# CONSTRUCTION PLANS FOR TRANSITION HOMES

# SECTION 11, TOWNSHIP 19 SOUTH, RANGE 26 EAST CITY OF EUSTIS, LAKE COUNTY, FLORIDA

OWNER/DEVELOPER: FORWARD PATHS FOUNDATION, INC. 1005 WEST MAIN STREET # 102 LEESBURG, FL, 34748 PHONE: (352) 801-8631

ENGINEER/PLANNER/SURVEYOR: HALFF 902 NORTH SINCLAIR AVENUE

### UTILITY COMPANIES

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LEESBURG, FL 34788
(352) 787-7875 EXT. 155
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WATER / WASTEWATER:
CITY OF EUSTIS
10 N. GROVE ST
P.O. BOX 1068
EUSTIS, FL 32726
PHONE (352) 483-5460
CONTACT: LORI BARNES
(DEVELOPMENT SERVICES DIRECTOR)

CONTRACTOR TO PROVIDE FORTY-EIGHT (48) HOUR ADVANCE NOTIFICATION TO THE UTILITY COMPANY AND THE ENGINEER OF RECORD PRIOR TO ANY REQUIRED TEST OF THE UTILITIES, WATER SYSTEM, ETC.

### WAIVER:

THE LAND DEVELOPMENT REGULATIONS WERE ADOPTED PRIOR TO THE TINY HOME MOVEMENT AND THE REQUIREMENT FOR A GARAGE HAS CREATED A CONFLICT. TINY HOMES PROVIDE AN AFFORDABLE HOUSING OPTION AND PROVIDE COST EFFECTIVE LIVING AND LIFESTYLE OPTIONS FOR TRANSITIONAL HOUSING TO MEET THE NEEDS OF STUDENTS.

SECTION 110-5.8 (A) REQUIRES THAT ALL SINGLE FAMILY DWELLINGS, INCLUDING MOBILE HOMES, DUPLEXES, TRIPLEXES, ROW HOUSES AND THE LIKE PROVIDE A MINIMUM 300 SQUARE FOOT GARAGE WITH STORAGE. THE APPLICANT IS PROVIDING THE REQUIRED TWO (2) PARKING SPACES PER UNIT WITHIN AN ASPHALT PARKING LOT LOCATED ON SITE. A TOTAL NUMBER OF TWENTY (20) SPACES, TWO (2) OF WHICH ARE HANDICAPPED, ARE PROVIDED FOR. SINCE THESE ARE TRANSITIONAL HOMES, OUTSIDE STORAGE FOR EACH UNIT IS NOT NECESSARY. HOWEVER, A 24' X 33' STORAGE BUILDING (792 SQUARE FEET) IS PROPOSED ON SITE FOR OUTSIDE STORAGE.

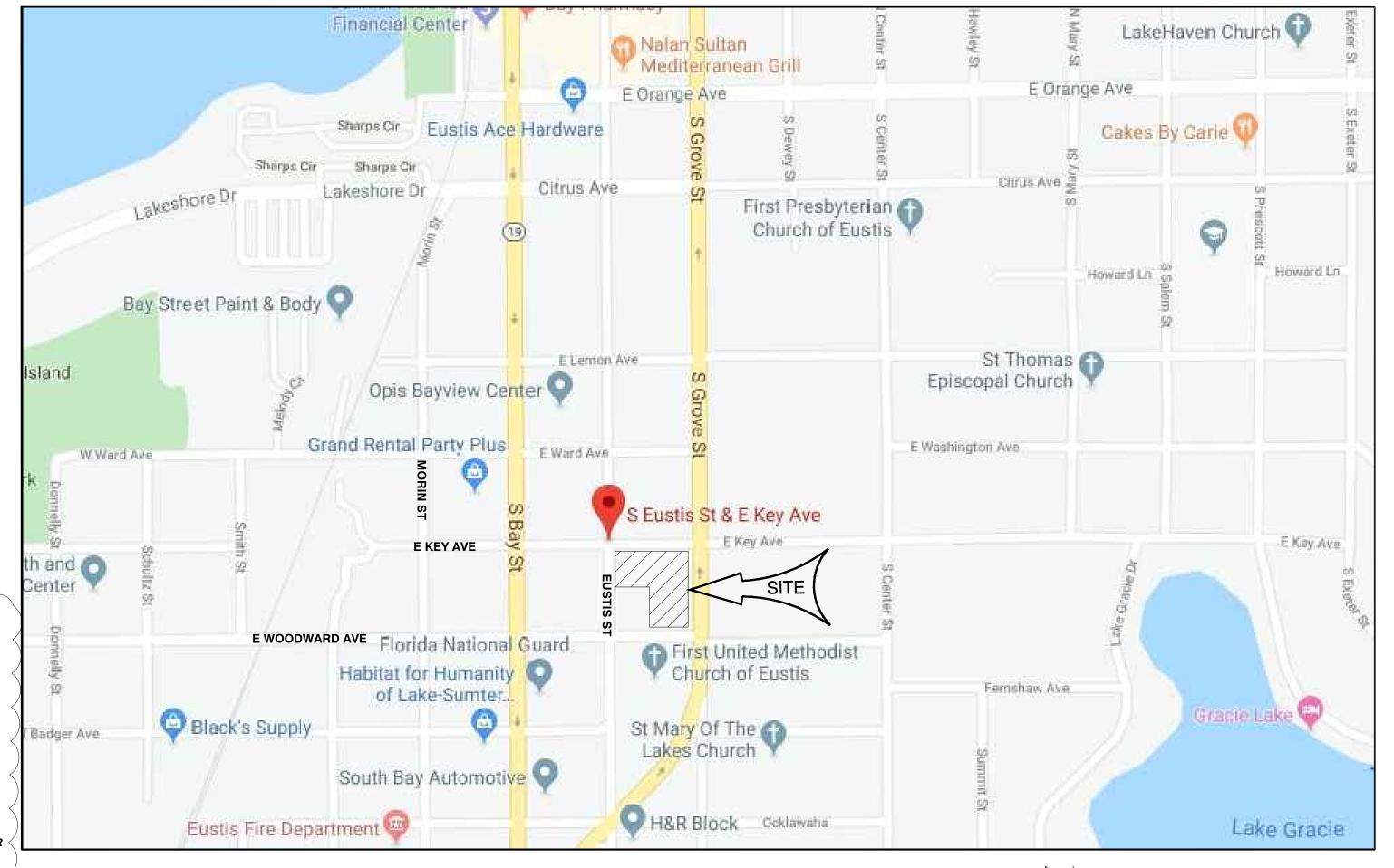
THERE ARE NO UNSAFE CONDITIONS OR DETRIMENTS TO PUBLIC WELFARE CREATED BY PROVIDING THE PARKING SPACES FOR THE TINY HOMES WITHIN A PAVED ASPHALT PARKING LOT ONSITE. A TOTAL OF TWENTY (20) SPACES ARE PROVIDED, TWO (2) HANDICAPPED, WHICH EQUATES TO THE REQUIRED TWO (2) PARKING SPACE PER UNIT REQUIREMENT. SIDEWALKS ARE PROVIDED TO AND FROM THE PARKING LOTS AND TINY HOMES. A 24' X 33' STORAGE BUILDING (792 SQUARE FEET) FOR OUTSIDE STORAGE IS PROPOSED ON SITE.

CLOSE TO 80% OF THE RESIDENTS THAT WILL RESIDE IN THE TINY HOMES DO NOT OWN VEHICLES. A STUDY DONE AT BERKELEY BY THE TERNER CENTER (HTTPS://TERNERCENTER.BERKELEY.EDU/WP-CONTENT/UPLOADS/2020/11/TINY\_HOUSES\_STUDY\_FINAL\_TERNER.PDF), PROVIDES THAT MANY TINY HOME VILLAGES EITHER PROVIDE TRANSPORTATION (BY ARRANGING FOR A BUS TO COME TO THE COMMUNITY), OR LOCATE THEIR COMMUNITY CLOSE TO PUBLIC TRANSPORTATION (USUALLY WITHIN 1/8-1/2 MILE). THE LOCATION OF THIS SITE IS LOCATED CLOSE TO LAKE COUNTY PUBLIC TRANSPORTATION BUS STOPS LOCATED ON GROVE STREET (WITHIN APPROXIMATELY 1,200 FEET OF THE SITE), AND ON LAKEVIEW AVENUE (WITHIN APPROXIMATELY 2,200 FEET OF THE SITE). THE STUDY STATES THAT PARKING, OPEN SPACE, AND LOT COVERAGE REQUIREMENTS SHOULD BE WAIVED BECAUSE MANY OF THESE REQUIREMENTS DO NOT APPLY TO THE SCALE OF TINY HOUSE VILLAGE DEVELOPMENTS.

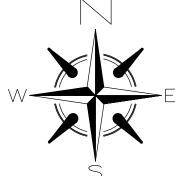
THE APPLICANT MEETS THE INTENT AND PURPOSE OF THE LAND DEVELOPMENT REGULATIONS AND THE POLICIES OF THE COMPREHENSIVE PLAN BY PROVIDING THE REQUIRED PARKING SPACES OF TWO (2) SPACES PER UNIT ONSITE. THE ONLY REQUEST FOR RELIEF IS TO PROVIDE THE PARKING SPACES IN A PARKING LOT.

THE RELIEF GRANTED IS THE MINIMUM DEGREE OF RELIEF NECESSARY, TO MAKE POSSIBLE THE REASONABLE USE OF THE LAND. THE APPLICANT IS NOT PROPOSING LESS PARKING SPACES THAN ARE REQUIRED BY CODE PER UNIT, JUST REQUESTING THAT THEY BE ABLE TO PROVIDE THE PARKING SPACES IN A PARKING LOT LOCATED ON SITE. THERE WILL BE SIDEWALKS FROM THE PARKING LOT TO THE TINY HOMES.

