

GENERAL NOTES:

- ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON A BOUNDARY & TOPOGRAPHIC SURVEY BY SOUTHEASTERN SURVEYING AND MAPPING (850)-638-0790. GEOTECHNICAL REPORT WAS PREPARED BY MAGNUM ENGINEERING (850)-258-0994. SITE BENCHMARKS ARE IN AREAS OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE BENCHMARKS AND ESTABLISHING NEW BENCHMARKS AS NEEDED THROUGHOUT CONSTRUCTION.
- SURVEY DATUM - NAVD 88
- AT THE PRE CONSTRUCTION MEETING THE CONTRACTOR SHALL DESIGNATE A REPRESENTATIVE WHO SHALL BE CAPABLE OF BEING REACHED 24 HOURS A DAY, 7 DAYS A WEEK.
- UNLESS OTHERWISE INDICATED OR MODIFIED ON THE PLANS ALL ROADWAY AND DRAINAGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, JANUARY 2023, SUPPLEMENTS AND SPECIAL PROVISIONS THERETO.
- WHERE REFERENCE IS MADE TO STANDARD PLANS OR DETAIL, THE FDOT, FY 2023-24 STANDARD PLANS SHALL BE USED AS IF A PART OF THIS PLAN. FOR STANDARD PLANS MODIFICATIONS CLICK ON "STANDARD PLANS" AT THE FOLLOWING WEB SITE: <http://www.fdot.gov/design/standardplans/>
- THE CONTRACTOR SHALL SUBMIT A POST-CONSTRUCTION CERTIFICATION AND REPRODUCIBLE RECORD DRAWINGS TO THE ENGINEER PRIOR TO INSPECTION AND ACCEPTANCE. THE RECORD DRAWINGS SHALL BE PREPARED AND CERTIFIED BY A PROFESSIONAL LAND SURVEYOR.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE DISCOVERY OF ANY ERRORS AND/OR OMISSIONS IN THE PLANS OR SPECIFICATIONS. THE ENGINEER WILL MAKE SUCH CORRECTIONS AND INTERPOLATIONS AS DEEMED NECESSARY REFLECTING THE ACTUAL SPIRIT AND INTENT OF THE PLANS AND SPECIFICATIONS.
- THE FOLLOWING PERMITS/APPROVALS HAVE OR WILL BE OBTAINED FOR THIS PROJECT:
 - CITY OF CRESTVIEW COMMERCIAL DEVELOPMENT ORDER
 - FDEP WATER MAIN EXTENSION PERMIT
 - FDEP DOMESTIC WASTEWATER COLLECTION/TRANSMISSION SYSTEM PERMIT
- THE CONTRACTOR SHALL CONFINE ALL WORK WITHIN THE BOUNDARIES, EASEMENTS AND RIGHT OF WAY OWNED BY THE DEVELOPER, THE CITY, THE STATE, OR THE COUNTY. NO TRESPASSING IS ALLOWED.
- MAINTENANCE OF TRAFFIC FOR CONSTRUCTION OF DRIVEWAYS SHALL BE IN ACCORDANCE WITH FDOT STANDARD PLAN INDEX 102-600'S .
- ALL WORK IN THE RIGHT OF WAY SHALL BE DONE IN ACCORDANCE WITH THE 2022/2023 ROADWAY & TRAFFIC STANDARD PLANS, THE 2022 STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, THE FDOT DESIGN MANUAL (FDM), AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- NO LANE CLOSURES ARE ALLOWED IN THE RIGHT OF WAY WITHOUT PRIOR WRITTEN AUTHORIZATION. ALL LANES MUST BE REOPENED TO TRAFFIC WITHIN 12 HOURS AFTER RECEIVING NOTIFICATION OF A HURRICANE EVACUATION OR ANY OTHER CATASTROPHIC EVENT AND SHALL REMAIN OPEN FOR THE DURATION OF THE EVACUATION OR EVENT AS DIRECTED BY THE PERMITS MANAGER.
- SIGNAGE MUST BE PLACED AT BOTH ENDS OF A CONSTRUCTION ZONE WITHIN VIEW OF TRAFFIC, ALONG ANY RIGHT-OF-WAY OR PRIVATE STREET ABUTTING THE SITE OF THE CONSTRUCTION ACTIVITY. SIGNAGE MUST INDICATE "CONSTRUCTION ZONE AHEAD" AND REMAIN IN PLACE FOR THE DURATION OF THE CONSTRUCTION ACTIVITY.
- LOADING OR UNLOADING ACTIVITY SHALL BE CONDUCTED OUTSIDE THE COUNTY/STATE/CITY RIGHT-OF-WAY.

CITY OF CRESTVIEW NOTES:

GENERAL REQUIREMENTS

IN ORDER FOR A DEVELOPMENT TO BE ACCEPTED BY THE PUBLIC SERVICES DEPARTMENT THE FOLLOWING CRITERIA MUST BE MET:

- ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF CRESTVIEW'S ENGINEERING STANDARDS MANUAL.
- THE ENGINEER OF RECORD SHALL PROVIDE A SIGNED & SEALED LETTER CERTIFYING THAT ALL DEVELOPMENT IMPROVEMENTS ARE COMPLETE AND CONSTRUCTED PER PLANS, THAT ALL REQUIRED LOCAL, STATE & FEDERAL PERMITS WERE OBTAINED, AND NOTES ANY DEVIATIONS FROM THE APPROVED PLANS WITH EXPLANATIONS. ALL DEVIATIONS SHALL BE SHOWN ON THE AS-BUILT DRAWINGS AND MAY REQUIRE BACKUP CALCULATIONS AND DOCUMENTATION.
- ALL INFRASTRUCTURE IMPROVEMENTS (STREETS, WATER, SEWER, STORMWATER, ETC.) TO BE ACCEPTED BY THE CITY FOR PERPETUAL MAINTENANCE SHALL MEET THE TESTING REQUIREMENTS CALLED FOR IN THE CITY'S ENGINEERING STANDARDS MANUAL, THE CITY'S STANDARD UTILITY SPECIFICATIONS, AND ANY OTHER SPECIFICATIONS AND STANDARDS REFERENCED IN THE ENGINEERING STANDARDS MANUAL.
- ROADWAY TEST RESULTS ARE REQUIRED FOR BOTH PUBLIC AND PRIVATE STREETS.
- ALL UNDERGROUND UTILITIES TO BE ACCEPTED BY THE CITY FOR PERPETUAL MAINTENANCE SHALL BE INSPECTED BY THE CITY PRIOR TO BURIAL.
- WATER AND SEWER LINES MUST BE CLEARED FOR USE BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.
- GRAVITY SEWER LINES TO BE ACCEPTED BY THE CITY FOR PERPETUAL MAINTENANCE SHALL BE INSPECTED BY VIDEO CAMERA AND ONE COPY OF THE VIDEO RECORD PROVIDED TO THE PUBLIC SERVICES DEPARTMENT. ANY PROBLEMS REVEALED BY THE VIDEO SHALL BE CORRECTED BY THE CONTRACTOR/DEVELOPER, TO THE SATISFACTION OF THE PUBLIC SERVICES DEPARTMENT.

TESTING

IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE CITY ALL ROADWAY TEST RESULTS WHICH WILL INCLUDE COMPACTION TESTS FOR THE SUBGRADE, COMPACTION AND THICKNESS OF THE BASE, AND CORE SAMPLES OF THE ASPHALT. ALL TESTS ARE TO BE TAKEN IMMEDIATELY BEFORE THE NEXT LAYER OF THE ROAD CROSS SECTION IS INSTALLED. ANY DEFICIENCIES MUST BE CORRECTED AND RETESTED BEFORE PROCEEDING. TESTING MUST BE PERFORMED BY A QUALIFIED GEOTECHNICAL FIRM. FREQUENCIES ARE AS FOLLOWS:

- CURB-PAD:** TEST AT 300-FOOT INTERVALS, ALTERNATING FROM LEFT SIDE TO RIGHT SIDE AND ANY OTHER LOCATIONS AS DIRECTED BY THE CITY.
- SUBGRADE:** TEST AT 300-FOOT INTERVALS, ALTERNATING FROM LEFT SIDE TO CENTERLINE TO RIGHT SIDE WITH ADDITIONAL TESTS AT ALL INTERSECTIONS, CUL-DE-SACS, MANHOLES, INLETS, DRAINAGE STRUCTURES AND ANY OTHER LOCATIONS AS DIRECTED BY THE CITY.
- BASE:** TEST AT 200-FOOT INTERVALS, ALTERNATING FROM LEFT SIDE TO CENTERLINE TO RIGHT SIDE WITH ADDITIONAL TESTS AT ALL INTERSECTIONS, CUL-DE-SACS, AND OTHER LOCATIONS AS DIRECTED BY THE CITY.
- ASPHALT:** TEST AT 300-FOOT INTERVALS, ALTERNATING FROM LEFT SIDE TO CENTERLINE TO RIGHT SIDE WITH ADDITIONAL TESTS AT ALL INTERSECTIONS, CUL-DE-SACS, AND OTHER LOCATIONS AS DIRECTED BY THE CITY.

THE CITY HAS THE AUTHORITY TO REQUIRE ADDITIONAL TESTING DUE TO WEATHER CONDITIONS.

AS-BUILT RECORD DRAWINGS

UPON COMPLETION OF A DEVELOPMENT, THE CONTRACTOR SHALL PRODUCE AND SUBMIT A SET OF AS-BUILT RECORD DRAWINGS PREPARED BY A FLORIDA REGISTERED LAND SURVEYOR OR THE ENGINEER OF RECORD, THE AMOUNT OF DETAIL ON THE RECORD DRAWINGS SHALL INCLUDE BUT IS NOT LIMITED TO GRAPHIC SCALE, BUILDING FOOTPRINTS, GRADES AND CONTOURS, STREETS AND PARKING LOTS, STORMWATER MANAGEMENT SYSTEMS, UNDERGROUND AND OVERHEAD UTILITIES, APPURTENANCES, AND ANY OTHER INFORMATION DEEMED NECESSARY BY THE CITY. THE ACCEPTANCE OF THE RECORD DRAWINGS BY THE CITY DOES NOT RELEASE THE CONTRACTOR FROM THE LIABILITY OF THE CONSTRUCTION. THE CITY RESERVES THE RIGHT TO VERIFY THE RECORD DRAWINGS PRIOR TO ACCEPTANCE.

- ONE HARD COPY AND ONE ELECTRONIC COPY IN THE LATEST AUTOCAD FORMAT OF THE AS-BUILT DRAWINGS SHALL BE PROVIDED TO THE PUBLIC SERVICES DEPARTMENT.
- AS-BUILT DRAWINGS FOR UTILITIES (STORMWATER, WATER AND SEWER) TO BE ACCEPTED BY THE CITY FOR PERPETUAL MAINTENANCE SHALL CONTAIN THE FOLLOWING:
 - PIPE SIZES, MATERIALS, LOCATIONS, SLOPES AND INVERTS.
 - MANHOLES AND DRAINAGE STRUCTURES (INLETS, RISERS, JUNCTION BOXES, MESS, ETC.) LOCATIONS ALONG WITH TOP AND INVERT ELEVATIONS.
 - WATER AND SEWER SERVICE LINE LOCATIONS WITH A MEASUREMENT FOR EACH OFF A KNOWN LOCATION.
 - LOCATIONS OF FIRE HYDRANTS, VALVES, METERS, BACKFLOW PREVENTERS, AND ANY OTHER APPURTENANCES.

AN ESRI COMPARABLE SHAPEFILE IS ALSO REQUIRED FOR THE ABOVE-MENTIONED UTILITIES. SHAPEFILES SHOULD INCLUDE HORIZONTAL AND VERTICAL DATUM INFORMATION.

CLOSEOUT CHECKLIST

- BEFORE ANY CERTIFICATE OF OCCUPANCY (C.O.) CAN BE ISSUED OR FINAL PLAT RECORDED THE CITY MUST RECEIVE THE FOLLOWING ITEMS (IF APPLICABLE):
- ENGINEER OF RECORD'S CERTIFICATION OF IMPROVEMENTS AND PERMITS.
- AS-BUILT RECORD DRAWINGS.
- ROADWAY TEST RESULTS.
- VIDEO RECORD OF SEWER LINES.
- FDEP CLEARANCE LETTERS FOR BOTH WATER & SEWER.
- WRITTEN ACKNOWLEDGEMENT FROM FDOT THAT ALL PERMIT CONDITIONS (DRIVEWAY, DRAINAGE, UTILITY) HAVE BEEN MET AND ACCEPTED.
- COPY OF THE ERP CERTIFICATION AND REQUEST FOR CONVERSION TO OPERATION TO NFWMD.
- WRITTEN ACKNOWLEDGEMENT FROM ALL JURISDICTIONAL AGENCIES THAT ALL WETLAND PERMIT CONDITIONS HAVE BEEN MET AND ACCEPTED.

WRITTEN EXPLANATIONS ARE REQUIRED FOR THE ABOVE ITEMS THAT ARE NOT APPLICABLE. ITEMS 1 THROUGH 4 MUST BE RECEIVED PRIOR TO REQUESTING A FINAL INSPECTION. UPON REQUEST THE CITY WILL CONDUCT A FINAL INSPECTION AND ANY DEFICIENCIES MUST BE CORRECTED BEFORE ACCEPTANCE.

UTILITY NOTES:

- WARNING: GAS LINE IN AREAS OF CONSTRUCTION.**
- ALL EXISTING UTILITIES MAY NOT HAVE BEEN LOCATED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES AND PROVIDE FOR PROTECTION OF EXISTING UTILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY SUNSHINE ONE, CALL (1-800-432-4770), 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION. ALL UTILITIES INSIDE THE PROPERTY WILL BE THE RESPONSIBLE OF THE OWNER.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH UTILITY PROVIDERS ON RELOCATING ANY EXISTING UTILITIES IN CONFLICT WITH THE PLANS.
- UPON ROUGH GRADING (WITHIN 3 INCHES), THE CONTRACTOR SHALL STOP WORK TO ALLOW FOR INSTALLATION OF UTILITIES. THE CONTRACTOR SHALL CERTIFY THAT THE SITE IS WITHIN THIS TOLERANCE.
- CONTRACTOR TO COORDINATE WITH THE LOCAL UTILITY PROVIDERS ON THE LOCATION OF AND CONNECTION/INSTALLATION OF UTILITIES AND COORDINATE WITH THE BUILDING CONTRACTOR REGARDING ELECTRIC, CABLE, TELEPHONE, ETC...SERVICE LINES FROM THE MAINS TO THE BUILDING.
- GRAVITY SEWER PIPE TO BE SDR 26. PVC WATER PIPE TO BE C900 DR-18 PVC. SEE UTILITY PLAN FOR PIPE SIZES.
- SANITARY SEWER INVERTS AT EACH BUILDING SHALL BE SET NO MORE THAN 2.00 FEET BELOW FINISHED FLOOR ELEVATION.
- THE CONTRACTOR IS TO DETERMINE THE SIZE OF THE SPRINKLER LINE 6" LINE SHOWN ON THE PLANS FOR INFORMATIONAL PURPOSES ONLY.

BID PLANS (CIVIL)

FOR

VINEYARD VILLAGE

FIELD AVENUE WEST

CRESTVIEW, FL

PREPARED FOR:
CITY OF CRESTVIEW
 198 WILSON STREET NORTH
 CRESTVIEW, FL 32536

PROJECT LOCATION



SCALE: 1"=500'

SHEET INDEX

SHEET NO.	SHEET DESCRIPTION	DATE	REVISION
1	COVER SHEET	10/12/23	
2	DEMOLITION AND SWPP PLAN	10/12/23	
3	SITE, PAVING, & STRIPING PLAN	10/12/23	
4	GRADING & DRAINAGE PLAN	10/12/23	
5	UTILITY PLAN	10/12/23	
6	SITE DETAILS	10/12/23	
7	UTILITY DETAILS	10/12/23	
8	ADDITIONAL DETAILS	10/12/23	
9	LANDSCAPE PLAN	10/12/23	
	SURVEY	08/29/22	

CONSTRUCTION SEQUENCE:

- PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE A PRE-CONSTRUCTION MEETING WITH THE OWNER AND ENGINEER OF RECORD.
- PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN AND REVIEW THE DEVELOPMENT ORDER AND OTHER PERMITS WITH THE ENGINEER OF RECORD AND BE KNOWLEDGEABLE OF THE PERMIT REQUIREMENTS.
- INSTALL EROSION CONTROL DEVICES THEN REMOVE EXISTING IMPROVEMENTS AS SHOWN ON SHEET 2 (DEMOLITION & SWPP PLAN) AND CLEAR AND GRUB THE SITE.
- ROUGH GRADE SWMF AND EDNEY DITCH. INSTALL PRIMARY DISCHARGE PIPE AND SANITARY SEWER AT FILED AVENUE CROSSING LOCATION.
- ROUGH GRADE THE REMAINDER OF THE SITE. INSTALL ADDITIONAL EROSION CONTROLS AS NECESSARY TO MAINTAIN THE IMPROVEMENTS AND PREVENT SEDIMENTS FROM WASHING INTO THE STORMWATER POND AND/OR OFF-SITE.
- COORDINATE WITH THE OWNER AND BUILDING CONTRACTOR ON CONSTRUCTION OF THE BUILDING PAD AND BUILDING.
- COORDINATE WITH UTILITY PROVIDERS REGARDING INSTALLATION OF SERVICE LINES, CONDUIT, AND SERVICES.
- INSTALL ON-SITE AND OFF-SITE UTILITIES INCLUDING STORMWATER PIPES AND INLETS.
- CONSTRUCT THE CURB AND GUTTER, BASE, FINE GRADE, AND STABILIZE (SOD) THE DISTURBED AREAS.
- CONSTRUCT THE ASPHALT PAVEMENT.
- CONSTRUCT LANDSCAPING PER LANDSCAPE PLAN. ALL REMAINING DISTURBED AREAS, NOT OTHERWISE NOTED TO BE STABILIZED, SHALL BE SEEDED, MULCHED AND FERTILIZED.

GRASS SEED WILL BE PLANTED USING THE FOLLOWING BLEND.

BAHIA (PENSACOLA OR ARGENTINE)	30 POUNDS/ACRE
BERMUDA	30 POUNDS/ACRE
TEMPORARY SEED	30 POUNDS/ACRE
TOTAL SEEDING RATE	90 POUNDS/ACRE

FROM APRIL THROUGH SEPTEMBER, USE BROWN-TOP OR JAPANESE MILLET AND FROM OCTOBER THOUGH MARCH, ANNUAL RYE GRASS

AFTER SEEDING, APPROXIMATELY TWO INCHES (LOOSE THICKNESS) OF MULCH MATERIAL SHALL BE APPLIED OVER THE SEEDED AREA AND CUT INTO THE SOIL.

- CONSTRUCT STRIPING AND SIGNAGE.
- COORDINATE FINAL CLOSEOUT OF THE PROJECT WITH OWNER & ENGINEER OF RECORD.

EROSION CONTROL NOTES:

- UNLESS OTHERWISE NOTED, ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE SEEDED AND MULCHED.
- THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS. SEDIMENT CONTROL DEVICES SHOWN ON THE PLANS ARE MINIMUM REQUIREMENTS. ALL EROSION AND SEDIMENT CONTROLS SHALL BE IN ACCORDANCE WITH THE "FLORIDA STORM WATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL". ADDITIONAL SEDIMENT CONTROLS MAY BE REQUIRED BY THE LOCAL INSPECTOR TO PREVENT SEDIMENTS FROM LEAVING THE SITE. THESE ADDITIONAL SEDIMENT CONTROLS ARE THE CONTRACTORS RESPONSIBILITY. ADDITIONALLY, STORM WATER RUNOFF IS TO BE CONTROLLED DURING CONSTRUCTION AS TO NOT DETRIMENTALLY AFFECT ADJACENT PROPERTIES.
- THE CONSTRUCTION SITE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD AND SEDIMENTS ONTO THE STREETS. ANY SEDIMENTS OR MUD SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS SHALL BE RECOVERED AND CLEANED IMMEDIATELY.
- IF, DURING CONSTRUCTION OR OPERATION OF THE STORMWATER MANAGEMENT SYSTEM, A STRUCTURAL FAILURE IS OBSERVED THAT HAS THE POTENTIAL TO CAUSE THE DIRECT DISCHARGE OF SURFACE WATER INTO THE FLORIDA AQUIFER SYSTEM, CORRECTIVE ACTIONS DESIGNED OR APPROVED BY A REGISTERED PROFESSIONAL SHALL BE TAKEN AS SOON AS POSSIBLE TO CORRECT THE FAILURE. A REPORT PREPARED BY A REGISTERED PROFESSIONAL MUST BE PROVIDED AS SOON AS PRACTICAL TO THE DEPARTMENT FOR REVIEW AND APPROVAL THAT PROVIDES REASONABLE ASSURANCE THAT THE BREACH WILL BE PERMANENTLY CORRECTED.
- STABILIZATION MEASURES SHALL BE INITIATED FOR EROSION AND SEDIMENT CONTROL ON DISTURBED AREAS AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN SEVEN (7) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.

SITE AND GRADING NOTES:

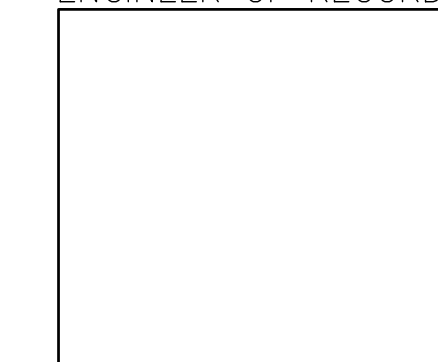
- PIPE LENGTHS SHOWN INCLUDE THE MITERED END SECTIONS.
- UNLESS OTHERWISE NOTED, ALL STRIPING TO BE THERMOPLASTIC.
- MINIMUM COMPACTION FOR FILL SECTIONS SHALL BE 95% MODIFIED PROCTOR. SOIL UNDER ALL STRUCTURES AND PAVED AREAS (MIN. 18" DEPTH) SHALL BE COMPACTED TO 98% MODIFIED PROCTOR. STRUCTURAL FILL SOILS SHOULD BE PLACED IN MAXIMUM 12 IN LIFTS AND COMPACTED TO A MINIMUM SOIL DENSITY OF 98% MODIFIED PROCTOR. THE TOP 12 INCHES OF SUBGRADE SHOULD BE COMPACTED TO A MINIMUM SOIL DENSITY OF 98% MODIFIED PROCTOR. BORROW MATERIAL, IF REQUIRED, IS TO BE PROVIDED BY THE CONTRACTOR AND HAVE A MINIMUM LBR VALUE OF 40. TOPSOIL IS TO BE STRIPPED AND STOCKPILED. FOLLOWING FINAL GRADING, PLACE STOCKPILED TOPSOIL, AS NEEDED, OVER DISTURBED AREA.
- SOIL COMPACTION, ASPHALT, AND BASE IN PLACE TESTING SHALL BE PERFORMED BY A STATE OF FLORIDA REGISTERED GEOTECHNICAL ENGINEER AT THE EXPENSE OF THE CONTRACTOR. DENSITIES FOR FILL MATERIAL, BASE MATERIAL, ASPHALT TESTING, AND OTHER AREAS WITH REQUIRED PERCENT OF COMPACTION SHALL BE TAKEN AT THE RATE OF ONE PER LIFT (6" MAXIMUM COMPACTED THICKNESS) PER 300 SQUARE YARDS. THE CONTRACTOR SHALL COORDINATE TESTING WITH THE ENGINEER TO INSURE COMPLIANCE WITH THE ABOVE REQUIREMENTS.
- THE CONTRACTOR SHALL PROVIDE A DESIGN MIX FOR THE ASPHALT INDICATED AND IT SHALL BE SIGNED BY A PROFESSIONAL ENGINEER CERTIFIED BY FDOT FOR DESIGN OF ASPHALT MIXES. THE MINIMUM COMPACTION FOR ASPHALT SHALL BE 95% OF THE MAXIMUM LABORATORY DENSITY. THE FINISHED SURFACE SHALL BE SMOOTH AND FREE OF TEARS. ANY NONCONFORMING SURFACE SHALL BE SAW CUT AT THE LIMITS OF NONCONFORMITY IN A STRAIGHT LINE AND REMOVED AND REPLACED.
- ANY UNSUITABLE PLASTIC MATERIAL ENCOUNTERED IN THE VEHICULAR USE AREA WITHIN 12 INCHES OF THE BOTTOM OF THE PROPOSED BASE SHALL BE REMOVED AND REPLACED WITH A-3 OR A-2-4 MATERIAL.

OCTOBER 12, 2023

PLANS PREPARED BY:

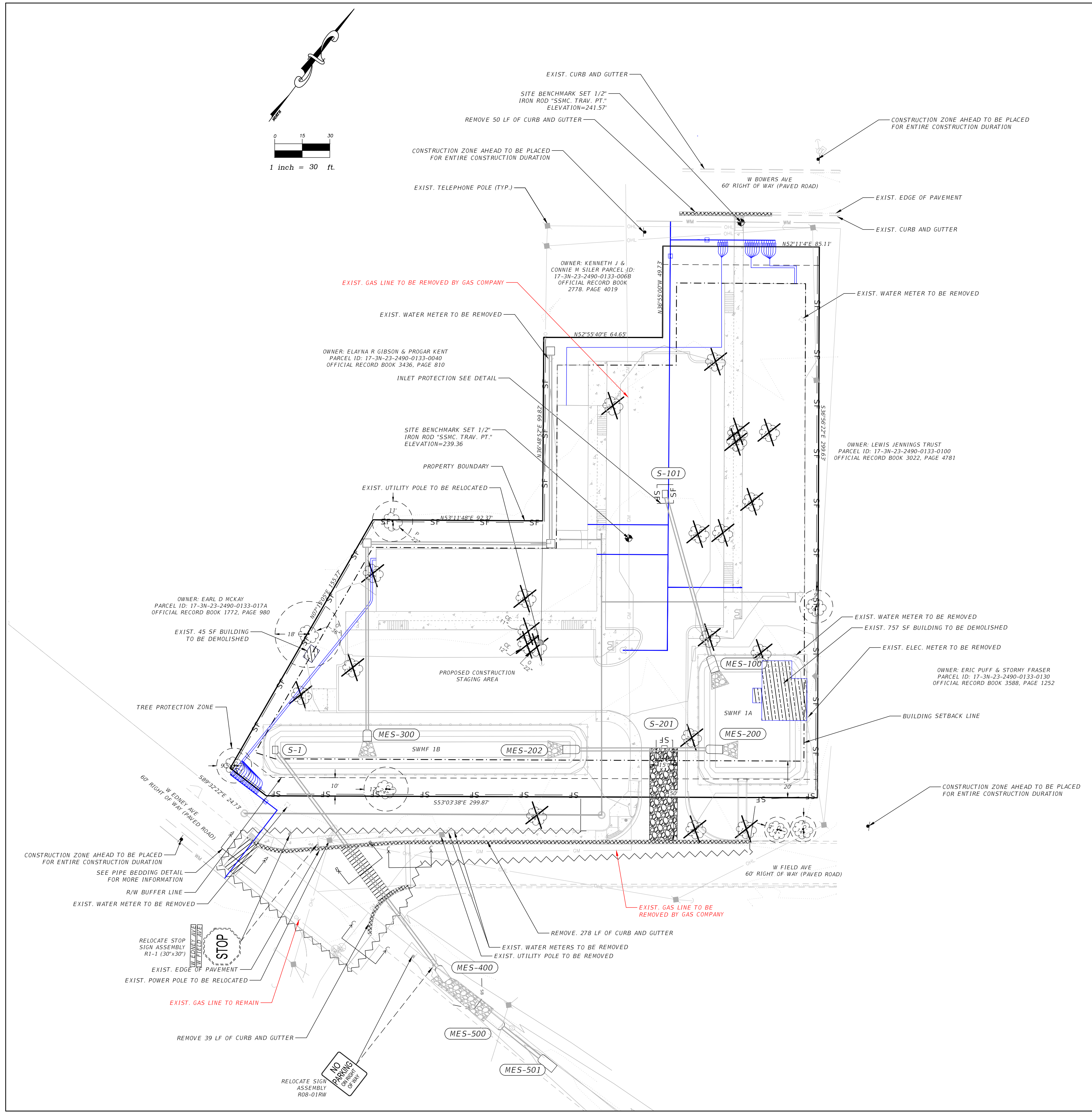
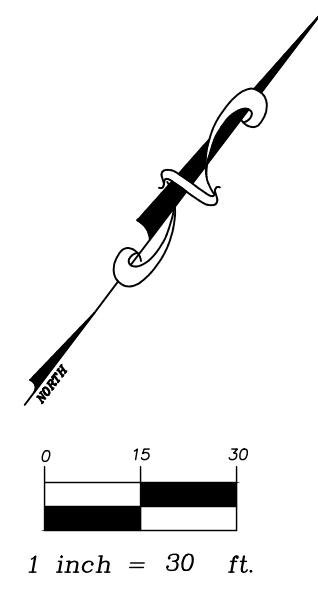
AUG ALDAY-HOWELL
ENGINEERING, INC.
 4100 S. FERDON BLVD SUITE B2
 CRESTVIEW, FL 32536
 PHONE (850) 634-6084 * FAX (850) 526-4740
 E-MAIL : info@aldayhowell.com
 FLORIDA CERTIFICATE OF AUTHORIZATION. NO. 26105

ENGINEER OF RECORD

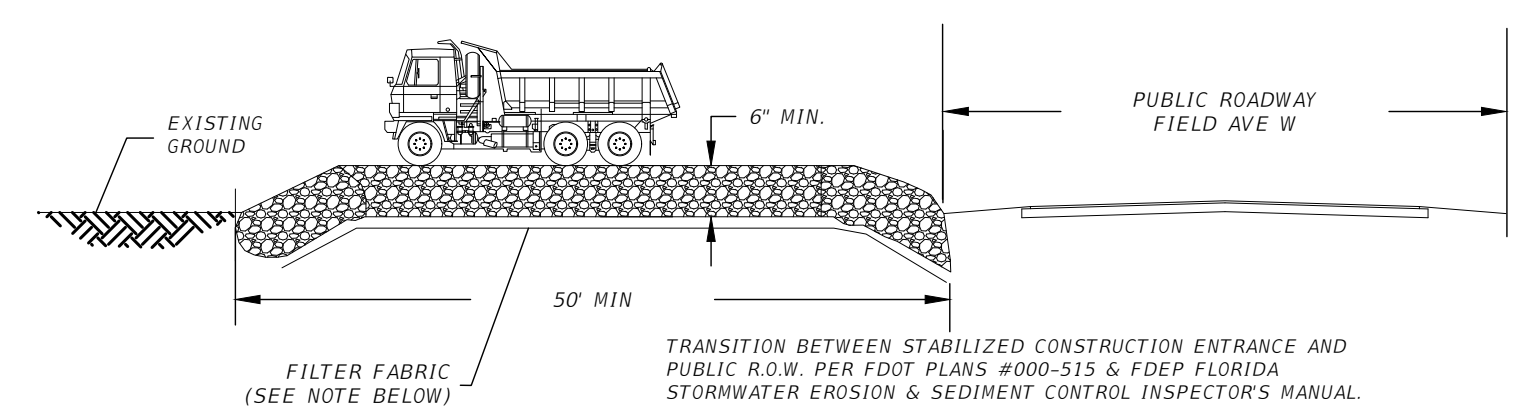


ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN ALTERED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

NOT VALID UNLESS EMBOSSED
 JOHN S. FEENEY, PE
 FLA. LICENSE # 84316



NPDES REQUIREMENTS
 REPORT: THE SEDIMENT AND EROSION CONTROL INSPECTOR SHALL ALSO KEEP A MAINTENANCE RECORD OF INSPECTION DATES AND TIMES. RESULTS OF INSPECTION, ANY REPAIRS THAT WERE NECESSARY, AND ANY ADDITIONAL MEASURES THAT HAVE BEEN ADDED THE SWPPP ALONG WITH THE MAINTENANCE RECORD SHALL BE ON-SITE FOR INSPECTION BY FDEP AND OTHER APPROPRIATE ENTITIES AT ALL TIMES.

