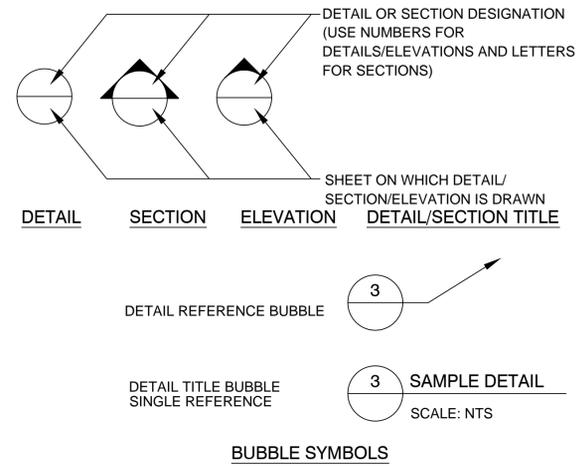


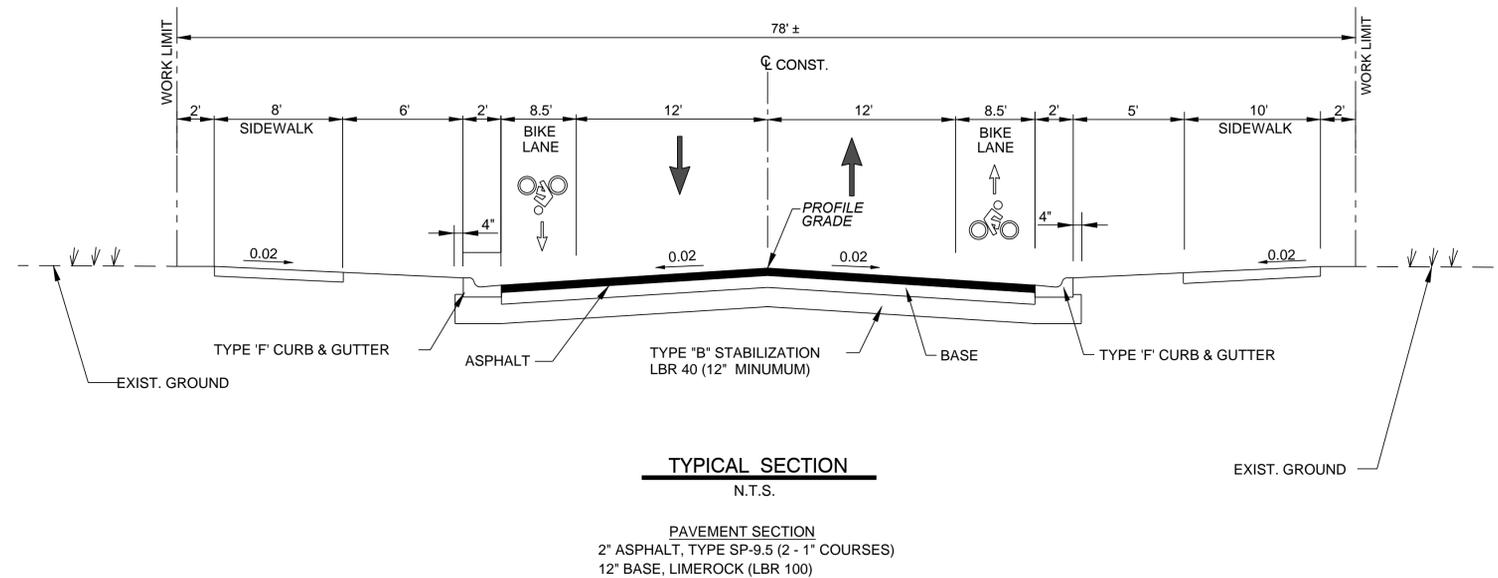
GENERAL NOTES

1. THE CONTRACTOR SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS AND ADVISE THE ENGINEER OF ANY CONFLICTS OF REPRESENTATION BETWEEN DRAWINGS AND/OR SPECIFICATIONS PRIOR TO COMMENCING WITH CONSTRUCTION.
2. THE CONTRACTOR SHALL FIELD-VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING ANY WORK UNDER THIS CONTRACT AND NOTIFY THE ENGINEER IN WRITING OF ANY DIFFERENCES BEFORE COMMENCING WITH ANY CONSTRUCTION.
3. HORIZONTAL COORDINATES ARE BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM. VERTICAL ELEVATIONS ARE BASED ON NGVD 1929 DATUM.
4. THE LOCATIONS, SIZES, AND ELEVATIONS OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO OBTAIN ANY AVAILABLE RECORD DRAWINGS AND SHALL DETERMINE THE EXACT LOCATION AND ELEVATION IN THE FIELD. THE CONTRACTOR SHALL ANTICIPATE THAT SCANNING AND EXCAVATION USING LIGHT EQUIPMENT AND HAND METHODS WILL BE NECESSARY IN AREAS NEAR EXISTING UTILITIES AND STRUCTURES TO AVOID DAMAGING THESE FACILITIES. THE CONTRACTOR SHALL CONTACT BELLSOUTH, THE LOCAL TELEPHONE COMPANY AND COMCAST, THE LOCAL CABLE TV PROVIDER TO VERIFY THE LOCATION OF BURIED TELEPHONE AND CABLE TV UTILITIES. NONE HAVE BEEN INDICATED ON THE DRAWINGS. CALL 1-800-432-4770 BEFORE DIGGING OR TRENCHING OPERATIONS BEGIN. CONTRACTOR SHALL ALSO CONTACT KEYS ENERGY TO LOCATE SECONDARY ELECTRIC LINES.
5. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND ELEVATION IN THE FIELD PRIOR TO INSTALLING ANY NEW WORK THAT CROSSES OR CONNECTS TO EXISTING UTILITY SYSTEMS. LOCATIONS OF NEW UTILITIES SHALL BE ADJUSTED IN A MANNER APPROVED BY THE ENGINEER TO AVOID CONFLICTS. DAMAGES TO UTILITIES RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE CLIENT.
6. ALL EXCAVATION, TRENCHING, SHEETING, SHORING AND BRACING SHALL BE INSTALLED AS REQUIRED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS, INCLUDING OSHA (29 CFR 1926).
7. ALL ITEMS INDICATED TO BE REMOVED OR DEMOLISHED SHALL BE REVIEWED WITH THE OWNER TO DETERMINE IF THE ITEM IS TO BE PROPERTY OF THE CONTRACTOR. ALL ITEMS SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS, UNLESS OTHERWISE NOTED. NO SALVAGE VALUE IS EXPRESSED OR IMPLIED BY THESE CONTRACT DOCUMENTS FOR ANY ITEMS TO BE REMOVED OR DEMOLISHED.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY OF THE CONTRACTOR'S EQUIPMENT, MATERIALS, AND PERSONNEL, AND SHALL PROVIDE ADEQUATE BARRIERS TO PREVENT RISK TO OTHERS FROM THE CONTRACTOR'S ACTIVITIES.
9. WHERE ACTUAL DIMENSIONS AND SIZES ARE PROVIDED IN THE DRAWINGS, THEY SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. LARGE SCALE DRAWINGS SHALL TAKE PRECEDENCE OVER SMALL SCALE DRAWINGS.
10. THE CONTRACTOR SHALL SEQUENCE HIS OPERATIONS SUCH THAT ORANGE MESH SAFETY FENCING IS PROVIDED ALONG ALL AREAS BEING TRENCHED AND NO TRENCH IS LEFT OPEN AT THE END OF THE WORK DAY.
11. NO CONNECTIONS FOR THE PURPOSE OF OBTAINING WATER SUPPLY DURING CONSTRUCTION SHALL BE MADE TO ANY FIRE HYDRANT OR BLOW-OFF STRUCTURE WITH OUT FIRST OBTAINING A CONSTRUCTION METER FROM THE FLORIDA KEYS AQUEDUCT AUTHORITY.
12. IF UNSATISFACTORY MATERIAL FOR ADEQUATE BEARING IS ENCOUNTERED AT THE NORMAL SUBGRADE, THE UNSATISFACTORY MATERIAL SHALL BE REMOVED AND REPLACED WITH SUITABLE FOUNDATION STABILIZATION MATERIAL AS SPECIFIED.
13. IN GENERAL, EXISTING STRUCTURES AND UTILITIES ARE NOTED AS EXISTING AND/OR SHOWN IN LIGHT LINE WEIGHT. NEW CONSTRUCTION IS SHOWN IN HEAVY LINE WEIGHT.
14. ALL FIELD LAYOUT AND SURVEYING FOR CONSTRUCTION OF THIS PROJECT SHALL BE PROVIDED BY THE CONTRACTOR AT HIS EXPENSE, UNDER THE DIRECTION OF A FLORIDA LICENSED PROFESSIONAL LAND SURVEYOR.



