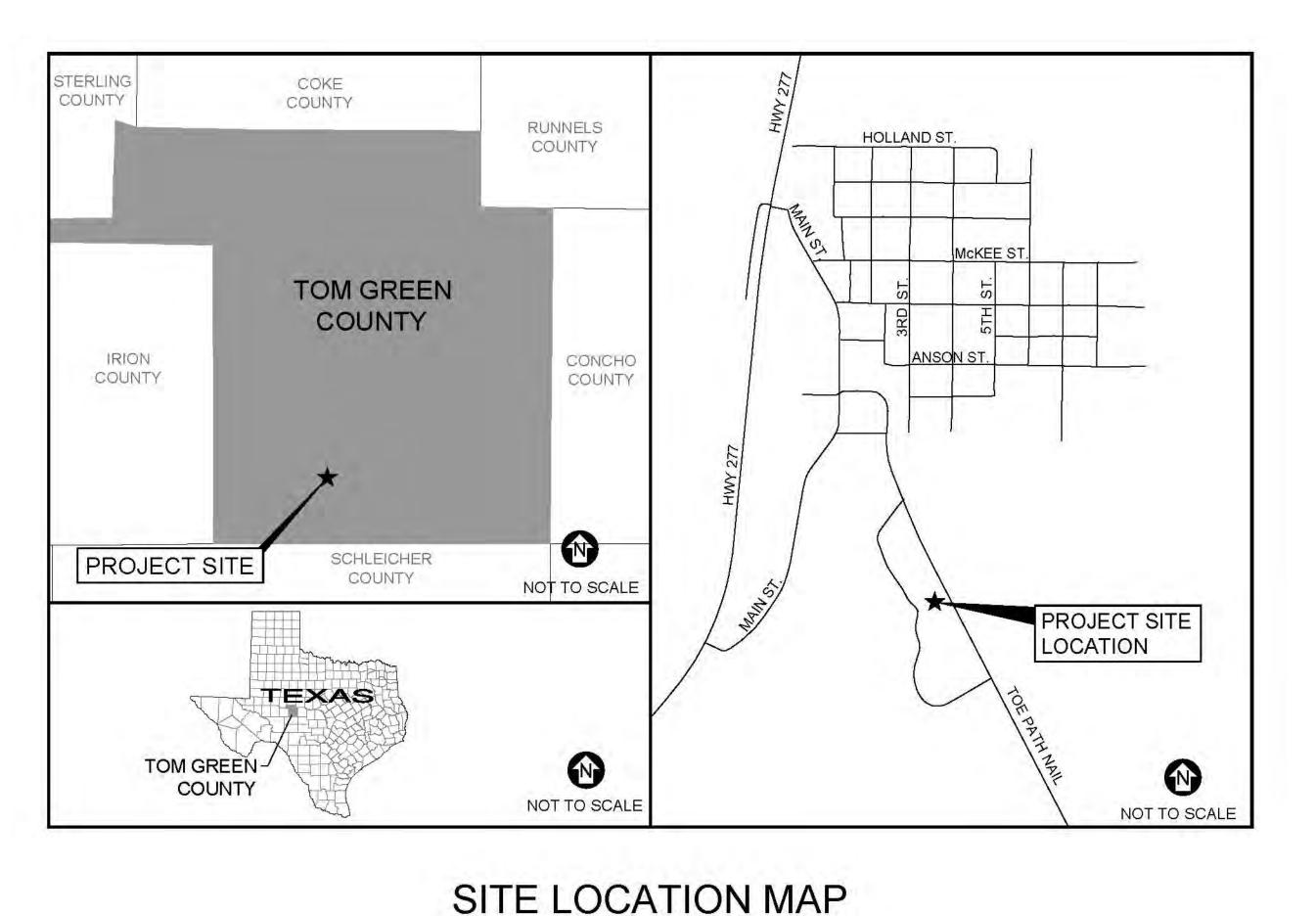
TOM GREEN COUNTY CHRISTOVAL, TEXAS PUGH PARK IMPROVEMENTS AUGUST 21, 2020



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Thomas Fanby HOMAS J. FROMBERGEN 105564 8/21/20



31° 11' 02.42" N 100° 29' 43.01" W

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MRB group

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MRB GROUP PROJECT # 2054.19002

GENERAL CIVIL NOTES:

- 1. ALL IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE MOST RECENT STANDARDS AND SPECIFICATIONS OF TOM GREEN COUNTY
- 2. THE CONTRACTOR SHALL PROVIDE SURVEY STAKEOUT FOR THE PROPOSED IMPROVEMENTS.
- 3. THE CONTRACTOR SHALL PROVIDE PUMPS, WELL POINTS OR OTHER METHODS OF DEWATERING EXCAVATIONS SO FIRM BEDDING AND FOUNDATION CONDITIONS CAN BE MAINTAINED.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TESTING SERVICES FOR MATERIALS, BACKFILL COMPACTION, AND DISINFECTION.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL EXISTING SHRUBS AND TREES. ANY SHRUBS OR TREES THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED IN KIND OR AS NOTED ON PLANS
- 6. UNDERGROUND UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL BEAR THE RESPONSIBILITY OF VERIFYING UTILITY LOCATION AND SIZES. THE CONTRACTOR SHALL CALL TEXAS 811 PRIOR TO COMMENCING WORK TO HAVE UTILITIES STAKED IN THE FIELD.
- 7. THE CONTRACTOR SHALL PERFORM THE WORK IN SUCH A MANNER THAT THE SAFETY OF THE WORKERS IS REASONABLY ASSURED. THIS SHALL INCLUDE PROVISIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).
- 8. ELECTRIC SERVICES TO BE INSTALLED UNDERGROUND.
- 9. THE CONTRACTOR SHALL SUPPORT GAS MAINS AND SERVICES EXPOSED BY THEIR EXCAVATION. SUPPORT SYSTEMS SHALL BE AS RECOMMENDED BY THE RESPECTIVE UTILITY OWNERS.
- 10. THE CONTRACTOR SHALL REQUEST TEMPORARY POLE SUPPORT SERVICES PROVIDED BY THE UTILITY OWNERS AT ANY POLE THAT MAY BE UNDERCUT BY TRENCH OPERATIONS. THE CONTRACTOR SHALL PROVIDE THE UTILITY COMPANY(S) WITH A MINIMUM OF THREE (3) WORKING DAYS NOTICE OF THE NEED FOR POLE SUPPORT.
- 11. PAVEMENT MARKINGS, TRAFFIC SIGNALS AND/OR SIGNS THAT HAVE BEEN DISTURBED BY THE CONSTRUCTION OPERATIONS SHALL BE RESTORED IN A MANNER CONFORMING TO TXDOT SPECIFICATIONS
- 12. EROSION CONTROL MEASURES TO BE ESTABLISHED AND MAINTAINED BY THE CONTRACTOR AT LOCATIONS DETERMINED BY THE OWNER OR ENGINEER.
- 13. ALL PAVEMENT CUTS SHALL BE MADE BY A PAVEMENT SAW TO NEAREST JOINT. SAW CUTS SHALL BE PERPENDICULAR TO THE LENGTH OF DRIVEWAY, SAW CUTTING SHALL BE REQUIRED PRIOR TO ALL WATER WORK.
- 14. CONTRACTOR WILL PROTECT AND MAINTAIN AT ALL TIMES DRAINAGE SWALES, PIPES, TILES, ETC., PROTECT AND MAINTAIN AT ALL TIMES ALL SEPTIC SYSTEMS/LEACH FIELDS ALSO PROTECT AND PRESERVE ALL PROPERTY CORNERS MONUMENTS MARKERS FTC. ANY GUIDE RAILING DAMAGED OR DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED IN KIND.
- 15. COMPACTED STONE SHALL BE 95% OF MAXIMUM DRY DENSITY IN ACCORDANCE THE MODIFIED PROCTOR TEST (ASTM D1557)
- 16. CONTRACTOR SHALL COMPLETE FINAL GRADING OR STABILIZATION, TOPSOILING AND SEEDING WITHIN TWO (2) WEEKS OF WATER MAIN INSTALLATION. AT NO TIME SHALL THE INSTALLATION PROCESS BE GREATER THAN 5000' AHEAD OF THE FINAL RESTORATION. ALL DISTURBED AREAS WITHIN THE STATE OR COUNTY ROW SHALL BE TOPSOILED. SEEDED AND MULCHED PRIOR TO CLOSE OF BUSINESS EVERY FRIDAY. IN CASE OF INCLEMENT WEATHER. THE AREA SHALL BE RESTORED BEFORE ANY FURTHER EXCAVATION TAKES PLACE ON THE NEXT BUSINESS DAY.
- 17. CONTRACTOR SHALL SAFEGUARD AND PRESERVE ALL RIGHT-OF-WAY MONUMENTS AND PROPERTY CORNERS ALONG THE PROJECT ROUTE ALL PROPERTY CORNERS THAT ARE DISTURBED BY THE CONTRACTOR DURING CONSTRUCTION ARE TO BE REPLACED AND CERTIFIED BY A TEXAS LICENSED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- 18. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL OR BETTER CONDITION, ANY DAMAGES DONE TO EXISTING FENCES, STREETS, DRIVEWAYS, LANDSCAPING AND STRUCTURES, AND ANY EXITING UTILITIES. COSTS OF RESTORATIONS, IF ANY, SHALL BE THE CONTRACTORS ENTIRE EXPANSE.
- 19. ANY TREE CLEARING SHALL BE CONSIDERED INCIDENTAL TO PROJECT INCLUDE IN CONTRACTOR'S BID PRICE
- 20. TOM GREEN COUNTY TO PERFORM SITE GRADING FOR BASEBALL AND SOFTBALL FIELDS, PARKING AREAS, AND ROAD RELOCATION.
- 21. GENERAL CONTRACTOR TO PERFORM FINISH GRADING OF BASEBALL FIELD AND SOFTBALL FIELD AS REQUIRED.

EROSION CONTROL NOTES

- 1. ALL SWALES AND SEDIMENTATION TRAPS MUST BE CLEANED AND MAINTAINED AT ALL TIMES BY CONTRACTOR TO ALLOW ADEQUATE DRAINAGE.
- CONTRACTOR MUST PROTECT AT ALL TIMES ADJACENT PROPERTIES AND ROADWAYS FROM SEDIMENTATION, EROSION, RUNOFF, DEBRIS AND/OR ANY OTHER EFFECTS FROM THE SITE CONSTRUCTION.
- 3. UPON INSTALLATION OF DRAINAGE CULVERTS CONTRACTOR MUST MAINTAIN AND PERIODICALLY FLUSH THOSE CULVERTS TO ALLOW DRAINAGE FLOWS.
- 4. CONTRACTOR(S) MUST TAKE ALL PRECAUTIONS AS NECESSARY AND/OR AS ORDERED BY ENGINEER FOR DUST CONTROL AND FLYING DEBRIS PROTECTION. (ie. WATER, FENCE, MATTING, COVERS, ETC.)
- 5. DURING CONSTRUCTION, BEFORE SUFFICIENT SEEDING COVER IS ESTABLISHED ON STEEPER SLOPES, CONTRACTOR MAY BE REQUIRED TO PLACE MATTING, BLANKETS, OR OTHER MEASURES TO PROTECT SLOPES AGAINST EROSION AS NECESSARY AND/OR AS ORDERED BY THE ENGINEER
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR FULL COMPLIANCE WITH THE LOCAL STORMWATER REQUIREMENTS. 7. ALL EROSION CONTROL MEASURES WITHIN TEXAS HIGHWAY BOUNDARY SHALL CONFORM TO
- TXDOT STANDARD SPECIFICATION
- 8. ALL EROSION CONTROL MEASURES SHALL BE ROUTINELY CHECKED, CLEANED AND REPAIRED, PARTICULARLY AFTER STORM EVENTS.
- 9. SILT FENCE SHALL BE ERECTED AT THE LIMITS OF ALL DISTURBED AREAS WHERE, IN THE JUDGEMENT OF THE ENGINEER. THERE IS THE POTENTIAL FOR FILTRATION OF STREAMS, STORM SEWERS, WETLANDS OR NEIGHBORING PROPERTIES, REGARDLESS OF WHETHER THE SILT FENCE IS INDICATED ON THE DRAWINGS.

CONSTRUCTION SEQUENCE:

- 1. INSTALL ALL EROSION CONTROL DEVICES AS NESSASRY, PRIOR TO EARTHWORK CONSTRUCTION. BASED ON FIELD PERFORMANCE AND WEATHER CONDITIONS, ADDITIONAL EROSION CONTROL DEVICES MAY BE REQUIRED. DISTURBANCE TO THE SITE TO BE LIMITED
- 2. CONTRACTOR SHALL RESTRICT GRADING OPERATIONS TO THE AREAS INDICATED ON THE CONTRACT DRAWINGS, PERFORMING WORK OUTSIDE THE IDENTIFIED LIMITS SHALL NOT BE PERMITTED WITHOUT APPROVAL OF THE ENGINEER.
- 3. PROTECT EXISTING VEGETATION AND OTHER ENVIRONMENTAL FEATURES TO BE PRESERVED WITH CONSTRUCTION BARRIERS.
- 4. CONSTRUCTION OF SITE IMPROVEMENTS MAY BEGIN AT THIS TIME. A MAXIMUM OF 5 ACRES OF DISTURBED SOIL IS PERMITTED AT ANY ONE TIME PRIOR TO STABILIZATION
- RESTORE EROSION CONTROL MEASURES AS NEEDED FOLLOWING THE UTILITY INSTALLATION. CONTINUE TO MAINTAIN AND REPAIR TEMPORARY EROSION CONTROL DEVICES THROUGHOUT CONSTRUCTION AS NEEDED.
- 6. COMPLETE FINAL GRADING OF SITE. AREAS TO REMAIN UNDISTURBED FOR GREATER THAN 14 DAYS WILL BE SEEDED/MULCHED. REAPPLY TOPSOIL, INSTALL PERMANENT SEEDING, FERTILIZER AND MULCH
- 7. ALL TEMPORARY EROSION CONTROL DEVICES SHALL BE MAINTAINED BY THE CONTRACTOR.
- 8. EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL AN APPROVED PERMANENT COVER OF VEGETATION IS ESTABLISHED. REMOVAL OF DEVICES TO BE COORDINATED WITH THE OWNER, LOCAL MUNICIPALITY OR REPRESENTATIVE THEREOF

GENERAL CONSTRUCTION NOTES: GENERAL BIDDING NOTES

- 1. ALL WORK TO BE IN STRICT CONFORMANCE WITH TEXAS STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, NEC, OSHA, NAPHCC, ANSI, NFPA & LOCAL GOVERNING MUNICIPAL AGENCIES AS WELL AS ANY AND ALL BUILDING RULES.
- 2. THE CONTRACTOR SHALL PERFORM THE WORK IN SUCH A MANNER THAT THE SAFETY OF THE WORKERS IS REASONABLY ASSURED. THIS SHALL INCLUDE PROVISIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).
- THE CONTRACTOR SHALL COMPLY WITH ALL CONTRACTUAL REQUIREMENTS; BE 3. RESPONSIBLE FOR CONTROL OF CONSTRUCTION LOCATIONS, ELEVATIONS, DIMENSIONS, AND QUANTITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, AND FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK; CONTRACTOR WILL BE RESPONSIBLE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 5. COORDINATE ARCHITECTURAL DRAWINGS WITH STRUCTURAL DRAWINGS. ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE WHERE DRAWINGS CONFLICT. FAILURE TO INCORPORATE OR BUILD TO ARCHITECTURAL DETAILS EVEN IF NOT INDICATED ON STRUCTURAL DRAWINGS DOES NOT OBVIATE CONTRACTORS RESPONSIBILITY. NOTIFY ARCHITECT IMMEDIATELY IF DISCREPANCY IS FOUND.
- 6. CONTRACTOR TO CONTACT ARCHITECT IF CONDITIONS OTHER THAN THOSE REPRESENTED ON THE DRAWINGS ARE ENCOUNTERED.
- 7. EXISTING STRUCTURES, EQUIPMENT, AND PIPING ADJACENT TO PROPOSED CONSTRUCTION OR IMPROVEMENTS SHALL BE ADEQUATELY SUPPORTED AND PROTECTED DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY NEW OR EXISTING STRUCTURES, PIPING, EQUIPMENT, ETC. THAT IS DAMAGED DURING CONSTRUCTION.
- THE GENERAL CONTRACTOR TO PROVIDE TEMPORARY HEAT, VENTILATION, POWER AND LIGHTING THROUGHOUT COURSE OF JOB WHERE REQUIRED.
- THE CONTRACTOR SHALL NOT DISTURB ANY AREAS BEYOND THOSE SHOWN ON THE DRAWINGS AND SHALL LIMIT THE EXTENT OF DISTURBANCE FOR EACH AREA OF CONSTRUCTION AS MUCH AS POSSIBLE. THE CONTRACTOR SHALL UTILIZE EVERY EFFORT TO MINIMIZE DISTURBANCE TO THE SURROUNDING AREA.
- 10. PRIOR TO COMPLETION OF ALL WORK, CLEAN PREMISES FOR OCCUPANCY. WORK AREA SHALL BE MAINTAINED IN ORGANIZED & BROOM CLEAN CONDITION AT ALL TIMES.
- 11. SPRINKLER & FIRE DETECTION MODIFICATIONS SHALL BE PERFORMED STRICTLY ACCORDING TO CODE. CONTRACTOR SHALL PROVIDE ANY/ALL NECESSARY DESIGN INFORMATION, CALCULATIONS & DRAWINGS AS NECESSARY FOR MUNICIPAL APPROVAL & CODE COMPLIANT INSTALLATION. THESE CONTRACTOR PROVIDED DRAWINGS SHALL BY STAMPED BY LICENSED ENGINEER AS REQUIRED BY MUNICIPALITY.
- 12. ENSURE ALL INSULATION, FENESTRATION, & ENVELOPE REQUIREMENTS MEET CURRENT CODE, INCLUDING CODE SUPPLEMENTS ADOPTED BY TEXAS STATE AND LOCAL MUNICIPALITIES.
- 13. ALL REFERENCES TO "THE CONTRACTOR" IN THESE CONTRACT DOCUMENTS REFER TO THE GENERAL CONTRACTOR (GC) UNLESS NOTED OTHERWISE.
- 14. ALL LOUVERS ARE TO BE PROVIDED BY MEP CONTRACTORS AND TO BE INSTALLED AND SEALED BY THE GC.

SPECIFICATIONS FOR BASEBALL SOFTBALL FIELD INSTALLATION

- 1. ALL INFIELD AND DIRT AREAS OF THE FIELDS MUST MEET ASTM F2107 AS PUBLISHED ON 04/01/2020. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CERTIFIED ANALYSIS OF THE MATERIAL SHOWING THAT THE MATERIAL MEETS THE SPECIFICATIONS DETAILED IN ASTM F2107. NSTALLATION SHALL BE DONE IN CONFORMANCE WITH ASTM F2107.
- 2. GRASS AREAS SHALL BE INSTALLED WITH TIFWAY 419 OR APPROVED ALTERNATIVE. CONTRACTOR SHALL PROVIDE WHETHER TURF OR SEED WILL BE USED AND THE SUPPLIER OF THE MATERIAL. CONTRACTOR SHALL PROVIDE OPERATIONS AND MAINTENANCE MANUAL FOR TURF MAINTENANCE COVERING THE FOLLOWING:
- CONTROL OF WEEDS. PESTS AND DISEASE
- AFRATION SCHEDULE IRRIGATION SCHEDULE
- FERTILIZATION SCHEDULE AND FERTILIZER MIX TO USE
- 3. CONTRACTOR SHALL PROVIDE THE FOLLOWING MATERIALS FOR THE BASEBALL FIELD:
- PITCHERS PROTECTION SCREEN (1) • FIRST BASE SCREEN (1)
- SECOND BASE AND SHAGGER SCREEN (1)
- PORTABLE BATTING CAGES (1) BATTING TUNNELS (CAGES) (2
- PROTECTIVE COVERING ALONG THE TOP OF BASE AND OUTFIELD FENCES • PITCHING RUBBER WITH 3" CORE AND MINIMUM OF 30 POUNDS OF RUBBER AND ANCHOR
- MATERIALS
- HOME PLATE WITH A MINIMUM OF 3" OF RUBBER • BASES SHALL BE ONE PIECE MOLDED RUBBER WITH STEEL ANCHORS AND BASE PLUGS
- 4. CONTRACTOR SHALL PROVIDE THE FOLLOWING MATERIALS FOR THE SOFTBALL FIELD:
- PITCHERS PROTECTION SCREEN (1) FIRST BASE SCREEN (1)
- SECOND BASE AND SHAGGER SCREEN (1)
- PORTABLE BATTING CAGES (1) BATTING TUNNELS (CAGES) (2)
- PROTECTIVE COVERING ALONG THE TOP OF BASE AND OUTFIELD FENCES PITCHING RUBBER WITH 3" CORE AND MINIMUM OF 30 POUNDS OF RUBBER AND ANCHOR MATERIALS
- HOME PLATE WITH A MINIMUM OF 3" OF RUBBER BASES SHALL BE ONE PIECE MOLDED RUBBER WITH STEEL ANCHORS AND BASE PLUGS
- ADDITIVE ALTERNATE: CONTRACTOR SHALL PROVIDE THE FOLLOWING MAINTENANCE EQUIPMENT:
- BATTERS BOX, BASELINE CHALKER (2) BASE HOLE COVERS (6)
- BATTERS BOX AND CATCHERS BOX OUTLINE FRAMES (2)
- DRAGS (2) EDGE CUTTER (2)
- LINE MARKER (2)
- MOUND MATS (6) HITTING MATS (6)
- RAKES INCLUDING SMOOTHING BOARD RAKE (2); GARDEN RAKE (METAL); PLASTIC LEAF RAKE (2)
- TRANSFER SHOVELS (4) • HAND TAMP (6"X8") WITH METAL OR FIBERGLASS HANDLES (2)
- ROLLING HAND COMPACTOR (1)
- 54" 25 HP RIDING LAWN MOWER WITH THE FOLLOWING ATTACHMENTS: •• AERATOR
- FERTILIZER SPREADER
- •• UTILITY CART •• STEEL ROLLER

1. ATTENTION ALL USERS OF THESE DRAWINGS, GENERAL CONTRACTORS, SUB-CONTRACTORS, MANUFACTURERS, SUPPLIERS: CAREFULLY AND THOROUGHLY REVIEW THESE GENERAL NOTES. IT IS YOUR RESPONSIBILITY TO KNOW AND ADHERE TO THESE REQUIREMENTS.

2. THE DRAWINGS AND SPECIFICATIONS ARE SEPARATED INTO DISCIPLINES FOR THE CONVENIENCE OF THE ARCHITECT AND THE CONTRACTOR. THE SEPARATIONS USED HEREIN ARE USED ONLY FOR THE PURPOSES OF CONVENIENCE AND REFERENCE, AND IN NO WAY DO THEY DEFINE OR LIMIT THE SCOPE OR INTENT OF ANY PART OF THE DRAWINGS, OR OF THE DRAWINGS AND SPECIFICATIONS AS A WHOLE. THE FACT THAT THE DRAWINGS ARE SEPARATED IN NO WAY SUGGESTS THAT THE WORK IS NOT TO BE CONSTRUCTED AS A COMPLETE, INTEGRATED AND UNIFIED WHOLE.

3. EVERY EFFORT HAS BEEN MADE TO MAKE THESE DOCUMENTS CONCISE AND COORDINATED, TO DEFINE WORK IN THE MOST LOGICAL PLACE AND TO ELIMINATE REDUNDANCY. DO NOT PRESUME THAT YOUR SCOPE OF WORK IS SINGULARLY DEFINED. YOUR SCOPE OF WORK IS DEFINED THROUGHOUT THE ENTIRE SET OF DRAWINGS AND SPECIFICATIONS AND IS NOT CONTAINED IN JUST ONE SERIES OF DRAWINGS OR DIVISION OF SPECIFICATIONS. YOU MUST REVIEW THE ENTIRE SET OF CONTRACT DOCUMENTS TO DETERMINE YOUR SCOPE OF WORK.

4. THE DRAWINGS AND SPECIFICATIONS, INCLUDING DRAWINGS PREPARED BY SPECIFIC ENGINEERING DISCIPLINES (SUCH AS CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, ETC.) ARE COMPLEMENTARY; ITEMS SHOWN IN ANY ONE LOCATION IN THE DRAWINGS SHALL BE CONSIDERED TO BE REQUIREMENTS OF THE CONTRACT FOR CONSTRUCTION. IN THE EVENT OF AN INCONSISTENCY BETWEEN THE DRAWINGS AND SPECIFICATIONS, OR WITHIN EITHER DOCUMENT, THE CONTRACTOR SHALL SEEK CLARIFICATION OR INTERPRETATION FROM THE ARCHITECT PRIOR TO BIDDING. WHERE INCONSISTENCIES ARE NOT CLARIFIED PRIOR TO BIDDING, AND WHERE THE ACTUAL SOLUTION OR INTENT CANNOT BE REASONABLY INFERRED, THE CONTRACTOR SHALL PROVIDE THE BETTER QUALITY OR GREATER QUANTITY OF WORK.

5. MECHANICAL AND ELECTRICAL DRAWINGS MAY SHOW INFORMATION IN A DIAGRAMMATIC FASHION WITHOUT DIMENSIONING. THE GENERAL CONTRACTOR IS TO COORDINATE THE LOCATIONS OF ALL M.E. EQUIPMENT WITH RESPECT TO THE ARCHITECTURAL AND STRUCTURAL DETAILING OF SHAFTS, CHASES, ETC...

6. THE CONTRACTOR AND ALL SUB-CONTRACTORS SHALL VISIT THE SITE AND BECOME FAMILIAR WITH SITE CONDITIONS AS THEY MAY AFFECT CARRYING OUT THE WORK AS DESCRIBED IN THESE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL INVESTIGATE, VERIFY, AND BE RESPONSIBLE FOR ALL CONDITIONS OF THE PROJECT, AND NOTIFY THE ARCHITECT OF ANY CONDITIONS THAT REQUIRE MODIFICATION BEFORE PROCEEDING WITH THE WORK.

7. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITY LINES. LOCATIONS SHOWN ARE APPROXIMATE. REPAIR ALL DAMAGE TO UTILITY LINES CAUSED BY CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.

8. ALL PERSONS DIRECTLY OR INDIRECTLY ASSOCIATED WITH THE PROJECT SHALL BE FAMILIAR WITH THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT, AND IMPLEMENT THOSE RULES AS THEY APPLY TO THIS PROJECT.

DRAWINGS AND DIMENSIONS

1. DO NOT SCALE THE DRAWINGS.

2. ALL DIMENSIONS ON PLANS ARE FINISH TO FINISH UNLESS NOTED OTHERWISE.

3. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ARCHITECT IMMEDIATELY SHOULD ANY DISCREPANCIES BE FOUND IN THE DRAWINGS AND SPECIFICATIONS.

4. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CHECKING ALL FIELD CONDITIONS AND DIMENSIONS AS THEY RELATE TO THIS PROJECT. SHOULD DISCREPANCIES EXIST BETWEEN THE WORK INDICATED AND ACTUAL FIELD CONDITIONS NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.

5. ACTUAL CONTRACT LIMITS ARE TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE OWNER BEFORE ACTUAL CONSTRUCTION WORK BEGINS. ANY INDICATION OF PROJECT LIMITS OR LINES OF DEMARCATION ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR, AND ARE NOT TO BE TAKEN LITERALLY.

6. SEE NOTES ON INDIVIDUAL DRAWINGS FOR INFORMATION RELATED TO PLANS AND DETAILS ON THOSE SHEETS.

7. THE TERM "ALIGN" REFERS TO LOCATING DIFFERENT COMPONENTS OF CONSTRUCTION TO PROVIDE A FLUSH FINISH SURFACE.

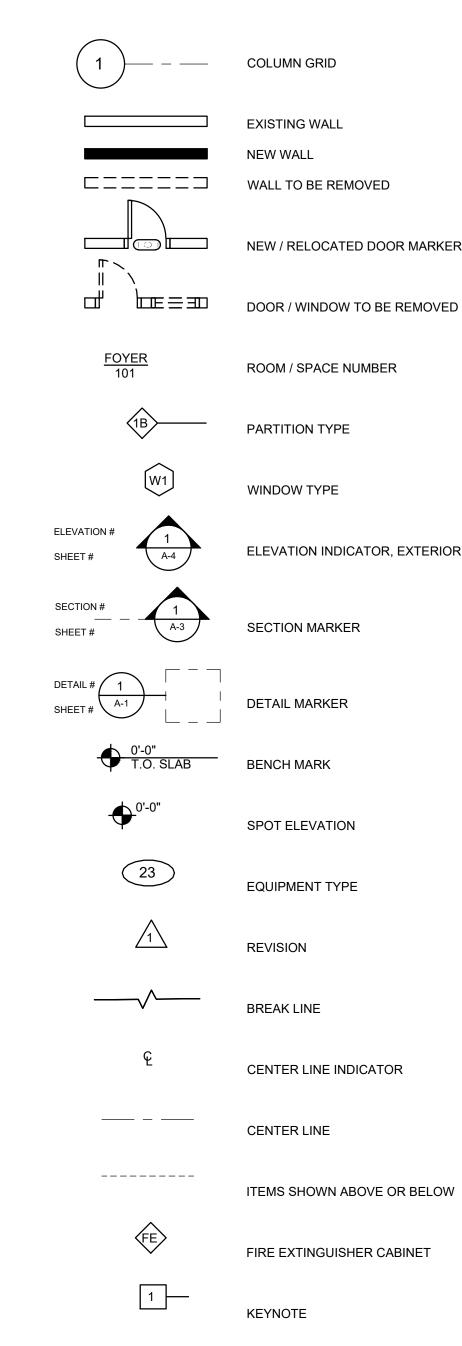
8. CONTRACTORS AND ALL SUB-CONTRACTORS SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION AND/OR ORDERING OF MATERIALS.

9. USE OF THE WORD "VERIFY" POINTS OUT A SITUATION WHICH MUST BE CONFIRMED PRIOR TO PROCEEDING WITH THE WORK, FABRICATION OF EQUIPMENT, OR ORDERING MATERIAL, NOTIFY THE ARCHITECT OF ANY DISCREPANCY.

ADA GENERAL NOTE

THE PROPOSED PROJECT WILL NEED TO COMPLY WITH THE CURRENT ADA GUIDELINES. BENCHES & BLEACHERS TO PROVIDE ADA ACCESS. PARKING AND ACCESS AREAS TO BE ADA COMPLIANT.





