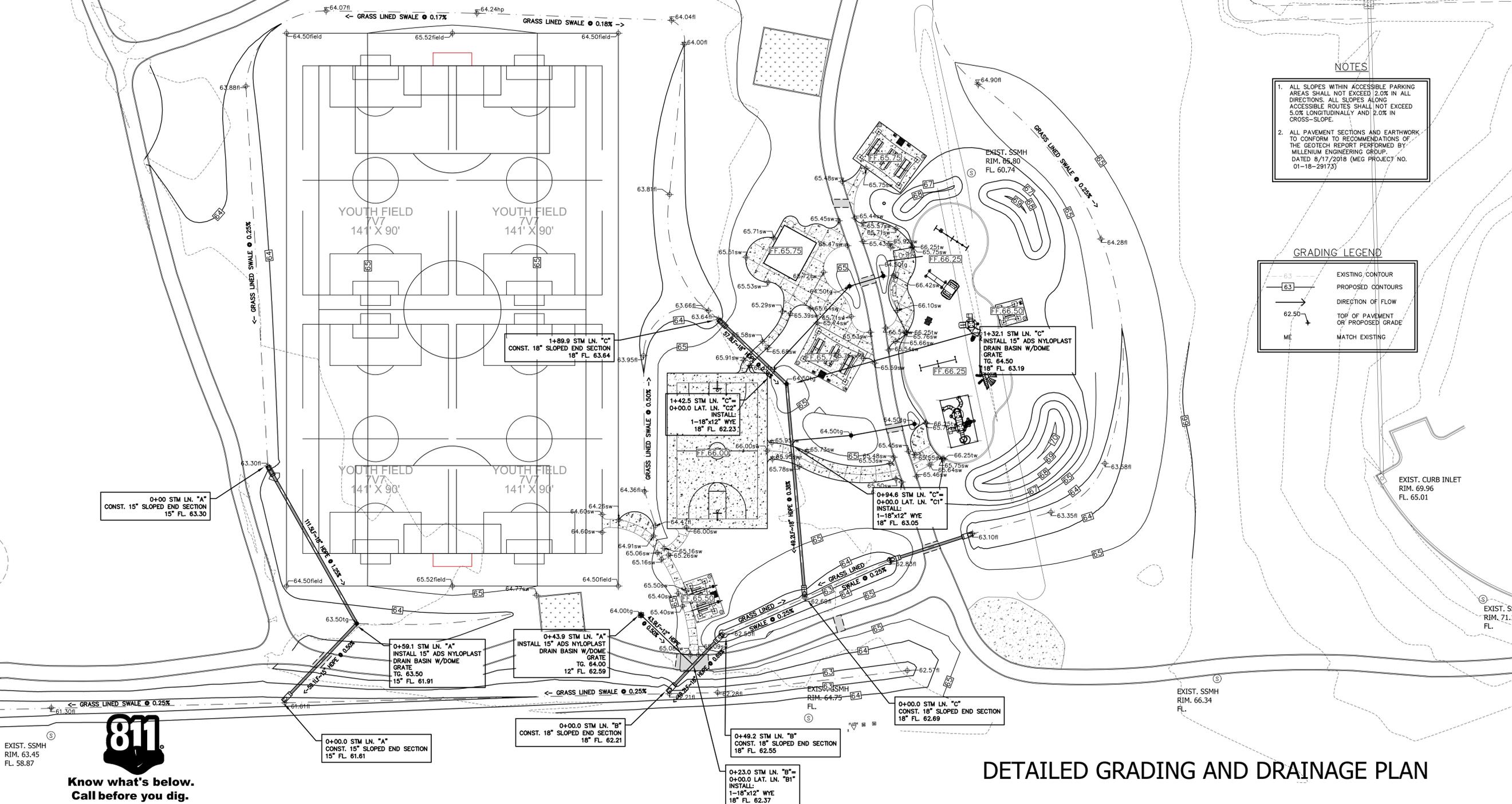
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STORM LATER LINE "C1"
SCALE: 1=20



STORM LATER LINE "C2"
SCALE: 1=20

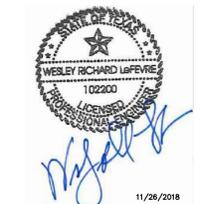


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2. ALL PAVEMENT SECTIONS AND EARTHWORK TO CONFORM TO RECOMMENDATIONS OF THE GEOTECH REPORT PERFORMED BY MILLENNIUM ENGINEERING GROUP. DATED 8/17/2018 (MEG PROJECT NO. 01-18-29173)

GRADING LEGEND

	EXISTING CONTOUR
	PROPOSED CONTOURS
	DIRECTION OF FLOW
	TOP OF PAVEMENT OR PROPOSED GRADE
	MATCH EXISTING



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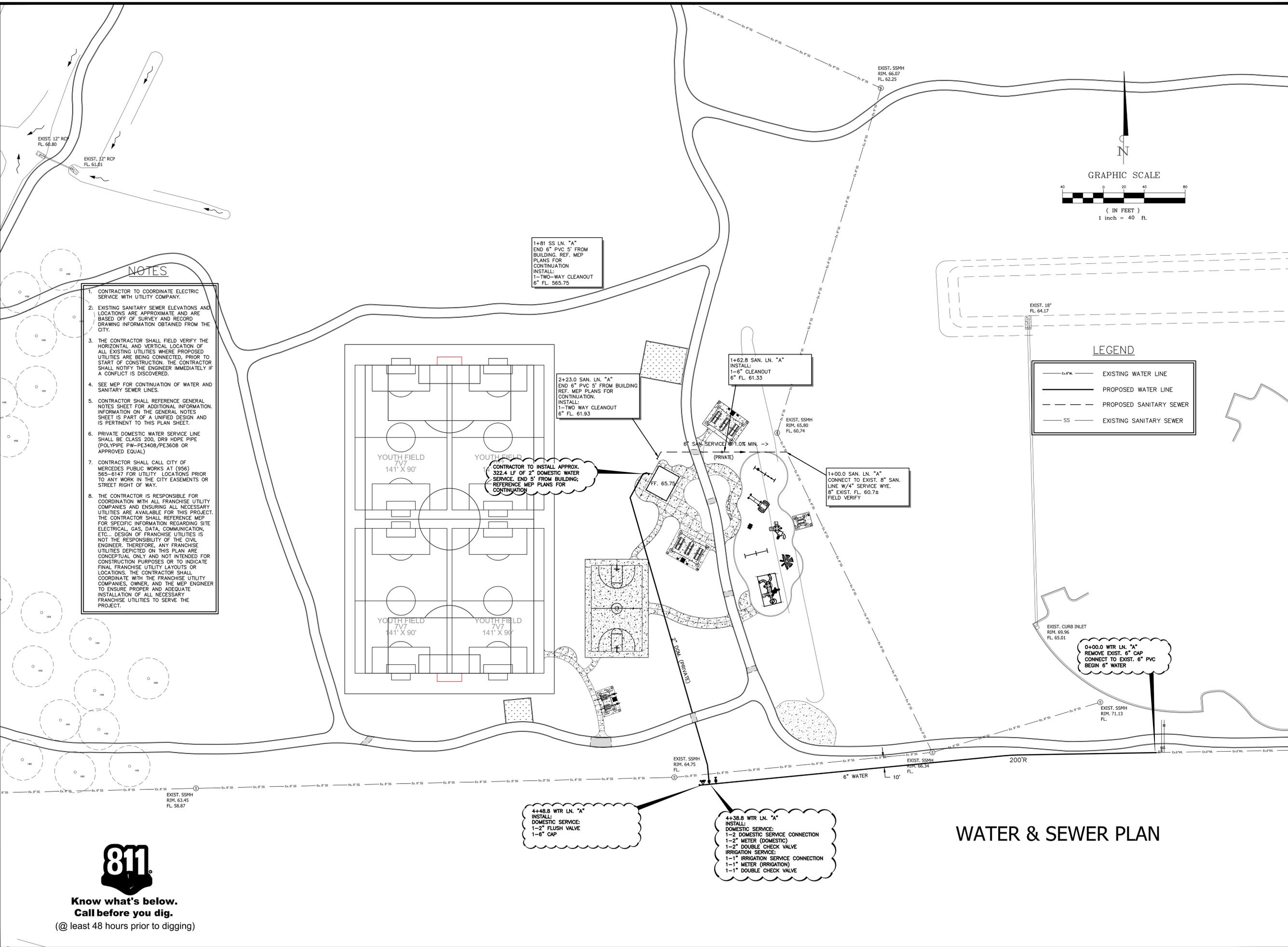
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DETAILED GRADING AND DRAINAGE PLAN

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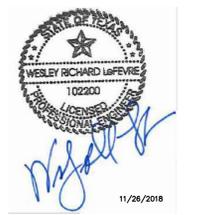
- NOTES**
1. CONTRACTOR TO COORDINATE ELECTRIC SERVICE WITH UTILITY COMPANY.
 2. EXISTING SANITARY SEWER ELEVATIONS AND LOCATIONS ARE APPROXIMATE AND ARE BASED OFF OF SURVEY AND RECORD DRAWING INFORMATION OBTAINED FROM THE CITY.
 3. THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES WHERE PROPOSED UTILITIES ARE BEING CONNECTED, PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF A CONFLICT IS DISCOVERED.
 4. SEE MEP FOR CONTINUATION OF WATER AND SANITARY SEWER LINES.
 5. CONTRACTOR SHALL REFERENCE GENERAL NOTES SHEET FOR ADDITIONAL INFORMATION. INFORMATION ON THE GENERAL NOTES SHEET IS PART OF A UNIFIED DESIGN AND IS PERTINENT TO THIS PLAN SHEET.
 6. PRIVATE DOMESTIC WATER SERVICE LINE SHALL BE CLASS 200, DR9 HDPE PIPE (POLYPIPE PW-PE3408/PE3608 OR APPROVED EQUAL).
 7. CONTRACTOR SHALL CALL CITY OF MERCEDES PUBLIC WORKS AT (956) 565-6147 FOR UTILITY LOCATIONS PRIOR TO ANY WORK IN THE CITY EASEMENTS OR STREET RIGHT OF WAY.
 8. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ALL FRANCHISE UTILITY COMPANIES AND ENSURING ALL NECESSARY UTILITIES ARE AVAILABLE FOR THIS PROJECT. THE CONTRACTOR SHALL REFERENCE MEP FOR SPECIFIC INFORMATION REGARDING SITE ELECTRICAL, GAS, DATA, COMMUNICATION, ETC... DESIGN OF FRANCHISE UTILITIES IS NOT THE RESPONSIBILITY OF THE CIVIL ENGINEER. THEREFORE, ANY FRANCHISE UTILITIES DEPICTED ON THIS PLAN ARE CONCEPTUAL ONLY AND NOT INTENDED FOR CONSTRUCTION PURPOSES OR TO INDICATE FINAL FRANCHISE UTILITY LAYOUTS OR LOCATIONS. THE CONTRACTOR SHALL COORDINATE WITH THE FRANCHISE UTILITY COMPANIES, OWNER, AND THE MEP ENGINEER TO ENSURE PROPER AND ADEQUATE INSTALLATION OF ALL NECESSARY FRANCHISE UTILITIES TO SERVE THE PROJECT.

LEGEND

— EX. W/L	EXISTING WATER LINE
— PRO. W/L	PROPOSED WATER LINE
- - - - - PRO. S/S	PROPOSED SANITARY SEWER
— SS	EXISTING SANITARY SEWER

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WATER & SEWER PLAN



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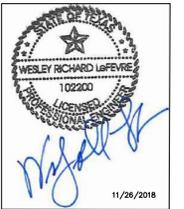
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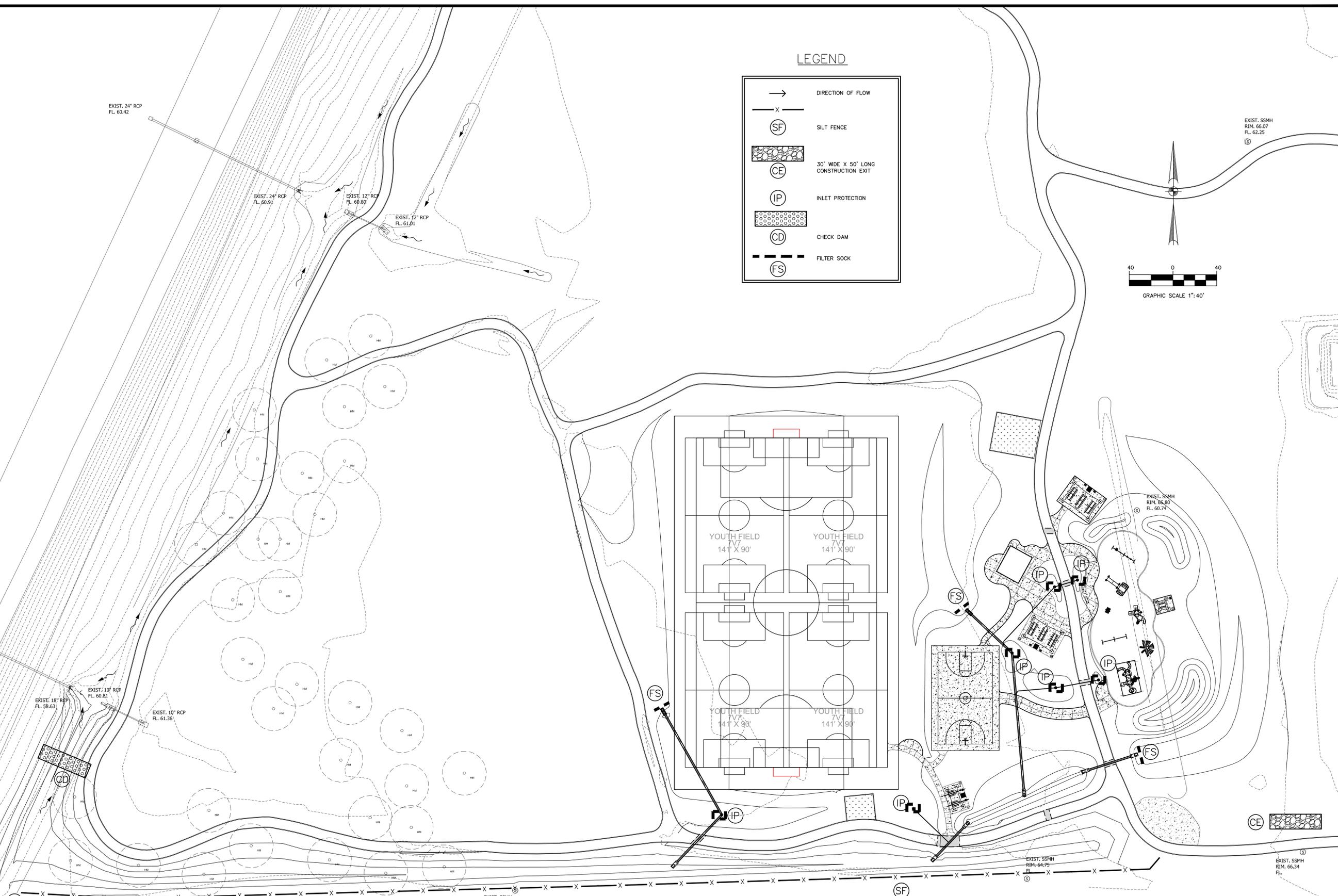
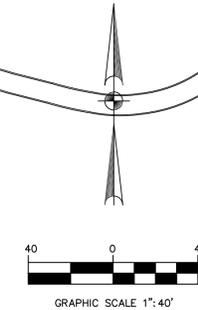
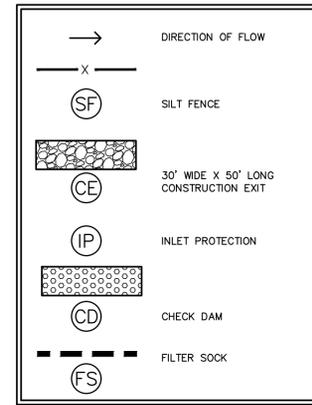
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LEGEND

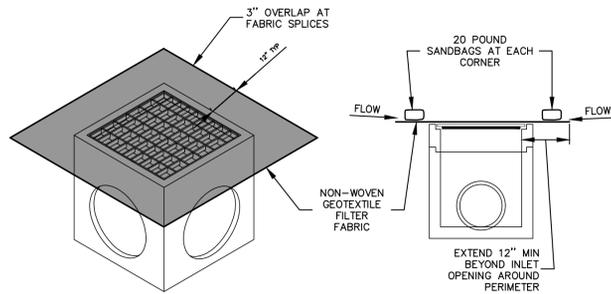


NOTES

1. CONTRACTOR SHALL REFERENCE GENERAL NOTES SHEET FOR ADDITIONAL INFORMATION. INFORMATION ON THE GENERAL NOTES SHEET IS PART OF A UNIFIED DESIGN AND IS PERTINENT TO THIS PLAN SHEET.
2. ALL DISTURBED AREAS TO BE SEEDDED OR SODDED.

EROSION CONTROL PLAN

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ISOMETRIC

CROSS SECTION

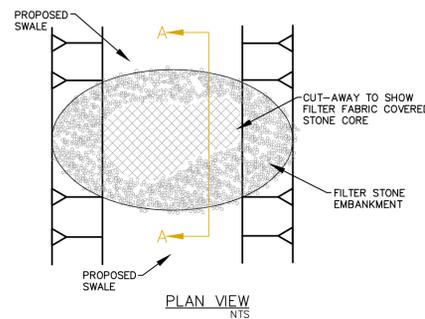
NOTES:

- DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 2".
- CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND IMMEDIATELY CLEAN THE INLET PROTECTION IF EXCESSIVE PONDING OCCURS.
- INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.

AREA INLET PROTECTION DETAIL

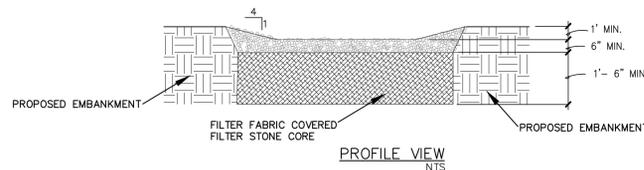
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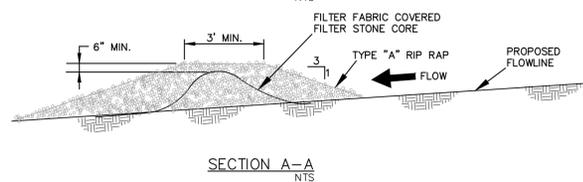
PLAN VIEW

N.T.S.



PROFILE VIEW

N.T.S.



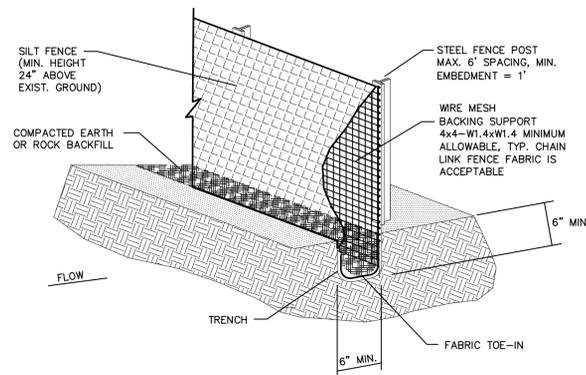
SECTION A-A

N.T.S.

ROCK CHECK DAM

(CD)

N.T.S.



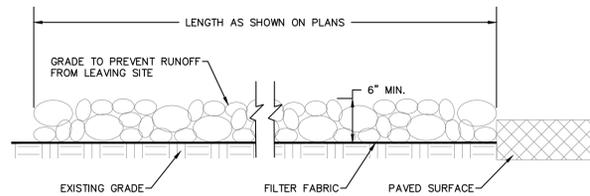
SILT FENCE GENERAL NOTES:

- STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
- THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWN SLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (E.G. PAVEMENT), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
- THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
- SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IN TURN IS ATTACHED TO THE STEEL FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
- INSPECTION SHALL BE MADE EVERY TWO WEEKS AND AFTER EACH 1/2" RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
- ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

CONSTRUCTION OF A FILTER BARRIER

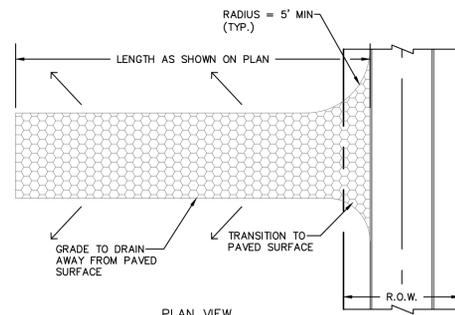
(FB)

N.T.S.



PROFILE VIEW

N.T.S.



PLAN VIEW

N.T.S.

STABILIZED CONSTRUCTION ENTRANCE

(CE)

N.T.S.

CONSTRUCTION ENTRANCE

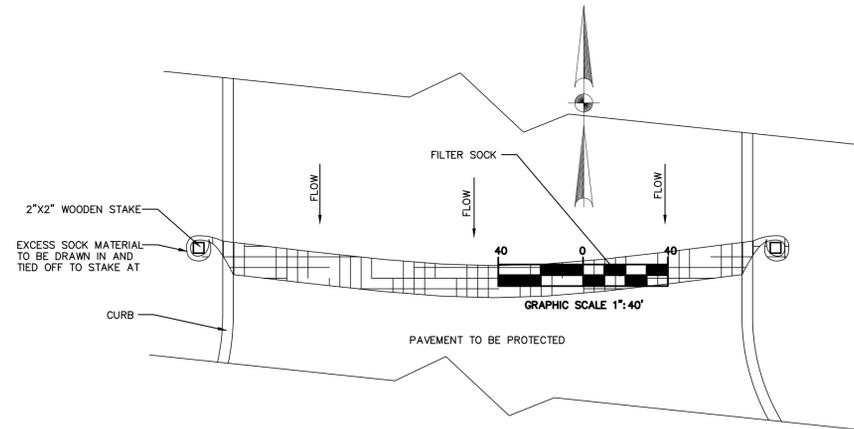
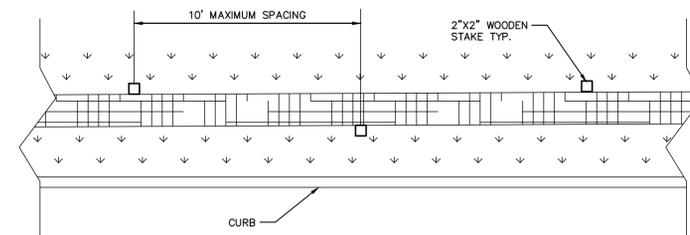
(CE)

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STABILIZED CONSTRUCTION ENTRANCE GENERAL NOTES:

- LIMIT SITE ACCESS TO ONE ROUTE DURING CONSTRUCTION, IF POSSIBLE; TWO ROUTES FOR LINEAR AND LARGER PROJECTS.
- PREVENT TRAFFIC FROM AVOIDING OR SHORTCUTTING THE FULL LENGTH OF THE CONSTRUCTION EXIT BY INSTALLING BARRIERS. BARRIERS MAY CONSIST OF SILT FENCE, CONSTRUCTION SAFETY FENCING, OR SIMILAR BARRIERS.
- DESIGN THE ACCESS POINT(S) TO BE AT THE UPSLOPE SIDE OF THE CONSTRUCTION SITE. DO NOT PLACE CONSTRUCTION ACCESS AT THE LOWEST POINT ON THE CONSTRUCTION SITE.
- STABILIZED CONSTRUCTION EXITS ARE TO BE CONSTRUCTED SUCH THAT DRAINAGE ACROSS THE EXIT IS DIRECTED TO A CONTROLLED, STABILIZED OUTLET ON-SITE WITH PROVISIONS FOR STORAGE, PROPER FILTRATION, AND REMOVAL OF WASH WATER.
- THE EXIT MUST BE SLOPED AWAY FROM THE PAVED SURFACE SO THAT STORM WATER FROM THE SITE DOES NOT DISCHARGE THROUGH THE EXIT ONTO ROADWAYS.
- MINIMUM WIDTH OF EXIT SHALL BE 15 FEET.
- THE CONSTRUCTION EXIT MATERIAL SHALL BE A MINIMUM THICKNESS OF 6 INCHES. THE STONE OR RECYCLED CONCRETE USED SHALL BE 3-5 INCHES IN SIZE WITH LITTLE OR NO FINES.
- THE GEO-TEXTILE FABRIC MUST MEET THE FOLLOWING CRITERIA:
 - TENSILE STRENGTH, ASTM D4632 TEST METHOD FOR GRAB BREAKING LOAD AND ELONGATION OF GEO-TEXTILES, 300 LBS.
 - PUNCTURE STRENGTH, ASTM D4833 TEST METHOD FOR INDEX PUNCTURE RESISTANCE OF GEO-TEXTILES, GEO-MEMBRANES, AND RELATED PRODUCTS, 120 LBS.
 - MULLEN BURST RATING, ASTM D3786 STANDARD TEST METHOD FOR HYDRAULIC BURSTING STRENGTH OF TEXTILE FABRICS-DIAPHRAGM BURSTING STRENGTH TESTER METHOD, 600 PSI.
 - APPARENT OPENING SIZE, ASTM D4751 TEST METHOD FOR DETERMINING APPARENT OPENING SIZE OF A GEO-TEXTILE, U.S. SIEVE NO. 40 (MAX)
- WHEN NECESSARY, VEHICLES SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO A PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WITH DRAINAGE FLOWING AWAY FROM BOTH THE STREET AND THE STABILIZED ENTRANCE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED SURFACES. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PAVED SURFACES MUST BE REMOVED IMMEDIATELY.

MINIMUM EXIT DIMENSIONS		
DISTURBED AREA	MIN. WIDTH OF EXIT	MIN. LENGTH OF EXIT
< 1 ACRE	15 FEET	20 FEET
≥ 1 ACRE BUT < 5 ACRE	25 FEET	50 FEET
≥ 5 ACRES	30 FEET	50 FEET



FILTER SOCK GENERAL NOTES:

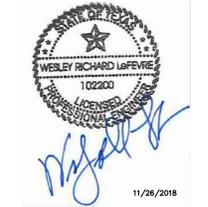
- ALL MATERIAL TO MEET MANUFACTURER SPECIFICATIONS
- FILTER SOCK TO BE FILTREXX INLET SOCKS OR APPROVED EQUAL
- INSPECTION SHALL BE MADE EVERY TWO WEEKS AND AFTER EACH 1/2" RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- FILTER SOCK SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
- ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE SOCK. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.
- COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

FILTER SOCK INSTALLATION

(FS)

N.T.S.

EROSION CONTROL DETAILS



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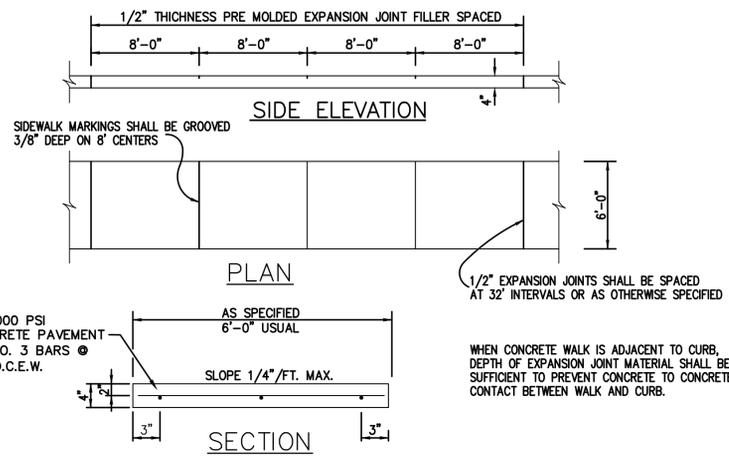
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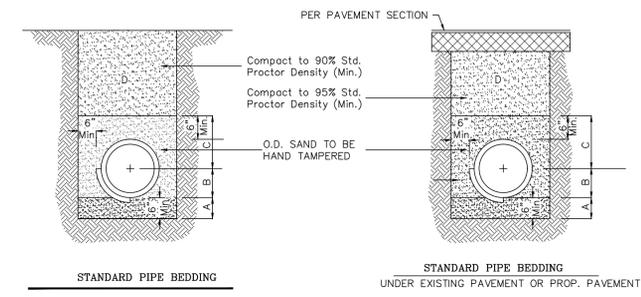
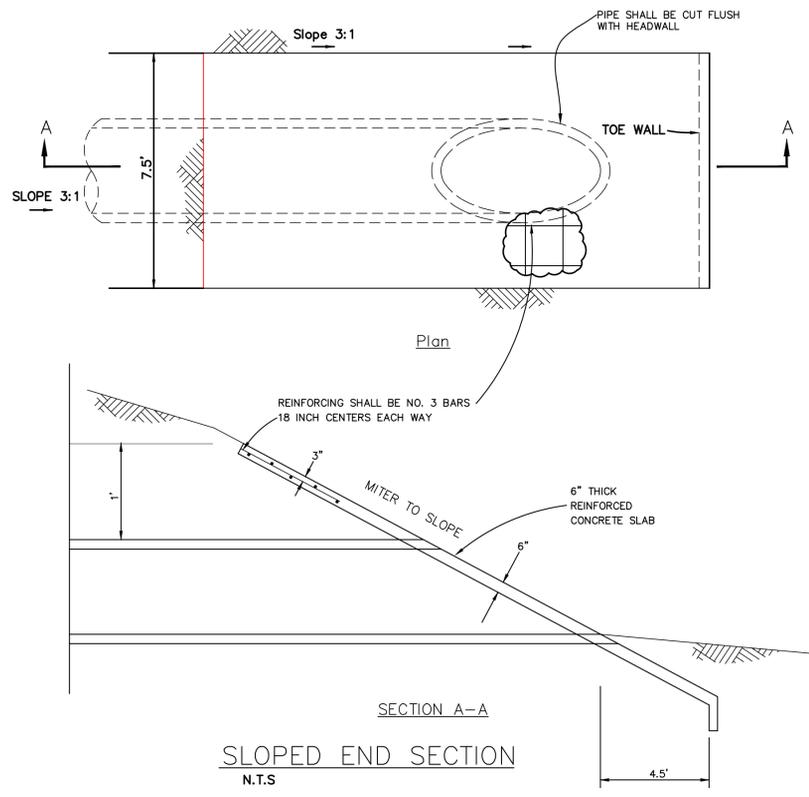
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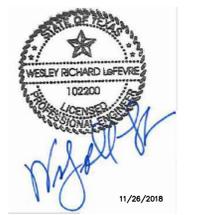
CONCRETE SIDEWALK
N.T.S.



- A. SAND BEDDING TO BE PLACED BEFORE PIPE IS LAID UP TO FLOW LINE OF PIPE (MIN. THICKNESS = 6")
- B. SAND BACKFILL PLACED AFTER PIPE IS LAID FROM BOTTOM OF PIPE TO SPRING LINE OF PIPE. (4" LIFTS, WATER JET, HAND TAMPED)
- C. SAND BACKFILL PLACED FROM SPRING LINE OF PIPE TO 6" ABOVE TOP OF PIPE. (6" LIFTS, HAND TAMPED)
- D. FILL TRENCH W/SELECT BACKFILL, W/8" LIFTS COMPACT TO 90% STD. PROCTOR
- FOUNDATION PREPARATION (WELLPOINTS, GRAVEL OR CEMENT STABILIZATION, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE.
- BACKFILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENTS AND COMPACTED TO 90% STANDARD PROCTOR DENSITY. THE THICKNESS OF EACH LOOSE LAYER SHALL BE SAND, APPROVED SITE SOIL OR OTHER APPROVED SUBSTITUTE.
- STORM LINE - BACKFILL A,B,C,D SAND TO BE ARROYO SAND W/ PI <15

BEDDING AND TRENCH BACKFILL DETAIL
SCALE: N.T.S.

