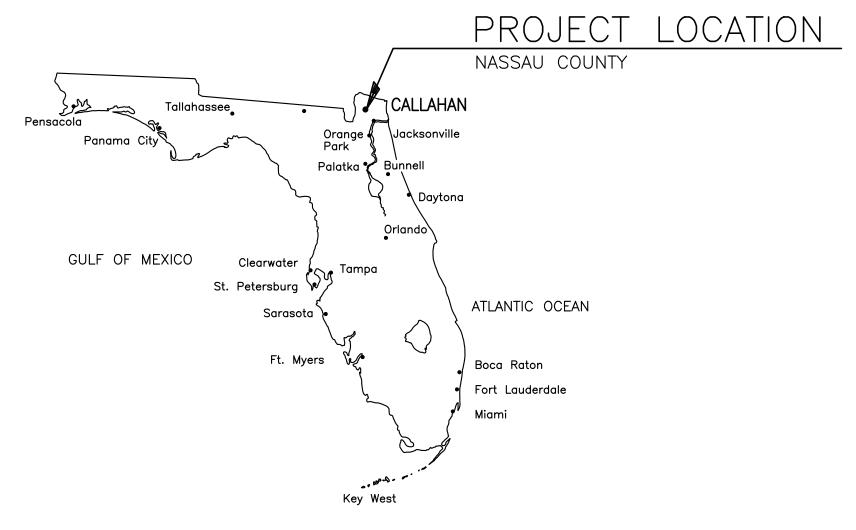
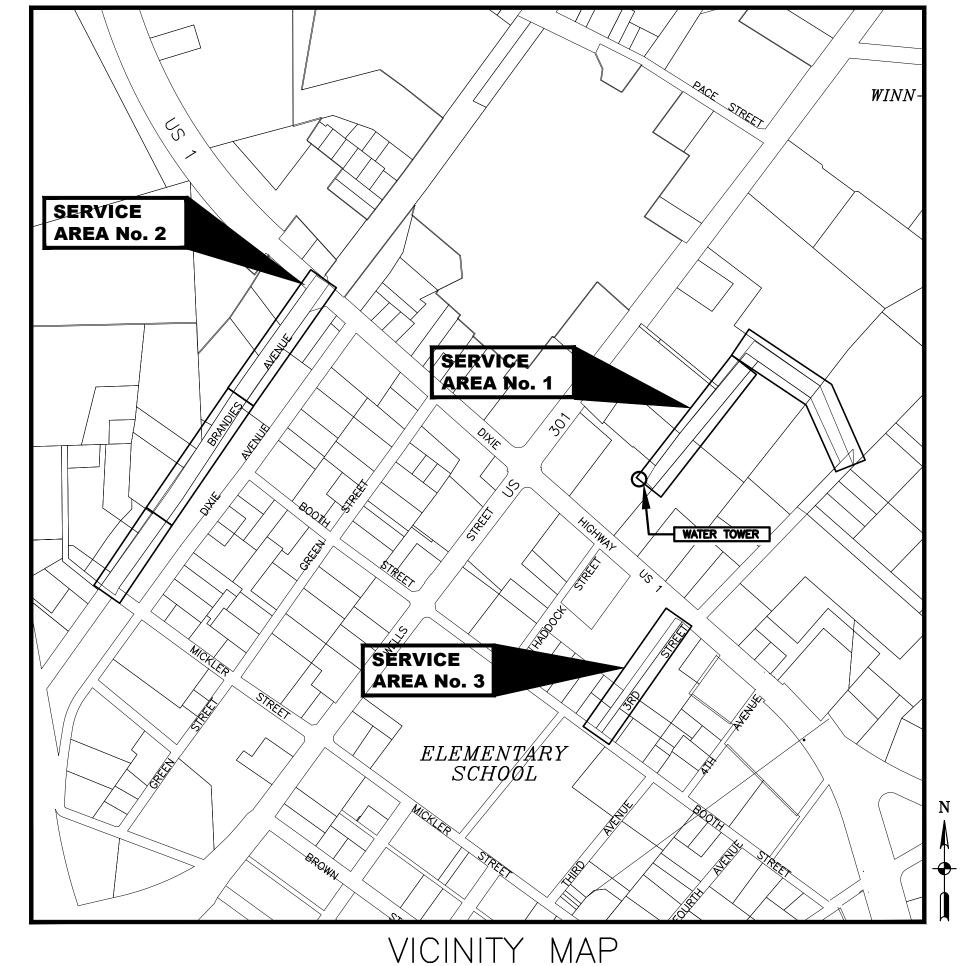
CDBG 20 NR WATER MAIN REPLACEMENT & EXTENSIONS

FOR

TOWN OF CALLAHAN, FLORIDA

CDBG Contract No. 20DB-00-04-55-02-N06 M & A Project No. 0302-31-1







MATTHEW DAVIS
MAYOR

JOHN K. BASS COUNCIL PRESIDENT

ASHTON BISHOP-VARGAS
COUNCIL MEMBER

JACQUELYN FLEMING
COUNCIL MEMBER

DAVID MELLECKER
COUNCIL MEMBER

JANET SHAW
COUNCIL MEMBER

STEPHANIE KNAGGE
TOWN CLERK

MICHAEL WILLIAMS
PUBLIC WORKS DIRECTOR

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BID SET

10/21/21

It shall be the sole responsibility of the Contractor to locate and avoid all utilities, structures, and obstructions both above and below the ground surface. All damages resulting from the Contractor's failure to comply with this requirement shall be repaired at the

Contractor is responsible for supporting/protecting & maintaining all existing improvements (i.e., utilities, utility poles, structures, pavement, sidewalks, monitoring wells, foundations, etc.) which may be damaged/undermined or interrupted as a result of his operations. The Contractor shall immediately notify the Engineer of any such occurrences. The Contractor may be required to shore, sheet, brace, or support work to protect existing improvements. The Contractor shall maintain a minimum of 5 feet of undisturbed soil around all power poles. Where edge of utility trench would be closer than 5 feet from poles, Contractor shall be required to sheet around pole to maintain 5 feet of undisturbed soil. Where 5 feet of undisturbed soil cannot be maintained, Contractor shall make arrangements with power company to have poles held/braced. All costs associated with supporting/protecting existing improvements shall be borne by the Contractor.

All existing facilities (e.g., pipes, roadways, sidewalks, landscaping, structure, etc.) not indicated to be disturbed/restored which are disturbed/damaged as a result of the Contractor's operations shall be restored to a condition equal to or better than that which existed prior to construction, at Contractor's expense.

Horizontal and vertical controls are subject to adjustments in the field if necessary to avoid utility conflicts upon approval of the Engineer or his representative. Contractor shall not adjust location of pipe or other facilities (either vertically or horizontally) without

6. Contractor shall provide constant slope between indicated pipe invert elevations, unless otherwise directed by Engineer.

Contractor shall not remove any trees of 4-inch diameter or larger without Engineer's approval. Adjustment of pipe location to avoid trees shall be subject to approval of the Engineer. The Engineer makes no claim that any tree will survive construction of the

. The Contractor shall at all times conduct his operations so as to interfere as little as possible with the existing facilities. The Contractor shall develop a program in cooperation with the Owner's operating staff which shall provide for the construction of an putting into service the proposed work in the most orderly manner possible. All work of connection with, cutting into and reconstruction of existing facilities shall be planned so as not to interfere with the existing facility.

9. The Contractor shall provide all traffic control measures necessary to perform the work at his expense. Traffic control shall be in accordance with governing local, state, and federal agencies, including the MUTCD latest edition.

10. Contractor shall provide all fill required to achieve proposed grades at his expense.

11. All pipe shall be properly restrained using mechanical type joint restrainers (see specifications). No thrust blocking will be allowed unless specifically indicated on drawings or directed by Engineer. All exterior exposed piping, fittings and tubing 3" in diameter and smaller shall be freeze protected with 3/4" thick elastomeric thermal insulation with UV resistant coating.

12. All aboveground piping shall be properly supported and/or secured to tanks, buildings, or other structures using SS straps and

13. All pipe shall have the following minimum cover, unless otherwise directed by Engineer: Water Service Pipe 30-inches cover at edge of curb

PVC (<3-inch) 30-inches PVC (>3-inch) 36-inches DIP (all sizes) 36-inches Steel (all sizes) 36-inches RCP (all sizes) 12-inches Corrugated Plastic 24-inches

14. Warning tape and tracer wire shall be installed along all water mains, laterals, and force mains, in accordance with the specifications

15. Contractor shall apply for and obtain FDEP Generic Permit for Large and Small Construction Activities (CGP). The Contractor shall act as the Operator of all temporary construction phase pollution prevention improvements and be responsible for their design, selection,

16. During any construction activity, including stabilization and revegetation of disturbed surfaces, the Contractor is responsible for the design, selection, permitting, implementation, and operation of all temporary construction phase erosion and sediment control measures required to retain on-site sediment and prevent violations of the State of Florida water quality standards. The Contractor shall use appropriate best management practices described in the State of Florida Erosion and Sediment Control Designer and Reviewer Manual. July 2013, with revisions. All turbidity/silt barriers must be in place downgradient from the construction zone prior to the start of any construction activity in general accordance with the plans and details provided in these documents. The barriers shall remain in place until all the disturbed areas have been properly stabilized.

17. Maintenance and Operation of the Surface Water Management System: Upon completion of construction of the project, the Contractor shall remove accumulated sediment from the stormwater system resulting from his operations.

18. Unsuitable materials exposed during construction under utility pipes or structures shall be removed and replaced with selected backfill, properly compacted, in accordance with specifications.

19. Compaction: Unless otherwise noted, the required percentage of maximum compaction shall be as follows; (per modified proctor max. dry density, ASTM D 1557)

Pipe Embedment > 98% Above Pipe Embedment − Paved Areas ≥ 98% Above Pipe Embedment - Non-Paved Areas ≥ 90% Under Structures and Slabs ≥ 98% All other Areas > 90%

When moisture content of soils do not allow required densities to be achieved, Contractor shall employ "bes management practices" to achieve equivalent density, subject to Engineer's approval.

20. The minimum compaction testing of fill/backfill and existing soils shall be the more stringent requirements described in the contract documents for this project, or governing agency. The minimum density testing frequency shall be as follows:

For existing soils and each lift of fill:

(1) test per 2,500 s.f. of building area) test per 5,000 s.f. of paved area (1) test per 10,000 s.f. all other areas

After placement of each lift of fill and/or excavation to bearing level soils shall be further tested as follows: (1) test per 100 l.f. of continuous footing

) test for 25% of all isolated footings) test per 300 If of utility pipe (1) test per utility structure

Engineer or his representative shall approve location of density tests.

21. Where existing culverts must be removed to construct the project, the Contractor shall reinstall the culverts as soon as practical. I the culverts are not suitable for reuse, the Contractor shall, at his expense, extend/replace the culverts as required with similar materials to accommodate the work while maintaining existing invert elevations for all extended/replaced culverts. Provide all required excavation and fill necessary to extend/replace the culvert. The Contractor shall ensure, at his expense, temporary measures are provided to maintain existing drainage patterns.

22. The Contractor shall temporally relocate the postal mail boxes and clusters as required for the construction of the project and reinstall them in their original locations upon completion of the construction. All work associated with the mail boxes or clusters shall be in accordance with the requirements of the U.S. Post Masters Office.

23. Only that excavation that can be backfilled by the end of the work day will be excavated. No open trench will be allowed to remain after work ends for the day, unless approved by Engineer or governing authority.

24. All grassed areas disturbed by construction shall be regrassed in accordance with specifications.

25. Until final acceptance of the work by the Owner, it shall be under the charge and custody of the Contractor and he shall take every precaution against injury or damage to the work by the action of the elements or from any other cause whatsoever, arising either from the execution or from the non-execution of the work. The Contractor shall rebuild, repair, restore and make good without any additional compensation, all injury or damage to any portion of the work occasioned by any of the above causes before its completion

26. The Contractor shall employ the services of a Florida licensed surveyor who shall be responsible for laying out the work and for establishing the following: project temporary benchmarks; elevation lines and grades; and right—of—way and easement limits for construction. Contractor shall also employ the services of a Florida licensed surveyor to obtain the required record drawing

27. The Contractor shall employ a land surveyor, registered in the State of Florida, to reference property and restore property corners and land markers which may be disturbed as a result of Contractor's operations.

28. Project Benchmark: Project Benchmark: All elevations on these plans are relative to the North American Vertical Datum of 1988 (NAVD 88) based on National Geodetic Survey Benchmark PID AB4012 having an elevation of 18.43 feet. See Sheet No. 3 for location

29. Topographic information based on a survey by Mittauer & Associates, Inc., Job No. 0302-31-1.

GENERAL WATER SYSTEM NOTES

1. All water line work shall be in accordance with FAC 62-555, Permitting and Construction of Public Water Systems. All materials that come in contact with drinking water shall be in conformance with ANSI/NSF International Standard 61 and shall be installed in accordance with applicable AWWA Standards and/or the manufacturer's recommendations.

2. The Contractor shall coordinate the construction of the water facilities with all other construction. The Contractor shall verify the location and elevation of the proposed water main connection(s) prior to commencing work. It shall be the Contractor's responsibility to notify the Owner and the Engineer of any discrepancies.

3. Water lines are designed to finished grade and shall be protected until finished work is complete.

4. All workmanship and materials associated with water mains shall conform to the latest standards and specifications of the local utility company.

5. Refer to specification section 02510 3.03 for separation requirements between potable water mains and other utilities.

6. All existing water main valves which are made inactive as the result of this project shall have their valve boxes removed and the disturbed roadway or grassed area restored. Valve boxes which are in paved greas shall have the cover removed and the section shall be filled with asphalt or flowable fill with the surface painted to match the surrounding pavement.

The location of water services on the plans are approximate. Actual location of services shall be determined in the field by location of existing water lines and as directed by the Engineer and the Owner.

8. No connection to the existing potable water system shall be allowed until all proposed water lines have been pressure tested disinfected and cleared for service. Pressure testing shall be in accordance with AWWA C600 for DI mains or AWWA C605 for PVC mains. All water lines shall be disinfected in accordance with AWWA C651 and DEP requirements. As a minimum, successful bacteriological test shall be performed on two consecutive days at the point of tie-in, at junctions, along the water line route at <1.200' spacing, and at the terminal end of the line extension.

9. Existing Water Meters shall be disconnected from the existing water system and reconnected to the newly installed service lines after the new water system is cleared for service. The Contractor is responsible for locating and connecting all existing water C. PAVEMENT STRIPING AND SIGNAGE NOTES

1. Unless otherwise noted on the drawings, all existing signs (public or private) removed by the construction activity, shall be restored to their original position prior to completion of the project. Any signs damaged during construction shall be replaced at the Contractors expense.

2. All signs and pavement markings shall conform to the Manual on Uniform Traffic Control Devices (MUTCD) and the Florida Department of sportation Roadway and Traffic Design Standards, latest editions.

3. All pavement striping within Right-of-Way or easements, as well as all stop bars, crosswalks, messages and directional arrows (regardless of location) shall be lead free, thermoplastic paint (FDOT spec. section 711). All other striping shall be reflective paint (FDOT spec. section 710) unless noted otherwise on the drawings.

4. All sign posts shall be installed plumb

D. <u>FDOT GENERAL NOTES</u>

1. All work performed within the Florida Department of Transportation Right-of-Way shall conform to the most current edition of the following publications:
• Standard Specifications for Road and Bridge Construction. • FDOT Design Standards.

FDOT Plans Prep Manual.
FDOT Flexible Pavement Design Manual for new construction and pavement rehabilitation.

2. Should a conflict arise between the details shown in the plans and the Department of Transportation Standards, the Engineer/Permittee shall immediately confer with the Department's Engineer in order to resolve the discrepancy. In no case will anything less than the Department's minimum standard be allowed.

3. All traffic striping and markings are to be lead-free, non-solvent based thermoplastic.

4. Removal of existing striping shall be accomplished by using the "hydro-blast" method. if this process damages/scars the pavement, then pavement shall be milled and resurfaced per FDOT standards.

5. All curb and gutter and sidewalk will be removed and replaced joint to joint.

6. All disturbed areas within the Department of Transportation Right-of-Way will be restored to original or better condition by grading

and sodding the area disturbed (Bermuda in rural, Centipede in utility strips).

8. Burning of any material or debris prohibited in the FDOT right-of-way.

7. All broken/cracked driveways must be fully removed and replaced

9. All lanes must be opened for traffic during an evacuation notice of a hurricane or other catastrophic event and shall remain open

10. All direction arrows shall be placed as one segment.

for the duration of the evacuation or event

11. Alignment of proposed pavement markings shall match existing pavement markings at pavement marking limits of construction.

12. Contractor shall notify the FDOT 48 hours prior to starting any work within the FDOT right-of-way.

E. GENERAL STRUCTURAL NOTES

1. All construction shall be in accordance with the local Building & Zoning Department requirements and the 2020 Florida Building Code (7th Edition) with all Revisions. All design shall be in accordance with the 2020 Florida Building Code (7th Edition) with all Revisions, ÀCI318, ACI350 and ASCE 7-16.

Roofs & Canopies 20 psf Collateral Load Storage Spaces Stairs & Walkways -

Dead Loads: Actual Material Weights

Design Load Bearing Value of Soil - 2,000 psf

Flood Zone: This project is located in Flood Zone X, as determined by a review of FEMA FIRM Map 12089C0304F, dated 12/17/2010

Windload Design Criteria

Items per Florida Building Code Section 1603.1.4: Basic Wind Speed: (Vult)= 122 MPH (Vasd)= 94.5 MPH Building Risk Category: Il Wind Exposure Category: Roof Slope: 4:12 Internal Pressure Coefficients: +/- 0.18 (enclosed) COMPONENT & CLADDING PRESSURE
WIND PRESSURE (PSF)
ZONE EFFECTIVE AREA (SF) POSITIVE NEGATIVE

2. All structural concrete shall have a min. compressive strength of 4,000 psi after 28 days unless otherwise noted.

3. All reinforcing steel shall conform to ASTM A615 Grade 60, except bars to be welded shall conform to ASTM A706.

4. For size and location of embedded items and openings, the Contractor must refer to mechanical, structural, piping and vendors drawings. 5. Equipment anchor bolts and rods shall be set from templates made to fit holes in equipment according to approved manufacturers shop drawings.

6. Contractor shall verify all dimensions and existing conditions at the site before proceeding with construction.

7. Unless otherwise shown on drawings, min. cover for reinforcing steel shall be as follows Concrete Cast Against Earth — 3" Slabs on Grade — Centered

All Other - 2" Note: 6 mil polyethylene membrane required under all building base slabs.

B. All reinforcing shall be fabricated and held securely in position with standard accessories in accordance with ACI 315 "Details and Detailing

Concrete Reinforcement", latest edition. 9. Splices in reinforcing, where permitted, shall be as noted, or as follows:

9.1. Welded Wire Fabric - Two Mesh or 12" (min.) 9.2. Temperature Reinforcing - Not less than 12"

9.3. All Other Bars — Class "B" lap. 9.3.1. For Top Bars (12" or more concrete below steel) multiply table lengths by 1.3

9.3.2. For lightweight concrete multiply table lengths by 1.3.

10. Splices in beam top reinforcing shall be made at midspan, bottom reinforcing at support, or as noted on drawings 11. Provide 3/4" chamfer on all exposed edges of concrete.

