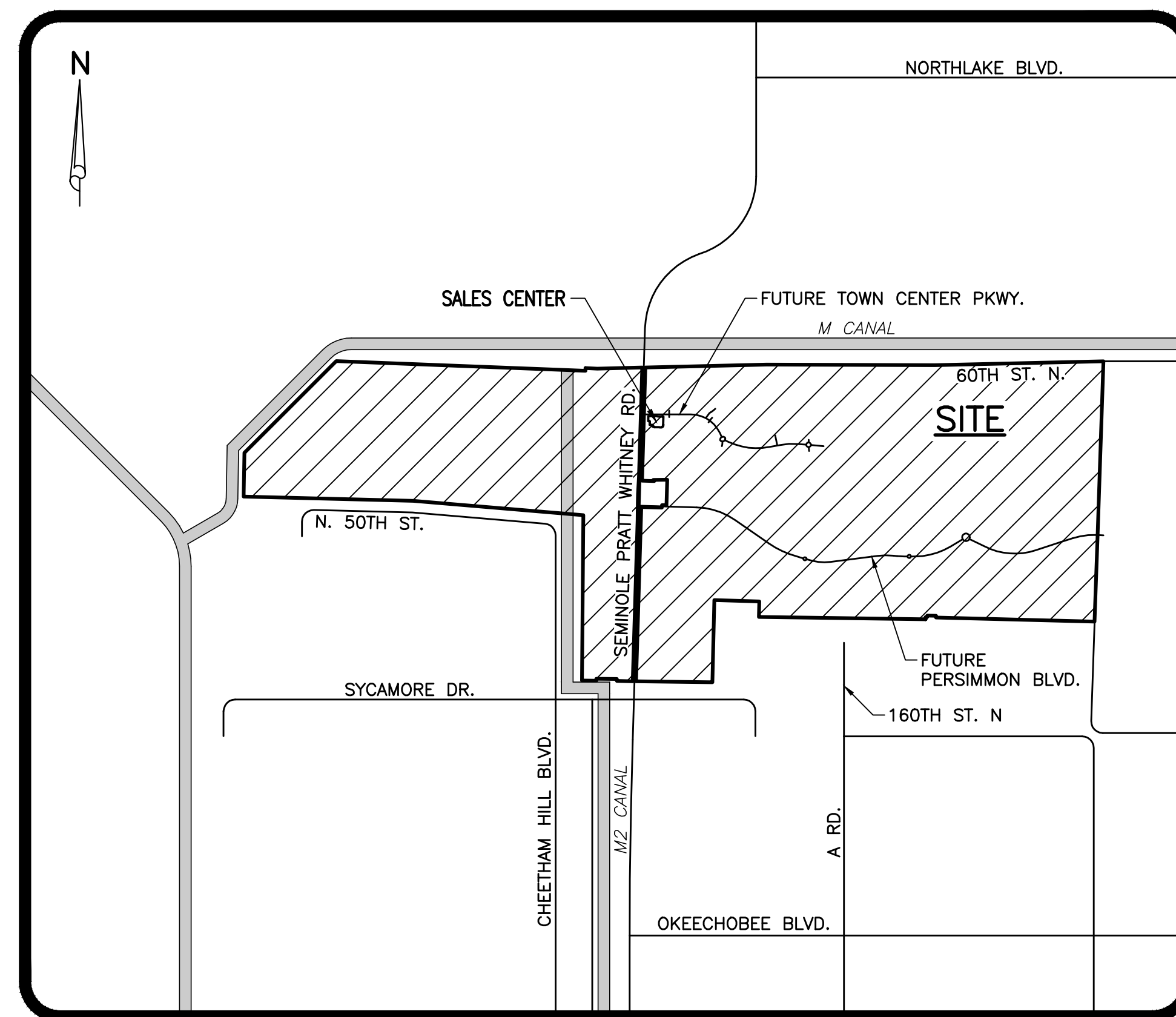


WESTLAKE SALES CENTER SITE DEVELOPMENT PLANS

SECTION 1, TOWNSHIP 43S., RANGE 40E. CITY OF WESTLAKE, FLORIDA



LOCATION MAP
NOT TO SCALE

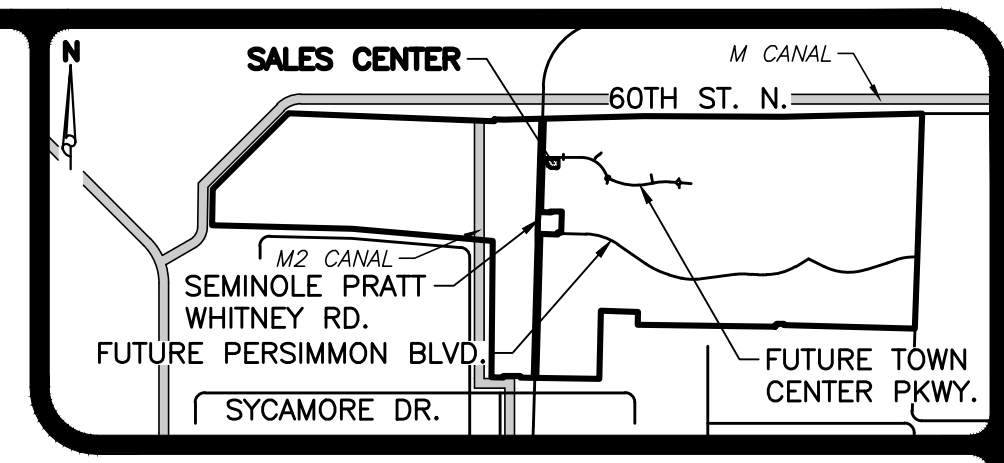
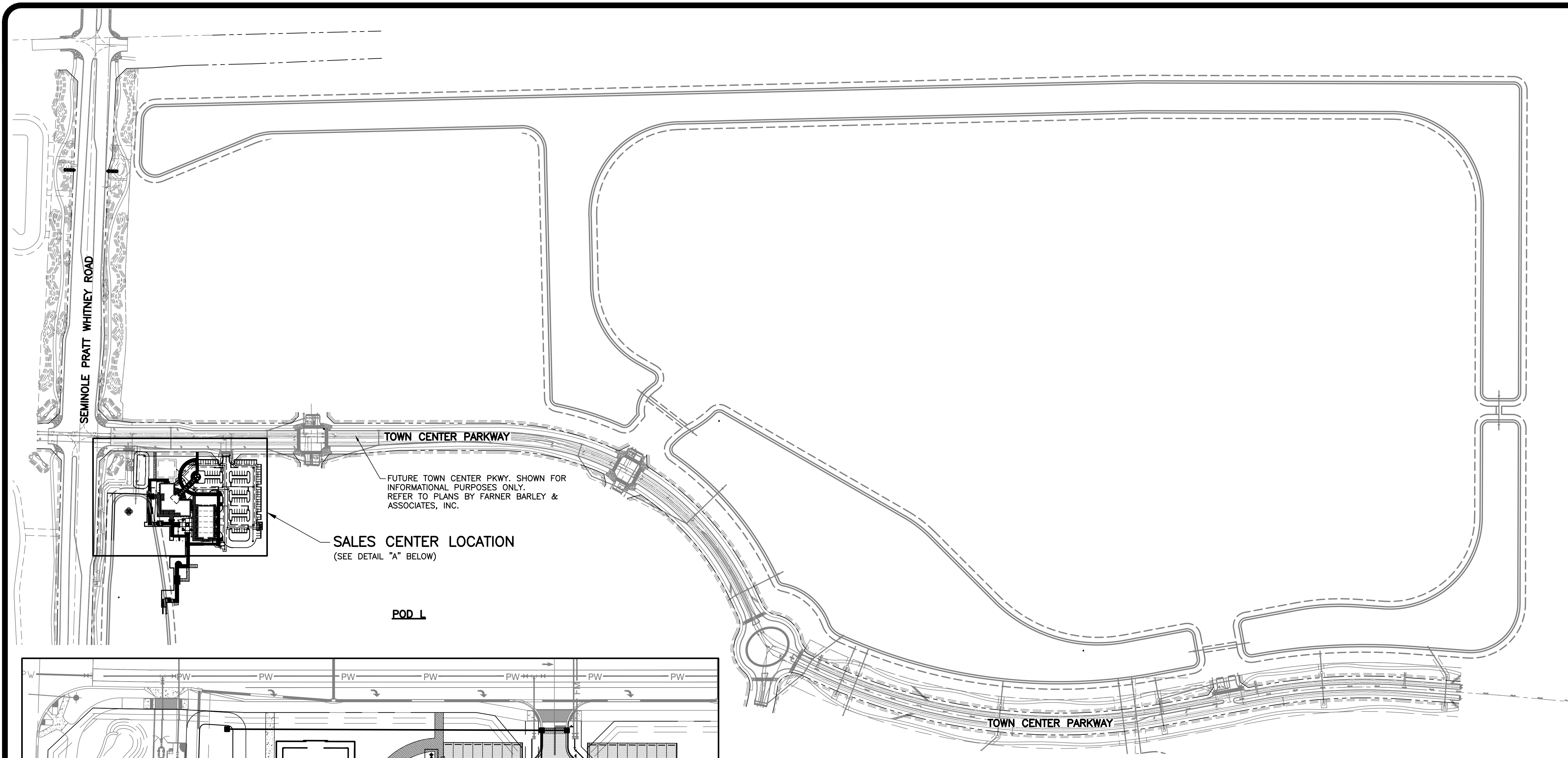
INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	MASTER PLAN
3	PAVING AND DRAINAGE PLAN
4-5	PAVING AND DRAINAGE DETAILS
6	POLLUTION PREVENTION PLAN
7	WATER AND WASTEWATER PLAN
8	LIFT STATION DETAILS
9-12	WATER AND WASTEWATER DETAILS

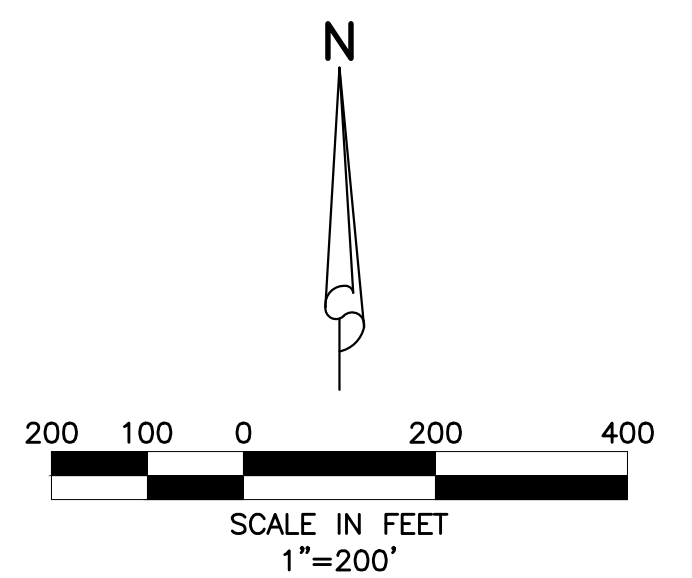
9/30/2016

PRELIMINARY

		 <small>ENGINEERING PLANNING CONSULTING SINCE 1982</small> <small>2581 Metrocentre Blvd West • Suite 3 • West Palm Beach, Florida 33407 • (561) 478-7848</small>				WESTLAKE SALES CENTER SECTION 1, TOWNSHIP 43S., RANGE 40E. CITY OF WESTLAKE, FLORIDA TITLE SHEET		
						DESIGN P.B.	DRAWN D.B.	CHECKED



LOCATION MAP
NOT TO SCALE



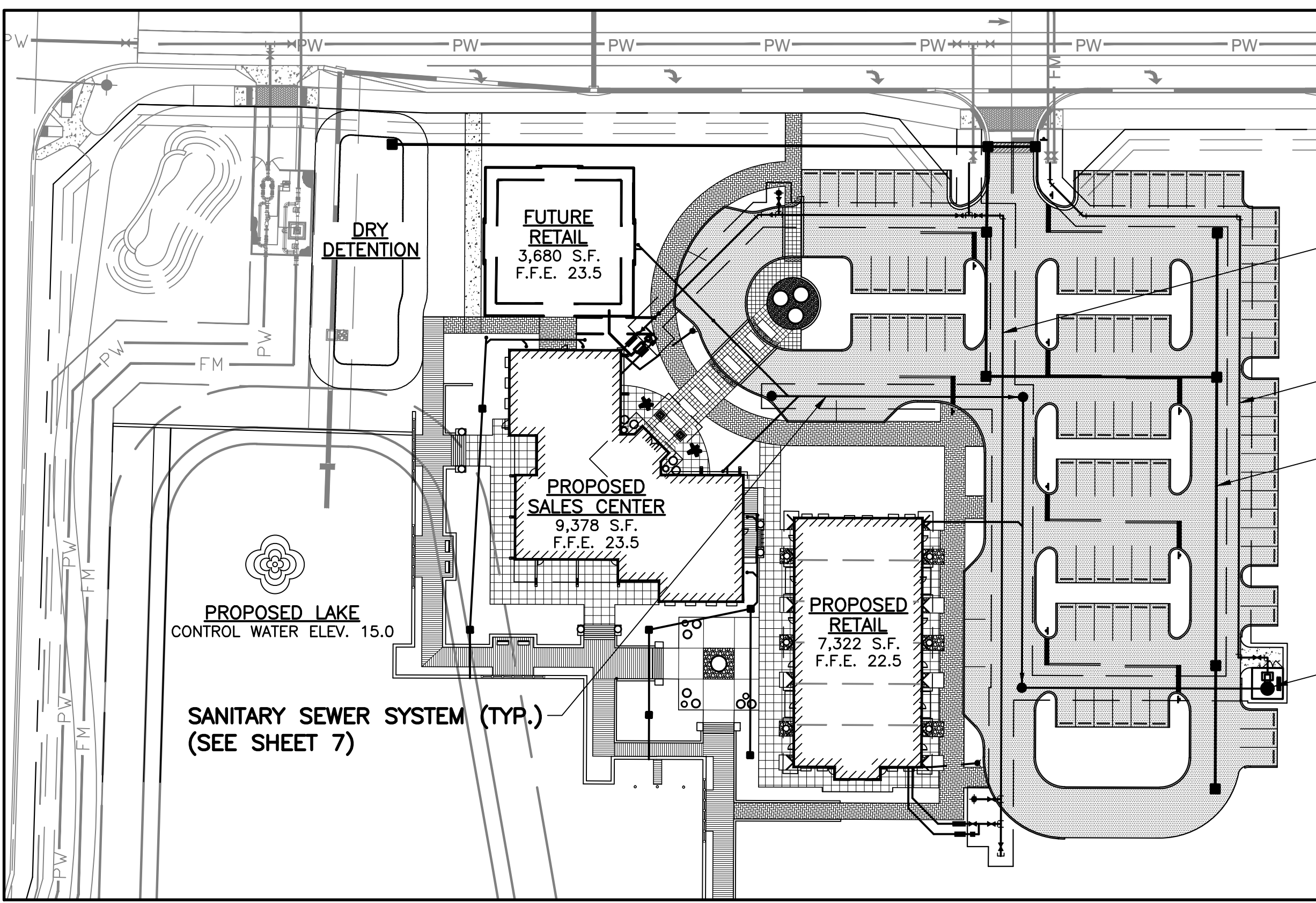
LEGEND

- PROPOSED STORM SEWER AND CATCH BASIN
- ASPHALT PAVEMENT
- CONCRETE
- DECORATIVE PAVEMENT/BRICK PAVERS
- DETECTABLE WARNING SURFACE
- CONCRETE PAVERS (SEE SITE/ARCH. PLANS FOR DETAILS)
- SEE ARCH. PLANS FOR SURFACE MATERIAL
- PROPOSED BENCH & TRASH CAN (SEE SITE PLAN FOR DETAILS)
- 24" WHITE STOP BAR, "STOP" SIGN & (25') 6" DOUBLE YELLOW
- EXISTING OVERHEAD POWER LINE & POWER POLE
- SINGLE SEWER SERVICE W/ CLEAN-OUT
- SANITARY SEWER LINE, MANHOLE AND DIRECTION OF FLOW
- FIRE HYDRANT W/ GATE VALVE
- WATER SERVICE, WATER METER & R.P.Z.
- WATER MAIN & GATE VALVE
- GATE VALVE & D.D.C.V. ASSEMBLY

FUTURE TOWN CENTER PKWY. SHOWN FOR INFORMATIONAL PURPOSES ONLY. REFER TO PLANS BY FARNER BARLEY & ASSOCIATES, INC.

SALES CENTER LOCATION (SEE DETAIL "A" BELOW)

POD L



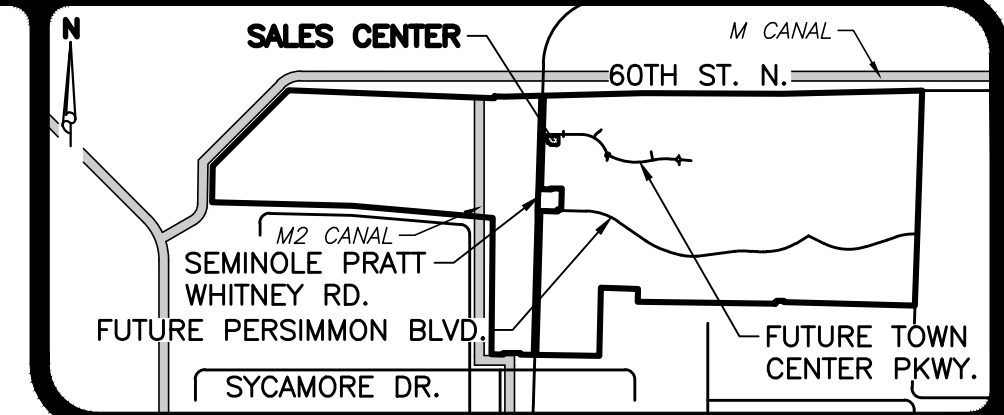
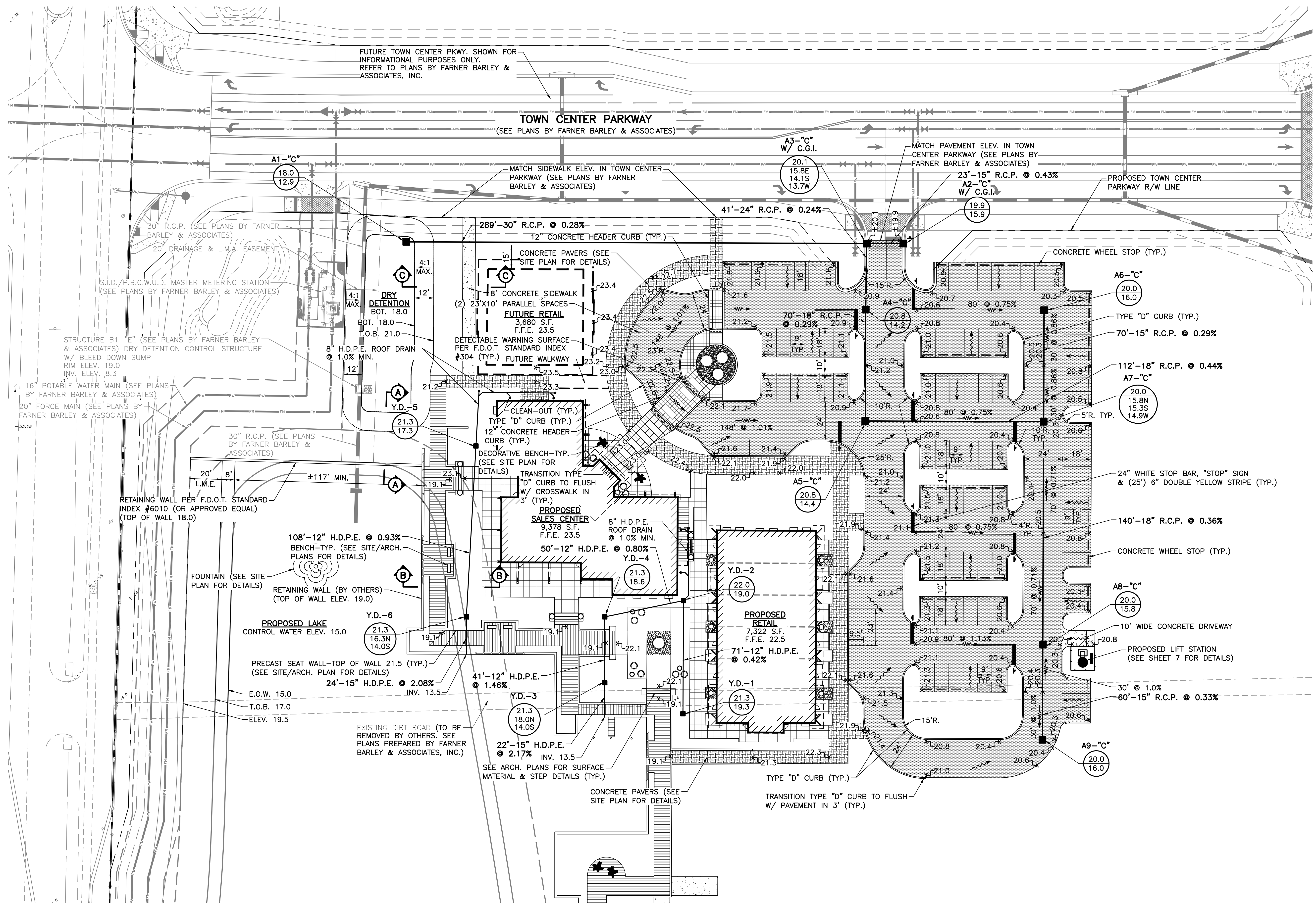
DETAIL "A"
SCALE 1"=50'

- POTABLE WATER SYSTEM (TYP.) (SEE SHEET 7)
- FORCE MAIN SYSTEM (TYP.) (SEE SHEET 7)
- STORM DRAINAGE SYSTEM (TYP.) (SEE SHEET 3)
- PROPOSED LIFT STATION (SEE SHEETS 7 AND 8)

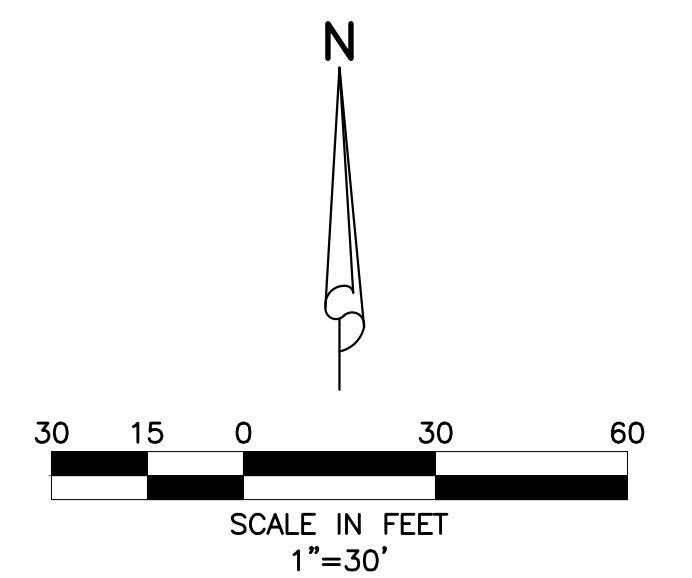
48 HOURS BEFORE DIGGING
BROWARD • PALM BEACH • INDIAN RIVER
ST. LUCIE • MARTIN COUNTIES
CALL TOLL FREE
1-800-432-4770
SUNSHINE STATE 1 CALL
UNDERGROUND UTILITIES
NOTIFICATION CENTER

9/30/2016
PRELIMINARY

 <small>ENGINEERING PLANNING CONSULTING SINCE 1982</small> <small>2581 Metrocentre Blvd West • Suite 3 • West Palm Beach, Florida 33407 • (561) 478-7848</small>					WESTLAKE SALES CENTER SECTION 1, TOWNSHIP 43S., RANGE 40E. CITY OF WESTLAKE, FLORIDA MASTER PLAN				
REVISIONS	DESIGN P.B.	DRAWN D.B.	CHECKED	APPROVED	DATE	JOB NO. 16-115	DRAWING NO. 16115S02	SHEET 2	OF 12



LOCATION MAP
NOT TO SCALE



LEGEND

- A3-"C" INLET NUMBER AND TYPE
- (18.0) INLET TOP ELEVATION
- (12.9) INVERT ELEVATION
- PROPOSED STORM SEWER AND CATCH BASIN
- DIRECTION OF FLOW
- DIRECTION OF SWALE
- x 19.0 PROPOSED GRADE ELEVATION
- x 19.1 EXISTING GRADE ELEVATION
- ASPHALT PAVEMENT
- CONCRETE
- DETECTABLE WARNING SURFACE
- CONCRETE PAVERS (SEE SITE/ARCH. PLANS FOR DETAILS)
- SEE ARCH. PLANS FOR SURFACE MATERIAL
- PROPOSED BENCH & TRASH CAN (SEE SITE PLAN FOR DETAILS)
- 24" WHITE STOP BAR, "STOP" SIGN & (25') 6" DOUBLE YELLOW EXISTING OVERHEAD POWER LINE & POWER POLE

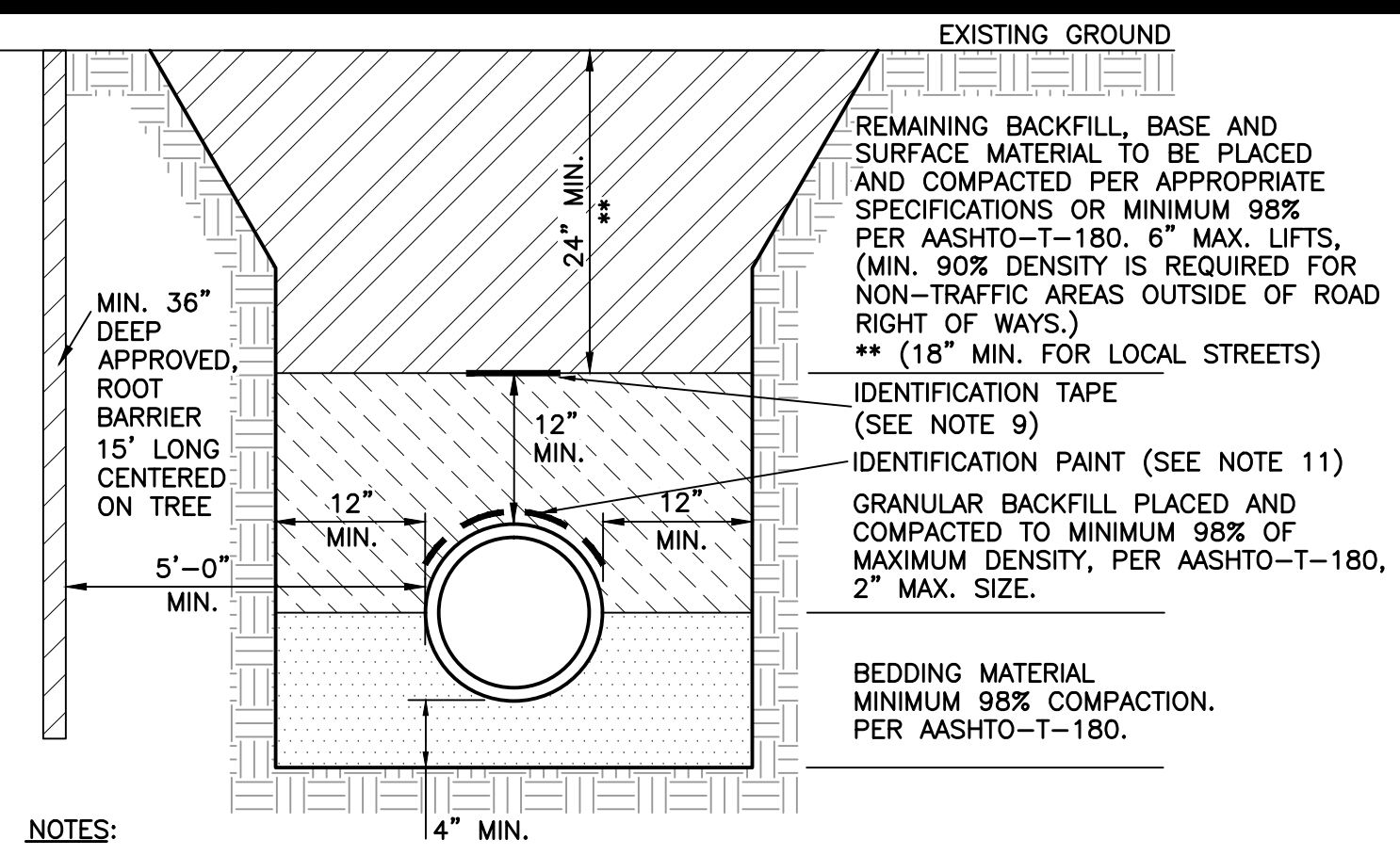
NOTES:

- CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY CONFLICTS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE ALL EXISTING UTILITY LOCATES, SUPPORT, RELOCATIONS AND NOTIFICATIONS REQUIRED WITH ALL APPLICABLE UTILITY SERVICE PROVIDERS.