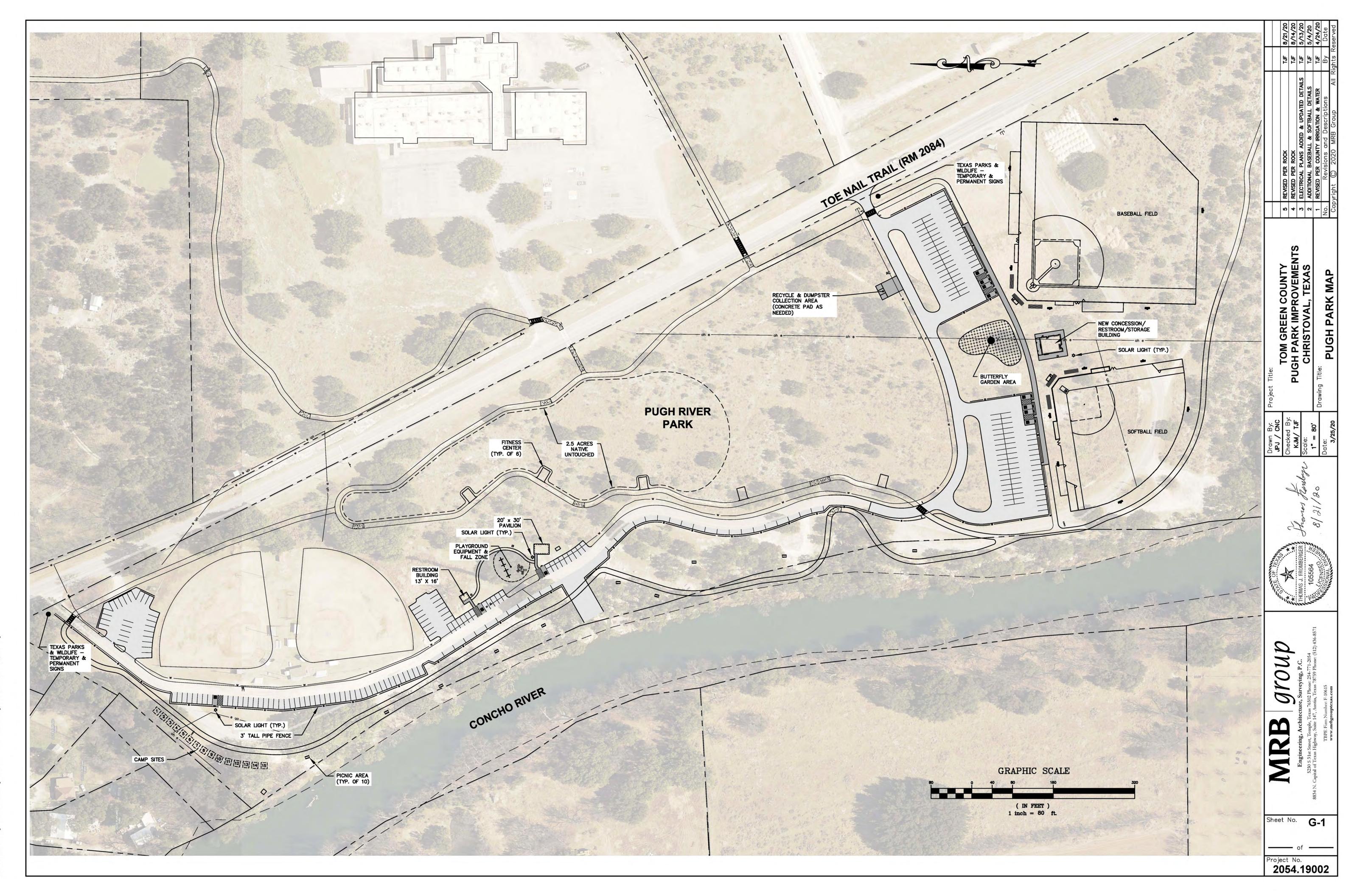
∖BB	REVIATIONS			8/21/20 8/14/20 5/13/20 5/4/20 4/24/20 Date
A.C.T	ACOUSTICAL CEILING TILE	JT.	JOINT	
ADJ.	ADJACENT	KIT.	KITCHEN	
A.F.F. ALUM.	ABOVE FINISH FLOOR ALUMINUM	LAM. LAV.	LAMINATE LAVATORY	
ALT.	ALTERNATE	LWT.		LS LS
ANOD. APPROX.	ANODIZED APPROXIMATE	MAS. MAT.	MASONRY MATERIAL	
ARCH.		MAX.		REVISED PER ROCK REVISED PER ROCK ELECTRICAL PLANS ADDED & UPDATED DETAILS ADDITIONAL BASEBALL & SOFTBALL DETAILS REVISED PER COUNTY IRRIGATION & WATER Revisions and Descriptions
ASPH. AUTO.	ASPHALT AUTOMATIC	MECH. MEMB.	MECHANICAL MEMBRANE	& UPDA DFTBALL ation &
BD.	BOARD	MET.		SATION SOFT
BLDG. BLK.	BUILDING BLOCK	MEZZ. MIN.	MEZZANINE MINIMUM	ADDED ALL & S and D
BLKG.	BLOCKING	MIR.		ADDE ALL & and and
BLT. BM.	BOLT BEAM	MISC. M.O.	MISCELLANEOUS MASONRY OPENING	REVISED PER ROCK REVISED PER ROCK ELECTRICAL PLANS AD ADDITIONAL BASEBALL REVISED PER COUNTY Revisions an
BOT.	BOTTOM	MTD.	MOUNTED	PER ROCK PER ROCK AL PLANS AL BASEB PER COUN evisions
BRK. BSMNT.	BRICK BASEMENT	MTG. MTL.	MOUNTING METAL	REVISED PER REVISED PER ELECTRICAL P ADDITIONAL B REVISED PER REVISED PER
CAB.	CABINET	MUL.	MULLION	REVISED REVISED ELECTRIO ADDITION REVISED
CER. C.J.	CERAMIC CONTROL JOINT	MW. N	MICROWAVE NORTH	REVISED REVISED ELECTRIO ADDITION REVISED
CLG.	CEILING	N.I.C	NOT IN CONTRACT	
CLKG. CLOS.	CAULKING CLOSET	NO., # NOM.	NUMBER NOMINAL	Z 2 2 2 4 5
LUS. LR.	CLEAR	N.T.S	NOT TO SCALE	
C.M.U.	CONCRETE MASONRY UNIT COLUMN	0.A. 0.C.	OVERALL ON CENTER	
COL. CONC.	CONCRETE	0.C. 0.D.		
ONN.	CONNECTION	OFF.	OFFICE	S S
CONST.	CONSTRUCTION CONTINUED, CONTINUOUS	OH. OPNG.	OVERHEAD OPENING	
OORD.	COORDINATE	OPP.	OPPOSITE	
ORR. TR.	CORRIDOR CENTER	O.H. OZ	OPPOSITE HAND OUNCE	Title: TOM GREEN COUNTY PUGH PARK IMPROVEMEI CHRISTOVAL, TEXAS Title:
.L.	CENTERLINE	PAV.	PAVING	
BL. EMO.	DOUBLE DEMOLISH	PL. P.LAM	PLATE PLASTIC LAMINATE	
EPT.	DEPARTMENT	PLAS.	PLASTER	
DET. DIA.	DETAIL DIAMETER	PLYWD. PR.	PLYWOOD PAIR	
IM.	DIMENSION	PRCST.	PRECAST	
N.	DIVISION DOWN	PT. PTD.	PRESSURE TREATED PAINTED	
NR.	DOOR	PART.	PARTITION	TOM GREE SH PARK IN CHRISTOV
).S. WG.	DOWN SPOUT	RAD. R.B.	RADIUS RESILIENT BASE	TOM SH PA CHRI
WG. WR.	DRAWING DRAWER	к.в. R.C.P.	REFLECTED CEILING PLAN	
A.	EACH	R.D.	ROOF DRAIN	PUG Title:
.J. I FLEV	EXPANSION JOINT . ELEVATION	REC. REF.	RECESSED REFERENCE	
LÉC.	ELECTRICAL	REFR.	REFRIGERATOR	Project Drawing
LEV. NCL.	ELEVATOR ENCLOSURE	REINF. REQ.	REINFORCED REQUIRED	Projec
NT.	ENTRANCE	RESIL.	RESILIENT	
Q. QUIP.	EQUAL EQUIPMENT	REV. RGTR.	REVISION REGISTER	× B B C L L
.W.	EACH WAY	RM.	ROOM	
XIST. XP.	EXISTING EXPANSION	R.O. R.W.L.	ROUGH OPENING RAIN WATER LEADER	Drawn E CNC/JP. Checked TMR/ Scale: N.T.
XPO.	EXPOSED	S	SOUTH	Drawn CNC/C TMF TMF Scale: N N
ХТ. .А.	EXTERIOR FIRE ALARM	S.C. SCHED.	SOLID CORE SCHEDULE	
.A. .D.	FLOOR DRAIN	SECT.	SECTION	2
DN. .E.	FOUNDATION FIRE EXTINGUISHER	SHR. SHT.	SHOWER SHEET	la
.е. .е.с.	FIRE EXTINGUISHER CABINET	SIM.	SIELI	Não
IN.	FINISH	S.P.	STANDPIPE	the a
IXT. LASH.	FIXTURE FLASHING	SPEC. SQ.	SPECIFICATION SQUARE	2 -
LOUR.	FLUORESCENT	SS.	STAINLESS STEEL	on 10
.O. .O.C.	FACE OF FACE OF CONCRETE	SK. STD.	SERVICE SINK STANDARD	The of
.O.E.W.	FACE OF EXISTING WALL	STL.	STEEL	· D
.O.F. .O.M.	FACE OF FINISH FACE OF MASONRY	STOR. STRUCT.	STORAGE STRUCTURAL	Security (1)
.O.S.	FACE OF STUDS	SUSP.	SUSPENDED	美 、美国·普勒
.S. T.	FULL SIZE FOOT, FEET	SYM. TEMP.	SYMMETRICAL TEMPERED	
TG.	FOOTING	T.G.	TEMPERED GLASS	NSE NSE
URR.	FURRING	T.&G. TH.	TONGUE AND GROOVE THICK	
UT. A.	FUTURE GAUGE	TLT.	TOILET	WAS
ALV.	GALVANIZED	Т.О.	TOP OF	THE PROVE
i.B. iEN.	GRAB BAR GENERAL	T.O.W. TYP.	TOP OF WALL TYPICAL	1113900
FCMU	GROUND FACE C.M.U.	U.O.N.	UNLESS OTHERWISE NOTED	
iL. iLZ.	GLASS GLAZING	VB. V.C.T.	VAPOR BARRIER VINYL COMPOSITION TILE	71
ND.	GROUND	VERT.	VERTICAL	9:
R. W.B.	GRADE GYPSUM WALL BOARD	VEST. V.I.F.	VESTIBULE VERIFY IN FIELD	5 2
I.C.	HOLLOW CORE	VNR.	VENEER	OUL ng. P.C. 254-771-2054 3759 Phone: (512
D.		VOL.	VOLUME	P.C.
IDWD. I.M.	HARDWOOD HOLLOW METAL	W. W/	WEST WITH	1.3 54-7 ⁷ 759 P
ORIZ.	HORIZONTAL	W.C.	WATER CLOSET	eyin s 787 s 787
IR. IT.	HOUR HEIGHT	WD. WIN.	WOOD WINDOW	Jrout Surveying, P.C 02 Phone: 254-771-2 n, Texas 78759 Phor F-10615
D.	INSIDE DIAMETER	WK.	WORK	
N. NCL.	INCH, INCHES INCLUDE(D)	W/O WP.	WITHOUT WATERPROOFING	Texas 7/ Aurona 147, Aurona 117, Aurona 118, Aurona 11
ISUL.	INSULATION	WP. WT.	WEIGHT	Fighter Products of Texas 765(of Texas Highway, Suite 147, Austri TBPE Firm Number:
NT. .C.	INTERIOR JANITOR'S CLOSET			Provide the second seco
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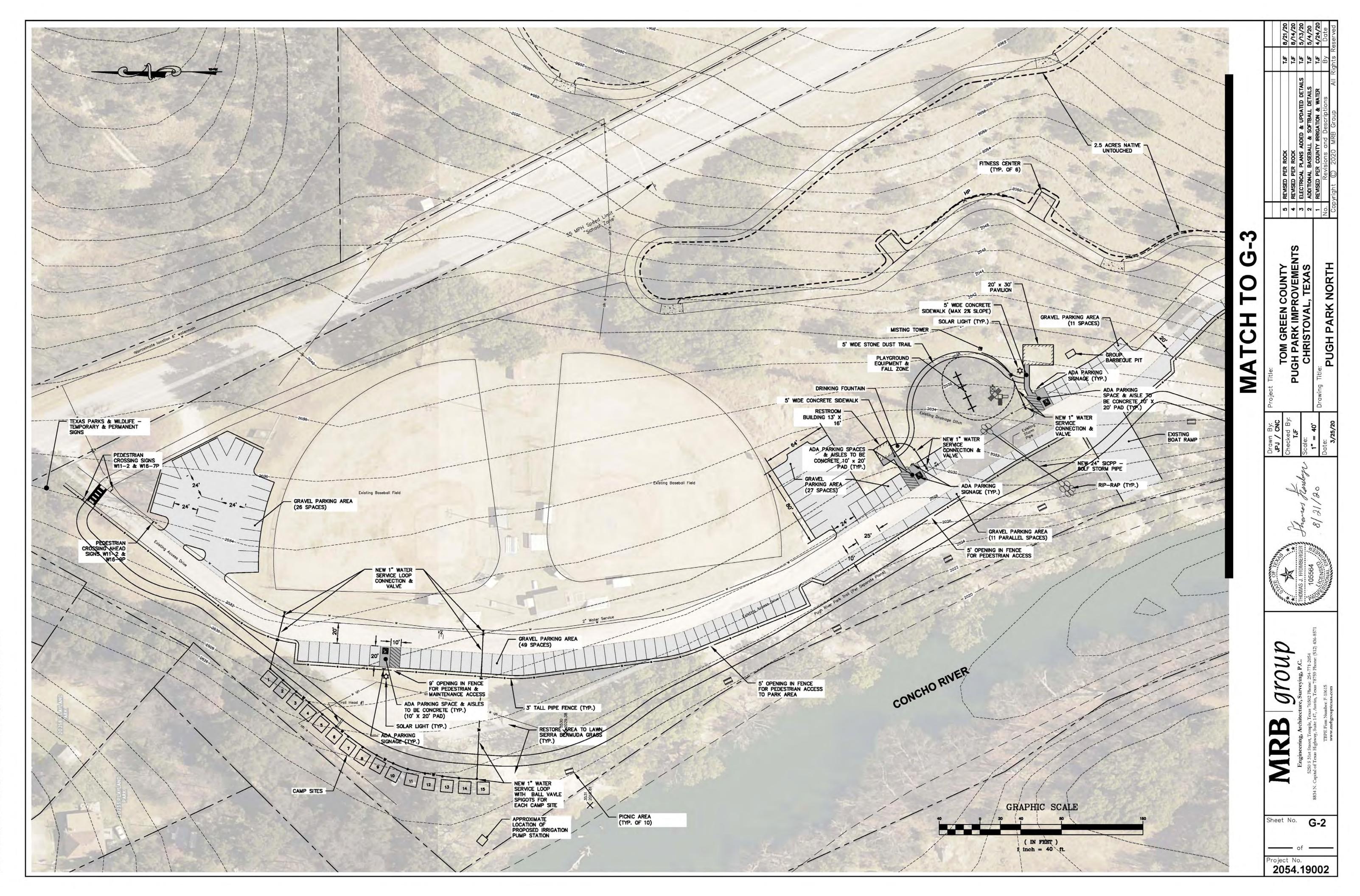
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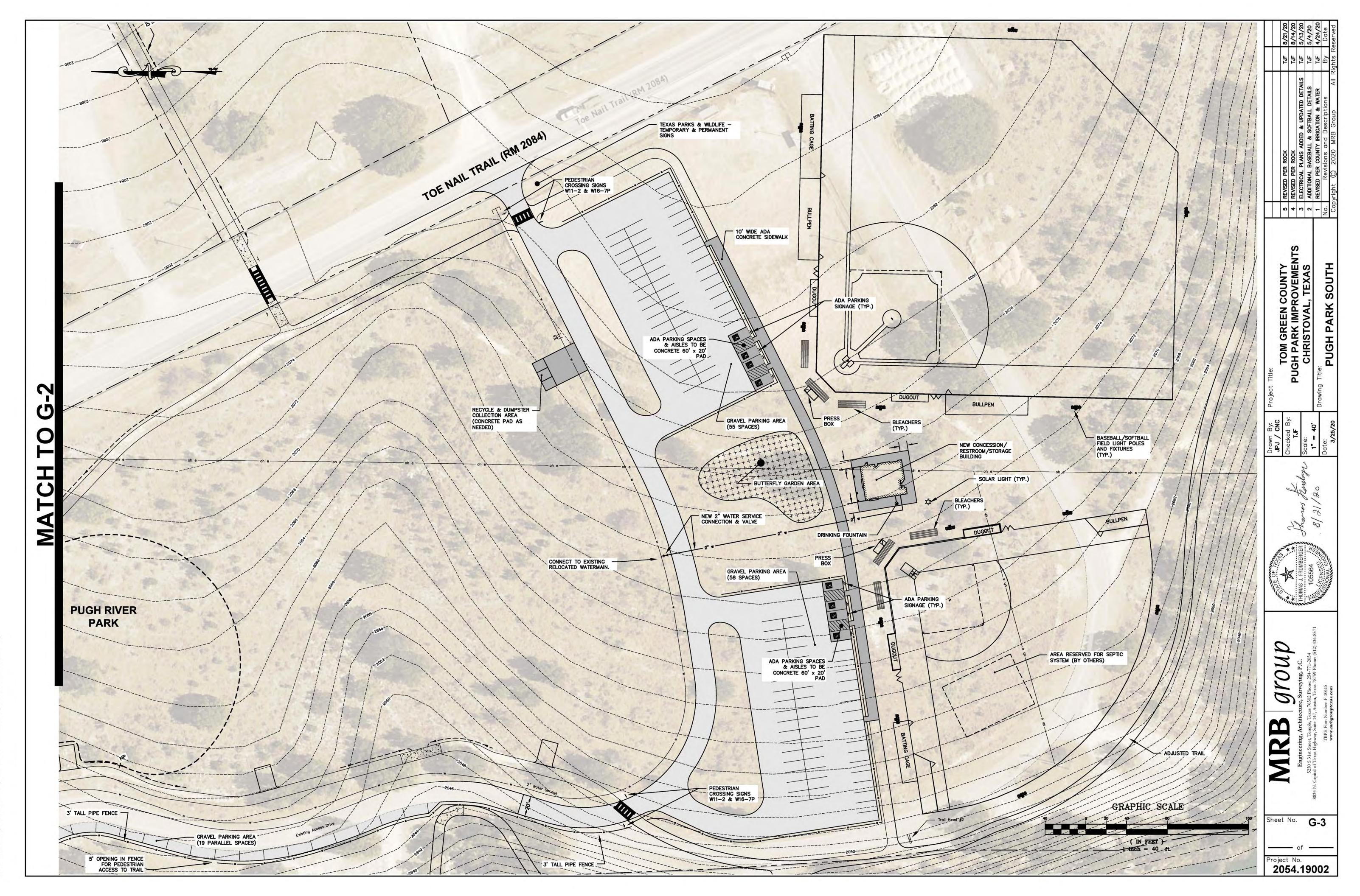
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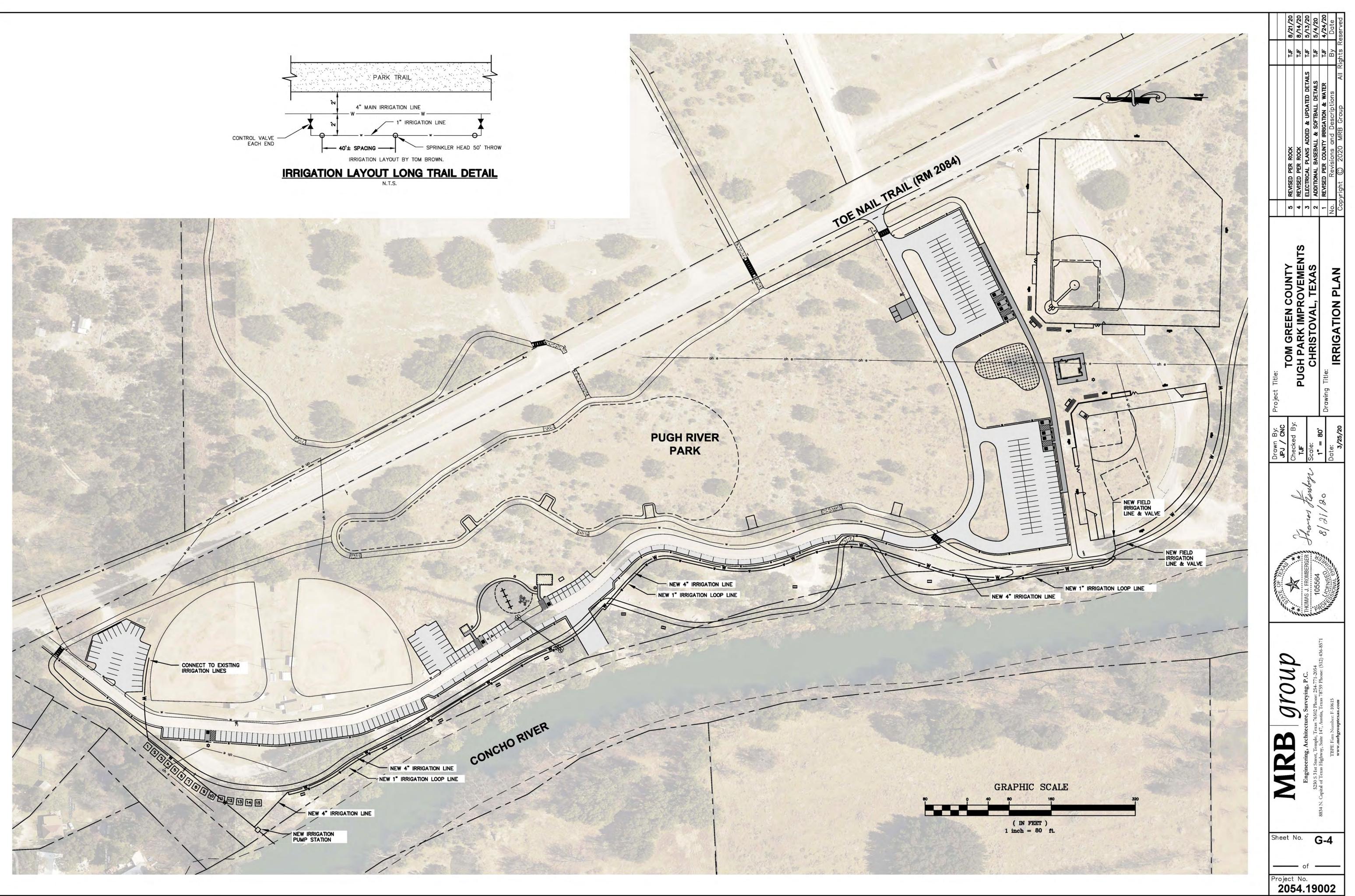
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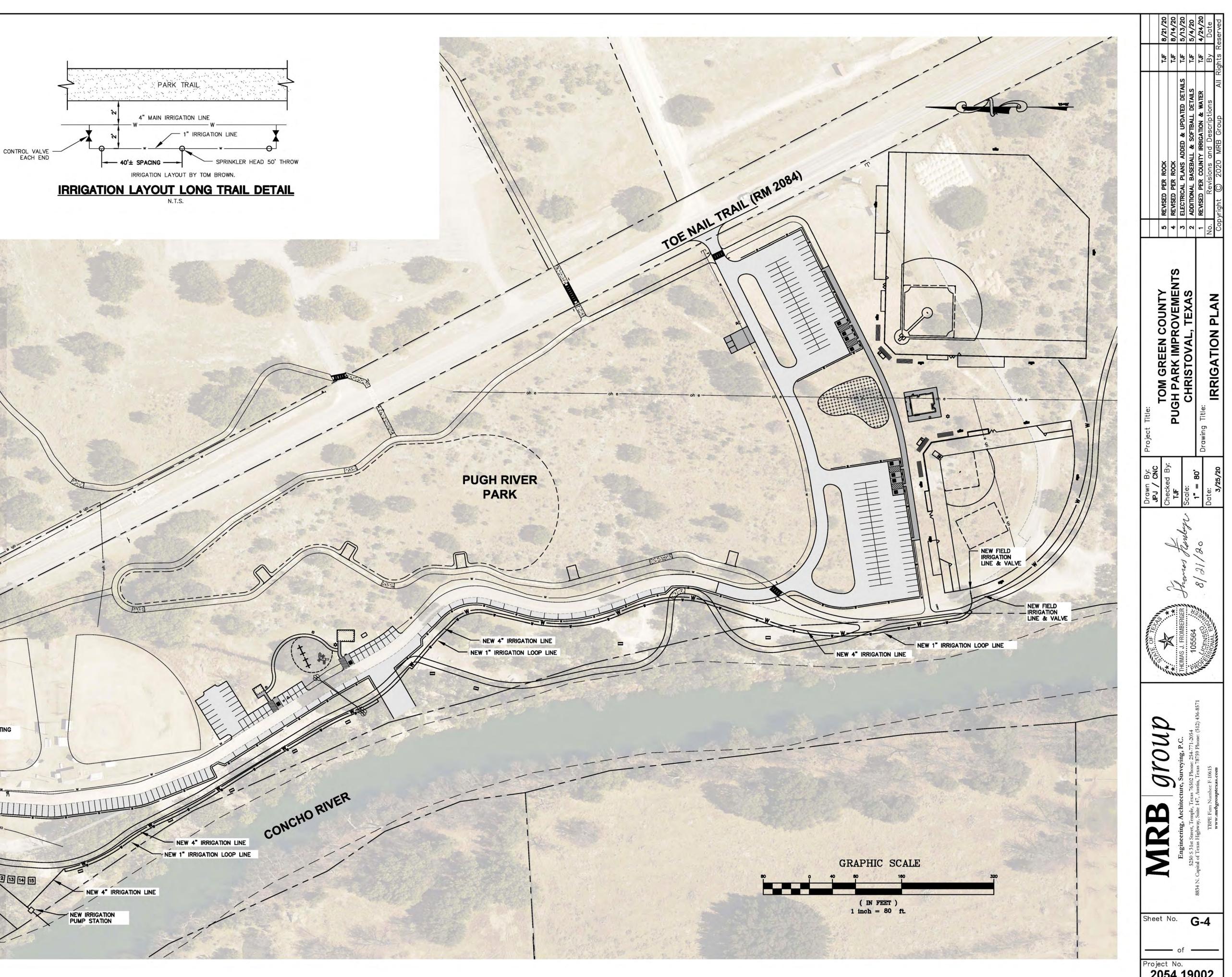


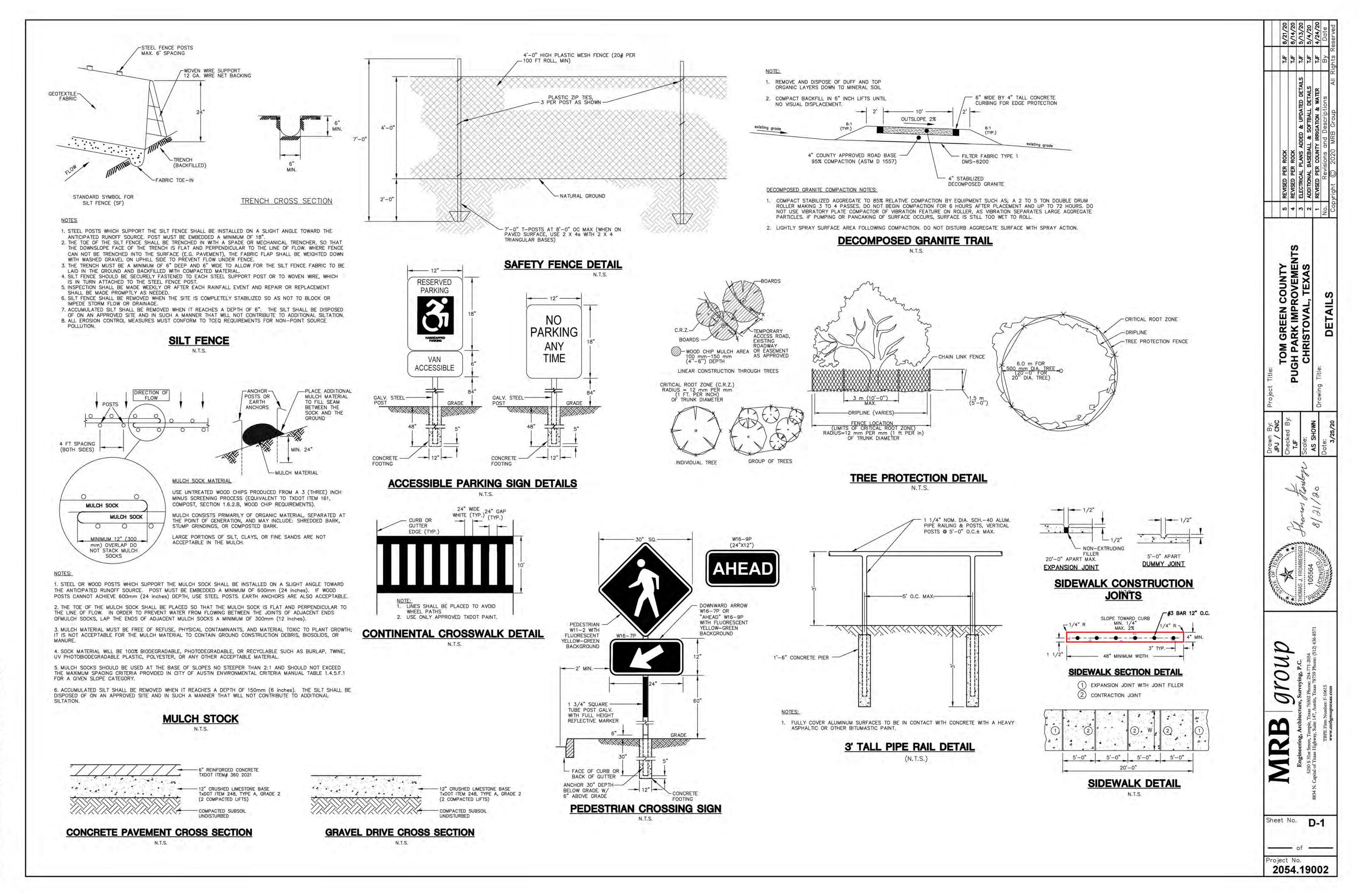


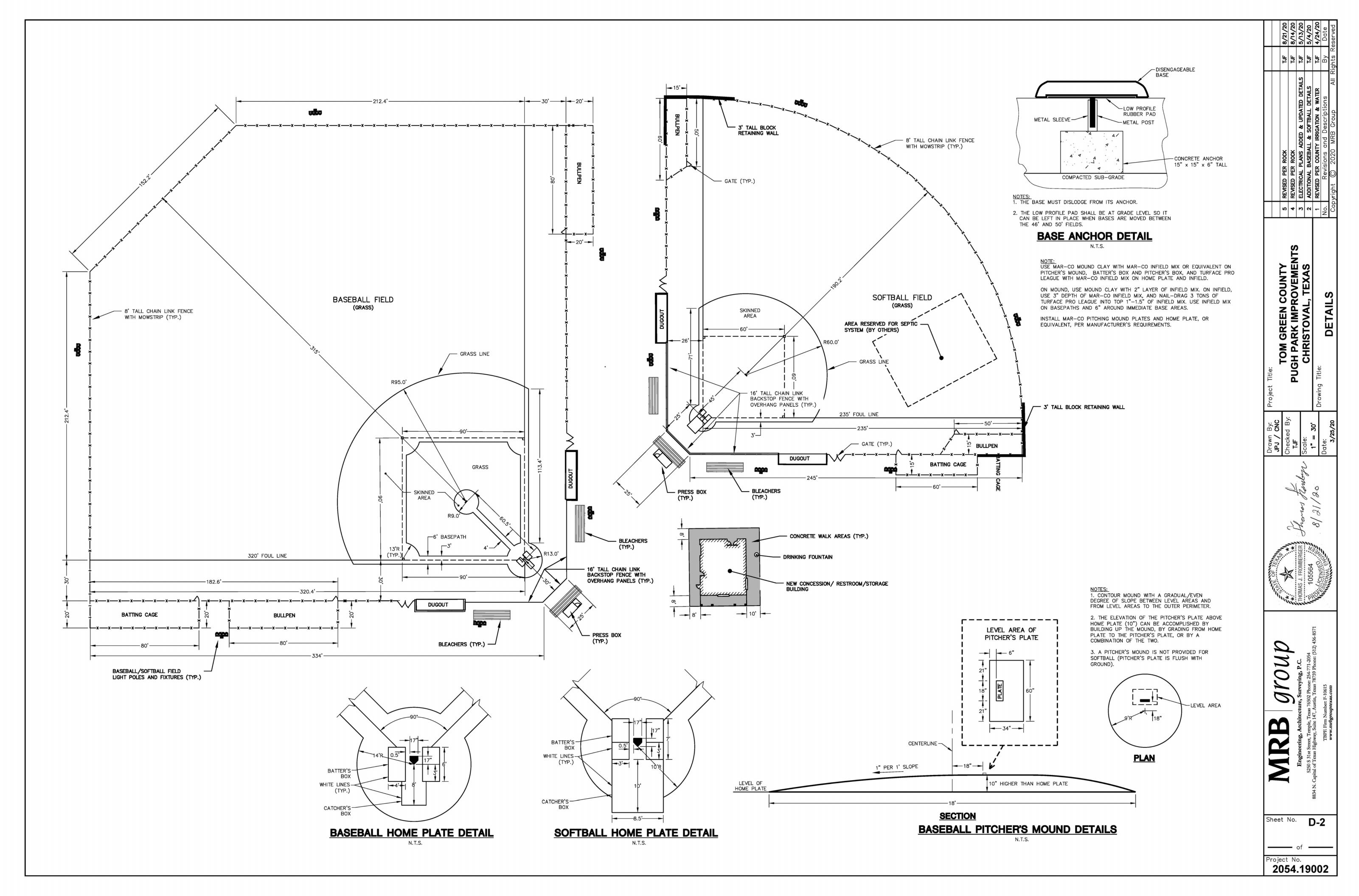


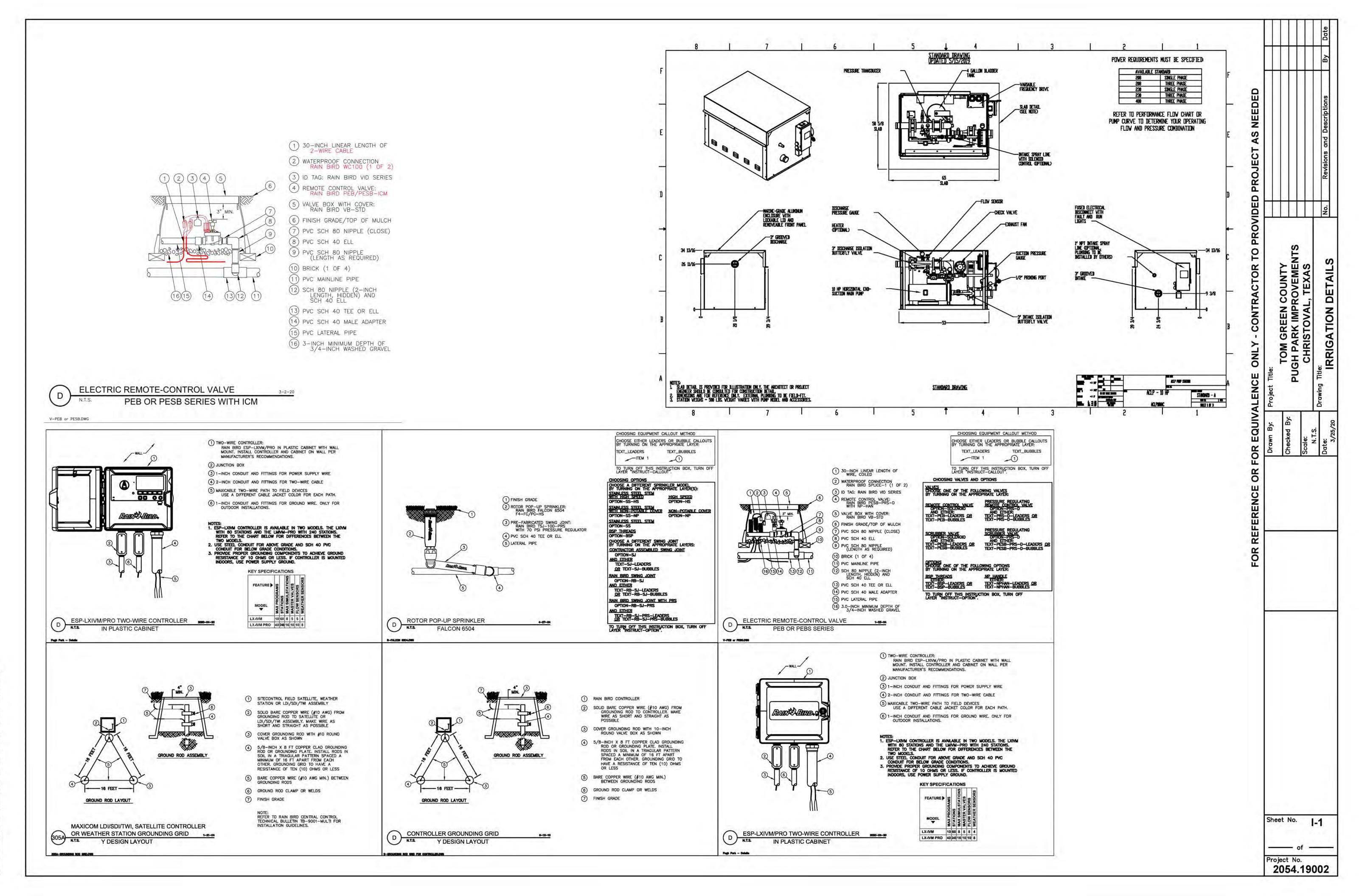
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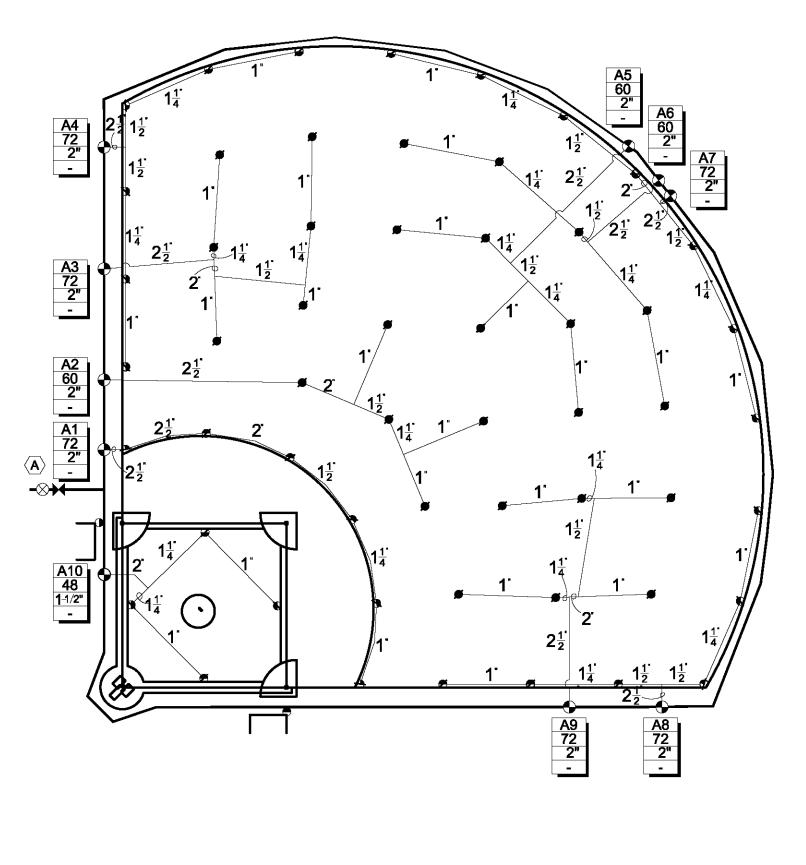


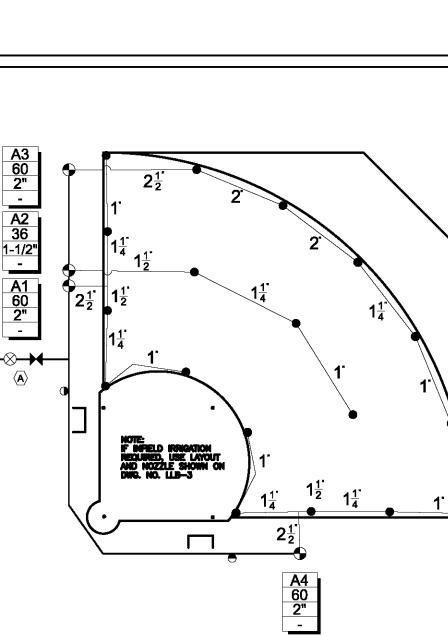










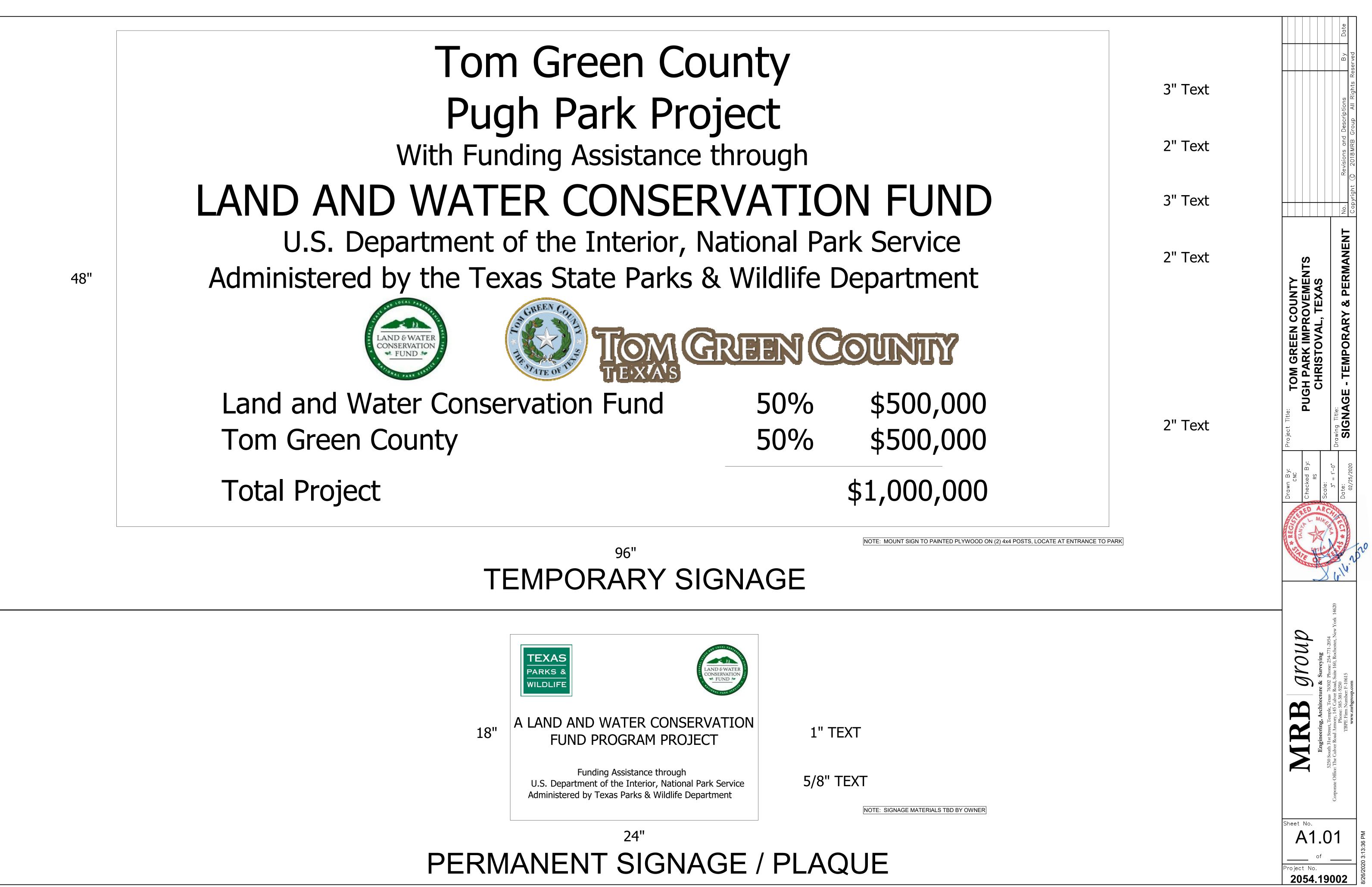


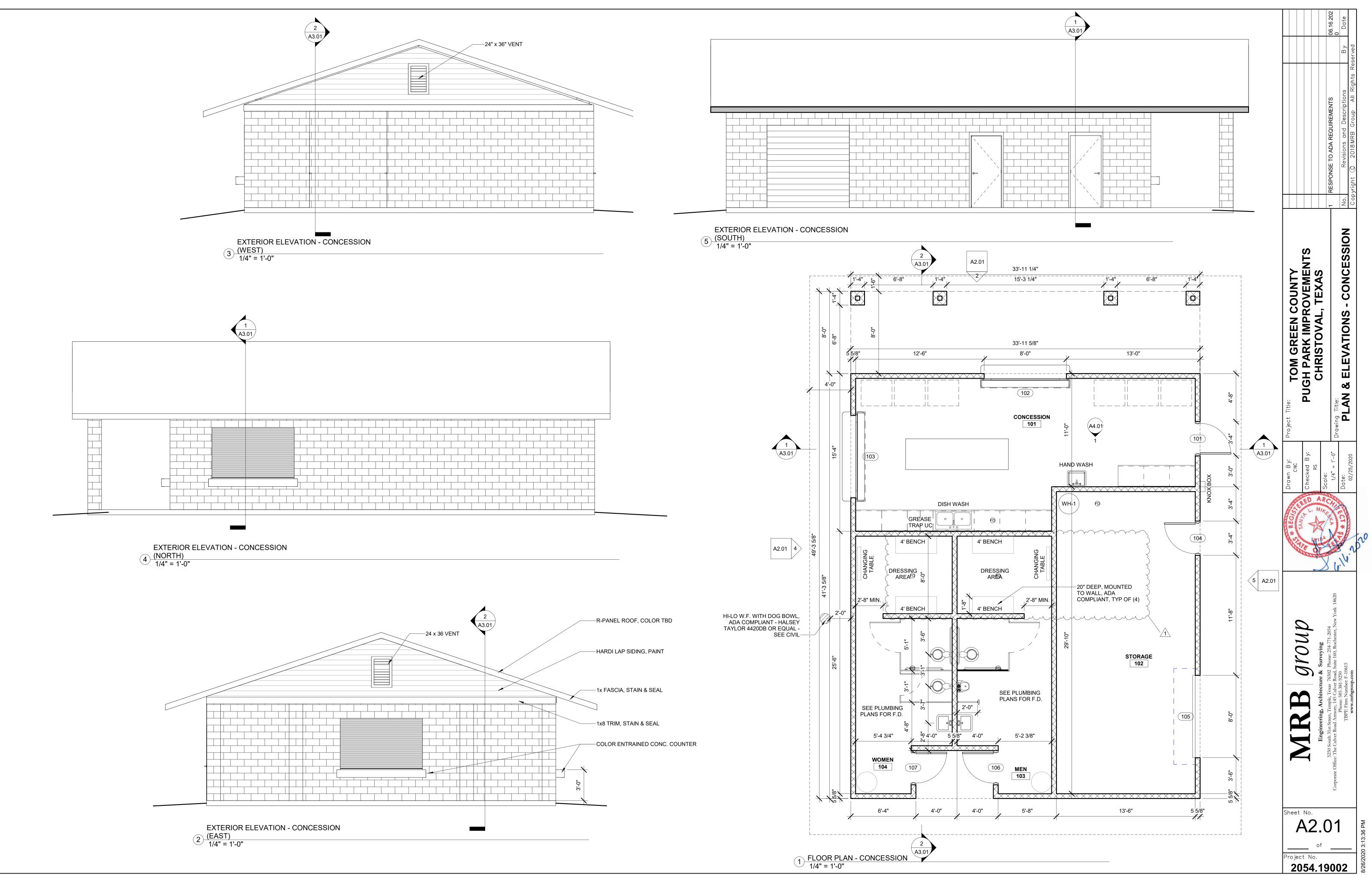
GENERAL NOTES

- 1. DESIGN IS BASED UPON A MINIMUM FLOW OF 60 GPM AND A MINIMUM PRESSURE OF 75 PSI DOWNSTREAM OF BACKFLOW PREVENTION DEVICE. IF SUFFICIENT PRESSURE IS NOT AVAILABLE AT POINT-OF-CONNECTION INSTALL A BOOSTER PUMP. CONTACT A RAIN BIRD REPRESENTATIVE FOR THE APPROPRIATE PUMP FOR THE SITE.
- 2. ADDITIONAL LATERALS OUTSIDE PLAY FIELD AREA MAY BE INSTALLED PROVIDED HYDRAULIC CAPABILITY OF SUPPLY IS NOT EXCEEDED.
- 3. SPRINKLER LOCATIONS ARE TO SCALE. PIPE LOCATIONS ARE DIAGRAMMATIC.
- PROVIDE #55K-1 KEY (1" MALE OUTLET) AND SH-2 SWIVEL HOSE ELL FOR EACH QUICK COUPLING VALVE.

