

CITY OF HOLLYWOOD BEACH MAINTENANCE OFFICE

PROJECT NUMBER BCRA 14 - 003 HOLLYWOOD, FL 33019

ARCHITECT: SYNALOVSKI ROMANIK SAYE, LLC.

1800 ELLER DRIVE, SUITE 500 FORT LAUDERDALE, FL 33316 954.961.6806

CIVIL ENGINEER: FLYNN ENGINEERS, INC. SERVICES, PA

235 COMMERCIAL BLVD. SUITE 207 LAUDERDALE BY THE SEA, FL 33308 TELEPHONE: (954)771.8184

STRUCTURAL ENGINEER: SAAD EL-HAGE CONSULTING ENGINEERS, INC.

601 NW 9TH AVENUE, SUITE 401 FORT LAUDERDALE, FL 33309 PHONE: 954.771.8149

M.E.P. ENGINEER: LEONARDO NAVEIRAS INC.

1918 HARRISON STREET, SUITE 207 HOLLYWOOD, FL 33020 954.270.4822

Fort Lauderdale, FL 33316 F 954.961.6807

Manuel Synalovski, AIA AR 0011628

www.synalovski.com

LICENSE NO. AA26001863

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GENERAL NOTES

1. CONSTRUCTION SHALL FOLLOW " 2014 FLORIDA BUILDING CODE" AS ADOPTED BY THE COUNTY AS APPLICABLE AND ALL APPLICABLE AMENDMENTS.

2. THE CONTENTS OF THESE GENERAL NOTES SHALL NOT DETRACT ANY REQUIREMENTS FROM THE DRAWINGS

3. NO DEVIATION FROM THE CONTRACT DOCUMENTS SHALL BE MADE WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT

4. THE CIVIL, AND ELECTRICAL, DRAWINGS ARE SUPPLEMENTARY TO THE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO INSTALLATION OF SAID WORK. ANY WORK INSTALLED IN CONFLICT WITH THE ARCHITECTURAL DRAWINGS WITHOUT WRITTEN APPROVAL OF THE ARCHITECT SHALL BE CORRECTED BY THE

5. THE CITY OF HOLLYWOOD SHALL PAY FOR ALL PERMITS, SUB PERMITS, LICENSE

6. DRAWINGS ARE NOT TO BE SCALED. DIMENSIONS TO BE FOLLOWED.

7. THE CONTRACTOR SHALL CONSULT THE ARCHITECT FOR THOSE ITEMS NOT DETAILED IN THE DRAWINGS. SHOULD ANY CONFLICT OCCUR IN DIMENSIONS, ALL

8. THE OWNER SHALL COORDINATE WITH CONTRACTOR REMOVAL OF ALL EQUIPMENT SHALL REMOVE ALL ITEMS NOTED OR INDICATED ON THE DRAWINGS AND AS REQUESTED TO ACCOMMODATE THE NEW WORK, ITEMS NOTED FOR SALVAGE SHALL BE REMOVED AND STORED IN AREA DESIGNATED BY A REPRESENTATIVE OF THE

9. UNLESS NOTED OTHERWISE, ALL FILL ALL FILL MATERIAL SHALL BE SAND, CLEAN

AND FREE OF ORGANIC DEBRIS. 10. BUILDER SHALL COORDINATE ALL THE WORK OF ALL TRADES.

11. BUILDER SHALL REVIEW DRAWINGS IN THEIR ENTIRETY BEFORE STARTING WORK. THE BUILDER SHALL ACCEPT FULL RESPONSIBILITY FOR ANY ERRORS OR OMISSIONS NOT REPORTED IMMEDIATELY IN WRITING TO THE ARCHITECT. BACKCHARGES WILL NOT BE ACCEPTED. DO NOT SCALE DRAWINGS.

11.1 NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL

12. SUBMIT MINIMUM THREE (3) COPIES OF SHOP DRAWINGS AS REQUIRED BELOW.

22. NOT USED

14. CONTRACTOR IS RESPONSIBLE FOR ADEQUATE BRACING OF STRUCTURAL OR NON-STRUCTURAL MEMBERS DURING CONSTRUCTION.

15. THE CONTRACTOR SHALL IN THE WORK OF ALL TRADES, PERFORM ANY AND ALL CUTTING AND PATCHING NECESSARY TO COMPLETE THE WORK AND SHALL PROTECT THE EXISTING BRIDGE SUPPORT COLUMNS FROM DAMAGE CAUSED BY THE WORK. THE CONTRACTOR SHALL REPAIR AND RESTORE THE EXISTING CONSTRUCTION TO ITS ORIGINAL CONDITION TO THE SATISFACTION OF THE OWNER AND THE ARCHITECT.

16. COORDINATE DEMOLITION AND CONSTRUCTION TO REMAIN, SO AS TO PROVIDE THE BEST POSSIBLE JOINT OR UNDERLYING SURFACE FOR THE NEW WORK.

17. THE CONTRACTOR SHALL VISIT THE JOB SITE AND BE RESPONSIBLE FOR THE VERIFICATION OF ALL ELEVATION, CONDITIONS, AND DIMENSIONS PRIOR TO COMMENCING CONSTRUCTION.

18. THE GENERAL CONTRACTOR SHALL COORDINATE AND VERIFY WITH ALL SUB-CONTRACTORS THE SIZE AND LOCATION OF ALL PIPING, DUCTWORK TRENCHES, SLEEVES, SPECIAL BOLTING FOR EQUIPMENT CONDUITS, ETC.

19. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS AND METHODS FOR DEMOLITION. THE CONTRACTOR SHALL INFORM THE ARCHITECT OF ANY CONDITIONS THAT WOULD AFFECT THE STRUCTURAL INTEGRITY OF THE BUILDING PRIOR TO PROCEEDING WITH DEMOLITION.

20. JOB SITE MEASUREMENTS ARE THE FULL RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTOR AND MUST BE TAKEN FOR ALL ITEMS BY ALL SUBCONTRACTORS PRIOR TO FABRICATION.

21. THE ARCHITECT SHALL NOT HAVE CONTROL OR CHANGE OF, AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, ALL OF WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY OPERATIONS UNDER AND ABOUT THE PROJECT WASTE MATERIALS, RUBBISH, THE CONTRACTOR'S TOOLS, CONSTRUCTION EQUIPMENT, MACHINERY AND SURPLUS MATERIALS. CONTRACTOR SHALL CLEAN AND POLISH ALL GLASS, WAX TILE FLOORS, VACUUM CARPETS, AND LEAVE OTHER SPACES BROOM CLEAN

COORDINATE CONSTRUCTION ACTIVITIES TO ASSURE EFFICIENT AND ORDERLY INSTALLATION OF EACH PART OF THE WORK AND THAT ARE DEPENDENT UPON EACH OTHER FOR PROPER INSTALLATION, CONNECTION, AND OPERATION. GENERAL INSTALLATION PROVISIONS:

1. INSPECT BOTH THE SUBSTRATE AND CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS HAVE

RECOMMENDATIONS, TO THE EXTENT THAT THOSE INSTRUCTIONS AND RECOMMENDATIONS ARE MORE EXPLICIT OR STRINGENT THAN REQUIREMENTS

3. PROVIDE ATTACHMENT AND CONNECTION DEVICES AND METHODS NECESSARY FOR SECURING WORK. SECURE WORK TRUE TO LINE AND LEVEL. ALLOW FOR

4. PROVIDE UNIFORM JOINT WIDTHS IN EXPOSED WORK. ARRANGE JOINTS IN CHOICES TO THE ARCHITECT FOR FINAL DECISION.

5. INSTALL EACH COMPONENT DURING WEATHER CONDITIONS AND PROJECT STATUS THAT WILL ENSURE THE BEST POSSIBLE RESULTS. ISOLATE EACH PART OF THE COMPLETED CONSTRUCTION FROM INCOMPATIBLE MATERIAL AS NECESSARY TO PREVENT DETERIORATION.

6. COORDINATE TEMPORARY ENCLOSURES WITH REQUIRED INSPECTIONS AND TESTS, TO MINIMIZE THE NECESSITY OF UNCOVERING COMPLETED C CONSTRUCTION FOR THAT PURPOSE.

7. WHERE MOUNTING HEIGHTS ARE NOT INDICATED, INSTALL INDIVIDUAL COMPONENTS AT STANDARD MOUNTING HEIGHTS RECOGNIZED WITHIN THE INDUSTRY FOR THE ARTICULAR APPLICATION INDICATED. REFER QUESTIONABLE MOUNTING HEIGHT DECISIONS TO THE ARCHITECT FOR FINAL DECISION. CLEAN AND MAINTAIN COMPLETED CONSTRUCTION AS FREQUENTLY AS NECESSARY THROUGH THE REMAINDER OF THE ENTIRE CONSTRUCTION PERIOD. ADJUST AND LUBRICATE OPERABLE COMPONENTS TO ENSURE OPERABILITY WITHOUT DAMAGING EFFECTS.

THE TERM "FURNISH" MEANS TO SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS.

THE TERM "INSTALL" DESCRIBES OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLING, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND

THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR

UNLESS THE CONTRACT DOCUMENTS INCLUDE MORE STRINGENT REQUIREMENTS, APPLICABLE INDUSTRY STANDARDS HAVE THE SAME FORCE AND EFFECT AS IF BOUND OR COPIED DIRECTLY INTO THE CONTRACT DOCUMENTS TO THE EXTENT REFERENCED. SUCH STANDARDS ARE MADE A PART OF THE CONTRACT DOCUMENTS

SCHEDULE A PRE-CONSTRUCTION CONFERENCE AND ORGANIZATIONAL MEETING AT THE PROJECT SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES. CONDUCT PRE-INSTALLATION CONFERENCES AT THE SITE BEFORE EACH ARCHITECT OF SCHEDULED MEETING DATES, ARCHITECT'S ATTENDANCE WILL BE AT HIS DISCRETION. CONDUCT PROJECT COORDINATION MEETINGS AT REGULARLY

1. PREPARE, REVIEW, STAMP WITH APPROVAL AND SUBMIT, ONE ORIGINAL AND THREE PRINTS WITH REASONABLE PROMPTNESS AND IN ORDERLY SEQUENCE SO AS TO CAUSE NO DELAY IN THE WORK, SUBMITTALS REQUIRED BY THE

2. REQUIRED SUBMITTALS: CONSTRUCTION SCHEDULE, SCHEDULE OF VALUES,

3. SHOP DRAWINGS/PRODUCT DRAWINGS SHALL BE SUBMITTED FOR ALL MATERIALS, PRODUCTS, FINISHES, AND FENCES, ETC., TO ARCHITECT FOR APPROVAL PRIOR TO ORDER PLACEMENT AND/OR INSTALLATION.

4. SAMPLES: WHEN REQUESTED, SUBMIT TWO. CONSTRUCTION SCHEDULE: LINIER BAR CHART TIME CONTROL TYPE.

28. - QUALITY CONTROL AND TESTING LABORATORY SERVICES

1.THE OWNER WILL EMPLOY AND PAY FOR SERVICES OF AN INDEPENDENT TESTING LABORATORY TO PERFORM SPECIFIED INSPECTION, SAMPLING, AND TESTING SERVICES. WHERE RESULTS DO NOT COMPLY WITH REQUIREMENTS OF CONTRACT DOCUMENTS, RETESTS ARE RESPONSIBILITY OF CONTRACTOR. SUBMIT COPIES OF TEST REPORTS TO THE OWNER, CONTRACTOR, ARCHITECT, CIVIL ENGINEER, AND STRUCTURAL ENGINEER. UPON COMPLETION OF SERVICES, REPAIR AND RESTORE SUBSTRATES AND FINISHES TO ELIMINATE DEFICIENCIES OF EXPOSED FINISHES.

2.CONTRACTOR TO NOTIFY CITY OF HOLLYWOOD FOR ANY DISCREPANCIES WITH, OR DISRUPTION OF EXISTING IRRIGATION DURING WORK

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING, REPAIR AND FINISH TO ANY/ALL MATERIALS/AREAS TO REMAIN WHICH MAY BECOME DAMAGED DURING DEMOLITION BY A DEMOLITION CONTRACTOR, AND ANY OTHER FORCES, CONTRACTED TO THE RESTORATION.

2. DEMOLITION CONTRACTOR SHALL EXCERCISE EXTREME CARE WHEN DEMOLITION OR REMOVING ITEMS IN BUILDING SO AS TO CAUSE THE LEAST AMOUNT OF PATCHWORK AND REPAIR.

3. EXISTING FINISHES AND OTHER MATERIALS TO REMAIN THAT ARE DAMAGED BY THE DEMOLITION CONTRACTOR DURING DEMOLITION AND REMOVAL PROCESS SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.

4. THE CONTRACTOR SHALL MAINTAIN THE WORK SITE CLEAN AND FREE OF ALL TRASH, DEBRIS, AND SHALL PROTECT ALL ADJACENT WORK FROM DAMAGE,

5 THE CONTRACTOR TO NOTIFY CITY OF HOLLYWOOD FOR ANY DISCREPANCIES WITH, OR DISRUPTION OF EXISTING IRRIGATION DURING WORK

30. - PRODUCTS, MATERIALS, AND EQUIPMENT

1. THE WORK IS BASED ON THE MATERIALS, EQUIPMENT, AND METHODS DESCRIBED IN THE CONTRACT DOCUMENTS. WHERE IN THE CONTRACT DOCUMENTS CERTAIN PRODUCTS, MANUFACTURER'S TRADE NAMES, OR CATALOG NUMBERS ARE GIVEN, IT IS FOR THE EXPRESSED PURPOSE OF ESTABLISHING A BASIS OF QUALITY, DURABILITY. AND EFFICIENCY OF DESIGN IN HARMONY WITH THE WORK OUTLINED AND IS NOT INTENDED FOR THE PURPOSE OF LIMITING COMPETITION. ANY MANUFACTURER MEETING THE SPECIFIED REQUIREMENTS WILL BE ACCEPTABLE. HOWEVER, NO SUBSTITUTIONS WILL BE MADE WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. THE MANUFACTURER AND SUPPLIER EXPRESSLY WARRANTS THAT THE PRODUCTS, MATERIALS AND EQUIPMENT FURNISHED BY HIM AND INSTALLED IN THIS PROJECT ARE SUITABLE FOR THE APPLICATIONS SHOWN AND SPECIFIED IN THE CONTRACT DOCUMENTS AND INCLUDES FEATURES, ACCESSORIES, AND PERFORMING CHARACTERISTICS LISTED IN THE MANUFACTURER'S CATALOG IN FORCE ON THE DATE BIDS ARE REQUESTED FOR THE WORK. ALL EXTERIOR BUILDING CLADDING PRODUCTS AND ATTACHMENT MECHANISMS SHALL MEET OR EXCEED THE MPH WIND LOAD REQUIREMENTS PER CHAPTER 16 OF THE STANDARD BUILDING CODE, CUERRENT EDITION. THE OWNER WILL NOT ACCEPT THE START OF THE WARRANTY PERIOD ON SYSTEMS OR EQUIPMENT UNTIL SUBSTANTIAL COMPLETION

2. CONTRACTOR SHALL SUBMIT ALL THE REQUIRED PRODUCT APPROVAL DOCUMENTATIONS AND SHOP DRAWINGS WITH ARCHITECT'S OR ENGINEER'S OF RECORD APPROVED STAMP TO THE BUILDING DEPARTMENT FOR APPROVAL PRIOR

3.SPECIFICATIONS ASSOCIATED WITH THIS PROJECT ARE INCLUDED IN THE CONTRACT DOCUMENTS DRAWINGS.

1. PRIOR TO REQUESTING REVIEW FOR SUBSTANTIAL COMPLETION, COMPLETE THE FOLLOWING AND LIST KNOWN EXCEPTIONS:

- ADVISE OWNER OF PENDING INSURANCE CHANGEOVER REQUIREMENTS SUBMIT SPECIFIC WARRANTIES, WORKMANSHIP/MAINTENANCE BONDS, MAINTENANCE AGREEMENTS, AGREEMENTS, FINAL CERTIFICATIONS, AND OTHER REQUIRED CLOSEOUT DOCUMENTS.
- OBTAIN AND SUBMIT RELEASE ENABLING OWNER'S FULL AND UNRESTRICTED USE AND ACCESS OF THE PROJECT
- DELIVER TOOLS, SPARE PARTS, EXTRA STOCKS OF MATERIALS, AND SIMILAR ITEMS. OBTAIN RECEIPTS FOR DELIVERIES
- MAKE FINAL CHANGEOVER OF LOCKS AND TRANSMIT KEYS TO OWNER.
- COMPLETE START-UP TESTING OF SYSTEMS AND INSTRUCTION OF OWNER'S
- OPERATING/MAINTENANCE PERSONNEL
- 7. COMPLETE FINAL CLEANING UP REQUIREMENTS.

2. PRIOR TO REQUESTING REVIEW FOR CERTIFICATION OF FINAL PAYMENT, COMPLETE THE FOLLOWING:

- 1. SUBMIT FINAL PAYMENT REQUEST WITH REQUIRED CLOSEOUT
- COMPLETED OR CORRECTED, STATING THAT EACH ITEM HAS BEEN COMPLETED OR OTHERWISE RESOLVED FOR ACCEPTANCE.

2. SUBMIT COPY OF ARCHITECT'S FINAL PUNCH LIST OF ITEMIZED WORK TO BE

3. SUBMIT TO THE ARCHITECT RECORD DRAWINGS, MAINTENANCE MANUALS, AND SIMILAR FINAL RECORD INFORMATION REQUESTED.

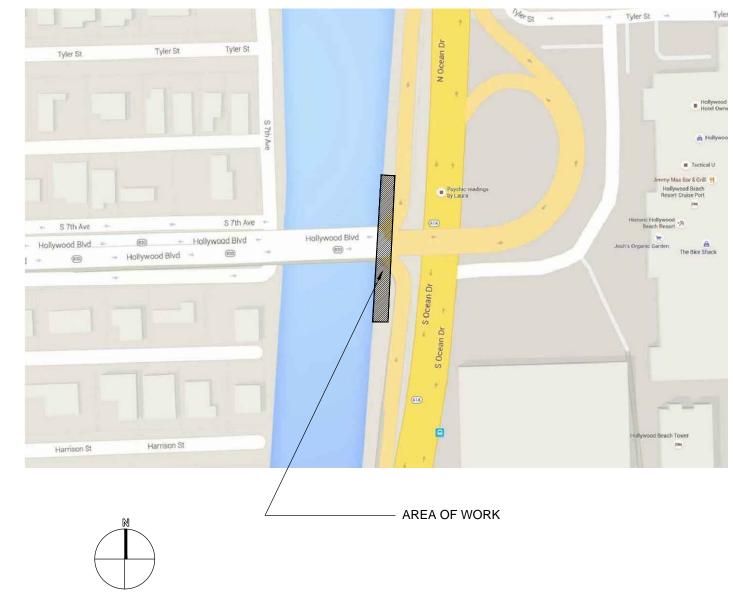
PREPARE A CORRECTIONS AND COMPLETIONS LIST TO BE USED AS THE BASIS FOR THE INSPECTION FOR SUBSTANTIAL COMPLETION. MAINTAIN ONE COPY OF THE CONTRACT DOCUMENTS FOR RECORD DOCUMENTATION. RECORD DOCUMENTS SHALL BE RED LINED AND KEPT UP TO DATE THROUGH OUT THE DURATION OF THE PROJECT, DO NOT USE RECORD DOCUMENTS FOR CONSTRUCTION PURPOSES. SUBMIT TWO COPIES OF A MAINTENANCE AND OPERATING MANUAL PRESENTING COMPLETE DIRECTIONS AND RECOMMENDATIONS FOR THE PROPER CARE AND MAINTENANCE OF VISIBLE SURFACES AS WELL AS MAINTENANCE AND OPERATING INSTRUCTIONS FOR EQUIPMENT. OPERATING INSTRUCTIONS SHALL INCLUDE NECESSARY PRINTED DIRECTIONS FOR CORRECT OPERATIONS, ADJUSTMENTS, SERVICING, AND MAINTENANCE OF MOVABLE PARTS. ALSO INCLUDED SHALL BE SUITABLE PARTS LISTS, APPROVED SHOP DRAWINGS, AND DIAGRAMS SHOWING PARTS LOCATION AND ASSEMBLY. SUBMIT SEPARATE BINDER OF ALL ORIGINAL WARRANTIES AND

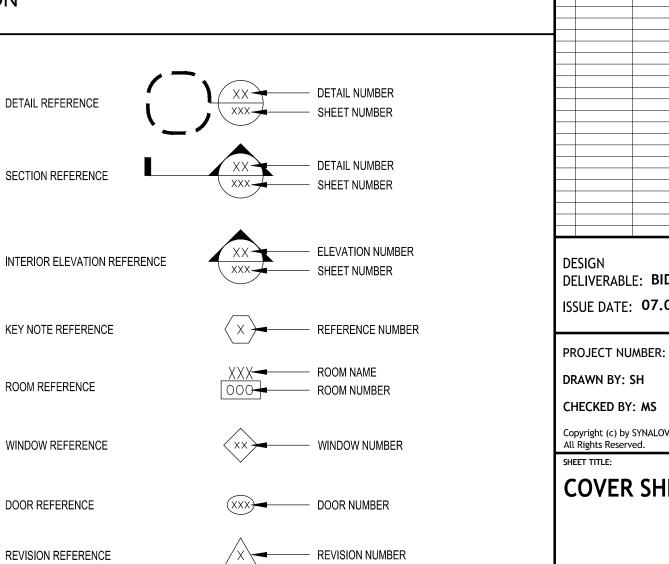
32. CONSTRUCTION CLEANING

REMOVE RUBBISH AND DEBRIS FROM THE CONSTRUCTION SITE TO GUARD AGAINST FIRE AND SAFETY HAZARDS. IF CLEANING IS NOT PERFORMED TO THE SATISFACTION OF THE OWNER, THE OWNER RESERVES THE RIGHT TO PERFORM CLEANING AT THE CONTRACTOR'S EXPENSE. STORE VOLATILE WASTES IN COVERED METAL CONTAINERS, AND REMOVE FROM THE PREMISES DAILY. DO NOT BURN OR BURY RUBBISH AND WASTE MATERIALS ON PROJECT SITE. USE ONLY CLEANING MATERIALS RECOMMENDED BY MANUFACTURER OF SURFACE TO BE CLEANED. PERFORM FINAL CLEAN UP AND LEAVE THE PROJECT IN CLEAN CONDITION READY FOR OWNER OCCUPANCY.

