

LEGAL DESCRIPTION

PARCEL 1:
 A PORTION OF THE NORTHEAST ¼ OF SECTION 27, TOWNSHIP 22 SOUTH, RANGE 27 EAST, ORANGE COUNTY, FLORIDA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NORTHEAST CORNER OF SAID SECTION 27, THENCE NORTH 89 DEGREES 21' 38" WEST ALONG THE NORTH LINE OF THE NORTHEAST ¼ OF SAID SECTION 27, A DISTANCE OF 635.74 FEET; THENCE DEPARTING SAID NORTH LINE, SOUTH 00 DEGREES 49' 03" WEST A DISTANCE OF 75.00 FEET TO A POINT ON THE SOUTH RIGHT OF WAY LINE OF STATE ROAD 50, THE POINT OF BEGINNING OF THE PARCEL HEREIN DESCRIBED; THENCE SOUTH 00 DEGREES 49'03" WEST A DISTANCE OF 881.73 FEET TO A POINT OF THE NORTHERLY BOUNDARY OF VILLAGE GROVE PHASE ONE, ACCORDING TO THE PLANT RECORDED IN PLAT BOOK12, PAGE 113, OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA; THENCE ALONG SAID NORTHERLY BOUNDARY AND NORTHERLY LINE OF VILLAGE GROVE PHASE TWO, ACCORDING TO THE PLAT RECORDED IN PLAT BOOK 14, PAGES 15 AND 16, OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA; A DISTANCE OF 964.46 FEET; THENCE NORTH 02 DEGREES 41'16" EAST A DISTANCE OF 1187.41 FEET TO THE SOUTHERLY RIGHT OF WAY OF STATE ROAD 50; THENCE SOUTH 89 DEGREES 21' 38" EAST ALONG SAID SOUTHERLY RIGHT OF WAY A DISTANCE OF 875.28 FEET TO THE POINT OF BEGINNING.

LESS AND EXCEPT THAT PORTION CONVEYED TO THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION BY VIRTUE OF WARRANTY DEED RECORDED AUGUST 8, 2006 IN OFFICIAL RECORDS BOOK 8794, PAGE 4314, DESCRIBED AS FOLLOWS:

COMMENCE AT A 6-INCH CONCRETE MONUMENT WITHOUT IDENTIFICATION AS SHOWN ON FLORIDA DEPARTMENT OF NATURAL RESOURCES CERTIFIED CORNER RECORD DOCUMENT NO.070974 MARKING THE SOUTHEAST CORNER OF THE NORTHEAST ¼ OF SECTION 27, TOWNSHIP 22 SOUTH, RANGE 27 EAST, ORANGE COUNTY, FLORIDA; THENCE RUN NORTH 00 DEGREES 33'36" EAST ALONG THE EAST LINE OF SAID NORTHEAST ¼ OF SECTION 27 A DISTANCE OF 2666.28 FEET TO THE NORTHEAST CORNER OF SAID NORTHEAST ¼ OF SECTION 27; THENCE DEPARTING SAID EAST LINE OF THE NORTHEAST ¼ OF SECTION 27, RUN NORTH 00 DEGREES 07' 46" WEST ALONG THE EAST LINE OF THE SOUTHEAST ¼ OF SECTION 22, TOWNSHIP 22 SOUTH, RANGE 27 EAST, ORANGE COUNTY, FLORIDA A DISTANCE OF 1.71 FEET TO A POINT ON THE CENTERLINE OF SURVEY OF STATE ROAD 50 AS SHOWN ON FLORIDA DEPARTMENT OF TRANSPORTATION RIGHT OF WAY MAP SECTION 75050, FINANCIAL PROJECT NO. 410983 1, SAID POINT ALSO BEING A POINT ON A NON-TANGENT CURVE CONCAVE NORTHERLY HAVING A RADIUS OF 68,754.94 FEET AND A CHORD BEARING OF NORTH 89 DEGREES 25' 27" WEST; THENCE FROM A TANGENT BEARING OF NORTH 89 DEGREES 37' 36" WEST, RUN WESTERLY ALONG SAID CENTERLINE OF SURVEY AND ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 00 DEGREES 24' 16" A DISTANCE OF 485.45 FEET TO THE POINT OF TANGENCY, SAID POINT ALSO BEING A POINT ON THE NORTH LINE OF THE AFORESAID NORTHEAST ¼ OF SECTION 27; THENCE RUN NORTH 89 DEGREES 13' 19" WEST ALONG SAID CENTERLINE OF SURVEY AND ALONG SAID NORTH LINE A DISTANCE OF 780.34 FEET TO A POINT ON THE EAST LINE OF THE NORTHWEST ¼ OF SAID NORTHEAST ¼ OF SECTION 27; THENCE DEPARTING SAID CENTERLINE OF SURVEY AND SAID NORTH LINE, RUN SOUTH 01 DEGREES 14' 52" WEST ALONG SAID EAST LINE A DISTANCE OF 75.00 FEET TO A POINT ON THE EXISTING SOUTH RIGHT OF WAY LINE OF AFORESAID STATE ROAD 50 AS SHOWN ON THE AFORESAID RIGHT OF WAY MAP; THENCE DEPARTING SAID EAST LINE, RUN NORTH 89 DEGREES 13' 19" WEST ALONG SAID EXISTING SOUTH RIGHT OF WAY LINE OF STATE ROAD 50 A DISTANCE OF 242.47 FEET; THENCE DEPARTING SAID SOUTH RIGHT OF WAY LINE OF STATE ROAD 50, RUN SOUTH 03 DEGREES 07' 51" WEST A DISTANCE OF 930.83 FEET FOR A POINT OF BEGINNING; THENCE RUN SOUTH 86 DEGREES 52' 09" EAST A DISTANCE OF 40.00 FEET; THENCE RUN NORTH 03 DEGREES 07' 51" EAST A DISTANCE OF 340.68 FEET; THENCE RUN SOUTH 86 DEGREES 52' 09" EAST A DISTANCE OF 20.00 FEET; THENCE RUN SOUTH 52 DEGREES 12' 58" EAST A DISTANCE OF 472.98 FEET; THENCE RUN SOUTH 03 DEGREES 07' 51" WEST A DISTANCE OF 116.01 FEET; THENCE RUN SOUTH 72 DEGREES 25' 21" WEST A DISTANCE OF 295.12 FEET; THENCE RUN NORTH 52 DEGREES 29' 11" WEST A DISTANCE IF 161.19 FEET; THENCE RUN NORTH 03 DEGREES 07' 51" EAST A DISTANCE OF 17.59 FEET; THENCE RUN NORTH 86 DEGREES 52' 09" WEST A DISTANCE OF 40.00 FEET; THENCE RUN NORTH 03 DEGREES 07' 51" EAST A DISTANCE OF 40.00 FEET TO THE POINT OF BEGINNING.

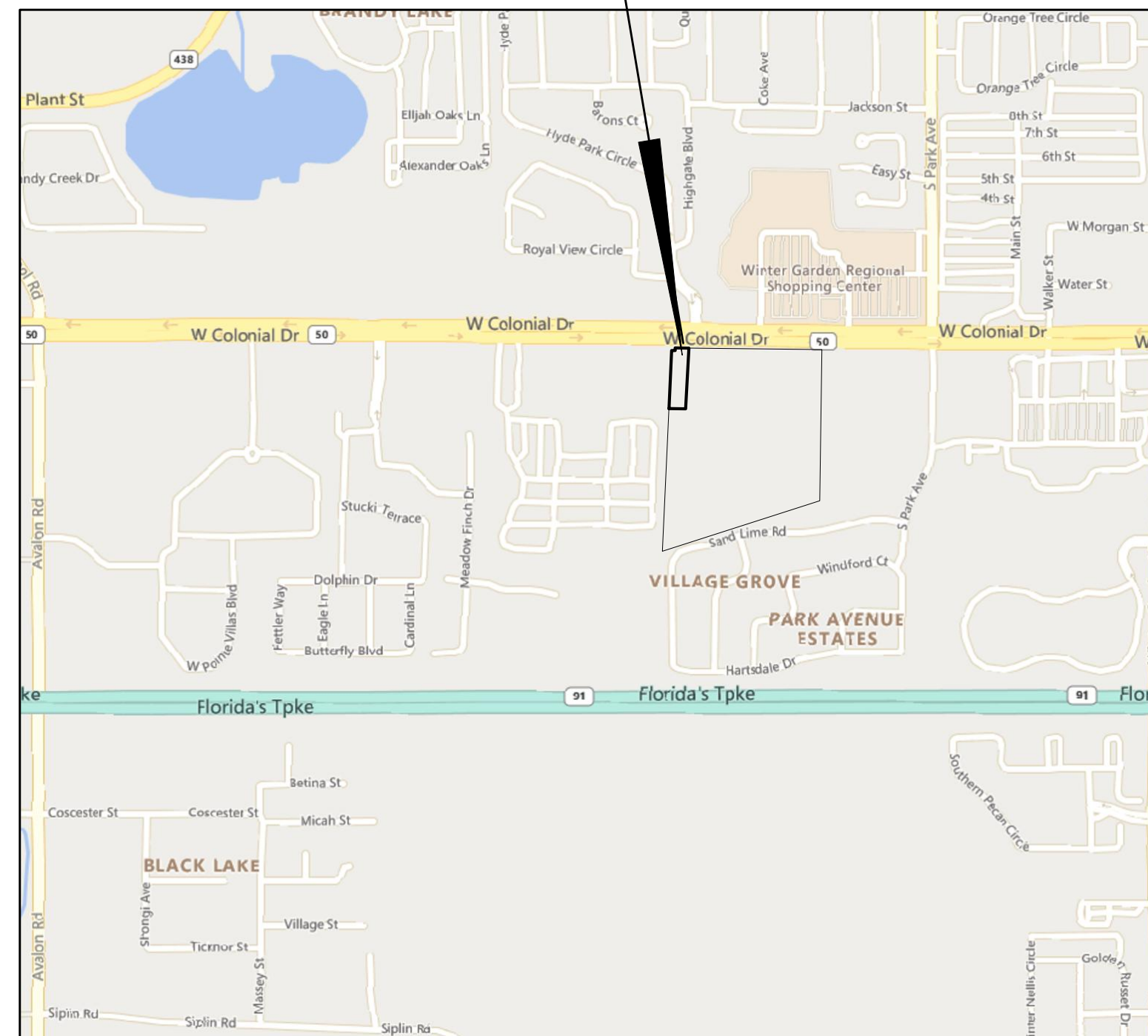
ALSO LESS AND EXCEPT THAT PORTION CONVEYED TO THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION BY VIRTUE OF WARRANTY DEED RECORDED AUGUST 8, 2006 IN OFFICIAL RECORDS BOOK 8794, PAGE 4374, DESCRIBED AS FOLLOWS:

COMMENCE AT A 6-INCH CONCRETE MONUMENT WITHOUT IDENTIFICATION AS SHOWN ON FLORIDA DEPARTMENT OF NATURAL RESOURCES CERTIFIED CORNER RECORD DOCUMENT NO. 070974 MARKING THE SOUTHEAST CORNER OF THE NORTHEAST ¼ OF SECTION 27, TOWNSHIP 22 SOUTH, RANGE 27 EAST, ORANGE COUNTY, FLORIDA; THENCE RUN NORTH 00 DEGREES 33' 36" EAST ALONG THE EAST LINE OF SAID NORTHEAST ¼ OF SECTION 27 A DISTANCE OF 2666.28 FEET TO THE NORTHEAST CORNER OF SAID NORTHEAST ¼ OF SECTION 27; THENCE DEPARTING SAID EAST LINE OF THE NORTHEAST ¼ OF SECTION 27, RUN NORTH 00 DEGREES 07' 46" WEST ALONG THE EAST LINE OF THE SOUTHEAST ¼ OF SECTION 22, TOWNSHIP 22 SOUTH, RANGE 27 EAST, ORANGE COUNTY, FLORIDA A DISTANCE OF 1.71 FEET TO A POINT ON THE CENTERLINE OF SURVEY OF STATE ROAD 50 AS SHOWN ON FLORIDA DEPARTMENT OF TRANSPORTATION ON RIGHT OF WAY MAP SECTION 75050, FINANCIAL PROJECT NO. 410983 1, SAID POINT ALSO BEING A POINT ON A NON-TANGENT CURVE CONCAVE NORTHERLY HAVING A RADIUS OF 68,754.94 FEET AND A CHORD BEARING OF NORTH 89 DEGREES 25' 27" WEST; THENCE FROM A TANGENT BEARING OF NORTH 89 DEGREES 37' 36" WEST, RUN WESTERLY ALONG SAID CENTERLINE OF SURVEY AND ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 00 DEGREES 24' 16" A DISTANCE OF 485.45 FEET TO THE POINT OF TANGENCY, SAID POINT ALSO BEING A POINT ON THE NORTH LINE OF THE AFORESAID NORTHEAST ¼ OF SECTION 27; THENCE RUN NORTH 89 DEGREES 13' 19" WEST ALONG SAID CENTERLINE OF SURVEY AND ALONG SAID NORTH LINE, A DISTANCE OF 780.34 FEET TO A POINT ON THE EAST LINE OF THE NORTHWEST ¼ OF SAID NORTHEAST ¼ OF SECTION 27; THENCE DEPARTING SAID CENTERLINE OF SURVEY AND SAID NORTH LINE, RUN SOUTH 01 DEGREES 14' 52" WEST ALONG SAID EAST LINE OF A DISTANCE OF 75.00 FEET TO A POINT ON THE EXISTING SOUTH RIGHT OF WAY LINE OF AFORESAID STATE ROAD 50 AS SHOWN ON THE AFORESAID RIGHT OF WAY MAP; THENCE DEPARTING SAID EAST LINE, RUN NORTH 89 DEGREES 13' 19" WEST ALONG SAID EXISTING SOUTH RIGHT OF WAY LINE OF STATE ROAD 50 A DISTANCE OF 222.45 FEET FOR THE POINT OF BEGINNING; THENCE DEPARTING SAID EXISTING SOUTH RIGHT OF WAY LINE OF STATE ROAD 50, RUN SOUTH 03 DEGREES 07' 51" WEST A DISTANCE OF 15.01 FEET; THENCE RUN NORTH 89 DEGREES 13' 19" WEST PARALLEL WITH SAID EXISTING SOUTH RIGHT OF WAY LINE OF STATE ROAD 50 A DISTANCE OF 20.02 FEET; THENCE RUN NORTH 03 DEGREES 07' 51" EAST A DISTANCE OF 15.01 FEET TO A POINT ON SAID EXISTING SOUTH RIGHT OF WAY LINE OF STATE ROAD 50; THENCE RUN SOUTH 89 DEGREES 13' 19" EAST ALONG SAID EXISTING SOUTH RIGHT OF WAY LINE OF STATE ROAD 50; THENCE RUN SOUTH 89 DEGREES 13' 19" EAST ALONG SAID EXISTING SOUTH RIGHT OF WAY LINE OF STATE ROAD 50 A DISTANCE OF 20.02 FEET TO THE POINT OF BEGINNING.

WEST MARKET LOT 10

WINTER GARDEN, FL PREPARED FOR J HEBDEN PARK, LLC 848 BENDING OAK TRAIL WINTER GARDEN, FLORIDA 34787 PHONE: (407) 353-2296

PROJECT LOCATION WEST MARKET LOT 10



VICINITY MAP
 N.T.S.

OWNER/DEVELOPER
 GARDENIA PLAZA, LLC
 1220 WEST COLONIAL DRIVE
 SUITE 303
 WINTER GARDEN, FL 34787
 (407) 654-7545

CIVIL ENGINEER
 CONNELLY & WICKER INC
 1560 NORTH ORANGE AVENUE, SUITE 210
 WINTER PARK, FL 32789
 (407)261-3100
 CONTACT: RYAN BLAIDA, P.E.

LANDSCAPE ARCHITECT
 CONNELLY & WICKER INC
 1560 NORTH ORANGE AVENUE, SUITE 210
 WINTER PARK, FL 32789
 (407)261-3100
 CONTACT: MICHAEL HOLBROOK, ASLA

DRINKING WATER
 CITY OF WINTER GARDEN
 300 W. PLANT STREET
 WINTER GARDEN, FL 34787
 (407) 656-4111

SANITARY SEWER
 CITY OF WINTER GARDEN
 300 W. PLANT STREET
 WINTER GARDEN, FL 34787
 (407) 656-4111

GARBAGE DISPOSAL
 CITY OF WINTER GARDEN
 300 W. PLANT STREET
 WINTER GARDEN, FL 34787
 (407) 656-4111

GAS
 LAKE APOPKA GAS
 1320 WINTER GARDEN-VINELAND RD.
 WINTER GARDEN, FL 34787
 (407) 656-2734

SURVEYOR
 GARY A. BURDEN
 1507 S. HIAWASSEE ROAD
 SUITE 211
 ORLANDO, FL 32835
 (407) 694-2461

TRAFFIC
 TPD
 535 VERSAILLES DR.
 MAITLAND, FL 32751
 (407) 628-9955

GEOTECHNICAL ENGINEER
 INTEGRITY DRILLING & GEOPHYSICAL SERVICES, LLC
 1506 MAX HOOKS ROAD #C
 GROVELAND, FL 34736
 (866) 574-4347

ELECTRIC
 DUKE ENERGY
 P.O. BOX 1004
 CHARLOTTE, NC 28201
 (866)372-4663

PHONE
 CENTURY LINK
 555 LAKE BORDER DRIVE
 APOPKA, FL 32703
 (844)837-2765

CABLE
 SPECTRUM
 894 MAGUIRE ROAD
 OCOEE, FL 34761
 (407)291-2500

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Sunshine 811
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Check positive response codes before you dig!

Connelly & Wicker Inc.
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 10060 Skinner Lake Drive, Suite 500 Jacksonville, Florida 32246
 (904) 265-3030 FAX: (904) 265-3031 www.cwieng.com
 Florida Registry 3650 L.A. Number: LC26000311

By	Revision
No.	Date

COVER

WEST MARKET LOT 10
 WINTER GARDEN, FL
 PREPARED FOR
 J HEBDEN PARK, LLC

AUTUMN M. HUBSCH
 P.E. NUMBER: 72939
 Reg. Engineer

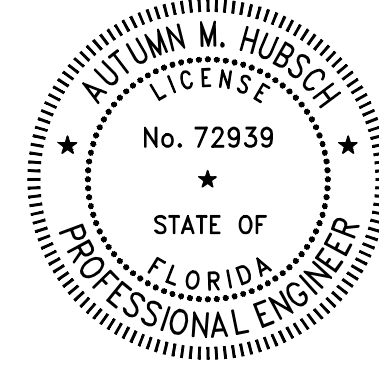
Project No.:	23-04-0002
Designed:	AMH
Checked:	JEW
Date:	DECEMBER 2023
Scale:	

Sheet **1**

Connelly & Wicker Inc.
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 www.cwieng.com



THIS ITEM HAS BEEN DIGITALLY SIGN AND SEALED BY:
AUTUMN M. HUBSCH ON THE DATE ADJACENT TO THE SEAL:

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SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED
ON ANY ELECTRONIC COPIES.

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PHONE 904.265.3030 FAX 904.265.3031
FLORIDA REGISTRY NO. 3650 LA NO. LC26000311
AUTUMN M. HUBSCH, P.E. NO. 72939

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN
ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

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SIGNATURE SHEET

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WINTER GARDEN, FL
PREPARED FOR
J HEBDEN PARK, LLC

AUTUMN M. HUBSCH
P.E. NUMBER: 72939
Reg. Engineer

Project No.: 23-04-0002
 Designed: AMH Drawn: DCG
 Checked: JEW O.P.: RCW
 Date: DECEMBER 2023
 Scale:

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GENERAL NOTES:

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF WINTER GARDEN DEVELOPMENT CODE REQUIREMENTS, AND THE MINIMUM STANDARD CONSTRUCTION DETAILS AND CONSTRUCTION SPECIFICATIONS. AN ENGINEERING PERMIT AND REMOVAL PERMIT IS REQUIRED PRIOR TO STARTING CONSTRUCTION.
 - ALL WORK SHALL BE PERFORMED IN A SAFE MANNER. ALL SAFETY RULES AND GUIDELINES OF O.S.H.A. SHALL BE FOLLOWED. THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ANY INJURIES TO HIS EMPLOYEES, AND ANY DAMAGE TO PRIVATE PROPERTY OR PERSONS DURING THE COURSE OF THIS PROJECT. ALL COSTS ASSOCIATED WITH COMPLYING WITH O.S.H.A. REGULATIONS AND THE FLORIDA TRENCH SAFETY ACT MUST BE INCLUDED IN THE CONTRACTORS BID.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE JOB SITE PRIOR TO PREPARING THE BID FOR THE PURPOSE OF FAMILIARIZING HIMSELF WITH THE NATURE AND THE EXTENT OF THE WORK AND LOCAL CONDITIONS, EITHER SURFACE OR SUB-SURFACE, WHICH MAY AFFECT THE WORK TO BE PERFORMED, AND THE EQUIPMENT, LABOR AND MATERIALS REQUIRED. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF COMPLETE PERFORMANCE UNDER THIS CONTRACT. THE CONTRACTOR IS ALSO URGED TO TAKE COLOR PHOTOGRAPHS THROUGHOUT THE PROJECT AREA TO RECORD EXISTING CONDITIONS PRIOR TO CONSTRUCTION, AND TO AID IN RESOLVING POSSIBLE FUTURE COMPLAINTS THAT MAY OCCUR DUE TO CONSTRUCTION OF THE PROJECT.
 - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EITHER CONDUCT ANY FIELD EXPLORATION OR ACQUIRE ANY GEOTECHNICAL ASSISTANCE REQUIRED TO ESTIMATE THE AMOUNT OF UNSUITABLE MATERIAL REQUIRED TO BE REMOVED AND/OR TO ESTIMATE THE AMOUNT OF OFF SITE BORROW THAT WILL BE REQUIRED.
 - ALL IMPROVEMENTS SHOWN ARE TO BE WARRANTED BY THE CONTRACTOR TO THE COUNTY/OWNER FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE.
 - FOR BOUNDARY, ROADWAY AND LOT GEOMETRY INFORMATION SEE PLAT OR ALTA SURVEY.
 - THE CONTRACTOR WILL CONTRACT WITH AN INDEPENDENT TESTING LABORATORY TO PERFORM MATERIAL TESTING AND SOIL TESTING IN ACCORDANCE WITH THE PROJECT REQUIREMENTS. THIS SHALL INCLUDE DENSITY TESTS IN ALL PAVEMENT AREAS AND IN ALL UTILITY TRENCHES LOCATED IN PAVEMENT AREAS CONCRETE TESTING AND ALL OTHER MATERIAL TESTING. PRIOR TO ROAD BASE PLACEMENT.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE FOR THE PROJECT INCLUDING CITY RIGHT-OF-WAY PERMITS FOR WORK IN THE CITY RIGHT-OF-WAY OR EASEMENT.
 - THE CONTRACTOR SHALL COORDINATE THE WORK WITHIN CITY OR STATE RIGHT-OF-WAY WITH THE PROPER AGENCIES FOR MAINTENANCE OF TRAFFIC AND METHOD OF CONSTRUCTION AND REPAIR.
 - "AS-BUILT" DRAWINGS -- AS-BUILTS TO THE CITY/OWNER AND THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT ARE REQUIRED TO BE SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR THEREFORE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTRACT WITH A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA FOR THE PREPARATION, FIELD LOCATIONS, CERTIFICATION AND SUBMITTAL OF "AS-BUILT" DRAWINGS IN ACCORDANCE WITH CURRENT CITY OF WINTER GARDEN STANDARDS AND SPECIFICATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROCESS THE "AS-BUILT" DRAWINGS FOR APPROVAL BY THE CITY.
 - THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION WITH ALL OTHER CONTRACTORS. IN THE EVENT OF ANY CONFLICT WHATSOEVER, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION.
 - CLEARING AND GRUBBING REQUIRED FOR ALL ROADWAY, UTILITIES, DITCHES, AND BERMS INCLUDED IN THIS PROJECT, AND THE CLEARING AND GRUBBING OF ALL RIGHT-OF-WAY OR EASEMENTS SHALL BE CONSIDERED AS PART OF THE PROJECT.
 - ALL AREAS SHOWN TO BE FILLED SHALL BE CLEARED AND GRUBBED IN ACCORDANCE WITH PROJECT REQUIREMENTS AND SHALL BE FILLED WITH CLEAN STRUCTURAL FILL COMPACTED AND TESTED.
 - CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL SURVEY AND PROPERTY MONUMENTS. IF A MONUMENT IS DISTURBED, THE CONTRACTOR SHALL CONTRACT WITH THE SURVEYOR OF RECORD FOR REINSTALLATION OF THE MONUMENT.
 - ALL DEBRIS RESULTING FROM ALL ACTIVITIES SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR.
 - ALL EXCESS SUITABLE AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR UNLESS DIRECTED OTHERWISE BY ENGINEER OR OWNER.
 - ALL EXISTING TREES TO REMAIN SHALL BE PRESERVED AND PROTECTED.
 - NO BURNING OF TREES, BRUSH AND OTHER MATERIAL SHALL BE PERMITTED ON SITE.
 - PROVIDE CONTRACTION JOINTS AT 10' O.C. AND EXPANSION JOINTS AT 50' O.C. FOR CURBING. PROVIDE CONTRACTION JOINTS AT 6' O.C. AND EXPANSION JOINTS AT 18' O.C. ON ALL EXTERIOR SIDEWALKS.
 - MAINTENANCE OF TRAFFIC SHALL CONFORM TO PLAN HEREIN.
 - ALL SIGNING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH F.D.O.T. STANDARD INDEXES 11860, 17346, AND 17352.
 - ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE PROPOSED ROADWAY/SITE DEVELOPMENT SHALL BE REMOVED BY THE CONTRACTOR UTILIZING METHOD APPROVED BY THE CITY.
 - ALL STORM PIPE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
 - ALL SIDEWALKS, RAMPS, AND CROSSWALKS, WILL BE BUILT AND INSPECTED TO MEET CURRENT ADA REQUIREMENTS.
- POTABLE NOTES:
- ALL PIPELINE MATERIAL AND INSTALLATION SHALL CONFORM TO THE CITY OF WINTER GARDEN STANDARDS (2020), CONTRACT DOCUMENTS, TECHNICAL SPECIFICATIONS AND ALL APPLICABLE LOCAL AND STATE REQUIREMENTS.
 - THE CONTRACTOR SHALL ENSURE THAT ALL REQUIRED PERMITS ARE IN HAND BEFORE COMMENCEMENT OF CONSTRUCTION.
 - ALL UTILITY OWNERS AND SUNSHINE STATE ONE CALL (800) 432-4770 MUST BE NOTIFIED SEVENTY-TWO (72) HOURS PRIOR TO STARTING CONSTRUCTION.
 - THE CONTRACTOR SHALL NOTIFY FIBEROPTICS COMPANIES SEVEN (7) WORKING DAYS PRIOR TO ANY CONSTRUCTION ACTIVITY IN THEIR AREA. EXTREME CAUTION SHALL BE USED IN AREAS WHERE FIBEROPTIC CABLE IS LOCATED ADJACENT TO CONSTRUCTION ACTIVITY.
- ALL PIPING AND/OR APPURTENANCES CONNECTING TO ADJACENT CONSTRUCTION SHALL BE PLUGGED IF ADJACENT WORK HAS NOT BEEN COMPLETED.
 - CONTRACTOR SHALL PROVIDE TEMPORARY THRUST RESTRAINTS, BRACING, TEST PLUGS AND/OR OTHER DEVICES NECESSARY TO SUCCESSFULLY COMPLETE PRESSURE TESTING OF ALL PRESSURE PIPING SYSTEMS.
 - ALL FITTINGS FOR BURIED PIPING 4-INCH AND LARGER, SHALL BE DUCTILE IRON MECHANICAL JOINT (D.I.M.J.) BITUMEN COATED EXTERIOR, APPLIED PER ANSI/AWWA A21.15/C151 UNLESS NOTED OTHERWISE. THESE FITTINGS SHALL INCORPORATE RESTRAINING RINGS, MEGA-LUGS OR OTHER APPROVED EQUIVALENT MECHANICAL DEVICES.
 - ALL BURIED PIPING SPECIFIED FOR PRESSURE SERVICE SHALL BE PROVIDED WITH RESTRAINING DEVICES AT ALL DIRECTIONAL CHANGES, UNLESS NOTED OTHERWISE.
 - ALL PROPOSED DUCTILE IRON PIPE, FITTINGS AND RESTRAINTS WITHIN FIFTY (50) FEET OF AN EXISTING GAS MAIN SHALL BE POLYETHYLENE ENCASED.
 - ALL FASTENERS SHALL BE MANUFACTURED OF NON-CORROSIVE MATERIALS. WHEN STAINLESS STEEL IS REQUIRED, 304 S.S. SHALL BE USED FOR ALL BURIED APPLICATIONS AND 316 S.S. SHALL BE USED FOR ABOVE GROUND OR CORROSIVE ENVIRONMENTS.
 - THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THESE DRAWINGS HAVE BEEN DERIVED FROM EXISTING UTILITY RECORDS AND ACCURACY OF THIS INFORMATION IS NOT GUARANTEED. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT LOCATION, DEPTH AND CHARACTER OF ALL UTILITIES PRIOR TO EXCAVATION IN ORDER TO PROTECT THEM DURING CONSTRUCTION.
 - WHERE MINIMUM SEPARATION BETWEEN UTILITIES IS REQUIRED, THE DISTANCE SHALL BE MEASURED FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
 - CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AT ALL INTERSECTIONS OF PROPOSED WORK AND EXISTING UTILITIES. THE EXPLORATORY EXCAVATIONS SHALL BE MADE FORTY-EIGHT (48) HOURS IN ADVANCE OF THE PROPOSED WORK. IF THERE IS A CONFLICT THE CONTRACTOR SHALL NOTIFY THE CITY OF PALM COAST IMMEDIATELY. INFORMATION ON THE OBSTRUCTION SHALL BE FURNISHED BY THE CONTRACTOR AND SHALL INCLUDE: LOCATION, ELEVATION, UTILITY TYPE, MATERIAL AND SIZE.
 - LOCATIONS AND DIMENSIONS OF EXISTING RIGHTS-OF-WAY AND EASEMENTS ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY ALL THE LIMITS OF RIGHTS-OF-WAY AND EASEMENTS IN ORDER TO AVOID ENCROACHMENTS.
 - THE CONTRACTOR SHALL REPLACE SOD 3 FEET FROM ALL DISTURBED AREAS: STRUCTURES, SIDEWALKS, ROADS, AND POND IMPROVEMENT AREAS. ALL OTHER DISTURBED AREAS SHALL BE SODDED OR SEEDDED AND MULCHED AS SHOWN ON THE DRAWINGS.
 - THE CONTRACTOR SHALL REPLACE, BUT NOT BE LIMITED TO, PAVING, STABILIZED EARTH, DRIVEWAYS OR ANY ITEMS DISTURBED OR DAMAGED BY THE CONSTRUCTION OR ITS RELATED ACTIVITIES. THE CONTRACTOR SHALL REPLACE WITH EQUAL MATERIAL OR AS DIRECTED BY THE CITY OF WINTER GARDEN.
 - THE DISPOSAL OF ANY EXCESS EARTHWORK MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - ALL PRACTICAL AND NECESSARY EFFORT SHALL BE TAKEN DURING CONSTRUCTION TO PREVENT UNNECESSARY TREE REMOVAL.
 - IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE HIS WORK WITH THE WORK SCHEDULE OF ADJACENT CONTRACTORS AS WELL AS THE OPERATIONS STAFF OF THE CITY OF WINTER GARDEN.
 - THE CONTRACTOR SHALL NOTIFY THE CITY OF WINTER GARDEN 72 HOURS BEFORE COMMENCING WITH CONSTRUCTION.
 - PIPE MEASUREMENTS SHALL BE CENTER TO CENTER OF FITTINGS OR VALVES.
 - PVC PIPE LESS THAN 2-INCHES SHALL CONFORM TO ASTM D1785. THREADED PIPE AND FITTINGS SHALL BE SCH. 80 AND CONFORM TO ASTM D2464. UNTHREADED PIPE AND FITTINGS SHALL BE SCH. 40 WITH SOLVENT CEMENTED JOINTS. CEMENTED JOINTS AND FITTINGS SHALL COMPLY WITH ASTM D2466 AND D2855.
 - 2", 2 1/2" AND 3" PVC PIPE SHALL CONFORM TO ASTM D2241. PIPE SHALL BE FURNISHED IN 20-FOOT LENGTHS, SHALL HAVE DIMENSION RATIO (DR21) AND A WATER PRESSURE RATING OF 200 PSI.
 - PVC PIPE 4-INCHES THROUGH 12-INCHES SHALL CONFORM TO AWWA STANDARD C900 (DR18); PVC PIPE 14-INCHES THROUGH 48-INCHES SHALL CONFORM TO AWWA STANDARD C905 (DR18) UNLESS NOTED OTHERWISE.
 - DUCTILE IRON PIPE SHALL CONFORM TO AWWA STANDARD C151, PRESSURE CLASS 350 FOR 4-INCH THROUGH 12-INCH DIAMETER PIPE; PRESSURE CLASS 250 FOR PIPE LARGER THAN 12-INCHES IN DIAMETER UNLESS NOTED OTHERWISE.
 - VALVES FOR POTABLE WATER MAINS SHALL BE DUCTILE IRON (D.I.) EPOXY COATED GATE VALVES OR BUTTERFLY VALVES. VALVES FOR RAW WATER MAINS SHALL BE DUCTILE IRON (D.I.) EPOXY COATED GATE VALVES ONLY. SEE SPECIFICATIONS FOR DETAILS.
 - ALL POLYETHYLENE PRESSURE PIPE AND FITTINGS 4-INCH AND LARGER SHALL CONFORM TO AWWA STANDARD C906-99 (DR11) PRESSURE CLASS 160 AND ASTM STANDARD D3350, D2837 PE 3408.
- SANITARY SEWER NOTES
- ALL PIPELINE MATERIAL AND INSTALLATION SHALL CONFORM TO THE CITY OF WINTER GARDEN STANDARDS (2020), CONTRACT DOCUMENTS, TECHNICAL SPECIFICATIONS AND ALL APPLICABLE LOCAL AND STATE REQUIREMENTS.
 - THE CONTRACTOR SHALL ENSURE THAT ALL REQUIRED PERMITS ARE IN HAND BEFORE COMMENCEMENT OF CONSTRUCTION.
 - ALL UTILITY OWNERS AND SUNSHINE STATE ONE CALL (800) 432-4770 MUST BE NOTIFIED SEVENTY-TWO (72) HOURS PRIOR TO STARTING CONSTRUCTION.
 - THE CONTRACTOR SHALL NOTIFY FIBEROPTICS COMPANIES SEVEN (7) WORKING DAYS PRIOR TO ANY CONSTRUCTION ACTIVITY IN THEIR AREA. EXTREME CAUTION SHALL BE USED IN AREAS WHERE FIBEROPTIC CABLE IS LOCATED ADJACENT TO CONSTRUCTION ACTIVITY.
 - ALL PIPING AND/OR APPURTENANCES CONNECTING TO ADJACENT CONSTRUCTION SHALL BE PLUGGED IF ADJACENT WORK HAS NOT BEEN COMPLETED.
 - THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THESE DRAWINGS HAVE BEEN

- DERIVED FROM EXISTING UTILITY RECORDS. ACCURACY OF THIS INFORMATION IS NOT GUARANTEED. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT LOCATION, DEPTH AND CHARACTER OF ALL UTILITIES PRIOR TO EXCAVATION IN ORDER TO PROTECT THESE UTILITIES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AT ALL INTERSECTIONS OF PROPOSED WORK AND EXISTING UTILITIES. THE EXPLORATORY EXCAVATIONS SHALL BE MADE FORTY-EIGHT (48) HOURS IN ADVANCE OF THE PROPOSED WORK. IF THERE IS A CONFLICT THE CONTRACTOR SHALL NOTIFY THE CITY OF WINTER GARDEN IMMEDIATELY. INFORMATION ON THE OBSTRUCTION SHALL BE FURNISHED BY THE CONTRACTOR AND SHALL INCLUDE: LOCATION, ELEVATION, UTILITY TYPE, MATERIAL AND SIZE.
 - LOCATIONS AND DIMENSIONS OF EXISTING RIGHTS-OF-WAY AND EASEMENTS ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY ALL THE LIMITS OF RIGHTS-OF-WAY AND EASEMENTS IN ORDER TO AVOID ENCROACHMENTS.
 - THE CONTRACTOR SHALL REPLACE SOD 3 FEET FROM ALL DISTURBED AREAS: STRUCTURES, SIDEWALKS, ROADS, AND POND IMPROVEMENT AREAS. ALL OTHER DISTURBED AREAS SHALL BE SODDED OR SEEDDED AND MULCHED AS SHOWN ON THE DRAWINGS.
 - THE CONTRACTOR SHALL REPLACE, BUT NOT BE LIMITED, TO PAVING, STABILIZED EARTH, DRIVEWAYS OR ANY ITEMS DISTURBED OR DAMAGED BY THE CONSTRUCTION OR ITS RELATED ACTIVITIES. THE CONTRACTOR SHALL REPLACE WITH EQUAL MATERIAL OR AS DIRECTED BY THE CITY OF WINTER GARDEN.
 - THE DISPOSAL OF ANY EXCESS EARTHWORK MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE HIS WORK WITH THE WORK SCHEDULE OF ADJACENT CONTRACTORS AS WELL AS THE STAFF OF THE CITY OF WINTER GARDEN.
 - THE CONTRACTOR SHALL NOTIFY THE CITY OF WINTER GARDEN UTILITY DEPARTMENT 72 HOURS BEFORE COMMENCING WITH CONSTRUCTION.
 - WHERE MINIMUM SEPARATION BETWEEN UTILITIES IS REQUIRED, THE DISTANCE SHALL BE MEASURED FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
 - PVC PIPE AND FITTINGS 4-INCHES THROUGH 15-INCHES SHALL CONFORM TO ASTM D3034, SDR 26.
 - PVC PIPE AND FITTINGS SHALL BE SOLID GREEN IN COLOR.
 - IN AREAS WHERE CONSTRUCTION ACTIVITIES RESTRICT NORMAL ACCESS TO PROPERTIES, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALTERNATE ACCESS ROUTES WHICH ARE SUBJECT TO APPROVAL BY FLORIDA WATER SERVICES.
 - ALL PRACTICAL AND NECESSARY EFFORT SHALL BE TAKEN DURING CONSTRUCTION TO PREVENT UNNECESSARY TREE REMOVAL.
 - THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL EQUIPMENT AND MATERIALS FOR APPROVAL BY THE CITY OF WINTER GARDEN PRIOR TO PROCUREMENT.
 - THE CONTRACTOR SHALL VIDEO THE ENTIRE WORK AREA PRIOR TO COMMENCEMENT OF CONSTRUCTION. ONE COPY OF THE PRE-CONSTRUCTION VIDEO SHALL BE SUBMITTED TO THE CITY OF WINTER GARDEN.
 - PIPE MEASUREMENTS ON THE MAIN "TRUNK" SEWER SHALL BE FROM CENTER TO CENTER OF MANHOLES OR CLEANOUTS, UNLESS OTHERWISE NOTED.
 - PIPE MEASUREMENTS FOR SERVICE LATERALS SHALL BE FROM THE MAIN "TRUNK" SEWER TO THE PROPERTY LINE. THE DEPTH OF THE LATERAL AT THE PROPERTY LINE SHALL BE MEASURED AND RECORDED ON THE RECORD DRAWINGS.
 - TESTING OF GRAVITY SEWER SYSTEMS AND MANHOLES SHALL FOLLOW THE REQUIREMENTS FOUND WITHIN THE SPECIFICATIONS.
 - CONFLICT BETWEEN WATER MAINS, STORM AND REUSE SYSTEMS AND PROPOSED SANITARY SEWER MAINS SHALL BE RESOLVED BY ADJUSTING THE PRESSURE MAINS AS NECESSARY. SEE "UTILITY SEPARATION DETAIL" AND ACCOMPANYING NOTES AS SHOWN ON THE CIVIL DETAIL (CD) SHEETS OF THIS PLAN SET.
 - ALL EXCAVATIONS SHALL BE BACKFILLED AT THE END OF EACH WORK DAY.
 - UTILITY INTERRUPTION SHALL NOT BE PERMITTED UNLESS WRITTEN APPROVAL IS PROVIDED BY THE CITY OF WINTER GARDEN. FOR A SCHEDULED INTERRUPTION OF SANITARY SEWER MAIN FLOW, THE CONTRACTOR SHALL PROVIDE TO THE CITY OF WINTER GARDEN FOR REVIEW A WRITTEN SCHEDULE AS TO THE METHOD AND DURATION OF FLOW INTERRUPTION. BYPASS PUMPING OR OTHER PROCEDURES MAYBE REQUIRED TO MAINTAIN ALL EXISTING SERVICE.
 - THE CITY OF WINTER GARDEN SHALL REVIEW THE SUBMITTAL AND WITHIN A TIMELY MANNER AND SHALL INFORM THE CONTRACTOR REGARDING APPROVAL OR DENIAL OF THEIR REQUEST. IF THEIR REQUEST IS REJECTED BY THE CITY, THE CONTRACTOR MAY RESUBMIT THEIR REQUEST MODIFYING IT TO THE SATISFACTION OF THE ALL CONNECTIONS SHALL BE MADE ONLY ON THE AGREED UPON TIME AND DATE ESTABLISHED IN THE SUBMITTAL.
 - DURING NORMAL SANITARY SEWER MAIN FLOW INTERRUPTION, THE CONTRACTOR SHALL PROVIDE UNINTERRUPTED BY-PASS FLOW AND SHALL PROVIDE ALL EQUIPMENT NECESSARY TO ACCOMPLISH THE SAME IN THE FORM OF, BUT NOT LIMITED TO THE FOLLOWING: POWER, PUMPS, PIPING, APPURTENANT VALVES AND FITTINGS AND/OR SEPTIC TANKER TRUCK PUMPING, HAULING AND DISPOSAL SERVICES.
 - ALL BURIED UTILITY PIPES TO BE ABANDONED IN PLACE SHALL BE CUT, PLUGGED AND FILLED WITH GROUT.
 - IT IS THE INTENT OF THIS CONTRACT FOR THE CONTRACTOR TO MAINTAIN CONTINUOUS RESTORATION BEHIND THE UTILITY WORK ON A DAILY BASIS. NO MORE THAN FIFTY (50) LINEAL FEET OF UNRESTORED LINE WORK SHALL REMAIN AT THE END OF EACH WORK DAY.
- FDOT ROW CONSTRUCTION
- ALL CONSTRUCTION IN THE FDOT ROW SHALL CONFIRM TO THE LATEST EDITIONS OF THE FDOT DESIGN STANDARDS, THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND

- BRIDGE CONSTRUCTION, AND THE FDOT UTILITY ACCOMMODATION MANUAL.
- FDOT 48 HOURS START NOTICE CONTACT PHONE NUMBER 321-319-8100
 - PERMITTEE SHALL NOT BEGIN ANY WORK ALONG THE FDOT RIGHT-OF-WAY UNTIL AN FDOT INSPECTOR IS PRESENT AT THE JOB SITE AND AGREES THAT PROPER PREPARATIONS HAVE BEEN MADE.
 - MOT PER FDOT INDEX 612, 613 & 660.
 - FOURTEEN (14) DAYS PRIOR TO CLOSING A LANE, THE PERMITEE SHALL NOTIFY THE LOIS SYSTEM THE TIME AND LOCATION OF THE NEEDED LANE CLOSURE AND A DESCRIPTION OF WORK BEING DONE. THE UAO SHALL NOT CLOSE ANY LANES UNTIL RECEIVING APPROVAL FROM FDOT. THE UAO IS NOT REQUIRED TO REPORT LANE CLOSURES FOR EMERGENCIES AS DESCRIBED IN 2017 UAM SECTION 2.2.
 - FDOT RESERVES THE RIGHT TO REQUIRE SIGNS AND PAVEMENT MARKINGS TO BE UPDATED/ADDED/REMOVED IN THE FIELD.
 - NO LANE CLOSURES ARE ALLOWED FROM 7:00 AM TO 9:00 AM AND 4:00 PM TO 7:00 PM MONDAY THROUGH FRIDAY

GENERAL REQUIREMENTS FROM CITY OF WINTER GARDEN

- ALL GRAVITY SANITARY PIPE AND FITTING SHALL BE PVC SDR 26. NO D.I.P. WILL BE ALLOWED IN ANY PORTION OF THE SANITARY SEWER SYSTEM
- ALL COMPACTION SHALL BE 98% OF THE MODIFIED PROCTOR MAXIMUM DENSITY (AASHTO T-180)
- AS-BUILT RECORD DRAWINGS SHALL COMPLY WITH CITY OF WINTER GARDEN REQUIREMENTS AVAILABLE ON-LINE.
- ALL STORM (≥12") AND SANITARY LINES (≥6") SHALL BE INSPECTED BY CCTV PRIOR TO COMPLETION.
- WARRANTY PERIOD FOR ANY PUBLIC IMPROVEMENTS, INCLUDING LIFT STATION AND FORCE MAIN, SHALL BE 2 YEARS FROM THE CERTIFICATE OF COMPLETION ISSUANCE.
- THE USE OF HDPE PIPE SHALL MEET ALL CITY OF WINTER GARDEN'S MATERIAL AND INSTALLATION REQUIREMENTS AS SPECIFIED IN THE CITY'S STANDARDS AND SPECIFICATIONS INCLUDING CLASS I BEDDING AND LASER PROFILING (SEE UNDER ONLINE FORMS ON CITY OF WINTER GARDEN'S WEBSITE).

SURVEY NOTES

- LANDS SHOWN HEREON WERE NOT ABSTRACTED BY THE SURVEYOR FOR RIGHTS-OF-WAY AND/OR EASEMENTS OF RECORD OR OWNERSHIP.
- THE LAND DESCRIPTION AND EASEMENTS SHOWN HEREON ARE IN ACCORD WITH THE DESCRIPTION PROVIDED BY THE CLIENT.
- BEARINGS REFER TO ASSUMED N89°32'43"E ALONG THE NORTH PROPERTY LINE
- ALL DISTANCES/ANGLES ARE MEASURED/DEED UNLESS OTHERWISE SHOWN.
- BENCHMARKS REFER TO NAVD 1988 DATUM. SITE BENCH MARKS, N. RIM STRUCTURES.
- FLOOD ZONE: X & AE.
- ONLY VISIBLE IMPROVEMENTS LOCATED
- INTERIOR ELEVATIONS DONE BY OTHERS NOT CHECKED BY THIS FIRM.
- DRAINAGE STRUCTURES COULD NOT BE OPENED SO PIPE SIZES, DIRECTIONS AND INVERTS ARE APPROX.

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No.	Date	Revision

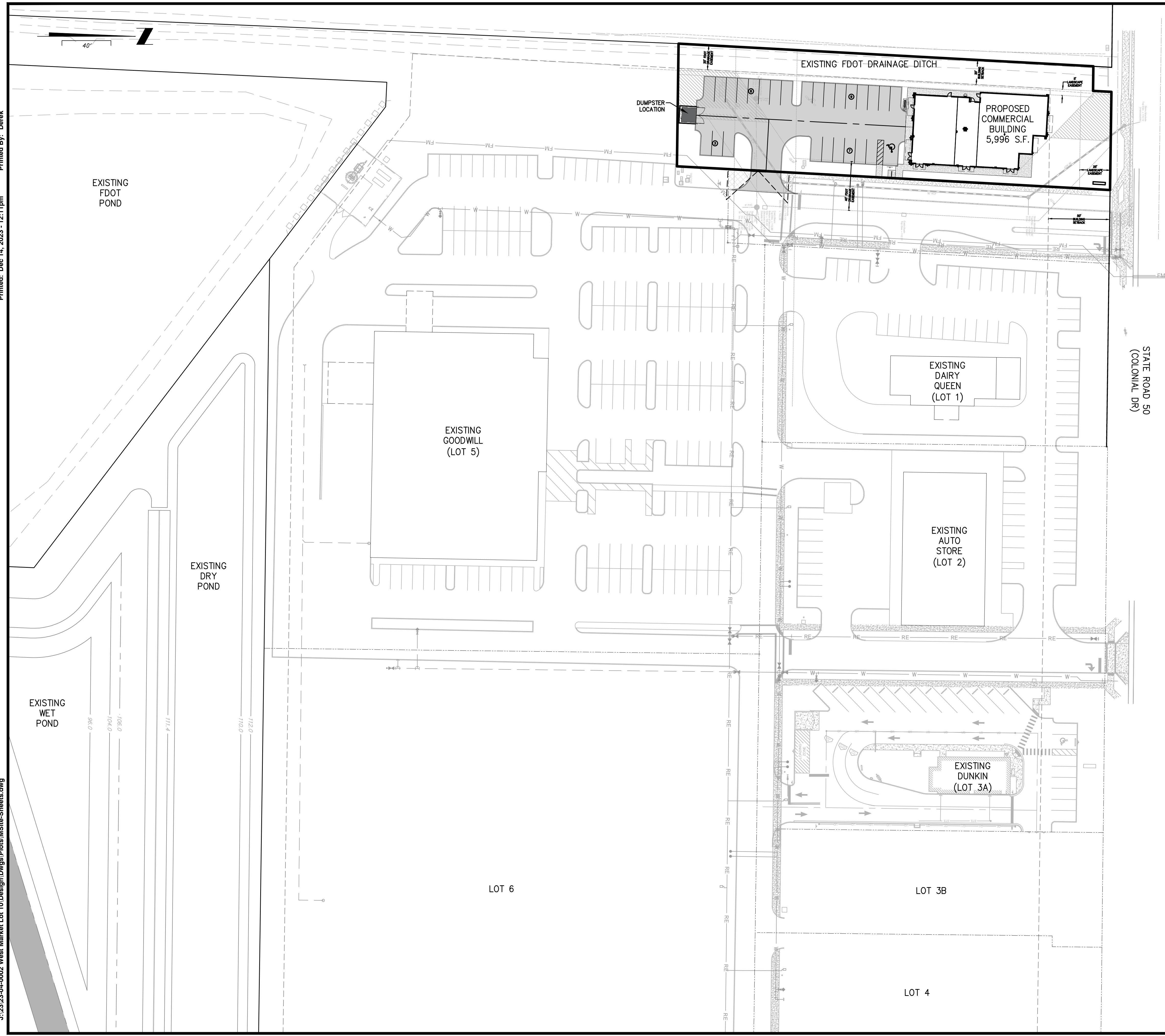
GENERAL NOTES

WEST MARKET LOT 10
WINTER GARDEN, FL
PREPARED FOR
J HEBDEN PARK, LLC

AUTUMN M. HUBSCH
P.E. NUMBER: 72939
Reg. Engineer

Project No.: 23-04-0002	
Designed: AMH	Drawn: DCG
Checked: JEW	O.C.: RCW
Date: DECEMBER 2023	
Scale:	

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SITE DATA

- FUTURE LAND USE: OFFICE/RETAIL (COMMERCIAL)
- ZONING: PCO
- PARCEL ID: 27-22-27-9142-10-000 (PRIVATE PARCEL)
- EXISTING LAND USE: OFFICE/RETAIL (COMMERCIAL)
- PROPOSED LAND USE: OFFICE/RETAIL (COMMERCIAL)
- ADJACENT LAND USE: NORTH & EAST (COMMERCIAL) SOUTH (LOW DENSITY RES.), WEST (COMMERCIAL)
- SITE/PROPERTY AREA: 0.81 ACRE (35,081 SF), PRIVATE PARCEL ONLY
- EXISTING VEGETATION: PROPERTY IS CLEARED
- FLOODPLAIN: FEMA PANEL #12085C0215 F, 9-25-2008, AREAS IN ZONE A, NOT ON SITE PER TOPO
- WETLANDS: NONE ON SITE PER ENVIRONMENTALIST, BIO-TECH REPORT DATED 12-18-2007
- SOILS: 41 (SAMSULA-HONTOON-BASINGER) 44 (SMYRNA) 51 (WABASSO)
- IMPERVIOUS AREA: 70% MAXIMUM ALLOWED = 24,699 SF, PROVIDED 18,990 SF
- OPEN SPACE: 30% MINIMUM REQUIRED = 10,585 SF, PROVIDED 15,804 SF
- LANDSCAPE BUFFERS:

	REQUIRED	PROVIDED
NORTH:	25'	25'
SIDE:	10'	10'
STREET:	6'	6'

BUILDING DATA

- LOT SIZES: 10 35,082 SF 0.81 ac.
- BUILDING AREA: SEE CALCULATIONS THIS SHEET
- FAR: 0.18 PROPOSED
- BUILDING HEIGHT: 35 FEET MAXIMUM
- BUILDING SETBACK REQUIREMENTS:

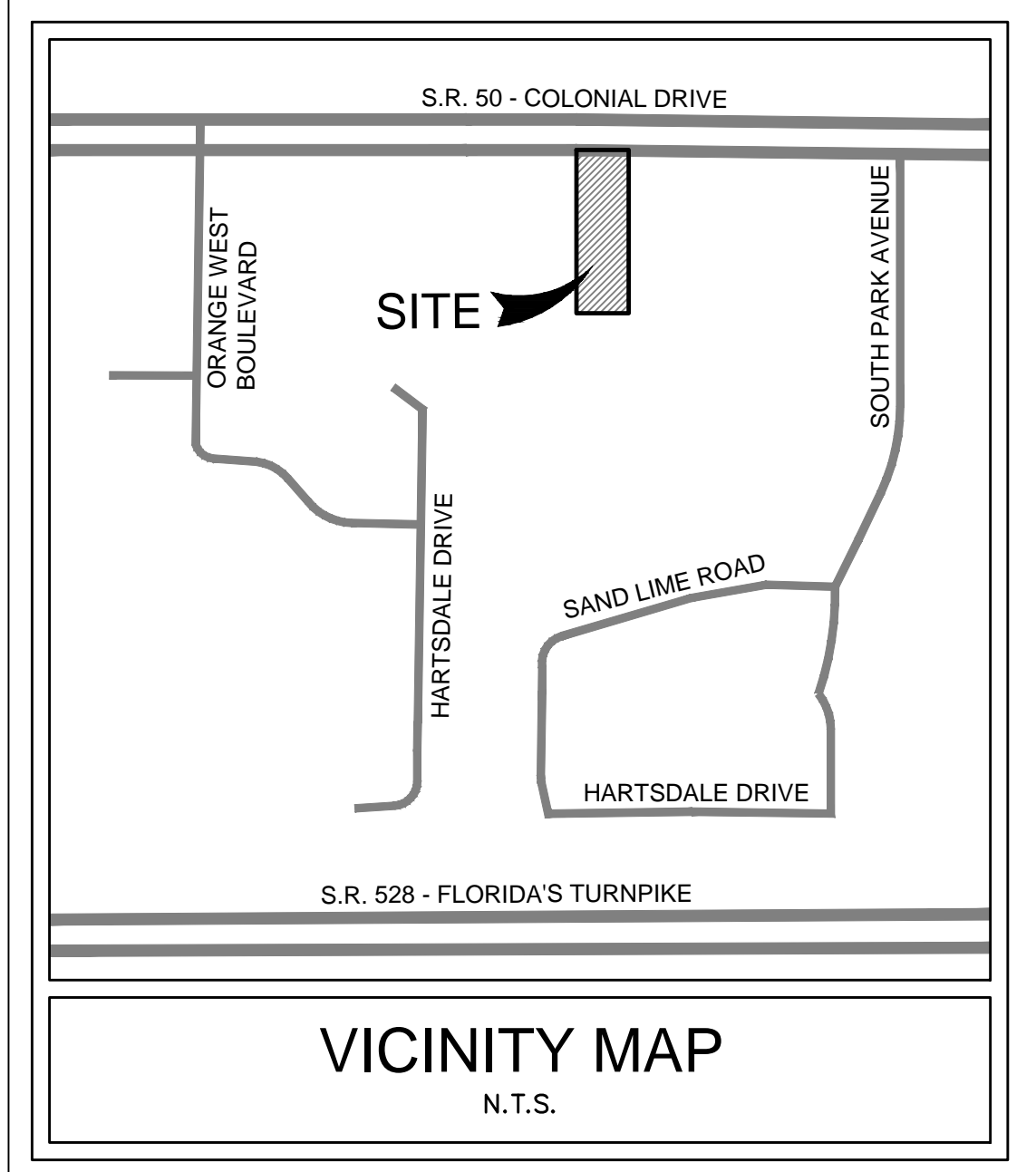
	REQUIRED	PROVIDED
FRONT (NORTH)	40' (50' ABUTTING SR-50)	50'
REAR (SOUTH)	20' (TOWNHOME DEVELOPMENT)	194'
SIDE (EAST)	20' (STAGE COACH)	20'
SIDE (WEST)	20' (RV SALES)	20'
- BUILDING CONSTRUCTION TYPE: IBC = VARIES; NFPA 220 = VARIES

UTILITY DATA

WATER: CITY OF WINTER GARDEN - (407)-656-4111 - EXISTING WATER SERVICE
 FIRE: CITY OF WINTER GARDEN - (407)-656-4111
 SANITARY: CITY OF WINTER GARDEN - (407)-656-4111 - EXISTING SANITARY SERVICE
 REUSE: CITY OF WINTER GARDEN - (407)-656-4111
 STORM WATER: CITY OF WINTER GARDEN, FDOT, ORANGE CO., SJRWMD
 ELECTRIC: DUKE ENERGY
 TELEPHONE: CENTURY LINK
 CABLE: SPECTRUM
 GAS: LAKE APOPKA GAS
 SOLID WASTE: CITY OF WINTER GARDEN

NOTES

- STREETLIGHTING BOTH INTERNALLY AND ON ALL STREET FRONTS IS REQUIRED PURSUANT TO CITY CODE - DARK SKIES LIGHTING IS REQUIRED.
- CERTIFICATES OF OCCUPANCY FOR ANY BUILDING WILL NOT BE ISSUED UNTIL THE CERTIFICATE OF COMPLETION HAS BEEN ISSUED BY THE CITY ENGINEER AND THE FINAL PLAT HAS BEEN APPROVED AND RECORDED.
- ALL DUMPSTERS SHALL BE ENCLOSED AND SHALL PROVIDE 12' MINIMUM INSIDE CLEARANCE (EACH WAY INCLUSIVE OF BOLLARDS), AND ACCESS BY SOLID WASTE VEHICLES. COORDINATE ADDITIONAL REQUIREMENTS (COMPACTORS, ETC.) WITH PUBLIC SERVICES DEPARTMENT, SOLID WASTE DIVISION.



