

NOTE:
HAY BALES SURROUNDING ENTIRE PERIMETER
OF INLET MAY BE SUBSTITUTED FOR FILTER CLOTH

INLET DEBRIS CONTROL SCREEN
N.T.S.

EROSION CONTROL NOTES:

- TO PREVENT SEDIMENTARY RUNOFF DURING CONSTRUCTION, STAKED HAYBALES, STAKED SILT SCREENS OR INLET DEBRIS CONTROL SCREENS ARE TO BE PLACED AT STORM INLETS, OUTFALL LOCATIONS AND ADJACENT PROPERTY LINES AS REQUIRED PRIOR TO ANY CONSTRUCTION ACTIVITIES.
SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSTALLED AND THEN VERIFIED/INSPECTED MANATEE COUNTY NATURAL RESOURCES DEPARTMENT PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE SEDIMENTATION BARRIERS IN A WORKING MANNER FOR THE DURATION OF CONSTRUCTION AND SHOULD BE CHECKED DAILY. SITUATION ACCUMULATIONS GREATER THAN THE LESSER OF 12 INCHES OR ONE-HALF OF THE DEPTH OF THE SEDIMENTATION BARRIER SHALL BE IMMEDIATELY REMOVED AND REPLACED IN UPLAND AREAS. IN ADDITION TO SPECIFIED EROSION CONTROL LOCATIONS, THE CONTRACTOR SHALL PERFORM DAILY SITE INSPECTIONS FOR POTENTIAL EROSION PROBLEMS. IF PROBLEMS OCCUR, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING APPROPRIATE EROSION CONTROL IMMEDIATELY. STORMWATER TREATMENT FACILITIES INCLUDING OUTFALL PER DETAIL ARE TO BE CONSTRUCTED EARLY IN SITE DEVELOPMENT, WITH NO OFF-SITE UNTREATED RUN-OFF OCCURRING DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING TEMPORARY EROSION CONTROL DEVICES FOLLOWING COMPLETION OF ALL CONSTRUCTION AND FINAL STABILIZATION.
- CONTRACTOR TO KEEP CONSTRUCTION ACTIVITIES AND EQUIPMENT TO A MINIMUM AT OUTFALL LOCATIONS WHICH DISCHARGE TO EXISTING JURISDICTIONAL AREAS. FLOATING OR STAKED TURBIDITY BARRIERS MAY BE USED IN LIEU OF STAKED HAYBALES/SILT SCREENS WHERE WARRANTED.
- ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN-PLACE UNTIL THE SITE HAS BEEN STABILIZED AND REVEGETATED.
- CONSTRUCTION METHOD AND MATERIALS TO BE IN ACCORDANCE WITH SECTION 104-6 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD CONSTRUCTION SPECIFICATIONS.
- HAY BALES MUST BE BUTTED CLOSE TOGETHER AND HAVE NO GAPS TO ALLOW FLOW TO PASS THROUGH WITHOUT BEING FILTERED.
- JOINTS OF THE FILTER FABRIC MUST BE OVERLAPPED AND PROPERLY CONNECTED TO PREVENT ANY OPENING FROM OCCURRING.

LEGEND

- EX. ASPHALT TO BE REMOVED
- S EX. SANITARY SEWER LINE
- D EX. STORM SEWER LINE
- W EX. WATER MAIN
- FM EX. FORCEMAIN
- EX. SPOT ELEVATIONS
- SILT FENCE

THE UNDERSIGNED, AS AN AUTHORIZED REPRESENTATIVE OF MANATEE COUNTY UTILITIES DEPARTMENT, ACKNOWLEDGES AND CERTIFIES THAT THE INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT AND THAT THE EROSION AND SURFACE WATER MANAGEMENT SYSTEMS:

APPLICANT ACKNOWLEDGEMENT SIGNATURE
(PER S.W.F.W.I.D. DIRECTIVE)

drawn: RAM
checked:
date: 09.30.2010
comm. no.: 0920828

BEST MANAGEMENT PRACTICES

C1

100% Construction Documents

SCHENKELSHULTZ
ARCHITECTURE
677 North Washington Blvd.
Sarasota, FL 34236
voice 941-952-5875
fax 941-957-3630
schenkelshultz.com
SS Lic No - AA-C000937

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ZNS ENGINEERING
201 5th Avenue Drive East
Bradenton, FL 34208
voice 941.748.8080
fax 941.748.3316
email zns@znseng.com

JEB C. MULOCK
PROFESSIONAL ENGINEER #54692

SIGNATURE

Utilities Maintenance and Administration Building

4700 66th Street West
Bradenton, FL 34210

Client:
Manatee County Government
1112 Manatee Avenue West
Bradenton, FL 34208

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 PERMIT TO CONSTRUCT IS THE CONTRACT ACT. IT IS THE CONTRACTOR'S OBLIGATION TO OBTAIN ALL NECESSARY PERMITS AND TO BE RESPONSIBLE FOR THE PROTECTION OF THE PUBLIC INTEREST. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE PUBLIC INTEREST. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE PUBLIC INTEREST. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE PUBLIC INTEREST.

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 Bradenton, FL 34210

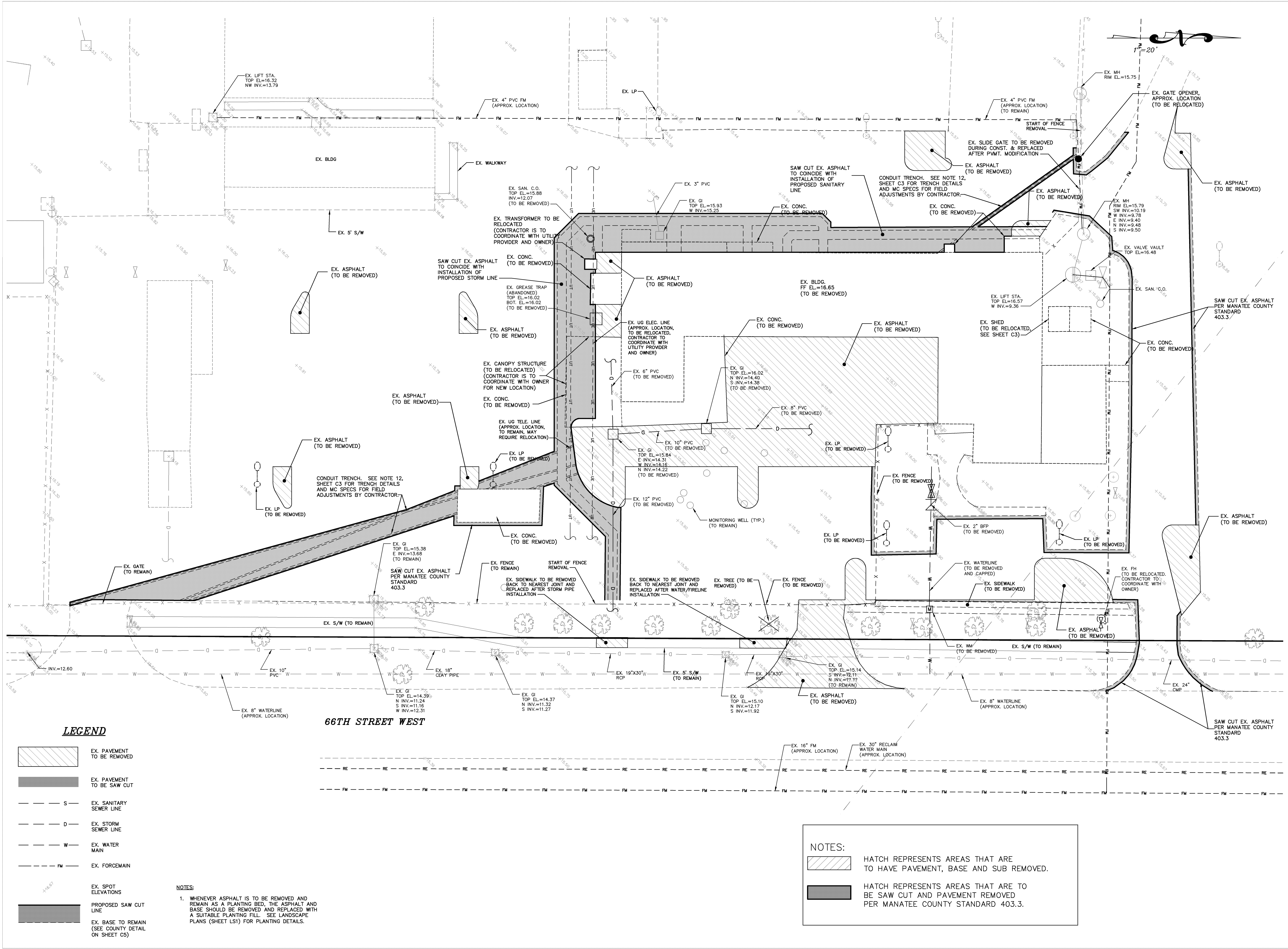
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 1112 Manatee Avenue West
 Bradenton, FL 34208

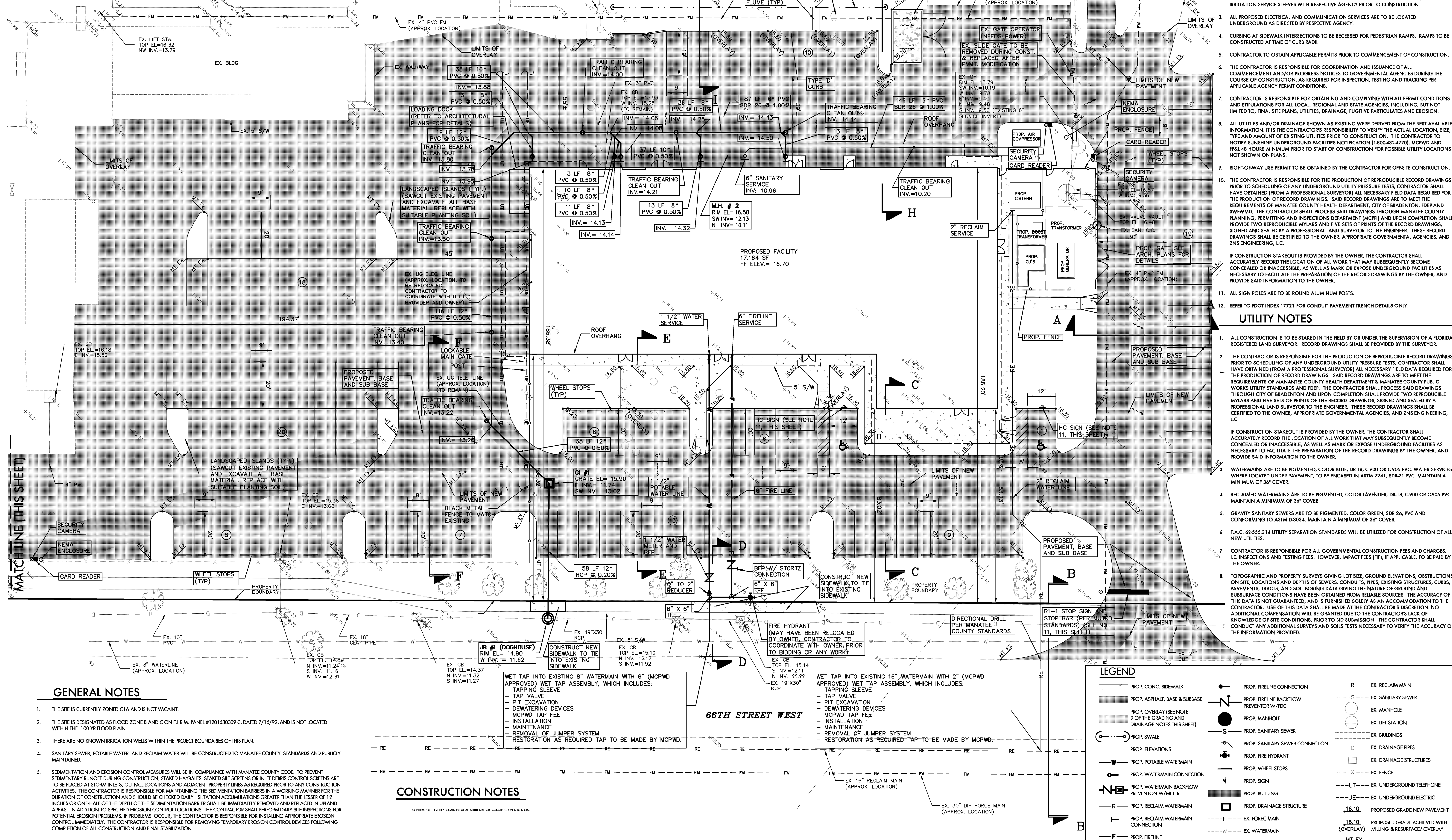
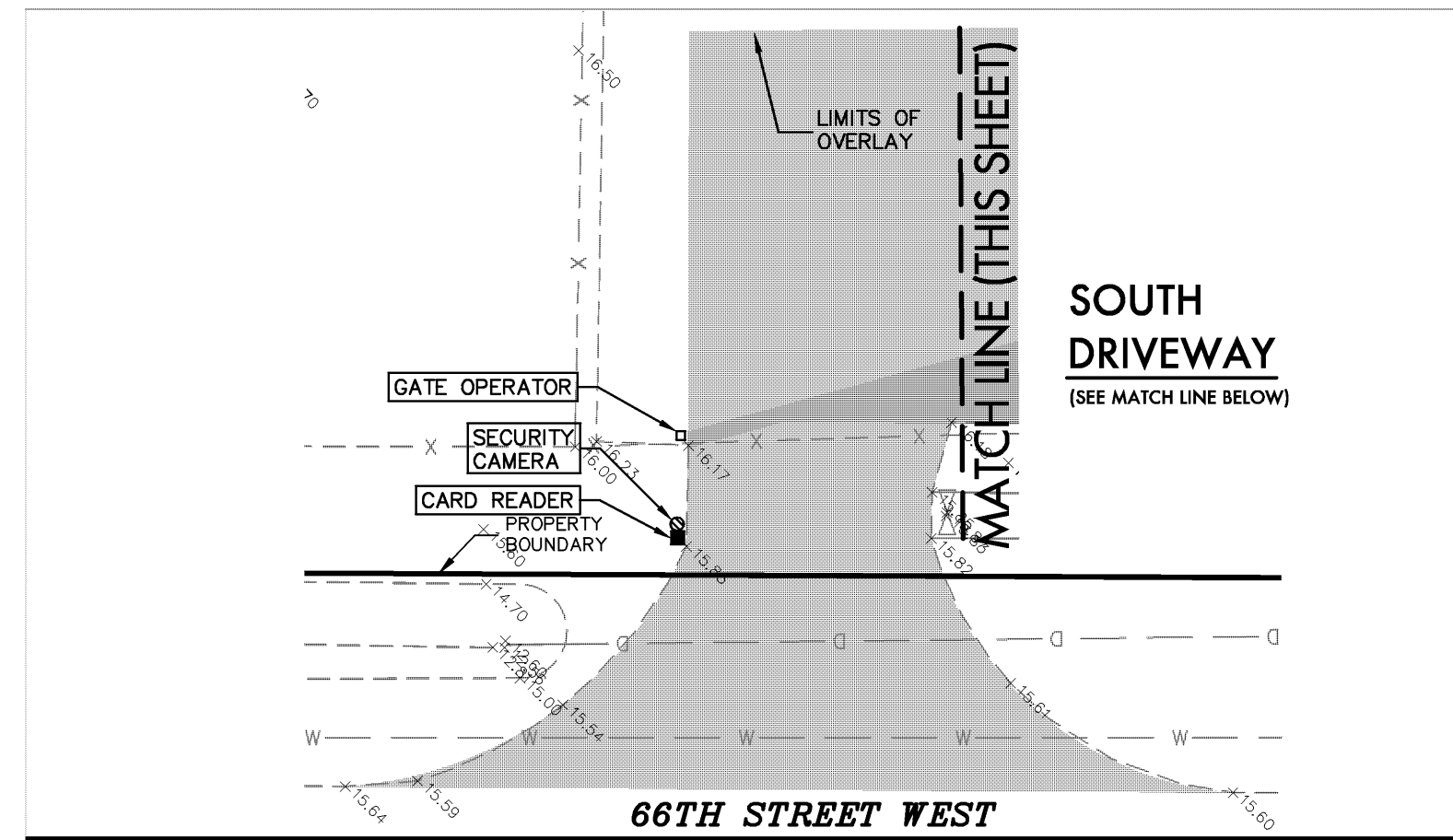
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 comm. no.: 0920828

