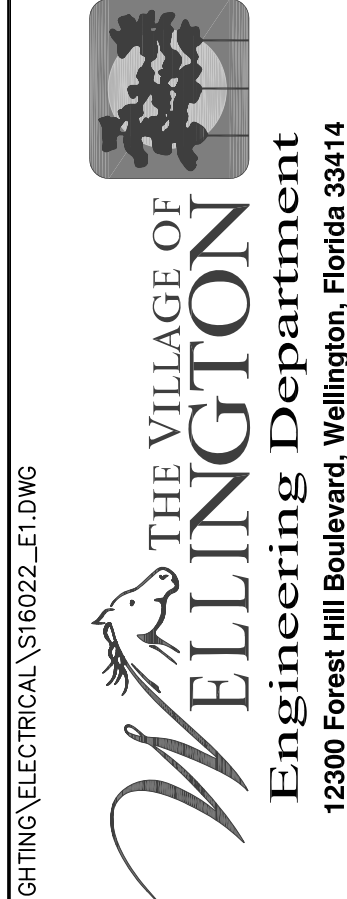


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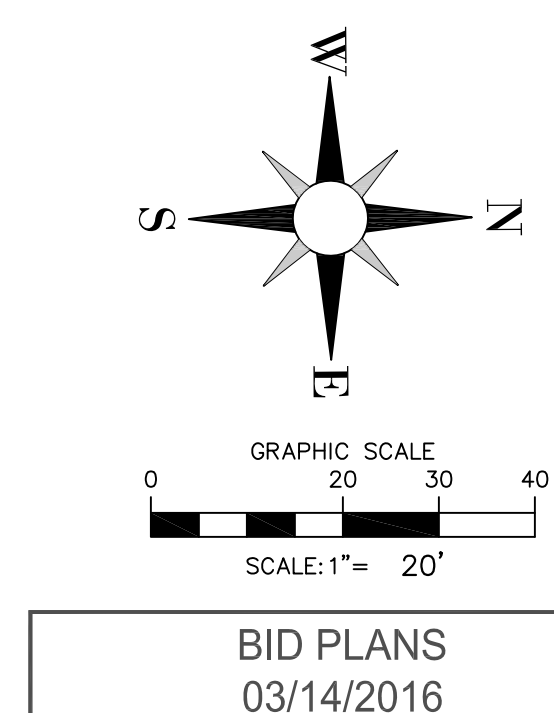
ELECTRICAL SITE PLAN
FOR
STRIPLING WAY / FAIRLANE FARMS ROAD
INTERSECTION IMPROVEMENT PROJECT



DATE 02/2016	DRAWN SPH	PROJECT LMS	CHECKED JRR	BY LMS
JOB NO. 005-16/DZ				



SEC Smith Engineering Consultants, Inc.
State Auth. #8228
2161 Palm Beach Lakes Blvd., Suite 312
West Palm Beach, FL 33409
(561) 616-3911 Fax (561) 616-3912
www.smithengineeringconsultants.com



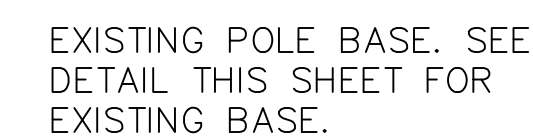
BID PLANS
03/14/2016



THEREFORE THE 60A MAIN SERVICE IS ADEQUATE



ALL POLE INSTALLATIONS SHALL BE SUITABLE FOR WIND LOAD IN ACCORDANCE WITH THE FLORIDA BUILDING CODE. THE CONTRACTOR SHALL INCLUDE WITH THE SHOP DRAWING SUBMITTAL, A POLE WIND LOADING CALCULATION SEALED BY A STRUCTURAL ENGINEER REGISTERED IN FLORIDA SHOWING THAT THE PROPOSED INSTALLATION WILL MEET THE WIND LOADING REQUIREMENT.



N.T.S.

