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UTILITY NOTIFICATION

UTILITY LOCATIONS DEPICTED WITHIN THIS CONSTRUCTION PLAN SET HAVE BEEN COMPILED FROM FIELD MEASUREMENTS AND DOCUMENTS SUPPLIED BY THE VARIOUS UTILITY COMPANIES. THE ENGINEER MAKES NO CLAIM TO THE ACCURACY OF THE UTILITY LOCATIONS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL NOTIFY ALL UTILITIES AND IS RESPONSIBLE FOR VERIFYING THE DEPTHS AND FIELD LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. ACTUAL UTILITY LOCATIONS AND DEPTHS MAY VARY FROM THOSE DEPICTED WITHIN THIS CONSTRUCTION PLAN SET. PROTECTION OF ALL UTILITIES WITHIN THE AREA OF CONSTRUCTION AND ALL COSTS TO REMEDY DAMAGES TO EXISTING UTILITIES AND DISTURBED AREAS SHALL BE BORNE BY THE CONTRACTOR.

CITY OF VENICE MAJOR SITE & DEVELOPMENT AMENDMENT PLANS FOR

1460 E VENICE AVE. VENICE, FLORIDA

(APPROVED SITE & DEVELOPMENT PLAN AMENDMENT PETITION NO. 05-25SP)

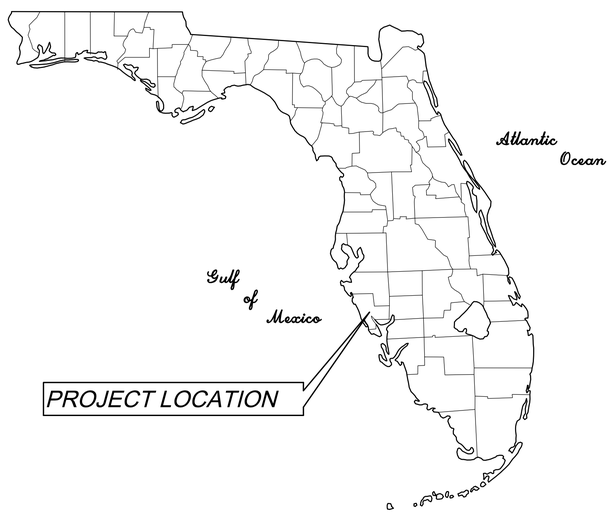
INTENDED USE: RETAIL
EXISTING LAND USE: VACANT/COMMERCIAL, RETAIL, OFFICE, MEDICAL
FUTURE LAND USE: MIXED USE RESIDENTIAL (MUR)
ZONING: PLANNING UNIT DEVELOPMENT (PUD)/ VENETIAN GATEWAY DISTRICT (VG)

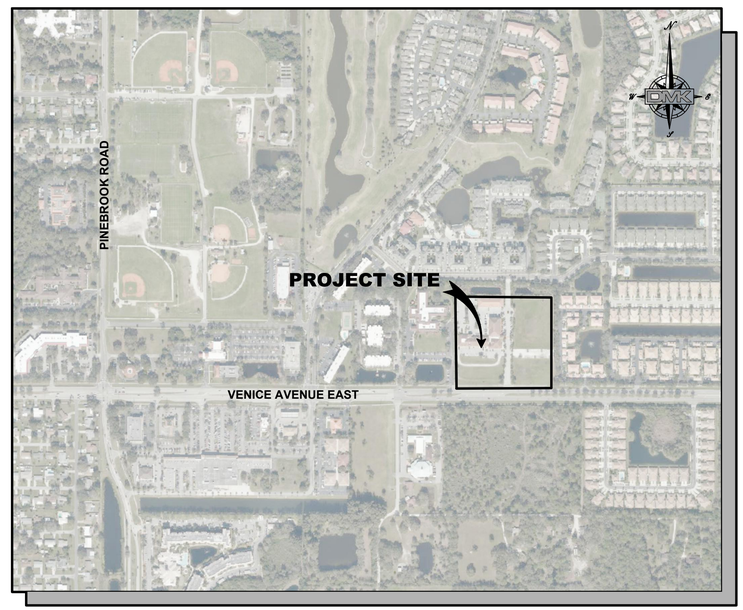
ADJACENT EXISTING LAND USE
NORTH: RESIDENTIAL
SOUTH: RIGHT-OF-WAY, E VENICE AVE.
EAST: RESIDENTIAL
WEST: NURSING HOME

ADJACENT VENICE ZONING DESIGNATIONS
NORTH: PLANNED UNIT DEVELOPMENT (PUD) AND RESIDENTIAL MULTI-FAMILY (RMF-2)
SOUTH: RIGHT-OF-WAY, E VENICE AVE.
EAST: RESIDENTIAL MULTI-FAMILY (RMF-3/VG
WEST: OFFICE, PROFESSIONAL AND INSTITUTIONAL (OPI)/VG

LOT COVERAGE TABULATION

	PRE		POST	
	AREA (Ac.)	PERCENTAGE	AREA (Ac.)	PERCENTAGE
LOT AREA	10.39	100%	10.39	100%
BUILDING COVERAGE	1.71	16.46%	2.01	19.35%
IMPERVIOUS AREA	6.95	66.88%	7.93	76.32%
PERVIOUS AREA	3.44	33.11%	2.46	23.68%





LOCATION MAP
N.T.S.
SARASOTA COUNTY, FLORIDA

1460 E. VENICE AVE
VENICE, FL 34292
PARCEL I.D. No. 0412-02-0001
SECTION 9, TOWNSHIP 39S, RANGE 19E

Sheet List Table

Sheet Number	Sheet Title
1	Cover Sheet
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5	Master Site Plan
6	Site Development Plan
7	Paving Grading & Drainage Plan
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9	Paving Grading & Drainage Details
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11	Utility Plan
12	Utility Details
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14	Best Management Practice Plan Details

CONSTRUCTION STANDARDS NOTE:

1. ALL CONSTRUCTION MUST MEET THE MINIMUM DESIGN STANDARDS OF THE LATEST VERSION OF THE CITY STANDARD DETAILS. WHERE CONFLICTS EXIST BETWEEN THE APPROVED CONSTRUCTION PLANS AND THE SPECIFICATIONS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER FOR CLARIFICATION PRIOR TO ORDERING MATERIALS OR INITIATING CONSTRUCTION OF THE ITEM WITH POTENTIAL CONFLICTS
2. STATEMENT OF OWNERSHIP AND CONTROL: THE SUBJECT PARCELS ARE UNDER THE UNIFIED OWNERSHIP AND CONTROL OF THE OWNER, GALLERIA SHOPS, LLC. OPERATION AND MAINTENANCE RESPONSIBILITY WILL BE THAT OF THE OWNER.

REQUIRED NOTES:

1. A SEPARATE BUILDING PERMIT MUST BE APPLIED FOR AND ISSUED FOR EVERY SIGN, WALL, OUTDOOR LIGHTING AND STRUCTURE ON THE SITE. THE APPROVAL OF THESE CONSTRUCTION PLANS DOES NOT EXEMPT THE CONTRACTOR FROM OBTAINING THE NECESSARY BUILDING PERMITS.
2. ALL WORK CONDUCTED IN THE CITY OF VENICE RIGHT-OF-WAY (ROW) WILL REQUIRE THE ISSUANCE OF A ROW PERMIT. ALL WORK CONDUCTED IN THE SARASOTA COUNTY RIGHT-OF-WAY WILL REQUIRE ISSUANCE OF A SARASOTA COUNTY RIGHT-OF-WAY PERMIT.
3. TREE REMOVAL PERMIT MUST BE OBTAINED FROM CITY OF VENICE.
4. POST DEVELOPMENT RUNOFF DOES NOT EXCEED PRE-DEVELOPMENT RUNOFF VOLUME OR RATE FOR A 24-HOUR, 25-YEAR STORM EVENT.
5. ALL FIRE SERVICE BACKFLOW ASSEMBLIES SHALL BE INSTALLED BY A CERTIFIED CONTRACTOR WITH A CLASS I, II, OR V CERTIFICATE OF COMPETENCY ISSUED BY THE STATE FIRE MARSHALL AS PER F.S. 633.521.
6. CONSTRUCTION SITE MUST BE POSTED WITH 24-HOUR CONTACT INFORMATION.
7. ALL UTILITIES, WHETHER PUBLIC OR PRIVATE, SHALL MEET CITY OF VENICE STANDARDS.
8. CONTACT PUBLIC WORKS SOLID WASTE DIVISION (941-486-2422) FOR APPROVAL OF DUMPSTER LOCATION AND LAYOUT PRIOR TO CONSTRUCTION.
9. THIS SITE AND DEVELOPMENT PLAN AMENDMENT DOES NOT AUTHORIZE DEVELOPMENT OUTSIDE THE LIMITS OF DEVELOPMENT AS DEPICTED ON THE SITE DEVELOPMENT PLAN SHEET.

UTILITY PROVIDERS

WATER & SEWER:
CITY OF VENICE UTILITIES DEPT.
200 N. WARFIELD AVE
VENICE, FL 34285

ELECTRICITY:
FLORIDA POWER & LIGHT (FP&L)
425 ALBEE FARM ROAD
VENICE, FLORIDA, 34285

PHONE:
VERIZON FLORIDA, INC.
1909 US HIGHWAY 301 N. BLDG D
TAMPA, FL 33619

CABLE:
COMCAST CABLEVISION OF WEST FLORIDA
5202 FRUITVILLE ROAD
SARASOTA, FL 34232

OWNER:
GALLERIA SHOPS, LLC.
1222 SW 47th STREET, SUITE 330
CAPE CORAL, FL 33094

SURVEYOR:
BRITT SURVEYING, INC.
606 CYPRESS AVE
VENICE, FL 34285
TEL: (941) 439-1396

ENGINEER:
DMK ASSOCIATES
ENGINEERS ■ SURVEYORS
421 COMMERCIAL COURT, SUITE C
VENICE, FL 34292
TEL: (941) 412-1293 FAX: (941) 412-1043
EMAIL: info@dmkassoc.com
C.A. No. 3943

DMK PROJECT No. 19-0127

Timothy E. Roane
Digitally signed by Timothy E. Roane
DN: E=troane@dmkassoc.com, CN=Timothy E. Roane, O=Engineering, Dr/Dmk Associates, Inc., L=Venice, S=Florida, C=US
Date: 2020.04.08 09:41:47-04'00'

ENGINEER OF RECORD
TIMOTHY E. ROANE, P.E.
STATE OF FLORIDA NO. 63113

DATE	REVISION	BY

DMK ASSOCIATES
ENGINEERS ■ SURVEYORS
421 Commercial Court, Suite C Venice, Florida 34292
Phone (941)412-1293, Fax (941)412-1043
Certificate of Authorization No. 3943

DATE 11/25/2019	CKD. BY	DATE
DRAWN DRA	TER	06/04/20
DESIGN DRA	TER	06/04/20
SCALE @ 22"x34"	DMK NO.	19-0127

MICHAEL ARANDA
THE GALLERIA SHOPS, LLC.
1222 SW 47th STREET SUITE 330
CAPE CORAL, FL. 33094

1460 E VENICE AVE
AERIAL SITE PLAN

ENGINEER OF RECORD
TIMOTHY E. ROANE, P.E.
STATE OF FLORIDA NO. 63113

SHEET No.
2

Drawing name: F:\Projects\2019\19-0127 1500 E. Venice Ave\dwg\19-0127_02 Aerial.dwg Tab: Aerial Date Printed: Thu, 04 Jun 2020 – 8:57am

GENERAL NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY, PRIOR TO BIDDING, TO INSPECT THE JOB SITE AND TO BE TOTALLY FAMILIAR WITH THE PLANS AND THEIR INTENT.
2. THE CONTRACTOR SHALL PROVIDE CERTIFIED RECORD DRAWING INFORMATION THAT MEET THE CITY OF VENICE PERMIT REQUIREMENTS TO THE ENGINEER.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF VENICE, FLORIDA, AND THE CITY STANDARD DETAIL SUPERSEDE.
4. THERE SHALL BE NO CHANGE OR DEVIATION OF THESE PLANS OR SPECIFICATIONS UNLESS PRIOR WRITTEN APPROVAL FROM THE CITY OF VENICE IS OBTAINED.
5. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF AND WHEN A POSSIBLE ERROR IS FOUND IN THE PLANS OR STAKED ALIGNMENT AND/OR GRADES.
6. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY AND ALL FIELD CONDITION(S) THAT WILL PREVENT THE CONSTRUCTION OF ANY ELEMENT OF THE PROPOSED PROJECT IN ACCORDANCE WITH THE DESIGN STANDARDS AND APPROVED CONSTRUCTION DOCUMENTS FOR THIS PROJECT. IN ALL INSTANCES, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO ANY INSTALLATION OF WORK. IF CONTRACTOR ELECTS TO INSTALL ANY WORK WHICH DEVIATES FROM THE APPROVED CONSTRUCTION DOCUMENTS WITHOUT PRIOR WRITTEN APPROVAL BY THE ENGINEER, THEN THE COST OF REMOVAL, REPAIR, REDESIGN AND/OR REPLACEMENT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR UNLESS SAID WORK IS ACCEPTED AS AN AS-BUILT DEVIATION BY THE CITY OR THE ENGINEER. IN NO CASE SHALL THE CITY OR ENGINEER BE RESPONSIBLE FOR THE COST OF REMOVAL, REPAIR, REDESIGN AND/OR REPLACEMENT OF ANY WORK THAT DEVIATES FROM THE DESIGN STANDARDS AND APPROVED CONSTRUCTION DOCUMENTS FOR THIS PROJECT.
7. CONSTRUCTION OF THE SIDEWALKS SHALL BE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT AND THE FLORIDA ACCESSIBILITY CODE, AND THE CITY OF VENICE STANDARD DETAILS.
8. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES PRIOR TO THE BEGINNING OF ANY ON-SITE OR OFF-SITE CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO IDENTIFY AND REPORT THE EXACT LOCATION OF ALL EXISTING UTILITIES WITHIN THE CONSTRUCTION LIMITS, WHETHER THEY ARE IDENTIFIED ON THE DRAWINGS OR NOT.
9. CONTRACTOR SHALL INCLUDE IN HIS BID PRICE THE COST OF EROSION CONTROL. EROSION AND SEDIMENT CONTROL BEST MANAGEMENT SHALL BE OBSERVED DURING CONSTRUCTION BY THE CONTRACTOR. THE METHODS WHICH SHOULD BE USED INCLUDE BUT ARE NOT LIMITED TO:
   a. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SILTATION ENTERING THE STORM DRAINAGE SYSTEM BOTH ON-SITE AND OFF-SITE. THE CONTRACTOR SHALL UTILIZE SAND BAGS AND HAY BALES OR OTHER EROSION CONTROL METHODS TO CONTROL EROSION.
   b. CONTRACTOR SHALL PLACE SOD AROUND ALL INLETS A MINIMUM OF 2 FEET TO MINIMIZE ROAD AND STORM DRAINAGE SILTATION.
   c. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AT ALL TIMES DURING CONSTRUCTION BY UTILIZING WATER TRUCKS, ANTI-DRAFT FENCING AND BY COVERING OPEN BODIED TRUCKS TRANSPORTING DEBRIS.
10. WHERE EXCAVATIONS ARE IN CLOSE PROXIMITY OF TREES, THE CONTRACTOR SHALL USE EXTREME CARE NOT TO DAMAGE THE ROOT SYSTEMS OF TREES AND OTHER LANDSCAPE FEATURES WHICH ARE TO BE SAVED AND/OR SALVAGED FOR RESTORATION PURPOSES. NO EQUIPMENT, SUPPLIES OR VEHICLES SHALL BE STORED OR PARKED WITHIN THE DRIP LINE OF TREES TO REMAIN AND BE PRESERVED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM ALL EMPLOYEES AND SUBCONTRACTORS OF THIS REQUIREMENT AND TO ENFORCE SAME.
11. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS DURING CONSTRUCTION TO CONTROL EROSION AND PREVENT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, STORM DRAINS AND/OR ADJACENT PROPERTIES. SILT SCREENS, AND/OR FILTER FABRIC, OR OTHER STANDARD EROSION CONTROL DEVICES SHALL BE PROVIDED IN ACCORDANCE WITH F.D.O.T. STANDARDS. EROSION CONTROL DEVICES (E.G. SILT SCREENS, TURBIDITY CURTAINS) SHALL BE INSTALLED AND MAINTAINED IN LOCATIONS INDICATED ON THE CONSTRUCTION PLANS OR ADDITIONALLY AT LOCATIONS WHERE CONSTRUCTION ACTIVITIES OR UNSTABILZED SOILS HAVE THE POTENTIAL TO BE TRANSPORTED INTO AND/OR RESULT IN SEDIMENTATION OR TURBIDITY ENTERING WATERWAYS, WATER BODIES, WETLANDS, OR PRIVATE PROPERTIES.
12. CONTRACTOR SHALL MAINTAIN TRAFFIC IN ACCORDANCE WITH FDOT INDEX 600 (LATEST) STANDARDS.
13. CONTRACTOR SHALL SPRINKLE OR OTHERWISE APPLY WATER TO EXPOSED CONSTRUCTION AREAS TO CONTROL SIGNIFICANT EROSION AND FUGITIVE DUST.
14. ALL CLEARING, GRUBBING AND CONSTRUCTION DEBRIS TO BE REMOVED FROM SITE AND PROPERLY DISPOSED.
15. THE REMOVAL OF ANY EXISTING STRUCTURES OR STORM SEWERS, HEADWALLS ETC., SHALL BE CONSIDERED INCIDENTAL WORK AND NO ADDITIONAL COMPENSATION SHALL BE MADE FOR THESE ITEMS.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AREAS FOR STAGING AND STOCKPILING CONSTRUCTION MATERIALS AND WASTE OVERBURDEN INCLUDING APPROPRIATE EROSION AND SEDIMENTATION CONTROL DEVICES AND BEST MANAGEMENT PRACTICES.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER HANDLING AND DISPOSAL OF CONTAMINATED SOILS IN ACCORDANCE WITH ALL STATE AND FEDERAL LAWS.
18. THE ONLY ACCEPTABLE METHODS FOR REMOVAL OF PAVEMENT MARKINGS ARE HYDRO-BLASTING OR GRINDING. EXISTING MARKINGS SHALL NO LONGER BE VISIBLE UPON COMPLETION OF THE REMOVAL, AS DEEMED BY THE ASSIGNED THE CITY OF VENICE PROJECT INSPECTOR / ENGINEER.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING DEWATERING PERMIT BY SWFWMD (IF REQUIRED) AND SHALL ALLOW 45 DAYS FOR APPROVAL PROCESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FOLLOWING ALL PERMIT REQUIREMENTS RELATED TO DEWATERING. ALL WORK PERFORMED, INCLUDING PERMITTING, WILL BE INCIDENTAL TO THE PAYMENT ITEMS OF STANDARD SPECIFICATIONS, SECTION 120, EXCAVATION AND EMBANKMENT
20. SOD SHALL BE LAID AT BACK OF CURB, PAVEMENT EDGES, SWALES, INLETS, MITERED ENDWALLS, AND DETENTION AREAS AS SHOWN IN DETAILS OR AS DIRECTED BY THE ENGINEER, AND IN ALL AREAS DISTURBED BY THE WORK THAT IS NOT UNDER PROPOSED HARDSCAPE IMPROVMENTS
21. ALL AREAS DISTURBED BY CONSTRUCTION ARE TO BE SODDED WITHIN 7 CALENDAR DAYS TO PREVENT EROSION
22. ALL PROPOSED GROUND ELEVATIONS ARE FINISHED SOD ELEVATIONS. FINISH GRADING SHALL BE 0.2 FEET LESS THAN ELEVATIONS SHOWN TO ALLOW FOR THICKNESS OF SOD.
23. ALL TYPE B (CONCRETE, BROKEN ASPHALT, ROCKS), TYPE C (VEGETATIVE LAND CLEARING DEBRIS), OR TYPE D (REFUSE, PLASTIC, WOOD, METAL, ETC.) FILLS GENERATED BY THE PROJECT SHALL BE DISPOSED OF AT A PERMITTED LANDFILL OR RECYCLE FACILITY. ALL EXCESS TYPE A (CLEAN EARTHEN MATERIAL) SHALL BE HAULED TO A PERMITTED LANDFILL, CITY OWNED PROPERTY, OR SITE AUTHORIZED UNDER A BUILDING PERMIT, EARTH MOVING PERMIT, OR CONSTRUCTION PLAN APPROVAL TO RECEIVE FILL.
24. DURING THE PROJECT, ALL CLEARING AND STOCKPILING OF FILLS SHALL BE CONTAINED WITHIN THE PROJECT LIMITS. TEMPORARY STOCKPILING OF ANY TYPE A, B, C, OR D FILLS UPON PRIVATE PROPERTIES REQUIRES AUTHORIZATION FROM THE CITY OF VENICE IN THE FORM OF AN EARTH MOVING PERMIT OR TEMPORARY CONSTRUCTION EASEMENT.
25. ALL EARTHWORK AND COMPACTION SHALL BE INSPECTED BY THE ENGINEER OR HIS DULY APPOINTED REPRESENTATIVE, PRIOR TO FILLING OR CONSTRUCTION.
26. CONTRACTOR SHALL MAINTAIN SLOPES AND SOD UNTIL COMPLETION AND ACCEPTANCE OF TOTAL PROJECT OR GROWTH IS ESTABLISHED. UNTIL ACCEPTANCE, ALL EROSION, SILTATION AND MAINTENANCE OF GRADES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
27. PLEASE NOTE THAT ON PLANS, POSITIVE DRAINAGE SHALL BE PROVIDED FOR ALL ADJACENT PROPERTIES AND MAINTAIN ALL HISTORIC OFFSITE FLOW PATTERNS.
28. IT IS THE CONTRACTORS RESPONSIBILITY TO BARRICADE AREAS UNDER CONSTRUCTION PURSUANT TO MAINTENANCE OF TRAFFIC PLANS OR AS OTHERWISE APPROVED FOR USE.
29. BOUNDARY TREE PROTECTION. BOUNDARY TREES ARE TREES ON PROPERTY ADJACENT TO THE SUBJECT PROPERTY WITH A CRITICAL ROOT ZONE THAT WILL BE IMPACTED BY THE PROPOSED ACTIVITY. BOUNDARY TREES SHALL BE REQUIRED TO HAVE A TREE PROTECTION ZONES ESTABLISHED AND BARRICADED PRIOR TO ANY LAND DISTURBANCE ACTIVITY.