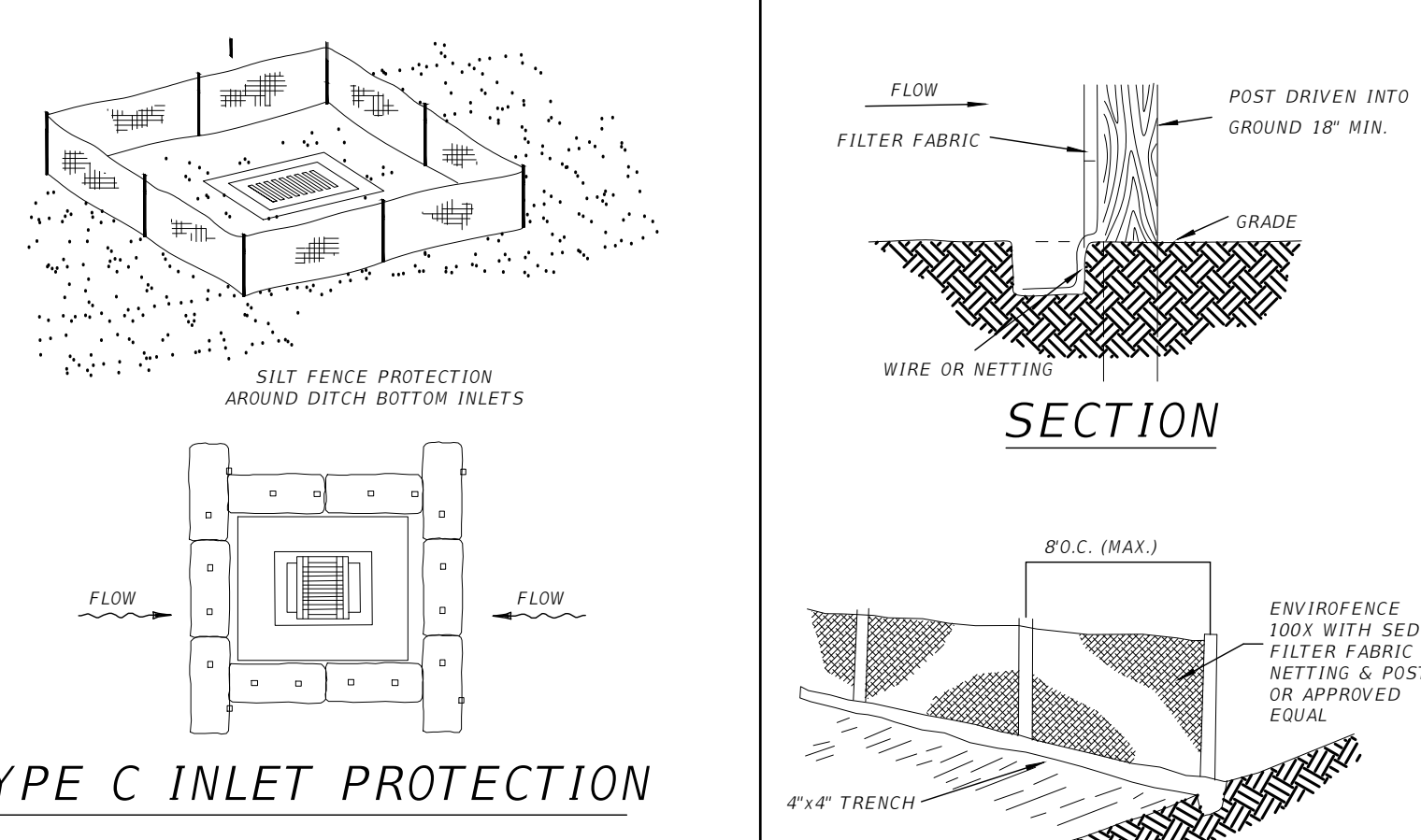
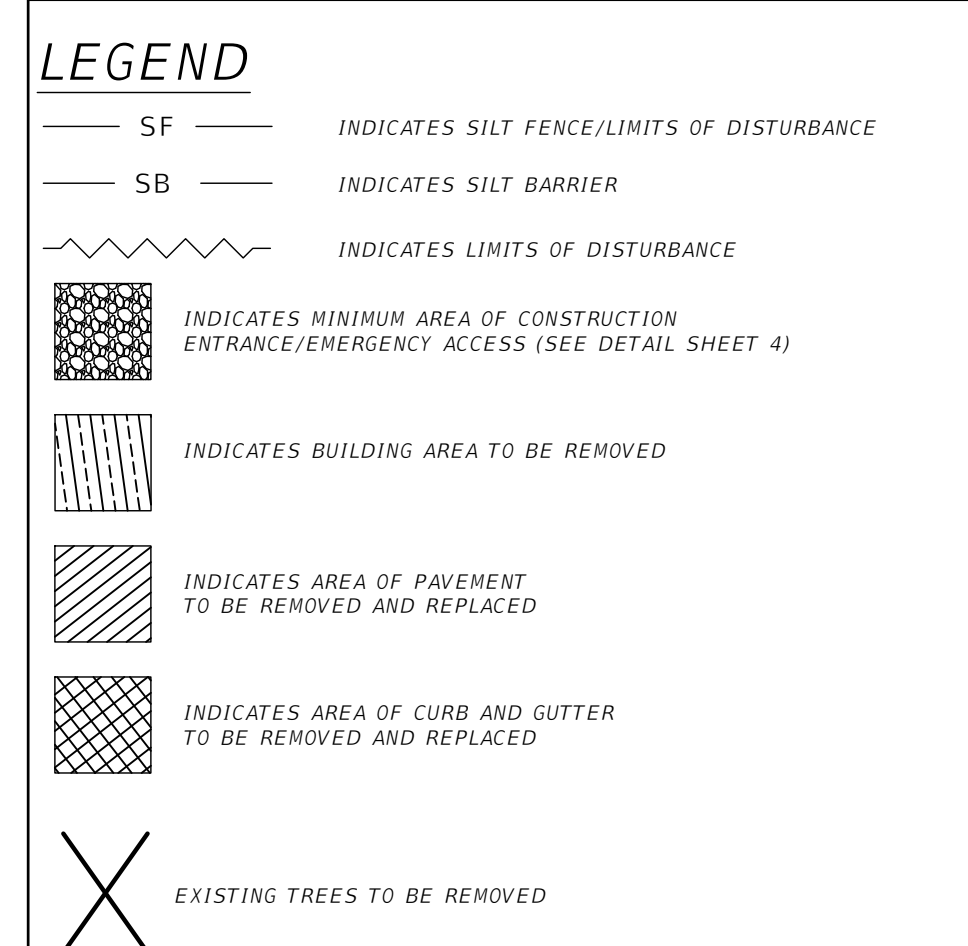


* SOIL TRACKING PREVENTION DEVICE SHALL BE INSTALLED AT THE CONSTRUCTION ENTRANCE TO THE SITE TO PREVENT OFF-SITE TRACKING OF SEDIMENT BY CONSTRUCTION VEHICLES ONTO PUBLIC ROADS. DEVICE SHALL BE 15FT. X 50FT. X 6IN. (MINIMUM) AND STONE SHALL BE FDOT #1. DEVICE SHALL BE UNDERLAIN WITH A FDOT CLASS 3 SYNTHETIC FILTER FABRIC AND APPROPRIATELY MAINTAINED PER FDEP FLORIDA STORMWATER EROSION & SEDIMENT CONTROL INSPECTOR'S MANUAL.

CONSTRUCTION/EMERGENCY ACCESS DETAIL

- I. SITE DESCRIPTION**
- A. CONSTRUCTION ACTIVITY:**
 PROJECT LIMITS:
 NORTH: (BOWERS AVE W, NORTHERN PROPERTY BOUNDARY)
 SOUTH: (FIELD AVE W)
 EAST: (EASTERN PROPERTY BOUNDARY)
 WEST: (WESTERN PROPERTY BOUNDARY)
 PROJECT DESCRIPTION:
 CLEARING & GRUBBING, VEHICLE USE AREA, SWMF, & BUILDING CONSTRUCTION.
- B. MAJOR SOIL DISTURBING ACTIVITIES:**
 CLEARING & GRUBBING, VEHICLE USE AREA, SWMF, & BUILDING CONSTRUCTION.
- C. TOTAL PROJECT AREA:**
 ±1.49 ACRES
- TOTAL AREA TO BE DISTURBED:**
 ±1.92 ACRES + EDNEY DITCH
- D. (1) RAINOFF COEFFICIENTS BEFORE, DURING, AND AFTER CONSTRUCTION:**
 (BEFORE) C = 0.70, (DURING) C = 0.77, (AFTER) C = 0.85
 (2) DESCRIPTION OF SOIL OR QUALITY OF DISCHARGE:
 HURRICANE SAND, SOMEWHAT POORLY DRAINED
 LEON SAND, POORLY DRAINED
 RUTLEDGE FINE SAND, VERY POORLY DRAINED
 (3) ESTIMATE OF SIZE OF DRAINAGE AREA FOR EACH OUTFALL:
 ±4.72 ACRES
- E. FOR LOCATIONS OF DRAINAGE AREAS AND OUTFALLS:**
 SEE SWPP & DEMOLITION PLAN
- F. (1) NAME OF RECEIVING WATERS:**
 N/A
 (2) JURISDICTIONAL AREA:
 N/A
- 2. CONTROLS**
 NARRATIVE - SEQUENCE OF SOIL DISTURBING ACTIVITIES AND IMPLEMENTATION OF CONTROLS FOR THE SOIL DISTURBING ACTIVITIES FOR THIS PROJECT ARE AS FOLLOWS: ONLY UPON PROPER PLACEMENT OF ALL EROSION CONTROLS CAN SOIL DISTURBING ACTIVITIES TAKE PLACE. SILT FENCES OR EQUIVALENT SEDIMENT CONTROLS ARE REQUIRED FOR ALL SIDE SLOPE AND DOWNSLOPE BOUNDARIES OF THE CONSTRUCTION. SEDIMENT CONTROLS SHALL BE USED TO PREVENT DOWN STREAM SEDIMENTATION FROM PROPOSED INLETS AND DITCH CONSTRUCTION AREAS.
- A. EROSION AND SEDIMENT CONTROLS:**
 (1) STABILIZATION PRACTICES:
 TEMPORARY SODDING
 TEMPORARY SEEDING
 PERMANENT PLANTING, SODDING, OR SEEDING
 TEMPORARY MULCHING
 ARTIFICIAL COVERING
 BUFFER ZONES
 PRESERVATION OF NATURAL RESOURCES
 OTHER:
 (2) STRUCTURAL PRACTICES:
 SAND BAGGING
 SILT FENCES
 SEDIMENT BARRIERS
 REBARS
 DIVERSION, INTERCEPTOR, OR PERIMETER DITCHES
 PIPE SLOPE DRAINS
 FLUMES
 ROCK BEDDING AT CONSTRUCTION EXIT
 FIBER BEDDING AT CONSTRUCTION EXIT
 DITCH LINER
 SEDIMENT TRAPS
 SEDIMENT BASINS
 STORM INLET SEDIMENT TRAP
 STONE OUTLET STRUCTURES
 CURBS AND GUTTERS
 STORM SEWERS
 VELOCITY CONTROL DEVICES
 TURBIDITY BARRIER
 RIP RAP
- OTHER:**
 B. DESCRIPTION OF STORMWATER MANAGEMENT:
 DURING SITE CONSTRUCTION, STORMWATER RUNOFF WILL BE DIRECTED TOWARDS THE NEW STORMWATER MANAGEMENT FACILITY AND WILL BE CONTROLLED BY SILT FENCE & OTHER MEASURES.
 C. OTHER CONTROLS:
 (1) WASTE DISPOSAL:
 NO CONSTRUCTION WASTE MATERIAL WILL BE BURIED ON SITE.
 (2) OFFSITE VEHICLE TRACKING:
 PAUL ROADS DAMPENED FOR DUST CONTROL
 LOADED TRUCKS TO BE COVERED WITH TARPULIN
 EXCESS DIRT ON ROAD REMOVED DAILY
 STABILIZED CONSTRUCTION ENTRANCE
 OTHER:
 (1) SANITARY WASTE:
 ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NECESSARY OR AS REQUIRED BY LOCAL REGULATIONS BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR.
 FERTILIZERS AND PESTICIDES:
 (2) FERTILIZERS AND/OR PESTICIDES SHALL BE APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS BY A LICENSED OR CERTIFIED APPLICATOR AS DIRECTED BY THE PROJECT ENGINEER.
 (3) NON-STORMWATER DISCHARGE (INCLUDING SPILL REPORTING):
 NO NON-STORMWATER DISCHARGES ARE ANTICIPATED
 REMARKS: IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED A HAZARDOUS MATERIALS COORDINATOR SHALL BE CONTACTED.
 APPROVED STATE, LOCAL PLANS, OR STORMWATER PERMITS:
 CITY OF CRESTVIEW COMMERCIAL DEVELOPMENT ORDER
 NW/WD 10-2 PERMIT
- 3. MAINTENANCE:**
 ALL OF THE CONTROLS SHALL BE MAINTAINED AT ALL TIMES. IF A REPAIR IS NECESSARY, IT WILL BE DONE AT THE EARLIEST DATE POSSIBLE, BUT NO LATER THAN (7) CALENDAR DAYS AFTER THE SURROUNDING EXPOSED AREA HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE FROM HEAVY EQUIPMENT.
- 4. INSPECTION:**
 ALL CONTROLS SHALL BE INSPECTED WEEKLY BY A QUALIFIED INSPECTOR, AS WELL AS, AFTER 0.5" OR MORE OF RAIN. AN INSPECTION AND MAINTENANCE REPORT IS TO BE MADE PER EACH INSPECTION, BASED ON INSPECTION RESULTS THE CONTROLS ARE TO BE REVISED AS NECESSARY PER THE INSPECTION REPORTS.
- 5. NON-STORMWATER DISCHARGE:**
 THE PERMITTEE SHALL RETAIN COPIES OF THE STORMWATER POLLUTION PREVENTION PLAN AND ALL REPORTS REQUIRED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT, FOR A PERIOD OF AT LEAST (4) FOUR YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED.
- 6. CONTRACTOR/SUBCONTRACTOR CERTIFICATION:**
 I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND AND SHALL COMPLY WITH THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER.
- CONTRACTOR** _____
TITLE _____
SIGNATURE _____
DATE _____

WARNING: GAS LINE IN AREAS OF CONSTRUCTION



EROSION AND SEDIMENT CONTROLS NOTES

- ESCS ARE TO BE CONSTRUCTED IN ALL AREAS WHERE POTENTIAL RUNOFF DURING CONSTRUCTION WILL DISCHARGE OFF-SITE.
- ESCS INCLUDE SILT FENCE, HAY BALES, SILT BARRIERS, ETC. AND SHALL BE PLACED AS NECESSARY IN ACCORDANCE WITH FDOT EROSION AND SEDIMENT CONTROL MANUAL.
- ESCS MAY BE REQUIRED AROUND INLETS UNTIL SITE IS STABILIZED.
- DURING CONSTRUCTION ALL SEDIMENT CONTROLS, STABILIZATION, STORMWATER CONTROLS, ETC. ARE THE RESPONSIBILITY OF THE CONTRACTOR.

Alday-Howell ENGINEERING, INC.
 4100 S. FERDON BLVD, SITE B2
 CRESTVIEW, FL 32556
 PHONE (850) 634-6084 * FAX (850) 526-4740
 E-MAIL : info@aldayhowell.com
 FLORIDA CERTIFICATE OF AUTHORIZATION. NO. 26105

REVISIONS		
DESCRIPTION	INITIALS	DATE

CLIENT:
CITY OF CRESTVIEW

PROJECT:
VINEYARD VILLAGE

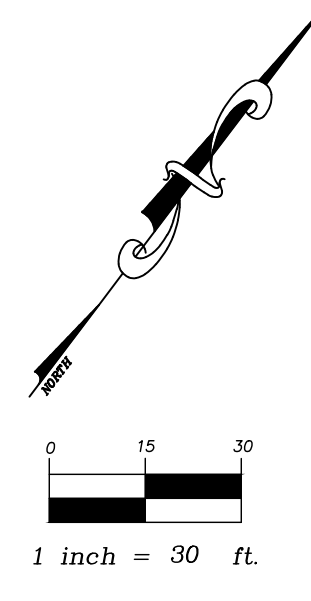
SHEET TITLE:
DEMOLITION & SWPP PLAN

IF THIS LINE DOES NOT MEASURE ONE INCH IN LENGTH, THE SCALES ON THIS DRAWING ARE NOT VALID.

NOT VALID UNLESS EMBOSSED

JOB NO. 22-030
 DRAWN BY NMM
 CHECKED BY JSF
 DATE 10/12/23
SHEET 2

C:\Users\Nathan\Alday-Howell Engineering\22-030 Vineyard Village - General\Drawings\PLAN\RD01.dwg, SWPPP, Nathan, Oct 12, 2023, 11:27:05am



PROJECT DATA

TAX I.D. #17-3N-23-2490-0133-017B, 17-3N-23-2490-0133-0150, 17-3N-23-2490-0133-014D, 17-3N-23-2490-0133-0160, 17-3N-23-2490-0133-006A, 17-3N-23-2490-0133-014A, 17-3N-23-2490-0133-006C, 17-3N-23-2490-0133-014B, 17-3N-23-2490-0133-014E

PROJECT NAME: VINEYARD VILLAGE

OWNER/APPLICANT: 198 S. WILSON STREET CRESTVIEW FL 32536

PLANS PREPARED BY: ALDAY-HOWELL ENGINEERING, INC.
4100 S. FERDON BLVD SUITE B2
CRESTVIEW, FL 32536

PROPOSED BUILD OUT DATE: 150 DAYS FROM ISSUANCE OF PERMITS

SITE DATA

EXISTING USE: VACANT

PROPOSED USE: MIXED USE

PROPOSED BUILDING AREA: 11,526 SF

BUILDING A: 5,712 SF

BUILDING B: 1,734 SF

BUILDING C: 4,080 SF

PROPOSED BUILDING HEIGHT: 2 - STORY

REQUIRED SETBACKS:

BUILDING: FRONT - 20'
SIDE - 7.5'
REAR - 15'

ZONING: IMPERVIOUS AREA RATIO: FLOOR AREA RATIO:

MIXED USE (MU) MAX ALLOWED: 75% MAX ALLOWED: 75%

PROVIDED: 60% PROVIDED: 9%

FUTURE LAND USE:

MIXED USE (MU)

PARKING

REQUIRED PARKING SPACES: 32 SPACES TOTAL PARKING REQUIRED FOR 28 UNITS

PROVIDED PARKING SPACES: 41 SPACES (38 STANDARD, 3 HANDICAP)

REQUIRED BIKE SPACES: 1 RACK/10 STANDARD PARKING SPACES

PROPOSED BIKE SPACES: 38/10 = 4 SPACES REQUIRED

10 SPACES

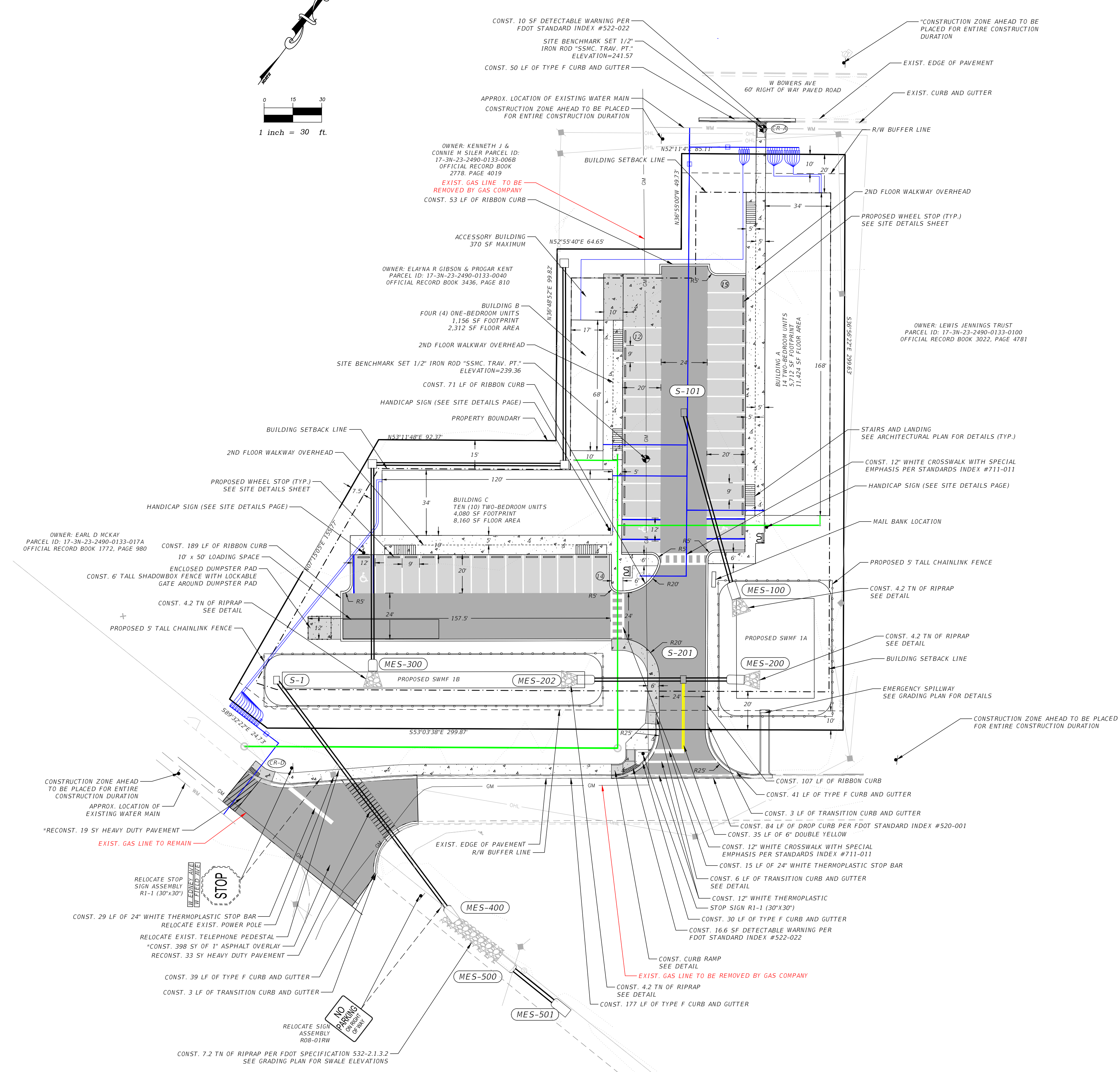
STATISTICAL INFORMATION:

DESCRIPTION	AREA (SF)	AREA (AC)	% COVERAGE
TOTAL AREA OF SITE	61,831	1.42	100
PROPOSED BUILDING FOOTPRINT	11,526	0.26	19
VEHICULAR USE AREA	20,319	0.43	30
SIDEWALK AND MISC. IMPERVIOUS	5,331	0.13	9
STORMWATER FACILITY	8,586	0.19	13
TOTAL IMPERVIOUS (POST) (NOT INCLUDING STORMWATER FACILITY)	37,176	0.85	60

- LEGEND:**
- INDICATES HEAVY DUTY PAVEMENT (SEE DETAIL)
 - INDICATES STANDARD DUTY PAVEMENT (SEE DETAIL)
 - INDICATES 6" CONCRETE PAVEMENT (SEE DETAIL)
 - INDICATES 4" CONCRETE SIDEWALK (SEE DETAIL)
 - INDICATES 1" ASPHALT OVERLAY
 - INDICATES CURB RAMP TYPE PER FDOT INDEX #522-002
 - INDICATES BIKE RACK (SEE DETAIL, SHEET 6)

WARNING: GAS LINE IN AREAS OF CONSTRUCTION

*NOTE: HEAVY DUTY PAVEMENT WITHIN THE EDNEY/FIELD AVENUE INTERSECTION SHALL BE CONSTRUCTED IN TWO LIFTS. THE TOP 1" OF ASPHALT PAVEMENT SHALL BE CONSTRUCTED AS A SEAMLESS OPERATION WITH THE 1" ASPHALT OVERLAY IN THIS AREA. SEE PIPE BEDDING DETAIL FOR MORE INFORMATION.



C:\Users\Nathan\Alday-Howell Engineering\22-030 Vineyard Village - General\Drawings\PLAN\RD01.dwg, SITE, Nathan, Oct 12, 2023 - 11:27:08am

AH ALDAY-HOWELL ENGINEERING, INC.
4100 S. FERDON BLVD, SUITE B2
CRESTVIEW, FL 32536
PHONE (850) 634-6084 * FAX (850) 526-4740
E-MAIL : info@aldayhowell.com
FLORIDA CERTIFICATE OF AUTHORIZATION. NO. 26105

REVISIONS

DESCRIPTION	INITIALS	DATE

CLIENT:

CITY OF CRESTVIEW

PROJECT:

VINEYARD VILLAGE

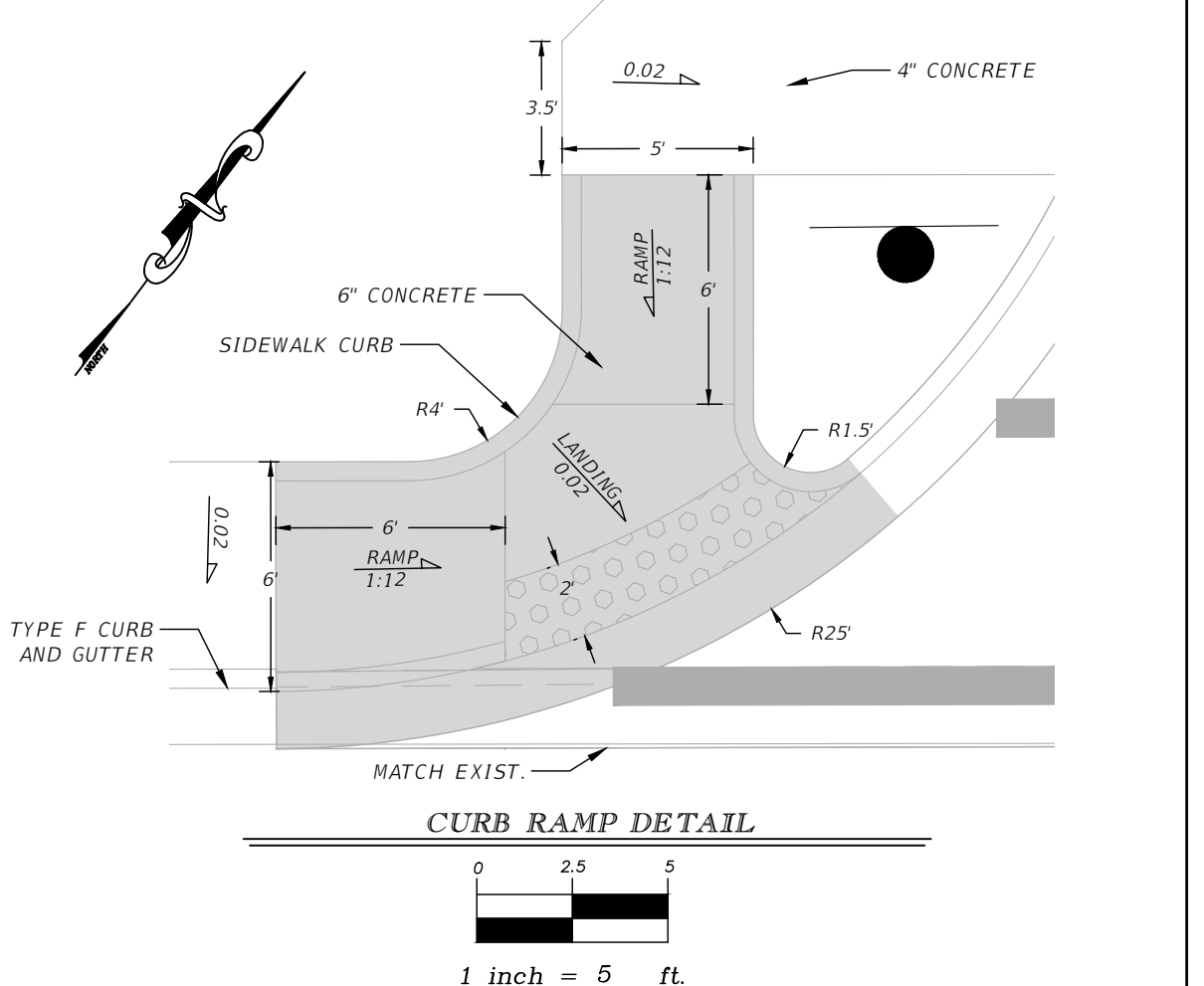
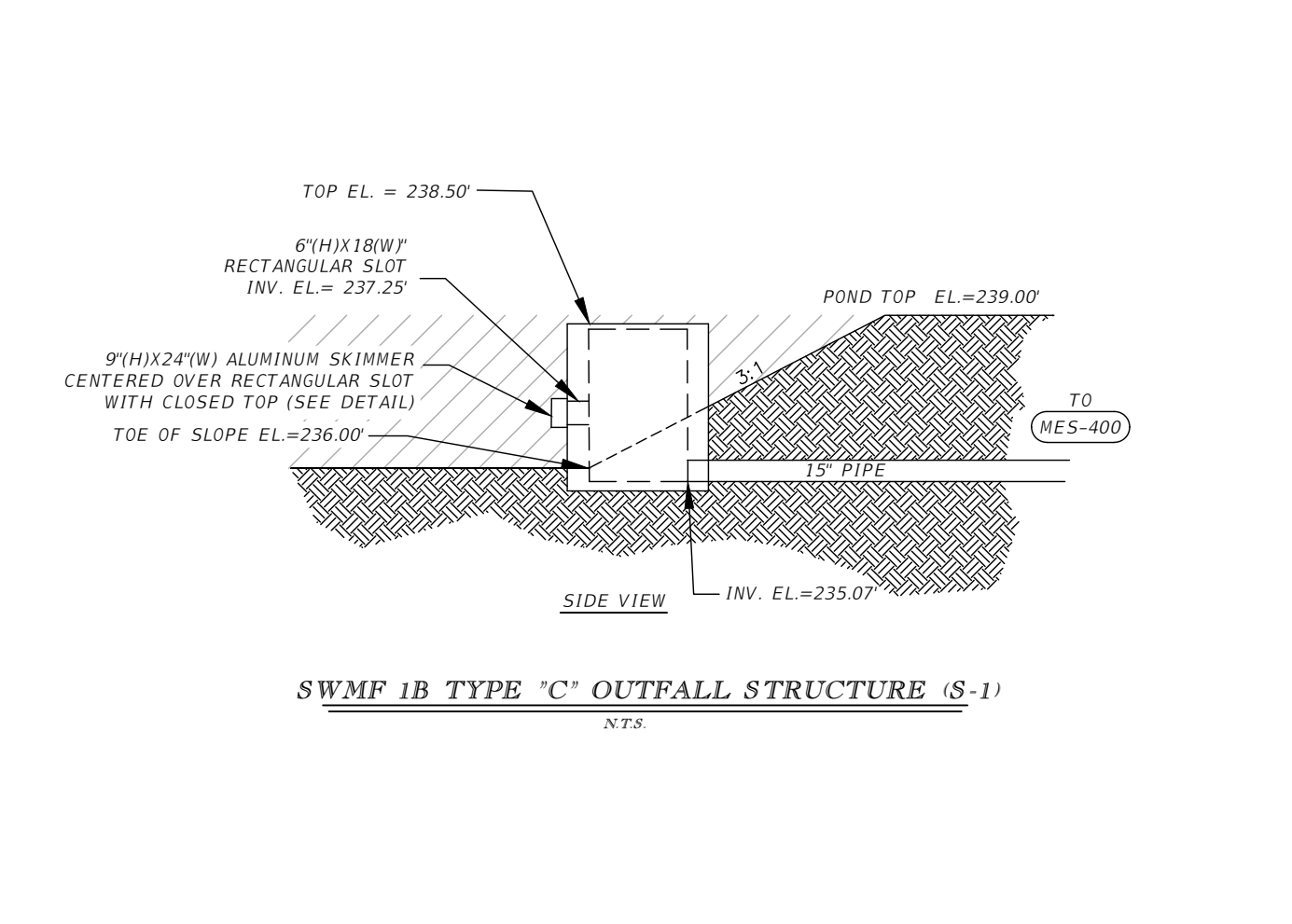
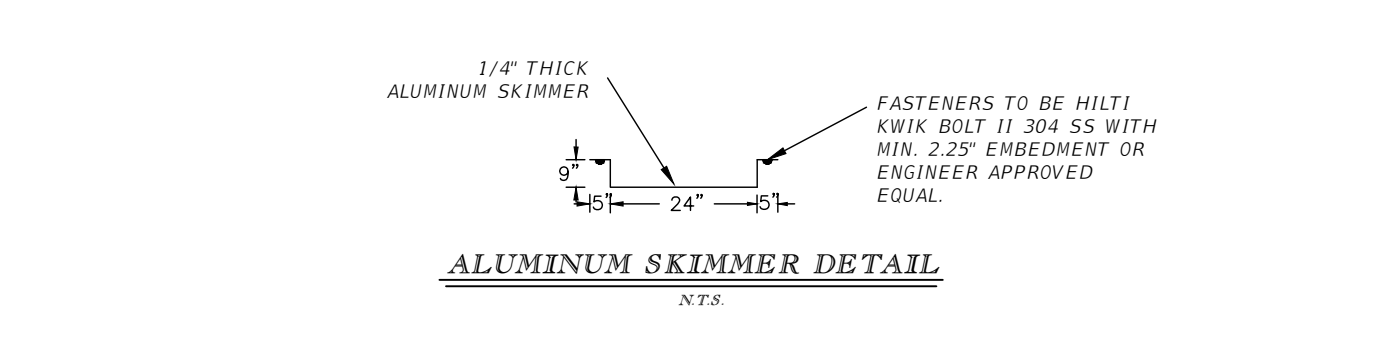
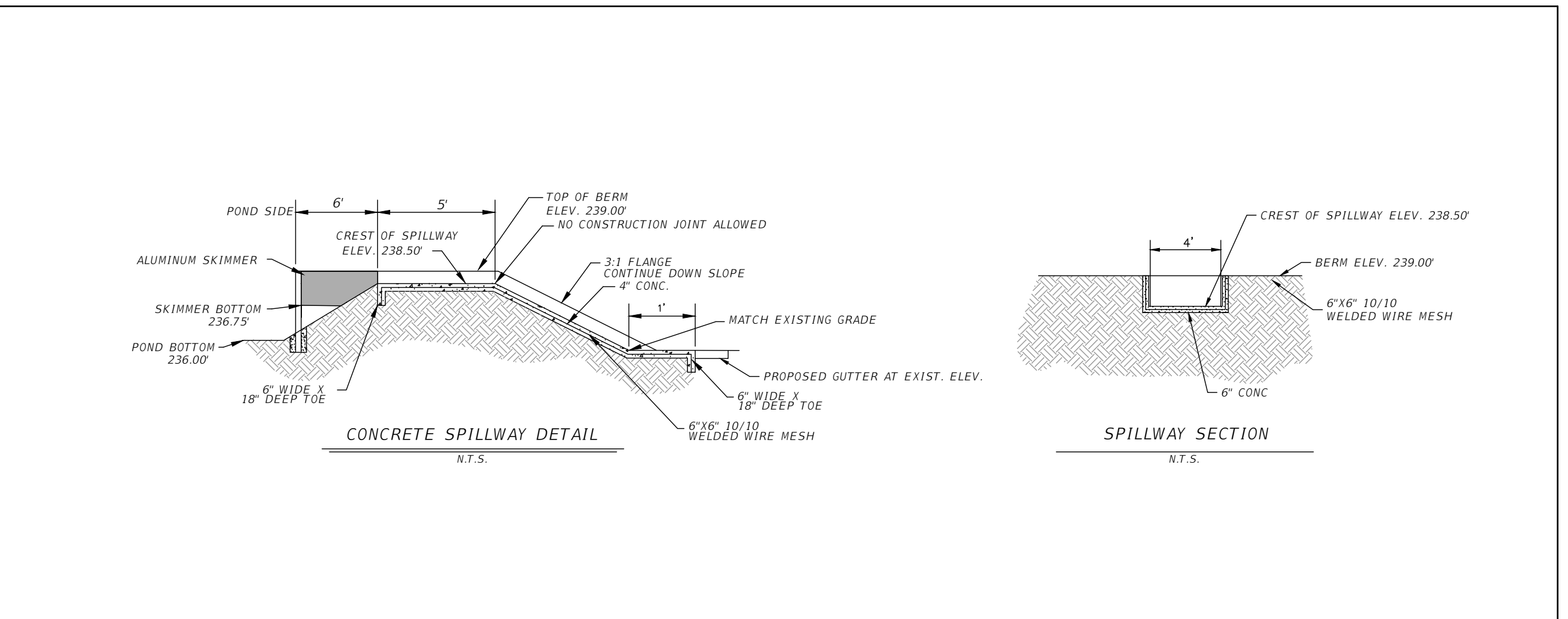
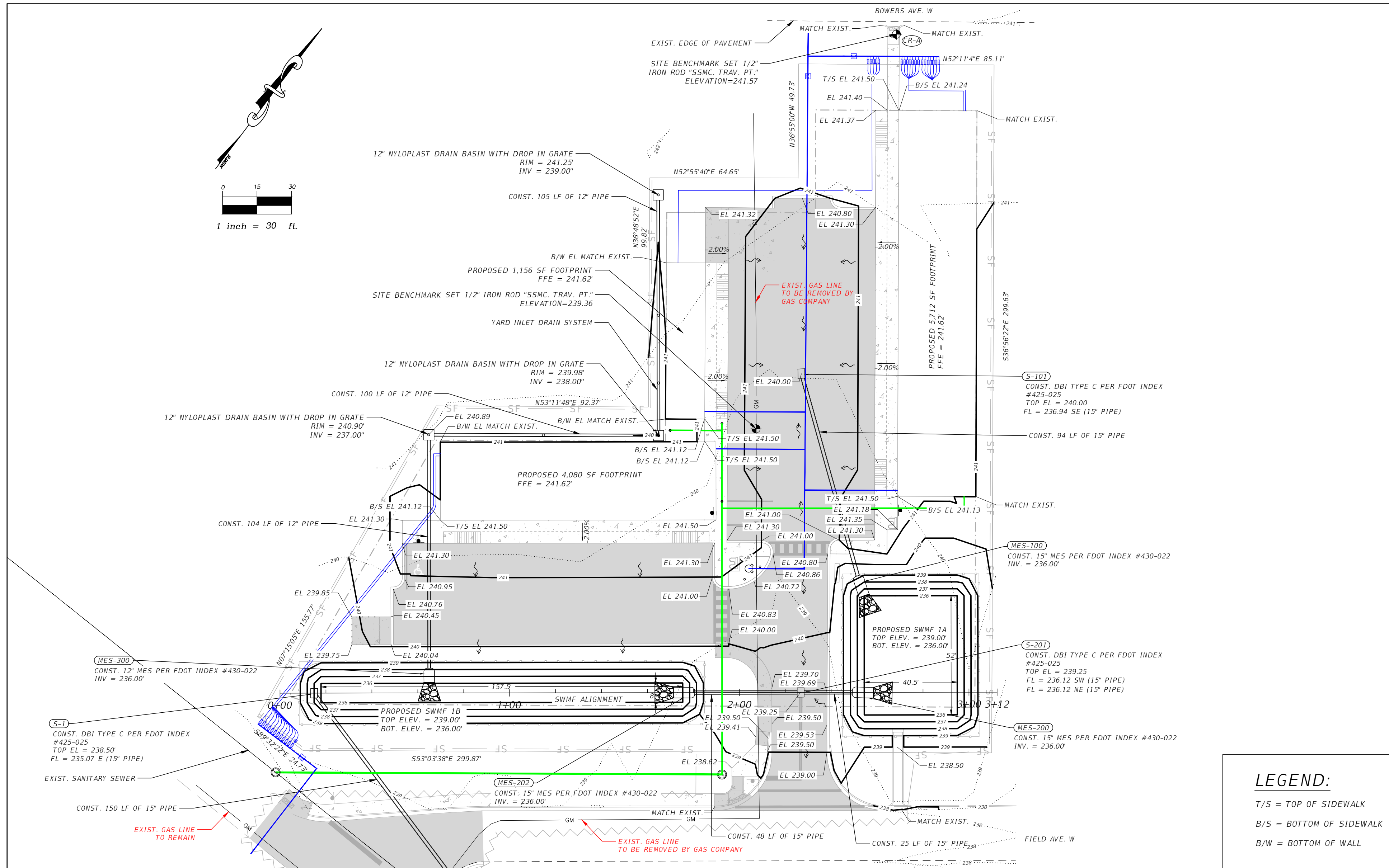
SHEET TITLE:

SITE, PAVING, & STRIPING PLAN

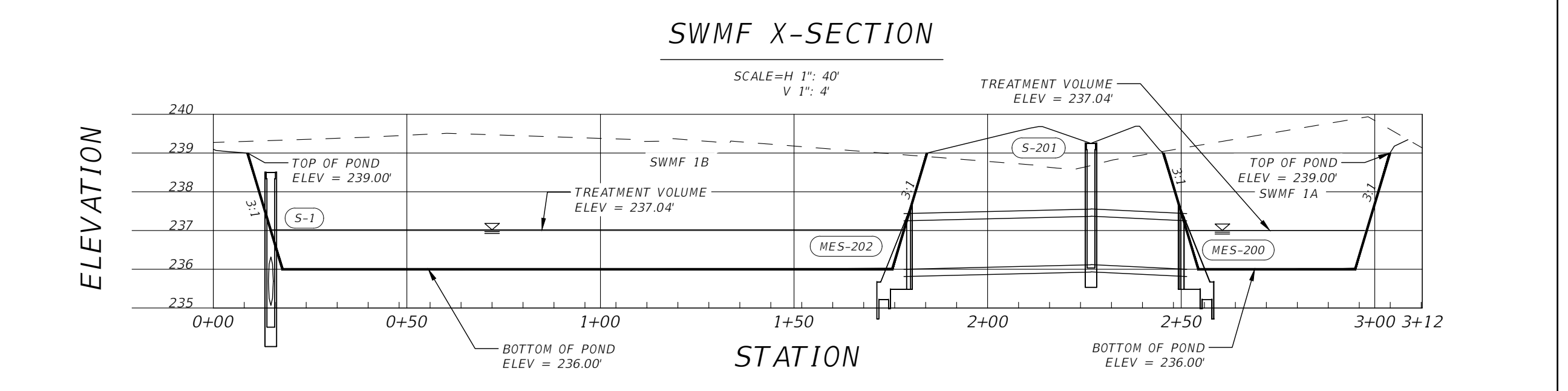
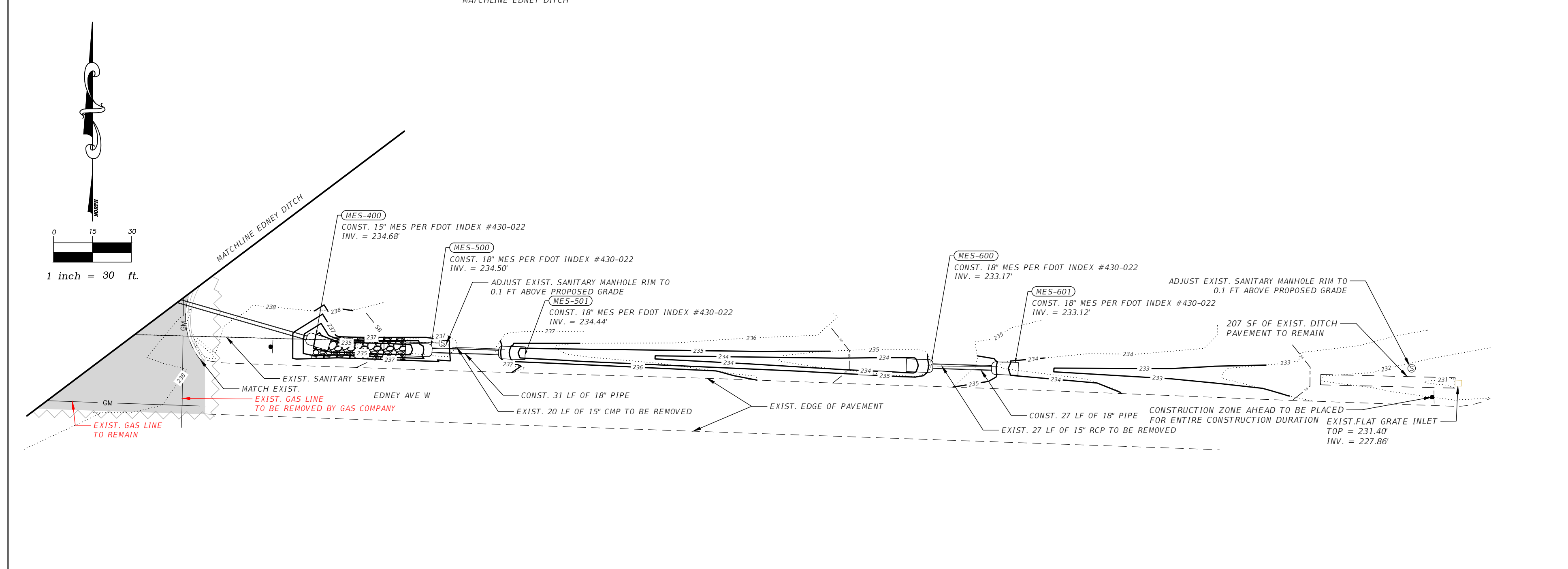
IF THIS LINE DOES NOT MEASURE ONE INCH IN LENGTH, THE SCALES ON THIS DRAWING ARE NOT VALID.

NOT VALID UNLESS EMBOSSED

JOB NO. 22-030
DRAWN BY NMM
CHECKED BY JSF
DATE 10/12/23
SHEET 3



LEGEND:
 T/S = TOP OF SIDEWALK
 B/S = BOTTOM OF SIDEWALK
 B/W = BOTTOM OF WALL



WARNING: GAS LINE IN AREAS OF CONSTRUCTION

AHS ALDAY-HOWELL ENGINEERING, INC.
 4100 S. FERDON BLVD, SITE B2
 CRESTVIEW, FL 32636
 PHONE (850) 634-6084 * FAX (850) 526-4740
 E-MAIL : info@aldayhowell.com
 FLORIDA CERTIFICATE OF AUTHORIZATION. NO. 26105

REVISIONS		
DESCRIPTION	INITIALS	DATE

CLIENT:
CITY OF CRESTVIEW

PROJECT:
VINEYARD VILLAGE

SHEET TITLE:
GRADING PLAN

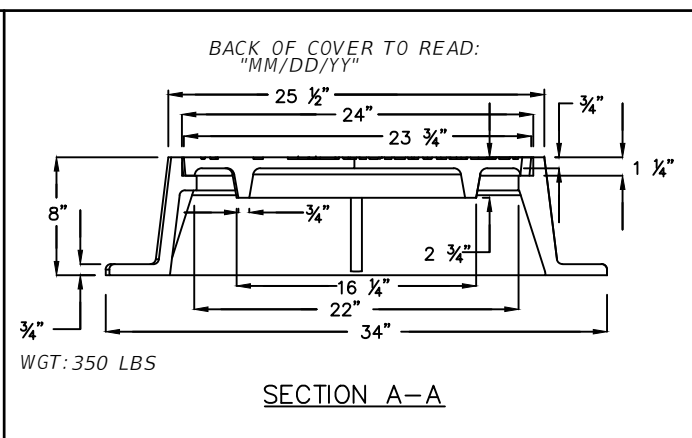
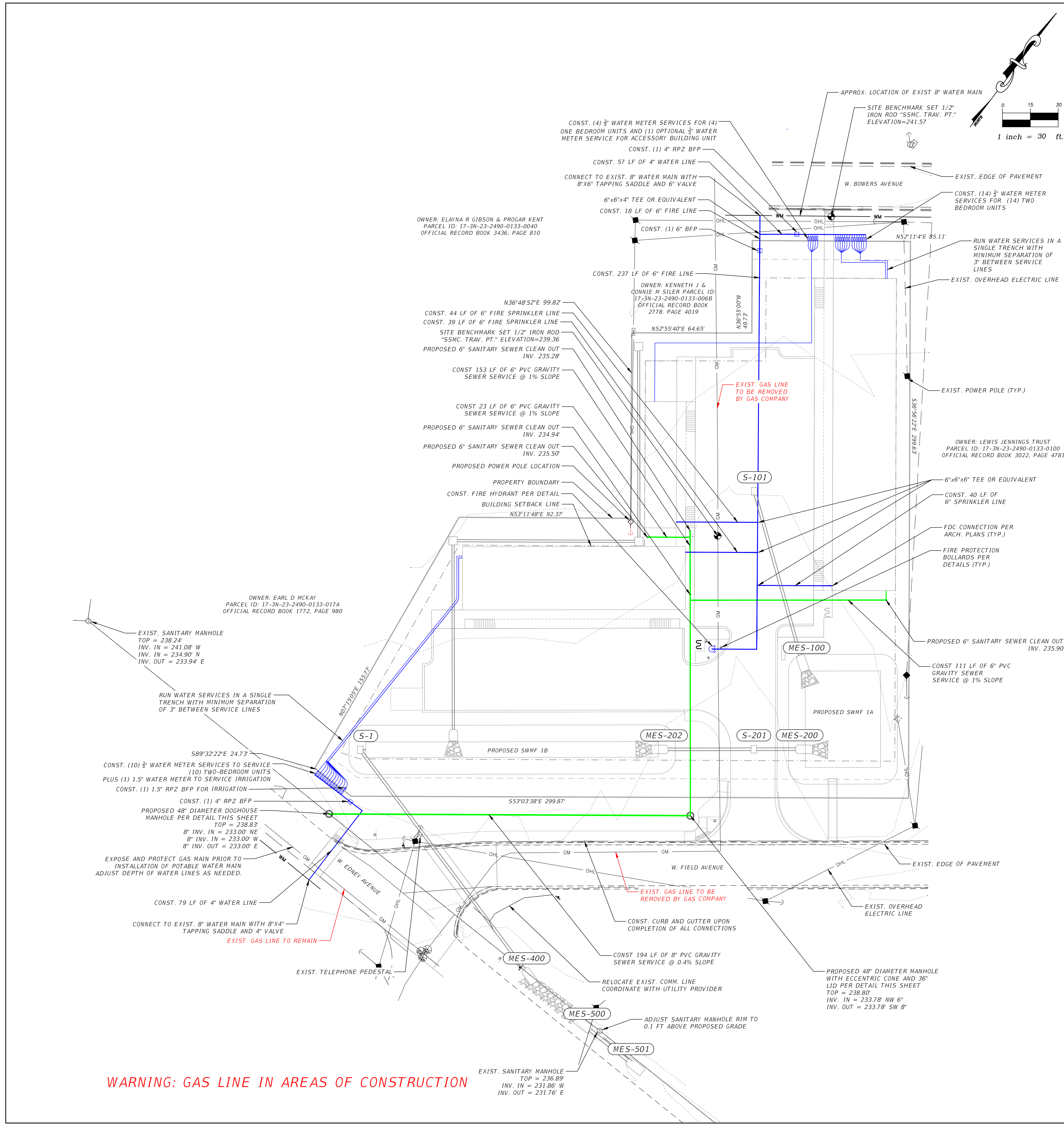
1" SCALE
 IF THIS LINE DOES NOT MEASURE ONE INCH IN LENGTH, THE SCALES ON THIS DRAWING ARE NOT VALID.

NOT VALID UNLESS EMBOSSED

JOB NO. 22-030
 DRAWN BY NCS
 CHECKED BY JSF
 DATE 10/12/23
SHEET 4

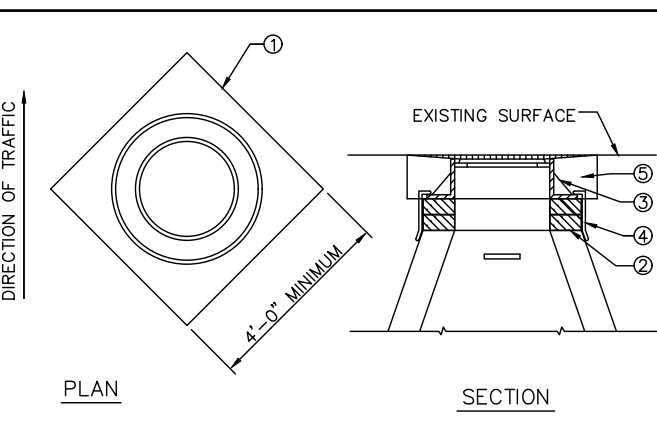
C:\Users\Nathan\Alday-Howell Engineering\22-030 Vineyard Village - General\Drawings\PLANGR001.dwg - PLANGR001.dwg, Oct 12, 2023 - 11:27:21am

C:\Users\Nathan\Alday-Howell Engineering\22-030 Vineyard Village - General\Drawings\PLAN\UT01.dwg, UTILITY PLAN, Nathan, Oct 12, 2023 - 11:27:31am



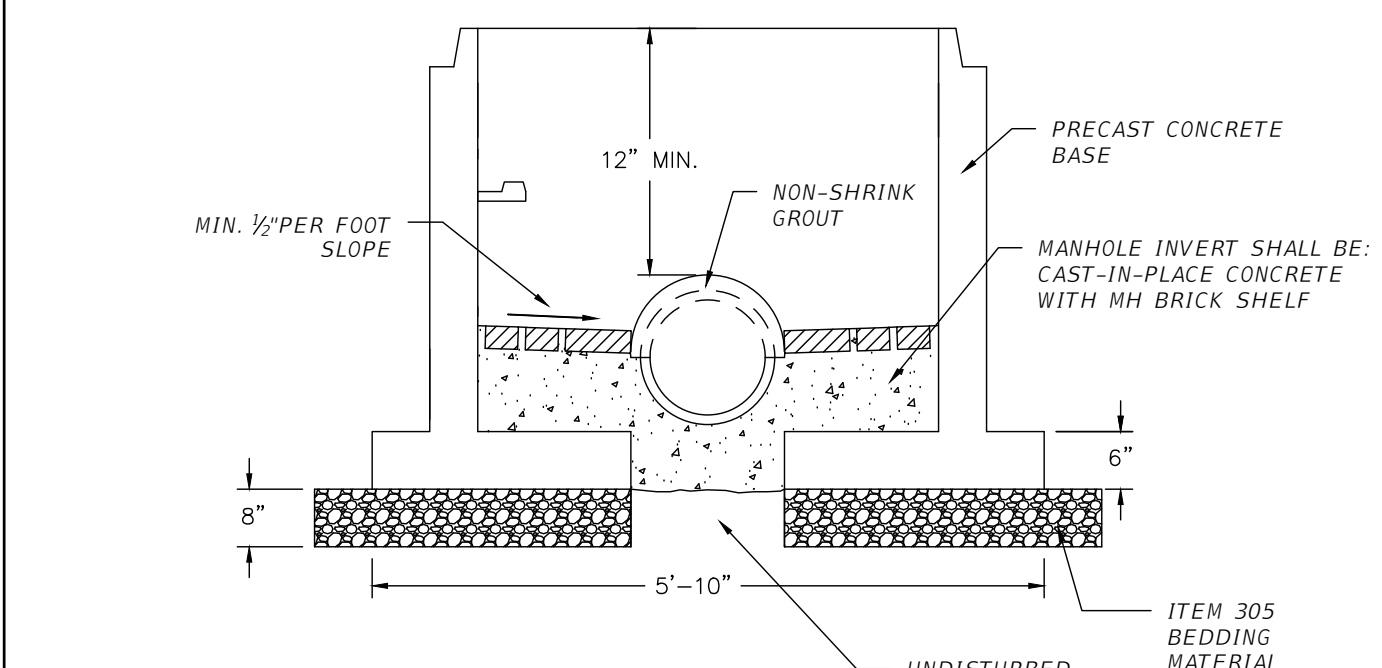
TYPICAL SANITARY SEWER MANHOLE FRAME AND COVER
NTS

NOTES:
1. MINIMUM 4" DIAMETER MANHOLE. SEE PRECAST SANITARY SEWER MANHOLE DETAIL FOR REMAINDER MH DETAILS.
2. DOGHOUSE OPENING MAY ONLY BE USED WHEN PLACING A NEW MANHOLE OVER AN EXISTING LINE; OTHERWISE, THE OPENING MUST BE CAST.
3. OPENINGS IN PRECAST UNITS ARE TO BE 4" MINIMUM TO 8" MAXIMUM LARGER THAN THE OUTSIDE DIAMETER OF THE EXISTING PIPE.
4. TOP HALF OF EXISTING PIPE TO BE REMOVED FOR FULL LENGTH EXPOSED INSIDE MANHOLE. EXISTING MAIN TO BE NEATLY CUT ALONG THE SPRING LINE OF THE PIPE.
5. SEE DETAIL SD523-12 FOR ADDITIONAL INFORMATION.

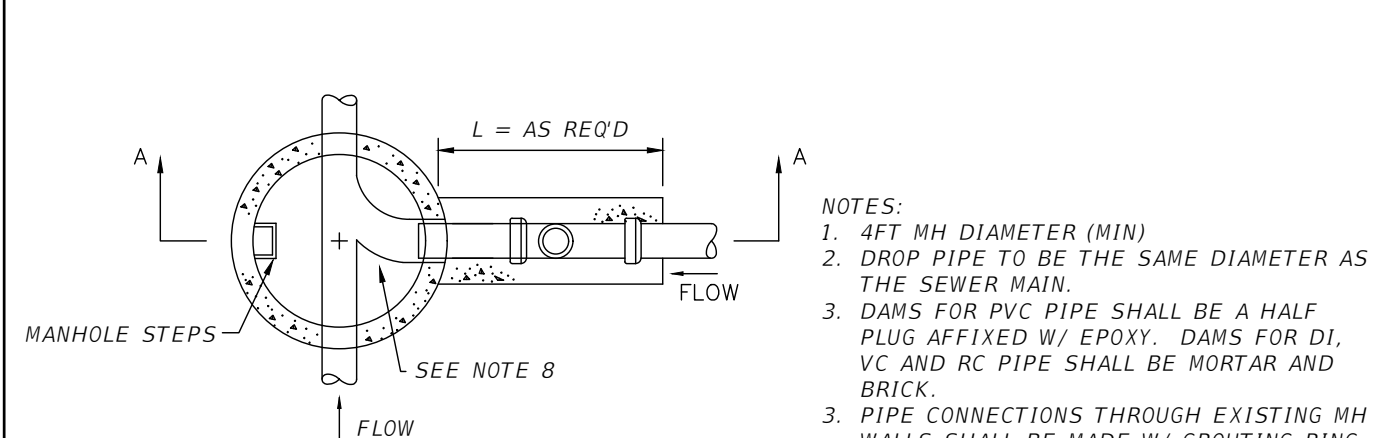


TYPICAL MANHOLE COVER RISING
NTS

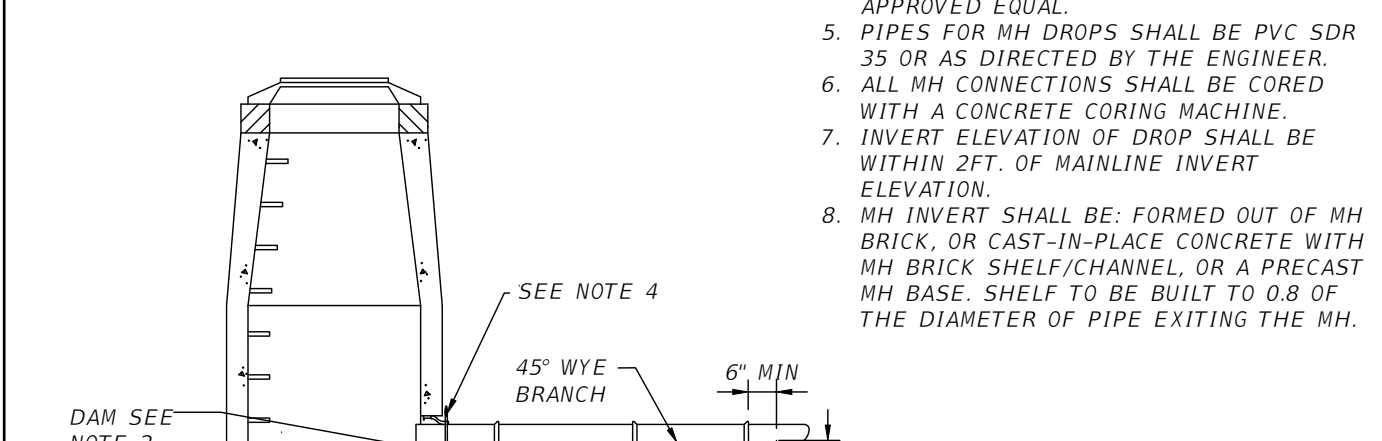
NOTES:
1. CUT AND REMOVE EXISTING PAVEMENT TO NEAT LINES AS SHOWN OR AS DIRECTED. REMOVE BITUMINOUS CONCRETE FROM MANHOLE FRAME AND COVERS. CIRCULAR PAVEMENT CUT AROUND MANHOLE COVER ALSO ACCEPTABLE.
2. REMOVE AND REPLACE EXISTING MORTAR AND MASONRY WHICH IS LOOSE, DETERIORATED OR UNSOUND AS DIRECTED BY THE ENGINEER.
3. SET MANHOLE FRAME TO REQUIRED GRADE WITH MANHOLE GRADE RINGS OR AS DIRECTED BY THE GHWPCA. MANHOLE FRAMES ARE TO BE SET IN FULL MORTAR BEDS.
4. INSTALL EXTERNAL BAND OF FLEXIBLE ELASTOMERIC SEAL, CRETEA OR APPROVED EQUAL.
5. REPLACE PAVEMENT WITH 3" BITUMINOUS CONCRETE CLASS 1 LAID IN TWO COURSES ON 4" BITUMINOUS CONCRETE CLASS 4 LAID ON TAMPED SUBBASE. SEAL PAVEMENT JOINT WITH ASPHALT.
6. CONTRACTOR TO FURNISH NEW MANHOLE FRAME AND COVER AS REQUIRED.
7. EXISTING MANHOLE FRAME AND COVER TO BE DISPOSED OF AS DIRECTED BY THE ENGINEER.