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LIGHTING FIXTURE DETAIL

LIGHTING POLE DETAIL



- THE SCOPE OF WORK SHALL CONSIST PRIMARILY OF THE FOLLOWING:
 - A. PROVIDE AND INSTALL LIGHT POLES COMPLETE.
 - B. PROVIDE AND INSTALL SITE CONDUIT AND WIRING.
 - C. PROVIDE AND INSTALL SERVICE POINT 'A' COMPLETE.
2. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR TO INSTALL THE ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS. ITEMS NOT SHOWN BUT OBVIOUSLY NECESSARY FOR COMPLETION OF THE WORK SHALL BE INCLUDED.
3. THE INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2011 NATIONAL ELECTRICAL CODE, 2014 FLORIDA BUILDING CODE AND ALL LOCAL CODES.
4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, INSPECTIONS AND APPROVALS AND TO INCLUDE ALL FEES AS PART OF HIS BID IF NOT OTHERWISE NOTED. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE ENGINEER AND OWNER.
5. THE CONTRACTOR SHALL, BEFORE SUBMITTING HIS BID, VISIT THE SITE OF THE PROJECT AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS. NO ALLOWANCE WILL BE MADE FOR EXISTING CONDITIONS OR FAILURE OF THE CONTRACTOR TO OBSERVE THEM.
6. GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH NEC, ARTICLE 250. THE GROUNDING SYSTEM TEST SHALL NOT EXCEED A 48 HOUR SPAN DRY RESISTANCE OF 10 OHMS. ADDITIONAL GROUNDING TO MEET THIS REQUIREMENT SHALL BE INSTALLED AT NO EXTRA COST. GROUNDING AND BONDING CONNECTIONS SHALL NOT BE PAINTED. ALL GROUNDING CONNECTIONS SHALL BE EXOTHERMIC UNLESS SPECIFICALLY INDICATED OTHERWISE. AN EQUIPMENT GROUND WIRE SIZED PER NEC SHALL BE PULLED IN ALL ELECTRICAL CONDUITS, POWER AND CONTROL, WHETHER OR NOT INDICATED ON THE PLANS.
7. ALL EQUIPMENT AND MATERIAL SHALL BE NEW AND UNUSED AND U.L. LISTED.
8. THE CONTRACTOR IS RESPONSIBLE TO TEST ALL SYSTEMS INSTALLED OR MODIFIED UNDER THIS PROJECT AND REPAIR OR REPLACE ALL DEFECTIVE WORK TO THE SATISFACTION OF THE ENGINEER AND OWNER.
9. ALL EQUIPMENT FURNISHED AND INSTALLED BY THE CONTRACTOR SHALL BE GUARANTEED AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE.
10. COORDINATE ALL ELECTRICAL EQUIPMENT LOCATIONS AND VERIFY ALL OBSTRUCTIONS WITH ALL SUBCONTRACTORS AND EQUIPMENT SUPPLIERS PRIOR TO ANY INSTALLATION.
11. CONTRACTOR SHALL COORDINATE WITH FPL TO CONNECT TO EXISTING HANDHOLE. CONTRACTOR WILL BE RESPONSIBLE TO MEET ALL FPL INSTALLATION REQUIREMENTS. INCLUDE IN BID ALL COST FOR FPL AS PART OF THE INSTALLATION COST.
12. ALL EXCAVATIONS FOR CONDUITS AND HANDHOLES, NEAR EXISTING CONDUIT AND EQUIPMENT SHALL BE HAND EXCAVATED.
13. MINIMUM DEPTH FROM TOP OF CONDUITS TO FINISHED GRADE SHALL BE 24" UNLESS OTHERWISE NOTED.
14. PROVIDE CONDUIT DUCT SEAL AT ALL CONDUIT ENDS.
15. ALL CONDUCTORS SHALL BE COPPER, THHN/THWN, 600 VOLT RATED.
16. COLORED WARNING TAPE 6" WIDE SHALL BE INSTALLED 8" BELOW FINISHED GRADE DIRECTLY ABOVE ALL UNDERGROUND CONDUITS ACCORDING TO THE FOLLOWING SCHEDULE:
POWER: RED
17. CONTRACTOR SHALL RESTORE SIDEWALKS, ROADWAYS, SOD AND SPRINKLER SYSTEM PIPING TO MATCH EXISTING, AFTER THE COMPLETION OF THE CONDUIT AND PULLBOX INSTALLATION.
18. ALL ABOVE GRADE CONDUIT SHALL BE RIGID GALVANIZED STEEL. SCHEDULE 40 P.V.C. SHALL BE USED UNDERGROUND.
19. ALL CONDUITS SHALL HAVE A SEPARATE GREEN GROUND CONDUCTOR INSTALLED FOR GROUNDING, WHETHER OR NOT INDICATED ON THE PLANS.
20. THE SERVICE PANEL SHALL BE LOCKABLE BY PADLOCK AND FOUR KEYS PROVIDED TO THE OWNER.
21. SHOP DRAWINGS SHALL BE SUBMITTED FOR THE FOLLOWING EQUIPMENT: LIGHT POLES, PANELBOARD, CIRCUIT BREAKERS, CONDUIT AND WIRE.
22. CONTRACTOR SHALL, WITHIN 30 DAYS AFTER THE DATE OF THE SYSTEM ACCEPTANCE, PROVIDE TO THE BUILDING OWNER RECORD DRAWINGS OF THE ACTUAL INSTALLATION INCLUDING A SINGLE LINE DIAGRAM OF THE ELECTRICAL DISTRIBUTION SYSTEM AND RELATED FLOOR PLANS INDICATING THE LOCATION AND AREA SERVED FOR THE DISTRIBUTION.
23. CONTRACTOR SHALL PROVIDE TO THE OWNER AN OPERATING AND MAINTENANCE MANUAL IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION C405.7.4.2 OF THE 2014 FLORIDA BUILDING CODE - ENERGY CONSERVATION, INCLUDING ANY AMENDMENTS THERETO.

