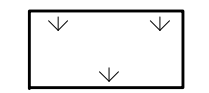
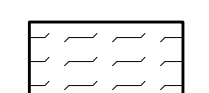
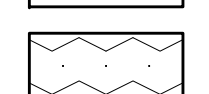


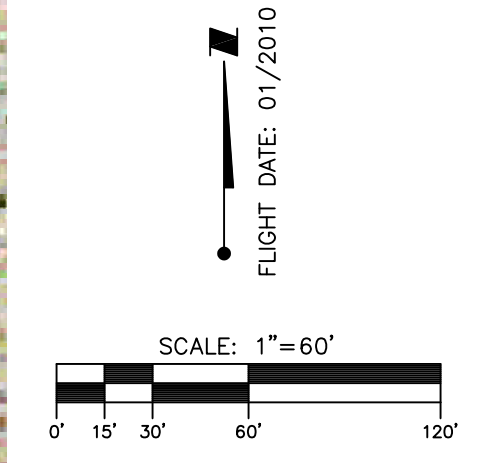




LEGEND

-  WETLAND
-  EXISTING POND
-  POND/DRY RETENTION AREA
-  OTHER SURFACE WATERS IMPACTS (0.02 AC)
-  EXISTING BUILDING



REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:
B	UPDATE BASE LINEWORK PER COUNTY COMMENTS	10/18/12	DJB/89366		
A	REVISED FLOODPLAIN COMPENSATION AREA	9/19/12	DJB/89366		

WilsonMiller Stantec

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Phone: 941-907-6900 • Fax: 941-907-6910
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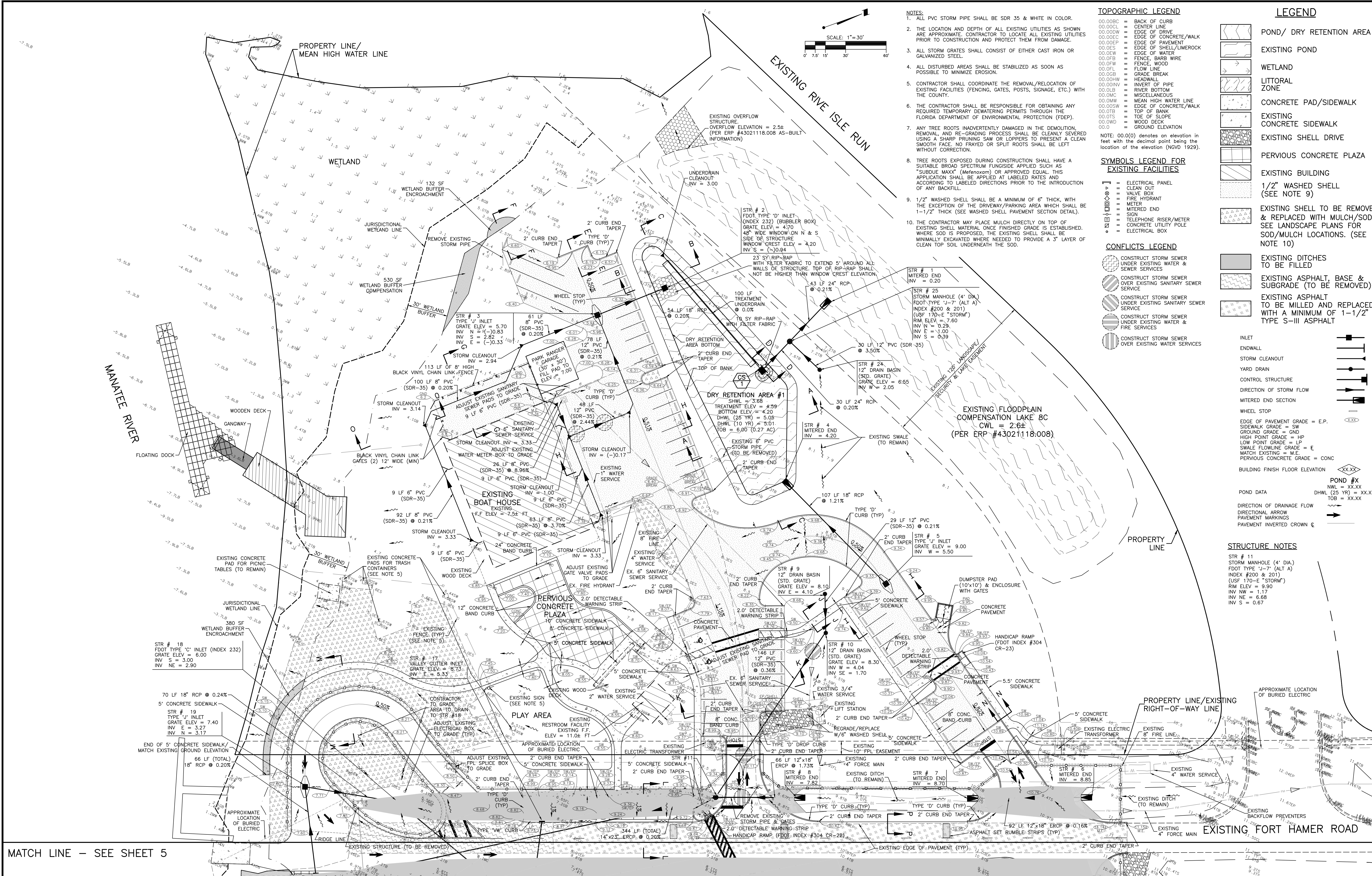
CLIENT: MANATEE BOARD OF COUNTY COMMISSIONERS
PROJECT: FT. HAMER PARK, PHASE II

DATE: NOVEMBER 2011
HORIZONTAL SCALE: 1"=60'
VERTICAL SCALE: N/A
SEC: 17R IGE: 345 19E

TITLE: AERIAL LOCATION MAP/KEY SHEET

PROJECT NUMBER: 215610582 220
SHEET NUMBER: 2 OF 13

DANIEL J. BOND, P.E.
FLORIDA LICENSE NO. 57969
INDEX NUMBER:
D-215610582-002



- NOTES:**
- ALL PVC STORM PIPE SHALL BE SDR 35 & WHITE IN COLOR.
 - THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AS SHOWN ARE APPROXIMATE. CONTRACTOR TO LOCATE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND PROTECT THEM FROM DAMAGE.
 - ALL STORM GRATES SHALL CONSIST OF EITHER CAST IRON OR GALVANIZED STEEL.
 - ALL DISTURBED AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE TO MINIMIZE EROSION.
 - CONTRACTOR SHALL COORDINATE THE REMOVAL/RELOCATION OF EXISTING FACILITIES (FENCING, GATES, POSTS, SIGNAGE, ETC.) WITH THE COUNTY.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY REQUIRED TEMPORARY DEWATERING PERMITS THROUGH THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP).
 - ANY TREE ROOTS INADVERTENTLY DAMAGED IN THE DEMOLITION, REMOVAL, AND RE-GRADING PROCESS SHALL BE CLEANLY SEVERED USING A SHARP PRUNING SAW OR LOPPERS TO PRESENT A CLEAN SMOOTH FACE. NO FRAYED OR SPLIT ROOTS SHALL BE LEFT WITHOUT CORRECTION.
 - TREE ROOTS EXPOSED DURING CONSTRUCTION SHALL HAVE A SUITABLE BROAD SPECTRUM FUNGICIDE APPLIED SUCH AS "SUBDU MAX" (Mefenoxam) OR APPROVED EQUAL. THIS APPLICATION SHALL BE APPLIED AT LABELED RATES AND ACCORDING TO LABELED DIRECTIONS PRIOR TO THE INTRODUCTION OF ANY BACKFILL.
 - 1/2" WASHED SHELL SHALL BE A MINIMUM OF 6" THICK, WITH THE EXCEPTION OF THE DRIVEWAY/PARKING AREA WHICH SHALL BE 1-1/2" THICK (SEE WASHED SHELL PAVEMENT SECTION DETAIL).
 - THE CONTRACTOR MAY PLACE MULCH DIRECTLY ON TOP OF EXISTING SHELL MATERIAL ONCE FINISHED GRADE IS ESTABLISHED. WHERE SOD IS PROPOSED, THE EXISTING SHELL SHALL BE MINIMALLY EXCAVATED WHERE NEEDED TO PROVIDE A 3" LAYER OF CLEAN TOP SOIL UNDERNEATH THE SOD.

- TOPOGRAPHIC LEGEND**
- 00.00BC = BACK OF CURB
 - 00.00CL = CENTER LINE
 - 00.00DW = EDGE OF DRIVE
 - 00.00EC = EDGE OF CONCRETE/WALK
 - 00.00EP = EDGE OF PAVEMENT
 - 00.00ES = EDGE OF SHELL/UMEROCK
 - 00.00EW = EDGE OF WATER
 - 00.00FB = FENCE, BARB WIRE
 - 00.00FW = FENCE, WOOD
 - 00.00FL = FLOW LINE
 - 00.00GB = GRADE BREAK
 - 00.00HW = HEADWALL
 - 00.00IN = INVERT OF PIPE
 - 00.00LB = RIVER BOTTOM
 - 00.00MC = MISCELLANEOUS
 - 00.00MW = MEAN HIGH WATER LINE
 - 00.00SW = EDGE OF CONCRETE/WALK
 - 00.00TB = TOP OF BANK
 - 00.00TS = TOE OF SLOPE
 - 00.00WD = WOOD DECK
 - 00.00 = GROUND ELEVATION
- NOTE: 00.0(0) denotes an elevation in feet with the decimal point being the location of the elevation (NGVD 1929).

- SYMBOLS LEGEND FOR EXISTING FACILITIES**
- [Symbol] = ELECTRICAL PANEL
 - [Symbol] = CLEAN OUT
 - [Symbol] = VALVE BOX
 - [Symbol] = FIRE HYDRANT
 - [Symbol] = METER
 - [Symbol] = MITERED END
 - [Symbol] = SIGN
 - [Symbol] = TELEPHONE RISER/METER
 - [Symbol] = CONCRETE UTILITY POLE
 - [Symbol] = ELECTRICAL BOX

- CONFLICTS LEGEND**
- [Symbol] = CONSTRUCT STORM SEWER UNDER EXISTING WATER & SEWER SERVICES
 - [Symbol] = CONSTRUCT STORM SEWER OVER EXISTING SANITARY SEWER SERVICE
 - [Symbol] = CONSTRUCT STORM SEWER UNDER EXISTING SANITARY SEWER SERVICE
 - [Symbol] = CONSTRUCT STORM SEWER UNDER EXISTING WATER & FIRE SERVICES
 - [Symbol] = CONSTRUCT STORM SEWER OVER EXISTING WATER SERVICES

- LEGEND**
- [Symbol] = POND/ DRY RETENTION AREA
 - [Symbol] = EXISTING POND
 - [Symbol] = WETLAND
 - [Symbol] = LITTORAL ZONE
 - [Symbol] = CONCRETE PAD/SIDEWALK
 - [Symbol] = EXISTING CONCRETE SIDEWALK
 - [Symbol] = EXISTING SHELL DRIVE
 - [Symbol] = PERVIOUS CONCRETE PLAZA
 - [Symbol] = EXISTING BUILDING
 - [Symbol] = 1/2" WASHED SHELL (SEE NOTE 9)
 - [Symbol] = EXISTING SHELL TO BE REMOVED & REPLACED WITH MULCH/SOD. SEE LANDSCAPE PLANS FOR SOD/MULCH LOCATIONS. (SEE NOTE 10)
 - [Symbol] = EXISTING DITCHES TO BE FILLED
 - [Symbol] = EXISTING ASPHALT, BASE & SUBGRADE (TO BE REMOVED)
 - [Symbol] = EXISTING ASPHALT TO BE MILLED AND REPLACED WITH A MINIMUM OF 1-1/2" TYPE S-III ASPHALT
- STRUCTURE NOTES**
- STR # 11 STORM MANHOLE (4' DIA.) FOOT TYPE 'J-7' (ALT A) INDEX #200 & 201 (USF 170-E "STORM") RIM ELEV = 9.90 INV NW = 1.17 INV NE = 6.68 INV S = 0.67
 - STR # 18 FOOT TYPE 'C' INLET (INDEX 232) GRATE ELEV = 6.00 INV S = 3.00 INV NE = 2.90
 - STR # 19 TYPE 'J' INLET GRATE ELEV = 7.40 INV E = 3.27 INV N = 3.17
 - STR # 23 5' RIP-RAP WITH FILTER FABRIC TO EXTEND 5' AROUND ALL WALLS OF STRUCTURE. TOP OF RIP-RAP SHALL NOT BE HIGHER THAN WINDOW CREST ELEVATION.
 - STR # 24 12" DRAIN BASIN (STD. GRATE) GRATE ELEV = 6.65 INV W = 2.05
 - STR # 25 STORM MANHOLE (4' DIA.) FOOT TYPE 'J-7' (ALT A) INDEX #200 & 201 (USF 170-E "STORM") RIM ELEV = 7.60 INV N = 0.29 INV S = 1.00 INV W = 0.39
 - STR # 9 12" DRAIN BASIN (STD. GRATE) GRATE ELEV = 8.10 INV E = 4.10
 - STR # 10 12" DRAIN BASIN (STD. GRATE) GRATE ELEV = 8.30 INV W = 4.04 INV SE = 1.70
 - STR # 7 MITERED END INV = 8.70
 - STR # 6 MITERED END INV = 8.85

MATCH LINE -- SEE SHEET 5

NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:	ACTIVITY	INITIALS/EMP. NO.	DATE
B	ADD NOTE 10; ADD BUFFER ENCRHMT AND COMP AREAS FOR SW; ADD CONC PVMT FOR PED. CROSSING	10/18/12	DJB/89366			DESIGNED BY:	ATO/89520	12/14/11
A	ADD TOB AREA TO DRY RETENTION AREA #1; ADD FLOODPLAIN COMP LAKE 8C INFORMATION	9/7/12	DJB/89366			CHECKED BY:		
						CONTRACT ADMIN. BY:		

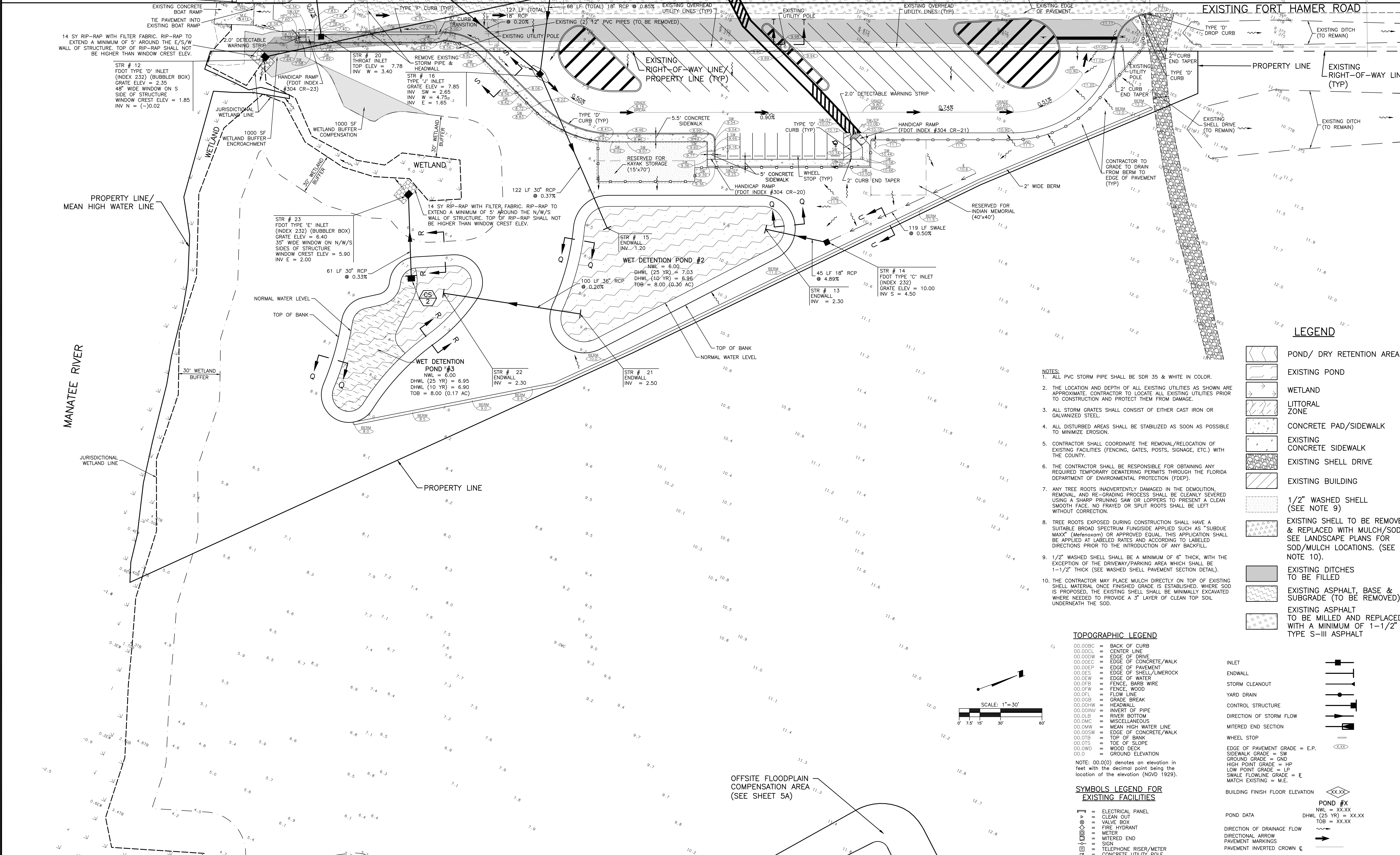
WilsonMiller Stantec

6900 Professional Parkway East, Sarasota, FL 34240
 Phone: 941-901-6900 • Fax: 941-901-6910
 Certificate of Authorization #43 • FL Lic. # LC0000170 • www.stantec.com

CLIENT:	MANATEE BOARD OF COUNTY COMMISSIONERS	DATE:	NOVEMBER 2011	TITLE:	PAVING AND DRAINAGE PLAN -- WEST
PROJECT:	FT. HAMER PARK, PHASE II	HORIZONTAL SCALE:	1"=30'	DRAWN BY:	DJB/89366
		VERTICAL SCALE:	N/A	CHECKED BY:	
		CROSS REFERENCE FILE NO.:		PROJECT NUMBER:	215610582 220
				SHEET NUMBER:	4 OF 13

MATCH LINE - SEE SHEET 4

EXISTING FORT HAMER ROAD



- NOTES:**
1. ALL PVC STORM PIPE SHALL BE SDR 35 & WHITE IN COLOR.
 2. THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AS SHOWN ARE APPROXIMATE. CONTRACTOR TO LOCATE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND PROTECT THEM FROM DAMAGE.
 3. ALL STORM GRATES SHALL CONSIST OF EITHER CAST IRON OR GALVANIZED STEEL.
 4. ALL DISTURBED AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE TO MINIMIZE EROSION.
 5. CONTRACTOR SHALL COORDINATE THE REMOVAL/RELOCATION OF EXISTING FACILITIES (FENCING, GATES, POSTS, SIGNAGE, ETC.) WITH THE COUNTY.
 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY REQUIRED TEMPORARY Dewatering PERMITS THROUGH THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP).
 7. ANY TREE ROOTS INADVERTENTLY DAMAGED IN THE DEMOLITION, REMOVAL, AND RE-GRADING PROCESS SHALL BE CLEANLY SEVERED USING A SHARP PRUNING SAW OR LOPPERS TO PRESENT A CLEAN SMOOTH FACE. NO FRAYED OR SPLIT ROOTS SHALL BE LEFT WITHOUT CORRECTION.
 8. TREE ROOTS EXPOSED DURING CONSTRUCTION SHALL HAVE A SUITABLE BROAD SPECTRUM FUNGICIDE APPLIED SUCH AS "SUBDOE MAXX" (Mefenoxam) OR APPROVED EQUAL. THIS APPLICATION SHALL BE APPLIED AT LABELED RATES AND ACCORDING TO LABELED DIRECTIONS PRIOR TO THE INTRODUCTION OF ANY BACKFILL.
 9. 1/2" WASHED SHELL SHALL BE A MINIMUM OF 6" THICK, WITH THE EXCEPTION OF THE DRIVEWAY/PARKING AREA WHICH SHALL BE 1-1/2" THICK (SEE WASHED SHELL PAVEMENT SECTION DETAIL).
 10. THE CONTRACTOR MAY PLACE MULCH DIRECTLY ON TOP OF EXISTING SHELL MATERIAL ONCE FINISHED GRADE IS ESTABLISHED. WHERE SOD IS PROPOSED, THE EXISTING SHELL SHALL BE MINIMALLY EXCAVATED WHERE NEEDED TO PROVIDE A 3" LAYER OF CLEAN TOP SOIL UNDERNEATH THE SOD.

- LEGEND**
- POND/ DRY RETENTION AREA
 - EXISTING POND
 - WETLAND
 - LITTORAL ZONE
 - CONCRETE PAD/SIDEWALK
 - EXISTING CONCRETE SIDEWALK
 - EXISTING SHELL DRIVE
 - EXISTING BUILDING
 - 1/2" WASHED SHELL (SEE NOTE 9)
 - EXISTING SHELL TO BE REMOVED & REPLACED WITH MULCH/SOD. SEE LANDSCAPE PLANS FOR SOD/MULCH LOCATIONS. (SEE NOTE 10).
 - EXISTING DITCHES TO BE FILLED
 - EXISTING ASPHALT, BASE & SUBGRADE (TO BE REMOVED)
 - EXISTING ASPHALT TO BE MILLED AND REPLACED WITH A MINIMUM OF 1-1/2" TYPE S-III ASPHALT

TOPOGRAPHIC LEGEND

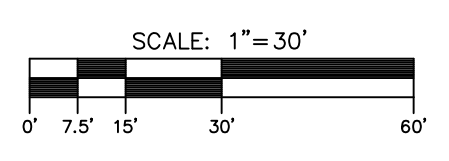
- 00.00BC = BACK OF CURB
- 00.00CL = CENTER LINE
- 00.00DW = EDGE OF DRIVE
- 00.00EC = EDGE OF CONCRETE/WALK
- 00.00EP = EDGE OF PAVEMENT
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- 00.00TB = TOP OF BANK
- 00.00TS = TOE OF SLOPE
- 00.00WD = WOOD DECK
- 00.00 = GROUND ELEVATION

NOTE: 00.0(0) denotes an elevation in feet with the decimal point being the location of the elevation (NGVD 1929).

SYMBOLS LEGEND FOR EXISTING FACILITIES

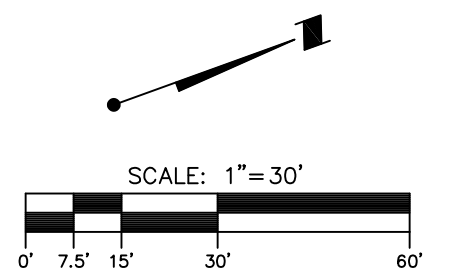
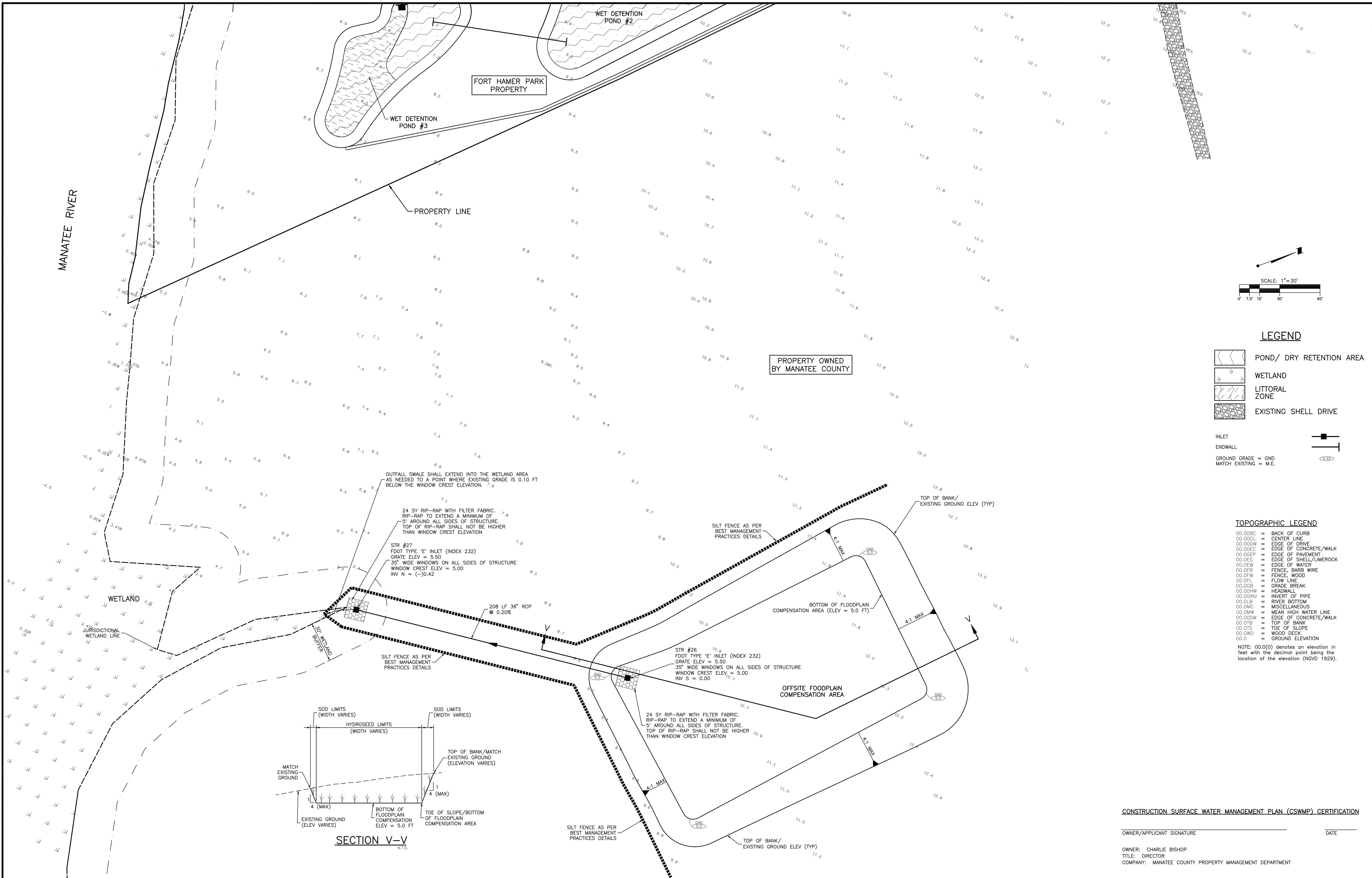
- ELECTRICAL PANEL
- CLEAN OUT
- VALVE BOX
- FIRE HYDRANT
- METER
- MITERED END
- SIGN
- TELEPHONE RISER/METER
- CONCRETE UTILITY POLE

- INLET
- ENDWALL
- STORM CLEANOUT
- YARD DRAIN
- CONTROL STRUCTURE
- DIRECTION OF STORM FLOW
- MITERED END SECTION
- WHEEL STOP
- EDGE OF PAVEMENT GRADE = E.P.
- SIDEWALK GRADE = SW
- GROUND GRADE = GND
- HIGH POINT GRADE = HP
- LOW POINT GRADE = LP
- SWALE FLOWLINE GRADE = E
- MATCH EXISTING = M.E.
- BUILDING FINISH FLOOR ELEVATION
- POND #X
NWL = XX.XX
DHWL (25 YR) = XX.XX
TOB = XX.XX
- POND DATA
- DIRECTION OF DRAINAGE FLOW
- DIRECTIONAL ARROW
- PAVEMENT MARKINGS
- PAVEMENT INVERTED CROWN



OFFSITE FLOODPLAIN COMPENSATION AREA (SEE SHEET 5A)

<table border="1"> <tr> <td>DESIGNED BY:</td> <td>INITIALS/EMP. NO.</td> <td>DATE</td> </tr> <tr> <td>DRAWN BY:</td> <td>ATO/89520</td> <td>12/14/11</td> </tr> <tr> <td>CHECKED BY:</td> <td></td> <td></td> </tr> <tr> <td>CONTRACT ADMIN. BY:</td> <td></td> <td></td> </tr> <tr> <td>WM APPROVED BY:</td> <td></td> <td></td> </tr> </table>				DESIGNED BY:	INITIALS/EMP. NO.	DATE	DRAWN BY:	ATO/89520	12/14/11	CHECKED BY:			CONTRACT ADMIN. BY:			WM APPROVED BY:			<p>CLIENT: MANATEE BOARD OF COUNTY COMMISSIONERS</p> <p>PROJECT: FT. HAMER PARK, PHASE II</p>		<p>DATE: NOVEMBER 2011</p> <p>HORIZONTAL SCALE: 1"=30'</p> <p>VERTICAL SCALE: N/A</p> <p>SEC. TWP. RGE: 17 34S 19E</p> <p>CROSS REFERENCE FILE NO.:</p> <p>PROJECT NUMBER: 215610582 220</p>		<p>TITLE: PAVING AND DRAINAGE PLAN - EAST</p> <p>DANIEL J. BOND, P.E. FLORIDA LICENSE NO. 57969</p> <p>INDEX NUMBER: D-215610582-005</p> <p>SHEET NUMBER: 5 OF 13</p>		
DESIGNED BY:	INITIALS/EMP. NO.	DATE																							
DRAWN BY:	ATO/89520	12/14/11																							
CHECKED BY:																									
CONTRACT ADMIN. BY:																									
WM APPROVED BY:																									
<table border="1"> <tr> <th>REV. NO.</th> <th>REVISION</th> <th>DATE</th> <th>DRAWN BY / EMP. NO.</th> <th>CHECKED BY / EMP. NO.</th> <th>WM APPROVED BY:</th> </tr> <tr> <td>B</td> <td>ADD NOTE 10</td> <td>10/18/12</td> <td>DJB/89366</td> <td></td> <td></td> </tr> <tr> <td>A</td> <td>ADD TOB AREA TO POND #2 AND POND #3; REVISED FLOODPLAIN COMP AREA</td> <td>9/7/12</td> <td>DJB/89366</td> <td></td> <td></td> </tr> </table>				REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:	B	ADD NOTE 10	10/18/12	DJB/89366			A	ADD TOB AREA TO POND #2 AND POND #3; REVISED FLOODPLAIN COMP AREA	9/7/12	DJB/89366			<p>6900 Professional Parkway East, Sarasota, FL 34240 Phone: 941-907-6900 • Fax: 941-907-6910 Certificate of Authorization #43 • FL Lic. # LC000170 • www.stantec.com</p>		<p>Jan 07, 2013 - 15:16:24 D:\89366\215610582\215610582.dwg\drawing\001-phase2\sheet\005-10582-001-005.dwg</p>	
REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:																				
B	ADD NOTE 10	10/18/12	DJB/89366																						
A	ADD TOB AREA TO POND #2 AND POND #3; REVISED FLOODPLAIN COMP AREA	9/7/12	DJB/89366																						



- LEGEND**
- POND/ DRY RETENTION AREA
 - WETLAND
 - LITTORAL ZONE
 - EXISTING SHELL DRIVE

- INLET
- ENDWALL
- GROUND GRADE = GND
- MATCH EXISTING = M.E.

- TOPOGRAPHIC LEGEND**
- 00.00BC = BACK OF CURB
 - 00.00CL = CENTER LINE
 - 00.00DW = EDGE OF DRIVE
 - 00.00EC = EDGE OF CONCRETE/WALK
 - 00.00EP = EDGE OF PAVEMENT
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 - 00.00WD = WOOD DECK
 - 00.0 = GROUND ELEVATION
- NOTE: 00.0(0) denotes an elevation in feet with the decimal point being the location of the elevation (NGVD 1929).

