

MINOR SITE PLANS

for

VICTOR HART PARK RESTROOM / CONCESSION BUILDING

in

INDIAN RIVER COUNTY, FLORIDA

MARCH 2024

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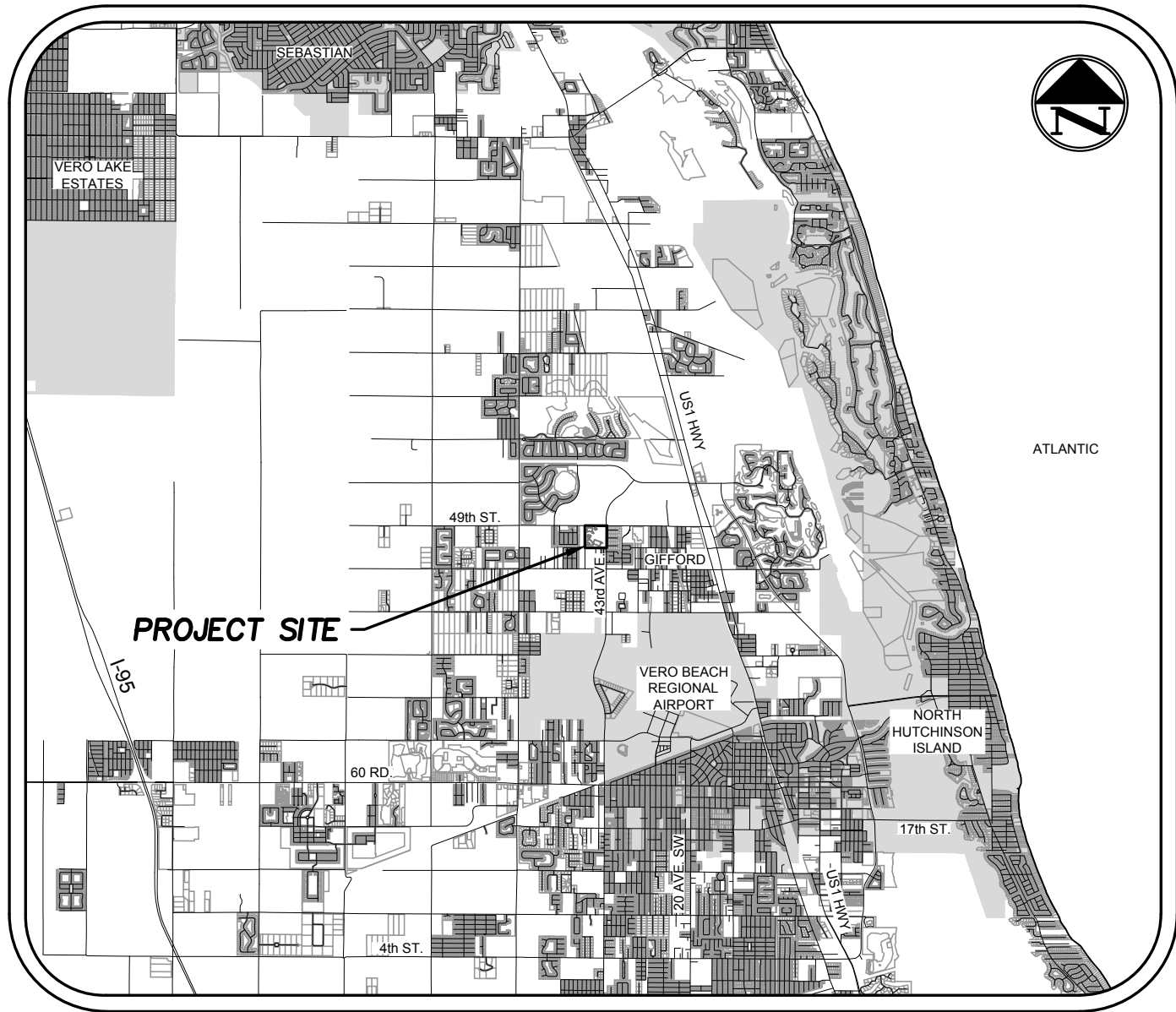
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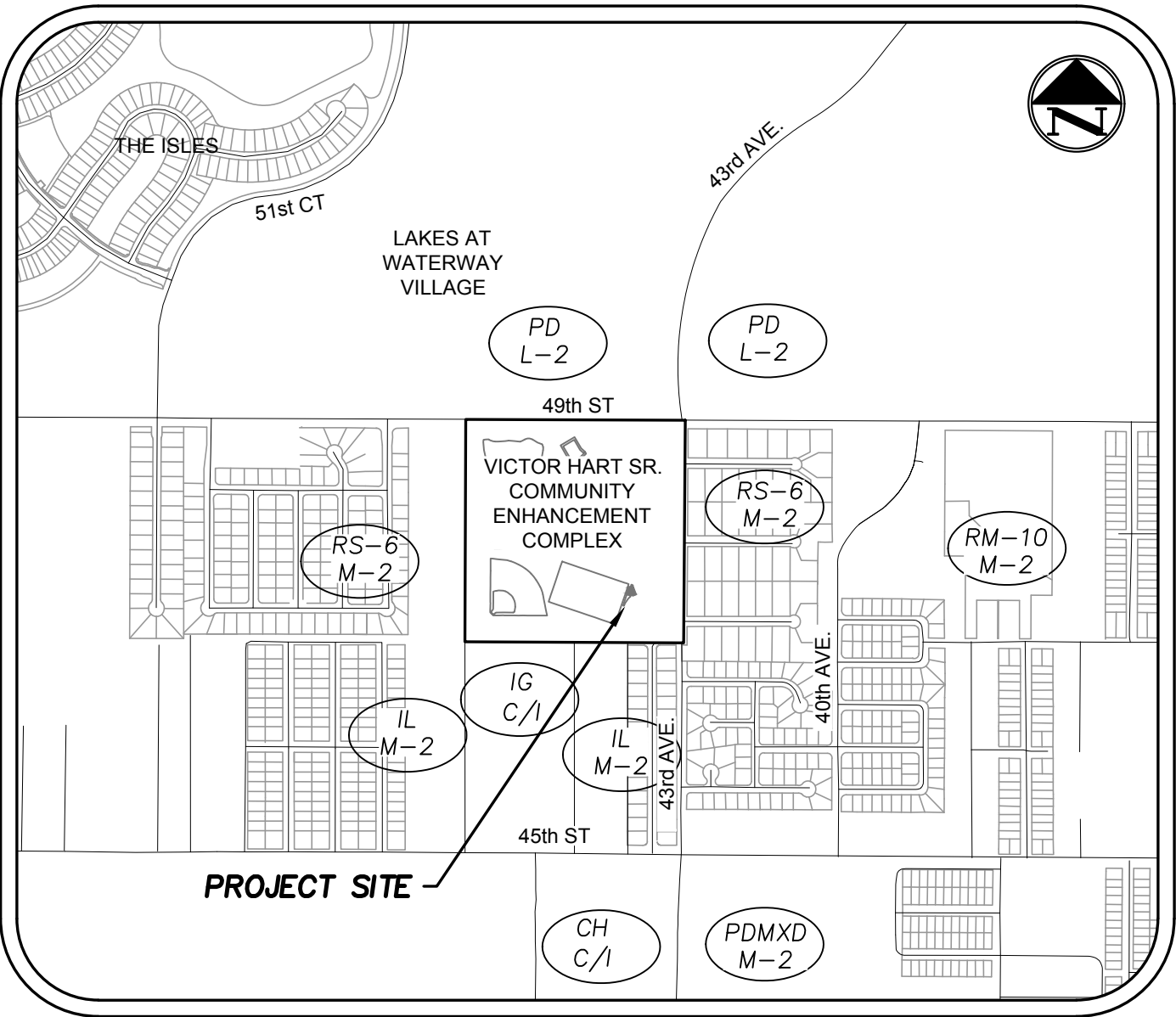
LOCATION MAP

SCALE: 1" = 10,000'



VICINITY MAP

SCALE: 1" = 1,000'



OWNER / APPLICANT

INDIAN RIVER COUNTY PARKS, RECREATION, AND CONSERVATION DEPT.
1590 9TH STREET SW
VERO BEACH, FLORIDA 32962
Ph. (772) 226-1780

CIVIL ENGINEER

MASTELLER & MOLER, INC.
1655 27TH STREET, SUITE 2
VERO BEACH, FLORIDA 32960
Phone: (772) 567-5300 / Fax: (772) 794-1106
mastmolr@bellsouth.net

LAND SURVEYOR

MASTELLER, MOLER & TAYLOR, INC.
1655 27TH STREET, SUITE 2
VERO BEACH, FLORIDA 32960
Phone: (772) 564-8050 / Fax: (772) 794-0647

UTILITIES

LOCATION OF UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM INFORMATION FURNISHED BY UTILITY COMPANIES AND ARE APPROXIMATE ONLY. CONTRACTOR IS TO FAMILIARIZE HIMSELF WITH AND VERIFY CONDITIONS AT SITE. CONTRACTOR SHALL MAKE DILIGENT INQUIRY AT THE OFFICE OF THE UTILITY COMPANIES AND MUNICIPAL AUTHORITIES TO DETERMINE THE EXACT LOCATION OF UTILITY STRUCTURES. THE CONTRACTOR SHALL NOTIFY, IN WRITING, THE UTILITY COMPANIES, MUNICIPALITY AND OWNERS INVOLVED OF THE NATURE AND SCOPE OF THE PROJECT, AND OF HIS OPERATIONS THAT AFFECT THEIR FACILITIES OR PROPERTY.

DATUM

THE DATUM AND DESIGN GRADES SHOWN WITHIN THESE PLANS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

TRANSFER OF APPROVAL

PRIOR TO TRANSFER, THE TRANSFEREE MUST ASSUME IN WRITING ON A FORM, ACCEPTABLE TO THE COUNTY ATTORNEY, ALL COMMITMENTS, RESPONSIBILITIES, AND OBLIGATIONS OF THE PRIOR DEVELOPER. FAILURE TO GIVE TIMELY NOTICE OR TO PROVIDE THE ASSUMPTION OF PRIOR COMMITMENT VOIDS THE PRELIMINARY APPROVAL

GENERAL PROJECT STATEMENT

THIS PROJECT PROPOSES ADDING A RESTROOM / CONCESSION BUILDING TO SERVICE THE EXISTING FOOTBALL / SOCCER FIELD. THE PROJECT ALSO INCLUDES THE DEMOLITION AND REMOVAL OF THE EXISTING RESTROOM BUILDING, SEPTIC TANK AND DRAIN FIELD SOUTH OF THE PROPOSED RESTROOM BUILDING AT VICTOR HART PARK

VICTOR HART PARK RESTROOM / CONCESSION BUILDING



MASTELLER & MOLER, INC.

CONSULTING ENGINEERS

CERTIFICATE OF AUTHORIZATION NO. 4204
1655 27TH STREET, SUITE 2 VERO BEACH, FLORIDA 32960
PHONE: (772) 567-5300 ~ FAX: (772) 794-1106

FOR BIDDING PURPOSES ONLY

03/26/24

SEAN C. GREEN, P.E. FL#90797

2226_COVER.dwg

4	03/26/24	UPDATED FOR BIDDING	SCG/SCG	Title to all documents which bear the copyright of Masteller & Moler, Inc. is vested solely in Masteller & Moler, Inc. These documents are provided to the owner solely in connection with this project. Any other use or reuse of these documents or any reproduction, display, sale or other disposition of these documents by anyone is expressly prohibited without consent of Masteller & Moler, Inc. pursuant to the Federal Copyright Law. © 2024, MASTELLER & MOLER, INC.
3	01/05/24	REVISED PER UCP EMAILED RAI #1 MARKUPS DATED 01/04/24	MBB/SCG	
2	11/14/23	REVISED PER IRC EMAILED RAI #1 COMMENTS DATED 11/14/23	MBB/SCG	
1	10/25/23	REVISED PER TRC COMMENTS DATED 10/25/23	MBB/SCG	
NO.	DATE	DESCRIPTION	DR/APP	
REVISIONS				



Call 811 or visit sunshine811.com two full business days before digging to have buried facilities located and marked.

Check positive response codes before you dig!

DATUM

THE DATUM AND DESIGN GRADES SHOWN WITHIN THESE PLANS REFER TO THE

NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988)

DATUM CONVERSION: NGVD '29 = NAVD '88 + (1.43')

GENERAL NOTES

1. ALL WORK SHALL BE COMPLETED IN CONFORMANCE AS APPLICABLE WITH FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS" FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
2. SHOP DRAWINGS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO MANUFACTURE.
3. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ANY UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
4. ALL DIMENSIONS MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR, AND IF ANY DISCREPANCIES ARE DISCOVERED, THE OWNER SHALL BE NOTIFIED IMMEDIATELY.
5. CONTRACTOR SHALL COORDINATE ALL WORK WITH UTILITY COMPANIES PRIOR TO START OF CONSTRUCTION IN ORDER TO PREVENT DAMAGE TO EXISTING UTILITIES AND THE ADJUSTMENT AND/OR RELOCATION OF SAME IF REQUIRED.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL REQUIRED ROAD CROSSING PERMITS.
7. CONTRACTOR IS ADVISED TO FAMILIARIZE HIMSELF WITH THE OVERALL SCOPE OF WORK TO BE PERFORMED PRIOR TO SUBMITTING A BID.
8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER OF ANY CHANGES OR DEVIATIONS FROM THE ORIGINAL PLANS PRIOR TO CONSTRUCTION OF SAID CHANGE OR DEVIATION.
9. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO SAFEGUARD ALL EXISTING STRUCTURES AND UTILITIES. ANY DAMAGES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.
10. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY INSURANCE AND BONDS REQUESTED BY THE OWNER FOR THIS PROJECT.
11. THE OWNER WILL PROVIDE THE SELECTED CONTRACTOR WITH COPIES OF ALL PERMITS RECEIVED FOR THE PROJECT.
12. ANY FEDERAL DATUM MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE THE PROJECT ENGINEER SHOULD NOTIFY:
- GEODETIC INFORMATION CENTER
ATTN: MARK MAINTENANCE SECTION
ATTN: N/C-162
6001 EXECUTIVE BLVD.
ROCKVILLE, MARYLAND 20852
TELEPHONE NO. (301) 443-8319
13. THE ELEVATIONS AS SHOWN ON THESE PLANS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.
14. THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES OR UNDERGROUND UTILITIES.
15. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE PROJECT ENGINEER SHOULD BE NOTIFIED IMMEDIATELY IN ORDER THAT THE COUNTY MAY HAVE A SURVEYOR REFERENCE SAID POINT PRIOR TO DISTURBANCE. ALSO, ALL GPS CONTROL POINTS ARE TO BE PROTECTED. IF DESTROYED DURING CONSTRUCTION, IT WILL BE THE CONTRACTOR RESPONSIBILITIES TO REPLACE THE GPS CONTROL POINTS AT THEIR EXPENSE.
16. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE, AT ALL TIMES, ONE COPY OF APPROVED CONSTRUCTION PLANS, SPECIFICATIONS AND ANY SPECIAL PROVISIONS, AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.
17. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN TO BE MADE WITHOUT PRIOR APPROVAL OF THE ENGINEER.

EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION CONTROL WITHIN THE BEST MANAGEMENT PRACTICES FOR THE DURATION OF THE PROJECT UNTIL SUCH TIME AS THE PROJECT HAS BEEN CERTIFIED AS COMPLETE. SEE SWPPP TEMPLATE (THIS SHEET) FOR ADDITIONAL NOTES.
2. ALL DISTURBED AREAS WITHIN RIGHTS-OF-WAY SHALL BE SODED WITHIN THREE DAYS OF FINAL GRADING.

CONSTRUCTION STAKEOUT NOTIFICATION

SOME CONSTRUCTION ELEMENTS DETICATED ON THESE PLANS ARE DRAWN NOT TO SCALE IN ORDER TO PROVIDE CLARITY AS TO THE SCOPE OF WORK. THESE ELEMENTS INCLUDE BUT MAY NOT BE LIMITED TO CURBS, MANHOLES, VALVES, METERS & FIRE HYDRANTS, ETC. THE CONTRACTOR IS ADVISED TO UTILIZE BOTH THE PLAN VIEW AND DETAILS TO ACCURATELY CONSTRUCT ALL PROPOSED IMPROVEMENTS.

UTILITIES NOTES:

1. ALL UTILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH INDIAN RIVER COUNTY UTILITIES STANDARDS.
2. THE CONTRACTOR SHALL NOTIFY THE OWNER, ENGINEER AT (772-) 567-5300 AND UTILITIES DEPARTMENT A MINIMUM OF (48) HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. ALL POTABLE WATER PIPING, JOINTING AND PACKING MATERIALS, INTERNAL COATING AND LININGS, FITTINGS, SPECIALS, AND APPURTENANCES USED IN THIS PROJECT SHALL BE IN CONFORMANCE WITH THE CORRESPONDING AWWA STANDARDS AND BE CONFORMING TO NSF REQUIREMENTS AS APPLICABLE.
4. ALL PIPE AND PIPE FITTINGS AS WELL AS SOLDER AND FLUX INSTALLED OR USED UNDER THE CONSTRUCTION OF THIS PROJECT ARE TO COMPLY WITH F.A.C. 62-555.322 WITH REGARD TO LEAD.
5. ALL WATER SERVICE LINES INSTALLED UNDER THIS PROJECT ARE TO COMPLY WITH AWWA C800.
6. ALL "PEX" TUBING 3" AND SMALLER FOR WATER MAINS SHALL BE THICKNESS SDR-9 MEETING AWWA C904.
7. ALL PVC PIPE 4"-12" IN DIAMETER FOR WATER MAINS SHALL BE THICKNESS CLASS DR-18 MEETING AWWA C900-97, OR LATEST REVISION, OR C909-98, OR LATEST REVISION.
8. ALL PVC PIPE 14"-36" IN DIAMETER FOR WATER MAINS SHALL BE THICKNESS CLASS DR-18 MEETING AWWA C900-97 AND ASTM D1784, OR LATEST REVISIONS.
9. ALL DIP FOR WATER MAINS SHALL BE PRESSURE CLASS 350 MEETING AWWA SPECIFICATION C150 (A 21.50-96) OR LATEST REVISION.
10. ALL PVC PIPE FOR GRAVITY SEWER MAINS SHALL BE EXTRA STRENGTH PVC PIPE AND SHALL CONFORM TO THE LATEST ASTM DESIGNATION D3034-SDR26 AND SHALL BE PAINTED GREEN OR APPROVED EQUAL.
11. ALL PVC PIPE FOR SEWAGE FORCE MAIN 4" - 12" DIAMETER SHALL BE C900 OR C909, LATEST REVISIONS AND SHALL BE BROWN OR GREEN OR APPROVED EQUAL.
12. ALL PVC PIPE FOR REUSE FORCE MAIN 4" - 12" DIAMETER SHALL BE C900 OR C909, LATEST REVISIONS AND SHALL BE PURPLE OR APPROVED EQUAL.
13. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ANY UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
14. ALL GENERAL CONSTRUCTION, MATERIAL TESTING AND METHODS OF INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF INDIAN RIVER COUNTY UTILITIES.
15. ALL POTABLE WATER PIPE AND PIPE FITTINGS INSTALLED WILL BE COLOR CODED OR MARKED IN ACCORDANCE WITH SUBPARAGRAPH 62-555.320(21)(B)3, F.A.C. USING BLUE AS THE PREDOMINANT COLOR.
16. ALL DIMENSIONS MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR AND IF ANY DISCREPANCIES ARE DISCOVERED, THE OWNER SHALL BE NOTIFIED IMMEDIATELY.
17. CONTRACTOR SHALL COORDINATE ALL WORK WITH UTILITY COMPANIES PRIOR TO START OF CONSTRUCTION IN ORDER TO PREVENT DAMAGE TO EXISTING UTILITIES AND THE ADJUSTMENT AND/OR RELOCATION OF SAME IF REQUIRED.
18. CONTRACTOR SHALL OBTAIN A COPY OF THE F.D.E.P. WATER & WASTEWATER PERMITS & PERFORM SAMPLING & TESTING IN CONFORMANCE W/ PERMIT CONDITIONS.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL REQUIRED ROAD CROSSING PERMITS.
20. CONTRACTOR IS ADVISED TO FAMILIARIZE HIMSELF WITH THE OVERALL SCOPE OF WORK TO BE PERFORMED PRIOR TO SUBMITTING A BID.
21. WATER MAIN AND FORCE MAINS SHALL BE INSTALLED WITH 36" MINIMUM COVER AND SHALL BE CONSTRUCTED SO AS TO AVOID EXISTING AND KNOWN FUTURE UTILITY LOCATIONS.
22. ALL WORK SHALL BE COMPLETED IN CONFORMANCE AS APPLICABLE WITH FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS" FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION AND THE STANDARDS OF THE UTILITY OWNER.

23. WATERMAIN & FORCEMAIN PIPES INSTALLED UNDER PAVEMENT SHALL BE D.I.P. WITH 36" MIN. COVER (42" MIN. COVER FOR P.V.C. PIPE) .
24. BENDS SHALL BE INSTALLED ON WATER MAINS AS NECESSARY TO AVOID CONFLICT WITH PROPOSED OR EXISTING STRUCTURES AT NO ADDITIONAL COST TO OWNER.
25. ALL CONSTRUCTION SHALL COMPLY WITH THE STANDARDS AND SPECIFICATIONS OF THE UTILITY OWNER. SHOP DRAWINGS FOR ALL SEWER AND WATER APPURTENANCES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
26. ALL PRESSURE AND BACTERIOLOGICAL TESTING FOR WATER MAINS, TUNNEL/INFILTRATION/EXFILTRATION TESTS FOR GRAVITY SEWER AND PRESSURE TEST FOR FORCE MAINS, SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE AND COORDINATED WITH THE OWNER, ENGINEER AND UTILITY OWNER. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH ALL TEST RESULTS.
27. THE CONTRACTOR SHALL SUPPLY THE OWNER AND ENGINEER WITH TWO COPIES OF AS-CONSTRUCTED INFORMATION SHOWING THE CONSTRUCTED LOCATION OF ALL MAINS, FITTINGS, VALVES, LATERALS (AT THE MAIN AND TERMINAL POINT), MANHOLES AND OTHER WATER AND SEWER APPURTENANCES. THE FORMAT SHALL BE APPROVED BY THE OWNER AND/OR UTILITY PRIOR TO SUBMISSION.
28. WATER MAINS AND FORCE MAIN SHALL BE FLUSHED AT A MINIMUM VELOCITY OF 2.5 FPS PRIOR TO PRESSURE TESTING AND DISINFECTION.
29. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER OF ANY CHANGES OR DEVIATIONS FROM THE ORIGINAL PLANS PRIOR TO CONSTRUCTION OF SAID CHANGE OR DEVIATION.
30. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO SAFEGUARD ALL EXISTING STRUCTURES AND UTILITIES. ANY DAMAGES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.
31. LATERALS AND CLEANOUTS SHALL BE INSTALLED AS REQUIRED BY APPLICABLE PLUMBING CODES.
32. INSPECTION OR FAILURE TO INSPECT ANY MATERIALS OR WORKMANSHIP BY THE UTILITY OWNER OR OTHER AGENCIES SHALL IN NO WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM THE WORK IN ACCORDANCE WITH APPLICABLE PLANS, SPECIFICATIONS AND LAWS.
33. THE CONTRACTOR SHALL OBTAIN A CURRENT COPY OF THE UTILITY OWNER CONSTRUCTION SPECIFICATIONS FOR WATER DISTRIBUTION AND SEWAGE COLLECTION FACILITIES PRIOR TO BIDDING THE UTILITY WORK. IN THE EVENT THAT THERE IS A DISCREPANCY BETWEEN THE UTILITY'S SPECIFICATIONS AND THE ENGINEER'S SPECIFICATIONS, THE UTILITY'S SPECIFICATIONS SHALL SUPERSEDE.
34. TRACE WIRE SHALL BE INSTALLED OVER ALL WATER MAINS AND SEWAGE FORCE MAINS. #10 MULTIPLE-STRAND CONDUCTOR COPPER TRACE WIRE SHALL BE AFFIXED TO THE TOP OF PIPE. SEE TRACE WIRE DETAIL FOR SPECIFICATIONS.
35. USE POTABLE WATER FOR PRESSURE TESTS.
36. ALL POTABLE WATER MAINS SHALL BE CONSTRUCTED OF P.V.C. PIPE UNLESS NOTED OTHERWISE.
37. FORCE MAIN SHALL BE PRESSURE TESTED THE SAME AS WATER MAINS, EXCEPT THAT TEST PRESSURE SHALL AVERAGE NO LESS THAN 100 PSI.
38. THE CONTRACTOR SHALL DISINFECT THE NEW WATER SYSTEM IN CONFORMANCE WITH AWWA-C651 SPECIFICATIONS ANT THE NOTES THIS SHEET.
39. WATER SYSTEM PRESSURE TESTS SHALL BE COMPLETED IN THE PRESENCE OF THE ENGINEER OR HIS REPRESENTATIVE, FOR TWO (2) HOURS IN DURATION AS ACCEPTABLE TO UTILITY OWNER, AT AN AVERAGE PRESSURE OF 150 PSI. ALLOWABLE LEAKAGE WILL BE COMPUTED BASED ON AWWA C600 FOR DIP AND AWWA C605 FOR PVC.
- WHERE: L = LEAKAGE ALLOWABLE (GPH)
N = NUMBER OF JOINTS
D = NOMINAL DIAMETER (INCHES)
P = AVERAGE PRESSURE (PSI)
- * NOTE:
PRESSURE TESTING FOR PVC PIPE SHALL BE BASED ON AWWA STANDARD C605.

40. A CONTINUOUS AND UNIFORM BEDDING WILL BE PROVIDED IN TRENCHES FOR UNDERGROUND PIPE. BACKFILL OVER ANY WATER MAIN, FORCE MAIN AND SANITARY SEWER THAT IS TO BE INSTALLED UNDER PAVING, IS TO BE COMPACTED IN 12" LIFTS MAXIMUM TO A MINIMUM OF 95% MAXIMUM DENSITY WITH A MECHANICAL TAMPER OR OTHER MEANS ACCEPTABLE TO THE OWNER AND/OR ENGINEER. UNSUITABLY SIZED STONES (AS DESCRIBED IN AWWA STANDARDS) SHALL BE REMOVED FROM THE TRENCH FOR A DEPTH OF AT LEAST SIX INCHES BELOW THE BOTTOM OF THE PIPE.
- THE CONTRACTOR SHALL PROVIDE THE OWNER WITH COMPACTION TEST RESULTS AT 400' INTERVALS AT HIS EXPENSE BASED ON ASHTO T-180 SPECIFICATIONS.
41. AT ALL INSTANCES WHERE WATER MAINS CROSS ABOVE OR BELOW REUSE MAINS, STORM CULVERTS, SANITARY SEWER, OR SANITARY SEWER FORCE MAIN, THE CONTRACTOR IS TO PROVIDE "AS-BUILT" INFORMATION TO THE ENGINEER DETAILING THE VERTICAL CLEARANCE OBTAINED.
42. WATER MAINS SHALL BE LAID AT LEAST 7 FEET (EDGE TO EDGE) FROM ANY EXISTING OR PROPOSED STORM SEWER, SANITARY SEWER, OR SANITARY SEWER FORCE MAIN. WATER MAINS CROSSING SEWERS OR STORM PIPES SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL CLEARANCE OF 18 INCHES AND SHALL BE LAID SO THAT ONE FULL LENGTH OF WATER MAIN PIPE WILL BE CENTERED AT THE CROSSING.
- WATER MAINS SHALL NEITHER PASS THROUGH NOR CONTACT SEWER MANHOLES.

PLEASE NOTE IN THE EVENT THAT F.D.E.P. AND CITY OF INDIAN RIVER COUNTY STANDARDS CONFLICT, THE MORE STRINGENT STANDARD SHALL APPLY.

43. WATER MAINS CROSSING ANY UTILITIES WILL BE LAID SO THAT ONE FULL LENGTH OF WATER MAIN WILL BE CENTERED AT THE CROSSING.

FDEP SEPARATION NOTES:

1. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SEVEN FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER, NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING AN EXISTING OR PROPOSED GRAVITY- OR VACUUM-TYPE SANITARY SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES, AND PREFERABLY 12 INCHES, ABOVE OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
- AT THE UTILITY CROSSING DESCRIBED ABOVE, ON FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWER, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610 F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY- OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610 F.A.C.

- * NOTE:
PLEASE NOTE IN THE EVENT THAT F.D.E.P. AND INDIAN RIVER COUNTY STANDARDS CONFLICT, THE MORE STRINGENT STANDARD SHALL APPLY.
2. WATER MAINS CROSSING ANY UTILITIES WILL BE LAID SO THAT ONE FULL LENGTH OF WATER MAIN WILL BE CENTERED AT THE CROSSING.
- 62-555.340 Disinfection and Bacteriological Evaluation of Public Water System Components.**
- (2) BACTERIOLOGICAL EVALUATIONS TO VERIFY PROPER DISINFECTION OF TREATMENT OR STORAGE FACILITIES AND WATER MAINS SHALL BE CONDUCTED AS SET FORTH IN PARAGRAPHS (A) THROUGH (C) BELOW. THE TOTAL RESIDUAL CHLORINE MEASUREMENTS REQUIRED UNDER PARAGRAPH (A) MAY BE PERFORMED BY ANY AUTHORIZED REPRESENTATIVE OF THE SUPPLIER OF WATER OR PERSON CONSTRUCTING OR ALTERING

LEGEND

DESCRIPTION	EXISTING	PROPOSED
BLOCK NUMBER	Ⓐ	Ⓐ
BUILDING OR STRUCTURE		
CENTERLINE		
HEAD WALL		
CURB		
CUT AND PATCH		
EASEMENT LINE		
FENCE (AS INDICATED)		
LOT LINE		
LOT NUMBER	2	②
PHASE LINE		
PROPERTY LINE		
RAILROAD TRACKS		
RIGHT-OF-WAY LINE		
SIGN (POST MOUNTED)		
TRAFFIC FLOW ARROW		
ASPHALT DRIVE	AD	AD
GRAVEL DRIVE	GD	GD
CONCRETE DRIVE	CD	CD
EDGE OF PAVEMENT		
MAILBOX/NEWSPAPER BOX		
TREE		
BENCH MARK		
CONCRETE FLUME		
CONCRETE MITER END		
CONTOURS		
CURB INLET		
DRAINAGE FLOW ARROW		
FINISH FLOOR	F.F.=20.00	F.F.=20.00
INLET		
SOIL BORING LOCATION AND NO.	Ⓢ ₂	Ⓢ ₂
SPOT ELEVATION	82.89	82.89
STORM DRAIN PIPE	---D---	---D---
STORM MANHOLE	---Ⓢ---	---Ⓢ---
STRUCTURE NUMBER	S-1	S-1
SWALE		
BASIN DIVIDE		
SILT FENCE		
CLEAN OUT		
UNDERDRAIN		
DITCH BLOCK		
PLUG, BLOW-OFF & TERMINAL RESTRAINTS		
REDUCER		
FIRE HYDRANT W/ GATE VALVE VALVE BOX, HYDRANT TEE & RESTRAINTS		
GATE VALVE & BOX		
WATERMAIN W/ 3' COVER TYPICAL	WM-(6'*)	WM-(6'*)
1" SERVICE LATERAL W/ METER BOX		
1-1/2" SERVICE LATERAL W/ (2) METER BOXES		
RESTRAINED JOINT TEE		
RESTRAINED BEND		
TELEPHONE JUNCTION BOX		
TELEPHONE LINE	---TELE---	---TELE---
UNDERGROUND ELECTRIC LINE	---ELEC---	---ELEC---
OVERHEAD WIRE	---OH---	---OH---
LIGHT POLE		
WATER WELL		
POWER POLE		
GY WIRE		
TUV CABLE BOX		
GAS MAIN	---GAS---	---GAS---
UNDERGROUND CABLE TV	---CATV---	---CATV---

SWPPP TEMPLATE FOR MINIMUM BMP'S

1

EROSION CONTROL NOTES

1. Sediment basins and traps, perimeter dikes, sediment barriers and other measures intended to trap sediment shall be constructed as a first step in any land disturbing activity and shall be made functional before up-slope land disturbance takes place.

2. All sediment control measures are to be adjusted to meet field conditions at the time of construction and be constructed prior to any grading or disturbance of existing surface material on balance of site. Perimeter sediment barriers shall be constructed to prevent sediment or trash from flowing or floating on to adjacent properties.

3. Permanent or temporary soil stabilization shall be applied to denuded areas within seven (7) days after final grade is reached on any portion of the site. Temporary soil stabilization shall be applied within three (3) days to denuded areas that may not be at final grade but will remain undisturbed for longer than 30 days. Permanent stabilization shall be applied to areas that are to be left undisturbed for more than one year.

4. During construction of the project, soil stock piles shall be stabilized, covered or contained with sediment trapping measures. The applicant is responsible for the temporary protection and permanent stabilization of all soil stockpiles on site as well as soil intentionally transported from the project site.

5. A permanent vegetative cover shall be established on denuded areas not otherwise permanently stabilized.

6. After any significant rainfall, sediment control structures will be inspected for integrity. Any damaged devices shall be corrected immediately.

7. Concentrated runoff shall not flow down cut or fill slopes unless contained within an adequate trenching or permanent channel, flume, slope drain structure or approved control.

8. Sediment will be prevented from entering any storm water system, ditch or channel. All storm water inlets that are made operable during construction shall be protected so that sediment-laden water cannot enter the conveyance system without first being filtered or otherwise treated to remove sediment.

9. When work in a live watercourse is performed, precautions shall be taken to minimize encroachment, control sediment transport and stabilize the work area to the greatest extent possible during construction.

10. Periodic inspection and maintenance of all sediment control structures must be provided to ensure intended purpose is accomplished. The developer, owner and/or contractor shall be continually responsible for all sediment controls. Sediment control measures shall be in working condition at the end of each working day.

11. Where construction vehicle access routes intersect paved public roads, provisions shall be made to minimize the transport of sediment by tracking on the paved surface. Where sediment is transported onto a public road surface with curbs and gutters, the road shall be cleaned thoroughly at the end of each day. Sediment shall be removed from the roads by hosing or sweeping and transported to a sediment control disposal area. Street washing shall be allowed only after sediment is removed in this manner. This provision shall apply to individual subdivision lots as well as to larger land disturbing activities.

12. All temporary erosion and sediment control measures shall be removed within 30 days after final site stabilization or after the temporary measures are no longer needed.

13. Properties and waterways downstream from construction sites shall be protected from sediment deposition and erosion at all times during construction.

14. Erosion control design and construction shall follow the requirements in index numbers 101, 102 and 103 of F.D.O.T. Roadway and Traffic Design Standards and county permits.

15. Contractor is responsible for all surface water discharges, rainfall run off or dewatering activities.

16. Contractor must incorporate all BMP's necessary to meet or exceed state water quality and SWPPP requirements.

17. The Pollution Prevention Plan is a minimum guideline only. Additional BMP's may be necessary at contractor's expense.

18. NOI to be posted on site.

19. Dewatering activities:
A - Discharge must not exceed state water quality standards.
B - Contractor must have a transferable SWPMD Consumptive Use permit known as a "Noticed General Permit For Short-Term Construction De-Watering".
C - No hydraulic pumps may be used for dewatering unless approved by the water management district for that area.
D - No turbid discharge. Turbidity readings are required once a week and must be reported to the project Engineer.

20. Failure to develop and implement a certified stormwater pollution prevention plan shall be deemed a violation of the permit and the permittee shall be subject to the permit action. The plan shall be completed prior to the submission of an NOI (Notice of Intent) to be covered under the permit and updated as appropriate. The plan shall also provide for compliance with the terms and schedule of the plan beginning with the initiation of the construction activities.

NOTE: ALL STOCKPILES SHALL BE A MAXIMUM OF 25' HIGH.

SECTION A-A

NOTE: FOR STOCKPILING ERODIBLE MATERIAL, FOR EXTENDED PERIODS, THE AREA SHALL BE SEEDED AND MULCHED.

SEDIMENT CONTROL DETAIL FOR STOCKPILING OF ERODIBLE MATERIAL-N.T.S.

VIEW OF FRAME WITHOUT SILT FENCE

VIEW OF FRAME WITH SILT FENCE

SILT FENCE INLET PROTECTION-N.T.S.

NOTE: 1. ALL TREES RETAINED ON A SITE SHALL BE PROTECTIVELY BARRICADED BEFORE AND DURING CONSTRUCTION ACTIVITIES.

2. UNDERGROUND UTILITY LINES SHALL BE ROUTED AROUND EXISTING TREES TO THE OUTSIDE OF THE DRILLPIE WHERE ADDED.

3. INSTALLATION OF FENCES AND WALLS SHALL TAKE INTO CONSIDERATION THE ROOT SYSTEMS OF EXISTING TREES.

4. FENCE/BARRICADE SHALL BE INSTALLED AT PERIMETER OF ALL TREES OR GROUP OF TREES TO BE PROTECTED. FENCE SHALL BE MAINTAINED DURING CONSTRUCTION.

5. DO NOT PARK HEAVY EQUIPMENT ON TREE ROOTS. DO NOT ADD FILL 4" TO 6" AROUND TREES. ALL WORK WITHIN THE CRZ MUST BE DONE BY HAND.

PROTECTIVE FENCING FOR TREES-N.T.S.

3

NOTES:

1. SILT FENCE SHALL BE PLACED ON SLOPE TO CONTOURS TO MAXIMIZE FLOW EFFICIENCY.

2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 8" MAXIMUM RECOMMENDED STORAGE HEIGHT.

3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

EXTRA STRENGTH FILTER FABRIC NEEDED WITHOUT WIRE MESH SUPPORT

ATTACH FILTER FABRIC SECURELY TO UPSTREAM SIDE OF POST

STEEL OR WOOD POST

10" MAXIMUM SPACING WITH WIRE SUPPORT FENCE. MAXIMUM SPACING WITHOUT WIRE SUPPORT FENCE

8" MAX. STOCKPILE HEIGHT

4"x6" TRENCH WITH COMPACTED BACKFILL

32" MIN. DRAIN ROCK

TRENCH DETAIL

INSTALLATION WITHOUT TRENCHING

SILT FENCE-N.T.S.

NOTE

1. THIS PLAN SHEET SHALL NOT BE CONSIDERED A SWPPP (STORMWATER POLLUTION PREVENTION PLAN) BUT IS A PLAN REPRESENTATIVE OF THE MINIMUM REQUIRED BMP'S (BEST MANAGEMENT PRACTICES).

2. THE SWPPP SHALL BE COMPLETED PRIOR TO THE SUBMITTAL OF THE NOTICE OF INTENT (NOI) TO BE COVERED UNDER THE DEPARTMENT'S GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES.

3. THESE MINIMUM BMP'S SHALL APPLY TO WORK PERFORMED WITHIN BOTH PUBLIC AND PRIVATE RIGHTS-OF-WAY.

NO.	DATE	DESCRIPTION	DR/APP
4	03/26/24	UPDATED FOR BIDDING	SCG/SCG
3	01/05/24	REVISED PER UIC EMAIL RAI #1 MARKUPS DATED 01/04/24	MBB/SCG
2	11/14/23	REVISED PER RCI EMAIL RAI #1 COMMENTS DATED 11/14/23	MBB/SCG
1	10/25/23	REVISED PER TRC COMMENTS DATED 10/25/23	MBB/SCG

REVISIONS

MASTELLER & MOLER, INC.