LARRY M. SMITH, P.E.
FLORIDA LICENSE
No. 45997

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ELECTRICAL NOTES AND DETAILS
FOR
STRIBLING WAY / FAIRLANE FARMS ROAD
INTERSECTION IMPROVEMENT PROJECT



 THE VILLAGE OF
ELLINGTON
Engineering Department
12300 Forest Hill Boulevard, Wellington, Florida 33414

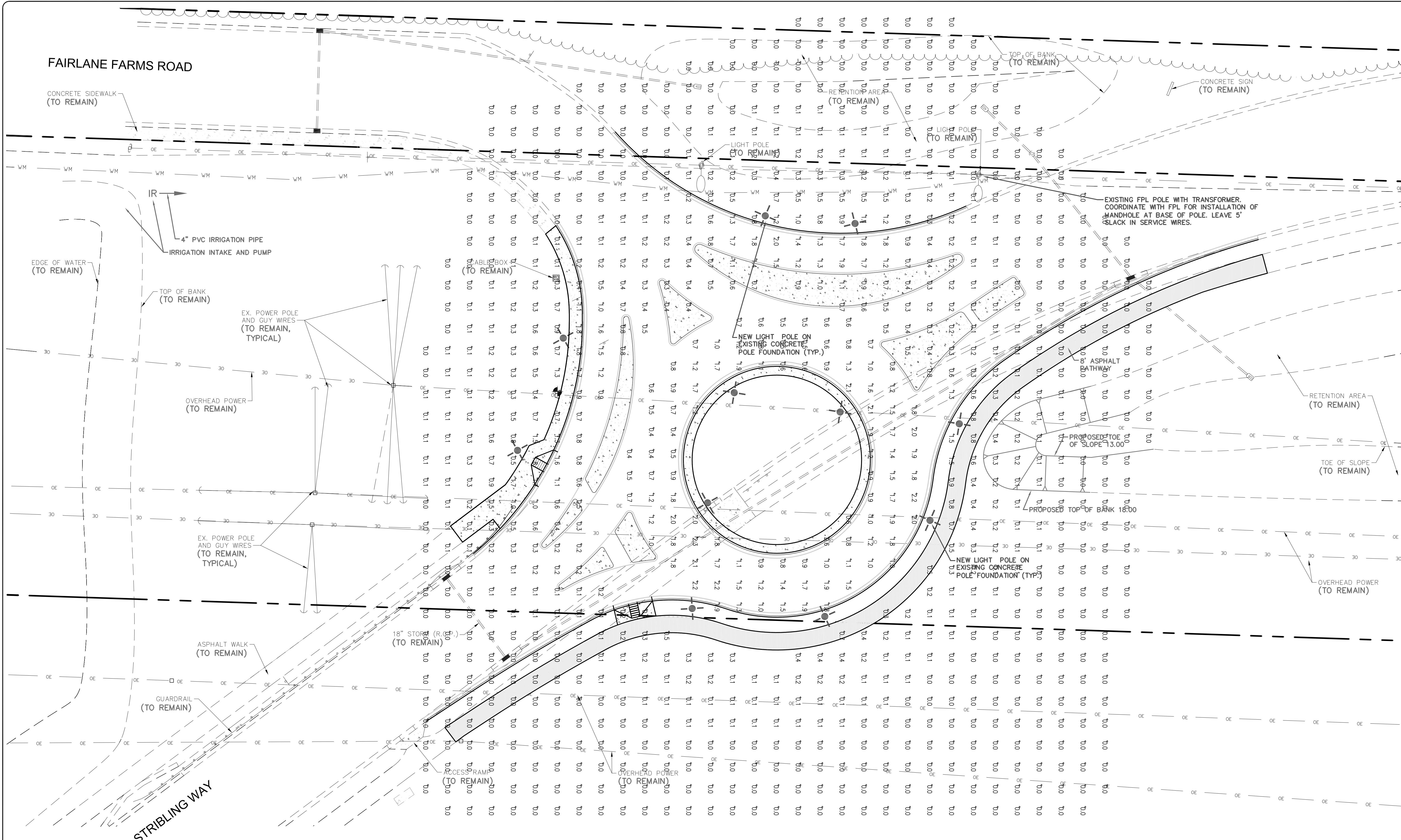
02/2016 E3 JOB NO. 005-16/DZ	DRAWN		SPH
	PROJECT ENGINEER		LMS
	PROJECT MANAGER		JRR
	CHECKED		LMS