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 Florida Registry 3650 L.A. Number: LC26000311

MASTER SITE PLAN

WEST MARKET LOT 10
 WINTER GARDEN, FL
 PREPARED FOR
 J HEBDEN PARK, LLC

AUTUMN M. HUBSCH
 P.E. NUMBER: 72539
 Reg. Engineer

Project No.: 23-04-0002
 Designed: AMH Drawn: DCG
 Checked: JEW O.C.: RCW
 Date: DECEMBER 2023
 Scale: 1" = 40'

Sheet **4**

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NOTES:

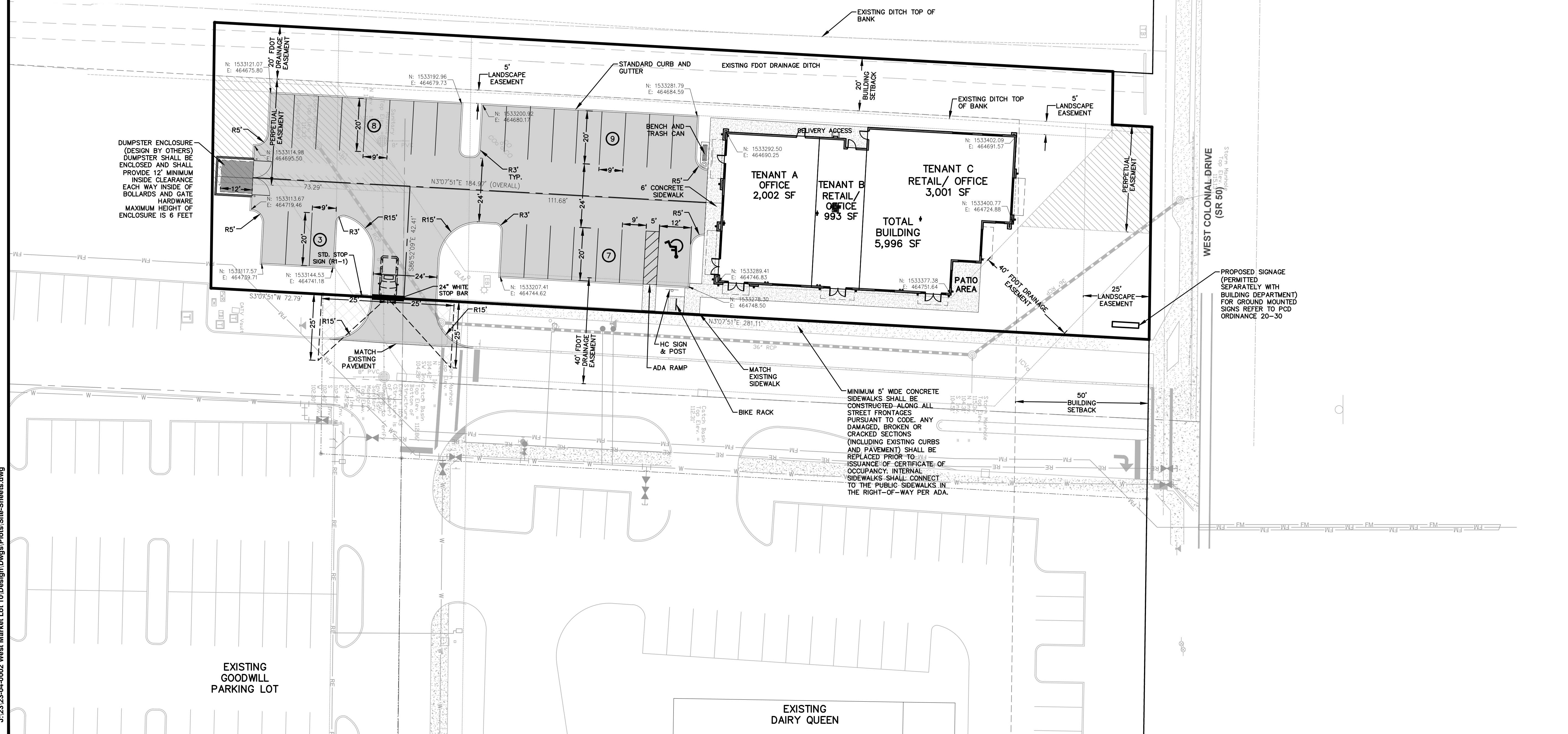
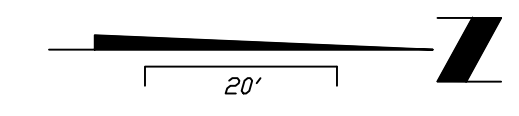
- SEE SHEET NUMBER 2 FOR GENERAL NOTES AND LEGEND.
- ALL DIMENSIONS ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL PROVIDE CURB RAMPS AT ALL PLACES WHERE SIDEWALK TERMINATES INTO PAVEMENT. CURB RAMPS SHALL COMPLY WITH THE LATEST ADA CODE PER FDOT INDEX 304.
- STOP BARS SHALL BE LOCATED 4.0' MIN. FROM CROSSWALKS AND / OR CURB RAMPS.
- ALL ELEMENTS THAT ARE PLACES OF PUBLIC ACCOMMODATIONS AND COMMERCIAL FACILITIES ON THE SITE (INCLUDING ACCESSIBLE ROUTES AND PARKING) SHALL MEET THE REQUIREMENTS OF "FLORIDA AMERICANS WITH DISABILITIES ACCESSIBILITY IMPLEMENTATION ACT", 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND 2012 FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION AND THE FAIR HOUSING ACT, WHEN APPLICABLE.
- ALL WORK SHALL CONFORM TO CITY OF WINTER GARDEN STANDARDS AND SPECIFICATIONS.
- FENCING SHALL MEET ALL CITY REQUIREMENTS FOR HEIGHT, TYPE, ETC. CHAIN LINK FENCING, IF USED, SHALL BE VINYL COATED PER CODE.
- THE CITY OF WINTER GARDEN WILL INSPECT PRIVATE SITE IMPROVEMENTS ONLY TO THE EXTENT THAT THEY CONNECT TO CITY OWNED/MAINTAINED SYSTEMS (ROADWAYS, DRAINAGE, UTILITIES, ETC.). IT IS THE RESPONSIBILITY OF THE OWNER AND DESIGN ENGINEER TO ENSURE THAT PRIVATELY OWNED AND MAINTAINED SYSTEMS ARE CONSTRUCTED TO THE INTENDED SPECIFICATIONS. THE CITY IS NOT RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF PRIVATELY OWNED SYSTEMS, TO INCLUDE, BUT NOT BE LIMITED TO, ROADWAYS, PARKING LOTS, DRAINAGE, STORMWATER PONDS OR ON-SITE UTILITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR THE NOTIFICATION, LOCATION AND PROTECTION OF ALL UTILITIES THAT MAY EXIST WITHIN THE PROJECT LIMITS.
- ANY SIGNS, SCREEN WALLS OR RETAINING WALLS SHALL REQUIRE A SEPARATE PERMIT FROM THE BUILDING DEPARTMENT.
- ALL COMPACTION SHALL BE 98% OF THE MODIFIED PROCTOR MAXIMUM DENSITY (ASHTO T-180).
- AS-BUILT RECORD DRAWINGS SHALL COMPLY WITH CITY OF WINTER GARDEN REQUIREMENTS AVAILABLE ONLINE.
- IF THERMOPLASTIC PIPE IS USED IT SHALL MEET ALL CITY MATERIAL AND INSTALLATION REQUIREMENTS AS SPECIFIED IN THE CITY'S STANDARDS & SPECIFICATIONS INCLUDING CLASS I BEDDING, HP POLYPROPYLENE PIPE (NOT HDPE OR N-12), LASER PROFILING, INSTALLATION PER ASTM D2321, ETC.

SITE TABULATION		
DESCRIPTION	BUILDING SQ. FT.	IMPERVIOUS AREA
BUILDING 1 (1 STORY)	5,996 SF	18,990 SF (0.44 AC)
TOTAL	5,996 SF	18,990 SF (0.44 AC) 55%

TOTAL SITE AREA = 35,082 SF (0.80 AC)
 ZONING = C-2
 IMPERVIOUS SURFACE RATIO = 55%
 FLOOR AREA RATIO = 0.18

PARKING TABULATION						
DESCRIPTION	UNIT QTY.	REQ. PARKING RATIO	REQUIRED PARKING ADA	PROVIDED PARKING ADA		
OFFICE/ RETAIL	5,996 SF	3 SPACE / 1,000 SF FLOOR AREA	18	1	26	1
TOTAL:			18	1	26	1

POST-DEVELOPMENT IMPERVIOUS:		POST-DEVELOPMENT PERVIOUS:	
PAVEMENT/SW	12,995 S.F. (0.30 Ac.) 37%	OPEN SPACE /	
BUILDING	5,996 S.F. (0.14 Ac.) 18%	LANDSCAPE AREAS	16,092 S.F. (0.37 Ac.)
TOTAL:	18,990 S.F. (0.44 Ac.) 55%		



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No.	Date	Revision

SITE PLAN

WEST MARKET LOT 10
 WINTER GARDEN, FL
 PREPARED FOR
J HEBDEN PARK, LLC

AUTAWN M. HUBSCH
 P.E. NUMBER: 72939
 Reg. Engineer

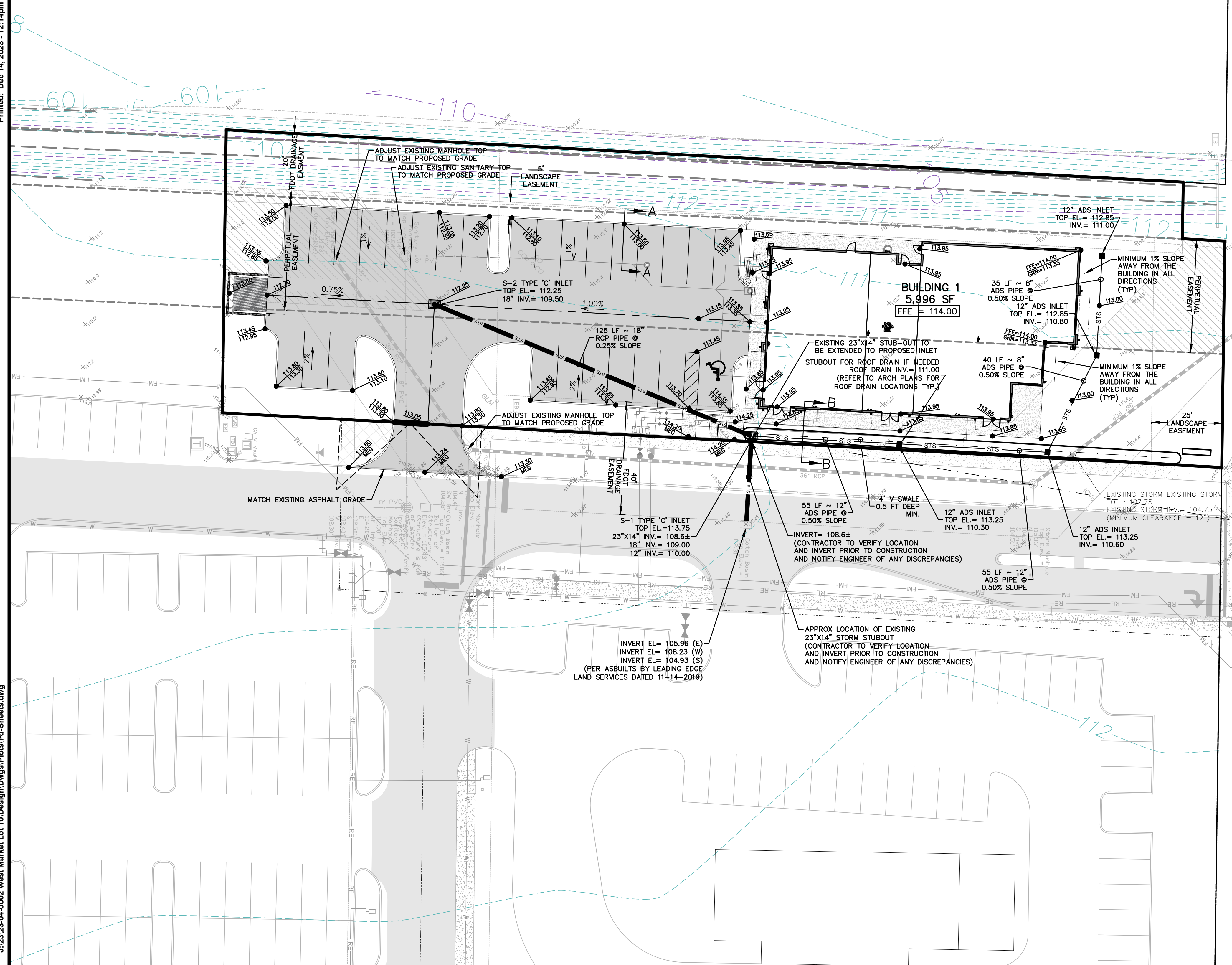
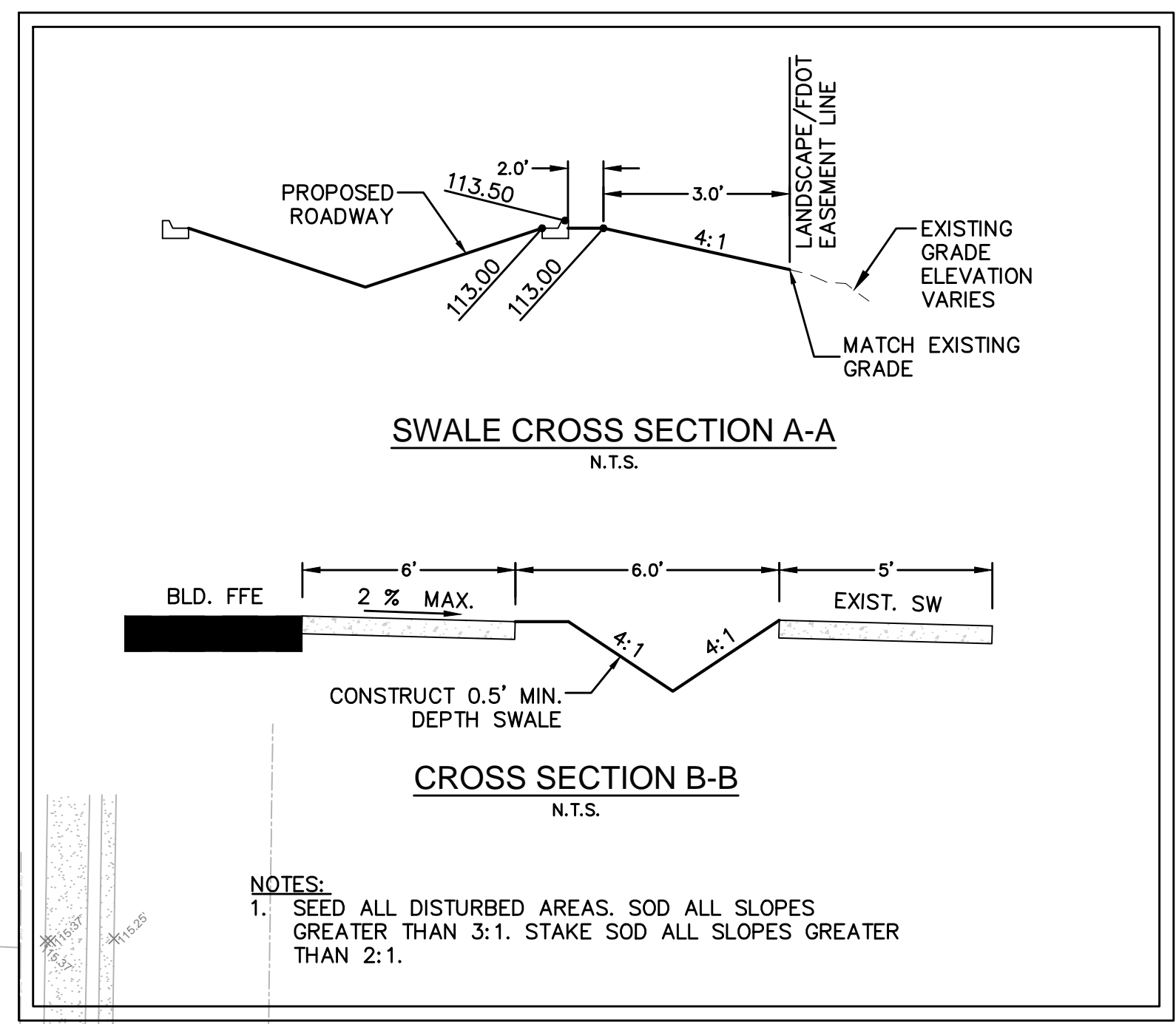
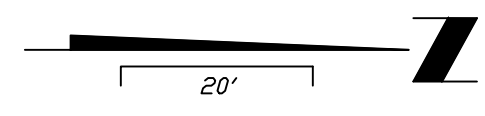
Project No.: 23-04-0002
 Designed: AMH
 Checked: AMH
 Date: DECEMBER 2023
 Scale: 1" = 20'

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- NOTES:**
- SEE SHEET NUMBER 3 FOR GENERAL NOTES AND LEGEND.
 - CONTRACTOR SHALL NOT SCALE PLAN BUT SHALL REFER TO SITE PLAN FOR ALL LINE DIMENSIONS.
 - THE CONTRACTOR SHALL PROVIDE 20' MIN. UNDERDRAIN STUBOUTS ON EACH SIDE OF ALL STORM INLETS. FINAL DETERMINATION OF LIMITS OF UNDERDRAIN WILL BE MADE BY GEOTECHNICAL ENGINEER BASED ON TEST HOLE OBSERVATIONS DURING ROADWAY CONSTRUCTION.
 - ALL PIPE LENGTHS SHOWN HEREON ARE APPROXIMATE AND ARE TAKEN FROM THE APPROXIMATE CENTER OF GRATE/RING AND COVER TO THE BACK OF THE MITERED END SECTIONS.
 - AS-BUILT RECORD DRAWINGS SHALL COMPLY WITH CITY OF WINTER GARDEN REQUIREMENTS AVAILABLE ONLINE.
 - ALL STORM (>12") AND SANITARY (>6") SHALL BE INSPECTED BY CCTV PRIOR TO COMPLETION.



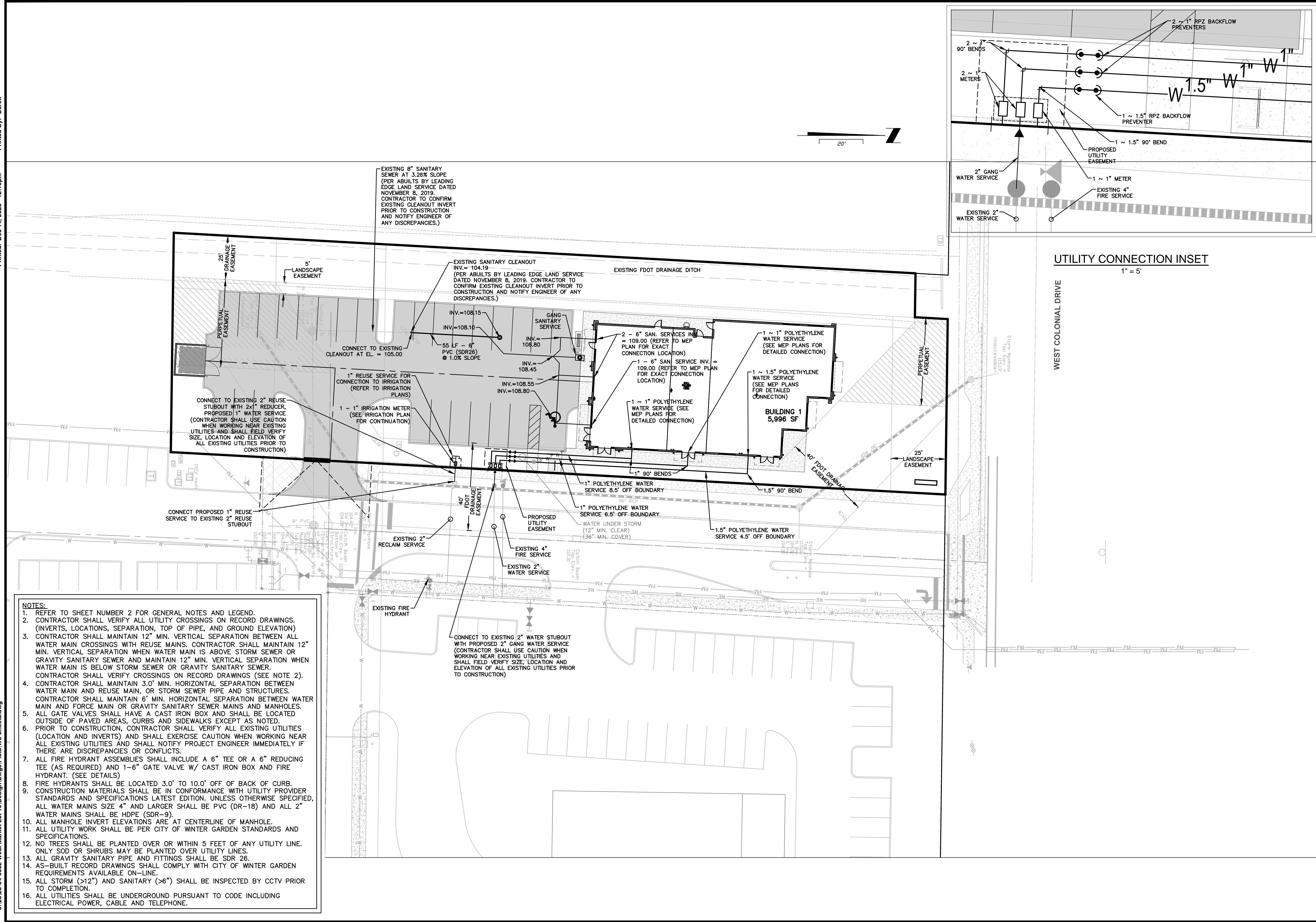
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PAVING AND DRAINAGE PLAN

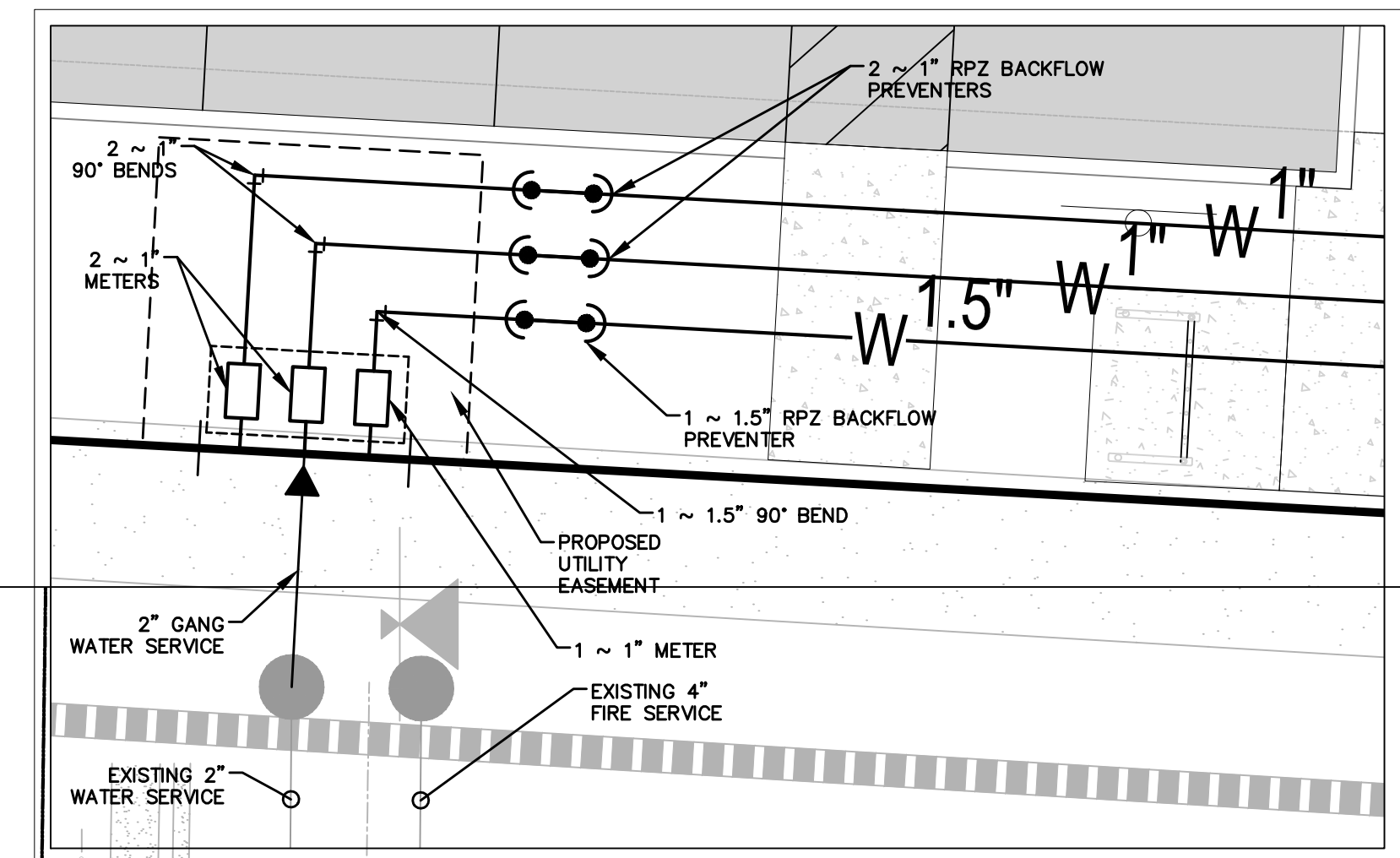
WEST MARKET LOT 10
WINTER GARDEN, FL
PREPARED FOR
J HEBDEN PARK, LLC

AUTAWN M. HUBSCH
P.E. NUMBER: 72939
Reg. Engineer

Project No.:	23-04-0002
Designed:	AMH
Checked:	JEW
Date:	DECEMBER 2023
Scale:	1" = 20'



- NOTES:**
- REFER TO SHEET NUMBER 2 FOR GENERAL NOTES AND LEGEND.
 - CONTRACTOR SHALL VERIFY ALL UTILITY CROSSINGS ON RECORD DRAWINGS. (INVERTS, LOCATIONS, SEPARATION, TOP OF PIPE, AND GROUND ELEVATION)
 - CONTRACTOR SHALL MAINTAIN 12" MIN. VERTICAL SEPARATION BETWEEN ALL WATER MAIN CROSSINGS WITH REUSE MAINS. CONTRACTOR SHALL MAINTAIN 12" MIN. VERTICAL SEPARATION WHEN WATER MAIN IS ABOVE STORM SEWER OR GRAVITY SANITARY SEWER AND MAINTAIN 12" MIN. VERTICAL SEPARATION WHEN WATER MAIN IS BELOW STORM SEWER OR GRAVITY SANITARY SEWER. CONTRACTOR SHALL VERIFY CROSSINGS ON RECORD DRAWINGS (SEE NOTE 2).
 - CONTRACTOR SHALL MAINTAIN 3.0' MIN. HORIZONTAL SEPARATION BETWEEN WATER MAIN AND REUSE MAIN, OR STORM SEWER PIPE AND STRUCTURES. CONTRACTOR SHALL MAINTAIN 6' MIN. HORIZONTAL SEPARATION BETWEEN WATER MAIN AND FORCE MAIN OR GRAVITY SANITARY SEWER MAINS AND MANHOLES.
 - ALL GATE VALVES SHALL HAVE A CAST IRON BOX AND SHALL BE LOCATED OUTSIDE OF PAVED AREAS, CURBS AND SIDEWALKS EXCEPT AS NOTED.
 - PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES (LOCATION AND INVERTS) AND SHALL EXERCISE CAUTION WHEN WORKING NEAR ALL EXISTING UTILITIES AND SHALL NOTIFY PROJECT ENGINEER IMMEDIATELY IF THERE ARE DISCREPANCIES OR CONFLICTS.
 - ALL FIRE HYDRANT ASSEMBLIES SHALL INCLUDE A 6" TEE OR A 6" REDUCING TEE (AS REQUIRED) AND 1-6" GATE VALVE W/ CAST IRON BOX AND FIRE HYDRANT. (SEE DETAILS)
 - FIRE HYDRANTS SHALL BE LOCATED 3.0' TO 10.0' OFF OF BACK OF CURB.
 - CONSTRUCTION MATERIALS SHALL BE IN CONFORMANCE WITH UTILITY PROVIDER STANDARDS AND SPECIFICATIONS LATEST EDITION, UNLESS OTHERWISE SPECIFIED, ALL WATER MAINS SIZE 4" AND LARGER SHALL BE PVC (DR-18) AND ALL 2" WATER MAINS SHALL BE HDPE (SDR-9).
 - ALL MANHOLE INVERT ELEVATIONS ARE AT CENTERLINE OF MANHOLE.
 - ALL UTILITY WORK SHALL BE PER CITY OF WINTER GARDEN STANDARDS AND SPECIFICATIONS.
 - NO TREES SHALL BE PLANTED OVER OR WITHIN 5 FEET OF ANY UTILITY LINE. ONLY SOD OR SHRUBS MAY BE PLANTED OVER UTILITY LINES.
 - ALL GRAVITY SANITARY PIPE AND FITTINGS SHALL BE SDR 26.
 - AS-BUILT RECORD DRAWINGS SHALL COMPLY WITH CITY OF WINTER GARDEN REQUIREMENTS AVAILABLE ON-LINE.
 - ALL STORM (>12") AND SANITARY (>6") SHALL BE INSPECTED BY CCTV PRIOR TO COMPLETION.
 - ALL UTILITIES SHALL BE UNDERGROUND PURSUANT TO CODE INCLUDING ELECTRICAL POWER, CABLE AND TELEPHONE.



UTILITY CONNECTION INSET
1" = 5'

Connelly & Wicker Inc.
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 Florida Registry 3650 L.A. Number: LC26000311

No.	Date	Revision

WATER AND SEWER PLAN

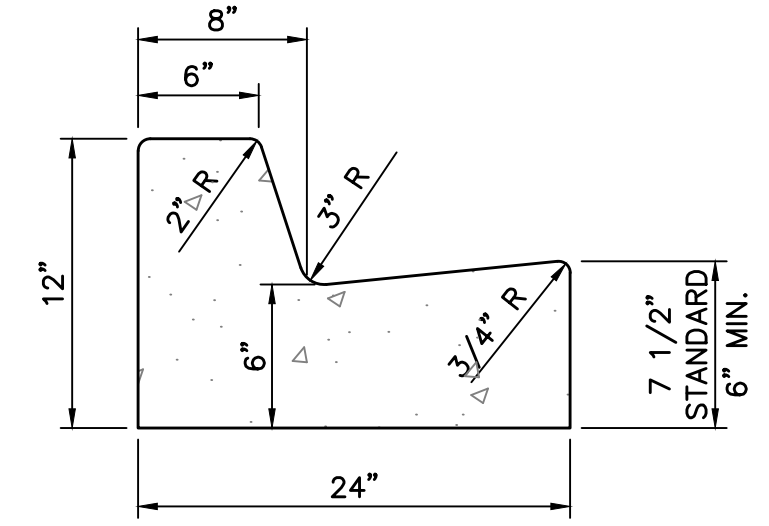
WEST MARKET LOT 10
 WINTER GARDEN, FL
 PREPARED FOR
 J HEBDEN PARK, LLC

AUTUMN M. HUBSCH
 P.E. NUMBER: 72939
 Reg. Engineer

Project No.: 23-04-0002

Designed: AMH	Drawn: DCG
Checked: JEW	RCW

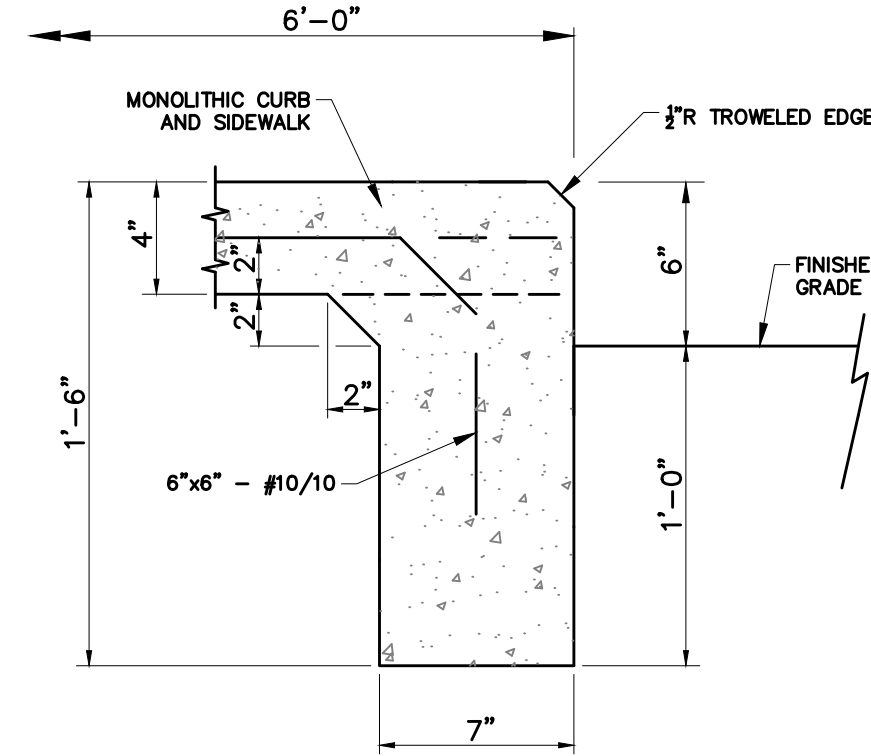
Date: DECEMBER 2023
 Scale: 1" = 20'



NOTE: WHEN USED ON HIGH SIDE OF ROADWAY, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT.

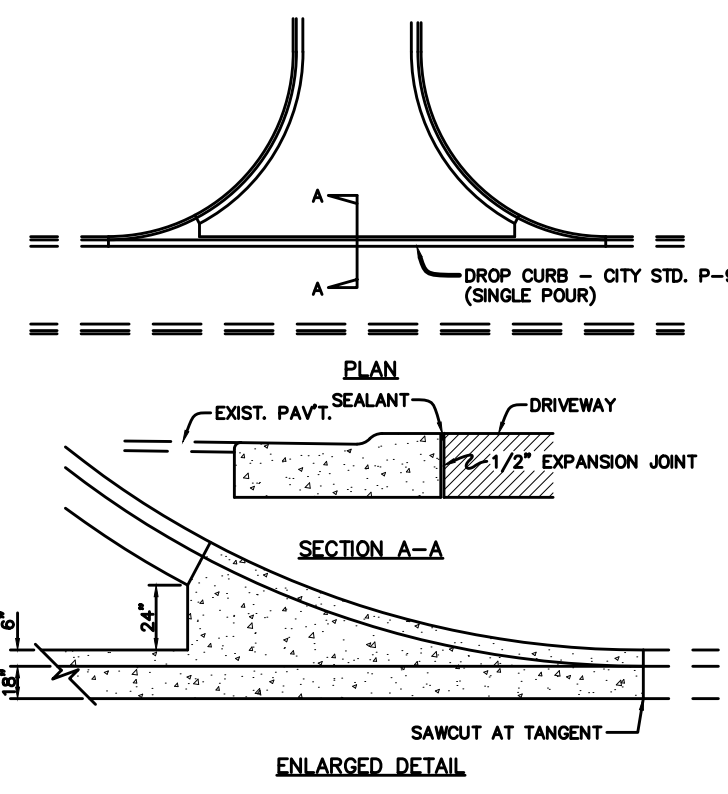
CURB AND GUTTER NOTES:
1. MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE LATEST FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. CONCRETE SHALL BE CLASS 1 CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI.
3. WHEN USED ON THE HIGH SIDE OF ROADWAY SECTIONS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT. WHERE THIS CONDITION IS ENCOUNTERED, THE FRONT FACE VERTICAL DIMENSION SHALL REMAIN AS SHOWN FOR NORMAL SECTIONS SHOWN HEREON.

TYPE "F" CURB & GUTTER
N.T.S.

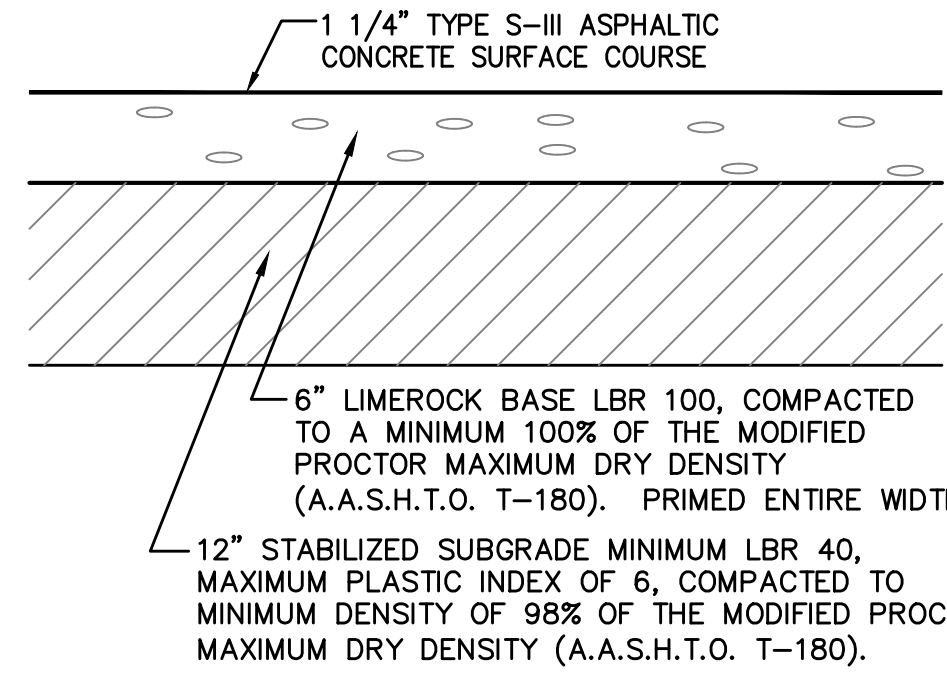


NOTES:
1. PROVIDE TROWELED JOINTS IN SIDEWALK EQUALLY SPACED AT INTERVALS APPROX. EQUAL TO THE SIDEWALK WIDTH.
2. PROVIDE 1/2" EXPANSION JOINT WITH PRE MOLDED EXPANSION JOINT FILLER AT ALL INTERSECTIONS, STRUCTURES OR BUILDINGS AND AT A MAXIMUM SPACING OF 40 FEET.

MONOLITHIC CURB & SIDEWALK DETAIL
N.T.S.

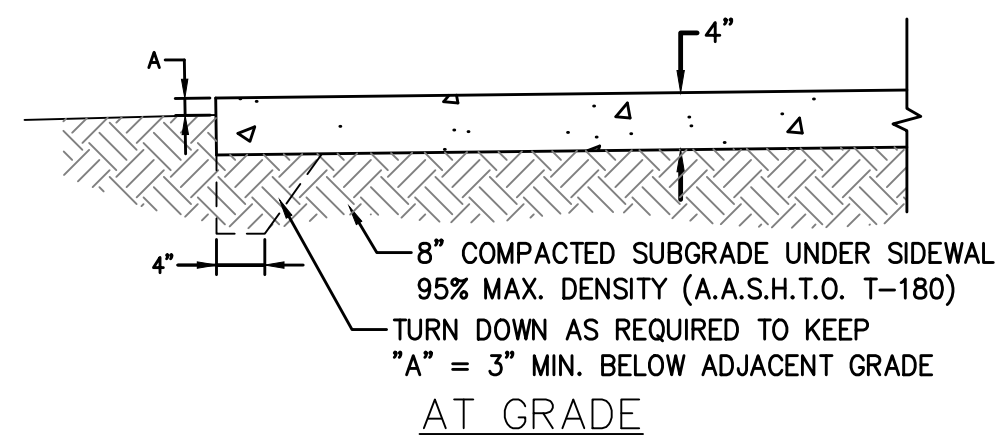


TYPICAL VALLEY CURB DETAIL
N.T.S.



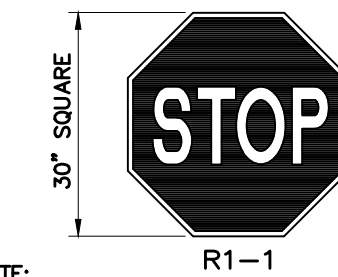
NOTES:
1. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED.
2. SOIL ANALYSIS MAY INDICATE THE NEED FOR THICKER BASE COURSES THAN THOSE HEREIN. THE PAVEMENT THICKNESS SHOWN HEREIN ARE NOT INTENDED TO BE ABSOLUTE, BUT ARE PRELIMINARY CRITERIA AND MAY BE MODIFIED TO ACCOMMODATE THE BEARING CAPACITY OF VARIOUS SUBGRADES.
3. ALL ASPHALTIC CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 331 AND/OR 333, FDOT STANDARD SPECIFICATIONS, LATEST EDITION.
4. THE ASPHALTIC CONCRETE PAVEMENT CONSTRUCTION SHALL MEET THE REQUIREMENTS SPECIFIED IN THE CITY OF JACKSONVILLE LAND DEVELOPMENT CODE SECTION 3.3.1 (ROADWAY PAVEMENT REQUIREMENTS).

TYPICAL PAVEMENT SECTION
N.T.S.



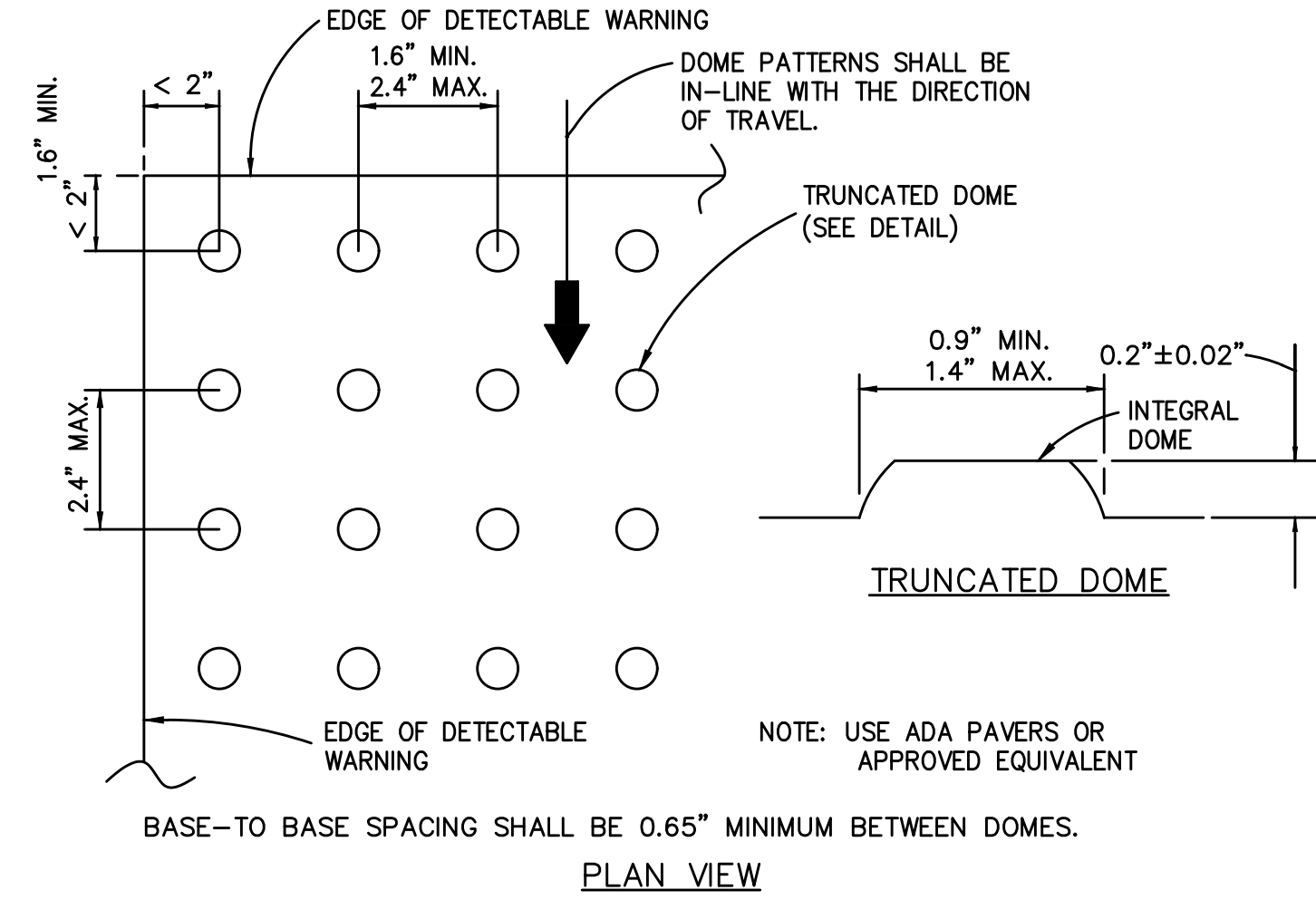
NOTES:
1. CONSTRUCT STRAIGHT JOINTS WITH FACE PERPENDICULAR TO SURFACE OF CONCRETE. TRAVERSE JOINTS SHALL BE AT RIGHT ANGLES TO CENTERLINE UNLESS OTHERWISE INDICATED ON PLANS.
2. PROVIDE EXPANSION JOINTS AT 100' INTERVAL MAXIMUM SPACING ON CENTER.
3. PROVIDE EXPANSION JOINTS FILLER FOR JOINTS ABUTTING CURBS, CATCH BASINS, MANHOLES, INLETS STRUCTURES, WALKS AND OTHER FIXED OBJECTS UNLESS OTHERWISE INDICATED ON PLANS.
4. EXTEND JOINTS FILLER FULL WIDTH AND DEPTH OF JOINT, AND 1/2" BELOW FINISHED SURFACE. PLACE SEALANT OVER JOINT FILLER PER MANUFACTURERS RECOMMENDATIONS.
5. USE PREMOLDED ASPHALT-IMPREGNATED FIBERBOARD, 1/2" THICK CONFORMING TO ASTM D1751.
6. CONTRACTION JOINT SHALL BE SAW CUT (1/4" WIDE BY 1" DEEP).
7. FINISHED SURFACE FOR CONCRETE SIDEWALK SHALL BE GRAY CONCRETE WITH LIGHT BROOM FINISH PERPENDICULAR TO LINE OF TRAFFIC.
8. PROVIDE CRACK CONTROL JOINTS @ (SAME AS WIDTH) O.C.
9. PROVIDE 16" STRIP SOD ADJACENT TO ALL EDGES OF SIDEWALK, CURB AND PAVEMENT AREAS.
10. CONCRETE COMPRESSION STRENGTH 3000 P.S.I. @ 28 DAYS
11. SIDEWALK TO BE CONSTRUCTED WITH SLOPES COMPLYING TO WITH LATEST ADA CODE AND FDOT INDEX 304. SIDEWALK MAX VERTICAL SLOPE OF 5.0% AND MAX CROSS SLOPE OF 2.0%

CONCRETE WALK
N.T.S.