CITY OF EUSTIS PROJECT # 2022-SP-03



VICINITY MAP



### INDEX OF SHEETS

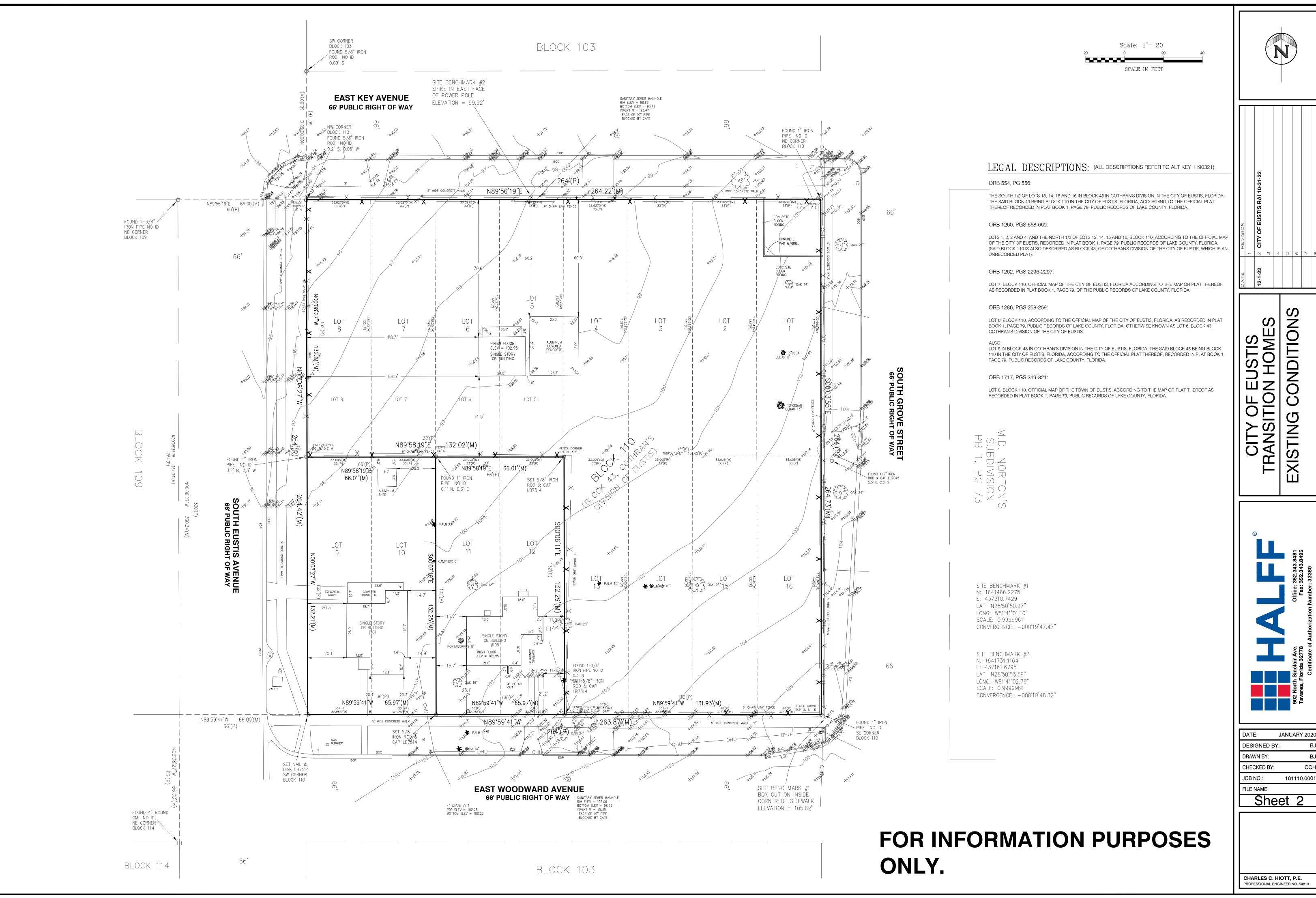
- 1 COVER SHEET
- 2 EXISTING CONDITIONS PLAN
- 2A AERIAL PHOTOGRAPH
- 3 EROSION CONTROL AND DEMOLITION PLAN
- 4 SITE PLAN
- 5 UTILITY PLAN
- GRADING PLAN
- 7-8 DETAILS



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LEGEND SILT FENCE TREE TO BE REMOVED

Scale: 1"= 20' SCALE IN FEET

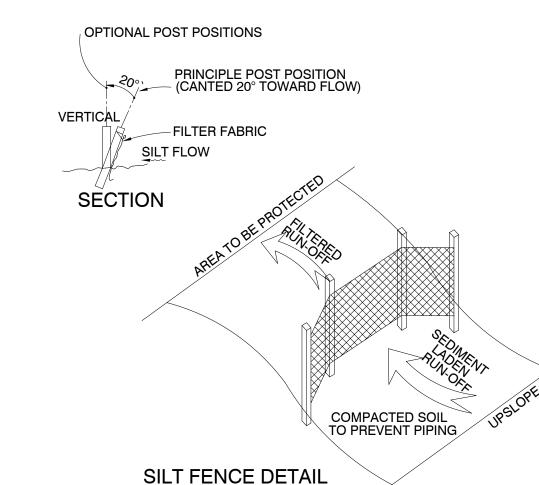
Post Options: Wood 2-1/2" Min. 0 Wood 2" x 4" Oak 1-1/2" x 1-1/2" FILTER FABRIC (IN Steel 1.33 Lbs/Ft. Min. CONFORMANCÈ WITH SEC. 985 FDOT SPEC.) 15" to 18" 3' Or More **ELEVATION** 12" Min.

### TEMPORARY CONSTRUCTION ENTRANCE

1. THE AREA OF THE ENTRANCE SHOULD BE CLEARED OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL A GEOTEXTILE SHOULD BE INSTALLED TO IMPROVE STABILITY AND SIMPLIFY MAINTENANCE. THE GRAVEL SHALL THEN BE PLACED OVER THE GEOTEXTILE.

2. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF MUD ONTO PUBLIC ROADS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2-INCH STONE, AS CONDITIONS DEMAND WLL MATERIALS SPILLED, DROPPED, OR TRACKED FROM VEHICLES ONTO ROADWAYS MUST BE REMOVED IMMEDIATELY. LOOK FOR SIGNS OF TRUCKS AND TRAILERED EQUIPMENT CUTTING CORNERS WHERE THE GRAVEL MEETS THE ROADWAY. SWEEP THE PAVED ROAD DAILY FOR SEDIMENTS

3. CONSTRUCTION SITE OPERATORS MUST CONTROL WASTE SUCH AS DISCARDED BUILDING MATERIALS CONCRETE TRUCK WASHOUT, CHEMICALS, LITTER AND SANITARY WASTE AT THE CONSTRUCTION SITE THAT MAY CAUSE ADVERSE IMPACTS TO WATER QUALITY.



**EROSION AND SEDIMENT CONTROLS** 

A. EROSION CONTROL DURING CONSTRUCTION 1. TEMPORARY EROSION CONTROL STRUCTURE SHALL BE UTILIZED DURING CONSTRUCTION OF AREAS ON-SITE WHERE UNSTABILIZED GRADES MAY CAUSE EROSION

2. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE COORDINATED WITH PERMANENT MEASURES TO ASSURE ECONOMICAL, EFFECTIVE AND

MEASURES AROUND THE PERIMETER OF THE PROJECT OF THE INITIAL WORK ARE TO PROTECT THE PROJECT, ADJACENT PROPERTIES, AND WATER RESOURCES. 4. STORM WATER MANAGEMENT AREAS, STORM SEWER SYSTEM AND CONTROL STRUCTURES SHALL BE EXCAVATED T ROUGH GRADE PRIOR TO BUILDING CONSTRUCTION OR PLACEMENT OF IMPERVIOUS SURFACE WITHIN THE AREA TO BE SERVED BY THE FACILITIES. TO PREVENT REDUCTION IN STORAGE VOLUME AND PERCOLATION RATE, ALL ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE STORM WATER FACILITIES PRIOR TO FINAL GRADING, STABILIZATION AND

5. EROSION CONTROL STRUCTURES, SUCH AS SILT FENCE AND BERMS, SHALL BE INSTALLED AROUND INLETS AND IN SWALES TO TRAP ERODED MATERIAL, PREVENT SEDIMENTATION IN DOWN STREAM AREAS AND KEEP RUNOFF VELOCITIES LOW.

6. THE CONTRACTOR SHALL MINIMIZE THE EXTENT OF AREA EXPOSE AT ANY ONE TIME AND THE DURATION OF EXPOSURE. 7. STABILIZATION MEASURES SHALL BE INITIATED FOR EROSION AND SEDIMENT CONTROL ON DISTURBED GRASS NO MORE THAN FOURTEEN (14) DAYS AFTER THE

CONSTRUCTION ACTIVITY IN ANY PORTION OF THE SITE THAT HAS CEASED. 8. THE CONTRACTOR WILL INSTALL A PERMANENT PROTECTIVE VEGETATIVE COVER FOR EROSION AND SEDIMENT CONTROL ON ALL LAND SURFACES DISTURBED BY

CONSTRUCTION. THIS PROTECTIVE COVER MUST BE INSTALLED WITHIN FOURTEEN (14) DAYS AFTER FINAL GRADING OF THE EFFECTED LAND SURFACES. A PERMANENT VEGETATIVE COVER MUST BE ESTABLISHED WITHIN SIXTY (60) DAYS AFTER PLANTING OR INSTALLATION. 9. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE ADEQUATELY MAINTAINED TO PERFORM THEIR INTENDED FUNCTION DURING CONSTRUCTION OF THE

PROJECT. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER. 10. PLACEMENT OF BARRIERS OR NECESSARY REPAIRS TO BARRIERS SHALL BE ACCOMPLISHED PROMPTLY.

