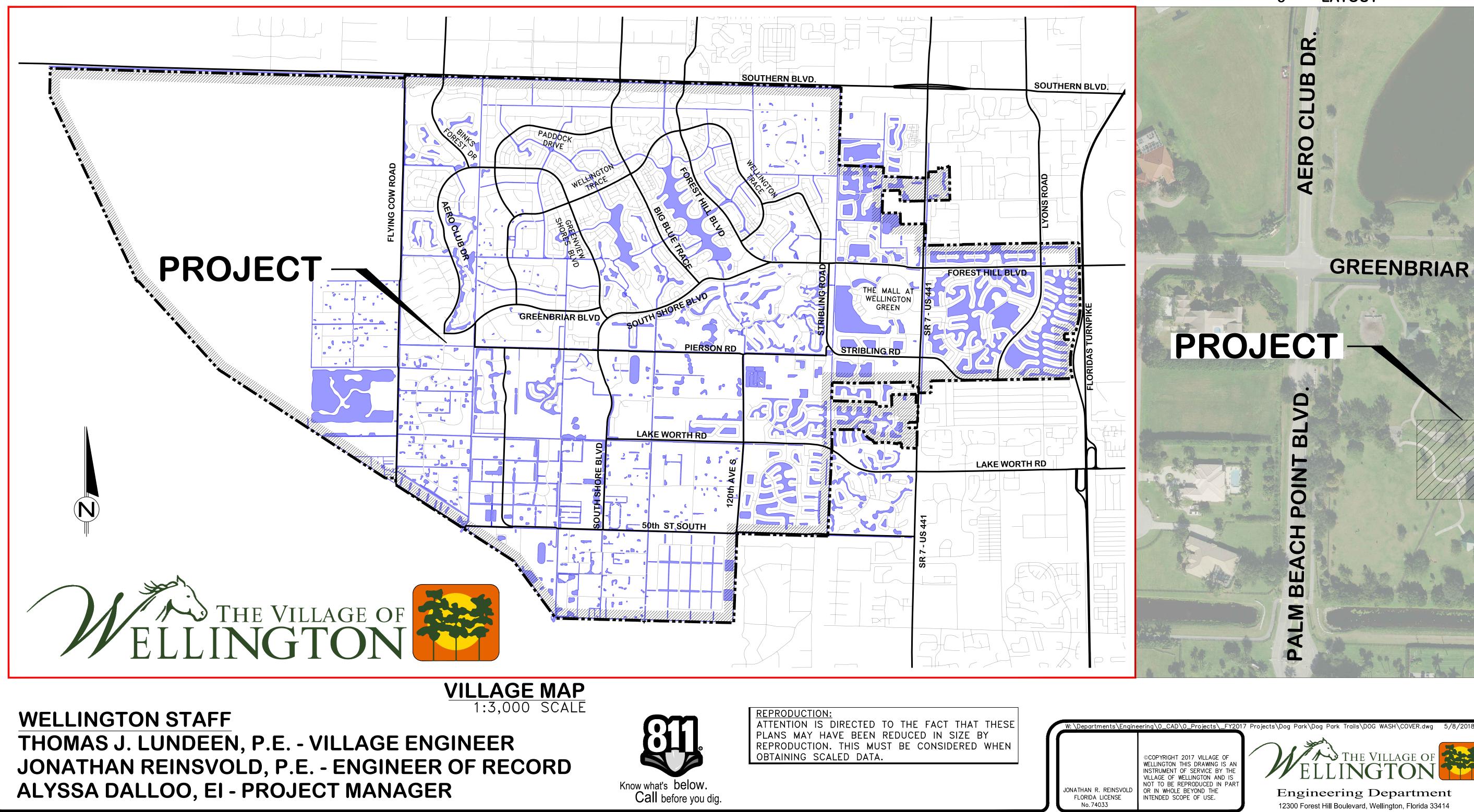
GREENBRIAR DOG PARK DOGWASH IMPROVEMENTS

VILLAGE COUNCIL ANNE GERWIG - MAYOR MICHAEL DRAHOS - VICE MAYOR **JOHN McGOVERN - COUNCILMAN MICHAEL J. NAPOLEONE - COUNCILMAN** TANYA SISKIND - COUNCILWOMAN