NEW CONSTRUCTION NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY DURING CONSTRUCTION OF NEW UTILITIES TO ANTICIPATE AND PLAN FOR CROSSINGS OF NEW AND EXISTING UTILITIES AND SUBSURFACE FEATURES. UTILITY LINES SHALL HAVE PRIORITIES AS FOLLOWS:
 - A. GRAVITY SANITARY SEWER LINES SHALL BE CONSTRUCTED TO GRADES AS INDICATED.
 - B. ANY GRAVITY UTILITY DISCOVERED TO CONFLICT WITH GRADES FOR NEW SANITARY SEWER LINES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER WITH POSSIBLE SOLUTIONS FOR HORIZONTAL AND VERTICAL ADJUSTMENT.
 - C. POTABLE WATER LINES, ELECTRICAL, COMMUNICATION, AND CABLE TV DISTRIBUTIONS WILL REQUIRE RELOCATION AS NECESSARY TO ACCOMMODATE NEW SANITARY SEWER LINES. THE CONTRACTOR SHALL DETERMINE, PRIOR TO INSTALLATION, THE METHOD BY WHICH THESE LINES SHALL BE REROUTED ABOVE OR BELOW NEW SANITARY SEWER LINES. THE CONTRACTOR SHALL REFER TO THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS FOR SEPARATION REQUIREMENTS BETWEEN INDIVIDUAL UTILITY LINES, BOTH HORIZONTALLY AND THE CONTRACTOR SHALL INCLUDE IN THE VERTICALLY, AND SPECIAL TREATMENT REQUIREMENTS. BID PRICE ANY SPECIAL TREATMENT REQUIRED FOR UTILITY INSTALLATION, INCLUDING ADJUSTMENTS OF EXISTING UTILITIES.
2. NEW SLABS SHALL BE GRADED TO POSITIVELY DRAIN WITHOUT ANY STORMWATER PONDING.
3. PROVIDE CONTRACTION JOINTS AT 12' O.C. MAX. JOINT PATTERNS IN PAVEMENTS AND SIDEWALKS SHALL BE GENERALLY SQUARE. AT CURBS PROVIDE FULL DEPTH EXPANSION JOINTS AT 100 FT. O.C. MAX, AND AT LOCATIONS WHERE STRAIGHT CURB RUNS CHAGE DIRECTIONS. AT SIDEWALKS PROVIDE WEAKENED PLANE CONTRACTION JOINTS NOT MORE THAN 5'-0" MAX. AND EXPANSION JOINTS AT 20-FT. O.C. MAX (TOOL ALL EDGES). INSTALL SELF-LEVELING SEALANT AT ALL ISOLATION/ EXPANSION JOINTS.



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PREPARED FOR/OWNER:
CITY OF KEY WEST, FL
P. O. BOX 1409
3140 FLAGLER AVENUE
KEY WEST, FL 33041



PROJECT NAME:

TRUMAN WATERFRONT PARK

PROJECT LOCATION/ADDRESS:

TRUMAN WATERFRONT PARK
WEST OF FORT STREET AND THE
TRUMAN ANNEX DEVELOPMENT,
NORTH OF KEY WEST NAVAL BASE

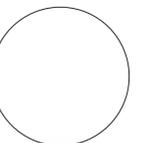
SUB-CONSULTANT INFORMATION:

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PROFESSIONAL SEAL:



ALLEN E. PEREZ, P.E.
FLORIDA REGISTERED ENGINEER
51468

SUBMITTAL DESCRIPTION / MILESTONE:

BIDDING
August 30, 2015

REVISIONS:

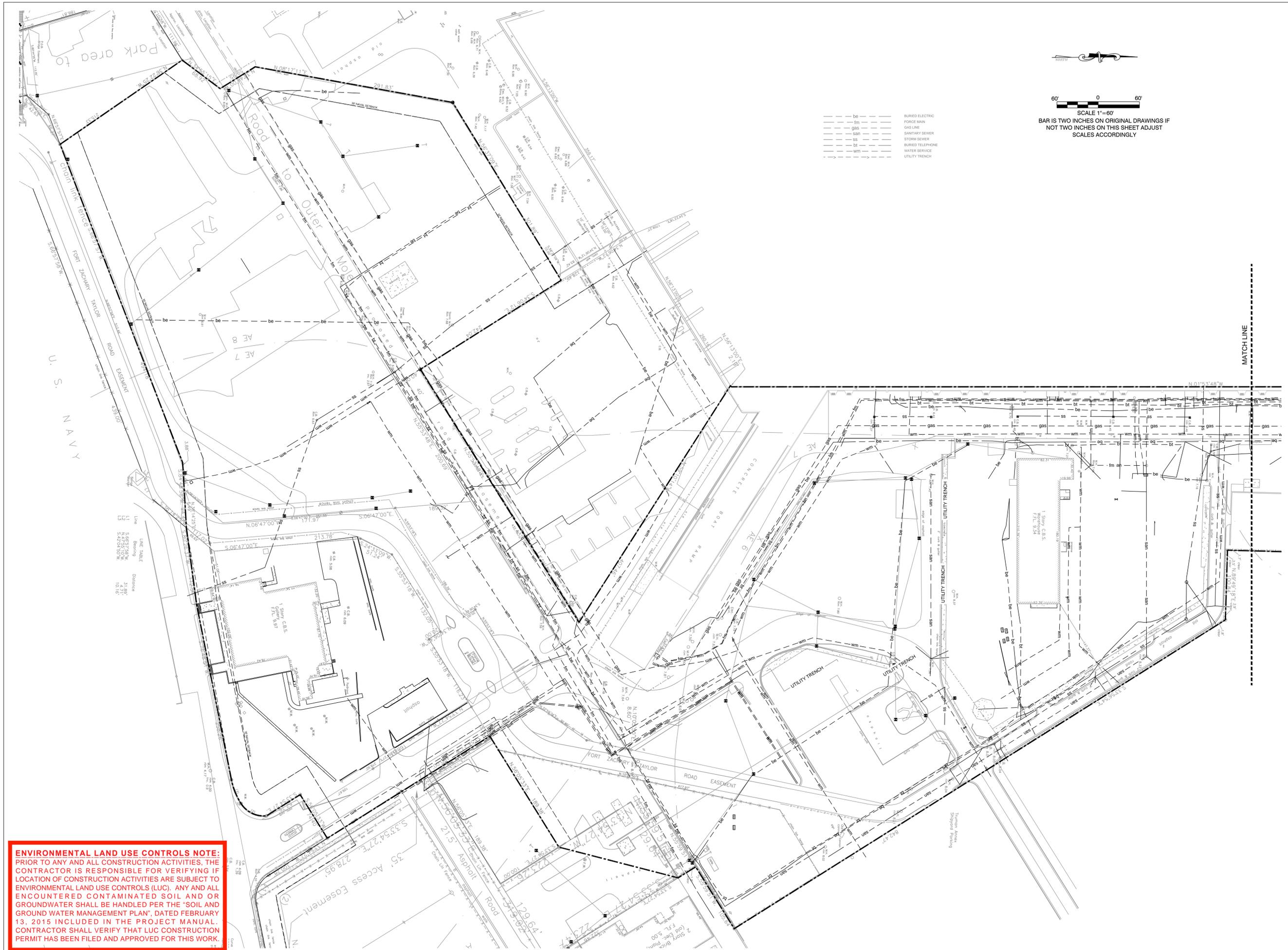
DRAWING SHEET INFORMATION

BA PROJECT NO.: 14041
SCALE: N/A
DATE: June 25, 2015
DRAWN BY: BGO
CHECKED BY: AEP

DRAWING TITLE:

GENERAL ENGINEERING NOTES
SHEET NO.