11. MATERIAL FROM SEDIMENT TRAPS SHALL NOT BE STOCK PILED OR DISPOSED OF IN A MANNER WHICH MAKES THEM READILY SUSCEPTIBLE TO BEING WASHED INTO ANY WATER COURSE BY RUNOFF OR HIGH WATER. 12. ANY ACCUMULATED SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE BARRIERS ARE NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE

EXISTING GRADE, PREPARED AND SEEDED. 13. TO PROVIDE DUST CONTROL, A CONTRACTOR SHALL PROVIDE A WATER TRUCK OR IRRIGATION SYSTEM AS NEEDED, TO MAINTAIN SOIL MOISTURE. 14. IF SITE SPECIFIC CONDITIONS REQUIRE ADDITIONAL MEASURES DURING ANY PHASE OF CONSTRUCTION OR OPERATION TO PREVENT EROSION OR CONTROL SEDIMENT, BEYOND THOSE SPECIFIED IN THE EROSION AND SEDIMENT CONTROL PLAN, THE CONTRACTOR MUST IMPLEMENT ADDITIONAL BEST MANAGEMENT

PRACTICES AS NECESSARY, IN ACCORDANCE WITH THE SPECIFICATION IN SECTION 6 OF THE FLORIDA LAND DEVELOPMENT MANUAL; A GUIDE TO LAND AND WATER

B. PERMANENT STABILIZATION

WHERE CONSTRUCTION IS COMPLETE, PERMANENT VEGETATION SHALL BE INSTALLED AS SPECIFIED ON THE CONSTRUCTION PLANS AND IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATION DOCUMENT. PERMANENT VEGETATION WILL INCLUDE SOD OR SEED AND MULCH.

STORM WATER MANAGEMENT SYSTEM

THE STORMWATER RETENTION PONDS SHALL BE EXCAVATED TO ROUGH GRADE PRIOR TO BUILDING CONSTRUCTION OR PLACEMENT OF IMPERVIOUS SURFACES WITHIN THE DRAINAGE AREA SERVED BY THIS FACILITY. ALL ACCUMULATED SEDIMENT MUST BE REMOVED FROM THE RETENTION POND PRIOR TO FINAL GRADING,

OTHER CONTROLS

MANAGEMENT.

A. OFFSITE VEHICLE TRACKING

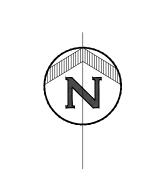
PAVED STREETS ADJACENT TO THE CONSTRUCTION SITE ENTRANCE WILL BE SWEPT AS NEEDED TO PREVENT EXCESS MUD, DIRT, OR ROCK FROM LEAVING THE CONSTRUCTION SITE. ALL DUMP TRUCKS HAULING MATERIAL TO AND FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARP. TEMPORARY STABILIZED OR ROCK CONSTRUCTION ENTRANCE MAY BE REQUIRED TO REMOVE EXCESS DIRT AND MUD FROM TIRES BEFORE CONSTRUCTION VEHICLES ENTER ADJACENT PAVED

TIMING OF SEDIMENT AND EROSION CONTROL MEASURES

A SILT FENCE SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITY. THE RETENTION PONDS AND THE STORM WATER CONVEYANCE SYSTEM SHALL BE CONSTRUCTED PRIOR TO THE PLACEMENT OF ANY IMPERVIOUS AREA. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 14-DAYS SHALL BE STABILIZED WITH TEMPORARY SEED AND MULCH. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN ANY AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SEED AND MULCH OR SOD. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WITHIN ANY CATCH BASIN, STORM PIPES OR RETENTION PONDS WILL BE REMOVED.

### **EROSION CONTROL STRUCTURE**

THE FOLLOWING REPRESENTS A BASIC EROSION AND SEDIMENT CONTROL PROGRAM WHICH IS TO BE IMPLEMENTED TO HELP PREVENT OFF-SITE SEDIMENTATION DURING AND AFTER CONSTRUCTION OF THE PROJECT. PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AT THE EARLIEST PRACTICAL TIME CONSISTENT WITH GOOD CONSTRUCTION PRACTICES. ONE OF THE FIRST CONSTRUCTION ACTIVITIES SHOULD BE THE PLACEMENT OF PERMANENT AND TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AROUND THE PERIMETER OF THE PROJECT OR THE INITIAL WORK AREA TO PROTECT THE PROJECT, ADJACENT PROPERTIES AND WATER RESOURCES. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE COORDINATED WITH PERMANENT MEASURES TO ASSURE ECONOMICAL, EFFECTIVE AND CONTINUOUS CONTROL THROUGHOUT THE CONSTRUCTION PHASE, TEMPORARY MEASURES SHALL NOT BE CONSTRUCTED FOR EXPEDIENCY IN LIEU OF PERMANENT MEASURES. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE ADEQUATELY MAINTAINED TO PERFORM THEIR INTENDED FUNCTION DURING CONSTRUCTION OF THE PROJECT. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BARRIERS SHALL BE ACCOMPLISHED PROMPTLY. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER. MATERIAL FROM SEDIMENT TRAPS SHALL NOT BE STOCKPILED OR DISPOSED OF IN A MANNER WHICH MAKES THEM READILY SUSCEPTIBLE TO BEING WASHED INTO ANY WATERCOURSE BY RUNOFF OR HIGH WATER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE BARRIERS ARE NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

