

CITY OF DORAL

PLANS FOR PROPOSED
SIGNALIZATION

AT NW 82ND STREET AND NW 114TH AVENUE / NW 112TH COURT



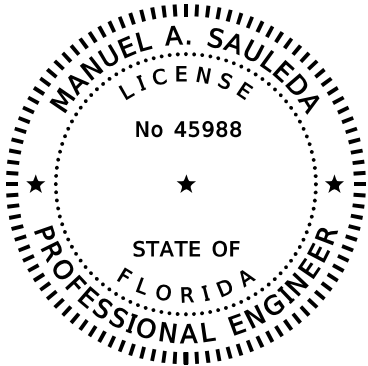
CITY COUNCIL

MAYOR
JUAN CARLOS BERMUDEZ
VICE MAYOR
CHRISTI FRAGA
COUNCILWOMAN
DIGNA CABRAL
COUNCILMAN
PETE CABRERA
COUNCILWOMAN
CLAUDIA MARIACA
PUBLIC WORKS DIRECTOR
CARLOS ARROYO
PROJECT MANAGER
EUGENE COLLINGS-BONFILL, P.E.

NOTE:
SCALE OF THESE PLANS MAY HAVE
CHANGED DUE TO REPRODUCTION

LENGTH OF PROJECT		
	LF	MILES
ROADWAY	331.00	0.063
EXCEPTIONS		
GROSS LENGTH OF PROJECT	331.00	0.063
EXCEPTIONS		
NET LENGTH OF JOB	331.00	0.063

ENGINEER OF RECORD:



MANUEL A. SAULEDA, P.E.
FLORIDA REGISTRATION P.E., NO. 45988

SHEET
NO.

T-1

INDEX OF SIGNALIZATION PLANS

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PROJECT LOCATION

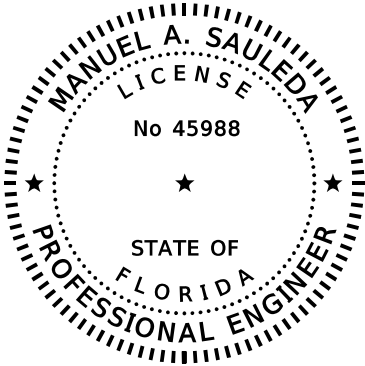
PLANS PREPARED FOR

CITY OF DORAL

BY

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH AND
ARE GOVERNED BY THE MIAMI-DADE COUNTY PUBLIC WORKS
DEPARTMENT STANDARDS AND SPECIFICATIONS PART 1, 2, AND 3.
THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENTS - HIGHWAY
DIVISION STANDARD DETAILS.

MANUEL A. SAULEDA, P.E.
P.E. NO.: 45988
8750 N.W. 36TH STREET, SUITE 360
MIAMI, FLORIDA 33178
TEL: (305) 503-9873; FAX: (305) 503-9882



THIS ITEM HAS BEEN DIGITALLY
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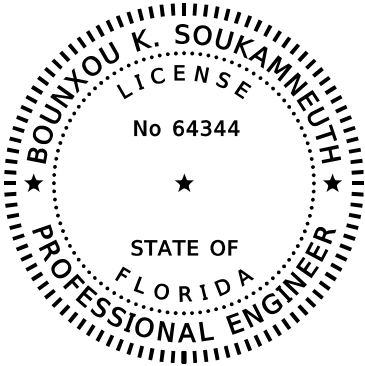
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MANUEL A. SAULEDA, P.E.
P.E. LICENSE NUMBER 45988
H. W. LOCHNER, INC.
CONSULTING ENGINEERS AND PLANNERS
8750 NW 36th STREET - SUITE 360
MIAMI, FLORIDA - 33178

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE
RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE
WITH RULE 61G15-23.004, F.A.C.

ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
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T-12	CONTROLLER CABINET INSTALLATION DETAIL
T-13	STEEL MAST ARM DETAIL
T-14	VIDEO DETECTOR INSTALLATION DETAIL



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BOUNXOU K. SOUKAMNEUTH
P.E. LICENSE NUMBER 64344
RIBBECK ENGINEERING, INC.
14335 SW 120 STREET, SUITE 205
MIAMI, FL 33186
CERTIFICATE OF AUTHORIZATION 27592

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE
RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE
WITH RULE 61G15-23.004, F.A.C.

ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
T-2	SIGNATURE SHEET
T-9	STANDARD MAST ARM ASSEMBLIES DATA TABLE

REVISIONS				MANUEL A. SAULEDA, P.E. P.E. LICENSE NUMBER 45988 H. W. LOCHNER, INC. CONSULTING ENGINEERS AND PLANNERS 8750 NW 36th STREET - SUITE 360 MIAMI, FLORIDA - 33178	SITE LOCATION NW 82nd ST AND NW 114th AVE	CITY OF DORAL 	SIGNATURE SHEET		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
									T-2

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			T - 5		T - 6															
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL		
110-4-10	REMOVAL OF EXISTING CONCRETE	SY			50.0												50.0		50.0	
285-709	OPTIONAL BASE , BASE GROUP 09	SY			45.6												45.6		45.6	
334-1-53	SUPERPAVE ASPHALTIC CONCRETE , TRAFFIC C , PG 76-22	TN			5.02												5.02		5.02	
337-7-83	ASPHALT CONCRETE FRICTION COURSE , TRAFFIC C , FC-12.5 , PG 76-22	TN			3.76												3.76		3.76	
520-1-10	CONCRETE CURB & GUTTER , TYPE F	LF			21.9												21.9		21.9	
522-1	CONCRETE SIDEWALK AND DRIVEWAYS , 4" THICK	SY			0.84												0.84		0.84	
630-2-12	CONDUIT , FURNISH & INSTALL , DIRECTIONAL BORE	LF	1063														1063		1063	
632-7-1	SIGNAL CABLE-NEW OR RECONSTRUCTED INTERSECTION , F & I	PI	1														1		1	
635-2-11	PULL & SPLICE BOX , F & I , 13" X 24" COVER SIZE	EA	30														30		30	
635-2-12	PULL & SPLICE BOX , F & I , 24" X 36" COVER SIZE	EA	1														1		1	
639-1-122	ELECTRICAL POWER SERVICE , F & I , UNDERGROUND , METER PURCHASE BY CONTRACTOR	AS	1														1		1	
639-2-1	ELECTRICAL SERVICE WIRE , F & I	LF	95														95		95	
641-2-12	PRESTRESSED CONCRETE POLE , F & I , TYPE P-II SERVICE POLE	EA	1														1		1	
646-1-11	ALUMINUM SIGNALS POLE , PEDESTAL	EA	6														6		6	
649-21-3	STEEL MAST ARM ASSEMBLY , F & I , SINGLE ARM 40'	EA	1														1		1	
649-21-6	STEEL MAST ARM ASSEMBLY , F & I , SINGLE ARM 50'	EA	2														2		2	
649-21-10	STEEL MAST ARM ASSEMBLY , F & I , SINGLE ARM 60'	EA	1														1		1	
650-1-14	TRAFFIC SIGNAL , F & I ALUMINUM , 3 SECTION , 1 WAY	AS	4														4		4	
650-1-18	TRAFFIC SIGNAL , F & I ALUMINUM , 5 SECTION STRAIGHT , 1 WAY	AS	4														4		4	
653-1-11	PEDESTRIAN SIGNAL , F & I LED COUNTDOWN , 1 WAY	AS	8														8		8	
660-4-11	VEHICLE DETECTION SYSTEM-VIDEO , F & I CABINET EQUIPMENT	EA	1														1		1	
660-4-12	VEHICLE DETECTION SYSTEM-VIDEO , F& I ABOVE GROUND EQUIPMENT	EA	4														4		4	
665-1-11	PEDESTRIAN DETECTOR , F & I , STANDARD	EA	8														8		8	
670-5-140	TRAFFIC CONTROLLER ASSEMBLY , F & I , 2070	AS	1														1		1	
700-1-11	SINGLE POST SIGN , F & I GROUND MOUNT , UP TO 12 ST	AS	4														4		4	
700-1-60	SINGLE POST SIGN REMOVAL	AS	6														6		6	
700-5-21	INTERNALLY ILLUMINATED SIGN , F & I OVERHEAD MOUNT , UP TO 12 SF	EA	4														4		4	
706-1-1	RAISED PAVEMENT MARKER , TYPE B WITHOUT FINAL SURFACE MARKINGS	EA	53														53		53	
711-11-125	THERMOPLASTIC , STANDARD , WHITE , SOLID , 24" STOP LINE AND CROSSWALK	LF	76														76		76	
711-11-224	THERMOPLASTIC , STANDARD , YELLOW , SOLID , 18" FOR DIAGONAL OR CHEVRON	GM			0.01												0.01		0.01	
711-11-241	THERMOPLASTIC , STANDARD , YELLOW , 2-4 DOTTED GUIDELINE / 6-10 DOTTED EXTENSION LINE , 6"	GM			0.02												0.02		0.02	
711-16-201	THERMOPLASTIC , STANDARD-OTHER SURFACES , YELLOW , SOLID , 6"	GM			0.06												0.06		0.06	

<p><u>PAY ITEM NOTES:</u></p> <p>635-2-11, 641-2-12, 646-1-11, 670-5-140, 649-21-3, 649-21.6, 649-21-10: INCLUDES THE COST OF PAVEMENT, CONCRETE AND SITE RESTORATION.</p> <p>630-2-12: INCLUDES OPEN TRENCH INSTALLATION UNDER PAVEMENT AND CONCRETE.</p> <p>670-5-140: INCLUDES DIGI WR21-L32B-DE1-SH/TRANSPORT WR21-LTE NORTH AMERICA GSM / AT&T (700MHZ/AWS), 2 ETHERNET, RS232, NO WI-FI ENTERPRISE SOFTWARE PACKAGE, EXTENDED TEMPERATURE, US POWER SUPPLY, ANTENNAS.</p>	
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REVISIONS				MANUEL A. SAULEDA, P.E. P.E. LICENSE NUMBER 45988 H. W. LOCHNER, INC. CONSULTING ENGINEERS AND PLANNERS 8750 NW 36th STREET - SUITE 360 MIAMI, FLORIDA - 33178	SITE LOCATION NW 82nd ST AND NW 114th AVE	CITY OF DORAL 	TABULATION OF QUANTITIES	SHEET NO.
	DESCRIPTION	DATE	DESCRIPTION					T-3