GENERAL NOTES (CONTINUED):

29. A TREE PERMIT WILL BE REQUIRED PRIOR TO ANY CONSTRUCTION, NATIVE VEGETATIVE REMOVAL WITHIN THE DRIPLINE OF A TREE, AND/OR TREE REMOVAL.
30. ANY WELLS DISCOVERED DURING EXCAVATION, EARTHMOVING OR CONSTRUCTION MUST BE REPORTED TO THE SARASOTA COUNTY HEALTH DEPARTMENT ENVIRONMENTAL HEALTH WITHIN 24 HOURS OF DISCOVERY.
31. ALL WELLS ON SITE SHALL BE PLUGGED BY A LICENSED WELL DRILLING CONTRACTOR IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL REGULATIONS.
32. IN ADDITION TO THE CONCRETE SIDEWALK SHOWN TO BE REMOVED AND REPLACED, ANY EXISTING SIDEWALK PANELS ALONG THE PERIMETER OF THE SITE THAT IS DAMAGED OR CRACKED SHALL ALSO BE REMOVED AND REPLACED.
33. STANDARD PARKING LOT STRIPING SHALL COMPLY WITH SECTION 710 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

GENERAL SIGNAGE AND PAVEMENT MARKING NOTES:

1. SIGNAGE AND PAVEMENT MARKING TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FDOT "ROADWAY AND TRAFFIC DESIGN STANDARDS". EXCEPT NO COLORS OTHER THEN WHITE AND BLUE SHALL BE USED.
2. THE STOP BARS SHALL BE STRIPED WITH 4 MIL THERMOPLASTIC PAINT. PARKING LOT STRIPING SHALL BE TRAFFIC RATED PAVEMENT PAINT.
3. ALL CITY STREET SIGNS WILL BE BLUE BACKGROUND WITH 6" WHITE LETTERS AND CONSTRUCTED WITH HIGH INTENSITY REFLECTORIZED MATERIAL. LOCAL ROAD SIGNS SHALL BE 9 INCHES WIDE. ALL STREET SIGNS DESIGNS TO BE APPROVED BY THE DIRECTOR OF PUBLIC WORKS PRIOR TO INSTALLATION.
4. IF A CITY OF VENICE-OWNED SIGN IS TO BE REMOVED, COORDINATE RETURNING THE CITY OF VENICE PROPERTY WITH THE PUBLIC WORKS DEPARTMENT AT 941-486-2626.
5. ALL SIGNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH MUTCD CRITERIA FOR SIGN SIZE, SHAPE, LETTERING DIMENSIONS AND REFLECTIVITY.
6. ALL STREET LIGHT SPLICES SHALL BE MADE USING "RAYCHEM GHFC-2" OR APPROVED EQUAL, AND BE LOCATED IN THE PULL BOX.

GENERAL DRAINAGE PIPE NOTES:

1. ALL NEW STORM DRAIN LINES AND ASSOCIATED COMPONENTS SHALL BE CONSTRUCTED TO ALIGNMENT AND LOCATION AS SHOWN IN THE PLANS UNLESS OTHERWISE DIRECTED BY ENGINEER.
2. ALL CONCRETE DRAINAGE STRUCTURES AND PIPES SHALL BE CONSTRUCTED WITH 3,000 PSI CONCRETE.
3. ALL DRAINAGE PIPE JOINTS SHALL BE WRAPPED PER FDOT INDEX 280.
4. ALL REINFORCED CONCRETE PIPE (RCP), & ELLIPTICAL REINFORCED CONCRETE PIPE (ERCP) SHALL BE CLASS III PIPE PER FDOT INDEX 205.
5. ALL ERCP SHALL BE INSTALLED WITH THE LONGITUDINAL AXIS PLACED HORIZONTALLY UNLESS NOTED OTHERWISE.
6. OR STORM WATER DRAINAGE PIPES AND FITTINGS, HANCOR HI-q HIGH DENSITY POLYETHYLENE (HDPE) (OR APPROVED EQUAL), MEETING THE FOLLOWING REQUIREMENTS AND APPROVED BY CITY OF VENICE, CITY ENGINEERS.
   a. AASHTO M252 – SPECIFICATIONS FOR CORRUGATED POLYETHYLENE DRAINAGE TUBING, 3 INCH – 10 INCH DIAMETER.
   b. AASHTO M294 – SPECIFICATIONS FOR CORRUGATED POLYETHYLENE PIPE, 12 INCH – 36 INCH DIA.
   c. ASTM D1056 – SPECIFICATIONS FOR FLEXIBLE CELLULAR MATERIAL – SPONGE OR EXPANDED RUBBER.
   d. ASTM D1248 – SPECIFICATIONS FOR POLYETHYLENE PLASTIC MOLDING AND EXTRUSION MATERIALS.
   e. ASTM D2321 – PRACTICE FOR UNDERGROUND INSTALLATION OF FLEXIBLE THERMOPLASTIC SEWER PIPE.

CITY of VENICE STORMWATER GENERAL NOTES:

1. ALL STORMWATER STRUCTURES SHALL BE BEDDED ON 6" MIN. COMPACTED GRAVEL OR CRUSHED STONE.
2. STORMWATER PIPES INSTALLED BELOW THE WATER TABLE, WITHIN WET CONDITIONS WILL REQUIRED 6" MIN COMPACTED GRAVEL OR CRUSHED STONE BEDDING.
3. ALL STORMWATER PIPES AND STRUCTURES WITHIN PUBLIC TRAFFICABLE AREAS SHALL BE REINFORCED CONCRETE UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
4. STORMWATER PIPES WITHIN PRIVATE PROPERTY MAY BE SMOOTH WALLED HDPE OR A-2000 PVC WITH WATERTIGHT CONNECTIONS AND SUFFICIENT COVER AS CALCULATED BY THE EOR. ROOF DRAINAGE PIPE MAY BE C900 DR-25 PVC WHITE COLOR OR BLUE COLOR WITH WHITE TAPE.
5. NO LIFTING HOLES OR OTHER SIMILAR PENETRATIONS OF STORMWATER PIPING PERMITTED. ALL PIPING SHALL BE WRAPPED WITH MIRIFI FILTER FABRIC OR EQUAL.
6. ALL PIPE JOINTS WILL BE GASKETED ACCORDING TO THE MANUFACTURE, FDOT AND ASTM STANDARDS TO PROVIDE A LEAK PROOF CONNECTION.
7. ALL PRE-CAST STRUCTURES SHALL MEET FDOT AND ASTM C-478 STANDARDS.
8. INLET GRATINGS IN AREAS ACCESSIBLE TO BICYCLE OR TO PEDESTRIAN USE MUST BE RETICULINE OR OF SIMILAR MANUFACTURE.
9. INLET GRATING IN CORROSIVE AREAS SHALL BE GALVANIZED.
10. STORMWATER INLETS SHOULD BE DESIGNED TO REJECT DEBRIS , TRASH, AND OTHER POLUTANTS FROM ENTERING INTO PUBLIC STRORMWATER CONVEYANCES.
11. OUTFALL INTO SURFACE WATERS SHOULD BE DESIGNED WITH DEVICES TO REDUCE THE DISCHARGE OF FOREIGN MATERIAL.

MAINTENANCE REQUIREMENT NOTES:

1. REMOVE ANY TRASH OR DEBRIS FROM SWALES, INLET STRUCTURE AND PIPES. SPECIAL CARE SHOULD BE TAKEN TO INSPECT THE CONTROL STRUCTURE ON A REGULAR BASIS TO REMOVE TRASH AND OR GRASS CLIPPINGS WHICH MAY INHIBIT PROPER SURFACE DRAINAGE.
2. INSPECT ANY AREAS SUBJECT TO EROSION AND SEED OR SOD AS NECESSARY.
3. INSPECT THE CONDITION OF THE WATER CONTROL STRUCTURES ON A REGULAR BASIS AND REPAIR AS NEEDED. IF THE DRAWDOWN SYSTEM OF THE WATER MANAGEMENT AREA DOES NOT FUNCTION AS ORIGINALLY DESIGNED, DETERMINE WHERE THE SYSTEM HAS FAILED AND REPAIR OR REPLACE AS REQUIRED TO MEET CHAPTERS 40D-4 AND 62-65, F.A.C. REQUIREMENTS.
4. ALL STORMWATER RETENTION FACILITY SHOULD BE INSPECTED ANNUALLY FOR THE PRESENCE OF ANY EXOTIC PLANTS SHOULD BE REMOVED AND MEASURES TAKEN TO PREVENT THEIR RETURN AND REPLACED WITH NATIVE SPECIES.
5. ADHERE TO ALL SPECIAL MAINTENANCE INSTRUCTION AS PROVIDED BY THE VARIOUS MATERIAL SUPPLIERS/MANUFACTURERS, AND MADE AVAILABLE VIA THE GENERAL CONTRACTOR UPON PROJECT COMPLETION.
6. COMPLY WITH ALL MAINTENANCE, INSPECTION AND REPORTING REQUIREMENTS AS SPECIFIED IN ANY REGULATORY AGENCY PERMITS (I.E. FDEP SURFACE WATER MANAGEMENT PERMIT).

EROSION CONTROL MAINTENANCE SCHEDULE:

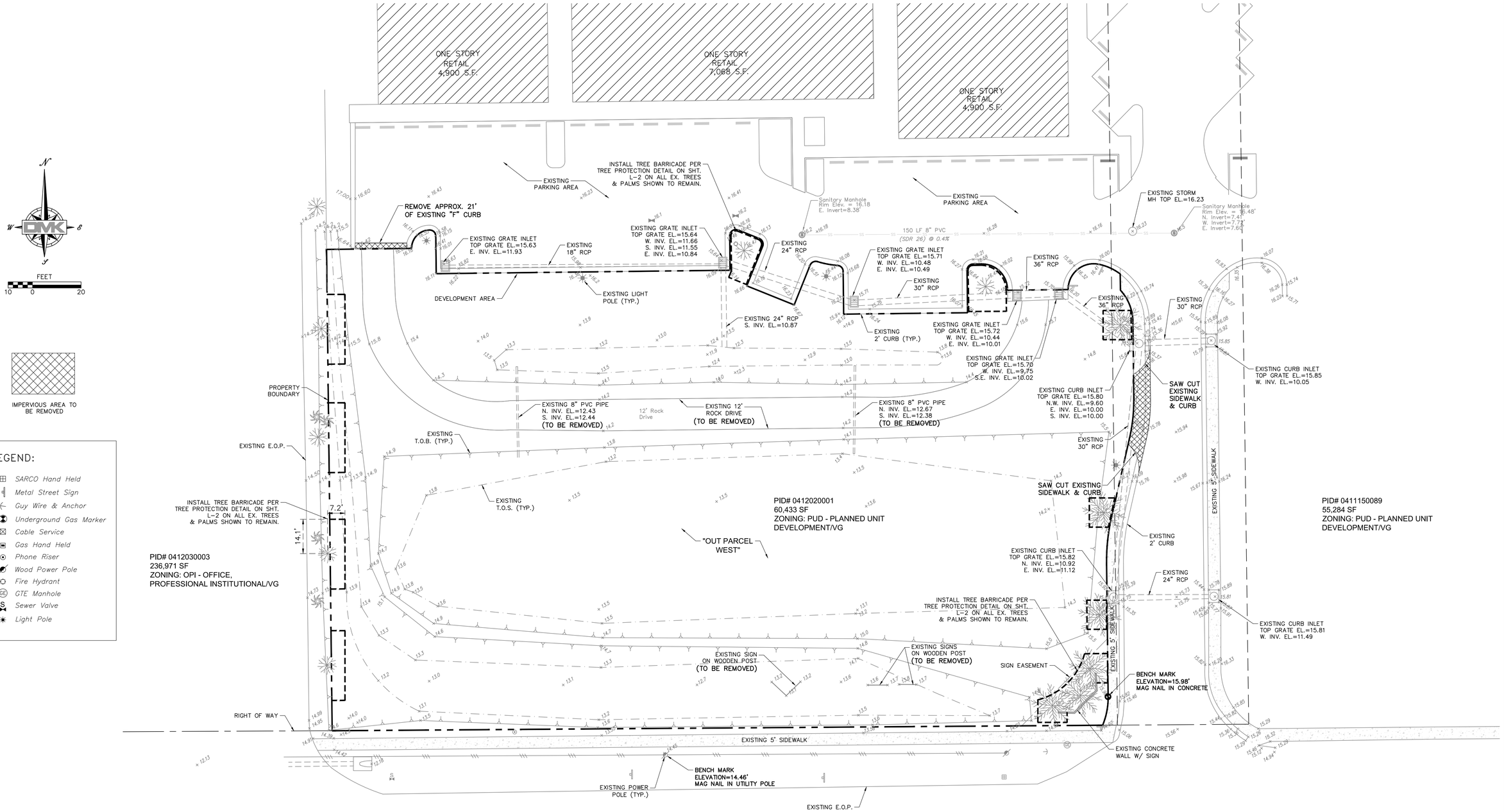
1. THE CONTRACTOR SHALL INSTALL SILT FENCE, AND OTHER EROSION CONTROL DEVICES AS SHOWN ON THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION. THESE INSTALLATIONS AS SHOWN ON THE DRAWINGS SHALL BE CONSIDERED THE MINIMUM EROSION/SILTATION PROTECTION REQUIRED FOR THE SITE.
2. IN ADDITION THE ENGINEER, OWNER, OR OWNER'S REPRESENTATIVE MAY DEEM IT NECESSARY TO INSTALL PROTECTIVE FACILITIES ELSEWHERE ON THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE EROSION PROTECTION FACILITIES THROUGH COMPLETION OF CONSTRUCTION. THE CONTRACTOR SHALL PERFORM DAILY INSPECTIONS OF THE FACILITIES TO ENSURE THAT THE EROSION PROTECTION FACILITIES ARE MAINTAINING THEIR PROTECTION FUNCTIONS AND INTEGRITY.
3. ALL EROSION PROTECTION FACILITIES SHALL BE REMOVED AFTER CONSTRUCTION COMPLETION, AND WHEN A VEGETATIVE COVER HAS BEEN WELL ESTABLISHED OVER THE CONSTRUCTED AREAS PER THE PLANS. THE CONTRACTOR SHALL REMOVE PROTECTION FACILITIES ONLY UPON APPROVAL BY THE ENGINEER, OWNER, OR OWNER'S REPRESENTATIVE.

WATER RESOURCE NOTES:

1. EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPS) IN ADDITION TO THOSE PRESENTED ON THE PLANS AND OUTLINED IN THE EROSION AND SEDIMENT CONTROL PLAN (ECP) AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE IMPLEMENTED AS NECESSARY TO PREVENT TURBID DISCHARGES FROM FLOWING ONTO ADJACENT PROPERTIES OR ROADWAYS, OFF SITE STORMWATER CONVEYANCES OR RECEIVING WATERS, OR ON SITE WETLANDS AND SURFACE WATERS. BMPS SHALL BE DESIGNED, INSTALLED, AND MAINTAINED BY THE SITE OPERATOR TO ENSURE THAT OFF SITE SURFACE WATER QUALITY REMAINS CONSISTENT WITH STATE AND LOCAL REGULATIONS. [THE OPERATOR IS THE ENTITY THAT OWNS OR OPERATES THE CONSTRUCTION ACTIVITY AND HAS AUTHORITY TO CONTROL THOSE ACTIVITIES AT THE PROJECT NECESSARY TO ENSURE COMPLIANCE.]
2. THE OPERATOR SHALL ENSURE THAT ADJACENT PROPERTIES ARE NOT IMPACTED BY WIND EROSION, OR EMISSIONS OF UNCONFINED PARTICULATE MATTER IN ACCORDANCE WITH RULE 62-296.320(4)(C)1, F.A.C., BY TAKING APPROPRIATE MEASURES TO STABILIZE AFFECTED AREAS.
3. FUEL AND OTHER PETROLEUM PRODUCT SPILLS THAT ENTER STORMWATER DRAINS OR WATERBODIES, OR FUEL AND OTHER PETROLEUM PRODUCT SPILLS THAT ARE IN EXCESS OF 25 GALLONS SHALL BE CONTAINED, CLEANED UP, AND IMMEDIATELY REPORTED TO PUBLIC WORKS (941) 240-8050. SMALLER GROUND SURFACE SPILLS SHALL BE CLEANED UP AS SOON AS PRACTICAL.
4. IF CONTAMINATED SOIL AND/OR GROUNDWATER IS DISCOVERED DURING DEVELOPMENT OF THE SITE, ALL ACTIVITY IN THE VICINITY OF THE CONTAMINATION SHALL IMMEDIATELY CEASE, AND PUBLIC WORKS SHALL BE CONTACTED (941) 240.8050.

POLLUTION PREVENTION NOTES

1. EROSION AND SEDIMENT CONTROL BMPS IN ADDITION TO THOSE PRESENTED ON THE PLANS AND OUTLINED IN THE EROSION AND SEDIMENT CONTROL PLAN (ECP), BEST MANAGEMENT PRACTICES (BMP) PLAN, OR STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE IMPLEMENTED AS NECESSARY TO PREVENT TURBID DISCHARGES FROM FLOWING ONTO ADJACENT PROPERTIES OR ROADWAYS, OFF SITE STORMWATER CONVEYANCES OR RECEIVING WATERS, OR ON SITE WETLANDS AND SURFACE WATERS. BMPS SHALL BE DESIGNED, INSTALLED, AND MAINTAINED BY THE SITE OPERATOR TO ENSURE THAT OFF SITE SURFACE WATER QUALITY REMAINS CONSISTENT WITH STATE AND LOCAL REGULATIONS. [THE OPERATOR IS THE ENTITY THAT OWNS OR OPERATES THE CONSTRUCTION ACTIVITY AND HAS AUTHORITY TO CONTROL THOSE ACTIVITIES AT THE PROJECT NECESSARY TO ENSURE COMPLIANCE.]
2. THE OPERATOR SHALL ENSURE THAT ADJACENT PROPERTIES ARE NOT IMPACTED BY WIND EROSION, OR EMISSIONS OF UNCONFINED PARTICULATE MATTER IN ACCORDANCE WITH RULE 62-296.320(4)(C)1, F.A.C., BY TAKING APPROPRIATE MEASURES TO STABILIZE AFFECTED AREAS.
3. FUEL AND OTHER PETROLEUM PRODUCT SPILLS THAT ENTER STORMWATER DRAINS OR WATERBODIES, OR FUEL AND OTHER PETROLEUM PRODUCT SPILLS THAT ARE IN EXCESS OF 25 GALLONS SHALL BE CONTAINED, CLEANED UP, AND IMMEDIATELY REPORTED TO THE CITY OF VENICE. GROUND SURFACE SPILLS SHALL BE CLEANED UP AS SOON AS PRACTICAL.
4. IF PREVIOUSLY UNKNOWN RECOGNIZED ENVIRONMENTAL CONDITIONS (E.G. CONTAMINATED SOIL AND/OR GROUNDWATER, BURIED WASTES, ETC.) ARE DISCOVERED DURING DEVELOPMENT OF THE SITE, ALL ACTIVITY IN THE IMMEDIATE VICINITY SHALL CEASE, AND THE CITY OF VENICE SHALL BE CONTACTED.
5. NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM – STORMWATER:
   a. NPDES CONSTRUCTION GENERIC PERMIT COVERAGE SHALL BE OBTAINED AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION COMMENCEMENT IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES (AKA. CONSTRUCTION GENERIC PERMIT, OR CGP).
   b. A COPY OF THE CERTIFIED NPDES NOI, OR A COPY OF THE FDEP COVERAGE CONFIRMATION LETTER SHALL BE POSTED AT THE SITE IN ACCORDANCE WITH PART 2.6 OF THE GENERIC PERMIT.
   c. A COPY OF THE CERTIFIED NPDES NOI, OR A COPY OF THE FDEP COVERAGE CONFIRMATION LETTER SHALL BE PROVIDED TO THE CITY OF VENICE WITHIN 7 CALENDAR DAYS IN ACCORDANCE WITH PART 2.6 OF THE GENERIC PERMIT.
   d. THE SWPPP SHALL BE CERTIFIED IN ACCORDANCE WITH PART 4.6 OF THE GENERIC PERMIT, AND A COPY OF THE CERTIFIED DOCUMENT SHALL BE SUBMITTED TO THE CITY OF VENICE AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION..
   e. A COPY OF THE SWPPP, AND COPIES OF THE INSPECTION AND MAINTENANCE RECORDS SHALL BE MAINTAINED AT THE PROJECT SITE, AND SHALL BE READILY AVAILABLE TO CITY OR STATE INSPECTORS.
8. NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM – DEWATERING: IF NOT OTHERWISE COVERED AS OUTLINED UNDER PART 3.4 OF THE GENERIC PERMIT, THE DISCHARGE OF GROUNDWATER PRODUCED THROUGH DEWATERING, TO SURFACE WATERS, OR TO ANY PORTION OF THE MS4 WILL REQUIRE SEPARATE PERMITTING FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP). PERMIT(S) SHALL BE OBTAINED PRIOR TO THE COMMENCEMENT OF DEWATERING. ANALYTICAL RESULTS FROM PRE-DISCHARGE TESTING SHALL BE PROVIDED TO THE CITY OF VENICE.