**DEMOLITION &
 EXISTING
 CONDITIONS PLAN**

C2

100% Construction Documents





DRAINAGE AND GRADING NOTES

- ALL CONSTRUCTION IS TO BE STAKED IN THE FIELD BY OR UNDER THE SUPERVISION OF A FLORIDA REGISTERED LAND SURVEYOR.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURES PRIOR TO INSTALLATIONS.
- REFER TO GRADING DETAIL SHEETS FOR CROSS SECTION DETAILS.
- REFER TO CONSTRUCTION TECHNICAL SPECIFICATIONS FOR CONSTRUCTION REQUIREMENTS, GRASSING/SODDING REQUIREMENTS, AND PAVING CONSTRUCTION MATERIAL SPECIFICATIONS.
- ALL FILL AREAS ARE TO BE CONSTRUCTED IN 12" MAXIMUM LIFTS.
- ON SLOPES GREATER THAN 3:1 PEGGING OR FINING OF SOIL MAY BE REQUIRED.
- UNLESS OTHERWISE NOTED OR SHOWN ON PLANS ALL SURFACE, BASE AND PAVING SHALL COMPLY WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST VERSION). ALL SECTIONS APPLY, SPECIFICALLY STABILIZING (SECTION 140) & BITUMINOUS TREATMENT SURFACE COURSES AND CONCRETE PAVEMENT (SECTIONS 300, 320, 327, 330 & 334) SHOULD BE REVIEWED PRIOR TO BIDDING. IN ALL SECTIONS "DEPARTMENT" WOULD REFER TO MANATEE COUNTY.
- MINIMUM DEPTH OF ASPHALT OVERLAY IS 1/2" INCH. ALL EXISTING ASPHALT AS NECESSARY. REFER TO EXISTING CONDITION (SHEET C2) AND ENGINEERING PLAN (SHEET C3) FOR EXISTING VS. PROPOSED GRADE (DEPTH OF PROPOSED PAVEMENT) COMPARISONS.

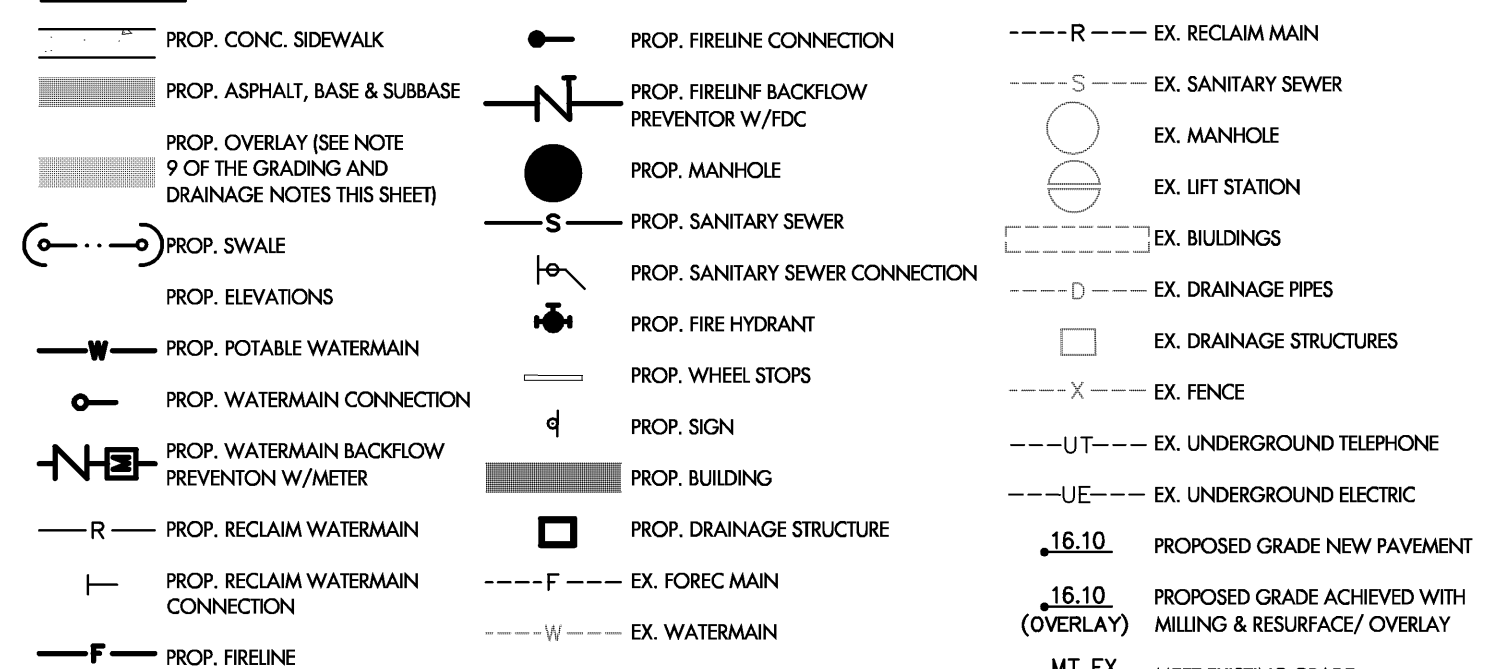
GENERAL CONSTRUCTION NOTES

- ALL PROPOSED CONSTRUCTION IS TO MEET OR EXCEED LATEST APPLICABLE MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS AND IS TO MEET ENGINEER'S SPECIFICATIONS.
- THE CONTRACTOR IS TO COORDINATE THE LOCATION AND ELEVATION OF ALL F88L GTE AND IRRIGATION SERVICE LINES WITH RESPECTIVE AGENCY PRIOR TO CONSTRUCTION.
- ALL PROPOSED ELECTRICAL AND COMMUNICATION SERVICES ARE TO BE LOCATED UNDERGROUND AS DIRECTED BY RESPECTIVE AGENCY.
- CURBING AT SIDEWALK INTERSECTIONS TO BE RECESSED FOR PEDESTRIAN RAMPS. RAMPS TO BE CONSTRUCTED AT TIME OF CURB RADI.
- CONTRACTOR TO OBTAIN APPLICABLE PERMITS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND ISSUANCE OF ALL COMMENCEMENT AND/OR PROGRESS NOTICES TO GOVERNMENTAL AGENCIES DURING THE COURSE OF CONSTRUCTION, AS REQUIRED FOR INSPECTION, TESTING AND TRACKING PER APPLICABLE AGENCY PERMIT CONDITIONS.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL PERMIT CONDITIONS AND STIPULATIONS FOR ALL LOCAL, REGIONAL AND STATE AGENCIES, INCLUDING, BUT NOT LIMITED TO, FINAL SITE PLANS, UTILITIES, DRAINAGE, FUGITIVE PARTICULATES AND EROSION.
- ALL UTILITIES AND/OR DRAINAGE AS EXISTING WERE DERIVED FROM THE BEST AVAILABLE INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE ACTUAL LOCATION, SIZE, TYPE AND AMOUNT OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR TO NOTIFY SUNSHINE UNDERGROUND FACILITIES NOTIFICATION (1-800-432-4770), MCPWD AND F88L 48 HOURS MINIMUM PRIOR TO START OF CONSTRUCTION FOR POSSIBLE UTILITY LOCATIONS NOT SHOWN ON PLANS.
- RIGHT-OF-WAY USE PERMIT TO BE OBTAINED BY THE CONTRACTOR FOR OFF-SITE CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PRODUCTION OF REPRODUCIBLE RECORD DRAWINGS PRIOR TO SCHEDULING OF ANY UNDERGROUND UTILITY PRESSURE TESTS. CONTRACTOR SHALL HAVE OBTAINED (FROM A PROFESSIONAL SURVEYOR) ALL NECESSARY FIELD DATA REQUIRED FOR THE PRODUCTION OF RECORD DRAWINGS. SAID RECORD DRAWINGS ARE TO MEET THE REQUIREMENTS OF MANATEE COUNTY HEALTH DEPARTMENT & MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS AND FDOT. THE CONTRACTOR SHALL PROCESS SAID DRAWINGS THROUGH CITY OF BRADENTON AND UPON COMPLETION SHALL PROVIDE TWO REPRODUCIBLE MYLARS AND FIVE SETS OF PRINTS OF THE RECORD DRAWINGS, SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR TO THE ENGINEER. THESE RECORD DRAWINGS SHALL BE CERTIFIED TO THE OWNER, APPROPRIATE GOVERNMENTAL AGENCIES, AND ZNS ENGINEERING, L.C.
- IF CONSTRUCTION STAKEOUT IS PROVIDED BY THE OWNER, THE CONTRACTOR SHALL ACCURATELY RECORD THE LOCATION OF ALL WORK THAT MAY SUBSEQUENTLY BECOME CONCEALED OR INACCESSIBLE, AS WELL AS MARK OR EXPOSE UNDERGROUND FACILITIES AS NECESSARY TO FACILITATE THE PREPARATION OF THE RECORD DRAWINGS BY THE OWNER, AND PROVIDE SAID INFORMATION TO THE OWNER.
- ALL SIGN POLES ARE TO BE ROUND ALUMINUM POSTS.
- REFER TO FDOT INDEX 17721 FOR CONDUIT PAVEMENT TRENCH DETAILS ONLY.

UTILITY NOTES

- ALL CONSTRUCTION IS TO BE STAKED IN THE FIELD BY OR UNDER THE SUPERVISION OF A FLORIDA REGISTERED LAND SURVEYOR. RECORD DRAWINGS SHALL BE PROVIDED BY THE SURVEYOR.
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- WATERMANS ARE TO BE PIGMENTED, COLOR BLUE, DR.18, C900 OR C905 PVC. WATER SERVICES, WHERE LOCATED UNDER PAVEMENT, TO BE ENCASED IN ASTM 2241, SDR21 PVC. MAINTAIN A MINIMUM OF 36" COVER.
- RECLAIMED WATERMANS ARE TO BE PIGMENTED, COLOR LAVENDER, DR.18, C900 OR C905 PVC. MAINTAIN A MINIMUM OF 36" COVER.
- GRAVITY SANITARY SEWERS ARE TO BE PIGMENTED, COLOR GREEN, SDR 26, PVC AND CONFORMING TO ASTM D-3034. MAINTAIN A MINIMUM OF 36" COVER.
- F.A.C. 62.555.314 UTILITY SEPARATION STANDARDS WILL BE UTILIZED FOR CONSTRUCTION OF ALL NEW UTILITIES.
- CONTRACTOR IS RESPONSIBLE FOR ALL GOVERNMENTAL CONSTRUCTION FEES AND CHARGES. INSPECTIONS AND TESTING FEES, HOWEVER, IMPACT FEES (IF), IF APPLICABLE, TO BE PAID BY THE OWNER.
- TOPOGRAPHIC AND PROPERTY SURVEYS GIVING LOT SIZE, GROUND ELEVATIONS, OBSTRUCTIONS ON SITE, LOCATIONS AND DEPTHS OF SEWERS, CONDUITS, PIPES, EXISTING STRUCTURES, CURBS, PAVEMENTS, TRACTS, AND SOIL BORING DATA GIVING THE NATURE OF GROUND AND SUBSURFACE CONDITIONS HAVE BEEN OBTAINED FROM RELIABLE SOURCES. THE ACCURACY OF THIS DATA IS NOT GUARANTEED, AND IS FURNISHED SOLELY AS AN ACCOMMODATION TO THE CONTRACTOR. USE OF THIS DATA SHALL BE MADE AT THE CONTRACTOR'S DISCRETION. NO ADDITIONAL COMPENSATION WILL BE GRANTED DUE TO THE CONTRACTOR'S LACK OF KNOWLEDGE OF SITE CONDITIONS. PRIOR TO BID SUBMISSION, THE CONTRACTOR SHALL CONDUCT ANY ADDITIONAL SURVEYS AND SOILS TESTS NECESSARY TO VERIFY THE ACCURACY OF THE INFORMATION PROVIDED.

