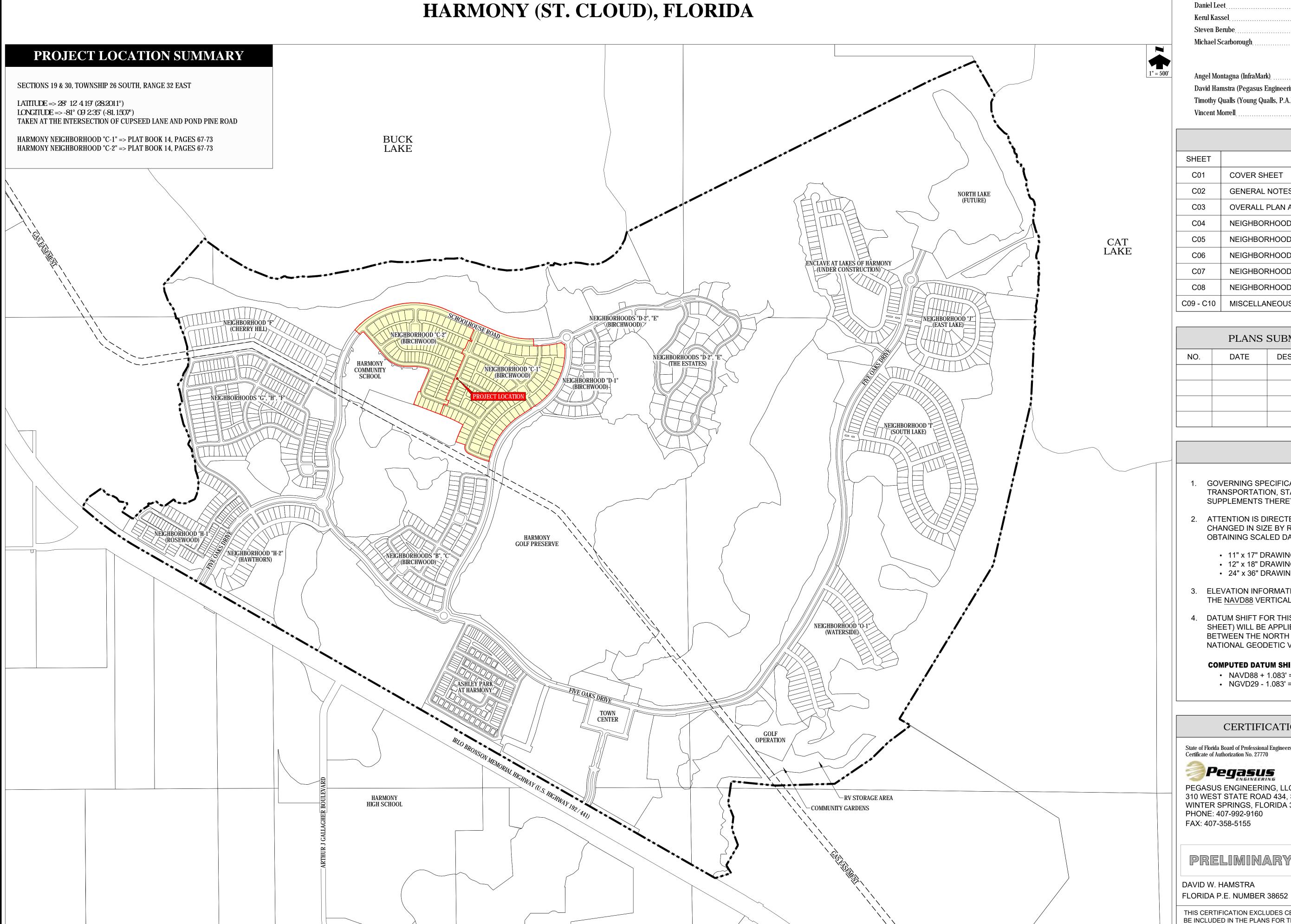
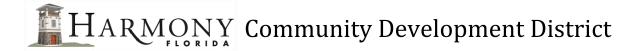
# CONSTRUCTION PLANS FOR HARMONY NEIGHBORHOODS "C-1" AND "C-2" ROADWAY REHABILITATION





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PLANS SUBMITTAL AND REVISION SUMMARY				
NO.	DATE	DESCRIPTION		

# NOTES

- GOVERNING SPECIFICATIONS: STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS (LATEST EDITION) AND SUPPLEMENTS THERETO IF NOTED IN THE BID DOCUMENTS FOR THIS PROJECT.
- 2. ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN CHANGED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.
  - 11" x 17" DRAWINGS ~ NOT TO SCALE
  - 12" x 18" DRAWINGS ~ HALF SIZE • 24" x 36" DRAWINGS ~ TO SCALE
- 3. ELEVATION INFORMATION SHOWN WITHIN THESE PLANS IS REFERENCED TO THE NAVD88 VERTICAL DATUM.
- 4. DATUM SHIFT FOR THIS PROJECT (SEE PROJECT LOCATION SUMMARY THIS SHEET) WILL BE APPLIED AS A CONSTANT VALUE FOR CONVERTING ELEVATIONS BETWEEN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).

# **COMPUTED DATUM SHIFTS**

- NAVD88 + 1.083' = NGVD29
- NGVD29 1.083' = NAVD88

# CERTIFICATION BY THE ENGINEER OF RECORD

State of Florida Board of Professional Engineers Certificate of Authorization No. 27770



PEGASUS ENGINEERING, LLC 310 WEST STATE ROAD 434, SUITE 309 WINTER SPRINGS, FLORIDA 32708 PHONE: 407-992-9160 FAX: 407-358-5155





DAVID W. HAMSTRA

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY DAVID W. HAMSTRA, P.E. ON JANUARY \_\_\_, 2022 USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

THIS CERTIFICATION EXCLUDES CERTAIN INFORMATION THAT WAS PREPARED "BY OTHERS" AND MAY BE INCLUDED IN THE PLANS FOR THE CONTRACTOR'S CONVENIENCE, INCLUDING BUT NOT LIMITED TO THE TOPOGRAPHIC SURVEYS, MANUFACTURER DETAILS, FDOT DETAILS OBTAINED FROM THE DESIGN STANDARDS, AND STANDARD DETAILS PROVIDED BY THE CITY OF ST. CLOUD OR OSCEOLA COUNTY.

HARMONY COMMUNITY DEVELOPMENT DISTRICT DISTRICT MANAGER ANGEL MONTAGNA (INFRAMARK) 313 CAMPUS STREET | CELEBRATION, FL 34747 PHONE: 813-576-9748

#### **REGULATORY AND PERMITTING**

- RP-1. THE CONTRACTOR SHALL ENSURE THAT ALL REQUIRED PERMITS ARE IN HAND BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL SATISFY AND ADHERE TO ALL APPLICABLE REQUIREMENTS OR SPECIAL CONDITIONS STATED WITHIN SAID PERMITS REGARDING THE WORK AND MAINTENANCE OF IMPROVEMENTS PRIOR TO ACCEPTANCE BY THE OWNER.
- RP-2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL INSPECTION CRITERIA AND SCHEDULES, AND FOR SIGNING FOR SAID INSPECTIONS.
- RP-3. THE CONTRACTOR SHALL CONFORM AND ADHERE TO THE POLICIES ESTABLISHED BY THE OSCEOLA COUNTY PUBLIC WORKS DEPARTMENT FOR THE PRESERVATION OF ALL PUBLIC AND PRIVATE PROPERTY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE AND INJURY TO PROPERTY OF ANY CHARACTER, DURING THE PROSECUTION OF THE WORK, RESULTING FROM ANY ACT, OMISSION, NEGLIGENCE, OR MISCONDUCT IN HIS MANNER OR METHOD OF EXECUTING THE WORK, OR AT ANY TIME DUE TO DEFECTIVE WORK OR MATERIALS.
- RP-4. THE CONTRACTOR SHALL COMPLY WITH ALL LEGAL LOAD RESTRICTIONS WHEN HAULING MATERIALS OR EQUIPMENT BEYOND THE LIMITS OF THE WORK. A SPECIAL PERMIT WILL NOT RELIEVE THE CONTRACTOR FROM ANY LIABILITY FOR DAMAGE OR INJURY WHICH MAY RESULT FROM MOVING EQUIPMENT OR MATERIAL.
- RP-5. THE CONTRACTOR MUST OBTAIN A CONSUMPTIVE USE PERMIT (CUP) IF DEWATERING IS NECESSARY.
- RP-6. THE CONTRACTOR SHALL OBTAIN A RIGHT-OF-WAY UTILIZATION PERMIT AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION WHERE THE WORK OCCURS.
- RP-7. BEFORE COMMENCING WORK ON ANY PRIVATE LANDS, THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM THE LAND OWNER TO OCCUPY THE PROPERTY FOR THE SOLE PURPOSE OF PROSECUTING THE WORK. THE CONTRACTOR SHALL USE ALL DUE CAUTION AND CARE TO PROTECT THE PROPERTY AT ALL TIMES AND IN ALL MANNER FROM HIS WORK AND TO LIMIT HIS ACTIVITIES AS NECESSARY TO PERFORM THE WORK AS DESCRIBED BY THE CONTRACT DOCUMENTS. IF THE WORK IS INCOMPLETE AT THE END OF THE WORK DAY, HE SHALL SECURE THE WORK AREA AND MATERIALS TO PROVIDE FOR THE SAFETY OF ALL PERSONS, KNOWN OR UNKNOWN. SAFETY SHALL BE A PRIME CONSIDERATION AND THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- RP-8. ABSOLUTELY NO WORK WILL BE ALLOWED WITHIN ANY CONSERVATION AREA, BUFFER AREA, MITIGATION AREA, OR DESIGNATED WETLAND AREA UNLESS SPECIFICALLY DESCRIBED BY THE PLANS AND GRANTED BY REASON OF PERMIT FROM THE GOVERNMENTAL ENTITY HAVING JURISDICTION OVER SAID AREA.
- RP-9. STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

