# TOWN OF MEDLEY OFFICE OF CAPITAL PROJECTS & DEVELOPMENT SERVICES DANNY MEEHAN RECREATION FIELD IMPROVEMENTS 100% DESIGN SUBMITTAL



#### MEDLEY TOWN COUNCIL

MAYOR VICE-MAYOR COUNCIL PERSON COUNCIL PERSON COUNCIL PERSON ROBERTO MARTELL GRISELIA DIGIACOMO EDGAR AYALA JACK MORROW SUSANA GUASCH

ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION, ROADWAY AND TRAFFIC DESIGN STANDARDS (DATED LATEST EDITION, UNLESS OTHERWISE NOTED). THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (DATED LATEST EDITION, UNLESS OTHERWISE NOTED) AND SUPPLEMENTS THERETO.

ATTENTION IS DIRECTED TO THE FACT THAT
THESE PLANS MAY HAVE BEEN REDUCED IN SIZE
BY REPRODUCTION. THIS MUST BE CONSIDERED
WHEN OBTAINING SCALED DATA.

"INVESTIGATE BEFORE YOU EXCAVATE



CALL SUNSHINE 
■ 1-800-432-477

FL. STATUTE 553.851 (1979) REQUIRES A
MIN. OF 2 DAYS AND MAX. OF 5

NOT APPROVED FOR CONSTRUCTION UNLESS
STAMPED APPROVED FOR CONSTRUCTION

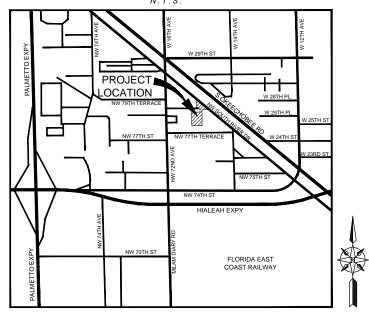
ARCHITECTS
CIVIL ENGINEERS
LANDSCAPE ARCHITECTS

MEDLEY, FLORIDA

**NOVEMBER 19, 2014** 

MEDLEY CIP TASK NO.: PR-1301.01

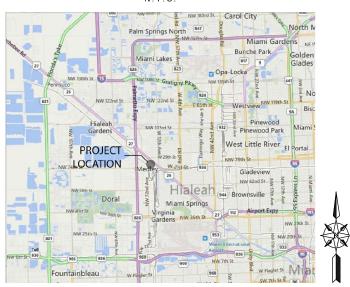
BID SET LOCATION MAP



TOWN OF MEDLEY
OFFICE OF CAPITAL PROJECTS &
DEVELOPMENT SERVICES

7777 NW 72ND AVENUE MEDLEY, FLORIDA 33166

# VICINITY MAP



SECTION 11, TOWNSHIP 53 SOUTH, RANGE 40 EAST MIAMI-DADE COUNTY, FLORIDA

ELECTRICAL ENGINEER

# **ATKINS**

CORPORATE OFFICE: LOC 4030 W. BOY SCOUT BOULEVARD 201 TAMPA, FLORIDA 33607 MIAI FBPR CERTIFICATE OF TEL AUTHORIZATION NO.24 FAX www.atkinsglobal.com

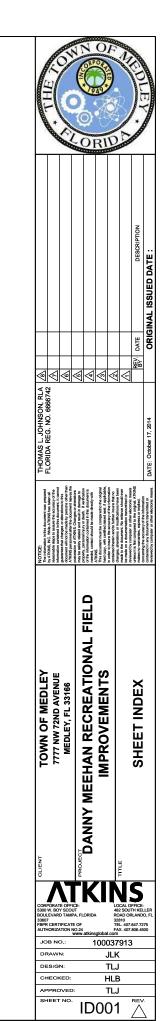
LOCAL OFFICE: 201 NW 107TH AVENUE MIAMI, FL 33172 TEL. 305.592.7275 FAX. 305.599.3809



5327 Loon Nest Court Apollo Beach, FL 33572 ph: 813.645.8288 Reg. No. EB29566

PERMIT DATA								
TYPE	APPLICATION DATE	STATUS	APPROVAL DATE	PERMIT NUMBER				

SHEET#	SHEET NAME	60% SUBMITTAL	100% SUBMITTAL	100% RE-SUBMITTAL	ISSUE FOR BID
COVER	COVER	•	•	•	
ID001	SHEET INDEX	•	•	•	
C001	GENERAL NOTES, PAY ITEMS AND LEGEND	•	•	•	
C100	EXISTING CONDITIONS & DEMOLITION PLAN	•	•	•	
C200	SITE PLAN	•	•	•	
C300	PAVING, GRADING & DRAINAGE PLAN	•	•	•	
C400	UTILITY PLAN	•	•	•	
C500	SECTIONS		•	•	
C600	CONSTRUCTION DETAILS	•	•	•	
C601	CONSTRUCTION DETAILS		•	•	
C602	UTILITY DETAILS	•		•	
C603	UTILITY DETAILS	•		•	
C700	SWPPP CONTRACTORS REQUIREMENTS	•	•	•	
C701	STORMWATER POLLUTION PREVENTION PLAN	Ď.D.	<b>C L *</b>	•	
C702	SWPPP DETAILS	BID	PE1.	•	
L001	GENERAL LANDSCAPE INFORMATION		•	•	
L101	HARDSCAPE PLAN	•		•	
L151	HARDSCAPE DETAILS	•		•	
L152	HARDSCAPE DETAILS	•		•	
L153	HARDSCAPE DETAILS	•	•	•	
L154	HARDSCAPE DETAILS		•	•	
L155	HARDSCAPE DETAILS			•	
L201	LANDSCAPE PLAN			•	
L251	LANDSCAPE DETAILS	•	•	•	
IR101	IRRIGATION PLAN	•	•	•	
IR151	IRRIGATION DETAILS	•		•	
E100	ELECTRICAL LEGEND, SCHEDULES & DETAILS			•	
E200	ELECTRICAL SITE PLAN	•	•	•	
E300	ELECTRICAL SINGLE-LINE DIAGRAM, & PANEL SCHEDULES	•	•	•	
PS100	PHOTOMETRIC LEGEND, SCHEDULES & DETAILS			•	
PS200	PHOTOMETRIC SITE PLAN - SPORTS FIELDS	•	•	•	
PS300	PHOTOMETRIC SITE PLAN - PEDESTRIAN & PARKING LOT (POLE MOUNTED OPTION)	•		•	



# 1.0 GENERAL NOTES

- 1. THE ARRANGEMENT OF DRAWINGS AND/OR THE ORGANIZATION OF THE SPECIFICATIONS INTO DIVISIONS, SECTIONS AND ARTICLES ARE FOR CLARITY ONLY AND SHALL NOT CONTROL THE CONTRACTOR IN DIVIDING THE WORK AMONG SUBCONTRACTORS OR IN ESTABLISHING THE EXTENT OF WORK TO BE PERFORMED BY ANY TRADE. THE CONTRACTOR MAY SUBCONTRACT THE WORK IN SUCH DIVISIONS AS HE SEES FIT AND HE IS ULTIMATELY RESPONSIBLE FOR 3.6. SAWCUTS SHALL BE USED FOR ALL PAVEMENT AND CURB REMOVALS WHERE EXISTING IMPROVEMENTS WILL REMAIN. FURNISHING ALL WORK SHOWN ON THE DRAWINGS AND/OR IN THE SPECIFICATIONS.
- .2. IN THE EVENT OF INCONSISTENCIES BETWEEN PARTS OF THE CONTRACT DOCUMENTS OR BETWEEN THE CONTRACT DOCUMENTS AND APPLICABLE STANDARDS, CODES AND ORDINANCES, THE CONTRACTOR SHALL: (1) PROVIDE THE BETTER QUALITY AND/OR GREATER QUANTITY OF WORK; OR (2) COMPLY WITH THE MORE STRINGENT REQUIREMENT: EITHER OR BOTH IN ACCORDANCE WITH THE ENGINEER'S INTERPRETATION. TECHNICAL SPECIFICATIONS TAKE PRIORITY OVER GENERAL SPECIFICATIONS AND DETAIL DRAWINGS TAKE PRECEDENCE OVER GENERAL DRAWINGS. ANY WORK SHOWN ON ONE DRAWING SHALL BE CONSTRUED TO BE SHOWN IN ALL DRAWINGS AND THE CONTRACTOR WILL COORDINATE THE WORK AND THE DRAWINGS. IF ANY PORTION OF THE CONTRACT DOCUMENT SHALL BE IN CONFLICT WITH ANY OTHER PORTION, THE VARIOUS DOCUMENTS COMPRISING THE CONTRACT DOCUMENTS SHALL GOVERN IN THE FOLLOWING ORDER OF PRECEDENCE: THE OWNER CONTRACTOR AGREEMENT; MODIFICATIONS; ADDENDA; AND SUPPLEMENTARY CONDITIONS; THE GENERAL CONDITIONS; THE SPECIFICATIONS; THE DRAWINGS; AS BETWEEN SCHEDULES AND INFORMATION GIVEN ON DRAWINGS. THE SCHEDULES SHALL GOVERN: AS BETWEEN FIGURES GIVEN ON DRAWINGS AND THE SCALED MEASUREMENTS, THE FIGURES SHALL GOVERN; AS BETWEEN LARGE-SCALE DRAWINGS AND SMALL SCALE DRAWINGS, THE LARGER SCALE SHALL GOVERN. ANY SUCH CONFLICT OR INCONSISTENCY BETWEEN OR IN THE DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER WHOSE DECISION THEREON SHALL BE FINAL AND CONCLUSIVE.
- FDEP AND RER. THE CONTRACTOR SHALL KEEP A COPY ON-SITE OF ALL PROJECT PERMITS AND APPROVED DRAWINGS. ALL APPLICABLE PERMITS SHALL BE OBTAINED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- .4. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) AND CITY OF NORTH MIAMI PUBLIC WORKS SPECIFICATIONS AND REQUIREMENTS. THE FLORIDA DEPARTMENT TRANSPORTATION SPECIFICATIONS WILL GOVERN IN THE EVENT OF A CONFLICT UNLESS OTHERWISE APPROVED BY THE PROJECT ENGINEER OR THE
- TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS, THE CURRENT EDITION OF THE FEDERAL HIGHWAY ADMINISTRATION, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND OTHER LOCAL DOCUMENTATION. THE CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, SUFFICIENT COPIES OF THESE PUBLICATIONS, AS NECESSARY, FOR SATISFACTORY EXECUTION OF THE WORK, AS UTILIZED IN THESE SPECIFICATIONS, THE FOLLOWING DEFINITIONS APPLY: PROJECT ENGINEER: A DESIGNATED REPRESENTATIVE OF OLETA PARTNERS, LLC. THE PROJECT ENGINEER SHALL BE THE ULTIMATE AUTHORITY REGARDING DECISIONS RELATING TO THE PLANS AND SPECIFICATIONS.
- 1.6. ALL CONSTRUCTION SHALL COMPLY WITH THE AMERICAN DISABILITIES ACT OF 1990 (ADA) AND ADA ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (ADAAG), LATEST EDITION.
- 7. SURVEY INFORMATION HAS BEEN PROVIDED BY HADONNE CORP, PROJECT 09041, DATED APRIL 2,2014. LOCATION OF EXISTING TOPOGRAPHIC CONTOURS SHOWN HEREON IS APPROXIMATE. ELEVATIONS SHOWN ARE BASED ON NGVD 1929. ANY ERRORS RESULTING FROM THE USE OF THE SURVEY INFORMATION SHALL NOT BE THE RESPONSIBILITY OF ATKINS.
- 1.8. ACCORDING TO F.I.R.M.(FLOOD INSURANCE RATE MAP PANELS 12086C0281 AND 1086C077 SUFFIX L DATED SEPTEMBER 11, 2009, THIS PROPERTY IS LOCATED IN FLOOD ZONES "X", "AH" (BFE 7.0, AND "AE" (BFE 7.0).
- 1.9. THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE BASED ON ABOVE-GROUND STRUCTURES AND MARKINGS PROVIDED BY UTILITY COMPANIES AND AS-BUILT DRAWINGS PROVIDED TO THE SURVEYOR. LOCATIONS OF UNDERGROUND UTILITIES/STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED.
- .10.IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATIONS AND CRITICAL ELEVATIONS OF UTILITIES AND COORDINATE WITH THE APPROPRIATE AUTHORITIES AND UTILITY OWNER PRIOR TO CONSTRUCTION. ANY UTILITY CONFLICTS OR DISCREPANCIES ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND OWNER PRIOR TO CONSTRUCTION.
- .11.THE CONTRACTOR SHALL NOTIFY SUNSHINE ONE AT (800) 432-4770 TO REQUEST UTILTY LOCATES AND SHALL OBTAIN A LISTING OF ALL EXISTING UTILITY COMPANIES WITH FACILITIES IN THE AREA AT LEAST 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL FOLLOW UP WITH ALL LISTED UTILITY PROVIDERS TO CONFIRM THE LOCATION OF THEIR FACILITIES WITHIN THE PROJECT AREA.
- .12.ALL TRENCHES EXCEEDING 5 FEET IN DEPTH SHALL COMPLY WITH SECTIONS 553.63 AND 553.64 OF THE FLORIDA STATUTES. THE CONTRACTOR SHALL PROVIDE THE FOLLOWING WHEN TRENCH EXCAVATION EXCEEDS 5 FEET IN DEPTH: 1. WRITTEN ASSURANCE OF COMPLIANCE WITH OSHA STANDARD 29 CFR SECTION 1926.650 SUBPART P.
- 2. A SEPARATE COST ITEM IDENTIFYING THE COST OF COMPLIANCE. 3. A TRENCH SAFETY SYSTEM SHALL BE DESIGNED BY THE CONTRACTOR.
- .13.THE CONTRACTOR SHALL FOLLOW ALL OSHA REQUIREMENTS FOR CRANE AND HOIST SAFETY, INCLUDING MAINTAINING MINIMUM VERTICAL AND HORIZONTAL CLEARANCES FROM POWER LINES.
- .14.THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING HORIZONTAL AND VERTICAL CONTROL FOR SITE CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL SURVEY MONUMENTATION. ANY DISTURBED SURVEY MONUMENTATION SHALL BE REPLACED BY A SURVEYOR LICENSED IN THE STATE OF FLORIDA.
- .15.ALL CONCRETE USED ON PROJECT SITE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS, UNLESS OTHERWISE NOTED.
- .16.THE CONTRACTOR IS RESPONSIBLE FOR ANY CONSTRUCTION PHASING PLANS AND INTERIM LOGISTICS, DRAINAGE, UTILITIES, ETC. AND APPROPRIATE MEANS AND METHODS AS MAY REQUIRED TO CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE APPROVED CONSTRUCTION PLANS
- 17.A CONSUMPTIVE USE PERMIT SHALL BE OBTAINED AND MAINTAINED BY THE CONTRACTOR FOR ANY SITE DEWATERING. 5.9. ALL UNDERGROUND UTILITIES MUST BE INSTALLED BEFORE ROADWAY BASE AND SURFACE COURSES ARE THE CONTRACTOR SHALL MAINTAIN APPLICABLE WATER QUALITY STANDARDS, AND SHALL BE RESPONSIBLE FOR ANY FINES LEVIED BY THE REGULATORY AGENCIES DUE TO USE OF IMPROPER TECHNIQUES DURING DEWATERING.

# 2.0 EROSION AND SEDIMENT CONTROL

- .1. THE CONTRACTOR SHALL FILE A NOTICE OF INTENT (NOI) TO USE THE GENERIC PERMIT FOR STORMWATER DISCHARGE FOR LARGE AND SMALL CONSTRUCTION ACTIVITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL FOLLOW THE STORMWATER POLLUTION PREVENTION PLAN REQUIREMENTS PROVIDED IN THE CONSTRUCTION
- 2. PRE-CONSTRUCTION CONFERENCE: AT THE PRE-CONSTRUCTION CONFERENCE, THE CONTRACTOR SHALL PRESENT, IN WRITTEN FORM, HIS PLANS & SCHEDULES FOR PREVENTION, CONTROL, & ABATEMENT OF EROSION & WATER POLLUTION IN ACCORDANCE WITH FDOT SUBSECTION 104-5.
- .3. THE CONTRACTOR SHALL PROTECT ALL DISTURBED AREAS AND EXISTING AND PROPOSED STORM WATER AND STORM SEWER SYSTEMS FROM EROSION AND SEDIMENTATION DURING CONSTRUCTION. DAMAGE TO ANY EROSION OR 5.13.ALL SPOT ELEVATIONS WITHIN PAVED AREAS ARE AT THE EDGE OF PAVEMENT. SEDIMENTATION CONTROL MEASURE, OR EROSION OR DAMAGE DUE TO EROSION OR SEDIMENTATION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR WITH NO ADDITIONAL COMPENSATION. ALL NEW AND EXISTING STORM WATER RETENTION AREAS AND STORM SEWER INLETS AND PIPES SHALL BE CLEAN AND FREE FROM SILT PRIOR TO FINAL
- 4. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETED, SOILS ARE STABILIZED, AND VEGETATION HAS BEEN ESTABLISHED.

# .0 DEMOLITION, CLEARING AND GRUBBING

- .1 CLEARING AND GRUBBING SHALL INCLUDE REMOVAL AND DISPOSAL OF ALL TREES, STUMPS, ROOTS, AND OTHER SUCH PROTRUDING OBJECTS, EXISTING STRUCTURES, PIPES, PAVEMENT, SIDEWALKS, CURBS, WALLS, EXISTING BRIDGE STRUCTURE, RIP RAP, GUARDRAIL, ETC.
- PROJECT IN A MANNER THAT MEETS ALL FEDERAL, STATE, AND LOCAL REGULATIONS CONCERNING DUMPING OF WASTE OR CONSTRUCTION MATERIALS. ANY SALVAGE VALUE RECEIVED FROM THE REMOVED MATERIALS SHALL BE REFLECTED IN THE CONTRACTOR'S PROPOSAL. THE CONTRACTOR SHALL DISPOSE OF BROKEN CONCRETE AND ASPHALT PAVEMENT OUTSIDE THE PROJECT.
- .3 IN ALL AREAS SHOWN IN THE PLANS TO BE CLEARED AND GRUBBED, ROOTS AND OTHER DEBRIS SHALL BE REMOVED TO A DEPTH OF AT LEAST ONE FOOT BELOW THE GROUND SURFACE. THE SURFACE SHALL THEN BE PLOWED TO A DEPTH OF AT LEAST SIX INCHES AND ALL ROOTS THEREBY EXPOSED SHALL BE REMOVED TO A DEPTH OF AT LEAST ONE FOOT. ALL STUMPS WITHIN THE AREA TO BE CLEARED AND GRUBBED SHALL BE COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR. WHERE EXCAVATION IS DONE, ALL ROOTS, ETC., PROTRUDING THROUGH OR APPEARING ON THE SURFACE OF THE COMPLETED EXCAVATION SHALL BE REMOVED TO A DEPTH OF AT LEAST ONE FOOT BELOW THE
- .4 ALL AREAS OUTSIDE OF THE LIMITS OF CONSTRUCTION THAT ARE DISTURBED BY THE CONTRACTOR SHALL BE RESTORD TO THEIR ORIGINAL CONDITION (INCLUDING ROADWAYS, SWALES, DRIVEWAYS, AND VEGETATION) AT NO INCREASE IN COST TO THE OWNER. SEED AND MULCH ALL DISTURBED AREAS WHICH DO NOT HAVE EXISTING LANDSCAPING. EXCESS DIRT SHALL BE HAULED FROM THE SITE. RESTORATION OF ROADWAYS SHALL BE AS REQUIRED BY CITY OF NORTH MIAMI.

- 3.5. EXISTING FACILITIES, INCLUDING UTILITIES, PAVEMENT, SIDEWALKS, CURBS AND IMPROVEMENTS SHOWN TO REMAIN SHALL BE PROTECTED OR REPLACED IF DAMAGED DURING CONSTRUCTION AT NO INCREASE IN COST TO OWNER.
- 3.7. ALL EXISTING NUISANCE SPECIES (BRAZILIAN PEPPER, ETC.) SHALL BE REMOVED AND DISPOSED OF AT AN APPROVED
- 3.8. REMOVAL OF EXISTING STRIPING SHALL BE ACCOMPLISHED BY GRINDING, UNLESS OTHERWISE APPROVED BY THE PROJECT ENGINEER OR OWNER. THIS ITEM IS CONSIDERED INCIDENTAL TO THE PROJECT AND SEPARATE PAYMENT SHALL NOT BE MADE.

#### 4.0 EXCAVATION AND EMBANKMENT

- 4.1. THE CONTRACTOR SHALL REFER TO THE PROJECT GEOTECHNICAL REPORT BY PSI, INC, PROJECT NO. 0397-74711-23-5211, DATED 6/20/2014 FOR STRIPPING AND GRUBBING, PROOF ROLLING, FILL AND COMPACTION OF FILL REQUIREMENTS.
- 4.2. ALL EXCAVATION, EMBANKMENT AND GRADING WORK SHALL CONFORM TO THE REQUIREMENTS OF SECTION 120 OF THE STANDARD SPECIFICATIONS. THE LUMP SUM PRICE FOR EXCAVATION AND EMBANKMENT SHALL INCLUDE ALL REGULAR EXCAVATION, SUBSOIL EXCAVATION, ROADWAY EMBANKMENTS IN DITCH EMBANKMENTS, ALL NECESSARY EXCAVATION OF EXISTING DITCH BANKS AS NECESSARY, AND HAULING OF MATERIALS FOR COMPLETION OF THE PROJECT.
- .3. ALL CONSTRUCTION SHALL COMPLY WITH REGULATIONS AND PERMIT CONDITIONS FROM CITY OF NORTH MIAMI, SFWMD, 4.3. THE BIDDER, BY AND THROUGH THE SUBMISSION OF HIS BID, AGREED THAT HE SHALL BE HELD RESPONSIBLE FOR HAVING THERETOFORE EXAMINED THE SITE, THE LOCATION OF ALL PROPOSED WORK, AND FOR HAVING SATISFIED HIMSELF FROM HIS OWN PERSONAL KNOWLEDGE AND NATURE OF THE GROUND, SURFACE, SUBSURFACE, AND ANY OTHER CONDITIONS SURROUNDING AND AFFECTING THE WORK.
  - 4.4. RETENTION AREA, SWALE AND DITCH CONSTRUCTION/REGRADING WORK TO BE INCLUDED IN THE COSTS FOR EXCAVATION AND EMBANKMENT. FINAL DRESSING TO PREPARE THE EARTHWORK TO ALLOW PLACEMENT OF TOPSOIL AND SOD, RESHAPING OF SLOPES TO MATCH ADJACENT CURBING OR PAVEMENT SHALL BE INCLUDED IN THE COSTS FOR EXCAVATION AND EMBANKMENT.
- .5. FREQUENT REFERENCES IN THESE NOTES AND DRAWINGS ARE MADE TO THE FLORIDA DEPARTMENT OF 4.5. WHERE MUCK, ROCK, CLAY OR OTHER MATERIAL WITHIN THE LIMITS OF CONSTRUCTION IS UNSUITABLE IN ITS ORIGINAL CONDITION, THE CONTRACTOR SHALL EXCAVATE SUCH MATERIAL TO THE CROSS-SECTIONS SHOWN IN THE PLANS OR INDICATED BY THE ENGINEER AND SHALL BACK FILL WITH SUITABLE MATERIAL WHICH SHALL BE SHAPED TO CONFORM TO THE REQUIRED CROSS-SECTIONS. THE CONTRACTOR SHALL USE A GEOTECHNICAL FIELD TECHNICIAN TO FIELD VERIFY THE REMOVAL OF UNSUITABLE SOILS. COPIES OF REPORTS SHALL BE PROVIDED TO THE ENGINEER.
  - 4.6. QUANTITIES PROVIDED IN THE SUMMARY OF PAY ITEMS ARE COMPACTED IN PLACE VOLUMES.

#### 5.0 DRAINAGE AND GRADING

- 5.1. POSITIVE DRAINAGE FACILITIES SHALL BE ESTABLISHED PRIOR TO THE CONSTRUCTION OF ANY IMPERVIOUS SURFACES. EXISTING OFF-SITE DRAINAGE PATTERNS SHALL BE MAINTAINED DURING CONSTRUCTION.
- 5.2. STORM SEWER STRUCTURES SHALL BE IN ACCORDANCE WITH FDOT DESIGN STANDARDS AND SPECIFICATIONS.
- 5.3. HDPE STORM SEWER CONSTRUCTION SHALL BE ADS N-12 PIPE OR APPROVED EQUAL. PIPE SHALL HAVE A SMOOTH INTERIOR AND CORRUGATED EXTERIOR AND SHALL MEET THE REQUIREMENTS OF AASHTO M294 AND FDOT SECTION 948-2.3.1 WITH A MANNING'S "N" VALUE OF 0.012.

JOINTS SHALL BE SOILTIGHT INTEGRAL BELL JOINT MEETING THE REQUIREMENTS OF AASHTO M294 AND FDOT SECTION

GASKETS SHALL BE MADE OF POLYISOPRENE MEETING THE REQUIREMENTS OF ASTM F477. GASKETS SHALL BE INSTALLED BY THE PIPE MANUFACTURER AND COVERED WITH A REMOVABLE, PROTECTIVE WRAP TO ENSURE THI

PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM D2321 AND MANUFACTURERS REQUIREMENTS. MINIMUM COVER DURING CONSTRUCTION SHALL BE ONE FOOT.

- 5.4. PIPE FOR ROOF DRAINS AND STORM SEWER CONSTRUCTION SHALL BE PVC MEETING ASTM D3034, SDR 35 SPECIFICATIONS OR HDPE MEETING AASHTO M252 TYPES, OR AASHTO M294 TYPE S OR SP, DEPENDING ON THE SIZE OF PIPE AND AS SPECIFIED ON THE PLANS. HDPE PIPE SHALL HAVE A CORRUGATED EXTERIOR, SMOOTH INTERIOR, AND PUSH-ON JOINTS WHICH ARE SILT TIGHT. HDPE FITTINGS SHALL CONFORM TO AASHTO M294. FABRICATED FITTINGS SHALL BE WELDED ON THE INSIDE AND OUTSIDE AT ALL JUNCTIONS. GASKETS SHALL BE INSTALLED BY THE PIPE MANUFACTURER. INSTALLATION SHALL CONFORM TO ASTM D2321. ROOF DRAIN PIPE SLOPE SHALL BE 1% UNLESS NOTED OTHERWISE. PERFORATED PIPE SHALL HAVE A SOIL FILTER SOCK.
- 5.5. RIP RAP SHALL MEET THE REQUIREMENTS OF FDOT SPECIFICATION SECTION 530. GEOTEXTILE FABRIC SHALL MEET THE REQUIREMENTS OF FDOT INDEX 199 & FDOT SPECIFICATION SECTION 514 & 985. TURF MAT SHALL MEET THE REQUIREMENTS OF FDOT INDEX 199 & FDOT SPECIFICATION SECTION 985.
- 5.6. ALL DRAINAGE PIPES AND STRUCTURES WITHIN PROJECT BOUNDARY SHALL BE CLEANED OF SAND. SILT. CONCRETE DEBRIS, ETC. AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO MAINTAIN POSITIVE DRAINAGE. THE COST OF CLEANING AND DESILTING SHALL BE INCLUDED IN THE COST FOR DRAINAGE CONSTRUCTION.
- 5.7. THE COST OF PAVEMENT RESTORATION, INCLUDING PAVEMENT MARKINGS, SHALL BE INCLUDED IN THE COST FOR DRAINAGE IMPROVEMENT CONSTRUCTION.
- 5.8. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE SLOPES OF ALL SWALES, EMBANKMENTS AND RETENTION AREAS. EXCESS SEDIMENTATION AND EROSION SHALL BE REMOVED AND THE DESIGN GRADES RESTORED AT NO

INCREASED COST TO OWNER. THE COST OF GRADE, SLOPE RESTORATION AND SEDIMENT REMOVAL SHALL BE

CONSTRUCTED. ALL PIPE LENGTHS ARE APPROXIMATE AND ARE MEASURED FROM CENTER OF FITTINGS AND/OR STRUCTURES. MAINTAIN MINIMUM COVER OVER STORM DRAIN PIPE AS REQUIRED BY MANUFACTURER DURING AND AFTER CONSTRUCTION.

5.10.SOD AND LANDSCAPING SHALL NOT IMPEDE THE FLOW OF RUNOFF FROM PAVED SURFACES.

- 5.11.SOD ALL SIDE SLOPES, SEED AND MULCH THE BOTTOM OF DRY RETENTION AREAS NOT OTHERWISE LANDSCAPED.
- 5.12.THE CONTRACTOR SHALL ADJUST VALVE BOX COVERS, MANHOLE RIMS AND COVERS, GRADES, ETC., NECESSARY TO MATCH FINAL GRADES AS SHOWN ON PLANS. ALL EXISTING AND PROPOSED UTILITY AND STORM WATER STRUCTURES WHOSE TOPS WILL BE EXPOSED WITHIN UNPAVED AREAS SUBJECT TO VEHICULAR, BICYCLE, OR PEDESTRIAN TRAFFIC SHALL BE ADJUSTED SO THAT THE TOP SURFACE OF COVERS OR FRAMES SHALL BE NO MORE THAN ONE INCH ABOVE FINISHED GRADE, UNLESS OTHERWISE SPECIFIED ON THESE PLANS. WHERE SOD IS APPLIED, FINISHED GRADE SHALL BE NOMINAL HEIGHT OF GRASS AFTER SOD IS FIRMLY PLACED.

INCLUDED IN THE COST FOR DRAINAGE IMPROVEMENT CONSTRUCTION.

- 5.14.THE CONTRACTOR SHALL USE LASER GRADING TO GRADE THE SOCCER FIELD TO 0.10 FT. ELEVATION TOLERANCE PRIOR TO PLACING SOD. THE CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY OF THE LASER GRADED SURFACE FOR REVIEW AND APPROVAL BY THE TOWN PRIOR TO PLACING SOD. THE AS-BUILT SURVEY SHALL BE ON A 20 FT. GRID EXTENDING TO THE SURROUNDING HARDSCAPE SURFACE. ANY RE-GRADING OR RE-SODDING REQUIRED TO CORRECT GRADING DEFICIENCIES SHALL BE AT NO ADDITIONAL COST TO THE OWNER. THE COST FOR LASER GRADING SHALL BE INCLUDED IN THE COST FOR EARTHWORK
- 5.15.GRADES SHOWN ARE FINISH GRADES. THE CONTRACTOR SHALL ADJUST GRADING AS NECESSARY TO ACCOMMODATE THE SOD THICKNESS TO MEET THE DESIGN ELEVATION SHOWN ON THE PLANS.

- 2 ALL MATERIALS REMOVED SHALL BECOME PROPERTY OF THE CONTRACTOR, AND SHALL BE REMOVED FROM THE 6.1. STABILIZATION OF PAVED AND UNPAVED AREAS SHALL BE IN ACCORDANCE WITH FDOT SECTION 160 AND AS NOTED ON
  - 6.2. CONSTRUCTION OF PAVEMENT BASE SHALL BE IN ACCORDANCE WITH FDOT SECTION 200 AND AS NOTED ON THE PLANS.
  - 6.3. PRIME AND TACK COATS SHALL BE IN ACCORDANCE WITH FDOT SECTION 300.
  - 6.4. MILLING OF EXISTING ASPHALT SHALL BE IN ACCORDANCE WITH FDOT SECTION 327.
  - 6.5. ASPHALT PAVEMENT SHALL BE IN ACCORDANCE WITH FDOT SECTIONS 330, 334, 336, 337 AND 339.
  - 6.6. PRIOR TO PAVING OPERATIONS, THE CONTRACTOR SHALL VERIFY THE BASE GRADE ELEVATIONS ARE IN CONFORMANCE WITH THE CONSTRUCTION PLANS AND DESIGN CROSS SLOPES SUCH THAT THE PAVEMENT GRADES WILL PROVIDE POSITIVE DRAINAGE AND NOT EXCEED MAXIMUM ALLOWABLE SLOPES. ANY GRADES OR SLOPES OUT OF TOLERANCE SHALL BE CORRECTED PRIOR TO PAVING OPERATIONS AT NO INCREASE IN COST TO OWNER.

7.1. ALL SIDEWALK DISTANCES ARE TO BE MEASURED FROM THE BACK OF CURB.

- 7.2. WHERE SIDEWALKS TERMINATE AT PAVED AREAS, GRADES EXCEEDING 20:1 SHALL BE RAMPED AT A MAXIMUM SLOPE OF 12H:1V TO BE FLUSH WITH DRIVE. ALL CURB RAMPS SHALL CONFORM TO ADA REQUIREMENTS, MIAMI DADE COUNTY AND FDOT REQUIREMENTS.
- 7.3. TRUNCATED DOMES SHALL BE CAST IN PLACE BRICK RED; MFR BY ARMOR TILE OR APPROVED EQUAL; INSTALLED PER MFR INSTRUCTIONS AND IN ACCORDANCE WITH FDOT DESIGN STANDARDS.
- 7.4. SIDEWALKS SHALL BE CONSTRUCTED IN CONFORMANCE WITH INDEX NO. 310 OF THE FDOT ROADWAY & TRAFFIC DESIGN STANDARDS. SIDEWALKS SHALL ALSO COMPLY WITH ADA STANDARDS.
- 7.5. COORDINATE FINISH AND PATTERNS WITH LANDSCAPE AND HARDSCAPE DRAWINGS. OTHERWISE PROVIDE LIGHT

#### 8.0 FIRE PROTECTION

- 8.1. WATER FOR FIRE FIGHTING PURPOSES SHALL BE AVAILABLE AT THE TIME COMBUSTIBLES ARE BROUGHT ON SITE.
- 8.2. ACCESS TO THE PROJECT SITE SHALL BE PROVIDED BY A MINIMUM 20-FOOT WIDE UNOBSTRUCTED ALL-WEATHER DRIVING SURFACE, CAPABLE OF SUPPORTING THE LOADS IMPOSED BY RESPONDING EMERGENCY APPARATUS. SUCH ACCESS SHALL BE MAINTAINED AT ALL TIMES.
- 8.3. NEW HYDRANTS SHALL BE POSITIONED IN ACCORDANCE WITH TOWN OF MEDLEY REQUIREMENTS

a. AS-BUILT LOCATION AND FINISH GRADE ELEVATION OF CONSTRUCTED IMPROVEMENTS.