SHEET	INI	DEX
A-001	:	COVER SHEET
	:	SURVEY
C-1	:	ENGINEERING PLAN
C-2	:	PAVING GRADING AND DRAINAGE DETAILS
C-3	:	WATER AND SEWER DETAILS
C-4	:	GENERAL NOTES AND SPECIFICATIONS
A-101	:	DEMOLITION AND SITE PLAN
A-401		ENLARGED PLANS AND DETAILS
E-101	:	ELECTRICAL SITE PLAN
P-101	:	PLUMBING SITE PLAN
L1.0	:	TREE DISPOSITION PLAN
L2.0	:	PROPOSED LANDSCAPE PLAN
L3.0	:	PROPOSED LANDSCAPE PLAN
L4.0	:	PROPOSED LANDSCAPE DETAILS

BID/ PERMIT SET





DELIVERABLE: BID/PERMIT SET ISSUE DATE: **07.07.16**

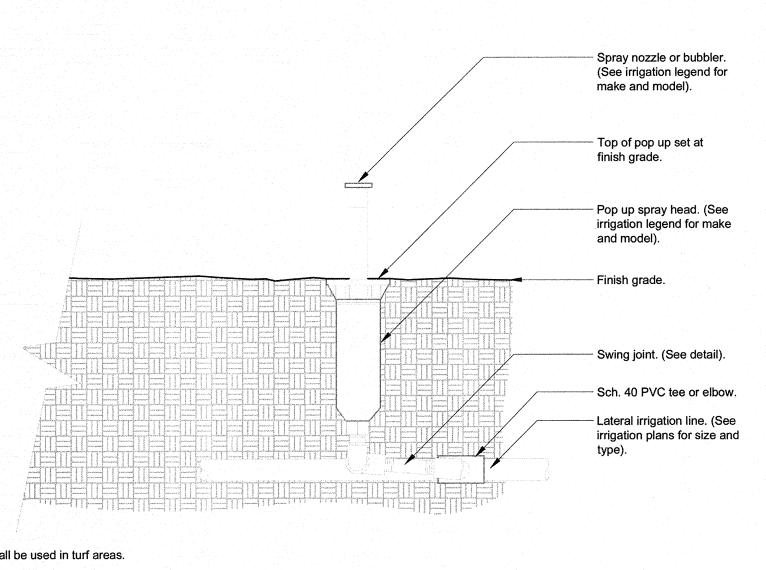
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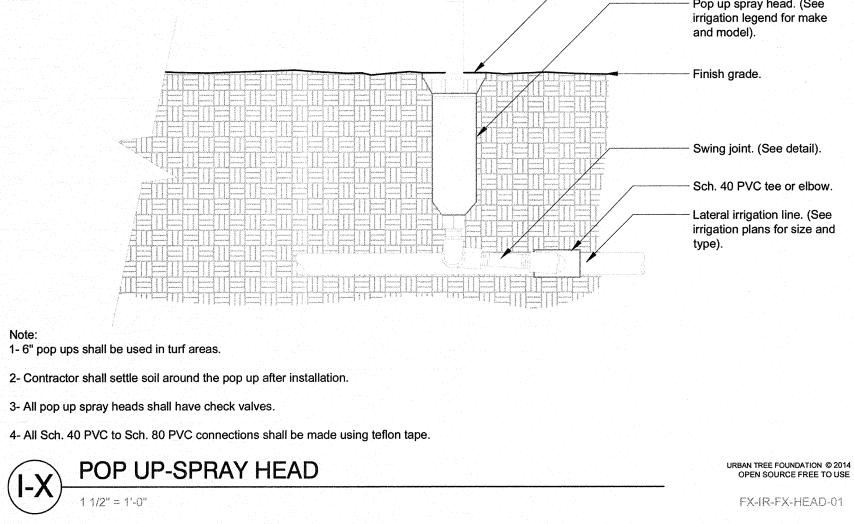
COVER SHEET

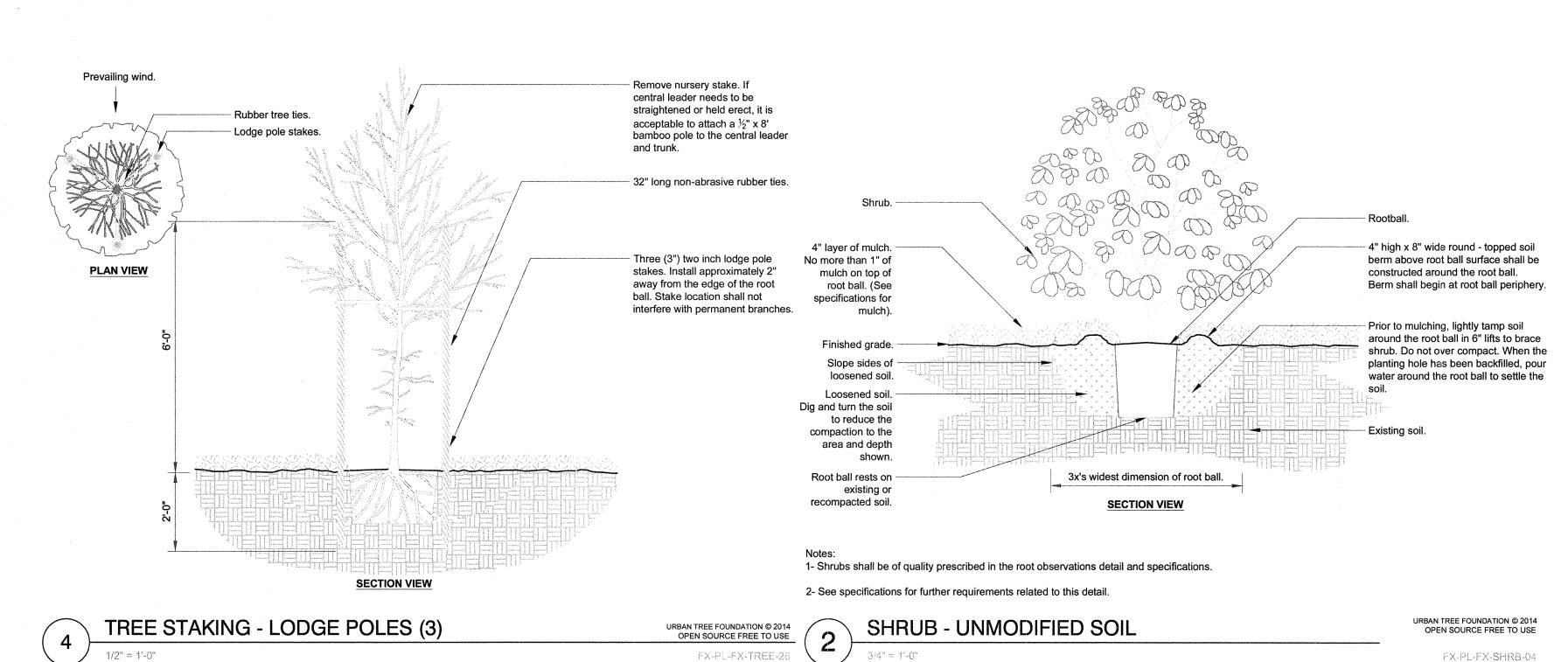
GENERAL NOTES

GENERAL SYMBOLS

SITE LOCATION

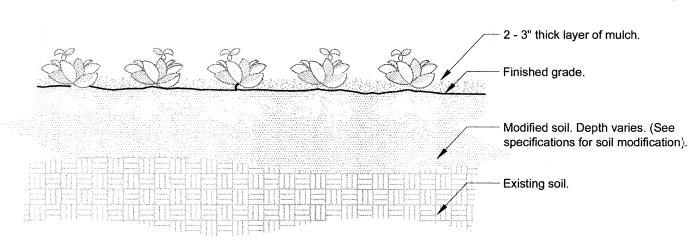


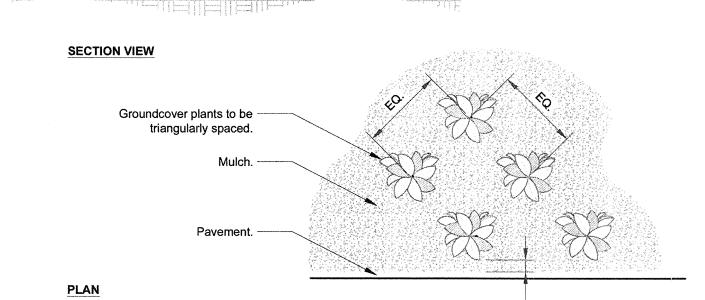




PALM AS SPECIFIED. NOTE: WATER DURING BACKFILL TO ENSURE SAND FILLS ALL 2" THICK MULCH BED VOIDS. ADD VITAMIN B 1 AT AT WATER WELL. ONE TABLESPOON PER GALLON OF WATER DURING BACKFILL. 4" HIGH WATER WELL, OMIT AT LAWN. — BACKFILL WITH 100% PURE COURSE, CLEAN BLEND TWO CUPS OF BONE MEAL INTO BOTTOM OF PLANT PIT AREA. CLEAR

PALM TREE PLANTING FX-PL-FX-TREE-19





1- See planting legend for groundcover species, size, and spacing dimension. 2- Small roots (1/4" or less) that grow around, up, or down the root ball periphery are considered a normal condition in container production and are acceptable however they should be eliminated at the time of planting. Roots on the periperhy can be removed at the time of planting. (See root ball shaving container detail).

4	GROUNDCOVER	URBAN TREE FOUNDATION © 2014 OPEN SOURCE FREE TO USE
	3/4" = 1'-0"	FX-PL-FX-GROU-01



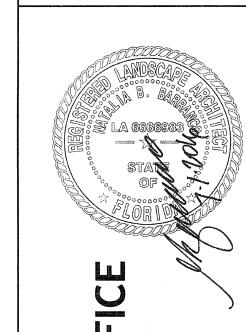
Synalovski**Romanik**Sayi Andriboten - Filenday - Interior Design

> 1800 Eller Drive, Suite 500 Fort Lauderdale, FL 33316 T 954.961.6806 F 954.961.6807

Manuel Synalovski, AIA AR 0011628 SEAL

www.synalovski.com

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Um DELIVERABLE: SCHEMATIC DESIGN

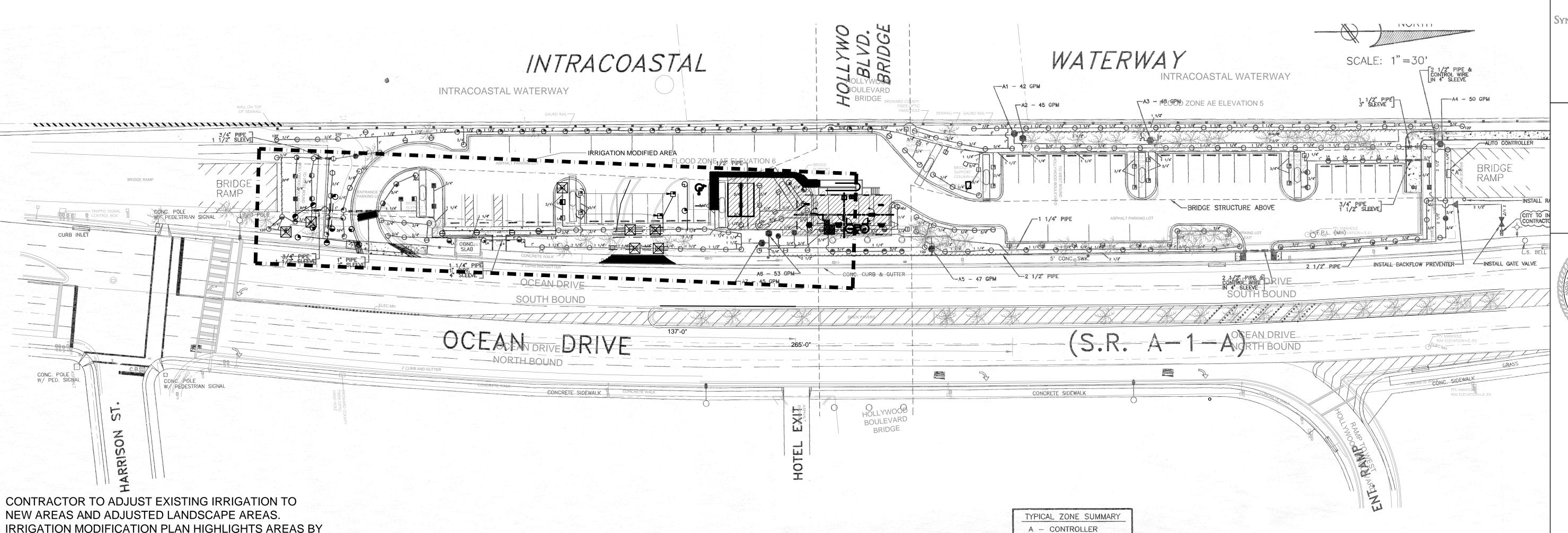
ISSUE DATE: 01.18.16

PROJECT NUMBER: 1314-151123 DRAWN BY: NB CHECKED BY: nb

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PROPOSED LANDSCAPE DETAILS

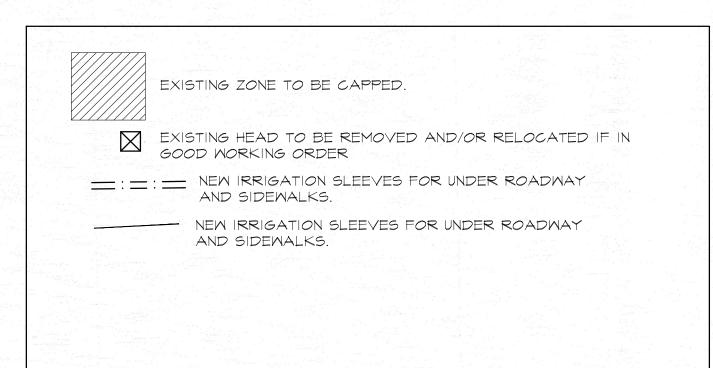
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NEW AREAS AND ADJUSTED LANDSCAPE AREAS. IRRIGATION MODIFICATION PLAN HIGHLIGHTS AREAS BY OVERLAYING EXISTING IRRIGATION PLAN TO NEW PROPOSED SITE.

PLAN ILLUSTRATES WHERE NEW SLEEVES, IRRIGATION HEADS, AND REMOVALS APPROXIMATE LOCATIONS. CONTRACTOR MAY REUSE EXISTING IRRIGATION HEADS IN NEW LOCATION IF PROPERLY WORKING.

CONTRACTOR TO TEST EXISTING IRRIGATION TO ENSURE SYSTEM IS WORKING PROPERLY. ALL EXISTING HEADS TO BE ADJUSTED TO MINIMIZE OVER-SPRAY. CONTRACTOR TO ENSURE SYSTEM HAS A RAIN SENSOR INSTALLED IF NOT PROVIDE A RAIN SENSOR.



YMBOL	MODEL No.	DESCRIPTION	*EST. QUANTITY	SYMBOL	MODEL No.	DESCRIPTION	*EST. QUANTITY
™ u	570S-10Q	TORO ADJ. SHRUB SPRAY	1				
LA	570S-10H	TORO ADJ. SHRUB SPRAY	2	⊕ LA	570HP-10H	TORO ADJ. POP-UP SPRAY (12")	7
_ _	570S-12Q	TORO ADJ. SHRUB SPRAY	1	⊘ ADJ	570HP-12ADJ	TORO ADJ. POP-UP SPRAY (12")	1 *************************************
	570S-12H	TORO ADJ. SHRUB SPRAY	1		570HP-12Q	TORO ADJ. POP-UP SPRAY (12")	3
	570S-12F	TORO ADJ. SHRUB SPRAY	7		570HP-12H	TORO ADJ. POP-UP SPRAY (12*)	10
		TORO ADJ. SHRUB SPRAY		(2)	570HP-4SST	TORO ADJ. POP-UP SPRAY (12")	3
	570S-4EST		$-\frac{1}{12}$		570HP-15ADJ	TORO ADJ. POP-UP SPRAY (12")	3
_ 🖴 —— –	-570S -4S ST	TORO ADJ. SHRUB SPRAY		()	570HP-15Q	TORO ADJ. POP-UP SPRAY (12")	4
<u> </u>	570S-15Q	TORO ADJ. SHRUB SPRAY	1	Θ	570HP-15H	TORO ADJ. POP-UP SPRAY (12")	8
B	570S-15H	TORO ADJ. SHRUB SPRAY	0		252-26-06	TORO 1 1/2" SOLENOID VALVE (24 VAC)	7
	570S-15F	TORO ADJ. SHRUB SPRAY		'A'	189-96-01	TORO VISION II CONTROLLER (9 STATION)	1
Ou	5704P-10Q	TORO ADJ. POP-UP SPRAY (4")	1	NOT SHOWN	850-74	TORO RAIN SWITCH	1
⊕ LA	5704P-10H	TORO ADJ. POP-UP SPRAY (4")	3	NOT SHOWN	850-01	TORO THICKWALLED POLY PIPE	AS REQUIRED
•	5704P-12Q	TORO ADJ. POP-UP SPRAY (4")	7	NOT SHOWN	850-31	TORO THICKWALLED POLY PIPE ELBOWS	AS REQUIRED
	5704P-12H	TORO ADJ. POP-UP SPRAY (4")	7	V	PVB-200-R	RAINBIRD PRESSURE VACUUM BREAKER	1
•	5704P-12F	TORO ADJ. POP-UP SPRAY (4")	4	NOT SHOWN	#14 AWG	DIRECT BURIAL UF WIRE	AS REQUIRED
Θ	5704P-4EST	TORO ADJ. POP-UP SPRAY (4")	2	NOT SHOWN		SCH 40 GALVANIZED STEEL	AS REQUIRED
ě	5704P-4SST	TORO ADJ. POP-UP SPRAY (4")	34	SPECIAL DELICATION OF THE PROPERTY OF THE PROP		SLEEVES SHRUB RISERS	AS REQUIRED
() ADJ	5704P-15ADJ	TORO ADJ. POP-UP SPRAY (4")	2	NOT SHOWN		FITTINGS	AS REQUIRED
O	5704P-15Q	TORO ADJ. POP-UP SPRAY (4")	8	M	G.	ATE VALVE (TO LINE SIZE)	1
	5704P-15T	TORO ADJ. POP-UP SPRAY (4")	A a a a a a a a a a a a a a a a a a a a			ALVE BOX	8
0	5704P-15H	TORO ADJ. POP-UP SPRAY (4")	86	NOT SHOWN	G	ROUNDING EQUIPMENT	AS REQUIRED
Θ	3/045-130	TORO ADD. FOR DE SERVE (4)	00				
				GENERAL STATE OF THE STATE OF T			

ELECTRICAL NOTES:

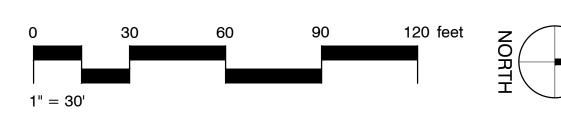
3 - STATION

48 - EST. WATER USAGE

- 1. WORK SHALL BE IN ACCORDANCE WITH THE SOUTH FLORIDA BUILDING CODE (LATEST EDITION) AND THE NATIONAL ELECTRICAL CODE (LATEST EDITION).
- - 2. ALL CONDUCTORS SHALL BE COPPER WITH THWN OR THW INSULATION IN THE MINIMUM SIZES REQUIRED.
- - 4. CONTROL WIRING SHALL CONSIST OF A COMMON NEUTRAL, A COMMON GROUND AND AN INDIVIDUAL 24V HOT WIRE TO EACH VALVE. ALL WIRE SHALL BE TYPE UF CABLE, SUITA FOR DIRECT BURIAL IN THE EARTH. CONTRACTOR TO SIZE COPPER WIRE.

IRRIGATION NOTES:

- 1. ALL IRRIGATION LINES SHALL BE A MINIMUM OF 12" BELOW FINISHES GRADE.
- 2. ALL IRRIGATION LINES AND SLEEVES SHALL BE P.V.C. SCHEDULE 40.
- 3. AS-BUILT DRAWINGS SHALL BE FURNISHED TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.
- 4. CONTRACTOR SHALL ADJUST THE SYSTEM ON THE SITE TO PROVIDE 100% COVERAGE UNDER NORMAL WIND CONDITIONS.
- 5. SPRINKLER HEADS SHALL BE MANUFACTURED BY TORO OR APPROVED EQUAL.