LEGEND



GENERAL NOTES

- THE SITE IS CURRENTLY ZONED C1A AND IS NOT VACANT.
- THE SITE IS DESIGNATED AS FLOOD ZONE B AND C ON F.I.R.M. PANEL #1201330309 C, DATED 7/15/92, AND IS NOT LOCATED WITHIN THE 100 YR FLOOD PLAIN.
- THERE ARE NO KNOWN IRRIGATION WELLS WITHIN THE PROJECT BOUNDARIES OF THIS PLAN.
- SANITARY SEWER, POTABLE WATER AND RECLAIM WATER WILL BE CONSTRUCTED TO MANATEE COUNTY STANDARDS AND PUBLICLY MAINTAINED.
- SEDIMENTATION AND EROSION CONTROL MEASURES WILL BE IN COMPLIANCE WITH MANATEE COUNTY CODE. TO PREVENT SEDIMENTARY RUNOFF DURING CONSTRUCTION, STAKED HAYBALS, STAKED Silt SCREENS OR INLET DEBRIS CONTROL SCREENS ARE TO BE PLACED AT STORM INLETS, CUTTAL LOCATIONS AND ADJACENT PROPERTY LINES AS REQUIRED PRIOR TO ANY CONSTRUCTION ACTIVITIES. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE SEDIMENTATION BARRIERS IN A WORKING MANNER FOR THE DURATION OF CONSTRUCTION AND SHOULD BE CHECKED DAILY. SITUATION ACCUMULATIONS GREATER THAN THE LESSER OF 12 INCHES OR ONE-HALF OF THE DEPTH OF THE SEDIMENTATION BARRIER SHALL BE IMMEDIATELY REMOVED AND REPLACED IN UPLAND AREAS. IN ADDITION TO SPECIFIED EROSION CONTROL LOCATIONS, THE CONTRACTOR SHALL PERFORM DAILY SITE INSPECTIONS FOR POTENTIAL EROSION PROBLEMS. IF PROBLEMS OCCUR, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING APPROPRIATE EROSION CONTROL. IMMEDIATELY, THE CONTRACTOR IS RESPONSIBLE FOR REMOVING TEMPORARY EROSION CONTROL DEVICES FOLLOWING COMPLETION OF ALL CONSTRUCTION AND FINAL STABILIZATION.

CONSTRUCTION NOTES

- CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES BEFORE CONSTRUCTION IS TO BEGIN.

SCHENKELSHULTZ
 ARCHITECTURE
 677 North Washington Blvd.
 Sarasota, FL 34236
 voice 941-952-5875
 fax 941-957-3630
 schenkelsultz.com
 SS Lic No - AA-C000937

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 PARAGRAPH 101 OF THE CONTRACT ACT, 11 F.L.A.C. CHAPTER 38, SECTIONS 38.01, 38.02, 38.03, 38.04, 38.05, 38.06, 38.07, 38.08, 38.09, 38.10, 38.11, 38.12, 38.13, 38.14, 38.15, 38.16, 38.17, 38.18, 38.19, 38.20, 38.21, 38.22, 38.23, 38.24, 38.25, 38.26, 38.27, 38.28, 38.29, 38.30, 38.31, 38.32, 38.33, 38.34, 38.35, 38.36, 38.37, 38.38, 38.39, 38.40, 38.41, 38.42, 38.43, 38.44, 38.45, 38.46, 38.47, 38.48, 38.49, 38.50, 38.51, 38.52, 38.53, 38.54, 38.55, 38.56, 38.57, 38.58, 38.59, 38.60, 38.61, 38.62, 38.63, 38.64, 38.65, 38.66, 38.67, 38.68, 38.69, 38.70, 38.71, 38.72, 38.73, 38.74, 38.75, 38.76, 38.77, 38.78, 38.79, 38.80, 38.81, 38.82, 38.83, 38.84, 38.85, 38.86, 38.87, 38.88, 38.89, 38.90, 38.91, 38.92, 38.93, 38.94, 38.95, 38.96, 38.97, 38.98, 38.99, 39.00, 39.01, 39.02, 39.03, 39.04, 39.05, 39.06, 39.07, 39.08, 39.09, 39.10, 39.11, 39.12, 39.13, 39.14, 39.15, 39.16, 39.17, 39.18, 39.19, 39.20, 39.21, 39.22, 39.23, 39.24, 39.25, 39.26, 39.27, 39.28, 39.29, 39.30, 39.31, 39.32, 39.33, 39.34, 39.35, 39.36, 39.37, 39.38, 39.39, 39.40, 39.41, 39.42, 39.43, 39.44, 39.45, 39.46, 39.47, 39.48, 39.49, 39.50, 39.51, 39.52, 39.53, 39.54, 39.55, 39.56, 39.57, 39.58, 39.59, 39.60, 39.61, 39.62, 39.63, 39.64, 39.65, 39.66, 39.67, 39.68, 39.69, 39.70, 39.71, 39.72, 39.73, 39.74, 39.75, 39.76, 39.77, 39.78, 39.79, 39.80, 39.81, 39.82, 39.83, 39.84, 39.85, 39.86, 39.87, 39.88, 39.89, 39.90, 39.91, 39.92, 39.93, 39.94, 39.95, 39.96, 39.97, 39.98, 39.99, 40.00

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 voice 941.748.8080
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ENGINEERING PLAN



GENERAL NOTES

- SIDEWALK SHALL BE CONSTRUCTED A MINIMUM OF 4" THICK, USING 3000 PSI CONCRETE. WHERE SIDEWALK BISECTS A DRIVEWAY, THE MINIMUM SHALL BE 6" OF CLASS I CONCRETE REINFORCED WITH 6"x6" #10 WIRE MESH.
* SEE SHEETS #101.2 & 101.3.
- ALL SIDEWALKS SHALL BE CONSTRUCTED TO THE SPECIFICATIONS OF THE MANATEE COUNTY LAND DEVELOPMENT CODE, SECTION 722. A MINIMUM (5) FOOT WIDE SIDEWALK SHALL BE INSTALLED ALONG THE NORTH AND WEST SIDES OF ALL NEW LOCAL STREETS WHICH ARE CONSTRUCTED IN CONJUNCTION WITH A NEW RESIDENTIAL DEVELOPMENT. A SIDEWALK A MINIMUM OF (5) FEET IN WIDTH SHALL BE INSTALLED ON BOTH SIDES OF ALL THROUGHFARES. REFER TO F.D.O.T. ROADWAY AND TRAFFIC STANDARDS, LATEST REVISION FOR CURB CUT RAMP SPECIFICATIONS.
- THE CONCRETE SHALL BE GIVEN A BROOM FINISH. THE SURFACE VARIATIONS SHALL NOT BE MORE THAN 1/4" UNDER A TEN FOOT STRAIGHTEDGE, NOR MORE THAN 1/8" ON A FIVE-FOOT TRAVERSE SECTION. THE EDGE OF THE SIDEWALK SHALL BE CAREFULLY FINISHED WITH AN EDGING TOOL HAVING A RADIUS OF 1/2".
- EXPANSION JOINT: EXPANSION JOINTS BETWEEN THE SIDEWALKS AND THE CURB OR DRIVEWAY OR AT FIXED OBJECTS AND SIDEWALK INTERSECTIONS SHALL BE 1/2" MATERIAL SHALL MEET THE REQUIREMENTS OF AASHTO M153 OR AASHTO M213. FOR LONG POORS, AN EXPANSION JOINT SHALL BE PLACED AT INTERVALS NOT TO EXCEED 120'.
- CONTRACTION JOINTS:
OPEN TYPE JOINTS
OPEN TYPE CONTRACTION JOINTS SHALL BE FORMED BY STAKING A METAL BULKHEAD IN PLACE AND DEPOSITING THE CONCRETE ON BOTH SIDES. AFTER THE CONCRETE HAS SET SUFFICIENTLY TO PRESERVE THE WIDTH AND THE SHAPE OF THE JOINT, THE BULKHEAD SHALL BE REMOVED. AFTER THE SIDEWALK HAS BEEN FINISHED OVER THE JOINT, THE SLOT SHALL BE FINISHED WITH A TOOL HAVING A 1/2" RADIUS.
SAWED JOINTS
A SLOT APPROXIMATELY 3/16" WIDE AND NOT LESS THAN 1" DEEP AT 10' CENTERS SHALL BE CUT WITH A CONCRETE SAW AFTER THE CONCRETE HAS SET.
- SIDEWALKS ALONG OTHER STREETS SHALL BE CONSTRUCTED AND DEDICATED AS REQUIRED BY THE APPROVING AUTHORITY WHEN NECESSARY TO CONTINUE AN EXISTING OR PROPOSED SIDEWALK.
- HANDICAP RAMPS SHALL MEET FLORIDA ACCESSIBILITIES STANDARDS, AND SECTIONS 301.0, 301.1 AND 301.2.
- ALL SIDEWALKS ON R/W WITHIN 10' OF AN EXISTING OR PROPOSED TREE THAT WILL EXCEED 6" IN DIAMETER AT MATURITY SHALL BE 5" THICK AND CONTAIN 2-#3 REBAR CENTERED VERTICALLY AND SPACED 3' ON CENTER. PALMS ARE NOT CONSIDERED TREES.

*NOTE: FOR COMPLETE SIDEWALK DETAILS, SEE F.D.O.T. DESIGN STANDARDS, 2006 EDITION, INDEX 304, SHEETS 1 THROUGH 6 AND INDEX 310, SHEETS 1 & 2.

MANATEE COUNTY TRANSPORTATION DEPARTMENT		SIDEWALKS GENERAL NOTES	301.0
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		

SECTION A-A
(SEE SHEET 301.0)

S.W. = SIDEWALK	"A"	S.W. + A + 10"	"X"	"B"
5'-0"	5.8'	5.8'	5'	5'
6'-0"	6.8'	6.8'	6'	6'
7'-0"	7.8'	7.3'	6.5'	6.5'
8'-0"	8.8'	7.3'	6.5'	6.5'
5'-2"	7.8'	7.8'	5'	5'
5'-2.5"	8.3'	8.1'	4.8'	4.8'
5'-3"	8.8'	8.2'	4.4'	4.4'
5'-3.5"	9.3'	8.4'	4.1'	4.1'
5'-4"	9.8'	8.6'	3.8'	3.8'
5'-4.5"	10.3'	8.7'	3.4'	3.4'
5'-5"	10.8'	9.1'	3.1'	3.1'

SECTION B-B
(SEE SHEET 301.0)

MANATEE COUNTY
TRANSPORTATION DEPARTMENT

**HANDICAPPED
RAMP SHEET 2**

302.2

*NOTE: FOR COMPLETE HANDICAP, PUBLIC SIDEWALK AND CURB RAMP DETAILS, SEE F.D.O.T. DESIGN STANDARDS, 2006 EDITION, INDEX 304, SHEETS 1 THROUGH 6.

MANATEE COUNTY TRANSPORTATION DEPARTMENT		CURB RAMP DETECTABLE WARNINGS	302.3
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		

PLAN VIEW

**TRUNCATED DOME
CURB RAMP DETAIL**

NOTES:

DETECTABLE WARNINGS ON WALKING SURFACES

THE DETECTABLE WARNING SHALL EXTEND THE FULL WIDTH AND DEPTH OF THE CURB RAMP.

DETECTABLE WARNINGS SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCH, A HEIGHT OF NOMINAL 0.2 INCH AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 INCH AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.

THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. DETECTABLE WARNINGS USED ON INTERIOR SURFACES SHALL DIFFER FROM ADJOINING WALKING SURFACES IN RESILIENCY OR SOUND-ON-CANE CONTACT.

THE MATERIAL USED TO PROVIDE CONTRAST SHOULD CONTRAST BY AT LEAST 70%. CONTRAST IN PERCENT IS DETERMINED BY:
CONTRAST = [(B1-B2)/B1] x 100

WHERE B1 = LIGHT REFLECTANCE VALUE (LRV) OF THE LIGHTER AREA AND B2 = LIGHT REFLECTANCE VALUE (LRV) OF THE DARKER AREA.

NOTE THAT IN ANY APPLICATION BOTH WHITE AND BLACK ARE NEVER ABSOLUTE; THUS, B1 NEVER EQUALS 100 AND B2 IS ALWAYS GREATER THAN 0.

MANATEE COUNTY TRANSPORTATION DEPARTMENT		CURB RAMP DETECTABLE WARNINGS	302.3
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		

**TYPE "D"
HIGH BACK CURB**

A) CLASS 1 CONCRETE, 3,000 P.S.I. AT 28 DAYS.

B) CURB SHALL MEET THE SPECIFICATIONS ESTABLISHED BY F.D.O.T. STANDARD SPECIFICATIONS PER F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS INDEX NO. 300, LATEST REVISION.

MANATEE COUNTY TRANSPORTATION DEPARTMENT		TYPE D CURB	201.4
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		

SECTION A-A

PLAN VIEW

NOTE: DIMENSIONS "D" & "G" PER SECTION 202.0

- ALTERNATE C.I. GRATES, 18"x 24", 24"x 24", 28"x 36" OR ACCESS COVER (202.6).
- 8" TRAFFIC BEARING LID W/ REINFORCING C.I. RING & DOUBLE ROW OF #4 REBAR.
- FOLLOWING MATERIALS ARE SPECIFIED IN FLORIDA D.O.T. SPECS., 2000. SEC 346 CONCRETE, SEC 962-B IRON CASTING, SEC 931-1 REINFORCED STEEL.
- FILL BLOCKS WITH 3,000 P.S.I. CONCRETE (EACH CELL), USE #4 ROD IN EACH BLOCK, 16" O/C.
- USE #4 ROD ON 6" CENTERS BOTH WAYS ON LID. (SEE 202.3 E)
- SEE SHEET # 202.0 GENERAL NOTES AND DIMENSIONS INDEX, ALSO SHEET 202.1 TYP. CONC. BOX.
- INVERT TO BE GROUTED (SEE 202.1).
- PRECAST BOXES AS SPECIFIED IN F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS ARE AN ACCEPTABLE ALTERNATIVE AS APPROVED BY THE TRANSPORTATION DIRECTOR OR HIS DESIGNEE.
- ANGLE BRACKETS SHOWN ON 202.1 NOT REQUIRED.

MANATEE COUNTY TRANSPORTATION DEPARTMENT		TRAFFIC BEARING BOX LID	202.5
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		

PLAN

SECTION

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

GRATE NOTES:

- ALL GRATES TO BE GALVANIZED STEEL.
- TRAFFIC BEARING GRATE TO BE U.S. FOUNDRY NO. 6611.
- NON-TRAFFIC BEARING GRATE TO BE U.S. FOUNDRY NO. 6606.
- GRATE TO BE CHAINED TO STRUCTURE PER F.D.O.T. SPECIFICATIONS.