MISCELLANEOUS DETAILS



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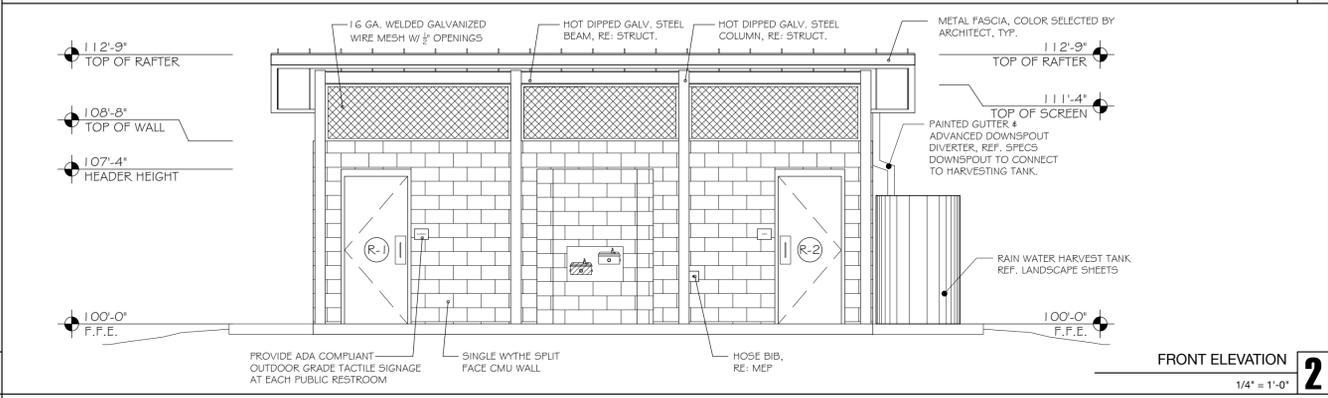
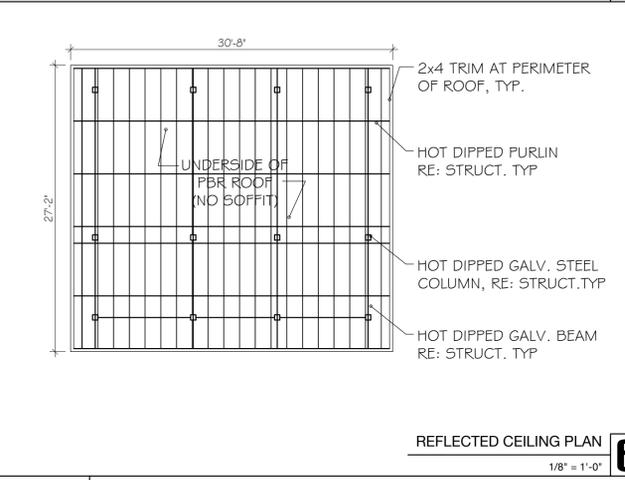
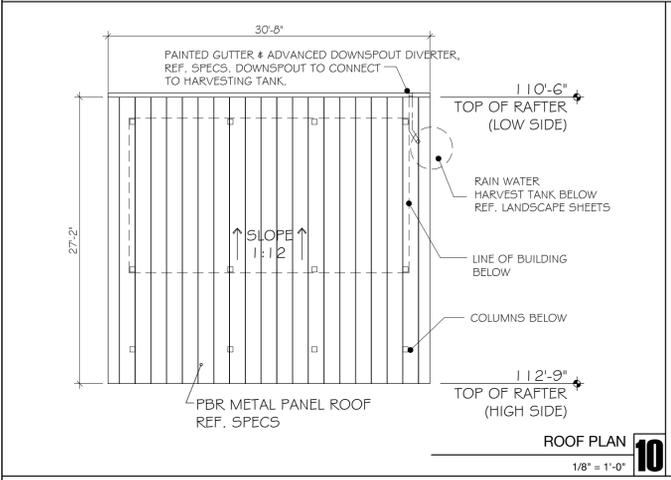
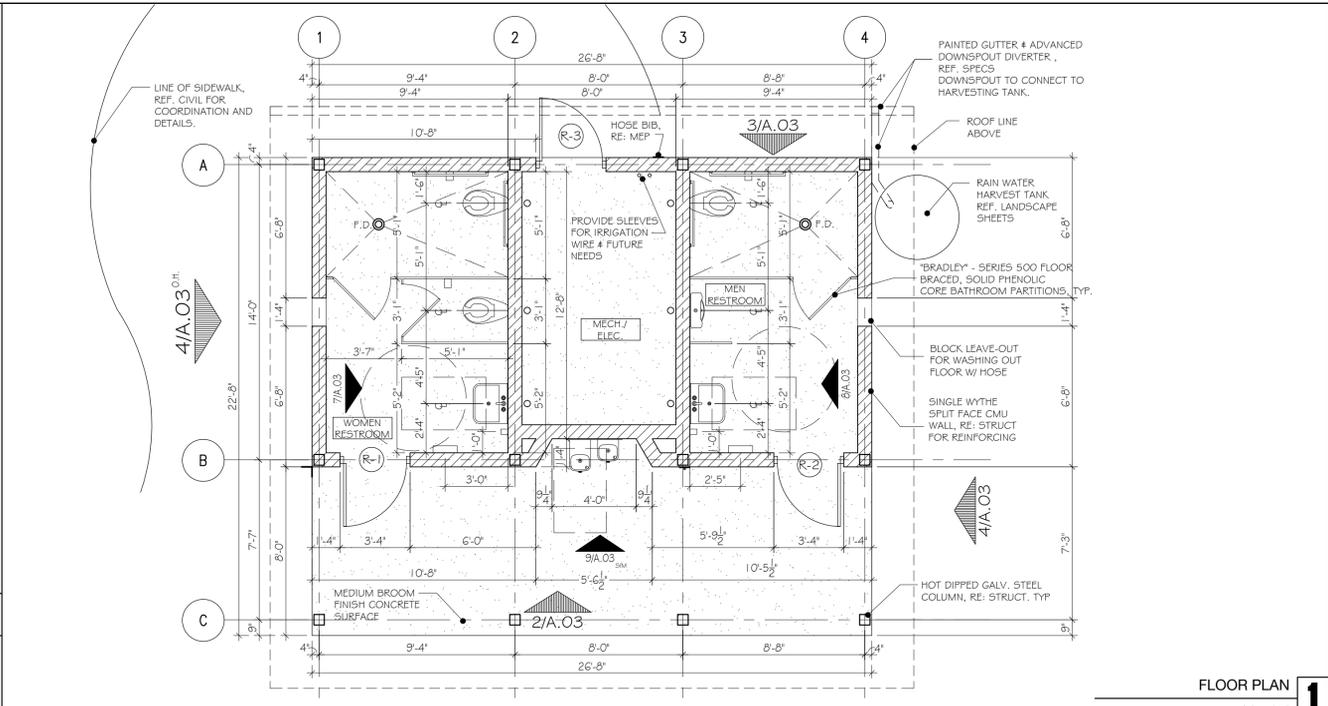
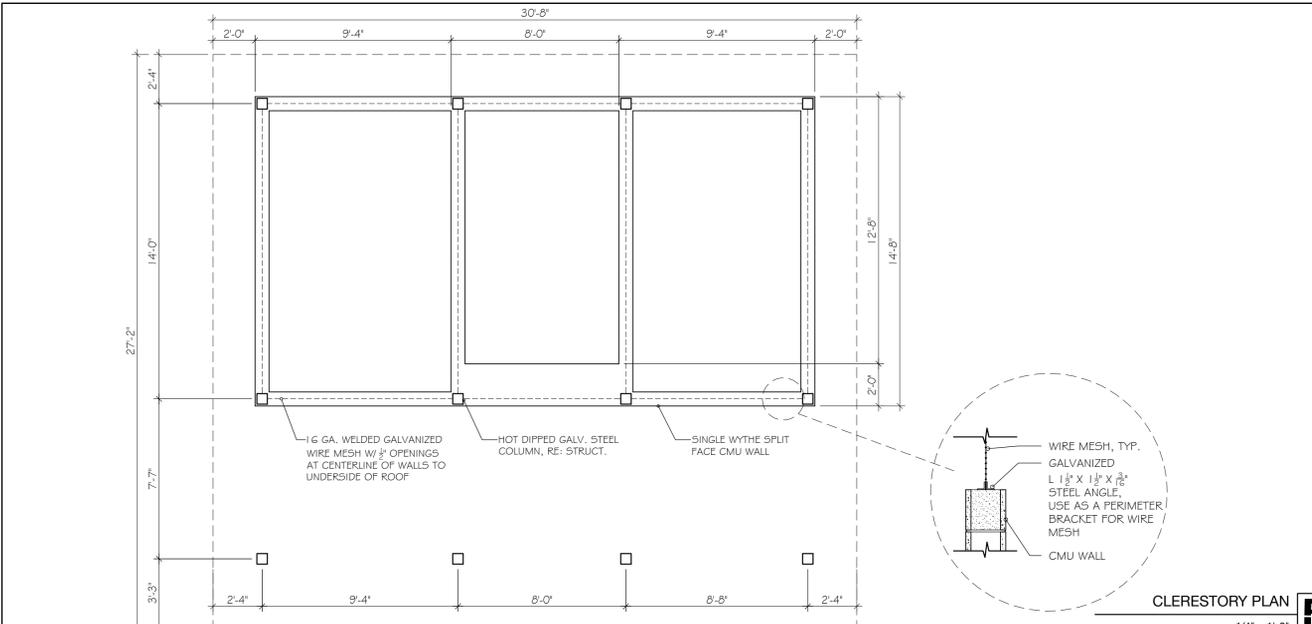
CIVIL ENGINEERING
ENVIRONMENTAL ENGINEERING
PLANNING
PROJECT MANAGEMENT

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MERCEDES
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USA
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JOB #: 2017-019
PHASE: S.D.
DATE: 07.19.2018
DRAWN BY: SRG
CHECKED BY: SRG



ROOM FINISH SCHEDULE

ROOM NAME	FLOOR	BASE	WALLS	CEILING
WOMEN'S RESTROOM	BROOM FINISH CONCRETE	NONE	PAINTED CMU, TREAT W/ ANTI-GRAFFITI COATING	OPEN TO UNDERSIDE OF ROOF
MEN'S RESTROOM	BROOM FINISH CONCRETE	NONE	PAINTED CMU, TREAT W/ ANTI-GRAFFITI COATING	OPEN TO UNDERSIDE OF ROOF
MECH. / ELEC.	BROOM FINISH CONCRETE	NONE	PAINTED CMU, TREAT W/ ANTI-GRAFFITI COATING	OPEN TO UNDERSIDE OF ROOF

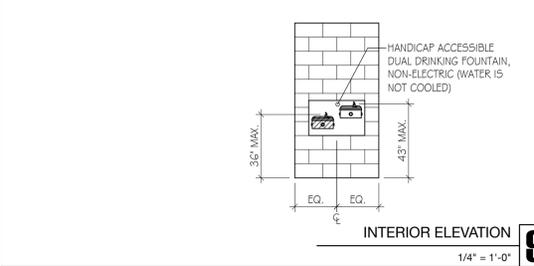
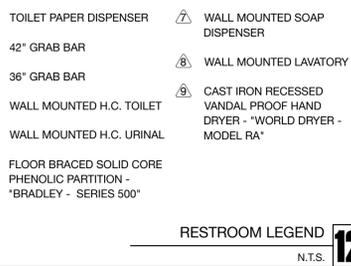
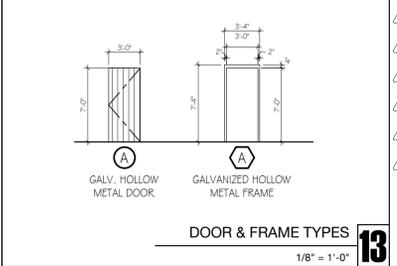
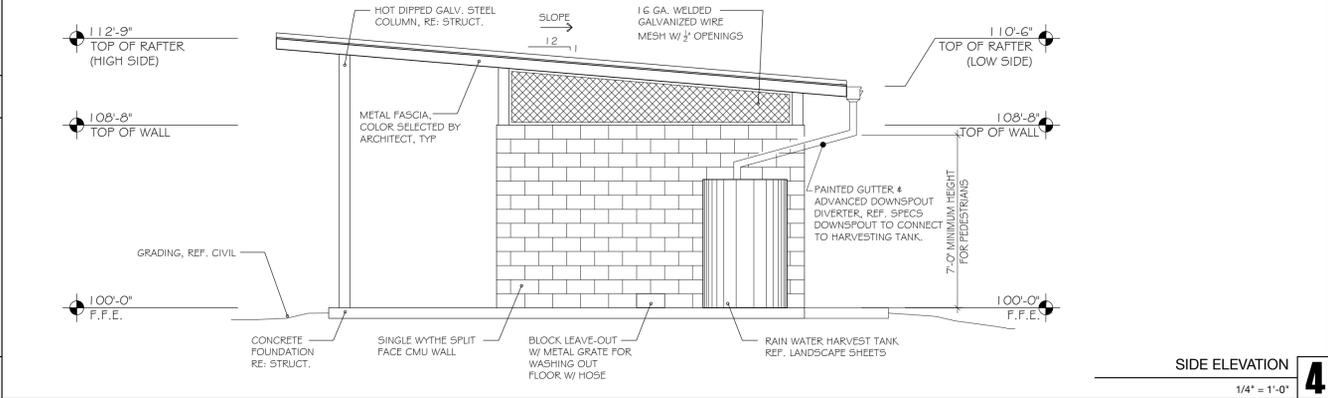
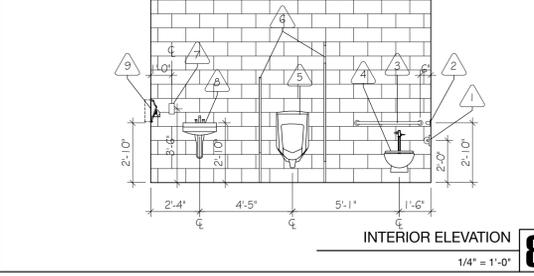
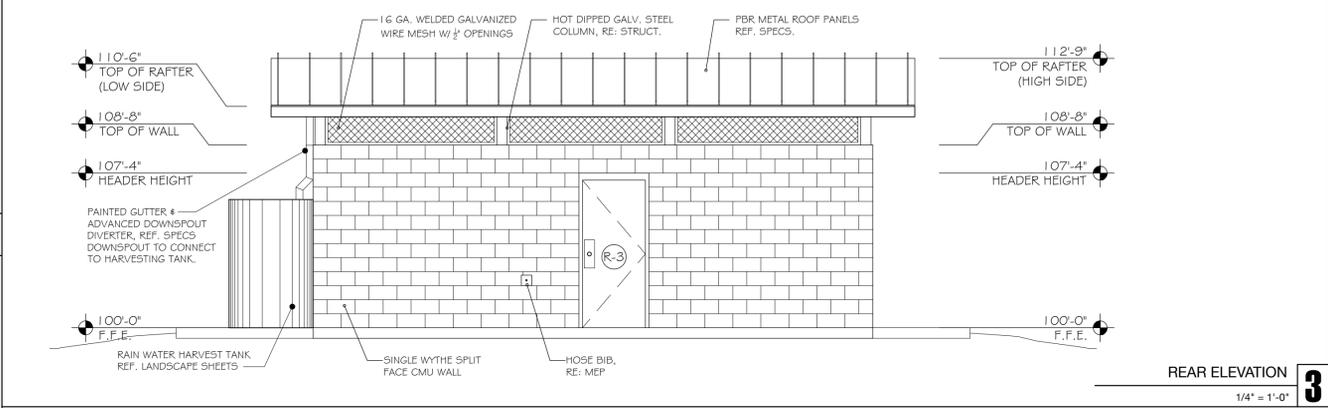
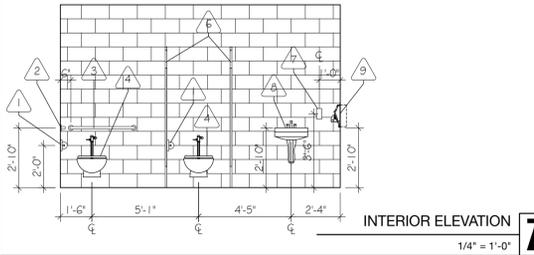
DOOR SCHEDULE

DOOR		FRAME		NOTES		
MARK	TYPE	TYPE	FINISH	TYPE	FINISH	
R-1	A	3'-0"	7'-0"	GHM	PTD	NO LOCKSET
R-2	A	3'-0"	7'-0"	GHM	PTD	NO LOCKSET
R-3	A	3'-0"	7'-0"	GHM	PTD	PROVIDE LOCKSET, ALONG WITH LATCH & LOCK PROTECTOR

ABBREVIATIONS

GHM	GALVANIZED HOLLOW METAL	PTD	PAINTED
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SCHEDULES
N.T.S. **11**



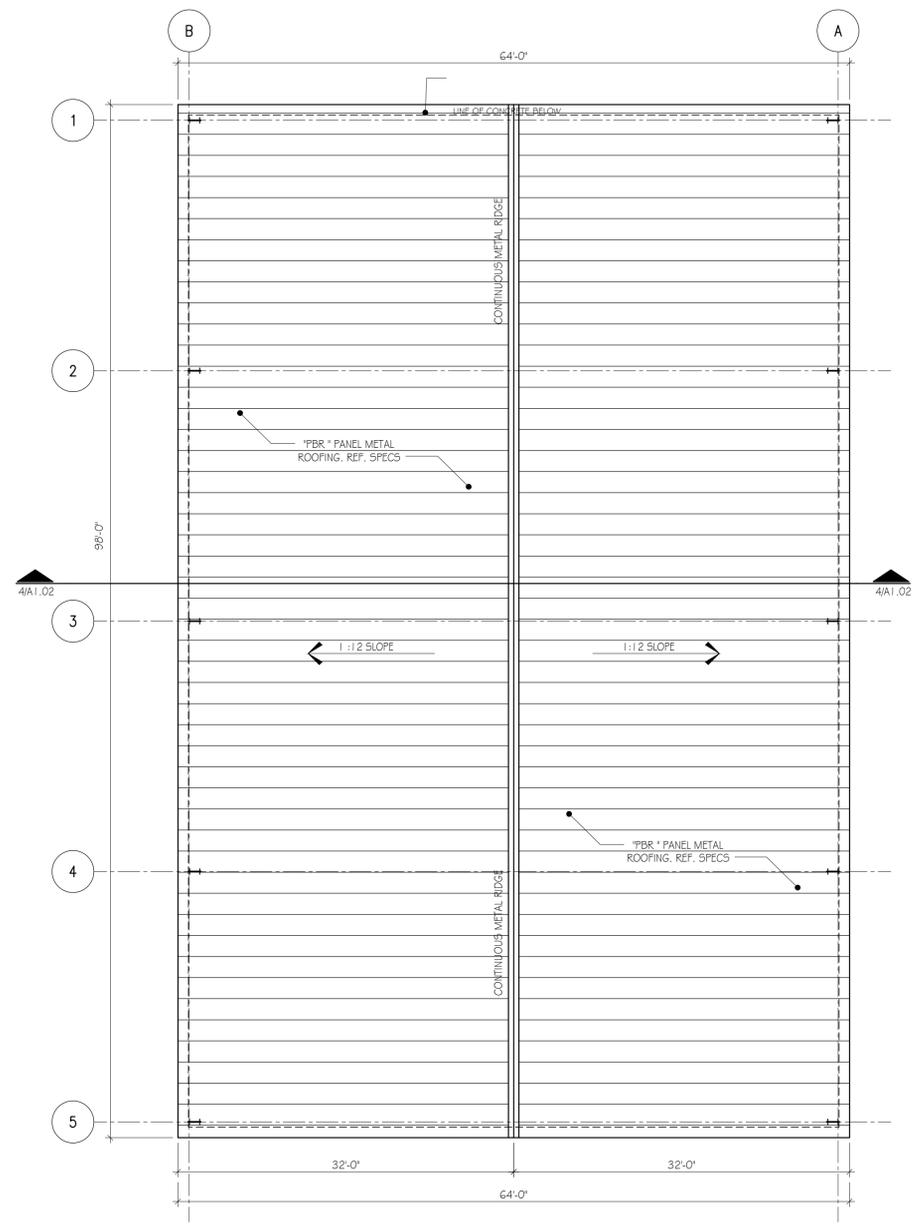
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**MERCEDES
SPORTS PARK - 1
SPHASE** USA
MERCEDES, TEXAS

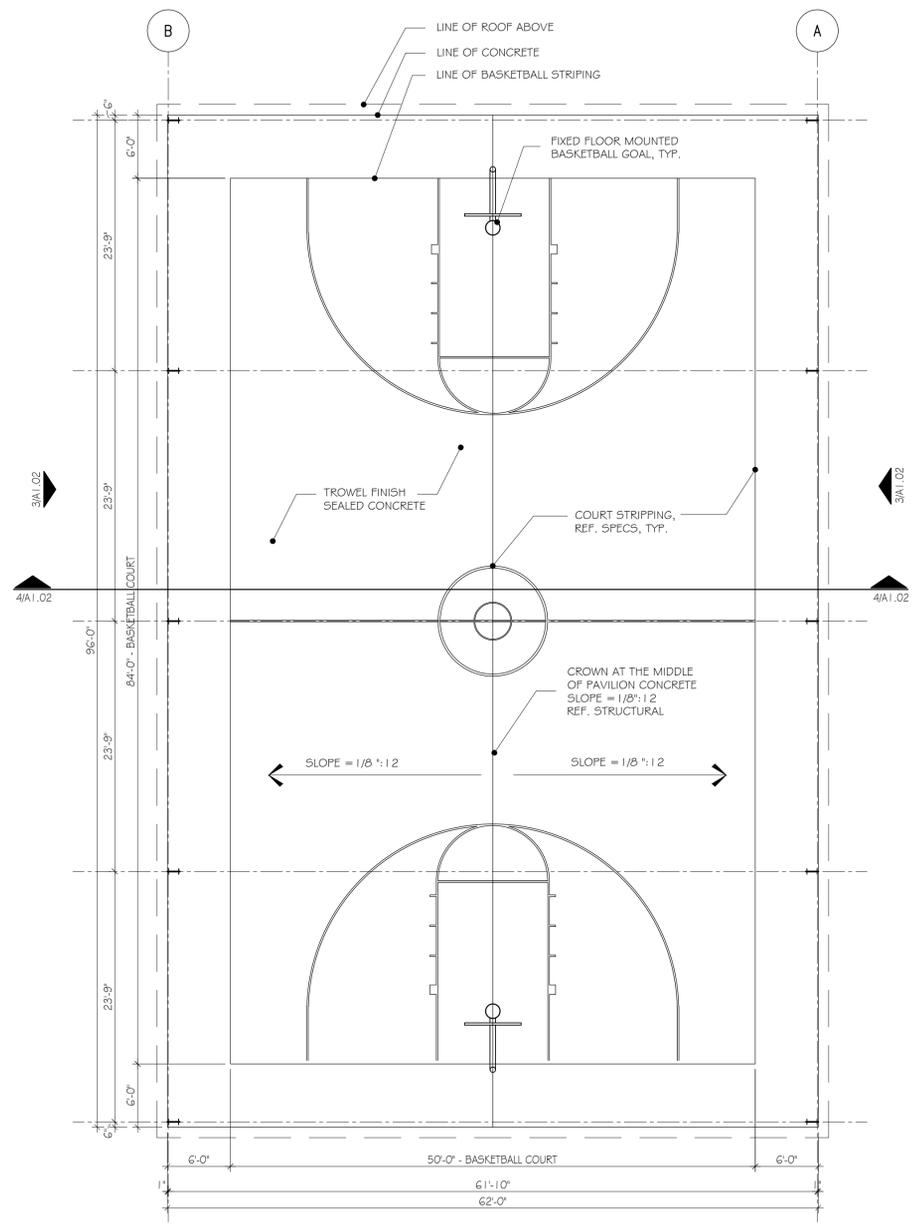
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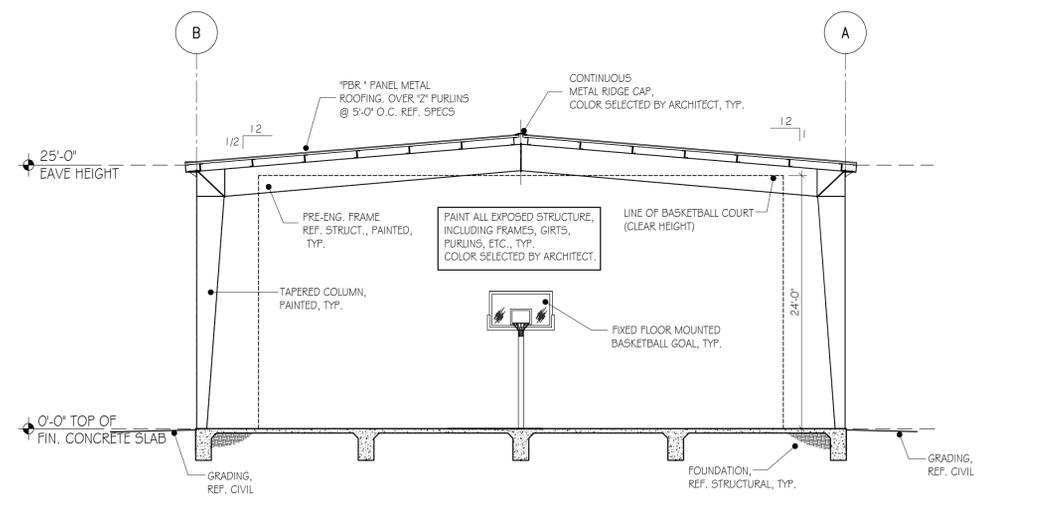
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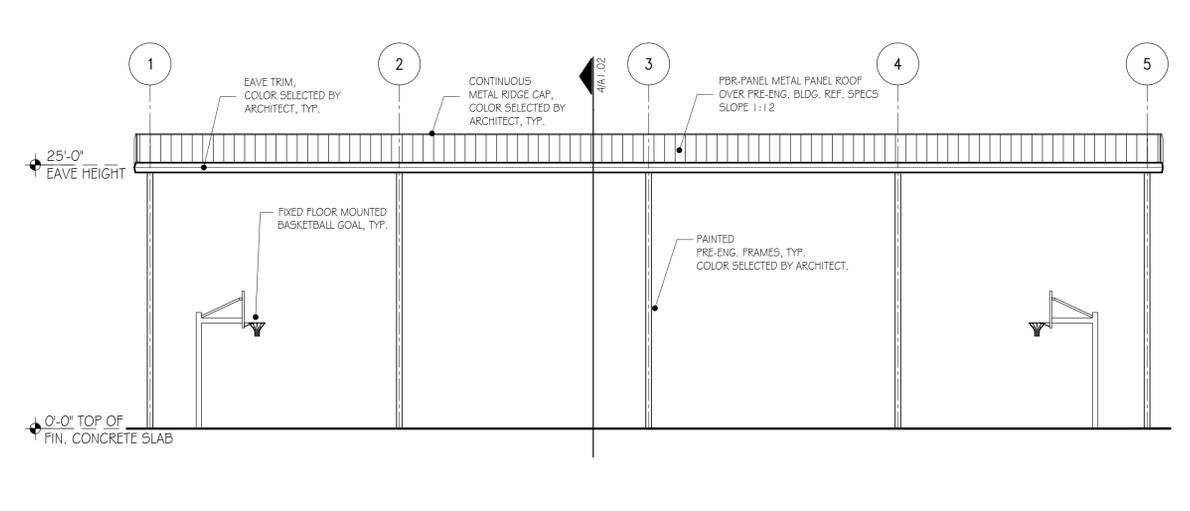
ROOF PLAN PAVILION 2
1/8" = 1'-0"



FLOOR PLAN PAVILION 1
1/8" = 1'-0"



SECTION PAVILION 4
1/8" = 1'-0"



ELEVATION PAVILION 3
1/8" = 1'-0"



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PAVILION
BASKETBALL COURT

A1.02

GENERAL NOTES

GENERAL

- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMEN, AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, SHORING FOR THE EARTH BANKS, FORMS, SCAFFOLDING, PLANNING, SAFETY NETS, SUPPORT AND BRACING FOR CRANES, GIN POLES, ETC. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
- IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
- EQUIPMENT FRAMING LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO HVAC, PLUMBING, OR ELECTRICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. EXACT WEIGHTS AND LOCATIONS OF MECHANICAL EQUIPMENT SHALL BE COORDINATED BY CONTRACTOR. IF THE FINAL LOCATION VARIES FROM THAT SHOWN ON THE PLANS, CONTRACTOR TO NOTIFY ARCHITECT AND ENGINEER FOR APPROVAL BEFORE INSTALLATION.
- SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THESE STRUCTURAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN.
- THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE AND SHALL BE RESPONSIBLE FOR CONDITIONS OF ALL WORK AND MATERIALS.
- THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS AND ELEVATIONS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES IN WRITING TO THE ARCHITECT. ANY CONFLICT BETWEEN THE DRAWING AND SPECIFICATIONS OF THE VARIOUS TRADES INVOLVED SHALL BE REPORTED TO THE ARCHITECT AND ENGINEER.
- DETAILS SHOWN ON DRAWINGS APPLY AT SIMILAR CONDITIONS.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL STANDARDS AND TO ALL APPLICABLE PROVISIONS OF THE GOVERNING BUILDING CODE.
- THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED IN WRITING WHEN WORK COMMENCES.
- CONTRACTOR SUBSTITUTIONS: ANY MATERIALS OR PRODUCTS THAT ARE SUBMITTED FOR APPROVAL THAT ARE DIFFERENT FROM THE MATERIALS OR PRODUCTS SPECIFIED IN THE CONTRACT DOCUMENTS WILL ONLY BE CONSIDERED IF THE FOLLOWING CRITERIA ARE SATISFIED.
 - A COST SAVING TO THE OWNER IS DOCUMENTED AND SUBMITTED WITH THE REQUEST
 - THE MATERIAL OR PRODUCT HAS BEEN APPROVED BY THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS (ICBO) AND THE ICBO REPORT IS SUBMITTED WITH THE REQUEST.

STRUCTURAL OBSERVATION

- THE PROFESSIONAL ENGINEER OR HIS/HER AUTHORIZED REPRESENTATIVE SHALL CONDUCT ALL STRUCTURAL OBSERVATIONS. STRUCTURAL OBSERVATIONS SHALL BE FOR THE PURPOSE OF ASCERTAINING GENERAL COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. HOWEVER, SUCH OBSERVATION VISITS SHALL NOT RELIEVE THE CONTRACTOR FROM HIS OBLIGATIONS AND RESPONSIBILITIES TO THE CONSTRUCTION DOCUMENTS.
- ITEMS THAT REQUIRE A STRUCTURAL OBSERVATION ARE AS FOLLOWS:
 - STEEL REINFORCEMENT IN SLAB OR FOUNDATION
 - FRAMING OF ROOF STRUCTURE BEFORE METAL PANELS ARE INSTALLED
 - CMU WALL REINFORCING BEFORE FILLING WITH GROUT
- NOTIFY ENGINEER 24 HOURS IN ADVANCE WHEN A STRUCTURAL OBSERVATION IS REQUIRED.
- WORK SHALL NOT CONTINUE AT THESE AREAS UNTIL OBSERVATION AND APPROVAL BY ENGINEER. FAILURE BY THE CONTRACTOR TO PROVIDE PROPER NOTICE FOR AN OBSERVATION VISIT AT THE REQUIRED TIME OR ADDITIONAL WORK PERFORMED WITHOUT AN OBSERVATION VISIT WILL BE DONE AT CONTRACTOR'S RISK AND MAY BE SUBJECT TO COMPLETE OR PARTIAL REMOVAL TO VERIFY COMPLIANCE OF PREVIOUS WORK.

SHOP DRAWINGS & SUBMITTALS

- SUBMITTAL THAT WILL BE REQUIRED FOR APPROVAL INCLUDE:
 - CONCRETE MIX DESIGN
 - CURING COMPOUND FOR CONCRETE
 - REINFORCING STEEL
 - STRUCTURAL STEEL
 - CMU WALL COMPONENTS
- DEFERRED SUBMITTALS THAT WILL REQUIRE APPROVAL INCLUDE:
 - PRE-ENGINEERED BUILDING CALCULATIONS (INCLUDING REACTIONS)
- DEFERRED SUBMITTALS SHALL BE DESIGNED BY A TEXAS REGISTERED PROFESSIONAL ENGINEER ACCORDING TO THE DESIGN CRITERIA STATED IN THE PLANS AND SPECIFICATIONS. THE SUBMITTAL SHALL INCLUDE SIGNED AND SEALED CALCULATIONS.
- ALLOW (2) WEEKS MINIMUM FOR REVIEW OF SHOP DRAWINGS.
- PRIOR TO ISSUING THE SUBMITTALS TO THE ENGINEER, THE CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSION WITH ARCHITECTURAL PLANS.
- REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS FOR GENERAL CONFORMANCE TO THE STRUCTURAL DRAWINGS. APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR FOR ANY ERRORS IN DIMENSIONS OR MATERIAL INDICATED ON THE SHOP DRAWINGS.

DESIGN CRITERIA

- DESIGN LOADS, STRUCTURAL ANALYSIS AND PREPARATION OF STRUCTURAL MEMBERS ARE BASED ON THE FOLLOWING CRITERIA:
- CODE: IBC 2012
- VERTICAL LOADS
 - ROOF DEAD LOAD (PRE-ENGINEERED BUILDING): STRUCTURE SELF WEIGHT
 - ROOF DEAD LOAD (RESTROOM): 10 PSF
 - COLLATERAL LOAD (PRE-ENGINEERED BUILDING): 10 PSF
 - ROOF LIVE LOAD (REDUCIBLE) : 20 PSF
 - UPLIFT LOAD SEE ROOF UPLIFT PLAN
- MECHANICAL LOAD:
 - THE GENERAL CONTRACTOR SHALL SUBMIT ACTUAL WEIGHTS AND LOCATIONS OF EQUIPMENT TO BE USED IN THE PROJECT TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF LOADS USED IN THE DESIGN AT LEAST TWO WEEKS PRIOR TO FABRICATION AND CONSTRUCTION OF THE SUPPORTING STRUCTURE.
- LATERAL LOADS
 - WIND SPEED (V-ULT): 136 MPH
 - WIND SPEED (V-ASD) 105 MPH
 - EXPOSURE CATEGORY: C
 - IMPORTANCE FACTOR: 1.0
 - BUILDING CATEGORY: II
 - SEISMIC DESIGN CATEGORY: A
 - SITE CLASS: D
- GEOTECHNICAL ENGINEERING REPORT:
 - PROVIDED BY: MILLENNIUM ENGINEERS GROUP, INC.
 - PROJECT NUMBER: 01-18-29173
 - DATE: 8/17/18

FOUNDATION DESIGN BASED ON THE FOLLOWING PARAMETERS

 - EFFECTIVE PL: 23
 - CLIMATIC RATING (Cw): 15
 - MINIMUM BEAM DEPTH: 24 IN
 - MAXIMUM BEAM DEPTH: 36 IN
 - MAXIMUM BEAM WIDTH: 30 IN
 - MAXIMUM FOOTING WIDTH: 60 IN
 - ALLOWABLE BEARING CAPACITY (BEAMS) 1800 PSF
 - ALLOWABLE BEARING CAPACITY (FOOTING) 2100 PSF
 - EXISTING PVR: 2 1/2 IN
 - PVR (CUT 12 IN FILL 36 IN) 1 INCH

CONCRETE

- ALL CONCRETE WORK SHALL BE EXECUTED IN ACCORDANCE WITH ACI 318 AND ACI 301 LATEST EDITION.
- CEMENT SHALL CONFORM TO ASTM C150 TYPE I AGGREGATE SHALL CONFORM TO ASTM C33.
- CONCRETE SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH AS FOLLOWS:

MEMBER TYPE	STRENGTH	SLUMP	MAX AGG.
FOUNDATION AND SLAB	3000 PSI	4"-6"	1.5 IN.
- INSTALL 10 MIL VAPOR RETARDER UNDER SLABS ON GRADE AND ALONG SIDE OF TRENCHES IN ACCORDANCE WITH ASTM E1643. LAP JOINTS MINIMUM OF 12 INCHES.
- PLACE CONCRETE CONTINUOUSLY BETWEEN PRE-DETERMINED EXPANSION AND CONSTRUCTION JOINTS.
- ALL CONSTRUCTION JOINT LOCATIONS TO BE APPROVED BY ARCHITECT AND STRUCTURAL ENGINEER.
- HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE PERMITTED.
- CURE CONCRETE IN ACCORDANCE WITH ACI 308.1
- REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR LOCATIONS OF ALL DEPRESSIONS, OPENINGS, ACCESSORIES, ETC.
- CONDUIT AND PLUMBING LINES SHALL BE PLACED BELOW SLAB REINFORCING AND SHALL BE NO BIGGER THAN 1 INCH.
- FLYASH MAY BE USED TO REPLACE A PORTION OF THE PORTLAND CEMENT. THE RATIO OF FLYASH TO THE TOTAL OF THE FLYASH AND CEMENT IN A MIX SHALL NOT EXCEED 20%. FLYASH SHALL CONFORM TO ASTM C618, TYPE C OR F.
- ALL FLOORS SHALL BE CONSTRUCTED WITH A MINIMUM FLATNESS FF = 35 AND A MINIMUM LEVELNESS OF FL = 25
- CONTRACTION JOINTS TO BE INSTALLED WITHIN 12 HOURS OF POURING FOUNDATION.
- TESTING OF CONCRETE SHALL BE DONE AS FOLLOWS:
 - SETS SHALL CONSIST OF 3 CYLINDERS
 - ONE TESTED AT 7 DAYS
 - TWO TESTED AT 28 DAYS
 - ONE SET SHALL BE TAKEN FOR EACH 150 CY AND FOR EVERY 5000 SF OF SURFACE AREA AND AT LEAST ONCE PER DAY OF POURING
 - A MINIMUM OF 3 SETS SHALL BE TAKEN FOR EACH CLASS OF CONCRETE
- NO WATER SHALL BE ADDED TO THE CONCRETE AT THE JOBSITE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE CONCRETE SUPPLIER TO ENSURE A PUMPABLE AND WORKABLE MIX WITHOUT THE ADDITION OF WATER AT THE JOBSITE. THE USE OF PLASTICIZERS, RETARDANTS AND OTHER ADDITIVES SHALL BE AT THE OPTION OF THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER. FOLLOW THE RECOMMENDATIONS OF THE MANUFACTURER FOR THE PROPER USE OF ADDITIVES. THE USE OF CALCIUM CHLORIDE OR OTHER CHLORIDE BEARING SALTS SHALL NOT BE PERMITTED.
- PLACE CONCRETE IN A MANNER SO AS TO PREVENT SEGREGATION OF THE MIX. DELAY FLOATING AND TROWELING OPERATIONS UNTIL CONCRETE HAS LOST SURFACE WATER SHEEN OR ALL FREE WATER. DO NOT SPRINKLE FREE CEMENT ON THE SLAB SURFACE. FINISHING OF SLAB SURFACES SHALL COMPLY WITH THE RECOMMENDATIONS OF ACI 302.1 AND 304.
- UNLESS SPECIFIED, CONCRETE MUST REACH THE FOLLOWING PERCENTAGES OF ITS 28-DAY COMPRESSIVE STRENGTH (F_c), BEFORE FORMS MAY BE REMOVED.