PAUL SCHOFIELD - VILLAGE MANAGER



DRAWING INDEX

SHEET NO. DESCRIPTION

- COVER
- DETAILS AND GENERAL NOTES
- DETAILS
- **SPECIFICATIONS**
- **CONSTRUCTION OPERATIONS LAYOUT**
- LAYOUT

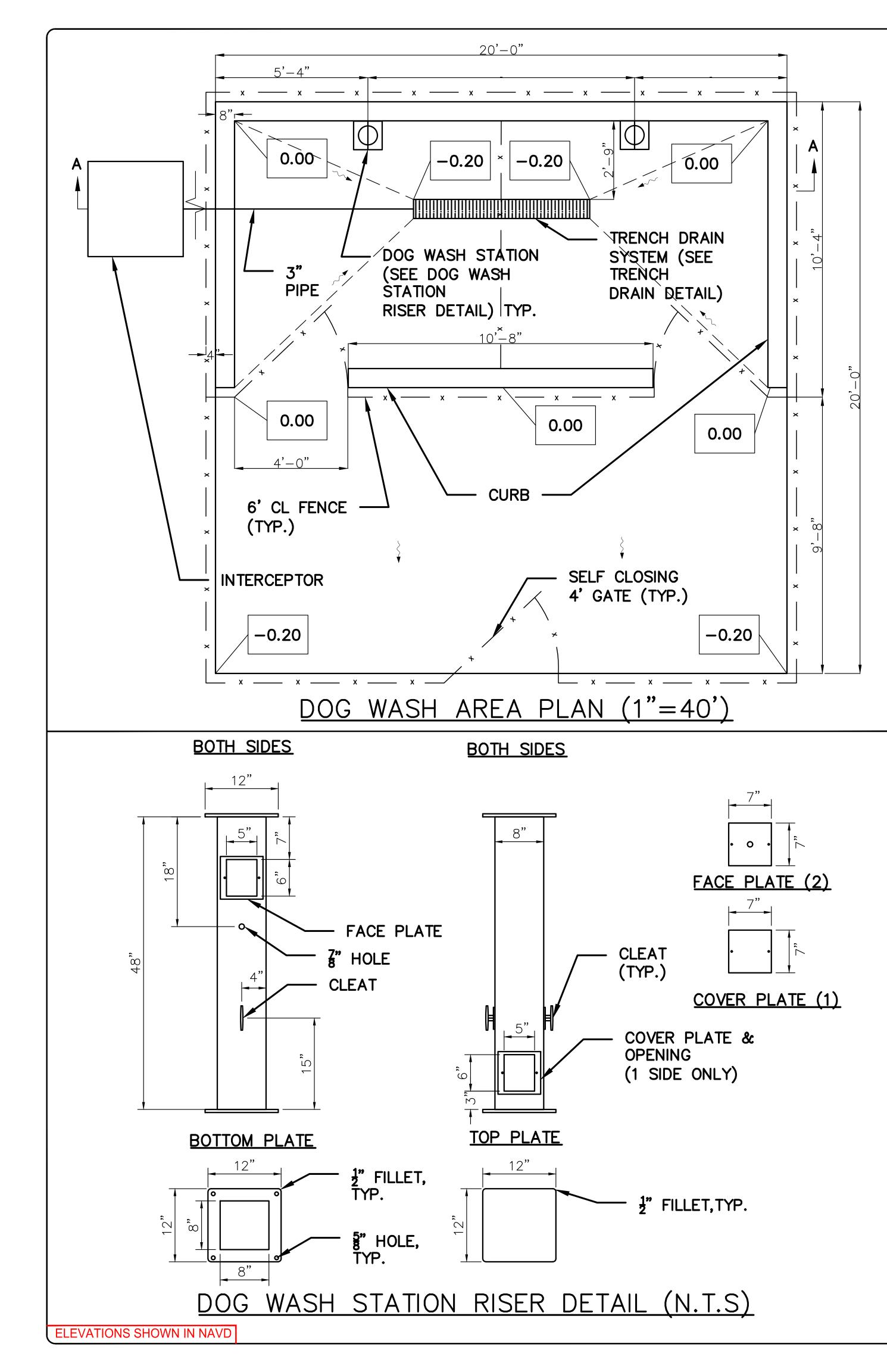


GREENBRIAR BLVD.

BID PLANS 08 / 13 / 2018

IT 2017 VILLAGE OF
N THIS DRAWING IS AN
T OF SERVICE BY THE
WELLINGTON AND IS
REPRODUCED IN PART
LE BEYOND THE
SCOPE OF USE.

8:	22 AM			
	START DATE	11/2017	S	
	DRAWN	J.R.R.	Ĥм	COVER
	PROJECT ENGINEER	J.R.R.	E O E ·	OOVER
	PROJECT MANAGER	J.R.R.		JOB NO.
ļ	CHECKED	T.J.L.		



GENERAL NOTES

1. ALL WORK SHALL CONFORM TO FDOT SPECIFICATIONS AND DESIGN STANDARDS, LATEST EDITION, UNLESS SPECIFIED OTHERWISE. 2. WORK INCLUDED

a. THE CONTRACTOR SHALL FURNISH ALL LABOR, SUPERINTENDENCE, QUALITY CONTROL, MATERIALS, PLANT, POWER, LIGHT, HEAT, FUEL, WATER, TOOLS, APPLIANCES, EQUIPMENT, SUPPLIES, AND OTHER MEANS OF CONSTRUCTION NECESSARY AND PROPER FOR PERFORMING AND COMPLETING THE WORK. CONTRACTOR SHALL PERFORM AND COMPLETE THE WORK IN THE MANNER BEST CALCULATED TO PROMOTE SCHEDULED CONSTRUCTION CONSISTENT WITH SAFETY OF LIFE AND PROPERTY AND TO THE SATISFACTION OF THE OWNER, AND IN STRICT ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL CLEAN UP THE WORK, MAINTAIN IT DURING CONSTRUCTION, AND PAY ALL COSTS INCIDENTAL THERETO. CONTRACTOR SHALL REPAIR OR RESTORE ALL STRUCTURES AND PROPERTY THAT MAY BE DAMAGED OR DISTURBED DURING PERFORMANCE OF THE WORK.