GENERAL NOTES

1. GENERAL NOTES ON THE PROJECT PLANS AND DRAWINGS ARE SOLELY TO AID AND ASSIST THE CONTRACTOR WITH THE FIELD OPERATIONS FOR THIS PROJECT. SAID GENERAL NOTES MAY NOT FULLY DESCRIBE ALL OF THE REQUIREMENTS FOR AN ITEM. THEREFORE, THE CONTRACTOR SHALL READ AND VERIFY THE CONTRACT DOCUMENTS, INCLUDING BUT NOT LIMITED TO THE PLANS, SPECIFICATIONS, GENERAL TERMS AND CONDITIONS, AND ANY SUPPLEMENTAL TERMS AND CONDITIONS, TO FULLY UNDERSTAND AND COMPLY WITH ALL THE REQUIREMENTS THEREIN.
2. ~~THE INFORMATION PROVIDED ON THE PLANS IS BASED ON THE BEST AVAILABLE INFORMATION AND SHOULD BE CONSIDERED APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING ANY AND ALL INVESTIGATIONS DEEMED NECESSARY TO CONFIRM OR VERIFY ACTUAL FIELD CONDITIONS PRIOR TO BIDDING. ANY IDENTIFIED DISCREPANCIES SHALL BE REPORTED TO THE CITY OF DORAL AND THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION COMMENCEMENT.~~
3. REFER TO THE SURVEY PREPARED BY PEGASUS LAND SURVEYORS, INC. FOR HORIZONTAL AND VERTICAL CONTROL. ALL ELEVATIONS SHOWN WITH THE PROJECT PLANS REFER TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 1929).
4. ALL PUBLIC LAND CORNERS AND PRIMARY NETWORK CONTROL SURVEY MONUMENTS ARE TO BE PROTECTED BY THE CONTRACTOR. CORNERS AND MONUMENTS WITHIN THE WORK ZONE AND IN DANGER OF BEING DAMAGED, DESTROYED OR COVERED SHALL BE PROPERLY REFERENCED BY A REGISTERED LAND SURVEYOR IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS OF THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS PRIOR TO THE BEGINNING OF WORK. UPON PROJECT COMPLETION THE CONTRACTOR SHALL RESTORE ALL SUCH CORNERS AND MONUMENTS AND SHALL FURNISH TO THE CITY OF DORAL PUBLIC WORKS DEPARTMENT A SIGNED AND SEALED COPY OF THE LAND SURVEYOR'S REFERENCE DRAWING.
5. ANY NGVD 1929 BENCHMARK MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED AND PROPERLY REFERENCED BY A REGISTERED LAND SURVEYOR IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS OF THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS, PRIOR TO BEGINNING WORK AT THE PROJECT SITE. IF ANY MONUMENT IS IN DANGER OF DAMAGE, THE PROJECT ENGINEER SHALL NOTIFY DENIS RIORDAN FLORIDA STATE GEODETIC ADVISOR NOAA/NOS/NGS TELEPHONE (240) 678-2107.
6. SECTION 5-3: CONFORMITY OF WORK WITH CONTRACT DOCUMENTS, WITHIN DIVISION I, OF THE FDOT STANDARD SPECIFICATIONS SHALL BE REVISED TO REQUIRE THAT ~~ALL FINISHED GRADES (FOR BASE AND SURFACE COURSES) VARY NO MORE THAN 0.05 FEET FROM THE GRADES SHOWN IN THE PLANS.~~
7. ~~ALL EXCESS MATERIAL AS DESIGNATED BY THE ENGINEER IS TO BE DISPOSED BY THE CONTRACTOR IN AREAS PROVIDED BY HIM ON A DAILY BASIS AND IN A LEGAL MANNER AT THE CONTRACTOR'S EXPENSE. ACCUMULATION OF DEBRIS OR STOCKPILING OF MATERIAL WITHIN THE PROJECT LIMITS WILL NOT BE ALLOWED. ALL EXCAVATED MATERIAL SHALL BE TESTED FOR CONTAMINANTS PRIOR TO OFF-SITE DISPOSAL.~~
8. THE CONTRACTOR SHALL SECURE THE WORK SITE TO PROTECT THE PUBLIC HEALTH AND WELFARE.
9. THE CONTRACTOR SHALL VERIFY, PHOTOGRAPH AND INVENTORY THE EXACT LOCATIONS OF EXISTING LANDSCAPING, STRUCTURES, PAVEMENT, FENCING OR OTHER FEATURES IN PROXIMITY TO THE WORK ZONE WHICH MAY BE IMPACTED. ANY EXISTING FEATURE OUTSIDE OF THE PROJECT LIMITS WHICH IS DAMAGED, EXPOSED OR IN ANY WAY DISTURBED BY THE CONSTRUCTION OF THIS PROJECT SHALL BE RESTORED PROMPTLY TO ITS ORIGINAL CONDITIONS BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY OF DORAL.
10. ~~THE CONTRACTOR SHALL RESTORE ALL EXISTING SODDED AREAS OF THE PROJECT WHICH ARE DISTURBED BY THE CONSTRUCTION ACTIVITIES TO THEIR EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE CITY OF DORAL.~~
11. ALL CONSTRUCTION LAYOUT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
12. THE CONTRACTOR SHALL PAINT VISIBLE STATION MARKS WITH STENCILED NUMBERS AS FOLLOWS:
A. WHERE THE EXISTING CURB IS "TO REMAIN", PAINTED ON THE FACE OF CURB FROM THE BEGINNING OF THE PROJECT.
B. AT NEW CURB LOCATIONS, PAINTED ON THE FACE OF CURB NO LATER THAN 72 HOURS FROM BEING POURED.
C. WHERE CURB DOES NOT EXIST AND IS NOT PROPOSED, THE CONTRACTOR SHALL MAINTAIN VISIBLE STATIONING WITH SURVEYING STAKES.
13. THE CONTRACTOR SHALL NOTIFY THE CITY AND ADJACENT PROPERTY OWNERS IN WRITING AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A PROPER STAGING AREA. THE LOCATION OF THIS STAGING AREA SHALL BE APPROVED BY THE CITY.
15. ANY MATERIAL TO BE STOCKPILED FOR PERIODS GREATER THAN 24 HOURS SHALL BE PROTECTED BY THE APPROPRIATE EROSION CONTROL DEVICES.
16. THE CONTRACTOR SHALL BE RESPONSIBLE TO SATISFY ALL REQUIREMENTS OF ANY REGULATORY AGENCY PERMIT IN REGARDS TO CONSTRUCTION ACTIVITIES AND RELATED CONDITIONS PRIOR TO THE START OF CONSTRUCTION.
17. THE CONTRACTOR SHALL MAINTAIN SAFE PEDESTRIAN AND VEHICULAR ACCESS TO ALL ADJACENT PROPERTIES. THE LEVEL OF ACCESS REQUIRED FOR THE ADJACENT PROPERTIES SHALL BE COORDINATED BY THE CONTRACTOR WITH THE CITY OF DORAL.
18. THE CONTRACTOR SHALL NOT ENCROACH INTO PRIVATE PROPERTY WITH PERSONNEL, MATERIAL, AND/OR EQUIPMENT. ALL PROPOSED WORK SHALL BE PERFORMED WITHIN THE LIMITS OF THE EXISTING STATE/LOCAL RIGHT-OF-WAY, AND ALL IMPROVEMENTS SHALL BE CONSTRUCTED AND INSTALLED WITHIN SAID LIMITS, UNLESS OTHERWISE DIRECTED BY THE CITY OF DORAL.
19. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IN WRITING IMMEDIATELY IF ANY CONFLICT ARISES DURING CONSTRUCTION FOR ANY OF THE IMPROVEMENTS SHOWN IN THE PROJECT PLANS.

20. THE CONTRACTOR SHALL USE A STREET SWEEPER (USING WATER) OR OTHER EQUIPMENT CAPABLE OF CONTROLLING AND REMOVING DUST. APPROVAL OF THE USE OF SUCH EQUIPMENT IS CONTINGENT UPON ITS DEMONSTRATED ABILITY TO DO THE WORK.
21. IF SHEETING, SHORING, OR DEWATERING (INCLUDING IF WELL POINTS ARE NECESSARY), THE CONTRACTOR MUST MONITOR AND CONTROL ALL WORK THAT MAY CAUSE CRACKING TO ANY ADJACENT BUILDING, STRUCTURE OR PROPERTY AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES CAUSED BY THESE OPERATIONS. ASSOCIATED COSTS FOR THIS WORK SHALL BE INCLUDED IN THE RELATED BID ITEM FOR THE TYPE OF WORK BEING DONE.
22. ~~THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A DEWATERING PERMIT IN THE EVENT IT IS REQUIRED. COST OF PERMIT AND DEWATERING ACTIVITY SHALL BE INCLUDED IN THE RELATED BID ITEM FOR THE WORK BEING DONE. UNDER NO CIRCUMSTANCE SHALL THE CONTRACTOR DISCHARGE DEWATERING EFFLUENT INTO THE EXISTING DRAINAGE SYSTEM.~~
23. ~~THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) AN NPDES NOI AND OBTAINING AN NPDES CONSTRUCTION GENERAL PERMIT (CGP).~~
24. THE CONTRACTOR SHALL REMOVE ALL SEDIMENT BARRIERS AND ROCK BAGS AT THE COMPLETION OF THE PROJECT.
25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REMOVAL OF STORMWATER FROM THE ROADWAY WITHIN THE PROJECT LIMITS AND BE IN COMPLIANCE WITH NPDES AND OTHER PERMIT REQUIREMENTS. PROVISIONS SHALL BE SUBMITTED TO THE CITY OF DORAL FOR APPROVAL BEFORE USE. THIS COST SHALL BE INCLUDED IN THE MAINTENANCE OF TRAFFIC PAY ITEM.
26. SAW-CUTTING OF THE EXISTING SIDEWALKS SHALL BE MADE ONLY AT THE NEAREST FLAG JOINTS.
27. ~~THE CONTRACTOR SHALL ASSIST THE CITY WITH THE HANDLING OF PUBLIC INFORMATION MATERIALS, INCLUDING CITIZEN NOTIFICATION LETTERS AND PROJECT CONSTRUCTION SIGNS, PRIOR TO THE START OF EACH SIGNIFICANT PHASE OF CONSTRUCTION. COST OF THIS WORK SHALL BE INCLUDED IN THE MAINTENANCE OF TRAFFIC PAY ITEM.~~
28. ~~CLEARING & GRUBBING, GRADING, AND OTHER INCIDENTAL WORK NECESSARY FOR HARMONIZATION OUTSIDE OF THE R/W SHALL BE INCLUDED IN RELATED BID ITEMS.~~
29. THE CONTRACTOR SHALL TAKE PHOTOS OF THE EXISTING PAVEMENT MARKINGS PRIOR TO REMOVING THEM. ALL EXISTING PAVEMENT MARKINGS REMOVED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR. ALL EXISTING PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED PAVEMENT MARKINGS SHALL BE REMOVED.
30. THE CONTRACTOR SHALL INSTALL A PREFORMED EXPANSION JOINT WHEN PROPOSED SIDEWALK IMPROVEMENTS ARE IMMEDIATELY ADJACENT TO AN EXISTING CONCRETE SLAB AND/OR BUILDING.
31. ALL CONCRETE SHALL DEVELOP A MINIMUM OF 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS, UNLESS OTHERWISE NOTED.
32. WHERE TRENCHING EXCEEDS 5 FEET IN DEPTH, THE EXCAVATION SHALL COMPLY WITH THE TRENCH SAFETY ACT AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION'S (OSHA) TRENCH EXCAVATION SAFETY STANDARDS, 29 C.F.R. 1926.650 SUBPART B, INCLUDING ALL SUBSEQUENT REVISIONS OR UPDATES TO THESE STANDARDS AS ADOPTED BY THE DEPARTMENT OF LABOR AND EMPLOYMENT SECURITY (DLES). THE CONTRACTOR SHALL CONSIDER ALL AVAILABLE GEOTECHNICAL INFORMATION IN HIS DESIGN OF THE TRENCH EXCAVATION SAFETY SYSTEM.
33. NO TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING INACTIVE CONSTRUCTION HOURS WITHOUT THE WRITTEN PERMISSION OF THE CITY OF DORAL.
34. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER AND IN STRICT COMPLIANCE WITH ALL THE REQUIREMENTS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, AS WELL AS, ALL STATE AND LOCAL SAFETY AND HEALTH REGULATIONS.
35. ~~THE CONTRACTOR SHOULD TAKE SPECIAL NOTE OF SOIL CONDITIONS THROUGHOUT THIS PROJECT. ANY SPECIAL SHORING, SHEETING, OR OTHER PROCEDURES NECESSARY TO PROTECT ADJACENT PROPERTIES (PUBLIC OR PRIVATE) OR EXISTING UTILITIES DURING EXCAVATION OR BACKFILLING ACTIVITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.~~
36. THE CONTRACTOR SHALL BE ADVISED THAT OTHER PROJECTS MAY BE UNDER CONSTRUCTION CONCURRENTLY WITH THIS PROJECT AND THAT COORDINATION EFFORTS MAY BE NECESSARY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE CONSTRUCTION SCHEDULE AND INCLUDING THE AMOUNT OF COORDINATION WHICH MAY BE REQUIRED. ALL ASSOCIATED COSTS SHALL BE INCLUDED WITHIN THE CONTRACTOR'S BID.
37. ~~REPLACE COMPLETE SIDEWALK FLAGS (NO PERMANENT PATCHING ALLOWED) PER FDOT INDEX 304.~~
38. ~~CONTRACTOR SHALL MAINTAIN MINIMUM PEDESTRIAN ACCESS ROUTE OF 48".~~

SURVEYOR'S NOTES

39. ELEVATIONS SHOWN ARE EXPRESSED IN US FEET AND REFER TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).
40. BENCH MARK #M-105 LOCATOR NO. 3051 SW; ELEVATION IS 7.83 FEET OF N.G.V.D. OF 1929
41. BEARINGS AND COORDINATES ARE RELATIVE TO THE STATE PLANE COORDINATES, FLORIDA EAST ZONE NORTH AMERICAN DATUM (NAD 83/1990 HARN) ADJUSTMENTS.
42. FIRM MAP NUMBER 12086C0257L, COMMUNITY 120041, PANEL 0257, SUFFIX L, FLOOD ZONE "X", EL. N/A FEET. MAP REVISED 09/11/2009.