WALL, COLUMNS, & BEAM SIDES.....	40%
JOIST PANS & BEAM BOTTOMS (IF RESHORED).....	70%
SHORING FOR FLOOR SYSTEMS (IF NOT RESHORED).....	85%
- NO CONCRETE SHALL BE PLACED OUTSIDE OF THESE SPECIFICATIONS WITHOUT THE OWNER'S PRIOR APPROVAL. ANY ITEMS NOT IN COMPLIANCE WITH THE OUTLINED SPECIFICATION SHALL BE REPORTED TO THE OWNER AND STRUCTURAL ENGINEER WITHIN 24 HOURS.
- CONSTRUCTION VEHICLE LOADS SHALL NOT BE PERMITTED ON ELEVATED SLABS AT ANY TIME.
- ALL RETAINING WALLS TO BE SHORED UNTIL UPPER SLAB IS IN PLACE AND HAS REACHED 70% OF ITS DESIGN STRENGTH OR THE RETAINING WALL HAS REACHED 100% OF ITS DESIGN STRENGTH. PROVIDE GRANULAR BACKFILL AND PERFORATED DRAIN PIPE CONNECTED TO SITE DRAINAGE. RE: CIVIL PLAN.

STRUCTURAL STEEL

- STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE TO AISC SPECIFICATIONS.
- MATERIALS USED SHALL BE AS FOLLOWS-

A. STRUCTURAL W-SHAPES	- ASTM A992 GRADE 50
B. STRUCTURAL M-SHAPES AND S-SHAPES	- ASTM A36
C. STRUCTURAL T-SHAPES	- CUT FROM W-SHAPES
D. CHANNELS AND ANGLES	- ASTM A36
E. ROUND HOLLOW STRUCTURAL SECTIONS	- ASTM A500 GRADE B
F. SQUARE AND RECTANGULAR HOLLOW STRUCTURAL SECTIONS	- ASTM A500 GRADE B
G. STRUCTURAL PLATES	- ASTM A36
H. STRUCTURAL BARS	- ASTM A36
I. HIGH STRENGTH BOLTS	- ASTM A325
J. ELECTRODES	- SERIES E70
- ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY SPECIFICATIONS.
- CONNECTIONS NOT DETAILED AND/OR SCHEDULED ON STRUCTURAL DRAWINGS SHALL BE DETAILED BY FABRICATOR AND MARKED FOR ENGINEERS APPROVAL. CONNECTIONS TO BE DESIGNED TO AISC SPECIFICATIONS AND SHALL BE CAPABLE OF SUPPORTING 55% OF THE MAXIMUM UNIFORM LOAD CAPACITY FOR THE SPAN SPECIFIED, SHOWN IN THE TABLES OF UNIFORM CONSTANTS OF THE AISC MANUAL OF STEEL CONSTRUCTION.
- REFER TO ARCHITECTURAL PLANS FOR ANY MISCELLANEOUS STEEL NOT SHOWN ON STRUCTURE DRAWING. MISCELLANEOUS STEEL AND CONNECTIONS SHALL BE DESIGNED BY STEEL FABRICATOR.
- HOT DIP GALVANIZE, IN ACCORDANCE WITH ASTM A123 AND ASTM A153, STRUCTURAL STEEL AND FASTENERS PERMANENTLY EXPOSED TO THE WEATHER.
- STEEL SUPPORTING OR CONNECTED TO HVAC AND OTHER EQUIPMENT AS SHOWN ON THE DRAWINGS IS SHOWN FOR BIDDING PURPOSES ONLY CONTRACTOR SHALL COORDINATE EXACT LOCATION AND SIZE BEFORE COMMENCING WORK.
- STRUCTURAL STEEL SHALL BE PAINTED WITH ONE COAT OF RUST INHIBITIVE PAINT.
- STRUCTURAL DRAWINGS SHALL NOT BE REPRODUCED IN WHOLE OR IN PART FOR SHOP DRAWING SUBMITTALS.
- ALL WELDED CONNECTIONS SHALL BE MADE WITH A 1/4" FILLET WELD U.N.O.
- PROVIDE 1/2" GAP AT ALL PENETRATIONS THROUGH CMU WALL AND INFILL WITH ELASTOMERIC MATERIAL.
- STEEL FABRICATOR SHALL BE CERTIFIED BY ONE OF THE FOLLOWING: AISC/ IBC/ IAS-ICC

PRE-ENGINEERED METAL BUILDING AND COMPONENTS

- REFER TO DESIGN CRITERIA FOR DESIGN LOAD REQUIREMENTS FOR THE PRE-ENGINEERED METAL BUILDING.
- PRE-ENGINEERED METAL BUILDING MANUFACTURER SHALL SUBMIT DESIGN CERTIFICATION SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF TEXAS FOR THE STRUCTURAL FRAMING AND COVERING PANELS OF THE BUILDING SYSTEM. CERTIFICATION AND DESIGN SHALL MEET REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE (IBC) AND ASCE 7.
- PRE-ENGINEERED METAL BUILDING MANUFACTURER CERTIFICATION SHALL BE SUBMITTED WITH SEALED SHOP DRAWINGS WHEN SUBMITTED FOR REVIEW.
- SHOP DRAWINGS AND CALCULATIONS INCLUDING BUILDING REACTIONS, SHALL BE PREPARED AND REVIEWED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF TEXAS. SEALED SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED FOR REVIEW BY THE DESIGN TEAM.
- ALL COMPONENTS SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST SPECIFICATIONS AND STANDARDS OF THE AISC. THIS WORK SHALL INCLUDE ALL MEMBERS AND BRACES NECESSARY TO BRACE MASONRY WALLS. LIGHT GAGE STEEL MEMBERS SHALL COMPLY WITH THE LATEST ADDITION OF THE AISI.
- PURLINS AND EAVE STRUTS SHALL HAVE A MINIMUM YIELD STRESS OF 55 KSI AND SHALL BE PAINTED WITH ONE COAT OF RED OXIDE OR APPROVED SHOP COAT.
- PURLIN SPACING SHOWN IN STRUCTURAL DRAWINGS ARE FOR SCHEMATIC PURPOSES ONLY. PURLIN SPACING TO BE DETERMINED BY METAL BUILDING MANUFACTURER. PURLINS SHALL HAVE A MAXIMUM TOTAL LOAD DEFLECTION OF L/180.
- SAG STRAPS SHALL BE LOCATED AS SHOWN ON PLANS AND SHALL BE FABRICATED WITH A MINIMUM YIELD STRENGTH OF 50 KSI.
- STANDING SEAM METAL ROOF SHALL NOT BE CONSIDERED TO PROVIDE LATERAL BRACING FOR PURLINS. BRIDGING SHALL BE DESIGNED AND SUPPLIED BY THE METAL BUILDING MANUFACTURER TO RESIST BOTH GRAVITY AND UPLIFT LOADS.
- CROSS BRACING SHALL BE DESIGNED AND SUPPLIED BY THE METAL BUILDING MANUFACTURER TO PROVIDE AN ADEQUATE HORIZONTAL ROOF DIAPHRAGM FOR THE STRUCTURE.
- PROVIDE PINNED BASE CONNECTION FROM COLUMN TO FOUNDATION.
- ALL ANCHOR BOLTS SIZES, LENGTH, AND EMBEDMENT SHALL BE DESIGNED BY THE METAL BUILDING MANUFACTURER AND SUPPLIED BY THE CONTRACTOR. ANCHOR BOLT EMBEDMENT DEPTHS SHALL BE DESIGNED TO RESIST CONCRETE CONICAL SHEAR FAILURE.
- THIS FOUNDATION HAS BEEN DESIGNED USING ASSUMED REACTIONS FROM THE PRE-ENGINEERED METAL BUILDING COMPONENTS AND IS FOR BID PURPOSES ONLY. THE CONTRACTOR SHALL SUBMIT BASE CONNECTION DETAILS (SIZE AND THICKNESS OF BASE PLATE AND DIAMETER AND LENGTH OF ANCHOR BOLTS) AND REACTIONS SO THE DESIGN ASSUMPTIONS CAN BE VERIFIED.
- ANY ADDITIONAL COST OF FOUNDATION WORK REQUIRED BY REVISIONS OF THE FOUNDATION DESIGN AFTER PRE-ENGINEERED METAL BUILDING REACTIONS ARE SUBMITTED SHALL NOT BE INCURRED BY STRUCTURAL ENGINEER.
- DRIFT CRITERIA FOR RIGID FRAMES AND METAL GIRTS SHALL HAVE A MAXIMUM DEFLECTION OF H/240 FOR MASONRY FINISHES AND A H/120 FOR METAL SIDING.

MASONRY

- MATERIALS:
 - CONCRETE BLOCK: MEDIUM WEIGHT ASTM C90 (HOLLOW) ASTM C145 (SOLID) MINIMUM COMPRESSIVE STRENGTH: 1900 PSI
 - MORTAR: ASTM C270 TYPE S.
 - GROUT: MINIMUM COMPRESSIVE STRENGTH: 2000 PSI
 - NET AREA COMPRESSIVE STRENGTH: 1500 PSI TO BE TESTED IN ACCORDANCE TO ATSM C1314 STANDARDS.
 - JOINT REINFORCING: MILL GALVANIZED FINISH, 9 GAGE MINIMUM SIDE WIRES AND CROSS WIRES (DUR-O-WALL), A HOHMANN + BARNARD COMPANY.
 - BAR REINFORCING: ASTM A615, GRADE 60 (UNLESS NOTED OTHERWISE).
 - TYPICAL CMU WALL REINFORCING SHALL BE #5 (V) AT 48" O.C. AND #5 (H) AT 8'-0" O.C. U.N.O. ON DRAWINGS.
- REINFORCED MASONRY, WHERE VERTICAL BARS ARE TO BE GROUTED INTO CORES, THE FOLLOWING REQUIREMENTS APPLY:
 - PROVIDE DOWELS FROM WALL, SAME SIZE AND SPACING AS WALL BARS. LAP 48 BAR DIAMETERS MINIMUM WITH WALL BAR.
 - PROVIDE A CONTINUOUS VERTICAL CAVITY, AT LEAST 2" x 3" IN SIZE, FREE OF MORTAR DROPPINGS.
 - PROVIDE REBAR ALIGNMENT DEVICES AT A MAXIMUM SPACING OF 96 BAR DIAMETERS (MINIMUM OF 2 PER BAR).
 - AT SPLICES IN VERTICAL BARS, PROVIDE MECHANICAL COUPLERS OR 48 BAR DIAMETER LAP.
 - ALL REINFORCEMENT MUST BE INSTALLED AND SECURELY ANCHORED IN PLACE PRIOR TO PLACEMENT OF GROUT.
 - MAXIMUM HEIGHT OF GROUT LIFT = 4'-0". UNLESS HIGH LIFT GROUTING PROCEDURES ARE EMPLOYED IN ACCORDANCE WITH ASI 530-99
- MISCELLANEOUS:
 - FILL CORE SOLID AROUND ANCHOR BOLTS.
 - PROVIDE SOLIDLY FILLED HOLLOW BLOCKS AT ALL EMBED ANCHOR LOCATIONS.
 - SET WELD PLATES IN BOND BEAMS AFTER THE GROUT IS PLACED, BUT WHILE IT IS STILL PLASTIC.
 - HOLLOW MASONRY UNITS TO BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. WEBS SHALL ALSO BE BEDDED IN ALL COURSES OF PIERS, COLUMNS, AND PILASTERS, AND IN THE STARTING COURSE ON FOOTING, AND WHEN ADJACENT TO CELLS OR CAVITIES TO BE REINFORCED OR FILLED WITH CONCRETE OR GROUT. SOLID UNITS TO BE LAID WITH FULL HEAD AND BED JOINTS.
 - PROVIDE JOINT REINFORCING AT 16 INCHES, EXCEPT AS NOTED.
 - LAP JOINT REINFORCING 6 INCHES FOR STANDARD, 15 INCHES FOR HEAVY WEIGHT.
 - VERTICAL CONTROL JOINTS SHALL BE PROVIDED FULL HEIGHT OF MASONRY WALLS AS LOCATED ON THE DRAWINGS. THE JOINT SHALL BE PROVIDED AS A CONTINUOUS HEAD JOINT WITH MORTAR RAKED BACK 3/4" AT BOTH FACES AND 50% OF THE HORIZONTAL JOINT REINFORCING CUT AT THE JOINT. AFTER THE MORTAR IS SET, THE JOINT SHALL BE CAULKED.
 - FILL ALL VOIDS AND CELLS WITHIN 12" EITHER SIDE OF CENTERLINE OF BEAM AND/OR COLUMN BEARING LOCATIONS WITH A #4 REINFORCING BAR AND GROUT U.N.O.
 - ALL CMU WALLS MUST HAVE SPECIAL INSPECTION PER IBC CODE 2012 SECTION 1705.4 "MASONRY CONSTRUCTION" ON CHAPTER 17-"STRUCTURAL TEST & SPECIAL INSPECTION". THE CONTRACTOR MUST PROVIDE REPORTS OF THESE "SPECIAL INSPECTIONS".
 - BARS SCHEDULED "CONTINUOUS" SHALL BE SPLICED AS FOLLOWS:

REINFORCING BAR SIZE	MIN. LAP SPLICE LENGTH
#5	30"
#6	36"
#7	42"
#8	48"
#9	54"
#10	MECHANICAL CONNECTOR
#11	

- STABILITY AND BRACING:
 - ALL MASONRY WALLS SHOWN ON THE CONTRACT DRAWINGS HAVE BEEN DESIGNED TO RESIST THE REQUIRED CODE VERTICAL AND LATERAL FORCES APPLIED TO THEM IN THEIR FINAL CONSTRUCTION POSITION ONLY ASSUMING FULL BRACING AT TOP, BOTTOM, AND/OR SIDES AS INDICATED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT CONSTRUCTION RESIST ANY ERECTION VERTICAL OR LATERAL LOADS THAT COULD BE IMPOSED ON THE WALLS PRIOR TO CONSTRUCTION COMPLETION.
- TESTING:
 - TESTING FREQUENCY: ONE SET OF SPECIFIED TESTS FOR EVERY 5,000 SF OF COMPLETED WALL AREA
 - TESTING OF MORTAR MIX: IN ACCORDANCE WITH ASTM C780 FOR AGGREGATE RATIO AND WATER CONTENT, AIR CONTENT, CONSISTENCY, AND COMPREHENSIVE STRENGTH.
 - TESTING OF GROUT MIX: IN ACCORDANCE WITH ASTM C1019 FOR COMPREHENSIVE STRENGTH, AND IN ACCORDANCE WITH ASTM C143/C143M FOR SLUMP.
 - TEST COMPREHENSIVE STRENGTH OF MORTAR AND MASONRY TO ASTM C1314: TEST IN ACCORDANCE WITH MASONRY UNIT SECTIONS SPECIFIED.

- GENERAL CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION MEETING WITH STRUCTURAL ENGINEER AND MASONRY CONTRACTOR BEFORE MASONRY WORK COMMENCES.

STEEL REINFORCING

- ALL REINFORCEMENT SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A-615 GRADE 60.
- REINFORCING STEEL SHALL BE DESIGNED, DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH THE LATEST ACI DETAILING MANUAL (SP-66) AND CSRI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE, (ACI #315) LATEST EDITIONS.
- BARS SCHEDULED OR DETAILED "CONT" SHALL BE SPLICED ONLY WHEN UNAVOIDABLE AT POINTS OF MINIMUM STRESS AND WITH A MINIMUM LAP AS FOLLOWS:
 - HORIZONTAL BARS w/ MORE THAN 12" OF FRESH CONCRETE CAST BELOW LAPS.

#6 BARS AND SMALLER	- 57 BAR DIAMETERS
#7 BARS AND BIGGER	- 72 BAR DIAMETERS
 - OTHER BARS

#6 BARS AND SMALLER	- 44 BAR DIAMETERS
#7 BARS AND BIGGER	- 55 BAR DIAMETERS
 - ALL SPLICES TO BE STAGGERED A MINIMUM OF 4'-0". TOP BAR AND BOTTOM BAR SPLICES TO BE LOCATED AT MID-SPAN AND WITHIN 1/3 SPAN RESPECTIVELY.
- CORNER REINFORCING BARS SHALL BE USED AT ALL CORNERS AND INTERSECTIONS.
- EXTEND THE SLAB REINFORCING STEEL PERPENDICULAR TO EXTERIOR GRADE BEAM TO THE TOP TOP SIDE REINFORCING BAR OF BEAM.
- SPACE REINFORCING BARS WITH MINIMUM CLEAR SPACING IN ACCORDANCE WITH ACI 318 OF ONE BAR DIAMETER, BUT NOT LESS THAN 1 INCH. FOR COMPRESSION MEMBERS, SPACE AT A MINIMUM OF 1.5 INCHES OR 1.5 BAR DIAMETERS, WHICHEVER IS GREATER.
- WHERE REINFORCING BARS ARE PLACED IN MULTIPLE LAYERS, PLACE UPPER BARS DIRECTLY ABOVE LOWER BARS.
- MAINTAIN CONCRETE COVER AROUND REINFORCEMENT IN ACCORDANCE WITH ACI 318 AND AS FOLLOWS:

A. FOOTING AND CONCRETE CAST AGAINST EARTH	- 3 INCHES
B. EXPOSED TO EARTH OR WEATHER	- 2 INCHES
#6 BARS AND BIGGER	- 2 INCHES
#5 BARS AND SMALLER	- 1.5 INCHES
C. BEAMS AND COLUMNS	- 1.5 INCHES
D. SLABS AND WALLS	- 1 INCH
- REPAIR ANY DAMAGE TO VAPOR RETARDER PER MANUFACTURER SPECIFICATIONS.
- ADDITIONAL REINFORCING TO BE PROVIDED ON SITE FOR USE AS DIRECTED BY STRUCTURAL ENGINEER.

#4 BARS	- 100 FT.
#5 BARS	- 100 FT.
#6 BARS	- 100 FT.



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PHASE: C.D

DATE: 11.28.2018

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CHECKED BY: EF

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GENERAL NOTES

STRUCTURAL TESTS AND SPECIAL INSPECTION

- THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THIS SECTION.
- THE FOLLOWING TERMS AND PHRASES SHALL HAVE THE MEANINGS SHOWN BELOW AS IT PERTAINS TO THIS SECTION.
 - APPROVED AGENCY - AN ESTABLISHED AND RECOGNIZED AGENCY REGULARLY ENGAGED IN CONDUCTING AND FURNISHING SPECIAL INSPECTION SERVICES.
 - APPROVED FABRICATOR - AN ESTABLISHED AND QUALIFIED FIRM APPROVED BY BUILDING OFFICIAL. SPECIAL INSPECTIONS ARE NOT REQUIRED WHEN WORK IS PERFORMED ON THE PREMISES OF AN APPROVED FABRICATOR.
 - SPECIAL INSPECTION, CONTINUOUS - THE FULL TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION.
 - SPECIAL INSPECTION, PERIODIC - THE PART TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION.
- SPECIAL INSPECTORS SHALL KEEP RECORDS OF ALL INSPECTIONS AND SHALL FURNISH REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED THEY SHALL BE BROUGHT TO THE ATTENTION OF THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
- THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION.
- SPECIAL INSPECTION FOR STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360.

**TABLE 1705.2.2
REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL**

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD ^a
1. MATERIAL VERIFICATION OF COLD-FORMED STEEL DECK.			
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	---	X	APPLICABLE ASTM MATERIAL STANDARDS
b. MANUFACTURER'S CERTIFICATE TEST REPORTS.	---	X	---
2. INSPECTION OF WELDING:			
a. COLD-FORMED STEEL DECK:			
1) FLOOR AND ROOF DECK WELDS	---	X	AWS D1.3
b. REINFORCING STEEL:			
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	---	X	
2) REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT.	X	---	AWS D1.4 ACI 318: SECTION 3.5.2
3) SHEAR REINFORCEMENT.	X	---	
4) OTHER REINFORCING STEEL.	---	X	

**TABLE 1705.3
REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION**

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD ^a	IBC REFERENCE
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	---	X	ACI 318: 3.5, 7.1-7.7	1910.4
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1705.2.2, ITEM 2b.	---	---	AWS D1.4 ACI 318: 3.5.2	---
3. INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.	---	X	ACI 318: 8.1.3, 21.2.8	1908.5, 1909.1
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.	---	X	ACI 318: 3.86, 8.1.3, 21.2.8	1909.1
5. VERIFYING USE OF REQUIRED DESIGN MIX.	---	X	ACI 318: Ch. 4, 5.2-5.4	1904.2, 1910.2, 1910.3
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	---	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1910.10
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	---	ACI 318: 5.9, 5.10	1910.6, 1910.7, 1910.8
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	---	X	ACI 318: 5.11-5.13	1910.9
9. INSPECTION OF PRESTRESSED CONCRETE: a. APPLICATION OF PRESTRESSING FORCES. b. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC-FORCE-RESISTING SYSTEM.	X X	---	ACI 318: 18.20 ACI 318: 18.18.4	---
10. ERECTION OF PRECAST CONCRETE MEMBERS.	---	X	ACI 318: Ch.16	---
11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POSTTENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	---	X	ACI 318: 6.2	---
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	---	X	ACI 318: 6.1.1	---

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD ^a	IBC REFERENCE
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:				
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	---	X	APPLICABLE ASTM MATERIAL SPECIFICATIONS; AISC 360, SECTION A3.3	---
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	---	X	---	---
2. INSPECTION OF HIGH-STRENGTH BOLTING:				
a. BEARING-TYPE CONNECTIONS.	---	X	AISC 360, SECTION M2.5	---
b. SLIP-CRITICAL CONNECTIONS.	X	X	---	---
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL:				
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	---	---	ASTM A 6 OR ASTM A 568	---
b. MANUFACTURERS' CERTIFIED MILL TEST REPORTS.	---	---	ASTM A 6 OR ASTM A568	---
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:				
a. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	---	---	AISC 360, SECTION A3.5	---
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	---	---	---	---
5. INSPECTION OF WELDING: a. STRUCTURAL STEEL:				
1) COMPLETE AND PARTIAL PENETRATION GROOVE WELDS.	X	---		
2) MULTIPASS FILLET WELDS.	X	---	AWS D1.1	---
3) SINGLE-PASS FILLET WELDS > 5/16"	X	---		
4) SINGLE-PASS FILLET WELDS ≤ 5/16"	---	X		
5) FLOOR AND ROOF DECK WELDS.	---	X	AWS D1.3	---
b. REINFORCING STEEL:				
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	---	X		
2) REINFORCING STEEL-RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT.	X	---	AWS D1.4 ACI 318: 3.5.2	---
3) SHEAR REINFORCEMENT.	X	---		
4) OTHER REINFORCING STEEL.	---	X		
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS: a. DETAILS SUCH AS BRACING AND STIFFENING. b. MEMBER LOCATIONS. c. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	---	X	---	---

TABLE 1705.6

REQUIRED VERIFICATION AND INSPECTION OF SOILS

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	---	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	---	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	---	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	---
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	---	X

LEVEL 1 REQUIRED VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION

INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA		
	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC SECTION	ACI 530/ASCE 5/TMS 402 ^a	ACI 530.1/ASCE 6/TMS 602a ^a
1. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:					
a. PROPORTIONS OF SITE-PREPARED MORTAR.	---	X	---	---	Art. 2.6A
b. CONSTRUCTION OF MORTAR JOINTS.	---	X	---	---	Art. 3.3B
c. LOCATION OF REINFORCEMENT, CONNECTORS, PRESTRESSING TENDONS AND ANCHORAGES.	---	X	---	---	Art. 3.4, 3.6A
d. PRESTRESSING TECHNIQUE.	---	X	---	---	Art. 3.6B
e. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES.	---	X	---	---	Art. 2.4B, 2.4H
2. THE INSPECTION PROGRAM SHALL VERIFY:					
a. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.	---	X	---	---	Art. 3.3G
b. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION.	---	X	---	Sec. 1.2.2(e), 2.1.4, 3.1.6	---
c. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT	---	X	---	Sec. 1.13	Art. 2.4, 3.4
d. WELDING OF REINFORCING BARS.	X	---	---	Sec. 2.1.10.7.2, 3.3.3.4(b)	---
e. PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F).	---	X	---	---	Art. 1.8C, 1.8D
f. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.	---	X	---	---	Art. 3.6B
3. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:					
a. GROUT SPACE IS CLEAN.	---	X	---	---	Art. 3.2D
b. PLACEMENT OF REINFORCEMENT AND CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES.	---	X	---	Sec. 1.13	Art. 3.4
c. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.	---	X	---	---	Art. 2.6B
d. CONSTRUCTION OF MORTAR JOINTS.	---	X	---	---	Art. 3.3B
4. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS.	X	---	---	---	Art. 3.5
a. GROUTING OF PRESTRESSING BONDED TENDONS.	X	---	---	---	Art. 3.6C
5. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED.	X	---	---	---	Art. 1.4
6. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.	---	X	---	---	Art. 1.5

CONTRACTOR NOTE

THE STRUCTURAL SYSTEM FOR THIS PROJECT SHALL NOT BE CONSTRUCTED BY USING THE STRUCTURAL DRAWINGS ALONE. THESE DRAWINGS WERE DEVELOPED FROM DATA DERIVED PRIMARILY FROM THE ARCHITECTURAL DRAWINGS AND SECONDARILY FROM MEP, CIVIL AND OTHER DISCIPLINES' DOCUMENTS. IT IS INTENDED THAT CONSTRUCTION PROCEED BY UTILIZING ALL OF THE INFORMATION CONTAINED IN THE ENTIRE SET OF CONSTRUCTION DOCUMENTS TAKEN AS A WHOLE; FAILURE TO DO SO WILL RESULT IN ERRORS WHICH SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

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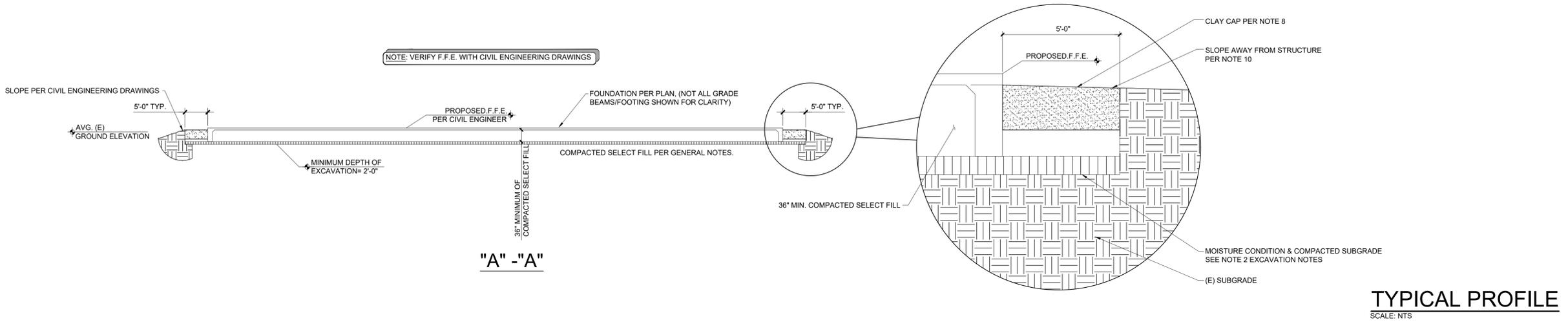


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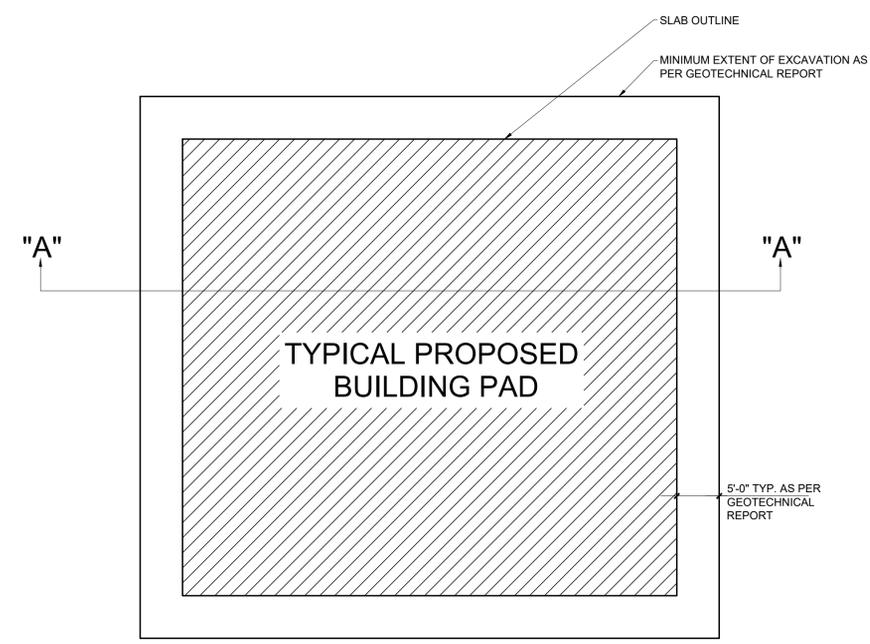


TYPICAL PROFILE
 SCALE: NTS

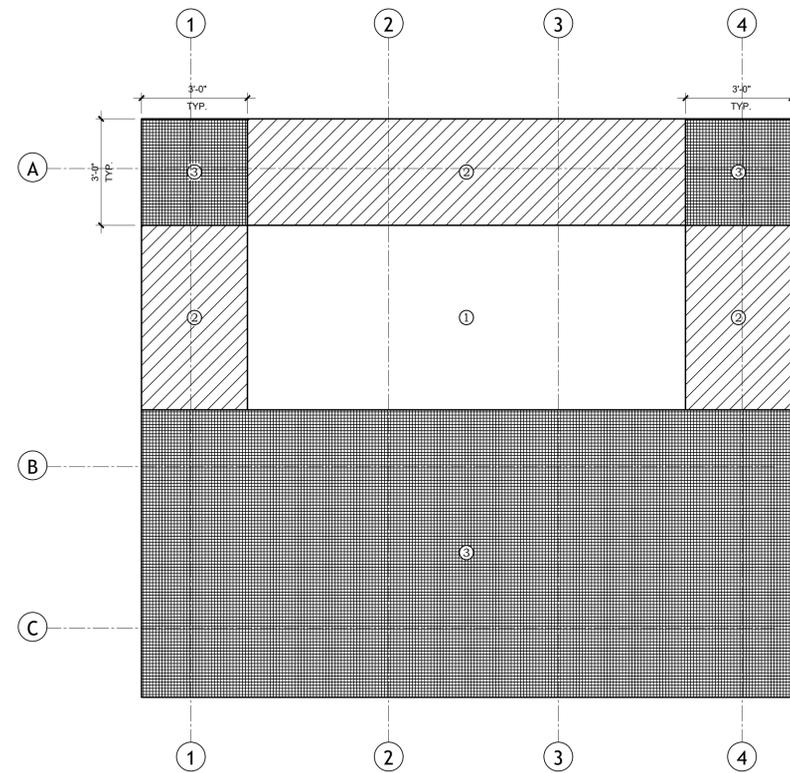
EXCAVATION NOTES

- CONSTRUCTION AREAS REMOVE ALL VEGETATION, TOPSOIL, ROOTS AND OTHER DELETERIOUS MATERIALS TYPICALLY 6 TO 12 INCHES IN DEPTH, SHALL BE REMOVED TO A DISTANCE OF 5'-0" OUTSIDE FROM THE PROPOSED BUILDING LINE. FURTHER, EXCAVATE EXISTING SOILS WITHIN THE BUILDING PAD TO AN ELEVATION OF 2'-0" BELOW AVG. GROUND ELEVATION AND REPLACE WITH COMPACTED SELECT FILL.
- EXPOSED SUBGRADES SHOULD BE THOROUGHLY PROOF ROLLED IN ORDER TO LOCATE AND COMPACT ANY WEAK, COMPRESSIBLE SOFT SPOTS. PROOF ROLLING SHALL BE IN ACCORDANCE WITH TxDOT 2014 SPECIFICATIONS ITEM 216. PROOF ROLLING OPERATIONS SHOULD BE OBSERVED BY THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE TO DOCUMENT SUBGRADE CONDITION AND PREPARATION. WEAK OR SOFT AREAS IDENTIFIED DURING PROOF ROLLING SHOULD BE REMOVED AND REPLACED WITH A SUITABLE, COMPACTED SELECT FILL IN ACCORDANCE WITH THE RECOMMENDATIONS IN NOTE 4. THE SUBGRADE SHOULD BE SCARIFIED TO A MINIMUM DEPTH OF 12" MOISTURE ADJUSTED -2% BELOW TO +2% ABOVE THE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO AT LEAST 95% OF THE STANDARD EFFORT (ASTM D698) MAXIMUM DRY DENSITY. THE SOIL SHOULD BE PROPERLY COMPACTED IN ACCORDANCE WITH THESE RECOMMENDATIONS AND TESTED BY MEG PERSONNEL FOR COMPACTION AS SPECIFIED.
- FILL BACK TO REQUIRED GRADE (A MINIMUM OF 3'-0" OF SELECT FILL IS REQUIRED. REFER TO CIVIL PLANS FOR FINISHED FLOOR ELEVATION TO DETERMINE ADDITIONAL AMOUNT OF SELECT FILL NEEDED) WITH MATERIAL SELECTED AND COMPACTED IN ACCORDANCE WITH THE REQUIREMENTS BELOW.
- SELECT FILL, WHEN PROPERLY SLAKED AND TESTED BY STANDARD LABORATORY METHODS, SHALL MEET ONE OF THE FOLLOWING REQUIREMENTS:
 - MATERIAL SHALL CONFORM TO TxDOT 2014 SPECIFICATION ITEM 247, FLEXIBLE BASE, TYPE A, GRADES 1 THROUGH 3.
 - MATERIAL SHALL CONFORM TO TxDOT 2014 SPECIFICATION ITEM 247, FLEXIBLE BASE, TYPE B OR C, GRADES 1 THROUGH 5 WITH MINIMUM PLASTICITY INDEX OF 7.
 - MATERIAL SHALL CONFORM TO TxDOT 2014 SPECIFICATION ITEM 247, FLEXIBLE BASE, TYPE E, GRADE 4 WITH A PLASTICITY INDEX BETWEEN AND INCLUSIVE 7 AND 15, MATERIAL SHALL BE DEFINED AS CALICHE (ARGILLACEOUS LIMESTONE, CALCAREOUS OR CALCAREOUS CLAY PARTICLES) AND MAY CONTAIN STONE, CONGLOMERATE, GRAVEL SAND OR GRANULAR MATERIALS WHEN THESE MATERIALS ARE IN SITU WITH THE CALICHE. FLEXIBLE BASE (TYPE E, GRADE 4) SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