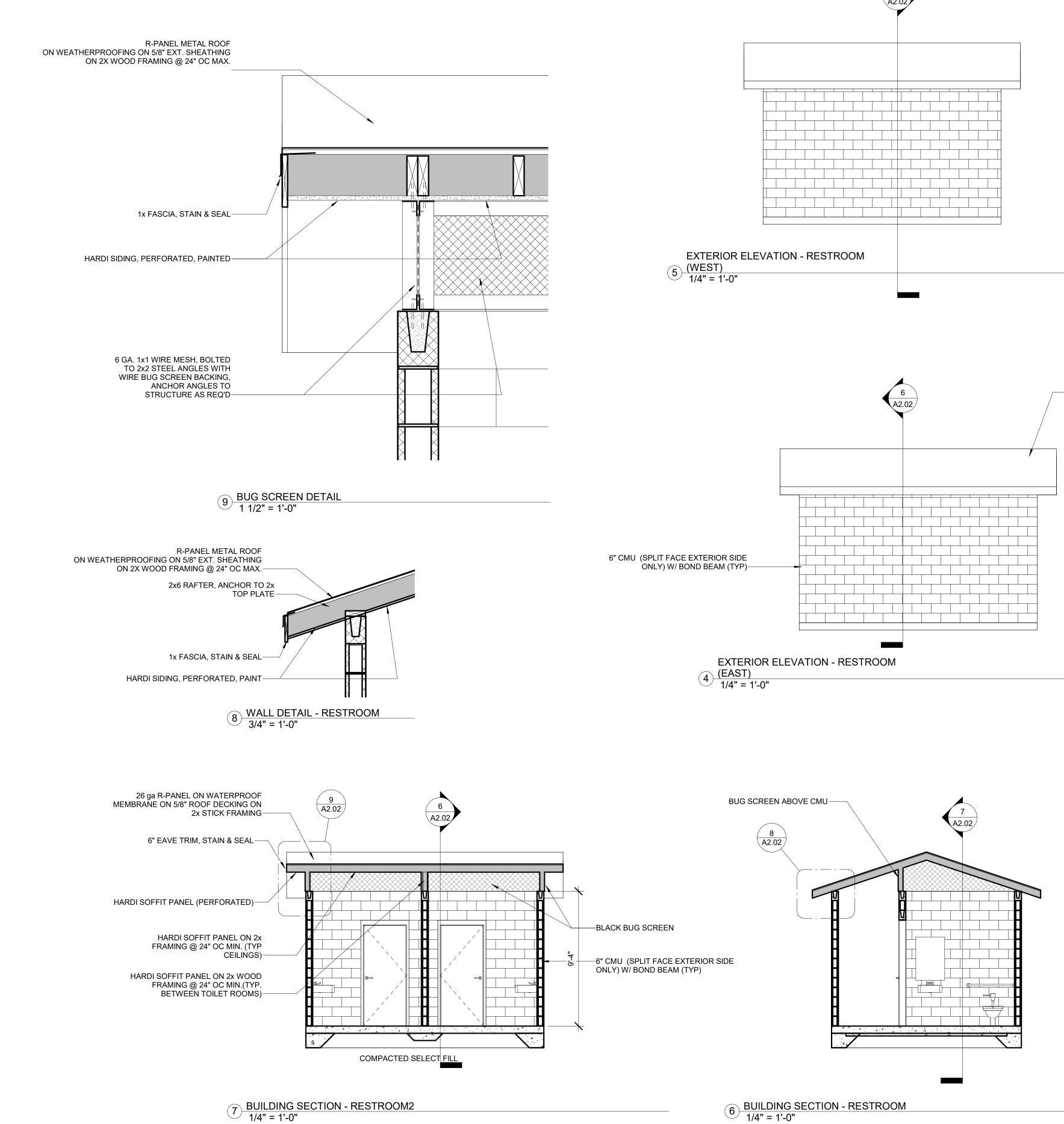
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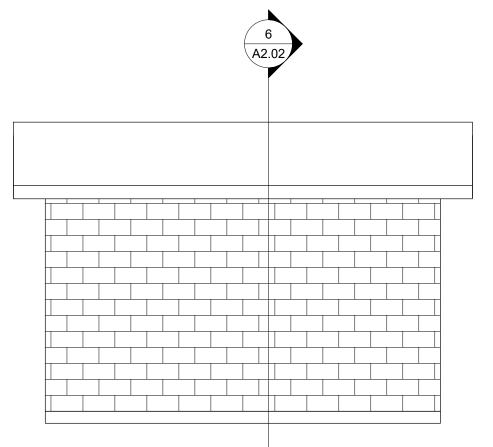
$\frac{1}{1_{4}}$	Production of the	OFFICIAL BASEBALL 320' BASELINE 400' CENTERFIELD BOD5 SPRINKLER BIE Cote Dote Drawing Number	FOR EQUIVALENCE ONLY - CONTRACTOR TO PROVIDED PROJECT AS NEEDED	Drawn By: Project Title: Checked By: PUGH PARK IMPROVEMENTS Scale: Checked By: Checked By:	
A3 (1) (2) (2) (2) (1) (2) (2) (1) (2) (1) (2) (1) (2) (1) (1) (2) (1) (1) (1) (2) (1) (1) (1) (1) (1) (2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	NTITY MAINLINE PIPE: CLASS 200 PVC (2-1/2 INCH SIZE) LATERAL PIPE: CLASS 200 PVC (SIZED AS SHOWN) A1 INDICATES CONTROLLER AND CONTROLLER STATION NUMBER 1001CATES LATERAL DISCHARGE IN GPM	LITTLE LEAGUE/ SOFTBALL OUTFIELD FENCE 8005 SPRINKLER 905 SPRINKLER 9005 SPRINKLER 9005 SPRINKLER 9005 SPRINKLER 9005 SPRINKLER 9005 SPRINKLER 9005 SPRINKLER	FOR REFERENCE OR FOI		I-2





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(<u>SOUTH</u>) <u>1/4" = 1'-0"</u>

-26 ga R-PANEL ON WATERPROOF MEMBRANE ON 5/8" ROOF DECKING ON 2x STICK FRAMING

STEEL ANGLES-

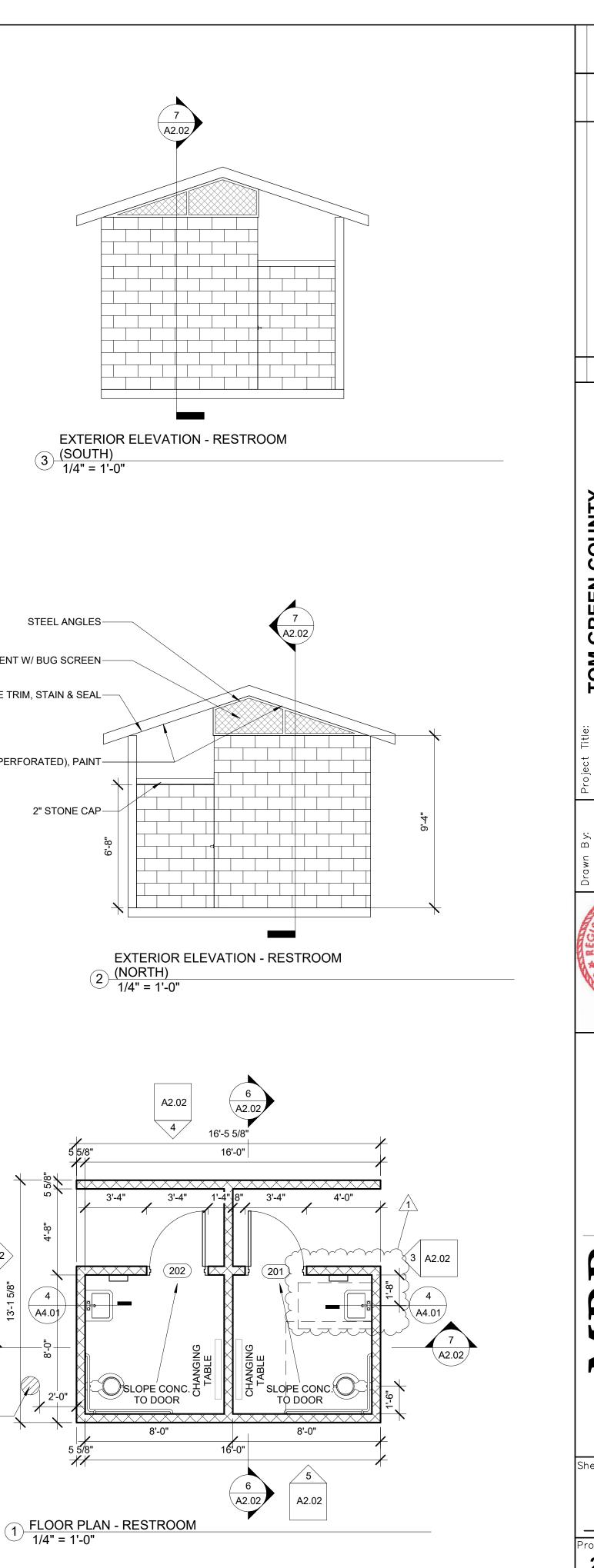
GABLE VENT W/ BUG SCREEN-

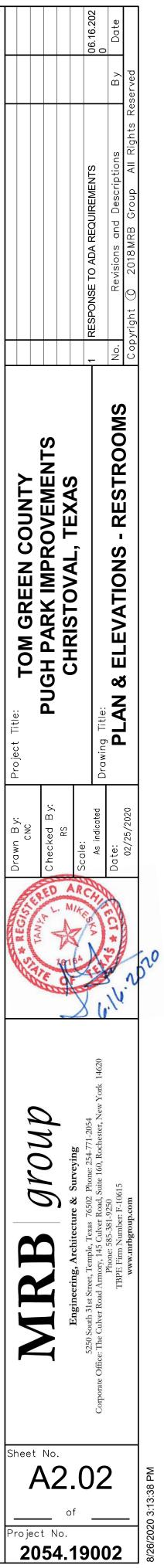
6" EAVE TRIM, STAIN & SEAL—

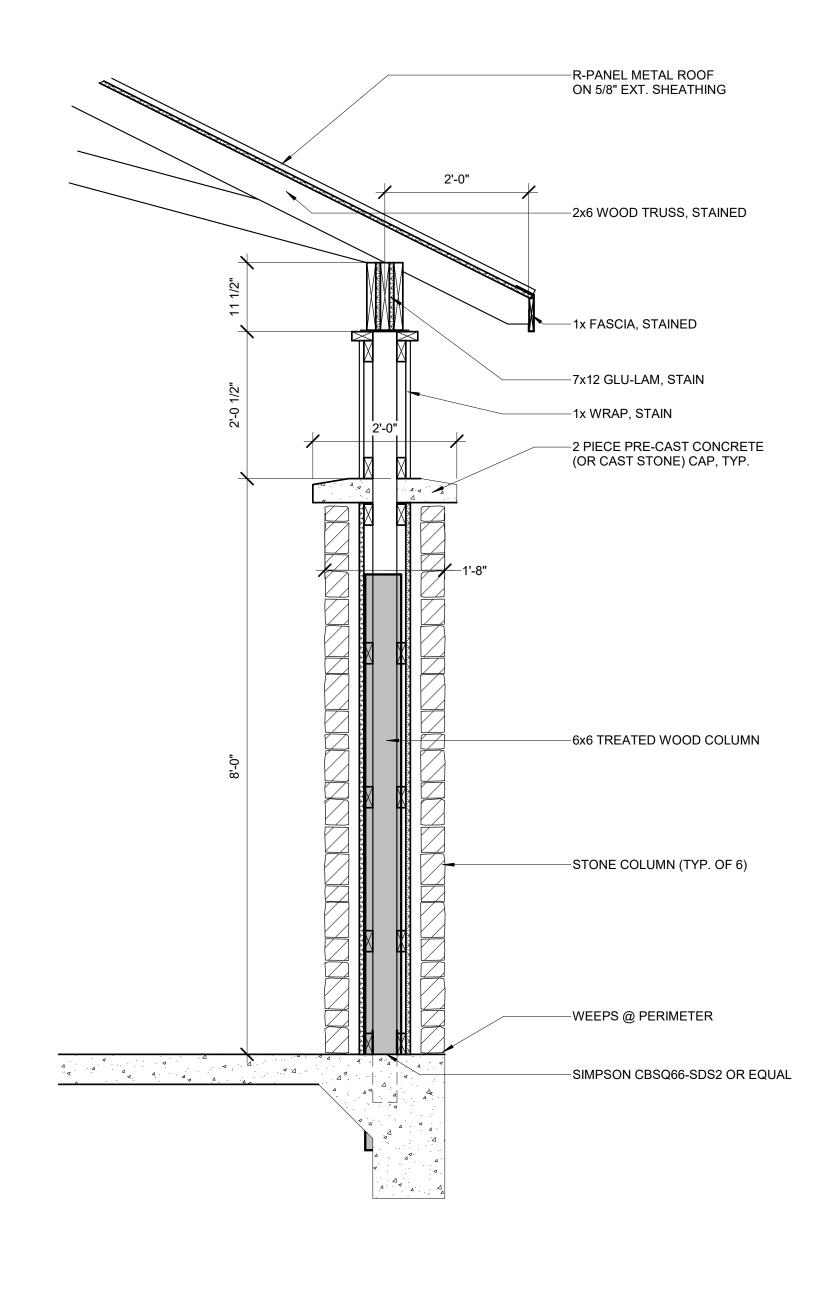
HARDI SOFFIT PANEL (PERFORATED), PAINT-

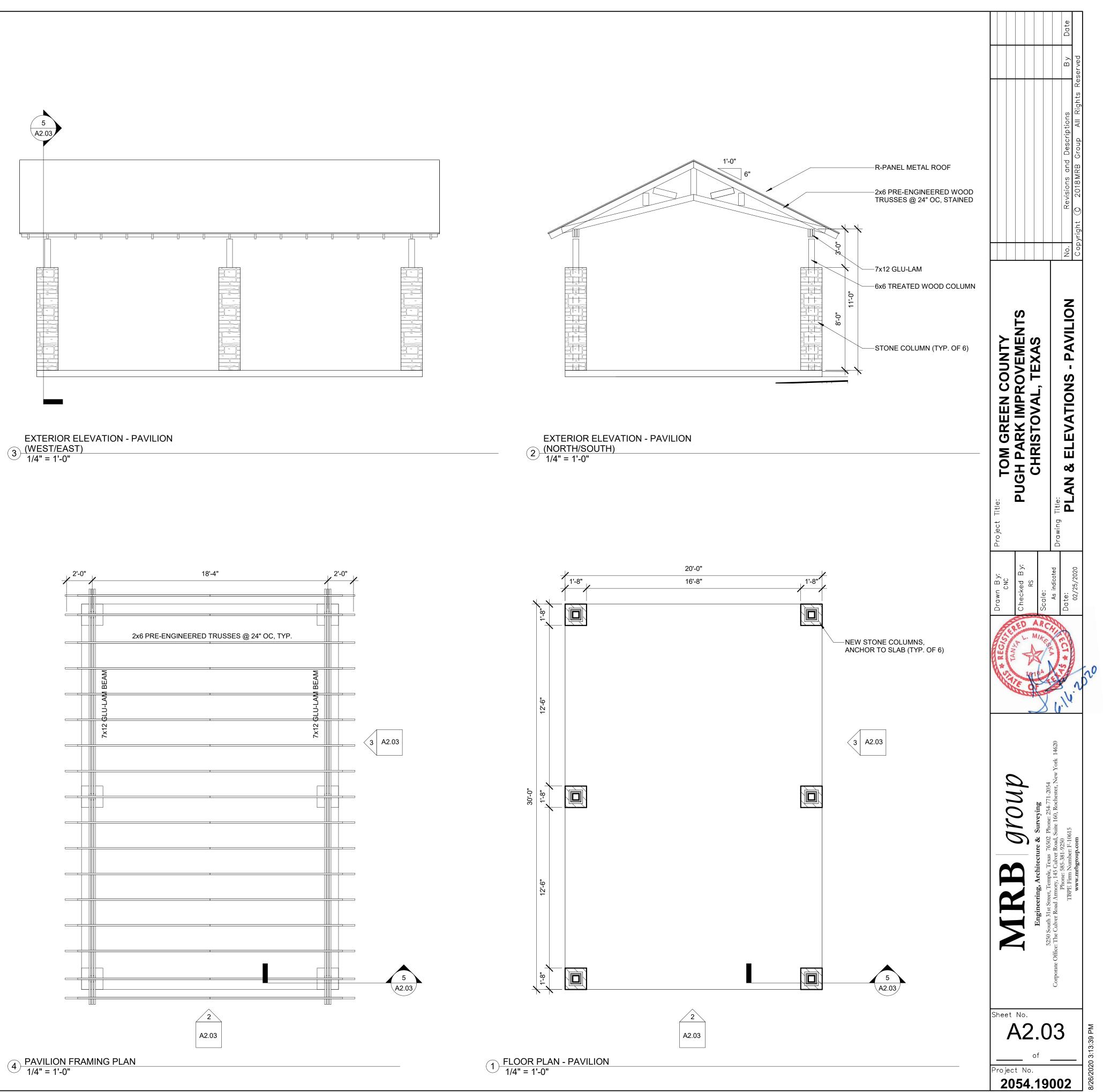
2" STONE CAP-

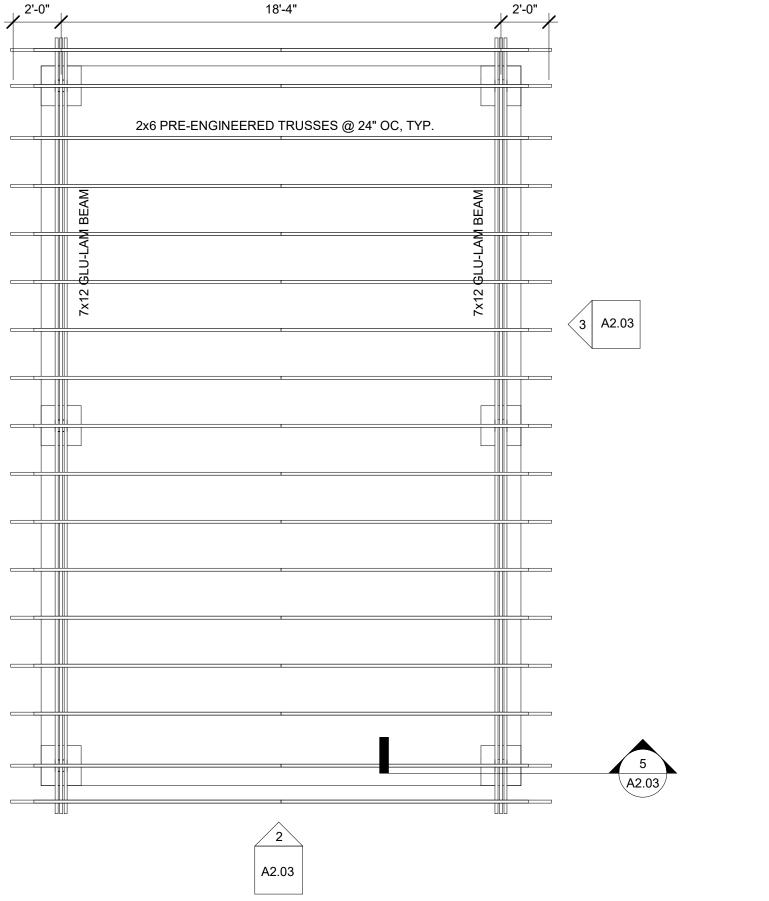
5/8 5 5/8 A2.02 2 A4.01 7 A2.02 HI-LO W.F. WITH DOG BOWL, ADA COMPLIANT - HALSEY TAYLOR 4420DB OR EE ON # SEE CIVIL- \boldsymbol{X}

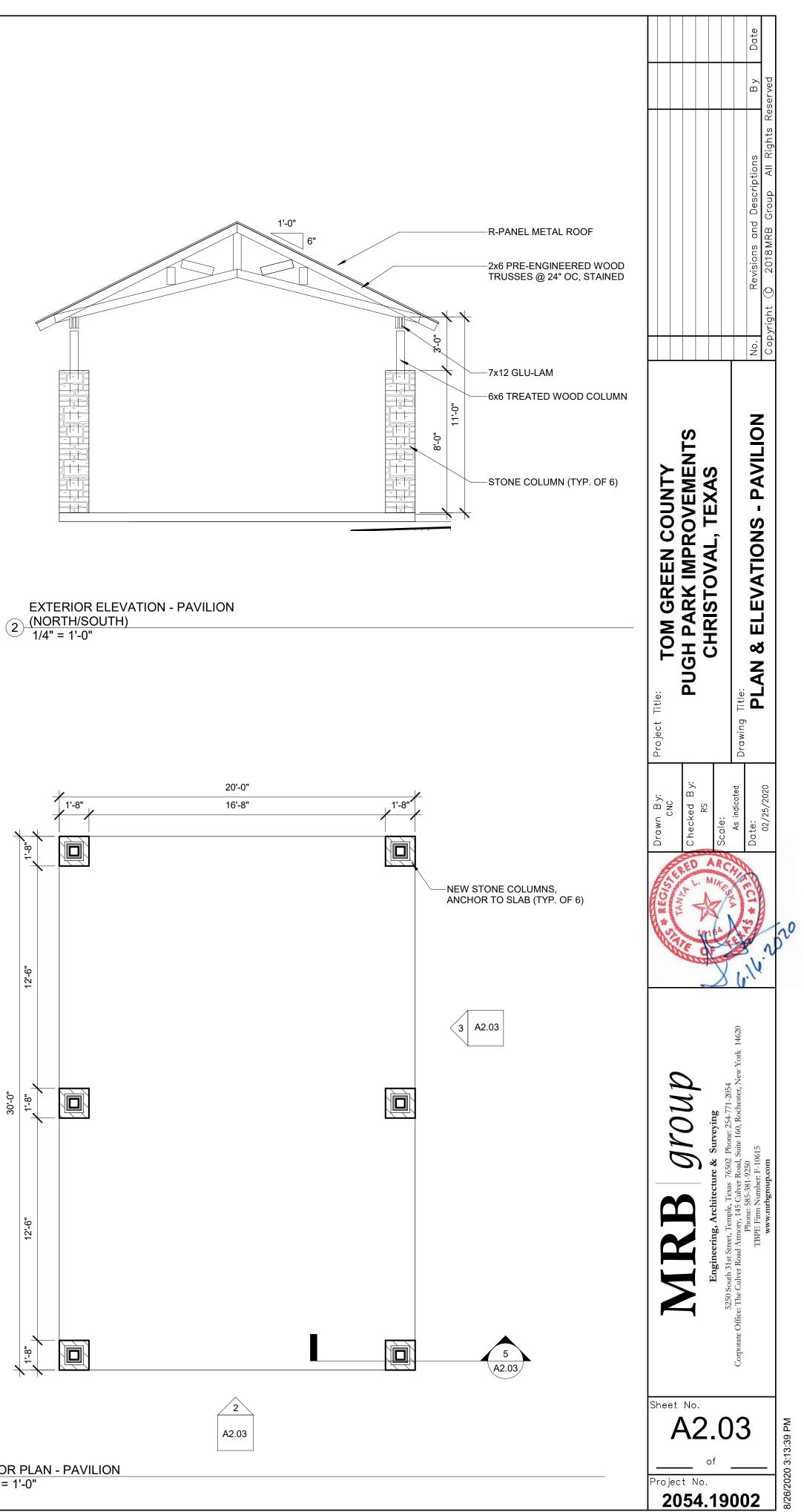


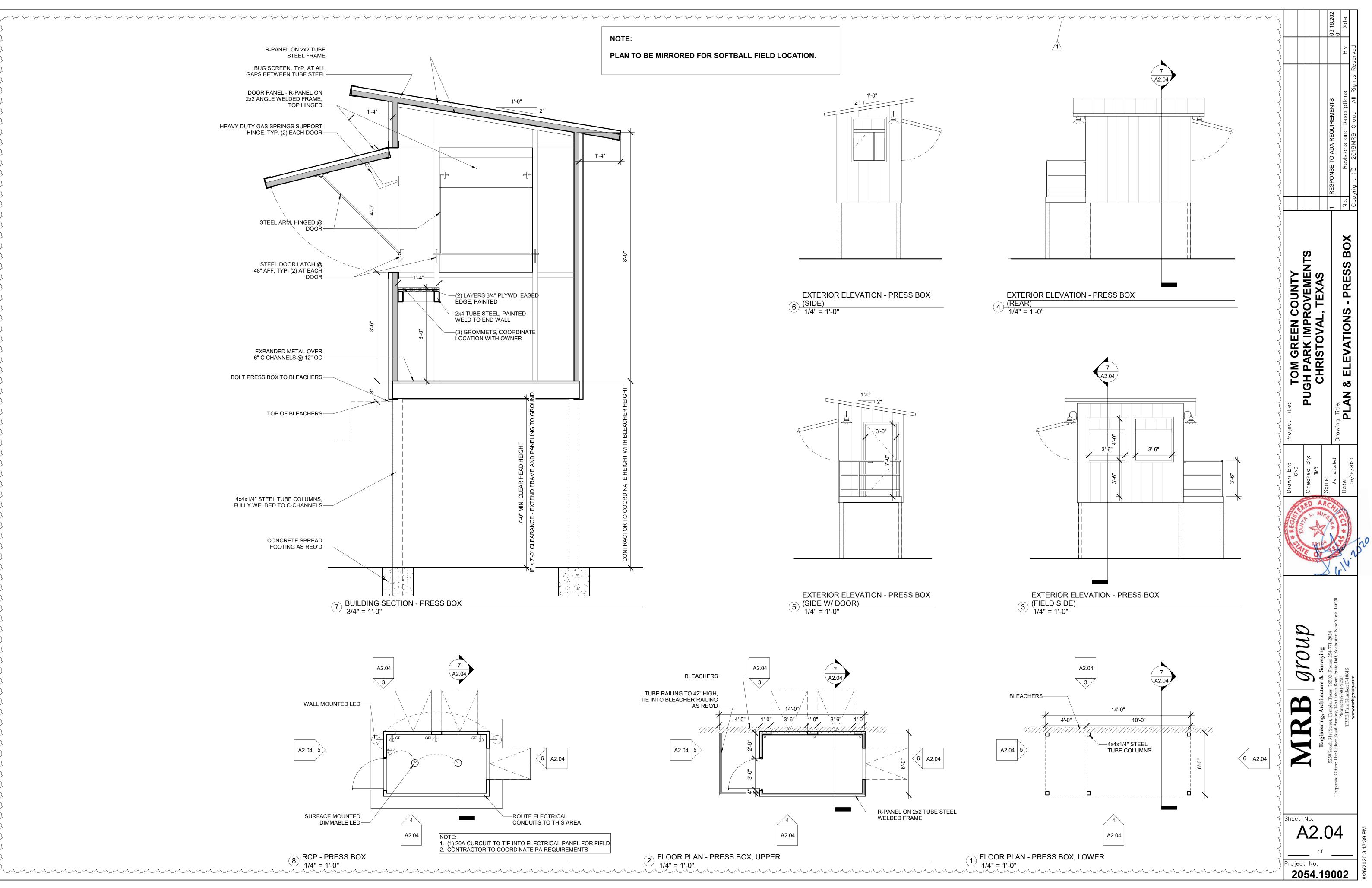




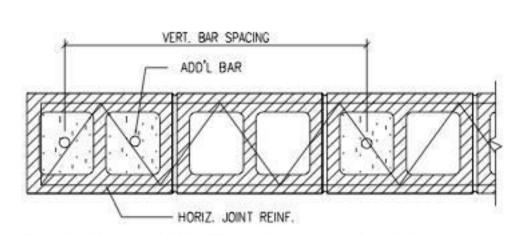




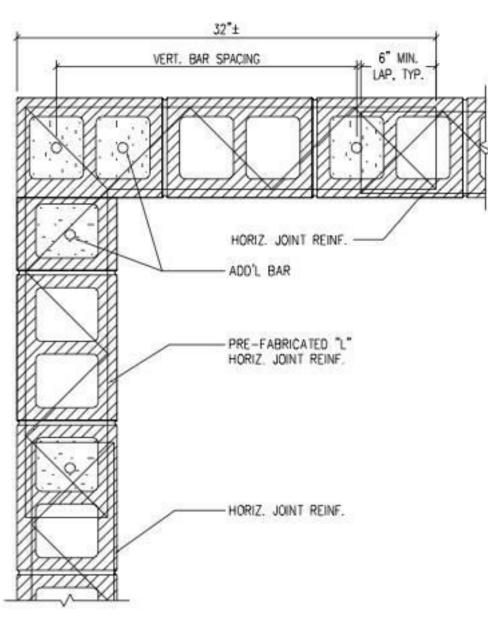




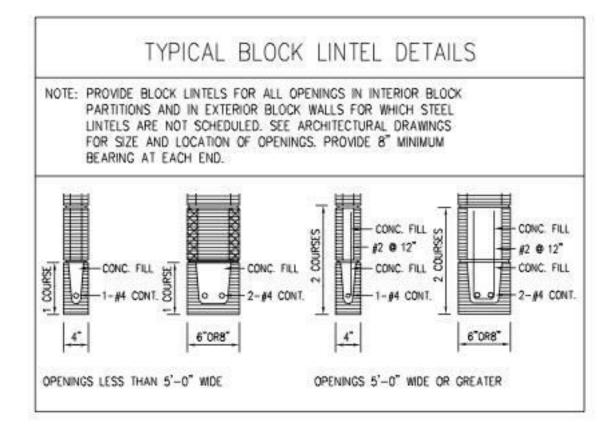




TYP. MASONRY WALL REINFORCING - END OF WALL CONDITION

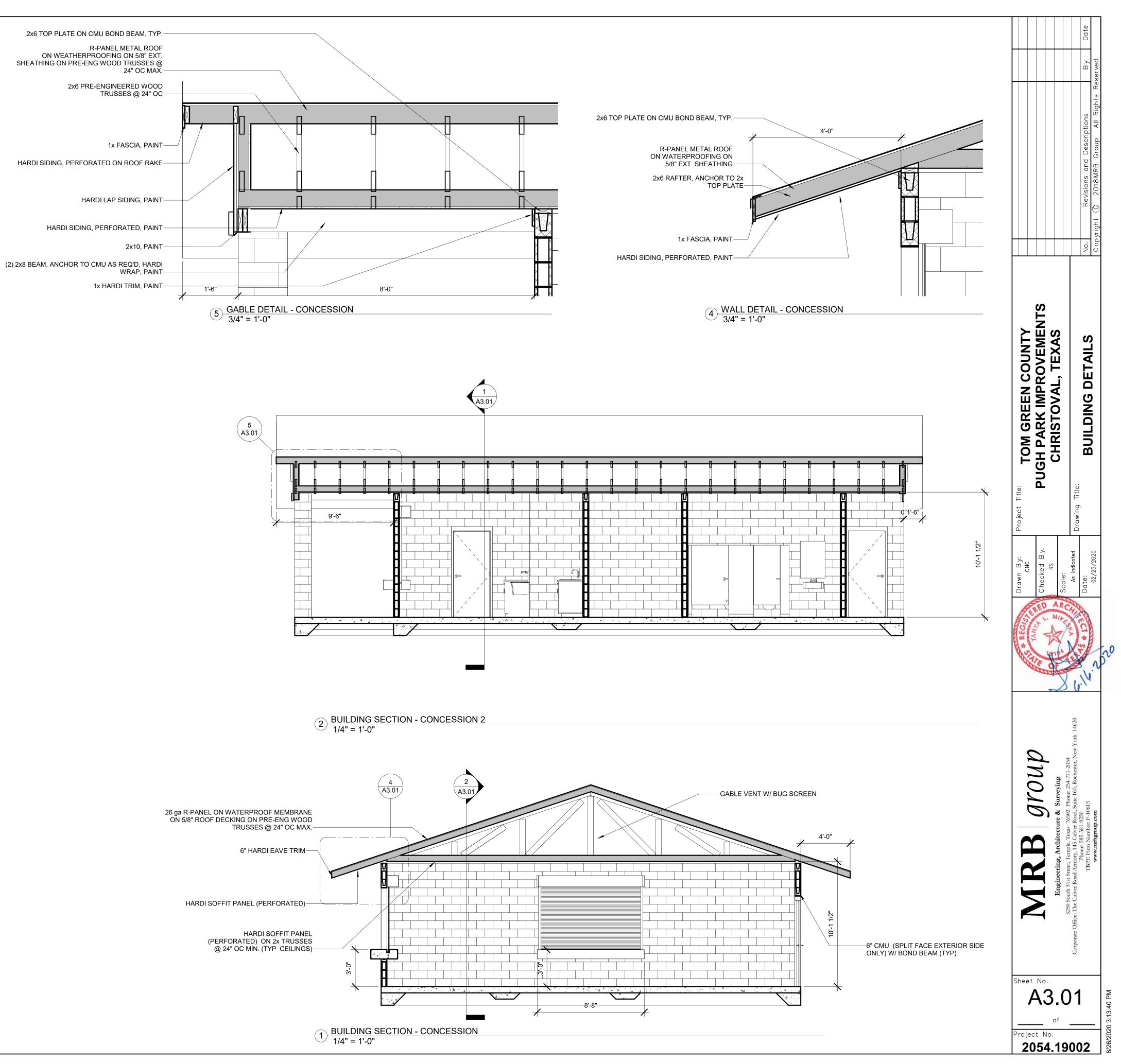


TYP. MASONRY WALL REINFORCING - CORNER CONDITION

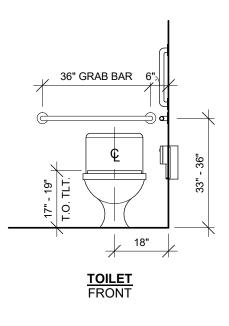


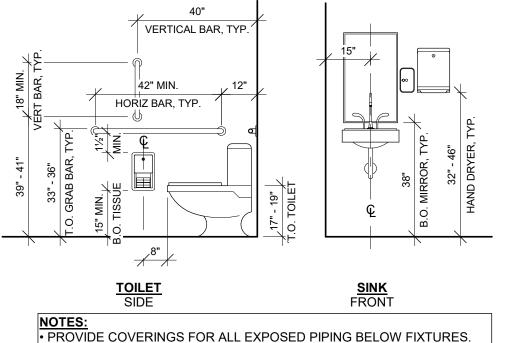
PROVIDED FOR EACH WYTHE	
SIZE	DETAIL
L3-1/2X3-1/2X1/4	L
L4X3-1/3X1/4	L
L5X3-1/2X1/4	L
L6X3-1/2X5/16	L
	L3-1/2X3-1/2X1/4 L4X3-1/3X1/4 L5X3-1/2X1/4

(3) MASONRY WALL DETAILS N.T.S.



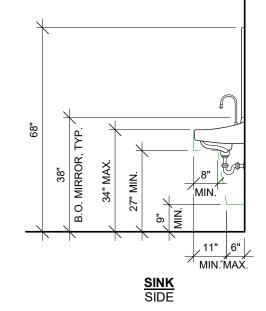
MOUNTING DIMENSIONS FOR PLUMBING FIXTURES AND TOILET ACCESSORIES





• ALL TOILET ROOM ACCESSORIES SHALL BE SELECTED BY OTHERS.

• FINAL LOCATIONS SHALL BE COORDINATED BETWEEN GC & OWNER.



9 MOUNTING HEIGHTS1 3/8" = 1'-0"

FINISH SCHEDULE

ALL PAINTS TO BE SHERWIN WILLIAMS UNLESS OTHERWISE NOTED OR APPROVED EQUIVALENT

WALLS

ALL EXPOSED INTERIOR CMU TO BE SEALED WITH FLAT ACRYLIC LATEX FILLER EQUAL TO KILZ PRO-X P50 AND PAINTED WITH (2) COATS MIN. SEMI-GLOSS PRO INDUSTRIAL PRE CATALYZED WATER BASED EPOXY - COLOR BY ARCHITECT

ALL EXPOSED EXTERIOR CMU TO HAVE (2) COATS CLEAR SEALANT

CEILINGS

CEILINGS TO BE PAINTED SOFFIT PANELS

EXTERIOR OVERHANGS AND EAVES TO BE PAINTED SOFFIT PANELS

TRIM

METAL DOORS AND FRAMES TO BE PAINTED WITH GLOSS WATER BASE ACRYLIC LATEX EQUIVALENT TO ONE COAT OF DTM ACRYLIC PRIMER/FINISH B66W1 (2.5 MILS) AND TWO FINISH COATS DTM ACRYLIC S-6, B66W200 (3.0 MILS EA.) - COLOR BY ARCHITECT

FLOORS

CONCESSIONS, STORAGE ROOM, & RESTROOMS TO BE PRIMED AND COATED WITH 2 COATS (MIN 6 MILS) 8100 WATER BASED EPOXY FLOORING W/ HI-WEAR ADDITIVE - EPOXY FLOORING TO CONTINUE UP PERIMETER BLOCK WALL 8" AFF MIN

REMAINING FLOORS TO BE SEALED WITH A MINIMUM OF TWO COATS OF PENETRATING WATERPROOFING SEALER.

BASE

4" FLAT PORCELAIN TILE BASE @ CABINETRY

CASEWORK

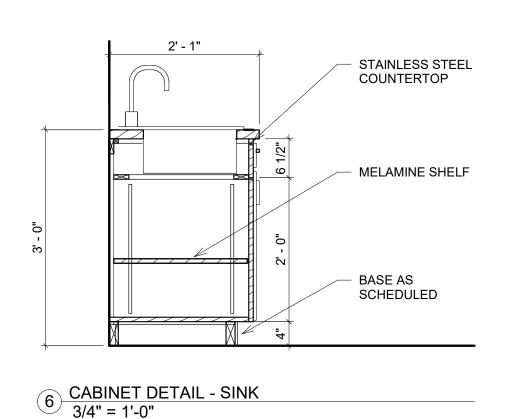
P-LAM BASE CABINET AND DOORS WITH PVC EDGE BANDING AND MELAMINE INTERIORS STAINLESS STEEL COUNTER TOPS

TOILET PARTITIONS

ALL PARTITIONS TO BE FLOOR MOUNTED SOLID PHENOLIC TOILET PARTITIONS - COLOR BY ARCHITECT FROM MANUFACTURER'S FULL RANGE.

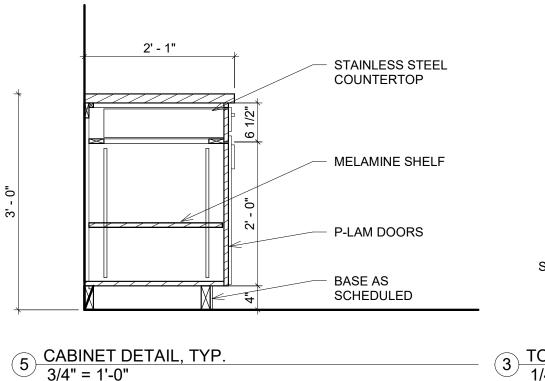
SIGNAGE

ALL SIGNAGE TO BE ADA COMPLIANT. STANDARD SIGNAGE @ EACH RESTROOM (MEN & WOMEN)

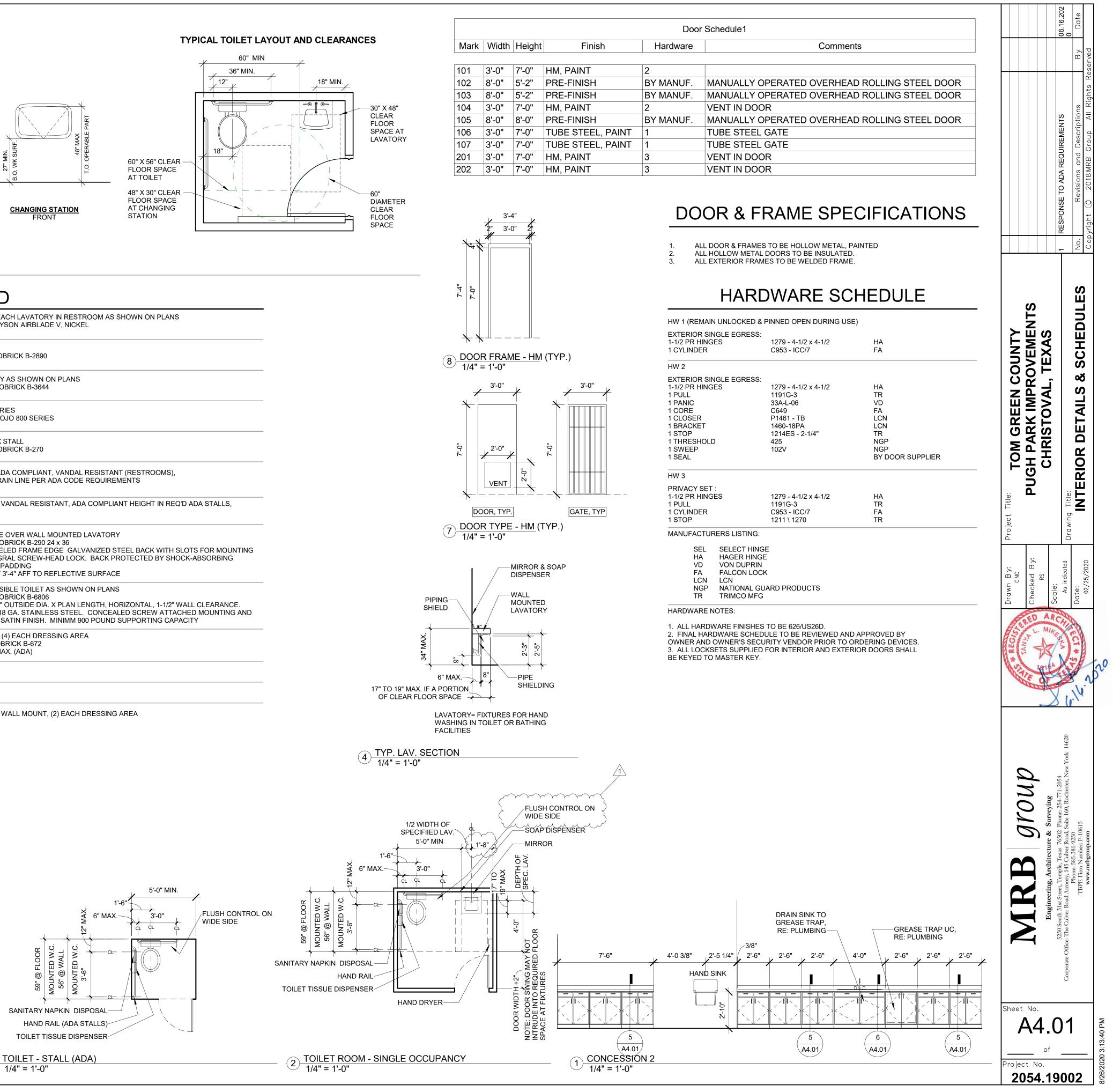


ACCESSORIES LEGEND

A1	HAND DRYER	INSTALL (1) ADJACENT TO EACH LA 1. MODEL NUMBER: DYSON A
A2	TOILET TISSUE DISPENSER	EACH STALL 1. MODEL NUMBER: BOBRICK
A3	TRASH RECEPTACLE RECESSED	INSTALL AT EACH LAVATORY AS SH 1. MODEL NUMBER: BOBRICK
A4	SOAP DISPENSER	INSTALL BETWEEN LAVATORIES 1. MODEL NUMBER: GOJO 80
A5	SANITARY NAPKIN DISPOSAL	EACH WOMAN AND UNI-SEX STALL 1. MODEL NUMBER: BOBRICK
A6	SINK	STAINLESS WALL MOUNT, ADA COI INSULATE HOT WATER & DRAIN LIN RE: PLUMBING
A7	WATER CLOSET	STAINLESS FLOOR MOUNT, VANDA RE: PLUMBING
A8	MIRROR	 INSTALLED BEVELED FRAME OVER 1. MODEL NUMBER: BOBRICK 2. DESCRIPTION: BEVELED FR SCREWS AND INTEGRAL SO WATER-RESISTANT PADDIN 3. INSTALL MIRROR AT 3'-4" AND
A9	36" x 42" GRAB BAR	 INSTALLED IN EACH ACCESSIBLE T MODEL NUMBER: BOBRICK DESCRIPTION: 1-1/2" OUTSI TYPE 304 MINIMUM 18 GA. S ANCHORAGE. NO.4 SATIN F
A10	DOUBLE ROBE HOOK	EACH TOILET STALL/ROOM, (4) EAC 1. MODEL NUMBER BOBRICK 2. MOUNT @ 48" AFF MAX. (AE
A11	TRASH BIN	EACH RESTROOM AREA
A12	CHANGING TABLE	EACH RESTROOM AREA
A13	BENCH	4' LONG X 18" WIDE BENCH, WALL M



/ 3/4" = 1'-0"



1/4" = 1'-0"

DESIGN LOADS

1. GRAVITY LOADS

- DESIGN UNIFORM LIVE LOADS ARE AS LISTED BELOW. LIVE LOAD REDUCTIONS ARE CALCULATED IN ACCORDANCE WITH THE BUILDLING CODE.
- DESIGN UNIFORM SUPERIMPOSED DEAD LOADS ARE IN ADDITION TO THE WEIGHT OF THE BUILDING STRUCTURE.
- DESIGN CONCENTRATED LIVE LOADS ARE NOT COMBINED WITH UNIFORM LIVE LOADS. MECHANICAL ROOMS ARE ESIGNED TO SUPPORT THE EQUIPMENT SHOWN ON THE MECHANICAL DRAWINGS AND SPECIFICATIONS. ANY MODIFICATIONS TO THE SIZE, WEIGHT, OR LOCATION OF EQUIPMENT SHOULD BE SUBMITTED FOR REVIEW OF LOADING PRIOR TO INSTALLATION OF EQUIPMENT

UNIFORM LIVE LOADS

ROOF = 12PSF UNIFORM SUPERIMPOSED DEAD LOADS

= 3 PSF CEILING & MECH + 7 PSF ROOFING ROOF

= N/A

- CONCENTRATED LIVE LOADS ROOF
- = UNIFORM LOAD ONLY OTHER AREAS
- WIND LOADS IN ACCORDANCE WITH I.B.C., BASED ON A WIND SPEED OF 90 MPH AND EXPOSURE CLASS B NET ROOF UPLIFT = 20 PSF TYPICAL
- = 30 PSF WITHIN 10'-0" OF EDGE OR STEP IN ROOF
- SEISMIC LOADS 3. IN ACCORDANCE WITH IBC, ZONE 0 Α.

FOUNDATION

- THESE NOTES APPLY TO ALL FOUNDATIONS AND SLABS ON GRADE DETAILED ON THE STRUCTURAL DRAWINGS,
- UNLESS NOTED OTHERWISE. FOUNDATION DESIGN IS BASED ON THE SOILS REPORT PREPARED BY XXX PROJECT NO. XXX DATED XXX. SUBGRADE PREPARATION UNDER BUILDING SLAB ON GROUND: 3.
 - REMOVE THE UPPERMOST 6" OF SOIL AND STOCKPILE FOR USE ONLY AS TOP SOIL FOR FINAL GRADING. EXCAVATE A MIN. OF 4'-0" FOR PLACEMENT OF SELECT FILL. PLACE A MINIMUM OF FOUR FEET OF SELECT FILL UNDER AND AROUND EACH BUILDING PAD. THE
 - SELECT FILL SHALL BE LAYER COMPACTED IN 8 INCH MAXIMUM LOOSE THICKENSS TO A DRY DENSITY OF NOT LESS THAN 95% OF STANDARD PROCTOR (ASTM D-96) MAXIMUM DRY DENSITY. THE SOIL MOISTURE AT TIME OF COMPACTION SHALL BE WITHIN 3% OF THE MATERIAL'S OPTIMUM MOISTURE CONTENT. PLACE SELECT FILL AS SOON AS POSSIBLE OVER SUBGRADE TO LIMIT MOISTURE LOSS WITHIN THE UNDERLYING SOILS.
 - SELECT FILL SHALL BE A UNIFORMLY BLENDED CLAYEY SAND HAVING A LIQUID LIMIT LESS THAN 30 AND A PLASTICITY INDEX (PI) BETWEEN 4 AND 15.
- UNLESS SPECIFIED OTHERWISE VAPOR BARRIER SHALL CONSIST OF 8 MIL POLYETHYLENE SHEET. TURN DOWN AT GRADE BEAMS AND PIERS. LAP AND SEAL AT ALL JOINTS AND AROUND ALL COLUMNS AND STUB-OUTS. PATCH ALL TEARS PRIOR TO PLACING CONCRETE

REINFORCED CONCRETE

ALL STRUCTURAL CONCRETE SHALL BE OF NORMAL WEIGHT AGGREGATE WITH SPECIFIED PROPERTIES AS 1. FOLLOWS:

GRADE BEAM	28 DAY STRENGTH 4000 PSI 3000 PSI	SLUMP 4" 4"	MAX AGG. 1" 1"
SLABS ON GROUND	3000 PSI	4"	1"

REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRACE 60, U.N.O 2.