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DATE	DESCRIPTION	DATE	DESCRIPTION					T-4

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43. IF BUS STOPS OR TROLLEY SERVICE IS IMPACTED, CONTACT MDT AND CITY OF DORAL TROLLEY MANAGER A WEEK PRIOR TO LANE CLOSURE.

44. ALL RESTORATION AND CLEAN UP MUST BE COMPLETED PRIOR TO CALLING FOR FINAL INSPECTIONS.

DRAINAGE NOTES

45. EXISTING DRAINAGE STRUCTURES WITHIN THE LIMITS OF CONSTRUCTION SHALL REMAIN UNLESS OTHERWISE NOTED. STRUCTURES WHICH ARE NOTED AS TO BE REMOVED SHALL BE INSPECTED FOR UNFORESEEN ACTIVE CONNECTIONS (I.E. RAINWATER LEADERS) PRIOR TO REMOVAL. IN THE EVENT THAT ANY EXISTING CONNECTIONS ARE OBSERVED WHICH MUST REMAIN ACTIVE, THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD PRIOR TO PROCEEDING WITH THE ACTIVITY.

46. ~~PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL INSPECT ALL EXISTING DRAINAGE STRUCTURES WHICH ARE TO REMAIN AND NOTIFY THE CITY OF DORAL OF ANY STRUCTURAL DEFICIENCIES OBSERVED.~~

47. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EXISTING AND NEW DRAINAGE STRUCTURES/PIPES CLEAN AND FREE OF DEBRIS THROUGHOUT THE PROJECT DURATION. PRIOR TO THE SUBSTANTIAL COMPLETION WALKTHROUGH THE CONTRACTOR SHALL ENSURE THAT ALL EXISTING AND NEW DRAINAGE STRUCTURES/PIPE HAVE BEEN THOROUGHLY CLEANED OF ALL DEBRIS, SILT, SEDIMENT, VEGETATION, MILLING MATERIAL, ETC.

UTILITY NOTES

48. ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED. ALL EXISTING UTILITIES SHALL BE MAINTAINED IN SERVICE DURING CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE UTILITY OWNER.

49. ~~THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD OR UNDERGROUND POWER LINES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH FPL ON ANY WORK IN THE VICINITY OF OVERHEAD OR UNDERGROUND POWER LINES.~~ PROPER CLEARANCES SHALL BE VERIFIED PRIOR TO WORKING WITHIN THE VICINITY OF POWER LINES.

50. TWO FULL BUSINESS DAYS PRIOR TO DIGGING THE CONTRACTOR SHALL CALL SUNSHINE 811 AND THE UTILITY OWNER AND REQUEST UTILITY LOCATIONS. A CONTRACTOR'S REPRESENTATIVE MUST BE PRESENT WHEN UTILITY COMPANIES LOCATE THEIR FACILITIES.

51. TWO FULL BUSINESS DAYS PRIOR TO DIGGING THE CONTRACTOR SHALL NOTIFY THE CITY OF DORAL FOR COORDINATION PURPOSES.

52. ~~THE CONTRACTOR IS ADVISED THAT PROPERTIES ADJACENT TO THE PROJECT HAVE ELECTRIC, TELEPHONE, GAS, WATER AND/OR SEWER SERVICE LATERALS WHICH MAY NOT BE SHOWN IN THE PLANS. THE CONTRACTOR MUST REQUEST THE LOCATION OF THESE LATERAL SERVICES FROM THE UTILITY COMPANIES. THE COST OF EXCAVATING, INSTALLING, BACKFILLING, AND COMPACTING AROUND THESE LATERAL SERVICES SHALL BE INCLUDED IN THE COST OF THE RELATED BID ITEM FOR THE WORK BEING DONE.~~

53. THE LOCATIONS AND SIZES OF UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND REVIEW OF CONSTRUCTION, OPERATING, OR AS-BUILT PLANS SUPPLIED BY THE VARIOUS UTILITY COMPANIES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE LOCATIONS HAVE NOT BEEN VERIFIED BY THE ENGINEER AND ARE OFFERED ONLY AS EVIDENCE OF THEIR PRESENCE. ~~THE CONTRACTOR SHALL PERFORM SUBSURFACE UTILITY EXPLORATION/VVH TO VERIFY VERTICAL AND HORIZONTAL LOCATION OF ALL KNOWN UTILITIES PRIOR TO ANY UNDERGROUND WORK. ANY AND ALL CONFLICTS OF EXISTING UTILITIES WITH PROPOSED IMPROVEMENTS SHALL BE RESOLVED BY THE ENGINEER OF RECORD AND THE CITY OF DORAL. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.~~ THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES DUE TO CONTRACTOR'S CONSTRUCTION OPERATIONS. COST OF ALL UTILITY EXPLORATION AND VERIFICATION IS INCLUDED UNDER THE APPROPRIATE PAY ITEMS.

54. THE CONTRACTOR SHALL PROVIDE UNDERGROUND UTILITY OWNERS AND THE CITY OF DORAL WITH A SEVEN-DAY ADVANCE NOTICE OF ANY CONFLICT WITH PROPOSED CONSTRUCTION. THIS NOTIFICATION SHALL PROVIDE SURVEY INFORMATION ABOUT EXISTING UTILITY ALIGNMENT, GRADES AND POSSIBLE CONFLICTS. PAYMENT FOR PRE-TRENCHING, SURVEYING AND BACK-FILLING SHALL BE INCLUDED IN THE COST OF THE RELATED BID ITEM FOR THE WORK BEING DONE.

55. THE CONTRACTOR SHALL MAINTAIN WATER, SEWER, ELECTRICAL, GAS AND COMMUNICATION SERVICES TO ALL ADJACENT PROPERTIES AS APPLICABLE. ANY INTERRUPTIONS IN SERVICE SHALL BE RESTORED PRIOR TO THE END OF WORKING HOURS. PRIOR NOTICE OF THE IMPENDING INTERRUPTION SHALL BE GIVEN TO THE RESPECTIVE UTILITY OWNER, AS WELL AS, THE PROPERTY OWNERS AFFECTED.

56. ~~THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL UTILITY MARKINGS ONCE THE WORK IS COMPLETED. THE CONTRACTOR SHALL USE SPECIAL CARE WHEN REMOVING THE UTILITY MARKINGS. THE REMOVAL METHOD NEEDS TO BE SUCH THAT IT DOES NOT DAMAGE THE SURFACES OF THE WORK ALREADY IN PLACE. IF HYDRO-BLASTING OLDER ASPHALT PAVEMENT, CARE NEEDS TO BE TAKEN TO NOT DISCOLOR THE ASPHALT OR POLISH THE AGGREGATE. IF THE REMOVALS ARE ON OLDER CONCRETE SURFACES, THE ENTIRE SURFACE OF A PANEL OR SECTION NEEDS TO BE BLASTED TO SHOW UNIFORM COLOR THROUGHOUT THAT SAME PANEL OR SECTION. IN ANY CASE (ASPHALT OR CONCRETE SURFACE), THE METHOD NEEDS TO BE SUCH THAT A SLICK SURFACE IS NOT LEFT BEHIND. FINAL PAYMENT TO THE CONTRACTOR MAY BE WITHHELD UNTIL THE UTILITY MARKS ARE PROPERLY REMOVED.~~

57. KNOWN UTILITY COMPANIES WITHIN THE PROJECT LIMITS INCLUDE, BUT ARE NOT LIMITED TO:

COMPANY	CONTACT	TELEPHONE NUMBERS
AT&T	JOSE SUAREZ	(305) 222-8247
COMCAST CABLE	LEONARD MAXWELL-NEWBOLD	(754) 221-1254
DADE COUNTY PUBLIC WORKS AND TRAFFIC	LISA PRIDEMORE	(786) 345-0991
FPL	OMAR VICHOT	(305) 599-4078
HOTWIRE COMMUNICATIONS	WALTER SANCHO-DAVILA	(954) 699-0900
MIAMI DADE WATER & SEWER	NELSON MARTINEZ	(786) 552-4425

MOT / PERMITS NOTES

58. CONTRACTOR SHALL PROVIDE MOT PLANS.

59. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM CITY OF DORAL AND MIAMI-DADE COUNTY.

ENVIRONMENTAL NOTES

60. IF EVIDENCE OF POTENTIAL CONTAMINATION IS DETECTED DURING EXCAVATION, THE CONTRACTOR SHALL STOP ALL EXCAVATION WORK AND NOTIFY THE CITY OF DORAL. EVIDENCE OF POTENTIAL CONTAMINATION MAY INCLUDE ANY OF THE FOLLOWING: 1. ODOR 2. SOLID WASTE DEBRIS 3. SHEEN ON THE GROUNDWATER 4. STAINED OR SATURATED SOIL (SOIL THAT CONTAINS PRODUCT THAT DRAINS WHEN IT IS HANDLED OR CREATES STREAKS ON EXCAVATION TOOLS) OR 5. FREE FLOATING PRODUCT ON THE GROUNDWATER (OIL, DIESEL, GASOLINE, ETC.). MATERIAL THAT HAS ODOR, IS STAINED, OR IS SATURATED MUST BE SEGREGATED ON AN IMPERMEABLE SURFACE FOR APPROPRIATE FUTURE DISPOSAL.

61. ANY KNOWN OR SUSPECTED HAZARDOUS MATERIAL(S) FOUND ON THE PROJECT SITE BY THE CONTRACTOR SHALL BE IMMEDIATELY REPORTED TO THE CITY OF DORAL. THE CONTRACTOR SHALL TREAT/DISPOSE OF SUCH MATERIAL APPROPRIATELY AS REQUIRED BY ALL REGULATORY REQUIREMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR INVESTIGATION, IDENTIFICATION, AND REMEDIATION OF THE HAZARDOUS MATERIAL. THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE PERMIT REQUIREMENTS FOR TREATMENT/DISPOSAL OF ANY SUCH MATERIAL(S). THIS COST SHALL BE INCLUDED IN THE RELATED BID ITEM FOR THE WORK BEING DONE.