IF THE TOTAL AREA TO BE CLEARED IS EQUAL TO, OR EXCEEDS ONE (1) ACRE, THEN THE CONTRACTOR WILL BE RESPONSIBLE FOR PREPARING A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH EPA'S NPDES REGULATIONS. THE CONTRACTOR WILL BE RESPONSIBLE FOR SUBMITTING A NOTICE OF INTENT (NOI) AND APPLICABLE FEES TO THE FDEP NO LESS THAN FORTY-EIGHT 48) HOURS PRIOR TO COMMENCING CONSTRUCTION. THE COST FOR THIS WILL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "MOBILIZATION/DEMOBILIZATION, LS."

# **GEOTECHNICAL AND TESTING**

- GT-1. A GEOTECHNICAL ENGINEERING REPORT HAS BEEN PREPARED AND IS AVAILABLE FOR THE CONTRACTOR'S INDEPENDENT REVIEW. THIS REPORT CONTAINS SPECIFIC RECOMMENDATIONS REGARDING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- GT-2. THE CONTRACTOR SHALL ENSURE THAT PROPER SOIL DENSITIES ARE ACHIEVED FOR THE PLACEMENT OF ALL STRUCTURES, OR COMPACTED EARTH. VERIFICATION TESTING IS AT THE OWNER'S OPTION. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S CONSULTANT FOR SCHEDULING ALL TESTING PRIOR TO CONSTRUCTION WORK. THE CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE FOR TESTING WORK IN ADVANCE OF CONSTRUCTION. THE CONTRACTOR SHALL ADHERE TO THE "ASSESSMENT AND RECOMMENDATIONS" CONTAINED WITHIN THE GEOTECHNICAL REPORT.
- GT-3. A GEOTECHNICAL ENGINEER SHALL BE RETAINED BY THE CONTRACTOR FOR THE PURPOSE OF DETERMINING THE SUITABILITY OF MATERIAL ACQUIRED FROM EXCAVATIONS OR BORROW OPERATIONS; TO DETERMINE FILL SUITABILITY AND CONTROL FOR EMBANKMENT OPERATIONS, OR THE STOCKPILING OF SURPLUS SOIL. THE CONTRACTOR WILL COOPERATE WITH THE GEOTECHNICAL ENGINEER AS REQUIRED TO DO THE WORK.
- GT-4. SUBSURFACE INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FOR USE IN-ESTABLISHING DESIGN CRITERIA FOR THE PROJECT. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED AND IS NOT TO BE CONSTRUED AS PART OF — THE PLANS GOVERNING CONSTRUCTION OF THE PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INQUIRE OF THE ENGINEER IF ADDITIONAL INFORMATION IS AVAILABLE, TO MAKE ARRANGEMENTS TO REVIEW SAME PRIOR TO BIDDING, AND TO MAKE HIS OWN DETERMINATION AS TO ALL SUBSURFACE CONDITIONS.

# MAINTENANCE OF TRAFFIC (MOT)

- MT-1. MAINTENANCE OF TRAFFIC: ACCESS FOR LOCAL TRAFFIC WITH DESTINATIONS WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED. IF ACCESS TO LOCAL TRAFFIC IS CHANGED DURING CONSTRUCTION, THEN THE CONTRACTOR SHALL NOTIFY THE OWNER A MINIMUM OF THREE (3) WORKING DAYS IN ADVANCE. IF ROAD CLOSURES ARE REQUIRED DURING CONSTRUCTION, THEN THE CONTRACTOR SHALL NOTIFY THE OWNER A MINIMUM OF FIVE (5) WORKING DAYS IN ADVANCE.
- MT-2. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN ALL BARRICADES, WARNING SIGNS, AND MARKINGS FOR HAZARDS AND THE CONTROL OF TRAFFIC, IN REASONABLE CONFORMITY WITH THE U.S. DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, OR AS DIRECTED BY THE OWNER, SUCH AS TO EFFECTIVELY PREVENT ACCIDENTS IN ALL PLACES WHERE THE WORK CAUSES OBSTRUCTION TO THE NORMAL TRAFFIC OR CONSTITUTES IN ANY WAY A HAZARD TO THE PUBLIC.
- MT-3. THE CONTRACTOR SHALL PROTECT ALL EXISTING TRAFFIC AND STREET SIGNS. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER OR THE ENGINEER WHEN TEMPORARY REMOVAL, RELOCATION, OR REPLACEMENT OF SUCH SIGNAGE IS REQUIRED DUE TO THE NATURE OF HIS WORK.

# **ADDITIONAL SURVEY REQUIREMENTS**

IN ADDITION TO THE REQUIREMENTS OF NOTE GS-1 (ON THIS SHEET), A PROFESSIONAL LAND SURVEYOR SHALL STAKE THE LOCATION OF ALL PROPOSED STRUCTURES FOR THE OWNER'S REVIEW AND ACCEPTANCE BEFORE COMMENCING CONSTRUCTION.

#### **GEOMETRY & SURVEY**

- GS-1. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE OWNER A SET OF FIELD NOTES VERIFYING THE BENCHMARK ELEVATIONS AND THE REFERENCE POINT TIES SHOWN ON THE PLAN AND PROFILE SHEETS, AND/OR SUBMIT A SET OF FIELD NOTES FOR ALL ADDITIONAL BENCHMARK AND REFERENCE POINT TIES PROPOSED TO BE USED IN CONSTRUCTING THE PROJECT WITH THEIR LOCATION, DESCRIPTION AND ELEVATION BASED ON THE APPLICABLE PROJECT DATUM. ALL SUBMITTALS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA.
- GS-2. PUBLIC LAND CORNERS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED OR DISTURBED, THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE PROJECT ENGINEER, WITHOUT DELAY, BY TELEPHONE. THE CONTRACTOR SHALL PROVIDE WRITTEN FOLLOW UP CONFIRMATION WITHIN FORTY-EIGHT (48) HOURS OF TELEPHONE NOTIFICATION.
- GS-3. ALL PERMANENT REFERENCE MONUMENTS (P.R.M.'s) SHOWN ON THE PLANS, OR FOUND. SHALL BE PRESERVED. THOSE FOUND IN AREAS WHERE PAVEMENT IS SCHEDULED FOR REMOVAL AND REPLACEMENT SHALL BE PROTECTED WITH A CAST IRON VALVE BOX.
- GS-4. ANY U.S.C. AND G.S. (UNITED STATES COAST AND GEODETIC SURVEY) MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND BOTH SHALL NOTIFY:
  - STATE GEODETIC ADVISOR, RONNIE TAYLOR SUITE 309 3900 COMMONWEALTH BOULEVARD TALLAHASSEE. FL (904) 488-2427
- GS-5. THE ENGINEER HAS UTILIZED TOPOGRAPHIC SURVEY INFORMATION WHICH HE HAS RELIED UPON IN THE PREPARATION OF THESE PLANS. THE CONTRACTOR IS ADVISED TO OBTAIN A SIGNED AND SEALED COPY OF THE TOPOGRAPHIC SURVEY BEFORE ESTABLISHING ANY LAYOUT CONTROL.
- GS-6. BENCHMARKS AND VERTICAL ELEVATIONS AREA BASED ON NAVD88 DATUM.
- GS-7. PROPOSED STATION OFFSETS ARE FROM THE CENTERLINE OF THE STRUCTURE TO THE PROJECT BASELINE, UNLESS NOTED OTHERWISE.