CN-01



BIDDING
August 30, 2015

REVISIONS:

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BA PROJECT NO.:	14041
SCALE:	1" = 60'
DATE:	June 25, 2015
DRAWN BY:	BGO
CHECKED BY:	AEP

DRAWING TITLE:
EXISTING CONDITIONS PLAN

SHEET NO.
CC-01

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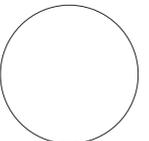
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BA PROJECT NO.: 14041
SCALE: 1" = 60'
DATE: June 25, 2015
DRAWN BY: BGO
CHECKED BY: AEP

DRAWING TITLE:
**EXISTING
CONDITIONS PLAN**

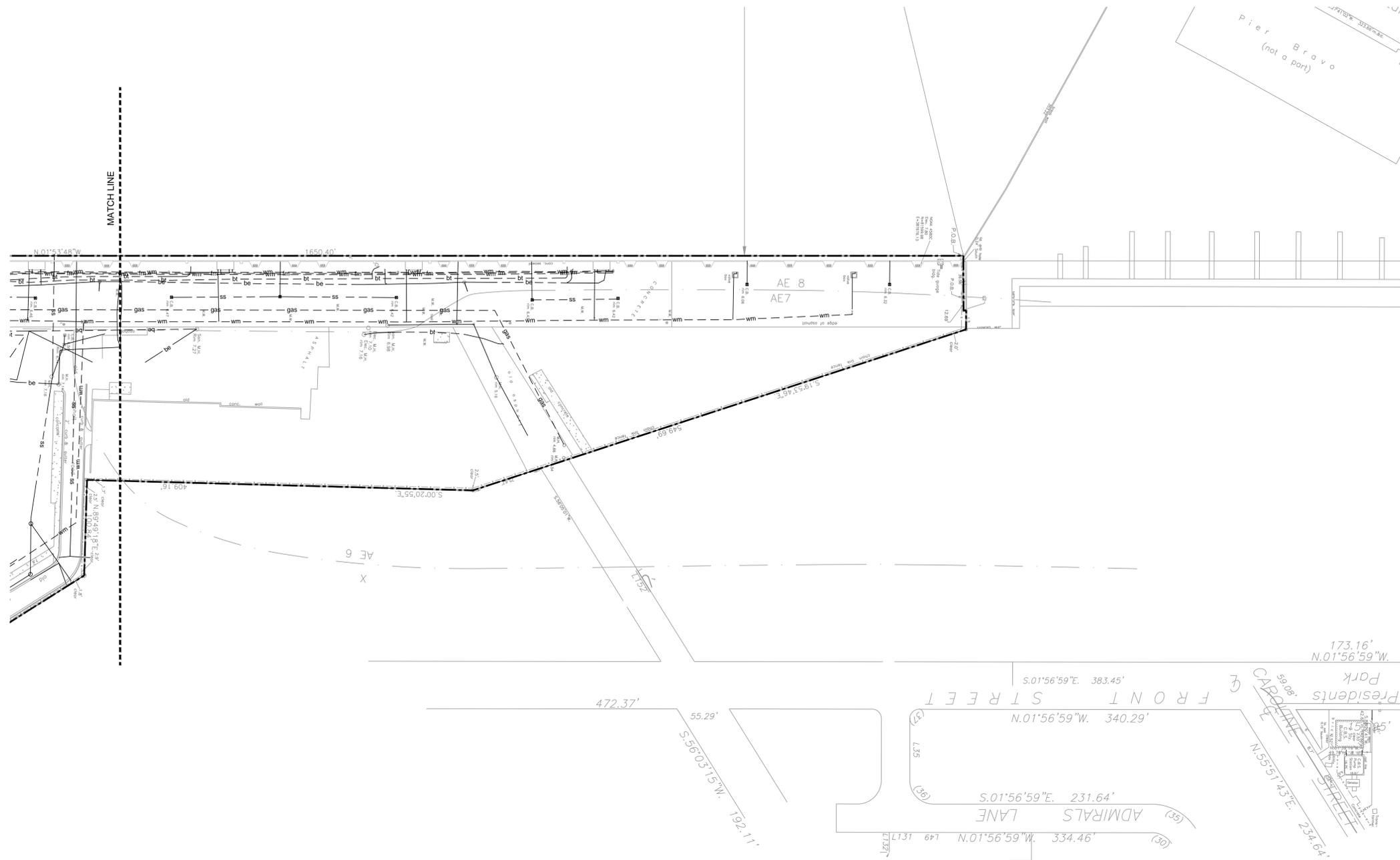
SHEET NO.

CC-02

---	be	BURIED ELECTRIC
---	fm	FORCE MAIN
---	gas	GAS LINE
---	san	SANITARY SEWER
---	ss	STORM SEWER
---	bt	BURIED TELEPHONE
---	wm	WATER SERVICE
---	---	UTILITY TRENCH



SCALE 1"=60'
BAR IS TWO INCHES ON ORIGINAL DRAWINGS IF
NOT TWO INCHES ON THIS SHEET ADJUST
SCALES ACCORDINGLY



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PROJECT NAME:

**TRUMAN
WATERFRONT
PARK**

PROJECT LOCATION/ADDRESS:

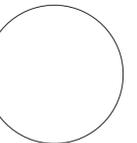
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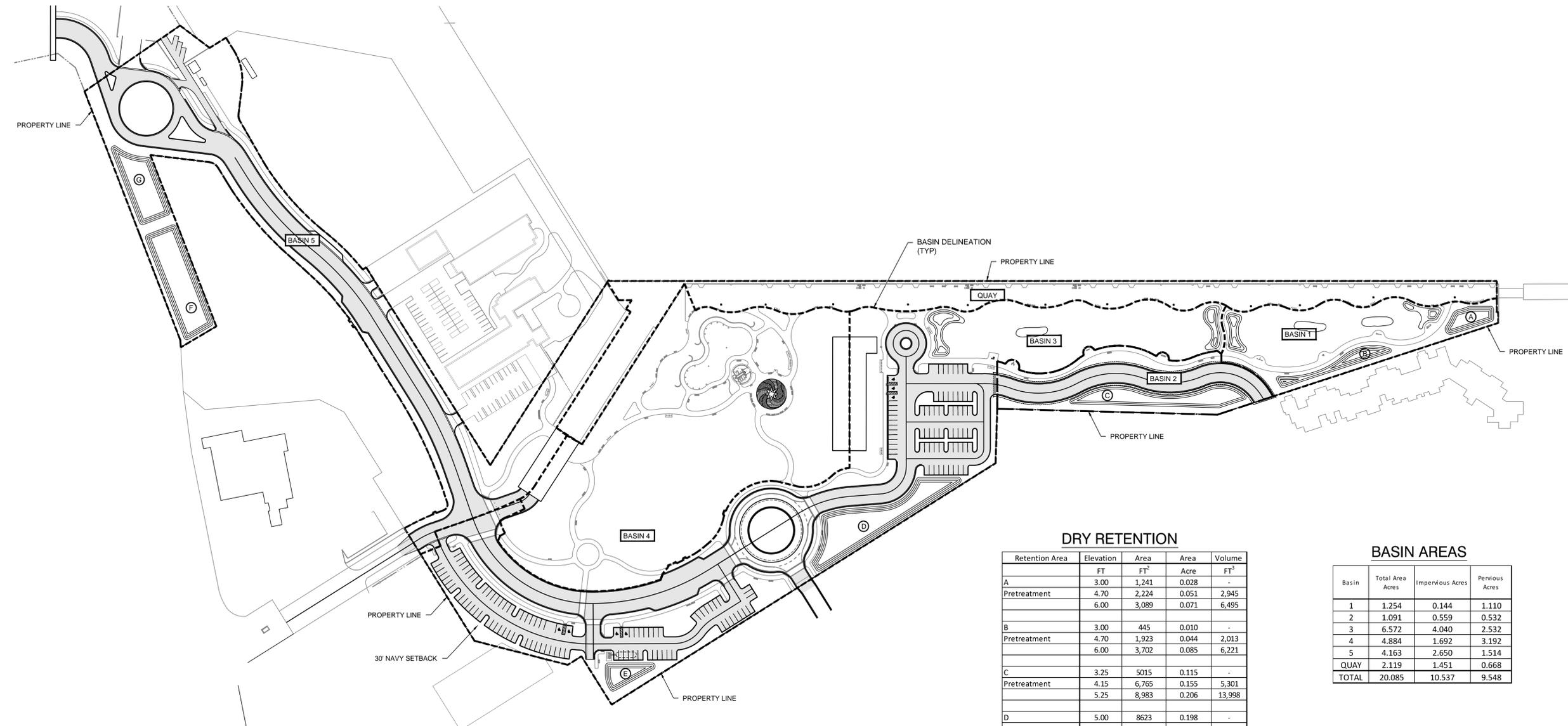
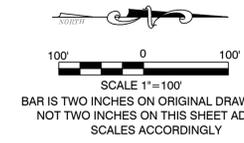
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SCALE: 1" = 100'
DATE: June 25, 2015
DRAWN BY: BGO
CHECKED BY: AEP

DRAWING TITLE:

**DRAINAGE BASIN
MAP**

SHEET NO.