48 HOURS BEFORE DIGGING
BROWARD • PALM BEACH • INDIAN RIVER
ST. LUCIE • MARTIN COUNTIES
1-800-432-4770
SUNSHINE STATE 1 CALL
UNDERGROUND UTILITIES
NOTIFICATION CENTER

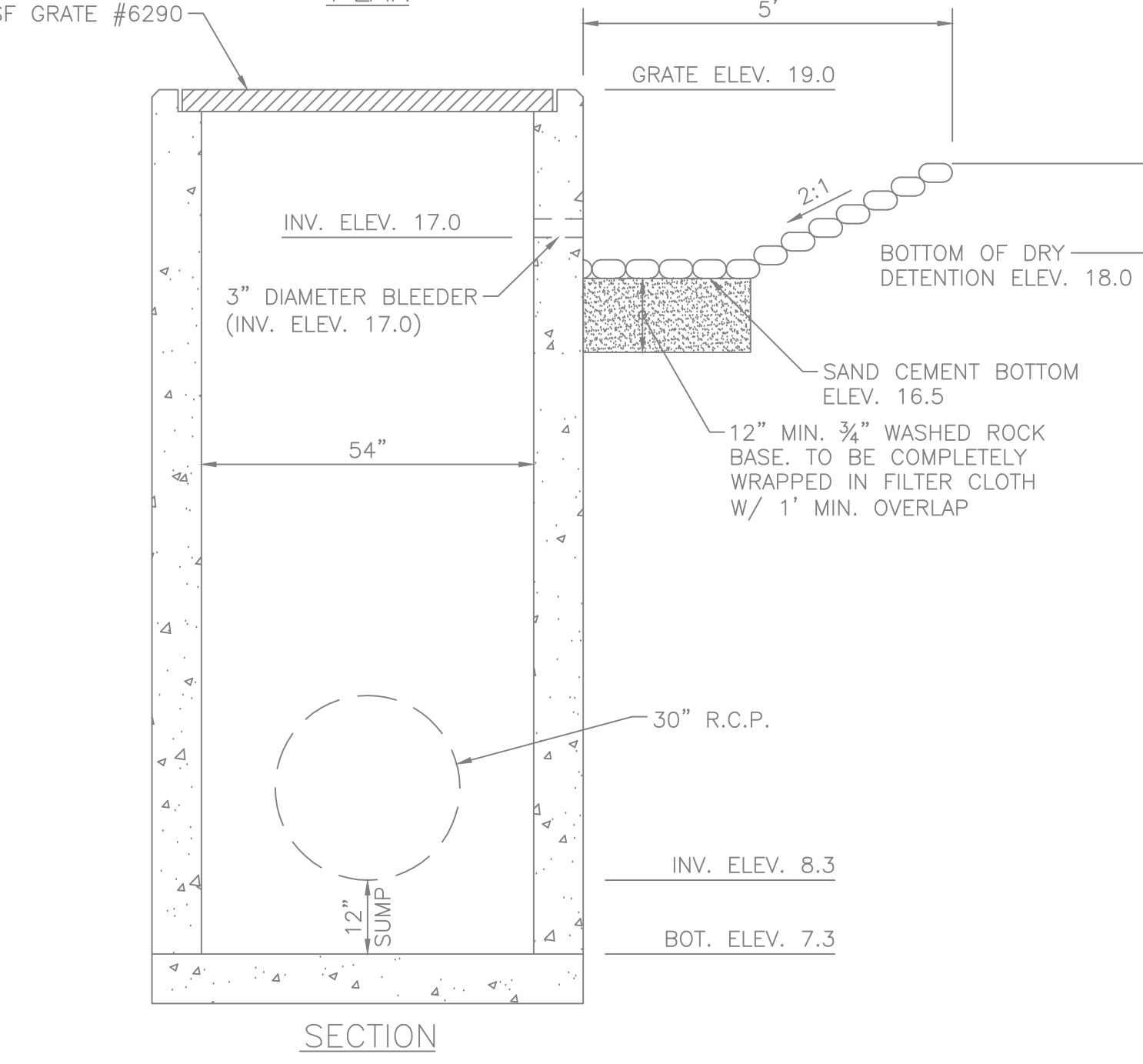
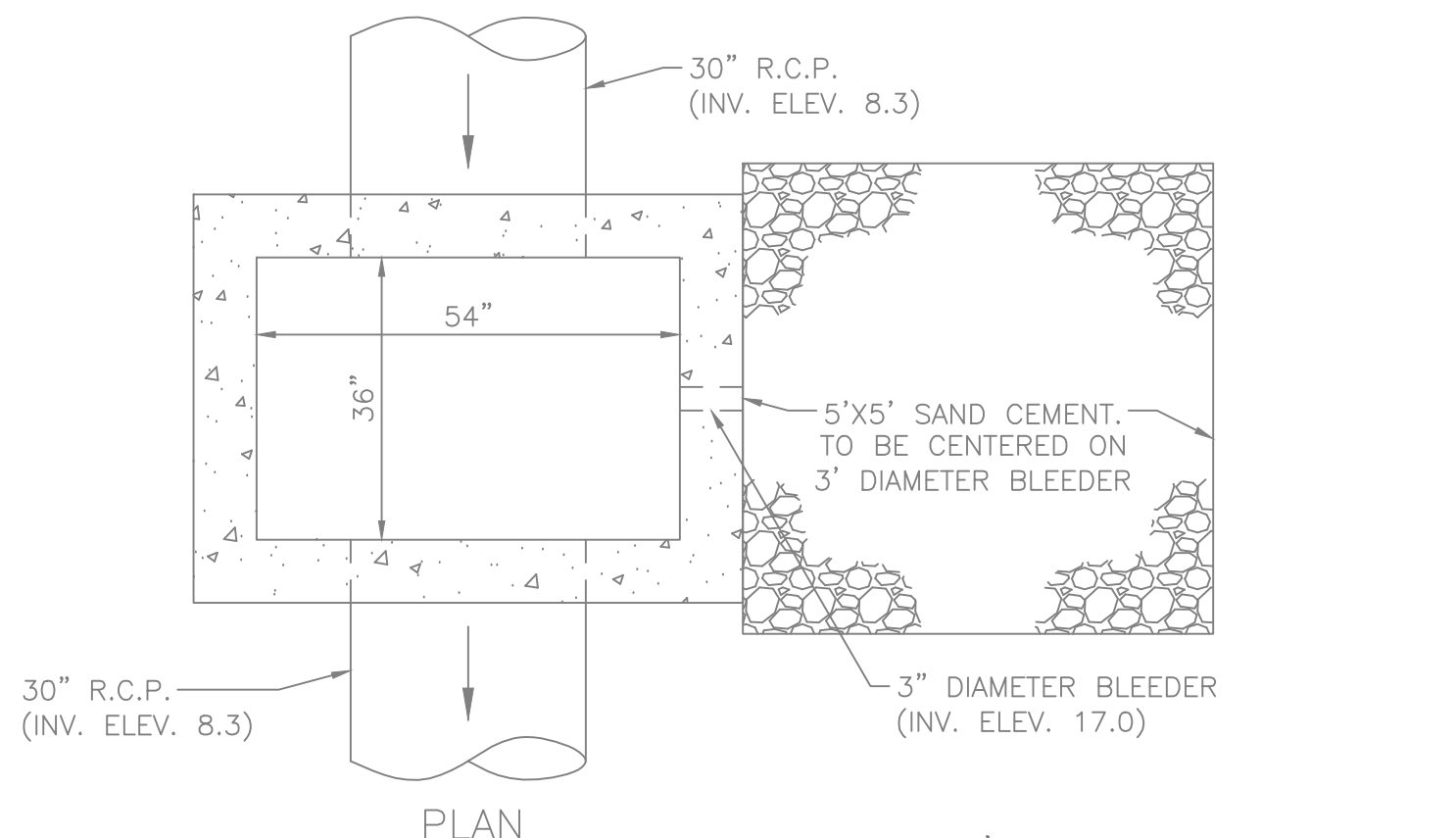
9/30/2016
PRELIMINARY

 ENGINEERING PLANNING CONSULTING SINCE 1982 <small>2581 Metrocentre Blvd West • Suite 3 • West Palm Beach, Florida 33407 • (561) 478-7848</small>				WESTLAKE SALES CENTER SECTION 1, TOWNSHIP 43S., RANGE 40E. CITY OF WESTLAKE, FLORIDA PAVING AND DRAINAGE PLAN			
DESIGN P.B.	DRAWN D.B.	CHECKED	APPROVED	DATE	JOB NO. 16-115	DRAWING NO. 16115S03	SHEET 3 OF 12
REVISIONS							



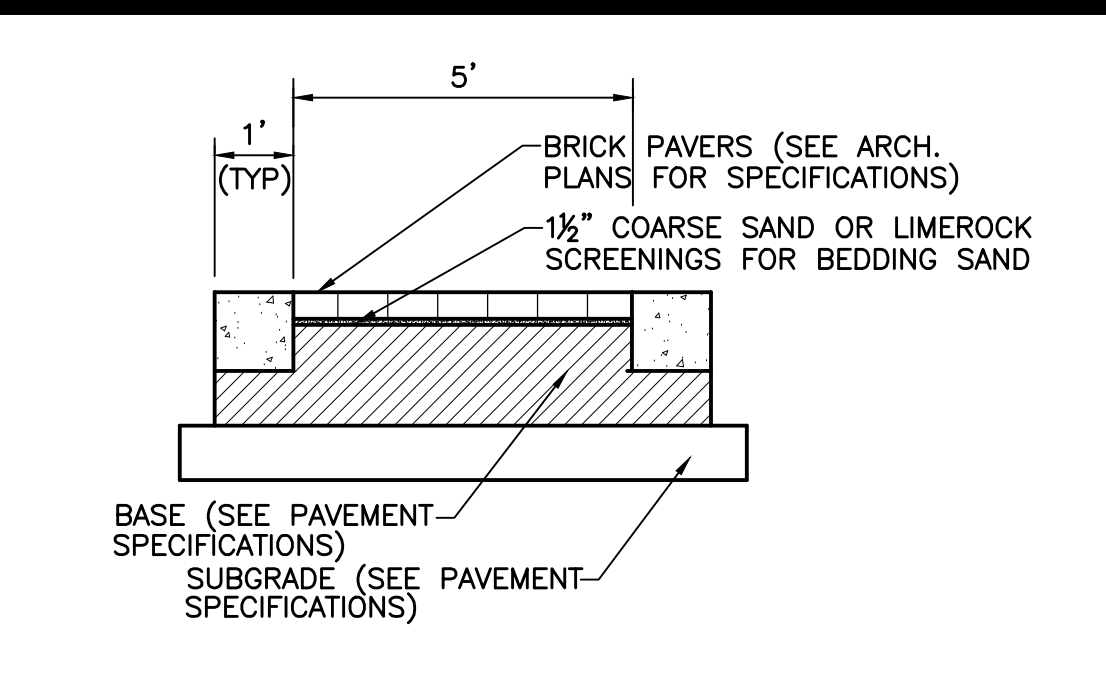
- NOTES:**
- BEDDING SHALL CONSIST OF IN-SITU GRANULAR MATERIAL OR WASHED AND GRADED LIMEROCK 3/8" - 7/8" SIZING WITH EQUAL OR GREATER STRUCTURAL ADEQUACY AS EXISTING. UNSUITABLE IN-SITU MATERIALS SUCH AS MUCK, DEBRIS AND LARGER ROCKS SHALL BE REMOVED.
 - THE PIPE SHALL BE FULLY SUPPORTED FOR ITS ENTIRE LENGTH WITH APPROPRIATE COMPACTION UNDER THE PIPE HAUNCHES.
 - THE PIPE SHALL BE PLACED IN A DRY TRENCH.
 - BACKFILL SHALL BE FREE OF UNSUITABLE MATERIAL SUCH AS LARGE ROCK, MUCK AND DEBRIS.
 - DENSITY TESTS ARE TAKEN IN 1 FOOT LIFTS ABOVE THE PIPE AT INTERVALS OF 400' MAXIMUM, (MINIMUM 1 SET) OR AS DIRECTED BY THE CONSTRUCTION COORDINATION DIVISION. RESULTS SHALL BE SUBMITTED TO CONSTRUCTION COORDINATION AS PART OF THEIR FIELD REVIEW.
 - THE PERMITTEE/DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH ALL TRENCH SAFETY LAWS AND REGULATIONS.
 - SEE SEPARATE DETAIL FOR PAVED AREAS (OPEN CUT FOR THOROUGHFARE AND NON-THOROUGHFARE ROADS).
 - THE AFFECTED AREA SHALL BE RESTORED TO EQUAL OR BETTER CONDITION OR AS SPECIFIED IN PERMIT/CONTRACT DOCUMENTS.
 - APPROVED MAGNETIC TAPE IS REQUIRED FOR ALL MAIN PRESSURE PIPES AND CONDUIT IN THE COUNTY'S RIGHT-OF-WAY. INSTALL TAPE 24" BELOW FINISHED GRADE.
 - ROOT BARRIER IS REQUIRED FOR APPROVED PIPE INSTALLATION CLOSER THAN 10 FEET FROM AN EXISTING TREE.
 - CONTINUOUS 4" WIDE PAINT STRIPING IS REQUIRED FOR DIP/PCCP WATER MAINS (BLUE), DIP SANITARY FORCE MAINS (GREEN), DIP RECLAIMED WATER MAINS (PURPLE), GAS MAINS (YELLOW), OR AS REQUIRED BY THE APWA.
 - PERMANENT ABOVE GROUND UTILITY MARKER SHALL BE INSTALLED IF REQUIRED BY PROPERTY OWNER GRANTING THE PIPE INSTALLATION PERMIT.

TYPICAL TRENCH DETAIL WITH ROOT BARRIER INSTALLATION DETAIL (NON-PAVED AREAS)
NOT TO SCALE

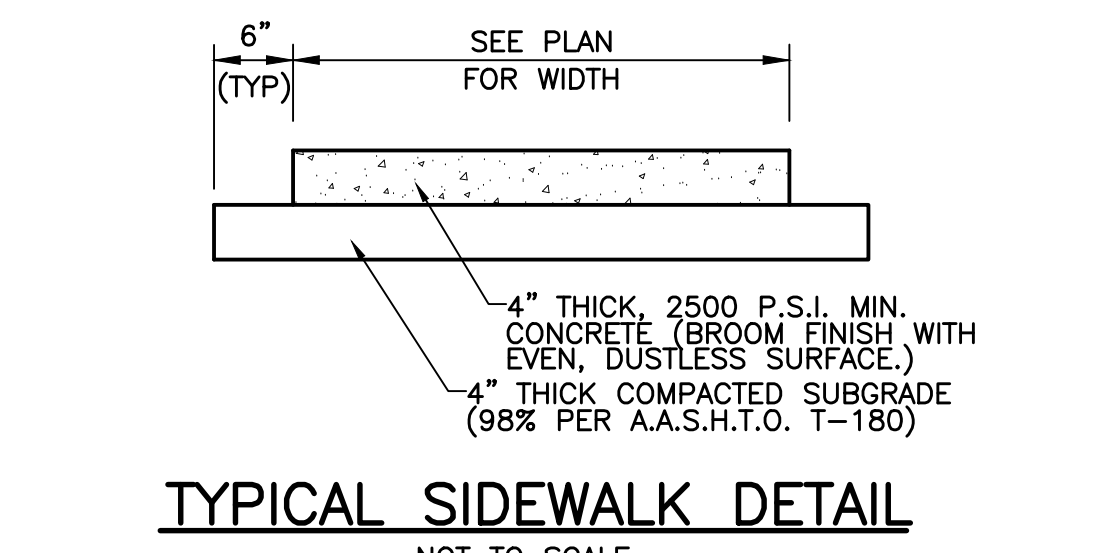


B1-"E" CONTROL STRUCTURE
NOT TO SCALE

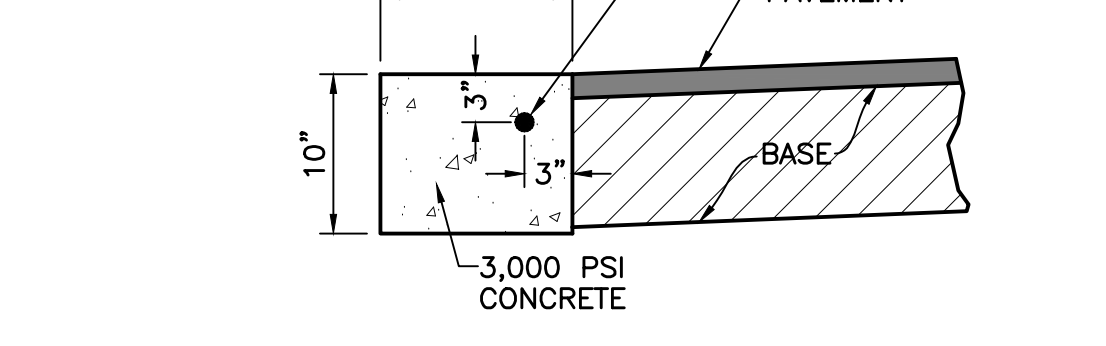
TO BE CONSTRUCTED WITH TOWN CENTER PARKWAY.
SEE PLANS BY FARNER BARLEY & ASSOCIATES



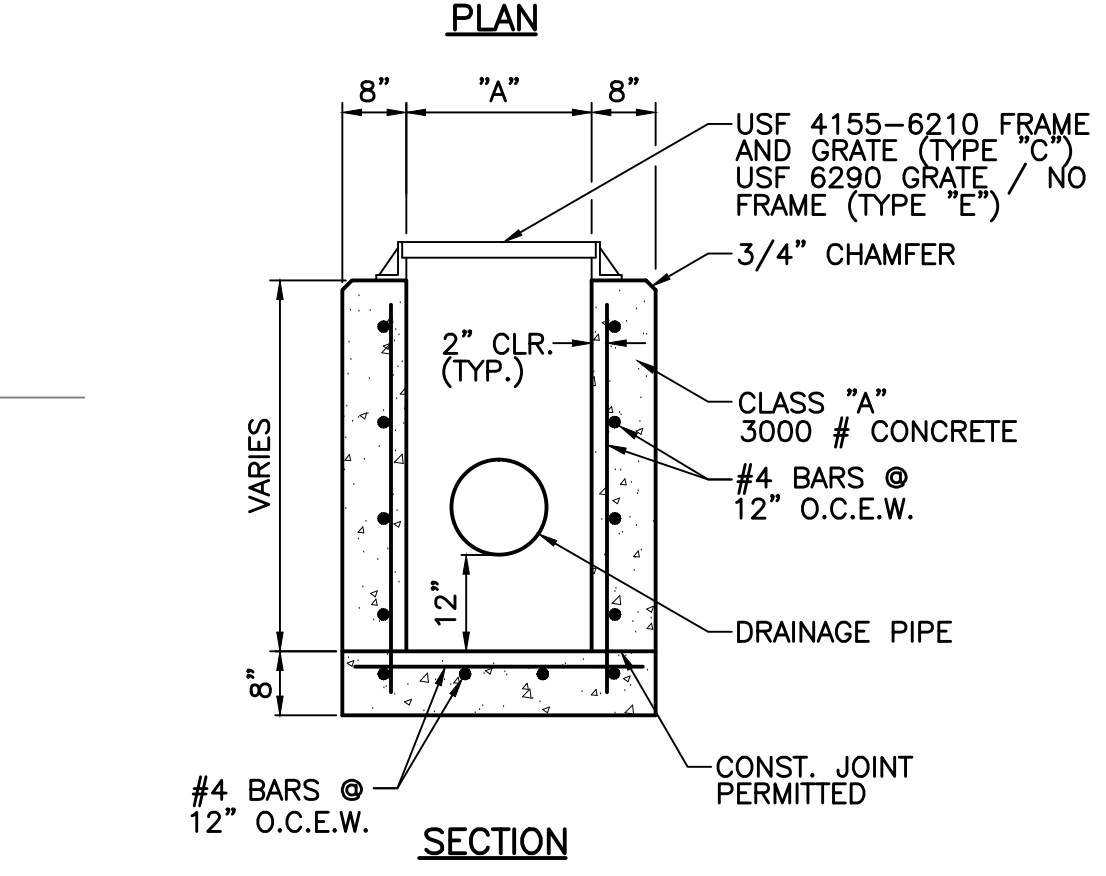
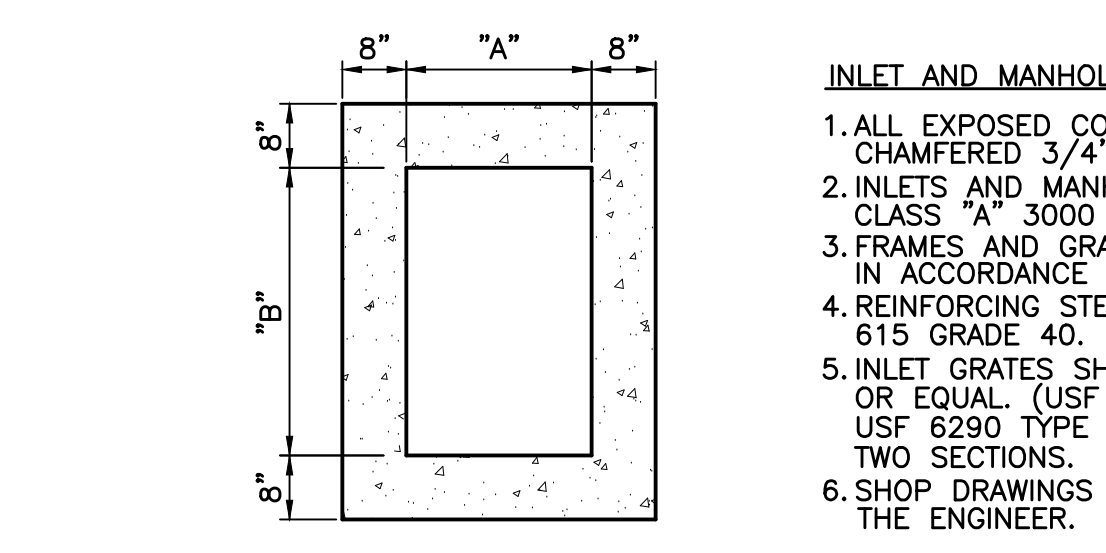
BRICK PAVER CROSSWALK DETAIL
NOT TO SCALE



TYPICAL SIDEWALK DETAIL
NOT TO SCALE

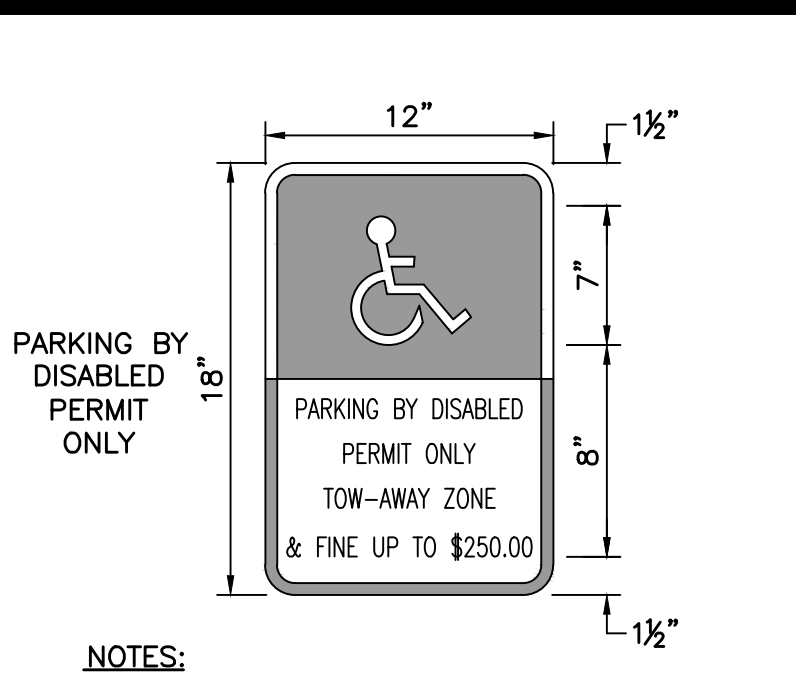


CONCRETE WHEEL STOP
NOT TO SCALE



TYPE INLET	DIMENSIONS	
	"A"	"B"
C	2'-0"	3'-1"
E	3'-0"	4'-6"

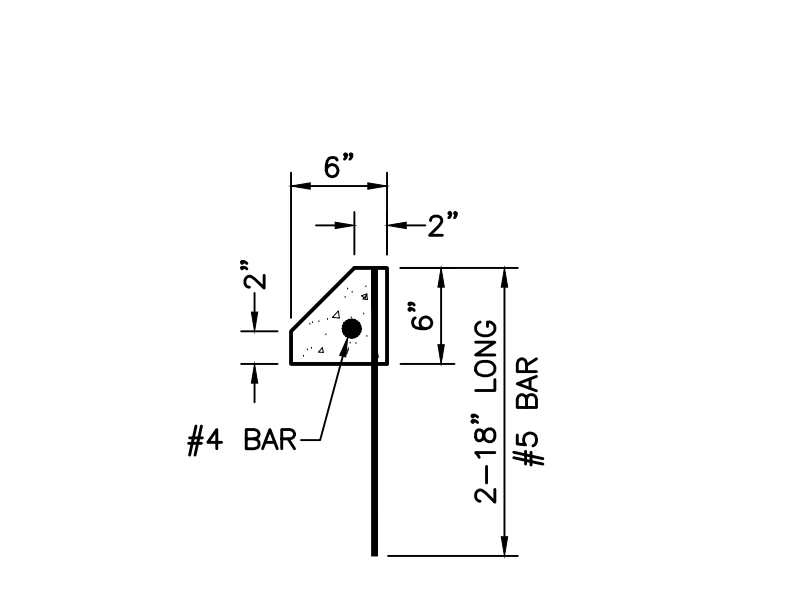
STANDARD TYPE "C" & "E" INLET
NOT TO SCALE



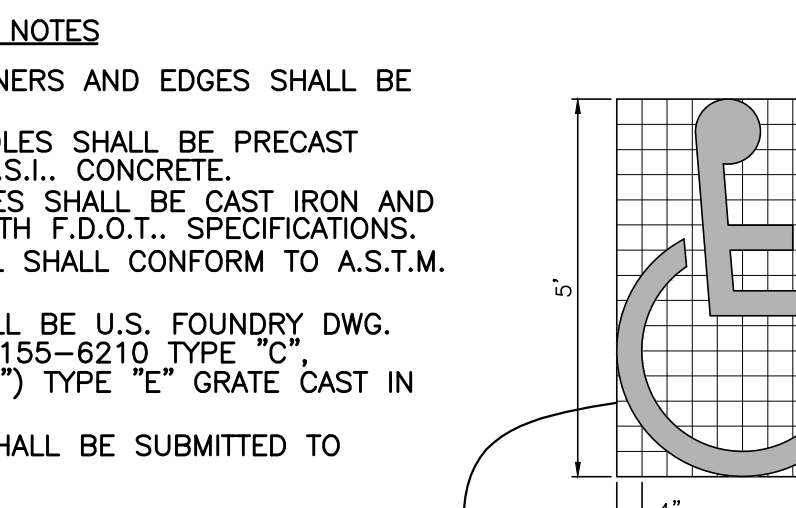
- NOTES:**
- ALL LETTERS ARE 1" SERIES 'C'.
 - TOP PORTION TO BE REFLECTORIZED BLUE BACKGROUND WITH WHITE REFLECTORIZED LEGEND AND BORDER.
 - BOTTOM PORTION TO BE REFLECTORIZED WHITE BACKGROUND WITH BLACK OPAQUE LEGEND AND BORDER.

HANDI-CAP SIGN DETAIL
NOT TO SCALE

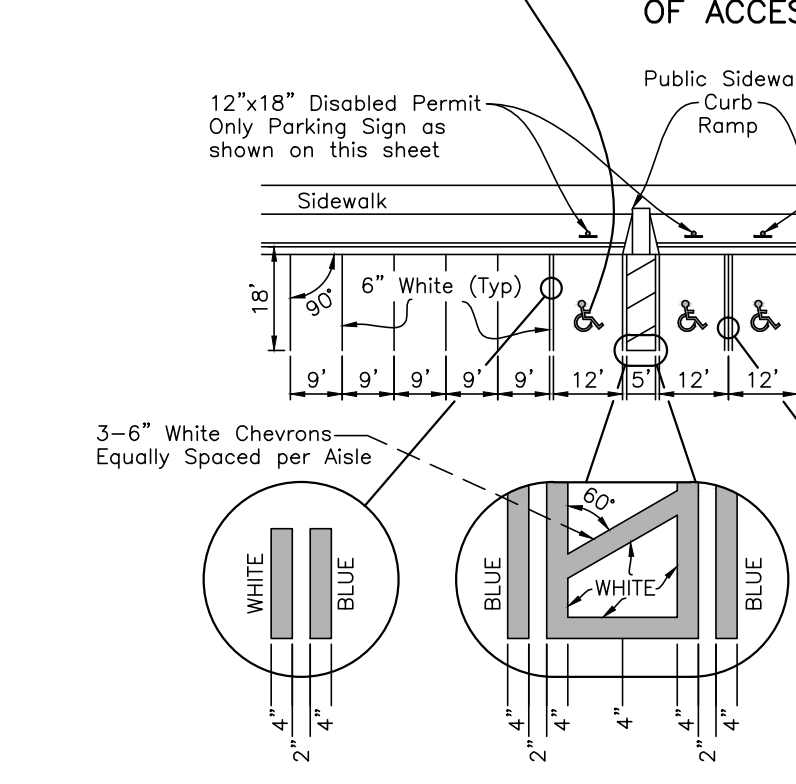
- NOTES:**
- SIGNAGE AND STRIPING TO BE CONSTRUCTED IN ACCORDANCE WITH PALM BEACH COUNTY ORDINANCE NO. 85-42



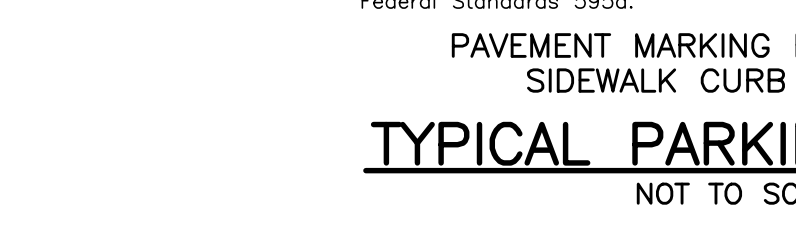
CONCRETE WHEEL STOP
NOT TO SCALE



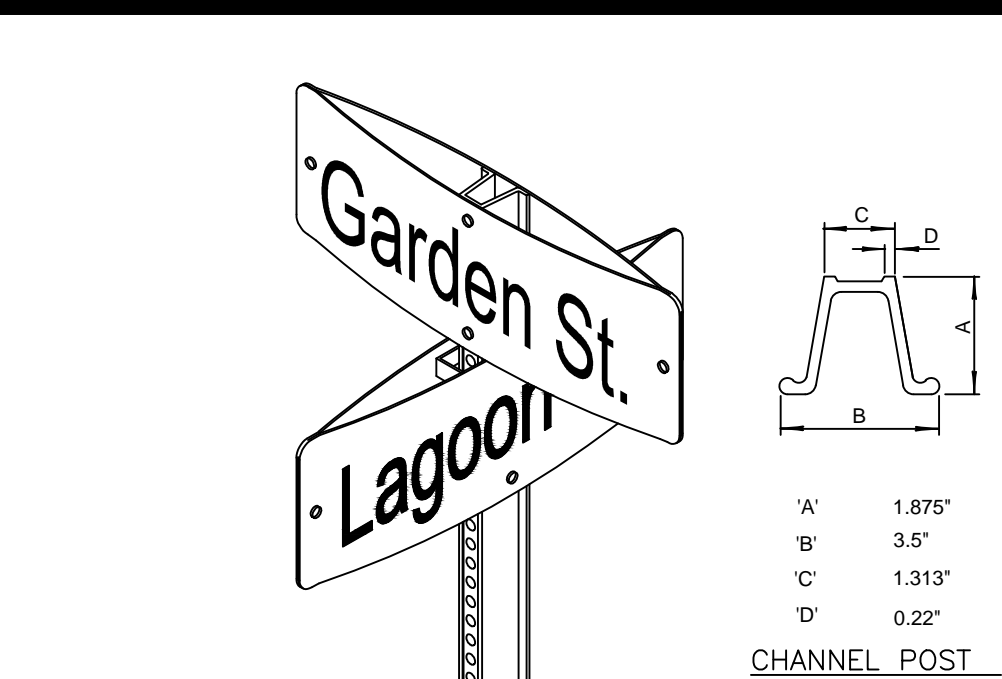
- INLET AND MANHOLE NOTES**
- ALL EXPOSED CORNERS AND EDGES SHALL BE CHAMFERED 3/4".
 - INLETS AND MANHOLES SHALL BE PRECAST CLASS "A" 3000 P.S.I. CONCRETE.
 - FRAMES AND GRATES SHALL BE CAST IRON AND IN ACCORDANCE WITH F.D.O.T. SPECIFICATIONS.
 - REINFORCING STEEL SHALL CONFORM TO A.S.T.M. 615 GRADE 40.
 - INLET GRATES SHALL BE U.S. FOUNDRY DWG. OR EQUAL (USF 4155-6210 TYPE "C" OR USF 6290 TYPE "E") TYPE "E" GRATE CAST IN TWO SECTIONS.
 - SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER.



- NOTES:**
- Dimensions are to the centerline of markings.
 - Criteria for pavement markings only, not public sidewalk curb ramp locations. For ramp locations refer to plans.
 - Blue pavement markings shall be tinted to match hatched 15180 of Federal Standards 595a.



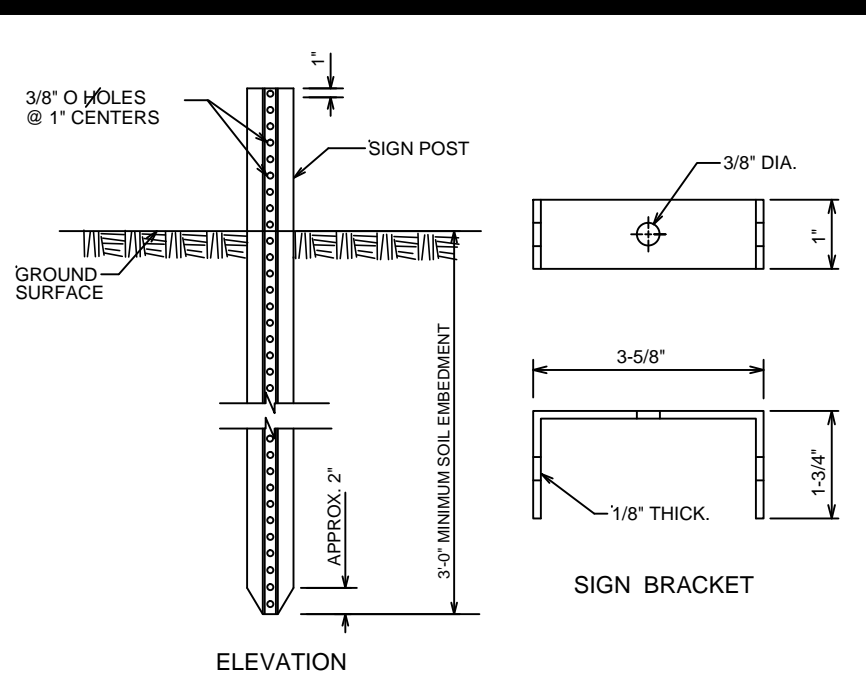
TYPICAL PARKING SPACES
NOT TO SCALE



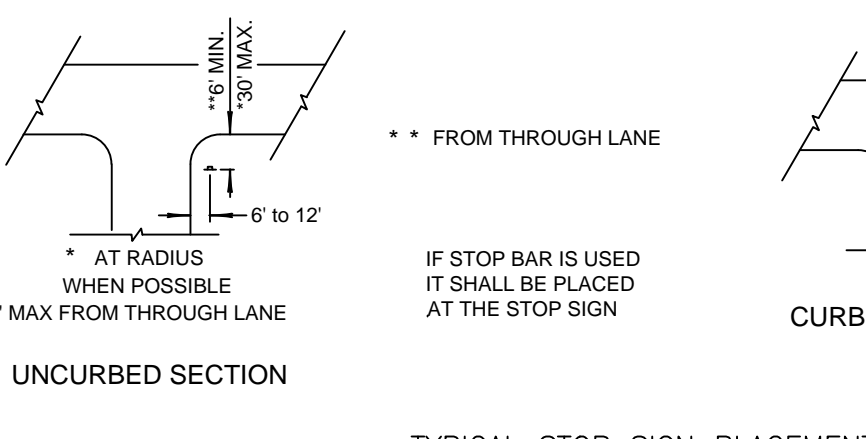
ISOMETRIC VIEW

- GENERAL SPECIFICATIONS:**
- FLAT BLADE: ALCOA #86054.6063-T6 ALLOY, ETCHED, DEGRADED WITH #1200 ALODINE FINISH WITH #3877 GREEN HIGH INTENSITY BACKGROUND AND EQUAL DIMENSIONS - 9" & 12" MIN. H, 24", 30", 36" AND 42" L.
- LETTERS: NAME - 6" UPPERCASE WITH 4.5" LOWERCASE & 9" UPPERCASE WITH 6.75" LOWERCASE SERIES, "B" #3870 HIGH INTENSITY (SILVER) OR EQUAL - SUFFIX - 4.5
- POST: STEEL FLANGED CHANNEL POST 3 LBS. PER FOOT WITH BAKED GREEN ALKYD OR GALVANIZED FINISH PER A.S.T.M. -A-123 WITHOUT ANCHOR PLATES. SQUARE POST PER FDOT INDEX 11860.
- BRACKETS SHALL BE ATTACHED FIRMLY ON STANDARD SQUARE TUBE OR U-CHANNEL POSTS BY MEANS OF (2) 3/8" DIAMETER HEX HEAD BOLTS.
- STOP SIGN: R1-1 MUTCD - (HIGH INTENSITY)
- LOCATION: ONE PER INTERSECTION AS INDICATED ON THE PLANS.
- POLICY: 9" BLADES WITH 6" UPPER CASE WITH 4.5" LOWERCASE LETTERS FOR TWO LANE ROADS WITH A SPEED LIMIT UNDER 45 MPH 12" BLADES WITH 9" UPPER CASE WITH 6.75" LOWERCASE LETTERS FOR THOROUGHFARE ROADS FOUR LANES OR WIDER. TWO LANE ROADS WITH A POSTED SPEED LIMIT OF 45 MPH OR MORE. ONLY ONE BLADE WILL BE USED INDICATING THE SIDE STREET NAME.