T 954.961.6806 F 954.961.6807

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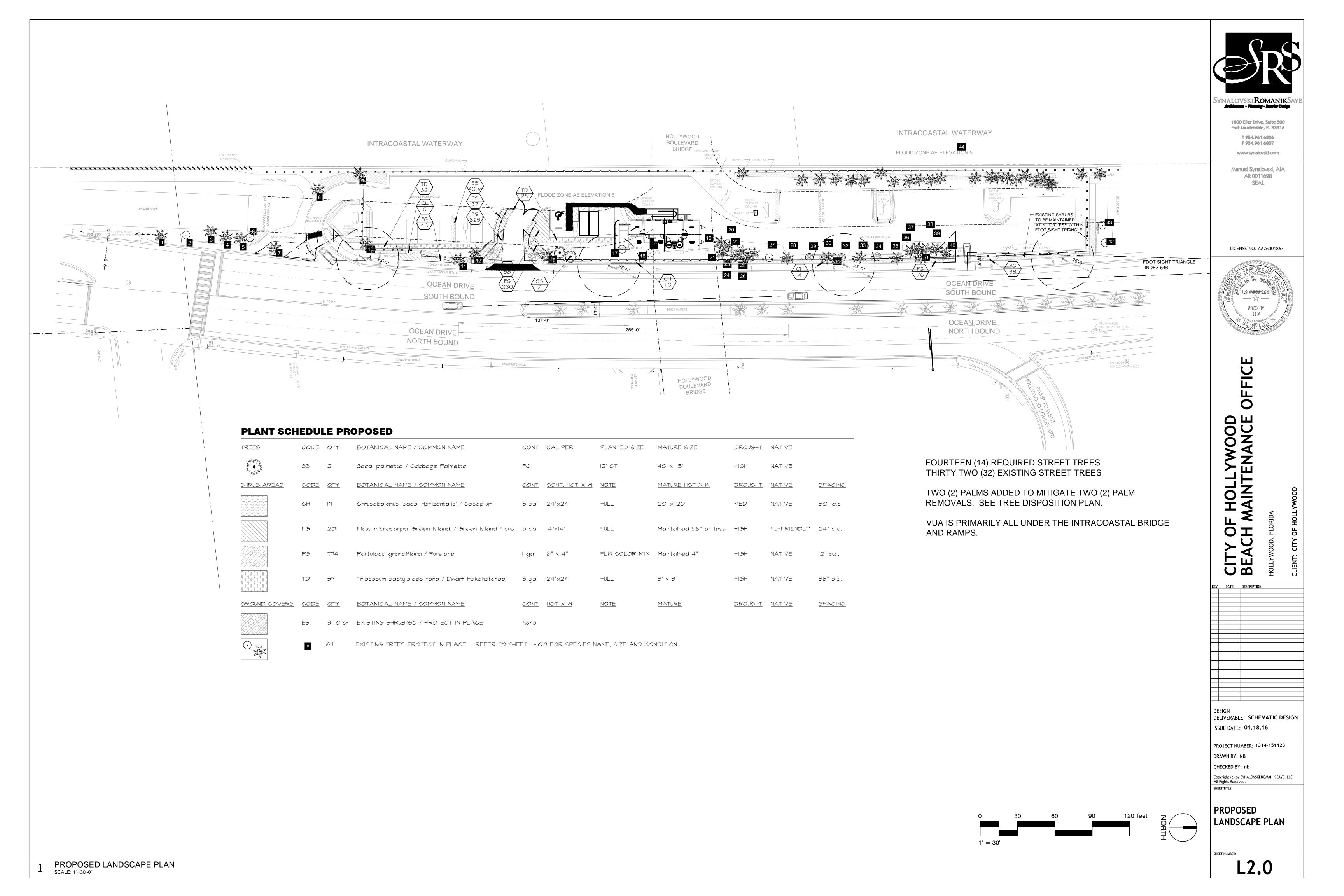


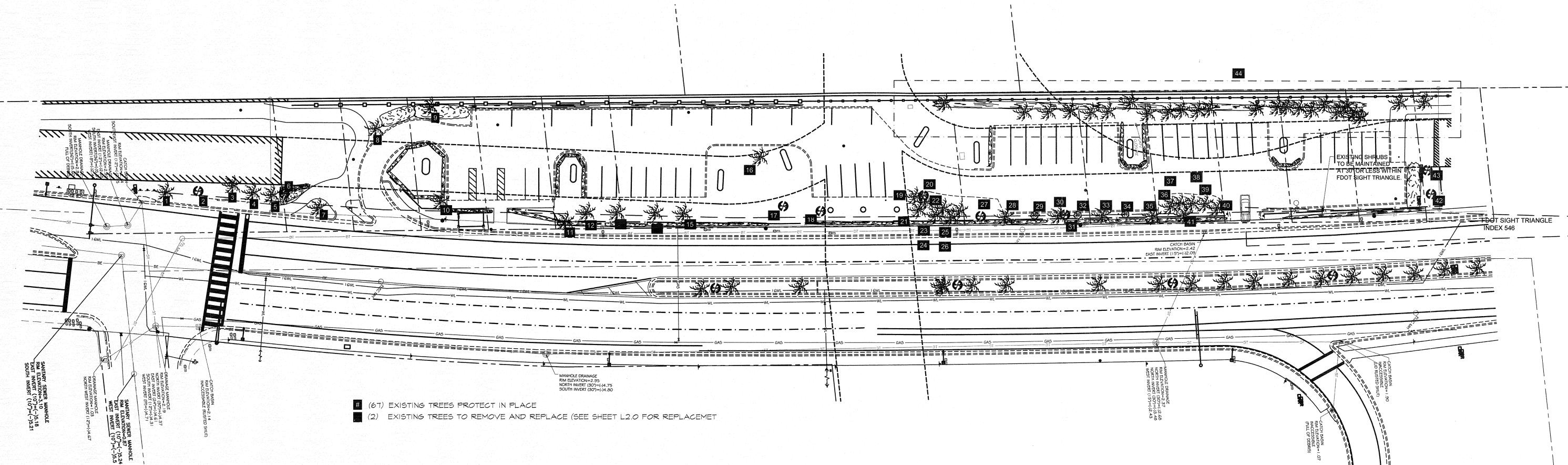
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DELIVERABLE: SCHEMATIC DESIGN ISSUE DATE: 01.18.16

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PROPOSED LANDSCAPE PLAN



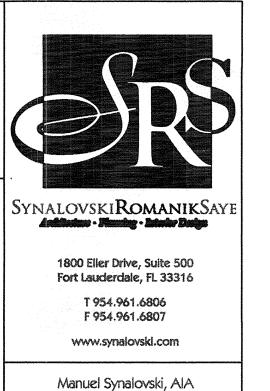


	Crown drip line or other limit of Tree Protection area. See tree preservation plan for fence alignment.	Notes: 1- See specifications for additional tree protection requirements.
	18	2- If there is no existing irrigation, see specifications for watering requirements.
	The Sold	 No pruning shall be performed except by approved arborist.
	ave 3	4- No equipment shall operate inside the protective fencing including during fence installation and removal.
	Som the stance (Then	5- See site preparation plan for any modifications with the Tree Protection area.
8.5" x 11"		Tree Protection fence: High density polyethylene fencing with 3.5" x 1.5" openings; Colororange. Steel posts installed at 8' o.c.
sign laminated in lastic spaced		2" x 6' steel posts or approved equal.
every 50' along the	KEEP OUT TREE	5" thick layer of mulch.
04	PROTECTION AREA	Maintain existing grade with the tree protection fence unless otherwise indicated on the plans.
	SECTION VIEW	

URBAN TREE FOUNDATION © 2014 OPEN SOURCE FREE TO USE

FX-PL-FX-TRMT-02

#	BOTANICAL	COMMON	SIZE	CONDITION	DISPOSITION
1	Sabal palmetto	Cabbage Palm	10' CT	80%	PIP
2	Ficus spp.	Ficus	20'x20'	65%	PIP
3	Sabal palmetto	Cabbage Palm	8' CT	80%	PIP
4	Roystonea regia	Royal Palm	20' CT	80%	PIP
5	Roystonea regia	Royal Palm	20' CT	75%	PIP
6	Conocarpus erectus sericeus	Silver Buttonwood	15'x15'	85%	PIP
7	Cocothrinax radiata	Thatch Palm	8' CT	75%	PIP
8	Cocos nucifera	Coconut Palm	15' CT	80%	PIP
9	Cocos nucifera	Coconut Palm	15' CT	80%	PIP
10	Roystonea regia	Royal Palm	30' CT	80%	PIP
11	Cocos nucifera	Coconut Palm	25' CT	80%	PIP
12	Roystonea regia	Royal Palm	15' CT	60%	PIP
13	Roystonea regia	Royal Palm	20' CT	80%	REMOVE
14	Roystonea regia	Royal Palm	20' CT	60%	REMOVE
15	Roystonea regia	Royal Palm	20' CT	60%	PIP
16	Cocos nucifera	Coconut Palm	15' CT	85%	PIP
17	Coccoloba uverifera	Seagrape Tree	30'x30'	85%	PIP
18	Coccoloba uverifera	Seagrape Tree	15' x 15'	80%	PIP
19	Coccoloba uverifera	Seagrape Tree	15' x 15'	80%	PIP
20	Sabal palmetto	Cabbage Palm	25' CT	80%	PIP
21	Sabal palmetto	Cabbage Palm	25' CT	80%	PIP
22	Sabal palmetto	Cabbage Palm	25' CT	80%	PIP
23	Sabal palmetto	Cabbage Palm	25' CT	80%	PIP
24	Sabal palmetto	Cabbage Palm	25' CT	80%	PIP
25	Sabal palmetto	Cabbage Palm	25' CT	80%	PIP
26	Sabal palmetto	Cabbage Palm	25' CT	80%	PIP
27	Clusia rosea	Autograph Tree	15' x 15'	85%	PIP
28	Roystonea regia	Royal Palm	20' CT	80%	PIP
29	Caryota mitis	Fishtail Palm	10'x10'	80%	PIP
30	Roystonea regia	Royal Palm	20' CT	80%	PIP
31	Bucida buceras	Black Olive Tree	15' x 15'	70%	PIP
32	Caryota mitis	Fishtail Palm	10'x10'	75%	PIP
33	Roystonea regia	Royal Palm	20' CT	75%	PIP
34	Caryota mitis	Fishtail Palm	10'x10'	60%	PIP
35	Roystonea regia	Royal Palm	20' CT	70%	PIP
36	Cocos nucifera	Coconut Palm	20' CT	75%	PIP
37	Cocos nucifera	Coconut Palm	20' CT	75%	PIP
38	Chamaedorea elegans	Bamboo Parlor Palm	10' Clump	70%	PIP
39	Cocos nucifera	Coconut Palm	20' CT	80%	PIP
40	Roystonea regia	Royal Palm	25' CT	80%	PIP
41	Chamaedorea elegans	Bamboo Parlor Palm	10' Clump	70%	PIP
T-	Conocarpus erectus	Damboo i anoi Faiili		7070	111
42	sericeus Conocarpus erectus	Silver Buttonwood	10' x 10'	85%	PIP
43	sericeus	Silver Buttonwood	10' x 10'	85%	PIP



LICENSE NO. AA26001863

AR 0011628 SEAL



OF HOLLYWOOD H MAINTENANCE OFFICE

REV DATE DESCRIPTION

CIENT:

DESIGN
DELIVERABLE: SCHEMATIC DESIGN
ISSUE DATE: 01.18.16

PROJECT NUMBER: 1314-151123

DRAWN BY: NB

CHECKED BY: nb

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SHEET TITLE:

TREE

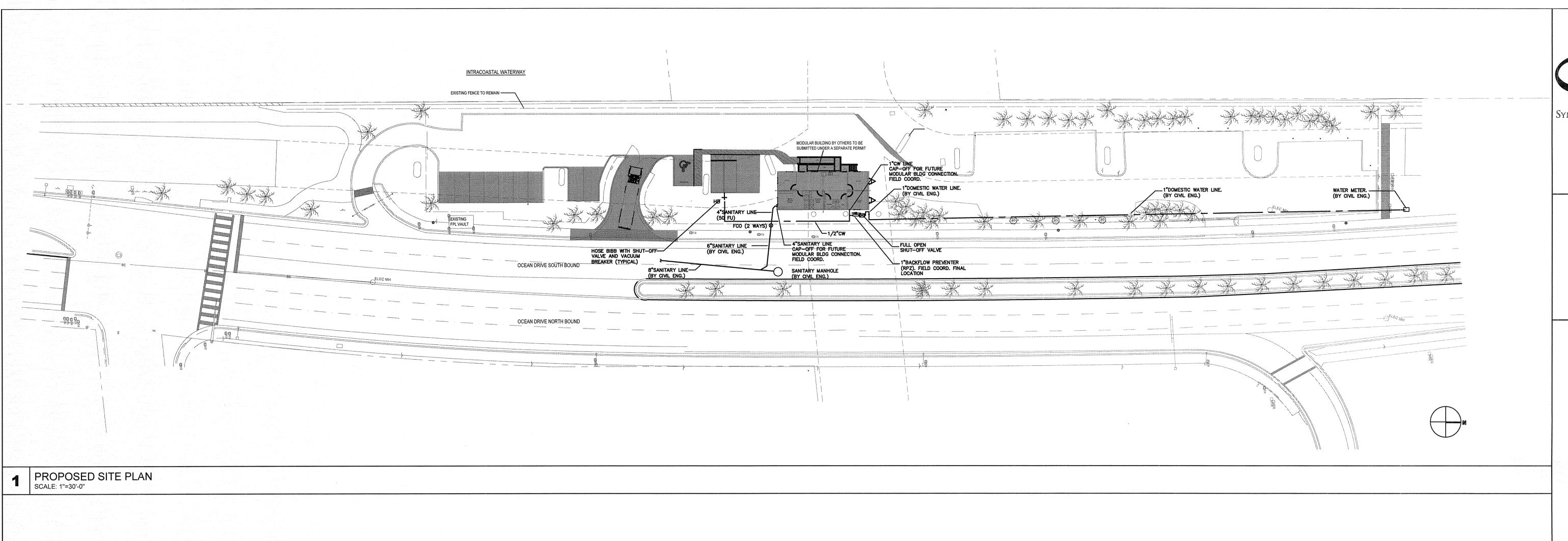
NORTH

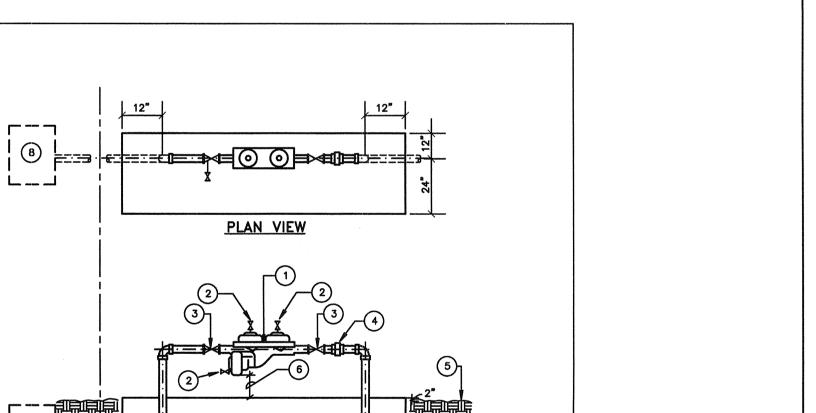
DISPOSITION PLAN

TREE DISPOSITION PLAN and INVENTORY LIST SCALE: 1"=30'-0"

TREE PROTECTION

L1.0





1 WATTS SERIES LF 909 REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY OR EQUAL (2) TEST COCK

(3) BALL VALVE (TYP)

(4) UNION

(5) FINISHED GRADE 6 12" MIN. ABOVE FLOOD LEVEL AND CONC. SLAB (7) 6" CONC. SLAB WITH #4 AT 12" E.W.

8 METER VAULT

THE ASSEMBLY SHALL BE INSTALLED WITH MINIMUM HORIZONTAL CLEARANCES OF 30 INCHES FREE FROM OBSTRUCTIONS IN SERVICE REQUIRED DIRECTIONS.

ELEVATION VIEW

GUARD..POSTS SHALL BE INSTALLED IF THE ASSEMBLY IS EXPOSED TO POSSIBLE DAMAGE FROM VEHICULAR TRAFFIC, AS DETERMINED BY AUTHORITY HAVING JURISDICTION.

3 PIPING SHALL BE AS INDICATED ON GENERAL DRAWING NOTES/PLUMBING SPECIFICATIONS.

4 ALL EXPOSED METALLIC THREADS SHALL BE PAINTED WITH BITUMASTIC PAINT. THE AUTHORITY HAVING JURISDICTION SHALL HAVE UNRESTRICTED AND CONTINUOUS ACCESS TO THE BACKFLOW PREVENTION ASSEMBLY.

REDUCED PRESSURE BACKFLOW ASSEMBLY

FOR SERVICE SIZES 3/4" THRU 2"

LEONARDO NAVEIRAS, INC. "CONSULTING ENGINEERS"

Leonardo Naveiras P.M. CA# 25830 Julio C. Vidal P.E. PE# 52792 1918 Harrison St. # 207 Hollywood, FL 33020 Phone: 954-270-4822 Fax: 954-241-6850 E-mail: hvacleo@aol.com

Synalovski**Romanik**Say Architecture • Planning • Interior Design

> 1800 Eller Drive, Suite 500 Fort Lauderdale, FL 33316 T 954.961.6806

> > F 954.961.6807 www.synalovski.com

Manuel Synalovski, AIA AR 0011628 SEAL

LICENSE NO. AA26001863

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DELIVERABLE: SCHEMATIC DESIGN ISSUE DATE: **01.18.16**

PROJECT NUMBER: 1314-151124 DRAWN BY: SH

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SHEET TITLE: SITE PLAN **PLUMBING**

P-101

PLUMBING GENERAL NOTES

1. A. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2014, PLUMBING AND WITH ALL APPLICABLE REGULATIONS.

B. DRAWINGS: REFER TO ALL DRAWINGS FOR COORDINATION OF THE PLUMBING WORK.

C. ARRANGE AND PAY FOR ALL PERMITS, LICENSES, INSPECTIONS AND TESTS. OBTAIN THE REQUIRED CERTIFICATES AND PRESENT TO OWNER.

D. GUARANTEE: THE COMPLETED INSTALLATION SHALL BE FULLY GUARANTEED AGAINST DEFECTIVE MATERIALS AND/OR IMPROPER WORKMANSHIP FOR A MINIMUM OF ONE YEAR MATERIAL AND LABOR. E. ALL HORIZONTAL SANITARY PIPING SHALL SLOPE AT 1/8 INCH PER FOOT MINIMUM FOR 3" AND LARGER AND AT 1/4" SLOPE FOR 2" PIPES AND SMALLER.

2. SHOP DRAWINGS: CONTRACTOR SHALL SUBMIT FOR APPROVAL, WITHIN 30 DAYS OF SIGNING CONTRACT, A MINIMUM OF FIVE COPIES OF FULLY DESCRIPTIVE LITERATURE, INCLUDING BUT NOT LIMITED TO: WATER HEATERS, AND PLUMBING FIXTURES. NO WORK SHALL PROCEED WITHOUT THE APPROVAL OF THESE SUBMITTALS.

3. PLUMBING FIXTURES: FIXTURES SHALL BE AS SELECTED BY OWNER AND SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. FIXTURES SHALL BE COMPLETE WITH DRAINS, TRAPS, SUPPLIES AND ANY OTHER ACCESSORY REQUIRED. FIXTURES AND FAUCETS SHALL COMPLY WITH THE FBC WATER SAVING STANDARDS.

A. PIPING: A. SOIL, WASTE AND VENT: SANITARY PIPE, PVC, DWV, SCHEDULE 40. B. DOMESTIC WATER: COPPER PIPE, TYPE L WITH SWEAT WROUGHT COPPER FITTINGS. TYPE "M" IN CONCEALED SPACES IS ACCEPTABLE. ISOLATE PIPING FROM

CONCRETE WITH INSULATING MATERIAL. CONDENSATE DRAIN: DWV PVC. D. DOMESTIC WATER SUPPLY ASSEMBLY: CHROME FINISH TUBING WITH ANGLE SHUT OFF VALVES.

E. INSULATION: INSULATE THE FIRST 8 LF. OF HW LINES COMING OUT OF THE WATER HEATER WITH 1" THICK FIBERGLASS INSULATION, WITH SELF SEALING JACKET.

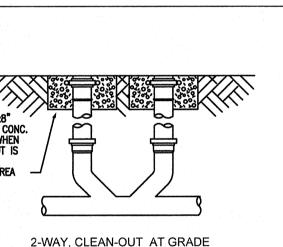
5. PIPING TEST AND DISINFECTIONS:
A. TEST: ALL SANITARY AND DOMESTIC WATER SUPPLY PIPING SHALL BE TESTED FOR LEAKS BEFORE PIPING IS CONCEALED OR CONNECTED TO EQUIPMENT AND PLUMBING FIXTURES. B. DISINFECTION: ALL DOMESTIC WATER PIPING SHALL BE DISINFECTED BY INTRODUCING A SOLUTION OF CALCIUM HYPOCHLORITE OF 50 PARTS PER MILLION OF CHLORIDE AND AS PER AWWA STANDARDS.