CB-01



DRY RETENTION

Retention Area	Elevation	Area	Area	Volume
	FT	FT ²	Acre	FT ³
A	3.00	1,241	0.028	-
Pretreatment	4.70	2,224	0.051	2,945
	6.00	3,089	0.071	6,495
B	3.00	445	0.010	-
Pretreatment	4.70	1,923	0.044	2,013
	6.00	3,702	0.085	6,221
C	3.25	5015	0.115	-
Pretreatment	4.15	6,765	0.155	5,301
	5.25	8,983	0.206	13,998
D	5.00	8623	0.198	-
Pretreatment	6.80	12,240	0.281	18,777
	8.00	14,772	0.339	35,093
E	5.00	1157	0.027	-
Pretreatment	6.80	2,231	0.051	3,049
	8.00	3,066	0.070	6,335
F	3.00	7900	0.181	-
Pretreatment	4.70	10,337	0.237	15,501
	6.00	12,316	0.283	30,324
G	3.00	4749	0.109	-
Pretreatment	4.70	6,547	0.150	9,602
	6.00	8,053	0.185	19,203
Total				
		Swale Pretreatment Volume (FT ³)		57,188
		Swale Total Volume (FT ³)		117,668

BASIN AREAS

Basin	Total Area Acres	Impervious Acres	Pervious Acres
1	1.254	0.144	1.110
2	1.091	0.559	0.532
3	6.572	4.040	2.532
4	4.884	1.692	3.192
5	4.163	2.650	1.514
QUAY	2.119	1.451	0.668
TOTAL	20.085	10.537	9.548

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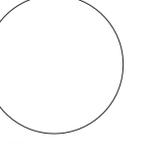
PROJECT NAME:
TRUMAN WATERFRONT PARK

PROJECT LOCATION/ADDRESS:
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WEST OF FORT STREET AND THE
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SUB-CONSULTANT INFORMATION:
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SUBMITTAL DESCRIPTION / MILESTONE:

BIDDING
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REVISIONS:

NO.	DESCRIPTION

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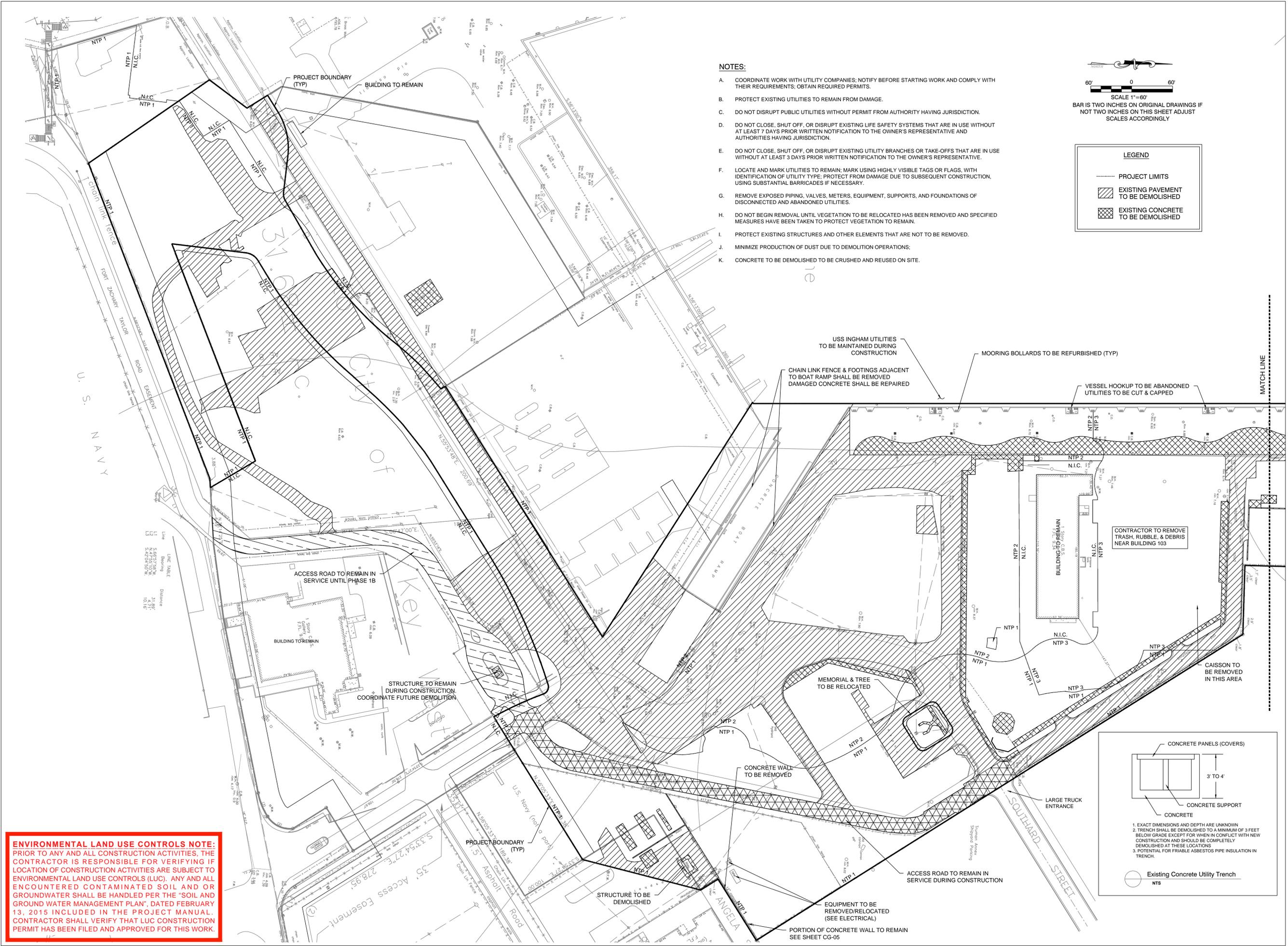
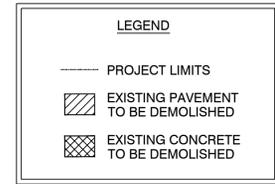
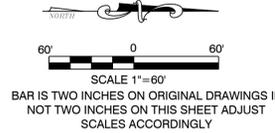
BA PROJECT NO.: 14041
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DRAWING TITLE:
**SITE DEMOLITION
PLAN**

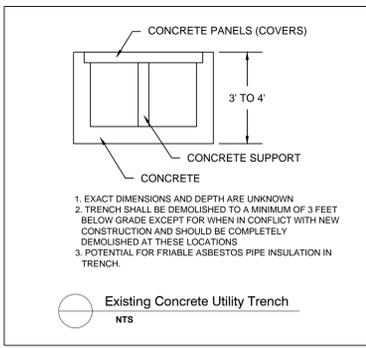
SHEET NO.
CS-01

NOTES:

- A. COORDINATE WORK WITH UTILITY COMPANIES; NOTIFY BEFORE STARTING WORK AND COMPLY WITH THEIR REQUIREMENTS; OBTAIN REQUIRED PERMITS.
- B. PROTECT EXISTING UTILITIES TO REMAIN FROM DAMAGE.
- C. DO NOT DISRUPT PUBLIC UTILITIES WITHOUT PERMIT FROM AUTHORITY HAVING JURISDICTION.
- D. DO NOT CLOSE, SHUT OFF, OR DISRUPT EXISTING LIFE SAFETY SYSTEMS THAT ARE IN USE WITHOUT AT LEAST 7 DAYS PRIOR WRITTEN NOTIFICATION TO THE OWNER'S REPRESENTATIVE AND AUTHORITIES HAVING JURISDICTION.
- E. DO NOT CLOSE, SHUT OFF, OR DISRUPT EXISTING UTILITY BRANCHES OR TAKE-OFFS THAT ARE IN USE WITHOUT AT LEAST 3 DAYS PRIOR WRITTEN NOTIFICATION TO THE OWNER'S REPRESENTATIVE.
- F. LOCATE AND MARK UTILITIES TO REMAIN; MARK USING HIGHLY VISIBLE TAGS OR FLAGS, WITH IDENTIFICATION OF UTILITY TYPE; PROTECT FROM DAMAGE DUE TO SUBSEQUENT CONSTRUCTION, USING SUBSTANTIAL BARRICADES IF NECESSARY.
- G. REMOVE EXPOSED PIPING, VALVES, METERS, EQUIPMENT, SUPPORTS, AND FOUNDATIONS OF DISCONNECTED AND ABANDONED UTILITIES.
- H. DO NOT BEGIN REMOVAL UNTIL VEGETATION TO BE RELOCATED HAS BEEN REMOVED AND SPECIFIED MEASURES HAVE BEEN TAKEN TO PROTECT VEGETATION TO REMAIN.
- I. PROTECT EXISTING STRUCTURES AND OTHER ELEMENTS THAT ARE NOT TO BE REMOVED.
- J. MINIMIZE PRODUCTION OF DUST DUE TO DEMOLITION OPERATIONS.
- K. CONCRETE TO BE DEMOLISHED TO BE CRUSHED AND REUSED ON SITE.