62. THE CONTRACTOR SHALL NOT REMOVE, RELOCATE OR PRUNE ANY TREES WITHOUT PRIOR APPROVAL FROM THE CITY OF DORAL. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM THE CITY OF DORAL PRIOR TO ANY TREE REMOVAL/RELOCATION.

63. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER IMPLEMENTATION OF THE "STANDARD PROTECTION MEASURES FOR THE EASTERN INDIGO SNAKE" (USFWS, 2013) THROUGHOUT THE ENTIRE DURATION OF CONSTRUCTION ACTIVITY.

PRE-CONSTRUCTION RESPONSIBILITIES

64. ~~PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND THE RECEIPT OF THE "NOTICE TO PROCEED", THE CONTRACTOR SHALL CONTACT THE CITY OF DORAL PUBLIC WORKS DEPARTMENT AND ARRANGE A PRE-CONSTRUCTION CONFERENCE TO INCLUDE THE ENGINEER OF RECORD. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE AND BE PREPARED TO DISCUSS ANY CONCERNS OR COORDINATION EFFORTS AND REQUIREMENTS WITH THE PARTIES INVOLVED.~~

65. ~~THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE CITY OF DORAL PUBLIC WORKS DEPARTMENT A STORM WATER POLLUTION PREVENTION PLAN ACCORDING TO THE LATEST FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL AND THE LATEST FDOT SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. THE CONTRACTOR SHALL IMPLEMENT THE PLAN PRIOR AND DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.~~

66. ~~THE CONTRACTOR SHALL CONTACT FPL 3 WEEKS IN ADVANCE OF THE START OF CONSTRUCTION TO COORDINATE LOCATION OF THE FPL SERVICE POINT SHOWN ON PLAN. CONTACT MR. OMAR VICHOT AT 305-599-4078, EMAIL: OMAR.VICHOT@FPL.COM~~

67. ~~THE CONTRACTOR SHALL CONTACT AT&T 3 WEEKS IN ADVANCE OF THE START OF CONSTRUCTION TO COORDINATE LOCATION OF THE AT&T SERVICE POINT SHOWN ON PLAN. CONTACT MR. WILLIAM CHUNG AT 305-222-8234, EMAIL: WC0915@ATT.COM~~

68. ~~THE CONTRACTOR SHALL PERFORM GEOTECHNICAL CORE BORINGS AT THE SW AND NW CORNER OF THE INTERSECTION WITHIN 2 WEEKS OF NTP. THE CONTRACTOR SHALL PROVIDE THE GEOTECHNICAL REPORT TO THE CITY FOR SITE CONDITION VERIFICATION AT THE PROPOSED MAST ARMS. CONSTRCTOR MAY NOT COMMENCE WORK ON THE SIGNAL UNTIL APPROVAL BY THE EOR.~~

PROJECT RECORD DOCUMENTS

69. DURING THE DAILY PROGRESS OF THE JOB, THE CONTRACTOR SHALL ACCURATELY RECORD THE EXACT LOCATION, LENGTH, AND ELEVATION OF ALL PROPOSED IMPROVEMENTS ON HIS SET OF CONSTRUCTION DRAWINGS.

70. UPON COMPLETION OF CONSTRUCTION AND PRIOR TO FINAL PAYMENT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER ONE COMPLETE SET OF ALL "AS-BUILT" CONSTRUCTION CHANGES AND DIMENSIONS.

71. ALL "AS-BUILT" INFORMATION AND ELEVATIONS SHALL BE CERTIFIED BY A FLORIDA REGISTERED LAND SURVEYOR AND SHOWN ON THE RECORD DRAWINGS. ALL FINAL MEASUREMENTS SHALL BE SUPPLEMENTED IN THE FORM OF FIELD NOTES. TWO (2) SETS OF AS-BUILT HARD COPIES SHALL BE SUBMITTED TO THE CITY OF DORAL UPON COMPLETION, ALONG WITH A CD-ROM CONTAINING A DIGITAL COPY IN PDF AND CAD FORMATS.

72. AS-BUILTS SHALL UTILIZE THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 1929).

SIGNALIZATION NOTES

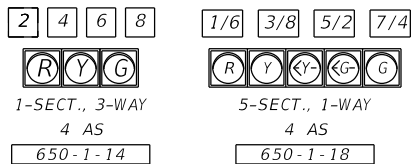
73. THE SIGNAL MAINTAINING AGENCY IS:
MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS (DTPW), TRAFFIC SIGNALS & SIGNS DIVISION.
THE CONTACT TELEPHONE NUMBER FOR THE DTPW, TRAFFIC SIGNALS & DIVISION, IS: (305) 592-3470.

74. ALL ITEMS (BOXES, LIDS, FASTENERS) IN THE SIDEWALK MUST BE FLUSH AND ADA COMPLIANT.

REVISIONS				MANUEL A. SAULEDA, P.E. P.E. LICENSE NUMBER 45988 H. W. LOCHNER, INC. CONSULTING ENGINEERS AND PLANNERS 8750 NW 36th STREET - SUITE 360 MIAMI, FLORIDA - 33178	SITE LOCATION NW 82nd ST AND NW 114th AVE	CITY OF DORAL 	GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION					T-5

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SIGNAL HEAD DETAILS

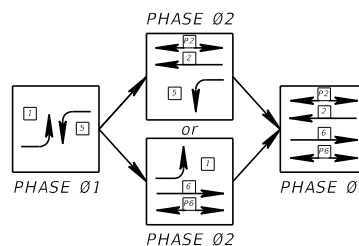
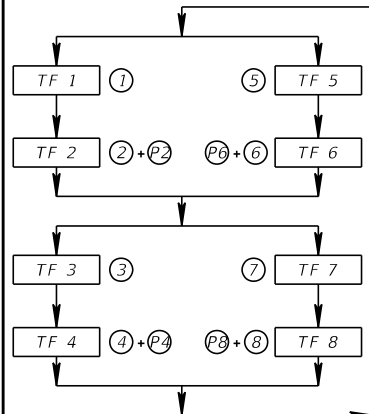


P2 P4 P6 P8



PED. SIGNAL
COUNT-DOWN
1-SECT., 1-WAY
8 AS
653-1-11

SOP



VIDEO DETECTION ZONES			
VIDEO CAMERA	MOVEMENTS	ZONE	
V1	7, 4	VD 7	VD 4.1
		VD 4.2	
V2	1, 6	VD 1	VD 6.1
		VD 6.2	
V3	3, 8	VD 3	VD 8.1
		VD 8.2	
V4	5, 2	VD 5	VD 2.1
		VD 2.2	

SIGNAL OPERATION

- MAJOR STREET: NW 114 AV/NW 112 CT
MINOR STREET: NW 82 ST
- SIGNAL OPERATION PLAN (S.O.P.) AS SHOWN.
- FLASHING OPERATIONS:
MOVEMENTS 2 & 6 YELLOW
MOVEMENTS 4 AND 8 RED

SIGN DETAILS



SIGN (72"X24")
700-5-21 1 EA



SIGN (72"X24")
700-5-21 2 EA



SIGN (72"X24")
700-5-21 1 EA

(SEE GUIDE SIGN WORKSHEET
FOR INTERNALLY ILLUMINATED SIGN DETAILS)



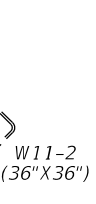
R10-3E
9' X 15"
5 EA



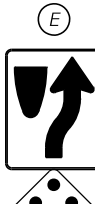
R10-3E
9' X 15"
(MODIFIED)
3 EA



W11-2
(36"X36")



W16-7
(24"X12")



R4-7
(24"X30")



OM1-1
(18"X18")



R1-2
(36"X36"X36")

EXISTING SIGN
TO REMAIN

CONTROLLER TIMINGS

TIMING FUNCTION			
MOVEMENT NUMBER			
TIMING FUNCTION	MINIMUM GREEN		
	EXTENSION		
	MAXIMUM GREEN 1		
	MAXIMUM GREEN 2		
	YELLOW CLEARANCE		
	ALL RED		
	PEDESTRIAN WALK		
	PED. CLEARANCE		
RECALL			

LEGEND



V-# VIDEO DETECTOR



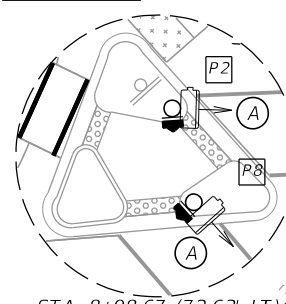
VD-# OPTICAL DETECTION ZONE



PUSH BUTTON



PEDESTRIAN MOVEMENT



STA. 8+98.67 (72.63' LT)
W11-2, W16-7, (EXIST
SIGN TO BE REMOVED)
700-1-60 1 AS

PROPOSED MAST ARM
STA. 8+99.66 (69.69' LT)
630-2-12 34 LF (3 RUNS [1
SIGNAL, 2 SPARES])
635-2-11 3 EA
649-21-10 1 EA
660-4-12 1 EA

R1-1, (EXIST SIGN
TO BE REMOVED)
700-1-60 1 AS

STA. 9+05.00 (5.00' LT)
R1-1, (EXIST SIGN
TO BE REMOVED)
700-1-60 1 AS

ALUMINUM PEDESTAL
STA. 9+78.26 (38.85' RT)
630-2-12 10 LF
635-2-11 1 EA
646-1-11 1 EA
665-1-11 1 AS

(2 RUNS [2 SIGNALS])
630-2-12 35 LF

PROPOSED MAST ARM
STA. 10+10.57 (58.15' RT)
630-2-12 10 LF (3 RUNS [1
SIGNAL, 2 SPARES])
635-2-11 3 EA
649-21-3 1 EA
660-4-12 1 EA
665-1-11 1 AS

630-2-12 180 LF (4 RUNS [2
SIGNAL, 1 VIDEO,
1 LPR])

STA. 10+52.72 (63.81' RT)

R1-1, R3-5, (EXIST
SIGN TO BE REMOVED)
700-1-60 1 AS

630-2-12 107 LF (1 RUN AT&T)

630-2-12 107 LF (1 RUN AT&T)

ALUMINUM PEDESTAL
STA. 9+29.51 (45.35' LT)
630-2-12 10 LF
635-2-11 1 EA
646-1-11 1 EA
665-1-11 1 AS

R1-1, (EXIST SIGN
TO BE REMOVED)
700-1-60 1 AS

ALUMINUM PEDESTAL
STA. 9+31.40 (40.89' LT)
630-2-12 0 LF
635-2-11 1 EA
646-1-11 1 EA
665-1-11 1 AS

208 LF (4 RUNS [2
SIGNAL, 1 VIDEO,
1 LPR])

630-2-12 10 LF
635-2-11 1 EA
646-1-11 1 EA
665-1-11 1 AS

630-2-12 10 LF
635-2-11 1 EA
646-1-11 1 EA
665-1-11 1 AS

630-2-12 10 LF
635-2-11 1 EA
646-1-11 1 EA
665-1-11 1 AS

630-2-12 10 LF
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646-1-11 1 EA
665-1-11 1 AS

630-2-12 10 LF
635-2-11 1 EA
646-1-11 1 EA
665-1-11 1 AS

630-2-12 10 LF
635-2-11 1 EA
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630-2-12 10 LF
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665-1-11 1 AS

630-2-12 10 LF
635-2-11 1 EA
646-1-11 1 EA
665-1-11 1 AS

630-2-12 10 LF
635-2-11 1 EA
646-1-11 1 EA
665-1-11 1 AS

ALUMINUM PEDESTAL
STA. 10+08.93 (45.37' LT)
630-2-12 10 LF
635-2-11 1 EA
646-1-11 1 EA
665-1-11 1 AS

ALUMINUM PEDESTAL
STA. 10+35.10 (41.47' LT)
630-2-12 33 LF (3 RUNS [1
SIGNAL, 2 SPARES])
635-2-11 3 EA
649-21-6 1 EA
660-4-12 1 EA
665-1-11 1 AS