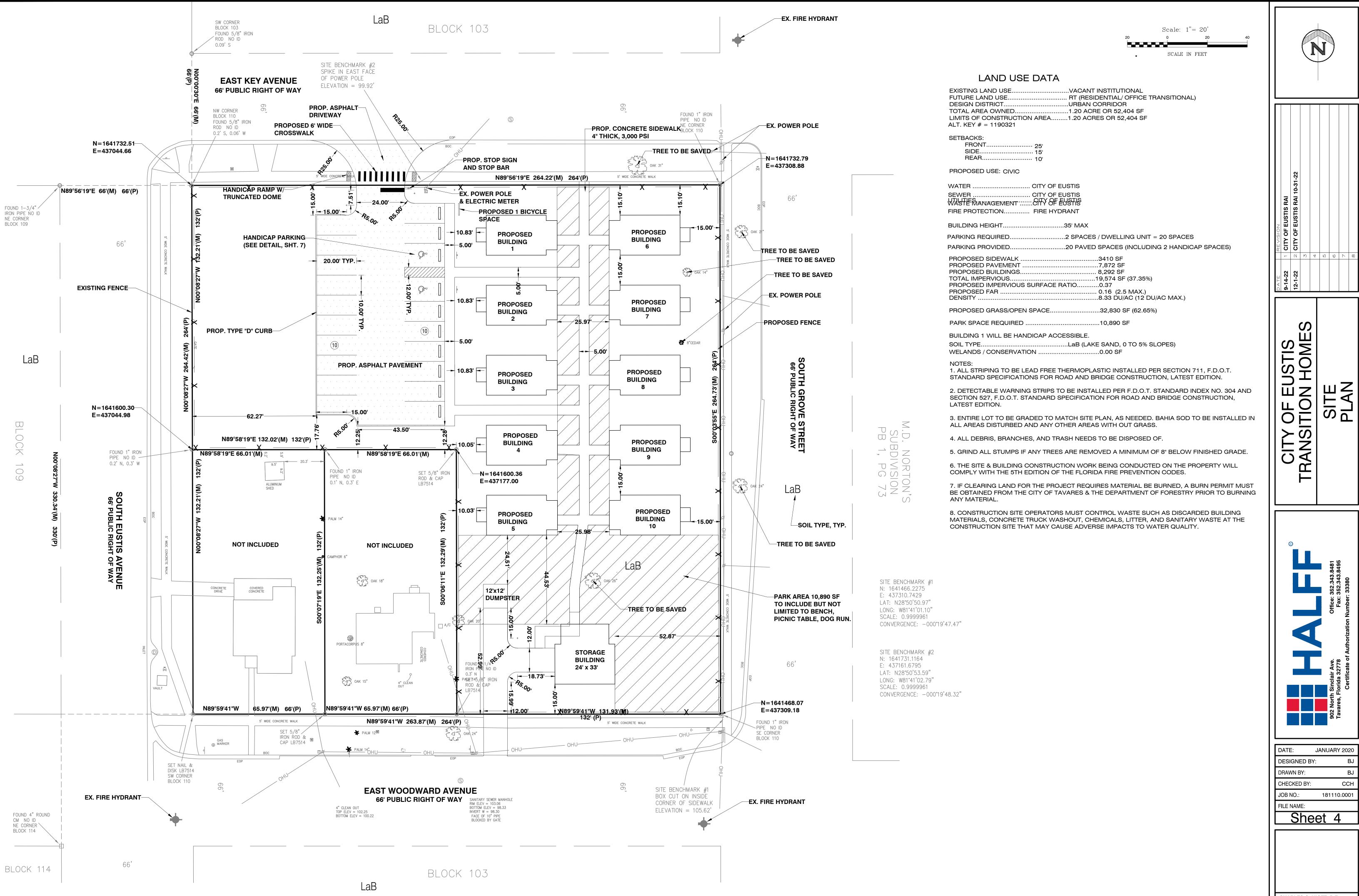


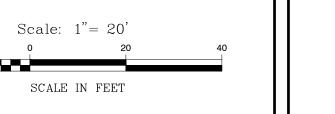
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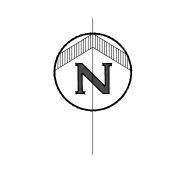
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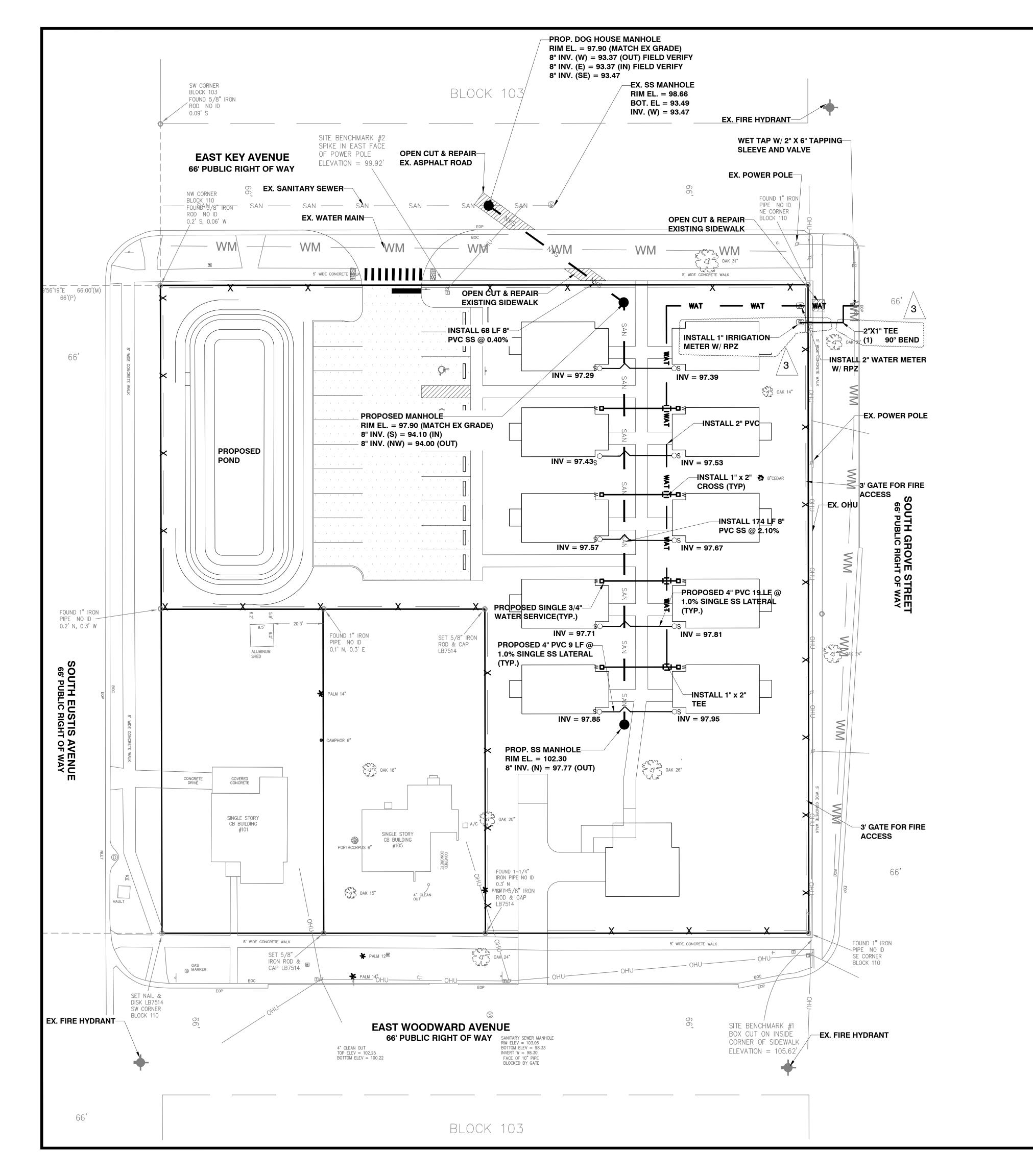


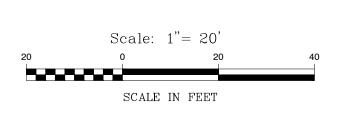
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CHARLES C. HIOTT, P.E. PROFESSIONAL ENGINEER NO. 54813





### NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCATION OF ALL UTILITIES PRIOR TO BEGINNING ANY EXCAVATION.

- 2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 3. ALL POLYETHYLENE MATERIAL SHALL BE PER AWWA C901.
- 4. ALL WATER, SEWER & REUSE LINES AND VALVES AS WELL AS METERS, METER BOXES, LOCKABLE CURB STOPS AND BACKFLOWS TO BE INSTALLED BY THE CONTRACTOR/DEVELOPER PER CITY OF EUSTIS ENGINEERING AND DESIGN STANDARDS.
- 5. WATER VALVES TO BE PLACED PER CITY OF EUSTIS LAND DEVELOPMENT REGULATIONS DENSITY REQUIREMENTS OR AS NEEDED DURING REVIEW BY CITY STAFF.
- 6. THE SITE AND BUILDING CONSTRUCTION WORK BEING CONDUCTED ON THE PROPERTY WILL COMPLY WITH THE 6TH EDITION OF THE FLORIDA FIRE PREVENTION CODES.
- 7. ALL UTILITY WORK SHALL COMPLY WITH THE CURRENT CITY OF EUSTIS CSM STANDARDS AND APPROVED MANUFACTURER LIST AS POSTED ON THE CITY OF EUSTIS WEBSITE.
- 8. ALL UTILITY SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD & THE CITY OF EUSTIS UTILITY DEPARTMENT.

9. ALL WATER AND SEWER LINES OUTSIDE THE RIGHT OF WAY SHALL BE PRIVATELY OWNED AND MAINTAINED.

### WATER NOTES:

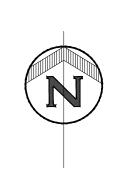
- 1. THE CITY OF EUSTIS MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO ANY WET TAPS.
- 2. IF THE CITY OF EUSTIS TAKES OWNERSHIP OF THE UTILITIES, ALL INSTALLATIONS & MATERIALS WILL FULLY COMPLY WITH THE NEWEST STANDARDS.
- 3. CONSTRUCTION METERS MUST BE OBTAINED FROM THE CITY OF EUSTIS.

### **SANITARY SEWER NOTES:**

- 1. ALL SANITARY SEWER MAINS & LATERALS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER. ALL APPROVED PVC PIPE SHALL BE INSTALLED WITH TRACING WIRE.
- 2. ALL SANITARY SEWER MAINS & SERVICE LATERALS SHALL BE CONSTRUCTED OF POLYVINYL CHLORIDE PIPE, SDR 35 OR AS OTHERWISE INDICATED ON THE CONSTRUCTION DRAWINGS.
- 3. ALL SANITARY SEWER WORK SHALL CONFORM WITH LOCAL REGULATORY STANDARDS AND SPECIFICATIONS.
- 4. PRIOR TO COMMENCING WORK WHICH REQUIRES CONNECTING NEW WORK TO EXISTING LINES OR APPURTENANCES, THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING CONNECTION POINT AND NOTIFY OWNER'S ENGINEER OF ANY CONFLICTS OR DISCREPANCIES IN WRITING.
- 5. NEW MANHOLES SHALL BE CONSTRUCTED IN CONFORMANCE WITH LOCAL STANDARD DETAILS AND SPECIFICATIONS.
- 6. PROPOSED PROJECT SHALL BE ISOLATED FROM THE EXISTING SEWER SYSTEM TO AVOID INFLOW OF DIRT. THE PREFERRED METHOD IS A PNEUMATIC PLUG VALVE IN THE UPSTREAM LINE.
- 7. ALL SEWER SHALL BE CCTV INSPECTED AND APPROVED BY THE CITY PRIOR TO PAVING.

### FIRE PROTECTION NOTES:

- 1. THE SITE CONSTRUCTION WORK BEING CONSTRUCTED ON THE PROPERTY WILL COMPLY WITH THE 6TH EDITION OF THE FLORIDA FIRE PREVENTION CODES.
- 2. THE ROAD SHALL REMAIN CLEAR OF VEHICULAR OBSTRUCTIONS TO ALLOW ACCESS OF FIRE DEPARTMENT UNITS WHILE THE BUILDINGS ARE BEING CONSTRUCTED. (FFPC 1, 16.1.4, 2014 EDITION)
- 3. FIRE APPARATUS ACCESS WILL BE PROVIDED FROM THE PARKING AREA AND ALONG GROVE STREET. THE PROPOSED FENCE WILL HAVE PEDESTRIAN GATES FOR FIRE TO ACCESS