 THE COST OF INCIDENTAL WORK DESCRIBED IN THESE GENERAL REQUIREMENTS, FOR WHICH THERE ARE NO SPECIFIC CONTRACT ITEMS, SHALL BE CONSIDERED AS PART OF THE GENERAL COST OF DOING THE WORK AND SHALL BE INCLUDED IN THE PRICES FOR THE VARIOUS CONTRACT ITEMS. NO ADDITIONAL PAYMENT WILL BE MADE THEREFORE.
 C. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SUCH MODERN PLANT, TOOLS, AND EQUIPMENT AS MAY BE

NECESSARY IN THE OPINION OF THE ENGINEER, TO PERFORM IN A SATISFACTORY AND ACCEPTABLE MANNER ALL THE WORK REQUIRED BY THE CONTRACT. ONLY EQUIPMENT OF ESTABLISHED REPUTATION AND PROVEN EFFICIENCY SHALL BE USED. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE ADEQUACY OF WORKMANSHIP, MATERIALS AND EQUIPMENT, PRIOR APPROVAL OF THE ENGINEER NOTWITHSTANDING 3.SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

 a.SUBMIT AT LEAST FIVE (5) COPIES OF ALL REQUIRED SHOP DRAWINGS, PRODUCT DATA AND SAMPLES FOR ENGINEER'S REVIEW.
 b.SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND TRANSMITTAL LETTERS PERTAINING THERETO SHALL BE IDENTIFIED WITH THE TITLE OF THE PROJECT, SUBMISSION DATE, AND THE CONTRACTOR'S ACKNOWLEDGEMENT THAT HE HAS

REVIEWED THEM AND FOUND THEM ACCEPTABLE. c.NOTIFY ENGINEER IN WRITING, AT THE TIME OF SUBMITTAL, OF ANY DEVIATIONS IN THE SUBMITTALS FROM THE REQUIREMENTS OF THE CONTACT DOCUMENTS. d.THE REVIEW AND APPROVAL OF SHOP DRAWINGS, SAMPLES OR PRODUCT DATA BY THE ENGINEER SHALL NOT

RELIEVE THE CONTRACTOR FROM HIS/HER RESPONSIBILITY WITH REGARD TO THE FULFILLMENT OF THE TERMS OF THE CONTRACT DOCUMENTS. ALL RISKS OF ERROR AND OMISSION ARE ASSUMED BY THE CONTRACTOR AND THE ENGINEER WILL HAVE NO RESPONSIBILITY THEREFORE. 4. THE LOCATION OF ALL EXISTING UTILITIES SHOWN IN THE PLANS ARE PROXIMATE ONLY AND ARE BASED ON AS BUILT

SURVEY INFORMATION. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION. ANY AND ALL KNOWN CONFLICTS WITH EXISTING UTILITIES SHALL BE REPORTED TO THE CONSULTANT. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED. THE APPROPRIATE UTILITY COMPANY SHALL BE NOTIFIED IN ADVANCE OF ANY EXCAVATION INVOLVING THEIR UTILITIES SO THAT A COMPANY REPRESENTATIVE CAN BE PRESENT. DETERMINATION OF THE EXACT LOCATION OF ANY/ALL UTILITIES WHICH MAY BE INVOLVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING UTILITY LOCATION PRIOR TO SUBMITTING SHOP DRAWINGS OF PRECAST COMPLEX STRUCTURES FOR APPROVAL.

UTILITY OWNERS & CONTACT: TELEPHONE NO.

AT&T		
SANDRA EMERT	(561)	357-6616
COMCAST CABLEVISION		
JEANNINE MCENROE	(561)	881-3255
FLORIDA POWER & LIGHT		
ALAN BOAZ	(561)	575-6346
FLORIDA PUBLIC UTILITIES		
VINCE KREPPS	(561)	684-4030
VILLAGE OF WELLINGTON		
COREY ROBINSON	(561)	753–2464
PALM BEACH COUNTY TRAFFIC	COMMUNICATION	
SUPERINTENDENT	(561)	533-3900

5. THE CONTRACTOR SHALL NOTIFY THE PROPER UTILITY COMPANY AT LEAST 48 HOURS IN ADVANCE OF ANY EXCAVATION NEAR OR AROUND THEIR FACILITY SO THAT A COMPANY REPRESENTATIVE CAN BE PRESENT.
6. THE CONTRACTOR IS TO USE EXTREME CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES AND UNDERGROUND UTILITIES.
7. THE CONTRACTOR IS TO PROTECT UNDERGROUND UTILITIES DURING CONSTRUCTION AT ALL TIMES.

8.FOR UTILITY ADJUSTMENT SYMBOLS, SEE FDOT STANDARD INDEX 002.

9. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED THE PROJECT ENGINEER SHALL NOTIFY THE COUNTY SURVEYOR WITHOUT THE WAY BY TELEPHONE.

10. ALL ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988 IN FEET.

11. TOPOGRAPHIC SURVEY PERFORMED BY BROWN & PHILLIPS, INC. ON 11/17. 12. ANY MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED.

13. ALL EXISTING TREES & SHRUBS IN CONFLICT WITH PROPOSED PATHWAYS WITHIN R/W SHALL BE REMOVED.

14. NEATLY REMOVE OR PRUNE ALL EXIST. TREES, HEDGES AND OTHER VEGETATION (INCLUDING THOSE NOT SHOWN HEREON) AS NECESSARY TO PROVIDE MINIMUM CLEARANCES OF 1FT HORIZONTAL AND 10FT VERTICAL FROM THE

PROPOSED PATH. 15. ALL PEDESTRIAN ROUTES SHALL MEET THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT. CROSS SLOPES SHALL NOT EXCEED 2% AND LONGITUDINAL SLOPES SHALL NOT EXCEED 5%. 16. EXISTING DRAINAGE STRUCTURES AND PIPES WITHIN THE LIMITS OF CONSTRUCTION SHALL REMAIN UNLESS OTHERWISE

NOTED. 17. ALL EXISTING PIPES THAT ARE TO REMAIN ARE TO BE CLEANED OUT (DESILTED) AS DIRECTED BY THE ENGINEER. 18. ALL STATIONS AND OFFSETS ARE FROM THE CENTERLINE OF CONSTRUCTION TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED. 19. RADII, DIMENSIONS AND ELEVATIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

20.PROPOSED GRADES SHOWN OUR FINISH GRADES.