12. Provide 1/2" premolded expansion joint material where slab on grade is cast around columns or against walls.

13. All masonry shall utilize standard precast masonry units and be laid true and plumb.

14. Compaction: unless otherwise noted, the required percentage of maximum compaction shall be as follows: (per modified proctor max. Dry density) Under Structures and Slabs - 95%

Under Paved Areas (below 12") - 95% Landscaped Areas and Other - 90% Adjacent to Walls and Above Footing - 92%

The more stringent requirement shall govern between any conflict of these compaction requirements & those listed within the specifications. 15. Galvanic Protection: Provide neoprene or ROF bearing pad between different metals and or metal set against concrete

16. Location of construction joints, proposed by the Contractor, shall be submitted to the Engineer for approval prior to initiating any construction or fabrication which could be affected by the location. All construction joints below either the plant liquid or ground level shall incorporate a properly designed and fabricated PVC waterstop.

17. All structural anchoring systems shall be hot—dipped galvanized.

Under Paved Areas (subgrade) - 98%

ABBREVIATIONS

FINISHED WATER

FACE TO FACE

ABBREVIATION

DESCRIPTION

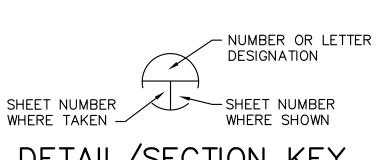
PRESSURE REDUCING VALVE

POLINDS PER SOLIARE FOOT

PUMP STATION

<u>ABBREVIATION</u>





LEGEND

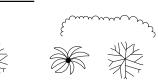
CO CONC CONT COORD PROPOSED **EXISTING** CPLG ——6**"**w —— ---6"W-------VALVE DEMO ---8"SAN---SANITARY SEWER SANITARY FORCE MAIN (**()**> FIRE HYDRANT WATER SERVICE ____ 63 ____ — — 6.3 — — GRADE CONTOURS 63.00 SPOT ELEVATIONS **EMER** EPDM ERCP MANHOLE POWER POLE / W/ANCHOR ----OHF---OVERHEAD ELECTRIC BURIED TELEPHONE FIBER OPTIC CABLE

FLAT BAR FLOOR DRAIN **FOUNDATION** FINISH FLOOR FIRE HYDRANT ----CTV--- CABLE TELEVISION FIGURE FINISH(ED) FINISH GRADE FLANGED JOINT FLANGE(D) ---- RIGHT-OF-WAY FEET PER SECOND FEMALE PIPE THREAD FOOT OR FEET ROADWAY OR DRIVEWAY LIMITS OF WOODS

ABBREVIATION

ACRYLONITRILE BUTADIENE STYRENE

ASBESTOS CEMENT PIPE





LIMITS OF ASPHALT PAVEMENT RESTORATION

LIMITS OF CONCRETE DRIVEWAY/SIDEWALK RESTORATION

ASPHALT PAVEMENT ROADWAY STABILIZED ROAD

CONCRETE DRIVEWAY/SIDEWALK

LIMITS OF STABILIZED ROAD RESTORATION

LIMITS OF OVERLAY

		PROJECT CONTACTS		
<u>TYPE</u>	<u>ORGANIZATION</u>	<u>ADDRESS</u>	<u>TELEPHONE</u>	CONTACT PERSON
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION	838 ELLIS ROAD SOUTH JACKSONVILLE, FL 32205	(904) 360-5348	ESTHER MURRAY MAINTENANCE PERMITS COORDINATOR
ROADWAY	NASSAU COUNTY ROAD & BRIDGE DEPARTMENT	96161 NASSAU PLACE YULEE, FL 32097	(904) 530-6175	DAVID HEARN
ELECTRIC	OKEFENOKEE RURAL ELECTRIC	P.O. BOX 1229 HILLIARD, FL 32046	(800) 262-5131 Ext. 1158	KAYLEN GILL
ELECTRIC	FLORIDA POWER & LIGHT	2900 CATHERINE ST. PALATKA, FL 32177	(386) 586-6403	JOEL BRAY
COMMUNICATIONS	CENTURY LINK	1025 ELDORADO BLVD. BROOMFIELD, CO 80021	(877) 366-8244 EXT. 2	
COMMUNICATIONS	WINDSTREAM	929 MARTHAS WAY HIAWATHA, IA 5233	(800) 289-1901	
CABLE T.V.	COMCAST	2601 SW 145TH AVE. MIRAMAR, FL 33027	(754) 221-1254	LEONARD MAXWELL-NEWBOLD
WATER & SEWER	TOWN OF CALLAHAN	1908 SOUTH KING RD, CALLAHAN, FL 32011	(904) 838-8724	MICHAEL WILLIAMS PUBLIC WORKS DIRECTOR
OWNER	TOWN OF CALLAHAN	1908 SOUTH KING RD, CALLAHAN, FL 32011	(904) 819-3801	MICHAEL WILLIAMS TOWN MANAGER
DESIGN ENGINEER	MITTAUER & ASSOCIATES, INC.	580-1 WELLS RD. ORANGE PARK, FLORIDA 32073	(904) 278-0030	TIM NORMAN, P.E.

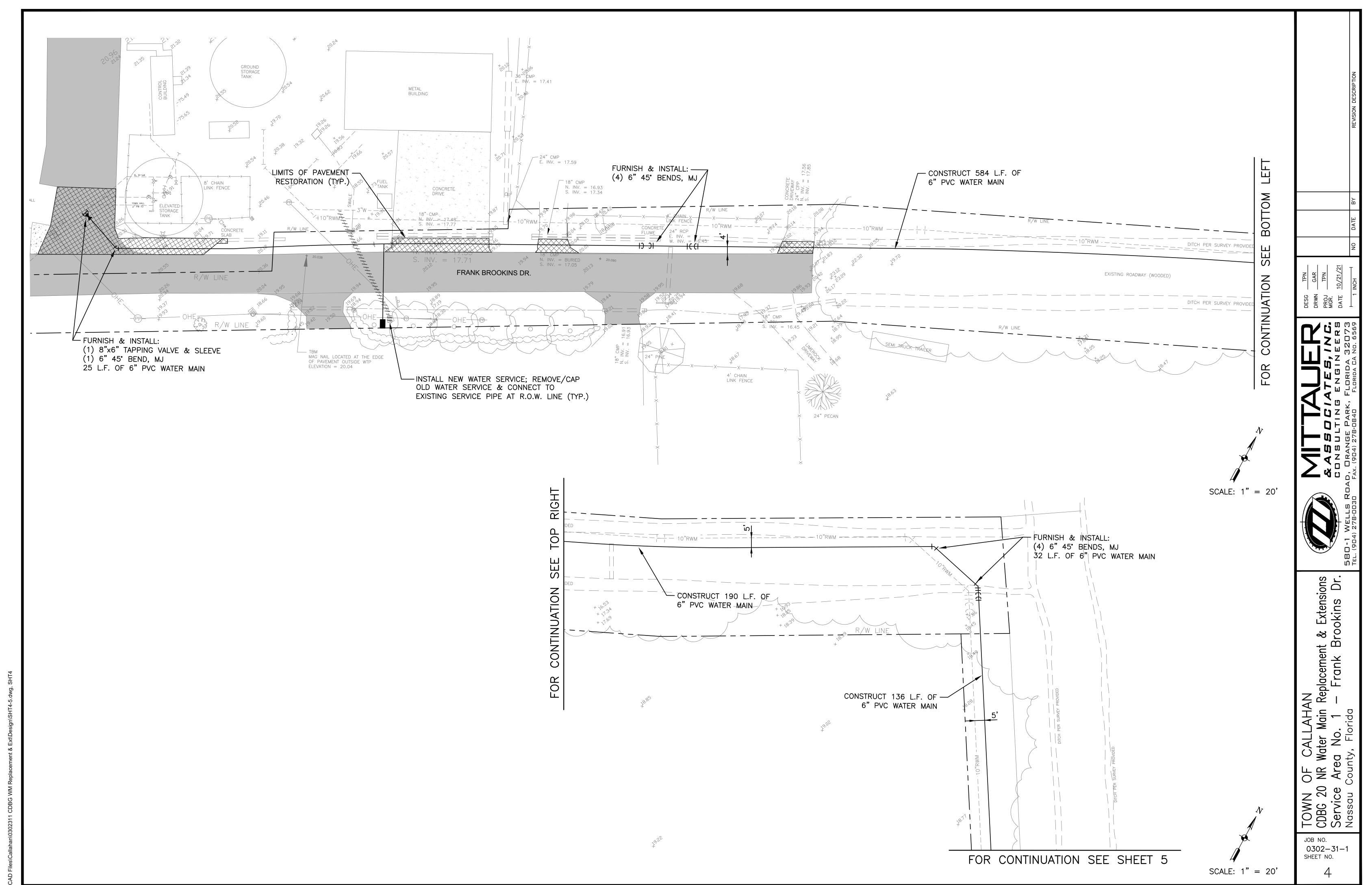


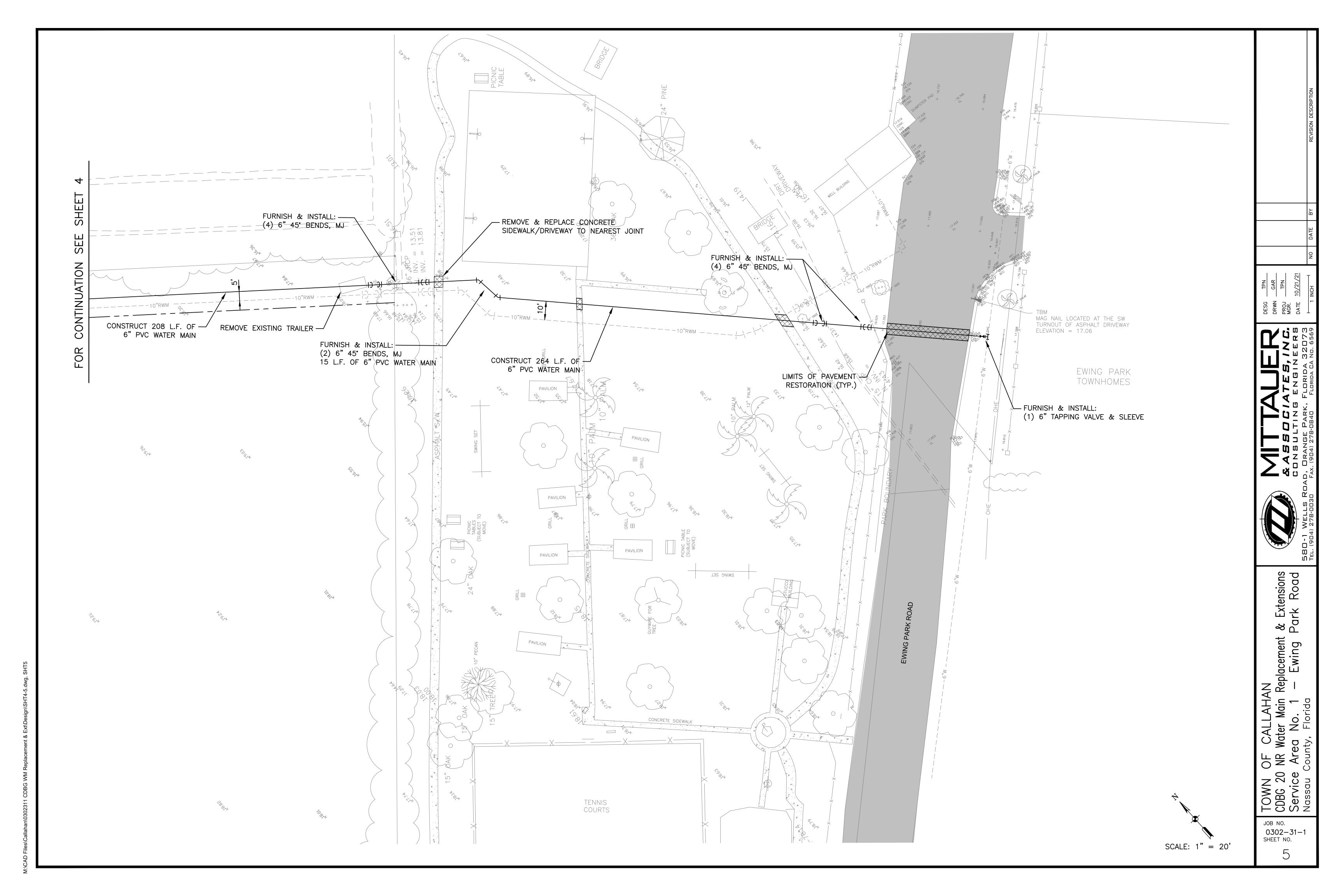
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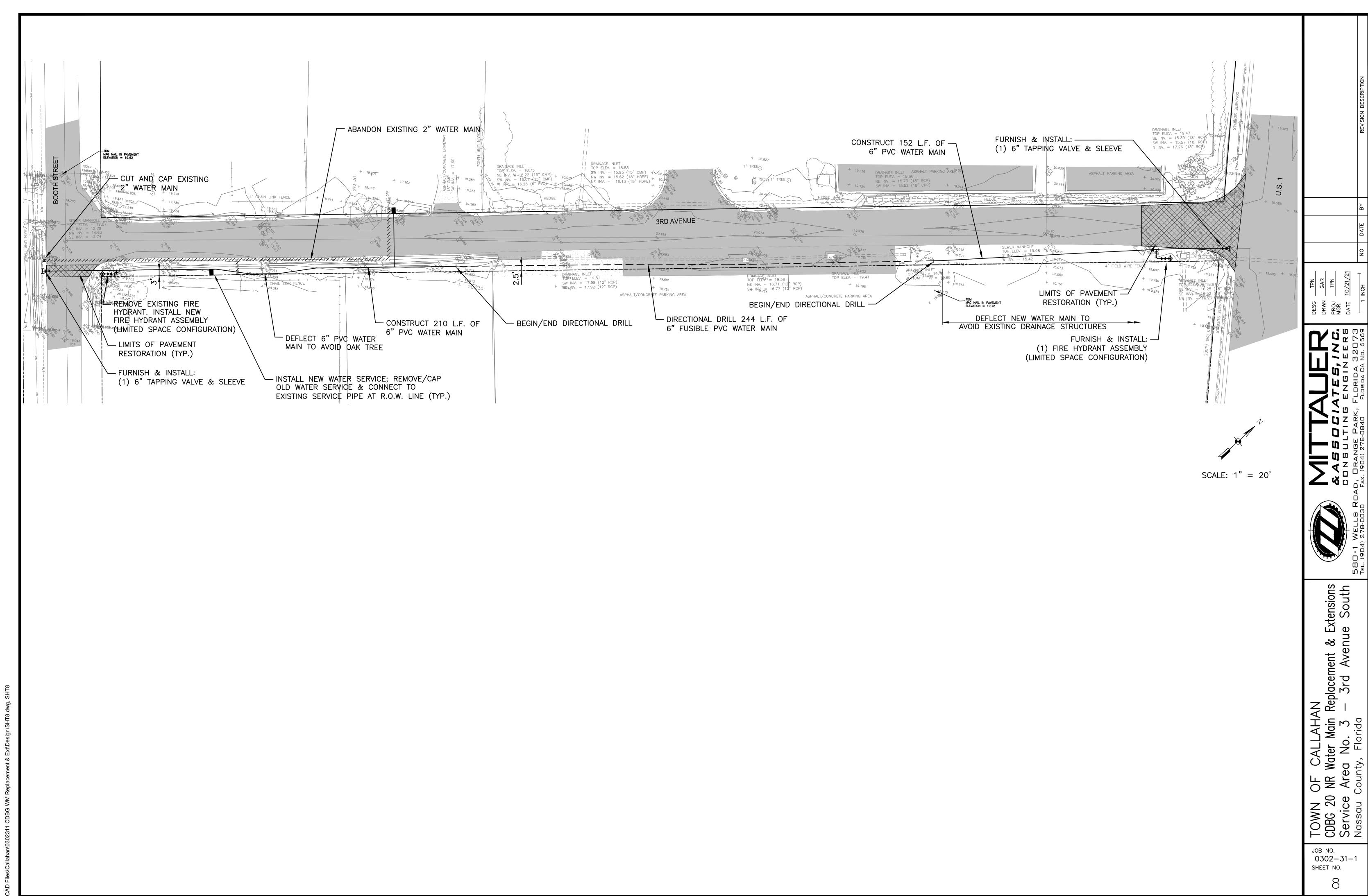
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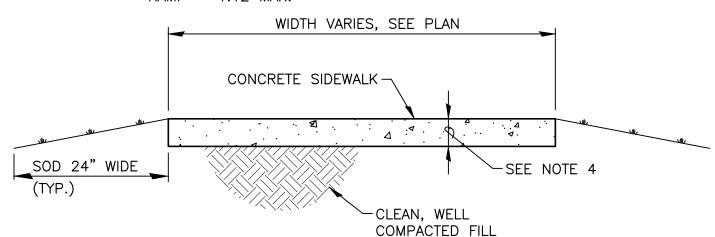




7 0 0 X Extensions Avenue



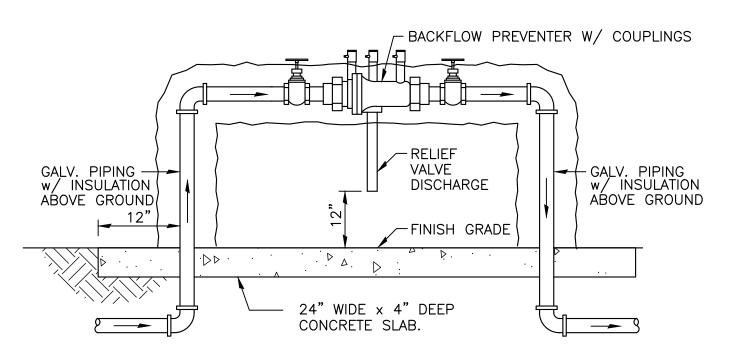
JOB NO. 0302-31-1



1. CONCRETE: 3,000 PSI

- 2. CONTROL JOINTS: 1 1/4"D SAWCUT @ 5'-0" O.C.
- 3. CONSTRUCTION JOINTS: 1/2" PREMOLDED JOINT MATERIAL AT 20'-0" O.C. 4. TYPICAL SIDEWALK SECTIONS SHALL BE 4" THICK AND UNREINFORCED. AT AREAS SUBJECT TO VEHICULAR TRAFFIC THICKEN SECTION TO 6" AND REINFORCE WITH 6x6, W2.9xW2.9 WWF.
 - TYPICAL SIDEWALK SECTION

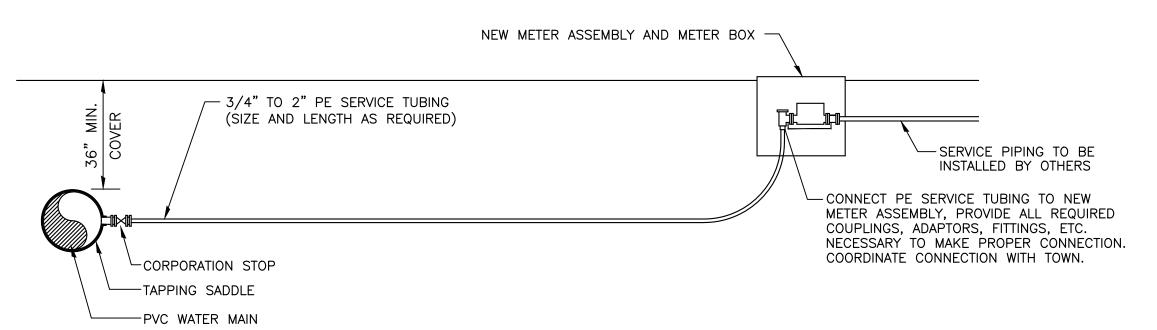
EXTEND THICKENED SECTION 2' BEYOND ACCESS DOOR OR AS SHOWN ON DRAWINGS.