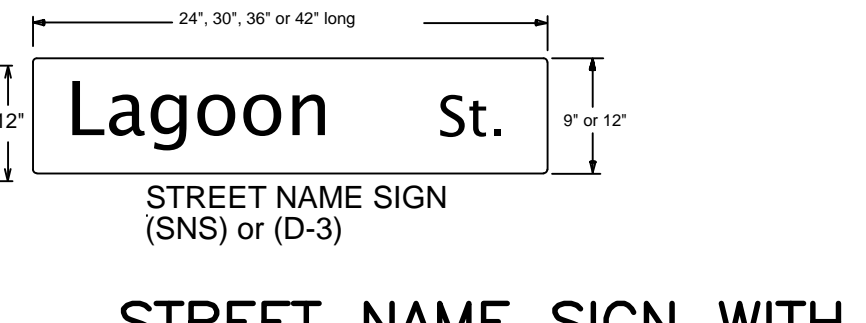
STREET NAME SIGN WITH STOP SIGN
NOT TO SCALE



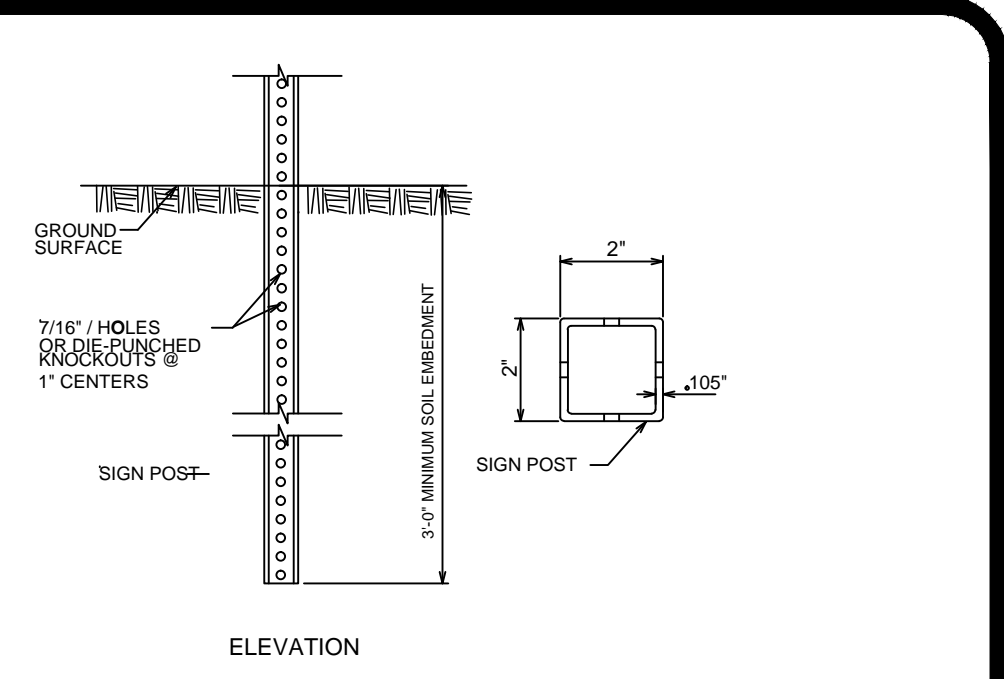
STEEL FLANGED CHANNEL POST DETAILS



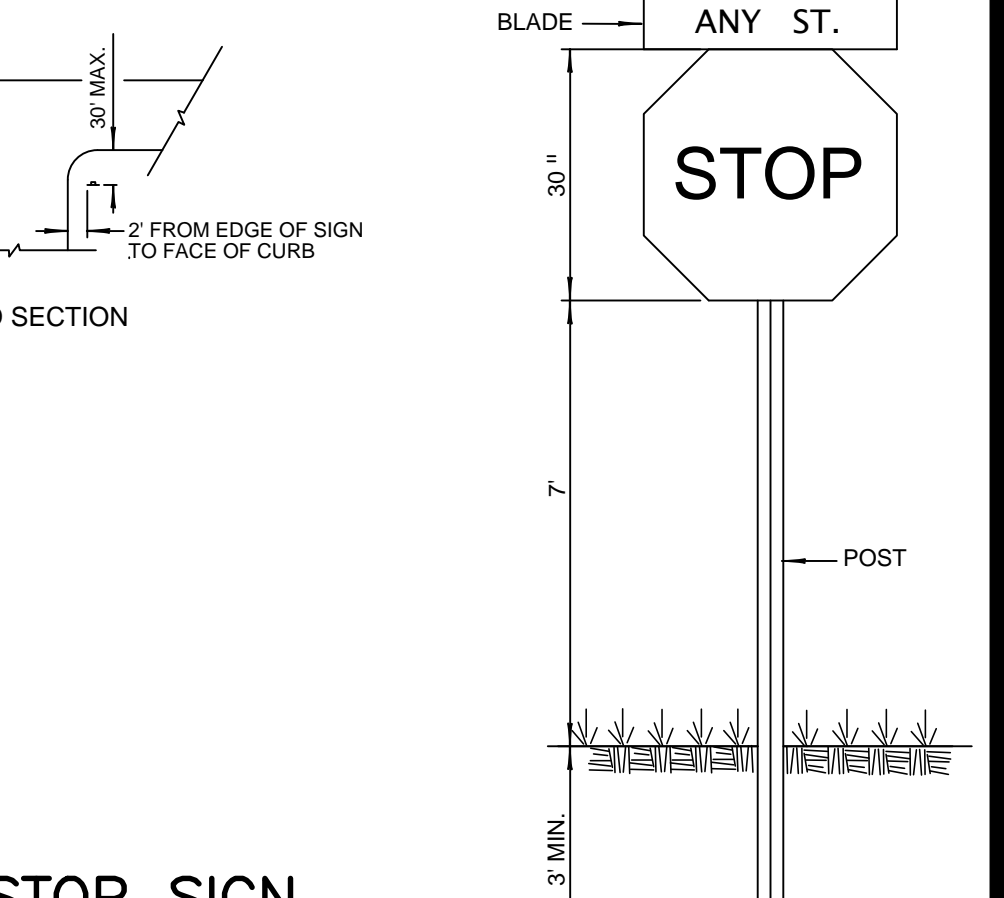
TYPICAL STOP SIGN PLACEMENT



STREET NAME SIGN WITH STOP SIGN
NOT TO SCALE



STEEL SQUARE TUBE POST DETAILS



STOP SIGN WITH STOP SIGN
NOT TO SCALE

9/30/2016
PRELIMINARY

WESTLAKE SALES CENTER
SECTION 1, TOWNSHIP 43S., RANGE 40E.
CITY OF WESTLAKE, FLORIDA
PAVING AND DRAINAGE DETAILS

DESIGN P.B.	DRAWN D.B.	CHECKED	APPROVED	DATE
				REVISIONS

JOB NO. 16-115	DRAWING NO. 16115S04	SHEET 4	OF 12
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GENERAL NOTES:

1. NOTIFY ENGINEER OF IN-FIELD CONFLICTS OR DESIGN DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.
2. EXISTING WATER, SEWER AND DRAINAGE SYSTEMS ARE REPRESENTED AS DASHED LINES AND SHALL BE VERIFIED BY CONTRACTOR.
3. CONTRACTOR SHALL PROTECT ALL UTILITIES AND PUBLIC IMPROVEMENTS AND SHALL BE RESPONSIBLE FOR ALL DAMAGES CAUSED DURING CONSTRUCTION AND SHALL REPAIR SAID DAMAGES AT HIS EXPENSE. CONTRACTOR TO RESTORE ALL AREAS DISTURBED DURING CONSTRUCTION TO ORIGINAL OR BETTER CONDITION.
4. SUPPORT OR THE RELOCATION OF EXISTING STREET LIGHT POLES, POWER OR TELEPHONE POLES, EXISTING UTILITIES, IRRIGATION SYSTEMS, SIDEWALKS, WALLS, ETC. NECESSARY FOR COMPLETION OF THIS WORK ARE THE RESPONSIBILITY OF THE CONTRACTOR AT HIS EXPENSE.
5. INFORMATION SHOWN ON THESE DRAWINGS AS TO THE LOCATION OF EXISTING UTILITIES HAS BEEN PREPARED FROM THE MOST RELIABLE DATA AVAILABLE TO THE ENGINEER. THIS INFORMATION IS NOT BE GUARANTEED, HOWEVER, AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION, CHARACTER AND DEPTH OF ANY EXISTING UTILITIES. ALL "AS-BUILT" INFORMATION INCLUDING LOCATION AND ELEVATION OF UTILITY STUB-OUTS TO BE FIELD VERIFIED BY CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION OR ORDERING OF STRUCTURES. NOTIFY ENGINEER OF DISCREPANCIES/CONFLICTS.
6. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS CONCERNING SIDEWALKS, RAMPS, STRIPING AND SIGNAGE, LIGHTING AND ELECTRICAL CONDUIT, ETC.
7. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS AND NOTIFY THE ENGINEER OF ANY DEVIATIONS PRIOR TO COMMENCING CONSTRUCTION.
8. SIDEWALKS TO BE FLUSH WITH YARD AREAS UNLESS OTHERWISE NOTED.
9. ALL DRAINAGE CONSTRUCTION SHALL CONFORM TO FLORIDA DEPT. OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) AND CITY OF WESTLAKE REQUIREMENTS.
10. GRADE ALL PAVEMENT AREAS TO CATCH BASINS. CONTRACTOR TO NOTIFY ENGINEER IF IN-FIELD CONDITIONS CHANGE, ARCHITECTURAL DETAILS WILL CREATE CONFLICTS WITH DRAINAGE DESIGN SHOWN, POTENTIAL EROSION PROBLEMS ARISE OR STANDING WATER OCCURS.
11. ALL ELEVATIONS SHOWN HEREON REFER TO N.A.V.D. 1988 TOPOGRAPHIC AND BOUNDARY SURVEY PROVIDED BY GEOPPOINT SURVEYING, INC. (561) 444-2720.
12. ALL DRAINAGE PIPE SHOWN AS R.C.P. SHALL BE REINFORCED CONCRETE PIPE CLASS III, WALL "B" AND CONFORMING TO FLORIDA DEPT. OF TRANSPORTATION SPECIFICATIONS.
13. CONTRACTOR SHALL PROVIDE ADEQUATE EQUIPMENT FOR THE REMOVAL OF STORM, SURFACE AND/OR SUBSURFACE WATER WHICH MAY ACCUMULATE IN THE EXCAVATION AREAS SO THAT IT WILL BE SUITABLY DRY FOR WORK REQUIRED.
14. NO OFF-SITE DISCHARGE FROM DEWATERING OPERATIONS SHALL BE PERMITTED UNLESS THE CONTRACTOR SECURES WRITTEN PERMISSION FROM THE GOVERNING AUTHORITIES.
15. ALL SUB-BASE UNDER ROADWAYS, PARKING LOTS, CURBS, ETC. SHALL BE COMPACTED TO NOT LESS THAN 98% OF MAXIMUM DENSITY AS DETERMINED BY A.A.S.H.T.O. T-180 PROCTOR.
16. WHERE ENCOUNTERED (OR SPECIFIED IN THE GEOTECHNICAL REPORT), MUCK/UNSUITABLE MATERIALS SHALL BE COMPLETELY REMOVED FROM PROPOSED PAVING AND BUILDING AREAS 10 FEET BEYOND THE EDGE OF PAVEMENT/BUILDING PAD EACH SIDE.
17. CONTRACTOR TO PROVIDE TEST REPORTS FROM AN INDEPENDENT LABORATORY FOR PROCTORS AND DENSITIES ON BASE, SUBGRADE AND PIPE BACKFILL.
18. CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPLETE PAVING AND DRAINAGE, WATER AND SEWER CONSTRUCTION RECORD INFORMATION TO THE ENGINEER.
19. CONTRACTOR SHALL ARRANGE FOR THE ENGINEER TO OBSERVE:
 - A. STORM SEWER AFTER GROUTING AND WHEN BACKFILL IS COMPLETED TO THE MIDPOINT OF THE PIPE.
 - B. STRINGLINING OF SUBGRADE.
 - C. STRINGLINING/BOARDING OF BASE.
20. THE CONTRACTOR SHALL FILL AND FINE GRADE ALL PLANTING AREAS, LEAVING THE FINISHED GRADE SMOOTH AND READY TO RECEIVE SOD OR OTHER PLANTING MATERIAL. WHERE SOD IS DESIRED, THE FINISHED GRADES SHALL BE TWO (2) INCHES LOWER TO ALLOW FOR THICKNESS OF THE GRASS. SPECIAL ATTENTION SHALL BE GIVEN ALONG EDGE OF PAVEMENT AND SIDEWALKS SO AS NOT TO TRAP WATER.
21. ANY SHELLROCK OR LIMEROCK PAVING BASE INSTALLED WITHIN PLANTING AREAS SHALL BE REMOVED IN ITS ENTIRETY PRIOR TO PLACING PLANTER AREA FILL.
22. ALL SWALE, RIGHT OF WAY AREAS AND YARD AREAS SHALL BE GRADED AND SEEDED OR SODDED IN ACCORDANCE WITH GOVERNING AGENCY STANDARDS. NO AREAS SHALL BE LEFT BARREN OR SUBJECT TO EROSION.
23. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ADHERE TO ALL O.S.H.A. RULES AND FLORIDA LAWS RELATED TO TRENCH SAFETY.
24. CONTRACTOR SHALL ENSURE NO SEDIMENT OR DEBRIS LEAVES THE SITE DURING CONSTRUCTION IN ACCORDANCE WITH N.P.D.E.S. REQUIREMENTS (SILT FENCE, HAY BALES OR SOD APRONS AT INLETS, WASH ROCK EXIT, ETC. MAY BE REQUIRED TO MEET SAID REQUIREMENTS). CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION, IMPLEMENTATION AND CERTIFICATION OF ALL N.P.D.E.S. POLLUTION PREVENTION RELATED MEASURES (i.e. FILING OF AN N.O.I. POLLUTION PREVENTION PLAN MONITORING REPORTS, ETC.)
25. CONTRACTOR SHALL REFER TO LANDSCAPE PLANS FOR PLANTING AND BERMING REQUIREMENTS AND NOTIFY ENGINEER OF ANY CONFLICTS WITH THIS PLAN.

DENSITY TESTING REQUIREMENTS:

- A. PIPE TRENCHES SHALL BE TESTED AT RANDOMLY SELECTED LOCATIONS ALONG THE LENGTH OF EACH PIPE RUN WITHIN EACH 300' INTERVAL (MAXIMUM) AND BETWEEN EACH SET OF TWO STRUCTURES IF A PIPE RUN SEPARATING THE TWO IS LESS THAN 300' IN LENGTH.
 - B. ALL PIPE AND STRUCTURE TRENCHES SHALL BE BACKFILLED USING A MAX. OF 12" LIFTS. ALL BACKFILL MATERIAL SHALL BE CLEAN, DRY STRUCTURAL FILL, WITH NO DELETERIOUS OR ORGANIC MATERIAL PRESENT.
 - C. AT LEAST ONE TEST SHALL BE PERFORMED FOR EVERY 12" OF DEPTH, STARTING AT THE SPRINGLINE OF THE PIPE, COVERING THE 12" LAYER BELOW THE SPRINGLINE OF THE PIPE.
 - D. TESTS SHALL BE PERFORMED AT EVERY STRUCTURE BEGINNING AT THE BASE OF THE STRUCTURE (COVERING THE 12" BELOW THE BASE OF THE STRUCTURE) WITH ONE TEST FOR EVERY 12" LIFT. TESTS SHALL ALTERNATE FROM CORNER TO CORNER OR FROM SIDE TO SIDE AROUND THE STRUCTURE WITH EACH 12" LIFT.
 - E. ALL DENSITY TESTS SHALL BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL GEOTECHNICAL ENGINEER, LICENSED IN THE STATE OF FLORIDA.
- NOTE: ALL TESTS AND LOCATIONS ARE SUBJECT TO REVIEW BY REPRESENTATIVES OF OUR OFFICE AND ADDITIONAL TESTS MAY BE REQUIRED BASED ON FIELD OBSERVATIONS OF CONSTRUCTION TECHNIQUES OR MATERIALS USED ON SITE.

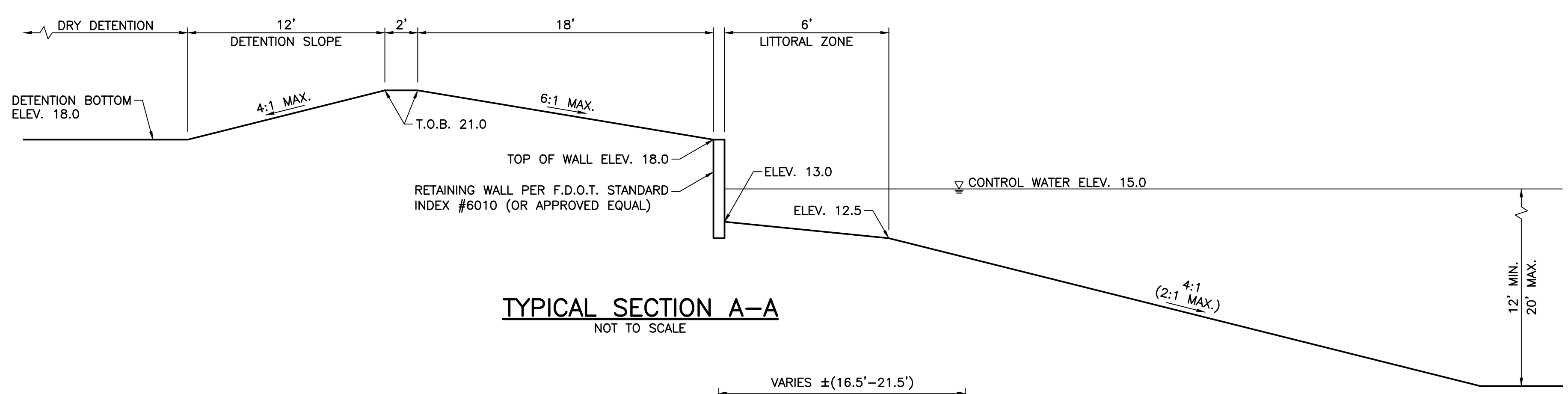
PAVEMENT SPECIFICATIONS:

SURFACE - 1½" A.C.S.C. TYPE S-3 (CONSTRUCT IN TWO (2) ¾" LIFTS).

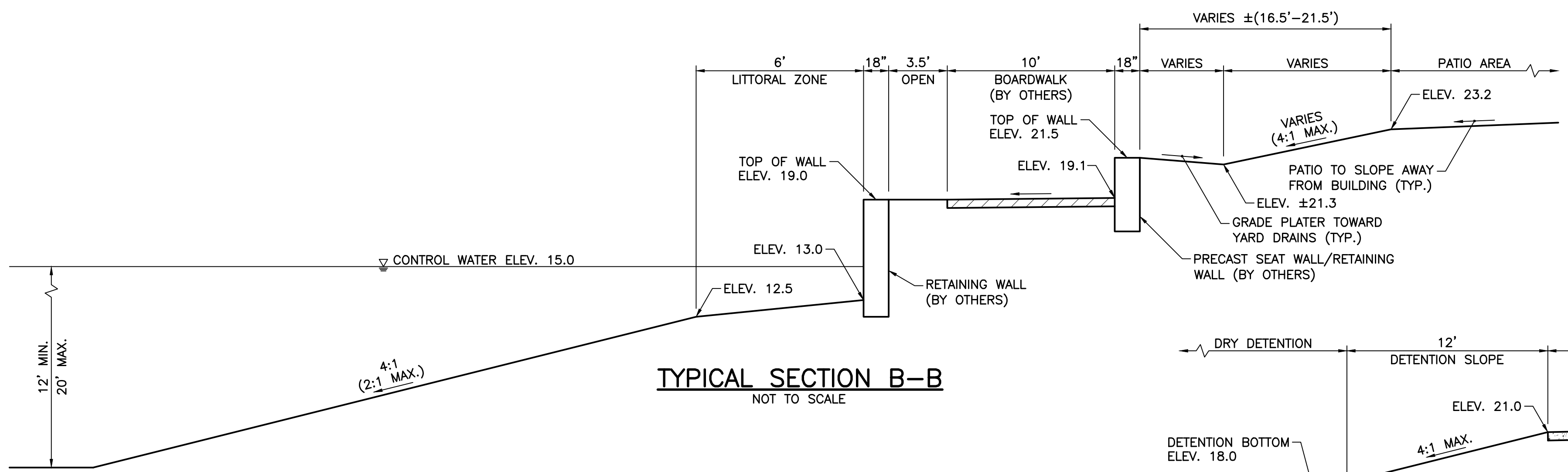
BASE - 6½" LIMEROCK OR 8" SHELLROCK (40% MIN. CARBONATES AND CONSTRUCT IN 2 EQUAL LIFTS). LBR 100 MIN., PRIMED WITH RC-70 @ 0.10 GAL./SQ. YARD.

SUBGRADE - 12" GRANULAR MATERIAL, COMPACT TO 98% PER A.A.S.H.T.O. T-180

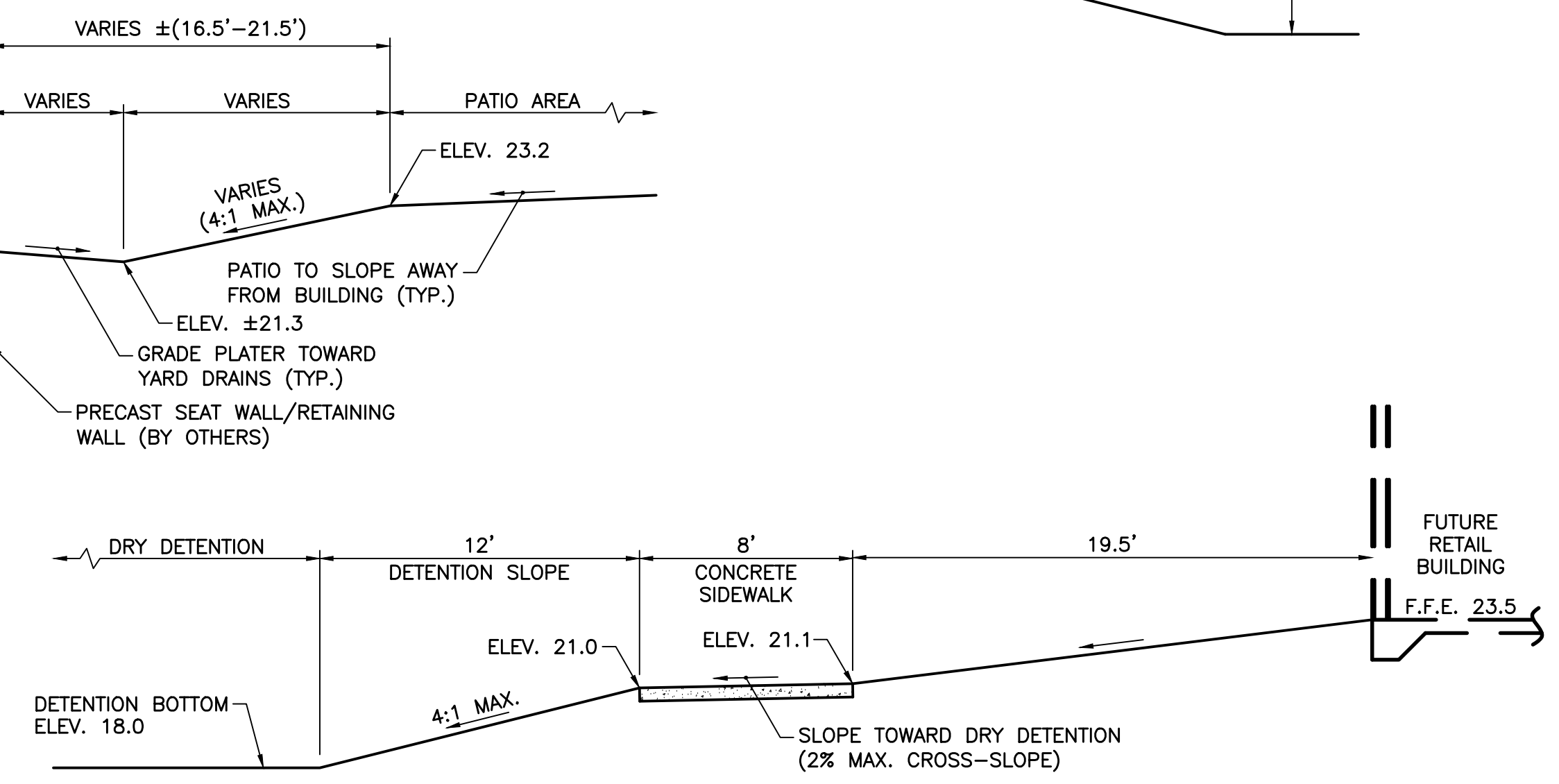
NOTE: BASE MATERIAL TO BE THICKENED TO 10½" (12½" IF SHELLROCK) BENEATH BRICK PAVER CROSSWALK AREAS. SEE SHEET 4 FOR BRICK PAVER CROSSWALK DETAIL.



TYPICAL SECTION A-A
NOT TO SCALE



TYPICAL SECTION B-B
NOT TO SCALE



TYPICAL SECTION C-C
NOT TO SCALE

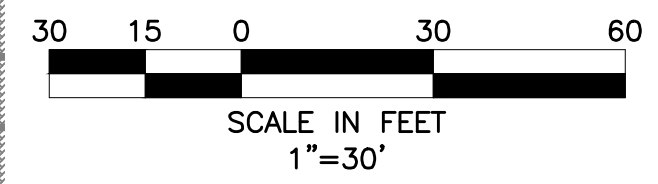
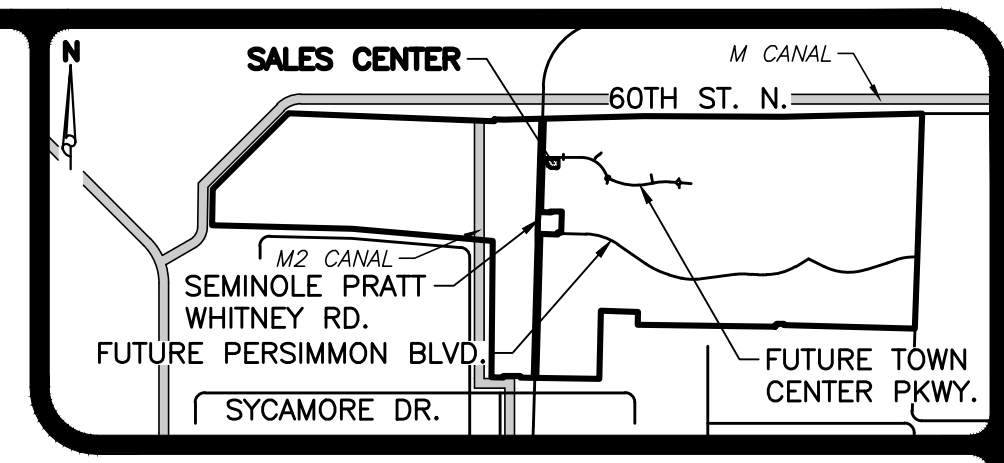
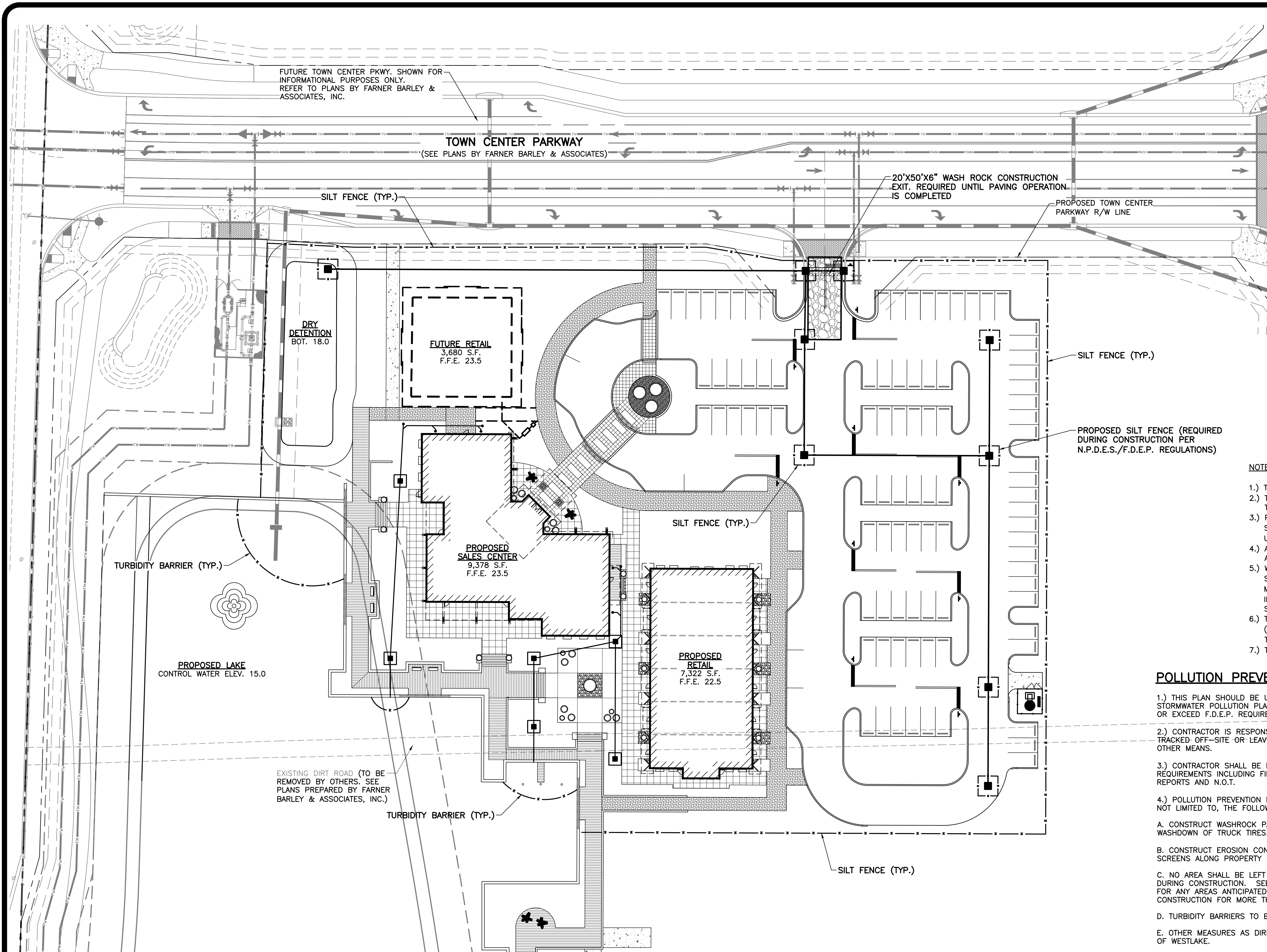
9/30/2016
PRELIMINARY

WESTLAKE SALES CENTER
SECTION 1, TOWNSHIP 43S., RANGE 40E.
CITY OF WESTLAKE, FLORIDA
PAVING AND DRAINAGE DETAILS

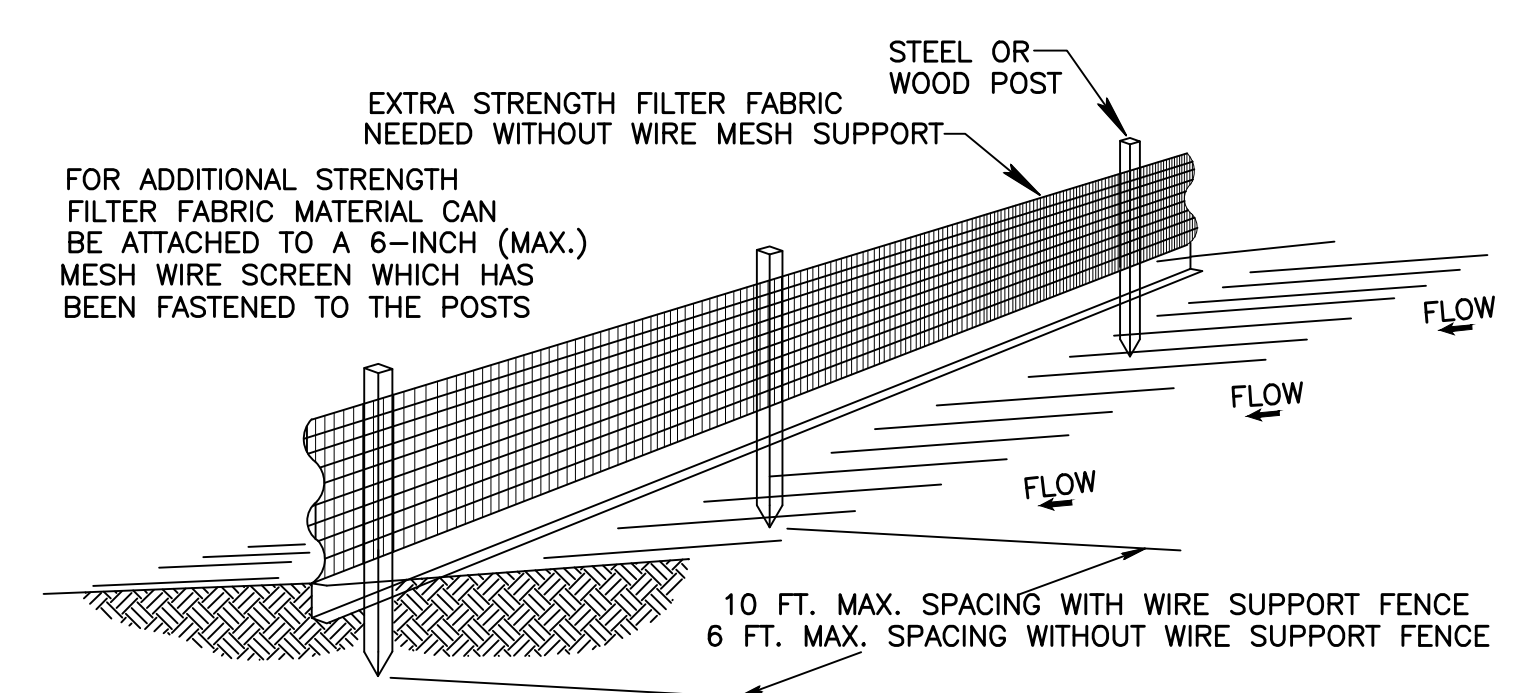
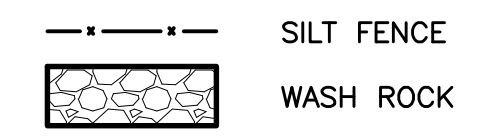


DESIGN P.B.	DRAWN D.B.	CHECKED	APPROVED	DATE
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JOB NO. 16-115	DRAWING NO. 16115S05	SHEET 5	OF 12
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LEGEND



SILT FENCE INSTALLATION DETAIL
NOT TO SCALE.