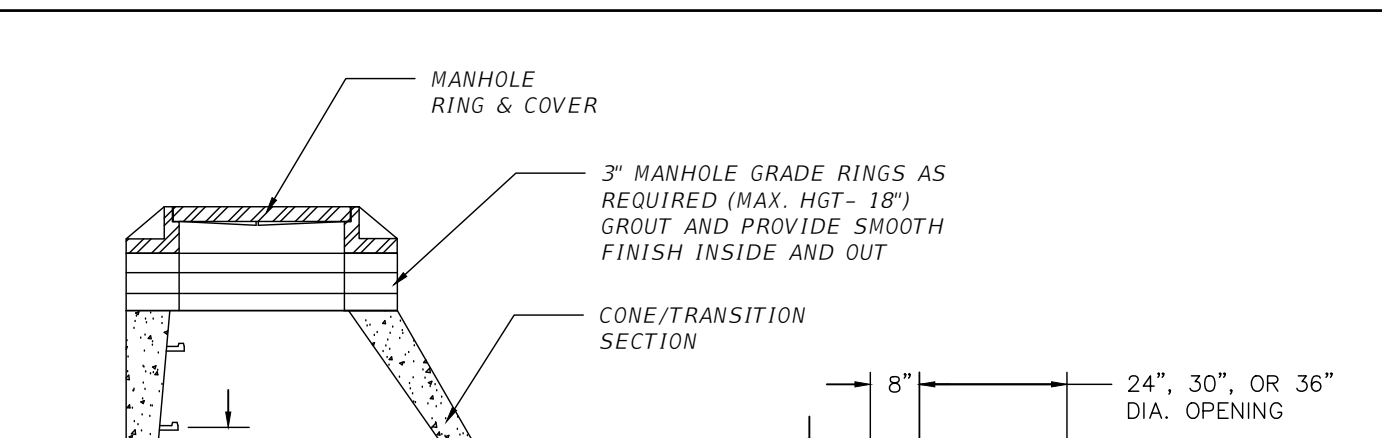
DOGHOUSE MANHOLE BASE
NTS



DROP SANITARY MANHOLE
2 FT. - 5 FT. DROP
NTS

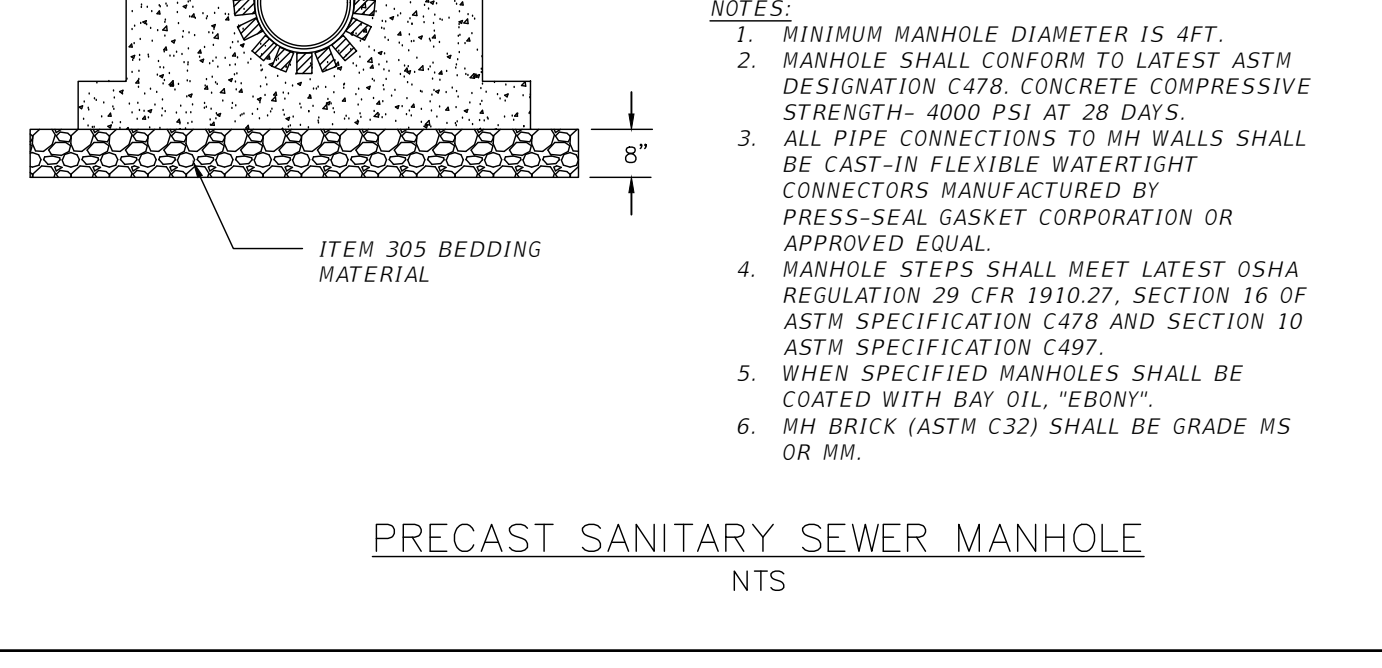


STANDARD SEWER LATERAL CONNECTION
NTS



PRECAST SANITARY SEWER MANHOLE
NTS

NOTES:
1. MINIMUM MANHOLE DIAMETER IS 4FT.
2. MANHOLE SHALL CONFORM TO LATEST ASTM DESIGNATION C478. CONCRETE COMPRESSIVE STRENGTH - 4000 PSI AT 28 DAYS.
3. ALL PIPE CONNECTIONS TO MH WALLS SHALL BE CAST-IN FLEXIBLE WATERTIGHT CONNECTORS MANUFACTURED BY PRESS-SEAL GASKET CORPORATION OR APPROVED EQUAL.
4. MANHOLE STEPS SHALL MEET LATEST OSHA REGULATION 29 CFR 1910.27, SECTION 16 OF ASTM SPECIFICATION C478 AND SECTION 10 ASTM SPECIFICATION C497.
5. WHEN SPECIFIED MANHOLES SHALL BE COATED WITH BAY OIL, "EBONY".
6. MH BRICK (ASTM C32) SHALL BE GRADE MS OR MM.



STANDARD CLEAN-OUT
NTS

NOTES:
1. SANITARY SEWER LATERALS SHALL NOT BE RE-USED.
2. ALL PIPING SHALL BE LAID WITH CARE IN ACCORDANCE WITH CITY OF CRESTVIEW ENGINEERING STANDARDS MANUAL SPECIFICATIONS, AS AMENDED.
3. APPROPRIATE BEDDING AND BACKFILL SHALL BE AS RECOMMENDED BY THE GHWPCA. GRANULAR FILL AND BEDDING MATERIAL SHALL CONFORM TO CRESTVIEW ENGINEERING STANDARDS MANUAL SPECIFICATIONS.
4. SHIELDED COUPLINGS ARE REQUIRED ON ALL DISSIMILAR PIPE TRANSITIONS. COUPLING SHALL BE MISSION FLEX-SEAL ARC COUPLINGS, OR APPROVED EQUAL.
5. NEW LATERALS SHALL BE CONSTRUCTED WITH INTEGRAL WYES. NEW CONNECTION TO EXISTING SEWER MAINS SHALL BE CORED. DRILL CORE SHALL BE PROPER SIZE PER INSERT MANUFACTURER'S RECOMMENDATION. PIPE INSERTS AND SADDLES SHALL BE MANUFACTURED BY INSERTA TEE OR GENERAL ENGINEERING COMPANY GENGENCO'S "SEALTITE TYPE U".
6. IN NEW SUBDIVISIONS AND OTHER CONSTRUCTION INVOLVING NEW ROADS, INSTALL LATERALS TO 6 FEET BEHIND PROPERTY LINE AT A MINIMUM DEPTH OF 5 FEET FOR SEWERS IN STREET RIGHT-OF-WAY.

Alday-Howell ENGINEERING, INC.
4100 S. FERDON BLVD, SITE B2
CRESTVIEW, FL 32636
PHONE (850) 634-6084 * FAX (850) 526-4740
E-MAIL : info@aldayhowell.com
FLORIDA CERTIFICATE OF AUTHORIZATION. NO. 26105