CONSTRUCTION SURFACE WATER MANAGEMENT PLAN (CSWMP) CERTIFICATION

OWNER/APPLICANT SIGNATURE _____ DATE _____

OWNER: CHARLIE BISHOP
 TITLE: DIRECTOR
 COMPANY: MANATEE COUNTY PROPERTY MANAGEMENT DEPARTMENT

REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:
A	REVISE FLOODPLAIN COMP BOTTOM ELEV; REVISE SECTION V-V; ADD STRS 26/27	9/19/12	DJB/89366		

ACTIVITY	INITIALS/EMP. NO.	DATE
DESIGNED BY:		
DRAWN BY:	ATO/89520	6/28/12
CHECKED BY:		
CONTRACT ADMIN. BY:		
WM APPROVED BY:		

Wilson Miller Stantec

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CLIENT: MANATEE BOARD OF COUNTY COMMISSIONERS

PROJECT: FT. HAMER PARK, PHASE II

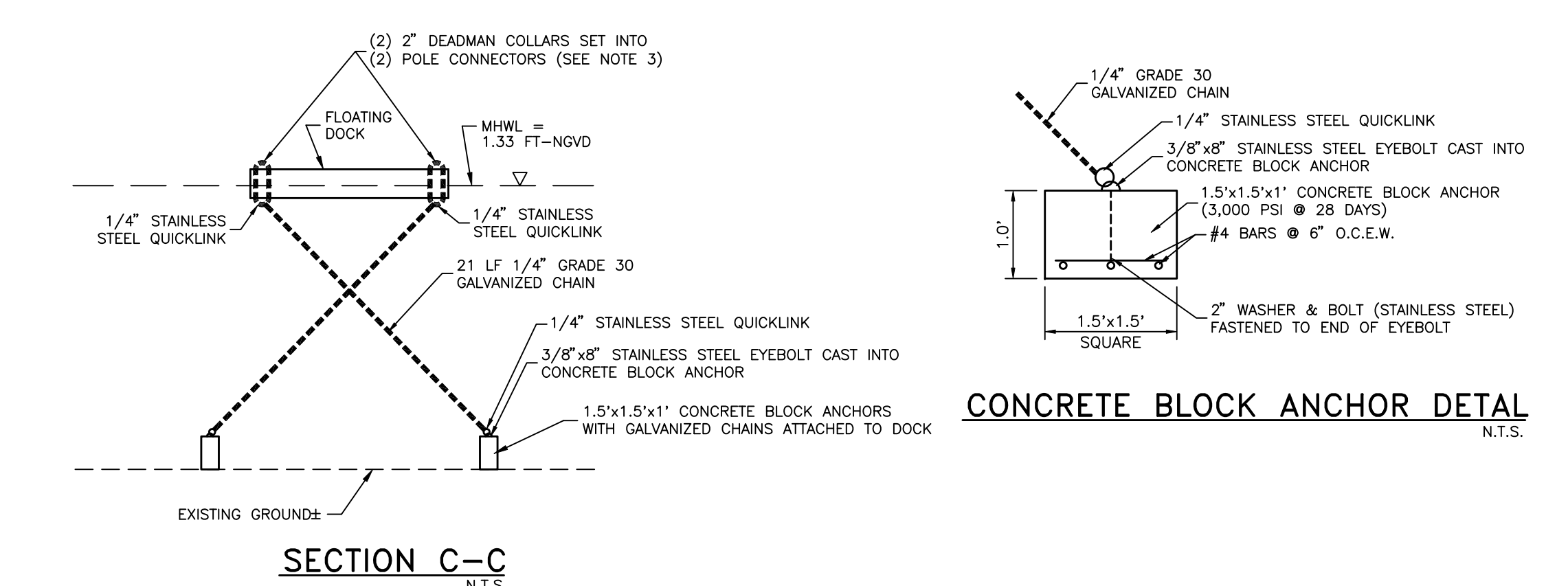
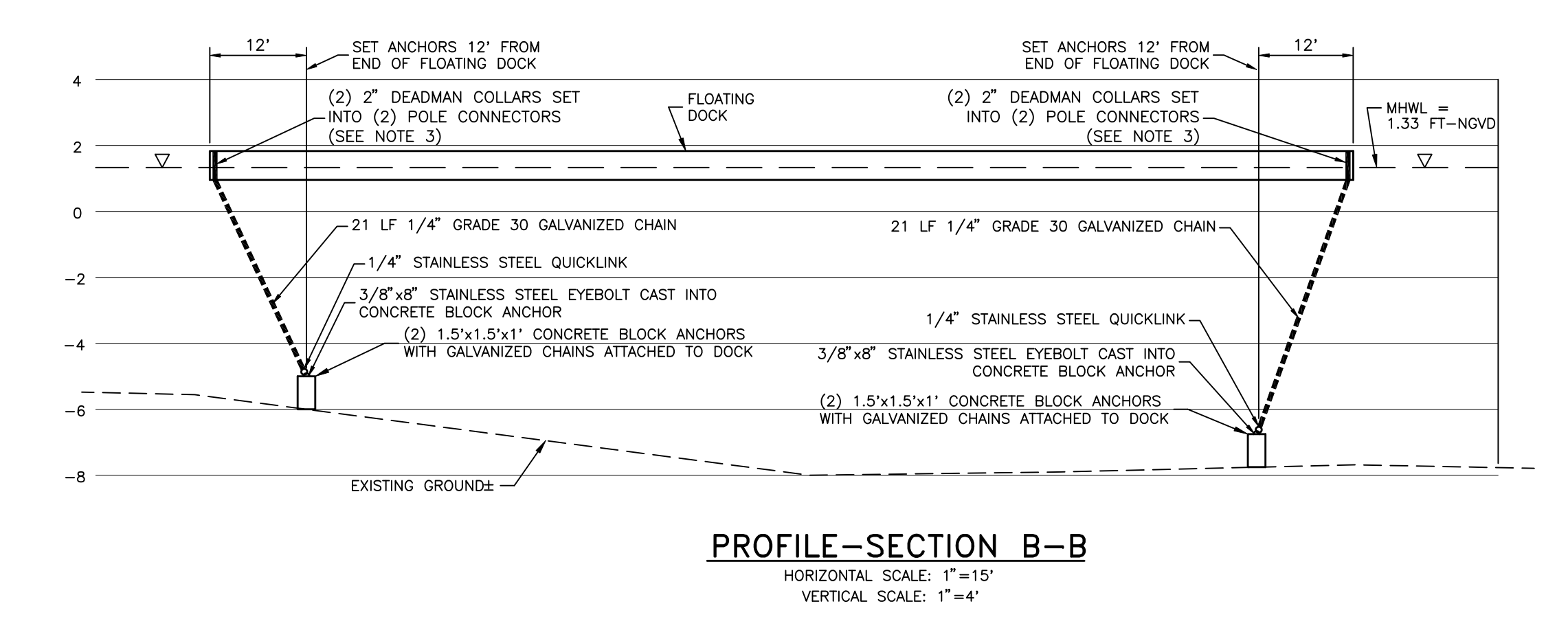
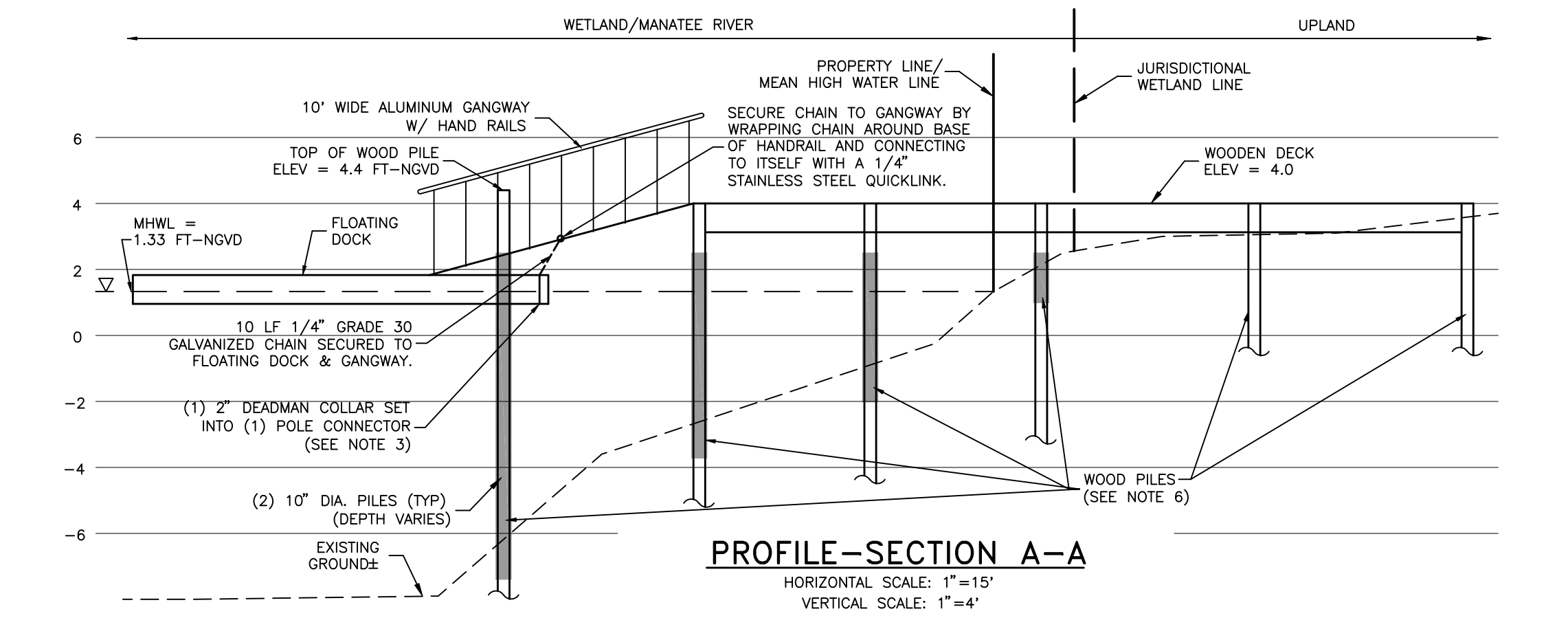
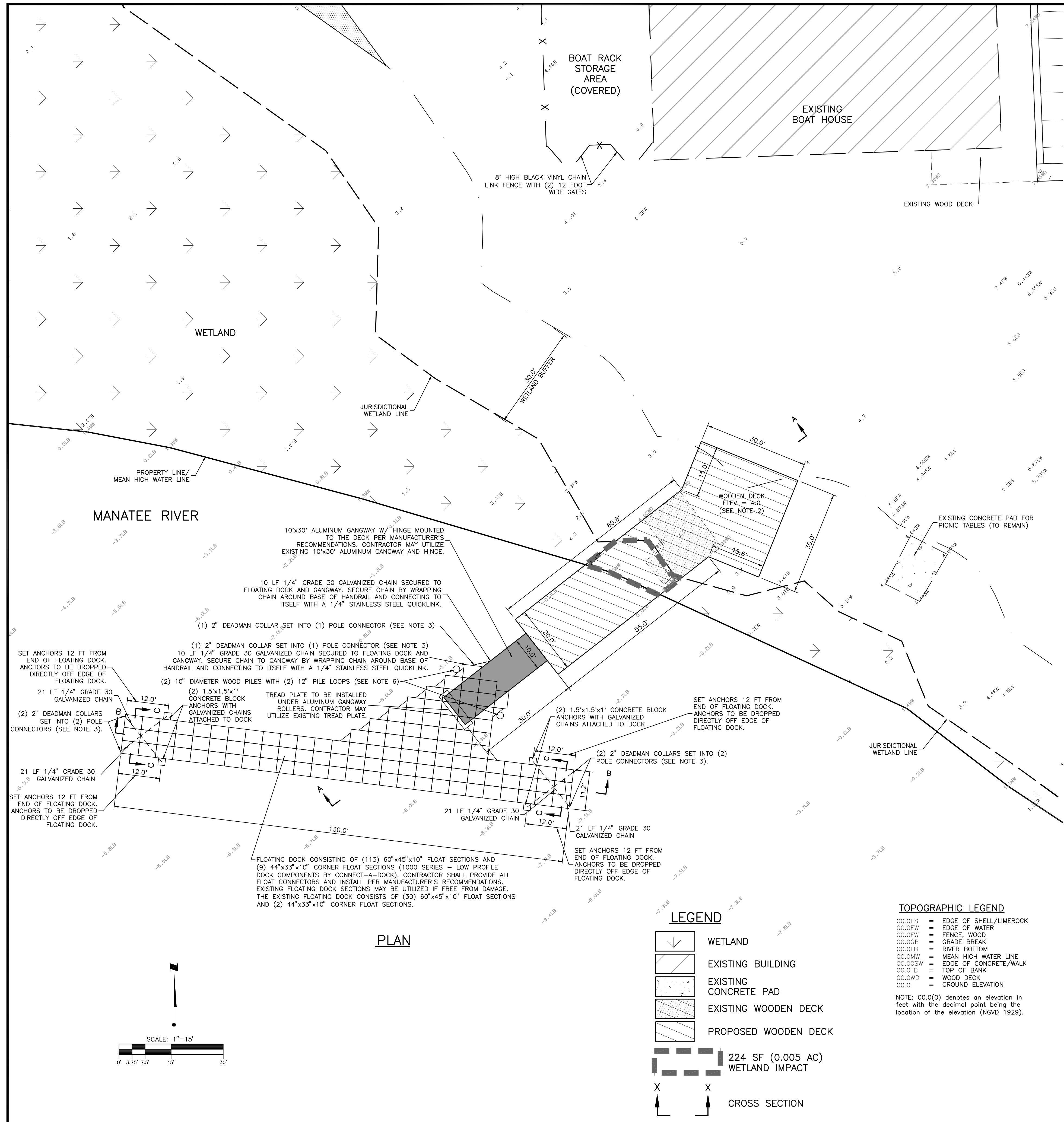
DATE: JUNE 2012
 HORIZONTAL SCALE: 1"=30'
 VERTICAL SCALE: N/A
 SEC: 17 RGE: 34S 19E

TITLE: OFFSITE FLOODPLAIN COMPENSATION PLAN AND DETAILS

CROSS REFERENCE FILE NO.: 215610582 220

PROJECT NUMBER: 215610582 220

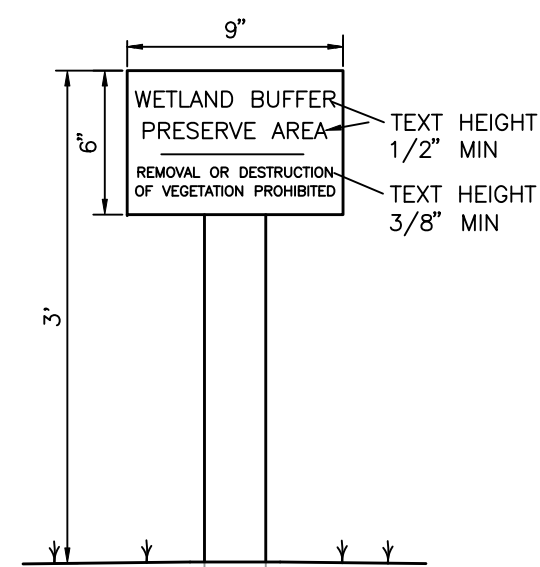
SHEET NUMBER: 5A OF 13



ACTIVITY	INITIALS/EMP. NO.	DATE	Wilson Miller Stantec <small>6900 Professional Parkway East, Sarasota, FL 34240 Phone: 941-907-6500 • Fax: 941-907-6910 Certificate of Authorization #43 • FL Lic. # LC0000170 • www.stantec.com</small>	CLIENT:	MANATEE BOARD OF COUNTY COMMISSIONERS	DATE:	NOVEMBER 2011	TITLE:	FLOATING DOCK PLAN AND DETAILS	DRAWN BY:	ATO/89520	12/14/11	CHECKED BY:		CONTRACT ADMIN. BY:		WM APPROVED BY:		PROJECT:	FT. HAMER PARK, PHASE II	CROSS REFERENCE FILE NO.:		PROJECT NUMBER:	215610582 220	SHEET NUMBER:	6 OF 13
DESIGNED BY:				CHECKED BY:		DATE:		HORIZONTAL SCALE:	1"=15'	INDEX NUMBER:																
DRAWN BY:				DATE:				VERTICAL SCALE:	1"=4'	D-215610582-006																
CHECKED BY:				DATE:				SEC.:	17	345	19E															

GENERAL SITE CONSTRUCTION NOTES:

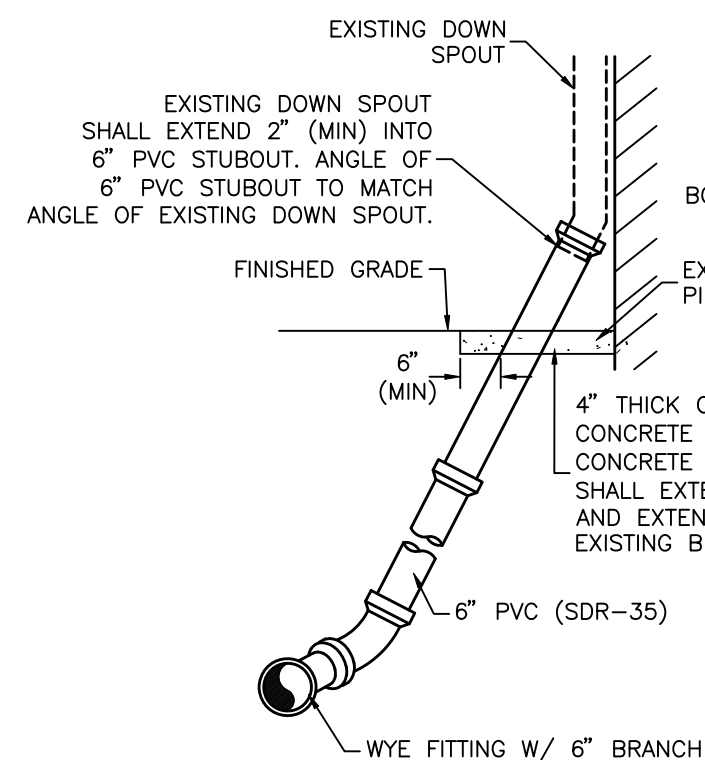
1. THERE SHALL BE NO CHANGE OR DEVIATION FROM THESE PLANS WITHOUT PRIOR APPROVAL BY THE ENGINEER.
2. ALL CLEARING AND GRUBBING DEBRIS TO BE BURNED OR REMOVED FROM SITE AND IS PART OF CLEARING AND GRUBBING ITEM. A BURN PERMIT IS REQUIRED FROM THE ENVIRONMENTAL MANAGEMENT DEPARTMENT IF BURNING IS TO OCCUR.
3. ALL PROPOSED GROUND ELEVATIONS ARE FINISHED SOE ELEVATIONS. FINISH EARTHWORK GRADING SHALL BE 0.2 FEET BELOW ELEVATIONS SHOWN TO ALLOW FOR SOD THICKNESS.
4. SODDING INCLUDES MAINTAINING SLOPES AND SOD UNTIL COMPLETION AND ACCEPTANCE OF TOTAL PROJECT OR GROWTH IS ESTABLISHED WHICHEVER COMES LAST. UNTIL THEN, ALL EROSION, SILTATION, AND MAINTENANCE OF GRADES AND GRASS IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. CERTAIN TREES ARE DESIGNATED BY THE OWNER TO BE SAVED AND PROTECTED BY THE CONTRACTOR. IT IS ASSUMED THESE TREES ARE HEALTHY AND ARE EXPECTED TO BE PART OF THE LANDSCAPE DEVELOPMENT. THEREFORE, IF ANY TREE(S) ARE DAMAGED BY CONSTRUCTION OPERATIONS OR BY OTHER MEANS (EXCLUDING LIGHTNING, WINDSTORM AND OTHER ACTS OF GOD) AND PERISHES WITHIN THE CONSTRUCTION PERIOD, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND DISPOSE OF THOSE TREES. MANATEE COUNTY NRD APPROVAL IS REQUIRED PRIOR TO REMOVAL OF ANY TREES DESIGNATED TO REMAIN. NO ADDITIONAL COMPENSATION SHALL BE MADE BY THE OWNER FOR THE LABOR, MATERIAL, OR MACHINERY REQUIRED TO REMOVE SAID TREE(S).
6. WHERE EXCAVATIONS ARE IN CLOSE PROXIMITY OF TREES, THE CONTRACTOR SHALL USE EXTREME CARE IN NOT DAMAGING THE ROOT SYSTEM. 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 OF HIS EMPLOYEES AND SUBCONTRACTORS OF THIS REQUIREMENT AND TO ENFORCE SAME.
7. LAY SOD AROUND ALL INLETS, MITERED ENDWALLS, HEADWALLS, SWALES, LAKE SLOPES, ADJACENT TO EDGE OF PAVEMENT AND ADJACENT TO BACK OF CURB AS SHOWN IN DETAILS OR AS DIRECTED BY THE ENGINEER.
8. NOTIFY "SUNSHINE STATE ONE CALL (1-800-432-4770), MANATEE COUNTY PUBLIC WORKS DEPARTMENT, FLORIDA POWER & LIGHT, PEACE RIVER ELECTRIC, VERIZON AND ANY OTHER UTILITIES (GAS COMPANIES, CABLE TV, ETC.) PRIOR TO CONSTRUCTION OPERATION AND PRIOR TO ANY CONNECTION TO EXISTING UTILITIES. IT IS THE CONTRACTORS RESPONSIBILITY TO PROTECT EXISTING UTILITIES FROM DAMAGE.
9. ALL UTILITY LINES, STORM DRAIN LINES AND ACCESSORIES SUCH AS, BUT NOT LIMITED TO, MANHOLES, CLEANOUTS, SEWER AND WATER SERVICES, VALVES, FIRE HYDRANTS AND INLETS SHALL BE CONSTRUCTED TO ALIGNMENT AND LOCATIONS SHOWN ON PLANS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
10. CLEARING, GRUBBING, STRIPPING, AND COMPACTION SHALL BE INSPECTED BY THE ENGINEER OR HIS DULY APPOINTED REPRESENTATIVE PRIOR TO FILLING.
11. PRIOR TO THE START OF CONSTRUCTION ACTIVITIES, PRESERVE AREAS WITHIN AND ADJOINING THE AREA OF CONSTRUCTION ACTIVITY SHALL BE PROTECTED BY ERECTION OF TREE PROTECTION BARRICADES AND/OR SILT BARRIERS. TREE PROTECTION BARRICADES SHALL MEET THE STANDARDS OF MANATEE COUNTY LAND DEVELOPMENT CODE. SILT BARRIERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE BEST MANAGEMENT PRACTICES DETAIL DRAWING. THE ENGINEER SHALL DETERMINE THE EXTENT AND TYPE OF PROTECTIVE MEASURES TO BE CONSTRUCTED FOR THE PROTECTION OF PRESERVE AREAS SUBJECT TO THE APPROVAL OF SWPMD & MANATEE COUNTY NRD. THE CONTRACTOR SHALL NOTIFY THE ENGINEER & MANATEE COUNTY NRD WHEN PRESERVE AREA BARRICADES AND BARRIERS ARE IN PLACE. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ANY REQUIRED TREE REMOVAL PERMIT FROM MANATEE COUNTY.
12. ALL LIMITS OF CONSTRUCTION FOR THE OUTFALL PIPE/STRUCTURE/SPREADER SWALE SHALL BE STAKED PRIOR TO ANY CONSTRUCTION WITHIN THE LAKES OR WETLAND/BUFFERS. APPROVAL FROM THE ENGINEER, AND THE OWNER IS REQUIRED BEFORE EQUIPMENT CAN BE USED WITHIN THE LAKE OR WETLAND/BUFFER. THE ENGINEER SHALL BE ON SITE DURING CONSTRUCTION WITHIN THE LAKE OR WETLAND/BUFFER.
13. LOCATION OF ALL STORM STRUCTURES (WEIR, MITERED END, CONTROL STRUCTURE, GRATE INLET, ETC.) ADJACENT TO A WETLAND SHALL BE APPROVED BY THE ENGINEER OR HIS REPRESENTATIVE AFTER SURVEY STAKE OUT AND PRIOR TO INSTALLATION.
14. FILLING, EXCAVATING OR REMOVAL OF NATIVE VEGETATION SHALL BE PROHIBITED IN THE PRESERVATION AREA, UNLESS APPROVED BY MANATEE COUNTY NRD.
15. THE CONTRACTOR SHALL ADHERE TO AND HAVE A COPY OF THE SWPMD PERMIT FOR THE PROJECT ON SITE.
16. ALL CONCRETE PIPE IN R/W SHALL HAVE A FILTER FABRIC JACKET MINIMUM 12" EACH SIDE OF JOINT WITH MINIMUM 24" OVERLAP AT SEAM PER FOOT INDEX #280 & #199 & ALL APPLICABLE COUNTY REQUIREMENTS. IN ADDITION, ALL ELLIPTICAL PIPE SHALL HAVE ALL JOINTS WRAPPED.
17. CONTRACTOR SHALL SPRINKLE OR OTHERWISE APPLY WATER TO AFFECTED CONSTRUCTION AREAS TO CONTROL BOTH SIGNIFICANT WIND EROSION AND FUGITIVE DUST.
18. CONTRACTOR SHALL CONSTRUCT ALL VALVES SO THAT NO VALVE BOXES ARE LOCATED IN HANDICAP RAMPS AND/OR CURBING. IF VALVES ARE FOUND TO BE IN THESE LOCATIONS, THE COST OF VALVE RELOCATION IS THE CONTRACTOR'S RESPONSIBILITY.
19. THRUST BLOCKS AND JOINT RESTRAINTS DETAILS ON THE WATER DISTRIBUTION DETAILS SHEET SHALL ALSO APPLY TO FORCE MAIN, IRRIGATION & WATER MAINS.
20. TRENCH DETAILS ON THE WASTEWATER COLLECTION CONSTRUCTION DETAILS SHEET SHALL ALSO APPLY TO FORCE MAIN, IRRIGATION & WATER MAINS.
21. THE CONTRACTOR SHALL PROVIDE RECORD DRAWINGS THAT MEET OR EXCEED THE REQUIREMENTS OF THE SWPMD ERP INFORMATION MANUAL, LATEST EDITION AND THE MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS, LATEST EDITION.
22. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL DURING CONSTRUCTION IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES MILLENNIUM EDITION AND THE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS, LATEST EDITION, TRAFFIC CONTROL THROUGH WORK ZONES, SERIES 600 INDICES.



- NOTE:**
1. SIGN FACE TO BE YELLOW WITH BLACK TEXT.
 2. POST MAY BE PRESSURE TREATED 4"x4" OR FLANGED CHANNEL STEEL (1 1/2").
 3. BURY POST A MINIMUM OF 3.0'.

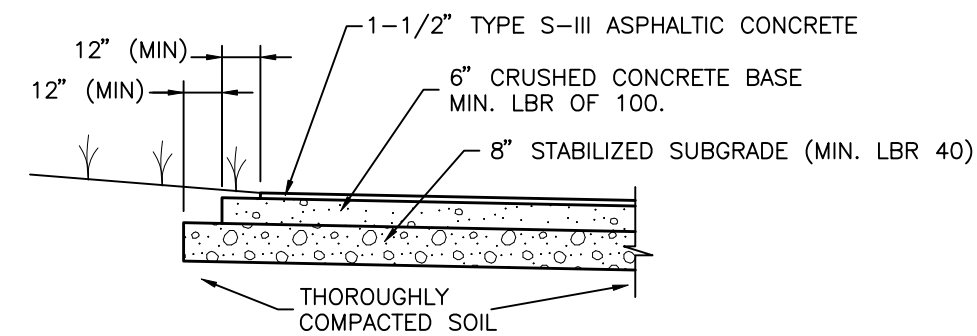
TYPICAL WETLAND BUFFER

SIGN DETAIL



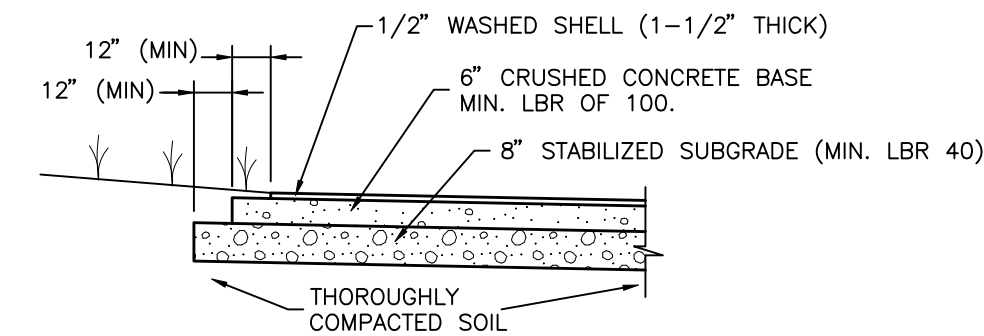
SECTION "A-A"

TYPICAL ROOF DRAIN SERVICE/ CONNECTION DETAIL



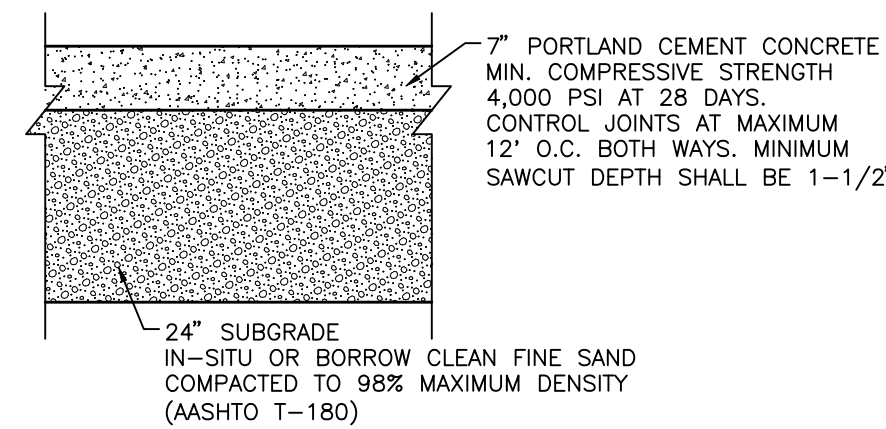
FLEXIBLE (ASPHALT) PAVEMENT SECTION

N.T.S.



WASHED SHELL PAVEMENT SECTION

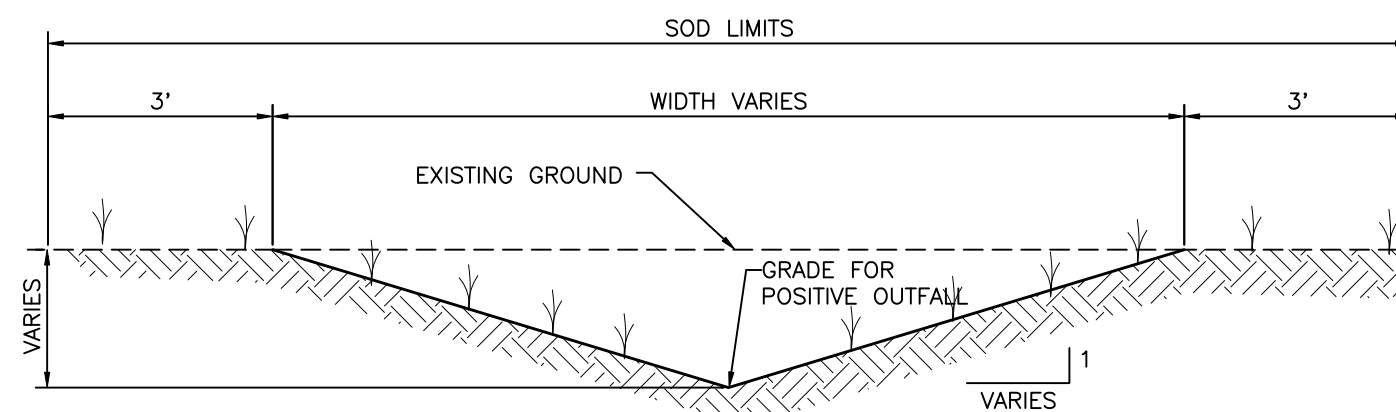
N.T.S.



- NOTES:**
1. SUBGRADE SOILS SHOULD BE DENSIFIED TO AT LEAST 98% OF MODIFIED PROCTOR TEST MAXIMUM DRY DENSITY (ASTM D1557, AASHTO T-180) TO A DEPTH OF AT LEAST 2 FEET PRIOR TO PLACEMENT OF CONCRETE.
 2. THE SURFACE OF THE SUBGRADE SOILS SHOULD BE SMOOTH, AND ANY DISTURBANCES OR WHEEL RUTTING CORRECTED PRIOR TO PLACEMENT OF CONCRETE.
 3. THE SUBGRADE SOILS SHOULD BE MOISTENED PRIOR TO PLACEMENT OF CONCRETE.
 4. CONCRETE PAVEMENT THICKNESS SHOULD BE UNIFORM THROUGHOUT.
 5. SEE SITE PLAN FOR PORTLAND CEMENT CONCRETE PAVEMENT LOCATIONS.