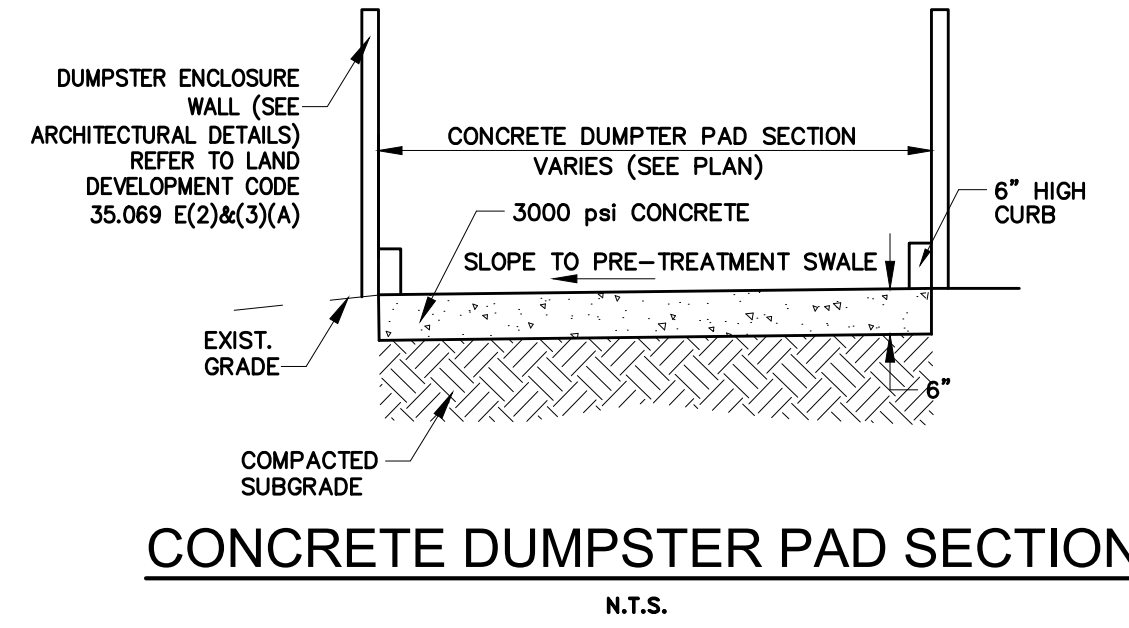
NOTE:
THE STOP SIGN SHALL BE OCTAGON WITH WHITE MESSAGE AND BORDER ON A RED BACKGROUND.
THE POSTS AND BRACKETS WILL BE PER FDOT STANDARD INDEX 11860 AND 11861.

STOP SIGN DETAIL
N.T.S.

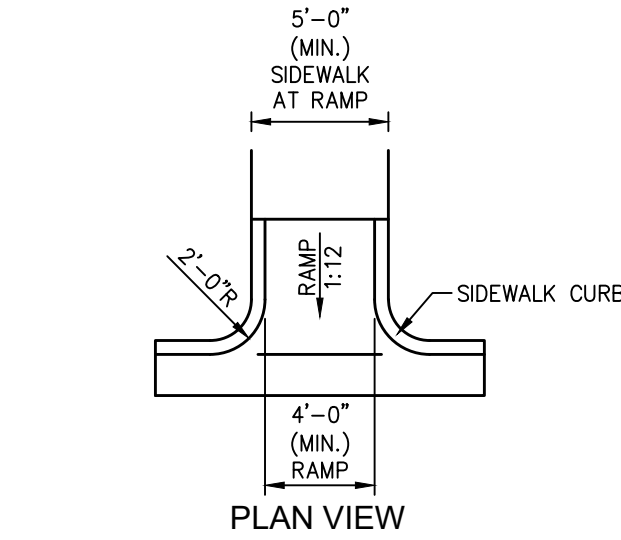
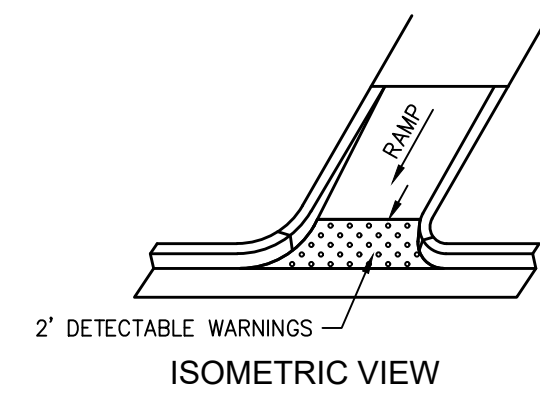


ALL SIDEWALK CURB RAMPS SHALL HAVE DETECTABLE WARNING SURFACES THAT EXTEND THE FULL WIDTH OF THE RAMP AND IN THE DIRECTION OF TRAVEL 24" FROM THE BACK OF CURB

CURB RAMP DETECTABLE WARNING
N.T.S.

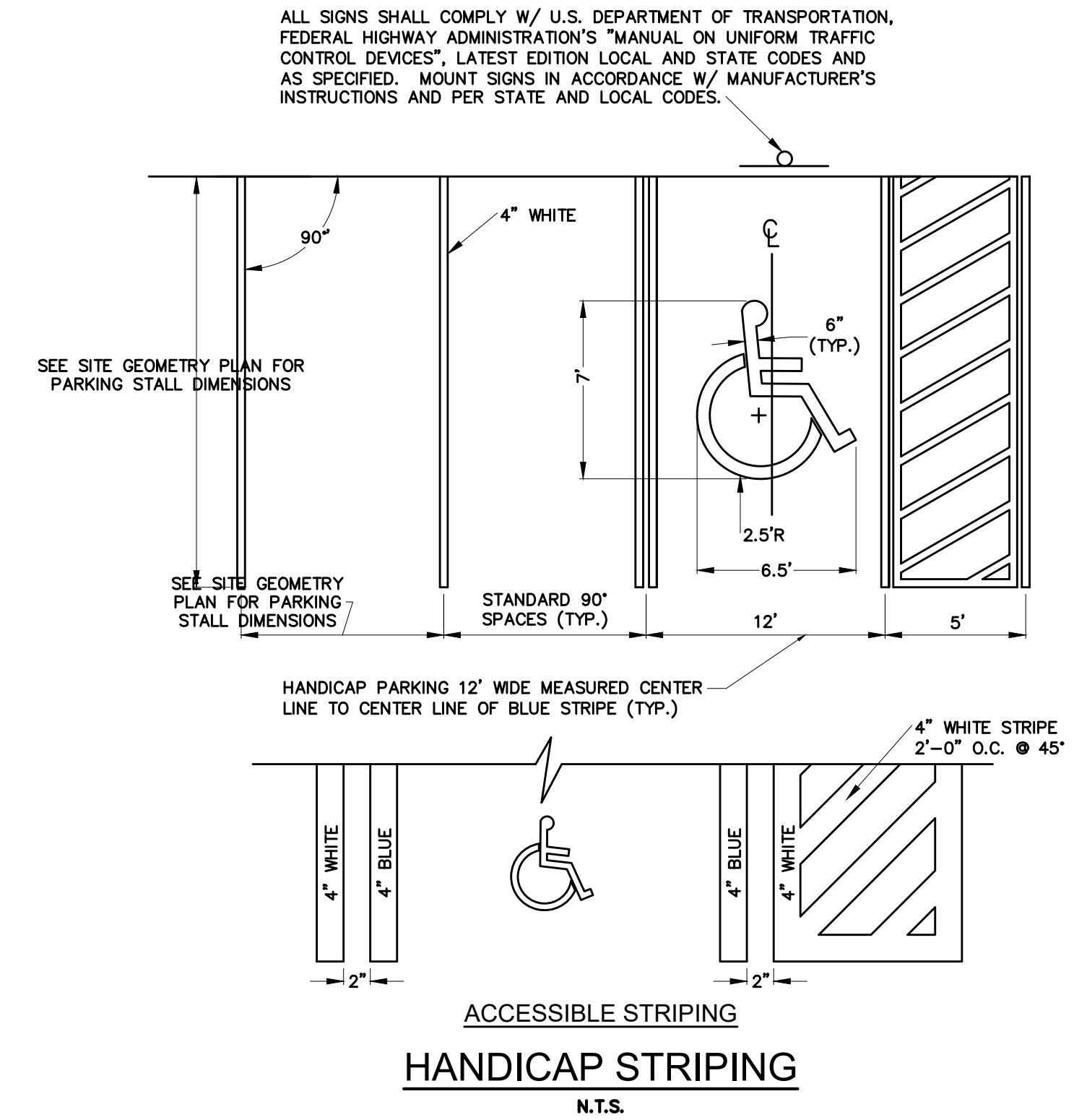


CONCRETE DUMPSTER PAD SECTION
N.T.S.

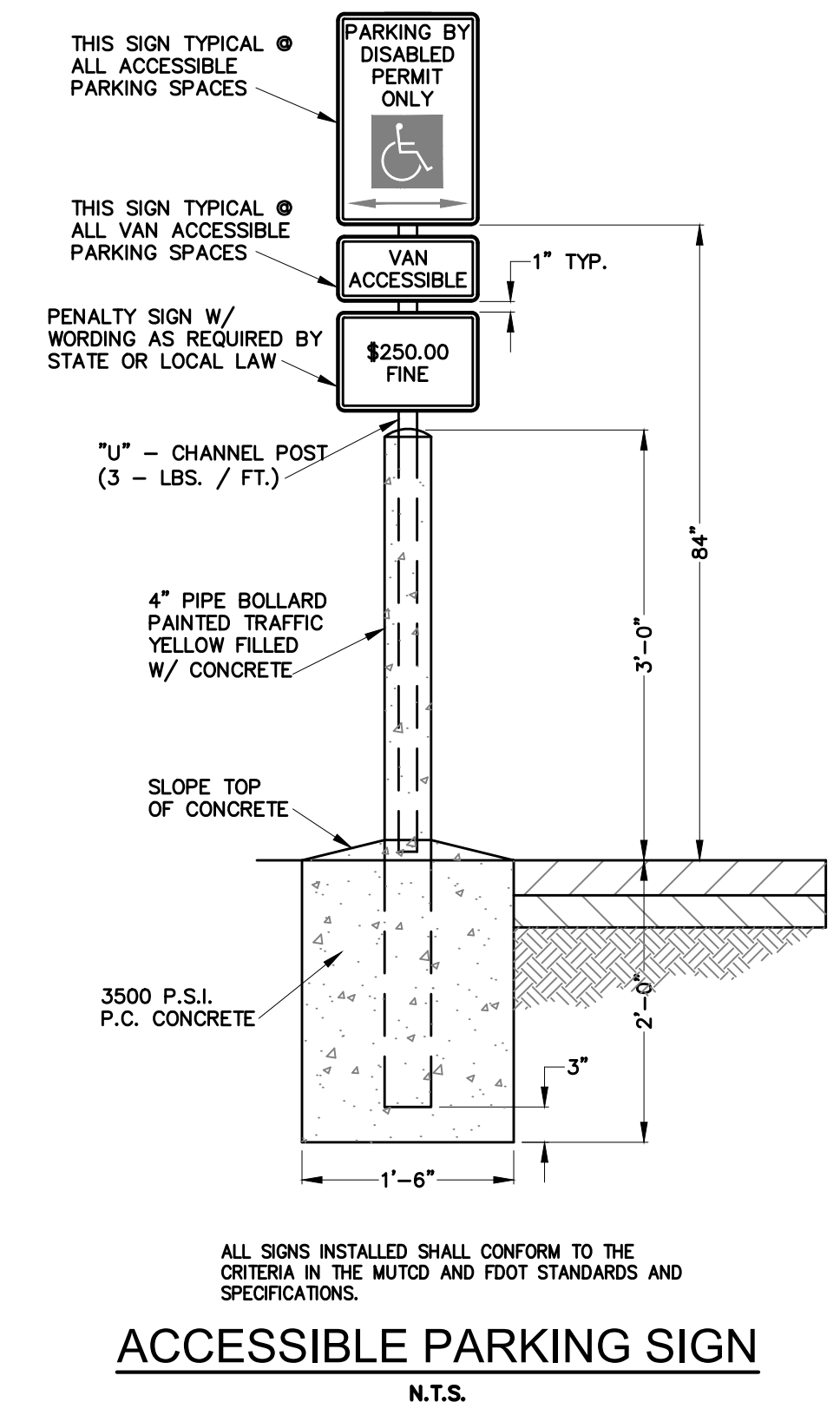


NOTES:
1. THIS DETAIL IS FOR INFORMATIONAL PURPOSES ONLY, SEE FDOT INDEX 304 FOR COMPLETE NOTES AND DETAILS

FDOT INDEX 304 CURB RAMP DETAIL
N.T.S.



HANDICAP STRIPING
N.T.S.



ACCESSIBLE PARKING SIGN
N.T.S.

Table with columns: No., Date, Revision

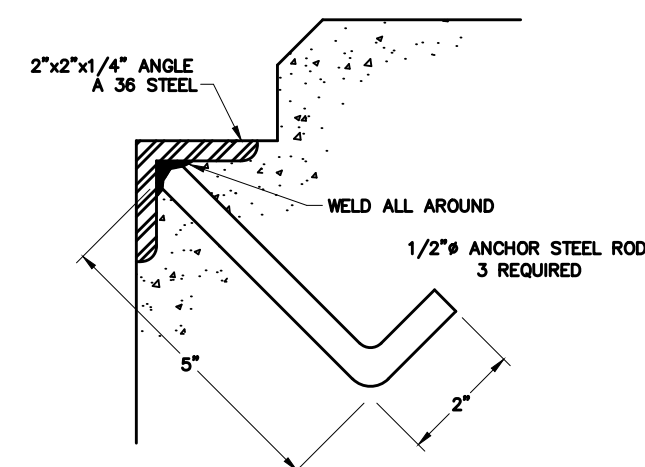
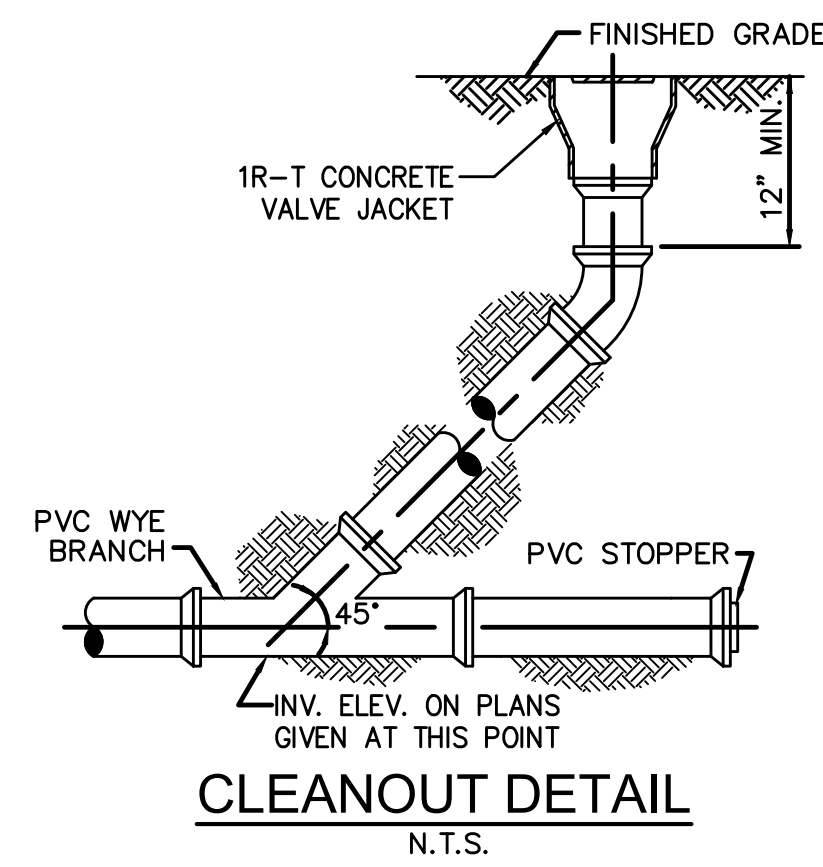
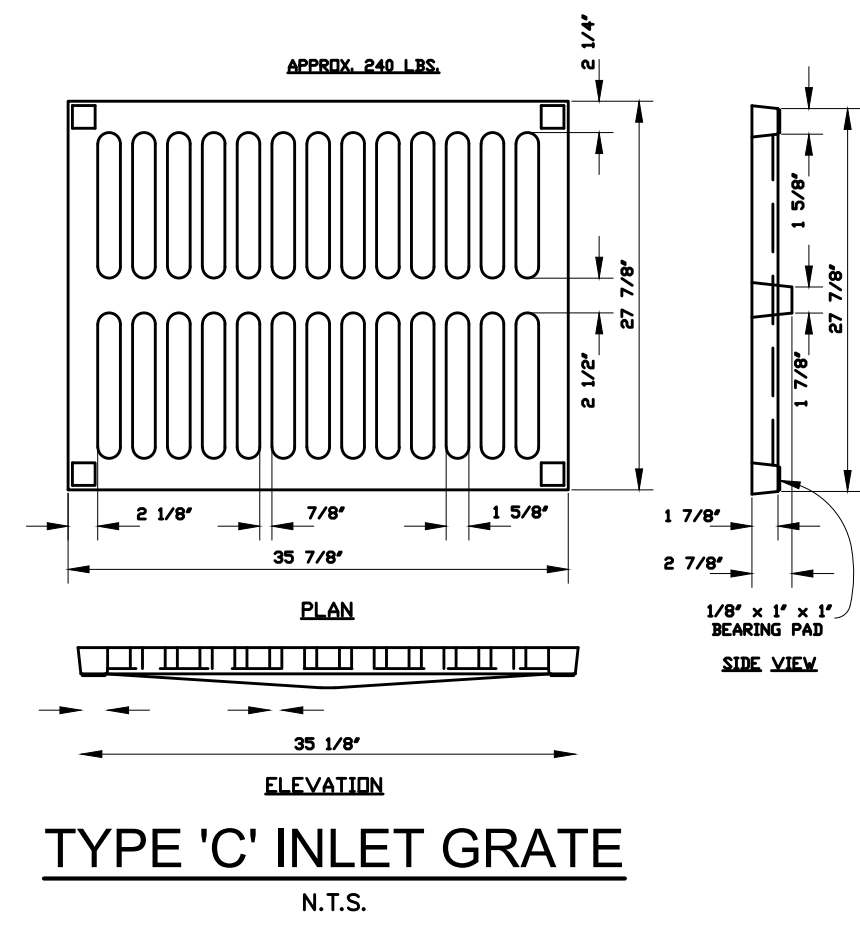
PAVING AND DRAINAGE DETAILS

WEST MARKET LOT 10
WINTER GARDEN, FL
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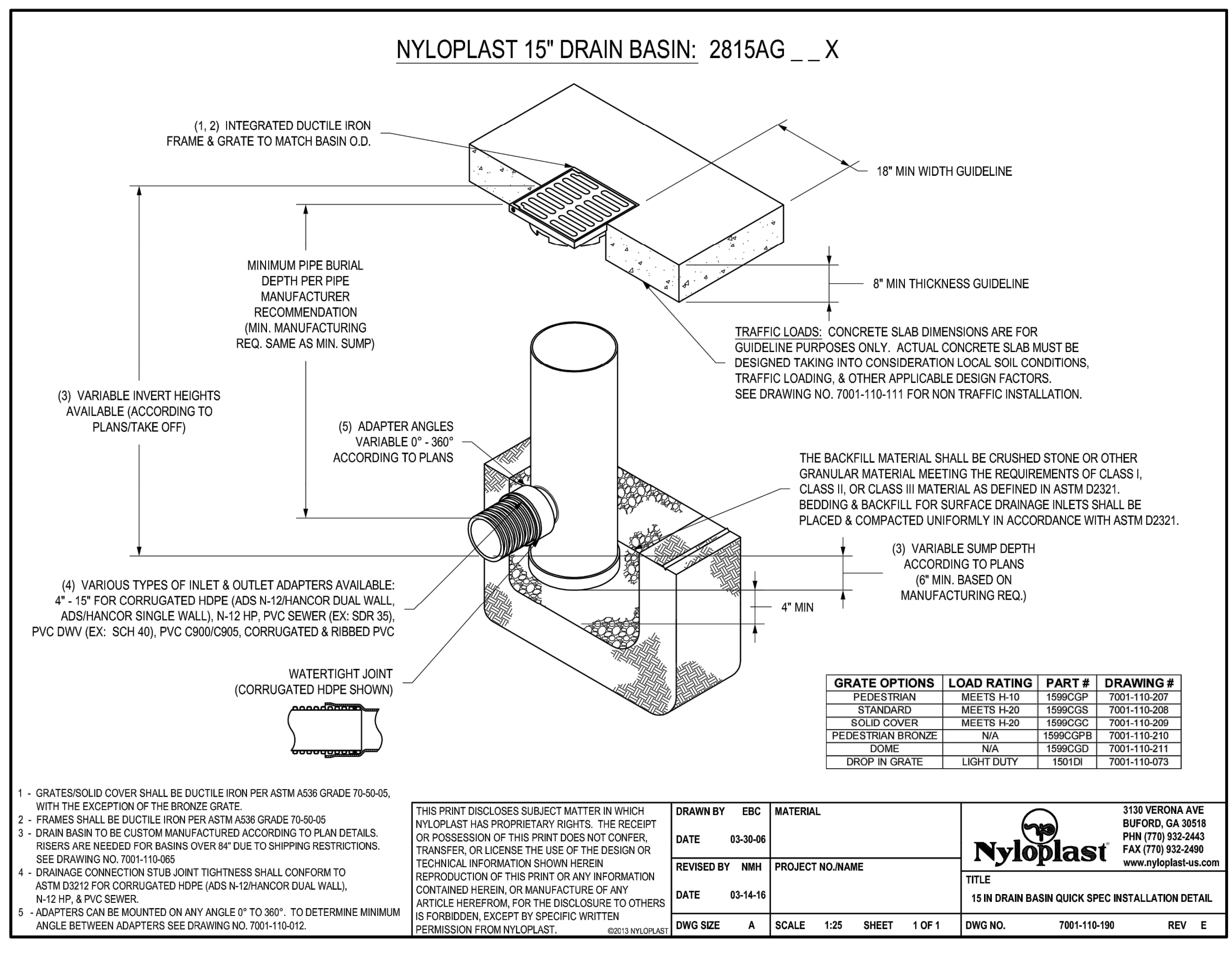
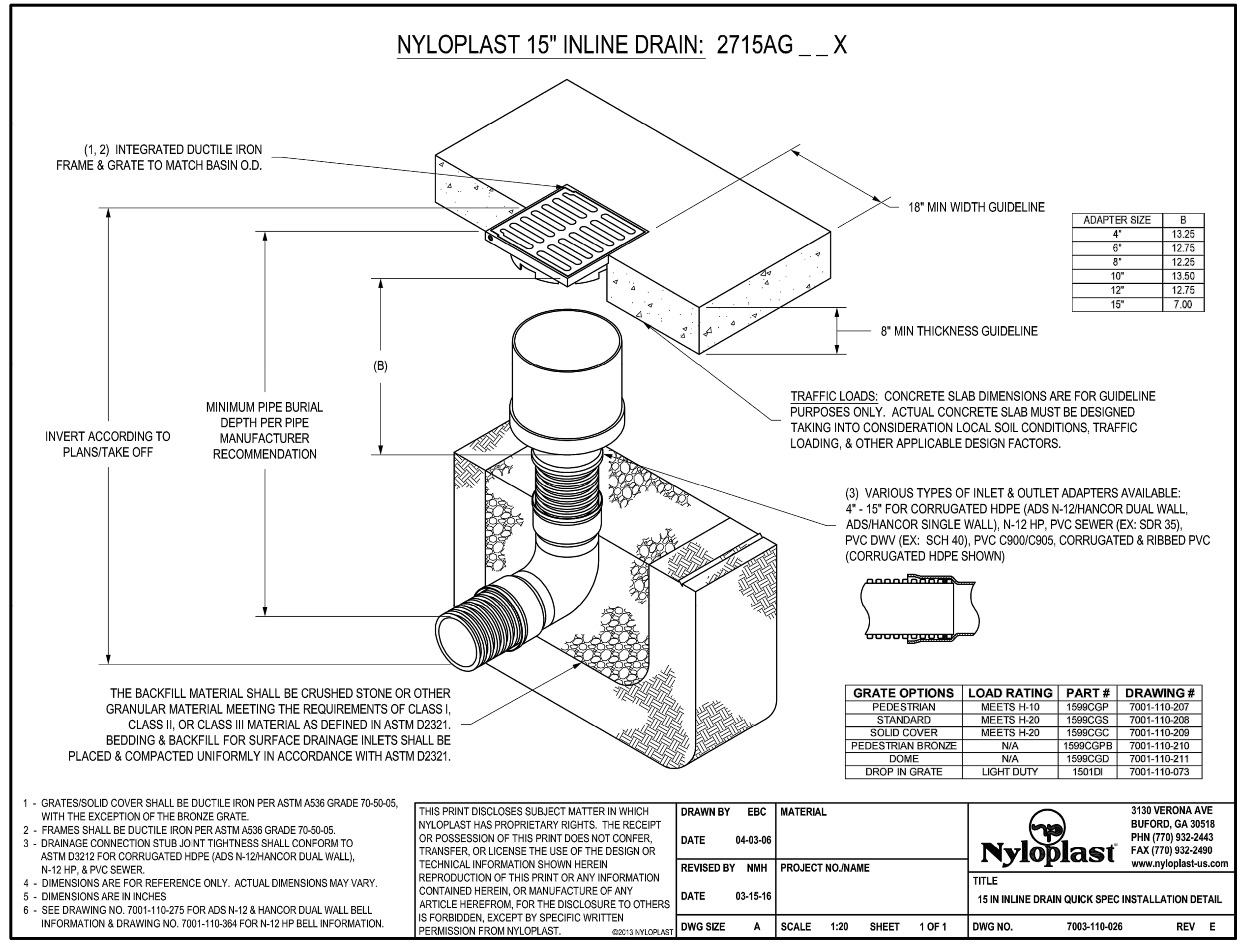
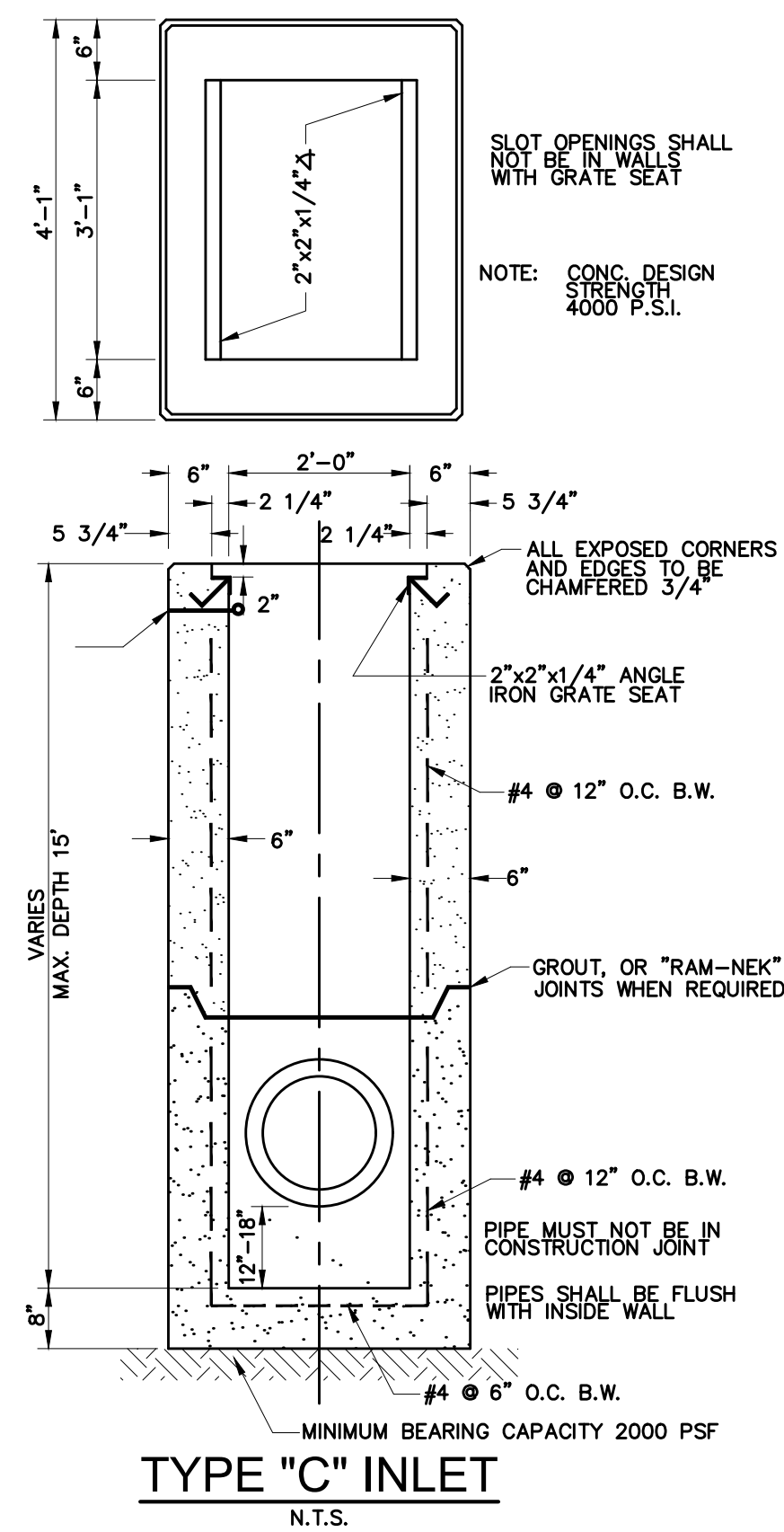
AUTUMN M. HUBSCH
P.E. NUMBER: 72839
Reg. Engineer

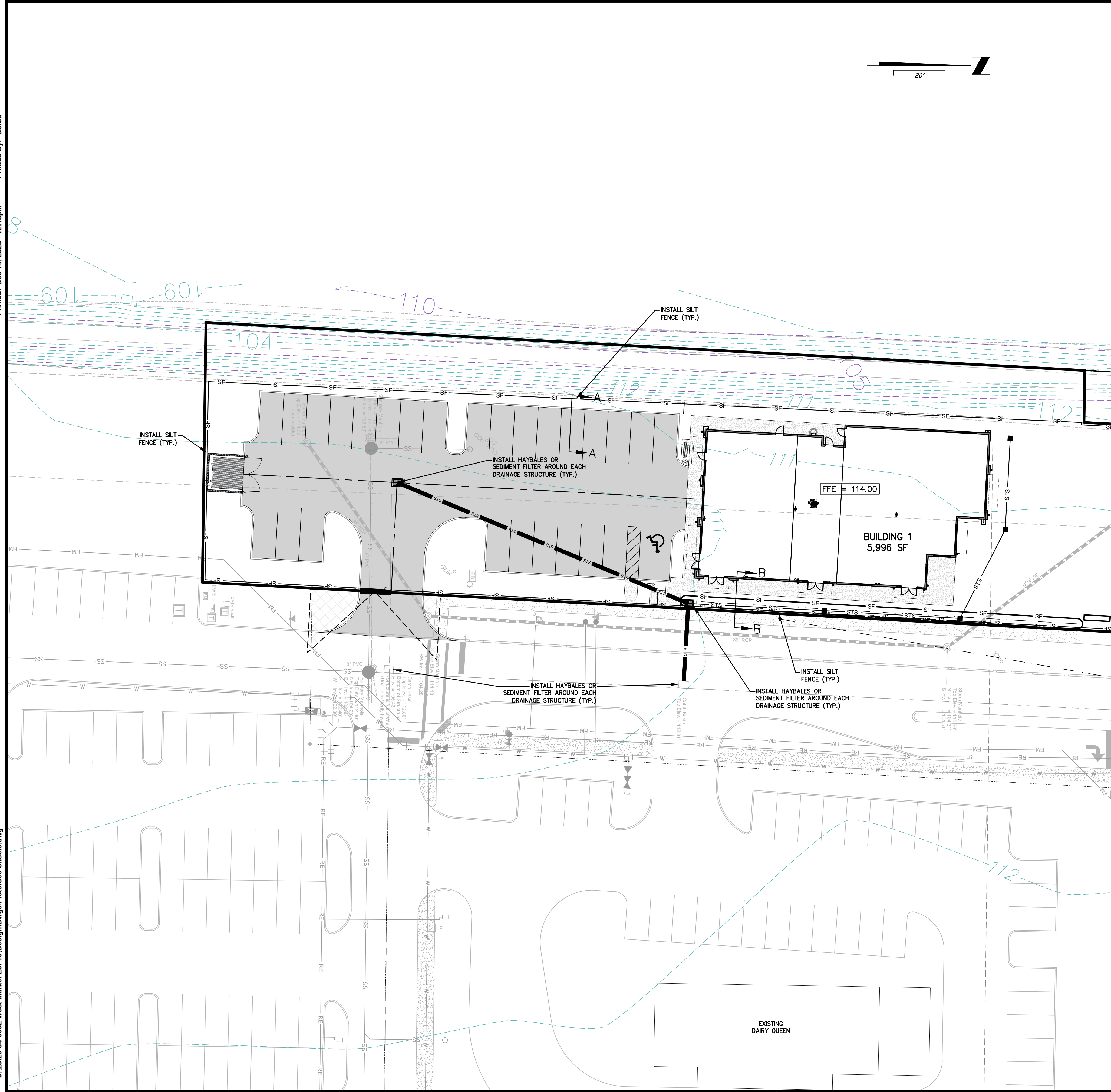
Project No.: 23-04-0002
Designed: AMH
Checked: JEW
Date: DECEMBER 2023
Scale: N/A

Drawn: DCG
O.C.: RCW



GRATE SEAT DETAIL FOR TYPE "C" INLET
N.T.S.





- NOTES:**
1. SEE SHEET NUMBER 2 FOR GENERAL NOTES AND LEGEND.
 2. REFER TO SHEET NUMBER 2 FOR EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.
 3. CONTRACTOR SHALL PROVIDE COIR BALES AT ALL DEWATERING SUMPS.
 4. CONTRACTOR SHALL INSTALL COIR BALES OR SEDIMENT FILTER AROUND EACH INLET.
 5. SILT FENCE, COIR BALES AND OTHER ELEMENTS SHOWN HEREON ARE GRAPHICAL REPRESENTATIONS AND ARE NOT MEANT TO BE EXACT. GENERALLY, THESE OBJECTS ARE INSTALLED OUTSIDE LIMITS OF UPLAND BUFFERS, WITHIN PROJECT BOUNDARY AND OUTSIDE LIMITS OF CONSERVATION AREAS AND JURISDICTIONAL WETLANDS. IT IS UP TO THE CONTRACTOR TO LOCATE ALL UPLAND BUFFERS AND WETLANDS PRIOR TO CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL PLACE THESE ELEMENTS AS CLOSE AS PRACTICAL WITHOUT DISTURBING UPLAND BUFFERS, ADJACENT PROPERTIES AND/OR WETLAND / CONSERVATION AREAS.
 6. PER THE LAND DEVELOPMENT CODE 4.01.04.D EXPOSED SOILS SHALL IMMEDIATELY BE SODDED OR SEEDDED.

LEGEND

	CLEARING LIMITS
	SILT FENCE
	TREE PROTECTION
	FLOATING TURBIDITY BARRIER
	CLEARING AREA
	WETLAND
	UPLAND BUFFER
	COIR BALE

WEST COLONIAL DRIVE

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 Florida Registry 3650 L.A. Number: LC26000311

No.	Date	Revision

SEDIMENT AND EROSION CONTROL PLAN

WEST MARKET LOT 10
 WINTER GARDEN, FL
 PREPARED FOR
 J HEBDEN PARK, LLC

AUTUMN M. HUBSCH
 P.E. NUMBER: 72539
 Reg. Engineer

Project No.: 23-04-0002
 Designed: AMH
 Drawn: DCG
 Checked: JEW
 O.C.: RCW
 Date: DECEMBER 2023
 Scale: 1" = 20'

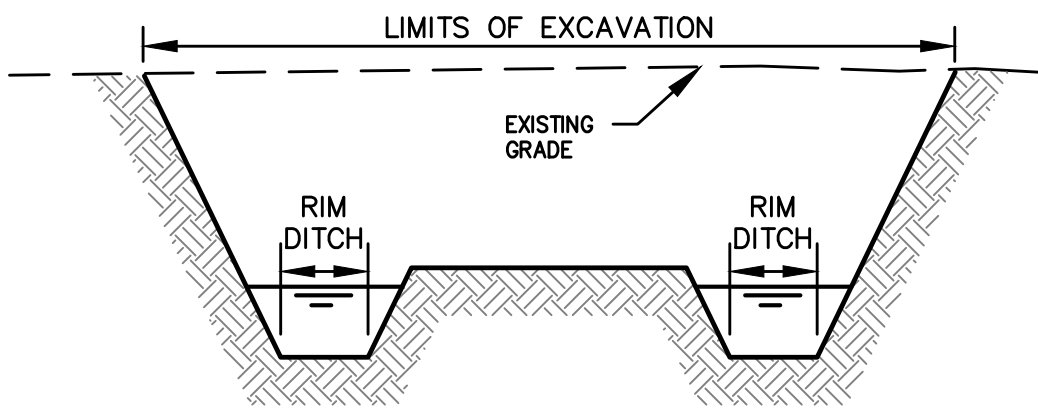
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SEDIMENT AND EROSION CONTROL NOTES

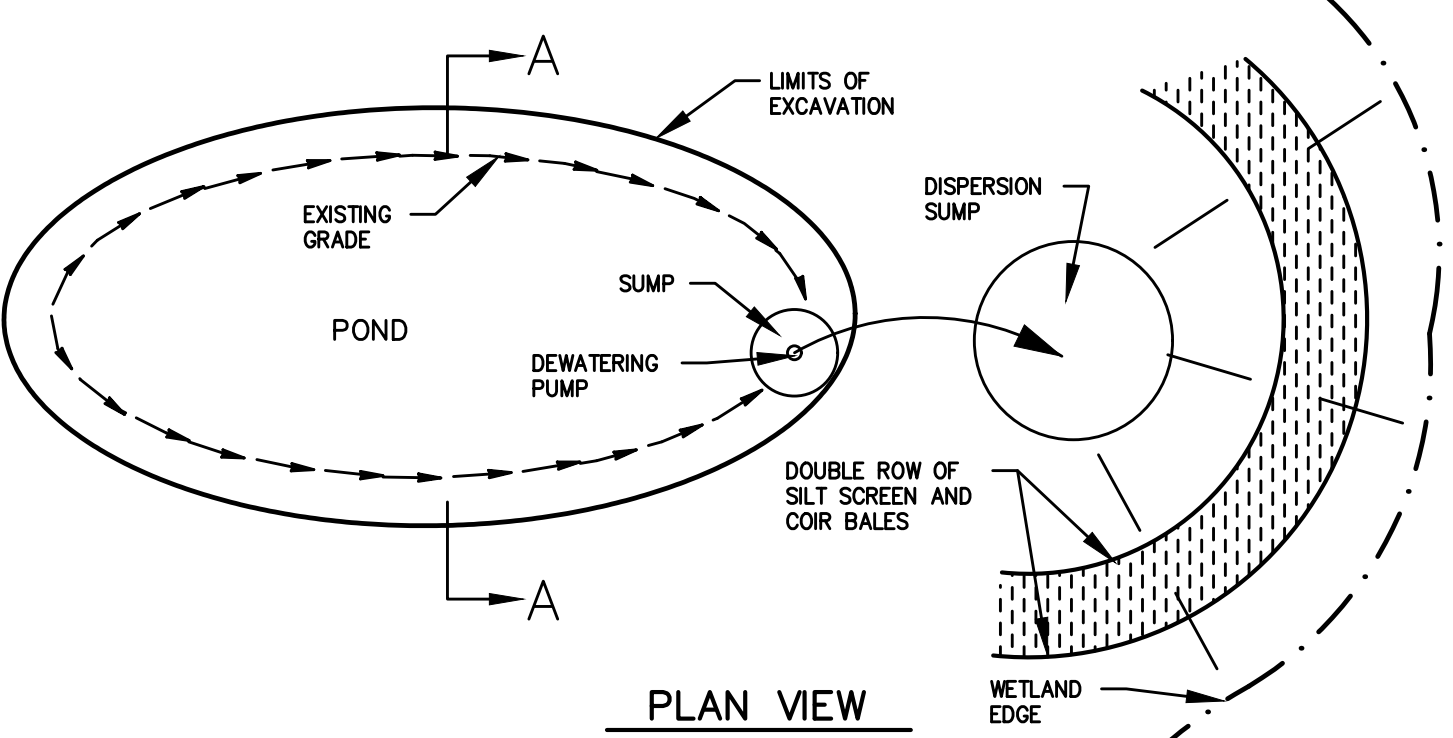
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REUSABLE ON-SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AND SWALES AT COMPLETION OF CONSTRUCTION.
- THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
- ADDITIONAL PROTECTION - ON-SITE PROTECTION IN ADDITION TO THE ABOVE MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNSEEN CONDITIONS OR ACCIDENTS.
- CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
- WIRE MESH SHALL BE LAID OVER THE DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF 1 FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2-INCH OPENINGS SHALL BE USED. IF MORE THAN ONE STRIP OF MESH IS REQUIRED, THE STRIPS SHALL BE OVERLAPPED.
- FOOT NO. 1 COARSE AGGREGATE SHALL BE PLACED OVER THE WIRE MESH AS INDICATED ON SEDIMENT FILTER DETAIL. (SEE DETAIL, THIS SHEET). THE DEPTH OF STONE SHALL BE AT LEAST 12 INCHES OVER THE ENTIRE INLET OPENING. THE STONE SHALL EXTEND BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES.
- IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONES MUST BE PULLED AWAY FROM THE INLET, CLEANED AND REPLACED.
- BALES SHALL BE EITHER WIRE-BOUND OR STRING-TIED WITH THE BINDINGS ORIENTED AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES.
- BALES SHALL BE PLACED LENGTHWISE IN A SINGLE ROW SURROUNDING THE INLET, WITH THE ENDS OF ADJACENT BALES PRESSED TOGETHER.
- THE FILTER BARRIER SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 4 INCHES. AFTER THE BALES ARE STAKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER.
- EACH BALE SHALL BE SECURELY ANCHORED AND HELD IN PLACE BY AT LEAST TWO STAKES OR REBARS DRIVEN THROUGH THE BALE.
- LOOSE COIR SHOULD BE WEDGED BETWEEN BALES TO PREVENT WATER FROM ENTERING BETWEEN BALES.
- COIR BALE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
- CLOSE ATTENTION SHALL BE GIVEN TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES.
- NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY.
- SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. IT MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
- ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE COIR BALE OR FILTER BARRIERS, AND/OR SILT FENCES ARE NO LONGER REQUIRED, SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.
- SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
- SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED IMMEDIATELY.
- STRUCTURES SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS REQUIRED.
- SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
- THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS, SPECIFICATIONS AND ST. JOHNS RIVER WATER MANAGEMENT DISTRICT RULES AND REGULATIONS.
- FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE FLORIDA DEVELOPMENT MANUAL - A GUIDE TO SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION (F.D.E.P.) CHAPTER 6.
- EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION. SEE DETAILS (THIS SHEET) FOR TYPICAL CONSTRUCTION.
- SOD SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITY STANDARDS ARE MAINTAINED.
- ANY DISCHARGE FROM DEWATERING ACTIVITY SHALL BE FILTERED AND CONVEYED TO THE OUTFALL IN A MANNER WHICH PREVENTS EROSION AND TRANSPORTATION OF SUSPENDED SOLIDS TO THE RECEIVING OUTFALL.
- DEWATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMPTIVE USE PERMIT FROM THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT.
- ALL DISTURBED AREAS SHALL BE GRASSED, FERTILIZED AND MULCHED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED. CONTRACTOR SHALL USE ADDITIONAL MEASURES TO STABILIZE DISTURBED AREAS THROUGH COMPACTION, SILT SCREENS, COIR BALES, AND GRASSING. ALL FILL SLOPES 3:1 OR STEEPER TO RECEIVE STAKED SOLID SOD.
- ALL DEWATERING, EROSION, AND SEDIMENT CONTROL SHALL REMAIN IN PLACE UNTIL AFTER COMPLETION OF CONSTRUCTION, AND REMOVED ONLY WHEN AREAS HAVE BEEN STABILIZED.
- THIS PLAN INDICATES THE MINIMUM EROSION AND SEDIMENT MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY GUIDELINES AND MAY NEED TO INSTALL ADDITIONAL CONTROLS.
- THE CONTRACTOR SHALL BE REQUIRED TO RESPOND TO ALL WATER MANAGEMENT DISTRICT INQUIRIES, RELATIVE TO COMPLIANCE OF SJRWMD FOR EROSION AND SEDIMENTATION CONTROL. THE COST OF THIS COMPLIANCE SHALL BE PART OF THE CONTRACT.
- EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS AND PRESERVATION EASEMENTS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING A PERMANENT STAND OF SOD AND/OR GRASS PER THE CONTRACT DOCUMENTS AND MEETING THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT, 000000000 AND NPDES FINAL STABILIZATION REQUIREMENTS.
- THESE PLANS INCLUDING THE POLLUTION PREVENTION PLAN INDICATE THE MINIMUM EROSION & SEDIMENT CONTROL MEASURES REQUIRED FOR THIS PROJECT. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE FLORIDA DEVELOPMENT MANUAL - A GUIDE TO

SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (F.D.E.P.) CHAPTER 6. CONTRACTOR SHALL PROVIDE EROSION PROTECTION AND TURBIDITY CONTROL AS REQUIRED TO INSURE CONFORMANCE TO STATE AND FEDERAL WATER QUALITY STANDARDS AND MAY NEED TO INSTALL ADDITIONAL CONTROLS TO CONFORM TO AGENCIES REQUIREMENTS. IF A WATER QUALITY VIOLATION OCCURS, THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ALL DAMAGE AND ALL COSTS WHICH MAY RESULT INCLUDING LEGAL FEES, CONSULTANT FEES, CONSTRUCTION COSTS, AND FINES.

35. 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR WILL SUBMIT A "NOTICE OF INTENT" TO THE EPA IN ACCORDANCE WITH NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM RULES AND REGULATIONS. (FOR ANY CONSTRUCTION NOT COVERED BY THE OWNER'S "NOTICE OF INTENT" PERMIT)



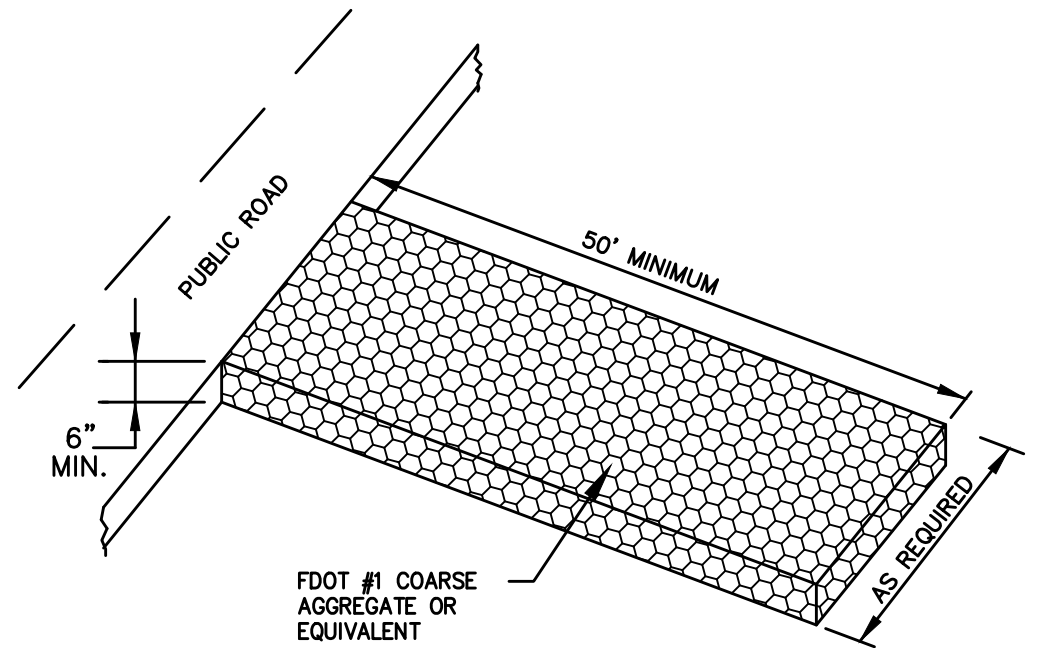
SECTION A-A



PLAN VIEW

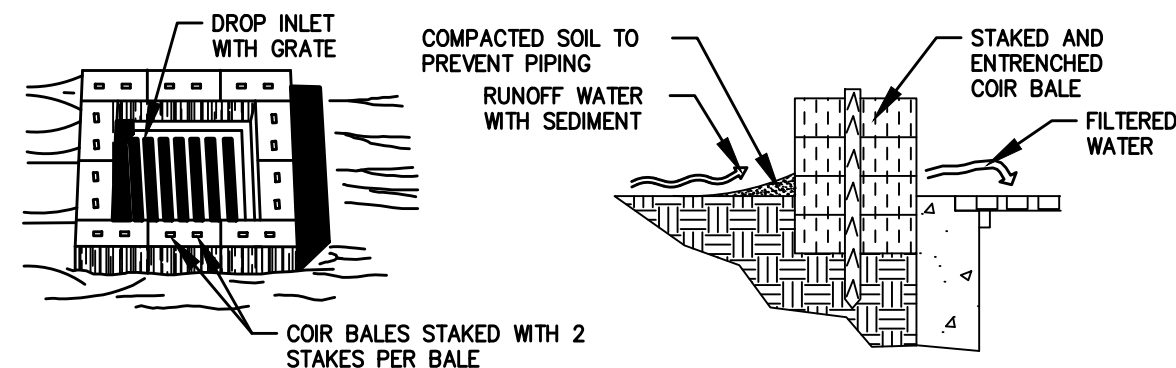
TEMPORARY DEWATERING DETAIL

N.T.S.



STABILIZED CONSTRUCTION ENTRANCE

N.T.S.

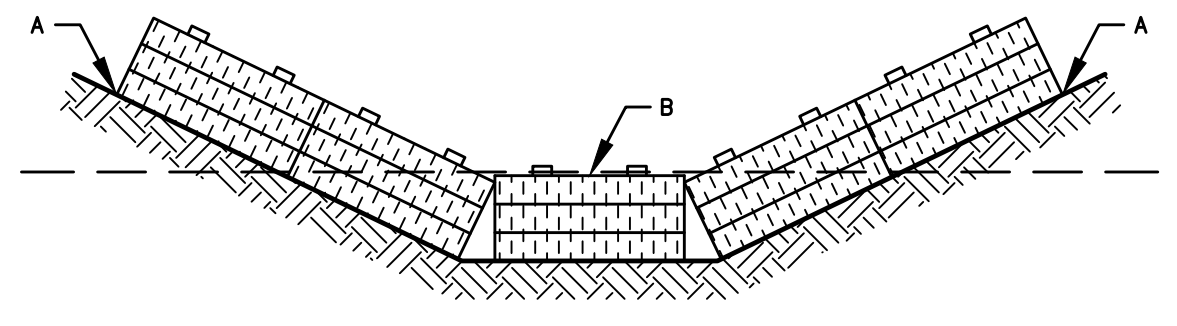


SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5 PERCENT) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 cfs) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

COIR BALE DROP INLET SEDIMENT FILTER

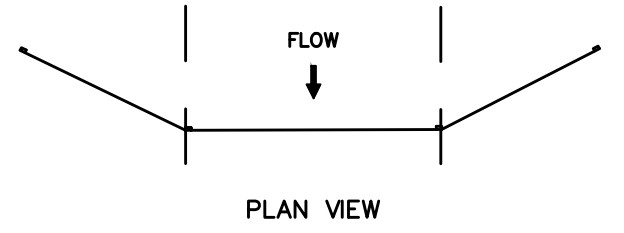
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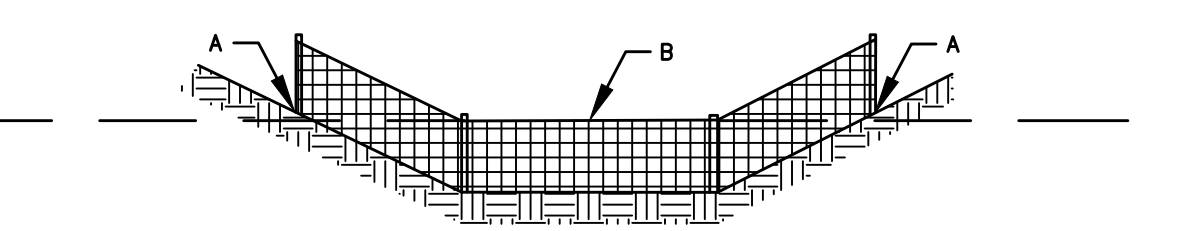
POINTS A SHOULD BE HIGHER THAN POINT B

PROPER PLACEMENT OF COIR BALE IN A DRAINAGE WAY

N.T.S.