RETAINED ON Sq. SIEVE	PERCENT RETAINED
2"	0
1/2"	20-60
No. 4	40-75
No. 40	70-90
Max. PI:	15
Max. WET BALL PI:	15
WET BALL MILL Max AMOUNT:	50
WET BALL INCREASE, Max PASSING No. 40 SIEVE	20
 - SOILS CLASSIFIED ACCORDING TO USCS AS SM, SC, GM, GC, CL, ML, AND COMBINATIONS OF THESE SOILS. THE SOILS SHALL BE RELATIVELY FREE OF ORGANIC MATTER. IN ADDITION TO THE USCS CLASSIFICATION, SELECT MATERIALS SHALL HAVE A LIQUID LIMIT OF LESS THAN 40 AND PLASTICITY INDEX BETWEEN AND INCLUSIVE OF 10 AND 17.
 - SOILS CLASSIFIED, AS CH, MH, OH, OL, AND PT, UNDER THE USCS ARE NOT CONSIDERED SUITABLE FOR USE AS SELECT FILL MATERIALS AT THIS SITE.
- SAMPLES OF PROPOSED SELECT FILL SHALL BE FURNISHED TO THE TESTING LABORATORY 7 DAYS PRIOR TO INSTALLATION TO PERMIT TIME FOR SPECIFICATION COMPLIANCE INSPECTION AND APPROVAL.
- SELECT FILL UNDER ALL FLOORS AND WALKS SHALL BE COMPACTED IN THE FIELD IN LIFTS NOT TO EXCEED 8" TO 95% OF THE MAXIMUM DENSITY, 2% BELOW OR 2% ABOVE OF THE OPTIMUM MOISTURE CONTENT, AS DETERMINED BY TEST METHOD ASTM D-698
- SITE PREPARATION TESTING SHALL BE AS FOLLOWS:
 - ATTERBERG LIMITS OF SELECT FILL MATERIAL:
 - ONE TEST PER 5,000 CY
 - COMPACTION TEST:
 - TO BE PERFORMED PER LIFT ON TEST PER 3,000 SF MINIMUM
 - OF (4) FOUR TEST PER LIFT
- IF 5' PERIMETER OVER EXCAVATION IS NOT COVERED BY CONCRETE FLATWORK, PROVIDE 2" THICK CLAY CAP IN OVER EXCAVATED ZONE. CLAY CAP SHOULD BE SLOPED AWAY FROM THE FOUNDATION AT A MINIMUM SLOPE OF 2%, AND SURROUNDING AREAS SHOULD HAVE POSITIVE DRAINAGE. THE LOW PERMEANCE CLAY CAP SHALL MEET THE USCS CLASSIFICATION OF CH OR CL WITH A MINIMUM P.I. OF 20, A MINIMUM OF 50% BY WEIGHT PASSING THE NO. 200 SIEVE, AND SHALL BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698. THE MOISTURE CONTENT OF THE SUBGRADE SHOULD BE MAINTAINED WITHIN THE RANGE OF OPTIMUM TO 4% ABOVE THE OPTIMUM MOISTURE.
- GEOTECHNICAL REPORT SHALL BE CONSIDERED A PART OF THE CONSTRUCTION DOCUMENTS. CONTRACTOR TO REVIEW AND COMPLY WITH ALL EARTHWORK AND GRADING REQUIREMENT IN GEOTECHNICAL REPORT.
- FINAL SITE GRADING TO SLOPE AWAY FROM THE STRUCTURE AND SHALL PREVENT WATER FROM PONDING IN THE AREAS ADJACENT TO THE STRUCTURE FOR A MINIMUM DISTANCE OF 10'-0". ANY PONDING CLOSE TO THE STRUCTURE MAY CREATE VOLUMETRIC CHANGES IN THE SOIL AND MAY LEAD TO LESS THAN OPTIMUM PERFORMANCE OF THE BUILDING FOUNDATION.



EXCAVATION PLAN
 SCALE: NTS



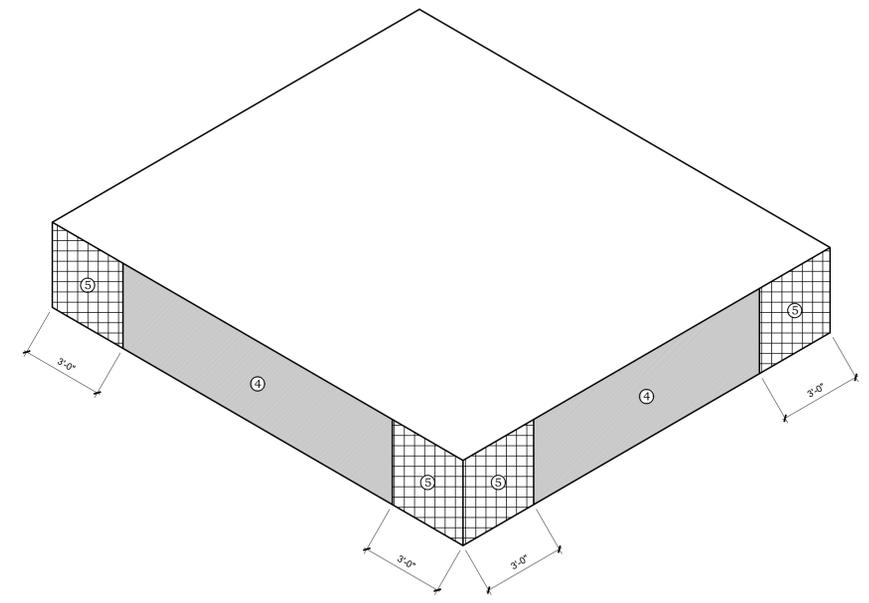
ALLOWABLE STRESS DESIGN

EFFECTIVE WIND AREA	ZONE	GROSS	NET
10	①	- 24.2 psf	- 18.2 psf
20	①	- 23.6 psf	- 17.6 psf
50	①	- 22.8 psf	- 16.8 psf
10	②	- 40.6 psf	- 34.6 psf
20	②	- 36.3 psf	- 30.3 psf
50	②	- 30.6 psf	- 24.6 psf
10	③	- 61.1 psf	- 55.1 psf
20	③	- 50.6 psf	- 44.6 psf
50	③	- 36.7 psf	- 30.7 psf

WIND LOAD PLAN NOTES:
 1. NEGATIVE PRESSURES DENOTE FORCE ACTING AWAY FROM BUILDING SURFACE (SUCTION).
 2. PRESSURES FOR TRIBUTARY AREAS IN BETWEEN THE LISTED VALUES MAY BE LINEARLY INTERPOLATED.



ROOF UPLIFT PLAN
SCALE: NTS



ALLOWABLE STRESS DESIGN

EFFECTIVE WIND AREA	ZONE	MAX PRESSURE
10	④	± 26.2 psf
20	④	± 25.2 psf
50	④	± 23.7 psf
10	⑤	± 32.4 psf
20	⑤	± 30.2 psf
50	⑤	± 27.3 psf

WIND LOAD PLAN NOTES:
 1. NEGATIVE PRESSURES DENOTE FORCE ACTING AWAY FROM BUILDING SURFACE (SUCTION).
 2. PRESSURES FOR TRIBUTARY AREAS IN BETWEEN THE LISTED VALUES MAY BE LINEARLY INTERPOLATED.

COMPONENTS AND CLADDING
SCALE: NTS



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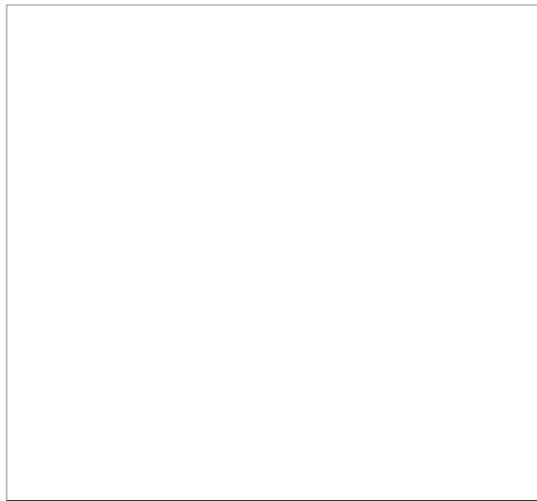


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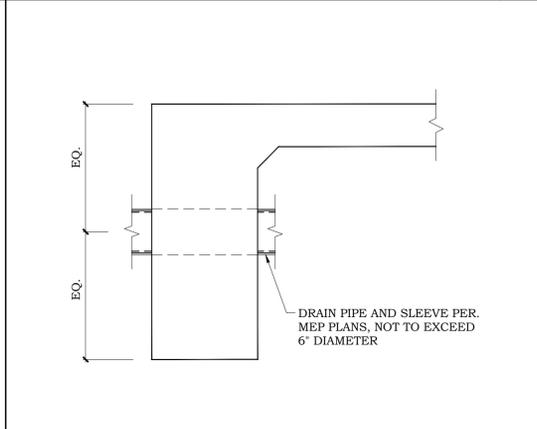
MERCEDES SPORTS PARK 1
PHASE - USA
MERCEDES, TEXAS

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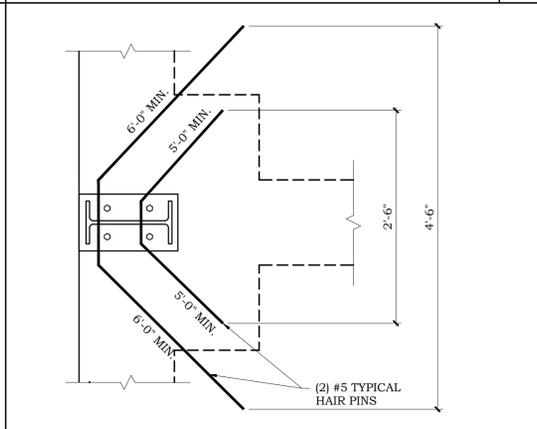
S1.04



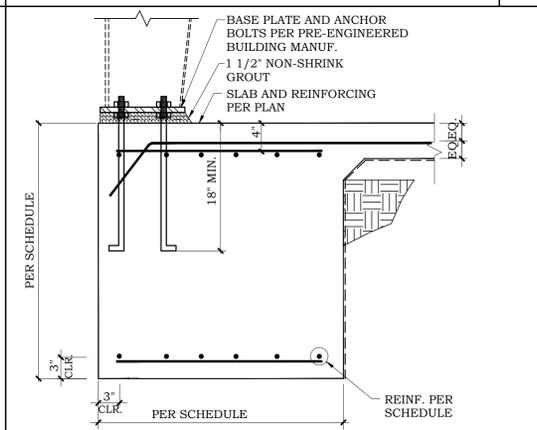
17 THICKENED SLAB AT NON BEARING CMU WALL



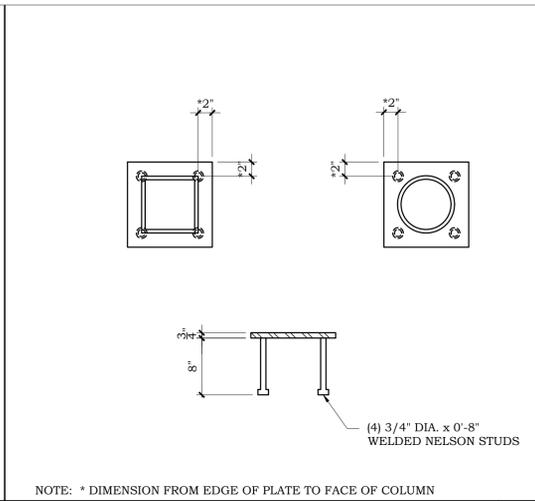
18 PIPE EXTERIOR FOOTING



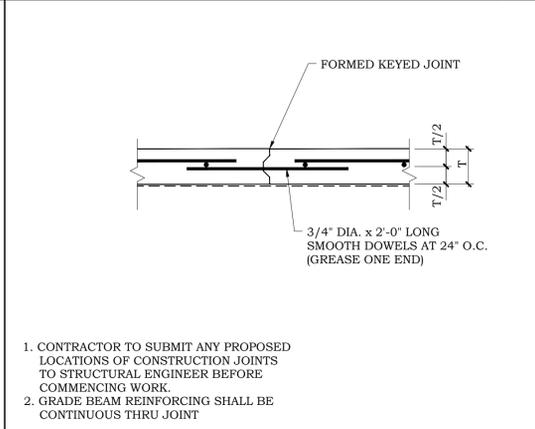
19 TYPICAL HAIR PINS



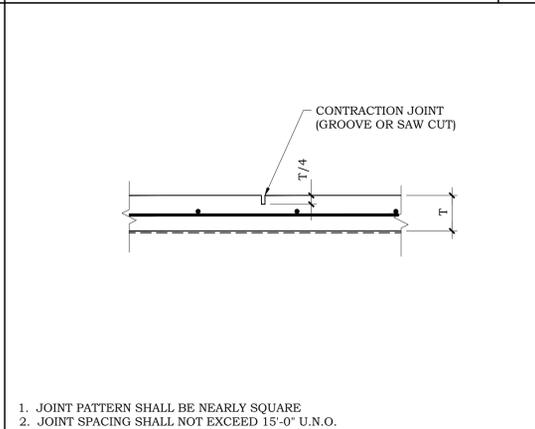
20 FOOTING AT STEEL COLUMN



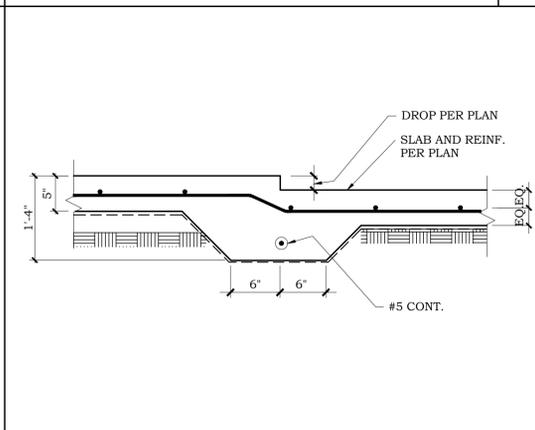
9 BASE PLATE DETAIL



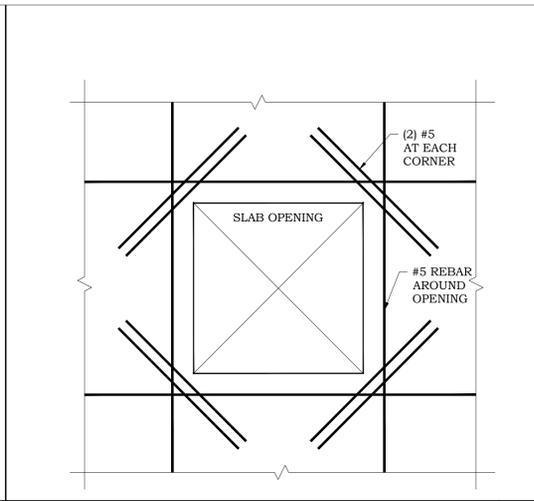
10 CONSTRUCTION JOINT DETAIL



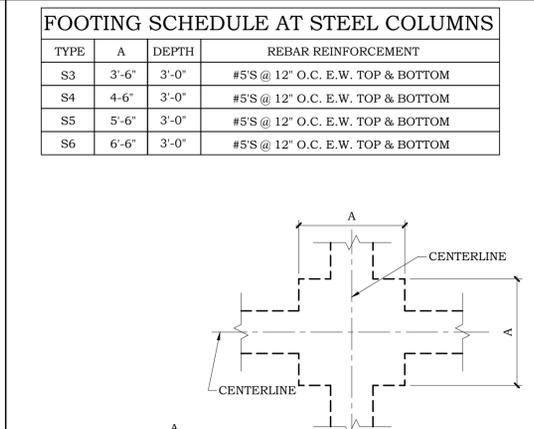
11 CONTRACTION JOINT DETAIL



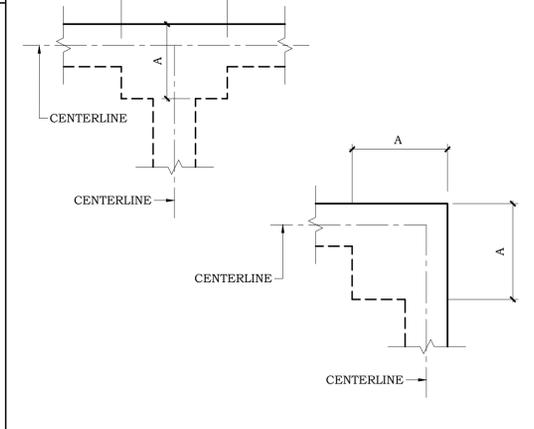
12 DROP AT SLAB ON GRADE



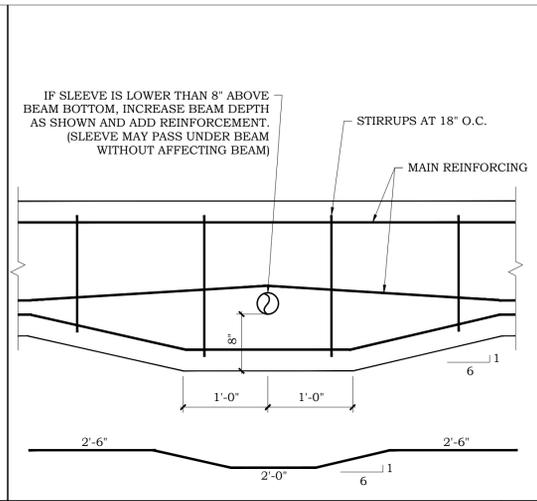
5 OPENINGS IN SLAB



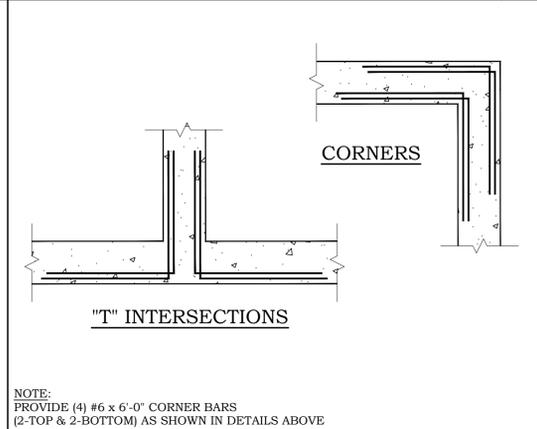
7 FOOTING SCHEDULE



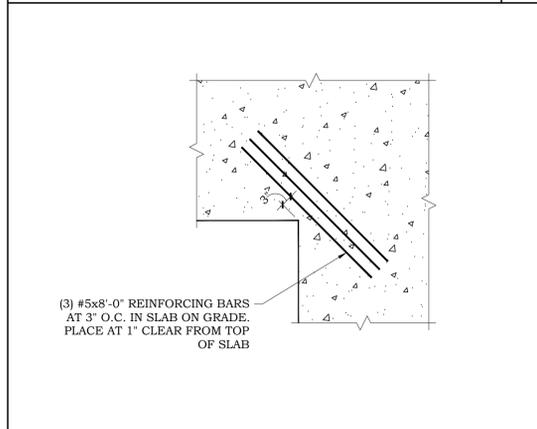
8 FOOTING AT STEEL COLUMN



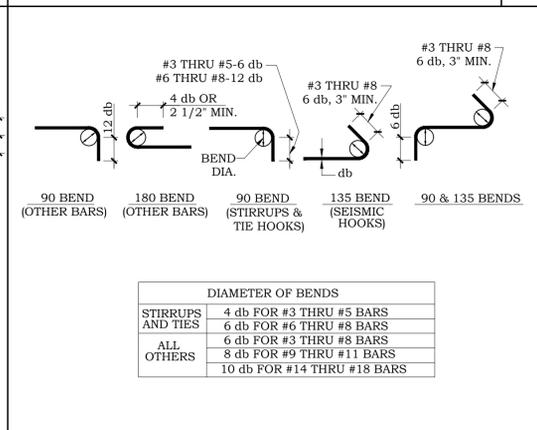
1 TYPICAL SLEEVE IN GRADE BEAM



2 TYPICAL CORNER BARS



3 TYPICAL SLAB REINFORCING



4 STANDARD HOOKS

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STATE OF TEXAS
 EMMY ANN FANTICH
 128860
 LICENSED PROFESSIONAL ENGINEER
 11-28-2018

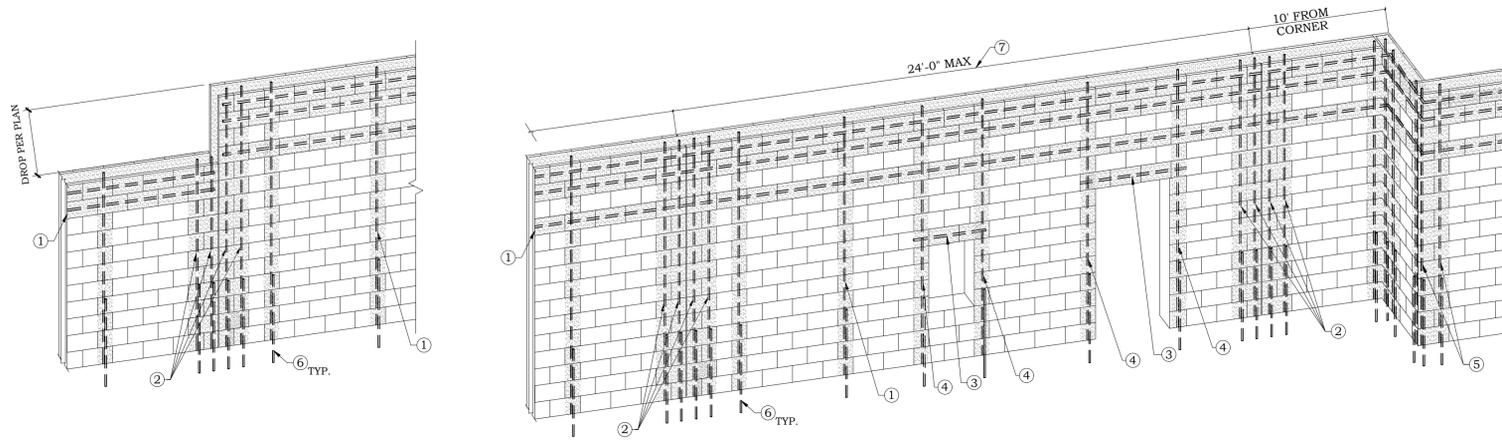
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S2.01

- ① TYPICAL WALL REINFORCING AS CALLED OUT IN PLANS AND GENERAL NOTES.
- ② VERTICAL REINFORCING AT CONTROL JOINTS, REFER TO DETAIL (8) S2.02
- ③ LINTELS PER LINTEL SCHEDULE, REFER TO DETAIL (7) S2.02
- ④ ADDITIONAL VERTICAL REINFORCING AT JAMBS OF ALL OPENINGS
- ⑤ WALL CORNER REINFORCING, REFER TO DETAIL (2,3,4) S2.02
- ⑥ DOWELS TO MATCH VERTICAL REINFORCEMENT PER PLAN, TYPICAL
- ⑦ CONTROL JOINT SPACING AS NOTED IS MAXIMUM ALLOWED, COORDINATE CONTROL JOINT LOCATIONS w/ARCHITECTURAL PLANS.

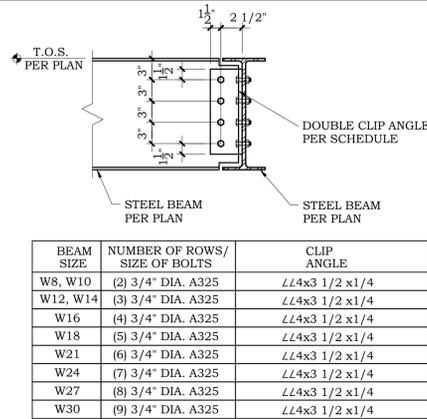


TYPICAL CMU WALL CONSTRUCTION

5

NOT USED

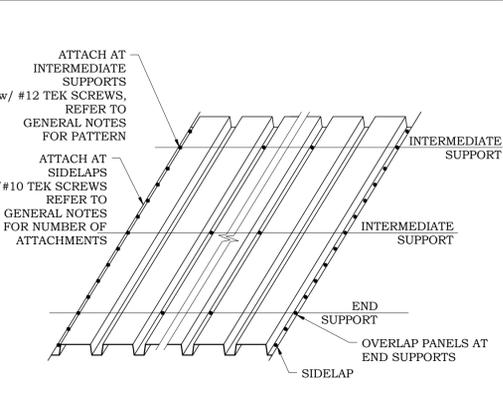
1



BEAM SIZE	NUMBER OF ROWS/ SIZE OF BOLTS	CLIP ANGLE
W8, W10	(2) 3/4" DIA. A325	LL4x3 1/2 x1/4
W12, W14	(3) 3/4" DIA. A325	LL4x3 1/2 x1/4
W16	(4) 3/4" DIA. A325	LL4x3 1/2 x1/4
W18	(5) 3/4" DIA. A325	LL4x3 1/2 x1/4
W21	(6) 3/4" DIA. A325	LL4x3 1/2 x1/4
W24	(7) 3/4" DIA. A325	LL4x3 1/2 x1/4
W27	(8) 3/4" DIA. A325	LL4x3 1/2 x1/4
W30	(9) 3/4" DIA. A325	LL4x3 1/2 x1/4

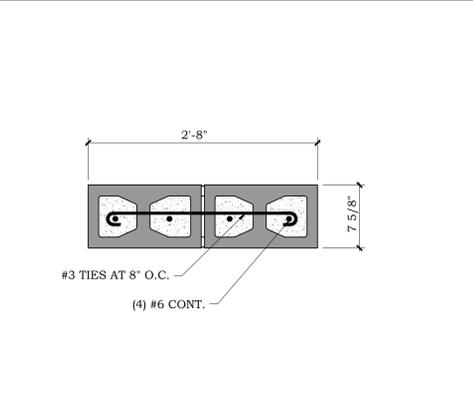
STEEL BEAM TO STEEL BEAM CONNECTION

18



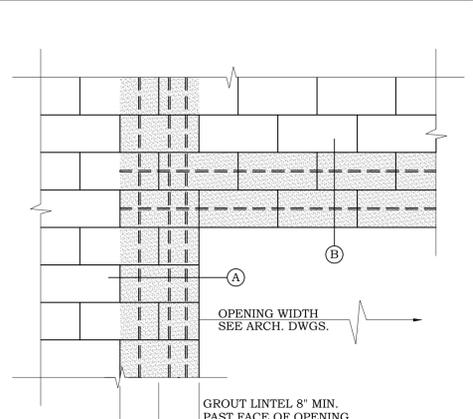
TYPICAL METAL DECK ATTACHMENT

14



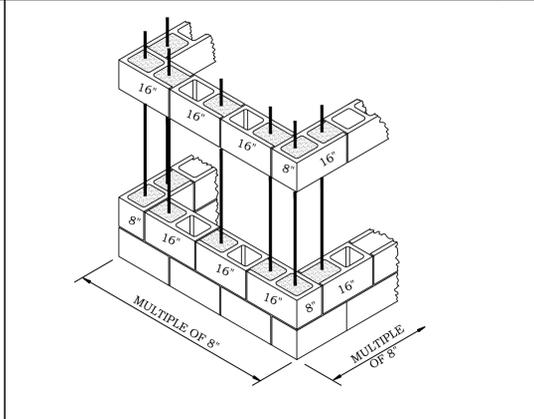
8" PILASTER "P1"

10



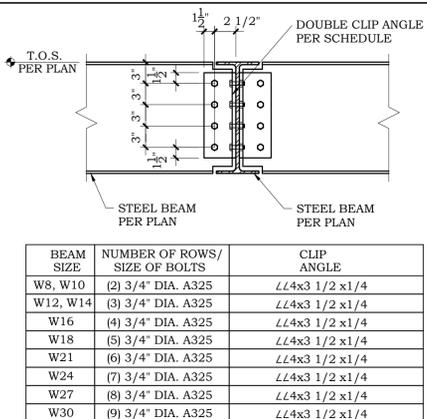
LINTEL SCHEDULE

CLEAR SPAN	WIDTH	DEPTH	REINFORCING	#3 TIES AT:	REMARKS
<3'-4"	8"	8"	(1)#5		
<4'-8"	8"	16"	(1)#5 (T) & (B)	8"	
<6'-8"	8"	16"	(1)#6 (T) & (B)	8"	
<10'-0"	8"	24"	(1)#6 (T) & (B)	8"	
<12'-0"	8"	24"	(1)#7 (T) & (B)	8"	



TYPICAL CMU CORNER DETAIL

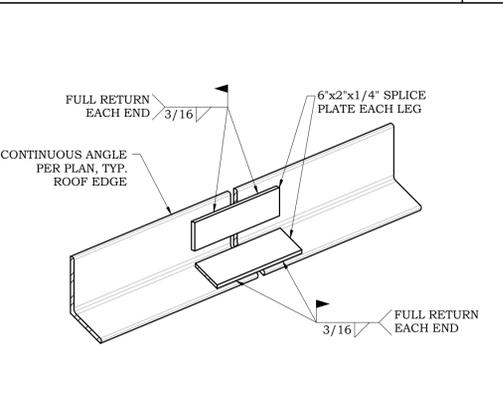
2



BEAM SIZE	NUMBER OF ROWS/ SIZE OF BOLTS	CLIP ANGLE
W8, W10	(2) 3/4" DIA. A325	LL4x3 1/2 x1/4
W12, W14	(3) 3/4" DIA. A325	LL4x3 1/2 x1/4
W16	(4) 3/4" DIA. A325	LL4x3 1/2 x1/4
W18	(5) 3/4" DIA. A325	LL4x3 1/2 x1/4
W21	(6) 3/4" DIA. A325	LL4x3 1/2 x1/4
W24	(7) 3/4" DIA. A325	LL4x3 1/2 x1/4
W27	(8) 3/4" DIA. A325	LL4x3 1/2 x1/4
W30	(9) 3/4" DIA. A325	LL4x3 1/2 x1/4

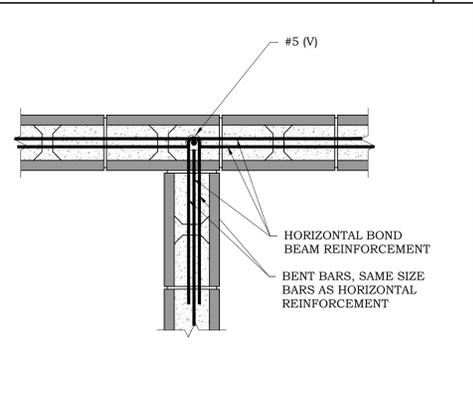
STEEL BEAM TO STEEL BEAM CONNECTION

19



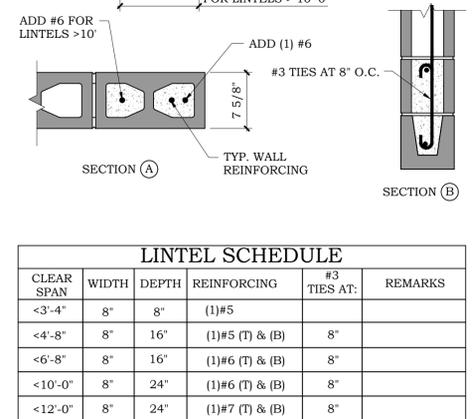
TYPICAL ROOF EDGE ANGLE SPLICE DETAIL

15



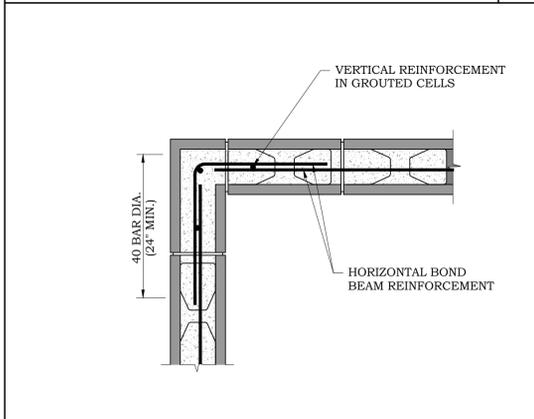
TYPICAL BOND BEAM INTERSECTION

11



LINTEL SCHEDULE

7



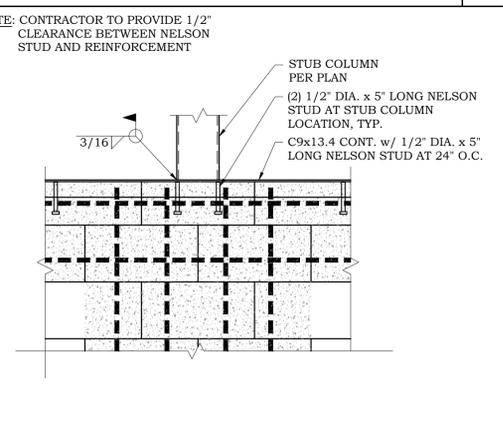
TYPICAL BOND BEAM CORNER

3



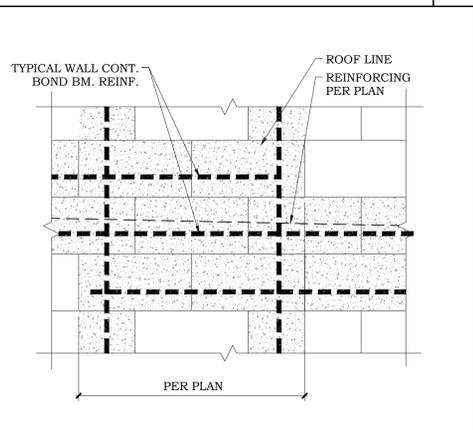
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20



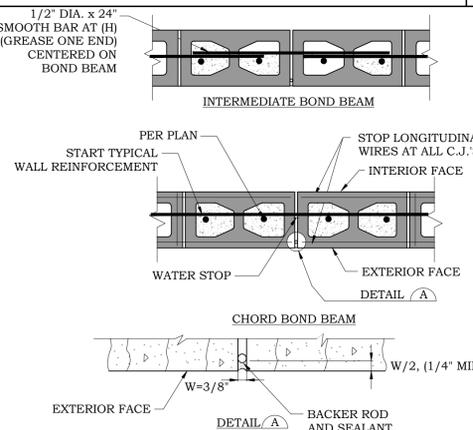
STEEL COLUMN TO CMU WALL

16



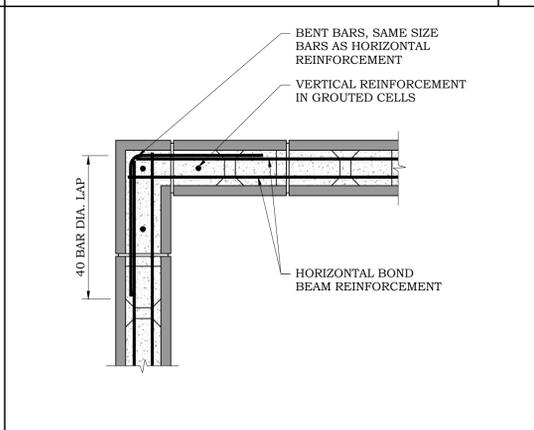
TYPICAL STEP IN BOND BEAM DETAIL

12



CMU CONTROL JOINT (C.J.)