- REINFORCING STEEL, SPECIFICALLY NOTED TO BE SHOP OR FIELD WELDED SHALL CONFORM TO ASTM A-706, 3. GRACE 60. WELDING OF OTHER REINFORCING STEEL IS NOT PERMITTED.
- ALL REINFORCING SHALL LAP 36 BAR DIAMETERS AT SPLICES UNLESS NOTED OTHERWISE. HOOK 4. CONTINUOUS BARS AT DISCONTINUOUS ENDS.
- DETAILING OF CONCRETE REINFORCING AND ACCESSORIES SHALL BE IN ACCORDANCE WITH THE LATEST 5. EDITION OF ACI PUBLICATION 315.
- UNLESS NOTED OTHERWISE, CONCRETE PROTECTION FOR REINFORCING SHALL BE AS FOLLOWS: 6. BEAMS AND WALLS ON EARTH = 2" SIDES AND TOP, 3" BOTTOM SLABS ON GROUND = CENTER IN SLAB
- 7. NO HORIZONTAL JOINTS WILL BE PERMITTED IN CONCRETE, EXCEPT WHERE THEY NORMALLY OCCUR OR WHERE NOTED. VERTICAL JOINTS SHALL OCCUR AT O NEAR THE CENTER OF SPANS.

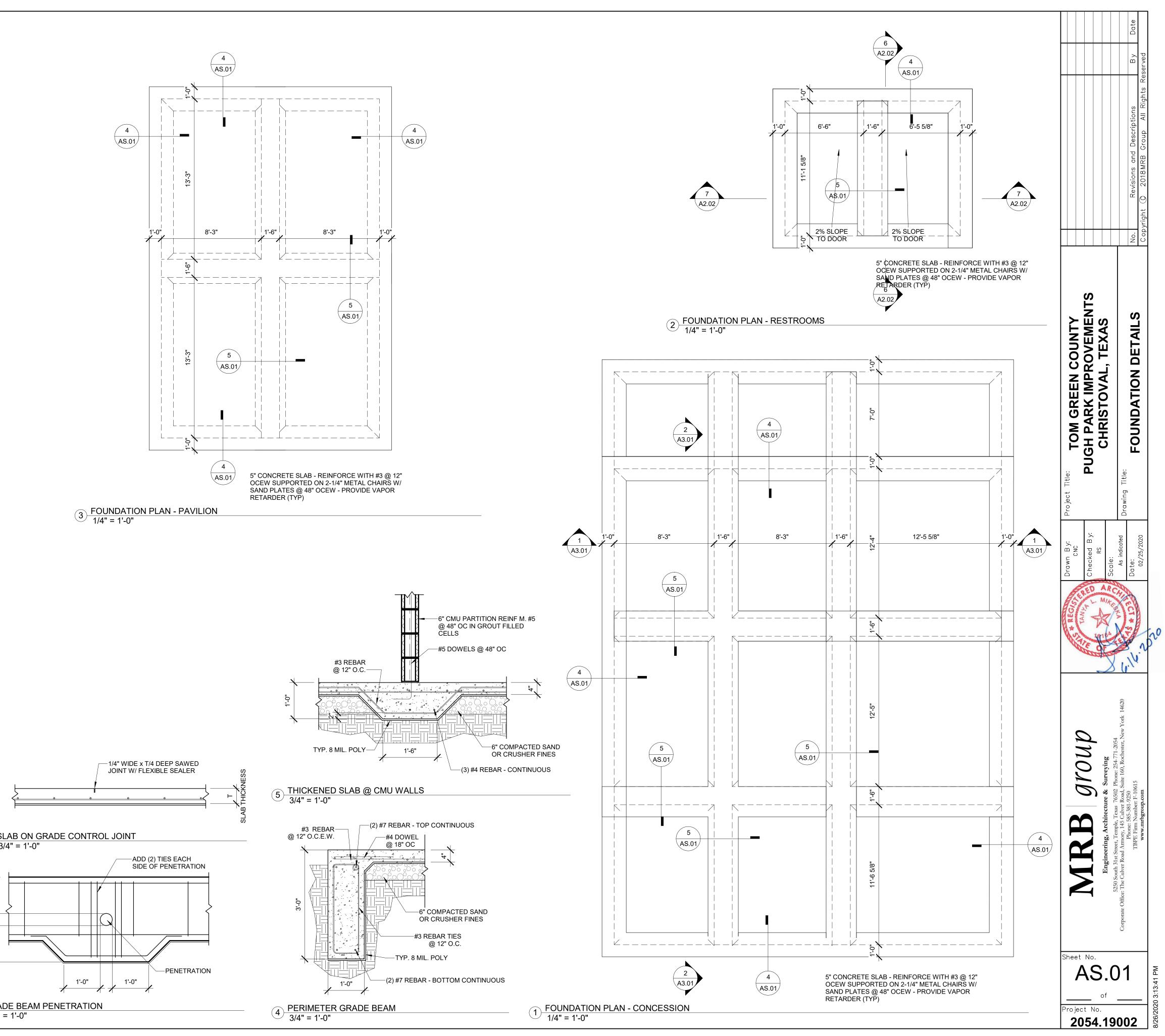
STRUCTURAL STEEL

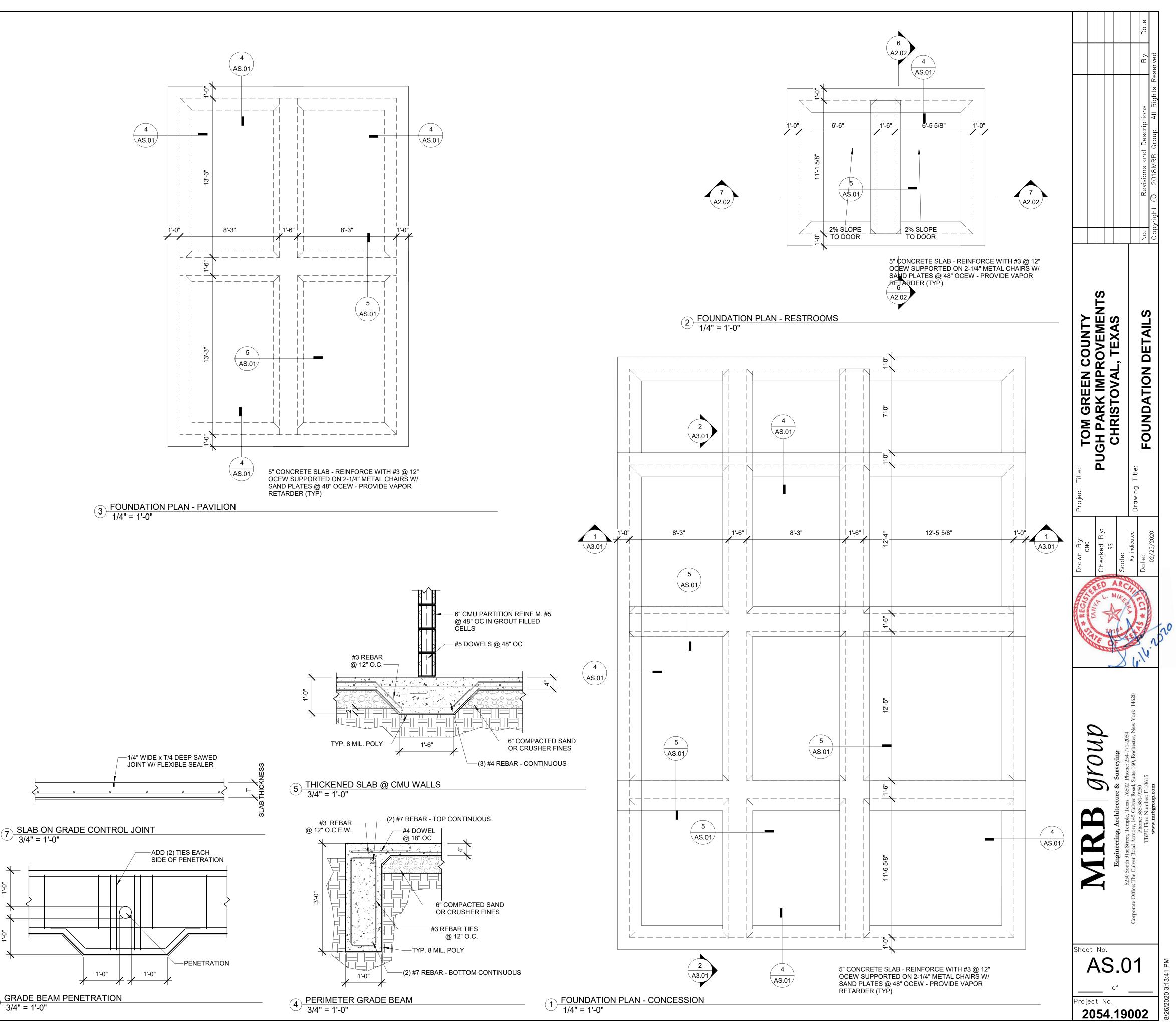
STRUCTURAL SHAPES AND PLATES SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED ON

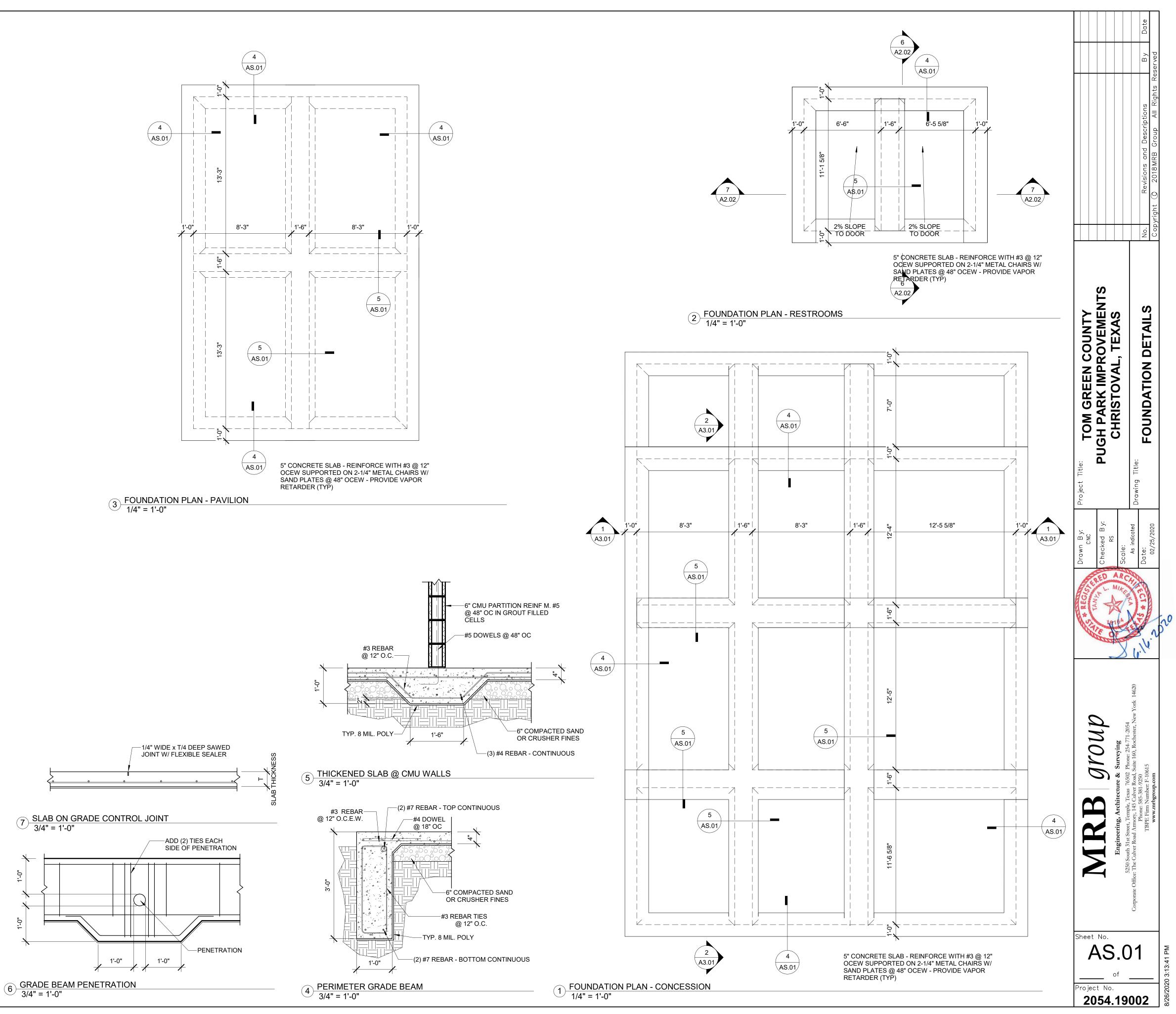
- THE DRAWINGS: ALL WIDE FLANGE BEAMS AND COLUMNS
 - ALL TUBULAR MEMBERS
 - ALL PIP MEMBERS ALL OTHER SHAPES AND PLATES D.
- = ASTM A572, GRADE 50 = ASTM A500, GRADE B = ASTM A53 (TYPE E OR S) GRADE B
- = ASTM A36
- ALL CONNECTION BOLTS FOR STRUCTURAL STEEL MEMBERS SHALL BE 3/4 IN. DIA. CONFORMING TO ASTM A-325. ALL BOLTS SHALL BE TIGHTENED AS SPECIFIED FOR SLIP-CRITICAL CONNECTIONS. CONNECTIONS DESIGNED AS BEARING-TYPE SHALL BE BASED ON THREADS INCLUDED IN THE SHEAR PLANE.
- ALL WELDING SHALL BE DONE IN ACCORDANCE WITH A.W.S. CODE, BY CERTIFIED WELDERS. WELDING 3. ELETRODES SHALL BE E70 XX.
- ALL STRUCTURAL STEEL SHALL HAVE ONE SHOP COAT OF STANDARD IRON OXIDE PRIMER, WITH A MINIMUM 4 DRY FILM THICKNESS OF 1.5 MILS.
- UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL BEAM TO BEAM AND BEAM TO COLUMN 5. CONNECTIONS SHALL BE DESIGNED AS "SIMPLE CONNECTIONS", AND SHALL BE SHOP WELDED AND FIELD BOLTED. SHEAR CONNECTIONS SHALL BE DESIGNED FOR HALF OF THE TOTAL LOAD CAPACITY LISTED ON THE TABLE: "ALLOWABLE LOADS ON BEAMS" OF THE AISC MANUAL OF STEEL CONSTRUCTION - ALLOWABLE STRESS DESIGN.
- SHEAR CONNECTIONS NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED AND DETAILED BY THE STRUCTURAL STEEL FABRICATOR UNDER THE DIRECTSUPERVISION OF A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF TEXAS, USING THE DESIGN PARAMETERS INDICATED ON NOTE NO. 5 ABOVE.
- CONNECTION INDICATED "M.C." ON THE DESIGN DRAWINGS SHALL BE DESIGNED AS MOMENT CONNECTIONS. 7. IF NO DESIGN MOMENT IS NOTED, DESIGN CONNECTION TO RESIST THE FULL MOMENT CAPACITY OF THE MEMBER. SHEAR CONNECTIONS IN MOMENT CONNECTIONS SHALL BE WELDED OR FRICTION-TYPE BOLTED CONNECTIONS ONLY.
- PROVIDE STIFFENERS AT ALL LOCATIONS SHOWN ON DETAILS WHETHER OR NOT THEY ARE REQUIRED BY 8. CALCULATIONS.
- ALL COLUMN BASE PLATES SHALL BE GROUTED IMMEDIATELY AFTER THE FRAME ERECTION IS COMPLETED 9. AND PLUMBED, AND PRIOR TO APPLYING DECKING TO ROOF JOISTS.

GENERAL

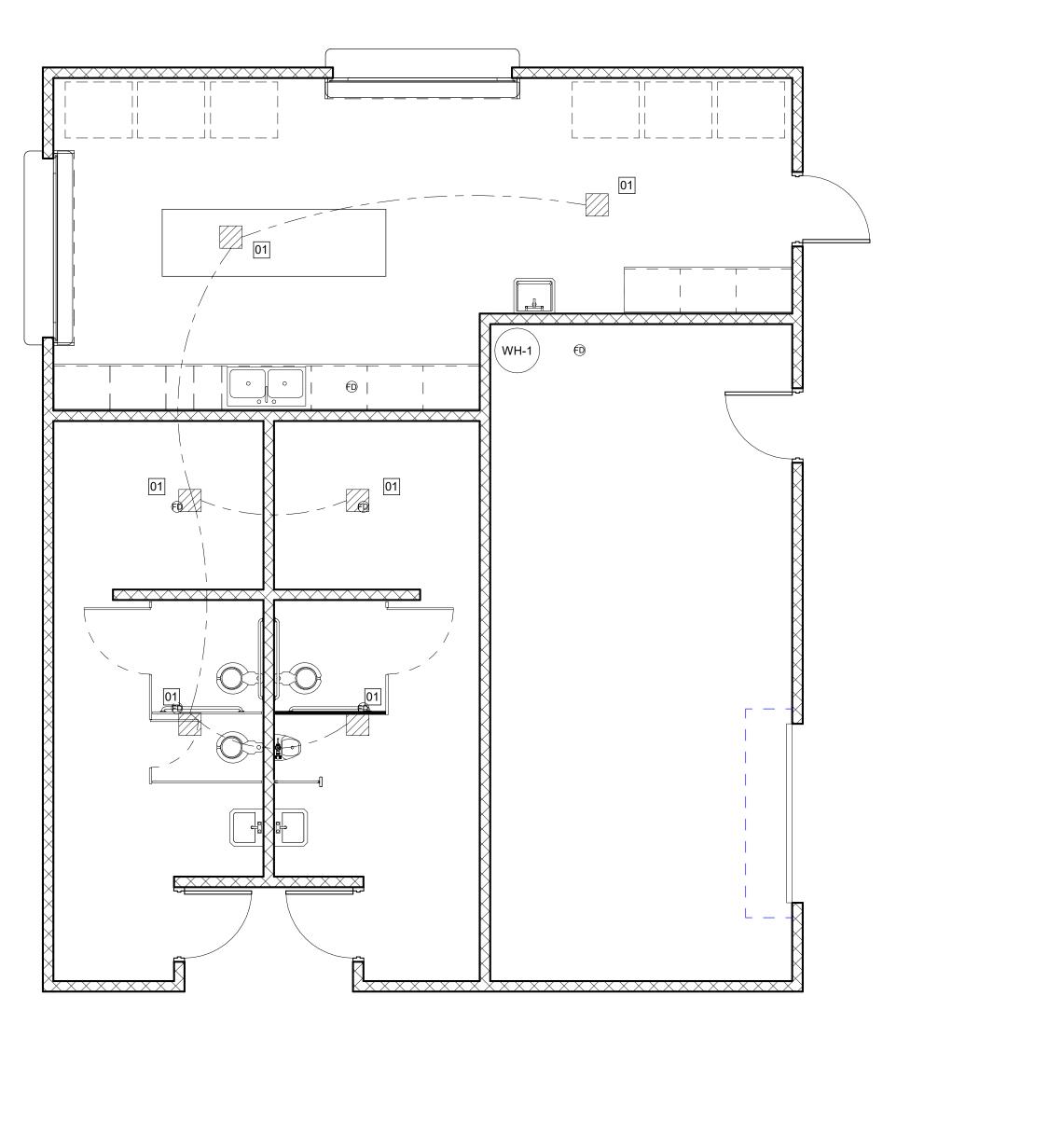
- SEE MECHANICAL DRAWINGS FOR EXACT LOCATION AND SIZES OF SMALL MECHANICAL OPENINGS, SLEEVES, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- 2. REFER TO ARCHITECTURAL DRAWINGS FOR ALL FINISHES, DIMENSIONS OF SLAB DROPS, CHAMFERS, ETC. THE USE OF REPRODUCTIONS OF THE DESIGN STRUCTURAL DRAWINGS FOR SHOP DRAWING PURPOSES IS 3 NOT ACCEPTABLE.
- THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THAT THE NEW STUCTURE WILL NOT 4. CONFLICT WITH ANY EXISTING UTILITIES. IF CONFLICTS ARISE, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND SHALL STOP THE WORK UNTIL AN APPROPRIATE SOLUTION TO THE CONFLICTS ARE FOUND, AND THE CONTRACTOR IS GIVEN WRITTEN AUTHORIZATION TO PROCEED WITH THE WORK.







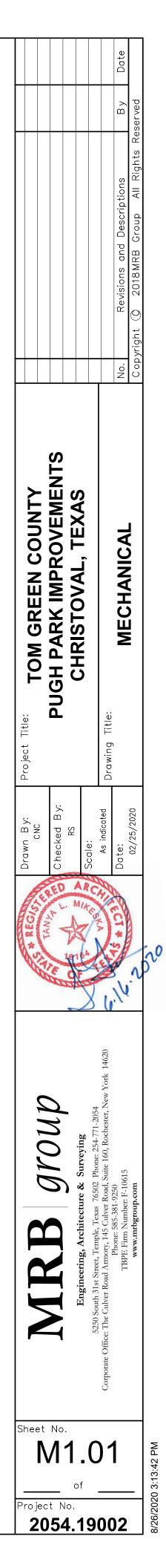
3	FOUNDATIC
ઝ	1/4" = 1'-0"



1 <u>MECHANICAL PLAN - CONCESSION</u> 1/4" = 1'-0"

01

- 1.
- 3.
- 4.
- 5.
 - 6.
 - 7.



KEYED MECHANICAL NOTES

FAN TO BE BROAN L300L IN LINE LOSONE FAN OR APPROVED EQUAL W/ 12X12 WHITE GRILL IN EACH RESTROOM

MECHANICAL NOTES

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STANDARD BUILDING CODE AND ALL LOCAL CODES.

2. ALL AIR CONDITIONING SUPPLY AND RETURN DUCTWORK SHALL BE CONSTRUCTED OF 1" OR 1-1/2" THICK FIBERGLASS DUCTBOARD. DUCTWORK SHALL BE FABRICATED IN ACCORDANCE WITH ALL LOCAL COES, A.S.H.R.A.E., AND SMACNA STANDARDS. MINIMUM INSULATON VALUES AS FOLLOWS: IN ATTIC SPACES (R-6). BETWEEN FLOORS (R-4).

ALLL EXHAUST AND DRYER DUCTWORK SHALL BE CONSTRUCTED OF ZINC COATED GALVANIZED SHEET METAL CONSTRUCTED IN ACCORDANCE WITH LATEST A.S.H.R.A.E. GUIDE AND S.M.A.C.N.A. RECOMMENDATIONS OR TEE FIN METAL FLEXIBLE DUCTWORK.

ALL REFRIGERANT PIPING SHALL BE TYPE 'L' COPPER, TOGETHER WITH WROUGHT COPPER, SOLDER FITTINGS. JOINTS SHALL BE MADE WITH SILVER SOLDER OR 'SILFOSS'. LINE SIES AND ACCESSORIES SHALL BE AS DESIGNED BY UNIT MANUFACTURER FOR THIS INSTALLATION.

FLAME AND SMOKE RATING: ALL INSULATION PRODUCTS USED INSIDE THE BUILDING SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE GENERATION OF 50 IN ACCORDANCE WITH TESTS OUTLINED IN N.F.P.A. 225.

VIBRATION ISOLATION: ALL EQUIPMENT AS PER MANUFACTURER'S RECOMMENDATIONS OR AS SCHEDULED ON DRAWINGS.

FLEXIBLE DUCTWORK SHALL BE ROUND DUCTWORK REINFORCED WITH A WIRE HELIX AND INSULATED WITH 1-1/2" THICK (R-6) FIBERGLASS COVERED WITH A VAPOR BARIOR OF ALUMINUM METALIZED POLYESTER FILM LAMINATED TO GLASS MESH. CONNECTION TO DUCT MAINS SHALL BE MADE WITH FITTINGS PROVIDED WITH TWIST RINGS, BUTTERFLY DAMPERS, QUADRANT OPERATORS, EXTRACTOR AND INSULATION GUARD. DUCTWORK SHALL BE CLASS I, U.I. 181 'WIREMOLD' TYPE 'WK' OR APPROVED EQUAL.

PLUMBING NOTES

- THE CONTRACTOR IS TO VISIT THE SITE PRIOR TO BID TO VAMILIARIZE HIMSELF WITH ALL CONDITIONS AS THEY EXIST. ALL BIDS SHALL TAKE THE EXISTING CONDITIONS INTO CONSIDERSTAION AND THE LACK OF SPECIFIC INFORMATION ON THE DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY. SUBMISSION OF BID INDICATES THE CONTRACTOR'S UNDERSTANDING OF EXISTING CONDITIONS AND HIS WILLINGNESS TO WORK WITH THESE CONDITIONS. NO ADDITIONAL TIME OR MONEY WILL BE ALLOTTED DUE TO THE LACK OF COORDINATION WITH EXISTING CONDITIONS OR OTHER TRADES.
- ALL WORK SHALL COMPLY WITH THE APPLICABLE LOCAL AND STATE CODES 2 AND ORDINANCES. FOLLOW RECOMMENDED PRACTICES AS SET DOWN BY ASME, SMACNA, ASHRAE, NFPA, INTERNATIONAL BUILDING CODE, INTERNATIONAL MECHANICAL CODE, INTERNATIONAL PLUMBING CODE, NATIONAL ELECTRICAL CODE, AGA AND OSHA AS THEY APPLY TO THIS PROJECT, EXCEPT IN CASES WHERE STATUTES GOVERN.
- BEFORE ANY CUTTING OR TRENCHING OPERATIONS BEGIN, VERIFY WITH 3 OWNER'S REPRESENTATIVE, UTILITY COMPANIES, AND OTHER INTERESTED PARTIES THAT ALL AVAILABLE INFORMATION HAS BEEN PROVIDED CONCERNING EXISTING UTILITY LOCATION. VERIFY LOCATIONS GIVEN. CONTACT ARCHITECT IMMEDIATELY UPON UNCOVERING UNKNOWN UTILITIES OFR FURTHER DIRECTION. INDICATE ALL UNCOVERED UTILITIES ON RECORD DRAWINGS
- AFTER WASTEWATER PIPING IS TESTED PER CODE, CONTAT OWNER FOR 4 OBSERVATION OF FLOOR DRAINS TO CHECK FOR PROPER DRAINAGE.
- SEAL AROUND ALL PIPING AT PENETRATIONS THROUGH FIRE WALLS, CEILINGS, AND TUNNELS.
- ALL PIPING SHALL BE NEW UNLESS NOTED OTHERWISE.
- INSULATE ALL ABOVE GROUND WATER PIPING.

PLUMBING CALCS (RESTROOM)

				1		/
FIXTURE	QUANTITY		WATER F.U.		SEWER F.U.	
	NEW	EXISTING	EACH	TOTAL	EACH	TOTAL
WC	2	-	6	12	5	10
LAV (SINGLE)	2	-	1	2	2	4
DF	2	-	.5	1	.5	1
TOTALS	///////	///////////////////////////////////////		15		15

PLUMBING CALCS (CONCESSION)

FIXTURE	QUANTITY		WATER F.U.		SEWER F.U.	
	NEW	EXISTING	EACH	TOTAL	EACH	TOTA
WC	3	-	6	18	5	15
UR	1	-	5	5	4	4
LAV (SINGLE)	2	-	1	2	2	4
HANDWASH	2	-	1.5	3	2	4
SINK (DOUBLE)	2	-	1.5	3	2	4
DF	2	-	.5	1	.5	1
TOTALS	///////	///////////////////////////////////////	////////	32	///////	32
			•		•	

SHOCK ARRESTOR SCHEDULE

PDI SYMBOL	FIXTURE UNITS	CHAMBER LENGTH	SWEAT CONNECTION
А	1-11	9-5/8"	1/2"
В	22-32	11-3/4"	3/4"
С	33-60	14-11/16"	1"
D	61-113	12-3/8"	1"
E	114-154	15-3/8"	1"
F	155-330	17-3/8"	1"

0"

PLUMBING LEGEND

WC-1	WATER CLOSET (T.A.S. COMPLIANT FOR ADULTS)	DESCRIPTION:	FLOOR MOUNTED, STAINLESS STEEL, ELONGATED SEAT, VANDAL RESISTANT FLUSH TRIP LEVER LOCATED ON THE WIDE SIDE OF THE TOILET PER T.A.S.
		ROUGH-IN:	4" WASTE, 2" VENT, 1/2" COLD WATER
WC-2	WATER CLOSET	DESCRIPTION: ROUGH-IN:	FLOOR MOUNTED, STAINLESS STEEL, ELONGATED SEAT, VANDAL RESISTANT 4" WASTE, 2" VENT, 1/2" COLD WATER
UR-1	URINAL (T.A.S. COMPLIANT FOR ADULTS)	DESCRIPTION: ROUGH-IN:	WALL HUNG, STAINLESS STEEL, INTEGRAL TRAP, VANDAL RESISTANT 2" WASTE, 2" VENT, 3/4" COLD WATER
L-1	LAVATORY (T.A.S. COMPLIANT FOR ADULTS)		WALL HUNG, STAINLESS STEEL, VANDAL RESISTANT, MIXING VALVE TO TEMPER HOT WATER SUPPLY TO 120° F MAX.
		ROUGH-IN:	2" WASTE, 2" VENT, 1/2" COLD WATER
SK-1	SINK (T.A.S. COMPLIANT FOR ADULTS)	DESCRIPTION:	COUNTER MOUNTED, SELF-RIMMING, 18 GA. STAINLESS STEEL, 33" x 22" x 11" DEEP, DOUBLE COMPARTMENT
	(T.A.S. COMPLIANT FOR ADOLTS)	ROUGH-IN:	2" WASTE, 2" VENT, 1/2" HOT & COLD WATER
SK-2		DESCRIPTION:	WALL HUNG, STAINLESS STEEL W/ REAR SPLASH, MIXING VALVE TO TEMPER
	(T.A.S. COMPLIANT FOR ADULTS)	ROUGH-IN:	HOT WATER SUPPLY TO 120° F MAX. 2" WASTE, 2" VENT, 1/2" HOT & COLD WATER
FS-1	FLOOR SINK	DESCRIPTION:	BOTTOM OUTLET, CAST IRON BODY, 12" SQUARE
FD-1	FLOOR DRAIN	DESCRIPTION:	BOTTOM OUTLET CAST IRON BODY, ADJUSTABLE 6" DIAMETER STAINLESS STEEL DTRAINER WITH VANDAL PROOF SCREWS
DF-1	DRINKING FOUNTAIN (T.A.S. COMPLIANT FOR ADULTS)	DESCRIPTION: ROUGH-IN:	HI-LO WITH DOG BOWL, HALSEY TAYLOR 4420DB OR EQUAL 2" WASTE, 2" VENT, 1/2" COLD WATER
HY-1	WALL HYDRANT		CONCEALED BOX TYPE, NON-FREEZE, 3/4" MALE HOSE THREAD OUTLET, LOCKING HINGE COVER
		ROUGH-IN:	3/4" COLD WATER, INSTALL W/ BOTTOM OF BOX AT 24" AFF
WCO	WALL CLEAN-OUT	DESCRIPTION:	CAST IRON CLEANOUT FERRULE WITH BRONZE RAISED HEAD PLUG AND ROUND STAINLESS STEEL COVER PLATE WITH CENTER SECURING SCREW
FCO	FLOOR CLEAN-OUT	CONBINED ACC	CAST IRON BODY WITH SECONDARY O-RING TEST SEAL AND ADJUSTABLE CESS COVER/PLUG TOP ASSEMBLY WITH PRIMARY GASKET SEAL, AND ROUND CKEL BRONZE COVER
ECO	EXTERIOR CLEAN-OUT	AND ADJUSTAE SEAL AND ROU	CLEANOUT TO GRADE, CAST IRON BODY WITH SECONDARY O-RING TEST SEAL BLE COMBINED ACCESS COVER/PLUG TOP ASSEMBLY WITH PRIMARY GASKET IND SCORIATED VANDAL RESISTAND DUCTILE IRON TRACTOR TYPE COVER. IF SPHALT OR DIRT PROVIDE 18" x 18" x 12" CONCRETE PAD
WH-1	WATER HEATER - ELECTRIC		M, MODEL ELD40, 40 GAL OR EQUAL TEMPERATURE SHALL BE SET AT 140° F
GT-1	GREASE TRAP	ZURN GT2700-2	25 GREASE TRAP RATED AT 24 GPM, 50LB CAPACITY OR EQUAL
RP-1	BACKFLOW PREVENTER		9 BACKFLOW PREVENTOR OR EQUAL TO FLOOW DRAIN BELOW. INSTALL DEVICE ON WALL PER ACCESSIBILITY CODE

NOTES

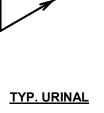
REF. ARCHITECTURAL DRAWINGS FOR ALL HEIGHT REQUIREMENTS

CONTRACTOR TO PROVIDE ALL NECESSARY SUPPLIES, FLUSH VALVES, FAUCETS, STRAINERS, P-TRAPS, SEALS, & CARRIERS AS REQUIRED PER PLUMBING FIXTURE. PROVIDE SPEEDWAY STR-1715A OR STCR-1915A STOPS AND 17 GAUGE CHROME PLATED BRASS FIXTURE P-TRAPS FOR ALL SINKS, LAVATORIES, AND DRINKING FOUNTAINS UNLESS NOTED OTHERWISE ALL LAVATORIES AND SINKS SHALL BE SUPPLIED WITH HOT AND COLD WATER TO FAUCETS AS INDICATED ON PLANS AND FIXTURE

SCHEDULE. PROVIDE MCGUIRE PROWRAP INSULATION KITS ON ALL LAVATORIES AND SINKS REQUIRED TO BE T.A.S. COMPLIANT. ALL SUCH

FIXTURES AND FINAL INSTALLATIONS SHALL COMPLY WITH THE STATE ACCESSIBILITY STANDARDS REQUIREMENTS. INSERT TRAP GUARDS AFTER FINAL RODDING OF DRAINS. INSTALL TRAP GUARD WITH CLEAR SILICONE CAULK FOR GAS-TIGHT SEAL.

FOR DRAIN RODDING AFTER INSTALLATION, INSERT SEWER TAPE THROUGH LIGHTLY GREASED 1 1/2" PVC PIPE TO PROTECT TRAP GUARD. PROVIDE SHOCK ARRESTORS IN WATER PIPING SYSTEM



TYP. URINAL

FIXTURE UNIT LOADING SCHEDULE

MAXIMUM FIXTURE UNIT LOADING OF WATER, DRAIN, & VENT PIPING

5

-

10 20

NOMINAL PIPE SIZE - INCHES

45

120

16 **

8 **

24

140 250

32 ** 48

14 ** 35

84

256

256

220

48

1/2 3/4 1 1-1/4 1-1/2 2 2-1/2 3 4

16

50

2 *

8 **

1

10

30

NOTE: THIS SCHEDULE SHALL BE USED TO SIZE PIPING NOT SHOWN ON DRAWINGS, REFER ALSO TO LATEST EDITION OF INTERNATIONAL PLUMBING CODE FOR REQUIREMENTS NOT COVERED IN SCHEDULE, ON PLANS, OR IN SPECIFICATIONS. WHERE INTERNATIONAL PLUMBING CODE DIFFERS FROM THE CONTRACT DOCUMENTS, THE MOST STRINGENT REQUIREMENT SHALL GOVERN

EXCEPT SINKS, URINALS, & DISHWASHERS

WATER (SERVING FLUSH FALVES)

WATER (NO FLUSH VALVES)

DRAINAGE (VERTICAL)

DRAINAGE (HORIZONTAL)

EXCEPT SIX-UNIT TRAPS OR WATER CLOSETS

**** VERTICAL ONLY

FIXTURE

VENT

FIXTURE UNIT CHART & CONNECTION SIZE

ABBR	FIXTURE	NOMINAL PIPE SIZE - INCHES			FIXTURE CONNECTIONS *			
		COLD WATER	HOT WATER	DRAIN & VENT	WATER **	DRAINAGE	VENT	
WC	WATER CLOSET (FV)	5	-	4	1 ***	4	2	
UR	URINAL (FV)	4	-	4	3/4 ***	2	1-1/2	
LAV	LAVATORY (IN SETS)	1	1	2	1/2	1-1/2	1-1/2	
SK	SINK							
DF	DRINKING FOUNTAIN	1	-	1	1/2	1-1/2	1-1/4	

NOTE:

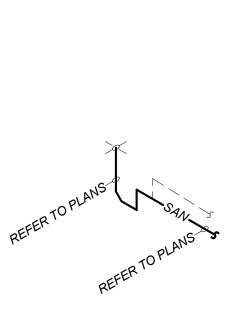
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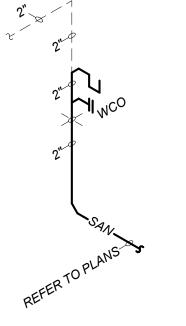
THIS SCHEDULE SHALL BE USED TO SIZE BRANCH PIPING NOT SHOWN ON DRAWINGS, REFER ALSO TO LATEST EDITION OF INTERNATIONAL PLUMBING CODE FOR REQUIREMENTS NOT COVERED IN SCHEDULE, ON PLANS, OR IN SPECIFICATIONS. WHERE INTERNATIONAL PLUMBING CODE DIFFERS FROM THE CONTRACT DOCUMENTS, THE MOST STRINGENT REQUIREMENT SHALL GOVERN.