### UTILITIES

- UL-1. THE LOCATION OF ALL EXISTING UTILITY SERVICES, FACILITIES, AND STRUCTURAL FEATURES SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE OWNER AND HIS REPRESENTATIVE DO NOT GUARANTEE THE ACCURACY OR THE COMPLETENESS OF THE LOCATION INFORMATION PROVIDED. ANY INACCURACY OR OMISSION IN SUCH INFORMATION SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PROTECT SUCH EXISTING FEATURES FROM DAMAGE OR UNSCHEDULED INTERRUPTION OF SERVICES. SHOULD A DISCREPANCY ARISE BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS, WHICH WOULD APPRECIABLY AFFECT THE EXECUTION OF THESE PLANS, THE CONTRACTOR WILL HALT CONSTRUCTION AND NOTIFY THE OWNER IMMEDIATELY.
- UL-2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION, AND FOR NOTIFYING THE VARIOUS UTILITY COMPANIES TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATION, DISRUPTION OF SERVICE, OR CLARIFICATION OF UTILITY ACTIVITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING A UTILITY, WHETHER UNDERGROUND OR OVERHEAD, WHETHER SHOWN ON THESE PLANS OR FIELD LOCATED. UTILITIES WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED BY THE RESPECTIVE UTILITY COMPANY AND THE CONTRACTOR SHALL COOPERATE WITH THE UTILITY COMPANY DURING RELOCATION OPERATIONS. ANY DELAY OR INCONVENIENCE BY THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT.
- UL-3. THE CONTRACTOR SHALL LOCATE AND VERIFY THE DEPTHS AND LOCATIONS OF ALL EXISTING UTILITIES WITHIN THE LIMITS OF WORK, PRIOR TO ORDERING
- UL-4. PRIOR TO EXCAVATING IN THE VICINITY OF A GAS PIPELINE, THE CONTRACTOR SHALL NOTIFY THE GAS UTILITY OWNER IN ACCORDANCE WITH THE REQUIREMENTS OF FLORIDA STATUTES, PROTECTION OF UNDERGROUND PIPELINES, F.S. 553.851, CH. 77-143.
- UL-5. THE CONTRACTOR SHALL NOTIFY UTILITIES 72 HRS. PRIOR TO EXCAVATION, IN ACCORDANCE WITH THE FLORIDA UNDERGROUND FACILITIES DAMAGE PREVENTION SAFETY ACT, F.S. 556.101-111. THE CONTRACTOR SHALL USE THE SERVICES OF A ONE NUMBER IDENTIFICATION SYSTEM (O.N.I.S.) AND CALL FOR A UTILITY LOCATOR A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF WORK.



SUNSHINE 811 11 PLANTATION ROAD DEBARY, FL 32713 1-800-432-4770 WWW.SUNSHINE811.COM

UL-6. UTILITIES ENCOUNTERED:

**CHARTER COMMUNICATIONS** JOHN SMITH 407-532-8520

CENTURYLINK BILL McCLOUD 850-599-1444 THOMAS STURMER (ALTERNATE) 720-578-8090 TAC CENTER (EMERGENCY CONTACT)

SEWER, WATER TOHO WATER AUTHORITY WESTIN DOBBINS 407-944-5000

800-778-9140

FLORIDA GAS TRANSMISSION

ORLANDO UTILITIES COMMISSION

**ELECTRIC** 

JUAN DIAZ

407-434-4143

JEFF MANN (ALTERNATE)

JOSEPH E. SANCHEZ 407-838-7171 WYATT GUDGER (ALTERNATE) 407-212-9405 RUSSELL MACLEES (EMERGENCY CONTACT) 407-838-7504

#### **EROSION CONTROL AND POLLUTION ABATEMENT**

- EC-1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS CONTROLLING POLLUTION OF THE ENVIRONMENT. MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO CONTROL EROSION AND SEDIMENT RUNOFF FROM THE SITE DURING CONSTRUCTION.
- EC-2. THE CONTRACTOR SHALL EMPLOY SUCH EROSION CONTROL METHODS AS SPECIFIED BY THE FDOT'S ROADWAY AND TRAFFIC DESIGN STANDARDS AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2010 edition).
- EC-3. INSTALLATION OF SILT FENCES AND TURBIDITY BARRIERS SHALL BE IN ACCORDANCE WITH FDOT'S ROADWAY AND TRAFFIC DESIGN STANDARDS AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2010 edition).
- EC-4. SILT SCREENS AND TURBIDITY BARRIERS MUST BE INSTALLED AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATERBODY EXISTS DUE TO THE PROPOSED WORK. SILT SCREENS AND TURBIDITY BARRIERS MUST REMAIN IN PLACE AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND SOILS ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED. THEREAFTER, THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF THE BARRIERS.
- EC-5. IF NOT SPECIFIED ELSEWHERE; SEEDING, MULCHING, AND SODDING SHALL BE IN ACCORDANCE WITH FDOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, (latest edition).
- EC-6. ALL DISTURBED PERVIOUS AREAS SHALL BE SODDED, UNLESS OTHER SURFACE TREATMENT IS PRESCRIBED IN THE PLANS OR CONTRACT DOCUMENTS. ALL OTHER GRADED AREAS NOT SCHEDULED FOR SODDING OR PAVING SHALL BE SEEDED AND MULCHED. ALL DISTURBED AREAS OUTSIDE THE LIMITS OF GRADING SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THEIR ORIGINAL CONDITION.
- EC-7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL NEWLY PLANTED GRASSES AND VEGETATION UNTIL THE WORK HAS BEEN ACCEPTED BY
- EC-8. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF FIVE (5) FEET OF SOD AROUND ALL DITCH BOTTOM INLETS, MANHOLES AND ENDWALLS, IN AREAS NOT SCHEDULED FOR PAVEMENT OR CONCRETE.

#### **EARTHWORK**

- EW-1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF SLOPES AND EMBANKMENTS. THE CONTRACTOR SHALL REPAIR OR REMEDY DAMAGE TO SUCH IF CAUSED BY EROSION, CONTRACTOR ACTIVITIES OR LACK OF MAINTENANCE UNTIL THE PROJECT IS ACCEPTED BY THE OWNER.
- EW-2. THE CONTRACTOR SHALL EXAMINE THE SITE, REVIEW THE PLANS, AND INDEPENDENTLY DETERMINE THE VOLUME OF EXCAVATION, FILL AND/OR BACKFILL REQUIRED TO PERFORM THE WORK.
- EW-3. ALL FILL PLACED SHALL BE COMPACTED AND TESTED IN ACCORDANCE WITH THE FDOT STANDARD SPECIFICATIONS AND/OR THE SPECIAL PROVISIONS, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL BID ITEMS (SBIs) THAT WERE PREPARED SPECIFICALLY FOR THE PROJECT.
- EW-4. IN ALL AREAS WHICH REQUIRE FILL MATERIAL, THE CONTRACTOR WILL STRIP OR OTHERWISE REMOVE ALL VEGETATION AND OTHER DELETERIOUS MATERIAL BEFORE EMBANKMENT IS STARTED.
- EW-5. ALL SOIL STRIPPINGS, DELETERIOUS AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR UNLESS OTHERWISE DIRECTED BY THE OWNER OR SPECIFIED ELSEWHERE IN THE PLANS FOR SELECT DISPOSAL. IN NO CASE WILL BURIAL OF DISPOSABLE MATERIAL BE ALLOWED.

# STORM WATER (DRAINAGE)

- SW-1. ALL MANHOLES. INLETS. AND JUNCTION BOX STRUCTURES. SHALL BE PRECAST AND IN ACCORDANCE WITH ASTM C-478 UNLESS OTHERWISE SPECIFIED.
- SW-2. ALL MANHOLES, INLETS, AND JUNCTION BOX STRUCTURES SHALL HAVE TRAFFIC BEARING FRAMES AND COVERS, OR GRATES MEETING HS-20 LOADING REQUIREMENTS, UNLESS OTHERWISE SPECIFIED WITHIN THE PLANS.
- SW-3. ALL REINFORCED CONCRETE PIPE SHALL BE OF THE CLASS AND BEDDING SPECIFIED BY FDOT'S STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, (latest edition).
- SW-4. ALL PIPE JOINT CONNECTIONS SHALL BE WRAPPED WITH A FILTER FABRIC MATERIAL IN ACCORDANCE WITH FDOT'S STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION FDOT INDEX NO. 430-001).
- SW-5. ALL EXISTING AND INSTALLED STORM SEWER LINES AND INLETS SHALL BE CLEANED OF DEBRIS AND ERODED MATERIALS AT THE LAST STAGE OF CONSTRUCTION, THE COST OF WHICH SHALL BE INCIDENTAL TO THE PROJECT CONSTRUCTION. BEFORE COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ENGINEER ALL EXISTING DRAINAGE PROBLEMS OR DRAINAGE PROBLEMS THAT WILL BE CREATED BY THIS OPERATION.
- SW-6. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS BASED ON AVAILABLE RECORDS AND SURVEYS BUT IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO AND IS RESPONSIBLE FOR COORDINATING UTILITY RELOCATION WITH THE UTILITY OWNER. PRIOR TO ORDERING DRAINAGE STRUCTURES, THE CONTRACTOR SHALL DETERMINE IF DRAINAGE / UTILITY CONFLICTS EXIST. INFORMATION ON CONFLICTS IS TO BE SUBMITTED TO THE ENGINEER FOR RESOLUTION, AS SOON AS POSSIBLE AFTER
- SW-7. ALL DRAINAGE PIPES SHALL BE REINFORCED CONCRETE PIPE, CLASS III, UNLESS OTHERWISE SPECIFIED OR DIRECTED BY THE OWNER / ENGINEER.
- SW-8. ALL INLET/MANHOLE PIPE JOINTS SHALL BE FILLED WITH NON-SHRINK GROUT, COVERED WITH AN ASPHALTIC MASTIC COATING, AND WRAPPED WITH A FILTER FABRIC MATERIAL PER SECTION 430-7.3.1.7 OF FDOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (latest edition).
- CHANGES OF PIPE INVERTS NOT EXCEEDING PLUS OR MINUS ONE (1) FOOT WILL NOT BE CONSIDERED AS A BASIS FOR ADDITIONAL COMPENSATION FOR THE PERTINENT PIPE BID ITEM OR FOR MODIFICATION OF PRECAST STRUCTURES.
- SW-10. PIPE LENGTHS AND SLOPES DEPICTED ON THE PLAN AND PROFILE SHEETS ARE MEASURED FROM CENTERLINE OF STRUCTURE TO CENTERLINE OF STRUCTURE. MEASUREMENT OF DRAINAGE PIPE FOR PAYMENT SHALL BE DETERMINED FROM ACTUAL LENGTHS INSTALLED.