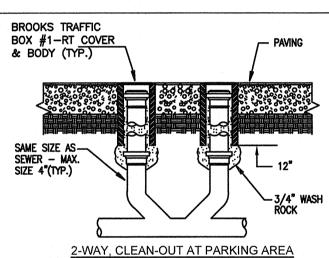
6. VALVES: DOMESTIC WATER VALVES SHALL BE OF BRONZE BODY, SWEAT ENDS. 8. ALL OUTDOORS FLOOR CLEAN OUTS SHALL BE TERMINATED UP TO GRADE AND SHALL BE MARKED. 9. PROVIDE $1/2^*$ TRAP PRIMER LINE FOR ALL FLOOR DRAINS FROM THE NEAREST PLUMBING FIXTURE, USE AUTOMATIC TRAP PRIMER AS PPP P1-500 DU-3 WITH INTEGRAL BACKFLOW PREVENTER AND VACUUM BREAKER.

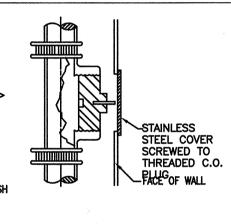
10. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF SANITARY, AND DOMESTIC WATER PIPING BEFORE STARTING ANY WORK. NOTIFY ARCHITECT/ENGINEER OF ANY DEVIATIONS FROM DESIGN DRAWNGS.

12"x12"x8"
POURED CONC.
BLOCK WHEN
CLEANOUT IS
NOT IN
PAVED AREA 2-WAY, CLEAN-OUT AT GRADE

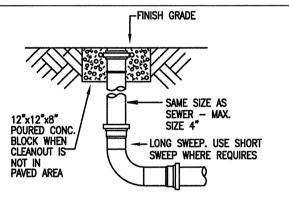
SCALE: N.T.S.

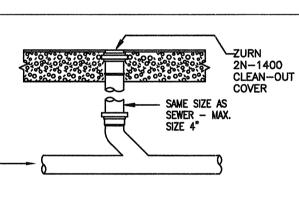






WALL-TYPE CLEAN-OUT



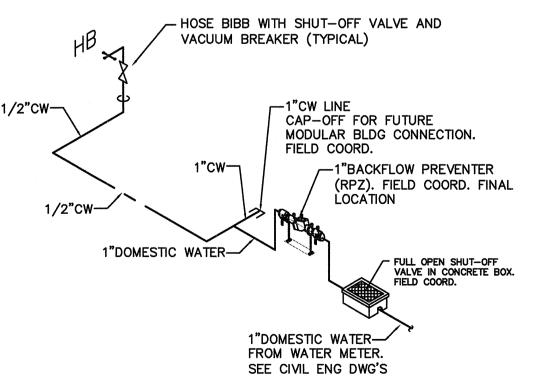


1-WAY, CLEAN-OUT AT GRADE 1-WAY, INTERIOR CLEAN-OUT

TYPICAL CLEAN- OUT DETAILS. SCALE: N.T.S.

4"SANITARY LINE CAP-OFF FOR FUTURE MODULAR BLDG CONNECTION. 8"SANITARY LINE FIELD COORD. (BY CIVIL ENG.) 6"SANITARY LINE-(BY CIVIL ENG.) SANITARY MANHOLE (BY CIVIL ENG.)

SANITARY PIPING ISOMETRIC



3 WATER PIPING ISOMETRIC

1/2"CW-

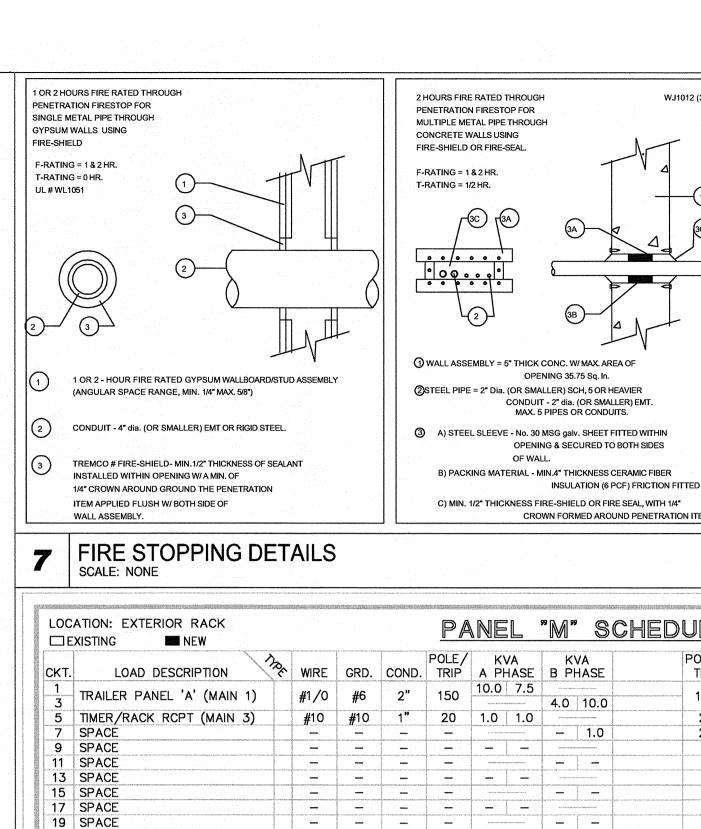
- 1. MATERIALS AND INSTALLATION, AS A MINIMUM, ARE TO CONFORM WITH THE 2011 EDITION OF THE NATIONAL ELECTRIC CODE, 2010 N.F.P.A. 72, 2012 N.F.P.A. 101, 2014 FLORIDA FIRE PREVENTION CODE, 2010 AND 2014 F.B.C., LOCAL CODES AND ORDINANCES, INCLUDING ALL AMENDMENTS TO THE N.E.C. EQUIPMENT, WHERE APPLICABLE, WILL BE LISTED WITH THI UNDERWRITERS LABORATORIES, INC. QUALITY AND WORKMANSHIP ESTABLISHED BY DRAWINGS AND SPECIFICATIONS ARE NOT TO BE REDUCED BY THE ABOVE MENTIONED CODES. 2. BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND
- SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF WORK. THE SUBMISSION OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR LABOR. EQUIPMENT, OR MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION BEEN MADE, WILL NOT BE ALLOWED.
- 3. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST-CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM IS TO BE FULLY OPERABLE AND ACCEPTANCE OF THIS SYSTEM BY THE ENGINEER MUST BE A CONDITION OF THE SUB CONTRACT.
- 4. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- 5. CONTRACTOR TO GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE.
- 6. CORRECTION OF ANY DEFECTS TO BE COMPLETED WITHOUT ADDITIONAL CHARGE AND TO INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREB'
- 7. ALL REQUIRED INSURANCE TO BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY OF
- PROPERTY DAMAGE FOR THE DURATION OF THE WORK. 8. CONTRACTOR TO PAY FOR ALL PERMITS, FEES INSPECTIONS AND TESTINGS.
- 9. ELECTRICAL INSTALLATION TO MEET ALL STANDARD REQUIREMENTS OF LOCAL POWER AND TELEPHONE COMPANIES. THE ELECTRICAL CONTRACTOR SHALL MEET AND COORDINATE WITH THE LOCAL POWER AND TELEPHONE COMPANIES AT THE SITE PRIOR TO CONSTRUCTION. AT THAT TIME, THE CONTRACTOR SHALL COORDINATE ALL RELATED WORK WITH THE UTILITY COMPANY'S RESPONSIBILITIES TO MEET THE OWNER'S SCHEDULE.
- 12. ALL WIRING SHALL BE IN CONDUIT UNLESS OTHERWISE NOTED, MINIMUM WIRE SIZE SHALL BE #12 AWG, EXCLUDING CONTROL WIRING. ALL CONDUCTORS SHALL BE COPPER WITH THWN/THHN INSULATION. CONDUCTORS #10 AND SMALLER MAY BE SOLID; ALL THOSE #8 AND LARGER TO BE STRANDED.
- 14. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS, AND BE OF SPECIAL CONSTRUCTION FOR OTHER CLASSIFIED AREAS. ALL BOXES SHALL BE RECESSED (FLUSH) IN WALLS OR CEILINGS WHENEVER POSSIBLE.
- 16. DISCONNECT SWITCHES SHALL BE H.P. RATED, GENERAL DUTY, QUICK-MAKE, QUICK-BREAK TYPE ENCLOSURES SHALL BE AS REQUIRED BY N.E.C. AND LOCATION (WEATHERPROOF, EXPLOSION PROOF, ETC.). ENGRAVED LAMINATED PLASTIC IDENTIFICATION PLATES SHALL BE FURNISHED AND INSTALLED ON ALL DISCONNECT SWITCHES, CONTACTORS AND STARTERS.
- 17. ALL FUSES FOR SAFETY SWITCHES SHALL BE DUAL ELEMENT, CARTRIDGE TYPE. FUSES SHALL BE THOSE MANUFACTURED BY EITHER BUSSMAN OR LITTLEFUSE. THE CONTRACTOR SHALL FURNISH TO THE OWNER ONE SPARE FUSE FOR EACH SIZE AND TYPE OF FUSE INSTALLED. FUSES 600 AMPS OR LESS SHALL BE CLASS RK1, TYPICAL UNLESS OTHERWISE NOTED.
- 18. ALL GENERAL PURPOSE SWITCHES AND RECEPTACLES SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER. CATALOG NUMBERS LISTED ARE LEVITON: HOWEVER, COMPARABLE DEVICES BY PASS & SEYMOUR, BRYANT, OR ARROW HART WILL BE ACCEPTED. COLOR OF DEVICES AND PLATES SHALL BE DICTATED BY ARCHITECT/OWNER.
- A. SWITCHES: LEVITON #CSB1-201 B. RECEPTACLES: LEVITON #BR20-I C. COVER PLATES: SMOOTH PLASTIC
- NOTE: ALL OTHER REQUIRED DEVICES SHALL MATCH IN COLOR AND STYLE
- 19. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM, AND PROVIDE ALL NECESSARY DEVICES AND COMPONENTS FOR EQUIPMENT BE PLACED IN PROPER WORKING ORDER.
- 20. A SEPARATE, GREEN TYPE THWN COPPER GROUND CONDUCTOR SHALL BE RUN FROM GROUND LUC OF EACH GROUNDED RECEPTACLE TO AN APPROVED CONNECTION INSIDE THE ENCLOSING STEEL OUTLET BOX, DEVICE MOUNTING SCREWS SHALL NOT BE CONSIDERED AN APPROVED GROUND.
- A SEPARATE GROUND CONDUCTOR SHALL BE INSTALLED IN EVERY CONDUIT AND RACEWAY AND SECURELY BONDED IN AN APPROVED GROUNDING TERMINAL AT BOTH ENDS OF THE RUN. THE GROUNDING CONDUCTOR SHALL BE SIZED IN ACCORDANCE WITH TABLE 250-122 OF THE N.E.C. CONTRACTOR SHALL SIZE CONDUIT TO ACCOMMODATE ADDITIONAL CONDUCTOR.
- 21. LOAD DATA IS BASED ON INFORMATION GIVEN TO THE ENGINEER AT THE TIME OF DESIGN. VERIFY ALL EQUIPMENT NAMEPLATE RATINGS BEFORE ORDERING.
- 22. CIRCUITS SHOWN ON PLANS ARE TO DETERMINE LOAD DATA AND PANEL SIZES. THE CONTRACTOR IS TO PROVIDE CIRCUITS AND ROUTING OF CONDUITS TO SUIT JOB CONDITIONS.
- 23. FURNISH AND INSTALL DISCONNECT SWITCHES, WIRING, AND CONNECTIONS ON AIR CONDITIONING SYSTEM AS SHOWN ON PLANS FLECTRICAL CONTRACTOR SHALL VERIFY AND COORDINATE WITH MECHANICAL CONTRACTOR REGARDING SUPPLY AND INSTALLATION OF ALL REQUIRED CONTROLS.
- 24. ALL FLUORESCENT LIGHT FIXTURES SHALL HAVE IN LINE FUSING AND ENERGY SAVING BALLASTS. (ONLY REQUIRED IN MIAMI DADE COUNTY). ALL BALLASTED LIGHT FIXTURES SHALL HAVE DISCONNECTING MEANS IN COMPLIANCE WITH NEC ART. 410.130.
- 25. ALL PANELS, CONTACTORS ETC., SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER, THE SYSTEM DESIGN IS BASED ON SQUARE "D"; HOWEVER, COMPARABLE EQUIPMENT BY G.E. & SIEMENS ONLY WILL BE ACCEPTABLE.
- 26. TYPEWRITTEN CIRCUIT INDEX SHALL BE AFFIXED TO INSIDE SURFACE OF EACH PANELBOARD DOOR, CLEARLY INDICATING AREA AND TYPE OF LOAD SERVED BY EACH BRANCH CIRCUIT PROTECTIVE DEVICE, INCLUDING SPARES. HAND PRINTED WILL NOT BE ACCEPTED.
- 27. ENGRAVED, LAMINATED PLASTIC IDENTIFICATION PLATES SHALL BE FURNISHED AND INSTALLED ON ALL PANELS AND SWITCHGEAR. PLATES SHALL BE AFFIXED TO FRONT OF PANELS, INDICATING PANEL NAME, VOLTAGE AND AMPERAGE.
- 28. ALL CONDUIT RISERS SHALL BE GALVANIZED STEEL (GRS). WHERE CONDUIT BENDS UPWARD FROM UNDERGROUND TO ABOVE GROUND, USE AN APPROVED PVC TO GRS COUPLING. GRS CONDUITS SHALL EXTEND A MINIMUM OF 18" BELOW GRADE.
- 29. ALL UNDERGROUND PVC CONDUIT RUNS SHALL HAVE RIGID STEEL ELBOWS AND RIGID STEEL SECTIONS AT SLAB PENETRATIONS WHERE SUBJECT TO POSSIBLE DAMAGE. WHERE RIGID STEEL IS USED, IT SHALL BE COMPLETELY COATED WITH AN ALKALI AND RUST-RESISTANT BITUMASTIC PAINT, KOPPERS NO. 50, AND THREADS SHALL BE COATED WITH ZINC CHROMATE. FOR UNDERGROUND ELECTRICAL CONDUITS, PROVIDE PULL BOXES SUCH THAT NO SINGLE CONDUIT RUN HAS BENDS IN EXCESS OF 360 DEGREES, OR 180 DEGREES FOR TELEPHONE. PULLBOXES SHALL BE SUITABLE AND APPROVED FOR THE INTENDED USE AND WITH IRON COVERS. WARNING TAPES WHICH READ "WARNING-BURIED ELECTRIC" SHALL BE PLACED IN TRENCHES ABOVE ALL ELECTRIC CONDUITS. WHERE CONDUITS PASS UNDER PAVED AREAS, THEY SHALL BE PVC SCHEDULE 80 ENCASED IN CONCRETE OR DIRECT BURIED GRS. WHERE UNDERGROUND CONDUITS ARE NOT EXPOSED TO MECHANICAL DAMAGE OR ARE NOT UNDER PAVED AREAS, THEY SHALL BE PVC SCEDULE 80. ELBOWS AND RISERS SHALL BE GRS.
- 30. ALL ELECTRICAL CONDUCTORS SHALL BE INSTALLED IN AN APPROVED RACEWAY, EMT, IMC, RIGID GALVANIZED CONDUIT, SCHEDULE 80 P.V.C. OR PREMANUFACTURED 'MC' CABLING. THERE SHALL BE NO TYPE 'NM' OR ELECTRICAL NON-METALLIC TUBING USED FOR BRANCH CIRCUITING. USE LIQUID TIGHT FLEXIBLE CONDUIT WHERE REQUIRED AND FLEXIBLE METALLIC CONDUIT WHERE REQUIRED IN DRY LOCATIONS ONLY. ALL CONDUITS IN HAZARDOUS AREAS (PER NEC) SHALL MEET THE REQUIREMENTS OF NEC CHAPTER 5. MAXIMUM NUMBER OF 120V CIRCUITS ALLOWED IN A COMMON CONDUIT SHALL BE THREE (3). THE CONTRACTOR SHALL STRICTLY CONFORM TO THE N.E.C. REQUIREMENTS OF DERATING FOR CONDUCTOR AMPACITY AND CONDUIT FILL.
- 31. CONDUCTORS SHALL BE COLOR CODED AS FOLLOWS: 208V SYSTEM 240V SYSTEM 480V SYSTEM NEUTRAL - GREY ABC, TOP TO BOTTOM NEUTRAL - WHITE PHASE A - BLACK PHASE A - BROWN LEFT TO RIGHT, FRONT PHASE B - RED PHASE C - BLUE PHASE B - PURPLE TO BACK PHASE C - YELLOW PHASE C - BLUE GRD.CON - GREEN
- GRD.CON GREEN GRD.CON - GREEN 32. CONTRACTOR IS RESPONSIBLE FOR SEALING ALL CONDUIT PENETRATIONS MADE THROUGH FIRE RATED
- WALLS, CEILINGS, SLABS, ETC. PENETRATION SEALS SHALL BE PER U.L. ASSEMBLY STANDARDS. 35. CONTRACTOR SHALL PROVIDE ACCURATE AS-BUILT DRAWINGS AND EQUIPMENT OPERATION MANUALS TO THE BUILDING OWNER PRIOR TO FINAL ACCEPTANCE OR CLOSEOUT IN ACCORDANCE WITH F.B.C. ENERGY CONSERVATION, 2014 EDITION, ARTICLE 505.7.4.

37. ALL PANELBOARD FEEDERS SHALL BE SIZED NOT TO EXCEED 2% VOLTAGE DROP AND ALL

- BRANCH CIRCUITS SHALL BE SIZED NOT TO EXCEED 3% VOLTAGE DROP PER F.B.C. ENERGY CONSERVATION, 2014 EDITION, ARTICLES 505.7.3.1 & 505.7.3.2. 38. LIGHTING CONTROL SHALL BE BASED UPON F.B.C. ENERGY CONSERVATION, 2014 EDITION, C405.
- 39. LIGHTING PERFORMANCE CALCULATIONS SHALL BE BASED UPON F.B.C. 2014 EDITION, ARTICLE C405 WHERE SPACE BY SPACE METHOD PRESCRIBED IN C405.5.2 SHALL BE USED. 40. ALL EXIT AND EMERGENCY LIGHTING SHALL HAVE BATTERY BACK-UP AND COMPLY WITH NEC
- 700.12(F) AND SHALL BE OPERABLE AT TIME OF INSPECTION. 41. LOW VOLTAGE PERMIT TO BE APPLIED FOR SEPARATELY, SEE EQUIPMENT DRAWINGS FROM

OR WITHOUT THE LOCK INSTALLED. THIS APPLIES TO HAND DRYER BRANCH CIRCUITS.

SYSTEMS VENDOR FOR DETAILS OF LOW VOLTAGE EQUIPMENT LOCATIONS. 45. CIRCUIT BKR DISCONNECTING MEANS SHALL BE IN ACCORDANCE WITH ART. 422.31(B)&(C) OF THE 2011 N.E.C. WHERE THE BRANCH CIRCUIT BREAKER IS CAPABLE OF BEING LOCKED IN THE OPEN POSITION. THE PROVISION FOR LOCKING OR ADDING A LOCK TO THE BREAKER SHALL BE INSTALLED ON OR AT THE BREAKER USED AS THE DISCONNECTING MEANS AND SHALL REMAIN IN PLACE WITH



21 SPACE

23 SPACE

25 SPACE

27 SPACE 29 SPACE

FEEDER SIZE IS:

MOUNTING:

ENCLOSURE

ALL FEEDER CALCULATIONS ARE BASED ON: THHN/THWN CU.

RATED VOLTAGE= 120/240 VOLTS 1 PHASE

SURFACE

FUSED

A=400 d=265 R=.0399

ELECTRICAL SITE PLAN

SCALE: 1" = 30'-0"

VOLTAGE DROP CALCS:

 $%Vd = \frac{0.2 \text{ (A)(d)}}{Va} \times [OHMS/kFT]$

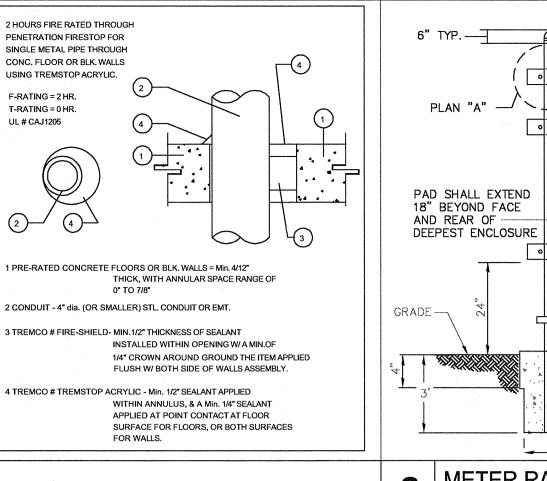
PNL 'A':

=> %Vd=3.52 => %Vd=0.318 => %Vd=0.397

S = SAME AS ITEM OR DEVICE AS ABOVE

NOT MORE THAN 4 CONDUCTORS IN A RACEWAY

TOTAL CONNECTED LOAD= 143.8 AMPS



SPEC: SQUARE 'D' OR EQUAL

TRAILER PANEL 'B' (MAIN 2)

MAINTENANCE RCPT (MAIN 4)

MAINTENANCE RCPT (MAIN 5)

SPACE

SPACE

SPACE

SPACE

SPACE

SPACE

SPACE

SPACE

CIRCUIT TYPE

ST SHUNT TRIP ST GROUND FAULT SE DEDICATED S ISOLATED GRD.