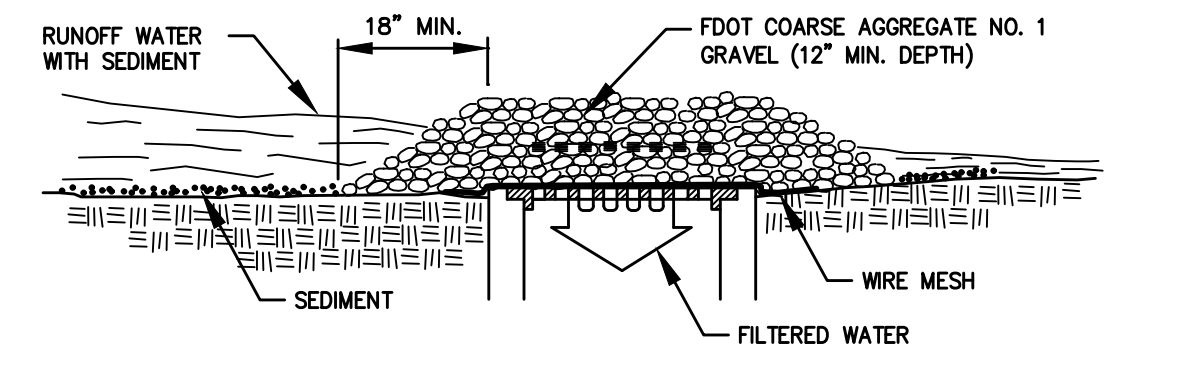
PLAN VIEW



POINTS A SHOULD BE HIGHER THAN POINT B

PROPER PLACEMENT OF A FILTER BARRIER IN DRAINAGE WAY

N.T.S.

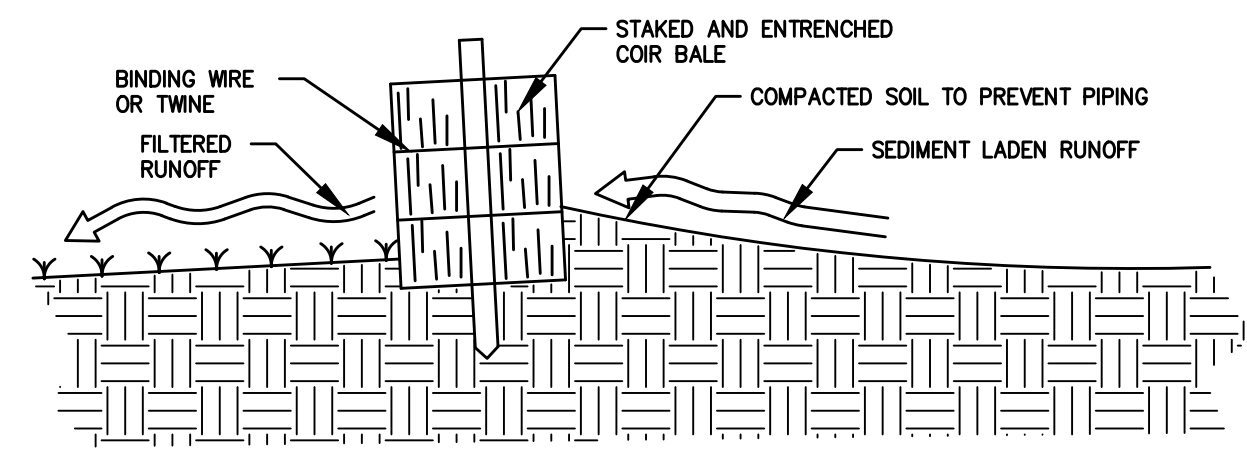


SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER

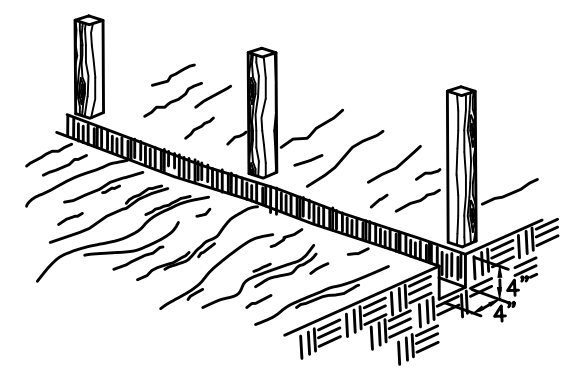
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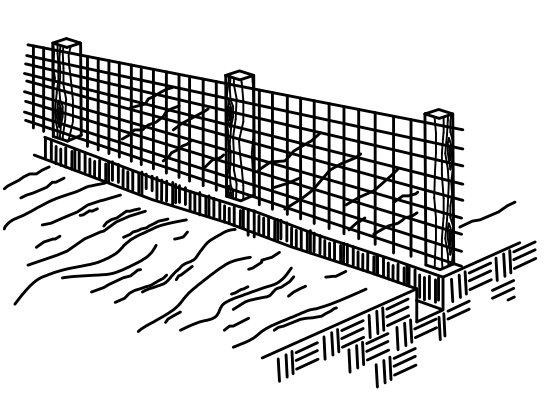
CROSS-SECTION OF A PROPERLY INSTALLED COIR BALE

N.T.S.

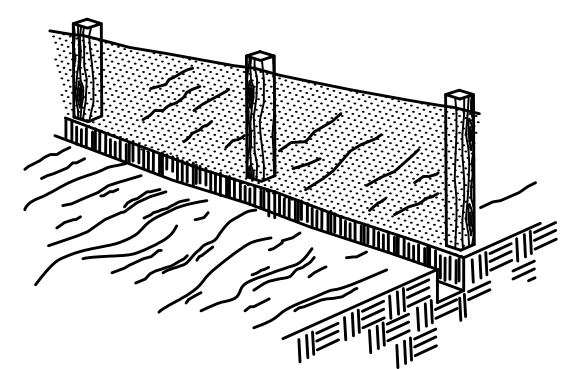
1. SET POSTS AND EXCAVATE A 4" X 4" TRENCH UPSLOPE ALONG THE LINE OF POSTS.



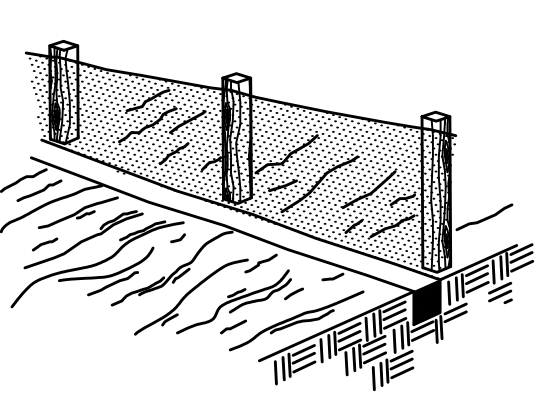
2. STAPLE WIRE FENCING TO THE POSTS.



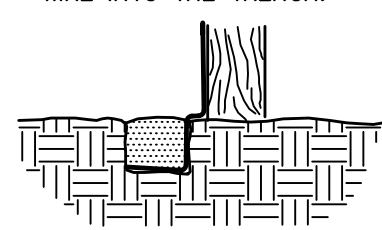
3. ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH.



4. BACKFILL AND COMPACT THE EXCAVATED SOIL.



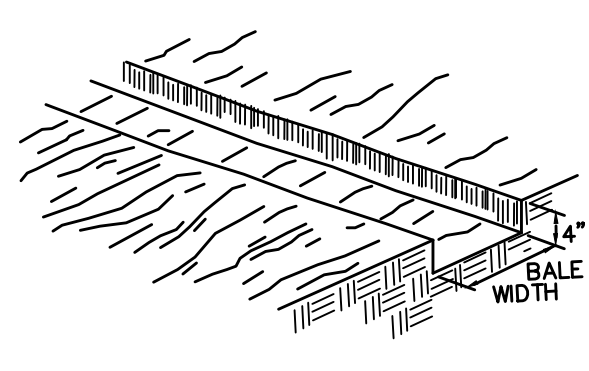
EXTENSION OF FABRIC AND WIRE INTO THE TRENCH.



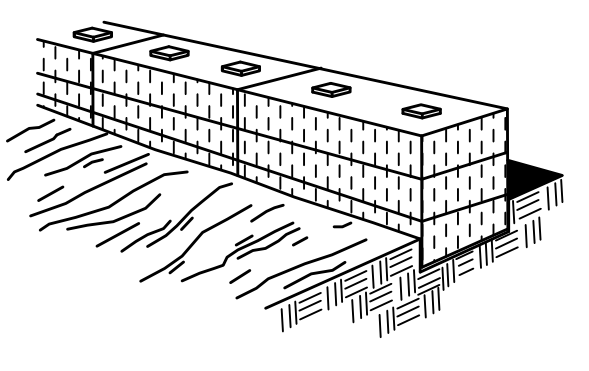
CONSTRUCTION OF SILT FENCE

N.T.S.

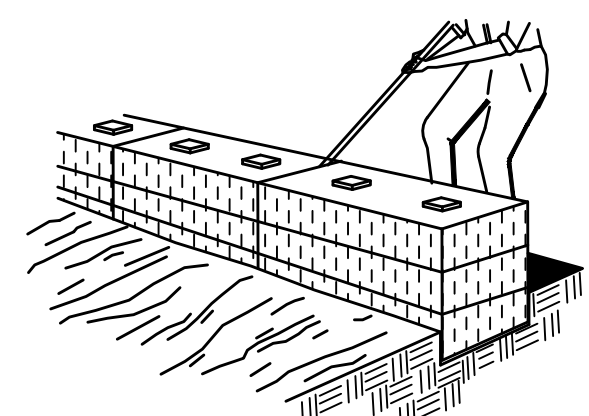
1. EXCAVATE THE TRENCH



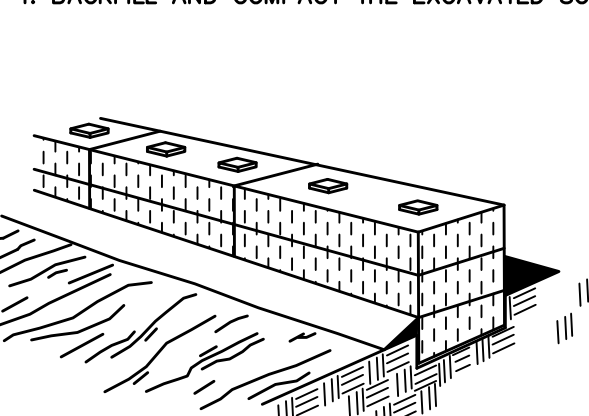
2. PLACE AND STAKE COIR BALES.



3. WEDGE LOOSE COIR BETWEEN BALES.



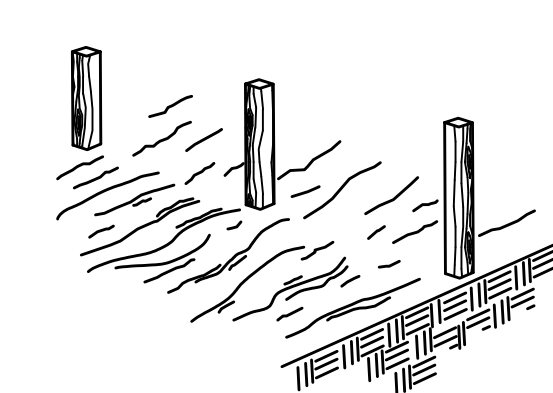
4. BACKFILL AND COMPACT THE EXCAVATED SOIL.



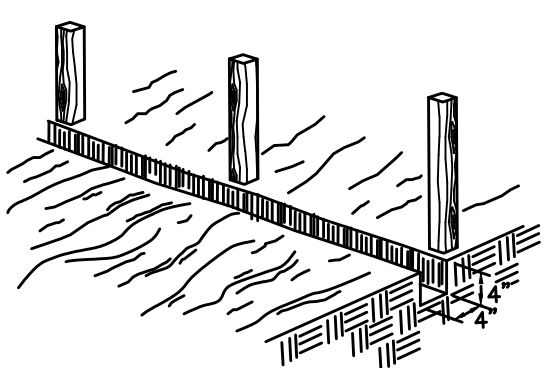
CONSTRUCTION OF A COIR BALE BARRIER

N.T.S.

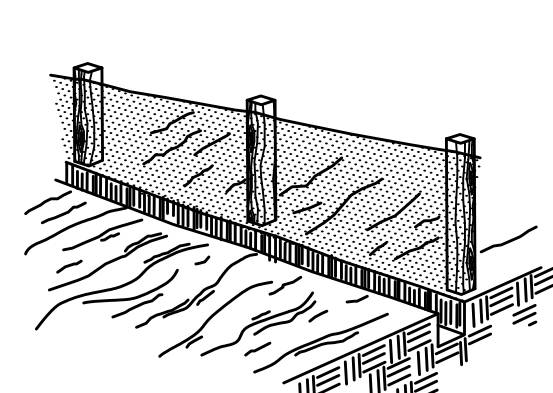
1. SET THE STAKES.



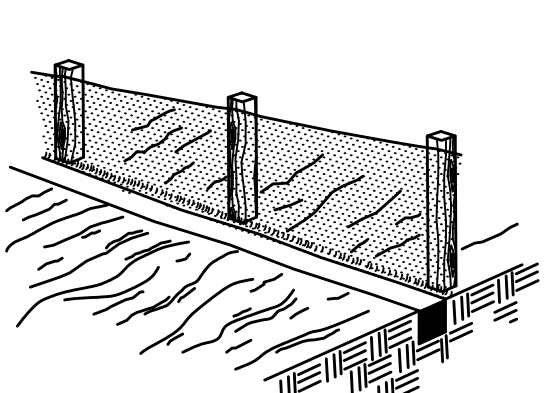
2. EXCAVATE A 4" X 4" TRENCH UPSLOPE ALONG THE LINE OF STAKES



3. STAPLE FILTER MATERIAL TO STAKES AND EXTEND IT INTO THE TRENCH.



4. BACKFILL AND COMPACT THE EXCAVATED SOIL



CONSTRUCTION OF A FILTER BARRIER

N.T.S.

Connelly & Wicker Inc.
 Engineering - Landscape Architecture
 10060 Skimmer Lake Drive, Suite 500 Jacksonville, Florida 32246
 (904) 265-3030 FAX: (904) 265-3031 www.connelly-wicker.com
 Florida Registry #650 L.A. Number: LC26000311

No.	Date	Revision

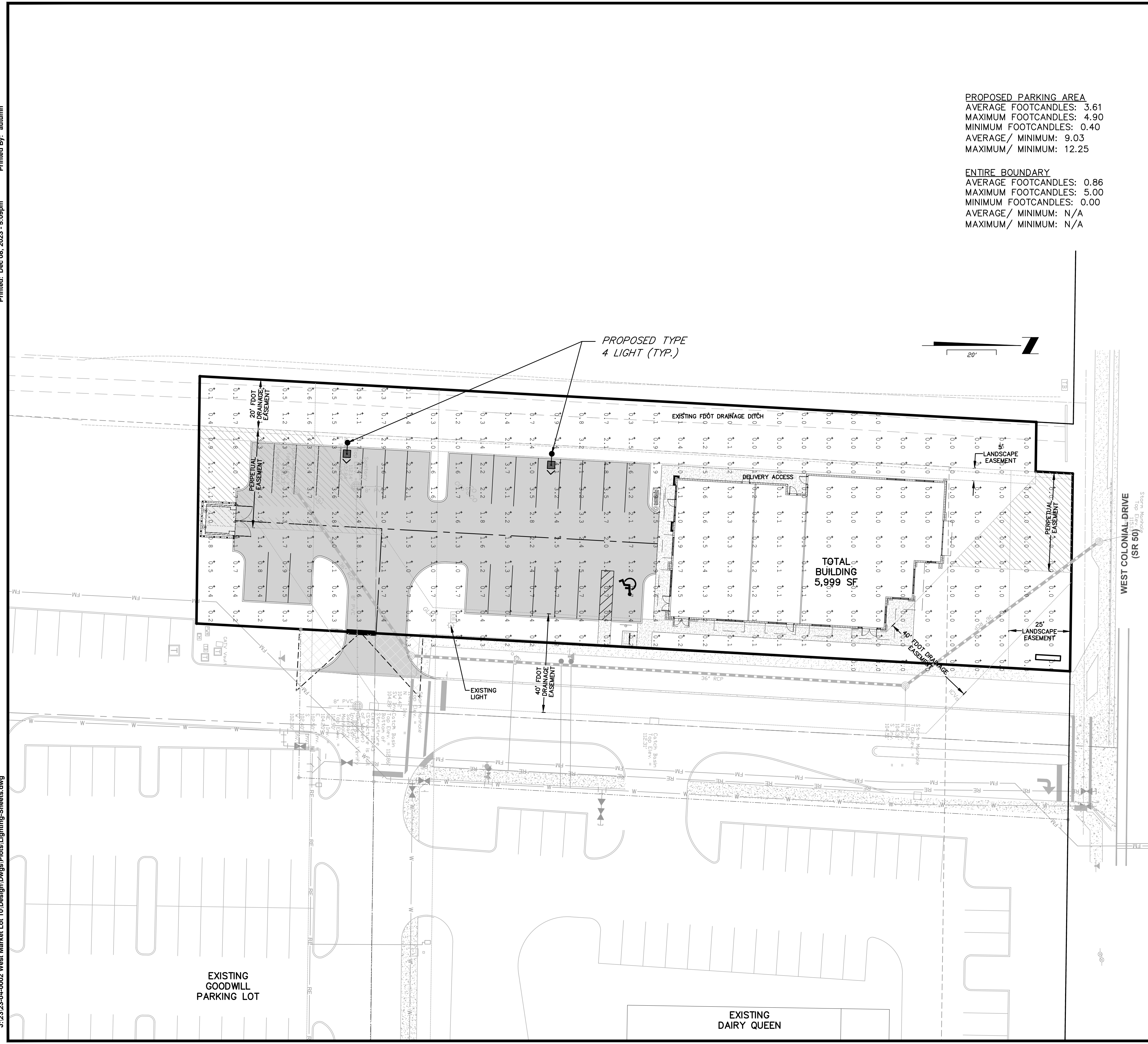
SEDIMENT AND EROSION CONTROL DETAILS

WEST MARKET LOT 10
 WINTER GARDEN, FL
 PREPARED FOR
J HEBDEN PARK, LLC

AUTUMN M. HUBSCH
 P.E. NUMBER: 72939
 Reg. Engineer

Project No.: 23-04-0002
 Designed: AMH Drawn: DCG
 Checked: JEW O.C.:
 Date: DECEMBER 2023
 Scale:

Printed: Nov 30, 2023 - 5:05pm
 J:\23\23-04-0002 West Market Lot 10 Design\Drawings\SEC-Dets-Sheets.dwg
 Printed By: autum



PROPOSED PARKING AREA
 AVERAGE FOOTCANDLES: 3.61
 MAXIMUM FOOTCANDLES: 4.90
 MINIMUM FOOTCANDLES: 0.40
 AVERAGE/ MINIMUM: 9.03
 MAXIMUM/ MINIMUM: 12.25

ENTIRE BOUNDARY
 AVERAGE FOOTCANDLES: 0.86
 MAXIMUM FOOTCANDLES: 5.00
 MINIMUM FOOTCANDLES: 0.00
 AVERAGE/ MINIMUM: N/A
 MAXIMUM/ MINIMUM: N/A

NOTE:
 1. ALL PROPOSED LIGHT POLES HAVE A MOUNTING HEIGHT OF 20' UNLESS OTHERWISE NOTED. POLES TO BE PAINTED BLACK.

2. CONCRETE FOUNDATION TO BE 36" ABOVE GROUND. THE FOUNDATION DESIGN TO BE COVERED IN SHOP DRAWING PROCESS.

PROPOSED LIGHTING FIXTURE – COOPER LIGHTING SOLUTIONS PREVAIL SERIES LED AREA UNIT WITH TYPE T4 DISTRIBUTION

PRV-C40-D-UNV-TA-BZ

Lumark
Prevail LED
 Area / Site Luminaire

Product Features

- BAA
- Energy Efficient
- High Output
- Long Life
- Maintenance Free

Product Certifications

Quick Facts

- Lumen packages range from 4,800 - 84,000 lumens (35W - 588W)
- Replaces 70W up to 1,000W HID equivalents
- Efficacies up to 160 lumens per watt
- Energy and maintenance savings up to 85% versus HID solutions
- Standard universal quick mount arm with universal drill pattern

Dimensional Details

COOPER
 Lighting Solutions

Lumark
Prevail LED

Ordering Information

SAMPLE NUMBER: PRV-XL-CFS-D-UNV-T4-SA-BZ

Product Family	Light Engine	Color Temperature	Power	Mounting	Order Code
PRV-XL-Prevail LED SA Compact 1	120W-135W Normal Lumens	3000K-5000K	35W-588W	20'-Type 1	PRV-XL-Prevail LED SA Compact 1
PRV-XL-Prevail LED SA Compact 2	120W-135W Normal Lumens	3000K-5000K	35W-588W	20'-Type 2	PRV-XL-Prevail LED SA Compact 2
PRV-XL-Prevail LED SA Compact 3	120W-135W Normal Lumens	3000K-5000K	35W-588W	20'-Type 3	PRV-XL-Prevail LED SA Compact 3

COOPER
 Lighting Solutions

Lumark
Prevail LED

Ordering Information

SAMPLE NUMBER: PRV-XL-CFS-D-UNV-T4-SA-BZ

Product Family	Light Engine	Color Temperature	Power	Mounting	Order Code
PRV-XL-Prevail LED SA Compact 1	120W-135W Normal Lumens	3000K-5000K	35W-588W	20'-Type 1	PRV-XL-Prevail LED SA Compact 1
PRV-XL-Prevail LED SA Compact 2	120W-135W Normal Lumens	3000K-5000K	35W-588W	20'-Type 2	PRV-XL-Prevail LED SA Compact 2
PRV-XL-Prevail LED SA Compact 3	120W-135W Normal Lumens	3000K-5000K	35W-588W	20'-Type 3	PRV-XL-Prevail LED SA Compact 3

Notes

1. All luminaire packages are standard 6000/7000/8000/9000/10000/12000/15000/18000/20000/25000/30000/35000/40000/45000/50000/55000/60000/65000/70000/75000/80000/85000/90000/95000/100000/110000/120000/130000/140000/150000/160000/170000/180000/190000/200000/210000/220000/230000/240000/250000/260000/270000/280000/290000/300000/310000/320000/330000/340000/350000/360000/370000/380000/390000/400000/410000/420000/430000/440000/450000/460000/470000/480000/490000/500000/510000/520000/530000/540000/550000/560000/570000/580000/590000/600000/610000/620000/630000/640000/650000/660000/670000/680000/690000/700000/710000/720000/730000/740000/750000/760000/770000/780000/790000/800000/810000/820000/830000/840000/850000/860000/870000/880000/890000/900000/910000/920000/930000/940000/950000/960000/970000/980000/990000/1000000

No.	Date	Revision

WEST MARKET LOT 10 LIGHTING PLAN

PREPARED FOR
WINTER GARDEN, FL
J HEBDEN PARK, LLC

Project No.: 23-04-0002
 Designed: AMH
 Drawn: DCG
 Checked: JEW
 O.C.: RCW
 Date: DECEMBER 2023
 Scale: 1" = 20'
 Sheet 12

THIS DRAWING IS THE PROPERTY OF CONNELLY & WICKER INC. AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART. IT IS NOT TO BE USED ON ANY OTHER PROJECT AND IS TO BE RETURNED ON REQUEST.

CITY OF WINTER GARDEN - GENERAL NOTES:

- 1. ALL UTILITY SYSTEMS AND IMPROVEMENTS CONSTRUCTED IN THE CITY OF WINTER GARDEN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MANUAL OF STANDARDS AND SPECIFICATIONS FOR UTILITY CONSTRUCTION...
2. THE CITY OF WINTER GARDEN GENERAL NOTES AND DETAILS ARE PROVIDED FOR THE CONVENIENCE OF FIELD PERSONNEL...
3. ANY REQUEST FOR VARIANCE OR NONCOMPLIANCE FROM THE MSS/CWG NOTED ABOVE MUST BE APPROVED BY THE CITY ENGINEER OR UTILITIES DIRECTOR...
13. ALL AS BUILT MEASUREMENTS & ELEVATIONS ARE TO BE MADE BY A LICENSED LAND SURVEYOR.

CITY OF WINTER GARDEN - WATER SYSTEM NOTES:

- 1. THE CONTRACTOR SHALL PROVIDE AND INSTALL A CITY APPROVED BACKFLOW DEVICE ASSEMBLY AT EACH CONNECTION POINT TO THE CITY WATER SYSTEM.
2. REPAIRS TO NEW WATER LINES, TO OBTAIN SPECIFIED PRESSURE TEST, WILL BE ALLOWED ONLY UP TO A NUMBER EQUAL TO 10% OF THE TOTAL NUMBER OF JOINT CONNECTIONS.
3. THE CONTRACTOR SHALL HYDROSTATICALLY TEST ALL WATER MAINS AND SERVICE LATERALS AT 150 PSI FOR A TWO HOUR PERIOD. TESTING MUST BE OBSERVED BY A CITY INSPECTOR.

CITY OF WINTER GARDEN - WASTEWATER SYSTEM NOTES:

- 1. SANITARY SEWER MAINS AND SERVICES SHALL BE PVC SDR-26 (MINIMUM). FITTINGS SHALL BE SDR-26 DUCTILE IRON IS NOT APPROVED FOR SANITARY SEWERS.
2. ALL SERVICES SHALL BE 6" (MINIMUM) DIAMETER AND TERMINATE AT THE PROPERTY LINE WITH 6" CLEAN OUT. (36" TO 48" DEEP AT LOT LINE)
3. MAGNETIC TAPE MUST BE PLACED 2' ABOVE THE TOP OF PIPE FOR THE ENTIRE LENGTH OF ALL MAINS AND SERVICES.

CITY OF WINTER GARDEN - RECLAIMED WATER SYSTEM NOTES:

- 1. ALL PRIVATE RECLAIMED WATER SYSTEMS SHALL HAVE A CITY APPROVED BACKFLOW DEVICE ASSEMBLY AT EACH CONNECTION POINT TO THE CITY WATER SYSTEM.
2. REPAIRS TO NEW WATER LINES, TO OBTAIN SPECIFIED PRESSURE TEST, WILL BE ALLOWED ONLY UP TO A NUMBER EQUAL TO 10% OF THE TOTAL NUMBER OF JOINT CONNECTIONS.
3. ALL MAINS AND SERVICE LATERALS SHALL BE HYDROSTATICALLY TESTED AT 150 PSI FOR A TWO HOUR PERIOD.

CLOSED CIRCUIT TELEVISION (CCTV) INSPECTION OF SEWER LINES

- GENERAL:
1. ALL NEW SANITARY SEWER LINES, PRIVATE OR CITY MAINTAINED, IN THE CITY OF WINTER GARDEN'S SERVICE AREA SHALL BE INSPECTED BY CLOSED CIRCUIT TV INSPECTION BY THE CONTRACTOR WITH A CITY INSPECTOR PRESENT PRIOR TO BEING ACCEPTED BY THE CITY.
REQUIREMENTS PRIOR TO INSPECTION RELEASE:
1. ALL ELEMENTS OF THE SEWER SYSTEM MUST BE INSTALLED AND BE COMPLETELY FINISHED. INCLUDING MAIN SEWER LINES, LATERALS, CLEAN OUTS, AND MANHOLES PRIOR TO CCTV INSPECTION.

CITY OF WINTER GARDEN - TRUST RESTRAINT TABLE

RESTRAINED FORCE MAIN PIPE TABLE
MINIMUM LENGTH(FT) TO BE RESTRAINED ON EACH SIDE OF FITTING(S)
PIPE SIZE
6" 8" 10" 12" 16" 20" 24" 30" 36"
90° BEND 19 25 30 34 44 52 60 70 80
45° BEND 8 10 12 14 18 21 25 30 34
22-1/2° BEND 4 5 6 7 9 10 12 14 16
11-1/4° BEND 2 3 4 5 6 7 8 9 10
PLUG DEAD END OR BRANCH OF TEE VALVE 40 52 63 72 93 111 130 155 178
20 25 32 36 47 56 78 116 89

RESTRAINED WATER AND RECLAIMED PIPE TABLE
MINIMUM LENGTH(FT) TO BE RESTRAINED ON EACH SIDE OF FITTING(S)
PIPE SIZE
6" 8" 10" 12" 16" 20" 24" 30" 36"
90° BEND 29 37 44 51 65 77 89 105 120
45° BEND 12 15 18 21 27 32 37 44 50
22-1/2° BEND 6 7 9 10 13 15 18 21 24
11-1/4° BEND 3 4 5 6 7 8 9 10 12
PLUG DEAD END OR BRANCH OF TEE VALVE 59 77 93 108 138 166 194 231 265
59 77 93 108 138 166 194 231 265

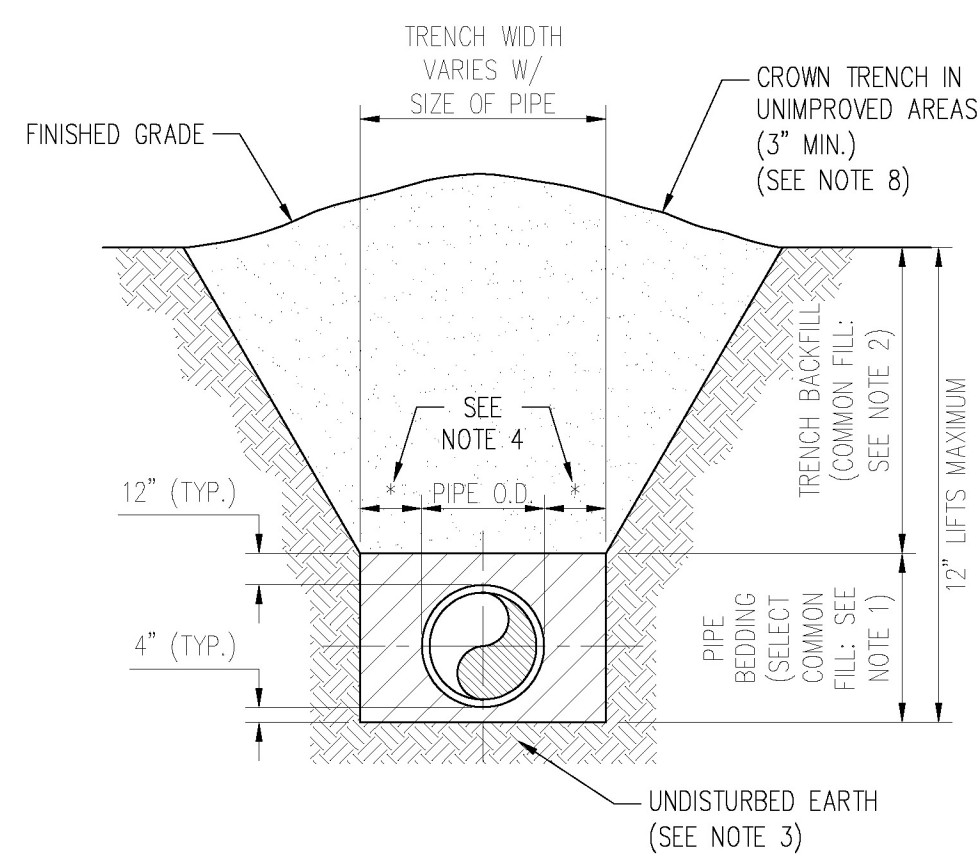
HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS
PROPOSED UTILITY POTABLE WATER RECLAIMED WATER SANITARY SEWER (GRAVITY) SANITARY SEWER (FORCEMAIN) STORM WATER ACCEPTABLE VARIANCES
HORIZ. VERT. HORIZ. VERT. HORIZ. VERT. HORIZ. VERT. HORIZ. VERT.
POTABLE WATER - - 3' 12" 6' 12" 6' 12" 3' 6" A 12" B
RECLAIMED WATER 3' 12" - - 3' 6" A 12" B 3' 12" - -
SANITARY SEWER (GRAVITY) 6' 12" 3' 6" A 12" B - - - - -
SANITARY SEWER (FORCEMAIN) 6' 12" 3' 12" - - - - -

CITY OF WINTER GARDEN, FLORIDA STANDARDS AND SPECIFICATIONS FOR UTILITIES CONSTRUCTION
WINTER GARDEN
4/4/14 4/4/14
Revised General Notes
Revised Water & Reuse Notes
1 2
NO.
DATE
JUNE 1989

STANDARD DETAILS FOR UTILITIES SYSTEMS
1
1 OF 11

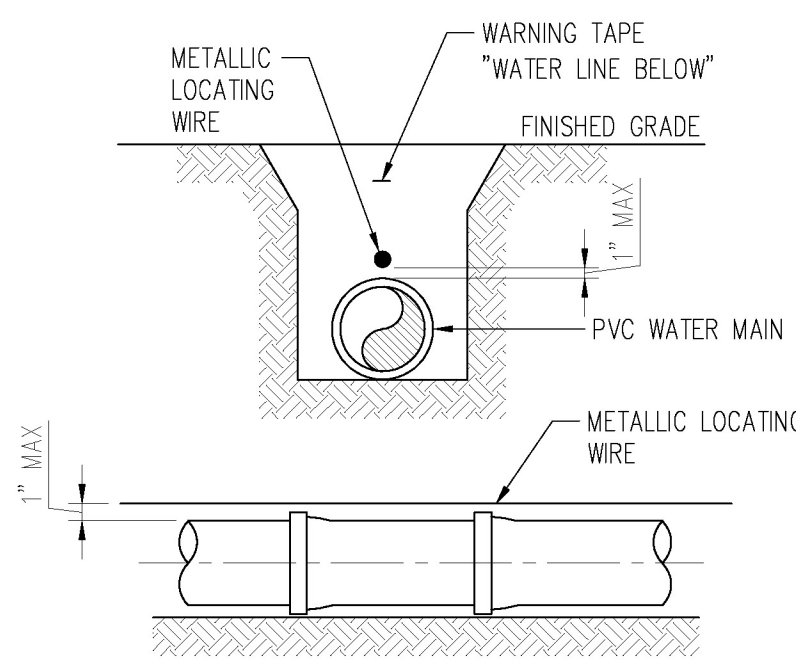
WINTER GARDEN STANDARDS INCORPORATED WITH DESIGN ENGINEERS DOCUMENTS:

THE DETAILS, NOTES AND SPECIFICATIONS SHOWN ON THIS SHEET REPRESENT THE NOTED STANDARDS OF THE CITY OF WINTER GARDEN FOR CONSTRUCTION OF PUBLIC WORKS AND UTILITY INFRASTRUCTURE. BY INCLUDING THE STANDARDS, THE DESIGN ENGINEER HAS ACKNOWLEDGED THAT THEY ARE EFFECTIVE TO THE PROJECT AND THAT DETAILS, NOTES, OR SPECIFICATIONS ARE AS PROVIDED BY THE CITY AND HAVE NOT BEEN REVISED OR MODIFIED WITHOUT WRITTEN APPROVAL FROM THE CITY ENGINEER OR UTILITY DIRECTOR.



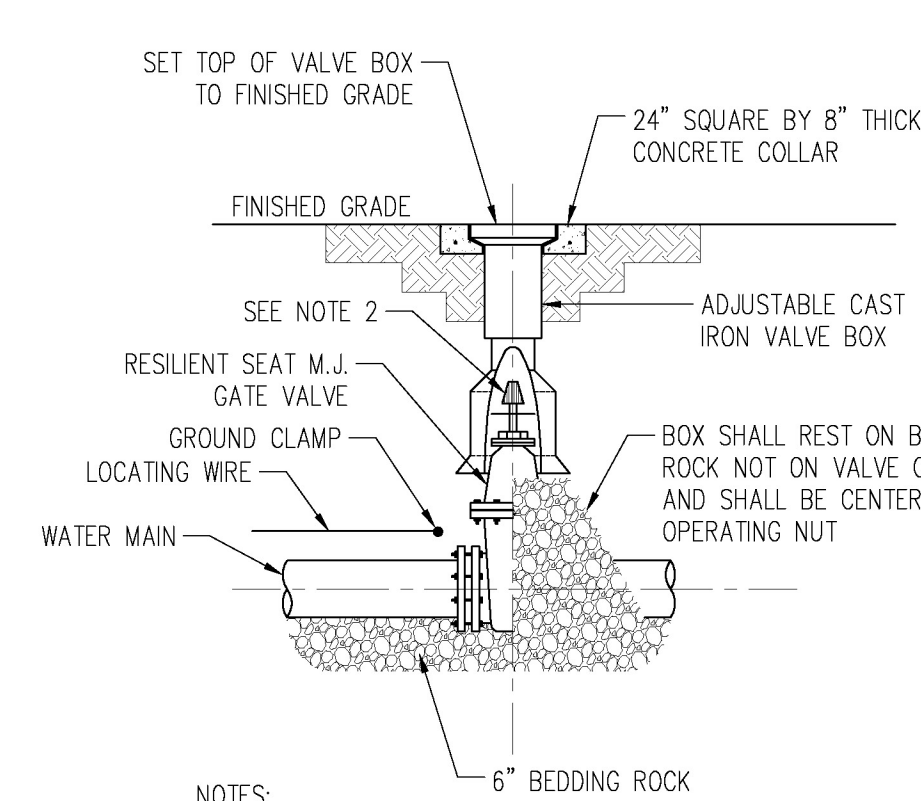
- NOTES:**
- PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 98% OF THE MAXIMUM DENSITY AS PER AASHTO T-180 AND CONTAINING NO MORE THAN 5% PASSING #200 SIEVE.
 - TRENCH BACKFILL: COMMON FILL COMPACTED TO 98% OF THE MAXIMUM DENSITY AS PER AASHTO T-180 AND CONTAINING NO MORE THAN 5% PASSING #200 SIEVE.
 - PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE A BEDDING AND TRENCHING MAY BE REQUIRED AS DIRECTED BY THE CITY OF WINTER GARDEN.
 - (+): 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" LARGER.
 - WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
 - ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
 - REFER TO SECTION 32.5 OF THE CITY OF WINTER GARDEN MANUAL OF STANDARDS AND SPECIFICATIONS FOR WASTEWATER AND WATER MAIN CONSTRUCTION FOR SHEETING AND BRACING IN EXCAVATIONS.
 - FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN CITY OF WINTER GARDEN RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.

1 STANDARD BEDDING DETAIL
N.T.S.



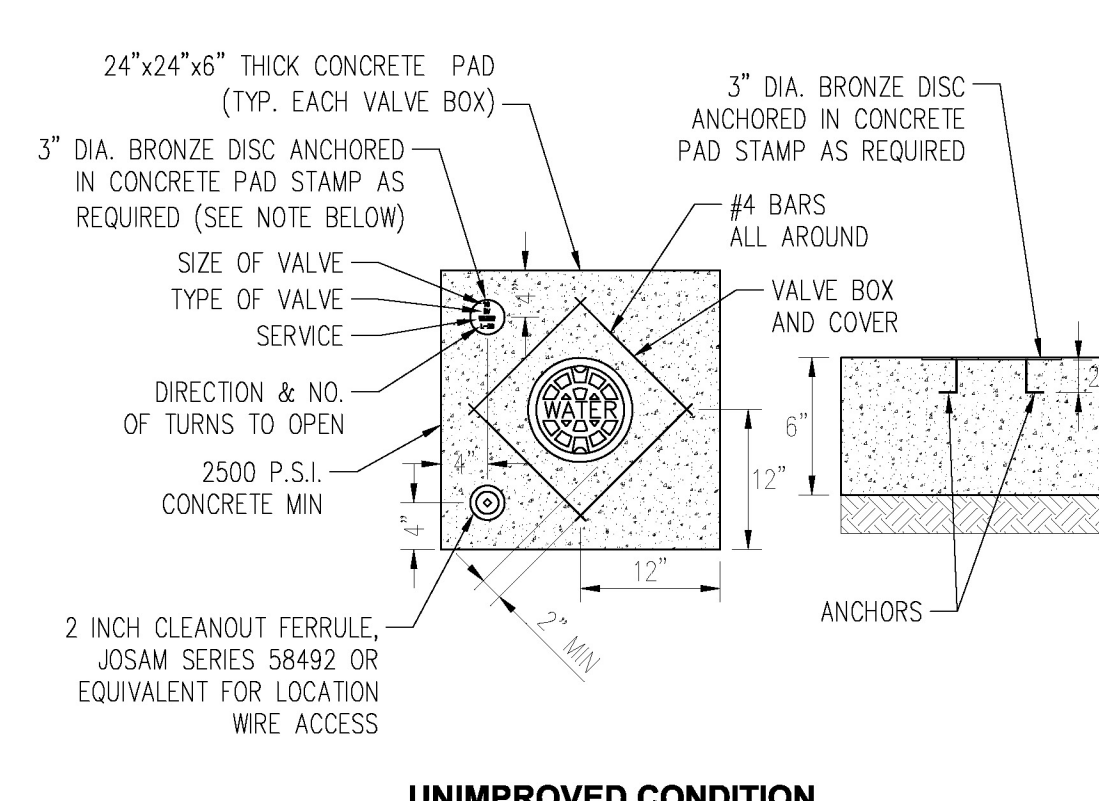
- NOTES:**
- PVC PIPE SHALL REQUIRE INSULATED METALLIC LOCATING WIRE (10 GAUGE COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR AND SHALL BE ATTACHED TO THE TOP OF PIPE WITH DUCT TAPE, AT LEAST 5 TIMES PER JOINT.
 - LOCATING ROD SHALL TERMINATE AT THE TOP OF EACH VALVE BOX AND BE CAPABLE OF EXTENDING ABOVE TOP OF BOX 1/2" SO AS NOT TO INTERFERE WITH VALVE OPERATION.

2 PVC PIPE LOCATING WIRE DETAIL
N.T.S.



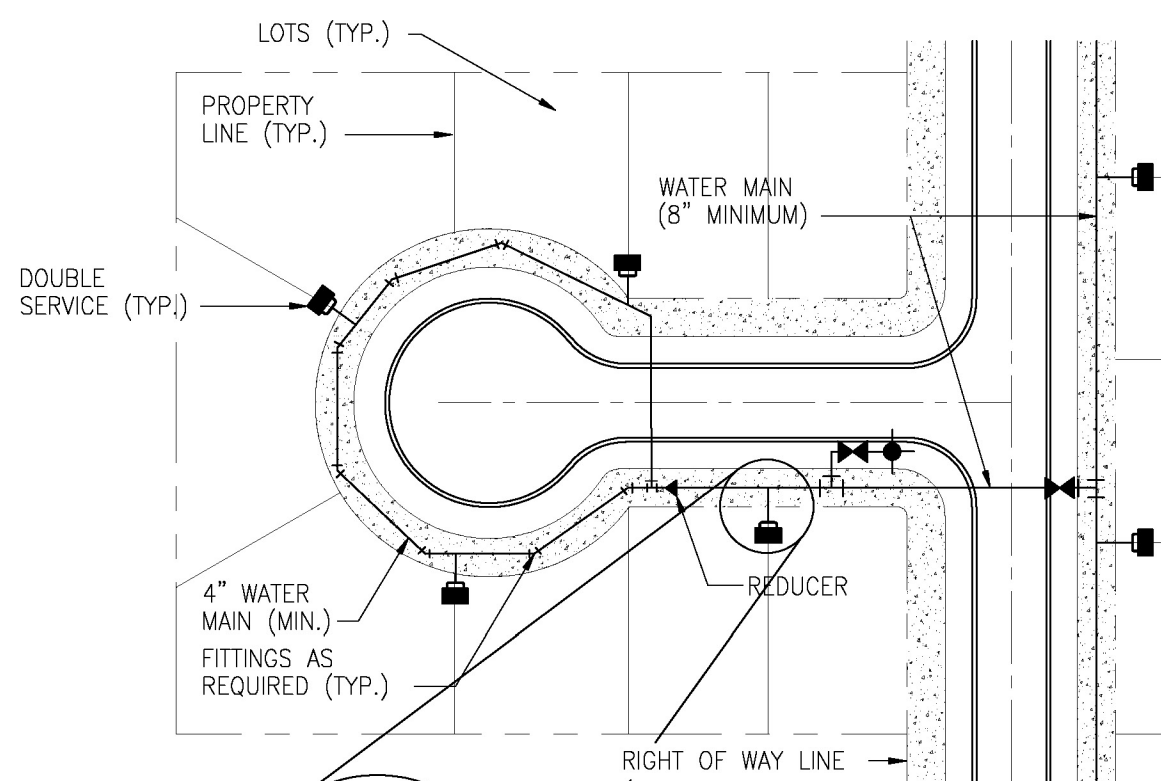
- NOTES:**
- PVC EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION.
 - THE ACTUATING NUT FOR DEEPER VALVES SHALL BE EXTENDED TO COME UP TO 4 FOOT DEPTH BELOW FINISHED GRADE.

3 GATE VALVE & BOX DETAIL
N.T.S.



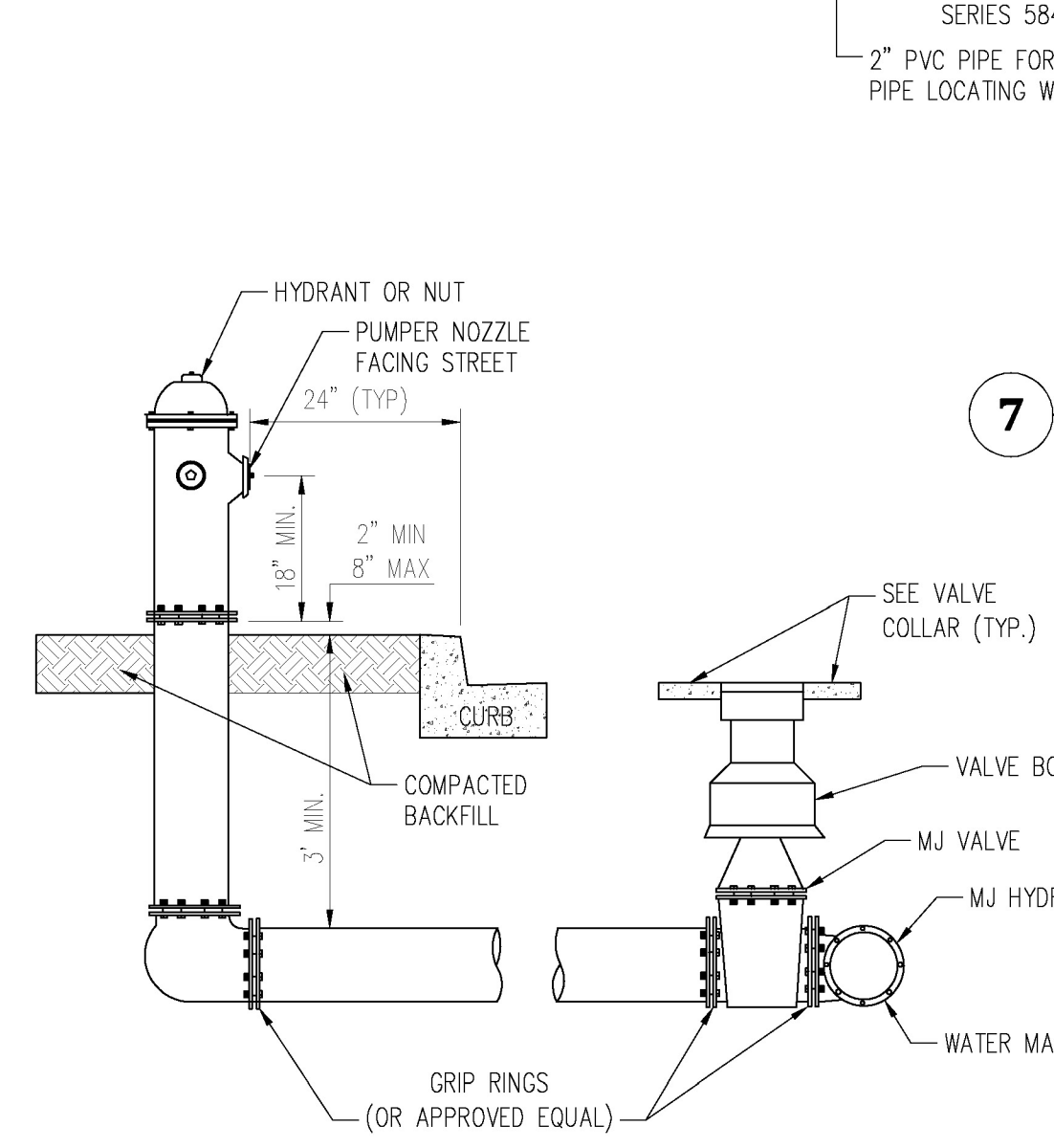
- NOTES:**
- BRONZE IDENTIFICATION DISC SHALL BE REQUIRED FOR ALL VALVES.

4 VALVE BOX COLLAR
N.T.S.

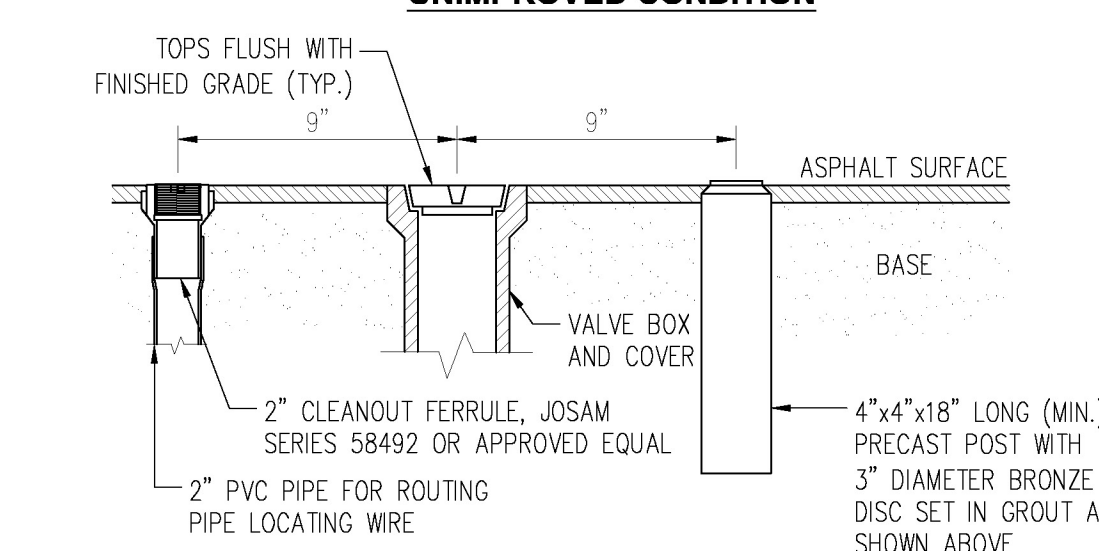


- NOTES:**
- ANCHORING TYPE 90° BEND SHALL ONLY BE USED WHERE RIGHT-OF-WAY CONSTRUCTIONS WILL NOT ALLOW INSTALLATION OF A STRAIGHT ASSEMBLY.
 - METER BOX TO BE INSTALLED BY THE CONTRACTOR.