#### 9.0 TESTING AND AS-BUILTS

- 9.1. THE CONTRACTOR SHALL USE A CERTIFIED CONSTRUCTION MATERIALS TESTING LABORATORY TO PROVIDE MATERIALS AND DENSITY TESTING IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. TESTING REPORTS SHALL BE COPIED TO THE ENGINEER'S
- 9.2. PRIOR TO PAVING OPERATIONS, THE CONTRACTOR SHALL VERIFY THE BASE GRADE ELEVATIONS ARE IN CONFORMANCE WITH THE CONSTRUCTION PLANS AND DESIGN CROSS SLOPES SUCH THAT THE PAVEMENT GRADES WILL PROVIDE POSITIVE DRAINAGE AND NOT EXCEED MAXIMUM ALLOWABLE SLOPES. ANY GRADES OR SLOPES OUT OF TOLERANCE SHALL BE CORRECTED PRIOR TO PAVING OPERATIONS AT NO INCREASE IN COST TO OWNER.
- 9.3. BEFORE REQUESTING FINAL INSPECTION BY THE ENGINEER AND BEFORE PLACING SOD, THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A COMPLETE AS-BUILT SURVEY FROM A REGISTERED SURVEYOR, AS FOLLOWS:
- b. AS-BUILT LOCATION AND ELEVATION OF PAVEMENT AT ELEVATION POINTS SHOWN ON PLANS, AND WHERE EXISTING PAVEMENT IS REPLACED OR OVERLAYED; AT SUFFICIENT POINT TO DETERMINE GRADE AND DRAINAGE PATTERNS,
- c. AS-BUILT LOCATION AND ELEVATION OF WALKS, AND OTHER CONSTRUCTED IMPROVEMENTS SUCH AS DUMPSTER ENCLOSURES, MECHANICAL PADS, FENCING, ETC, d. AS-BUILT PERIMETER, SLOPE BREAK AND BOTTOM ELEVATIONS OF ALL SWALES AND RETENTION AREAS,
- e. AS-BUILT LOCATION, RIM/FLOW AND INVERT ELEVATIONS, TYPE, SIZE AND SLOPE OF ALL DRAINAGE STRUCTURES AND PIPES, INCLUDING WEIRS, ORIFICES AND OTHER APPURTENANCES. f. NOTE: THE ORIGINAL DESIGN GRADE SHALL BE SHOWN ON THE AS-BUILT SURVEY WITH A STRIKE THROUGH MARK AND THE AS-BUILT ELEVATION SHALL BE SHOWN IMMEDIATELY ABOVE. THIS APPLIES TO ALL DRAFT SURVEYS

#### 10.0 SIGNAGE AND PAVEMENT MARKING

SUBMITTED FOR REVIEW AND FINAL SURVEYS.

10.1. ALL TRAFFIC CONTROL DEVICES SHALL MEET THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION AND FEDERAL HIGHWAY ADMINISTRATION, AND FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS AND TOWN OF MEDLEY PUBLIC

GASKET AND BELL DURING ASSEMBLY.

INSTALLED BY THE PIPE MANUFACTURER AND COVERED WITH A REMOVABLE, FROTEGIVE WIND TO ENGLISH WIND TO ENGLISH WIND TO ENGLISH WIND TO ENGLISH WIND THE PIPE MANUFACTURER AND COVERED WITH A REMOVABLE, FROTEGIVE WIND TO ENGLISH WIND TO ENGLIS

10.3. STOP BARS SHALL BE 24" WIDE, WHITE, THERMOPLASTIC TRAFFIC PAINT.

- 10.4. ALL PAVEMENT MARKINGS NOT OTHERWISE SPECIFIED ON PLANS SHALL BE THERMOPLASTIC. THERMOPLASTIC TRAFFIC STRIPING AND MARKINGS SHALL BE IN ACCORDANCE WITH SECTION 711 OF THE FDOT SPECIFICATIONS. PROVIDE TEMPORARY PAINTED PAVEMENT MARKINGS DURING 30 DAY PAVEMENT CURE TIME PRIOR TO INSTALLING THERMOPLASTIC PAVEMENT MARKINGS.
- 10.5.RAISED RETRO-REFLECTIVE PAVEMENT MARKINGS AND BITUMINOUS ADHESIVE SHALL BE IN ACCORDANCE WITH FDOT SECTION 706.

- 11.1.SODDING, WATER, MOWING AND FERTILIZER SHALL BE IN ACCORDANCE WITH FDOT SECTIONS 981, 982 AND 983. SOD FOR THE PROJECT SHALL BE BAHIA, EXCEPT THAT NEW SOD SHALL MATCH THE EXISTING TYPE ADJACENT TO THE PROPOSED CONSTRUCTION.
- 11.2. SOD SHALL BE PINNED ON SLOPES STEEPER THAN 3:1 AND WHERE INDICATED ON PLANS. ALL COSTS OF SOD WILL BE AS SHOWN ON THE BID FORM.
- 11.3.THE CONTRACTOR IS RESPONSIBLE FOR CARE, WATERING, FERTILIZING OF THE SOD, AND ALL OTHER RELATED WORK NECESSARY TO COMPLETE THE PROJECT (INCLUDED IN COST OF SOD QUANTITY ITEM).
- 11.4. ALL MAINTENANCE, MOWING, WATERING, REPAIR AND REPLACEMENT OF SOD IS INCLUDED PRIOR TO ACCEPTANCE BY
- 11.5. SOD MUST BE ROOTED TO THE GROUND 95% WEED-FREE, AND GREEN, FOR FINAL ACCEPTANCE BY OWNER.

- 12.1.DURING ALL PHASES OF THE WORK, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE SAFETY MARKINGS & BARRICADES AS REQUIRED TO TO MAINTAIN COMPLETE JOB SITE SAFETY AND SECURITY DURING ALL PHASES OF THE
- 12.2.PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PREPARE A MAINTENANCE OF TRAFFIC (MOT) PLAN IN COMPLIANCE WITH TOWN OF MEDLEY AND MIAMI-DADE COUNTY REQUIREMENTS AND FDOT INDEX 600, 601, 606, 613 AND 660. THE MOT PLAN SHALL BE ON 11 X 17 PAPER AND INCLUDE A NARRATIVE DESCRIPTION AND ANY PHASING. THE CONTRACTOR SHALL SUBMIT THE MOT PLAN A MINIMUM OF 2 WEEKS IN ADVANCE OF THE PROPOSED START DATE OF CONSTRUCTION TO THE TOWN AND COUNTY FOR APPROVAL PRIOR TO CONSTRUCTION.
- 12.3.TRAFFIC CONTROL TECHNIQUES, INCLUDING REROUTING OF TRAFFIC, SIGNING AND STRIPING, SHALL BE IN CONFORMANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION MANUAL ON TRAFFIC CONTROL AND SAFE PRACTICES, MOST CURRENT EDITION.
- 12.4.ONLY TYPE VII FLUORESCENT ORANGE SHEETING, AS SPECIFIED IN THE FDOT SPECIFICATION 994-3 SHALL BE USED FOR SIGNS AND BARRICADES USED IN CONJUNCTION WITH MAINTENANCE OF TRAFFIC. THE REFLECTIVE SHEETING ON SIGNS AND BARRICADES SCRATCHED OR DAMAGED TO THE POINT THAT REFLECTIVITY IS IMPAIRED SHALL BE REPLACED.
- 12.5. ALL CONSTRUCTION WARNING SIGNS SHALL BE 48" X 48" OR LARGER ALONG THE PROJECT. ALL CONSTRUCTION SIGNS FOR SIGNALIZED INTERSECTIONS SHALL BE 48" X 48" OR LARGER ALONG CROSS ROADS. ALL CONSTRUCTION SIGNS FOR NON-SIGNALIZED INTERSECTIONS SHALL BE 36" X 36" OR LARGER ALONG CROSS ROADS AND SHALL BE SUPPLIED BY THE
- 12.6.DRIVEWAYS TO PRIVATE RESIDENCES AND ALL PUBLIC STREET CONNECTIONS SHALL REMAIN OPEN EXCEPT FOR VERY SHORT PERIODS ASSOCIATED WITH A CRITICAL, MOMENTARY POINT OF CONSTRUCTION OPERATION.
- 12.7.THE LUMP SUM PRICE FOR MAINTENANCE OF TRAFFIC SHALL INCLUDE FULL COMPENSATION FOR BARRICADES, TEMPORARY BARRIERS, TEMPORARY GUARD RAILS, CONSTRUCTION SIGNS, FLASHING ARROW BOARDS, WARNING LIGHTS, TEMPORARY PAVEMENT MARKINGS, TEMPORARY SIGNALS, TRAFFIC DIRECTION, AND OTHER RELATED ITEMS THAT MAY BE REQUIRED TO CONFORM TO THE MANUAL ON TRAFFIC CONTROL AND SAFE PRACTICES.
- 12.8.CONFLICTING OR MISLEADING PAVEMENT MARKINGS SHALL BE REMOVED BY WATER BLASTING. ALL EXISTING PAVEMENT MARKINGS OUTSIDE THE LIMITS OF CONSTRUCTION WHICH ARE ALTERED SHALL BE REPLACED UPON COMPLETION OF THE PROJECT. REMOVAL OF EXISTING PAVEMENT MARKING AND ADDING OF REMOVABLE OR TEMPORARY PAVEMENT MARKINGS OR REFLECTIVE TAPE SHALL BE COMPLETED USING FDOT INDEX 600 OR SUITABLE LANE CLOSURE INDEXES WHERE FEASIBLE.

# **ABBREVIATIONS**

**EXISTING GRADE** EOP EDGE OF PAVEMENT LIMITS OF CONSTRUCTION/MATCH EXISTING GRADE LOC/MEG

O.C. ON CENTER RPM RAISED PAVEMENT MARKER POINT OF CURVATURE POINT OF TANGENCY

**EXISTING** INVERT **APPROX APPROXIMATE** 

# **EXISTING CONDITIONS LEGEND**

FOUND IRON ROD **BENCHMARK** CONCRETE POWER POLE LIGHT POLE WOOD POWER POLE **GUY ANCHOR PULL BOXES** 

**EXISTING ELEVATIONS** 

WELL FIRE HYDRANT TRAFFIC SIGN

PROPOSED CONDITIONS LEGEND

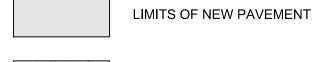
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YARD DRAIN TYPE 'C' INLET BACKFLOW PREVENTOR WATER METER CLEANOUT VALVE

TRUNCATED DOMES DRAINAGE PIPE LIMITS OF CONSTRUCTION / LIMITS OF CLEARING AND GRUBBING



SILT FENCING





LIMITS OF PROPOSED CONCRETE PAVING

LIMITS OF PROPOSED CONCRETE

SIDEWALK (PER FDOT INDEX 310)

LIMITS OF PROPOSED BRICK PAVERS 0.00 -0.00 PROPOSED ELEVATIONS

# SHEET INDEX

SHEET#	SHEET TITLE	
C-001	GENERAL NOTES AND LEGEND	*
C-100	EXISTING CONDITIONS AND DEMO PLAN	*
C-200	SITE PLAN	*
C-300	PAVING, GRADING AND DRAINAGE PLAN	*
C-400	UTILITY PLAN	*
C-500	SECTIONS	*
C-600	CONSTRUCTION DETAILS	*
C-601	CONSTRUCTION DETAILS	*
C-602	UTILITY DETAILS	*
C-603	UTILITY DETAILS	*
C-700	SWPPP CONTRACTORS REQUIREMENTS	*
C-701	STORMWATER POLLUTION PREVENTION PLAN	*
C-702	SWPPP DETAILS	*

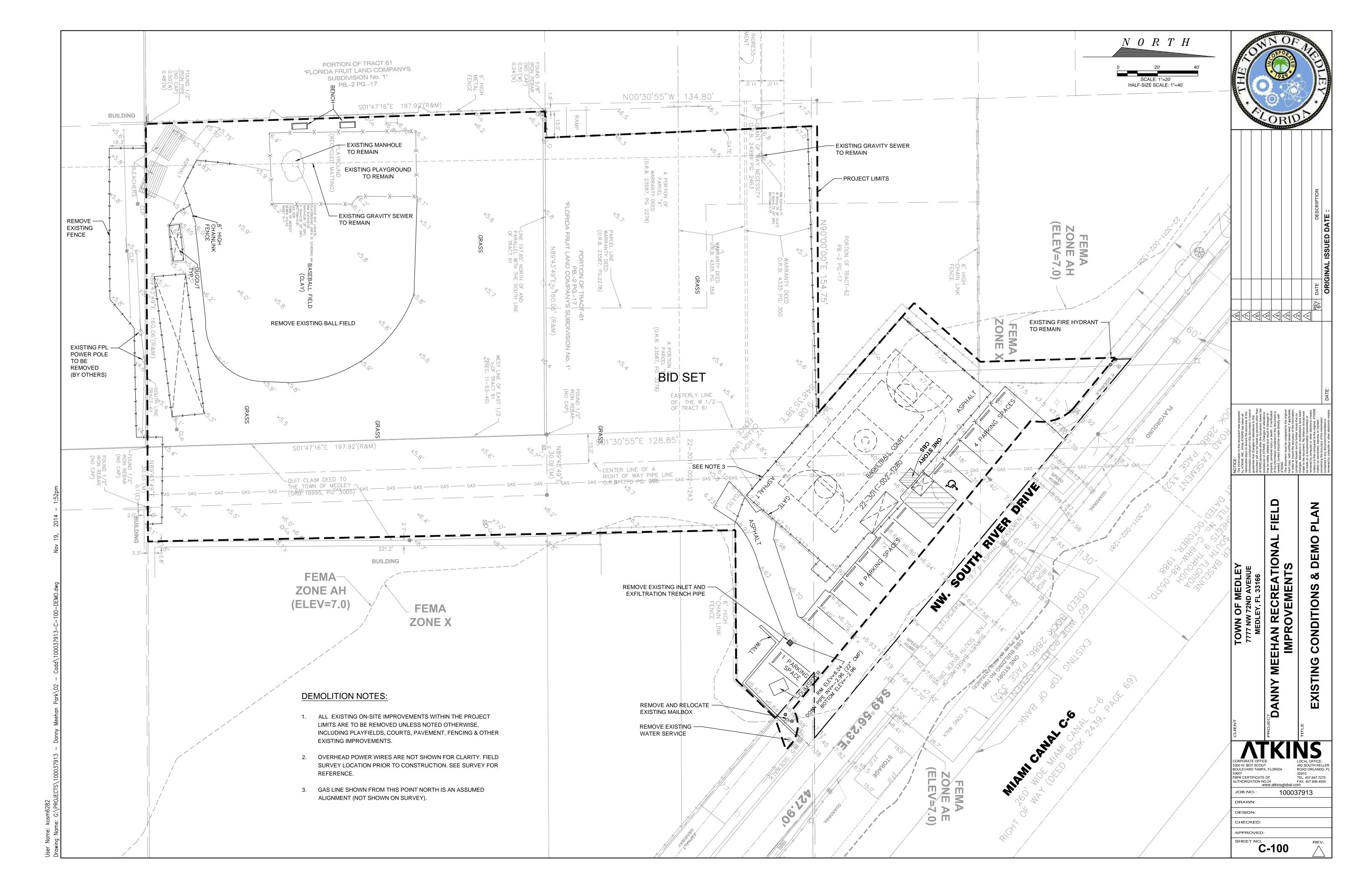
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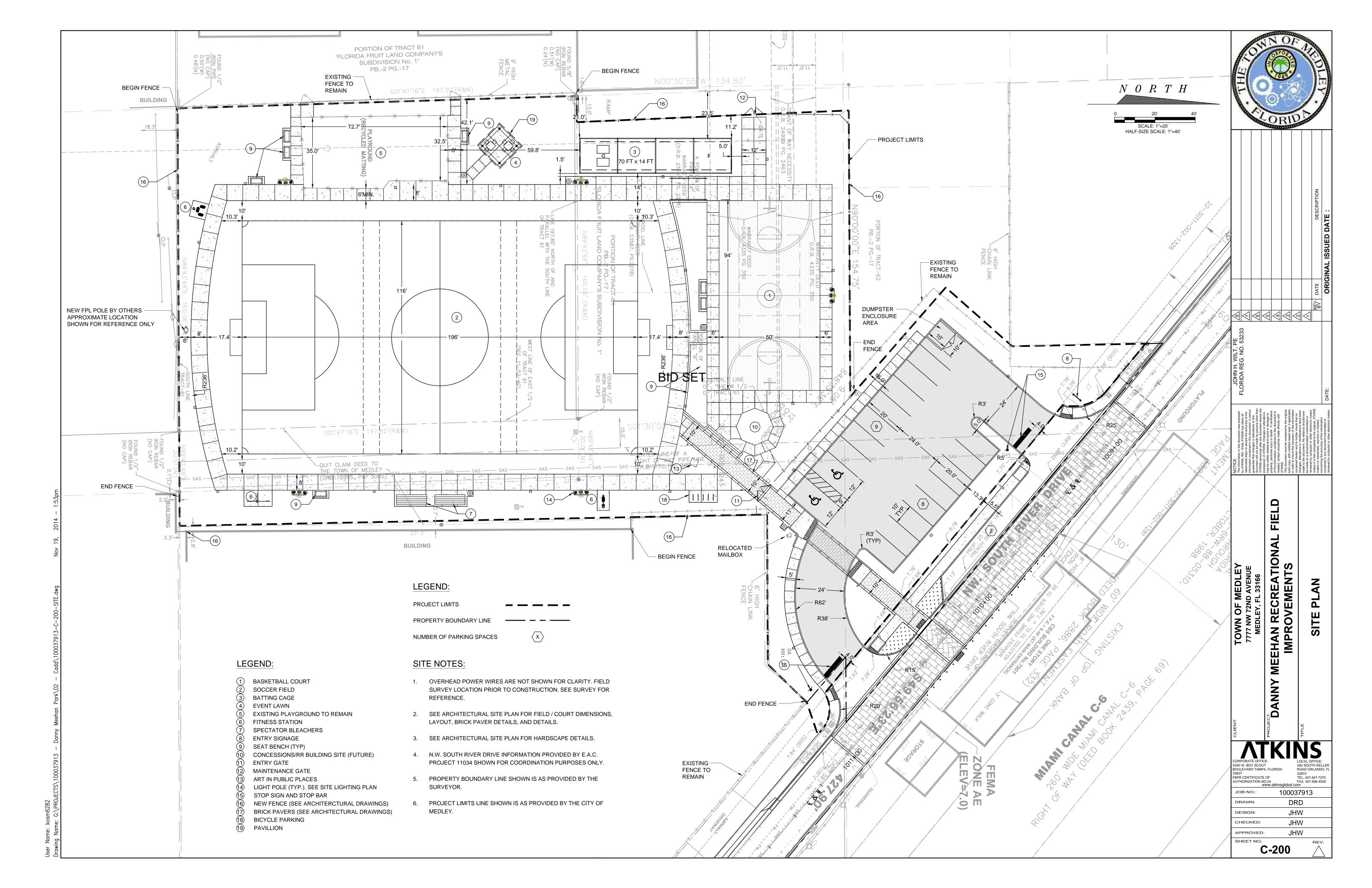
DULEVARD TAMPA, FLORIDA ROAD ORLANDO, FBPR CERTIFICATE OF FAX. 407.806.4500

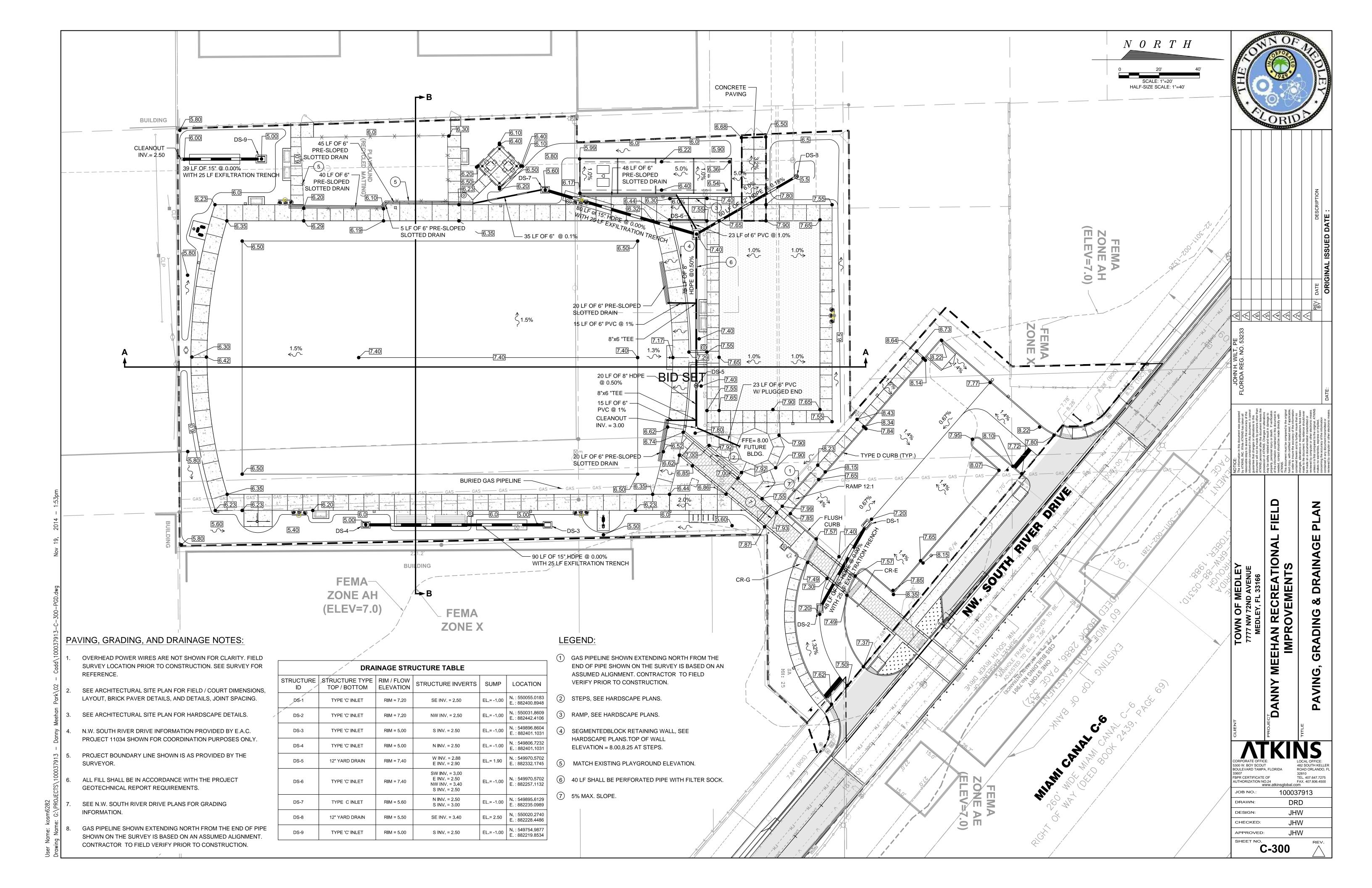
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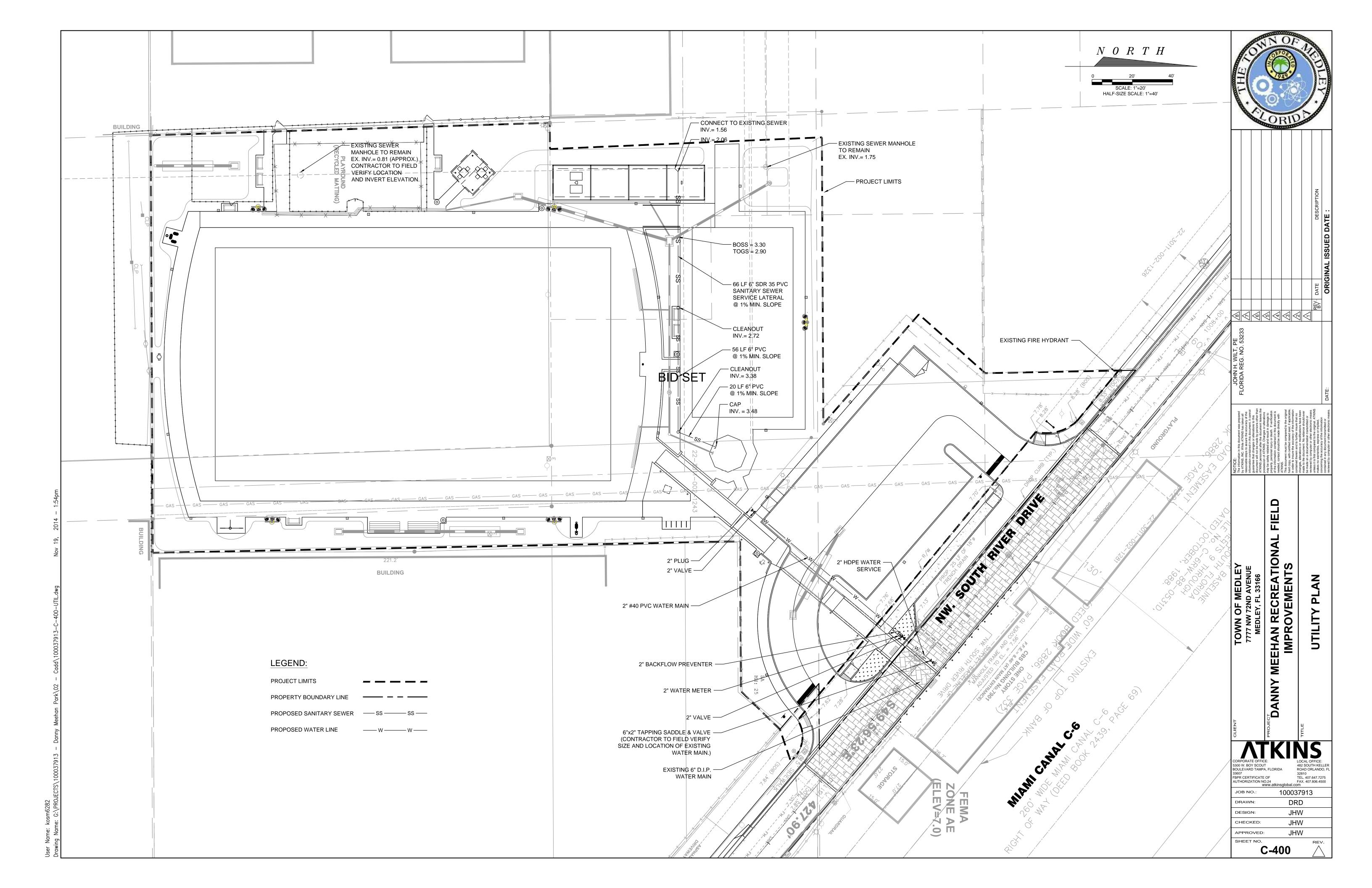
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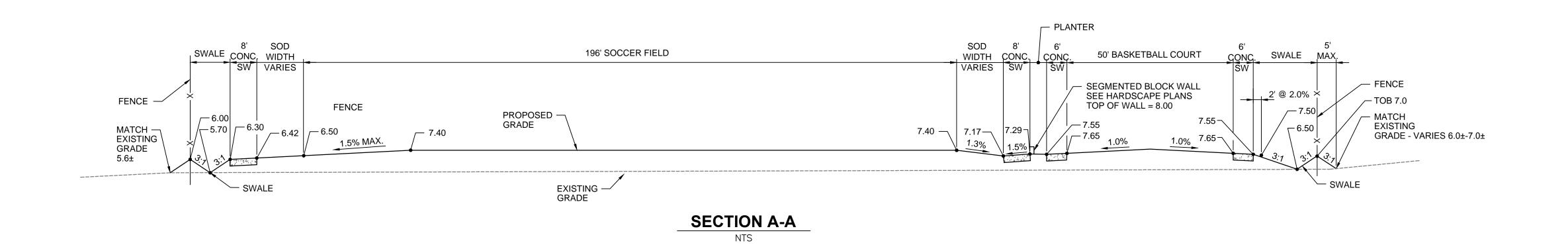
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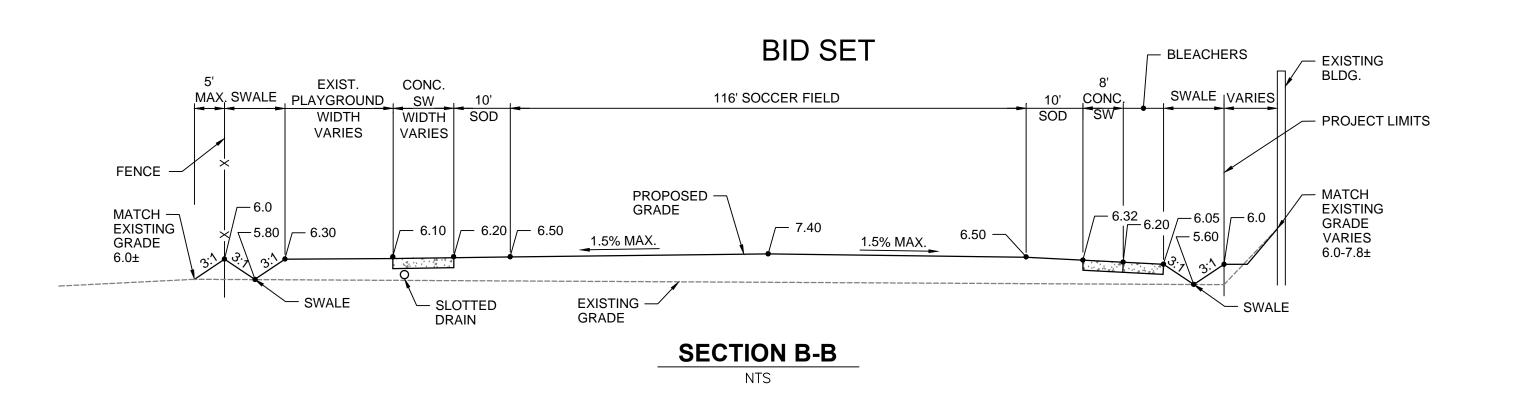












TOWN OF MEDLEY
7777 NW 72ND AVENUE
MEDLEY, FL 33166

DANNY MEEHAN RECREATIONAL FIELD
IMPROVEMENTS SECTIONS CORPORATE OFFICE:
5300 W. BOY SCOUT
BOULEVARD TAMPA, FLORIDA
33607
FEBR CERTIFICATE OF
AUTHORIZATION NO.24
www.atkinsglobal.com

JOB NO.:

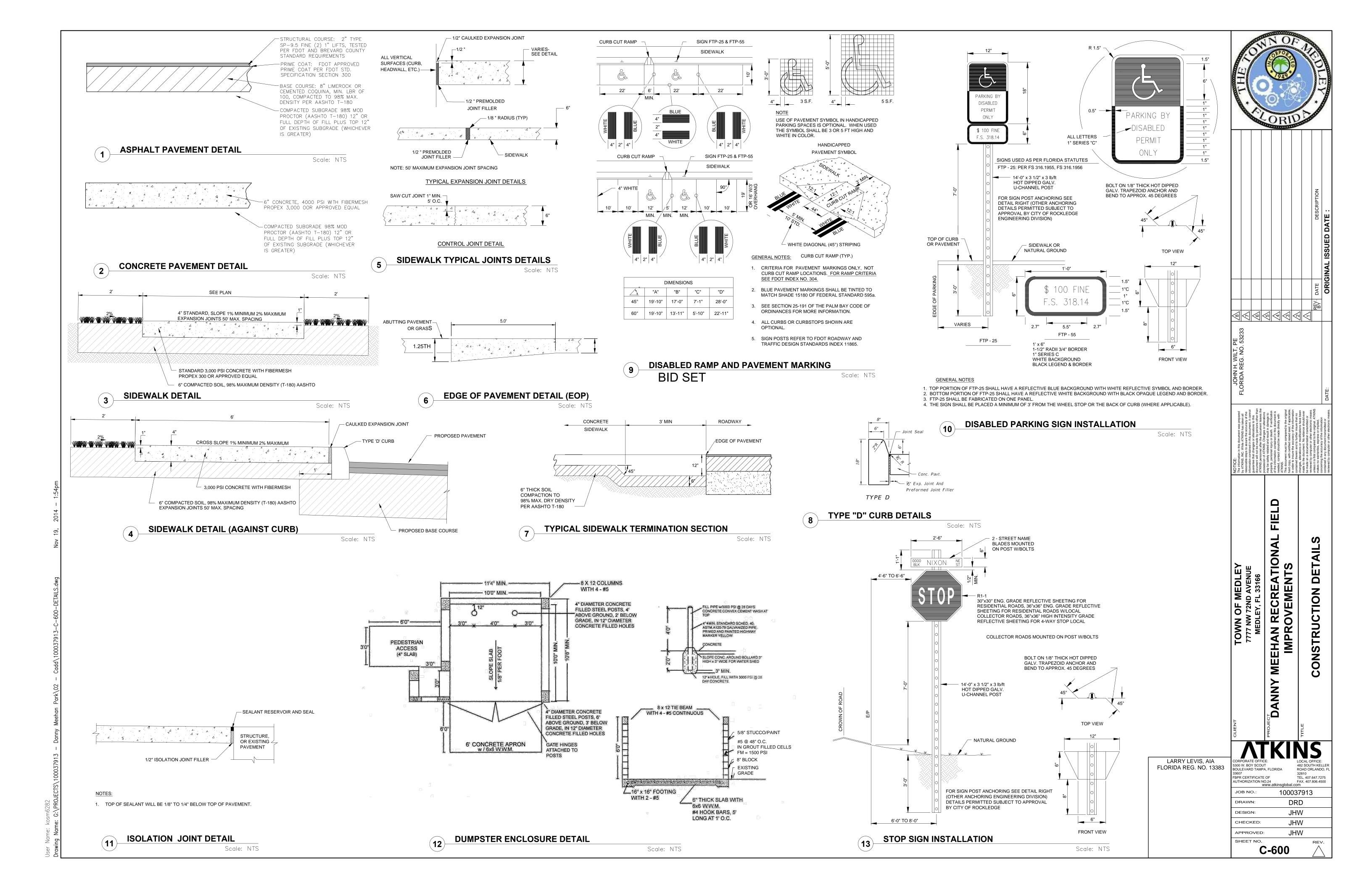
LOCAL OFFICE:
482 SOUTH KELLER
ROAD ORLANDO, FL
32810
TEL. 407.647.7275
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www.atkinsglobal.com