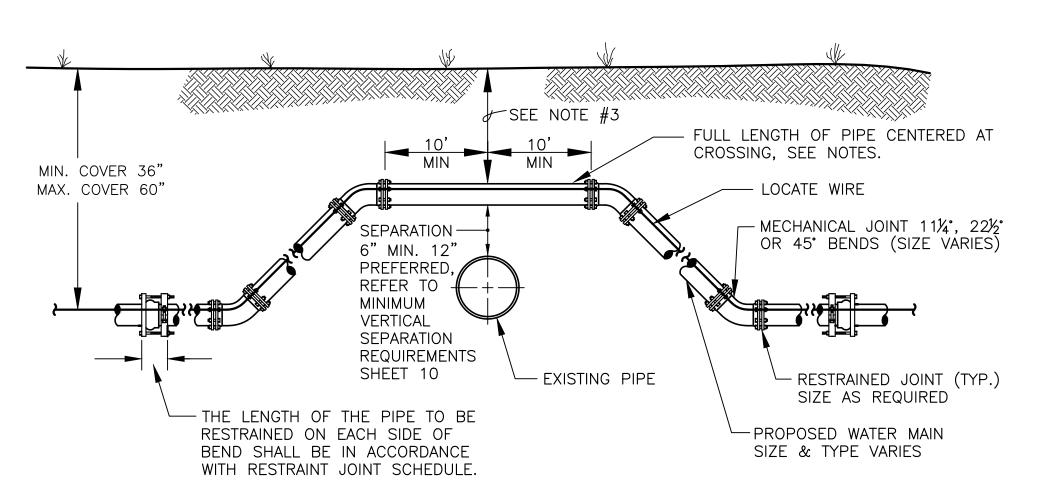
NOTE:
ALL ABOVE GROUND PIPING, FITTINGS, VALVES, ETC., ASSOCIATED WITH THE BACKFLOW PREVENTER SHALL BE FREEZE PROTECTED WITH INSULATION. INSULATION SHALL BE 3/4" THICK ELASTOMERIC THERMAL INSULATION WITH ALUMINUM OUTER COVERING. BYPASS METER, VALVE OPERATORS AND ALL TEST COCKS ON BACKFLOW PREVENTER SHALL BE EXTENDED BEYOND ALUMINUM OUTER COVERING FOR ANNUAL TESTING PURPOSES.

REDUCED PRESSURE ZONE BACKFLOW PREVENTER

LESS THAN 3" IN DIAMETER



WATER SERVICE DETAIL

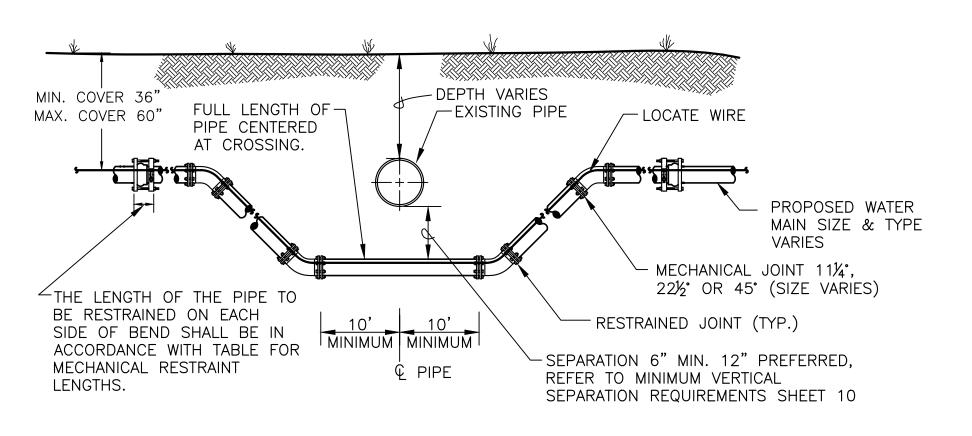


1. THE SOILS BETWEEN THE NEW MAIN AND THE EXISTING PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST. ASTM D

MINIMUM VERTICAL SEPARATION REQUIREMENTS MUST BE ACHIEVED.

3. IF UTILITY CONFLICT IS LOCATED IN A NON-TRAFFIC AREA (NO TRAFFIC LOADS) AND THE NEW PIPE IS D.I.P., THEN THE MINIMUM COVER MAY BE REDUCED TO 24 INCHES (ONLY IN THE AREA OF THE CONFLICT).

TYPE "A" CROSSING



NOTES:

1. THE SOILS BETWEEN THE NEW MAIN AND THE EXISTING PIPE SHALL BE COMPACTED

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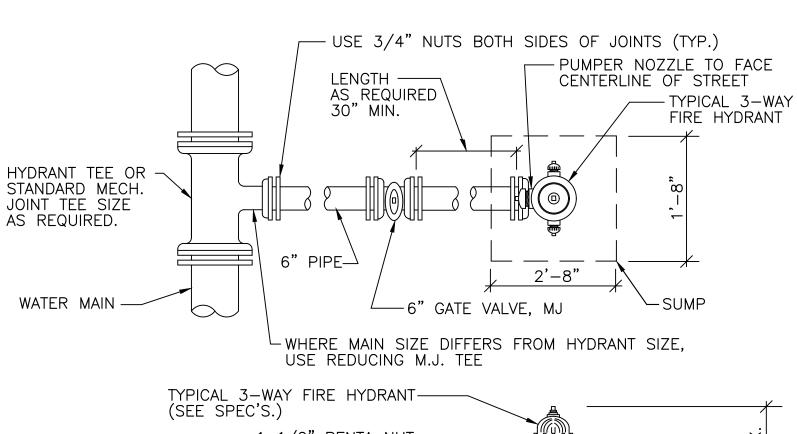
4. THE SHALL BE COMPACTED

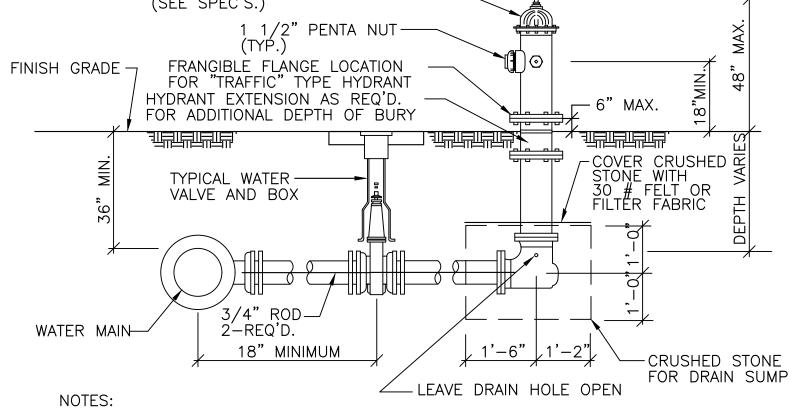
5. THE SHALL BE COMPACTED

6. THE SHALL BE PROCTOR TEST, ASTM D 1557

2. MINIMUM VERTICAL SEPARATION REQUIREMENTS MUST BE ACHIEVED.

TYPE "B" CROSSING

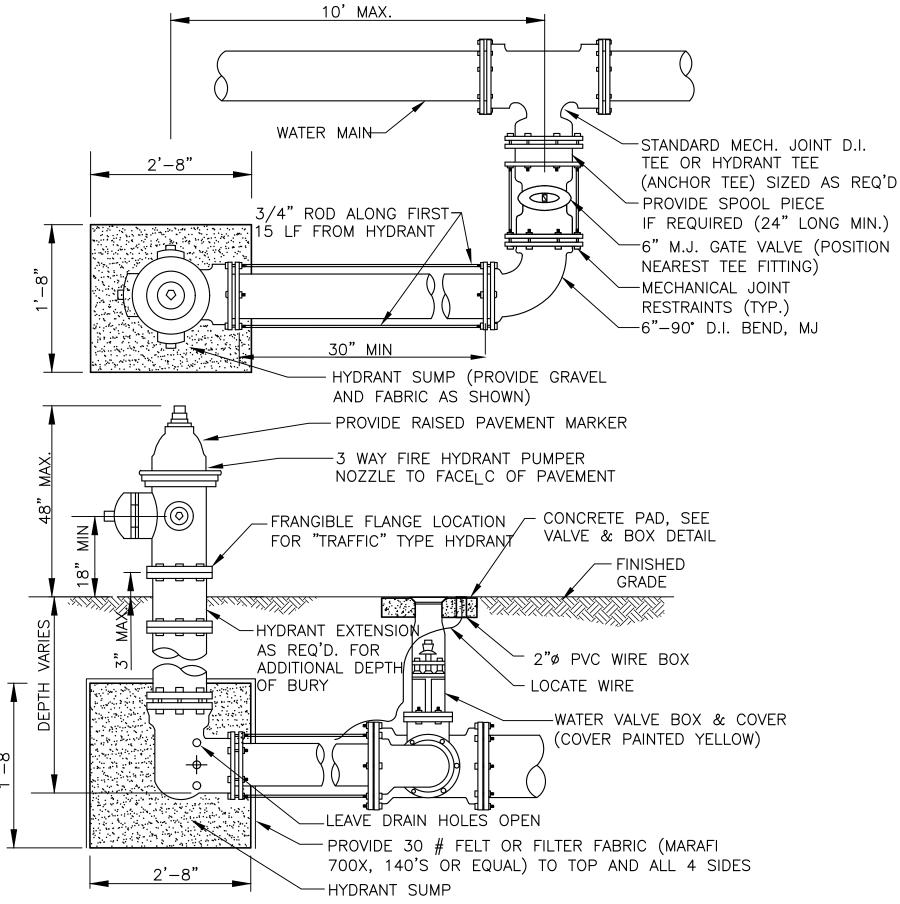




1. TIE RODS, NUTS, WASHERS AND OTHER FASTENERS SHALL BE ASTM A 246 CÓRROSIÓN RESISTANT STEEL, GALVANIZED OR TYPE 316 STAINLESS STEEL.

2. ALL PIPE, VALVES AND FITTINGS OF HYDRANT SHALL BE RESTRAINED.

TYPICAL FIRE HYDRANT INSTALLATION



TYPICAL FIRE HYDRANT LIMITED SPACE INSTALLATION

0302-31-1 SHEET NO.

JOB NO.

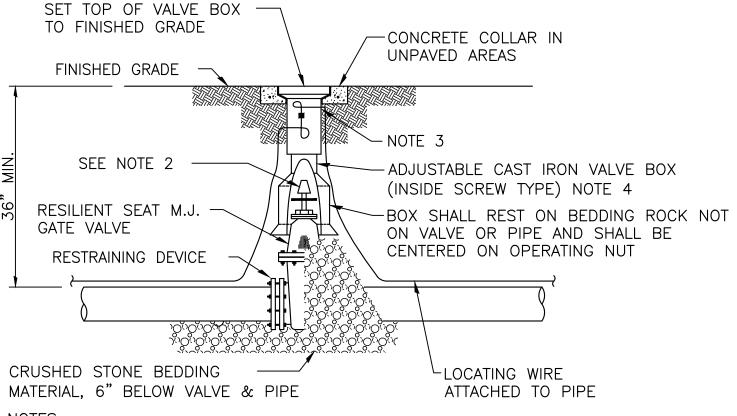
- CALLAHAN Rater Main Replacement Details

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TOWN (CDBG 20 Typical

DESG DRWN PROJ MGR. DATE

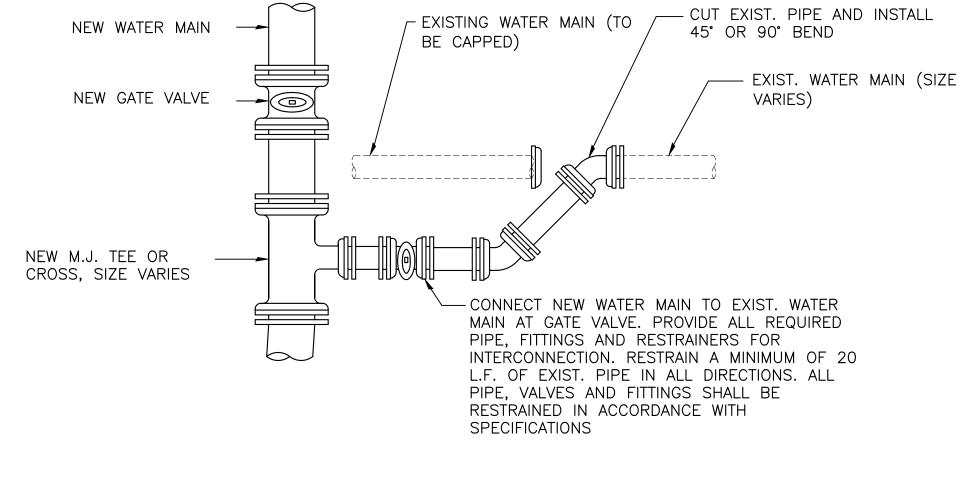
N.T.S



1. PVC EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION.

- 2. THE ACTUATING NUT FOR DEEPER VALVES SHALL BE EXTENDED TO A MAXIMUM OF 30 INCHES BELOW FINISHED GRADE.
- 3. LOCATING WIRE TO ENTER VALVE BOX THRU 3/4 INCH HOLE. PROVIDE 12 INCH PIGTAILS AND CONNECT WITH WIRE NUT. 4. ADJUST TO MID-RANGE TO ALLOW FOR FUTURE BOX ADJUSTMENTS.

GATE VALVE & BOX



TYPICAL EXIST. WATER MAIN RECONNECTION

MINIMUM HORIZONTAL WATER MAIN PIPE SEPARATION (FEET) OTHER PIPING TYPE 1. GRAVITY SANITARY SEWER 6-10 2. GRAVITY SANITARY SEWER – REQUIRED (WHERE BOTTOM OF WATER MAIN HORIZONTAL IS ≥ 6" ABOVE TOP OF GRAVITY SEWER SEPARATION 3. SEWAGE FORCE MAIN 6-10 4. GRAVITY STORM SEWER OTHER PIPE OR UTILITY 5. RECLAIMED WATER

6. ELECTRIC, PHONE, CABLE, GAS

N.T.S.

MINIMUM HORIZONTAL SEPARATION REQUIREMENTS

PLAN VIEW

MINIMUM VERTICAL WATER MAIN PIPE SEPARATION (INCHES) OTHER PIPING TYPE WATER MAIN ON -SEE NOTE 1 1. GRAVITY SANITARY SEWER TOP WITH JOINT CENTERED OVER 12 2. SEWAGE FORCE MAIN OTHER UTILITY PIPE 6-12 3. GRAVITY STORM SEWER 12 4. RECLAIMED WATER 5. ELECTRIC, PHONE, CABLE, GAS -OTHER PIPE OR UTILITY SECTION VIEW

NOTE:

1. IF THE WATER MAIN IS BELOW THE SANITARY SEWER, RECLAIMED WATER MAIN OR

1. IF THE WATER MAIN IS BELOW THE SANITARY SEWER, RECLAIMED WATER MAIN OR

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1. IF THE WATER MAIN IS BELOW THE SANITARY SEWER WATER MAIN OR MAIN IS BELOW THE SANITARY SEWER WATER WATER MAIN IS BELOW THE SANITARY SEWER WATER STORM SEWER PIPE, THEN A MINIMUM OF 12" VERTICAL SEPARATION IS REQUIRED.

MINIMUM VERTICAL SEPARATION REQUIREMENTS

N.T.S.

- CALLAHAN R Water Main Replacement Details OF N O

4 5 6 8 **6** 8

TOWN (CDBG 20 Typical JOB NO. 0302-31-1

SHEET NO.

1. DEWATERING SHALL CONTINUE UNTIL BACKFILL IS COMPACTED AT LEAST 2 FEET

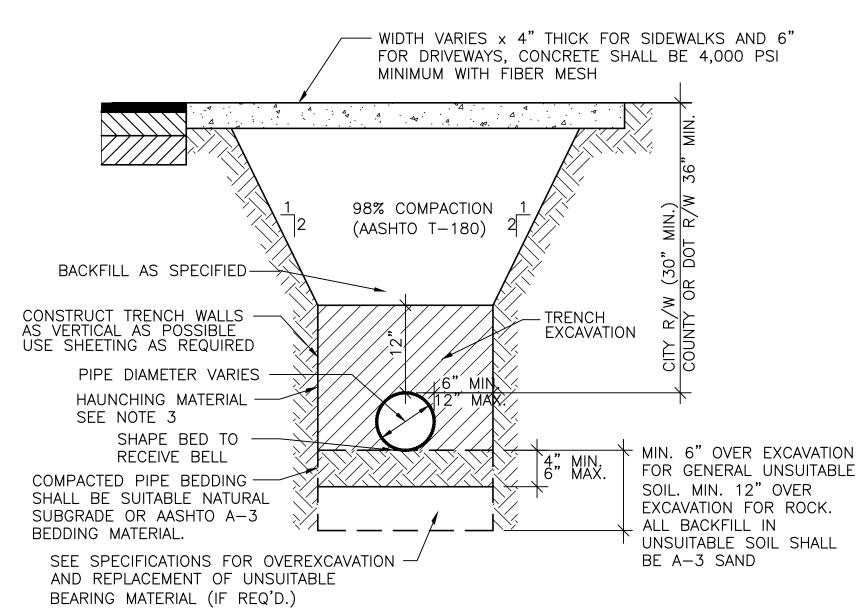
- 2. PIPE INSTALLATION SHALL MEET THE REQUIREMENTS OF AWWA C-600 TYPE 2 LAYING CONDITION AND AS MODIFIED BY THIS DETAIL.
- 3. COMPACT HAUNCHING MATERIAL IN 6" LIFTS COMPACTED TO 98% OF THE MAXIMUM DENSITY PER AASHTO T-180 TO 12 INCH ABOVE TOP OF PIPE.

STABILIZED ROADS & DRIVEWAYS

4. ENGINEER WILL ALLOW THE INSTALLATION OF THE PIPE BY TRENCHING METHOD OF EXCAVATION. TRENCH DETAIL IN

TRENCH DETAIL IN CONCRETE DRIVEWAYS AND SIDEWALKS

CONCRETE DRIVEWAY REPAIR WIDTH SHALL EXTEND TO EXISTING EDGE OF ASPHALT OR NEAREST EXPANSION JOINT.