NOTES:

- 1.) THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES (90 CM).
- 2.) THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS.
- 3.) POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET (3 M) APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 12 INCHES (30 CM). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET (1.8 M).
- 4.) A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES (10 CM) WIDE AND 4 INCHES (10 CM) DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
- 5.) WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH (25 MM) LONG, TIE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES (5 CM) AND SHALL NOT EXTEND MORE THAN 36 INCHES (90 CM) ABOVE THE ORIGINAL GROUND SURFACE.
- 6.) THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES (20 CM) OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES (90 CM) ABOVE THE ORIGINAL GROUND SURFACE.
- 7.) THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.

POLLUTION PREVENTION NOTES:

- 1.) THIS PLAN SHOULD BE USED AS A GUIDE, A COMPLETE STORMWATER POLLUTION PLAN SHOULD BE DEVELOPED TO MEET OR EXCEED F.D.E.P. REQUIREMENTS.
- 2.) CONTRACTOR IS RESPONSIBLE TO ENSURE THAT NO DIRT BE TRACKED OFF-SITE OR LEAVES THE SITE BY WIND, RUNOFF, OR OTHER MEANS.
- 3.) CONTRACTOR SHALL BE RESPONSIBLE FOR ALL N.P.D.E.S. REQUIREMENTS INCLUDING FILING OF N.O.I., MONITORING REPORTS AND N.O.T.
- 4.) POLLUTION PREVENTION MEASURES SHALL CONSIST OF, BUT NOT LIMITED TO, THE FOLLOWING:
 - A. CONSTRUCT WASHROCK PAD AT ALL POINTS EGRESS FOR WASHDOWN OF TRUCK TIRES.
 - B. CONSTRUCT EROSION CONTROL FENCE AND/OR TURBIDITY SCREENS ALONG PROPERTY LINES AS NEEDED.
 - C. NO AREA SHALL BE LEFT BARREN OR SUBJECT TO EROSION DURING CONSTRUCTION. SEEDING AND MULCHING IS REQUIRED FOR ANY AREAS ANTICIPATED TO BE BARREN DURING CONSTRUCTION FOR MORE THAN 15 DAYS.
 - D. TURBIDITY BARRIERS TO BE UTILIZED AT PROJECT OUTFALL.
 - E. OTHER MEASURES AS DIRECTED BY THE ENGINEER OR CITY OF WESTLAKE.
- 5.) IT IS THE CONTRACTORS RESPONSIBILITY TO COMPLY WITH ALL LOCAL, STATE AND FEDERAL POLLUTION PREVENTION REQUIREMENTS. FOR AFFECTED AREAS GREATER THAN 1 ACRE, COMPLIANCE SHALL INCLUDE (BUT IS NOT LIMITED TO) THE FOLLOWING:
 - A. PREPARATION OF A STORMWATER POLLUTION PREVENTION PLAN (S.W.P.P.P.) IN ACCORDANCE WITH THE D.E.P. "GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES" (D.E.P. DOCUMENT NO. 62-621.300(4)(A))
 - B. SUBMITTAL OF THE NOTICE OF INTENT (N.O.I.) TO THE D.E.P.
 - C. MAINTENANCE AND INSPECTION OF THE ELEMENTS OF THE S.W.P.P.P.
 - D. MAINTENANCE OF RECORDS (INSPECTION REPORTS, N.O.I., S.W.P.P.P., ETC.)
 - E. SUBMITTAL OF THE NOTICE OF TERMINATION TO THE D.E.P. AT THE CONCLUSION OF THE PROJECT

48 HOURS BEFORE DIGGING
BROWARD • PALM BEACH • INDIAN RIVER
ST. LUCIE • MARTIN COUNTIES
CALL FOR PERMITS
1-800-432-4770
SUNSHINE STATE 1 CALL
UNDERGROUND UTILITIES
NOTIFICATION CENTER



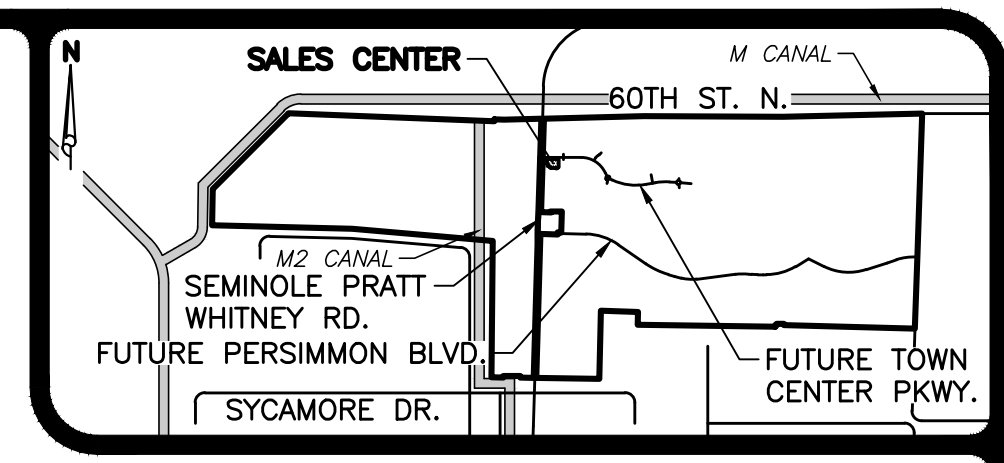
WESTLAKE SALES CENTER
SECTION 1, TOWNSHIP 43S., RANGE 40E.
CITY OF WESTLAKE, FLORIDA
POLLUTION PREVENTION PLAN

REVISIONS

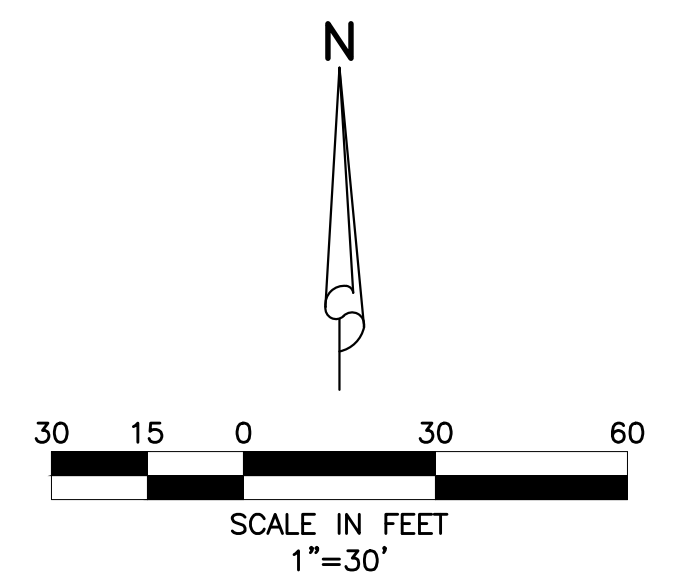
DESIGN	DRAWN	CHECKED	APPROVED	DATE
P.B.	D.B.			

JOB NO.	DRAWING NO.	SHEET	OF
16-115	16115S06	6	12

9/30/2016
PRELIMINARY



LOCATION MAP
NOT TO SCALE

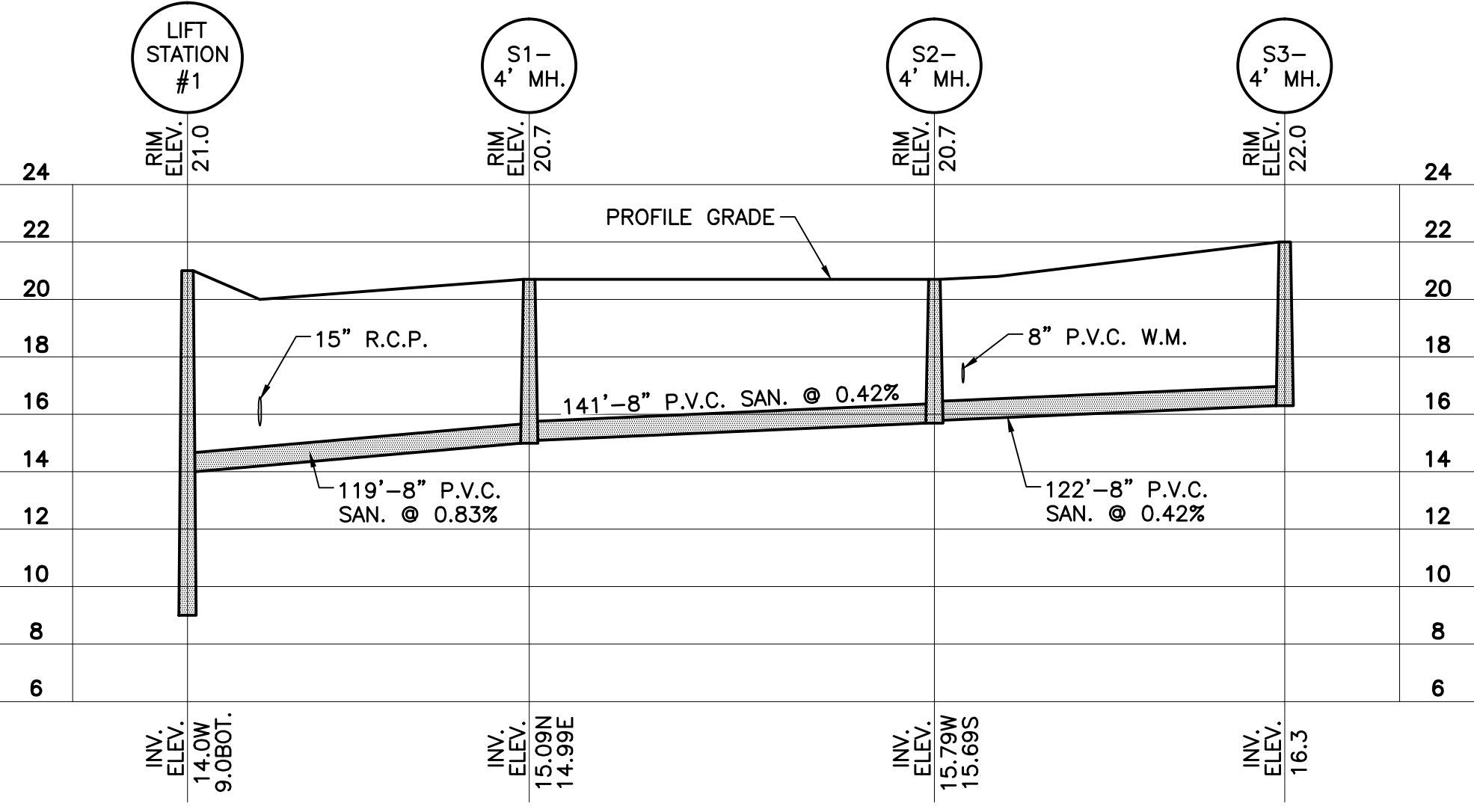
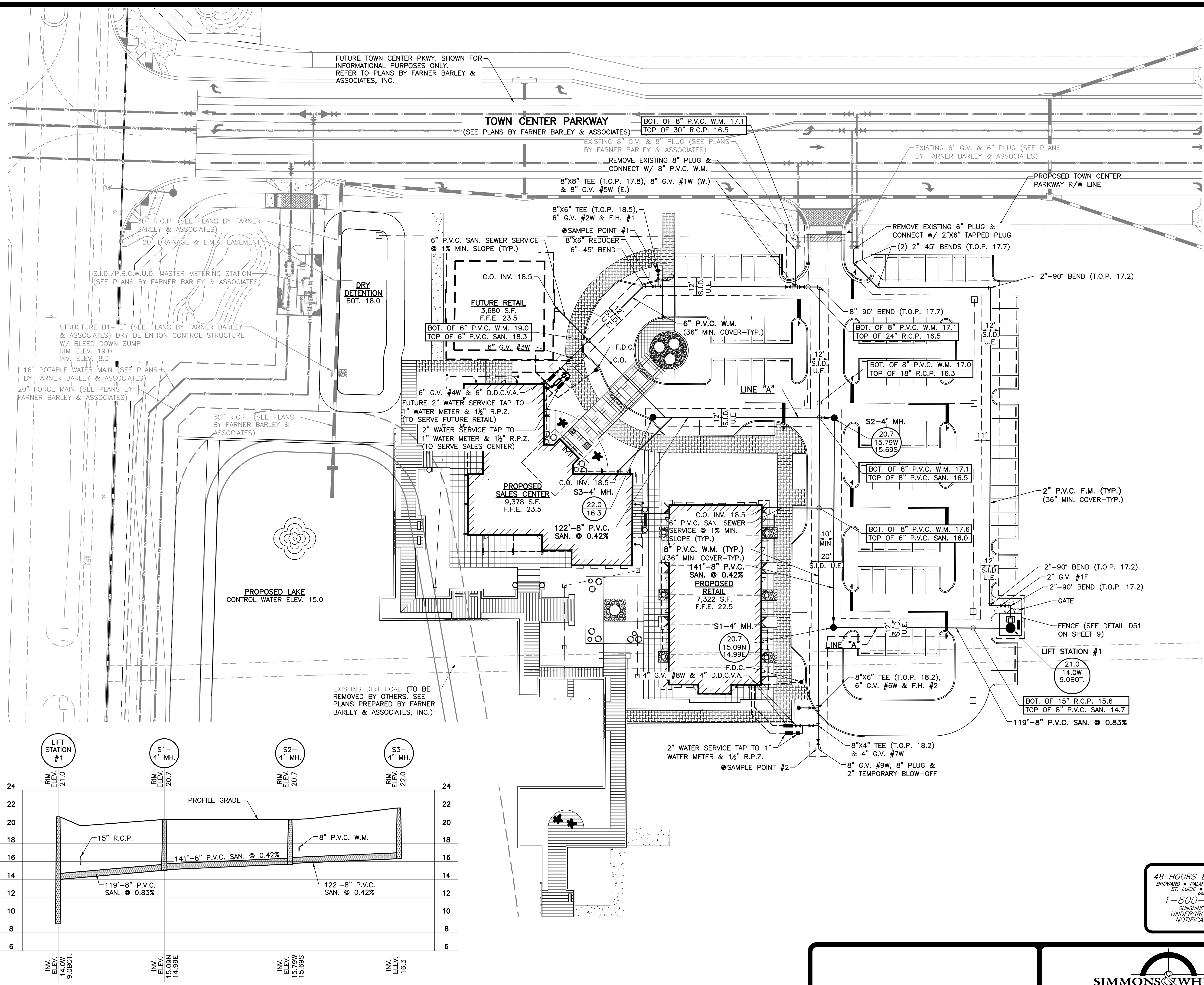


LEGEND

- S4-4' MH. MANHOLE NUMBER AND TYPE
- (21.0) MANHOLE TOP ELEVATION
- (16.3) MANHOLE INVERT ELEVATION
- SINGLE SEWER SERVICE W/ CLEAN-OUT
- SANITARY SEWER LINE, MANHOLE AND DIRECTION OF FLOW
- FIRE HYDRANT W/ GATE VALVE
- WATER SERVICE, WATER METER & R.P.Z.
- WATER MAIN & GATE VALVE
- GATE VALVE & D.D.C.V. ASSEMBLY

NOTES:

- 1.) ON-SITE SEWER LATERALS ARE TO BE PRIVATELY OWNED AND MAINTAINED.
- 2.) CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY CONFLICTS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE ALL EXISTING UTILITY LOCATES, SUPPORT, RELOCATIONS AND NOTIFICATIONS REQUIRED WITH ALL APPLICABLE UTILITY SERVICE PROVIDERS.
- 3.) CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING RELOCATION OF EXISTING UTILITIES & SUPPORT/RELOCATION OF EXISTING POWER/UTILITY POLES WITH APPLICABLE UTILITY COMPANY PRIOR TO CONSTRUCTION.
- 4.) FIRE LINE TO BUILDINGS TO BE DESIGNED, PERMITTED, CERTIFIED AND INSTALLED BY LICENSED FIRE SPRINKLER CONTRACTOR. ALL FIRE LINES SHALL BE D.I.P.
- 5.) ALL FIRE HYDRANTS SHALL BE PLACED SO THAT A MINIMUM OF 7.5' CLEARANCE IS MET ON ALL SIDES. HYDRANTS CANNOT BE PLACED MORE THAN 12' FROM E.O.P. AND NOT LESS THAN 5'.
- 6.) ALL WATER SERVICES TO BUILDINGS AFTER R.P.Z. SHALL BE INSTALLED BY BUILDING PLUMBER.
- 7.) BLUE REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED IN THE CENTER OF THE NEAREST TRAVEL LANE OPPOSITE ALL FIRE HYDRANTS.
- 8.) ALL F.D.C.'s MUST BE VISIBLE AND UNOBSTRUCTED FROM VIEW OF CORRESPONDING D.D.C.V. ASSEMBLY.
- 9.) NO VALVES SHALL BE LOCATED WITHIN CURBS OR PARKING SPACES.
- 10.) ALL ELEVATIONS SHOWN REFERENCE N.A.V.D.1988.
- 11.) SEWER CLEANOUT MINI-MANHOLES REQUIRED ON ALL CLEANOUTS WITHIN PAVEMENT AREA.



LINE "A"
SCALE: 1"=50' (HORIZ.)
SCALE: 1"=5' (VERT.)

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ST. LUCIE • MARTIN COUNTIES
CALL 904.704.1988
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WESTLAKE SALES CENTER
SECTION 1, TOWNSHIP 43S., RANGE 40E.
CITY OF WESTLAKE, FLORIDA
WATER AND WASTEWATER PLAN

DESIGN P.B.	DRAWN D.B.	CHECKED	APPROVED	DATE	JOB NO. 16-115	DRAWING NO. 16115S07	SHEET 7 OF 12
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MOPS PRIVATE SERIES

MANUFACTURED ODORLESS PUMP STATION
 ATLANTIC ENVIRONMENTAL SYSTEMS, INC.
 LAKE WORTH, FL 33461
 PH: (561) 547-8080 FAX: (561) 547-3999 © 2000

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REVISION	DATE

MOPS PUMP STATION SCHEDULE

MOPS SERIES	ITEM DESCRIPTION	QTY.	MODEL DESIGNATION
INITIAL DESIGN FLOW (G.P.M.)	100 YEAR FLOOD ELEVATION	22	20.80'
INITIAL DESIGN HEAD (T.D.H.)	25 YEAR FLOOD ELEVATION	51'	20.00'
SECONDARY DESIGN FLOW (G.P.M.)	A GRADE ELEVATION	31	21.00'
SECONDARY DESIGN HEAD (T.D.H.)	B TOP ELEVATION OF WET WELL	34'	21.00'
RATED PERFORMANCE SPEED	C BOTTOM ELEVATION OF WET WELL	3450 RPM	9.00'
RATED MOTOR HORSEPOWER	D ALL PUMPS OFF ELEVATION	2.0	11.80'
SUBMERSIBLE PUMP TYPE (P-1,P-2)	E LEAD PUMP ON ELEVATION	GRINDER	12.50'
PUMP MODEL NUMBER	F LAG PUMP ON ELEVATION	MOPS	13.00'
SERVICE ENTRANCE VOLTAGE	G HIGH ALARM ELEVATION	230	13.50'
SERVICE ENTRANCE PHASE	H INSIDE DIAMETER OF WET-WELL	3	48"
CONTROL CENTER FULL LOAD AMPS	I OUTSIDE DIAMETER OF ANTI-FLOATATION RING	21	84"
NEMA 3R PAINTED STEEL DISCONNECT SWITCH, RATED AMPS	J MINIMUM CUBIC FEET OF CONCRETE BALLAST (CU YDS)	30	000/(0)
WET WELL SCOURER SYSTEM	K INVERT PIPE DIAMETER	N/A	8"
REMOTE STATION MONITOR (TELEMETRY)	L FORCE MAIN DIAMETER	W/SA	2"
ON-SITE GENERATOR SYSTEM	M PRIMARY INVERT ELEVATION	N/A	14.00'
	N SECONDARY INVERT ELEVATION		N/A

MOPS EQUIPMENT IDENTIFICATION	QTY.	MODEL DESIGNATION
MOPS PUMP STATION	1	B22-48144-C-2.0
MOPS VALVE BOX ASSEMBLY (VBA)	1	VBA-22
MOPS ODOR/GAS SCRUBBER (OGS)	1	OGS-B
MOPS R.P.Z. ASSEMBLY	1	75
MOPS CONTROL CENTER	1	PSC-222-2.0
MOPS DISCONNECT SWITCH	1	FDS-30-3-2-PS
MOPS CONTROL CENTER MOUNTING ASSEMBLY	1	CCMA-22GA
MOPS WET WELL SCOURER SYSTEM	0	N/A
MOPS REMOTE STATION MONITOR	1	PROVIDED WITH SERVICE AGREEMENT
1st YEAR SERVICE/MAINTENANCE CONTRACT	1	LEVEL 1 WITH REMOTE MONITOR
MOPS ON-SITE GENERATOR SYSTEM	0	N/A
MOPS FIELD SERVICE WORK	1	CONTROL INSTALLATION & START-UP

MOPS PUMP STATION COMPLIANCE NOTES

THIS PUMP STATION DESIGN COMPLIES WITH THE FOLLOWING REQUIRED STANDARDS:

- STATE OF FLORIDA ENVIRONMENTAL PROTECTION STANDARDS
- FLORIDA ADMINISTRATIVE CODE (F.A.C.): 62-640.400- COLLECTION AND TRANSMISSION SYSTEMS
- NATIONAL ELECTRIC CODE (NEC) CLASS 1, DIVISION 1, GROUP D- HAZARDOUS LOCATIONS
- UNDERWRITER'S LABORATORIES (U.L.) 508A-MOTOR CONTROL CENTERS AND U.L. 698A-INTRINSICALLY SAFE CONTROL CENTERS
- RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES (1997 EDITION).

1. PUMPS ARE RATED BY FACTORY MUTUAL FOR CLASS 1, DIVISION 1, GROUP D ATMOSPHERES AS REQUIRED BY NEC.

2. THE CONTROL CENTER INCORPORATES INTRINSICALLY SAFE RELAYS AND IS LISTED TO UL 698A INTRINSICALLY SAFE FOR CLASS 1, DIVISION 1 ATMOSPHERES.

3. THE CONDUIT PROVIDED, ALONG WITH CONDUIT GAS-SEAL-OFFS, ARE RATED FOR CLASS 1, DIVISION 1 LOCATIONS.

4. THE WASTEWATER PUMPS AND THE CONTROL CENTER INCORPORATE A MECHANICAL SEAL FAILURE DETECTION AND NOTIFICATION SYSTEM.

5. THE CONTROL CENTER INCLUDES EITHER A REMOTE TELEMETRY UNIT (RTU) OR A SELF-CHARGING, BACK-UP ALARM SYSTEM TO OPERATE ON POWER FAILURE.

6. THE PUMP STATION INCORPORATES AN ODORLESS DESIGN WITH A SCRUBBER SYSTEM TO CONTROL TOXIC GASES AND ODORS FOR COMPLIANCE TO F.A.C. 62-604.400.

7. THE BOTTOM OF THE TOP RIM ELEVATION OF PUMP STATION MUST BE LOCATED AT A HIGHER ELEVATION THAN THE 25 YEAR FLOOD ELEVATION. THE LISTED 25 YEAR FLOOD ELEVATION PROVIDED BY SITE CIVIL ENGINEER.

8. THE BOTTOM ELEVATION OF THE MOPS CONTROL CENTER MUST BE LOCATED AT A HIGHER ELEVATION THAN THE 100 YEAR FLOOD ELEVATION. THE LISTED 100 YEAR FLOOD ELEVATION PROVIDED BY THE SITE CIVIL ENGINEER.

MOPS ENGINEERING NOTES

AA. THE HORSEPOWER SHOWN ON THE SCHEDULE IS A MINIMUM HORSEPOWER REQUIREMENT BASED ON THE STATION'S DESIGN CRITERIA AND THE REQUIRE TORQUE. (LOWER RATED HORSEPOWER EQUIPMENT WILL NOT BE ACCEPTABLE.)

BB. THESE ITEMS ARE NOT SUPPLIED BY A.E.S. WITH THE MOPS STATION.

CC. INVERT ELEVATIONS BASED ON INSIDE BOTTOM OF PIPE.

DD. THE MOPS CONTROL ASSEMBLY CONSISTS OF THE FOLLOWING: CONTROL CENTER DISCONNECT SWITCH, MOUNTING ASSEMBLY, ELECTRICAL CONDUITS, AND SEAL-OFF. THESE ITEMS MUST BE SUPPLIED AND INSTALLED BY THE MOPS PUMP STATION MANUFACTURER TO VALIDATE MOPS WARRANTY PROGRAM.

THE MOPS WASTEWATER PUMP STATION DESIGN AND EQUIPMENT SHOWN ON THIS DRAWING HAS BEEN REVIEWED, PERMITTED, AND CERTIFIED AS COMPLYING WITH ALL THE STATE OF FLORIDA D.E.P. AND LOCAL REQUIREMENTS. ANY SUBSTITUTION FROM THIS DESIGN MAY REQUIRE NEW PERMITS, APPLICATION FEES, AND ENGINEERING SERVICES FOR RE-CERTIFICATION AND DESIGN REVIEW.

P.E. CERTIFICATION:

Bonnie S. McLeod, P.E. License # 70797
 V.P. of Engineering
 Atlantic Environmental Systems, Inc., C A # 26398
 2244 4th Ave. North, Lake Worth, Florida 33461
 Ph: 561-547-8080 / Fax: 561-547-3999

PRIVATE PUMP STATION

WESTLAKE POD L
 SIMMONS AND WHITE, INC.
 2581 METROCENTRE BLVD. WEST, STE 3, WPB, FL 33407

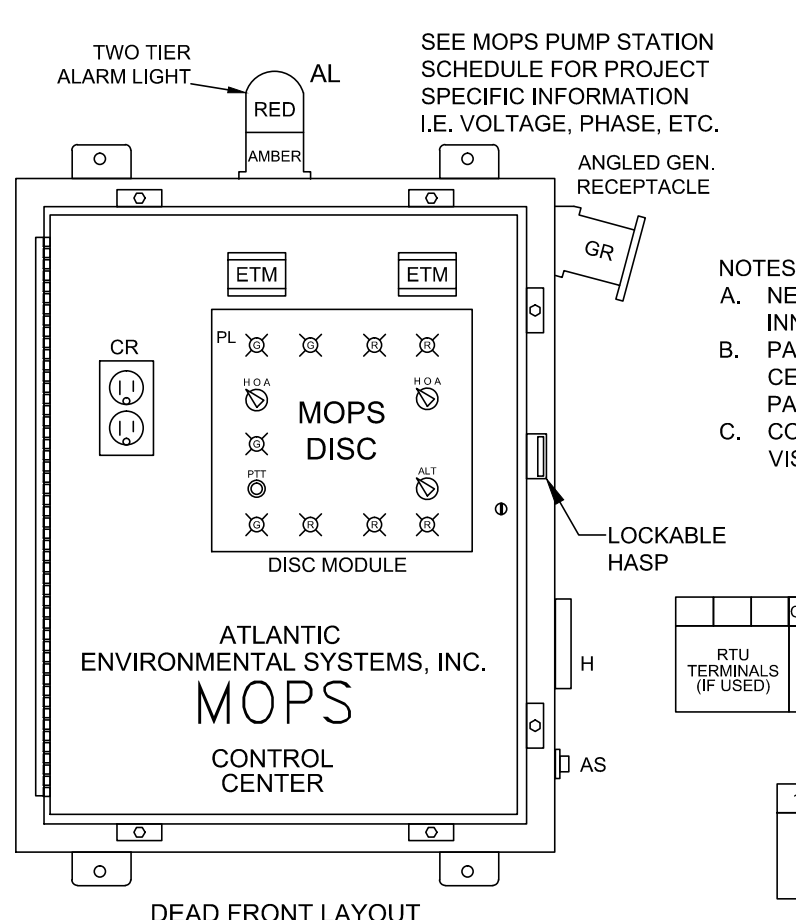
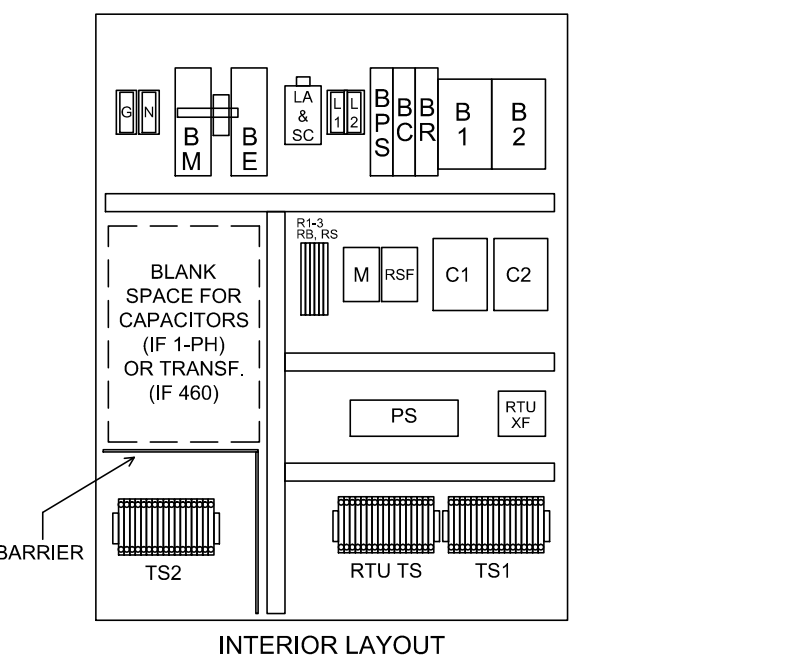
Project: 1031
 Prepared For: 08/30/16

A.E.S. Project No: 1031
 Date: 08/30/16

Page No. LS-1
PRELIMINARY

PANEL COMPONENTS

- ALT ALTERNATOR (ON DISC)
- AS ALARM SILENCE SWITCH
- B1-2 MOTOR BREAKERS
- BC CONTROL BREAKER
- BE EMERGENCY BREAKER
- BM MAIN BREAKER
- BPS POWER SUPPLY BREAKER
- BR RECEPTACLE BREAKER
- C1-2 CONTACTOR, MOTOR START
- CR CONVENIENCE RECEPTACLE
- DISC DUPLEX INTRINSICALLY SAFE CONTROLLER
- ETM ELAPSED TIME METER
- GR GENERATOR RECEPTACLE
- H HORN
- HDA HAND-OFF-AUTO SWITCH (ON DISC)
- LA LIGHTNING ARRESTOR
- M MONITOR: 1PH-VOLT, 3PH-PHASE
- PL PILOT LIGHT (ON DISC)
- PS POWER SUPPLY
- SC SURGE CAPACITOR
- T1 TERMINAL STRIP FOR PUMPS
- T2 TERMINAL STRIP FOR FLOATS
- R1-3 RELAYS
- RB BATTERY RELAY
- RS SILENCE RELAY
- RSF SEAL FAIL RELAY
- RTUXF RTU TRANSFORMER
- RTU TS RTU TERMINAL STRIP



NOTES:

A. NEMA 4X STAINLESS STEEL ENCLOSURE ALUMINUM INNER (DEAD FRONT) DOOR 30"W x 24"H x 8"D

B. PANEL LABELED FOR U.L. 508A "MOTOR CONTROL CENTERS" AND U.L. 698A "HAZARDOUS LOCATION PANELS" (INTRINSICALLY SAFE)

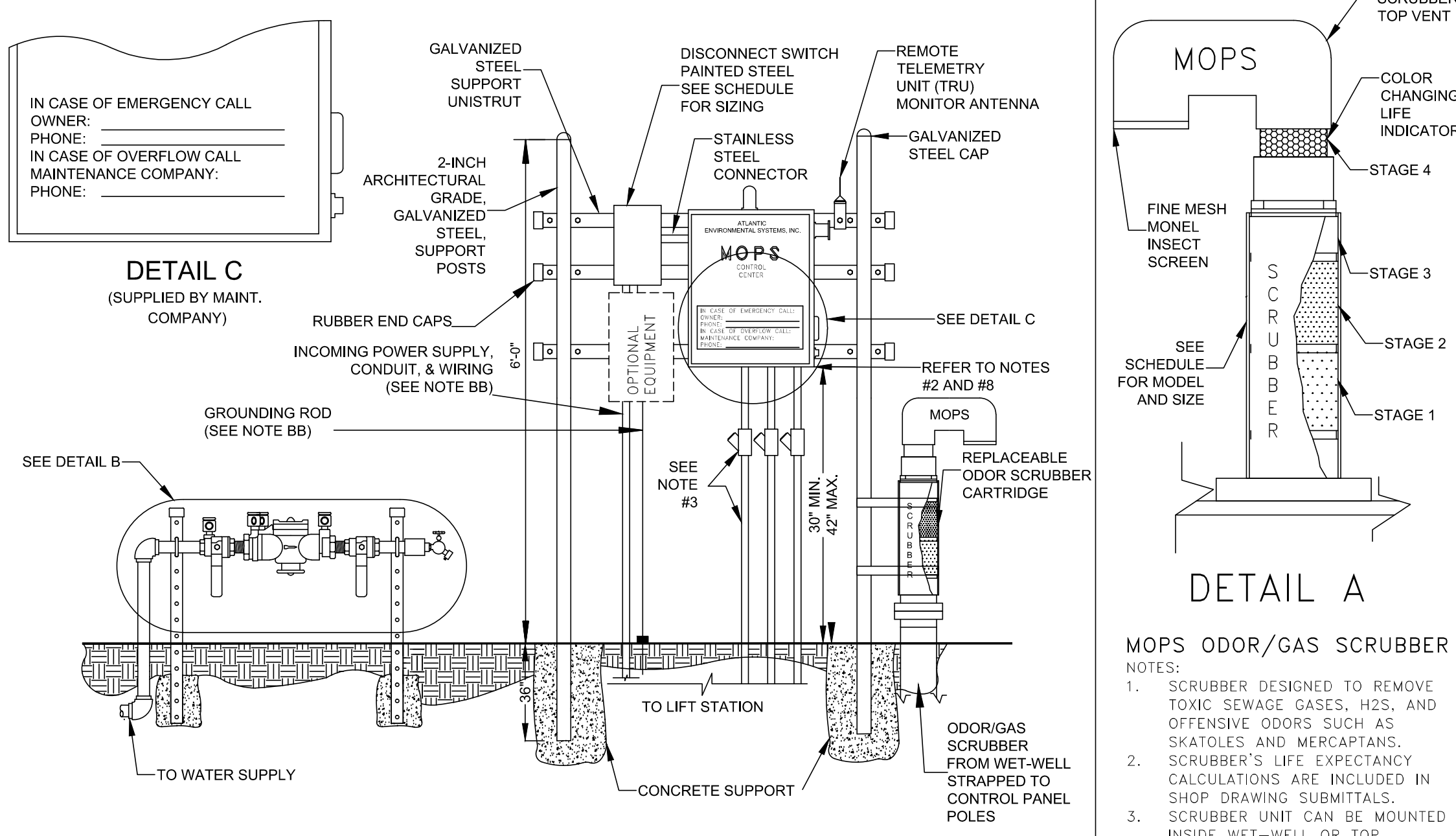
C. COMPLETE BACK-UP, SELF-CHARGING BATTERY, VISUAL/AUDIO ALARM SYSTEM, PER RSWF-45

T1 TERMINAL SCHEDULE

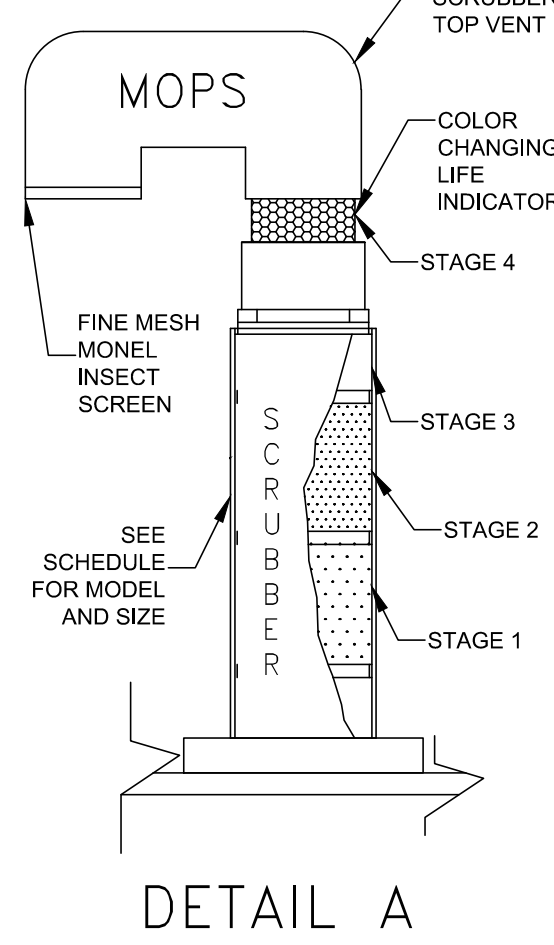
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RTU	PUMP	MOTOR	MT1	MT2	MT3	MT4	MT5	MT6	MT7	MT8	MT9	MT10	MT11	MT12	MT13	MT14	MT15	MT16	MT17	MT18	MT19	MT20	MT21	MT22	MT23	MT24	MT25	MT26	MT27	MT28	MT29	MT30

T2 TERMINAL SCHEDULE

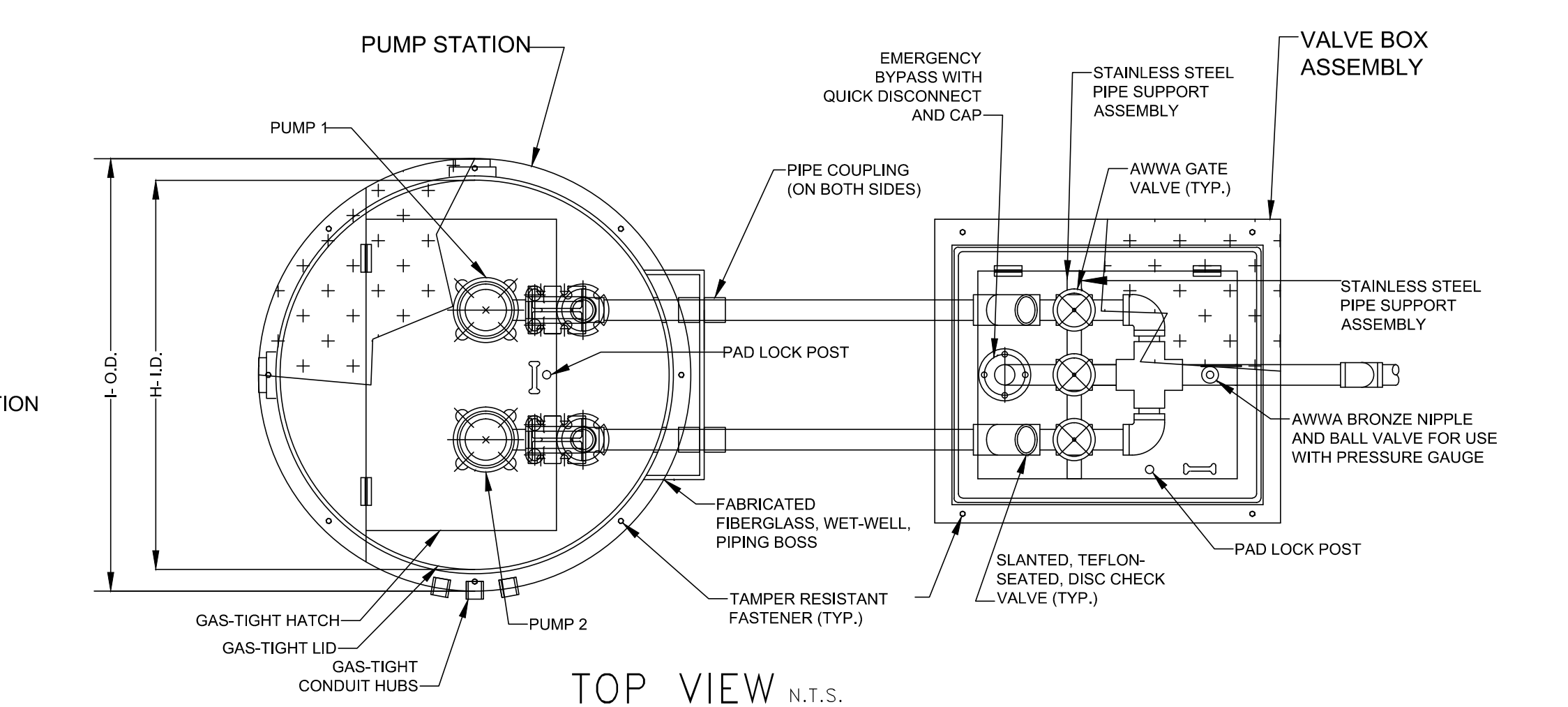
F21	F22	F23	F24
ALL OFF	CALL	CALL	HIGH ALARM



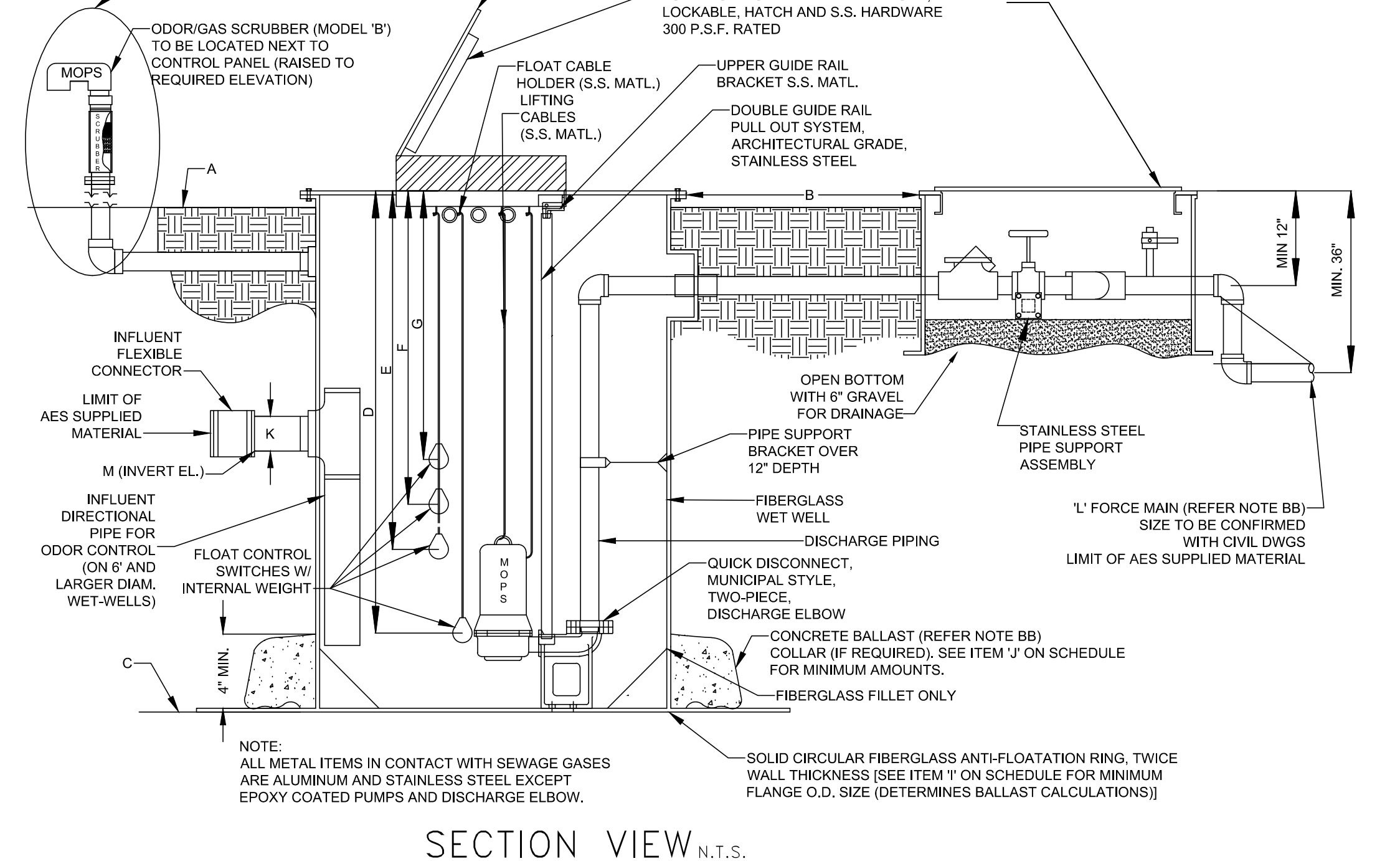
CONTROL CENTER ASSEMBLY AND INSTALLATION N.T.S.



MOPS ODOR/GAS SCRUBBER N.T.S.



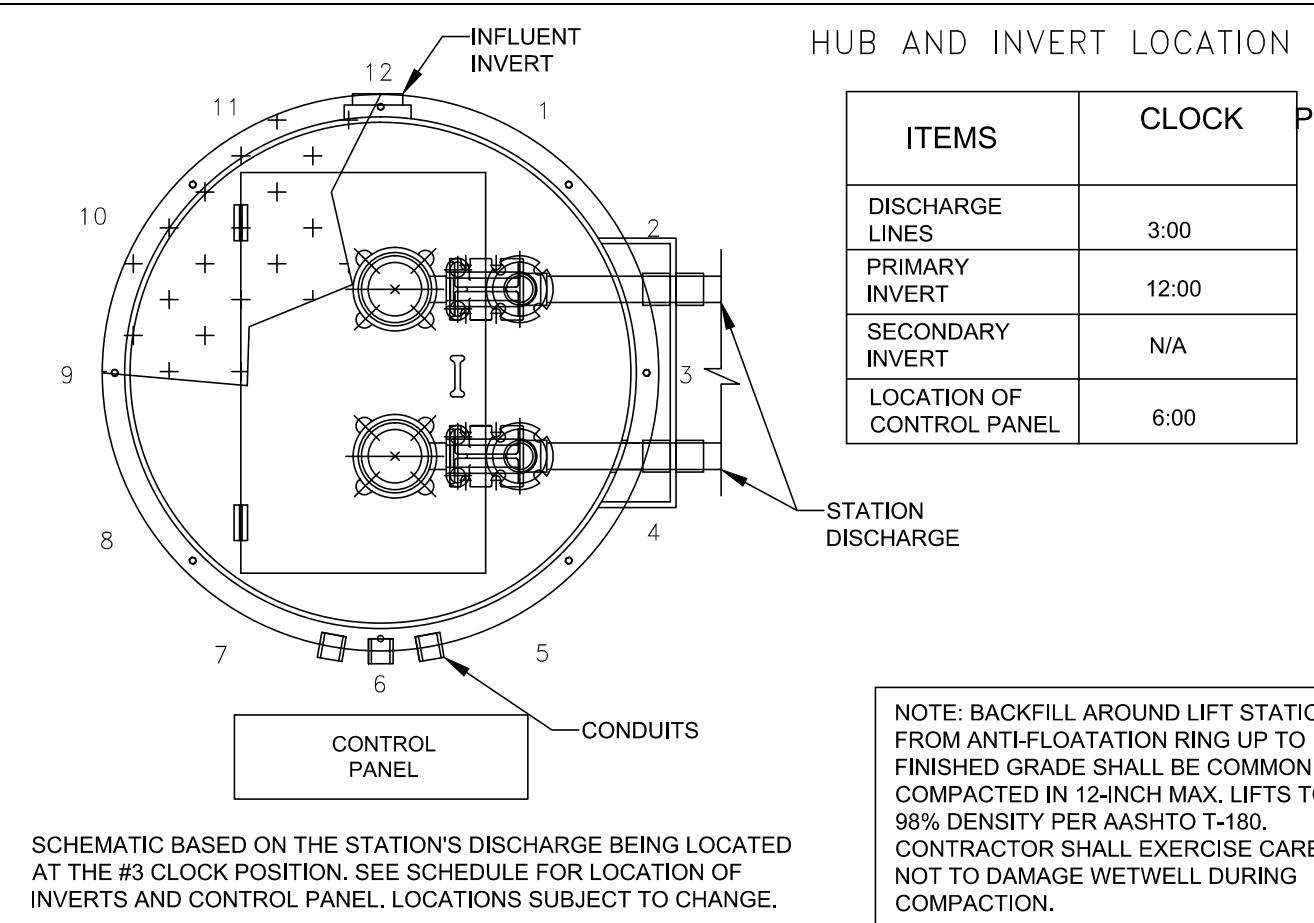
TOP VIEW N.T.S.



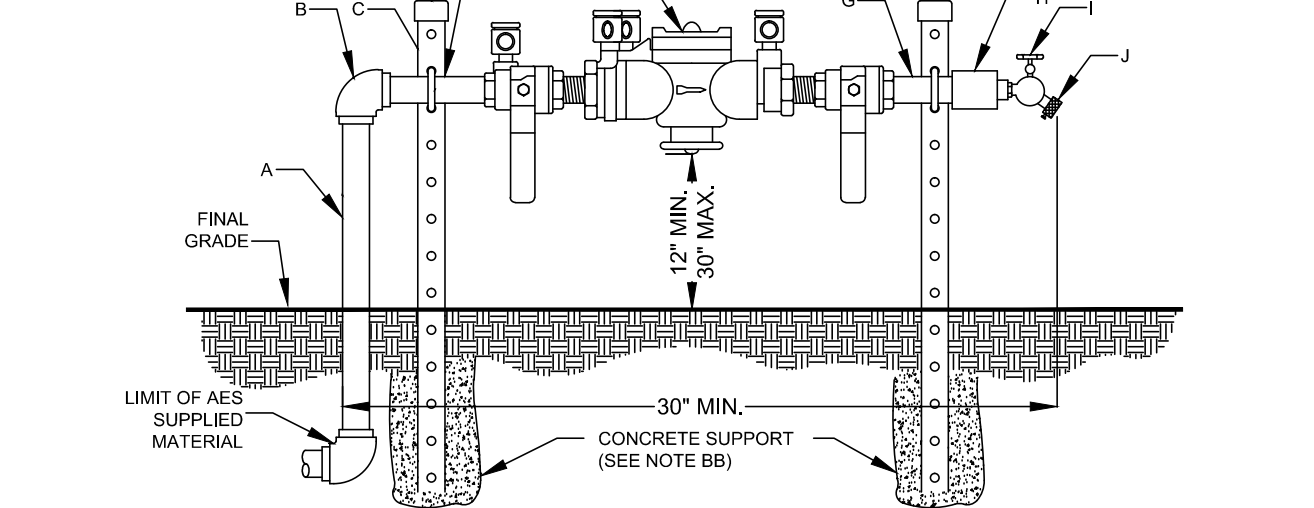
SECTION VIEW N.T.S.

MOPS CONTROL CENTER

CONTROL CENTER DESIGNED AND MANUFACTURED TO MEET ALL D.E.P. REQUIREMENTS. SEE SCHEDULE FOR ELECTRICAL SERVICE REQUIREMENTS.



SCHEMATIC BASED ON THE STATION'S DISCHARGE BEING LOCATED AT THE #3 CLOCK POSITION. SEE SCHEDULE FOR LOCATION OF INVERTS AND CONTROL PANEL. LOCATIONS SUBJECT TO CHANGE.



MATERIALS

ITEM	QTY	DESCRIPTION
A	1	3/4" x 24" STAINLESS STEEL NIPPLE
B	2	3/4" x 1" STAINLESS STEEL 90° ELBOW
C	2	1" x 1" x 40" SS SUPPORT BRACKET
D	2	SUPPORT BRACKET CAPS P/N 1031
E	2	3/4" STAINLESS STEEL PIPE BOLTS

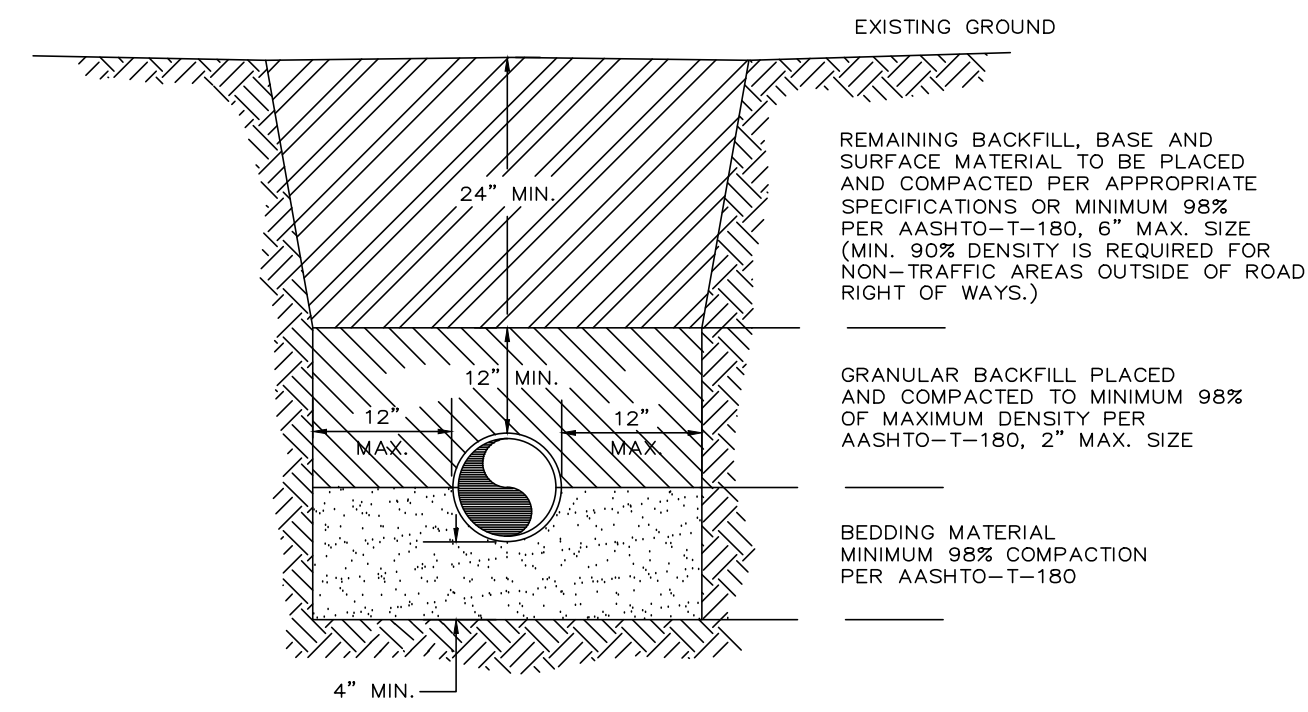
DETAIL B
 R.P.Z. BACKFLOW PREVENTER ASSEMBLY DETAIL
 U.S.C. AND A.S.S.E. APPROVED N.T.S.



WESTLAKE SALES CENTER
 SECTION 1, TOWNSHIP 43S., RANGE 40E.
 CITY OF WESTLAKE, FLORIDA
 LIFT STATION DETAILS

DESIGN	DRAWN	CHECKED	APPROVED	DATE
P.B.	D.B.			

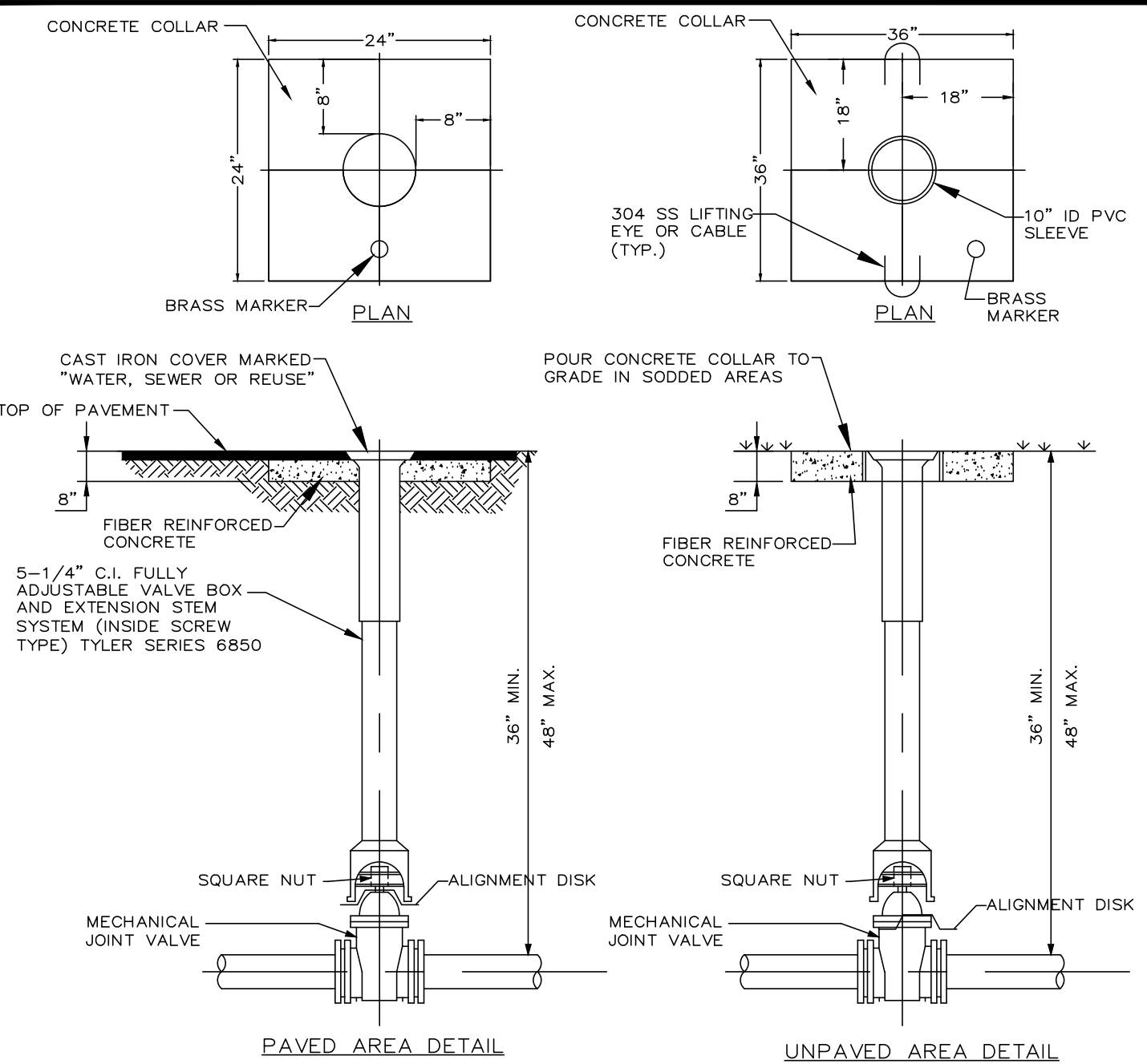
JOB NO.	DRAWING NO.	SHEET	OF
16-115	16115S08	8	12



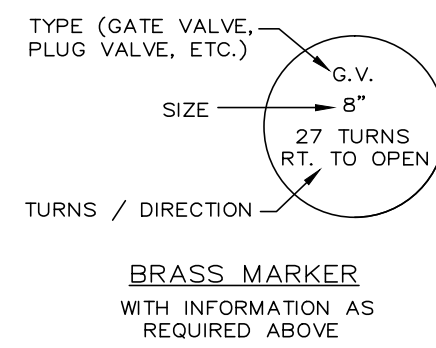
- NOTES:**
1. BEDDING MATERIAL SHALL CONSIST OF IN-SITU GRANULAR MATERIAL OR WASHED AND GRADED LIMEROCK 3/8"-7/8" SIZING. UNSUITABLE IN-SITU MATERIALS SUCH AS MUCK, DEBRIS AND LARGER ROCKS SHALL BE REMOVED.
 2. THE PIPE SHALL BE FULLY SUPPORTED FOR ITS ENTIRE LENGTH WITH APPROPRIATE COMPACTION UNDER THE PIPE HAUNCHES.
 3. THE PIPE SHALL BE PLACED IN A DRY TRENCH.
 4. BACKFILL SHALL BE FREE OF UNSUITABLE MATERIAL SUCH AS LARGER ROCK, MUCK AND DEBRIS.
 5. DENSITY TEST ARE REQUIRED IN ONE (1) FOOT LIFTS ABOVE PIPE AT INTERVALS OF 400 FT. MAXIMUM, OR AS DIRECTED BY S.I.D.
 6. THE APPLICANT / CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH ALL APPLICABLE TRENCH-SAFETY LAWS AND REGULATIONS.
 7. THE AFFECTED AREA SHALL BE RESTORED TO EQUAL OR BETTER CONDITION OR AS SPECIFIED IN PERMIT / CONTRACT DOCUMENTS.
 8. MINIMUM COMPACTION CRITERIA SHALL BE NOTED HEREIN OR PER THE PIPE MANUFACTURERS RECOMMENDATIONS, WHICHEVER IS MORE STRINGENT.

S.I.D. CONSTRUCTION STANDARDS & DETAILS

REVISION	TYPICAL TRENCH DETAIL	PAGE No.
JUNE 2006		D1

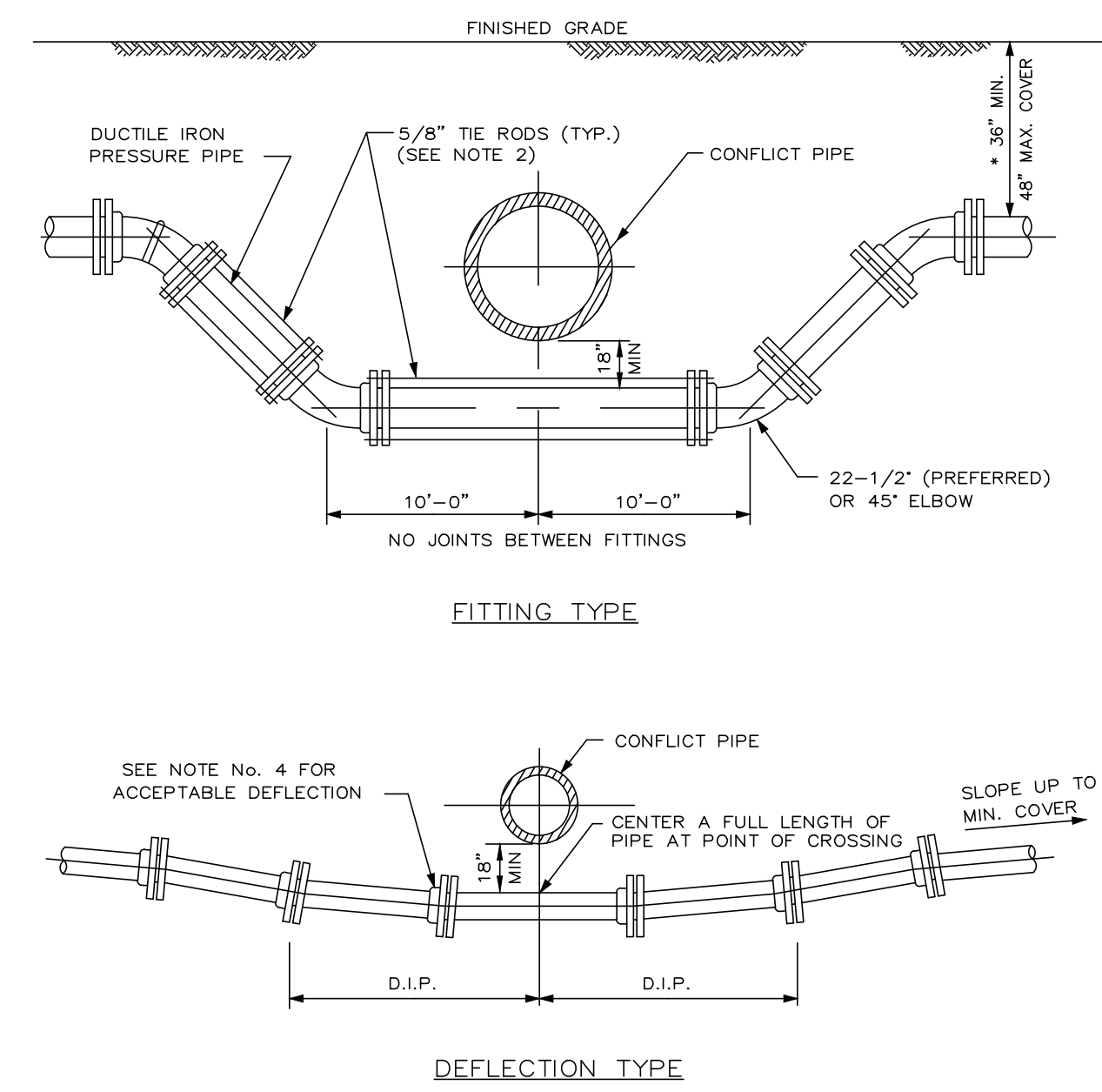


- NOTES:**
1. AS NOTED, ALL VALVE BOXES AND STEMS SHALL BE FULLY ADJUSTABLE. THE VALVE BOX SHALL BE AS MANUFACTURED BY TYLER.
 2. NO VALVES SHALL BE DESIGNED OR CONSTRUCTED WITHIN CURBS, SIDEWALKS OR DRIVEWAYS.
 3. DISTRICT RESERVES THE RIGHT TO REQUIRE THERMOPLASTIC LOCKING VALVE BOX COVERS ON A CASE-BY-CASE BASIS.