8



TYPICAL BOND BEAM CORNER

4



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S2.02



NOTE: THIS PLAN IS NOT THE OFFICIAL SITE PLAN. THIS DRAWING IS PROVIDED AS A GENERAL REFERENCE TO INDICATE BUILDING LOCATION AND MINOR STRUCTURAL COMPONENTS AROUND THE SITE. CONTRACTOR SHALL REFER TO ARCHITECTURAL AND CIVIL ENGINEERING SITE PLANS FOR SITE PLAN REQUIREMENTS.



SITE PLAN
SCALE: N.T.S.



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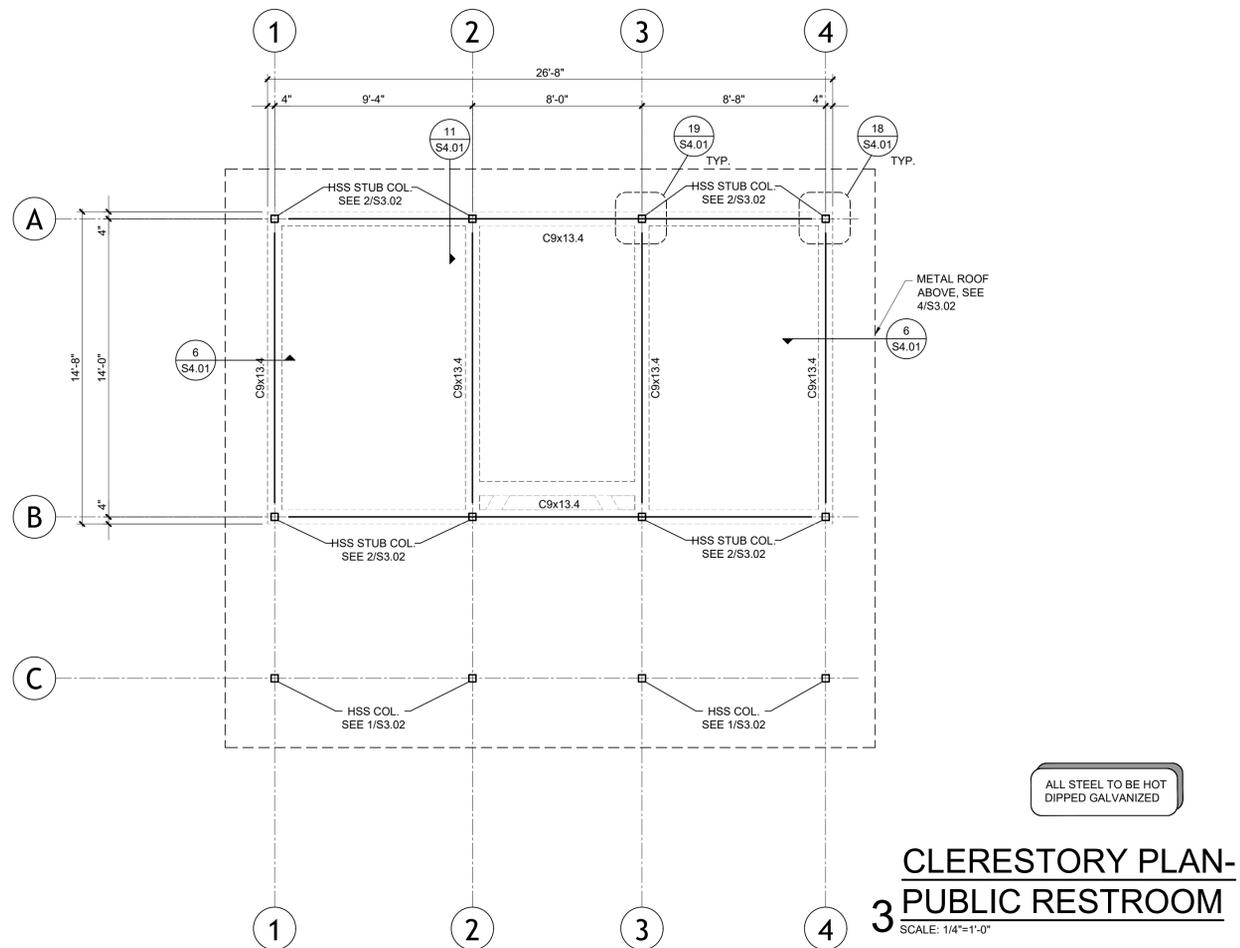


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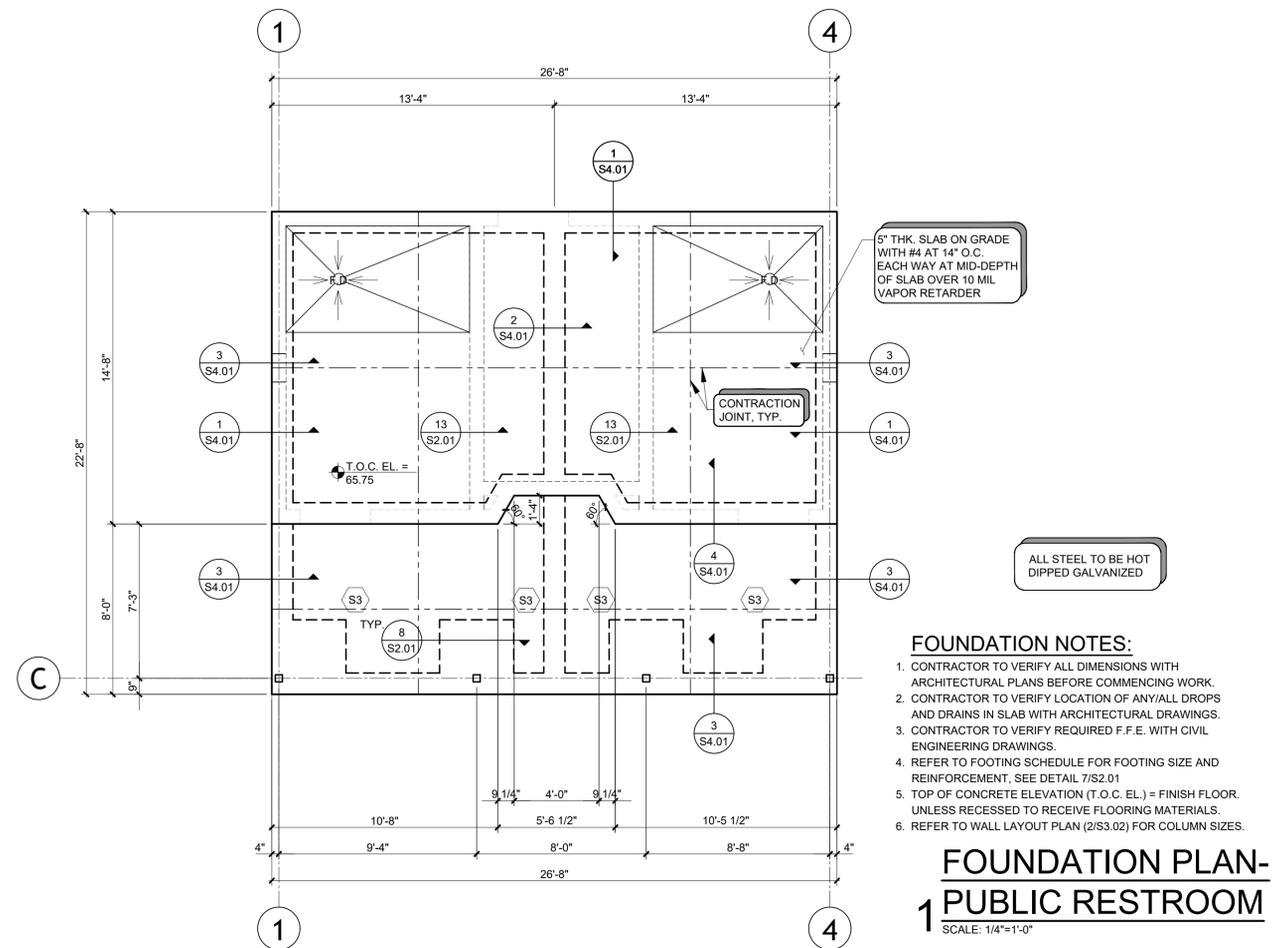
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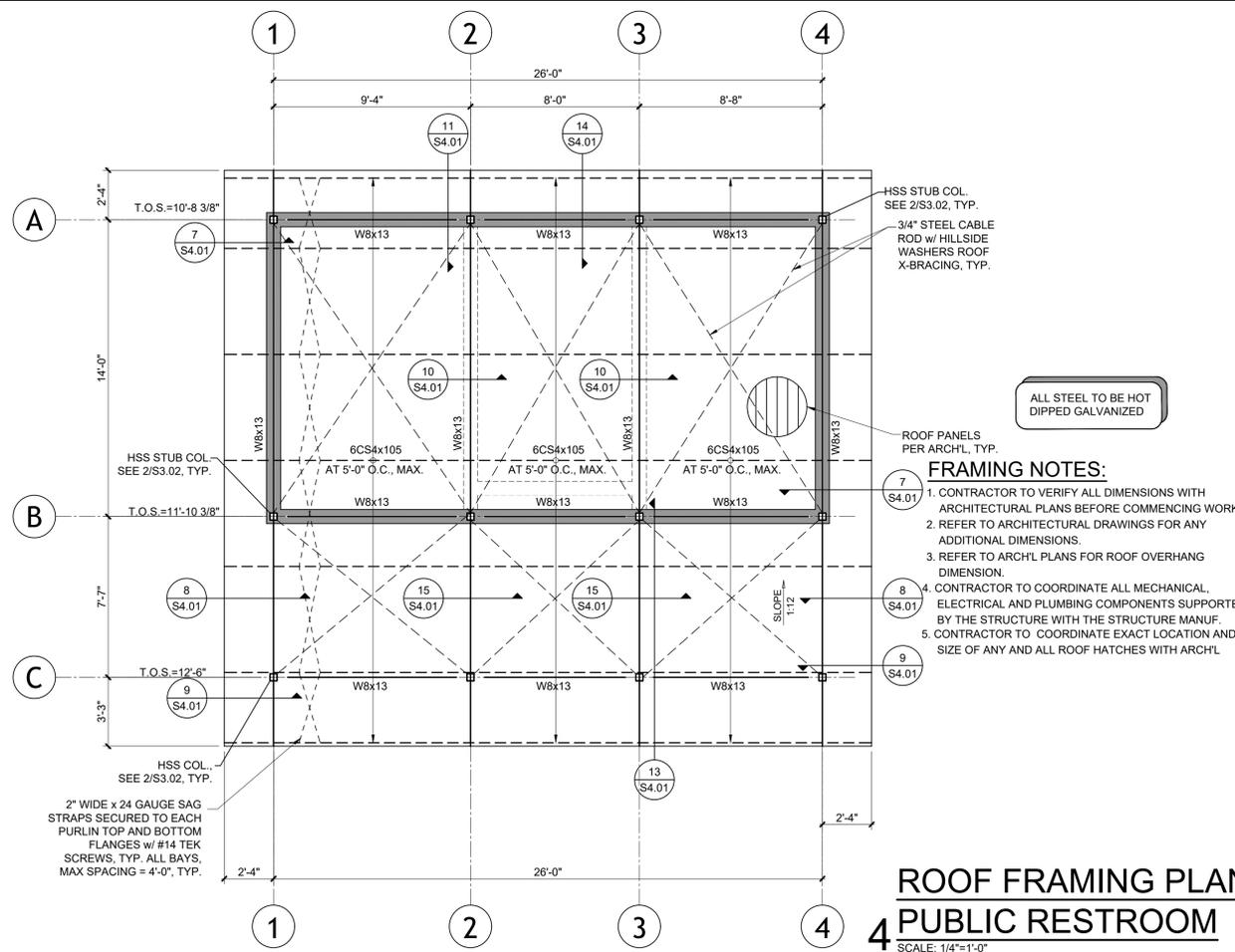
S3.01



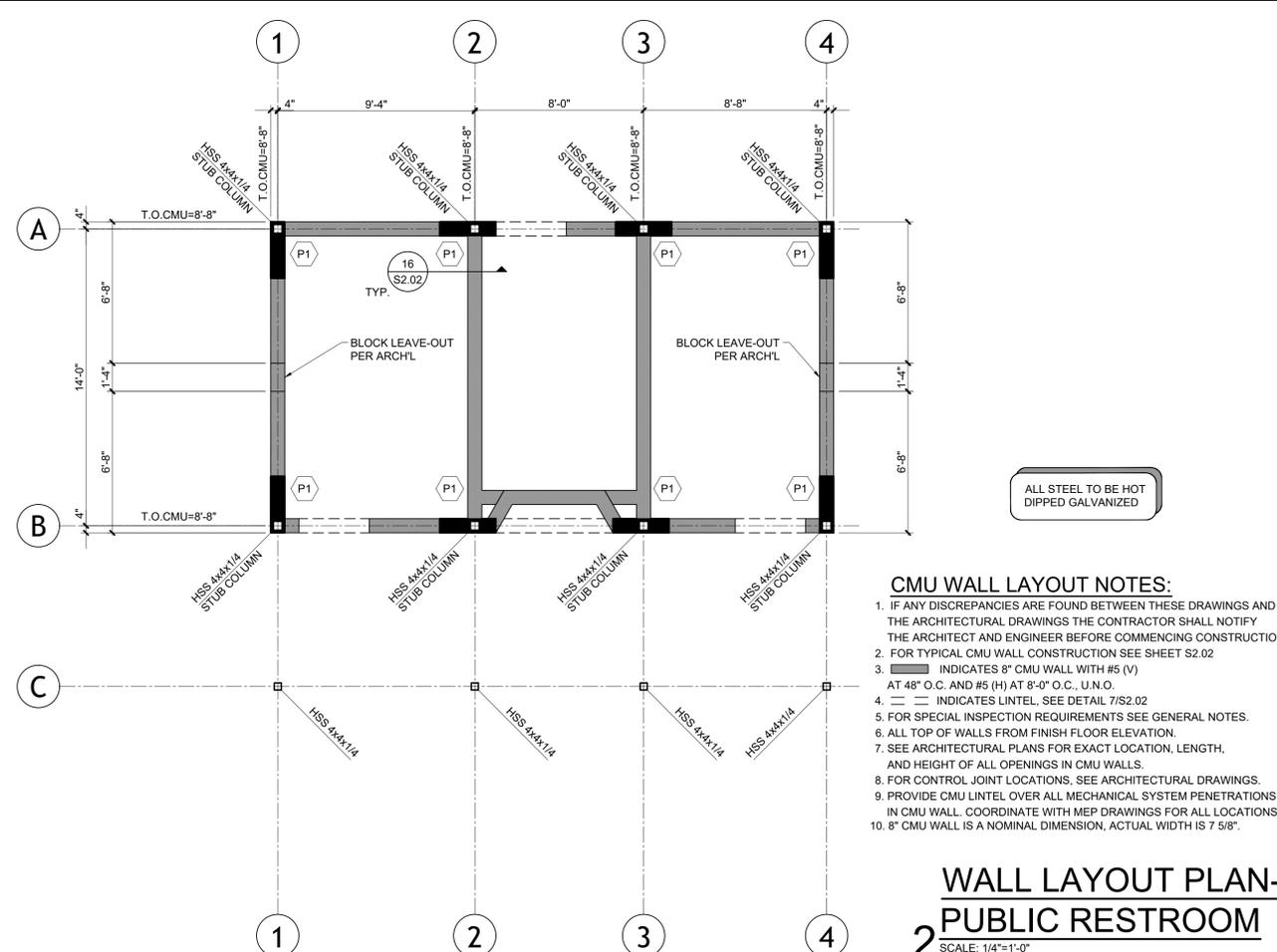
**CLERESTORY PLAN-
3 PUBLIC RESTROOM**
SCALE: 1/4"=1'-0"



**FOUNDATION PLAN-
1 PUBLIC RESTROOM**
SCALE: 1/4"=1'-0"



**ROOF FRAMING PLAN-
4 PUBLIC RESTROOM**
SCALE: 1/4"=1'-0"



**WALL LAYOUT PLAN-
2 PUBLIC RESTROOM**
SCALE: 1/4"=1'-0"



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S3.02



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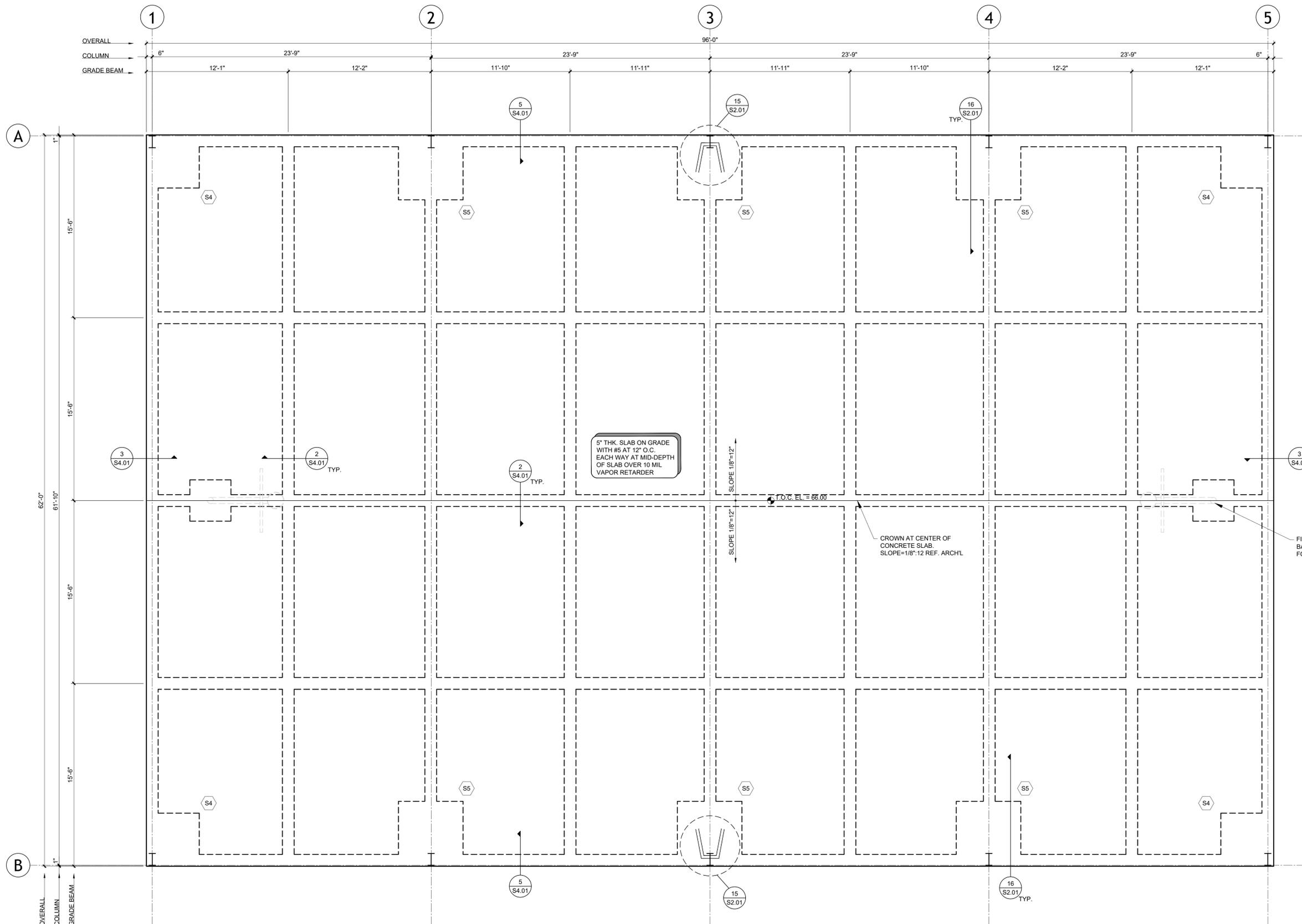
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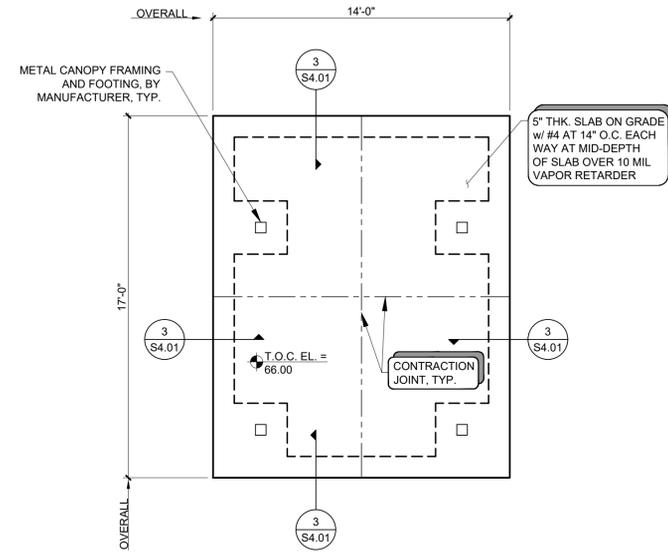
S3.03



FOUNDATION NOTES:

- CONTRACTOR TO VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE COMMENCING WORK.
- CONTRACTOR TO VERIFY LOCATION OF ANY/ALL DROPS AND DRAINS IN SLAB WITH ARCHITECTURAL DRAWINGS.
- CONTRACTOR TO VERIFY REQUIRED F.F.E. WITH CIVIL ENGINEERING DRAWINGS.
- REFER TO FOOTING SCHEDULE FOR FOOTING SIZE AND REINFORCEMENT, SEE DETAIL 7/S2.01
- TOP OF CONCRETE ELEVATION (T.O.C. EL.) = FINISH FLOOR, UNLESS RECESSED TO RECEIVE FLOORING MATERIALS.
- FOUNDATION FOR THE PRE-ENGINEERED BUILDING COLUMNS HAVE BEEN DESIGNED USING ASSUMED REACTIONS. THESE ASSUMED REACTIONS ARE THAT THE BUILDING COLUMNS HAVE A PINNED BASE AND WILL NOT TRANSFER AN APPLIED MOMENT. PRIOR TO THE CONSTRUCTION OF THE DETAILED FOUNDATION, THE REACTIONS FROM THE BUILDING COLUMNS SHALL BE SUBMITTED TO THE FOUNDATION ENGINEER TO VERIFY THE FOUNDATION DESIGN.
- THE PRE-ENGINEERED BUILDING MANUFACTURER SHALL DESIGN AND SUPPLY ALL MATERIAL AS REQUIRED TO MEET THE ARCHITECTURAL DRAWINGS AND THE LOCAL BUILDING CODES. THE PRE-ENGINEERED BUILDING MANUFACTURER SHALL ACT AS THE ENGINEER OF RECORD FOR ALL COMPONENTS ABOVE THE FOUNDATION, INCLUDING THE CONNECTIONS OF HIS/HER DESIGN TO THE FOUNDATION. ALL SUBMITTALS SHALL BE SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS.

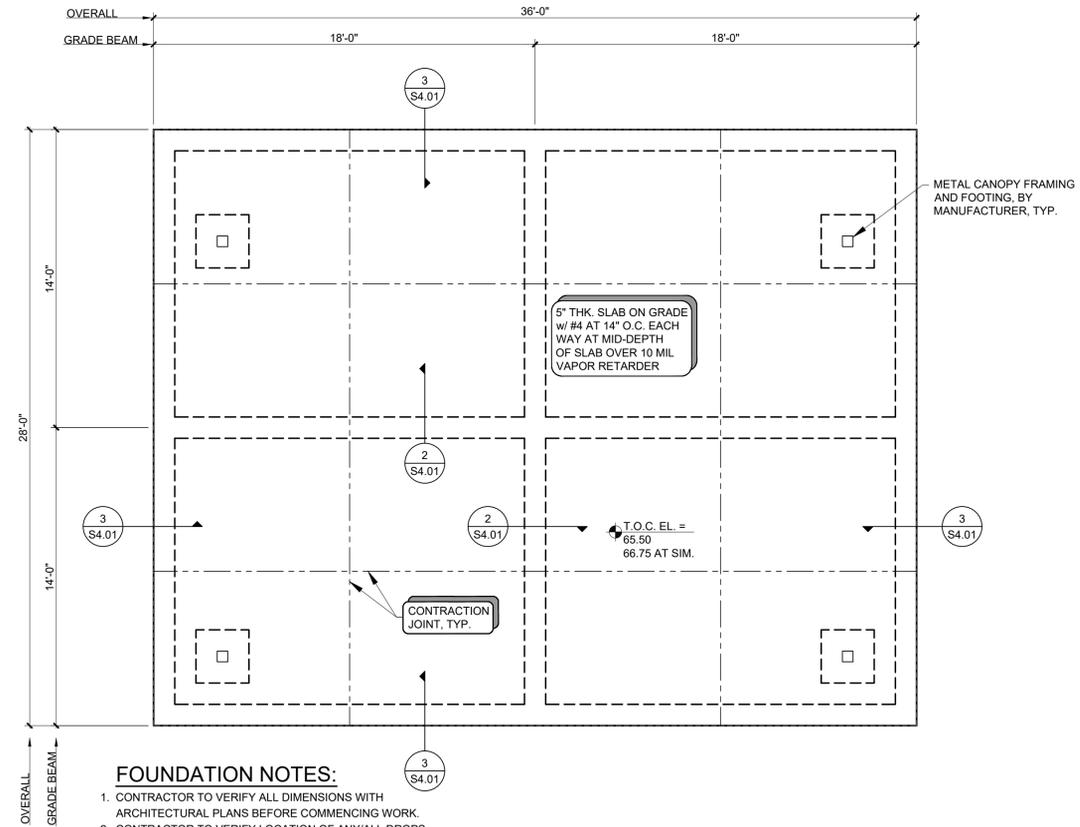
**FOUNDATION PLAN-
 BASKETBALL COURT**
 SCALE: 1/4"=1'-0"



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 7/S2.01
5. TOP OF CONCRETE ELEVATION (T.O.C. EL.) = FINISH FLOOR. UNLESS RECESSED TO RECEIVE FLOORING MATERIALS.
6. METAL CANOPIES ABOVE PICNIC AREA BY OTHERS. SEE LANDSCAPE.

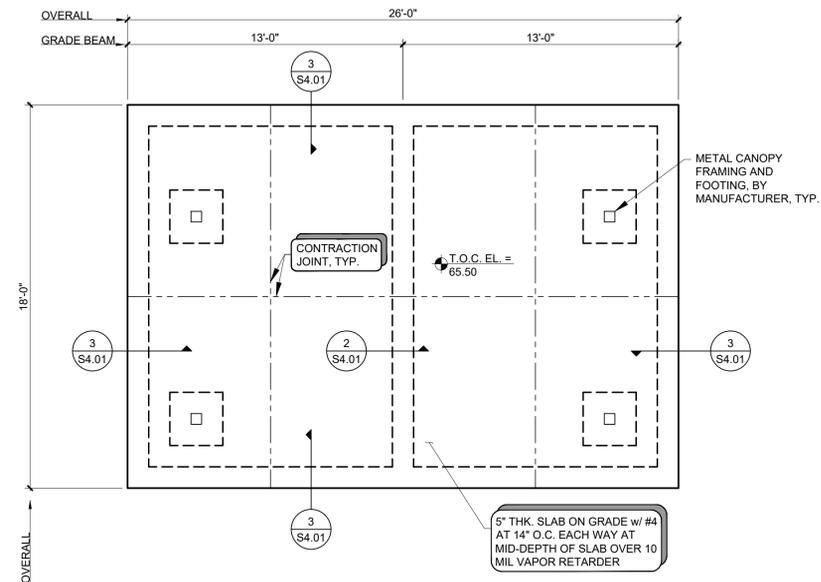
**FOUNDATION PLAN-
3 SINGLE PICNIC UNIT**
SCALE: 1/4"=1'-0"



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 7/S2.01
5. TOP OF CONCRETE ELEVATION (T.O.C. EL.) = FINISH FLOOR. UNLESS RECESSED TO RECEIVE FLOORING MATERIALS.
6. METAL CANOPIES ABOVE PICNIC AREA BY OTHERS. SEE LANDSCAPE.

**FOUNDATION PLAN-
1 GROUP PICNIC UNIT**
SCALE: 1/4"=1'-0"



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 7/S2.01
5. TOP OF CONCRETE ELEVATION (T.O.C. EL.) = FINISH FLOOR. UNLESS RECESSED TO RECEIVE FLOORING MATERIALS.
6. METAL CANOPIES ABOVE PICNIC AREA BY OTHERS. SEE LANDSCAPE.