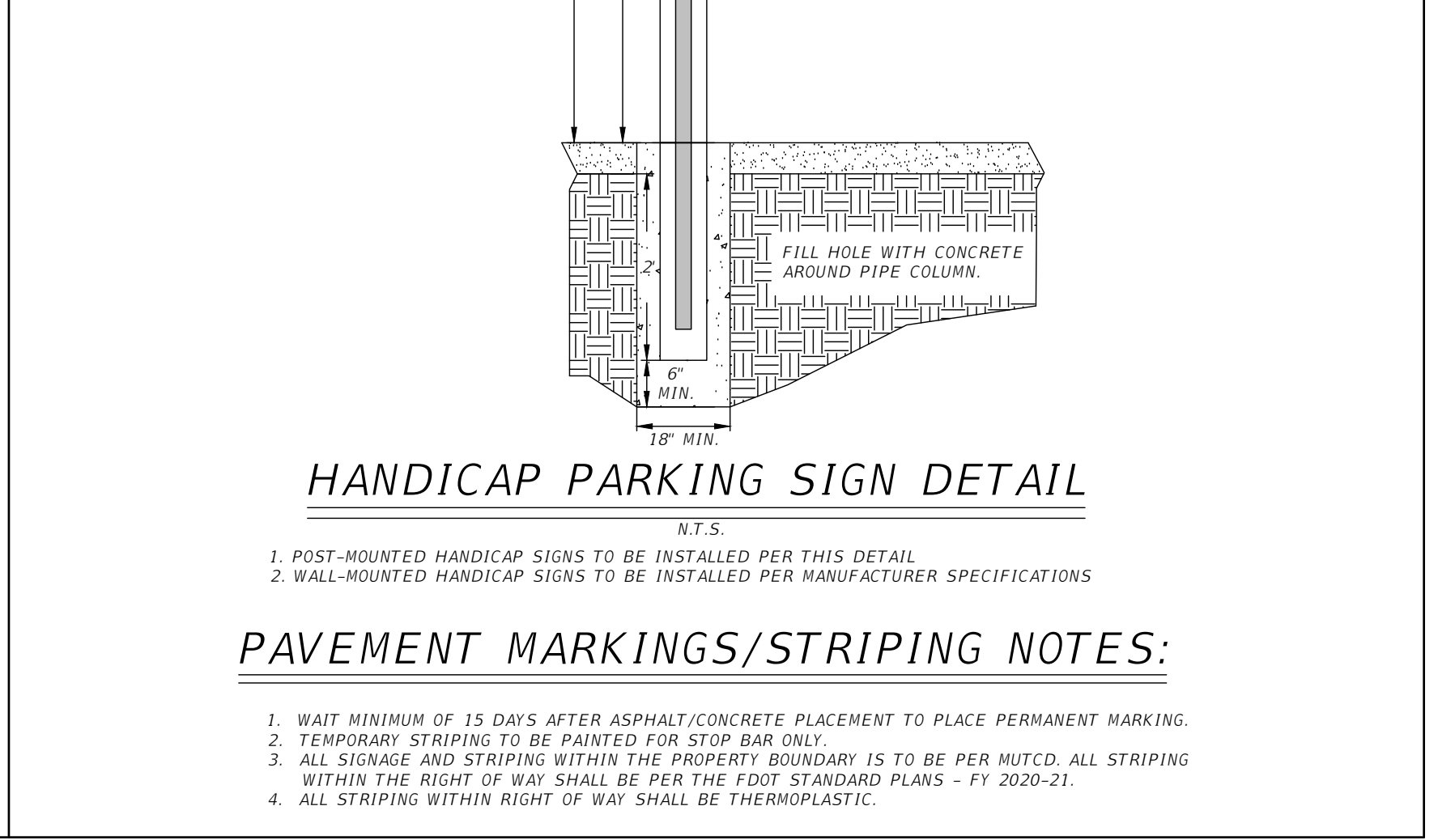
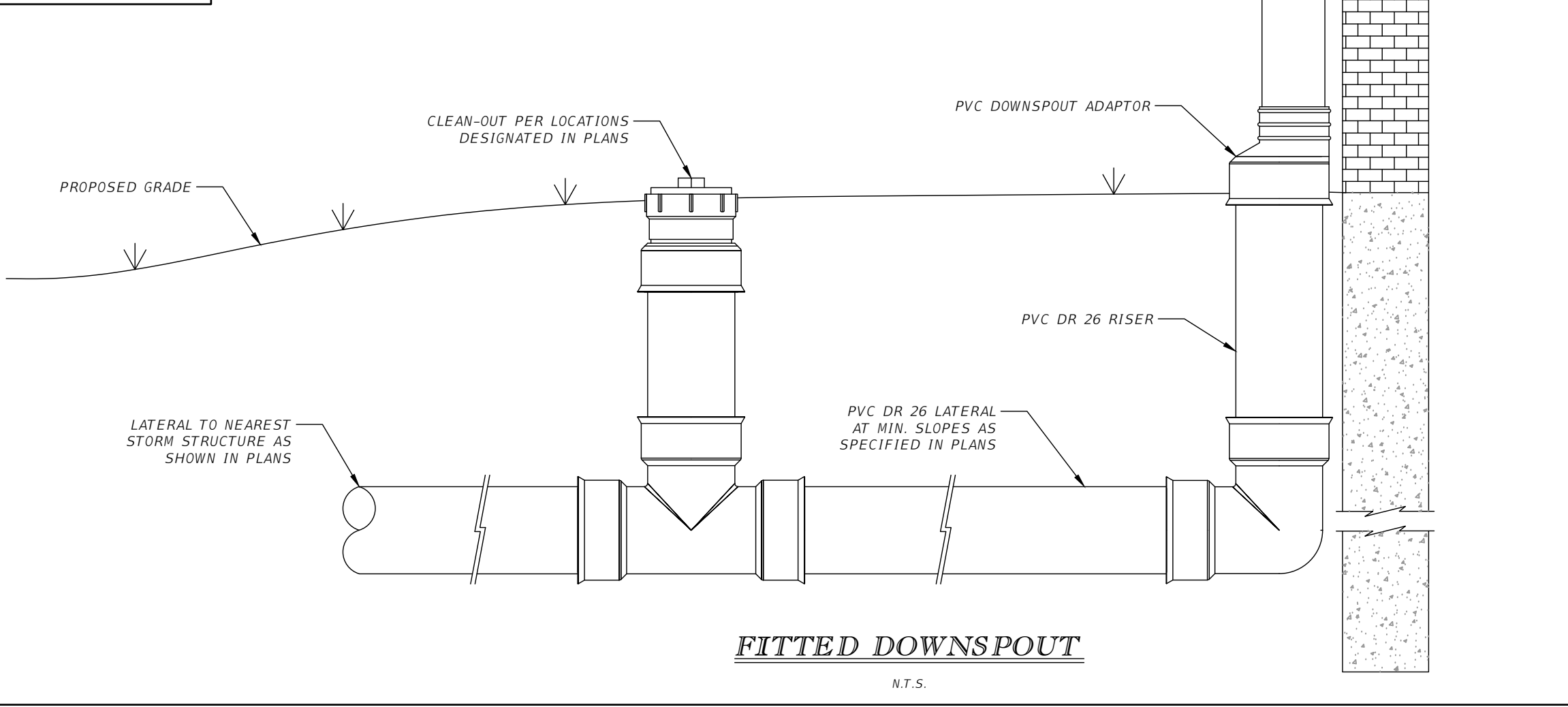
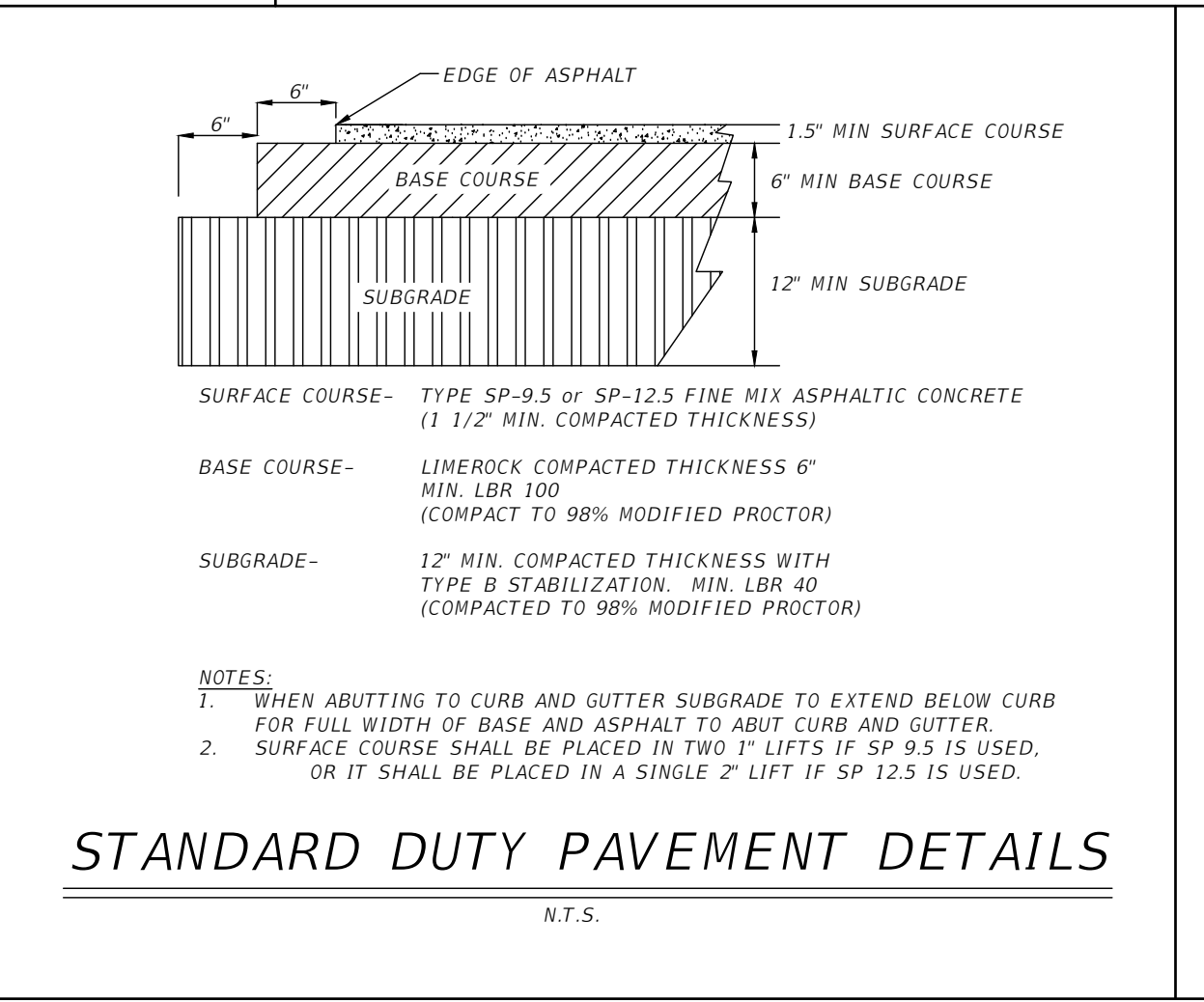
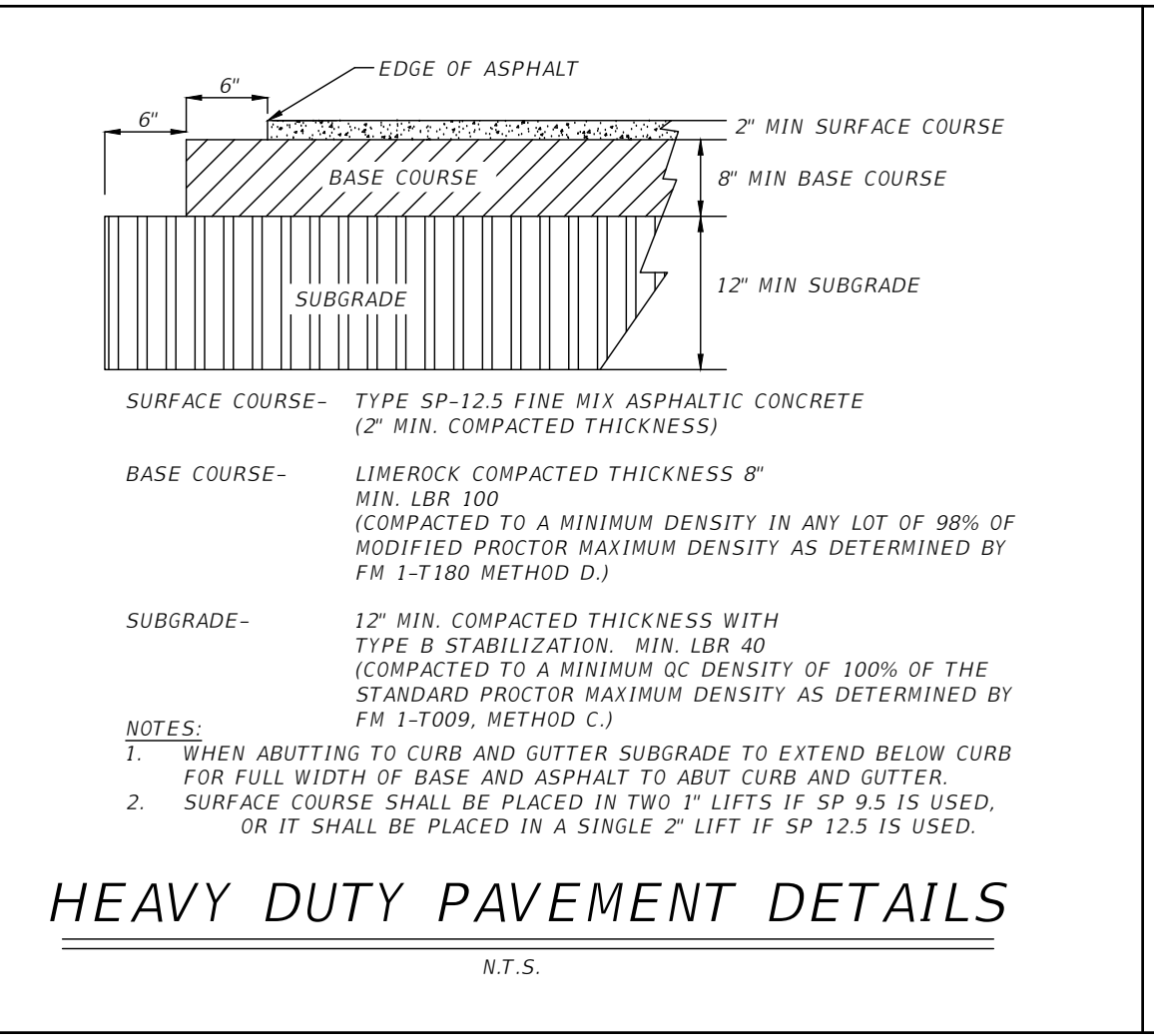
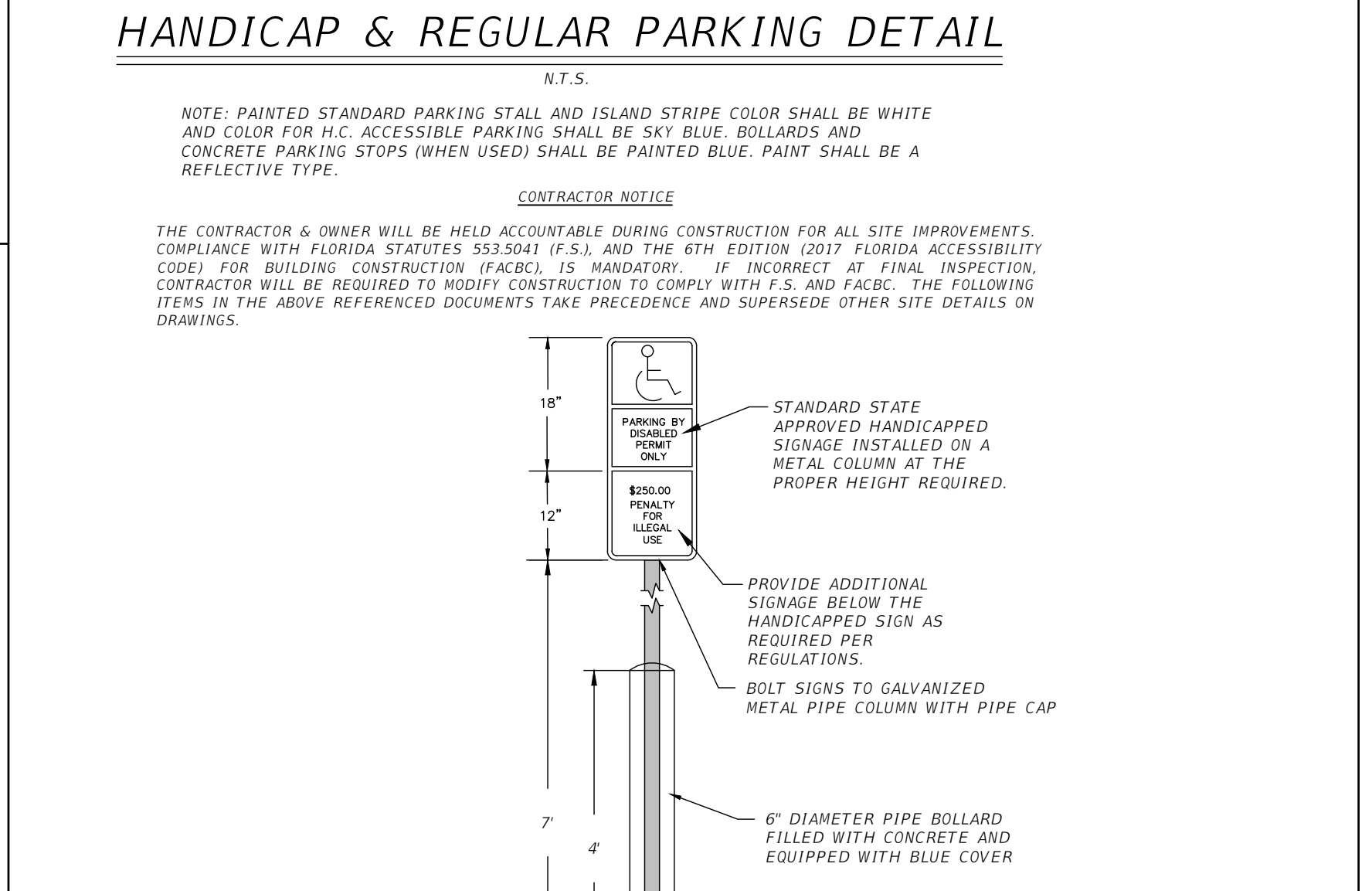
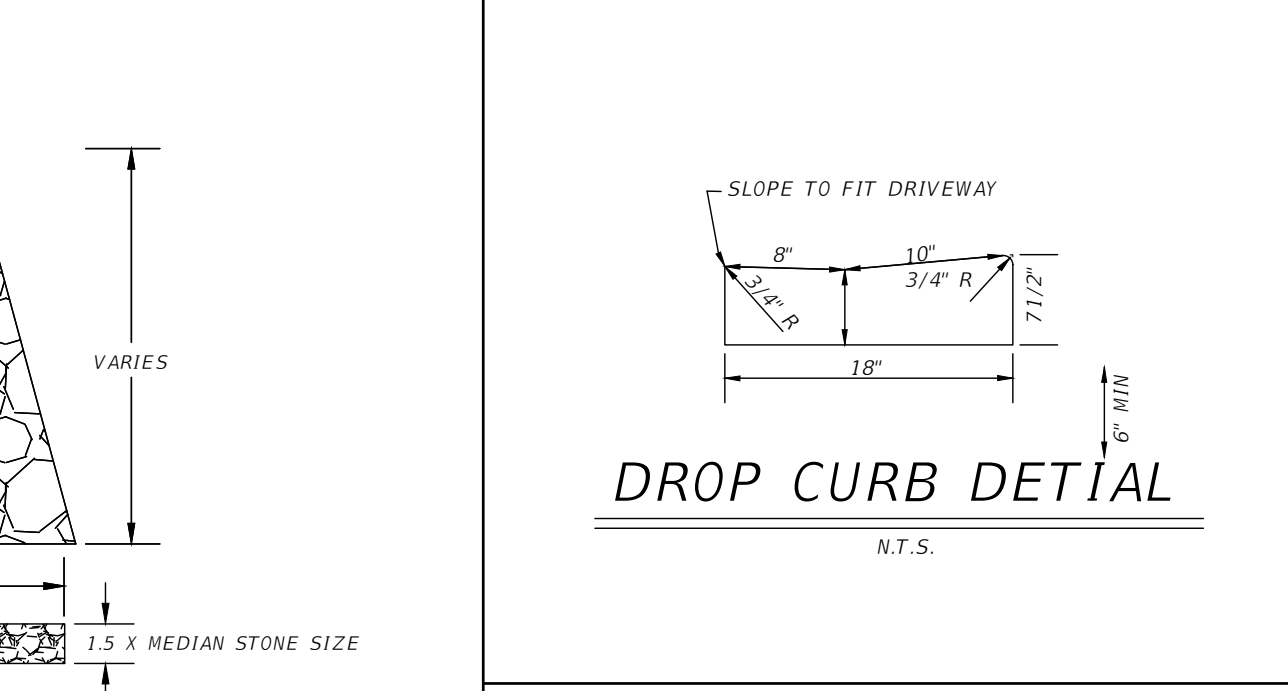
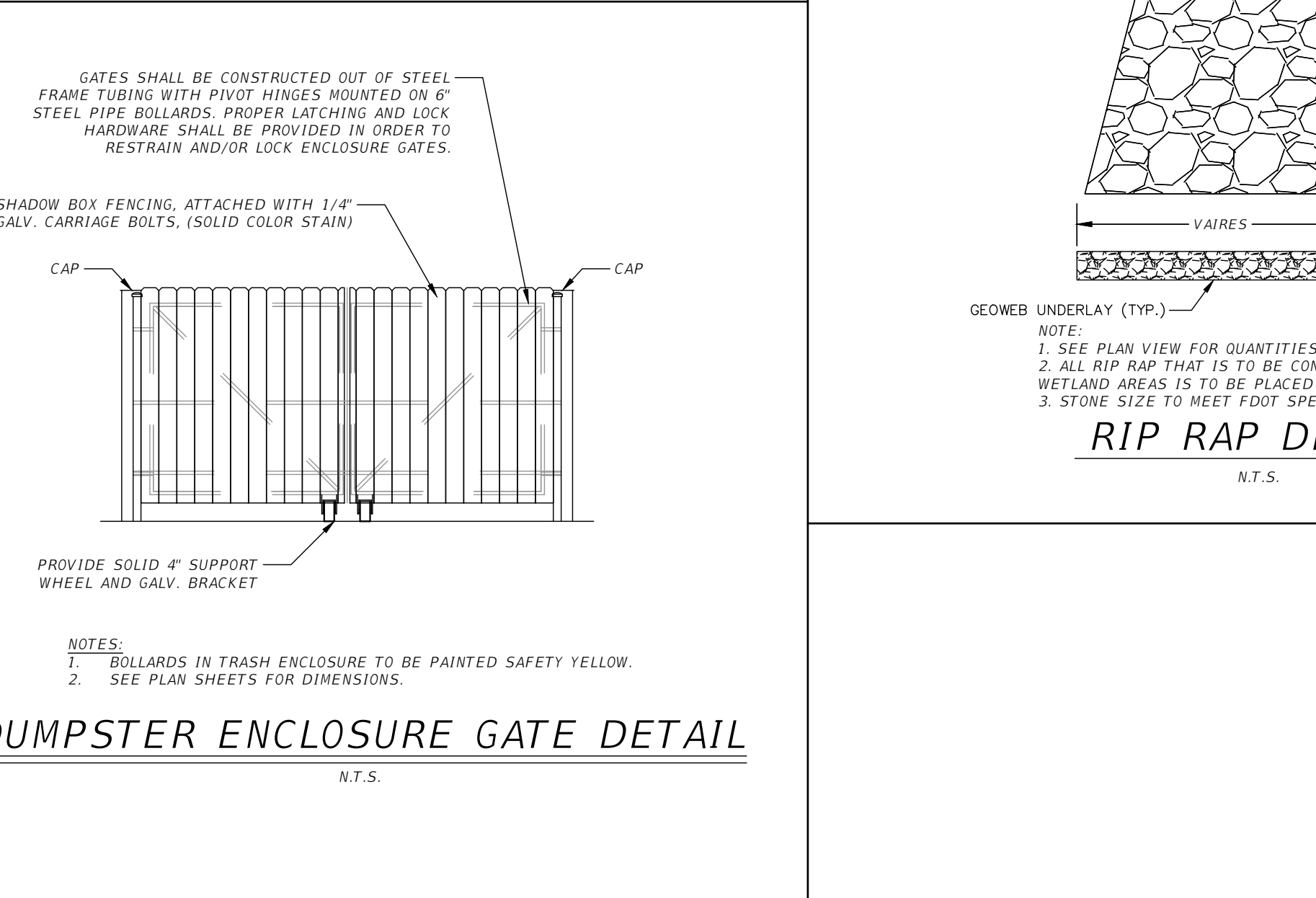
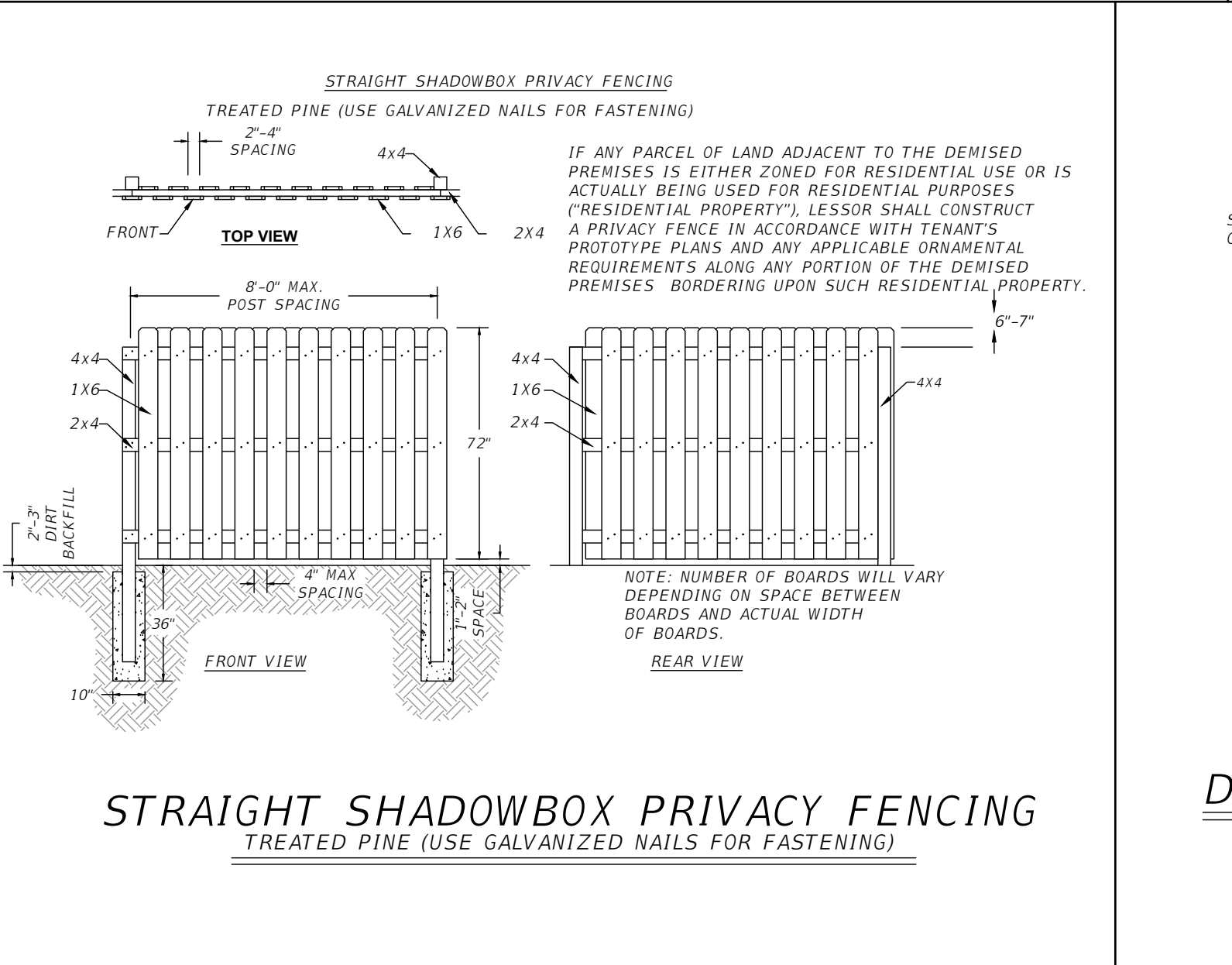
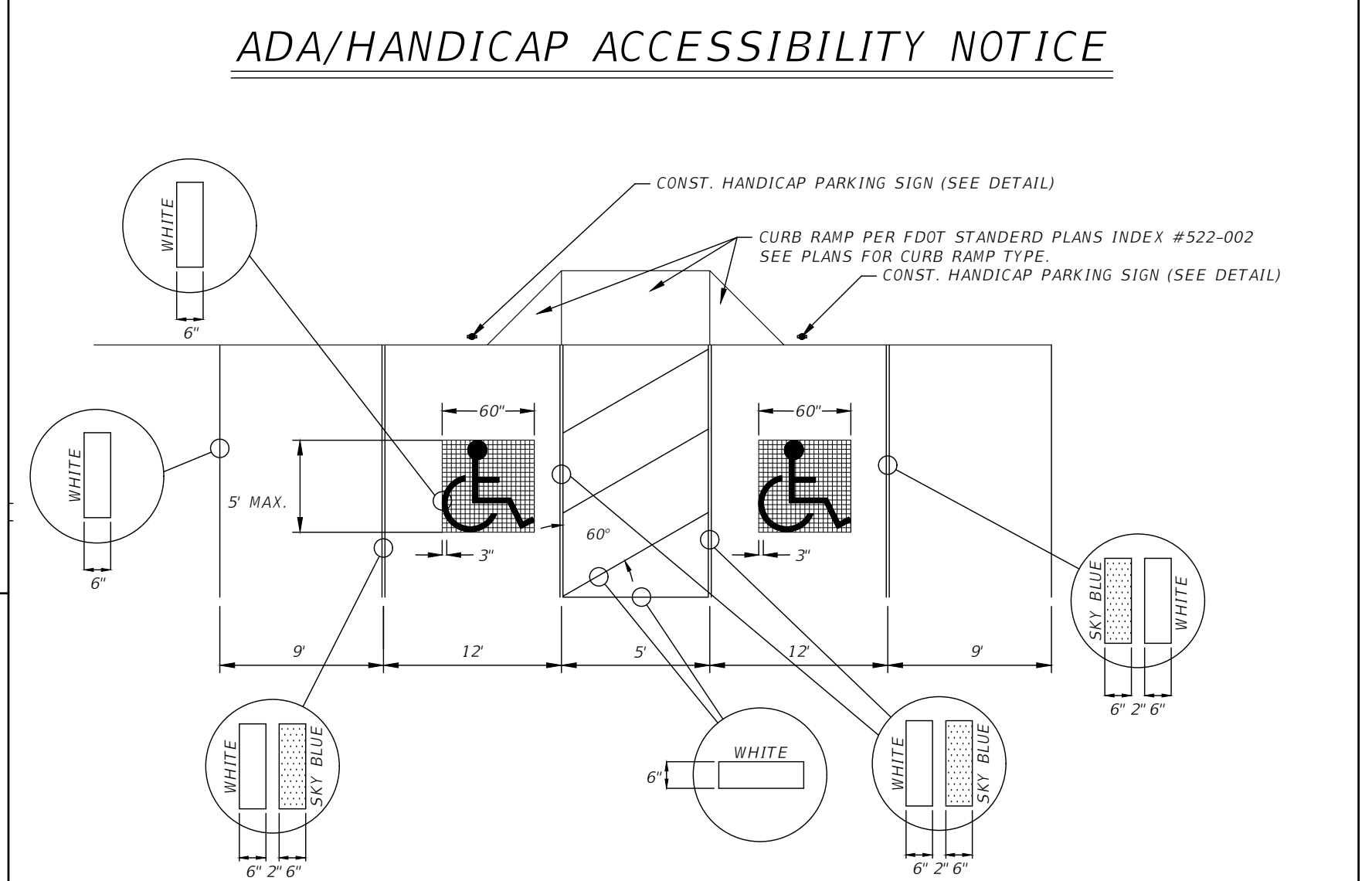
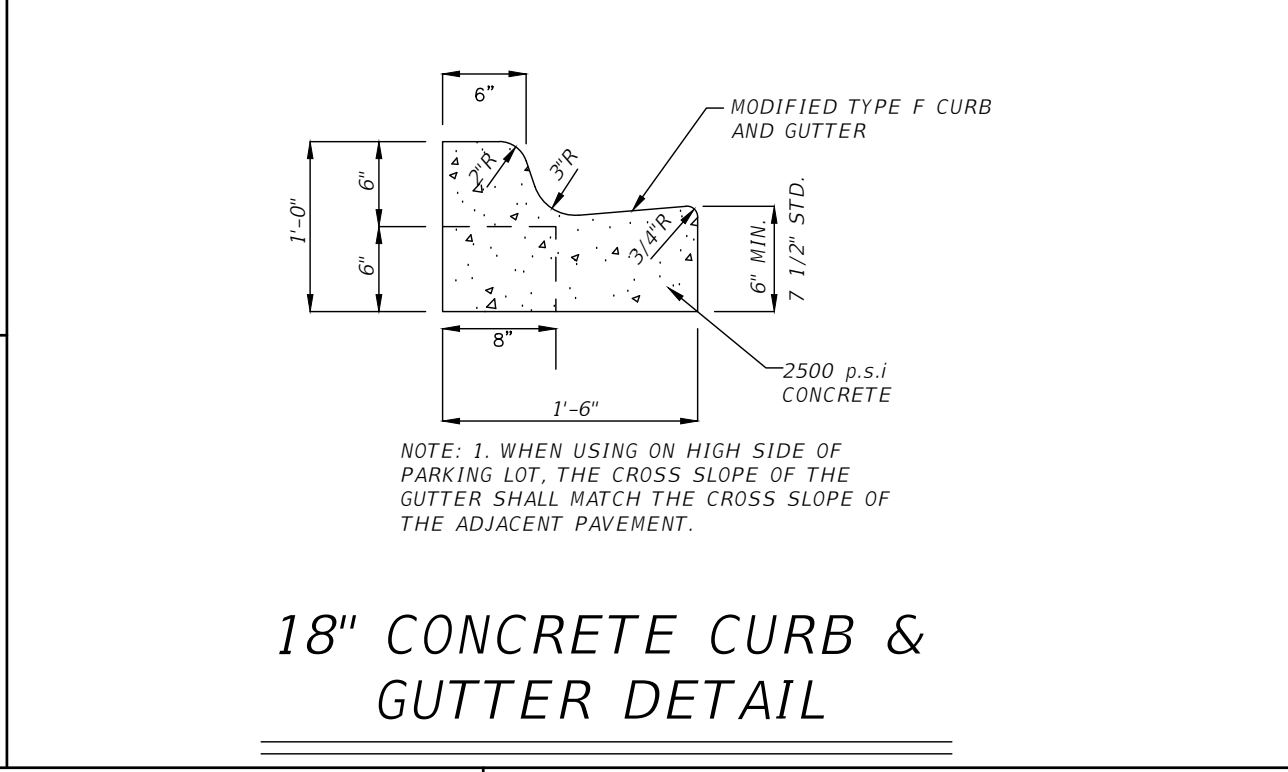
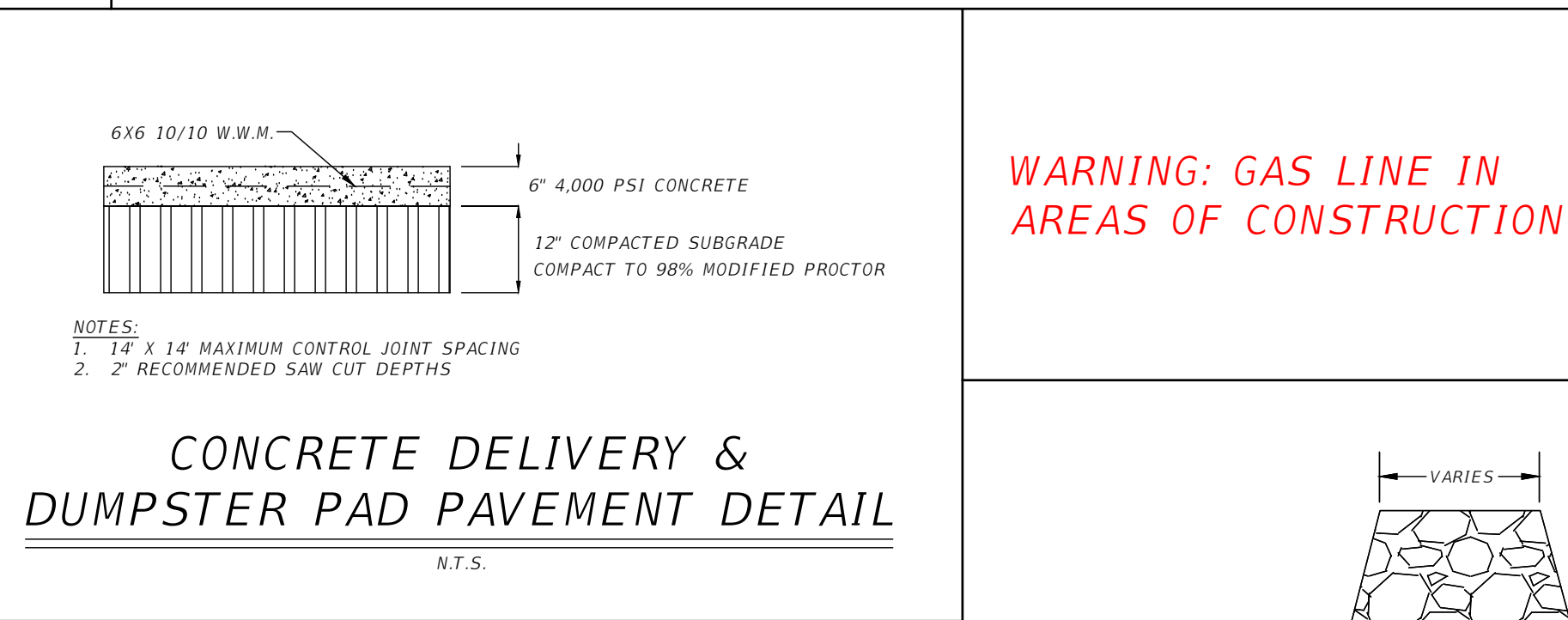
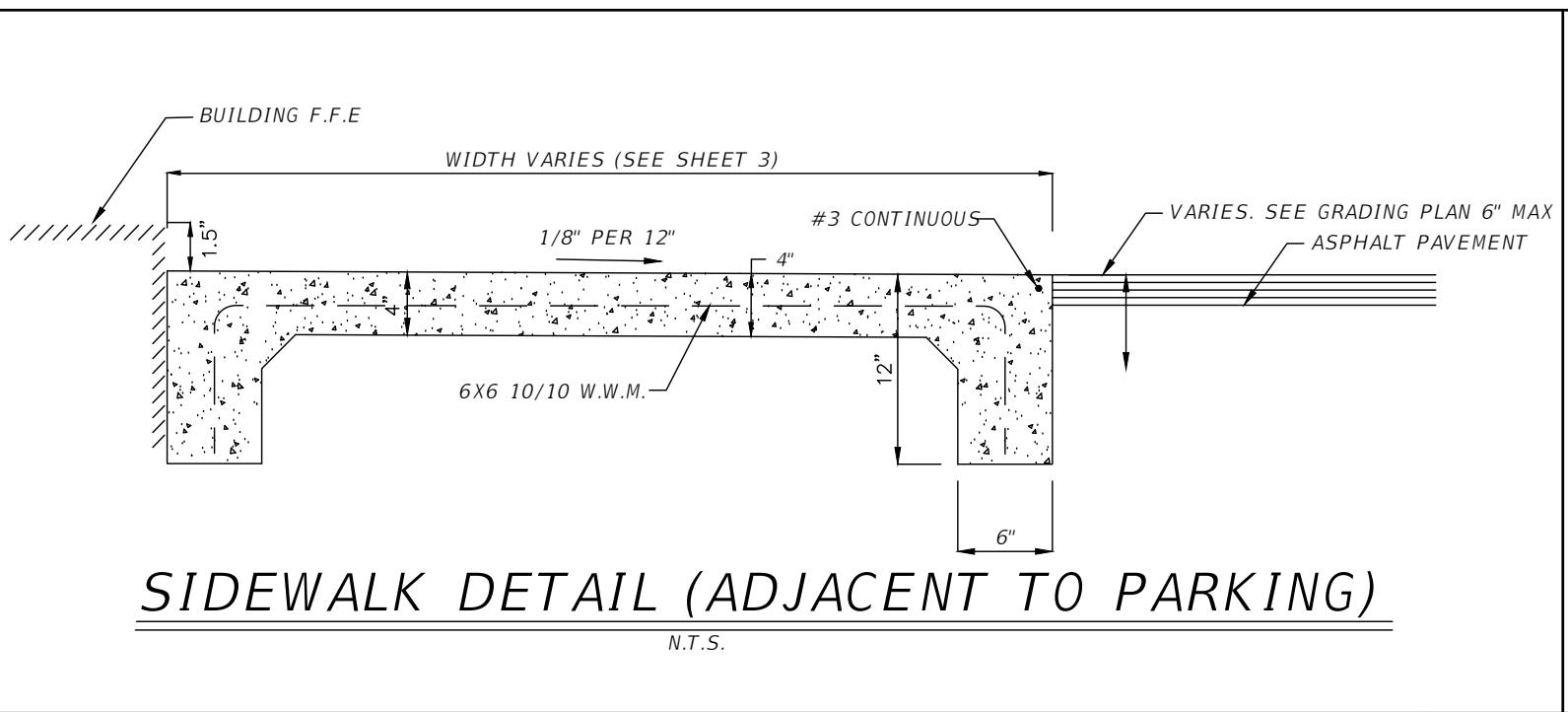
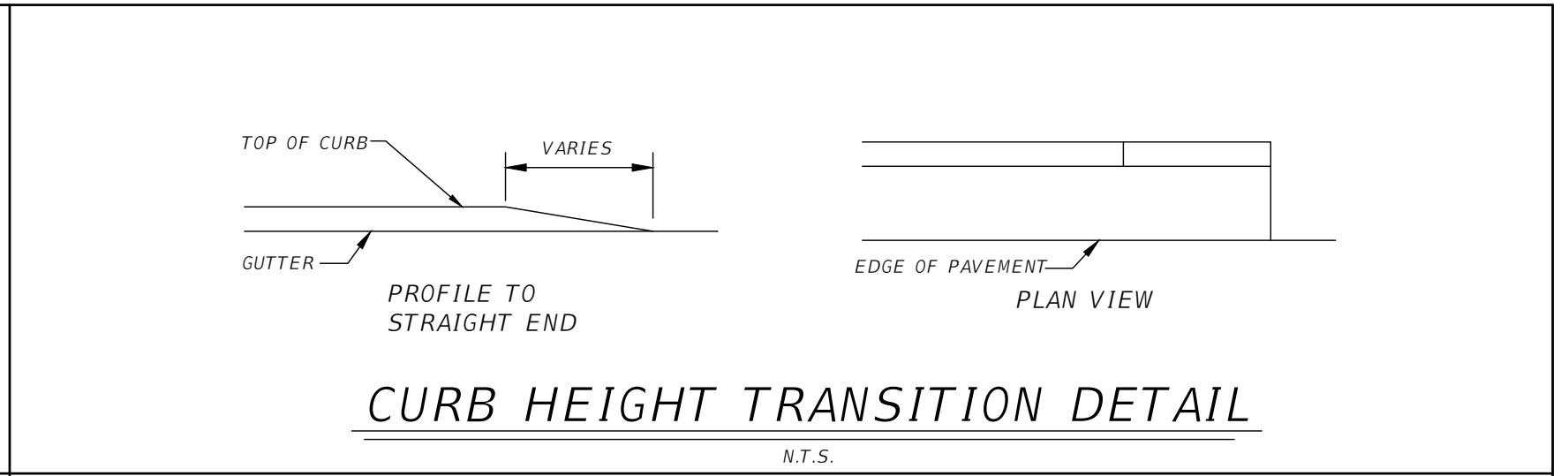
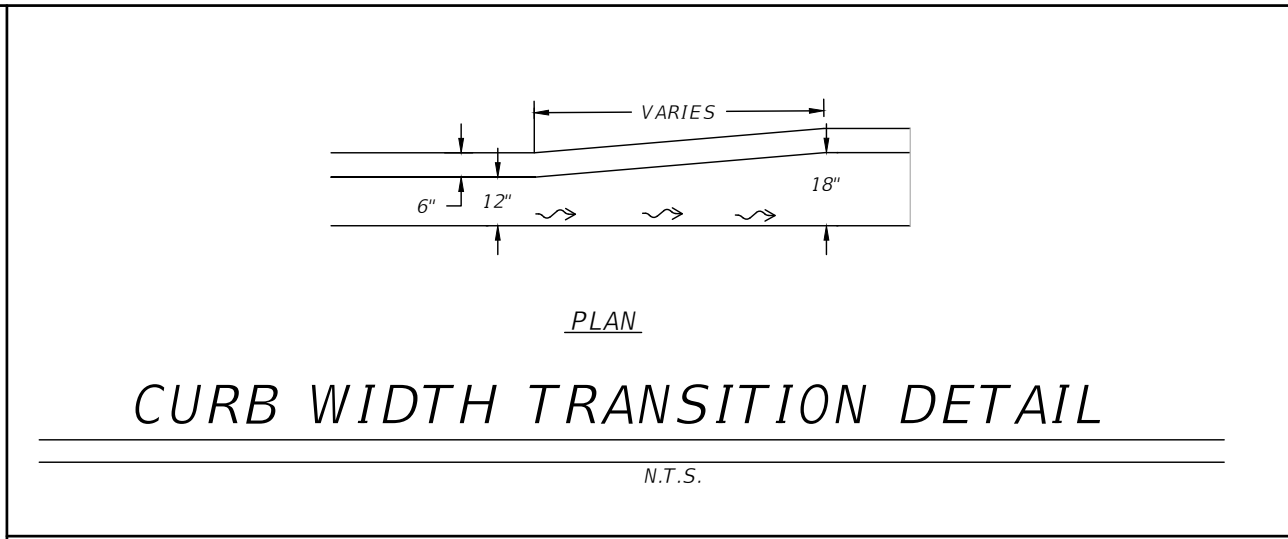
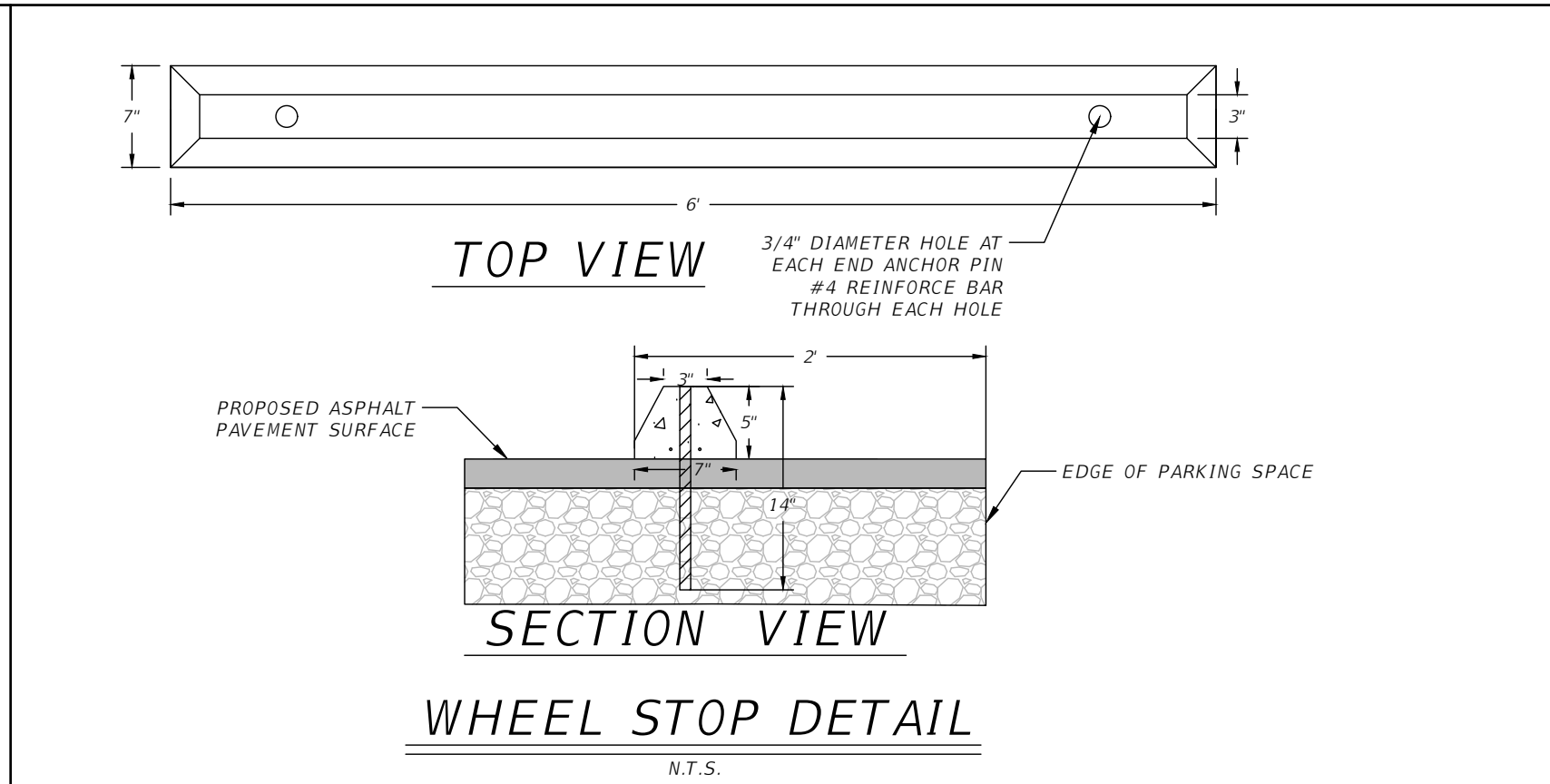
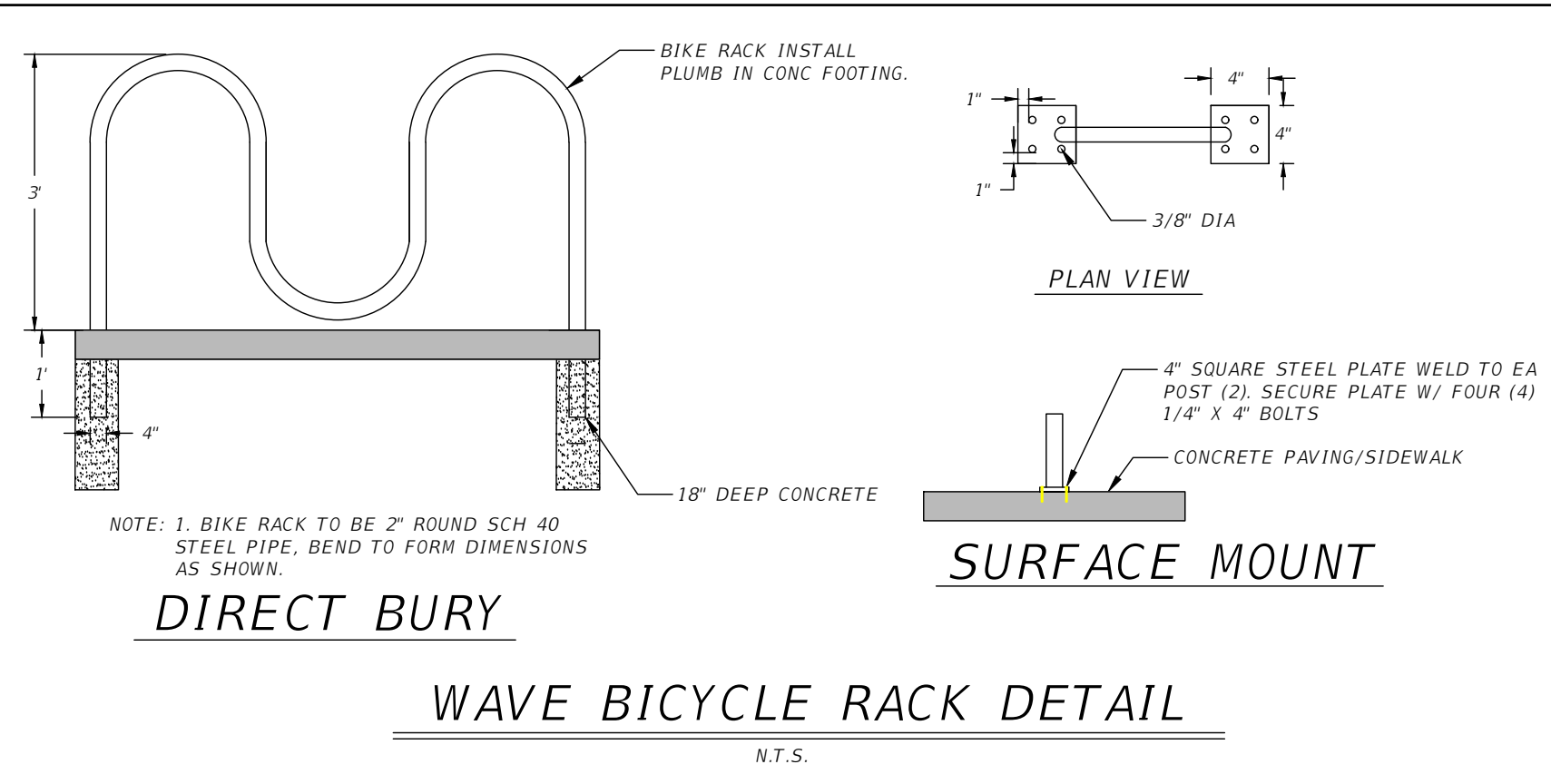
REVISIONS		
DESCRIPTION	INITIALS	DATE