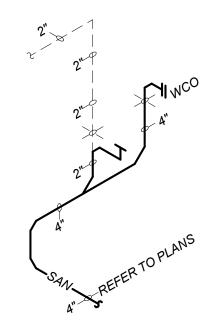
FIXTURE CONNECTIONS ARE LISTED AS (I.D.) NOMINAL PIPE SIZE - INCHES

SIZE TO "DROP EAR" ELBOW OR SIMILAR FITTING

*** INCREASE ONE PIPE SIZE IF TOTAL DEVELOPED LENGTH EXCEEDS 12'



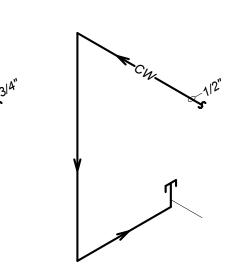


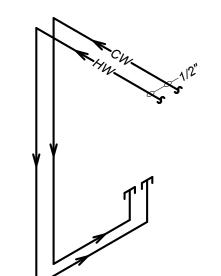


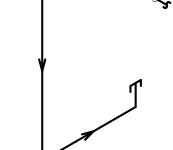
TYP. FLOOR DRAIN/SINK

<u>TYP. SINK/LAV/</u> DRINKING FOUNTAIN

TYP. WATER CLOSET

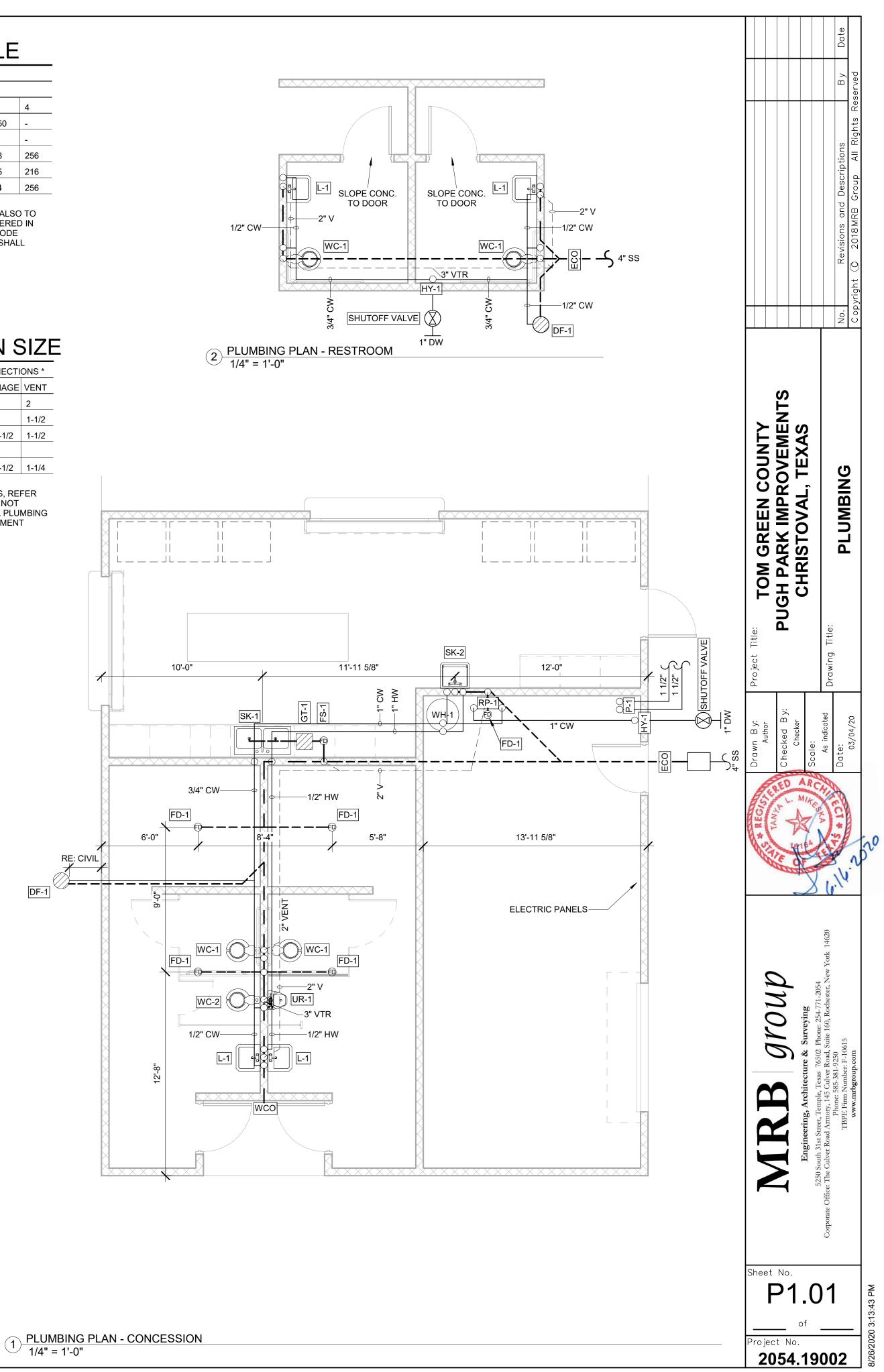






TYPICAL WASTE AND VENT RISERS

1/4" = 1'-0"



ELECTRICAL SYMBOL LEGEND

NOT	ALL	SYMBOLS	SHOWN	MAY	BE	USED

WIRING	DEVICES
SYMBOL	DESCRIPTION
$-\!$	2 POLE, 3 WIRE, 125V. SINGLE RECEPTACLE
\Rightarrow	2 POLE, 3 WIRE, 125V. DUPLEX RECEPTACLE, MOUNT 18" AFF. UON
AF D	2 POLE, 3 WIRE, 125V. DUPLEX ARC FAULT RECEPTACLE
	2 POLE, 3 WIRE, 125V. ISOLATED GROUND, ORANGE DUPLEX RECEPTACLE
WP	2 POLE, 3 WIRE, 125V. WEATHERPROOF DUPLEX RECEPTACLE
− ∯	2 POLE, 3 WIRE, 125V. QUADRUPLEX RECEPTACLE
₽ _₽ ₽ _₽ ₽₽₽ ₽	2 POLE, 3 WIRE, 125V. DEDICATED DUPLEX RECEPTACLE
	SINGLE RECEPTACLE: 50A, 250V, 1ø, HUBBELL #9367 NEMA 6-50R
٨	SINGLE RECEPTACLE: 50A, 120V, 1ø, HUBBELL #9360 NEMA 5–50R
\ominus	TWIST LOCK RECEPTACLE: 20A, 120V, 1ø, HUBBELL #2310 NEMA L5–20R
\bigcirc	TWIST LOCK RECEPTACLE: 20A, 120V, 1ø, HUBBELL #2310 NEMA L5–20R
\bigcirc	TWIST LOCK RECEPTACLE: 30A, 250V, 1ø, HUBBELL #2620 NEMA L6–30R
\ominus	TWIST LOCK RECEPTACLE: 20A, 250V, 1ø, HUBBELL #2320 NEMA L6–20R
\bigcirc	SPECIAL PURPOSE RECEPTACLE
Θ	SINGLE FLOOR RECEPTACLE
Φ	QUADRUPLEX FLOOR RECEPTACLE
\bigcirc	DUPLEX FLOOR RECEPTACLE
	POWER POLE OR TELEPOWER POLE
<u>CONDUI</u>	<u>T & WIRING</u>
<u>SYMBOL</u>	DESCRIPTION

OTMOOL	
~ +►	HOME RUN W/HOT, NEUTRAL AND GROUND
→ ≻	HOME RUN W/ 2 HOT AND GROUND
→ ≻	HOME RUN W/ 3 HOT AND GROUND
~ -	HOME RUN W/ 2 HOT, NEUTRAL AND GROUND
~! +	HOME RUN W/ 3 HOT, NEUTRAL AND GROUND
— UG —	UNDERGROUND GROUND
— UE —	UNDERGROUND ELECTRIC
— 0E —	OVERHEAD ELECTRIC
— UT —	UNDERGROUND TELEPHONE
•	THERMAL WELD GROUND CONNECTION
	MECHANICAL GROUND CONNECTION

DISTRIBUTION & CONTROLS

<u>SYMBOL</u>	DESCRIPTION
	PANELBOARD
\square	TRANSFORMER
머	DISCONNECT SWITCH (AMPERAGE/POLES/FUSE SIZE/NEMA)
\bowtie	COMBINATION MAGNETIC STARTER (AMPERAGE/POLES/TRIP/STARTER SIZE/NEMA)
\boxtimes	MAGNETIC STARTER (AMPERAGE/POLES/TRIP/STARTER SIZE/NEMA)
\$ ^M	MOTOR RATED SWITCH WITH THERMAL OVERLOADS
\bigcirc	JUNCTION BOX
	JUNCTION BOX, 28VDC
	JUNCTION BOX, 400HZ
•	PUSH-BUTTON
Ø	EQUIPMENT CONNECTION
PC	PHOTO ELECTRIC CONTROL
С	CONTACTOR
TC	TIME CLOCK
MS	MOTION DETECTOR, IR=INFRARED
	CONTROL PANEL
PFC	POWER FACTOR CAPACITOR
VFD	VARIABLE FREQUENCY DRIVE
DS	OCCUPANCY SENSOR

<u>COMMUNICATIONS</u>

<u>SYMBOL</u>	DESCRIPTION
\checkmark	TELEPHONE OUTLET WALL MOUNTED
	TELEPHONE OUTLET FLOOR MOUNTED
$\mathbf{\Lambda}$	COMBINATION DATA AND TELEPHONE OUTLET
\bigtriangledown	DATA OUTLET WALL MOUNTED
\square	DATA OUTLET FLOOR MOUNTED
S	SPEAKER CEILING MOUNTED
нS	SPEAKER WALL MOUNTED
M	MICROPHONE
(M)	MICROPHONE FLOOR OUTLET
\bigotimes	VOLUME CONTROL
√ıc	INTERCOM OUTLET
·/////////////////////////////////////	TELEPHONE BACKBOARD

<u>LIGHTING</u>	
SYMBOL	DESCRIPTION
0	EXISTING 2X4 FIXTURE TO REMAIN AND BE RE-USED
	REMOVE AND RELOCATE 2X4 FIXTURE, REFER TO LIGHTING RELOCATED FIXTURES.
0	NEW 2X4 LIGHTING FIXTURE
OR	RELOCATED 2X4 LIGHTING FIXTURE
	HATCH INDICATES NON SWITCHED/EMERGENCY BATTERY PA
o	1X4 LIGHTING FIXTURE
	STRIP LIGHT
	SURFACE MOUNTED LIGHTING FIXTURE
Q	WALL MOUNTED LIGHTING FIXTURE
	RECESSED LIGHTING FIXTURE
	RECESSED WALL WASH LIGHTING FIXTURE
	EMERGENCY LIGHTING FIXTURE W/2 HEADS
\otimes	SINGLE FACE CEILING-MOUNTED EXIT SIGN
$\mathbf{\nabla}$	SINGLE FACE WALL-MOUNTED EXIT SIGN
† €†	DOUBLE-FACE CEILING-MOUNTED EXIT SIGN ARROWS AS II PLAN
t₽t	DOUBLE-FACE WALL-MOUNTED EXIT SIGN ARROWS AS IND PLAN
	POLE MOUNTED SITE LIGHT
\$	SINGLE POLE, SINGLE THROW SWITCH, MOUNT 48" AFF. U
\$2	DOUBLE POLE, SINGLE THROW SWITCH, MOUNT 48" AFF. U
\$3	SINGLE POLE, DOUBLE THROW 3-WAY SWITCH, MOUNT 48
\$4	DOUBLE POLE, DOUBLE THROW 4-WAY SWITCH, MOUNT 48
\$FS	FAN SPEED CONTROL RHEOSTAT, MOUNT 48" AFF. UON
\$ĸ	KEY OPERATED SWITCH, MOUNT 48" AFF. UON
\$P	SINGLE POLE, SINGLE THROW SWITCH W/PILOT LIGHT, MOUUON
\$т	INTERVAL TIMER SWITCH, MOUNT 48" AFF. UON
\$D	DIMMER SWITCH, 6=600W, 10=1000W, 15=1500W, 20=20 48" AFF. UON
\$os	OCCUPANCY SENSOR SWITCH, MOUNT 48" AFF. UON
\$lv	LOCAL ROOM CONTROL FOR DIMMING AND/OR LIGHTING CO

FIRE ALARM

LIGHTING CONTACTOR

LC

<u>FIRE_ALARM</u>					
SYMBOL	DESCRIPTION				
F	FIRE ALARM PULL STATION				
ΕŊ	FIRE ALARM AUDIO/VISUAL				
\lor	FIRE ALARM VISUAL				
FÞ	FIRE ALARM BELL AND FLASHING LIGHT				
E	FIRE ALARM AUDIO/VISUAL CEILING MOUNT				
Щ	FIRE ALARM HORN				
SD	SMOKE DETECTOR				
SD _D	DUCT SMOKE DETECTOR				
(D)120V	120V SMOKE DETECTOR				
	HEAT DETECTOR				
FACP	FIRE ALARM CONTROL PANEL				
FAA	FIRE ALARM ANNUNCIATOR				
MAG	MAGNETIC DOOR HOLDER				
FSD	FIRE SMOKE DAMPER				
\mathbb{W}	SPRINKLER SYSTEM WATER FLOW SWITCH				
T	SPRINKLER SYSTEM TAMPER SWITCH				
<u>SPECIAL</u>	<u>SYSTEMS</u>				
SYMBOL	DESCRIPTION				
	DESCRIPTION TELEVISION OUTLET				
∑tv					
∨⊺∨ ⊠⊺∨	TELEVISION OUTLET				
∨т∨ ⊠т∨ \\$	TELEVISION OUTLET TELEVISION FLOOR OUTLET				
∨τν ⊠τ∨ ⊗m F© c∎	TELEVISION OUTLET TELEVISION FLOOR OUTLET CAMERA MONITOR OUTLET				
∨т∨ ⊠т∨ \\$	TELEVISION OUTLET TELEVISION FLOOR OUTLET CAMERA MONITOR OUTLET CLOCK WALL MOUNTED				
∨τν ⊠τ∨ ⊗m F© c∎	TELEVISION OUTLET TELEVISION FLOOR OUTLET CAMERA MONITOR OUTLET CLOCK WALL MOUNTED CLOCK RECEPTACLE				
VT V M C C C C M C M C M C M C M C M C M C	TELEVISION OUTLET TELEVISION FLOOR OUTLET CAMERA MONITOR OUTLET CLOCK WALL MOUNTED CLOCK RECEPTACLE MASTER CLOCK AND PROGRAM CONTROL OUTLET				
N N N N N N N N N N N N N N N N N N N	TELEVISION OUTLET TELEVISION FLOOR OUTLET CAMERA MONITOR OUTLET CLOCK WALL MOUNTED CLOCK RECEPTACLE MASTER CLOCK AND PROGRAM CONTROL OUTLET BELL				
N N N N N N N N N N N N N N N N N N N	TELEVISION OUTLET TELEVISION FLOOR OUTLET CAMERA MONITOR OUTLET CLOCK WALL MOUNTED CLOCK RECEPTACLE MASTER CLOCK AND PROGRAM CONTROL OUTLET BELL BUZZER				
N N N N N N N N N N N N N N N N N N N	TELEVISION OUTLET TELEVISION FLOOR OUTLET CAMERA MONITOR OUTLET CLOCK WALL MOUNTED CLOCK RECEPTACLE MASTER CLOCK AND PROGRAM CONTROL OUTLET BELL BUZZER THERMOSTAT				
∇TV N N N N N N N N N N N N N	TELEVISION OUTLET TELEVISION FLOOR OUTLET CAMERA MONITOR OUTLET CLOCK WALL MOUNTED CLOCK RECEPTACLE MASTER CLOCK AND PROGRAM CONTROL OUTLET BELL BUZZER THERMOSTAT PRESET RECALL STATION				
N N N N N N N N N N N N N N N N N N N	TELEVISION OUTLET TELEVISION FLOOR OUTLET CAMERA MONITOR OUTLET CLOCK WALL MOUNTED CLOCK RECEPTACLE MASTER CLOCK AND PROGRAM CONTROL OUTLET BELL BUZZER THERMOSTAT PRESET RECALL STATION ELECTROSTATIC DISCHARGE GROUND				
Note: State in the state in	TELEVISION OUTLET TELEVISION FLOOR OUTLET CAMERA MONITOR OUTLET CLOCK WALL MOUNTED CLOCK RECEPTACLE MASTER CLOCK AND PROGRAM CONTROL OUTLET BELL BUZZER THERMOSTAT PRESET RECALL STATION ELECTROSTATIC DISCHARGE GROUND ELECTRONIC KEY PAD ELECTRONIC REMOTE DOOR BELL ELECTRONIC CARD READER				
N N N N N N N N N N N N N N N N N N N	TELEVISION OUTLET TELEVISION FLOOR OUTLET CAMERA MONITOR OUTLET CLOCK WALL MOUNTED CLOCK RECEPTACLE MASTER CLOCK AND PROGRAM CONTROL OUTLET BELL BUZZER THERMOSTAT PRESET RECALL STATION ELECTROSTATIC DISCHARGE GROUND ELECTRONIC KEY PAD ELECTRONIC REMOTE DOOR BELL ELECTRONIC CARD READER CLOSED CIRCUIT SECURITY CAMERA				
Not the second seco	TELEVISION OUTLET TELEVISION FLOOR OUTLET CAMERA MONITOR OUTLET CLOCK WALL MOUNTED CLOCK RECEPTACLE MASTER CLOCK AND PROGRAM CONTROL OUTLET BELL BUZZER THERMOSTAT PRESET RECALL STATION ELECTROSTATIC DISCHARGE GROUND ELECTRONIC KEY PAD ELECTRONIC REMOTE DOOR BELL ELECTRONIC CARD READER CLOSED CIRCUIT SECURITY CAMERA MOTOR, 10 HORSEPOWER SHOWN				
ŚĠ⋜IJਜ਼ਜ਼ਜ਼ਸ਼ੑੑਗ਼ੑੑਗ਼ੑੵੑੑੵੑੑੑੑੑੑੑੑੑੑੑੑੑ ਫ਼ਫ਼	TELEVISION OUTLET TELEVISION FLOOR OUTLET CAMERA MONITOR OUTLET CLOCK WALL MOUNTED CLOCK RECEPTACLE MASTER CLOCK AND PROGRAM CONTROL OUTLET BELL BUZZER THERMOSTAT PRESET RECALL STATION ELECTROSTATIC DISCHARGE GROUND ELECTRONIC KEY PAD ELECTRONIC REMOTE DOOR BELL ELECTRONIC CARD READER CLOSED CIRCUIT SECURITY CAMERA MOTOR, 10 HORSEPOWER SHOWN DATA OUTLET FURNITURE WHIP				
Not the second seco	TELEVISION OUTLET TELEVISION FLOOR OUTLET CAMERA MONITOR OUTLET CLOCK WALL MOUNTED CLOCK RECEPTACLE MASTER CLOCK AND PROGRAM CONTROL OUTLET BELL BUZZER THERMOSTAT PRESET RECALL STATION ELECTROSTATIC DISCHARGE GROUND ELECTRONIC KEY PAD ELECTRONIC REMOTE DOOR BELL ELECTRONIC CARD READER CLOSED CIRCUIT SECURITY CAMERA MOTOR, 10 HORSEPOWER SHOWN				

ABBREVIATIONS

	A ABV	AMPERES OR TRIP AMPERES ABOVE	MCC MCP	MOTOR CONTROL CENTER MOTOR CIRCUIT PROTECTOR
E-USED	AC	ALTERNATING CURRENT	MIN	MINIMUM
TO LIGHTING PLAN FOR	ACT	ABOVE COUNTER TOP	MLO	MAIN LUGS ONLY
TO LIGHTING FLAN FOR	A/C	AIR CONDITIONING	MSB	MAIN SWITCH BOARD
	AE	AUSTIN ENERGY	MTD	MOUNTED
	AFF	ABOVE FINISHED FLOOR	MTG MRCT	MOUNTING MULTI-RATIO CURRENT TRANSFORMER
	AFG AIC	ABOVE FINISHED GRADE SYMMETRICAL AMPS INTERRUPTING CAPACITY	MV	MERCURY VAPOR
	AWG	AMERICAN WIRE GAGE	N.C.	NORMALLY CLOSED
	A/R	AS REQUIRED	NEC	NATIONAL ELECTRICAL CODE
BATTERY PACK FIXTURE.	BAL	BALLAST	NEMA	NATIONAL ELECTRICAL MANUFACTURERS
	BD	BOARD		ASSOCIATION NEUTRAL
	BLDG	BUILDING	NEUT NIC	NOT IN THIS CONTRACT
	C CAB	CONDUIT CABINET	N.O.	NORMALLY OPEN
	CAB	CAPACITOR	NTS	NOT TO SCALE
	CB	CIRCUIT BREAKER	OC	ON CENTER
	СКТ	CIRCUIT	OH	OVERHEAD
	CL	CURRENT LIMITING	OL ø	OVERLOAD PHASE
	COA CONN	CITY OF AUSTIN CONNECT OR CONNECTION	Ρ̈́	POLE
	CONN CONT'D	CONTINUED	PA	PUBLIC ADDRESS
	CONTR	CONTRACTOR	PC	PHOTOELECTRIC
	CPT	CONTROL POWER TRANSFORMER	PEN	PENDANT
	CT	CURRENT TRANSFORMER	PNL PRV	PANELBOARD PRESSURE REDUCING VALVE
ARROWS AS INDICATED ON	CU	COPPER	PVC	POLYVINYL CHLORIDE
	DBL	DOUBLE	R	RELOCATED
ROWS AS INDICATED ON	DIM DISC SW	DIMENSION DISCONNECT SWITCH	RECP	RECEPTACLE
	DISC SW	DIRECT CURRENT	REQ'D	REQUIRED
	ĒĀ	EACH	REQ'MTS	REQUIREMENTS
	EC	ELECTRICAL CONTRACTOR	RGC	RIGID GALVANIZED STEEL CONDUIT
48" AFF. UON	EF	EXHAUST FAN	RM RMC	ROOM RIGID METALLIC CONDUIT
T 48" AFF. UON	ELEC EM	ELECTRICAL EMERGENCY	ROW	RIGHT OF WAY
I, MOUNT 48" AFF. UON	EMT	ELECTRICAL METALLIC TUBING	SCH	SCHEDULE
, MOUNI 40 AFF. UUN	ENCL	ENCLOSURE	SE	SERVICE ENTRANCE
H, MOUNT 48" AFF. UON	EQUIP	EQUIPMENT	SH	SHEET
AFF. UON	EWC	ELECTRIC WATER COOLER	SM SN	SURFACE MOUNT SOLID NEUTRAL
	FLA FLEX	FULL LOAD AMPS FLEXIBLE CONDUIT	SOV	SOLENOID OPERATED VALVE
N	FIX	FIXTURE	SPACE	SPACES(S) ONLY (NO BREAKER OR DEVICE)
T LIGHT, MOUNT 48" AFF.	GC	GENERAL CONTRACTOR	SPARE	SPARE BREAKER OR DEVICE
-	GALV	GALVANIZED	SPD	SURGE PROTECTIVE DEVICE
N	GEN		SPECS	
	GFCI GFI	GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT INTERRUPTER	SS SWBD	STAINLESS STEEL HARDWARE SWITCHBOARD
500W, 20=2000W, MOUNT	GND	GROUND	SWED	SWITCH
	HDG	HOT DIPPED GALVANIZED	SWGR	SWITCH GEAR
F. UON	HOA	HAND-OFF-AUTO	TB	TELEPHONE BACKBOARD
LIGHTING CONTROL SYSTEM	HP HPS	HORSEPOWER HIGH PRESSURE SODIUM	TTB TYP	TELEPHONE TERMINAL BOARD TYPICAL
	HT	HEIGHT	UG	UNDERGROUND ELECTRIC
	HTR	HEATER	ÜL	UNDERWRITERS LABORATORIES
	HZ	HERTZ	UON	UNLESS OTHERWISE NOTED
	IMC	INTERMEDIATE METAL CONDUIT	UT	UNDERGROUND TELEPHONE
	INST	INSTRUMENT	V	VOLTS VOLT ANDERES
	JB KCMIL	JUNCTION BOX THOUSAND CIRCULAR MILLS	VA W	VOLT AMPERES WATTS
	KV	KILOVOLTS	W/	WITH
	KVA	KILOVOLT AMPERES	ŴĤ	WATER HEATER
	KW	KILOWATT	WP	WEATHER PROOF
	KWH	KILOWATT HOURS	XFMR	TRANSFORMER
	LA L—L	LIGHTNING ARRESTOR LINE TO LINE	XFR SW XMTR	TRANSFER SWITCH
	L-L L-N	LINE TO NEUTRAL	1/C	TRANSMITTER SINGLE CONDUCTOR CABLE
	LTG	LIGHT OR LIGHTING	3/C	THREE CONDUCTOR CABLE USED WITH A
	MANUF	MANUFACTURER	5/0	NUMERAL, WHICH INDICATES HEIGHT OF ITEM
	MC			AFF LEVEL
	MCB	MAIN CIRCUIT BREAKER	S.D. BARE CU.	SOFT DRAWN BARE COPPER



CONDUIT AND WIRING LEGEND

NEW
EXISTING TO REMAIN
OE OE OVERHEAD ELECTRICAL

ABBREVIATIONS (CONT'D)

GENERAL ELECTRICAL NOTES

- 1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, ALL CITY, COUNTY, AND STATE REGULATIONS, NFPA, ANSI, UL, IEEE, AND THE LOCAL CODE AUTHORITY HAVING JURISDICTION. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND INSPECTIONS.
- 2. ALL ELECTRICIANS SHALL BE LICENSED BY THE APPROPRIATE CITY, STATE, OR LOCAL CODE AUTHORITY HAVING JURISDICTION.
- 3. THE ELECTRICAL CONTRACTOR SHALL FOLLOW ALL OSHA AND OWNER SAFETY RULES AS REQUIRED TO WORK ON THIS SITE.
- 4. ALL INSTALLATIONS SHALL BE DONE IN A NEAT AND WORKMAN LIKE MANNER.
- 5. ALL POWER OUTAGES SHALL BE PERFORMED DURING NON-BUSINESS HOURS. COORDINATE ALL POWER OUTAGES WITH THE OWNER. NOTIFY THE OWNER IN WRITING 10 DAYS PRIOR TO SCHEDULING ANY POWER OUTAGES.
- 6. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL TEMPORARY ELECTRICAL POWER AND LIGHTING REQUIRED FOR THIS PROJECT.
- 7. THE DEMOLITION DRAWINGS (IF APPLICABLE) ARE DIAGRAMMATIC IN NATURE. THE ELECTRICAL CONTRACTOR SHALL BE THOROUGHLY FAMILIAR WITH THE PROJECT SCOPE OF WORK PRIOR TO SUBMITTING THEIR BID.
- 8. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE ELECTRICAL REQUIREMENTS OF ALL OWNER PROVIDED EQUIPMENT AND SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- 9. ALL WORK SHOWN ON DRAWINGS IS NEW UNLESS OTHERWISE NOTED.
- 10. ALL GROUNDING SHALL BE PER NEC AND LOCAL CODES.
- 11. ALL ELECTRICAL CONSTRUCTION ON THE PROJECT SHALL CONFORM TO THE NEC AND ALL OTHER AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED AND PAY ALL FEES.
- 12. ALL WIRING SHALL BE FREE OF SHORTS AND GROUNDS. NO CIRCUIT WIRING SHALL BE LOADED BEYOND THE PERMITTED AMPACITIES ALLOWED BY THE NEC. ALL WIRE SIZES ARE FOR COPPER.
- 13. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING BID.
- 14. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND MATERIALS NECESSARY TO MAKE A COMPLETE AND WORKABLE JOB INCLUDING FINAL HOOK-UP OF ALL EQUIPMENT.
- 15. FIRE STOP SHALL BE PROVIDED AT ALL LOCATIONS WHERE ELECTRICAL EQUIPMENT OR SYSTEMS PENETRATE FIRE RATED WALLS. SEE ARCHITECTURAL PLANS FOR RATED WALL LOCATIONS. CONTROL WIRING TO MECHANICAL EQUIPMENT IS NOT SHOWN ON THESE SHEETS.
- 16. RISER AND ONE-LINE DIAGRAMS ARE MEANT TO SHOW ONLY VERTICAL AND ELECTRICAL RELATIONSHIPS AND THEREFORE MAY NOT INCLUDE ALL REQUIRED EQUIPMENT, DEVICES AND ACCESSORIES.
- 17. EQUIPMENT INTERRUPTING CAPACITIES SPECIFIED IN THE CONTRACT DOCUMENTS ARE BASED UPON EQUIPMENT CHARACTERISTICS AND IMPEDANCES SHOWN ON THE DRAWINGS. IF ACTUAL INSTALLED EQUIPMENT DEVIATES FROM THESE CHARACTERISTICS OR HAS LOWER IMPEDANCES THE CONTRACTOR SHALL INCREASE THE INTERRUPTING CAPACITIES OF ALL ITEMS ON THE LOAD SIDE OF THE DEVIANT EQUIPMENT IN DIRECT PROPORTION TO THE CHANGED CHARACTERISTICS. INTERRUPTING CAPACITIES SHALL NOT BE REDUCED TO VALUES LESS THAN THOSE REQUIRED BY THE CONTRACT DOCUMENTS.
- 18. EQUIPMENT SIZES ARE AS DESIGNED. CIRCUIT BREAKERS, CONDUIT, MOTOR STARTERS, DISCONNECT SWITCHES, PLUG-IN'S, ETC., SHALL BE ADJUSTED TO THE EQUIPMENT SUBMITTED AND APPROVED FOR INSTALLATION ON THIS PROJECT.
- 19. REFER TO ARCHITECTURAL OR CIVIL DRAWINGS FOR SITE INFORMATION.
- 20. LIGHT FIXTURE MOUNTING HEIGHTS ARE MEASURED BETWEEN THE FLOOR AND THE BOTTOM OF THE FIXTURE.

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Project Title: TOM GREEN COUNTY	PUGH PARK		Drawing Title: ELECTORCAL NOTEC	ELECINICAL NOIES,	SYMBOLS & ABBREVIATIONS
Drawn By: AH	Checked By:	Scale:	PER TITLE	Dat	05/14/2020
232022 *	AS EDW/	ARD 335 NSE ALE	NGT	HAN CU	1111, 40
***	AS EDWA 135 SSION	ARD	Corporate Office: The Culver Road Armory, 145 Culver Road, Suite 160, Rochester, New York 14620	TBPE Firm Number: F-10615	www.mrbgroup.com

ELEC	TRICAL SPECIFICATIONS		ALL AMEND
	1 – GENERAL		WITH ALL F
	WORK INCLUDED		WARRANTY
	ELECTRICAL SYSTEMS – ALL WORK SHALL BE PERFORMED PER BUILDING SPECIFICATIONS.	Α.	GUARANTEE ACCEPTANC
A.	THE WORK COVERED BY THIS SPECIFICATION CONSISTS OF FURNISHING ALL LABOR, SUPPLIES AND MATERIALS, SHOP DRAWINGS AND A LIST OF	PART	2 – PROD
	MAKE AND CATALOG NUMBERS OF ALL EQUIPMENT AND MATERIALS TO BE INSTALLED AND PERFORMING ALL OPERATIONS, INCLUDING INSTALLATION OF LIGHTING FIXTURES, ELECTRICAL EQUIPMENT, CUTTING AND PATCHING, COORDINATION WITH OTHER TRADES ON THE JOB, ETC., NECESSARY FOR THE INSTALLATION OF COMPLETE ELECTRICAL SYSTEMS AS SHOWN ON THE DRAWINGS AND HEREINAFTER SPECIFIED. THESE SPECIFICATIONS SUPPLEMENT THE GENERAL CONDITIONS AND SPECIFICATIONS.		<u>CONDUIT</u> EXCEPT AS HEREINAFTE
3.	EXAMINATION OF SITE: THE CONTRACTOR SHALL THOROUGHLY EXAMINE SITE AND SATISFY HIMSELF AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. THE CONTRACTOR SHALL VERIFY AT THE SITE ALL MEASUREMENTS AFFECTING HIS WORK AND SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE SAME. NO EXTRA COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR EXPENSES DUE TO HIS NEGLECT TO EXAMINE OR FAILURE TO DISCOVER CONDITIONS WHICH AFFECT HIS WORK. NO EXTRA COMPENSATION WILL BE ALLOWED ON ACCOUNT OF DIFFERENCES BETWEEN ACTUAL DIMENSIONS AND THOSE INDICATED ON THE DRAWINGS.	В.	INSTALL CONDUITS ALL OUTLE CONDUITS EQUIPMENT
).	THE AGREEMENT FORMS, GENERAL CONDITIONS AND SUPPLEMENTARY CONDITIONS OF THE SPECIFICATIONS SHALL APPLY TO THE WORK SPECIFIED IN DIVISION 26.	C.	INSTALL A
.03	DEFINITION	D.	TRAPPED
۹.	"WIRING": WIRE OR CABLE, INSTALLED IN RACEWAY WITH ALL REQUIRED BOXES, FITTINGS, CONNECTORS AND ACCESSORIES, COMPLETELY	Ε.	GENERALL
-	INSTALLED. "FEEDER": WIRING TO ANY DEVICE OR EQUIPMENT IN WHICH NUMBER SIX AWG COPPER (#6 CU) OR LARGER CONDUCTORS ARE USED.	F.	NO BENDS
3. C.	"POWER WIRING": WIRING TO ANY DEVICE OR EQUIPMENT IN WHICH NUMBER SIX AWG COPPER (#6 CO) OR LARGER CONDUCTORS ARE USED.	G.	PROVIDE J
	QUALITY ASSURANCE		INCREASE
	CODES: COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND ANY OTHER AUTHORITIES HAVING JURISDICTION	Ι.	RUN ALL OINTERVALS
	OVER THE WORK.	J.	INSTALL AF
3.).	PERMITS AND INSPECTIONS: PROVIDE ALL PERMITS REQUIRED AND OBTAIN FINAL INSPECTION AND APPROVAL FROM THE INSPECTION DEPARTMENT HAVING JURISDICTION. WHERE DIFFERENT SECTIONS OF ANY APPLICABLE CODES SPECIFY DIFFERENT MATERIALS, METHODS OF CONSTRUCTION, OR OTHER	к.	BY THE AF
•	REQUIREMENTS, THE MOST RESTRICTIVE SHALL GOVERN.	<u>2.02</u>	WIRING
).	STANDARDS FOR MATERIAL AND WORKMANSHIP: USE MATERIALS THAT ARE NEW AND LISTED AND LABELED BY UNDERWRITERS LABORATORIES (UL) AS CONFORMING TO ITS STANDARDS, WHERE SUCH A STANDARD HAS BEEN ESTABLISHED FOR THE PARTICULAR TYPE OF MATERIAL IN QUESTION. EXECUTE WORK IN A WORKMAN LIKE MANNER, TO PRESENT A NEAT AND MECHANICAL APPEARANCE WHEN COMPLETED.	Α.	INSTALL W 1. FEEDEI LOCATION
	SUBSTITUTION OF MATERIALS NO SUBSTITUTION OF MATERIAL IS ALLOWED WITHOUT WRITTEN PRIOR AUTHORIZATION FROM THE ENGINEER AND OWNER. DETERMINATION OF		2. BRANG
	WHAT IS CONSIDERED EQUAL IS AT THE SOLE DISCRETION OF THE ENGINEER AND OWNER.		3. INSTAL
B.	INCLUDE SUFFICIENT DESCRIPTIVE INFORMATION, INCLUDING MANUFACTURER'S PUBLISHED DATA TO ESTABLISH CONTRACT COMPLIANCE. SUBMIT SAMPLES IF REQUESTED BY ARCHITECT/ENGINEER.		4. INSTAL INSTALL SI CONNECTO
	DRAWINGS AND SPECIFICATIONS THE WIRING LAYOUTS ARE SCHEMATIC AND DO NOT NECESSARILY SHOW THE EXACT LOCATION OF RACEWAYS, OUTLETS, ETC. REFER TO THE		5. CONN
	ARCHITECTURAL DRAWINGS FOR ACTUAL DIMENSIONS. FIT WORK TO CONFORM TO THE DETAILS OF BUILDING CONSTRUCTION. COORDINATE ALL WORK TO ASSURE PROPER CLEARANCE.		COLOR CO COLOR BE JURISDICTI
	AS-BUILT DRAWINGS AS WORK PROGRESSES, RECORD ON ONE (1) SET OF ELECTRICAL PRINTS ALL CHANGES AND DEVIATIONS FROM THE CONTRACT DOCUMENTS IN		
٦.	SIZE, LOCATIONS AND TYPES OF ALL MATERIALS AND EQUIPMENT. RECORD FINAL LOCATION OF OUTLETS, SWITCHES, STARTERS, UNDERGROUND AND EXPOSED CONDUITS, ETC. TO INDICATE THE FINAL INSTALLATION. MAKE SUFFICIENT MEASUREMENTS TO LOCATE ALL EQUIPMENT AND CONDUITS. PROVIDE AS-BUILT DRAWINGS.		PH PH PH NE
В.	THE CONTRACTOR SHALL PREPARE A TYPED PANEL DIRECTORY FOR EACH PANEL UTILIZED FOR THIS PROJECT. THIS DIRECTORY SHALL IDENTIFY THE CIRCUIT NUMBER, DEVICES SERVED, AND LOCATION OF DEVICES BY ROOM NUMBER. HE SHALL FILE THEM WITH THE BUILDING MANAGER WHEN THE WORK IS COMPLETE.		GF 6. BRANC WHEREVER
	MAINTENANCE DATA		7. ALL WI
	FURNISH AND DELIVER TO THE ARCHITECT/ENGINEER TWO (2) COMPLETE COPIES OF ALL DATA PREPARED BY MANUFACTURERS, DETAILING OPERATION AND MAINTENANCE INSTRUCTION FOR ALL EQUIPMENT. PENETRATIONS, CUTTING, AND PATCHING		PROTECTION DRAPED, OF SUSPENDED
	PERFORM CUTTING AND PATCHING IN ACCORDANCE WITH THE GENERAL AND SUPPLEMENTARY CONDITIONS OF THE CONTRACT.		8. ARMO
3.	PROVIDE ALL SLEEVES REQUIRED FOR PROPER INSTALLATION OF WORK INCLUDED IN THIS SECTION.		A. A WIRE
). 10	MAKE ALL PENETRATIONS THROUGH WALLS AT 90 DEGREE ANGLES. SEAL ALL PENETRATIONS AT FIRE AND SMOKE PARTITIONS WITH FIRE SAFING MATERIAL. SEAL ALL PENETRATIONS AT SOUND WALLS WITH SOUNDPROOFING MATERIAL.		
A.	<u>SUBMITTALS</u> SHOP DRAWINGS AND MATERIAL BROCHURES: FURNISH AN ELECTRONIC SET OF SHOP DRAWINGS AND PRODUCT DATA IN PDF FORMAT TO THE ARCHITECT/ENGINEER ON THE FOLLOWING MATERIALS:		
	1. LIGHTING FIXTURES		B. 11 RUNS
	2. DISCONNECT SWITCHES	<u>2.03</u>	CONDUCTOR
	3. TRANSFORMERS	Α.	COPPER O
	4. RACEWAYS	В.	NO. 10 AM
	5. CONDUCTORS	C.	NO. 8 ANI
	6. CONTROL PANELS	D.	MINIMUM S
. <u>.1</u> 1	7. INSTRUMENTATION <u>COOPERATION</u>	E.	USE WIRE
4.	THE CONTRACTOR SHALL SCHEDULE HIS WORK, AND IN EVERY WAY POSSIBLE, COOPERATE WITH ALL OTHER TRADES IN THE JOB TO AVOID	2 04	LABORATOF
	DELAYS, INTERFERENCES AND UNNECESSARY WORK. HE SHALL COOPERATE WITH THEM IN PROVIDING FOR THE INSTALLATION OF THIS WORK AND COORDINATE WITH WORK OF OTHER TRADES TO ASSURE PROPER CLEARANCE OF PIPING, DUCTWORK, CONDUIT, ETC. WHEN SUCH IS REQUIRED.		USE GALVA ETC.
<u>ı.12</u> ∆	<u>WIRING WORKMANSHIP</u> RUN WIRING IN ALL BRANCH CIRCUIT PANELBOARDS AND TERMINAL CABINETS PARALLEL OR AT RIGHT ANGLES TO THE SIDES OR TOP OF THE	В.	SECURELY
а. В.	EQUIPMENT HOUSING. GROUP AND HARNESS CONDUCTORS TOGETHER USING LOCKING TYPE CABLE TIES. CABLE TIES: AS MANUFACTURED BY THE PANDUIT	C.	FLUSH MO AS BEING NOT ALLOW
	CORPORATION OR THOMAS AND BETTS.	<u>2.05</u>	INSTALLATIO
<u>1.13</u> A	<u>STORAGE MATERIALS</u> KEEP THE BUILDING AND PREMISES CLEAN AND CLEAR OF SCRAP MATERIALS AT ALL TIMES, STORE MATERIALS AND EQUIPMENT IN DESIGNATED	A.	INSTALL RA
<u>.</u> 1.14	KEEP THE BUILDING AND PREMISES CLEAN AND CLEAR OF SCRAP MATERIALS AT ALL TIMES. STORE MATERIALS AND EQUIPMENT IN DESIGNATED STORAGE AREAS.	В.	INSTALL TH INTERNAL PLACE.
A.	ORDER MATERIALS AND EQUIPMENT SO AS NOT TO JEOPARDIZE PROGRESS OF CONSTRUCTION OR COMPLETION DATE.	2.06	DISCONNECT
<u>1.15</u>	SAFETY PRECAUTIONS AND PROGRAMS		FEEDER S
A.	IT SHALL BE THE DUTY AND RESPONSIBILITY OF THE CONTRACTOR AND ALL OF ITS SUBCONTRACTORS TO BE FAMILIAR AND COMPLY WITH ALL		TO THE W

REQUIREMENTS OF PUBLIC LAW 91-96, 29 U.S.C. SECS. 651 ET. SEQ., THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (OSHA), AND

B. DISCON

DMENTS THERETO AND TO ENFORCE AND COMPLY WITH ALL OF THE PROVISIONS OF THIS ACT. IN ADDITION, ON PROJECTS IN INCH EXCAVATION WILL EXCEED A DEPTH OF FIVE FEET (5'), THE CONTRACTOR AND ALL OF ITS SUBCONTRACTORS SHALL COMPLY REQUIREMENTS OF 29 C.F.R., SECS. 1926.652 AND 1926.653, OSHA SAFETY AND HEALTH STANDARDS.

ALL WORK UNDER THIS SECTION FOR WORKMANSHIP, LABOR AND MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF E BY THE OWNER OR HIS AUTHORIZED REPRESENTATIVE.

OUCTS AND EXECUTION

OTHERWISE NOTED, SPECIFIED OR REQUIRED, INSTALL ALL WIRES USED IN THIS PROJECT IN ELECTRICAL METALLIC TUBING AS ER SPECIFIED. (METAL CLAD CABLE MAY BE INSTALLED IN LIEU OF CONDUIT AS STATED BELOW)

CONDUITS CONTINUOUS FROM OUTLET TO OUTLET, FROM OUTLET TO CABINET, JUNCTION BOX AND PULL BOX. SECURE TO ALL BOXES, ETC., IN SUCH A MANNER THAT EACH SYSTEM WILL BE ELECTRICALLY CONTINUOUS FROM SERVICE TO ETS. TERMINATE ALL CONDUIT RUNS FROM CABINETS AND JUNCTION BOXES IN APPROVED OUTLET BOXES. INSTALL AS HIGH AS POSSIBLE UP AGAINST STRUCTURE ABOVE. AVOID ROUTING CONFLICTS WITH HVAC IT/DUCTWORK, SANITARY WASTE, VENT PIPING, AND DOMESTIC WATER PIPING.

NYLON PULL WIRE (200 LB. TEST) AND TIE ENDS IN ALL CONDUIT LINES LEFT EMPTY FOR FUTURE USE.

OR INACCESSIBLE JUNCTION BOXES, OUTLETS, ETC. ARE NOT ALLOWED.

Y, CONCEAL ALL CONDUITS UNLESS OTHERWISE DIRECTED OR INDICATED ON THE DRAWINGS.

PERMITTED WITH A RADIUS LESS THAN SIX (6) TIMES THE DIAMETER OF THE CONDUIT.

JUNCTION BOXES OR PULL BOXES TO AVOID EXCESSIVE RUNS OR TOO MANY BENDS BETWEEN OUTLETS.

CONDUIT SIZES SHOWN ON THE PLANS AS REQUIRED FACILITATING PULLING OF CONDUCTORS.

CONDUITS PARALLEL TO OR AT RIGHT ANGLES TO THE BUILDING WALLS AND SUPPORT FROM WALLS OR CEILINGS AT REQUIRED BY CODE WITH APPROVED CLAMPS OR HANGERS.

PPROVED APPLETON, CROUSE HINDS, OR O.Z. MANUFACTURING CO. EXPANSION FITTINGS IN ALL EMT RUNS WHICH OUGH EXPANSION JOINTS IN THE BUILDING. OTHER METHODS TO PROVIDE FOR THIS EXPANSION MUST BE APPROVED RCHITECT/ENGINEER.

W GRADE TO BE SCHEDULE 40 PVC.

VIRING AS FOLLOWS:

TRS AND POWER WIRING: CONDUCTORS IN RIGID GALVANIZED STEEL CONDUIT IMC, OR EMT WHEN INSTALLED IN DRY ABOVE GRADE. SCHEDULE 40 PVC WHEN INSTALLED BELOW GRADE.

CH CIRCUITS: INSTALL CONDUCTORS IN EMT.

LL ALL WIRING IN EMT. USE ONLY UL LISTED LUBRICANTS IN PULLING THE CONDUCTORS.

ALL CONDUCTORS CONTINUOUS FROM OUTLET TO OUTLET AND FROM OUTLET TO JUNCTION BOX OR PULL BOX. SPLICES AND JOINTS CAREFULLY AND SECURELY TO BE MECHANICALLY AND ELECTRICALLY SOLID WITH PRESSURE TYPE DRS. USE 3M "SCOTCHLOCK" OR IDEAL "WING NUT" OR EQUAL TWIST-ON CONNECTORS FOR #10 AND SMALLER DRS.

IECT CONDUCTORS FOR LIGHTING AND RECEPTACLE CIRCUITS TO THE PANEL AS DETAILED WITH COLOR CODED JACKET. DDE ALL WIRES WITH THE TYPE, SIZE, MAKE AND VOLTAGE MARKED ON IT. COLOR CODE WIRING WITH THE SAME EING USED WITH ITS RESPECTIVE PHASE AS FOLLOWS, UNLESS OTHERWISE REQUIRED BY THE LOCAL AUTHORITY HAVING ION.

	<u>120/240 VOLT DELTA</u>	120/208 VOLT WYE	480/277 VOLT WYE
HASE A	RED	RED	BROWN
HASE B	ORANGE	BLACK	YELLOW
HASE C	BLACK	BLUE	PURPLE
EUTRAL	WHITE	WHITE	GRAY
ROUND	GREEN	GREEN	GREEN

CH CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN NO. 12 AWG. INCREASE THE WIRE SIZES UP ONE (1) SIZE R THE RUN DISTANCE EXCEEDS 200 FEET.

IRING AND CABLE INCLUDING FIBER OPTIC, ELECTRICAL, DATA, TELECOMMUNICATIONS, TEMPERATURE CONTROLS, SECURITY, FIRE N, ETC. SHALL BE RUN IN ELEC. METALLIC CONDUIT (EMT). WIRING OR CABLES OF ANY TYPE SHALL NOT BE LAID, RUN, I'R STRUNG ACROSS CEILING GRID, CEILING TILES, SUSPENSION WIRES, AND SHALL NOT BE INSTALLED WITHIN 12" ABOVE THE D CEILING SYSTEM OR SUPPORT STRUCTURE.