PORTLAND CEMENT CONCRETE RIGID PAVEMENT SECTION

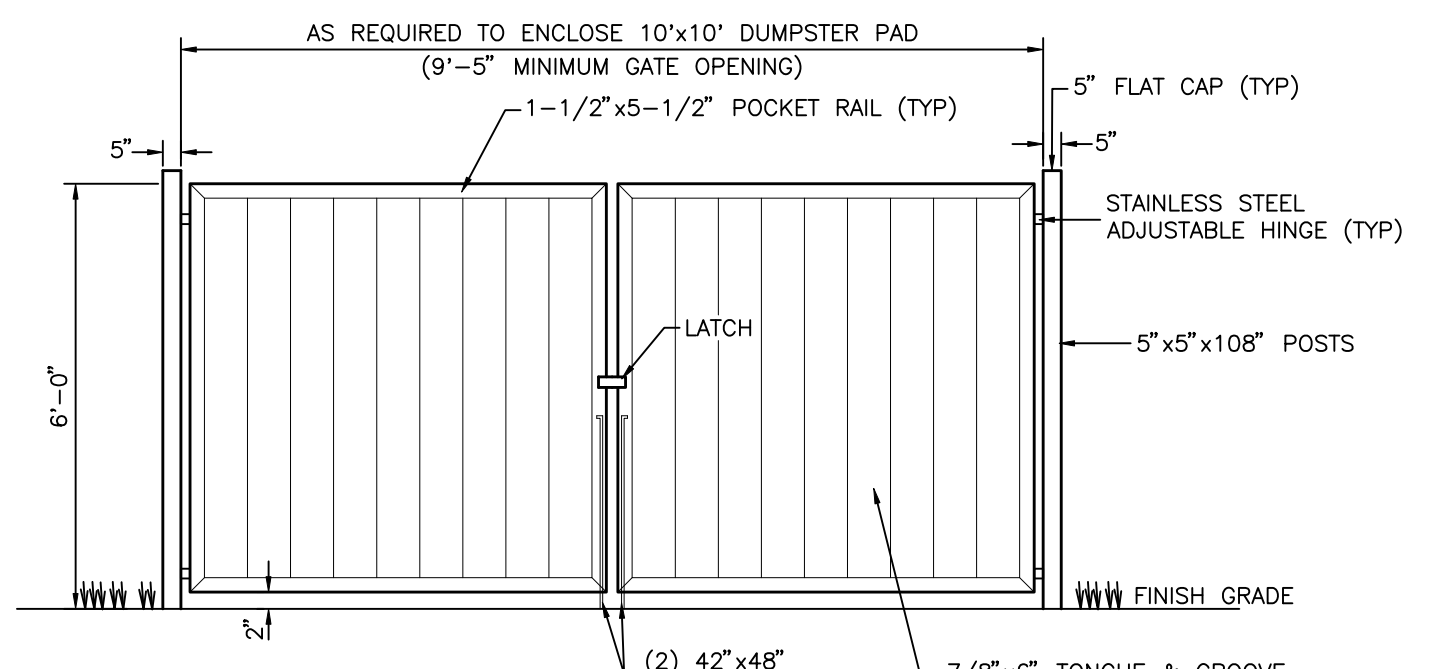
N.T.S.



- NOTES:**
1. SWALES SHALL BE SODDED AS SOON AS PRACTICAL TO MINIMIZE EROSION.
 2. THE OUTFALL SWALE SHALL BE CONSTRUCTED AT THE DOWNSTREAM SIDE OF EACH CONTROL STRUCTURE/WEIR AND SHALL BE INCLUDED IN THE PRICE OF THE CONTROL STRUCTURE/WEIR.
 3. THE SWALE SHALL EXTENDED INTO BUFFER/WETLAND AREA TO A POINT WHERE EXISTING GRADE IS 0.10' BELOW THE LOWEST NOTCH ELEVATION.

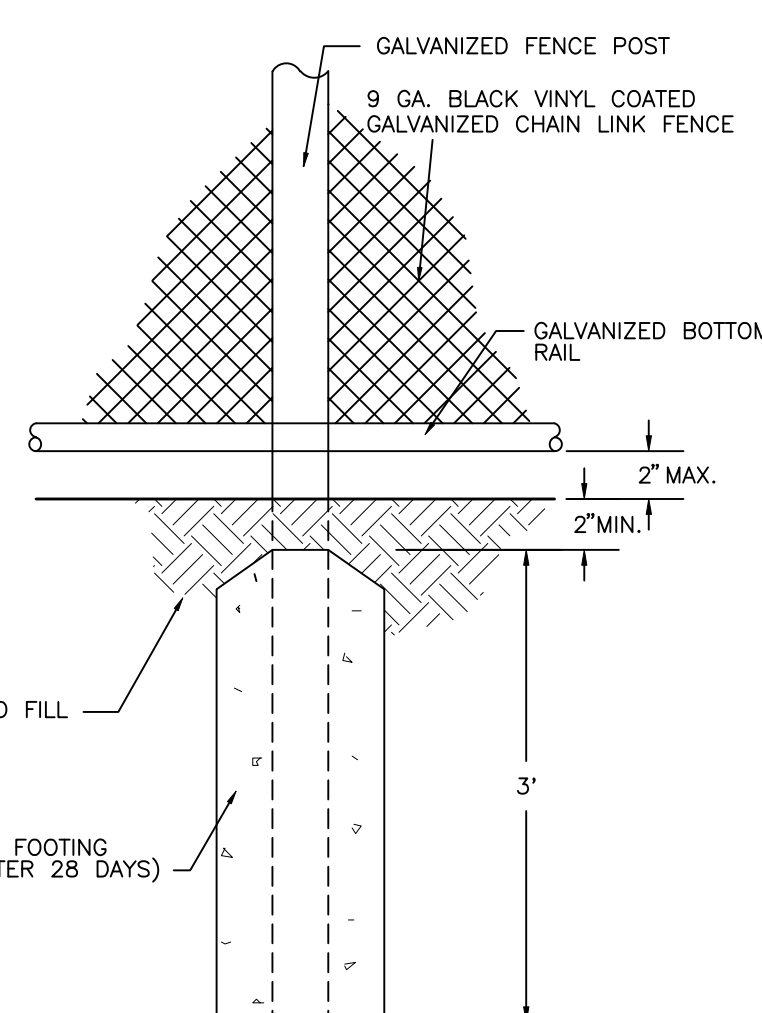
TYPICAL SWALE / TYPICAL OUTFALL SWALE

N.T.S.



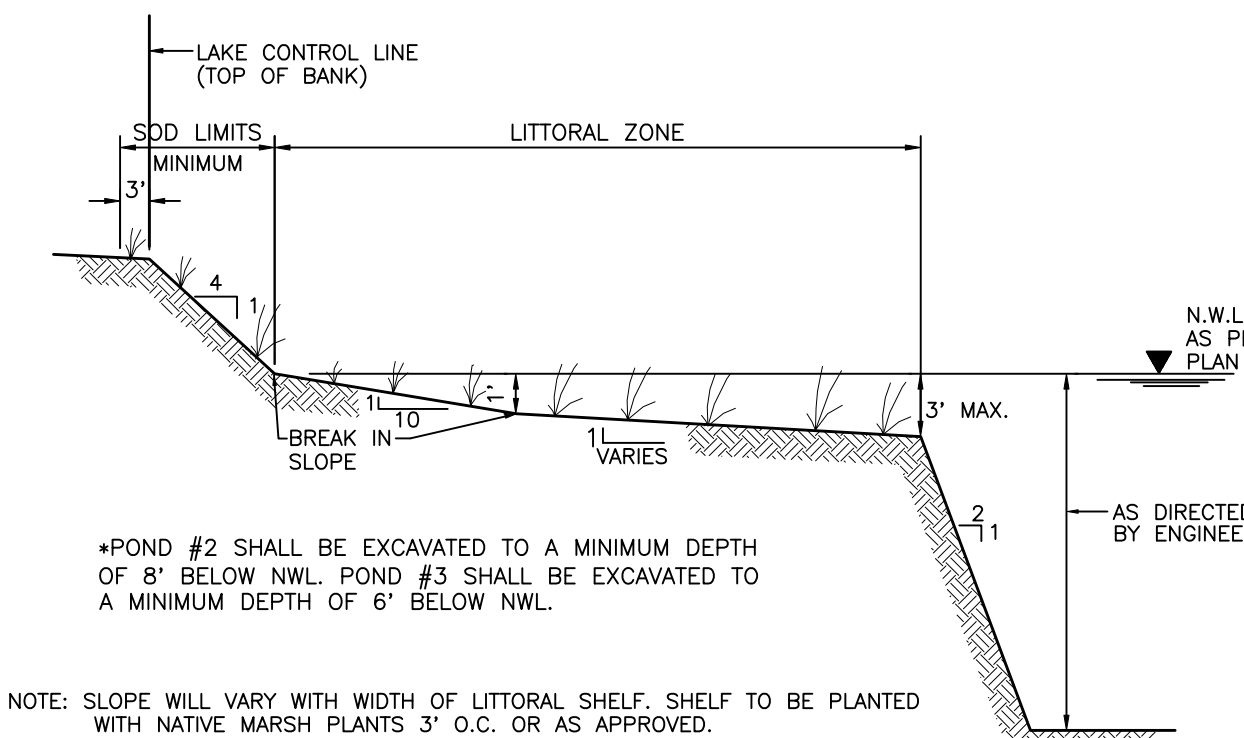
GATE ELEVATION

- NOTES:**
1. ENCLOSURE & GATES TO BE PEBBLESTONE PICKET AS MANUFACTURED BY POLY VINYL CREATIONS (OR APPROVED EQUAL). FINAL COLOR TO BE APPROVED BY COUNTY.
 2. CONTRACTOR TO SUBMIT TO THE COUNTY/ENGINEER SHOP DRAWINGS AND SIGNED & SEALED WINDLOAD CALCULATIONS MEETING BUILDING CODE REQUIREMENTS.
 3. CONTRACTOR SHALL INCLUDE ANY BUILDING PERMITTING REQUIRED FOR DUMPSTER PAD, ENCLOSURE, & GATES IN THEIR BID PRICE.
 4. ALL GATE POSTS TO BE 5" x 5" x 10" WITH ALUMINUM INSERT H BEAM AND CONCRETE IN GROUND MINIMUM OF 34" WITH 12" DIAMETER HOLE. CONCRETE TO BE FILLED UP TO FINISHED GRADE.
 5. FOR HARDWARE: PADLOCKABLE DROP ROD, LOCK LATCH DELUXE WITH 6 PIN KEY SYSTEM AND STAINLESS STEEL ADJUSTABLE HINGES.



FENCE POST DETAIL

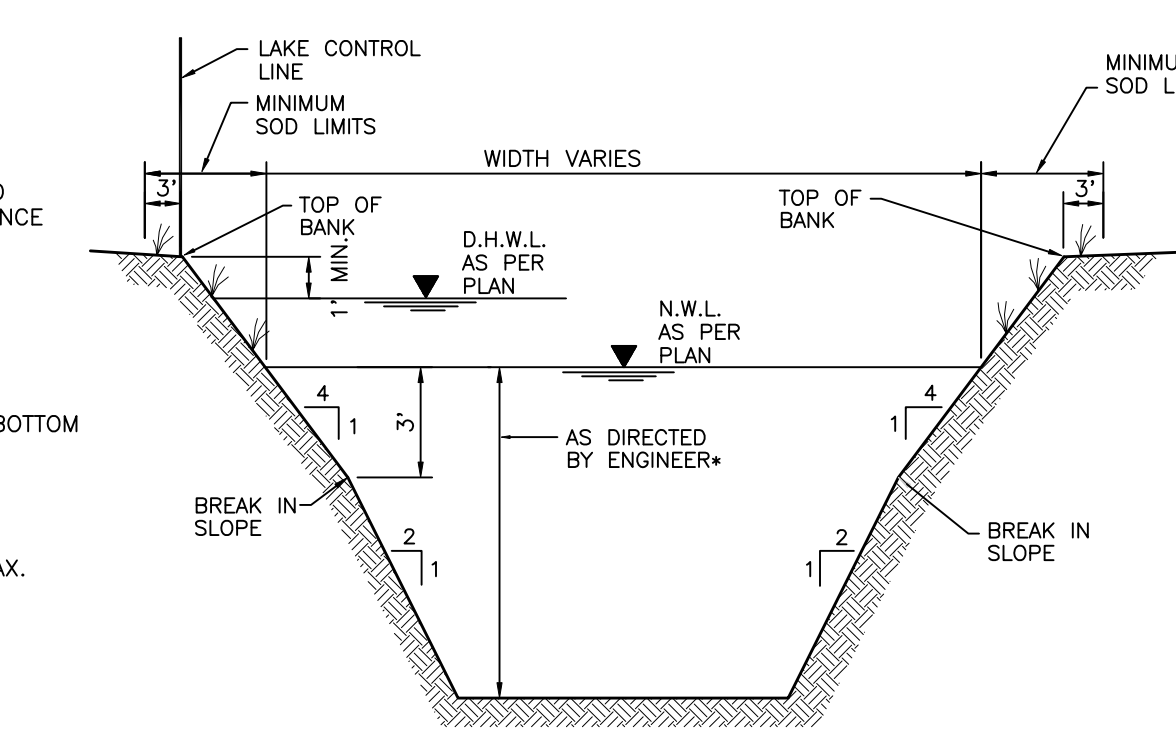
N.T.S.



- NOTE:** SLOPE WILL VARY WITH WIDTH OF LITTORAL SHELF. SHELF TO BE PLANTED WITH NATIVE MARSH PLANTS 3' O.C. OR AS APPROVED.
- SEMI ENCLOSED LITTORAL SHELF TO BEGIN AT APPROXIMATELY N.W.L. AND SLOPE AT A 10:1 SLOPE TO A DEPTH OF 1' BELOW N.W.L., FROM THAT POINT THE SLOPE VARIES OUT TO A DEPTH OF 3' BELOW N.W.L.

TYPICAL LAKE WITH LITTORAL SHELF SECTION

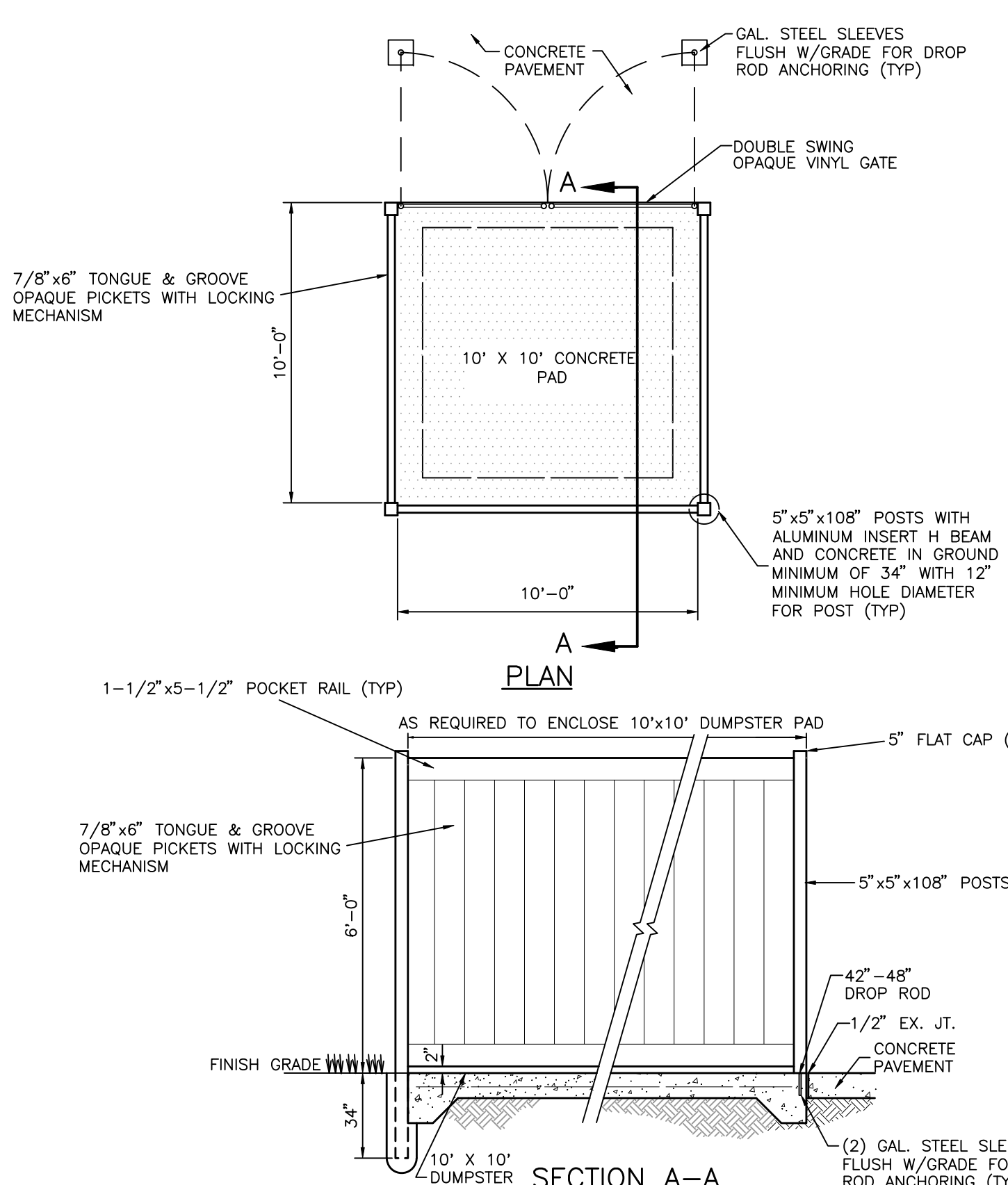
N.T.S.



TYPICAL LAKE SECTION

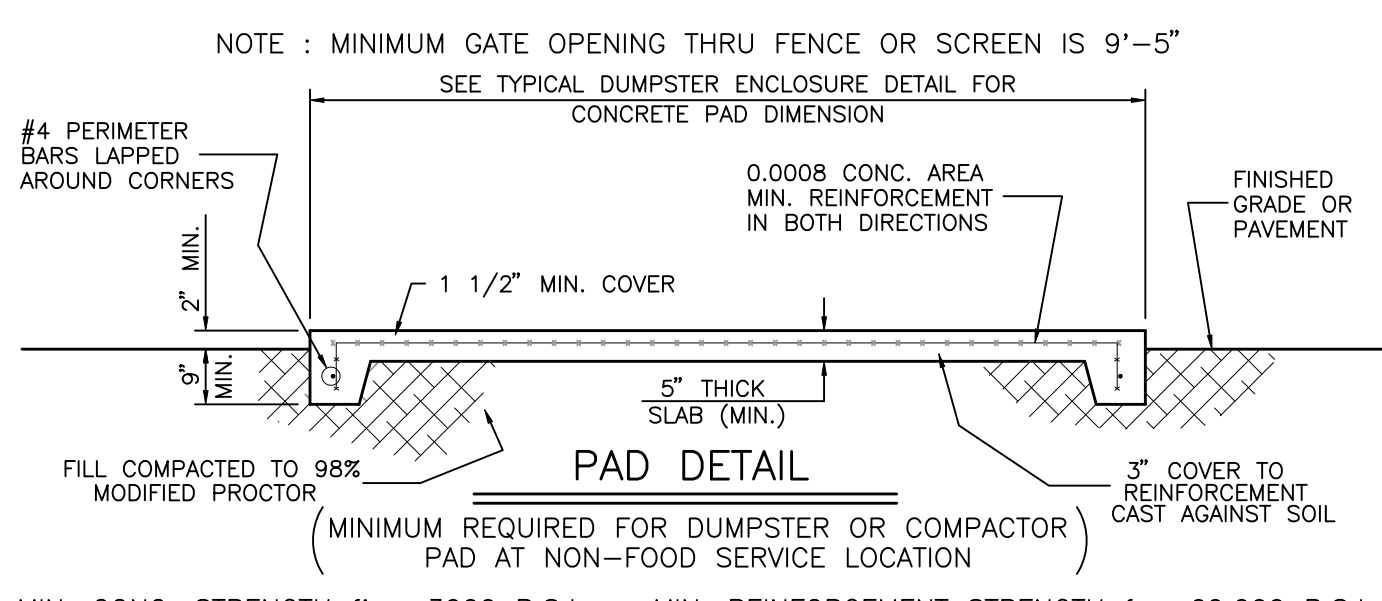
N.T.S.

- *POND #2 SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 8' BELOW N.W.L. POND #3 SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 6' BELOW N.W.L.**



TYPICAL DUMPSTER ENCLOSURE DETAIL

N.T.S.



DUMPSTER PAD TYPICAL DETAILS

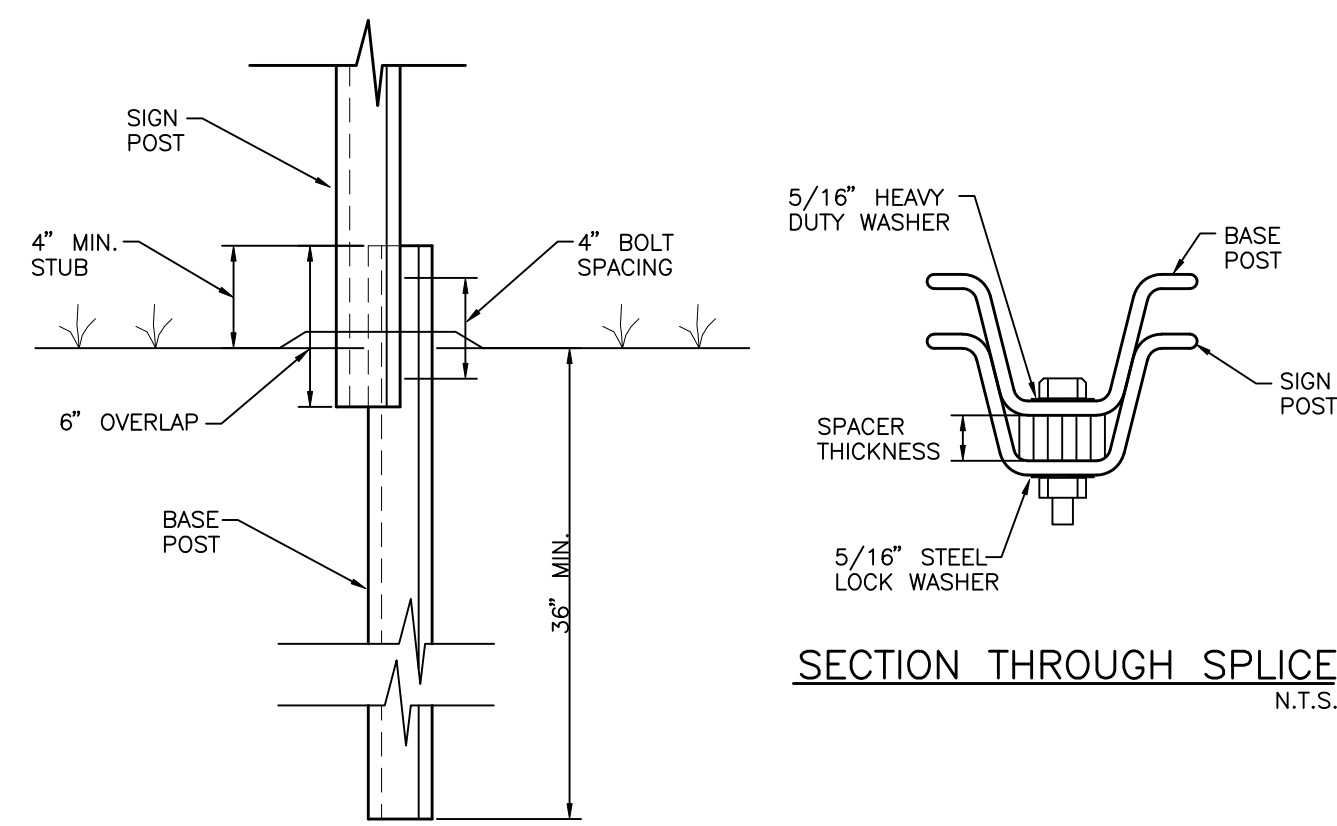
N.T.S.

- MIN. CONC. STRENGTH $f'_c = 3000$ P.S.I. MIN. REINFORCEMENT STRENGTH $f_y = 60,000$ P.S.I.

CLIENT:	MANATEE BOARD OF COUNTY COMMISSIONERS	DATE:	NOVEMBER 2011	TITLE:	TYPICAL SECTIONS AND CONSTRUCTION DETAILS
PROJECT:	FT. HAMER PARK, PHASE II	HORIZONTAL SCALE:	AS SHOWN	INDEX NUMBER:	D-215610582-007
		VERTICAL SCALE:	AS SHOWN	CROSS REFERENCE FILE NO.:	215610582 220
		SEC. TWP. & RISE:	17 34S 19E	PROJECT NUMBER:	215610582 220
				SHEET NUMBER:	7 OF 13

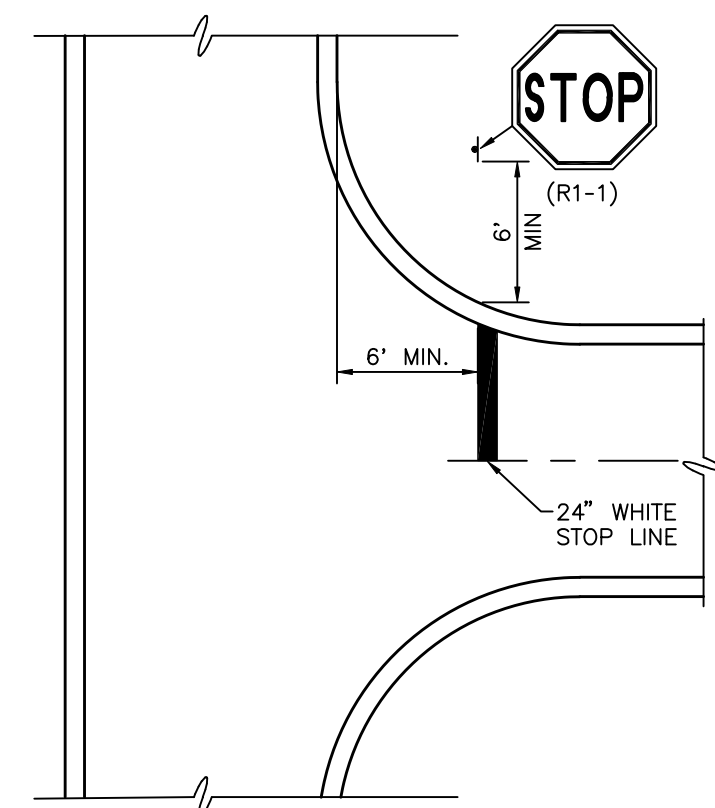


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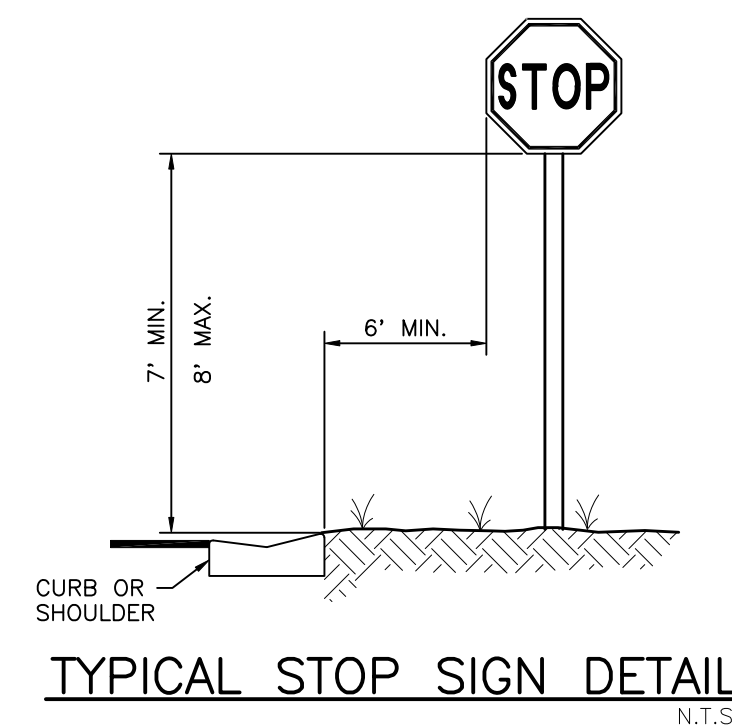


NOTE:
ALL MATERIALS AS PER F.D.O.T.
SPECIFICATIONS, INDEX NO. 11865,
AND ALL APPLICABLE COUNTY REQUIREMENTS.

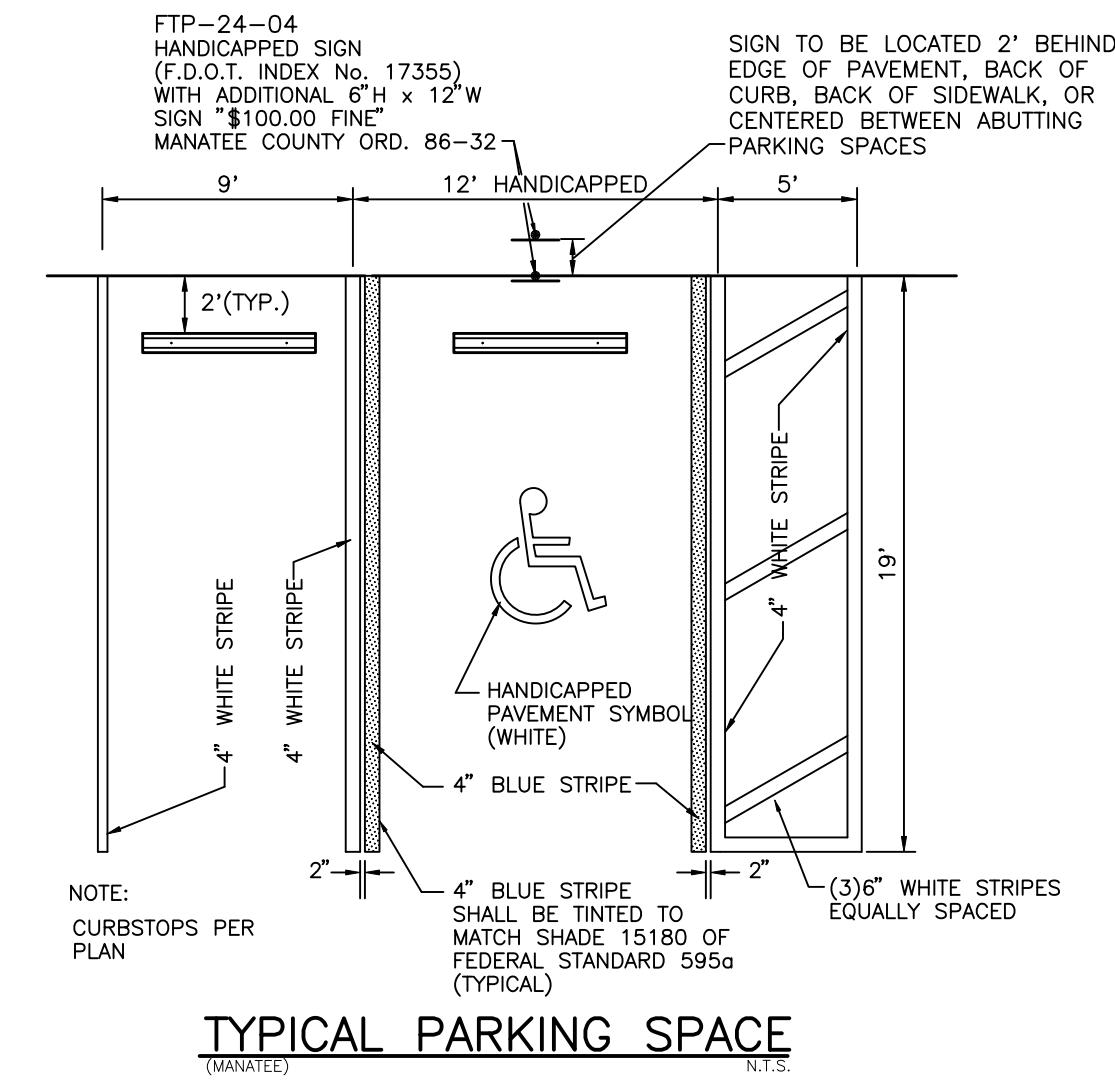
SIGN POST BREAKAWAY DETAIL
S-P027 N.T.S.