CLIENT:
CITY OF CRESTVIEW

PROJECT:
VINEYARD VILLAGE

SHEET TITLE:
UTILITY PLAN

JOB NO. 22-030
DRAWN BY NCS
CHECKED BY JSF
DATE 10/12/23
SHEET 5



WARNING: GAS LINE IN AREAS OF CONSTRUCTION

C:\Users\Nathan\Alday-Howell Engineering\22-030 Vineyard Village - General\Drawings\PLAN\RD01.dwg, SITE DETAILS, Nathan, Oct 12, 2023 - 11:27:41am

Alday-Howell ENGINEERING, INC.
4100 S. FERDON BLVD, SITE B2
CRESTVIEW, FL 32636
PHONE (850) 634-6084 * FAX (850) 526-4740
E-MAIL : info@aldayhowell.com
FLORIDA CERTIFICATE OF AUTHORIZATION. NO. 26105

REVISIONS		
DESCRIPTION	INITIALS	DATE

CLIENT:
CITY OF CRESTVIEW

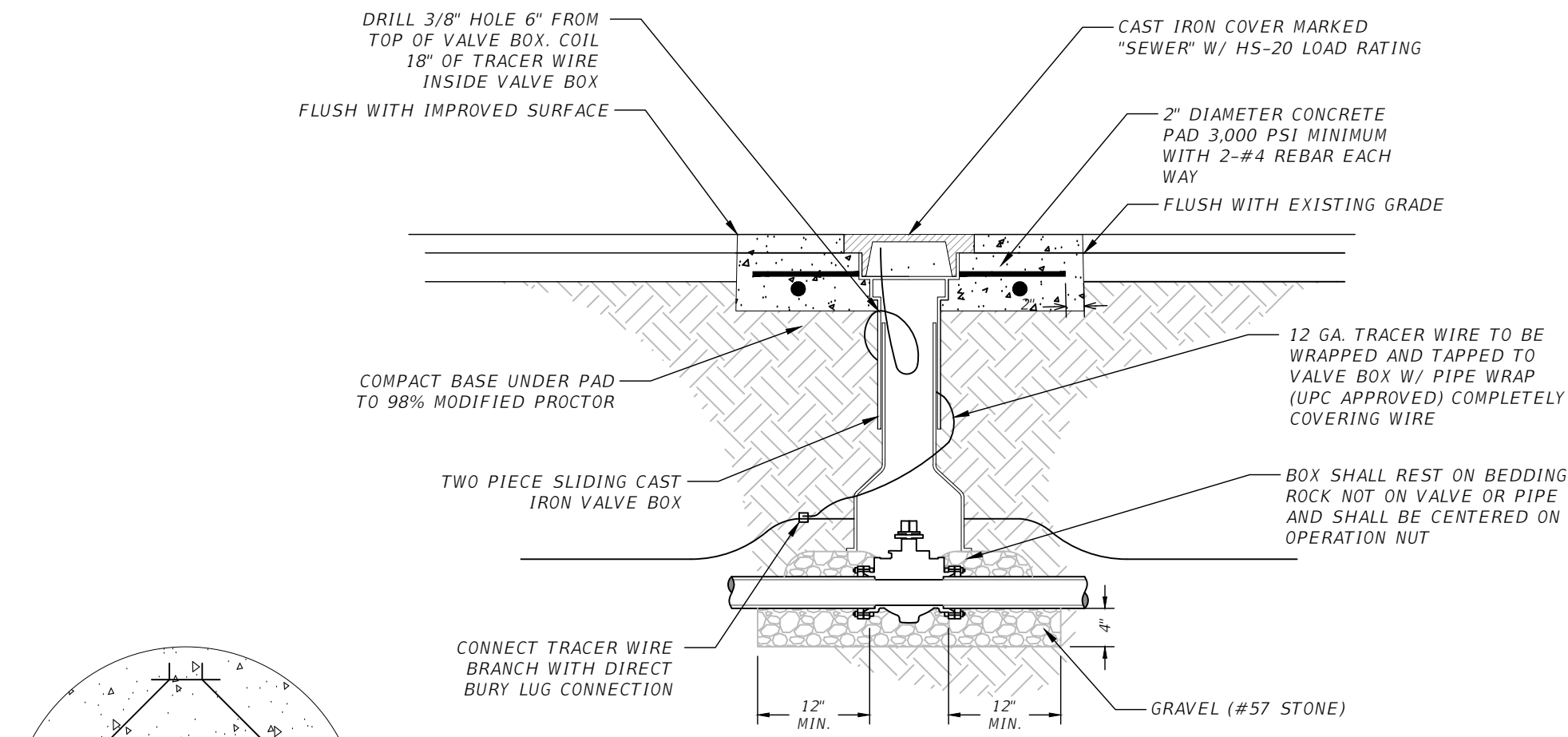
PROJECT:
VINEYARD VILLAGE

SHEET TITLE:
SITE DETAILS

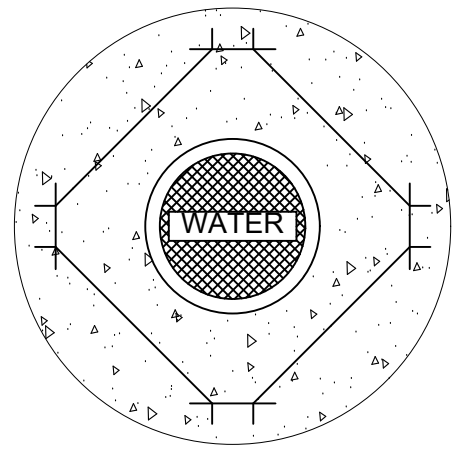
1" = 1'-0"
IF THIS LINE DOES NOT MEASURE ONE INCH IN LENGTH, THE SCALES ON THIS DRAWING ARE NOT VALID.

NOT VALID UNLESS EMBOSSED

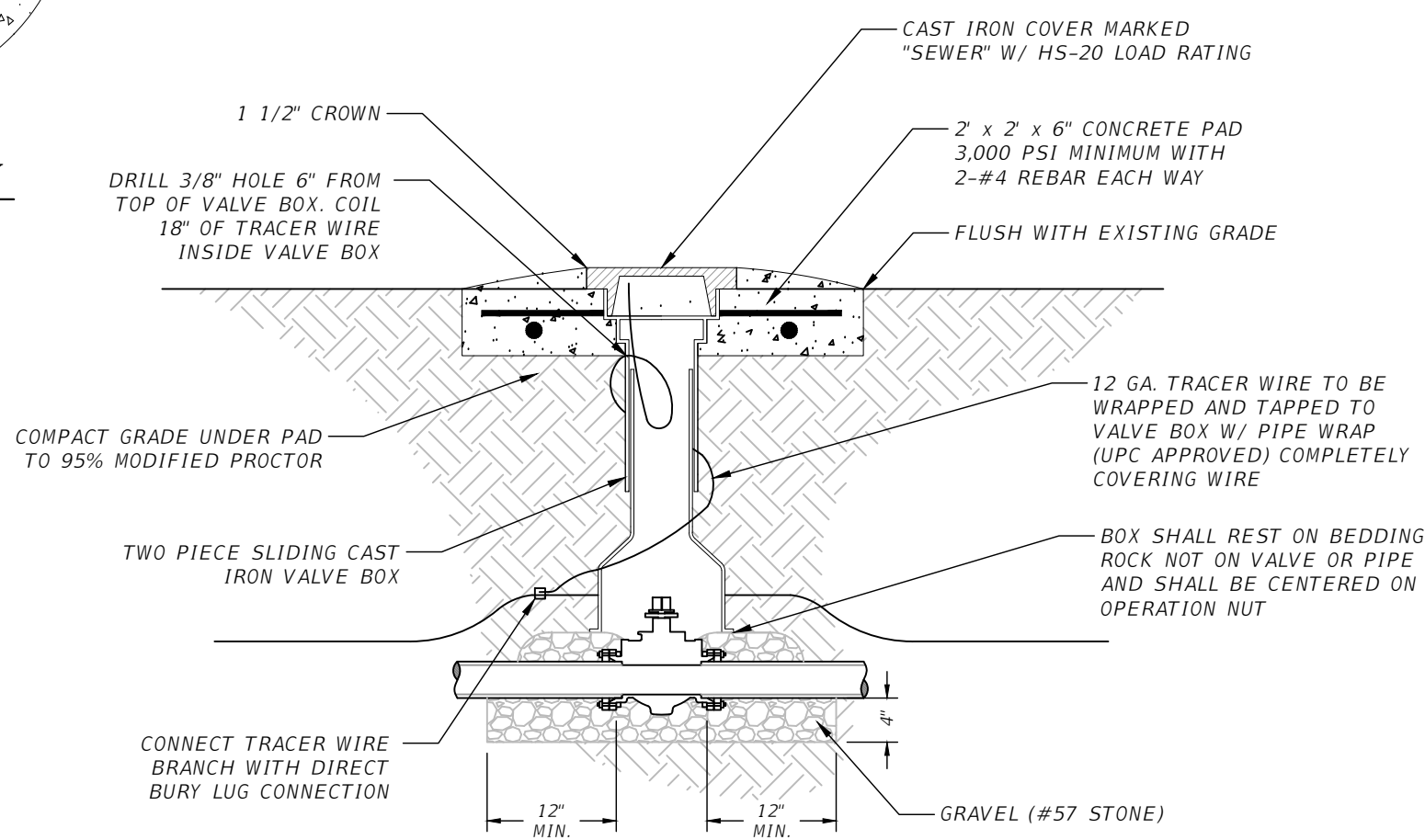
JOB NO. 22-030
DRAWN BY NMM
CHECKED BY JSF
DATE 10/12/23
SHEET 6



IMPROVED SURFACES



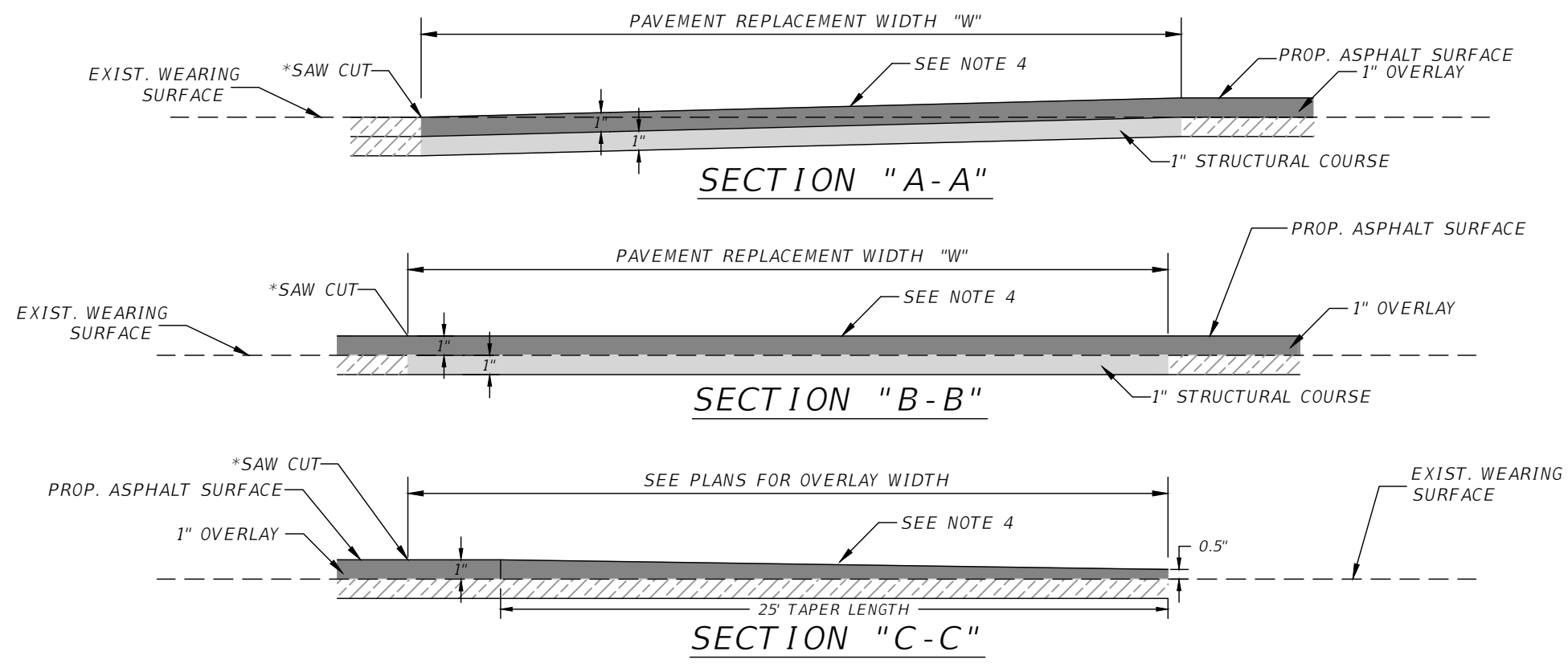
PLAN VIEW
N.T.S.



UNIMPROVED SURFACES

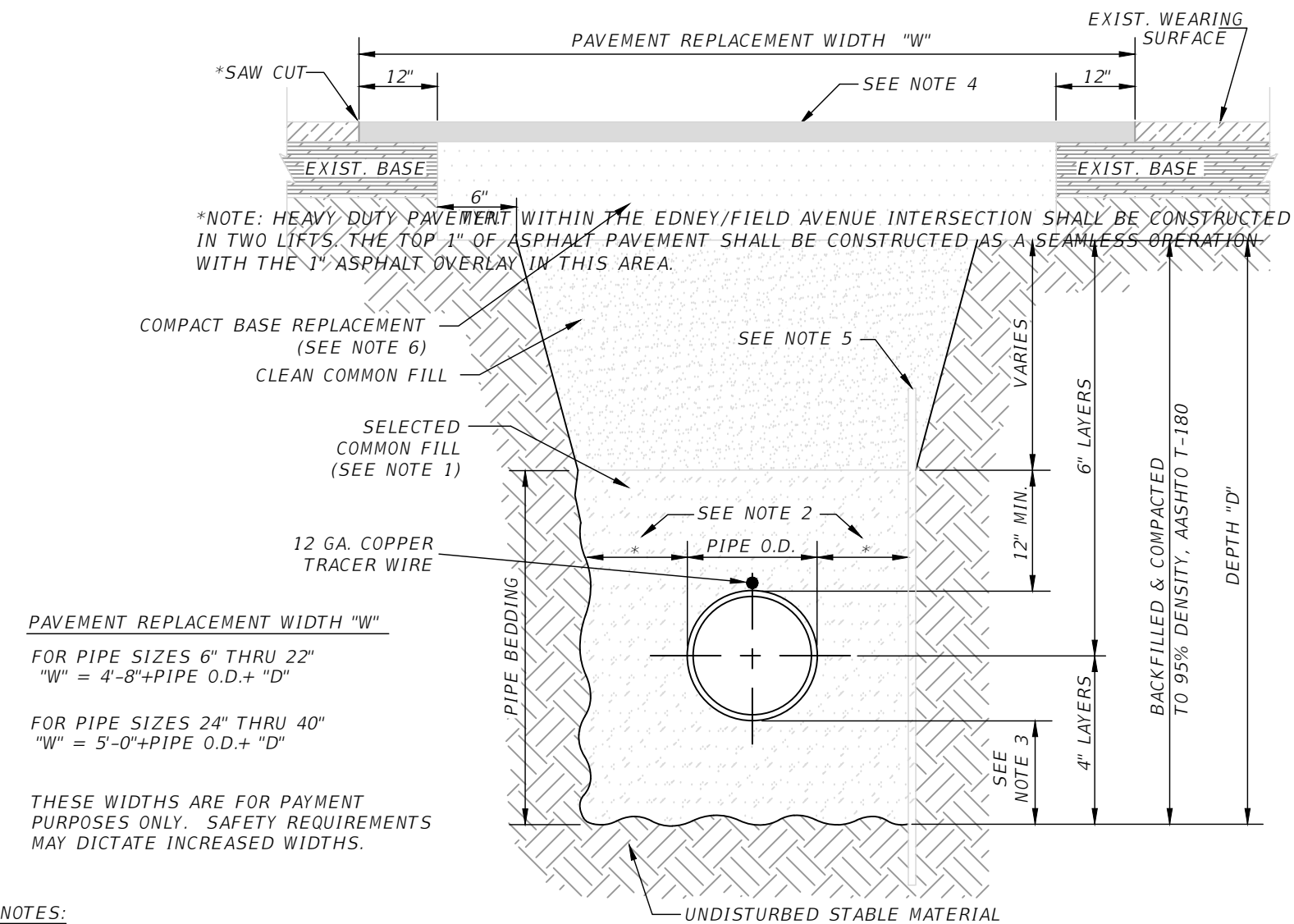
VALVE BOX COVER

- NOTE:
1. ALL CONCRETE PADS SHALL BE FORMED WITH WOOD, NO EXCEPTIONS.
 2. CONTRACTOR SHALL PROVIDE DUCTILE IRON RISER EXTENSIONS IF NEEDED. PVC SHALL NOT BE USED FOR EXTENSIONS.

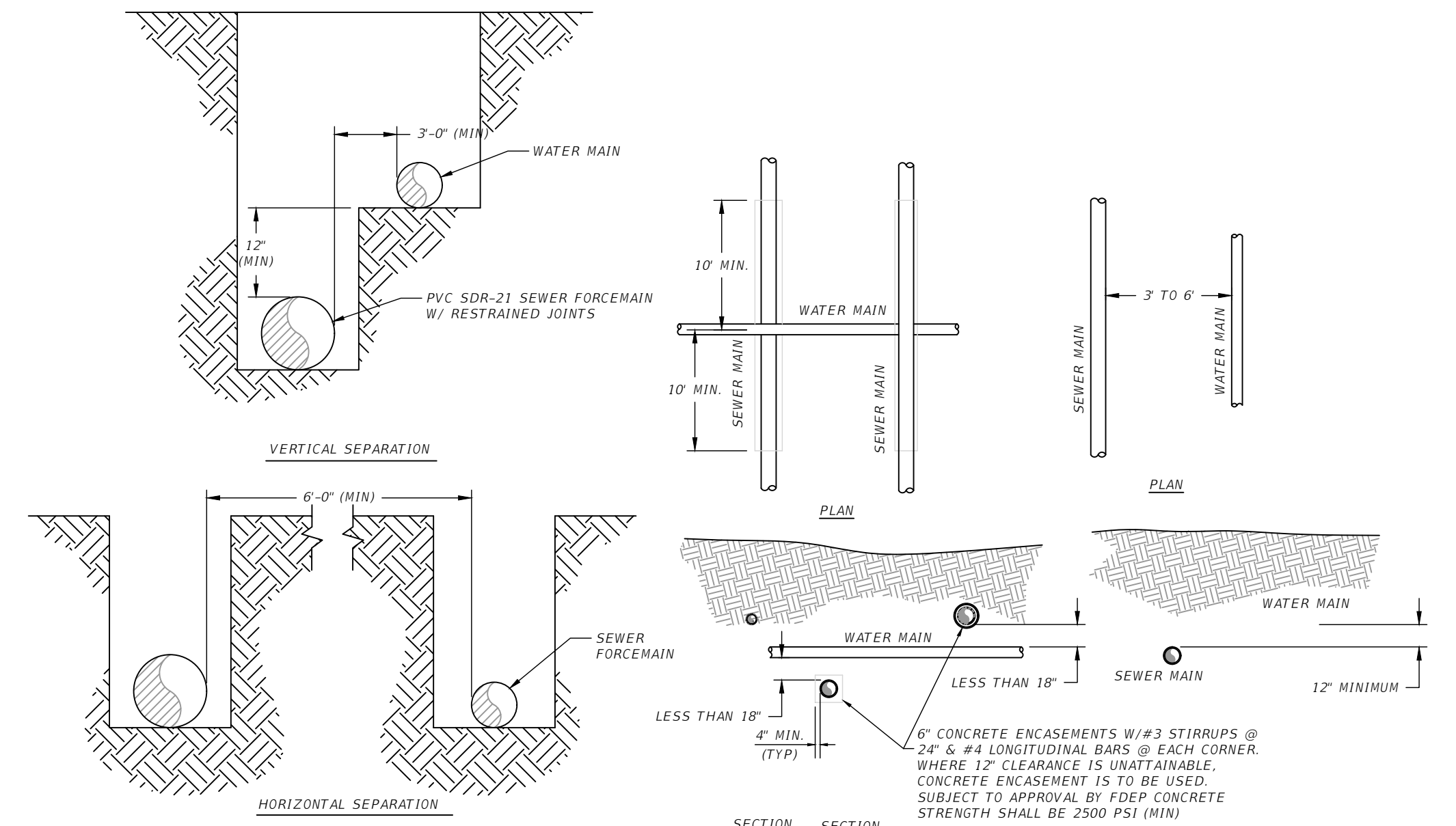


IMPROVED SURFACE PIPE BEDDING DETAIL

N.T.S.



- PAVEMENT REPLACEMENT WIDTH "W"
- FOR PIPE SIZES 6" THRU 22"
"W" = 4'-8" + PIPE O.D. + "D"
- FOR PIPE SIZES 24" THRU 40"
"W" = 3'-0" + PIPE O.D. + "D"
- THESE WIDTHS ARE FOR PAYMENT PURPOSES ONLY. SAFETY REQUIREMENTS MAY DICTATE INCREASED WIDTHS.
- NOTES:
1. USE TYPE A-2 OR BETTER PIPE BEDDING MATERIAL.
 2. 10" MAX. FOR PIPE DIAMETERS LESS THAN 24"; 12" MAX. FOR PIPE DIAMETER 24" AND LESS THAN 42"; 24" MAX. FOR PIPE DIAMETER 42" AND OVER.
 3. 4" MAX. FOR PIPE 16" DIAMETER & LESS; 6" MAX. FOR PIPE 18" TO 36" DIAMETER; AND 9" MAX. FOR PIPE 42" DIAMETER AND LARGER.
 4. WEARING SURFACE TO BE SAME TYPE & THICKNESS (4" MIN.) AS EXISTING PAVEMENT.
 5. SHEETING ORDERED LEFT IN PLACE TO BE CUT OFF 24" BELOW FINISHED GRADE OR 12" BELOW BASE.
 6. BASE SHALL BE 12" MINIMUM THICKNESS LIMEROCK, OR APPROVED EQUAL.
 7. BACKFILL SHALL BE PLACED IN LAYERS NOT TO EXCEED 6 INCH THICKNESS. EACH LAYER SHALL BE THOROUGHLY TAMPED AND/OR ROLLED TO 95% OF STANDARD PROCTOR DENSITY.
 8. TEMPORARY PATCHES WILL BE INSTALLED TO PROVIDE A SMOOTH ALL WEATHER SURFACE AT ALL TIMES. PERMANENT REPLACEMENT TO BE MADE AS SOON AS POSSIBLE.
 9. NOTES 4 THRU 8 ARE MINIMUM REQUIREMENTS. REFER TO FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS FOR ADDITIONAL REQUIREMENTS.

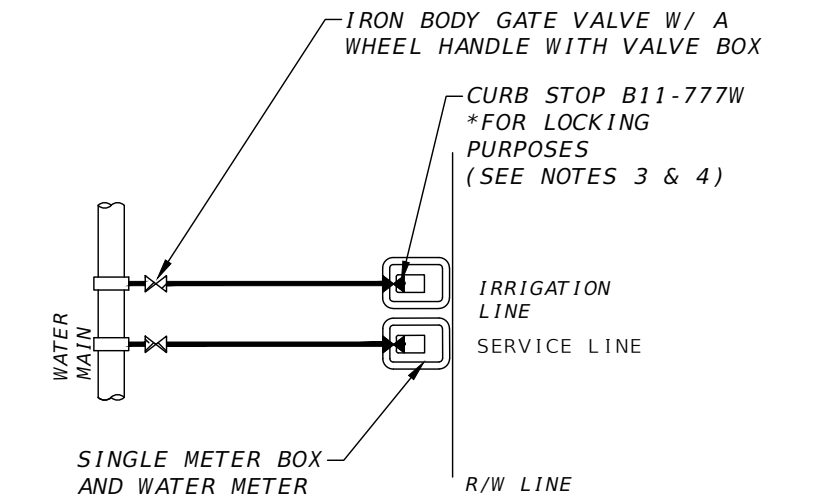


- NOTES:
1. WHERE A 6-FOOT PARALLEL SEPARATION CANNOT BE MAINTAINED BETWEEN A WATER MAIN AND A SEWER MAIN, THEN THE WATER MAIN SHALL BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF AT LEAST 12 INCHES ABOVE THE TOP OF THE SEWER MAIN. THE SEWER MAIN SHALL ALSO BE CONSTRUCTED OUT OF PVC SDR-21 WITH RESTRAINED JOINTS.
 2. WHERE A 12 INCH VERTICAL SEPARATION DISTANCE CANNOT BE MAINTAINED BETWEEN A WATER MAIN AND A SEWER MAIN CROSSING THEN THE WATER MAIN SHALL PASS OVER THE SEWER MAIN WITH A MINIMUM VERTICAL CLEARANCE OF 6 INCHES. THE SEWER MAIN SHALL BE ENCASED IN 20 FEET OF 6" CONCRETE CENTERED ON THE POINT OF CROSSING AND THE WATER MAIN SHALL BE ENCASED IN 20 FEET OF 6" CONCRETE CENTERED ON THE POINT OF CROSSING. CONCRETE ENCASEMENT SHALL BE POURED SEPARATELY FOR EACH PIPE.

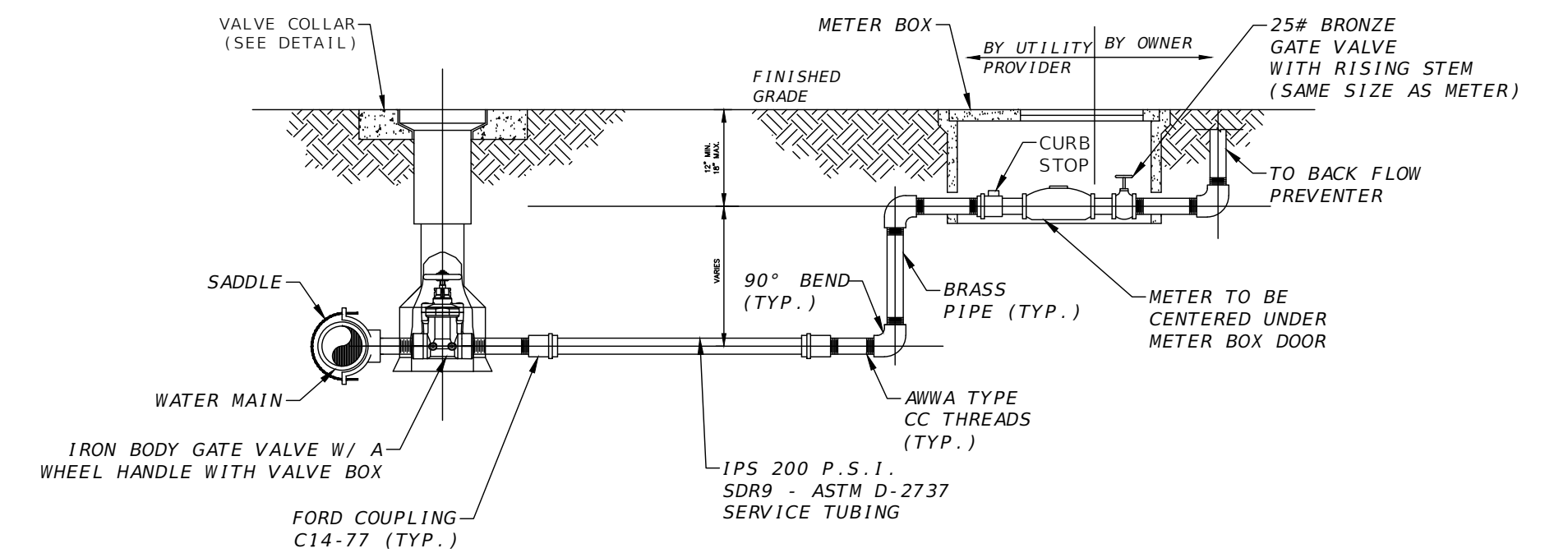
WATER & SEWER MAIN CROSSING/SEPARATION

N.T.S.