VENICE AVENUE EAST

ALL ELEVATIONS SHOWN REFERENCE THE NAVD 88 VERTICAL DATUM. CONVERSION FACTOR TO NGVD IS + 1.10'

DATE	REVISION	BY

DMK ASSOCIATES ENGINEERS ■ SURVEYORS
421 Commercial Court, Suite C Venice, Florida 34292
Phone (941)412-1293, Fax (941)412-1043
Certificate of Authorization No. 3943

DATE 11/25/2019	CKD. BY	DATE
DRAWN DRA	TER	06/04/20
DESIGN DRA	TER	06/04/20
SCALE @ 22"x34"	DMK NO.	19-0127

MICHAEL ARANDA
THE GALLERIA SHOPS, LLC.
1222 SW 47th STREET SUITE 330
CAPE CORAL, FL. 33094

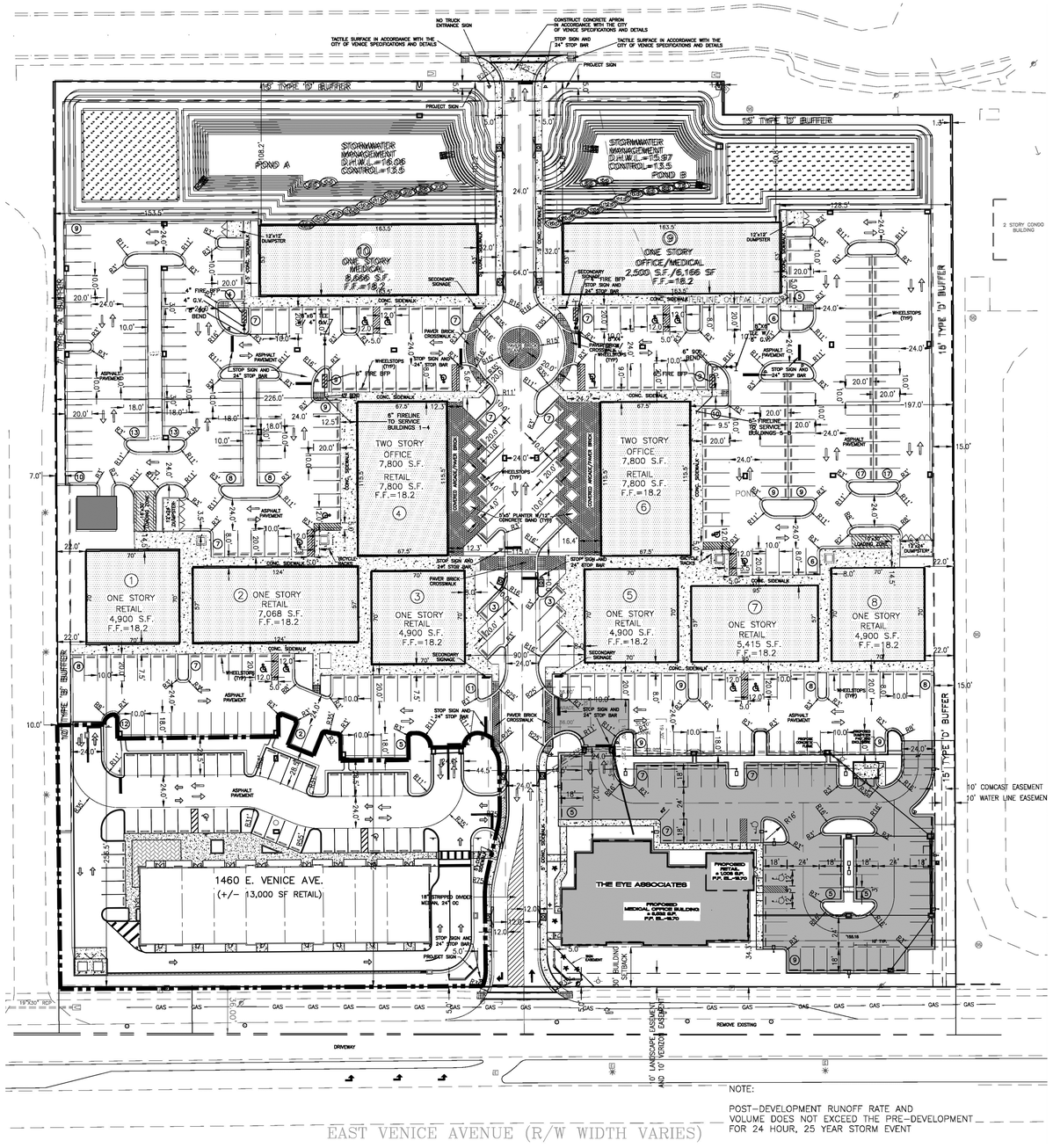
1460 E VENICE AVE

EXISTING CONDITIONS & DEMOLITION PLAN

ENGINEER OF RECORD
TIMOTHY E. ROANE, P.E.
STATE OF FLORIDA NO. 63113

SHEET No.
4

Drawing name: F:\Projects\2019\19-0127 1500 E. Venice Ave\dwg\19-0127_04 Existing-Demo Plan.dwg Tab: Existing Demo Date Printed: Thu, 04 Jun 2020 - 8:58am



NOTE:

POST-DEVELOPMENT RUNOFF RATE AND VOLUME DOES NOT EXCEED THE PRE-DEVELOPMENT FOR 24 HOUR, 25 YEAR STORM EVENT

LEGEND

- DENOTES CONCRETE WALKS/PATHS
- DENOTES TACTILE SURFACE
- (#) DENOTES NO. OF PARKING SPACES
- DENOTES HANDICAP PARKING
- TRAFFIC CIRCULATION (NOT FOR PAINTING)
- PAVEMENT MARKING (FOR PAINTING)
- DENOTES EXISTING SANITARY SEWER MANHOLE
- DENOTES EXISTING STORM DRAIN MANHOLE
- C.T. CURB TAPER PER FDOT.
- E.S. ELECTRICAL SERVICE

N W E S

FEET 25 0 50

PERMITTED MASTER STORMWATER MANAGEMENT SYSTEM OPERATED AND MAINTAINED BY GALLERIA ON VENICE AVENUE MASTER ASSOCIATION, INC.
121 TRIPLE DIAMOND BOULEVARD, SUITE 8, N. VENICE, FL 34275

VENICE ZONING DESIGNATIONS

PROJECT ZONING: PLANNED UNIT DEVELOPMENT (PUD)/VENETIAN GATEWAY DISTRICT (VG)

ADJACENT ZONING

NORTH: PLANNED UNIT DEVELOPMENT (PUD) AND RESIDENTIAL MULTI-FAMILY (RMF-2)
SOUTH: RIGHT-OF-WAY, E VENICE AVE.
EAST: RESIDENTIAL MULTI-FAMILY (RMF-3)/VG
WEST: OFFICE, PROFESSIONAL AND INSTITUTIONAL (OPI)/VG

SITE SUMMARY					
SITE AREA	±452,683.49 SF		±10.39 AC		
	APPROVED		PROPOSED		
	AREA (SF)	PERCENTAGE	AREA (SF)	TOTAL AREA (SF)	PERCENTAGE
BUILDING COVERAGE	74,561	16.5%	13,000	87,561	19.3%
ASPHALT/CONCRETE PAVEMENT	192,467	42.5%	26,262	218,729	48.3%
CONCRETE SIDEWALKS	35,678	7.9%	3,372	39,050	8.6%
TOTAL IMPERVIOUS	302,706	66.9%	42,634	345,340	76.3%
STORMWATER	39,764	8.8%	0	39,764	8.8%
LANDSCAPE AND OPEN SPACE	110,213	24.3%	13,483	67,579	14.9%
TOTAL PERVIOUS	149,977	33.1%	13,483	107,343	23.7%

*THE PROPOSED ASPHALT/CONCRETE PAVEMENT AREA ABOVE DOES NOT INCLUDE 4,315 SF OF EXISTING PAVEMENT AS IT HAS BEEN ACCOUNTED FOR IN THE APPROVED CALCULATIONS.

MINIMUM REQUIRED PARKING OVERALL SITE			
USE	RATIO	QTY	PARKING SPACES
RETAIL	1/300 SF	61,335 SF	205
OFFICE	1/200 SF	18,100 SF	91
MEDICAL	1/150 SF	23,364 SF	156
		TOTAL	452 (9 H/C)

*ADJUSTED AMOUNT LESS THAN 15% INTERNAL CAPTURE/PEDESTRIAN/BICYCLE TRAFFIC - 68 SPACES = 384 SPACES

PROPOSED PARKING			
USE	RATIO	QTY	PARKING SPACES
RETAIL	1/300 SF	12,644 SF	43 (2 H/C)
PARKING PROVIDED			
PREVIOUSLY APPROVED		367 (17 H/C)	
PROPOSED		43 (2 H/C)	
TOTAL PARKING SPACES		410 (19 H/C)	

NOTE: THIS SITE AND DEVELOPMENT PLAN AMENDMENT DOES NOT AUTHORIZE DEVELOPMENT OUTSIDE THE LIMITS OF DEVELOPMENT AS DEPICTED ON THE SITE DEVELOPMENT PLAN SHEET.

DATE	REVISION	BY

DMK ASSOCIATES ENGINEERS ■ SURVEYORS
421 Commercial Court, Suite C Venice, Florida 34292
Phone (941)412-1293, Fax (941)412-1043
Certificate of Authorization No. 3943

DATE 11/25/2019	CKD. BY	DATE
DRAWN DRA	TER	06/04/20
DESIGN DRA	TER	06/04/20
SCALE @ 22"x34"	DMK NO.	19-0127

MICHAEL ARANDA
THE GALLERIA SHOPS, LLC.
1222 SW 47th STREET SUITE 330
CAPE CORAL, FL. 33094

1460 E VENICE AVE
MASTER SITE PLAN

ENGINEER OF RECORD
TIMOTHY E. ROANE, P.E.
STATE OF FLORIDA NO. 63113

SHEET No.
5

Drawing name: F:\Projects\2019\19-0127 1500 E. Venice Ave\dwg\19-0127_05 Master Site Plan.dwg Tab: Site Development Plan Date Printed: Thu, 04 Jun 2020 - 8:58am

PROJECT SITE SUMMARY

PROJECT ZONING – PLANNING UNIT DEVELOPMENT (PUD)/ VENETIAN GATEWAY DISTRICT (VG)

PROJECT USES – RETAIL

DEVELOPMENT AREA 60,433 S.F. 1.38 AC.

IMPERVIOUS AREA

TYPE	PROPOSED	%
BUILDING COVERAGE	13,000 S.F.	21.5 %
ASPHALT/CONCRETE PAVEMENT	30,577 S.F.	50.9 %
CONCRETE SIDEWALKS	3,372 S.F.	5.6 %
TOTAL IMPERVIOUS	46,949 S.F.	77.9 %
PERVIOUS AREA		
LANDSCAPE AND OPEN SPACE	13,483 S.F.	22.3 %

CURVE NUMBER

98 X 46,593 SF (IMPERVIOUS) + 78 X 13,839 SF (PERVIOUS)
60,433 SF (TOTAL)

= 93.53

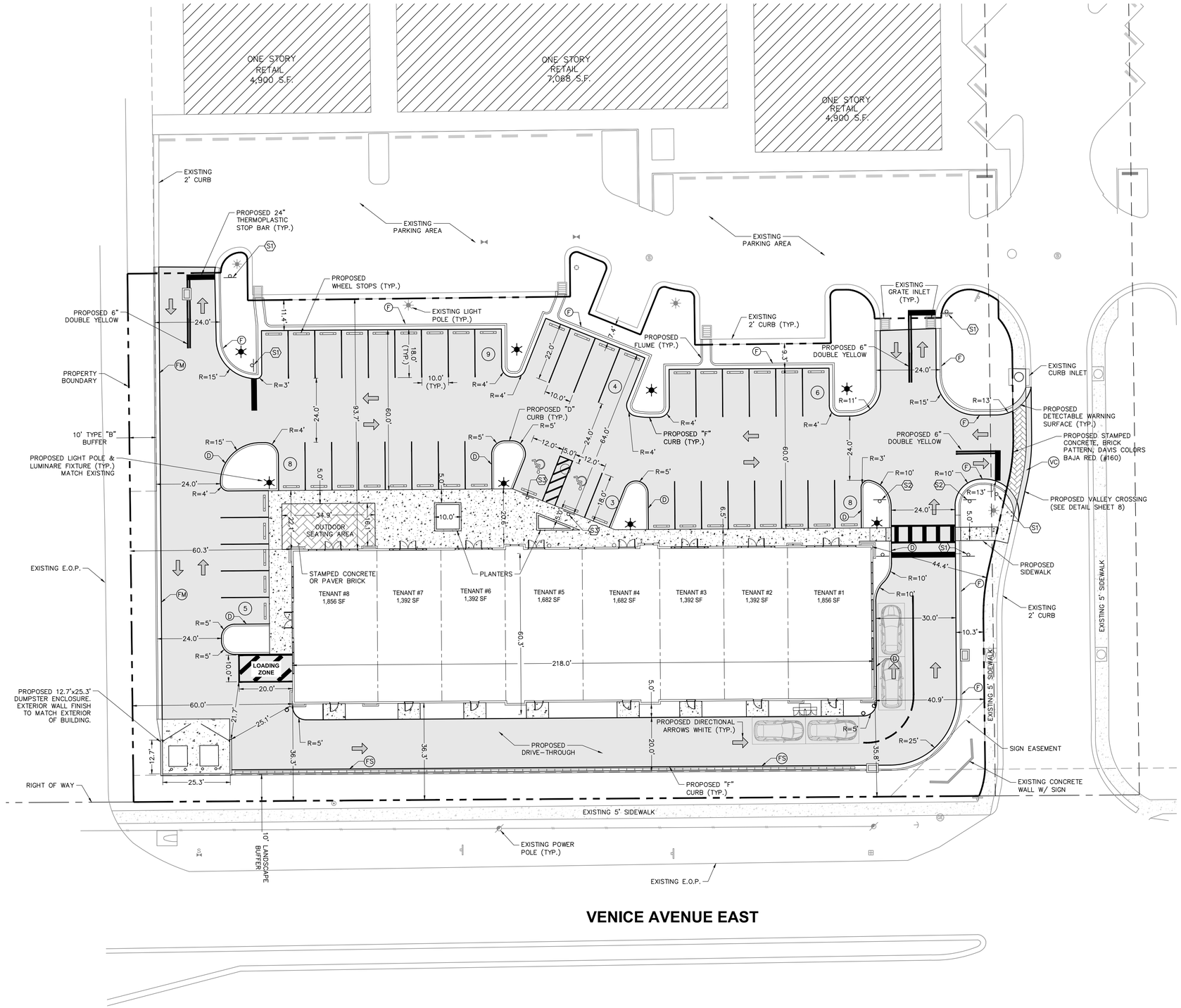
MINIMUM REQUIRED PARKING			
USE	RATIO	QTY	PARKING SPACES
RETAIL	1/300 SF	12,644 SF	43 (2 H/C)
PROPOSED PARKING			
USE	RATIO	QTY	PARKING SPACES
RETAIL	1/300 SF	12,644 SF	43 (2 H/C)

LOADING ZONE REQUIREMENTS

TOTAL SQUARE FOOTAGE – 12,644 SF
LOADING ZONES REQUIRED – 1
LOADING ZONES PROVIDED – 1

LEGEND:

- PROPOSED ASPHALT PAVEMENT
- EXISTING CONCRETE AREAS
- PROPOSED CONCRETE AREAS
- PROPOSED STAMPED CONCRETE OR PAVER BRICK
- (FS) "F" SLOT CURB
- (F) "F" CURB
- (FM) "F" MODIFIED CURB
- (D) "D" CURB
- (VC) 3' VALLEY CROSSING
- LIGHT POLE & LUMINARE



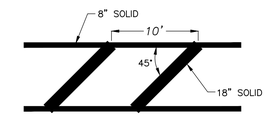
VENICE AVENUE EAST

SIGN LEGEND:

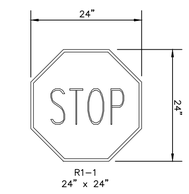
(S1) STOP — R1-1 30"x30"

(S2) DO NOT ENTER — R1-1 30"x30"

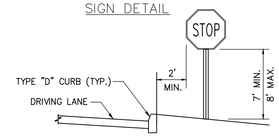
(S3) PARKING BY DISABLED PERMIT ONLY / $250 FINE — NOTE: FTP-25 HANDICAPPED PARKING SIGN SHALL BE INSTALLED 84" ABOVE GRADE MEASURED TO THE BOTTOM OF THE SIGN.



TYPICAL TRANSITION MARKING
N.T.S.



SIGN DETAIL



TYPICAL SIGN PLACEMENT

24" R1-1 STOP SIGN DETAIL
N.T.S.

DATE	REVISION	BY

DMK ASSOCIATES ENGINEERS ■ SURVEYORS
421 Commercial Court, Suite C Venice, Florida 34292
Phone (941)412-1293, Fax (941)412-1043
Certificate of Authorization No. 3943

DATE 11/25/2019	CKD. BY	DATE
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DESIGN DRA	TER	06/04/20
SCALE @ 22"x34"	DMK NO. 19-0127	

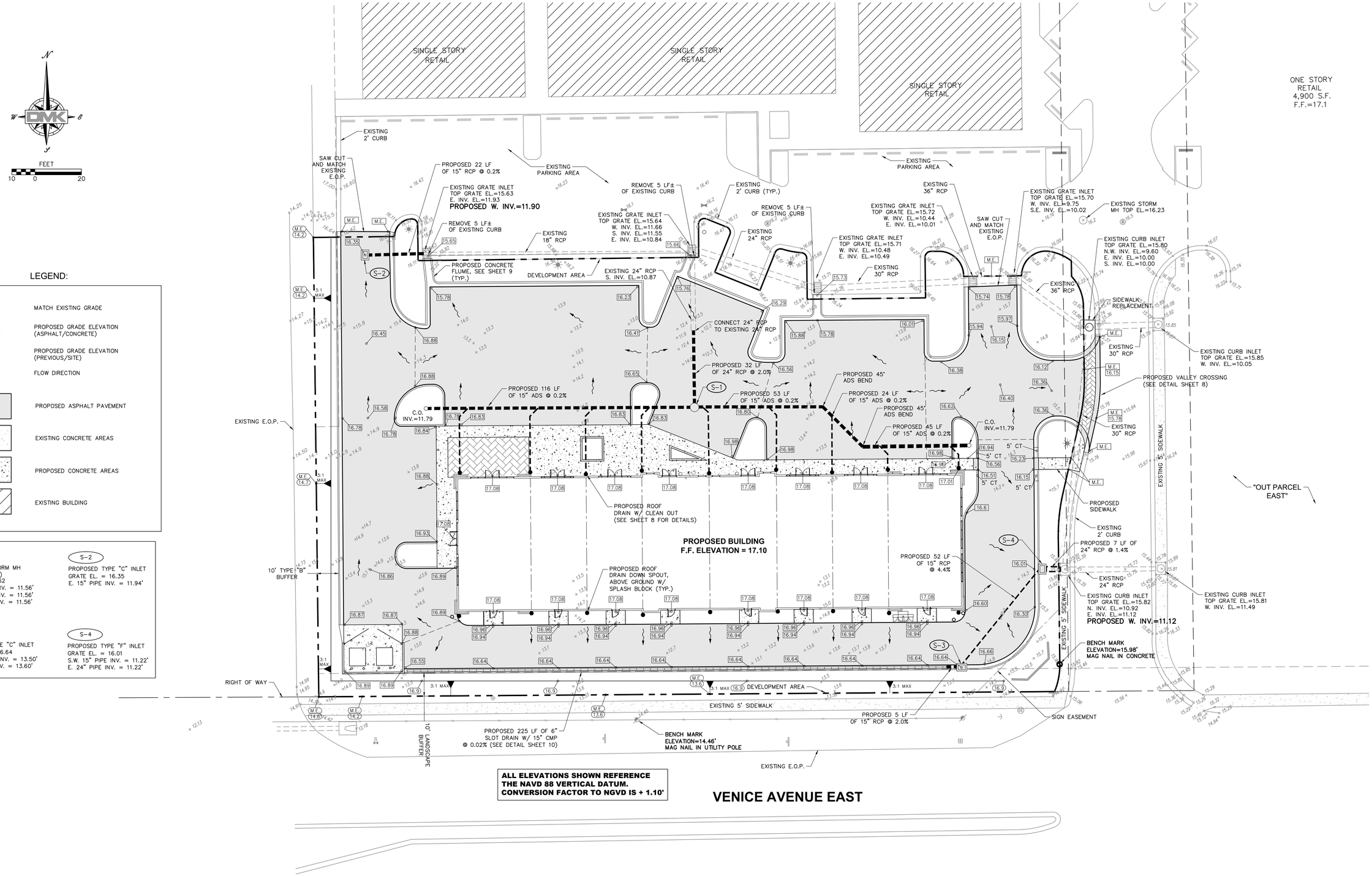
MICHAEL ARANDA
THE GALLERIA SHOPS, LLC.
1222 SW 47th STREET SUITE 330
CAPE CORAL, FL. 33094