CONSULTING ENGINEERS

CERTIFICATE OF AUTHORIZATION NUMBER 4204
1655 27th STREET, SUITE 2, VERO BEACH, FLORIDA 32960
(772) 567-5300 / FAX (772) 794-1106

INDIAN RIVER COUNTY

CONSTRUCTION PLANS
VICTOR HART PARK RESTROOM & CONCESSION BUILDING
FOR
I.R.C. PARKS & RECREATION

FLORIDA

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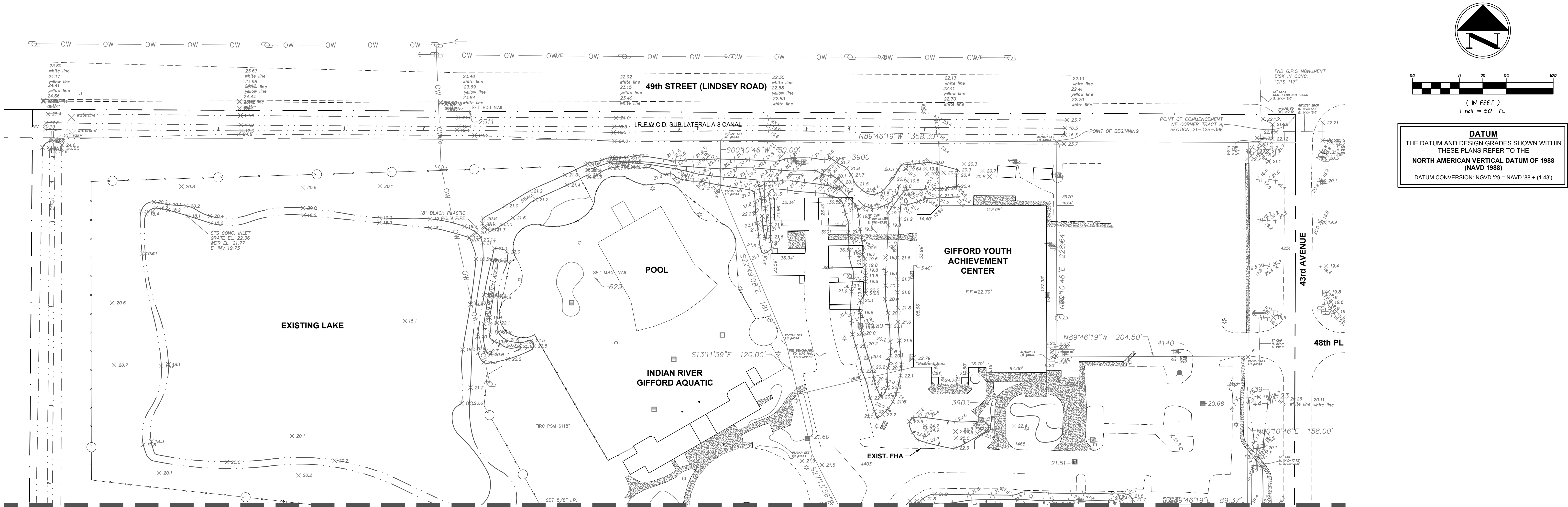
FOR BIDDING PURPOSES ONLY

DESIGNED	MBB
CHECKED	SCG
DATE	02/01/23
SCALE	N.T.S
SHEET	2 OF 12
PROJECT NO.	2226

03/26/24
SEAN C. GREEN, P.E. FL #90797

DRAWN	GEV
DESIGNED	MBB
CHECKED	SCG
DATE	02/01/23
SCALE	N.T.S
SHEET	2 OF 12
PROJECT NO.	2226

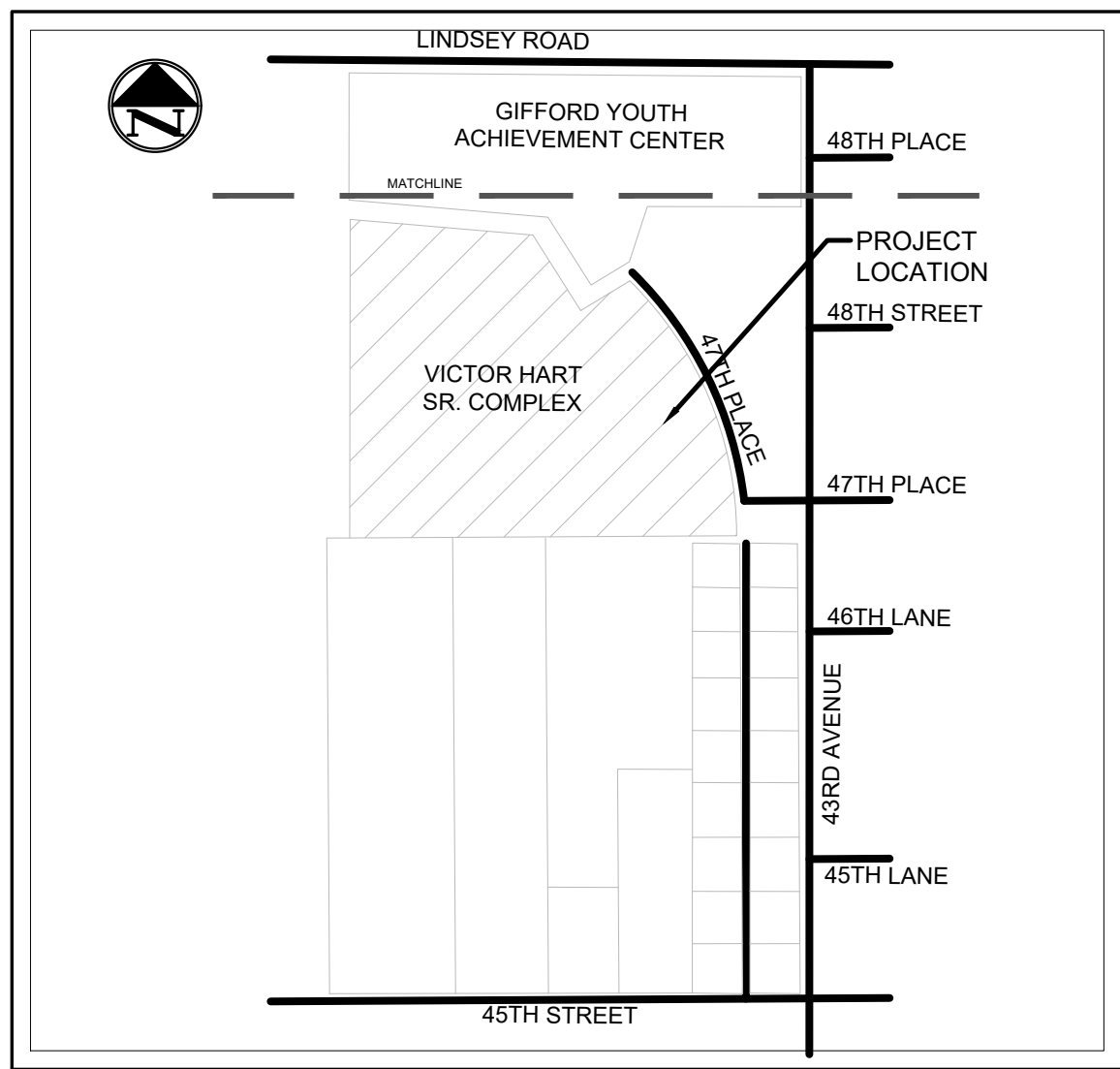
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MATCHLINE SEE SHEET 4

VICINITY MAP

(NOT TO SCALE)



GENERAL SITE DATA

APPLICANT / OWNER

INDIAN RIVER COUNTY PARKS, RECREATION, AND CONSERVATION DEPT.
1655 27TH STREET SW
VERO BEACH, FLORIDA 32962
Ph. (772) 226-1780

ENGINEER

MASTELLER & MOLER, INC.
1655 27TH STREET, SUITE 2
VERO BEACH, FLORIDA 32960
Ph. (772) 567-5300

SURVEYOR

MASTELLER, MOLER & TAYLOR INC.
1655 27TH STREET, SUITE 2
VERO BEACH, FLORIDA 32960
Ph. (772) 564-8050

LEGAL DESCRIPTION

INDIAN RIVER FARMS CO SUB PBS 2-12
TR 9, LESS W 310 FT OF E 335 FT OF S
281.03 FT OF N 311.03 FT THEREOF, LESS
RWS

GENERAL STATEMENT

THIS PROJECT PROPOSES ADDING A RESTROOM / CONCESSION BUILDING TO SERVICE THE EXISTING FOOTBALL / SOCCER FIELD. THE PROJECT ALSO INCLUDES THE DEMOLITION AND REMOVAL OF THE EXISTING RESTROOM BUILDING, SEPTIC TANK AND DRAIN FIELD SOUTH OF THE PROPOSED RESTROOM BUILDING AT VICTOR HART PARK.

TAX PARCEL

TAX I.D. # 32-39-21-00001-0090-0001.0

SITE ADDRESS

4691 43RD AVENUE
VERO BEACH, FLORIDA 32967

FIRM PANEL

FLOOD ZONE: "X"
MAP NUMBER: 12061C0241H
DATED: DECEMBER 4, 2012
ESTIMATED BASE FLOOD ELEVATION: '21.95' NAVD88

*ESTIMATED BASE FLOOD ELEVATION PER SURWMD ERP NO. 40158-5 PLANS PREPARED BY MASTELLER & MOLER, INC.

SCHEDULE

PROJECT COMMENCEMENT: DECEMBER 2023
PROJECT COMPLETION: SEPTEMBER 2024

UTILITY PROVIDERS

POTABLE WATER IRCUDS
WASTEWATER IRCUDS

*EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND BASED ON INFORMATION PROVIDED BY IRCUDS

DEMOLITION DETAILS

1. SITE DEMOLITION NOT TO COMMENCE UNTIL CONTRACTOR HAS SECURED ALL NECESSARY PERMITS FOR DEMOLITION OF THE EXISTING RESTROOM BUILDING AND RELATED INFRASTRUCTURE AS SHOWN ON THE DEMOLITION PLAN. ALL DISTURBED GREEN AREAS TO BE HYDROSEEDDED. CONTRACTOR SHALL PROVIDE A WRITTEN DEMOLITION PROTOCOL, NARRATIVE DESCRIBING THE SEQUENCE OF DEMOLITION EVENTS FOR REVIEW AND APPROVAL BY THE PROJECT ENGINEER BEFORE INITIATING CONSTRUCTION.
2. DEMOLITION NOT TO OCCUR UNTIL NEW RESTROOM AND CONCESSION STAND RECEIVES ITS CERTIFICATE OF OCCUPANCY.
3. WATER SERVICE TO THE SOUTHERLY SOFTBALL FIELD TO BE MAINTAINED THROUGHOUT CONSTRUCTION AND DEMOLITION.
4. NO TREES ARE PROPOSED TO BE REMOVED AS PART OF THE DEMOLITION OR NEW CONSTRUCTION EFFORT.

NOTES

1. CONTRACTOR TO CONDUCT CONSTRUCTION EFFORTS IN A MANNER THAT WILL NOT INTERFERE WITH NORMAL VEHICULAR TRAFFIC WITHOUT PRIOR APPROVAL FROM INDIAN RIVER COUNTY.
2. THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UTILITIES IN THE VICINITY PRIOR TO BEGINNING CONSTRUCTION. WHETHER DEPICTED ON THESE PLANS OR NOT.
3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE WITH INDIAN RIVER COUNTY, FPL, AT&T, BELLSOUTH, AND ANY OTHER RELEVANT UTILITY PROVIDERS/OWNERS REGARDING THE LOCATION OF EXISTING AND PROPOSED UNDERGROUND UTILITIES.
4. ALL PAVED OR UNPAVED DRIVEWAYS OR PARKING AREAS THAT ARE DISTURBED BY CONSTRUCTION SHALL BE RESTORED IN-KIND.
5. ALL GREEN AREAS DISTURBED BY CONSTRUCTION SHALL BE SOODED. HYDROSEEDING IS NOT PERMITTED, UNLESS OTHERWISE NOTED.
6. ALL SIGNS AND INSTALLED LANDSCAPING DISTURBED BY CONSTRUCTION SHALL BE REPLACED OR RESTORED IN-KIND.
10. PRE-DEMOLITION INSPECTION AND PERMITTING IS REQUIRED THROUGH THE DEPARTMENT OF HEALTH PRIOR TO STRUCTURAL DEMOLITION.

DEMOLITION SPECIFICATIONS

THE INITIAL PHASE OF THE PROJECT WILL BE THE DEMOLITION OF THE EXISTING RESTROOM BUILDING, AND THE REMOVAL OF THE RELATED INFRASTRUCTURE, ELECTRICAL/MECHANICAL STRUCTURES, WIRING, CONDUIT, ETC. A TEMPORARY FENCE SHALL BE ERRECTED AND WILL SERVE AS A SETUP TO CREATE A WORK PERIMETER AND PREVENT UNAUTHORIZED PERSONNEL FROM ENTERING THE WORK ZONE. THE EXISTING BUILDING WILL BE TAKEN APART BY THE CONTRACTOR WHILE CAREFULLY PRESERVING VALUABLE ELEMENTS THAT CAN BE SAFELY REUSED OR RECYCLED. INDIAN RIVER COUNTY PARKS AND RECREATION DEPARTMENT SHALL RETAIN THE RIGHTS TO ANY MATERIALS RELATED TO THE BUILDING.

ALL THE WORK ASSOCIATED WITH THE DEMOLITION OF THE EXISTING SITE WILL COMMENCE UPON CONTRACTOR'S RECEIPT OF ALL PERMITS NECESSARY FOR PROJECT DEMOLITION. ONCE THE WORK HAS BEEN COMPLETED, THE CONTRACTOR, THE CONTRACTOR WILL PROVIDE NOTIFICATION TO THE PROJECT ENGINEER AND ALL AGENCIES HAVING JURISDICTION AS TO THE COMPLETION OF THE DEMOLITION.

NOTIFICATION OF OWNERS OF UTILITY LINES AND EQUIPMENT

CONTRACTOR SHALL NOTIFY THE OWNER OR LOCAL AUTHORITY OWNING ANY CONDUITS, PIPES, WIRES, OR EQUIPMENT AFFECTED BY THE DEMOLITION WORK. ANY REMEDIAL WORK REQUIRED AS A RESULT OF DAMAGES TO EXISTING UTILITY LINES AND EQUIPMENT CAUSED DURING DEMOLITION SHALL BE AT THE CONTRACTOR'S EXPENSE.

PROTECTION

PRIOR TO STARTING ANY WORK ON SITE, CONTRACTOR SHALL PROVIDE A SAFETY PLAN TO THE PROJECT ENGINEER FOR APPROVAL, AND UPON APPROVAL, COORDINATE THE IMPLEMENTATION OF THE SAFETY PLAN WITH THE OWNER AS NECESSARY THROUGHOUT THE DURATION OF THE DEMOLITION PHASE.

PRIOR TO STARTING DEMOLITION OPERATIONS, PROVIDE NECESSARY PROTECTION OF EXISTING SPACES AND ITEMS TO REMAIN. THE CONTRACTOR IS ADVISED THAT THE PROJECT SITE IS ADJACENT TO THE HOSPITAL AND RELATED EMERGENCY SERVICES TRAFFIC. THE CONTRACTOR SHALL CONDUCT DEMOLITION OPERATIONS IN A MANNER THAT WILL MINIMIZE NEED FOR DISRUPTION OF THE HOSPITAL'S NORMAL OPERATIONS AND PROVIDE PROTECTIVE MEASURES AS REQUIRED TO PROVIDE FREE AND SAFE PASSAGE OF HOSPITAL PERSONNEL AND VISITORS, INCLUDING EMERGENCY SERVICES PERSONNEL.

CONTRACTOR SHALL PROVIDE A MINIMUM OF 72 HOURS ADVANCE NOTICE TO THE COUNTY OF DEMOLITION ACTIVITIES THAT WILL IMPACT NORMAL OPERATION AND OBTAIN SPECIFIC APPROVAL FROM INDIAN RIVER COUNTY, AS APPLICABLE, AND OWNER(S) FOR EACH INDIVIDUAL IMPACT.

THE OWNER ASSUMES NO RESPONSIBILITY FOR ACTUAL CONDITIONS OF THE ITEMS TO BE DEMOLISHED. THE OWNER AND/OR THEIR DESIGNATED PERSONNEL SHALL MAINTAIN CONDITIONS AT TIME OF COMMENCEMENT OF CONTRACT INSOFAR AS PRACTICAL.

THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE EXISTING INFRASTRUCTURE TO REMAIN (INCLUDING CURBING AND/ OR PAVING, WATER AND SEWER STRUCTURES/ FIXTURES, ETC.) DURING DEMOLITION OPERATIONS.

DEMOLITION SPECIFICATIONS (CONTD)

REGULATORY REQUIREMENTS

CONTRACTOR SHALL CONFORM TO APPLICABLE CODES FOR DEMOLITION OF STRUCTURES, SAFETY OF ADJACENT STRUCTURES, DUST CONTROL, RUNOFF AND EROSION CONTROL, AND DISPOSAL OF DEMOLISHED MATERIALS. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS NECESSARY TO PERFORM THE DEMOLITION FROM AUTHORITIES HAVING JURISDICTION.

CONTRACTOR SHALL NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK AND COMPLY WITH THEIR REQUIREMENTS. CONTRACTOR SHALL NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, OR HYDRANTS WITHOUT PERMITS.

CONTRACTOR SHALL CONFORM TO ALL APPLICABLE REGULATORY PROCEDURES WHEN DISCOVERING HAZARDOUS OR CONTAMINATED MATERIALS. IF HAZARDOUS OR CONTAMINATED MATERIALS ARE DISCOVERED, CONTACT THE OWNER AND THE PROJECT ENGINEER IMMEDIATELY AND COMPLY WITH ALL APPLICABLE REGULATIONS, LAWS, AND ORDINANCES CONCERNING ASSESSMENT, REMOVAL, HANDLING, AND PROTECTION AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION.

EXPLOSIVES

THE USE OF EXPLOSIVES IS STRICTLY PROHIBITED.

PREPARATION

CONTRACTOR TO: VERIFY THE PROPER DISCONNECTION AND CAPPING OF ALL ABANDONED UTILITIES; VERIFY THAT REQUIRED BARRICADES AND OTHER PROTECTIVE MEASURES ARE IN PLACE; PROVIDE PHOTOGRAPHS/VIDEO OF EXISTING CONDITIONS OF SURROUNDING SPACES THAT COULD BE MISCONSTRUED AS DAMAGE RESULTING FROM SELECTIVE DEMOLITION WORK AND SUBMIT PHOTOGRAPHS/VIDEO TO PROJECT ENGINEER PRIOR TO STARTING WORK.

CONTRACTOR SHALL REPAIR DAMAGE CAUSED TO EXISTING FACILITIES AT NO COST TO OWNER UNLESS THEY CAN PROVIDE DOCUMENTATION INDICATING PRE-EXISTING DAMAGE.

DEMOLITION OPERATIONS

CONTRACTOR TO: ABANDON, DEMOLISH, AND REMOVE ELEMENTS AND EQUIPMENT AS DESIGNATED ON THE PLANS; REMOVE AND DISPOSE OF ELEMENTS IN THEIR ENTIRETY UNLESS OTHERWISE NOTED; EXECUTE DEMOLITION IN A CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE DISTURBANCE OR DAMAGE TO ADJOINING SURFACES OR ADJACENT STRUCTURES; AVOID EXCESSIVE VIBRATIONS IN DEMOLITION PROCEDURES THAT MAY TRANSMIT THROUGH EXISTING STRUCTURES, ETC.

DISPOSAL

MATERIALS, EQUIPMENT, AND DEBRIS RESULTING FROM DEMOLITION OPERATIONS SHALL BECOME PROPERTY OF CONTRACTOR UNLESS OTHERWISE NOTED. THE COUNTY SHALL RETAIN THE RIGHTS TO ANY MATERIALS RELATED TO THE BUILDING.

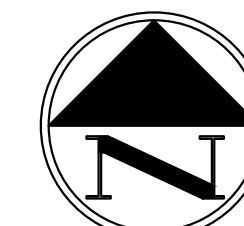
CONTRACTOR SHALL REMOVE DEMOLITION DEBRIS AT LEAST ONCE EACH DAY IN ACCORDANCE WITH APPLICABLE CITY, STATE, AND FEDERAL LAWS. DEBRIS IN TRUCKS SHALL BE COVERED WITH APPROVED NETTING TO PREVENT SPILLAGE DURING TRANSPORTATION. DO NOT STORE DEMOLITION MATERIALS ON SITE EXCEPT IN APPROVED CONTAINERS OR BURN MATERIALS ON SITE.

CONTRACTOR TO: REMOVE ANY COMBUSTIBLE WASTE MATERIALS IN A MANNER APPROVED BY LOCAL FIRE DEPARTMENT; REMOVE, HANDLE, AND DISPOSE OF ANY HAZARDOUS WASTE AND DEBRIS IN ACCORDANCE WITH APPLICABLE CITY, STATE, AND FEDERAL LAWS. TRANSPORT DEMOLITION MATERIALS TO OFF-SITE DISPOSAL AREA AND LEGALLY DISPOSE OF DEBRIS; USE STREET ROUTES SPECIFICALLY DESIGNATED BY THE CITY FOR HAULING DEBRIS (IF AVAILABLE); DISPOSE OF MATERIAL TO RECYCLING CENTERS WHEN POSSIBLE.

EXISTING CONDITIONS & DEMOLITION PLANS

NO.	DATE	DESCRIPTION	DR/APP
4	03/26/24	UPDATED FOR BIDDING	SCG/SCG
3	01/05/24	REVISED PER UCP EMAILED RAI #1 MARKUPS DATED 01/04/24	MBB/SCG
2	11/14/23	REVISED PER IRC EMAILED RAI #1 COMMENTS DATED 11/14/23	MBB/SCG
1	10/25/23	REVISED PER TRC COMMENTS DATED 10/25/23	MBB/SCG
REVISIONS			
M M MASTELLER & MOLER, INC. CONSULTING ENGINEERS			
CERTIFICATE OF AUTHORIZATION NUMBER 4204 1655 27th STREET, SUITE 2, VERO BEACH, FLORIDA 32960 (772) 567-5300 / FAX (772) 794-1106			
INDIAN RIVER COUNTY			
CONSTRUCTION PLANS VICTOR HART PARK RESTROOM & CONCESSION BUILDING FOR I.R.C. PARKS & RECREATION			
FLORIDA			
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FOR BIDDING PURPOSES ONLY			
03/26/24			
SEAN C. GREEN, P.E. FL #90797			
DRAWN: GEV DESIGNED: MBB CHECKED: SCG DATE: 02/01/23 SCALE: 1"=50' SHEET 3 OF 12 PROJECT NO.: 2226			

MATCHLINE SEE SHEET 3



0 25 50 100
(IN FEET)
1 inch = 50 ft.

DATUM
THE DATUM AND DESIGN GRADES SHOWN WITHIN
THESE PLANS REFER TO THE
NORTH AMERICAN VERTICAL DATUM OF 1988
(NAVD 1988)
DATUM CONVERSION: NGVD '29 = NAVD '88 + (1.43)

GENERAL SITE DATA

APPLICANT / OWNER
INDIAN RIVER COUNTY PARKS, RECREATION, AND
CONSERVATION DEPT.
1655 27TH STREET, SUITE 2
VERO BEACH, FLORIDA 32962
Ph. (772) 226-1780

ENGINEER
MASTELLER & MOLER, INC.
1655 27TH STREET, SUITE 2
VERO BEACH, FLORIDA 32960
Ph. (772) 564-5300

GENERAL STATEMENT
THIS PROJECT PROPOSES ADDING A RESTROOM /
CONCESSION BUILDING TO SERVICE THE EXISTING
FOOTBALL / SOCCER FIELD. THE PROJECT ALSO
INCLUDES THE DEMOLITION AND REMOVAL OF THE
EXISTING RESTROOM BUILDING, SEPTIC TANK AND
DRAIN FIELD SOUTH OF THE PROPOSED
RESTROOM BUILDING AT VICTOR HART PARK

SURVEYOR
MASTELLER, MOLER & TAYLOR INC.
1655 27TH STREET, SUITE 2
VERO BEACH, FLORIDA 32960
Ph. (772) 564-8050

LEGAL DESCRIPTION
INDIAN RIVER FARMS CO SUB PBS 2-12
TR 9, LESS W 310 FT OF E 335 FT OF S
281.03 FT OF N 311.03 FT THEREOF, LESS
RWS

TAX PARCEL
TAX I.D. # 32-39-21-00001-0090-00001.0

SITE ADDRESS
4691 43RD AVENUE
VERO BEACH, FLORIDA 32967

FIRM PANEL
FLOOD ZONE: "X"
MAP NUMBER: 12061C0241H
DATED: DECEMBER 4, 2012
ESTIMATED BASE FLOOD ELEVATION: "21.95" NAVD'88

*ESTIMATED BASE FLOOD ELEVATION PER SURVMD ERP NO.
40158-5 PLANS PREPARED BY MASTELLER & MOLER, INC.

SCHEDULE
PROJECT COMMENCEMENT: DECEMBER 2023
PROJECT COMPLETION: SEPTEMBER 2024

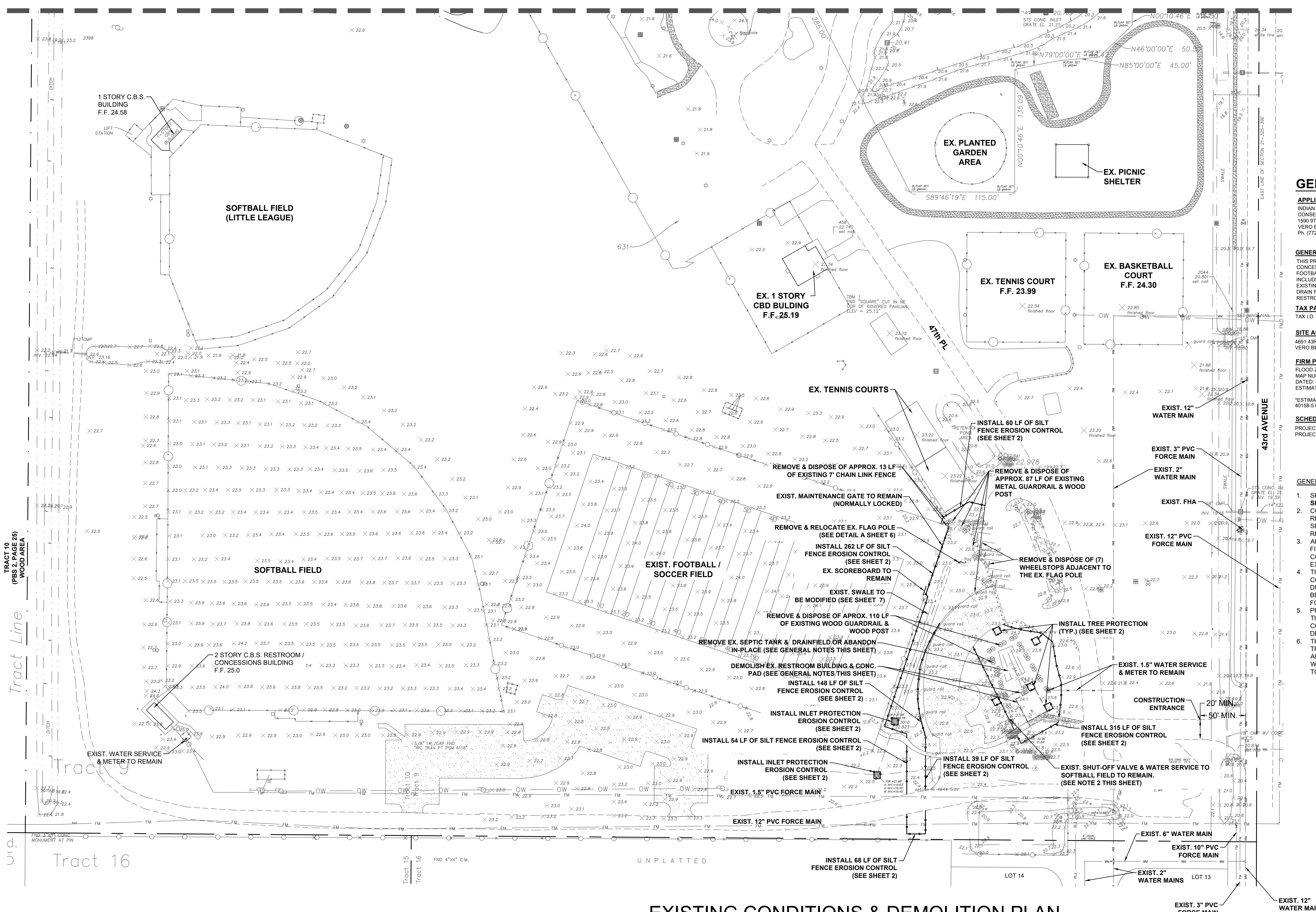
UTILITY PROVIDERS
POTABLE WATER IRCUDS
WASTEWATER IRCUDS

*EXISTING UTILITY LOCATIONS SHOWN
ARE APPROXIMATE AND BASED ON
INFORMATION PROVIDED BY IRCUDS

GENERAL NOTES:

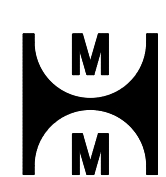
- SEE DEMOLITION, SEQUENCING NOTES, AND SPECIFICATIONS ON SHEET 3.
- CONTRACTOR TO USE CAUTION WHEN DEMOLISHING THE EX. RESTROOM BUILDING, DRAIN FIELD AND SEPTIC. THE EX. WATER SERVICE WITHIN THE VICINITY OF THE DEMOLITION LIMITS SHALL REMAIN IN SERVICE AFTER DEMOLITION IS COMPLETE.
- ALL SEDIMENT CONTROL MEASURES ARE TO BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND BE CONSTRUCTED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON BALANCE OF PROJECT LIMITS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION CONTROL WITHIN BEST MANAGEMENT PRACTICES FOR THE DURATION OF THE PROJECT UNTIL SUCH TIME AS THE PROJECT HAS BEEN CERTIFIED AS COMPLETE. SEE SWPPP TEMPLATE (SHEET 2) FOR ADDITIONAL NOTES.
- PRE-DEMOLITION PERMITTING AND INSPECTION IS REQUIRED THROUGH THE DEPARTMENT OF HEALTH PRIOR TO COMMENCEMENT OF DEMOLITION ACTIVITIES. CONTACT THE DEPARTMENT OF HEALTH AT (772) 794-7440.
- THE EXISTING STRUCTURE IS SERVED BY AN ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM WHICH MUST BE PROPERLY ABANDONED BY A REGISTERED SEPTIC CONTRACTOR. PERMITTING WILL BE REQUIRED THROUGH THE DEPARTMENT OF HEALTH PRIOR TO COMMENCEMENT OF SEPTIC TANK ABANDONMENT.

EXISTING CONDITIONS & DEMOLITION PLAN



NO.	DATE	DESCRIPTION	DR/APP
4	03/26/24	UPDATED FOR BIDDING	SCG/SCG
3	01/05/24	REVISED PER UCP EMAILED RAI #1 MARKUPS DATED 01/04/24	MBB/SCG
2	11/14/23	REVISED PER IRC EMAILED RAI #1 COMMENTS DATED 11/14/23	MBB/SCG
1	10/25/23	REVISED PER TRC COMMENTS DATED 10/25/23	MBB/SCG

REVISIONS



MASTELLER & MOLER, INC.
CONSULTING ENGINEERS

CERTIFICATE OF AUTHORIZATION NUMBER 4204
1655 27TH STREET, SUITE 2, VERO BEACH, FLORIDA 32960
(772) 567-5300 / FAX (772) 794-1106

INDIAN RIVER COUNTY

CONSTRUCTION PLANS
VICTOR HART PARK RESTROOM & CONCESSION BUILDING
FOR
I.R.C. PARKS & RECREATION

FLORIDA

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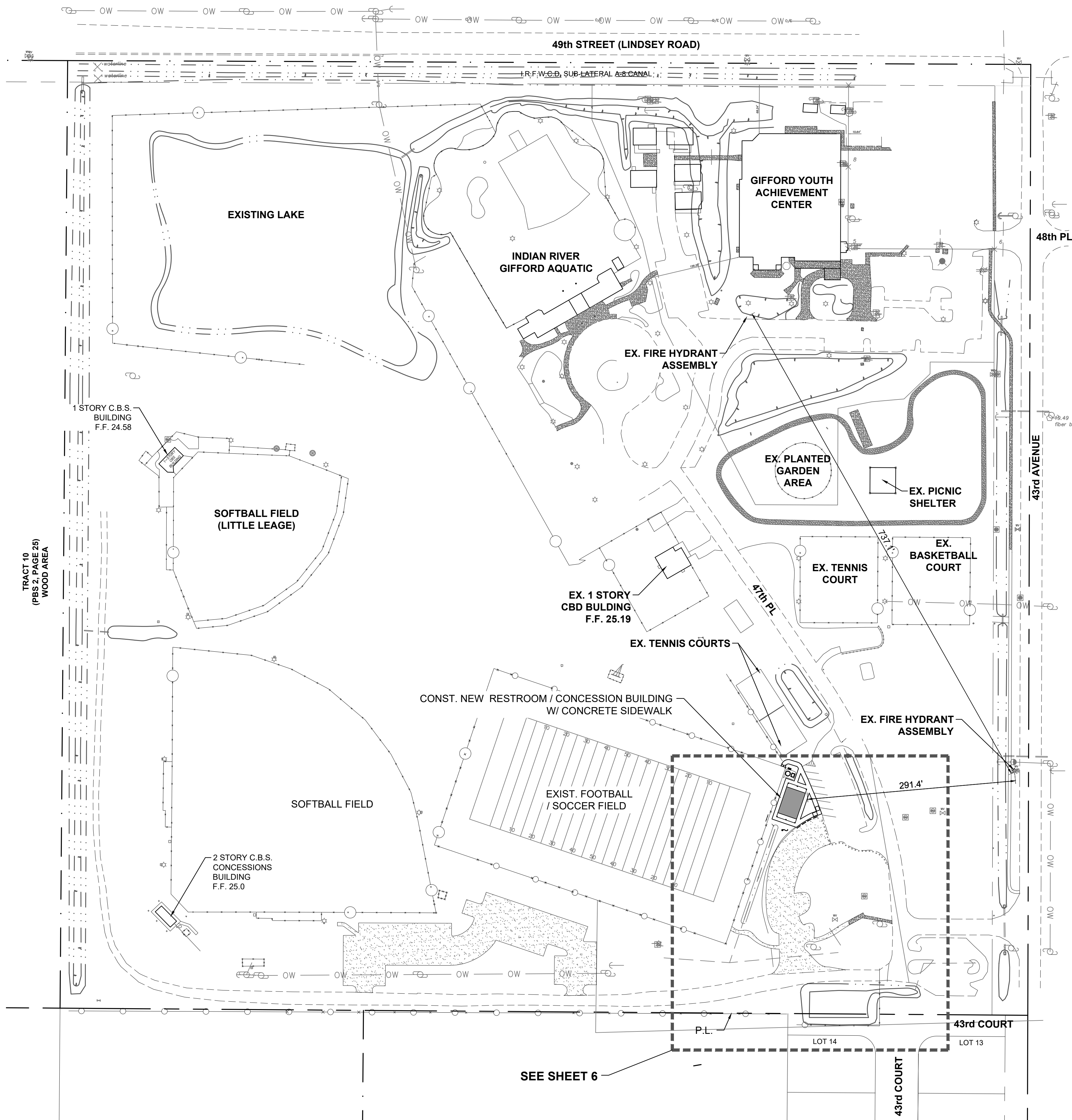
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FOR BIDDING PURPOSES ONLY

SEAN C. GREEN, P.E. FL #90797

DRAWN	GEV
DESIGNED	MBB
CHECKED	SCG
DATE	02/01/23
SCALE	1"=50'
SHEET	4 OF 12
PROJECT NO.	2226

S:\m\Projects\2022\2226 - I.R.C. Victor Hart Restroom & Sewer Lateral CAD\2226_BA5E.dwg



MASTER SITE PLAN

RESTROOM BUILDING NOTES:

- SEE SHEET 9 FOR ADDITIONAL INFORMATION REGARDING THE PROPOSED RESTROOM / CONCESSION BUILDING.
- THIS PLAN HAS BEEN PREPARED TO DEMONSTRATE THAT THE PROPOSED RESTROOM / CONCESSION BUILDING AT VICTOR HART PARK MEETS ALL APPLICABLE INDIAN RIVER COUNTY RULES AND REQUIREMENTS REGARDING DRAINAGE CONDITIONS AND IMPROVEMENTS FOR MINOR SITE PLANS [914.14(15)(2)].
- THE STRUCTURE IS PROPOSED TO BE SET WITH A FINISHED FLOOR ELEVATION EQUIVALENT TO 23.58' NAVD 88 WHICH IS GREATER THAN THE SITE'S ESTIMATED BASE FLOOD ZONE ELEVATION OF 20.92' NAVD88 PER SJRWMD ERP NO. 40158 - 5 PLANS PREPARED BY MASTELLER & MOLER, INC.

SITE PLAN NOTES:

- NO WETLANDS/NATIVE UPLANDS EXIST WITHIN PROJECT LIMITS.
- ALL OUTDOOR LIGHTING (IF APPLICABLE) SHALL BE SHIELDED FROM ADJACENT PROPERTIES AND ROADWAYS.
- ALL NUISANCE EXOTIC VEGETATION SHALL BE REMOVED IN CONJUNCTION WITH SITE IMPROVEMENTS.
- COMMERCIAL BUILDINGS SHALL POST A MINIMUM 6" NUMERICAL ADDRESS.
- SURVEY DATA IS PROVIDED BY MASTELLER, MOLER, & TAYLOR, INC. REFERENCE: PROJECT # 8490.
- PRIOR TO COMMENCING DEMOLITION OR CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UTILITIES IN THE VICINITY, WHETHER SHOW ON THESE PLANS OR NOT.
- SEE ARCHITECTURAL, STRUCTURAL, PLUMBING, ELECTRICAL, ETC. PLANS BY OTHERS.
- NO EXISTING TREES ARE PROPOSED TO BE REMOVED AS PART OF CONSTRUCTION OR DEMOLITION ACTIVITIES.

GENERAL NOTES:

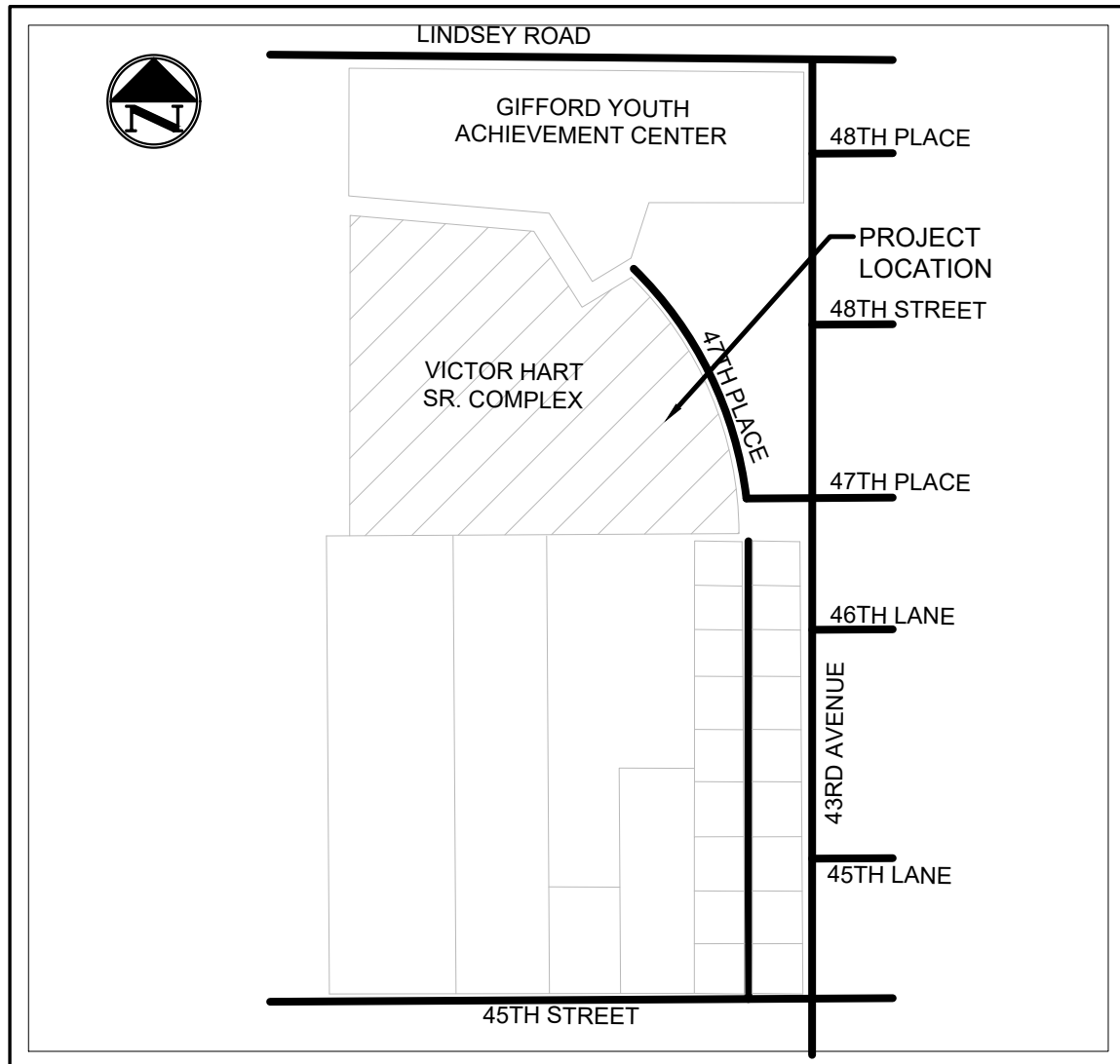
- ON-SITE MATERIAL STORAGE AREA LOCATION(S) TO BE COORDINATED WITH THE PARKS DEPARTMENT.
- THE LOCATION OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. CONTRACTOR SHALL FIELD LOCATE EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE WITH INDIAN RIVER COUNTY, FPL, AT&T, BELL SOUTH, AND ANY OTHER RELEVANT UTILITY PROVIDERS REGARDING THE LOCATION OF EXISTING AND PROPOSED UNDERGROUND UTILITIES.
- ALL PAVED OR UNPAVED ROADS, DRIVEWAYS, OR SIDEWALKS THAT ARE DISTURBED BY CONSTRUCTION SHALL BE RESTORED IN-KIND. TRENCH MATERIAL SHALL NOT BE STORED IN THE SWALE AREA (BLOCKING DRAINAGE) AND ANY DISTURBED SWALES SHALL BE REGRADED TO RESTORE HISTORICAL DRAINAGE PATTERNS AND STORAGE VOLUME.
- ALL GREEN AREAS DISTURBED BY CONSTRUCTION SHALL BE SODDED (OR HYDROSEEDING IF APPROVED BY ENGINEER) WITHIN THREE (3) DAYS OF FINAL GRADING.
- ALL SIGNS, MAILBOXES, AND INSTALLED LANDSCAPING DISTURBED BY CONSTRUCTION SHALL BE RESTORED IN-KIND.
- POTABLE WATER SERVICE & SANITARY SEWER LATERAL LOCATIONS MAY BE ADJUSTED BASED ON FIELD OBSERVATIONS. TERMINATE CONSTRUCTION OF 1.5" POTABLE WATER PIPELINE AND 6" PVC SEWER LATERAL FIVE (5) FEET FROM EDGE OF EXTERIOR WALL OF PROPOSED RESTROOM FACILITY.
- CONTRACTOR TO MAKE ALL EFFORTS TO REDUCE IMPACTS TO SPECIMEN OAK & PALM TREE CRITICAL ROOT ZONES TO THE GREATEST EXTENT POSSIBLE.