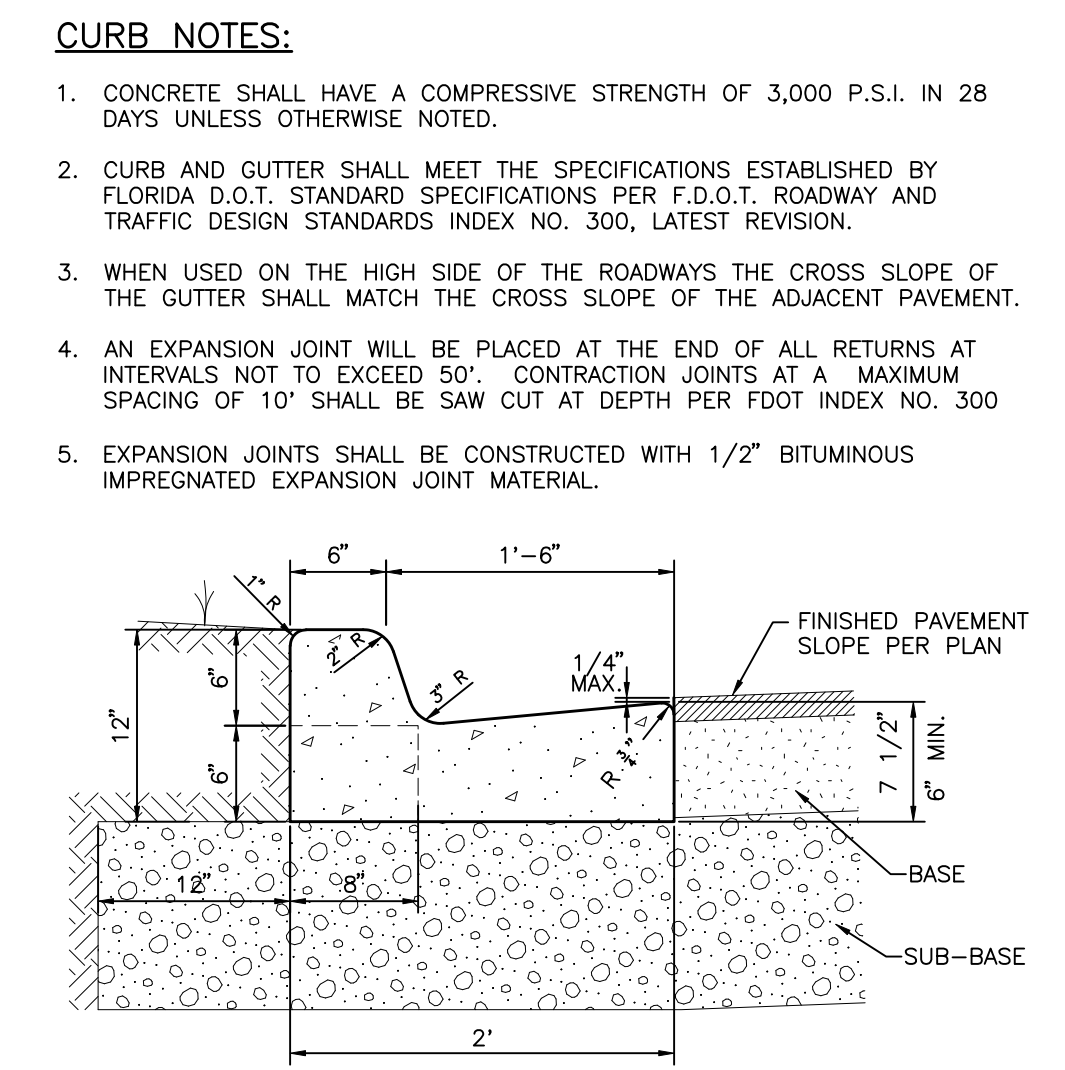
STOP SIGN, STOP LINE DETAIL
N.T.S.



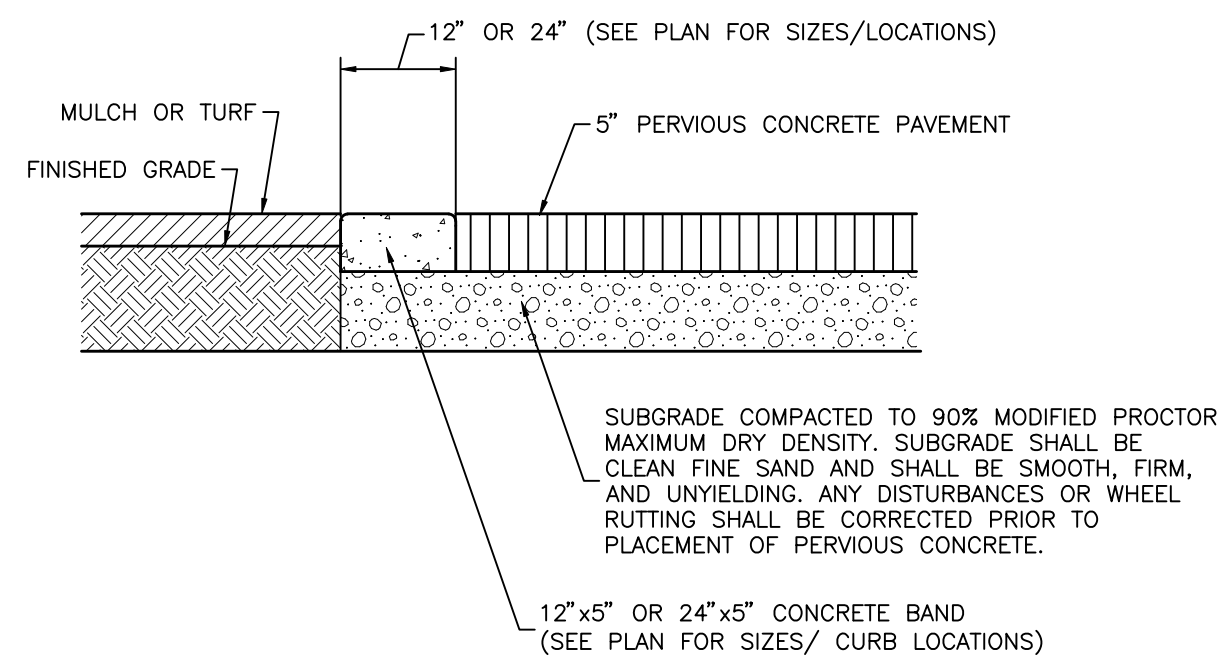
TYPICAL STOP SIGN DETAIL
N.T.S.



TYPICAL PARKING SPACE
(MANATEE) N.T.S.

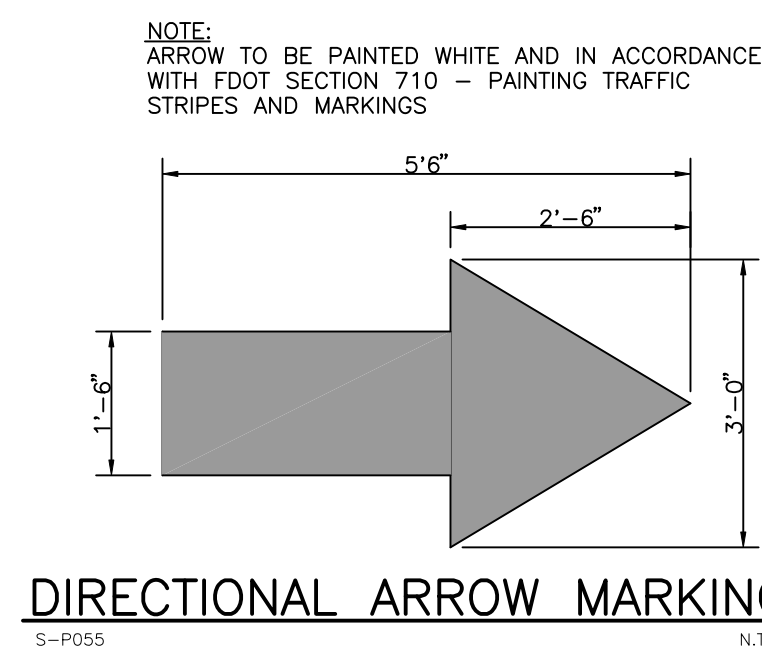


FDOT TYPE "F" CURB
(MANATEE) S-P043(9/25/07) N.T.S.

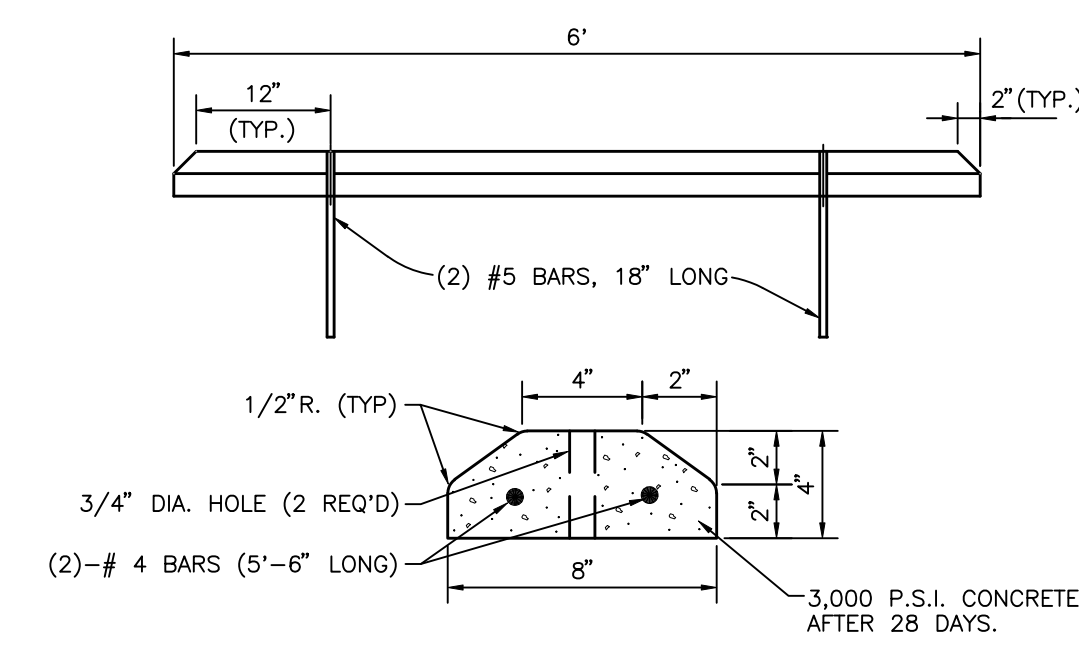


- CURB NOTES:**
- CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 P.S.I. IN 28 DAYS UNLESS OTHERWISE NOTED.
 - AN EXPANSION JOINT WILL BE PLACED AT THE END OF ALL RETURNS AT INTERVALS NOT TO EXCEED 50'. CONTRACTION JOINTS AT A MAXIMUM SPACING OF 10' SHALL BE SAW CUT AT DEPTH PER FDOT INDEX NO. 300
 - EXPANSION JOINTS SHALL BE CONSTRUCTED WITH 1/2" BITUMINOUS IMPREGNATED EXPANSION JOINT MATERIAL.
- PERVIOUS CONCRETE NOTES:**
- THE SUBGRADE SOILS SHALL BE MOISTENED PRIOR TO PLACEMENT OF PERVIOUS CONCRETE.
 - PERVIOUS CONCRETE THICKNESS SHALL BE UNIFORM THROUGHOUT.
 - CONTROL JOINTS SHALL BE PROVIDED IN A PATTERN AS DIRECTED BY THE ENGINEER BUT SHALL NOT EXCEED 8' O.C.E.W.
 - THE PERVIOUS CONCRETE SHALL BE COLORED AT THE PLANT WITH A COLOR TO BE DETERMINED BY THE COUNTY/ENGINEER. THE PLANT SHALL SUPPLY A COLOR SAMPLE OF THE CONCRETE MIX FOR APPROVAL BY THE COUNTY PRIOR TO INSTALLATION.
 - THE CONTRACTOR SHALL SUBMIT A PLANT MIX DESIGN FOR THE PERVIOUS CONCRETE DEMONSTRATING THE UNIT WEIGHT (PCF) AND AIR VOID CONTENT (AVC) OF THE DESIGN MIX.
 - THE CONTRACTOR SHALL PROVIDE LABORATORY TESTING RESULTS DEMONSTRATING THAT THE FRESH PERVIOUS CONCRETE UNIT WEIGHT IS WITHIN 5 PCF (+/-) OF THE MIX DESIGN UNIT WEIGHT AND THE AVC IS WITHIN 3% (+/-) OF 18% AVC.
- 7. THE CONTRACTOR SHALL EMPLOY NO LESS THAN ONE NATIONAL READY MIXED CONCRETE ASSOCIATION (NRMCA) CERTIFIED PERVIOUS CONCRETE CRAFTSMAN WHO MUST BE ON SITE, OVERSEEING EACH PLACEMENT CREW DURING ALL CONCRETE PLACEMENT OR THE CONTRACTOR SHALL EMPLOY NO LESS THAN THREE NRMCA CERTIFIED PERVIOUS CONCRETE INSTALLERS, WHO SHALL BE ON SITE WORKING AS MEMBERS OF EACH PLACEMENT CREW DURING ALL CONCRETE PLACEMENT, OR THE CONTRACTOR SHALL EMPLOY NO LESS THAN FIVE NRMCA CERTIFIED PERVIOUS CONCRETE TECHNICIANS, WHO SHALL BE ON SITE WORKING AS MEMBERS OF EACH PLACEMENT CREW DURING ALL CONCRETE PLACEMENT UNLESS OTHERWISE SPECIFIED. CERTIFIED DOCUMENTATION SHALL BE PROVIDED TO THE COUNTY AND ENGINEER PRIOR TO PERVIOUS CONCRETE INSTALLATION.**

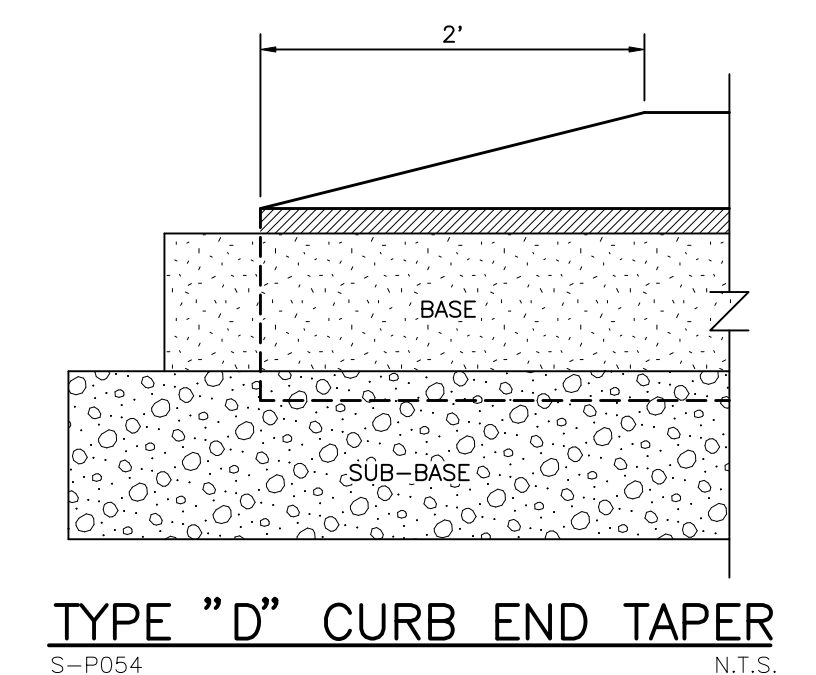
CONCRETE BAND CURB/PERVIOUS CONCRETE DETAIL
N.T.S.



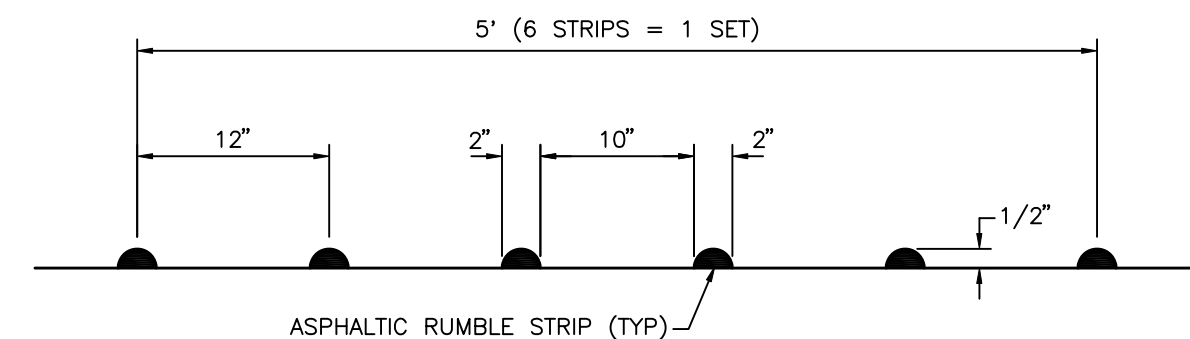
DIRECTIONAL ARROW MARKING
S-P055 N.T.S.



PRECAST CONCRETE WHEEL STOP
S-P029 N.T.S.

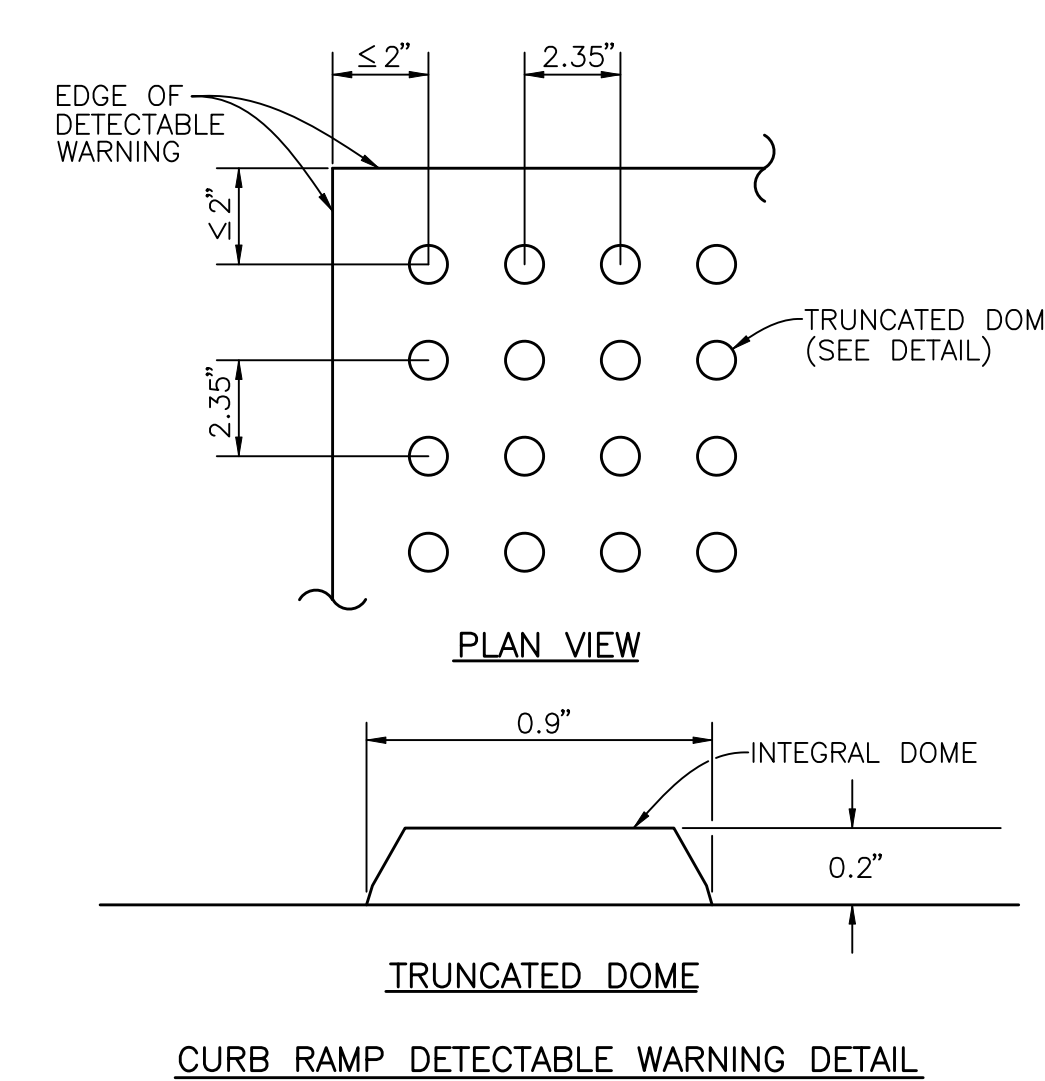


TYPE "D" CURB END TAPER
S-P054 N.T.S.



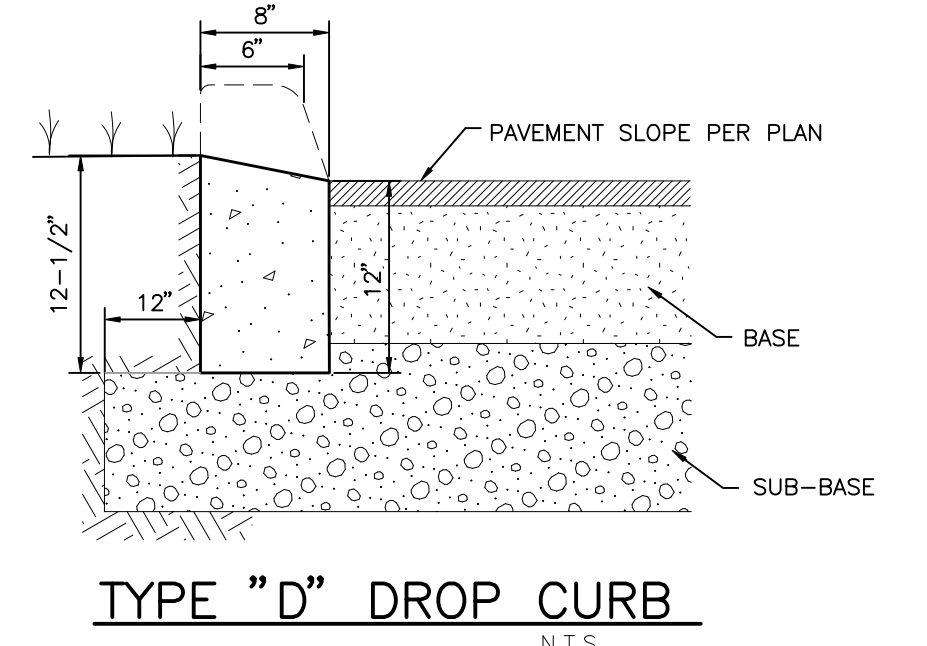
- NOTES:**
- RAISED RUMBLE STRIPS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH SECTION 546 OF THE FOOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
 - RUMBLE STRIP SET SHALL EXTEND FROM CENTERLINE STRIPING TO 1.5 FT FROM EDGE OF TRAVEL WAY.
 - RUMBLE STRIP SET LOCATIONS PER PLAN.

ASPHALT SET RUMBLE STRIPS
N.T.S.

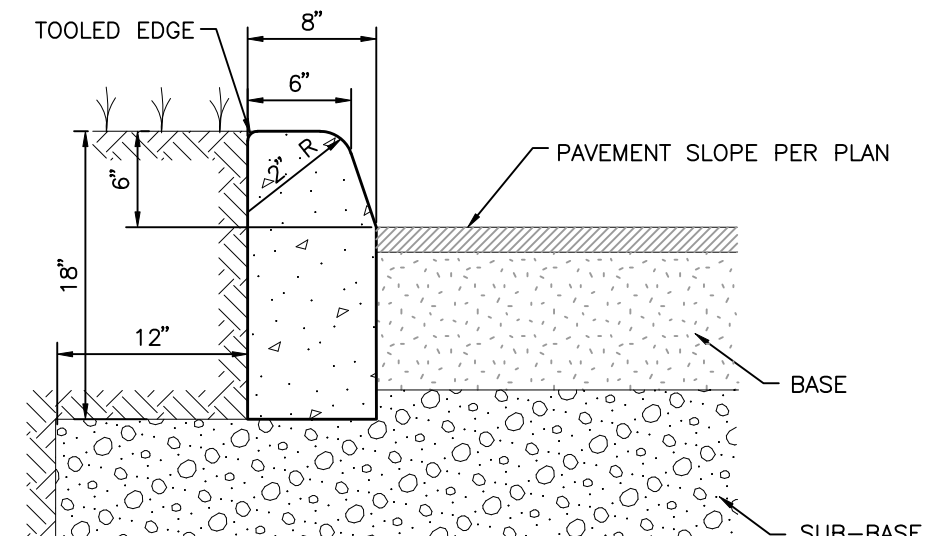


- NOTES:**
- DETECTABLE WARNINGS ON WALKING SURFACES**
- THE DETECTABLE WARNING SHALL EXTEND THE FULL WIDTH AND DEPTH OF THE CURB RAMP.
- DETECTABLE WARNINGS SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCH, A HEIGHT OF NOMINAL 0.2 INCH AND A CENTER-TO-CENTER SPACING OF NOMINAL 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:
- $$\text{CONTRAST} = \frac{B1 - B2}{B1} \times 100$$
- 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.

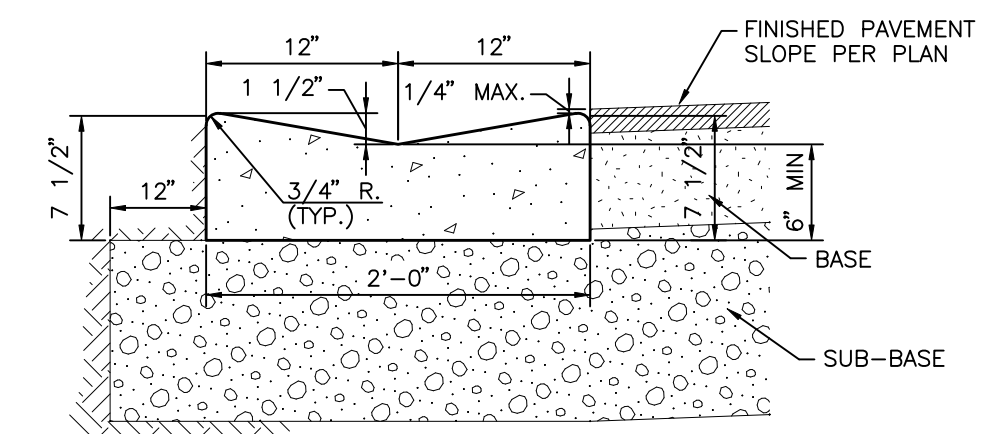
CURB RAMP DETECTABLE WARNINGS
302.3 (6/12/07) N.T.S.



TYPE "D" DROP CURB
N.T.S.

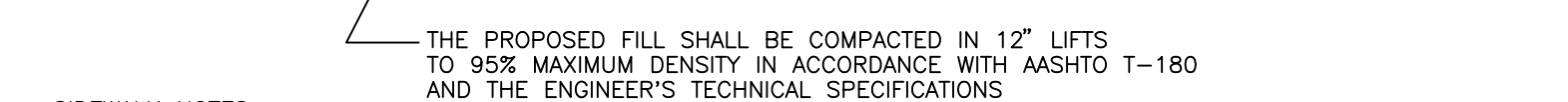


TYPE "D" CURB
(MANATEE) S-P040(09/04/07) N.T.S.



TYPE "W" CURB
N.T.S.

CONCRETE BAND CURB/INTERFACE DETAIL
N.T.S.



- SIDEWALK NOTES:**
- CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 P.S.I. IN 28 DAYS UNLESS OTHERWISE NOTED.
 - CONTRACTION JOINTS SHALL BE SAW CUT TO AN 1" DEPTH AND APPROXIMATELY 3/16" WIDE AT INTERVALS EQUAL TO THE WIDTH OF THE SIDEWALK.
 - AN EXPANSION JOINT WILL BE PLACED AT THE END OF ALL RETURNS, AT FIXED OBJECTS (DRIVEWAYS, CURBS ETC.) AND INTERVALS NOT TO EXCEED 50'. EXPANSION JOINTS SHALL BE CONSTRUCTED WITH 1/2" PREFORMED JOINT FILLER.
 - ALL SIDEWALKS AND SIDEWALK CROSSINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA).

TYPICAL SIDEWALK DETAIL
(MANATEE) N.T.S.

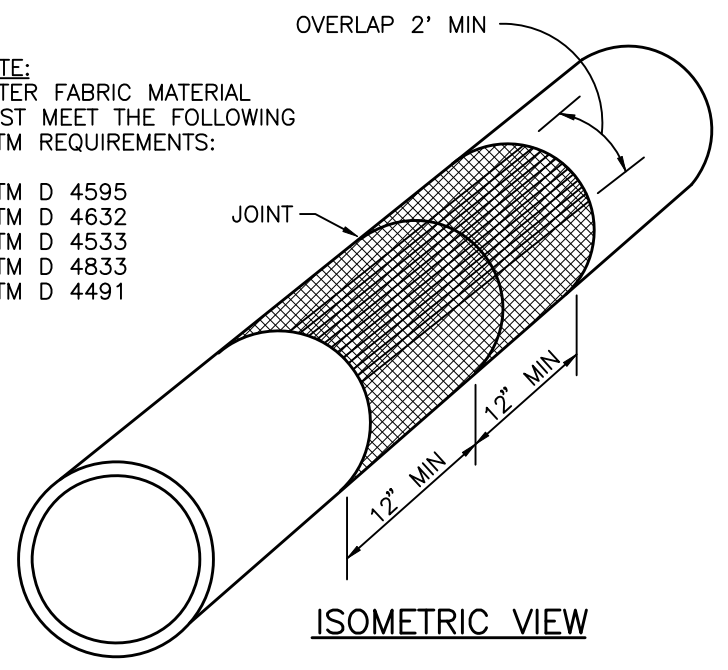
CLIENT:	MANATEE BOARD OF COUNTY COMMISSIONERS	DATE:	NOVEMBER 2011	TITLE:	PAVING DETAILS
PROJECT:	FT. HAMER PARK, PHASE II	HORIZONTAL SCALE:	AS SHOWN	DRAWN BY:	DANIEL J. BOND, P.E.
		VERTICAL SCALE:	AS SHOWN	CHECKED BY:	FLORIDA LICENSE NO. 57969
		CONTRACT ADMIN. BY:		DATE:	INDEX NUMBER:
		WM APPROVED BY:		01/08/13	D-215610582-008
				01/08/13	SHEET NUMBER:
				01/08/13	8 OF 13
				01/08/13	



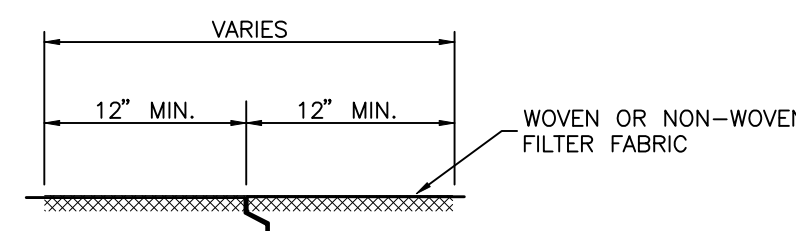
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NOTE:
FILTER FABRIC MATERIAL
MUST MEET THE FOLLOWING
ASTM REQUIREMENTS:

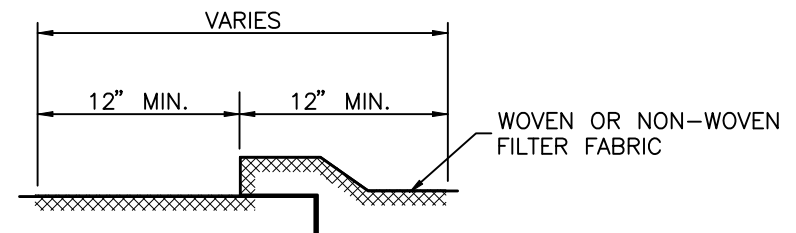
- ASTM D 4595
- ASTM D 4632
- ASTM D 4533
- ASTM D 4833
- ASTM D 4491



ISOMETRIC VIEW



BUTT JOINT



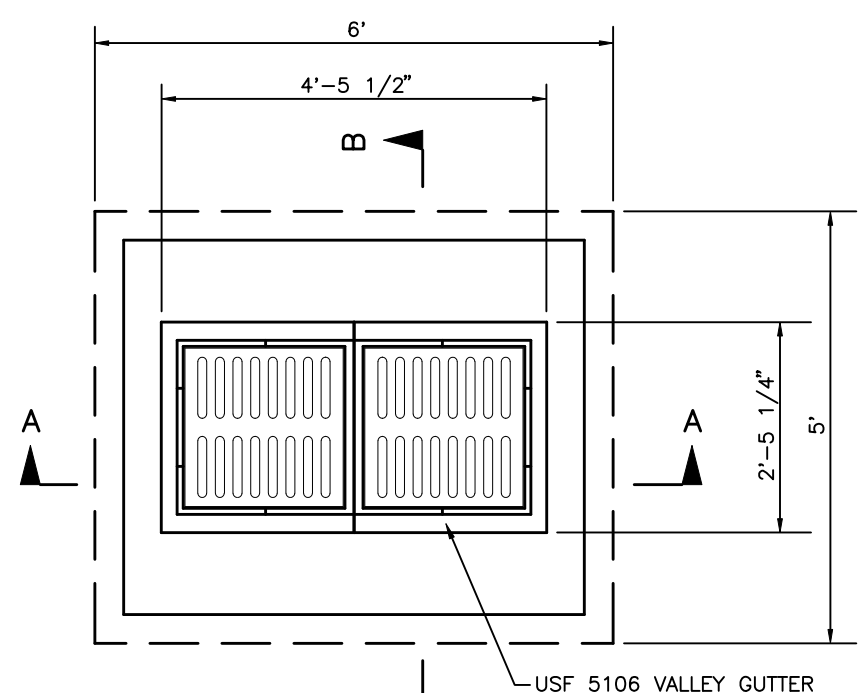
BELL JOINT

- NOTES:
- CENTER FILTER FABRIC ON PIPE JOINT.
 - FILTER FABRIC TO OVERLAP A MIN. OF ONE FOOT.
 - PRICE OF FILTER FABRIC JACKET TO BE INCLUDED IN PRICE OF PIPE.