S.I.D. CONSTRUCTION STANDARDS & DETAILS

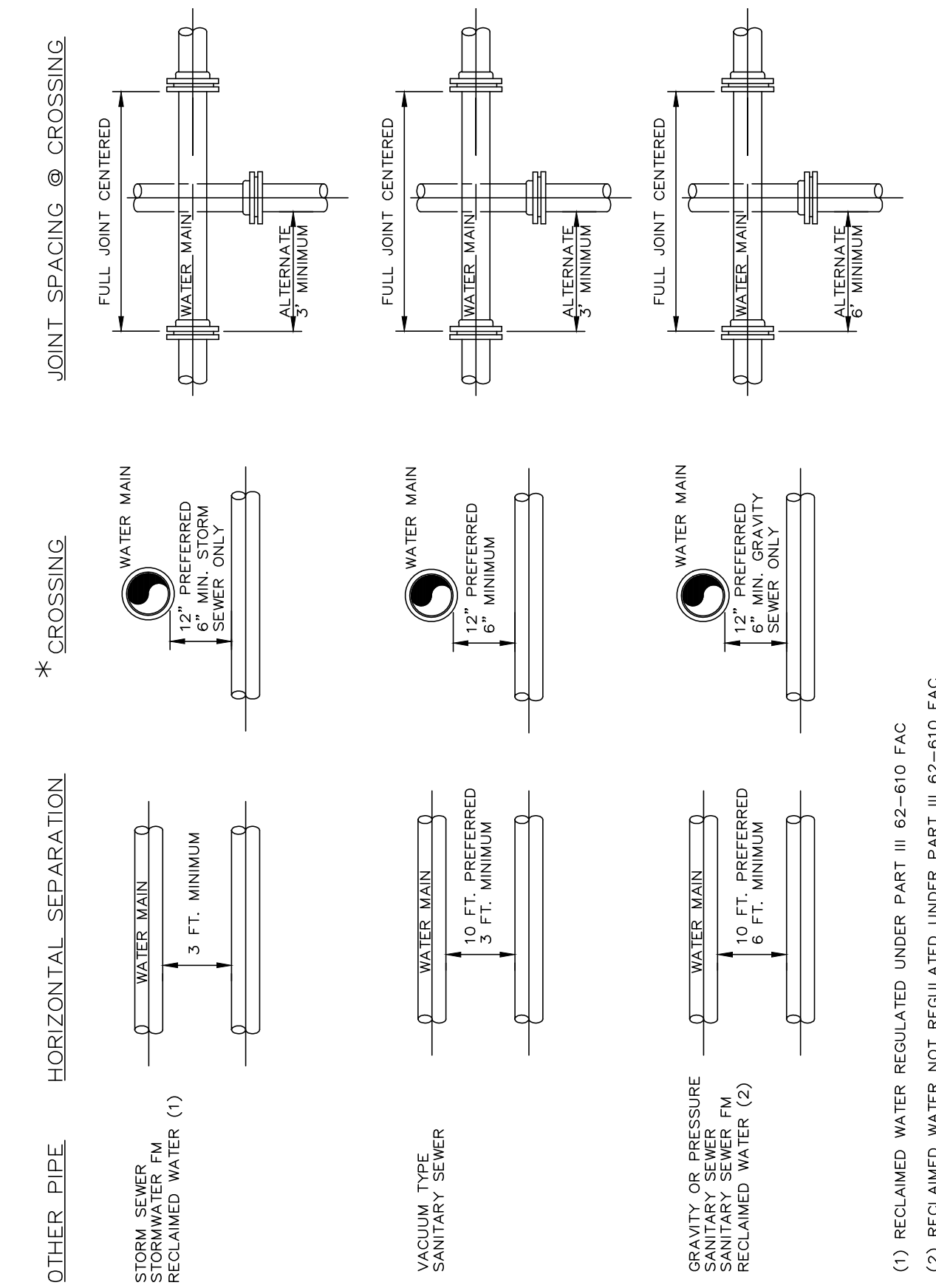
REVISION	TYPICAL VALVE SETTING	PAGE No.
JUNE 2006		D2



- NOTES:**
1. THESE METHODS ARE TO BE USED WHEN INSUFFICIENT COVER EXISTS TO ALLOW PRESSURE PIPE TO CROSS ABOVE CONFLICT PIPE WITH 6" VERTICAL SEPARATION AND MAINTAIN 30" COVER TO FINISHED GRADE.
 2. FITTINGS SHALL BE RESTRAINED WITH MECHANICAL RESTRAINTS OR TIE RODS.
 3. THE DEFLECTION TYPE CROSSING IS PREFERRED.
 4. DO NOT EXCEED 75% OF MANUFACTURERS RECOMMENDED MAXIMUM JOINT DEFLECTION.
 5. MECHANICALLY RESTRAIN ALL FITTINGS, AS PER MANUFACTURERS RECOMMENDATION.
 - 36" MIN IN STATE ROAD R/W & UNDER ASPHALT

S.I.D. CONSTRUCTION STANDARDS & DETAILS

REVISION	PRESSURE PIPE CONFLICT DETAIL	PAGE No.
JUNE 2006		D3



- (1) RECLAIMED WATER REGULATED UNDER PART III 62-610 FAC
 (2) RECLAIMED WATER NOT REGULATED UNDER PART III 62-610 FAC
 * WATER MAIN SHOULD CROSS ABOVE OTHER PIPE UNLESS WATER MAIN MUST BE BELOW OTHER PIPE THE MINIMUM VERTICAL SEPARATION IS 12"

S.I.D. CONSTRUCTION STANDARDS & DETAILS

REVISION	PBCHD WATER MAIN CROSSING / SEPARATION DETAIL	PAGE No.
JUNE 2006		D4

MINIMUM LENGTH OF PIPE TO BE RESTRAINED

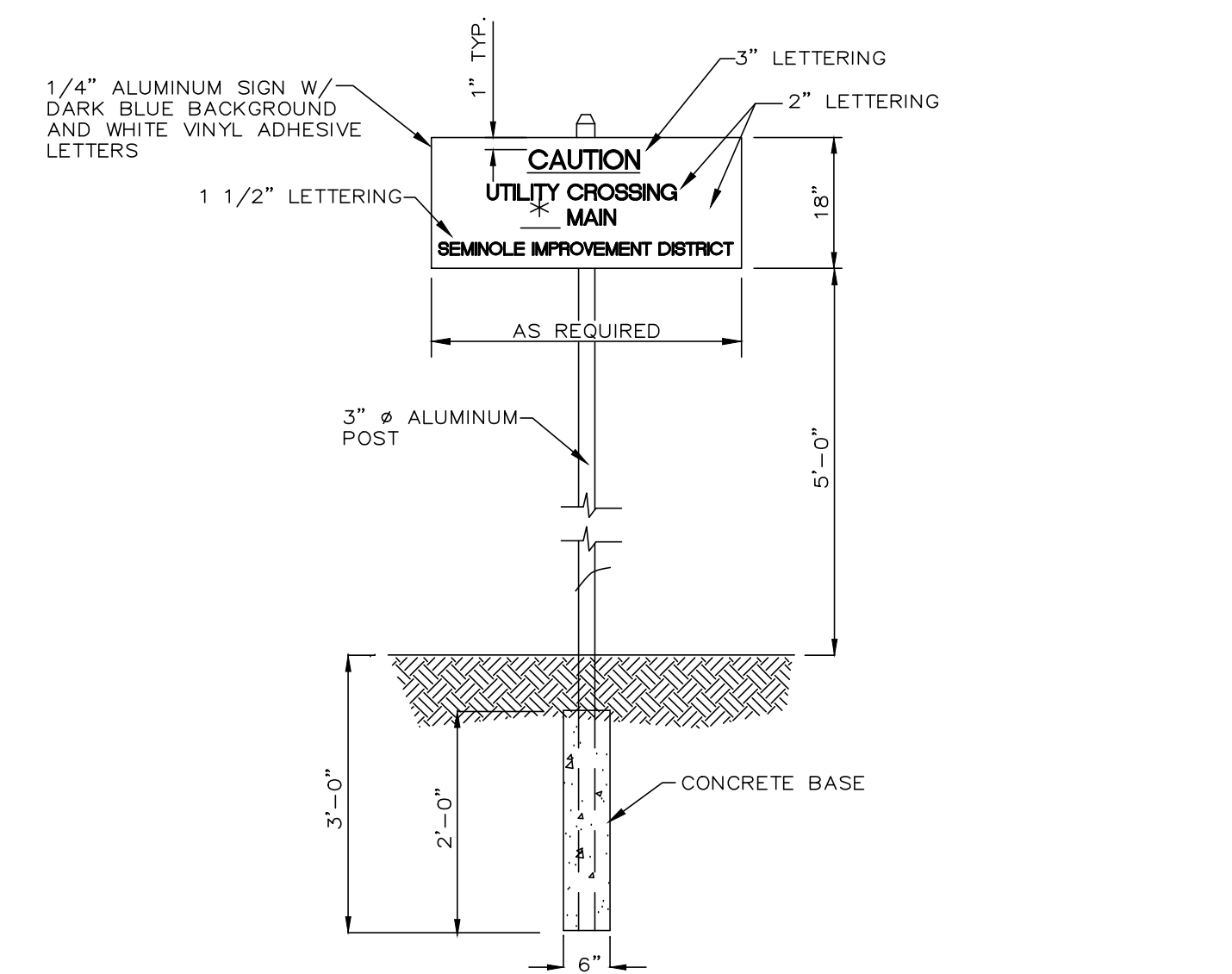
PIPE DIAMETER (INCHES)	90° ELBOWS, ALL VERTICAL ELBOWS DOWN, TEE, CROSSES, REDUCERS	45° ELBOWS HORIZONTAL OR VERTICAL UP	22-1/2" ELBOWS HORIZONTAL OR VERTICAL UP	11-1/4" ELBOWS HORIZONTAL OR VERTICAL UP	DEAD ENDS
4	2L	1L	1L	1L	3L
6	3L	2L	1L	1L	4L
8	4L	2L	1L	1L	5L
10	5L	2L	1L	1L	5L
12	5L	2L	1L	1L	6L
16	6L	3L	2L	1L	8L

NOTE: L = ONE PIPE LENGTH (18 FEET)

- NOTES:**
1. THE ABOVE TABLE SHALL SERVE AS A GENERAL GUIDE ONLY TO ESTABLISH MINIMUMS. IT IS THE APPLICANT'S RESPONSIBILITY TO CORRECTLY DESIGN AND SPECIFY THE REQUIRED LENGTHS OF RESTRAINED PIPE CONSIDERING DIPRA CRITERIA USING THE EXISTING SOIL COMPOSITION, PIPE LAYING CONDITIONS, TEST PRESSURE AND OTHER RELEVANT FACTORS. THE MINIMUM TEST PRESSURE SHALL BE 150 PSF WITH A 2.5 SAFETY FACTOR
 2. THE ENGINEER OF RECORD SHALL VERIFY ALL RESTRAINED LENGTHS AND JUSTIFY ANY CHANGES DUE TO DIFFERENT INSTALLATION CONDITIONS.

S.I.D. CONSTRUCTION STANDARDS & DETAILS

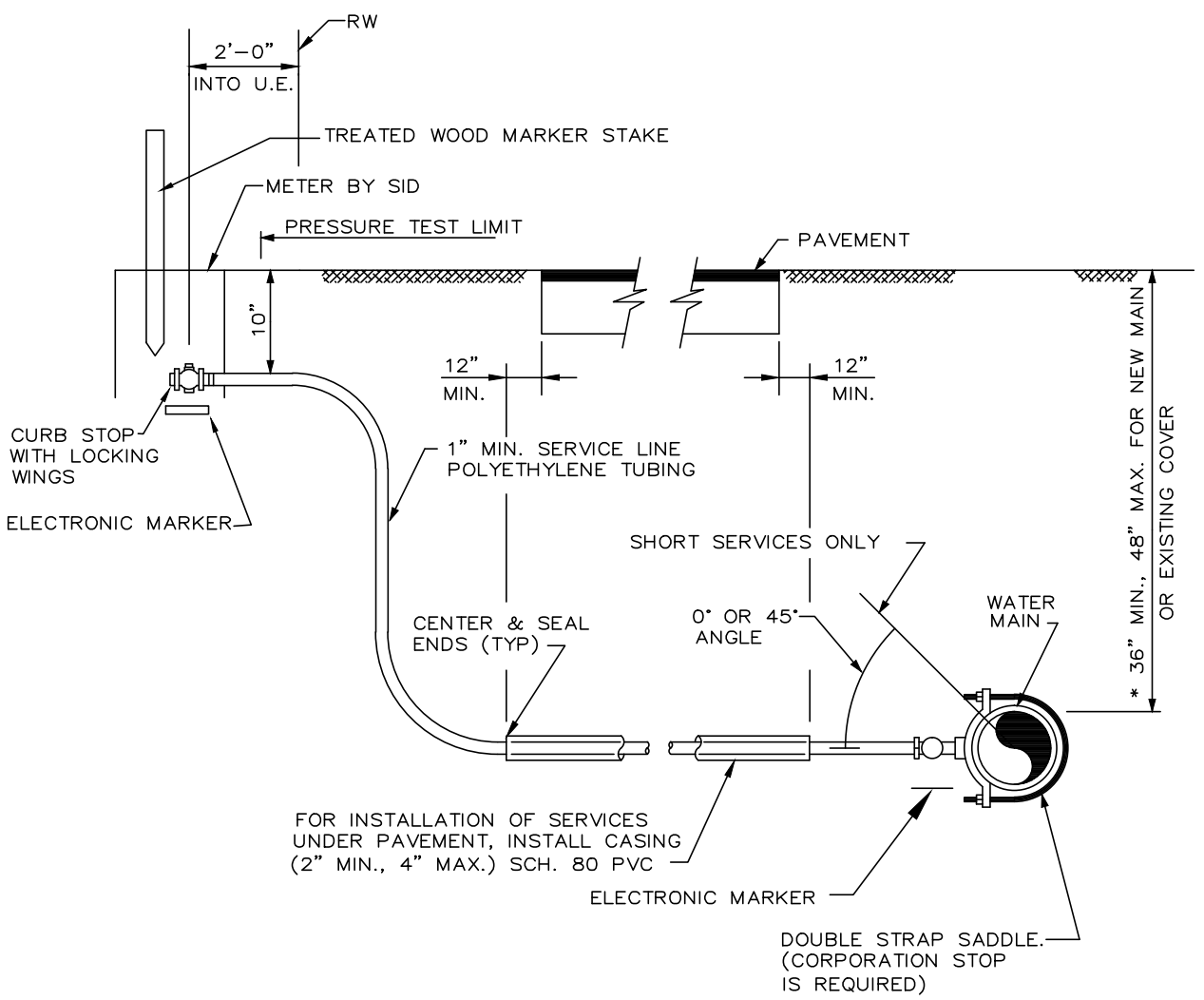
REVISION	MECHANICAL JOINT RESTRAINT REQUIREMENTS	PAGE No.
JUNE 2006		D5



- NOTES:**
1. 3/16 SS ANCHORING HARDWARE REQUIRED
 2. PROVIDE SIGN ON EACH SIDE OF ALL AERIAL OR SUBAQUEOUS CROSSINGS OR AS REQUIRED BY DISTRICT
 - * WATER, FORCE OR RECLAIMED, AS APPROPRIATE

S.I.D. CONSTRUCTION STANDARDS & DETAILS

REVISION	CAUTION SIGN DETAIL	PAGE No.
JUNE 2006		D14



- NOTES:**
1. SUCCESSIVE TAPS INTO THE WATER MAIN SHALL BE SPACED A MINIMUM OF 18" APART. TAPS SPACED BETWEEN 18" TO 48" SHALL BE OFFSET TO EACH SIDE OF THE MAIN, OR OFFSET 45°.
 2. METER BOX SHALL BE SET TO CONFORM TO FINISHED GRADE ADJACENT TO PROPERTY LINE. METER BOX SHALL NOT BE PLACED IN SIDEWALK OR DRIVEWAY AREAS. SERVICE LINES SHALL NOT BE PLACED UNDER DRIVEWAYS.
 3. TUBING SHALL BE POLYETHYLENE, DR 9
 4. ALL 5/8" & 1" METERS REQUIRE A 1" LOCKING METER VALVE RESPECTIVELY
 5. MAXIMUM SERVICE LENGTH IS 100' TO METER.
 6. METER SHALL BE TOUCH READ. ALL COMPONENT PARTS FOR CONVERSION TO RADIO READ SHALL ALSO BE SUPPLIED AND INSTALLED, WHERE APPLICABLE
 7. ELECTRONIC MARKERS SHALL BE SCOTCHMARK ELECTRONIC MARKER No. 1253 (BLUE)
 8. METER BOX SHALL BE BROOKS PRODUCTS. 38-H UP TO 1 1/2" METER AND 66-H UP TO 3" METER. METER BOXES SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR.
 - * 36" MIN. IN STATE ROAD R/W & UNDER ASPHALT

S.I.D. CONSTRUCTION STANDARDS & DETAILS

REVISION	TYPICAL SERVICE CONNECTION (UNDERGROUND) FOR 5/8", 1" OR 2" METER	PAGE No.
JUNE 2006		D21

9/30/2016
PRELIMINARY

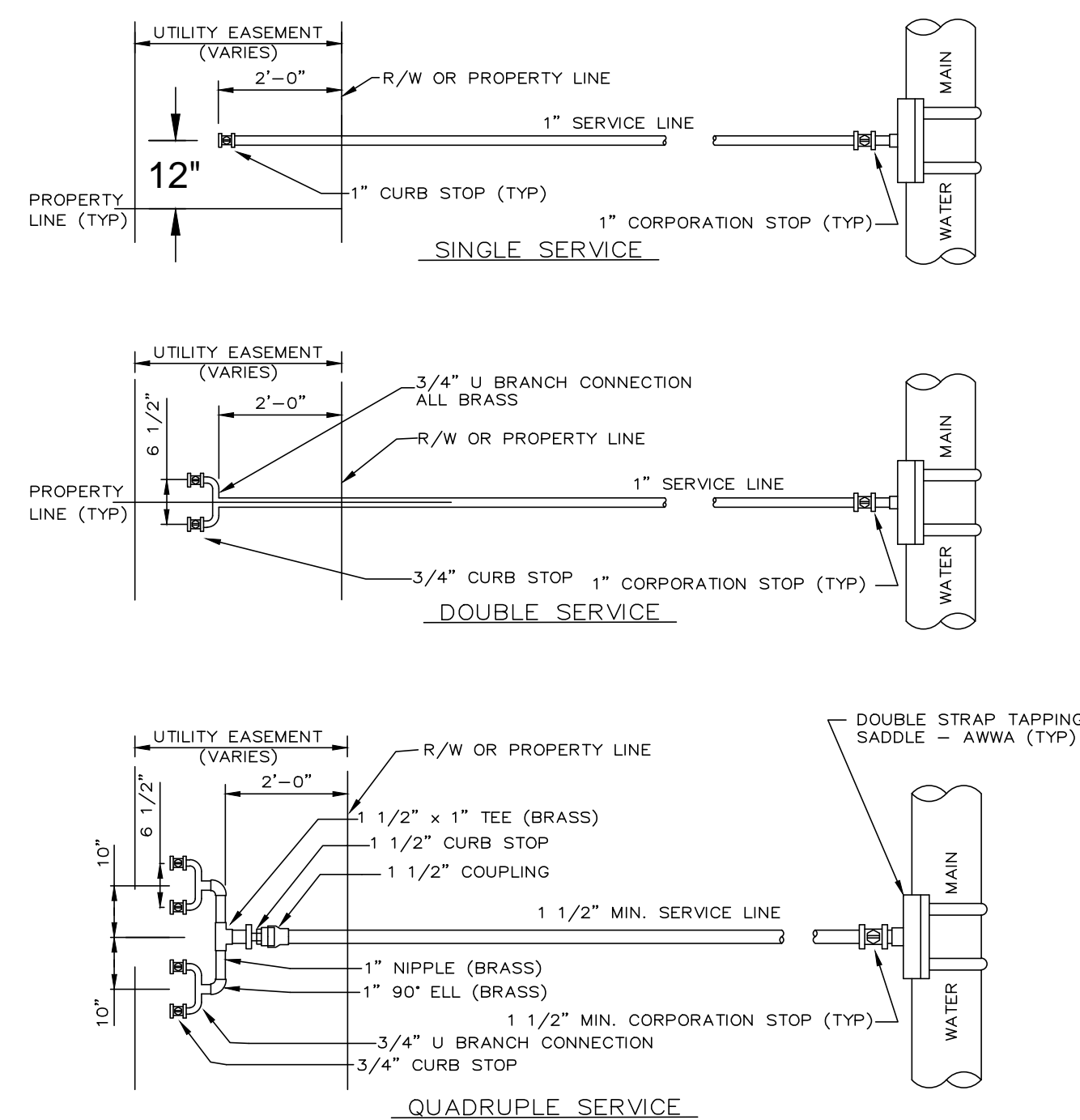


WESTLAKE SALES CENTER
 SECTION 1, TOWNSHIP 43S., RANGE 40E.
 CITY OF WESTLAKE, FLORIDA
WATER AND WASTEWATER DETAILS

REVISIONS

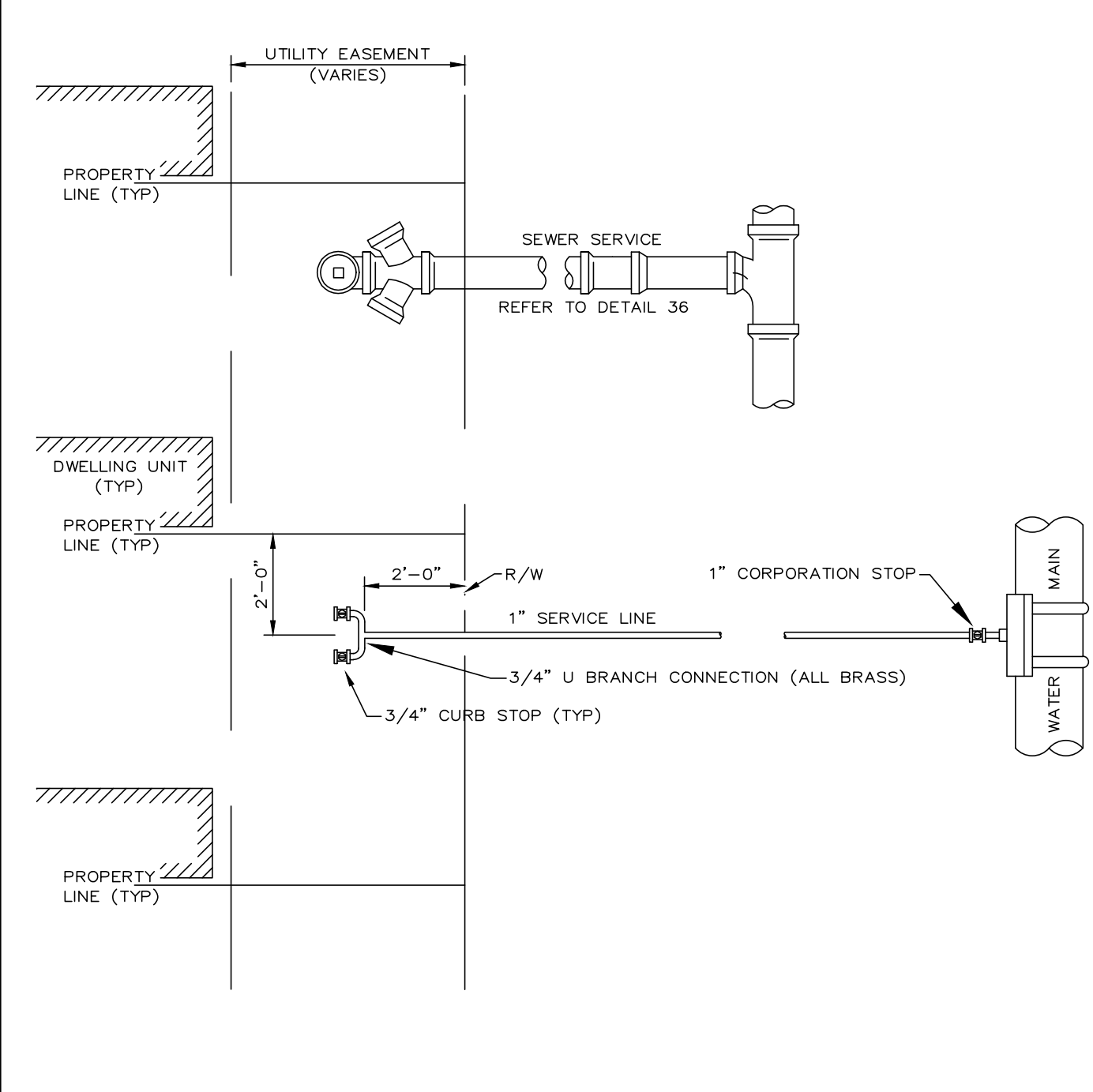
DESIGN	DRAWN	CHECKED	APPROVED	DATE
P.B.	D.B.			

JOB NO.	DRAWING NO.	SHEET	OF
16-115	16115S09	9	12



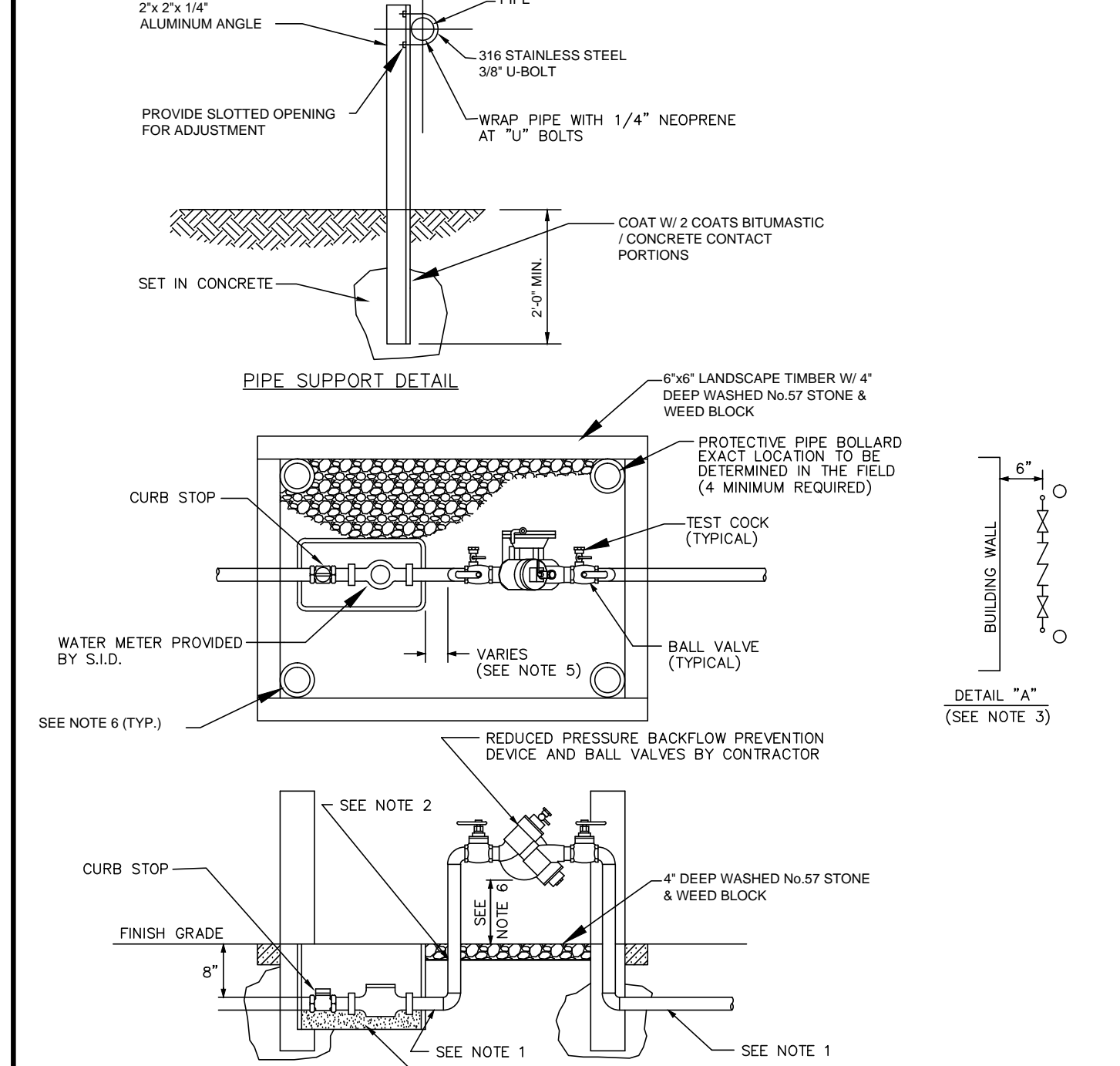
- NOTES:**
- SERVICE LINE MATERIAL SHALL BE POLYETHYLENE TUBING, TWO (2) INCHES P.V.C. SCHEDULE 80.
 - MULTIPLE SERVICE/METER INSTALLATIONS OF MORE THAN 4 METERS PER SERVICE AND SERVICE LINES LARGER THAN 2" IN DIAMETER SHALL BE APPROVED ON AN INDIVIDUAL BASIS, SUBJECT TO APPROVAL OF THE DISTRICT.
 - NO FITTINGS SHALL BE INSTALLED BETWEEN CORP. STOP & "U" BRANCH FOR MULTIMETER INSTALLATIONS.

S.I.D. CONSTRUCTION STANDARDS & DETAILS		
REVISION	TYPICAL SINGLE SERVICE AND MULTIPLE SERVICES (TWO OR MORE)	PAGE No.
JUNE 2006		D22



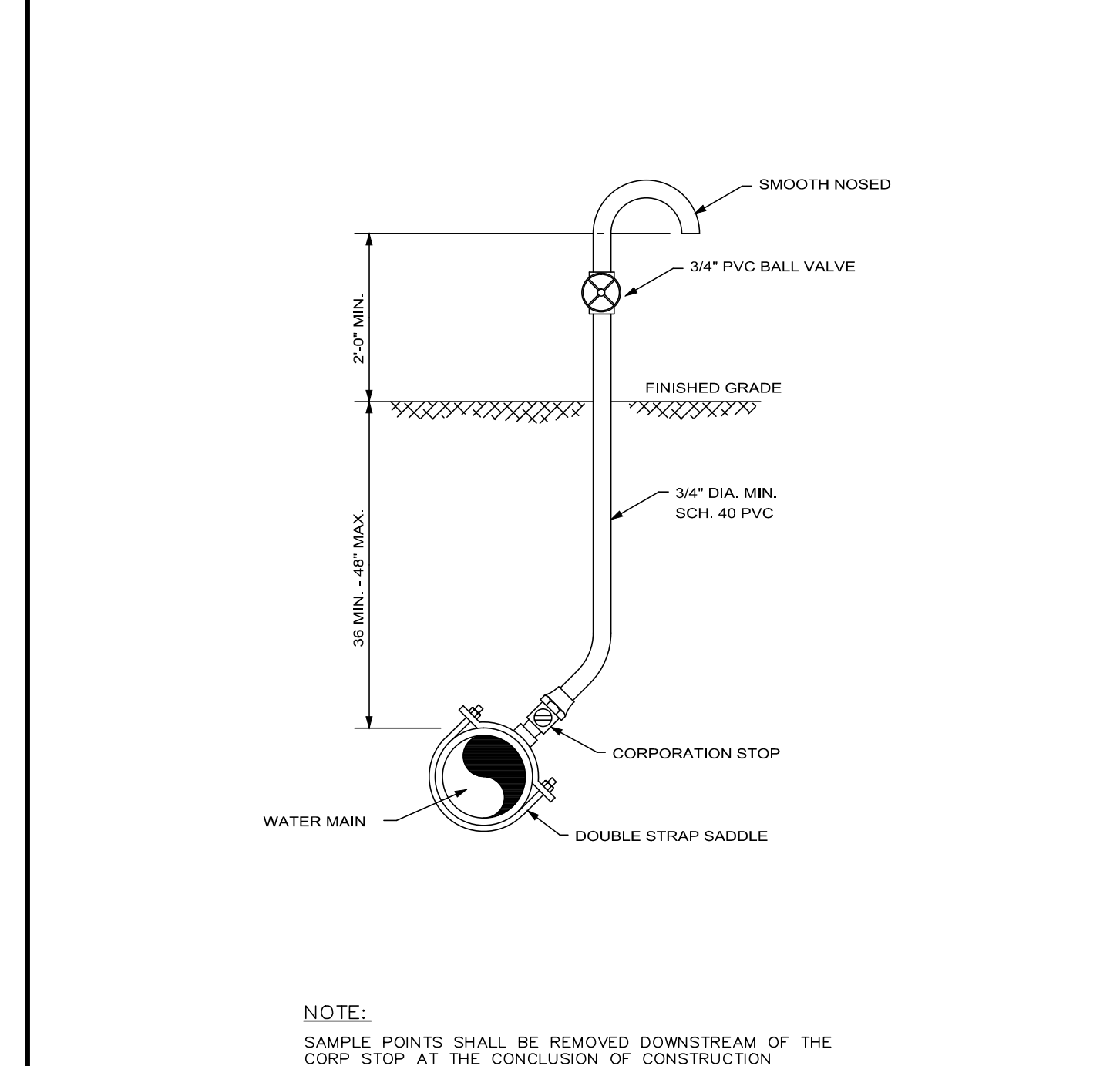
- NOTES:**
- SERVICE LINE MATERIAL SHALL BE POLYETHYLENE TUBING.
 - NO FITTINGS BETWEEN CORP. STOP & "U" BRANCH FOR MULTIMETER INSTALLATIONS.