21. FOR DETAILS OF CURB CUT RAMPS SEE FDOT STANDARD INDEX NO. 304. 22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF EXISTING LANDSCAPING AND IRRIGATION SYSTEMS

LOCATED ON PRIVATE PROPERTY. REPAIR OR REPLACEMENT OF SYSTEMS DAMAGE BY THE CONTRACTOR SHALL BE MADE AT THE EXPENSE OF THE CONTRACTOR. 23. THE CONTRACTOR AND OR HIS SUBCONTRACTORS SHALL BE IN COMPLIANCE WITH CURRENT OSHA, STATE, COUNTY AND LOCAL REGULATIONS, WHICH INCLUDE BUT ARE NOT LIMITED TO 54 CFR 45894 AND 29 CFR 1926.650 & 651 AND

THE FLORIDA TRENCH SAFETY ACT. 24. CONTRACTOR SHALL OBTAIN A 'DEWATERING GENERAL WATER USE PERMIT" FROM THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT PRIOR TO COMMENCING DEWATERING UNLESS THE WORK QUALIFIES FOR A 'NO-NOTICE' AUTHORIZATION AS DESCRIBED IN RULE 40E-20.302(3) OF THE FLORIDA ADMINISTRATIVE CODE.AND APPROVE SET OF CONSTRUCTION PLANS AND CONTRACT DOCUMENTS SHALL BE MAINTAINED BY THE CONTRACTOR ON SITE AT ALL TIMES DURING CONSTRUCTION OPERATIONS. 25. SALVAGE MATERIAL

a.ALL SALVAGEABLE MATERIAL AND EQUIPMENT REMOVED FROM THE EXISTING CONSTRUCTION FOR WHICH SPECIFIC USE, RELOCATION OR OTHER DISPOSAL IS NOT SPECIFICALLY NOTED ON THE DRAWINGS OR OTHERWISE SPECIFIED, SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE TURNED OVER TO HIM. ALL MATERIAL AND EQUIPMENT NOT IN SALVAGEABLE CONDITION AS DETERMINED BY THE ENGINEER, SHALL BE DISPOSED OF BY THE CONTRACTOR IN A LEGAL MANNER AT THE CONTRACTOR'S EXPENSE. THE ACTUAL STORAGE SITE FOR SALVAGEABLE MATERIAL WILL BE DESIGNATED BY THE OWNER.

28. CLEANING a. DURING CONSTRUCTION OF THE WORK, THE CONTRACTOR SHALL, AT ALL TIMES, KEEP THE SITE OF THE WORK AND ADJACENT PREMISES AS FREE FROM MATERIAL, DEBRIS AND RUBBISH AS IS PRACTICABLE AND SHALL REMOVE THE SAME FROM ANY PORTION OF THE SITE IF, IN THE OPINION OF THE ENGINEER, SUCH MATERIAL, DEBRIS, OR RUBBISH CONSTITUTES A NUISANCE OR IS OBJECTIONABLE.

b.AT THE CONCLUSION OF THE WORK, ALL TOOLS, TEMPORARY STRUCTURES AND MATERIALS BELONGING TO THE CONTRACTOR SHALL BE PROMPTLY TAKEN AWAY AND CONTRACTOR SHALL REMOVE AND PROMPTLY DISPOSE OF ALL RUBBISH OR ANY OTHER FOREIGN MATERIALS. THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL MATERIAL INSTALLED AND SHALL DELIVER SUCH MATERIALS UNDAMAGED IN A CLEAN AND NEW CONDITION.

NOTES

 RISERS TO BE FABRICATED BY CONTRACTOR. SHOP DRAWINGS SHALL BE SUBMITTED TO THE OWNER PRIOR TO FABRICATION.
 IT IS THE CONTRACTOR'S RESPONSIBILITY TO CREATE THE DOG WASH STATION, POURING SLAB & INSTALLING RISERS, WATER SUPPLY LINES, TRENCH DRAINS, DISCHARGE LINES, DRAINFIELD, INTERCEPTORS, CHAIN LINK FENCES & GATES.
 SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL CONSTRUCTION MATERIALS.

4. CONTRACTOR TO UTILIZE EX. WATER SUPPLY AT EX. DOG WASH STATION, LOCATED AT THE PROJECT SITE.

DRAINAGE:

- 1. NOTIFY ENGINEER OF 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 STREETLIGHT 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 LATEST AND MOST RELIABLE DATA AVAILABLE TO THE ENGINEER. THIS INFORMATION IS NOT TO BE GUARANTEED, HOWEVER, AND IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE LOCATION, CHARACTER AND DEPTH OF ANY EXISTING UTILITIES.
- SHALL BE THE CONTRACTORS 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. ALL DRAINAGE CONSTRUCTION SHALL CONFORM TO FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST ADDITION) AND THE VILLAGE OF WELLINGTON REQUIREMENTS.
- 7. ALL DRAINAGE PIPE SHOWN AS RCP SHELBY REINFORCED CONCRETE PIPE CLASS III, WALL "B" AND CONFORMING TO THE FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
 8. 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 DRIVE FOR WORK REQUIRED.
- 9.NO OFF-SITE DISCHARGE FROM DEWATERING OPERATION SHALL BE PERMITTED UNLESS THE CONTRACTOR SECURES WRITTEN PERMISSION FROM THE GOVERNING AUTHORITIES. 10. WHERE ENCOUNTERED, MARK SHALL BE COMPLETELY REMOVED FROM THE PAVED AREAS TEND TO BE ON THE EDGE OF
- PAVEMENT EACH SIDE. 11. CONTRACTOR TO PROVIDE TEST REPORTS FROM AN INDEPENDENT LABORATORY FOR PROCTORS AND DENSITIES ON BASE UPGRADING PIPE BACKFILL. 12. CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPLETE PAVING AND DRAINAGE, WATER AND SEWER CONSTRUCTION RECORD INFORMATION TO THE ENGINEER. 13. 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.
- 14. THE CONTRACTOR SHALL FILL AND FIND GRADE ALL PLANTING AREAS, LEAVING THE FINISH GRADE SMOOTH AND READY TO RECEIVE SOD OR OTHER PLANNING MATERIAL. WHERE SODUS DESIRED, THE FINISH GRADE SHALL BE 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. 15. ALL SWELL, RIGHT-OF-WAY AREAS AND YARD AREAS SHALL BE GRADED AND SEATED OR SODDED IN ACCORDANCE WITH GOVERNING AGENCY STANDARDS. NO AREAS SHALL BE LEFT BARREN OR SUBJECT TO EROSION.
- 16. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO IT HERE TO ALL OSHA RULES AND FLORIDA LAWS RELATED TO TRENCH SAFETY.
 17. CONTRACTOR SHALL ENSURE NO SETTLEMENT OR DEBRIS LEAVE THE SITE OR CONSTRUCTION IN ACCORDANCE WITH NPDES REQUIREMENTS (SILK FENCE, HAYBALE'S OR SOUGHT APRONS ORNAMENTS, WASH ROCK EXIT, ETC. MAY BE REQUIRED TO MEET SAID REQUIREMENTS). CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION IMPLEMENTATION AND CERTIFICATION OF ALL NPDES POLLUTION PREVENTION RELATED MEASURES (IE FILING OF AN AND OI POLLUTION PREVENTION PLAN MONITORING REPORTS, ETC.)

EXISTI			
BACKFLOW PREVENTER		SHELLROCK ROAD	7909
BOLLARD	۲	BRICK PAVERS	
CONCRETE LIGHT POLE	¢	WATER	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
ELECTRIC BOX	E	METAL POST	Ø
GUY ANCHOR	\leftarrow	SIGN	
ASPHALT		IRRIGATION CONTROL BOX	ICB
BUILDING		VALVE	\bowtie
CONCRETE		WATER METER	М
		WOOD POWER POLE	¢