20 LF (4 RUNS [3
SIGNAL, 1 VIDEO])
PROPOSED CONTROLLER
STA. 10+52.80 (41.41' LT)
630-2-12 15 LF
632-7-1 1 PI
635-2-11 6 EA
660-4-11 1 EA
670-5-140 1 AS

630-2-12 20 LF (4 RUNS [2
SIGNAL, 1 POWER,
1 SPARE])
PROPOSED FP&L SERVICE
POINT DISCONNECT POLE
STA. 10+63.76 (42.20' LT)
630-2-12 15 LF
635-2-11 4 EA
639-1-122 1 AS
639-2-1 95 LF
641-2-12 1 EA

630-2-12 140 LF (2 RUNS [1
POWER, 1 LPR])
635-2-11 2 EA

630-2-12 48 LF (3 RUNS [1
SIGNAL, 2 SPARES])
635-2-11 3 EA
649-21-6 1 EA
660-4-12 1 EA

630-2-12 10 LF
635-2-11 1 EA
646-1-11 1 EA
665-1-11 1 AS

630-2-12 10 LF
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630-2-12 10 LF
635-2-11 1 EA
646-1-11 1 EA
665-1-11 1 AS

ALUMINUM PEDESTAL
STA. 10+89.59 (40.80' RT)
630-2-12 10 LF
635-2-11 1 EA
646-1-11 1 EA
665-1-11 1 AS

ALUMINUM PEDESTAL
STA. 10+85.27 (46.06' RT)
630-2-12 10 LF
635-2-11 1 EA
646-1-11 1 EA
665-1-11 1 AS

ALUMINUM PEDESTAL
STA. 10+85.27 (46.06' RT)
630-2-12 10 LF
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630-2-12 10 LF
635-2-11 1 EA
646-1-11 1 EA
665-1-11 1 AS

ALUMINUM PEDESTAL
STA. 10+85.27 (46.06' RT)
630-2-12 10 LF
635-2-11 1 EA
646-1-11 1 EA
665-1-11 1 AS

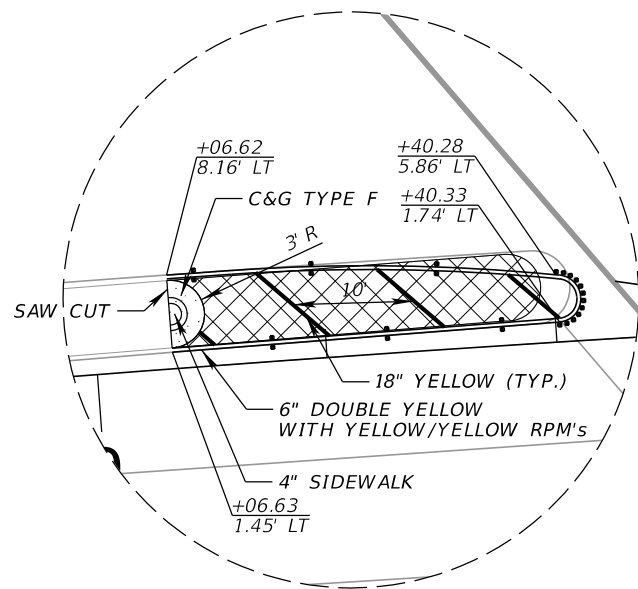
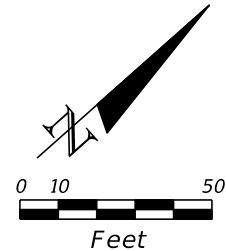
ALUMINUM PEDESTAL
STA. 10+85.27 (46.06' RT)
630-2-12 10 LF
635-2-11 1 EA
646-1-11 1 EA
665-1-11 1 AS

ALUMINUM PEDESTAL
STA. 10+85.27 (46.06' RT)
630-2-12 10 LF
635-2-11 1 EA
646-1-11 1 EA
665-1-11 1 AS

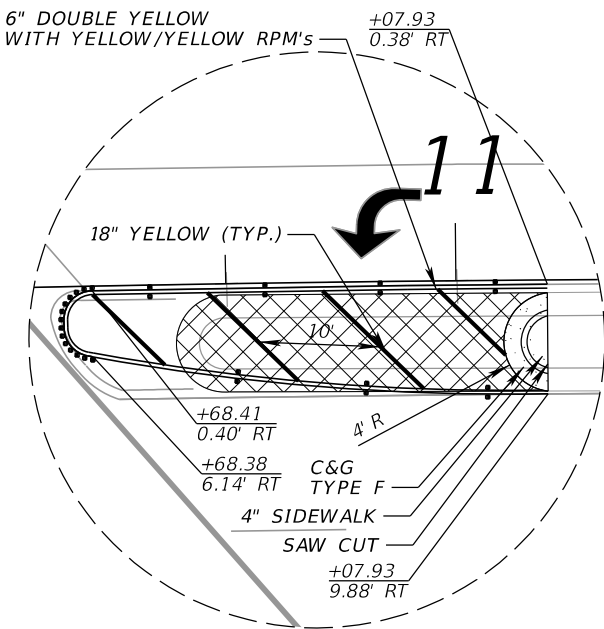
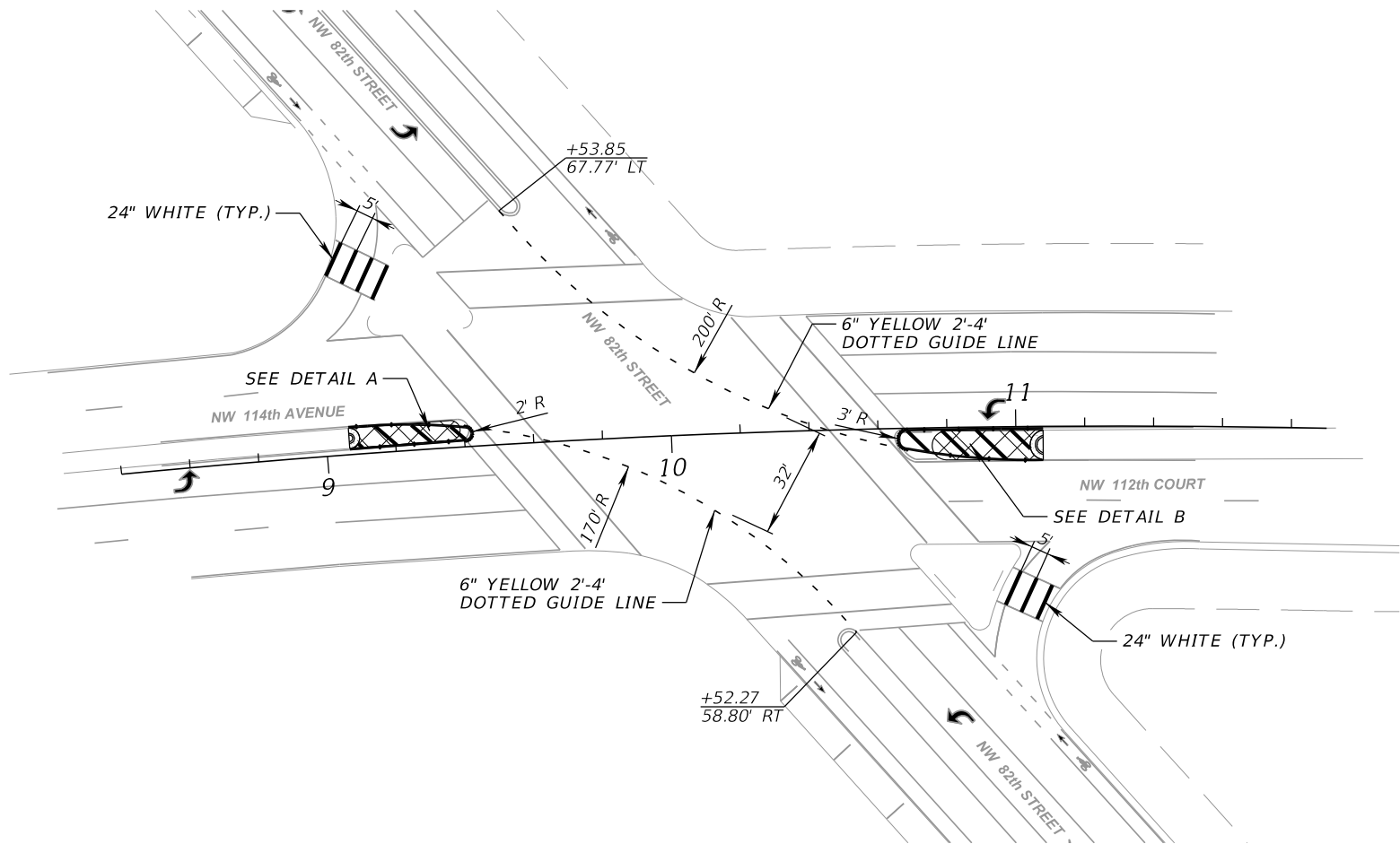
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STA. 10+85.27 (46.06' RT)
630-2-12 10 LF
635-2-11 1 EA
646-1-11 1 EA
665-1-11 1 AS

ALUMINUM PEDESTAL
STA. 10+85.27 (46.06' RT)
630-2-12 10 LF
635-2-11 1 EA
646-1-11 1 EA
665-1-11 1 AS

ALUMINUM PEDESTAL
STA. 10+85.27 (46.06' RT)
630-2-12 10 LF
635-2-11 1 EA
646-1-11 1 EA
66



DETAIL A



DETAIL B

WIDENING
OPTIONAL BASE GROUP 9 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2") AND
FRICTION COURSE FC-12.5 (1 1/2") (PG 76-22) (TRAFFIC C)

LEGEND:



REPLACE EXISTING MEDIAN



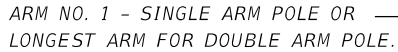
EXISTING MEDIAN TO BE REMOVED; PAVEMENT WIDENING

PAVEMENT MARKINGS AND MEDIAN DETAIL

REVISIONS				MANUEL A. SAULEDA, P.E. P.E. LICENSE NUMBER 45988 H. W. LOCHNER, INC. CONSULTING ENGINEERS AND PLANNERS 8750 NW 36th STREET - SUITE 360 MIAMI, FLORIDA - 33178	LOCHNER	SITE LOCATION NW 82nd ST AND NW 114th AVE	CITY OF DORAL 	SPECIAL DETAIL	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
									T-7

[illegible]

ARM NO. 2 - DOUBLE ARM POLE ORIENTATION
TO BE MEASURED IN A COUNTER CLOCKWISE
DIRECTION FROM ROADWAY ARM NO. 1.



- ARM
MOUNTING
HEIGHT
(ARM M.H.)