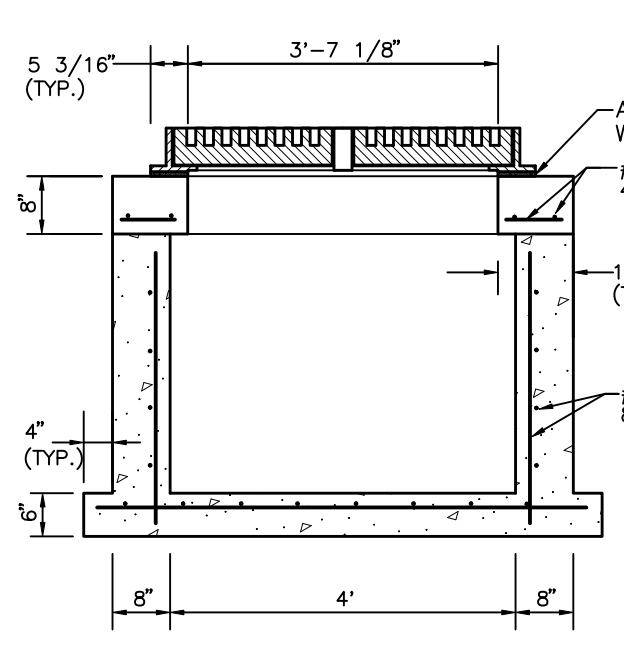
FILTER FABRIC JACKET
N.T.S.

VALLEY GUTTER INLET DETAIL NOTES:

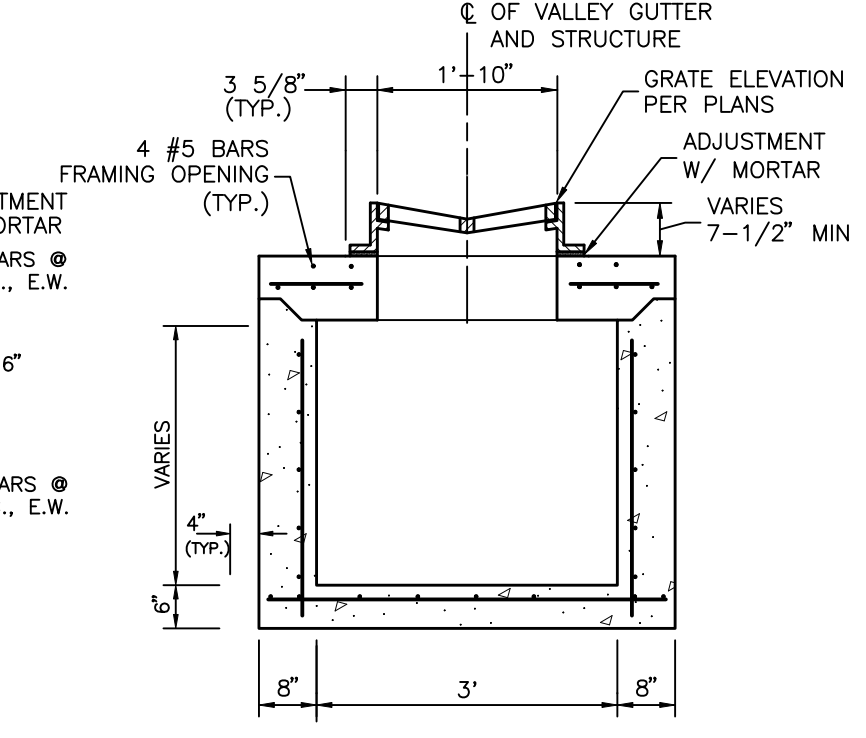
- ALTERNATE BOX DIMENSIONS MAY BE USED SUCH AS FDOT TYPE "F" AND "J" BOTTOM TO ACCOMMODATE THE UNDERGROUND PIPING SERVING IT.
- POUR CONCRETE INVERT AFTER INLET AND PIPE ARE PLACED IN GROUND, 3000 PSI @ 28 DAYS.



PLAN

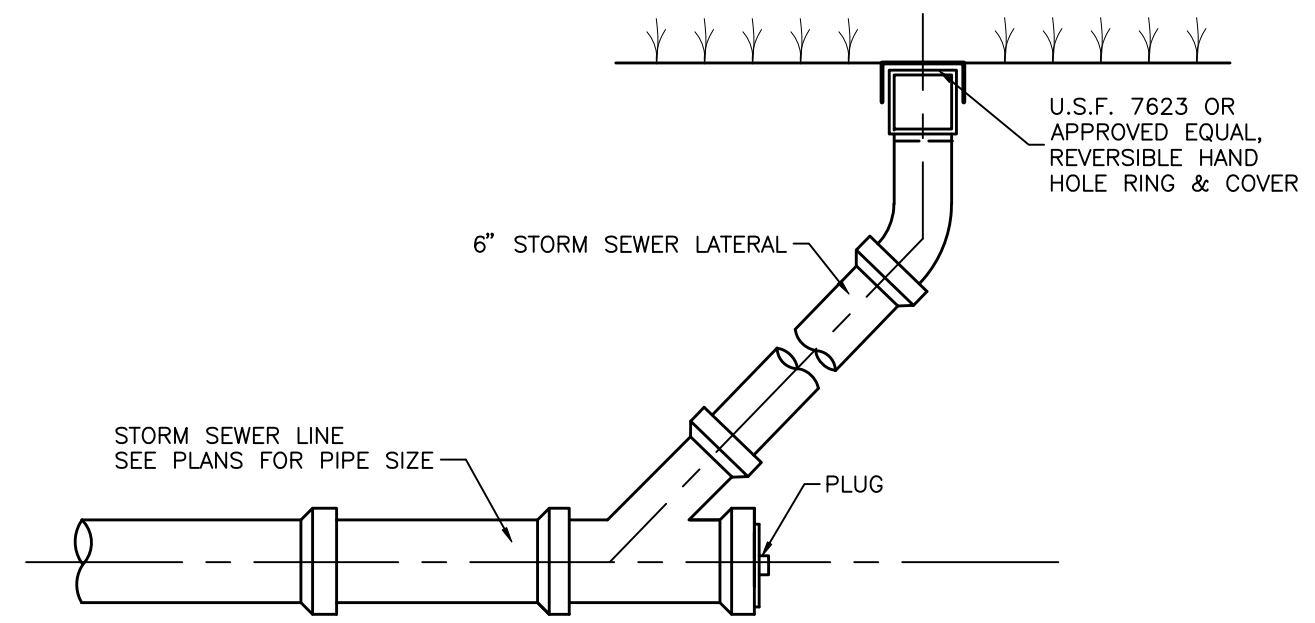


SECTION A-A

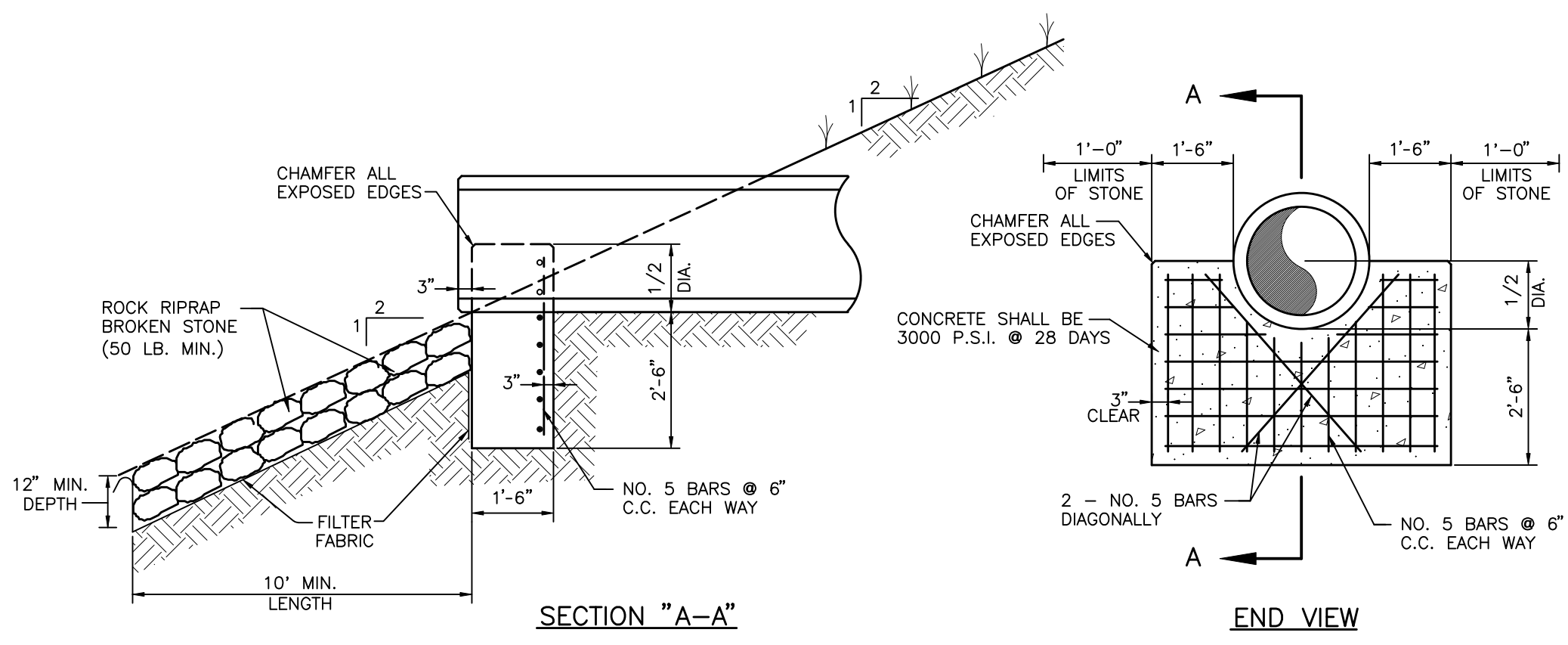


SECTION B-B

VALLEY GUTTER INLET DETAIL
N.T.S.



STORM CLEANOUT DETAIL
N.T.S.

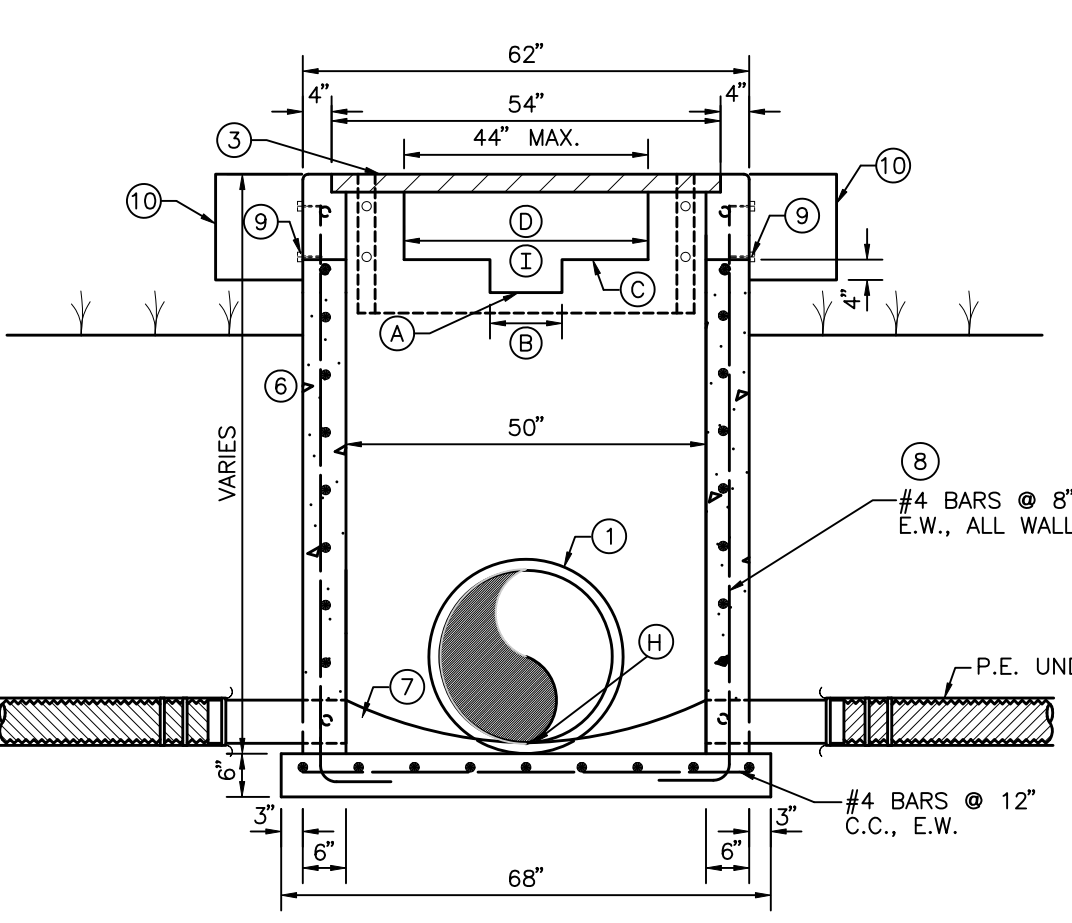


SECTION "A-A"

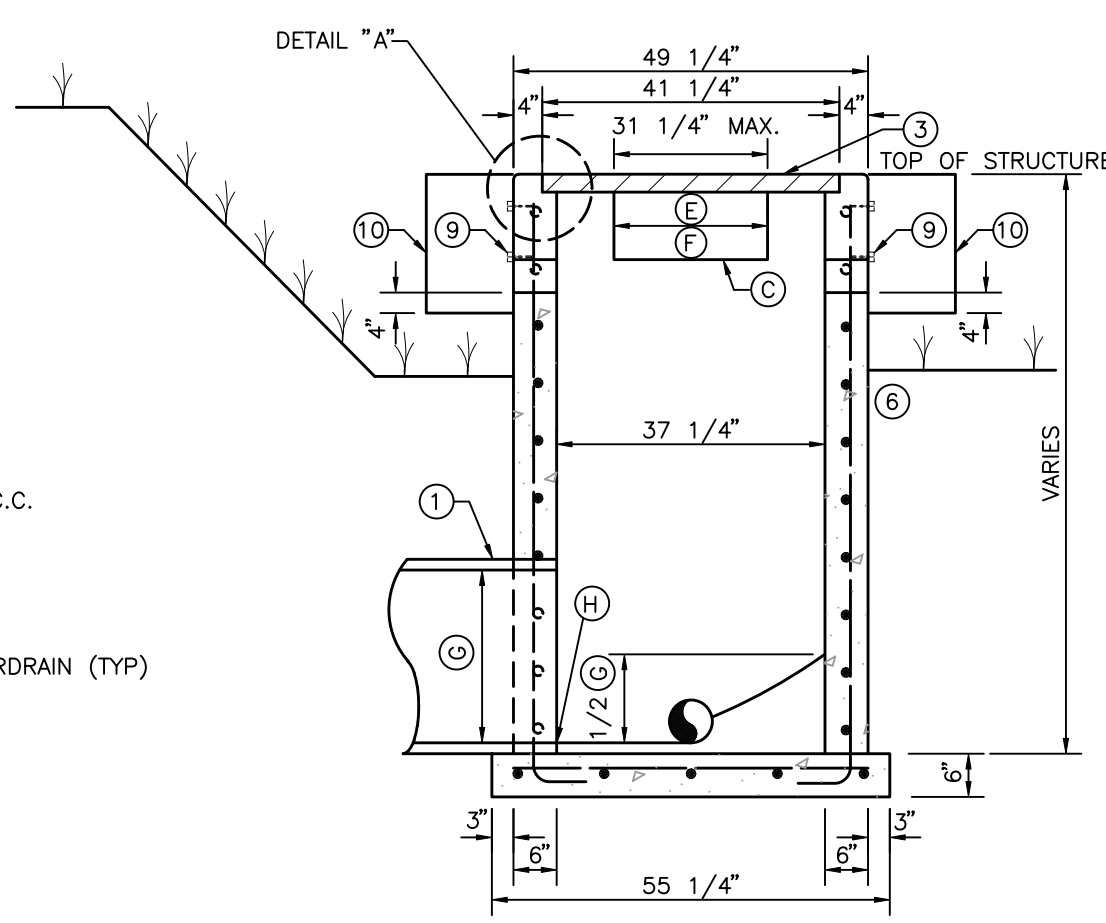
END VIEW

- NOTES:
- CONCRETE SHALL BE 3000 P.S.I. @ 28 DAYS.
 - CHAMFER ALL EXPOSED EDGES 3/4".
 - RIPRAP SHALL BE SUPPLIED AND CONSTRUCTED AS DEFINED IN THE F.D.O.T. SPECIFICATIONS SEC. 530, RIPRAP, SPECIFICALLY SEC. 530-3.3 RUBBLE. NO BROKEN CONCRETE SHALL BE USED.
 - FILTER FABRIC SHALL BE SUPPLIED AND CONSTRUCTED AS DEFINED IN THE F.D.O.T. SPECIFICATIONS SEC. 514, PLASTIC FILTER FABRIC, SPECIFICALLY SEC. 514-3.4 RIPRAP, INCLUDED IN UNIT COST OF ENDWALL.

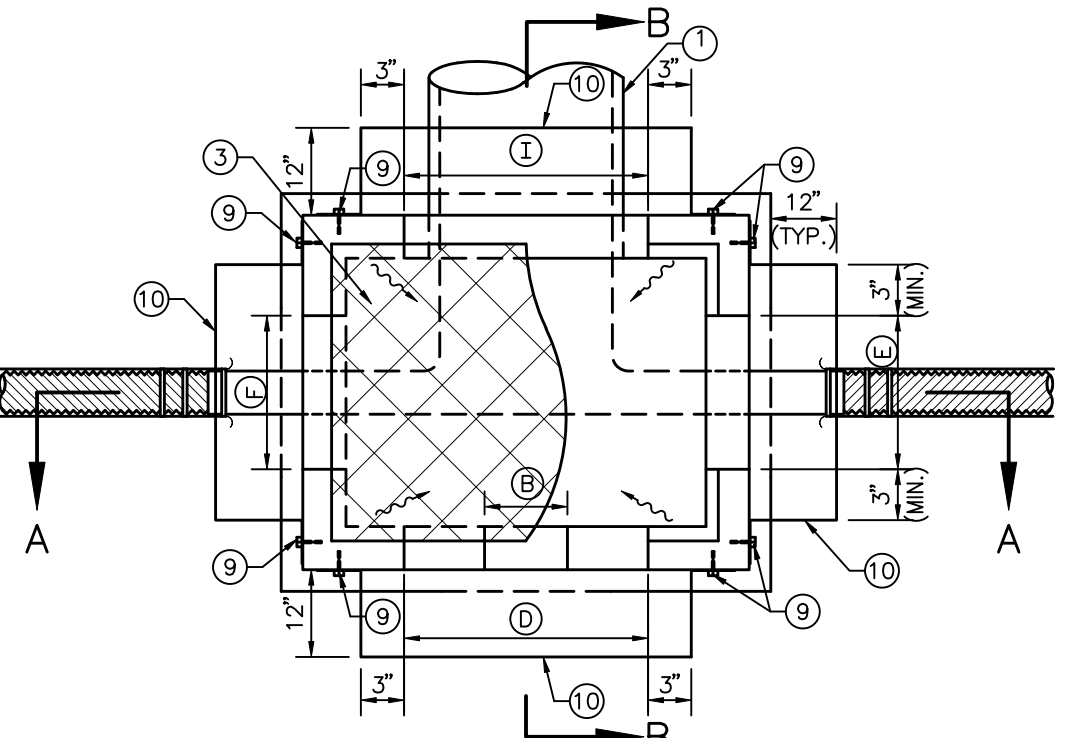
ENDWALL DETAIL
S-0010 N.T.S.



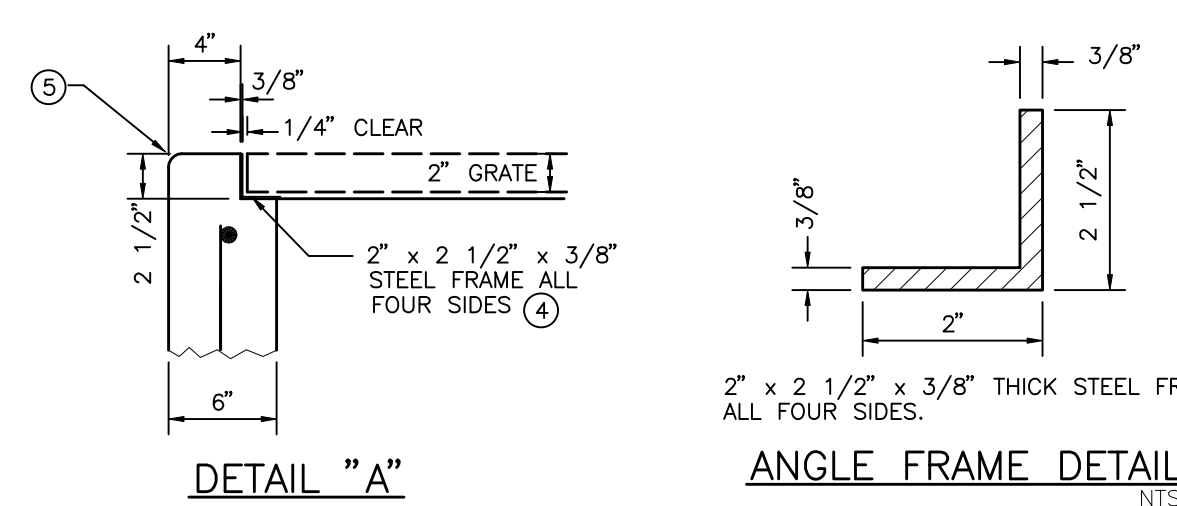
SECTION A-A



SECTION B-B



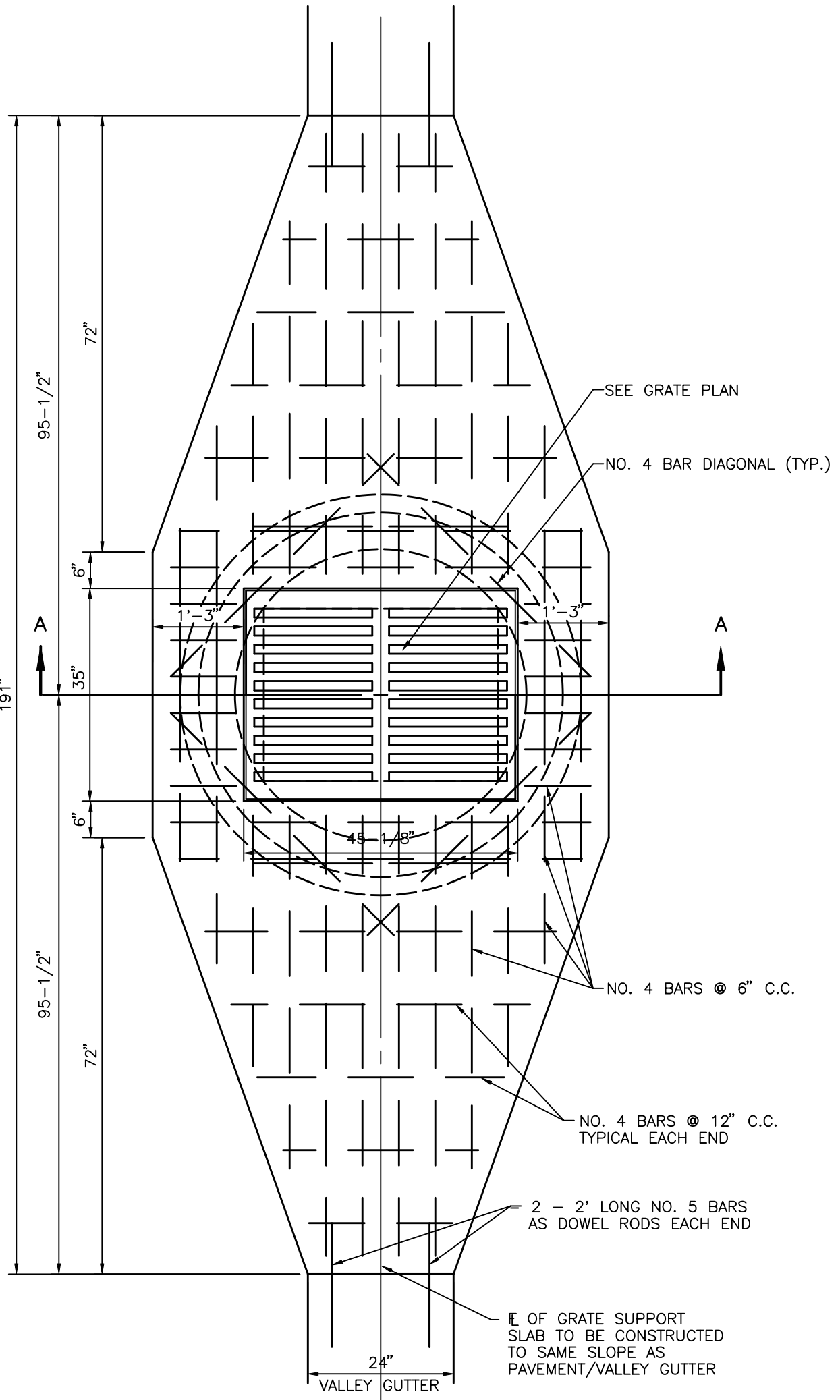
PLAN



DETAIL "A"

ANGLE FRAME DETAIL

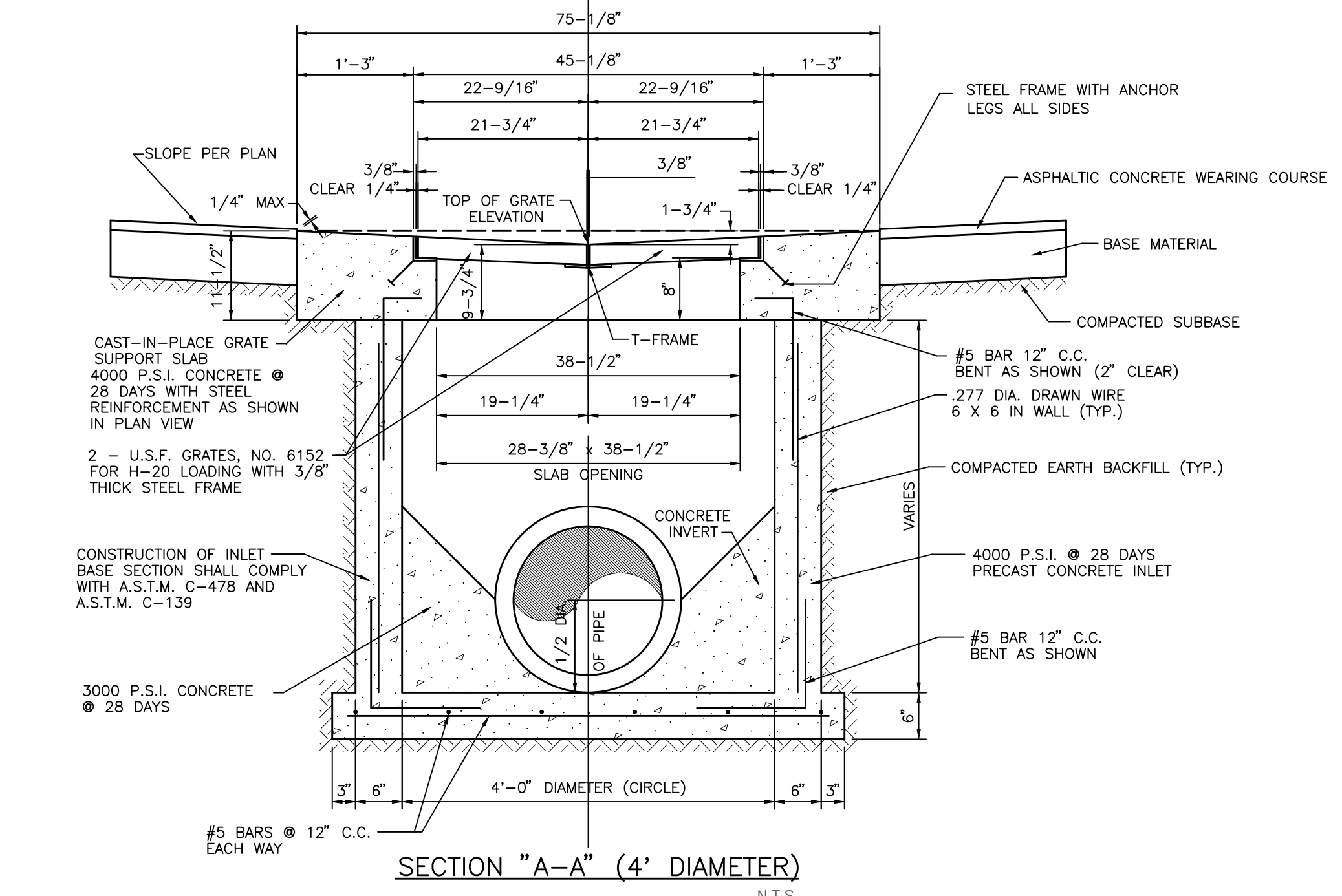
- NOTES:
- SEE STORM PIPING PLAN DRAWINGS FOR PIPE SIZE, ALIGNMENT, FLOWLINE AND GRATE ELEVATIONS
 - BENCH MARK REQUIRED TO BE SET ON STRUCTURE AFTER CONSTRUCTION IS COMPLETE. ELEVATION TO BE NOTED IN RECORD DRAWINGS.
 - U.S.F. GRATE NO. 6615 (STEEL 40" x 52 11/16" x 2")
 - FRAME & GRATE SHALL BE OF STEEL CONSTRUCTION COATED WITH 2 APPLICATIONS OF BLACK ENAMEL, 4.0 MILS DRY FILM THICKNESS EACH COAT, & MILS TOTAL COATING SHALL MEET OR EXCEED FDOT SPECIFICATION 971-B. CONTRACTOR SHALL APPLY ONE FIELD COAT TO ANY BARE AREAS AS DETERMINED BY ENGINEER.
 - 3/4" CHAMFER ALL EXPOSED EDGES.
 - 3000 PSI CONCRETE @ 28 DAYS SHALL BE USED THROUGHOUT.
 - POURED CONCRETE INVERT AFTER INLET AND PIPE PLACED IN GROUND, 3000 PSI @ 28 DAYS.
 - REINFORCING STEEL SHALL BE INTERMEDIATE GRADE BILLET WITH DEFORMATIONS CONFORMING TO ASTM A-615-76A. ALL STEEL SHALL BE 1 1/2" CLEAR UNLESS OTHERWISE NOTED.
 - 3/8" DIAMETER STAINLESS STEEL EXPANSION ANCHORS, 3" LONG MINIMUM WITH STAINLESS STEEL WASHERS AND NUTS, IF HEIGHT OF SKIMMER IS 12" OR LESS, 2 EACH SIDE REQUIRED. IF SKIMMER IS OVER 12" HEIGHT, SPACE BOLTS ONE FOR EACH 6" C.C. MAXIMUM SPACING EACH SIDE OF SKIMMER.
 - 3/16" THICK STAINLESS STEEL, 1/4" THICK ALUMINUM OR 3/16" GLASSKIMER HSS-HIGH STRENGTH COMPOSITE SHEET SKIMMER PLATE WITH OPEN TOP AND BOTTOM. SKIMMER TO EXTEND 4" BELOW NOTCH ELEVATION.
 - STAKEOUT POINT TO BE CENTER OF STRUCTURE. FIELD LOCATION TO FIT LAKE BANK OR FILL SLOPE MAY BE NECESSARY. LOCATION TO BE REVIEWED BY ENGINEER OR HIS REPRESENTATIVE.
 - PROVIDE MINIMUM 6" CLEARANCE UNDER SKIMMER.