☐ BREAKER:

EQUIPMENT ISOLATED BOTH

SERVICE CALCS - PNL 'M':

LTG @ 125% (1.3 x 1.25)

WTR HTRS @ 100% (4.5 x 1.0)= 4.5kVA

HVAC @ 100% (20.0 x 1.0) = 20.0kVA

EQUIP @ 100% (3.0 x 1.0) = 3.0kVA

RCPTS: 1ST 10kVA @ 100% = 6.0kVA

BALANCE @ 50% (0.0 x 0.5) = 0.0kVA

TOTAL = 35.1kVA => 146.3A

BOTTOM

BRANCH BREAKERS=

BRANCH POLES: 30

FEED LOCATION : TOP

400A

BUS RATING:

GROUND BAR:

MAINS:

15.0

EQPT. GRD. ISOL. GRD.

BUSWAY =

☐ KEYED DOOR:

 \square KRATED (2.0)

) CLASS ? () DIV ?

SPECIAL NOTES: ** - EXISTING SPARE BREAKER WITH NEW LOAD

AIC (WORST CASE), 240V SYSTEM

66,644A SYM FOR 167.0kVA XFMR WITH Z=1.6%

 $f = \frac{2.0 \times L \times I}{2}$; $M = \frac{1}{1+f}$; $Isc = M \times I$

FAULT CURRENT CALCS:

34.5 KVA

143.8 AMPS

146.3 AMPS

SUBTOTAL 19.5

TOTAL

ESTIMATED DEMAND LOAD=

 \square KRATED (1.5)

☐ NEMA 4X

3 WIRE

RISER

CB PLUG IN CB BOLT IN

PNL 'B':

COPPER BUS
ALUMINUM BUS

POLE TRIP TYPE

☐ FEED THRU

☐ EMERGENCY ☐ UNINTERRUPTABLE

22 KAIC

22 KAIC

TRAILER PNL 'A' CALCS:

 $_{\text{-TG}}$ @ 125% (1.0 x 1.25) = 1.3kVA

WTR HTRS @ 100% (0.0 x 1.0) = 0.0kVA

HVAC HEAT @ 100% (10.0x1.0) =10.0kVA

EQUIP @ 100% (3.0 x1.0) = 3.0kVA

RCPTS: 1ST 10kVA @ 100% = 0.0kVA

BALANCE @ 50% (0 x 0.5) = 0.0kVA

TOTAL = 14.3kVA => 59.6A @ 240V, 1Ø

LTG @ 125% (0.0 x 1.25) = 0.0kVA

WTR HTRS @ 100% (4.5 x 1.0) = 4.5kVA

HVAC HEAT @ 100% (10.0x1.0) =10.0kVA

EQUIP @ 100% (0.0 x1.0) = 0.0kVA

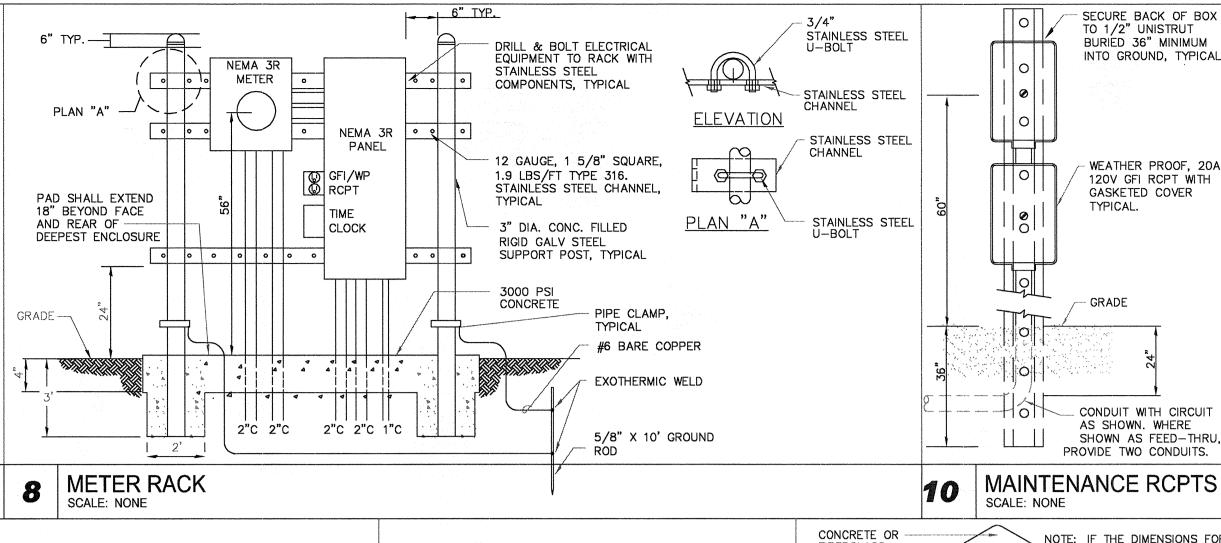
RCPTS: 1ST 10kVA @ 100% = 3.0kVA

BALANCE @ 50% (0 x 0.5) = 0.0kVA

TOTAL= 17.5kVA => 72.9A @ 240V, 10

TRAILER PNL 'B' CALCS:

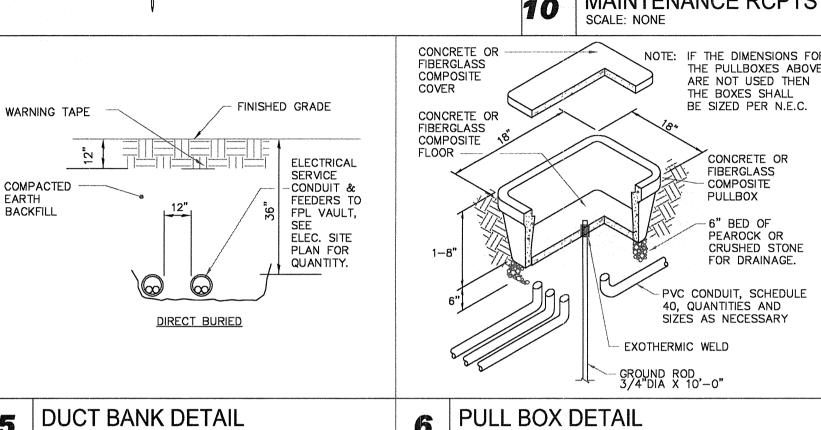
WJ1012 (377)



COMPACTED

FARTH

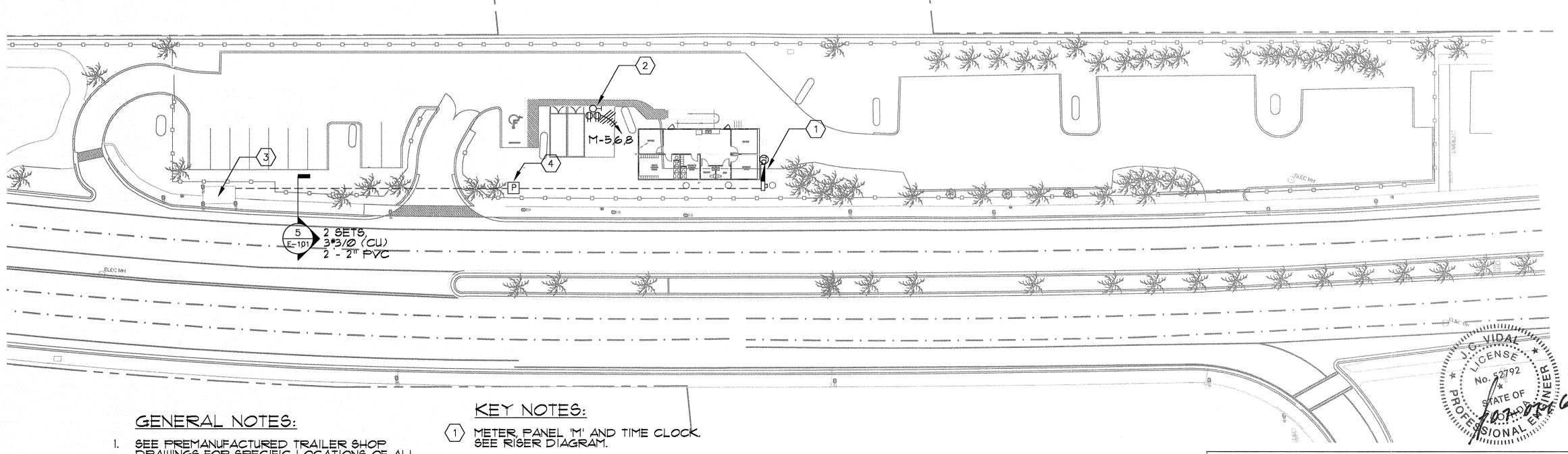
BACKFILL



DUCT BANK DETAIL SCALE: NONE SCALE: NONE 120V, SURFACE MOUNTED FIXTURE PNL 'A' (TRAILER) (EXTERIOR) WITH DIFFUSED LENSE, 32W SHEET NUMBER COMPACT FLUORESCENT LAMP 120/240V MTR AND ELECTRONIC BALLAST, DETAIL SECTION 1ø,3W 1ø,3W 1ø,3W 400A VANDAL RESISTANT 400A 200A 200A MLO MLO MLO ELECTRICAL DISCONNECT TIME CLOCK 240V, 22kAIC 22kAlC 22kAIC NEMA 3R FOR EXTERIOR D.P.S.T, 40A. AND NEMA 1 FOR INTERIOR. . 45A (FUSE SIZE) TO FPL PULLBOX 60A (FRAME SIZE) PULLBOX DUPLEX RECEPTACLE (20A, +18" A.F.F, U.O.N.) — — — — BY OTHERS ELECTRICAL METER GROUND FAULT ALL ELECTRICAL EQUIPMENT SHALL BE LABELED TO INDICATE POTENTIAL ELECTRIC ARC FLASH HAZARDS PER NEC 110.16 HOMERUN TO PANEL CIRCUIT INTERRUPTER (PANEL LA CIRCUITS LA-2,4 WEATHER PROOF 2,4 INDICATED) 2-3/4" X 10' CU = RODS 6 FT APART

SCALE: NONE

=> lsc=10,604 => lsc=8,914 => lsc=8,572 ELECTRICAL RISER, PANEL SCHEDULE AND CALCULATIONS SCALE: NONE



SEE PREMANUFACTURED TRAILER SHOP DRAWINGS FOR SPECIFIC LOCATIONS OF ALL WIRING DEVICES AND EGRESS AND EMERGENCY LIGHTING FIXTURES.

- LIGHTING FIXTURE VIA TIME CLOCK ADJACENT TO PANEL 'M'.
- FPL VAULT. COORDINATE CONNECTION WITH ERIC DOAN, FPL, 954-442-6369 OR NANCY DIAZ-QUINONEZ, FPL, 954-442-6337.

(4) PULLBOX AS NECESSARY.

SynalovskiRomanikSaye

1800 Eller Drive, Suite 500 Fort Lauderdale, FL 33316 T 954.961.6806 F 954.961.6807

Manuel Synalovski, AIA AR 0011628

LICENSE NO. AA26001863

0 **5 Z** IS 0

Um

DELIVERABLE: BID/PERMIT SET ISSUE DATE: **07.07.16**

PROJECT NUMBER: 1314-151123 DRAWN BY: DP CHECKED BY: JV Copyright (c) by SYNALOVSKI ROMANIK SAYE, LLC All Rights Reserved.

ELECTRICAL

Leonardo Naveiras P.M. CA# 25830 PE# 52792 1918 Harrison St. # 207 Hollywood, FL 33020 Phone: 954-270-4822 Fax: 954-241-6850 E-101

LEONARDO NAVEIRAS, INC.

"CONSULTING ENGINEERS"

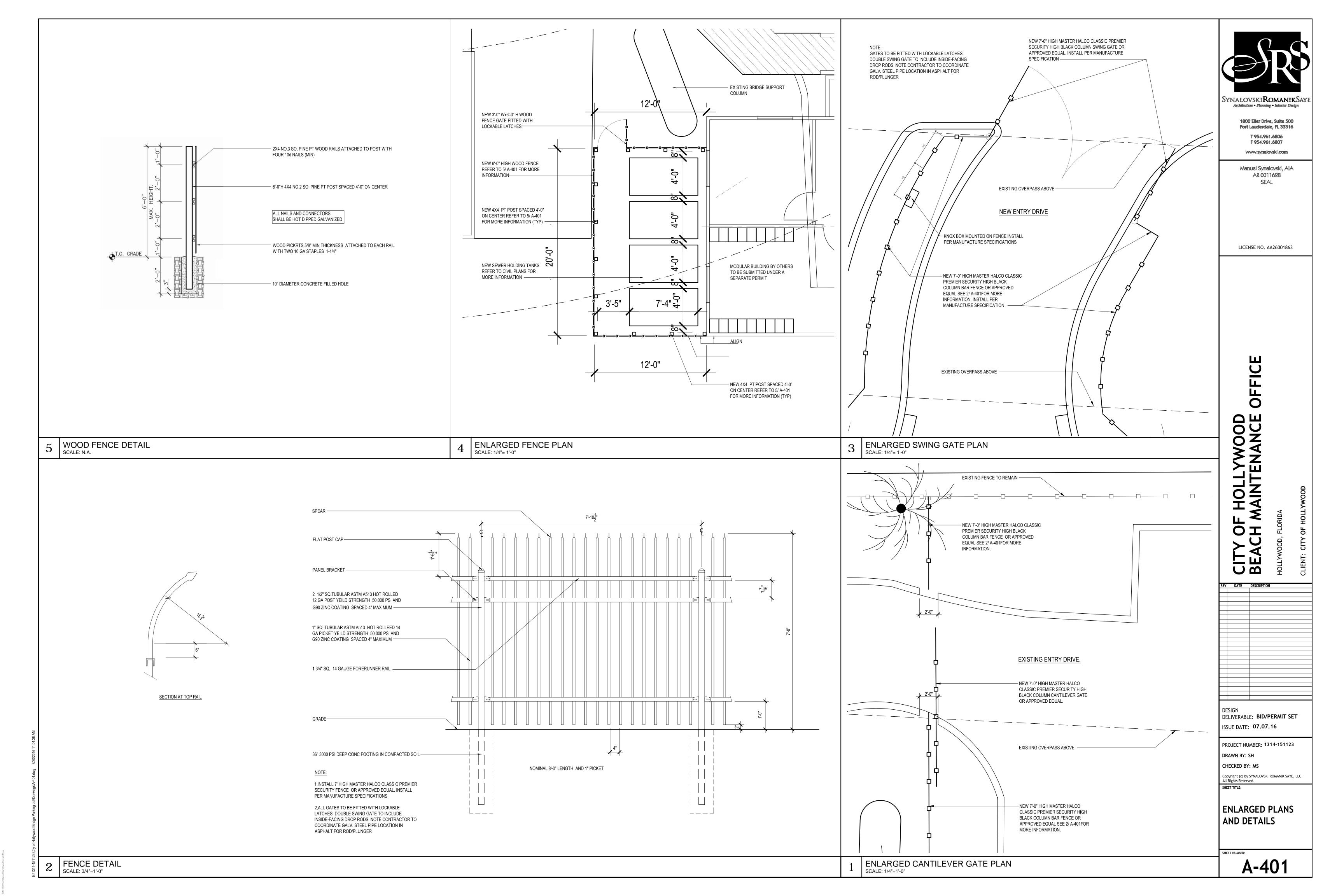
Julio C. Vidal P.E.

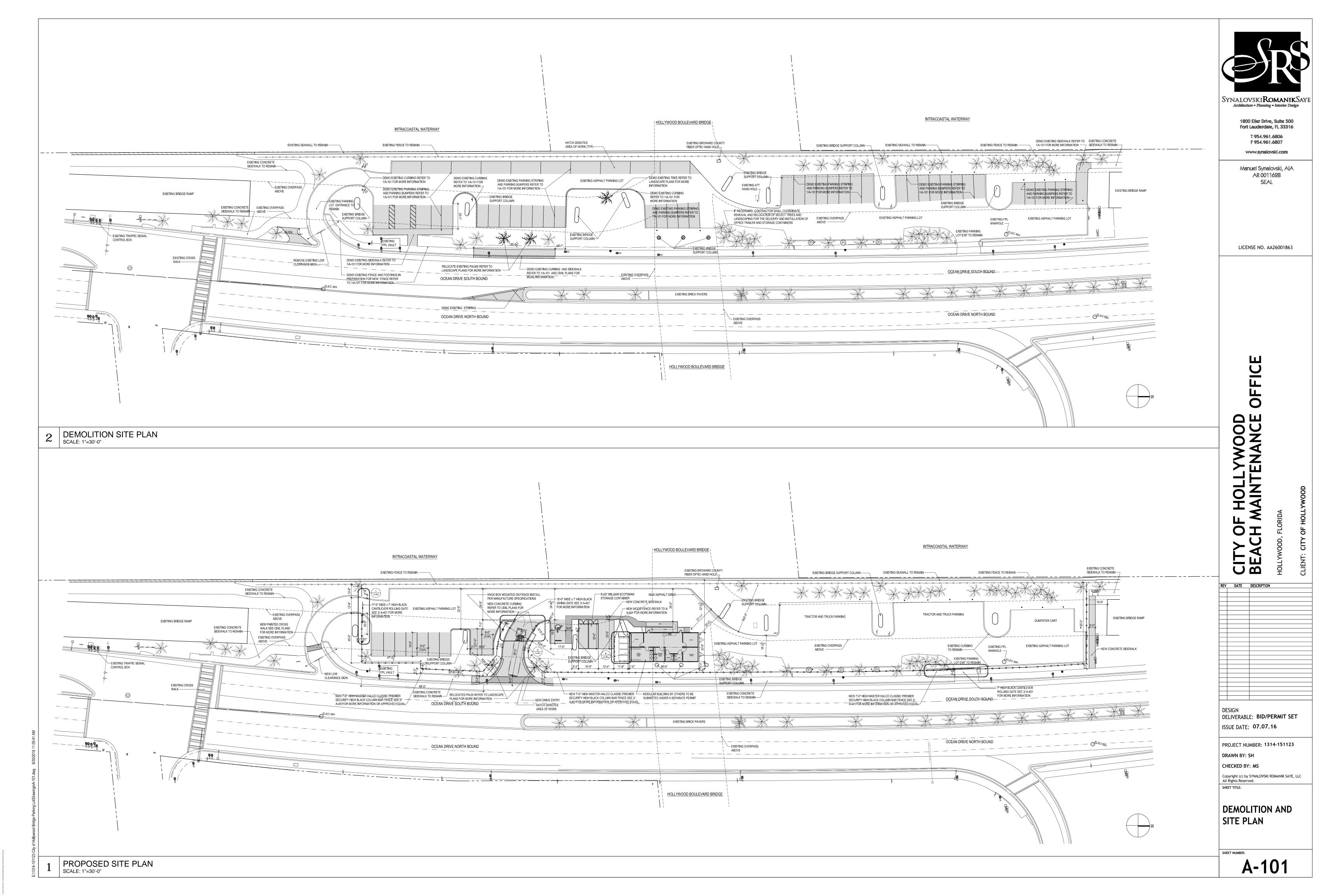
E-mail: hvacleo@aol.com

SHEET TITLE:

SCALE: NONE

GENERAL ELECTRICAL NOTES





- ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY, COUNTY AND STATE.
- 2. CONSTRUCTION SAFETY ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER, SPECIFICALLY, THE RULES AND REGULATIONS OF THE DICCUPATIONAL SAFETY AND HEALTH ADMINISTRATION DISHA), AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL BE STRICTLY DISERVED.
- 3. THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH CHAPTER 90-96 OF THE LAWS OF FLORIDA CTHE TRENCH SAFETY ACTO AND USHAS TAMDARD SO C.F. R. SECTION 1926. SOS SUBPART OF THE STANDARD SHALL AND STANDARD CONTRACTOR OF THE TRENCH SAFETY ACTOMPLIANCE STATEMENT. THE CONTRACTOR SHALL ALSO SUBMIT A SEPARATE COST ITEM IDENTIFYING THE COST OF COMPLIANCE WITH THE APPLICABLE TRENCH SAFETY CODES.
- 4. NO CONSTRUCTION MAY COMMENCE UNTIL THE APPROPRIATE PERMITS HAVE BEEN OBTAINED FROM ALL LOCAL, STATE AND FEDERAL AGENCIES.

- 1. UPON RECEIPT OF NOTICE OF AWARD, THE CONTRACTOR SHALL ARRANGE A PRECONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, ALL AFFECTED UTILITY OWNERS, THE UNNERS, THE ENGINEER AND HIMSELF.
- 2. THE CONTRACTOR SHALL OBTAIN AN SUNSHUNE STATE ONE CALL OF FLORIDA CERTIFICATION NUMBER AT LEAST 48 HOURS PRIOR TO PRIOR TO BEGINNING ANY EXCAVATION.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING UTILITIES FOR WHICH HE FAILS TO REQUEST LOCATIONS FROM THE UTILITY OWNER. HE IS RESPONSIBLE AS WELL FOR DAMAGE TO ANY EXISTING UTILITIES WHICH ARE PROPERLY
- 5. IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.
- C. INSPECTIONS
- THE OWNER, ENGINEER, AND LOCAL PERMITTING AGENCIES MAY MAKE INSPECTIONS OF THE WORK AT ANY TIME. THE CONTRACTOR SHALL COOPERATE FULLY WITH ALL INSPECTIONS.