S.I.D. CONSTRUCTION STANDARDS & DETAILS		
REVISION	ZERO LOT LINE SERVICE	PAGE No.
JUNE 2006		D23



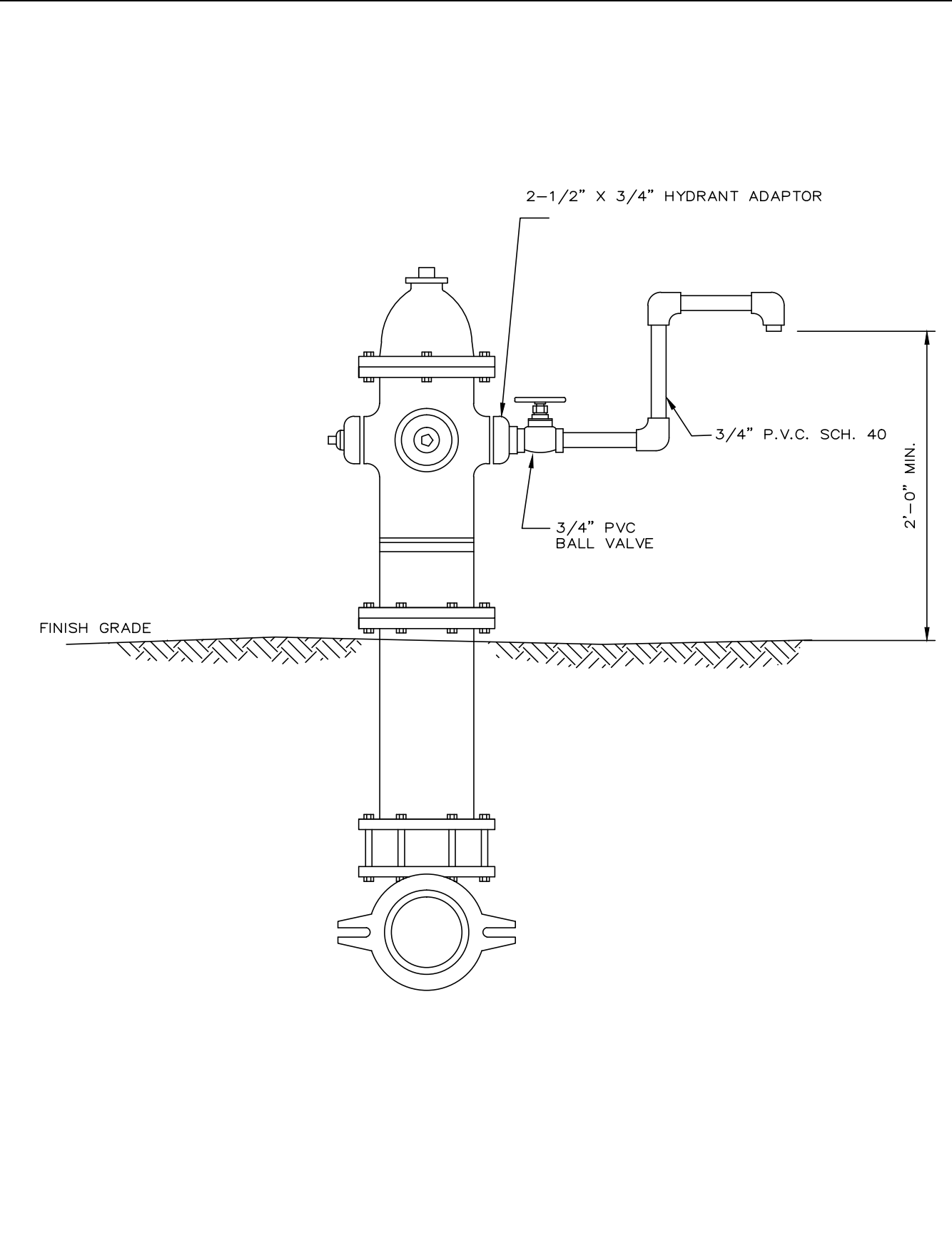
- NOTES:**
- TYPE "K" COPPER TUBING (SOFT DRAWN) OR POLYETHYLENE TUBING SDR 9 COPPER TUBE SIZE.
 - BOTH RISERS SHALL BE TYPE "K" COPPER TUBING (HARD DRAWN) WITH COPPER/BRASS "SWEAT" FITTINGS AND ADAPTERS. ONLY LEAD FREE SOLDER AND FLUX SHALL BE PERMITTED.
 - WHEN THE DEVICE IS INSTALLED PARALLEL TO A BUILDING WALL THERE SHALL BE A MIN. OF 6" BETWEEN THE EDGE OF THE DEVICE AND THE BUILDING WALL.
 - BACKFLOW PREVENTION DEVICE SHALL BE EQUIPPED WITH BALL VALVES IN LIEU OF GATE VALVES.
 - BACKFLOW PREVENTOR MUST BE INSTALLED AS CLOSE TO SOURCE OF SUPPLY AS POSSIBLE.
 - 18" MIN./30" MAX. TO CLOSEST PART OF BACKFLOW PREVENTER DEVICE.

S.I.D. CONSTRUCTION STANDARDS & DETAILS		
REVISION	TYPICAL COMMERCIAL METER / BACKFLOW PREVENTION DETAIL (3/4" TO 2")	PAGE No.
JUNE 2006		D24

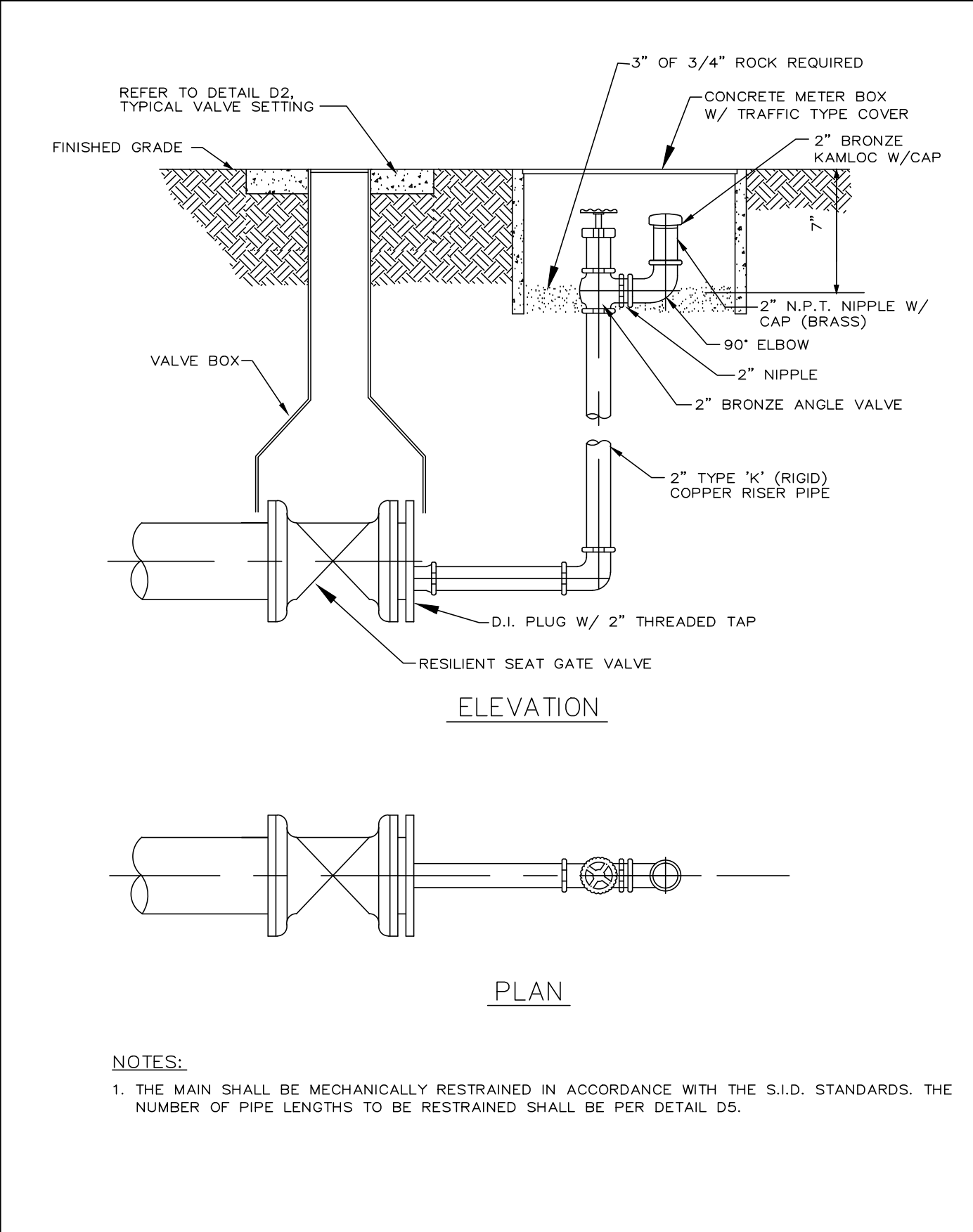


- NOTE:**
- SAMPLE POINTS SHALL BE REMOVED DOWNSTREAM OF THE CORP STOP AT THE CONCLUSION OF CONSTRUCTION

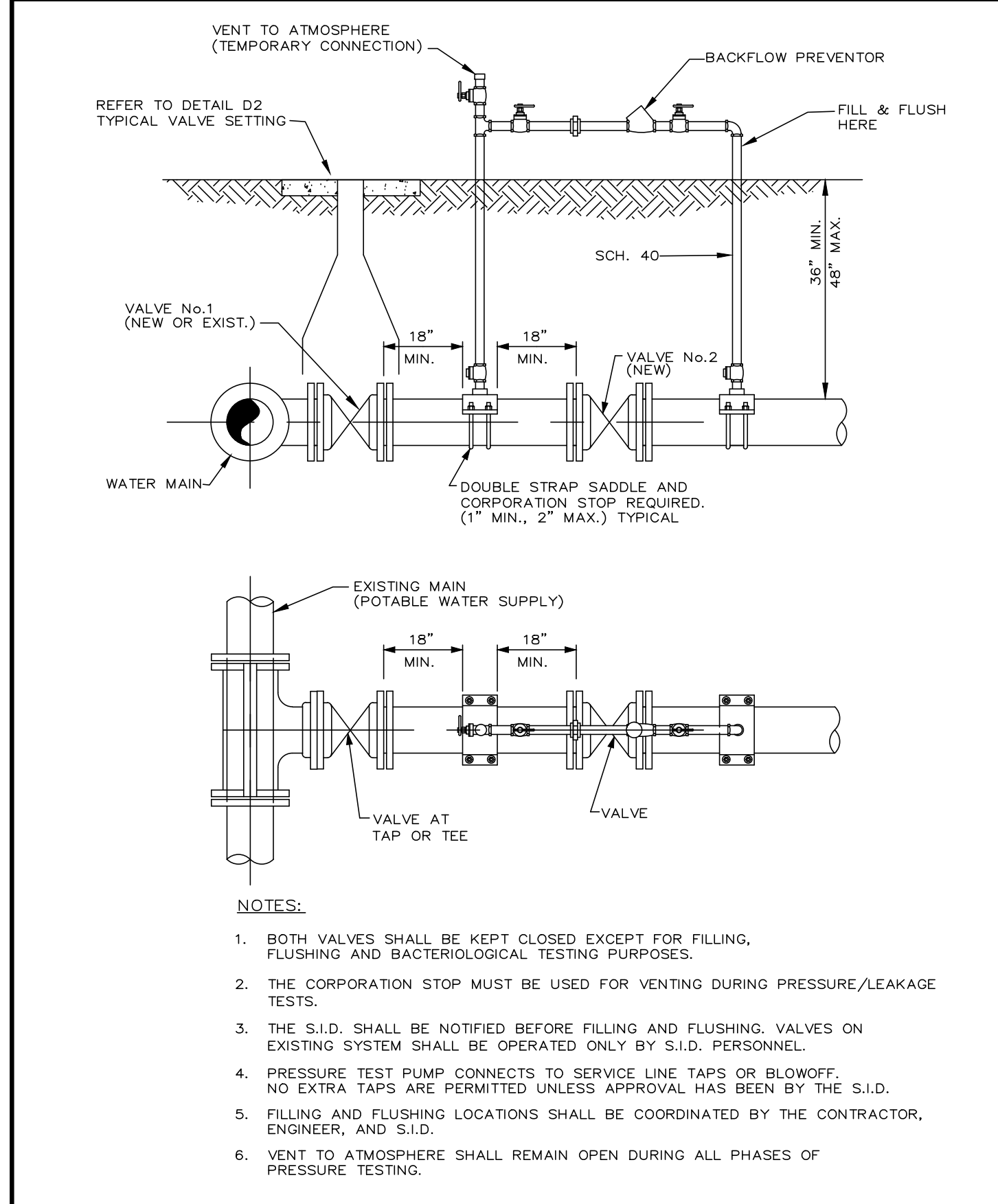
S.I.D. CONSTRUCTION STANDARDS & DETAILS		
REVISION	SAMPLING POINT (ON MAIN)	PAGE No.
JUNE 2006		D27



S.I.D. CONSTRUCTION STANDARDS & DETAILS		
REVISION	SAMPLING POINT (ON HYDRANT)	PAGE No.
JUNE 2006		D28



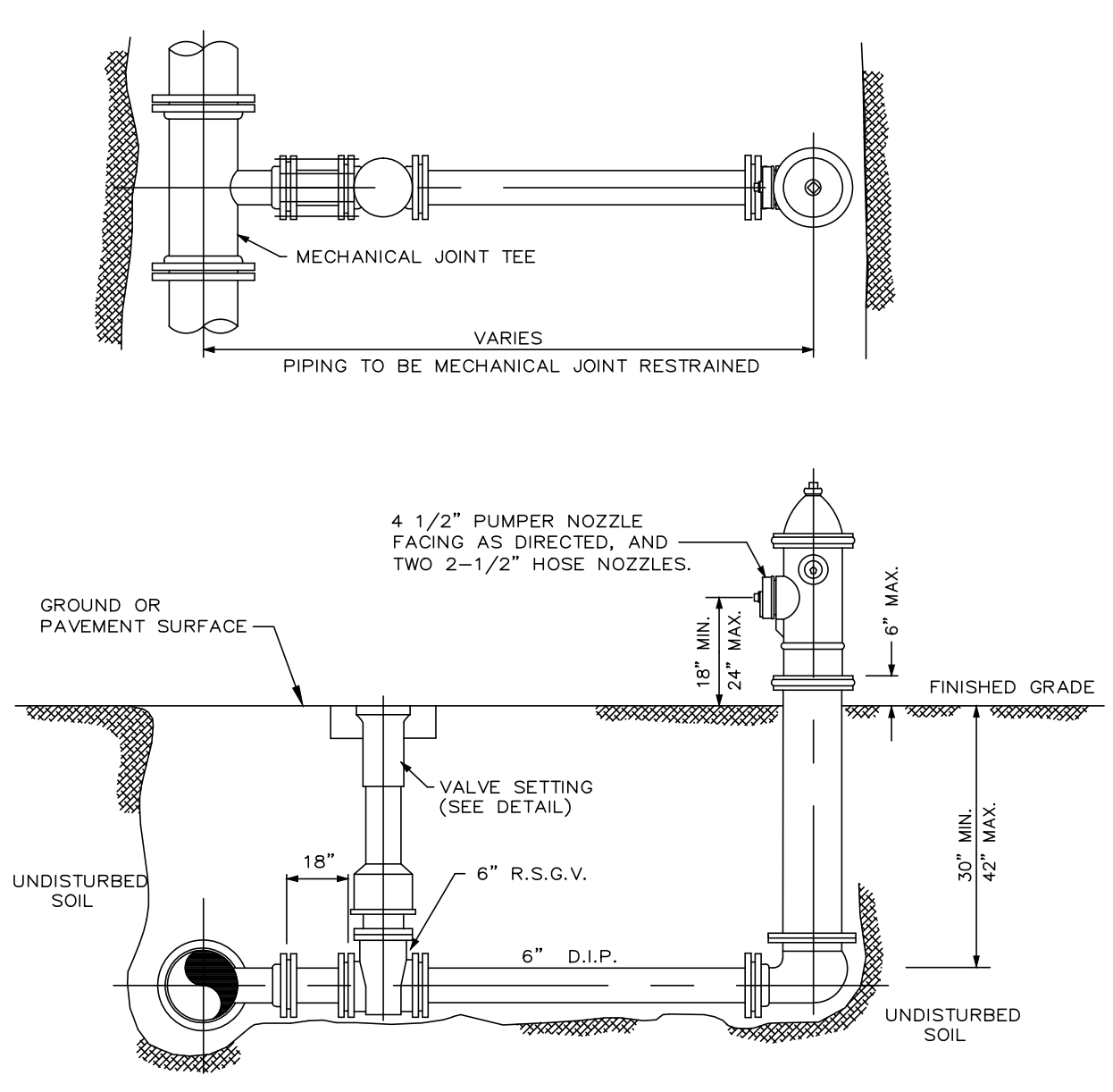
S.I.D. CONSTRUCTION STANDARDS & DETAILS		
REVISION	TYPICAL TERMINAL END WITH 2" BLOWOFF	PAGE No.
JUNE 2006		D29



S.I.D. CONSTRUCTION STANDARDS & DETAILS		
REVISION	DOUBLE VALVE DETAIL	PAGE No.
JUNE 2006		D30

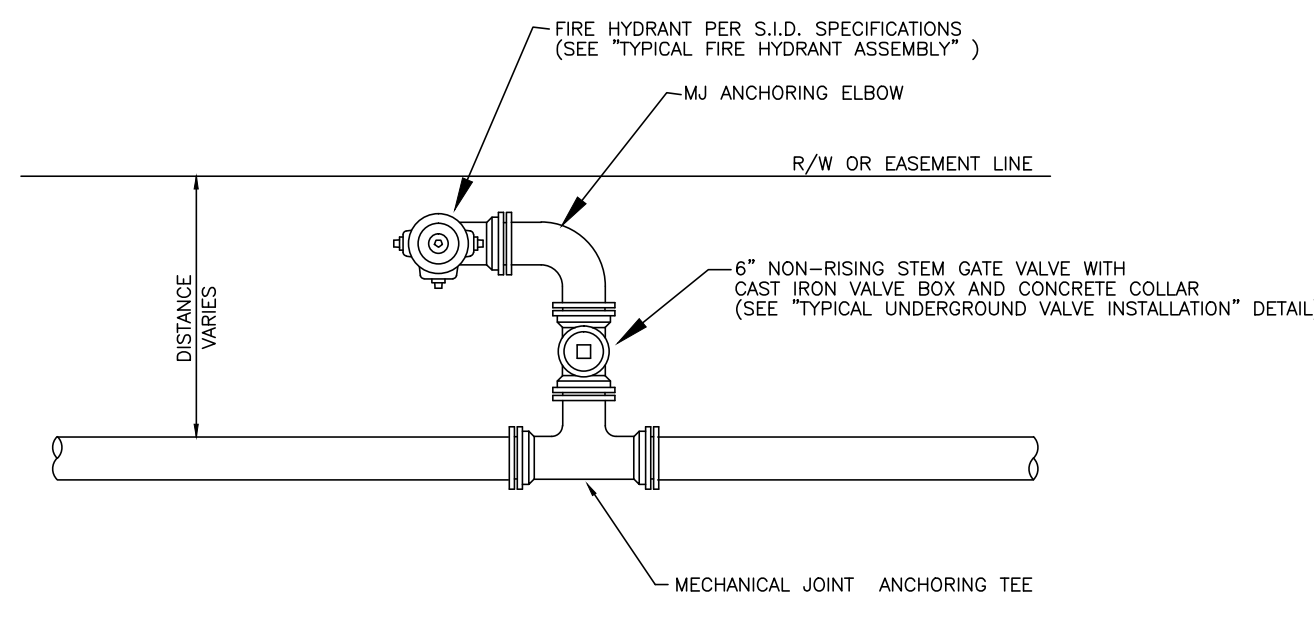
9/30/2016
PRELIMINARY

<p>ENGINEERING PLANNING CONSULTING SINCE 1982 Authorization No. 3452 2581 Metrocentre Blvd West • Suite 3 • West Palm Beach, Florida 33407 • (561) 478-7848</p>				WESTLAKE SALES CENTER SECTION 1, TOWNSHIP 43S., RANGE 40E. CITY OF WESTLAKE, FLORIDA WATER AND WASTEWATER DETAILS				
REVISIONS	DESIGN P.B.	DRAWN D.B.	CHECKED	APPROVED	DATE	JOB NO. 16-115	DRAWING NO. 16115S10	SHEET 10 OF 12



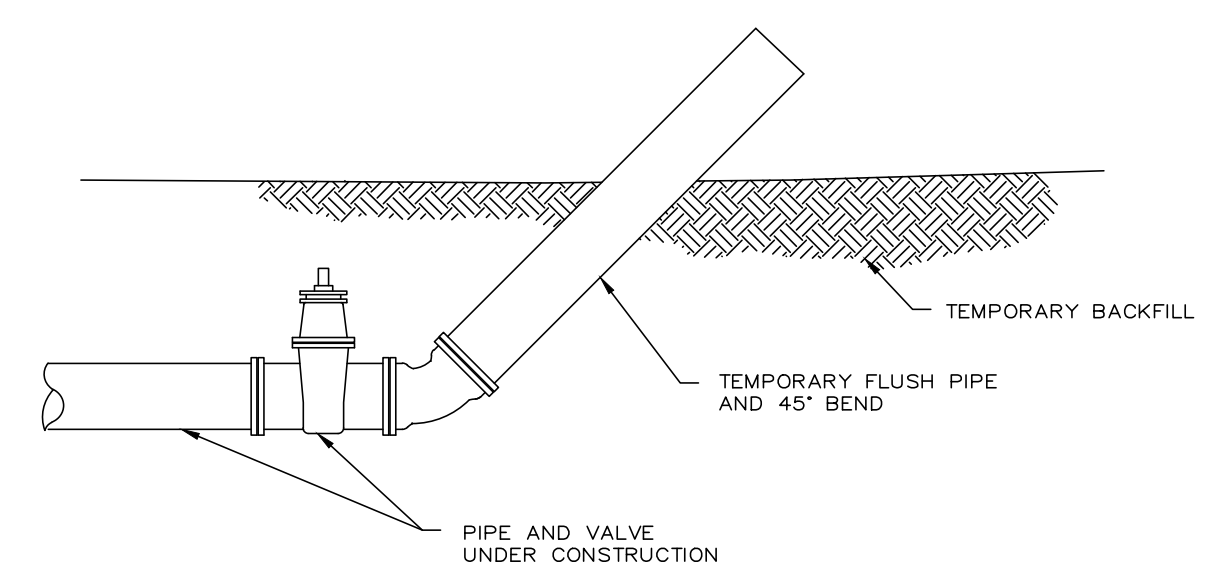
- NOTES:**
1. HYDRANT SHALL BE INSTALLED PLUMB AND TRUE.
 2. THE MODEL AND COLOR HYDRANT SHALL BE PER DISTRICT REQUIREMENTS.
 3. VALVE SHALL BE PLACED ADJACENT TO MAIN, TIED TO TEE.
 4. ANCHOR TEES ARE PERMITTED.
 5. ALL HYDRANTS SHALL BE TIED OFF OF MAINS.
 6. HYDRANTS SHALL NOT BE PLACED IN SIDEWALKS, ROADWAYS OR BIKEPATHS.
 7. ALL FITTINGS SHALL BE MECHANICALLY RESTRAINED.

S.I.D. CONSTRUCTION STANDARDS & DETAILS		
REVISION	TYPICAL FIRE HYDRANT ASSEMBLY	PAGE No.
JUNE 2006		D31



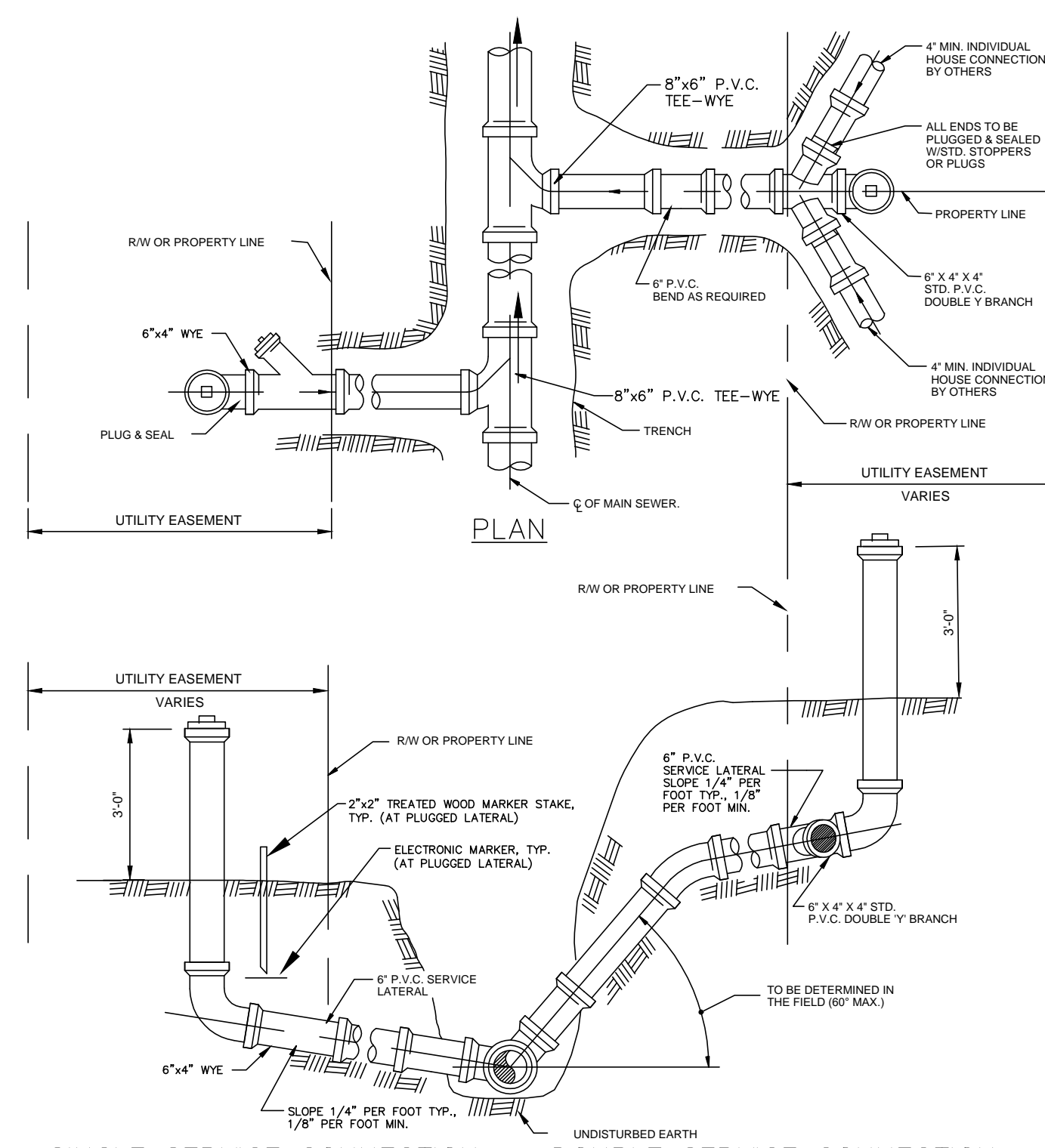
- NOTES:**
1. HYDRANT SHALL BE INSTALLED PLUMB AND TRUE.
 2. THE MODEL AND COLOR HYDRANT SHALL BE PER S.I.D. REQUIREMENTS.
 3. VALVE SHALL BE PLACED ADJACENT TO MAIN, TIED TO TEE.
 4. MECHANICAL JOINT (MJ) ANCHORING FITTINGS WILL BE USED AS NOTED.
 5. ALL HYDRANTS SHALL BE TIED OFF OF MAINS.
 6. HYDRANTS SHALL NOT BE PLACED IN SIDEWALKS, ROADWAYS OR BIKEPATHS.
 7. ALL JOINTS TO BE MECHANICAL RESTRAINED.

S.I.D. CONSTRUCTION STANDARDS & DETAILS		
REVISION	ALTERNATE FIRE HYDRANT INSTALLATION	PAGE No.
JUNE 2006		D32



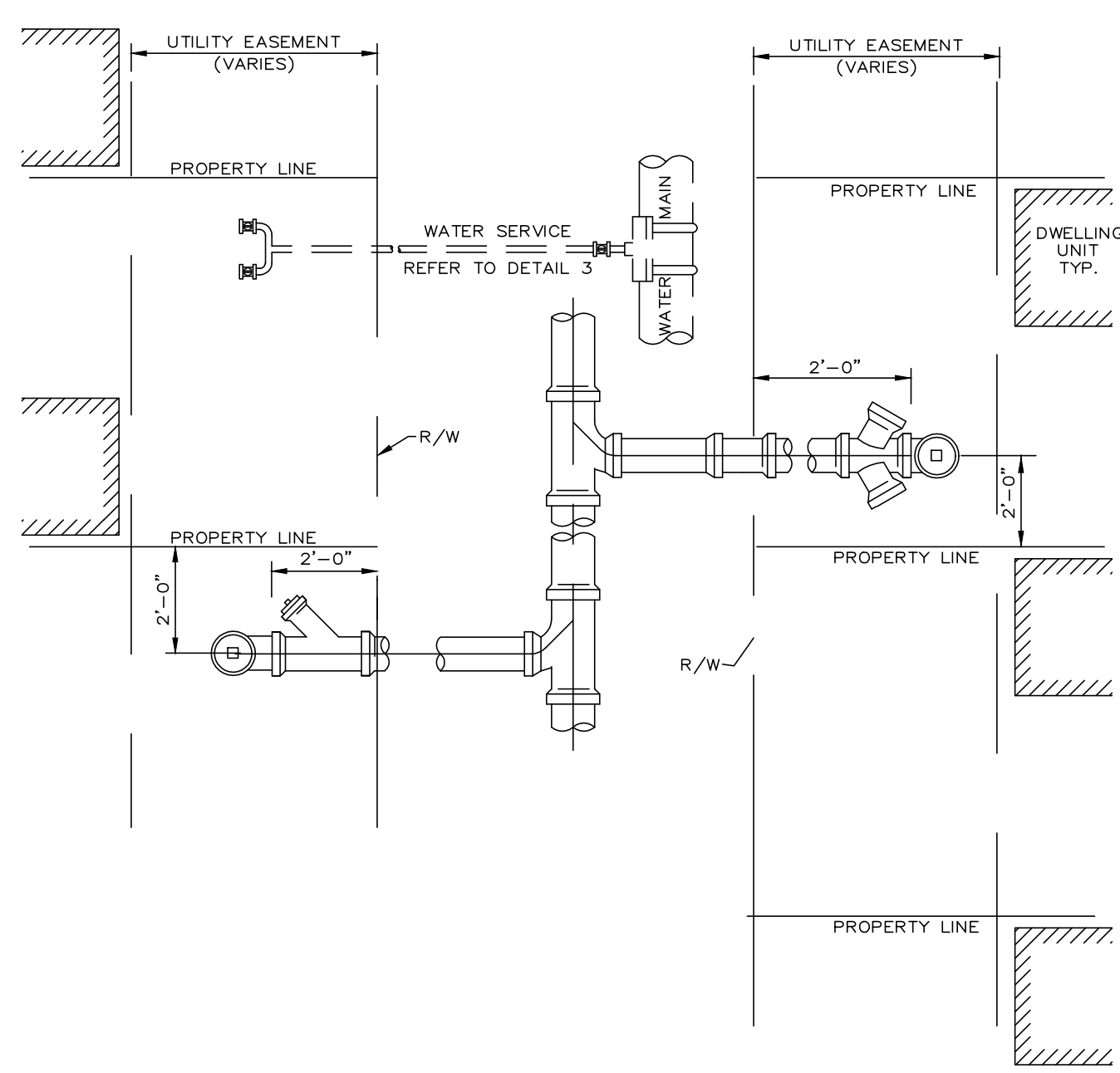
- NOTES:**
1. UPON COMPLETION OF THE PIPE INSTALLATION FOR ANY SECTION, THE MAINS SHALL BE CANNON FLUSHED TO REMOVE DIRT AND ANY OTHER FOREIGN MATTER BY ACHIEVING A MINIMUM VELOCITY OF 2.5 FEET PER SECOND IN THE PIPE. MAINS MAY BE EITHER TEMPORARILY LAID ABOVE GRADE OR TEMPORARY FITTINGS, PIPE ETC. MAY BE USED TO FACILITATE CANNON FLUSHING.
 2. INSTALL A 45° BEND AND ASSOCIATED PIPING AS SHOWN TO DIRECT THE FLUSHING WATER AWAY FROM THE IMMEDIATE WORK AREA AND EXERCISE DUE CARE SO AS TO ENSURE THAT THE WATER USED IN FLUSHING DOES NOT CAUSE A NUISANCE OR INFLECT PROPERTY DAMAGE.
 3. BENDS AND PIPING SHALL BE THE SAME SIZE AS THE LINE TO BE FLUSHED.
 4. PRIOR TO THE ACTUAL LINE FLUSHING OPERATION, THE CONTRACTOR SHALL PROPERLY NOTIFY THE S.I.D. INSPECTOR OF SUCH INTENDED WATER USE.
 5. NO EXISTING VALVES SHALL BE TURNED ON OR OFF, EXCEPT BY AUTHORIZED S.I.D. PERSONNEL.
 6. FLUSHING SHALL NOT BE ACCOMPLISHED WITHOUT THE ACTUAL PRESENCE OF THE S.I.D. INSPECTOR.
 7. AFTER THE LINE UNDER CONSTRUCTION HAS BEEN SUCCESSFULLY FLUSHED THE CONTRACTOR SHALL REMOVE THE TEMPORARY PIPING ARRANGEMENT AND PROCEED WITH THE REMAINING CONSTRUCTION AS SPECIFIED.
 8. ALL PIPING SHALL BE MECHANICALLY RESTRAINED IN ACCORDANCE WITH S.I.D. STANDARDS. THE NUMBER OF PIPE LENGTHS TO BE RESTRAINED SHALL BE PER MANUFACTURERS RECOMMENDATION.