Jurisdictional Permitting Requirements

INDIAN RIVER COUNTY: MINOR SITE PLAN APPROVAL
INDIAN RIVER COUNTY: LAND CLEARING PERMIT
INDIAN RIVER COUNTY: UTILITY CONSTRUCTION PERMIT
ST. JOHNS RIVER WMD: ENVIRONMENTAL RESOURCE PERMIT MODIFICATION
FLORIDA DEP: WASTEWATER SYSTEM PERMIT

VICINITY MAP

(NOT TO SCALE)



GENERAL SITE DATA

APPLICANT / OWNER

INDIAN RIVER COUNTY PARKS, RECREATION, AND CONSERVATION DEPT.
1690 9TH STREET SW
VERO BEACH, FLORIDA 32962
Ph: (772) 226-1780

ENGINEER

MASTELLER & MOLER, INC.
1655 27TH STREET, SUITE 2
VERO BEACH, FLORIDA 32960
Ph: (772) 567-5300

SURVEYOR

MASTELLER, MOLER & TAYLOR INC.
1655 27TH STREET, SUITE 2
VERO BEACH, FLORIDA 32960
Ph: (772) 564-8050

LEGAL DESCRIPTION

INDIAN RIVER FARMS CO SUB PBS 2-12
TR 9, LESS W 310 FT OF E 335 FT OF S
281.03 FT OF N 311.03 FT THEREOF, LESS
RWS

GENERAL STATEMENT

THIS PROJECT PROPOSES ADDING A RESTROOM / CONCESSION BUILDING TO SERVICE THE EXISTING FOOTBALL / SOCCER FIELD. THE PROJECT ALSO INCLUDES THE DEMOLITION AND REMOVAL OF THE EXISTING RESTROOM BUILDING, SEPTIC TANK AND DRAIN FIELD SOUTH OF THE PROPOSED RESTROOM BUILDING AT VICTOR HART PARK.

TAX PARCEL

TAX I.D. # 32-39-21-00001-0090-00001.0

SITE ADDRESS

4691 43RD AVENUE
VERO BEACH, FLORIDA 32967

FIRM PANEL

FLOOD ZONE: "X"
MAP NUMBER: 12061C0241H
DATED: DECEMBER 4, 2012
ESTIMATED BASE FLOOD ELEVATION: '21.95' NAVD88

*ESTIMATED BASE FLOOD ELEVATION PER SJRWMD ERP NO. 40158-5 PLANS PREPARED BY MASTELLER & MOLER, INC.

SCHEDULE

PROJECT COMMENCEMENT: DECEMBER 2023
PROJECT COMPLETION: SEPTEMBER 2024

UTILITY PROVIDERS

POTABLE WATER: IRCDS
WASTEWATER: IRCDS

*EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND BASED ON INFORMATION PROVIDED BY IRCDS

DRAINAGE BASIN AREA SUMMARY

EXISTING CONDITIONS

EXISTING IMPERVIOUS:	377,665 SF	OR	8.67 ACRES
OPEN SPACE AREA:	444,312 SF	OR	10.20 ACRES
LAKE AREA (UNCHANGED):	101,495 SF	OR	2.33 ACRES
TOTAL SITE AREA:		OR	21.20 ACRES

PROPOSED DEVELOPMENT

PROPOSED SIDEWALK:	2,021 SF	OR	0.04 ACRES
PROPOSED BUILDING:	1,385 SF	OR	0.03 ACRES
EXISTING BUILDING & MAINT. PAD (DEMO):	-(701) SF	OR	-(0.01) ACRES
TOTAL PROPOSED NET NEW IMPERVIOUS:	2,705 SF	OR	0.06 ACRES

TOTAL DEVELOPMENT

PROPOSED TOTAL IMPERVIOUS:	380,370 SF	OR	8.73 ACRES	41.18%***
LAKE AREA (UNCHANGED):	101,495 SF	OR	2.33 ACRES	10.99%
PROPOSED TOTAL OPEN SPACE:	441,193 SF	OR	10.14 ACRES	47.83%
TOTAL SITE AREA:		OR	21.20 ACRES	100%

***LESS THAN ALLOWABLE IMPERVIOUS AREA 403,801 SF OR 9.27 ACRES APPROVED FOR THE DRAINAGE BASIN THROUGH ERP 40158-5.

NO.	DATE	DESCRIPTION	DR/APP
4	03/26/24	UPDATED FOR BIDDING	SCG/SCG
3	01/05/24	REVISED PER UCP EMAILED RAI #1 MARKUPS DATED 01/04/24	MBB/SCG
2	11/14/23	REVISED PER IRC EMAILED RAI #1 COMMENTS DATED 11/14/23	MBB/SCG
1	10/25/23	REVISED PER TRC COMMENTS DATED 10/25/23	MBB/SCG

REVISIONS

**MASTELLER & MOLER, INC.**
CONSULTING ENGINEERS

CERTIFICATE OF AUTHORIZATION NUMBER 4204
1655 27th STREET, SUITE 2, VERO BEACH, FLORIDA 32960
(772) 567-5300 / FAX (772) 794-1106

INDIAN RIVER COUNTY

CONSTRUCTION PLANS VICTOR HART PARK RESTROOM & CONCESSION BUILDING FOR I.R.C. PARKS & RECREATION

FLORIDA

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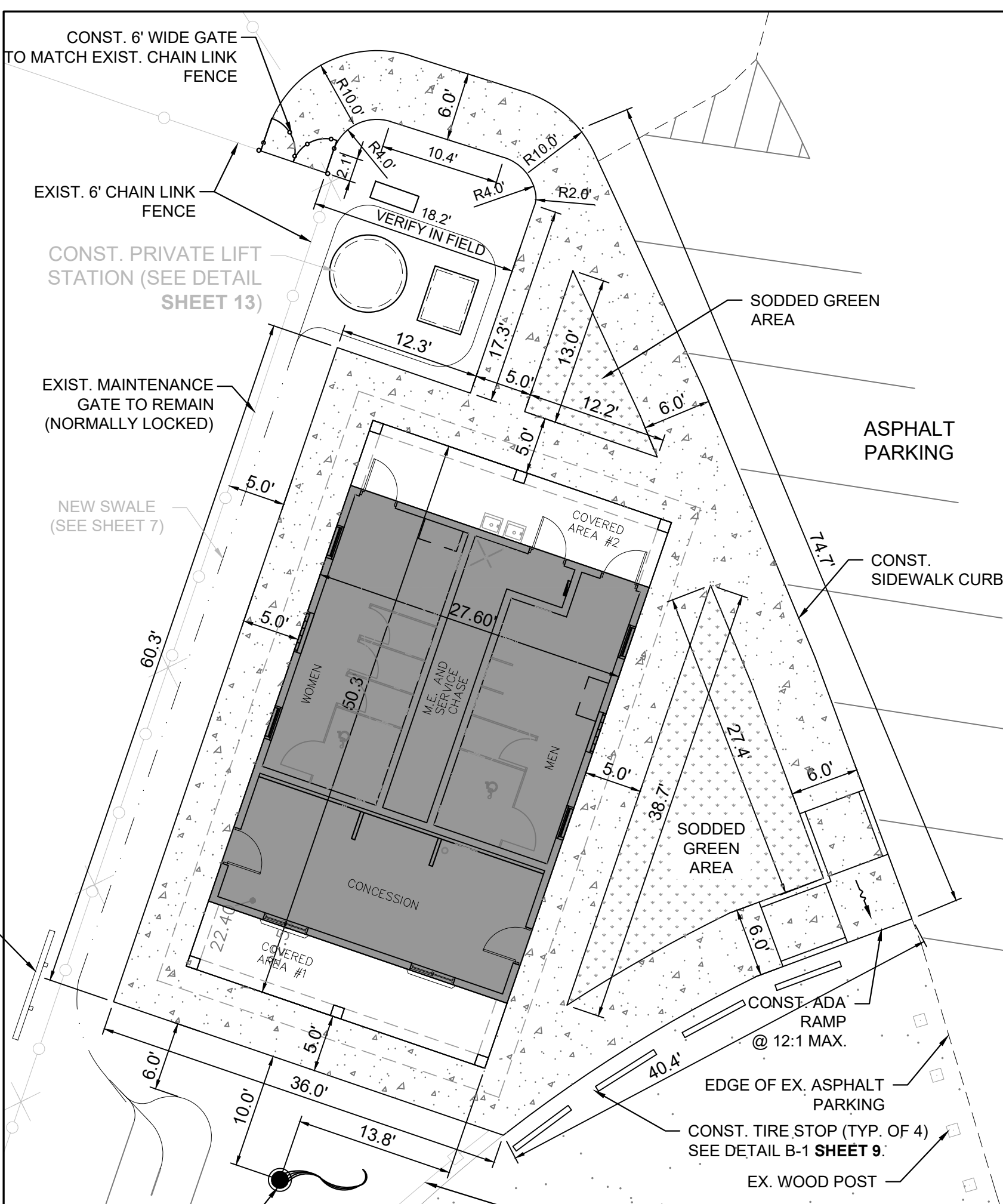
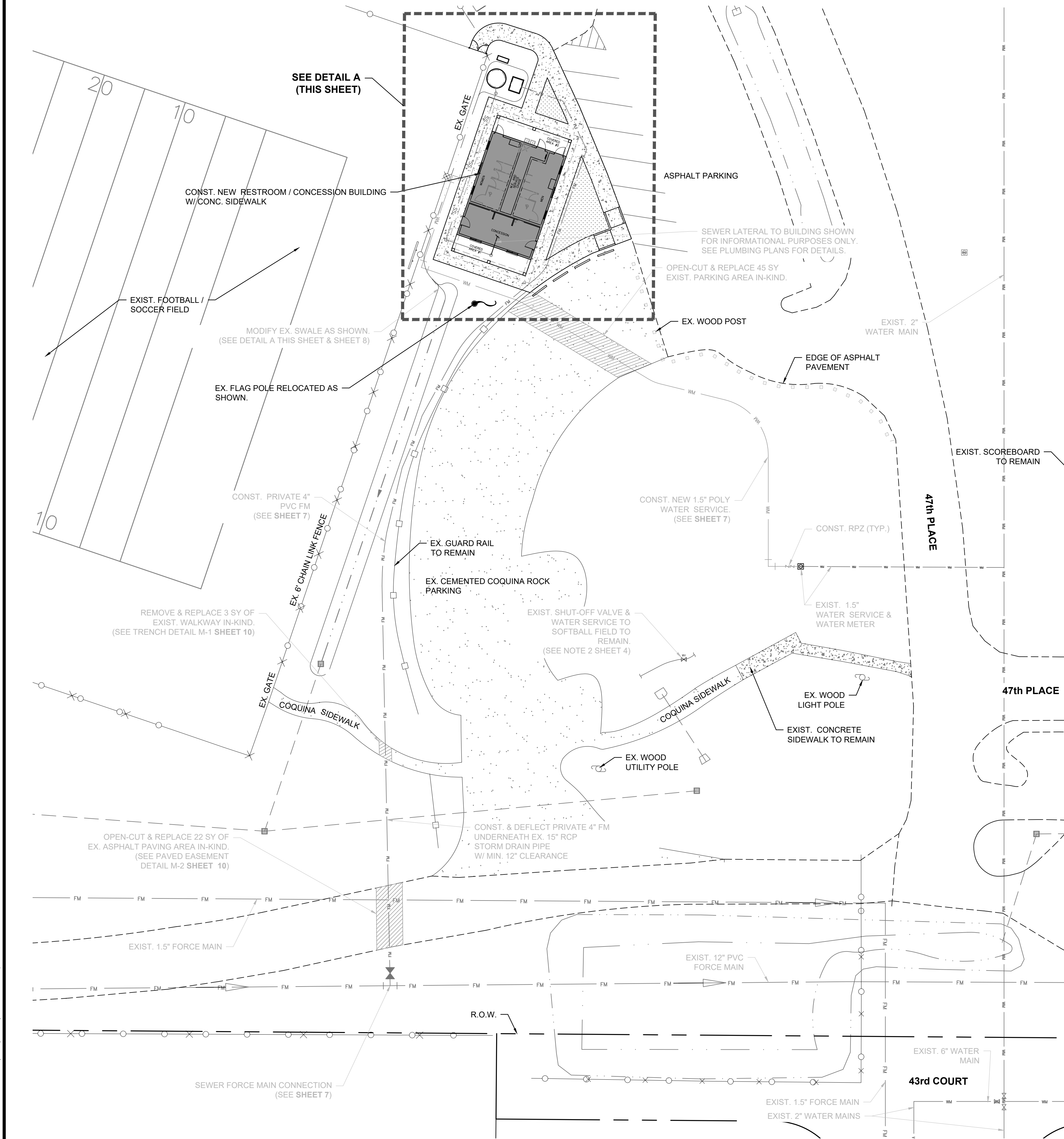
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FOR BIDDING PURPOSES ONLY

03/26/24
SEAN C. GREEN, P.E. FL #90797

DRAWN	GEV
DESIGNED	MBB
CHECKED	SCG
DATE	02/01/23
SCALE	1"=80'
SHEET	5 OF 12
PROJECT NO.	2226

S:\m\Projects\2022\2226 - I.R.C. Victor Hart Restroom & Soccer Field\2226 - BASE.dwg



RESTROOM BUILDING NOTES:

- SEE SHEET 9 FOR ADDITIONAL INFORMATION REGARDING THE PROPOSED RESTROOM / CONCESSION BUILDING.
- THIS PLAN HAS BEEN PREPARED TO DEMONSTRATE THAT THE PROPOSED RESTROOM / CONCESSION BUILDING AT VICTOR HART PARK MEETS ALL APPLICABLE INDIAN RIVER COUNTY RULES AND REQUIREMENTS REGARDING DRAINAGE CONDITIONS AND IMPROVEMENTS FOR MINOR SITE PLANS [914.14(15)(2)].
- THE STRUCTURE IS PROPOSED TO BE SET WITH A FINISHED FLOOR ELEVATION EQUIVALENT TO 23.58' NAVD 88' WHICH IS GREATER THAN THE SITE'S ESTIMATED BASE FLOOD ZONE ELEVATION OF 20.92' NAVD88' PER SJRWMD ERP NO. 40158 - 5 PLANS PREPARED BY MASTELLER & MOLER, INC.

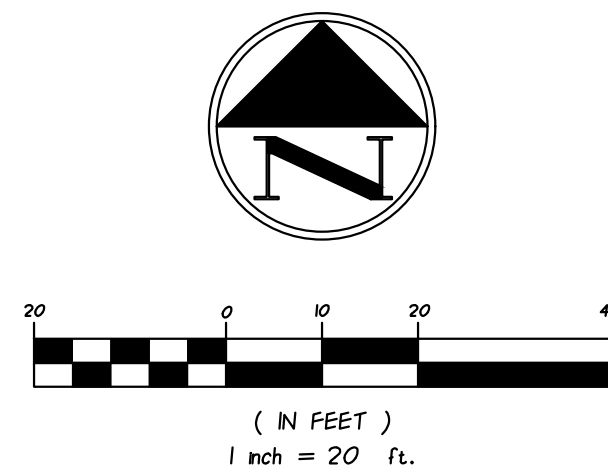
SITE PLAN NOTES:

- NO WETLANDS/NATIVE UPLANDS EXIST WITHIN THE PROJECT LIMITS.
- ALL NEW OUTDOOR LIGHTING (IF APPLICABLE) SHALL BE SHIELDED FROM ADJACENT PROPERTIES AND ROADWAYS.
- ALL NUISANCE EXOTIC VEGETATION SHALL BE REMOVED IN CONJUNCTION WITH SITE IMPROVEMENTS.
- COMMERCIAL BUILDINGS SHALL POST A MINIMUM 6" NUMERICAL ADDRESS.
- SURVEY DATA IS PROVIDED BY MASTELLER, MOLER, & TAYLOR, INC. REFERENCE: PROJECT # 8490.
- PRIOR TO COMMENCING DEMOLITION OR CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UTILITIES IN THE VICINITY, WHETHER SHOW ON THESE PLANS OR NOT.
- SEE ARCHITECTURAL, STRUCTURAL, PLUMBING, ELECTRICAL, ETC. PLANS BY OTHERS.
- NO EXISTING TREES ARE PROPOSED TO BE REMOVED AS PART OF CONSTRUCTION OR DEMOLITION ACTIVITIES.

GENERAL NOTES:

- ON-SITE MATERIAL STORAGE AREA LOCATION(S) TO BE COORDINATED WITH THE PARKS DEPARTMENT.
- THE LOCATION OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. CONTRACTOR SHALL FIELD LOCATE EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE WITH INDIAN RIVER COUNTY, FPL, AT&T, BELLSOUTH, AND ANY OTHER RELEVANT UTILITY PROVIDERS REGARDING THE LOCATION OF EXISTING AND PROPOSED UNDERGROUND UTILITIES.
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- ALL GREEN AREAS DISTURBED BY CONSTRUCTION SHALL BE SODDED (OR HYDROSEEDING IF APPROVED BY ENGINEER) WITHIN THREE (3) DAYS OF FINAL GRADING.
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- POTABLE WATER SERVICE & SANITARY SEWER LATERAL LOCATIONS MAY BE ADJUSTED BASED ON FIELD OBSERVATIONS. TERMINATE CONSTRUCTION OF 1.5" POTABLE WATER PIPELINE AND 6" PVC SEWER LATERAL FIVE (5) FEET FROM EDGE OF EXTERIOR WALL OF PROPOSED RESTROOM FACILITY.
- CONTRACTOR TO MAKE ALL EFFORTS TO REDUCE IMPACTS TO SPECIMEN OAK & PALM TREE CRITICAL ROOT ZONES TO THE GREATEST EXTENT POSSIBLE.

SITE PLAN



DATUM
THE DATUM AND DESIGN GRADES SHOWN WITHIN THESE PLANS REFER TO THE
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988)
DATUM CONVERSION: NGVD '29 = NAVD '88 + (1.43)

GENERAL SITE DATA

APPLICANT / OWNER

INDIAN RIVER COUNTY PARKS, RECREATION,
AND CONSERVATION DEPT.
1590 9TH STREET SW
VERO BEACH, FLORIDA 32962
Ph. (772) 226-1780

GENERAL STATEMENT

THIS PROJECT PROPOSES ADDING A RESTROOM / CONCESSION BUILDING TO SERVICE THE EXISTING FOOTBALL / SOCCER FIELD. THE PROJECT ALSO INCLUDES THE DEMOLITION AND REMOVAL OF THE EXISTING RESTROOM BUILDING, SEPTIC TANK AND DRAIN FIELD SOUTH OF THE PROPOSED RESTROOM BUILDING AT VICTOR HART PARK

TAX PARCEL

TAX I.D. # 32-39-21-00001-0090-00001.0

SITE ADDRESS

4691 43RD AVENUE
VERO BEACH, FLORIDA 32967

FIRM PANEL

FLOOD ZONE: "X"
MAP NUMBER: 12061C0241H
DATED: DECEMBER 4, 2012
ESTIMATED BASE FLOOD ELEVATION: "21.95' NAVD88"

*ESTIMATED BASE FLOOD ELEVATION PER SJRWMD ERP NO. 40158-5 PLANS PREPARED BY MASTELLER & MOLER, INC.

SCHEDULE

PROJECT COMMENCEMENT: DECEMBER 2023
PROJECT COMPLETION: SEPTEMBER 2024

ENGINEER

MASTELLER & MOLER, INC.
1655 27TH STREET, SUITE 2
VERO BEACH, FLORIDA 32960
Ph. (772) 567-5300

SURVEYOR

MASTELLER, MOLER & TAYLOR INC.
1655 27TH STREET, SUITE 2
VERO BEACH, FLORIDA 32960
Ph. (772) 564-8050

LEGAL DESCRIPTION

INDIAN RIVER FARMS CO SUB PBS 2-12
TR 9, LESS W 310 FT OF E 335 FT OF S
281.03 FT OF N 311.03 FT THEREOF, LESS
RWS

UTILITY PROVIDERS

POTABLE WATER IRCDUS
WASTEWATER IRCDUS

*EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND BASED ON INFORMATION PROVIDED BY IRCDUS

DRAINAGE BASIN AREA SUMMARY

EXISTING CONDITIONS

EXISTING IMPERVIOUS:	377,665 SF	OR	8.67 ACRES
OPEN SPACE AREA:	444,312 SF	OR	10.20 ACRES
LAKE AREA (UNCHANGED):	101,495 SF	OR	2.33 ACRES
TOTAL SITE AREA:	923,472 SF	OR	21.20 ACRES

PROPOSED DEVELOPMENT

PROPOSED SIDEWALK:	2,021 SF	OR	0.04 ACRES
PROPOSED BUILDING:	1,385 SF	OR	0.03 ACRES
EXISTING BUILDING & MAINT. PAD (DEMO):	-7,011 SF	OR	-0.01 ACRES
TOTAL PROPOSED NET NEW IMPERVIOUS:	2,705 SF	OR	0.06 ACRES

TOTAL DEVELOPMENT

PROPOSED TOTAL IMPERVIOUS:	380,370 SF	OR	8.73 ACRES	41.18%***
LAKE AREA (UNCHANGED):	101,495 SF	OR	2.33 ACRES	10.99%
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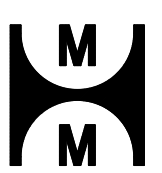
***LESS THAN ALLOWABLE IMPERVIOUS AREA 403,801 SF OR 9.27 ACRES APPROVED FOR THE DRAINAGE BASIN THROUGH ERP 40158-5.

Jurisdictional Permitting Requirements

INDIAN RIVER COUNTY:	MINOR SITE PLAN APPROVAL
INDIAN RIVER COUNTY:	LAND CLEARING PERMIT
INDIAN RIVER COUNTY:	UTILITY CONSTRUCTION PERMIT
ST. JOHNS RIVER WMD:	ENVIRONMENTAL RESOURCE PERMIT MODIFICATION
FLORIDA DEP:	WASTEWATER SYSTEM PERMIT

NO.	DATE	DESCRIPTION	DR/APP
4	03/26/24	UPDATED FOR BIDDING	SCG/SCG
3	01/05/24	REVISED PER UCP EMAILED RAI #1 MARKUPS DATED 01/04/24	MBB/SCG
2	11/14/23	REVISED PER IRC EMAILED RAI #1 COMMENTS DATED 11/14/23	MBB/SCG
1	10/25/23	REVISED PER TRC COMMENTS DATED 10/25/23	MBB/SCG

REVISIONS

**MASTELLER & MOLER, INC.**
CONSULTING ENGINEERS

CERTIFICATE OF AUTHORIZATION NUMBER 4204
1655 27TH STREET, SUITE 2, VERO BEACH, FLORIDA 32960
(772) 567-5300 / FAX (772) 794-1106

CONSTRUCTION PLANS
VICTOR HART PARK RESTROOM & CONCESSION BUILDING
FOR
I.R.C. PARKS & RECREATION

INDIAN RIVER COUNTY

FLORIDA

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FOR BIDDING PURPOSES ONLY

03/26/24

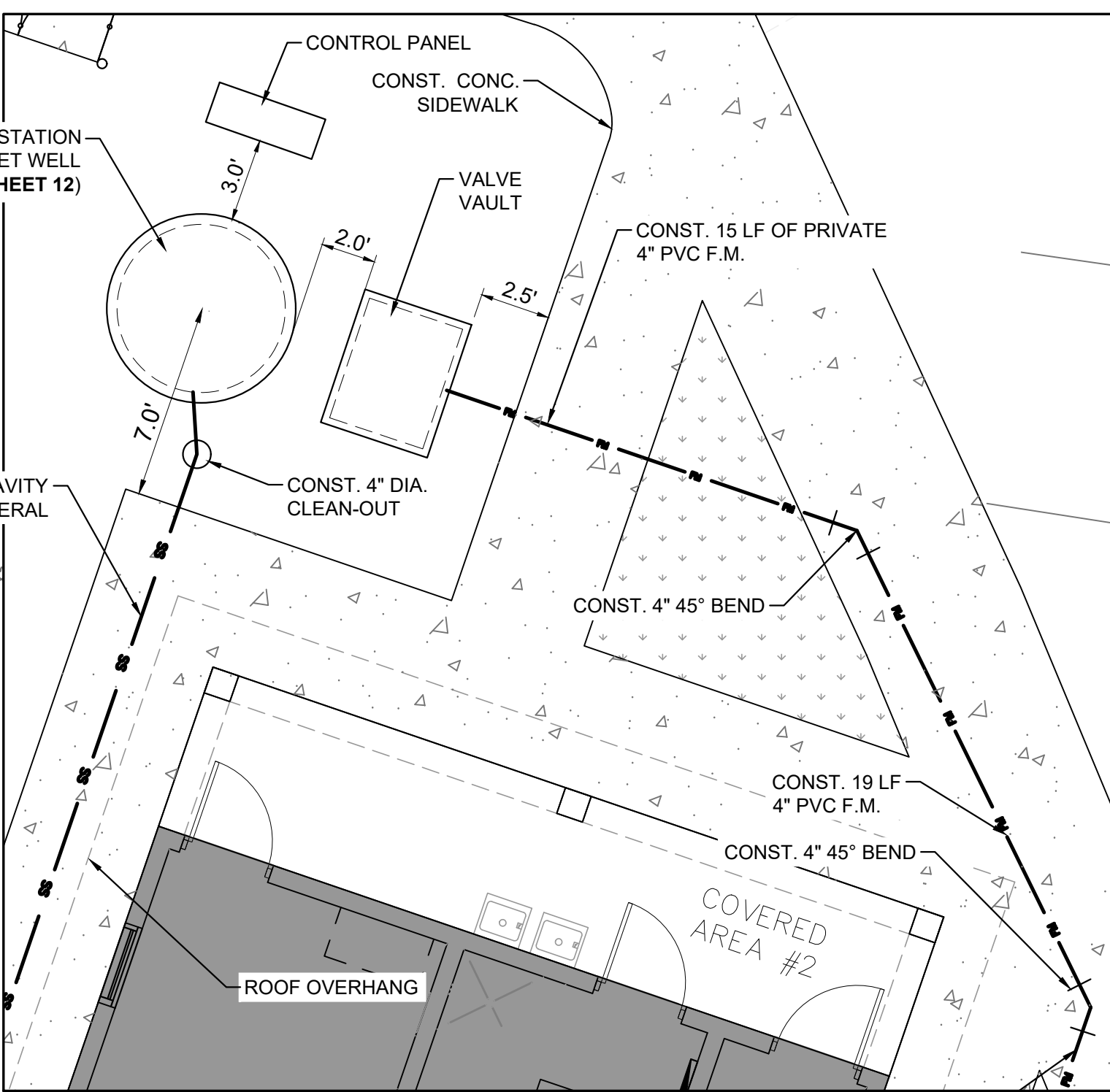
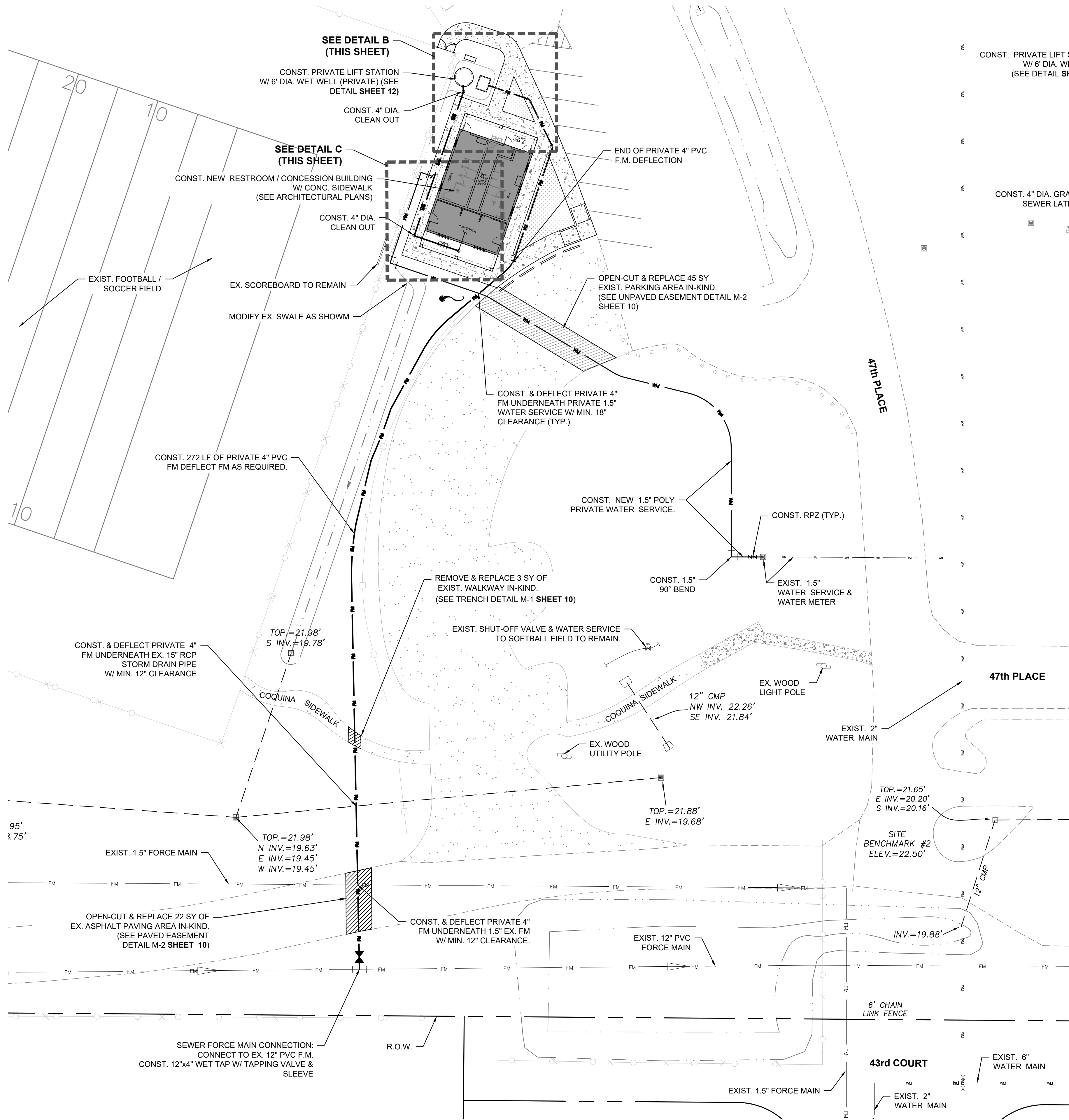
SCALE 1"=20'

SHEET 6 OF 12

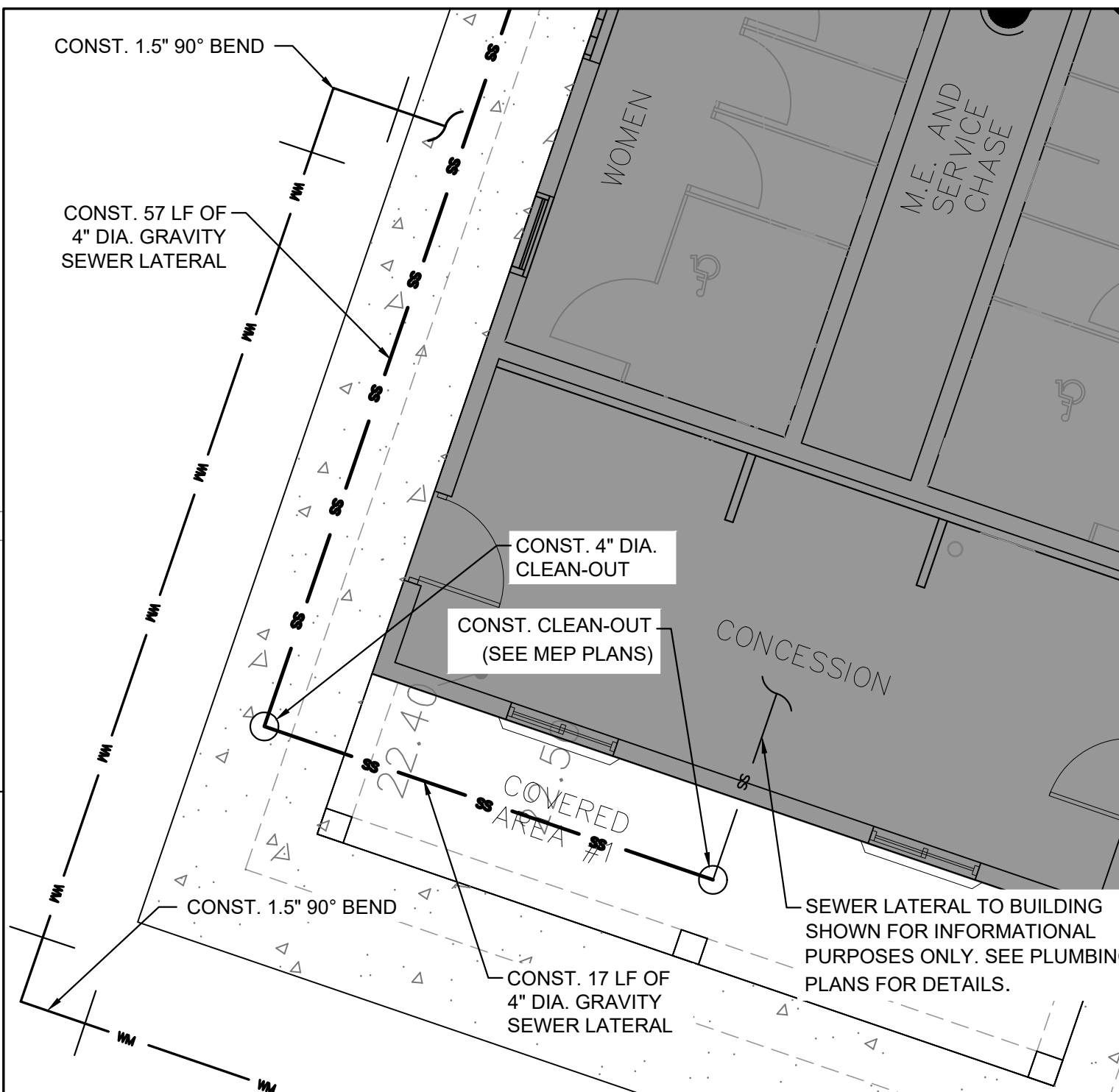
PROJECT NO: 2226

SEAN C. GREEN, P.E. FL #90797

S:\m\Projects\2022\2226 - I.R.C. Victor Hart Restroom & Concession Building\2226 - BASE.dwg

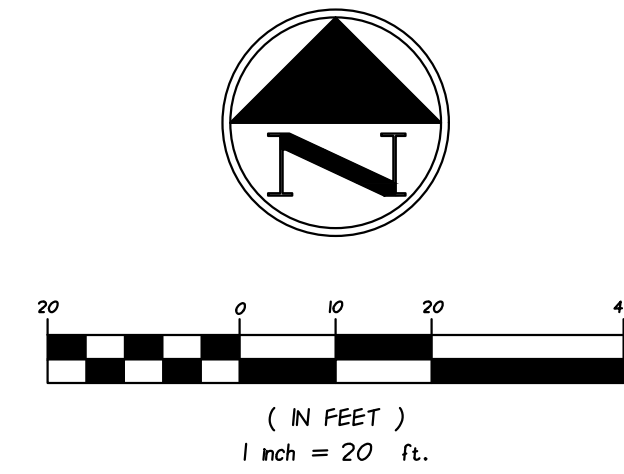


DETAIL B
SCALE 1" = 5'



DETAIL C
SCALE 1" = 5'

UTILITY & DRAINAGE PLANS



DATUM
THE DATUM AND DESIGN GRADES SHOWN WITHIN THESE PLANS REFER TO THE
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
DATUM CONVERSION: NGVD '29 = NAVD '88 + (1.43)

GENERAL SITE DATA

APPLICANT / OWNER
INDIAN RIVER COUNTY PARKS, RECREATION, AND CONSERVATION DEPT.
1990 9TH STREET SW
VERO BEACH, FLORIDA 32962
Ph. (772) 226-1780

GENERAL STATEMENT
THIS PROJECT PROPOSES ADDING A RESTROOM / CONCESSION BUILDING TO SERVICE THE EXISTING FOOTBALL / SOCCER FIELD. THE PROJECT ALSO INCLUDES THE DEMOLITION AND REMOVAL OF THE EXISTING RESTROOM BUILDING, SEPTIC TANK AND DRAIN FIELD SOUTH OF THE PROPOSED RESTROOM BUILDING AT VICTOR HART PARK

TAX PARCEL
TAX I.D. # 32-39-21-00001-0090-00001.0

SITE ADDRESS
4691 43RD AVENUE
VERO BEACH, FLORIDA 32967

FIRM PANEL
FLOOD ZONE: "X"
MAP NUMBER: 12061C0241H
DATED: DECEMBER 4, 2015
ESTIMATED BASE FLOOD ELEVATION: *21.95' NAVD88*

*ESTIMATED BASE FLOOD ELEVATION PER SJRWMD ERP NO. 40158-5 PLANS PREPARED BY MASTELLER & MOLER, INC.

SCHEDULE

PROJECT COMMENCEMENT: DECEMBER 2023
PROJECT COMPLETION: SEPTEMBER 2024

ENGINEER
MASTELLER & MOLER, INC.
1655 27TH STREET, SUITE 2
VERO BEACH, FLORIDA 32960
Ph. (772) 567-5300

SURVEYOR
MASTELLER, MOLER & TAYLOR INC.
1655 27TH STREET, SUITE 2
VERO BEACH, FLORIDA 32960
Ph. (772) 564-8050

LEGAL DESCRIPTION
INDIAN RIVER FARMS CO SUB PBS 2-12 TR 9, LESS W 310 FT OF E 335 FT OF S 281.03 FT OF N 311.03 FT THEREOF, LESS RWS

UTILITY PROVIDERS

POTABLE WATER IRCDUS
WASTEWATER IRCDUS

*EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND BASED ON INFORMATION PROVIDED BY IRCDUS

RESTROOM FACILITY NOTES:

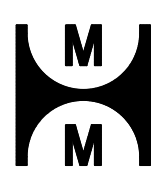
- SEE SHEET 9 FOR ADDITIONAL INFORMATION REGARDING THE PROPOSED RESTROOM / CONCESSION BUILDING.
- THIS PLAN HAS BEEN PREPARED TO DEMONSTRATE THAT THE PROPOSED RESTROOM / CONCESSION BUILDING AT VICTOR HART PARK MEETS ALL APPLICABLE INDIAN RIVER COUNTY RULES AND REQUIREMENTS REGARDING DRAINAGE CONDITIONS AND IMPROVEMENTS FOR MINOR SITE PLANS [914.14(15)(2)].
- THE STRUCTURE IS PROPOSED TO BE SET WITH A FINISHED FLOOR ELEVATION EQUIVALENT TO 23.58' NAVD 88' WHICH IS GREATER THAN THE SITE'S ESTIMATED BASE FLOOD ZONE ELEVATION OF 20.92' NAVD88' PER SJRWMD ERP NO. 40158 - 5 PLANS PREPARED BY MASTELLER & MOLER, INC.