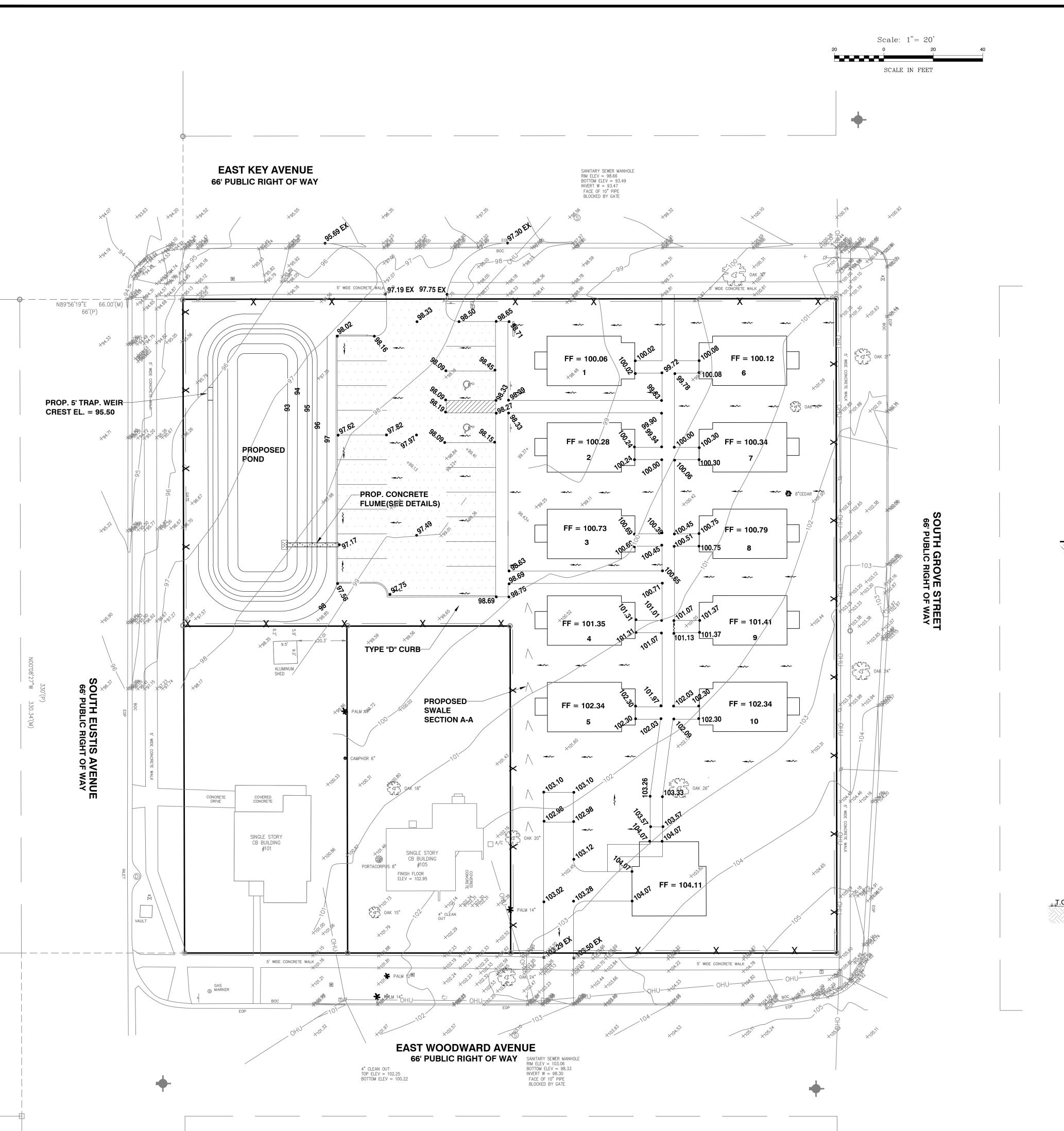


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CITY OF EUSTIS FRANSITION HOME UTILITY



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### **GENERAL NOTES**

1. ALL CONSTRUCTION SHALL CONFORM TO FDOT AND CITY OF EUSTIS STANDARDS.

2. INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN OBTAINED FROM RESPECTIVE UTILITY OWNER USING THE LATEST INFORMATION AVAILABLE. HOWEVER, THESE LOCATIONS, AS SHOWN ON THE PLANS, ARE NOT CONSIDERED TO BE ALL INCLUSIVE. THE ENGINEER HAS ATTEMPTED TO SHOW AS MUCH AS POSSIBLE ALL MAIN ELECTRICAL AND TELEPHONE UNDERGROUND CABLES AND DUCTS. THE ENGINEER HAS NOT SHOWN ELECTRICAL AND TELEPHONE SERVICE CONNECTIONS WHICH MAY EXIST WITHIN THE PRIVATE RIGHTS-OF-WAY WITHIN THIS PROJECT. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL UNDERGROUND FACILITIES WITH A FIELD REPRESENTATIVE OF EACH RESPECTIVE UTILITY.

3. THE CONTRACTOR SHALL INSURE ALL NECESSARY PERMITS ARE IN HAND BEFORE COMMENCEMENT OF CONSTRUCTION.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SATISFYING ALL REQUIREMENTS OF REGULATORY AGENCY PERMITS WITH REGARDS TO CONSTRUCTION ACTIVITIES AND CONDITIONS STATED THEREIN. ALL WORK WITHIN THE LAKE COUNTY RIGHT-OF-WAYS SHALL CONFORM WITH ALL REQUIREMENTS AND SPECIAL CONDITIONS OF THE APPROVED LAKE COUNTY PERMITS.

5.THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AT ALL INTERSECTIONS OF PROPOSED WORK AND EXISTING UTILITIES. THE EXPLORATORY EXCAVATIONS SHALL BE MADE 48 HOURS OR 1,000 FEET IN ADVANCE OF THE WORK, WHICHEVER IS GREATER. IF THERE IS A POTENTIAL CONFLICT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. INFORMATION ON THE OBSTRUCTION TO BE FURNISHED BY THE CONTRACTOR SHALL INCLUDE: LOCATION, ELEVATION, UTILITY TYPE, MATERIAL AND SIZE.

6. ALL AREAS WHERE LANDSCAPING, SOD, OR IRRIGATION HAS BEEN REMOVED OR DISTURBED BY CONTRACTOR'S OPERATIONS SHALL BE RE-SODDED, LANDSCAPED, OR REPAIRED WITH LIKE KIND. ALL EXISTING PROPERTY, FENCING, DRIVEWAYS, PIPING, SIDEWALKS, SIGNS AND OTHER ITEMS SHALL BE

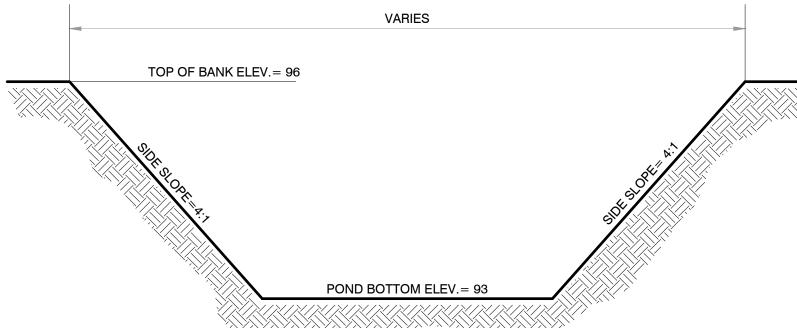
7. RESTORED TO ORIGINAL LINE AND GRADE UNLESS APPROVED BY THE ENGINEER. ACCESS TO ADJOINING PROPERTY ALONG THE PROPOSED ROUTE SHALL BE MAINTAINED AT ALL TIMES.

8. THE SHOWN LOCATIONS OF RIGHTS-OF-WAY AND UTILITIES ARE APPROXIMATE. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO EXACTLY LOCATE ALL RIGHTS-OF-WAY AND UTILITY LINES IN THE CONSTRUCTION AREA PRIOR TO EXCAVATION. ANY DAMAGE TO ANY EXISTING UTILITY, STRUCTURE OR SERVICE SHALL BE REPAIRED, AT THE CONTRACTOR'S EXPENSE, IN A MANNER APPROVED BY THE RESPECTIVE UTILITY OWNER.

9. ALL ELEVATIONS SHOWN ON THESE DRAWINGS REFER TO NATIONAL GEODETIC VERTICAL DATUM (NGVD): 88 DATUM.

10. THE CONTRACTOR SHALL REPLACE ALL PAVING, SODDING, STABILIZED EARTH, LANDSCAPING, DRIVEWAYS, SIDEWALKS, IRRIGATION SYSTEMS, UNDERGROUND PIPING, ETC., DISTURBED OR DAMAGED BY THE CONSTRUCTION. THE CONTRACTOR SHALL REPLACE WITH EQUAL MATERIAL OR AS DIRECTED BY THE ENGINEER.

11. UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS, ALL ITEMS NOTED TO BE REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER. ALL ITEMS REMOVED SHALL BE STORED BY THE CONTRACTOR ON-SITE AS DIRECTED BY THE OWNER OR ENGINEER.



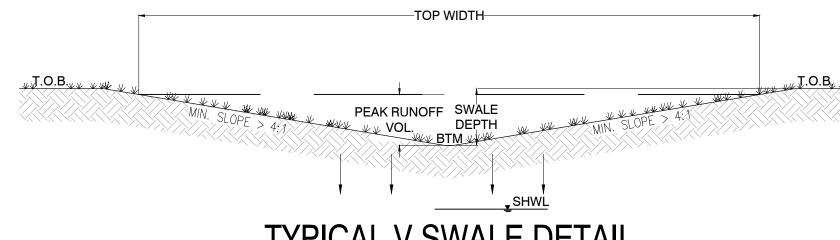
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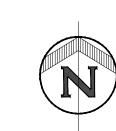
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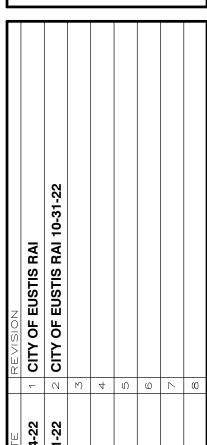
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3. SEED AND MUCH BOTTOM



TYPICAL V SWALE DETAIL SECTION A-A N.T.S.