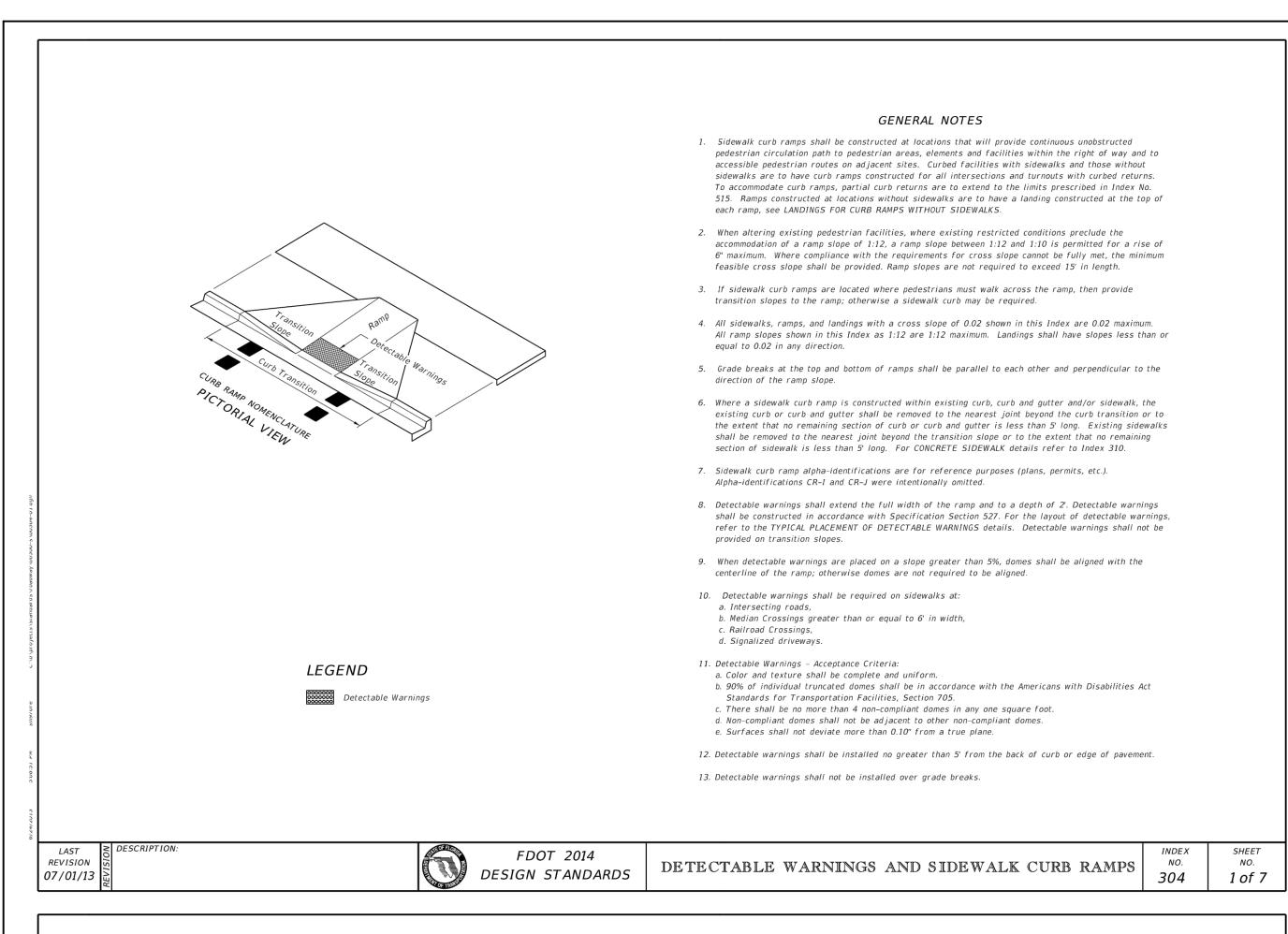
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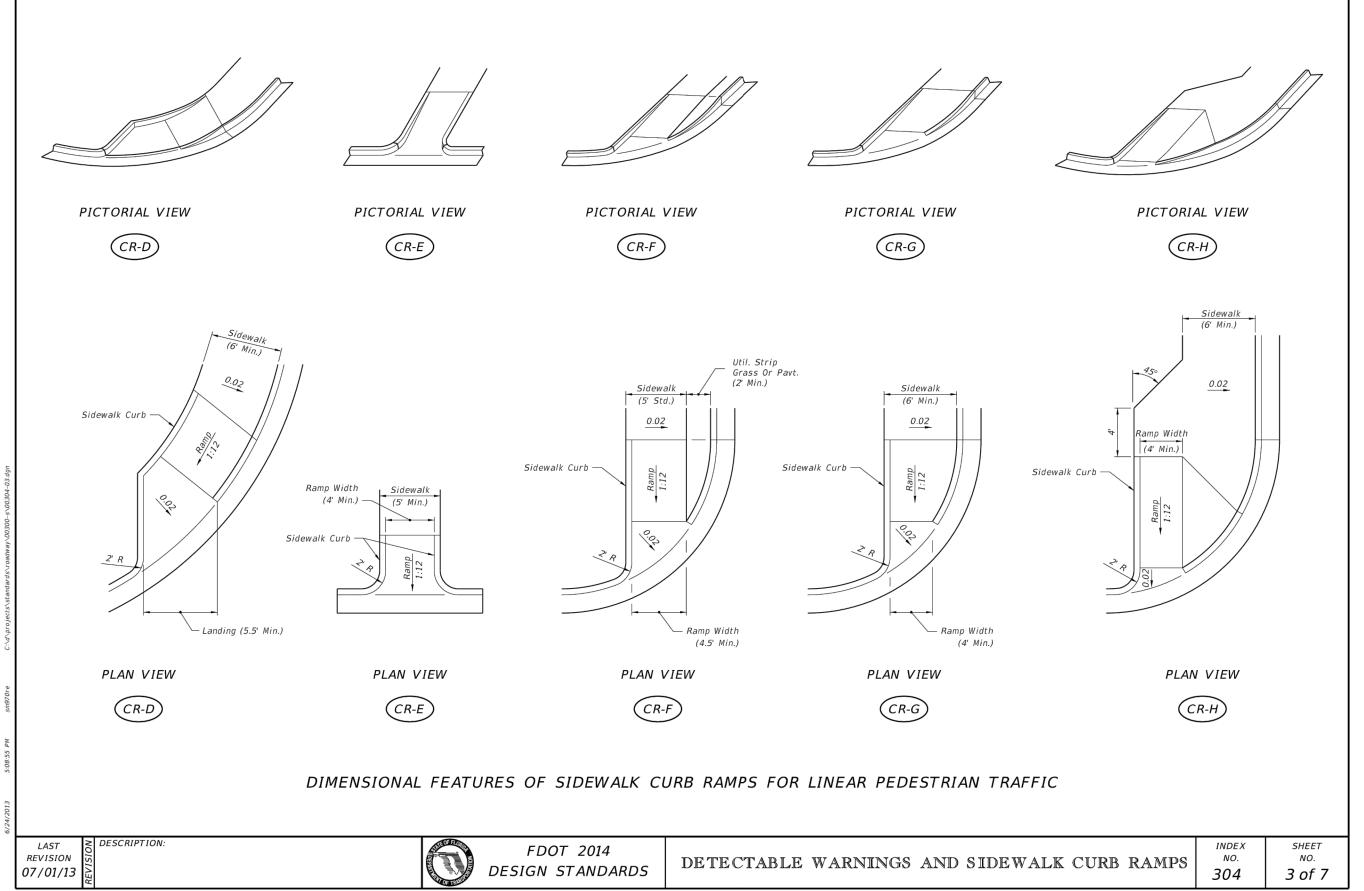
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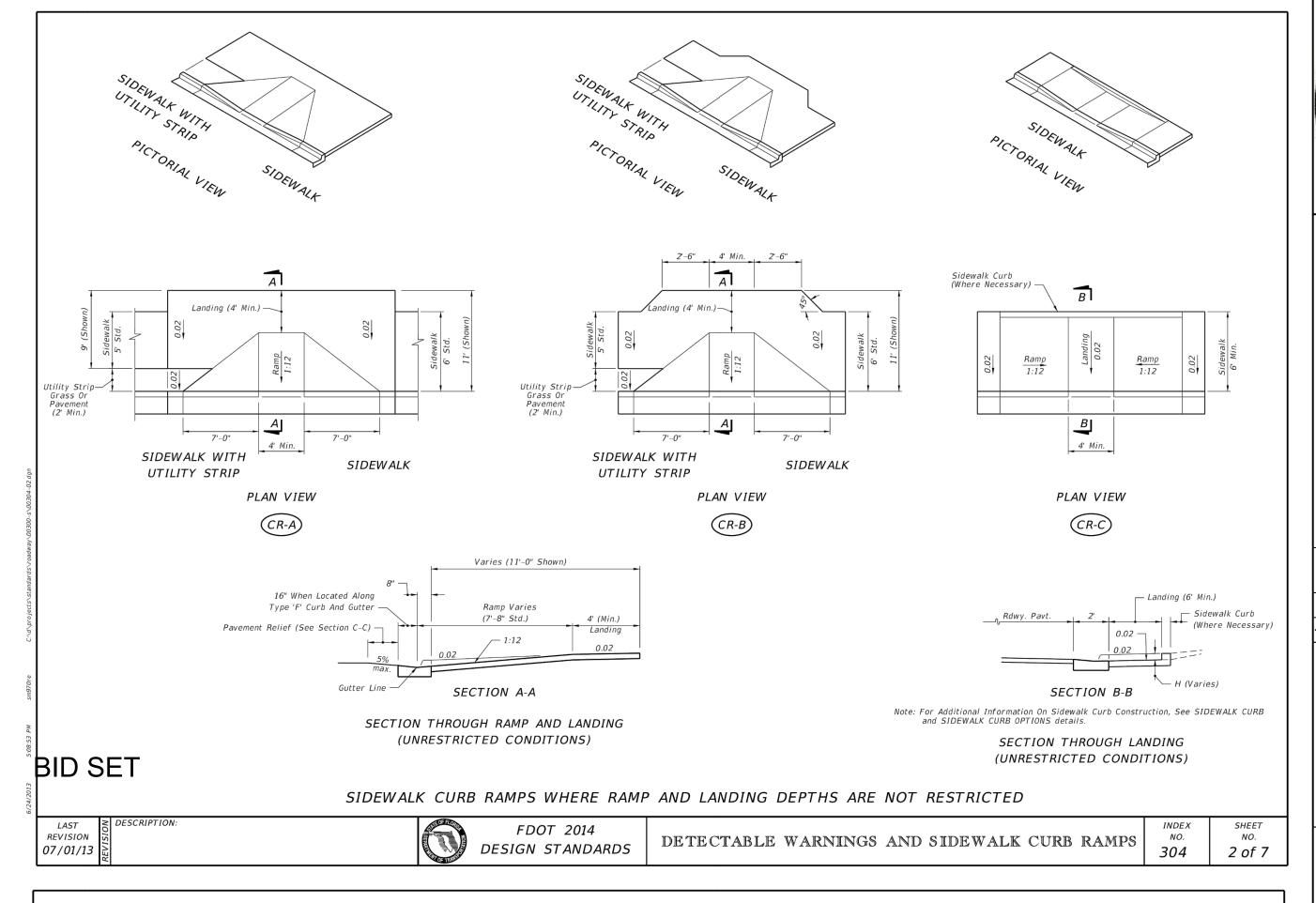
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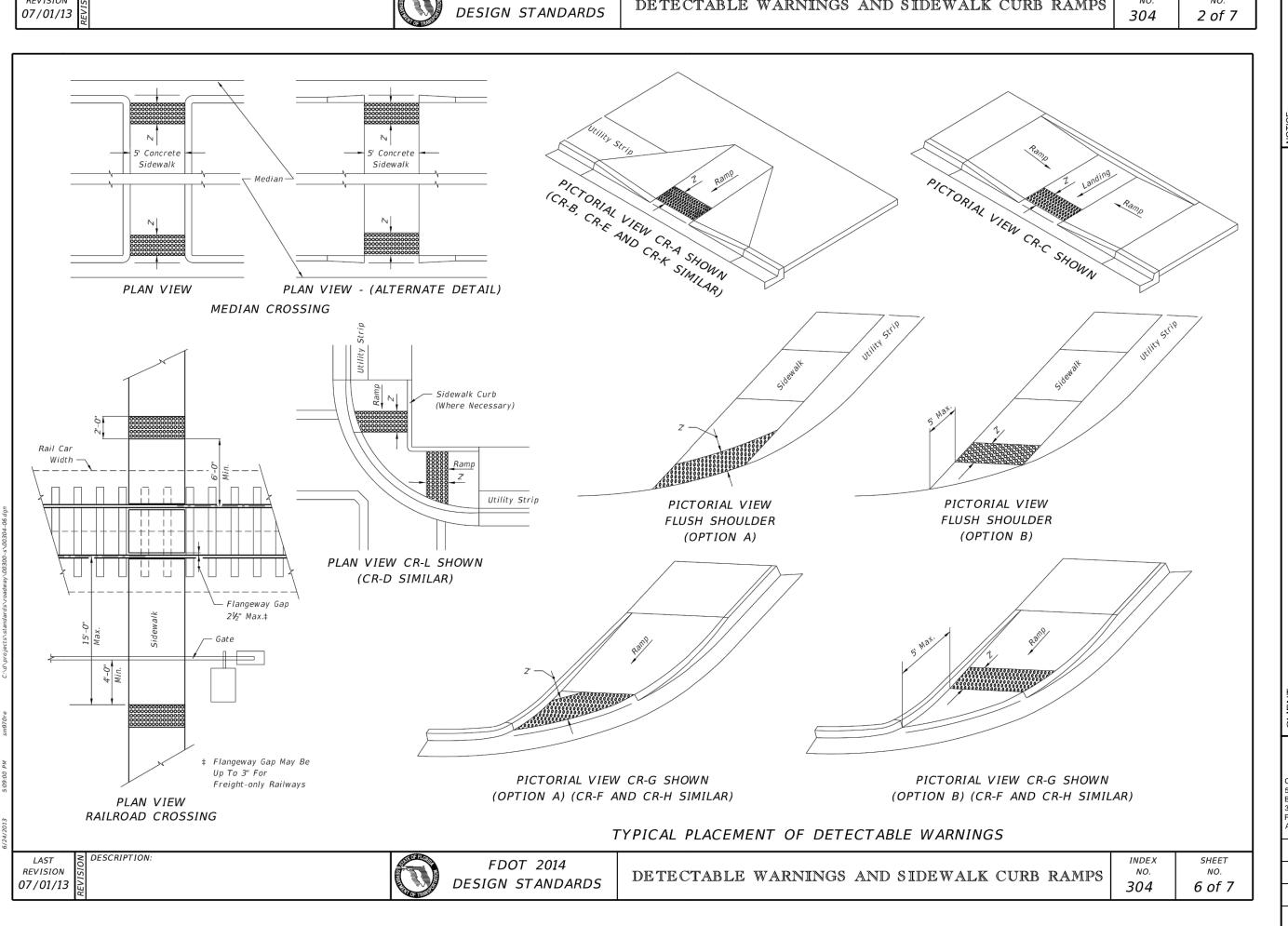
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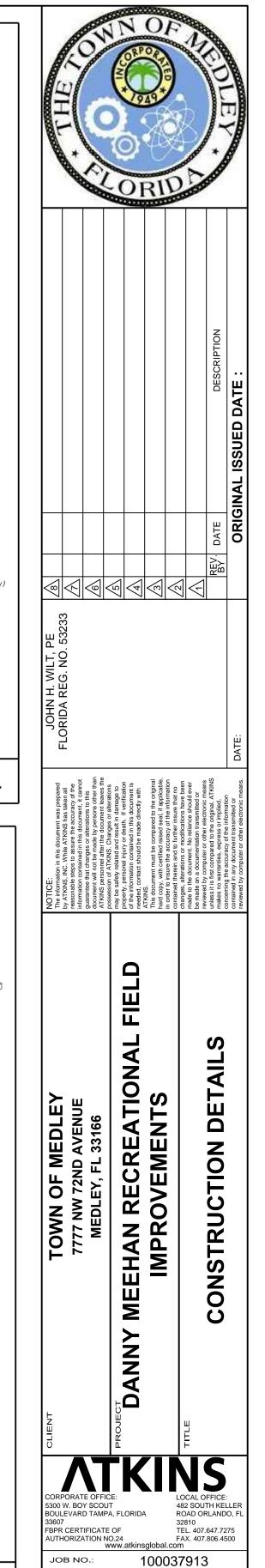












DRD

JHW

JHW

JHW

DRAWN:

CHECKED:

APPROVED:

SHEET NO.

C-601

User Name: kosm6282

LONGITUDINAL SECTION N.T.S

1. SIDES AND TOP OF TRENCH SHALL BE LINED WITH FILTER FABRIC LINER. OVERLAP LINER A MINIMUM OF 2 FT. AT THE TOP OF TRENCH.

2. SEE TRANSVERSE SECTION FOR ELEVATION INFORMATION.

ON THIS LENGTH OF PIPE.

3. AFTER THE BALLAST ROCK HAS BEEN PLACED TO THE PROPER ELEVATION, IT SHALL BE CAREFULLY WASHED DOWN WITH CLEAN WATER IN ORDER TO ALLOW FOR INITIAL SETTLEMENT THAT MAY OCCUR. IF NEEDED, ADDITIONAL BALLAST ROCK WILL BE ADDED TO RESTORE THE BALLAST ROCK TO THE PROPER ELEVATION,

SO THAT THE EXFILTRATION TRENCH BE COMPLETED IN ACCORDANCE WITH THE DETAILS.

4. DEAD ENDS TO BE PROVIDED WITH 15" BEND AND CLEAN OUT TYPE ADS-NYLOPLAST OR APPROVED EQUAL.

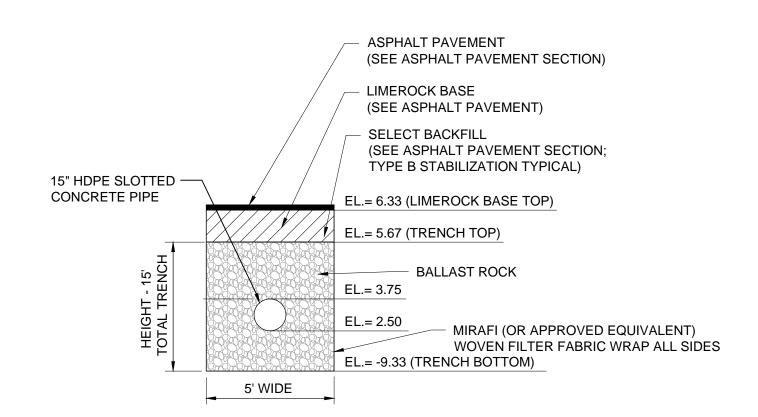
5. STRUCTURES DEPICTED SHOULD NOT LIMIT THE CONTRACTOR DURING SHOP DRAWING PROCUREMENT.

6. PROVIDE #57 AGGREGATE STONE FOR BALLAST ROCK & PEA GRAVEL PER FDOT GRADATION SCHEDULE WITH MATERIAL SUBMITTALS.

7. PLASTIC FILTER FABRIC SHALL BE MIRAFI OR APPROVED EQUAL.

# **EXFILTRATION TRENCH DETAIL**

N.T.S



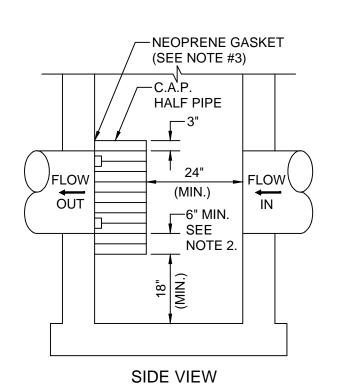
# TRANSVERSE SECTION

N.T.S

TOP WIDTH AS VARIED BY SLOPE TO MAINTAIN TRENCH CUT (PVMT SECTION NOT SHOWN FOR CLARITY) SELECT FILL - PLASTIC FILTER **FABRIC** SEE ELEV. ON PLANS 1:1 OR STEEPER -**FILTER FABRIC** BOTTOM ELEV. MAY BE USED IN AREAS WHERE TRENCH WALLS WILL NOT STAND VERTICAL OR WHERE CAVE IN (SEE NOTE 2) BELOW THE WATER TABLE IS LIKELY TO OCCUR TO BE USED AT THE ENGINEER'S DISCRETION

# ALT. TRANS. SECTION

N.T.S



DIA.

15"

18"

21"

24"

30"

36"

42"

48"

(IN)

21"

24"

30"

30"

36"

42"

48"

54"

60"

1. RECTANGULAR STRUCTURE

2. ROUND STRUCTURE

(IN)

24"

30"

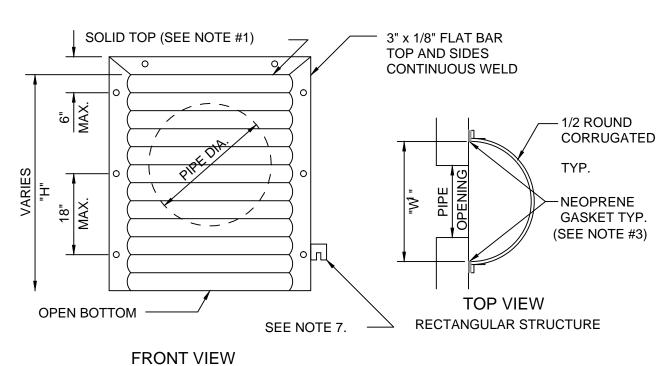
42"

48"

54"

60"

66"



# NOTES:

(IN)

VARIES

**VARIES** 

**VARIES** 

**VARIES** 

**VARIES** 

VARIES

**VARIES** 

**VARIES** 

VARIES

(GAUGE)

16

16

16

16

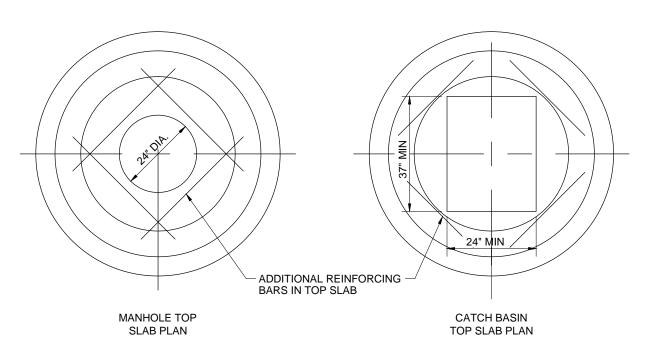
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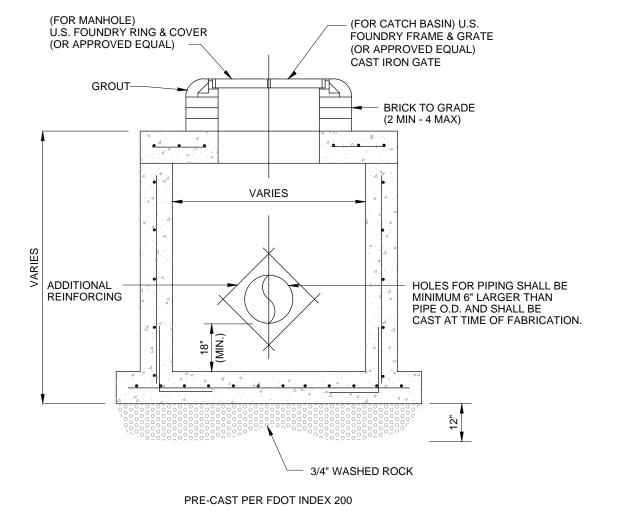
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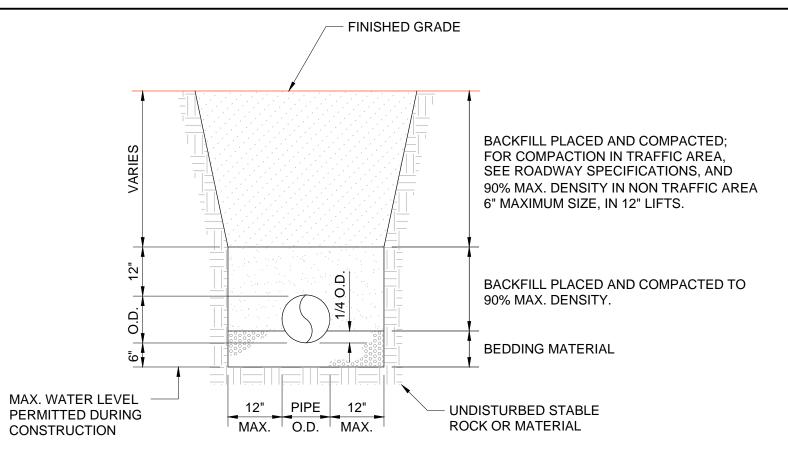
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- ALUMINUM SHEET OF SAME THICKNESS (GAUGE) AS PIPE SHALL BE WELDED TO CLOSE OPENING AT THE TOP.
- 2. THE BOTTOM ELEVATION OF THE POLLUTION RETARDANT BAFFLE MUST BE AT LEAST 2' BELOW CONTROL ELEVATION.
- NEOPRENE ADHESIVE BACKED GASKET, OR APPROVED EQUAL (1" x 2") SHALL BE INSTALLED ON THE SIDES AND TOP OF ALL BAFFLES.
- POLLUTION RETARDANT BAFFLE TO BE FASTENED IN PLACE WITH 3/8"x4" STAINLESS STEEL "RED HEADS", OR APPROVED EQUAL.
- ALL EXFILTRATION TRENCHES SHALL HAVE A POLLUTION RETARDANT BAFFLE AT EACH CONNECTION POINT TO A STRUCTURE (SEE EXFILTRATION TRENCH DETAIL).
- 6. FIBERGLASS BAFFLES ARE NOT PERMITTED.
- MOUNTING BRACKETS MAY BE ADDED TO FLAT BARS TO EASE INSTALLATION IN ROUND STRUCTURES. SPACING TO MATCH HOLES IN FLAT BARS.





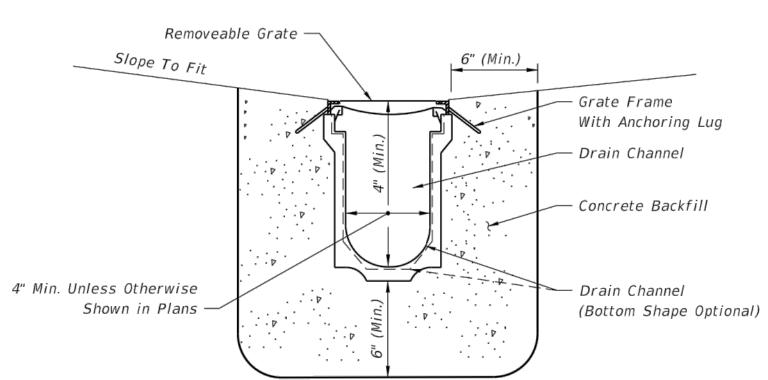
# PRE-CAST CATCH BASIN DETAIL



# NOTES:

- WHERE SOIL CONDITION CANNOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE APPROVED MEANS OF CONSTRUCTION.
- WHERE REQUIRED SHEETING AND SHORING SHALL BE IN ACCORDANCE WITH THE LOCAL GOVERNMENTAL AGENCY.
- 3. MUCK OR OTHER UNSUITABLE MATERIAL SHALL BE COMPLETELY REMOVED.
- WHEN THE PIPE IS LAID IN THE PREPARED TRENCH, TRUE TO LINE AND GRADE. THE PIPE BARREL SHALL RECEIVE CONTINUOUS UNIFORM SUPPORT. WHERE NECESSARY, COURSE SAND, PEA ROCK OR 3/4" LIMESTONE GRAVEL SHALL BE USED TO PROVIDE UNIFORM BEDDING.
- 5. JOINTS MAY BE REQUIRED TO BE WRAPPED AT THE
- BACKFILL MATERIAL SHALL BE NON-COHESIVE AND NON-PLASTIC SOIL THAT IS FREE OF ALL DEBRIS, LUMPS, WOOD BROKEN PAVING OR ANY ORGANIC OR UNSUITABLE MATERIAL. BACKFILL MATERIAL PLACED WITHIN 12" OF THE PIPE SHALL CONTAIN NO ROCKS OR STONES LARGER THAN 3-1/2" INCHES IN DIAMETER. NO ROCKS OR STONES LARGER THAN 6" IN DIAMETER WILL BE PERMITTED IN THE REMAINING BACKFILL UNLESS OTHERWISE SPECIFIED.
- 7. TRENCH BACKFILL SHALL BE COMPACTED TO NOT LESS THAN 90 PERCENT OF THE MAXIMUM DRY DENSITY DETERMINED BY AASHTO T-180. BACKFILL AND COMPACTION SHALL BE IN ACCORDANCE TO THE STANDARD ENGINEERING DESIGN REQUIRED BY THE LOCAL GOVERNMENTAL AGENCY.

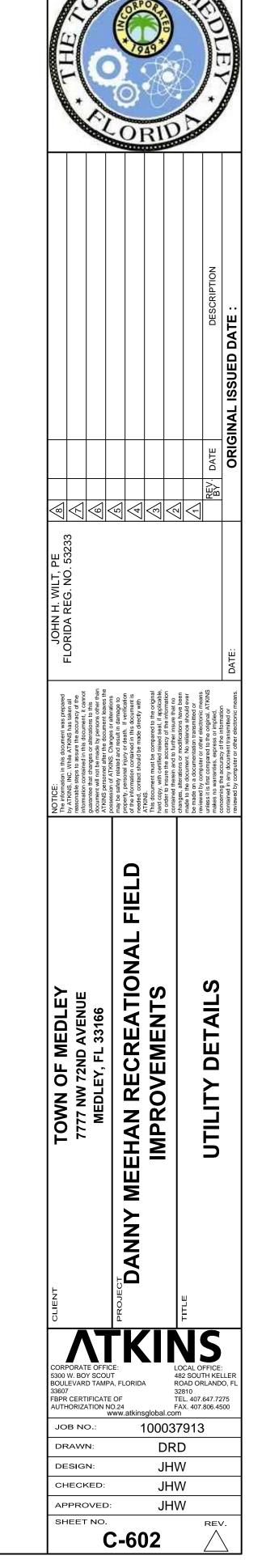
# TRENCH EXCAVATION DETAIL



# PREFORMED CHANNEL WITH REMOVABLE GRATE TYPE II

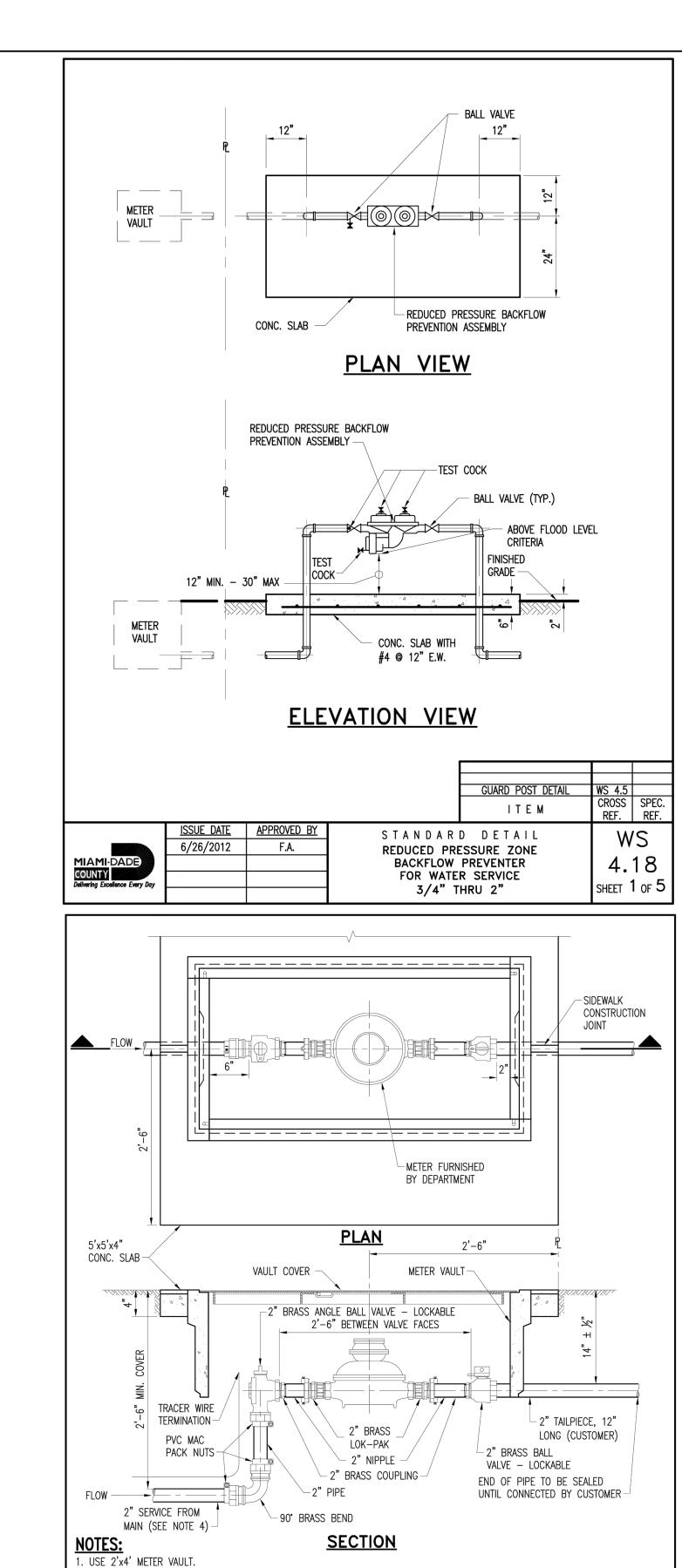
# DESIGN NOTES

- 1. Where placed adjacent to reinforced concrete barrier wall or median barrier wall, the designer shall detail in the plans the position of the drain relative to the barrier wall to avoid conflicts with the barrier wall footing. See Index No. 410.
- 2. The designer shall identify the following in the plans:
  - (a) The type of drain at each location.
  - (b) The begin and end locations of the Trench Drain.
  - (c) The location of the outlet pipe if the Trench Drain is not stubbed directly into a drainage structure.
  - (d) The design flow (Q) for the Trench Drain must be shown on the plans.
- 3. Capture efficiency for Type I Trench Drain may be computed using the equations for slotted drain in FHWA's HEC 12 & 22. Grate Type I and Type II must have at least 30% open area.
- 4. Round pipe alternate is available in 12, 18, 24 and 36 inch.
- 5. Type II Preformed Channel with integral anchoring lugs are applicable.



POLLUTION RETARDANT BAFFLE N.T.S

N.T.S



2. METER BOX TO BE IN 5'x5'x4" THICK CONCRETE SLAB WITH 6x6-W1.4xW1.4 W.W.M.

4. USE 2" BLUE COLOR HDPE FOR POTABLE WATER SERVICE. USE 2" PURPLE COLOR

5. METERS WILL NOT BE INSTALLED IF THE METER BOX IS LOCATED ON A DRIVING SURFACE

V.F.C.

6. METER BOX SHALL BE INSTALLED BETWEEN TWO SEPARATE FLAGS OF CONCRETE.

<u>ISSUE DATE</u> <u>APPROVED BY</u>

06/20/2008

INTO THE WATER METER BOX.

COUNTY

WATER & SEWER DEPARTMENT

HDPE FOR RECLAIMED WATER SERVICE.