- NOTES:
- 1.) ALL FITTINGS SHALL BE BRASS WITH COMPRESSION/PACK JOINT TYPE CONNECTIONS.
 - 2.) NO SERVICE LINE SHALL TERMINATE UNDER A DRIVEWAY.
 - 3.) EACH SERVICE LINE SHALL TERMINATE AT A BALL VALVE WHICH SHALL BE FASTENED TO A 1" x 4" x 30" STAKE PAINTED WHITE.
 - 4.) CURB STOP SHALL BE A 2" FORD BALL METER VALVE B11-777W OR CITY APPROVED EQUAL.
 - 5.) ALL SERVICE TAPS TO BE LOCATED IN FIELD. TAPS SHALL BE NO CLOSER THAN 36" APART AND NOT WITHIN 24" FROM BACK OF PIPE BELL OR SPIGOT INSERTION LINE AND WILL NOT BE SET IN DRAINAGE SWALES, EASEMENTS OR SIDEWALKS.
 - 6.) TAPPING SADDLE: MODEL FL202 FORD METER BOX CO.
 - 7.) 3/4" METERS WILL REQUIRE A 1" TAP & GATE VALVE, THEN REDUCED.



TYPICAL AUBURN WATER SERVICE



WATER METER INSTALLATION DETAIL

N.T.S.

WARNING: GAS LINE IN AREAS OF CONSTRUCTION

C:\Users\Nathan\Alday-Howell Engineering\22-030 Vineyard Village - General\Drawings\PLAN\RD01.dwg - UTILITY DETAILS, Nathan, Oct 12, 2023 - 11:27:45am

AH ALDAY-HOWELL
ENGINEERING, INC.
4100 S. FERDON BLVD, SITE B2
CRESTVIEW, FL 32536
PHONE (850) 634-6084 * FAX (850) 526-4740
E-MAIL : info@aldayhowell.com
FLORIDA CERTIFICATE OF AUTHORIZATION. NO. 26105

REVISIONS		
DESCRIPTION	INITIALS	DATE

CLIENT:
**CITY OF
CRESTVIEW**

PROJECT:
VINEYARD VILLAGE

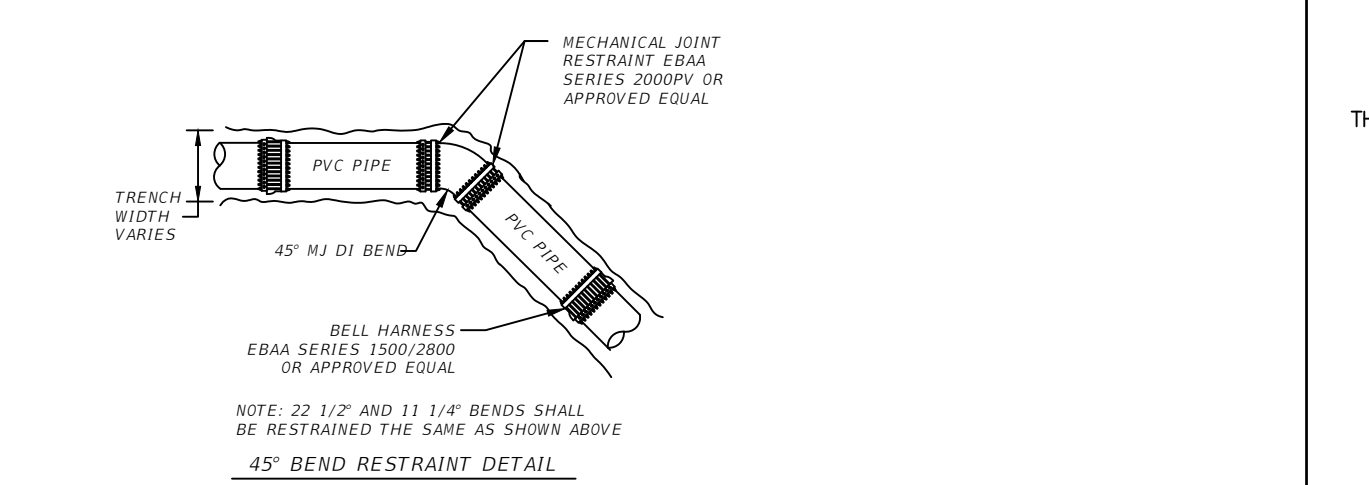
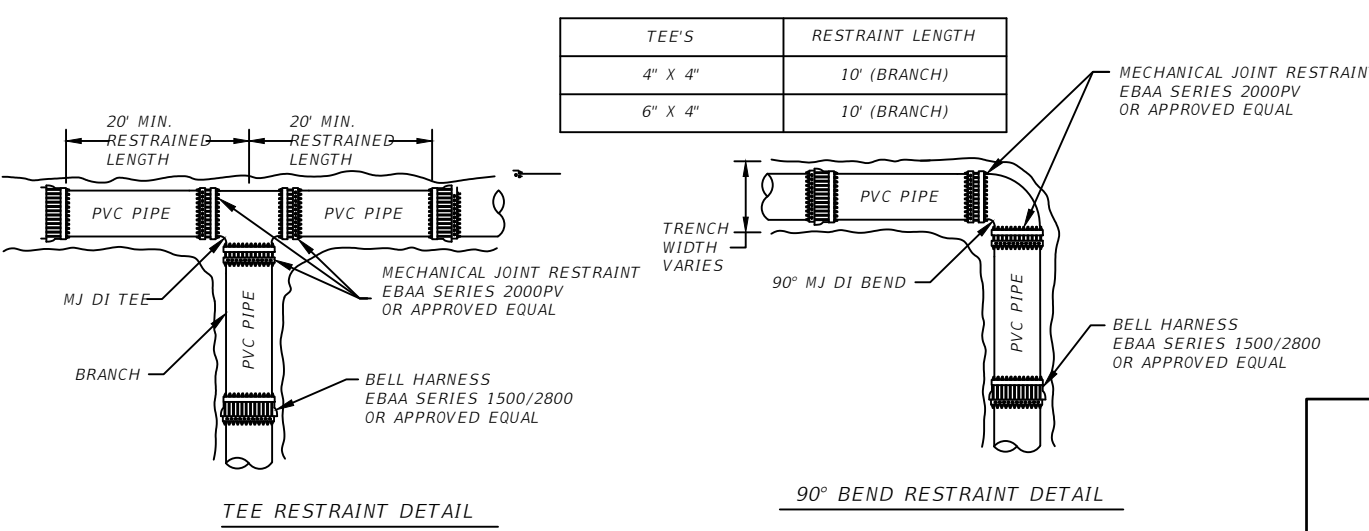
SHEET TITLE:
UTILITY DETAILS

IF THIS LINE DOES NOT MEASURE ONE INCH IN LENGTH, THE SCALES ON THIS DRAWING ARE NOT VALID.

NOT VALID UNLESS EMBOSSED

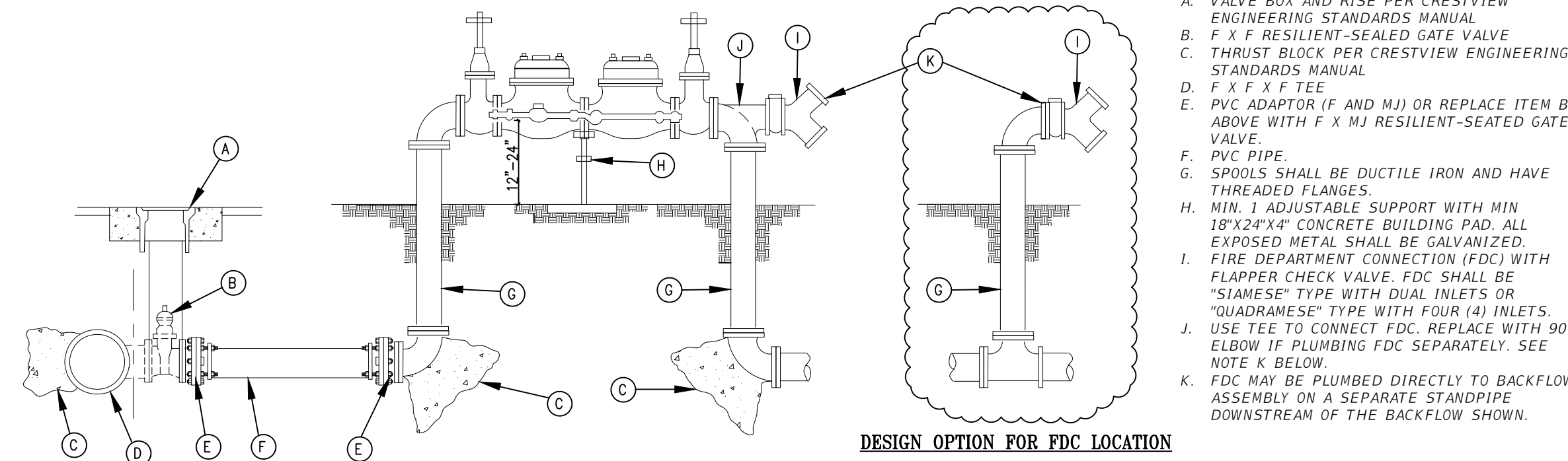
JOB NO. 22-030
DRAWN BY NMM
CHECKED BY JSF
DATE 10/12/23
SHEET 7

RESTRAINT LENGTH REQUIREMENTS FOR FITTINGS						
FITTING	RESTRAINT LENGTH REQUIRED 4"	RESTRAINT LENGTH REQUIRED 6"	RESTRAINT LENGTH REQUIRED 8"	RESTRAINT LENGTH REQUIRED 10"	RESTRAINT LENGTH REQUIRED 12"	RESTRAINT LENGTH REQUIRED 16"
11 1/4" BEND	10'	10'	10'	10'	10'	10'
22 1/2" BEND	10'	10'	20'	20'	20'	20'
45° BEND	20'	20'	40'	40'	40'	40'
90° BEND	40'	40'	80'	80'	80'	100'
REDUCER	4x3 = 35'	6x4 = 40'	8x6 = 40'	10x8 = 39'	12x10 = 50'	14x12 = 50'
45° VERTICAL OFFSET	UPPER 30'	UPPER 30'	UPPER 40'	UPPER 48'	UPPER 68'	UPPER 88'
	LOWER 7'	LOWER 7'	LOWER 9'	LOWER 11'	LOWER 14'	LOWER 16'
DEAD END	60'	60'	80'	80'	160'	210'

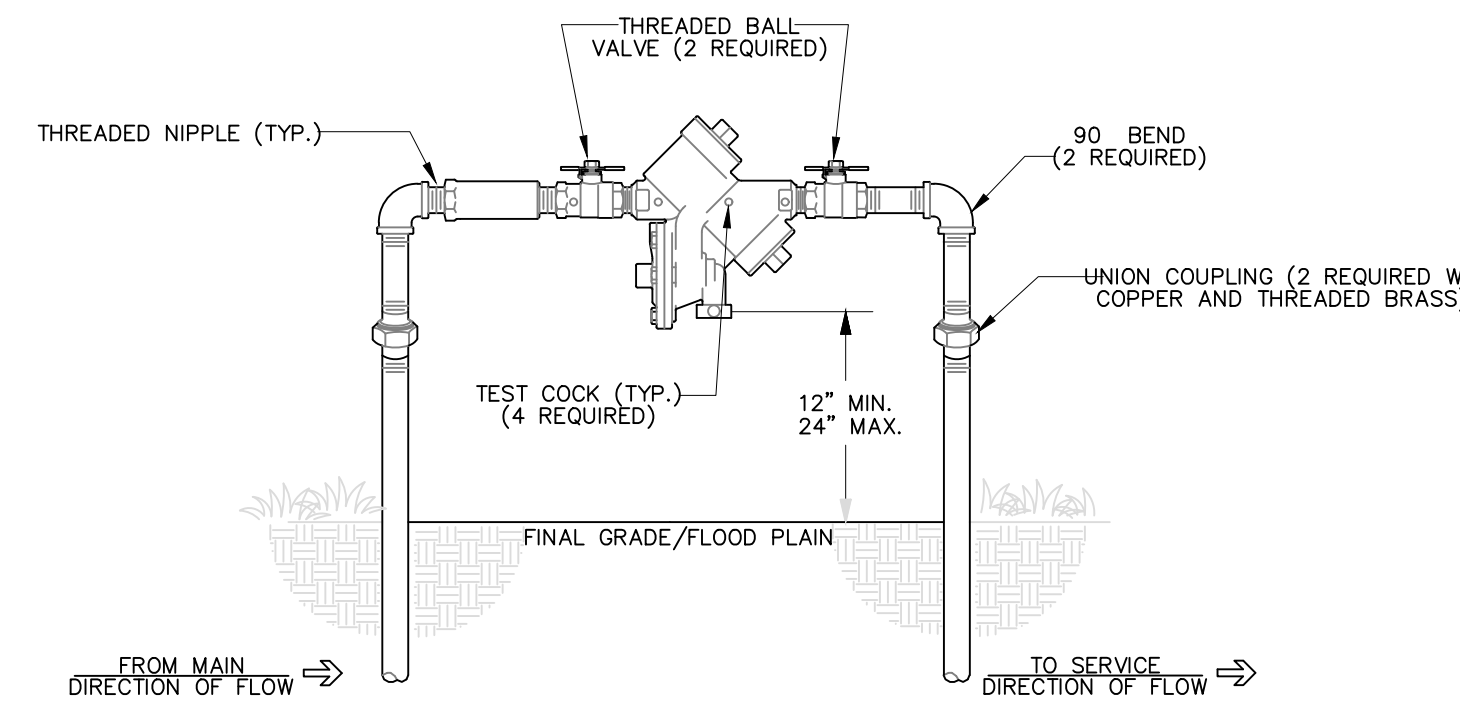


- NOTES:
- RESTRAINED JOINT PIPING SHALL BE USED FOR ALL THRUST RESTRAINTS. THE ADJACENT SCHEDULE GIVES MINIMUM PIPE LENGTHS (FT) TO BE RESTRAINED ON EACH SIDE OF THE STANDARD FITTINGS.
 - CONCRETE THRUST BLOCKS SHALL NOT BE USED, NO EXCEPTIONS.
 - SOME PIPE RESTRAINT REQUIREMENTS ARE SHOWN IN THE PLANS FOR SPECIFIC CIRCUMSTANCES.
 - ALL 45° AND 22 1/2° COMBINATION BENDS AND 22 1/2° AND 11 1/4° COMBINATION BENDS SHALL BE TREATED AS 90° BENDS AND 45° BENDS, RESPECTIVELY, FOR RESTRAINT LENGTHS.
 - ALL FITTINGS AND RESTRAINED JOINTS MUST BE VISUALLY INSPECTED AND APPROVED BY THE ENGINEER BEFORE COVERED.
 - ALL VALVES SHALL BE RESTRAINED WITH EBA SERIES 2000 PV MECHANICAL JOINT RESTRAINT OR APPROVED EQUAL.
 - BELL HARNESS RESTRAINTS SHALL BE EBA SERIES 1500/2800 OR APPROVED EQUAL.
 - ALL DIRECTIONAL BORES SHALL BE RESTRAINED A MINIMUM OF 40'

THRUST RESTRAINTS
N.T.S.

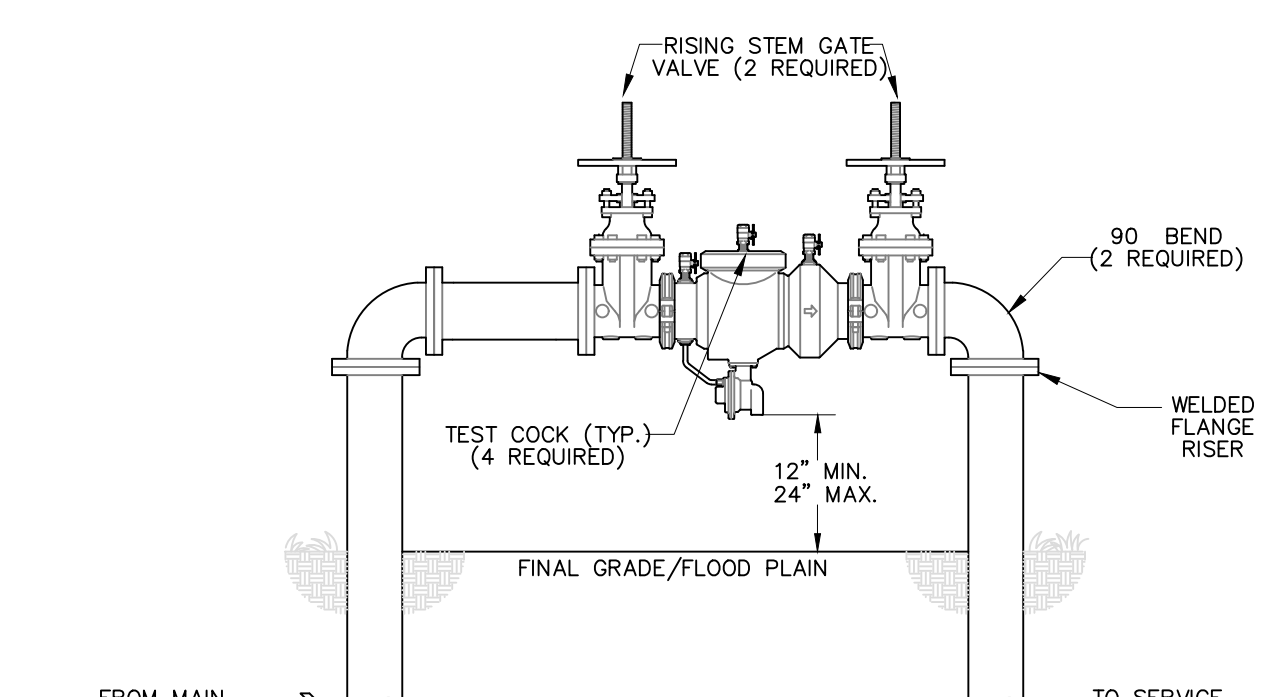


BACK FLOW PREVENTER WITH FIRE DEPARTMENT CONNECTION DETAIL
N.T.S.



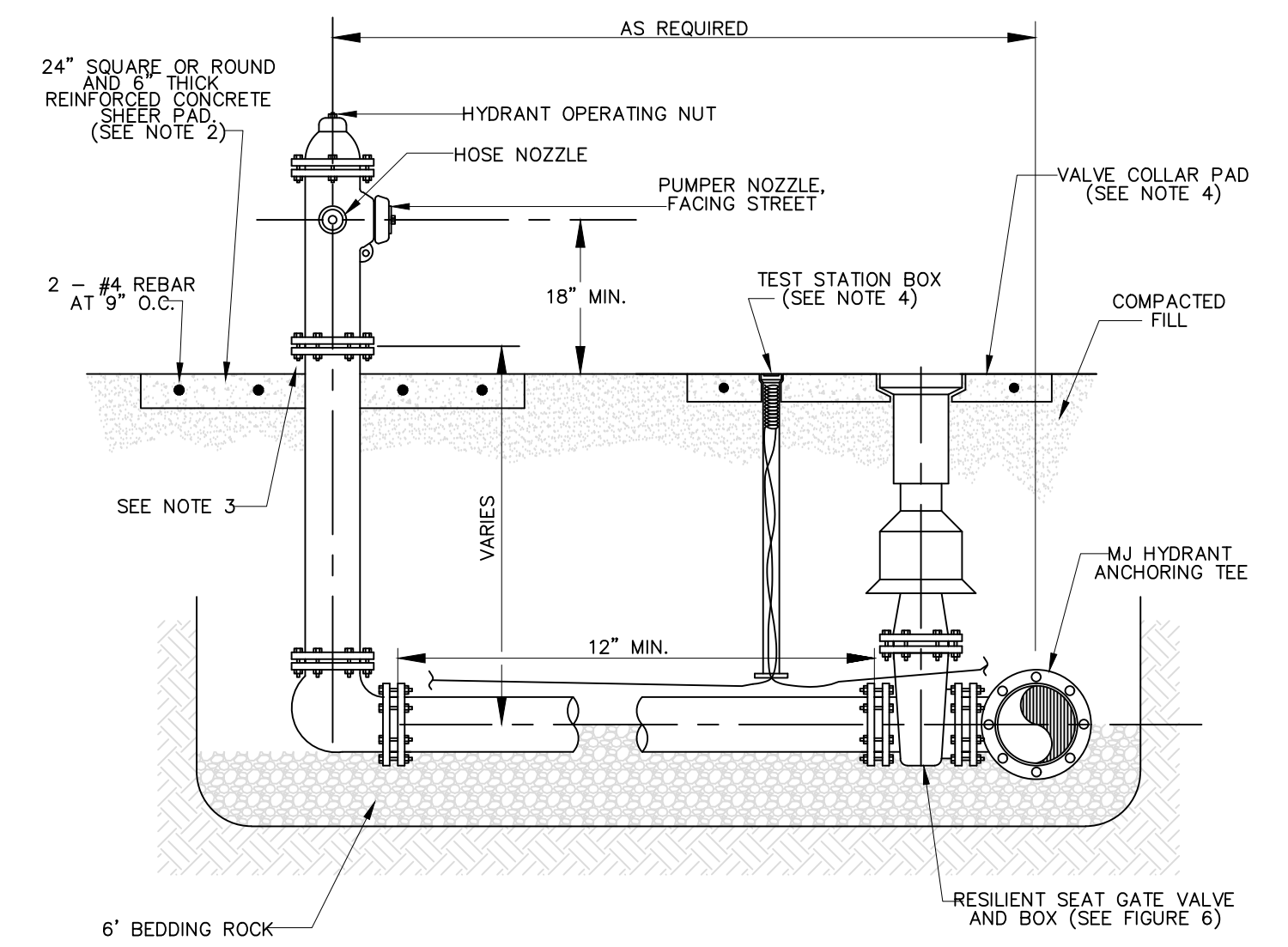
3/4\"/>

NOTE:
1. ALL DEVICES 3/4\"/>



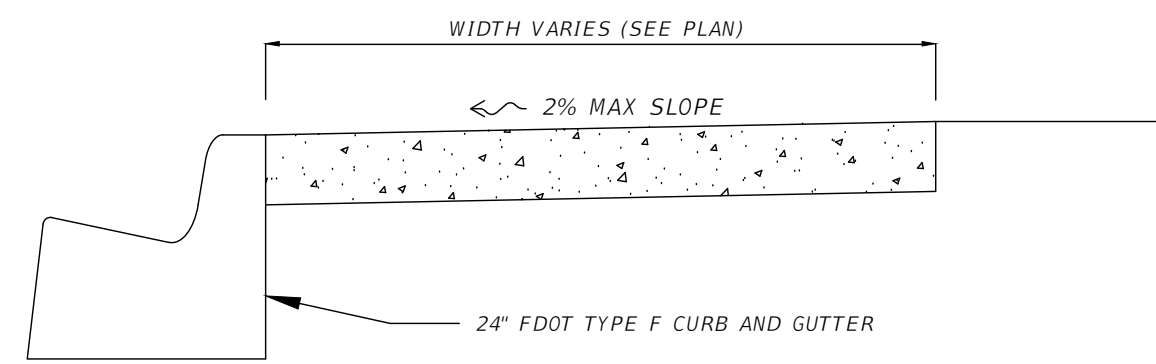
3\"/>

NOTE:
1. ALL DEVICES 3\"/>



FIRE HYDRANT ASSEMBLY DETAIL
N.T.S.

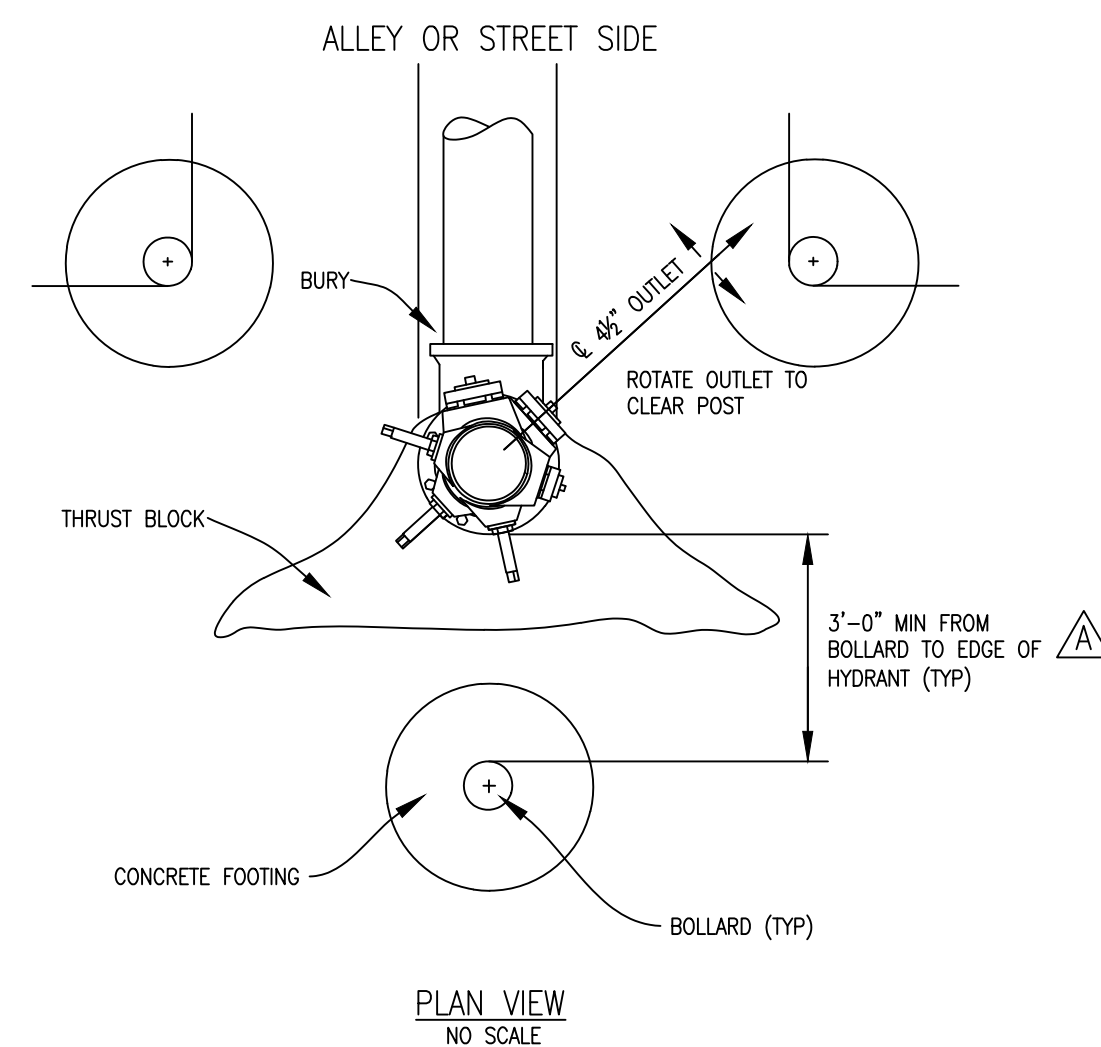
- NOTES:
- DESIGN - LATEST EDITION OF AWWA C502 TRAFFIC MODEL WITH BREAKAWAY FLANGE; MUELLER CENTURION - A423, AMERICAN-DARLING - B-84-B, KENNEDY GUARDIAN - 6-814, AND OTHERS APPROVED BY THE CITY IN WRITING.
 - PROVIDE 6-INCH INLET, 2 - 2 1/2 INCH HOSE NOZZLES, 1 - 4 1/2 PUMPER.
 - NOZZLES SHALL BE FIELD REPLACEABLE UTILIZING STRAIGHT THREADS OR QUARTER-TURN SEAL BY AN "O" RING.
 - PROVIDE COMPRESSION TYPE MAIN VALVE, MINIMUM SIZE 5 1/4 INCHES.
 - PENTAGON OPERATION NIT, 1 1/2 INCH IN SIZE.
 - DESIGN TO OPEN COUNTERCLOCKWISE (TURN LEFT).
 - PROVIDE MECHANICAL JOINT BELL ON FOOT PIECE.
 - FURNISH NATIONAL (AMERICAN) STANDARD FIRE HOSE COUPLING SCREW THREAD (NH).
 - ALL FIRE HYDRANTS SHALL BE FITTED WITH A HYDRA STORZ WITH BUILT-IN CHECK VALVE AS PER MANUFACTURER'S SPECIFICATIONS.



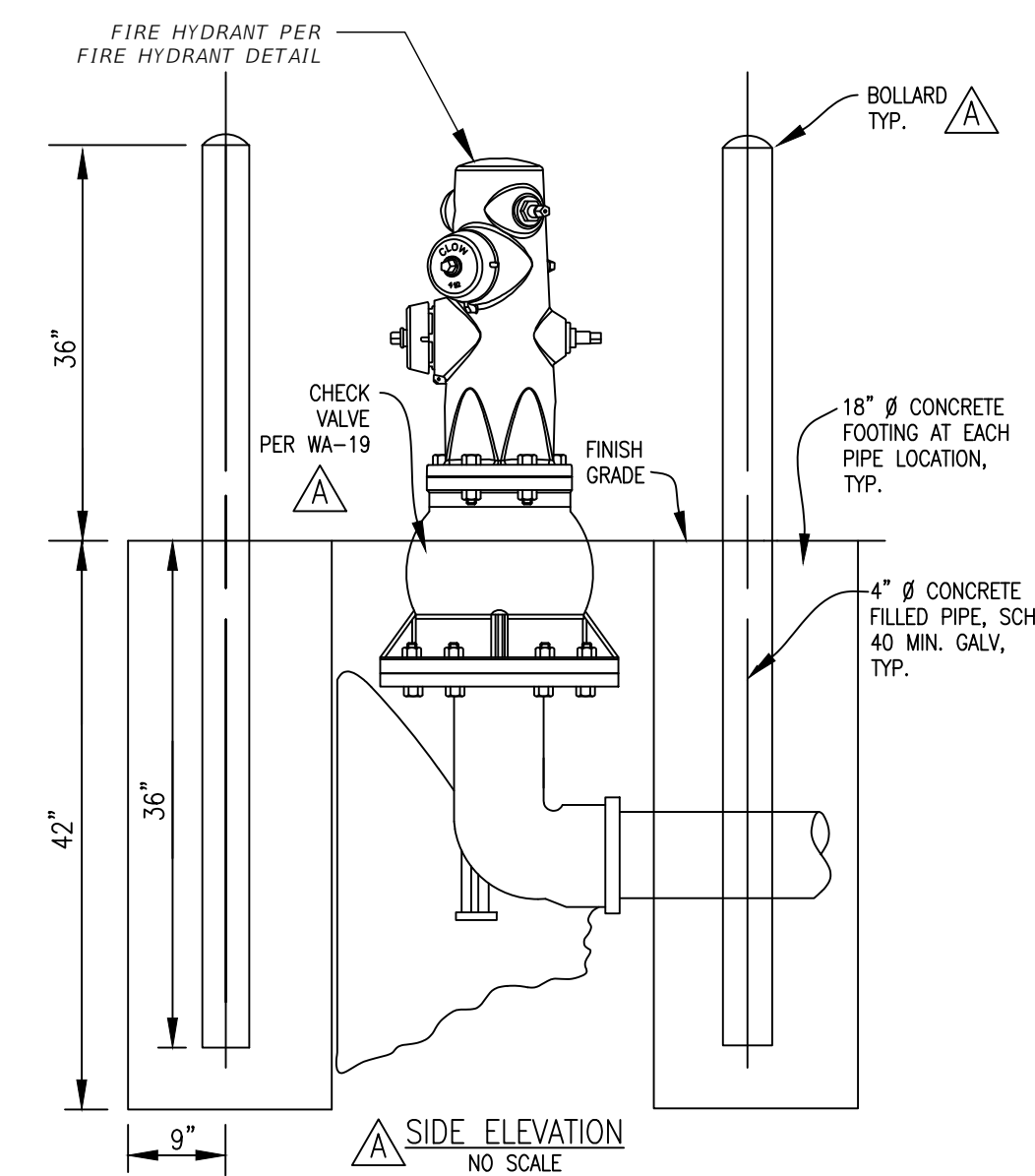
SIDEWALK DETAIL (ADJACENT TO CURB)
N.T.S.