1460 E VENICE AVE
SITE DEVELOPMENT PLAN

ENGINEER OF RECORD
TIMOTHY E. ROANE, P.E.
STATE OF FLORIDA NO. 63113

SHEET No.
6

Drawing name: F:\Projects\2019\19-0127 1500 E. Venice Ave\dwg\19-0127_06 Site Development Plan.dwg Tab: Site Development Plan Date Printed: Thu, 04 Jun 2020 – 8:58am



LEGEND:

M.E.	MATCH EXISTING GRADE
7.7	PROPOSED GRADE ELEVATION (ASPHALT/CONCRETE)
6.60	PROPOSED GRADE ELEVATION (PREVIOUS/SITE)
	FLOW DIRECTION
	PROPOSED ASPHALT PAVEMENT
	EXISTING CONCRETE AREAS
	PROPOSED CONCRETE AREAS
	EXISTING BUILDING

S-1
PROPOSED STORM MH
48" DIA. (TYP.)
RIM EL. = 16.62
N. 24" PIPE INV. = 11.56'
W. 15" PIPE INV. = 11.56'
E. 15" PIPE INV. = 11.56'

S-2
PROPOSED TYPE "C" INLET
GRATE EL. = 16.35
E. 15" PIPE INV. = 11.94'

S-3
PROPOSED TYPE "C" INLET
GRATE EL. = 16.64
N.E. 15" PIPE INV. = 13.50'
W. 15" PIPE INV. = 13.60'

S-4
PROPOSED TYPE "F" INLET
GRATE EL. = 16.01
S.W. 15" PIPE INV. = 11.22'
E. 24" PIPE INV. = 11.22'

ALL ELEVATIONS SHOWN REFERENCE THE NAVD 88 VERTICAL DATUM. CONVERSION FACTOR TO NGVD IS + 1.10'

DATE	REVISION	BY

DMK ASSOCIATES
ENGINEERS ■ SURVEYORS
421 Commercial Court, Suite C Venice, Florida 34292
Phone (941)412-1293, Fax (941)412-1043
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DESIGN DRA	TER	06/04/20
SCALE @ 22"x34"	DMK NO.	19-0127

MICHAEL ARANDA
THE GALLERIA SHOPS, LLC.
1222 SW 47th STREET SUITE 330
CAPE CORAL, FL. 33094

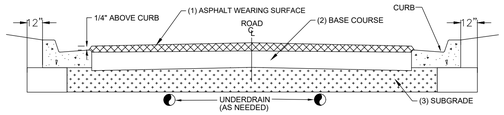
1460 E VENICE AVE

PAVING GRADING & DRAINAGE PLAN

ENGINEER OF RECORD
TIMOTHY E. ROANE, P.E.
STATE OF FLORIDA NO. 63113

SHEET No.
7

Drawing name: F:\Projects\2019\19-0127 1500 E. Venice Ave\dwg\19-0127_07 Paving Grading & Drainage Plan.dwg Tab: Paving Grading & Drainage Plan Date Printed: Thu, 04 Jun 2020 - 8:58am



ROADWAY SECTION DESIGN (MINIMUM THICKNESS)

STREET CLASSIFICATION	(1) ASPHALT SURFACE:	(2) BASE: B-12.5	CTB	CCA	(3) SUB-GRADE: TYPE B STAB.
RESIDENTIAL STREET (PRIVATE) & LIGHT DUTY PARKING	2" TYPE SP-9.5 (INSTALLED AS TWO 1" LIFTS)	4"	8"	8"	8" MIN 40 LBR
RESIDENTIAL STREET (PUBLIC)	2" TYPE SP-9.5 (INSTALLED AS TWO 1" LIFTS)	5"	10"	10"	12" MIN 40 LBR
INDUSTRIAL STREET (PUBLIC/PRIVATE)	2" TYPE SP-12.5 & 1" TYPE FC-9.5	5"	10"	10"	12" MIN 40 LBR
COLLECTOR / ARTERIAL STREET	3" TYPE SP-12.5 & 1" TYPE FC-9.5	5"	10"	10"	12" MIN 40 LBR

1.) ALL STREETS WITHIN THE CITY LIMITS SHALL MEET THE MINIMUM DESIGN STANDARDS AS ESTABLISHED IN THIS DETAIL.

2.) ALL INSTALLATION METHODS AND MATERIALS SHALL CONFORM WITH THE LATEST EDITION OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

3.) CRUSHED CONCRETE AGGREGATE (CCA) MUST HAVE AN LBR ≥150. SHELL IS NOT AN ACCEPTABLE BASE MATERIAL.

4.) CEMENT TREATED BASE:
   a.) THE MATERIAL TO BE USED AS THE FILLER AGGREGATE IN CTB MUST BE LBR TESTED PRIOR TO DESIGN FORMULATION (ADDING CEMENT). THIS MATERIAL MUST ACHIEVE AN LBR VALUE OF ≥ 100.
   b.) CTB DESIGN CRITERION SHOULD TARGET RANGE FROM 175 TO 275 PSI ON 7 DAY BREAK. TESTING MUST BE PROVIDED TO VERIFY THE COMPRESSIVE STRENGTH OF THE MIX.

5.) ALL GRANULAR COURSES OF ROAD CONSTRUCTION MUST BE COMPACTED TO 98% OF ITS OPTIMUM DENSITY AS PER T-180 (AASHTO). CTB SHALL BE COMPACTED TO 98% OF ITS LAB FORMULATION DENSITY (AASHTO T-99).

6.) ALL MINERAL MATERIALS USED IN CONSTRUCTION OF ROADWAYS MUST MEET THE FOLLOWING CRITERIA:
   a.) FINES (PASSING # 200 SIEVE) MUST BE LIMITED TO ≤ 12%, ORGANICS LIMITED TO ≤ 5%, NO DELETERIOUS MATERIALS.

7.) SIGNAGE AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH LATEST EDITION OF THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD MANUAL).

8.) ALL CITY STREET SIGNS WILL BE BLUE BACKGROUND WITH 6" WHITE LETTERS AND CONSTRUCTED WITH HIGH INTENSITY REFLECTORIZED MATERIAL. ALL STREET SIGNS SHALL BE 9 INCHES WIDE AND APPROVED BY THE DIRECTOR OF PUBLIC WORKS PRIOR TO INSTALLATION.

9.) ALL CURB PADS SHALL MEET THE SAME STRUCTURAL AND COMPACTION STANDARDS AS ROAD SUB GRADE. THESE PADS WILL EXTEND TO AT LEAST 12" BEYOND THE CURB.

10.) UNDERDRAINS OR SIDEDRAINS MAY BE INCLUDED WHEN THE GROUND WATER LEVELS MAY AFFECT THE STRUCTURAL INTEGRITY OF THE ROAD. THIS DESIGN SHALL BE THE RESPONSIBILITY OF ENGINEER OF RECORD.

11.) ANY PROPOSED TRAFFIC CALMING DEVICES MUST BE APPROVED BY THE CITY ENGINEER & FIRE CHIEF.

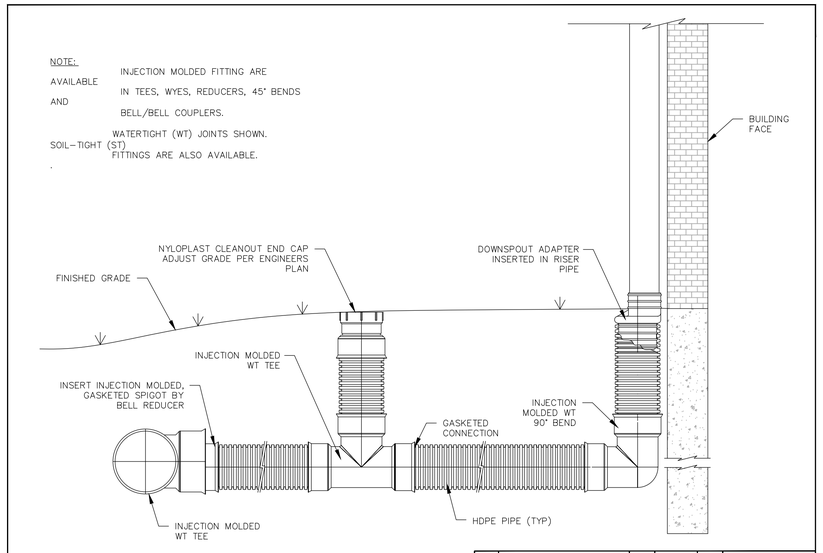
12.) ASPHALT COURSES AND CONCRETE SHALL NOT BE PLACED WHILE RAIN IS FALLING, OR WHEN THERE IS STANDING WATER ON THE SURFACE TO BE COVERED.

13.) TACK COAT SHALL BE APPLIED BETWEEN ALL ASPHALT LAYERS.

TYPICAL ROADWAY SECTION

N.T.S.

CITY OF VENICE ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	ENGINEERING	DATE MAY 2020
	TYPICAL ROADWAY SECTION	SHEET NO. ENG-3



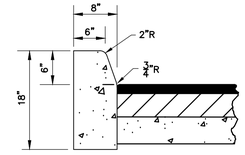
↑ 2007 ADS, INC.

REV.	DESCRIPTION	BY	MM/DD/YY	CHK'D
1	UPDATED DRAWING	TJR	01/11/07	CKS

NOTE: ALL DIMENSIONS ARE ± 1/2 FOOT.

ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT, NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

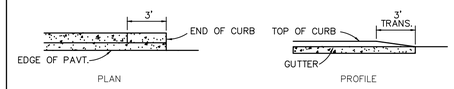
DIA. DET/RET SYSTEM	ADS 4640 TRUEMAN BLVD HILLIARD, OHIO 43026 ADVANCED DRAINAGE SYSTEMS, INC.	DRN KSK
ROOF DRAIN W/TEE CLEANOUT		DATE 03.19.04
		SCALE NTS
DRAWING NUMBER: STD-1002		SHEET 1 OF 1



NOTES:
1. CONCRETE TO BE F.D.O.T. CLASS I OR EQUAL. (2,500 PSI MINIMUM STRENGTH).
2. CONSTRUCTION TO BE IN ACCORDANCE WITH F.D.O.T. SPECIFICATION SECTION 520.

TYPE "D" CURB DETAIL

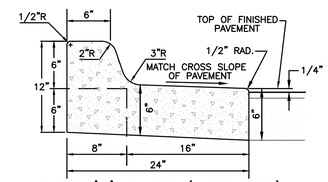
N.T.S.



STRAIGHT END

CURB & GUTTER ENDING DETAIL

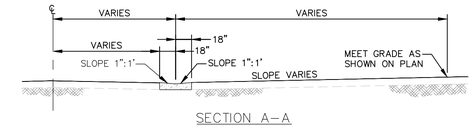
N.T.S.



TYPE 'F' CURB (MODIFIED)

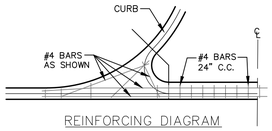
N.T.S.

NOTES:
1. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI IN 28 DAYS UNLESS NOTED OTHERWISE.
2. AN EXPANSION JOINT WILL BE PLACED AT THE END OF ALL RETURNS AT INTERVALS NOT TO EXCEED 50' WITH THE CONTRACTION JOINTS AT 10' INTERVALS BETWEEN.
3. EXPANSION JOINTS SHALL BE CONSTRUCTED WITH 1/2" BITUMINOUS IMPREGNATED EXPANSION JOINT MAT'L.

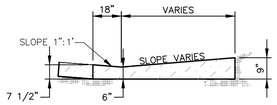


SECTION A–A

NOTE:
REINFORCING BARS TO BE PLACED A MINIMUM OF 2" FROM BOTTOM AND 3" FROM SIDES OF CURB & GUTTER. CONCRETE 3000 P.S.I., "A" GRADE.

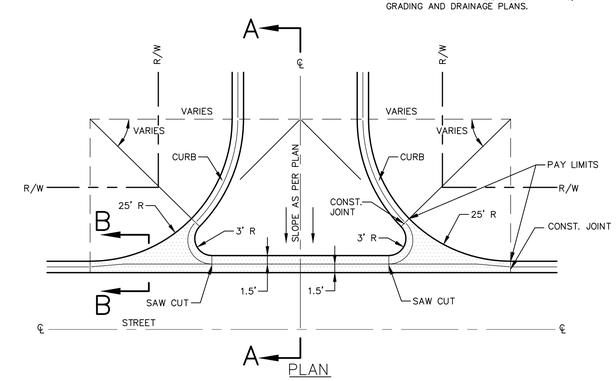


REINFORCING DIAGRAM



SECTION B–B

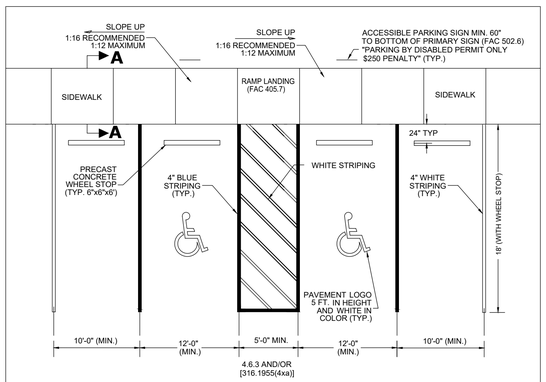
NOTE:
DIRECTION OF FLOW REQUIRED BY PAVING, GRADING AND DRAINAGE PLANS.

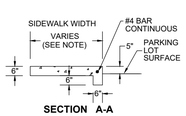


PLAN

VALLEY CROSSING DETAIL

N.T.S.





SECTION A-A

1.) IF AN ADJACENT SIDEWALK IS A MINIMUM OF SEVEN (7) FEET IN WIDTH AND PROVIDES A 5" INCH CURB, THE SIDEWALK MAY SERVE AS THE WHEEL STOP AND THE STANDARD PARKING SPACE MAY BE 16' DEEP.

2.) IF AN ADJACENT LANDSCAPE AREA IS A MINIMUM OF 3.5' PER ABUTTING PARKING SPACE AND PROTECTED BY CONCRETE CURBING OR WHEEL STOP, 2 FEET OF THE REQUIRED DEPTH MAY ENCROACH INTO THE LANDSCAPE AREA. IF THE REQUIRED DEPTH ENCROACHES INTO THE LANDSCAPE AREA, THE WHEEL STOP MUST BE PLACED AT THE EDGE OF PAVEMENT.

3.) ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL BE CONSTRUCTED WITH SURFACE SLOPES NOT TO EXCEED 1:50 (2%) IN ALL DIRECTIONS AND THE GROUND SURFACE SHALL BE STABLE, FIRM AND SLIP RESISTANT.

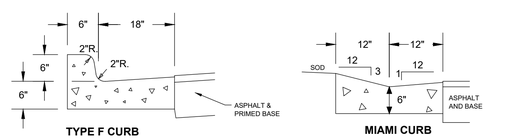
4.) NO COLORS OTHER THAN WHITE AND BLUE SHALL BE USED FOR PARKING SPACE PAVEMENT MARKINGS.

5.) ALL DIMENSIONS SHOWN ARE TO THE CENTERLINE OF PAVEMENT MARKINGS.

ACCESSIBLE & TYPICAL PARKING SPACE DETAIL

N.T.S.

CITY OF VENICE ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	ENGINEERING	DATE MAY 2020
	ACCESSIBLE & TYPICAL PARKING	SHEET NO. ENG-5



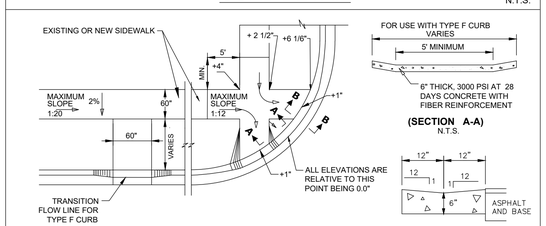
TYPE F CURB

MIAMI CURB

1.) ALL STREETS SHALL HAVE A TWO-FOOT WIDE CONCRETE (3000 PSI AT 28 DAYS WITH FIBER REINFORCEMENT) CURB AND GUTTER, AND MEET OR EXCEED FDOT SPECIFICATIONS UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

CURB DETAIL

N.T.S.



(SECTION A-A)
N.T.S.

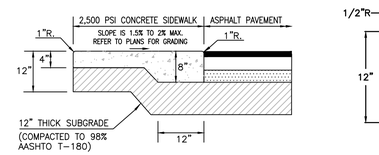
(SECTION B-B)
N.T.S.

1.) ALL CONCRETE RAMPS SHALL BE 4" THICK, INCREASING TO 6" THICK WITHIN 48" OF THE CURB
2.) ALL CONNECTIONS TO AN EXISTING SIDEWALK SHALL BE AT AN EXPANSION OR CONTRACTION JOINT
3.) THE MAXIMUM RAMP SLOPE SHALL BE 1:12, FOR A VERTICAL DISTANCE OF NOT MORE THAN 6 INCHES.
4.) THE MAXIMUM RUNNING SIDEWALK SLOPE SHALL BE 1:20, AND MAXIMUM CROSS SLOPE SHALL BE 2%.
5.) ALL SIDEWALK RAMPS AND STREET CONNECTIONS WITHIN THE PUBLIC ROW SHALL HAVE A TACTILE SURFACE.
6.) TACTILE SURFACES SHALL MEET THE MOST CURRENT AMERICANS WITH DISABILITIES ACT STANDARDS, BE FDOT COMPLIANT AND SHALL BE BRICK RED IN COLOR.
7.) ALL MATERIALS & METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH LATEST EDITION OF THE FDOT, "STANDARDS FOR ROAD & BRIDGE CONSTRUCTION". IN ADDITION, CONCRETE SHALL BE 3000 PSI AT 28 DAYS WITH A MAXIMUM 4" SLUMP AND FIBER REINFORCEMENT.

SIDEWALK RAMP DETAIL

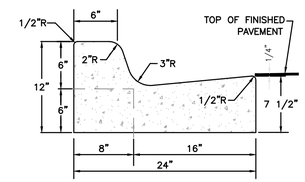
N.T.S.

CITY OF VENICE ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	ENGINEERING	DATE MAY 2020
	SIDEWALK RAMPS & CURBING	SHEET NO. ENG-1



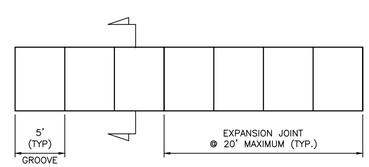
CONCRETE SIDEWALK TO ASPHALT SECTION (FLUSH CONNECTION)

N.T.S.

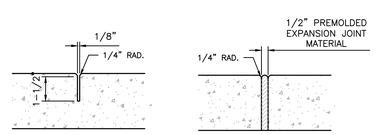


TYPE 'F' CURB

N.T.S.



PLAN VIEW

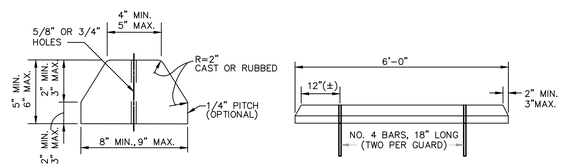


GROOVE

EXPANSION JOINT

SIDEWALK DETAIL

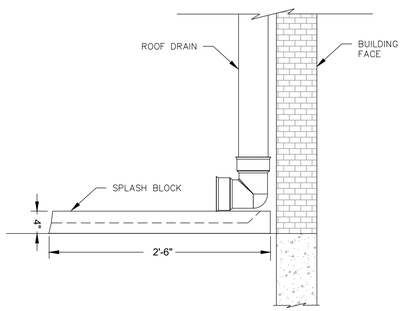
N.T.S.



NOTE: CONCRETE TO BE 2,500 PSI STRENGTH MINIMUM.

WHEEL STOP DETAIL

N.T.S.



ROOF DRAIN WITH SPLASH BLOCK

N.T.S.