1. DEWATERING SHALL CONTINUE UNTIL BACKFILL IS COMPACTED AT LEAST 2 FEET ABOVE

- 2. PIPE INSTALLATION SHALL MEET THE REQUIREMENTS OF AWWA C-600 TYPE 2 LAYING CONDITION AND AS MODIFIED BY THIS DETAIL
- 3. COMPACT HAUNCHING MATERIAL IN 6" LIFTS COMPACTED TO 98% OF THE MAXIMUM DENSITY PER AASHTO T-180 TO 12 INCH ABOVE TOP OF PIPE. ALL BEDDING, PIPE EMBEDMENT & HAUNCHING MATERIAL SHALL PASS THRU A 3/4" SIEVE FOR DUCTILE IRON PIPE & A 1/2" SIEVE FOR PLASTIC PIPE.
- 4. ENGINEER WILL ALLOW THE INSTALLATION OF PIPE BY TRENCHING METHOD OF EXCAVATION.

" TYPE SP9.5 @ 1 1/2" LIFTS ASPHALTIC CONCRETE (FULL WIDTH FROM CURB TO CURB) — 8" COMPACTED LIMEROCK BASE, MIN. LBR 100, 100% COMPACTION PER AASHTO T-180 (FULL WIDTH FROM CURB TO CURB) - 12" CONSTRUCTED SUB—GRADE, MIN. LBR 40 98% COMPACTION PER AASHTO T—180 (FULL WIDTH FROM CURB TO CURB) 98% COMPACTION (AASHTO T-180)BACKFILL AS SPECIFIED-CONSTRUCT TRENCH WALLS — AS VERTICAL AS POSSIBLE USE SHEETING AS REQUIRED - TRENCH EXCAVATION PIPE DIAMETER VARIES HAUNCHING MATERIAL SEE NOTE 3 SHAPE BED TO RECEIVE BELL COMPACTED PIPE BEDDING SHALL BE SUITABLE NATURAL SUBGRADE OR AASHTO A-3 BEDDING MATERIAL. SEE SPECIFICATIONS FOR OVEREXCAVATION

AND REPLACEMENT OF UNSUITABLE BEARING MATERIAL (IF REQ'D.)

- 1. DEWATERING SHALL CONTINUE UNTIL BACKFILL IS COMPACTED AT LEAST 2 FEET ABOVE WATER TABLE.
- 2. PIPE INSTALLATION SHALL MEET THE REQUIREMENTS OF AWWA C-600 TYPE 2 LAYING CONDITION AND AS MODIFIED BY THIS DETAIL
- 3. COMPACT HAUNCHING MATERIAL IN 6" LIFTS COMPACTED TO 98% OF THE
- MAXIMUM DENSITY PER AASHTO T-180 TO 12 INCH ABOVE TOP OF PIPE. 4. ENGINEER WILL ALLOW THE INSTALLATION OF PIPE SYSTEM BY TRENCHING METHOD OF EXCAVATION.

AND PAVEMENT REPLACEMENT ASPHALT PAVED ROADS & DRIVEWAYS

TRENCH DETAIL

CALLAHAN Water Main Repetails

4 0 0 × × ×

OF N O TOWN (CDBG 20 Typical

<u>SITE INFORMATION - DEPOT PARK</u>

PARCEL I.D.: 29-2N-25-0000-0065-0000 FLOOD ZONE = X

FLOOD PANEL NO. = 12089C0304F

ZONING = TBDSJRWMD STORMWATER PERMIT = APPLICATION SUBMITTED CONCURRENTLY

TOTAL ACRES OF SITE = 2.19 AC. TOTAL PROJECT AREA = 0.50 AC. EXISTING IMPERVIOUS AREA = 30,333 S.F. PROPOSED IMPERVIOUS AREA = 2.532 S.F. PROPOSED BUILDING AREA = 1,861 S.F. PROPOSED SIDEWALK AREA = 671 S.F. % IMPERVIOUS AREA (TOTAL SITE) = 34.5%

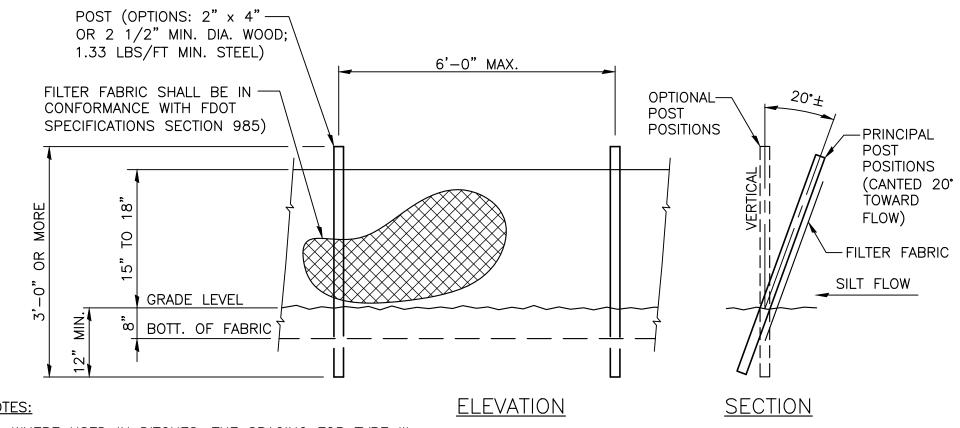
PARKING CALCULATIONS REQUIRED PAVILION AREA (1 SPACE x 300 S.F.) = 1MINIMUM REQUIRED PARKING = 1

TOTAL REQUIRED PARKING = 1

TOTAL ADA ACCESSIBLE SPACES REQUIRED = 1

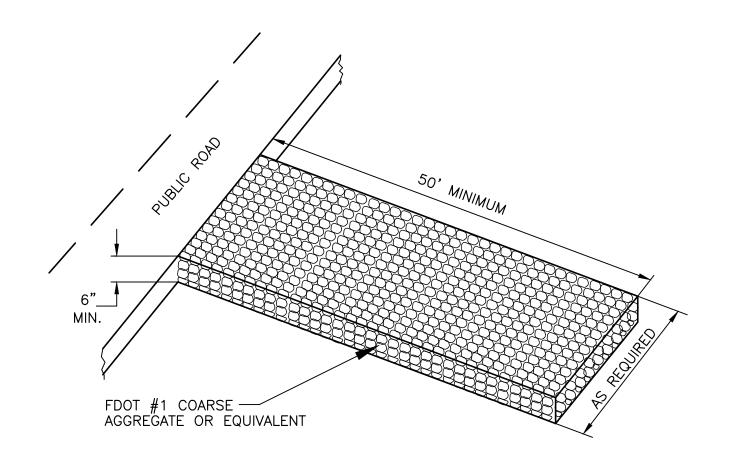
PARKING CALCULATIONS PROVIDED REGULAR SPACES PROVIDED = 2HANDICAP SPACES PROVIDED = 1 COMPACT SPACES PROVIDED = 0TOTAL SPACES PROVIDED = 3

DEPOT PARK EXISTING SITE PLAN



1. WHERE USED IN DITCHES, THE SPACING FOR TYPE III SILT FENCE SHALL BE IN ACCORDANCE WITH FDOT DESIGN STANDARDS, 2010, INDEX NO. 102, SHEET 1 OF 3, CHART NO. 1.

2. INSTALLER MUST BE AN FDEP CERTIFIED AS A SEDIMENT AND EROSION CONTROL PROFESSIONAL. TYPE III SILT FENCE



SILT REMOVAL CONSTRUCTION ENTRANCE

EROSION & SEDIMENTATION CONTROL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING, ACQUIRING AND ADHERING TO THE NOTICE OF INTENT TO USE GENERAL PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH SECTION 02370 OF THE SPECIFICATIONS.

2. DURING ANY CONSTRUCTION ACTIVITY, INCLUDING STABILIZATION AND REVEGETATION OF DISTURBED SURFACES, THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN SELECTION, IMPLEMENTATION AND OPERATION OF ALL EROSION AND SEDIMENT CONTROL MEASURES REQUIRED TO RETAIN SEDIMENT ON-SITE AND PREVENT VIOLATIONS OF THE WATER QUALITY STANDARDS IN CHAPTER 62-3 AND 62-4, F.A.C. THE CONTRACTOR SHALL USE APPROPRIATE BEST MANAGEMENT PRACTICES DESCRIBED IN THE STATE OF FLORIDA EROSION & SEDIMENT CONTROLS DESIGNER & REVIEWER MANUAL, LATEST EDITION (E&SC). ALL TURBIDITY/SILT BARRIERS MUST BE IN PLACE DOWNGRADIENT FROM THE CONSTRUCTION ZONE PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY. THE TYPE AND PLACEMENT OF THE BARRIERS SHALL CONFORM WITH THE E&SC. THE BARRIERS SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS HAVE BEEN PROPERLY STABILIZED.

3. SEDIMENT & EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION. CONTROLS SHALL REMAIN IN-PLACE AND BE MAINTAINED UNTIL PROPER GROUND COVER OR OTHER STABILIZATION HAS BEEN ESTABLISHED.

4. DURING CONSTRUCTION THE CONTRACTOR SHALL CONSTRUCT EROSION & SEDIMENT INLET PROTECTION AT ALL STORM DRAIN INLETS, SEE

5. EXCEPT WHERE SPECIFIC REQUIREMENTS ARE NOTED, EROSION & SEDIMENTATION CONTROLS SHOWN ON THESE PLANS ARE SCHEMATIC IN NATURE. THE CONTRACTOR SHALL MODIFY OR SUPPLEMENT THESE CONTROLS, AS NECESSARY, TO DEVELOP A SITE AND PROJECT SPECIFIC STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE SWPPP SHALL MEET THE REQUIREMENTS OF THE FIELD CONDITIONS ENCOUNTERED AND CONFORM TO THE CONTRACTOR'S PROPOSED MEANS AND METHODS WHILE REMAINING COMPLIANT WITH ALL PERMITTING.

6. THE CONTRACTORS CONSTRUCTION ENTRANCE SHALL BE PROTECTED WITH A MINIMUM OF 6-INCHES OF GRAVEL THE WIDTH OF THE DRIVE AND FOR A DISTANCE OF 25-FEET BEGINNING AT THE PROPERTY LINE AND EXTENDING ON THE PROJECT PROPERTY.

7. THE CONTRACTOR SHALL ADHERE TO THE FOLLOWING GENERAL CONSTRUCTION SEQUENCE:

a. ERECT ALL EROSION & SEDIMENT CONTROLS. b. PREPARE AND PROTECT STAGING AREAS AND CONSTRUCTION AREAS.

c. CONSTRUCT STORMWATER COLLECTION AND TREATMENT SYSTEM.

d. SOD AND STABILIZE POND BANKS. e. PROCEED WITH OTHER ELEMENTS OF PROJECT.

8. CONTRACTOR SHALL PROVIDE & INSTALL ADDITIONAL EROSION CONTROLS AS NECESSARY TO REMAIN IN COMPLIANCE WITH ALL LOCAL, STATE &

9. MAINTAIN ALL TEMPORARY EROSION CONTROLS FOR THE DURATION OF THE WORK AND REPAIR AS NECESSARY.

10. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROLS BY SUBSTANTIAL COMPLETION OF THE PROJECT. ALL DISTURBANCE/DAMAGE INCURRED DURING REMOVAL SHALL BE REPAIRED.

11. ALL AREAS DISTURBED BY CONSTRUCTION AND NOT OTHERWISE RECEIVING PERMANENT IMPROVEMENTS, SHALL BE STABILIZED WITH SOD IN ACCORDANCE WITH THE SPECIFICATIONS.

12. THE CONTRACTOR SHALL PROTECT NEWLY INSTALLED STRUCTURES (I.E INLETS AND MANHOLES) FROM FILLING WITH SILT AND DEBRIS.

13. STOCKPILES OF MATERIALS SHALL NEITHER IMPEDE NOR DISTURB NATURAL DRAINAGE PATTERNS. THE CONTRACTOR SHALL USE DIVERSION SWALES AND SEDIMENT BASINS AS NECESSARY TO REDIRECT DRAINAGE PATTERNS IF NECESSARY TO PREVENT SEDIMENTATION FROM ADVERSELY IMPACTING PROPERTY OFFSITE.

14. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT JURISDICTIONAL AREAS (WETLANDS) OR AREAS TO REMAIN UNDISTURBED FROM IMPACTS DUE TO CONSTRUCTION ACTIVITIES.

15. SEED AND MULCH ALL DISTURBED AREAS WITHIN 14 DAYS; SOD AS REQUIRED TO CONTROL EROSION THROUGH FINAL INSPECTION AND TO PRODUCE A UNIFORM STAND OF GRASS COVER.

— FIBER ROLLS STAKED @ 24" O.C. COMPACTED SOIL TO PREVENT PIPING — FIBER ROLL RUNOFF WATER w/ SEDIMENTS -DROP INLET W/GRATE SPECIFIC APPLICATION THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5%) WHERE SHEET OR OVERLAND

INLET PROTECTION DETAIL

FLOWS (NOT EXCEEDING 0.5 CFS) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

- DROP INLET W/GRATE

JOB NO. 0302-31-1 SHEET NO.

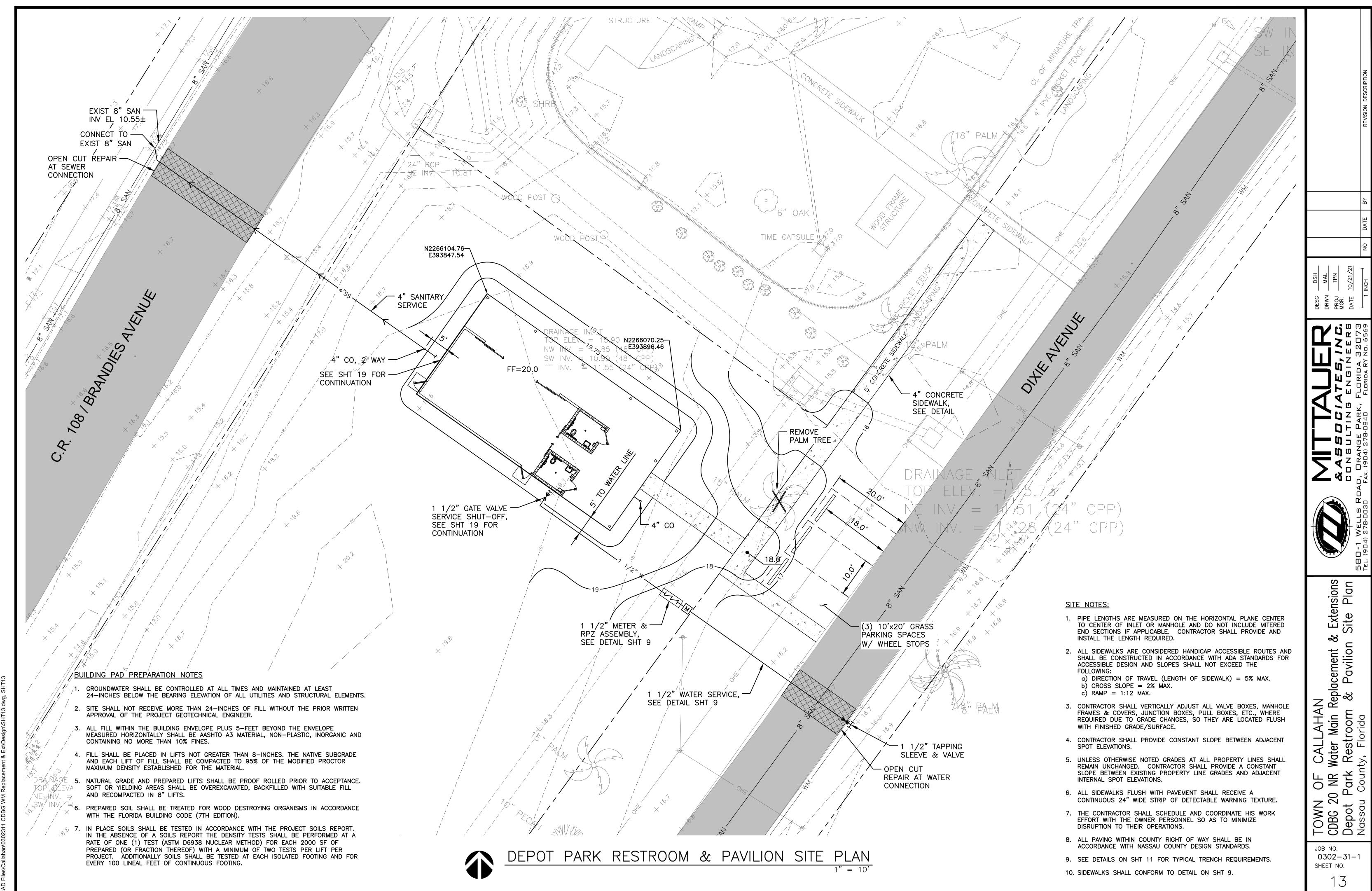
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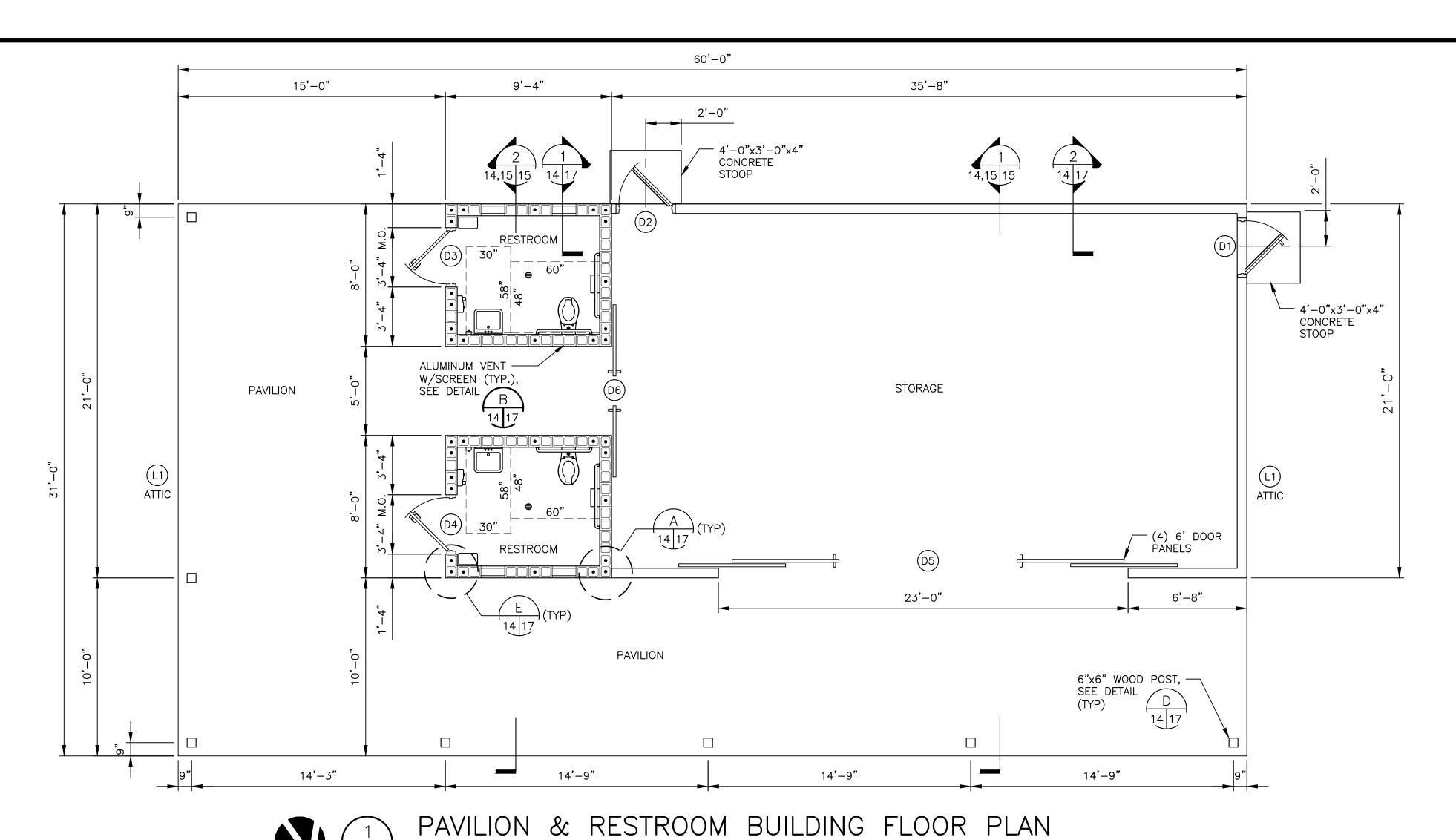
CALLAHAN Water Main F Existing S