5 CUL-DE-SAC LOOPING AND METER BOX PLACEMENT DETAIL
N.T.S.

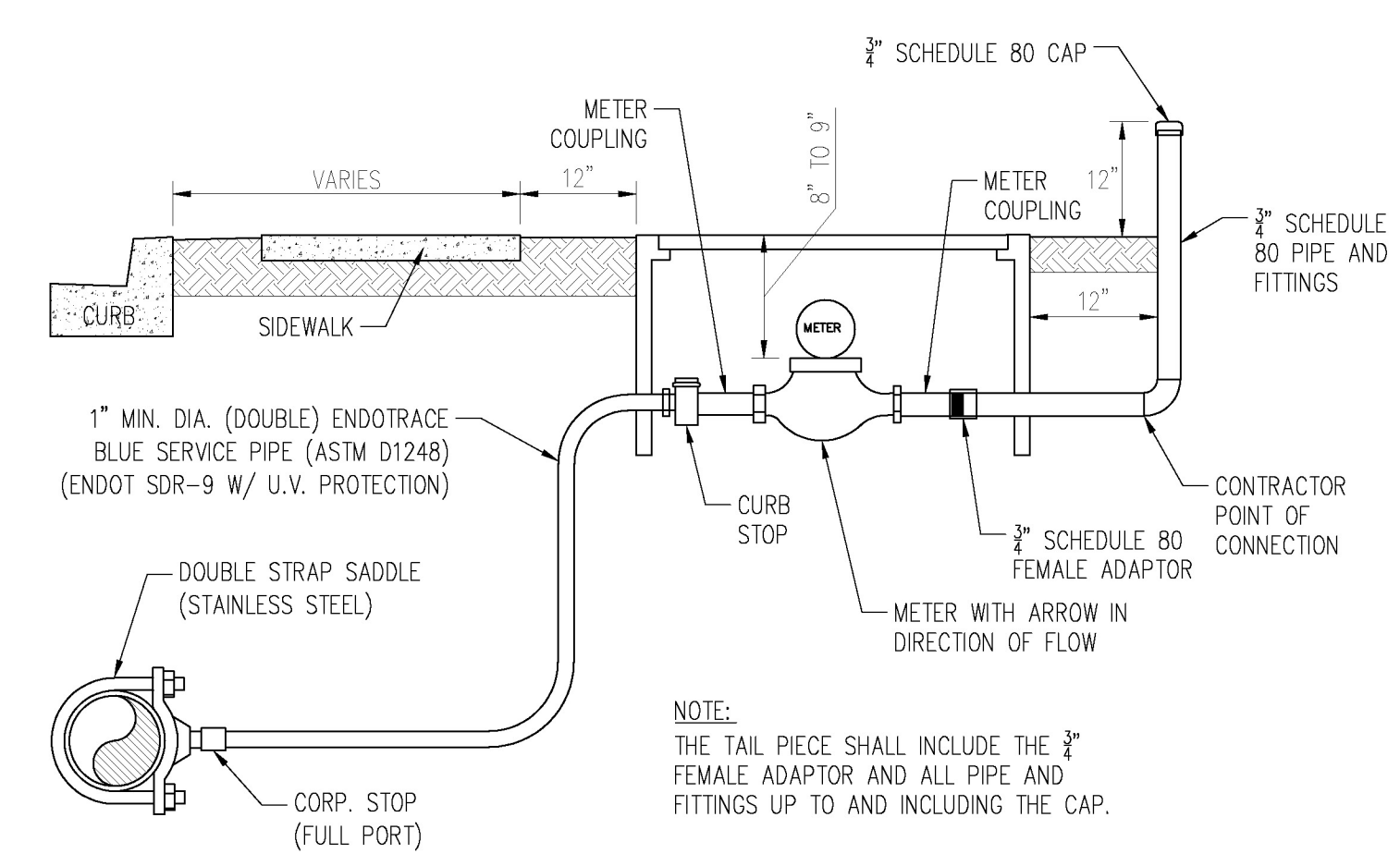


6 FIRE HYDRANT ASSEMBLY
N.T.S.



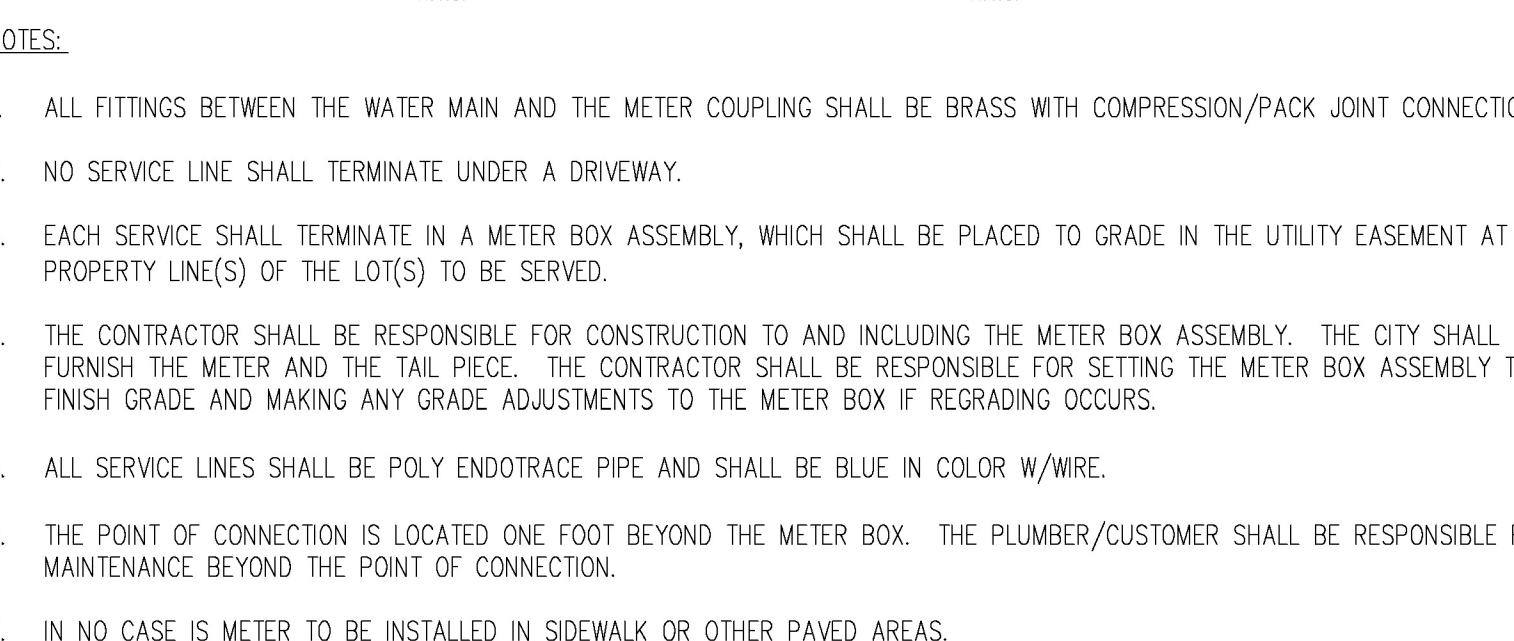
- NOTES:**
- BRONZE IDENTIFICATION DISC SHALL BE REQUIRED FOR ALL VALVES.

7 VALVE BOX COLLAR
N.T.S.

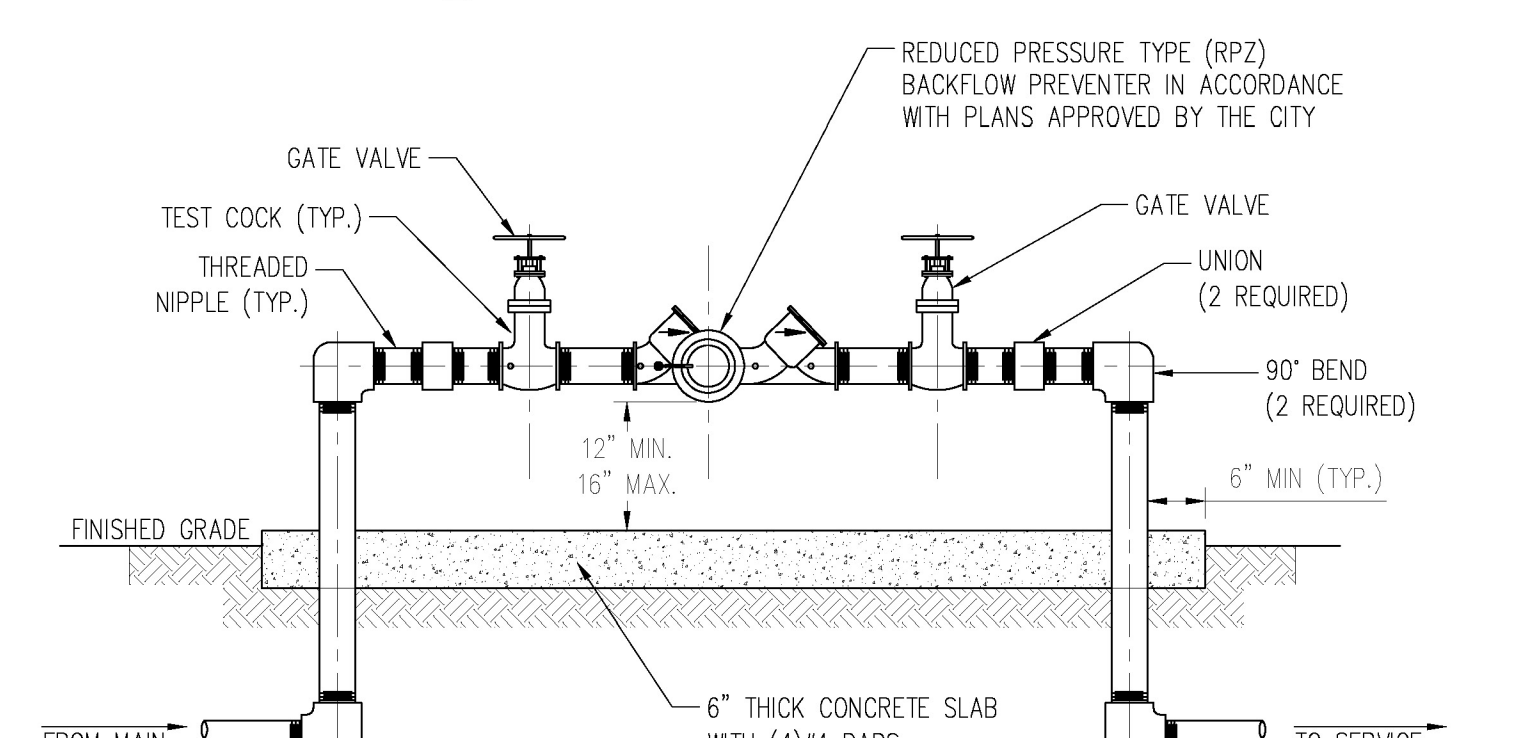


- NOTES:**
- ALL FITTINGS BETWEEN THE WATER MAIN AND THE METER COUPLING SHALL BE BRASS WITH COMPRESSION/PACK JOINT CONNECTIONS.
 - NO SERVICE LINE SHALL TERMINATE UNDER A DRIVEWAY.
 - EACH SERVICE SHALL TERMINATE IN A METER BOX ASSEMBLY, WHICH SHALL BE PLACED TO GRADE IN THE UTILITY EASEMENT AT THE PROPERTY LINE(S) OF THE LOT(S) TO BE SERVED.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION AND INCLUDING THE METER BOX ASSEMBLY. THE CITY SHALL FURNISH THE METER AND THE TAIL PIECE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING THE METER BOX ASSEMBLY TO FINISH GRADE AND MAKING ANY GRADE ADJUSTMENTS TO THE METER BOX IF REGRADING OCCURS.
 - ALL SERVICE LINES SHALL BE POLY ENDOTRACE PIPE AND SHALL BE BLUE IN COLOR W/WIRE.
 - THE POINT OF CONNECTION IS LOCATED ONE FOOT BEYOND THE METER BOX. THE PLUMBER/CUSTOMER SHALL BE RESPONSIBLE FOR MAINTENANCE BEYOND THE POINT OF CONNECTION.
 - IN NO CASE IS METER TO BE INSTALLED IN SIDEWALK OR OTHER PAVED AREAS.

8 WATER SERVICE DETAIL
N.T.S.

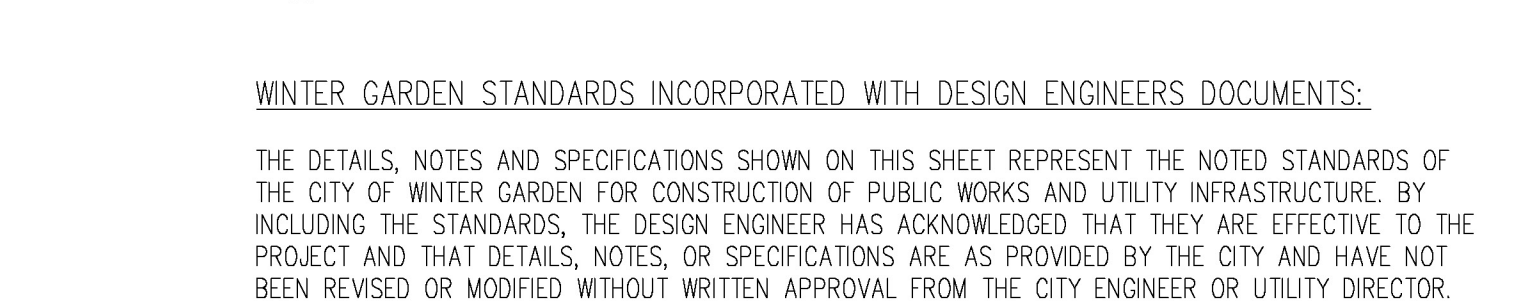


9 MASTER METER ASSEMBLY
N.T.S.

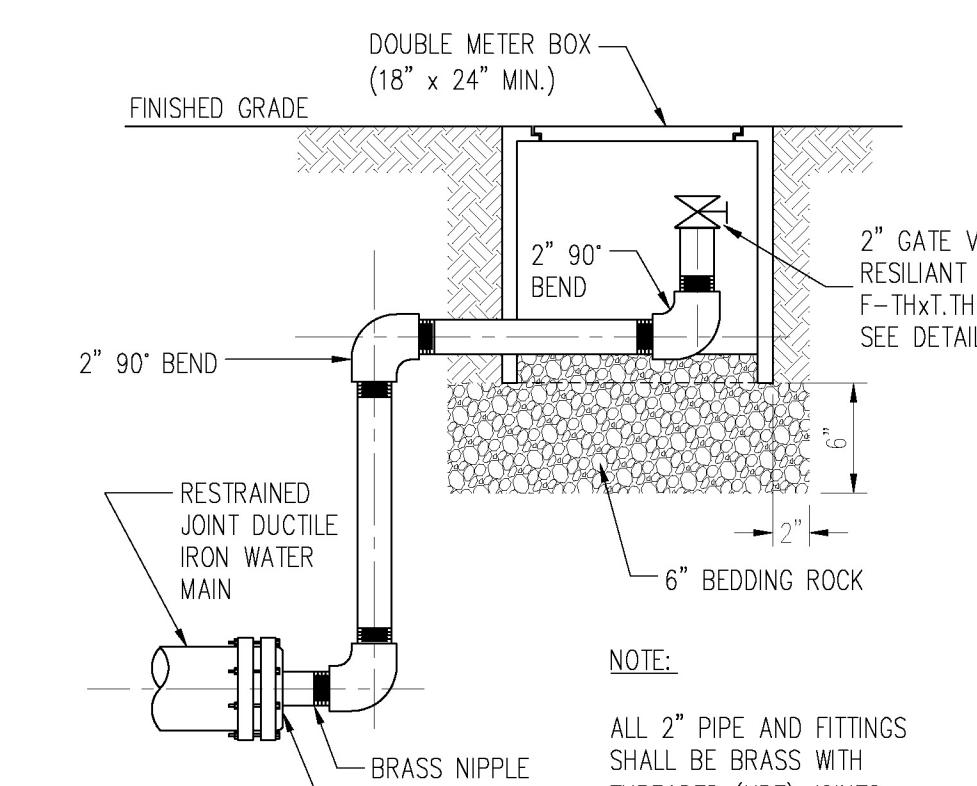


- NOTES:**
- THE MINIMUM DIMENSION FROM TOP OF PIPE TO FINISHED GRADE SHALL BE 3.0 FEET.
 - DOUBLE STRAP SADDLE AND WRAP WITH TWO LAYERS OF WIDE PLASTIC OR POLY TAPE WITH STAINLESS STEEL STRAP.
 - PIPE INSTALLATION SHALL BE SUCH THAT THE A.R.V. IS LOCATED AT THE HIGHEST POINT IN THE RESPECTIVE SEGMENT.
 - INTERIOR AND EXTERIOR CONCRETE SURFACES SHALL RECEIVE PROTECTIVE COATING AS SPECIFIED FOR VALVE VAULTS.
 - CAST IRON FRAME, COVER AND ACCESS LID SHALL BE INSTALLED FLUSH WITH FINISHED GRADE.
 - COVER SHALL READ "WINTER GARDEN UTILITIES DIVISION, "SEWER" RECLAIMED WATER OR POTABLE WATER".
 - NO GALVANIZED PIPE/VALVES.
 - LOCATE WIRE IN THE ARV VAULT SHALL BE SPliced TO THE WIRE RUNNING WITH THE WATER MAIN AND EXCESS WIRE TO BE PLACED IN ARV VAULT. THE POINT OF CONNECTION AT THE MAIN SHALL HAVE A WATER PROOF CONNECTOR.

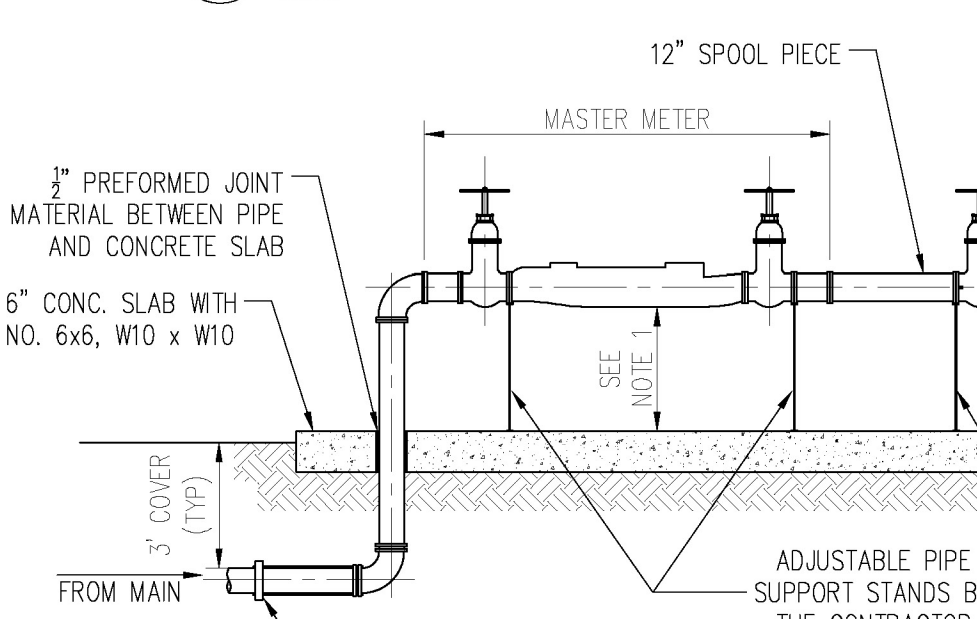
10 AIR RELEASE VALVE & VAULT
N.T.S.



11 OFFSET AIR RELEASE VALVE ASSEMBLY
N.T.S.

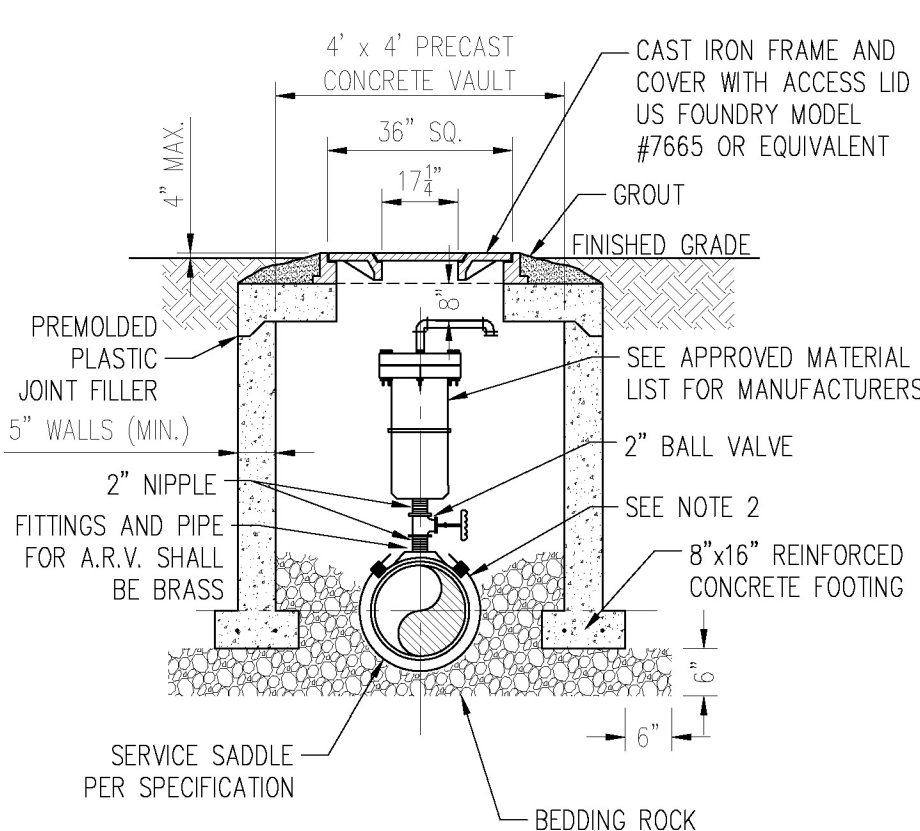


12 BLOWOFF VALVE DETAIL
N.T.S.



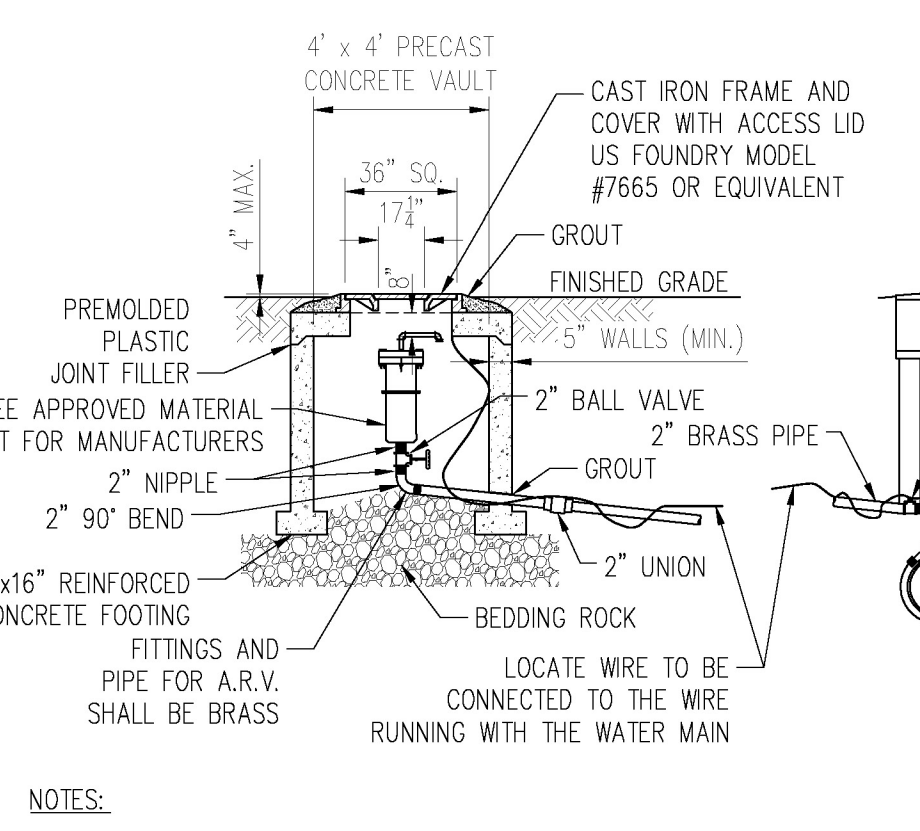
- NOTES:**
- ALL PIPE AND FITTINGS SHALL BE BRASS WITH THREADED (NPT) JOINTS.
 - THE CONTRACTOR SHALL CONTACT THE INSPECTOR FOR EXACT ASSEMBLY LENGTH AND HEIGHT ABOVE THE SLAB REQUIRED FOR THE FIRE LINE MASTER METER TO BE INSTALLED. ALL WIRE, FITTINGS AND APPURTENANCES SHALL BE INSTALLED BY THE CONTRACTOR.
 - ALL PIPE LARGER THAN 2 INCH SHALL BE FLANGED DUCTILE IRON PIPE.
 - SENSUS METER REQUIRED.
 - 2" BYPASS METER SHALL BE CONSTRUCTED ON ALL MASTER METER ASSEMBLIES THREE INCHES AND LARGER.

13 BACKFLOW PREVENTER ASSEMBLY
N.T.S.



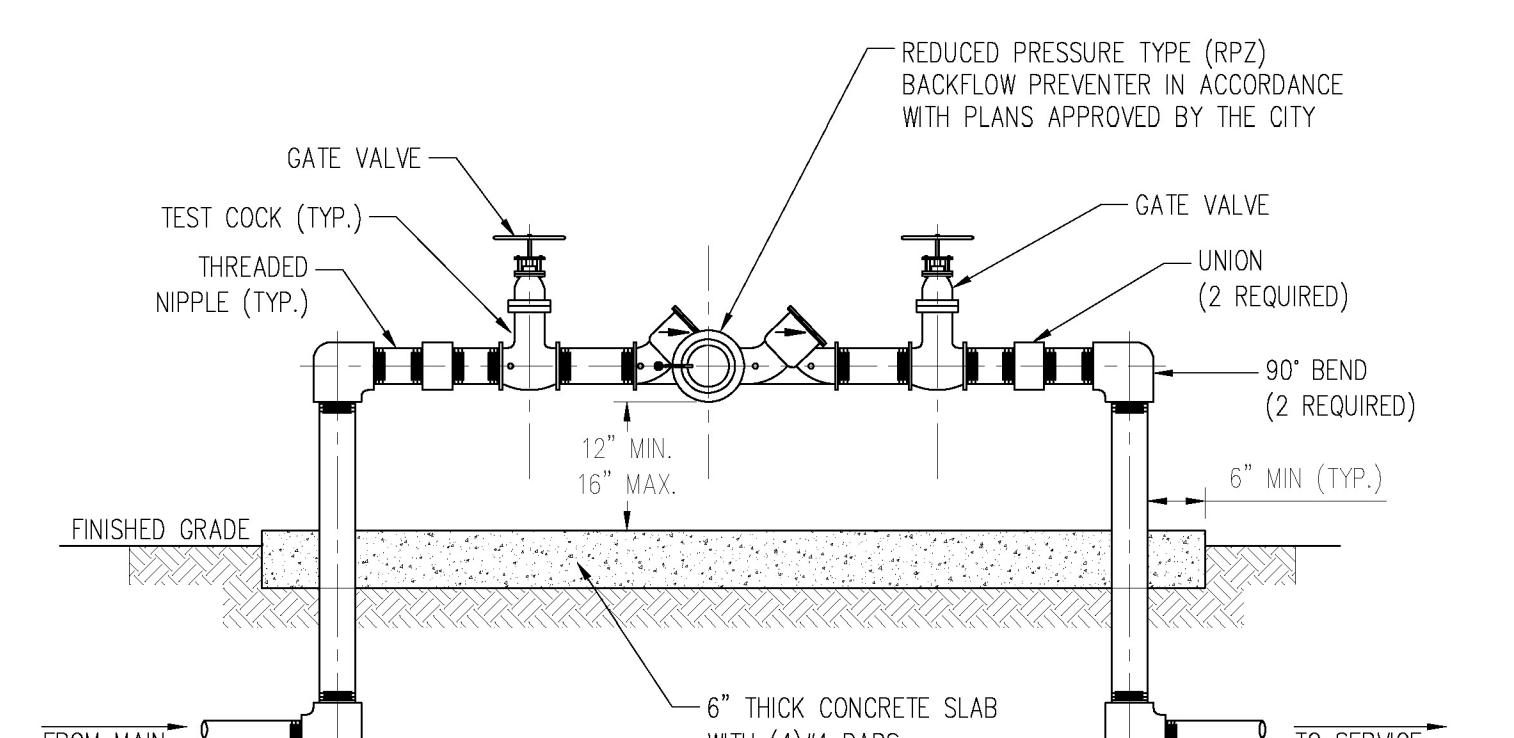
- NOTES:**
- THE CONTRACTOR SHALL CONTACT THE INSPECTOR FOR EXACT ASSEMBLY LENGTH AND HEIGHT ABOVE THE SLAB REQUIRED FOR THE FIRE LINE MASTER METER TO BE INSTALLED. ALL WIRE, FITTINGS AND APPURTENANCES SHALL BE INSTALLED BY THE CONTRACTOR.
 - ALL PIPE LARGER THAN 2 INCH SHALL BE FLANGED DUCTILE IRON PIPE.
 - SENSUS METER REQUIRED.
 - 2" BYPASS METER SHALL BE CONSTRUCTED ON ALL MASTER METER ASSEMBLIES THREE INCHES AND LARGER.

14 STANDARD BEDDING DETAIL
N.T.S.



- NOTES:**
- THE MINIMUM DIMENSION FROM TOP OF PIPE TO FINISHED GRADE SHALL BE 4.0 FEET.
 - DOUBLE STRAP SADDLE AND WRAP WITH TWO LAYERS OF WIDE PLASTIC OR POLY TAPE WITH STAINLESS STEEL STRAP.
 - PIPE INSTALLATION SHALL BE SUCH THAT THE A.R.V. IS LOCATED AT THE HIGHEST POINT IN THE RESPECTIVE SEGMENT.
 - INTERIOR AND EXTERIOR CONCRETE SURFACES SHALL RECEIVE PROTECTIVE COATING AS SPECIFIED FOR VALVE VAULTS.
 - CAST IRON FRAME, COVER AND ACCESS LID SHALL BE INSTALLED FLUSH WITH FINISHED GRADE.
 - COVER SHALL READ "WINTER GARDEN UTILITIES DIVISION, "SEWER" RECLAIMED WATER OR POTABLE WATER".
 - NO GALVANIZED PIPE/VALVES.
 - LOCATE WIRE IN THE ARV VAULT SHALL BE SPliced TO THE WIRE RUNNING WITH THE WATER MAIN AND EXCESS WIRE TO BE PLACED IN ARV VAULT. THE POINT OF CONNECTION AT THE MAIN SHALL HAVE A WATER PROOF CONNECTOR.

15 FIRE HYDRANT ASSEMBLY
N.T.S.

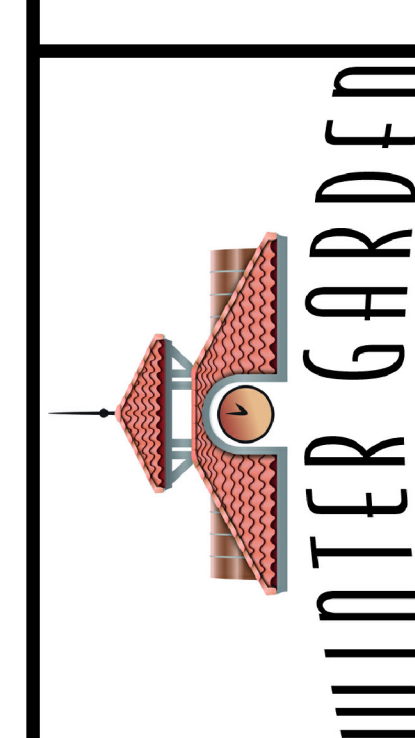


- NOTES:**
- ALL PIPE AND FITTINGS 2" AND SMALLER SHALL BE THREADED SCHEDULE 80 PVC. NO GALVANIZED PIPE WILL BE APPROVED.
 - ALL PIPE LARGER THAN 2" SHALL BE FLANGED DUCTILE IRON PIPE.
 - NO GALVANIZED PIPE ALLOWED.

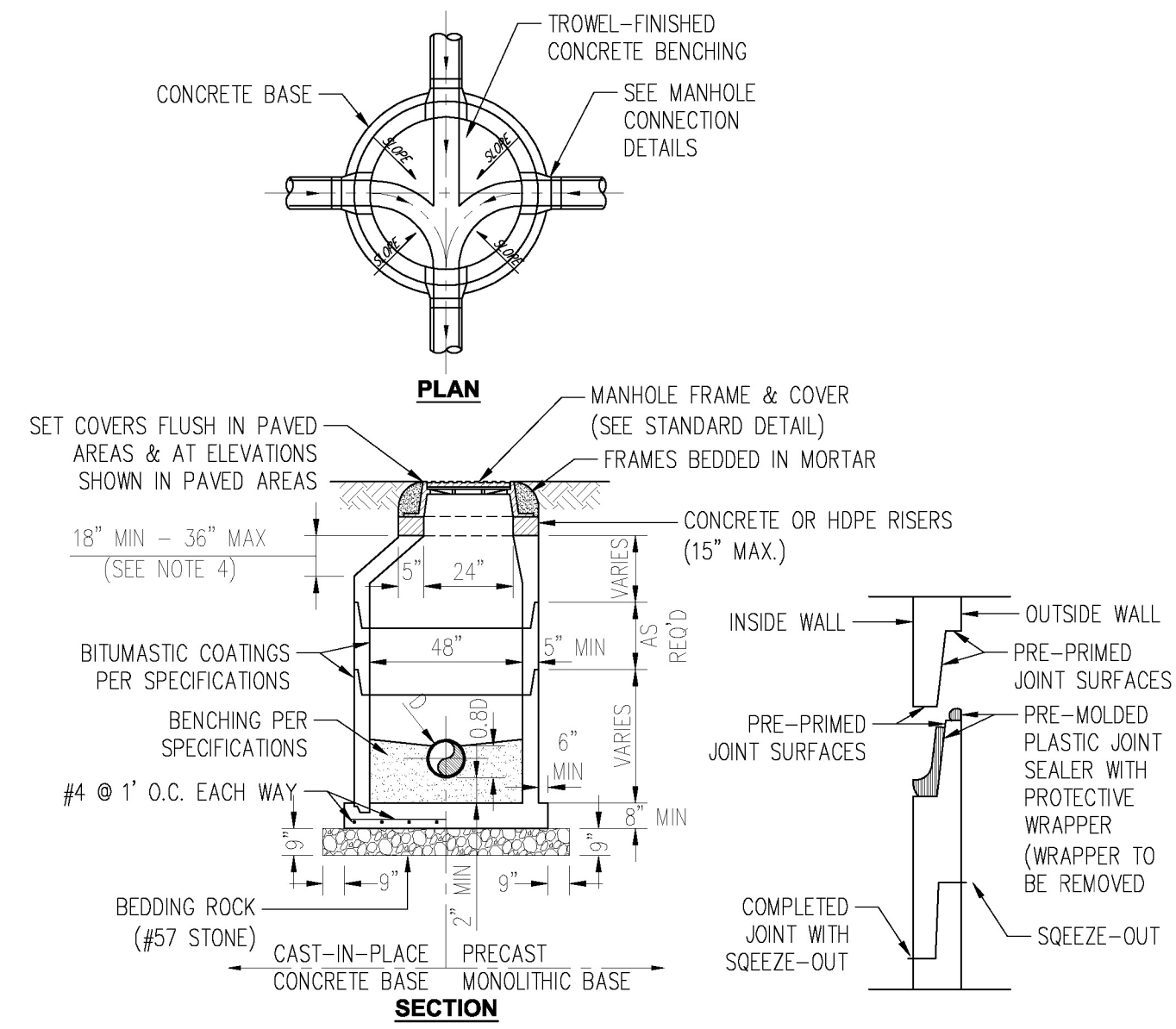
16 WATER SERVICE DETAIL
N.T.S.

DATE	ITEM	NO.
4/4/14	Water Service	1
4/4/14	ARY Detail	2

CITY OF WINTER GARDEN, FLORIDA
STANDARDS AND SPECIFICATIONS
FOR UTILITIES CONSTRUCTION

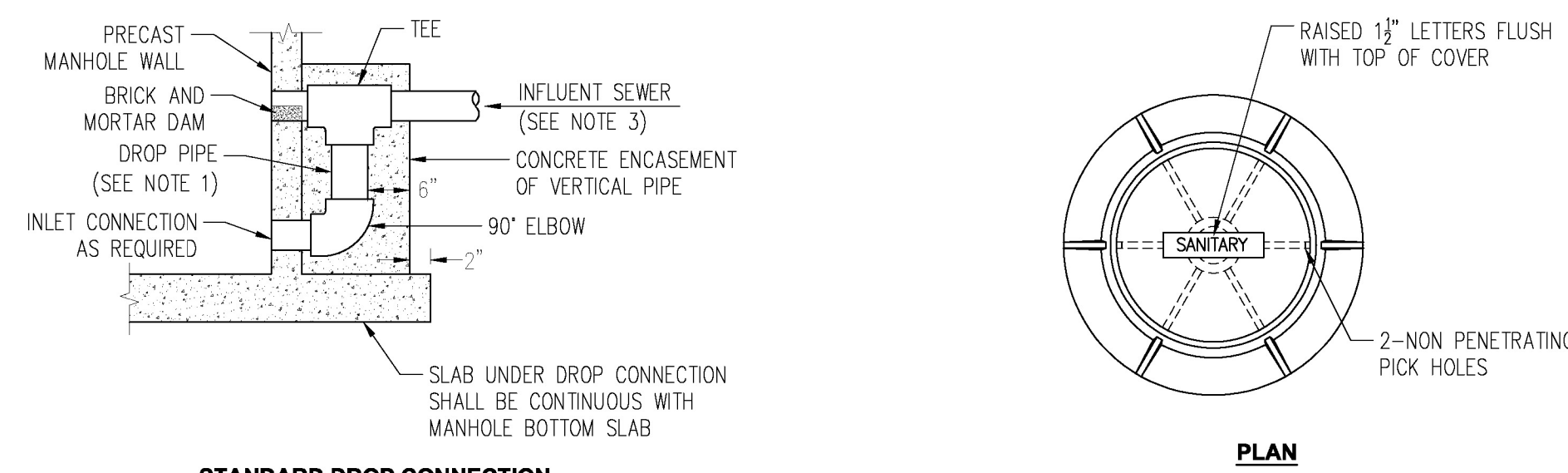


STANDARD DETAILS
FOR
POTABLE WATER SYSTEMS

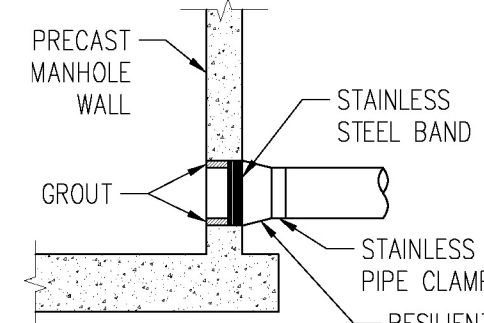


- NOTES:**
- DROP CONNECTIONS ARE REQUIRED WHENEVER INVERT OF INFLUENT SEWER IS 24" OR MORE ABOVE THE INVERT OF THE MANHOLE. SEE MANHOLE CONNECTION DETAILS. ALL DROPS TO BE OUTSIDE OF THE MANHOLE.
 - E-Z RAPP OUTSIDE ALL JOINTS
 - GROUT WITH NON-SHRINKING GROUT INSIDE JOINTS
 - NO CONES OVER 3 FT. TALL
 - ALL PRECAST CONCRETE SHALL BE COATED INSIDE AND OUTSIDE WITH COAL TAR EPOXY, MINIMUM 16 MIL DMT.

1 PRECAST CONCRETE SANITARY MANHOLE
N.T.S.



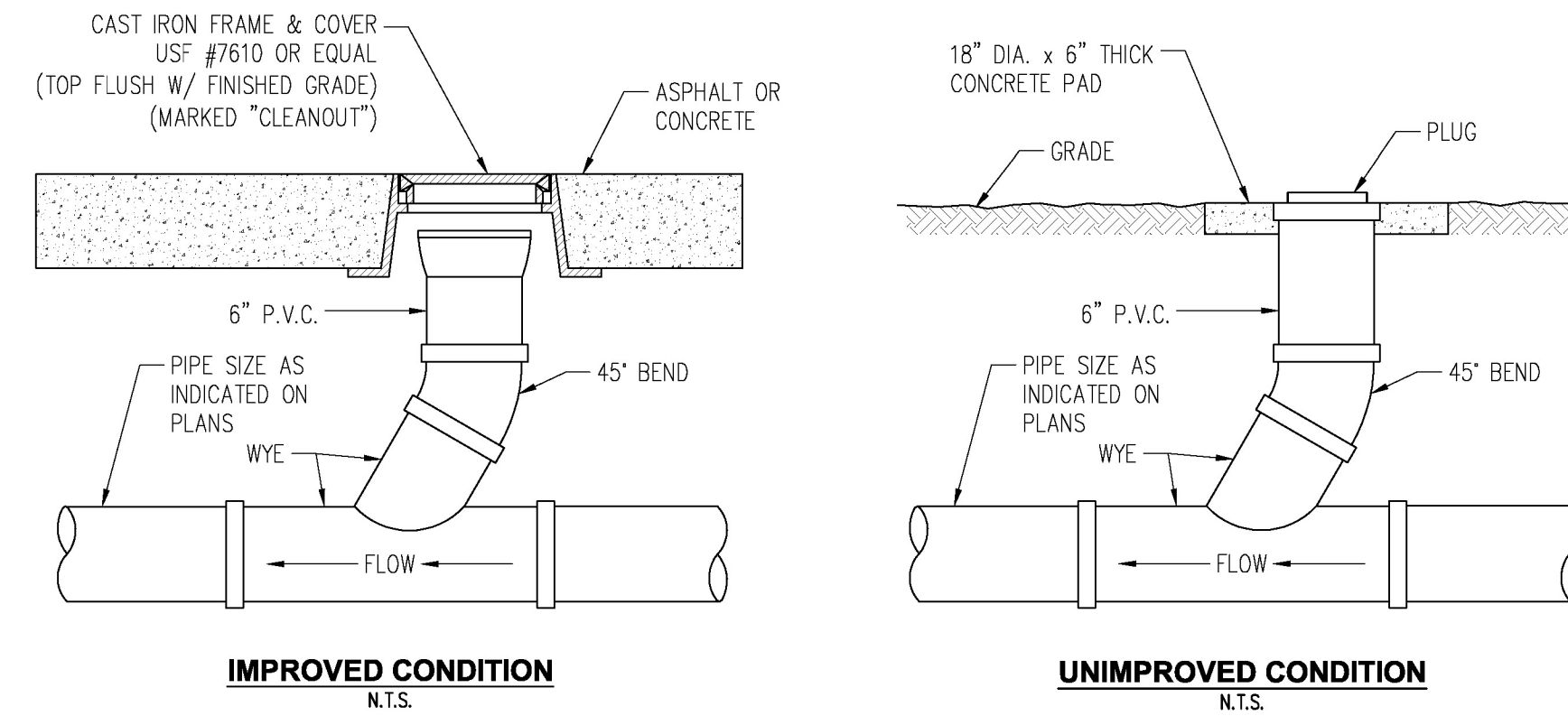
STANDARD DROP CONNECTION



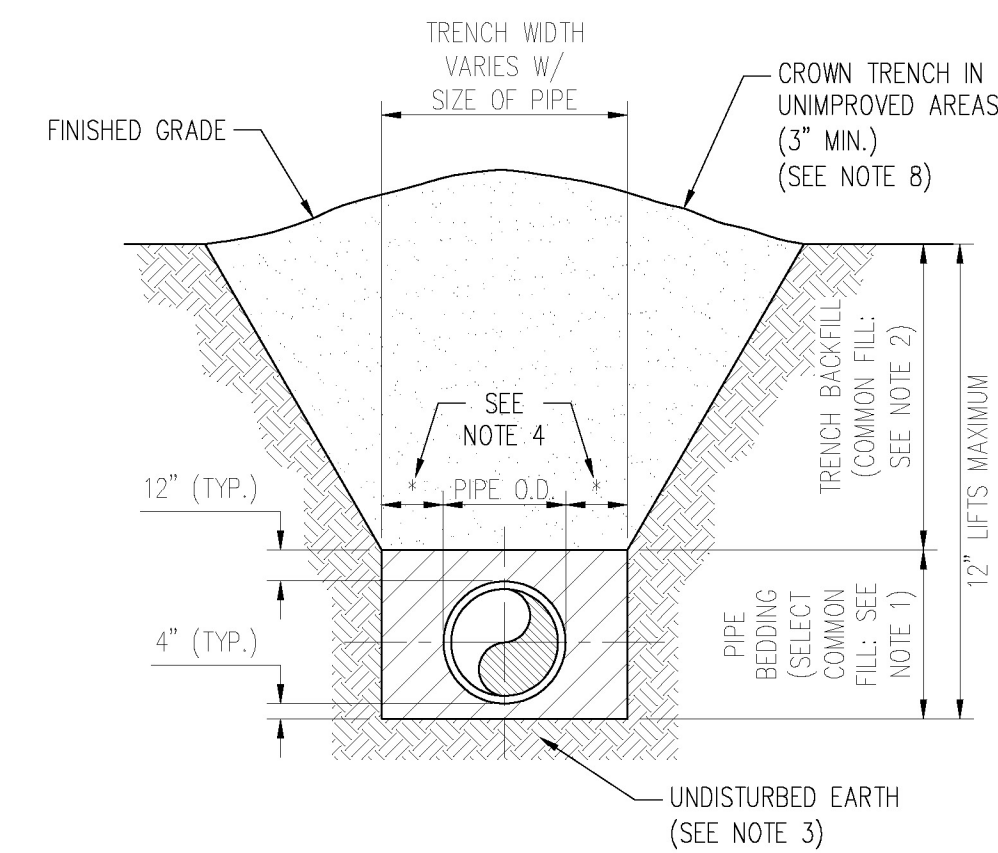
PRECAST MANHOLE CONNECTION

- NOTES:**
- DROP PIPE AND FITTINGS SHALL BE OF EQUAL SIZE AND MATERIAL AS THE INFLUENT SEWER.
 - AN OUTSIDE DROP CONNECTION SHALL BE REQUIRED FOR ALL INFLUENT WHICH HAVE AN INVERT 2' OR MORE ABOVE THEN MANHOLE INVERT.

2 MANHOLE CONNECTION DETAIL
N.T.S.

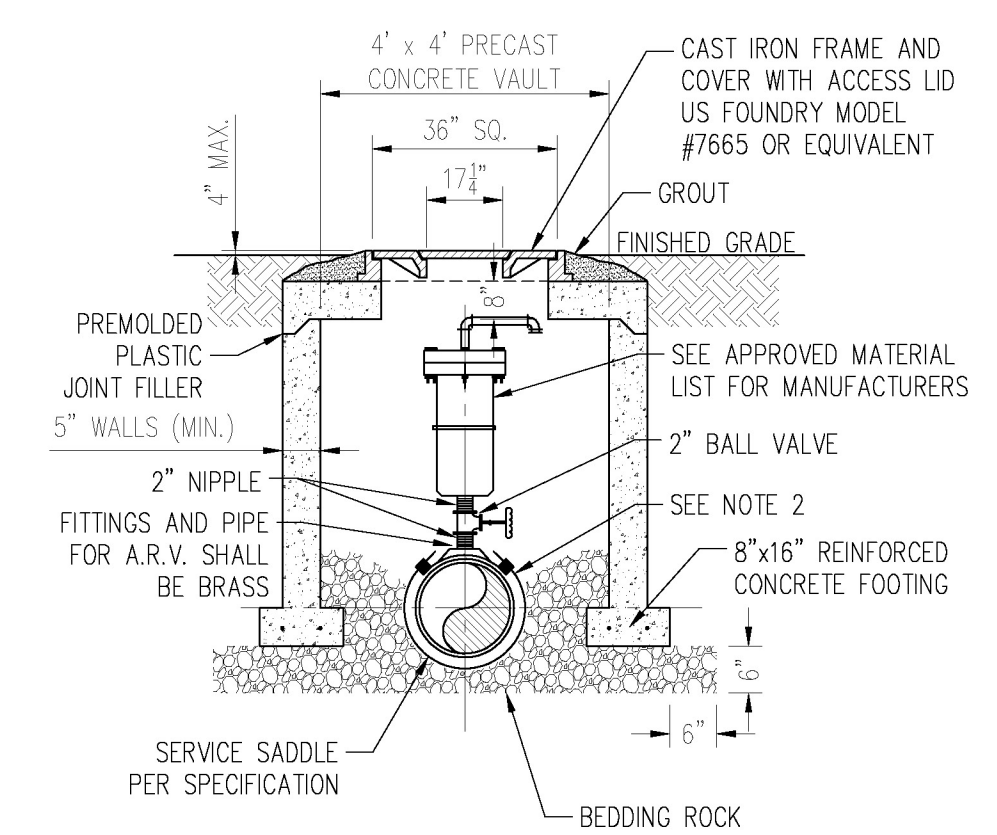


3 MANHOLE FRAME AND COVER
N.T.S.



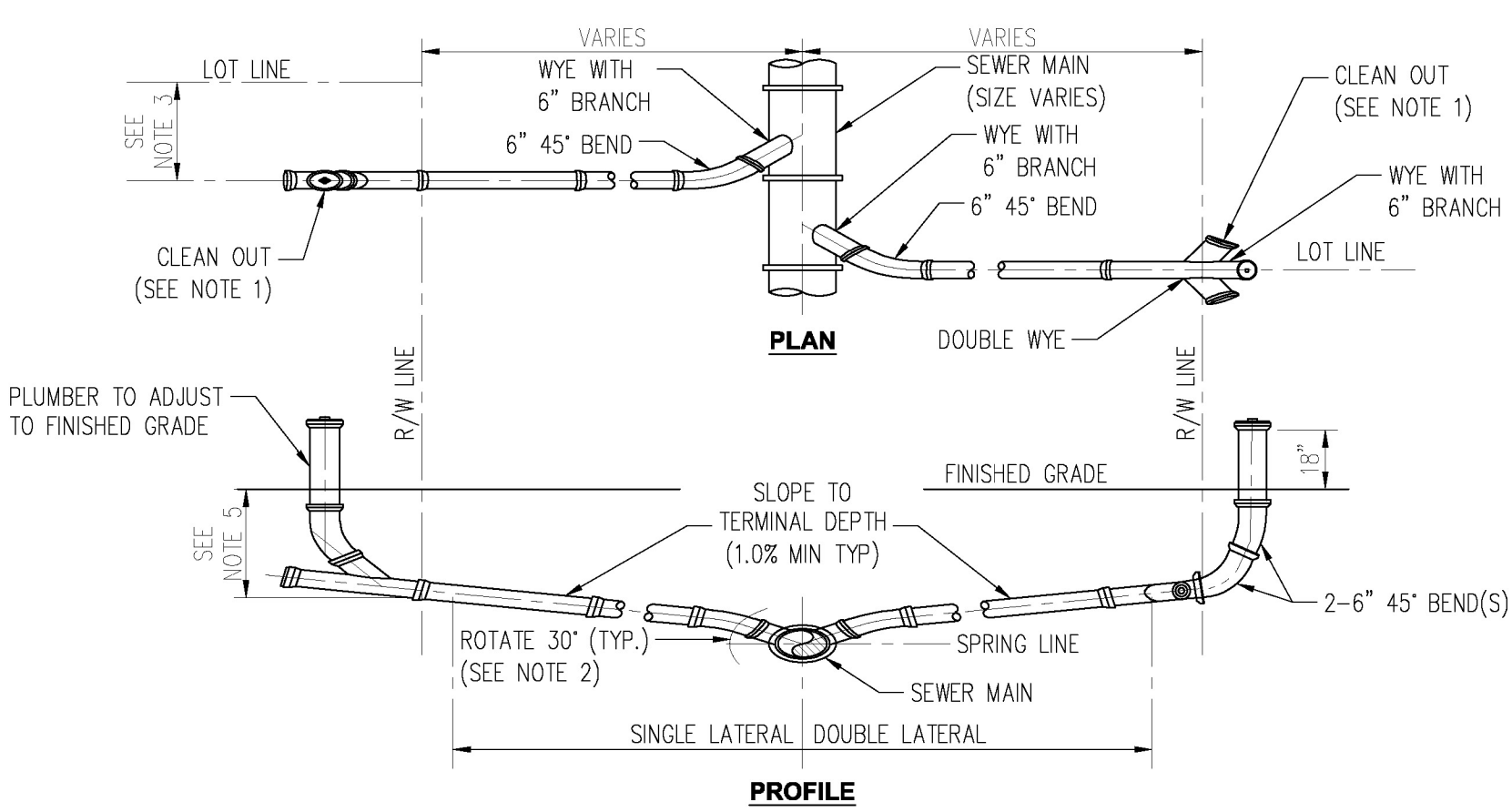
- NOTES:**
- PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 98% OF THE MAXIMUM DENSITY AS PER AASHTO T-180 AND CONTAINING NO MORE THAN 5% PASSING #200 SIEVE.
 - TRENCH BACKFILL: COMMON FILL COMPACTED TO 98% OF THE MAXIMUM DENSITY AS PER AASHTO T-180 AND CONTAINING NO MORE THAN 5% PASSING #200 SIEVE.
 - PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE A BEDDING AND TRENCHING MAY BE REQUIRED AS DIRECTED BY THE CITY OF WINTER GARDEN.
 - (*) 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" LARGER.
 - WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
 - ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
 - REFER TO SECTION 32.5 OF THE CITY OF WINTER GARDEN MANUAL OF STANDARDS AND SPECIFICATIONS FOR WASTEWATER AND WATER MAIN CONSTRUCTION FOR SHEETING AND BRACING IN EXCAVATIONS.
 - FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN CITY OF WINTER GARDEN RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.