DATE	REVISION	BY

DMK ASSOCIATES ENGINEERS ■ SURVEYORS
421 Commercial Court, Suite C Venice, Florida 34292
Phone (941)412-1293, Fax (941)412-1043
Certificate of Authorization No. 3943

DATE 11/25/2019	CKD. BY	DATE
DRAWN DRA	TER	06/04/20
DESIGN DRA	TER	06/04/20
SCALE @ 22"x34"	DMK NO. 19-0127	

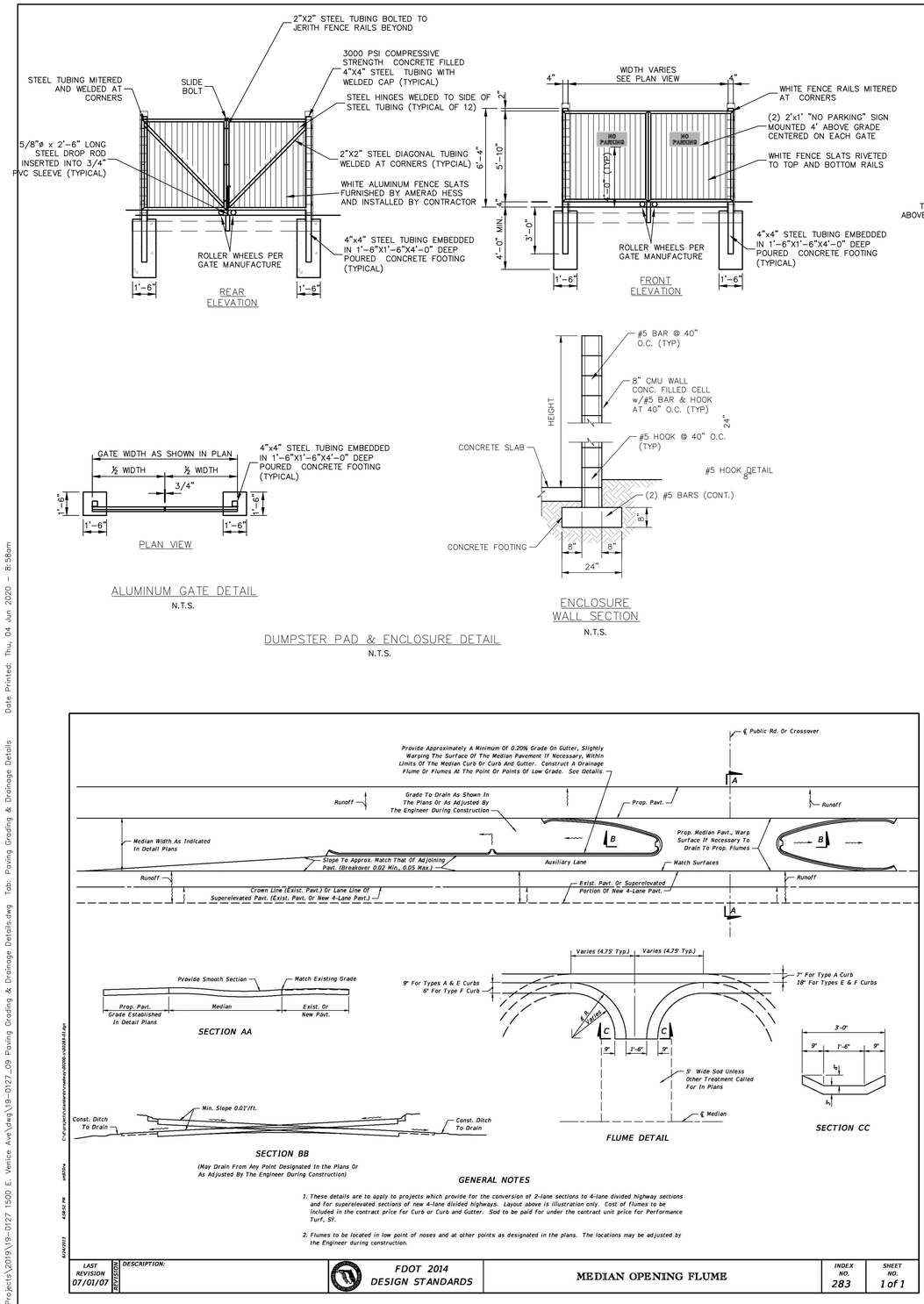
MICHAEL ARANDA
THE GALLERIA SHOPS, LLC.
1222 SW 47th STREET SUITE 330
CAPE CORAL, FL. 33094

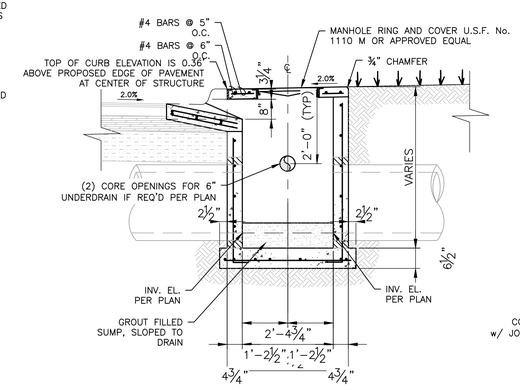
1460 E VENICE AVE
PAVING GRADING & DRAINAGE DETAILS

ENGINEER OF RECORD
TIMOTHY E. ROANE, P.E.
STATE OF FLORIDA NO. 63113

SHEET No.
8

Drawing name: F:\Projects\2019\19-0127 1500 E. Venice Ave\Dwg\19-0127_08 Paving Grading & Drainage Details.dwg Tab: Paving Grading & Drainage Details Date Printed: Thu, 04 Jun 2020 – 8:58am

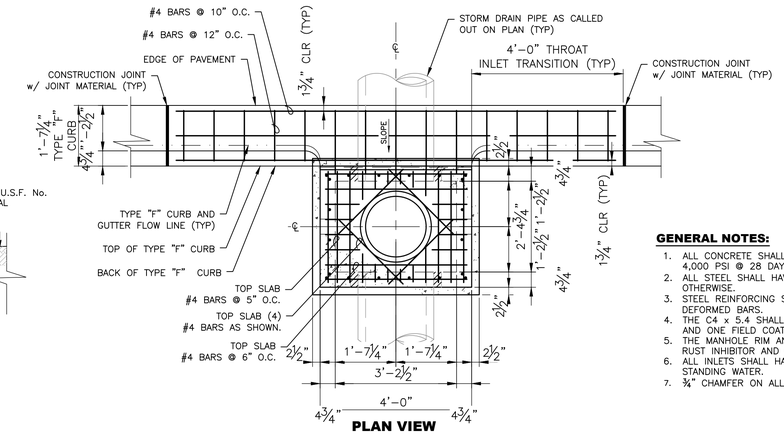




SIDE SECTION

TYPE "F" CURB OPEN THROAT INLET DETAIL

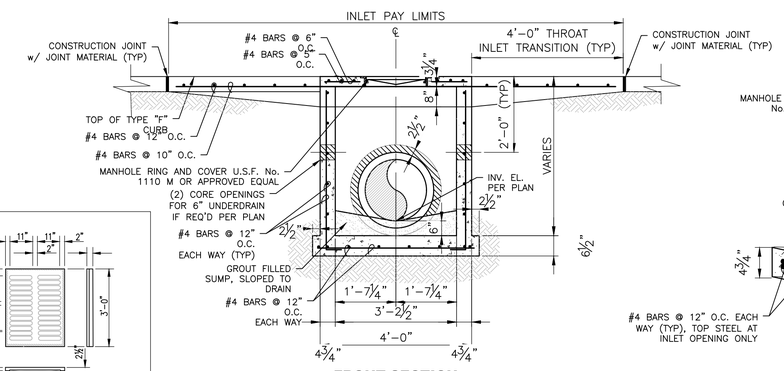
SCALE: ½"=1'-0"



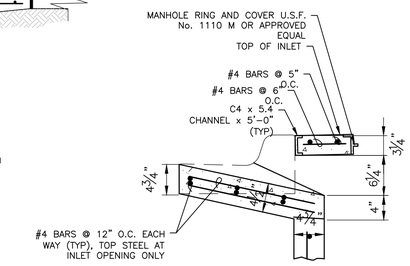
PLAN VIEW

GENERAL NOTES:

1. ALL CONCRETE SHALL HAVE A COMPRESSION STRENGTH OF AT LEAST 4,000 PSI @ 28 DAYS.
2. ALL STEEL SHALL HAVE A MINIMUM 2½" CLEARANCE UNLESS NOTED OTHERWISE.
3. STEEL REINFORCING SHALL MEET ASTM SPECIFICATIONS (A-615), DEFORMED BARS.
4. THE C4 x 5.4 SHALL HAVE A ONE SHOP COAT OF RUST INHIBITOR AND ONE FIELD COAT OF AN APPROVED PAINT.
5. THE MANHOLE RIM AND COVER SHALL HAVE A ONE SHOP COAT OF RUST INHIBITOR AND ONE FIELD COAT OF AN APPROVED PAINT.
6. ALL INLETS SHALL HAVE A FIELD POURED INVERTS TO ELIMINATE STANDING WATER.
7. ¾" CHAMFER ON ALL EXPOSED EDGES.

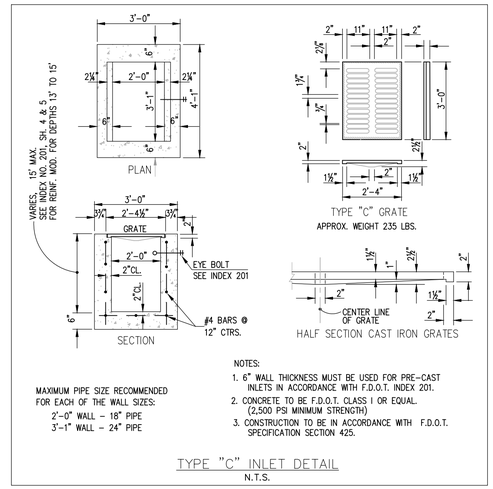


FRONT SECTION



TYPE "F" THROAT DETAIL

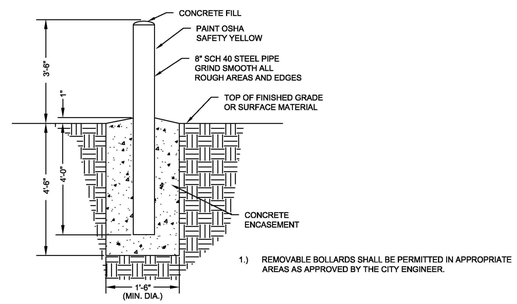
SCALE: 1"=1'-0"



MAXIMUM PIPE SIZE RECOMMENDED FOR EACH OF THE WALL SIZES:
2'-0" WALL – 18" PIPE
3'-1" WALL – 24" PIPE

NOTES:
1. 6" WALL THICKNESS MUST BE USED FOR PRE-CAST INLETS IN ACCORDANCE WITH F.D.O.T. INDEX 201.
2. CONCRETE TO BE F.D.O.T. CLASS I OR EQUAL. (2,500 PSI MINIMUM STRENGTH)
3. CONSTRUCTION TO BE IN ACCORDANCE WITH F.D.O.T. SPECIFICATION SECTION 425.

TYPE "C" INLET DETAIL
N.T.S.



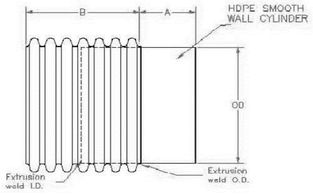
1.) REMOVABLE BOLLARDS SHALL BE PERMITTED IN APPROPRIATE AREAS AS APPROVED BY THE CITY ENGINEER.

BOLLARD DETAIL

N.T.S.

DUAL WALL ADAPTER FITTING

PART #	PIPE SIZE	A	B	OD
1221AN	12 in (300 mm)	6.0 in (152 mm)	11.5 in (293 mm)	12.1 in (306 mm)
1521AN	15 in (375 mm)	6.0 in (152 mm)	13.0 in (329 mm)	15.0 in (381 mm)
1821AN	18 in (450 mm)	6.0 in (152 mm)	13.4 in (340 mm)	18.0 in (457 mm)
2421AN	24 in (600 mm)	8.0 in (203 mm)	15.8 in (400 mm)	24.0 in (610 mm)
3021AN	30 in (750 mm)	10.0 in (254 mm)	20.6 in (523 mm)	30.0 in (762 mm)
3621AN	36 in (900 mm)	10.0 in (254 mm)	25.7 in (653 mm)	36.0 in (914 mm)
4221AN	42 in (1050 mm)	10.0 in (254 mm)	26.0 in (659 mm)	41.3 in (1048 mm)
4821AN	48 in (1200 mm)	10.0 in (254 mm)	26.3 in (667 mm)	47.6 in (1209 mm)
6021AN	60 in (1500 mm)	10.0 in (254 mm)	30.0 in (762 mm)	59.5 in (1511 mm)



NOTE: ALL DIMENSIONS ARE NOMINAL

ADS ADVANCED DRAINAGE SYSTEMS, INC.

DRAWING #:	5000	
DRAWN BY:	JCB	05.20.07
APPROVED BY:	JCB	06.28.07
REVISIONS:	NJP	06.20.07

DATE	REVISION	BY

DMK ASSOCIATES ENGINEERS ■ SURVEYORS
421 Commercial Court, Suite C Venice, Florida 34292
Phone (941)412-1293, Fax (941)412-1043
Certificate of Authorization No. 3943

DATE 11/25/2019	CKD. BY	DATE
DRAWN DRA	TER	06/04/20
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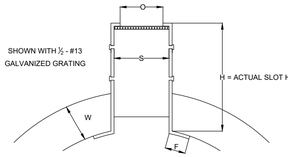
PAVING GRADING & DRAINAGE DETAILS

ENGINEER OF RECORD
TIMOTHY E. ROANE, P.E.
STATE OF FLORIDA NO. 63113

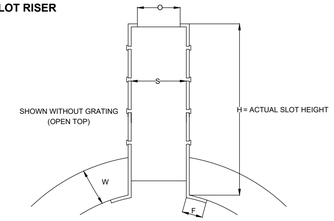
SHEET No.
9

Drawing name: F:\Projects\2019\19-0127 1500 E. Venice Ave\Dwg\19-0127_09 Paving Grading & Drainage Details.dwg Tab: Paving Grading & Drainage Details Date Printed: Thu, 04 Jun 2020 – 8:58am

DURASLOT® STANDARD 2.5" & 6" SLOT RISER
4" - 36" DIAMETER



4" - 12" PIPE WITH 2.5" SLOT RISER



4" - 36" PIPE WITH 6" SLOT RISER

PIPE DIAM.	H	W	F	O	S	PRODUCT # (GRATED)	PRODUCT # (OPEN TOP)
4" (100mm)	2.75" (70mm)	0.34" (9mm)	0.5" (13mm)	1.25" (32mm)	1.75" (44mm)	0420DS	0420DSOT
6" (150mm)	3.0" (76mm)	0.5" (13mm)	0.75" (19mm)	1.75" (44mm)	2.25" (57mm)	0620DS	0620DSOT
8" (200mm)	3.0" (76mm)	0.625" (16mm)	0.75" (19mm)	1.75" (44mm)	2.25" (57mm)	0820DS	0820DSOT
10" (250mm)	3.0" (76mm)	0.75" (19mm)	0.75" (19mm)	1.75" (44mm)	2.25" (57mm)	1020DS	1020DSOT
12" (300mm)	3.5" (89mm)	1.125" (29mm)	0.75" (19mm)	1.75" (44mm)	2.25" (57mm)	1220DS	1220DSOT

PIPE DIAM.	H	W	F	O	S	PRODUCT # (GRATED)	PRODUCT # (OPEN TOP)
4" (100mm)	6.25"	0.34"	0.5"	1.25"	1.75"	0460DS	0460DSOT
6" (150mm)	6.5" (165mm)	0.5" (13mm)	0.75" (19mm)	1.75" (44mm)	2.25" (57mm)	0660DS	0660DSOT
8" (200mm)	6.5" (165mm)	0.625" (16mm)	0.75" (19mm)	1.75" (44mm)	2.25" (57mm)	0860DS	0860DSOT
10" (250mm)	6.5" (165mm)	0.75" (19mm)	0.75" (19mm)	1.75" (44mm)	2.25" (57mm)	1060DS	1060DSOT
12" (300mm)	7.0" (178mm)	1.125" (29mm)	0.75" (19mm)	1.75" (44mm)	2.25" (57mm)	1260DS	1260DSOT
15" (375mm)	7.0" (178mm)	1.25" (32mm)	0.75" (19mm)	1.75" (44mm)	2.25" (57mm)	1560DS	1560DSOT
18" (450mm)	7.0" (178mm)	1.5" 38mm)	0.75" (19mm)	1.75" (44mm)	2.25" (57mm)	1860DS	1860DSOT
24" (600mm)	7.25" (184mm)	1.875" (48mm)	1.0" (25mm)	1.75" (44mm)	2.25" (57mm)	2460DS	2460DSOT
30" (750mm)	8.25" (210mm)	2.55" (65mm)	1" (25mm)	1.75" (45mm)	2.25" (57mm)	3060DS	3060DSOT
36" (900mm)	8.25" (210mm)	2.85" (72mm)	1" (25mm)	1.75" (45mm)	2.25" (57mm)	3660DS	3660DSOT

NOTE: DIMENSION FROM GRADE TO PIPE INVERT:
H (ACTUAL SLOT HEIGHT) + PIPE DIAMETER + RECESS (½"-½")

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REV.	DESCRIPTION	BY	MM/DD/YY	CHK'D

ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT. NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEERS RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

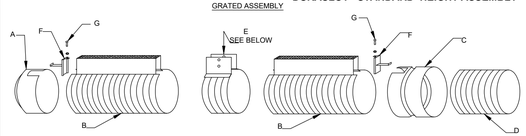
DRAWING NUMBER:

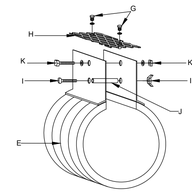
ADS — ADVANCED DRAINAGE SYSTEMS, INC. — 4640 TRUEMAN BLVD HILLIARD, OHIO 43026

DRAWN BY:	CWS
DATE:	2/1/2019
CHK'D:	KAK
SCALE:	NTS
SHEET:	1 OF 1

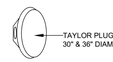
DURASLOT® STANDARD HEIGHT ASSEMBLY

GRATED ASSEMBLY



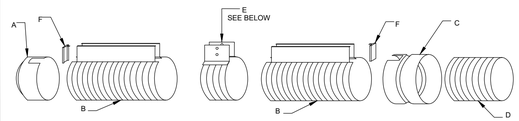


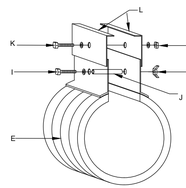
A. DURASLOT END CAP OR TAYLOR PLUG FOR 30" & 36" PIPE
B. DURASLOT PIPE
C. DURASLOT ADAPTER
D. N-12 PIPE
E. DURASLOT COUPLER BAND
F. DURASLOT GRATE ANCHOR
G. ½" SPHS X 1" LONG W/ WASHER
H. DURASLOT GRATE CONNECTOR
I. ⅝" HEX HEAD SCREW X 3½" LONG W/ WASHER & ⅝" WINGNUT
J. PLASTIC SLEEVE SPACER (GOES ON I. - NOT USED W/ 4" DIAM.)
K. HEX HEAD ASSEMBLY:
⅝" HEX HEAD SCREW X 3½" LONG
W/ (2) WASHERS AND ⅝" HEX NUT



NOTES:
1. EACH CAP (A) & ADAPTER (C) COMES WITH AN ANCHOR (F)
2. EACH COUPLER BAND (E) COMES WITH HARDWARE - I,J,K, & L
3. (K) NOT USED W/ 4" DIAM. W/ 2.5" SLOT RISER

OPEN TOP ASSEMBLY





A. DURASLOT END CAP OR TAYLOR PLUG FOR 30" & 36" PIPE
B. DURASLOT ADAPTER
C. N-12 PIPE
D. DURASLOT COUPLER BAND
E. DURASLOT GRATE ANCHOR
I. HEX HEAD ASSEMBLY
⅝" HEX HEAD SCREW X 3½" LONG
W/ WASHER & ⅝" WINGNUT
J. PLASTIC SLEEVE SPACER (GOES ON I. - NOT USED W/ 4" DIAM.)
K. HEX HEAD ASSEMBLY:
⅝" HEX HEAD SCREW X 3½" LONG
W/ (2) WASHERS AND ⅝" HEX NUT
L. DURASLOT BAND FLANGES

NOTES:
1. EACH CAP (A) & ADAPTER (C) COMES WITH A CAP (F)
2. EACH COUPLER BAND (E) COMES WITH HARDWARE (I,J,K, & L)

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REV.	DESCRIPTION	BY	MM/DD/YY	CHK'D

ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT. NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEERS RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

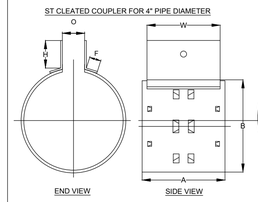
DRAWING NUMBER: STD-1407

ADS — ADVANCED DRAINAGE SYSTEMS, INC. — 4640 TRUEMAN BLVD HILLIARD, OHIO 43026

DRAWN BY:	CWS
DATE:	2/1/2019
CHK'D:	KAK
SCALE:	NTS
SHEET:	1 OF 1

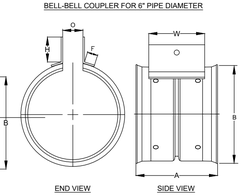
DURASLOT® STANDARD HEIGHT COUPLERS
4" - 36" DIAMETER