D. SHOP DRAWINGS

- 1. THE CONTRACTOR SHALL SUBHIT (S) FIVE SETS OF SHOP DRAWINGS FOR APPROVAL TO THE ENGINEER OF RECORD PRIOR TO FARRICATION DE DRAWINGS OF THE PROJECT.

 SUBHITTED BY THE CONTRACTOR TO THE COUNTY OR CITY FOR THEIR APPROVAL NO CONSTRUCTION SHALL COMMENCE UNTIL THE APPROVAL ON CONSTRUCTION SHALL COMMENCE UNTIL THE APPROVAL OF THE COUNTY OR CITY FOR THEIR APPROVAL OR CONSTRUCTION SHALL COMMENCE UNTIL THE APPROVAL OF THE COUNTY OR CITY APPORT OF THE ENGINEER, CITY, AND/OR COUNTY.
- 2. INDIVIDUAL SHOP DRAWINGS FOR ALL PRECAST STRUCTURES ARE REQUIRED. CATALOG LITERATURE WILL NOT BE ACCEPTED FOR PRECAST STRUCTURES.
- E. TEMPORARY FACILITIES
- 1. TEMPORARY UTILITIES IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE. SANITARY FACILITIES AND ELECTRICITY TO HIS EMPLOYEES AND SUBCONTRACTORS FOR THEIR USE DURING CONSTRUCTION.
- TRAFFIC REGULATION MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHT-UF-WAY SHALL BE IN ACCORDANCE WITH THE MUTCD AND THE FIDIT STRANDARD SPECIFICATIONS.
- ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC. NO HOLES SHALL BE LEFT OPEN OVERNIGHT.

F. PROJECT SITE

- BRUMU LLEAN.

 2. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED BY THE ENGINEER ANY PUBLIC OR PRIVATE PROPERTY SUCCESSION OF THE STATE OF THE SHALL THE SHALL THE SHALL THE STATE OF THE
- 3. WHERE MATERIAL OR DEBRIS HAS WASHED OR FLOVED INTO OR BEEN PLACED IN WATER COURSES, DITCHES, DRAINS, CATCH BASINS, OR LANGE OF THE COURSE OF THE WORK, AND THE AREA KEPT IN A CLEAN AND NATE COURSTILLING.

G. PRILIECT RECORD DISCUMENTS

- THE CONTRACTOR SHALL MAINTAIN ACCURATE AND COMPLETE RECORDS OF WORK ITEMS COMPLETED. INFORMATION RELATIVE TO MANHOLES, VALVES, SERVICES, FITTINGS, LENGTH OF PIPE, INVESTE ELEVATIONS, FINISHED GRADE ELEVATIONS AND THE LIKE, SHALL BE ACCURATELY RECORDED BY THE CONTRACTOR. TOP ELEVATIONS 0 00° OF
- 2. PELIR: TO THE FLACTMENT OF ANY ASSMALT OF CONCECTE PARCHESTY,
 THE CONTRACTOR SHALL SUBMIT OF THE ENGINEER OF RECIRCO
 AS-BUILT PLANS SHOWING LIMEROCK BASE GRADES, ALL
 BRAINAGE, WATER, AND SEVER IMPROVEMENTS. PAVING
 PERATIONS SMALL HOT COMMENCE UNTIL THE ENGINEER HAS
 PERATIONS SMALL HOT COMMENCE UNTIL THE ENGINEER HAS
 PAYINGT OCCOMMENCE.
- 3. ALL REQUIRED DENSITY AND LBR TEST RESULTS FOR SUBGRADE SHALL BE PROVIDED TO THE ENGINEER PRIOR TO PLACING LIMEROCK
- ALL REQUIRED DENSITY AND LBR TEST RESULTS FOR LIMEROCK SHALL BE PROVIDED TO THE ENGINEER PRIOR TO PLACING ASPHALT.
- 5. ALL 'AS-BUILT' INFORMATION SUBMITTED TO THE ENGINEER SHALL BE SUFFICIENTLY ACCURATE, CLEAR AND LEGIBLE TO SATISFY THE ENGINEER AND ANY APPLICABLE REVIEWING AGENCY THAT THE INFORMATION PROVIDES A TRUE REPRESENTATION OF THE IMPROVEMENTS
- 6. UPD. COMPLETION OF CONSTRUCTION, THE CONTRACTOR SMALL SUBMIT TO THE ENGINEET OF RECORD FIVE COMPLETE SETS OF "ASBUILT CONSTRUCTION DRAWINGS CREINTS) AND DIRE MYLAR DESCINAL.
 THESE BRANINGS SHALL BE MARKED TO SHOW "AS-BUILT," CONSTRUCTION
 CHANGES AND DIMENSIONED LOCATIONS AND ELEVATIONS OF ALL
 IMPROVEMENTS AND SHALL BE SIGNED BY THE CONTRACTION
- ALL "AS-BUILT" INFORMATION ON ELEVATIONS OF PAVING, DRAINAGE, WATER, AND SEVER SHALL BE CERTIFIED BY A REGISTERED LAND SUPPLY OF THE PARTY OF THE PA

- 1. NONE OF THE EXISTING MATERIAL IS TO BE INCORPORATED IN THE LIMERDCK BASE.
- 2. ALL SUBGRADE UNDER PAVED AREAS SHALL HAVE A MINIMUM LBR VALUE DF 40 AND SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERNINED BY ASSHITD T-180.
- 3. ALL FILL MATERIAL IN AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY ASSITT T-99
- ALL DRGANIC AND OTHER UNSUITABLE MATERIAL WITHIN WORK LIMITS AND SWALE AREAS SHALL BE REMOVED.

TESTING - REQUIRED, ASPHALT AND LIMEROCK TESTS SHALL BE TAKEN AT THE DIRECTION OF THE ENGINEER OR THE LOCAL GIVERNMENT AGENCY.

J. GENERAL UTILITY NOTES

- SHOWN.

 SHOWN.

 PRIDE TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES IF APPLICABLE.
 FLORIDA POWER AND LIGHT COMPANYSUPITHERN BELLLOCAL. GAS COMPANY—
 LOCAL CASE COMPANY—
 LOCAL CABLE TELEVISION COMPANYS—
 LOCAL CABLE TELEVISION COMPANYS—
 LOCAL CITY ENGINEERING BEPARTMENT—
 FLORIDA DEPARTMENT OF TRANSPORTATION—
 STATE OF THE COMPANYS—
 FOR STREET FEXAMATION OF CLOSING—
 TRAFFIC SAMEGRAT—
 FIRE DISPARCH—
 FIRE DISPARCH—
 FIRE DISPARCH—
 FIRE DISPARCH—
 FIRE DISPARCH—
 FIRE DISPARCH—
 FIRE DISPARCH—
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RESTORATION DE EXISTING PAVENENT, PIPES, CONDUITS, CABLES, ETC., AND LANDSCAPED AREAS DAMAGED AS A RESULT OF THE CONTRACTOR'S DEPENATIONS AND/OR THOSE OF HIS SUBCONTRACTORS, AND SHALL RESTORE THE PROPERTY. HIS REPAIR SHALL BE DOE AT NO EXPENSE TO THE DWART OF THE DAMAGED UTILITY OR PROPERTY.
- COORDINATE CONSTRUCTION SCHEDULING FOR CONNECTION TO THE EXISTING WATER AND SEVER LINES WITH THE CITY UTILITY DEPARTMENT
- ALL PAVEMENT RESTORATION TO BE MADE IN ACCORDANCE WITH THE CITY, COUNTY OR STATE OF FLORIDA D.O.T. STANDARD SPECIFICATIONS, WHERE APPLICABLE.
- PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL SUPPLY THE ENGINEER OF RECORD WITH THE CERTIFICATION THAT ALL CONSTRUCTION AND MATERIAS MEET OR EXCEEDS THE DESIGN AND HAS BEEN INSTALLED PER THE DRAWINGS AND/OR AS-BUILT DRAWINGS.
- . THE CONTRACTOR SHALL CODDINATE THE WORK WITH DIHER CONTRACTORS IN THE AREA AND ANY DIHER UNDERGROUND CHONDIT REQUIRED FOR FRAL, SUMHERN BELL, IRING GITION SYSTEM, ETC. TO THE RELIGIOR OF THE STATE O
- NO TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN OVERNIGHT WITHOUT WRITTEN PERMISSION OF THE CITY OR OWNER.
- 9. THE CONTRACTOR MUST NOTIFY FLYNN ENGINEERING SERVICES, P.A. PRIOR TO STARTING EACH PHASE OF ANY UNDERGROUND UTILITY WORK DE PAVING AND GRADING DEPEATIONS SO THAT THE PROPER INSPECTIONS MAY BE SCHEDULED.

K. SURVEY INFORMATION

- SURVEY DATA ALL ELEVATIONS ON THE PLANS OR REFERENCED IN THE SPECIFICATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 NAVED 88).
- 2. SURVEY INFORMATION BASED ON SURVEY BY GIBBS LAND SURVEYORS.

II. CONSTRUCTION SPECIFICATIONS

- A. GENERAL
- 1. IT S THE INTERIOR THESE SPECIFICATIONS TO BESCRIBE THE MINIMUM, ACCOMENDE ECONITION DESIRENTY FOR THE TELL AND THE MEMORY FOR THE TELL AND THE MEMORY FOR THE TELL AND THE MEMORY FOR THE TELL AND THE THE TELL AND THE TELL AN
- DE LINIED IU, CLEARING, GADDING, PAVING, REMOVAL DE EXISTING PAVENDAT, AND STORM BORAINGE.

 2. II IS THE INTENT THAT THE FLORIDA DEPARTMENT OF TRANSPORTATION 'STRANBARD SPECIFICATIONS FOR ROBA AND BRIDGE CONSTRUCTION DATED 1991 STRANBARD SPECIFICATIONS FOR ROBA AND BRIDGE CONSTRUCTION DATED 1991 STRANBARD SPECIFICATIONS FOR ROBA AND BRIDGE CONSTRUCTION DATED 1991 BE USED WHERE AND THE PARTMENT OF TRANSPORTATION AND FERSIONES, SUCH VORDING THE NEEDEN REFERS TO THE STATE OF FLORIDA AND ITS DEPARTMENT OF TRANSPORTATION AND PERSONNEL, SUCH VORDING IS INTENDED TO BE REPLACED WITH THE WORDING THICH WONLD AND THE WORD THE TRANSPORTATION AND PERSONNEL, SUCH VORDING IS INTENDED TO BE REPLACED WITH THE WORDING TANDHOLD WITH AND THE WORDING THE WORD T
- 2 THE CONTROLLER SHIP LEWISH ALL LABOR MATERIALS AND EQUIPMENT AND PERFORM ALL DPRATTONS SEQUEDED TO COMPLETE THE CONSTRUCTION OF A PAYNON, DRAINAGE, WATER AND SERVE SYSTEM AS SHOWN ON THE PLANS, SPECIFICD HEREIN, OR BOTH, IT IS THE INTENT TO PROVIDE A COMPLETE AND DEPARTMENT FACILITY IN ACCORDANCE WITH THESE SPECIFICATIONS AND THE CONSTRUCTION DRAWINGS. THE MATERIAL AND EQUIPMENT SHEDIN OF SPECIFICATION DRAWINGS. THE MATERIAL AND EQUIPMENT SHEDIN OF SPECIFICATION FAMILY OF THE PAYNON OF THE MATERIAL AND COUNTRY OF SPECIFICATION OF THE MATERIAL AND COUNTRY OF THE MATERIAL AND COUNTRY
- CUMPLETE THE WORK.

 ALL LABBRY MATERIALS, AND METHODS OF CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE PLANS AND CONSTRUCTION SPECIFICATIONS AND THE MINIMUM ENGINEERING AND CONSTRUCTION SHALL SHALL
- ISSUED BY THE ENGINEER

 GURANNEE ALL MATERIALS AND EQUIPMENT TO BE FUNNISHED

 AND/OR INSTALLED BY THE CONTRACTOR UNDER THIS CONTRACT;

 SHALL BE GURANNEED FOR A PERIOD OF 10 DM YEAR FROM THE

 BATE OF FINAL ACCEPTANCE THEREOF AGAINST DEFECTIVE

 MATERIALS, DESIGN AND MORMANSHIP, DON RECEFF OF MUTICE

 BATE OF FINAL ACCEPTANCE THEREOF AGAINST DEFECTIVE

 FOR MATERIALS, DURING THE GURANNEE PERIOD. THE

 COUIPMENT OR MATERIALS, DURING THE GURANNEE PERIOD. THE

 REFECTED PART OR MATERIALS, SHALL BE REPLACED PRODUTY WITH

 NEW PARTS OR MATERIALS, BY THE CONTRACTOR, AT AND EXPENSE TO

 MECESSARY REPLACEMENT OR REPAIRS WITHIN (7) SEVEND ANY

 AFTER MOTIFICATION BY THE OWNER, THE OWNER MAY ACCOMPLISH

 THE WORK AT THE EXPENSE OF THE CONTRACTOR.

- I. ALL AREAS WITHIN THE LIMITS OF WORK SHALL BE CLEARED AND GRUBECD PRIOR TO CONSTRUCTION. THIS SHALL CONSIST OF THE COMPLETE REMOVAL AND DISPOSAL OF ALL TREES, BRUSH, STUMPS, ROOTS, GRASS, WEEDS, RUBBISH AND ALL OTHER OBSTRUCTIONS RESTING ON OP PROTRUDING THROUGH THE SURFACE OF THE EXISTING GROUND TO A DEPTH OF I. THENS DESIGNATED TO REPAIN DE TO BE REACHED BY TO BE JUDISTED SHALL BE SOURCE OF THE STRANGED SHALL BE IN ACCORDANCE WITH SECTION 110 OF THE STANDARD SPECIFICATION.
- FILL MATERIAL SHALL BE CLASSIFIED AS A-1, A-3, DR A-2-4 IN ACCORDANCE WITH AASHTO M--145 AND SHALL BE FREE FROM VEGETATION AND ORGANIC MATERIAL. NOT MORE THAN 10% BY WEIGHT OF FILL MATERIAL SHALL PASS THE NO. 200 SIEVE.
- VEIGHT OF FILL MATERIAL SMALL PASS THE NO. 200 SIEV ID. 89

 3. ALL MATERIAL OF CONSTRUCTION SHALL BE SUBJECT TO INSPECTION AND TESTING TO ESTABLISH COMPORNMANCE WITH THE SPECIFICATIONS AND SUITABLY FOR THE USES INTENDED THE SPECIFICATIONS AND SUITABLY FOR THE USES INTENDED THE SPECIFIC SHALL BE READY FOR AN INSPECTION OF SHALL BE READY FOR AN INSPECTION SHALL BY THE COUNTY INSPECTION PROCEDURES. THE CONTRACTOR SHALL BY PROCEDURES INTENDED WITH ANY PHASE OF WORK DEPENDENT ON AN INSPECTION OF STEEL SHALL BY RESPONSIBLE FOR PROVIDING CERTIFIED MATERIAL BE RESPONSIBLE FOR PROVIDING CERTIFIED MATERIAL TEST RESULTS TO THE ENGINEER OF RECORD PRIOR TO THE RELEASE OF FINAL CERTIFICATION BY THE ENGINEER TEST RESULTS MUST INCLUDE, BUT MAY NOT BE LIMITED. TO, DENSITIES THE RELEASE OF FINAL CERTIFICATION BY THE ENGINEER TEST RESULTS MUST INCLUDE, BUT MAY NOT BE LIMITED. TO, DENSITIES THE SUBJECTION OF FINAL CERTIFICATION BY THE ENGINEER TEST RESULTS MUST INCLUDE, BUT MAY NOT BE LIMITED. TO, DENSITIES THE SUBJECTION OF FINAL CERTIFICATION BY
- . HEN ENCOUNTERED, MUCK SHALL BE COMPLETELY REMOVED FROM THE CENTER LINE (10) TEN FEET BEYOND THE EDGE OF PAVEMENT EACH SIDE. ALL SUCH MATERIAL SHALL BE REPLACED BY APPROVED GRANULAR FILL, COMPACTED TO 98% OF MAXIMUM DENSITY (AASHTO T-180).
- 5. WHEN ENCOUNTERED WITHIN DRAINAGE SWALES, HARDPAN OR MUCK SHALL BE REMOVED FOR A WIDTH OF (5) FIVE FEET AT THE INVERT AND REPLACED WITH GRANULAR MATERIALS.
- 6. ALL UNDERGROUND UTILITIES AND DRAINAGE INSTALLATIONS SHALL BE IN PLACE PRIOR TO SUBGRADE COMPACTION AND PAVEMENT CONSTRUCTION.
- GROUND ADJACENT TO ROADWAY/PAVEMENT HAVING RUNDEF SHALL BE GRADED (2) TWO INCHES LOWER THAN THE EDGE OF PAVEMENT TO ALLOW FOR THE PLACEMENT OF SOD.
- 9. THE CONTRACTOR SHALL PERFORM ALL EXCAVATION, FILL.
 BEBANNEAST AND GRADING TO ACHIEVE THE PROPOSED PLAN GRADES
 INCLUDING TYPICAL ROAD SECTIONS, SIDE SLOPES AND CANAL
 SECTIONS. ALL UDORS SHALE BE IN ACCORDANCE VITH SECTION 120
 DF THE STANDARD SPECIFICATIONS. IF FILL MATERIAL IS
 REQUIRED IN EXCESS OF THAT GENERATED BY THE EXCAVATION, THE
 CONTRACTOR SHALL SUPPLY THIS MATERIAL AS REQUIRED FROM
 SITE.

DRAINAGE

- PRIMARY TRIBUTION TO TIME HULDFIRMLE.

 PREVIOUS BY ONE OF THE FOLLOWING BESIGNATIONS.

 PROP = RENTORCED CONSCRETE PIPE, ASTH DESIGNATION C--76,
 TABLE III, F.D. D. T., SECTION 941.

 CMP = CORREGATED METAL, CALUMINUM PIPE,

 ASTH DESIGNATION HOUSE,

 CMP (SOUTH LINED) ASTH DESIGNATION M-196.

 SCP (SOUTH LINED) ASTH DESIGNATION M-196.

 SCP = SLUTTED CONCRETE PIPE, F. D. D. T. SECTIONS 941 AND

 942.
- 942. PVC = POLYVINYL CHLORIDE PIPE. PCMP = PERFORATED CMP, F. D. D. T. SECTION 945
- 3. PIPE BACKFILL REQUIREMENTS FOR PIPE BACKFILL CROSSING ROADS OR PARKING AREAS SHALL BE AS DEFIRED IN THE FLORIDA D. D. T. SPECIFICATIONS, 1991, SECTION 125-8. PIPELINE BACKFILL SHALL BE PLACED IN 6 INCH LIFTS AND COMPACTED TO 100% OF THE STANDARD PROCORD (ASANDTO-10-95) SPECIFICATIONS.
- 4. LOCATION OF DRAINAGE STRUCTURES SHALL GOVERN, AND PIPE LENGTH MAY HAVE TO BE ADJUSTED TO ACCOMPLISH CONSTRUCTION AS SHOWN ON THESE PLANS.
- 5. PLASTIC FILTER FABRIC SHALL BE MIRAFI, TYPAR OR EQUAL CONFORMING TO SECTION 985 OF THE F.D.D.T. STANDARD SPECIFICATIONS.
- D. PAVING
- WHERE NEW ASPHALT MEETS EXISTING ASPHALT, THE EXISTING ASPHALT SHALL BE SANCUT TO PROVIDE A STRAIGHT EVEN LINE. PRIOR TO REMOVING CURB OR GUITER, THE ADJACENT ASPHALT SHALL BE SANCUT TO PROVIDE A STRAIGHT EVEN LINE. INTERNAL ASPHALT PAVING CONSTRUCTED DUR ENSITING SANDY SOILS
 SHALL BE CONSTRUCTED WITH A 12 SUBGRADE, COMPACTE WITH
 SHALL BE CONSTRUCTED WITH A 12 SUBGRADE, COMPACTE WITH
 ANALYTE SHALL BE CONSTRUCTED IN
 THE LIMITS SHAUN ON THE PLANS. ALL SUBGRADE SHALL HAVE AN
 LIB OF 40 UNESS DIFFARISE WHITE.
- 3. ASPHALTIC CONCRETE SUPFACE COURSE SHALL BE CONSTRUCTED TO THE LIMITS SHOWN DO THE PLANS. THE SUPFACE COURSE SHALL SHOWN THE SHAME SHOWN DO THE PLANS. THE SUPFACE COURSES SHALL SHOWN THE PLANS. SHOWN THE SHAPE AND SHA
- AND 339 OF THE STANDARD SPECIFICATIONS.

 4. ILMEDICK BASE SHALL BE PREPARED, COMPARITED AND GRADED AND BROWN OF THE FLORIDA BROWN OF THE STANDARD SPECIFICATION ACCORDANCE WITH SECTION 300 DP THE STANDARD SPECIFICATION AND MAN ACCURATE BROWN OF THE STANDARD SPECIFICATION AND THE ACCURATE BLOWN OF THE STANDARD SPECIFICATION AND THE ACCURATE BLOWN OF THE STANDARD SPECIFICATION AND THE ACCURATE BROWN OF THE STANDARD SPECIFICATION AND THE SPECIF
- LIMERDOK BASE MATERIAL SHALL BE PLACED IN MAXIMUM 6' LIFTS. BASES GREATER THAN 6' SHALL BE PLACED IN TWO EQUAL LIFTS.
- 6. ASPHALT EDGES THAT ARE NOT CURBED SHALL BE SAWCUT TO PROVIDE A STRAIGHT EVEN LINE TO THE DIMENSIONS SHOWN ON THE HORIZONTAL CONTROL PLAN.