4 STANDARD BEDDING DETAIL
N.T.S.



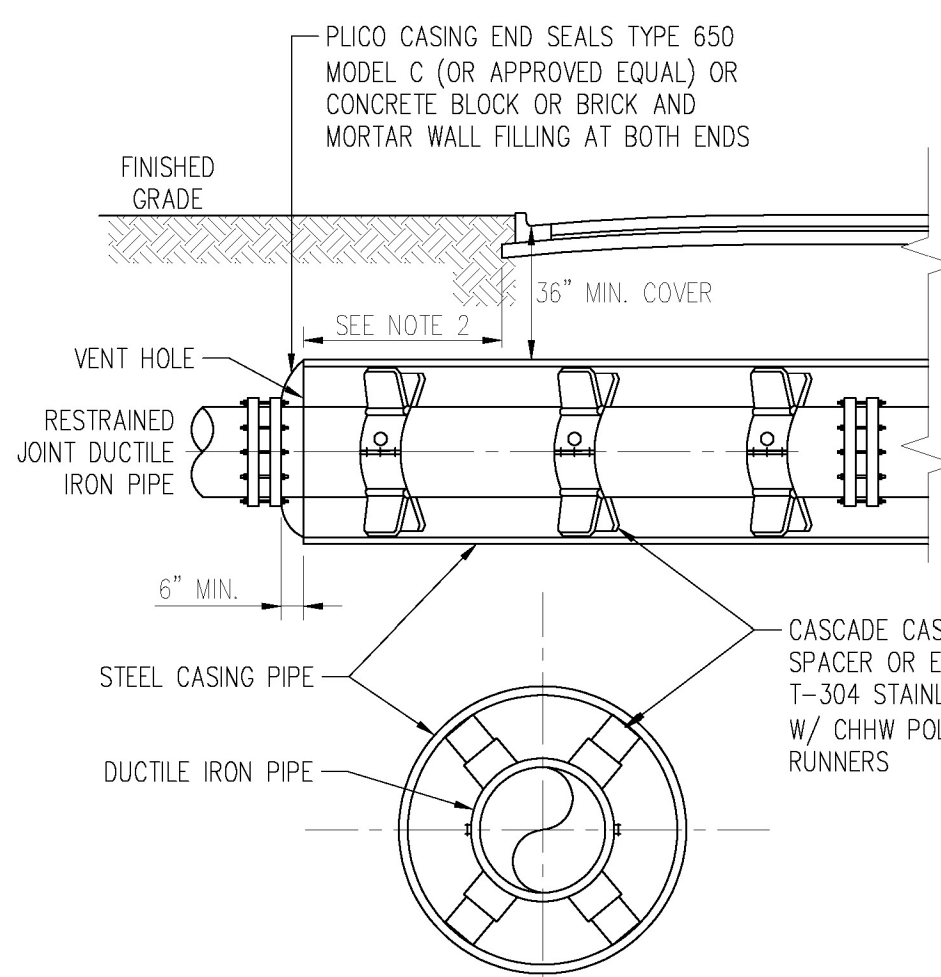
- NOTES:**
- THE MINIMUM DIMENSION FROM TOP OF PIPE TO FINISHED GRADE SHALL BE 3.0 FEET.
 - DOUBLE STRAP SADDLE AND WRAP WITH TWO LAYERS OF WIDE PLASTIC OR POLY TAPE WITH STAINLESS STEEL STRAP.
 - PIPE INSTALLATION SHALL BE SUCH THAT THE A.R.V. IS LOCATED AT THE HIGHEST POINT IN THE RESPECTIVE SEGMENT.
 - INTERIOR AND EXTERIOR CONCRETE SURFACES SHALL RECEIVE PROTECTIVE COATING AS SPECIFIED FOR VALVE VAULTS.
 - CAST IRON FRAME, COVER AND ACCESS LID SHALL BE INSTALLED FLUSH WITH FINISHED GRADE.
 - COVER SHALL READ "WINTER GARDEN UTILITIES DIVISION AND "WASTEWATER".
 - NO GALVANIZED PIPE/VALVES.

5 AIR RELEASE VALVE & VAULT
N.T.S.



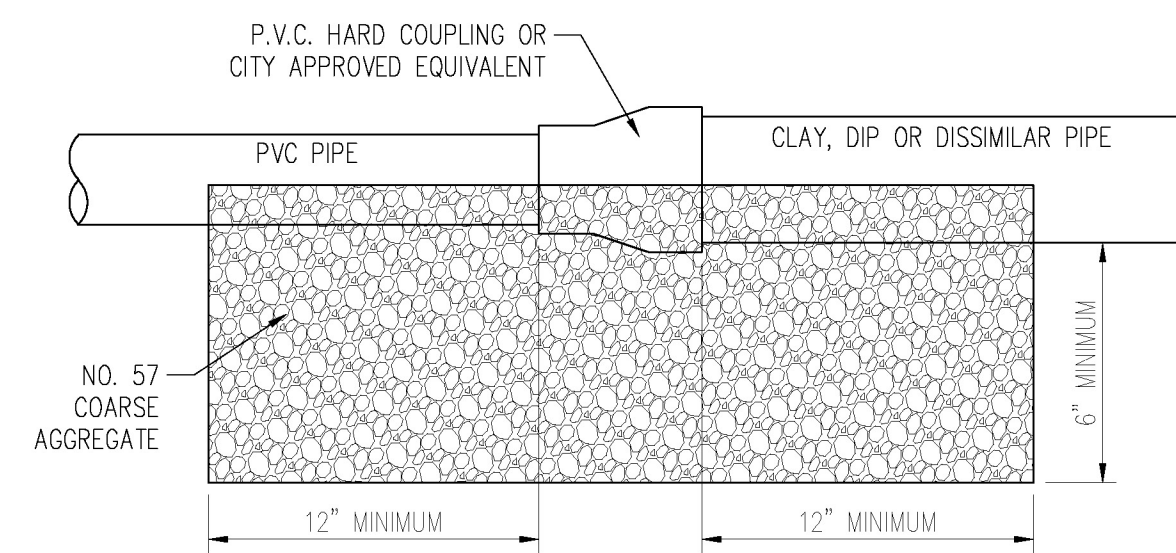
- NOTES:**
- CLEANOUT SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH STANDARD PLUMBING CODE.
 - INVERT OF SERVICE LATERAL SHALL NOT ENTER SEWER MAIN BELOW SPRING LINE.
 - WYES AND 45° BENDS SHALL BE PVC (SDR 26).
 - LOCATE SINGLE LATERAL AS CLOSE TO LOT LINE AS POSSIBLE, 25' MAXIMUM.
 - 4" TYP TERMINAL DEPTH (3" MIN) REQUIRED FOR SERVICE AT RIGHT-OF-WAY.

7 SANITARY SEWER SERVICE LATERAL DETAIL
N.T.S.



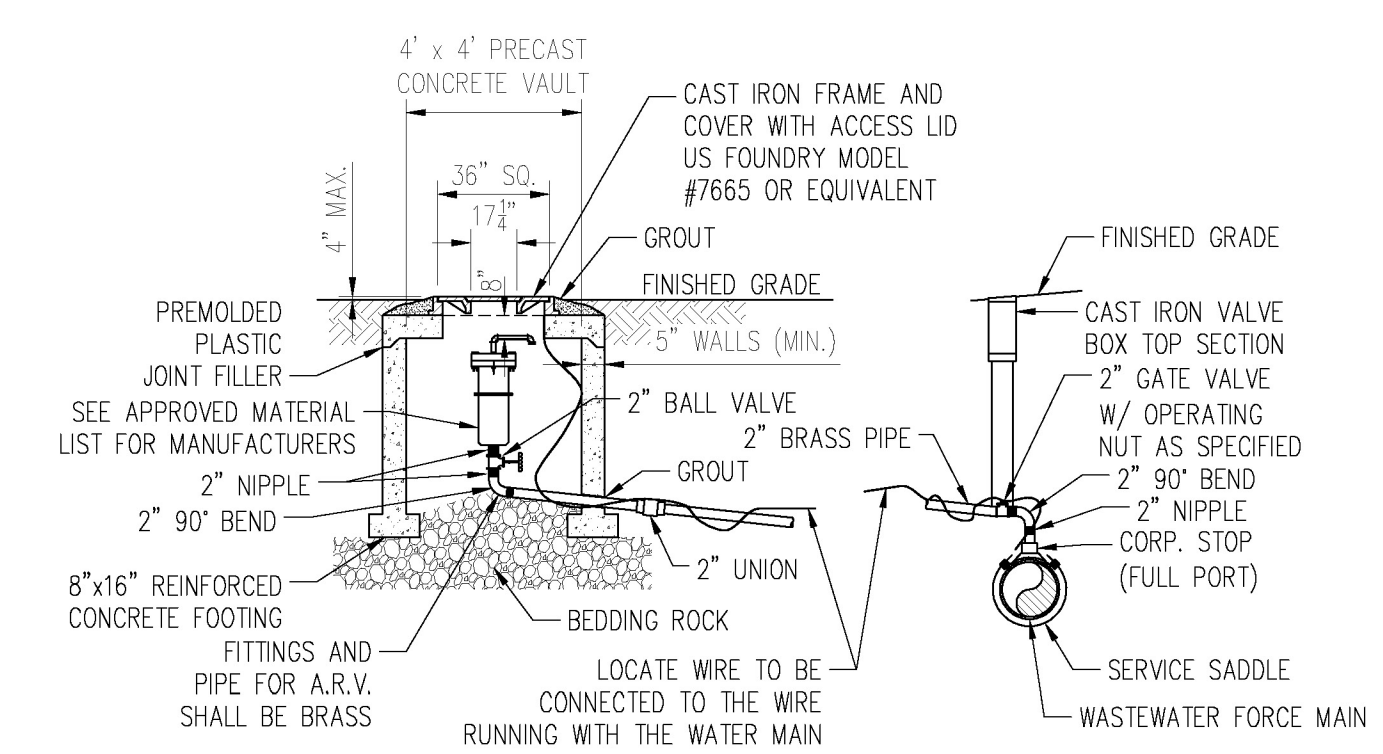
- NOTES:**
- WHERE PRACTICAL, CASING SHALL EXTEND 8' BEYOND EDGE OF PAYMENT AND SHALL NOT BE LESS THAN 6' BEYOND EDGE OF PAYMENT IN ANY CASE.
 - CASING SPACERS AND END SEALS TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
 - DESIGN ENGINEER TO DETERMINE NEED FOR SACRIFICIAL ANODE (S) FOR CORROSION CONTROL.

8 SEWER MAIN STEEL CASING DETAIL
N.T.S.



- NOTE:**
- FIELD VERIFY MATERIALS OF EXISTING PIPES TO SELECT PROPER CONNECTOR.
 - HARBICO COUPLING OR APPROVED EQUIVALENT FOR ALL PIPE MATERIALS, UNLESS APPROVED IN WRITING BY THE CITY.

9 SEWER MAIN CONNECTION DETAIL
N.T.S.



- NOTES:**
- THE MINIMUM DIMENSION FROM TOP OF PIPE TO FINISHED GRADE SHALL BE 4.0 FEET.
 - DOUBLE STRAP SADDLE AND WRAP WITH TWO LAYERS OF WIDE PLASTIC OR POLY TAPE WITH STAINLESS STEEL STRAP.
 - PIPE INSTALLATION SHALL BE SUCH THAT THE A.R.V. IS LOCATED AT THE HIGHEST POINT IN THE RESPECTIVE SEGMENT.
 - INTERIOR AND EXTERIOR CONCRETE SURFACES SHALL RECEIVE PROTECTIVE COATING AS SPECIFIED FOR VALVE VAULTS.
 - CAST IRON FRAME, COVER AND ACCESS LID SHALL BE INSTALLED FLUSH WITH FINISHED GRADE.
 - COVER SHALL READ "WINTER GARDEN UTILITIES DIVISION, "SEWER" "RECLAIMED WATER OR POTABLE WATER".
 - NO GALVANIZED PIPE/VALVES.
 - LOCATE WIRE IN THE ARV VAULT SHALL BE SPLICED TO THE WIRE RUNNING WITH THE MAIN AND EXCESS WIRE TO BE PLACED IN ARV VAULT. THE POINT OF CONNECTION AT THE MAIN SHALL HAVE A WATER PROOF CONNECTOR.

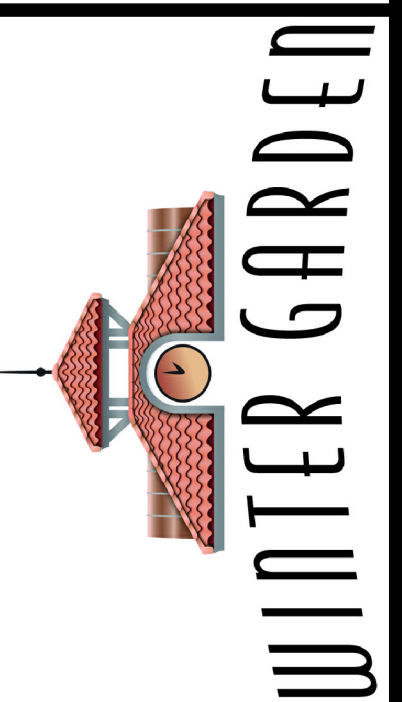
10 OFFSET AIR RELEASE VALVE ASSEMBLY
N.T.S.

WINTER GARDEN STANDARDS INCORPORATED WITH DESIGN ENGINEERS DOCUMENTS.

THE DETAILS, NOTES AND SPECIFICATIONS SHOWN ON THIS SHEET REPRESENT THE NOTED STANDARDS OF THE CITY OF WINTER GARDEN FOR CONSTRUCTION OF PUBLIC WORKS AND UTILITY INFRASTRUCTURE. BY INCLUDING THE STANDARDS, THE DESIGN ENGINEER HAS ACKNOWLEDGED THAT THEY ARE EFFECTIVE TO THE PROJECT AND THAT DETAILS, NOTES, OR SPECIFICATIONS ARE AS PROVIDED BY THE CITY AND HAVE NOT BEEN REVISED OR MODIFIED WITHOUT WRITTEN APPROVAL FROM THE CITY ENGINEER OR UTILITY DIRECTOR.

DATE	ITEM	DESCRIPTION
4/7/14 <td>Sanitary Manhole <td></td> </td>	Sanitary Manhole <td></td>	
4/7/14 <td>Offset ARV Detail <td></td> </td>	Offset ARV Detail <td></td>	

CITY OF WINTER GARDEN, FLORIDA
STANDARDS AND SPECIFICATIONS
FOR UTILITIES CONSTRUCTION

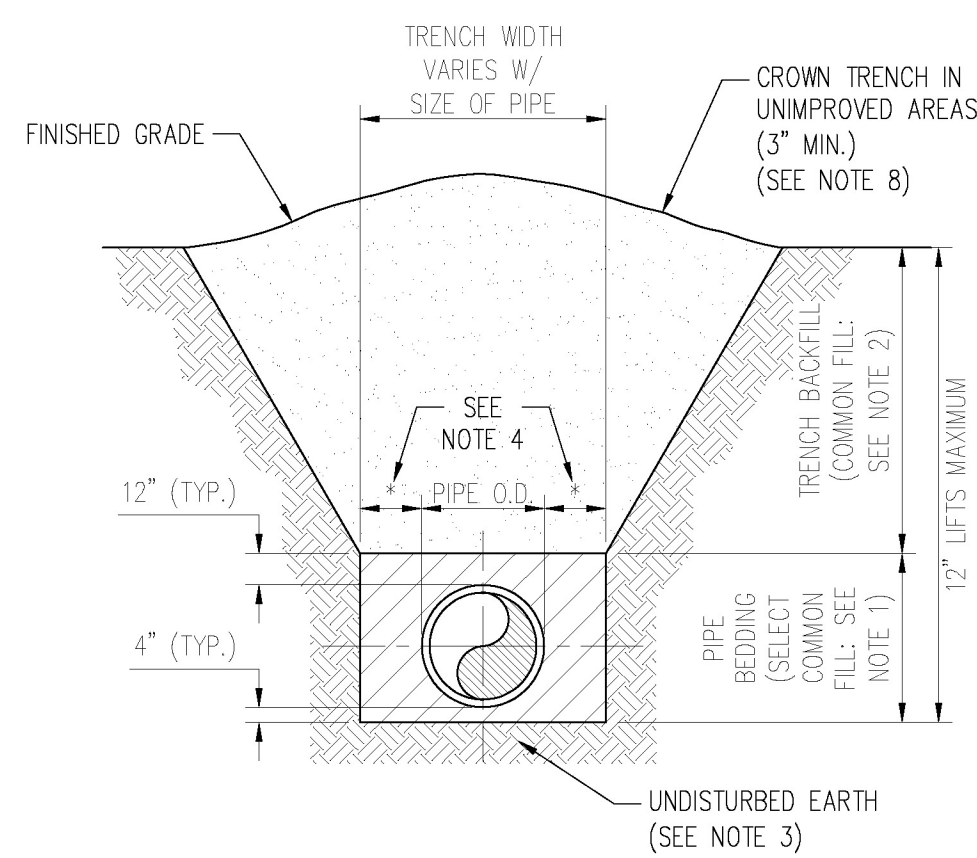


STANDARD DETAILS
FOR
WASTEWATER SYSTEMS

DATE
JUNE 2018
SHEET

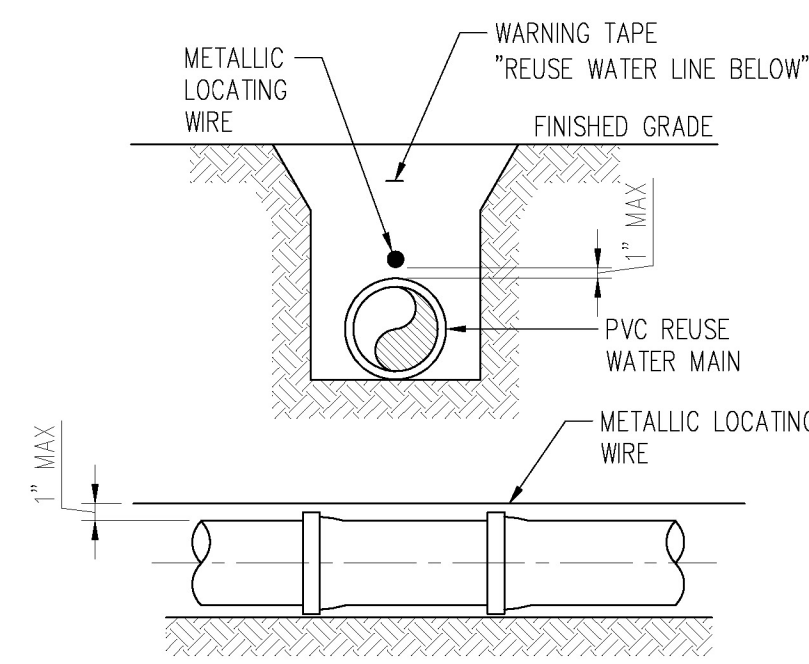
3

3 OF 11



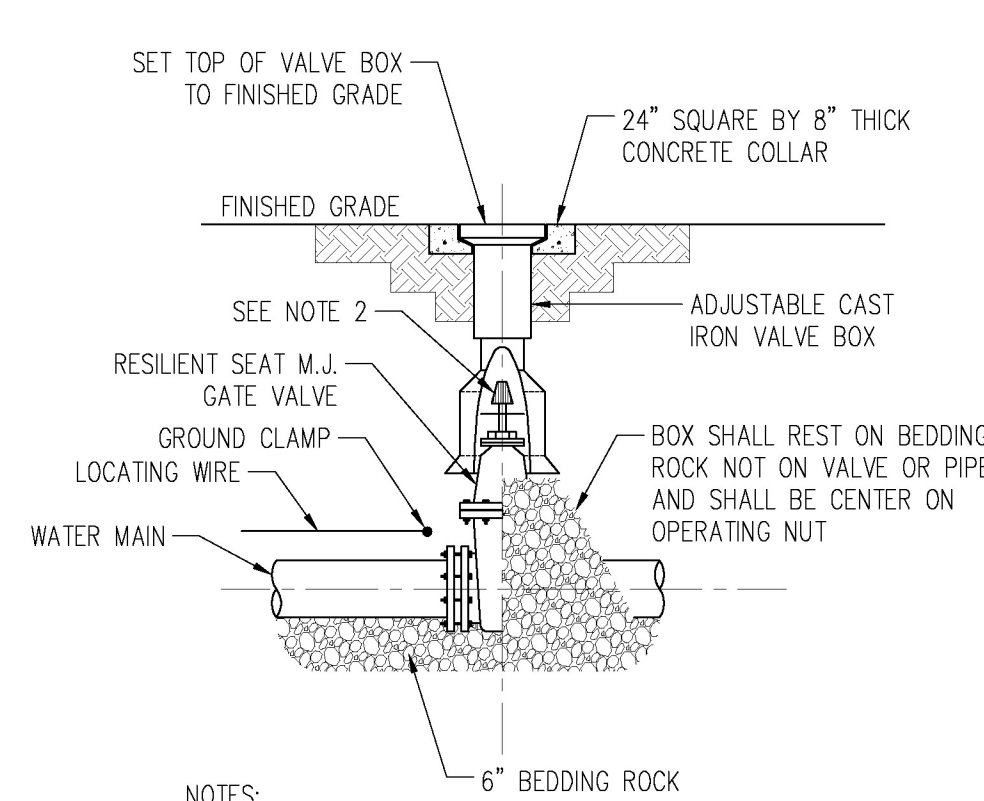
- NOTES:**
- PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 98% OF THE MAXIMUM DENSITY AS PER AASHTO T-180 AND CONTAINING NO MORE THAN 5% PASSING #200 SIEVE.
 - TRENCH BACKFILL: COMMON FILL COMPACTED TO 98% OF THE MAXIMUM DENSITY AS PER AASHTO T-180 AND CONTAINING NO MORE THAN 5% PASSING #200 SIEVE.
 - PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE A BEDDING AND TRENCHING MAY BE REQUIRED AS DIRECTED BY THE CITY OF WINTER GARDEN.
 - (+): 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" LARGER.
 - WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
 - ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
 - REFER TO SECTION 32.5 OF THE CITY OF WINTER GARDEN MANUAL OF STANDARDS AND SPECIFICATIONS FOR WASTEWATER AND WATER MAIN CONSTRUCTION FOR SHEETING AND BRACING IN EXCAVATIONS.
 - FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN CITY OF WINTER GARDEN RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.

1 STANDARD BEDDING DETAIL
N.T.S.



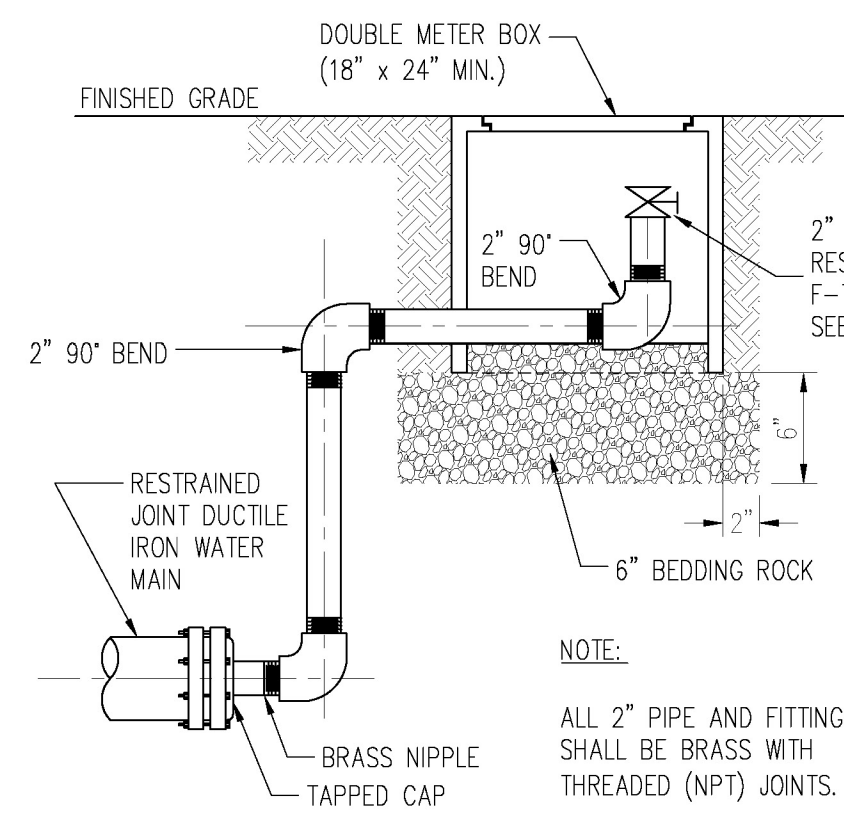
- NOTES:**
- PVC PIPE SHALL REQUIRE INSULATED METALLIC LOCATING WIRE (10 GAUGE COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR AND SHALL BE ATTACHED TO THE TOP OF PIPE WITH DUCT TAPE, AT LEAST 5 TIMES PER JOINT.
 - LOCATING ROD SHALL TERMINATE AT THE TOP OF EACH VALVE BOX AND BE CAPABLE OF EXTENDING ABOVE TOP OF BOX 3" SO AS NOT TO INTERFERE WITH VALVE OPERATION.

2 PVC PIPE LOCATING WIRE DETAIL
N.T.S.

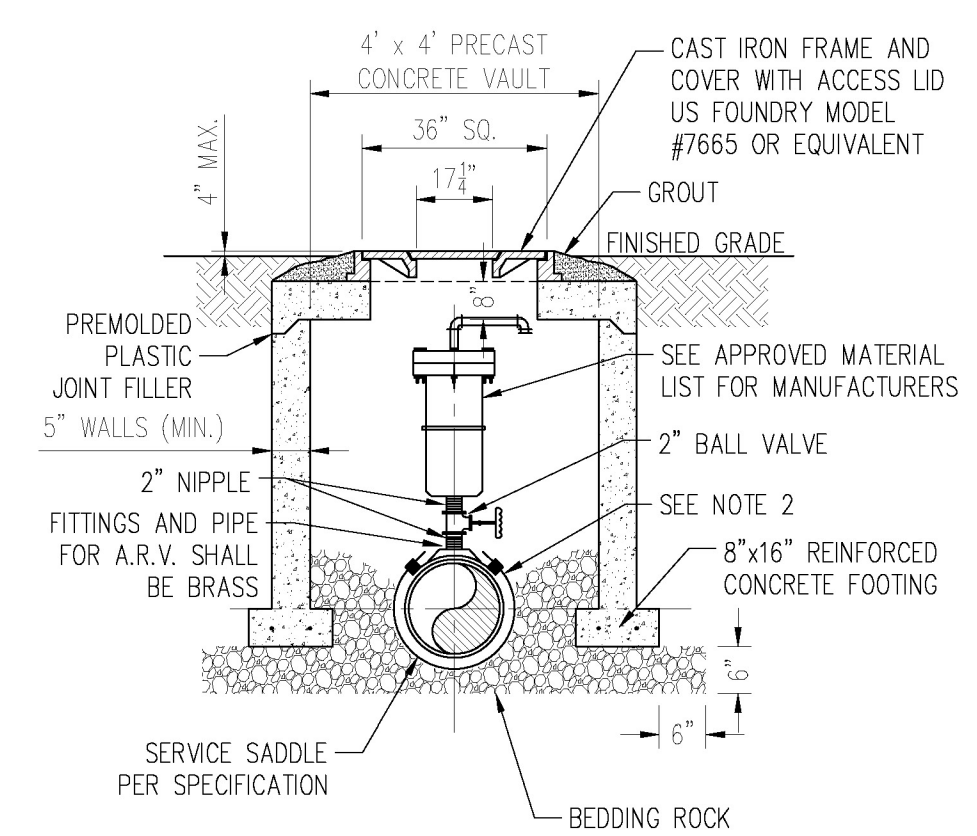


- NOTES:**
- PVC EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION.
 - THE ACTUATING NUT FOR DEEPER VALVES SHALL BE EXTENDED TO COME UP TO 4 FOOT DEPTH BELOW FINISHED GRADE.

3 GATE VALVE & BOX DETAIL
N.T.S.

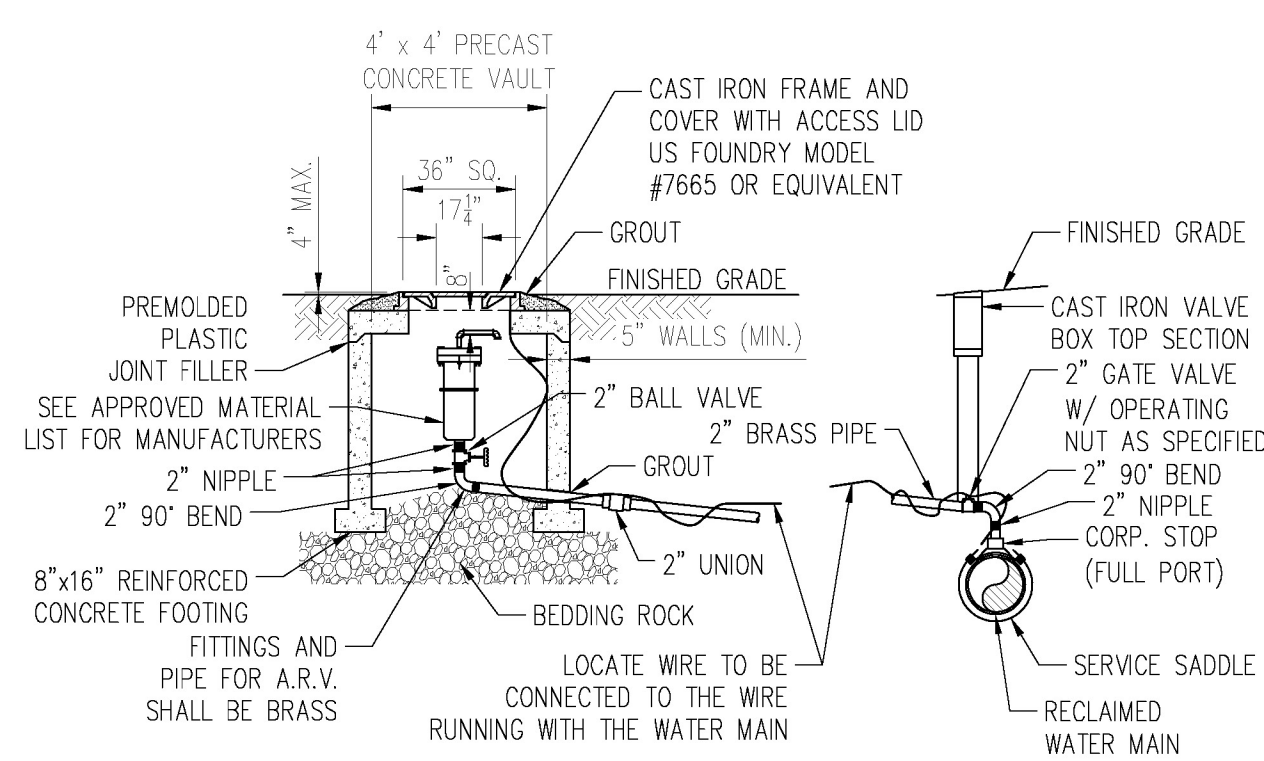


5 BLOWOFF VALVE DETAIL
N.T.S.



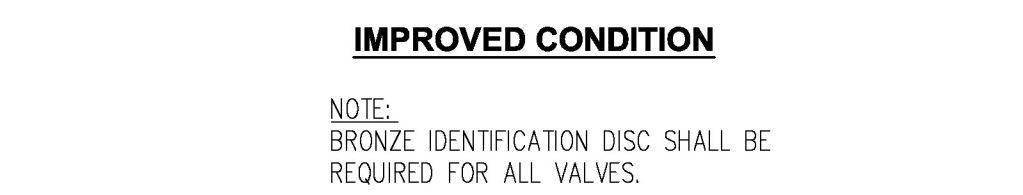
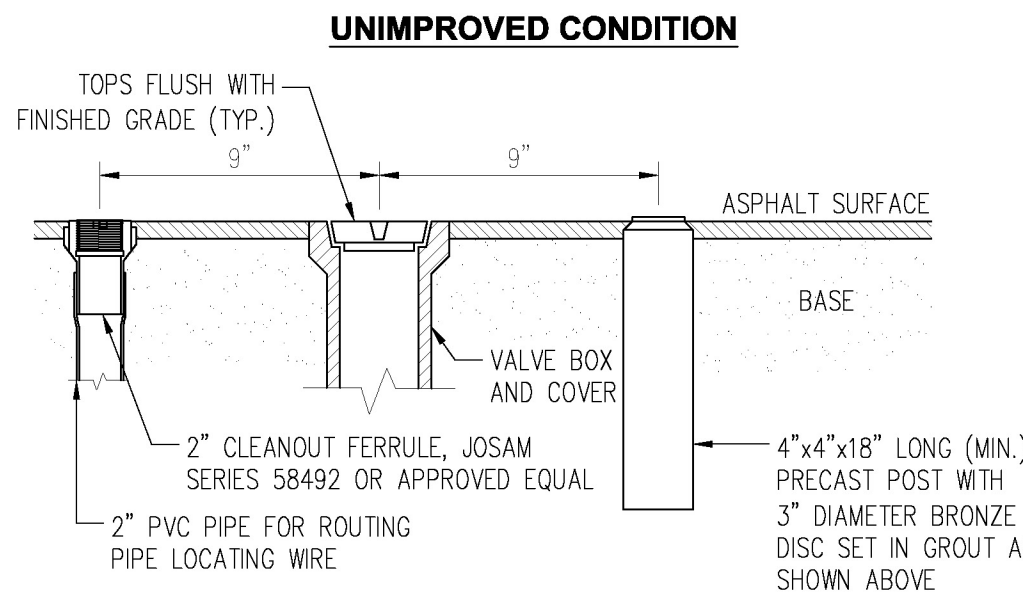
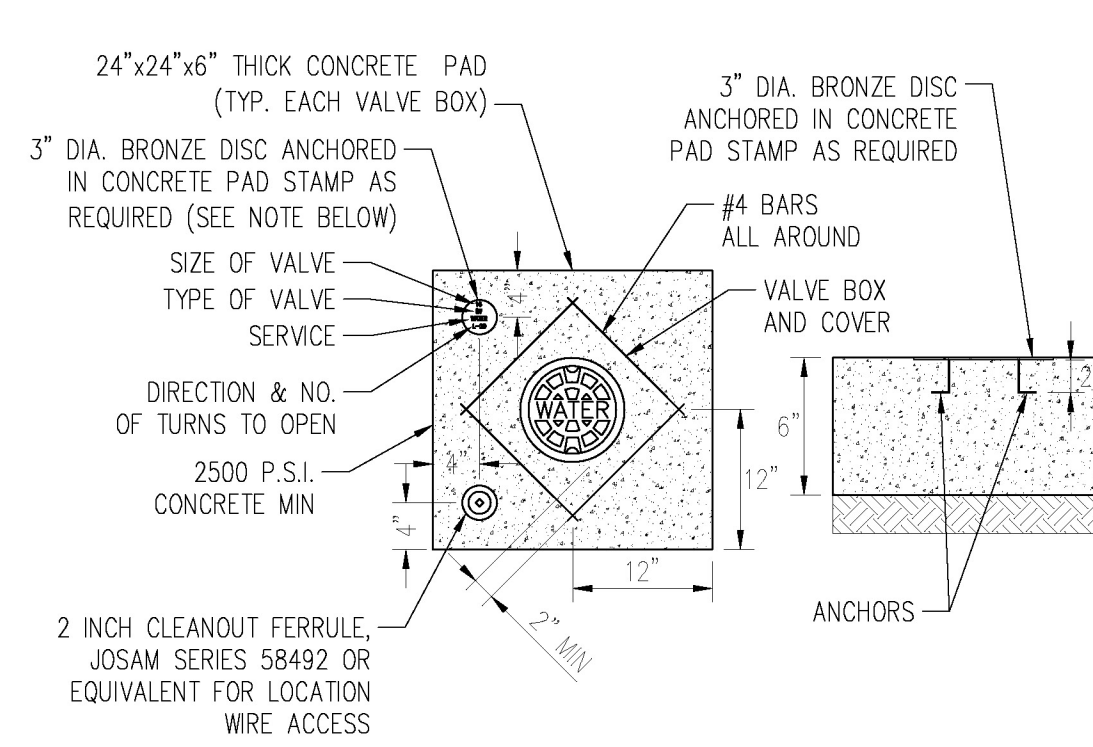
- NOTES:**
- THE MINIMUM DIMENSION FROM TOP OF PIPE TO FINISHED GRADE SHALL BE 3.0 FEET.
 - DOUBLE STRAP SADDLE AND WRAP WITH TWO LAYERS OF WIDE PLASTIC OR POLY TAPE WITH STAINLESS STEEL STRAP.
 - PIPE INSTALLATION SHALL BE SUCH THAT THE A.R.V. IS LOCATED AT THE HIGHEST POINT IN THE RESPECTIVE SEGMENT.
 - INTERIOR AND EXTERIOR CONCRETE SURFACES SHALL RECEIVE PROTECTIVE COATING AS SPECIFIED FOR VALVE VAULTS.
 - CAST IRON FRAME, COVER AND ACCESS LID SHALL BE INSTALLED FLUSH WITH FINISHED GRADE.
 - COVER SHALL READ "WINTER GARDEN UTILITIES DIVISION AND 'RECLAIMED WATER'".
 - NO GALVANIZED PIPE/VALVES.

8 AIR RELEASE VALVE & VAULT
N.T.S.

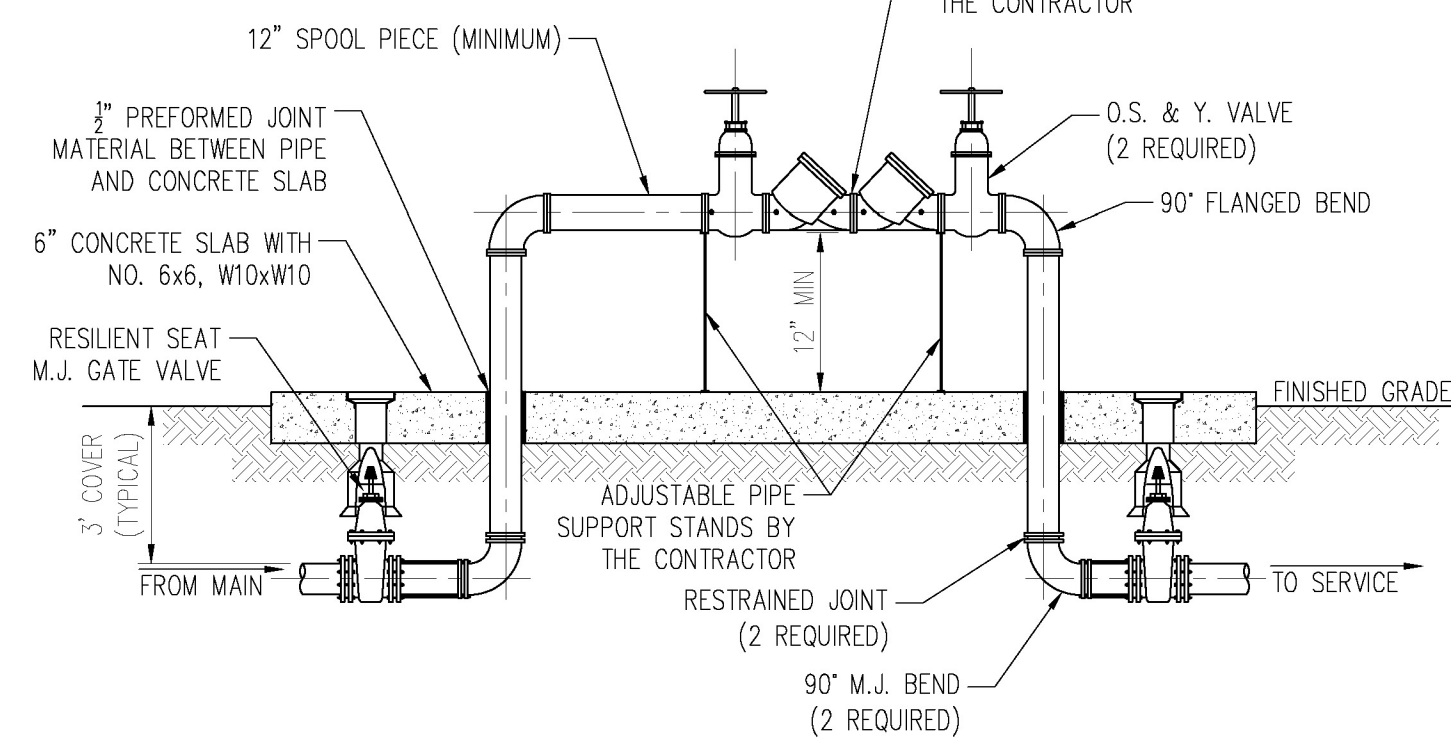


- NOTES:**
- THE MINIMUM DIMENSION FROM TOP OF PIPE TO FINISHED GRADE SHALL BE 4.0 FEET.
 - DOUBLE STRAP SADDLE AND WRAP WITH TWO LAYERS OF WIDE PLASTIC OR POLY TAPE WITH STAINLESS STEEL STRAP.
 - PIPE INSTALLATION SHALL BE SUCH THAT THE A.R.V. IS LOCATED AT THE HIGHEST POINT IN THE RESPECTIVE SEGMENT.
 - INTERIOR AND EXTERIOR CONCRETE SURFACES SHALL RECEIVE PROTECTIVE COATING AS SPECIFIED FOR VALVE VAULTS.
 - CAST IRON FRAME, COVER AND ACCESS LID SHALL BE INSTALLED FLUSH WITH FINISHED GRADE.
 - COVER SHALL READ "WINTER GARDEN UTILITIES DIVISION, 'SEWER' 'RECLAIMED WATER OR POTABLE WATER'".
 - NO GALVANIZED PIPE/VALVES.
 - LOCATE WIRE IN THE ARV VAULT SHALL BE SPLICED TO THE WIRE RUNNING WITH THE WATER MAIN AND EXCESS WIRE TO BE PLACED IN ARV VAULT. THE POINT OF CONNECTION AT THE MAIN SHALL HAVE A WATER PROOF CONNECTOR.

9 OFFSET AIR RELEASE VALVE ASSEMBLY
N.T.S.

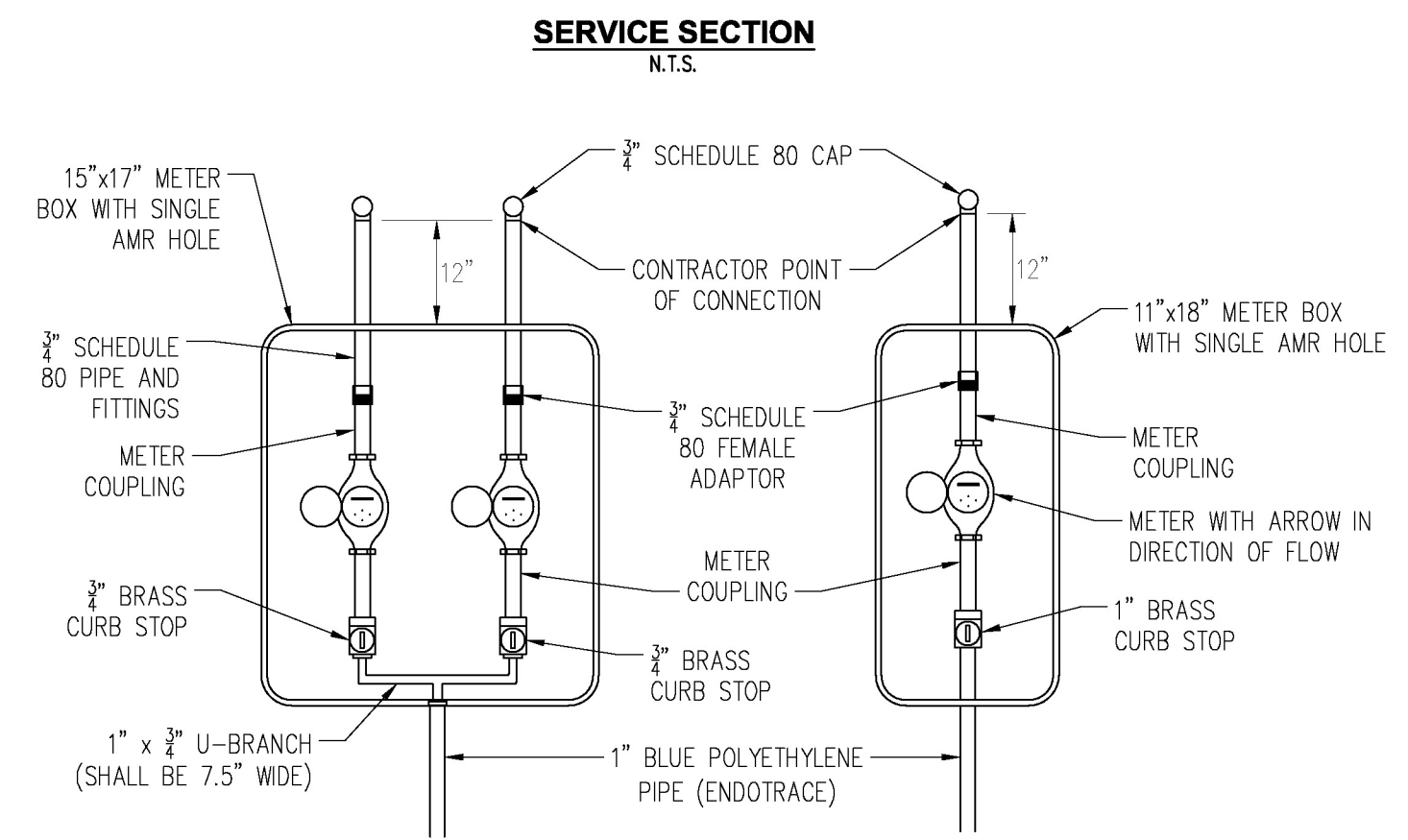
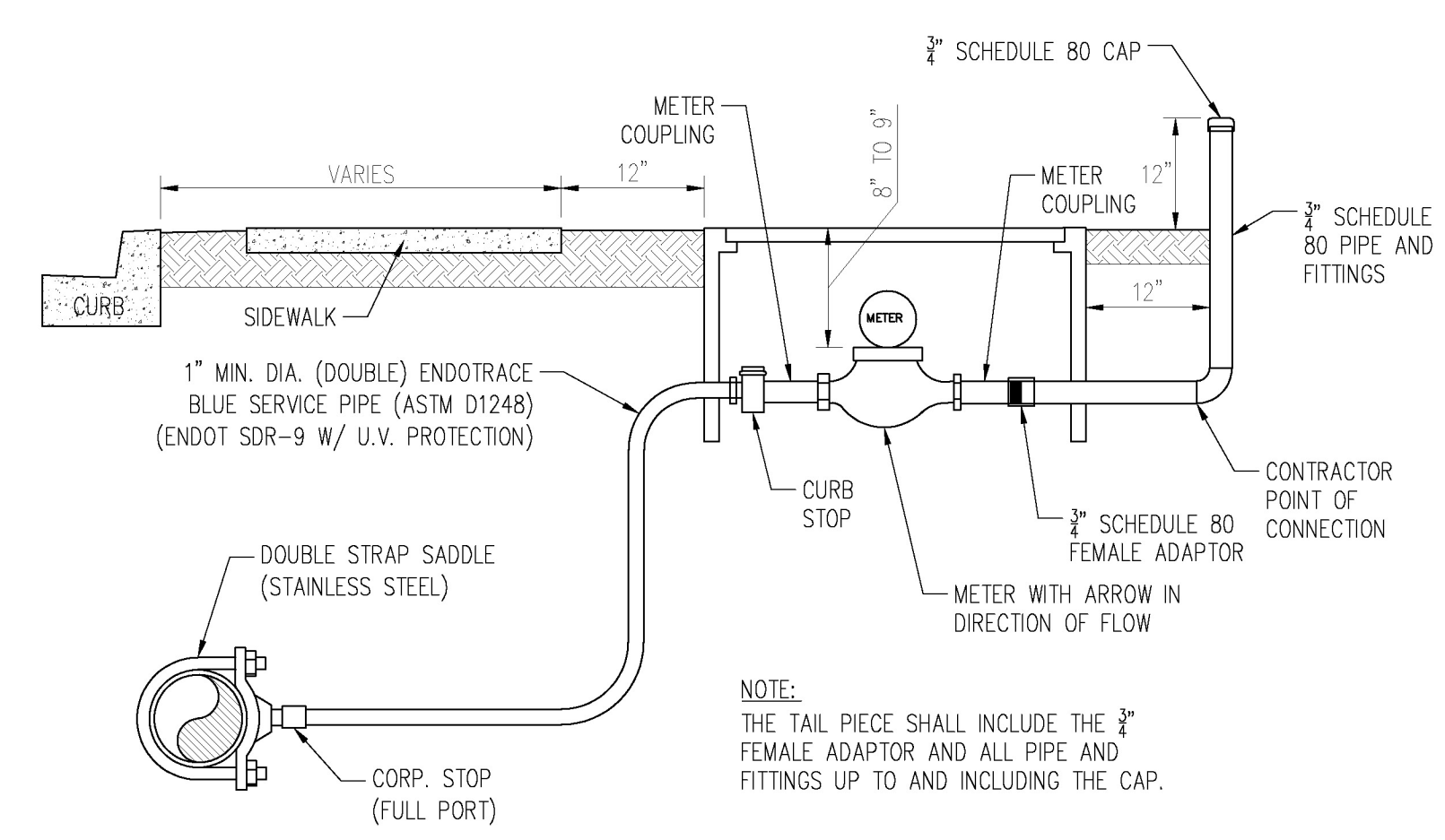


4 VALVE BOX COLLAR
N.T.S.



- NOTES:**
- ALL PIPE AND FITTINGS 2" AND SMALLER SHALL BE THREADED SCHEDULE 80 PVC. NO GALVANIZED PIPE ALLOWED.
 - ALL PIPE LARGER THAN 2 INCH SHALL BE FLANGED DUCTILE IRON PIPE.
 - RECLAIMED WATER JUMPER SHALL BE SIZE ON SIZE.

7 RECLAIMED WATER JUMPER CONNECTION
N.T.S.



6 WATER SERVICE DETAIL
N.T.S.

- NOTES:**
- ALL FITTINGS BETWEEN THE WATER MAIN AND THE METER COUPLING SHALL BE BRASS WITH COMPRESSION/PACK JOINT CONNECTIONS.
 - NO SERVICE LINE SHALL TERMINATE UNDER A DRIVEWAY.
 - EACH SERVICE SHALL TERMINATE IN A METER BOX ASSEMBLY, WHICH SHALL BE PLACED TO GRADE IN THE UTILITY EASEMENT AT THE PROPERTY LINE(S) OF THE LOT(S) TO BE SERVED.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION TO AND INCLUDING THE METER BOX ASSEMBLY. THE CITY SHALL FURNISH THE METER AND THE TAIL PIECE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING THE METER BOX ASSEMBLY TO FINISH GRADE AND MAKING ANY GRADE ADJUSTMENTS TO THE METER BOX IF REGRADING OCCURS.
 - ALL SERVICE LINES SHALL BE POLY ENDOTRACE PIPE AND SHALL BE BLUE IN COLOR W/WIRE.
 - THE POINT OF CONNECTION IS LOCATED ONE FOOT BEYOND THE METER BOX. THE PLUMBER/CUSTOMER SHALL BE RESPONSIBLE FOR MAINTENANCE BEYOND THE POINT OF CONNECTION.
 - IN NO CASE IS METER TO BE INSTALLED IN SIDEWALK OR OTHER PAVED AREAS.

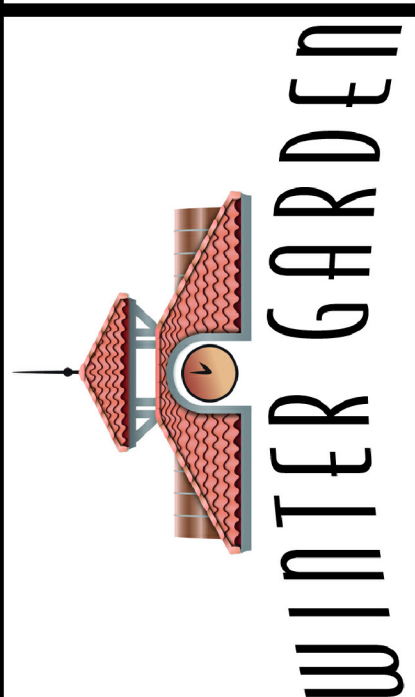
6 WATER SERVICE DETAIL
N.T.S.