#### **MISCELLANEOUS NOTES**

- MN-1. ALL WORK AND MATERIALS FURNISHED SHALL BE IN REASONABLE CONFORMITY WITH THE LINES, GRADES, PROFILES, CROSS-SECTIONS, DIMENSIONS, MATERIAL REQUIREMENTS, AND TESTING REQUIREMENTS SPECIFIED IN THE CONTRACT, PLANS OR SPECIFICATIONS.
- MN-2. THE CONTRACTOR SHALL NOT EXCAVATE, REMOVE, OR OTHERWISE DISTURB ANY MATERIAL, STRUCTURE, OR PART OF A STRUCTURE WHICH IS LOCATED OUTSIDE THE LINES, GRADES, OR CONSTRUCTION LIMITS ESTABLISHED FOR THIS PROJECT, EXCEPT WHERE SUCH EXCAVATION, REMOVAL, OR DISTURBANCE IS PROVIDED FOR IN THE CONTRACT, PLANS, OR SPECIFICATIONS.
- MN-3. THE CONTRACTOR SHALL EXAMINE THE SITE FOR ALL CONDITIONS WHICH MAY AFFECT HIS WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISCOVERY, LOCATION AND IDENTIFICATION OF EXISTING UTILITIES, DRAINAGE SYSTEMS OR PHYSICAL STRUCTURES WITHIN THE LIMITS OF WORK. THE OWNER, HIS ENGINEER, AND ENGINEER'S CONSULTANT ASSUME NO RESPONSIBILITY FOR SUBSURFACE CONDITIONS OR FOR THE CONTRACTOR'S FAILURE TO IDENTIFY, LOCATE, AND PROTECT EXISTING FACILITIES ABOVE AND BELOW THE GROUND.
- MN-4. THE CONTRACTOR SHALL REMOVE ALL WASTE MATERIAL FROM THE SITE AND DISPOSE OF IT IN AN APPROVED MANNER. BURNING ON SITE WILL NOT BE ALLOWED.
- MN-5. THE CONTRACTOR SHALL CLEARLY MARK THE LIMITS OF WORK PRIOR TO CLEARING TO PROTECT ADJACENT AREAS FROM CONSTRUCTION ACTIVITIES.
- MN-6. AS-BUILT DRAWINGS SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE OWNER UPON PROJECT COMPLETION, PRIOR TO FINAL CERTIFICATION OF SUBSTANTIAL COMPLETION BY THE ENGINEER. THESE AS-BUILT DRAWINGS SHALL COMPLY WITH THE FLORIDA ADMINISTRATIVE CODE (F.A.C.) FOR SURVEYORS.
- MN-7. THE CONTRACTOR SHALL PROVIDE ALL SHEETING, SHORING, AND BRACING REQUIRED TO PROTECT ADJACENT STRUCTURES AND UTILITIES, OR TO MINIMIZE TRENCH WIDTH AS REQUIRED. SHEETING AND SHORING SHALL BE DESIGNED BY A STATE OF FLORIDA REGISTERED PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR.
- MN-8. ALL PERSONAL PROPERTY, EXCEPT MAILBOXES, WITHIN THE RIGHT-OF-WAY NOT RELOCATED BY THE PROPERTY OWNER(S) SHALL BE REMOVED BY THE CONTRACTOR AS NECESSARY TO CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE PLANS. MAIL BOXES SHALL BE RELOCATED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT'S STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION (INDEX NO. 110-200).
- MN-9. ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE CONDITION EXISTING PRIOR TO COMMENCING CONSTRUCTION, UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. COST TO BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION TO BE ALLOWED.

**UTILITY SEPARATION REQUIREMENTS** 

Other Pipe

Storm Sewer,

Stormwater Force Main.

**Vacuum Sanitary Sewer** 

**Gravity or Pressure** 

Reclaimed Water (4)

Sanitary Sewer Force Main,

**On-Site Sewage Treatment &** 

(2) Reclaimed water regulated under Part III of Chapter 62-610, F.A.C.

(4) Reclaimed water not regulated under Part III of Chapter 62-610, F.A.C.

Sanitary Sewer,

**Disposal System** 

Reclaimed Water (2)

### **MISCELLANEOUS NOTES (CONTINUED)**

- MN-10. APPARENT ERRORS, DISCREPANCIES OR OMISSIONS ON THE DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION BEFORE BIDDING. NO EXTRA PAYMENT WILL BE ALLOWED FOR ANY WORK REQUIRED DUE TO MISUNDERSTANDING OF JOB OR SITE CONDITIONS AFFECTING THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS OR SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL NOT TAKE ADVANTAGE OF ANY APPARENT ERROR OR OMISSION IN THE DRAWINGS OR SPECIFICATIONS, AND THE ENGINEER SHALL BE PERMITTED TO MAKE CORRECTIONS AND INTERPRETATIONS AS MAY BE DEEMED NECESSARY FOR FULFILLMENT OF THE INTENT OF THE CONTRACT DOCUMENTS. THE TENDERING OF A PROPOSAL WILL ACKNOWLEDGE ACCEPTANCE OF THESE CONDITIONS BY THE BIDDER.
- MN-11. ALL EXISTING TREES ARE TO REMAIN UNLESS OTHERWISE DIRECTED. IF REQUIRED TO BE REMOVED, THE ITEM SHALL BE PAID FOR UNDER "CLEARING AND GRUBBING." THE CONTRACTOR SHALL CLEARLY MARK THOSE TREES SCHEDULED FOR REMOVAL, PROTECTION, AND REPLACEMENT.
- MN-12. PAVEMENT AREAS SCHEDULED TO BE OPEN-CUT SHALL HAVE THE PAVEMENT CLEANLY SAW-CUT BEFORE REMOVAL OF MATERIAL. THE CONTRACTOR SHALL DIRECT HIS WORK TO PROTECT THE REMAINING PAVEMENT EDGES FROM BREAKING, CRACKING, OR RAVELING TO PROVIDE AN ACCEPTABLE EDGE TO RECEIVE THE CONCRETE REPAIR. SEE OPEN-CUT DETAILS IN THE PLANS.
- MN-13. THE CONTRACTOR SHALL PERFORM HIS WORK IN ACCORDANCE WITH REQUIREMENTS OF THE PLANS, PERMITS, AND STANDARDS ADOPTED BY OWNER. ENVIRONMENTAL CONTROLS SHALL BE USED AT LOCATIONS DESIGNATED IN THE PLANS, ESTABLISHED BY PERMIT CONDITIONS, REQUIRED STANDARD FDOT SPECIFICATIONS, AND / OR AS DESIGNATED BY THE ENGINEER.
- MN-14. ALL LANDSCAPING, PLANTS AND MULCH SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS.

#### **VIDEO INSPECTIONS**

Crossings (1)

12 inches is the minimum,

12 inches is preferred

12 inches preferred

6 inches minimum

12 inches is the minimum,

12 inches is preferred

except for gravity sewer, then

6 inches is the minimum and

except for storm sewer, then

6 inches is the minimum and

Water Main

Water Main

Water Main

LOCATION OF PUBLIC WATER SYSYEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.314

**Horizontal Separation** 

3 ft. minimum

Water Main

Water Main

10 ft. preferred

3 ft. minimum

Water Main

10 ft. minimum

Disclaimer - This document is provided for your convenience only. Please refer to F.A.C. Rule 62-555.314 for additional construction requirements.

10 ft. preferred

6 ft, minimum (3)

(1) Water main should cross above other pipe. When water main must be below other pipe, the minimum separation is 12 inches.

(3) 3 ft. for gravity sanitary sewer where the bottom of the water main is laid at least 6 inches above the top of the gravity sanitary sewer.