3. A TEN GAUGE BLUE (PURPLE FOR RECLAIMED WATER) DIRECT BURY STRANDED COPPER TRACER WIRE TO BE TAPED CONTINUOUSLY

STANDARD DETAIL

TYPICAL 2" SERVICE

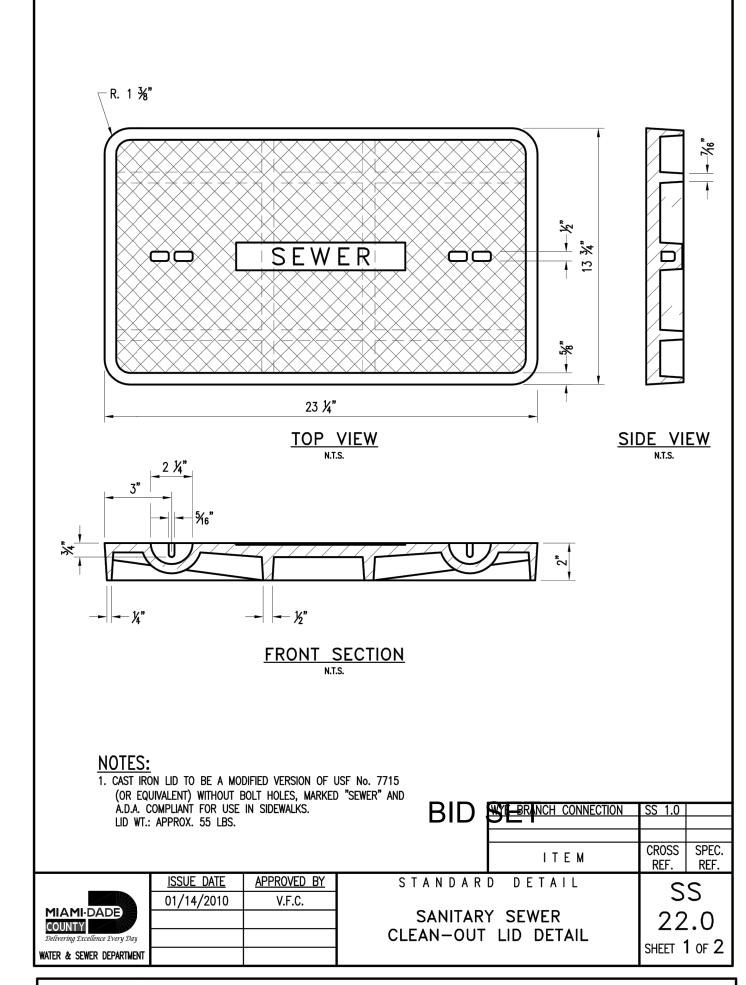
INSTALLATION WITH A 2" METER

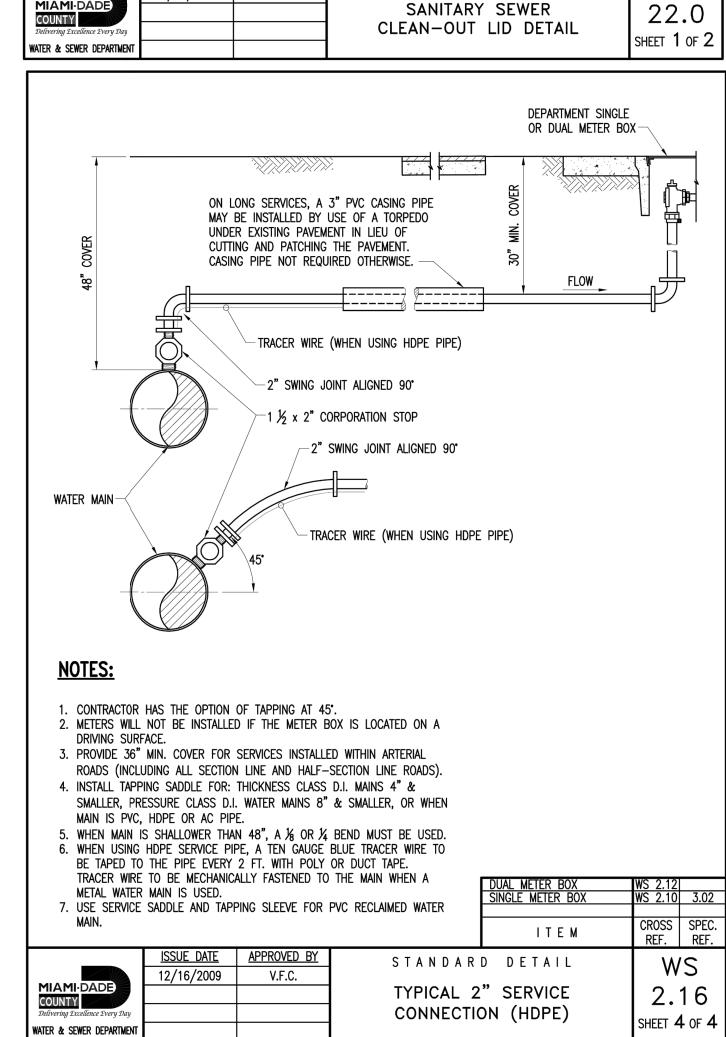
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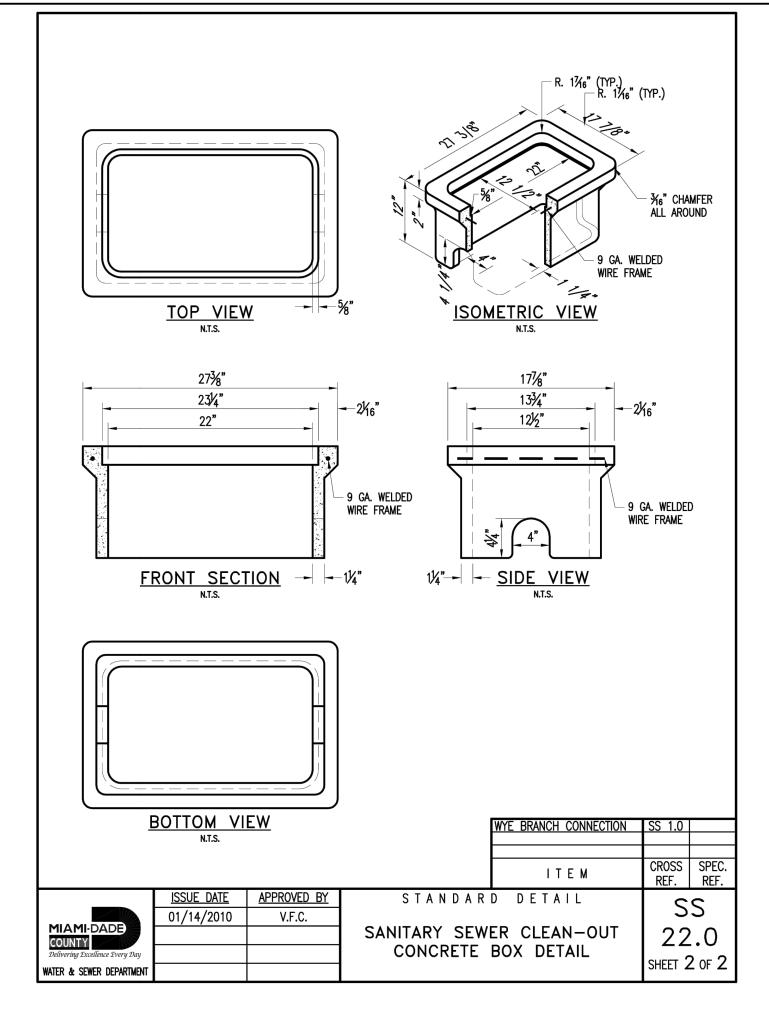
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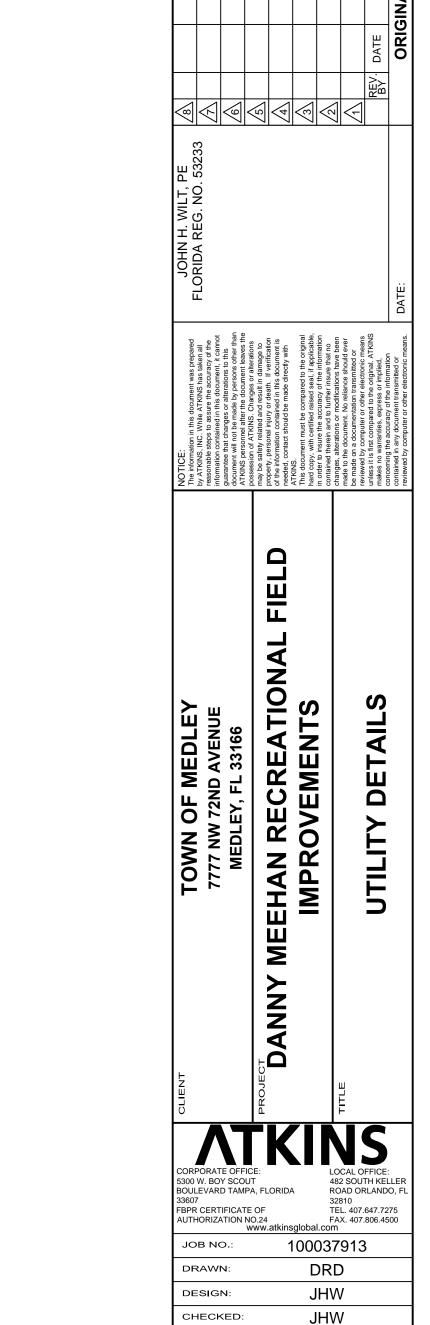
SHEET 1 OF 4

WITH POLY OR DUCT TAPE TO THE SERVICE FOR LOCATION PURPOSES. WIRE MUST BE ATTACHED TO WATER MAIN AND EXTEND







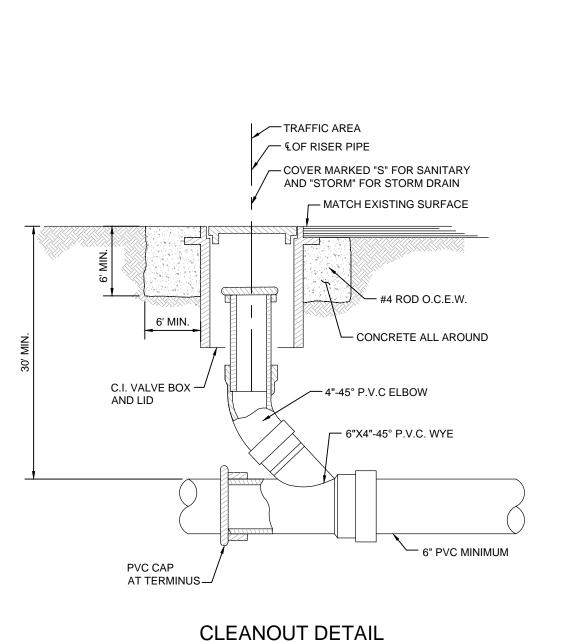


APPROVED:

SHEET NO.

JHW

C-603



FOLLOWING ADDRESS:
NPDES Stormwater Notices Center, MS# 2510 Florida Department of Environmental Protection 2600 Blair Stone Road Tallahassee, Florida 32399—2400.
5. THE CONTRACTOR MUST ALSO DEVELOP AND IMPLEMENT A STORMWATER PREVENTION PROTECTION PLAN (SWPPP) THAT COMPLIES WITH THE FDEP NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PHASE II CONSTRUCTION PERMIT. THE CONTRACTOR SHALL SUBMIT THE SWPPP PRIOR TO THE SUBMITTAL OF AN NOI. THE SWPPP CONTAINED WITHIN THESE CONSTRUCTION DOCUMENTS WAS DEVELOPED TO COMPLY WITH THE LOCAL REGULATION CRITERIA.
IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL INFORMATION PROVIDED

GENERAL

HE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION AND TURRIDITY CONTROL PLAN IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS. DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULANTS TO THE RETENTION SYSTEM PRIOR TO PLACING THE SYSTEM INTO OPERATION.

# 4. SEQUENCE OF MAJOR ACTIVITIES:

THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:

INSTALL STABILIZED CONSTRUCTION ENTRANCE INSTALL SILT FENCES AND SYNTHETIC BALES AS REQUIRED

HEREIN MEETS OR EXCEEDS NPDES REQUIREMENTS.

CLEAR AND GRUB FOR DIVERSION SWALES/DIKES AND SEDIMENT BASIN CONSTRUCT SEDIMENTATION BASIN

CONTINUE CLEARING AND GRUBBING STOCK PILE TOP SOIL IF REQUIRED

REQUIRED

PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED

STABILIZE DENUDED AREAS AND STOCKPILES AS SOON AS PRACTICABLE COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD AND PLANTING . REMOVE ACCUMULATED SEDIMENT FROM BASINS

WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED,

REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND SYNTHETIC BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS, AFTER THE ENTIRE SITE IS STABILIZED. THE ACCUMULATED SEDIMENT WILL BE REMOVED IN ACCORDANCE WITH THE EROSION AND TURBIDITY CONTROL PLAN.

6. CONTROLS

IT IS THE CONTRACTORS RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE PLAN SHEETS. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS SHOWN ON THE PLAN SHEETS AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE CONTRACTOR AS REQUIRED BY THE EROSION AND TURBIDITY CONTROL PLAN AND AS REQUIRED TO MEET THE EROSION AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.

A. EROSION AND SEDIMENT CONTROLS STABILIZATION PRACTICES

1. SYNTHETIC BALE BARRIER: SYNTHETIC BALE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:

A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT. B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES. C. WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS.

D. EVERY EFFORT SHOULD BE MADE TO LIMIT THE USE OF SYNTHETIC BALE BARRIERS CONSTRUCTED IN LIVE STREAMS OR IN SWALES WHERE THERE IS THE POSSIBILITY OF A WASHOUT, IF NECESSARY, MEASURES SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO INSURE AGAINST

REFER TO SYNTHETIC BALE BARRIER DETAIL FOR PROPER LOCATION, MATERIAL & USAGE.

2. FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS: A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT. B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES REFER TO STORMWATER POLLUTION PREVENTION DETAILS FOR PROPER CONSTRUCTION OF THE FILTER FABRIC BARRIER

3. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE.

4. LEVEL SPREADER: A LEVEL SPREADER MAY BE USED WHERE SEDIMENT-FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED AWAY FROM THE GRADED AREAS ONTO UNDISTURBED STABILIZED AREAS. THIS PRACTICE APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL LIP IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE.

STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORMWATER COLLECTION

6. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 10 ACRES. THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREAS WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.

7. INLET PROTECTION: INLETS AND CATCH BASINS WHICH DISCHARGE DIRECTLY OFF-SITE SHALL BE PROTECTED FROM SEDIMENT-LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.

8. TEMPORARY SEEDING: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 30 DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING.

9. TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 8 ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH.

10. TEMPORARY GRASSING: THE SEEDED OR SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED OR HYDROMULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. TEMPORARY GRASSING SHALL BE THE SAME MIX & AMOUNT REQUIRED FOR PERMANENT GRASSING IN THE CONTRACT SPECIFICATIONS.

11. TEMPORARY REGRASSING: IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER AT NO ADDITIONAL COST TO THE OWNER.

12. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.

13. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.

14. PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL, AS A MINIMUM, BE SEEDED. THE SEEDING MIX MUST PROVIDE BOTH LONG-TERM VEGETATION AND RAPID GROWTH SEASONAL VEGETATION. SLOPES STEEPER THAN 4:1 SHALL BE SEEDED AND MULCHED OR SODDED.

15. SOD SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITY STANDARDS ARE MAINTAINED.

B. STRUCTURAL PRACTICES

1. TEMPORARY DIVERSION DIKE: TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT-TRAPPING FACILITY.

STORM WATER POLLUTION PREVENTION PLAN - CONTRACTORS REQUIREMENTS

2. TEMPORARY SEDIMENT TRAP: A SEDIMENT TRAP SHALL BE INSTALLED IN A DRAINAGEWAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA. THE FOLLOWING SEDIMENT TRAPS MAY BE CONSTRUCTED EITHER INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION DIKE:

A. BLOCK & GRAVEL SEDIMENT FILTER - THIS PROTECTION IS APPLICABLE WHERE HEAVY FLOWS AND/OR WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE.

B. GRAVEL SEDIMENT TRAP - THIS PROTECTION IS APPLICABLE WHERE HFAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

C. DROP INLET SEDIMENT TRAP - THIS PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (S < 5%) AND WHERE SHEET OR OVERLAND FLOWS (Q < 0.5 CFS) ARE TYPICAL. THIS METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH AS IN STREET OR HIGHWAY MEDIANS.

3. OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE FLOW COULD CAUSE EROSION AND SEDIMENT PROBLEM TO THE RECEIVING WATER BODY. SILT FENCES AND SYNTHETIC BALES ARE TO BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE DISCHARGING STRUCTURE AS SHOWN ON THE OUTLET PROTECTION DETAIL.

C. SEDIMENT BASINS

SEDIMENT BASINS WILL BE CONSTRUCTED AT THE COMMON DRAINAGE LOCATIONS THAT SERVE AN AREA WITH 10 OR MORE DISTURBED ACRES AT ONE TIME, THE PROPOSED STORM WATER PONDS (OR TEMPORARY PONDS) WILL BE CONSTRUCTED FOR USE AS SEDIMÈNT BASINS. THESE SÉDIMENT BASINS MUST PROVIDE A MINIMUM OF 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED

UNTIL FINAL STABILIZATION OF THE SITE.

THE 3,600 CUBIC FEET OF STORAGE AREA PER ACRE DRAINED DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS FROM ONSITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. ANY TEMPORARY SEDIMENT BASINS CONSTRUCTED MUST BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL FILL. ALL SEDIMENT COLLECTED IN PERMANENT OR TEMPORARY SEDIMENT TRAPS MUST BE REMOVED UPON FINAL STABILIZATION.

D. WETLAND PROTECTION

EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS IS POTENTIAL FOR DOWNSTREAM WATER SHEED FOR TYPINAL CONSTRUCTION. QUALITY DEGRADATION. SEE DETAIL S

CONTROLS FOR OTHER POTENTIAL POLLUTANTS

WASTE DISPOSAL

1. WASTE MATERIALS: ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

2. OFFSITE VEHICLE TRACKING: A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEPT DAILY TO REMOVE ANY EXCESS MUD. DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE

3. SANITARY WASTE: ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DEPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR

4. HAZARDOUS WASTE: ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

3.	INVENTORY	FOR	POLLUTION	PREVENTION	PLAN	

THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION:

Concrete	Fertilizers	Wood
Asphalt	Petroleum Based Products	Masonry Block
Tar	Cleaning Solvents	Roofing Mater
Detergents	Paints	Metal Studs

9. SPILL PREVENTION

MATERIAL MANAGEMENT PRACTICES

CONTRACTOR SHALL CHECK APPROPRIATE BOXES.

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

GOOD HOUSEKEEPING

ENCLOSURE.

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT. \* AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.

\* ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN

THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER

PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL. \* SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER. WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.

\* MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED. \* THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ONSITE RECEIVE PROPER USE AND DISPOSAL.

HAZARDOUS PRODUCTS

THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.

\* PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.

\* ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.

\* IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED. PRODUCT SPECIFIC PRACTICES

THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:

PETROLEUM PRODUCTS ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR

PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FFRTII I7FRS FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID

ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND

MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.

MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (i.e. KITTY LITTER OR EQUAL), SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY

ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.

THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE

THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.

THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RÉCEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE TED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICI

10. DEWATERING AND TEMPORARY IMPOUNDMENT NOTES

ALL SILT FENCES SHALL BE IN PLACE PRIOR TO DEWATERING ACTIVITIES.
A TEMPORARY IMPOUNDMENT AREA SHALL BE CONSTRUCTED PER THE
TEMPORARY IMPOUNDMENT BASIN DETAIL. THE IMPOUNDMENT AREA SHALL BE
CONSTRUCTED PRIOR TO DEWATERING ACTIVITIES.

RECHARGE TRENCHES WILL BE MAINTAINED FULL OF WATER FOR DURATION OF THE DEWATERING ACTIVITIES.

DISCHARGE SHALL MEET STATE WATER QUALITY STANDARDS. CONTRACTOR SHALL USE ADDITIONAL MEASURES NECESSARY TO ENSURE WATER QUALITY STANDARDS ARE MET, SPECIFICALLY TURBIDITY.

DEWATERING SHALL BE DONE IN ONE PHASE AND SHALL CEASE DURING HEAVY 6. STORM WATER RUNOFF SHALL BE PREVENTED FROM ENTERING IMPOUNDMENT AREA BY BERMING AROUND THESE AREAS WITH A BERM MINIMUM OF 12" ABOVE EXISTING GRADE AND GRADING DRAINAGE AWAY FROM DEWATERING ACTIVITY

AREAS.
THE SIZE OF THE TEMPORARY IMPOUNDMENT BASIN IS BASED ON ESTIMATED DEWATERING RATES AND VOLUMES REQUIRED TO CONSTRUCT THE PROJECT STORMWATER MANAGEMENT SYSTEM. THE CONTRACTOR SHALL ADJUST THE SIZE OF THE TEMPORARY IMPOUNDMENT BASIN AS REQUIRED BASED ON THE MEANS AND METHODS OF CONSTRUCTION AND ACTUAL FIELD CONDITIONS; INCLUDING DEWATERING PUMP RATES AND RATES OF INFILTRATION ENCOUNTERED.

10. TURBIDITY MONITORING SAMPLE PLAN

MONITORING REQUIRED:

DESCRIPTION: TURBIDITY EXPRESSES IN NEPHELO—METRIC TURBIDITY UNITS (NTU)

LOCATION: BACKGROUND — SAMPLES SHALL BE TAKEN 200 FT UPSTREAM OF ANY

CONSTRUCTION ACTIVITY WITHIN SURFACE WATER OF THE STATE COMPLIANCE.

SAMPLES SHALL BE TAKEN 200 FEET DOWNSTREAM.

FREQUENCY: PERIODICALLY AS DETERMINED BY CONTRACTOR TO ENSURE COMPLIANCE

WITH FEDERAL AND STATE WATER QUALITY STANDARDS.

DURATION: MONITORING SHALL BEGIN ON THE FIRST DAY OF CONSTRUCTION FOR

ALL ACTIVITIES RELATED TO THE PROPOSED ACTIVITIES THAT ARE CLASSIFIED AS

SURFACE WATERS OF THE STATE. MONITORING SHALL CEASE WHEN ALL

CONSTRUCTION ACTIVITIES RELATED TO THE PROPOSED ACTIVITIES ARE

COMPLETED. THE MONITORING DATA MUST DEMONSTRATE THAT TURBIDITY 200

FT DOWNSTREAM OF ALL PROPOSED ACTIVITIES IS LESS THAN OR EQUAL TO 29

NTU'S ABOVE NATURAL BACKGROUND TURBIDITY 200 FT UPSTREAM OF EACH

PROPOSED ACTIVITY FOR A PERIOD OF 7 CONSECUTIVE DAYS AFTER COMPLETION

OF CONSTRUCTION.

ALL MONITORING DATA SHALL BE SUBMITTED WITHIN ONE WEEK OF ANALYSIS WITH DOCUMENTS CONTAINING THE FOLLOWING INFORMATION: (1) PERMIT AND DOCUMENTS CONTAINING THE FOLLOWING INFORMATION: (1) PERMIT AND APPLICATION NUMBER; (2) DATES OF SAMPLING AND ANALYSIS; (3) A STATEMENT DESCRIBING THE METHODS USED IN COLLECTION. HANDLING, STORAGE AND ANALYSIS OF THE SAMPLES; (4) A MAP INDICATING THE SAMPLING LOCATIONS AND (5) A STATEMENT BY THE INDIVIDUAL RESPONSIBLE FOR IMPLEMENTATION OF THE SAMPLING PROGRAM CONCERNING THE AUTHENTICITY, PRECISION, LIMITS OF DETECTION AND ACCURACY OF THE DATA. MONITORING REPORTS SHALL ALSO INCLUDE THE FOLLOWING INFORMATION FOR EACH SAMPLE THAT IS TAKEN: TIME AND DAY SAMPLES TAKEN; DEPTH OF WATER BODY;

ANTECEDENT WEATHER CONDITIONS; E) WIND DIRECTION AND VELOCITY

IF MONITORING REVEALS VIOLATIONS OF THE STATE WATER QUALITY STANDARD FOR TURBIDITY, CONSTRUCTION SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL CORRECTIVE MEASURES HAVE BEEN TAKEN AND TURBIDITY HAS RETURNED TO ACCEPTABLE LEVELS. ANY SUCH OCCURRENCE SHALL ALSO BE IMMEDIATELY (WITHIN A 24 HOUR PERIOD) REPORTED TO THE LOCAL WATER MANAGEMENT DISTRICT.

12. MAINTENANCE/INSPECTION PROCEDURES

EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES

THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS. \* ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT, TH

PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF ANY STORM EVENT OF 0.50 INCHES OR GREATER. \* ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING

ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS

OF REPORT. \* BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-HALF THE HEIGHT OF THE FENCE.

\* SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND. \* THE SEDIMENT BASINS WILL BE INSPECTED FOR THE DEPTH OF SEDIMENT,

AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCEN OF THE DESIGN CAPACITY OR AT THE END OF THE JOB, WHICHEVER COMES

\* DIVERSION DIKES/SWALES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAÍRED.

\* TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.

\* A MAINTFNANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION A COPY OF THE REPORT FORM TO BE COMPLETED BY THE CONTRACTOR'S INSPECTOR. THE REPORTS WILL BE KEPT AT THE LOCATION INDICATED ON THE NOTICE OF INTENT (NOI) FDEP FORM 62-621.300(4)(B) DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER. ENGINEER OR ANY FEDERAL, STATE OR LOCAL AGENCY APPROVING SEDIMENT AND AND EROSION PLANS, OR STORMWATER MANAGEMENT PLANS. THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE

IS SUBMITTED THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE. \* THE SITE SUPERINTENDENT WILL SELECT UP TO THREE INDIVIDUALS WHO WIL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES,

DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION

AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT. \* PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.

13. CERTIFICATION STATEMENT

CERTIFICATION STATEMENT BEFORE CONDUCTING ANY ACTIVITIES AT THE SITE. I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH, THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERAL PERMIT FOR STORM WATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORM WATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER.

ALL CONTRACTORS AND SUBCONTRACTORS SHALL SIGN A COPY OF THE FOLLOWING

RESPONSIBLE FOR/DUTIES	GENERAL CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR	
BUSINESS NAME, ADDRESS AND TELEPHONE NUMBER OF CONTRACTOR & ALL SUBS						
SIGNATURE AND TITLE						

4.	POLLUTION	PREVENTION	PLAN	CERTIFICATIO

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

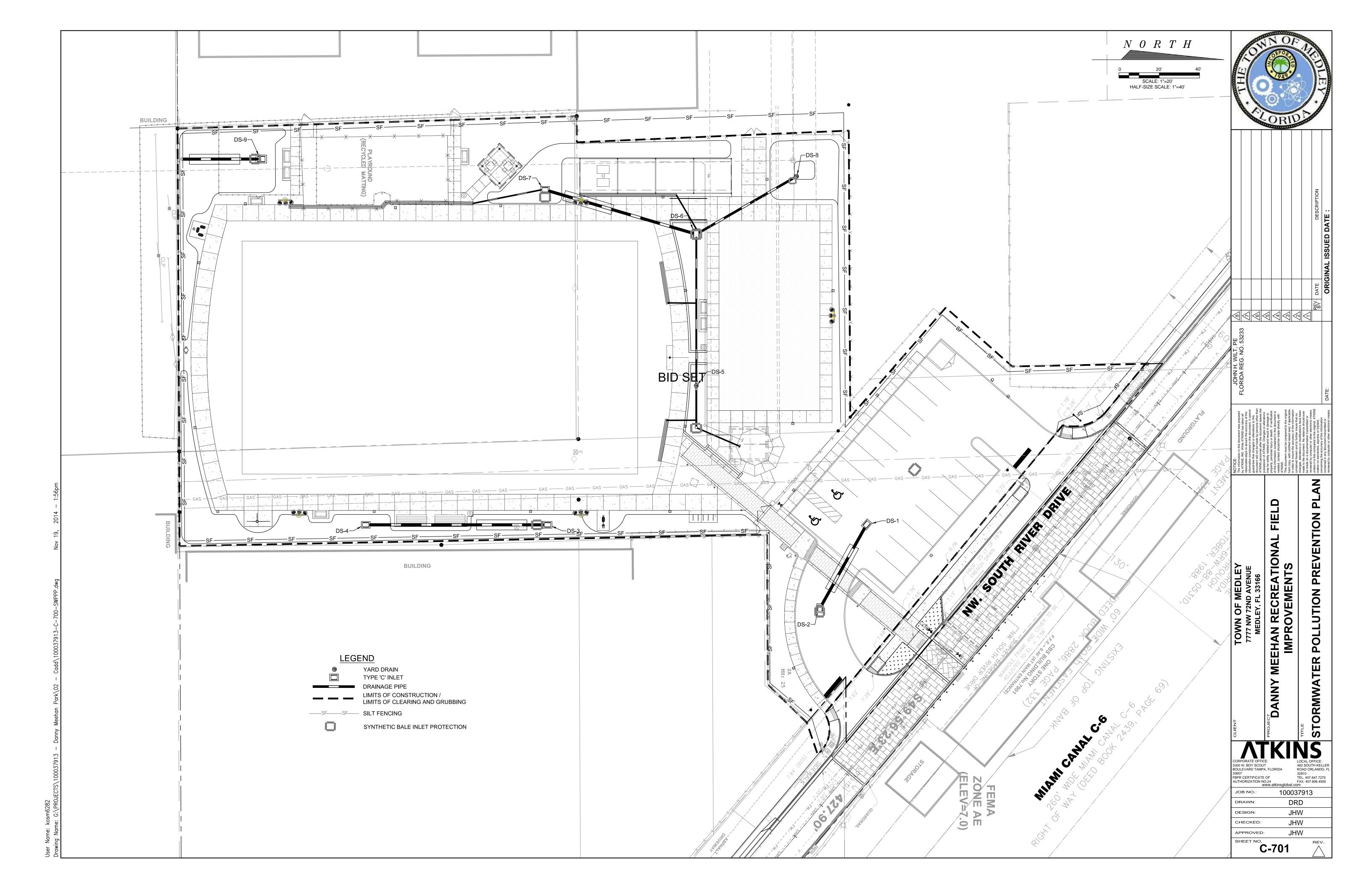
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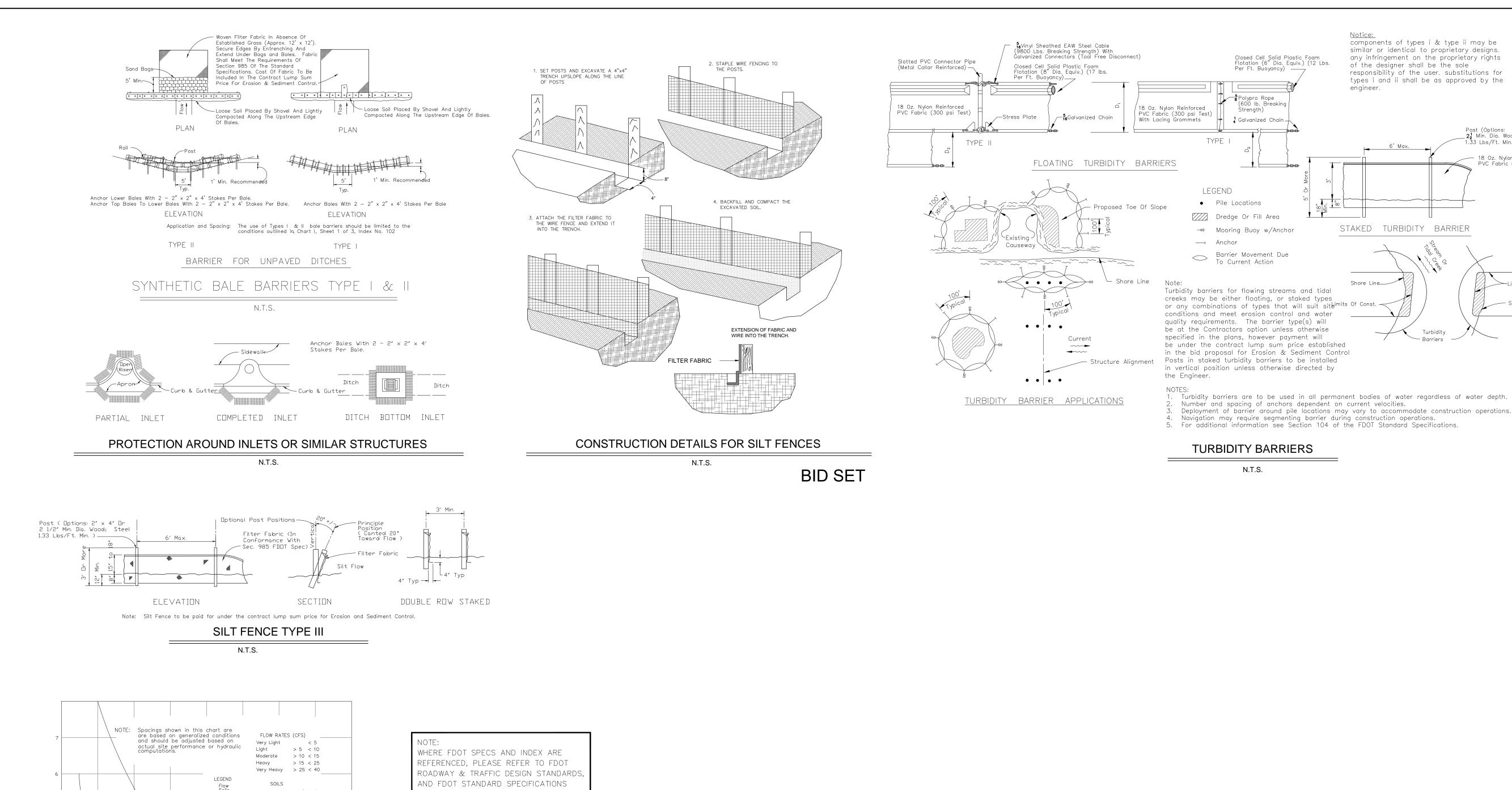
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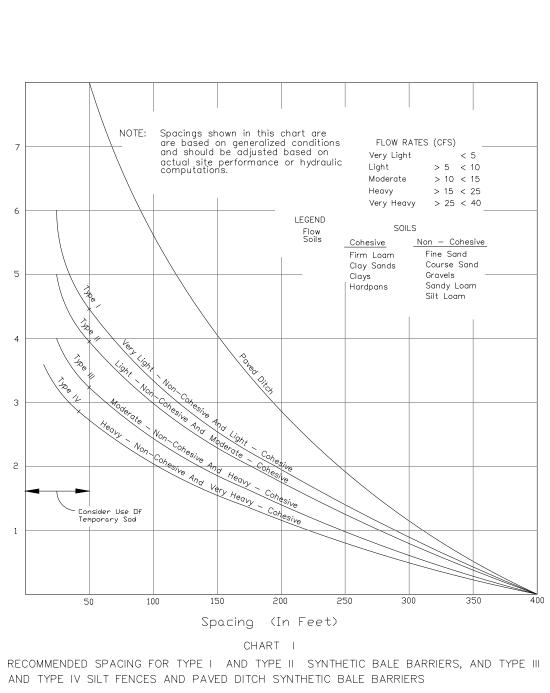
BOULEVARD TAMPA, FLORIDA ROAD ORLANDO, F FBPR CERTIFICATE OF TEL. 407.647.7275 UTHORIZATION NO.24 FAX. 407.806.4500 100037913

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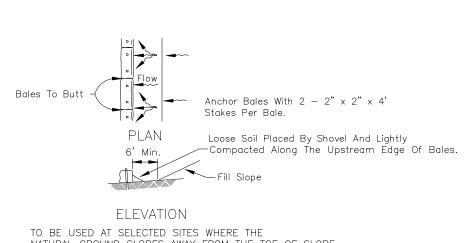




# SPACING RECOMMENDATION FOR SILT FENCES & SYNTHETIC BALES

N.T.S.

FOR ROAD & BRIDGE CONSTRUCTION, LATEST EDITION.



NATURAL GROUND SLOPES AWAY FROM THE TOE OF SLOPE

BARRIERS FOR FILL SLOPES

SYNTHETIC BALE LOCATION N.T.S.

Post (Options: 2" x 4" Or 21 Min. Dia. Wood; Steel 1.33 Lbs/Ft. Min.) - 18 Oz. Nylon Reinforced PVC Fabric (300 psi Test) EHAN RECREATIONA IMPROVEMENTS 482 SOUTH KELLER ROAD ORLANDO, FL BOULEVARD TAMPA, FLORIDA FBPR CERTIFICATE OF AUTHORIZATION NO.24 FAX. 407.806.4500 www.atkinsglobal.com

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DRD

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CHECKED:

APPROVED:

SHEET NO.

# MAP OF BOUNDARY AND TOPOGRAPHIC SURVEY

A PORTION OF TRACTS 18, 27, 28, 29, 30, AND 31 OF "FLORIDA FRUITLANDS COMPANY'S SUBDIVISION NO. 1", RECORDED IN PLAT BOOK 2, PAGE 17, MIAMI-DADE COUNTY RECORDS, LYING IN SECTION 5, TOWNSHIP 53 SOUTH, RANGE 40 EAST, TOWN OF MEDLEY, MIAMI-DADE COUNTY, FLORIDA

#### SURVEYOR'S NOTES:

#### SECTION 1) DATE OF FIELD SURVEY:

1. The date of completion of original field Survey was on April 02, 2014.

#### SECTION 2) GENERAL DESCRIPTION OF THE SURVEY AREA:

A Portion of Tracts 61 and 62 of FLORIDA FRUIT LANDS COMPANY'S SUBDIVISION No 1 of Section 11, Township 53 South, Range 40 East as Recorded in Plat Book 2, Page 17 of the Public Records of Miami-Dade County, Florida, more particularly described as follows:

Commence at a the SW Corner of said Tract 61; thence run N 89\*43'00" E a distance of 499.94 feet to the POINT OF BEGINNING of the herein described parcel of land: thence run N 01°47'16" W a distance of 197.92 feet to a point of intersection with a line that lies 197.85 feet North of and parallel with the South line of said Tract 61; thence run N 89°43'00" E along said line that lies 197.85 feet North of and parallel with the South line of Tract 61, for a distance of 12.98 feet; thence run N 02°27'42" W a distance of 134.89 feet; thence run N 89°42'50" E a distance of 141.95 feet; thence run N 48°52'48" W a distance of 72.01 feet: thence run N 41°31'51" E a distance of 44.39 feet; thence run N 01°22'26" W a distance of 74.28 feet to the Southwesterly Right-of-Way line of NW South River Drive; thence run S 50°08'31" E along the said Southwesterly Right-of-Way line of NW South River Drive a distance of 244.77 feet; thence run S 89°42'54" W a distance of 32.61 feet; thence run S 49°41'08" E a distance of 29.85 feet; thence run S 44°22'58" W a distance of 27.06 feet; thence run S 89°42'54" W a distance of 74.22 feet: thence run S 01°06'22" E a distance of 291.18 feet to a point of intersection with the South line of said Tract 61; thence run S 89°43'00" W a distance of 206.88 feet; to the POINT OF

Said lands containing 86,021 Square Feet and 1.975 Acres more or less and lying and being in the Town of Medley, Miami Dade County, Florida.