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TOWN CDBG 2(Depot Nassau





BUILDING DOOR & LOUVER SCHEDULE										
NO.	WIDTH	HEIGHT	THICK	MATE DOOR	RIAL FRAME	REMARKS				
D1	3'-0"	7-0"	1 3/4"	ST	ST	HOLLOW METAL (NOTE 2)				
D2	3'-0"	7'-0"	1 3/4"	ST	ST	HOLLOW METAL (NOTE 2)				
D3	3'-0"	7-0"	1 3/4"	ST	ST	HOLLOW METAL (NOTE 2)				
D4	3'-0"	7'-0"	1 3/4"	ST	ST	HOLLOW METAL (NOTE 2)				
D5	23'-0"	7'-0"	_	WD	ST	4-PANEL BARN DOOR				
D6	5'-0"	7'-0"	_	WD	ST	2-PANEL BARN DOOR				
L1	2'-0"	4'-0"	_	ALUM	ALUM	FIXED VANE LOUVER				

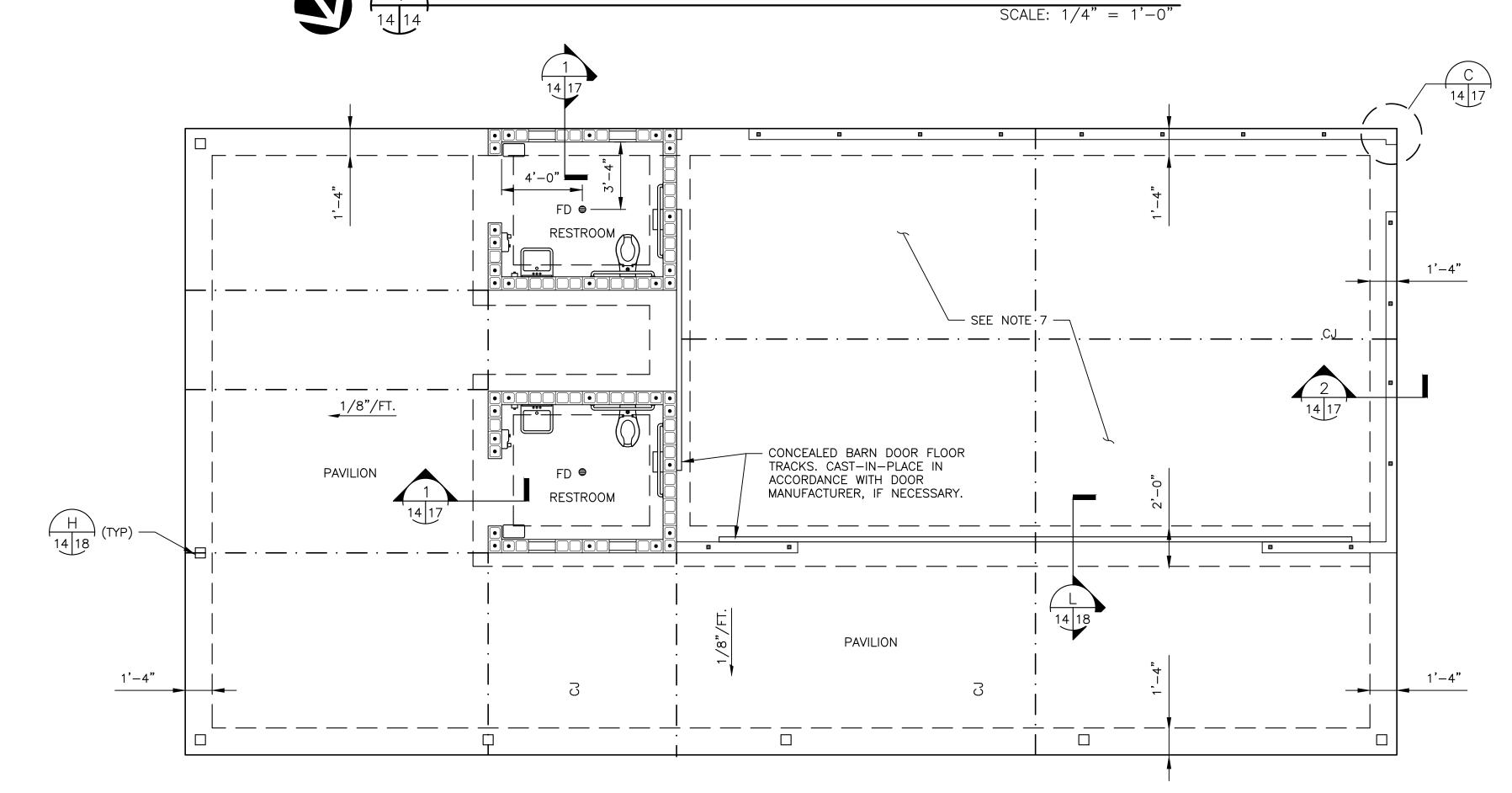
- 1. CONTRACTOR SHALL VERIFY ALL DOOR & LOUVER DIMENSIONS.
- 2. FLAT PANEL WITH 24" SQ. LOUVER VENT PANEL, 16 GAUGE, 2 LB POLYURETHANE CORE, SMOOTH FINISH, OWNER SELECTS COLOR FOR DOOR & FRAME, DOORS & FRAMES SHALL BE PRIMED AND HAVE AN APPLICATION OF 2 COATS OF ENAMEL PAINT, DEADBOLT LOCK W/EXTERIOR KEYED, AUTOMATIC DOOR CLOSER W/12 GA. REINFORCEMENT PLATE, DOOR STOP, LOCKSET W/ADA LEVER HANDLES/INTERIOR PUSHBUTTON/EXTERIOR KEYED/AUTO UNLOCK WITH INTERIOR HANDLE OPERATION AND DOOR CLOSING, INTERIOR KICK PLATES. (SEE REPUBLIC DOORS DL SERIES OR EQUAL).
- 3. ALL HARDWARE AND LOCKSETS SHALL BE STAINLESS WITH SATIN FINISH.
- 4. ALL DOORS SHALL BE KEYED FOR SINGLE KEY TO OPERATE ALL LOCKS.

FOUNDATION NOTES

- 1. UNLESS OTHERWISE NOTED CONSTRUCT 4" CONCRETE (4,000 PSI, TYPE II) SLAB REINFORCED WITH 6x6, W2.0xW2.0 WWF CENTERED THROUGHOUT.
- 2. PRIMARY VERTICAL REINFORCEMENT IN THE EXTERIOR CMU WALLS SHALL BE 24" O.C. TYPICAL.
- 3. PRIMARY VERTICAL REINFORCEMENT IN INTERIOR CMU WALLS SHALL BE 96" O.C. TYPICAL.
- 4. FLOOR SLAB AND ALL FLOOR PENETRATING EQUIPMENT SLABS SHALL BE UNDERLAIN BY A CONTINUOUS 6 MIL VISQUENE VAPOR BARRIER.
- 5. PREPARED BUILDING PAD SHALL BE TERMITE TREATED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE.
- 6. INTERMEDIATE VERTICAL DOWELS ABOVE & BELOW OPENINGS ARE REQUIRED.
- 7. STORAGE AREA CONCRETE SHALL RECEIVE INTERIOR CONCRETE STAIN AND POLYURETHANE FINISH. REFER TO SPECIFICATIONS.

<u>LEGEND</u>

- #5 VERTICAL DOWEL CENTERED IN 4,000 PSI CONC. FILLED CELL
- 5/8" THREADED ROD. SEE TYPICAL WALL SECTION.
- SAW CUT JOINT
- MASONRY OPENING





PAVILION & RESTROOM BUILDING FOUNDATION PLAN

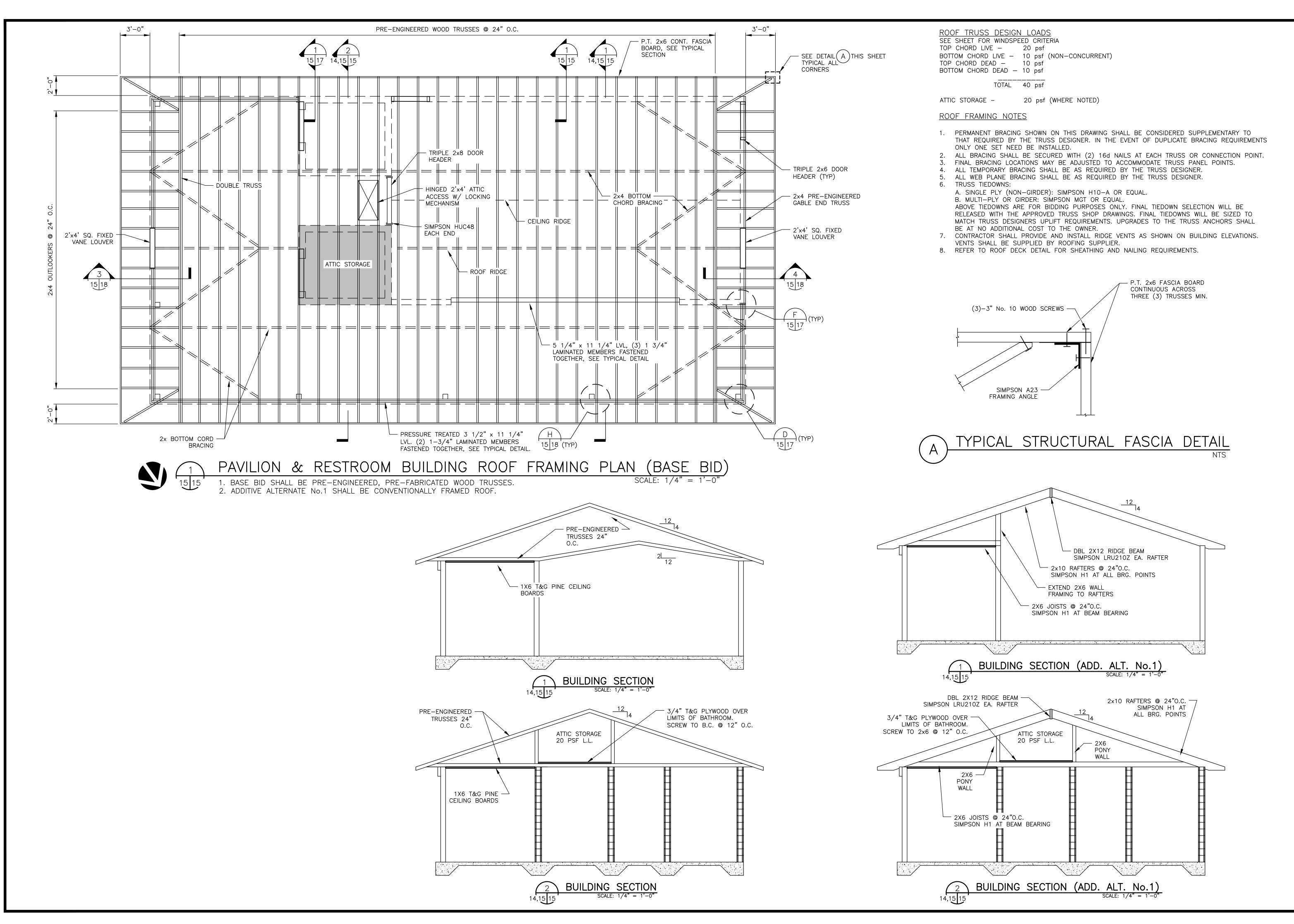
SCALE: 1/4" = 1'-0"

sement & & Floor CALLAHAN Water Main Replace - Foundation & ntv, Florida TOWN CDBG 20 Building

DESG DRWN PROJ MGR. DATE

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Extensions - Plans



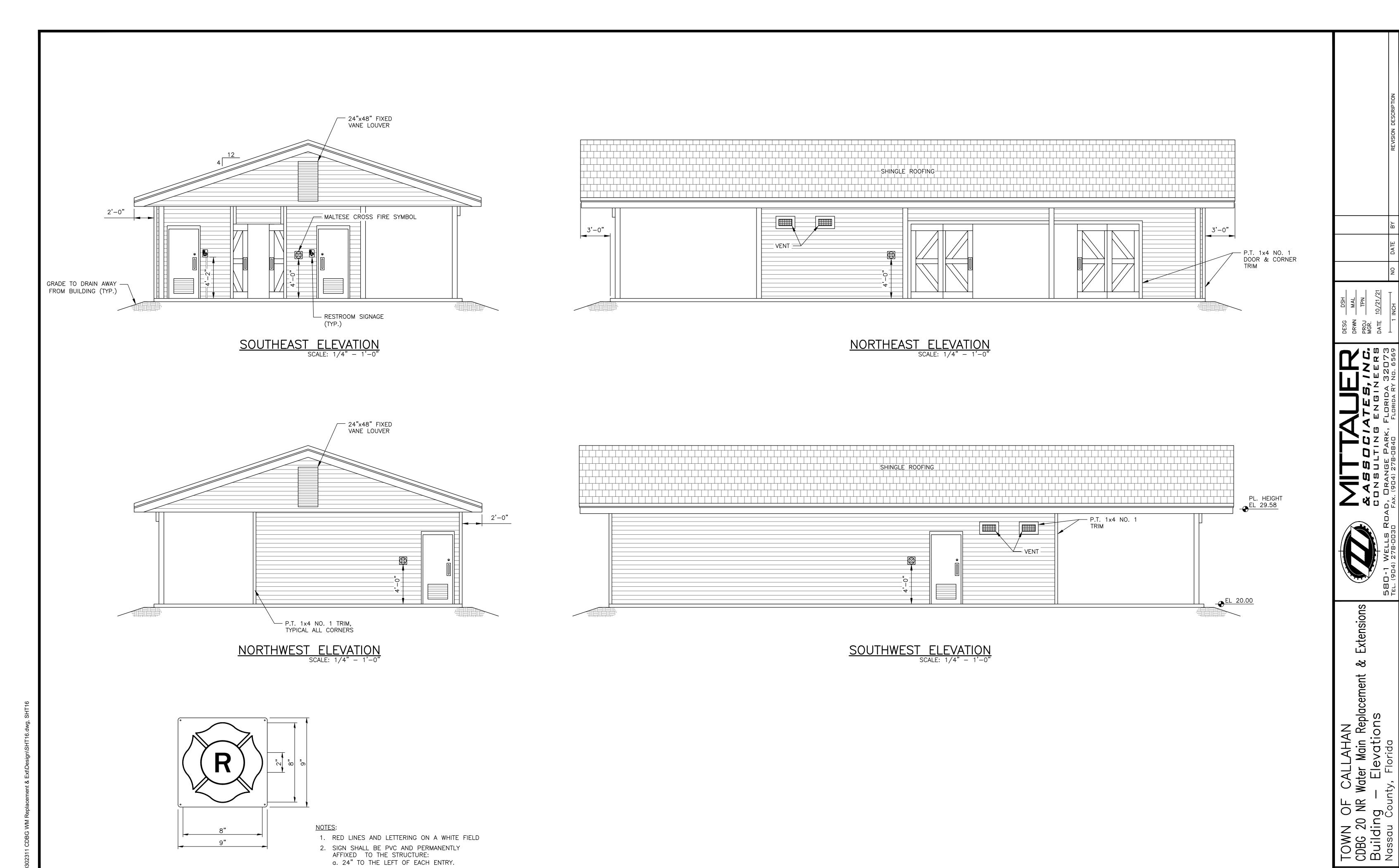
CALLAHAN Water Main Replacement & Roof Framing Plan OF R TOWN (CDBG 20 Building JOB NO.

DESG DRWN PROJ MGR. DATE

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Extensions c Details

0302-31-1 SHEET NO.

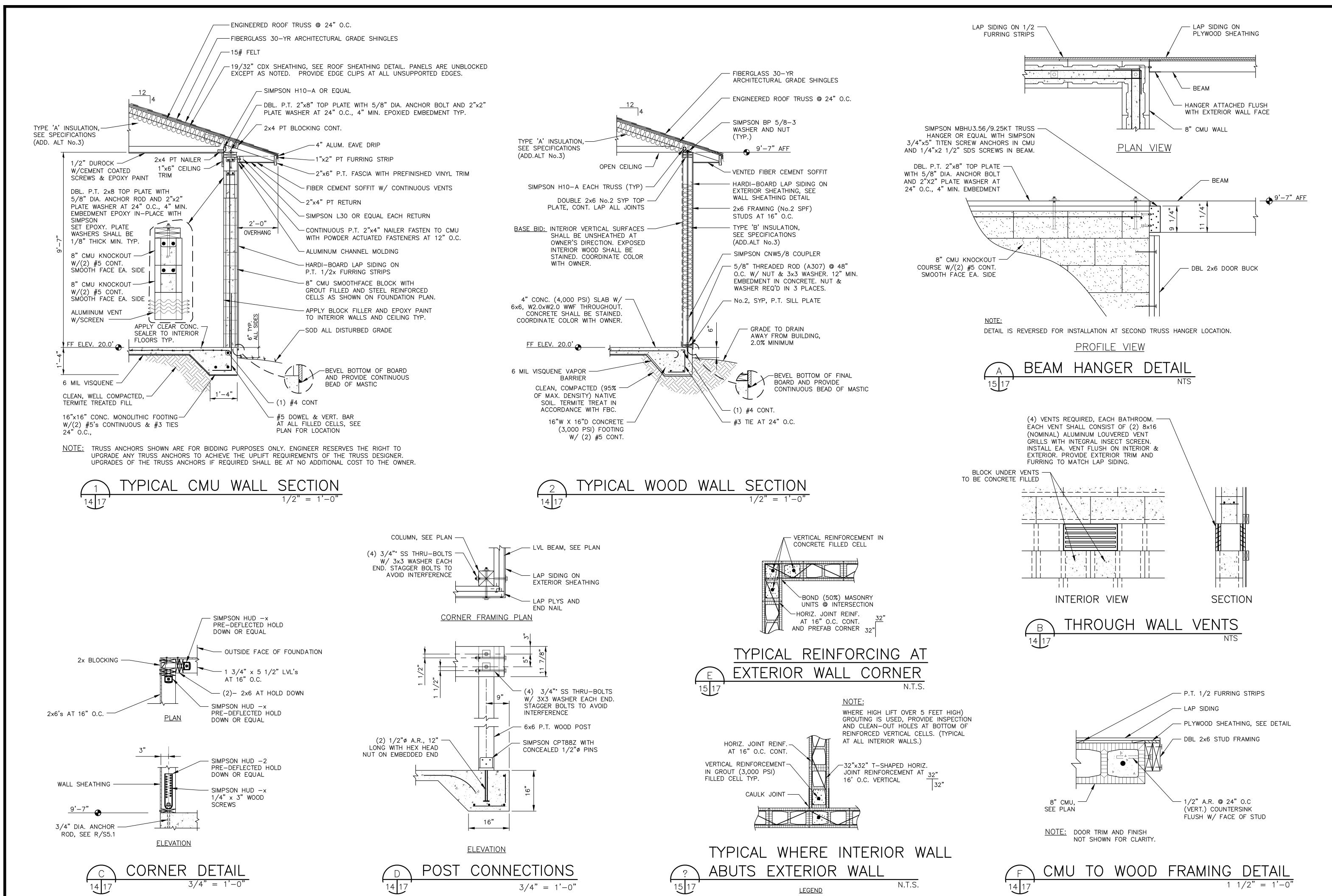


MALTESE CROSS SYMBOL

b. 48" AFF.