E. CONSTRUCTION

- 1. CINCRETE SIDEWALK SHALL BE 4' THICK ON COMPACTED SUBGRADE, WITH 1/2' EXPANSION JOINTS PLACED AT A MAXIMUM DE 75'. CRACK CONTROL JOINTS SHALL BE 5' ON CENTER. THE BACK DE PAYEMENT, UNLESS OTHERWISE SPECIFIED BY LOCAL CODES. OR SHOWN ON THE DRAWINGS. ALL CONDETE SIDEWALES THAT CROSS DRIVEWAYS SHALL BE 6' THICK AND HAVE A MINIMUM OF 3000 P. S.1. CONTRETE.
- CONCRETE CURB SHALL BE CONSTRUCTED TO THE LIMITS SHOWN ETHE PLANS. THE CONCRETE SHALL HAVE A MINIMUM COMPRESSIV STRENGTH OF 3000 P. S. I. AT 28 DAYS AND SHALL BE ACCORDANCE WITH SECTION 345 DE THE STANDARD SPECIFICATIONS.

F. SIGNAGE AND PAVEMENT MARKINGS

- 1. THE RDADS AND PARKING AREAS SHALL BE STRIPED IN ACCORDANCE
 WITH THE PLANS NO STRIPE SHALL BE LESS THAN THE SPECIFIED
 WIDTH MOR SHALL IT EXCEED THE SPECIFIED WIDTH SY MIRRE THAN
 LOW STRIPE STRIPE SHALL BE INCCEPTED WITH SECTION
 WITHIN THE PUBLIC RICHIT—FLAY AND AT BETVEWAY ACCESS
 POINTS SHALL BE THERMOPLASTIC IN ACCORDANCE WITH THE
 STANDARD SPECIFICATIONS.
- STANDARD SPECIFICATIONS.

 2 IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL AND MAINTAIN ADDITION THE FRAFFIC CONTROL DEVICES, WARNING DEVICES AND BARRIERS FOR THE PURPOSE OF PRITECTING CONTROL OF THE PURPOSE OF PRITECTING CONTROL SHALL BE MAINTAINED FOR THE DURATION OF THE PURPOSE OF THE STANDARD FOR THE VERY SUSPENSIONS OF THE VERY, MAINTAINED FOR THE FIRST SUSPENSIONS OF THE VERY, MAINTAINED FOR THE FIRST SUSPENSIONS OF THE VERY, MAINTAINED FOR THE FIRST SHALL BE IN ADDITIONAL OF TRAFFIC CONTROL AND THE STATE OF FLORED HAND THE FORT OF CONTROL AND SAFE PRACTICES FOR STREET AND HIGHMAY CONSTRUCTION, MAINTENANCE AND THE TYPE FOR THE STREET FOR THE STREET THE ONE OF THE PURPOSE OF THE STREET FOR THE STREET THE ONE OF THE STREET THE STREET FOR THE STREET THE ONE OF THE STREET THE STREET THE STREET THE STREET THE ONE OF THE STREET THE STREET
- ALL PAVEMENT MARKINGS ON-SITE SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
- ALL SIGNING AND MARKINGS SHALL CONFORM TO MUTCD AND BROWARD COUNTY TRAFFIC ENGINEERING STANDARDS (LATEST EDITION).

G. SEWER SYSTEM NOTES

- 1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LOCAL UTILITY DEPARTMENT MINIMUM STANDARDS AND APPLICABLE COLDES.
- PRITICIPALE COLLES.

 2. THE CONTRACTOR SHALL FIELD VERIFY THE VERTICAL AND HORIZONTAL LOCATION OF EXISTING SEVER LINES, MANHOLES, AND STUBURDS PRIOR TO COMPMENCING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF THE FIELD INFORMATION DIFFERS FROM THAT SHOWN ON THE PLANS.
- MINIMUM SLOPE SHALL BE 0.4% FOR 8' PIPE AND 1% FOR 6' SERVICE LATERALS.
- DUCTILE IRON SEWER PIPE FOR GRAVITY MAINS SHALL BE CLASS 350 POLYLINED WITH A MINIMUM OF 30' OF COVER.
- 6. PVC LINES ENTERING OR LEAVING MANHOLES SHALL HAVE A NEOPREME BOOT WITH STAINLESS STEEL ACCESSORIES.
- 7. CONNECTIONS TO EXISTING MAINS SHALL BE MADE UNDER THE DIRECTION OF THE CITY UTILITY DEPARTMENT. 8. CLEANDUTS SHALL BE INSTALLED AT ALL SEVEN SERVICES EXCEDING 79 LENGTH (CYEKY 79 WITH A GLEANDUT AT THE CONTRACTOR SHALL CORDINATE THE LOCATION OF THE BUILDING CLEANDUT (5' FROM THE BUILDING AND ELEVATION OF THE SHALL CORDINATE THE LOCATION OF THE SHALL SHALL CORDINATE THE LOCATION OF THE BUILDING CLEANDUT (5' FROM THE BUILDING AND ELEVATION OF THE SHALL S
- 9. LMITS OF INTLITATION OF EXTLIFATION OF LEXAGE FIR THE ENTIFIE SYSTEM INCLUDING SERVICE LINES SHALL NOT KNEED A RATE OF D. I CALLONS FER FOOT FER 24 HOURS FOR ALL SIZES OF PIPE THROUGHOUT THE SYSTEM THE ALLONABLE LIMITS OF INFLITATION OR EXPLITATION OF MANHOLE PER 24 HOURS.
- 10. ALL SEWER MAINS AND SERVICES, UP TO AND INCLUDING THE END OF THE SERVICE, SHALL BE CONSTRUCTED WITHIN A MINIMUM OF A 15' UTILITY EASEMENT, UNLESS OTHERWISE SHOWN.
- THE ENTIRE SYSTEM SHALL BE CLEANED PRIOR TO LAMPING OF THE LINES IET SANITARY SEWER MUST BE TELEVISED & CONTRACTORS EXPENSE. ALL DEFICIENTIES DESERVED ON THE VIDEO TAPES SHAL BE CURRECTED PRIOR TO CITY CERTIFICATION TO ANY AGENCY.
- 12. PROVIDE DRANGE RPM @ CENTERLINE OF ROAD OF NEAREST DRIVING LANE FOR MANHOLES LOCATED IN GREEN AREAS.

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LOCAL UTILITY DEPARTMENT MINIMUM STANDARDS AND APPLICABLE CODES.
- ALL CONNECTIONS TO EXISTING MAINS SHALL BE MADE UNDER THE DIRECTION OF THE UTILITY DEPARTMENT.
- GATE VALVES, 4' DR LARGER, SHALL MEET AWWA C-509-01 STANDARD. BUTTERFLY VALVES, 16' DR LARGER, SHALL MEET AWWA C-504-00, CLASS ISOB STANDARDS & POEVUD STANDARDS.
- 4. FIRE HYDRANTS SHALL BE TRAFFIC BREAK AWAY TYPE CONFORMING TO AWWA C-502-94 STANDARDS. ALL TRENCHING, PIPE LAYING, BACKFILLING. PRESSURE TESTING, AND DISINFECTING MUST COMPLY WITH AWWA C-600-99 AND C-651-99 STANDARDS & PBCVUD STANDARDS.
- 6. THE CONTRACTOR SHALL COORDINATE THE LOCATION AND ELEVATION OF THE ENDS OF THE WATER SERVICES WITH THE BUILDING PLUMBING CONTRACTOR.
- 7. CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING WATER
 MAINS AND PROPOSED CONNECTION POINTS. THE CONTRACTOR SHALL
 NOTIFY THE ENGINEER IF THE FIELD INFORMATION DIFFERS FROM
 THAT SHOUND ON THE PLANS. 8. THE CONTRACTOR MUST ARRANGE AND PAY FOR ANY TEMPORARY WATER REQUIRED FOR CONSTRUCTION, CLEANING, TESTING, ETC...

- $L = \frac{SD \sqrt{P}}{148,000}$
- THE PRESSURE TEST SHALL BE WITNESSED BY A REPRESENTATIVE OF THE CITY AND THE ENGINEER OF RECORD.
- B. DISINFECTION OF ALL WATER INCOME.

 C-651-99, BACTERIOLOGICAL SAMPLING POINTS ARE SHOWN ON THE WATER AND SEVER PLAN A CHURINE RESIDUAL OF .3 TO .1.5 PPM SHALL BE MAINTAINED. ALL STERLIZATION SHALL BE AT THE FULL EXPENSE OF THE COUNTY ENDEL OF THE COUNTY PUBLIC HEALTH UNIT AND THE CITY PRIOR TO DEPERATION OF THE SYSTEM.
- 16. ALL PVC PIPE SHALL BE INSTALLED WITH METALLIC LOCATOR TAPE 18' ABOVE THE TOP OF PIPE.
- 17. BACK FLOW PREVENTORS MUST BE APPROVED BY THE CITY AS TO TYPE AND LOCATION PRIOR TO INSTALLATION.
- 17. BACK FLOW PREVENTIORS MUST BE APPROVED BY THE CITY AS TO TYPE AND LOCATION PRICE TO INSTALLATION.

 18. "ALL WATER MAIN PIPE. INCLUDING FITTINGS, INSTALLED ON DE AFTER AUGUST 28, 2003, CKEPET PIPE INSTALLED HOUSE A CONSTRUCTION PERMIT FOR WHICH HEALTH DEPARTMENT RECEIVED A COMETIC FAPILOTION BEFORE AUGUST 82, 2003, SHALL BE COLOR CODED OR MARKED USING BLUE AS A PREDDHIMMIT COLOR TO MALLE COLOR CODED OR MARKED USING BLUE AS A PREDDHIMMIT COLOR TO WHITE AND LOCATION PROVIDED BLUE EXTERNAL SKIN, DR SHALL BE CHITTE OR BLACK PIPE VITH BLUE STRIPES MALLE BE SOLIDWALL BLUE PIPE, SHALL BLUE PIPE, SHALL BE SOLIDWALL BLUE PIPE, SHALL BLUE PIPE, SHALL BE SALL HAVE CONTINUOUS STRIPES THAT RAY PARALLEL TO THE ASSOLID THE PIPE, THAT ARE DISTRIPLY BROWN OF THE PIPE, THAT ARE DISTRIPLY BROWN OF THE PIPE, THAT ARE DISTRIPLY BUSING MAD ATTACHED BY THE PIPE, THAT ARE DISTRIPLY BUSING MAD ATTACHED BY THE PIPE, THAT ARE DISTRIPLY BUSING MAD ATTACHED BY THE PIPE, THAT ARE DISTRIPLY BUSING MAD ATTACHED BY THE PIPE, THAT ARE DISTRIPLY BUSING MAD ATTACHED BY THE PIPE, THAT ARE DISTRIPLY BUSING MAD ATTACHED BY THE PIPE, THAT ARE DISTRIPLY BUSING MAD ATTACHED BY THE PIPE, THAT ARE DISTRIPLY BUSING MAD ATTACHED BY THE PIPE, THAT BUSING MAD ATTACHED BY THE PIPE BUSING MAD ATTACHED BY THE PIPE, THAT BY THE PIPE BUSING MAD ATTACHED BY THE PIPE, THAT BY THE PIPE BUSING MAD ATTACHED BY THE PIPE, THAT BY THE PIPE BUSING MAD ATTACHED BY THE PIPE, THAT BY THE PIPE, THAT BY THE PIPE BUSING MAD ATTACHED BY THE PIPE, THAT BY THE PIPE, THAT BY THE PIPE BUSING MAD ATTACHED BY THE PIPE, THAT BY THE PIP

- 1. 'CITY' IN THESE NOTES REFERS TO THE CITY OF HOLLYWOOD.
 2. 'COUNTY' IN THESE NOTES REFERS TO BROWARD COUNTY.
 3. 'STATE' IN THESE NOTES REFERS TO THE STATE OF FLORIDA.
- 111. INTENT OF DRAWINGS & SPECIFACTIONS

 NITENT OF SPECIFICATIONS AND DRAWINGS IS TO COVER AN INSTALLATION COMPLETE IN EXEMY ASSPCT. IT IS NOT INTENDED TO COVE CURTY CETAL ON DRAWINGS AND SPECIFICATIONS, OWNER WILL NOT BE RESPONSIBLE FOR ASSENCE OF ANY DETAIL WHICH CONTRACTOR MAY REQUIRE, NOR FOR ANY SPECIAL CONSTRUCTION WHICH MAY BE FOUND NECESSARY AS WORK PROGRESSES. IF AN ITEM IS EITHER INDICATED OR SPECIFIED, IT SHALL BE CONSIDEDED SUPPLICIENT FOR INCLUSION OF SAID ITEM IN CONTRACT. CONTRACTOR SHALL FURNISH AND INSTALL MATERIALS AND EQUIPMENT USUALLY PRINSHED WITH SUCH SYSTEMS, AND AS DEEDED TO COMPLETE AN OPERATING INSTALLATION, WHETHER MENTIONED OR NOT, WHICH ARE CUSTOMANY IN 18TALLATION, WHETHER MENTIONED OR NOT, WHICH ARE
- INCIDENTAL ACCESSORIES NOT USUALLY SHOWN OR SPECIFIED BUT WHICH ARE NECESSARY FOR THE PROPER INSTALLATION AND OPERATION SHALL INCLUDED IN WORK WITHOUT ADDITIONAL COST TO THE OWNER, THE SAME AS IF HERIN SPECIFIED.
- ANY APPARATUS, APPLIANCE, MATERIAL OR WORK NOT SHOWN ON BUT MENTIONED IN THE SPECIFICATONS, OR VICE-VERSA, OR ANY INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE WORK COMPLETE AND READY FOO OPERATION, SHALL BE FURNISHED, DELIVERED, AND INSTALLED BY THE CONTRACTOR, WITHOUT ADDITIONAL COST TO THE OWNER.
- 4. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INDICATED (DO NOT SCALE THE DRAWINGS). CONSULT THE ENGINEER FOR EXACT LOCATIONS OF ITEMS WHICH ARE NOT DEFINITELY LOCATED ON THE DRAWINGS. ENGINEER'S INTERPRETATION OF DRAWINGS AND SPECIFICATIONS SHALL BE FINAL AND BINDING UPON CONTRACTOR.
- 6. CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTING BID, AND THOROUGHLY INVESTIGATE AND VERIFY ALL CONDITIONS UNDER SHICH WORK SHALL BE PERFORMED. IF A DISCREPANCY OCCURS BETWEEN A DETAIL, PLAN OR SPECIFICAITONS, THE MOST RESTRICTIVE DETAIL TAKES PRECEDENCE & SHALL BE IMPLEMENTED IN THE CONSTRUCTED PROJECT.



LAUDERDALE BY THE SEA, FL 3330 PHONE: (954) 522-1004 FAX: (954) 522-7630 EB# 6578

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CITY OF HOLLYWOOD CH MAINTENANCE OFFI BEA

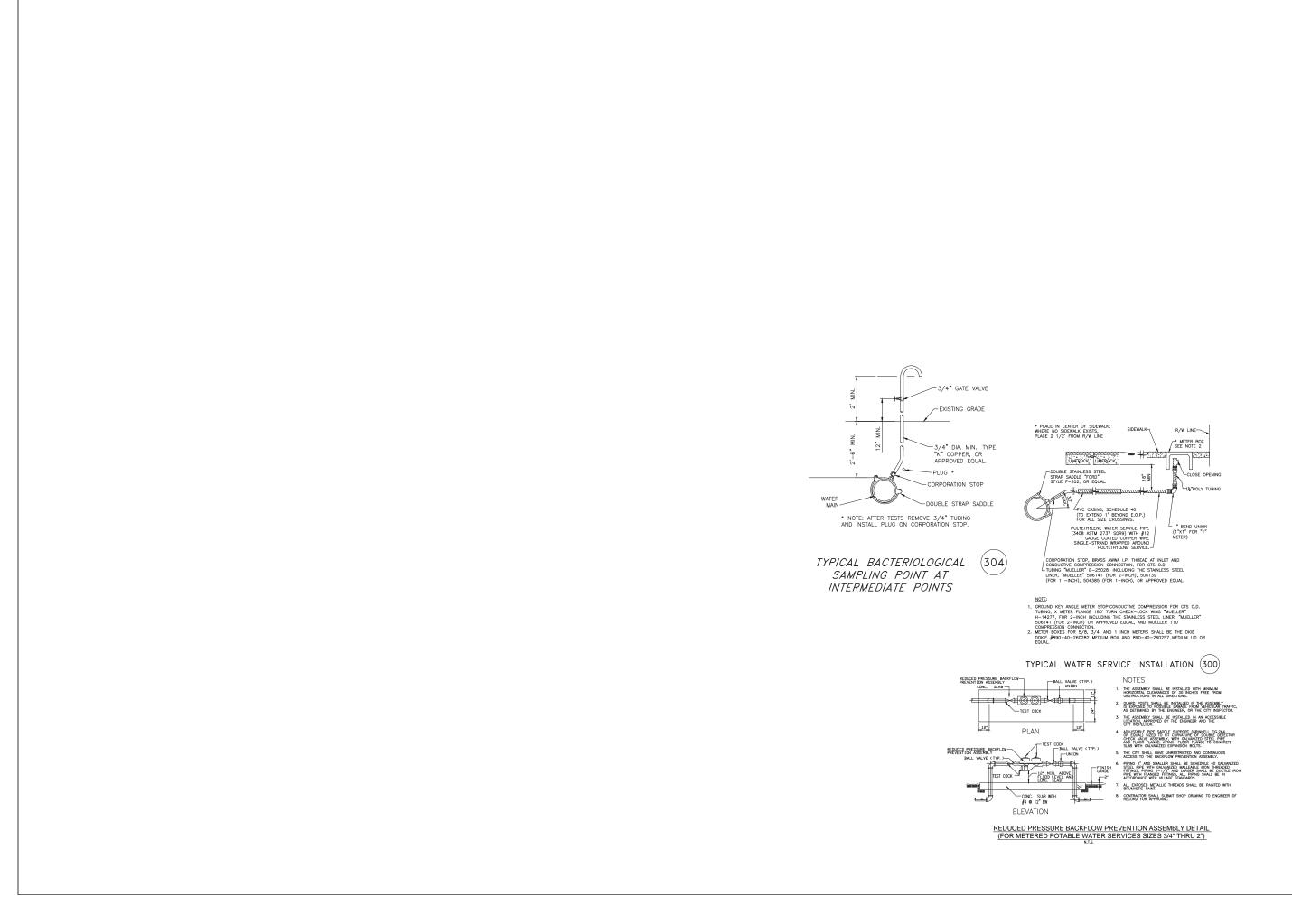
Revisions

Phase:

PERMIT

DOCUMENTS SEAL

Scale: Joh No Plot Date 16-1297.00 07/01/16 Drawn by DRS Sheet No. C4 Proj. Mgr. DRS





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AND SEWER DETAILS

NCE OFFICE WATER,

BEACH MAINTENANCE OFFICE

Phase:
PERMIT
DOCUMENTS

SUMMARY OF DRAINAGE STRUCTURES

STRUCTURE #	TYPE	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"	U.S.F. # OR EQUAL FRAME	U.S.F. # OR EQUAL GRATE
CB#	"J"	4'-0" ø	8"	8"	#4 @ 12" CCEW	#4 @ 12' CCEW	6'-4" ø	5'-4" ø	#4 @ 6" CCEW	4155	6209 CAST IRON
CB#	"D"	37"	49"								6626 STEEL
J8#	"J"	4'-0" ø	8"	8"	#4 @ 12" CCEW	#4 @ 12' CCEW	6'-4" ø	5'-4" ø	#4 @ 8" CCEW	420	TYPE "C"
CI#	"J"	4'-0" ø	8"	8"	#4 @ 12" CCEW	#4 @ 12' CCEW	6'-4" ø	5'-4" ø	#4 @ 6" CCEW	5145	6209 CAST IRON
CB#	"J"	6'-0" ø	8"	8"	#5 @ 6" CCEW	#5 @ 6' CCEW	8'-4" ø	7'-4" ø	#5 @ 6" CCEW	4155	6209 CAST IRON
JB#	"c"	42"	72"	8"	#5 @ 6" CCEW	#5 @ 6' CCEW	66"X96"	58"X88"	#6 @ 6" CCEW	440	TYPE "C"
мн#	"J"	5'-0" ø	8"	8"	#5 @ 12" CCEW	#5 @ 12' CCEW	7'-4" ø	6'-4" ø	#5 @ 8" CCEW	420	TYPE "C"
MH#	"J"	6'-0" ø	8"	8"	#5 @ 6" CCEW	#5 @ 6' CCEW	8'-4" ø	7'-4" ø	#5 @ 6" CCEW	420	TYPE "C"
MH#	"J"	7'-0" ø	8"	8"	#5 @ 6" CCEW	#5 @ 6" CCEW	9'-4" ø	8'-4" ø	#5 @ 6" CCEW	420	TYPE "C"
CB# 1-2	"c"	24"	37"							4155	6209 CAST IRON
YD#											

SECTION

JUNCTION BOX/CATCH BASIN

PROPOSED GRADE, SLOPE TO DRAIN TOWARDS CATCH BASINS.