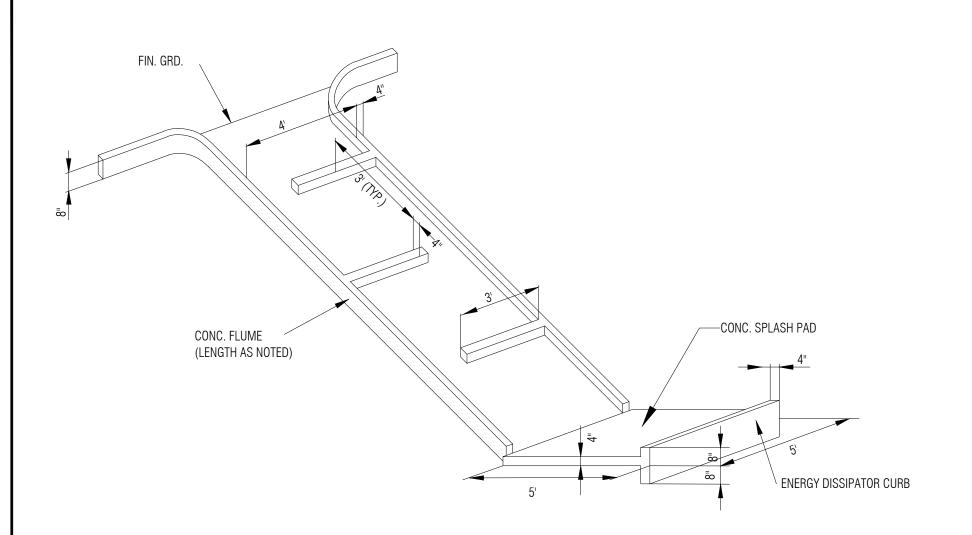


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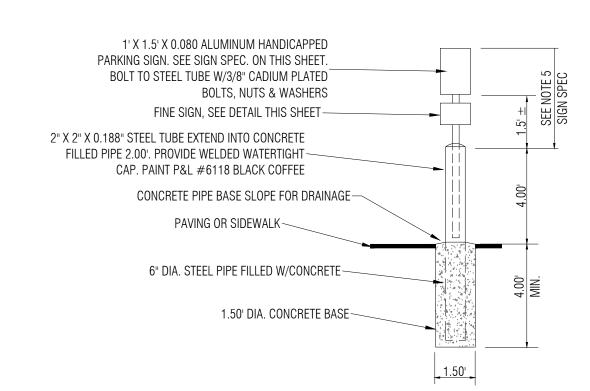


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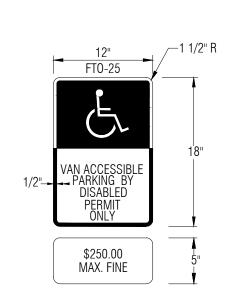
CHARLES C. HIOTT, P.E.



### TYPICAL CONC. FLUME DETAIL



HANDICAP PARKING SIGN N.T.S.



### HANDICAP SIGN SPEC

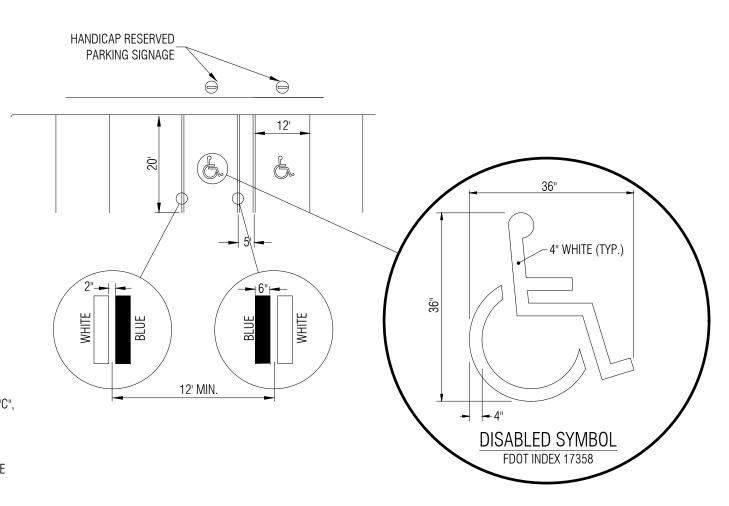
1. ALL LETTERS SHALL BE BLACK AND 1" IN HEIGHT. LETTERS ARE TO BE SERIES "B" OR "C", PER MUTCD LATEST EDITION.

2. TOP PORTION OF SIGN SHALL HAVE REFLECTORIZED (ENGINEERING GRADE) BLUE BACKGROUND WITH WHITE REFLECTORIZED LEGEND AND BORDER.

3. BOTTOM PORTION OF SIGN SHALL HAVE A REFLECTORIZED (ENGINEERING GRADE) WHITE BACKGROUND WITH BLACK BORDER.

4. ONE SIGN REQUIRED FOR EACH PARKING SPACE.

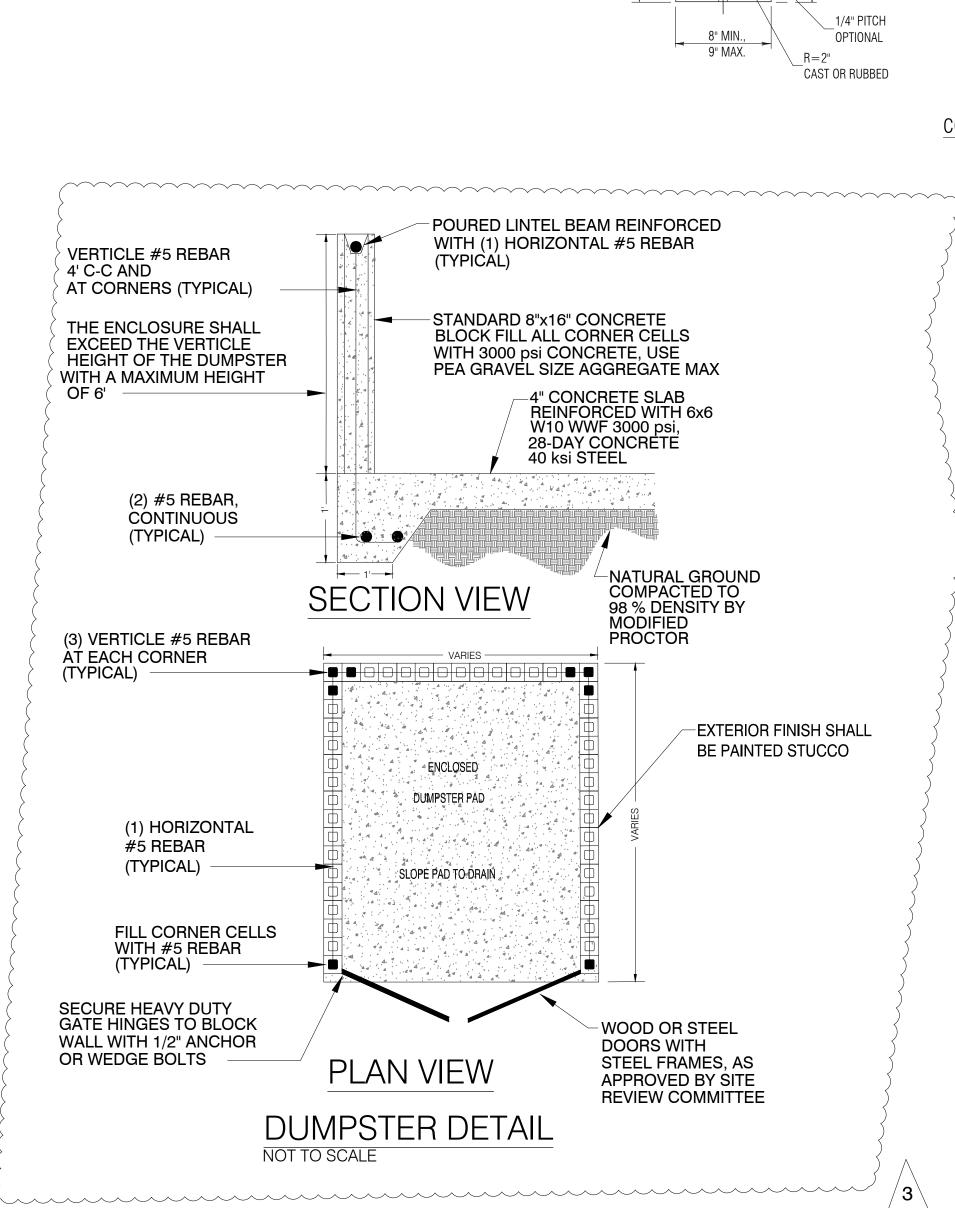
5. HEIGHT OF SIGN SHALL BE IN ACCORDANCE WITH SECTION 24-23 OF THE MANUAL OF UNIFORMED TRAFFIC CONTROL DEVICES (MUTCD) LATEST EDITION.