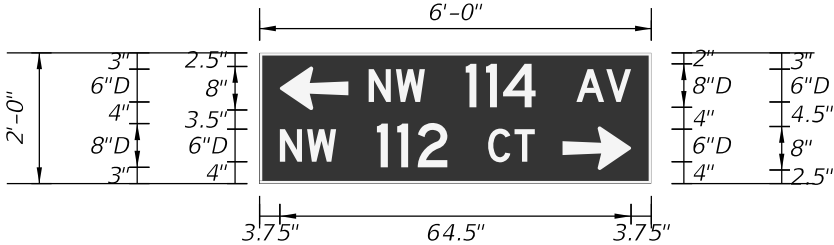
REVISIONS			MANUEL A. SAULEDA, P.E. P.E. LICENSE NUMBER 45988 H. W. LOCHNER, INC. CONSULTING ENGINEERS AND PLANNERS 8750 NW 36th STREET - SUITE 360 MIAMI, FLORIDA - 33178	<div style="text-align: center;"> SITE LOCATION NW 82nd ST AND NW 114th AVE </div>	<div style="text-align: center;"> <i>CITY OF DORAL</i>  </div>	<div style="text-align: center;"> <i>MAST ARM TABULATION</i> </div>	SHEET NO.
DESCRIPTION	DATE	DESCRIPTION					T-8

STANDARD MAST ARM ASSEMBLIES DATA TABLE												
STRUCTURE ID NUMBERS	DESIGNATION	FIRST ARM		SECOND ARM		UF (deg)	LL (deg)	POLE			DRILLED SHAFT ID	DRILLED SHAFT STIRRUPS
		ARM ID	C (ft.)	ARM ID	SAA (ft.)			POLE ID	UAA (ft.)	UB (ft.)		
A1	DS-29	DS-29	55					III			4' DIA X 18'	NO. 4 @ 12
B1	DS-29	DS-29	49.5					III			4' DIA X 17'	NO. 4 @ 12
C1	DS-22	DS-22	44					III			4' DIA X 14'	NO. 4 @ 10
D1	DS-14	DS-14	33.5					III			4' DIA X 12'	NO. 4 @ 12

- NOTES:
1. TOP OF DRILLED SHAFT IS TO BE MADE FLUSH WITH THE TOP OF SIDEWALK. ANY SPECIAL PROCEDURES, SUCH AS GRINDING, ARE TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
 2. WORK THIS SHEET WITH THE SIGNAL DESIGNER'S "MAST ARM TABULATION". SEE "MAST ARM TABULATION" FOR SPECIAL INSTRUCTIONS THAT INCLUDE NON-STANDARD HANDHOLE LOCATION, PAINT COLOR, TERMINAL COMPARTMENT REQUIREMENT, AND PEDESTRIAN FEATURES.
 3. WORK WITH MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS STEEL MAST ARM DETAIL SHEET.

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SIGN NAME	SIGN X	QTY	1	SIGN NUMBER	STATION(S)
PANEL	BORDER				none
WIDTH	6'-0"	WIDTH	0.97"		
HEIGHT	2'-0"	RADII	0"		
LEGEND	White	COLOR	White		
COLOR	Blue				
SYMBOL(S)	ANGLE	X	Y	WID	HT
AR_Type A	90	3.7	13.5	8	12.6
AR_Type A	270	55.7	2.5	8	12.6
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Land	COLUMN SIZE		AVERAGE LENGTH

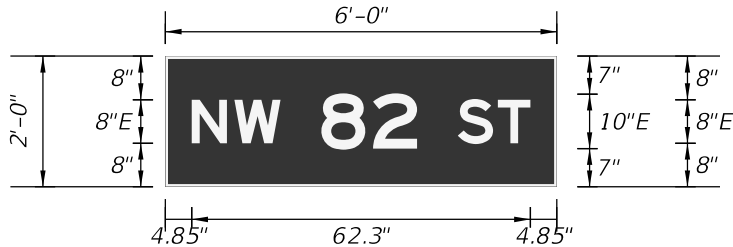


CONTRACTOR TO COORDINATE
WITH THE CITY

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE		WATT	VOLTAGE
-----------------------	-----------------	-------------------	--	------	---------

COPY	N	W	I	I	4	A	V		L										
SPACE	20.1	25	37.9	41.6	44.8	58.3	63.7		48.2										
COPY	N	W	I	I	2	C	T		L										
SPACE	3.7	8.7	21.5	25.3	29.1	42	46.9		46.9										
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			

SIGN NAME	SIGN Y	QTY	1	SIGN NUMBER	STATION(S)
PANEL	BORDER				none
WIDTH	6'-0"	WIDTH	0.97"		
HEIGHT	2'-0"	RADII	0"		
LEGEND	White	COLOR	White		
COLOR	Blue				
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Land	COLUMN SIZE		AVERAGE LENGTH

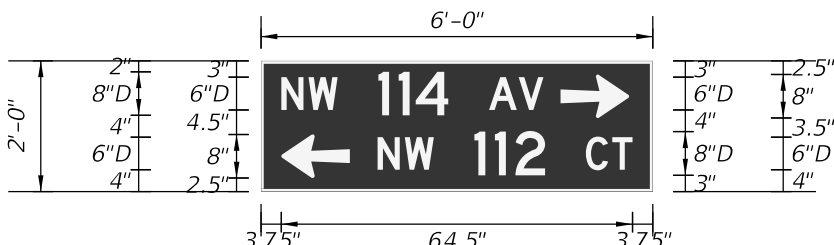


CONTRACTOR TO COORDINATE
WITH THE CITY

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE		WATT	VOLTAGE
-----------------------	-----------------	-------------------	--	------	---------

COPY	N	W	8	2	S	T		L											
SPACE	4.9	12.7	28.7	38.2	53.8	61.1		62.3											
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			

SIGN NAME	SIGN Z	QTY	1	SIGN NUMBER	STATION(S)
PANEL	BORDER				none
WIDTH	6'-0"	WIDTH	0.97"		
HEIGHT	2'-0"	RADII	0"		
LEGEND	White	COLOR	White		
COLOR	Blue				
SYMBOL(S)	ANGLE	X	Y	WID	HT
AR_Type A	270	55.1	13.5	8	12.6
AR_Type A	90	3.7	2.5	8	12.6
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Land	COLUMN SIZE		AVERAGE LENGTH



CONTRACTOR TO COORDINATE
WITH THE CITY

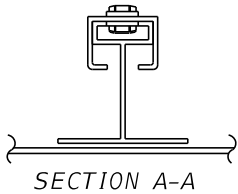
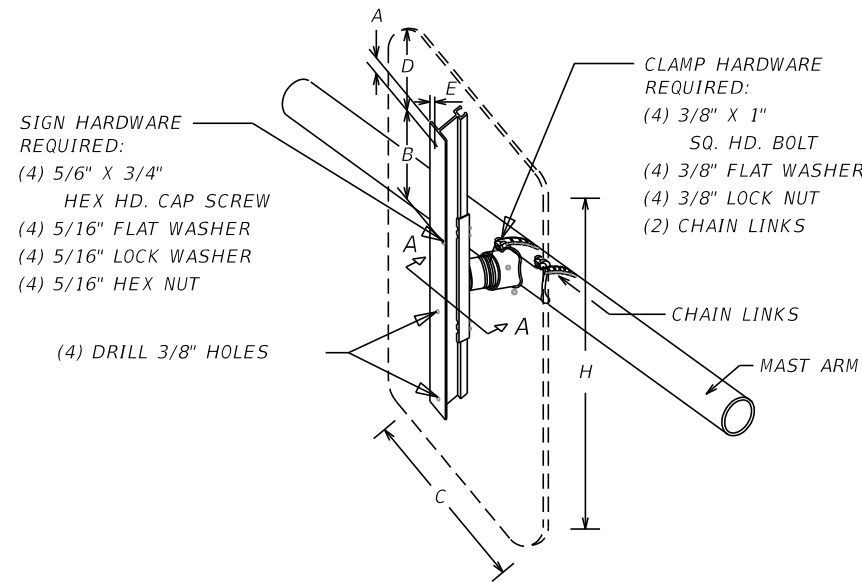
NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE		WATT	VOLTAGE
-----------------------	-----------------	-------------------	--	------	---------

COPY	N	W	I	I	4	A	V		L										
SPACE	3.7	8.7	21.5	25.3	28.4	41.9	47.4		48.2										
COPY	N	W	I	I	2	C	T		L										
SPACE	21.4	26.4	39.2	43	46.8	59.7	64.6		46.9										
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			

SIGN NAME	QTY	1	SIGN NUMBER	STATION(S)	
PANEL	BORDER				
WIDTH	WIDTH				
HEIGHT	RADII				
LEGEND	COLOR				
COLOR					
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Land	COLUMN SIZE		AVERAGE LENGTH

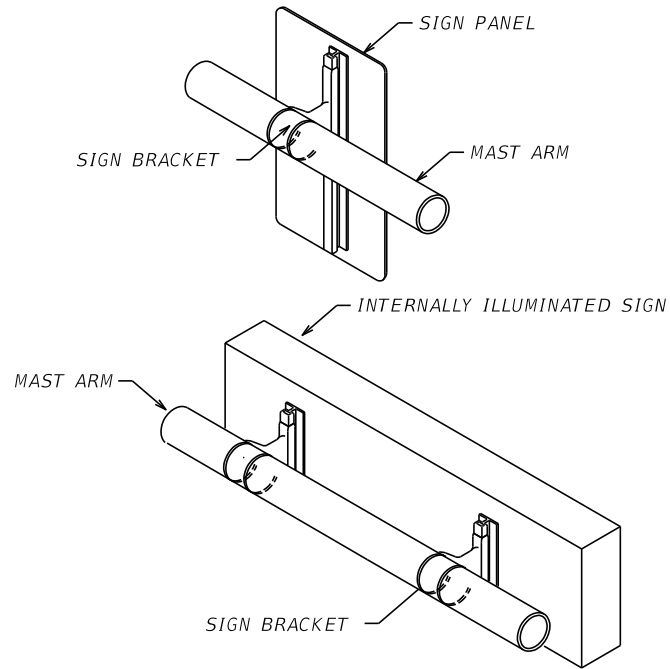
NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE		WATT	VOLTAGE
-----------------------	-----------------	-------------------	--	------	---------

COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			



SIGN SIZE					
H	A	B	C	D	E
24"	1/2"	6"	20"	2"	1/2"
30"	1/2"	8"	26"	2"	1/2"
36"	1/2"	10"	32"	2"	1/2"
48"	1/2"	14"	44"	2"	1/2"

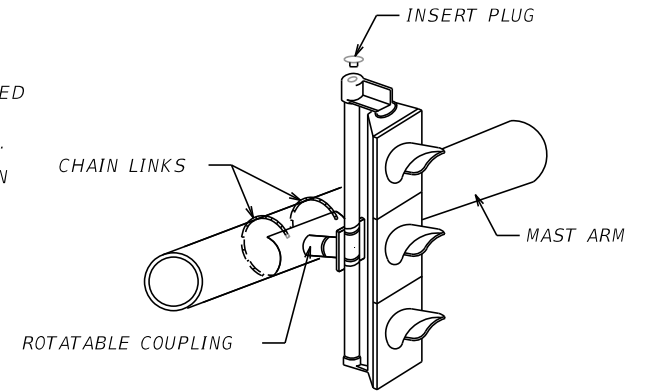
SIGN MOUNTING DETAIL
N.T.S.