CALLAHAN Water Main Replacement — Elevations TOWN OF CDBG 20 NF Building JOB NO.

0302-31-1 SHEET NO.



 DENOTES #5 BAR IN GROUT (3,000 PSI) FILLED CELL.

TOWN CDBC 20 Building JOB NO. 0302-31-1

SHEET NO.

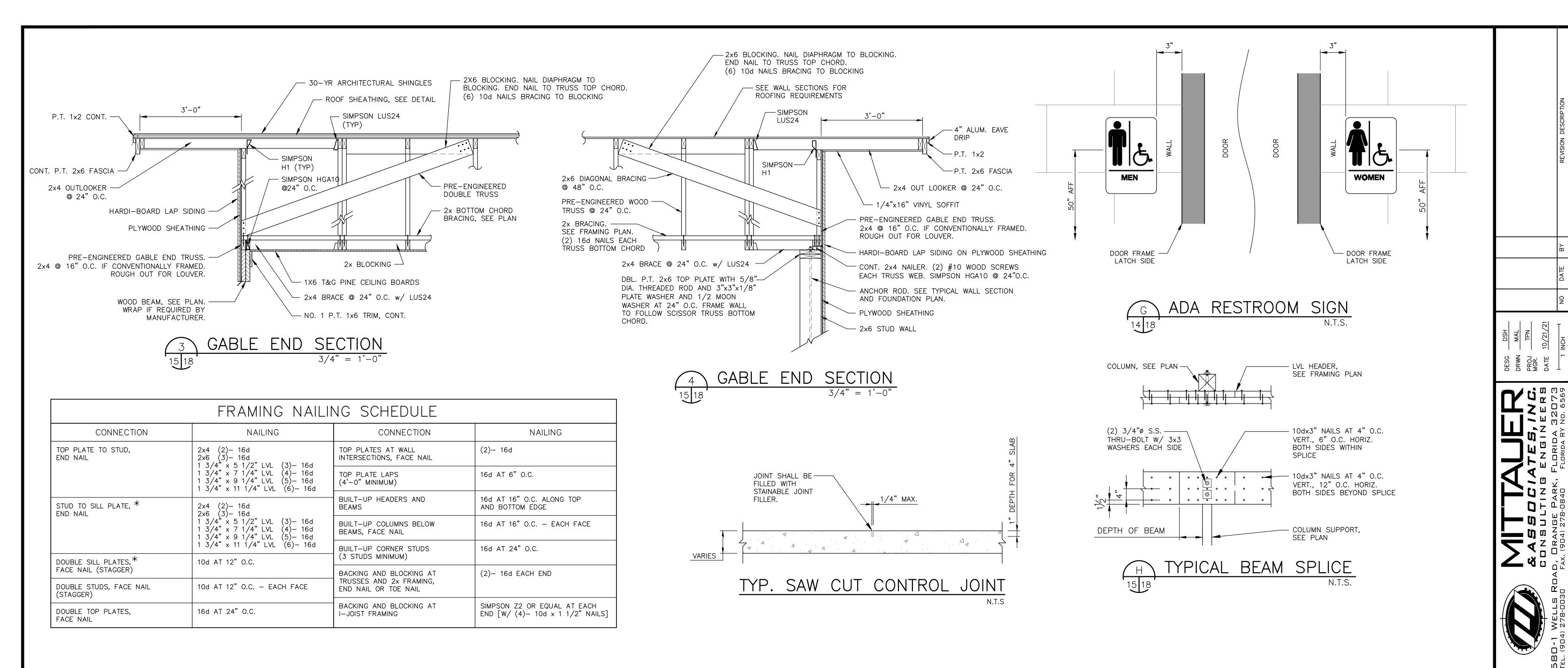
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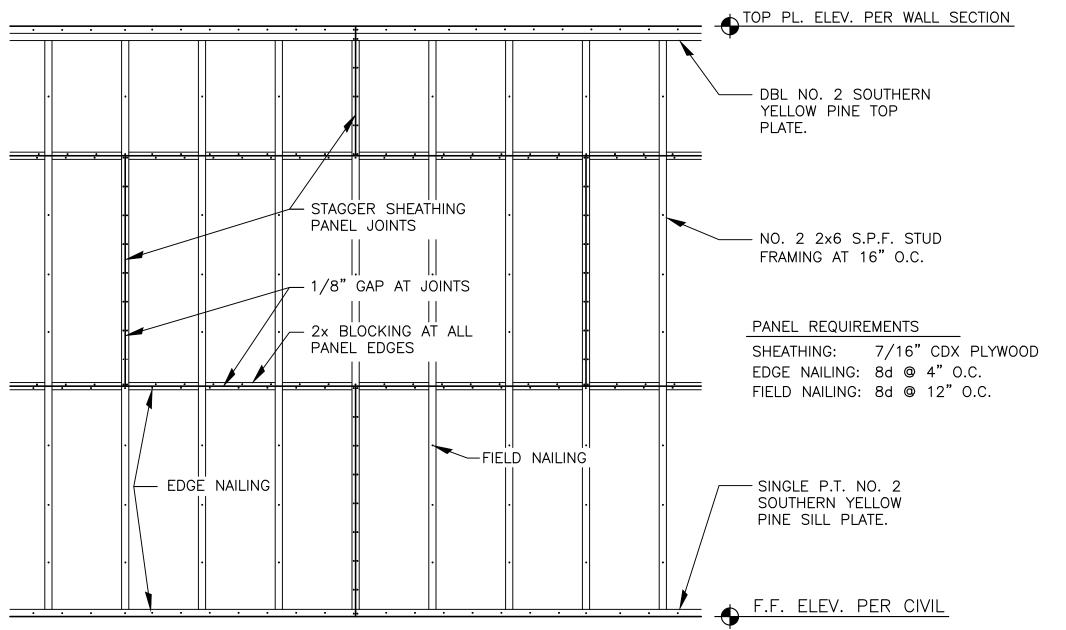
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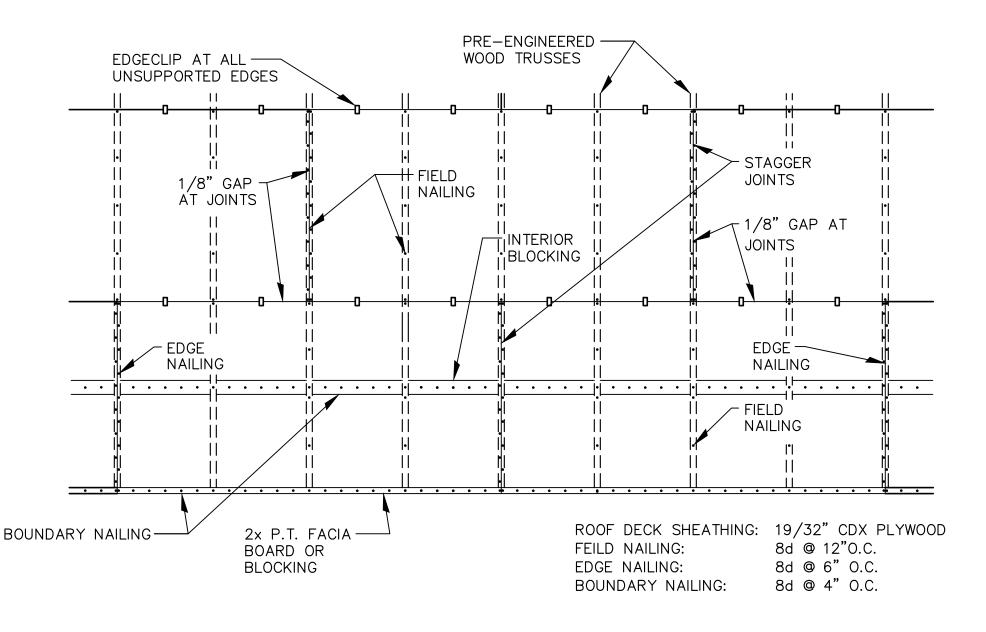
Extensions Details

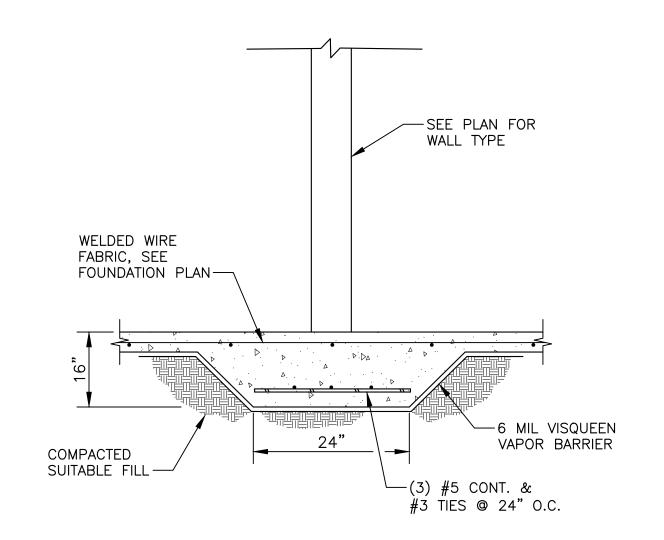
CALLAHAN Water Main Replacement & — Wall Sections &

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INTERIOR WALL FOOTING

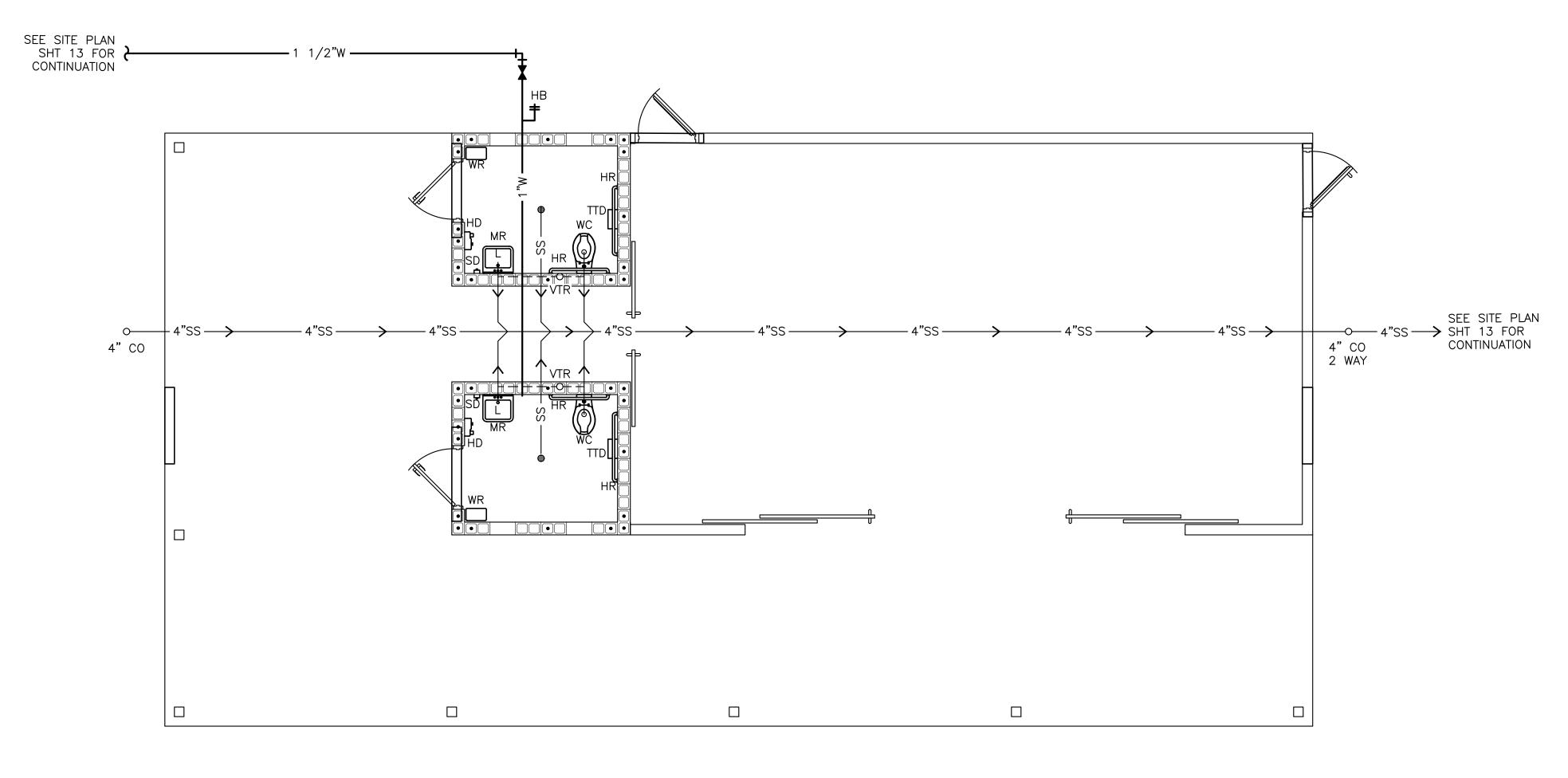
EXTERIOR WALL SHEATHING DETAIL NTS ROOF DECK DETAIL NTS

TOWN (CDBG 20 Building JOB NO. 0302-31-1 SHEET NO.

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Extensions Details

CALLAHAN Water Main Replacement & — Wall Sections & Inty, Florida





PAVILION & RESTROOM BUILDING PLUMBING PLAN

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

NOTES:

- PLUMBING LINE SHOWN IS FOR CONFIGURATION ONLY AND IS NOT INDICATIVE OF PHYSICAL LOCATION. THE CONTRACTOR SHALL MODIFY PROPOSED LAYOUT AS NECESSARY TO ACCOMMODATE ACTUAL BUILDING CONSTRUCTION.
- 2. CONTRACTOR SHALL PREPARE AND SUBMIT PLUMBING RISER DIAGRAM AS REQUIRED BY THE LOCAL BUILDING DEPARTMENT.
- 3. ALL PLUMBING FIXTURES AND PRODUCTS SHALL BE OF COMMERCIAL GRADE. ADA UNITS SHALL BE CERTIFIED BY THE MANUFACTURER AS ADA COMPLIANT.
- 4. WHERE PLUMBING LINES PENETRATE FOOTINGS, THE CARRIER PIPE SHALL BE SLEEVED WITH A PIPE TWO SIZES GREATER THAN THE CARRIER PIPE. IN THE EVENT THE PENETRATION INTERFERES WITH REINFORCING, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR SPECIAL INSTRUCTIONS.
- 5. PROVIDE SUITABLE CARRIERS FOR ALL WALL HUNG FIXTURES.
- 6. PROTECT ALL EXPOSED PIPING WITH TAMPER/VANDAL PROOF PIPE PROTECTORS.

	PLUMBING FIXTURE SCHEDULE										
ITEM	DESCRIPTION	REMARKS	WASTE P-TRAP	CW	HW						
WC	WATER CLOSET	ADA, SS, ELONGATED, FLOOR, FLUSH VALVE	4"	1"	_						
L	LAVATORY	ADA, SS, WALL MOUNTED	1 1/4"	1/2"	_						
FD	FLOOR DRAIN	PROVIDE TRAP PRIMER	3"	_	1						
НВ	HOSE BIBB	BRASS W/ BACKFLOW PREVENTER	_	3/4"	_						
SH	SHOWER	ADA, SS OUTDOOR WALL MOUNTED	4"	3/4"	3/4"						

PLUMBING BASIS OF DESIGN

- WC WATER CLOSET, ADA, FLOOR MOUNTED, STAINLESS STEEL, ELONGATED BOWL, TOP FLUSH VALVE, MURDOCK MODEL 1006—HCT TOILET WITH OPEN FRONT SEAT, MURDOCK MODEL 1151—ULF 1.6 GPM TOP SUPPLY FLUSH VALVE, PLASTIC OPEN FRONT TOILET SEAT, INCLUDING MOUNTING HARDWARE.
- L LAVATORY, ADA COMPLIANT, WALL MOUNTED, STAINLESS STEEL, SINGLE FAUCET HOLE, MURDOCK MODEL 1013—H1—9. SINGLE HOLE MOUNT FAUCET, ADA COMPLIANT CAST BRASS WITH CHROME FINISH, METERING SLOW CLOSE VALVE, LEVER HANDLE, DELTA MODEL 87T105.
- FD FLOOR DRAIN WITH TRAP PRIMER, SIOUX CHIEF MODEL NO. 832—64DNR CAST IRON FLOOR DRAIN WITH FLANGE, AND 1/2" TRAP PRIMER CONNECTION. TRAP PRIMER SHALL BE INSTALLED ON COLD WATER SUPPLY SERVING SINK IN SAME ROOM OR NEAREST SINK AVAILABLE.
- HB WOODFORD HOSE BIBB MODEL 24, WITH P-1/2 FTP INLET, INCLUDING OPTIONAL METAL WHEEL HANDLE
- VTR VENT TO ROOF, SEE DETAIL.