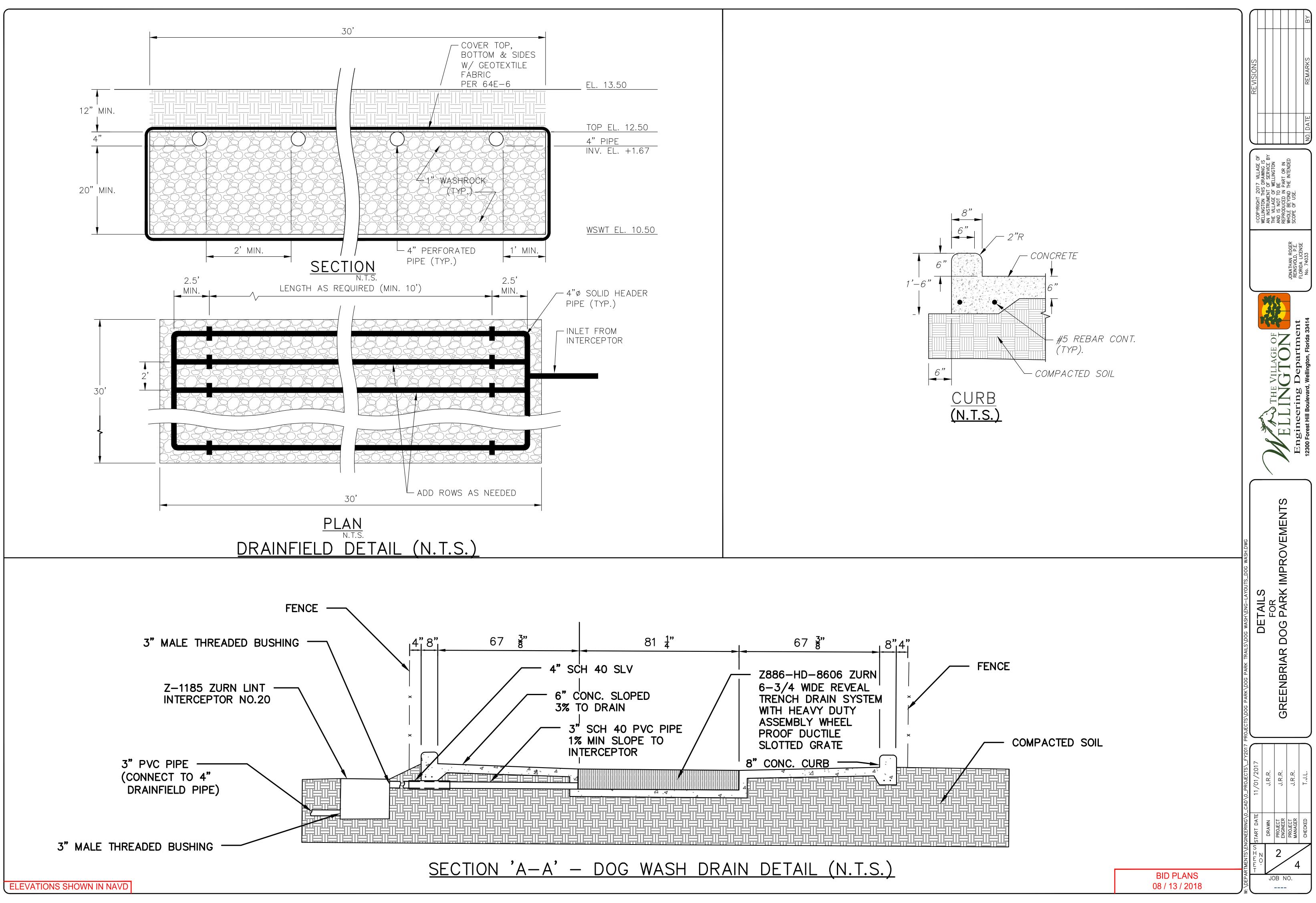
PROPOSED FEATURES LEGEND



- CONCRETE PROPOSED
- FINISHED GRADE ELEVATION TRAFFIC SIGN DRAINAGE FLOW DIRECTION
- BBREVIATIONS P.O.C.- POINT OF COMMENCEMENT P.O.B. - POINT OF BEGINNING P.B. – PLAT BOOK ORB - OFFICIAL RECORD BOOK D.B. – DEED BOOK PG. – PAGE R/W - RIGHT-OF-WAY R – RADIUS Δ – CENTRAL ANGLE A – ARC LENGTH U.E. – UTILITY EASEMENT D.E. – DRAINAGE EASEMENT (P) - PLAT DIMENSION (D) - DEED DIMENSION (M) - MEASURED DIMENSION - CENTERLINE IR - IRON ROD IR/C - IRON ROD WITH CAP AS NOTED C.M. – 4"x4" CONCRETE MONUMENT
- PRM PERMANENT REFERENCE MONUMENT
- N/D NAIL & DISK
- FND. FOUND NAD – NORTH AMERICAN DATUM
- LB LICENSED BUSINESS

- ELEV. or EL.– ELEVATION FPL – FLORIDA POWER & LIGHT NAVD – NORTH AMERICAN VERTICAL
- DATUM OF 1988
- CBS CONCRETE BLOCK STRUCTURE
- CONC CONCRETE CLF – CHAIN LINK FENCE
- WF WOOD FENCE
- N.T.S. NOT TO SCALE PVC – POLYVINYL CHLORIDE
- TYP. PULIVINYL CHLORI TYP. – TYPICAL
- UE UTILITY EASEMENT LAE – LIMITED ACCESS EASEMENT
- CB CATCH BASIN
- EP EDGE OF PAVEMENT EOW - EDGE OF WATER
- TOB TOP OF BANK
- OHE OVERHEAD POWER LINES WPP - WOOD POWER POLE
- RCP REINFORCED CONCRETE PIPE
- CMP CORRUGATED METAL PIPE P.U.D. – PLANNED URBAN DEVELOPMENT
- PARTMENTS/ENGINEERING/0_CAD/0_PROJECTS/_FY2017 PROJECTS/DOG PARK/DOG PARK TRAILS/DOG WASH/ENG-LAYOUTS_DOG WASH.DWG TITITIE UST TO TET 11/01/2017 OZ DRAWN J.R.R. DETAILS AND GENERAL NOTES DETAILS AND GENERAL NOTES DRAWN J.R.R. DETAILS AND GENERAL NOTES PROJECT J.R.R. PROJECT J.R.R. CREENBRIAR DOG PARK IMPROVEMENT

- Image: State of Service Properties of Wellington This Drawing IS
 Image: Service Properties PropeProperties Properties Properties Properties PropeProperties Propere
- S Engineering Department 12300 Forest Hill Boulevard, Wellington, Florida 33414





-B x B INLE -HEX HEAD SET SCREW-REMOVE SCREWS TO USE LIFT HANDLES, REPLACE SCREWS ONCE COVER IS IN PLACE AND HANDLES ARE REMOVED. **OUTLET**

Size No. of	Inlet/Outlet Size	Flow Rate G.P.M.	Approx. Wt. Lbs.			Dimensions	In Inches [m	m]	
Machines	in [mm]	[LPM]	[kg]	В	B	С	D	E	F
3	2 [51]	30 [113]	93 [42]	17 [432]	17 [432]	16-1/2 [419]	13-1/2 [343]	3-1/4 [82]	17-1/4 [438]
7	3 [76]	70 [265]	155 [70]	25 [635]	25 [635]	20 [508]	15-3/4 [400]	3-1/4 [82]	25-1/2 [648]
10	4 [102]	100 [378]	271 [123]	33 [838]	33 [838]	28 [711]	25 [635]	4 [102	34 [864]
20	4 [102]	200 [756]	404 [183]	40 [1016]	40 [1016]	35 [889]	32 [813]	4 [102]	41 [1041]
30	6 [152]	300 [1134]	654 [297]	45 [1143]	45 [1143]	40 [1016]	36 [914]	5 [127]	46 [1168]
40	6 [152]	400 [1512]	723 [328]	48 [1219]	48 [1219]	43 [1092]	39 [991]	5 [127]	49 [1245]
50	6 [152]	500 [1890]	911 [414]	52 [1321]	52 [1321]	47 [1194]	43 [1092]	5 [127]	53 [1346]

ENGINEERING SPECIFICATION: ZURNZ1185

Acid Resistant Coated interior and exterior fabricated steel lint interceptor, non-skid secured cover with removable lift handle, aluminum lint intercepting secondary screen assembly, and permanent primary straining baffle with 3/8" [10 mm] diameter perforated holes. Regularly furnished with high inlet and low outlet. Note: size #3 and #7 covers are not furnished with a lift handle.