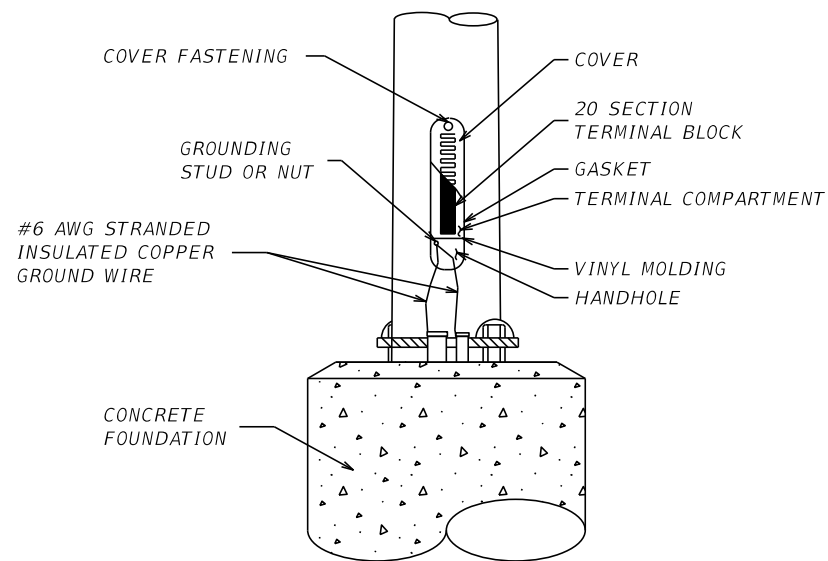
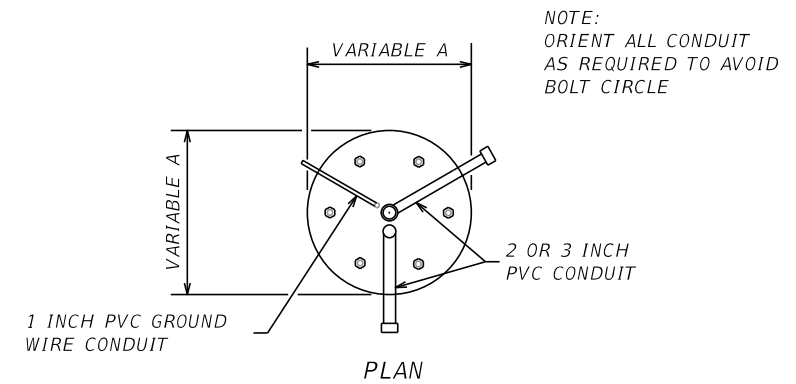
- NOTES:
1. VERTICAL ADJUSTMENT SHALL BE POSSIBLE WITHOUT REMOVAL OF THE SIGN BRACKET. THE SIGN PANELS SHALL BE CENTERED VERTICALLY ON THE MAST ARM.
 2. TWO SIGN BRACKETS AND WIND-BEAMS ARE REQUIRED FOR ALL SIGN PANELS OVER 36 INCHES WIDE.

NOTES:

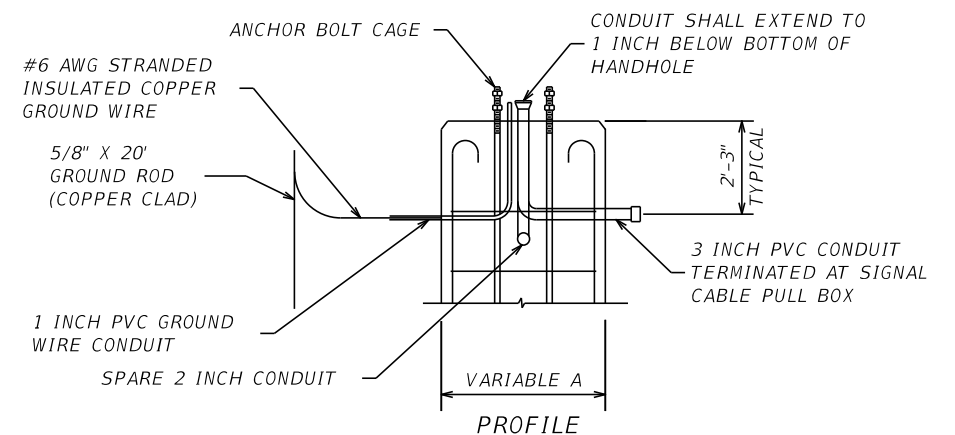
1. HORIZONTAL ADJUSTMENT SHALL BE PROVIDED FOR WITHOUT REMOVING THE ARM BRACKET.
2. SIGNAL CABLE SHALL BE COMPLETELY CONCEALED FROM THE MAST ARM TO THE SIGNAL HEADS BY UTILIZING A TUBE AND HOLLOW BRACKETS.
3. FIELD DRILL ENTRY HOLE FOR SIGNAL CABLE IN MAST ARM AND FIT WITH RUBBER GROMMET.



ADJUSTABLE SIGNAL MOUNTING DETAIL
HORIZONTAL OR VERTICAL INSTALLATION
N.T.S.



POLE ON BASE DETAIL
N.T.S.

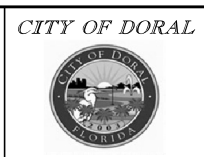


FOUNDATION CONDUIT DETAIL
N.T.S.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

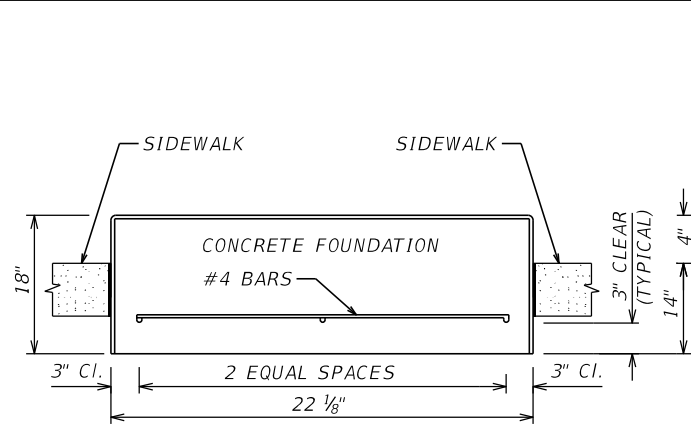
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