MANATEE COUNTY TRANSPORTATION DEPARTMENT		TYPE "C" INLET DETAIL	N.T.S.
REV. BY	DATE		

**TYPICAL PAVEMENT MARKING
FOR HANDICAPPED PARKING SPACE**

TYPICAL STALL MARKINGS

NOTES:

- ALL LETTERS ARE 1" SERIES "C" PER M.U.T.C.D.
- TOP PORTION OF SIGN SHALL HAVE A HIGHLY REFLECTORIZED BLUE BACKGROUND WITH WHITE REFLECTORIZED LEGEND AND BORDER.
- BOTTOM PORTION OF SIGN SHALL HAVE A HIGHLY REFLECTORIZED WHITE BACKGROUND WITH BLACK OPAQUE LEGEND AND BORDER.
- ONE (1) SIGN REQUIRED FOR EACH PARKING SPACE.
- HEIGHT OF SIGN SHALL BE IN ACCORDANCE WITH SECTION 2A-23 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.).

HANDICAP PARKING DETAIL
N.T.S.

MANATEE COUNTY TRANSPORTATION DEPARTMENT		HANDICAP PARKING DETAIL	N.T.S.
REV. BY	DATE		

CONCRETE WHEEL STOP DETAIL
N.T.S.

PAVEMENT DETAIL
N.T.S.

NOTE:

- DETAIL FOR NEW PAVEMENT AREAS ONLY (NOT OVERLAY AREA.)
- REFER TO DUNKELBERGER ENGINEERING GEOTECHNICAL REPORT FOR PAVEMENT, BASE AND SUBGRADE SPECS AND ALTERNATIVES.

MANATEE COUNTY TRANSPORTATION DEPARTMENT		PAVEMENT DETAIL	N.T.S.
REV. BY	DATE		

SCHENKELSHULTZ
ARCHITECTURE

677 North Washington Blvd.
Sarasota, FL 34236
voice 941-952-5875
fax 941-957-3630
schenkelshultz.com
SS Lic No - AA-C000937

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ZNS ENGINEERING
201 5th Avenue Drive East
Bradenton, FL 34208
voice 941.748.8080
fax 941.748.3316
email zns@znseng.com

JEB C. MULOCK
PROFESSIONAL ENGINEER #54692

SIGNATURE

**Utilities
Maintenance and
Administration
Building**

4700 66th Street West
Bradenton, FL 34210

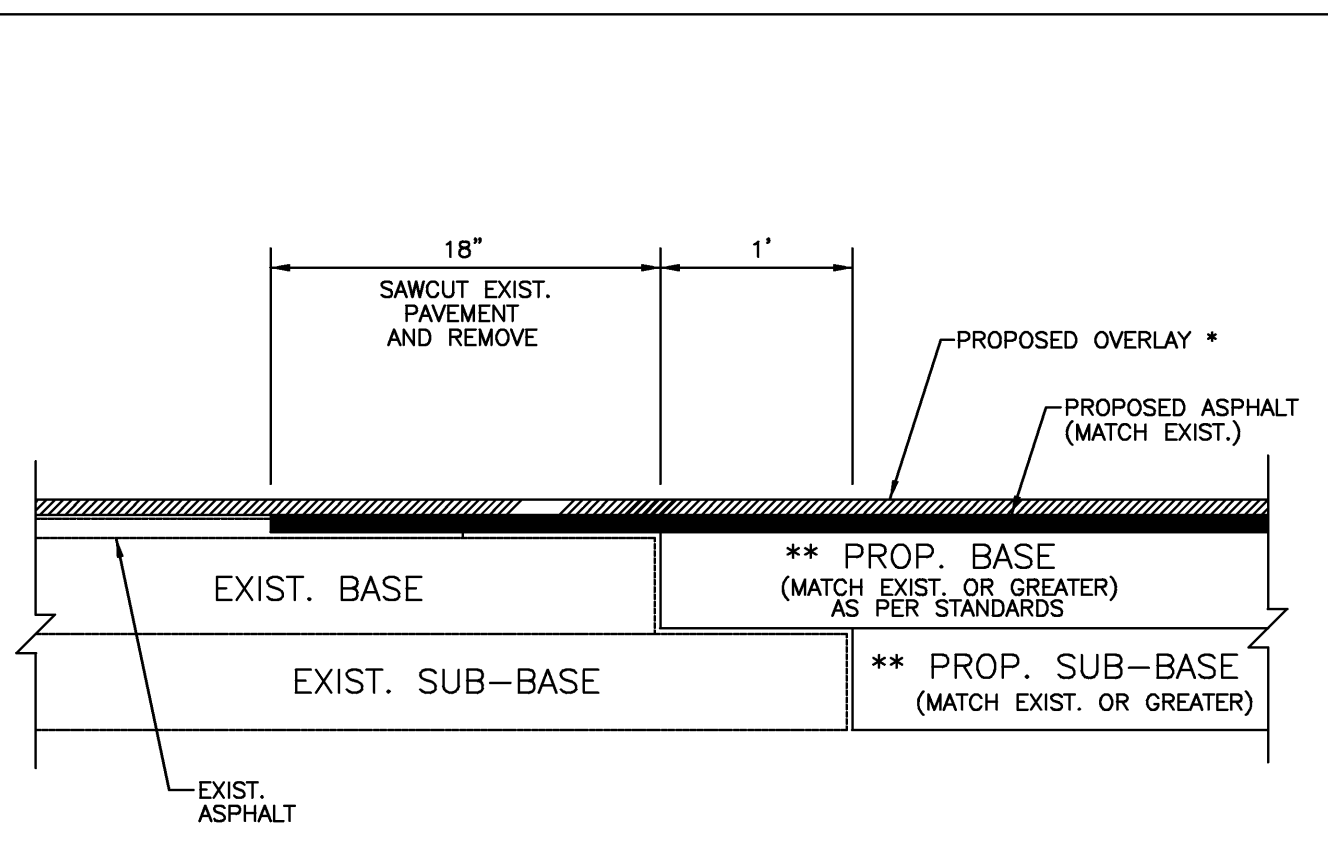
Client:
Manatee County Government
1112 Manatee Avenue West
Bradenton, FL 34208

drawn: RAM
checked:
date: 09.30.2010
comm. no.: 0920828

**DRAINAGE AND
GRADING DETAILS**

C4

100% Construction Documents



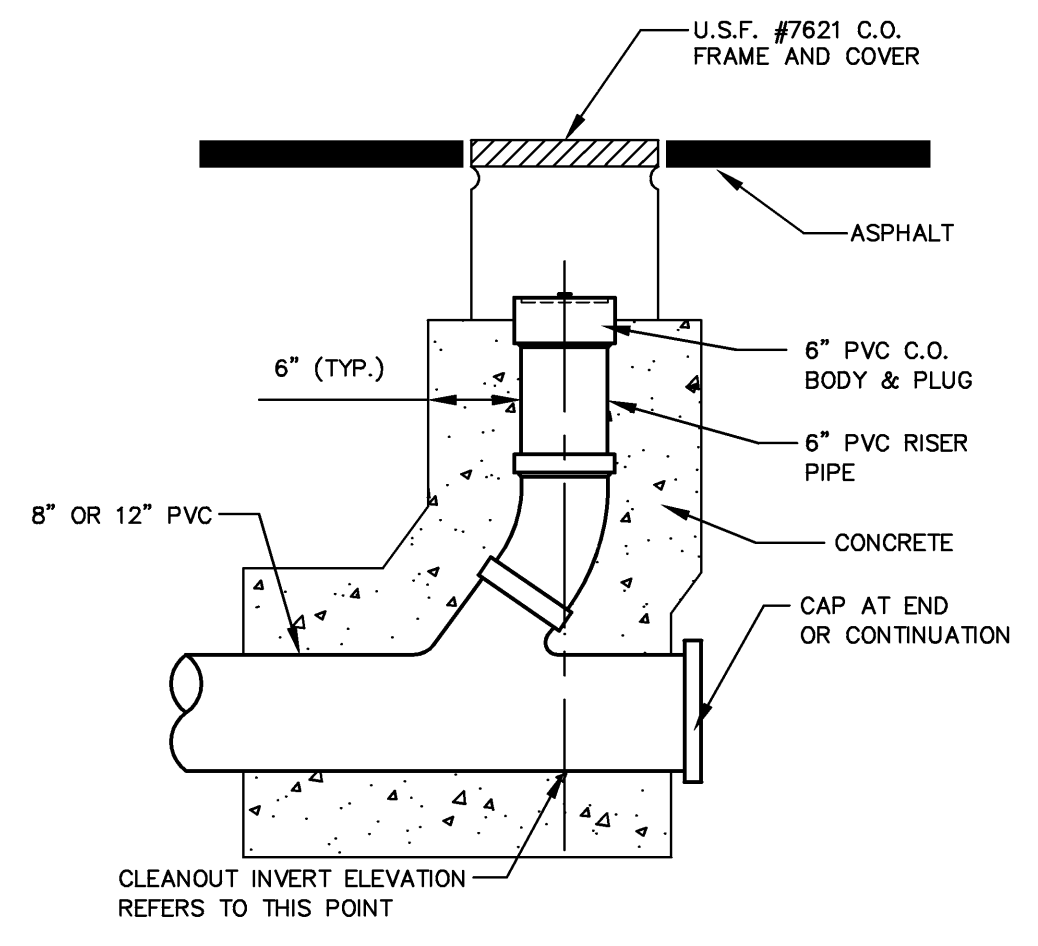
* NOTE: LIMITS OF OVERLAY - EDGE OF PAVEMENT TO EDGE OF PAVEMENT AND 25' BEYOND LIMITS OF CONSTRUCTION. OVERLAY SHALL 3/4" OF TYPE S ASPHALTIC CONCRETE.

** NOTE: CONNECTION TO OLDER (SUBSTANDARD THICKNESS) ROADS MAY REQUIRE THICKER PROPOSED BASE AND SUB-BASE TO MEET CURRENT STANDARDS.

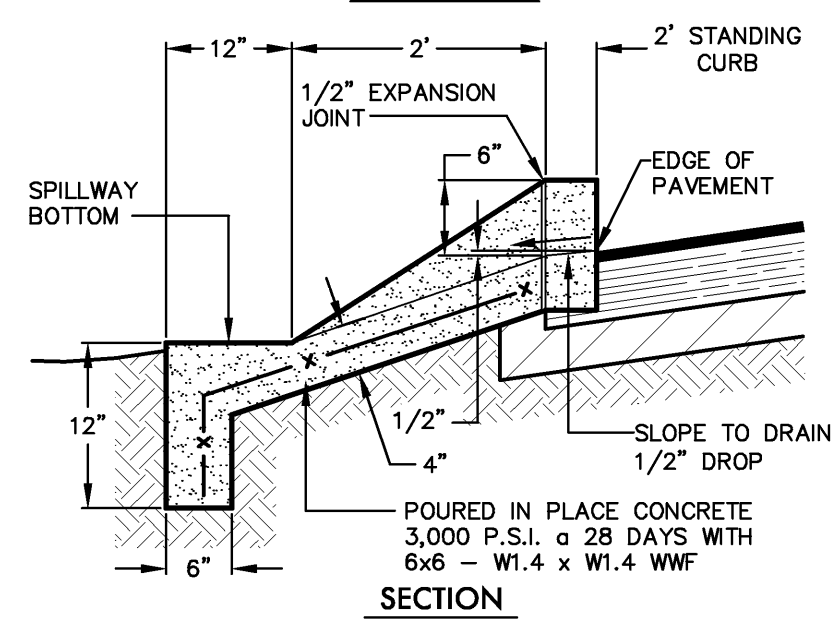
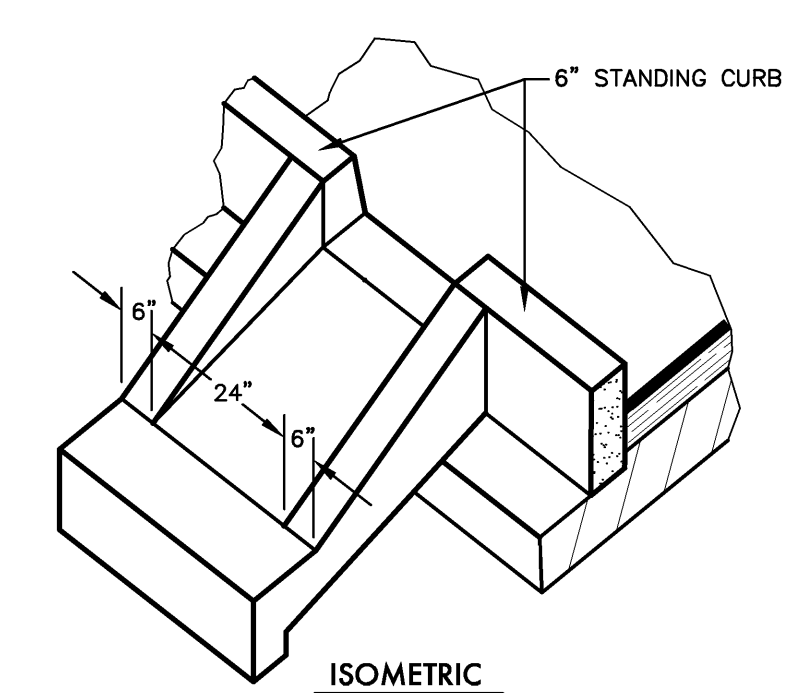
SIGNAGE AND MARKING PLAN SHALL ACCOMPANY CONSTRUCTION PLAN.

ROAD CONNECTION DETAIL
N.T.S.