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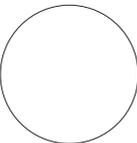
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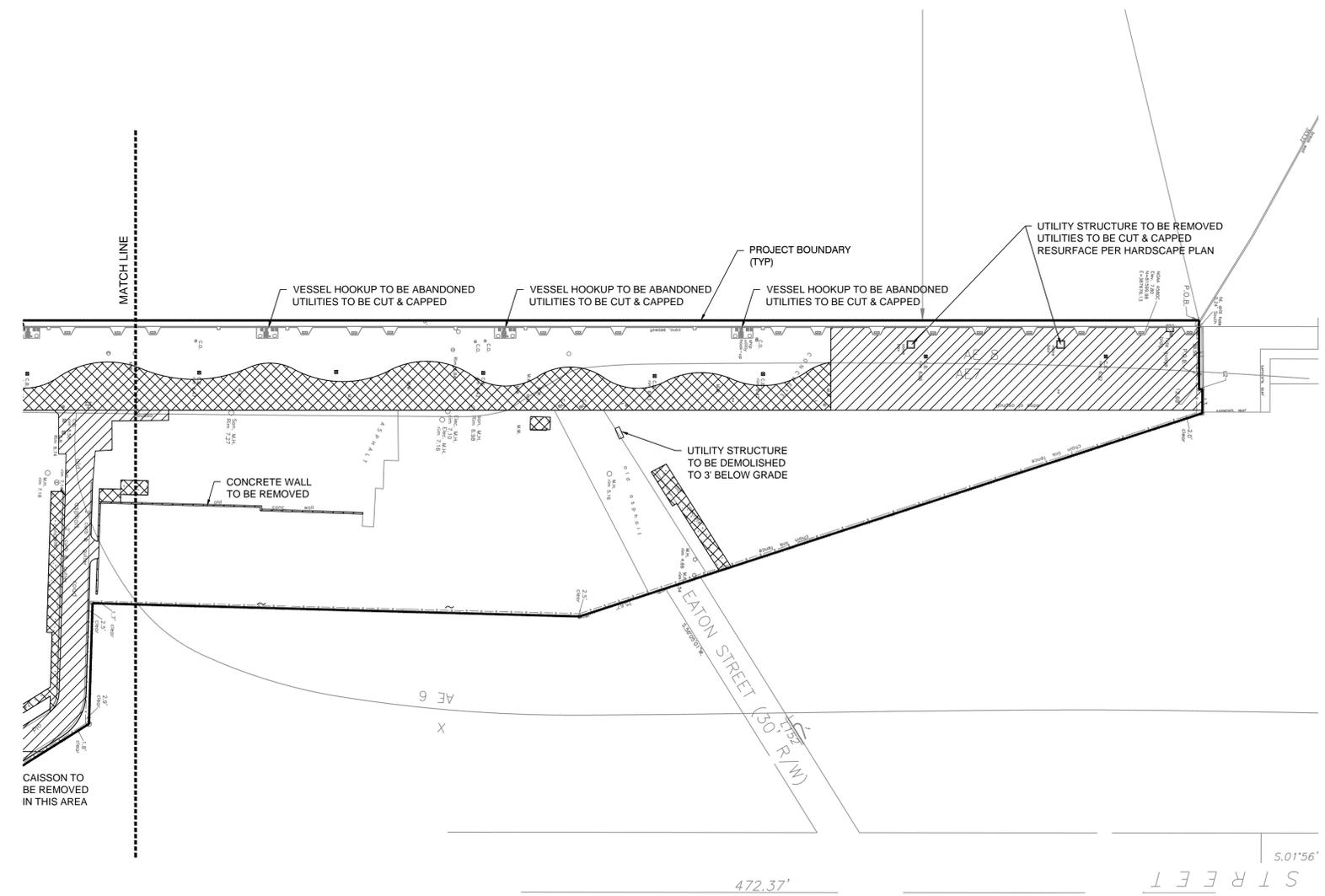
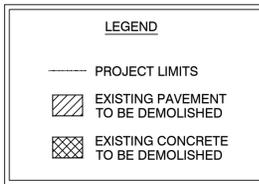
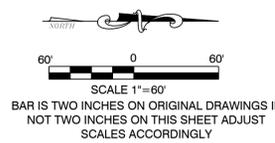
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DRAWING TITLE:
SITE DEMOLITION PLAN

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CS-02

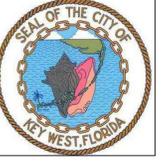


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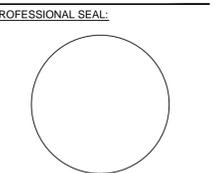
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ALLEN E. PEREZ, P.E.
 FLORIDA REGISTERED ENGINEER
 51468

SUBMITTAL DESCRIPTION / MILESTONE:

BIDDING
August 30, 2015

REVISIONS:

DRAWING SHEET INFORMATION
 BA PROJECT NO.: 14041
 SCALE: 1" = 60'
 DATE: June 25, 2015
 DRAWN BY: BGO
 CHECKED BY: AEP

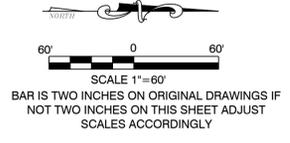
DRAWING TITLE:
EROSION CONTROL PLAN

SHEET NO.
CE-01

SWPPP GENERAL NOTES

- ALL AREAS WITHIN THE PROJECT LIMITS WILL BE SUBJECT TO SOIL DISTURBANCE.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT THE BEST MANAGEMENT PRACTICES AS OUTLINED IN THE CIVIL DOCUMENTS, THE STORMWATER POLLUTION PREVENTION PLAN, AND SPECIFICATION.
- ANY ITEMS LISTED UNDER THE ABOVE REFERENCED KEYNOTES AS "CONTRACTOR TO LOCATE" SHALL BE DETERMINED BY CONTRACTOR IN ACCORDANCE WITH APPLICABLE CONSTRUCTION SCHEDULING.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE "CONTAMINATED GROUNDWATER & SOILS MANAGEMENT PLAN" PREPARED BY E-SCIENCES, INC.

- SWPPP SITE MAP KEY NOTES**
- PROJECT BOUNDARY
 - GRAVEL CONSTRUCTION DRIVEWAY
 - EROSION CONTROL MEASURES
 - TEMPORARY SANITARY SERVICES (CONTRACTOR TO LOCATE)
 - DRAINAGE PATTERNS AFTER MAJOR GRADING, TYP.
 - TRENCH DEWATERING LOCATIONS
 - STORM INLETS TO BE PROTECTED DURING CONSTRUCTION (SHEET CD-01)
 - CONSTRUCTION DUMPSTER (CONTRACTOR TO LOCATE)
 - DIRECTION OF POSSIBLE OFF-SITE RUNOFF
 - STREET SWEEPING (WHERE NEEDED)
 - TRUCK WASHDOWN LOCATION
 - TURBIDITY SCREEN