Folio No.: 22-3011-002-1242, 22-3011-002-1323, 22-3011-002-1325, 22-3011-002-1243

#### SECTION 3) ACCURACY:

The accuracy obtained by field measurement methods and office calculations of closed geometric figures meets and exceeds the Minimum Technical Standards requirement for this type of survey as defined in Rule 5J-17.051, Florida Administrative Code.

Elevations of well identified features as depicted on the Survey Map were measured to an estimated vertical position accuracy of 1/100 of a foot on hard surfaces and 1/10 of a foot on ground surfaces.

Well identified features as depicted on the Survey Map were measured to an estimated horizontal position accuracy of 1/10 of a foot.

This Map of Survey is intended to be displayed at a scale of 1"=40' or smaller.

#### SECTION 4) SOURCES OF DATA:

North arrow direction is based on an assumed Meridian.

Bearings as shown hereon are based upon the Florida State Plane Coordinates, Florida East Zone, North American Datum (NAD) of 1983 adjustment of National Geodetic Survey—Cors 1996 (NAD86/CORS96).

This property appears to be located in Flood Zones "X", "AH" (Base Flood Elevation =7.0) and "AE" (Base Flood Elevation=7.0) with a Base Flood Elevation of 7.0 Feet, as per Federal Emergency Management Agency (FEMA) Community Number 120649 (Town of Medley), Map Panels No. 12086C0281 and 12086C077 Suffix L, Map Revised Date: September 11, 2009.

Plat of "FLORIDA FRUIT LAND'S COMPANY SUBDIVISION", recorded in Plat Book 2, at Page 17, Public Records of Miami-Dade County Florida.

#### LEGEND: = TELEPHONE MANHOLE = DRIVEWAY DRWY P.G. = PAGE = DRAINAGE MAINTENANCE EASEMENT P.O.B. = POINT OF BEGINNING = DRAINAGE MANHOLE ത = CANAL MAINTENANCE FASEMENT = SANITARY SEWER MANHOLE = PROPERTY LINE = LITHITY FASEMENT = NOT TO SCALE T.B.M. = TEMPORARY BENCH MARK = ARC DISTANCE = PARKING METER = ELEVATION BLDG. = BUILDING = FLAG POLE = CATCH BASIN = WATER OUTLET F.F.E. = FINISH C.B.S. = CONCRETE BLOCK STRUCTURE FLOOR ELEVATION BL. = BLOCK = CHORD DISTANCE S.I.R. = SET IRON REBAR P.O.C. = POINT OF COMMENCEMENT $\cap$ = CLEANOUT = CALCULATED VALUE = MONUMENT LINE = FOUND NAIL = CENTER LINE = DRAINAGE CATCH BASIN P.T. = POINT OF TANGENCY CONC = CONCRETE = CENTRAL ANGLE E.N.C. = ENCROACHMENT = POINT OF REVERSE CURVE PRC FΗ = FIRE HYDRANT = TRAFFIC SIGN = POINT OF CURVATURE = FOUND IRON PIPE F.I.P. = CATCH BASIN (INLET) F.N.D. = FOUND NAIL/DISK = FOUND IRON REBAR P.C.C. = POINT OF COMPOUND CURVE = LOWEST FLOOR ELEVATION = BASELINE RIP SET = LIGHT POLE N.G.V.D. = NATIONAL GEODETIC VERTICAL DATUM = MEASURED VALUE INV. EL. = INVERT ELEVATION = RECORD VALUE = PLAT BOOK -= RIGHT OF WAY LINE & . P.C.P. = PERMANENT CONTROL POINT = CONCRETE POWER POLE \_\_\_\_ = PROPERTY LINE CMP = CORRUGATED METAL PIPE X = FIRE HYDRANT \_\_\_\_ = EASEMENT LINE = POINT OF INTERSECTION = IRON FENCE = ELECTRIC BOX = BLOCK CORNER B/C -//-- WOOD FENCE = CARLE TV ROX = RADIUS RAD. = RADIAL WPB⊠ = WIRE PULL BOX - ou -- ou -- OVERHEAD UTILITY LINE = RESIDENCE = WATER VALVE R/W = RIGHT OF WAY TILE = BRICK = SEWER VALVE FMY = SECTION PAVEMEN = SET IRON PIPE T A A T = CONCRETE = METAL LIGHT POLE MLP = TOP OF PIPE = WATER MANHOLE = GRAVEL = SIDFWALK

Plat of "MEDLEY GARDEN HEIGHTS", recorded in Plat Book 59, at Page 79, Public Records of Miami-Dade County Florida.

Centerline of Miami Canal C-6 per Baseline Control Survey prepared for SOUTH FLORIDA WATER MANAGEMENT DISTRICT, sheets 9 through 12 of 21 sheets in total, File No. C-6RW-88-0531D, Drawing NO. C-6-5, last dated OCTOBER, 1988.

All elevations shown hereon are based on the National Geodetic Vertical Datum of 1929, as per the following Miami-Dade County Benchmarks:

1. Benchmark: N-911. Elevation: + 13.80 feet. Located at Dade County Brass Disk in sidewalk at NW corner of bridge over Miami River Canal C-6 (NW 72 Ave), Miami-Dade County, Florida.

2. Benchmark: H-335-1. Elevation: + 13.32 feet.
Located at Dade County Brass Bar in SE corner of bridge over Miami River
Canal C-6
NW. 67 Avenue - Just East of and N Royal Poinciana Blvd - 15 feet North of
Centerline, Miami-Dade County, Florida.

#### For Horizontal Control

The following Horizontal Control Data were obtained from the Florida Permanent Network Web Site (a Florida Reference Station Service Provider, www.myfloridagps.com).

#### Florida Permanent Network Control Stations:

Name: MIAMI 6 (MIAMI)
Code: MIAMI
Geographic Coordinates:
Latitude: 25'30' 03.79601" N
Longitude: 80'33' 00.43281" W
State Plane Coordinates:
Northing: 509,427.49 US Feet
Easting: 931,640.11 US Feet
Creation Date: 08-02-2010
Receiver Type: TRIMBLE NETRS
Satellite System: GPS Only
Coverage Radius: 30 km

Name: MIAMI 3 (RICHMOND)
Code: RMND
Geographic Coordinates:
Latitude: 25°36' 49.58922" N
Longitude: 80°23' 02.14116" W
State Plane Coordinates:
Northing: 465,790.41 US Feet
Easting: 859,175.16 US Feet
Creation Date: 08-02-2010
Receiver Type: LEICA GRX1200PRO
Satellite System: GPS Only
Coverage Radius: 30 km

# SECTION 5 - TOWNSHIP 53 SOUTH - RANGE 40 EAST W 27TH ST W 27TH ST W 27TH ST W 27TH ST NW 77TH TE NW 77TH TE

# LOCATION MAP

#### SECTION 5) LIMITATIONS:

As to the determination of tree, palm and planting species falls outside the purview of the land surveying practice, all information with respect to same is hereby presented for informational purposes only.

Since no other information was furnished other than that is cited in the Sources of Data, the Client is hereby advised that there may be legal restrictions on the Subject Property that are not shown on the Survey Map that may be found in the Public Records of Miami—Dade County.

The Surveyor makes no representation as to ownership or possession of the Subject Property by any entity or individual that may appear on the Public Records of this County.

No excavation or determination was made as to how the Subject Property is served by utilities.

No improvements were located, other than those shown. No underground foundations, improvements and/or utilities were located or shown hereon.

#### SECTION 6) CLIENT INFORMATION:

This Boundary and Topographic Survey was prepared at the insistence of and certified to:

TOWN OF MEDLEY

#### SECTION 7) SURVEYOR'S CERTIFICATE:

I hereby certify: That this "Boundary and Topographic Survey" and the Survey Map resulting therefrom was performed under my direction and is true and correct to the best of my knowledge and belief and further, that said "Boundary and Topographic Survey" meets the intent of the applicable provisions of the "Minimum Technical Standards for Land Surveying in the State of Florida", pursuant to Rule 5J-17.051 through 5J-17.052 of the Florida Administrative Code and its implementing law, Chapter 472.027 of the Florida Statutes.

HADONNE CORP, a Florida Corporation Florida Certificate of Authorization Number LB7097

By:		
•	Abraham Haddad, PSM	Signature Date:
	Registered Surveyor and Mapper LS6006	3
	State of Florida	

NOTICE: Not valid without the signature and original raised seal of a Florida Licensed Surveyor and Mapper. Additions or deletions to Survey Maps by other than the signing party are prohibited without the written consent of the signing party.

SURVEY HADON NAME ON NAME OF SOME SOME SURVEYORS AND MAPPERS 8700 West Flagler Street, Suite 420, Miami, Florida, 33174 phone: 305.266 1188 fax: 305.207.6845 www.hadonne.com

TOWN OF MEDLEY of MEEHAN PARK, TOWN OF MEDLEY, FI

TOPOGRAPHIC

**BOUNDARY** 

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MAP

REVISIONS
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4-5-6-7-8-

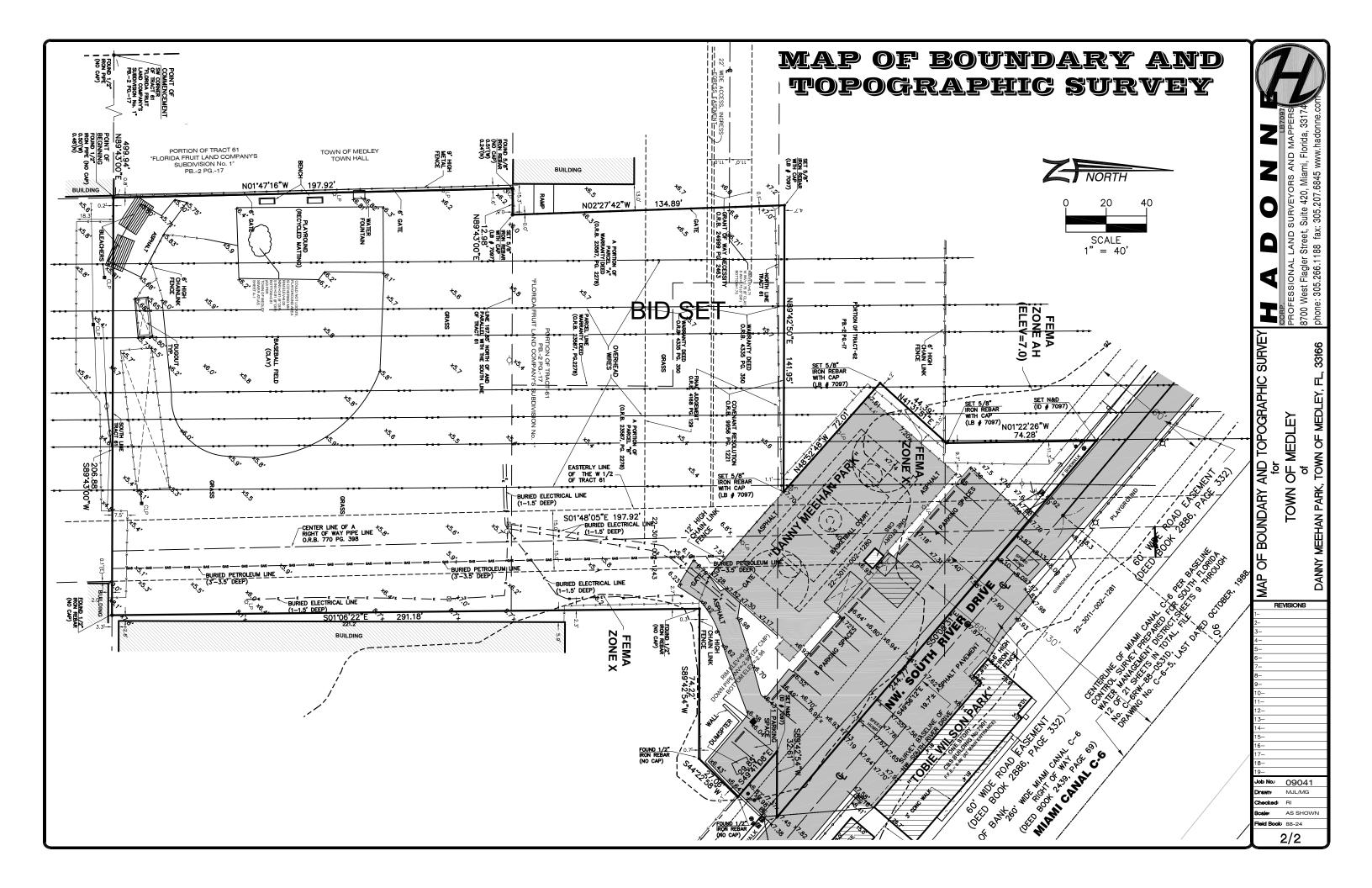
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SHRUBS BOTANICAL NAME / COMMON NAME SIZE SPACING QTY 0 4` OA Cordyline fruticosa / Ti Plant Per plan (·) 36" Ht. x 18" Spr. SHRUB AREAS BOTANICAL NAME / COMMON NAME SIZE SPACING SPACING QTY palanus icaco 'Red Tip' / Red Tip Cocoplum 16" v 16" Ficus microcarpa 'Green Island' / Green Island Ficus 14" x 14" 24" o.c. 399 SOD/SEED BOTANICAL NAME / COMMON NAME CONT SPACING SPACING QTY Paspalum notatum / Bahiagrass 7.940 sf

RID SET

GATE OPENING WIDTH: 10'-0". MOUNT GATES TO POSTS AS PER MANUF. SPECS. GATE TO INCLUDE LOCK MECHANISM ASSEMBLY AND CANE BOLT BOTH LEAFS.

GATE OPENING WIDTH: 12'-0". MOUNT GATES TO POSTS AS PER MANUF. SPECS. GATE TO INCULDE LOCK MECHANISM

# PLANTING SCHEDULE

SYMBOL	TYPE	DESCRIPTION	FINISH	COLOR	MANUFACTURER	NOTES		
PAVING								
	PAVING A	6" THK. FIBERMESH REINFORCED STANDARD CONCRETE DESIGNED FOR VEHICULAR SERVICE ACCESS	SPONGE FLOAT FINISH	STANDARD GRAY	N/A	RE: CIVIL DRAWINGS FOR TYP. CONSTRUCTION AND JOINTING DETAILS. SEE L-101 AND L-151 FOR JOINTING LAYOUT		
	PAVING B	4" THK. FIBERMESH REINFORCED STANDARD CONCRETE	SPONGE FLOAT FINISH	STANDARD GRAY	N/A	RE: CIVIL DRAWINGS FOR TYP. CONSTRUCTION AND JOINTING DETAILS. SEE L-101 AND L-151 FOR JOINTING LAYOUT		
	PAVING C	4° THK. FIBERMESH REINFORCED STANDARD GRAY CONCRETE WITH ACRYLOTEX LA COURT SURFACING AND PLEXI-COLOR TEXTURED LINE PAINT	LIGHT BROOM FINISH	CONC.: STANDARD GRAY SURFACING: AUSTRALIAN OPEN TRUE BLUE LINES: WHITE	CALIFORNIA PRODUCTS CORPORATION 978.623.9980 www.plexipave.com	INSTALL AS PER MANUF.SPECS.		
	PAVING D	ASPHALT PAVING	N/A	N/A	N/A	RE: CIVIL DRAWINGS		
	PAVING E	2 ½° THK. BRICK PAVER FOR PEDESTRIAN WALK IN RUNNING BOND PATTERN.	ENGLISH EDGE	RED	PINE HALL BRICK, 800.334.8689 www.pinehallbrick.com	PEDESTRIAN BRICK PAVERS FOR LASER ENGRAVED DONOR BRICK PROGRAM. INSTALL PER MANUF. SPECS.		
	PAVING F	2 3/4" THK. BRICK PAVER FOR CROSSWALK IN VEHICULAR USE AREAS WITH 90 DEGREE HERRINGBONE PATTERN AND SAILOR COURSE BORDER	ENGLISH EDGE	DARK ACCENT	PINE HALL BRICK, 800.334.8689 www.pinehallbrick.com	PAVERS FOR CROSSWALKS IN VEHICULAR USE AREAS ONLY. FOR FURTHER LAYOUT PATTERN INFO. SEE DETAILS. INSTALL PER MANUF. SPECS.		
	PAVING G	12" WIDE FLUSH CONCRETE BAND. DEPTH: 6" AT PEDESTRIAN USE AREAS, 12" AT CROSSWALKS W/IN VEHICULAR USE AREAS.	SPONGE FLOAT FINISH	STANDARD GRAY	N/A	SEE PLANS FOR LOCATIONS.		
	PAVING H	12" WIDE FLUSH CONCRETE BAND. DEPTH: 12" AT CROSSWALKS W/IN VEHICULAR USE AREA.	SPONGE FLOAT FINISH	STANDARD GRAY	N/A	SEE PLANS FOR LOCATIONS.		
STRUCTU	STRUCTURE/FURNISHINGS							
$\Diamond$	PICNIC SHELTER	GABLE ROOF 16x16 STANDING SEAM ROOF OVER T&G W/ 12:12 PITCH. MODEL #E1-REK-16x16-TGSS-52273 POST ANCHORING: FIXED BASE W/O CONCEALING SLAB.	ROOF: 24 GA. STANDING SEAM METAL T&G WOOD ROOF DECK FRAME: POWDER COAT FINISH	ROOF: GALVALUME PLUS T&G STAIN: NATURAL #209 FRAME: GREYSTONE	MANUF.: POLIGON REP: REP SERVICES, INC. 407.831.9658	CONTRACTOR TO SUBMIT SHOP DWGS. FOR SHELTER COMPONENTS, CONSTRUCTION AND INSTALLATION FOR REVIEW AND APPROVAL BY OWNER'S REP.		
**	PICNIC TABLE A	ITEM #BH1841R BEACON HILL RECYCLED PLASTIC TABLE W/ 4 FLAT SEATS	RECYCLED PLASTIC LUMBER POWDER COAT METAL COMPONENTS	FRAME COLOR: PEWTER SLAT COLOR: CEDAR	MANUF.: ANOVA REP: REP SERVICES, INC. 407.831.9658	SURFACE MOUNT. ASSEMBLE AND INSTALL AS PER MANUF. SPECS. RE: 2/L151 FOR LAYOUT INFO.		
$\Diamond \wedge \Diamond$	PICNIC TABLE B	ITEM #BH1831R REACON HILL RECYCLED PLASTIC ADA TABLE W/	RECYCLED PLASTIC LUMBER	FRAME COLOR: PEWTER	MANUE: ANOVA	SURFACE MOUNT, ASSEMBLE AND INSTALL AS PER MANUE		

	PAVING F	2 ½" THIK. BRICK PAVER FOR CROSSWALK IN VEHICULAR USE AREAS WITH 90 DEGREE HERRINGBONE PATTERN AND SAILOR COURSE BORDER	ENGLISH EDGE	DARK ACCENT	PINE HALL BRICK, 800.334.8689 www.pinehallbrick.com	PAVERS FOR CROSSWALKS IN VEHICULAR USE AREAS ONLY, FOR FURTHER LAYOUT PATTERN INFO. SEE DETAILS. INSTALL PER MANUF. SPECS.
	PAVING G	12" WIDE FLUSH CONCRETE BAND. DEPTH: 6" AT PEDESTRIAN USE AREAS, 12" AT CROSSWALKS W/IN VEHICULAR USE AREAS.	SPONGE FLOAT FINISH	STANDARD GRAY	N/A	SEE PLANS FOR LOCATIONS.
	PAVING H	12" WIDE FLUSH CONCRETE BAND. DEPTH: 12" AT CROSSWALKS W/IN VEHICULAR USE AREA.	SPONGE FLOAT FINISH	STANDARD GRAY	N/A	SEE PLANS FOR LOCATIONS.
STRUCTU	JRE/FURNISHI	NGS				
$\Diamond$	PICNIC SHELTER	GABLE ROOF 16x16 STANDING SEAM ROOF OVER T&G W/ 12:12 PITCH. MODEL #E1-REK-16x16-TGSS-52273 POST ANCHORING: FIXED BASE W/O CONCEALING SLAB.	ROOF: 24 GA. STANDING SEAM METAL T&G WOOD ROOF DECK FRAME: POWDER COAT FINISH	ROOF: GALVALUME PLUS T&G STAIN: NATURAL #209 FRAME: GREYSTONE	MANUF.: POLIGON REP: REP SERVICES, INC. 407.831.9658	CONTRACTOR TO SUBMIT SHOP DWGS. FOR SHELTER COMPONENTS, CONSTRUCTION AND INSTALLATION FOR REVIEW AND APPROVAL BY OWNER'S REP.
**	PICNIC TABLE A	ITEM #BH1841R BEACON HILL RECYCLED PLASTIC TABLE W/ 4 FLAT SEATS	RECYCLED PLASTIC LUMBER POWDER COAT METAL COMPONENTS	FRAME COLOR: PEWTER SLAT COLOR: CEDAR	MANUF.: ANOVA REP: REP SERVICES, INC. 407.831.9658	SURFACE MOUNT. ASSEMBLE AND INSTALL AS PER MANUF. SPECS. RE: 2/L151 FOR LAYOUT INFO.
<b>\$</b> \$	PICNIC TABLE B	ITEM #BH1831R BEACON HILL RECYCLED PLASTIC ADA TABLE W/ 3 FLAT SEATS	RECYCLED PLASTIC LUMBER POWDER COAT METAL COMPONENTS	FRAME COLOR: PEWTER SLAT COLOR: CEDAR	MANUF.: ANOVA REP: REP SERVICES, INC. 407.831.9658	SURFACE MOUNT. ASSEMBLE AND INSTALL AS PER MANUF. SPECS. RE: 2/L151 FOR LAYOUT INFO.
	BLEACHER	#LDLW 3-ROW LOW RISE DURA LITE WELDED PORTABLE BLEACHER. 15' LENGTH	ALUMINUM	N/A	OUTDOOR ALUMINUM, INC. 800.225.4249 www.outdooraluminum.com	ASSEMBLE AND INSTALL PER MANUF, SPECS. RE: 3/L151 FOR LAYOUT INFO.
	BENCH	ITEM #RCPMC6 MADISON 6' RECYCLED PLASTIC CONTOUR BENCH	RECYCLED PLASTIC LUMBER POWDER COAT METAL COMPONENTS	FRAME COLOR: PEWTER SLAT COLOR: CEDAR	MANUF.: ANOVA REP: REP SERVICES, INC. 407.831.9658	SURFACE MOUNT. ASSEMBLE AND INSTALL AS PER MANUF. SPECS. RE: 4/L151 FOR TYP. LAYOUT INFO.
0	WASTE RECEPTACLE	ITEM #TR35DT WOODWIND 35 GALLON RECYCLED PLASTIC RECEPTACLE W/ OPEN HOOD TOP	RECYCLED PLASTIC LUMBER POWDER COAT METAL COMPONENTS	FRAME & LID: PEWTER SLAT COLOR: CEDAR	MANUF.: ANOVA REP: REP SERVICES, INC. 407.831.9658	SURFACE MOUNT. ASSEMBLE AND INSTALL AS PER MANUF. SPECS.
	FLAG POLE	ALUMINUM FLAG POLE. 25' EXPOSED HT. INDEPENDENCE CABLE-BASED INTERNAL HALYARD SYSTEM. EMBEDDED MOUNTING. FC-11 FLASH COLLAR. 6" BUTT DIA. AND .188 WALL THICKNESS.	POWDER COAT FINISH	GRAY TO MATCH SPECIFIED PEWTER COLOR	MANUF.: CONCORD INDUSTRIES, INC. 800.527.3902. www.concordindustries.com	INSTALL AS PER MANUF. REQUIREMENTS. INSTALLED POLE AND FLAG TO MEET WIND LOAD REQUIREMENTS.
	BICYCLE PARKING	ITEM #CIRCLEBR CIRCLE POWDER COATED BIKE RACK	POWDER COAT FINISH	GRAY TO MATCH SPECIFIED PEWTER COLOR	MANUF.: ANOVA REP: REP SERVICES, INC. 407.831.9658	SURFACE MOUNT. ASSEMBLE AND INSTALL AS PER MANUF. SPECS. RE: 5/L151 FOR LAYOUT INFO.
	BASKETBALL GOAL	POLE: REINF. CONC. #TF7175 BACKBOARD: 54" x 39" RECTANGULAR #TF7172 RIM: #TF7174 W/ SUPPLIED NET	POLE: SMOOTH/STAINED E-1 BACKBOARD: CAST ALUMINUM RIM: POWDER COATED STEEL	POLE: SMOOTH/STAINED E-1 BACKBOARD: WHITE PER MANUF. RIM: POWDER COAT PER MANUF.	MANUF.: WAUSAU TILE, INC. 800.388.8728. www.wausautile.com	INSTALL AS PER MANUF. SPECS. SEE SHEET L153 FOR ADDITIONAL DETAILS.
	PORTABLE BASKETBALL GOAL	XL BASE, 52" STEEL-FRAMED SHTPF, POWER LIFT (ELITE) MODEL #90228	POWDER COAT FINISH METAL COMPONENTS	BLACK	LIFETIME STORE, 800.2253865 www.lifetime.com	ASSEMBLE PER MANUF. SPECS.
	VOLLEYBALL	#2216-00G 3.5" O.D. COMPETITION POSTS (2) W/FIXED EYES AND ROPE CLAMPS. #8362-20 COMPETITION NET W/TOP ROPE/BOTTOM ROPE TIES. #8303-24 3.5" O.D. GROUND SLEEVE, HINGED CAP	POWDER COAT FINISH METAL COMPONENTS	BLACK	MANUF.: PW ATHLETIC MFG. CO. REP: SITE HORIZONS 407.641.0241	ASSEMBLE AND INSTALL PER MANUF. SPECS. VOLLEYBALL POSTS AND NET TO BE REMOVABLE SYSTEM.
呂 _ ·	BATTING CAGE	PREMIUM #42 KVX200 PACKAGE. SIZE: 12'H x 14'W x 70'L	POWDER COAT FINISH METAL COMPONENTS	BLACK	MANUF.: BATTING CAGES, INC. 800.463.6865. www.battingcagesinc.com	ASSEMBLE AND INSTALL PER MANUF. SPECS.
<b>)—</b>	FITNESS STATION A	HEALTHBEAT AB CRUNCH/LEG LIFT #161314	POWDER COAT FINISH METAL COMPONENTS	GRAY TO MATCH SPECIFIED PEWTER COLOR	MANUF: LANDSCAPE STRUCTURES, INC. REP: REP SERVICES, INC. 407.831.9658	ASSEMBLE AND INSTALL PER MANUF. SPECS.
<b>—</b>	FITNESS STATION B	HEALTHBEAT ASSISTED ROW/PUSH-UP #161316	POWDER COAT FINISH METAL COMPONENTS	GRAY TO MATCH SPECIFIED PEWTER COLOR	MANUF: LANDSCAPE STRUCTURES, INC. REP: REP SERVICES, INC. 407.831.9658	ASSEMBLE AND INSTALL PER MANUF, SPECS.
٠Ç	FITNESS STATION C	HEALTHBEAT PLYOMETRICS #16131	POWDER COAT FINISH METAL COMPONENTS	GRAY TO MATCH SPECIFIED PEWTER COLOR	MANUF: LANDSCAPE STRUCTURES, INC. REP: REP SERVICES, INC. 407.831.9658	ASSEMBLE AND INSTALL PER MANUF. SPECS.
WALL, FE	NCING AND G	ATES				
	RETAINING WALL	DIAMOND 10D STRAIGHT FACE RETAINING WALL SYSTEM WITH CAP.	STRAIGHT FACE UNIT AND CAP	WHEAT	MANUF.: ANCHOR BLOCK CO. REP: OLDCASTLE COASTAL www.oldcastlecoastal.com, 305.216.0947	INSTALL AS PER MANUF. SPECS.
• • •	FENCE	ECHELON II INDUSTRIAL ORNAMENTAL ALUMINUM FENCE. 6' HT. MAJESTIC STYLE 3-RAIL.	POWDER COAT FINISH	BLACK	AMERISTAR FENCE PRODUCTS, INC. www.ameristarfence.com, 888.333.3422	INSTALL AS PER MANUF. SPECS.

BLACK

BLACK

MERISTAR FENCE PRODUCTS, INC

AMERISTAR FENCE PRODUCTS, INC

POWDER COAT FINISH

#### **GENERAL NOTES**

- 1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN PROPER PERMITS FOR HIS WORK
- 2. ALL WORK, MATERIAL AND EQUIPMENT UTILIZED SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
- 3. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL GUIDELINES AND BUILDING CODES.
- 4. THE CONTRACTOR SHALL VERIFY AND STAKE ALL UTILITIES PRIOR TO CONSTRUCTION.
- THE CONSTRUCTION SITE SHALL BE LEFT CLEAN AND FREE FROM DEBRIS AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PREPARING AND MAINTAINING ALL CONSTRUCTION AREAS FREE OF HAZARDOUS MATERIALS THROUGHOUT THE CONSTRUCTION
- THE CONTRACTOR SHALL APPLY FOR, OBTAIN AND PAY FOR ALL REQUIRED PERMITS. LINESS OTHERWISE SPECIFIED PERMITS. SHALL BE POSTED ACCORDING TO LOCAL, STATE AND FEDERAL
- 7. ALL WORK, MATERIAL AND EQUIPMENT UTILIZED SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE
  MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS AND /OR APPROVED SHOP DRAWINGS.
- 8. ALL WORK FOR THIS PROJECT SHALL CONFORM TO STANDARDS PUBLISHED BY RECOGNIZED PROFESSIONAL AND INDUSTRY ORGANIZATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND BECOMING FAMILIAR WITH ALL EXISTING CONDITIONS AFFECTING THE WORK PRIOR TO BIDDING

- 10. THE CONTRACTOR SHALL SEEK CLARIFICATION PRIOR TO BIDDING OF ANY DISCREPANCIES BETWEEN THE LANDSCAPE ARCHITECTURAL, CIVIL, ET AL DRAWINGS. THE MOST STRINGENT REQUIREMENTS SHALL APPLY
- 11. THE CONTRACTOR SHALL SEEK CLARIFICATION PRIOR TO BIDDING OF ANY QUESTIONS CONCERNING CONDITIONS, DRAWINGS, DETAILS AND SPECIFICATIONS THAT WILL AFFECT SUBMISSION OF A COMPLETE AND ACCURATE BID. SUBMISSION OF QUESTIONS SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE INSTRUCTION TO BIDDERS.
- 12. THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE OWNER'S REPRESENTATIVE FOR ANY DEVIATION FROM THE CONTRACT DOCUMENTS.
- 13. ALL REQUESTS FOR INFORMATION CLARIFICATION, DEVIATION OR SUBSTITUTION FOR ITEMS IN THE CONTRACT DOCUMENTS SHALL BE MADE IN WRITING THROUGH THE CONTRACTOR. THE WNER'S REPRESENTATIVE SHALL HAVE SEVEN (7) WORKING DAYS UPON RECEIPT IN WHICH TO RESPOND.
- 14 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND/OR REPLACEMENT OF ANY ITEMS/AREAS DAMAGED DURING THE CONSTRUCTION PROCESS.
- 15. THE CONTRACTOR SHALL LAYOUT AND VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. REPORT ANY DISCREPANCIES IMMEDIATELY TO THE GENERAL
- 16. DIMENSIONS SHALL NOT BE SCALED FROM THE CONTRACT DOCUMENTS, WRITTEN DIMENSIONS SHOWN ON THE PLANS SHALL RULE. IN THE CASE OF AMBIGUITY THE CONTRACTOR SHALL REQUEST IN WRITING A CLARIFICATION OF DIMENSIONS FROM THE GENERAL CONTRACTOR.
- 17. ALL ITEMS LISTED ON MATERIALS/FURNISHINGS SCHEDULE ARE AS SPECIFIED OR APPROVED EQUAL.

#### **HARDSCAPE NOTES**

- 1. DIMENSIONS SHALL NOT BE SCALED FROM THE CONTRACT DOCUMENTS, WRITTEN DIMENSIONS SHOWN ON THE PLANS SHALL RULE. IN THE CASE OF AMBIGUITY THE CONTRACTOR SHALL REQUEST IN WRITING A CLARIFICATION OF DIMENSIONS FROM THE PROJECT
- 2. QUANTITIES SHOWN ON SCHEDULES ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY QUANTITIES. WHERE THERE IS A DISCREPANCY BETWEEN THE QUANTITY SHOWN ON THE HARDSCAPE SCHEDULE AND THE QUANTITY OF ITEMS SHOWN ON THE PLANS, THE PLANS SHALL RULE. CONTRACTOR TO NOTIFY PROJECT ENGINEER OF ANY QUANTITY DISCREPANCY PRIOR TO
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO THE START OF FABRICATION FOR ALL APPLICABLE ITEMS. THE CONTRACTOR SHALL SUBMIT FIVE (5) SETS OF SHOP DRAWINGS TO THE PROJECT ENGINEER. THE PROJECT ENGINEER SHALL HAVE SEVEN (7) WORKING DAYS UPON RECEIPT IN WHICH TO RESPOND.
- 4. REFER TO ELECTRICAL DRAWINGS FOR LIGHTING SPECIFICATIONS AND LAYOUT. ANY LIGHTING SHOWN ON PLANS AND DETAILS IS FOR INFORMATIONAL PURPOSES ONLY.

#### LANDSCAPE NOTES

- 1. ALL PLANTING TO CONFORM TO ALL APPLICABLE LAWS OF THE TOWN OF MEDLEY.
- ABOVE AND BELOW GRADE UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING WORK. IF UTILITY CONFLICTS BECOME EVIDENT. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR ANY NECESSARY ADJUSTMENTS. WHEN WORKING IN AREAS WHERE UTILITIES
  ARE KNOWN TO EXIST, UTILITY LOCATIONS MAY NEED TO STAKED BY A SURVEYOR OR UTILITY COMPANY. THE CONTRACTOR HAS THE OPTION TO CALL SUNSHINE ONE CALL'
  AT 1-800-432-4770 TO SCHEDULE LOCATION OF UTILITIES THAT SUBSCRIBE TO THEIR SERVICE.
- THE CONTRACTOR SHALL REMOVE ALL LIMEROCK, LOOSEN COMPACTED SUBGRADE, AND BACKFILL WITH PLANTING MIX, IN ALL PARKING LOT ISLANDS BEFORE INSTALLING ANY PLANT
- 4 IT WILL BE THE SOLE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO INSURE THAT ALL NEW PLANTING RECEIVE ADEQUATE WATER DURING INSTALLATION AND THROUGHOUT THE PLANT WARRANTEE PERIODS, DEEP WATERING OF ALL NEW PLANTS AND ANY SUPPLEMENTARY WATERING THAT MAY BE REQUIRED TO AUGMENT NATURAL RAINFALL OR SITE IRRIGATION IS MANDATORY TO INSURE PROPER PLANT DEVELOPMENT AND SHALL BE PROVIDED AS PART OF THIS CONTRACT.THE LANDSCAPE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES ON THIS PROJECT.
- 5. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR HOLDING THE FINE GRADING OF PLANTING AREAS TO INSURE AT LEAST 3% POSITIVE DRAINAGE AWAY FROM BUILDINGS AND INTO TURE AREAS PONDS STREETS OR OTHER DRAINAGE WAYS. TURF AND PLANTING BEDS SHALL MEET SIDEWALKS AND FLATWORK AT 2" BELOW THE FLATWORK.