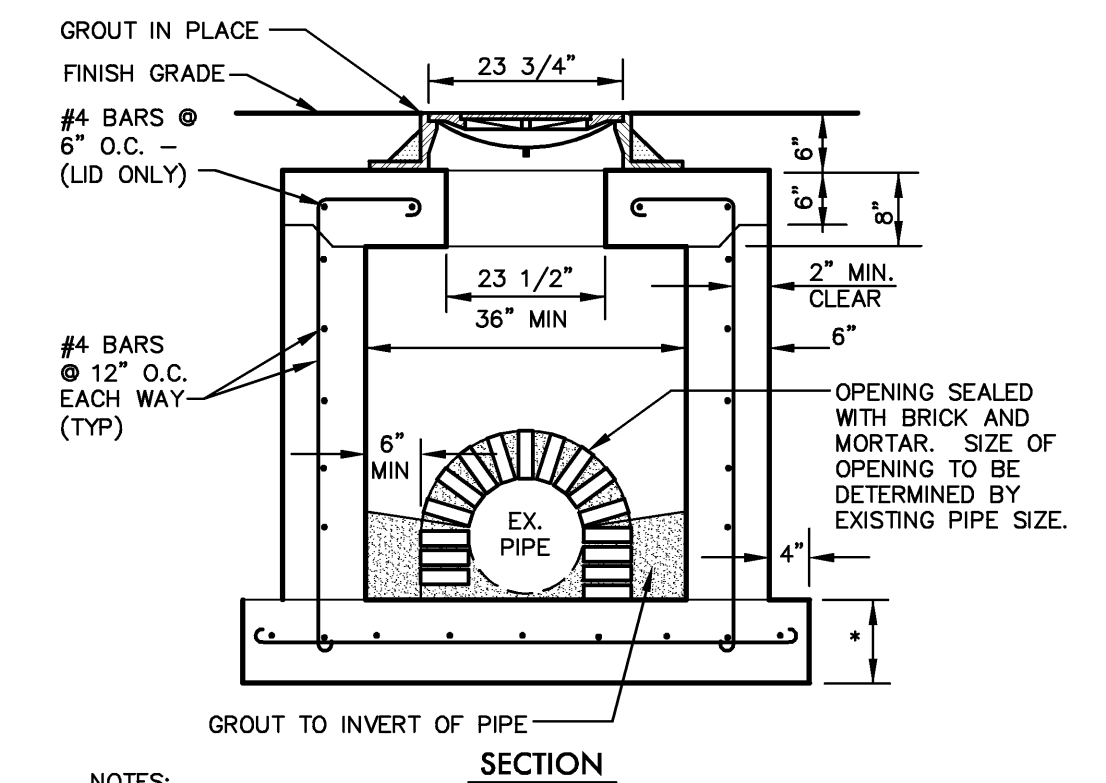
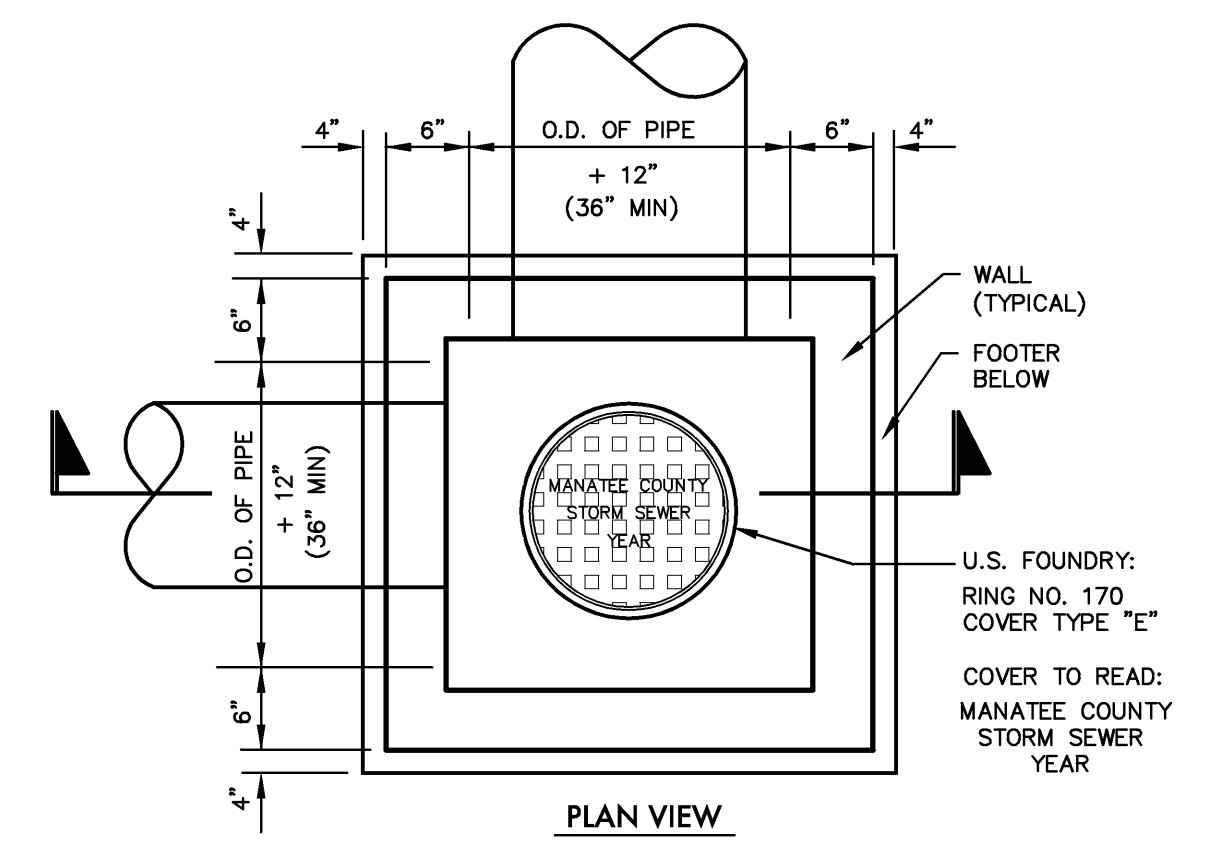
MANATEE COUNTY		ROAD CONNECTION DETAIL	403.3
TRANSPORTATION DEPARTMENT			
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		



ROOF DRAIN CLEANOUT DETAIL
N.T.S.



STANDING CURB CONCRETE SPILLWAY DETAIL
N.T.S.

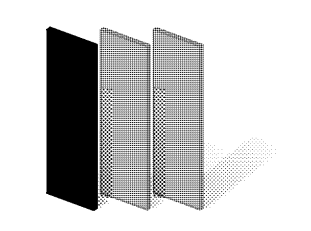


NOTES:

- CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION. SHOULD ANY VARIANCE OF THIS DETAIL BE NECESSARY.
- 6" BOTTOM SLAB = NOT TRAFFIC BEARING AREAS
- 8" BOTTOM SLAB = TRAFFIC BEARING AREAS

"DOG-HOUSE" JUNCTION BOX DETAIL
N.T.S.

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ZNS ENGINEERING
201 5th Avenue Drive East
Bradenton, FL 34208
voice 941.748.8080
fax 941.748.3316
email zns@znseng.com

JEB C. MULOCK
PROFESSIONAL ENGINEER #54692

Utilities Maintenance and Administration Building

4700 66th Street West
Bradenton, FL 34210

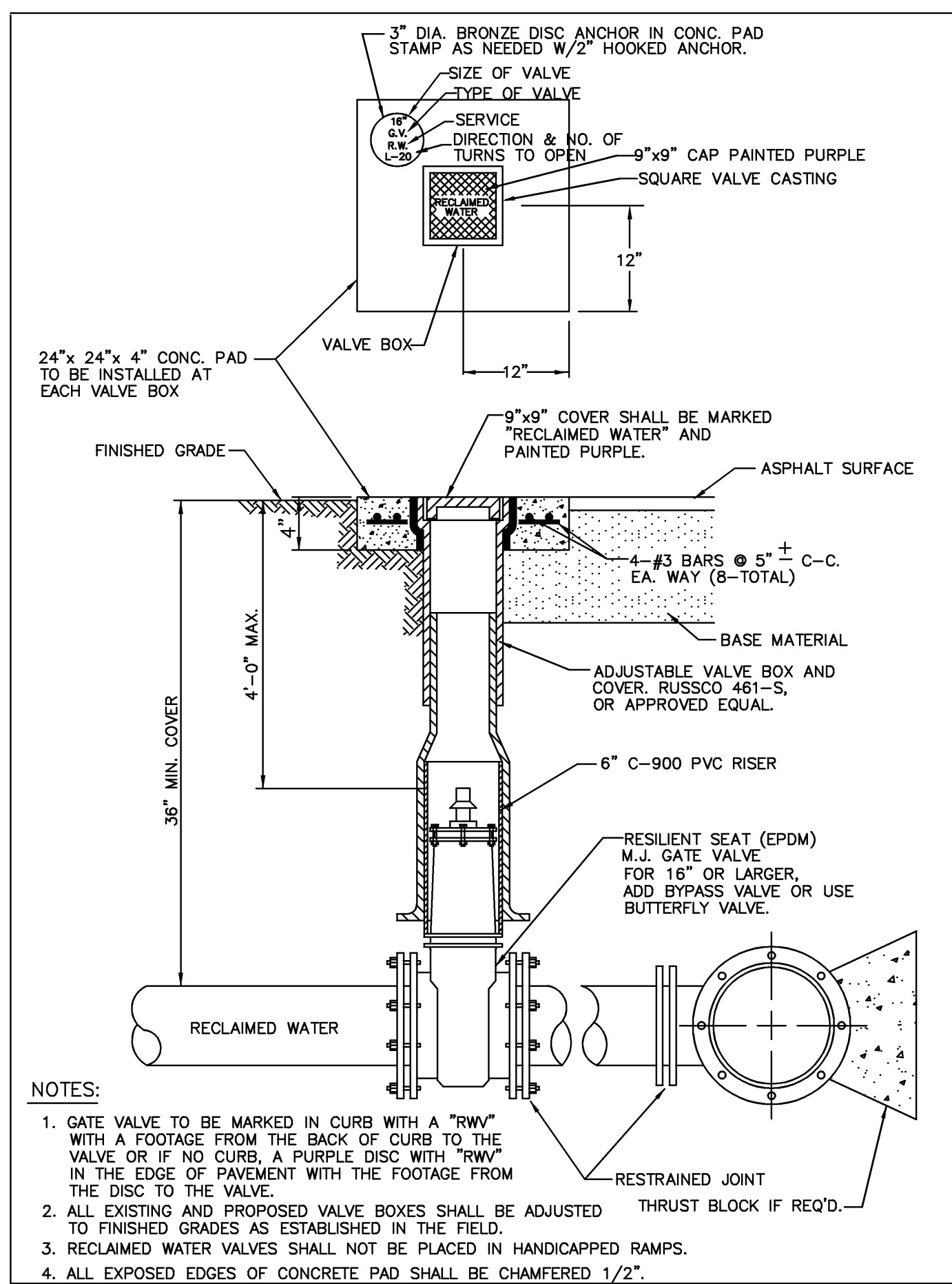
Client:

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Bradenton, FL 34208

drawn: RAM
checked:
date: 09.30.2010
comm. no.: 0920826

DRAINAGE AND GRADING DETAILS



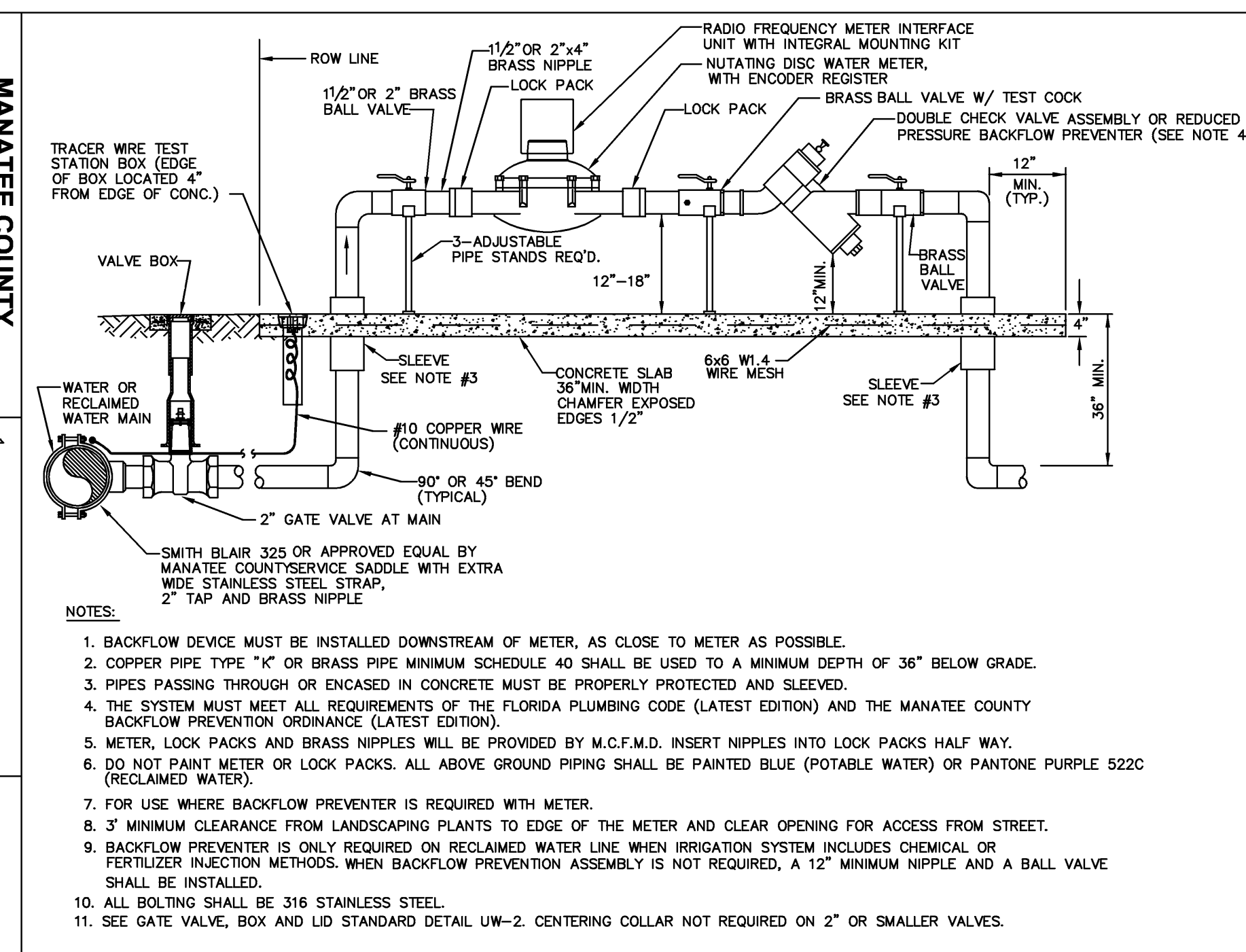


MANATEE COUNTY PUBLIC WORKS DEPARTMENT		GATE VALVE, BOX, COVER AND TAG	URW-4
REV. BY	DATE		
RTH	11/99	MARCH 18, 1997	DATE OF APPROVAL