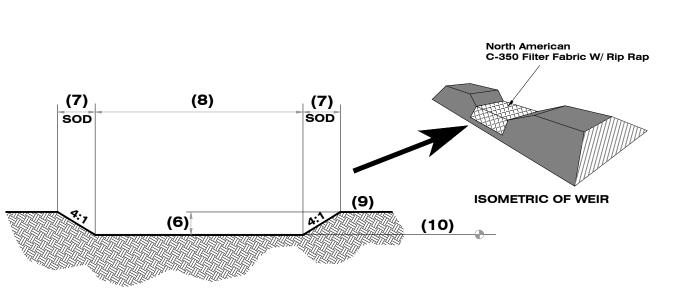
1. EACH SUCH PARKING SPACE SHALL BE CONSPICUOUSLY OUTLINED IN BLUE PAINT AND SHALL BE POSTED AND MAINTAINED WITH A PERMANENT, ABOVE GRADE SIGN BEARING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY, OR THE CAPTION "PARKING BY DISABLED PERMIT ONLY." OR BEARING BOTH SUCH SYMBOL AND CAPTION. SUCH SIGNS SHALL NOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE. ALL HANDICAPPED PARKING SPACES MUST BE SIGNED AND MARKED IN ACCORDANCE WITH THE STANDARDS ADOPTED BY THE FLORIDA DEPARTMENT OF

2. FDOT RECOMMENDS MEASURING PARKING SPACE WIDTH FROM CENTER TO CENTER BETWEEN BLUE AND WHITE STRIPES.

HANDICAP PARKING STRIPING FOR SINGLE SPACES N.T.S.

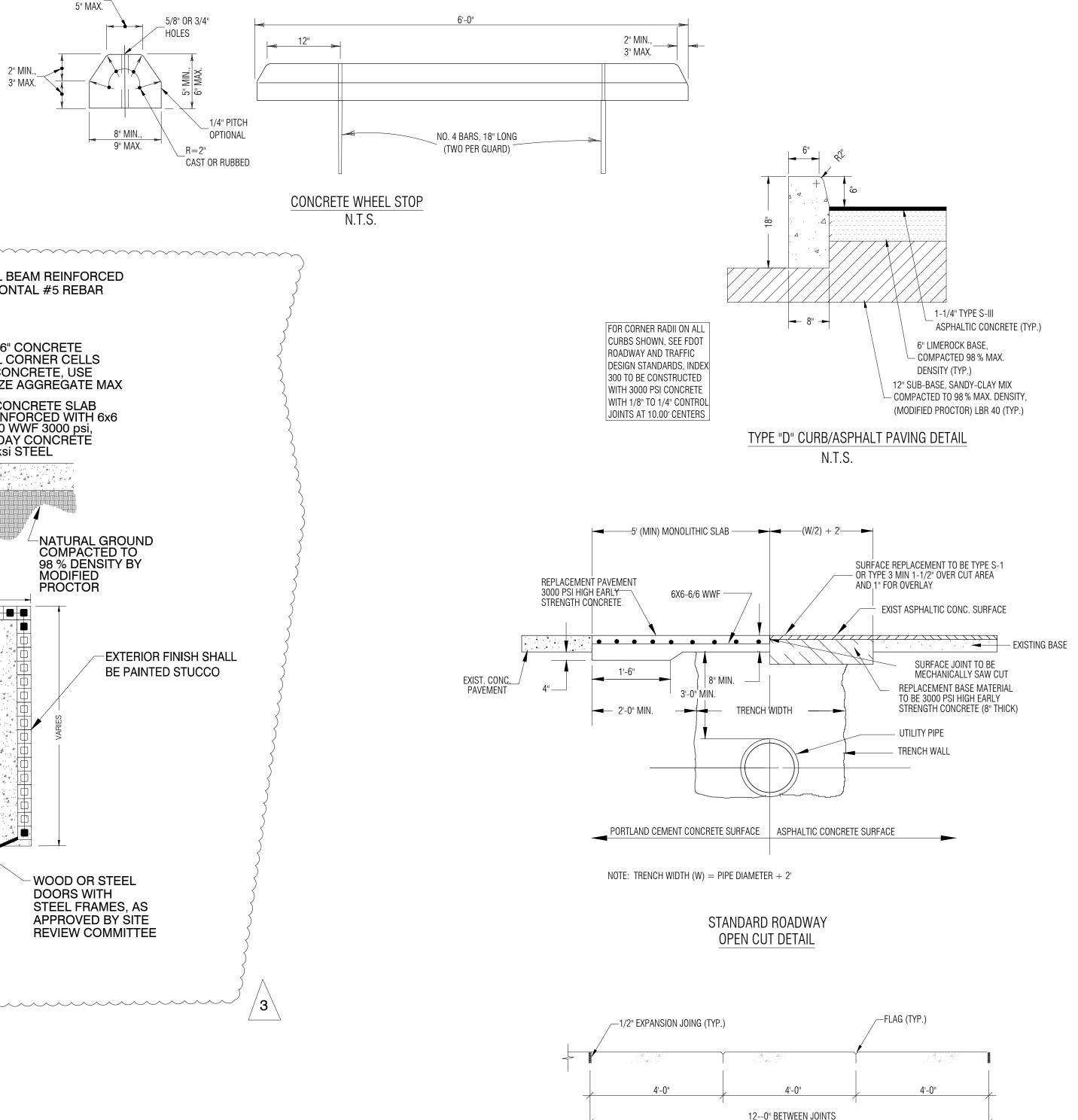


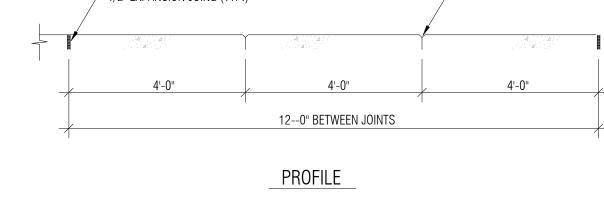
4" MIN.,

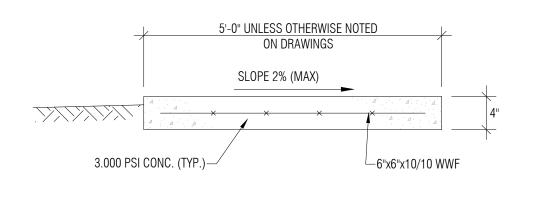


### TYPICAL WEIR SECTION (FOR WET RETENTION)

|            | WEIR SECTION DATA |          |          |            |       |  |  |
|------------|-------------------|----------|----------|------------|-------|--|--|
| WRA NUMBER | (6) (ft)          | (7) (ft) | (8) (ft) | (9) (elev) | (10)  |  |  |
| D.R.A. 1   | 0.50              | 2.00     | 5.00     | 96.00      | 94.50 |  |  |
|            |                   |          |          |            |       |  |  |

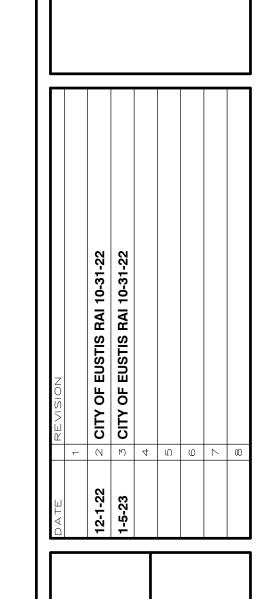






SECTION

CONCRETE WALKWAY DETAIL N.T.S.

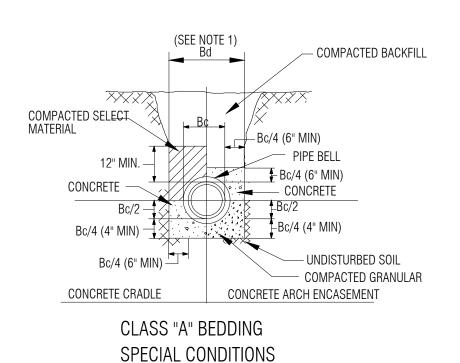


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CHARLES C. HIOTT, P.E. PROFESSIONAL ENGINEER NO. 54813

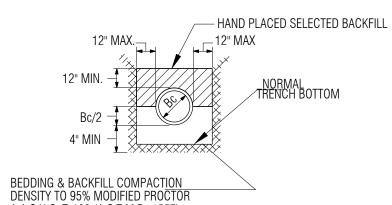


### BEDDING & TRENCHING NOTES:

- Bd = TRENCH WIDTH AT TOP OF PIPE
- MAX. Bd = Bc + 24"
  MIN. Bd = MAX. DIM. OF BELL + 8" (UNSHEETED TRENCH)
  MAX. DIM. OF BELL + 12" (UNSHEETED TRENCH) 2. DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL BE AS REQ'D TO REACH
- SUITABLE FOUNDATION; FOR NON-CUSHIONING MATERIAL, DEPTH SHALL BE 6" BELOW BOTTOM OF ÚTILITY. 3. SHEETING SHALL BE DRIVEN BELOW THE UTILITY INVERT IF REQUIRED FOR LATERAL SUPPORT OR UNSUITABLE MATERIAL REMOVAL. WHERE DRIVEN BELOW PIPE INVERT, SHEETING SHALL BE CUT OFF A MIN. OF
- 12" ABOVE TOP OF PIPE, OR HIGHER AS AUTHORIZED BY THE ENGINEER. AND LEFT IN PLACE. IN NO CASE SHALL SHEETING LEFT IN PLACE EXTEND HIGHER THAN 30" BELOW SURFACE GRADE UNLESS SPECIFICALLY APPROVED. BRACING SHALL BE PROVIDED AS REQUIRED.
- NOTE: NORMALLY CLEAN BACKFILL SHALL BE USED AS A 4" MIN. BEDDING FOR PIPE HOWEVER, WHERE UNSTABLE TRENCH BOTTOM CONDITIONS ARE ENCOUNTERED, AS DETERMINED BY THE INSPECTING ENGINEER A SUFFICIENT DEPTH OF THE UNSTABLE SOIL SHALL BE REMOVED AND REPLACED WITH 1/4" 3/4" CRUSHED STONE, GRAVEL (U.S.C.S. SOIL CLASSIFICATION CLASS 1), OR CRUSHED SHELL TO THE SPRING LINE OF THE PIPE TO STABILIZE THE PIPE BEDDING. WHEN DRY UNSUITABLE MATERIAL (I.E. HARDPAN) IS ENCOUNTERED AT THE TRENCH BOTTOM, GRADED SANDS MAY BE USED FOR PIPE BEDDING.