RED CABLE/METAL-CLAD CABLE

ARMORED CABLE (AC CABLE) AND/OR METAL-CLAD CABLE (MC CABLE) MAY BE INSTALLED IN LIEU OF CONDUIT AND AS ALLOWED BY THE CODE AND APPROVED BUILDING OWNER STANDARDS FOR:

1. BRANCH CIRCUIT WIRING (#10 AND SMALLER).

2. INTERCONNECTION OF LIGHTING FIXTURE.

3. FLEXIBLE CONNECTION TO VIBRATING EQUIPMENT (SMALL EXHAUST FANS, ETC.)

SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER AND ADEQUATELY SUPPORTED PER THE CODE AND AHJ. ALL HOME FROM PANELS SHALL BE CONDUIT AND WIRE.

<u>S</u>

OF 98% CONDUCTIVITY.

ND SMALLER: SOLID, TYPE THWN/THHN, EXCEPT AS OTHERWISE NOTED.

D LARGER: STRANDED, TYPE THWN/THHN, EXCEPT AS OTHERWISE NOTED..

SIZE CONDUCTORS USED SHALL BE NO. 12 AWG FOR ALL APPLICATIONS EXCEPT WHERE SPECIFICALLY NOTED E (A.C. CONTROLS, ETC.).

AND CABLE FROM ONE (1) MANUFACTURER. DELIVER IN THE ORIGINAL WRAPPING BEARING THE UNDERWRITERS RIES (UL) LABEL.

ANIZED STEEL OR CAST TYPE BOXES AT ALL OUTLETS FOR LIGHTING FIXTURES, WALL SWITCHES, WALL RECEPTACLES,

ATTACH OUTLET BOXES FOR FIXTURES AND DEVICES TO THE BUILDING CONSTRUCTION WITH EXPANSION BOLTS.

OUNT ALL OUTLET BOXES, REGARDLESS OF WALL OR CEILING CONSTRUCTION, UNLESS THEY ARE SPECIFICALLY SHOWN USED WITH EXPOSED CONDUIT. IF SURFACE MOUNTED, USE CAST TYPE AS SPECIFIED ABOVE. UTILITY BOXES ARE WED.

N

ACEWAYS EXPOSED. SUPPORT EXPOSED RACEWAYS AT INTERVALS NOT EXCEEDING TEN FEET (10') WITH MACHINE FOR METAL CONSTRUCTION AND EXPANSION BOLTS FOR CONCRETE CONSTRUCTION.

HE EDGES OF ALL OUTLET BOXES FLUSH WITH THE SURFACE IN WHICH THEY ARE RECESSED. SCREW ATTACH DEVICES BEFORE ATTACHING COVERPLATE. DO NOT USE COVERPLATES AS A MEANS OF TIGHTENING THE DEVICES IN

AND FEEDER SWITCHES

WITCHES AND DISCONNECT SWITCHES: HEAVY DUTY, EXCEPT AS OTHERWISE NOTED. IN DAMP LOCATIONS OR EXPOSED VEATHER, USE NEMA 3R, RAINTIGHT.

B. DISCONNECT SWITCHES: FACTORY INSTALLED PROVISION FOR PADLOCKING IN EITHER THE "ON" OR "OFF" POSITION.

2.07 FUSES

A. FUSES: BUSSMANN OR APPROVED EQUAL.

2.08 LABELING

- A. LABEL ALL PANELS, CONTROL POINTS, SWITCHES, AND INDICATING THE EQUIPMENT WHICH THEY CONTROL. AL EQUIPMENT NUMBERING WITH MECHANICAL CONTRACTOR
- B. INSTALL ARC FLASH HAZARD LABELS ON ALL NEW SWIT AND MOTOR CONTROL CENTERS PER NEC 110.16. PAN

2.09 GROUNDING

A. PROVIDE GROUNDING FOR ELECTRICAL SYSTEM IN ACCO

2.10 COVERPLATES

- A. WHERE WIRING DEVICES ARE FLUSH MOUNTED, INSTALL S/S LEVITON 84XXX-40 SERIES, NYLON 807XX-(X), C
- B. WHERE WIRING DEVICES ARE SURFACE MOUNTED, INST
- C. WHERE WEATHERPROOF/WEATHER-RESISTANT COVERPLA COVERPLATES THAT ARE HINGED AND GASKETED WITH S APPROVED EQUAL.
- D. INSTALL FINISHED COVERPLATES ON ALL JUNCTION BOX
- E. WHERE MORE THAN ONE (1) DEVICE IS INDICATED AT COMMON PLATE.

2.11 RECEPTACLES

- A. DUPLEX RECEPTACLES: 20 AMPERE, 125 VOLT, SELF ARCHITECT, LEVITON 5362-(X), LEVITON GFCI 7899-(>
- SPECIAL MOUNTING HEIGHTS ARE NOTED ON THE ARCH MOUNT DEVICES AT THE FOLLOWING HEIGHTS ABOVE F
- 1. DUPLEX RECEPTACLE18"2. WALL SWITCHES48"
- 3. VOICE & VOICE/DATA OUTLETS 18"
- 4. WALL TELEPHONE OUTLETS 48"

2.12 SWITCHES

- A. PROVIDE HEAVY-DUTY, AC, QUIET SWITCHES. THE SWI VOLT, 20 AMPERES, SPECIFICATION GRADE. SWITCHES SCHEDULED ON THE DRAWINGS AND SHALL BE THE SE BY ARCHITECT.
- B. PROVIDE OCCUPANT-SENSING DEVICES TO CONTROL SW LEVITON MULTI-TECHNOLOGY WALL SWITCH OCCUPANCY STANDARDS OR BE SELECTED BY ARCHITECT.

2.13 LIGHTING FIXTURES

- A. PROVIDE ALL LIGHTING FIXTURES, AS SCHEDULED ON E CONNECTED AND IN OPERATING ORDER.
- B. CONFIRM ALL CEILING CONDITIONS, CLEARANCES AND (
- C. SUBMIT SHOP DRAWINGS.

2.13.1 LAMPS

A. INSTALL SCHEDULED LAMPS MANUFACTURED BY GENERAL

- A. PROVIDE LIGHTING FIXTURES WHICH HAVE BEEN TESTED
- B. PROVIDE LIGHTING FIXTURES WITH TRIM COMPATIBLE WI
- C. EACH LUMINAIRE SHALL HAVE TWO SUPPORT WIRES INS CEILINGS SHALL BE SUPPORTED ON ALL FOUR CORNER
- D. SUPPORT AND SECURELY ATTACH WITH GALVANIZED FA
- E. INSTALL ACCORDING TO MANUFACTURER'S RECOMMENDA
- F. FIRE RATED ASSEMBLIES, COMPLY WITH DETAILS OF LI

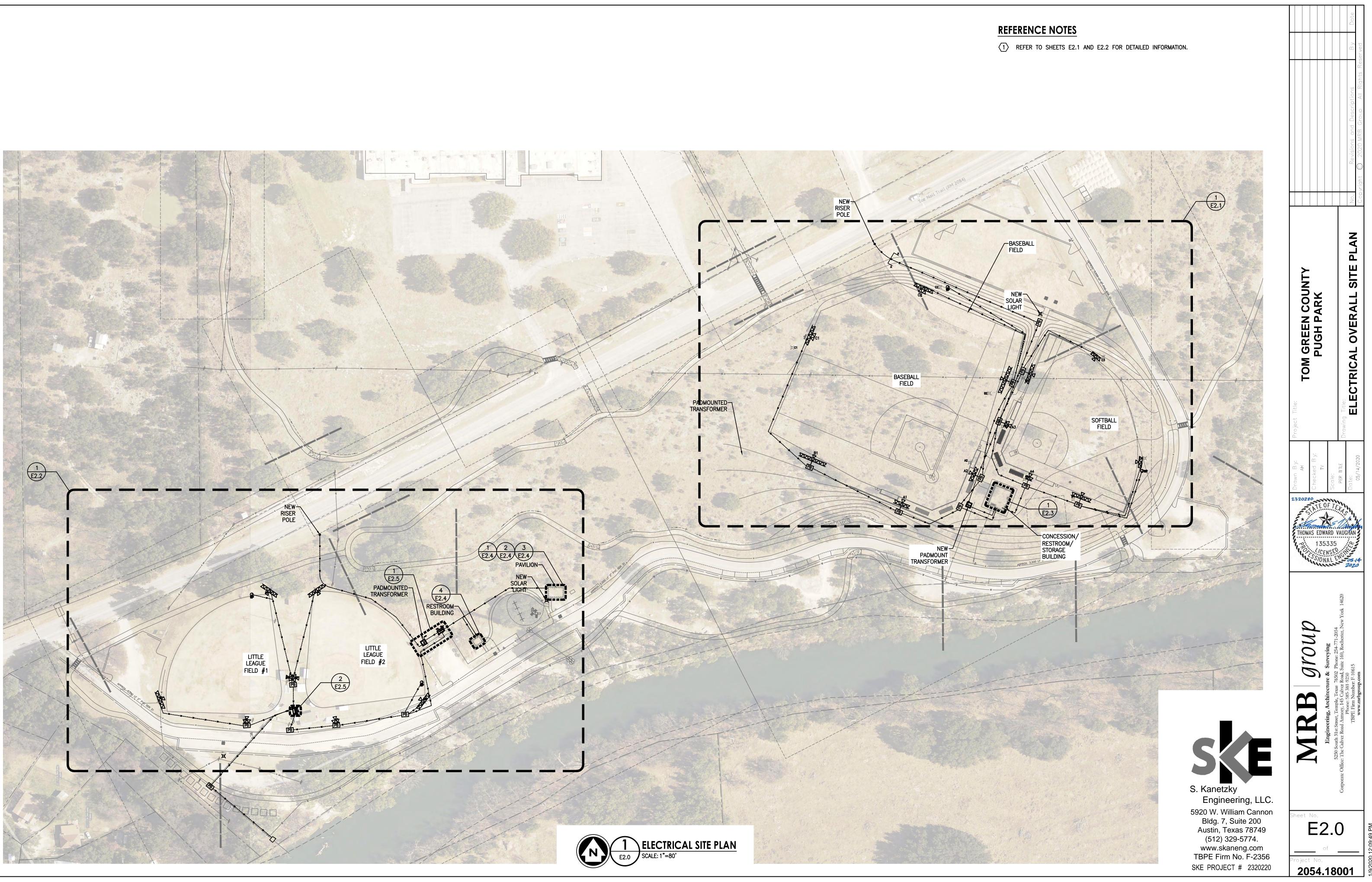
2.14 TEMPORARY POWER

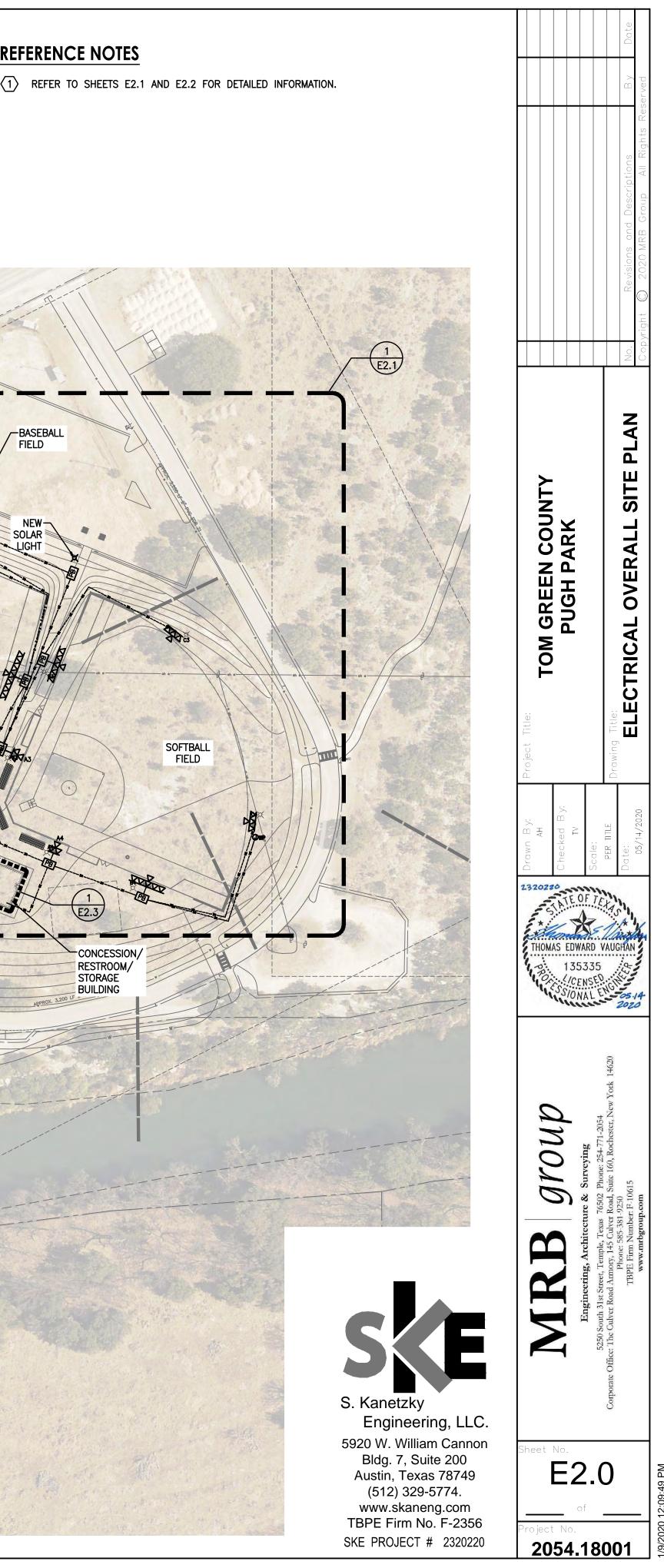
- A. PROVIDE TEMPORARY POWER (SMALL TOOL) AND LIGHT 2.15 FIRE ALARM AND SPECIAL SYSTEMS
- A. FIRE ALARM CONTRACTOR SHALL PROVIDE COMPLETE S LOCAL AUTHORITY HAVING JURISDICTION (AHJ) REQUIRE

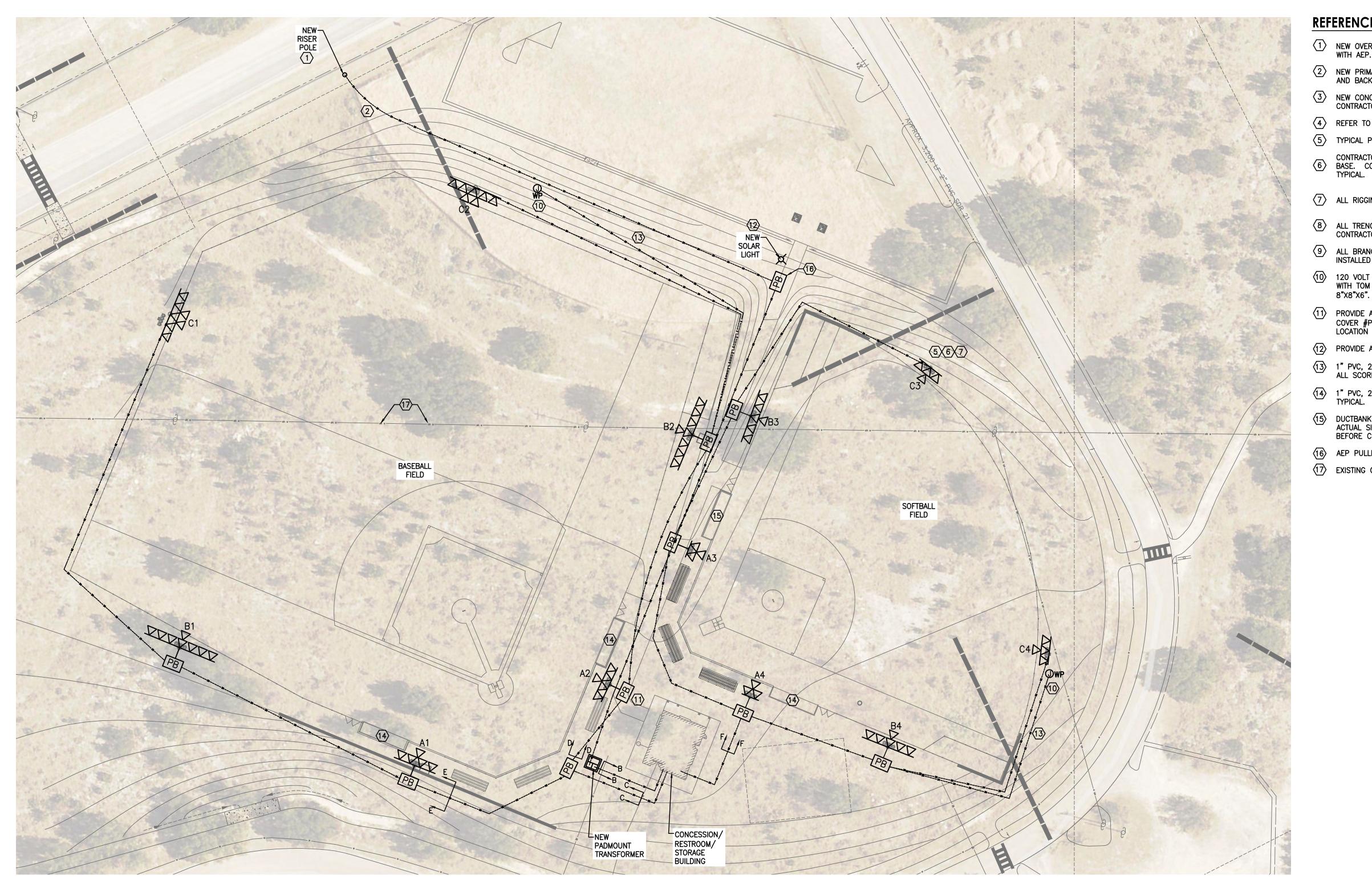
2.16 LIGHTING CONTROLS

- A. PROVIDE 0-10V LIGHTING CONTROL DEVICES.
- B. DEVICES SHALL BE COMPATIBLE WITH SUBMITTED LED
- C. OCCUPANCY SENSORS, PROVIDE INTEGRAL OCCUPANCY
- D. ACCEPTABLE MANUFACTURERS
- 1. nLIGHT
- 2. CRESTRON
- 3. WATT STOPPER
- 4. LUTRON
- 5. DOUGLAS
- E. WALL-BOX MOUNTED OCCUPANCY SENSORS SHALL PRO CONNECTED LUMINAIRES AT LINE VOLTAGE, EXCEPT WHE ELECTRICAL SCHEMATICS.
- F. CEILING-MOUNTED OCCUPANCY SENSORS AND SELECTED THROUGH CONTROL UNITS (I.E., SWITCHING POWER SUP
- G. INSTALL OCCUPANCY SENSORS IN THE CORRECT LOCATI VOLUMETRIC COVERAGE WITHIN THE RANGE OF COVERAG RECOMMENDATIONS. ROOMS SHALL HAVE 100 PERCEN ACCOMMODATE THE OCCUPANCY HABITS OF SINGLE OR LOCATIONS AND QUANTITIES OF SENSORS SHOWN ON T ROOMS WHICH ARE TO BE PROVIDED WITH SENSORS. AS REQUIRED TO PROPERLY AND COMPLETELY COVER

			Date
D MOTORS, AS DIRECTED. IDENTIFY PANELS BY PANEL NUMBER. ALL LABELS SHALL BE ENGRAVED. PANEL DIRECTORIES TO BE TO OR.			B y served
WITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS, METE PANDUIT #PPS0305W2100 OR EQUAL.	R SOCKET ENCLOSURES		s Rights Re
CORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICA	L CODE (NEC)		escription oup All
LL COVERPLATES TO MATCH BUILDING STANDARDS OR AS SELECTE OR APPROVED EQUAL.	ED BY ARCHITECT. 302		ns and D 0 MRB Gr
STALL FORMED STEEL COVERPLATES WITH CADMIUM PLATING. PLATES ARE REQUIRED, MEET UL "WET LOCATION COVER CLOSED" I SPRING LOADED CLOSER, LEVITON 4970/WHILE—IN—USE LEVITON			Revisio 2020
OXES, OUTLET BOXES, SECTIONAL SWITCH BOXES, UTILITY BOXES, T A LOCATION, MOUNT DEVICES IN COMBINED SECTION GANG BOXE			No. C op yrigh t
F OR AUTOMATIC GROUNDING, COLOR TO MATCH BUILDING STANDA (X) , OR APPROVED EQUAL.	ARD OR AS SELECTED BY		
CHITECTURAL DRAWINGS. UNLESS OTHERWISE INDICATED ON THE FINISHED FLOOR:	ELECTRICAL DRAWINGS,		IONS
WITCHES SHALL BE LEVITON 122X–2(X), 122X–2(X)L, OR APPROV ES SHALL BE SINGLE POLE, DOUBLE POLE, THREE WAY, FOUR WA SELF GROUNDING TYPE. COLOR SHALL MATCH BUILDING STANDAR	Y, OR KEY OPERATED AS	TOM GREEN COUNTY PUGH PARK	CAL SPECIFICATIONS
SWITCHING PER IEC 505.2.1.1 EXCEPTION 2 AS SCHEDULED ON T CY SENSOR #OSSMD-MD-(X), OR APPROVED EQUAL. COLOR SHA	THE DRAWINGS. USE	MOT	ECTRICAL
DRAWINGS, COMPLETE WITH LAMPS AND HARDWARE. INSTALL COM	IPLETELY WIRED,	Title:	Title:
OPERATING VOLTAGES BEFORE ORDERING LIGHTING FIXTURES.		Project	Drawing
ERAL ELECTRIC, PHILLIPS, OR APPROVED EQUAL.		B y: AH TV B y:	ER TITLE e: 05/14/2020
ED AND CERTIFIED FOR PROPER OPERATION BY THE FIXTURE'S M WITH CEILING OR SURFACE ON OR IN WHICH INSTALLED. INSTALLED, ONE ON EACH END, AT DIAGONAL CORNERS. LUMINAIRE IERS.		AH HA T T T T T T T T T T T T T T T T T	Dat
FASTENERS IN A LEVEL POSITION. DATIONS.		THOMAS EDWARD	
LISTED ASSEMBLY.		Sional	ENG 05.14 2020
ITING PER OSHA REQUIREMENTS.			0
SHOP DRAWINGS, ROUTING, BATTERY CALCULATIONS AND ALL OTH REMENTS. PROVIDE A COMPLETE CODE COMPLIANT WORKING FIRE		dr	-2054 ster, New York 146
D DRIVERS. BY SENSORS WITH DUAL TECHNOLOGY WHERE INDICATED ON PLANS	5.	B Jrowp tecture & Surveying	reet, Temple, Texas 76502 Phone: 254-771-2054 Armory, 145 Culver Road, Suite 160, Rochester, New York 14620 Phone: 585-381-9250 IBPE Firm Number: F-10615 www.mrbgroup.com
PROVIDE INTERNAL CONTACTS FOR AUTOMATIC SWITCHING OF WHERE INDICATED OTHERWISE ON THE PLANS AND STED WALL-MOUNTED SENSORS SHALL CONTROL LUMINAIRES SUPPLIES, SWITCH PACKS, POWER PACKS).	S. Kanetzky	BARRAN BARRA 1	5250 South 31st Street, Temple, Texas 76502 Corporate Office: The Culver Road Armory, 145 Culver Road, Phone: 585-381-9250 TBPE Firm Number: F-10 www.mrbgroup.com
CATION AND AIM AS REQUIRED FOR COMPLETE AND PROPER RAGE OF CONTROLLED AREAS PER THE MANUFACTURER'S ENT COVERAGE OF EACH CONTROLLED AREA TO OR MULTIPLE OCCUPANTS WITHIN THE ROOMS. THE I THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY THE . THE CONTRACTOR SHALL PROVIDE ADDITIONAL SENSORS R THE RESPECTIVE ROOM.	Engineering, LLC. 5920 W. William Cannon Bldg. 7, Suite 200 Austin, Texas 78749 (512) 329-5774.	Sheet No. E1.	1
	www.skaneng.com TBPE Firm No. F-2356 SKE PROJECT # 2320220	of Project No.	1 3001
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ELECTRICAL BASEBALL AND SOFTBALL FIELD PLAN (15)

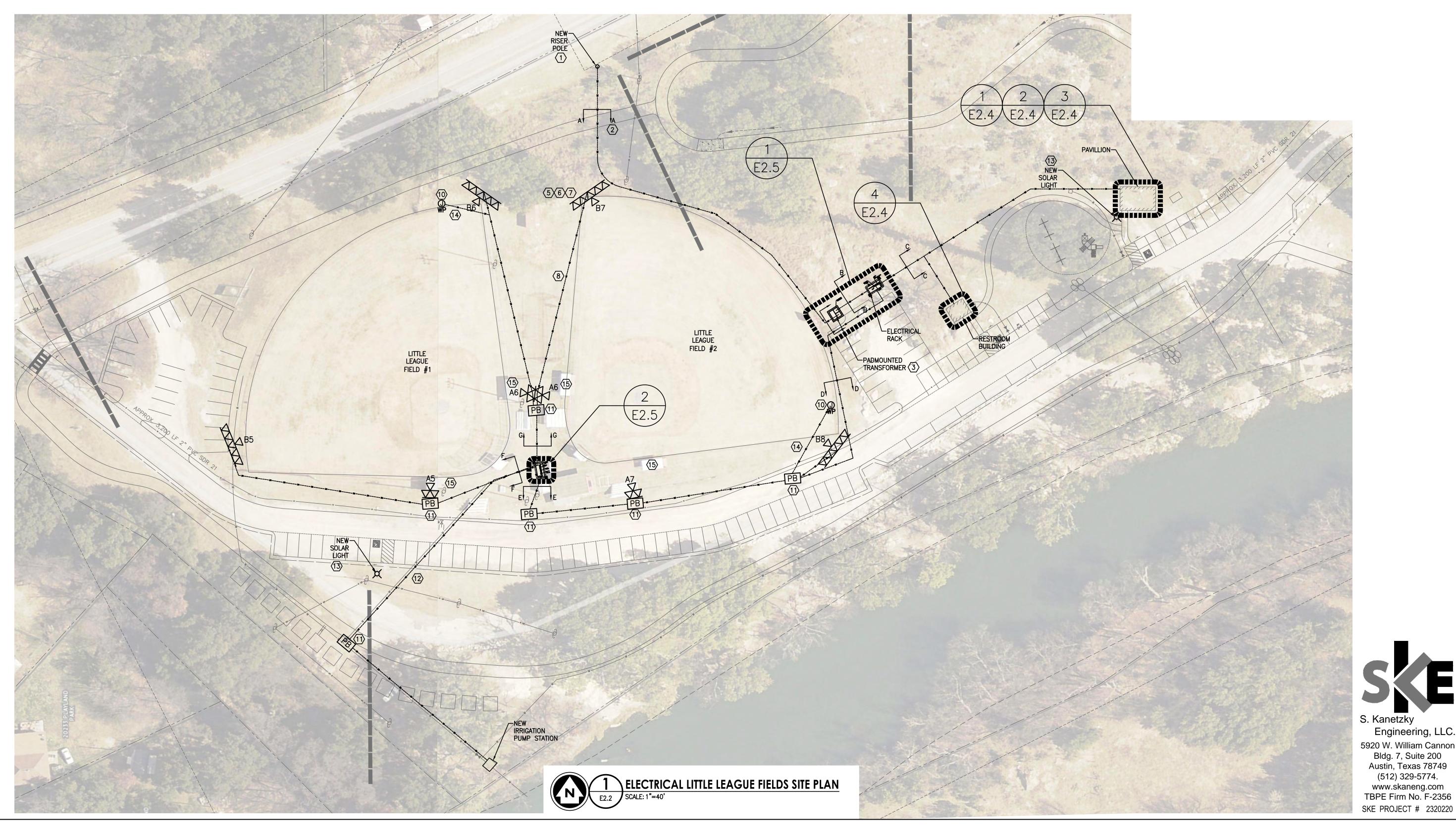
CE NOTES		Date
VERHEAD ELECTRICAL SERVICE BY AEP. CONTACT STEVE MARCUM, (325) 657–2869		B y ved
EP. RIMARY CONDUITS AND WIRING PROVIDED AND INSTALLED BY AEP. ALL TRENCHING ACKFILL BY CONTRACTOR.		s Reser
ONCRETE TRANSFORMER PAD AND FENCING PROVIDED AND INSTALLED BY ACTOR. INSTALL PER AEP SPECIFICATIONS. REFER TO DETAIL.		ions All Rights
TO SHEET E4.2 FOR TYPICAL TRENCH DETAILS.		escription up All
L POLE LIGHT PROVIDED AND INSTALLED BY CONTRACTOR. ACTOR SHALL PROVIDE AND INSTALL ALL DRILLING AND CONCRETE FOR THE POLE CONTRACTOR SHALL INSTALL THE CONCRETE PEDESTAL FOR THE POLE LIGHT. L.		ons and De 20 MRB Gro
GGING AND CRANE TO SET THE POLES SHALL BE BY CONTRACTOR. TYPICAL.		Revisi 0 202
ENCHING AND BACKFILL BY CONTRACTOR. ALL SPOILS REMOVED FROM THE SITE BY ACTOR. TYPICAL.		o yrigh t
ANCH CIRCUIT CONDUIT AND WIRING FOR THE POLE LIGHTING PROVIDED AND LED BY CONTRACTOR. TYPICAL.		C OI
OLT CIRCUIT AND CONTROL WIRING FOR SCOREBOARD. COORDINATE FINAL LOCATION OM GREEN COUNTY. TYPICAL. PROVIDE AND INSTALL NEMA 3R JUNCTION BOX, 6".		
 AND INSTALL NEW 13" X 24" ELECTRICAL PULL BOX, QUAZITE #PD1324BB26, AND #PG1324CA00 WITH LOGO #17. REFER TO DETAIL 3/E4.0. COORDINATE EXACT ON IN THE FIELD WITH TOM GREEN COUNTY PRIOR TO INSTALLATION. TYPICAL. E AND INSTALL NEW SOLAR LIGHTS PER SCHEDULE ON SHEET E5.0 A. 2#6 THWN, 1#10 GND, AND 1" PVC, 1 SHIELDED CONTROL CABLE. TYPICAL FOR COREBOARDS. PROVIDED AND INSTALLED BY CONTRACTOR. A. 2#10 THHN, 1#10 GND FOR 20A, 120V DUPLEX RECEPTACLE AT EACH DUGOUT. A. WIKS AND PULLBOXES ARE DRAWN FOR CLARITY. PULLBOXES SHOWN LARGER THAN SIZE. CONTRACTOR TO CONFIRM PROPOSED DUCTBANK PATHS WITH ENGINEER CONSTRUCTION. JULBOX, PER AEP REQUIREMENTS. G OVERHEAD TO BE REMOVED BY AEP. 	Project Title: TOM GREEN COUNTY PUGH PARK	Drawing Title ELECTRICAL BASEBALL AND SOFTBALL FIELD PLAN
	Check Check	Date: 05/14/2020
S Kanetzky Engineering, LLC.		Corporate Office: The Culver Road Armory, 145 Culver Road, Suite 160, Rochester, New York 14620 Phone: 585-381-9250 TBPE Firm Number: F-10615 www.mrbgroup.com
5920 W. William Cannon Bldg. 7, Suite 200 Austin, Texas 78749 (512) 329-5774. www.skaneng.com TBPE Firm No. F-2356	Sheet No. E2. of Project No.	1
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ELECTRICAL BASEBALL SOFTBALL FIELD PLA

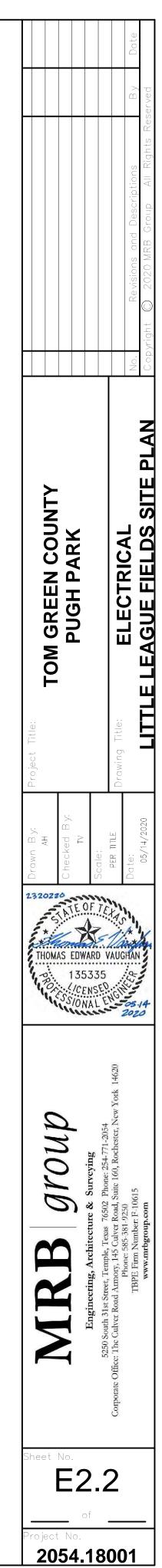
REFERENCE NOTES

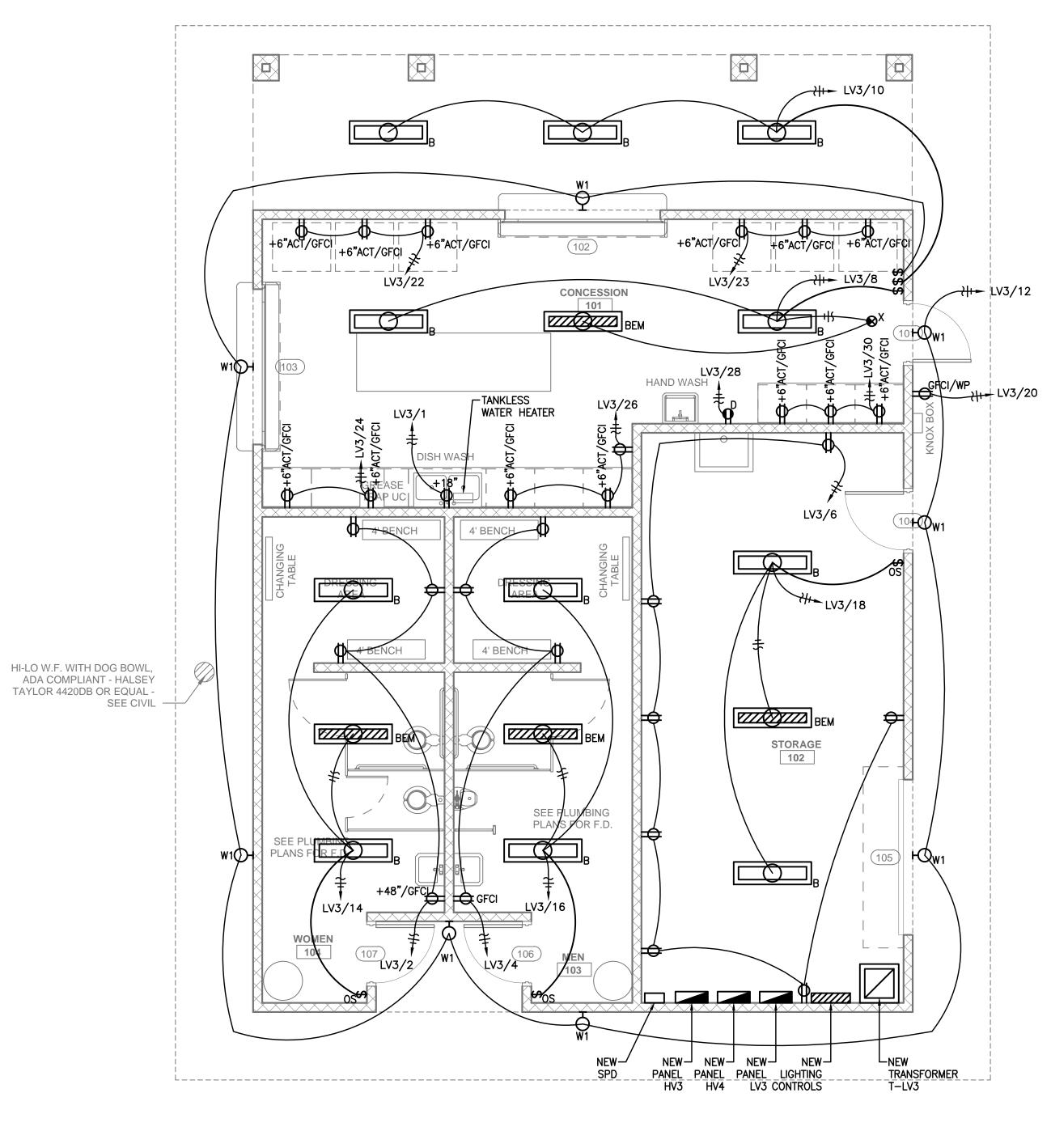
- 1 NEW ELECTRICAL SERVICE BY AEP. CONTACT STEVE MARCUM, (325) 657-2869 WITH AEP. (2) NEW PRIMARY CONDUITS AND WIRING PROVIDED AND INSTALLED BY AEP. ALL TRENCHING AND BACKFILL BY CONTRACTOR.
- (3) NEW CONCRETE TRANSFORMER PAD AND FENCING PROVIDED AND INSTALLED BY CONTRACTOR. INSTALL PER AEP SPECIFICATIONS. REFER TO DETAIL.

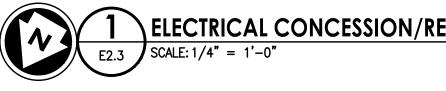


- (4) REFER TO SHEET E4.1 FOR TYPICAL TRENCH DETAILS.
- 5 TYPICAL POLE LIGHT PROVIDED BY CONTRACTOR, INSTALLED BY THE MUSCO ELECTRICAL CONTRACTOR.
- 6 THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL DRILLING AND CONCRETE FOR THE POLE BASE. THE CONTRACTOR SHALL INSTALL THE CONCRETE PEDESTAL FOR THE POLE LIGHT. TYPICAL.
- $\langle 7 \rangle$ All rigging and crane to set the poles shall be by the contractor. Typical.
- (8) ALL TRENCHING AND BACKFILL BY CONTRACTOR. ALL SPOILS REMOVED FROM THE SITE BY CONTRACTOR. TYPICAL.
- (9) ALL BRANCH CIRCUIT CONDUIT AND WIRING FOR THE POLE LIGHTING PROVIDED AND INSTALLED BY CONTRACTOR. TYPICAL.
- 10 120 VOLT CIRCUIT AND CONTROL WIRING FOR SCOREBOARD. COORDINATE FINAL LOCATION WITH TOM GREEN COUNTY. TYPICAL.
- (1) PROVIDE AND INSTALL NEW 13" X 24" ELECTRICAL PULL BOX, QUAZITE #PD1324BB26, AND COVER #PG1324CA00 WITH LOGO #17. REFER TO DETAIL 3/E4.0. COORDINATE EXACT LOCATION IN THE FIELD WITH TOM GREEN COUNTY PRIOR TO INSTALLATION. TYPICAL.
- 12 PROVIDE TWO (2) SPARE 2"C TO NEW IRRIGATION PUMP STATION. INCLUDE PULLSTRING AND CAP AT BONDS ENDS 6" AFG.

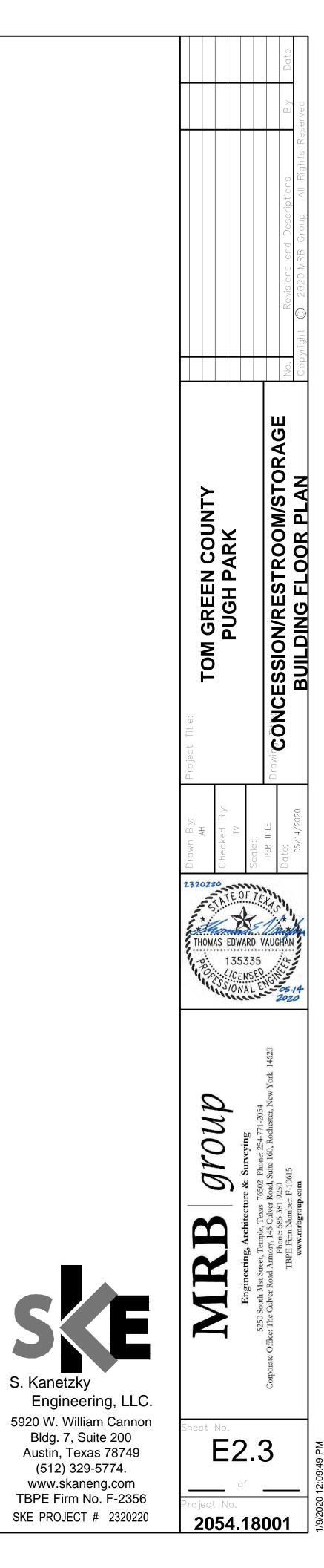
(13) PROVIDE AND INSTALL NEW SOLAR LIGHTS PER SCHEDULE ON SHEET E5.0 1 PVC, 2#6 THWN, 1#10 GND, AND 1" PVC, 1 SHIELDED CONTROL CABLE. TYPICAL FOR ALL SCOREBOARDS. PROVIDED AND INSTALLED BY CONTRACTOR. (15) 1" PVC, 2#10 THHN, 1#10 GND FOR 20A, 120V DUPLEX RECEPTACLE AT EACH DUGOUT. TYPICAL. (16) PROVIDE (1) PVC FROM PULL BOX TO POLE LIGHT FOR ALL LIGHTING CIRCUITS.