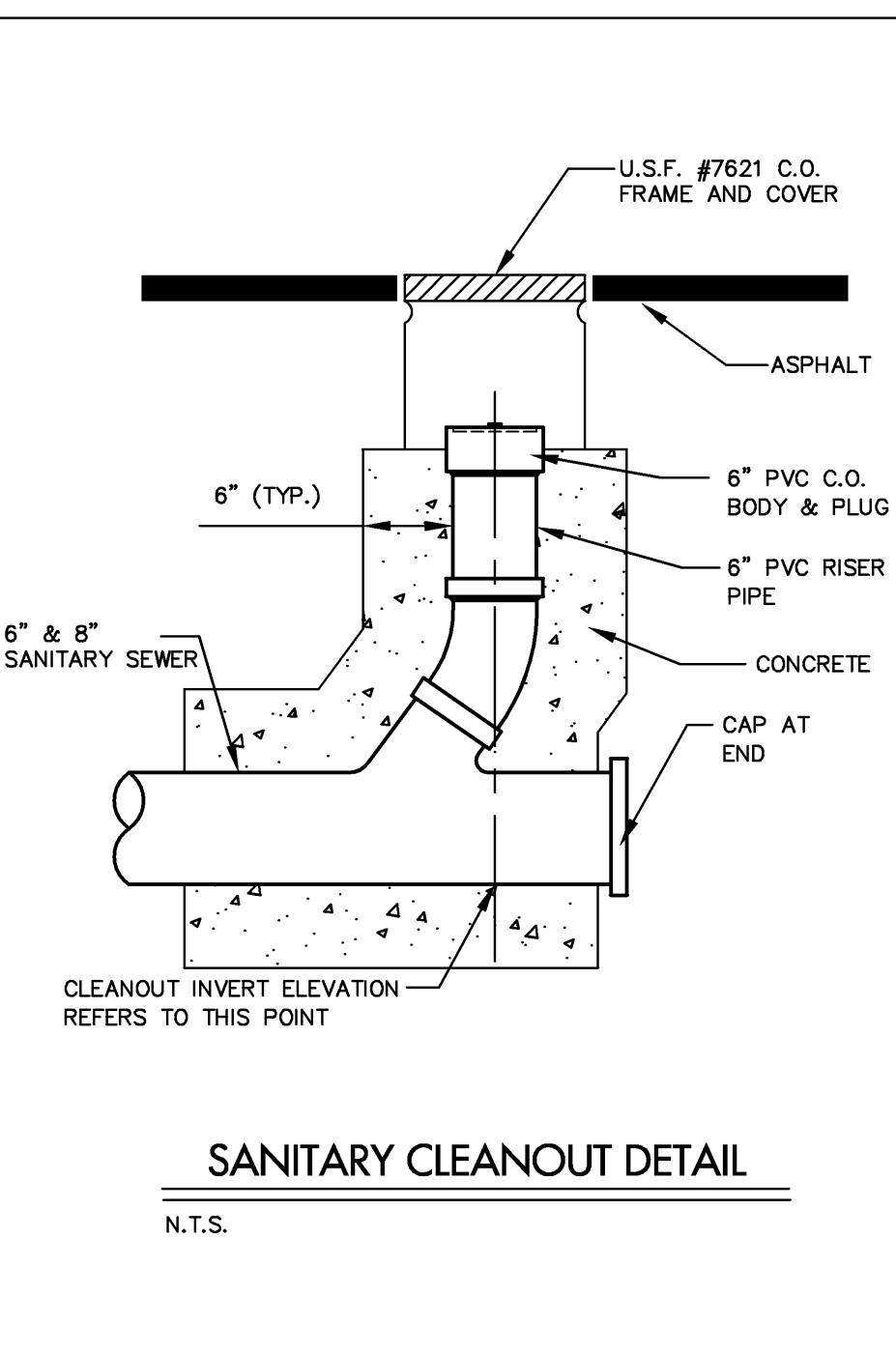
MANATEE COUNTY
PUBLIC WORKS DEPARTMENT
MARCH 17, 2009
DATE OF APPROVAL

**1 1/2" & 2" METER AND
BACKFLOW PREVENTER**

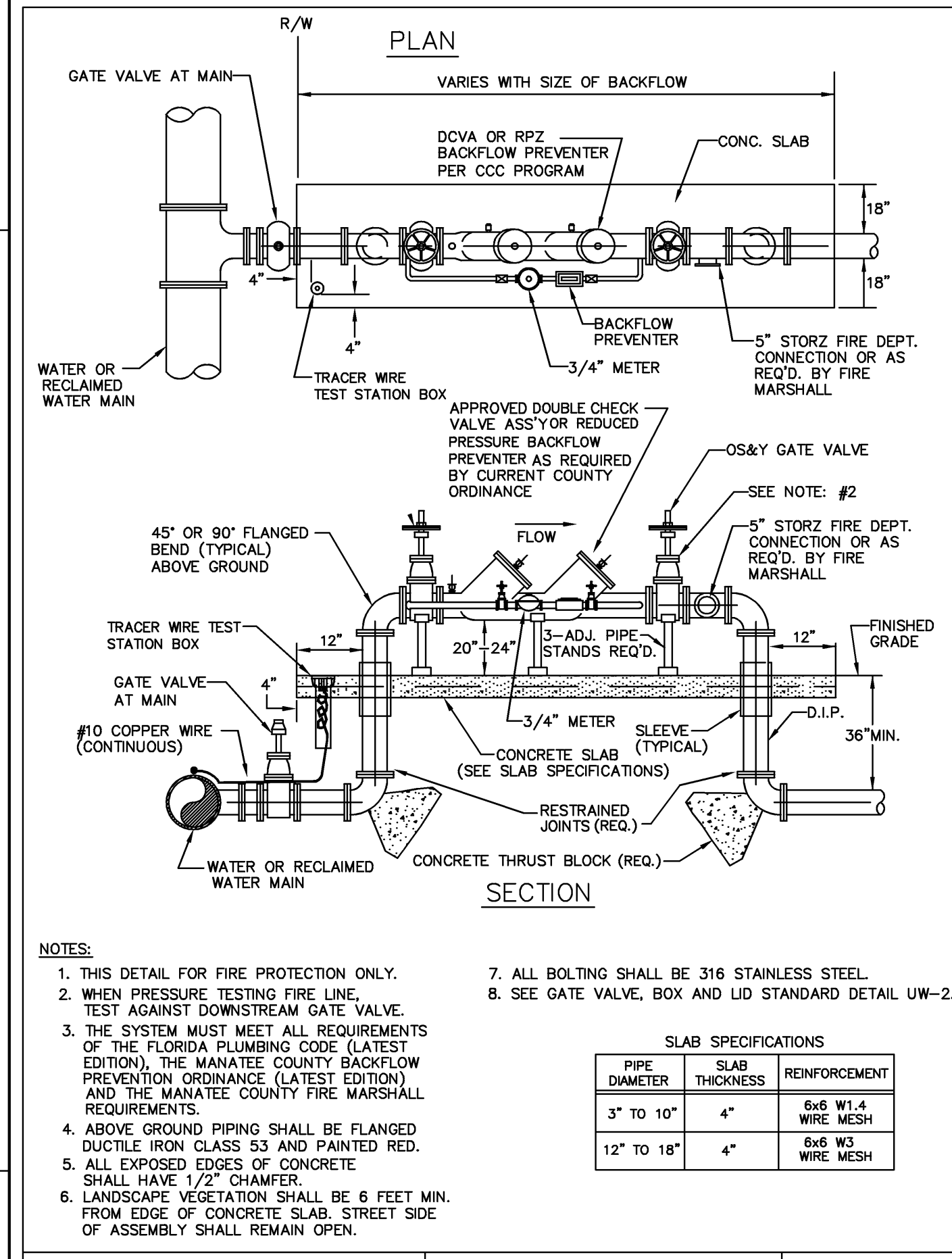
UW-13



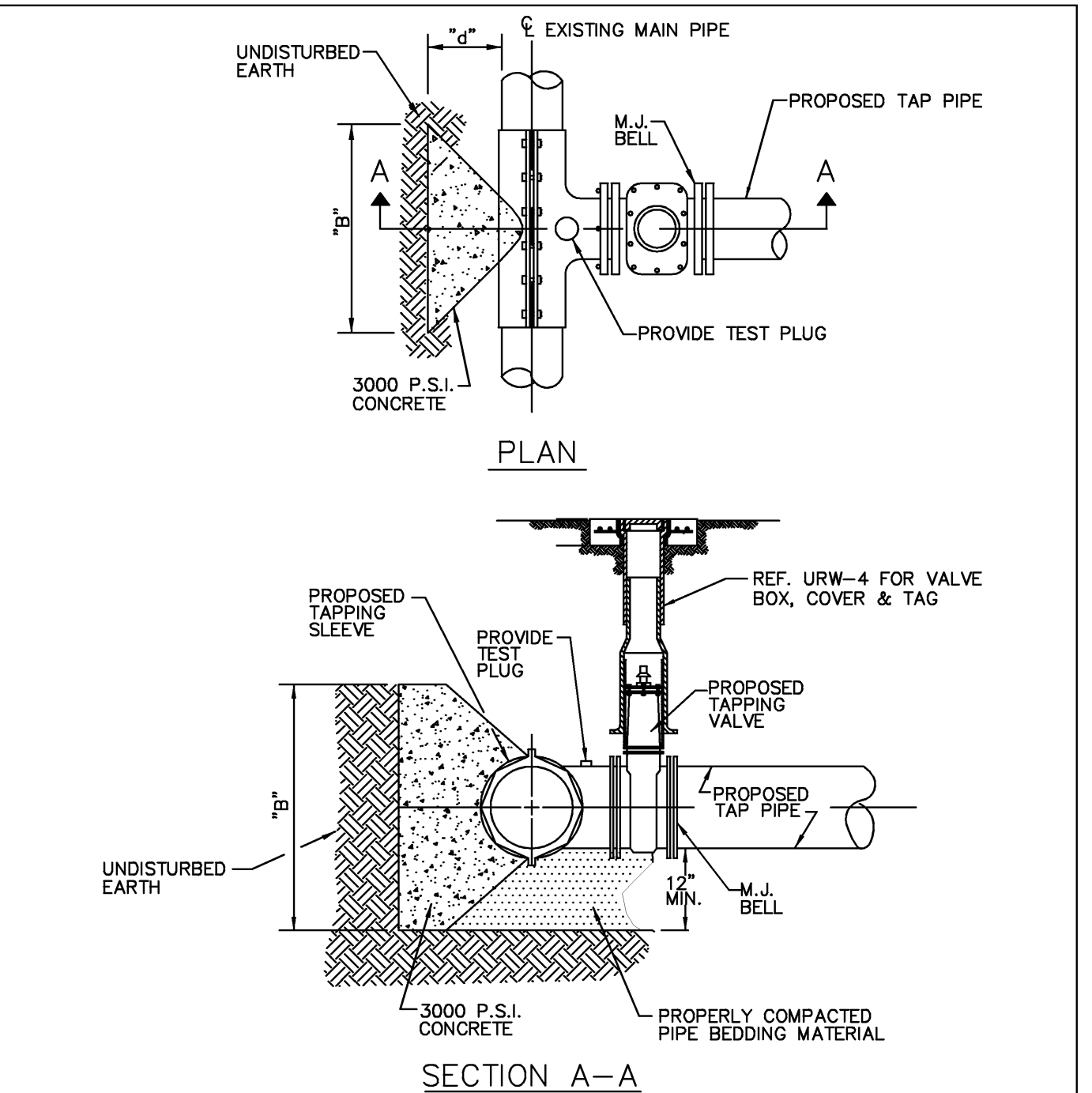
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		1 1/2" & 2" METER AND BACKFLOW PREVENTER	UW-13
REV. BY	DATE		
RTH	03/09	MARCH 17, 2009	DATE OF APPROVAL



MANATEE COUNTY PUBLIC WORKS DEPARTMENT		3" AND ABOVE FIRE LINE BACKFLOW PREVENTER	UW-14
REV. BY	DATE		
CLB/XE	02/05	MARCH 17, 2009	DATE OF APPROVAL
JAA/JB	10/08		
JAA/JEA	02/09		



MANATEE COUNTY PUBLIC WORKS DEPARTMENT		3" AND ABOVE FIRE LINE BACKFLOW PREVENTER	UW-14
REV. BY	DATE		
CLB/XE	02/05	MARCH 17, 2009	DATE OF APPROVAL
JAA/JB	10/08		
JAA/JEA	02/09		