**FOUNDATION PLAN-
2 DOUBLE PICNIC UNIT**
SCALE: 1/4"=1'-0"



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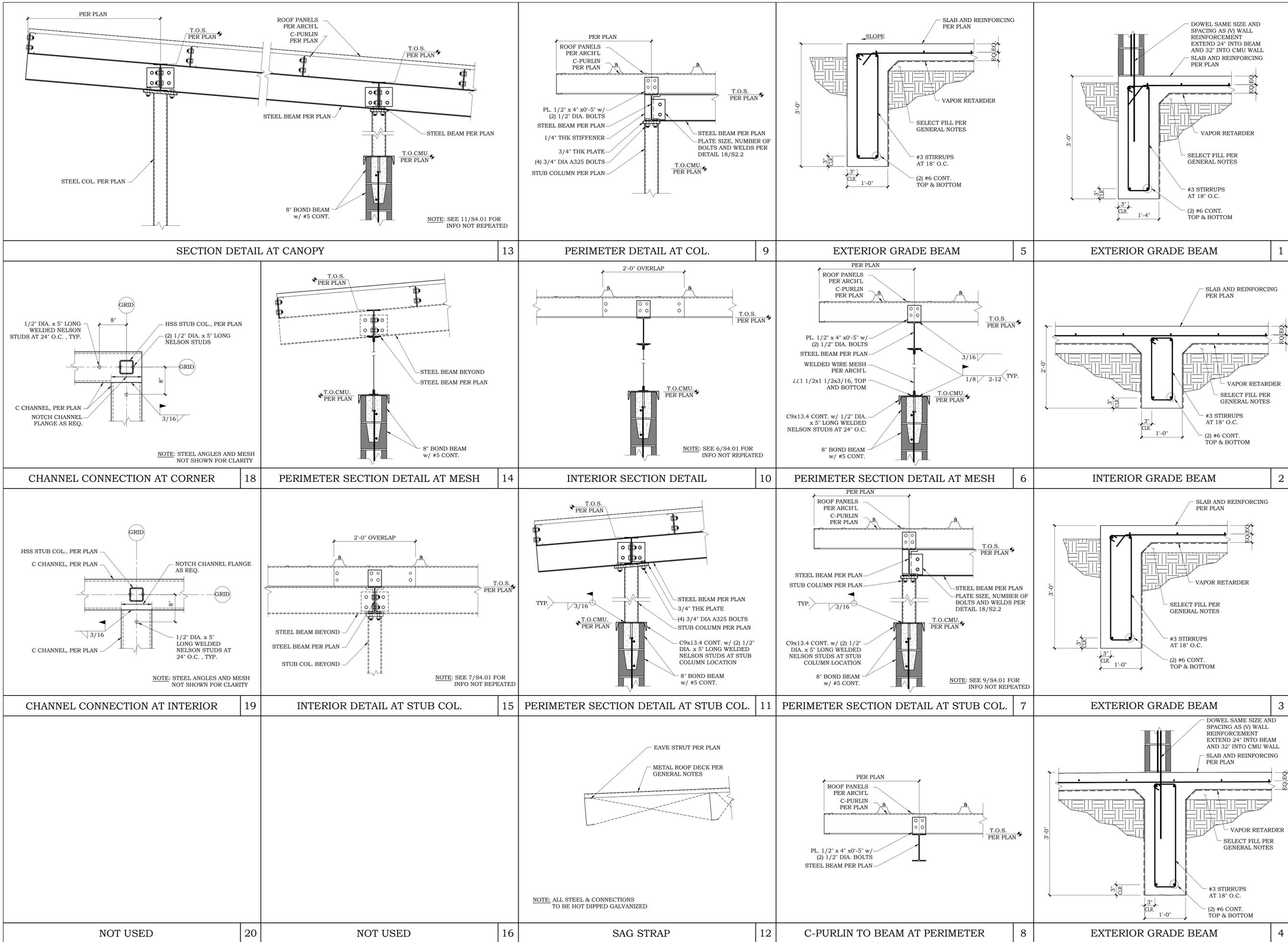


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**MERCEDES
SPORTS PARK
PHASE 1**
USA
MERCEDES, TEXAS

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S3.04



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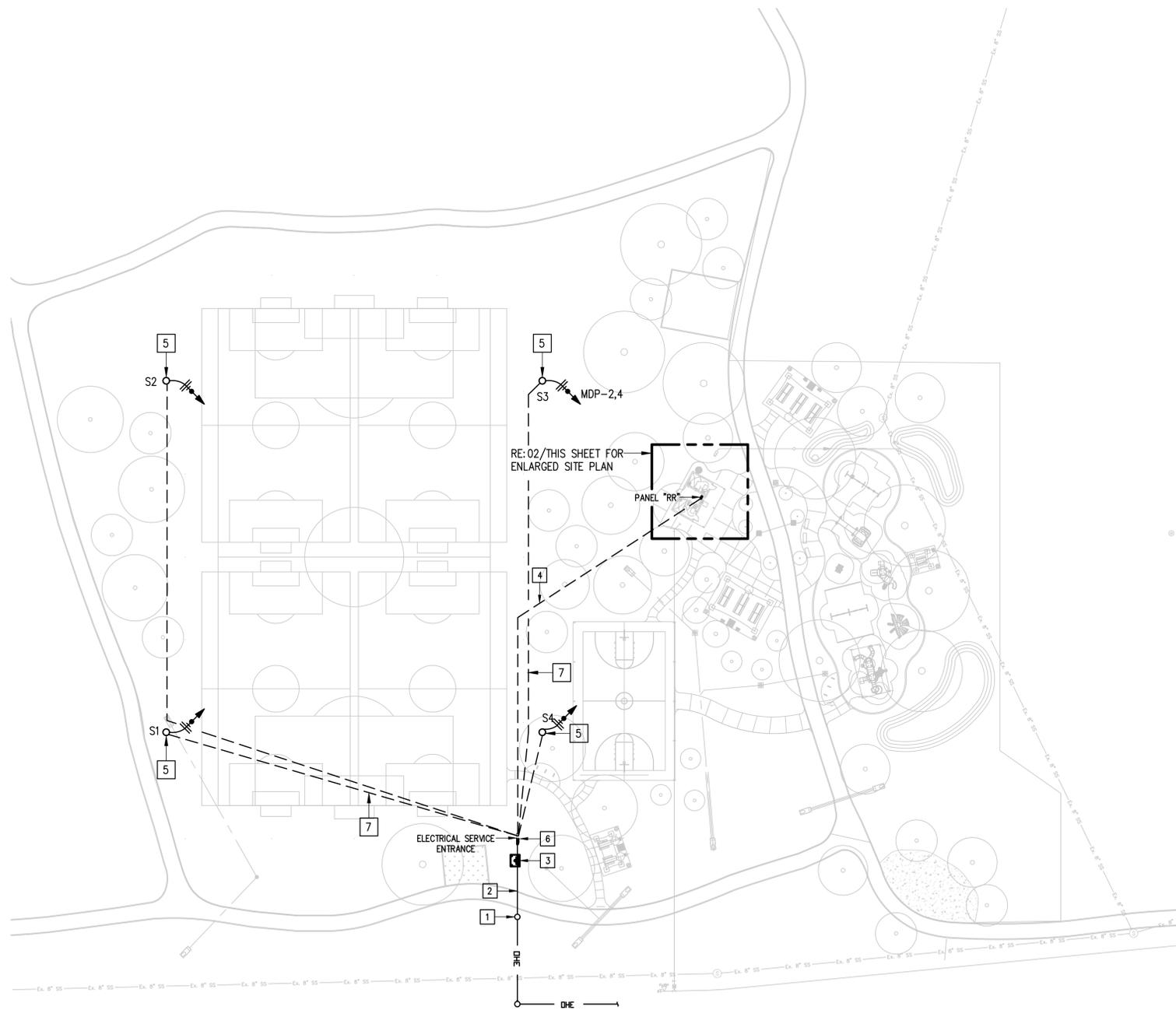


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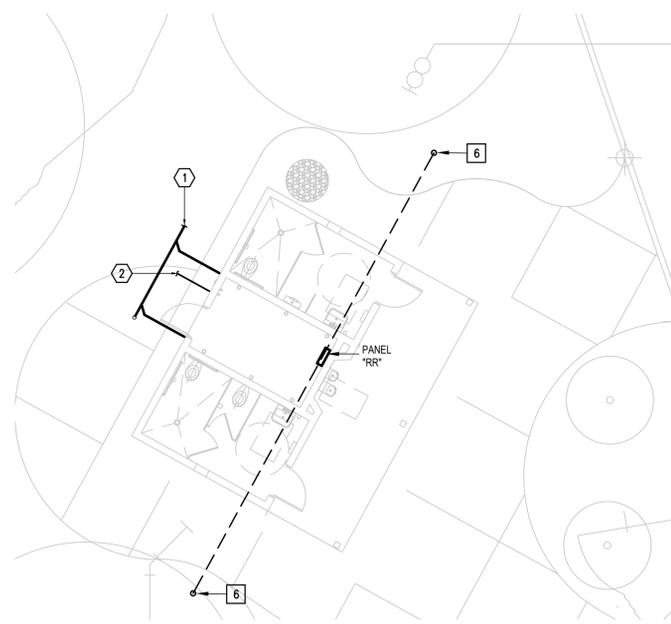
MERCEDES SPORTS PARK 1
 PHASE - USA
 MERCEDES, TEXAS

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S4.01



01 SITE PLAN
SCALE: 1" = 40' = 0"
NORTH



02 PARTIAL ENLARGED M.E.P. SITE PLAN
SCALE: 1/8" = 1' = 0"
NORTH

ELECTRICAL KEYED NOTES:

- 1 PROPOSED ELECTRIC UTILITY PRIMARY RISER POLE BY ELECTRIC UTILITY.
- 2 PROVIDE NEW BURIED PRIMARY ELECTRIC CONDUIT. CONDUCTORS BY ELECTRIC UTILITY.
- 3 PROVIDE NEW ELECTRIC UTILITY PAD MOUNT TRANSFORMER CONCRETE PAD. TRANSFORMER BY ELECTRIC UTILITY. SEE DETAIL 01/E5.01
- 4 PROVIDE BURIED SECONDARY FEEDER. SEE FEEDER SCHEDULE.
- 5 ALTERNATE #2: PROVIDE STUB-OUTS FOR FUTURE SPORT LIGHTING EQUIPMENT (2" FOR EACH WITH GALVANIZED PULLWIRE). PROVIDE A GROUND ROD, TERMINATE 12" BELOW GRADE AS MARKING POINT.
- 6 ALTERNATE #2: STUB-UP SPORTS LIGHTING CONDUITS AT FUTURE LOCATION OF SPORTS LIGHTING CONTROLLER.
- 7 ALTERNATE #2: PLACE CONDUITS IN SHARED TRENCH.
- 8 EMPTY RACEWAYS FROM PANEL "RR" TERMINATION POINT - SEE SHEET E4.01 FOR QUALITY & SIZE.

PLUMBING KEYED NOTES:

- 1 PROVIDE 4" SANITARY SEWER LINE. REFER TO PLUMBING PLAN FOR MORE DETAILS AND CIVIL PLANS FOR CONNECTION AND CONTINUATION.
- 2 2" COLD WATER SERVICE LINE. PROVIDE GATE VALVE IN QUAZITE BOX (NOT SHOWN FOR CLARITY). REFER TO PLUMBING PLAN FOR MORE DETAILS AND CIVIL PLANS FOR CONNECTION AND CONTINUATION.

GENERAL NOTES:

1. COORDINATE WORK AMONG ALL DISCIPLINES. IT IS NOT THE INTENT OF THESE DOCUMENTS TO DICTATE WHO MUST DO THE WORK. ALL WORK SHOWN IS THE RESPONSIBILITY OF THE (PRIME) CONTRACTOR.
2. FIELD VERIFY PROJECT SITE EXISTING CONDITIONS AND ELEVATIONS PRIOR TO BEGINNING ANY WORK.
3. COORDINATE MECHANICAL, ELECTRICAL AND PLUMBING WITH GENERAL CONSTRUCTION.
4. PHASING AND SEQUENCE OF CONSTRUCTION SHALL BE PER ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
5. FIELD VERIFY/SPOT EXACT LOCATIONS AND EXISTING CONDITIONS OF EXISTING PLUMBING, AND ELECTRICAL. IT IS THE INTENT OF THESE PLANS TO PROVIDE A COMPLETE AND WORKABLE SYSTEMS. SHOULD BIDDER FIND OMISSIONS OR DISCREPANCIES IN THE PLANS, BIDDER SHALL NOTIFY THE ENGINEER PRIOR TO THE BID DATE AND A WRITTEN CLARIFICATION WILL BE ISSUED.
6. DAMAGED ITEMS SHALL BE REPAIRED AT NO ADDITIONAL COST TO OWNER. CONTRACTORS ARE REQUIRED TO SEARCH AND INVESTIGATE FOR EXISTING UTILITIES BEFORE EXCAVATING.
7. ALL MATERIALS AND LABOR, WHETHER SPECIFICALLY INDICATED ON PLANS OR NOT, WHICH ARE NECESSARY FOR THE PROPER INSTALLATION AND FUNCTION OF THE SYSTEM SHALL BE FURNISHED BY THIS CONTRACTOR. INCLUDE ALL COSTS OF CHANGES, IF/AS REQUIRED IN BID PROPOSAL.
8. PROVIDE J-BOXES (POLYMER CONCRETE) AS REQUIRED FOR PULL WIRING.
9. ELECTRICAL WIRING SHALL NOT BE SPUNCE BELOW GRADE.
10. PERFORM ALL WORK PER LATEST VERSION OF NATIONAL ELECTRICAL CODE, AND APPLICABLE LOCAL CODES AND ORDINANCES, UNLESS DRAWINGS OR SPECIFICATIONS HAVE MORE STRINGENT REQUIREMENTS.
11. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND FEES ASSOCIATED WITH PROJECT, INCLUDING FEES FOR INSPECTIONS, APPLICATIONS, AND PROVISION OF NEW SERVICES.
12. CONTRACTOR WHO WILL ACTUALLY PERFORM WORK MUST APPLY FOR ALL REQUIRED PERMITS.
13. NOTIFY ENGINEER OF ANY ASPECTS OF DESIGN WHICH ARE THOUGHT TO BE IN NONCOMPLIANCE WITH APPLICABLE CODES.
14. COORDINATE ALL WORK WITH OTHER TRADES; COORDINATE SCHEDULE OF WORK WITH ALL SUB-CONTRACTORS TO ACHIEVE SMOOTH FLOW OF CONSTRUCTION.
15. SEAL AROUND ELECTRICAL RACEWAYS AT ALL WALLS, A/C ROOMS AND WALL LOUVER PENETRATIONS WITH FIREPROOF CAULKING, RE: SPECS. PROVIDE FLASHING AROUND PENETRATION, BOTH INSIDE AND OUTSIDE, TO PROVIDE FINISHED LOOK.
16. TIME OR MONEY ALLOWANCES WILL NOT BE MADE TO ACCOMMODATE UTILITY CONFLICTS THAT CAN BE REASONABLY RESOLVED BY COORDINATION DURING SHOP DRAWING PHASE.
17. CONTRACTOR SHALL REVIEW COMPLETE DOCUMENTS PRIOR TO SUBMITTAL OF PROPOSAL TO GAIN COMPLETE UNDERSTANDING OF PROJECT SCOPE, WORK BY OTHERS, AND ELECTRICAL WORK ASSOCIATED WITH OTHER DISCIPLINES.
18. MAINTAIN MANUFACTURER RECOMMENDED CLEARANCE AROUND ALL EQUIPMENT.
19. AFFIX ID TAGS TO ALL DIVISION 26 EQUIPMENT.
20. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH MECHANICAL AND PLUMBING CONTRACTOR REGARDING EQUIPMENT SIZES AND TYPES OF ELECTRICAL INTERFACE EQUIPMENT REQUIRED.
21. FIELD VERIFY ALL CONDITIONS AND MEASURE DIMENSIONS WITHIN THE BUILDING PRIOR TO ORDERING EQUIPMENT AND/OR PROCEEDING WITH INSTALLATION.
22. ALL EQUIPMENT SHALL BE FACTORY TESTED, AND CONTRACTOR SHALL VERIFY THEIR CONDITION PRIOR TO INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR EQUIPMENT DAMAGED DURING MOVING AND INSTALLATION.
23. EQUIPMENT FOUND DEFECTIVE PRIOR TO FINAL ACCEPTANCE SHALL BE REPLACED AT NO COST TO OWNER.
24. WORK TO BE DONE UNDER ALLOWANCES BECOMES AN INTEGRAL PART OF THE PROJECT AND RESPONSIBILITY OF CONTRACTOR ONCE ALLOWANCE IS APPROVED.
25. SLEEVE ALL EXTERIOR WALL PENETRATIONS.
26. CONTRACTOR SHALL NOT PROCEED WITH ANY WORK INVOLVING A CHANGE IN PROJECT SCOPE OR COST WITHOUT FIRST HAVING OBTAINED ENGINEER'S APPROVAL IN WRITING. UNLESS ENGINEER HAS AGREED TO SUCH CHANGE PRIOR TO IT BEING DONE, AND HAS AGREED THAT AN INCREASE IN COST ASSOCIATED WITH SUCH CHANGE IS WARRANTED; CONTRACTOR WILL NOT BE REIMBURSED FOR SUCH CHANGE.



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DATE: 11.26.2018
DRAWN BY: ETHOS
CHECKED BY: RP/CAG



MEP1.01

ABBREVIATIONS:

A	AMPS	GALV.	GALVANIZED
ABC	ABOVE CEILING LINE	GRND.	GROUND
AC	ABOVE COUNTER BACKSPLASH	HP	HORSEPOWER
AFF	ABOVE FINISHED FLOOR	HVAC	HEATING, VENTILATION, & AIR CONDITIONING
B.	BOTTOM		
BLC.	BELOW CEILING LINE	MECH	MECHANICAL
C.	CONDUIT OR COMMON	NTS	NOT TO SCALE
CLG.	CEILING	PH	PHASE
COND.	CONDUIT	RM.	ROOM
CU.	COPPER	SS	STAINLESS STEEL
DISC.	DISCONNECT	UG	UNDERGROUND
EF	EXHAUST FAN	UNO	UNLESS OTHERWISE NOTED
EXT.	EXTERNAL OR EXTERIOR	V	VOLTS
G.	GROUND	W	WIRE

WIRING DEVICES SYMBOL LEGEND:

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
	DUPLX RECEPTACLE TAMPER RESISTANT – HUBBELL MODEL #BR20WRTR	18" AFF
	DUPLX RECEPTACLE W/ GROUND FAULT INTERRUPTING TYPE – HUBBELL MODEL #GF20X	18" AFF
	DUPLX RECEPTACLE TAMPER RESISTANT W/ GRND. FAULT INTERRUPTING TYPE – HUBBELL MODEL #GFWRST20X & WHILE IN USE WEATHERPROOF COVER – HUBBELL MODEL #WP26EH	18" AFF
	JUNCTION BOX W/ BLANK COVERPLATE	AS REQUIRED
	SINGLE POLE TOGGLE SWITCH – HUBBELL MODEL #HBL1221X	48" AFF
	KEYED TOGGLE SWITCH CORBIN TYPE – HUBBELL MODEL #HBL1221RKLX	48" AFF
	POLYMER CONCRETE PULL BOX W/ LOGO COVER – SEE DETAIL	AS REQUIRED

NOTES:
 U.N.O. INDICATES UNLESS NOTED OTHERWISE.
 18" AFF INDICATES TO TOP OF DEVICE.
 48" AFF INDICATES TO TOP OF DEVICE.
 ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.
 AC INDICATES 4" ABOVE COUNTER TO BOTTOM OF DEVICE.

ELECTRICAL SCOPE OF WORK:

- A. THE FOLLOWING SUMMARY OF WORK IS INTENDED AS AN AID TO ACHIEVE AN UNDERSTANDING OF THE VARIOUS ELEMENTS OF WORK INCLUDED IN THE PROJECT, AS IS NOT INTENDED TO BE ALL-INCLUSIVE. DETAILED DESCRIPTIONS OF WORK AND REQUIREMENTS ARE GIVEN IN DRAWINGS AND SPECIFICATIONS.
- B. SCOPE OF WORK:
- GENERAL: THE 'MERCEDES SPORTS PARK PHASE 1' CONSISTS OF NEW SINGLE STORY RESTROOM BUILDING, APPROXIMATELY 394 FT2 AND A SPORTS SOCCER FIELD.
 - ELECTRICAL: PROVIDE ALL MATERIALS AND LABOR ASSOCIATED WITH COMPLETE OPERATIONAL ELECTRICAL DISTRIBUTION SYSTEM. MAJOR ITEMS OF WORK INCLUDE, BUT ARE NOT LIMITED TO:
 - ELECTRICAL SERVICE: PROVIDE A NEW UNDERGROUND ELECTRICAL SERVICE; IT SHALL CONSIST OF UNDERGROUND ELECTRICAL RACEWAYS AND CONCRETE PAD FOR UTILITY TRANSFORMER.
 - LIGHTING SYSTEMS: RESTROOM BUILDING LIGHTING SYSTEMS SHALL CONSIST OF VANDAL RESISTANT LED TYPE. THIS CONTRACTOR TO PROVIDE RACEWAYS ONLY FOR FUTURE SPORTS LIGHTING.
 - POWER SYSTEMS: PROVIDE MISCELLANEOUS DUPLX RECEPTACLES AND CONNECTIONS FOR PLUMBING EQUIPMENT.
 - INTRUSION DETECTION SYSTEM: PROVIDE ROUGH-IN ONLY.
 - COMMISSIONING: PROVIDE FOR THE LIGHTING EQUIPMENT AND LIGHTING CONTROLS AS REQUIRED PER IECC 2015.

SUBMITTALS –SPECIAL REQUIREMENTS

- A. MANUFACTURER'S STANDARD DIMENSIONED DRAWINGS, PERFORMANCE AND PRODUCT DATA SHALL BE EDITED TO DELETE REFERENCE TO EQUIPMENT, FEATURES, OR INFORMATION, WHICH IS NOT APPLICABLE TO THE EQUIPMENT BEING SUPPLIED FOR THIS PROJECT. INCLUDING BILL OF MATERIALS.
- B. FAXES AND COPIES OF FAXES ARE NOT ACCEPTABLE.
- C. ELECTRICAL SUBMITTALS SHALL BE SUBMITTED ELECTRONICALLY. PLEASE ORGANIZE THE FILES IN PACKAGES AS FOLLOWS (PDF FORMAT). FILES WOULD NEED TO BE PROPERLY IDENTIFIED (COVER LETTER, STAMPED, ETC.) FROM THE GENERAL CONTRACTOR.
- MISCELLANEOUS ELECTRICAL
 - 260519 LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES
 - 260526 GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS
 - 260529 HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS
 - 260533 RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS
 - 260544 SLEEVES AND SLEEVE SEALS FOR ELECTRICAL RACEWAYS AND CABLING
 - 260553 IDENTIFICATION FOR ELECTRICAL SYSTEMS
 - 262726 WIRING DEVICES
 - 262816 ENCLOSED SWITCHES AND CIRCUIT BREAKERS
 - 260850 HAND DRYER
 - ELECTRICAL GEAR
 - 262416 PANELBOARDS
 - LIGHT FIXTURES
 - 265116 INTERIOR LIGHTING
 - 265621 EXTERIOR LIGHTING
 - ELECTRICAL COMMISSIONING
 - 260800 COMMISSIONING OF ELECTRICAL SYSTEMS

GENERAL SYMBOL LEGEND:

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
	DISCONNECT SWITCH – NON FUSED	AS REQUIRED
	EQUIPMENT CONNECTION	AS REQUIRED
	ELECTRICAL PANELBOARD – SURFACE MOUNTED	AS REQUIRED
	UNDERGROUND RACEWAY	AS REQUIRED
	CONCEALED RACEWAY	AS REQUIRED
	CONDUIT OR EMT HOMERUN TO PANELBOARD CONCEALED IN WALLS OR ABOVE CEILING. LONG CROSSMARKS DENOTE NUMBER OF "HOT" CONDUCTORS SHORT CROSSMARKS INDICATE NEUTRALS AND DOTS INDICATE NUMBER OF GROUND CONDUCTORS. ARROW INDICATES HOME RUN TO ELECTRICAL PANEL.	AS REQUIRED

LIGHTING SYMBOL LEGEND:

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
	SURFACE/WRAPAROUND LIGHT FIXTURE	-----
	SURFACE/WRAPAROUND EMERGENCY LIGHT FIXTURE CONNECT BATTERY PACK TO BE ON AT ALL TIMES (UNSWITCHED)	-----
	WALL MOUNT LIGHT FIXTURE – TYPE AS NOTED	-----
	DIGITAL ASTRONOMICAL TIME CLOCK WALL MOUNTED – INTERMATIC # ET8015CR	AS REQUIRED

NOTES:
 1.) REFERENCE LIGHT FIXTURE SCHEDULE FOR ALL MOUNTING HEIGHTS.

INTRUSION DETECTION SYSTEMS SYMBOL LEGEND:

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
	MOTION DETECTOR – PROVIDE BACK BOX WITH 1/2" RACEWAY STUBBED INTO. WITH PULL WIRE A J-BOX AT JANITOR/STORAGE.	-----
	DOOR CONTACT – PROVIDE BACK BOX WITH 1/2" RACEWAY STUBBED INTO. WITH PULL WIRE A J-BOX AT JANITOR/STORAGE.	-----

NOTES:
 1.) PRIOR TO ANY ROUGH-IN COORDINATE EXACT LOCATION OF BACK BOXES WITH OWNER.



11.26.2018

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**MERCEDES
 SPORTS PARK - 1
 PHASE - 1
 MERCEDES, TEXAS**

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E2.01



11.26.2018

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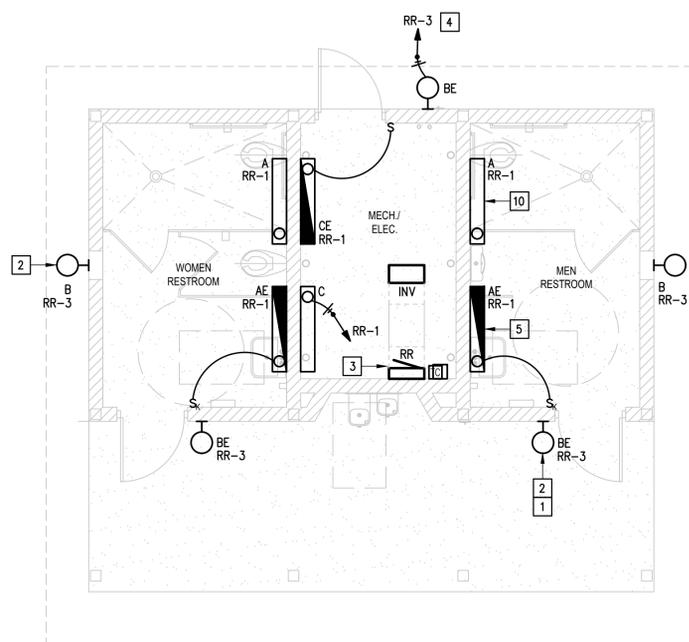
E3.01

GENERAL NOTES:

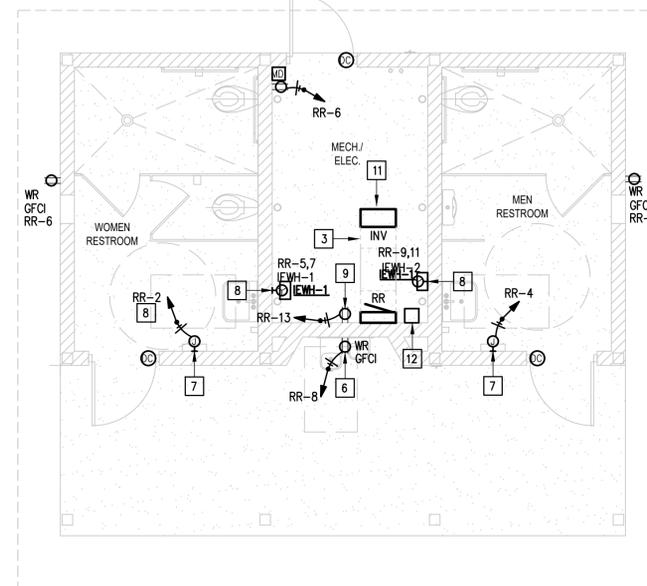
1. BRANCH CIRCUIT HOMERUNS SHALL BE 3/4" - 2#12 & #12G.
2. 20A/120V HOMERUNS EXCEEDING 100FT THE WIRE SIZE SHALL BE #10 & #8 FOR 175'.
3. EXTERIOR LIGHTING CONTROLS SHALL BE BY TIME CLOCK.
4. EACH 20A/1P BRANCH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL.
5. HOMERUNS - INSTALL NO MORE THAN THREE PER RACEWAY (INCLUDING LIGHTING BRANCH CIRCUITS).
6. PROVIDE ALL ELECTRICAL RECEPTACLES INSTALLED WITH THE GROUND OPENING IN THE "UP" POSTING.
7. ELECTRICAL RACEWAYS: THEY SHALL BE CONCEALED WITHIN WALLS AND CHASES, THEY ARE NOT TO BE EXPOSED. ALL HOMERUNS NOT CONCEALED IN WALLS AND CHASES SHALL BE ROUTED UNDERGROUND. RACEWAYS ARE NOT ALLOWED TO BE EMBEDDED IN THE FLOOR SLAB.

KEYED NOTES:

- 1 CONNECT EMERGENCY BATTERY PACK TO BE CHARGING AT ALL TIMES (UNSWITCHED). LIGHT FIXTURE SHALL BE OPERATED BY THE CORRESPONDING SWITCH - TYPICAL.
- 2 WALL MOUNT LIGHT FIXTURE TYPE 'B' AT 8'-0" AFF TO TOP OF FIXTURE (UNO) - TYPICAL.
- 3 NO DUCTWORK OR PIPING TO BE ROUTED ABOVE PANELBOARDS. COORDINATE WITH OTHER TRADES - TYPICAL.
- 4 SWITCH VIA TIME CLOCK.
- 5 CONNECT VIA EMERGENCY LIGHTING INVERTER "INV" - TYPICAL.
- 6 CONNECT ELECTRIC DRINKING FOUNTAIN; BRANCH CIRCUIT: 1/2" - 2#12 & #12G. ROUGH-IN AT 17'-7/16" TO CENTER OF J-BOX. COORDINATE WITH PLUMBING CONTRACTOR.
- 7 PROVIDE INFRARED RECESSED MOUNTED HAND DRYER. HAND DRYER SHALL BE EXCEL- XL-SB (NO SUBSTITUTIONS) WITH ADA RECESS KIT. BRANCH CIRCUIT: 1/2" - 2#12 & #12G. MOUNT AT +37" A.F.F. (BOTTOM). VERIFY THE EXACT LOCATION WITH THE ARCHITECTURAL PLANS.
- 8 CONNECT INSTANTANEOUS WATER HEATER; BRANCH CIRCUIT: 3/4" - 2#10 & #10G. MEANS OF DISCONNECT IS THE CIRCUIT BREAKER WITHIN SIGHT.
- 9 CONNECT IRRIGATION CONTROLLER.
- 10 WALL MOUNT LIGHT FIXTURES AT 8'-0" AFF TO CENTER OF FIXTURE - TYPICAL.
- 11 PROVIDE EMERGENCY LIGHTING INVERTER MYERS MODEL NO. LV-1-R-1-B-20-06-ON FREE STANDING UNISTRUT RACK SECURED TO FLOOR.
- 12 J-BOX 8"X8" FOR FUTURE INTRUSION DETECTION CONTROL PANEL.



01 LIGHTING PLAN
SCALE: 1/4" = 1'-0"
NORTH



02 ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"
NORTH

MDP											
ROOM OUTDOORS			VOLTS 208Y/120V 3P 4W			AIC 22,000					
MOUNTING SURFACE			BUS AMPS 400			MAIN BKR 400					
FED FROM UTILITY			NEUTRAL 100%			LUGS STANDARD					
NOTE: PROVIDE A TYPE WRITTEN AS BUILT DIRECTORY.											
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	30/2	SPARE	2.55			2	30/2	SPARE	2.55		
3			2.55			4					
5	30/2	SPARE			2.55	6	30/2	SPARE			2.55
7			2.55			8			2.55		
9	100/2	PANEL RR		6.66		10	20/2	SPARE		0	
11				6.56		12				0	
13	20/2	SPACE	0			14	20/1	SPACE	0		0
15				0		16	20/1	SPACE		0	
17	20/1	SPACE			0	18	20/1	SPACE			0
19	20/1	SPACE	0			20	20/1	SPACE	0		0
21	20/1	SPACE			0	22	20/1	SPACE		0	
23	20/1	SPACE			0	24	20/1	SPACE		0	0
TOTAL CONNECTED KVA BY PHASE									10.2	11.8	11.7
LIGHTING			CONN KVA	CALC KVA	(125%)	RECEPTACLES			CONN KVA	CALC KVA	(50%)(10)
			20.8	26		NONCONTINUOUS			4.52	8.32	(100%)
						TOTAL LOAD			38.8		
						BALANCED 3-PHASE AMPS			108		

1. PROVIDE A NEMA 4XSS OUTDOOR ENCLOSURE

LUMINAIRE SCHEDULE									
CALLOUT	LAMP	DESCRIPTION	DRIVER	MOUNTING	MODEL	INPUT WATTS	VOLTS	NOTE	
A	LED	4' VANDAL RESISTANT WRAPAROUND	0-10V	SURFACE	KENALL: MLHA8-48-R-MW-CP-45L40K-DCC-DV LAMAR: AVRL-X-40-PW	50	120V 1P 2W	PROVIDE UL LISTED FOR DAMP LOCATIONS.	
AE	LED	4' VANDAL RESISTANT WRAPAROUND	0-10V	SURFACE	KENALL: MLHA8-48-R-MW-CP-45L40K-DCC-DV LUMINAIRE LED: VPF84 50W 4000K DIM 120-277 OP WHT	50	120V 1P 2W	PROVIDE UL LISTED FOR DAMP LOCATIONS AND CONNECT TO EMERGENCY LIGHTING INVERTER	
B	LED	WALLPACK	0-10V	SURFACE	KENALL: H1212EL-PP-DB-20L40K-DV LSI: TMWP-43W-45K-BZ-PC120	20	120V 1P 2W	PROVIDE UL LISTED FOR WET LOCATIONS. FINISH TBD.	
BE	LED	WALLPACK	0-10V	SURFACE	KENALL: H1212EL-PP-DB-20L40K-DV-LEL LSI: TMWP-43W-45K-BZ-PC120-EB	20	120V 1P 2W	PROVIDE UL LISTED FOR WET LOCATIONS AND WITH AN EMERGENCY BATTERY PACK. FINISH TBD.	
C	LED	48" LED STRIP LIGHT	0-10V	SURFACE	LITHONIA: ZL1N L48 3000LM FST MVOLT 40K 80CRI WH LSI: SDL 4 LED LW CW UE	42	120V 1P 2W	PROVIDE WITH A 0-10V DIMMING DRIVER.	
CE	LED	48" LED STRIP LIGHT	0-10V	SURFACE	LITHONIA: ZL1N L48 3000LM FST MVOLT 40K 80CRI WH LSI: SDL 4 LED LW CW UE	42	120V 1P 2W	PROVIDE WITH A 0-10V DIMMING DRIVER AND CONNECT TO EMERGENCY LIGHTING INVERTER VIA BODINE GTD TRANSFER DEVICE.	

GENERAL NOTES:

- OTHER LIGHT FIXTURE AND BALLAST MANUFACTURERS THAN THOSE LISTED ON THIS SCHEDULE ARE REQUIRED TO OBTAIN PRIOR APPROVAL BY SUBMITTING CUT SHEETS OF THEIR SUBSTITUTIONS AT LEAST (10) DAYS PRIOR TO BID. CUT SHEETS SHALL INDICATE/HIGHLIGHT PHOTOMETRIC CURVE, EFFICIENCY & CONSTRUCTION FOR DIRECT COMPARISON WITH SPECIFIED FIXTURES AND BALLAST.
- EXTRA MATERIALS: SEE SPECIFICATIONS.
- EMERGENCY BATTERY PACKS SHALL BE COMPLETE FACTORY INSTALLED WITH NI-CAD BATTERY, CHARGER INDICATING LIGHT, ELECTRONIC CIRCUITRY, 1400 LUMENS OUTPUT, 90 MINUTES DURATION & FIVE FULL YEARS WARRANTY.
- FURNISH ALL 2' X 4' LAY-IN LIGHT FIXTURES WITH INTEGRAL CEILING CLIPS.