S.I.D. CONSTRUCTION STANDARDS & DETAILS		
REVISION	CANNON FLUSHING DETAIL	PAGE No.
JUNE 2006		D34



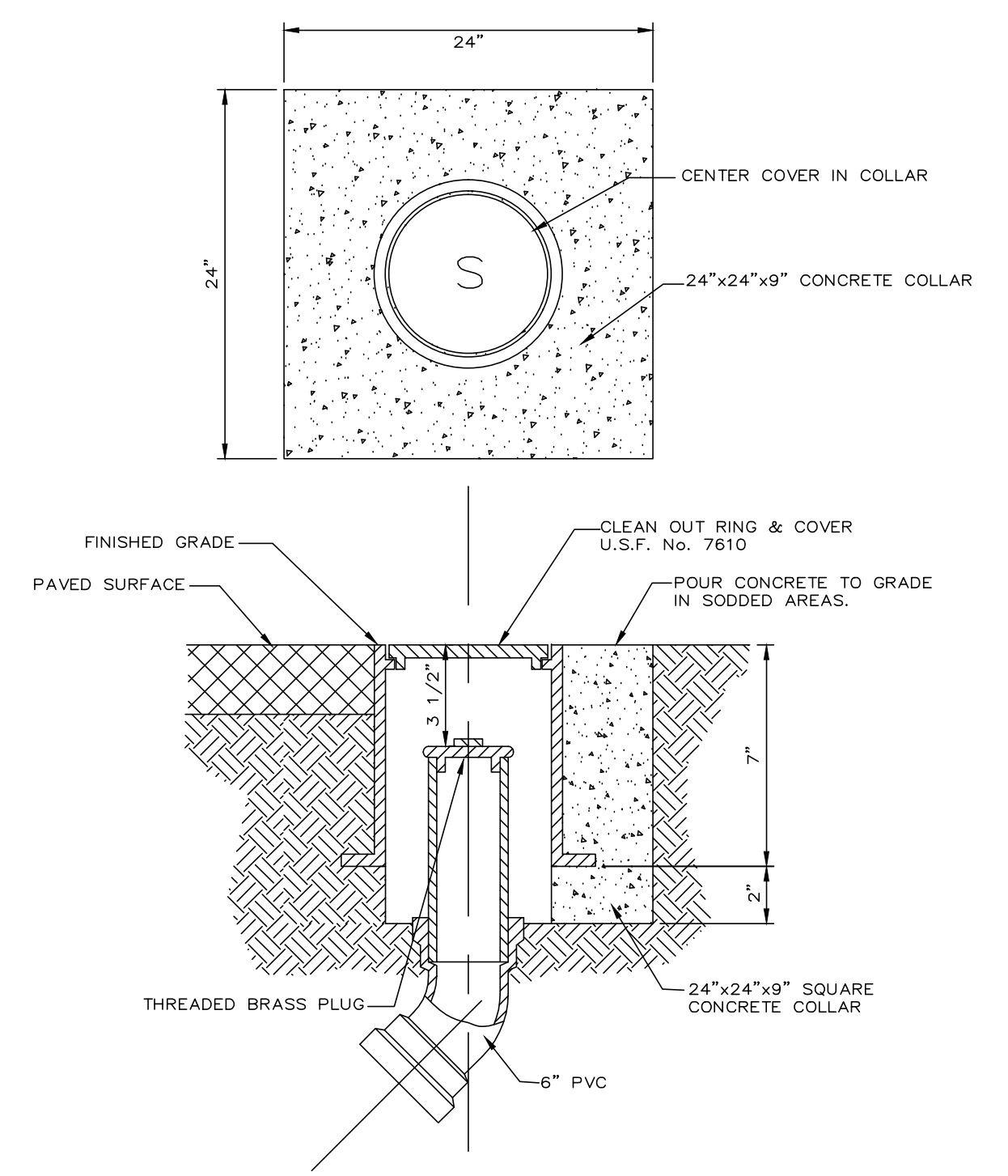
- NOTES:**
1. SERVICE LATERALS SHALL TERMINATE 2' INSIDE U.E. AT PROPERTY LINE AT A DEPTH OF 3 FEET. PLUGGED WATER TIGHT AND MARKED WITH A 2"x2" TREATED STAKE AND ELECTRONIC MARKER.
 2. THE MINIMUM DIAMETER OF ALL SERVICE LATERALS SHALL BE 6 INCHES.
 3. CONNECTION TO DISTRICT LATERAL SHALL BE MADE WITH A CLEANOUT.

S.I.D. CONSTRUCTION STANDARDS & DETAILS		
REVISION	TYPICAL SEWER SERVICE CONNECTION	PAGE No.
JUNE 2006		D40



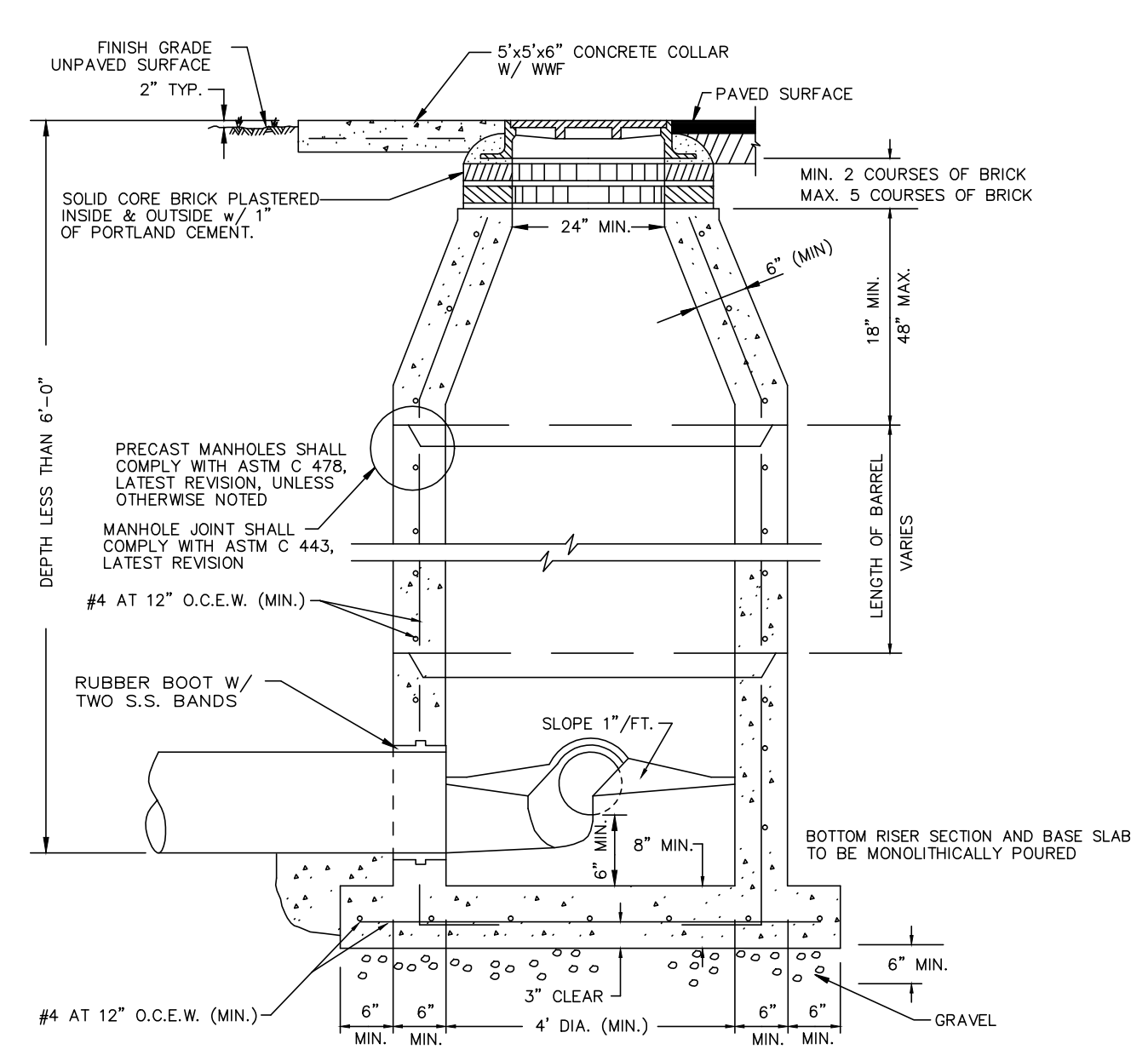
- NOTES:**
1. SERVICE LATERALS SHALL TERMINATE 2' INSIDE U.E. AT PROPERTY LINE AT A DEPTH OF 3 FEET. PLUGGED WATER TIGHT AND MARKED WITH A 2"x2" TREATED STAKE AND A.P.C. ELECTRONIC MARKER.
 2. THE MINIMUM DIAMETER OF ALL SERVICE LATERALS SHALL BE 6 INCHES.
 3. CONNECTION TO DISTRICT LATERAL SHALL BE MADE WITH A CLEANOUT.

S.I.D. CONSTRUCTION STANDARDS & DETAILS		
REVISION	TYPICAL ZERO LOT LINE SEWER SERVICE CONNECTION	PAGE No.
JUNE 2006		D41



- NOTES:**
1. CLEANOUTS TO BE LOCATED IN GRASS AREA.
 2. THE COVER TO BE MARKED "S".
 3. CLEANOUTS TO BE INSTALLED PRIOR TO C/O.

S.I.D. CONSTRUCTION STANDARDS & DETAILS		
REVISION	TYPICAL CLEANOUT	PAGE No.
JUNE 2006		D42



- NOTES:**
1. PRECAST CONCRETE TYPE II 4000 P.S.I.
 2. "RAMNEK" OR EQUAL AT ALL RISER JOINTS (1/2" THICK WITH WIDTH AT LEAST 1/2 THE WALL THICKNESS) WITH GROUT INSIDE AND OUTSIDE.
 3. ALL OPENINGS AND PIPING ENTERING OR EXITING MANHOLE SHALL BE SEALED WITH A WATERPROOF NON-SHRINKING GROUT.
 4. FLOW CHANNELS SHALL BE CONSTRUCTED TO DIRECT INFLUENT INTO FLOW STREAM (SEE DETAIL).
 5. LIFT HOLES ARE PERMITTED AND SHALL BE SEALED AFTER PLACEMENT OF RISER.
 6. ALL PIPE HOLES SHALL BE PRECAST OR CORE-DRILLED.
 7. APPROVED PRECAST RUBBER BOOTS MUST BE USED WITH PVC PIPE.
 8. INSIDE DROPS SHALL NOT EXCEED 2.0 FEET.
 9. COAT INTERIOR & EXTERIOR WITH 2 COATS COAL TAR EPOXY, 8 mil. MIN. DRY FILM THICKNESS EACH COAT.
 10. 5'x5'x6" CONCRETE COLLAR AND RAIN GUARD IS REQUIRED WHEN MANHOLE IS OUT OF PAVEMENT.
 11. WHEN MANHOLE IS CORE DRILLED, ALL PIPING SHALL BE D.I.P.

S.I.D. CONSTRUCTION STANDARDS & DETAILS		
REVISION	STANDARD MANHOLE (CONCENTRIC CONE)	PAGE No.
JUNE 2006		D43

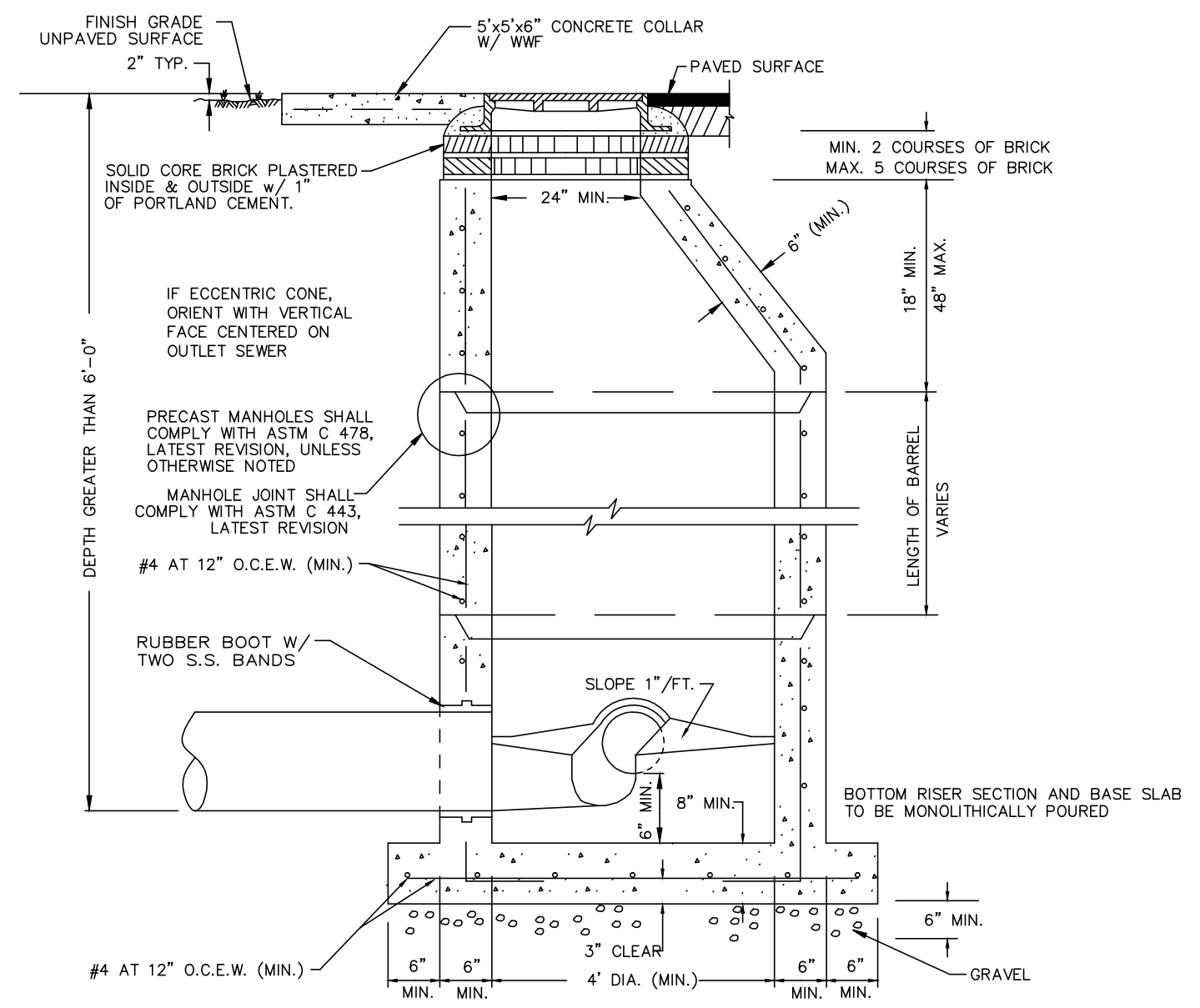
9/30/2016
PRELIMINARY

WESTLAKE SALES CENTER
SECTION 1, TOWNSHIP 43S., RANGE 40E.
CITY OF WESTLAKE, FLORIDA
WATER AND WASTEWATER DETAILS



DESIGN	DRAWN	CHECKED	APPROVED	DATE
P.B.	D.B.			

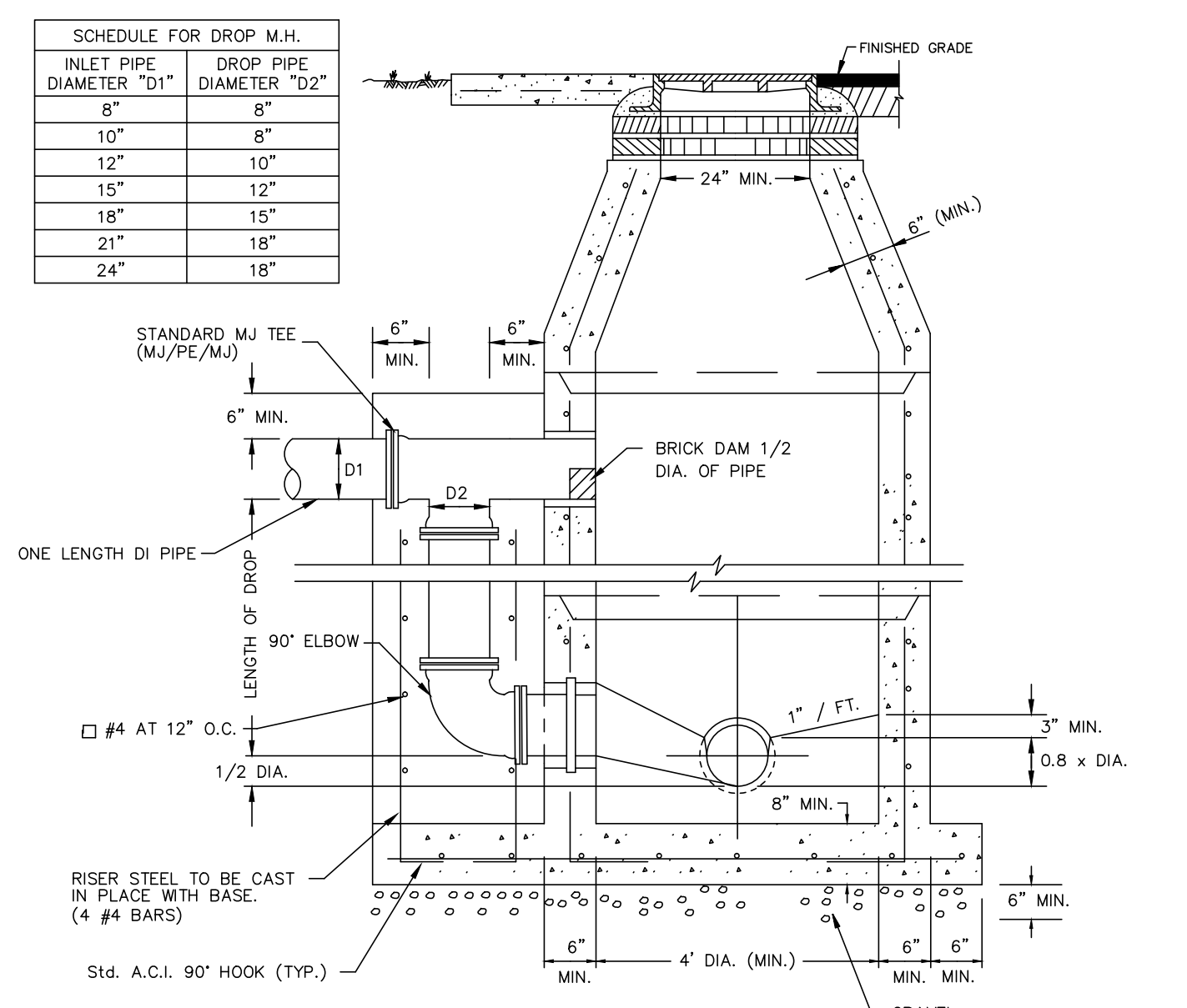
JOB NO.	DRAWING NO.	SHEET	OF
16-115	16115S11	11	12



- NOTES:
1. PRECAST CONCRETE TYPE II 4000 P.S.I.
 2. "RANKED" OR EQUAL AT ALL RISER JOINTS (1/2" THICK WITH WIDTH AT LEAST 1/2 THE WALL THICKNESS) WITH GROUT INSIDE AND OUTSIDE.
 3. ALL OPENINGS AND PIPING ENTERING OR EXITING MANHOLE SHALL BE SEALED WITH A WATERPROOF NON-SHRINKING GROUT.
 4. FLOW CHANNELS SHALL BE CONSTRUCTED TO DIRECT INFLUENT INTO FLOW STREAM (SEE DETAIL).
 5. LIFT HOLES ARE PERMITTED AND SHALL BE SEALED AFTER PLACEMENT OF RISER.
 6. ALL PIPE HOLES SHALL BE PRECAST OR CORE-DRILLED.
 7. APPROVED PRECAST RUBBER BOOTS MUST BE USED WITH PVC PIPE.
 8. INSIDE DROPS SHALL NOT EXCEED 2.0 FEET.
 9. COAT INTERIOR & EXTERIOR WITH 2 COATS COAL TAR EPOXY, 8 mil. MIN. DRY FILM THICKNESS EACH COAT.
 10. 5'x5'x6" CONCRETE COLLAR AND RAIN GUARD IS REQUIRED WHEN MANHOLE IS OUT OF PAVEMENT
 11. WHEN MANHOLE IS CORE DRILLED, ALL PIPING SHALL BE D.I.P.

S.I.D. CONSTRUCTION STANDARDS & DETAILS

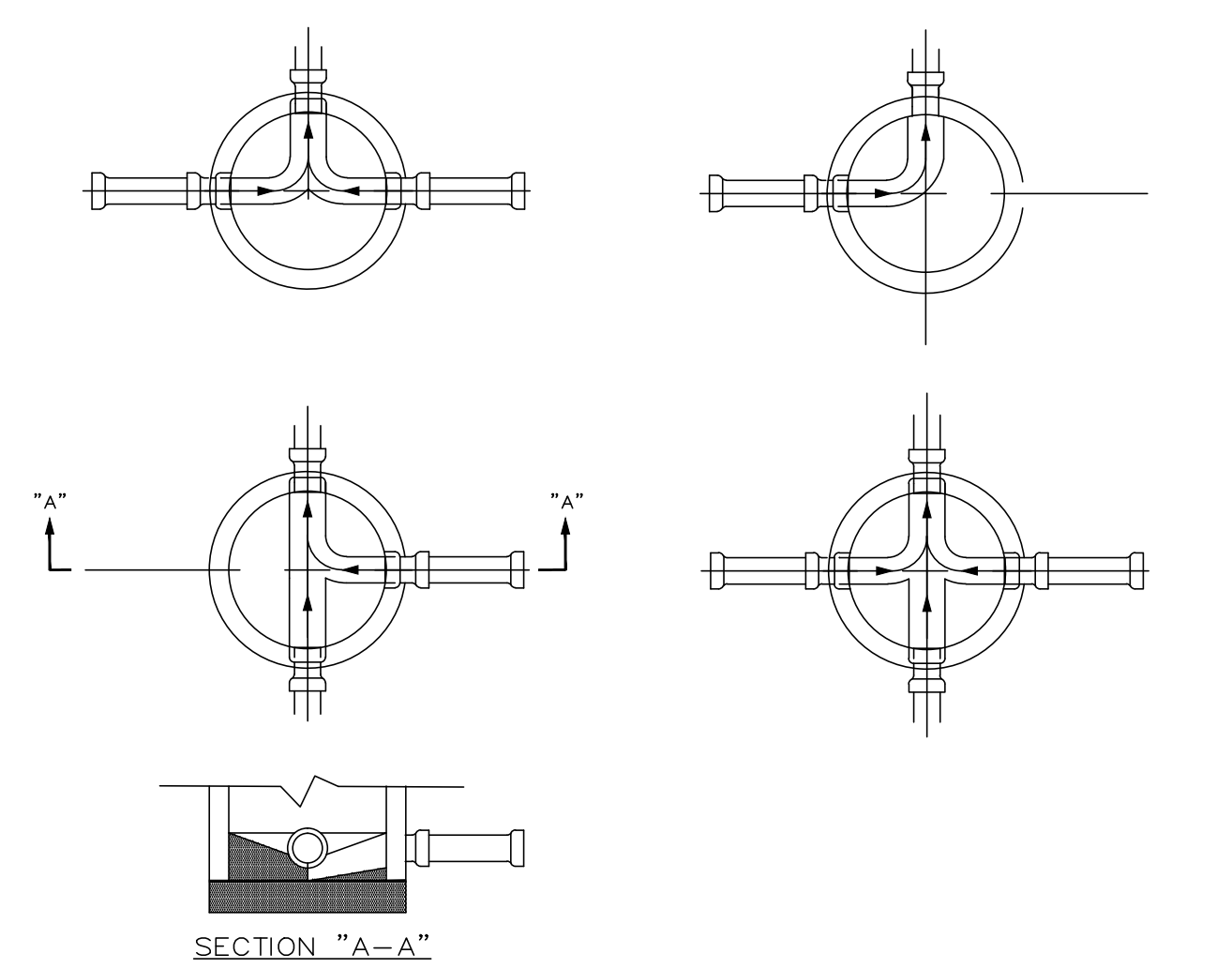
REVISION	STANDARD MANHOLE (ECCENTRIC CONE)	PAGE No.
JUNE 2006		D44



- NOTES:
1. ALL DETAILS AND SPECIFICATIONS FOR STANDARD MANHOLES ARE APPLICABLE EXCEPT FOR REFERENCES TO DROP ASSEMBLY.
 2. THE PRECAST BASE SHALL EXTEND FULLY UNDER THE DROP ASSEMBLY.
 3. DROP CONNECTIONS SHALL BE REQUIRED WHENEVER AN INFLUENT INVERT IS LOCATED 2.0 FEET OR MORE ABOVE THE MAIN CHANNEL INVERT.
 4. DROP TO BE CONSTRUCTED OUT OF DIP INCLUDING ONE FULL LENGTH OF DIP EXITING MANHOLE.
 5. 5'x5'x6" CONCRETE COLLAR WITH WWF AND RAIN GUARD IS REQUIRED WHEN MANHOLE IS OUT OF PAVEMENT

S.I.D. CONSTRUCTION STANDARDS & DETAILS

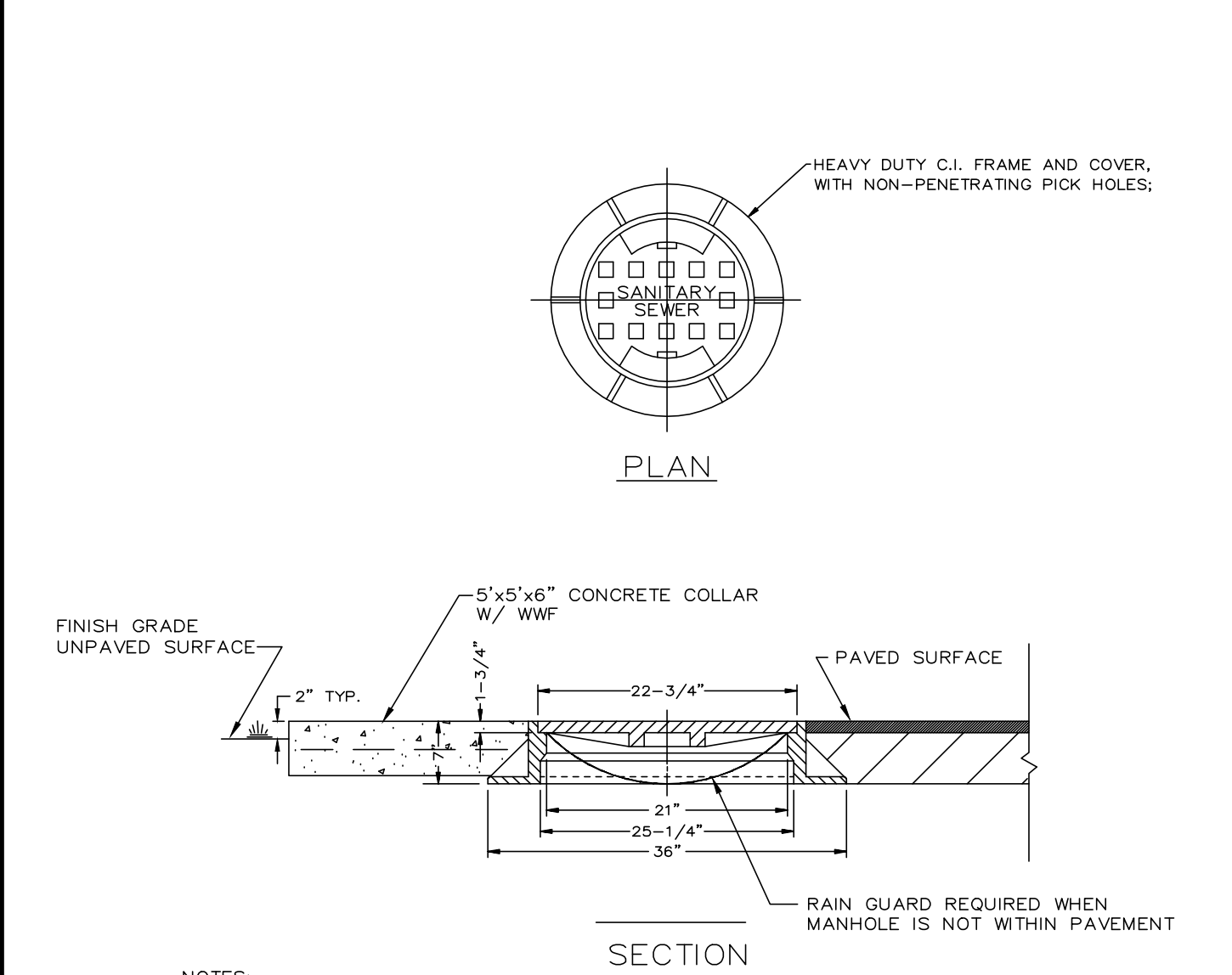
REVISION	DROP CONNECTION FOR STANDARD MANHOLE	PAGE No.
JUNE 2006		D45



- NOTES:
1. INVERT CHANNELS TO BE CONSTRUCTED FOR SMOOTH FLOW WITH NO OBSTRUCTIONS.
 2. SPILLWAYS SHALL BE CONSTRUCTED BETWEEN PIPES WITH DIFFERENT INVERT ELEVATIONS PROVIDING FOR SMOOTH FLOWS.
 3. CHANNELS FOR FUTURE CONSTRUCTION (STUBS) SHALL BE CONSTRUCTED, FILLED WITH SAND, AND COVERED WITH 1" OF MORTAR.
 4. SLOPE MANHOLE WITH A 1:2 SLOPE FROM MANHOLE WALL TO CHANNEL.
 5. INVERT SHALL BE A MINIMUM OF 1/2 THE DIAMETER OF THE LARGEST PIPE OR 4" DEEP.

S.I.D. CONSTRUCTION STANDARDS & DETAILS

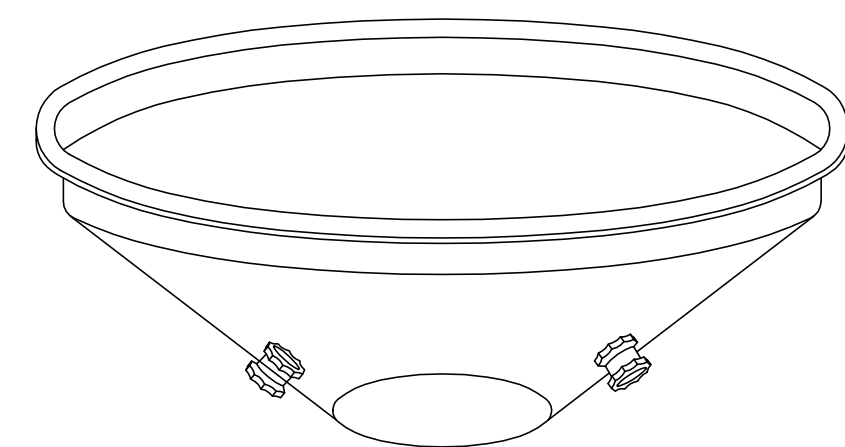
REVISION	FLOW PATTERNS FOR MANHOLE INVERTS	PAGE No.
JUNE 2006		D46



- NOTES:
1. A WATER-TIGHT MANHOLE SELF SEALING LID SHALL BE INSTALLED IN ALL MANHOLES.
 2. DETAIL TYPICAL TO SANITARY MANHOLES. SEE APPROPRIATE DETAIL FOR OTHER STRUCTURES

S.I.D. CONSTRUCTION STANDARDS & DETAILS

REVISION	STANDARD MANHOLE FRAME AND COVER	PAGE No.
JUNE 2006		D47



- NOTE:
1. SEWER RAIN GUARDS SHALL BE INSTALLED ON ALL MANHOLES CONSTRUCTED OUTSIDE OF PAVEMENT AREA.

S.I.D. CONSTRUCTION STANDARDS & DETAILS

REVISION	MANHOLE RAIN GUARD	PAGE No.
JUNE 2006		D48

9/30/2016

PRELIMINARY



WESTLAKE SALES CENTER
SECTION 1, TOWNSHIP 43S., RANGE 40E.
CITY OF WESTLAKE, FLORIDA
WATER AND WASTEWATER DETAILS

DESIGN	DRAWN	CHECKED	APPROVED	DATE	JOB NO.	DRAWING NO.	SHEET	OF
P.B.	D.B.				16-115	16115S12	12	12