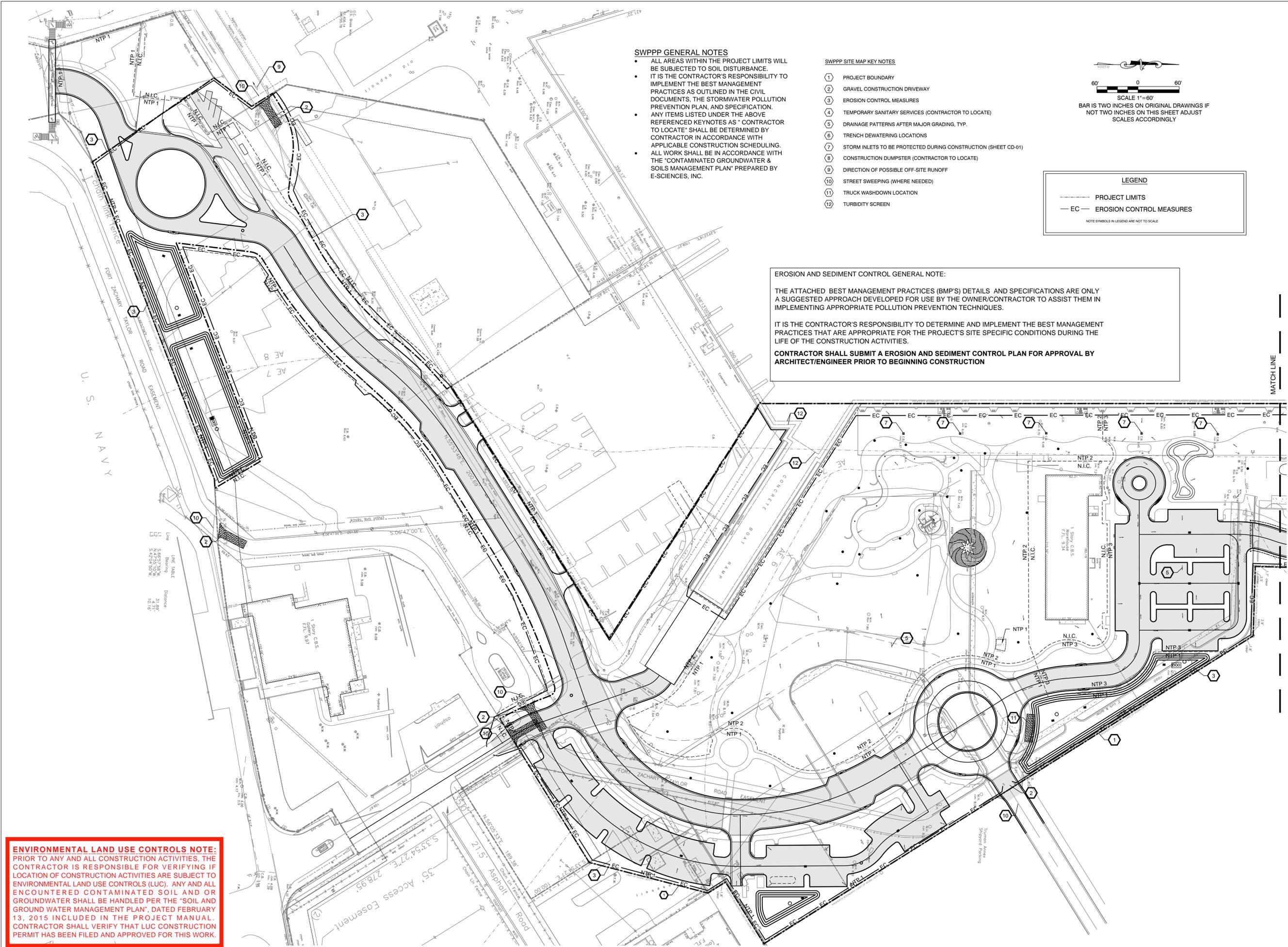


EROSION AND SEDIMENT CONTROL GENERAL NOTE:

THE ATTACHED BEST MANAGEMENT PRACTICES (BMP'S) DETAILS AND SPECIFICATIONS ARE ONLY A SUGGESTED APPROACH DEVELOPED FOR USE BY THE OWNER/CONTRACTOR TO ASSIST THEM IN IMPLEMENTING APPROPRIATE POLLUTION PREVENTION TECHNIQUES.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND IMPLEMENT THE BEST MANAGEMENT PRACTICES THAT ARE APPROPRIATE FOR THE PROJECT'S SITE SPECIFIC CONDITIONS DURING THE LIFE OF THE CONSTRUCTION ACTIVITIES.

CONTRACTOR SHALL SUBMIT A EROSION AND SEDIMENT CONTROL PLAN FOR APPROVAL BY ARCHITECT/ENGINEER PRIOR TO BEGINNING CONSTRUCTION



ENVIRONMENTAL LAND USE CONTROLS NOTE:
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PREPARED FOR/OWNER:
CITY OF KEY WEST, FL
P. O. BOX 1409
3140 FLAGLER AVENUE
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PROJECT NAME:

**TRUMAN
WATERFRONT
PARK**

PROJECT LOCATION/ADDRESS:

TRUMAN WATERFRONT PARK
WEST OF FORT STREET AND THE
TRUMAN ANNEX DEVELOPMENT,
NORTH OF KEY WEST NAVAL BASE

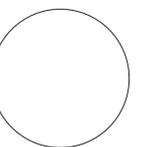
SUB-CONSULTANT INFORMATION:

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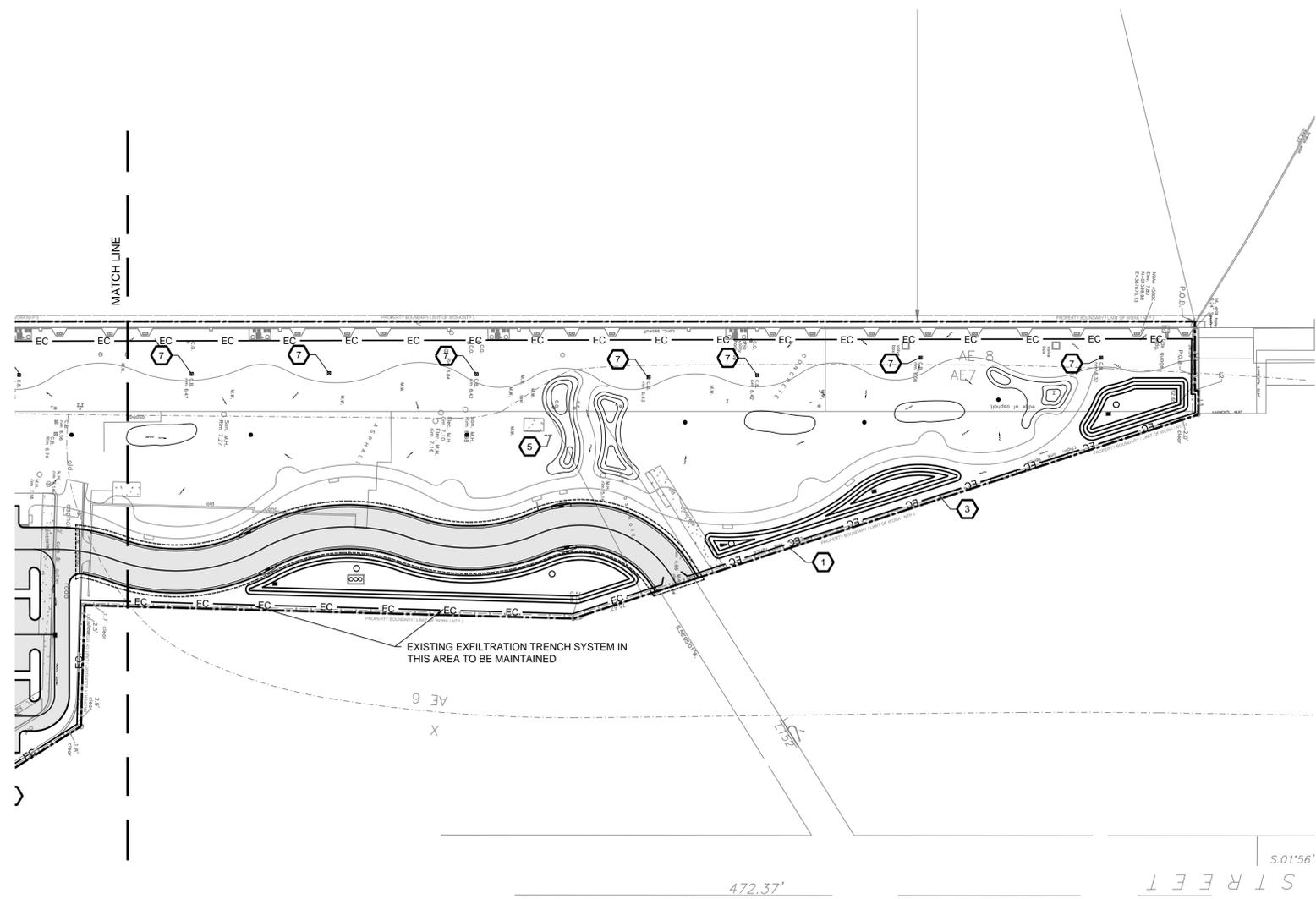
BA PROJECT NO.: 14041
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DRAWN BY: BGO
CHECKED BY: AEP

DRAWING TITLE:

**EROSION
CONTROL PLAN**

SHEET NO.