ST CLEATED COUPLER FOR 4" PIPE DIAMETER



END VIEW SIDE VIEW

BELL-BELL COUPLER FOR 6" PIPE DIAMETER

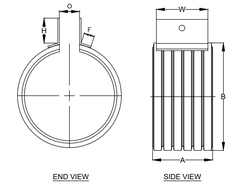


END VIEW SIDE VIEW

2.5" SLOT RISER COUPLER BAND DIMENSIONS

PIPE DIAM.	H	O	F	W	A	B	PRODUCT #
4" (100mm)	2" (50mm)	1.875" (48mm)	0.75" (19mm)	3.75" (95mm)	4" (100mm)	4.75" (120mm)	0421DS
6" (150mm)	2" (50mm)	2.375" (60mm)	1" (25mm)	5" (127mm)	7.25" (184mm)	7.625" (194mm)	0621DS
8" (200mm)	2" (50mm)	2.375" (60mm)	1" (25mm)	5" (127mm)	6" (152mm)	10" (254mm)	0821DS
10" (250mm)	2" (50mm)	2.375" (60mm)	1" (25mm)	5" (127mm)	5.5" (140mm)	12.5" (318mm)	1021DS
12" (300mm)	2" (50mm)	2.375" (60mm)	1" (25mm)	8" (203mm)	7.75" (197mm)	******	1221DS

SPLIT COUPLER FOR 8" - 36" PIPE DIAMETER



END VIEW SIDE VIEW

6" SLOT RISER COUPLER BAND DIMENSIONS

PIPE DIAM.	H	O	F	W	A	B	PRODUCT #
4" (100mm)	5.5" (50mm)	1.875" (48mm)	0.75" (19mm)	3.75" (95mm)	4" (100mm)	4.75" (120mm)	0426DS
6" (150mm)	5.5" (50mm)	2.375" (60mm)	1" (25mm)	5" (127mm)	7.25" (184mm)	7.625" (194mm)	0626DS
8" (200mm)	5.5" (50mm)	2.375" (60mm)	1" (25mm)	5" (127mm)	6" (152mm)	10" (254mm)	0826DS
10" (250mm)	5.5" (50mm)	2.375" (60mm)	1" (25mm)	5" (127mm)	5.5" (140mm)	12.5" (318mm)	1026DS
12" (300mm)	5.5" (50mm)	2.375" (60mm)	1" (25mm)	8" (203mm)	7.75" (197mm)	******	1226DS
15" (375mm)	5.5" (50mm)	2.375" (60mm)	1" (25mm)	9" (229mm)	10.5 (267mm)	******	1526DS
18" (450mm)	5" (127mm)	2.375" (60mm)	1" (25mm)	9" (229mm)	10.5 (267mm)	******	1826DS
24" (600mm)	5" (127mm)	2.375" (60mm)	1" (25mm)	10" (254mm)	12.63" (321mm)	******	2426DS
30" (750mm)	5" (127mm)	2.375" (60mm)	1" (25mm)	10" (254mm)	16.5" (419mm)	******	3026DS
36" (900mm)	5" (127mm)	2.375" (60mm)	1" (25mm)	10" (254mm)	20.8" (528mm)	******	3626DS

NOTES:
ALL FITTINGS DIMENSIONS ARE FOR REFERENCE ONLY

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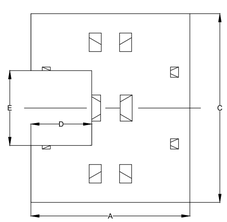
ADS — ADVANCED DRAINAGE SYSTEMS, INC.

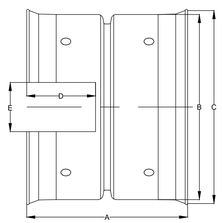
DRAWING #:	STD-1405
DRAWN BY:	CWS
APPROVED BY:	KAK
REVISIONS:	
SCALE:	NTS

DURASLOT® ADAPTERS
4" - 36" DIAMETER

ST CLEATED INTERNAL ADAPTER FOR 4" PIPE DIAMETER



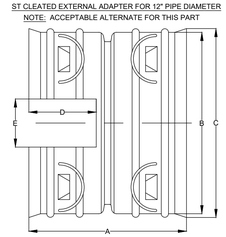
BELL-BELL ADAPTER FOR 6-10" PIPE DIAMETER



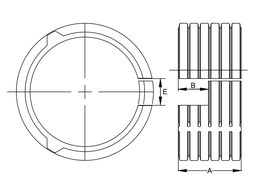
STANDARD & VARIABLE SLOT RISER ADAPTER DIMENSIONS

PIPE DIAM.	A	B	C	D	E	PRODUCT #
4" (100mm)	4" (100mm)	NA	4.75" (120mm)	1.25" (32mm)	2" (50mm)	0462DS
6" (150mm)	7.25" (184mm)	6.95" (177mm)	7.63" (194mm)	3" (76mm)	2.5" (64mm)	0662DS
8" (200mm)	8.25" (210mm)	9.17" (233mm)	10.13" (257mm)	3.5" (89mm)	2.5" (64mm)	0862DS
10" (250mm)	9.25 (235mm)	11.56" (294mm)	12.13" (308mm)	4" (100mm)	2.5" (64mm)	1062DS
12" (300mm)	14" (356mm)	14.6" (371mm)	15.4" (391mm)	5.5" (140mm)	2.5" (64mm)	1262DS
15" (375mm)	16" (406mm)	17.75 (449mm)	18.6" (472mm)	6.5" (165mm)	2.5" (64mm)	1562DS
18" (450mm)	18" (457mm)	21.4" (544mm)	22.4" (569mm)	7.5" (191mm)	2.5" (64mm)	1862DS
24" (600mm)	14.8" (374mm)	28.2" (716mm)	29.25" (743mm)	6" (152mm)	2.5" (64mm)	2462DS
30" (750mm)	16.5" (419mm)	8" (203mm)	NA	NA	2.5" (64mm)	3062DS
36" (900mm)	20.8" (528mm)	10" (254mm)	NA	NA	2.5" (64mm)	3662DS

ST CLEATED EXTERNAL ADAPTER FOR 12" PIPE DIAMETER
NOTE: ACCEPTABLE ALTERNATE FOR THIS PART



SPLIT COUPLER ADAPTER FOR 30 & 36" PIPE DIAMETER



END VIEW SIDE VIEW

NOTES:
ALL FITTINGS DIMENSIONS ARE FOR REFERENCE ONLY

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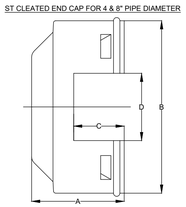
ADS — ADVANCED DRAINAGE SYSTEMS, INC.

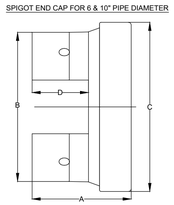
DRAWING #:	STD-1405
DRAWN BY:	CWS
APPROVED BY:	KAK
REVISIONS:	
SCALE:	NTS

DURASLOT® END CAPS
4" - 36" DIAMETER

ST CLEATED END CAP FOR 4 & 8" PIPE DIAMETER



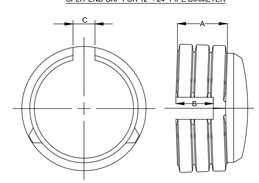
SPIGOT END CAP FOR 6 & 10" PIPE DIAMETER



STANDARD & VARIABLE SLOT RISER END CAP DIMENSIONS

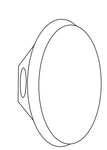
PIPE DIAM.	A	B	C	D	PRODUCT #
4" (100mm)	2.75" (70mm)	5.125" (130mm)	1.5" (38mm)	2" (50mm)	0433DS
6" (150mm)	4.5" (114mm)	6.95" (177mm)	7.63" (194mm)	3" (76mm)	0633DS
8" (200mm)	4.25" (108mm)	9.875" (249mm)	2.5" (64mm)	2.5" (64mm)	0833DS
10" (250mm)	5" (127mm)	11.56" (294mm)	12.13" (308mm)	3.5" (89mm)	1033DS
12" (300mm)	5.76" (146mm)	4.25" (108mm)	2.5" (64mm)	NA	1233DS
15" (375mm)	7.77" (197mm)	6.25" (159mm)	2.5" (64mm)	NA	1533DS
18" (450mm)	8.04" (204mm)	6.50" (165mm)	2.5" (64mm)	NA	1833DS
24" (600mm)	9.45" (240mm)	8" (200mm)	2.5" (64mm)	NA	2433DS
30" (750mm)	NA	NA	NA	NA	3033AA
36" (900mm)	NA	NA	NA	NA	3633AA

SPLIT END CAP FOR 12" - 24" PIPE DIAMETER



END VIEW TOP VIEW

TAYLOR END PLUG FOR 30 & 36" PIPE DIAMETER



NOTES:
1. ALL FITTINGS DIMENSIONS ARE FOR REFERENCE ONLY
2. THE TAYLOR END PLUG IS UTILIZED AS A PERMANENT END TREATMENT WITH DURASLOT PIPE BECAUSE THE ENTIRE SYSTEM IS ENCASED IN CONCRETE

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ADS — ADVANCED DRAINAGE SYSTEMS, INC.

DRAWING #:	STD-1405
DRAWN BY:	CWS
APPROVED BY:	KAK
REVISIONS:	
SCALE:	NTS

DATE	REVISION	BY

DMK ASSOCIATES ENGINEERS ■ SURVEYORS
421 Commercial Court, Suite C Venice, Florida 34292
Phone (941)412-1293, Fax (941)412-1043
Certificate of Authorization No. 3943

DATE 11/25/2019	CKD. BY	DATE
DRAWN DRA	TER	06/04/20
DESIGN DRA	TER	06/04/20
SCALE @ 22"x34"	DMK NO.	19-0127

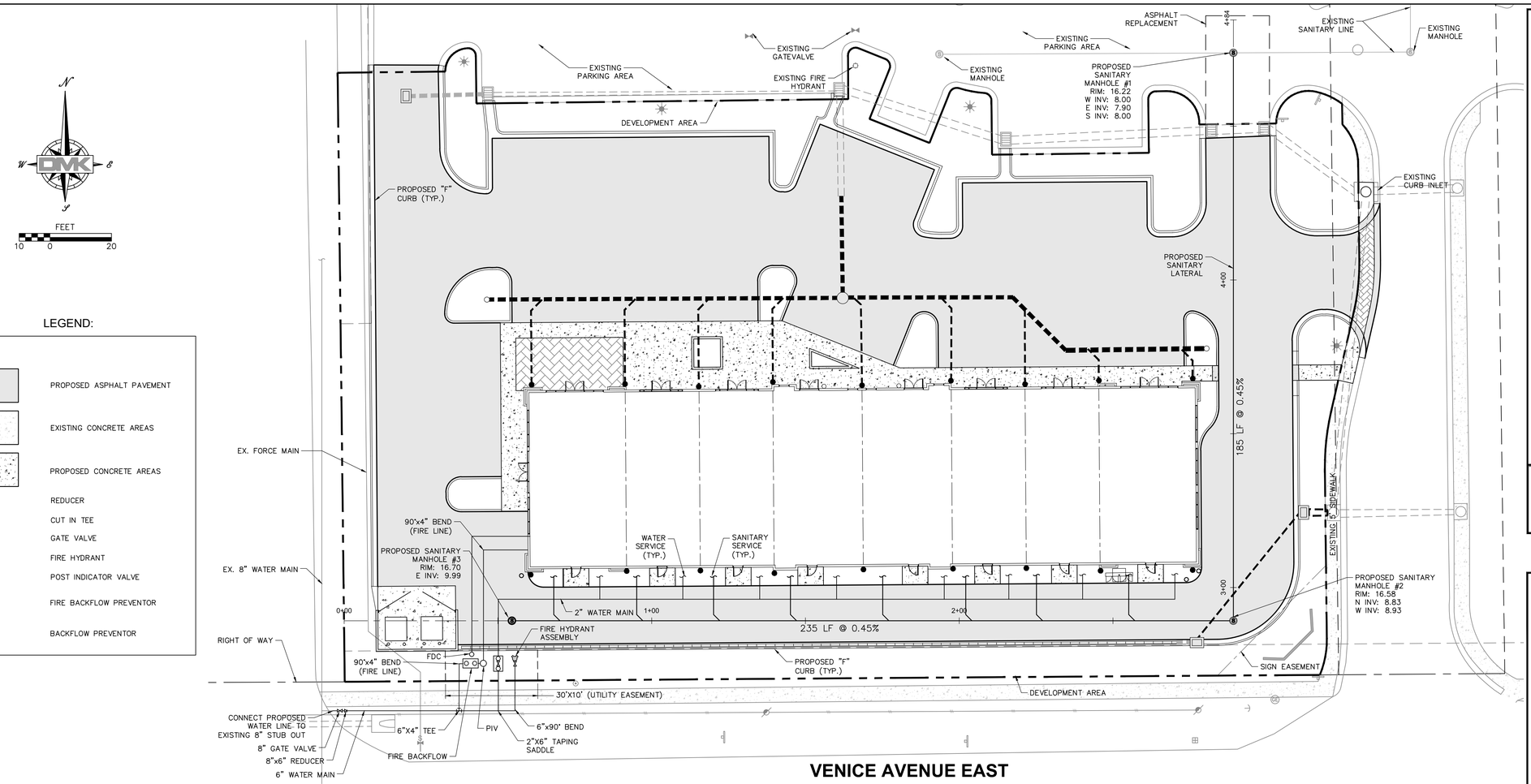
MICHAEL ARANDA
THE GALLERIA SHOPS, LLC.
1222 SW 47th STREET SUITE 330
CAPE CORAL, FL. 33094

1460 E VENICE AVE
SLOT DRAIN DETAILS

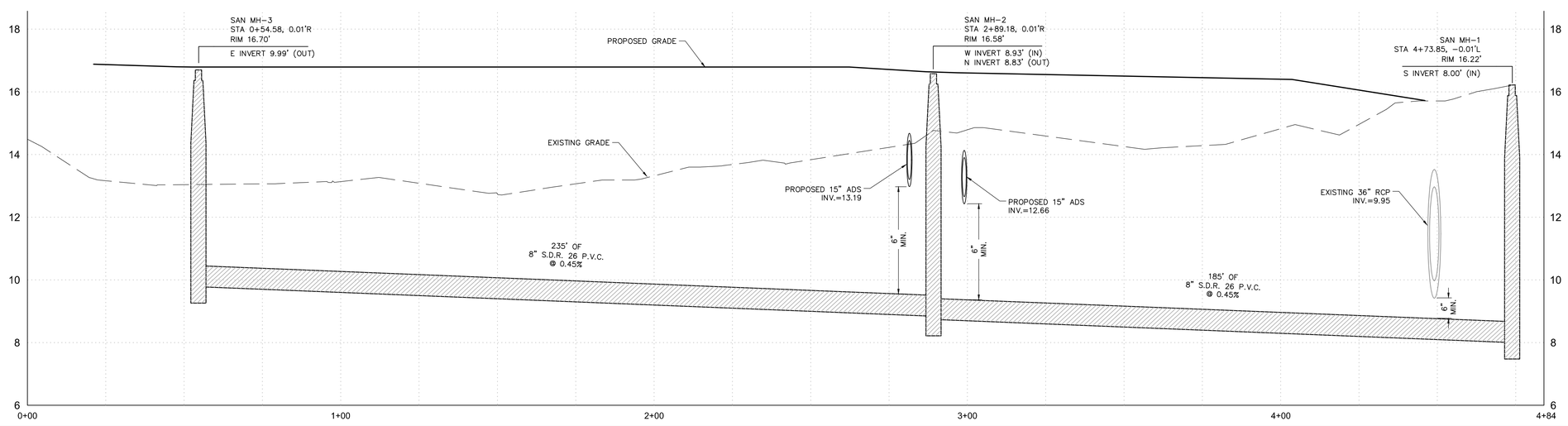
ENGINEER OF RECORD
TIMOTHY E. ROANE, P.E.
STATE OF FLORIDA NO. 63113

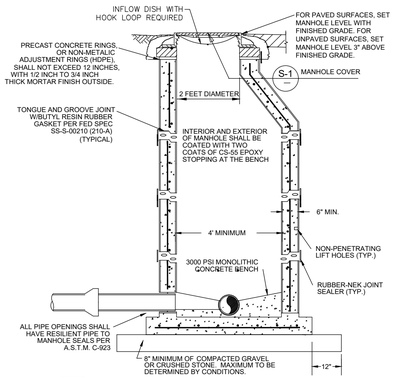
SHEET No.
10

Drawing name: F:\Projects\2019\19-0127 1500 E. Venice Ave\dwg\19-0127_10 Slot & Drain Details.dwg Tab: Paving Grading & Drainage Details Date Printed: Thu, 04 Jun 2020 - 8:59am



VENICE AVENUE EAST





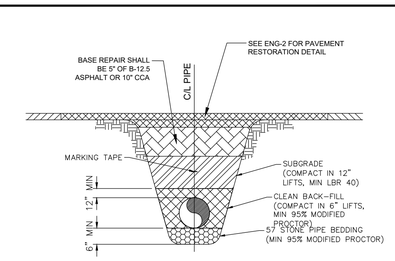
NOTES:

1.) MANHOLE SHALL CONFORM TO A.S.T.M. C-478 LATEST REVISION TYPE II CONCRETE, 4000 P.S.I. 28 DAY COMPRESSIVE STRENGTH
2.) TURBULENT MANHOLES, AND DROP MANHOLES, SHALL BE LINED WITH AGRU SURE GRIP HDPE. FOR EXISTING MANHOLES RECEIVING FORCE MAINS, LINE WITH RAVENS COAT 405 EPOXY.
3.) ECCENTRIC CONE MANHOLES SHALL BE USED WHENEVER POSSIBLE. WHERE STRUCTURAL CONDITIONS DICTATE, A CONCENTRIC CONE MAY BE USED IN LIEU OF AN ECCENTRIC CONE.
4.) FOR MANHOLES LESS THAN 5 FEET IN DEPTH, A SHALLOW MANHOLE (DETAIL 8, THIS SHEET) SHALL BE USED.
5.) MONOLITHIC, DUCTILE IRON ADJUSTMENT RINGS MAY ONLY BE USED FOR SURFACE OVERLAY PROJECTS, NOT FOR NEW CONSTRUCTION.
6.) INFLOW DISH SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR.

SANITARY SEWER MANHOLE DETAIL

N.T.S.

CITY OF VENICE ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	UTILITIES - SEWER SANITARY SEWER MANHOLE	DATE MAY 2020 SHEET NO. S-2



1.) COPPERHEAD TRACING WIRE #12 AWG OR EQUAL SHALL BE ATTACHED TO TOP OF PIPE AT 20' INTERVALS ON ALL SEWER MAINS. IT SHALL BE COLOR CODED GREEN FOR SEWER.
2.) MINIMUM COVER SHALL BE 36" FROM TOP OF PIPE TO FINISHED GRADE.
3.) INSTALLATION OF PIPE SHALL BE IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.
4.) PAVEMENT RESTORATION SHALL CONFORM WITH DETAIL ENG-2 OF THESE CITY STANDARDS.
5.) ALL UTILITIES (PUBLIC AND PRIVATE) THAT CROSS A DITCH / SWALE SHALL BE 36" MIN BELOW THE ACTUAL / DESIGN BOTTOM OF CONVEYANCE.
6.) MARKING TAPE SHALL BE PROVIDED PER U-1.

SEWER PIPE TRENCH DETAIL

N.T.S.

CITY OF VENICE ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	UTILITIES - GENERAL SEWER PIPE TRENCH	DATE MAY 2020 SHEET NO. S-6

DATE	REVISION	BY

DMK ASSOCIATES ENGINEERS ■ SURVEYORS
421 Commercial Court, Suite C Venice, Florida 34292
Phone (941)412-1293, Fax (941)412-1043
Certificate of Authorization No. 3943

DATE 11/25/2019	CKD. BY	DATE
DRAWN DRA	TER	06/05/20
DESIGN DRA	TER	06/05/20
SCALE @ 22"x34"	DMK NO.	19-0127

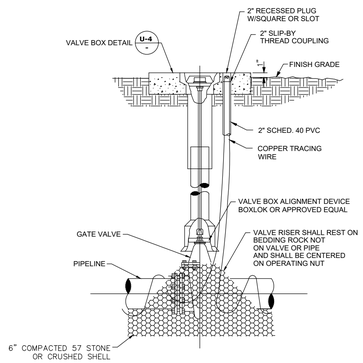
MICHAEL ARANDA
THE GALLERIA SHOPS, LLC.
1222 SW 47th STREET SUITE 330
CAPE CORAL, FL. 33094

1460 E VENICE AVE
UTILITY PLAN

ENGINEER OF RECORD
TIMOTHY E. ROANE, P.E.
STATE OF FLORIDA NO. 63113

SHEET No.
11

Drawing name: F:\Projects\2019\19-0127 1500 E. Venice Ave\dwg\19-0127_11 Utility Plan.dwg Tab: Utility Plan Date Printed: Fri, 05 Jun 2020 - 3:35pm

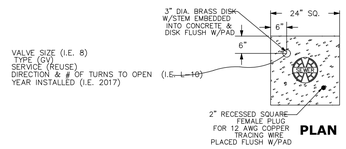


1.) GATE VALVES SHALL BE RESILIENT WEDGE-TYPE MANUFACTURED BY MUELLER, AMERICAN VALVE, OR EQUAL. ALL GATE VALVES SHALL BE FUSION BONDED EPOXY COATED (INTERIOR AND EXTERIOR) MEET ANSI/AWWA C550, AND BE NSF61 CERTIFIED. BRANCH VALVES SHALL BE LOCATED AS CLOSE AS POSSIBLE TO THE TEE.
2.) FOR VALVES LARGER THAN 12" IN USE BUTTERFLY STYLE VALVE.
3.) VALVE SHALL BE INSTALLED IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.
4.) COPPERHEAD TRACING WIRE PART #12 AWG OR EQUAL SHALL BE USED. IT SHALL BE COLOR CODED TO REFLECT WHAT THE PIPE CARRIES. (BLUE = WATER, PURPLE = REUSE)
5.) FOR CURBED ROADWAYS: CURB SHALL BE ETCHED WITH THE LETTER "V" DIRECTLY PERPENDICULAR TO THE VALVE BOX.
6.) ALL BOLTS AND HARDWARE SHALL BE 316 SS.