WATER & SEWER NOTES:

- ALL NEWLY CONSTRUCTED WATER MAINS, SEWAGE FORCE MAINS, AND GRAVITY SEWER SHALL HAVE A MINIMUM 36" COVER.
- ALL NEWLY CONSTRUCTED WATER MAIN AND SEWAGE FORCE MAIN VALVES, FITTINGS, AND PIPES SHALL BE PROPERLY RESTRAINED.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY FITTINGS TO MAINTAIN THE REQUIRED VERTICAL AND HORIZONTAL SEPARATION BETWEEN NEWLY CONSTRUCTED WATER AND SEWAGE FORCE MAINS, AND STORM, SANITARY SEWER, AND OTHER UTILITIES.
- AT UTILITY CROSSINGS, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THAT THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT THE WATER MAIN JOINTS ARE AT LEAST THREE FEET (3') FROM ALL JOINTS IN VACUUM TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER, AND AT LEAST SIX FEET (6') FROM ALL JOINTS IN GRAVITY OR PRESSURE TYPE SANITARY SEWERS, OR WASTEWATER FORCE MAINS.
- THE APPARENT SIZE OF VALVES, FITTINGS, METER BOX & SEWER CLEANOUTS DEPICTED IN THESE CONSTRUCTION PLANS HAS BEEN EXAGGERATED FOR CLARITY. IT IS INTENDED THAT ALL WATER MAIN VALVES & VALVE BOXES SHALL BE LOCATED IN GREEN AREAS OR PAVEMENT, AND NOT IN CURB OR SIDEWALK AREAS.
- THE LOCATIONS OF EXISTING UTILITIES DEPICTED ON THESE PLANS ARE APPROXIMATE. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD LOCATE ALL UTILITIES IN THE VICINITY, WHETHER DEPICTED ON THESE PLANS OR NOT.
- ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING.
- CONCRETE CRADLE/SADDLE SHALL BE USED WHEREVER WATER MAINS, GRAVITY SEWER MAINS, FORCE MAINS, AND STORM SEWER PIPES CROSS WITH A VERTICAL SEPARATION OF LESS THAN TWELVE (12") INCHES.
- CONSTRUCTION OF THE WATER DISTRIBUTION AND WASTEWATER COLLECTION PIPE NETWORKS SHALL COMPLY WITH THE CITY OF VERO BEACH WATER & SEWER DEPARTMENT STANDARD DETAILS & SPECIFICATIONS, LATEST EDITION AND BE IN ACCORDANCE WITH FDEP REGULATIONS.
- ALL DRAINAGE STRUCTURES SHALL COMPLY WITH FDOT STANDARD PLANS (FY 2022-23).
- ONSITE DRAINAGE PIPE BELOW GREEN AREAS MAY BE CORRUGATED ALUMINUM (CAP).
- ALL ROOF DRAINAGE SHALL BE DIRECTED TOWARD GREEN AREAS OUTSIDE THE BUILDING ENVELOPE, SWALE, OR INLETS, AS DEPICTED ON THIS PLAN.
- CONTRACTOR SHALL INSTALL & MAINTAIN INLET PROTECTION SYSTEMS AS NEEDED AT APPLICABLE EXISTING AND NEWLY CONSTRUCTED DRAINAGE STRUCTURES, AND IN ACCORDANCE WITH SWPPP AND EROSION PREVENTION & SEDIMENT CONTROL BMPs.
- PIPE LENGTHS LISTED ARE MEASURED FROM END-OF-MITERED-END TO END-OF-MITERED-END.

NO.	DATE	DESCRIPTION	DR/APP
4	03/26/24	UPDATED FOR BIDDING	SCG/SCG
3	01/05/24	REVISED PER UCP EMAILED RAI #1 MARKUPS DATED 01/04/24	MBB/SCG
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REVISIONS



MASTELLER & MOLER, INC.
CONSULTING ENGINEERS

CERTIFICATE OF AUTHORIZATION NUMBER 4204
1655 27th STREET, SUITE 2, VERO BEACH, FLORIDA 32960
(772) 567-5300 / FAX (772) 794-1106

INDIAN RIVER COUNTY

CONSTRUCTION PLANS
VICTOR HART PARK RESTROOM & CONCESSION BUILDING
FOR
I.R.C. PARKS & RECREATION

FLORIDA

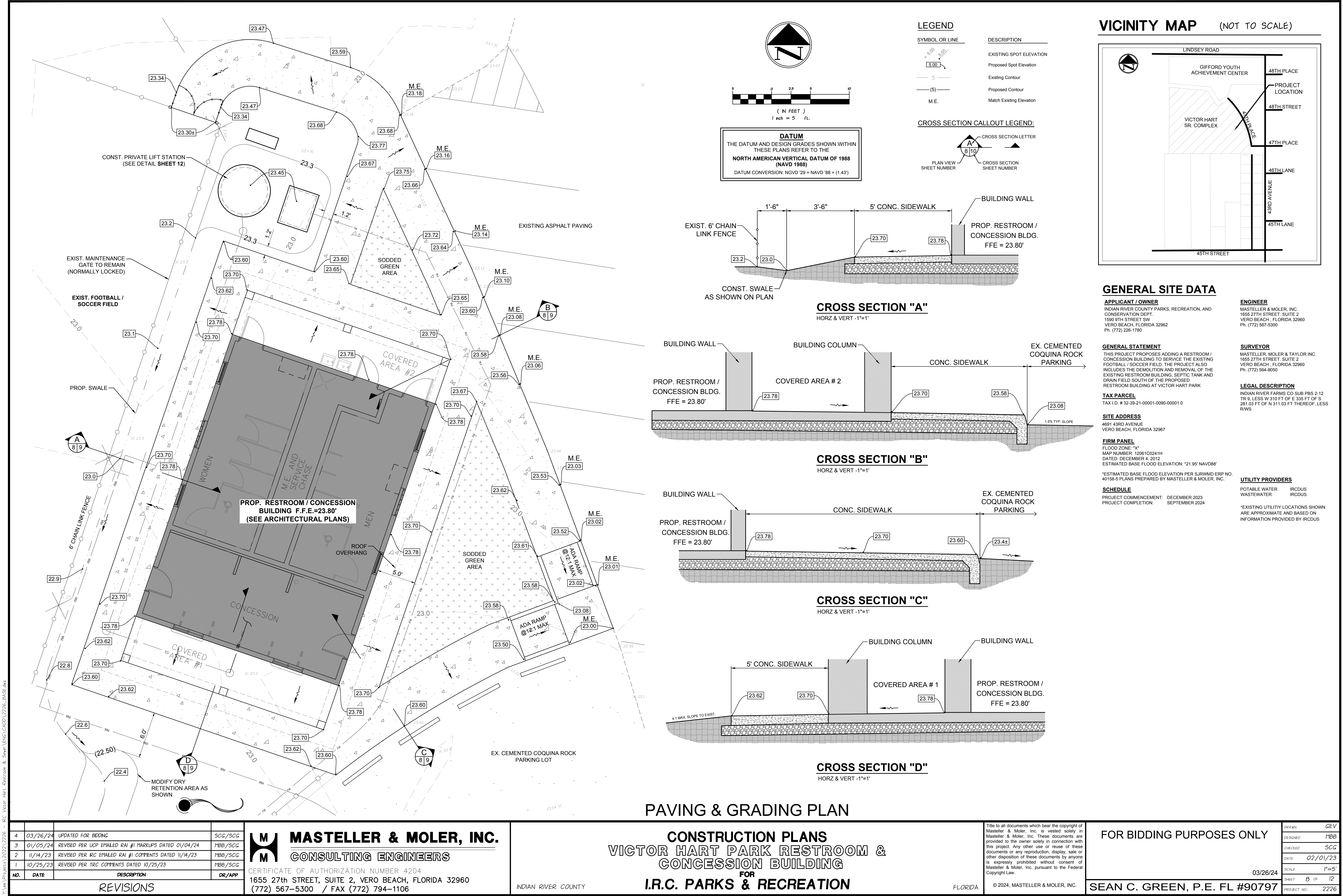
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FOR BIDDING PURPOSES ONLY

DRAWN	GEV
DESIGNED	MBB
CHECKED	SCG
DATE	02/01/23
SCALE	1"=20'
SHEET	7 OF 12
PROJECT NO.	2226

03/26/24
SEAN C. GREEN, P.E. FL #90797



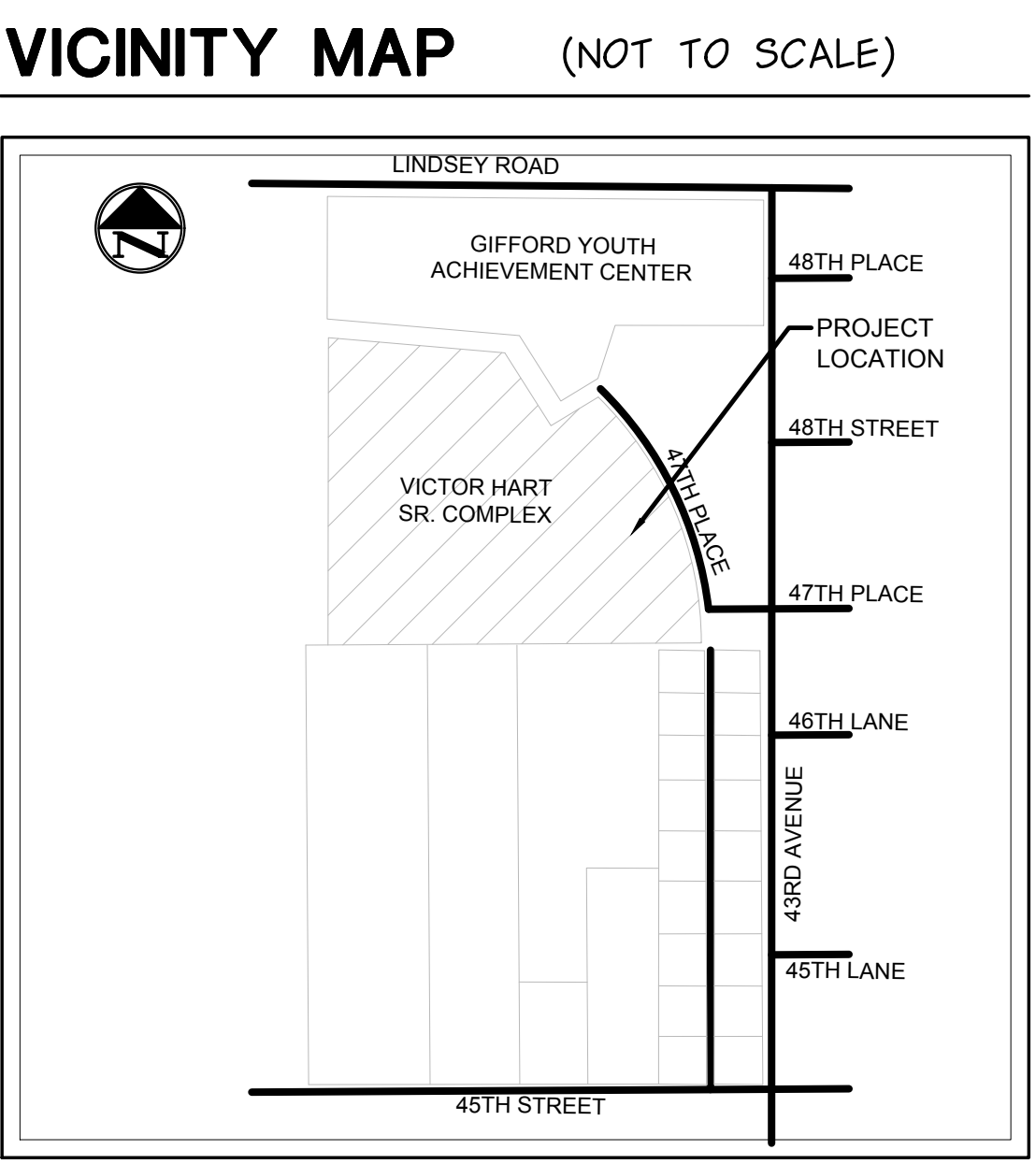
LEGEND

SYMBOL OR LINE	DESCRIPTION
	EXISTING SPOT ELEVATION
	Proposed Spot Elevation
	Existing Contour
	Proposed Contour
	Match Existing Elevation

CROSS SECTION CALLOUT LEGEND:

CROSS SECTION LETTER
 PLAN VIEW
 SHEET NUMBER

DATUM
THE DATUM AND DESIGN GRADES SHOWN WITHIN THESE PLANS REFER TO THE
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988)
DATUM CONVERSION: NGVD '29 = NAVD '88 + (1.43')



GENERAL SITE DATA

APPLICANT / OWNER
INDIAN RIVER COUNTY PARKS, RECREATION, AND CONSERVATION DEPT.
1590 9TH STREET SW
VERO BEACH, FLORIDA 32962
Ph. (772) 226-1780

ENGINEER
MASTELLER & MOLER, INC.
1655 27TH STREET, SUITE 2
VERO BEACH, FLORIDA 32960
Ph. (772) 564-5300

SURVEYOR
MASTELLER, MOLER & TAYLOR INC.
1655 27TH STREET, SUITE 2
VERO BEACH, FLORIDA 32960
Ph. (772) 564-8050

LEGAL DESCRIPTION
INDIAN RIVER FARMS CO SUB PBS 2-12
TR 9, LESS W 310 FT OF E 335 FT OF S 281.03 FT OF N 311.03 FT THEREOF, LESS RWS

GENERAL STATEMENT
THIS PROJECT PROPOSES ADDING A RESTROOM / CONCESSION BUILDING TO SERVICE THE EXISTING FOOTBALL / SOCCER FIELD. THE PROJECT ALSO INCLUDES THE DEMOLITION AND REMOVAL OF THE EXISTING RESTROOM BUILDING, SEPTIC TANK AND DRAIN FIELD SOUTH OF THE PROPOSED RESTROOM BUILDING AT VICTOR HART PARK

TAX PARCEL
TAX I.D. # 32-39-21-00001-0090-00001.0

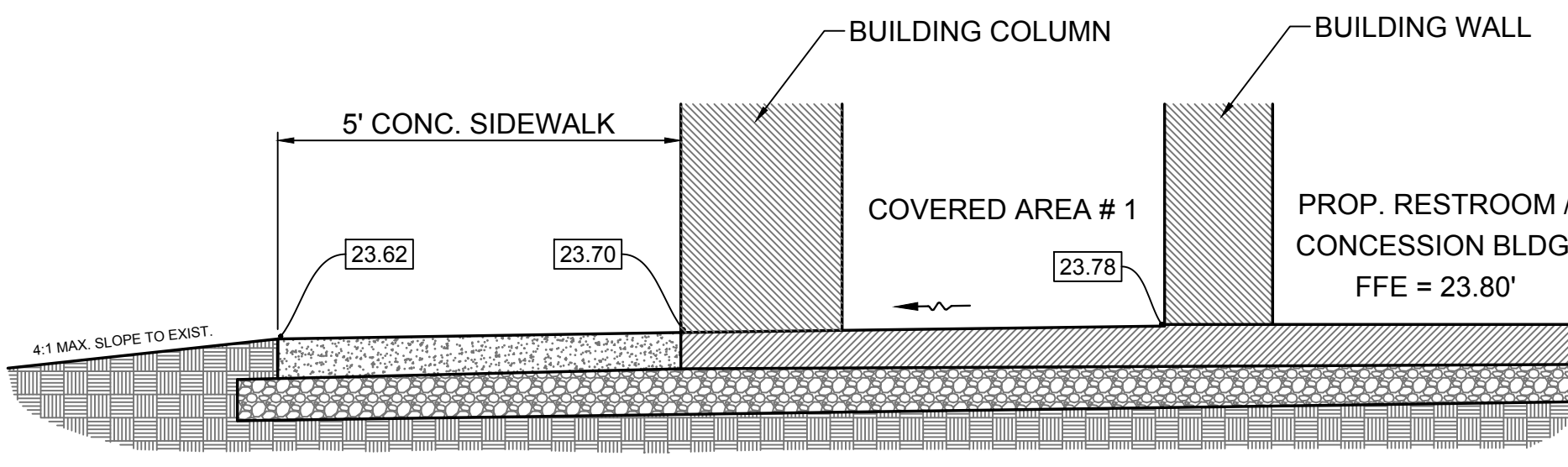
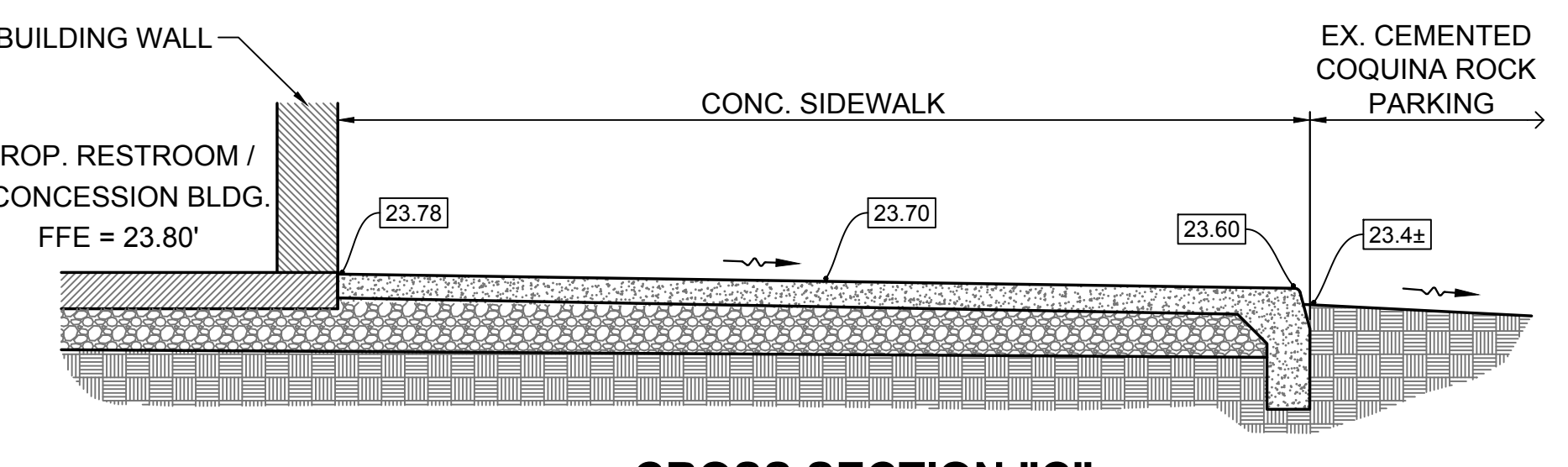
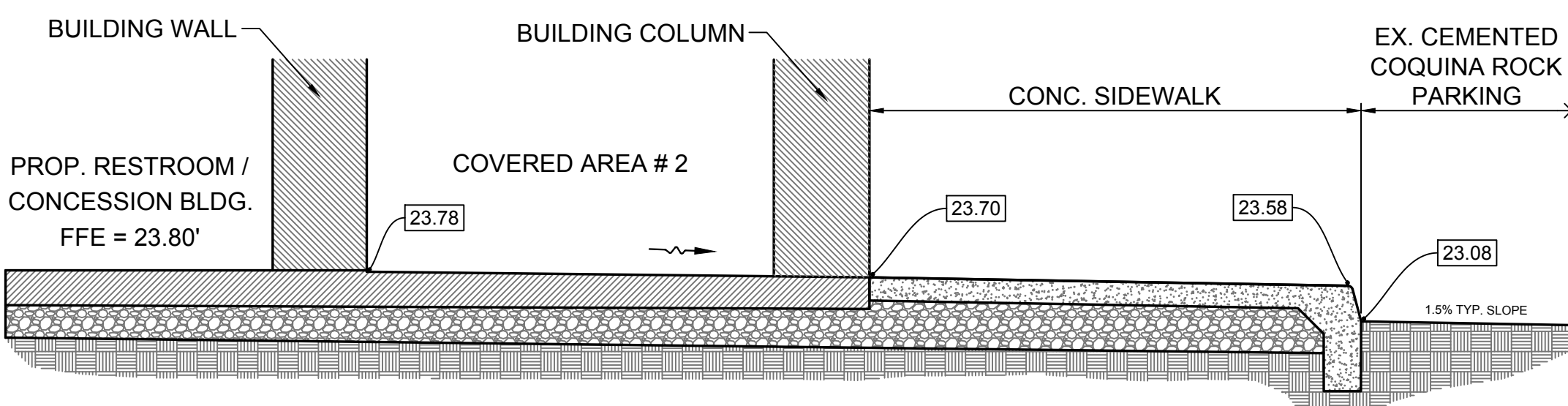
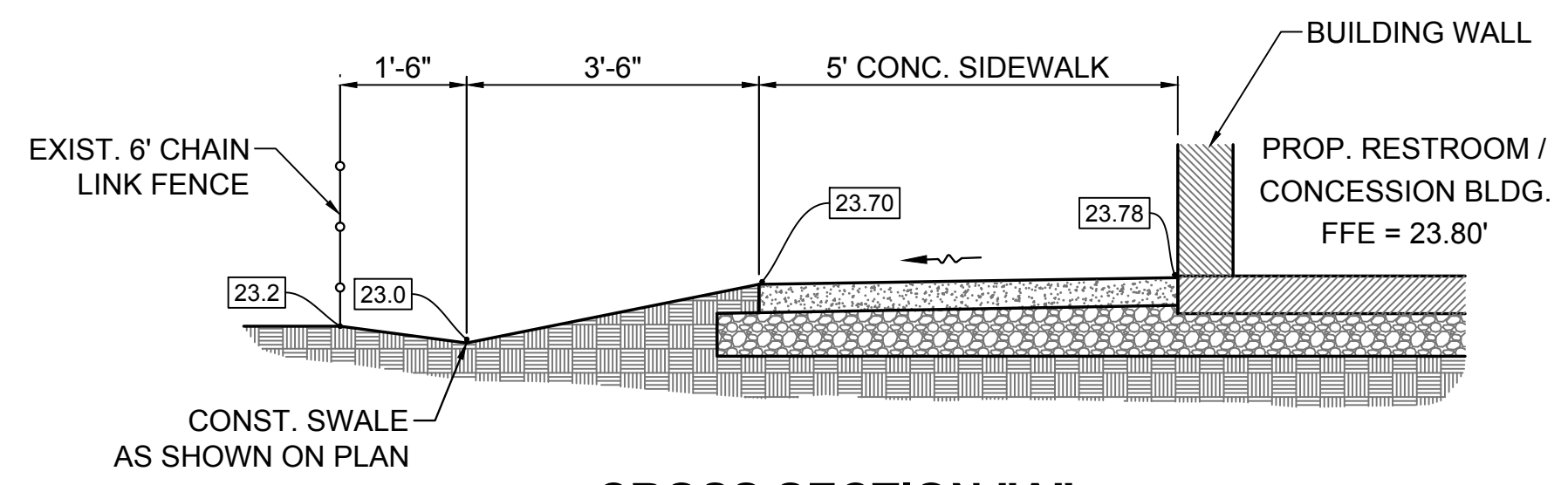
SITE ADDRESS
4691 43RD AVENUE
VERO BEACH, FLORIDA 32967

FIRM PANEL
FLOOD ZONE: "X"
MAP NUMBER: 12081C0241H
DATED: DECEMBER 4, 2012
ESTIMATED BASE FLOOD ELEVATION: "21.95" NAVD88"

SCHEDULE
PROJECT COMMENCEMENT: DECEMBER 2023
PROJECT COMPLETION: SEPTEMBER 2024

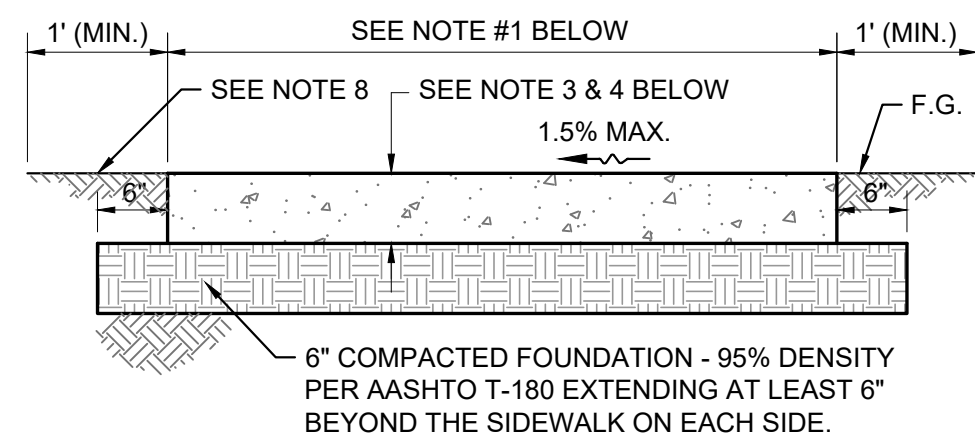
UTILITY PROVIDERS
POTABLE WATER: ICRDUS
WASTEWATER: ICRDUS

EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND BASED ON INFORMATION PROVIDED BY ICRDUS

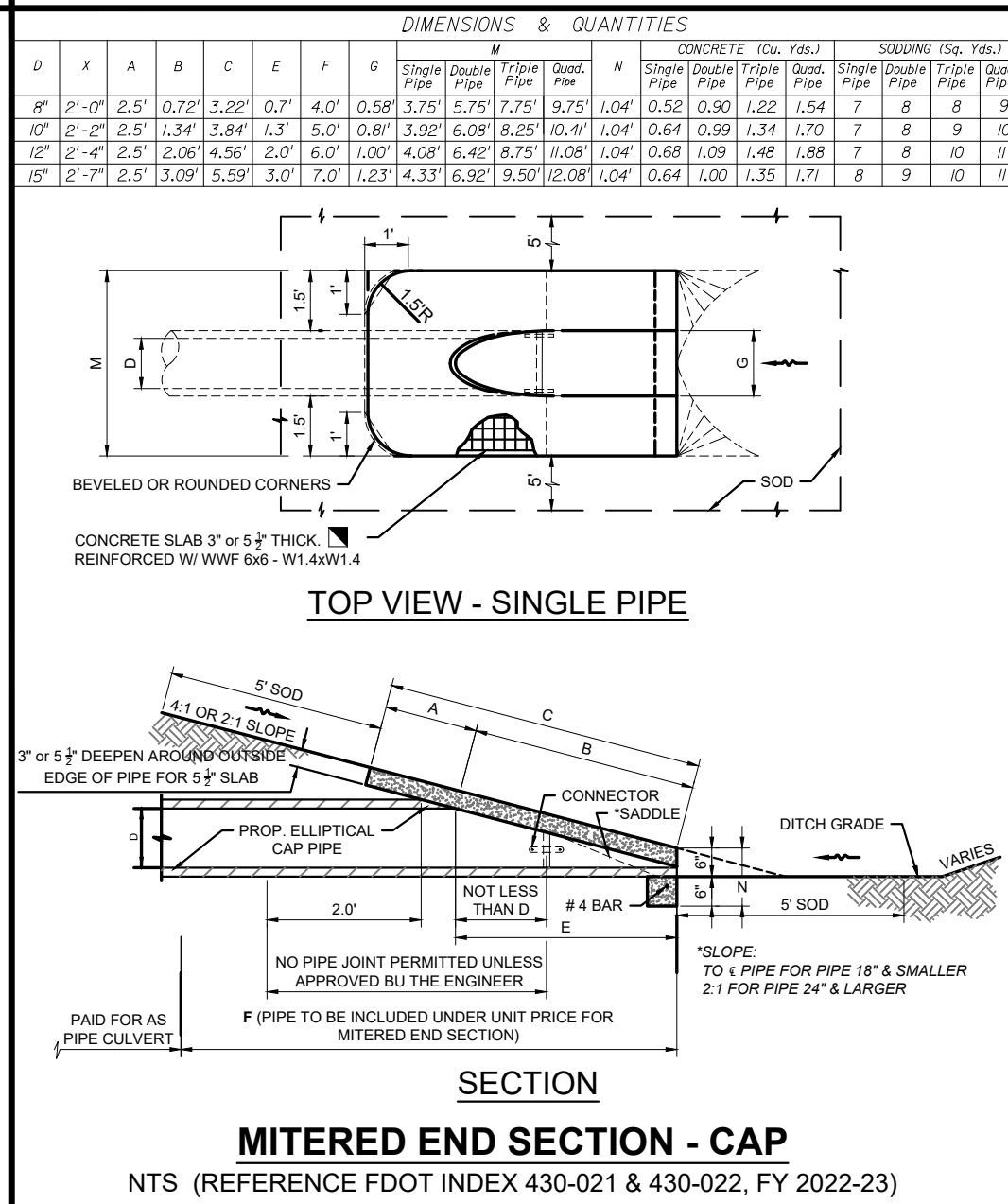


PAVING & GRADING PLAN

REVISIONS			MASTELLER & MOLER, INC. CONSULTING ENGINEERS		CONSTRUCTION PLANS VICTOR HART PARK RESTROOM & CONCESSION BUILDING FOR I.R.C. PARKS & RECREATION		INDIAN RIVER COUNTY FLORIDA		03/26/24 SEAN C. GREEN, P.E. FL #90797		
NO.	DATE	DESCRIPTION	DR/APP	CERTIFICATE OF AUTHORIZATION NUMBER 4204 1655 27TH STREET, SUITE 2, VERO BEACH, FLORIDA 32960 (772) 567-5300 / FAX (772) 794-1106	Title to all documents which bear the copyright of Masteller & Moler, Inc. is vested solely in Masteller & Moler, Inc. These documents are provided to the owner solely in connection with this project. Any other use or reuse of these documents or any reproduction, display, sale or other disposition of these documents by anyone is expressly prohibited without consent of Masteller & Moler, Inc. pursuant to the Federal Copyright Law.					DRAWN: GEV DESIGNED: MBB CHECKED: SCC DATE: 02/01/23 SCALE: 1"=5' SHEET: 8 OF 12 PROJECT NO.: 2226	
4	03/26/24	UPDATED FOR BIDDING	SCG/SCG							FOR BIDDING PURPOSES ONLY	
3	01/05/24	REVISED PER UCP EMAILED RAI #1 MARKUPS DATED 01/04/24	MBB/SCG								
2	11/14/23	REVISED PER IRC EMAILED RAI #1 COMMENTS DATED 11/14/23	MBB/SCG								
1	10/25/23	REVISED PER IRC COMMENTS DATED 10/25/23	MBB/SCG								



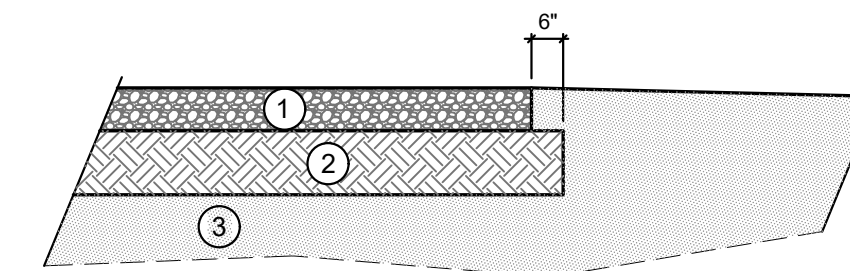
- A**
1. CONCRETE SIDEWALK AND DRIVEWAY CROSSWALK SHALL COMPLY WITH FLORIDA ACCESSIBILITY CODE REQUIREMENTS FOR CROSS-SLOPE, ETC. ON ACCESSIBLE ROUTE REMEDIAL CONSTRUCTION WILL BE REQUIRED SHOULD SIDEWALK/CROSSWALK BE OUT OF COMPLIANCE.
 2. CONCRETE SHALL HAVE A REQUIRED MINIMUM COMPRESSIVE STRENGTH OF 3,000 P.S.I. IN 28 DAYS.
 3. FIBER MESH REINFORCED CONCRETE SHALL BE USED IN LIEU OF STEEL MESH.
 4. SIDEWALK TO BE 4" THICKNESS. UNLESS STATED OTHERWISE ON THE PLANS.
 5. PROVIDE JOINTS EVERY 5' AND AT ALL P.C.'s & P.T.'s AT CURVED SECTIONS.



PROPOSED UTILITY	HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS					
	POTABLE WATER		SANITARY SEWER (GRAVITY & F.M.)		STORM SEWER	
	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.
POTABLE WATER	—	—	6' (min) 10' (pref)	18"	3'	18"
SANITARY SEWER	6' (min) 10' (pref)	18"	—	—	—	—

GENERAL NOTES:

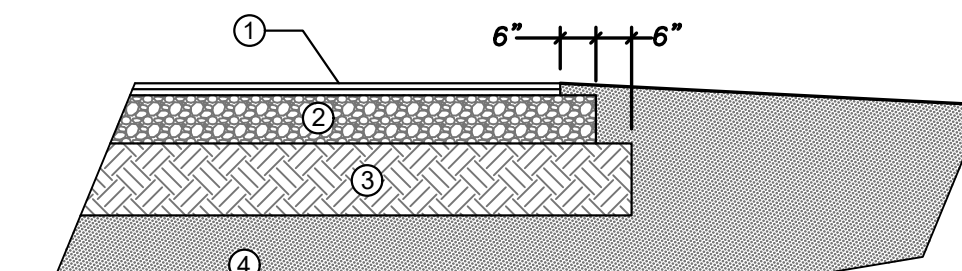
- 1) THE TABLE REPRESENTS THE MINIMUM SEPARATION REQUIREMENTS AS DESCRIBED IN F.D.E.P. RULES OF THE FLORIDA ADMINISTRATION CODE (F.A.C.) THESE SEPARATION REQUIREMENTS SHALL APPLY BETWEEN NEWLY PROPOSED UTILITY LINES AND EXISTING OR PROPOSED UTILITY LINES.
- 2) ALL SEPARATION DISTANCES ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE UNLESS OTHERWISE SPECIFIED. CRITERION PRODUCING GREATER CLEARANCE SHALL BE USED.
- 3) USE ONE FULL LENGTH OF PIPE CENTERED AT THE POINT OF CROSSING. SPECIAL SUPPORT MAY BE REQUIRED.
- 4) NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SANITARY OR STORM WATER MANHOLE OR STRUCTURE.
- 5) HORIZONTAL AND VERTICAL CLEARANCES MUST MEET FDEP REQUIRED MINIMUMS. MITIGATION FOR VARIANCES WILL REQUIRE AN INDIVIDUAL PERMIT.



- ① BASE COURSE: 6-INCHES
THE BASE COURSE SHALL BE CEMENTED COQUINA ROCK (LBR 100) OR LIMEROCK AND COMPACTED TO 98 PERCENT OF ITS MODIFIED DRY PROCTOR VALUE (AASHTO T-180).
- ② STABILIZED SUBGRADE: 8-INCHES
SUITABLE CLAYED SOIL HAVING A LIMEROCK BEARING RATIO (LBR) OF 40 SHOULD BE USED FOR THE STABILIZED SUBGRADE AND COMPACTED TO 98 PERCENT OF ITS MODIFIED DRY PROCTOR VALUE (AASHTO T-180).
- ③ ADDITIONAL FILL SHALL CONSIST OF CLEAN GRANULAR SAND CONTAINING LESS THAN 10% MATERIAL PASSING THE U.S. STANDARD NO. 200 MESH SIEVE AND PLACED IN LOOSE LAYERS OF 12 INCHES AND COMPACTED TO NO LESS THAN 95 PERCENT OF ITS MODIFIED DRY PROCTOR VALUE (AASHTO T-180).

SPECIFICATIONS

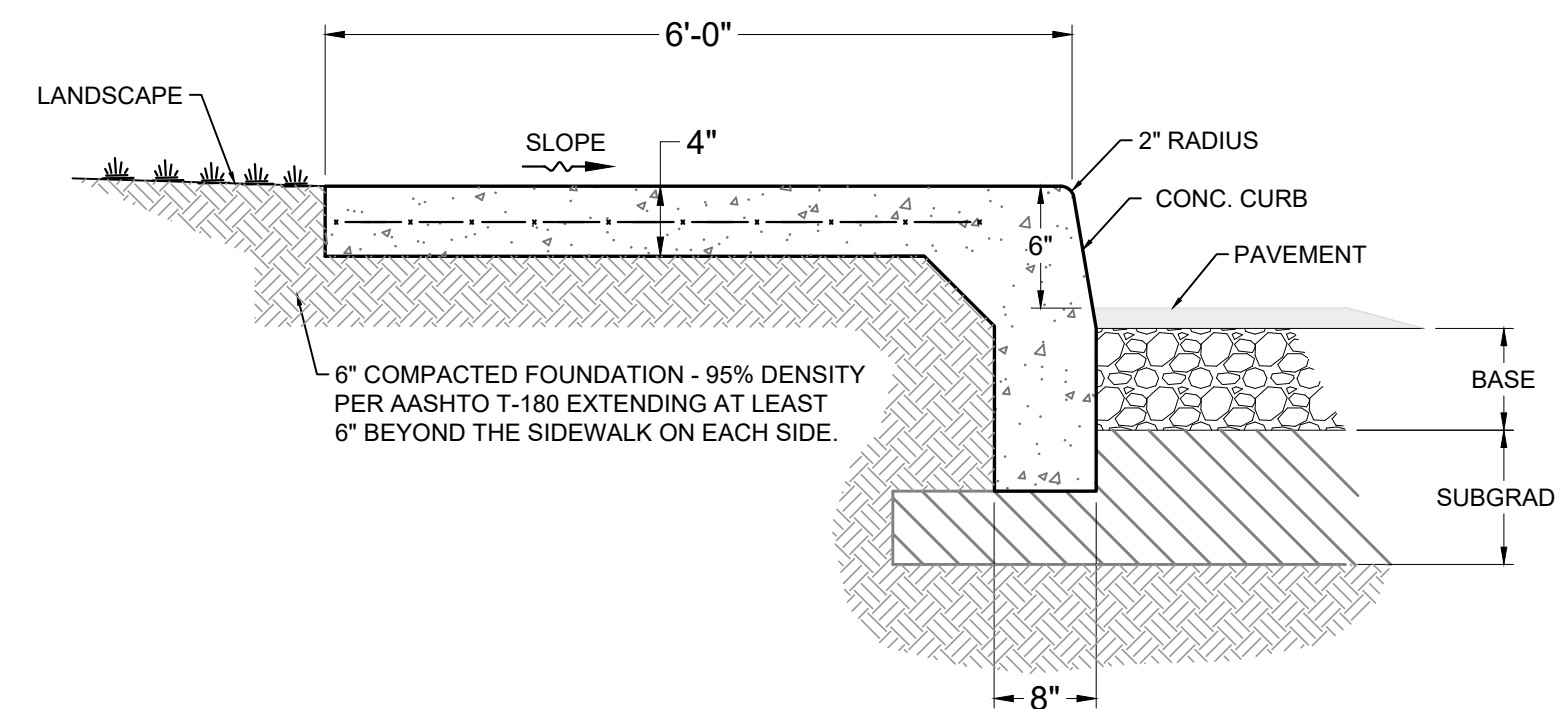
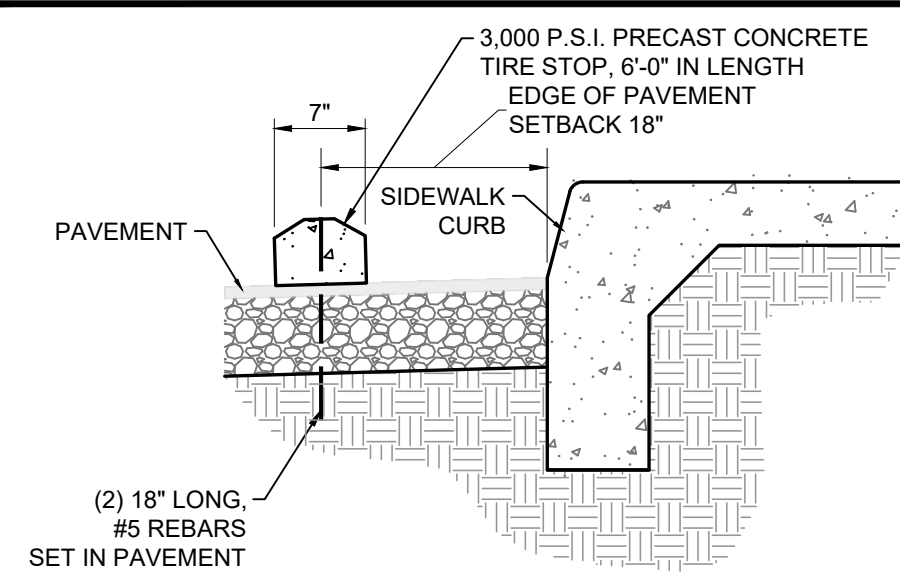
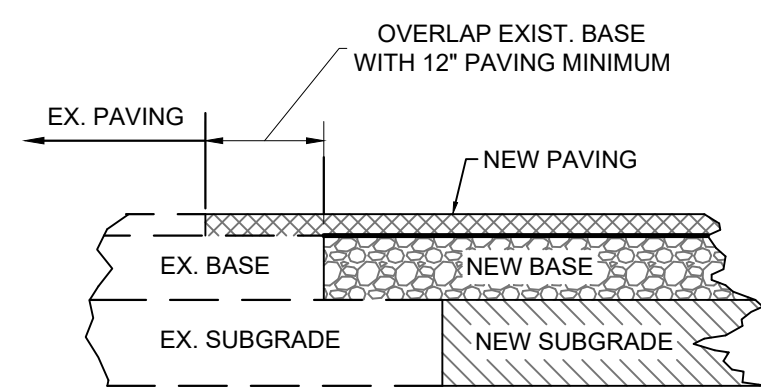
1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL MEET THE SPECIFICATIONS UNDER THE "STANDARD SPECIFICATIONS FOR THE ROAD AND BRIDGE CONSTRUCTION" BY THE FLORIDA DEPARTMENT OF TRANSPORTATION.
2. TESTING: AN INDEPENDENT TESTING FIRM SHALL BE RETAINED BY THE CONTRACTOR TO PERFORM LBR AND DENSITY TESTING BASED ON 1 TEST PER 10,000 SF (MINIMUM ONE (1) TEST).