PLAN VIEW FOR FLEXIBLE PAVEMENT WITH INVERTED CROWN

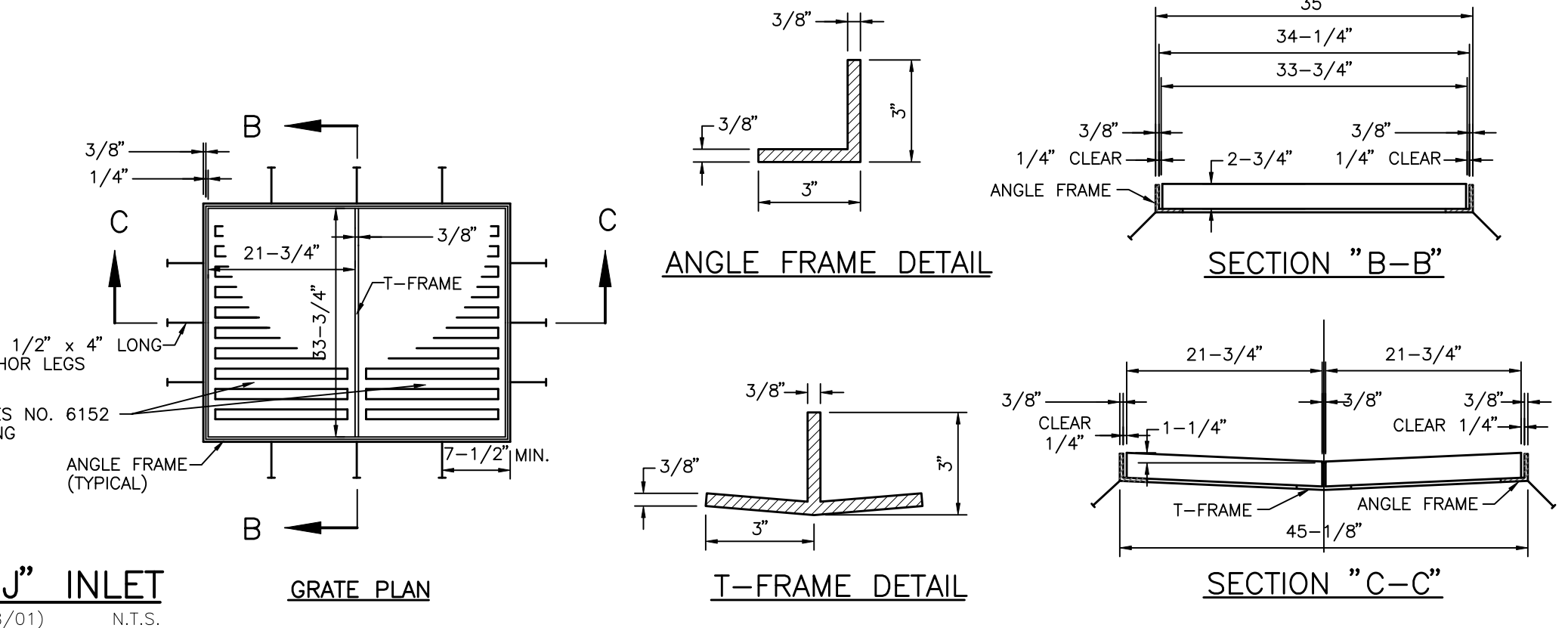
- NOTES:
- MATERIAL: GRATE-CAST IRON, FIELD APPLY ONE COAT OF ASPHALTIC PAINT. FRAME-STEEL, FIELD APPLY ONE COAT OF ASPHALTIC PAINT.
 - SEE DRAINAGE PLANS AND/OR STORMPILING PLANS FOR PIPE SIZES, FLOWLINES AND DIRECTION. SEE UNDERDRAIN PLANS AND/OR DRAINAGE PLANS FOR UNDERDRAIN SIZES, FLOWLINES AND DIRECTION.
 - CONCRETE TEST CYLINDERS (3 MIN) SHALL BE TAKEN FOR EACH DAYS POUR OR EACH 50 YARDS WHICH EVER IS GREATER

TYPE "J" INLET
S-0001(11/18/01) N.T.S.



SECTION "A-A" (4' DIAMETER)

OVERSIZED INLET NOTE: INLETS FOR PIPE LARGER THAN 30" CIRCULAR OR 19" x 30" OVAL SHALL BE CONSTRUCTED AS PER FDOT INDEX #200 ALTERNATE "B". TOP SLAB OF THE FDOT BOX SHALL HAVE A 30" x 40" OPENING. GRATE SUPPORT SHALL BE CONSTRUCTED ABOVE & CENTERED ON THE FDOT INLET BOX AS SHOWN IN THE PLAN VIEW AND SECTION A-A. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL. THERE SHALL BE 1/2" OF MORTAR BETWEEN THE GRATE SUPPORT SLAB AND THE TOP SLAB OF THE FDOT INLET BOX.



ANGLE FRAME DETAIL

SECTION "B-B"

SECTION "C-C"

STRUCTURE NUMBER	NORMAL WATER LEVEL (FT-NGVD)	TOP GRATE EL. (FT-NGVD)	(A) FL. EL. OF NOTCH (FT-NGVD)	(B) WIDTH OF NOTCH (FT)	(C) FL. EL. OF WINDOW (FT-NGVD)	(D) WIDTH OF WINDOW (FT)	(E) WIDTH OF WINDOW (FT)	(F) WIDTH OF WINDOW (FT)	(G) DIAMETER OF OUTFALL PIPE (IN)	(H) PIPE FL. EL. (FT-NGVD)	(I) WIDTH OF WINDOW (FT)	SPECIAL REMARKS
CS-1	N/A	5.30	N/A	N/A	4.59	2.33*	2.59	N/A	24	0.45	2.33*	SKIMMER REQUIRED ALL WINDOWS UNDERDRAIN REQUIRED (INVERT = 3.0 FT-NGVD)
CS-2	6.00	7.20	6.00	0.19	6.40	3.59	2.58	2.58	30	2.20	N/A	SKIMMER REQUIRED ALL WINDOWS NO UNDERDRAIN REQUIRED

*NOTE: WINDOWS SHALL BE OFFSET AS CLOSE TO THE EAST SIDE OF STRUCTURE AS POSSIBLE.

TYPE "G" CONTROL STRUCTURE
S-0020(02/02/09) N.T.S.

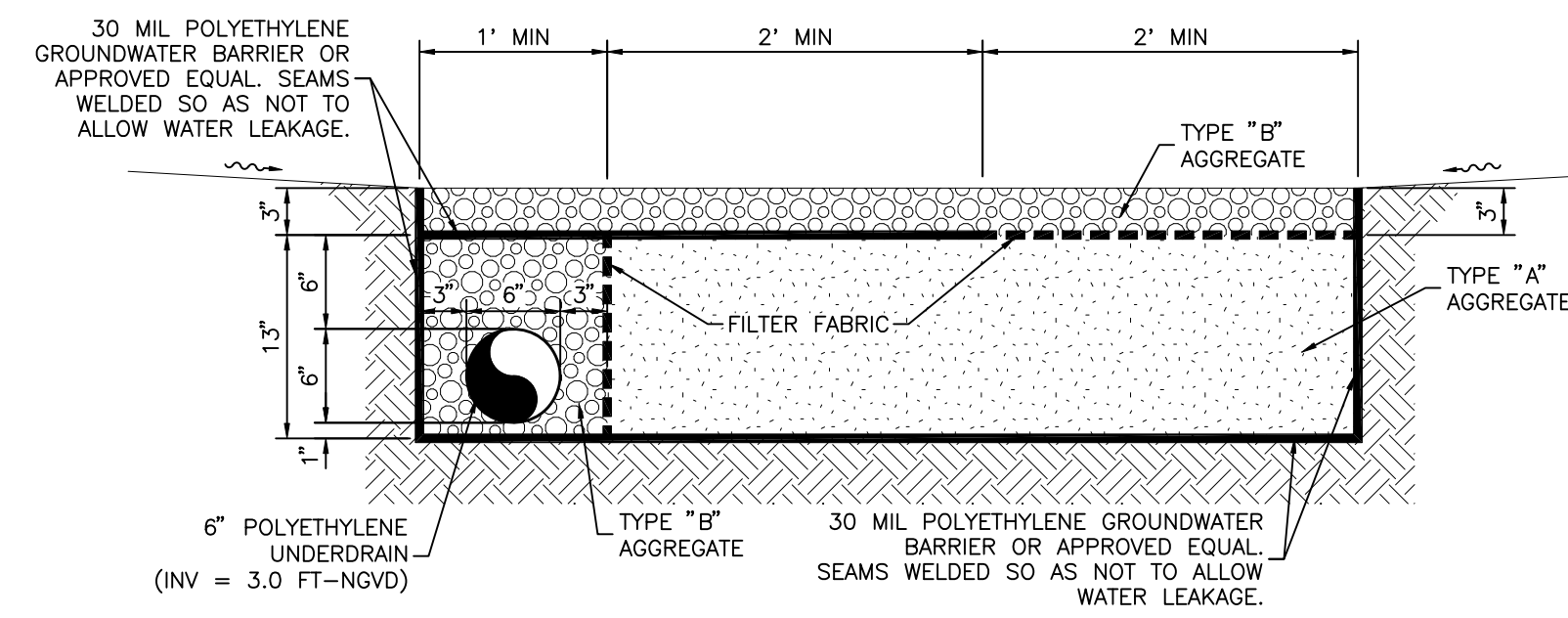
REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:	ACTIVITY	INITIALS/EMP. NO.	DATE
						DESIGNED BY:		
						DRAWN BY:	ATO/89520	11/17/11
						CHECKED BY:		
						CONTRACT ADMIN. BY:		



6900 Professional Parkway East, Sarasota, FL 34240
Phone: 941-903-6900 • Fax: 941-903-6910
Certificate of Authorization #43 • FL Lic. #LC 0000170 • www.stantec.com

CLIENT: MANATEE BOARD OF COUNTY COMMISSIONERS
PROJECT: FT. HAMER PARK, PHASE II

DATE: NOVEMBER 2011
HORIZONTAL SCALE: AS SHOWN
VERTICAL SCALE: AS SHOWN
SHEET NUMBER: 17 OF 345 19E
TITLE: DRAINAGE DETAILS
INDEX NUMBER: D-215610582-009
SHEET NUMBER: 9 OF 13
PROJECT NUMBER: 215610582 220



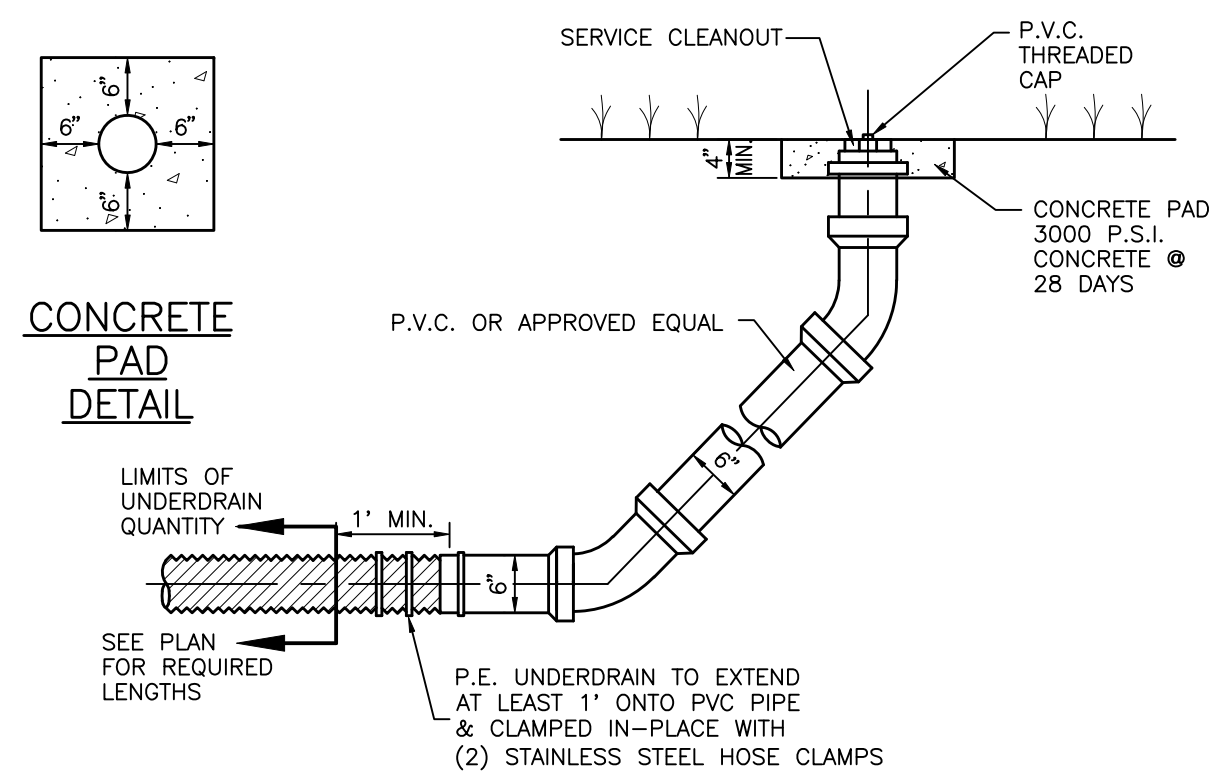
UNDERDRAIN NOTES:
 TYPE "A" AGGREGATE: FILTER AGGREGATE FOR UNDERDRAINS SHALL CONSIST OF WASHED MATERIAL MEETING FDOT ROAD & BRIDGE SPECIFICATIONS FOR SILICA SAND & QUARTZ GRAVEL CONTAINING LESS THAN 1% (BY WEIGHT) OF SILT, CLAY AND ORGANIC MATTER. SAID MATERIAL SHALL HAVE UNIFORMITY COEFFICIENT OF 1.5 OR GREATER, AN EFFECTIVE GRAIN SIZE OF 0.20 - 0.55 MILLIMETER AND SIEVE ANALYSIS (IN PERCENT OF TOTAL WEIGHT PASSING) AS FOLLOWS:

3/8"	= 95 - 100%
NO. 4	= 95 - 100%
NO. 8	= 100%
NO. 16	= 97%
NO. 30	= 70%
NO. 50	= 35%
NO. 100	= 0 - 7%
NO. 200	= MAX. 1%

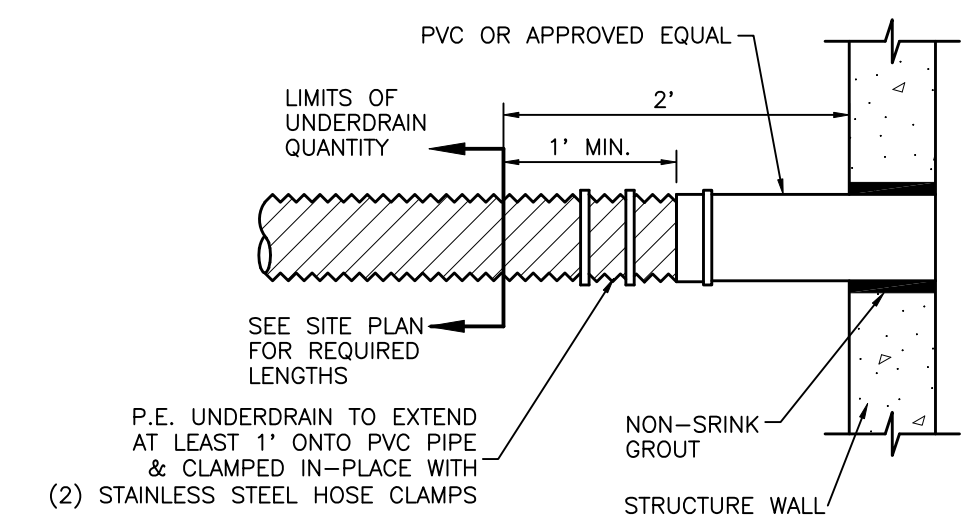
THE AGGREGATE SHALL BE FREE OF ORGANIC MATTER AND OTHER DELETERIOUS MATERIALS. WASHED SHELL & LIMEROCK SHALL NOT BE USED FOR FILTER AGGREGATE. PERMEABILITY OF THE AGGREGATE SHALL BE MINIMUM OF 8 FT/HR.
 TYPE "B" AGGREGATE: 3/4" TO 1" STONE, RIVER GRAVEL OR EQUAL (NO LIMEROCK, MARL, OR SIMILAR MATERIAL).
 FILTER FABRIC: FILTER FABRIC SHALL BE WOVEN GEOTEXTILE, AMOCO 1198 SYNTHETIC INDUSTRIES EROSION 1 OR APPROVED EQUAL.

UNDERDRAIN: THE UNDERDRAIN SHALL BE SLOTTED POLYETHYLENE CORRUGATED PIPE A.S.T.M F-405-77 OR A.A.S.H.T.O. M-252 HAVING A MINIMUM SLOTTED AREA OF 1 SQ. IN./FT. OF PIPE MANUFACTURED BY A.D.S. OR HANCOR. NO FACTORY INSTALLED SOCK SHALL BE INSTALLED WITH THIS UNDERDRAIN.
TESTING: THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH SIEVE ANALYSIS & PERCOLATION TEST RESULTS PERFORMED BY AN INDEPENDENT TESTING LABORATORY PRIOR TO DELIVERY OF THE FILTER AGGREGATE MATERIAL ON SITE. FAILURE TO MEET THE SPECIFIED PERMEABILITY OR SIEVE ANALYSIS WILL BE CAUSE FOR REJECTION OF THE MATERIAL. THE CONTRACTOR SHALL ALSO PROVIDE THE ENGINEER WITH SIEVE ANALYSIS & PERCOLATION TEST RESULTS OF THE FILTER AGGREGATE RECEIVED AT THE SITE PRIOR TO IT BEING PUT IN PLACE. THIS TEST SHALL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY.

TYPICAL SHALLOW BOTTOM TREATMENT UNDERDRAIN
 N.T.S.



CLEANOUT DETAIL FOR SINGLE UNDERDRAIN FILTER SYSTEM
 N.T.S.



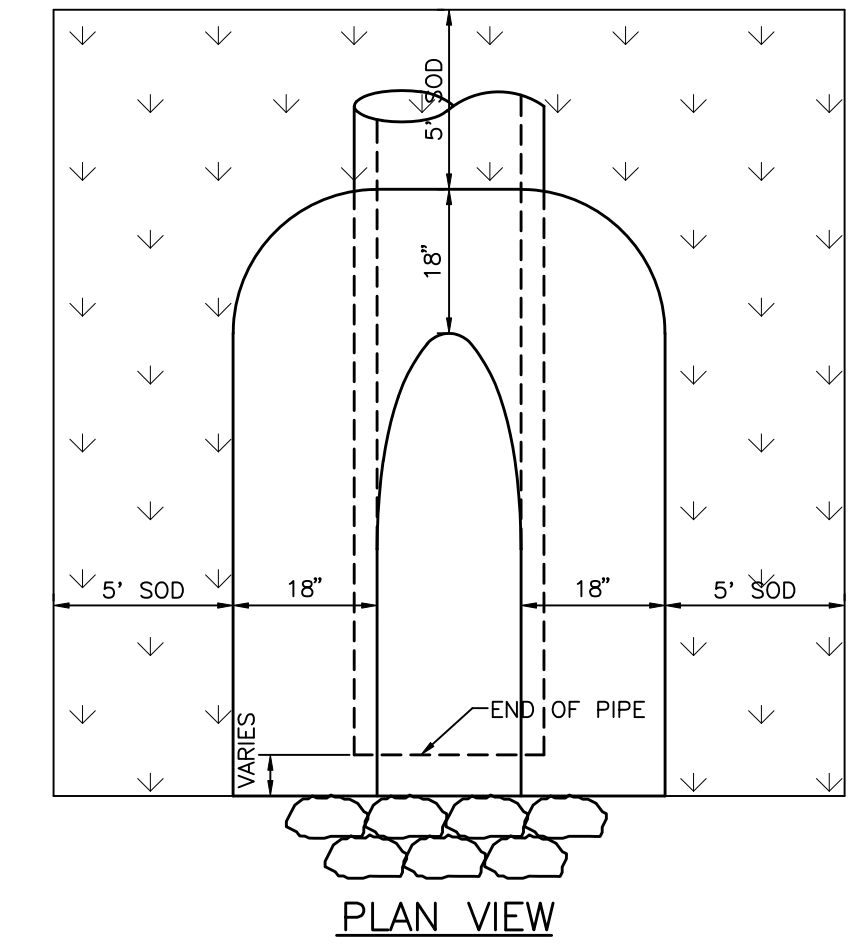
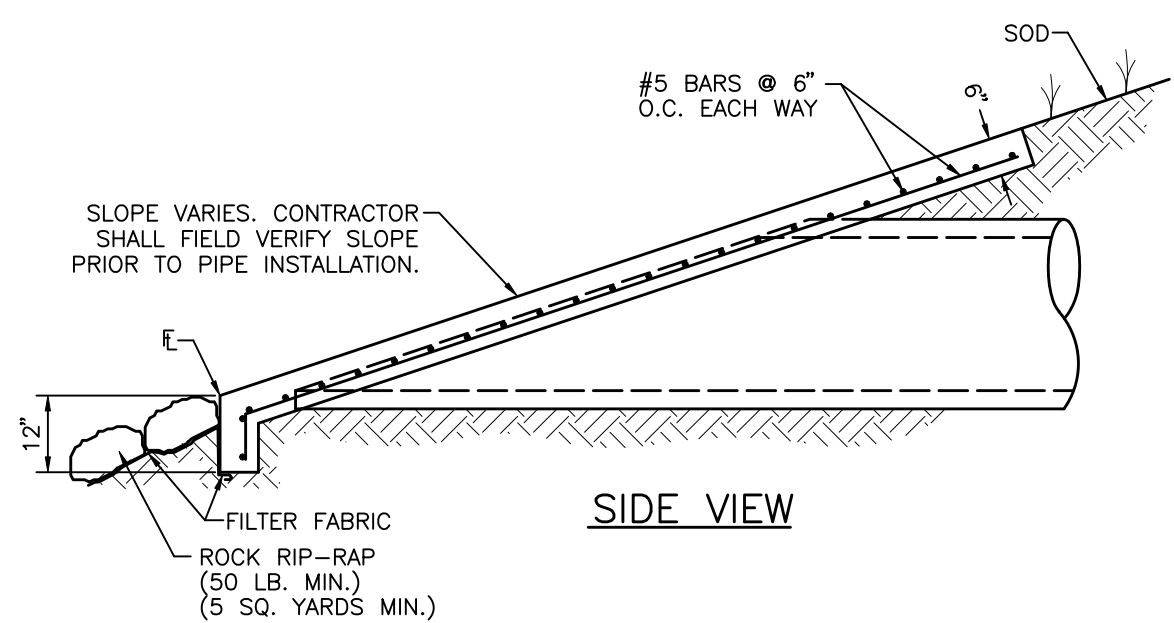
TYPICAL CONNECTION FOR UNDERDRAIN TO STRUCTURE
 N.T.S.

1299CGS
 APPROX. DRAIN AREA = 40.62 SQ IN
 APPROX. WEIGHT WITH FRAME = 40.66 LBS

ALL DIMENSIONS IN INCHES UNLESS NOTED OTHERWISE	THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN. REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST.	DRAWN BY: EBC	MATERIAL: DUCTILE IRON	3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-9999 www.nyloplast-us.com
DATE: 3-3-06	APP'D BY: CJA	PROJECT NO: NAME	DATE: 3-3-06	TITLE: 12 IN STANDARD GRATE ASSEMBLY
DWG SIZE: A	SCALE: 1/8"	SHEET: 1 OF 1	DWG NO: 7001-110-203	REV: B

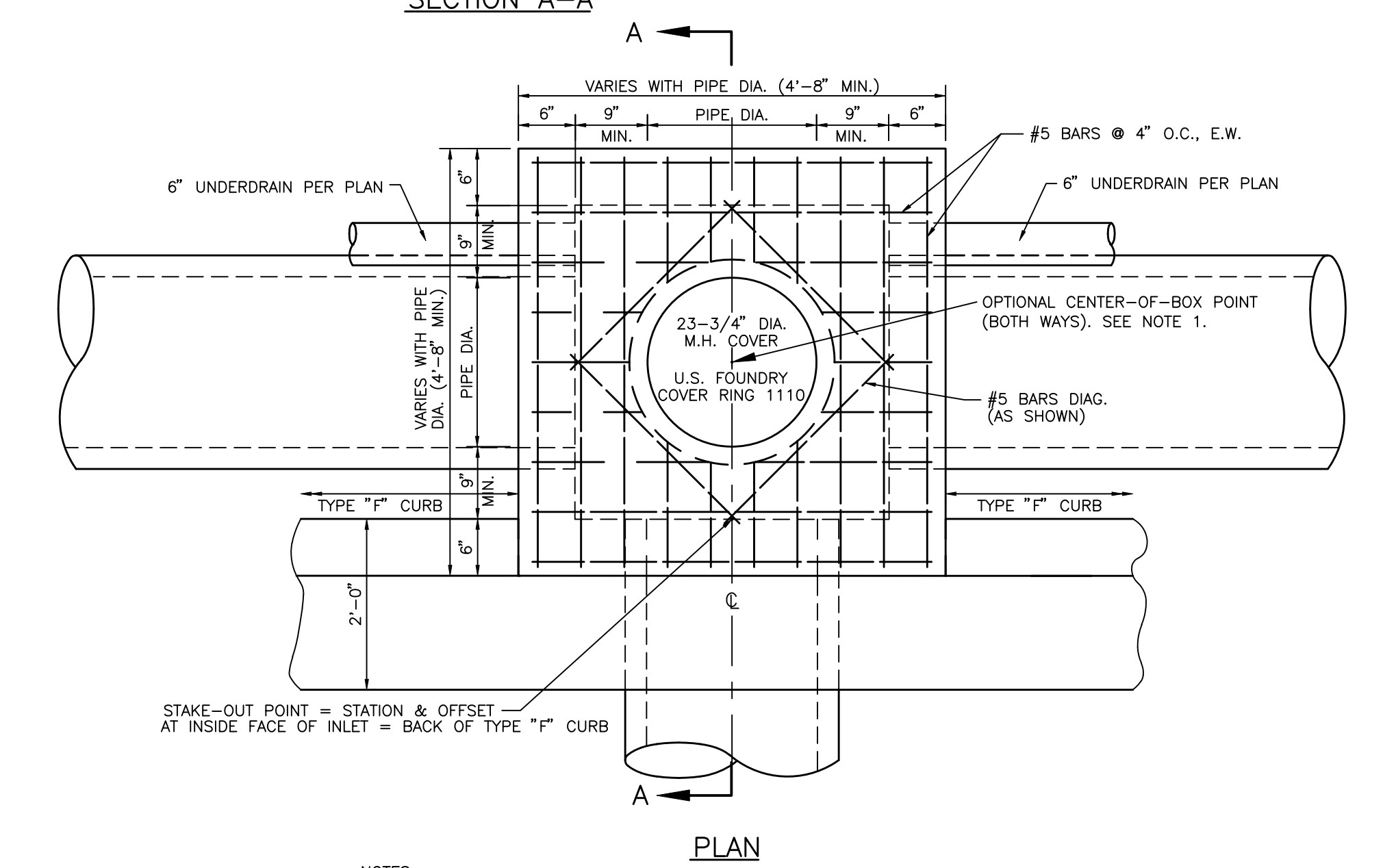
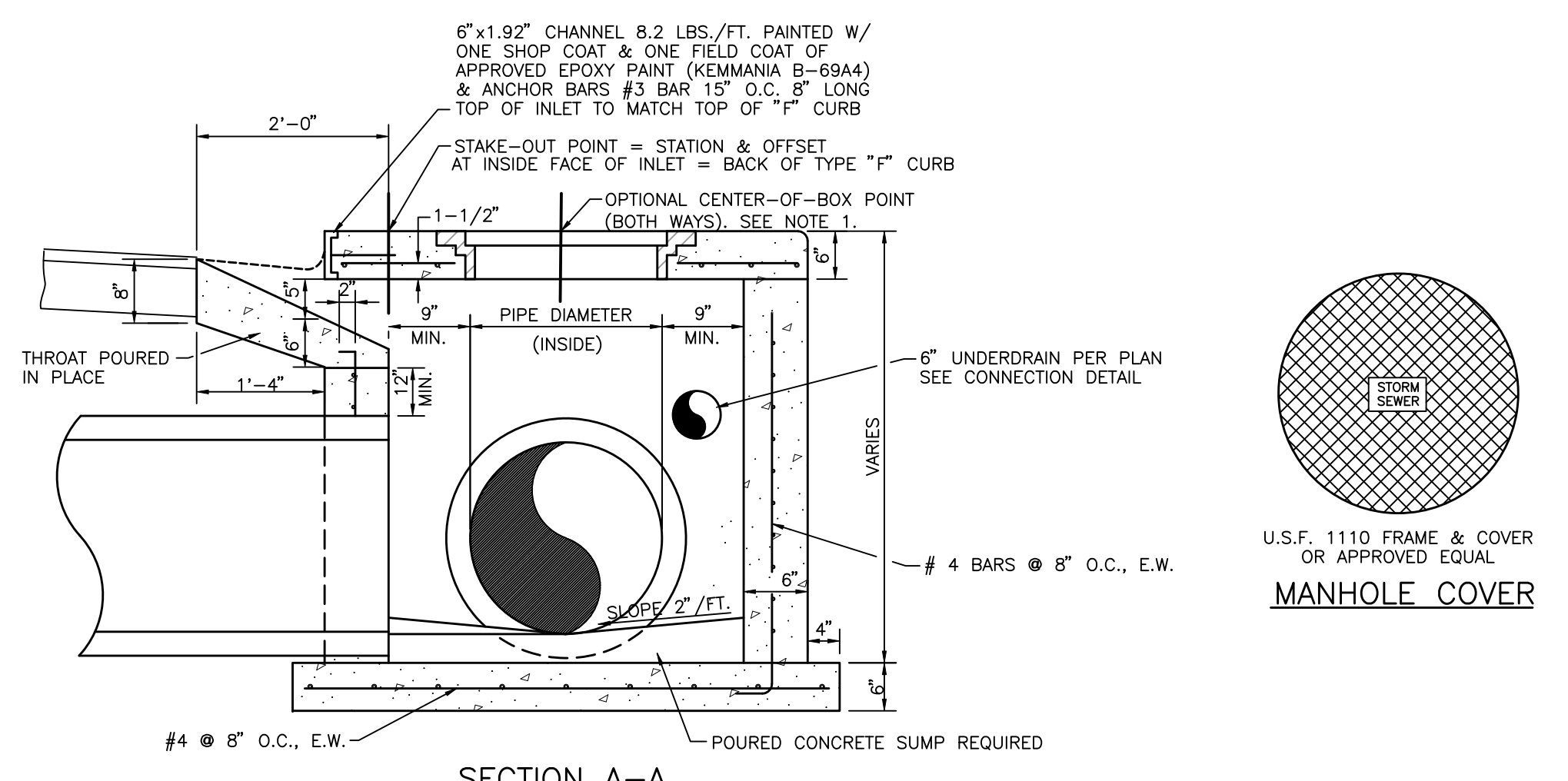
NYLOPLAST 12" DRAIN BASIN: 2812AG __ X

GRATE OPTIONS	LOAD RATING	PART #	DRAWING #	THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN. REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST.	DRAWN BY: EBC	MATERIAL:	3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-9999 www.nyloplast-us.com	
PEDESTAL	MEETS 1120	1299CGS	7001-110-202	DATE: 3-29-06	APP'D BY: CJA	PROJECT NO: NAME	TITLE: 12 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL	
STANDARD	MEETS 1120	1299CGS	7001-110-203	DWG SIZE: A	SCALE: 1/20"	SHEET: 1 OF 1	DWG NO: 7001-110-189	REV: B
GRID COVER	MEETS 1120	1299CGS	7001-110-204					
PEDESTAL BRONZE	LIGHT DUTY	1299CGP	7001-110-205					
DOSE	N/A	1299CGD	7001-110-206					
DROP IN GRATE	LIGHT DUTY	1299CGI	7001-110-207					



- NOTES:**
1. CONCRETE SHALL BE 3000 P.S.I. @ 28 DAYS
 2. CHAMFER ALL EXPOSED EDGES 3/4".
 3. RIP-RAP SHALL BE SUPPLIED AND CONSTRUCTED AS DEFINED IN THE F.D.O.T. SPECIFICATIONS SEC. 530, "RIP-RAP", SPECIFICALLY SEC. 530-3.1 OR SEC. 530-3.3 "CONSTRUCTION METHODS" & SY. RIP-RAP AND FILTER CLOTH TO BE INCLUDED IN THE UNIT PRICE OF THE MITERED END SECTION. IF ADDITIONAL RIP-RAP (> 5 SY.) IS REQUIRED AND DIRECTED, IT SHALL BE PAID FOR ON A PER YARD BASIS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
 4. FILTER FABRIC SHALL BE SUPPLIED AND CONSTRUCTED AS DEFINED IN THE F.D.O.T. SPECIFICATIONS SEC. 514, PLASTIC FILTER FABRIC, SPECIFICALLY SEC. 514-3.4 RIPRAP, INCLUDED IN UNIT COST OF MITERED END SECTION.