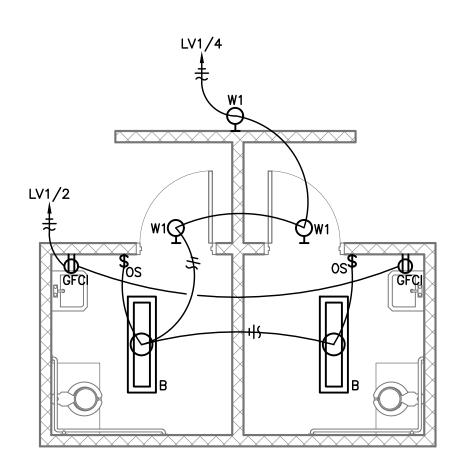
CELECTRICAL CONCESSION/RESTROOM/STORAGE - BUILDING FLOOR PLAN



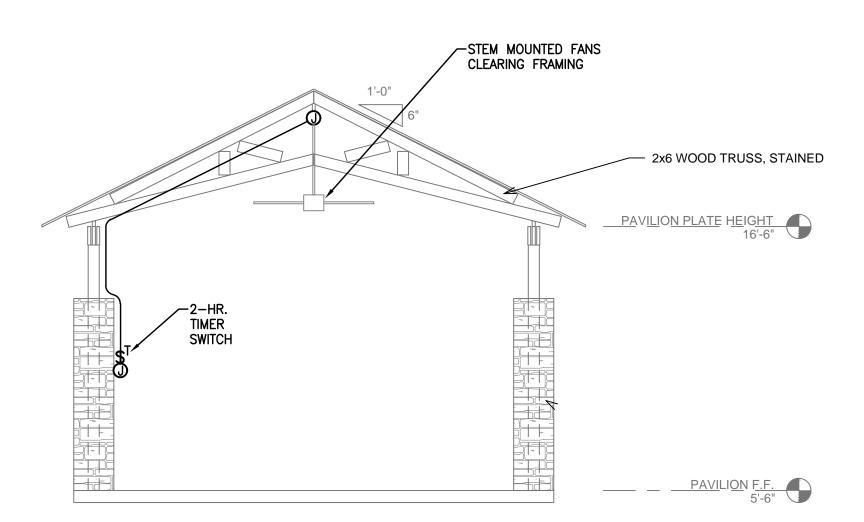
S. Kanetzky

Bldg. 7, Suite 200 Austin, Texas 78749

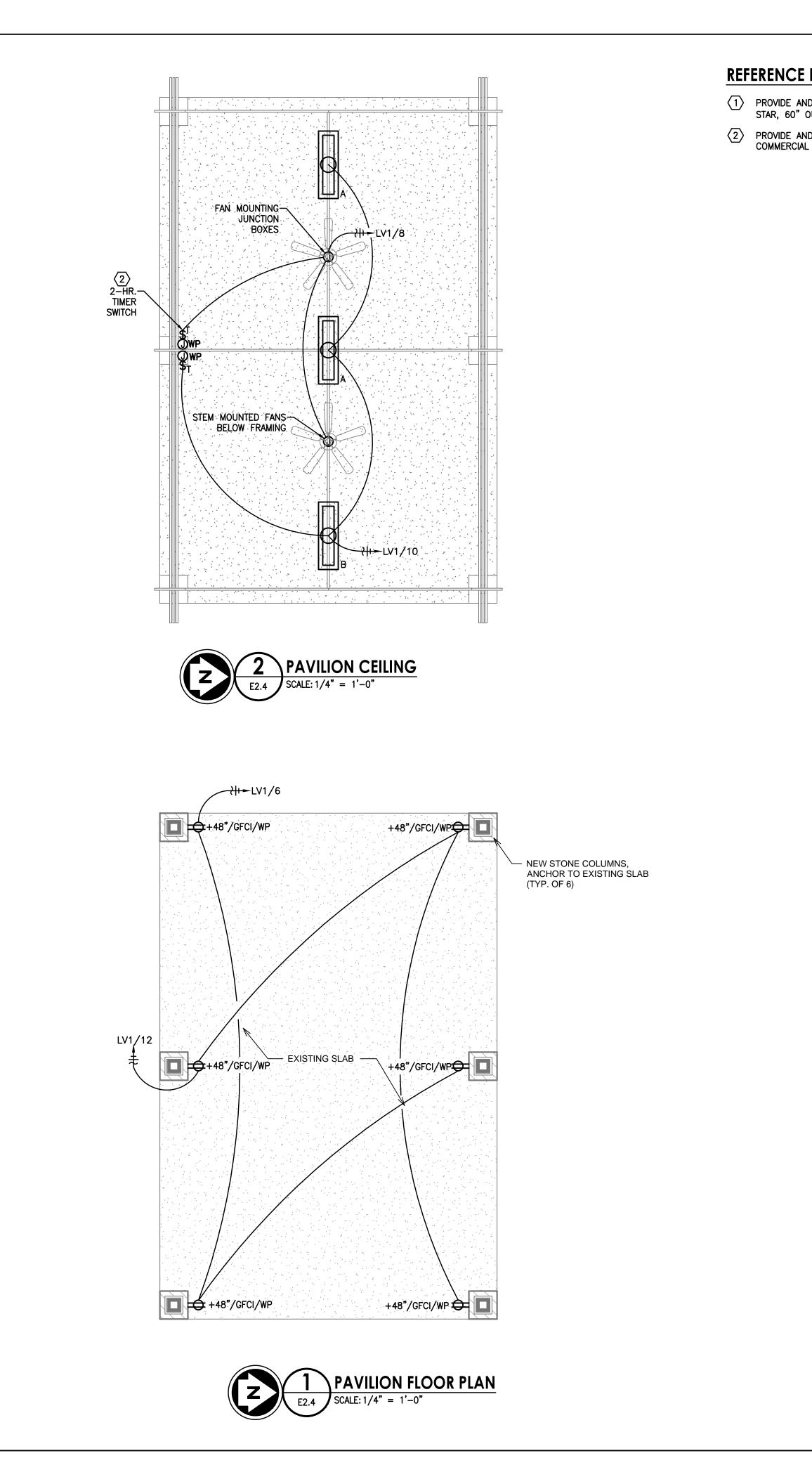
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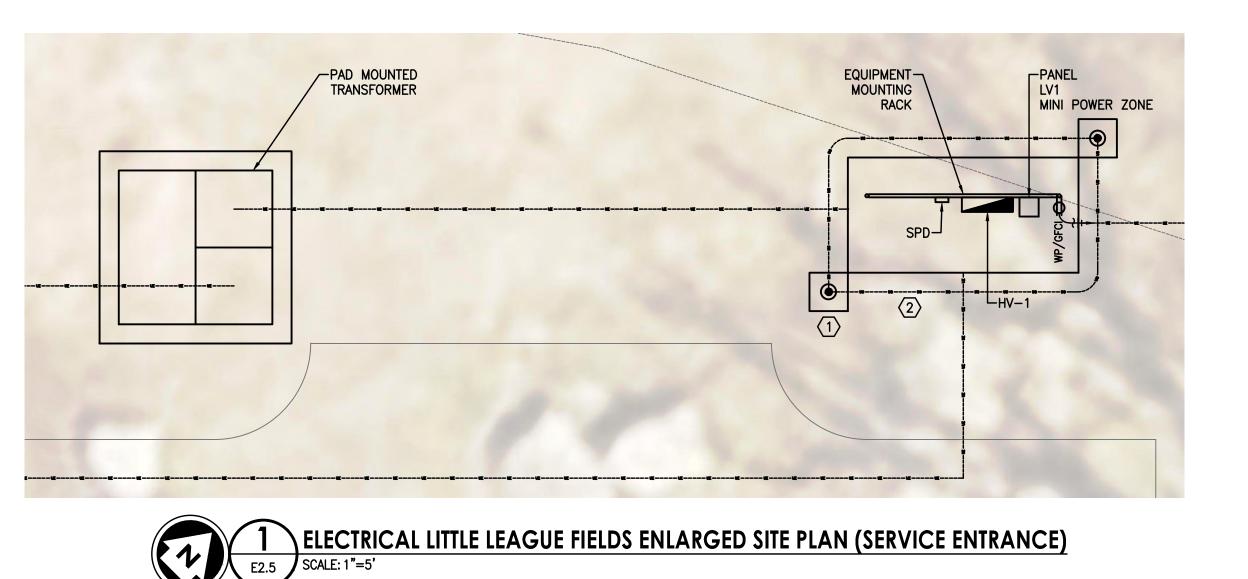






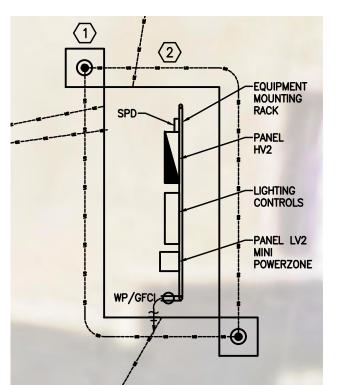
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E NOTES		
ND INSTALL WEATHER RATED FAN, MONTE CARLO 5CY60BK CYCLONE EN OUTDOOR CEILING FAN, 5 BLADES, MATTE BLACK OR EQUAL.		By
AND INSTALL 2-HOUR MAX SET TIMER SWITCH CONTROLLING FAN. NSI C AL STYLE SPINNING WOUND AUTO OFF TIME SWITCH, SPST OR EQUAL.	SERIES	R
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	TOM GREEN COUNTY PUGH PARK	TRICAL PAVILION RESTROOM PLAN
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	Project	Drawing
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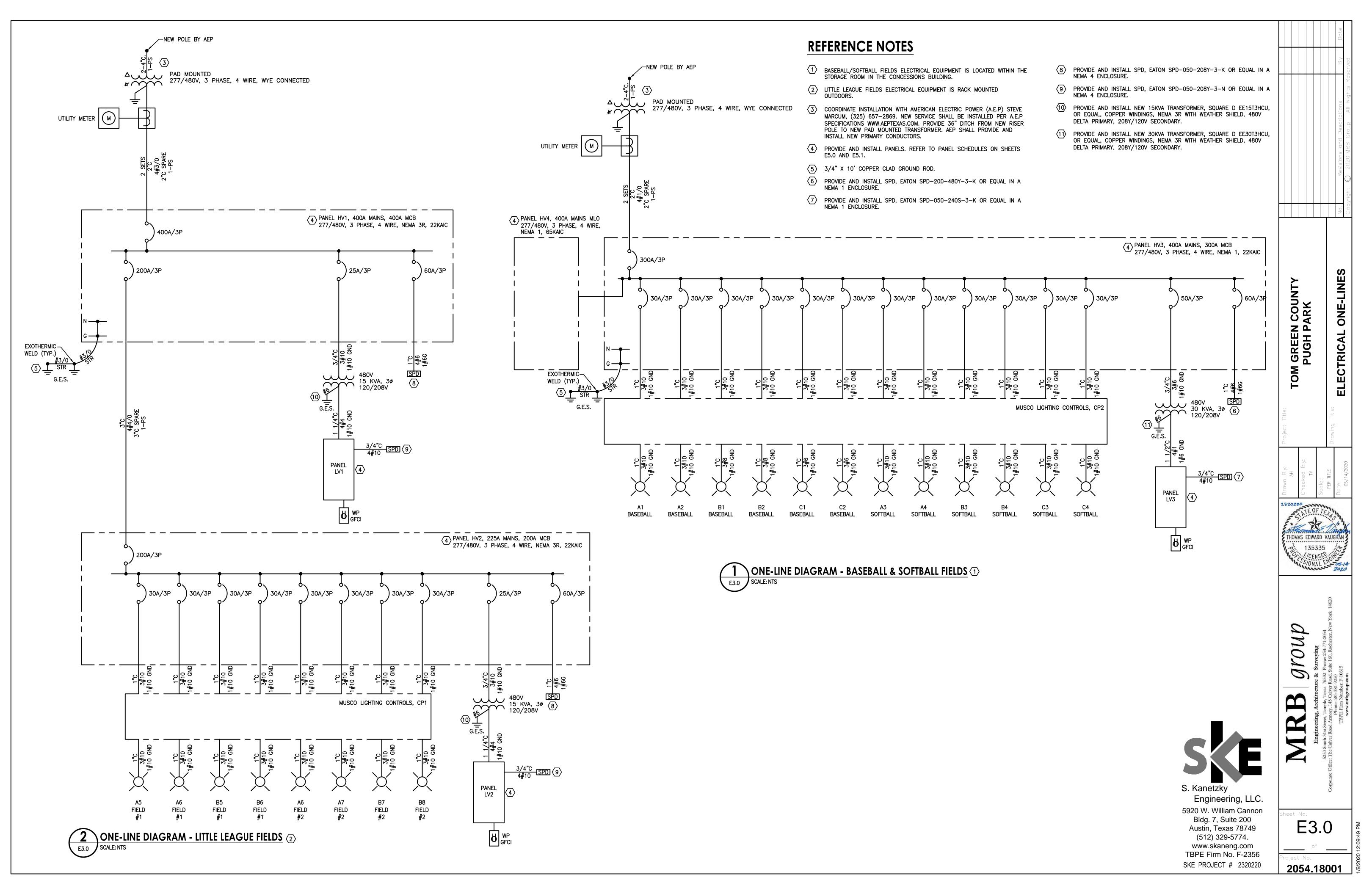


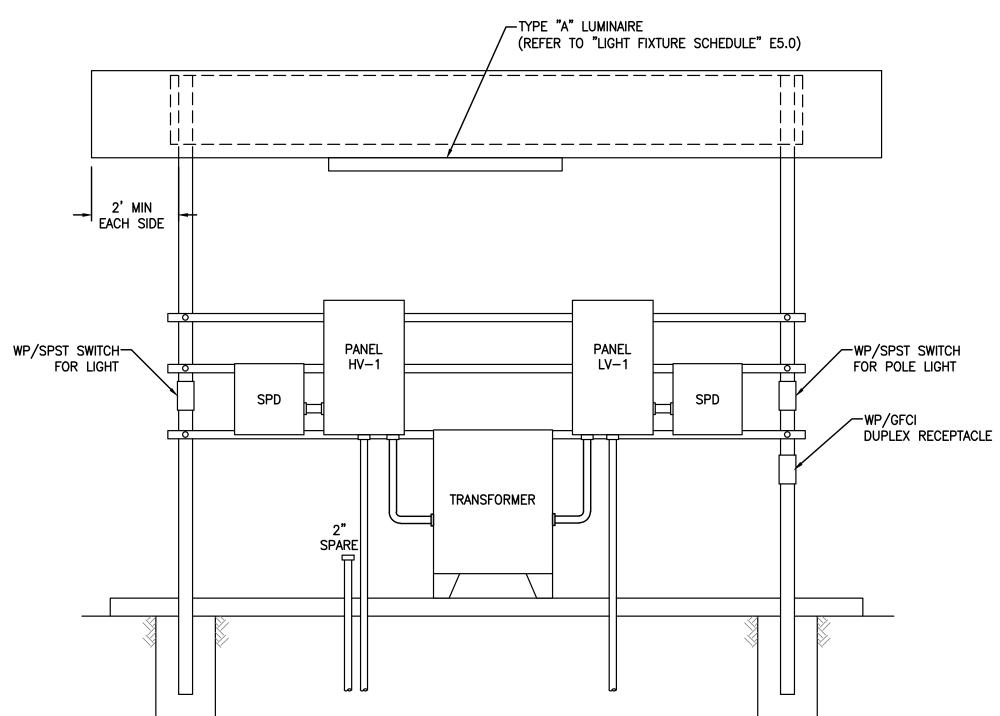


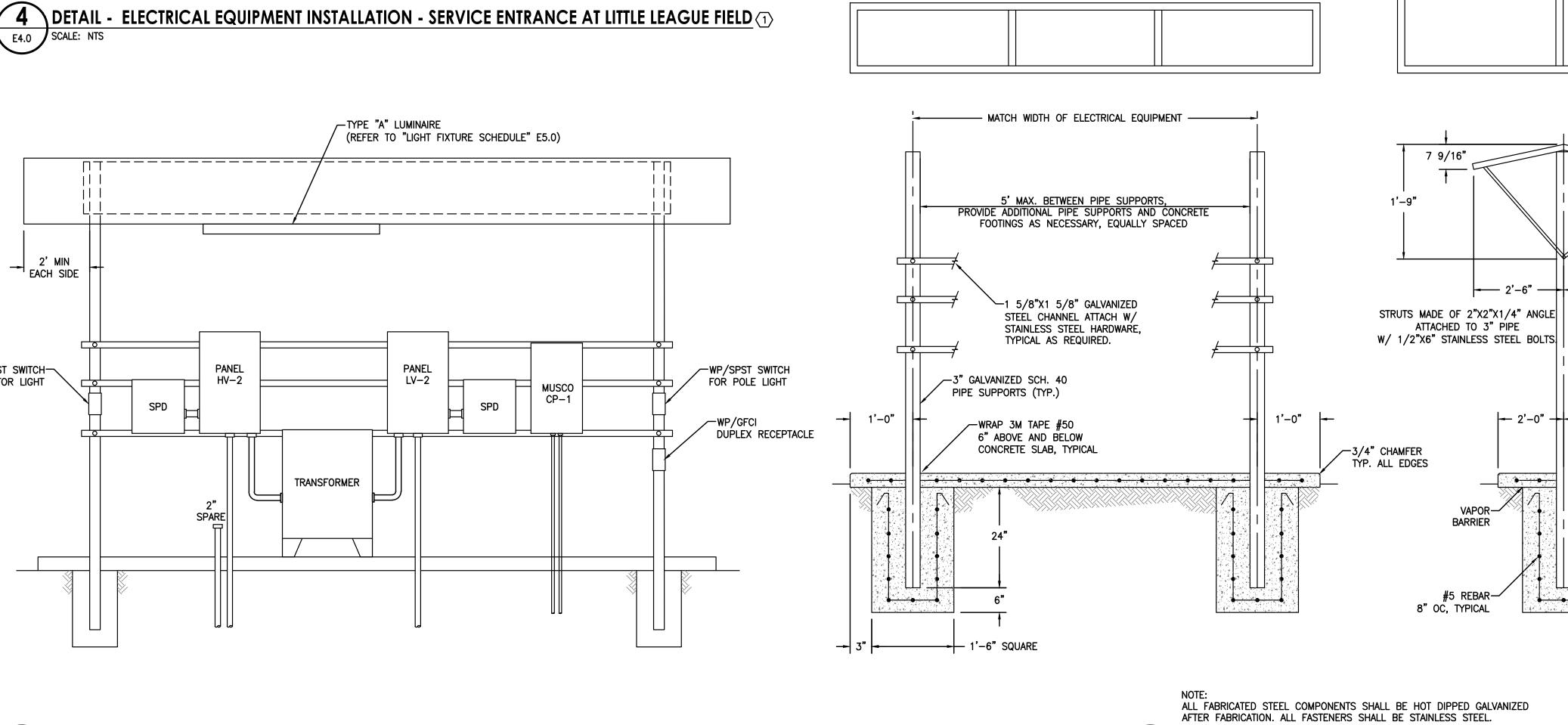
2 ELECTRICAL LITTLE LEAGUE FIELDS ENLARGED SITE PLAN (LIGHTING CONTROLS) SCALE: 1"=5'



ERENCE NOTES			Date
PROVIDE AND INSTALL GROUND RODS. REFER TO DETAIL 3/E4	.1.		By
PROVIDE AND INSTALL $\#3/0$ bare copper grounding ring. Grounding electrode system via exothermic weld.	BOND, EQUIPMENT RACKS TO		ts Rese
			ions All Righ
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			5250 South 31st Street, Temple, Texas 76502 Phone: 254-771-2054 Corporate Office: The Culver Road Armory, 145 Culver Road, Suite 160, Rochester, New York 14620 Phone: 585-381-9250 TBPE Firm Number: F-10615 www.mrbgroup.com
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	5920 W. William Cannon Bldg. 7, Suite 200 Austin Texas 78749	Sheet No.	5
	Austin, Texas 78749 (512) 329-5774. www.skaneng.com	of	5 3001 WW 67:00:76/1
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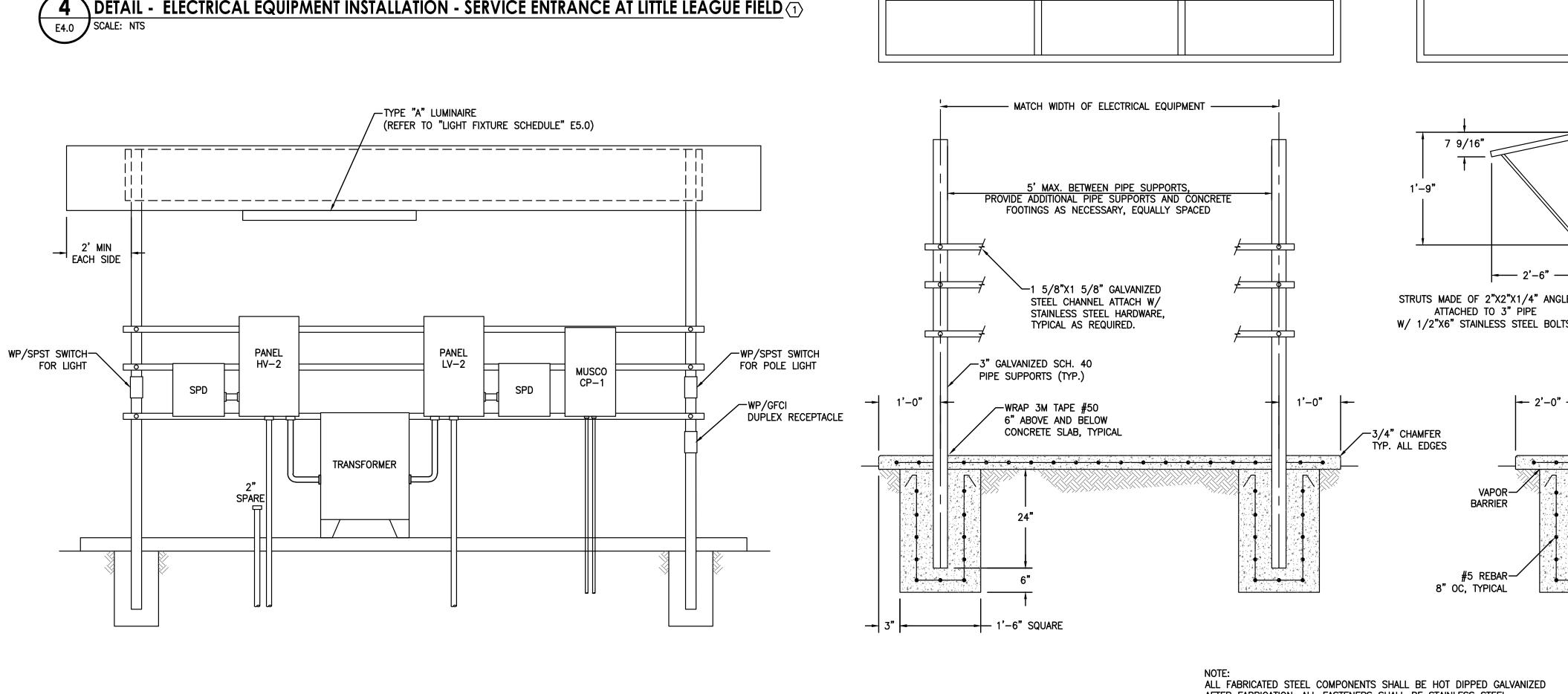
WIDTH OF ELECTRICAL EQUIPMENT +4 FT. -----

\DETAIL - TYPICAL RACK SUPPORT AND ROOFING

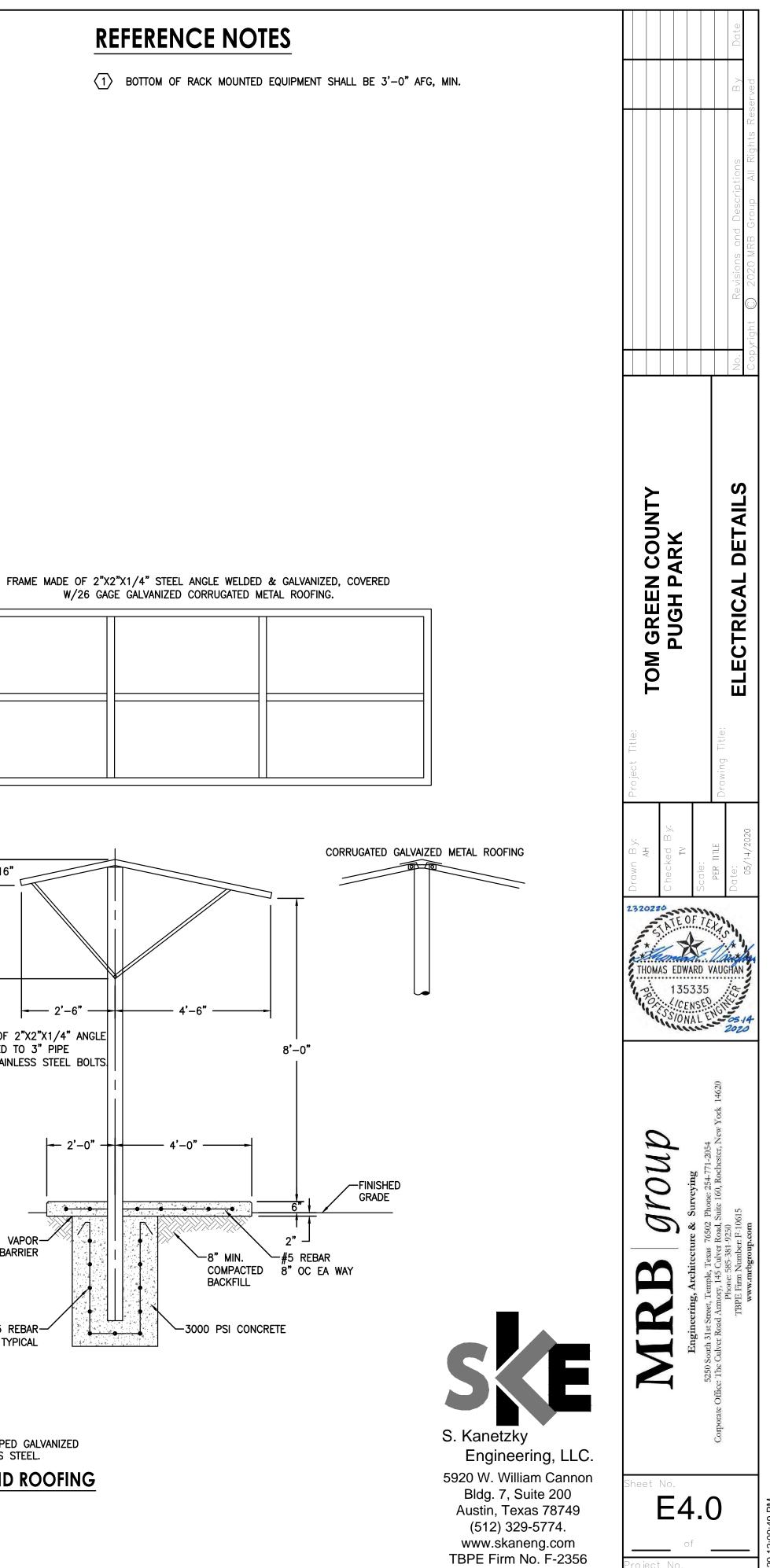
SCALE: NTS

E4.0

FRAME MADE OF 2"X2"X1/4" STEEL ANGLE WELDED & GALVANIZED, COVERED W/26 GAGE GALVANIZED CORRUGATED METAL ROOFING.

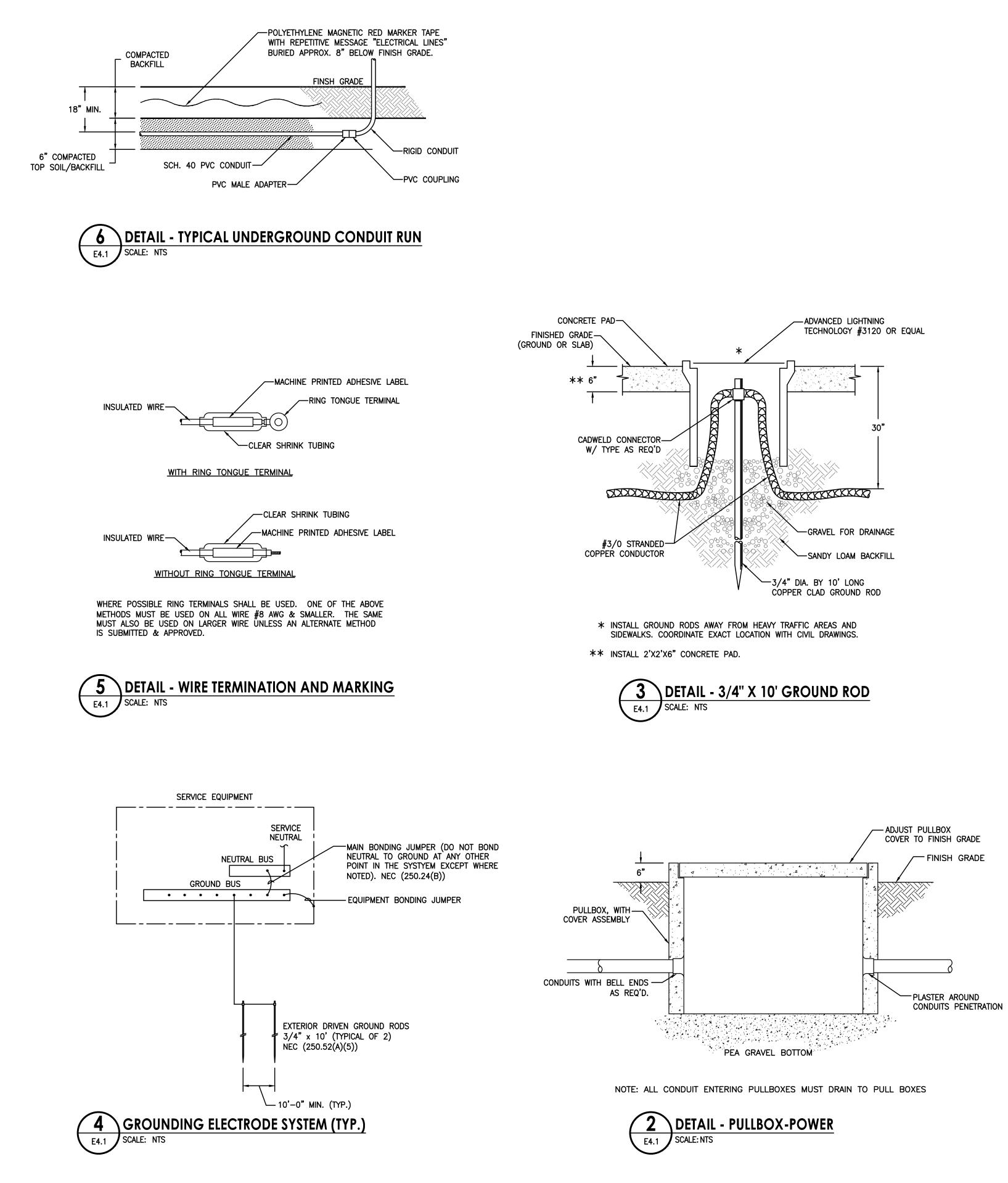


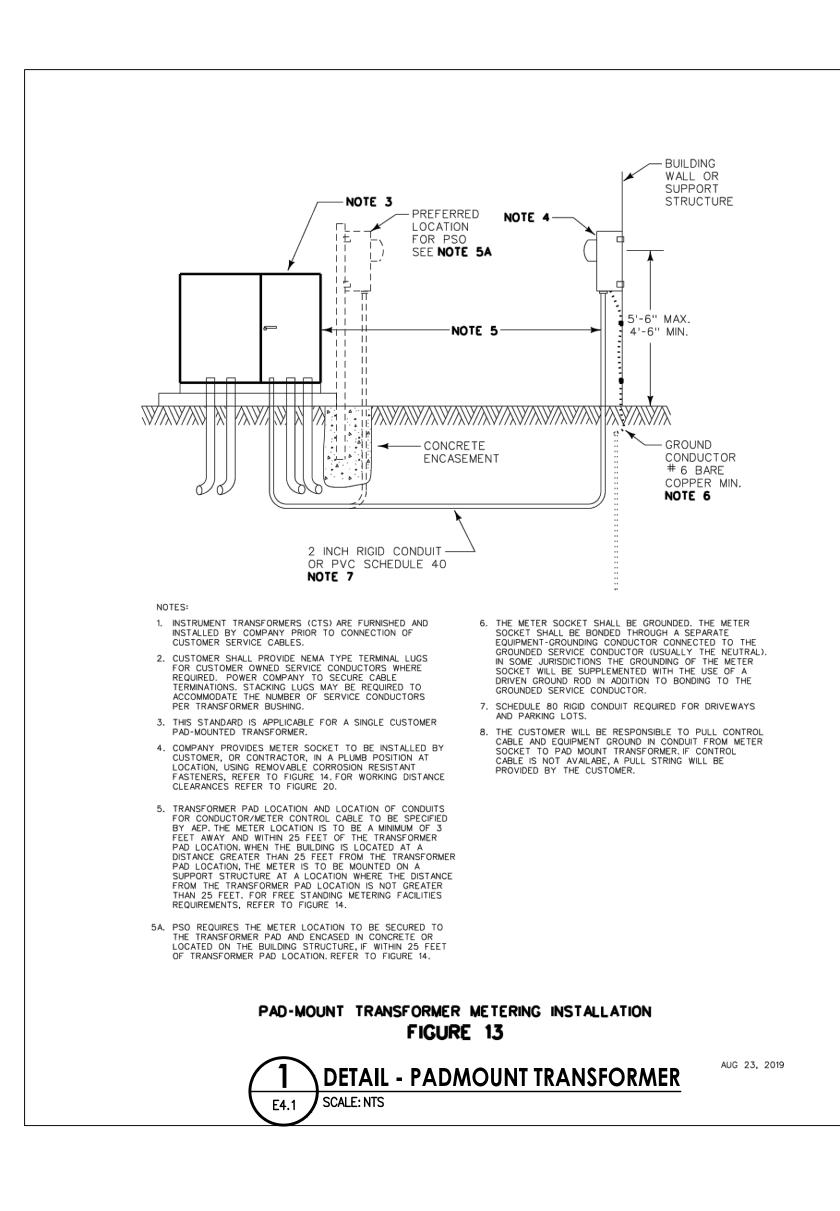


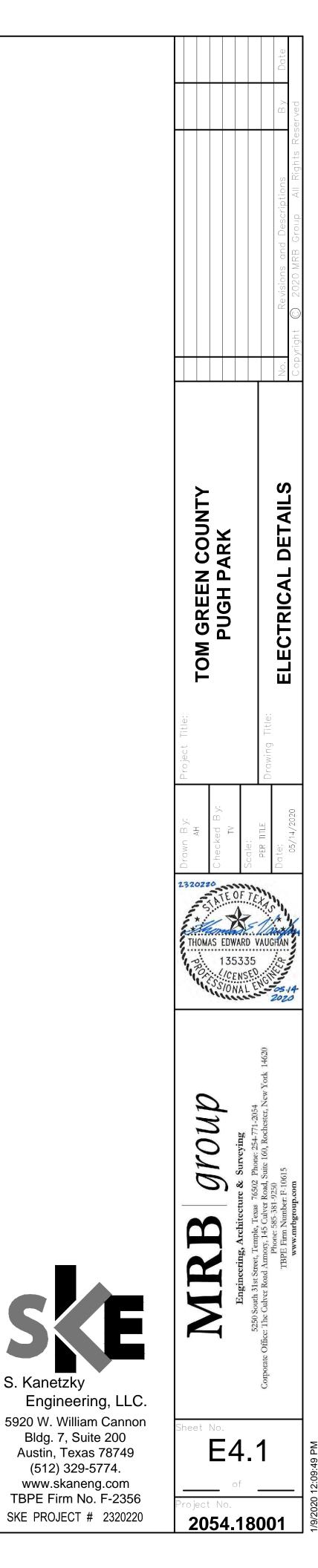


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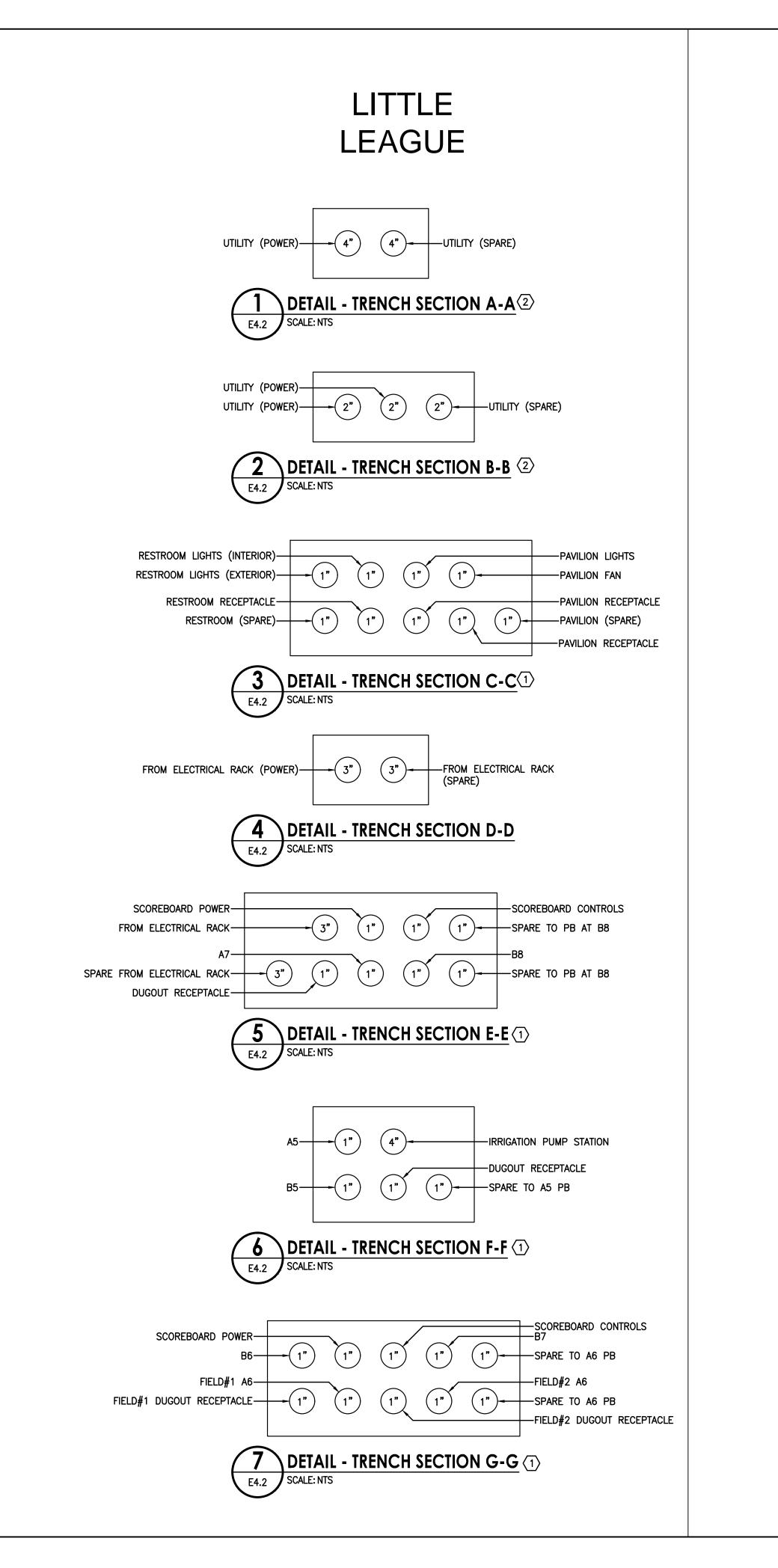


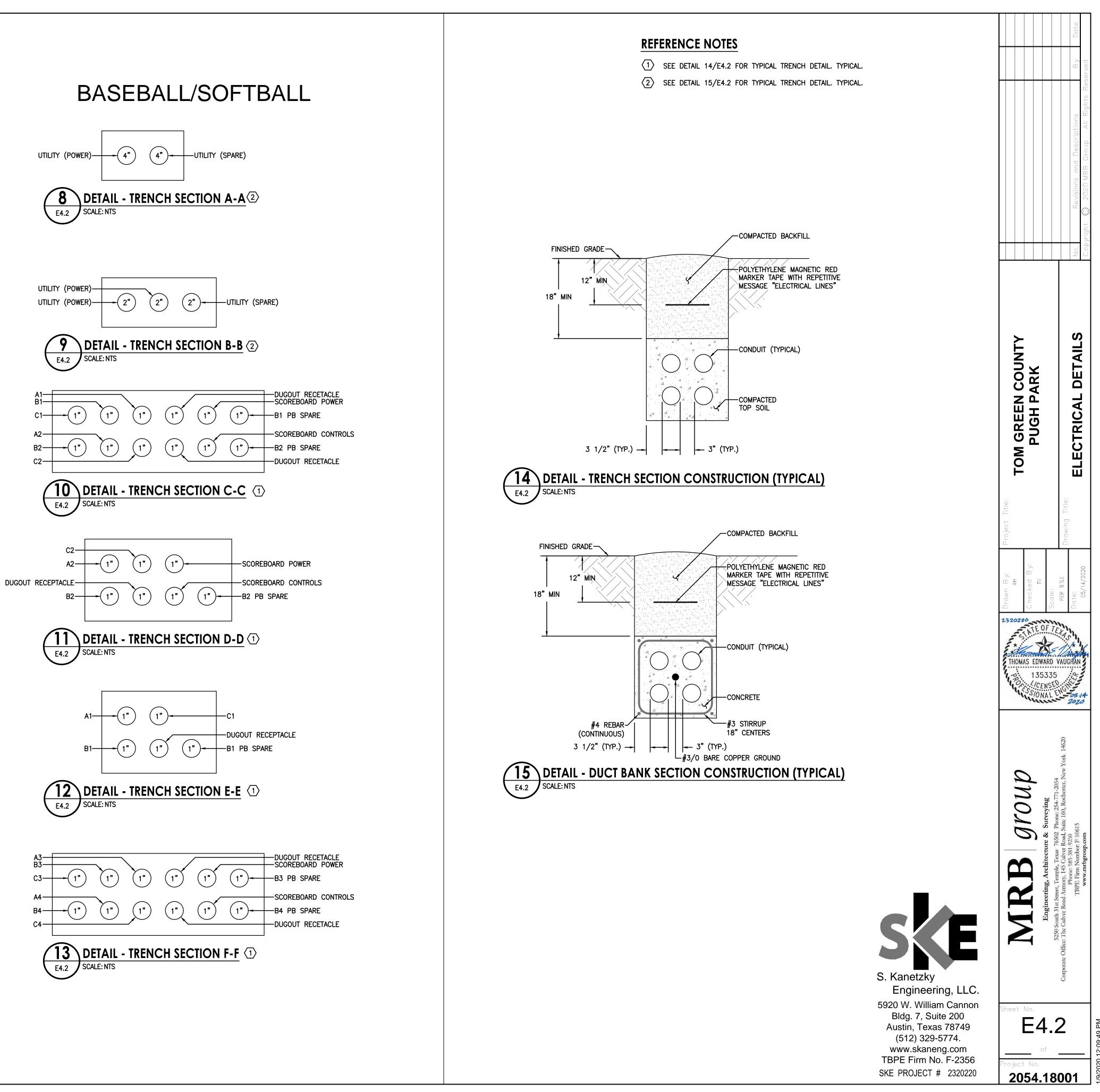
S. Kanetzky

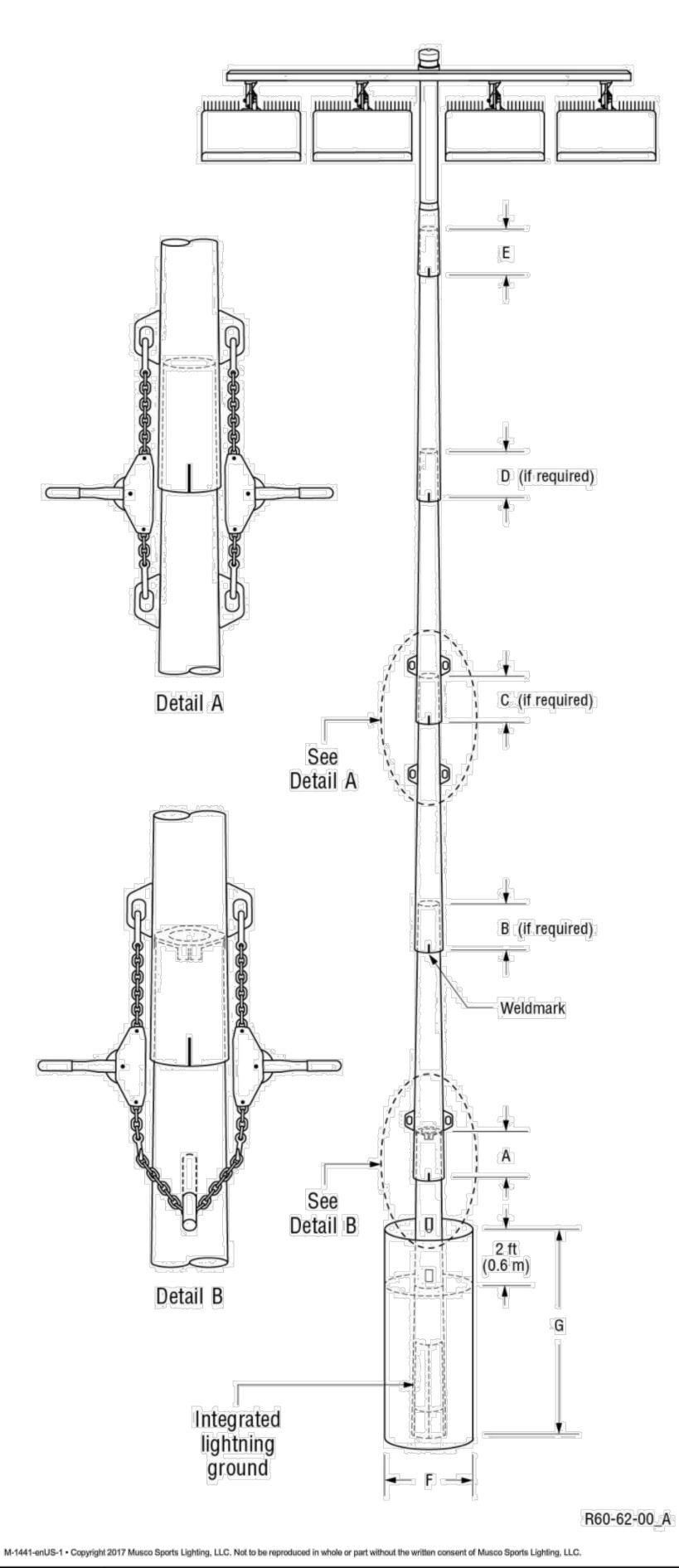
Bldg. 7, Suite 200

Austin, Texas 78749 (512) 329-5774. www.skaneng.com

TBPE Firm No. F-2356







٦ ٦	TABLE 1: POLE ASSEMBLY						
POLE ID	POLE HEIGHT ft (m)	# OF LUMINAIRES	ASSEMBLED POLE WEIGHT ³ Ib (kg)				
A1	60 (18.3)	2	873 (396)				
A2	60 (18.3)	2	873 (396)				
B1	60 (18.3)	5	1141 (518)				
B2	60 (18.3)	5	1141 (518)				
C1	60 (18.3)	5	1142 (518)				
C2	60 (18.3)	5	1142 (518)				
2-A1	70 (21.3)	5	1440 (653)				
2-A2	70 (21.3)	5	1440 (653)				
2-B1	80 (24.4)	7	3329 (1510)				
2-B2	80 (24.4)	7	3329 (1510)				
2-C1	70 (21.3)	8	2469 (1120)				
2-C2	70 (21.3)	8	2469 (1120)				

Pole Assembly Notes:

1. Steel pole should overlap concrete base and be seated tight with 1 1/2 ton come-alongs (contractor provided). Align weldmarks on steel sections before assembling.