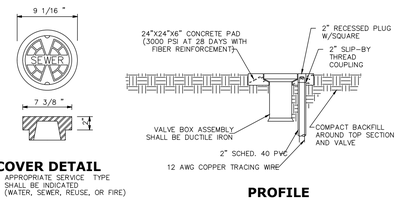
GATE VALVE DETAIL

(WATER AND REUSE ONLY)
N.T.S.

CITY OF VENICE ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL. 34285 (941) 486-2626 FAX (941) 480-3031	UTILITIES - WATER	DATE MAY 2020
	GATE VALVE	SHEET NO. W-1



PLAN



COVER DETAIL
APPROPRIATE SERVICE TYPE SHALL BE INDICATED (WATER, SEWER, REUSE, OR FIRE)

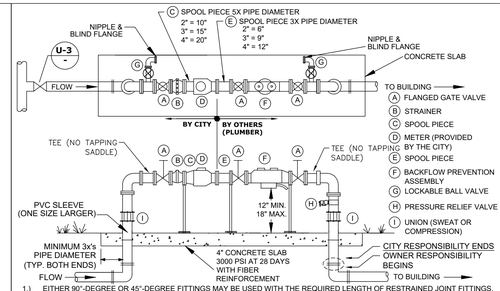
PROFILE

1.) PAVED AREAS: SET CONCRETE PAD AND COVER FLUSH WITH FINISHED PAVEMENT SURFACE.
2.) UNPAVED AREAS: SET PAD AND COVER 1 INCH ABOVE FINISHED GRADE.
3.) VALVES LOCATED IN DITCH AND OVER 4' DEPTH (LINE) MUST USE TRENCH ADAPTER VALVE BOX (AMERICAN FLOW CONTROL).
4.) COPPERHEAD TRACING WIRE #12 AWG OR EQUAL SHALL BE USED. IT SHALL BE COLOR CODED TO REFLECT WHAT THE PIPE CARRIES (BLUE = WATER, GREEN = SEWER, PURPLE = REUSE). CONTINUITY TEST SHALL BE PERFORMED ON ALL TRACER WIRES.
5.) PRE-CAST PADS MAY BE USED WITH CITY APPROVAL.
6.) FOR CURBED ROADWAYS: CURB SHALL BE ETCHED WITH THE LETTER "V" DIRECTLY PERPENDICULAR TO THE VALVE BOX.
7.) VALVE BOX COVERS SHALL BE PAINTED BLUE FOR POTABLE WATER, PURPLE FOR REUSE WATER, AND GREEN FOR SEWER.

VALVE BOX DETAIL

N.T.S.

CITY OF VENICE ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL. 34285 (941) 486-2626 FAX (941) 480-3031	UTILITIES - GENERAL	DATE MAY 2020
	VALVE BOX	SHEET NO. U-4



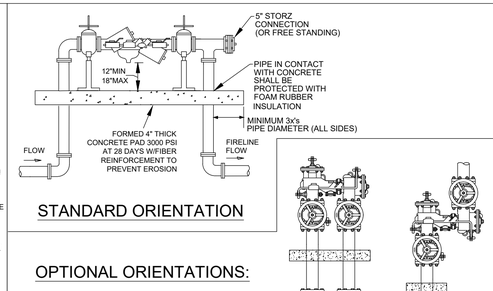
1.) EITHER 90°-DEGREE OR 45°-DEGREE FITTINGS MAY BE USED WITH THE REQUIRED LENGTH OF RESTRAINED JOINT FITTINGS.
2.) BACKFLOW PREVENTION ASSEMBLY TYPE SHALL BE DETERMINED BY THE CITY OF VENICE UTILITIES DEPARTMENT'S MOST CURRENT CROSS-CONNECTION CONTROL PROGRAM MANUAL, AND SHALL BE INSTALLED IMMEDIATELY FOLLOWING THE METER.
3.) ALL BACKFLOW PREVENTION ASSEMBLIES SHALL BE APPROVED BY THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH AND/OR ASSE 1013.
4.) ALL CONCRETE PIPE PENETRATIONS SHALL BE PROTECTED WITH A PVC SLEEVE, ONE SIZE LARGER THAN RISER PIPE.
5.) VALVES SHALL BE FULL PORTED FULL FLOW BALL VALVES OR RESILIENT WEDGE NON-RISING STEM GATE VALVES.
6.) PIPE BETWEEN TAP & ISOLATION VALVE SHALL BE C900 PVC.
7.) THE WATER METER SHALL MATCH THE BACKFLOW AND ASSEMBLY PIPE SIZE.
8.) METERS 1-1/2" AND UP WILL HAVE FLANGES. LAY LENGTHS MUST BE VERIFIED PRIOR TO CONSTRUCTION OF ASSEMBLIES.
9.) ASSEMBLIES 2" AND UP REQUIRE ONE UNION ON THE UPSTREAM RISER.
10.) ASSEMBLIES 1-1/2" AND SMALLER REQUIRE TWO UNIONS.
11.) METERS 1-1/2" AND SMALLER REQUIRE A LOCKABLE CURB STOP.
12.) NO SPOOL PIECE REQUIRED FOR 3/4", 1", OR 1 1/2".
13.) ALL COMMERCIAL AND MULTI FAMILY UNIT METERS MUST BE ABOVE GRADE. REUSE METERS 2" AND LESS MAY BE BELOW GROUND.
14.) BACKFLOW PREVENTION ASSEMBLY AND BYPASS ARE NOT REQUIRED FOR REUSE METER ONLY.
15.) BACKFLOW PREVENTION ASSEMBLIES SHALL ONLY BE BY-PASSED IF A TEMPORARY RP IS INSTALLED ON BY-PASS.
16.) NO BRANCH OR TEE SERVICE CONNECTIONS, OTHER THAN THE UTILITIES METER BY-PASS RETURN TEE, SHALL EXIST BETWEEN THE WATER METER AND BACKFLOW PREVENTER.
17.) THE ENGINEER OF RECORD SHALL SUBMIT METER SIZING CALCULATIONS BASED ON SERVICE DEMAND PER AWWA M-22 AND SUBJECT TO APPROVAL BY THE UTILITY DEPARTMENT.
18.) PARALLEL BACKFLOW ASSEMBLY MAY BE PERMITTED TO ALLOW FOR UNINTERRUPTED SERVICE AND SHALL PROVIDE THE SAME DEGREE OF PROTECTION OR GREATER.
19.) NO PVC SHALL BE PERMITTED ON THE CITY SIDE.

METER SIZE (IN.)	BY-PASS SIZE
3/4"	NO BYPASS
1"	NO BYPASS
1 1/2"	1"
2"	1 1/2"
3"	2"
4"	3"

WATER & REUSE METER & BACKFLOW PREVENTION ASSEMBLY

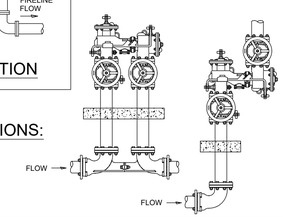
ABOVE GROUND COMMERCIAL/MULTI-UNIT/SINGLE SERVICE/MASTER METER (WITH BY-PASS AROUND METER ONLY) N.T.S.

CITY OF VENICE ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL. 34285 (941) 486-2626 FAX (941) 480-3031	UTILITIES - WATER	DATE MAY 2020
	WATER & REUSE METER & BACKFLOW	SHEET NO. W-4



STANDARD ORIENTATION

OPTIONAL ORIENTATIONS:

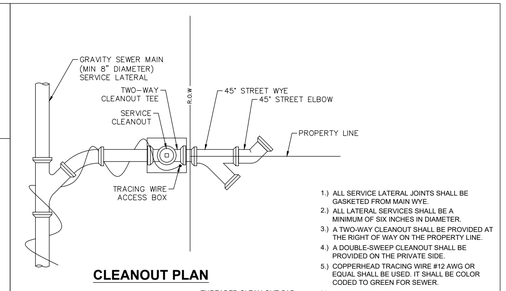


1.) ALL BACKFLOW PREVENTION ASSEMBLIES SHALL BE APPROVED BY THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH AND/OR 1047 OR 1048 ASSE AS APPLICABLE
2.) 45° FITTINGS MAY BE SUBSTITUTED FOR 90° FITTINGS.
3.) PIPE BETWEEN TAP & ISOLATION VALVE SHALL BE C900 PVC OR HDPE.
4.) IF TEEING OFF FOR POTABLE SERVICE, INSTALL INDICATOR VALVE BETWEEN TEE FOR POTABLE SERVICE AND FIRE SERVICE BACKFLOW ASSEMBLY.
5.) ASSEMBLY SHALL BE PAINTED RED WITH ALKYD ENAMEL, EPOXY OR POLYURETHANE BASED PAINT, EXCEPT FOR STAINLESS STEEL PARTS.
6.) VALVE ASSEMBLIES SHALL MEET NFPA 24 REQUIREMENTS AND INDICATOR VALVES SHALL BE PROVIDED.
7.) FOR CLEARANCE ISSUES, PLEASE REFER TO THE CURRENT FLORIDA FIRE PREVENTION CODE REQUIREMENTS.
8.) FOR FIRE PROTECTION SYSTEMS EQUIPPED WITH A FIRE PUMP, THE PIPE BETWEEN THE CHECK VALVE AND THE OUTSIDE CONNECTION SHALL BE EQUIPPED WITH AN APPROVED BALL DRIP.
9.) BACKFLOW PREVENTION ASSEMBLY TYPE SHALL BE DETERMINED BY THE CITY OF VENICE UTILITIES DEPARTMENT'S MOST CURRENT CROSS-CONNECTION CONTROL PROGRAM.
10.) 5" STORZ INLET CONNECTION MAY BE REDUCED FOR PIPE SIZES LESS THAN 5".

FIRE SERVICE BACKFLOW ASSEMBY

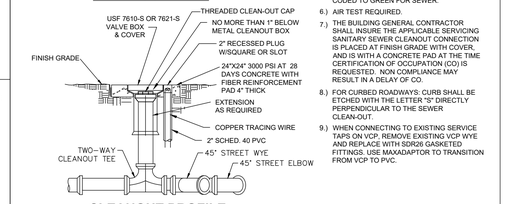
SIZE 2" - 10" N.T.S.

CITY OF VENICE ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL. 34285 (941) 486-2626 FAX (941) 480-3031	UTILITIES - WATER	DATE MAY 2020
	FIRE SERVICE BACKFLOW ASSEMBLY	SHEET NO. W-9



CLEANOUT PLAN

1.) ALL SERVICE LATERAL JOINTS SHALL BE GASKETED FROM MAIN WYE.
2.) ALL LATERAL SERVICES SHALL BE A MINIMUM OF SIX INCHES IN DIAMETER.
3.) A TWO-WAY CLEANOUT SHALL BE PROVIDED AT THE RIGHT OF WAY ON THE PROPERTY LINE.
4.) A DOUBLE-SWEEP CLEANOUT SHALL BE PROVIDED ON THE PRIVATE SIDE.
5.) COPPERHEAD TRACING WIRE #12 AWG OR EQUAL SHALL BE USED. IT SHALL BE COLOR CODED TO GREEN FOR SEWER.
6.) AIR TEST REQUIRED.
7.) THE BUILDING GENERAL CONTRACTOR SHALL INSURE THE APPLICABLE SERVICING SANITARY SEWER CLEANOUT CONNECTION IS PLACED AT FINISH GRADE WITH COVER, AND IS WITH A CONCRETE PAD AT THE TIME CERTIFICATION OF OCCUPATION (CO) IS REQUESTED. NON COMPLIANCE MAY RESULT IN A DELAY OF CO.
8.) FOR CURBED ROADWAYS: CURB SHALL BE ETCHED WITH THE LETTER "S" DIRECTLY PERPENDICULAR TO THE SEWER CLEAN-OUT.
9.) WHEN CONNECTING TO EXISTING SERVICE TAPS ON VCP, REMOVE EXISTING VCP WYE AND REPLACE WITH SDR26 GASKETED FITTINGS. USE MAXADAPTOR TO TRANSITION FROM VCP TO PVC.

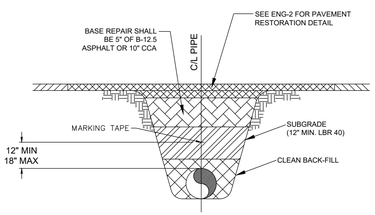


CLEANOUT PROFILE

SANITARY SEWER SERVICE & CLEANOUT DETAIL

N.T.S.

CITY OF VENICE ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL. 34285 (941) 486-2626 FAX (941) 480-3031	UTILITIES - SEWER	DATE MAY 2020
	SEWER SERVICE & CLEANOUT	SHEET NO. S-4



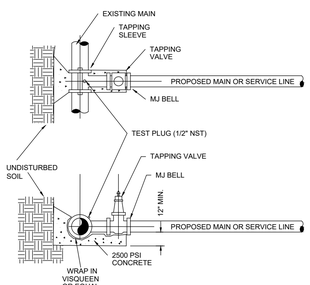
MARKING TAPE AND MESSAGES		
PIPE	TAPE COLOR	MESSAGE
PVC STORM WATER	WHITE	CAUTION STORM WATER OR STORM DRAIN BELOW
POTABLE WATER MAIN	BLUE	CAUTION POTABLE WATER MAIN BELOW
REUSE WATER MAIN	PURPLE	CAUTION REUSE WATER MAIN BELOW
SEWER FORCE MAIN	GREEN	CAUTION SEWER FORCE MAIN BELOW
SEWER & SERVICE LATERALS	GREEN	CAUTION SEWER MAIN BELOW

1.) COPPERHEAD TRACING WIRE #12 AWG OR EQUAL SHALL BE ATTACHED TO TOP OF PIPE AT 20' INTERVALS ON ALL RECLAIMED WATER, FORCE, OR POTABLE WATER MAINS. IT SHALL BE COLOR CODED TO REFLECT WHAT THE PIPE CARRIES. (BLUE = WATER, GREEN = SEWER, PURPLE = REUSE)
2.) MINIMUM COVER SHALL BE 36" FROM TOP OF PIPE TO FINISHED GRADE MAXIMUM COVER SHALL BE 42" FROM FINISHED GRADE UNLESS OTHERWISE APPROVED.
3.) INSTALLATION OF PIPE SHALL BE IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.
4.) PAVEMENT RESTORATION SHALL CONFORM WITH DETAIL ENG-2 OF THESE CITY STANDARDS.
5.) CONFLICTS - UTILIZE 45° BENDS WITH SEPARATION AS PER CITY DETAILS.
6.) ALL UTILITIES (PUBLIC & PRIVATE) THAT CROSS A DITCH/SWALE SHALL BE 36" MIN. BELOW THE ACTUAL/DESIGN BOTTOM OF CONVEYANCE.
7.) MARKING TAPE SHALL BE 3" WIDE (MIN.) DETECTIBLE UNDERGROUND WARNING TAPE. INSTALL CENTERED DIRECTLY OVER THE PIPE.
8.) SEE S-6 FOR GRAVITY SEWER PIPE TRENCH DETAIL.

PRESSURE PIPE TRENCH DETAIL

N.T.S.

CITY OF VENICE ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL. 34285 (941) 486-2626 FAX (941) 480-3031	UTILITIES - GENERAL	DATE MAY 2020
	UTILITY PIPE TRENCH	SHEET NO. U-1

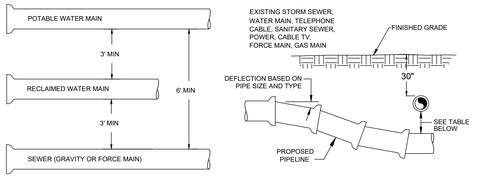


1.) EXISTING MAIN SHALL NOT BE TAPPED UNTIL THE ASSEMBLED SLEEVE AND VALVE ARE TESTED IN PLACE AT A MINIMUM OF 150 PSI FOR THIRTY MINUTES.
2.) UPON SUCCESSFUL TAPPING SLEEVE PRESSURE TEST (NOTE 1), THE THRUST BLOCK SHALL BE POURED AND HAVE SET FOR 24 HRS PRIOR TO TAPPING. READY-MADE THRUST BLOCKS CAN BE USED WITH CITY APPROVAL.
3.) STAINLESS STEEL TAPPING SLEEVE SHALL BE FORD. ALL HARDWARE SHALL BE 316 STAINLESS STEEL. GASKETS SHALL BE VIRGIN SBR COMPOUND.
4.) GATE VALVES SHALL BE RESILIENT WEDGE-TYPE MANUFACTURED BY MUELLER OR AMERICAN VALVE. ALL GATE VALVES SHALL BE FUSION BONDED EPOXY COATED (INTERIOR AND EXTERIOR) MEET ANSI/AWWA C550, AND BE NSF61 CERTIFIED.
5.) TAPPING SLEEVES MAY ONLY BE USED WHEN THE TAP DIAMETER IS AT LEAST ONE PIPE SIZE SMALLER THAN THE DIAMETER OF THE MAIN BEING TAPPED.
6.) VALVE BOX ALIGNMENT DEVICE SHALL BE INSTALLED IN ACCORDANCE WITH W-1 ON ALL VALVES ABOVE 1".

TAPPING SLEEVE & VALVE DETAIL

N.T.S.

CITY OF VENICE ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL. 34285 (941) 486-2626 FAX (941) 480-3031	UTILITIES - GENERAL	DATE MAY 2020
	TAPPING SLEEVE & VALVE	SHEET NO. U-3



MINIMUM HORIZONTAL SEPARATION DISTANCES (FT)
(OUTSIDE OF PIPELINE TO OUTSIDE OF PIPELINE)

	WATER MAIN	FORCE MAIN	SANITARY SERVICE	REUSE MAIN	STORM WATER	OTHER UTILITIES (TELEPHONE, CABLE, ETC.)
WATER MAIN	3	6	6	3	3	3
FORCE MAIN	6	3	3	3	3	3
SANITARY SEWER	6	3	3	3	3	3
REUSE MAIN	3	3	3	3	3	3
STORM WATER	3	3	3	3	3	3
OTHER UTILITIES	3	3	3	3	3	3

MINIMUM VERTICAL SEPARATION DISTANCES (IN)
(OUTSIDE OF PIPELINE TO OUTSIDE OF PIPELINE)

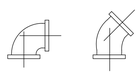
	WATER MAIN	FORCE MAIN	SANITARY SERVICE	REUSE MAIN	STORM WATER	OTHER UTILITIES (TELEPHONE, CABLE, ETC.)
WATER MAIN	6	12	12	6	6	6
FORCE MAIN	12	6	6	6	6	6
SANITARY SEWER	12	6	6	6	6	6
REUSE MAIN	6	6	6	6	6	6
STORM WATER	6	6	6	6	6	6
OTHER UTILITIES	6	6	6	6	6	6

1.) MAXIMUM JOINT DEFLECTION SHALL BE 90% OF MANUFACTURER'S RECOMMENDATION.
2.) WHEREVER POSSIBLE, THE LAYOUT OF UTILITIES SHALL PLACE SANITARY SEWER AND SEWER FORCE MAINS BELOW RECLAIMED MAINS AND BELOW WATER MAINS, RESPECTIVELY. WHERE WATER MAINS ARE ABOVE GRAVITY SEWERS OR WASTEWATER FORCE MAINS, A VERTICAL CLEARANCE OF 6 INCHES IS ACCEPTABLE. STORM SHALL BE PLACED BELOW BOTH WATER AND SEWER WHERE POSSIBLE.
3.) ACCEPTABLE VARIANCES:
   A. WHERE HORIZONTAL SEPARATION CANNOT BE MAINTAINED, C900 DR14 PVC PIPE SHALL BE USED FOR ONE OF THE PIPELINES.
   B. WHERE VERTICAL CLEARANCE CANNOT BE MAINTAINED, ONE FULL LENGTH OF DR14 C900 PIPE SHALL BE INSTALLED CENTERED AT THE POINT OF CROSSING.
   C. WHERE 36" MINIMUM DEPTH OF COVER CANNOT BE MAINTAINED, SPECIAL PROTECTION OR PIPE MATERIAL UPGRADE MAY BE REQUIRED, AT THE DISCRETION OF THE UTILITY DEPARTMENT.
4.) NO UTILITY PIPE SHALL PASS THROUGH, OR COME IN CONTACT WITH ANY PART OF A SANITARY MANHOLE OR STORMWATER STRUCTURE WITHOUT APPROVAL FROM THE UTILITIES DIRECTOR OR CITY ENGINEER.

UTILITY CONFLICT & SEPARATION DETAIL

N.T.S.