RR											
ROOM JANITOR/STORAGE			VOLTS 208/120V 2P 3W			AIC 10,000					
MOUNTING SURFACE			BUS AMPS 225			MAIN BKR 100					
FED FROM MDP			NEUTRAL 100%			LUGS STANDARD					
NOTE: PROVIDE A TYPE WRITTEN AS BUILT DIRECTORY THAT INCLUDES ROOM NUMBERS.											
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	20/1	LIGHTING	0.284			2	20/1	HAND DRYER	1.5		1.5
3	20/1	LIGHTING		0.1		4	20/1	HAND DRYER			
5	30/2	IEWH-1	2.08			6	20/1	RECEPT.	0.54		
7			2.08		2.08	8	20/1	DRINKING FOUNTAIN			0.8
9	30/2	IEWH-2	2.08			10	20/1	SPARE		0	0
11				2.08		12	20/1	SPARE		0	0
13	20/1	IRRIGATION CONTROLLER	0.18			14	20/1	SPARE	0		0
15	20/1	SPACE		0		16	20/1	SPACE		0	0
17	20/1	SPACE	0			18	20/1	SPACE		0	0
19	20/1	SPACE		0		20	20/1	SPACE		0	0
21	20/1	SPACE	0			22	20/1	SPACE		0	0
23	20/1	SPACE		0		24	20/1	SPACE		0	0
25	20/1	SPACE		0		26	20/1	SPACE		0	0
27	20/1	SPACE		0		28	20/1	SPACE		0	0
29	20/1	SPACE		0		30	20/1	SPACE		0	0
TOTAL CONNECTED KVA BY PHASE									6.66	6.56	
LIGHTING			CONN KVA	CALC KVA	(125%)	RECEPTACLES			CONN KVA	CALC KVA	(50%)(10)
			0.384	0.48		NONCONTINUOUS			4.52	8.32	(100%)
						TOTAL LOAD			13.3		
						BALANCED AMPS			64		



01 LIGHT FIXTURE TYPE "A"
SCALE: NOT TO SCALE



02 LIGHT FIXTURE TYPE "B & BE"
SCALE: NOT TO SCALE

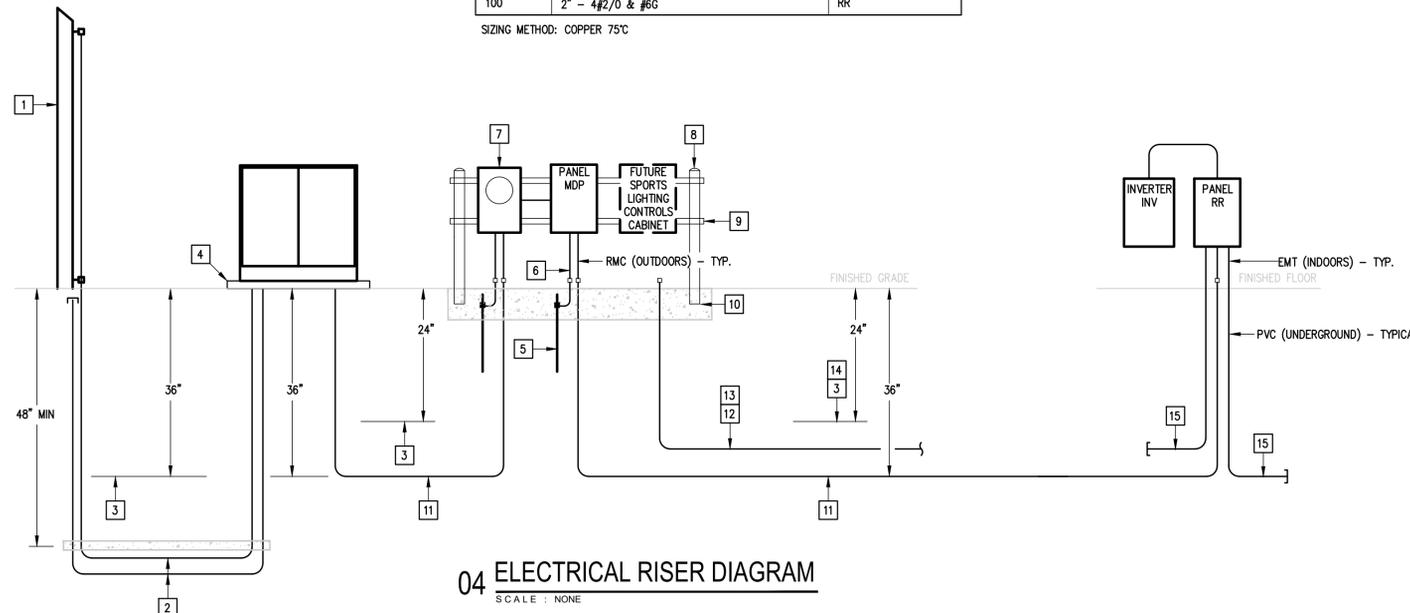


03 LIGHT FIXTURE TYPE "C"
SCALE: NOT TO SCALE

FEEDER SCHEDULE:

FEEDER AMPS	CONDUIT AND FEEDER	FEEDING THESE DEVICES
400	4" - 4#600KCMIL	METER
400	4" - 4#600KCMIL & #3G	MDP
100	2" - 4#2/0 & #6G	RR

SIZING METHOD: COPPER 75°C



04 ELECTRICAL RISER DIAGRAM
SCALE: NONE

KEYED NOTES:

- PROPOSED ELECTRIC UTILITY RISER POLE BY ELECTRIC UTILITY COMPANY.
- PROVIDE (2)-4" PVC RACEWAYS WITH LONG SWEEP RADIUS ELBOWS AND 4" RED CONCRETE TOPPING. PRIMARY CONDUCTORS BY ELECTRIC UTILITY COMPANY.
- PROVIDE CONTINUOUS DETECTABLE UNDERGROUND WARNING TAPE.
- PROVIDE UTILITY TRANSFORMER CONCRETE PAD - SEE DETAIL 01/E5.01.
- PROVIDE 1/2" - #6G, 3/4"x10' COPPER CLAD GROUND ROD AND CLAMP.
- PROVIDE 1/2" - #6G, 3/4"x10' COPPER CLAD GROUND ROD AND CLAMP.
- PROVIDE METER SOCKET, METER BY ELECTRIC UTILITY COMPANY.
- 4" DIA. X 6' (ABOVE GROUND) HOT DIP GALVANIZED STEEL PIPE WITH CAP.
- 3-1/4" X 1-5/8", 12 GAUGE UNISTRUT, HOT DIP GALVANIZED AFTER FABRICATION.
- 2'(W) X 6'(L) X 2'(D) 4" ABOVE GRADE CONCRETE FOOTING WITH #4 REBAR WELDED ON TO 4" DIA. STEEL PIPE.
- PROVIDE SECONDARY FEEDER - SEE FEEDER SCHEDULE.
- ALTERNATE #2: PROVIDE FUTURE SPORTS LIGHTING RACEWAYS. SEE MEP SITE PLAN.
- BASE BID - IF ALTERNATE #2 NOT ACCEPTED, PROVIDE 4-2" RACEWAY & STUB-UP ABOVE CONCRETE AND STUB-OUT 2' BEYOND CONCRETE.
- ALTERNATE #2: PROVIDE CONTINUOUS DETECTABLE WARNING TAPE ABOVE SPORTS LIGHTING CONDUITS.
- 3-1" WITH GALVANIZED PULLWIRE - SEE SITE PLAN FOR TERMINATION POINT.



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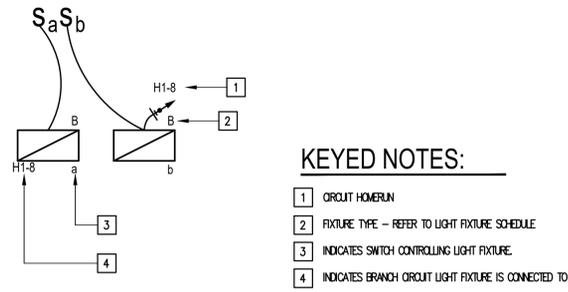
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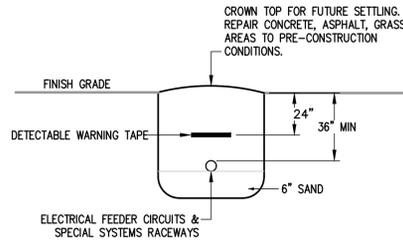
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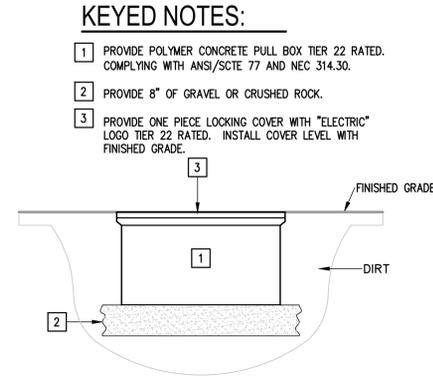
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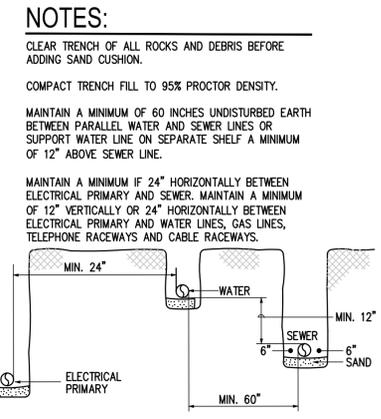
01 LIGHTING LEGEND DETAIL
SCALE : NOT TO SCALE



02 BURIAL DETAIL FOR ELECTRICAL RACEWAYS
SCALE : NONE



03 POLYMER CONCRETE PULLBOX DETAIL
SCALE : NONE



04 TRENCHING DETAIL
SCALE : NONE

NOTES:

CLEAR TRENCH OF ALL ROCKS AND DEBRIS BEFORE ADDING SAND CUSHION.

COMPACT TRENCH FILL TO 95% PROCTOR DENSITY.

MAINTAIN A MINIMUM OF 60 INCHES UNDISTURBED EARTH BETWEEN PARALLEL WATER AND SEWER LINES OR SUPPORT WATER LINE ON SEPARATE SHELVE A MINIMUM OF 12" ABOVE SEWER LINE.

MAINTAIN A MINIMUM IF 24" HORIZONTALLY BETWEEN ELECTRICAL PRIMARY AND SEWER. MAINTAIN A MINIMUM OF 12" VERTICALLY OR 24" HORIZONTALLY BETWEEN ELECTRICAL PRIMARY AND WATER LINES, GAS LINES, TELEPHONE RACEWAYS AND CABLE RACEWAYS.



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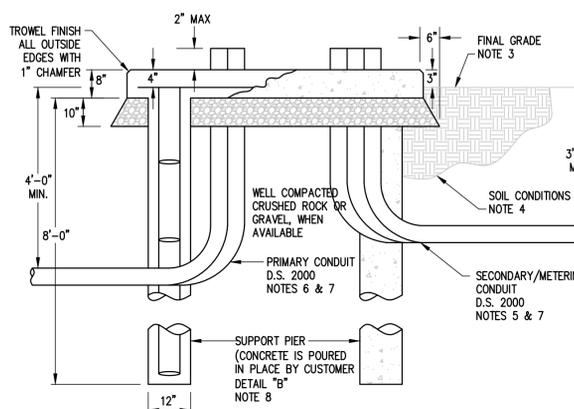
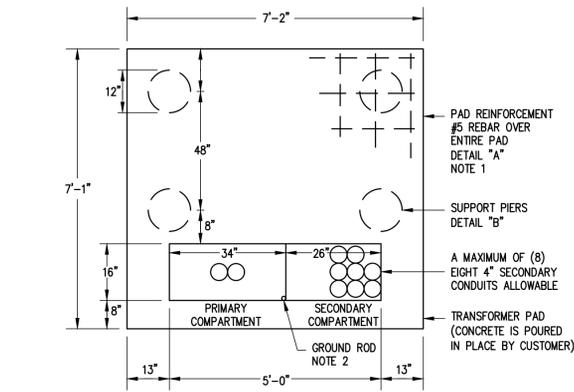
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E5.01

AMERICAN ELECTRIC POWER COMPANY DISTRIBUTION STANDARDS



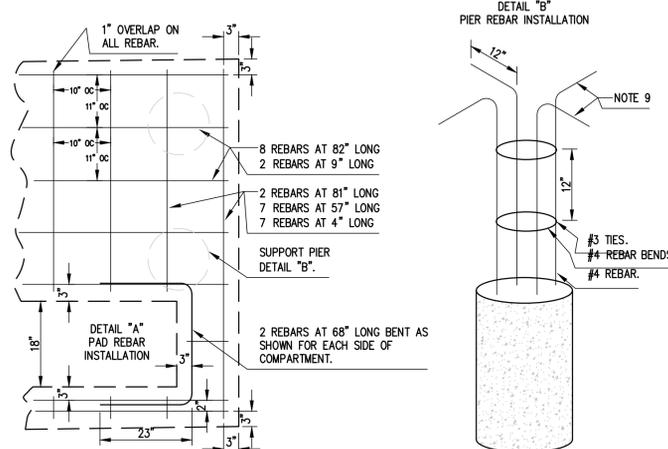
CONCRETE PAD AND PIERS FOR THREE PHASE PAD-MOUNTED TRANSFORMER
HIGH VOLUME CLAY OR SAND TYPE SOIL APPLICATIONS
75KVA - 2500KVA
25KVA AND BELOW

*SINGLE TRANSFORMER ONLY

REV	SCALE: N.T.S.	APP	DATE: 8-16-1999	TP	U03-009.0
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05 AEP TRANSFORMER CONCRETE PAD DETAIL
SCALE : NOT TO SCALE

AMERICAN ELECTRIC POWER COMPANY DISTRIBUTION STANDARDS



NOTES:

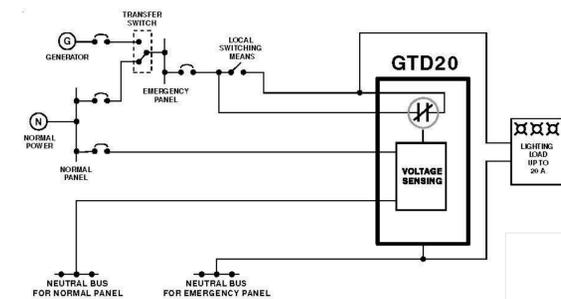
1. SLAB REINFORCEMENT SHALL BE #5 REBAR, ON CENTER (OC) SPACING TO FOLLOW DIMENSIONS SHOWN ON THE DRAWING WITH 4" COVER. REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AFTER 28 DAYS.
2. FOR GROUND ROD PLACEMENT, REFER TO OS 2235, 2236, OR 2237.
3. FINAL GRADE SHALL BE ESTABLISHED BEFORE INSTALLATION OF PAD.
4. CONCRETE PAD WITH PIERS IS TO BE INSTALLED ONLY WHEN HIGH VOLUME CLAY OR SAND TYPE SOILS ARE ENCOUNTERED. THESE SOIL TYPES ARE CHARACTERIZED BY EXTREME SURFACE CONDITION VARIATIONS OVER TIME. WHERE SOIL IS FOUND TO BE TOTALLY BEDROCK, SHADE, OR HARDPAN, ELIMINATE DRILLED PIERS AND REFER TO DS 2020 OR DS 2021.
5. THE NUMBER AND PLACEMENT OF SECONDARY CONDUITS TO BE DETERMINED BY ENGINEERING. CONDUIT MAY EXTEND IN ANY DIRECTION AS REQUIRED BY THE CUSTOMER.
6. PRIMARY CONDUIT NUMBER, SIZE, LOCATION, AND DIRECTION TO BE SPECIFIED BY ENGINEERING. CONDUIT CAN BE FLEXIBLE, TYPE E8, OR SCHEDULE 40 PVC CONDUIT WITH 90 DEGREE, 48 INCH RADIUS BENDS.
7. BURIAL DEPTH FOR DIRECT BURIED CABLE OR CONDUIT IS DEFINED AS THE DISTANCE BETWEEN FINAL GRADE AND THE TOP OF THE CABLE OR CONDUIT. UNLESS OTHERWISE DESIGNATED BY ENGINEERING, DIRECT BURIED PRIMARY SUPPLY CABLES OR CONDUITS SHALL BE INSTALLED AT A BURIAL DEPTH OF NOT LESS THAN 4'-0" AND SECONDARY SUPPLY CABLES OR CONDUITS SHALL BE INSTALLED AT A BURIAL DEPTH OF NOT LESS THAN 8'-0". THESE INITIAL DEPTHS ARE TO ALLOW FOR CHANGES TO SURFACE CONDITIONS. LOCAL AGREEMENTS AND CODES MAY REQUIRE ADDITIONAL DEPTH. IF THERE ARE KNOWN, EXTENSIVE CHANGES TO THE FINAL GRADE SUCH THAT THESE DEPTHS ARE NOT MAINTAINED, CORRECTIVE ACTION SHALL BE TAKEN.
8. PIERS SHALL BE 12" MINIMUM DIAMETER, 8" DEEP WITH 4-#4 VERTICAL REBAR AND #3 TIES AT 12" ON CENTER (OC), AND PROVIDE A MINIMUM 3" COVER. THE #4 BEND BARS SHOULD BE 12" LONG IN THE HORIZONTAL DIRECTION.
9. PIER REBARS BENT IN THE HORIZONTAL DIRECTION SO THAT IT MAY TIE IN WITH PAD REBAR.

CONCRETE PAD AND PIERS FOR THREE PHASE PAD-MOUNTED TRANSFORMER
HIGH VOLUME CLAY OR SAND TYPE SOIL APPLICATIONS
75KVA - 2500KVA
25KVA AND BELOW

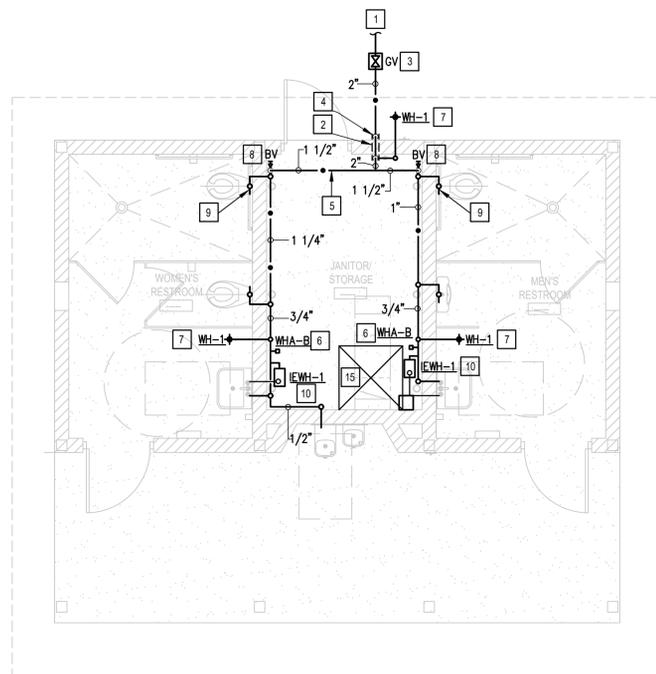


NOTE: ATTACH NAMEPLATES TO ALL ELECTRICAL GEAR AS NOTED ON SECTION 260553.

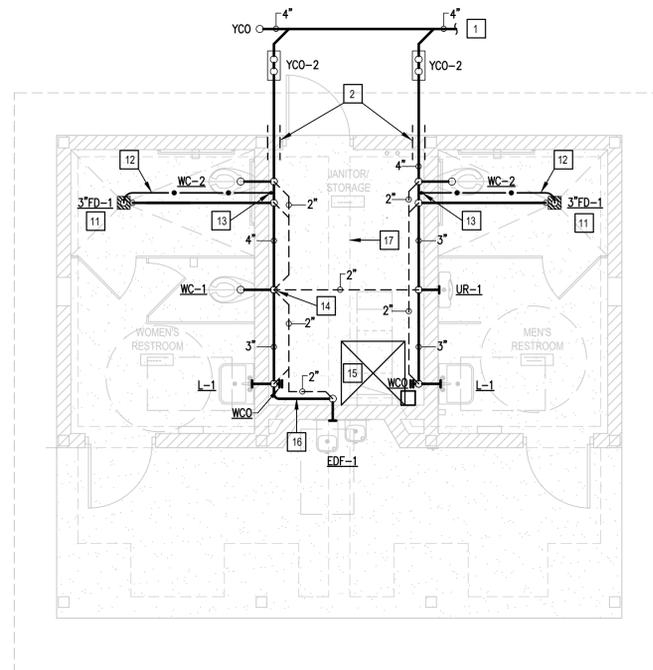
06 EQUIPMENT IDENTIFICATION LABEL DETAIL
SCALE : NOT TO SCALE



07 EMERGENCY LIGHTING CIRCUIT SWITCH BYPASS DETAIL
SCALE : NOT TO SCALE



01 PLUMBING PLAN
SCALE: 1/4" = 1'-0"



02 WASTE AND VENT PLAN
SCALE: 1/4" = 1'-0"



PLUMBING KEYED NOTES:

- 1 REFER TO MEP SITE PLAN FOR CONTINUATION.
- 2 SLEEVE ALL GRADE BEAMS, FLOOR SLABS AND MASONRY WALL PENETRATIONS PER DETAIL WHETHER SPECIFICALLY INDICATED ON PLANS OR NOT.
- 3 PROVIDE GATE VALVE IN QUAZITE BOX. SEE ASSOCIATED DETAIL ON DETAIL SHEET.
- 4 PROVIDE 1" CLOSED-CELL INSULATION WITH METAL JACKET ON EXPOSED PIPING. PENETRATE EXTERIOR WALL AS LOW AS POSSIBLE. TURN DOWN TO UNDERGROUND.
- 5 PROVIDE PIPING SUPPORT AS PER SPECS AND DETAIL. SEE ASSOCIATED DETAIL ON DETAIL SHEET - TYPICAL.
- 6 PROVIDE BELLOWS TYPE WATER HAMMER ARRESTOR (WHA), MIFAB (WHB SERIES) OR APPROVED EQUAL. INDICATED MODEL (A,B,C,D,E,F) AS PER MIFAB SIZING CHART. PROVIDE 12"X12" ACCESS PANEL WHERE INSTALLED IN AN INACCESSIBLE AREA. ACCESS PANEL EQUAL TO ACUDOR MODEL UF5000 WITH CYLINDER LOCK AND KEY AND PAINT TO MATCH THE WALL/CEILING. (TYPICAL)
- 7 PROVIDE WALL HYDRANT AS SCHEDULED. PROVIDE CLOSE COUPLED HYDRANT TO ENSURE PIPE TURNS UP INSIDE BLOCK WALL. COORDINATE WALL THICKNESS WITH WALL HYDRANT MANUFACTURER DATA - TYPICAL.
- 8 PROVIDE BRONZE ISOLATION BALL VALVE IN 2" COLD WATER RISER. PROVIDE VALVE IDENTIFICATION TAGS AS PER SPECIFICATIONS. (TYPICAL)
- 9 INSTALL WATER CLOSET FLUSH VALVE HANDLE TOWARDS WIDE SIDE OF THE ROOM. COORDINATE WITH GENERAL CONTRACTOR.
- 10 PROVIDE INSTANTANEOUS ELECTRIC WATER HEATER AS SCHEDULED. PROPERLY SECURE TO WALL AS REQUIRED. COORDINATE WITH GENERAL CONTRACTOR.
- 11 PROVIDE FLOOR DRAIN AS SCHEDULED. SET FLUSH WITH FINISHED FLOOR. SEE ASSOCIATED DETAIL ON DETAIL SHEET.
- 12 1/2" SOFT DRAWN COPPER FROM TRAP-PRIMER. ENCASE PIPING INSIDE WALL AND UNDER FLOOR SLAB IN POLYETHYLENE SLEEVE. "POLY-SLEEVE" OR EQUAL.
- 13 CONNECT TO WATER CLOSET (WC) FLUSH VALVE TRAP-PRIMER. SEE ASSOCIATED DETAIL ON DETAIL SHEET.
- 14 PROVIDE 4" VENT PIPING UP TO 4" VENT THRU ROOF (VTR).
- 15 CLEARANCE FOR ELECTRICAL PANELS. ROUTE NO PIPING OVER THIS AREA. REFER TO ELECTRICAL PLANS FOR EXACT LOCATION OF ELECTRICAL PANELS.
- 16 RUN 2" WASTE LINE ABOVE CONCRETE SLAB. PROPERLY SECURE TO WALL AND/OR FINISHED FLOOR AS REQUIRED.
- 17 STRUCTURAL FOUNDATION SHOWN FOR REFERENCE AND COORDINATION PURPOSES. REFER TO STRUCTURAL DRAWING FOR MORE DETAILS. DO NOT ROUTE PIPING INSIDE THE GRADE BEAMS.

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GENERAL NOTES:

- ALL PLUMBING WORK SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AS ADAPTED AND AMENDED BY THE INSPECTING AUTHORITIES.
- DRAWING IS DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.
- ALL PLUMBING WORK SHALL BE INSTALLED SO AS TO AVOID CONFLICT WITH THE WORK OF OTHER TRADES. COORDINATE WITH MECHANICAL, ELECTRICAL AND STRUCTURAL FOR PROPER CLEARANCES.
- REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASING AND SEQUENCE OF CONSTRUCTION WORK.
- COORDINATE WORK AMONG ALL DISCIPLINES. IT IS NOT THE INTENT OF THESE DOCUMENTS TO DICTATE WHO MUST DO THE WORK. ALL WORK SHOWN IS THE RESPONSIBILITY OF THE PRIME CONTRACTOR.
- SLEEVE ALL OUTSIDE WALLS, FOUNDATION GRADE BEAMS, INTERIOR WALL PENETRATIONS, AND FIRE SEAL ALL PENETRATION THROUGH FIRE WALLS AND FLOORS WHETHER SHOWN ON PLANS OR NOT.
- PROVIDE MINIMUM 10' OF SEPARATION BETWEEN HVAC INTAKES AND VENT THRU ROOFS.
- RECORD INVERT ELEVATIONS OF ALL YARD CLEAN OUT (YCO) ON "AS-BUILT" DRAWINGS.
- PROVIDE SHUT-OFF VALVES (STOPS) ON ALL ROUGH-INS TO FIXTURES AND EQUIPMENTS.
- PROVIDE WATER HAMMER ARRESTORS AS INDICATED ON THE DRAWINGS. AIR CHAMBERS NOT AN APPROVED SUBSTITUTE.
- PROVIDE ANY BACKFLOW PREVENTION DEVICE REQUIRED BY CODE OR LOCAL AUTHORITIES. CONTRACTOR SHALL VERIFY THIS WITH CITY AND LOCAL AGENCIES AND INCLUDE COST IN BID. CONTRACTOR TO HAVE BACK FLOWS CERTIFIED.
- REFER TO PLUMBING FIXTURE ROUGH-IN SCHEDULE FOR INDIVIDUAL PIPE CONNECTIONS TO FIXTURES.
- PRIOR TO POURING FOUNDATION AND ERECTING CMU WALLS, COORDINATE INSTALLATION OF PLUMBING FIXTURE CARRIERS WITH GENERAL CONTRACTOR.
- METAL STUDS AT DRY WALLS SHALL NOT BE CUT THRU HORIZONTAL DIRECTION. COORDINATE WITH DRY WALL CONTRACTOR.
- PAINT ALL PLUMBING PIPING EXPOSED TO VIEW AS PER SPECIFICATIONS. COORDINATE COLOR WITH ARCHITECT.

PLUMBING FIXTURE SCHEDULE

MARK	MANUFACTURER & MODEL NUMBER	DESCRIPTION	CONNECTIONS				NOTES	REMARKS
			WASTE	VENT	CW	HW		
WC-1	WILLOUGHBY ETF-1490-FM-TS SLOAN ROYAL #111-1.6	15" HIGH, FLOOR MOUNTED, LOW CONSUMPTION FLUSH VALVE, FABRICATED FROM 14 GAGE, TYPE 304 STAINLESS STEEL AND SEAMLESS WELDED CONSTRUCTION. VANDAL RESISTANT. WATER CLOSET WITH ELONGATED TOILET BOWL, INTEGRAL CONTOURED SEAT, CREVICE-FREE SELF-DRAINING FLUSHING RIM WITH FULLY ENCLOSED TRAP, MAINTAIN 2" SEAL AND PASS A 2-1/8" BALL. SIPHON JET ACTION BOWL, 1.6 GPF. MANUAL EXPOSED FLUSH VALVE, MOUNTING HARDWARE. FOR ADULT ADA MOUNTING.	4"	2"	1"	-	1,2,4,5	15" TO TOP OF SEAT
WC-2	WILLOUGHBY ETF-1490-FM-TS-HC SLOAN ROYAL #111-1.6	18" HIGH, FLOOR MOUNTED, LOW CONSUMPTION FLUSH VALVE, FABRICATED FROM 14 GAGE, TYPE 304 STAINLESS STEEL AND SEAMLESS WELDED CONSTRUCTION. VANDAL RESISTANT. WATER CLOSET WITH ELONGATED TOILET BOWL, INTEGRAL CONTOURED SEAT, CREVICE-FREE SELF-DRAINING FLUSHING RIM WITH FULLY ENCLOSED TRAP, MAINTAIN 2" SEAL AND PASS A 2-1/8" BALL. SIPHON JET ACTION BOWL, 1.6 GPF. MANUAL EXPOSED FLUSH VALVE, MOUNTING HARDWARE. FOR ADULT ADA MOUNTING.	4"	2"	1"	-	1,2,4,5	18" TO TOP OF SEAT
UR-1	WILLOUGHBY UW-1412-BJ-TS-WS SLOAN ROYAL #188-1.0 ZURN # Z1222 CARRIER	WALL MOUNTED URINAL, FABRICATED FROM 14 GAGE, TYPE 304 STAINLESS STEEL AND SEAMLESS WELDED CONSTRUCTION. LOW CONSUMPTION 1.0 GPF URINAL, 3/4" TOP SPOUT FLUSH VALVE AND CARRIER FOR ADULT ADA MOUNTING.	4"	2"	3/4"	-		20" TO TOP OF SEAT
L-1	WILLOUGHBY HS-1014-96-HC-DMS-PML1-PPB-PT-LWE-MT-WS	18" X 20" WALL MOUNTED LAVATORY, FABRICATED FROM 14 GAGE, TYPE 304 STAINLESS STEEL AND SEAMLESS WELDED CONSTRUCTION. VANDAL RESISTANT LAVATORY, DECK MOUNTED SPOUT, SINGLE TEMPERATURE PNEUMATIC METERING VALVE, LAV MOUNTED PUSHBUTTON, GRID STRAINER, CHROME PLATED SUPPLY STOPS WITH FLEXIBLE RISER, THRU-WALL EXTENSION WITH CONCEALED P-TRAP, WALL SLEEVE AND MOUNTING HARDWARE. FOR ADULT ADA MOUNTING.	2"	2"	1/2"	1/2"	3	34" FROM FLOOR TO RIM
WH-1	ZURN # Z1350 HYDRANT	ENCASED MODERATE CLIMATE WALL HYDRANT FOR NARROW WALL, CHROME, SCREWDRIVER OPERATED STOP VALVE IN SUPPLY, KEY OPERATED CONTROL VALVE, STAINLESS STEEL BOX WITH HINGED COVER.	-	-	3/4"	-		
FD-1	ZURN # ZN415B-P	BODY ASSEMBLY WITH TYPE B STRAINER, DURA COATED CAST IRON BODY WITH BOTTOM OUTLET INVERTED MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH TRAP PRIMER CONNECTION.	3"	2"	-	-		
EDF-1	ELKAY VRLTSC LKAPREZ, APRON ZURN Z-1225 CARRIER	BI-LEVEL ELECTRIC DRINKING FOUNTAIN, FRONT AND SIDE TOUCH CONTROLS, 8.0 GPH, FLEX GUARD SAFETY BUBBLERS, PVC P-TRAP, APRON AND CARRIER. FOR ADULT STANDARD & ADA MOUNTING. OUTDOOR RATED, VANDAL RESISTANT.	2"	2"	1/2"	-		SEE ARCHITECTURAL

- NOTES:
- INSTALL FLUSH VALVE ON THE WIDE SIDE OF STALL.
 - REFER TO PLUMBING PLAN FOR FIXTURES THAT WILL REQUIRE TRAP PRIMER CONNECTIONS. PROVIDE SLOAN VBF-72 OR APPROVED EQUAL.
 - PROVIDE REMOVABLE TRAP ENCLOSURE. COVER SHALL BE SECURED WITH SNAP-SLIP FLUSH REUSABLE FASTENERS. ANGLE STOPS SHALL HAVE LOCK-UP LOCKING ACCESS COVERS.
 - PROVIDE ADA APPROVED LEVERS & FLUSH VALVE HANDLES FOR ALL ADA PLUMBING FIXTURES.
 - MANUFACTURER AND MODEL NUMBER ARE "OR APPROVED EQUAL".

INSTANTANEOUS ELECTRIC WATER HEATER SCHEDULE

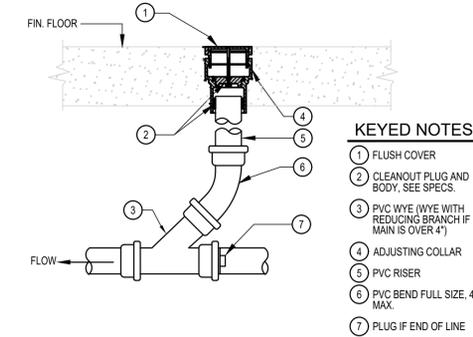
MARK	LOCATION	MINIMUM FLOW RATE GPM	DEGREE RISE AT FLOW RATE	ELECTRICAL V/PH	KW	DIMENSIONS LENGTH X WIDTH	MANUFACTURER MODEL NUMBER	NOTES
IEWH-1	SEE PLAN	0.8	36°	208/1	4.16	10.125" X 6.25"	CHRONOMITE M-20L208	1,2

- NOTES:
- MANUFACTURER & MODEL NUMBER ARE "OR APPROVED EQUAL".
 - SET TEMPERATURE AT 105 DEGREES.

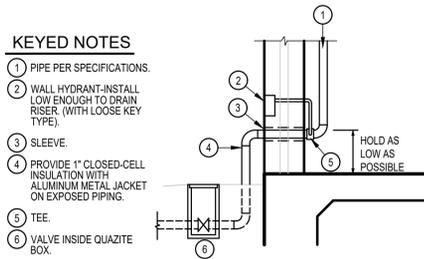
PLUMBING SYMBOLS LEGEND

	COLD WATER SUPPLY	WCO	WALL CLEANOUT
	HOT WATER SUPPLY		*GATE VALVE (GV)
	SOIL & WASTE LINE - ENLARGED PLANS		*BALL VALVE
	VENT LINE - ENLARGED PLANS		VALVE IN RISER TYPE AS NOTED
	ACID WASTE LINE - ENLARGED PLANS	WC	WATER CLOSET
	GREASE WASTE LINE - ENLARGED PLANS	UR	URINAL
	FIRE SPRINKLER LINE	L	LAVATORY
	FLOOR CLEANOUT	SK	SINK
	FLOOR CLEANOUT - 2 WAY	EDF	ELECTRIC DRINKING FOUNTAIN
	FLOOR DRAIN (FD) WITH DEEP SEAL TRAP	MSB	MOP SERVICE BASIN
	HUB DRAIN WITH DEEP SEAL TRAP	EESH	EMERGENCY EYE/SHOWER
	FLOOR SINK	TP	TRAP PRIMER
	YARD CLEANOUT	EWV	ELECTRIC WATER HEATER
	YARD CLEANOUT - 2 WAY	VTR	VENT THRU ROOF
	WALL HYDRANT	CO	CLEANOUT
	TRAP PRIMER	A.F.F.	ABOVE FINISH FLOOR
	*WATER HAMMER	ADT	ACID DILUTION TANK
		GT	GREASE TRAP

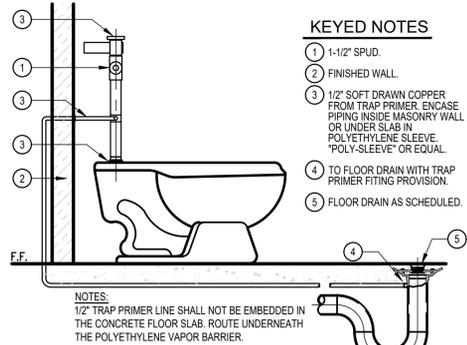
*PROVIDE 12"x12" ACCESS PANEL WHERE INSTALLED IN AN INACCESSIBLE AREA.