- | | <u>STANDARD DUTY (PARKING)</u> | <u>HEAVY DUTY</u> | <u>HEAVY DUTY (58TH AVE COUNTY R/W)</u> |
|---|--|----------------------|---|
| ① | ASPHALT COURSE: 1½" SP 9.5 or SP 12.5 | 2" SP 9.5 or SP 12.5 | 1" FC 9.5 or 12.5 <u>over</u> 1½" SP 12.5 |
| ② | BASE COURSE: 6-INCHES | 8-INCHES | 8-INCHES |
| | THE BASE COURSE SHALL BE CEMENTED COQUINA ROCK (LBR 100) OR LIMEROCK AND COMPACTED TO 98 PERCENT OF ITS MODIFIED DRY PROCTOR VALUE (AASHTO T-180). BASE SHALL BE PLACED IN 6 INCH LEFTS. | | |
| ③ | STABILIZED SUBGRADE: 8-INCHES | 12-INCHES | 12-INCHES |
| | SUITABLE CLAYED SOIL HAVING A LIMEROCK BEARING RATIO (LBR) OF 40 SHOULD BE USED FOR THE STABILIZED SUBGRADE AND COMPACTED TO 98 PERCENT OF ITS MODIFIED DRY PROCTOR VALUE (AASHTO T-180). STAB. SUBGRADE SHALL BE PLACED IN 6 INCH LEFTS. | | |
| ④ | ADDITIONAL FILL SHALL CONSIST OF CLEAN GRANULAR SAND CONTAINING LESS THAN 10% MATERIAL PASSING THE U.S. STANDARD NO. 200 MESH SIEVE. ON-SITE FILL SHALL BE PLACED IN LOOSE LAYERS OF 12 INCHES AND COMPACTED TO NO LESS THAN 95 PERCENT OF ITS MODIFIED DRY PROCTOR VALUE (AASHTO T-180). IN THE IRC RIGHT-OF-WAY, ADDITIONAL FILL SHALL BE PLACED IN 6 INCH LEFTS AND COMPACTED TO A MINIMUM OF 98 PERCENT OF ITS MODIFIED DRY PROCTOR VALUE. | | |

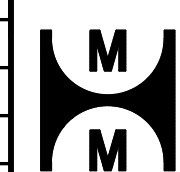
NOTES:

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL MEET THE SPECIFICATIONS UNDER THE "STANDARD SPECIFICATIONS FOR THE ROAD AND BRIDGE CONSTRUCTION" BY THE FLORIDA DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
2. TESTING: AN INDEPENDENT TESTING FIRM SHALL BE RETAINED BY THE CONTRACTOR TO PERFORM LBR AND DENSITY TESTING PER THE TESTING REQUIREMENTS BY LOCAL CODES.



CONSTRUCTION DETAILS

4	03/26/24	UPDATED FOR BIDDING	SCG/SCG
3	01/05/24	REVISED PER UCP EMAILED RAI #1 MARKUPS DATED 01/04/24	MBB/SCG
2	11/14/23	REVISED PER IRC EMAILED RAI #1 COMMENTS DATED 11/14/23	MBB/SCG
1	10/25/23	REVISED PER TRC COMMENTS DATED 10/25/23	MBB/SCG
NO.	DATE	DESCRIPTION	DR/APP
REVISIONS			



MASTELLER & MOLER, INC.
CONSULTING ENGINEERS

CERTIFICATE OF AUTHORIZATION NUMBER 4204
1655 27th STREET, SUITE 2, VERO BEACH, FLORIDA 32960
(772) 567-5300 / FAX (772) 794-1106

INDIAN RIVER COUNTY

CONSTRUCTION PLANS
VICTOR HART PARK RESTROOM &
CONCESSION BUILDING
FOR
I.R.C. PARKS & RECREATION

FLORIDA

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FOR BIDDING PURPOSES ONLY

03/26/24

SEAN C. GREEN, P.E. FL #90797

DRAWN	GEV
DESIGNED	MBB
CHECKED	SCG
DATE	02/01/23
SCALE	AS SHOWN
SHEET	9 OF 12
PROJECT NO.:	2226

1		2		3		4		5																			
<p>INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES</p> <p>TRENCH DETAIL (UNPAVED EASEMENT)</p> <p>MAY 2019</p> <p>DRAWING NO. M-1</p>		<p>NOTES:</p> <ol style="list-style-type: none">WHERE SOIL CONDITIONS CANNOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE METHOD OF CONSTRUCTION TO IRCDS FOR APPROVAL.SHEETING WILL BE REQUIRED AS DETERMINED IN THE FIELD IN ACCORDANCE WITH OSHA REGULATIONS.COMPACTION PERCENTAGES SHOWN REFER TO AASHTO T-180 MODIFIED PROCTOR METHOD.MECHANICAL COMPACTION NOT ALLOWED BELOW THIS LEVEL OTHER THAN HAND VIBRATORY MEANS.COMPACTION REPORTS REQUIRED.MINIMUM TRENCH WIDTH "W" = PIPE O.D. PLUS 2'-0".2" DETECTION TAPE WITH METALLIC BACKING TO BE INSTALLED OVER MAIN 6" BELOW BOTTOM OF BASE COURSE. TAPE TO BE MARKED "CAUTION-WATER LINE BELOW", "CAUTION-FORCE MAIN BELOW", OR "CAUTION-REUSE MAIN BELOW". TRACE WIRE SHALL BE USED CONTINUOUSLY ON ALL PIPE. SEE DRAWING, No. M-14, TRACE WIRE DETAIL.ALL RESTORATION IN EASEMENTS OR RIGHT-OF-WAYS OR WHEN REQUIRED BY OTHER JURISDICTIONAL AGENCIES SHALL CONFORM TO IRCDS SPECIFICATIONS OR THE OTHER JURISDICTIONAL AGENCY SPECIFICATION, WHICHEVER IS MORE STRINGENT.ALL PIPE TO BE LOCATED A MINIMUM OF 5' O.C. (TYPICAL) FROM EDGE OF PAVEMENT.EXCAVATABLE FLOWABLE FILL IS ALLOWED WITH PRIOR APPROVAL OF PROPOSED MATERIAL STRENGTH BY COUNTY PUBLIC WORKS ENGINEER OR DESIGNEE. <p>INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES</p> <p>TRENCH DETAIL NOTES</p> <p>MAY 2019</p> <p>DRAWING NO. M-1 A</p>		<p>INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES</p> <p>TRENCH DETAIL (PAVED AREAS & SHOULDERS)</p> <p>MAY 2019</p> <p>DRAWING NO. M-2</p>		<p>INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES</p> <p>TAPPING SLEEVE AND VALVE ASSEMBLY</p> <p>MAY 2019</p> <p>DRAWING NO. M-5</p>		<p>INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES</p> <p>VALVE AND BOX DETAIL</p> <p>MAY 2019</p> <p>DRAWING NO. M-6</p>																			
<p>NOTES:</p> <ol style="list-style-type: none">VALVE BOXES SHALL BE CONSTRUCTED PER MANUFACTURERS' SPECIFICATION.ALL VALVE BOXES SHALL BE SHAFT/SCREW TYPE AND CANNOT REST ON THE VALVE.ALL VALVE BOLTS SHALL BE STAINLESS STEEL WITH BRASS NUTS.VALVE MARKERS ARE TO BE INSTALLED ADJACENT TO ALL VALVES IN UNPAVED AREAS AS DIRECTED BY IRCDS. (SEE DRAWING, No. M-10, VALVE MARKER)ALL VALVES REQUIRE STATE PLANE COORDINATES.TRACE WIRE IS REQUIRED. (SEE DRAWING, No. M-14, TRACE WIRE DETAILS)BLUE REFLECTIVE MARKERS (RPM'S) ARE TO BE LOCATED IN MID-LANE OF ROADWAY FOR ALL HYDRANT VALVES. (SEE DRAWING, No. W-1, FIRE HYDRANTS & VALVE LOCATIONS)REFLECTIVE MARKERS SHALL NOT BE PLACED IN BIKE LANES.VALVE BOX LID LOCATED IN PAVEMENT SHALL BE A MINIMUM 24 LBS. WITH A MINIMUM 6" LONG THROAT.VALVE BOX SHALL COMPLY WITH FDOT STANDARDS AS APPLICABLE.VALVE EXTENSIONS OVER 36" REQUIRE IRCDS ENGINEERING APPROVAL.VALVE SPACING ON WATER MAINS SHALL NOT EXCEED 1,000' MAXIMUM. <p>INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES</p> <p>VALVE AND BOX DETAIL NOTES</p> <p>MAY 2019</p> <p>DRAWING NO. M-6 A</p>		<p>INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES</p> <p>VALVE BOX PAD</p> <p>MAY 2019</p> <p>DRAWING NO. M-7</p>		<p>INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES</p> <p>VALVE MARKER</p> <p>MAY 2019</p> <p>DRAWING NO. M-10</p>		<p>INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES</p> <p>TRACE WIRE DETAILS</p> <p>MAY 2019</p> <p>DRAWING NO. M-14</p>		<p>GENERAL NOTES</p> <ol style="list-style-type: none">ALL AS-BUILT RECORD DRAWINGS SHALL MEET THE MINIMUM REQUIREMENTS OF THE CHAPTER AJ-17, FLORIDA ADMINISTRATION CODE PURSUANT TO SECTION 472 OF THE FLORIDA STATUTES.ALL AS-BUILT RECORD DRAWINGS SHALL BE IN STATE PLANE COORDINATES. STATE PLANE COORDINATES SHALL BE BASED ON THE FLORIDA STATE PLANE HORIZONTAL DATA (EAST ZONE), OR FLORIDA HIGH PRECISION GEODETIC NETWORK (SUPERSTATION) AND NAD 83/1999 - FINAL ADJUSTMENT, OR THE MOST CURRENT DATUM ADOPTED BY INDIAN RIVER COUNTY.FLORIDA STATE PLANE HORIZONTAL DATA AND STATION OFF-SET SHALL BE TIED TO VALVES, METERS, FITTINGS, MANHOLES, BLOW-OFFS, WATER SERVICES, FIRE HYDRANTS, SERVICE SADDLES, CORP STOPS AND PIPE (PIPE AT 200' INTERVALS).ALL ELEVATIONS SHOWN SHALL BE BASED ON 1988 NAVD (NORTH AMERICAN VERTICAL DATUM).ALL AS-BUILT RECORD DRAWINGS SHALL BE TIED TO A MINIMUM OF ONE (1) PERMANENT REFERENCE MONUMENT (P.R.M.) AT THE END OF EACH PROJECT. ONE P.R.M. SHALL BE TIED TO A MINIMUM OF ONE (1) SECTION CORNER OR ONE-QUARTER (1/4) SECTION CORNER WHICHEVER IS CLOSEST TO THE PROJECT. STATE PLANE COORDINATES SHALL BE PHYSICALLY SHOWN ON THE DRAWING NEXT TO THE P.R.M. USED.HORIZONTAL CONTROL MONUMENTATION FOR UTILITY LINES SHALL BE A MINIMUM OF TWO (2) POINTS AT A MAXIMUM OF 1,400 FEET BETWEEN POINTS AND SHOWN ON ALL PLANS.VERTICAL CONTROL (WHEN REQUIRED) FOR LINEAR UTILITY LINES, SUCH AS WATER AND SEWER, SHALL HAVE A MAXIMUM OF 1,100 FEET BETWEEN EXISTING CONSTRUCTION OR ESTABLISHED BENCHMARKS. <p>NOTE: PRIOR TO SUBMITTING THE ELECTRONIC COPY, ONE (1) COPY OF EACH AS-BUILT SHALL BE SUBMITTED FOR REVIEW AND APPROVAL</p> <table><tr><th>AUTOCAD LAYER NAME</th><th>DATA TO BE CONTAINED IN LAYER</th></tr><tr><td>WATER MAIN</td><td>WATER MAIN ONLY</td></tr><tr><td>WATER FITTINGS</td><td>WATER FITTINGS, METERS, VALVES, SERVICES LATERALS, ETC.</td></tr><tr><td>GRAVITY SEWER</td><td>GRAVITY SEWER MAIN ONLY</td></tr><tr><td>SEWER FORCE MAINS</td><td>SEWER FORCE MAIN ONLY</td></tr><tr><td>SEWER FITTINGS</td><td>SEWER FITTINGS, MANHOLES, SERVICE LATERALS, VALVES, ETC.</td></tr><tr><td>R/O CONCENTRATE</td><td>MAINS, FITTINGS, VALVES, ETC.</td></tr><tr><td>RECLAIMED WATER</td><td>MAINS, FITTINGS, VALVES, ETC.</td></tr></table> <p>INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES</p> <p>AS-BUILT RECORD DRAWING GENERAL NOTES</p> <p>MAY 2019</p> <p>DRAWING NO. M-16</p>		AUTOCAD LAYER NAME	DATA TO BE CONTAINED IN LAYER	WATER MAIN	WATER MAIN ONLY	WATER FITTINGS	WATER FITTINGS, METERS, VALVES, SERVICES LATERALS, ETC.	GRAVITY SEWER	GRAVITY SEWER MAIN ONLY	SEWER FORCE MAINS	SEWER FORCE MAIN ONLY	SEWER FITTINGS	SEWER FITTINGS, MANHOLES, SERVICE LATERALS, VALVES, ETC.	R/O CONCENTRATE	MAINS, FITTINGS, VALVES, ETC.	RECLAIMED WATER	MAINS, FITTINGS, VALVES, ETC.		
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RECLAIMED WATER	MAINS, FITTINGS, VALVES, ETC.																										
<p>REVISIONS</p> <table><tr><th>NO.</th><th>DATE</th><th>DESCRIPTION</th><th>DR/APP</th></tr><tr><td>4</td><td>03/26/24</td><td>UPDATED FOR BIDDING</td><td>SCG/SCG</td></tr><tr><td>3</td><td>01/05/24</td><td>REVISED PER UCP EMAILED RAI #1 MARKUPS DATED 01/04/24</td><td>MBB/SCG</td></tr><tr><td>2</td><td>11/14/23</td><td>REVISED PER IRC EMAILED RAI #1 COMMENTS DATED 11/14/23</td><td>MBB/SCG</td></tr><tr><td>1</td><td>10/25/23</td><td>REVISED PER TRC COMMENTS DATED 10/25/23</td><td>MBB/SCG</td></tr></table>		NO.	DATE	DESCRIPTION	DR/APP	4	03/26/24	UPDATED FOR BIDDING	SCG/SCG	3	01/05/24	REVISED PER UCP EMAILED RAI #1 MARKUPS DATED 01/04/24	MBB/SCG	2	11/14/23	REVISED PER IRC EMAILED RAI #1 COMMENTS DATED 11/14/23	MBB/SCG	1	10/25/23	REVISED PER TRC COMMENTS DATED 10/25/23	MBB/SCG	<p>MASTELLER & MOLER, INC. CONSULTING ENGINEERS</p> <p>CERTIFICATE OF AUTHORIZATION NUMBER 4204 1655 27th STREET, SUITE 2, VERO BEACH, FLORIDA 32960 (772) 567-5300 / FAX (772) 794-1106</p>		<p>CONSTRUCTION PLANS VICTOR HART PARK RESTROOM & CONCESSION BUILDING FOR I.R.C. PARKS & RECREATION</p> <p>INDIAN RIVER COUNTY</p> <p>FLORIDA</p>		<p>FOR BIDDING PURPOSES ONLY</p> <p>03/26/24</p> <p>SEAN C. GREEN, P.E. FL #90797</p> <p>DRAWN: GEV DESIGNED: MBB CHECKED: SCG DATE: 02/01/23 SCALE: NTS SHEET 10 OF 12 PROJECT NO.: 2226</p>	
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1

INFO REQUIRED FOR SERVICE SADDLE AND CORP STOP

STATE PLANE COORDINATE AND STATION OFFSET REQUIRED FOR ALL VALVES, METERS, FITTINGS, MANHOLES, BLOW-OFFS, WATER SERVICES, FIRE HYDRANTS, SERVICE SADDLES, CORP STOPS AND PIPE AT 100' INTERVALS

NEW UTILITY LINE SHOWN WITH WIDER, SOLID LINE

AS-BUILT RECORD DRAWING 88

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

AS-BUILT RECORD DRAWING (EXAMPLE)

M-15

DRAWING NO.

This represents the basic style and format for As-Built Record Drawings to be received by the Indian River County Department of Utility Services. Refer to drawings M-16 and M-17 for the minimum information requirements to be provided by the engineer of record to IRCUDS.

2

GENERAL NOTES

(continued)

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

AS-BUILT RECORD DRAWING GENERAL NOTES

CONTINUED

MAY 2019

DRAWING NO. M-16 A

3

TEST PORT

PLAN VIEW

REDUCED PRESSURE BACKFLOW PREVENTER (RPZ) WITH RISING STEM GATE VALVES

TEST PORT

ELEVATION

NOTES:

1. ALL BUILDINGS WITH FIRE SPRINKLER SYSTEMS INCLUDING COMMERCIAL, SINGLE FAMILY RESIDENTIAL, AND MULTI-FAMILY ARE REQUIRED TO INSTALL A DOUBLE CHECK BACKFLOW PREVENTER WITH A REDUCED PRESSURE ZONE (RPZ) FEATURE AS DETERMINED BY IRCUDS.

2. ALL FASTENERS SHALL BE 316 STAINLESS STEEL (OR APPROVED EQUAL).

3. APPROVED EQUALS HAVING FULL UL/USC, AND AWWA CERTIFICATIONS MAY BE INSTALLED ONLY AFTER SPECIFIC APPROVAL BY IRCUDS.

4. SUPPORT BACKFLOW PREVENTER FROM WALL, IF REQUIRED, WITH APPROVED PIPE SUPPORT SYSTEM. PIPE SUPPORT SYSTEM SHALL BE BRASS, COPPER OR D.I.P., AS APPROVED BY IRCUDS.

5. PIPING 2 1/2" Ø OR GREATER SHALL BE FLANGED DUCTILE IRON PIPE.

6. ALL MATERIALS ARE TO BE PER IRCUDS APPROVED MANUFACTURERS' PRODUCT LIST.

7. RPZ'S SHALL BE INSPECTED, CERTIFIED AND REPORTED ON AN ANNUAL BASIS IN ACCORDANCE WITH THE INDIAN RIVER COUNTY CONNECTION CONTROL PROGRAM REQUIREMENTS.

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

REDUCED PRESSURE BACKFLOW PREVENTER RPZ

MAY 2019

DRAWING NO. W-11

4

CLEAN OUT

PROPERTY LINE

RIGHT-OF-WAY

12" (MIN)

SIDEWALK

ETCH CURB WITH "S" FOR SEWER LATERALS

COMMON PROPERTY LINE

INSTALL PLUG FLUSH WITH FINISH GRADE

FINISHED GRADE

4" RISER

24"-36"

4" RISER

INSTALL PLUG (6" CLEAN OUT)

45° BENDS FOR RISER PIPE (TYPICAL)

PLUMBING CONTRACTOR RESPONSIBLE FOR RISER AND CLEANOUT

CUSTOMER RESPONSIBILITY

IRCDUS RESPONSIBILITY

IRCDUS RESPONSIBILITY

STANDARD 6"x4" WYE (TYP)

MARKER BALL TAPED TO 6"x4" WYE (TYP)

ELEVATION

SEE DRAWING, No. S-3A, SEWER LATERAL NOTES

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

SEWER LATERAL RISER (DETAILS)

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

STANDARD LATERAL NOTES

MAY 2019

DRAWING NO. S-3 A

5

NOTES:

1. ALL SEWER LATERALS (SINGLE OR DOUBLE) SHALL HAVE A RISER PIPE WITH BENDS AS REQUIRED FOR SERVICE CONNECTIONS AND WITH A 4"Ø CLEANOUT AT GRADE.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR RISER PIPE WITH BEND FOR SERVICE CONNECTION AND FOR SETTING 4"Ø SEWER CLEANOUT TO FINISH GRADE PRIOR TO CONNECTION.

3. SANITARY SEWER LATERAL LATERALS SHALL BE A MINIMUM OF 6" IN DIAMETER.

4. GRAVEL (3/4") BEDDING SHALL BE USED FOR EXCAVATION ON ROCK. SAND BEDDING SHALL BE USED FOR EXCAVATION IN SAND. (SEE DRAWING, No. S-2, MODIFIED SEWER LATERAL, DEEP SEWER.)

5. GRAVEL (3/4") BED SHALL CONTINUE UNDER AND PARALLEL TO SEWER LATERAL PIPE INTO UNDISTURBED SOIL AT THE PROPERTY LINE. (SEE DRAWING, No. S-2, MODIFIED SEWER LATERAL, DEEP SEWER.)

6. FOR RISERS AND CLEANOUTS SEE DRAWING, No. S-3, SEWER LATER RISER.

7. FOR CUTTING IN SEWER LATERAL CLEANOUT TO FINISH GRADE SEE DRAWING, No S-3, SEWER LATER RISER.

8. RISERS AND CLEANOUT SHALL NOT BE CONSTRUCTED WITHIN 12" OF SIDEWALK.

9. MAGNETIC DETECTION TAPE SHALL BE INSTALLED OVER TOP OF ALL SEWER MAINS AND SERVICE LATERALS.

10. ELECTRONIC MARKER BALLS, 4"Ø, SHALL BE TAPED TO 6"x4" WYE, 24" BELOW FINISHED GRADE.

11. ALL MATERIALS ARE TO BE PER IRCUDS APPROVED MANUFACTURERS' PRODUCT LIST.

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

CONSTRUCTION PLANS VICTOR HART PARK RESTROOM & CONCESSION BUILDING FOR I.R.C. PARKS & RECREATION

FLORIDA

NO.

DATE

DESCRIPTION

DR/APP

4

03/26/24

UPDATED FOR BIDDING

SCG/SCG

3

01/05/24

REVISED PER UCP EMAILED RAI #1 MARKUPS DATED 01/04/24

MBB/SCG

2

11/14/23

REVISED PER IRC EMAILED RAI #1 COMMENTS DATED 11/14/23

MBB/SCG

1

10/25/23

REVISED PER TRC COMMENTS DATED 10/25/23

MBB/SCG

REVISIONS

M

M

MASTELLER & MOLER, INC.

CONSULTING ENGINEERS

CERTIFICATE OF AUTHORIZATION NUMBER 4204

1655 27th STREET, SUITE 2, VERO BEACH, FLORIDA 32960

(772) 567-5300 / FAX (772) 794-1106

INDIAN RIVER COUNTY

CONSTRUCTION PLANS VICTOR HART PARK RESTROOM & CONCESSION BUILDING FOR I.R.C. PARKS & RECREATION

FLORIDA

FOR BIDDING PURPOSES ONLY

03/26/24

SEAN C. GREEN, P.E. FL #90797

DRAWN

CEV

DESIGNED

MBB

CHECKED

SCG

DATE

02/01/23

SCALE

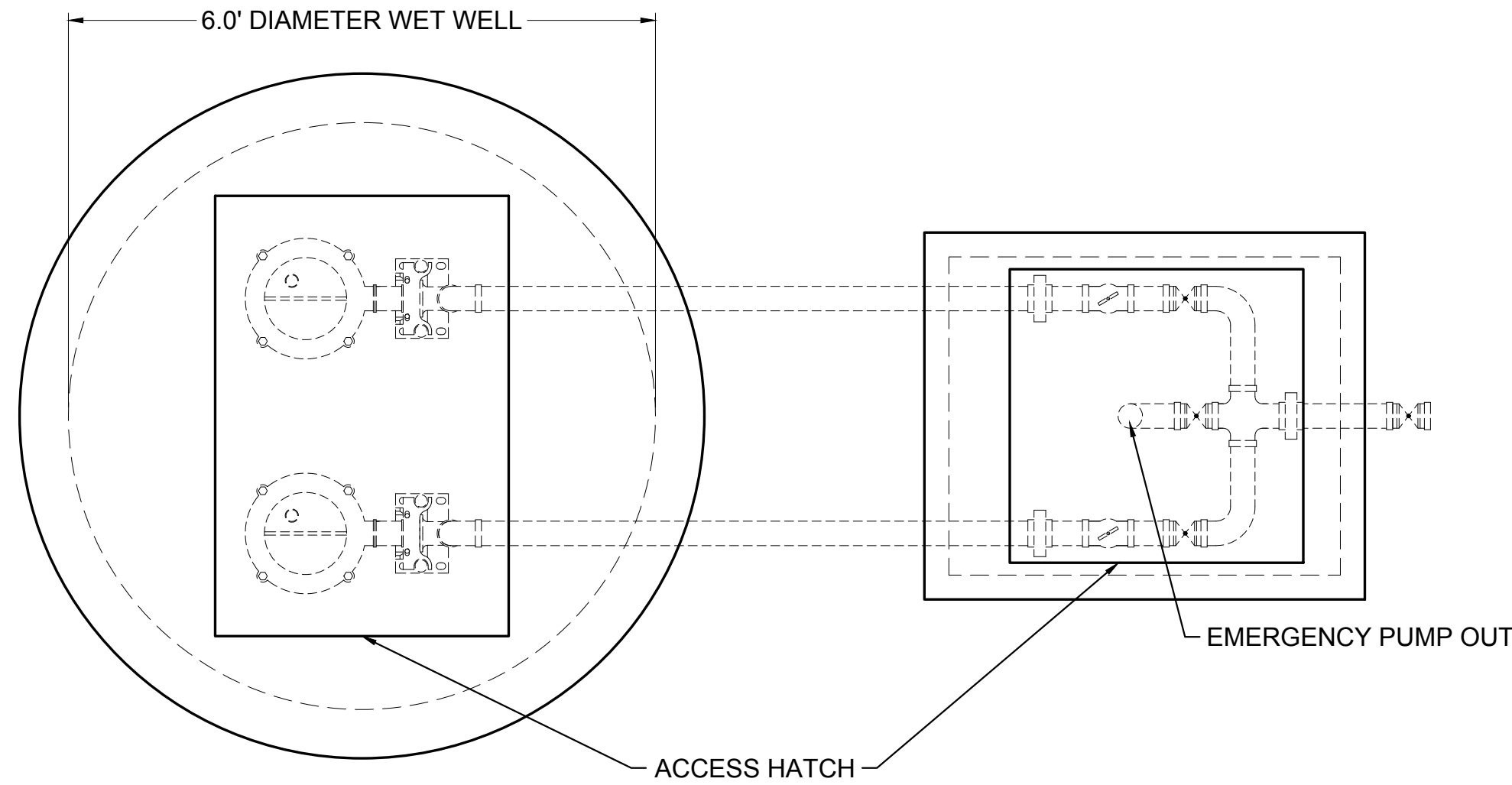
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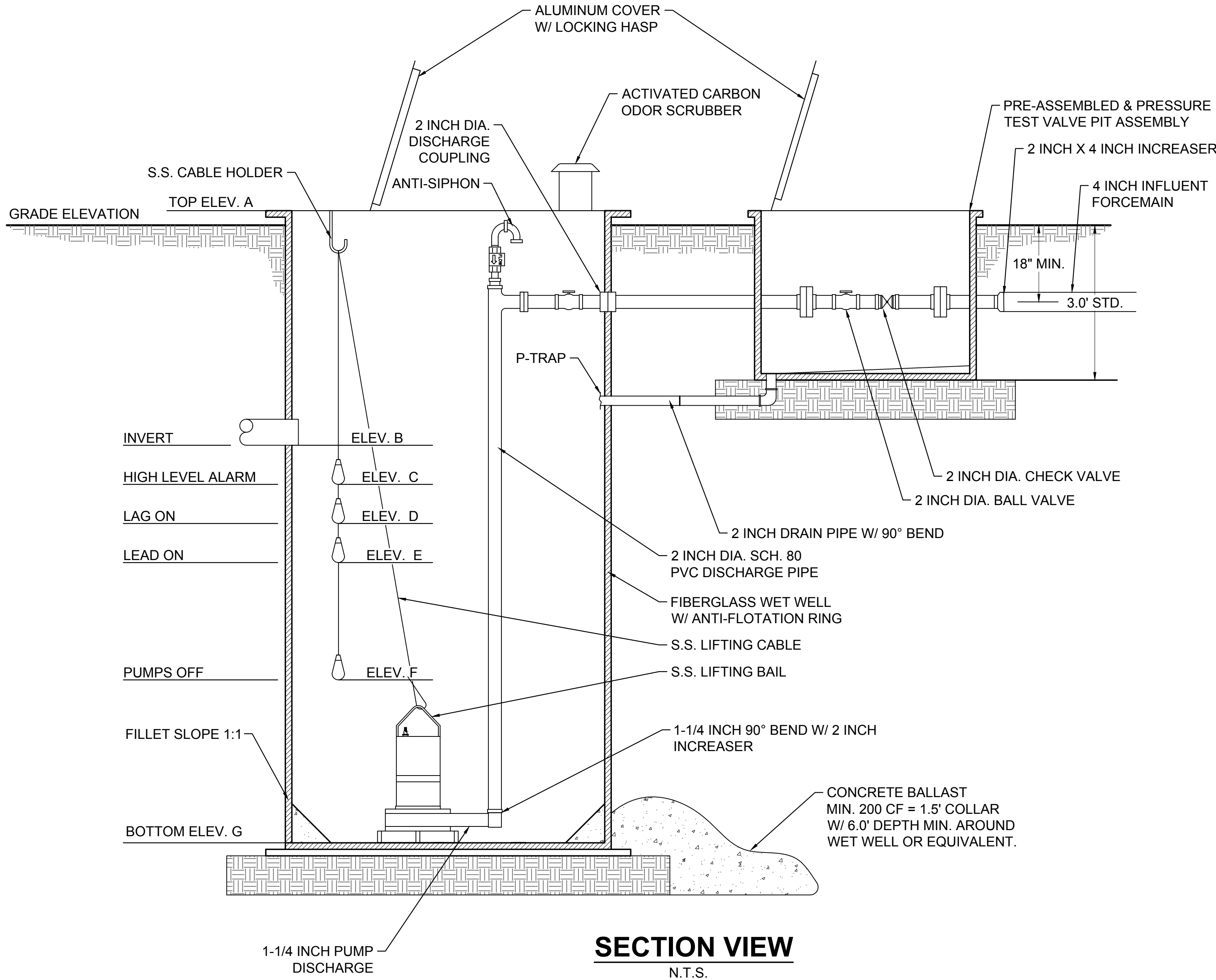
11 OF 12

PROJECT NO.

2226



PLAN VIEW
N.T.S.



SECTION VIEW
N.T.S.

PUMP PERFORMANCE DATA			
LIFT STATION NUMBER		1	
PRIMARY CONDITION	PUMPING CAPACITY	G.P.M.	86
	TOTAL HEAD (±)	FEET	54
SECONDARY CONDITION	PUMPING CAPACITY	G.P.M.	74
	TOTAL HEAD (±)	FEET	74
MIN. SOLIDS PASS. IMPELLER		INCHES	GRINDER
PUMP MODEL NUMBER		NO.	PIR PE1 60 HZ
PUMP IMPELLER		INCHES	5.87
PUMP SPEED (DESIGN)		R.P.M.	3538
VOLTAGE:	200-208 1 PHASE	230 -240 <OR>	460-480 3 PHASE
MOTOR NAMEPLATE H.P.		H.P.	5.36
MAX. PUMP BRAKE H.P.		H.P.	-
MAX. NPSHR @ SECONDARY		FEET	-
MAX. MOTOR SPEED		R.P.M.	-
AVG. INFLUENT FLOW		G.P.M.	16.95
MIN. PUMP CYCLE TIME		MINS.	15.08
PUMP MANUFACTURER		SULZER	

CRITICAL DIMENSIONS & ELEVATIONS	
ADJACENT BASE FLOOD ELEV.	21.95
GRADE ELEV.	23.30
TOP OF WET WELL ELEV.	ELEV."A" 23.45
INFLUENT PIPE INV. ELEV.	ELEV."B" 18.00
ALARM SIGNAL ON ELEV.	ELEV."C" 17.50
LAG PUMP ON ELEV.	ELEV."D" 17.00
LEAD PUMP ON ELEV. (+)	ELEV."E" 16.50
PUMPS OFF ELEVATION	ELEV."F" 15.50
BOTTOM OF WET WELL	ELEV."G" 13.45
INSIDE DIAMETER OF WET-WELL	6.00'
OUTSIDE DIA. OF ANTI-FLOATATION RING	6.67'
MINIMUM CUBIC FEET OF CONCRETE BALLAST (CU FT)	200
INVERT PIPE DIAMETER	4"
FORCE MAIN DIAMETER	4"

PRE-ASSEMBLED & PRESSURE TESTED VALVE PIT ASSEMBLY*

- ASSEMBLED VALVE PIT ASSEMBLY SHALL BE PRESSURE TESTED @100 PSIG FOR MINIMUM 15 MINUTES WITH ZERO LOSS (TEST AGAINST CHECK VALVES AND CLOSED DISCHARGE).
- CHECK VALVES AND ISOLATION VALVES ARE PROVIDED FOR EACH PUMP PER RSWF 42.5 AND FDEP PERMIT ITEM 50.
- VALVE PIT SHALL HAVE ENCLOSED BOTTOM WITH SLOPED FLOOR AND DRAIN LINE RETURNING TO THE WET WELL (COMPLETE WITH P-TRAP ASSEMBLY) PER RSWF 44.33 AND FDEP PERMIT ITEM 70.
- BY-PASS PUMP CONNECTION IS PROVIDED PER FAC 62-604.400(2)(a)(3).
- COVER MUST INCLUDE TAMPER RESISTANT HARDWARE AND PADLOCK.

PUMP STATION GENERAL NOTES		
1. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS AGAINST FLOATATION OF WET WELL UNTIL ALL BACKFILL IS IN PLACE.		
2. ALL CONCRETE SHALL BE CLASS A-A 4,000 PSI FOR PRECAST AND 3,000 PSI FOR CAST-IN-PLACE UNLESS OTHERWISE SPECIFIED.		
3. REINFORCING STEEL SHALL BE GRADE 60 FABRICATED AND PLACED IN AGGORDANCE WITH A308 CODE SPACES AND SHALL BE SIX (6) TIMES THE BAR DIAMETER NUMBER SIZE OR 10" MINIMUM UNLESS OTHERWISE NOTED (FAC 62-604.400(2)(a)(3)).		
4. ALL BACKFILL AROUND THE PUMP STATION SITE SHALL BE COMPACTED @ 98% OF MAXIMUM DENSITY PER AASHTO-T-180.		
5. CHAMFER EXPOSED CONCRETE EDGES 1/4" (TYP).		
6. WETWELL WALL SHALL CONTAIN A MINIMUM OF .002 SQ IN LINEAR FOOT REINFORCEMENT, EACH WAY, TOP TO BOTTOM.		
7. ALL PUMPING AT THE PUMP STATION SITE SHALL BE RESTRAINED.		
8. ALL PUMPS AND PUMPING EQUIPMENT - SEE IRCDSU APPROVED MANUFACTURERS' PRODUCT LIST.		
9. STAINLESS STEEL (316) CABLE HOLDER SHALL BE LOCATED ON OPPOSITE SIDE OF WETWELL FROM THE INFLUENT PIPE.		
10. BUOYANCY CALCULATIONS SHALL BE REQUIRED FOR ALL PUMP STATIONS ALONG WITH THE REQUIRED PUMP STATION CALCULATIONS.		
11. NO UN-FLANGE PIPE CONNECTIONS ALLOWED.		
12. MAINTAIN MINIMUM OF 6" BETWEEN ANY PIPING, FITTINGS ETC. AND PRECAST CONCRETE.		
13. FIBERGLASS LINERS SHALL BE INSTALLED ON ALL PUMP STATION WETWELLS AND MANHOLES RECEIVING PUMPED SEWAGE, PLUS 2 MANHOLES IN EACH DIRECTION.		
14. ALL NEW MANHOLES SHALL BE COATED PER IRCDSU APPROVED MANUFACTURERS' PRODUCT LIST.		
15. PUMP STATION CONTROL PANEL SHALL BE PROVIDED WITH APPROPRIATE LIGHTNING ARRESTOR. VERIFY ALL DRIVEN GROUNDING GRIDS PER N.E.C. 250.56 AND SCADA (LATEST STANDARDS).		
16. AN ACCESS DRIVE SHALL BE PROVIDED TO ALL IRCDSU MAINTAINED LIFT STATIONS. ALL ACCESS DRIVES SHALL BE A MINIMUM OF 12" WIDE, 48" LONG. IF FENCE IS INSTALLED, SWING GATE SHALL HAVE A 12" OPENING.		
17. ALL PROPOSED PRIVATE STATION OWNERS ARE TO SIGN AN AGREEMENT ACKNOWLEDGING STATION IS TO REMAIN PRIVATE UNLESS SUBJECT STATION IS CONSTRUCTED TO IRCDSU STANDARDS.		
18. PUMPS SHALL BE DESIGNED TO PROVIDE A MINIMUM PUMP RUN TIME EQUAL TO HALF THE CYCLE TIME.		
19. PUMPS SHALL BE DESIGNED TO PROVIDE A MAXIMUM CLEARANCE OF TEN FEET OUTSIDE OF LIFT STATION WETWELL FOR FUTURE MAINTENANCE.		
20. ALL NEW PUMP STATIONS SHALL HAVE BIO-GAS/ODOR CONTROL SYSTEMS AS REQUIRED BY MANUFACTURER, AND APPROVED BY IRCDSU.		
21. LIFT STATION IS TO BE LOCATED IN A DEDICATED UTILITY EASEMENT, 50' AWAY FROM HOMES, CIVIL BE-DAGS AND SURFACE BODY WATER.		
22. A SAFETY GRATE WITH STAINLESS STEEL (316) HARDWARE IS REQUIRED FOR ALL WETWELLS.		
REFER TO SPECIFICATIONS SECTION 10 SUBMERSIBLE WASTEWATER PUMPING STATION		
INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES	PUMPING STATION GENERAL NOTES TYPICAL WASTEWATER PUMPING STATION MAY 2019	DRAWING NO. S-19

PUMP STATION GENERAL NOTES (CONTINUED)		
23. CONTRACTOR TO INSTALL PERMANENT SIGNAGE WITH CONTACT INFORMATION AND PHONE NUMBER AT ALL IRCDSU AND PRIVATE LIFT STATIONS. CONTRACTOR TO PROVIDE SECURITY FOR PRIVATE LIFT STATIONS PER IRCDSU PLANS REVIEW. SECURITY TO INCLUDE, BUT NOT LIMITED TO, LOCKABLE HATCH COVER LIDS FOR THE WETWELL AND VALVE PIT.		
24. CONTRACTOR TO CONTACT IRCDSU INSPECTOR PRIOR TO PUMP STATION CONSTRUCTION.		
25. SEE TYPICAL WASTEWATER PUMPING STATION DRAWINGS, S-14 & S-14A PLAN VIEW AND DRAWINGS, S-15 & S-15A CROSS SECTION FOR GENERAL LAYOUT OF WETWELL AND VALVE VAULT. SEE DRAWING S-16, S-16A AND S16B FOR TYPICAL PUMPING STATION SITE PLAN GENERAL LAYOUT. SEE DRAWINGS S-17, S-18, S-18A, S-19 AND S-19A FOR ELECTRICAL DETAILS.		
26. STRUCTURE DIMENSIONS MAY VARY UPON APPROVAL BY THE IRCDSU DUE TO BUOYANCY COMPENSATION OR OTHER REQUIREMENTS.		
27. GATE VALVE TO BE LOCATED AT FORCE MAIN JUNCTION.		
28. STAINLESS STEEL (316) LIFTING BAILS SHALL BE USED FOR PUMPS IN LIFT STATIONS.		
29. GRINDER PUMPS SHALL BE A MAXIMUM OF 5.0 HP UNLESS OTHERWISE APPROVED BY IRCDSU.		
30. ELECTRICAL CONTROL PANEL (NEMA 4X POWDER COATED 316 STAINLESS STEEL) SHALL CONFORM TO PUMP MANUFACTURERS' & SCADA SYSTEM REQUIREMENTS.		
31. ALL WET WELLS SHALL BE LINED. SEE SPECIFICATIONS SECTION 10.		
32. ALL WET WELLS 15" DEEP OR GREATER THAN 10" DIAMETER MUST BE APPROVED BY IRCDSU ENGINEERING.		
33. OUTSIDE WALLS AND UNDERSIDE OF WETWELL TOP SLAB AND VALVE BOX SHALL BE PAINTED WITH (2) TWO COATS OF WATER BASE EPOXY.		
34. ALL HARDWARE TO BE 316 STAINLESS STEEL.		
35. PUMP STATION POWER SUPPLY FROM FLORIDA POWER & LIGHT ELECTRIC POWER POLE OR TRANSFORMER TO THE PUMP STATION ELECTRIC PANEL SHALL BE INCLUDED ON THE RECORD DRAWING.		
36. PAINT OUTSIDE OF WALLS, UNDERSIDE OF WETWELL TOP SLAB AND VALVE VAULT WITH TWO COATS OF WATER BASE EPOXY.		
REFER TO SPECIFICATIONS SECTION 10 SUBMERSIBLE WASTEWATER PUMPING STATION		
INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES	PUMPING STATION GENERAL NOTES TYPICAL WASTEWATER PUMPING STATION MAY 2019	DRAWING NO. S-19 A