WINTER GARDEN STANDARDS INCORPORATED WITH DESIGN ENGINEERS DOCUMENTS.

THE DETAILS, NOTES AND SPECIFICATIONS SHOWN ON THIS SHEET REPRESENT THE NOTED STANDARDS OF THE CITY OF WINTER GARDEN FOR CONSTRUCTION OF PUBLIC WORKS AND UTILITY INFRASTRUCTURE. BY INCLUDING THE STANDARDS, THE DESIGN ENGINEER HAS ACKNOWLEDGED THAT THEY ARE EFFECTIVE TO THE PROJECT AND THAT DETAILS, NOTES, OR SPECIFICATIONS ARE AS PROVIDED BY THE CITY AND HAVE NOT BEEN REVISED OR MODIFIED WITHOUT WRITTEN APPROVAL FROM THE CITY ENGINEER OR UTILITY DIRECTOR.

DATE	4/7/14
ITEM	Water Meter Service
NO.	2
ARY Detail	

CITY OF WINTER GARDEN, FLORIDA
STANDARDS AND SPECIFICATIONS
FOR UTILITIES CONSTRUCTION



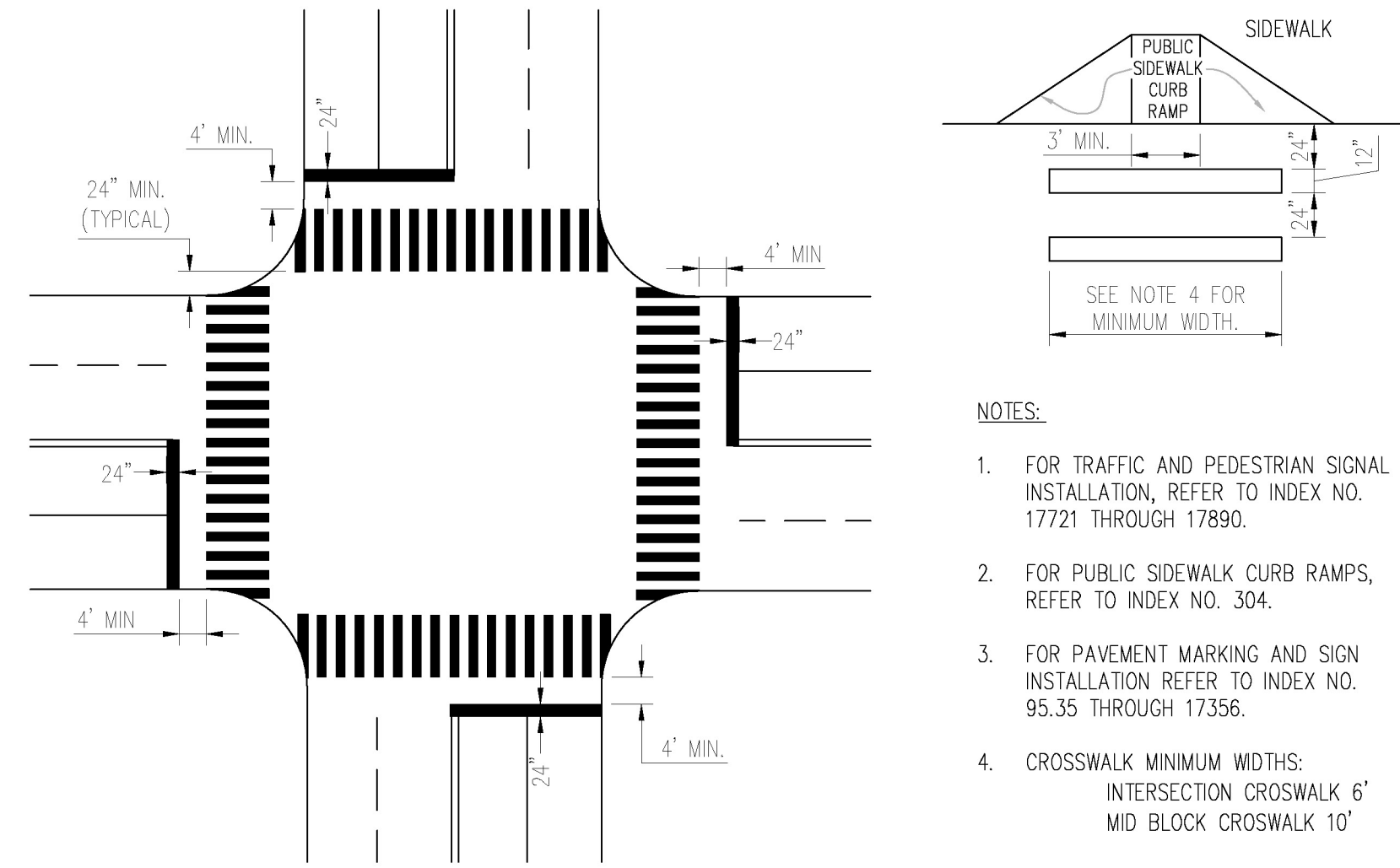
STANDARD DETAILS
FOR
POTABLE WATER SYSTEMS

DATE
JUNE 2018
SHEET

8
8 OF 11

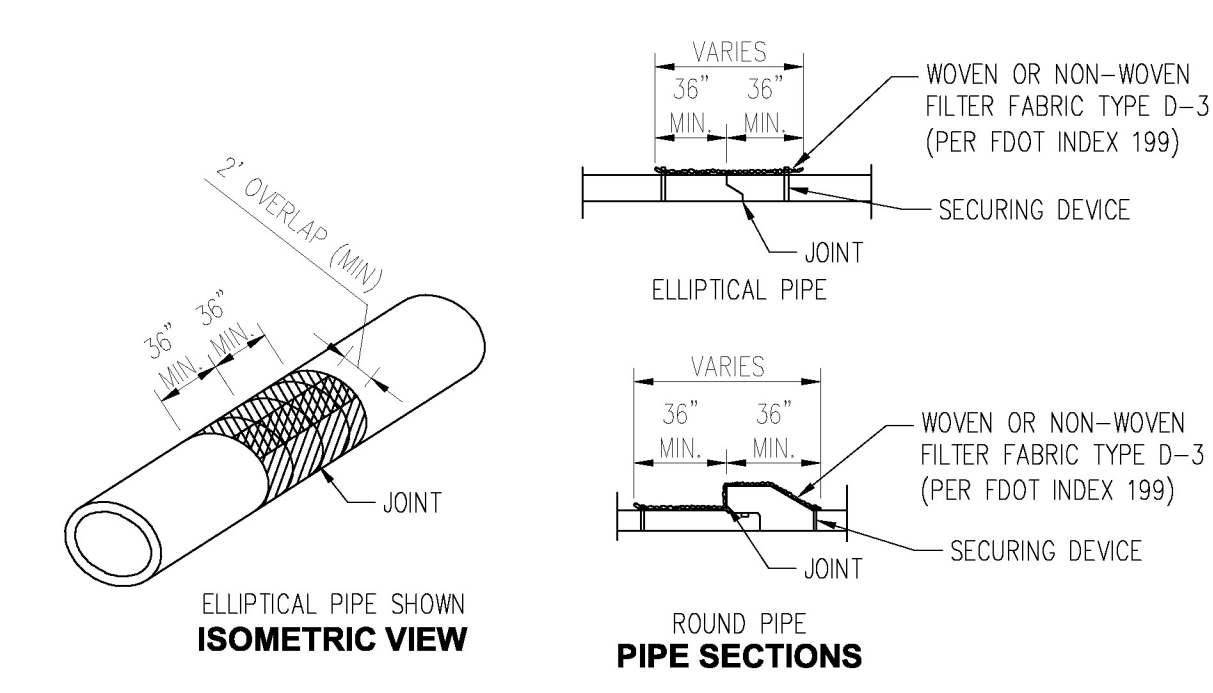
GENERAL NOTES:

1. ALL NEW STORM AND SANITARY SEWER LINES IN THE CITY OF WINTER GARDEN SHALL BE SUBJECTED TO CLOSED CIRCUIT TV INSPECTION PRIOR TO BEING ACCEPTED BY THE CITY, WHETHER PRIVATE OR CITY MAINTAINED. ALL STORM SEWER PIPE SHALL BE REINSPECTED AT THE YEAR END, COST TO BE PAID BY THE OWNER.
2. PIPE MATERIAL SHALL BE AS SHOWN ON THE CONSTRUCTION PLANS UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
3. CONTRACTOR AND OWNER ARE RESPONSIBLE FOR ENSURING THAT ALL CITY, COUNTY, STATE (FDEP, FDOT, SJRWMD, ETC.), AND FEDERAL PERMITS HAVE BEEN ISSUED FOR THE PROJECT.
4. ALL STORM SYSTEM MUST BE WATER-TIGHT WITH ALL JOINTS WRAPPED.
5. STORM SYSTEM WILL BE CLEANED PRIOR TO BEING TV'D.
6. THE OWNER SHALL KEEP A COPY OF THE WATER MANAGEMENT DISTRICT PERMIT, NPDES, NOI AND SWPP PLAN IN A CONSPICUOUS LOCATION ON THE JOB SITE AT ALL TIMES.
7. ALL STORM SEWER MANHOLES FRAME & COVER SHALL BE ASTM 225.
8. CLEAN SAND SHALL CONSIST OF MATERIAL HAVING LESS THAN 5% PASSING THE #200 SIEVE.
9. ONLY CONCRETE RISER RINGS WILL BE ALLOWED TO BE PLACED FOR STORM MANHOLES. ALL RISER RINGS SHALL BE SEALED TO THE STRUCTURE USING WRAPID SEAL. NO MORE THAN 15" WILL BE ALLOWED.
10. STORM SEWER PIPES SHALL MEET ASTM C76 & ASTM C507.
11. ALL STORM SEWER STRUCTURE SECTIONS SHALL BE SEALED WITH WRAPID SEAL.



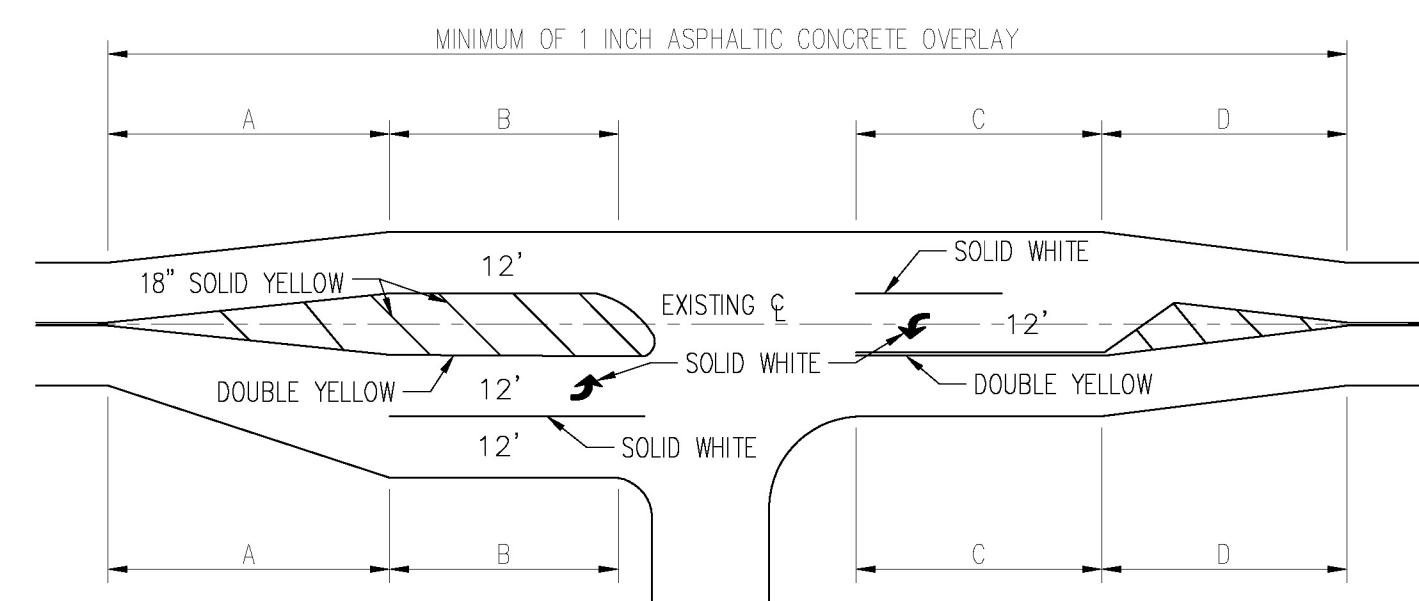
1 TYPICAL CROSSWALK
N.T.S.

- NOTES:**
1. FOR TRAFFIC AND PEDESTRIAN SIGNAL INSTALLATION, REFER TO INDEX NO. 17721 THROUGH 17890.
 2. FOR PUBLIC SIDEWALK CURB RAMP, REFER TO INDEX NO. 304.
 3. FOR PAVEMENT MARKING AND SIGN INSTALLATION REFER TO INDEX NO. 95.35 THROUGH 17356.
 4. CROSSWALK MINIMUM WIDTHS:
INTERSECTION CROSSWALK 6'
MID BLOCK CROSSWALK 10'



2 FILTER FABRIC JACKET
N.T.S.

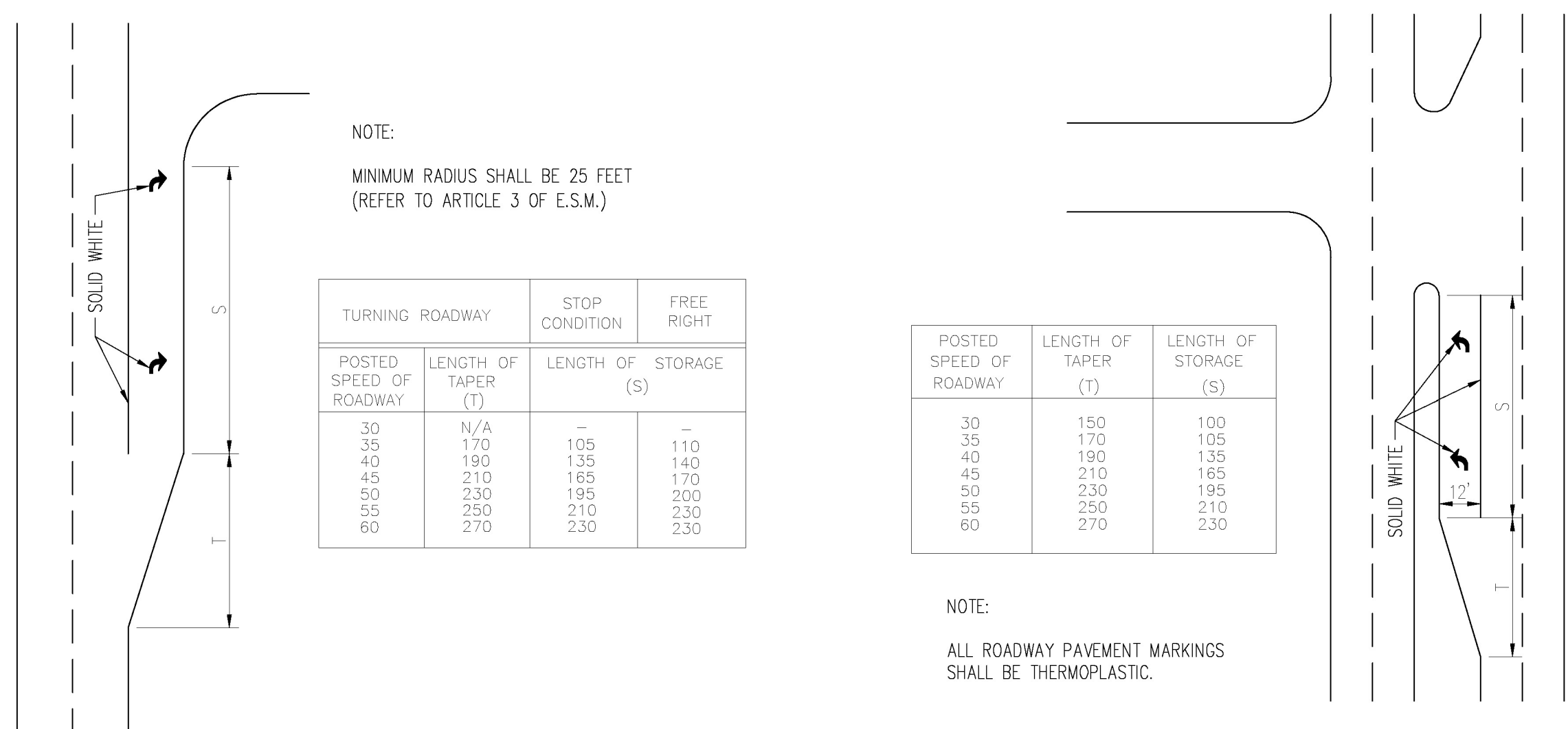
Cost of filter fabric jacket to be included in cost of pipe culverts.
FOR ALL PIPE TYPES - CONCRETE PIPE SHOWN



- NOTES:**
- 1) STRIPING ACCORDING TO F.D.O.T. STANDARD INDEX #17346B.
 - 2) LANE WIDTHS TO MATCH EXISTING LANE WIDTHS.
 - 3) MINIMUM RADIUS SHALL BE 25 FEET (REFER TO ARTICLE 3 OF E.S.M.)
 - 4) ALL ROADWAY PAVEMENT MARKING SHALL BE THERMAPLASTIC.

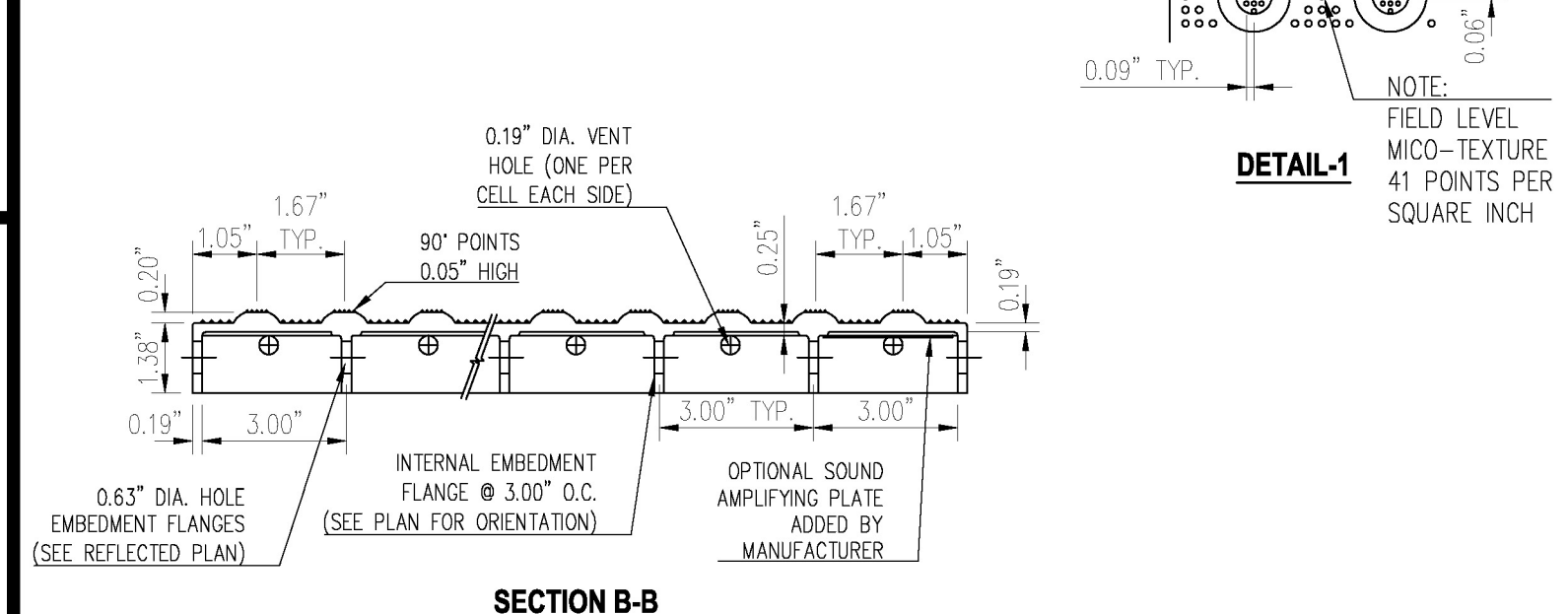
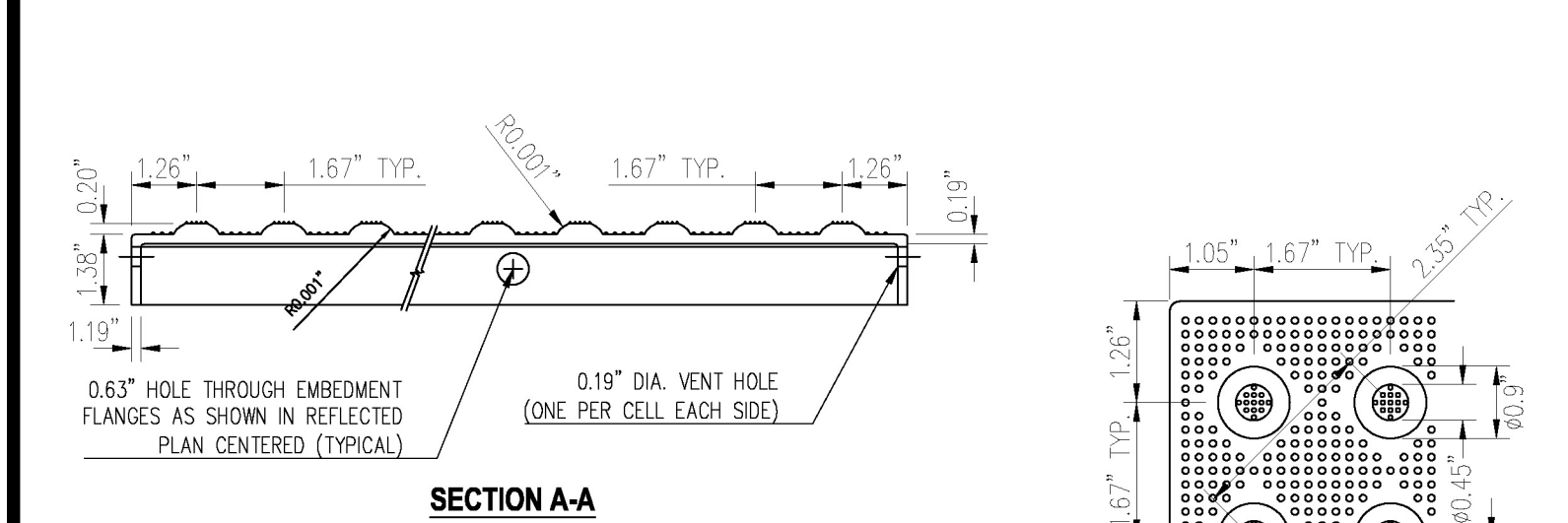
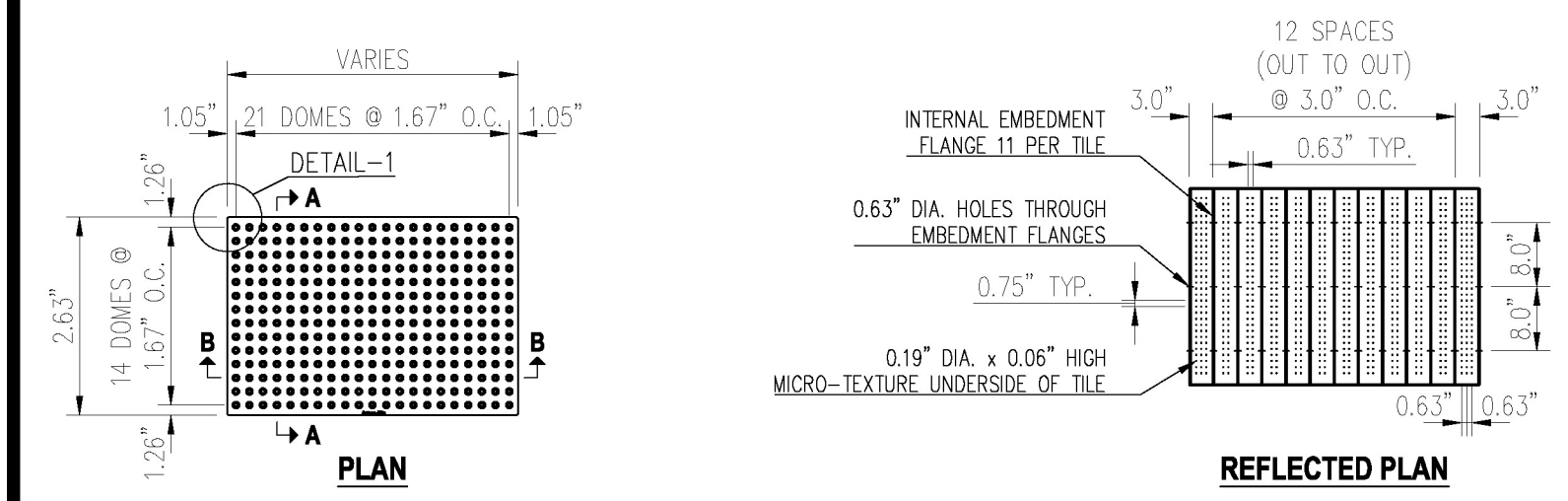
PAVEMENT MARKING LENGTHS				
SPEED	A	B	C	D
40 MPH	190'	110'	135'	190'
45 MPH	210'	140'	165'	210'
50 MPH	230'	170'	195'	230'
55 MPH	250'	200'	210'	250'

3 TYPICAL INTERSECTION
N.T.S.



4 RIGHT TURN DECELERATION LANE
N.T.S.

5 DIVIDED HIGHWAY LEFT TURN STORAGE LANE
N.T.S.



8 DETECTABLE WARNING DETAIL
N.T.S.

- NOTE:**
1. CURB RAMP DETECTABLE WARNING TILE SHALL BE ARMOR TILE OR EQUAL.
 2. ALL SIDEWALK CURB RAMP SHALL HAVE DETECTABLE WARNING SURFACES THAT EXTEND THE FULL WIDTH OF THE RAMP AND IN THE DIRECTION OF TRAVEL 24 INCHES (610 MM) FROM THE BACK OF CURB.

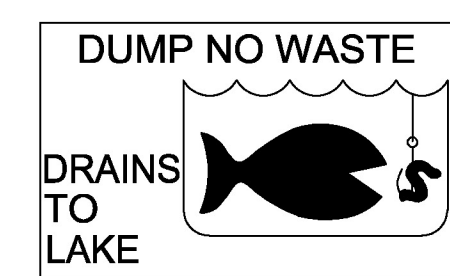
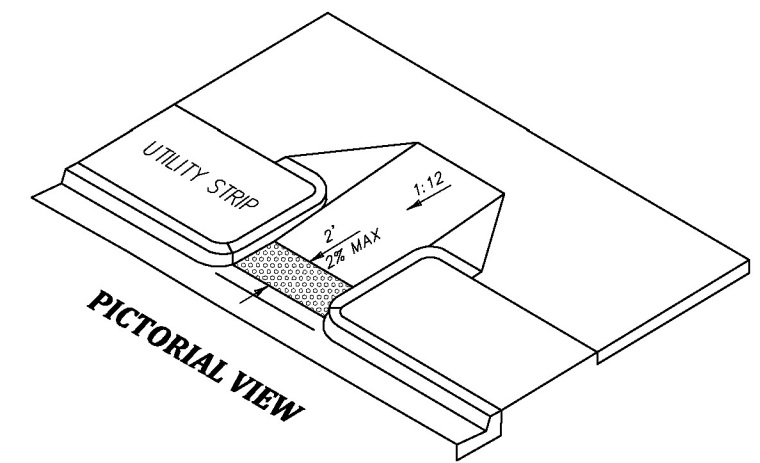
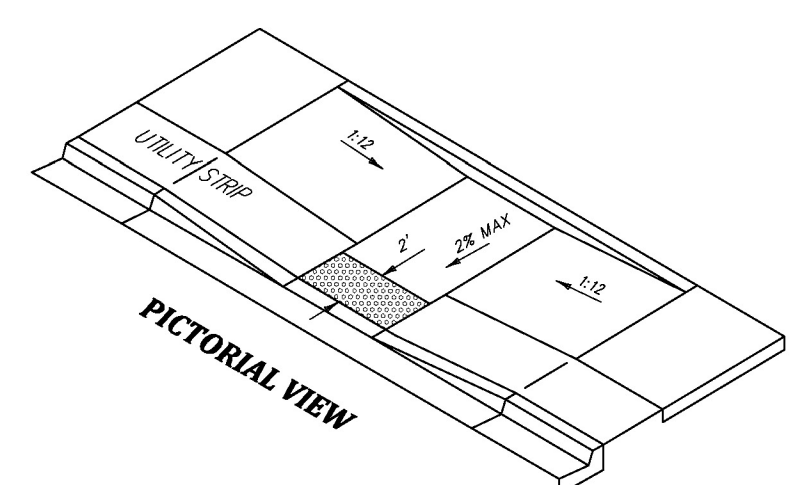
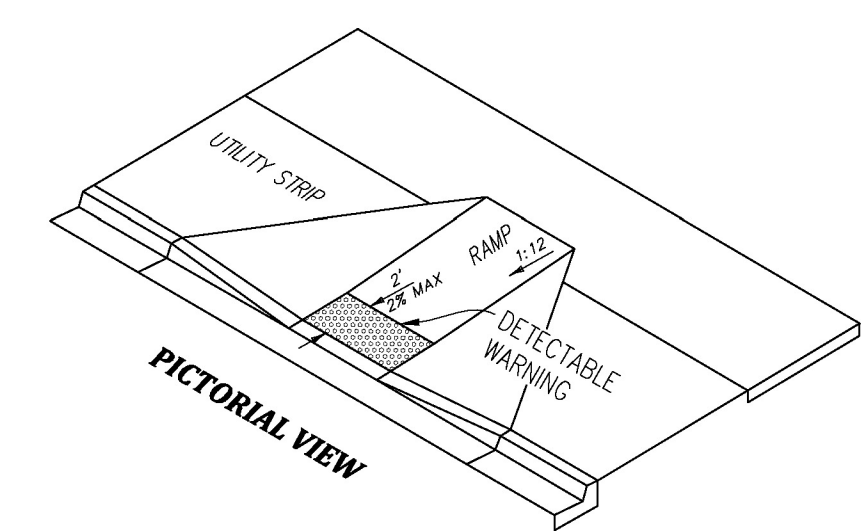


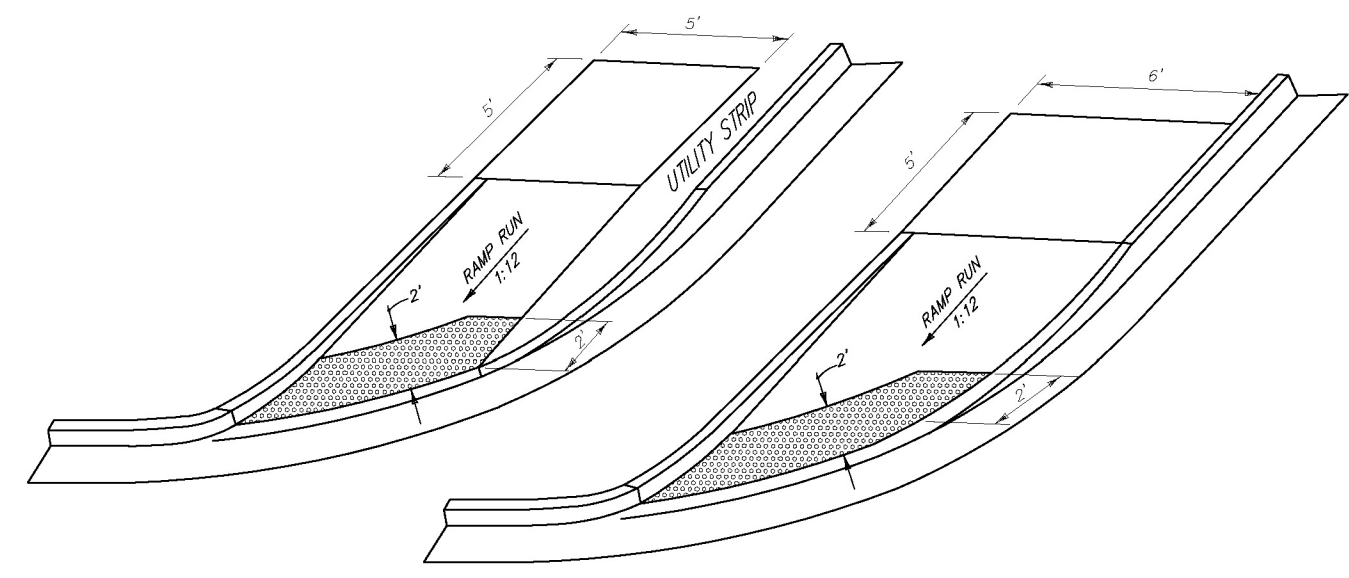
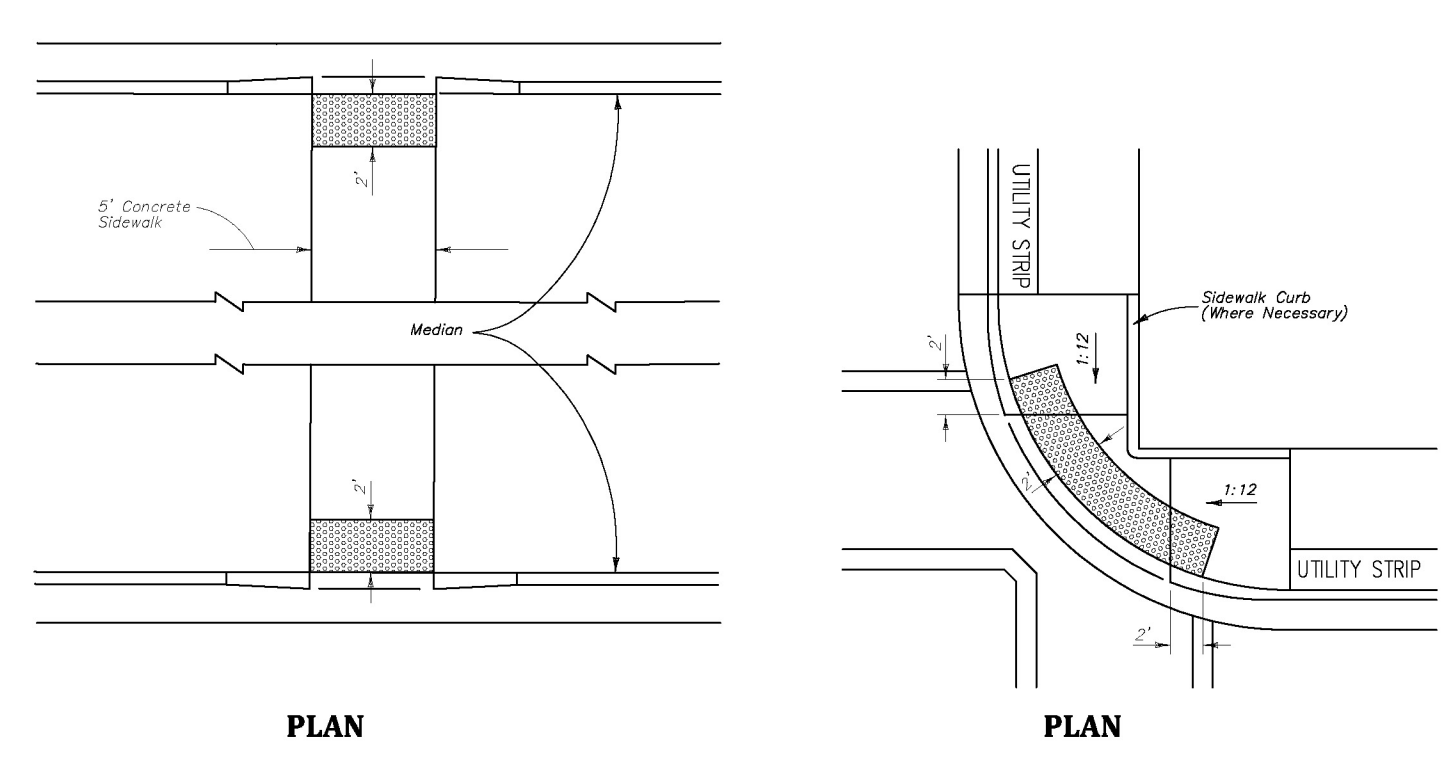
PLATE SHALL BE ADDED TO STORMWATER INLETS AS REQUIRED BY THE CITY.

WINTER GARDEN STANDARDS INCORPORATED WITH DESIGN ENGINEERS' DOCUMENTS.

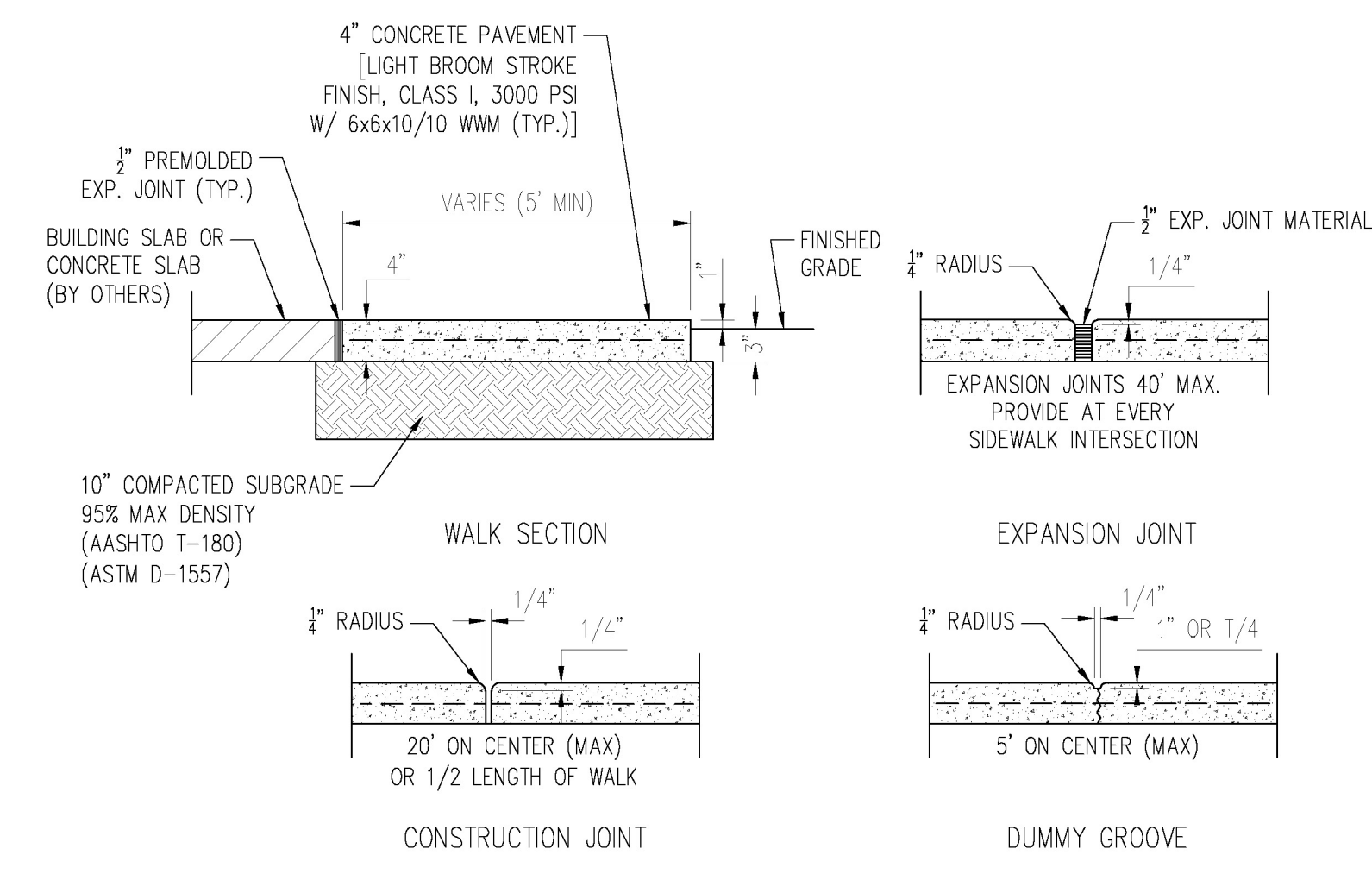
THE DETAILS, NOTES AND SPECIFICATIONS SHOWN ON THIS SHEET REPRESENT THE NOTED STANDARDS OF THE CITY OF WINTER GARDEN FOR CONSTRUCTION OF PUBLIC WORKS AND UTILITY INFRASTRUCTURE. BY INCLUDING THE STANDARDS, THE DESIGN ENGINEER HAS ACKNOWLEDGED THAT THEY ARE EFFECTIVE TO THE PROJECT AND THAT DETAILS, NOTES, OR SPECIFICATIONS ARE AS PROVIDED BY THE CITY AND HAVE NOT BEEN REVISED OR MODIFIED WITHOUT WRITTEN APPROVAL FROM THE CITY ENGINEER OR UTILITY DIRECTOR.



6 CURB RAMPS & DETECTABLE WARNING PLACEMENT
N.T.S.



7 SIDEWALK DETAILS
N.T.S.



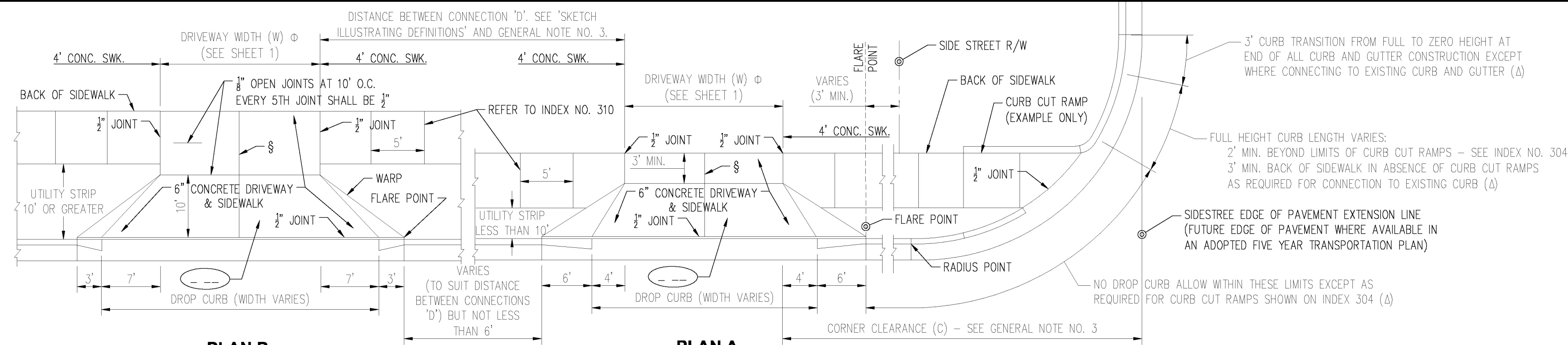
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CITY OF WINTER GARDEN, FLORIDA
STANDARDS AND SPECIFICATIONS
FOR ROADWAY & DRAINAGE CONSTRUCTION
WINTER GARDEN

STANDARD DETAILS
FOR
PUBLIC SERVICES

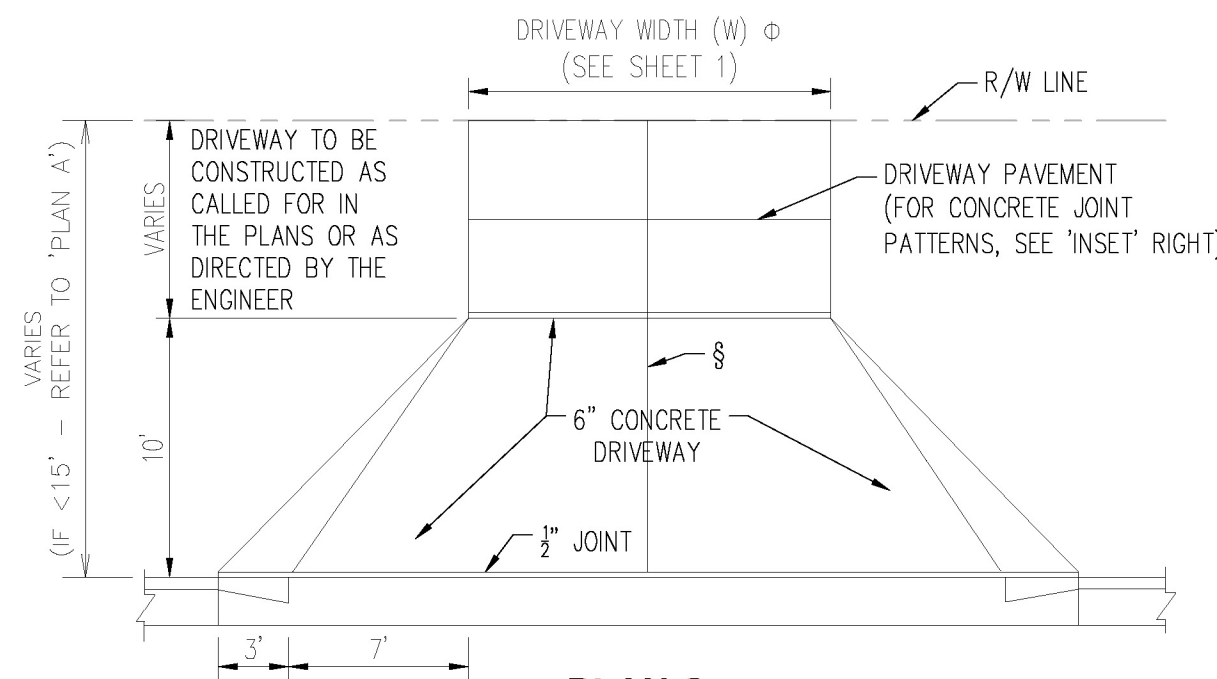
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JUNE 2018

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9 OF 11

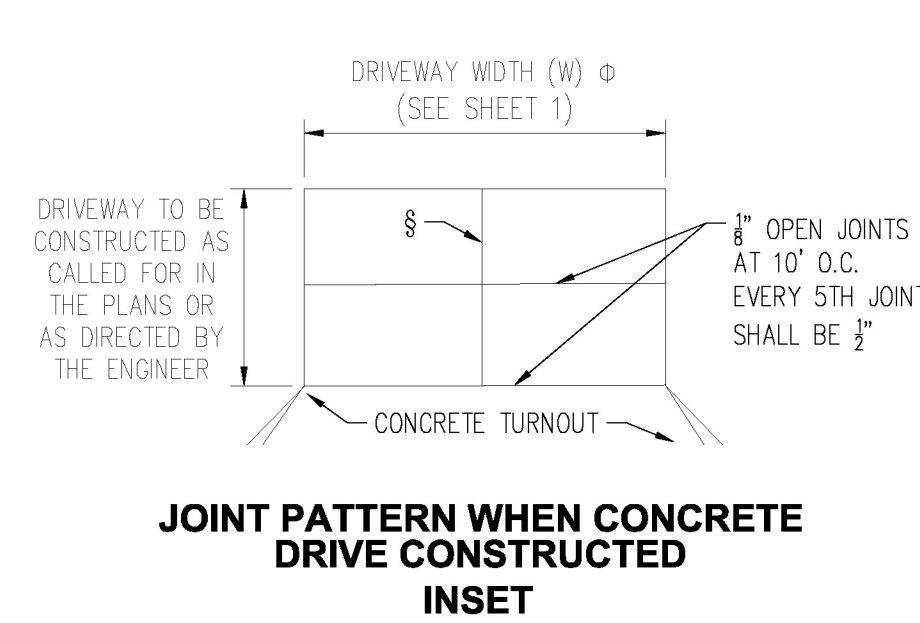


PLAN B
TURNOUT WITH SIDEWALK AND UTILITY STRIP (10' OR GREATER)

PLAN A
TURNOUT WITH SIDEWALK AND UTILITY STRIP (LESS THAN 10')



PLAN C
TURNOUT WITHOUT SIDEWALK



JOINT PATTERN WHEN CONCRETE DRIVE CONSTRUCTED INSET

- FOOTNOTES:**
- ALL $\frac{1}{2}$ " JOINTS SHALL BE CONSTRUCTED WITH PREFORMED JOINT FILLER.
 - § OPEN JOINTS PLACED AT EQUAL (20' MAX.) INTERVALS FOR DRIVEWAYS OVER 20' WIDE. JOINTS IN CURB AND GUTTER TO MATCH JOINTS IN DRIVEWAYS.
 - Δ WHEN CONNECTING TO SIDESTREET CURB AND GUTTER, THE NO DROP CURB LIMITS SHOULD EXTEND BACK TO THE SIDESTREET RADIUS POINT. WITH OR WITHOUT CURB AND GUTTER, NO DRIVEWAY SHOULD ENCR OACH ON THE CORNER RADIUS.
 - ⊕ DRIVEWAYS (6" CONCRETE) SHALL BE OF A UNIFORM WIDTH (W) TO THE RIGHT OF WAY LINE.
 - ⊖ ALPHA-NUMERIC IDENTIFICATION OF A FLARED DRIVEWAY TYPE SPECIFICALLY CALLED FOR IN THE PLANS, SEE SHEETS 3 AND 4.

SPECIAL NOTES FOR URBAN FLARED TURNOUTS

1. DRIVEWAY 6" CONCRETE PAVEMENT AND DROP CURB SHALL MEET THE MATERIAL AND CONSTRUCTION REQUIREMENTS OF SECTIONS 522 AND 520 RESPECTIVELY OF THE FOOT STANDARD SPECIFICATIONS. THE DRIVEWAY FOUNDATION SHALL MEET THE REQUIREMENT OF SUBARTICLE 522-4.
2. FOR DETAILS OF DROP CURB AND CURB CUT RAMPS REFER TO INDEXES NOS. 300 AND 304 RESPECTIVELY.
3. WHERE TURNOUTS ARE CONSTRUCTED WITHIN EXISTING CURB AND GUTTER, THE EXISTING CURB AND GUTTER SHALL BE REMOVED EITHER TO THE NEAREST JOINT BEYOND THE FLARE POINT OR TO THE EXTENT THAT NO REMAINING SECTION IS LESS THAN 5 FEET LONG; AND, DROP CURB CONSTRUCTED IN ACCORDANCE WITH NOTES NOS. 1 AND 2.
4. COST FOR PREFORMED JOINT FILLER SHALL BE INCLUDED IN THE COST FOR THE CONCRETE PAVEMENT (CONCRETE SIDEWALK, 6" THICK).
5. FOR TURNOUTS WITH RADIAL RETURNS SEE THE REQUIREMENTS UNDER THE "SUMMARY OF GEOMETRIC REQUIREMENTS FOR TURNOUTS", THE "GENERAL NOTES", THE DETAILS OF "RURAL TURNOUT CONSTRUCTION" AND THE DETAIL OF "LIMITS OF CLEARING & GRUBBING, STABILIZATION AND BASE AT INTERSECTIONS".
6. DEPARTMENT MAINTENANCE OF PAVEMENT SHALL EXTEND OUT TO THE RIGHT OF WAY OR 2 FEET BACK OF SIDEWALK, WHICHEVER DISTANCE IS LESS.
7. THE MAINTENANCE AND OPERATION OF HIGHWAY LIGHTING, TRAFFIC SIGNALS, ASSOCIATED EQUIPMENT, AND OTHER NECESSARY DEVICES SHALL BE THE RESPONSIBILITY OF A PUBLIC AGENCY.
8. ALL PAVEMENT MARKINGS ON THE STATE HIGHWAYS, INCLUDING ACCELERATION AND DECELERATION LANE MARKINGS, AND SIGNING INSTALLED FOR THE OPERATION OF THE STATE HIGHWAY SHALL BE MAINTAINED BY THE DEPARTMENT.
9. ALL SIGNING AND MARKING INSTALLED FOR THE OPERATION OF THE CONNECTION (SUCH AS STOP BARS AND STOP SIGNS FOR THE CONNECTION) SHALL BE THE RESPONSIBILITY OF THE PERMITTEE.
10. TURNOUTS WILL BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR SIDEWALK CONCRETE (6" THICK), SY.