SITE LOCATION
NW 82nd ST AND NW 114th AVE

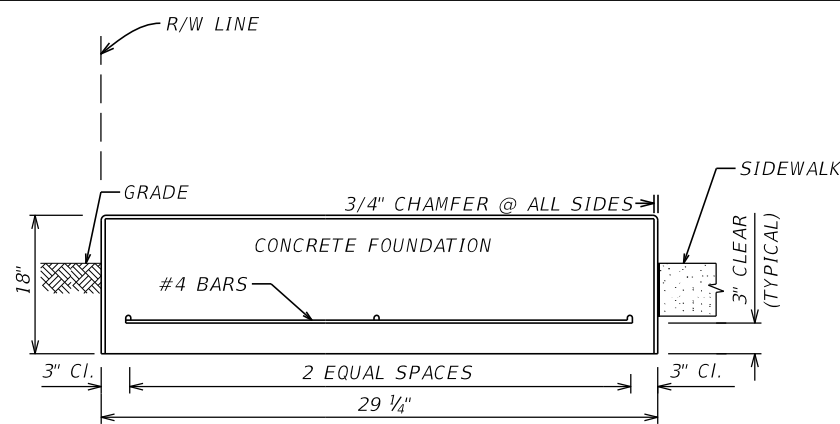


MAST ARM DETAIL

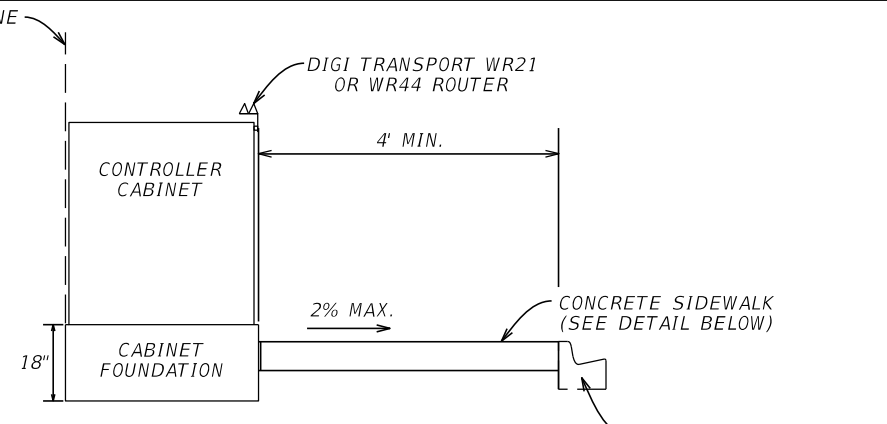
SHEET NO.
T-11



SECTION A-A



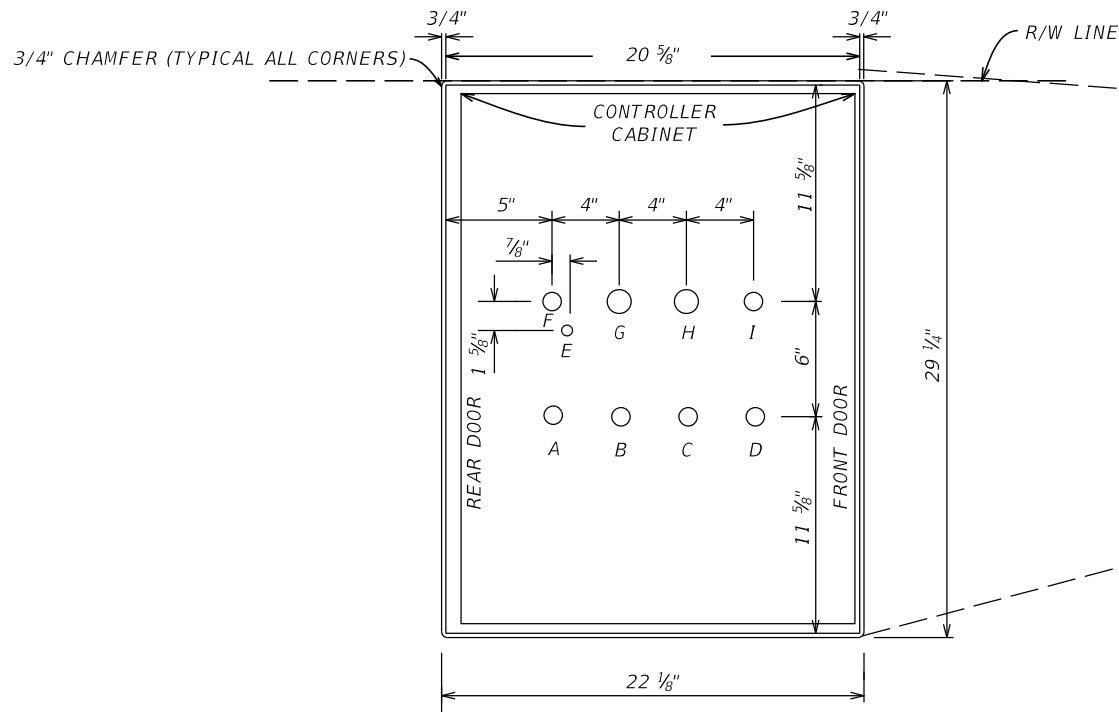
SECTION B-B



SECTION C-C

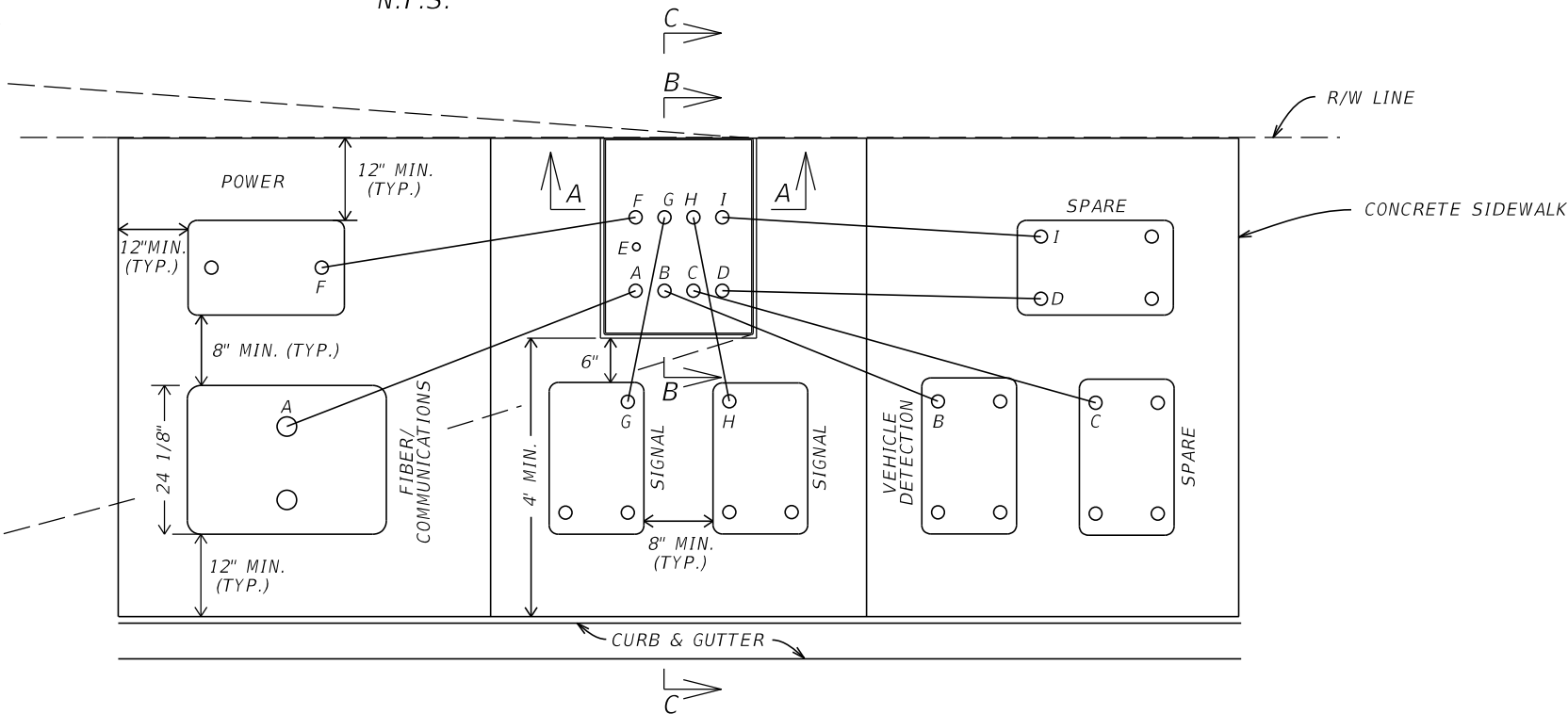
CONTROLLER CABINET CONCRETE FOUNDATION DETAILS

N.T.S.



CONTROLLER CABINET AND CONDUIT ARRANGEMENT DETAIL

N.T.S.



CONTROLLER CABINET AND PULL BOX DETAIL

N. T. S.

NOTES:

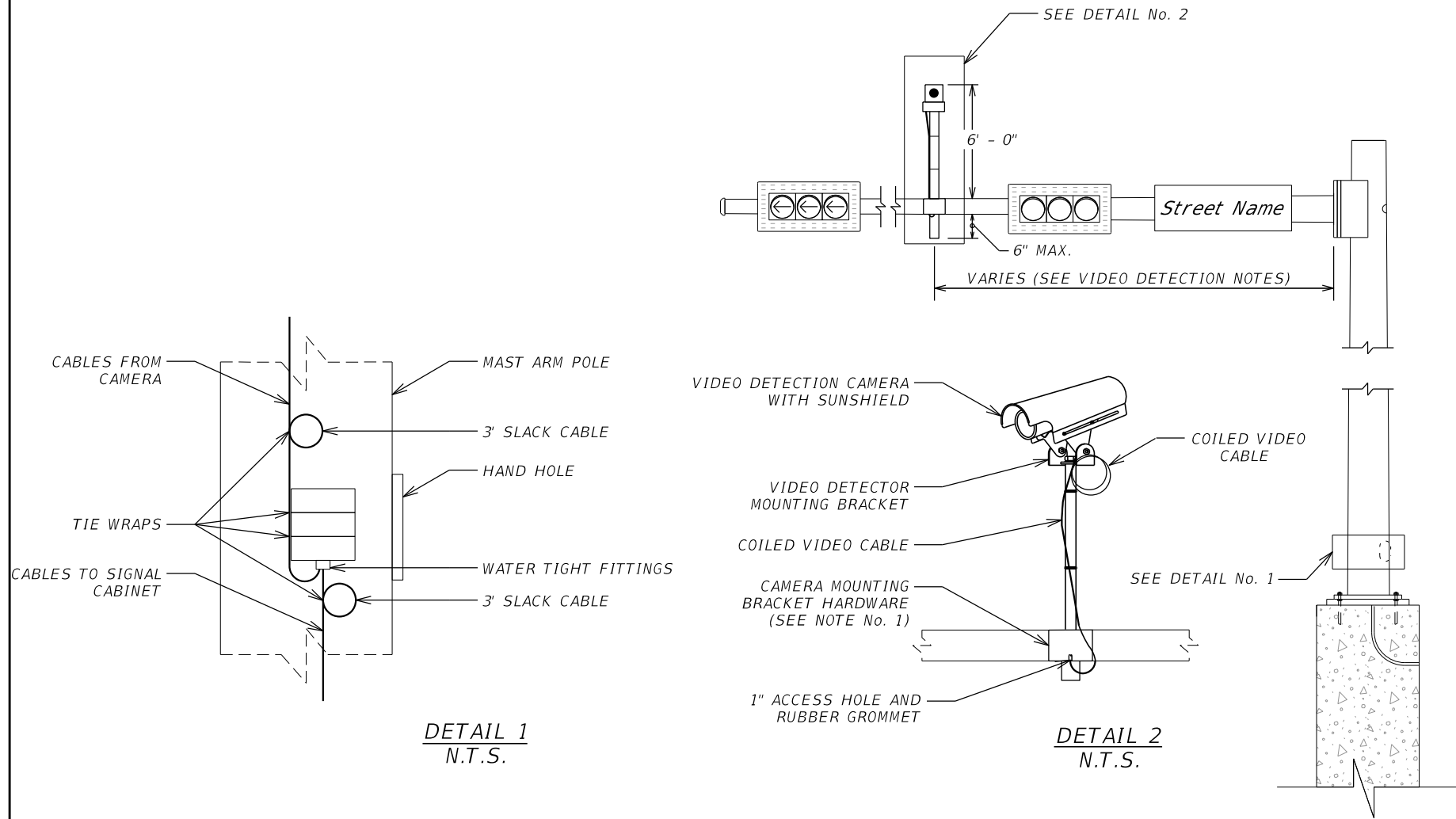
1. NO DEVIATION FROM LAYOUT. LOCATION OF CONDUIT SHALL NOT CHANGE FROM DESIGNATED PULLBOX.

DESIGNER NOTES FOR DIGI MODEM:

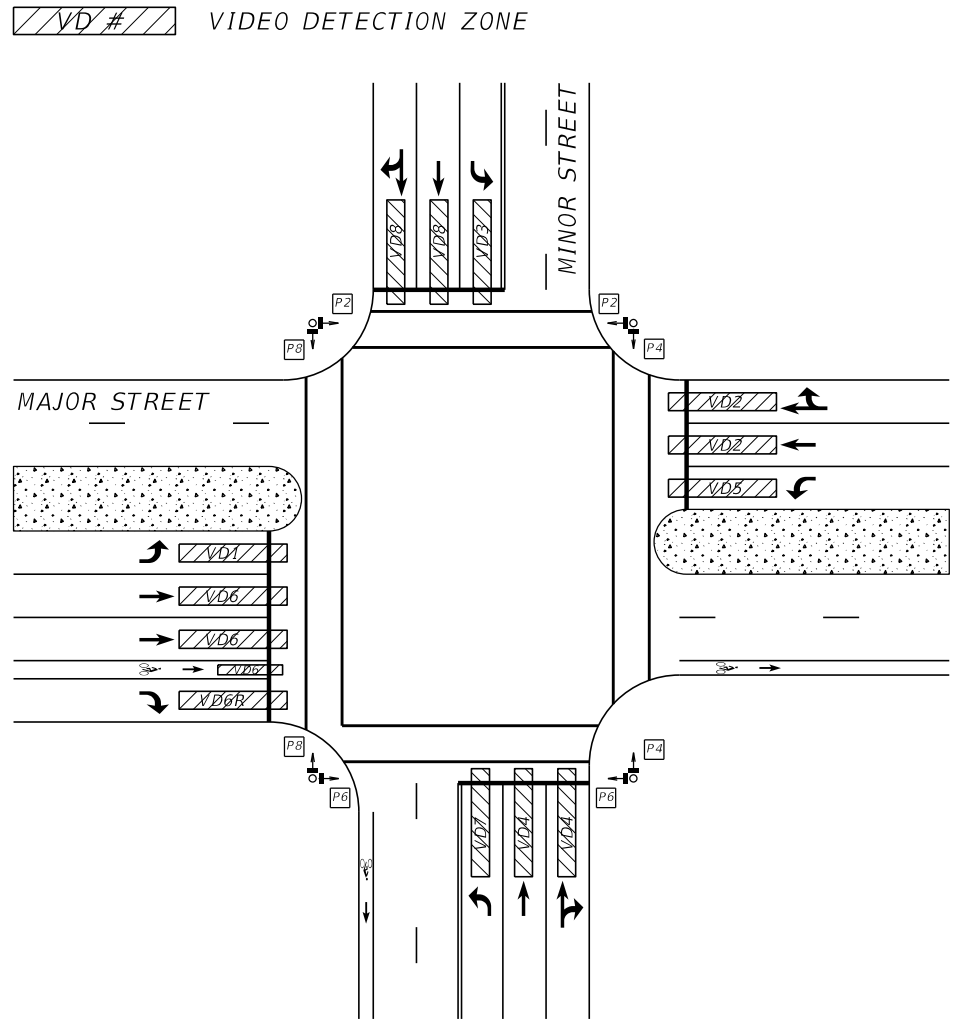
ADD PAY ITEM NOTE: COST OF COMPLETE INSTALLATION OF THE DIGI MODEM TO BE PAID UNDER PAY ITEM FOR NEW CONTROLLER CABINET
COMPLETE PROPRIETARY PRODUCT CERTIFICATION FORM

DESIGNATION	TYPE	FUNCTION
A	2" PVC	FIBER/COMMUNICATIONS
B	2" PVC	VEHICLE DETECTION
C	2" PVC	SPARE
D	2" PVC	SPARE
E	1" PVC	GROUND ROD
F	2" PVC	POWER
G	3" PVC	SIGNAL CABLE
H	3" PVC	SIGNAL CABLE
I	2" PVC	SPARE

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	SITE LOCATION NW 82nd ST AND NW 114th AVE	CITY OF DORAL 	CONTROLLER CABINET INSTALLATION DETAIL	SHEET NO. T-12
DATE	DESCRIPTION	DATE	DESCRIPTION					



MAST ARM VIDEO DETECTOR INSTALLATION DETAIL
N.T.S.



VIDEO DETECTION ZONE DETAIL
N.T.S.

- VIDEO DETECTION NOTES:
- 1. ROUTE CAMERA CABLE(S) THROUGH THE MAST ARM. FOR EXISTING MAST ARMS UTILIZE THE EXISTING SIGNAL ACCESS HOLE IF POSSIBLE.
 - 2. PROVIDE IMAGE RANGE TO A MAXIMUM OF 8 FEET AHEAD OF THE STOP BAR AND A MINIMUM OF 40 FEET BEHIND THE STOP BAR. PROVIDE AN IMAGE RANGE OF 3 FEET IN FRONT OF THE STOP BAR FOR THE BIKE LANE AND A MINIMUM OF 17 FEET BEHIND THE STOP BAR.