PRIVATE LIFT STATION DETAILS

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VICTOR HART PARK RESTROOM BUILDING

4715 43rd Avenue
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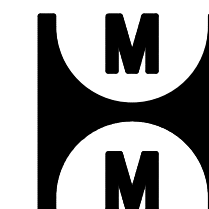
ARCHITECTURAL

ACC	ACCESSIBILITY DETAILS
A-1	FLOOR PLAN/ELEVATIONS
A-2	SECTION/DETAILS
S-1	STRUCTURAL PLANS
S-2	STRUCTURAL PLANS
MEP-1	MECHANICAL/ELECTRICAL/PLUMBING PLANS

ARCHITECT



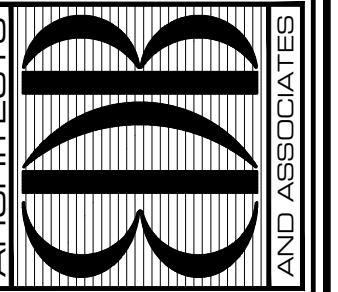
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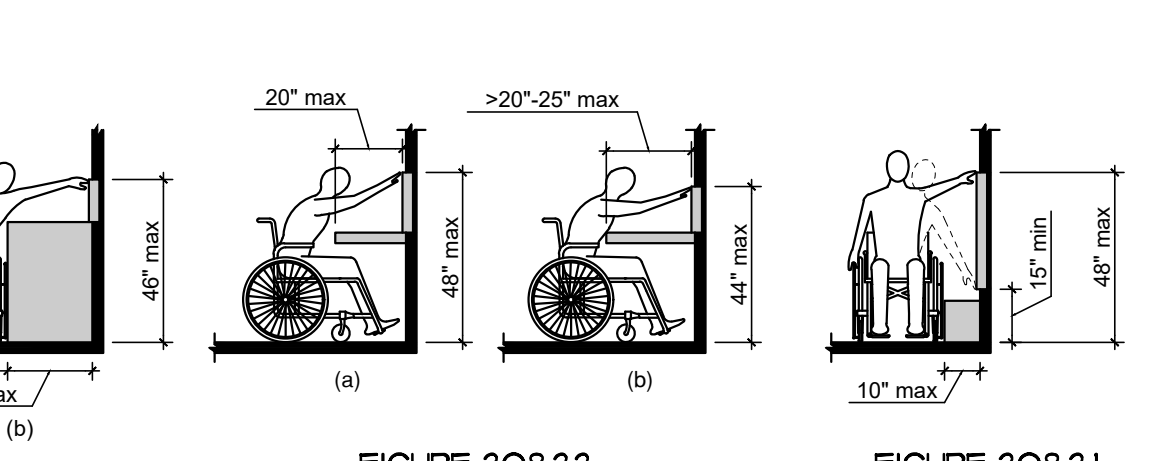
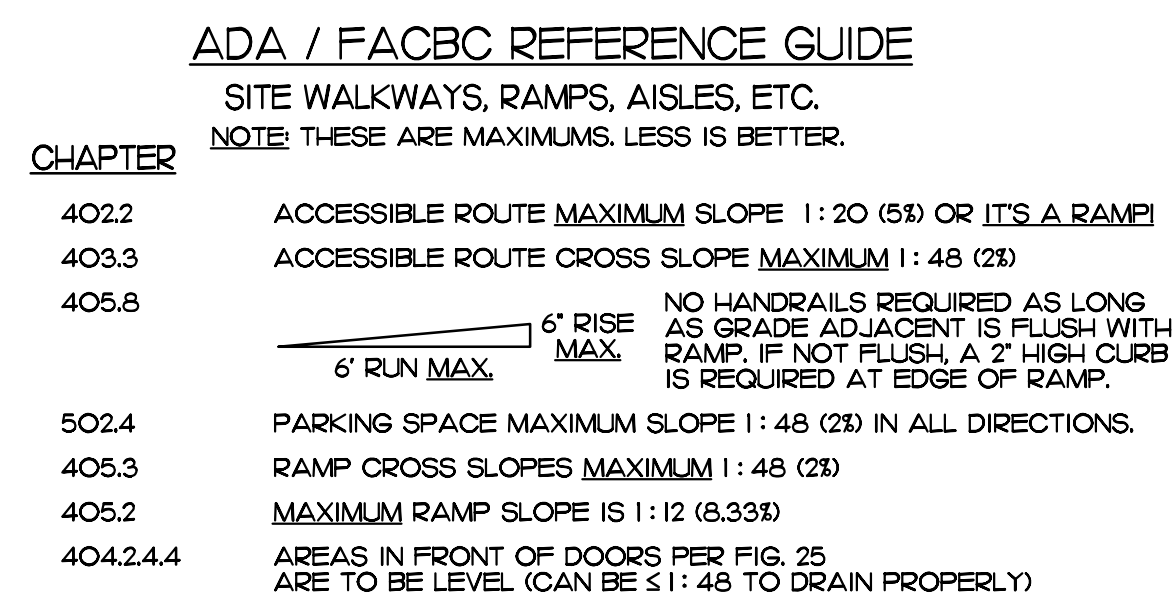
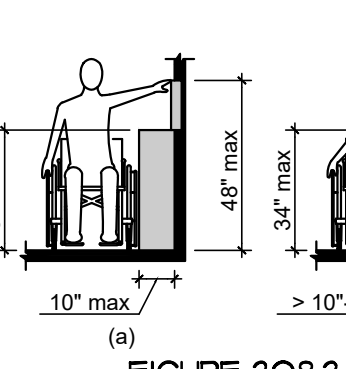
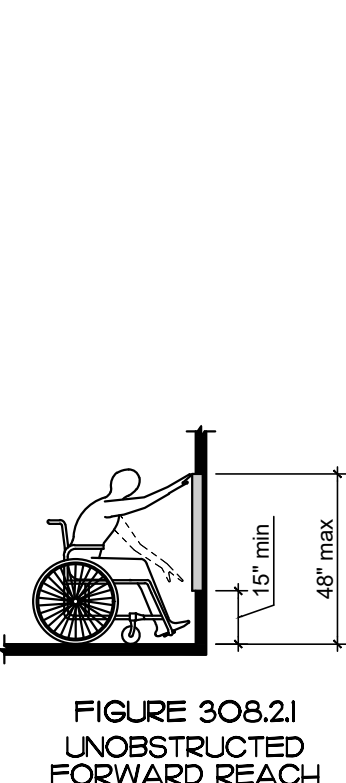
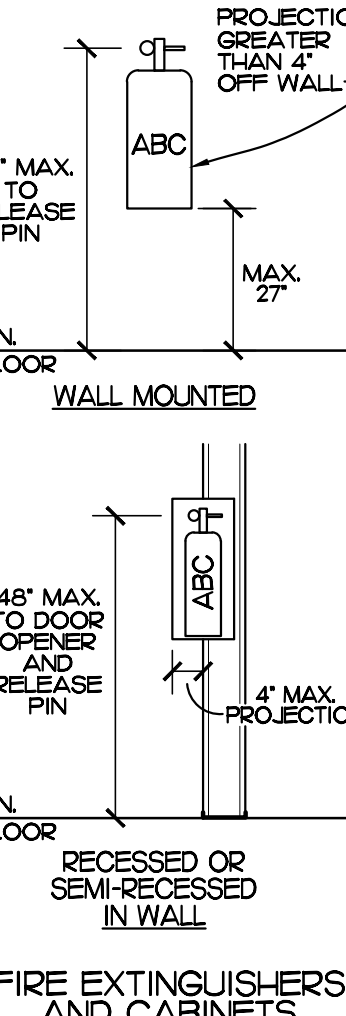
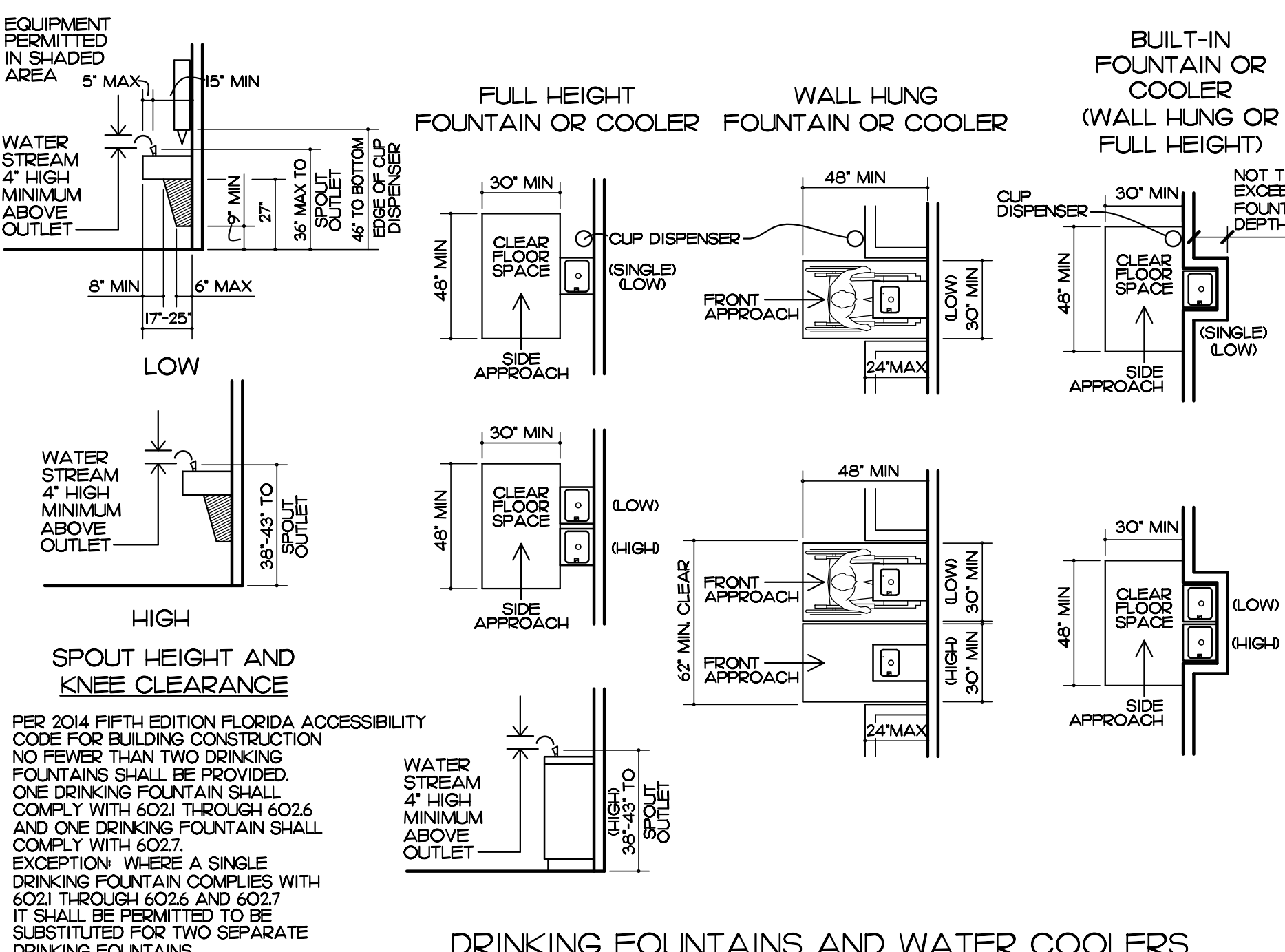
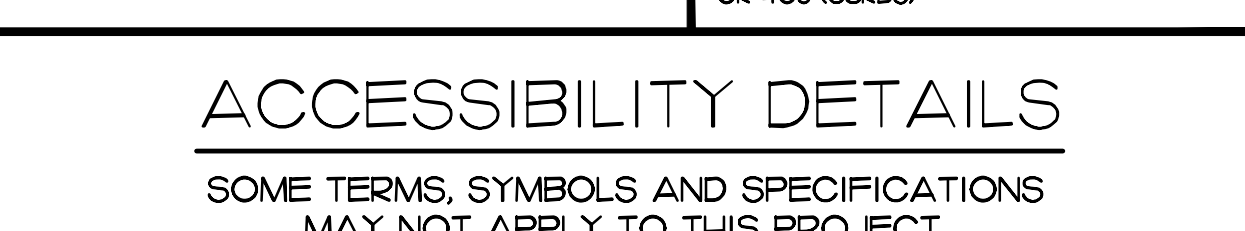
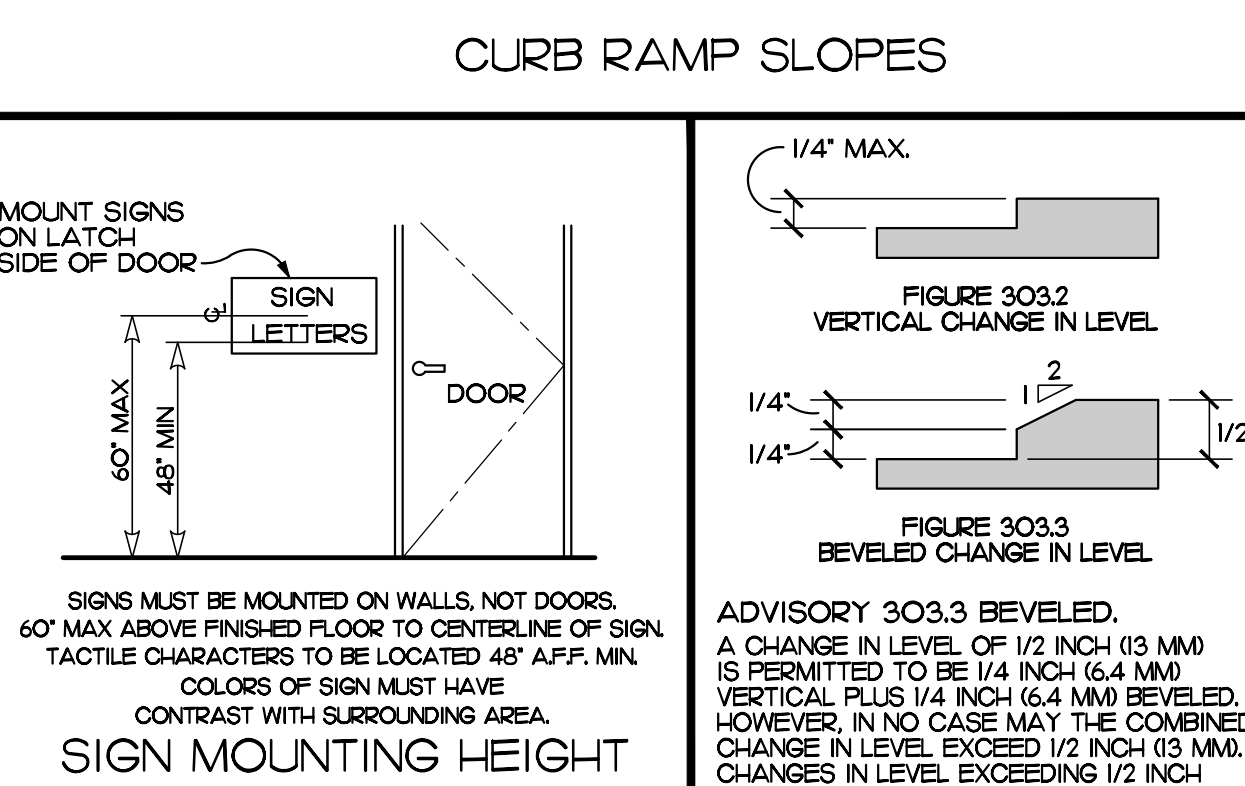
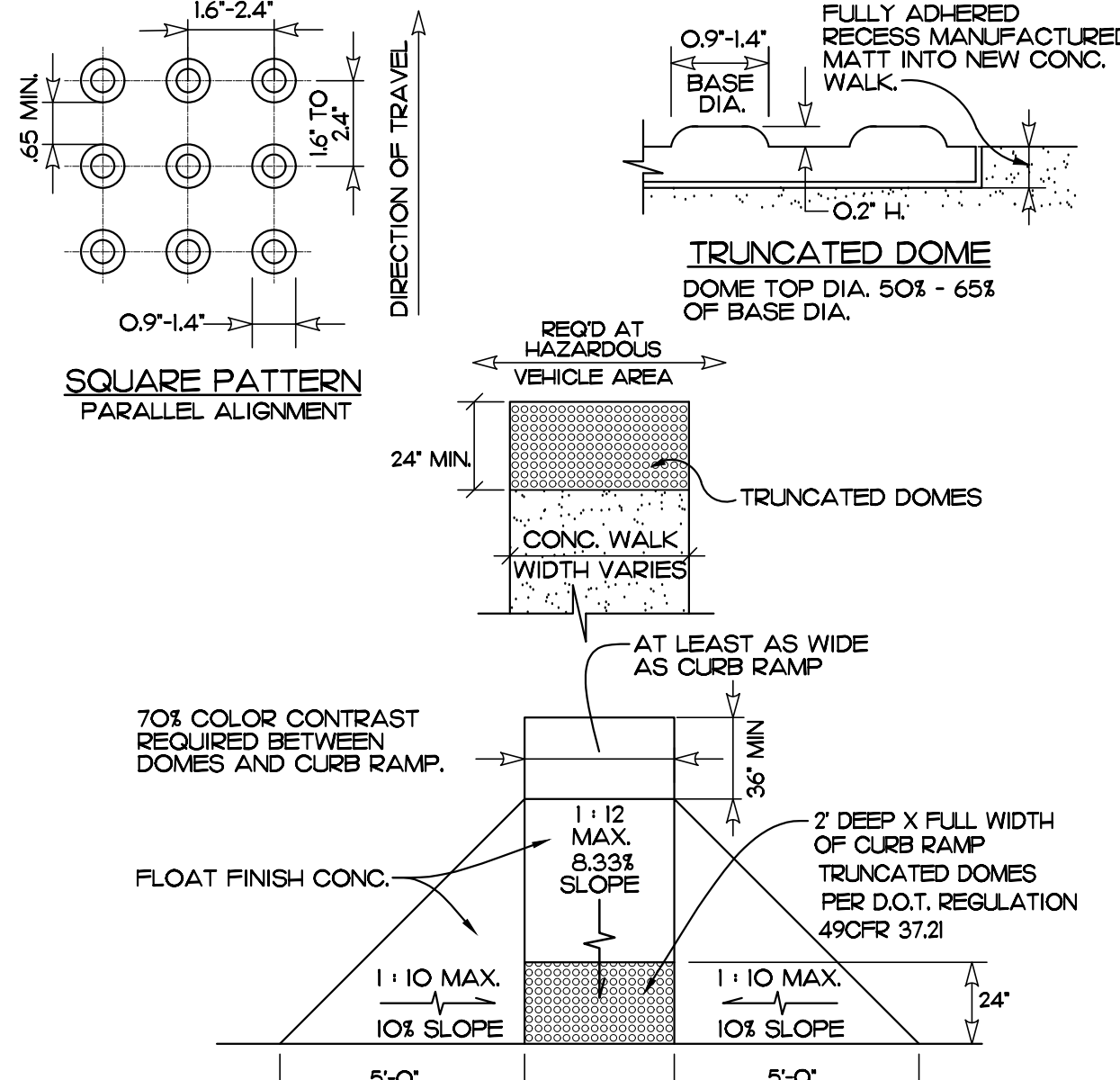
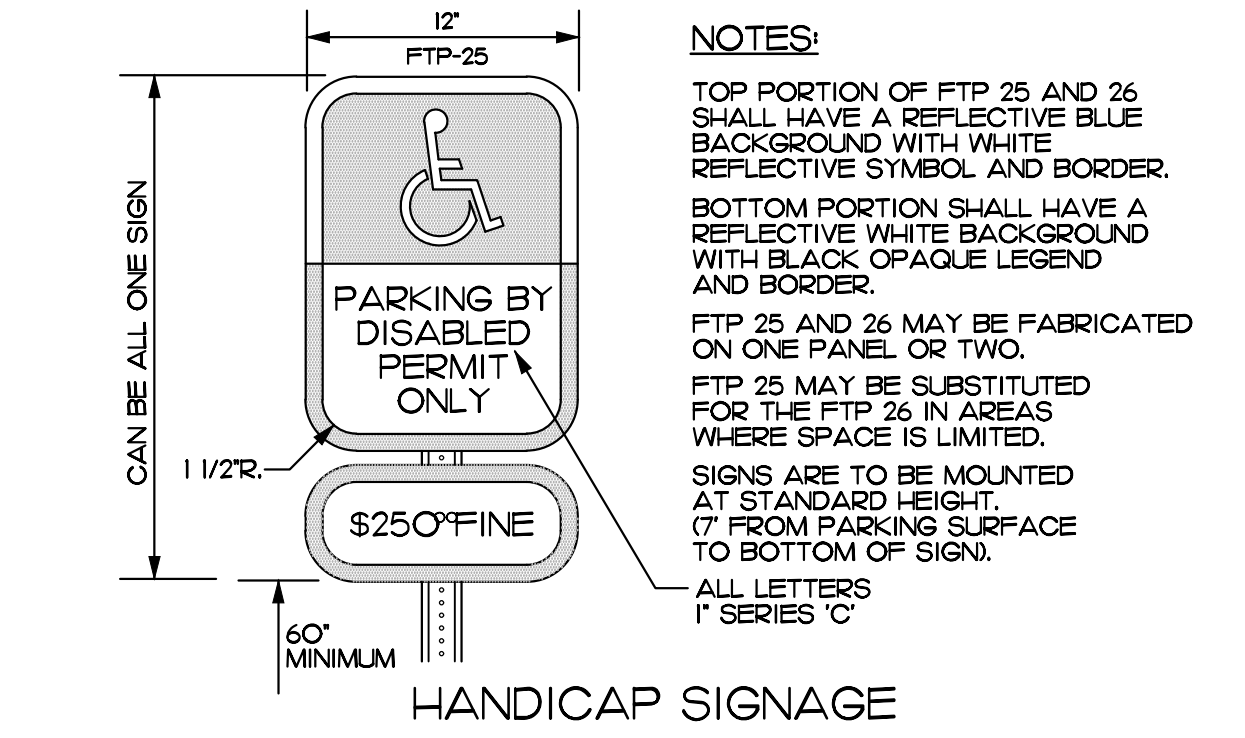
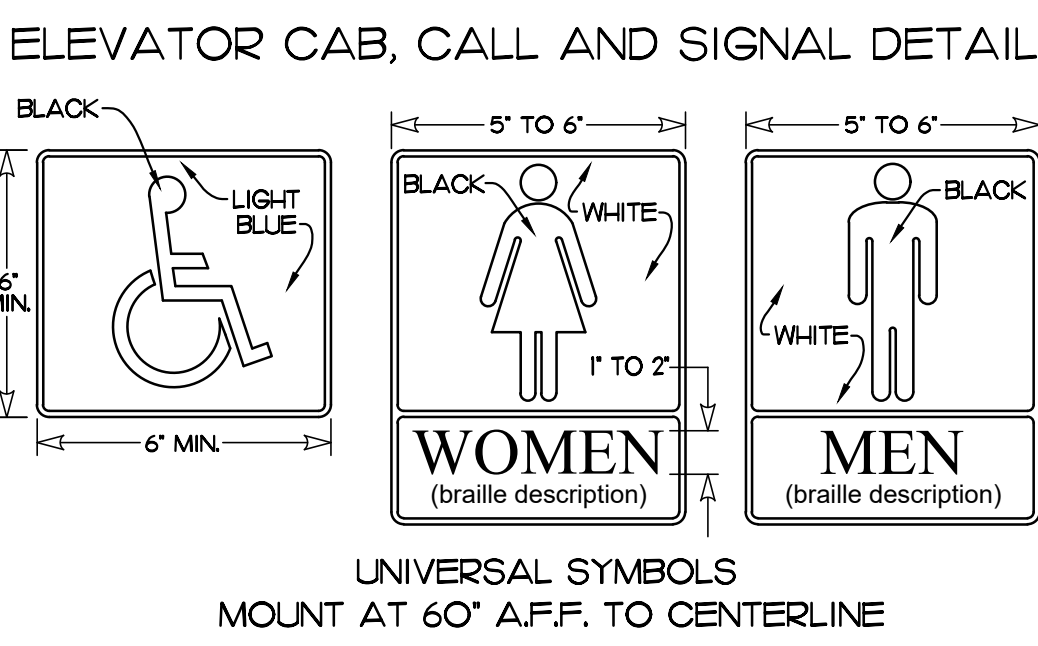
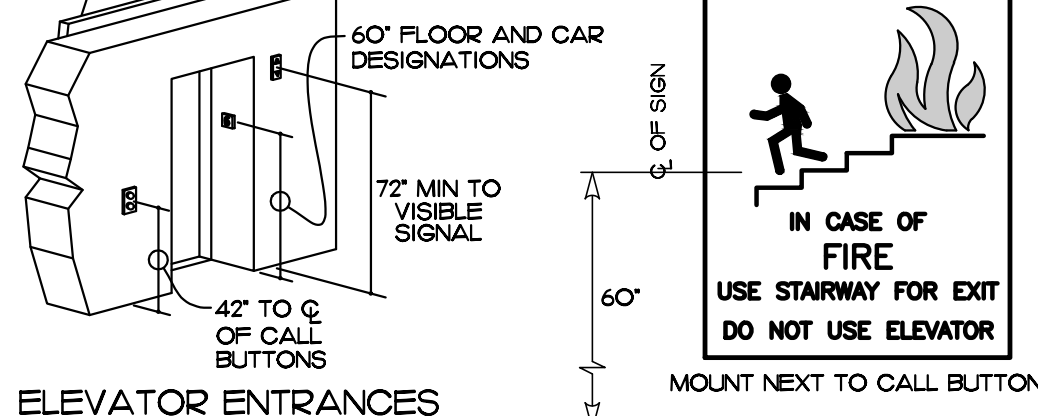
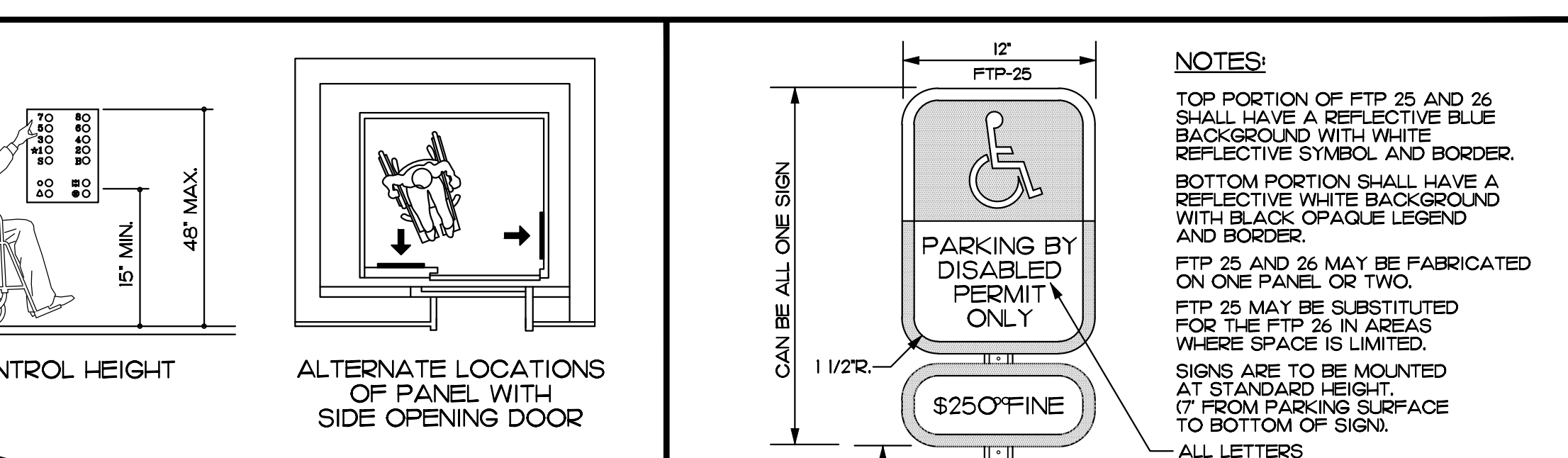
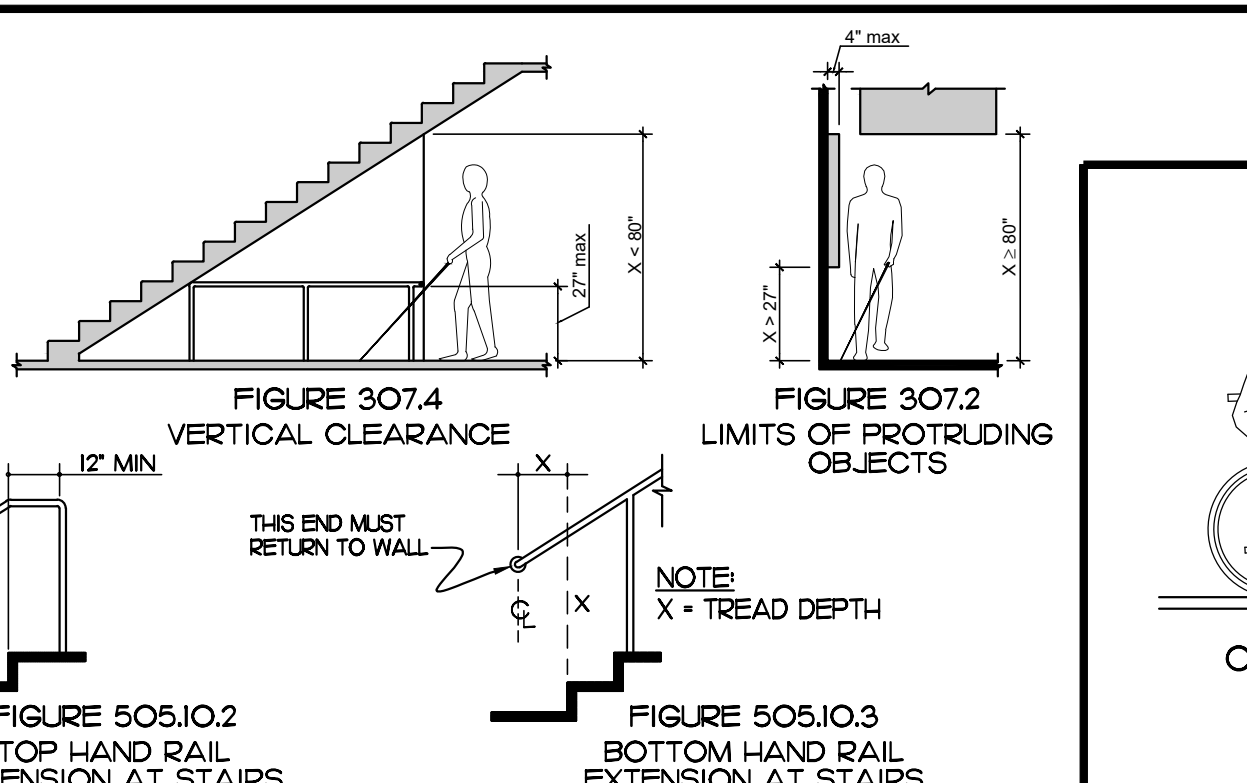
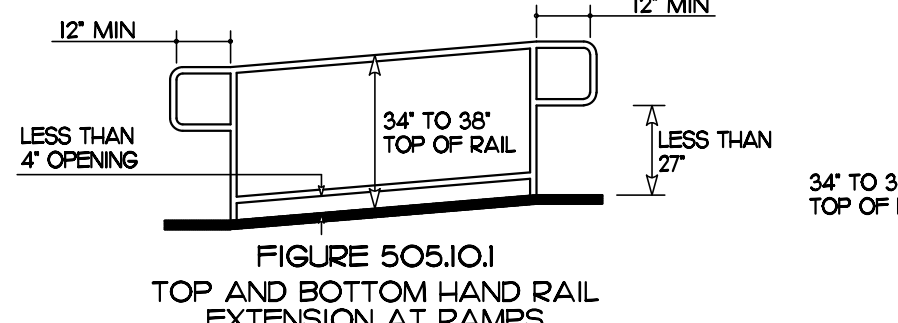
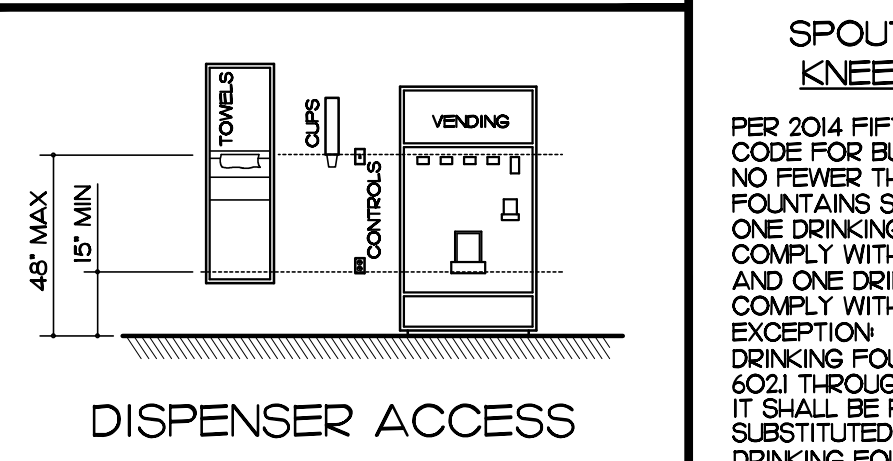
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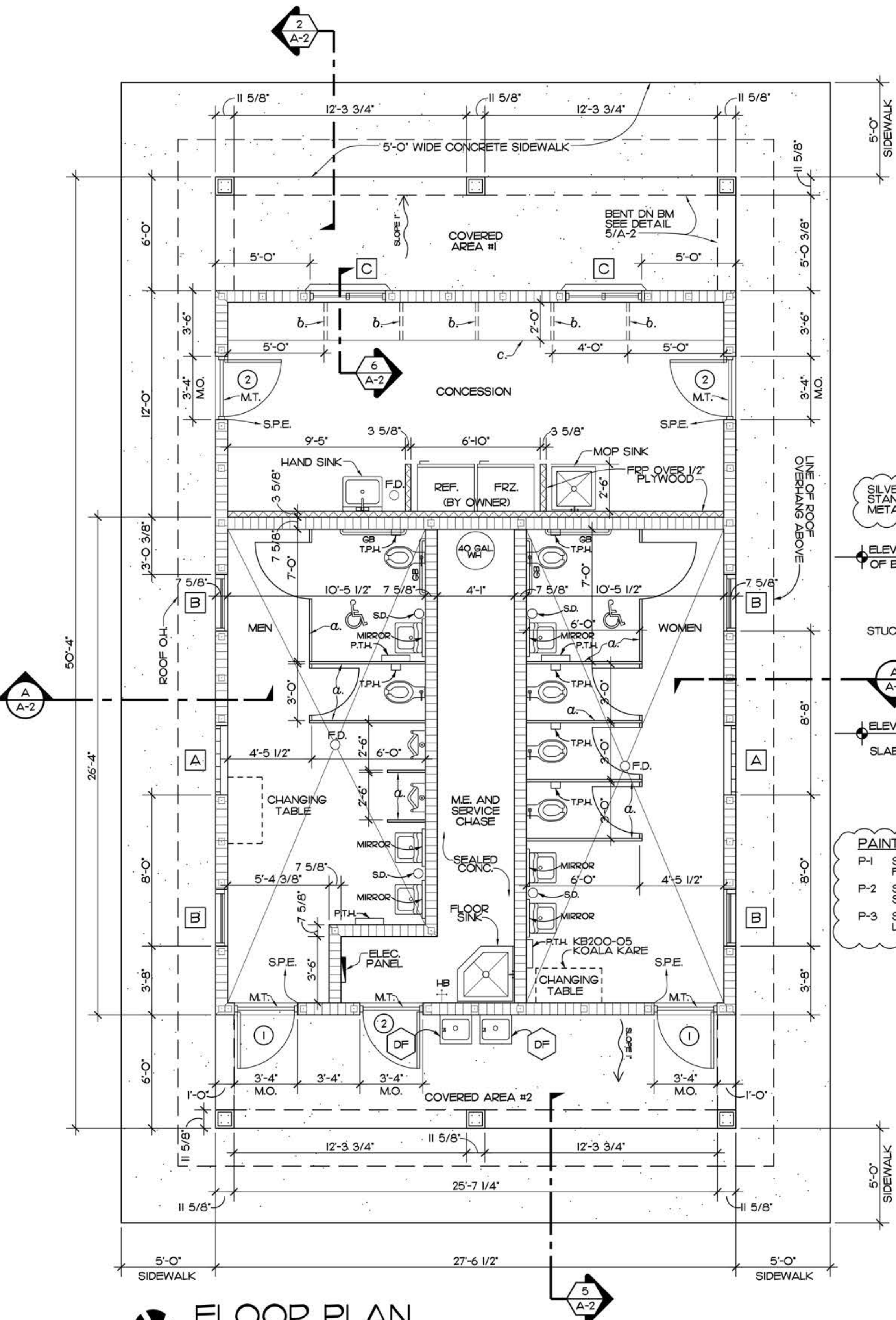
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CHKD: JFB

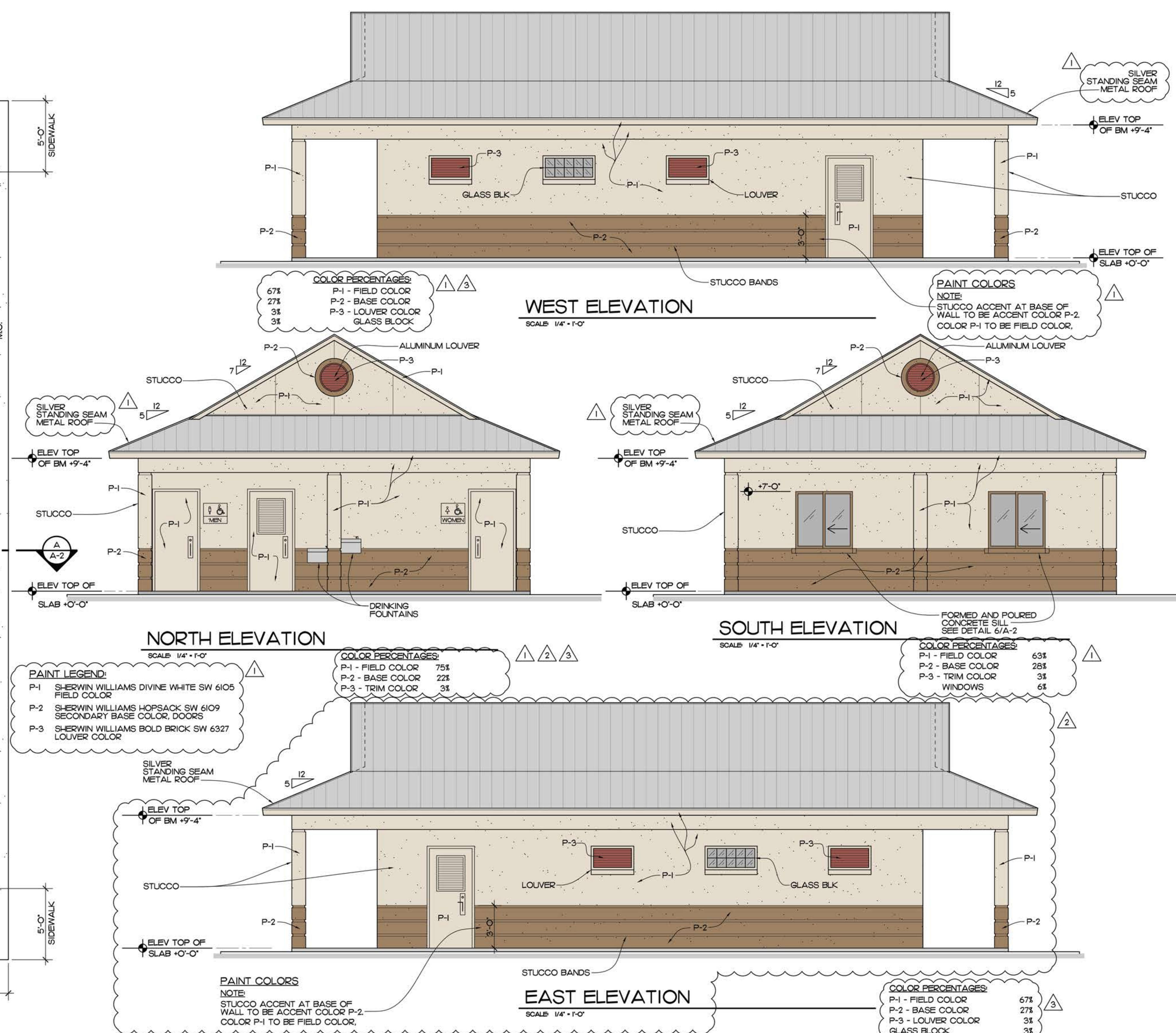
SHEET NO.
COVER
OF ONE





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

AREA DATA	
CONCESSION	330 S.F.
COVERED AREA #1	165 S.F.
RESTROOMS	725 S.F.
COVERED AREA #2	165 S.F.
TOTAL UNDER ROOF	1,385 S.F.