3. Assembled pole weight includes steel sections, crossarms, luminaires, and electrical components enclosures. Section overlap must be pulled together until tight. Overlap measurement should be +/- 6 in (150 mm). 5. This document is not intended for use as an assembly instruction. See Installation Instructions: Light-Structure

SystemTM Lighting System for complete assembly procedure.

PRELIMINARY FOUNDATION AND POLE ASSEMBLY DRAWING

	TABLE 2: FOUNDATION DETAILS						
POLE	CONCRETE BASE WEIGHT	, F	G	NFORMATION ^{3,4} CONCRETE BACKFILL ^{1,2}	CUT BASE		G GROUND ⁵ SUPPLEMENTAL
	lb(kg)	in (mm)	ft (m)	yd ³ (m ³)	Drioc	TYPE	INSTRUCTION
A1	1870 (848)	30 (762)	10 (3.0)	1.2 (0.9)	NO	INTEGRATED ⁶	N/A
A2	1870 (848)	30 (762)	10 (3.0)	1.2 (0.9)	NO	INTEGRATED ⁶	N/A
B1	1870 (848)	30 (762)	10 (3.0)	1.2 (0.9)	NO	INTEGRATED 6	N/A
B2	1870 (848)	30 (762)	10 (3.0)	1.2 (0.9)	NO	INTEGRATED 6	N/A
C1	1870 (848)	30 (762)	10 (3.0)	1.2 (0.9)	NO	INTEGRATED 6	N/A
C2	1870 (848)	30 (762)	10 (3.0)	1.2 (0.9)	NO	INTEGRATED 6	N/A
2-A1	1880 (853)	30 (762)	10 (3.0)	1.2 (0.9)	NO	INTEGRATED 6	N/A
2-A2	1880 (853)	30 (762)	10 (3.0)	1.2 (0.9)	NO	INTEGRATED 6	N/A
2-B1	5300 (2404)	30 (762)	16 (4.9)	1.6 (1.2)	NO	INTEGRATED 6	N/A
2-B2	5300 (2404)	30 (762)	16 (4.9)	1.6 (1.2)	NO	INTEGRATED 6	N/A
2-C1	3780 (1715)	30 (762)	14 (4.3)	1.6 (1.2)	NO	INTEGRATED 6	N/A
2-C2	3780 (1715)	30 (762)	14 (4.3)	1.6 (1.2)	NO	INTEGRATED 6	N/A

Foundation Notes:

1. Concrete backfill is calculated to 2 ft (0.6m) below grade (no overage included). Top 2 ft (0.6m) to be class 5 soil compacted to 95% density of surrounding undisturbed soil unless otherwise specified in stamped structural design. Concrete backfill required 3000 lb/in² (20 MPa) minimum.

3. Foundation design per 2012 IBC, 115 mph, exposure category C, variation STD (Risk Category II).

4. Assumes IBC class 5 soils.

5. Standard bases include integrated lightning protection. If bases are cut, supplemental lightning protection is required. Contact Musco for materials and instruction.

6. Lightning protection is a manufacturer installed concrete encased electrode and connector. Ground connection is made when concrete base is installed and footing is poured. No additional steps required.

TABLE 2: FOUNDATION DETAILS

		S. Kanetzky	Corporate Office: The Culver Road Armory, 145 Culver Road, Suit Phone: 585-381-9250 Goil TBPE Firm Number: F-10615
n Park Baseball & Softba	II - Christoval, TX, USA	Engineering, LLC.	
: 05/18/2020 Tim Oordt ect: 198435	Scale: N/A Page: 1 of 1 Preliminary	5920 W. William Cannon Blog 7, Suite 200 (512) 329-6774. www.skaneng.com	Sheet No. E4.3 of
		TBPE Firm No. F-2356 SKE PROJECT # 2320220	Project No. 2054.18001

THE ELECTRICAL BASEBALI SOFTBALL LIGHT POLE DET

TOM GREEN COUNTY PUGH PARK

2320220 2000000

THOMAS EDWARD VAUGH

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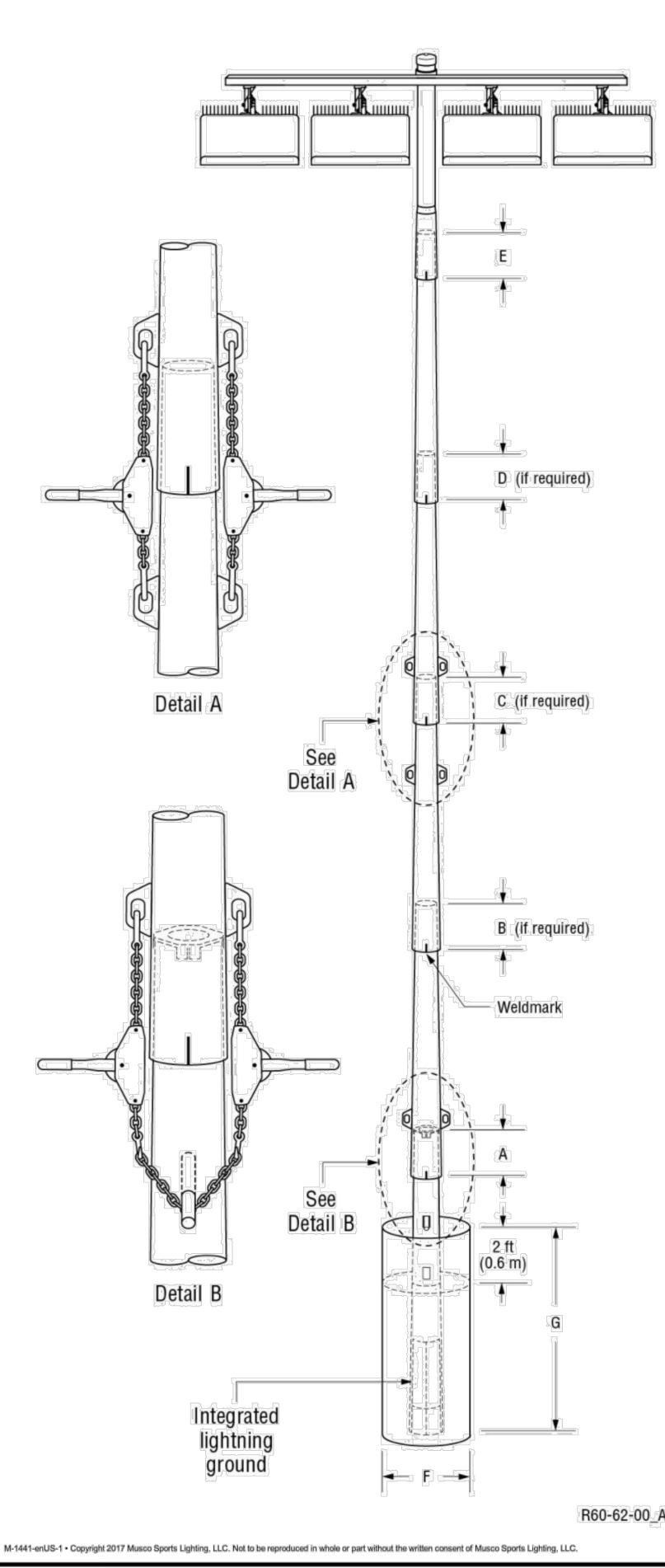


TABLE 1: POLE ASSEMBLY						
POLE ID	POLE HEIGHT ft (m)	# OF LUMINAIRES	ASSEMBLED POLE WEIGHT ³ Ib (kg)			
A1	60 (18.3)	4	1047 (475)			
A2	60 (18.3)	8	1751 (794)			
B1	70 (21.3)	5	1650 (748)			
B2	70 (21.3)	5	1650 (748)			
2-A2	60 (18.3)	4	1047 (475)			
2-B1	70 (21.3)	5	1650 (748)			
2-B2	70 (21.3)	5	1650 (748)			

Pole Assembly Notes:

R60-62-00_A

PRELIMINARY FOUNDATION AND POLE ASSEMBLY DRAWING

1. Steel pole should overlap concrete base and be seated tight with 1 1/2 ton come-alongs (contractor provided). 2. Align weldmarks on steel sections before assembling.

3. Assembled pole weight includes steel sections, crossarms, luminaires, and electrical components enclosures. 4. Section overlap must be pulled together until tight. Overlap measurement should be +/- 6 in (150 mm). 5. This document is not intended for use as an assembly instruction. See Installation Instructions: Light-Structure SystemTM Lighting System for complete assembly procedure.

	TABLE 2. TOUNDATION DETAILS						
POLE ID	CONCRETE BASE WEIGHT lb(kg)	F in (mm)	BURIAL I G ft (m)	NFORMATION ^{3,4} CONCRETE BACKFILL ^{1,2} yd ³ (m ³)	CUT BASE		G GROUND ⁵ SUPPLEMENTAL INSTRUCTION
A1	1870 (848)	30 (762)	10 (3.0)	1.2 (0.9)	NO	INTEGRATED 6	N/A
A2	2710 (1229)	30 (762)	12 (3.7)	1.5 (1.1)	NO	INTEGRATED ⁶	N/A
B1	2720 (1234)	30 (762)	12 (3.7)	1.5 (1.1)	NO	INTEGRATED ⁶	N/A
B2	2720 (1234)	30 (762)	12 (3.7)	1.5 (1.1)	NO	INTEGRATED ⁶	N/A
2-A2	1870 (848)	30 (762)	10 (3.0)	1.2 (0.9)	NO	INTEGRATED 6	N/A
2-B1	2720 (1234)	30 (762)	12 (3.7)	1.5 (1.1)	NO	INTEGRATED ⁶	N/A
2-B2	2720 (1234)	30 (762)	12 (3.7)	1.5 (1.1)	NO	INTEGRATED ⁶	N/A

Foundation Notes:

compacted to 95% density of surrounding undisturbed soil unless otherwise specified in stamped structural design.

1. Concrete backfill is calculated to 2 ft (0.6m) below grade (no overage included). Top 2 ft (0.6m) to be class 5 soil Concrete backfill required 3000 lb/in² (20 MPa) minimum.

3. Foundation design per 2012 IBC, 115 mph, exposure category C, variation STD (Risk Category II).

4. Assumes IBC class 5 soils.

5. Standard bases include integrated lightning protection. If bases are cut, supplemental lightning protection is required. Contact Musco for materials and instruction.

6. Lightning protection is a manufacturer installed concrete encased electrode and connector. Ground connection is made when concrete base is installed and footing is poured. No additional steps required.

Pugh Pa	rk Baseball &	Softball - Christoval,	TX, USA
Date:	05/18/2020	Scale:	N/A
Rep:	Tim Oordt	Page:	1 of 1
Project:	198435	Prelim	inary

TABLE 2: FOUNDATION DETAILS

				Date
				B y
TNUNC				B y Reserved
	GROUND 5 SUPPLEMENTAL INSTRUCTION			s Rights
ED 6	N/A			riptions
ED ⁶	N/A			
ED 6	N/A			ons and 20 MRB G
ED 6	N/A			Revisions © 2020 M
ED 6	N/A			
ED 6	N/A			No. Copyright
ED 6	N/A			
ection is	design. required. tion is made		Project Title: TOM GREEN COUNTY PUGH PARK	Drawing Title LECTRICAL LITTLE LEAGUE LIGHT POLE DETAILS
			HE UNDUC HE UNDUC HE UNDUC THOMAS EDWARD THOMAS EDWARD 13533 //CENSU	VAUGHAN 5
	S Kanetzky Engineering,		MARB <i>group</i> Engineering, Architecture & Surveying	5250 South 31st Street, Temple, Texas 76502 Phone: 254-771-2054 Corporate Office: The Culver Road Armory, 145 Culver Road, Suite 160, Rochester, New York 14620 Phone: 585-381-9250 TBPE Firm Number: F-10615 www.mrbgroup.com
Ĥ	920 W. William Ca Blog 7, Suite 20 (512) 329-6774 www.skaneng.co TBPE Firm No. F-2	00 749 om	Sheet No. E4. of	4
			Project No.	

2054.18001

TBPE Firm No. F-2356 SKE PROJECT # 2320220

Lighting System

Pole / Fixtur	e Summary					
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
A1-A2	70'	70'	4	TLC-LED-1200	4.68 kW	А
		16'	1	TLC-BT-575	0.58 kW	А
A3-A4	60'	60'	2	TLC-LED-900	1.78 kW	В
		16'	1	TLC-BT-575	0.58 kW	В
B1-B2	80'	80'	7	TLC-LED-1500	10.01 kW	А
		16'	1	TLC-BT-575	0.58 kW	А
B3-B4	60'	60'	5	TLC-LED-1200	5.85 kW	В
		16'	1	TLC-BT-575	0.58 kW	В
C1-C2	70'	70'	5	TLC-LED-1500	7.15 kW	А
		16'	2	TLC-BT-575	1.15 kW	А
C3-C4	60'	60'	3	TLC-LED-1200	3.51 kW	В
		16'	1	TLC-BT-575	0.58 kW	В
12			66		74.01 kW	

Circuit Summarv

Circuit	Description	Load	Fixture Qty
A	Baseball	48.28 kW	40
В	Softball	25.73 kW	26

Fixture Type Summary							
Туре	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-1200	LED 5700K - 75 CRI	1170W	136,000	>120,000	>120,000	>120,000	24
TLC-LED-900	LED 5700K - 75 CRI	890W	89,600	>120,000	>120,000	>120,000	4
TLC-LED-1500	LED 5700K - 75 CRI	1430W	160,000	>120,000	>120,000	>120,000	24
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	14

Light Level Summary

alculation Grid Summa	ry							
Grid Name	Calculation Metric		1	Illumination			Circuits	Fixture Qty
Grid Name	Galculation Metric	Ave	Min	Max	Max/Min	Ave/Min	Circuits	Fixture Qty
Baseball Spill	Horizontal Illuminance	0.05	0.01	0.22	44.49	5.26	А	40
Baseball Spill	Max Candela Metric	3587	913	8406	9.20	3.93	А	40
Baseball Spill	Max Vertical Illuminance Metric	0.13	0.02	0.42	20.16	6.52	А	40
Baseball (Infield)	Horizontal Illuminance	50.4	33	61	1.84	1.53	А	40
Baseball (Outfield)	Horizontal Illuminance	30.3	18	42	2.29	1.68	А	40
Softball Spill	Horizontal Illuminance	0.01	0	0.03	118.51		В	26
Softball Spill	Max Candela Metric	764	65	2109	32.44	11.76	В	26
Softball Spill	Max Vertical Illuminance Metric	0.03	0	0.09	64.72		В	26
Softball (Infield)	Horizontal Illuminance	51.4	34	63	1.82	1.51	В	26
Softball (Outfield)	Horizontal Illuminance	33.4	20	43	2.10	1.67	В	26

LOAD	S.F	MIN. WATT/S.F.	KVA	AMP	DEMAND FACTOR	ESTIMATED DEMAND	AMP	NEC
1. LIGHTING LOAD								
A. FIELD LIGHTING			102		1.25	128		220.12
2. GENERAL POWER/RECEPTACLE LOAD:								
A. RECEPTACLE LOAD:			25		1.00	25		220.14,220.44
4. TOTAL CONNECTED LOAD:			127			153		
5. TOTAL AMP LOAD AT 480/277 VOLT, 3PHASE				153			184	

AMPS:	100 MAINS, 100A MCB					PHASE:	3				MO	UNTING:	SURFACE	
VOLTAGE:	120/208/3PH/4W					WIRE:	4			MININ	IUM AIC	RATING:	10 KAIC	
LOCATION:	BASEBALL/SOFTBALL FIELDS (STORAGE R	OOM)									E	USSING:	COPPER	
FED FROM:	PANEL "HV3"											NE MA:	1	
CKT. NO.	SERVICE DE SCRIPTION	WIRE	BKR	POLES	KVA	A	в	С	KVA	POLES	BKR	WIRE	SERVICE DESCRIPTION	CKT. NO
1	WATER HEATER	10	20	1	0.5	1.0			0.5	1	20	12	WOMEN RECEPT	2
3	DUGOUT RECEPTACLE	10	20	1	0.5		1.0		0.5	1	20	12	MEN RECEPT	4
5	DUGOUT RECEPTACLE	10	20	1	0.5			0.6	0.1	1	20	12	STORAGE RECEPT	6
7	DUGOUT RECEPTACLE	10	20	1	0.5	0.6			0.1	1	20	12	CONCESSION LIGHTS	8
9	DUGOUT RECEPTACLE	10	20	1	0.5		0.6		0.1	1	20	12	CONCESSION EXTERIOR LIGHTS	10
11	SCOREBOARD	10	20	1	0.5			0.6	0.1	1	20	12	EXTERIOR LIGHTS	12
13	SCOREBOARD	10	20	1	0.5	0.6			0.1	1	20	12	WOMEN LIGHTS	14
15	MUSCO CONTROL POWER (CP2)	12	20	1	0.5		0.6		0.1	1	20	12	MEN LIGHTS	16
17	SPARE		20	1	0.0			0.1	0.1	1	20	12	STORAGE LIGHTS	18
19	SPARE		20	1	0.0	0.5			0.5	1	20	12	OUTDOOR RECEPT	20
21	SPARE		20	1	0.0		0.5		0.5	1	20	12	CONCESSIONS RECEPT	22
23	CONCESSIONS RECEPT	12	20	1	0.5			1.0	0.5	1	20	12	CONCESSIONS RECEPT	24
25	SPARE		20	1	0.0	0.5			0.5	1	20	12	CONCESSIONS RECEPT	26
27	SPARE		20	1	0.0		1.0		1.0	1	20	12	REFRIGERATOR RECEPT	28
29	SPARE		20	1	0.0	0.5			0.5	1	20	12	CONCESSIONS RECEPT	30
31	SPARE		20	1	0.0		0.0		0.0	1	20		SPARE	32
33	SPARE		20	1	0.0		0.0		0.0	1	20		SPARE	34
35	SPARE		20	1	0.0		0.0		0.0	1	20		SPARE	36
37	SPD		60	3	0.0		0.0		0.0	1	20		SPARE	38
39					0.0		0.0		0.0	1	20		SPARE	40
41					0.0			0.0	0.0	1	20		SPARE	42
			PHA	SE LOAD	IN KVA:	3.7	3.7	2.3						
			PHAS	ELOADI	AMPS:	31	31	19						

PANEL "LV3"

NOTE:

SQUARE D NQ

PANEL "HV-3"

PHASE: 3

WIRE: 4

AMPS:	400 MAINS 300A MCB
VOLTAGE:	480/277
LOCATION:	BASEBALL/SOFTBALL FIELDS (STORAGE ROOM)
FED FROM:	AEP TRANSFORMER

CKT. NO.	SERVICE DESCRIPTION	WIRE	BKR	POLES	KVA	Α	в	C	KVA	POLES	BKR	WIRE	SERVICE DESCRIPTION	CKT. NO.
1	POLE A1 LIGHTS (BASEBALL)	10	30	3	2.5	3.6			1.1	3	30	10	POLE A3 LIGHTS (SOFTBALL)	2
3					2.5		3.6		1.1					4
5					2.5			3.6	1.1					6
7	POLE A2 LIGHTS (BASEBALL)	10	30	3	2.5	3.6			1.1	3	30	10	POLE A4 LIGHTS (SOFTBALL)	8
9	I				2.5		3.6		1.1					10
11					2.5			3.6	1.1					12
13	POLE B1 LIGHTS (BASEBALL)	8	30	3	4.8	7.7			2.9	3	30	10	POLE B3 LIGHTS (SOFTBALL)	14
15					4.8		7.7		2.9					16
17	1				4.8			7.7	2.9					18
19	POLE B2 LIGHTS (BASEBALL)	8	30	3	4.8	7.7			2.9	3	30	10	POLE B4 LIGHTS (SOFTBALL)	20
21	I				4.8		7.7		2.9					22
23					4.8			7.7	2.9					24
25	POLE C1 LIGHTS (BASEBALL)	6	30	3	3.9	5.7			1.8	3	30	10	POLE C3 LIGHTS (SOFTBALL)	26
27					3.9		5.7		1.8					28
29					3.9			5.7	1.8				1	30
31	POLE C2 LIGHTS (BASEBALL)	6	30	3	3.9	5.7			1.8	3	30	10	POLE C4 LIGHTS (SOFTBALL)	32
33	I				3.9		5.7		1.8					34
35	1				3.9			5.7	1.8					36
37	LV3	6	50	3	10.0	10.0			0.0	3	60	6	SPD	38
39					10.0		10.0		0.0					40
41					10.0			10.0	0.0					42
			PHA	SE LOAD	IN KVA:	44.0	44.0	44.0						
			PHAS	E LOAD II	NAMPS:	159	159	159						

NOTE: 1. SQUARE D NF WITH FEED THRU LUGS

2. FOR POLE LIGHTING CIRCUITS PROVIDE CONTROL CIRCUIT LOCK-ON DEVICE TO PREVENT UNAUTHERIZED POWER INTERRUPTION TO CONTROL POWER. REFER TO MUSCO SUBMITTALS.

					PAN	EL "HV	-4"		
AMPS: VOLTAGE: LOCATION: FED FROM:	400 MAINS MLO 480/277 BASEBALL/SOFTBALL FIELDS (STORAG HV-3	E ROOM)				PHA SE: WIRE:	3 4		
CKT. NO.	SERVICE DESCRIPTION	WIRE	BKR	POLES	KVA	A	в	C	KV
1	SPACE					0.0		13 	
3	SPACE			-			0.0		
5	SPACE							0.0	
7	SPACE					0.0			
9	SPACE					14	0.0		
11	SPACE							0.0	
13	SPACE					0.0			
15	SPACE						0.0		
17	SPACE				-			0.0	
19	SPACE					0.0			
21	SPACE						0.0	22 -2	
23	SPACE							0.0	
25	SPACE					0.0			
27	SPACE				-		0.0		
29	SPACE							0.0	
31	SPACE					0.0			
33	SPACE	2,					0.0	2	
35	SPACE							0.0	
37	SPACE					0.0		-2	
39	SPACE						0.0		
41	SPACE							0.0	
			PH/	SE LOAD	IN KVA:	0.0	0.0	0.0	
			PHAS	E LOAD	AMPS:	0	0	0	

				_AMP				
TYPE	MANUFACTURER	CATALOG NO.	QTY	TYPE WATT	S FIX. WATTS	VOLTS	MOUNTING	REMARKS
A	LITHONIA	FEM L48 4000LM IMAFD MD 120 40K		LED	31	120	CEILING	1X4 LED STRIP
AEM	LITHONIA	FEM L48 4000LM IMAFD MD 120 40K		LED	31	120	CEILING	1X4 LED STRIP WITH BATTERY
W1	LUMARK	XTOR 4B-W		LED	38	120	WALL	LED FULL CUTOFF, 4000K, MOUNT 9' AFF
Х	LITHONIA	LQM S W 3 R 120/277 EL N		LED	0.92	120	WALL	EXIT LIGHT WITH BATTERY PACK
P	SELUX	DSCLS-R5-1-L65-50 SOLAR		LED	65	12	POLE	BRONZE FINISH, COORDINATE BATTERIES, PANEL, & OPERATION PROFILE WITH OV #ST747 (16' ROUND STEEL POLE)

MOUNTING: SURFACE MINIMUM AIC RATING: 22 KAIC BUSSING: COPPER NEMA: 1

MOUNTING: SURFACE MINIMUM AIC RATING: 22 KAIC BUSSING: COPPER NEMA: 1

KVA F	POLES	BKR	WIRE	SERVICE DESCRIPTION	CKT. NO
				SPACE	2
				SPACE	4
				SPACE	6
				SPACE	8
				SPACE	10
		2		SPACE	12
				SPACE	14
				SPACE	16
				SPACE	18
				SPACE	20
2				SPACE	22
2				SPACE	24
				SPACE	26
				SPACE	28
				SPACE	30
2				SPACE	32
2)				SPACE	34
				SPACE	36
				SPACE	38
				SPACE	40
				SPACE	42



Project No. 2054.18001	Sheet No. E5.0	Propriese Provide Composition Provide Composition Server Road Armory, 145 Culver Road, Suite 160, Rochester, New York 14620 Phone: 585-381-9250 TBPE Firm Number: F-10615	THOMAS EDWARD VAUGHAN	B y: AH TV TV ITLE	Project Title: Drawing Title:		Revisions and Descriptions	B	Date	
-		www.mrbgroup.com	10 × 1111 × 10	05/14/2020	EL	C op yright	Copyright 🔘 2020 MRB Group All Rights Reserved	served		
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Lighting System

	e Summary	AND TO THE OWNER		and the second se		
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
A5	60'	60'	2	TLC-LED-1200	2.34 kW	Α
		16'	1	TLC-BT-575	0.58 kW	А
A6	60'	60'	2	TLC-LED-1200	2.34 kW	А
		60'	2	TLC-LED-1200	2.34 kW	В
		16'	1	TLC-BT-575	0.58 kW	А
		16'	1	TLC-BT-575	0.58 kW	В
A7	60'	60'	2	TLC-LED-1200	2.34 kW	В
		16'	1	TLC-BT-575	0.58 kW	В
B5-B6	70'	70'	5	TLC-LED-1500	7.15 kW	А
		16'	1	TLC-BT-575	0.58 kW	А
B7-B8	70'	70'	5	TLC-LED-1500	7.15 kW	В
		16'	1	TLC-BT-575	0.58 kW	В
7			36		42.56 kW	

Circuit	Description	Load	Fixture Qty
A	Little League 1	21.28 kW	18
В	Little League 2	21.28 kW	18

ixture Type Summary							
Туре	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-1200	LED 5700K - 75 CRI	1170W	136,000	>120,000	>120,000	>120,000	8
TLC-LED-1500	LED 5700K - 75 CRI	1430W	160,000	>120,000	>120,000	>120,000	20
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	8

Light Level Summary

Calculation Grid Summary	/								
Grid Name	Calculation Metric		1000		Circuits	Fixture Qty			
Sha Name	Calculation Metric	Ave	Min	Max	Max/Min	Ave/Min	oncuits	T IALUTE GLY	
Little League 1 Spill	Horizontal Illuminance	0.04	0	0.10	0.00		А	18	
Little League 1 Spill	Max Candela Metric	3912	23.8	14323	602.61	164.57	А	18	
Little League 1 Spill	Max Vertical Illuminance Metric	0.11	0	0.27	1720.23		А	18	
Little League 1 (Infield)	Horizontal Illuminance	51.1	35	62	1.76	1.46	А	18	
Little League 1 (Outfield)	Horizontal Illuminance	34.1	21	42	2.00	1.63	А	18	
Little League 2 Spill	Horizontal Illuminance	0.05	0	0.11	782.74		В	18	
Little League 2 Spill	Max Candela Metric	6661	140	14819	106.03	47.66	В	18	
Little League 2 Spill	Max Vertical Illuminance Metric	0.15	0	0.33	341.15		В	18	
Little League 2 (Infield)	Horizontal Illuminance	50.7	35	62	1.80	1.45	В	18	
Little League 2 (Outfield)	Horizontal Illuminance	32.8	21	43	2.03	1.56	В	18	

ELECTRICAL LOAD ANALYSIS

	-							
LOAD	S.F	MIN. WATT/S.F.	KVA	AMP	DEMAND FACTOR	ESTIMATED DEMAND	AMP	NEC
							-	
1. LIGHTING LOAD								
A. FIELD LIGHTING			60		1.25	75		220.12
2. GENERAL POWER/RECEPTACLE LOAD:								
A. RECEPTACLE LOAD:			30		1.00	30		220.14,220.44
4. TOTAL CONNECTED LOAD:			90			105		
5. TOTAL AMP LOAD AT 480/277 VOLT, 3PHASE				108			126	

PANEL "HV-1"

PHASE: 3

WIRE: 4

VOLTAGE: 480/277 LOCATION: SERVICE ENTRANCE EQUIPMENT RACK

FED FROM: AEP TRANSFORMER

400 MAINS 400A MCB

AMPS:

1		WIRE	BKR	POLES	KVA	A	B	C	KVA	POLES	BKR	WIRE	SERVICE DESCRIPTION	CKT. NO
	HV-2	#4/0	200	3	44.0	49.0			5.0	3	25	10	LV1	2
3	1				44.0		49.0	12	5.0	-7				4
5					44.0			49.0	5.0					6
7	SPACE					0.0							SPACE	8
9	SPACE						0.0						SPACE	10
11	SPACE							0.0					SPACE	12
13	SPACE					0.0							SPACE	14
15	SPACE				-		0.0						SPACE	16
17	SPACE							0.0					SPACE	18
19	SPACE					0.0		-					SPACE	20
21	SPACE						0.0						SPACE	22
23	SPACE							0.0					SPACE	24
25	SPACE					0.0							SPACE	26
27	SPACE				e		0.0						SPACE	28
29	SPACE				-			0.0					SPACE	30
31	SPACE					0.0							SPACE	32
33	SPACE						0.0						SPACE	34
35	SPACE							0.0					SPACE	36
37	SPACE					0.0							SPACE	38
39	SPACE						0.0						SPACE	40
41	SPACE							0.0					SPACE	42
			PHA	SE LOAD	IN KVA:	49.0	49.0	49.0						

1. SQUARE D NF NOTE:

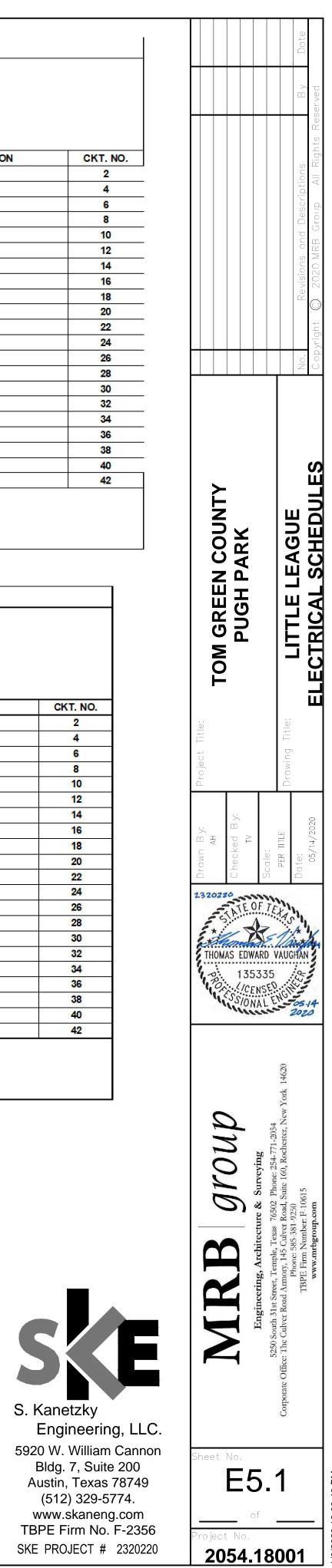
PA	NEL	"Ľ	V1	

AMPS:	100 MAINS, 60A MCB					PHASE:	3
VOLTAGE:	120/208/3PH/4W					WIRE:	4
LOCA TION:	SERVICE ENTRANCE EQUIPMENT RACK						
FED FROM:	PANEL "HV1"						
CKT. NO.	SERVICE DESCRIPTION	WIRE	BKR	POLES	KVA	Α	в
1	CANOPYLIGHTS	12	20	1	0.1	0.6	
3	CANOP Y RECEP T	12	20	1	0.5		1.0
5	SPARE		20	1	0.0		
7	SPARE		20	1	0.0	0.1	

CKT. NO.	SERVICE DESCRIPTION	WIRE	BKR	POLES	KVA	A	в	С	KVA	POLES	BKR	WIRE	SERVICE DESCRIPTION	CKT. NO.
1	CANOPYLIGHTS	12	20	1	0.1	0.6			0.5	1	20	12	RESTROOM RECEPT	2
3	CANOP Y RECEP T	12	20	1	0.5		1.0		0.5	1	20	12	RES TROOM LIGHTS	4
5	SPARE		20	1	0.0			0.1	0.1	1	20	12	PAVILION RECEPT	6
7	SPARE		20	1	0.0	0.1			0.1	1	20	12	PAVILION FANS	8
9	SPARE		20	1	0.0		0.1		0.1	1	20	12	PAVILION LIGHTS	10
11	SPARE		20	1	0.0			0.1	0.1	1	20	12	PAVILION RECEPT	12
13	SPARE		20	1	0.0	0.0			0.0	1	20		SPARE	14
15	SPARE		20	1	0.0		0.0		0.0	1	20	2	SPARE	16
17	SPARE		20	1	0.0			0.0	0.0	1	20		SPARE	18
19	SPARE		20	1	0.0	0.0			0.0	1	20		SPARE	20
21	SPARE		20	1	0.0		0.0		0.0	1	20		SPARE	22
23	SPARE		20	1	0.0			0.0	0.0	1	20		SPARE	24
25	SPARE		20	1	0.0	0.0		2.	0.0	1	20		SPARE	26
27	SPARE		20	1	0.0		0.0		0.0	1	20		SPARE	28
29	SPARE		20	1	0.0	0.0			0.0	1	20		SPARE	30
31	SPARE		20	1	0.0		0.0		0.0	1	20		SPARE	32
33	SPARE		20	1	0.0		0.0		0.0	1	20		SPARE	34
35	SPARE		20	1	0.0		0.0	3.	0.0	1	20		SPARE	36
37	SPD		60	3	0.0		0.0		0.0	1	20		SPARE	38
39					0.0		0.0		0.0	1	20		SPARE	40
41					0.0			0.0	0.0	1	20		SPARE	42
	•		PHA	SE LOAD	IN KVA:	0.7	1.1	0.2	-					
			PHA S	E LOAD IN	AMPS:	6	9	2						

MOUNTING: SURFACE MINIMUM AIC RATING: 22 KAIC BUSSING: COPPER NEMA: 3R

MOUNTING: SURFACE MINIMUM AIC RATING: 10 KAIC BUSSING: COPPER NEMA: 3R



SKE PROJECT # 2320220

MPS:														
	225 MAINS 200A MCB					PHA SE:	3				MO	UNTING:	SURFACE	
OLTAGE:	480/277					WIRE:	4			MININ	NUM AIC	RATING:	22 KAIC	
OCATION:	LITTLE LEAGUE EQUIPMENT RACK										E	USSING:	COPPER	
ED FROM:	HV-1											NEMA:	3R	
CKT. NO.	SERVICE DESCRIPTION	WIRE	BKR	POLES	KVA	Α	в	C	KVA	POLES	BKR	WIRE	SERVICE DESCRIPTION	CKT. NO
1	POLE A5 LIGHTS (LITTLE LEAGUE FIELD 1)	10	30	3	1.5	3.0			1.5	3	30	10	POLE A6 LIGHTS (LITTLE LEAGUE FIELD 2)	2
3					1.5		3.0		1.5					4
5		-		а. 	1.5			3.0	1.5	-		-		6
7	POLE A6 LIGHTS (LITTLE LEAGUE FIELD 1)	10	30	3	1.5	3.0			1.5	3	30	10	POLE A7 LIGHTS (LITTLE LEAGUE FIELD 2)	8
9					1.5		3.0	1	1.5					10
11					1.5			3.0	1.5					12
13	POLE B5 LIGHTS (LITTLE LEAGUE FIELD 1)	10	30	3	3.5	7.0			3.5	3	30	10	POLE B7 LIGHTS (LITTLE LEAGUE FIELD 2)	14
15					3.5		7.0		3.5					16
17					3.5			7.0	3.5					18
19	POLE B5 LIGHTS (LITTLE LEAGUE FIELD 1)	10	30	3	3.5	7.0			3.5	3	30	10	POLE B8 LIGHTS (LITTLE LEAGUE FIELD 2)	20
21	Ú II.				3.5		7.0	-	3.5					22
23					3.5			7.0	3.5					24
25	SPACE				0.0	1.8		~	1.8				SPACE	26
27	SPACE				0.0		1.8		1.8				SPACE	28
29	SPACE	·			0.0			1.8	1.8		c	-	SPACE	30
31	SPACE	<i>1</i> /			0.0	1.8		17	1.8	1/			SPACE	32
33	SPACE				0.0		1.8		1.8			_	SPACE	34
35	SPACE				0.0			1.8	1.8				SPACE	36
37	LV2	8	40	2	7.5	7.5			0.0	3	60	6	SPD	38
39	1	×			7.5		7.5		0.0					40
41	SPACE			SE LOAD	0.0	31.1	31.1	0.0 23.6	0.0					42

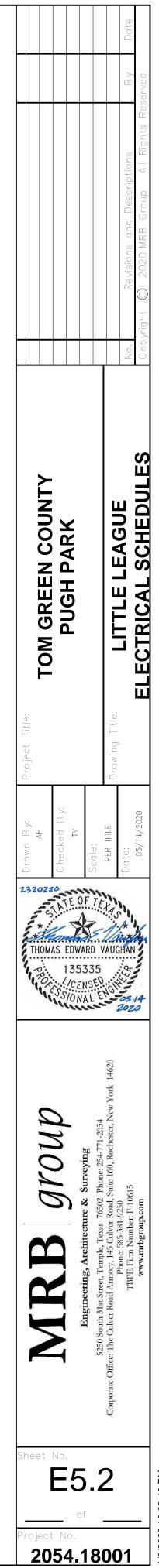
NOTE:

1. SQUARE D NF

NOTE: 2. FOR POLE LIGHTING CIRCUITS PROVIDE CONTROL CIRCUIT LOCK-ON DEVICE TO PREVENT UNAUTHERIZED POWER INTERRUPTION TO CONTROL POWER. REFER TO MUSCO SUBMITTALS.

PA	N	EL	"	LV2'
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AMPS:	100 MAINS, 60A MCB					PHASE:	3				MO	UNTING: SU	JRFACE	
OLTAGE:	120/208/3PH/4W					WIRE:	4			MINIM		RATING: 10	KAIC	
OCA TION:	LITTLE LEAGUE EQUIPMENT RACK											USSING: CO		
ED FROM	PANEL "HV2"											NEMA: 3R		
CKT. NO.	SERVICE DESCRIPTION	WIRE	BKR	POLES	KVA	Α	в	С	KVA	POLES	BKR	WIRE	SERVICE DESCRIPTION	CKT. NO
1	SPARE		20	1	0.0	0.5			0.5	1	20	12	CANOPY LIGHT	2
3	DUGOUT RECEPTACLE	10	20	1	0.5		1.0		0.5	1	20	12	CANOPY RECEPT	4
5	DUGOUT RECEPTACLE	10	20	1	0.5			0.5	0.0	1	20		SPARE	6
7	DUGOUT RECEPTACLE	10	20	1	0.5	0.5			0.0	1	20		SPARE	8
9	DUGOUT RECEPTACLE	10	20	1	0.5		0.5		0.0	1	20		SPARE	10
11	SCOREBOARD	10	20	1	0.5			0.5	0.0	1	20		SPARE	12
13	SCOREBOARD	10	20	1	0.5	0.5			0.0	1	20		SPARE	14
15	MUSCO CONTROL POWER (CP1)	12	20	1	0.5		0.5		0.0	1	20		SPARE	16
17	SPARE		20	1	0.0			0.0	0.0	1	20		SPARE	18
19	SPARE		20	1	0.0	0.0			0.0	1	20		SPARE	20
21	SPARE		20	1	0.0		0.0		0.0	1	20	a ta	SPARE	22
23	SPARE		20	1	0.0			0.0	0.0	1	20	ta an Araba	SPARE	24
25	SPARE		20	1	0.0	0.0			0.0	1	20		SPARE	26
27	SPARE		20	1	0.0		0.0		0.0	1	20		SPARE	28
29	SPARE		20	1	0.0	0.0			0.0	1	20		SPARE	30
31	SPARE		20	1	0.0		0.0		0.0	1	20	1	SPARE	32
33	SPARE		20	1	0.0		0.0		0.0	1	20		SPARE	34
35	SPARE		20	1	0.0		0.0		0.0	1	20		SPARE	36
37	SPD		60	3	0.0		0.0		0.0	1	20		SPARE	38
39					0.0		0.0		0.0	1	20		SPARE	40
41					0.0			0.0	0.0	1	20		SPARE	42



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