CITY OF VENICE ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL. 34285 (941) 486-2626 FAX (941) 480-3031	UTILITIES - GENERAL	DATE MAY 2020
	UTILITY CONFLICTS & SEPARATIONS	SHEET NO. U-5



1.) ALL PIPE FITTINGS SHALL BE COMPACT, DUCTILE IRON.
2.) ALL APPLICATIONS (RAW, POTABLE, REUSE, SEWER) SHALL BE FUSION BONDED EPOXY COATED INSIDE AND OUT.
3.) ALL FITTINGS SHALL MEET ANSI/AWWA C116/A21.16 STANDARDS.

PIPE FITTINGS

N.T.S.

SERVICE	COLOR	MATERIAL/CLASS
POTABLE WATER MAIN	BLUE	AWWA C900 PVC / DR 18 FUSIBLE C900 PVC / DR 18 HDPE PPI PE 4710 / DR 11 (DUCTILE IRON PIPE SIZE)
RAW WATER MAIN	WHITE	
REUSE MAIN	PURPLE	
FORCE MAIN (MIN. 4" DIAMETER)	GREEN	
WATER SERVICE	BLUE	PE (POLYTUBING) / DR 9
REUSE SERVICE	PURPLE	PE (POLYTUBING) / DR 9
GRAVITY SEWER MAIN (MIN. 8" DIAMETER)	GREEN	ASTMD3034 / SDR 26 FUSIBLE PVC / SDR 26
SEWER LATERAL (MIN. 6" DIAMETER)	GREEN	ASTMD3034 / SDR 26 / SDR 35 / SCH 40 PVC

PIPE MATERIAL SCHEDULE

N.T.S.

CITY OF VENICE ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL. 34285 (941) 486-2626 FAX (941) 480-3031	UTILITIES - GENERAL	DATE MAY 2020
	PIPE FITTINGS & MATERIAL	SHEET NO. U-6

MINIMUM LENGTH (FT) OF FORCE MAIN TO BE RESTRAINED ON EACH SIDE OF FITTING									
FITTING		PIPE SIZE (INCHES)							
		4	6	8	10	12	16	18	20	24
45 BEND:	H	6	9	12	14	16	21	23	25	29
	VU	4	6	7	9	10	13	15	16	19
	VD	12	20	26	32	37	48	53	28	68
22.5 BEND:	H	3	4	6	7	8	10	11	12	14
	VU	2	3	4	4	5	6	7	8	9
	VD	7	10	13	15	18	23	26	28	33
11.25 BEND:	H	2	2	3	3	4	5	5	6	7

MINIMUM LENGTH (FT) OF WATER OR REUSE MAIN TO BE RESTRAINED ON EACH SIDE OF FITTING									
FITTING		PIPE SIZE (INCHES)							
		4	6	8	10	12	16	18	20	24
90 BEND:	H	23	33	43	51	60	76	83	90	104
45 BEND:	H	10	14	18	21	25	31	34	37	43
	VU	6	8	11	13	16	20	22	24	28
	VD	22	30	40	48	56	72	80	87	102
22.5 BEND:	H	5	7	8	10	12	15	17	18	21
	VU	3	4	5	6	7	10	11	12	14
	VD	10	15	19	23	27	35	38	42	49
11.25 BEND:	H	2	3	4	5	6	7	8	9	10
PLUGS:		52	73	96	115	136	174	193	211	246

ABBREVIATIONS: H=HORIZONTAL, VU=VERTICAL UP, VD=VERTICAL DOWN.

1.) FOR TEE OR REDUCER FITTINGS SUBMIT RESTRAINED JOINT LENGTH CALCULATIONS TO CITY ENGINEER FOR REVIEW AND APPROVAL, USING THE ASSUMPTIONS LISTED ABOVE.
2.) RESTRAINED JOINT LENGTH FOR WATER AND REUSE MAINS BASED ON TEST PRESSURE OF 150 PSI. RESTRAINED JOINT LENGTH FOR FORCE (SEWER) MAINS BASED ON TEST PRESSURE OF 100 PSI. CALCULATIONS WERE MADE USING EBAA IRON SOFTWARE (AVAILABLE AT WWW.EBAA.COM) AND THE FOLLOWING ASSUMPTIONS: GRANULAR MATERIAL (GM) SOIL TYPE, TRENCH TYPE 3, BURY DEPTH OF 3 FT, AND SAFETY FACTOR OF 2 TO 1. IF FIELD CONDITIONS DIFFER FROM ABOVE ASSUMPTIONS EOR SHALL PROVIDE CALCULATIONS BASED ON ACTUAL CONDITIONS.
3.) RESTRAINED JOINT SHALL BE USED ON ALL JOINTS FROM ANY MAIN TEE TO ANY FIRE HYDRANT ASSEMBLY.
4.) THRUST BLOCKS WILL NOT BE ACCEPTED, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
5.) ALL HARDWARE SHALL BE 316 SS.

PRESSURE MAIN RESTRAINED JOINT TABLE

N.T.S.

CITY OF VENICE ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL. 34285 (941) 486-2626 FAX (941) 480-3031	UTILITIES - GENERAL	DATE MAY 2020
	RESTRAINED JOINT TABLE	SHEET NO. U-7

DATE	REVISION	BY

DMK ASSOCIATES ENGINEERS ■ SURVEYORS
421 Commercial Court, Suite C Venice, Florida 34292
Phone (941)412-1293, Fax (941)412-1043
Certificate of Authorization No. 3943

DATE 11/25/2019	CKD. BY	DATE
DRAWN DRA	TER	06/04/20
DESIGN DRA	TER	06/04/20
SCALE @ 22"x34"	DMK NO.	19-0127

MICHAEL ARANDA
THE GALLERIA SHOPS, LLC.
1222 SW 47th STREET SUITE 330
CAPE CORAL, FL. 33094

1460 E VENICE AVE
UTILITY DETAILS

ENGINEER OF RECORD
TIMOTHY E. ROANE, P.E.
STATE OF FLORIDA NO. 63113

SHEET No.
12

Drawing name: F:\Projects\2019\19-0127 1500 E. Venice Ave\dwg\19-0127_12 Utility Details.dwg Tab: Utility Plan Date Printed: Thu, 04 Jun 2020 - 8:59am

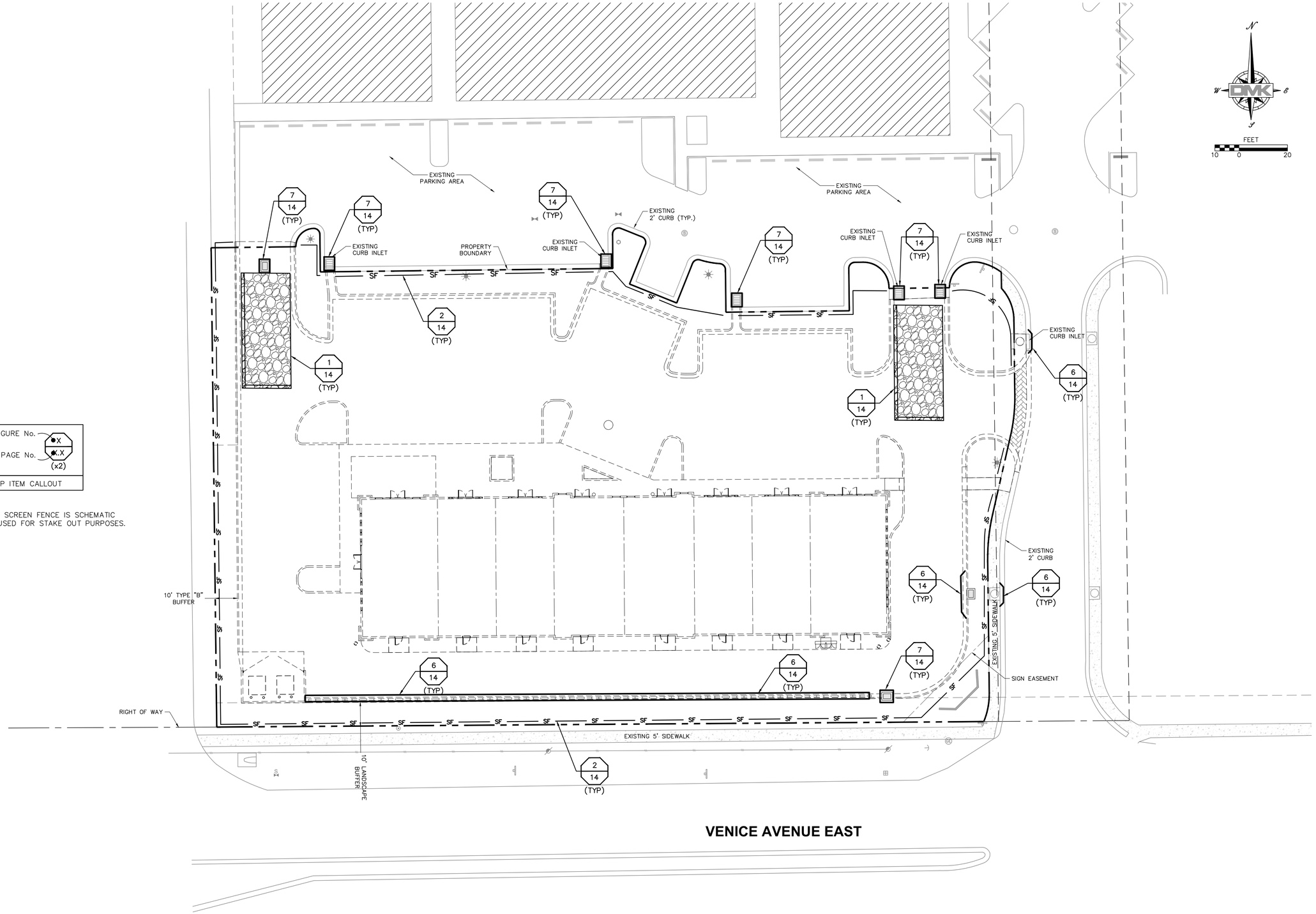


FIGURE No. X
FIGURE PAGE No. X.X (x2)
BMP ITEM CALLOUT

NOTE:
LOCATION OF SILT SCREEN FENCE IS SCHEMATIC AND NOT TO BE USED FOR STAKE OUT PURPOSES.

Drawing name: F:\Projects\2019\19-0127 1500 E. Venice Ave\dwg\19-0127_13 BMP Plan.dwg Tab: BMP Plan Date Printed: Thu, 04 Jun 2020 - 8:59am

DATE	REVISION	BY

DMK ASSOCIATES
ENGINEERS ■ SURVEYORS
421 Commercial Court, Suite C Venice, Florida 34292
Phone (941)412-1293, Fax (941)412-1043
Certificate of Authorization No. 3943

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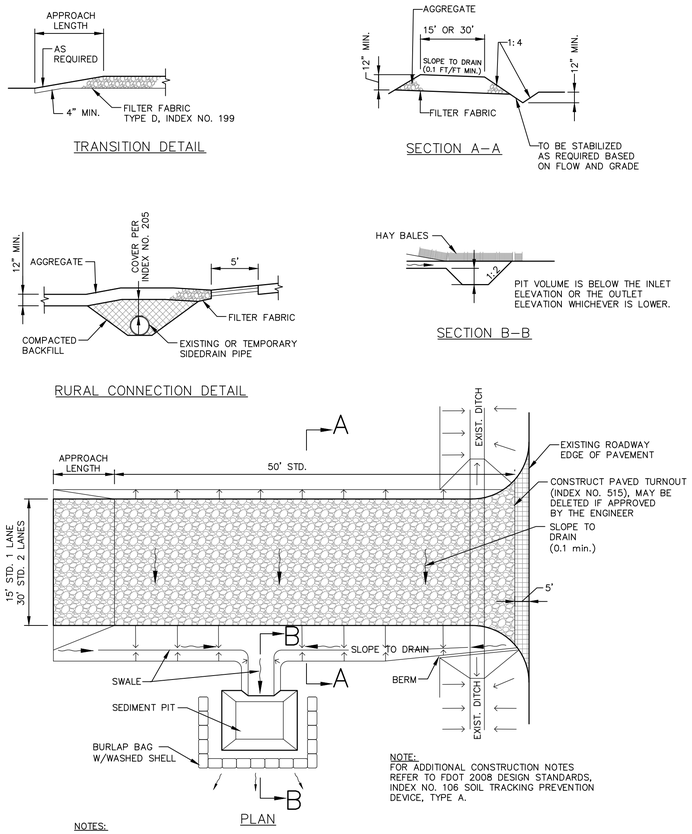
SCALE @ 22"x34"	DMK NO.	19-0127

MICHAEL ARANDA
THE GALLERIA SHOPS, LLC.
1222 SW 47th STREET SUITE 330
CAPE CORAL, FL. 33094

1460 E VENICE AVE
BEST MANAGEMENT PRACTICE PLAN

ENGINEER OF RECORD
TIMOTHY E. ROANE, P.E.
STATE OF FLORIDA NO. 63113

SHEET No.
13



NOTE:
FOR ADDITIONAL CONSTRUCTION NOTES REFER TO FDOT 2008 DESIGN STANDARDS, INDEX NO. 106 SOIL TRACKING PREVENTION DEVICE, TYPE A.

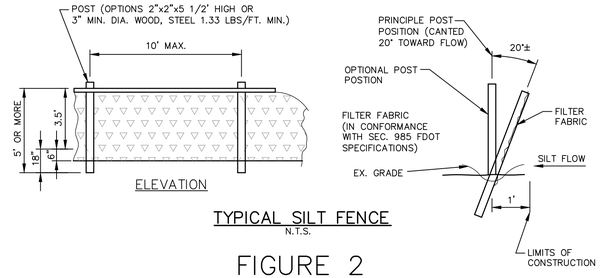
NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS– OF–WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT–OF–WAY
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

N.T.S.

FIGURE 1



TYPICAL SILT FENCE

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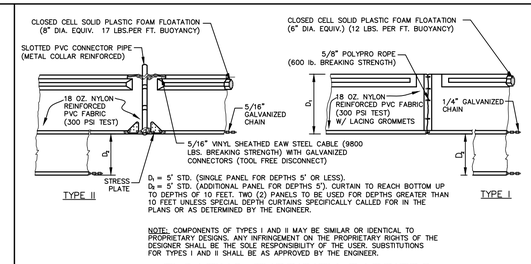
FIGURE 2



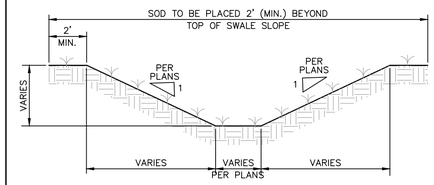
D_1 = 5' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS).
D_2 = 5' STD. (ADDITIONAL PANEL FOR DEPTHS 5'). CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET. TWO (2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

NOTE: COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

FLOATING TURBIDITY BARRIERS

N.T.S.

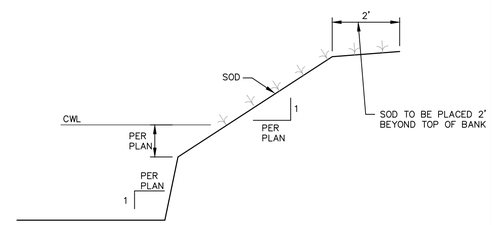
FIGURE 3



TYPICAL SWALE SECTION

N.T.S.

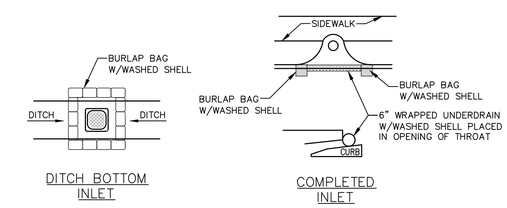
FIGURE 4



TYPICAL RETENTION/DETENTION POND SECTION

N.T.S.

FIGURE 5



PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

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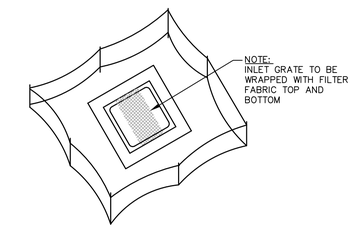
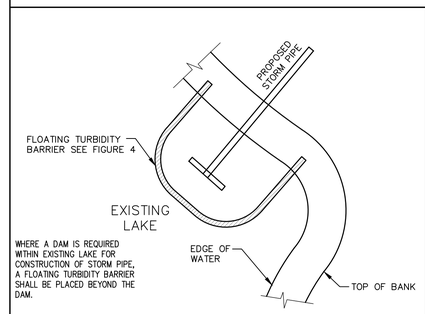
FIGURE 6



STAKED SILT BARRIER OR SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS

N.T.S.

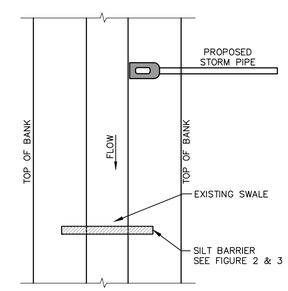
FIGURE 7



FLOATING TURBIDITY BARRIER AT CONNECTION OF STORM PIPE TO EXISTING LAKE

N.T.S.

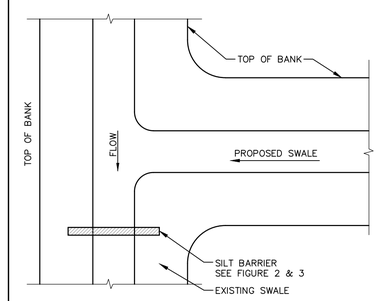
FIGURE 8



SILT BARRIER AT CONNECTION OF STORM PIPE TO EXISTING SWALE

N.T.S.

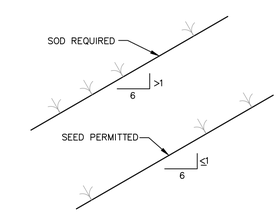
FIGURE 9



SILT BARRIER AT CONNECTION OF SWALE TO EXISTING SWALE

N.T.S.

FIGURE 10



GRASS SLOPES

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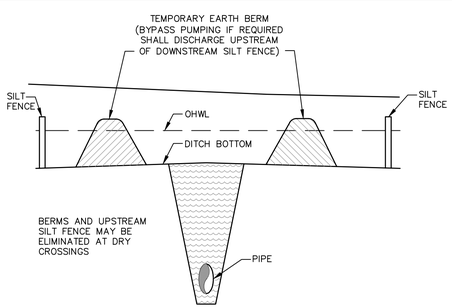
FIGURE 11



UNDERGROUND PIPE CROSSING

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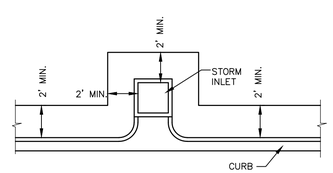
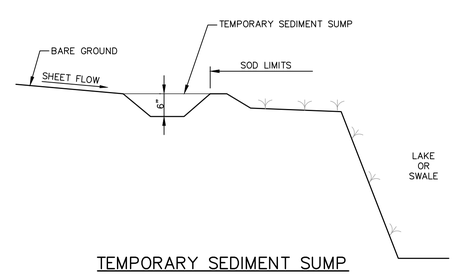
FIGURE 12



SOD ALONG CURB AND AROUND INLET

N.T.S.

FIGURE 13



TEMPORARY SEDIMENT SUMP

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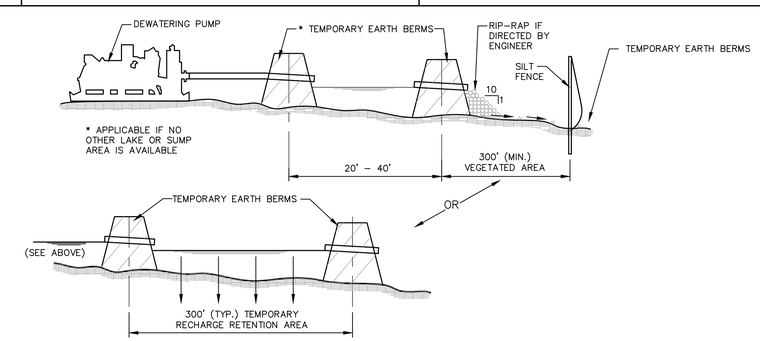
FIGURE 14



TYPICAL DEWATERING DISCHARGE PLAN

N.T.S.

FIGURE 15

DATE	REVISION	BY

DMK ASSOCIATES ENGINEERS ■ SURVEYORS
421 Commercial Court, Suite C Venice, Florida 34292
Phone (941)412-1293, Fax (941)412-1043
Certificate of Authorization No. 3943

DATE 11/25/2019	CKD. BY	DATE
DRAWN DRA	TER	06/04/20
DESIGN DRA	TER	06/04/20
SCALE @ 22"x34"	DMK NO.	19-0127

MICHAEL ARANDA
THE GALLERIA SHOPS, LLC.
1222 SW 47th STREET SUITE 330
CAPE CORAL, FL. 33094

1460 E VENICE AVE
BEST MANAGEMENT PRACTICE PLAN DETAILS

ENGINEER OF RECORD
TIMOTHY E. ROANE, P.E.
STATE OF FLORIDA NO. 63113

SHEET No.
14

Drawing name: F:\Projects\2019\19-0127 1500 E. Venice Ave\Dwg\19-0127_14 BMP-Details.dwg Tab: BMP Details Date Printed: Thu, 04 Jun 2020 – 8:59am