LEGEND	
	NEW MASONRY WALL
	3 5/8" 20 GA STEEL STUDS AT 16" O.C. COVERED WITH FRP OVER 1/2" PLYWOOD CONC. FILLED CELL W/1#5 VERT.
	2 ROWS OF (5) WIDE 8" X 8" GLASS BLOCKS, SEE DETAILS 3/4/A-2
	GREENNECK BH-1-601D ALUMINUM LOUVER 3'-0" W. X 1'-4" H. INSTALL PER NOA NO. 16-0201.03 SEE DETAILS 1/2/A-2
	4'-0" W X 4'-0" H PGT OR EQUAL HORIZONTAL ROLLING WINDOWS (SEE DETAIL 6/A-2)
	SINGLE PLY EPOXY FLOORING AND BASE
	METAL THRESHOLD
	3'-0" W. X 7'-0" H. X 1-3/4" 16 GA. GALV. STEEL DOOR IN 16 GA. STEEL FRAME. (SEE DETAIL 7/8/A-2)
	3'-0" W. X 7'-0" H. X 1-3/4" 16 GA. GALV. STEEL DOOR IN 16 GA. STEEL FRAME WITH FIXED LOUVER W/ BUG SCREEN ON TOP THIRD FOR VENTILATION. (SEE DETAIL 7/8/A-2)
	ELKAY DRINKING FOUNTAIN MODEL EDFP-14-C W/ PUSH BAR BUBBLER CONTROL. COLOR: STAINLESS STEEL
	TOILET PAPER HOLDER
	PAPER TOWEL HOLDER
	HOSE BIBB
	FLOOR DRAIN
	SOAP DISPENSER
	GRAB BAR

PAINTING AND FINISHING NOTES:

- ALL INTERIOR AND EXTERIOR WALLS/CEILINGS TO RECEIVE EPOXY PAINT OVER PROPER PRIMERS. REFER TO SPECIFICATIONS.
- ALL EXTERIOR BORAL, FASCIA, TO BE PRIMED ON ALL FACES AND FINISH PAINTED WITH TWO COATS APPROVED PAINTS PER PLANS AND SPECIFICATIONS.
- DO NOT PAINT ANY COVERED PATIO FLOOR CONCRETE TO BE FINISHED WITH A CLEAR CONCRETE SEALER.
- COLORS AS NOTED OR AS SELECTED BY OWNER.
- RESTROOM FLOORS TO BE SINGLE PLY EPOXY WITH BASE TURNED UP 4". COVERED PATIO FLOOR TO BE FLOAT/SPONGE FINISHED CONCRETE.

NOTES:

- PROVIDE SOLID PLASTIC TOILET PARTITIONS SANTANA OR EQUAL, OWNER TO SELECT COLOR.
- LAMINATE OVER 3/4" PLYWOOD SUPPORTS AT 4'-0" O.C.
- 3'-0" H X 2'-0" WIDE COUNTER SEE DETAIL 6/A-2.

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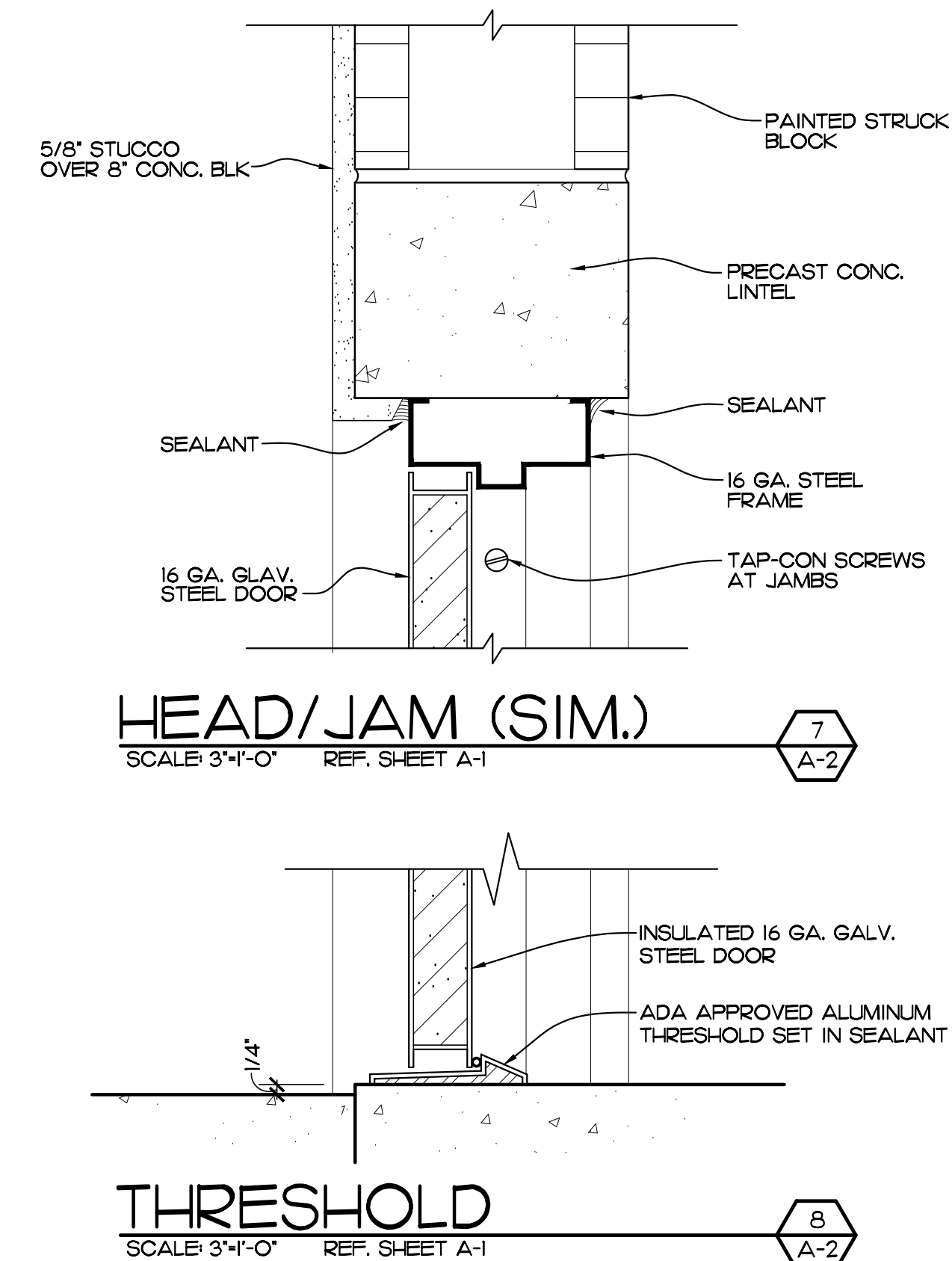
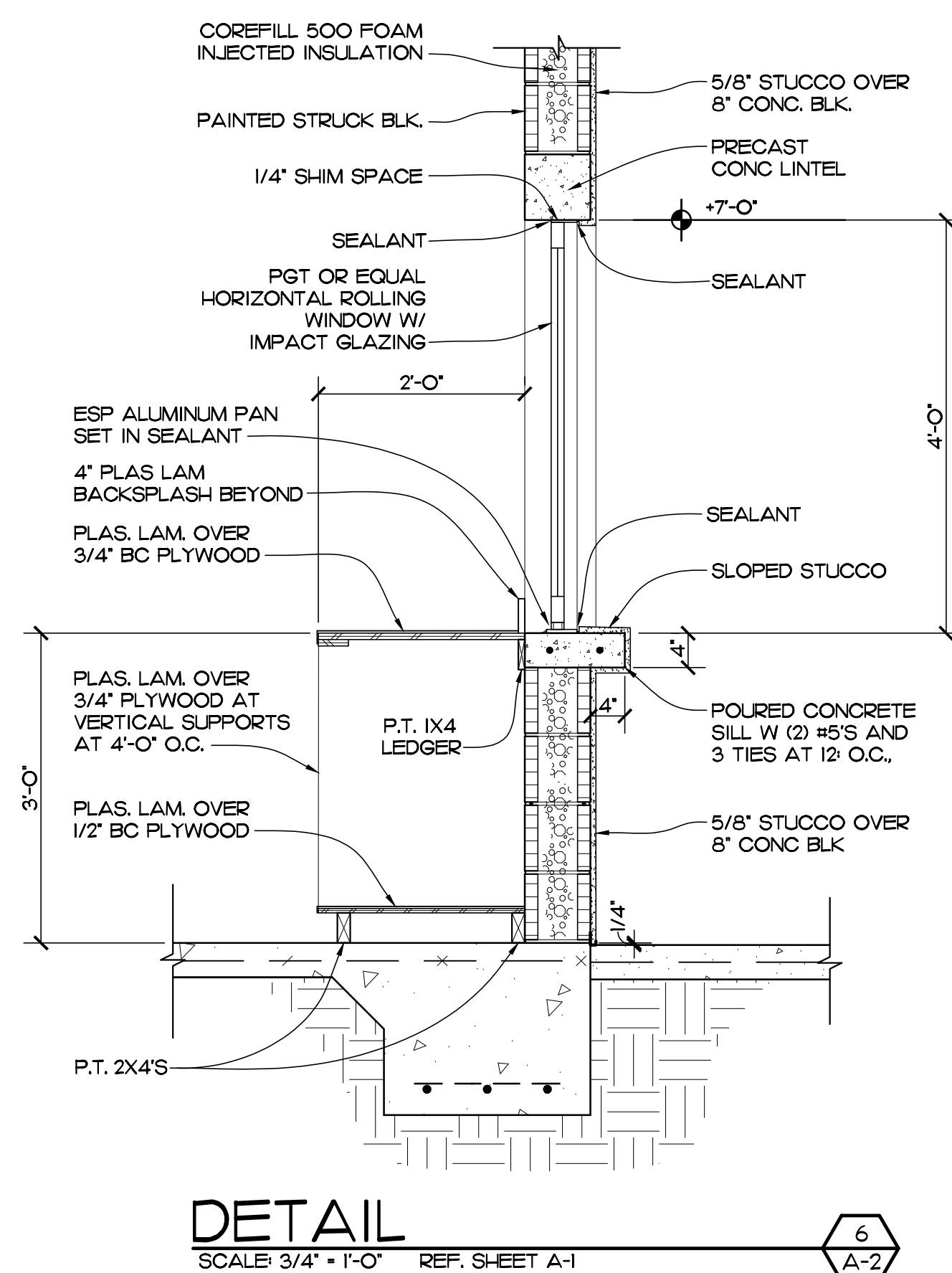
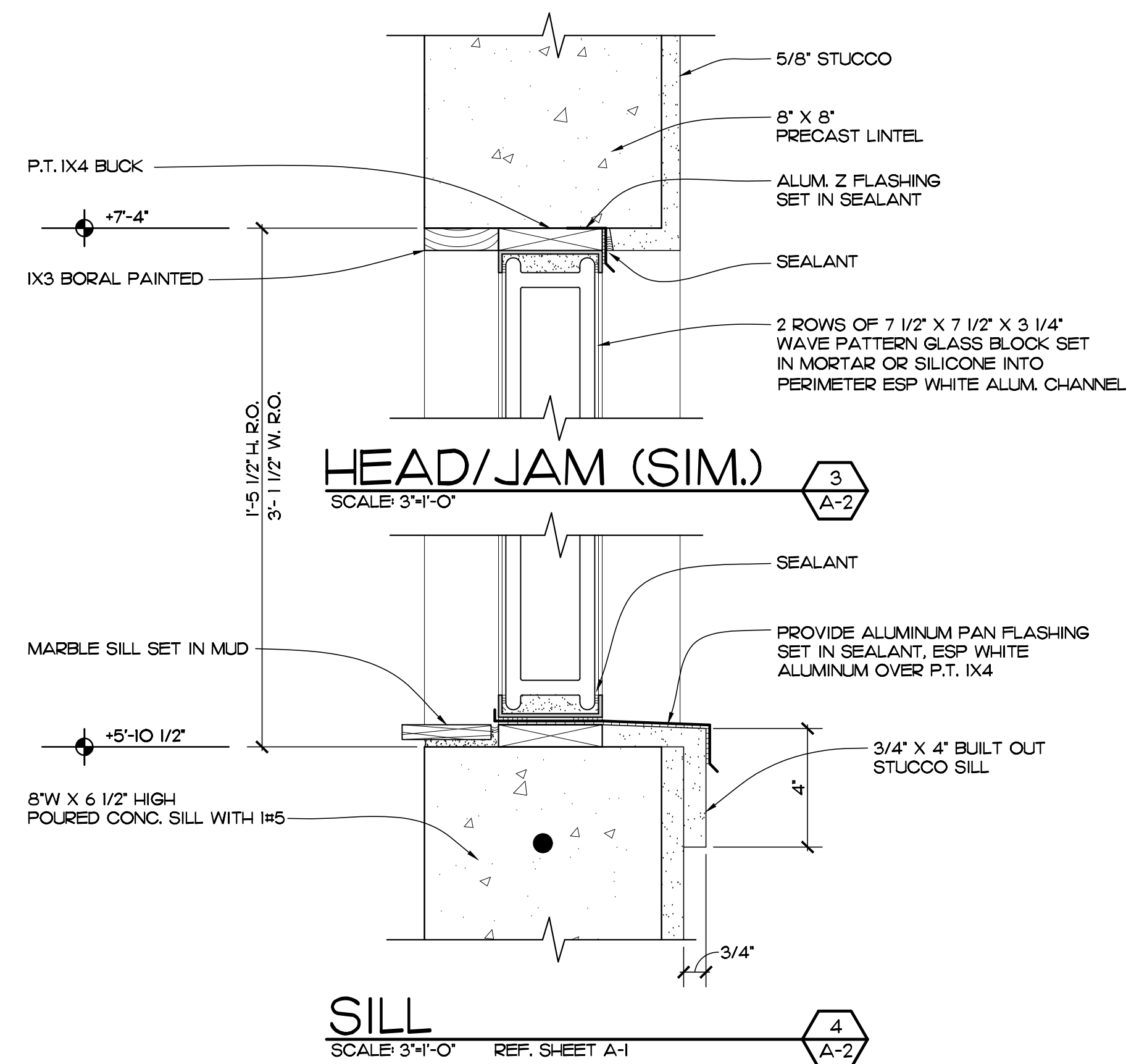
PROJECT: VICTOR HART PARK
RESTROOM BUILDING
FOR: INDIAN RIVER COUNTY PARKS AND RECREATION
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VERO BEACH, FL 32967

NO.	DATE	REVISIONS
1	14DEC23	TRC COMMENT REVISIONS
2	20NOV23	TRC COMMENT REVISIONS
3	18OCT23	TRC COMMENT REVISIONS

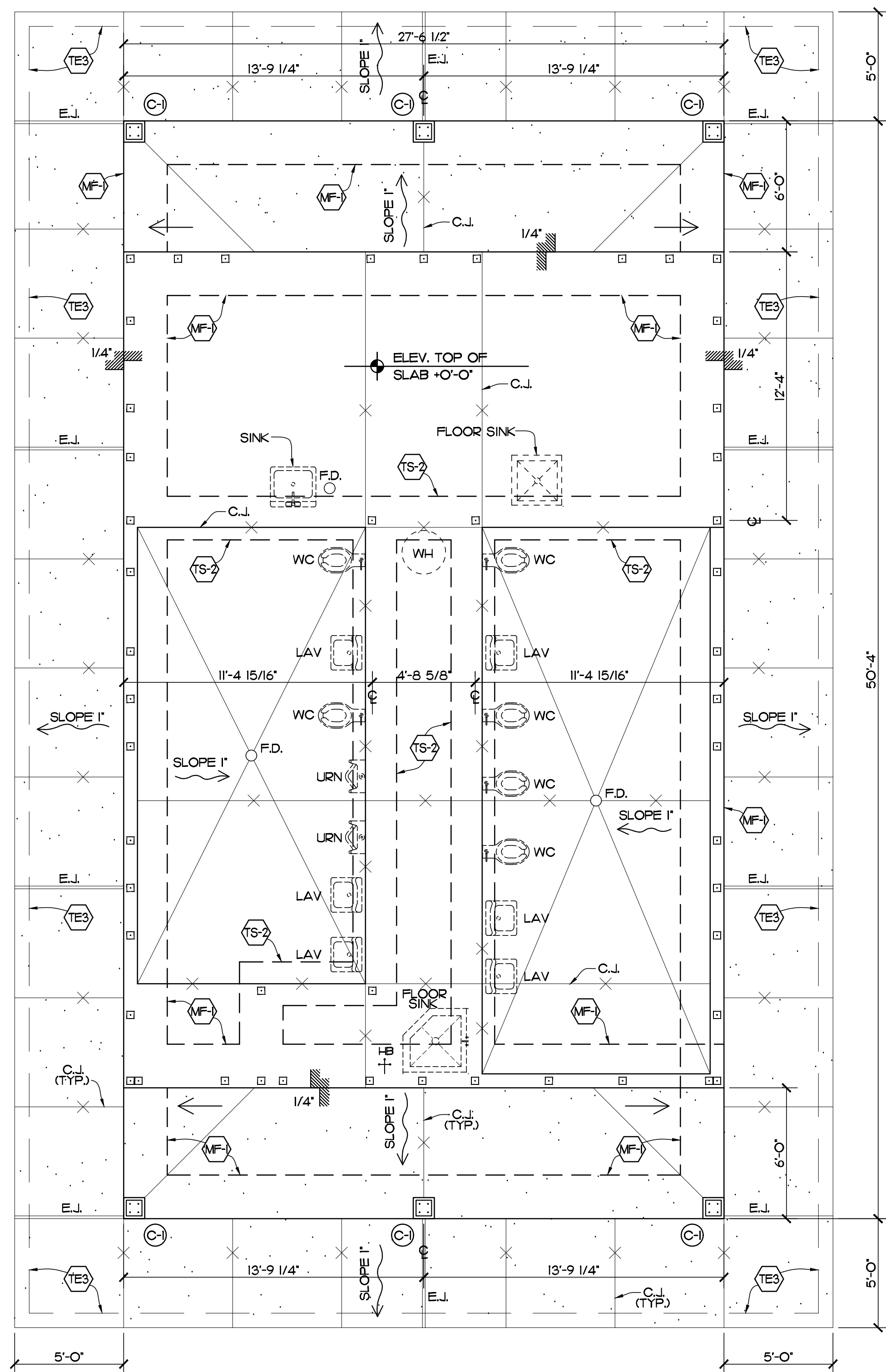
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SHEET NO.
A-1
OF TWO



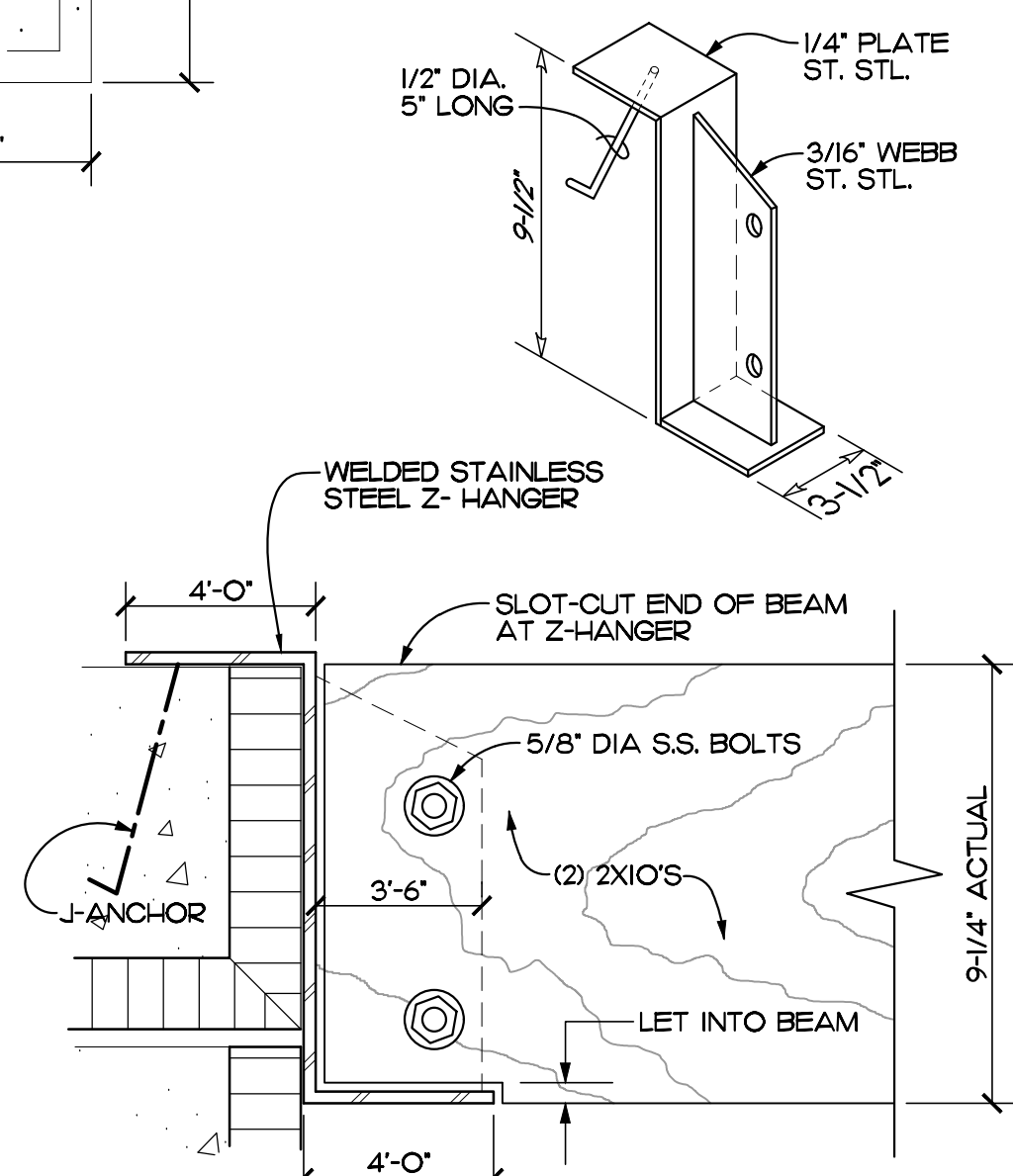
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A-2
OF TWO



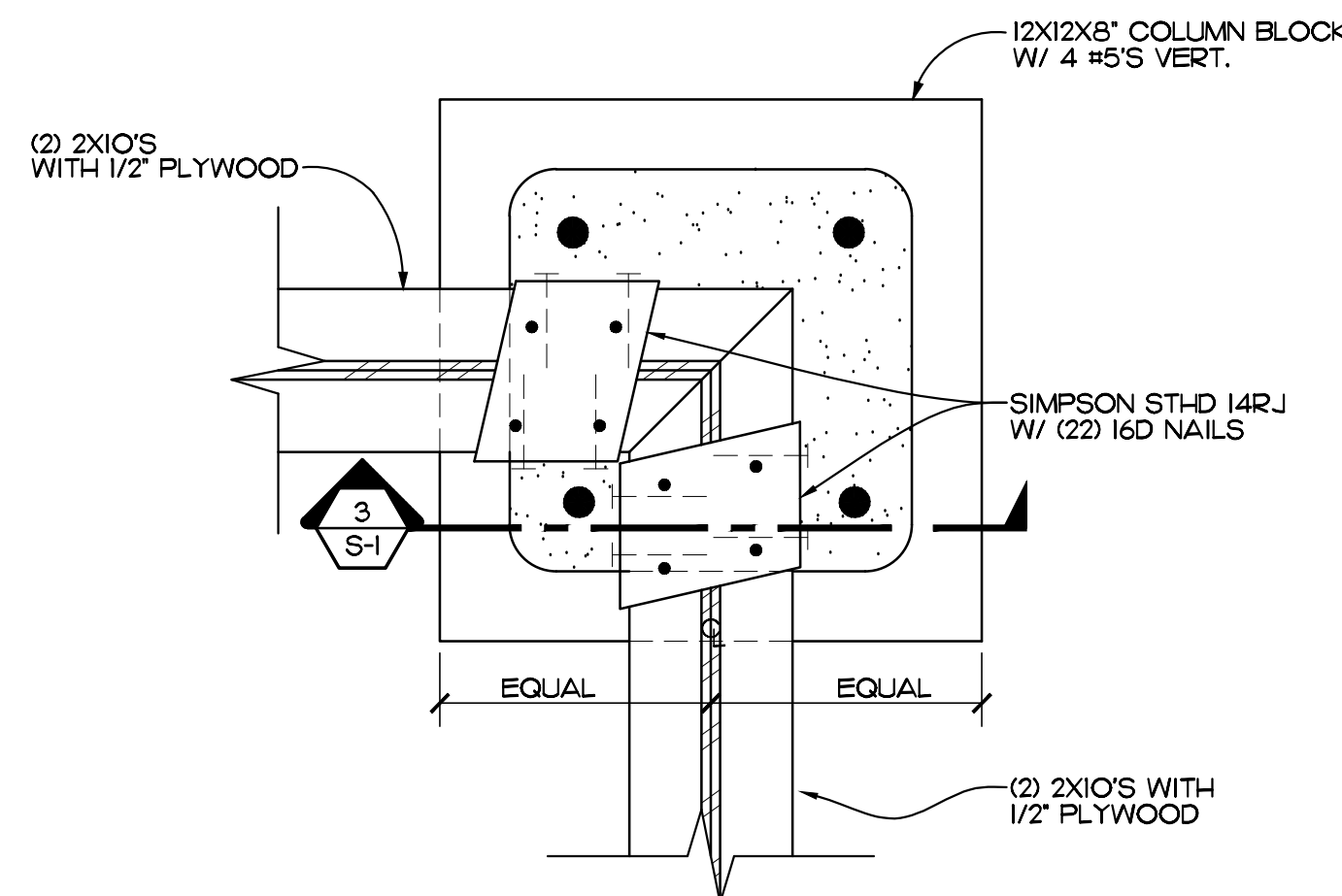
FOUNDATION PLAN

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

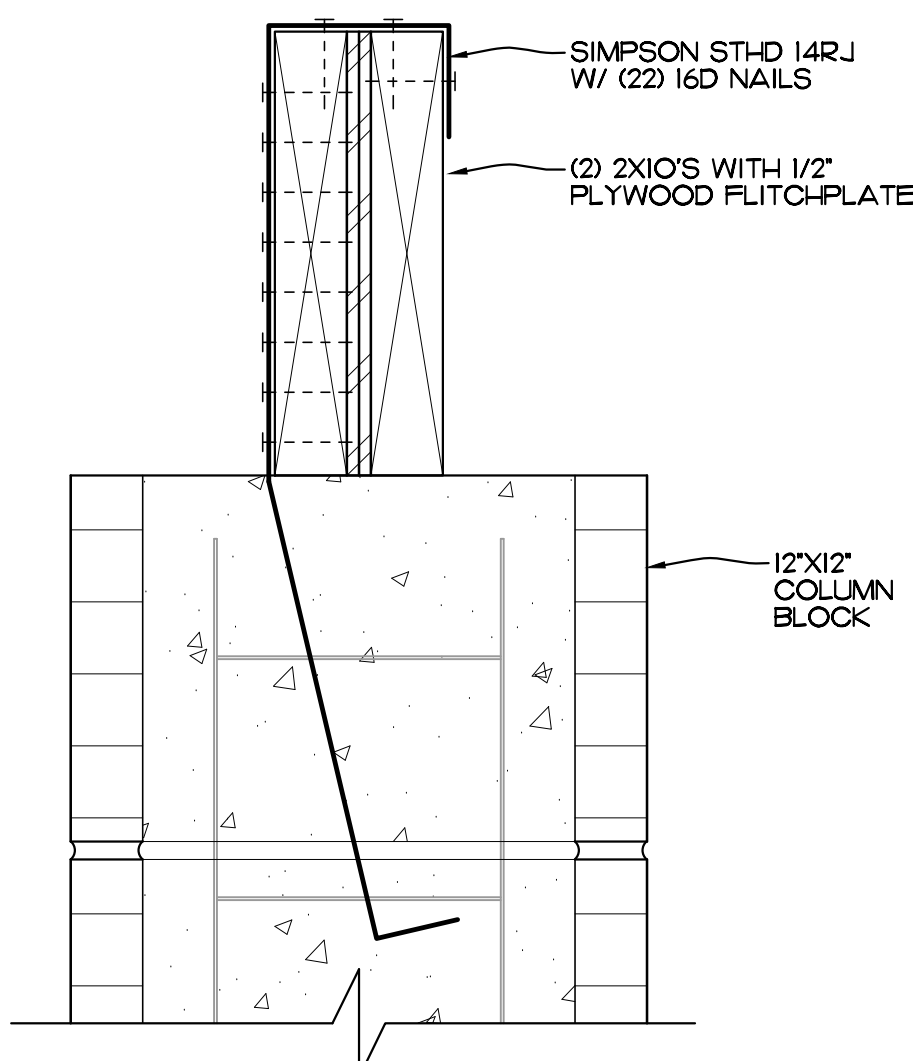
- LEGEND:
- C-1 1/8" WIDE X 1" DEEP CONTROL JT. CUT WITHIN 24 HOURS OF SLAB POUR
 - E-1 1/2" EXPANSION JT.
 - MF-1 FOOTING DESIGNATION SEE FOOTING SCHEDULE
 - C-1 COLUMN DESIGNATION SEE COLUMN SCHEDULE



DETAIL 2
SCALE: 3" = 1'-0" REF. THIS SHEET



DETAIL 1
SCALE: 3" = 1'-0" REF. THIS SHEET

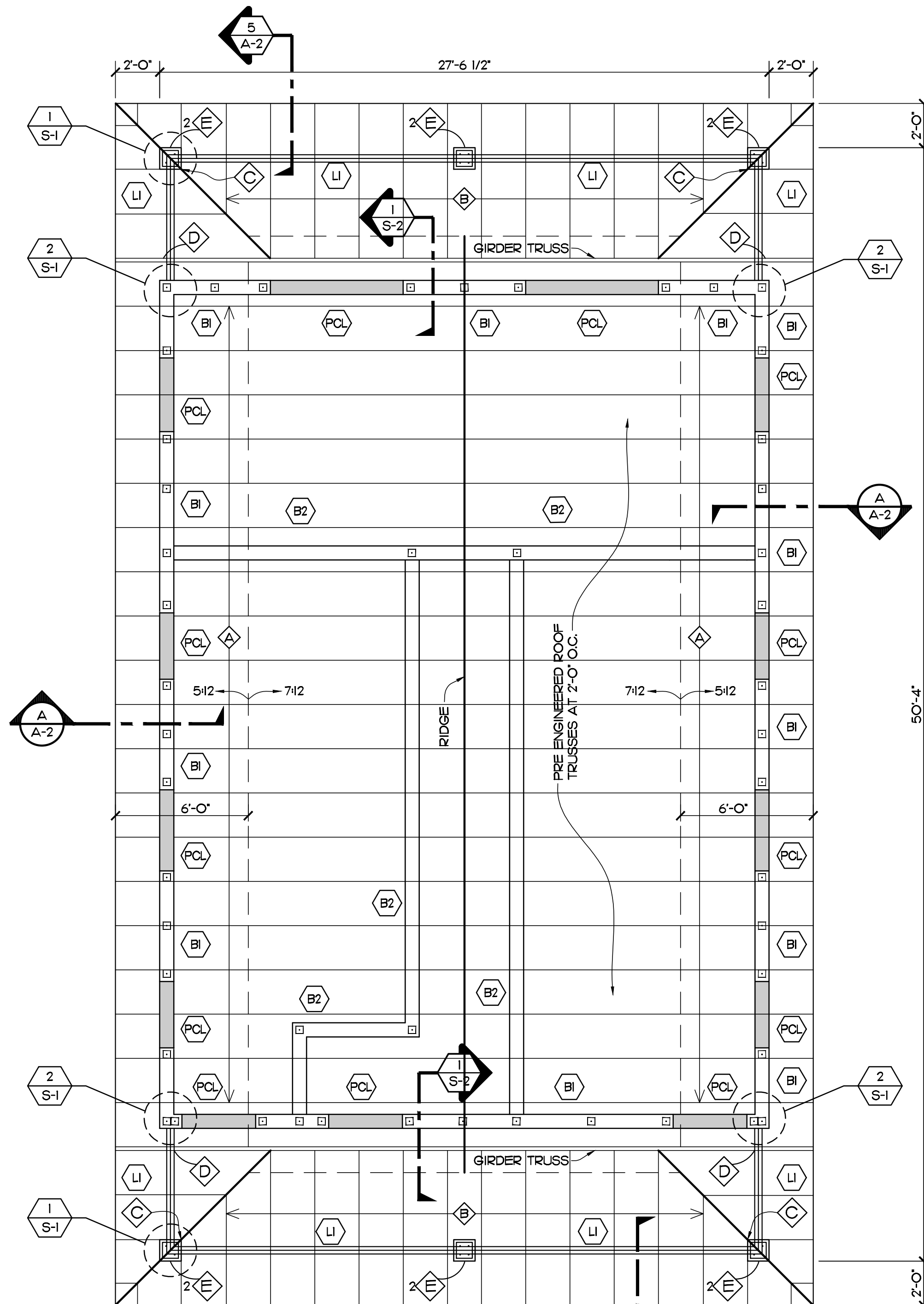


DETAIL 3
SCALE: 3" = 1'-0" REF. THIS SHEET

FOOTING SCHEDULE			
MARK	SIZE	TYPE	TE - THICKENED EDGE
			PF - PAD FOOTING
MF-1	24" W. X 20" DP.	MONOLITHIC FOOTING	3 #5'S CONT. BOTTOM W/#5'S TRANSV. AT 36" O.C.
TS-2	24" W. X 12" DP.	THICKENED SLAB	2 #5'S CONT. BOTTOM W/#5'S TRANSV. AT 36" O.C.
TE-3	8" X 8" DP.	AT SIDEWALKS/SOOPS TYPICAL	1 #5 CONTINUOUS

COLUMN SCHEDULE			
MARK	SIZE	VERTICAL REINFORCING OR CAP P. AND BOLTS	COLUMN TIES OR BASE P. AND ANCHOR BOLTS
C-1	12" X 12" X 8" COL. BLK	4 #6'S VERT.	#3 TIES AT 8" O.C. VERTICAL

WOOD TRUSS CONNECTOR SCHEDULE					
MARK	CONNECTORS	FASTENERS	ALLOWABLE UPLIFT	MAX. CALC. UPLIFT	REMARKS
A	HETA 16	(9) 10D X 1-1/2"	1810 LBS	580 LBS	TYPICAL TRUSS TO CMU. UNLESS NOTED OTHERWISE
B	HTS 20	(24) 10D X 1-1/2"	1450 LBS	580 LBS	
C	(2) HETA 16	(18) 10 D X 1-1/2" NAILS	3620 LBS	770 LBS	
D	(2) HTS 20	(2) 24 16D X 1-1/2"	2900 LBS	770 LBS	
E	(2) STD 14FJ	(2) 22 16D X 1-1/2"	2 X 3695 LBS	2900 LBS	

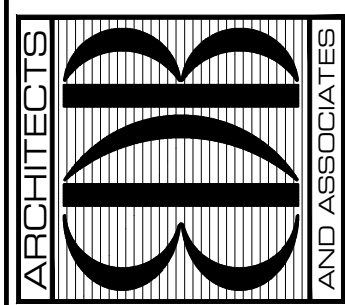


ROOF FRAMING PLAN

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

MARK	SIZE	REINFORCING			STIRRUPS		REMARKS
		TOP	INT	BOT	SIZE	SPACING	
B1	2 ROWS OF CONC. FILLED 8"x8"x16" CHANNEL BLK	1 #7 IN EA ROW	---	---	---	---	TYPICAL TIE BEAM
B2	CONCRETE FILLED 8"x8"x16" CHANNEL BLK	1 #7	---	---	---	---	TYPICAL AT INTERIOR BLK WALLS
PCL	8"W X 8"H PRECAST CONC. LINTEL	---	---	---	---	---	

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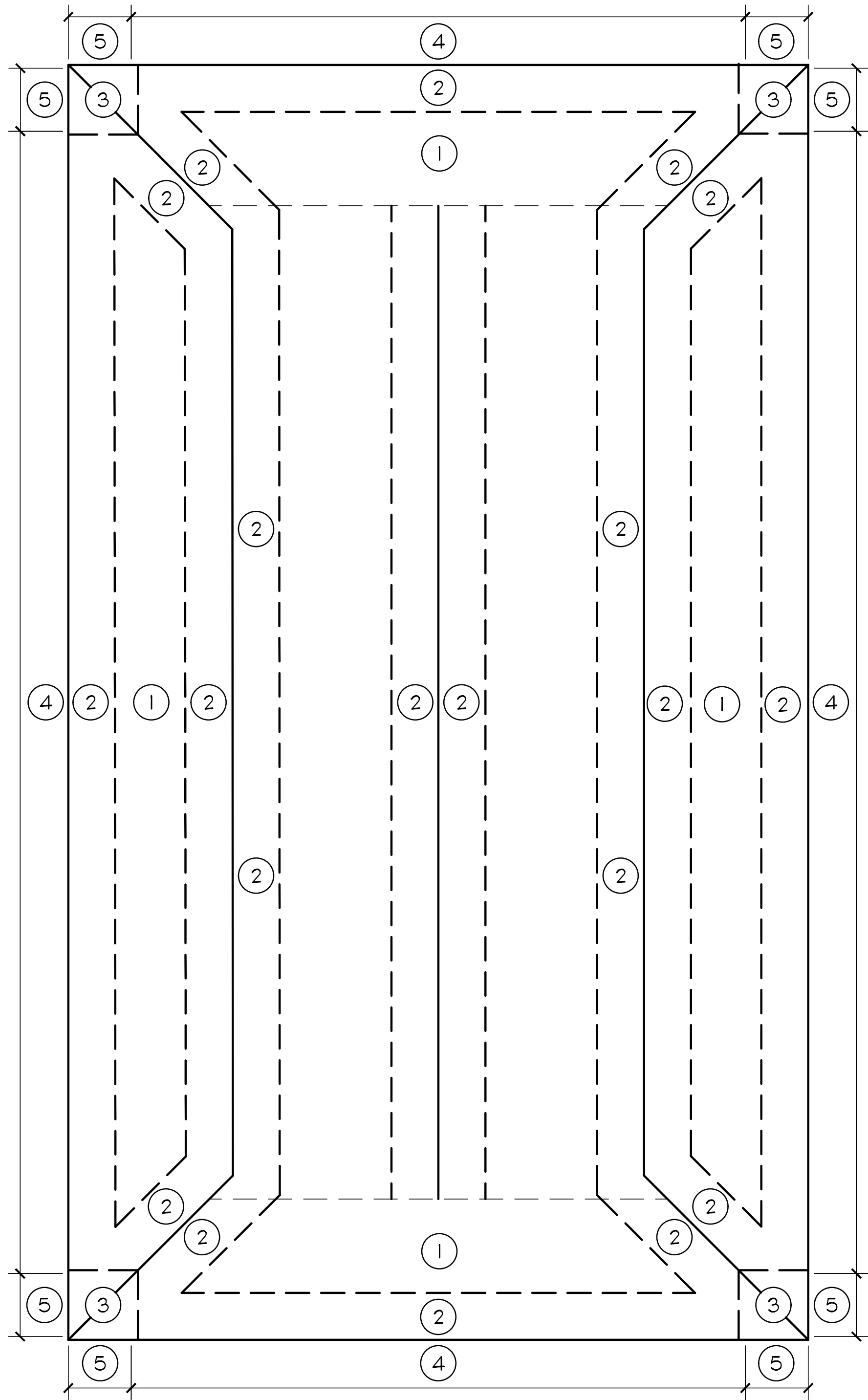
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RESTROOM BUILDING
INDIAN RIVER COUNTY PARKS AND RECREATION
5570 7TH STREET
VERO BEACH, FL 32967
FOR:

NO.	DATE	REVISIONS

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DATE: AUGUST 1, 2023
BY: LJD
CHKD: JFB

SHEET NO.
S-1
OF TWO



WIND PRESSURE ZONE DIAGRAM
SCALE: NTS

DESIGN CRITERIA

FLORIDA BUILDING CODE, 6TH EDITION (2017) BUILDING

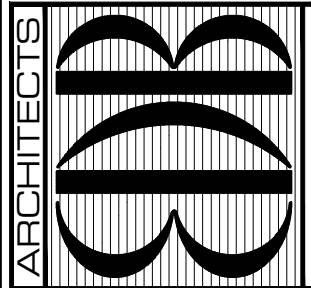
ROOF LOADS	
DEAD	20 PSF (METAL ROOF)
LIVE	
TRUSS TOP CHORD	20 PSF
TRUSS BOTTOM CHORD / STORAGE	20 PSF
TRUSS BOTTOM CHORD W/O STORAGE	10 PSF
WIND LOADS	
DESIGN CRITERIA PER ASCE-7	
ULTIMATE WIND SPEED REGION, V(ULT)	170 MPH
NOMINAL WIND SPEED REGION, V(ASD)	132 MPH
WIND BORNE DEBRIS REGION	
ENCLOSED STRUCTURE	
BUILDING HEIGHT	≤ 20 FT.
ROOF PITCH	7/12
RISK CATEGORY	III
INTERNAL PRESSURE COEFFICIENT	±0.18
EXPOSURE	C
HEIGHT AND EXPOSURE COEFFICIENT	1.29

NOMINAL COMPONENT AND CLADDING PRESSURES PSF (ASD)								
ZONE	EFFECTIVE AREA (IN SQ. FT.)							
	0 < 10	11 < 20	21 < 50	51 < 100				
ROOF	1	+23 -37	+21 -36	+19 -35	+15 -34			
	2	+23 -64	+21 -59	+19 -52	+15 -47			
	3	+23 -95	+21 -89	+19 -81	+15 -75			
	4	+40 -44	+39 -42	+36 -40	+34 -38			
WALL	5	+40 -54	+39 -50	+36 -46	+34 -42			
	4	-44	-42	-40	-38			
SOFFIT	5	-54	-50	-46	-42			
	4							

- NOTES:
- 1) END ZONE 5 IS WITHIN A DISTANCE (A) = 6'-6" FROM BUILDING CORNERS
 - 2) THE PROPOSED STRUCTURE IS LOCATED WITHIN A WINDBORNE DEBRIS AREA.