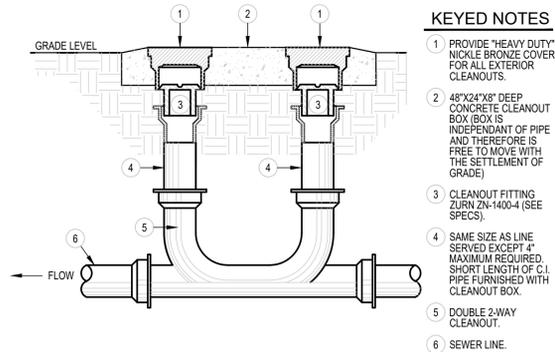
01 FLOOR CLEANOUT DETAIL
SCALE: NOT TO SCALE



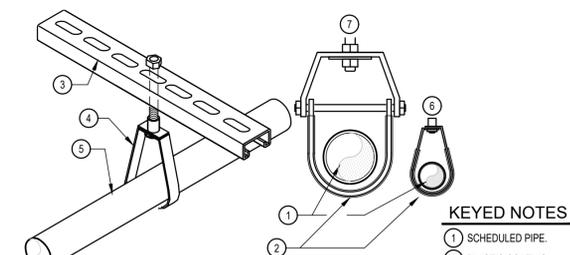
02 WATER ENTRANCE DETAIL
SCALE: NOT TO SCALE



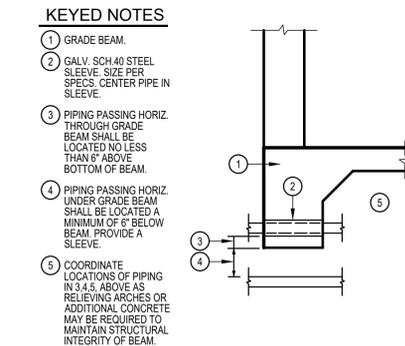
03 TRAP PRIMER DETAIL
SCALE: NOT TO SCALE



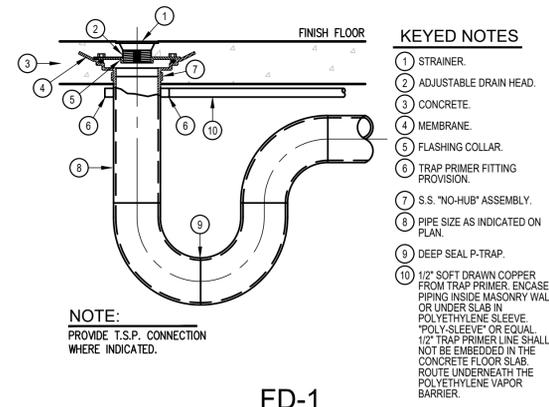
04 2-WAY YARD CLEANOUT DETAIL
SCALE: NOT TO SCALE



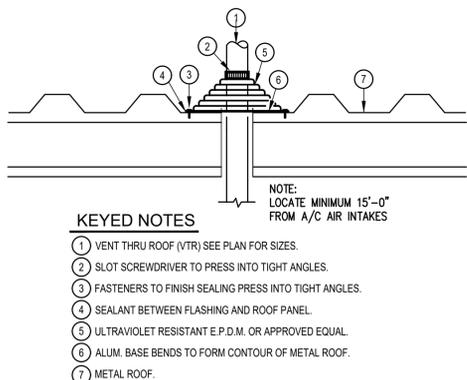
05 DOMESTIC WATER LINE PIPING SUPPORT DETAIL
SCALE: NOT TO SCALE



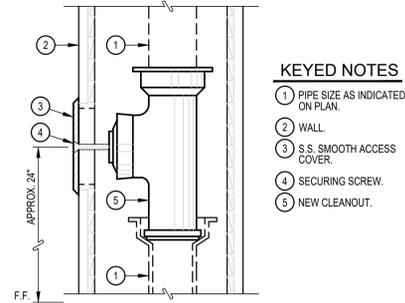
06 GRADE BEAM SLEEVE DETAIL
SCALE: NOT TO SCALE



07 FD-1 FLOOR DRAIN WITH TRAP PRIMER DETAIL
SCALE: NOT TO SCALE



08 VENT THRU ROOF DETAIL
SCALE: NOT TO SCALE



09 WALL CLEANOUT DETAIL
SCALE: NOT TO SCALE



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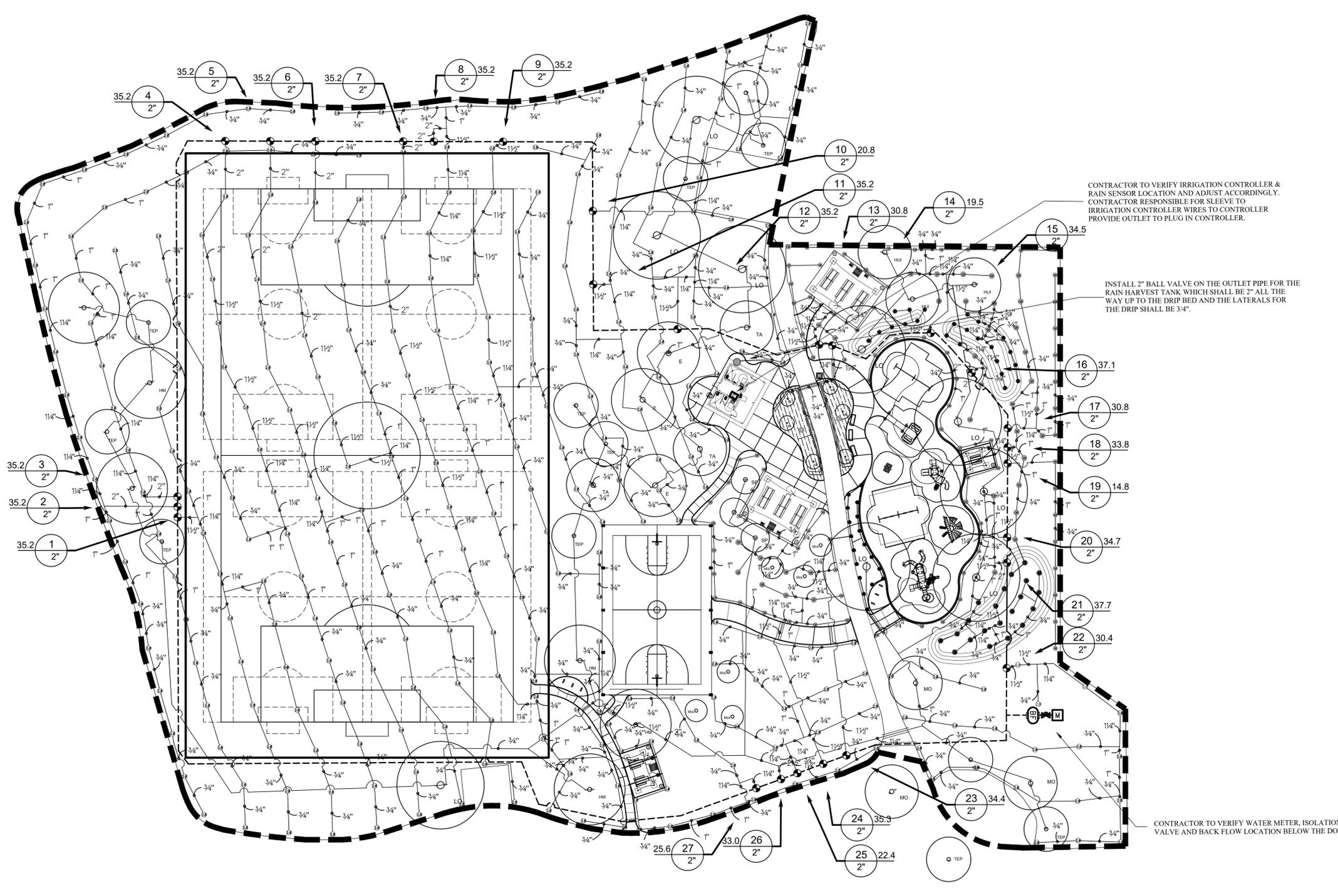
MERCEDES
SPORTSPARK 1
PHASE -
USA
MERCEDES, TEXAS

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CHECKED BY: CAG



P3.01



CONTRACTOR TO VERIFY IRRIGATION CONTROLLER & RAIN SENSOR LOCATION AND ADJUST ACCORDINGLY. CONTRACTOR RESPONSIBLE FOR SLEEVE TO IRRIGATION CONTROLLER WIRES TO CONTROLLER. PROVIDE OUTLET TO PLUG IN CONTROLLER.

INSTALL 2" BALL VALVE ON THE OUTLET PIPE FOR THE RAIN HARVEST TANK WHICH SHALL BE 2" ALL THE WAY UP TO THE DRIP BED AND THE LATERALS FOR THE DRIP SHALL BE 3/4".

CONTRACTOR TO VERIFY WATER METER, ISOLATION VALVE AND BACK FLOW LOCATION BELOW THE DOME.

NORTH
SCALE 1" = 30'



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MERCEDES
SPORTS PARK 1
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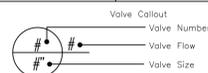
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CHECKED BY: SRG

IRRIGATION
PLAN

IR1

IRRIGATION SCHEDULE						
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI			DETAIL
	Hunter PROS-04-CV 8' radius Turf Spray, 4.0" Pop-Up, With Drain Check Valve, Co-molded wiper seal with UV Resistant Material.	23	30			
	Hunter PROS-04-CV 10' radius Turf Spray, 4.0" Pop-Up, With Drain Check Valve, Co-molded wiper seal with UV Resistant Material.	21	30			
	Hunter PROS-04-CV 15' radius Turf Spray, 4.0" Pop-Up, With Drain Check Valve, Co-molded wiper seal with UV Resistant Material.	36	30			
	Hunter PROS-04-CV ADJ Turf Spray, 4.0" Pop-Up, With Drain Check Valve, Co-molded wiper seal with UV Resistant Material.	101	30			
	Hunter AFB Adjustable Flow Bubbler, 1/2" FIPT, stainless steel screw adjustment.	69	30			
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	GPM	RADIUS	DETAIL
	Hunter I-20-04-LA Turf Rotor, 4.0" Pop-Up, Adjustable and Full Circle, Plastic Riser, Drain Check Valve, Low Angle Nozzle.	308	30	1.60	25'	
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	DETAIL			
	Area to Receive Dripline Rain Bird XFS-09-12 XFS Sub-Surface Pressure Compensating Dripline w/Copper Shield Technology, 0.9 GPH emitters at 12" O.C. Laterals spaced at 12" apart, with emitters offset for triangular pattern. UV Resistant. Specify XF insert fittings.	1,297 l.f.				
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	DETAIL			
	Hunter ICG-G 2" 1", 1-1/2", 2", and 3" Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	27				
	Shut Off Valve	1				
	Febco 765 2" Pressure Vacuum Breaker, brass with ball valve SOV, Install 12" (305MM) above highest downstream outlet and the highest point in the downstream piping.	1				
	Hunter ACC-99D 2-Wire Decoder Controller with 99 station capacity, metal cabinet.	1				
	Hunter WSS Wireless Solar, rain freeze sensor with outdoor interface, connects to Hunter PCC, Pro-C, and I-Core Controllers, install as noted. Includes 10 year lithium battery and rubber module cover, and gutter mount bracket.	1				
	Water Meter 2"	1				
	Irrigation Lateral Line: PVC Class 200 SDR 21 3/4"	460.1 l.f.				
	Irrigation Lateral Line: PVC Class 200 SDR 21 3/4"	7,934 l.f.				
	Irrigation Lateral Line: PVC Class 200 SDR 21 1"	1,732 l.f.				
	Irrigation Lateral Line: PVC Class 200 SDR 21 1 1/4"	1,412 l.f.				
	Irrigation Lateral Line: PVC Class 200 SDR 21 1 1/2"	980.4 l.f.				
	Irrigation Lateral Line: PVC Class 200 SDR 21 2"	562.7 l.f.				
	Irrigation Lateral Line: PVC Class 200 SDR 21 2 1/2"	7.6 l.f.				
	Irrigation Mainline: PVC Schedule 40 4"	1,653 l.f.				
	Pipe Sleeve: PVC Schedule 40 6"	125.1 l.f.				



VALVE SCHEDULE NUMBER	MODEL	SIZE	TYPE	GPM	PRECIP
1	Hunter ICG-G	2"	Turf Rotor	35.20	0.27 in/h
2	Hunter ICG-G	2"	Turf Rotor	35.20	0.51 in/h
3	Hunter ICG-G	2"	Turf Rotor	35.20	0.26 in/h
4	Hunter ICG-G	2"	Turf Rotor	35.20	0.25 in/h
5	Hunter ICG-G	2"	Turf Rotor	35.20	0.29 in/h
6	Hunter ICG-G	2"	Turf Rotor	35.20	0.28 in/h
7	Hunter ICG-G	2"	Turf Rotor	35.20	0.39 in/h
8	Hunter ICG-G	2"	Turf Rotor	35.20	0.48 in/h
9	Hunter ICG-G	2"	Turf Rotor	35.20	0.29 in/h
10	Hunter ICG-G	2"	Turf Rotor	20.80	0.66 in/h
11	Hunter ICG-G	2"	Turf Rotor	35.20	0.33 in/h
12	Hunter ICG-G	2"	Turf Rotor	35.20	0.56 in/h
13	Hunter ICG-G	2"	Turf Spray	34.30	1.07 in/h
14	Hunter ICG-G	2"	Area for Dripline	19.46	1.44 in/h
15	Hunter ICG-G	2"	Turf Spray	34.55	1.07 in/h
16	Hunter ICG-G	2"	Turf Spray	33.75	0.88 in/h
17	Hunter ICG-G	2"	Turf Spray	30.79	0.94 in/h
18	Hunter ICG-G	2"	Turf Spray	33.75	0.76 in/h
19	Hunter ICG-G	2"	Turf Spray	14.83	0.77 in/h
20	Hunter ICG-G	2"	Turf Spray	34.69	0.76 in/h
21	Hunter ICG-G	2"	Turf Spray	34.48	0.81 in/h
22	Hunter ICG-G	2"	Turf Rotor	30.40	0.54 in/h
23	Hunter ICG-G	2"	Turf Spray	35.28	1.09 in/h
24	Hunter ICG-G	2"	Turf Rotor	22.40	0.53 in/h
25	Hunter ICG-G	2"	Bubbler	32.00	1.83 in/h
26	Hunter ICG-G	2"	Turf Rotor	25.60	0.85 in/h
Unknown	Hunter ICG-G	2"	Turf Spray	34.38	1.01 in/h

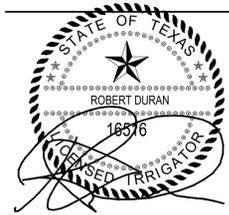
WATERING SCHEDULE NUMBER	MODEL	TYPE	PRECIP	IN./WEEK	MIN./WEEK	GAL./WEEK	GAL./DAY
1	Hunter ICG-G	Turf Rotor	0.27 in/h	1	220	7,744	1,936
2	Hunter ICG-G	Turf Rotor	0.51 in/h	1	118	4,154	1,038
3	Hunter ICG-G	Turf Rotor	0.26 in/h	1	235	8,272	2,068
4	Hunter ICG-G	Turf Rotor	0.25 in/h	1	236	8,307	2,077
5	Hunter ICG-G	Turf Rotor	0.29 in/h	1	207	7,286	1,822
6	Hunter ICG-G	Turf Rotor	0.28 in/h	1	215	7,568	1,892
7	Hunter ICG-G	Turf Rotor	0.39 in/h	1	154	5,421	1,355
8	Hunter ICG-G	Turf Rotor	0.48 in/h	1	125	4,400	1,100
9	Hunter ICG-G	Turf Rotor	0.29 in/h	1	211	7,427	1,857
10	Hunter ICG-G	Turf Rotor	0.66 in/h	1	92	1,914	478.4
11	Hunter ICG-G	Turf Rotor	0.33 in/h	1	182	6,406	1,602
12	Hunter ICG-G	Turf Rotor	0.56 in/h	1	107	3,766	941.6
13	Hunter ICG-G	Turf Spray	1.07 in/h	1	56	1,921	480.2
14	Hunter ICG-G	Area for Dripline	1.44 in/h	1	42	817.2	204.3
15	Hunter ICG-G	Turf Spray	1.07 in/h	1	56	1,935	483.7
16	Hunter ICG-G	Turf Spray	0.88 in/h	1	68	2,295	573.8
17	Hunter ICG-G	Turf Spray	0.94 in/h	1	65	2,001	500.3
18	Hunter ICG-G	Turf Spray	0.76 in/h	1	80	2,700	675
19	Hunter ICG-G	Turf Spray	0.77 in/h	1	79	1,172	292.9
20	Hunter ICG-G	Turf Spray	0.76 in/h	1	80	2,775	693.8
21	Hunter ICG-G	Turf Spray	0.81 in/h	1	75	2,586	646.5
22	Hunter ICG-G	Turf Rotor	0.54 in/h	1	112	3,405	851.2
23	Hunter ICG-G	Turf Spray	1.01 in/h	1	60	2,063	515.6
24	Hunter ICG-G	Turf Spray	1.09 in/h	1	55	1,940	485.1
25	Hunter ICG-G	Turf Rotor	0.53 in/h	1	114	2,554	638.4
26	Hunter ICG-G	Bubbler	1.83 in/h	1	33	1,056	264
27	Hunter ICG-G	Turf Rotor	0.85 in/h	1	71	1,818	454.4
TOTALS:					3,148	103,703	25,926

NOTES

- ALL IRRIGATION WORK TO BE PERFORMED BY A TEXAS LICENSED IRRIGATOR.
- INSTALL ALL VALVES IN AN ARMOR VALVE BOX WITH COVER OR EQUAL. VALVE SHOULD BE CENTERED IN BOX TO FACILITATE ACCESS TO SOLENOID ASSEMBLY AND MANUAL OPERATORS.
- PIPE AS SHOWN IS DIAGRAMMATIC BUT SHOULD BE REASONABLY FOLLOWED. LOCATION OF SPRINKLER HEADS SHALL BE ESTABLISHED BY THE CONTRACTOR BUT DESIGN SPACING MAY NOT BE EXCEEDED WITHOUT AUTHORIZATION FROM THE OWNER.
- ALLOW A MINIMUM OF 6" CLEARANCE FROM ANY STRUCTURE, INCLUDING SIDEWALKS, CURBS, BUILDINGS, ETC. WHEN INSTALLING SPRINKLER HEADS
- ALL SLEEVES SHALL BE SCH. 40 PVC, SHALL EXTEND 12" BEYOND EDGE OF PAVEMENT OR STRUCTURE, SHALL BE PLACED 24" BELOW TOP OF PAVEMENT AND SHALL BE CAPPED WITH PVC CAPS. DO NOT PENETRATE STRUCTURES WITHOUT PRIOR APPROVAL. LOCATION OF SLEEVES TO BE MARKED IN PAVEMENT WITH AN "S" CONCRETE STAMP.
- AFTER INSTALLATION, SYSTEM MUST BE BALANCED BY ADJUSTING PRESSURE REGULATOR CONTROLS ON VALVES.
- SYSTEM SHALL REQUIRE A MINIMUM OF 50 LBS. STATIC PRESSURE FOR SYSTEM TO OPERATE PROPERLY. IRRIGATION CONTRACTOR SHALL NOTIFY THE OWNER OF PRESSURE DEFICIENCIES OR IF THE PRIMARY WATER SUPPLY LINES ARE SMALLER THAN 4" AND/OR LONGER THAN 120' FROM THE SOURCE. NOTIFY THE OWNER OF ANY OTHER SITE PROBLEMS THAT MAY ALTER THE EFFECTIVENESS OF THE SYSTEM.
- THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SPECIFICATIONS FOR THE LANDSCAPE IRRIGATION SYSTEM.
- THE CONTRACTOR SHALL PREPARE "AS-BUILT" DRAWINGS IN AN AUTOCAD FORMAT WHICH SHALL SHOW LOCATIONS OF MAIN LINES, VALVES, CONTROLLERS AND SLEEVES. THE AUTOCAD DRAWINGS SHALL BE DELIVERED ON DISC TO THE OWNERS REPRESENTATIVE FOR REVIEW AND APPROVAL.
- ALL SPLICES ARE TO BE CAPPED WITH TAN KING LOW VOLTAGE CONNECTORS. NO FIELD SPLICES WILL BE PERMITTED. WHERE SPLICES ARE NECESSARY ALL MUST BE IN VALVE BOXES.
- NO PIPE CROSSES ARE PERMITTED.
- HAND DIG TRENCHES WITHIN THE DRIP LINE OF EXISTING TREES.
- ALL MAIN & LATERAL LINES SHALL BE SET AT A MINIMUM DEPTH OF 18" TO THE TOP OF THE PIPE. ALL LATERAL LINES SHALL BE SET AT A MINIMUM DEPTH OF 18" TO THE TOP OF THE PIPE. ALL ELECTRIC VALVES SHALL BE SET TO A DEPTH OF 18" TO THE TOP OF ADJACENT PIPE.
- ALL PIPING TO BE LAID WITH LETTERING UP.
- ALL 3/4" - 2" LATERAL PIPING SHALL BE CLASS 200 SOLVENT WELD PVC.
- PROVIDE THRUST BLOCKS AS PER DETAILS. ALL THRUST BLOCKING SHALL BE INSPECTED AND APPROVED BY THE OWNER PRIOR TO BACKFILL.
- ALL VALVE WIRING SHALL BE #14 UF.
- PROVIDE PRESSURE GAUGE ON INLET AND OUTLET.
- PROVIDE QUICK COUPLERS AS INDICATED.
- DO NOT LOCATE VALVE BOXES IN MULTI-USE ATHLETIC FIELD AREAS. ALL PIPES GOING TO AND FROM RP AND PUMP SHALL BE SCH. 80 PVC PIPE. WRAP PIPE WITH 1/8"x2" INSULATION. INSULATION SHALL BE CONSIDERED FOR APPROVAL IN ST. LOUIS, MO. 63146.
- ALL SPRINKLER HEADS SHALL BE SET LEVEL TO FINISH GRADES, PLACED VERTICAL IN THE GROUND, ADJUSTED TO COVER HEAD TO HEAD WITH MINIMAL SPRAY IN AREAS NOT IRRIGATED.
- TEN (10) DAYS PRIOR TO START OF CONSTRUCTION THE CONTRACTOR SHALL VERIFY THE WATER STATIC PRESSURE. CONFIRM WITH OWNER THE WATER STATIC PRESSURE BEFORE COMMENCING WORK.
- THE CONTRACTOR SHALL PROVIDE TWO QUICK COUPLER KEYS TO MATCH QUICK COUPLER SPECIFIED.
- THE CONTRACTOR SHALL OBTAIN THE PROPER PERMIT FOR IRRIGATION WORK FROM THE CITY OF MERCEDES PRIOR TO COMMENCING WORK.



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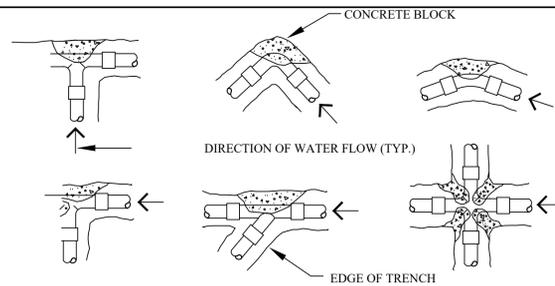
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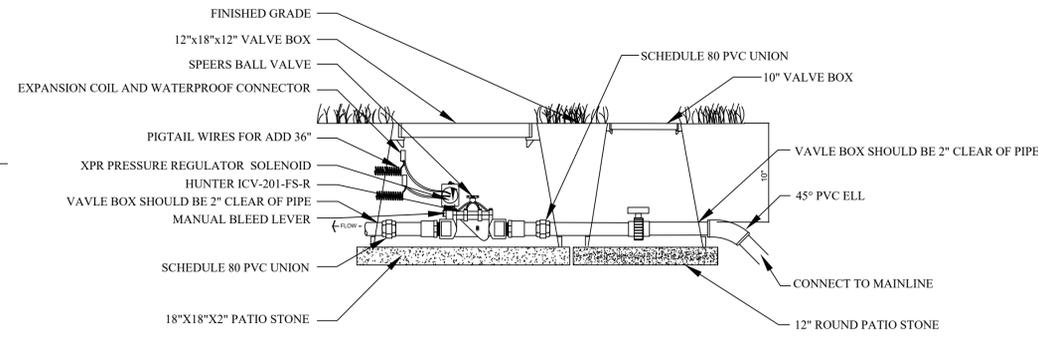
IRRIGATION SCHEDULE & NOTES

IR2



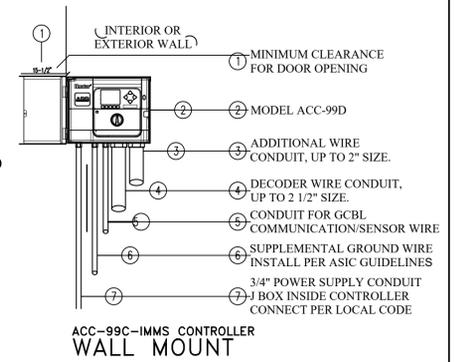
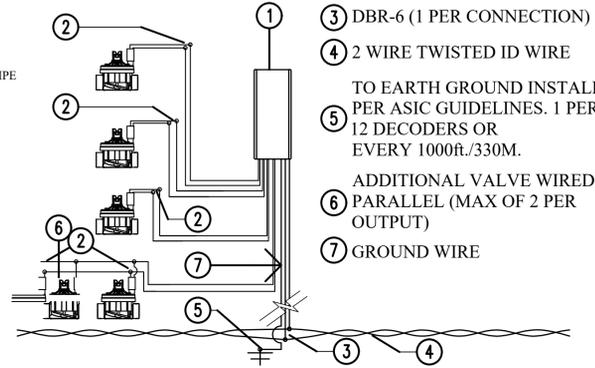
THRUST BLOCK REQUIREMENTS VS. FITTING TYPE					
	1 1/4"	2 1/2"	3"	4"	6"
TEES/ELLS	1.00	1.00	1.40	3.2	
90° BEND	1.00	1.25	2.00	4.5	
45° BEND	1.00	1.00	1.00	2.4	

- NOTES:
- THRUST BLOCKING TO BE PLACED AT ALL DEAD ENDS, TEES, BENDS, WYES AND REDUCERS AND ANY OTHER AREA AS DETERMINED BY THE ENGINEER ARCHITECT.
 - MINIMUM AREAS SHOWN ARE IN SQUARE FEET.
 - BEARING MUST BE ON UNDISTURBED EARTH.
 - THRUST BLOCK SHALL BEAR ON FULL 180° OF PIPE CIRCUMFERENCE.
 - USE A MINIMUM OF ONE (1) CU. FT OF 3000 PSI CONCRETE.

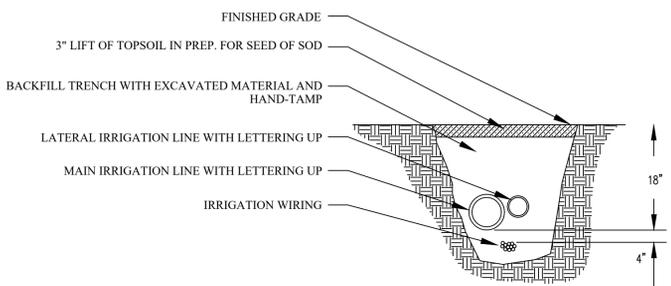


- NOTES:
- MAINTAIN A 2"-3" GAP BETWEEN THE BOTTOM OF THE VALVE AND THE TOP OF THE PATIO STONE.
 - PROVIDE 36" OF SLACK FOR CONTROL WIRES AND NEATLY COIL.
 - PROVIDE ONE EXTRA 14 GA. RED WIRE AT EACH VALVE FOR FUTURE USE.

NOTE: ALL ICD 400 DECODERS SHALL HAVE THE FOLLOWING ADDRESS AND CORRESPONDING COLOR
 ADDRESS 1 = Black
 ADDRESS 2 = Yellow
 ADDRESS 3 = Green
 ADDRESS 4 = White

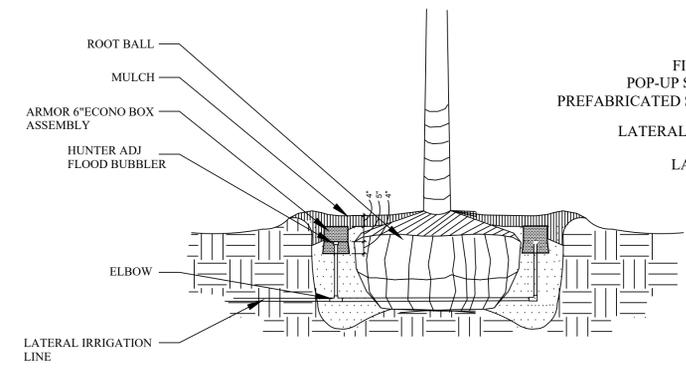


A THRUST BLOCKS



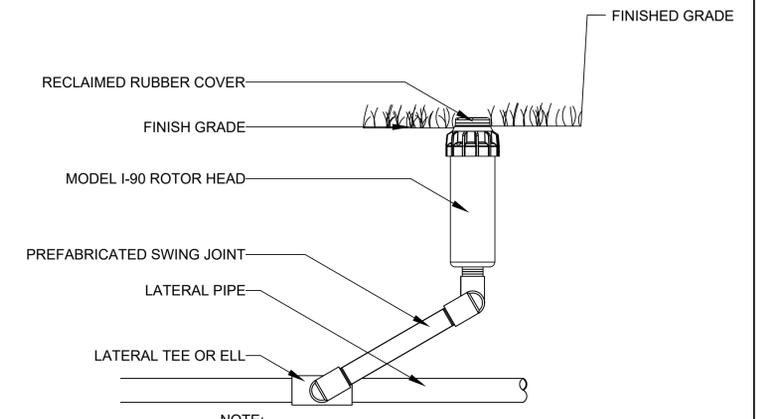
- NOTE:
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE FINISHED GRADE IS FLUSH.
 - CONTRACTOR IS TO ENSURE ALL PIPING IS TO BE LAID WITH LETTERING UP.

B HUNTER ICV-201-FS-R

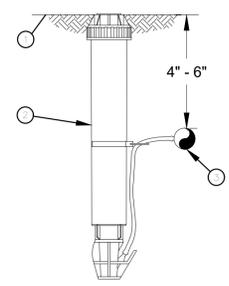


C HUNTER ACC-99D-IMMS

D ACC-99D CONTROLLER



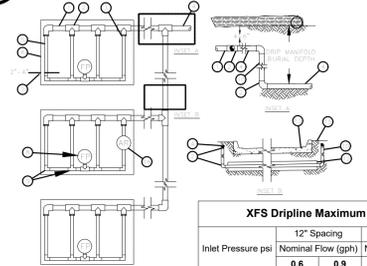
E IRRIGATION MAINLINE, LATERAL LINE, AND WIRES



- NOTE:
- INSERT BARB TRANSFER FITTING DIRECTLY INTO DRIPLINE TUBING.
 - VAN NOZZLE MAY BE SET TO CLOSED, OR IF IT IS DESIRED TO SEE SPRAY FROM THE NOZZLE, SET THE ARC TO 1/4 PATTERN. THE FLOW FROM THE NOZZLE, 0.3 GPM, SHOULD BE ACCOUNTED FOR IN THE SYSTEM DESIGN.

I XFS SUB-SURFACE DRIPLINE OPERATION INDICATOR

F HUNTER ADJ FLOOD BUBBLER



Inlet Pressure psi	12" Spacing		18" Spacing		24" Spacing	
	Nominal Flow (gph)					
15	273	155	314	250	424	322
20	318	169	353	294	508	368
30	360	230	413	350	586	414
40	395	255	465	402	652	474
50	417	285	528	420	720	488
60	460	290	596	455	780	514

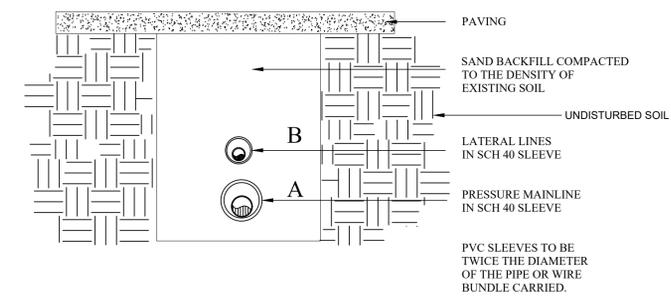
- NOTES:
- DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE INSTALLATION SPECIFICATIONS ON RAIN BIRD WEB SITE (WWW.RAINBIRD.COM) FOR SUGGESTED SPACING.
 - LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING SHOWN IN THE ACCOMPANYING TABLE.
 - INSTALL AIR RELIEF VALVE AT HIGH POINTS IN DRIP LATERAL.
 - WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.
 - DRIPLINE SHALL BE PLACED UNDER LANDSCAPE FABRIC IN LANDSCAPE BEDS WITH DECOMPOSED GRANITE.

J XFS SUB-SURFACE DRIPLINE

G HUNTER TURF SPRAYS

- PVC SUPPLY HEADER
- PVC SCH 40 TEE OR EL (TYPICAL)
- BARB X MALE FITTING: RAIN BIRD XFF-MA FITTING (TYPICAL)
- PVC DRIP MANIFOLD FROM RAIN BIRD CONTROL ZONE VALVE KIT (SIZED TO MEET LATERAL FLOW DEMAND)
- SUB-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE (TYPICAL) POTABLE: XFS DRIPLINE NON-POTABLE: XFSP DRIPLINE
- PERIMETER OF AREA
- PERIMETER DRIPLINE PIPE TO BE INSTALLED 2"-4" FROM PERIMETER OF AREA
- FLUSH POINT (TYPICAL) - SEE RAIN BIRD XFS DETAILS FOR FLUSH POINT INSTALLATION
- BARB X BARB INSERT TEE OR EL: RAIN BIRD XFF-TEE OR RAIN BIRD XFF-ELBOW (TYPICAL)
- PVC RISER PIPE
- PVC SUPPLY MANIFOLD
- PVC SCH 40 SLEEVE PIPE SIZED TWICE THE SIZE OF MANIFOLD PIPE SIZE
- PAVEMENT AND CURB
- TURF OR MULCH
- FINISH GRADE
- 1/2" AIR RELIEF VALVE: RAIN BIRD MODEL: ARV050 SEE RAIN BIRD XFS DETAILS FOR AIR RELIEF INSTALLATION

H HUNTER TURF ROTORS



DIMENSION	A	B
1/2" TO 6" IN SIZE	36"	24"

K SLEEVE INSTALLATION



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JOB #: 2017-019
 PHASE: 100% C.D.
 DATE: 11.28.2018
 DRAWN BY: SRG
 CHECKED BY: SRG

IRRIGATION DETAILS

IR3