- IF REQUIRED, PRUNING OF EXISTING TREES AS FIELD DIRECTED BY OWNER'S REPRESENTATIVE SHALL BE CONDUCTED UNDER THE DIRECT SUPERVISION OF A CERTIFIED ARBORIST IN THE
- 7. LANDSCAPE CONTRACTOR SHALL REPAIR, RELOCATE AND/OR REPLACE ANY DAMAGED OR REMOVED LANDSCAPE AFFECTED BY CONSTRUCTION AND NOT DELINEATED ON THE DEMOLITION PLANS, CONTRACTOR SHALL OBTAIN APPROVAL FROM OWNER'S REPRESENTATIVE, PRIOR TO ANY REMEDIATION LANDSCAPE EFFORTS.
- DIMENSIONS SHOWN ON THE PLANS SHALL SUPERSEDE SCALED DIMENSIONS. IF NECESSARY THE CONTRACTOR SHALL REQUEST IN WRITING A CLARIFICATION OF DIMENSIONS FROM THE PROJECT ENGINEER.
- CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER OF ANY QUANTITY DISCREPANCIES BETWEEN SCHEDULE AND PLAN PRIOR TO CONSTRUCTION
- 10. SOD TO INCLUDE ALL DISTURBED AREAS THAT ARE NOT LANDSCAPED OR HARDSCAPED. CONTRACTOR SHALL CONFIRM SOD QUANTITY PRIOR TO BID.
- 11. PLANT MATERIAL SHALL MEET OR EXCEED ALL SPECIFICATIONS REGARDING SIZING. IT MAY BE NECESSARY TO EXCEED SOME OF THE SPECIFICATIONS TO MEET THE MINIMUM REQUIREMENTS OF OTHERS.



RECREATION SOVEMENTS LANDSCAP EHAN Σ DANNY GENE

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DESIGN TLJ CHECKED HLB

TLJ L001

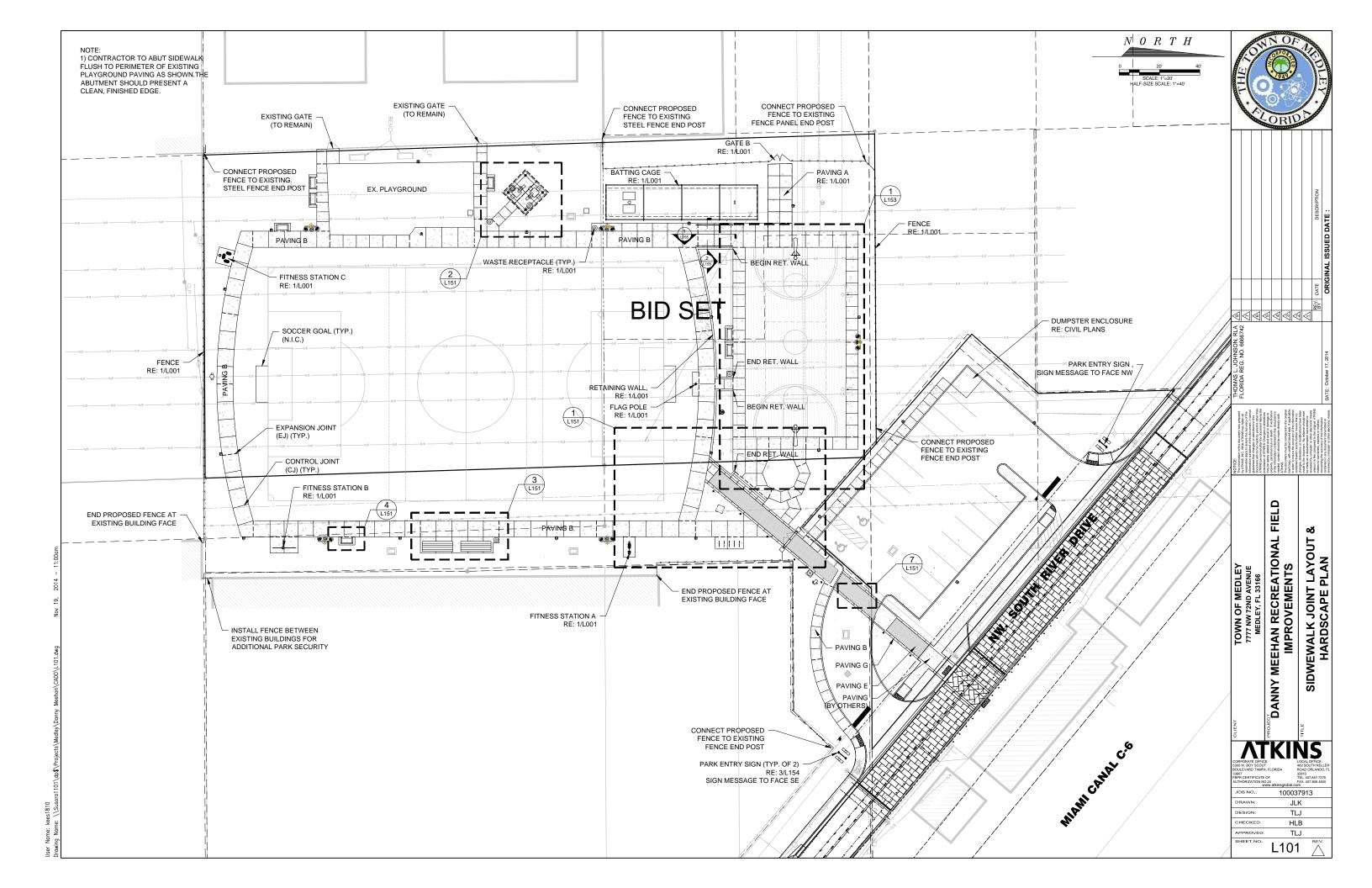
MATERIALS/FURNISHINGS SCHEDULE

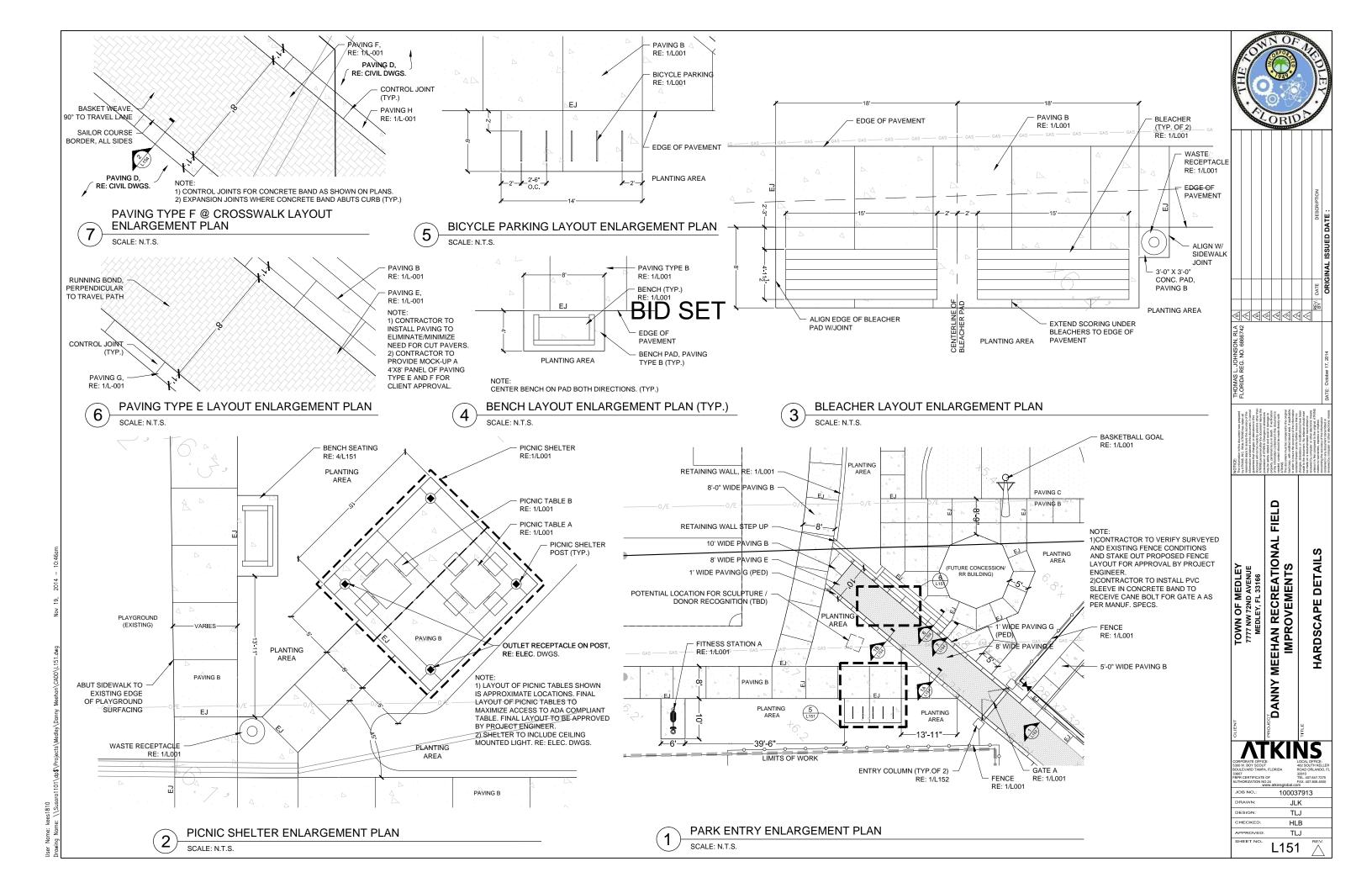
ECHELON II INDUSTRIAL ORNAMENTAL ALUMINUM DOUBLE SWING GATE. 6' WIDTH X 6' HT. EACH GATE. MAJESTIC STYLE 3-RAIL.

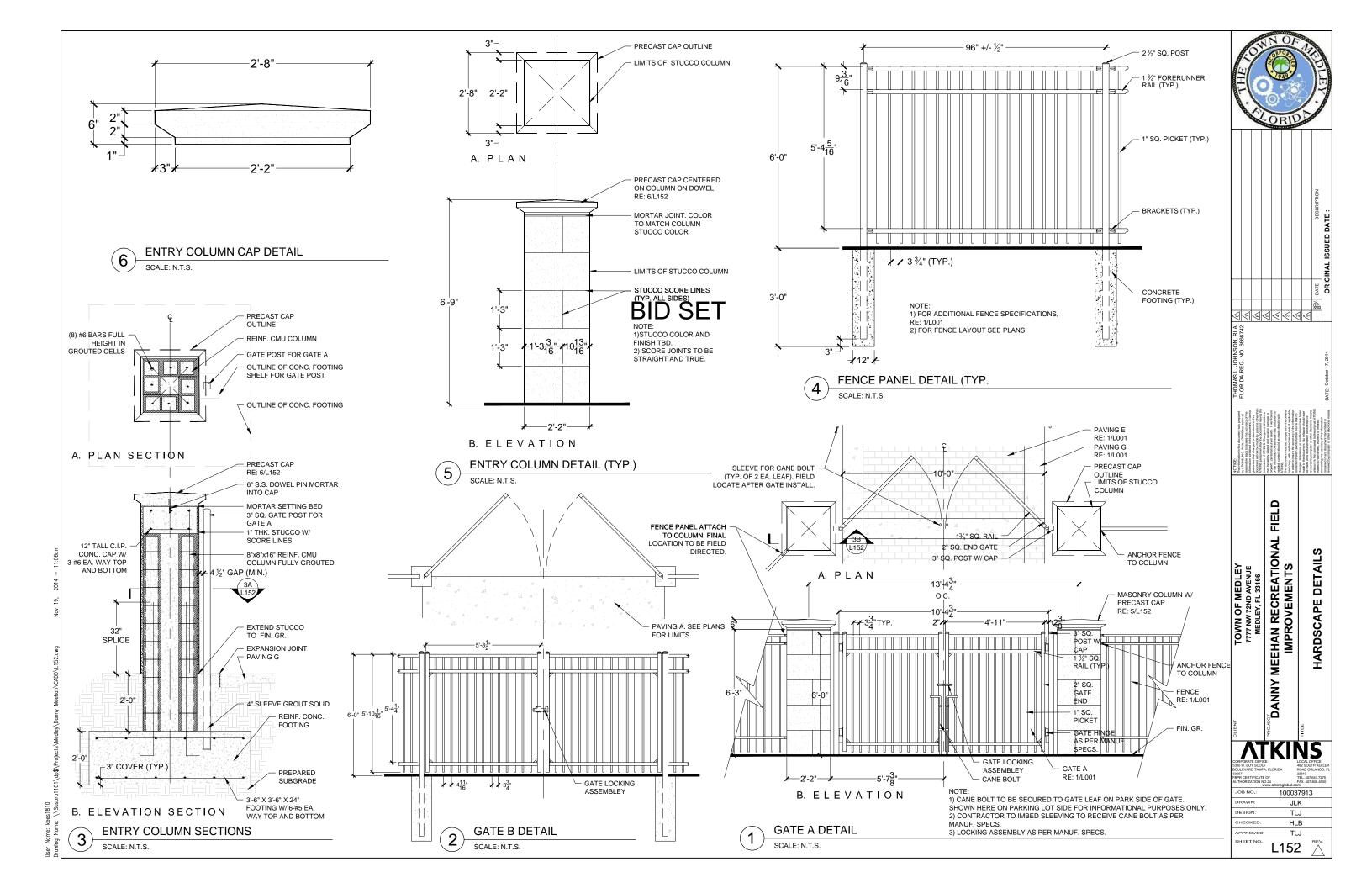
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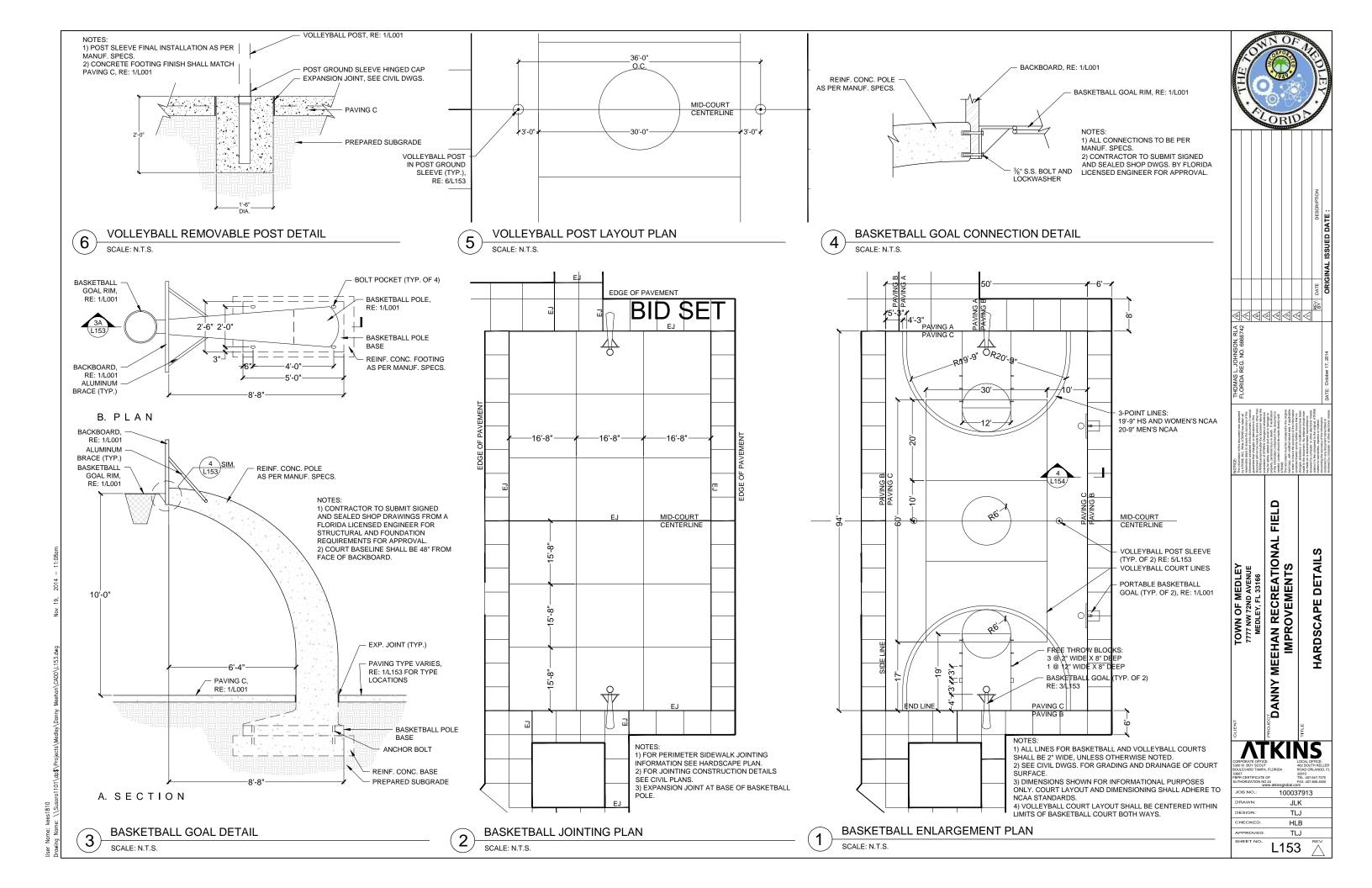
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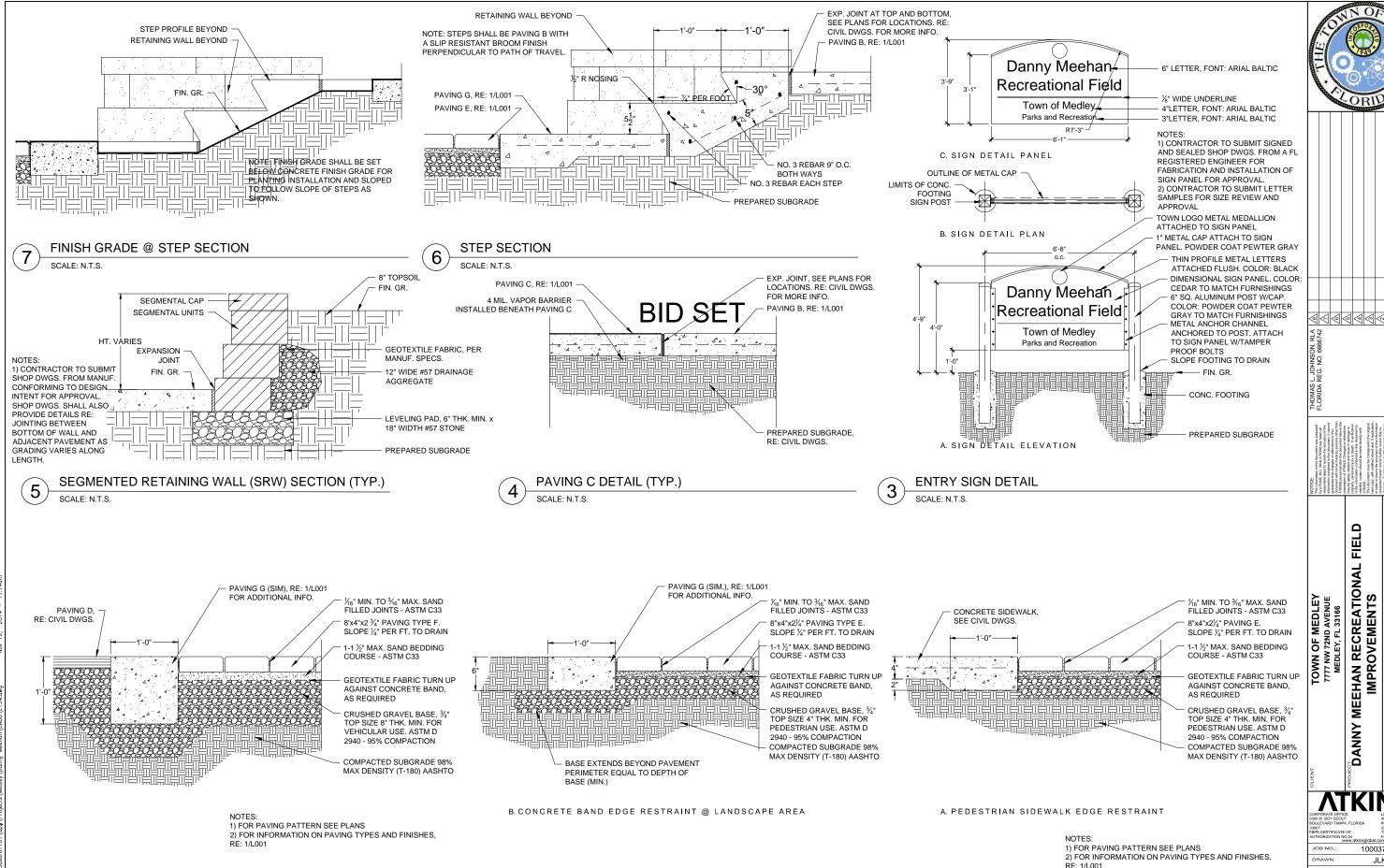
GATE B











VEHICULAR PAVING TYPE F DETAIL (TYP.) SCALE: N.T.S.

SCALE: N.T.S.

PEDESTRIAN PAVING TYPE E DETAIL (SIM.)

100037913 DESIGN TLJ HLB TLJ L154

NOTE: RAILING SHALL HAVE A POWDER COAT FINISH WITH COLOR TO MATCH PEWTER GRAY OF TYPICAL FURNISHINGS. - 1-1/2" O.D. ALUMINUM HANDRAIL - WELD JOINITS GROUND SMOOTH FOR SEAMLESS CONNECTION - 1-1/2" O.D. ALUMINUM PORT (TYP) PAVING B, RE: 1/L001 RETAINING WALL BEYOND POST (TYP.) EXP. JOINT AT TOP AND BOTTOM OF RAMP CORE-DRILLED POST SLEEVE GROUT SOLID PREPARED SUBGRADE PEDESTRIAN RAMP SECTION ELEVATION

SCALE: N.T.S.

PEDESTRIAN RAMP CROSS SECTION

EXTENDED FLOOR

PAVING B, RE: 1/L001

THICKENED EDGE CONC. VARIES, RE: GRADING PLAN FOR ELEVATIONS

→ SLOPE

WALL HT. VARIES, RE: GRADING PLAN

REQUIREMENT

1-1/2" O.D. ALUMINUM HANDRAIL

RETAINING WALL, RE:

FIN. GR.

PREPARED SUBGRADE

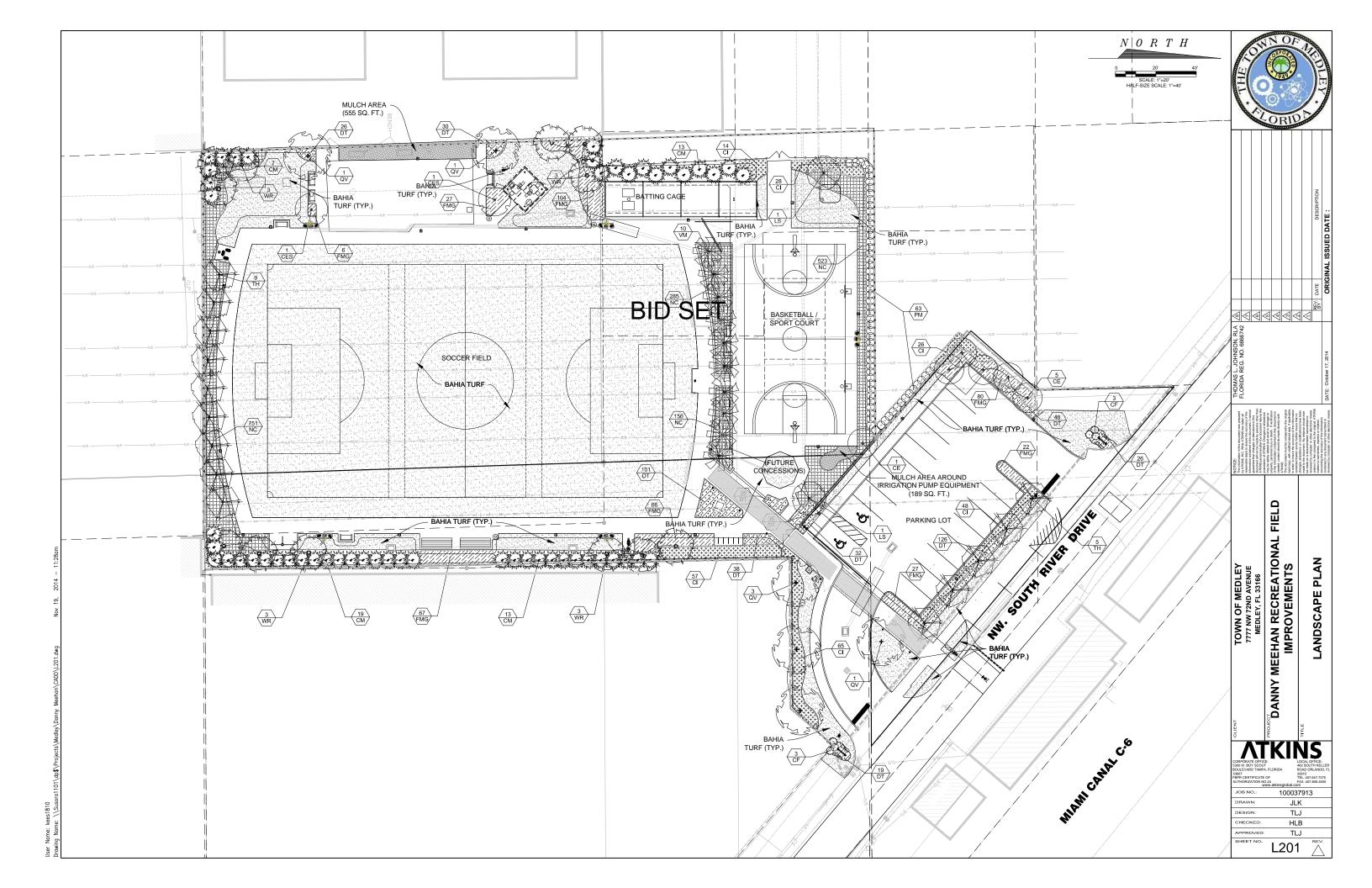
5/L154

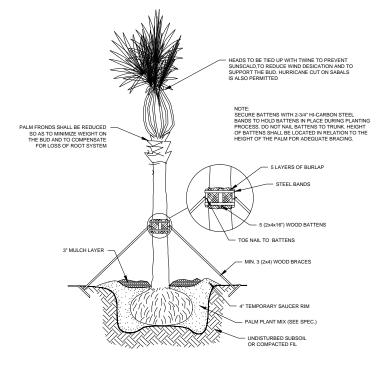
SCALE: N.T.S.

DANNY MEEHAN RECREATIONAL FIELD IMPROVEMENTS HARDSCAPE DETAILS

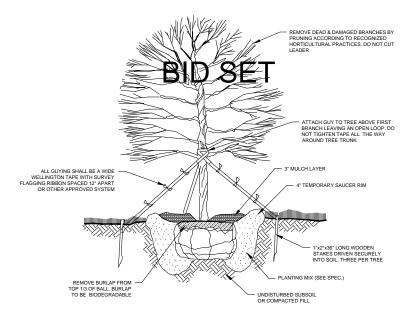
100037913 TLJ

HLB TLJ L155

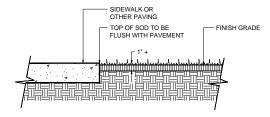




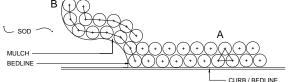
TYPICAL SINGLE TRUNK PALM PLANTING SCALE: N.T.S.



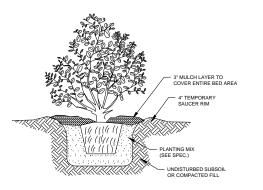
TYPICAL TREE PLANTING **(5**) SCALE: N.T.S.



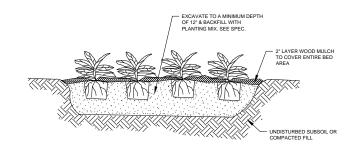
SOD PLACEMENT DETAIL SCALE: N.T.S.



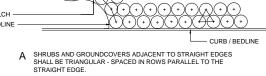
B SHRUBS AND GROUNDCOVERS ADJACENT TO CURVED EDGES SHALL BE PLANTED IN ROWS PARALLEL TO THE CURVED EDGE.



TYPICAL SHRUB PLANTING



TYPICAL GROUNDCOVER PLANTING SCALE: N.T.S.



SHRUBS AND GROUNDCOVERS SHALL BE PLANTED NO CLOSER THAN THE SPECIFIED SPACING FOR THAT SPECIES FROM THE CURB, SIDEWALK, OR BEDLINE.

3

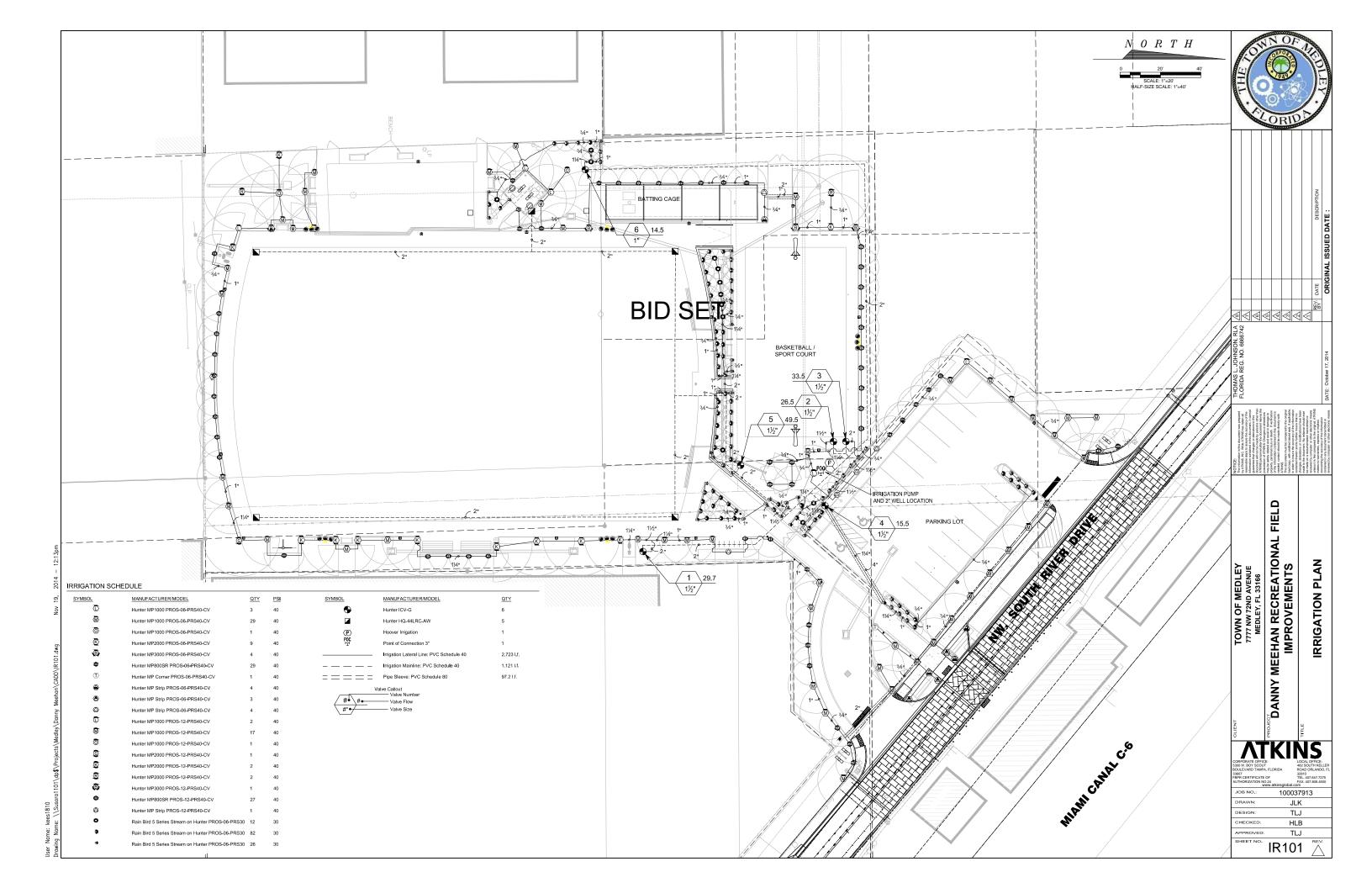
TYPICAL SHRUB & GROUNDCOVER SPACING



FIELD DANNY MEEHAN RECREATIONAL IMPROVEMENTS 100037913 JLK DESIGN: TLJ HLB

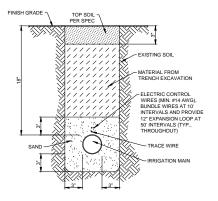
TLJ

L251



#### **ROTARY & BUBBLER NOZZLE** ON 6" SPRAY BODY INSTALLATION

SCALE: N.T.S.



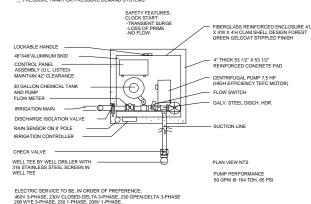
#### TRENCHING DETAIL

SCALE: N.T.S.

OTE:
SUCTION PIPE SHALL BE SCHED 40 GALVANIZED STEEL WITH GALVANIZED ROLL GROOVE FITTINGS FROM THE PUMP TI
THE WELL TEE. CHECK VALVES 3° AND LARGER SHALL BE SWING TYPE, 2° AND SMALLER SHALL BE POPPET STYLE.
MAXIMUM PERTUAL LIFT FROM WELL PUMPING LEVEL TO PUMP PAGE LEVATION IS 10′.
PROVIDE MINIMUM OF 4′ CLEARANCE ON ALL SIDES OF PUMP SYSTEMS

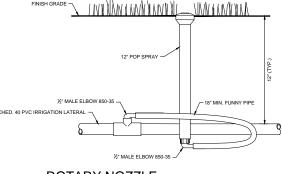
OPTIONAL FEATURES ARE INCLUDED IF MARKED WITH AN "X" PRESSURE CONTROL VALVE

HUNTER PRO C IRRIGATION CONTROLLER 15 STATIONS WITH RAIN SENSOR ON 8' POLE PRESSURE TANK FOR PRESSURE DEMAND SYSTEMS



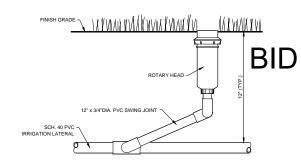
HOOVER PUMPING MODEL: HCF-7.5CS-230/3-C.E-15.M.W.Z

TOWN OF MEDLEY DANNY MEEHAN PARK CENTRIFUGAL PUMP SYSTEM DETAIL FIBERGLASS ENCLOSED SINGLE WELL SUCTION **CLOCK START** 



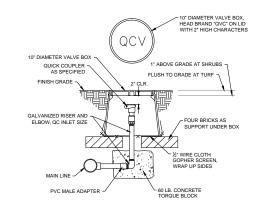
#### ROTARY NOZZLE ON 12" SPRAY BODY INSTALLATION

SCALE: N.T.S.