PLAN

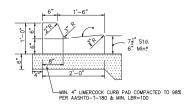
SECTION B-B

CATCH BASIN TOP SLAB

USE 1/2 CAMP. (NEXT SIZE LARGER SIZE THAN DRAINFIELD) 4-1/2* STAINLESS STEEL ANCHOR BOLTS & NUT ____

NOTE: ALL CATCH BASINS LEADING TO EXFILTRATION TRENCH OR OUTFALL SHALL HAVE POLLUTION RETARDANT BAFFLE (PRB).

POLLUTION RETARDANT BAFFLE

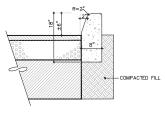


When used on high side of roadways, the cross slope of the gutter shall match the cross slope of the adjacent pavement the thickness of the lip shall be 6", unless otherwise shown

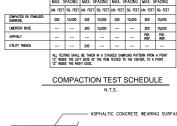
TYPE F

CONCRETE CURB AND GUTTER

N.T.S.





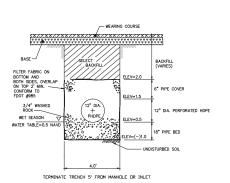


F.B.V. DENSITY L.B.R. THICKNESS

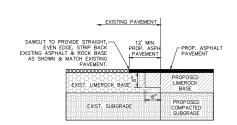
: PRIME & TACK COAT FOR THE LIMEROCK BASE COURSE SHALL CONFORM TO THE REQUIREMENTS OF F.D.O.T. STANDARD SPECIFICATIONS SECTION 300.
APPLICATION RATES — PRIME COAT—0.25 GALLONS PER SQ. YD. TACK COAT—0.06 GALLONS PER SQ. YD. : 6" LIMEROCK BASE COMPACTED TO 98% OF MAXIMUM DENSITY (AASHTO T-180),LIMEROCK BASE TO CONFORM WITH THE REQUIREMENTS OF F.D.O.T. SPECIFICATION SECTIONS 200 & 911. MINIMUM LB.R. = 100

UBBASE: 12" SUBBASE COMPACTED TO 98% OF MAXIMUM DENSITY (AASHTO T-180). MINIMUM LB.R. = 40

ASPHALT PAVEMENT DETAIL





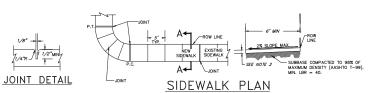


F.D.O.T. PAVEMENT CONNECTION DETAIL N.T.S.

APPROVED BEDDING MATERIAL UP TO

100

TYPICAL TRENCH AND PAVEMENT RESTORATION FOR TRANSVERSE CROSSING N.T.S.



CONCRETE PAVEMENT & SIDEWALK JOINTS

TABLE OF SIDEWALK JOINTS	1.	PROMDE 1/8" CONTRACTION JOINTS AT 5' C.C. MITH A MINIMUM DEPTH 1 1/2", EDGED WITH A 1/4" RADIUS DEEP WITHIN THE FOLLOWIG TIME PERIODS. JOINTS AT NOT MORE THAN 30' INTERVALS — WITHIN 12 HOURS AFTER PRINSHING, ERMANING JOINTS WITHIN 96 HOURS AFTER PRINSHING.
LOCATION P.C. AND P.T. CURVES. JUNCTION OF EXISTING AND	2.	PROVIDE 6" THICK CONCRETE FOR ALL SIDEWALKS LOCATED IN RIGHT OF WAY AND 4" THICK CONCRETE FOR ALL SIDEWALKS LOCATED ON-SITE.
NEW SIDEWALKS. 5'-0" CENTER TO CENTER	3.	NO REINFORCEMENTS SHALL BE USED IN THE SIDEWALKS.
ON SIDEWALKS. 15' CENTER TO CENTER MAX. FOR CONCRETE.	4.	CONCRETE TO BE 3,000 PSI IN 28 DAYS.
PAVEMENT UNLESS OTHERWISE INDICATED.	5.	CURE ALL CONCRETE WITH CLEAN SAND, PLASTIC MEMBRANE OR OTHER APPROVED METHOD.
	6.	CONCRETE PAVEMENT FOUNDATION SHALL BE COMPACTED TO A FIRM, EVEN SURFACE, TRUE TO GRADE AND CROSS SECTION, AND SHALL BE MOIST AT THE TIME CONCRETE IS PLACED
NOTE: CONCRETE TO BE CLASS-1 3000 P.S.I.	7.	ALL CONSTRUCTION SHALL CONFORM TO LOCAL CONSTRUCTION CODES AND STANDARDS

CONCRETE PAVEMENT & SIDEWALK DETAIL



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PAVING, GRADING, AND DRAINAGE DETAILS

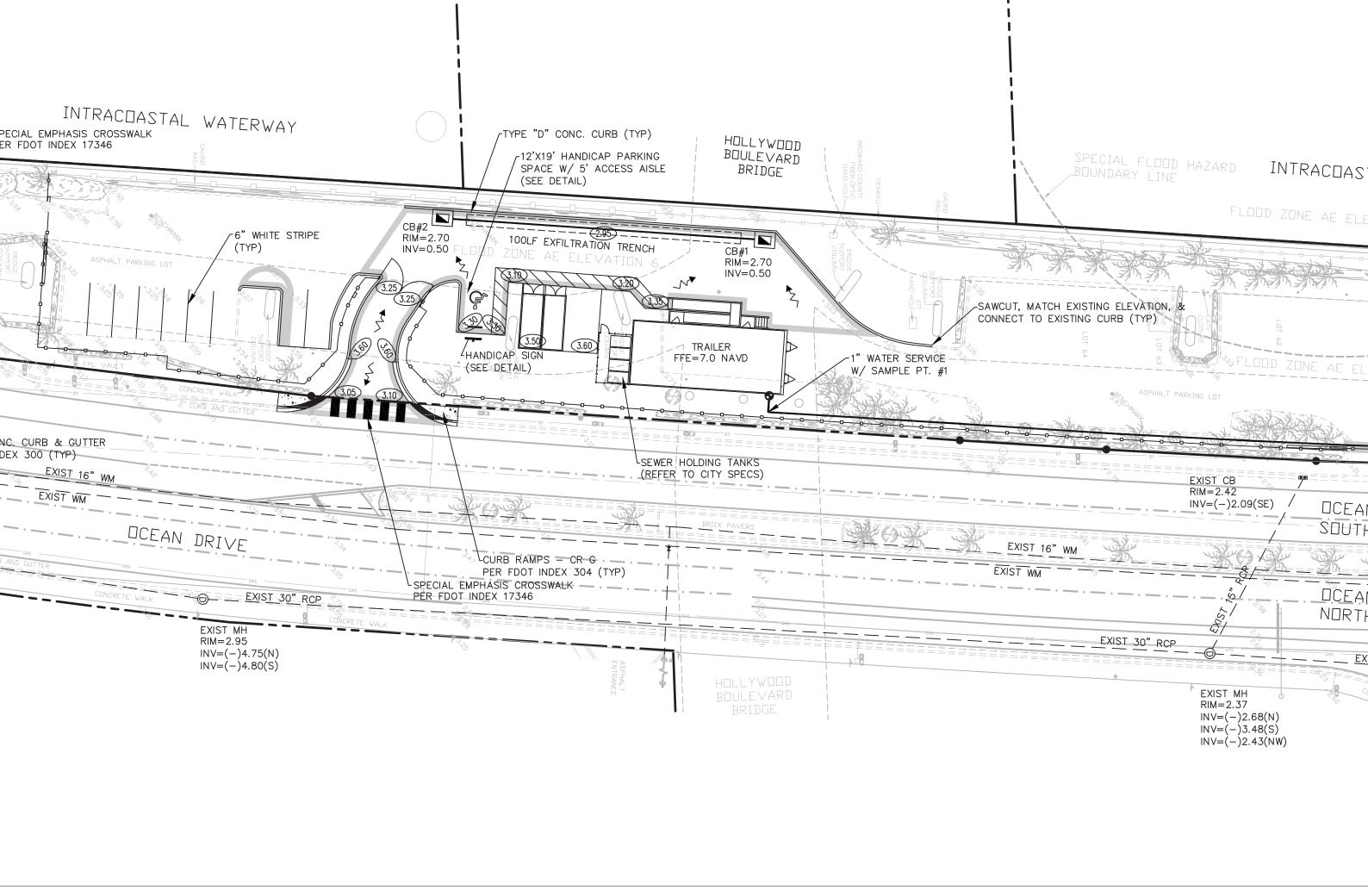
CITY OF HOLLYWOOD
BEACH MAINTENANCE OFFICE

↑ 05/19/16 PRELIMINARY PLANS
↑ 07/01/16 CITY BID PLANS
↑ 08/29/16 REV. CITY BID PLAN

Phase: PERMIT DOCUMENTS

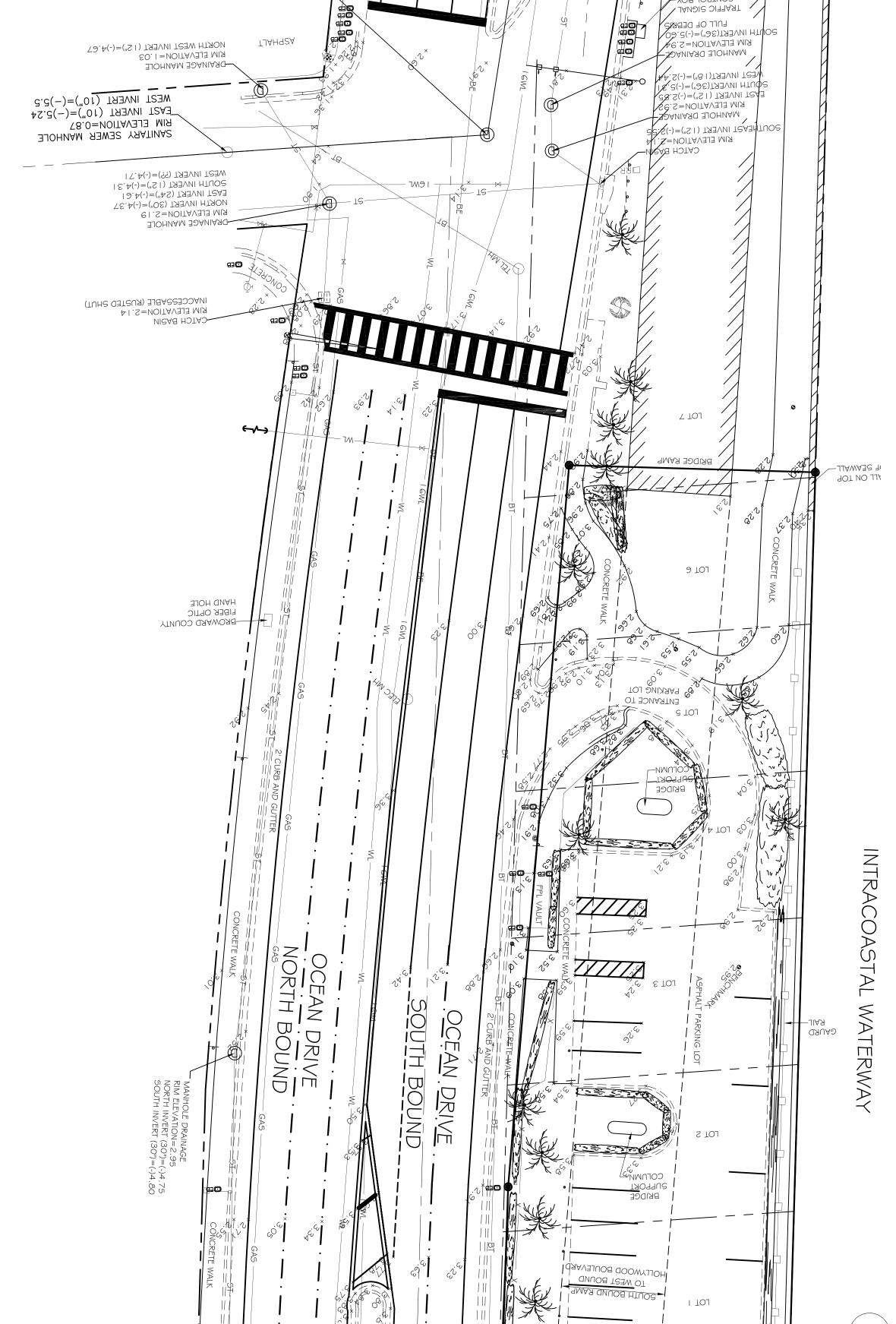
SEAL

| Scale: | Date | | NTS | 05/16/16 | | Job No. | Plot Date | Job No. Plot Date 16-1297.00 08/29/16 Drawn by Sheet No. Drawn by
DRS
Proj. Mgr.
DRS
Appr. by
DRS C2



0040 INFORMATION FROM PLANS AND MARKINGS HAVE BEEN COMBINED WITH ABOVE-GROUND, VISIBLE EVIDENCE OF UTILITIES, TOGETHER WITH GEOPHYSICAL METHODS (MAGNETIC TRACING) TO DEVELOP A VIEW OF UNDERGROUND UTILITIES, (AS SHOWN HEREON BY THEIR RESPECTIVE LINE TYPES). HOWEVER, LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY AND RELIABLY DEPICTED. WHERE ADDITIONAL OR MORE DETAILED INFORMATION IS REQUIRED, THE CLIENT IS HEREBY ADVISED THAT EXCAVATION MAY BE NECESSARY. WITH REGARD TO OBSERVED EVIDENCE (SURVEYED LOCATIONS) OF ALL UTILITIES SHOWN ON THIS SURVEY: UTILITY DISCLAIMER: Call 48 hours before you dig BENCHMARK REFERENCE - NATIONAL GEODETIC SURVEY BENCHMARK - PID AD2430 DISC IN CONCRETE AT NE CORNER OF N 9 AVENUE AT HOLLYWOOD BOULEVARD. ELEVATION = 1.68
BROWARD COUNTY ENGINEERING DEPARTMENT BM3947
ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988.
NORTH ARROW RELATIVE TO A BEARING REFERENCE OF N.03°39'5 I"E (ASSUMED MERIDIAN) ALONG THE CENTERLINE OF OCEAN DRIVE. ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY. It's the La -800-432-Sunshine State One Call Law! 4770 ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE TO BE CONSIDERED APPROXIMATE & SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF WORK OPERATIONS DERGROUND UT ID ARE SHOWN O CONSTRUCTION DERGROUND UT PER SUNSHINE LOCATES, PER UTILITY DRAWINGS PROVIDED TO THIS IONAL PURPOSES ONLY AND ARE SHOWN IN APPROXIMATE LOCATION. OCATIONS.

AND TYPES SHOWN PER CITY OF HOLLYWOOD UTILITY DRAWINGS.



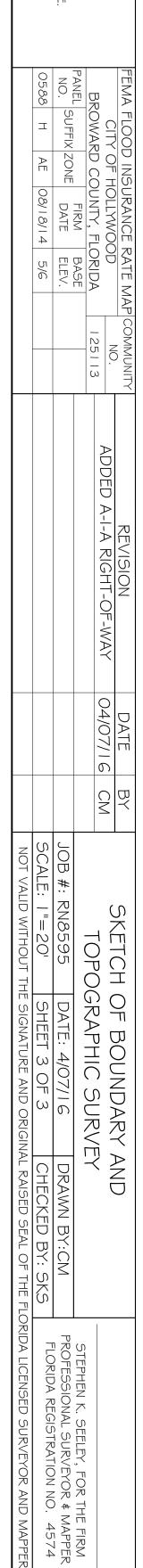
A-A (MATCH SHEET 2)

MATCH LINE

CONTROL BOX

V JANDIS DIFTART

SANITARY SEWER MANHOLE RIM ELEVATION=3.10 FAST INVERT (10")=(-)5.18 SOUTH INVERT (10")=(-)5.21



MERICAN DATUM OF 1983 / 1990

BE RELIED

SURVEY

BURIED FORCE MAIN
BURIED WATER LINE
REUSE WATERLINE
BURIED CABLE TV
BURIED ELECTRIC
BURIED GAS LINE
OVERHEAD UTILITY

CONCRETE WALL
BURIED TELEPHONE

METAL FENCE WOOD FENCE PVC FENCE

CONC.
O.R.B.
B.C.R.

BUSH

HEDGE

TREE

OFFICIAL RECORD BOOK BROWARD COUNTY RECORD

CONCRETE

CHAIN/LINK FENCE

LEGEND

EGEND

E POLE ST

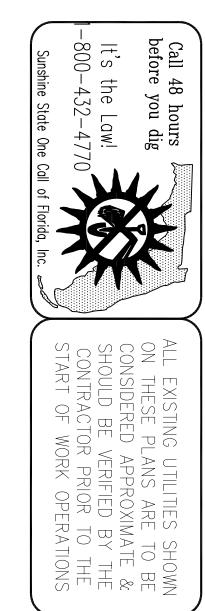
S POLE

CENTERLINE
RIGHT-OF-WAY LINE

LIMITED ACCESS RIGHT-MAST ARM

GIBBS LAND SURVEYORS
2131 HOLLYWOOD BOULEVARD, SUITE 204
HOLLYWOOD, FL 33020 (954) 923-7666
LICENSED BUSINESS NO. 7018

MATCH LINE A-A (MATCH SHEET 3) FLOOD ZONE Æ COFNWN-ELEVATION BRIDGE 9 BRIDGE PRIDGE BRIDGE ENTRANCE **TJAH9**SA \bigcirc HOLLYWOOD BOULEVARD BRIDGE HOLLYWOOD BOULEVARD BRIDGE COLUMN-BRIDGE BRIDGE BROWARD COUNTY FIBER OPTIC HAND HOLE— -JJAWA38 TTA NAVOJOP BRIDGE (SUPPORT GOLUMN___ GAURD -JIAA SOUTH BOUND RAMP TO WEST BOULEVARD HOLLYWOOD BOULEVARD SPECIAL FLOOD HAZARD BOUNDARY LINE E9 107 FLOOD ZONE AE ELEVATION 5 INTRACOASTAL WATERWAY FLOOD ZONE 79 107 SOUTH BOUND ELEVATION 6 NORTH BOUN <u> ÖCEAN DRIVE</u> 19 107 COLUMN— SUPPORT BRIDGE BRIDGE D —CATCH BASIN RIM ELEVATION= I .O7 INACCESSIBLE (FULL OF DEBRIS) FPL MANHOLE— TST ON STAND TO WEST VARD 09 107 CATCH BASIN RIM ELEVATION= 1.90 INACCESSIBLE (TUR STED SHUT) 69 107 -FPL MANHOLE RIM ELEVATION=2.35 /// BRIDGE RAMP /// AAAH 58 58



UTILITY DISCLAIMER:

WITH REGARD TO OBSERVED EVIDENCE (SURVEYED LOCATIONS) OF ALL UTILITIES SHOWN ON THIS SURVEY:

INFORMATION FROM PLANS AND MARKINGS HAVE BEEN COMBINED WITH ABOVE-GROUND, VISIBLE EVIDENCE OF UTILITIES, TOGETHER WITH GEOPHYSICAL METHODS (MAGNETIC TRACING) TO DEVELOP A VIEW OF UNDERGROUND UTILITIES, (AS SHOWN HEREON BY THEIR RESPECTIVE LINE TYPES). HOWEVER, LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY AND RELIABLY DEPICTED. WHERE ADDITIONAL OR MORE DETAILED INFORMATION IS REQUIRED, THE CLIENT IS HEREBY ADVISED THAT EXCAVATION MAY BE NECESSARY.

9040

BENCHMARK REFERENCE - NATIONAL GEODETIC SURVEY BENCHMARK - PID AD2430 DISC IN CONCRETE AT NE CORNER OF N 9 AVENUE AT HOLLYWOOD BOULEVARD. ELEVATION = 1.68 BROWARD COUNTY ENGINEERING DEPARTMENT BM3947 ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. NORTH ARROW RELATIVE TO A BEARING REFERENCE OF N.03°39'5 I"E (ASSUMED MERIDIAN) ALONG THE CENTERLINE OF OCEAN DRIVE. ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY.

SURVEYED FOR

BE RELIED

PER SUNSHINE LOCATES, PER UTILITY DRAWINGS PROVIDED TO THIS OFFICE AND PER CITY OF HOLLYWOOD UTILITY IONAL PURPOSES ONLY AND ARE SHOWN IN APPROXIMATE LOCATION. CALL SUNSHINE STATE ONE FOR LOCATES OCATIONS.

OCATIONS.

AND TYPES SHOWN PER CITY OF HOLLYWOOD UTILITY DRAWINGS. E, NORTH AMERICAN DATUM OF 1983 / 1990 OF HOLLYWOOD.

> EGEND CHAIN/LINK FENCE ED FORCE MAIN
> ED WATER LINE
> SE WATERLINE
> ED CABLE TV
> ED ELECTRIC
> ED GAS LINE LEGEND BUSH

	0588 H AE 08/18/14 5/6		PANEL FIRM BASE		CITY OF HOLLYWOOD	MAP CC
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				04/07/16 CM	
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NAL RAISED SEAL OF THE FLO	CHECKED BY: SKS	DRAWN BY:CM			
NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF THE FLORIDA LICENSED SURVEYOR AND MAPPER	FLORIDA REGISTRATION NO. 45/4	PROFESSIONAL SURVEYOR & MAPPER	STEPHEN K. SEELEY, FOR THE FIRM		