- VI-1. THE CONTRACTOR SHALL SUBMIT A VIDEO OF THE PROJECT AREAS WITHIN THE LIMITS OF CONSTRUCTION TO THE OWNER BEFORE CONSTRUCTION COMMENCEMENT.
- VI-2. ALL DRAINAGE STRUCTURES AND PIPES SHALL BE INSPECTED AND ACCEPTED BY THE OWNER AND/OR ENGINEER OF RECORD PRIOR TO FINAL PAVING OR SURFACE RESTORATION PRIOR TO FINAL ACCEPTANCE, STORM PIPES INSTALLED ON THE PROJECT ARE TO BE INSPECTED USING A CLOSED CIRCUIT TELEVISION (CCTV) CAMERA. THE CCTV INSPECTION SHALL BE COMPLETED BY A FIRM WITH PERSONNEL THAT SPECIALIZES IN THIS TYPE OF WORK, AND MUST BE APPROVED BY THE OWNER AND/OR ENGINEER OF RECORD BEFORE FINAL ACCEPTANCE OF THE PROJECT.

Joint Spacing @ Crossings

(Full Joint Centered)

Water Main

Water Main

Alternate 3 ft. minimum

Alternate 3 ft. minimum

Alternate 6 ft. minimum

Water Main

CONSTRUCTION PLANS FOR HARMONY NE 'C-1" AND "C-2" ROADWAY REHABILITATION

Pegasus

Winter Springs, Florida 32708 Office 407-992-9160 Fax. 407-358-5155

Pegasus Engineering, LLC

301 West SR 434, Suite 309

State of Florida Board of Professional Engineers Certificate of Authorization No. 27770

JOB No. MSC-22055 DESIGNED BY: DRAWN BY: CAD APPROVED BY: DWH JANUARY 2022

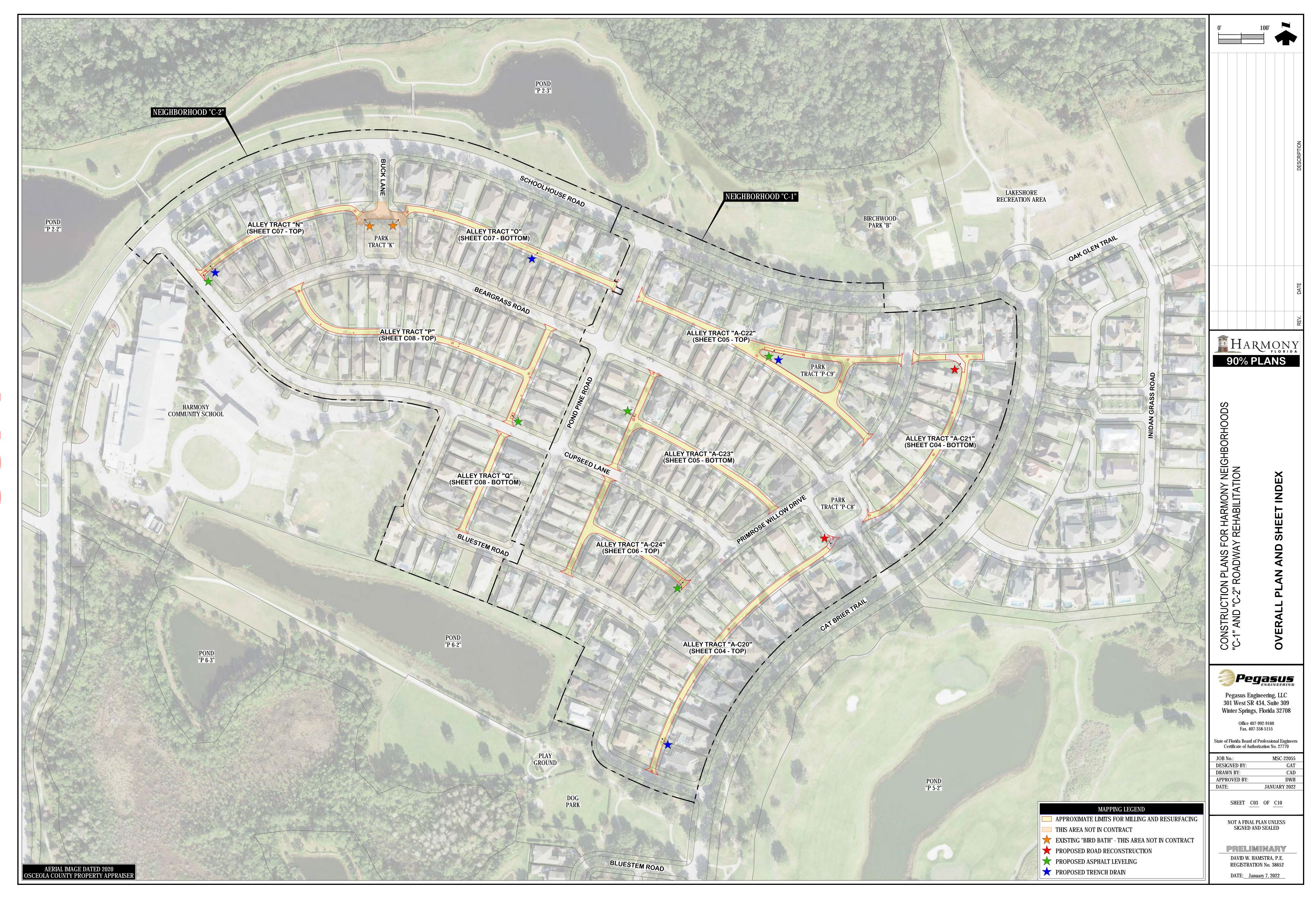
NOT A FINAL PLAN UNLESS

SHEET C02 OF C10

SIGNED AND SEALED PRELIMINARY

DAVID W. HAMSTRA, P.E. REGISTRATION No. 38652

DATE: January 7, 2022

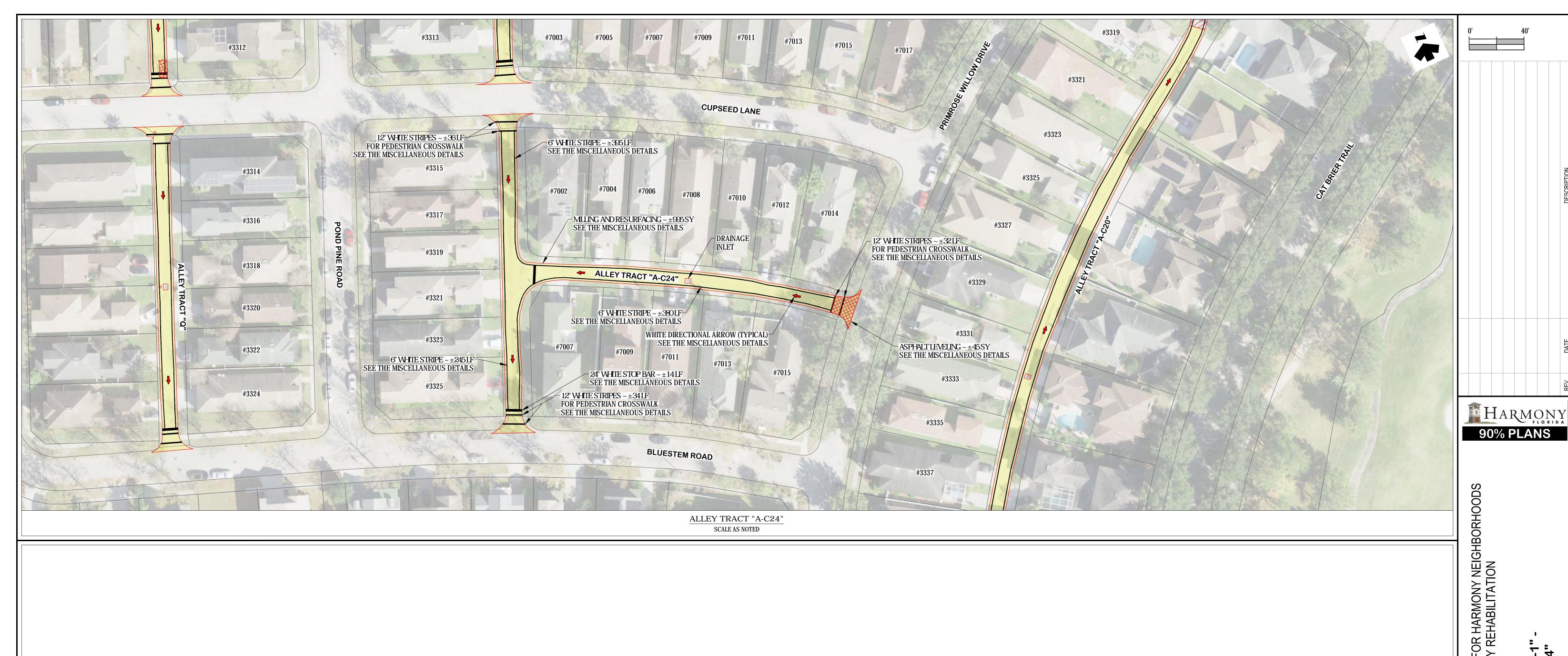




ALLEY TRACT "A-C23"
SCALE AS NOTED

SCHOOLHOUSE ROAD





CONSTRUCTION PLANS FOR HARMONY NE "C-1" AND "C-2" ROADWAY REHABILITATION

Pegasus

NEIGHBORHOOD "C-1" ALLEY TRACT "A-C24"

Pegasus Engineering, LLC 301 West SR 434, Suite 309 Winter Springs, Florida 32708