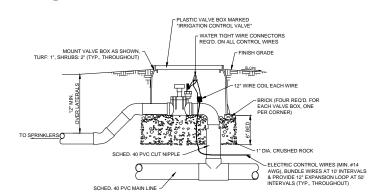


#### FIELD ROTOR INSTALLATION

SCALE: N.T.S.



#### QUICK COUPLER VALVE INSTALLATION SCALE: N.T.S.



# IRRIGATION VALVE INSTALLATION

SCALE: N.T.S.

#### **IRRIGATION NOTES:**

- THE IRRIGATION CONTRACTOR SHALL BE CERTIFIED BY THE IRRIGATION
   ASSOCIATION AND SHALL BE ON SITE TO DIRECT ALL IRRIGATION CONSTRUCTION
- 2. ALL MATERIALS FOR THIS PROJECT SHALL BE NEW. NO SUBSTITUTIONS WILL BE ALLOWED WITHOUT PRIOR APPROVAL BY THE PROJECT ENGINEER.
- 3 PLANS ARE SHOWN SCHEMATICALLY FOR GRAPHIC CLARITY ALL FOLLIPMENT SHALL BE INSTALLED IN PERVIOUS AREA (EXCEPT FOR SLEEVING) AND WITHIN THE RIGHT OF WAY.
- 4. ALL IRRIGATION COMPONENTS AND THEIR INSTALLATION SHALL BE IN ACCORDANCE WITH LOCAL CODES, CONTRACT DRAWINGS, MANUFACTURER RECOMMENDATIONS AND CONTRACT SPECIFICATIONS.
- 5. THE QUANTITIES ARE SUMMARIZED FOR THE CONVENIENCE OF THE CONTRACTOR AND OF THE ENGINEER. THE IRRIGATION SYSTEM IS A LUMP SUM BID ITEM ALL INCLUSIVE OF LABOR AND MATERIALS REQUIRED FOR A COMPLETED AND TOTALLY FUNCTIONAL, 100% COVERAGE IRRIGATION SYSTEM, INCLUDING WATER AND ELECTRICAL SERVICE CONNECTIONS.
- 6. THE PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED PRIOR TO START OF CONSTRUCTION.
- 7. NO EXCAVATION SHALL TAKE PLACE UNTIL ALL EXISTING UTILITIES HAVE BEEN LOCATED ON SITE. CONTACT SUNSHINE STATE ONE CALL, TELEPHONE NUMBER 811, AND THE PUBLIC WORKS DEPARTMENT TWO BUSINESS DAYS PRIOR TO
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS FOR THE PLIMP REQUIRED FOR THE PROPOSED IRRIGATION SYSTEM THE FINALIZED PUMP LOCATION SHALL BE IN CLOSE PROXIMITY TO THE LOCATION PROVIDED IN THE IRRIGATION PLANS AND SHALL BE APPROVED BY THE MAINTAINING AGENCY PRIOR TO CONSTRUCTION.

SE 9.720NE LINES ARE DESIGNED TO PERFORM AT 30 PSI AT THE LAST HEAD FOR BUBBLER AND SPRAY ZONES AND 60 PSI AT THE LAST HEAD FOR ROTOR ZONES.

APPROPRIATE PRESSURE REGULATING ITEMS SHALL BE INSTALLED AS NOTED IN

- 10. ZONE LINE PIPING SHALL BE SCHEDULE 40 PVC PLASTIC PIPE OR APPROVED
- 11. THE IRRIGATION MAIN LINE SHALL BE SCHEDULE 80 PVC INSTALLED 18" BELOW THE FINISHED GRADE OF MEDIANS AND 36" BELOW FINISHED GRADE OF ROADWAY. FINISHED GRADE SHALL BE 2" BELOW TOP OF CURB, ADJACENT PAVEMENT, AND/OR SURROUNDING GROUND.
- 12. IRRIGATION SLEEVE PIPING SHALL BE SCHEDULE 80 PVC FOR TRENCHES AND DR17 (100PSI) HDPE PIPE FOR DIRECTIONAL BORE ACTIVITIES. SLEEVE SHALL BE NO LESS THAN TWICE THE DIAMETER OF THE PIPE TO BE SET IN IT.
- 13. IRRIGATION LINES AND FITTINGS SHALL BE SOLVENT WELDED WITH E-2 WELD BLUE GLUE WITH WELD-ON P70 PURPLE PRIMER, OR APPROVED EQUALS

- 14. ALL VALVES, FILTERS, GAUGES, ETC., SHALL BE ENCLOSED IN APPROVED VALVE BOXES OF APPROPRIATE SIZE. THESE ITEMS MUST BE EASILY ACCESSIBLE FOR SERVICING AND MAINTENANCE AFTER INSTALLATION OF THE LANDSCAPING.
- 15. INCLUDE INSTALLATION OF 'TRACE WIRE' ALONG THE MAINLINE
- 16. IRRIGATION CONTROL WIRE SHALL BE THERMOPLASTIC SOLID COPPER. SINGLE CONDUCTOR, LOW VOLTAGE, #12 IRRIGATION CONTROL WIRE AND #10 WHITE COMMON WIRE SUITABLE FOR DIRECT BURIAL AND CONTINUOUS OPERATION AT RATED VOLTAGES. MAKE ELECTRICAL CONNECTIONS WITH IRRIGATION GRADE, WATERPROOF CONNECTORS. NUMBER WIRES IN ALL VALVE BOXES, JUNCTION BOXES AND AT THE CONTROLLER. PROVIDE TWO EXTRA SPARE WIRES TO THE LAST VALVE IN EACH DIRECTION.
- 17. FLUSH ALL LINES FOR A MINIMUM OF TEN MINUTES.
- 16. AFTER THE SATISFACTORY COMPLETION OF THE MAIN, AND BEFORE BACKFILLING, THE MAIN SHALL BE FILLED WITH WATER AND TESTED FOR PRESSURE AT THE WORKING PRESSURE WITH GAUGES AT OPPOSITE ENDS OF THE SYSTEM. MONITOR FOR TWO HOURS. THERE CAN BE NO PRESSURE LOSS. ALSO EACH ZONE SHALL BE VISUALLY TESTED FOR LEAKAGE.
- 17. IRRIGATION SYSTEM SHALL BE OPERABLE FOR A MINIMUM OF 48 HOURS PRIOR TO THE LAYING OF SOD. GROUND SHALL BE THOROUGHLY SATURATED PRIOR TO
- 18. IF ANY COMPONENT OF THE IRRIGATION SYSTEM IS BROKEN DURING CONSTRUCTION, THE IRRIGATION CONTRACTOR WILL BE NOTIFIED IMMEDIATELY. THE IRRIGATION CONTRACTOR SHALL IMMEDIATELY MAKE ALL NECESSARY REPAIRS TO THE IRRIGATION SYSTEM. THE CONTRACTOR SHALL BE AWARE OF ANY EXISTING IRRIGATION SYSTEMS WITHIN THE PROJECT AREA AND ENSURE THAT NO EXISTING IRRIGATION SYSTEMS WILL BE DAMAGED. ANY DAMAGE TO AN EXISTING IRRIGATION SYSTEM SHALL BE FULLY REPAIRED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE FULLY COMPENSATED FOR SUCH REPAIRS BY THOSE RESPONSIBLE FOR THE DAMAGE.
- 17. AT THE PRE-CONSTRUCTION MEETING THE CONTRACTOR SHALL PROVIDE: - CUT SHEETS OF ALL IRRIGATION EQUIPMENT TO BE PROVIDED - A UNIT COST BREAKDOWN OF PROPOSED IRRIGATION MATERIALS TO BE INSTALLED - AN INSTALLATION SCHEDULE FOR ALL IRRIGATION EQUIPMENT AT EACH
  - AREA OF THE SITE
- 18. BEFORE THE IRRIGATION IS ACCEPTED THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND ORGANIZING AN OPERATIONAL TRAINING SESSION WITH TOWN STAFF IN THE FILED. THIS MEETING WILL INFORM THE TOWN'S MAINTENANCE STAFF OF THE SYSTEM COMPONENTS AND FUNCTIONALITY.
- 19. UPON PROJECT ACCEPTANCE THE CONTRACTOR SHALL PROVIDE COPIES OF THE OPERATION MANUAL, MAINTENANCE SCHEDULES, WARRANTIES, AS-BUILTS. IRRIGATION WELL PERMITS AND CONDITIONS, AND ANY OTHER PERTINENT INFORMATION ABOUT THE SYSTEM.

IRRIGATION SC	HEDULE								
SYMBOL	MANUFACTURER/MODEL	QTY	ARC	<u>PSI</u>	<u>GPM</u>	RADIUS	SYMBOL	MANUFACTURER/MODEL	QTY
₾	Hunter MP1000 PROS-06-PRS40-CV	3	210-270	40		14'	•	Hunter ICV-G 1"	1
₩	Hunter MP1000 PROS-06-PRS40-CV	29	45-210	40		14'	•	Hunter ICV-G 1-1/2"	5
枣	Hunter MP1000 PROS-06-PRS40-CV	1	360	40	0.75	14'		Hunter HQ-44LRC-AW 1"	5
ـ	Hunter MP2000 PROS-06-PRS40-CV	9	45-210	40		19'	P	Hoover Irrigation	1
➂	Hunter MP3000 PROS-06-PRS40-CV	4	45-210	40		30'	POC	Point of Connection 3"	1
•	Hunter MP800SR PROS-06-PRS40-CV	29	90-210	40		10'		Irrigation Lateral Line: PVC Schedule 40 3/4"	1,555 l.f.
⊕	Hunter MP Corner PROS-06-PRS40-CV	1	Adj	40		13'		Irrigation Lateral Line: PVC Schedule 40 1"	493,5 l.f.
<b>⊕</b>	Hunter MP Strip PROS-06-PRS40-CV	4	LCS	40	0.22	5'x15'		Irrigation Lateral Line: PVC Schedule 40 1 1/4"	545.8 l.f.
	Hunter MP Strip PROS-06-PRS40-CV	3	RCS	40	0.22	5'x15'		Irrigation Lateral Line: PVC Schedule 40 1 1/2"	55.1 l.f.
	Hunter MP Strip PROS-06-PRS40-CV	4	SST	40	0.44	5'x30'		Irrigation Lateral Line: PVC Schedule 40 2"	73.7 l.f.
•	Hunter MP1000 PROS-12-PRS40-CV	2	210-270	40		14"		Irrigation Mainline: PVC Schedule 40 2"	1,121 l.f.
W	Hunter MP1000 PROS-12-PRS40-CV	17	45-210	40		14'	======	Pipe Sleeve: PVC Schedule 80 2"	43.3 l.f.
<u></u>	Hunter MP1000 PROS-12-PRS40-CV	1	360	40	0.75	14'	======	Pipe Sleeve: PVC Schedule 80 4"	53.9 l.f.
<u>©</u>	Hunter MP2000 PROS-12-PRS40-CV	1	210-270	40		19'	Va	alve Callout —— Valve Number	
<b>®</b>	Hunter MP2000 PROS-12-PRS40-CV	2	45-210	40		19'	# # # -	Valve Flow	
®	Hunter MP2000 PROS-12-PRS40-CV	2	360	40	1.47	19'	#"•	Valve Size	
₿	Hunter MP3000 PROS-12-PRS40-CV	1	45-210	40		30'			
•	Hunter MP800SR PROS-12-PRS40-CV	27	90-210	40		10'			
<b>\times</b>	Hunter MP Strip PROS-12-PRS40-CV	1	SST	40	0.44	5'x30'			
0	Rain Bird 5 Series Stream on Hunter PROS-06-PRS30	12	360	30	1.50	5'			
•	Rain Bird 5 Series Stream on Hunter PROS-06-PRS30	82	180	30	1.00	5'			
Ф-	Rain Bird 5 Series Stream on Hunter PROS-06-PRS30	26	90	30	0.50	5'			

THE QUANTITIES SHOWN ARE APPROXIMATE. SOME QUANTITIES WILL VARY BY METHOD OF INSTALLATION, ALL METHODOLOGY WILL BE WITH THE APPROVAL OF THE ENGINEER.

THE QUANTITIES ARE SUMMARIZED FOR THE CONVENIENCE OF THE CONTRACTOR AND OF THE ENGINEER. THE IRRIGATION SYSTEM IS A LUMP SUM BID ITEM ALL INCLUSIVE OF LABOR AND MATERIALS REQUIRED FOR A COMPLETED AND TOTALLY FUNCTIONAL 100% COVERAGE IRRIGATION SYSTEM, INCLUDING WATER AND FPL SERVICE CONNECTION.



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IR151

DESIGN

IRRIGATION PUMP DETAIL

SCALE: N.T.S.

SCOPE OF ELECTRICAL WORK NOTES:

ELECTRICAL CONTRACTORS ARE ADVISED THAT THIS PROJECT SHALL BE BID INTO (2) TWO SEPARATE

OWNER ELECTRICAL CONTRACTOR (OEC) PROVIDED AND/OR INSTALLED ELECTRICAL WORK. 2. SITE ELECTRICAL CONTRACTOR (SEC) PROVIDED AND/OR INSTALLED ELECTRICAL WORK

OWNER ELECTRICAL CONTRACTORS (OEC) SCOPE OF WORK:

- COORDINATION WITH MUSCO LIGHTING, INCLUDING BUT NOT LIMITED TO, UNLOADING, ASSEMBLING, AND INSTALLING ALL MUSCO FURNISHED CONTACTOR CONTROL CABINETS, POLES AND FIXTURES (INCLUDING LAMPS).

  PROVIDE INSTALLATION, BRANCH CONDUCTORS, AND ALL FINAL CONNECTIONS TO ALL MUSCO
- FURNISHED CONTACTOR CONTROL CABINETS, POLES AND FIXTURES (INCLUDING LAMPS). BALL FILLD LIGHTING BRANCH CIRCUIT CONDUCTORS SHALLBE RUN THE ENTIRE LENGTH FROM MUSCO BALLAST BOX TO FIELD LIGHTING BRANCH CIRCUIT BREAKER VIA MUSCO LIGHTING CONTROL
- PROVIDE CONDUIT AND FITTINGS FROM HANDHOLE AT BASE OF MUSCO LIGHTING POLE TO MUSCO
- PROVIDE CONDUIT AND FITTINGS FROM STUBBED UP CONDUIT INTO MUSCO LIGHTING CONTROL CABINET.
- 5. INSTALL MUSCO FURNISHED LIGHTING CONTROL CABINETS IN LOCATION DEDICATED BY SEC. OEC SHALL FURNISH AND INSTALL BRANCH CIRCUIT CONDUIT AND CONDUCTORS BETWEEN SERVING PANELS AND MUSCO LIGHTING CONTROL CABINETS.

SITE ELECTRICAL CONTRACTOR (SEC) SCOPE OF WORK:

- RESPONSIBLE FOR ALL ELECTRICAL WORK ASSOCIATED WITH THE SITE ELECTRICAL DRAWINGS WITH THE EXCEPTION OF BALL FIELD LIGHTING AS OUTLINED IN THE OFC'S SCOPE OF WORK ABOVE.
  WORK SHALL INCLUDE, BUT NOT LIMITED TO, TRENCH AND BACKFILL, CONDUIT, AND CONDUCTORS.
  FURNISH AND INSTALL ALL FLUSH WITH GRADE MOUNTED PULLBOXES, INCLUDING BUT NOT LIMITED
- E. FURNISH AND INSTALL ALL FLUSH WITH GRADE MOUNTED PULLBOXES, INCLUDING BUT NOT LIMITED TO PULLBOXES AS RELATED TO BALL FIELD (MUSCO) LIGHTING.

  RESPONSIBLE FOR ALL TRENCH, BACKFILL, BRANCH CONDUITS, INCLUDING BUT NOT LIMITED TO UNDERGROUND CONDUIT FOR MUSCO LIGHTING. CONDUIT SHALL BE STUBBED UP, MARKED, AND CAPPED AT 5'-O" AFG UNDER SPACE DEDICATED FOR MUSCO LIGHTING CONTROL CABINET TO HANDHOLE AT THE BASE OF MUSCO LIGHTING POLE.

  FURNISH AND INSTALL ALL GEAR AS SHOWN ON SHEET E-300.

  FURNISH AND INSTALL ALL GEAR AS SHOWN ON SHEET E-300.

  FURNISH AND INSTALL ALL SITE PARKING AND PATHWAY LIGHTING AND BRANCH CIRCUITING.

  COORDINATE ALL WORK WITH UTILITY COMPANIES PRIOR TO BID. CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH UTILITY WORK. SEC SHALL BE RESPONSIBLE FOR VERIFYING EXACT UTILITY TERMINATION POINTS AND INCLUDE COSTS IN BID.

  FURNISH AND INSTALL ALL UTILITY CONDUITS AND CONDUCTORS. CONDUCTORS SHALL BE RUN THE ENTIRE LENGTH WITHOUT SPLICES.

- PROVIDE SEPARATE PRICING FOR ANY CONTIBUTION-IN-AID (CIA) FOR ANY UTILITY COMPANY
- COORDINATE PANEL LOCATIONS AND LIGHTING CONTROL PANEL LOCATIONS WITH OEC. SEC SHALL VERIFY DIMENSIONS OF GEAR TO BE FURNISHED AND INSTALLED BY OTHERS AND PROVIDE

THE FOLLOWING IS EXCLUDED AND SHALL BE PROVIDED BY OTHER DISCIPLINES AS DETERMINED BY THE

- ACCESS TO ALL SITE AND BALL FIELD POLE LOCATIONS.
   REPAIR OF SOD, SIDEWALKS, ASPHALT, LANDSCAPING, AND/OR UTILITIES.

- 2. REMOVAL OF DRILLING SPOILS, TRASH, AND/OR DEBRIS.

  4. WATER SOURCE SUCH AS A FIRE HYDRANT OR MAIN WATER LINE.

  5. SURVEYED SITE AND BALL FIELD POLE LOCATIONS WITH BALL FIELD AIMING POINTS. ALL SURVEY WORK SHALL BE PROVIDED BY ONE SURVEYOR ONLY.

BOLLARD LIGHT FIXTURE

- FINISHED GRADE

(SIMILAR)

-6" MIN.

CONCRETE BASE

	LIGHTING FIXTURE SCHEDULE										
TYPE	MANUFACTURER	CATALOG NO.	MOUNTING	VOLT	LAMP	REMARKS	INPUT WATTS				
SA	PHILLIPS GARDCO	ECF-1-3-105LA-321A-NW-UNV-COLOR BY ARCHITECT-IS	POLE MOUNTED 25'-0" AFG	277	LED WITH FIXTURE	4000K, 70CRI, LED POLE MOUNTED FIXTURE, VERIFY FINISH. TYPE III DISTRIBUTION. SEE DETAIL THIS SHEET.	107				
SA POLE	USI	USI34TIIH15-56 W/2&3/8 TENON - COLOR BY ARCHITECT.	DIRECT BURIAL	-		34' SQUARE TAPERED DIRECT BURIAL CONCRETE POLE BURRIED 7' BFG MINIMUM.					
SB	PHILLIPS GARDCO	BR842-42-CWL-NW-180-18-UNV-COLOR BY ARCHITECT	CONCRETE BASE FLUSH WITH GRADE	277	LED WITH FIXTURE	42" AFG, 4000K, 75CRI, ROUND FULL CUTOFF LED BOLLARD. 180 DEGREE DISTRIBUTION. AIM TOWARD WALKWAY.	18				
sc	PHILLIPS GARDCO	ECF-1-2-55LA-3253-NW-UNV-COLOR BY ARCHITECT	POLE MOUNTED 12'-0" AFG	277	LED WITH FIXTURE	4000K, 70CRI, LED POLE MOUNTED FIXTURE, VERIFY FINISH. TYPE II DISTRIBUTION. SEE DETAIL THIS SHEET.	52				
SC POLE	USI	USI19TIIH15-56 W/2&3/8 TENON - COLOR BY ARCHITECT.	DIRECT BURIAL	-		19' SQUARE TAPERED DIRECT BURIAL CONCRETE POLE BURRIED 5' BFG MINIMUM.					
SD	PHILLIPS GARDCO	ECF-1-5-55LA-3253-NW-UNV-COLOR BY ARCHITECT	POLE MOUNTED 12'-0" AFG	277	LED WITH FIXTURE	4000K, 70CRI, LED POLE MOUNTED FIXTURE, VERIFY FINISH. TYPE V DISTRIBUTION. SEE DETAIL THIS SHEET.	52				
SD POLE	USI	USI19TIIH15-56 W/2&3/8 TENON - COLOR BY ARCHITECT.	DIRECT BURIAL	-		19' SQUARE TAPERED DIRECT BURIAL CONCRETE POLE BURRIED 5' BFG MINIMUM.					
А	INSIGHT	WF6-EAS-18-TA(D)-T8324'-2-COLOR BY ARCHITECT-WVS-PL	ARM MOUNTED 18" ARM	277	(2) 32W T8	4' LINEAR SIGN LIGHT WITH SOLID VISOR AND PRISMATIC ACRYLIC LENS	62				
В	BEGHELLI	BS100T8-4-HT-232W-120/277V-DPK-TP- OL	6" DOUBLE PENDANT MOUNT	120	(2) 32W T8	WEATHERPROOF VAPORTITE FIXTURE.	62				

- NOTE:

  1. FURNISH AND INSTALL FUSES IN ALL FIXTURES. LOCATE FUSES AT POLE HANDHOLE.

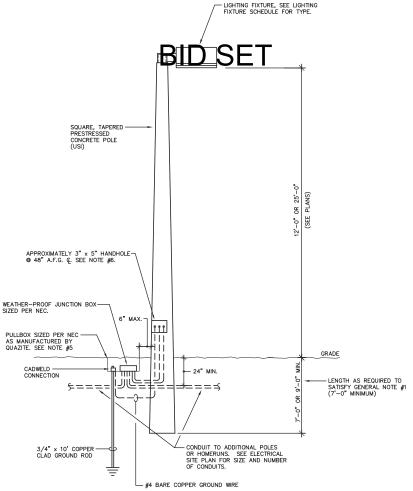
  2. CONTRACTOR SHALL FURNISH AND INSTALL COMPLETE IN ALL RESPECTS ALL ITEMS LISTED NO SUBSTITUTIONS.

  3. THE CONTRACTOR SHALL SUBMIT CATALOG CUTS OF ALL THE FIXTURES TO THE ENGINEER FOR APPROVAL.

  4. ALL FIXTURES SHALL BE FURNISHED WITH BIRD DETERRENT WIRES.

  5. ALL FIXTURES SHALL BE CLEAN AT THE TIME OF FINAL INSPECTION.

  6. ALL FIXTURES SHALL BE FURNISHED WITH A (10) YEAR FACTORY WARRANTY. SUBMIT WARRANTY WITH CATALOG CUTS.

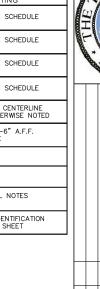


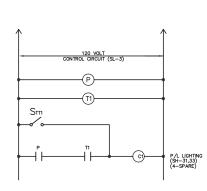
# SITE FIXTURE POLE DETAIL

N.T.S.

- 1. CONTRACTOR TO SUBMIT DESIGN WIND LOAD CALCULATIONS CERTIFYING CONFORMANCE OF POLE ASSEMBLY AS DICTATED BY THE 2011 FLORIDA BUILDING CODE. EACH CALCULATION SHALL BE SIGNED AND SEALED BY A STATE OF FLORIDA LICENSED STRUCTURAL ENGINEER.
- FURNISH AND INSTALL BUSSMAN "TRON" TYPE "HEB" IN-LINE WATERPROOF FUSE HOLDERS. FUSE WITH BUSSMAN TYPE "FNM" FUSES, FUSED AT 1.0A. LOCATE FUSES IN POLE HAND HOLE.
- 3. COORDINATE ALL WORK WITH CIVIL AND LANDSCAPE SITE PLANS.
- 4. POLES SHALL BE FACTORY EQUIPPED WITH GROUNDING STUDS. EQUIPMENT GROUNDING CONDUCTOR SHALL BE BONDED TO THE GROUND STUD.
- 5. PULLBOX MANUFACTURED BY QUAZITE W/15.000 LBS DESIGN LOAD TO HAVE HEAVY-DUTY COPOLYMER FULL D.O.T. TRAFFIC RATED HANDHOLE WITH COVER (COVER TO READ "ELECTRICAL"). FURNISH AND INSTALL GRAVEL (1FT.) IN BOTTOM OF PULLBOX FOR DRAINAGE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- ROUTE CONDUIT CONTINUOUS THRU POLE ASSEMBLY AND TERMINATE WITH INSULATION BUSHING AT HAND-HOLE WINDOW.

	ELECTRICAL SYMBOL LEGE	END
SYMBOL	DESCRIPTION	MOUNTING
1	SINGLE POLE MOUNTED LIGHT FIXTURE	SEE FIXTURE SCHEDULE
·	SINGLE POLE MOUNTED LIGHT FIXTURE	SEE FIXTURE SCHEDULE
	4' LINEAR FLUORESCENT FIXTURE	SEE FIXTURE SCHEDULE
0	BOLLARD	SEE FIXTURE SCHEDULE
Φ	DUPLEX RECEPTACLE (20A., 125V.)	M.H. 18" TO CENTERLINE UNLESS OTHERWISE NOTED
	POWER PANELBOARD	SURFACE 6'-6" A.F.F. TO TOP MAX
'GFI'	DENOTES GROUND FAULT INTERRUPTER TYPE RECEPTACLE.	
WP	'WP' DENOTES WEATHERPROOF IN-USE COVER	
L1A-1,3	HOMERUN TO PANEL, LETTERS INDICATE PANEL, NUMBERS INDICATE CIRCUIT.	SEE GENERAL NOTES
# #	SITE LIGHTING POLE #. '##' INDICATES POLE NUMBER.	SEE POLE IDENTIFICATION DETAIL THIS SHEET





 $\begin{array}{lll} S_{TTI} = & 0-2\text{HR. TWST-TIMER FOR PHOTOCELL/TIMECLOCK OVERRIDE.} \\ & \text{LABEL "PHOTOCELL/TIMECLOCK OVERRIDE". LABEL "P/L LTG."} \\ P & = & 120V \ \text{PHOTOCELL, TORK OR INTERMATIC. MOUNT ON } 3/4" \\ & \text{RGS } 6" \ \text{ABOVE TOP OF POST.} & \text{AIM NORTH.} \end{array}$ 

= ASTRONOMICAL, 120V TIMECLOCK. TORK OR INTERMATIC. 11 = ASTRONOMICAL, 120V TIMECLOCK, TORK OR INTERMATIC.
C1 = 30A FULLY-RATED, 6-POLE NORMALLY OPEN ELECTRICALLY
HELD LIGHTING CONTACTOR WITH 120 VOLT HOLDING COIL.
SQUARE-D TYPE 8903.

# <u>SITE LIGHTING CONTROL PANEL DIAGRAM - 'LCP'</u>

LIGHTING CONTROL GENERAL NOTES:

- 1. LIGHT CONTROL SHALL BE PHOTOCELL "ON", TIMECLOCK "OFF".
- 2. MOUNT ALL COMPONENTS SHOWN IN A NEMA 3R ENCLOSURE, U.L. 50 LABELED. ARRANGE ENCLOSURE TO HOUSE ALL COMPONENTS SHOWN, SUBMIT DIMENSIONED DETAIL OF ENCLOSURE SHOWING PLACEMENT OF TERMINAL STRIPS, TIMECLOSKS, LICHTING CONTACTORS AND TWIST-TIMERS TO THE ELECTRICAL ENGINEER FOR APPROVAL.
- LAMINATE ONE COPY OF THIS DETAIL AND SECURE IT TO THE INSIDE DOOR OF THE ENCLOSURE.
- 4. MOUNT CONTACTOR ENCLOSURE ADJACENT TO PANEL 'SH'



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22010

RJ/RBJ

RBJ

RBJ

E-100

ESIGN:

HECKED:

**BOLLARD MOUNTING DETAIL** 

(4) 3/8" ANCHOR BOLTS W/ #16 HEX HEAD BOLTS

FASTEN WITH NON-REVERSABLE -STAINLESS STEEL SCREWS AND POLE IDENTIFICATION DETAIL

POLE #

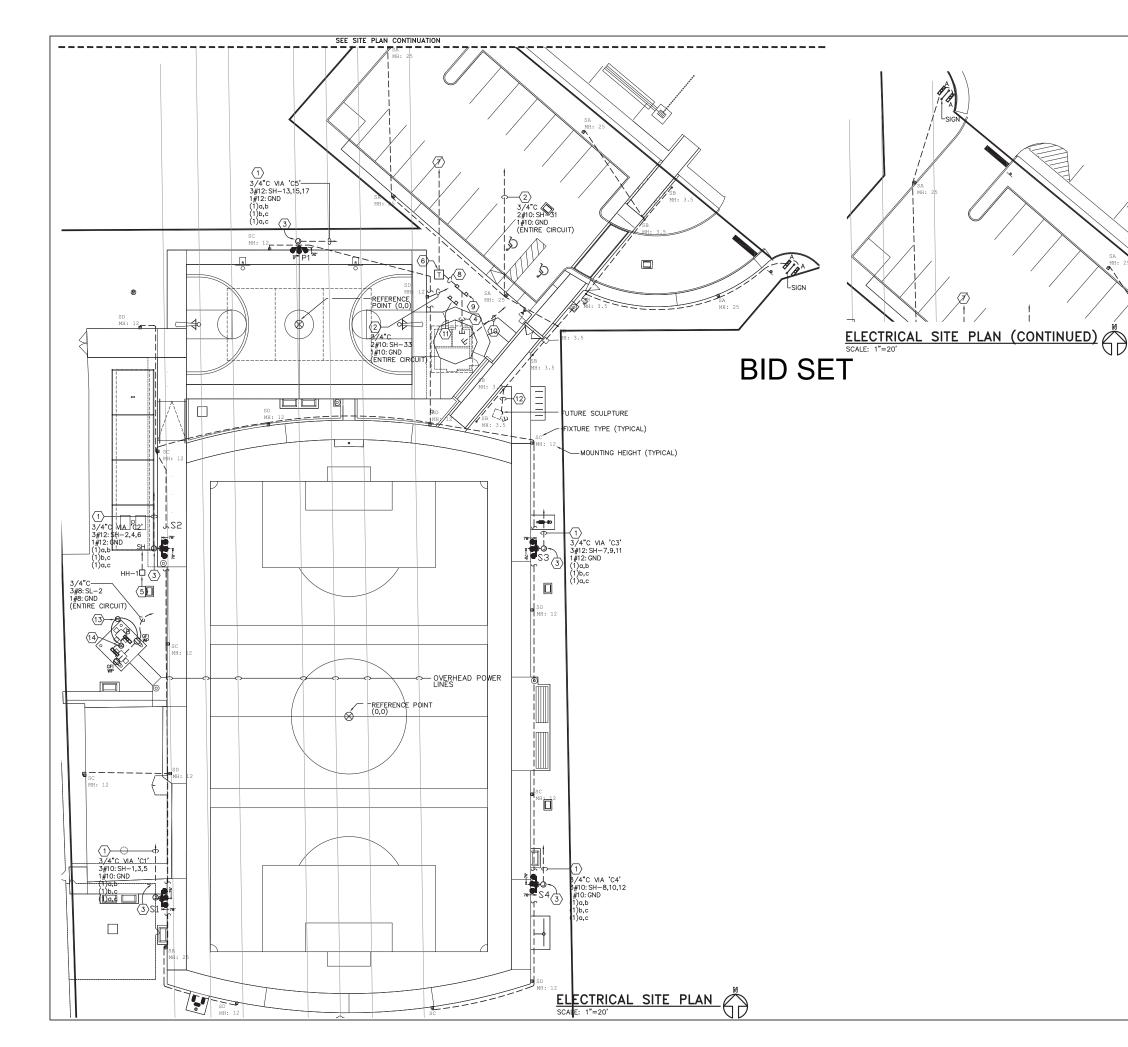
PANEL &

NOTE: FURNISH AND INSTALL ALL ALUMINUM IDENTIFICATION TAG ON EACH POLE MOUNTED LIGHTING STANDARD. TAGS SHA

BE 2"x 8" IN SIZE WITH BLACK LETTERS ON YELLOW BACKGROUND

0

0



#### GENERAL NOTES:

- CONTRACTOR TO ROUTE ALL UNDERGROUND CONDUITS AROUND BUILDING FOUNDATION, WHERE FEASIBLE.
- 2. ALL CONDUITS SHALL BE BURRIED AT 36" BGF UNLESS OTHERWISE
- 3. CONDUIT RUNS TO SHARE COMMON TRENCH WHERE FEASIBLE.
- 4. COORDINATE ALL WORK WITH CIVIL, LANDSCAPE, AND IRRIGATION PLANS.
- 5. ALL EMPTY CONDUITS SHALL BE FURNISHED WITH PULLSTRING.
- 6. ALL WORK SHALL BE COORDINATED WITH FPL REPRESENTATIVE MR. WALTER RUMIE @ 305-599-4081 OR WALTER.RUMIE@FPL.COM.
- 7. CONTRACTOR SHALL INCLUDE ANY CONTRIBUTION IN AID IMPOSED BY UTILITY COMPANIES IN HIS/HER BID.
- 8. CONTRACTOR TO PROVIDE TRAFIC RATED PULLBOXES AS/IF REQUIRED BY UTILITY COMPANY.
- 9. COORDINATE ALL UNDERGROUND ROUTING WITH UTILITIES.
- 10. REFER TO SHEET E-300 FOR PANELBOARD SCHEDULES.
- 11. REFER TO SHEET E-300 FOR SINGLE-LINE DIAGRAM.

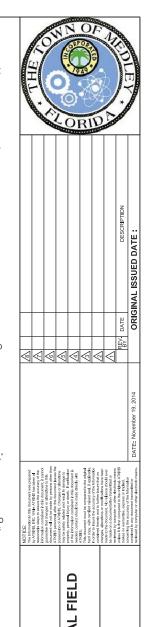
#### KEYED NOTES:

- ROUTE CONDUIT AND CONDUCTORS VIA MUSCO FURNISHED/CONTRACTOR INSTALLED FIELD LIGHTING CONTROL CABINET 'LCC'.
- ROUTE CONDUIT AND CONDUCTORS VIA SITE LIGHTING CONTROL PANEL 'LCP'. REFER TO DETAIL ON SHEET E-100.
- 3. JUNCTION BOX WITH TOP SET AT 2" A.F.G. (ALLOW FOR SOD).