ACCESSORY EQUIPMENT SCHEDULE									
ITEM	DESCRIPTION	REMARKS							
SD	SOAP DISPENSER	STAINLESS STEEL							
HD	ELECTRIC HAND DRYER	ADA COMPLIANT							
TTD	TOILET TISSUE DISPENSER	DOUBLE ROLL STAINLESS STEEL							
WR	WASTE RECEPTACLE	PROVIDED BY OWNER							
HR	ADA HANDRAILS	STAINLESS STEEL							
MR	MIRROR	STAINLESS STEEL							

RESTROOM ACCESSORIES BASIS OF DESIGN

- SD SOAP DISPENSER, ADA COMPLIANT, 20 GA SATIN FINISHED 316 STAINLESS STEEL, LIQUID DISPENSER, SATIN FINISH, SURFACE MOUNTED, BRADLEY MODEL 6562
- HD HAND DRYER, ADA COMPLIANT, WARM AIR, HIGH VELOCITY, SATIN FINISHED 316 STAINLESS STEEL, UNIVERSAL VOLTAGE, SURFACE MOUNTED, SANIFLOW MODEL MO6AC-UL
- D TOILET TISSUE DISPENSER WITH SHELF, DOUBLE ROLL, SATIN FINISHED 316 STAINLESS STEEL, ANTI—THEFT SPINDLE, BRADLEY MODEL 5263
- HR GRAB BAR, ANSI A117.1 AND ADA COMPLIANT, 18 GA. 316 STAINLESS STEEL WITH SAFETY—GRIP FINISH, 1 1/4" DIA. TUBING, BRADLEY MODEL 837
- MR MIRROR, BRIGHT ANNEALED 20 GA. 316 STAINLESS STEEL, 18"x24", BRADLEY MODEL 7481

<u>S:</u>

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& ASSOCIATES
CONSULTING ENGIN

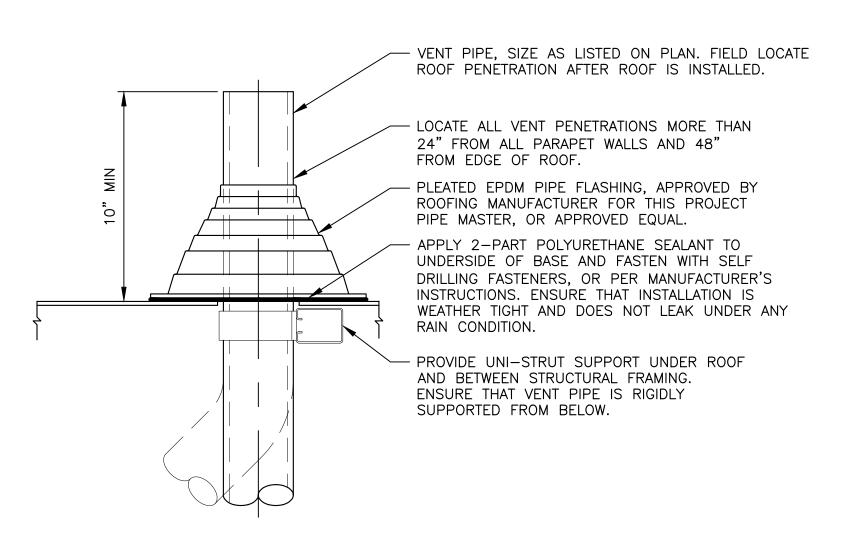


TOWN OF CALLAHAN CDBG 20 NR Water Main Replacement & Extensions Building — Plumbing Plan & Details Nassau County, Florida

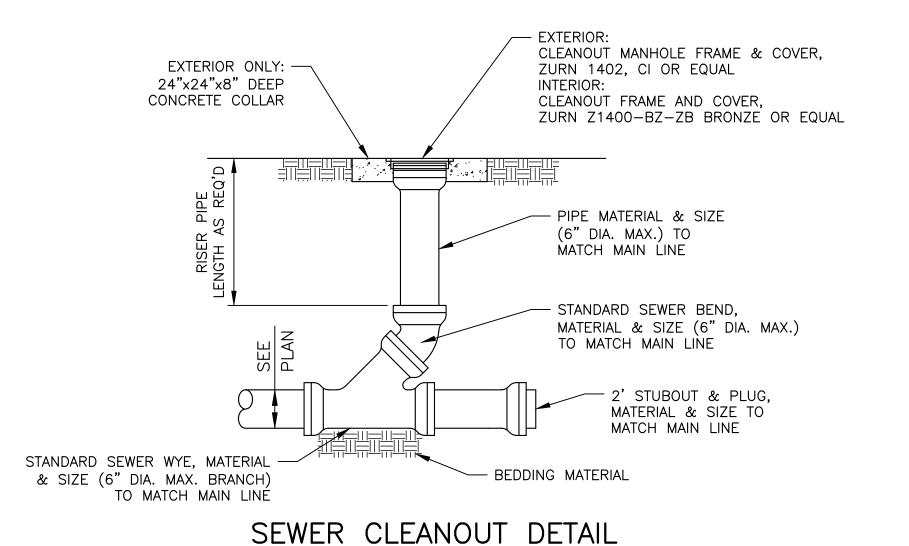
JOB NO.
0302-31-1
SHEET NO.

19

FLOOR DRAIN TRAP PRIMER DETAIL



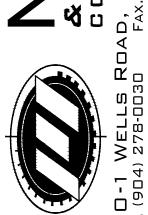
VENT THRU ROOF DETAIL



GENERAL PLUMBING NOTES:

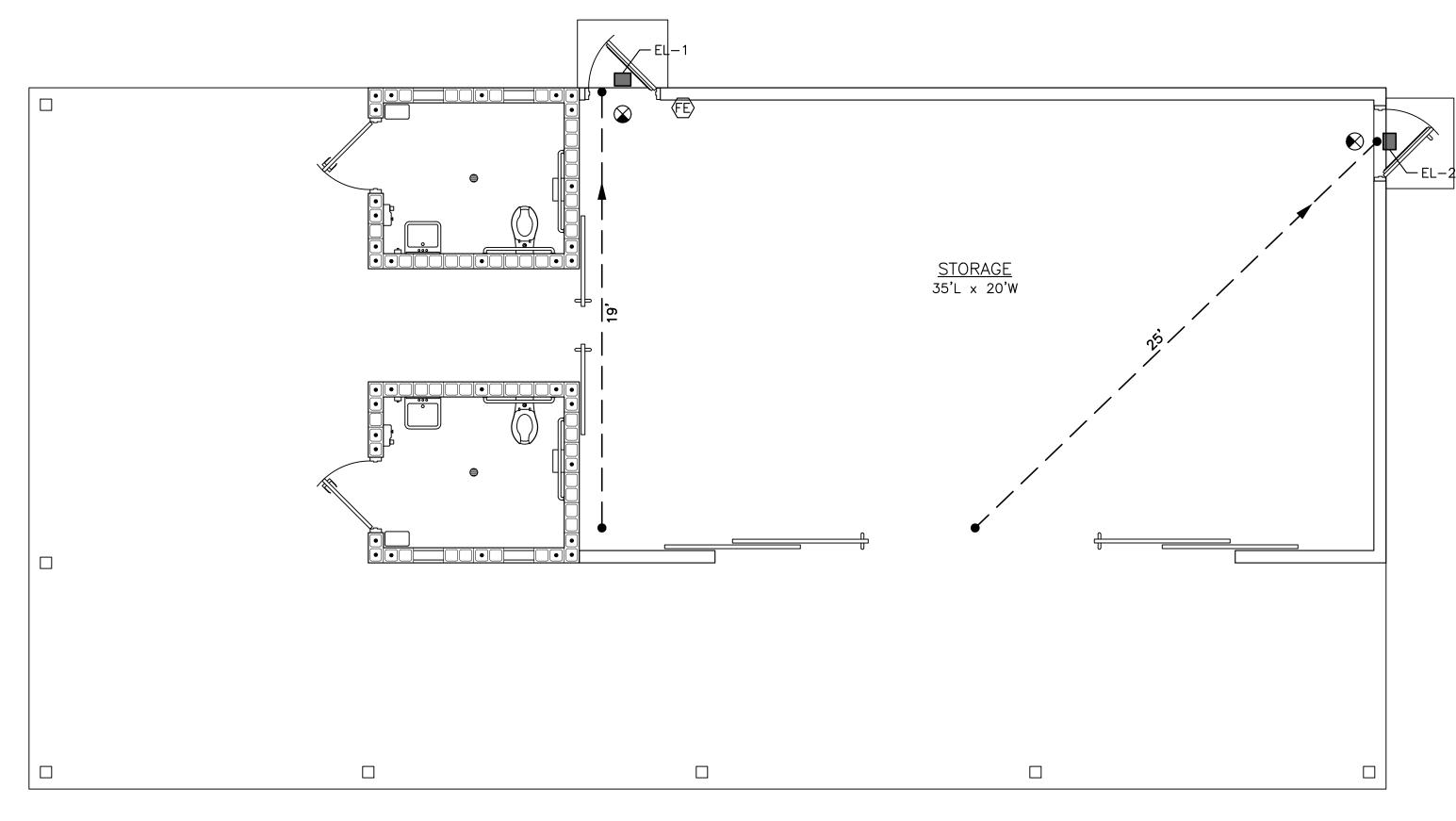
- 1. ALL WORK IS TO BE ACCOMPLISHED IN ACCORDANCE WITH THE FOLLOWING STANDARDS AND SPECIFICATIONS: - FLORIDA BUILDING CODE - BUILDING, SEVENTH EDITION, WITH REVISIONS.
- FLORIDA BUILDING CODE TEST PROTOCOLS FOR HIGH VELOCITY HURRICANE ZONES, SEVENTH EDITION.
- FLORIDA BUILDING CODE ACCESSIBILITY, SEVENTH EDITION.
- FLORIDA BUILDING CODE ENERGY CONSERVATION, SEVENTH EDITION.
- FLORIDA BUILDING CODE PLUMBING, SEVENTH EDITION.
- FLORIDA BUILDING CODE FUEL GAS, SEVENTH EDITION. - FLORIDA BUILDING CODE - MECHANICAL, SEVENTH EDITION.
- FLORIDA FIRE PREVENTION CODE (FFPC), SEVENTH EDITION.
- AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), LATEST EDITION. - NFPA 70 - NATIONAL ELECTRIC CODE, LATEST EDITION.
- FEDERAL, STATE AND LOCAL BUILDING CODES NOT COVERED ABOVE.
- IN THE EVENT OF CONFLICTS BETWEEN CODE REQUIREMENTS AND THE CONSTRUCTION DOCUMENTS, THE MOST RESTRICTIVE REQUIREMENTS SHALL GOVERN.
- 2. ANY APPARATUS, APPLIANCE, MATERIAL, OR WORK NOT SHOWN ON THE DRAWINGS BUT MENTIONED HEREIN, OR VICE VERSA, OR ANY INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE WORK COMPLETE AND OPERABLE IN ALL RESPECTS AND READY FOR OPERATION, EVEN IF NOT SPECIFICALLY IDENTIFIED, SHALL BE FURNISHED, DELIVERED, AND INSTALLED BY THE CONTRACTOR WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
- 3. IN THE EVENT OF CONTRADICTIONS, ON THESE DRAWINGS FROM SHEET TO SHEET, AND/OR BETWEEN PLUMBING SHEETS, MECHANICAL SHEETS, ARCHITECTURAL AND/OR CIVIL SHEETS, THE CONTRACTOR SHALL INCLUDE IN HIS BID THE COST OF THE MOST RESTRICTIVE (COSTLY) ACTION SPECIFIED. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, FOR CLARIFICATION OF THE WORK TO BE PERFORMED. ANY COSTS GENERATED AS A RESULT OF FAILURE TO IDENTIFY THESE DISCREPANCIES SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
- 4. THE PLUMBING DRAWINGS ARE DIAGRAMMATIC AND INDICATIVE OF WORK TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT. COORDINATION OF ROUGH-IN DIMENSIONS, MOUNTING HEIGHTS, AND PIPE ROUTING SHALL BE ACCOMPLISHED BY THIS CONTRACTOR DURING CONSTRUCTION.
- 5. WHERE THE WORDS "CONSTRUCT", "PROVIDE", "FURNISH", "INCLUDE" OR "INSTALL" ARE USED IN THE SPECIFICATIONS OR ON THE DRAWINGS, IT SHALL MEAN TO FURNISH, INSTALL AND TEST COMPLETE AND READY FOR OPERATION, THE ITEMS MENTIONED. IF AN ITEM IS EITHER CALLED FOR IN THE SPECIFICATION OR CALLED FOR ON THE DRAWINGS, IT SHALL BE CONSIDERED SUFFICIENT FOR INCLUDING SAME IN THE
- 6. SHOULD ANY QUESTIONS AND/OR DISCREPANCIES ARISE REGARDING THE CONTRACT DOCUMENTS AND/OR FIELD CONDITIONS, THE GENERAL CONTRACTOR SHALL CONTACT THE ENGINEER FOR PROPER INTERPRETATION AND/OR CLARIFICATION PRIOR TO THE COMMENCEMENT OF ANY WORK. IN THE ABSENCE OF SUCH REQUEST AND/OR AUTHORIZATION FROM THE ENGINEER, THE GENERAL CONTRACTOR WILL BE PROCEEDING AT HIS OWN RISK.
- 7. THIS CONTRACTOR SHALL PAY FOR ALL INSPECTIONS, PERMITS, CERTIFICATES, CONNECTION FEES, SYSTEM DEMAND CHARGES AND LICENSE FEES IN CONNECTION WITH THIS WORK. THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ALL PERMITS AND SCHEDULING APPROPRIATE INSPECTIONS DURING CONSTRUCTION WITH THE AUTHORITY HAVING JURISDICTION.
- 8. ALL WORK SHALL BE INSTALLED IN A WORKMANLIKE MANNER BY EXPERIENCED TRADESMEN. CONTRACTORS SHALL MAINTAIN A CLEAN WORK PREMISE AT ALL TIMES AND SHALL CLEAN CONSTRUCTION SITE OF ALL DEBRIS AT JOB COMPLETION AND BEFORE FINAL PAYMENT IS MADE.
- 9. FURNISH ONE MARKED-UP SET OF "PLUMBING AS BUILTS" TO THE PRIME CONTRACTOR SHOWING THE LOCATION OF CLEANOUTS, SHUT-OFF VALVES WITH DIMENSIONAL LOCATION OF ALL EXTERIOR UTILITIES.
- 10. WARRANTY AND FACTORY SERVICE ALL PLUMBING EQUIPMENT, MATERIALS AND LABOR PROVIDED UNDER THIS CONTRACT SHALL BE GUARANTEED FOR A PERIOD OF 12 MONTHS FROM THE DATE OF FINAL COMPLETION AND ACCEPTANCE. ANY DEFECTS ARISING WITHIN THIS PERIOD SHALL BE REPAIRED AND/OR REPLACED AT NO COST TO THE OWNER. ALL REFRIGERATION (WATER COOLER) COMPRESSORS TO BE PROVIDED WITH FIVE-YEAR FACTORY WARRANTIES.
- 11. ALL PIPING INVERTS ARE TO BE ESTABLISHED AFTER FINISHED FLOOR ELEVATION AND UTILITY SEWER INVERTS ARE DETERMINED.
- 12. INTERIOR AND EXTERIOR WASTE AND VENT PIPING TO BE SCHEDULE 40 PVC-DWV PIPE AND FITTINGS, ASTM D2665-82 (PVC) AND ASTM D2661-84 (DWV).
- 13. ALL VALVES TO BE BALL VALVES UNLESS OTHERWISE SPECIFIED ON DRAWINGS. BALL VALVES TO BE 150 SWP AND 600 WOG CLASS, TWO PIECE FULL PORT CAST BRONZE BODY (ASTM-61, ASTM-62 OR ASTM B-584), FULL SIZE STAINLESS STEEL BALL WITH TEFLON (TFE) SEATS AND SEALS. VALVES TO CONFORM TO MSS-SP-110, NIBCO T-585-70-66, OR APPROVED EQUAL BY APOLLO, POWELL, WATTS OR GRINNELL
- 14. WASTE PIPING SHALL BE TESTED AND PROVEN TIGHT BY A WATER TEST OF THE SYSTEM WITH NOT LESS THAN 10'-0" HYDROSTATIC HEAD, FOR A PERIOD OF NOT LESS THAN 2 HOURS.
- 15. WATER PIPING SHALL BE TESTED AND PROVIDED TIGHT UNDER A HYDROSTATIC PRESSURE OF NOT LESS THAN 150 PSIG, FOR A PERIOD NOT LESS THAN 2 HOURS.
- 16. COLD WATER PIPING, ABOVE AIR CONDITIONED CEILINGS TO BE INSULATED WITH 0.375 INCH THICK POLYETHYLENE FOAM INSULATION TO PREVENT CONDENSATION.
- 17. ALL POTABLE WATER PIPING SHALL BE DISINFECTED IN ACCORDANCE WITH SECTION 610 OF THE FLORIDA PLUMBING CODE.
- 18. ALL FLOOR DRAINS TO BE PROVIDED W/TRAP PRIMERS, PRIMERS TO BE ACCESSIBLE FOR MAINTENANCE BUT NOT TO THE PUBLIC. WHERE INSTALLED IN WALLS, ACCESS PANELS TO BE PROVIDED.
- 19. DIELECTRIC UNIONS TO BE INSTALLED AT ALL CONNECTIONS OF DISSIMILAR METALS.
- 20. ALL HOSE BIBS AND FAUCETS WITH THREADED HOSE CONNECTIONS TO HAVE VACUUM BREAKERS.
- 21. FURNISH AND INSTALL CLEANOUTS IN LOCATIONS SHOWN ON PLANS. CLEANOUTS IN FINISHED FLOORS TO HAVE A SQUARE ACCESS COVER AND FRAME OF BRONZE. CLEANOUTS IN OUTSIDE LOCATIONS TO BE BROUGHT TO THE SURFACE AND SET FLUSH WITH FINISHED GRADE IN A 24" SQUARE CONCRETE PAD. REFER TO TYPICAL CLEANOUT DETAILS FOR ADDITIONAL REQUIREMENTS.
- 22. ALL VENTS EXTENDING THROUGH ROOF SHALL BE PROVIDED WITH AN APPROVED VENT FLASHING SYSTEM BY THE MANUFACTURER OF THE ROOF. SUBMIT VENT FLASHING PRODUCT DATA FOR REVIEW BY THE ENGINEER. ENSURE THAT VENT STACK IS OFF-SET PER TYPICAL DETAIL TO PENETRATE FLAT PORTION OF ROOF PANEL.
- 23. ALL WATER CONNECTIONS SHALL BE PROVIDED WITH AN INDIVIDUAL SHUT-OFF VALVE, SAME SIZE AS THE FIXTURE OR EQUIPMENT CONNECTION.
- 24. ALL FIXTURE TRIM SHALL BE CHROME PLATED, AND WHERE PIPING FAUCETS, ETC., PROTRUDE THROUGH THE WALLS, FLOORS, OR FIXTURE SLABS, CHROME PLATED CAST BRASS ESCUTCHEONS SHALL BE INSTALLED. ALL WATER CONNECTIONS TO FIXTURES SHALL BE PROVIDED WITH STOPS.

DESG DRWN PROJ MGR. DATE



Extensions Notes cement etails CALLAHAN Water Main Rep - Plumbing nty, Florida

OF NR $\mathcal{D}_{\mathcal{O}}$ TOWN CDBG 20 Building





BUILDING CODE SUMMARY & LIFE SAFETY CODE CRITERIA

FLORIDA BUILDING CODE (FBC) SEVENTH EDITION (2020), FLORIDA FIRE PREVENTION CODE (FFPC) SEVENTH EDITION, NFPA 101 LIFE SAFETY CODE, 2018 EDITION

	ASSEMBLY
GROSS FLOOR AREA	807 SF
CONDITIONED FLOOR AREA	0 SF
OCCUPANCY:	STORAGE - S1
OCCUPANCY LOAD	1/200 SF
NUMBER OF OCCUPANTS:	5
TYPE OF CONSTRUCTION	III-B
(COMBUSTIBLE, UN-PROTECTED)	
AUTOMATIC SPRINKLER & ALARM	NO
NUMBER OF EXITS & EXIT WIDTH	1 @ 3'-0"
REQUIRED	
NUMBER OF EXITS & EXIT WIDTH	2 @ 3'-0"
PROVIDED	
ALLOWABLE LONGEST PATH OF TRAVEL	100'
ACTUAL LONGEST PATH OF TRAVEL	25'
ADA ACCESSIBLE TOILET ROOMS:	2

REFER TO ELECTRICAL DRAWINGS FOR TYPE AND LOCATION OF EXIT SIGNS AND EMERGENCY LIGHTING.