OPTIONS (Check/specify appropriate options)

PREFIXES

Z Acid Resistant Coated Fabricated Steel*

ZS All Type 304 Fabricated Stainless Steel

SUFFIXES

Acid Resistant Coated interior and exterior fabricated steel extension section -E (Specify 'C' dimension required for recessed installation).

- ____-RS Aluminum Screen Replacement Assembly
- * Regularly furnished unless otherwise specified.

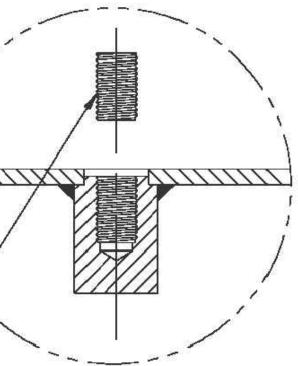
Zurn Industries, LLC Specification Drainage Operation	Rev.
1801 Pittsburgh Avenue, Erie, PA U.S.A. 16502 · Ph. 855-663-9876, Fax 814-454-7929	Date:
In Canada Zurn Industries Limited	C.N.
3544 Nashua Drive, Mississauga, Ontario L4V 1L2 · Ph. 905-405-8272, Fax 905-405-1292	Prod.
www.zurn.com	TTOU.

ELEVATIONS SHOWN IN NAVD

SPECIFICATION SHEET

TAG

Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice



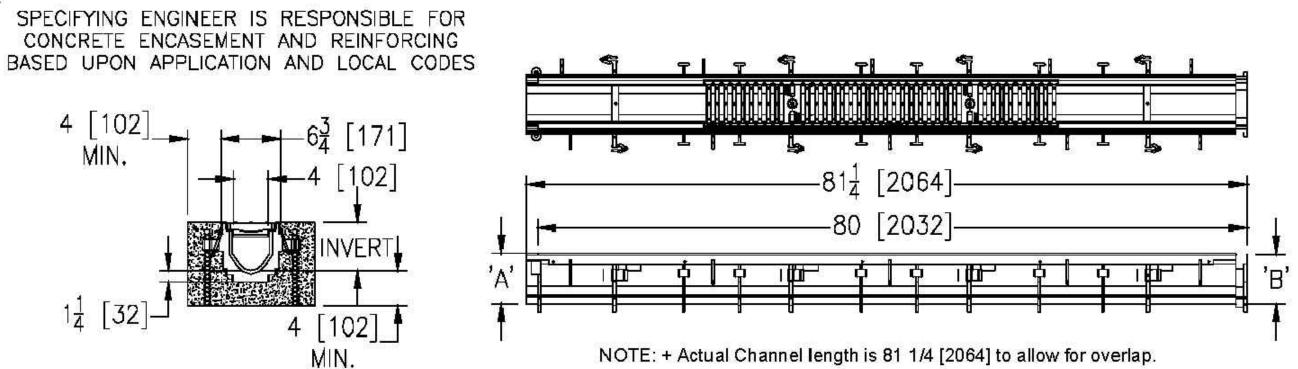
Н e: 7/14/16

No. 134798

d. | Dwg. No. Z1185



Z886-HD WITH HEAVY-DUTY FRAME ASSEMBLY



ENGINEERING SPECIFICATION: Zurn Z886-HD

Channels are 80" [2032 mm] long, 6-3/4" [171 mm] wide reveal and have a 4" [102 mm] throat. Modular channel sections are made of 0% water absorbent High Density Polyethylene (HDPE). Channels have a positive mechanical connection between channel sections that will not separate during the installation and mechanically lock into the concrete surround every 10" [254 mm]. Channels weigh less than 2.31 lbs.[1.05kg] per linear foot, have a smooth, 1-1/2" [38 mm] radiused self cleaning bottom with a Manning's coefficient of .009 and .75% or neutral 0% built in slope. Channels have rebar clips standard to secure trench in its final location. Channels provided with standard DGC grates that lock down to frame. Zurn 5.375" [137 mm] wide reveal Ductile Iron Slotted Grate conforming to ASTM specification A536-84, Grade 80-55-06. Ductile Iron grate is rated class C per the DIN EN1433 top load classifications. Supplied in 20" [508 mm] nominal lengths with 1/2" [13 mm] wide slots, and 3/4" [19 mm] bearing depth. Grate has an open area of 28.1 sq. in per ft. [59,463 sq. mm per meter]. The .105" [2.67 mm] thick Heavy-Duty Carbon Steel Frame Assembly conforms to ASTM specification A36 with 10 - 4" [102 mm] long concrete anchors per 80" [2032 mm]. Grate lockdown bars are to be integral to the frame. Frame supplied with powder coated finish. All welds must be performed by a certified welder per ASTM standard AWS D1.1. Frames produced in the U.S.A.