MITERED END SECTION
 S-0022 N.T.S.



- NOTES:**
1. CENTER OF STRUCTURE, BOTH WAYS, MAY BE ADDITIONALLY STAKED AT THE REQUEST OF THE CONTRACTOR OR AT THE DISCRETION OF THE SURVEYOR FOR THE PURPOSE OF PIPE ALIGNMENT.

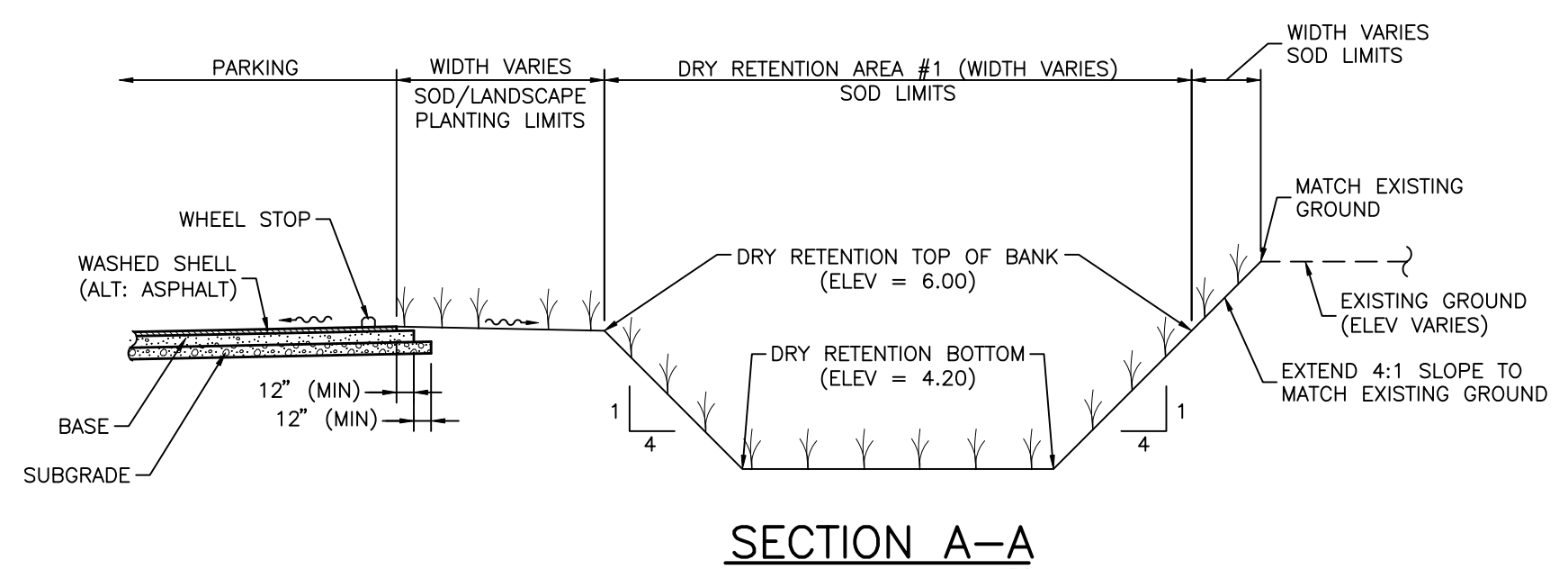
STANDARD THROAT INLET DETAIL
 (MANATEE) N.T.S.

ACTIVITY	INITIALS/EMP. NO.	DATE
DESIGNED BY:		
DRAWN BY:	ATO/89520	11/17/11
CHECKED BY:		
CONTRACT ADMIN. BY:		
WM APPROVED BY:		

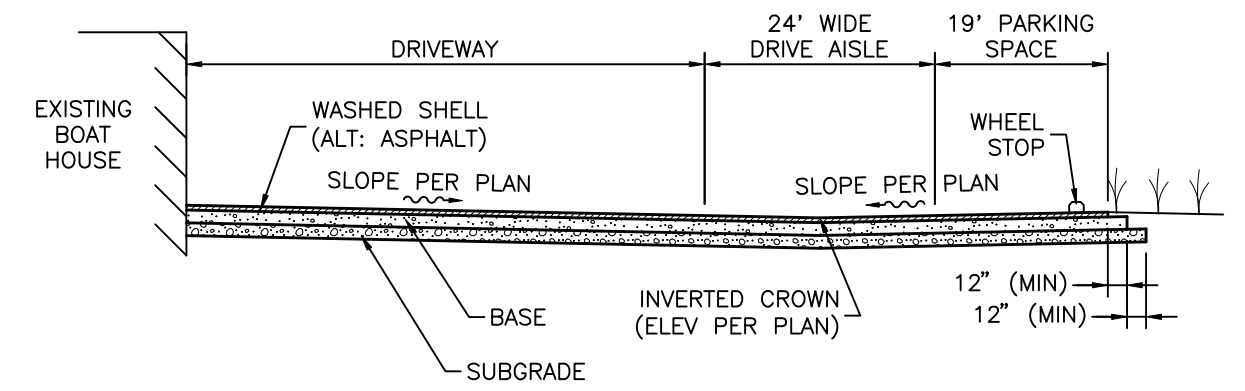
Wilson Miller Stantec
 6900 Professional Parkway East, Sarasota, FL 34240
 Phone: 941-907-6500 • Fax: 941-907-6910
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CLIENT: MANATEE BOARD OF COUNTY COMMISSIONERS
 PROJECT: FT. HAMER PARK, PHASE II

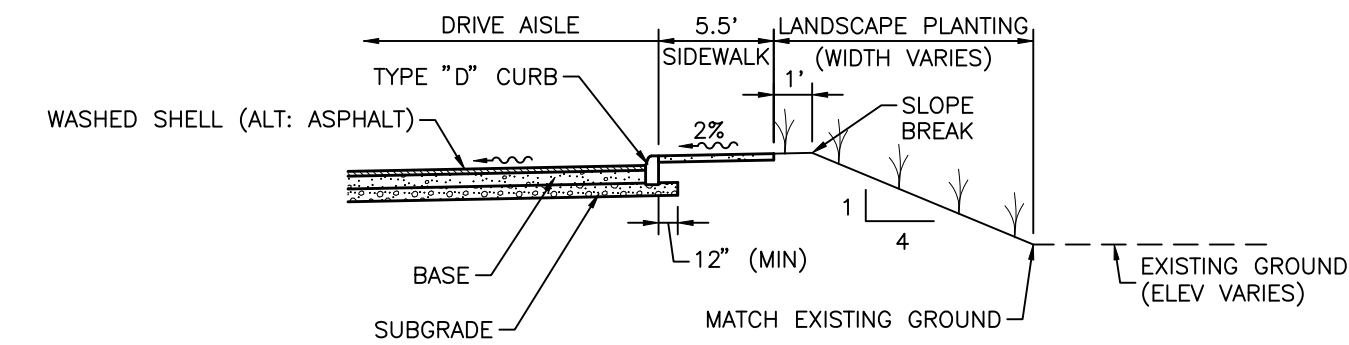
DATE: NOVEMBER 2011
 HORIZONTAL SCALE: AS SHOWN
 VERTICAL SCALE: AS SHOWN
 CROSS REFERENCE FILE NO.:
 PROJECT NUMBER: 215610582 220
 SHEET NUMBER: 10 OF 13



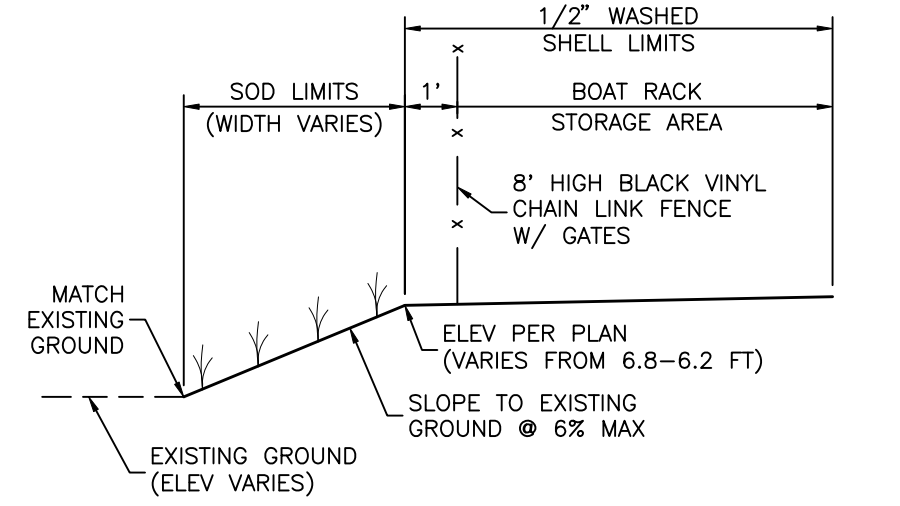
SECTION A-A
N.T.S.



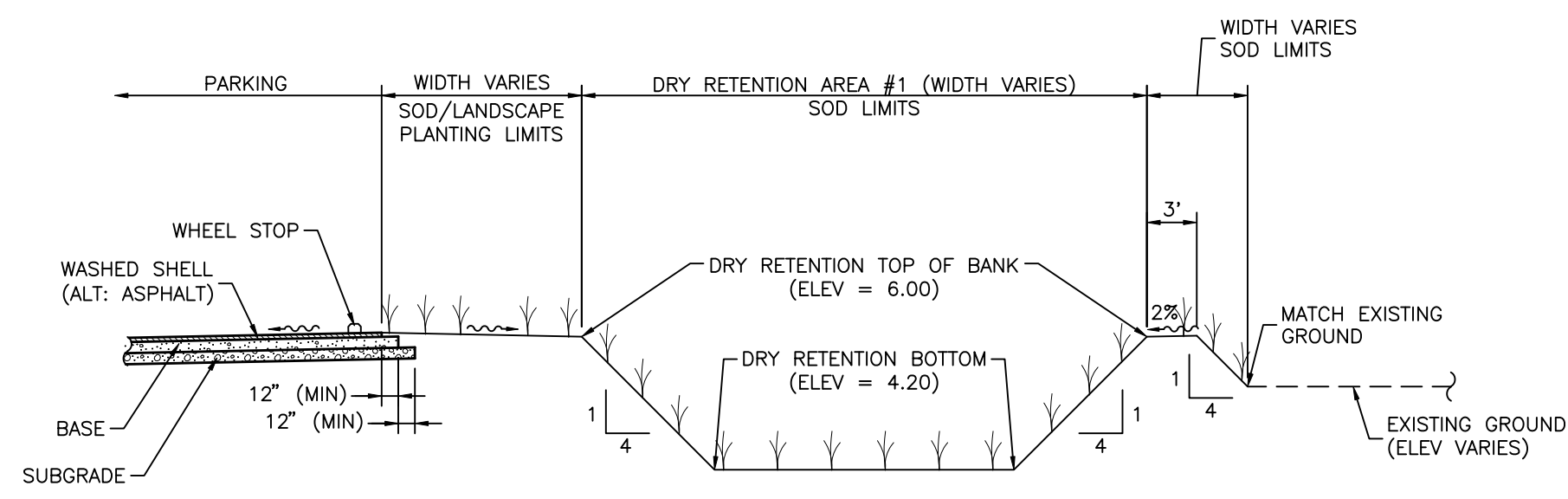
SECTION H-H
N.T.S.



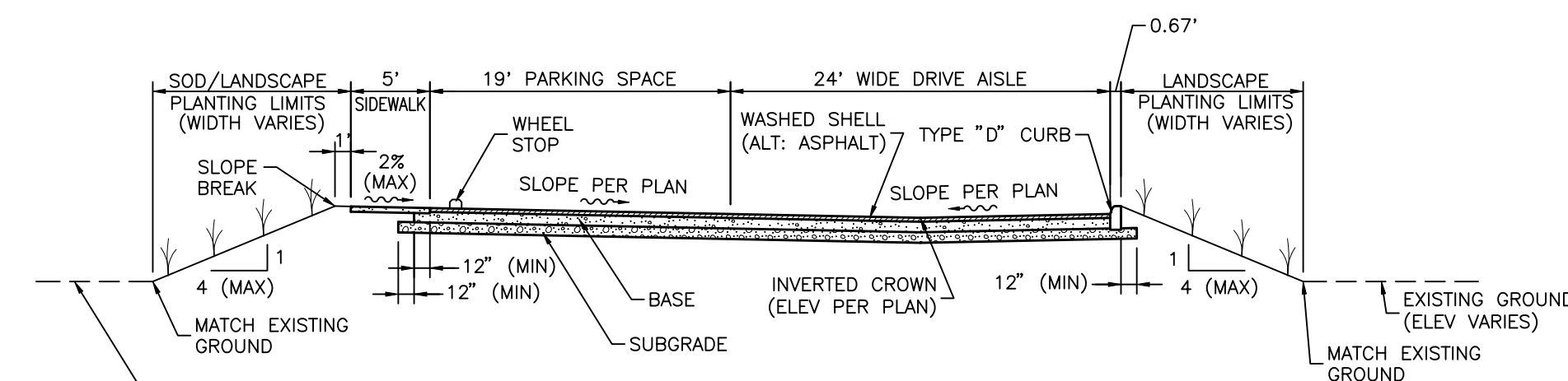
SECTION N-N
N.T.S.



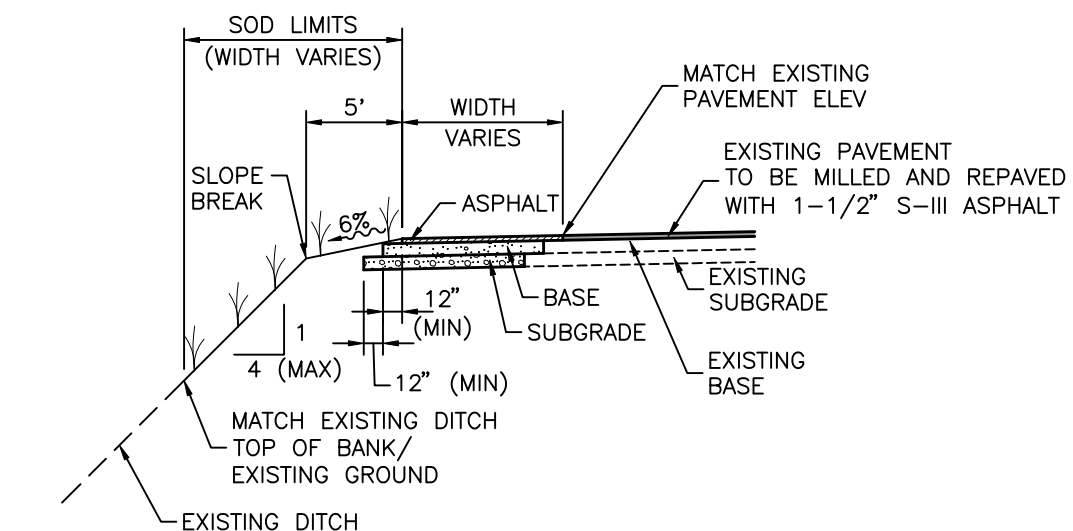
SECTION O-O
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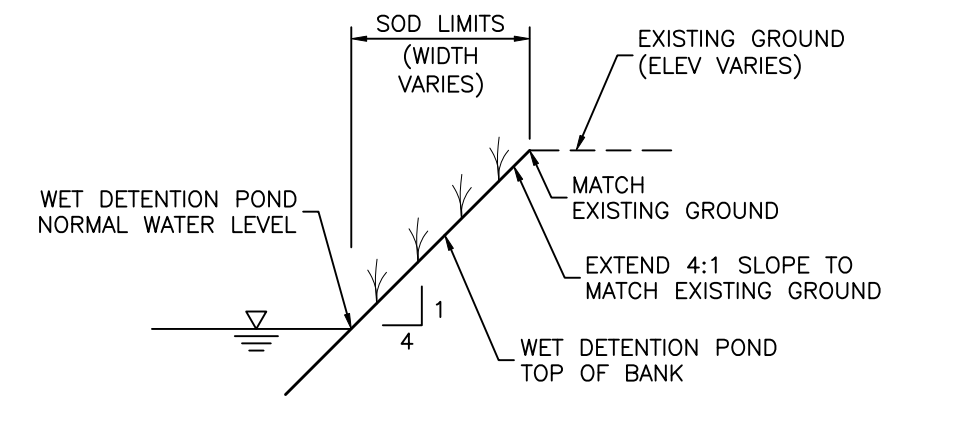
SECTION B-B
N.T.S.



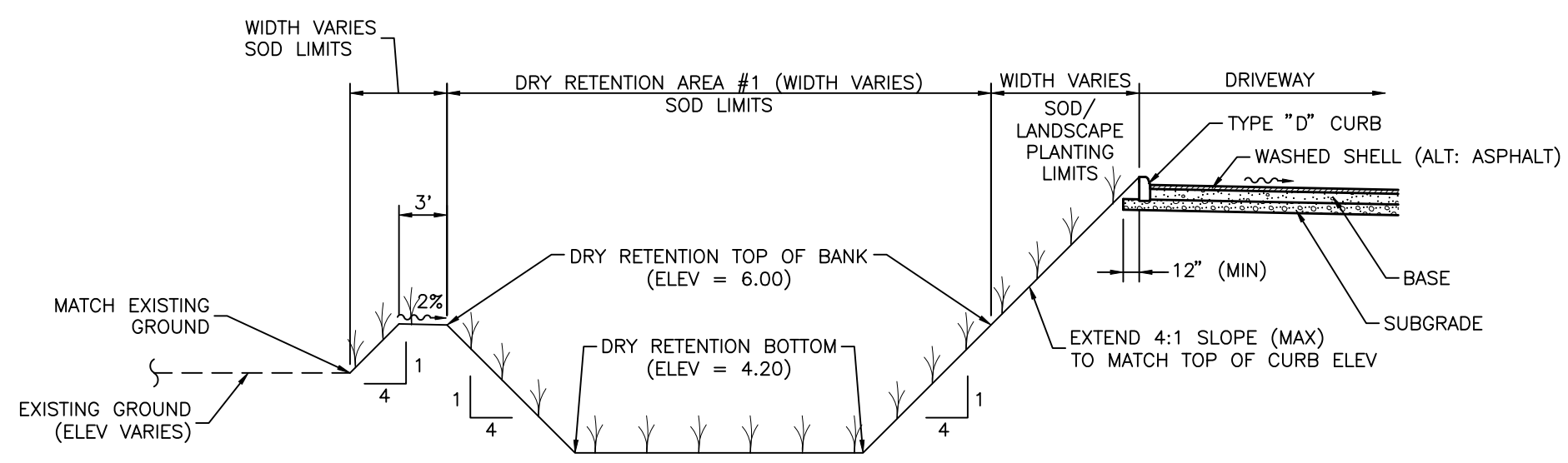
SECTION I-I
N.T.S.



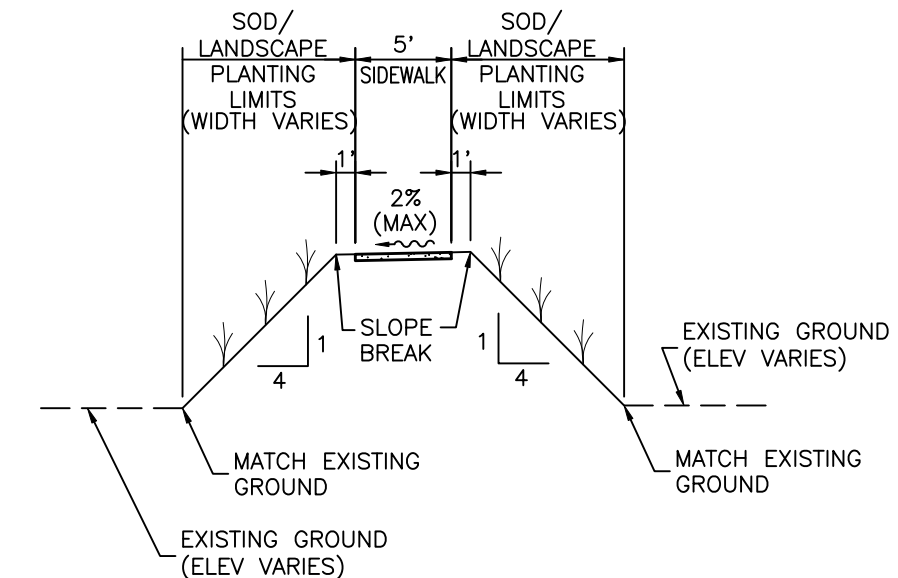
SECTION P-P
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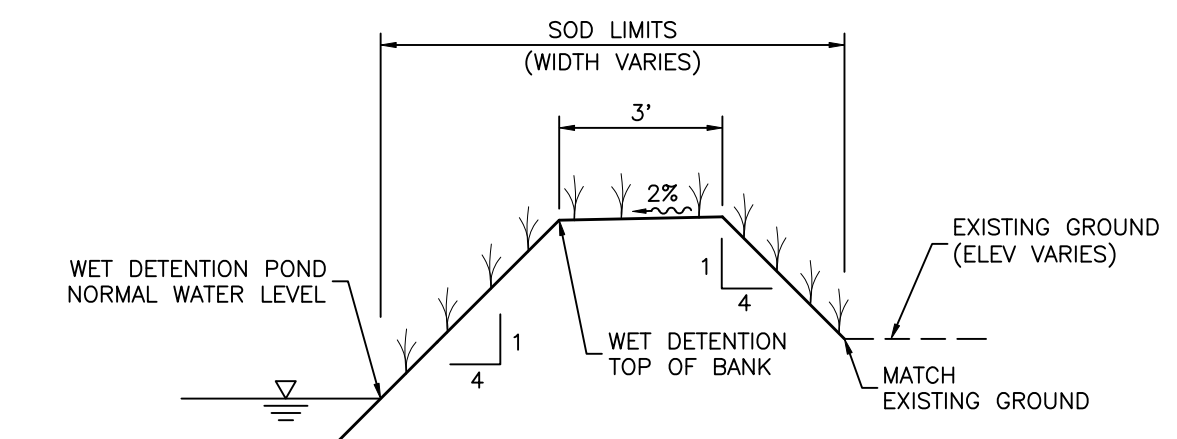
SECTION Q-Q
N.T.S.



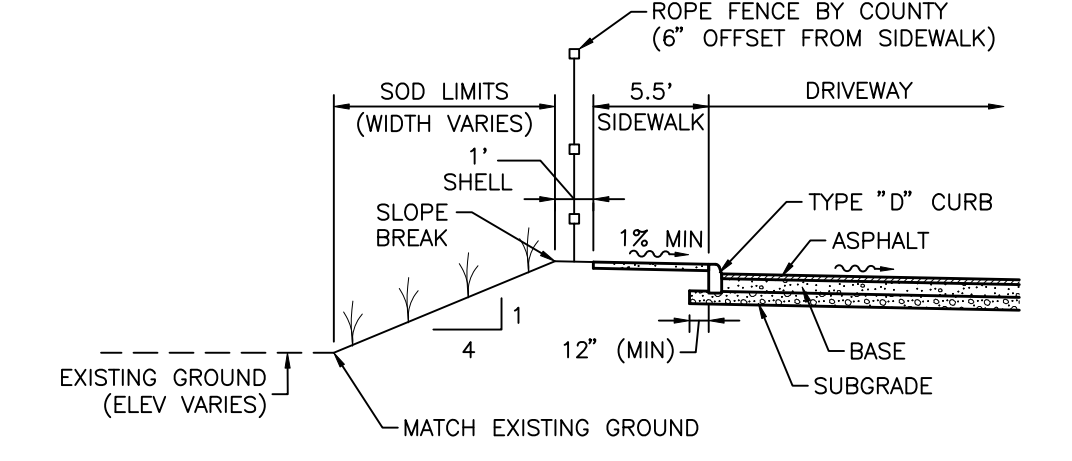
SECTION C-C
N.T.S.



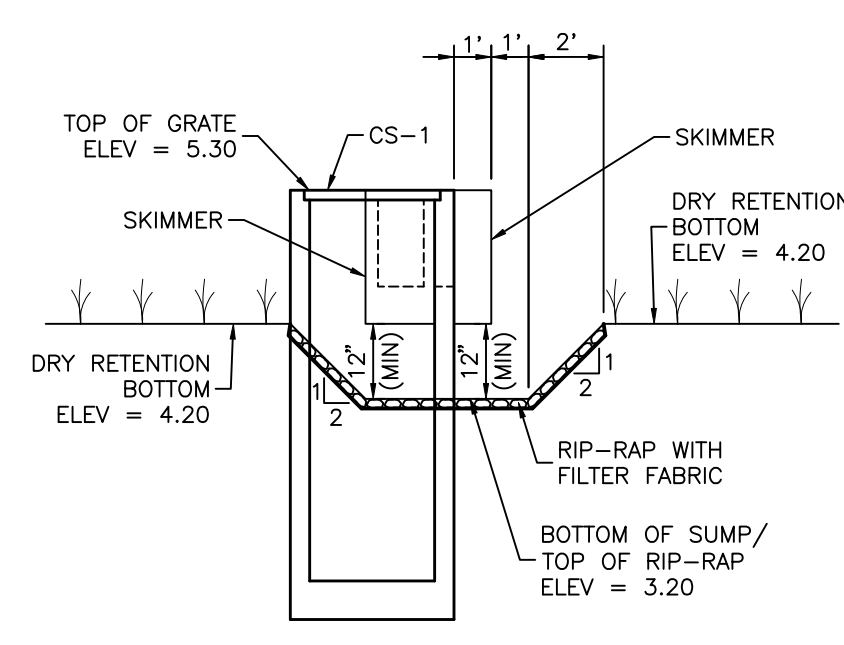
SECTION J-J
N.T.S.



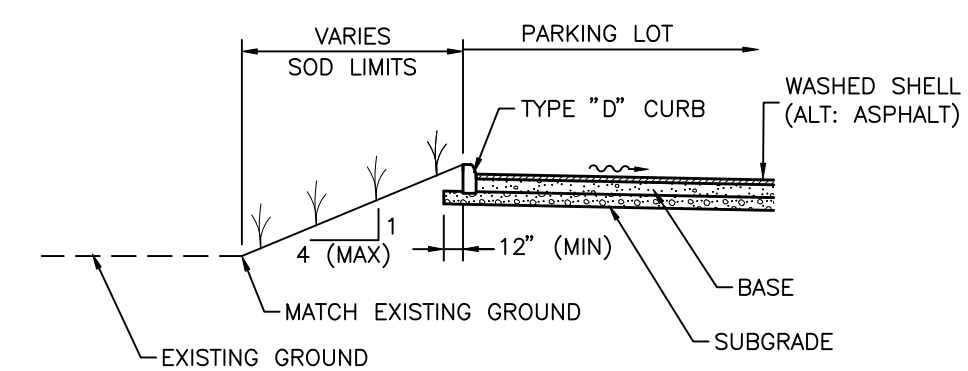
SECTION R-R
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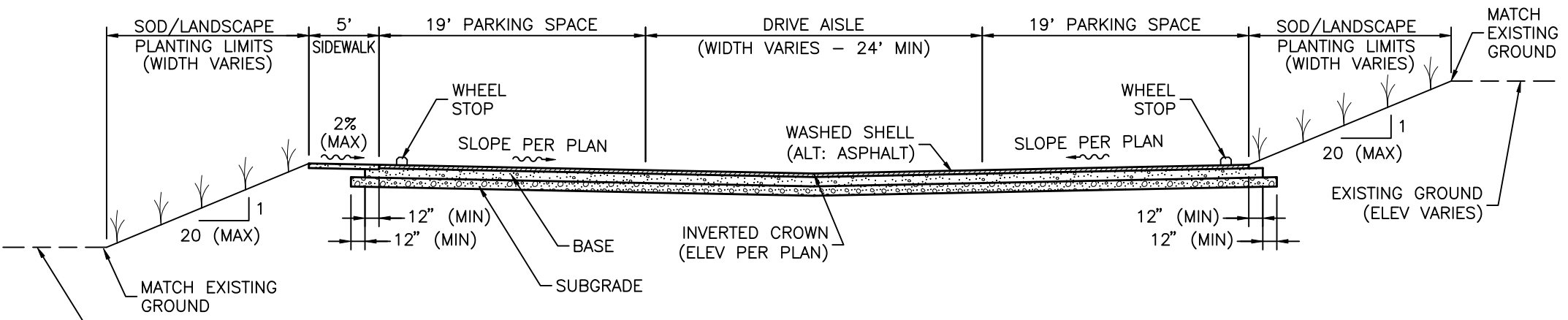
SECTION S-S
N.T.S.



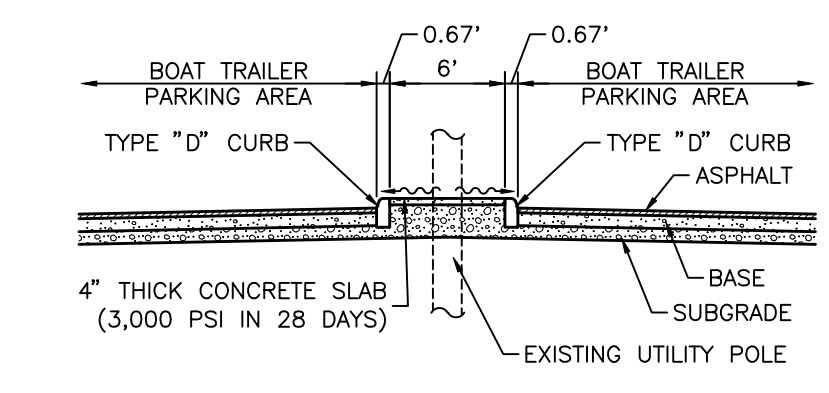
SECTION D-D
N.T.S.