EXIT SIGN LONGEST ROUTES

FIRE EXTINGUISHER. PROVIDE & LOCATE PER FFPC,

SECTION 13.6

EXTERIOR EMERGENCY LIGHT

LIFE SAFETY PLAN NOTES:
1. PORTABLE FIRE EXTINGUISHERS SHALL BE CONSPICUOUSLY MOUNTED IN AN ACCESSIBLE LOCATION

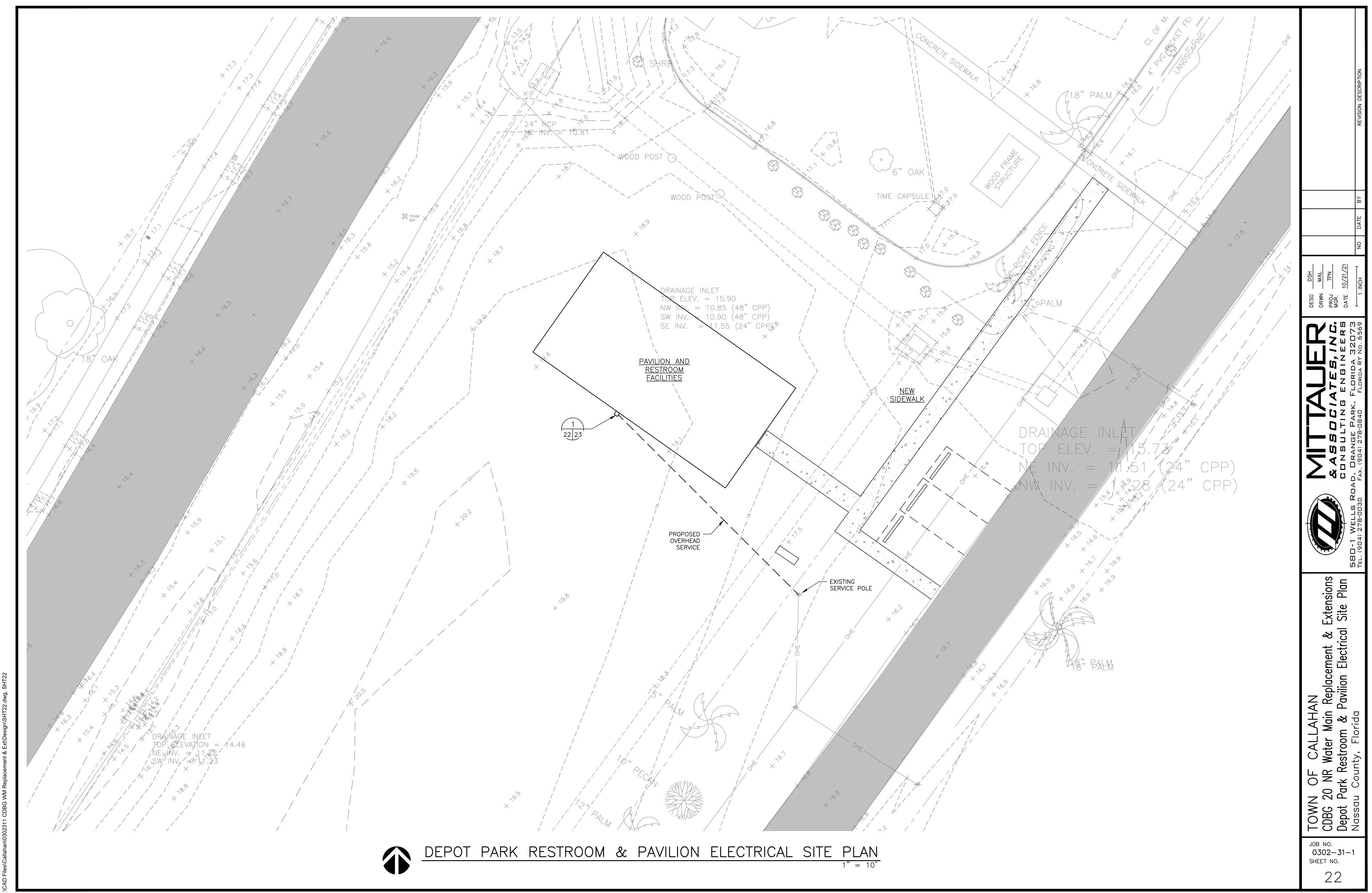
2. UNLESS OTHERWISE NOTED, EACH EXTINGUISHERS SHALL BE A 10LB, DRY

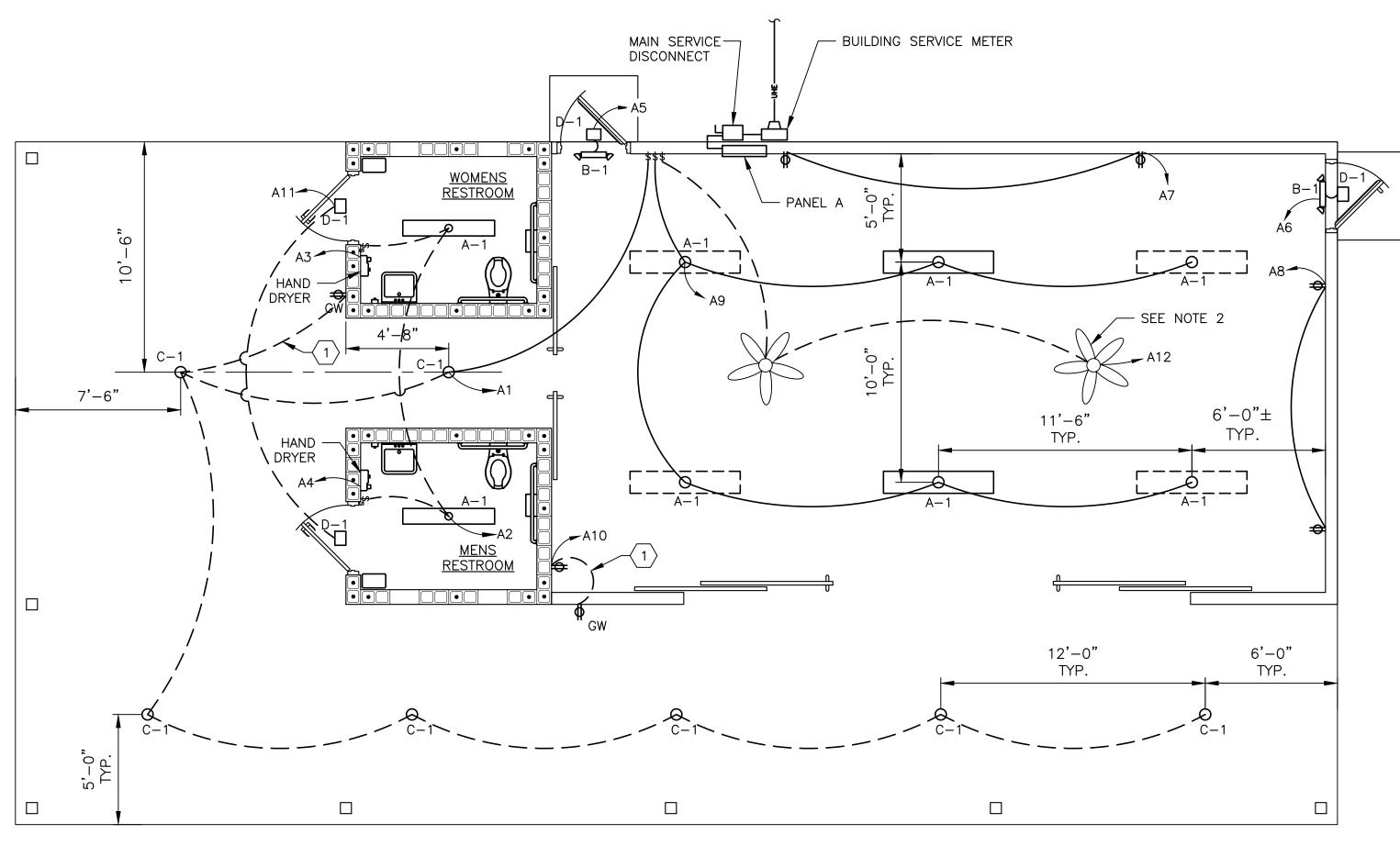
CHEMICAL, CLASS ABC UNIT.

3. CROSS—REFERENCE ALL EXIT SIGNAGE LOCATIONS WITH ELECTRICAL PLANS



Extensions Details TOWN OF CALLAHAN
CDBG 20 NR Water Main Replacement &
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Nassau County, Florida



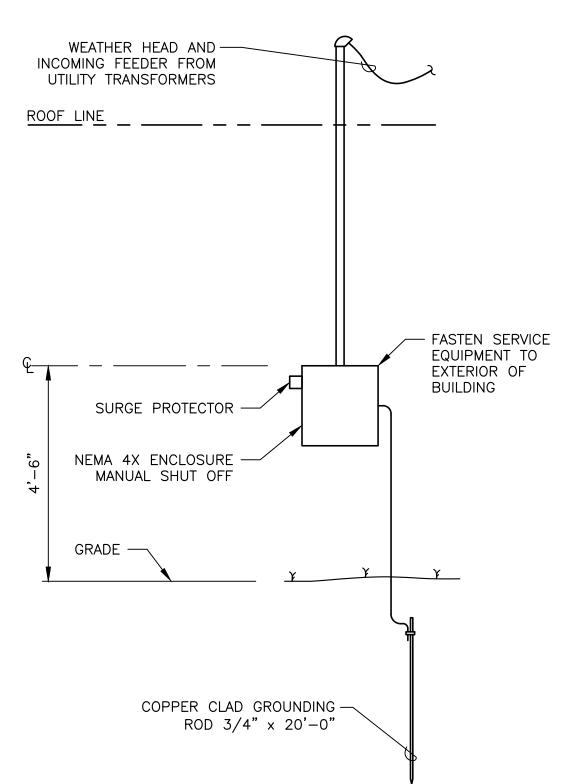


NOTES:

- 1. COORDINATE ALL INCOMING SERVICE WORK WITH UTILITY COMPANY INCLUDING PROVIDING FEEDERS, CONDUITS, WEATHERHEADS, GROUNDING AND METER INSTALLATION.
- 2. CEILING FANS BY OWNER. CONTRACTOR SHALL PROVIDE FAN READY BOX INCLUDING SUPPLEMENTAL SUPPORT FRAMING.
- 3. ADDITIVE ALTERNATE No.2:
- a. (4) A-1 FIXTURES b. CIRCUIT A12 4. BASE BID CIRCUIT A9 SHALL INCLUDE: (2) A-1 FIXTURES (6) WIRED LIGHTING BOXES ALL WIRE, CONDUIT AND SWITCHING.



PAVILION & RESTROOM BUILDING ELECTRICAL PLAN
SCALE: 1/4" - 1'-0"



LEGEND									
+	DUPLEX RECEPTACLE, 120 VOLT, 20 AMP								
\$	SWITCH								
\$ _s	SWITCH OCCUPANCY/VACANCY SENSOR, LEVITION IPSO2 OR EQUAL								
EXPOSED CONDUIT RUN									
CONCEALED CONDUIT RUN IN WALLS OR CEILING									
屲	DISCONNECT SWITCH - AMPS/POLE/ENCLOSURE								
GFCI	GROUND FAULT CIRCUIT INTERRUPTER								
GW	WEATHER PROOF WITH GFCI, PROVIDE LOCKABLE BOX FOR THE DEVICE								
SPD	SURGE PROTECTIVE DEVICE, SUITABLE FOR SERVICE ENTRANCE, UL 1449 SECOND EDITION, UL 1289. ANSI/IEEE C62.1. 240 KA PEAK SURGE CURRENT RATING PER PHASE SQ D TVS1EMA24A OR EQUAL								
UGE	UNDERGROUND CONDUIT RUN								

Extensions & Details

CALLAHAN
Water Main Replacement &
Electrical Floor Plan TOWN OF CDBG 20 NR Building — Nassau Coun

JOB NO. 0302-31-1 SHEET NO.

ELECTRICAL EQUIPMENT RACK DETAIL

NEMA	NEMA 12						EL "A"			•	10 KAIC			100 AMP MAIN BREAKER 120/240V, 1ø, 3W	
CIRCUIT NO.		NO. POLES			GROUND SIZE	CONDUIT SIZE	REMARKS	CIRCUIT NO.	TRIP AMPS	NO. POLES	VOLT AMPS		GROUND SIZE	CONDUIT SIZE	REMARKS
1	20	1	1300	2-#12	1-#12	3/4"	EXTERIOR RECESSED LIGHTS	2	20	1	1200	2-#12	1-#12	3/4"	RESTROOM LIGHTS & EQUIPMENT
3	20	1	1150	2-#12	1-#12	3/4"	WOMEN'S HAND DRYER (1)	4	20	1	1150	2-#12	1-#12	3/4"	MEN'S HAND DRYER (1)
5	20	1	100	2-#12	1-#12	3/4"	BACK DOOR SAFETY LIGHTING	6	20	1	100	2-#12	1-#12	3/4"	SIDE DOOR SAFETY LIGHTING
7	20	1	2000	2-#12	1-#12	3/4"	RECEPTACLES	8	20	1	2000	2-#12	1-#12	3/4"	RECEPTACLES
9	20	1	300	2-#12	1-#12	3/4"	INTERIOR LIGHTS	10	20	1	2000	2-#12	1-#12	3/4"	RECEPTACLES
11	20	1	100	2-#12	1-#12	3/4"	RESTROOM EXTERIOR LIGHTS	12	20	1	_	2-#12	1-#12	3/4"	ADDITIVE ALTERNATE #2
13	_	_	_	_	_	_	SPARE	14	_	_	_	_	_	_	SPACE
15	_	_	_	_	_	_	SPACE	16	_		_	_	_	1	SPACE
17	_	_	_	_	_	_	SPACE	18	_	_	_	_	_		SPACE

	LUMINAIRE SCHEDULE										
TYPE	MFG	CATALOG No.	DESCRIPTION	LAMP DESCRIPTION	FIXTURE WATTS/LUMENS	VOLTS	MOUNTING	REMARKS			
A-1	LITHONIA	DMW2QMB-L24-3000LM-ACL-WD- MVOLT-GZ10-40K-80CRI	LED INDUSTRIAL LENSED, DAMP LOCATION	LED	27/3,761	120	SURFACE	_			
B-1	LITHONIA	LHQM-LED-R-HO	EXIT SIGN WITH EMERGENCY LIGHTING	LED	4.3/110	120	SURFACE	_			
C-1	LITHONIA	LDN6-35/40-LO6WR-MVOLT-EZ10	RECESSED LIGHTING	LED	44.3/4,000	120	RECESSED	_			
D-1	LITHONIA	TWH LED-10C-1000=40K-T3M -MVOLT-PE-SF=DWHGXD	WALL PACK EXTERIOR EXIT SAFETY LIGHTS	LED	39/3,377	120	SURFACE	PHOTOCELL			

NOTES

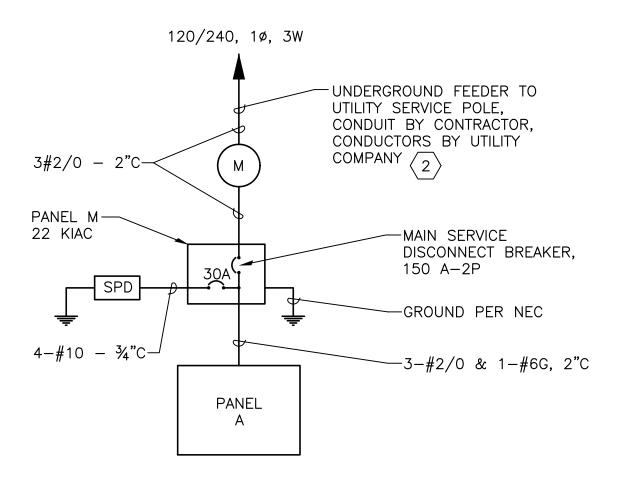
1 PROVIDE GFCI BREAKER FOR THIS CIRCUIT.

2 COORDINATE ALL INCOMING SERVICE WORK WITH UTILITY COMPANY INCLUDING PROVIDING FEEDERS, CONDUITS, WEATHERHEADS, GROUNDING, AND METER INSTALLATION.

GENERAL ELECTRICAL NOTES

- 1. THERE SHALL NOT BE MORE THAN THREE 90 DEGREE TURNS IN ANY CONDUIT RUN. PROVIDE PULL BOXES AS REQUIRED.
- 2. THERE SHALL NOT BE SPLICING OF CONDUCTORS IN ANY RUN WITHOUT ENGINEER'S APPROVAL.
- 3. ALL EXTERIOR ENCLOSURES SHALL BE NEMA 4X STAINLESS STEEL, UNLESS OTHERWISE NOTED. INTERIOR ENCLOSURES SHALL BE NEMA 12.
- 4. RACEWAYS SHALL BE ALUMINUM WHERE EXPOSED WITH LIQUIDTITE FLEXIBLE METAL CONDUIT USED FOR MOTOR CONNECTIONS. NO DIRECT BURIAL CABLE SHALL BE USED.
- 5. ALL RACEWAYS SHALL CONTAIN COPPER, THWN/THHN GROUND CONDUCTOR SIZED IN ACCORDANCE WITH THE NEC, ARTICLE 250, UNLESS OTHERWISE NOTED.
- 6. PROVIDE WEATHERPROOF JUNCTION BOXES WHERE REQUIRED AND IDENTIFY ALL CONDUCTORS IN BOXES.
- ONTRACTOR SHALL COORDINATE ALL WIRE SIZES, BREAKER RATINGS AND EQUIPMENT RATINGS TO MATCH EQUIPMENT SUPPLIED ON THIS PROJECT.
- CONDUIT EXPOSURE: OVERHEAD CONDUITS SHALL BE CONCEALED IN CEILING, CONDUITS TO EXTERIOR OUTLETS SHALL BE CONCEALED IN CMU WALLS AND MAY FEED FROM OVERHEAD, CONDUITS TO INTERIOR WALL FIXTURES SHALL BE EXPOSED.
- 9. CONTRACTOR SHALL PROVIDE LAMPS WHERE NOT INCLUDED WITH FIXTURE.
- 10. CONDUIT:

EXPOSED INTERIOR: FLEXIBLE PVC EXPOSED EXTERIOR: FLEXIBLE METAL, SOLID METAL



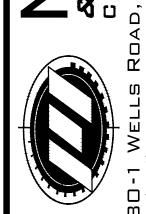
ONE-LINE DIAGRAM

DRWN JSA
PROJ TPN
MGR.

DATE 10/21/21

NO DATE

& ASSOCIATES, INC.
CONSULTING ENGINEER:
COAD, ORANGE PARK, FLORIDA 3207
FAX. (904) 278-0840 FLORIDA GA NO. 656



TOWN OF CALLAHAN CDBG 20 NR Water Main Replacement & Extensions Building — Electrical Schedules & Diagram Nassau County, Florida