- NOTES:
- CONCRETE PSI NO LESS THAN 3000
 - SIDEWALK WIDTH NO LESS THAN FIVE FEET
 - SUBGRADE SHALL BE FIRM AND UNYIELDING
 - LONGITUDINAL SLOPE SHALL NOT EXCEED 5%
 - MINIMUM CONCRETE THICKNESS NO LESS THAN FOUR INCHES AND NO LESS THAN SIX INCHES WITH FIBER MESH REINFORCING WHERE SIDEWALKS CROSS DRIVEWAYS
 - MINIMUM CLEAR WIDTH AROUND OBSTACLES SHALL BE 36 INCHES
 - CONCRETE SHALL BE CURED A MINIMUM 24 HOURS AFTER POURING
 - TOOLED CONTROL JOINTS 1/4 INCH DEEP SHALL BE PROVIDED AT A MAXIMUM OF EVERY FIVE FEET
 - EXPANSION JOINTS SHALL BE PROVIDED AT A MAXIMUM OF EVERY 50 FEET AND WHERE CONCRETE IS PLACED ADJACENT TO EXISTING CURBS, DRIVEWAYS, BUILDINGS, AND WALKWAYS.

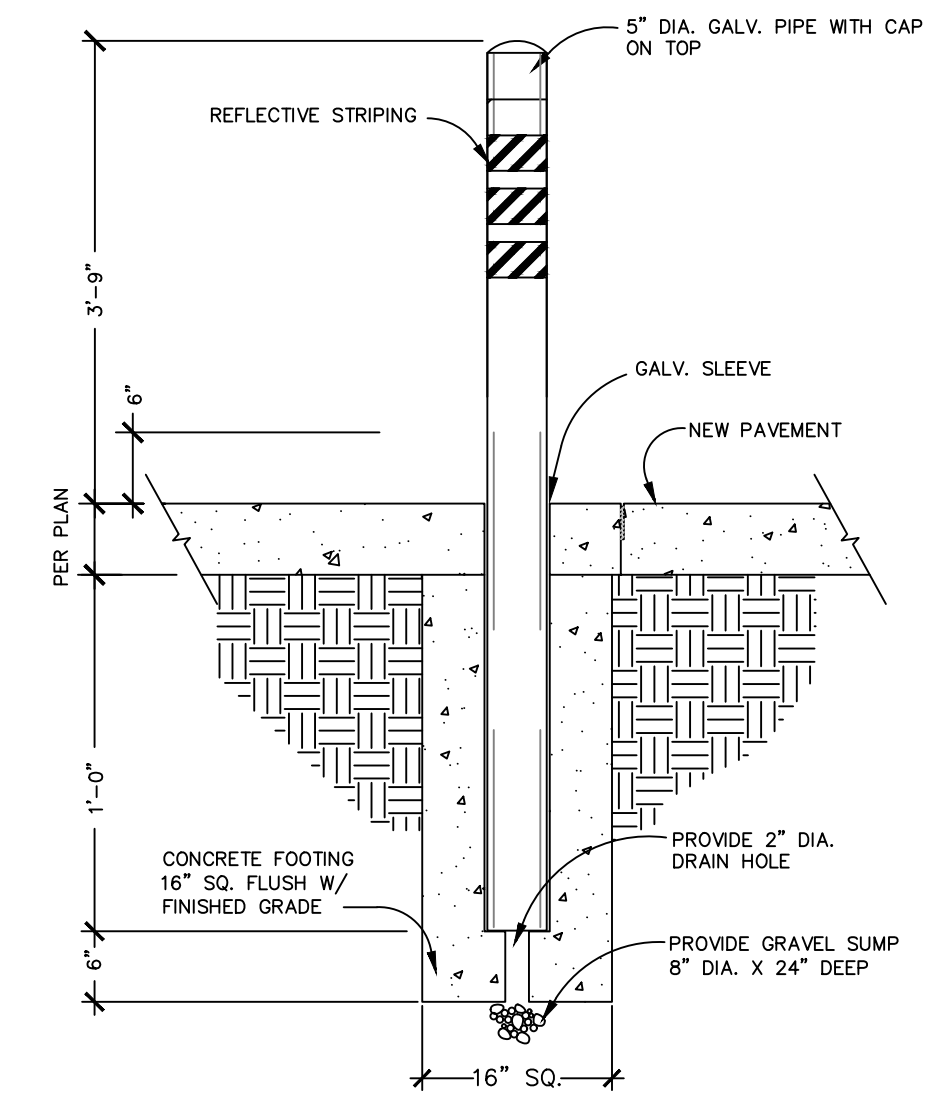
WARNING: GAS LINE IN AREAS OF CONSTRUCTION



- NOTES:
1) BOLLARDS SHALL NOT BLOCK HYDRANT OUTLETS



FIRE HYDRANT PROTECTION DETAIL
N.T.S.



- NOTES:
1. YELLOW REFLECTIVE TAPE SHALL BE PLACED ON EACH FACE OF BOLLARD.

AHJ ALDAY-HOWELL ENGINEERING, INC.
4100 S. FERDON BLVD, SITE B2
CRESTVIEW, FL 32636
PHONE (850) 634-6084 * FAX (850) 526-4740
E-MAIL : info@aldayhowell.com
FLORIDA CERTIFICATE OF AUTHORIZATION. NO. 26105

REVISIONS		
DESCRIPTION	INITIALS	DATE

CLIENT:
CITY OF CRESTVIEW

PROJECT:
VINEYARD VILLAGE

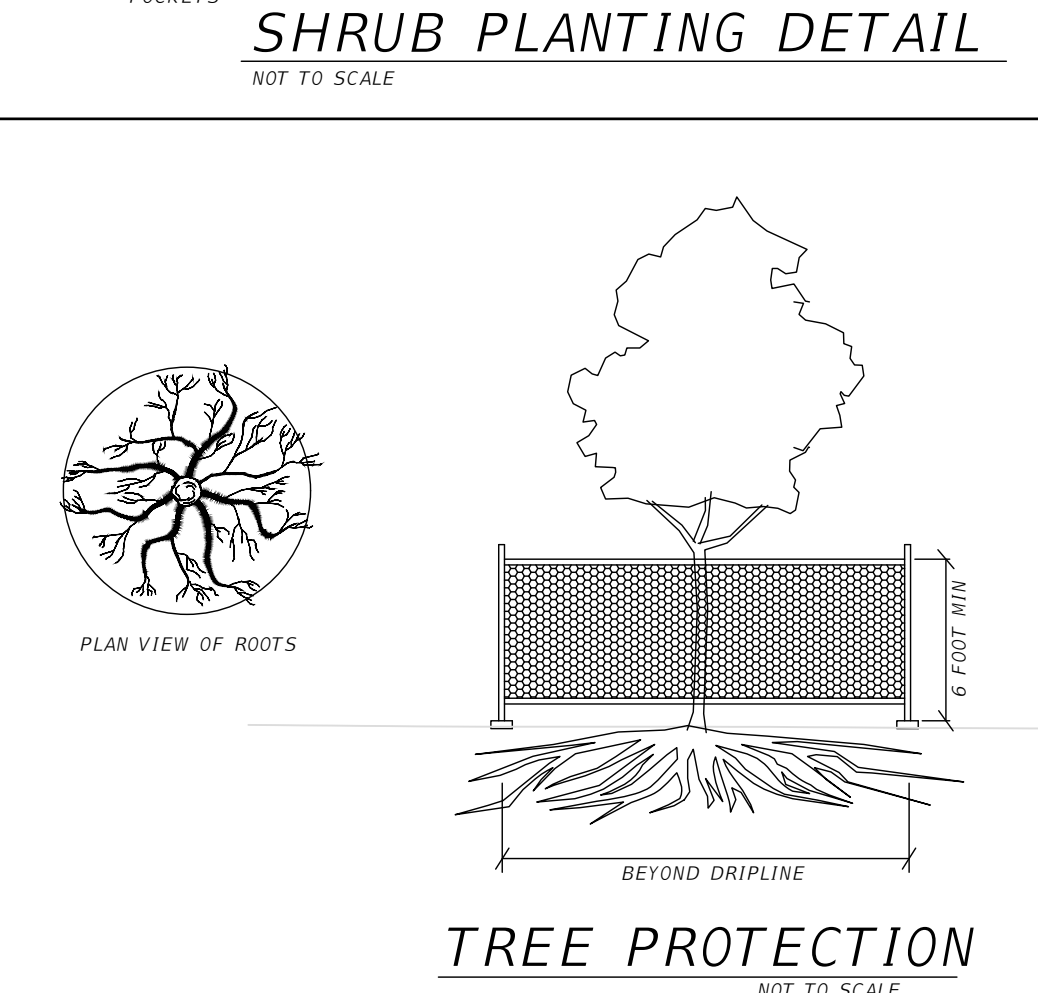
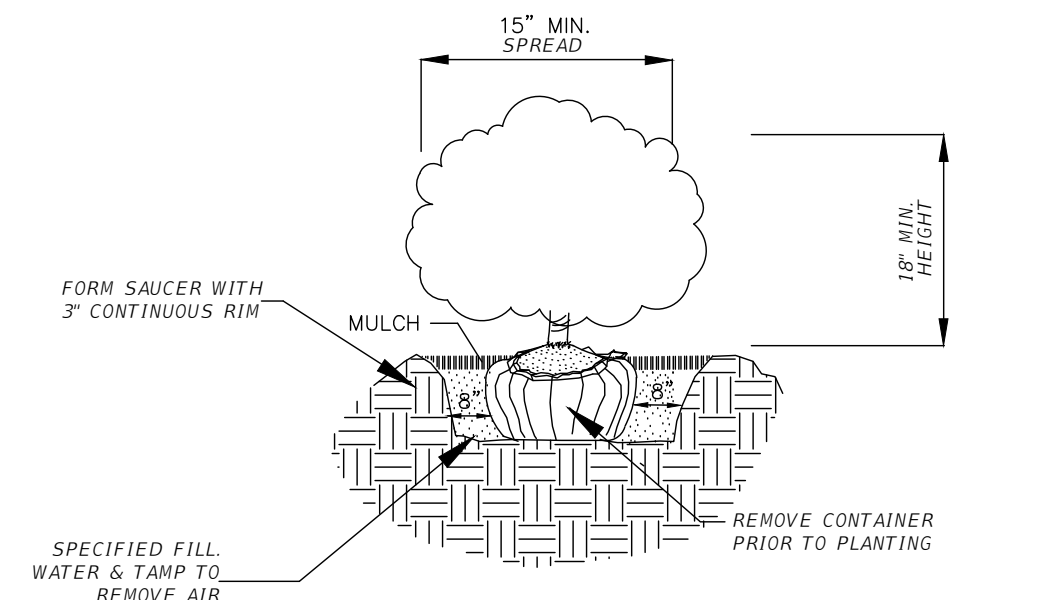
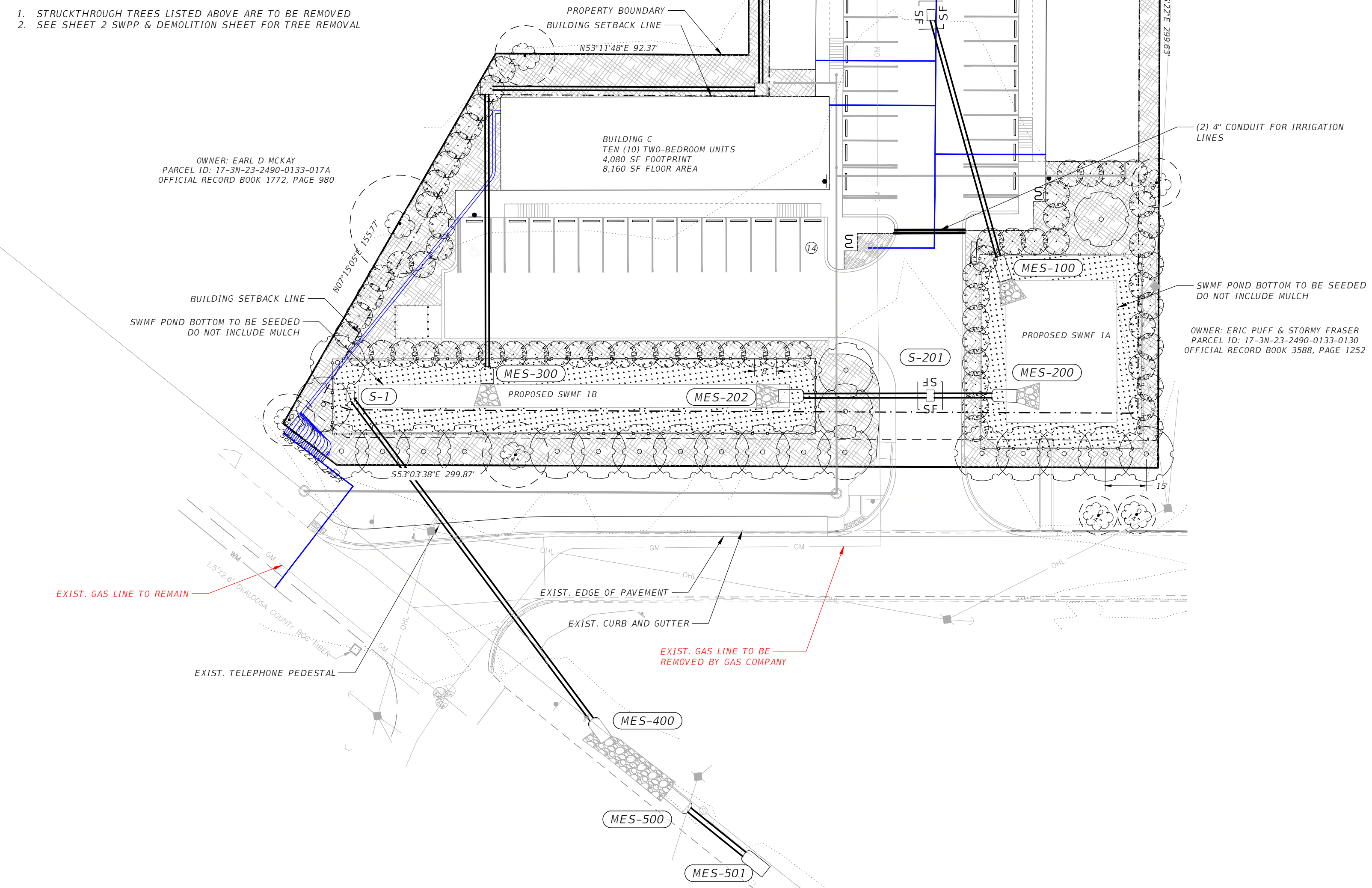
SHEET TITLE:
ADDITIONAL DETAILS

IF THIS LINE DOES NOT MEASURE ONE INCH IN LENGTH, THE SCALES ON THIS DRAWING ARE NOT VALID.

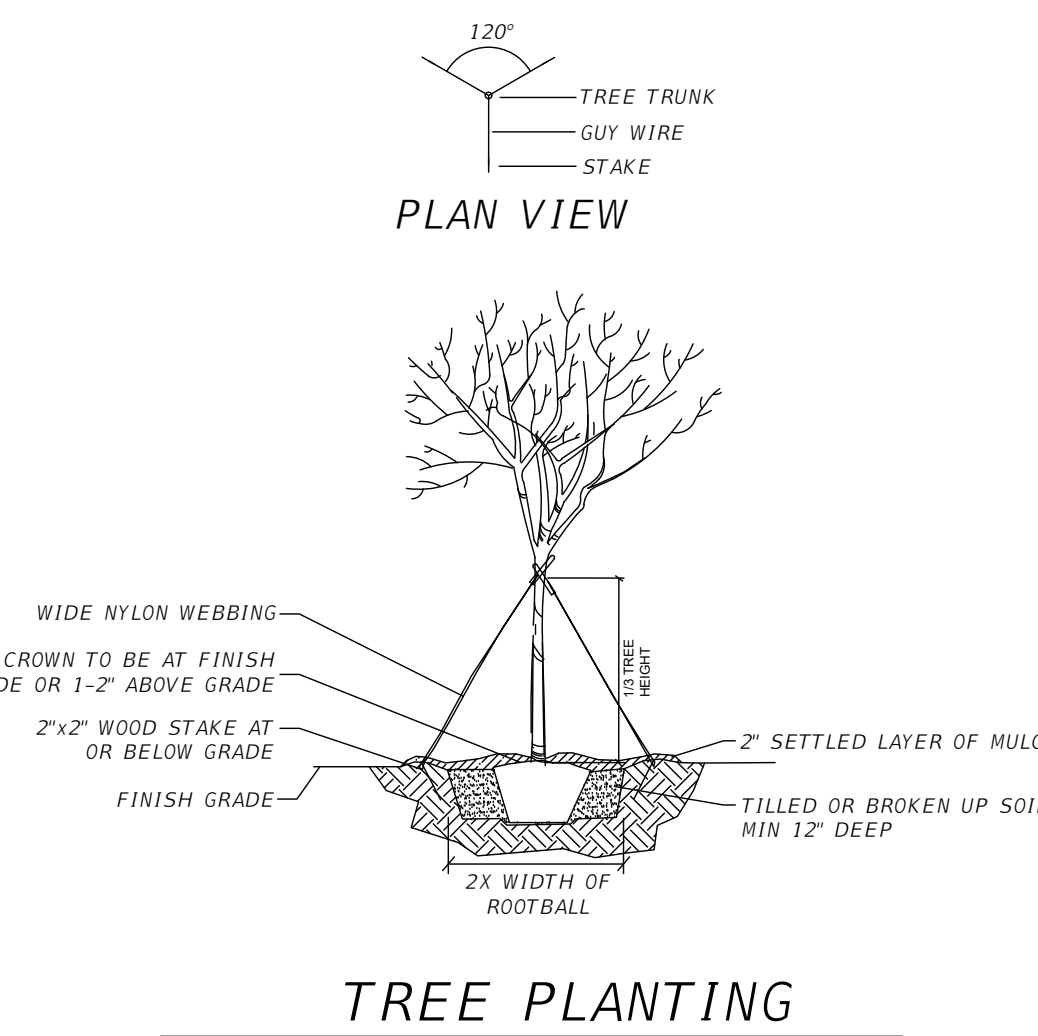
JOB NO. 22-030
DRAWN BY NCS
CHECKED BY JSF
DATE 10/12/23
SHEET 8

EXISTING TREE POINT TABLE			
NORTHING	EASTING	ELEVATION	DESCRIPTION
642831.089	1319097.199	239.349	19" WATER OAK WITH 50' CANOPY
642912.625	1319086.227	239.854	36" LAUREL OAK WITH 70' CANOPY
642912.679	1319116.390	239.775	36" LAUREL OAK WITH 70' CANOPY
642883.967	1319103.177	239.473	28" PECAN WITH 60' CANOPY
642870.755	1319170.774	238.983	24" RED CEDAR WITH 20' CANOPY
642906.816	1319244.812	239.181	44" LAUREL OAK WITH 70' CANOPY
642982.167	1319189.233	240.286	22" OAK LAUREL OAK WITH 60' CANOPY
642990.367	1319364.761	237.903	14" LAUREL OAK WITH 30' CANOPY
642981.644	1319353.857	237.969	14" LIVE OAK WITH 30' CANOPY
642971.920	1319340.159	238.731	16" LAUREL OAK WITH 40' CANOPY
642955.263	1319316.347	238.328	48" DOUBLE LAUREL OAK WITH 40' CANOPY
642933.705	1319286.332	239.009	24" PECAN WITH 60' CANOPY
643042.828	1319261.557	240.419	14" LAUREL OAK WITH 20' CANOPY
643053.134	1319288.698	239.573	24" PECAN WITH 60' CANOPY
643084.566	1319222.503	241.280	24" OAK LAUREL OAK WITH 50' CANOPY
643092.476	1319232.663	240.673	16" OAK LAUREL OAK WITH 40' CANOPY
643091.284	1319297.402	239.971	18" OAK LAUREL OAK WITH 40' CANOPY
642980.328	1319184.684	240.850	12" RED CEDAR WITH 20' CANOPY
642985.731	1319180.673	240.758	11" RED CEDAR WITH 30' CANOPY
642999.732	1319168.687	240.835	36" PECAN WITH 60' CANOPY
642960.382	1319094.210	240.724	25" OAK LAUREL OAK WITH 50' CANOPY
642989.017	1319085.575	240.693	22" PECAN WITH 40' CANOPY
643111.761	1319143.179	241.551	21" PECAN WITH 30' CANOPY
643116.033	1319235.361	241.089	18" PECAN WITH 40' CANOPY
643136.791	1319208.731	240.376	18" OAK LAUREL OAK WITH 40' CANOPY
643140.911	1319206.254	240.465	18" OAK WATER OAK WITH 50' CANOPY
643151.743	1319219.770	241.450	15" OAK LAUREL OAK WITH 40' CANOPY
643164.537	1319173.254	241.856	20" OAK LAUREL OAK WITH 30' CANOPY

- LANDSCAPE NOTES:**
- STRUCKTHROUGH TREES LISTED ABOVE ARE TO BE REMOVED
 - SEE SHEET 2 SWPP & DEMOLITION SHEET FOR TREE REMOVAL



- NOTES: TREE PROTECTION**
- REFER TO STANDARDS IN GENERAL SPECIFICATIONS FOR TREE PROTECTION.
 - DIAMETER OF PROTECTION ZONE SHOULD BE ONE FOOT FOR EACH INCH OF TRUNK DIAMETER BREAST HEIGHT OR 1/2 HEIGHT OF TREE, WHICHEVER IS GREATER. FOR 2-INCH CALIPER TREES OR SMALLER, THE PROTECTION ZONE SHALL BE 6 FOOT MINIMUM DIAMETER.
 - TEMPORARY FENCING (6 FT HIGH) SHALL BE PLACED AT THE DRIPLINE OF THE TREE TO BE SAVED. FENCE SHALL COMPLETELY ENCIRCLE THE TREE(S). TO INSTALL FENCE POSTS, AVOID DRIVING POSTS OR STAKES INTO MAJOR ROOTS.
 - DEAD TREES, SCRUB, OR UNDERGROWTH SHALL BE CUT FLUSH WITH ADJACENT GRADE. THERE WILL BE NO SOIL DISTURBANCE UNDER THE DRIP LINE OF TREES TO BE PRESERVED.
 - PLACE 6 INCHES OF BARK MULCH AT AREAS NOT PROTECTED BY BARRIER.
 - TREATMENT OF ROOTS EXPOSED DURING CONSTRUCTION: FOR ROOTS OVER 1 INCH IN DIAMETER DAMAGED DURING CONSTRUCTION, MAKE A CLEAN STRAIGHT CUT TO REMOVE DAMAGED PORTION OF ROOT. ALL EXPOSED ROOTS SHOULD BE TEMPORARILY COVERED WITH DAMP BURLAP AND COVERED WITH SOIL OR MULCH AS SOON AS POSSIBLE TO PREVENT DRYING.
 - FOR PRUNING GUIDELINES, SEE ANSI #300.
 - NO EQUIPMENT OR MACHINERY SHALL BE USED WITHIN THE PROTECTION FENCE. WORK WITHIN THE PROTECTION ZONE SHALL BE DONE MANUALLY.
 - NO STOCKPILING OF MATERIALS, VEHICULAR TRAFFIC, OR STORAGE IS ALLOWED WITHIN THE LIMIT OF THE FENCING.



- LANDSCAPE NOTES:**
- CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES PRIOR TO COMMENCING INSTALLATION OF LANDSCAPING.
 - CONTRACTOR SHALL INSTALL ONLY PLANTS GRADED FLORIDA #1, AS SET FORTH IN THE FLORIDA DEPARTMENT OF AGRICULTURE "GRADES AND STANDARDS FOR NURSERY PLANTS" PART 1 AND 2 AND REVISIONS, AND WHICH MEET OR EXCEED THE SIZES INDICATED IN THE PLANTING SCHEDULE, DETAILS, OR AS SPECIFIED IN THE PLAN. ALL PLANT MATERIAL SHALL BE HEALTHY, WELL PROPORTIONED, AND DISEASE FREE.
 - ALL PLANTS, LANDSCAPE MATERIALS, AND WORKMANSHIP ARE SUBJECT TO APPROVAL BY THE OWNER.
 - ALL PLANTS AND MATERIAL INSTALLATION SHALL MEET ALL OKALOOSA COUNTY LANDSCAPING REQUIREMENTS, AS SET FORTH WITHIN THE OKALOOSA COUNTY LAND DEVELOPMENT CODE, AS WELL AS INDUSTRY STANDARDS LANDSCAPE CONSTRUCTION.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING PLANTS AND GRASS UNTIL CONSTRUCTION IS COMPLETE, AT WHICH TIME THE RESPONSIBILITY WILL BECOME THAT OF THE OWNER.
 - AFTER ACCEPTANCE BY THE OWNER, THE OWNER SHALL BE RESPONSIBLE FOR MAINTAINING ALL LANDSCAPING REQUIRED BY OKALOOSA COUNTY IN PERPETUITY.
 - ALL PLANTING BEDS SHALL BE COVERED WITH LANDSCAPING FABRIC AND MULCHED WITH 2 INCHES OF PINE STRAW AFTER PLANTS HAVE BEEN INSTALLED.
 - FOR ALL SHRUB PLANT MATERIAL, MULCH PITS AND PLANTED AREAS PROVIDE NOT LESS THAN TWO INCHES (2") OF MULCH AND WORK INTO TOP OF PLANTING SOIL MIXTURE PRIOR TO TOP DRESSING WITH PINE STRAW.
 - FERTILIZE ALL TREES WITH A HIGH NITROGEN SLOW RELEASE 20-10-5 ANALYSIS FERTILIZER, AT AMOUNTS SPECIFIED BY MANUFACTURER.
 - TREAT ALL PLANTING BEDS WITH PRE-EMERGENT AND POST-EMERGENT HERBICIDES IN ACCORDANCE TO MANUFACTURER'S SPECIFICATIONS.
 - VERIFY ALL QUANTITIES IN THE PLANTING SCHEDULE PRIOR TO PRICING. INSTALL ALL PLANTS AND MATERIALS AS SHOWN ON THE PLANS, SCHEDULE, OR DETAILS.
 - CONTRACTOR SHALL PROVIDE A ONE YEAR GUARANTEE ON ALL PLANTS OR INSTALLED MATERIALS.
 - NO SUBSTITUTIONS OR REVISIONS ARE ALLOWED WITHOUT PRIOR APPROVAL OF THE OWNER AND OKALOOSA COUNTY PLANNING DEPARTMENT. NO EXCEPTIONS.
 - LANDSCAPING PROPOSED IS MINIMUM TO MEET OKALOOSA COUNTY CODE. CONTRACTOR TO COORDINATE WITH OWNER TO DETERMINE IF ADDITIONAL LANDSCAPING IS PREFERRED.
 - ALL LANDSCAPED AREAS AND BUFFERS ARE TO BE IRRIGATED. CONTRACTOR TO COORDINATE WITH OWNER WHEN DESIGNING IRRIGATION SYSTEM FOR THESE AREAS.

- IRRIGATION NOTES:**
- AUTOMATIC IRRIGATION SYSTEM TO PROVIDE 100% COVERAGE OF ALL LANDSCAPE AREAS.
 - CONTRACTOR TO LOCATE AND SUPPLY ELECTRICAL POWER TO CONTROLLER.
 - CONTRACTOR TO PROVIDE AND PAY FEES FOR SEPARATE IRRIGATION METER.
 - PROVIDE BACKFLOW PREVENTION PER CITY REQUIREMENTS.
 - PROVIDE RAIN SHUT OFF DEVICE PER FLA. STATE LAW.

TREE PLAN
REQUIRED: 50% OF TOTAL DIAMETER OF REMOVED TREES TO BE REPLANTED
490' OF REMOVED PROTECTED TREES = 245' OF REPLACEMENT TREES
PROVIDED: 76 2" YAUPON TREES (ILEX VOMITORIA) = 152'
31 3" BRADFORD PEAR TREES (PYRUS CALLERYANA "BRADFORD") = 93'
93'+152'=245'

NOTE:
ALL REMAINING DISTURBED AREAS, NOT OTHERWISE NOTED TO BE SODED, SHALL BE SEEDED, MULCHED AND FERTILIZED. GRASS SEED WILL BE PLANTED USING THE FOLLOWING BLEND.

BERMUDA	60 POUNDS/ACRE
TEMPORARY SEED	30 POUNDS/ACRE
TOTAL SEEDING RATE	90 POUNDS/ACRE

FROM APRIL THROUGH SEPTEMBER, USE BROWN-TOP OR JAPANESE MILLET AND FROM OCTOBER THROUGH MARCH, ANNUAL RYE GRASS
AFTER SEEDING, APPROXIMATELY TWO INCHES (LOOSE THICKNESS) OF MULCH MATERIAL SHALL BE APPLIED OVER THE SEEDED AREA AND CUT INTO THE SOIL.

- LEGEND:**
- INDICATES AREA TO BE SODED
 - INDICATES AREA TO BE SEEDED & MULCHED AS PER SEEDING RATES
 - INDICATES EXIST. PROTECTED TREES TO REMAIN.
 - INDICATES YAUPON TREES 2" MIN DIA.
 - INDICATES BRADFORD PEAR TREES 3" MIN DIA.

WARNING: GAS LINE IN AREAS OF CONSTRUCTION

C:\Users\Nathan\Alday-Howell Engineering\22-030 Vineyard Village - General\Drawings\LANDSCAPE\Nathan - 11.27.2023 - 11.27.2023.dwg, LANDSCAPE, Nathan, Oct 12, 2023, 11:27:55am

Alday-Howell ENGINEERING, INC.
4100 S. FERDON BLVD, SITE B2
CRESTVIEW, FL 32536
PHONE (850) 634-6084 * FAX (850) 526-4740
E-MAIL : info@aldayhowell.com
FLORIDA CERTIFICATE OF AUTHORIZATION. NO. 26105

REVISIONS		
DESCRIPTION	INITIALS	DATE

CLIENT:
CITY OF CRESTVIEW

PROJECT:
VINEYARD VILLAGE

SHEET TITLE:
LANDSCAPE PLAN

1" = 1'

IF THIS LINE DOES NOT MEASURE ONE INCH IN LENGTH, THE SCALES ON THIS DRAWING ARE NOT VALID.

NOT VALID UNLESS EMBOSSED

JOB NO. 22-030
DRAWN BY NMM
CHECKED BY JSF
DATE 10/12/23
SHEET 9