CE-02



- SWPPP SITE MAP KEY NOTES**
- ① PROJECT BOUNDARY
 - ② GRAVEL CONSTRUCTION DRIVEWAY
 - ③ EROSION CONTROL MEASURES
 - ④ TEMPORARY SANITARY SERVICES (CONTRACTOR TO LOCATE)
 - ⑤ DRAINAGE PATTERNS AFTER MAJOR GRADING, TYP.
 - ⑥ TRENCH DEWATERING LOCATIONS
 - ⑦ STORM INLETS TO BE PROTECTED DURING CONSTRUCTION (SHEET CD-01)
 - ⑧ CONSTRUCTION DUMPSTER (CONTRACTOR TO LOCATE)
 - ⑨ DIRECTION OF POSSIBLE OFF-SITE RUNOFF
 - ⑩ STREET SWEEPING (WHERE NEEDED)
 - ⑪ TRUCK WASHDOWN LOCATION
 - ⑫ TURBIDITY SCREEN



EROSION CONTROL NOTES

1. EROSION, SEDIMENT, AND TURBIDITY CONTROL MEASURES SHALL BE PROVIDED THROUGHOUT CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND REPAIRING ALL SLOPES AND SURFACES THROUGHOUT CONSTRUCTION AND UNTIL A STABLE SURFACE CONDITION EXISTS. THE CONTRACTOR SHALL MINIMIZE THE EXPOSED AREA AT ANY POINT DURING CONSTRUCTION AS MUCH AS PRACTICAL.
2. FILTER FABRIC SILT FENCE SHALL BE IN CONFORMANCE WITH SECTION 985, FDOT SPECIFICATION.
3. CONTRACTOR SHALL INSTALL EROSION CONTROLS NOTED ON DRAWINGS AND APPLICABLE PERMITS. EROSION CONTROLS SHALL BE MAINTAINED UNTIL A PERMANENT STAND OF GRASS IS PLANTED ONSITE.
4. BALED HAY OR STRAW BARRIERS SHALL BE CONSTRUCTED AND MAINTAINED IN CONFORMANCE WITH FDOT INDEX NO. 103.
5. SILT FENCE LOCATIONS SHOWN HEREON ARE FOR CLARITY ONLY AND SHOULD BE CONSTRUCTED WITHIN PROPERTY LINES.
6. PROVIDE EROSION CONTROL MEASURES CONSISTING OF STAKED SILT FENCES AND HAY BALES ALONG THE PROPOSED LIMITS OF CONSTRUCTION AS INDICATED ON THE DRAWINGS. PROVIDE ADDITIONAL MEASURES AS NECESSARY TO AVOID ADVERSE IMPACTS TO JURISDICTIONAL AREAS (WETLANDS OR WATER BODIES) AND OFF-SITE LANDS AND WATERBODIES. MAINTAIN THESE MEASURES DAILY UNTIL CONSTRUCTION ACCEPTANCE BY THE OWNER AND THEN REMOVE AND LEGALLY DISPOSE OF SAID MEASURES.
7. EROSION CONTROL SHALL MAINTAINED WITHIN CONSTRUCTION AREA BY QUICKLY STABILIZING DISTURBED AREA TO PREVENT THE RELEASE OF SEDIMENT. THIS SHALL BE ACCOMPLISHED USING GRASS COVER, HAY BALES AND OTHER MEANS ACCEPTABLE TO OWNER, ENGINEER AND REGULATORY AGENCIES.
8. DURING CONSTRUCTION, THE CONTRACTOR SHALL, AT THE REQUEST OF THE OWNER OR AS NECESSARY MODIFY, RELOCATE THE ENVIRO-FENCE AND/OR SILT FENCE TO ALLOW FOR ACCESS AND TO COMPLETE CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ADEQUATE EROSION CONTROL AT ALL TIMES.
9. DURING CONSTRUCTION, THE CONTRACTOR WILL PROVIDE TEMPORARY SEEDING AND MULCHING FOR AREA THAT HAVE BEEN CLEARED (INCLUDING AREAS OF CONCRETE AND PAVEMENT REMOVAL) AND NOT REWORKED WITHIN 7 CALENDAR DAYS DURING THE WET SEASON (APRIL THROUGH SEPTEMBER AND 14 CALENDAR DAYS DURING THE DRY SEASON (OCTOBER THROUGH MARCH). ALSO, ALL SIDE SLOPES SHALL BE SODDED OR SEEDED AND MULCHED WITHIN 7 DAYS DURING WET SEASON AND 14 DAYS DURING THE DRY SEASON.
10. ALL SURFACE WATER DISCHARGE FROM SITE, INCLUDING DEWATERING DISCHARGE SHALL MEET STATE WATER QUALITY STANDARDS (LESS THAN 29 NTU ABOVE BACKGROUND) PRIOR TO REACHING ANY WATERS OF THE STATE INCLUDING WETLAND.
11. IN THE EVENT THAT THE EROSION PREVENTION AND CONTROL DEVICES SHOWN IN THESE PLANS PROVE NOT TO BE EFFECTIVE, ALTERNATE METHODS FOR MAINTAINING STATE WATER QUALITY STANDARDS FOR DISCHARGE FROM THE CONSTRUCTION SITE WILL BE REQUIRED. ANY ALTERNATE EROSION PREVENTION AND CONTROL DEVICES MUST BE APPROVED BY THE CITY AND SFWMD COMPLIANCE PERSONNEL PRIOR TO PLACEMENT.

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CONTAMINATED SOIL MUST BE REMOVED AND STOCKPILED IMMEDIATELY, AND PROTECTED AGAINST RUNOFF WHILE AWAITING TESTING/OFFSITE DISPOSAL. CONTRACTOR TO REFER TO "GROUNDWATER AND SOIL MANAGEMENT PLAN"