**Smith Engineering
Consultants, Inc.**
State Auth. #8228

2161 Palm Beach Lakes Blvd., Suite 312
West Palm Beach, FL 33409
(561) 616-3911 Fax (561) 616-3912
www.smithengineeringconsultants.com

BID PLANS
03/14/2016

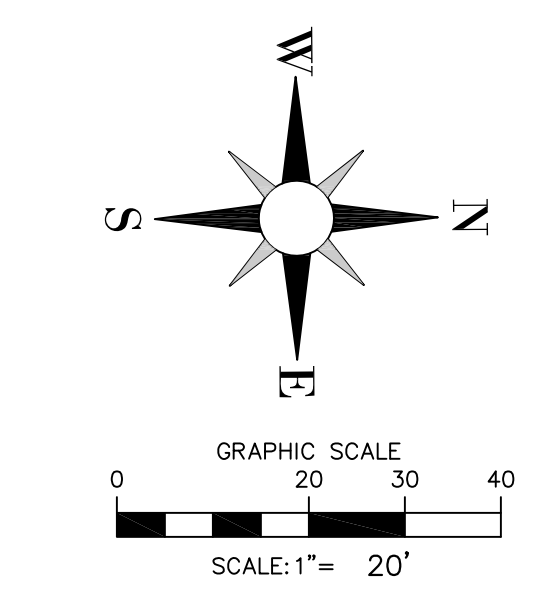


LIGHTING CALCULATIONS						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
ROUNDBOUT	+	1.2 fc	2.3 fc	0.4 fc	5.8:1	3.0:1
SPILL LIGHT	+	0.2 fc	2.0 fc	0.0 fc	N / A	N / A





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West Palm Beach, FL 33409
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www.smithengineeringconsultants.com




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NO.	DATE	DESCRIPTION	BY
1	05/04/16	LIGHT POLE LOCATION AND ELEC. CONDUIT	JRR

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FLORIDA LICENSE NO. 45957

PHOTOMETRIC PLAN FOR STRIBLING WAY / FAIRLANE FARMS ROAD INTERSECTION IMPROVEMENT PROJECT



THE VILLAGE OF WELLINGTON
Engineering Department
12300 Forest Hill Boulevard, Wellington, Florida 33414

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E4
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