# COMPACTED BACKFILL - COMPACTED SELECT MATERIAL VERTICAL TRENCH \_\_\_\_ VALLS UNDISTURBED SOIL NORMAL TRENCH GRANULAR BEDDING

CLASS "B" BEDDING NORMAL CONDITIONS



A.A.S.H.O. T-180 (A.S.T.M.D.-1557) BEDDING AND BACKFILL PLACED IN LIFTS NOT EXCEEDING 6" IN THICKNESS (FOR P.V.C. GRAVITY SEWER PIPE ÀLL BEDDING IN COMPLIANCE W/ A.S.T.M. D2321-74) STANDARD BEDDING

NOTE: ALL MAIN LINE SERVICE CONNECTION TAPS (1" & 1 1/2" INDIVIDUAL OR BRANCHED) SHALL BE MADE WITH A DOUBLE STRAP SERVICE SADDLE. TYPICAL MAIN LINE, SERVICE LINE AND METER CONNECTION

POLYETHYLENE SERVICE TUBING

SERVICE LINE TAP TO BE LOCATED IN FIELD AT MAX OF 45° FROM VERTICAL

(TYPICAL ALL TAPS)

CORPORATION COCK —

MAIN LINE

SERVICE LINE PAY ITEM—

(ON EACH IDLING LINE FOR FUTURE SERVICE AND INSTALLATION OF THE WATER METER, A FIROMATIC LOCKSEAL SHALL BE INSTALLED INTO THE CURB STOP)

FINISH GRADE

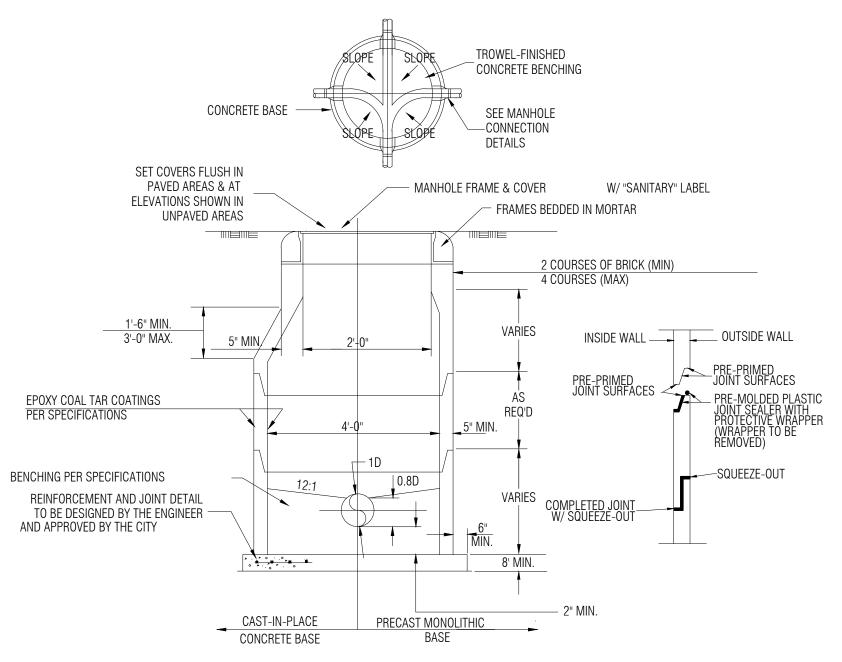
FORD OR EQUAL EXPANSION
CONNECTION FURNISHED
W/ YOKE

- WATER METER

METER BOX

(STANDARD)

### TRENCH BEDDING

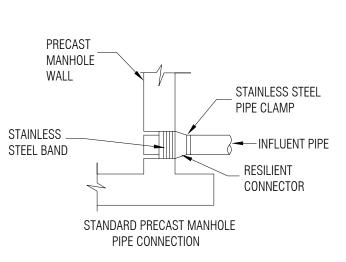


NOTES:

1. DROP CONNECTIONS ARE REQUIRED WHENEVER INVERT OF INFLUENT SEWER IS 24" OR MORE ABOVE THE INVERT OF THE MANHOLE. SEE MANHOLE CONNECTION DETAILS.

2. APPROVED CONCENTRIC CONE DESIGN MAY BE USED AS AN ALTERNATE.

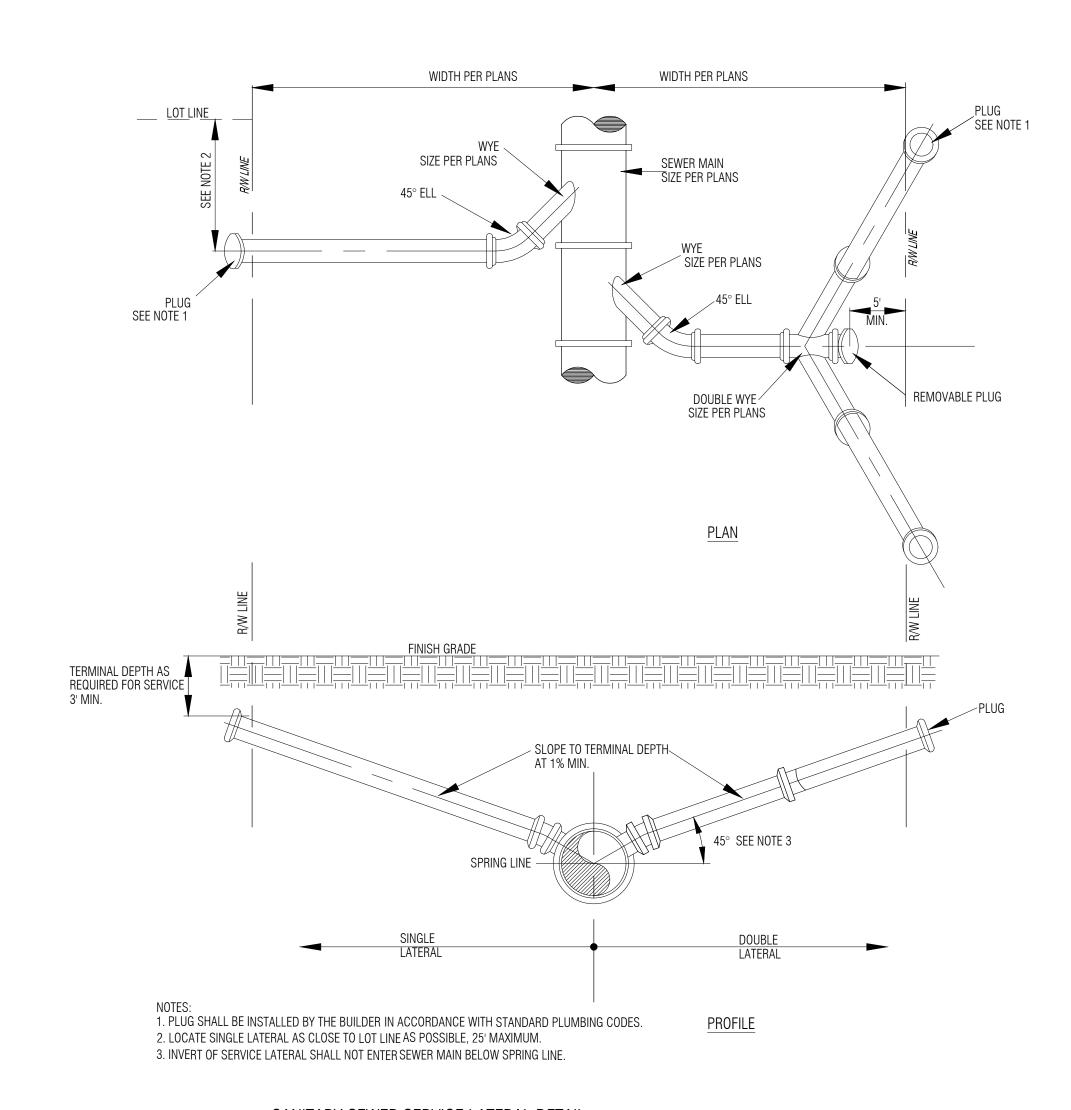
PRECAST CONCRETE MANHOLE PLAN & SECTION



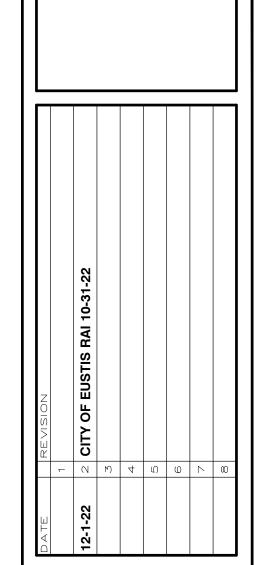
DROP PIPE AND FITTINGS SHALL BE OF EQUAL SIZE AND MATERIAL AS THE INFLUENT SEWER.
 THE CITY MAY APPROVE ALTERNATE WATER TIGHT CONNECTION DETAILS FOR CONNECTION OF 24"

3. AN OUTSIDE DROP CONNECTION SHALL BE REQUIRED FOR ALL INFLUENT WHICH HAVE AN INVERT 2'-0" OR MORE ABOVE THE MANHOLE INVERT.

### MANHOLE CONNECTION DETAILS



SANITARY SEWER SERVICE LATERAL DETAIL



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CHARLES C. HIOTT, P.E.