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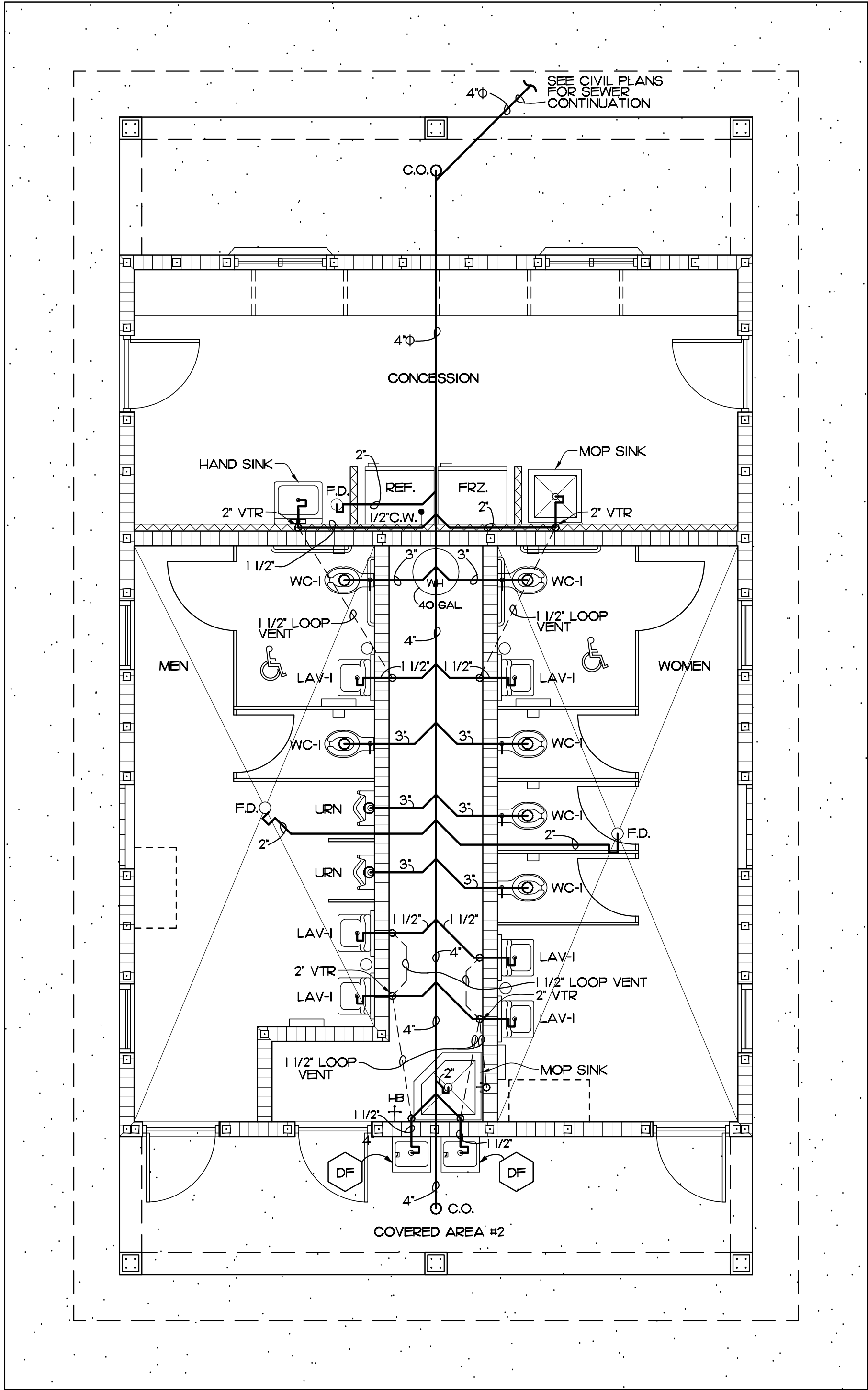
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CHKD: JFB

SHEET NO.
S-2
OF TWO



PLUMBING PLAN

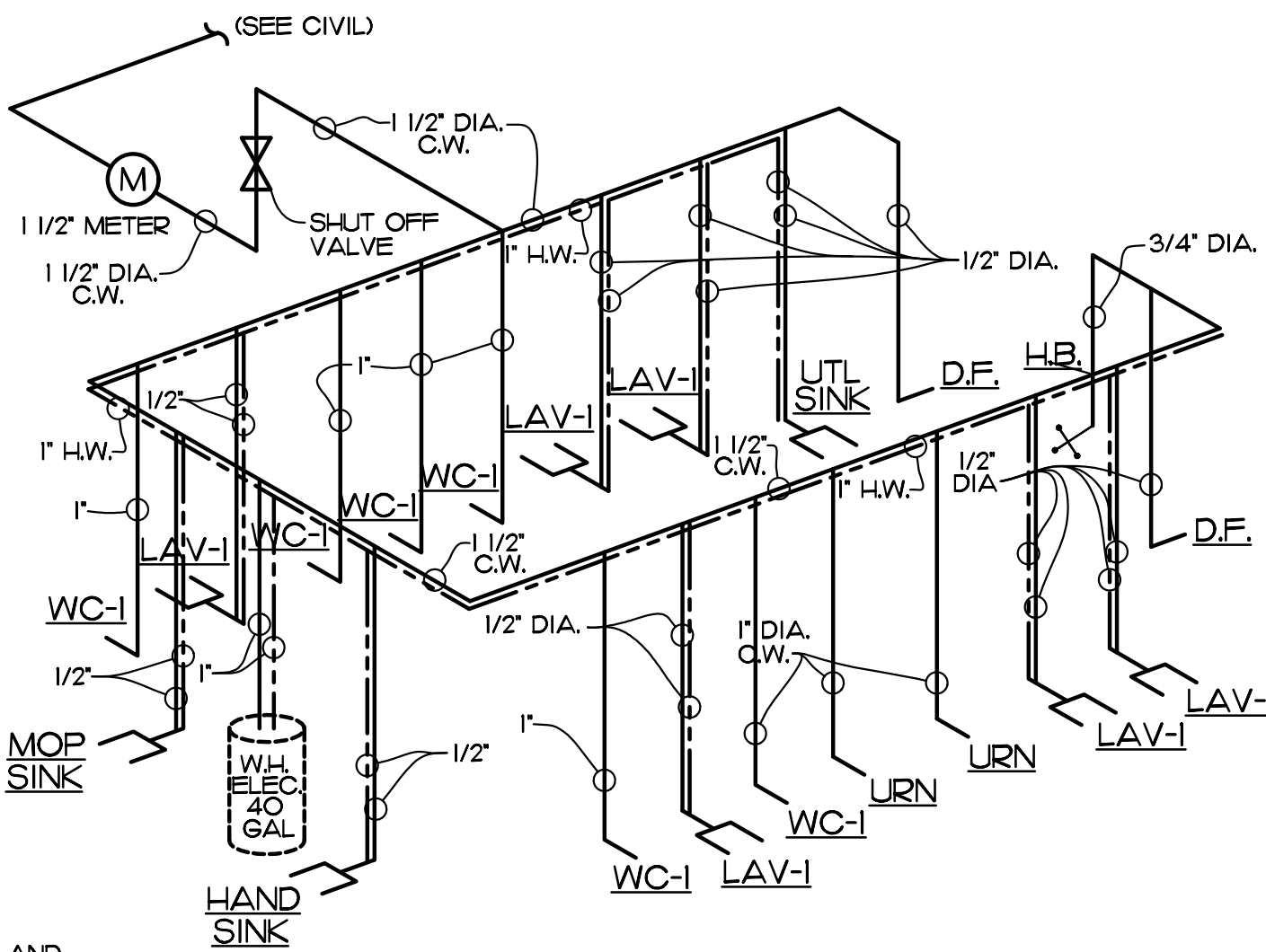
SCALE: 1/4" = 1'-0"

PLUMBING FIXTURE SCHEDULE	
LAV-I	HANDICAP LAVATORY, AMERICAN STANDARD, LUCERNE, LUCERNE WALL HUNG VITREOUS CHINA WITH ELONGATED RIM AND 1 1/2" TOP SPUD, 18" HIGH AMERICAN STANDARD, 3541.000US ELDERLY NEW CADET, AQUAMETER, 126 GPF TOILET WITH SLOAN ROYAL III-16 FLUSH VALVE AND CENTCO 5000C OPEN FRONT SEAT LESS COVER.
D.F.	ELKAY WALL MOUNTED DRINKING FOUNTAIN W/ MECHANICAL FRONT BUBBLER BUTTON MODEL ELKAY #8751080083 ZORO # G8372730 COLOR: STAINLESS STEEL
WC-I	HANDICAP WATER CLOSET - FLUSH VALVE BOWL, FLOOR MOUNTED, SIPHON JET STANDARD, 3541.000US ELDERLY NEW CADET, AQUAMETER, 126 GPF TOILET WITH SLOAN ROYAL III-16 FLUSH VALVE AND CENTCO 5000C OPEN FRONT SEAT LESS COVER.
F.D.	FLOOR DRAIN, JOSAM SERIES 30000A, C.I. BODY, POLISHED BRONZE STRAINER, INTEGRAL TRAP, WITH PRIMER CONNECTION AND TRAP GUARD INSERT BY PROSET.
C.O.	EXTERIOR CLEAN OUT, ADJUSTABLE TOP, INTERNAL CLOSURE PLUG, HEAVY DUTY COVER PLATE.
UR	URINAL AMERICAN STANDARD, WASI-BROOK #6501010, FLUSH VALVE SLOAN ROYAL #186-I, WALL MOUNTED WHITE URINAL, WALL CARRIER, WADE #400AMII-M36, MUST MEET A.D.A. CODE.

LIGHT FIXTURE SCHEDULE		
MARK	TYPE	MANUFACTURER
(A)	4 FT. LONG SURFACE MOUNTED LED FIXTURE WITH WEATHER PROOF COVER	H.E. WILLIAMS 75L-4-L38-840 -A 12125-DRV-UNV OR EQUAL
(B)	RECESSED LED CAN WEATHERPROOF	H.E. WILLIAMS 4DR-TL-L20-835 -DIM-UNV-O-W-OF-WETCC OR EQUAL
(C)	EMERGENCY LIGHT DUAL HEAD	BEGHELLI - PEL-I TWO LAMP EMERGENCY LIGHTING FIXTURE OR EQUAL

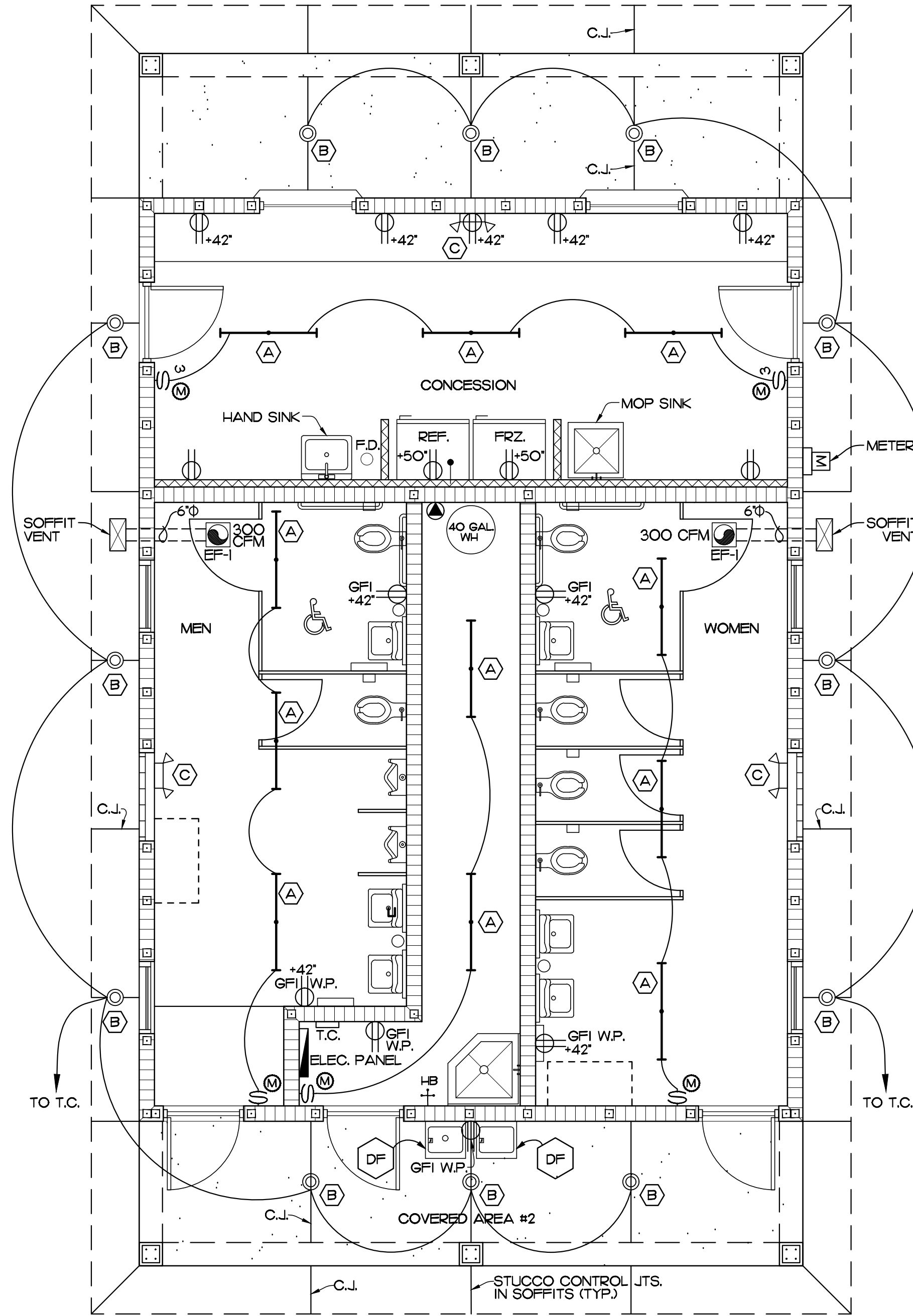
PANEL:				VOLTAGE: 120/240V 1Ø LOCATION: SERVICE CHASE				BUS/BREAKER AIC RATING: 22KA/10KA MOUNTING: SURFACE-NEMA 3R				RATING: 200A MAIN CONNECTION: MCB			
				FED FROM: FPL TRANSFORMER				DEVICE FAMILY: SIEMENS/SQUARE D							
"PI"	WIRE SIZE	CIR CUT	P	CONNECTED KVA			NO.	CONNECTED KVA			P	CIR CUT	WIRE SIZE	DESCRIPTION	
				A		C		A		C					
L-LIGHTING	12	20	I	1.0			1	2	1.0		I	20	12	EXHAUST FANS	
L-LIGHTING	12	20	I			1.0	3	4		1.0	I	20	12	WATER COOLERS	
L-LIGHTING	12	20	I	1.0			5	6	3.5		I	30	8	WATER HEATER	
L-LIGHTING	12	20	I			1.0	7	8		1.0	I	20	12	REFRIGERATOR	
SPARE		20	I				9	10	1.0		I	20	12	FREEZER	
R-RECEPTACLES	12	20	I	1.0			11	12		1.0	I	20	12	SMALL APPLIANCES	
R-RECEPTACLES	12	20	I			1.0	13	14	1.0		I	20	12	SMALL APPLIANCES	
R-RECEPTACLES	12	20	I	1.0			15	16			I	20		SPARE	
R-RECEPTACLES	12	20	I			1.0	17	18			I	20		SPARE	
SPARE		20	I				19	20			I	20		SPARE	
SPARE		20	I				21	22			I	20		SPARE	
SPARE		20	I				23	24			I	20		SPARE	
SPARE		20	I				25	26			I	20		SPARE	
SPARE		20	I				27	28			I	20		SPARE	
SPARE		20	I				29	30			I	20		SPARE	
				4.0		4.0	TOTAL	1.0		1.0	TOTAL CONNECTED KVA 17.5				
SERVES				CONNECTED LOAD KVA						DF	CALCULATED DEMAND-KVA				
LIGHTING				2.0						1.25	2.5				
RECEPTACLES (FIRST 10KVA)				2.0						1	2.0				
RECEPTACLES (FIRST 10KVA)				0.00						0.5	0.00				
LARGEST MOTOR				0.00						1.25	0.00				
OTHER MOTORS				2.0						1	2.0				
EQUIPMENT-HEAT				19.0						1	19.0				
KITCHEN EQUIPMENT				30.0						1	30.0				
TOTAL DEMAND KVA											55.5				
TOTAL AMPERAGE											103.2				

NOTES:
1. VERIFY ELECTRICAL REQUIREMENTS FOR ALL EQUIPMENT WITH MANUFACTURERS MANUAL PRIOR TO BIDDING AND INSTALLATION.
2. PROVIDE TYPE WRITTEN DIRECTORY ON INSIDE OF PANEL COVER.



WATER RISER DIAGRAM

NOTE:
COORDINATE METER SIZE AND LOCATION WITH UTILITY PROVIDER (SEE CIVIL PLANS)

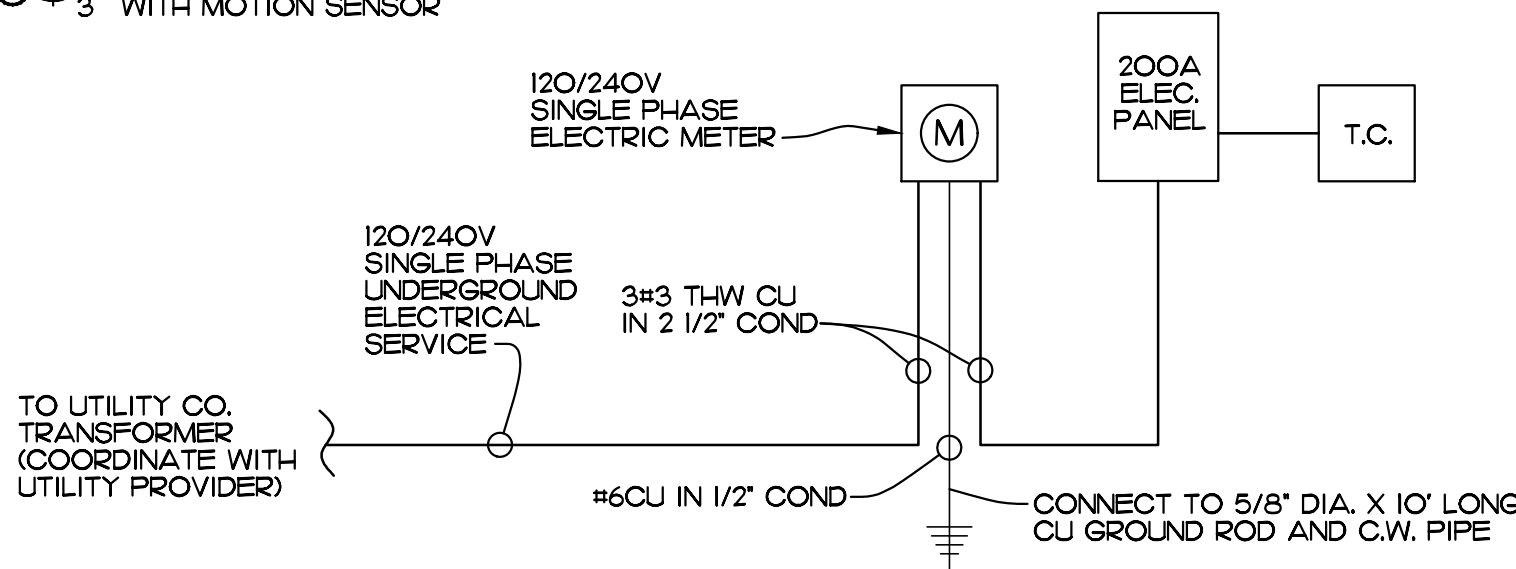


MECHANICAL/ELECTRICAL PLAN

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

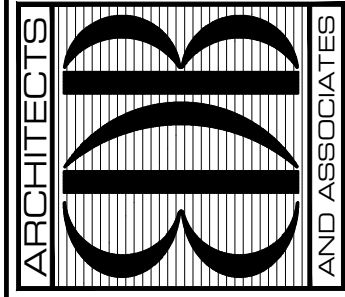
LEGEND:

- (S) SINGLE POLE SWITCH WITH MOTION SENSOR
- (C) RECESSED LED LIGHT
- (E) EMERGENCY LIGHT W/BATTERY BACKUP
- (P) SPECIAL PURPOSE OUTLET
- (E) ELECTRICAL PANEL
- (O) 110 VOLT OUTLET
- (M) 1Ø 120/240V ELECTRIC METER
- (S) 3 WAY SWITCH WITH MOTION SENSOR
- (GFI) GROUND FAULT INTERRUPT
- (O) 1X4 SURFACE MOUNTED LED LIGHT FIXTURE
- (E) 300 CFM EXHAUST FAN
- (T.C.) TIME CLOCK



POWER RISER DIAGRAM

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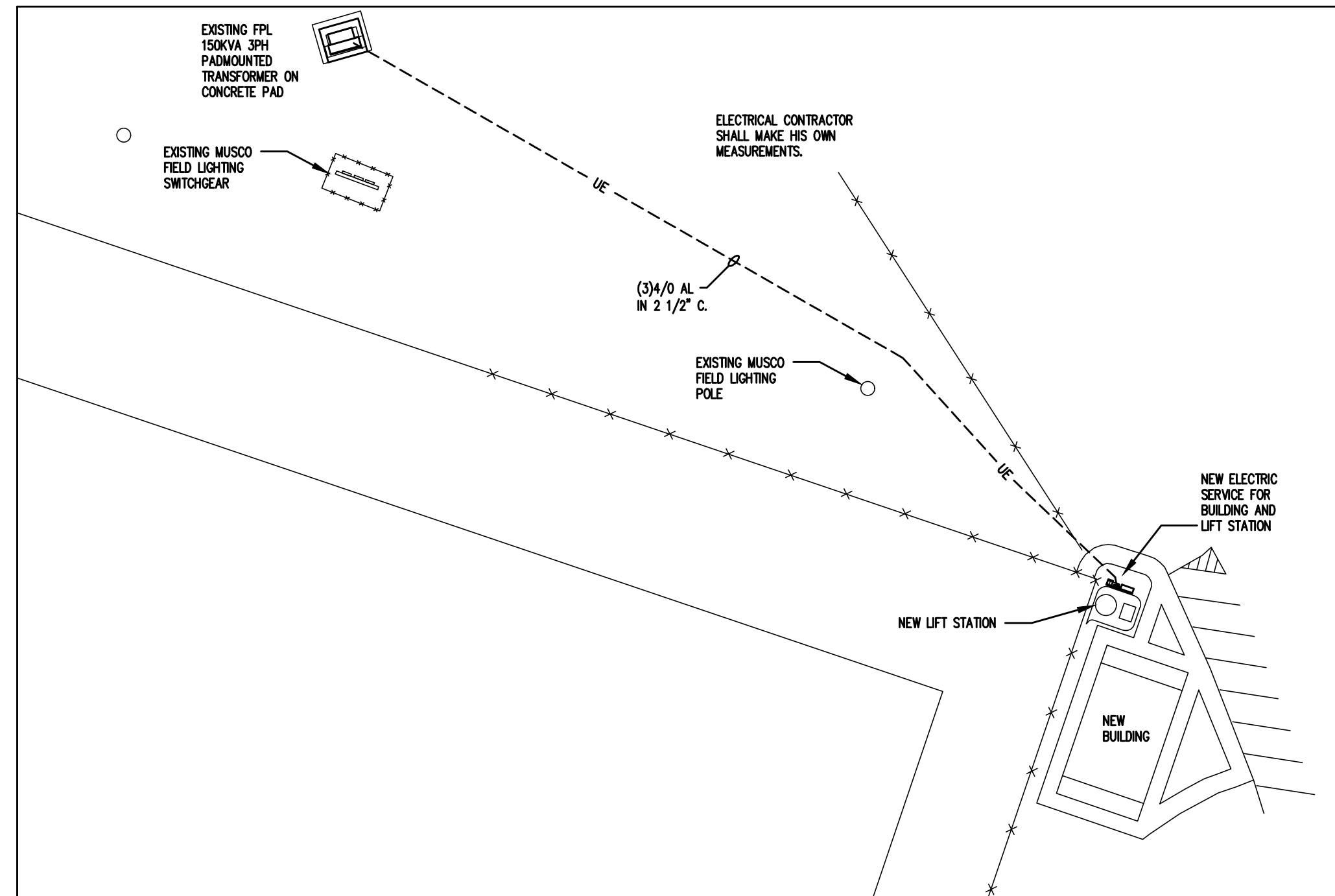
NO.	DATE	REVISIONS

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COMM. NO: 010423VB
DATE: AUGUST 1, 2023
BY: LJD
CHKD: JFB

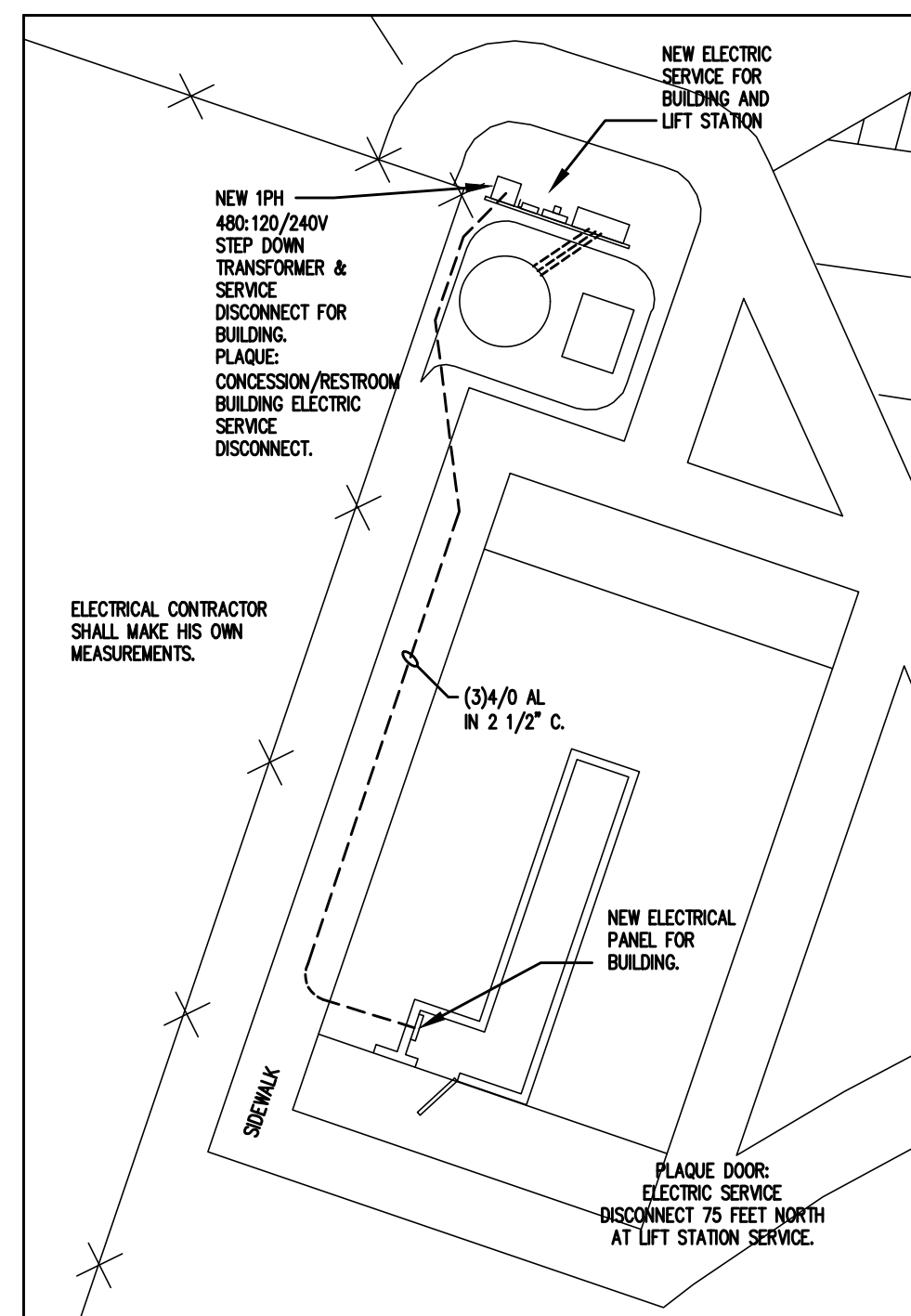
SHEET NO.
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OF ONE

								APP
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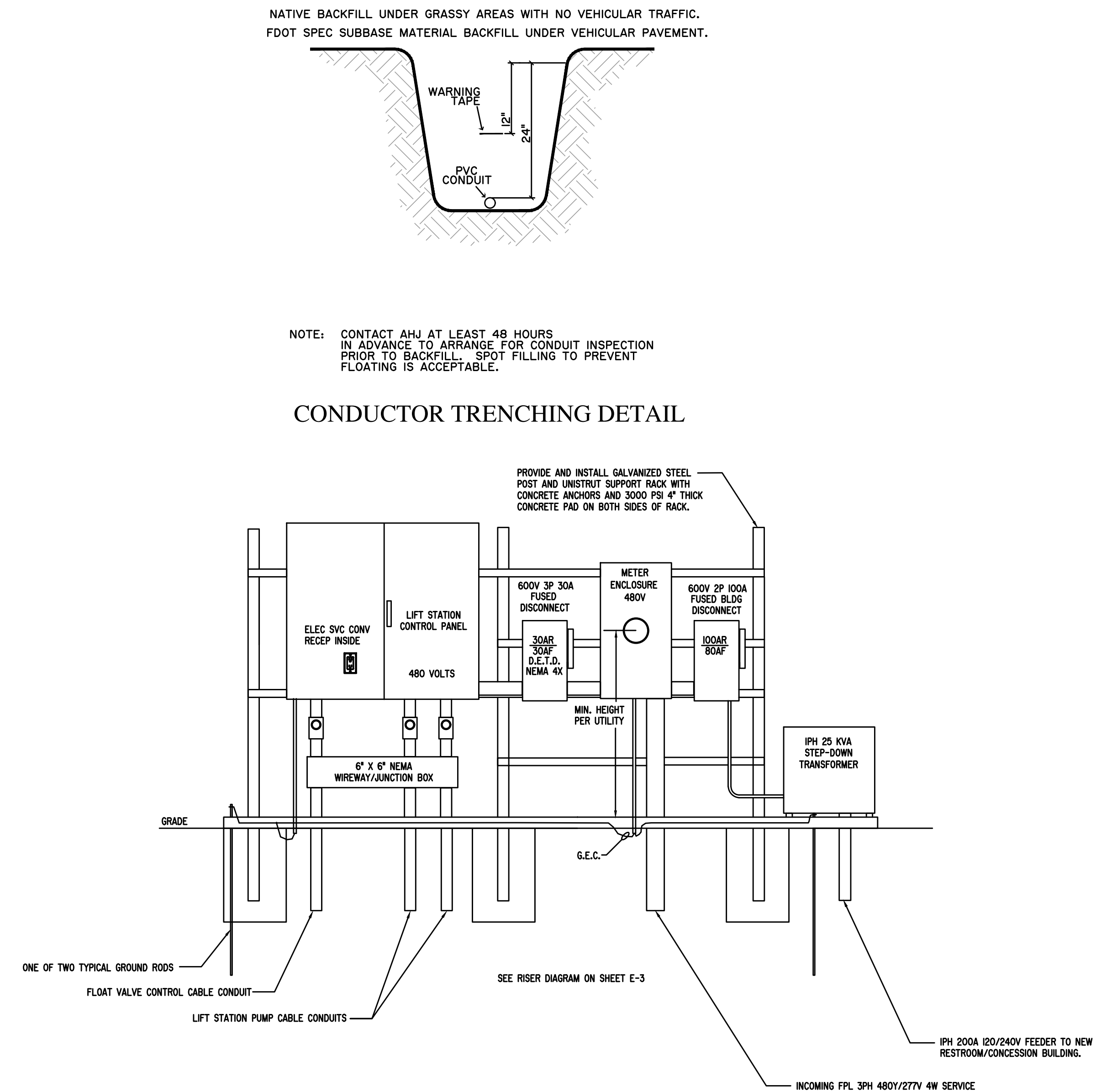
ELECTRICAL SITE PLAN - UG SERVICE LATERAL

SCALE 1" = 40'-0"



ELECTRICAL SITE PLAN - UG BLDG PANEL FEEDER

SCALE 1" = 20'-0"



ELECTRICAL SERVICE DETAIL

SEE SHOP DRAWING & CUT SHEET DIMENSIONS

[illegible]

Electrical
Engineering
of Fort Pierce, Inc
Registry No. 36383
604 Boston Avenue
Fort Pierce, FL. 34950
Phone: 772 882-9021

PROJECT LOCATION: VICTOR HART SR PARK 4715 43RD AVENUE VERO BEACH, FLORIDA	CLIENT: MASTELLER & MOIER, INC. 1655 27TH STREET, SUITE 2 VERO BEACH, FLORIDA 32960
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ENGINEER SEAL

BID SET

Timothy C. Trewyn, PE
P.E. No. 61580

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SHEET TITLE

**ELECTRICAL
SITE PLAN**

DUPLICATE DATE: 03-25-2024

AWN: TCT

PROVED: TCT

DRAWING NUMBER

E-2

SHEET 2 OF 4

24717-02

1. THE CONTROL PANEL SHALL CONSIST OF A MAIN CIRCUIT BREAKER AND GENERATOR BREAKER WITH MECHANICAL INTERLOCK, AN EMERGENCY GENERATOR RECEPTACLE, A MOTOR CONTROL BREAKER (MCB) AND MAGNETIC STARTER FOR EACH PUMP MOTOR, AND 3 POLE, 20 AMPERE, 480 VOLT, CIRCUIT BREAKERS AS REQUIRED.

3. A LOW AND HIGH LEVEL ALARM AND PUMP SHUTOFF SHALL BE ACCOMPLISHED BY A FLOAT SWITCH TYPE, LIQUID LEVEL CONTROL SYSTEM, WITH ALL COMPONENTS MOUNTED IN ONE COMMON ENCLOSURE.

5. A FLOAT TYPE LIQUID LEVEL CONTROL SYSTEM SHALL CONTINUOUSLY MONITOR WET WELL LIQUID LEVEL AND CONTROL OPERATION OF THE LOW-LEVEL CUTOFF FOR THE PUMPS, AND SHALL OPERATE ON A 24 VOLT CIRCUIT.

7. AN APPROVED CONTROL PANEL MANUFACTURER IS:

8. THE ELECTRICAL CONTROL EQUIPMENT SHALL BE MOUNTED WITHIN A MODIFIED NEMA 4X, UL RATED, WHITE POWDER COATED STAINLESS STEEL (316), DEAD FRONT ENCLOSURE. THE ENCLOSURE SHALL BE EQUIPPED WITH A DOOR AND MAY INCORPORATE A REMOVABLE BACK PANEL ON WHICH CONTROL COMPONENTS SHALL BE MOUNTED. BACK PANEL SHALL BE SECURED TO ENCLOSURE WITH COLLAR STUDS. ALL LINES ENTERING THE ENCLOSURE SHALL BE PROTECTED BY CONDUIT SEAL BUSHINGS AT THE SOURCE AND SHALL BE BEHIND THE DEAD FRONT ENCLOSURE, ENTERING FROM THE SIDE OR BOTTOM ONLY. THE SEALS SHALL PREVENT MOISTURE AND GAS FROM ENTERING THE ENCLOSURE. TWO CABLE CONNECTORS SHALL BE PROVIDED TO TERMINATE THE MOTOR CABLES IN THE CONTROL PANEL. THE CONNECTORS SHALL BE SUITABLE FOR A 2" CONDUIT WITH A SEAL BUSHING SUITABLE FOR THE MOTOR CABLES.

IO. A NRTL LISTED THERMAL-MAGNETIC AIR CIRCUIT BREAKER, SHALL BE FURNISHED FOR THE MAIN BREAKER. THE MANUFACTURER SHALL SEAL ALL CIRCUIT BREAKERS AFTER CALIBRATION TO PREVENT TAMPERING. A MOTOR CONTROL BREAKER (MCB) SHALL BE PROVIDED FOR EACH MOTOR STARTER. EACH MCB SHALL BE ADEQUATELY SIZED TO MEET THE PUMP MOTOR AND STATION OPERATING CONDITIONS.

12. AN EMERGENCY GENERATOR RECEPTACLE (EGR) SHALL BE INSTALLED IN THE SIDE OF THE CONTROL PANEL AND CONNECTED TO THE LINE SIDE OF THE GENERATOR BREAKER.

14. THE CONTROL PANEL SHALL INCLUDE AN ADJUSTABLE TIME DELAY RELAY TO PREVENT BOTH PUMPS FROM STARTING SIMULTANEOUSLY. TIME DELAY RELAYS SHALL BE ELECTRONIC TYPE.

16. PUMP MODE SELECTOR SWITCHES SHALL BE HAND-OFF-AUTO TYPE TO PERMIT OVERRIDE OF AUTOMATIC LEVEL CONTROL AND MANUAL ACTUATION OF SHUTDOWN OF EITHER PUMP MOTOR. OPERATION OF PUMPS IN MANUAL MODE SHALL BYPASS ALL SAFETY SHUTDOWN CIRCUITS EXCEPT PUMP MOTOR OVERLOAD SHUTDOWN. SWITCHES SHALL BE OIL-TIGHT, PROVIDING THREE SWITCH POSITIONS, EACH OF WHICH SHALL BE CLEARLY LABELED ACCORDING TO FUNCTION.

18. A SIX DIGIT, NON-RESET ELAPSED TIME METER SHALL BE CONNECTED TO EACH MOTOR STARTER TO INDICATE THE TOTAL RUNNING TIME OF EACH PUMP IN "HOURS"AND "TENTH OF HOURS."

20. PANEL SHALL BE EQUIPPED WITH AN ALARM STROBE AND ALARM HORN. SEE DETAILS.

21. ALL COMPONENTS SHALL COMPLY WITH THE APPROVED PARTS LIST OF THE INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES.

22. A STATION REMOTE TELEMETRY SYSTEM IS NOT REQUIRED.

23. CONTRACTOR SHALL PROVIDE THIS ENGINEER WITH SHOP DRAWINGS PRIOR TO ORDERING PANEL COMPONENTS AND CONSTRUCTION.



IMPORTANT NOTE: SEE SHEET E-3 FOR REQUIRED LOCATION OF INPUT POWER KNOCKOUT. ADJUST CABINET SIZE AND INTERIOR LAYOUT AS REQUIRED.

[illegible]