Office 407-992-9160 Fax. 407-358-5155

State of Florida Board of Professional Engineers Certificate of Authorization No. 27770 JOB No.: MSC-22055

DESIGNED BY: CAD DRAWN BY: APPROVED BY: JANUARY 2022

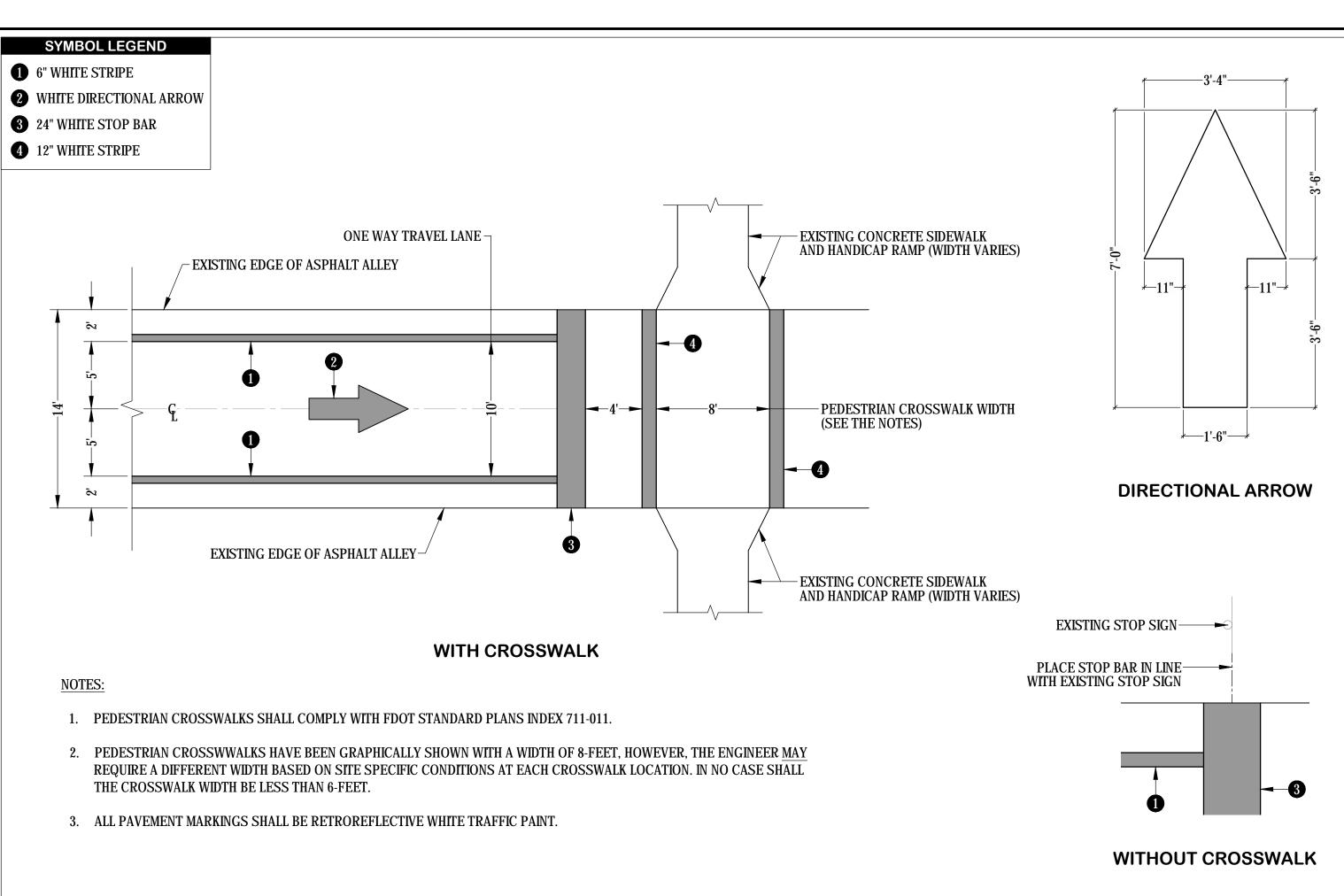
SHEET C06 OF C10

NOT A FINAL PLAN UNLESS SIGNED AND SEALED

PRELIMINARY DAVID W. HAMSTRA, P.E. REGISTRATION No. 38652 DATE: January 7, 2022

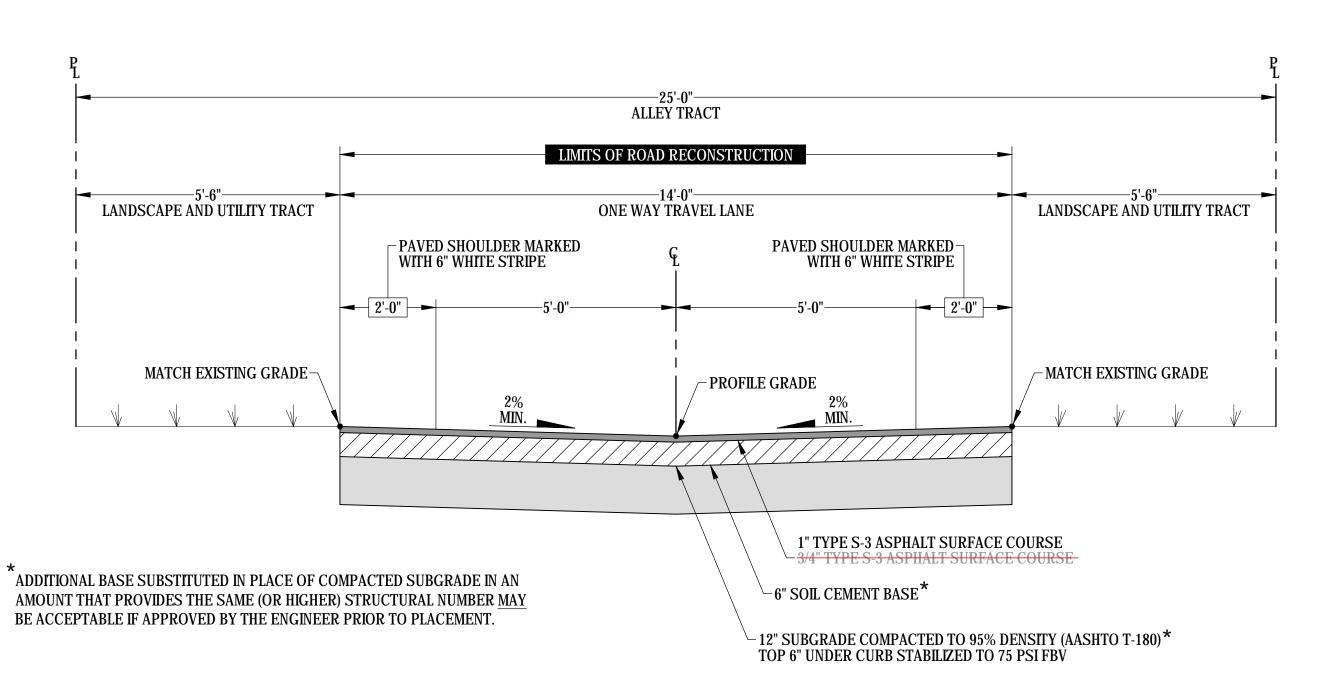






#### NEIGHBORHOODS "C-1" AND "C-2"

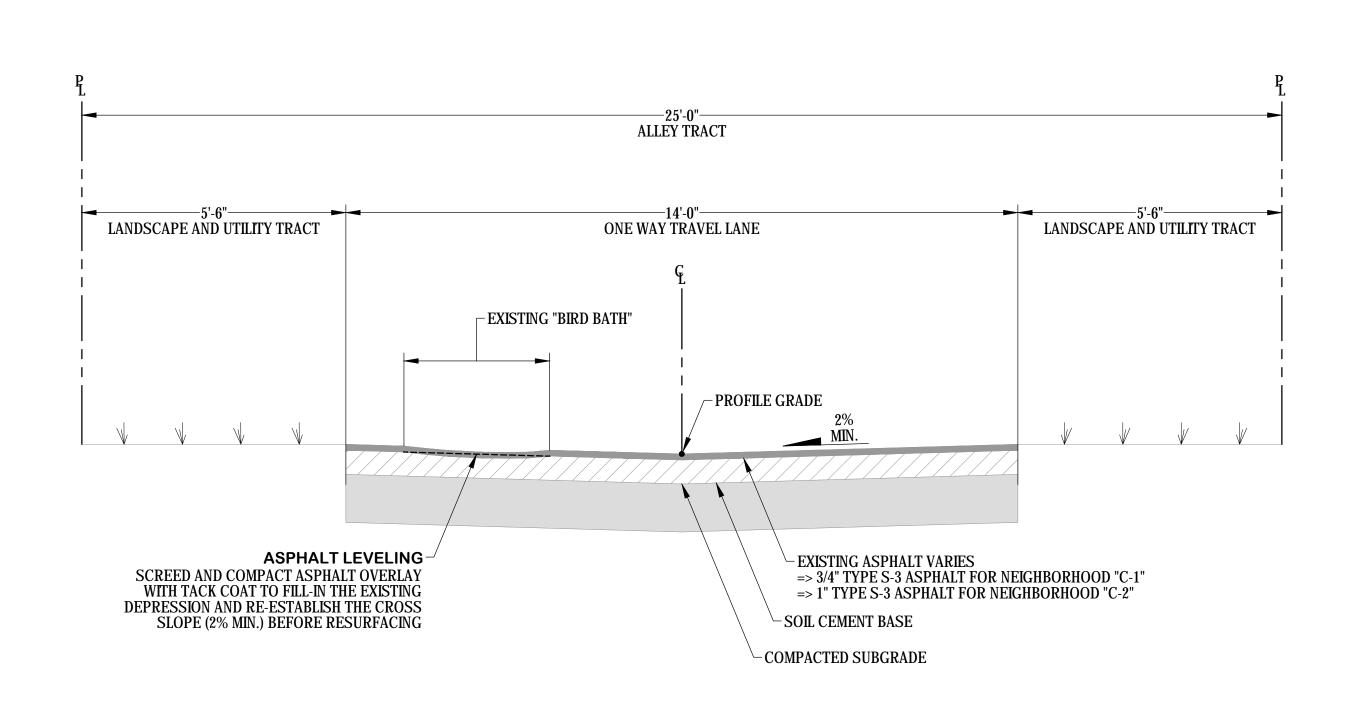
PAVEMENT MARKINGS FOR ALLEYS AND PEDESTRIAN CROSSWALKS NOT TO SCALE



# NEIGHBORHOOD "C-1"

ALLEY TYPICAL SECTION - ROAD RECONSTRUCTION

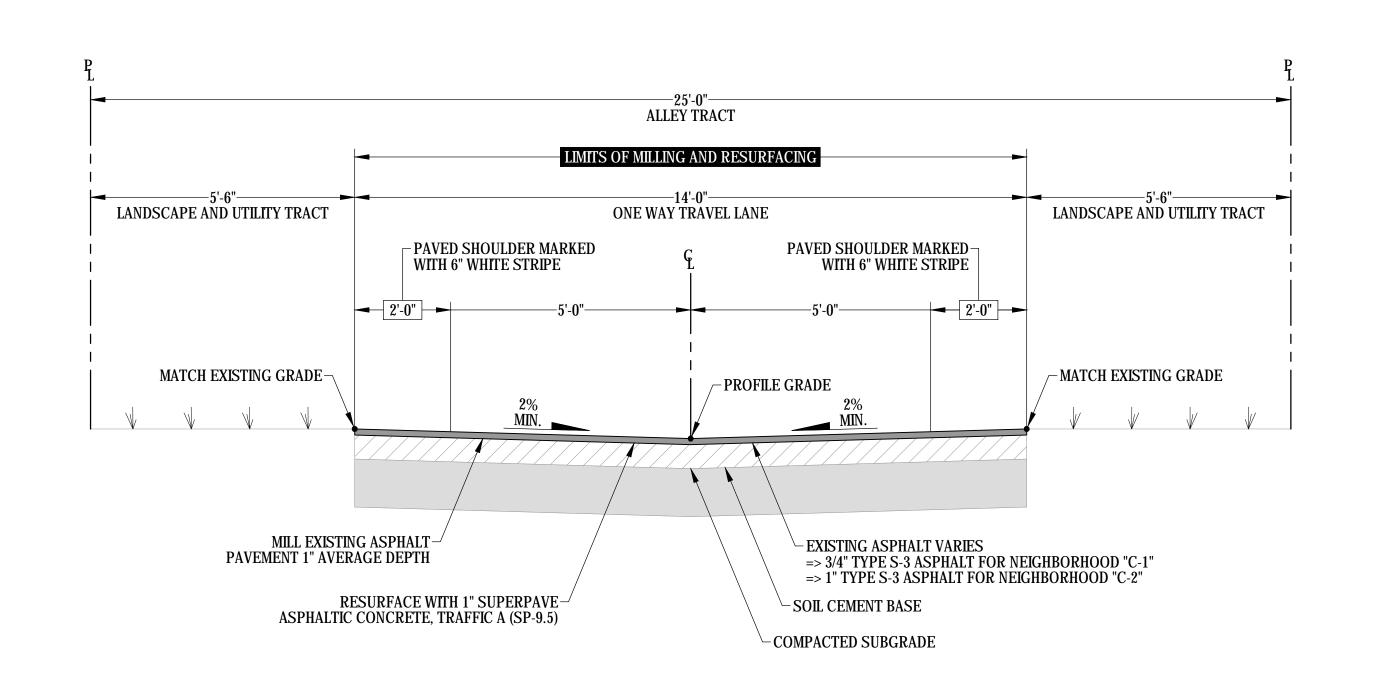
NOT TO SCALE