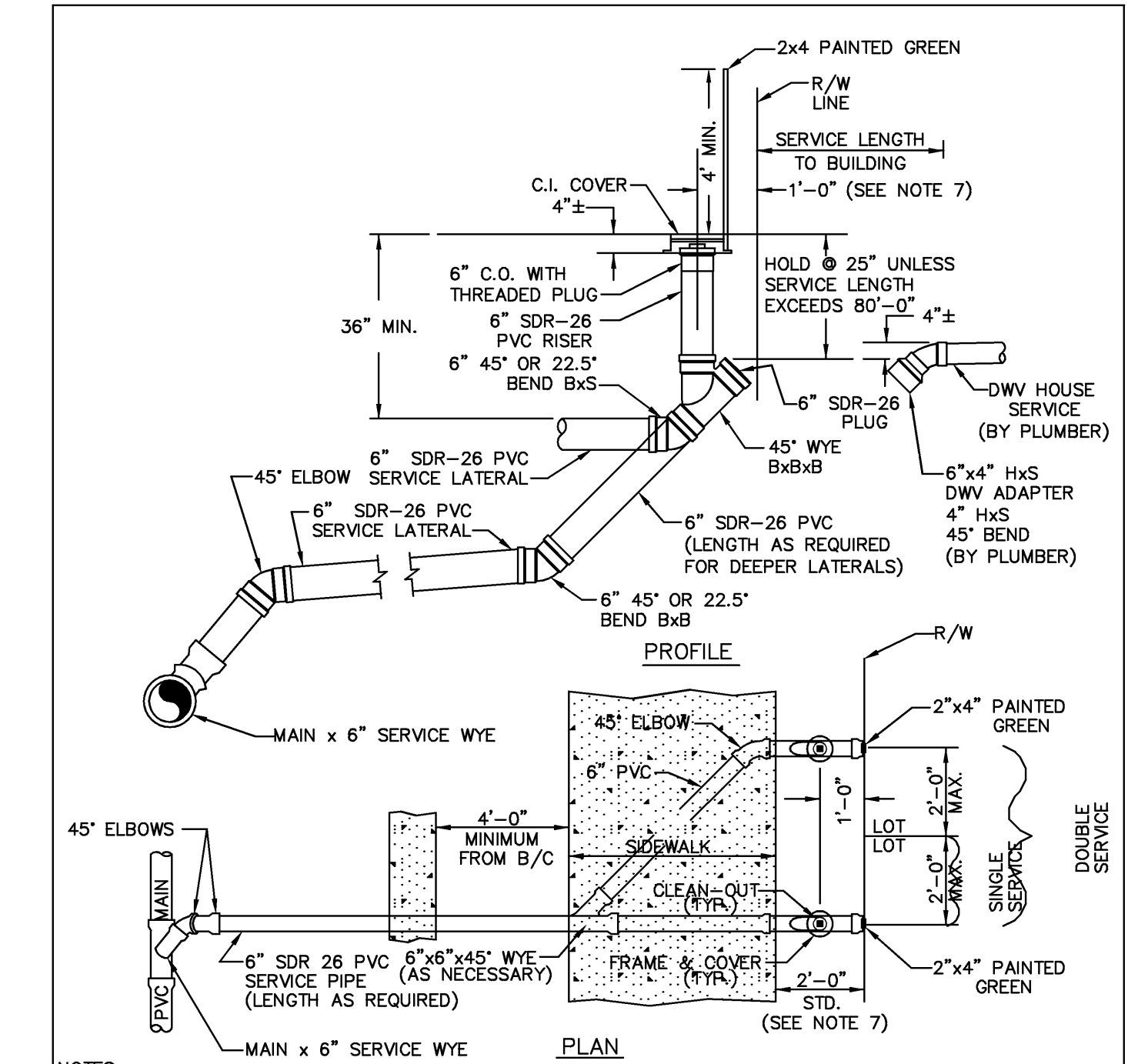


FOR DIMENSIONS "B" AND "d"
SEE URW-14; THRUST BLOCK DETAILS

NOTES:

- NO CUTS SHALL BE MADE BEFORE:
- ALL TAPS MUST BE OF A SMALLER SIZE THAN THE MAIN BEING TAPPED & PLACED NO CLOSER THAN 30" OR A DISTANCE EQUAL TO (1) MAIN PIPE DIAMETER PLUS (2) TAP PIPE DIAMETERS (WHICHEVER IS LARGER) FROM A JOINT OR FITTING.
- CONTRACTOR TO SUPPLY A DRY HOLE FOR TAPPING CREW TO WORK AND A BACK-HOE TO LOWER MACHINE INTO HOLE.

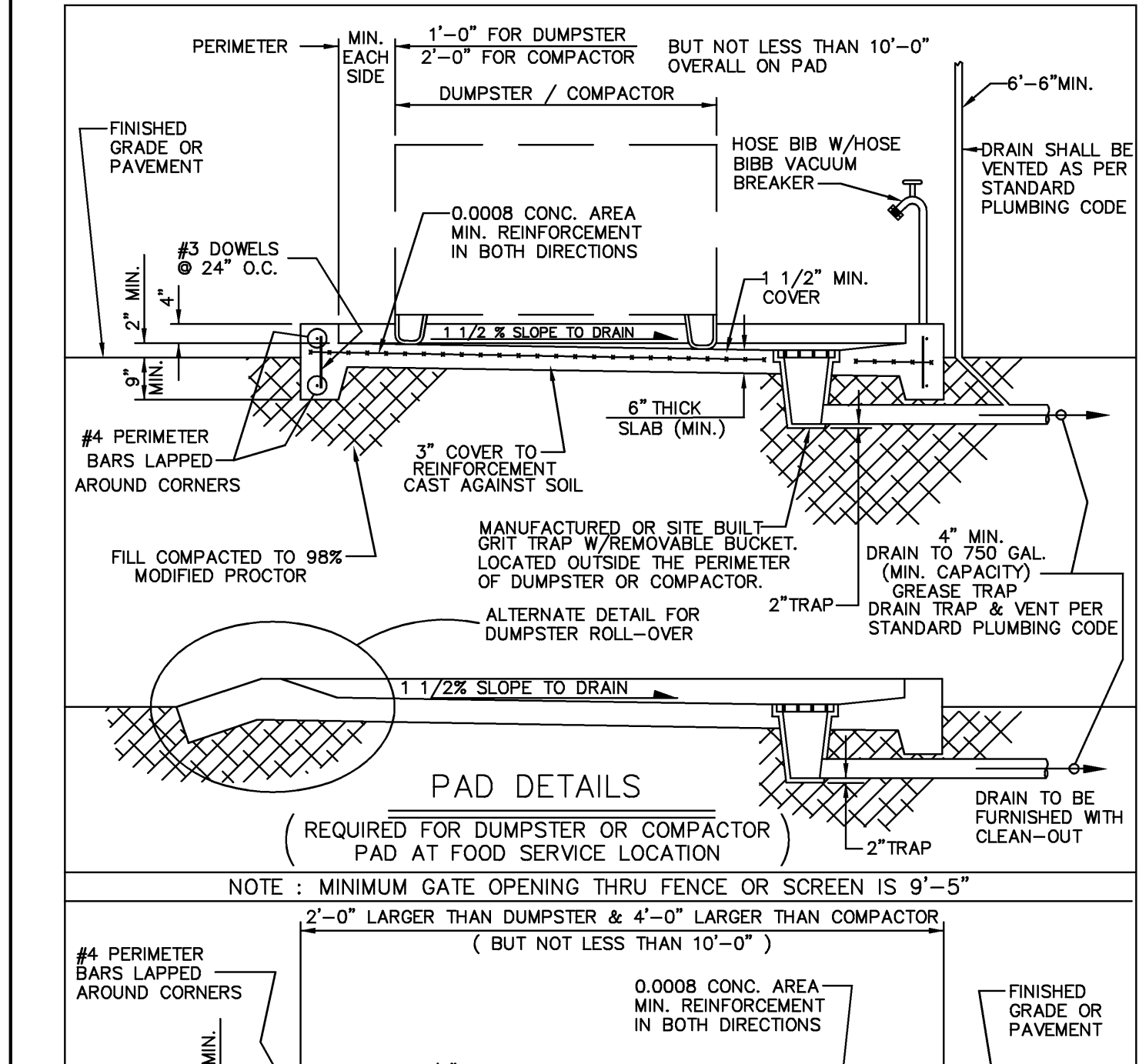
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TAPPING SLEEVE & VALVE BLOCKING DETAIL	URW-15
REV. BY	DATE		
RTH	11/99	MARCH 18, 1997	DATE OF APPROVAL



NOTES:

- RUBBER DONUTS ARE NOT TO BE USED.
- "SCQ" TO BE IMPRESSED INTO THE NEWLY-POURED CONCRETE CURB, ALONG WITH DISTANCE IN FEET TO THE CLEAN-OUT. IF NO CURB, INSTALL A GREEN DISC WITH "SCQ" AND A 1/8" x 1" GALVANIZED STEEL SCREW IN THE EDGE OF PAVEMENT WITH THE FOOTAGE FROM THE DISC TO THE CLEAN-OUT.
- SANITARY SEWER CLEAN-OUTS SHALL NOT BE LOCATED IN DRAINAGE SWALES, EASEMENTS, SIDEWALKS OR DRIVEWAYS.
- NO SERVICE CONNECTIONS TO BE MADE TO THE CLEAN-OUT RISER. ALL DOMESTIC CONNECTIONS SHALL BE MADE TO THE STUB-OUT PROVIDED.
- SEWER SERVICE SHALL BE 5' MIN. FROM WATER SERVICE OR FIRE HYDRANT.
- CLEAN-OUT THREADS SHALL BE ENTIRELY WRAPPED WITH TEFLON TAPE PRIOR TO ATTACHING THREADED PLUG.
- WHEN THE DISTANCE BETWEEN THE EDGE OF THE SIDEWALK & THE R/W LINE IS ONE FOOT (CUL-DE-SAC W/ MEDIAN) THE DISTANCE BETWEEN THE CENTER OF THE GO RISER & THE R/W LINE SHALL BE 6'.
- CLASS 1 CONCRETE W/ 3,000 P.S.I., 28 DAY COMPRESSIVE STRENGTH SHALL BE USED FOR SIDEWALK AND CURB. REFER TO MANATEE COUNTY HIGHWAY, TRAFFIC AND STORMWATER STANDARDS.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		SINGLE AND DOUBLE SERVICE CONNECTION	US-13
REV. BY	DATE		
CLB/XE	08/05	MARCH 17, 2009	DATE OF APPROVAL
JAA/JB	10/08		
JAA/JEA	02/09		



NOTES:

- DUMPSTER PAD SHALL BE CLASS 1 CONCRETE W/ MIN. COMP. STRENGTH f'c= 3000 P.S.I. & MIN. REINFORCEMENT STRENGTH f'm= 60,000 P.S.I.
- DUMPSTER PAD SHALL BE FENCED IN ACCORDANCE WITH THE MANATEE COUNTY LAND DEVELOPMENT CODE.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		COMPACTOR AND DUMPSTER PADS	US-14
REV. BY	DATE		
CLB/XE	08/05	MARCH 17, 2009	DATE OF APPROVAL
JAA/JB	10/08		
JAA/JEA	02/09		

SCHENKELSHULTZ
ARCHITECTURE

677 North Washington Blvd.
Sarasota, FL 34236
voice 941-952-5875
fax 941-957-3630
schenkelshultz.com
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ZNS ENGINEERING

201 5th Avenue Drive East
Bradenton, FL 34208
voice 941.748.8080
fax 941.748.3316
email zns@znseng.com

JEB C. MULOCK
PROFESSIONAL ENGINEER #54692

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Building**

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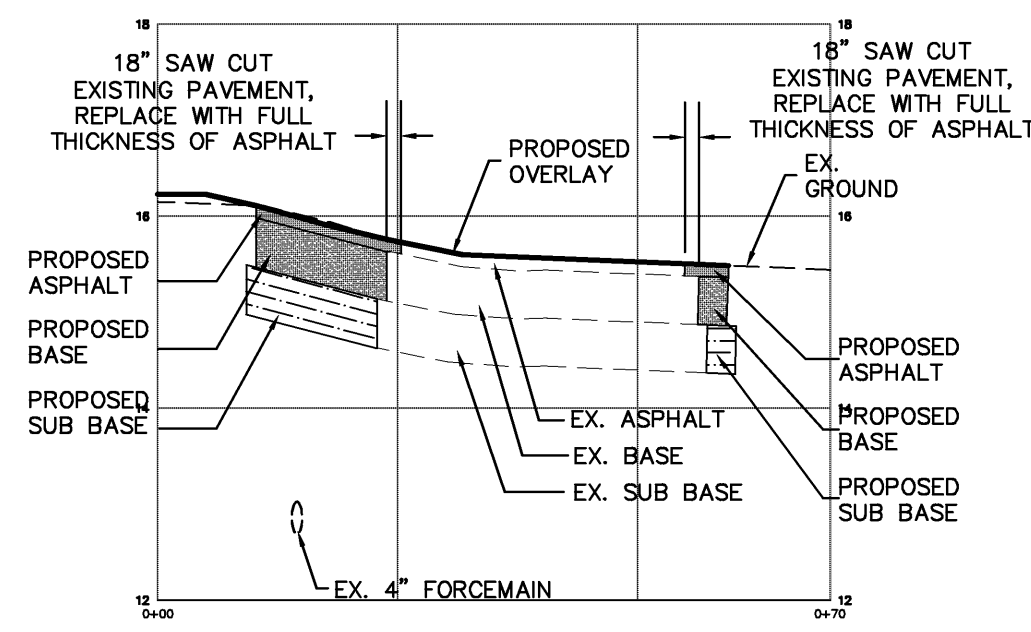
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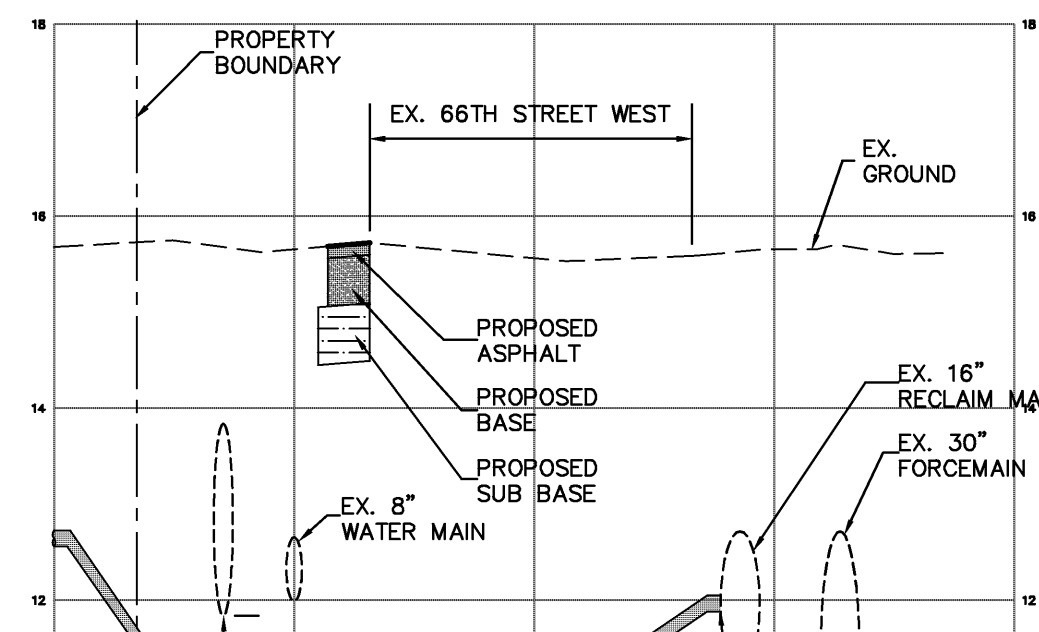
UTILITY DETAILS