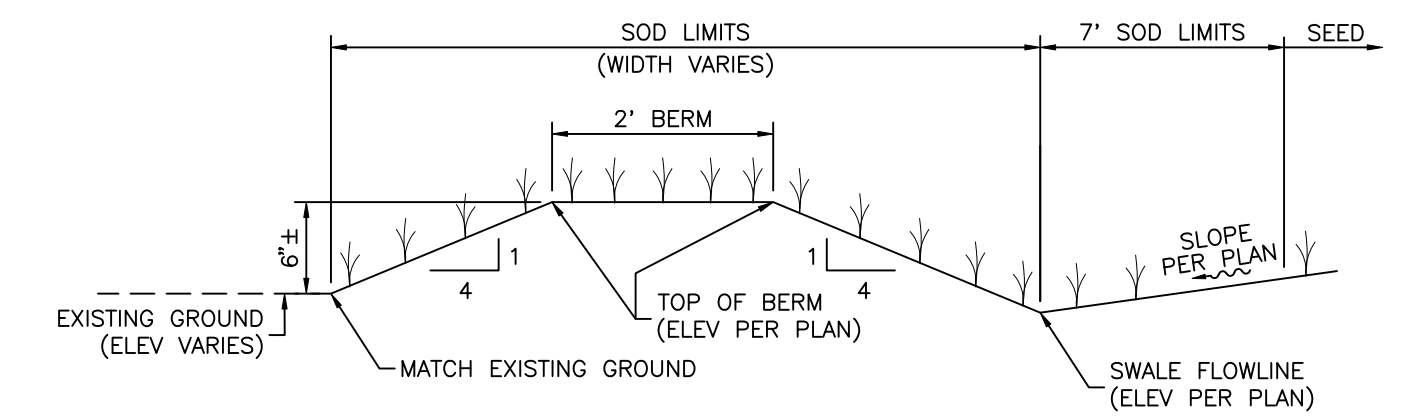
SECTION E-E
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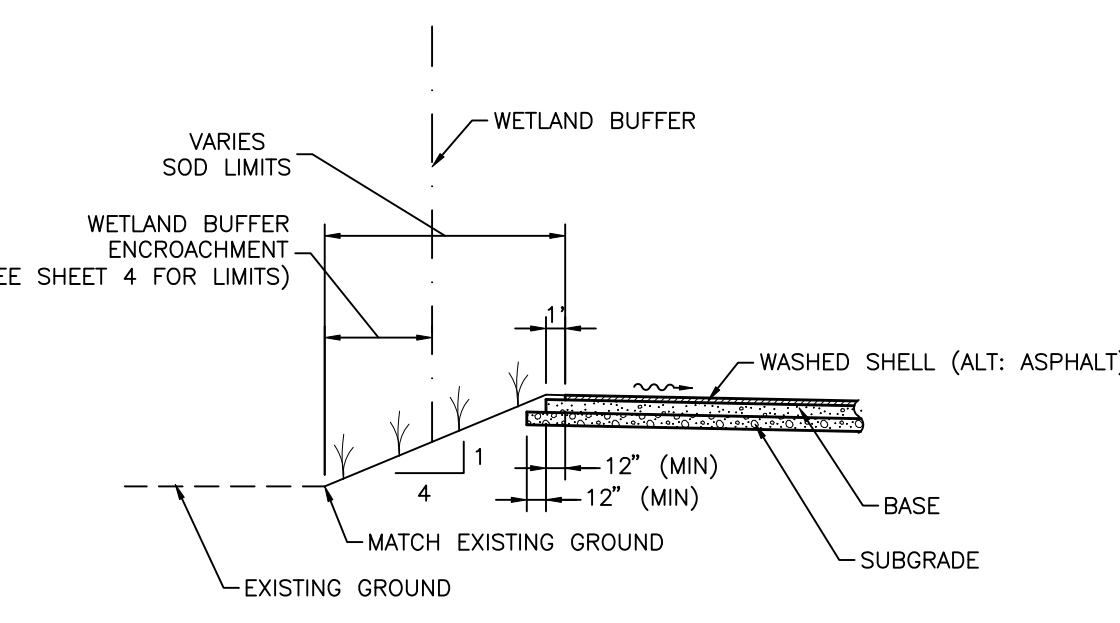
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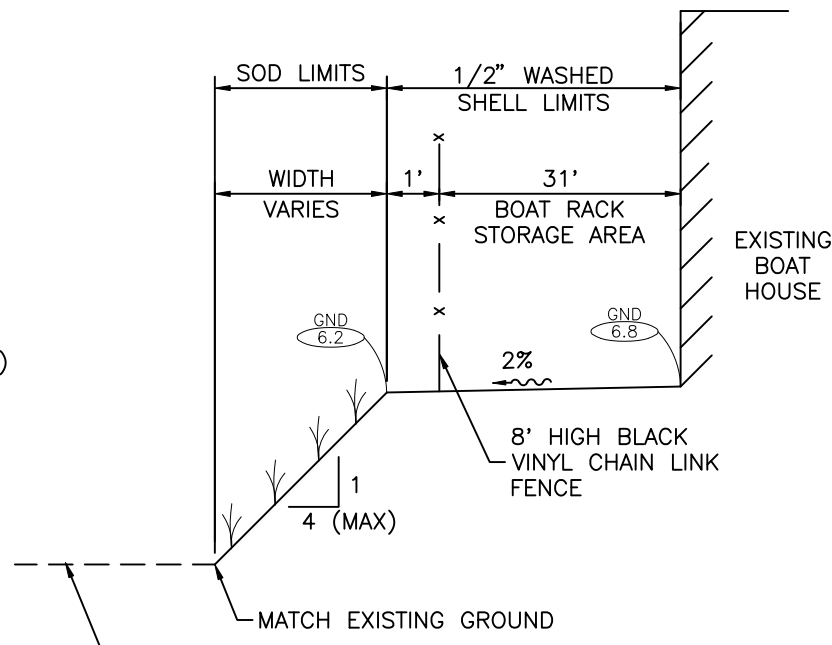
SECTION T-T
N.T.S.



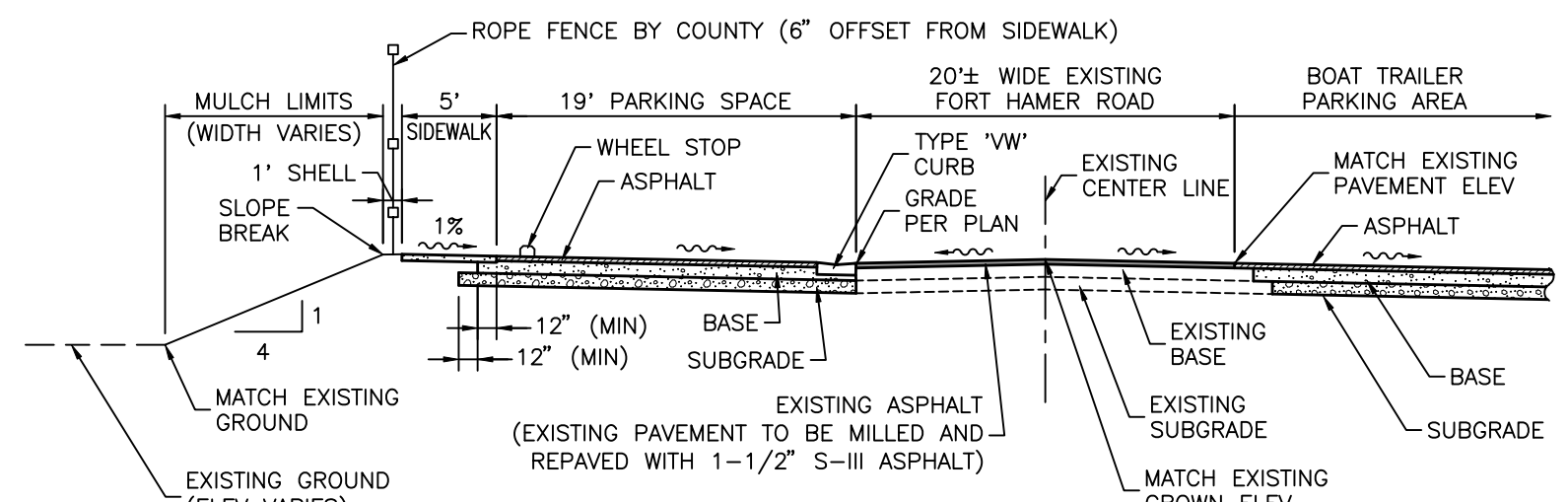
SECTION U-U
N.T.S.



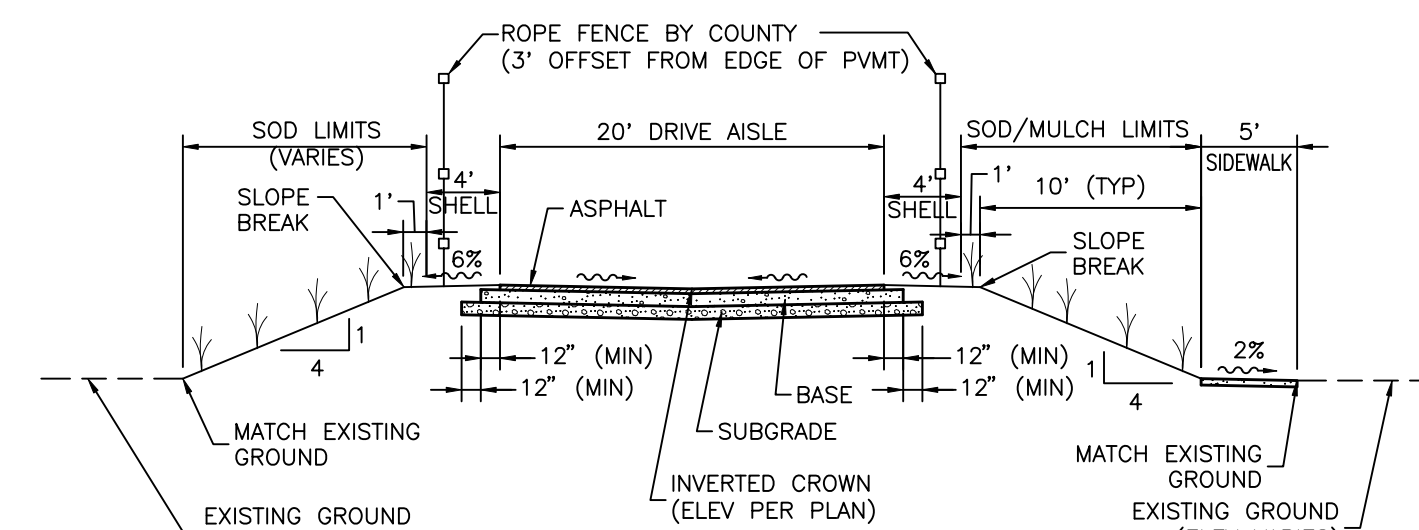
SECTION F-F
N.T.S.



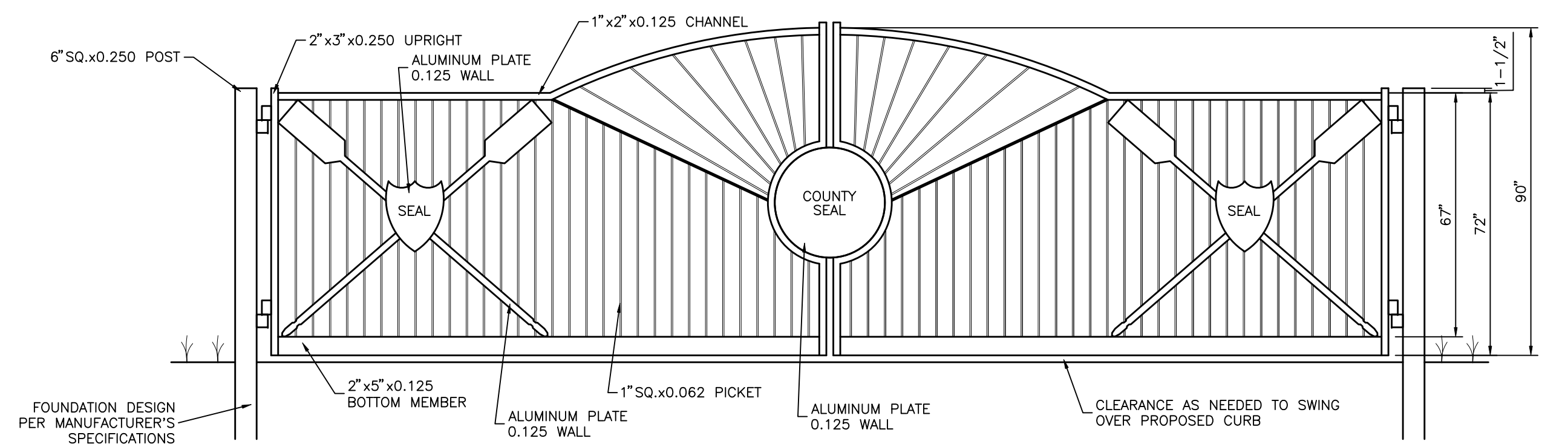
SECTION G-G
N.T.S.



SECTION L-L
N.T.S.



SECTION M-M
N.T.S.



ENTRY GATE SCHEMATIC DETAIL (AUTOMATED SWING GATES)
N.T.S.

- NOTES:
- ENTRY GATE SCHEMATIC DETAILS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY AND ARE PROVIDED FOR BASIS OF BID ONLY. ENTRY GATE MANUFACTURED BY IDEAL ALUMINUM. CONTRACTOR SHALL CONFIRM ALL REQUIRED DIMENSIONS AND SUBMIT FINAL DESIGN/SHOP DRAWINGS FOR ENTRY GATE FOR REVIEW. ALL ENTRY GATE MATERIALS/APPERTENANCES SHALL BE ALUMINUM AND/OR GALVANIZED. CONTRACTOR TO SUBMIT COLOR OPTIONS TO COUNTY FOR REVIEW/APPROVAL PRIOR TO FABRICATION.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITTING RELATED TO THE ENTRY GATES AS REQUIRED BY MANATEE COUNTY, INCLUDING ANY APPLICABLE PERMIT FEES.
 - CONTRACTOR SHALL INCLUDE PROVIDING POWER SUPPLY TO THE ENTRY GATES AS NEEDED AND INCLUDE AS PART OF THE UNIT PRICE COST FOR ENTRY GATES.
 - ENTRY SIGN SHALL INCLUDE A KEY PAD WITH KNOX-BOX RAPID ENTRY ACCESS OR APPROVED EQUAL AS DETERMINED BY THE PARRISH FIRE DISTRICT. ENTRY GATE SHALL ALSO INCLUDE SENSORS AS NEEDED TO OPEN/CLOSE DURING INGRESS/EGRESS OF VEHICLES.

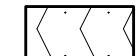
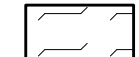
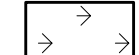

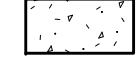

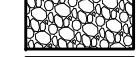

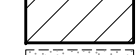




NOTE: CONTRACTOR SHALL REFER TO LANDSCAPE GROUNDCOVER/SURFACES PLAN FOR FINAL GROUNDCOVER MATERIALS AND LIMITS

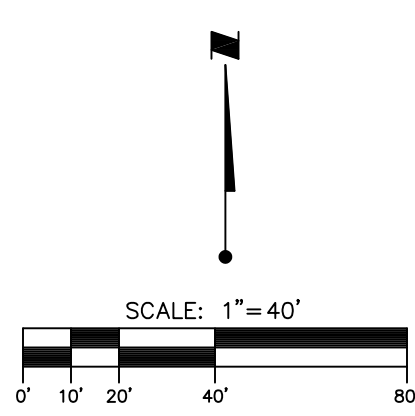
REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:	ACTIVITY	INITIALS/EMP. NO.	DATE
C	ADD ENTRY GATE SCHEMATIC DETAIL	2/6/13	DJB/89366					

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 6900 Professional Parkway East, Sarasota, FL 34240
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CLIENT:	MANATEE BOARD OF COUNTY COMMISSIONERS	DATE:	NOVEMBER 2011	TITLE:	CROSS SECTIONS
PROJECT:	FT. HAMER PARK, PHASE II	HORIZONTAL SCALE:	AS SHOWN	INDEX NUMBER:	D-215610582-011
		VERTICAL SCALE:	AS SHOWN	SHEET NUMBER:	11 OF 13
		CROSS REFERENCE FILE NO.:		PROJECT NUMBER:	215610582 220

LEGEND

-  POND/ DRY RETENTION AREA
-  EXISTING POND
-  WETLAND
-  LITTORAL ZONE
-  CONCRETE PAD/SIDEWALK
-  EXISTING CONCRETE SIDEWALK
-  EXISTING SHELL DRIVE
-  DECORATIVE PAVERS
-  EXISTING BUILDING
-  1/2" WASHED SHELL
-  SILT FENCE
-  HAY BALES
-  FLOATING TURBIDITY BARRIER

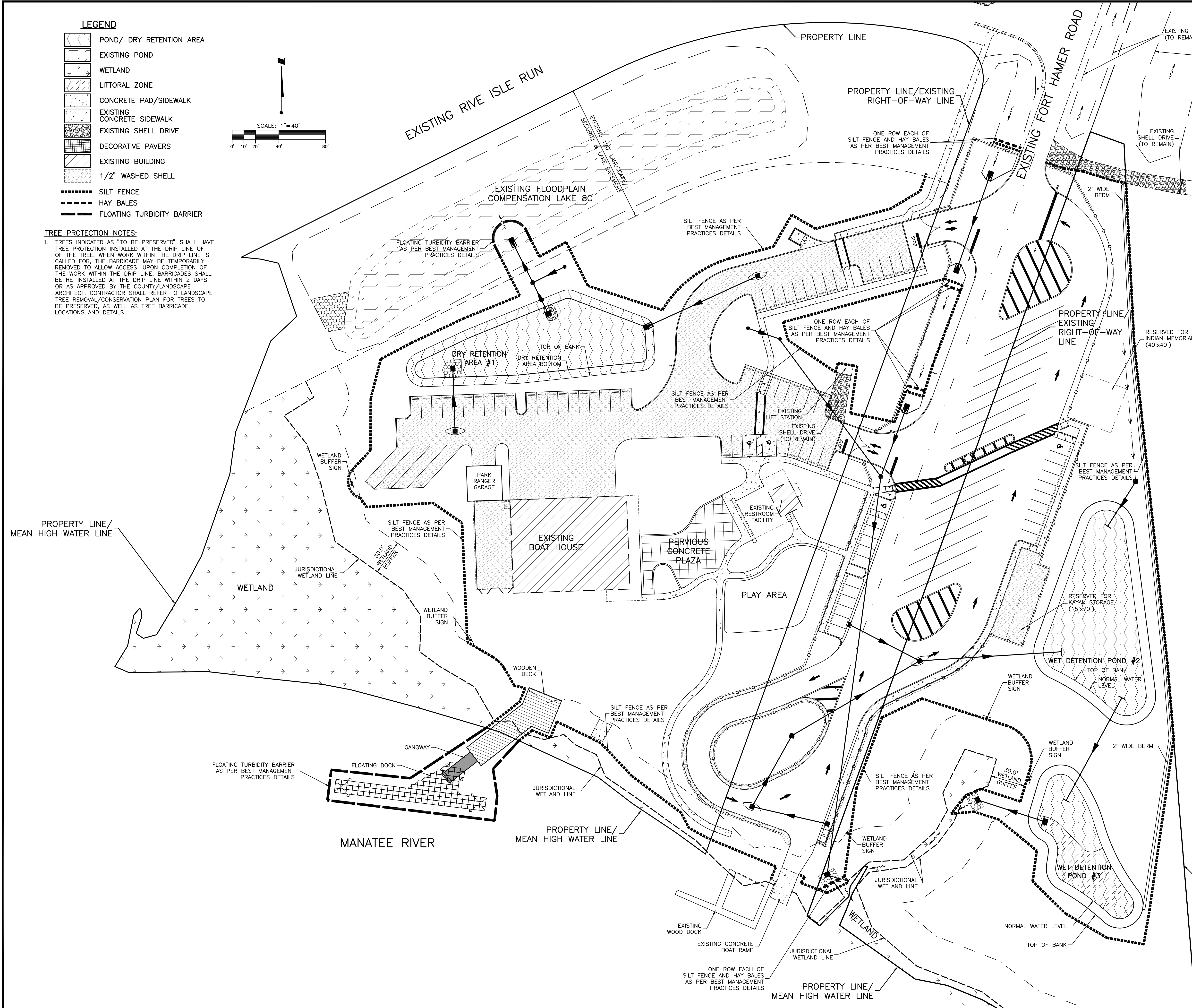


TREE PROTECTION NOTES:

1. TREES INDICATED AS "TO BE PRESERVED" SHALL HAVE TREE PROTECTION INSTALLED AT THE DRIP LINE OF THE TREE. WHEN WORK WITHIN THE DRIP LINE IS CALLED FOR, THE BARRICADE MAY BE TEMPORARILY REMOVED TO ALLOW ACCESS. UPON COMPLETION OF THE WORK WITHIN THE DRIP LINE, BARRICADES SHALL BE RE-INSTALLED AT THE DRIP LINE WITHIN 2 DAYS OR AS APPROVED BY THE COUNTY/LANDSCAPE ARCHITECT. CONTRACTOR SHALL REFER TO LANDSCAPE TREE REMOVAL/CONSERVATION PLAN FOR TREES TO BE PRESERVED, AS WELL AS TREE BARRICADE LOCATIONS AND DETAILS.

NOTES

1. A COPY OF THIS BEST MANAGEMENT PRACTICES PLAN AND THE STORMWATER POLLUTION PREVENTION PLAN, SHALL BE KEPT AT THE PROJECT SITE AT ALL TIMES.
2. THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE REQUIREMENTS AND CONDITIONS OF THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFMD) PERMIT(S) AND HAVE A COPY OF THE PERMIT(S) ON SITE. IF IT IS NECESSARY FOR GROUNDWATER DEWATERING TO DISCHARGE OFFSITE, THEN THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITTING FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP). THE CONTRACTOR SHALL BEAR ALL RESPONSIBILITY AND COSTS FOR OBTAINING AND/OR MODIFYING ALL APPLICABLE PERMITTING FOR THE DISCHARGE OF GROUNDWATER DEWATERING AND FOR COMPLYING WITH ALL SWFMD AND FDEP PERMITTING CONDITIONS.
3. THE CONTRACTOR SHALL IMPLEMENT OTHER BEST MANAGEMENT PRACTICES AS DIRECTED BY THE ENGINEER OF RECORD OR OTHER REGULATORY AGENCIES.
4. THE CONTRACTOR SHALL STAGE CONSTRUCTION IN PHASES WHENEVER POSSIBLE TO MINIMIZE SOIL LOSS AND CONTROL EROSION.
5. THE CONTRACTOR SHALL PROVIDE A STABILIZED CONSTRUCTION ENTRANCE TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEPED AS REQUIRED TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE SHALL BE COVERED WITH A TARPULIN.
6. THE CONTRACTOR SHALL DIRECT ONSITE RUNOFF TO THE STORMWATER MANAGEMENT SYSTEM DURING CONSTRUCTION.
7. CONTRACTOR SHALL SPRINKLE OR OTHERWISE APPLY WATER TO AFFECTED CONSTRUCTION AREAS TO CONTROL BOTH SIGNIFICANT WIND EROSION AND FUGITIVE DUST.
8. ALL INLET GRATES SHALL BE WRAPPED IN FILTER FABRIC AND ALL INLETS SHALL BE PROTECTED WITH SILT SCREENS OR HAY BALES IN ACCORDANCE WITH THE BMP PLAN. SILT BARRIERS SHALL REMAIN IN PLACE UNTIL SODDING AROUND INLETS IS COMPLETE. INLET GRATES SHOULD REMAIN WRAPPED UNTIL PROJECT IS COMPLETE.
9. FOR DRAINAGE BASINS WITH 10 OR MORE DISTURBED ACRES AT ONE TIME, A TEMPORARY (OR PERMANENT) SEDIMENT BASIN PROVIDING 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED, OR EQUIVALENT CONTROL MEASURES, SHALL BE PROVIDED WHERE ATTAINABLE UNTIL FINAL STABILIZATION OF THE SITE. THE 3,600 CUBIC FEET OF STORAGE AREA PER ACRE DRAINED DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS FROM ONSITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. FOR DRAINAGE BASINS WITH 10 OR MORE DISTURBED ACRES AT ONE TIME AND WHERE A TEMPORARY SEDIMENT BASIN PROVIDING 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED, OR EQUIVALENT CONTROLS IS NOT ATTAINABLE, A COMBINATION OF SMALLER SEDIMENT BASINS AND/OR SEDIMENT TRAPS AND OTHER BMPs SHOULD BE USED. AT A MINIMUM, SILT FENCES, OR EQUIVALENT SEDIMENT CONTROLS ARE REQUIRED FOR ALL SIDESLOPE AND DOWNSLOPE BOUNDARIES OF THE CONSTRUCTION AREA.
10. AREAS THAT ARE DESIGNATED FOR PERMANENT STORMWATER INFILTRATION TREATMENT SYSTEMS (E.G., STORMWATER RETENTION PONDS) SHOULD NOT BE USED FOR TEMPORARY SEDIMENT BASINS UNLESS APPROPRIATE MEASURES ARE TAKEN TO ASSURE REMOVAL OF ACCUMULATED FINE SEDIMENTS, WHICH MAY CAUSE PREMATURE CLOGGING AND LOSS OF INFILTRATION CAPACITY, AND TO AVOID EXCESSIVE COMPACTION OF SOILS BY CONSTRUCTION MACHINERY OR EQUIPMENT.
11. DEWATERING WILL OCCUR, AS REQUIRED, FOR ALL EXCAVATION ACTIVITY INCLUDING, BUT NOT LIMITED TO, STORM SEWERS, SANITARY SEWERS, WATER LINES AND OTHER UTILITIES.
12. ALL CONSTRUCTION DEWATERING SHALL BE CONTAINED ONSITE, AT SPECIFIED LOCATIONS, AND ALLOWED TO INFILTRATE THE SOIL. UNLESS FDEP PERMITTING IS OBTAINED FOR OFFSITE DISCHARGE, ALL DEWATERING GROUNDWATER DISCHARGE SHALL BE ROUTED THROUGH A TEMPORARY SEDIMENT SLUMP PRIOR TO DISCHARGE TO WETLANDS, OTHER SURFACE WATER, OR OFFSITE. THE GENERAL PROCESS OF THE DEWATERING SYSTEM IF DEPICTED HEREIN SHALL BE ADHERED TO DURING CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL APPLICABLE APPROVALS FOR ANY MODIFICATIONS HE PROPOSES.
13. THE DEWATERING SYSTEM SHALL USE A PUMP AND PIPING THAT IS LESS THAN 6 INCHES IN DIAMETER AND OPERATE LESS THAN A TOTAL OF SIX MONTHS. ANY DEVIATION FROM THIS REQUIREMENT SHALL REQUIRE A WATER USE PERMIT. THE COST OF A WATER USE PERMIT AND ASSOCIATED MATERIALS SHALL BE BORNE BY THE CONTRACTOR.
14. LAY SOD AROUND ALL INLETS, MITERED ENDWALLS, HEADWALLS, SWALES, POND SLOPES, AND A THREE FOOT (3') WIDE STRIP ADJACENT TO EDGE OF PAVEMENT OR AS DIRECTED BY THE ENGINEER AS SOON AS PRACTICAL TO PREVENT EROSION. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES PERMANENTLY CEASE SHALL BE STABILIZED WITH SOD OR WITH PERMANENT SEED AND MULCH IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. PERMANENT STABILIZATION SHALL OCCUR AS SOON AS PRACTICAL BUT IN NO CASE MORE THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY.
15. SODDING INCLUDES MAINTAINING SLOPES AND SOD UNTIL COMPLETION AND ACCEPTANCE OF TOTAL PROJECT OR GROWTH IS ESTABLISHED, WHICHEVER COMES LAST. UNTIL THEN, ALL EROSION, SILTATION, AND MAINTENANCE OF GRADES AND GRASS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
16. TOP SOIL STOCK PILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY WILL TEMPORARILY CEASE FOR AT LEAST 21 DAYS SHALL BE STABILIZED WITH TEMPORARY SEED AND MULCH AS SOON AS PRACTICABLE BUT IN NO CASE MORE THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY IN THAT AREA. THE TEMPORARY SEED AND MULCH SHALL BE INSTALLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
17. ALL SILTATION AND EROSION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED AT A MINIMUM OF ONCE PER WEEK OR AFTER ANY 1/2" OR GREATER RAINFALL EVENT. THE CONTRACTOR SHALL MAINTAIN RECORDS OF ALL MAINTENANCE AND INSPECTIONS, ON SITE, UNTIL CONSTRUCTION IS COMPLETE. COPIES SHALL BE FURNISHED TO THE ENGINEER OR OWNER, UPON REQUEST.
18. THE SITE SUPERINTENDENT, WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, FILLING OUT THE INSPECTION AND MAINTENANCE REPORT AND IF NECESSARY, REVISING THE STORMWATER POLLUTION PREVENTION PLAN CONSISTENT WITH MODIFICATIONS MADE DUE TO UNFORESEEN CAUSES, AS DICTATED BY FIELD CONDITIONS.
19. PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES SHALL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT FOR INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.
20. A MAINTENANCE INSPECTION REPORT SHALL BE MADE AFTER EACH INSPECTION. A COPY OF THE REPORT FORM TO BE COMPLETED BY THE INSPECTOR IS INCLUDED IN THE STORMWATER POLLUTION PREVENTION PLAN.
21. SILT FENCE SHALL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO INSURE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO INSURE THAT THE FENCE POSTS ARE INSTALLED FIRMLY IN THE GROUND.
22. SILTATION ACCUMULATIONS GREATER THAN THE LESSER OF 12 INCHES OR ONE-HALF OF THE DEPTH OF THE SILTATION CONTROL BARRIER OR CONTROL DEVICES SHALL BE IMMEDIATELY REMOVED AND PLACED IN UPLAND AREAS. ALL SILTATION BARRIERS SHALL THEN BE RESTORED TO THEIR ORIGINAL CONDITIONS.
23. THE SEDIMENT BASIN SHALL BE INSPECTED FOR DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB, WHICHEVER COMES FIRST.
24. DIVERSION DIKE, IF REQUIRED, SHALL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.
25. TEMPORARY AND PERMANENT SEEDING AND PLANTING SHALL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
26. ALL MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT SHALL BE INITIATED WITHIN 24 HOURS OF REPORT.
27. THE LOCATION OF SILT FENCE AND OTHER BMP FACILITIES SHOWN ON THIS PLAN ARE APPROXIMATE ONLY. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THESE FACILITIES ARE PLACED IN A LOCATION AND MANNER THAT DOES NOT CONFLICT WITH THE LIMITS OF CONSTRUCTION OR AREAS TO BE PROTECTED AS SET FORTH IN THESE PLANS.



CONSTRUCTION SURFACE WATER MANAGEMENT PLAN (CSWMP) CERTIFICATION

OWNER/APPLICANT SIGNATURE _____ DATE _____
 OWNER: CHARLIE BISHOP
 TITLE: DIRECTOR
 COMPANY: MANATEE COUNTY PROPERTY MANAGEMENT DEPARTMENT

REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:
B	UPDATE BASE LINEWORK PER COUNTY COMMENTS	10/18/12	DJB/89366		

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 6900 Professional Parkway East, Sarasota, FL 34240
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CLIENT: MANATEE BOARD OF COUNTY COMMISSIONERS
 PROJECT: FT. HAMER PARK, PHASE II

DATE: NOVEMBER 2011	TITLE: BEST MANAGEMENT PRACTICES PLAN
HORIZONTAL SCALE: 1"=40'	DRAWN BY: DANIEL J. BOND, P.E.
VERTICAL SCALE: N/A	FLORIDA LICENSE NO. 57869
SEC. TWP. RGE: 17 34S 19E	INDEX NUMBER: D-215610582-012
CROSS REFERENCE FILE NO.:	SHEET NUMBER: 12 OF 13
PROJECT NUMBER: 215610582 220	