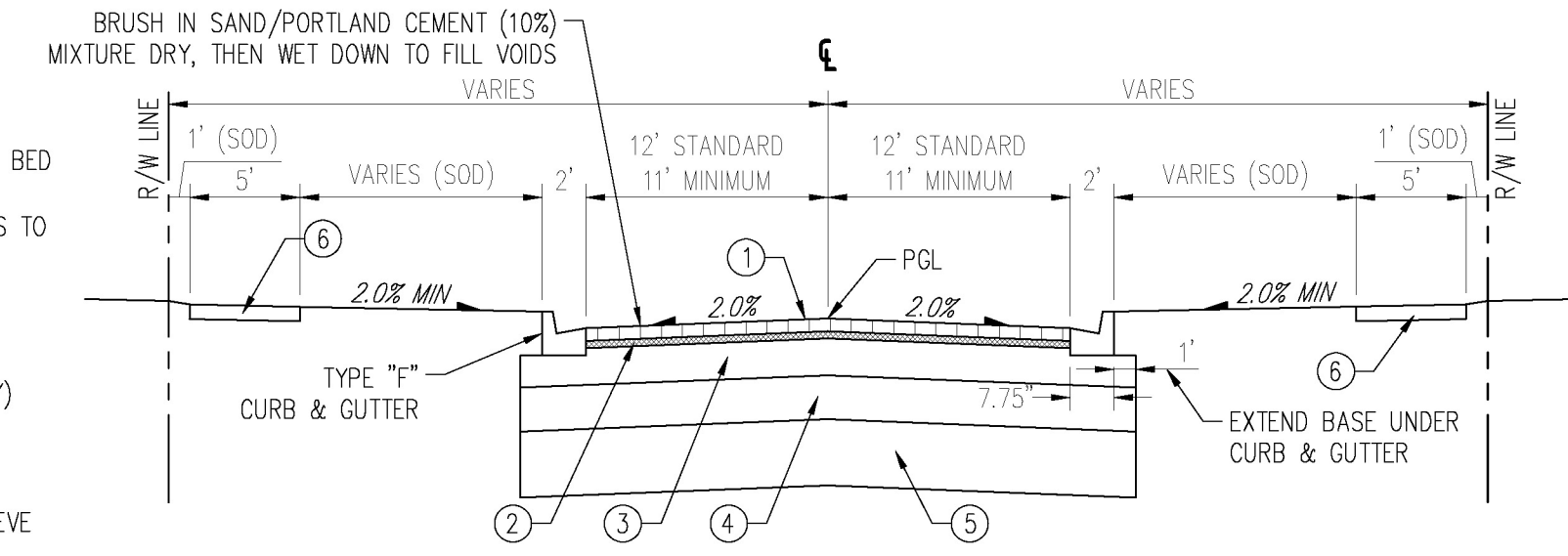
DESIGN NOTES FOR URBAN FLARED TURNOUTS

1. DRIVEWAYS INDICATED AS "ADVERSE APPLICATIONS" ARE THOSE WITH SLOPES THAT CAN CAUSE OVERHANG DRAG FOR REPRESENTATIVE STANDARD PASSENGER VEHICLES UNDER FULLY LOADED CONDITIONS; OR, THOSE WITH SLOPES THAT CAN CAUSE DRIVERS WHO ARE LEAVING THE ROADWAY TO SLOW OR PAUSE TO THE EXTENT THAT TRAFFIC DEMAND VOLUMES WILL BE IMPEDED.
2. THE STANDARD FLARED DRIVEWAYS ON THIS INDEX MAY NOT ACCOMMODATE VEHICLES WITH LOW BEDS, LOW UNDERCARRIAGE OR LOW APPENDAGE FEATURES. WHERE SUCH VEHICLES ARE DESIGN VEHICLES DRIVEWAYS ARE TO HAVE SITE SPECIFIC FLARE DESIGNS OR CATEGORY ~~~ DESIGNS.
3. WHEN SPECIFIC FLARE TYPE DRIVEWAYS ARE TO BE CONSTRUCTED, THE TYPE SHALL BE DESIGNATED IN THE PLANS USING THE ASSIGNED ALPHA-NUMERIC DESIGNATION.
- DRIVEWAYS INDICATED AS "MARGINAL APPLICATIONS" ARE THOSE WITH SLOPES THAT CAN CAUSE OVERHANG DRAG FOR REPRESENTATIVE STANDARD PASSENGER VEHICLES UNDER FULLY LOADED CONDITIONS WHEN THE DRIVEWAY IS LOCATED ON THE LOW SIDE OF FULLY SUPERELEVATED ROADWAYS.
- DRIVEWAYS INDICATED AS "GENERAL APPLICATIONS" ARE THOSE WITH SLOPES THAT CAN READILY ACCOMMODATE REPRESENTATIVE STANDARD PASSENGER VEHICLES AND THOSE AND THOSE THAT CAN ACCOMMODATE REPRESENTATIVE STANDARD TRUCKS, VANS, BUSES AND RECREATIONAL VEHICLES OPERATING UNDER NORMAL CROWN AND SUPERELEVATION CONDITIONS.

Note: See sheet 1 for 'GENERAL NOTES'

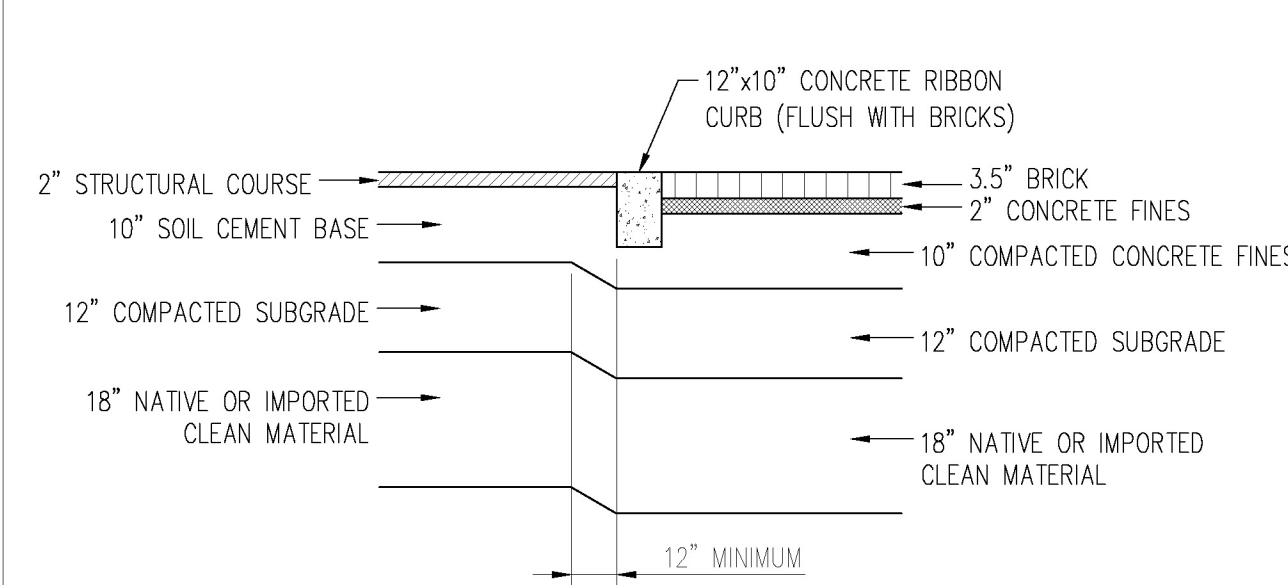
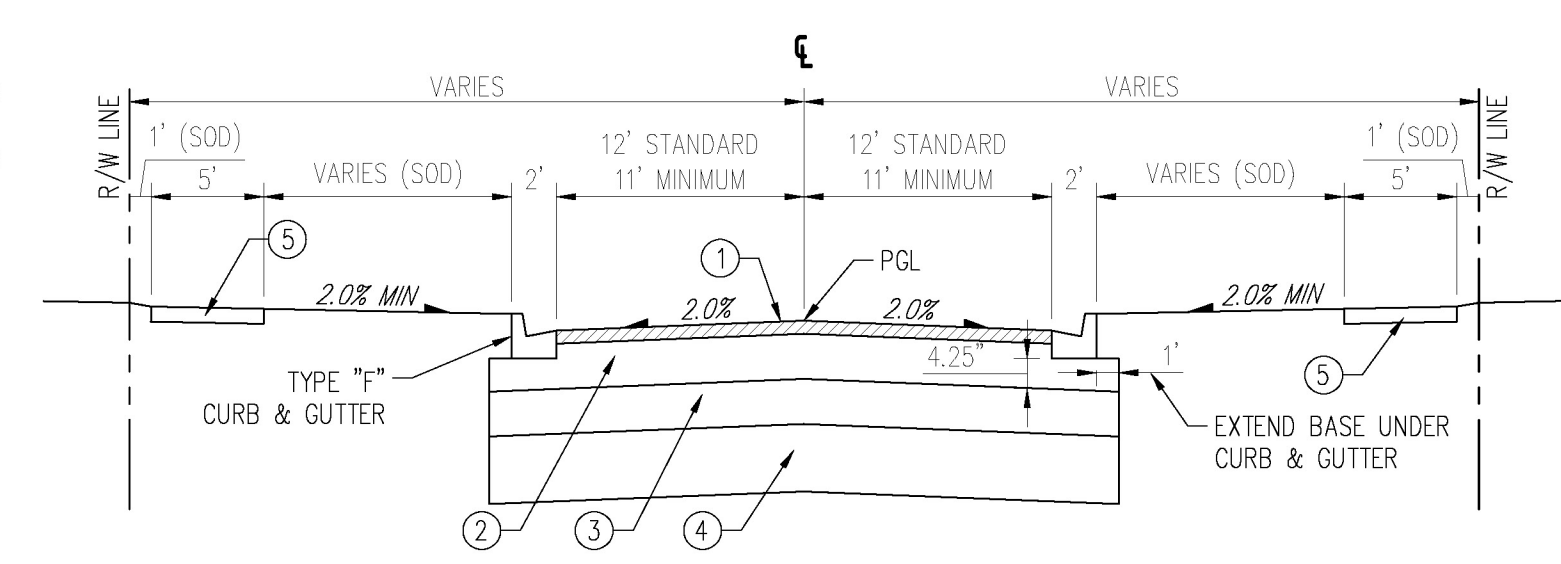
PAVEMENT DESIGN

1. 3.5" BRICKS
2. 1" - 2" LOOSE CONCRETE FINES LEVELING BED
3. 10" BASE - COMPACTED CONCRETE FINES TO 98% MAX. DENSITY (AASHTO T-134). ASPHALTIC PRIME COAT APPLIED AT 0.15 GAL./SF
4. 12" COMPACTED SUBGRADE (98% DENSITY) AASHTO T-180 AND LBR 40
5. 18" OF NATIVE OR IMPORTED MATERIAL HAVING LESS THAN 5% PASSING #200 SIEVE COMPACTED TO 98% PER AASHTO T-180
6. 4" THICK CONCRETE SIDEWALK

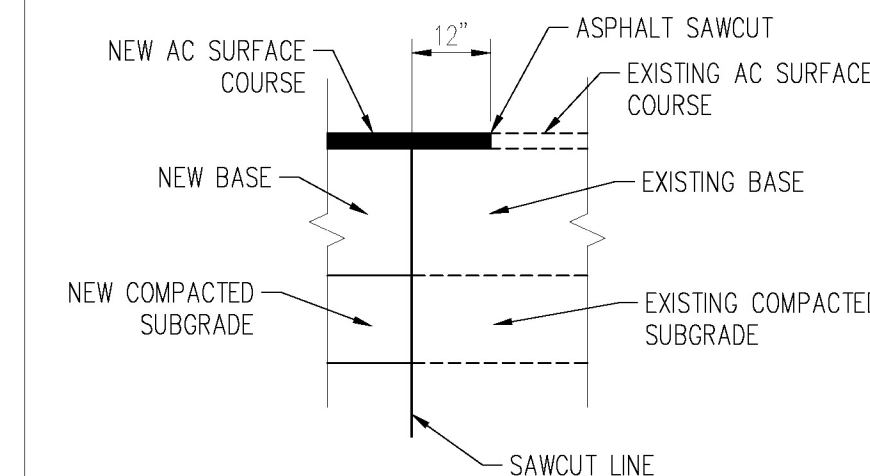


PAVEMENT DESIGN

1. 2" TYPE S-1 STRUCTURAL COURSE (2 LIFTS)
2. 10" BASE TYPE SOIL CEMENT COMPACTED TO 98% MAX. DENSITY (AASHTO T-134). ASPHALTIC PRIME COAT APPLIED AT 0.15 GAL./SF 300 PSI 7-DAY COMPRESSIVE STRENGTH
3. 12" COMPACTED SUBGRADE (98% DENSITY) AASHTO T-180 AND LBR 40
4. 18" OF NATIVE OR IMPORTED MATERIAL HAVING LESS THAN 5% PASSING #200 SIEVE COMPACTED TO 98% PER AASHTO T-180
5. 4" THICK CONCRETE SIDEWALK

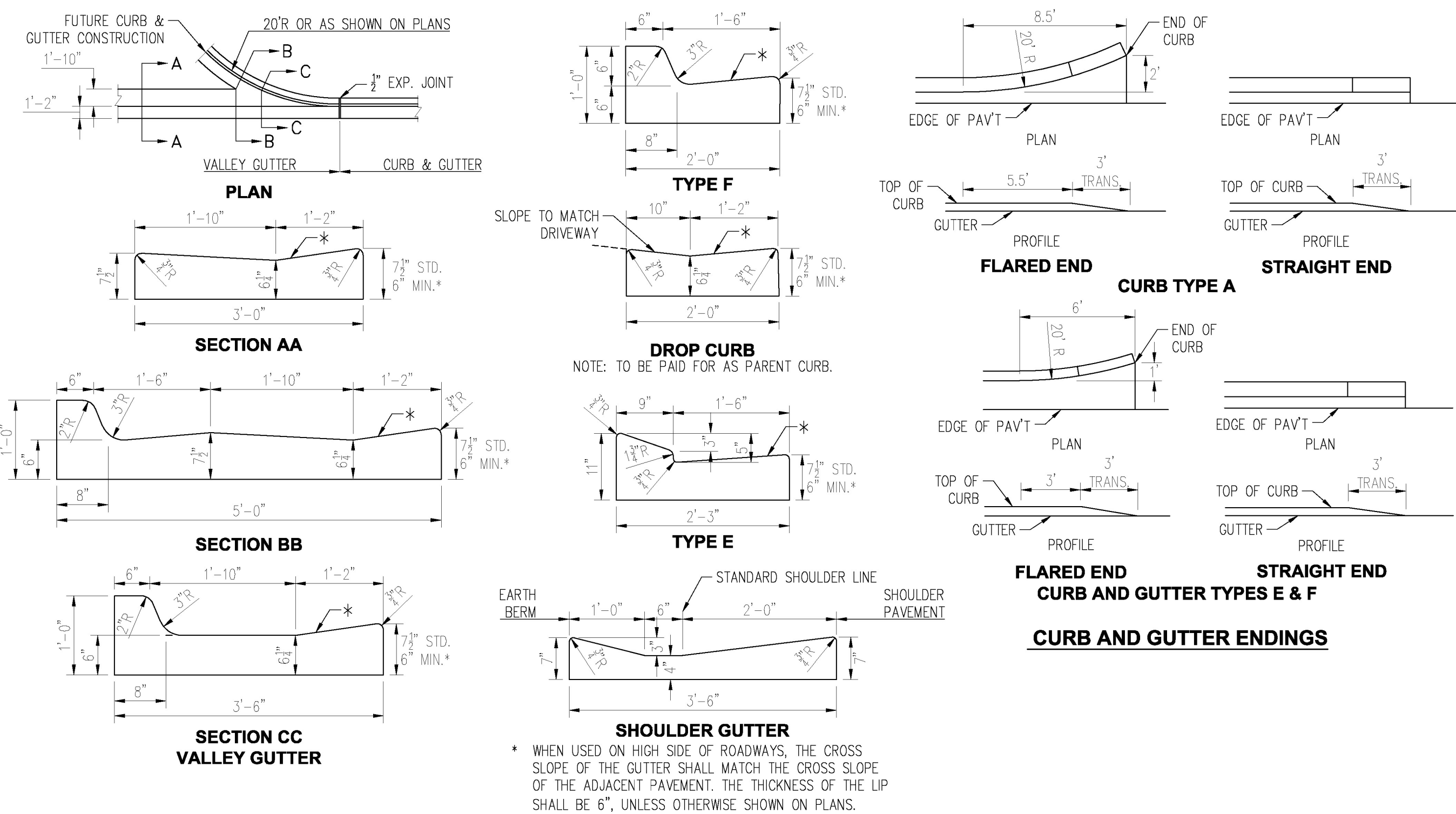


1 RIBBON CURB WITH BRICK PAVERS
N.T.S.



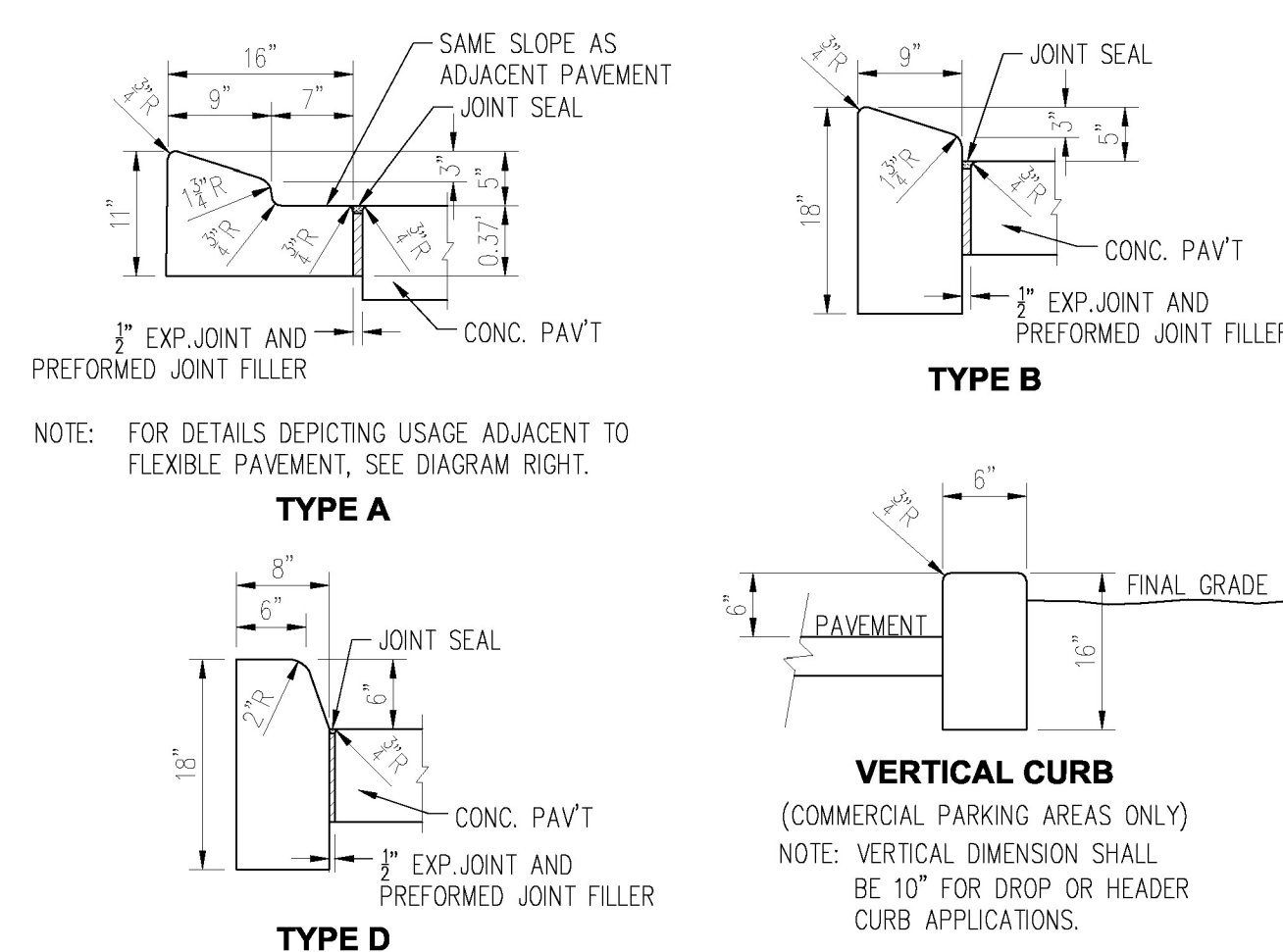
1 SAWCUT TYPICAL DETAIL
N.T.S.

NOTE: CONTRACTOR SHALL APPLY A BITUMINOUS TACK COAT WHERE NEW ASPHALTIC CONCRETE PAVEMENT ABUTS EXISTING PORTLAND CEMENT CONCRETE PAVEMENT.

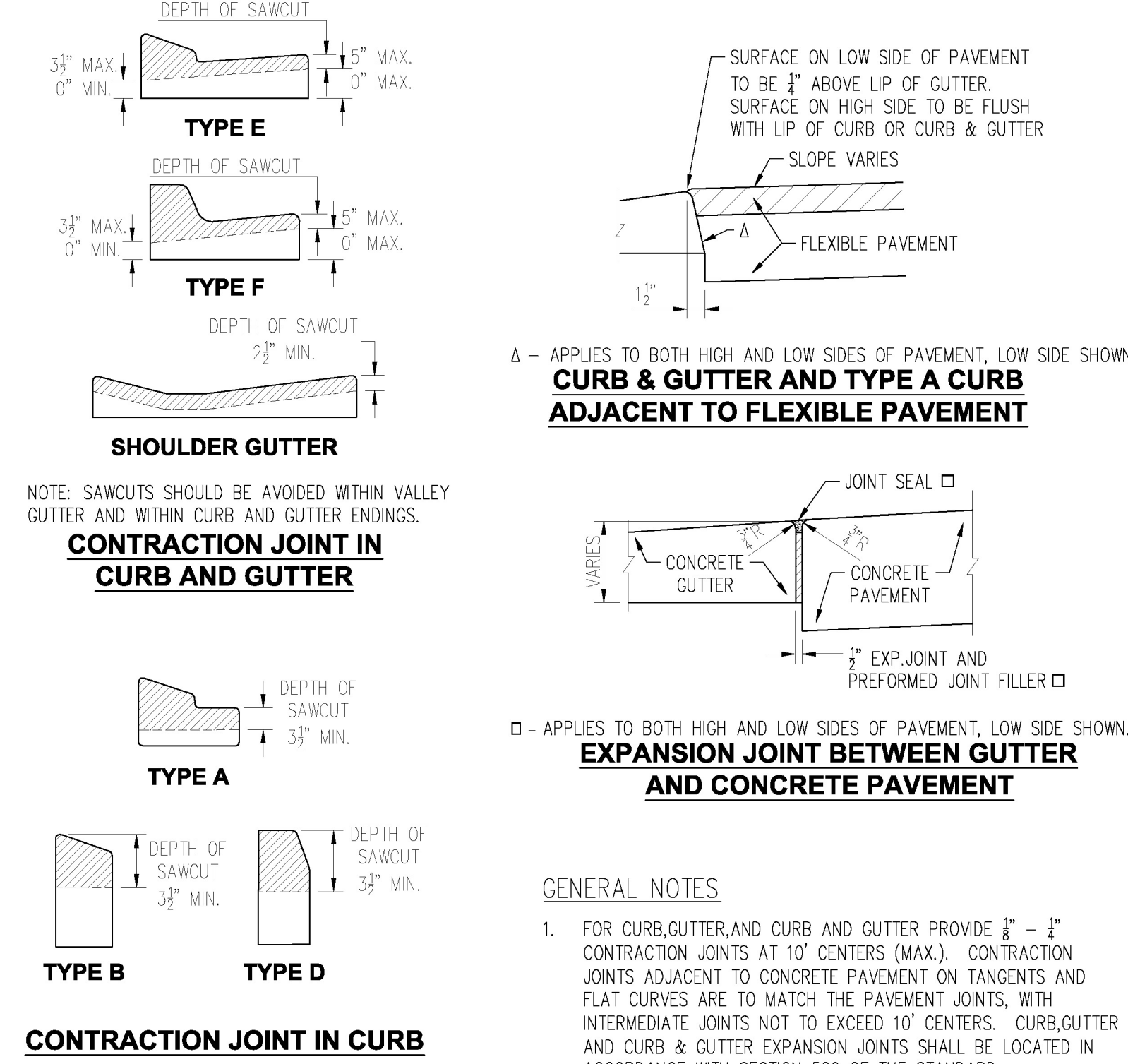


CONCRETE CURB AND GUTTER

NOTE: FOR USE ADJACENT TO CONCRETE OR FLEXIBLE PAVEMENT, CONCRETE SHOWN. FOR DETAILS DEPICTING USAGE ADJACENT TO FLEXIBLE PAVEMENT, SEE DIAGRAM RIGHT. EXPANSION JOINT, PREFORMED JOINT FILLER AND JOINT SEAL ARE REQUIRED BETWEEN CURB & GUTTER AND CONCRETE PAVEMENT ONLY, SEE DIAGRAM RIGHT.



ASPHALTIC CONCRETE CURB



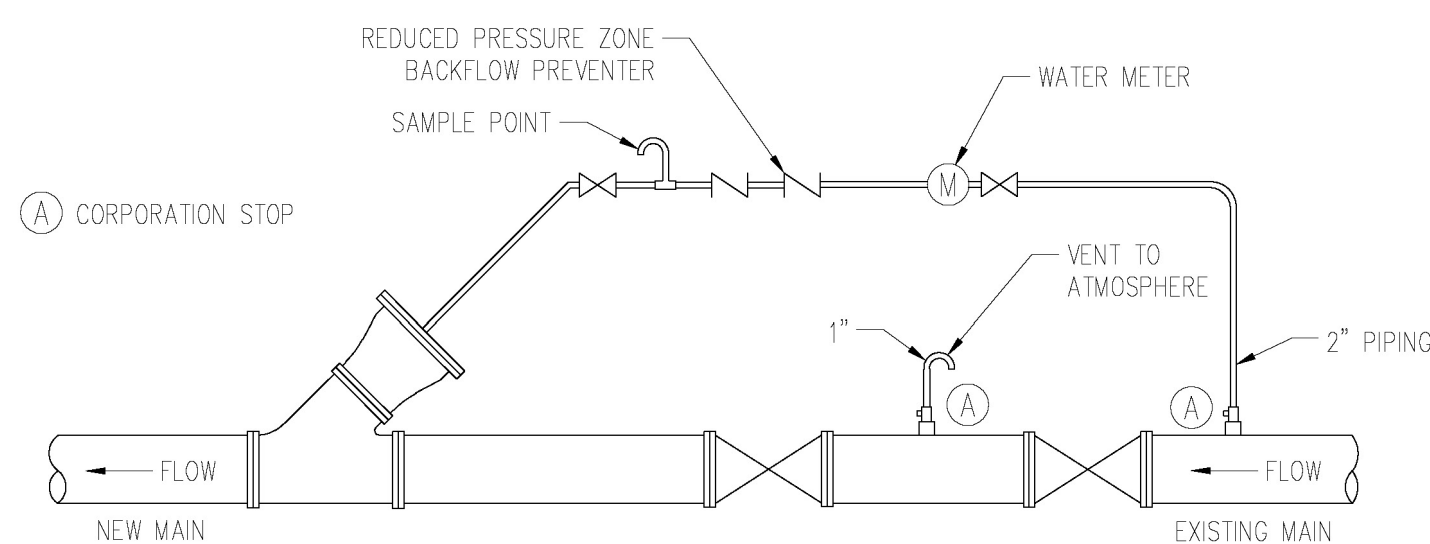
GENERAL NOTES

1. FOR CURB, GUTTER, AND CURB AND GUTTER PROVIDE $\frac{1}{2}$ " - $\frac{1}{4}$ " CONTRACTION JOINTS AT 10' CENTERS (MAX.). CONTRACTION JOINTS ADJACENT TO CONCRETE PAVEMENT ON TANGENTS AND FLAT CURVES ARE TO MATCH THE PAVEMENT JOINTS, WITH INTERMEDIATE JOINTS NOT TO EXCEED 10' CENTERS. CURB, GUTTER AND CURB & GUTTER EXPANSION JOINTS SHALL BE LOCATED IN ACCORDANCE WITH SECTION 520 OF THE STANDARD SPECIFICATIONS.
2. ENDS OF CURBS TYPES B AND D SHALL TRANSITION FROM FULL TO ZERO HEIGHTS IN 3 FEET.

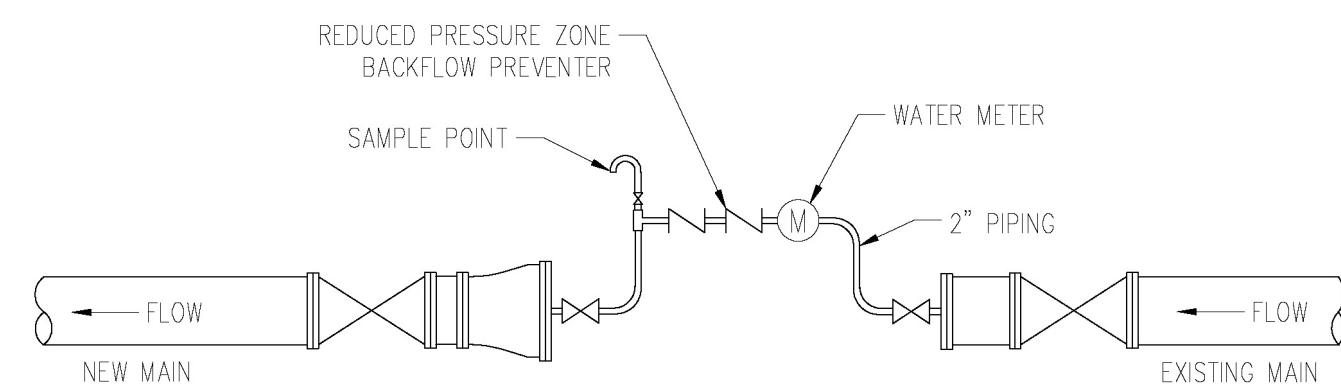
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CITY OF WINTER GARDEN, FLORIDA
STANDARDS AND SPECIFICATIONS
FOR ROADWAY & DRAINAGE CONSTRUCTION
WINTER GARDEN

STANDARD DETAILS
FOR
PUBLIC SERVICES



OPTION "A"



OPTION "B"

EXCEPT AS INDICATED BELOW FOR SHORT LENGTHS, EACH SECTION OF PIPELINE SHALL BE THOROUGHLY CLEANED WITH ONE POLYURETHANE FOAM PIG EACH TIME.

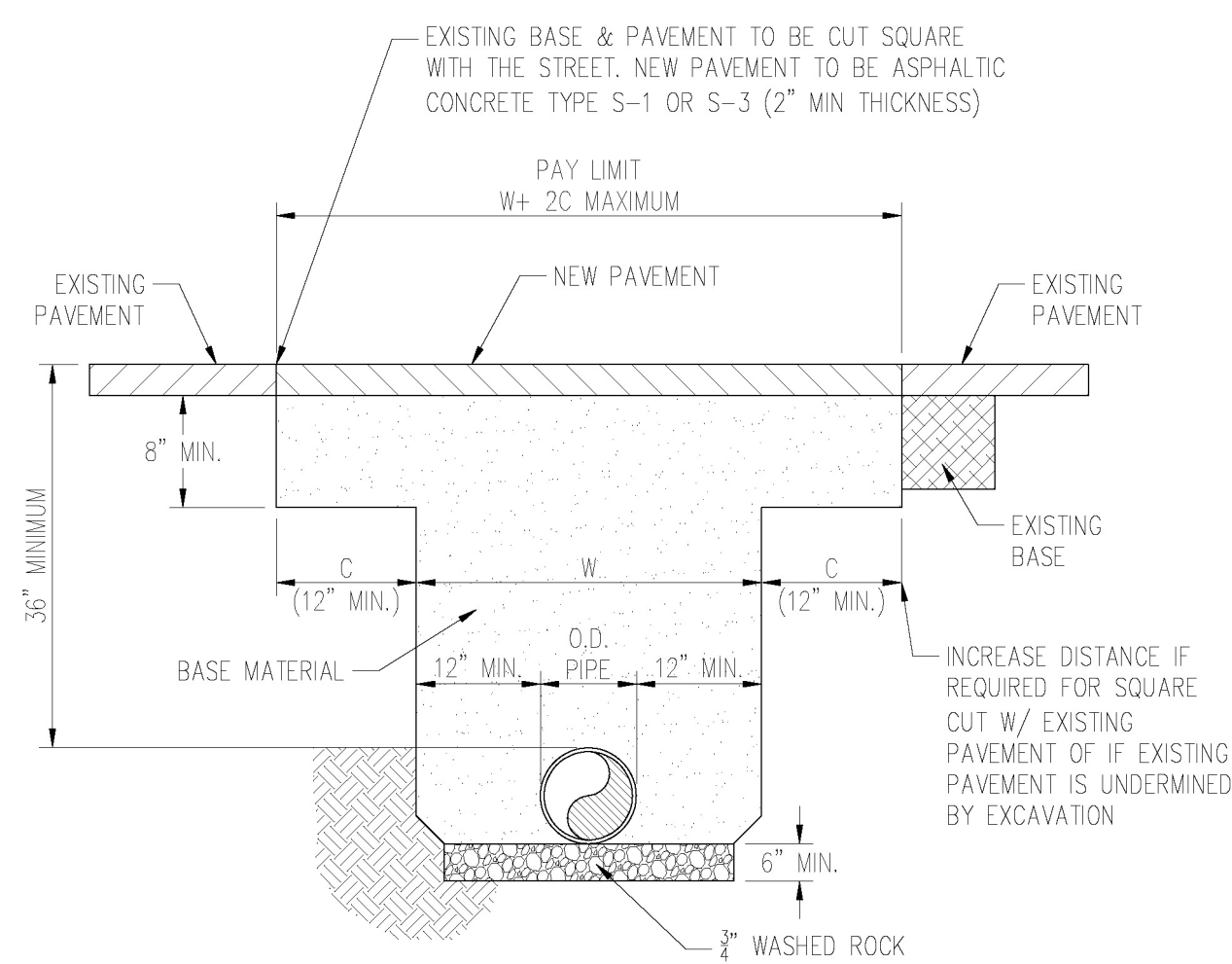
A CITY REPRESENTATIVE SHALL BE PRESENT AT THE TIME OF INSERTION AND EXIT OF THE PIGS. LINES SHALL BE PIGGED AND/OR FLUSHED UNTIL THE WATER RUNS CLEAN AND IS APPROVED BY THE CITY REPRESENTATIVE. THE CITY REPRESENTATIVE SHALL BE GIVEN 48 HOURS MINIMUM NOTICE PRIOR TO PIGGING OR FLUSHING.

ON SHORT LENGTHS OF PIPELINE (100' MAX) CLEANING MAY BE ACCOMPLISHED BY FLUSHING WITH WATER AT A MINIMUM VELOCITY OF 2.5 FEET PER SECOND. WATER REQUIRED FOR TESTING AND CLEANING SHALL BE SUPPLIED BY THE CITY AT THE CONTRACTOR'S EXPENSE. WATER SHALL BE FROM A POTABLE SOURCE SATISFACTORY TO THE CITY.

NOTES:

1. REDUCER TO BE NEW MAIN SIZE PLUS 2" LARGER.
2. WYE TO BE PLUGGED AND RESTRAINED AT THE END OF PIGGING.
3. AT THE END OF THE PROJECT, ALL CORPORATIONS TO BE REMOVED AND CORPORATION PLUGS TO BE INSTALLED.
4. SAMPLE POINT TO BE LOCATED AFTER BACKFLOW PREVENTER.
5. ALL MATERIALS, PIPE, AND FITTINGS SHALL CONFORM THE THE CITY OF WINTER GARDEN STANDARDS.
6. INSTALL REDUCER WITH PIG INSIDE. ONLY ONE PIG WILL BE ALLOWED TO BE RUN THROUGH THE MAIN AT A TIME. PIPE EXTENSION CAP MAY BE REQUIRED.
7. PIGGING PROCEDURE TO BE PERFORMED AT LEAST TWICE.

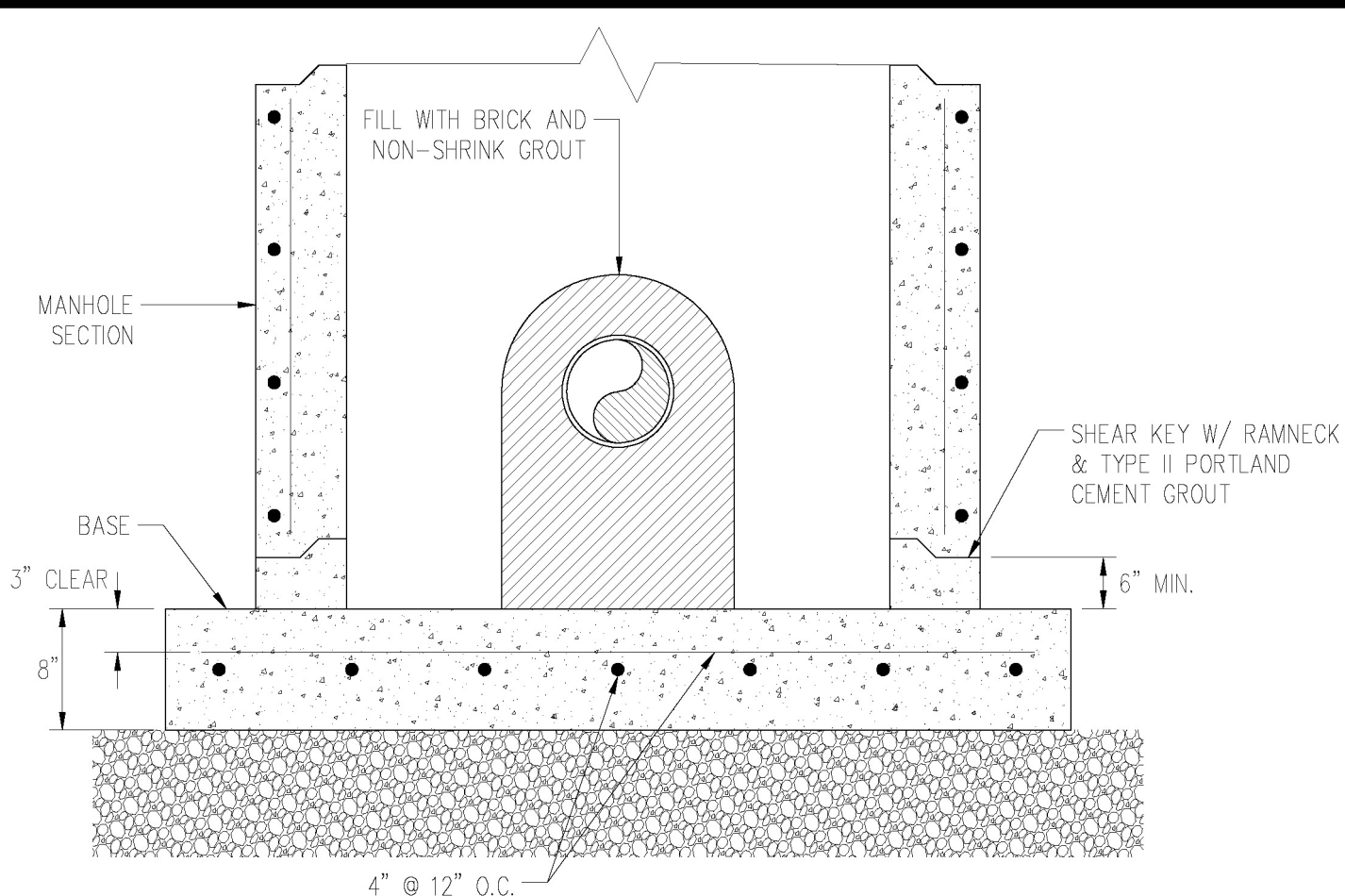
1 PIPE PIGGING DETAIL
N.T.S.



W = O.D. OF PIPE + 12" MIN. AT BOTH SIDES OF PIPE
C = VARIES W/ SOIL TYPE (CONTACT ENGINEER OF RECORD FOR DETERMINATION IN THE FIELD)

NOTE:
ALL BACKFILL COMPACTION SHALL BE 98% OF MAXIMUM DENSITY.

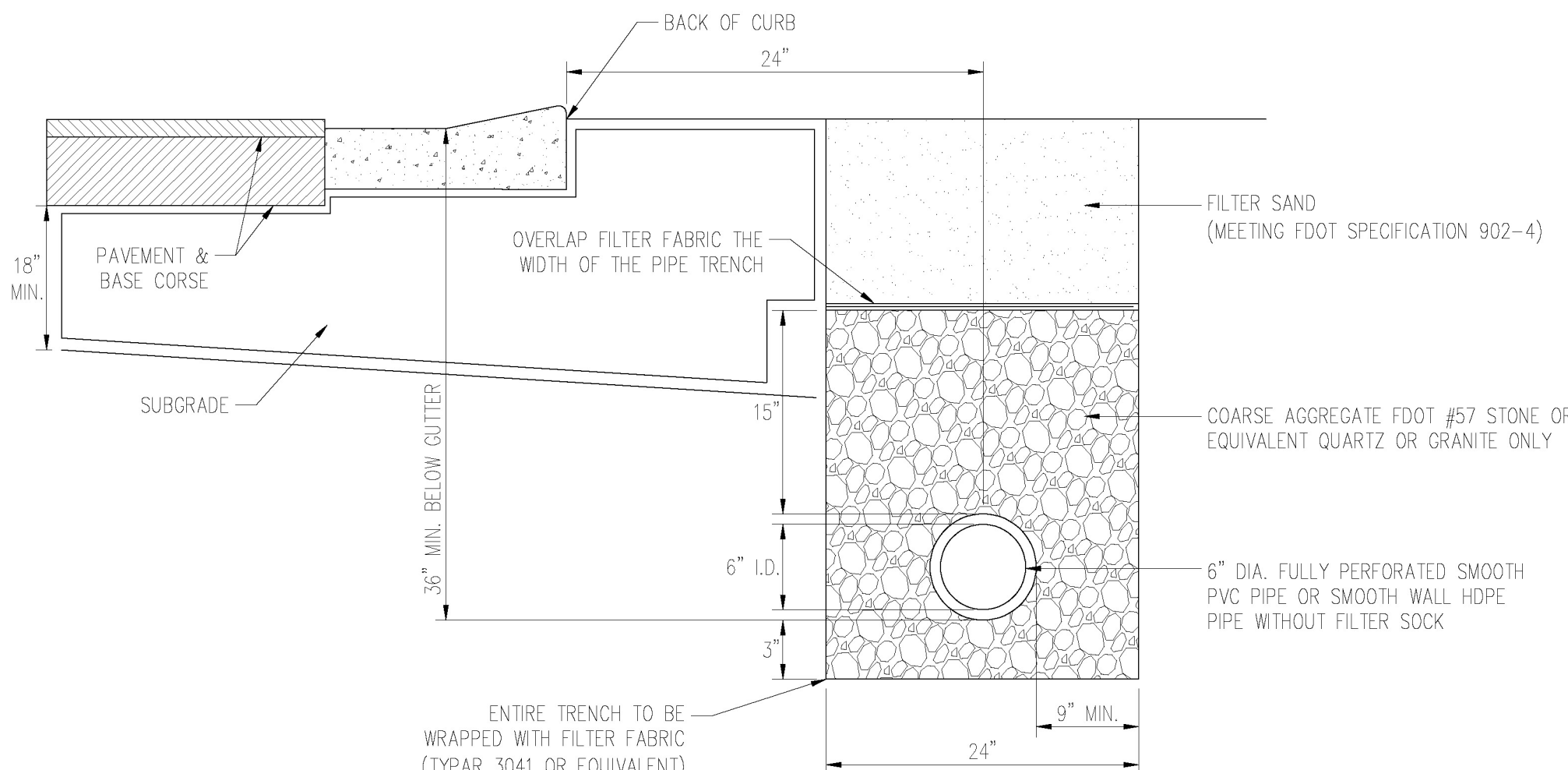
5 PAVEMENT RESTORATION DETAIL
N.T.S.



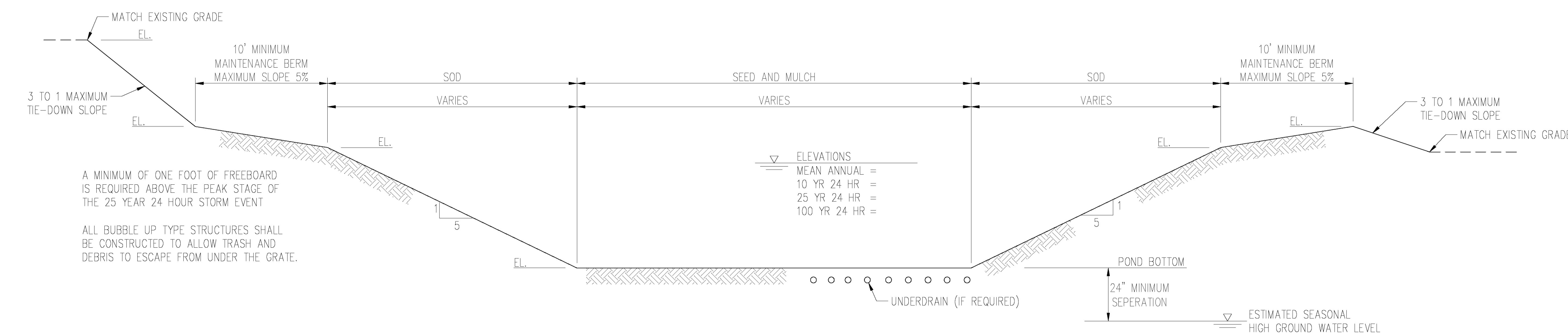
NOTES:

1. TO CONSTRUCT NEW MANHOLE OVER EXISTING SEWER, SLIDE BASE UNDER PIPE AND SET MANHOLE SECTION ON TOP.
2. FOR ADDITIONAL DETAILS NOT SHOWN, SEE "GRAVITY SEWER MANHOLE STANDARD."
3. AT THE END OF THE PROJECT, ALL CORPORATIONS TO BE REMOVED AND CORPORATION PLUGS TO BE INSTALLED. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPORT OF EXISTING SEWER DURING INSTALLATION OF MANHOLE.

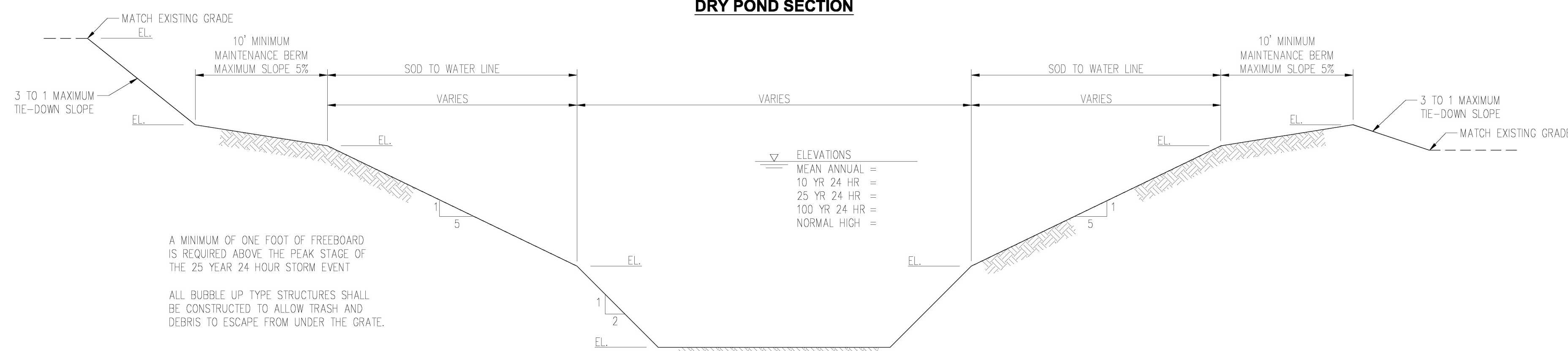
2 GRAVITY SEWER DOGHOUSE MANHOLE
N.T.S.



3 UNDERDRAIN DETAIL
N.T.S.



DRY POND SECTION



WET POND SECTION

4 POND SECTIONS
N.T.S.

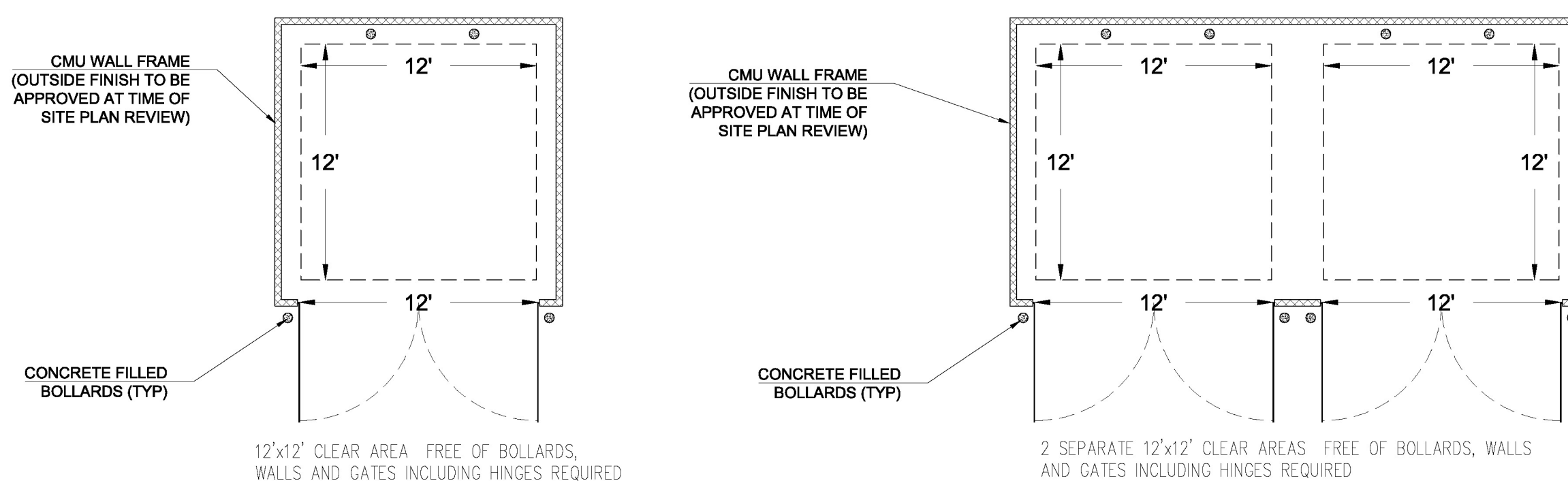
WINTER GARDEN STANDARDS INCORPORATED WITH DESIGN ENGINEERS DOCUMENTS:

THE DETAILS, NOTES AND SPECIFICATIONS SHOWN ON THIS SHEET REPRESENT THE NOTED STANDARDS OF THE CITY OF WINTER GARDEN FOR CONSTRUCTION OF PUBLIC WORKS AND UTILITY INFRASTRUCTURE. BY INCLUDING THE STANDARDS, THE DESIGN ENGINEER HAS ACKNOWLEDGED THAT THEY ARE EFFECTIVE TO THE PROJECT AND THAT DETAILS, NOTES, OR SPECIFICATIONS ARE AS PROVIDED BY THE CITY AND HAVE NOT BEEN REVISED OR MODIFIED WITHOUT WRITTEN APPROVAL FROM THE CITY ENGINEER OR UTILITY DIRECTOR.



THE BACKGROUND COLOR SHALL BE RETROREFLECTIVE GREEN AND THE LETTERING AND BORDER SHALL BE RETROREFLECTIVE WHITE.

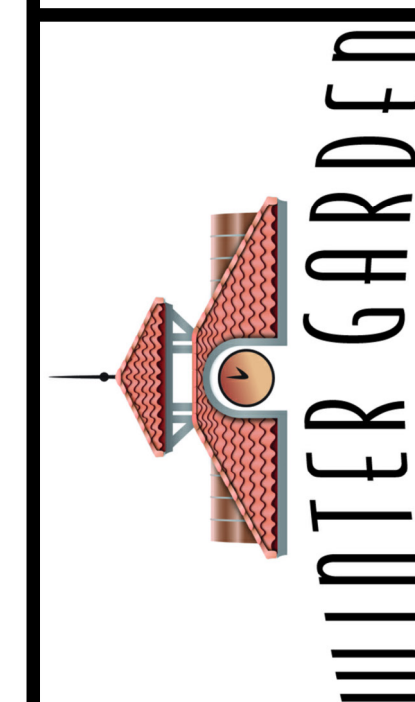
6 STREET SIGN BLADE DETAIL
N.T.S.



7 DUMPSTER LAYOUT DETAIL
N.T.S.

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NO.	RW-5-025

CITY OF WINTER GARDEN, FLORIDA
STANDARDS AND SPECIFICATIONS
FOR UTILITIES CONSTRUCTION



STANDARD DETAILS
FOR
MISCELLANEOUS DETAILS

DATE
NOVEMBER 2021
SHEET

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