  11"W x 18"L x 12"D HEAVY DUTY COPOLYMER FULL TRAFFIC RATED HANDHOLE WITH COVER. QUAZITE #PG1118BA12/PG1118HA00-17. (COVER LOGO TO READ "ELECTRICAL"). LOCATE JUNCTION BOX WITHIN 10' OF FIELD LIGHT POLE. DO NOT DIMENSION FROM DRAWINGS, USE FIELD LIGHT POLE DIMENSIONS SHOWN WITH REFERENCE POINT SHOWN FOR EACH FIELD. ONCE MUSCO FURNISHES AND INSTALLS POLE EXTEND CONDUIT AND CONDUCTORS FROM JUNCTION BOX UNDERGROUND TO POLE, UP POLE TO MUSCO FURNISHED BALLAST BOX (APPROX. 20' AFG). LEAVE SUFFICIENT CONDUCTOR AT JUNCTION BOX TO AVOID SPLICES. CONDUCTORS SHALL BE RUN CONTINUOUS FROM 'LCC' TO MUSCO FURNISHED BALLAST BOX VIA JUNCTION BOX. FINAL TERMINATION AT BALLAST BOX BY MUSCO.
- 4. 2" SECONDARY EMPTY CONDUIT WITH PULLSTRING FROM PANEL 'SL' STUBBED UP 2'-0" AFG AT FUTURE CONCESSION BUILDING FOR FUTURE POWER TO FUTURE CONCESSION BUILDING. USE LONG SWEEP ELBOWS.
- 5. JUNCTION BOX 'HH-1' WITH TOP SET AT 2" A.F.G. (ALLOW FOR SOD) FOR FUTURE POWER FOR EVENTS. 11"W  $\times$  18"L  $\times$  12"D HEAVY DUTY COPOLYMER FULL TRAFFIC RATED HANDHOLE WITH COVER. QUAZITE #FG1118BA12/PG1118HA00-17. (COVER LOGO TO READ "ELECTRICAL"). ROUTE 1" EMPTY CONDUIT WITH PULLSTRING TO PANEL 'SH'.
- 6. PROPOSED LOCATION OF FPL'S NEW PAD MOUNTED TRANSFORMER. SEE SINGLE-LINE DIAGRAM ON SHEET E-300.
- 7. (2) 4" PRIMARY CONDUITS WITH 36" LONG SWEEP ELBOWS, SEE SINGLE-LINE DIAGRAM ON SHEET E-300. BURY CONDUITS @ 42" B.F.G. MINIMUM. PROVIDE PLASTIC WARNING TAPE @ 18" B.F.G. DIRECTLY ABOVE CONDUIT. COORDINATE SPECIFIC REQUIREMENTS, ROUTING, AND TERMINATION POINT WITH FPL.
- 8. SECONDARY CONDUIT(S) AND CONDUCTORS. SEE SINGLE-LINE DIAGRAM ON SHEET E-300. BURY CONDUIT(S) @ 42" B.F.G. MINIMUM. PROVIDE PLASTIC WARNING TAPE @ 18" B.F.G. DIRECTLY ABOVE CONDUIT(S).
- APPROXIMATE LOCATION OF MAIN ELECTRICAL SERVICE, PANELS, AND LIGHTING CONTROL PANELS. SEE SINGLE-LINE DIAGRAM ON SHEET E-300.
- 10. (2) 2" CONDUITS WITH 36" LONG SWEEP ELBOWS FOR FUTURE TELEPHONE AND CABLE. BURY CONDUITS @ 36" B.F.G. MINIMUM. STUB-UP, CAP, AND MARK CONDUITS 6" AFG IN FRONT OF THE FUTURE 'TTB'. COORDINATE EXACT ROUTING AND TERMINATION POINTS WITH TELEPHONE AND CABLE COMPANIES PRIOR TO BID.
- 11. MOUNT PUMP STATION CONTROL PANEL AND DISCONNECT ON (2) 10'  $\times$  6" PRECAST CONCRETE POSTS SET 3'-0" INTO EARTH WITH A 6" DEEP CONCRETE FOOTER AT BASE OF POST. MOUNT EQUIPMENT TO POSTS WITH 3/4" UNI-STRUT. DISCONNECT TO BE A 600V/NEMA 4X/30A/3P/FUSED TO CONTROL PANEL NAMEPLATE DATA. REFER TO SINGLE—LINE DIAGRAM ON SHEET E-300.
- 12.3/4" EMPTY CONDUIT STUBBED UP AT 2'-0" AFG FOR FUTURE LIGHTING OF FUTURE SCULPTURE.
- 13.120V PHOTOCELL. ROUTE LIGHTING CIRCUIT VIA PHOTOCELL. PHOTOCELL SHALL OVERRIDE OCCUPANCY SENSOR OFF. MOUNT PHOTOCELL 6" ABOVE ROOF ON 3/4" RGS CONDUIT. AIM NORTH.
- 14.120V LINE-VOLTAGE PASSIVE INFRARED OCCUPANCY SENSOR RATED FOR WET LOCATIONS. WATT STOPPER NO. HB350W-L3. MOUNT TO BOTTOM OF STRUCTURE.



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CLENT
TOWN OF MEDLEY
TTTT NW 72ND AVENUE
MEDLEY, FL 33166

MEDLEY, FL 33166

DANNY MEEHAN RECREATIONAL FIELD
IMPROVEMENTS

TITLE

ELECTRICAL SITE PLAN

OUTGOING DESCRIPTION

TITLE

CLENT
TITLE

CLENT
TTTT NW 72ND AVENUE

MEDLEY, FL 33166

MEDLEY,

ORANTE OFFICE: LOCAL OFFICE: LOCAL OFFICE: WE NOT SOUTH KELLER NEW MOST HEADER AND THE CONTINUENCE OF TEL 407 APRIL 1970 APRIL 1970

E-200

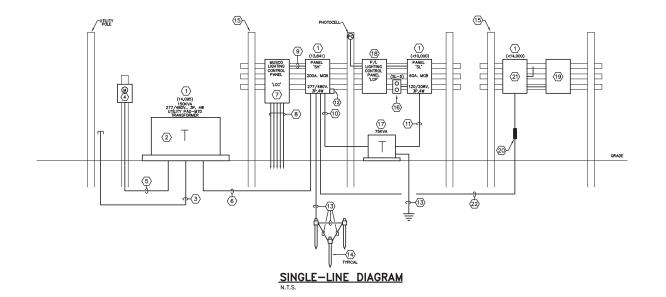
	SERVICE EN	ITRAN	CE	RATED														
	PANEL	SH		VOLTAGE	277	/ 480	V	SI	ZE	2	25A	MCB	CABINET	SURF	ACE	NE	EMA-3R	
					PHASE	3	РΗ			2	25A	BUS	RATING	14,0	00	Αŀ	C RATED	
						4	W			_		-	-			-		
		CKT.BK	R.	VAI	PHASE LO	AD		1	BU	S		VA	PHASE LO	AD	CKT.BK	R.		
NOTE	REMARKS	AMPS	Р	А	В	С	CKT.#	А	В	С	CKT.#	А	В	С	AMPS	Р	REMARKS	NOTE
	SOCCER FIELD			1776		-	1	Х	Г	П	2	1776				T	SOCCER FIELD	
	POLE 'S1'	20	3		1776	-	3	Г	X	П	4		1776		20	3	POLE 'S2'	
	VIA RELAY 'C1'					1776	5			Х	6			1776			VIA RELAY 'C2'	
	SOCCER FIELD			1776		-	7	Х			8					П	SOCCER FIELD	
	POLE 'S3'	20	3		1776	-	9		X		10		1776		20	3	POLE 'S4'	
	VIA RELAY 'C3'					1776	11			Х	12			1776			VIA RELAY 'C4'	
	BASKETBALL			1776		-	13	Х			14							
	POLE 'P1'	20	3		1776	-	15		X		16				20	3	SPARE	
	VIA RELAY 'C5'					1776	17			Х	18							
	7.5 HP PUMP			4155		-	19	Х			20					П		
	STATION	30	3		4155	-	21		X		22				30	3	SPARE	
	CONT. PANEL					4155	23			Х	24							
						-	25	Х			26					П		
	SPACE		3			-	27		Х		28					3	SPACE	
							29			Х	30							
	P/L LIGHTING	20	1	1009		-	31	Х		Ш	32				20		SPARE	
	PATH LTG	20	1		832		33	L	Х		34				20		SPARE	
	SPARE	20	1			300	35			Х	36				20	1	SPARE	
	PANEL 'SL'			10305			37	Х			38						SURGE	
	VIA 75 KVA	100	3		9800	-	39		Х		40				30	3	PROTECTIVE	
	TRANSFORMER				-	9780	41		ſ	Х	42					L	DEVICE SPD	
		TOTAL	. [	20797	20115	19563						3552	3552	3552	TOTAL			
	NOTES:																	

SPARE	20	1			300	35	Г		X	36	,			20	1	SPARE
PANEL 'SL'			10305			37	Х		П	38					Г	SURGE
VIA 75 KVA	100	3		9800		39	Г	Х	П	40				30	3	PROTECTIVE
TRANSFORMER					9780	41	Г		X	42		-				DEVICE SPD
•	TOTAL		20797	20115	19563				_		3552	3552	3552	TOTAL	_	
NOTES:																
										- [			TOTAL	DEMAN	ח	DEMAND
											TABUL	ATION	LOAD	FACTO	₹	LOAD
										- 1	N	IEASURED				
										ı		LIGHTING	29326	1.25		36657
										1		COOLING				
										- 1		HEATING				
										- 1	RE	CEPTACLE	540	1.00		540
										- 1	MISCEL	LANEOUS	28800	1.00		28800
										ı	LARGE	ST MOTOR	12465	1.25		15581
										ı	1	OTAL DEM	AND LOAD	815	579	VA
NOTE:											T	OTAL DEMA	AND AMPS	9	8.1	Α
CONTRACTOR IS RESPONSIBLE FOR UPDATING ALL PANEL SCHEDULES																

	SERVICE ENTRANCE RATED																	
	PANEL	SL		VOLTAGE	120	/ 208	٧	SI	ΖE	2	25A	мсв	CABINET	SURF	ACE	NE	EMA-3R	
				-	PHASE	3	PH			2	25A	BUS	RATING	10.0	000	ΑI	C RATED	
						4	W			_		-				-		
		CKT.BK	R.	VA	PHASE LC	AD			BU	S		VA	PHASE LC	DAD	CKT.BK	R.		
NOTE	REMARKS	AMPS	Р	А	В	С	CKT.#	A	В	С	CKT.#	А	В	С	AMPS	Р	REMARKS	NOTE
	MUSCO 'LCC'	20	1	221			1	X	Т	П	2	484			20	1	PICNIC SHELTER	
	P/L 'LCP'	20	1	-	200		3	Г	X	П	4				20	1	SPARE	
	RECEPTACLE	20	1			180				Х	6				20	1	SPARE	
	SPARE	20	1				7	Х			8				20		SPARE	
	SPARE	20	1	-			9		Х		10				20	1	SPARE	
	SPARE	20	1	-			11	Г	П	Х	12				20	1	SPARE	
	SPARE	20	1				13	X	П	П	14				20	1	SPARE	
	SPARE	20	1	-			15	Г	X	П	16				20	1	SPARE	
	SPARE	20	1	-			17	Г	Г	Х	18				20	1	SPARE	
	SPARE	20	1				19	X	П	П	20				20	1	SPARE	
	SPARE	20	1				21	Г	X	П	22				20	1	SPARE	
	SPARE	20	1	-			23	Г	Т	Х	24				20	1	SPARE	
	SPARE	20	1				25	Х	Т	П	26				20	1	SPARE	
	SPARE	20	1	-			27		X		28				20	1	SPARE	
	SPARE	20	1	-			29		Т	Х	30				20	1	SPARE	
	SPARE	20	1				31	Х	Т		32				20	1	SPARE	
	SPARE	20	1				33		X		34				20	1	SPARE	
	SPARE	20	1				35		П	Х	36				20	1	SPARE	
	FUTURE			9600			37	Х			38							
	CONCESSION	100	3		9600		39		X		40				1	3	SPACE	
	BUILDING		Ĭ			9600	41			Х	42				1			
		TOTAL		9821	9800	9780						484			TOTAL			

**BID SET** 

	TOTAL	DEMAND	DEMAND	
TABULATION	LOAD	FACTOR	LOAD	
MEASURED				
LIGHTING	545	1.25	681	
COOLING				
HEATING				
RECEPTACLE	540	1.00	540	
MISCELLANEOUS	28800	1.00	28800	
LARGEST MOTOR				
TOTAL DEM	AND LOAD	30021	VA	
TOTAL DEMA	AND AMPS	83.3	A	



CONTRACTOR IS RESPONSIBLE FOR UPDATING ALL PANEL SCHEDULES

NOTES:

#### SINGLE-LINE GENERAL NOTES:

 ALL WORK SHALL BE COORDINATED WITH FPL REPRESENTATIVE MR. WALTER RUMIE @ 305-599-4081 OR WALTER.RUMIE@FPL.COM.

#### SINGLE-LINE KEYED NOTES:

- MAXIMUM SYMMETRICAL RMS FAULT CURRENT. ALL PANELBOARDS AND BREAKERS SHALL BE CAPABLE OF WITHSTANDING THE MOMENTARY FAULT CURRENT SHOWN. SERIES RATING SHALL NOT BE PERMITTED.
- 277/480V., 3P., 4W., PAD MOUNTED UTILITY TRANSFORMER. CONCRETE PAD PER FPL'S SPECIFICATIONS BY CONTRACTOR. CT'S LOCATED ON THE SECONDARY SIDE OF THE UTILITY TRANSFORMER BY FPL.
- (2) 4" PRIMARY CONDUITS. REFER TO SHEET E-200. TURN AND CAP CONDUITS AT UTILITY POLE USING 36" LONG SWEEP ELBOWS. PROVIDE PULLSTRING. COORDINATE SPECIFIC REQUIREMENTS WITH UTILITY COMPANY.
- 4. METER SOCKET FURNISHED AND INSTALLED BY CONTRACTOR PER FPL'S SPECIFICATIONS. METER BY FPL. MOUNT METER SOCKET TO 10'x6" PRECAST CONCRETE POST SET 3'-0" INTO EARTH WITH A 6" DEEP CONCRETE FOOTER AT BASE OF POST. LOCATE WITHIN 10' OF UTILITY TRANSFORMER. COORDINATE EXACT LOCATION WITH FPL.
- 5. 1 1/2" RGS CONDUIT, BY CONTRACTOR, FOR METERING CONDUCTORS, BY FPL.
- 6. 4 NO. 4/0 CU 2"C. EACH.
- FIELD LIGHTING CONTROL CABINET. FURNISHED BY MUSCO, INSTALLED BY CONTRACTOR. ROUTE 2 NO. 12 CU AND 1 NO. 12 CU EG - 1/2"C TO 'SL-1' FOR MUSCO LIGHTING CONTROL PANEL CONTROL CIRCUIT.
- 8. BRANCH CIRCUIT CONDUITS AND CONDUCTORS TO FIELD LIGHTING POLES.
- 9. (2) 2"C. WITH BRANCH CIRCUIT CONDUCTORS.
- 10.3 NO. 1 CU & 1 NO. 6 CU EG 1 1/2"C.
- 11. 4 NO. 4/0 CU & 1 NO. 2 CU EG 2 1/2"C.
- 12. SPD UNIT. ATLANTIC SCIENTIFIC #16404.
- 13. NO. 2 AWG CU. GROUNDING ELECTRODE CONDUCTOR.
- 14.3/4" X 10'-0" COPPER CLAD DRIVEN GROUND ROD. PLACE A MINIMUM OF 10'-0" APART. GROUNDING SYSTEM MUST BE TESTED AND BE 5 OHMS OR LESS. ADD ADDITIONAL GROUND RODS AS REQUIRED TO ACHIEVE.
- 15.10' x 6" PRECAST CONCRETE POSTS SET 3'-0" INTO EARTH WITH A 6" DEEP CONCRETE FOOTER AT BASE OF POST. MOUNT SHOWN EQUIPMENT TO POSTS WITH 3/4" UNI-STRUT. PAINT UNI-STRUT. COLOR BY ARCHITECT OR OWNER.
- 16.120V, 20A-1P, GFCI, RECEPTACLE WITH WEATHERPROOF COVER. CONNECT TO INDICATED CIRCUIT WITH 2 NO. 12 CU & 1 NO. 12 CU CU EG 3/4"C.
- 17. 480V—120/208V., 3—PHASE, 80 DEGREE C RISE, DRY—TYPE, STEP—DOWN TRANSFORMER IN WEATHERPROOF ENCLOSURE. KVA INDICATED. LIMIT SECONDARY CONDUCTOR LENGTH TO 10'—0" MAX. PROVIDE FLEXIBLE CONNECTION TO FINAL 2'—0" PRIMARY AND SECONDARY CONDUIT. DO NOT STUB CONDUIT INTO BOTTOM OF TRANSFORMER. CONDUIT ENTRIES SHALL BE MADE ON SIDES BELOW MANUFACTURERS MAXIMUM ALLOWABLE HEIGHT. GROUND AND BOND 'XO' VIA INDICATED CONDUCTOR TO SERVICE ENTRANCE GROUNDING ELECTRODE CONDUCTOR VIA EXOTHERMAL WELD. FURNISH AND INSTALL TRANSFORMER ON 8" CONCRETE HOUSEKEEPING PAD.
- 18. EXTERIOR SITE LIGHTING CONTROL PANEL. FURNISHED AND INSTALLED BY CONTRACTOR. ROUTE 2 NO. 12 CU AND 1 NO. 12 CU EG 1/2"C TO 'SL-3' FOR TIMECLOCK AND CONTACTOR CONTROL. REFER TO DETAIL ON SHEET E-100.
- 19. PUMP STATION CONTROL PANEL FURNISHED BY OTHERS INSTALLED BY CONTRACTOR.
- 20.PROVIDE SEAL-OFFS AS/IF REQUIRED. COORDINATE WITH PUMP STATION SUPPLIER.
- 21. PUMP STATION DISCONNECT SWITCH 600V/NEMA 4X/30A/3P/FUSED TO CONTROL PANEL NAMEPLATE DATA.
- 22.3 NO. 10 CU & 1 NO. 10 CU EG 3/4"C.

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TOWN OF MEDLEY	MEDLEY, FL 33166	DANNY MEEHAN RECREATIONAL FIELD	IMPROVEMENTS	ECTRICAL SINGLE LINE DIAGRAM &	PANEL SCHEDULES

JOB NO.:

DRAWN:

DESIGN:

DERION: 22010
DRAWN: RJ
DESIGN: RJ/RBJ
CHECKED: RBJ
APPROVED: RBJ

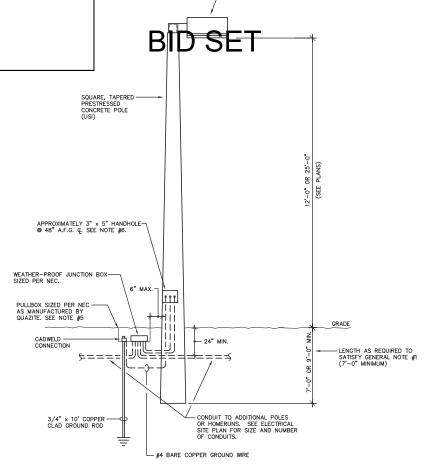
E-300



5327 Loon Nest Court Apollo Beach, FL 33572 ph: 813.645.8288 Reg. No. EB29566

	LIGHTING FIXTURE SCHEDULE									
TYPE	MANUFACTURER	CATALOG NO.	MOUNTING	VOLT	LAMP	REMARKS	INPUT WATTS			
SA	PHILLIPS GARDCO	ECF-1-3-105LA-321A-NW-UNV-COLOR BY ARCHITECT-IS	POLE MOUNTED 25'-0" AFG	277	LED WITH FIXTURE	4000K, 70CRI, LED POLE MOUNTED FIXTURE, VERIFY FINISH. TYPE III DISTRIBUTION. SEE DETAIL THIS SHEET.	107			
SA POLE	USI	USI34TIIH15-56 W/2&3/8 TENON - COLOR BY ARCHITECT.	DIRECT BURIAL			34' SQUARE TAPERED DIRECT BURIAL CONCRETE POLE BURRIED 7' BFG MINIMUM.				
SB	PHILLIPS GARDCO	BR842-42-CWL-NW-180-18-UNV-COLOR BY ARCHITECT	CONCRETE BASE FLUSH WITH GFADE	277	LED WITH FIXTURE	42" AFG, 4000K, 75CRI, ROUND FULL CUTOFF LED BOLLARD. 180 DEGREE DISTRIBUTION. AIM TOWARD WALKWAY.	18			
sc	PHILLIPS GARDCO	ECF-1-2-55LA-3253-NW-UNV-COLOR BY ARCHITECT	POLE MOUNTED 12'-0" AFG	277	LED WITH FIXTURE	4000K, 70CRI, LED POLE MOUNTED FIXTURE, VERIFY FINISH. TYPE II DISTRIBUTION. SEE DETAIL THIS SHEET.	52			
SC POLE	USI	USI19TIIH15-56 W/2&3/8 TENON - COLOR BY ARCHITECT.	DIRECT BURIAL			19' SQUARE TAPERED DIRECT BURIAL CONCRETE POLE BURRIED 5' BFG MINIMUM.				
SD	PHILLIPS GARDCO	ECF-1-5-55LA-3253-NW-UNV-COLOR BY ARCHITECT	POLE MOUNTED 12'-0" AFG	277	LED WITH FIXTURE	4000K, 70CRI, LED POLE MOUNTED FIXTURE, VERIFY FINISH. TYPE V DISTRIBUTION. SEE DETAIL THIS SHEET.	52			
SD POLE	USI	USI19TIIH15-56 W/2&3/8 TENON - COLOR BY ARCHITECT.	DIRECT BURIAL			19' SQUARE TAPERED DIRECT BURIAL CONCRETE POLE BURRIED 5' BFG MINIMUM.				
А	INSIGHT	WF6-EAS-18-TA(D)-T8324'-2-COLOR BY ARCHITECT-WVS-PL	ARM MOUNTED 18" ARM	277	(2) 32W T8	4' LINEAR SIGN LIGHT WITH SOLID VISOR AND PRISMATIC ACRYLIC LENS	62			
В	BEGHELLI	BS100T8-4-HT-232W-120/277V-DPK-TP- OL	6" DOUBLE PENDANT MOUNT	120	(2) 32W T8	WEATHERPROOF VAPORTITE FIXTURE.	62			

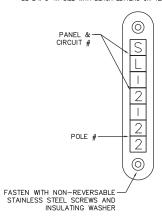
- FURNISH AND INSTALL FUSES IN ALL FIXTURES. LOCATE FUSES AT POLE HANDHOLE.
- CONTRACTOR SHALL FURNISH AND INSTALL COMPLETE IN ALL RESPECTS ALL ITEMS LISTED. NO SUBSTITUTIONS.
- THE CONTRACTOR SHALL SUBMIT CATALOG CUTS OF ALL THE FIXTURES TO THE ENGINEER FOR APPROVAL.
- ALL FIXTURES SHALL BE FURNISHED WITH BIRD DETERRENT WIRES. ALL FIXTURES SHALL BE CLEAN AT THE TIME OF FINAL INSPECTION.
- 6. ALL FIXTURES SHALL BE FURNISHED WITH A (10) YEAR FACTORY WARRANTY. SUBMIT WARRANTY WITH CATALOG CUTS



# BOLLARD LIGHT FIXTURE (SIMILAR) —6" MIN. SIDEWALK -- FINISHED GRADE (4) 3/8" ANCHOR BOLTS W/ #16 HEX HEAD BOLTS

BOLLARD MOUNTING DETAIL

NOTE: FURNISH AND INSTALL ALL ALUMINUM IDENTIFICATION TAG ON EACH POLE MOUNTED LIGHTING STANDARD. TAGS SHALL
BE 2"x 8" IN SIZE WITH BLACK LETTERS ON YELLOW BACKGROUND.



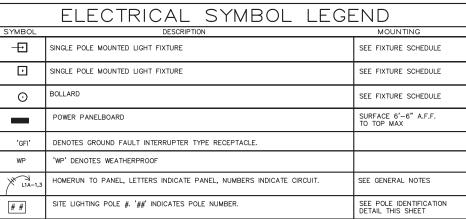
# POLE IDENTIFICATION DETAIL

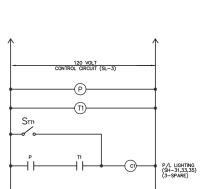
#### SITE FIXTURE POLE DETAIL

N.T.S.

#### GENERAL NOTES:

- 1. CONTRACTOR TO SUBMIT DESIGN WIND LOAD CALCULATIONS CERTIFYING CONFORMANCE OF POLE ASSEMBLY AS DICTATED BY THE 2011 FLORIDA BUILDING CODE, EACH CALCULATION SHALL BE SIGNED AND SEALED BY A STATE OF FLORIDA LICENSED STRUCTURAL ENGINEER.
- 2. FURNISH AND INSTALL BUSSMAN "TRON" TYPE "HEB" IN-LINE WATERPROOF FUSE HOLDERS. FUSE WITH BUSSMAN TYPE "FNM" FUSES, FUSED AT 1.0A.
  LOCATE FUSES IN POLE HAND HOLE.
- 3. COORDINATE ALL WORK WITH CIVIL AND LANDSCAPE SITE PLANS.
- 4. POLES SHALL BE FACTORY EQUIPPED WITH GROUNDING STUDS. EQUIPMENT GROUNDING CONDUCTOR SHALL BE BONDED TO THE GROUND STUD.
- 5. PULLBOX MANUFACTURED BY QUAZITE W/15.000 LBS DESIGN LOAD TO HAVE HEAVY-DUTY COPOLYMER FULL D.O.T. TRAFFIC RATED
  HANDHOLE WITH COVER (COVER TO READ "ELECTRICAL"), FURNISH AND
  INSTALL GRAVEL (1FT.) IN BOTTOM OF PULLBOX FOR DRAINAGE IN
  ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 6. ROUTE CONDUIT CONTINUOUS THRU POLE ASSEMBLY AND TERMINATE WITH INSULATION BUSHING AT HAND-HOLE WINDOW.





Stil = 0-2HR. TWIST-TIMER FOR PHOTOCELL/TIMECLOCK OVERRIDE.
LABEL "PHOTOCELL/TIMECLOCK OVERRIDE". LABEL "P/L LTG.".

P = 120V PHOTOCELL, TORK OR INTERMATIC. MOUNT ON 3/4"

RGS 6" ABOVE TOP OF POST. AIM NORTH.

T1 = ASTRONOMICAL, 120V TIMECLOCK. TORK OR INTERMATIC.

C1 = 30A FULLY-RATED, 6-POLE NORMALLY OPEN ELECTRICALLY

- HELD LIGHTING CONTACTOR WITH 120 VOLT HOLDING COIL. SQUARE-D TYPE 8903.

# SITE LIGHTING CONTROL PANEL DIAGRAM - 'LCP'

LIGHTING CONTROL GENERAL NOTES:

- 1. LIGHT CONTROL SHALL BE PHOTOCELL "ON", TIMECLOCK "OFF".
- 2. MOUNT ALL COMPONENTS SHOWN IN A NEMA 3R ENCLOSURE, U.L. 50 LABELED. ARRANGE ENCLOSURE TO HOUSE ALL COMPONENTS SHOWN, SUBMIT DIMENSIONED DETAIL OF ENCLOSURE SHOWING PLACEMENT OF TERMINAL STRIPS, TIMECLOCKS, LIGHTING CONTACTORS AND TWIST-TIMERS TO THE ELECTRICAL ENGINEER FOR APPROVAL.
- LAMINATE ONE COPY OF THIS DETAIL AND SECURE IT TO THE INSIDE DOOR OF THE ENCLOSURE.
- 4. MOUNT CONTACTOR ENCLOSURE ADJACENT TO PANEL 'SH'.

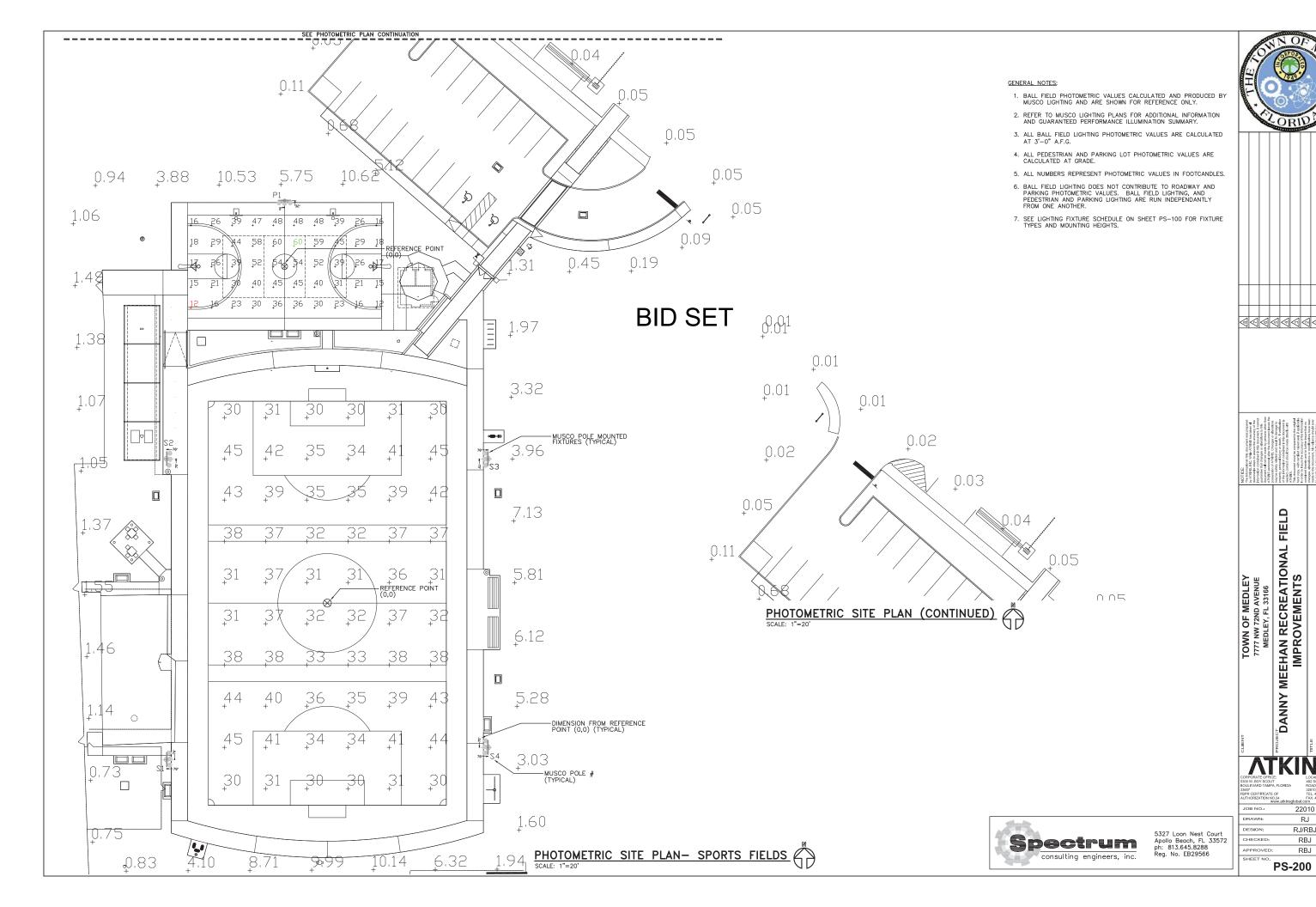


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22010 RJ/RBJ DESIGN: RBJ RBJ

PS-100

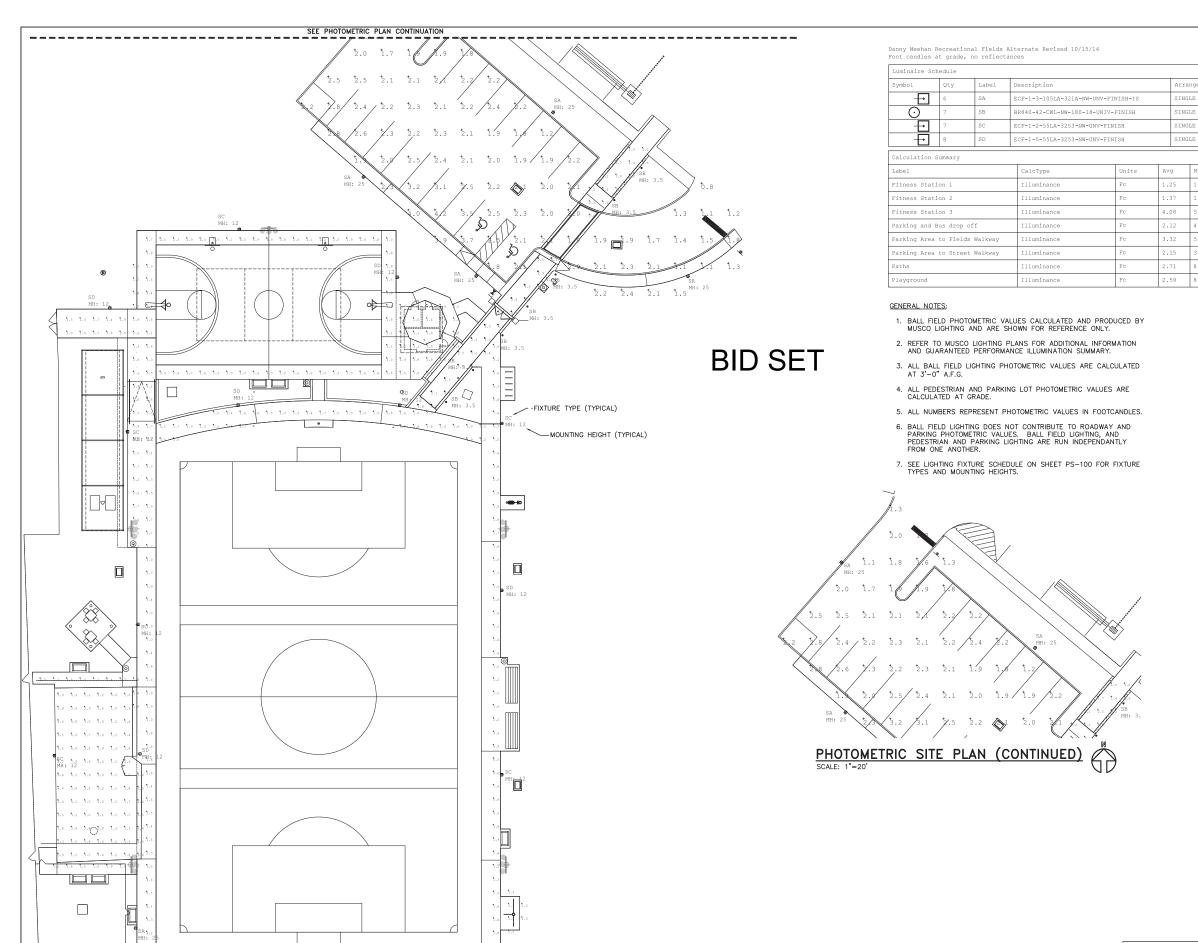


SITE PLAN- SPORTS

22010

RJ/RBJ

RBJ RBJ

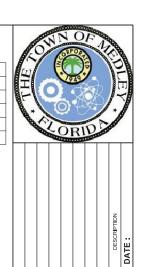


PHOTOMETRIC - SITE PLAN - PEDESTRIAN &

PARKING LOT (POLE MOUNTED OPTION)



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1.42

1.62

2.89

CLIENT TOWN OF MEDLEY 7777 NW 72ND AVENUE MEDLEY, FL 33166	PROJECT DANNY MEEHAN RECREATIONAL FIE IMPROVEMENTS	PHOTOMETRIC SITE PLAN- PEDESTRIAL PARKING LOT (POLE MOUNTED OPTIO
CORPORATE OFFIC 5300 W. BOY SCOU BOULEVARD TAMP. 33607 FBPR CERTIFICATE AUTHORIZATION N.	T A, FLORIDA	LOCAL OFFICE: 482 SOUTH KELLER ROAD ORLANDO, FL 32810 TEL. 407.647.7275 FAX. 407.808.4500
JOB NO.:	220	10
DRAWN:	R	J
DESIGN:	RJ/F	RBJ
CHECKED:	RE	3J
APPROVED:	RE	3J

PS-300

FIELD