PREFIX OPTIONS (Check/specify appropriate options)

Six-foot, Eight-inch High Density Polyethylene (HDPE)*

SUFFIX OPTIONS (Check/specify appropriate options)

Outlet Adapters Add/Each

E1	Closed End Cap	U2	2 [51] No-Hub Bottom Outlet
E2	2 [51] No-Hub End Outlet	U3	3 [76] No-Hub Bottom Outlet
E3	3 [76] No-Hub End Outlet	U4	4 [102] No-Hub Bottom Outlet
E4	4 [102]No-Hub End Outlet	U6	6 [152] No-Hub Bottom Outlet
E6	6 [152]No-Hub End Outlet		

Frame Options

-CBF	Black Acid Resistant Coated Top Frame
LD	Light Duty Grates on Heavy Duty Frame
SW	Sidewall Extension - 9 [229] High
SW2	Sidewall Extension - 18 [457] High

Grate Options (Load Classifications are par DIN EN1422)

Grate Options (L	0ad Classifications are per DIN EN 1433)
-BDC	Black Acid Resistant Epoxy Coated Ductile Grate - Class C
-BDE	Black Acid Resistant Epoxy Coated Ductile Grate - Class E
BG	Galvanized Ductile Iron Bar Grate - Class C
DBG	Ductile Iron Cast Bar Grate - Class C
DC	Ductile Iron Solid Cover - Class C
DGC	Ductile Iron Slotted Grate - Class C *
DGE	Ductile Iron Slotted Grate - Class E
GDC	Galvanized Ductile Iron Slotted Grate - Class C
GDE	Galvanized Ductile Iron Slotted Grate - Class E
	Galvanized Heel-Proof Ductile Grate - Class E
HPDE	Heel-Proof Ductile Slotted Grate - Class E
RFGC	Reinforced Slotted Galvanized Grate – Class C
RFSC	Reinforced Slotted Stainless Steel Grate - Class C
RPGC	Reinforced Perforated Galvanized Grate - Class C
1 · · · · · · · · · · · · · · · · · · ·	Reinforced Perforated Galvanized Reverse Punch Grate - Class C
RPSC	Reinforced Perforated Stainless Steel Grate - Class C
RPSRC	Reinforced Perforated Stainless Steel Reverse Punch Grate - Class C

Miscellaneous Options

Joint Connector -JC ____ -VP Vandal-Proof Lockdown

* Regularly furnished unless otherwise specified.

Zurn Industries, LLC | Specification Drainage Operation

1801 Pittsburgh Avenue, Erie, PA U.S.A. 16502 · Ph. 855-663-9876, Fax 814-454-7929 In Canada | Zurn Industries Limited

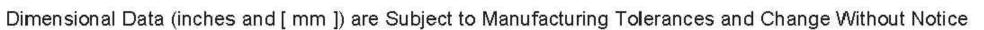
3544 Nashua Drive, Mississauga, Ontario L4V 1L2 · Ph. 905-405-8272, Fax 905-405-1292

www.zurn.com

6-3/4 [171] WIDE REVEAL TRENCH DRAIN SYSTEM

SPECIFICATION SHEET

TAG



Trench	'A'	'B'		Flow	
No.	Shallow Inv.	Deep Inv.	(cfs)	(gpm)	(lps)
8601	3.50 [89]	4.10 [104]	0.21	93	6
8602	4.10[104]	4.70 [119]	0.27	122	8
8603	4.70 [119]	5.30 [135]	0.34	152	10
8603N	5.30 [135]	5.30 [135]	.≂	 8	3. 3
8604	5.30 [135]	5.90 [150]	0.41	183	12
8605	5.90 [150]	6.50 [165]	0.48	214	13
8606	6.50 [165]	7.10 [180]	0.55	245	15
8606N	7.10 [180]	7.10 [180]		17-6)	14-54
8607	7.10 [180]	7.70 [196]	0.62	276	17
8608	7.70 [196]	8.30 [211]	0.69	308	19
8609	8.30 [211]	8.90 [226]	0.76	339	21
8610	8.90 [226]	9.50 [241]	0.83	371	23
8611	9.50 [241]	10.10 [257]	0.90	403	25
8612	10.10 [257]	10.70 [272]	0.97	435	27
8612N	10.70 [272]	10.70 [272]	<u>~</u>	-	11 11
8613	10.70 [272]	11.30 [287]	1.04	467	29
8614	11.30 [287]	11.90 [302]	1.11	498	31
8615	11.90 [302]	12.50 [318]	1.18	530	33

Decorative Grate Options (Load Classifications are per DIN EN1433) _____-SBG Stainless Steel Bar Grate - Class E

MADE in the U.S.A.

	-BDE-USA
	-DGC-USA
	-DGE-USA
	-GDC-USA
	-GDE-USA
	-GHPDE-US
С	-HPDE-USA
	-PPC

BlackAcid Resistant Epoxy Coated Ductile Grate - Class E Ductile Iron Slotted Grate - Class C Ductile Iron Slotted Grate - Class E Galvanized Ductile Slotted Grate - Class C Galvanized Ductile Slotted Grate - Class E SA Galvanized Heel-Proof Ductile Grate - Class E Heel-Proof Ductile Slotted Grate - Class E Plastic Perforated Grate - Class C

Miscellaneous Options ____ -DB

Rev. F Date: 1/26/2017 C.N. No. 136162 Prod. | Dwg. No. Z886-HD

Bottom Dome Strainer



BID PLANS 08 / 13 / 2018