#### NEIGHBORHOODS "C-1" AND "C-2"

ALLEY TYPICAL SECTION - ASPHALT LEVELING

NOT TO SCALE



# NEIGHBORHOODS "C-1" AND "C-2"

ALLEY TYPICAL SECTION - MILLING AND RESURFACING

NOT TO SCALE

# NOTES:

1. THESE TYPICAL SECTIONS WERE REPRODUCED FROM THE ORIGINAL CONSTRUCTION PLANS FOR BIRCHWOOD P.U.D. NEIGHBORHOOD "B & C" PREPARED BY MILLER EINHOUSE RYMER ASSOCIATES, INC. (DATED APRIL 2, 2001) AND THE ORIGINAL CONSTRUCTION PLANS FOR BIRCHWOOD P.U.D. NEIGHBORHOOD "C-2" PREPARED BY MILLER EINHOUSE RYMER & BOYD (DATED JULY 21, 2003).

90% PLANS

CONSTRUCTION PLANS FOR HARMONY NE "C-1" AND "C-2" ROADWAY REHABILITATION

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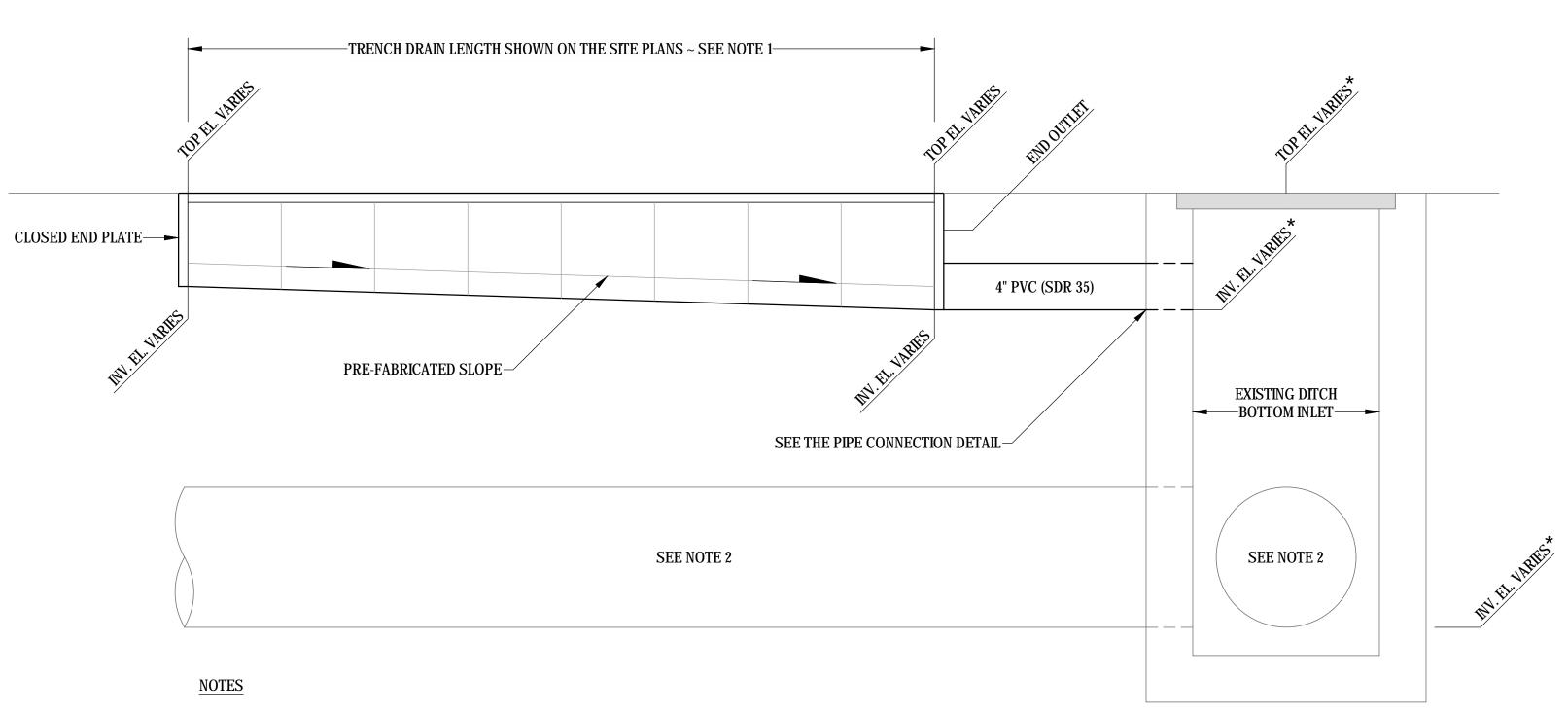
MSC-22055 DESIGNED BY: DRAWN BY: CAD APPROVED BY: JANUARY 2022