C7



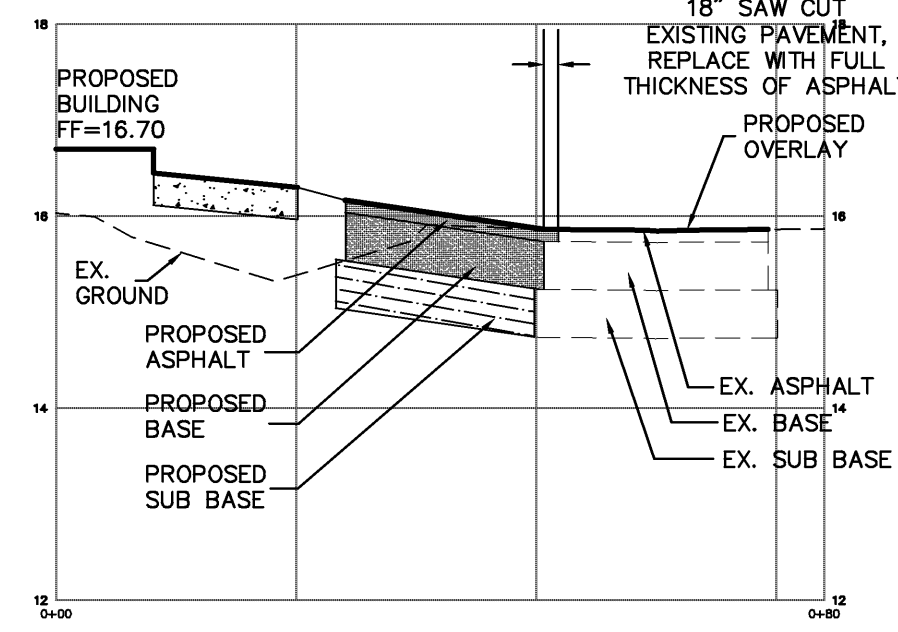
SECTION A-A

VERTICAL SCALE: 1" = 2'
HORIZONTAL SCALE: 1" = 20'



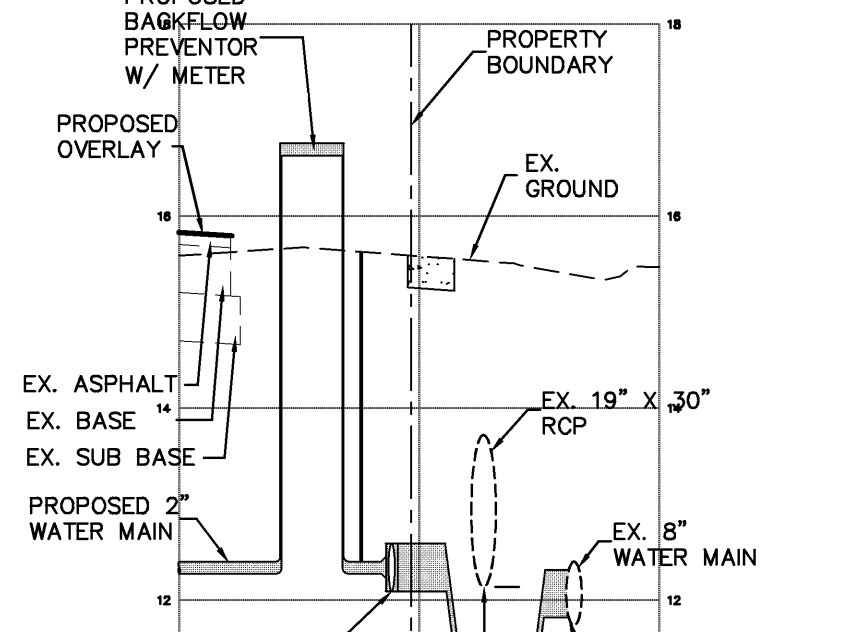
SECTION B-B

VERTICAL SCALE: 1" = 2'
HORIZONTAL SCALE: 1" = 20'



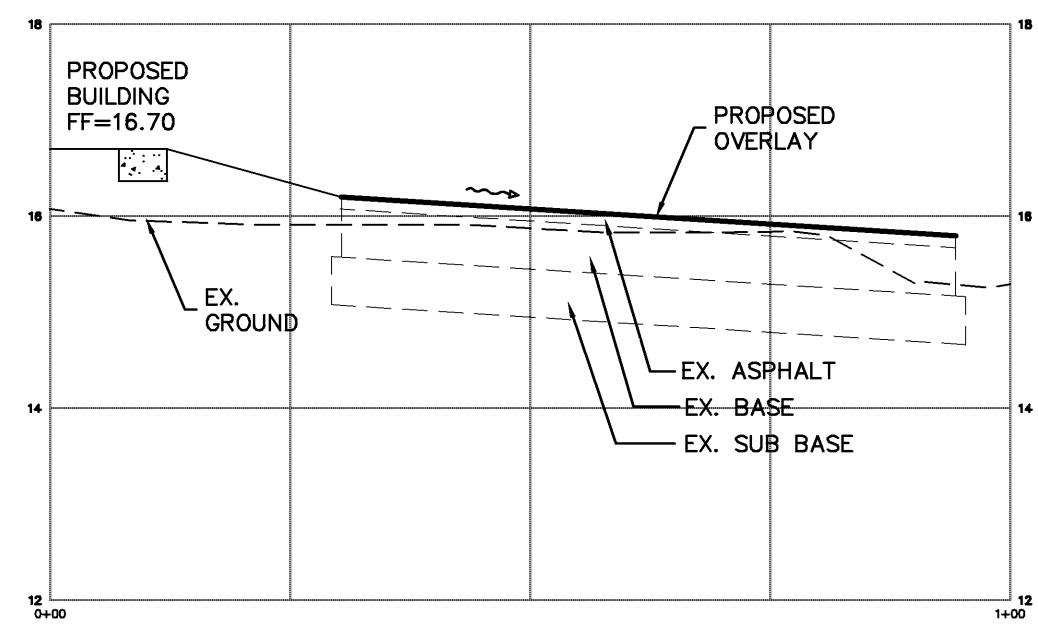
SECTION C-C

VERTICAL SCALE: 1" = 2'
HORIZONTAL SCALE: 1" = 20'



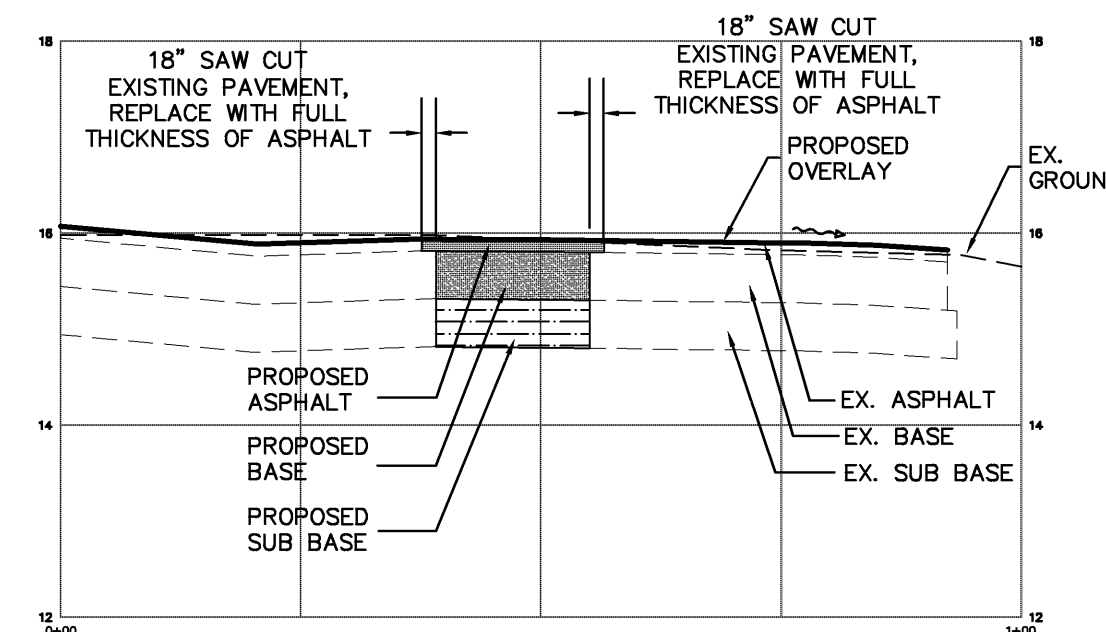
SECTION D-D

VERTICAL SCALE: 1" = 2'
HORIZONTAL SCALE: 1" = 20'



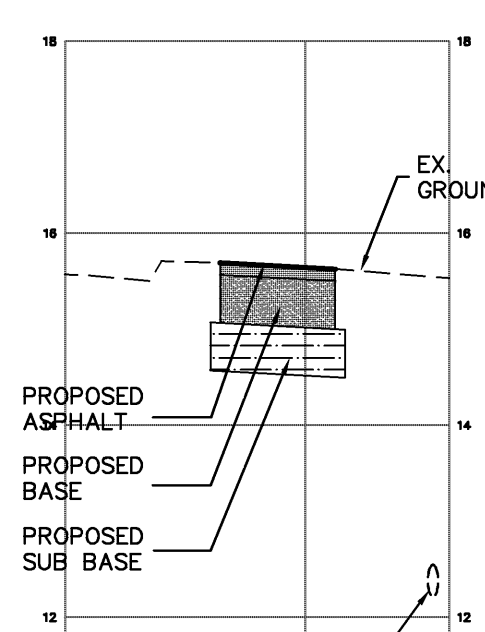
SECTION E-E

VERTICAL SCALE: 1" = 2'
HORIZONTAL SCALE: 1" = 20'



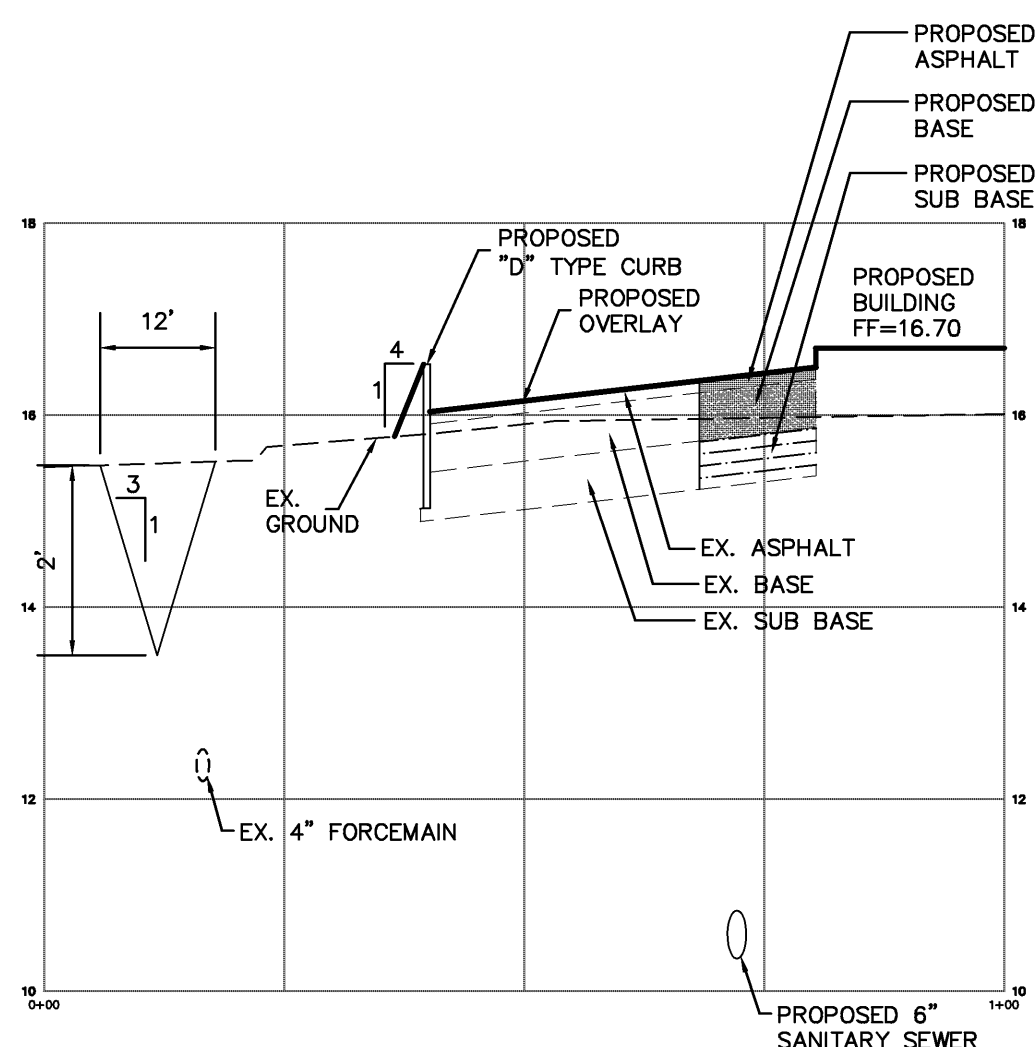
SECTION F-F

VERTICAL SCALE: 1" = 2'
HORIZONTAL SCALE: 1" = 20'



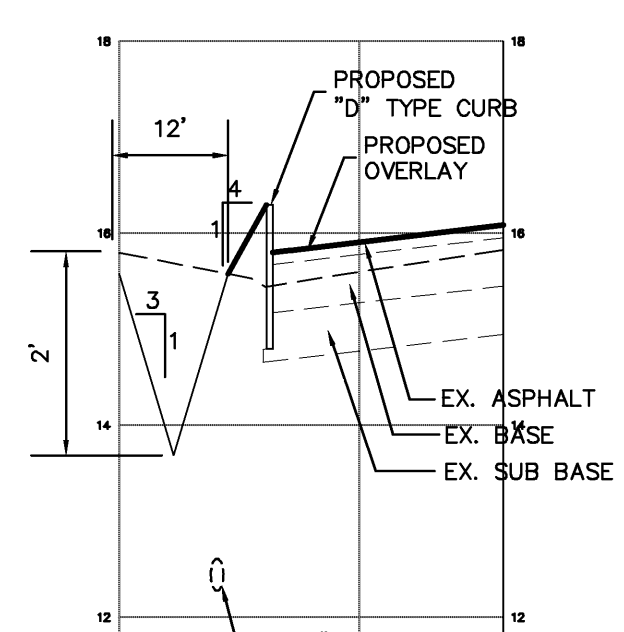
SECTION G-G

VERTICAL SCALE: 1" = 2'
HORIZONTAL SCALE: 1" = 20'



SECTION H-H

VERTICAL SCALE: 1" = 2'
HORIZONTAL SCALE: 1" = 20'



SECTION I-I

VERTICAL SCALE: 1" = 2'
HORIZONTAL SCALE: 1" = 20'