SHEET C09 OF C10

NOT A FINAL PLAN UNLESS SIGNED AND SEALED

> PRELIMINARY DAVID W. HAMSTRA, P.E. REGISTRATION No. 38652

DATE: January 7, 2022

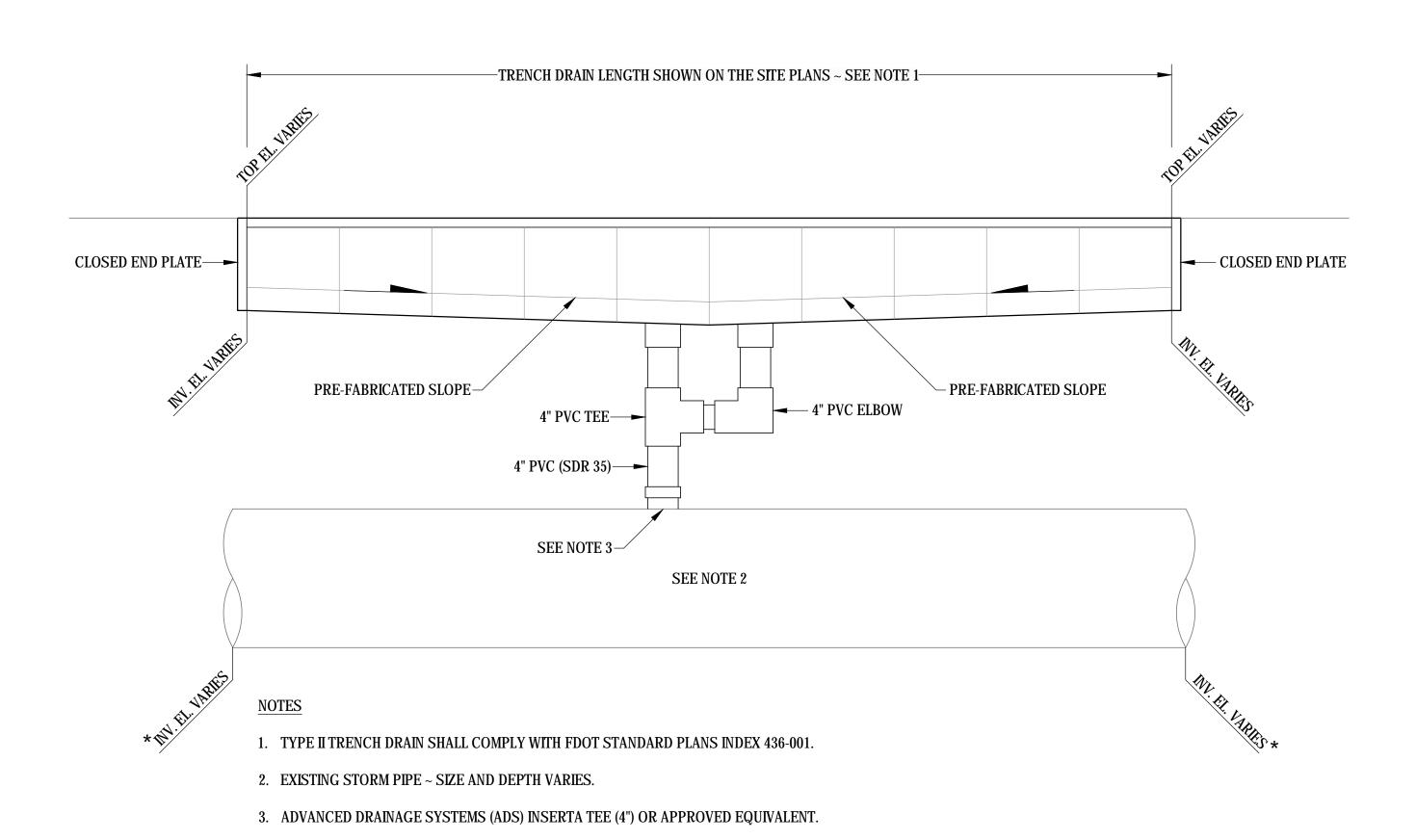


- 1. TYPE II TRENCH DRAIN SHALL COMPLY WITH FDOT STANDARD PLANS INDEX 436-001.
- 2. EXISTING STORM PIPE ~ SIZE AND CONFIGURATION VARIES.

PREPARING THE TRENCH DRAIN SHOP DRAWINGS.

\* THE CONTRACTOR SHALL OBTAIN SURVEY INFORMATION FOR THE EXISTING DRAINAGE STRUCTURE AND STORM PIPE AND EVALUATE POTENTIAL CONNECTION ISSUES AS PART OF PREPARING THE TRENCH DRAIN SHOP DRAWINGS.

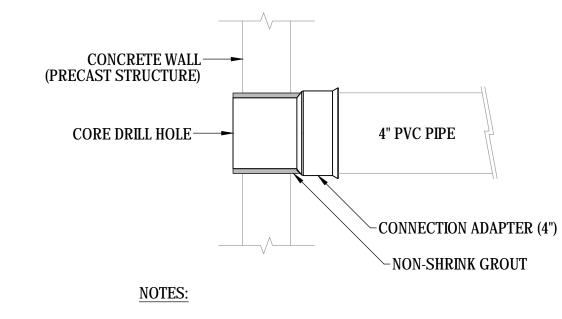
# **END OUTLET CONFIGURATION**



**BOTTOM OUTLET CONFIGURATION** 

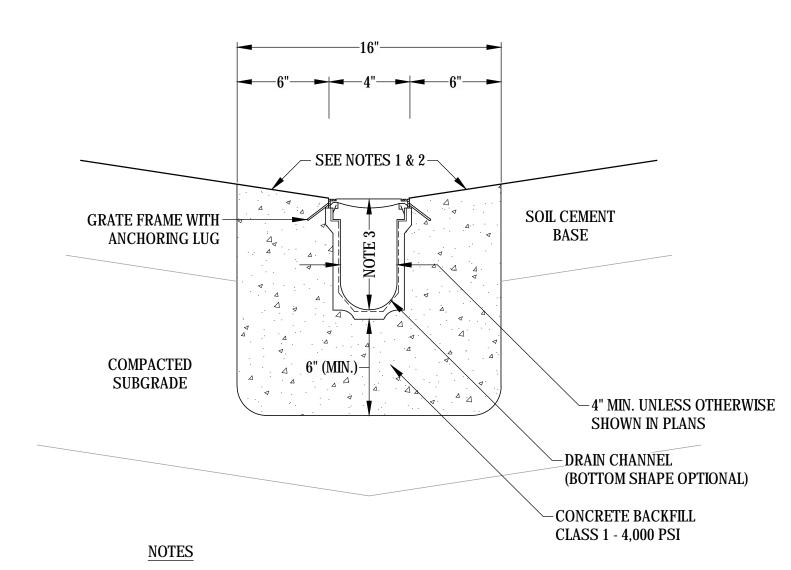
\* THE CONTRACTOR SHALL OBTAIN SURVEY INFORMATION FOR THE EXISTING STORM PIPE AND EVALUATE POTENTIAL CONNECTION ISSUES AS PART OF

TRENCH DRAIN NOT TO SCALE



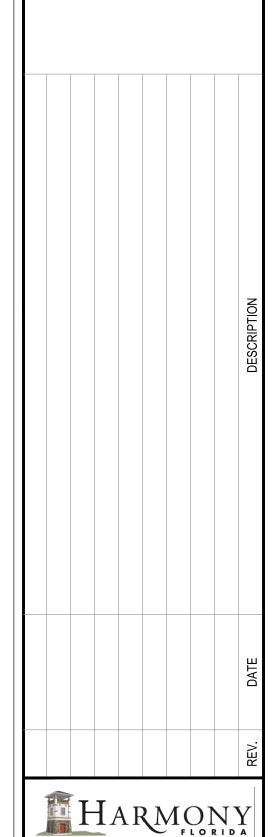
1. CONNECTION ADAPTER SHALL BE NYLOPLAST OR APPROVED EQUIVALENT.

#### PIPE CONNECTION DETAIL



- 1. EXISTING ASPHALT PAVEMENT.
- 2. EXISTING CROSS SLOPE (2% MIN.)
- 3. TRENCH DRAIN DEPTH VARIES.

TYPICAL SECTION



90% PLANS

CONSTRUCTION PLANS FOR HARMONY NE "C-1" AND "C-2" ROADWAY REHABILITATION

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SHEET C10 OF C10

NOT A FINAL PLAN UNLESS SIGNED AND SEALED

PRELIMINARY DAVID W. HAMSTRA, P.E. REGISTRATION No. 38652

DATE: January 7, 2022