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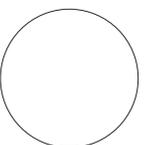
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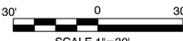
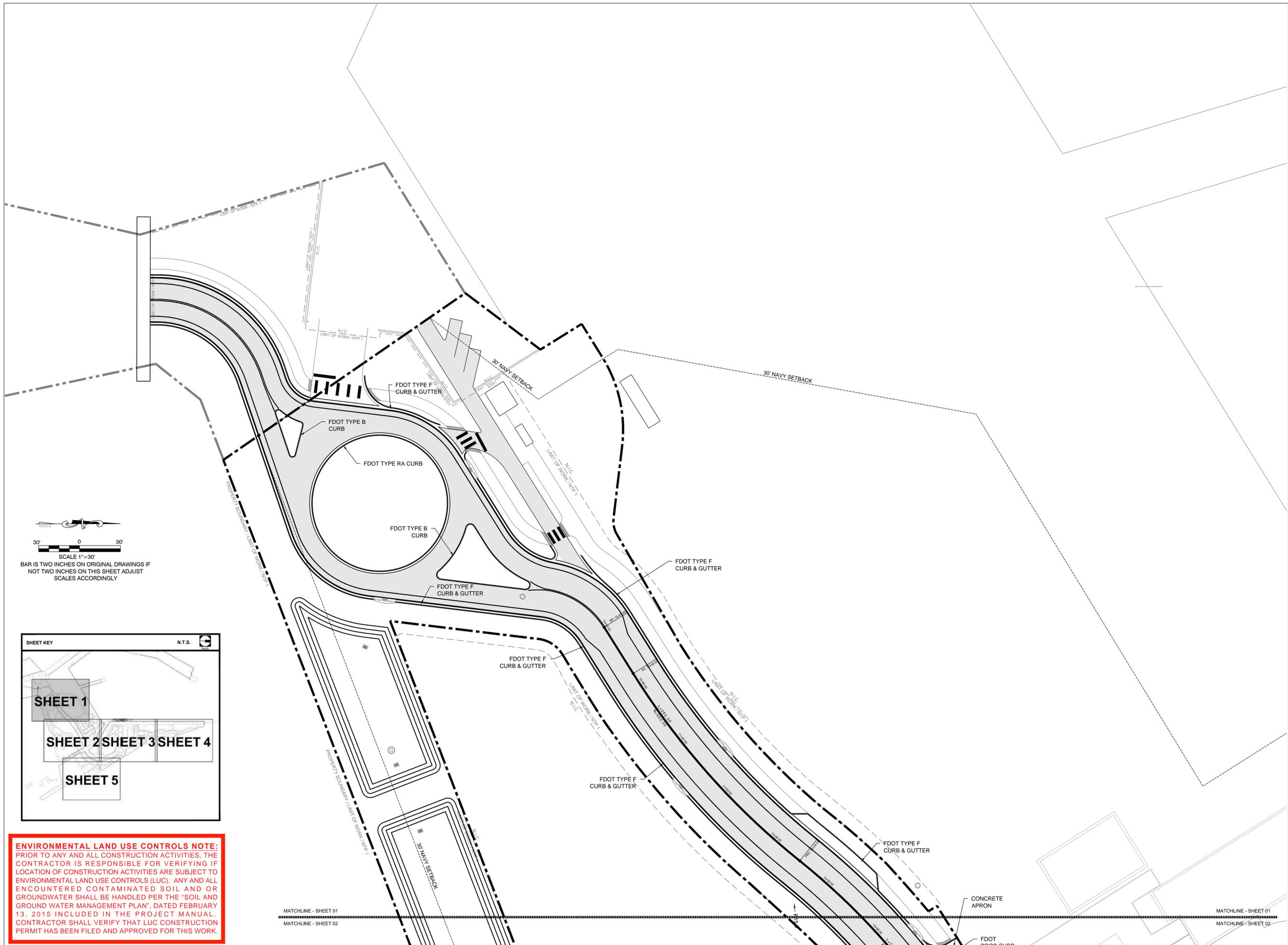
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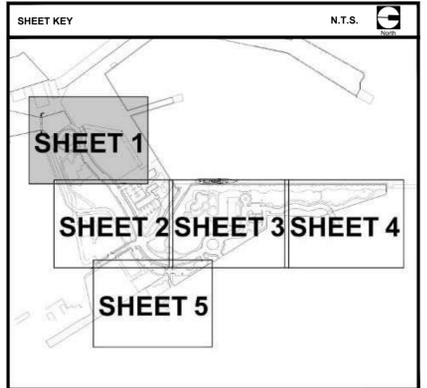
DRAWING TITLE:
**SITE GEOMETRY
PLAN**

SHEET NO.

CG-01



SCALE 1"=30'
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NOT TWO INCHES ON THIS SHEET ADJUST
SCALES ACCORDINGLY



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MATCHLINE - SHEET 01
MATCHLINE - SHEET 02

MATCHLINE - SHEET 01
MATCHLINE - SHEET 02



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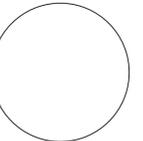
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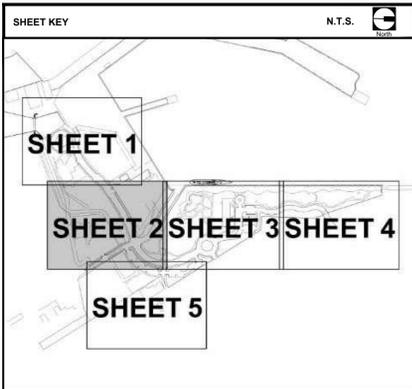
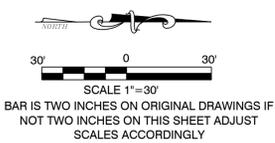
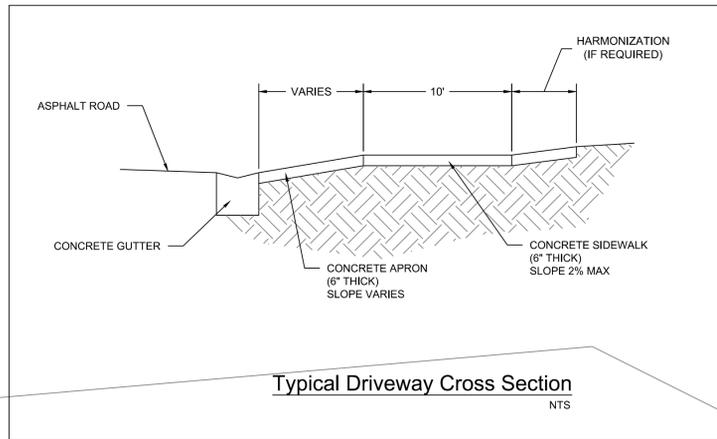
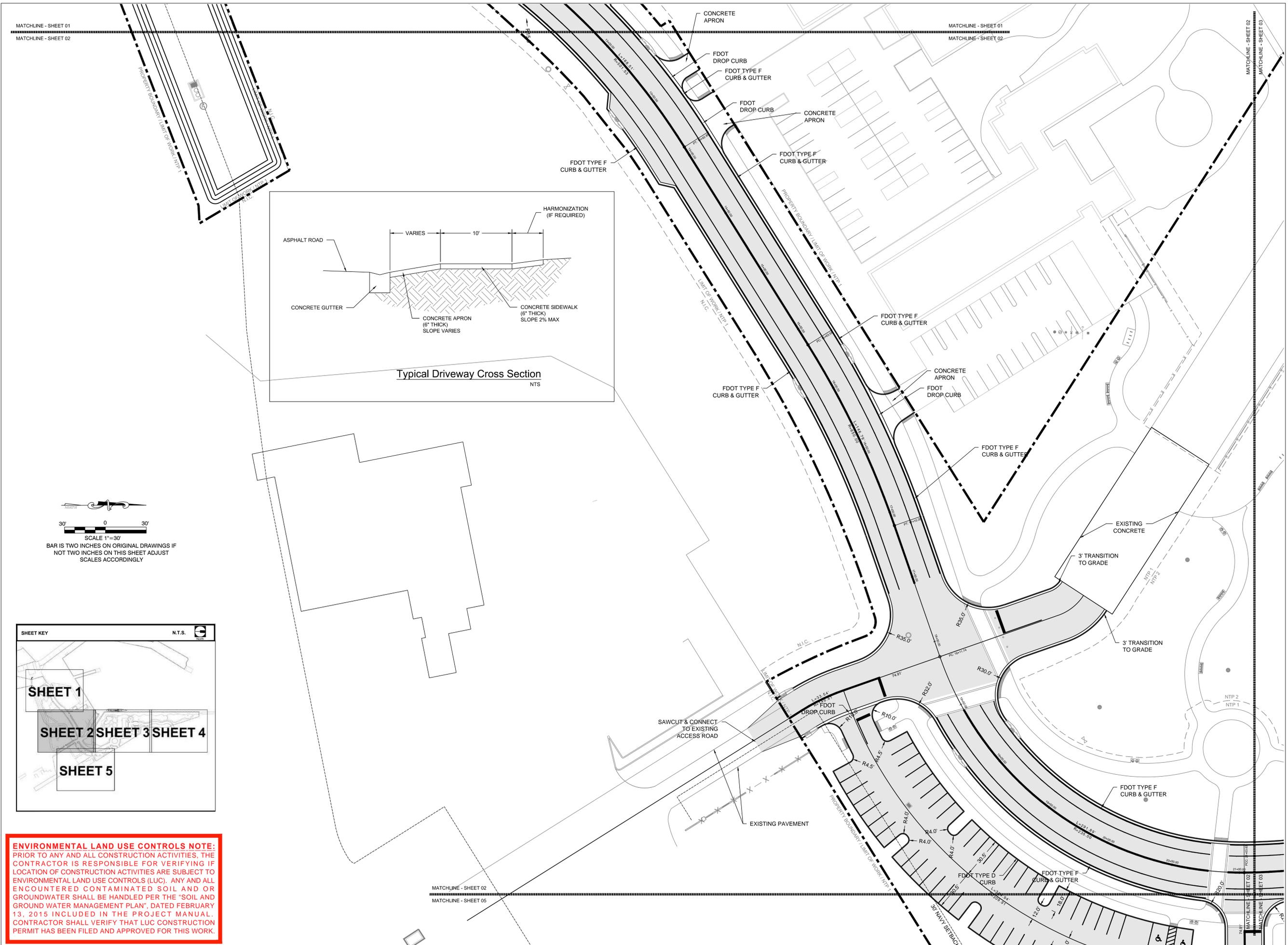
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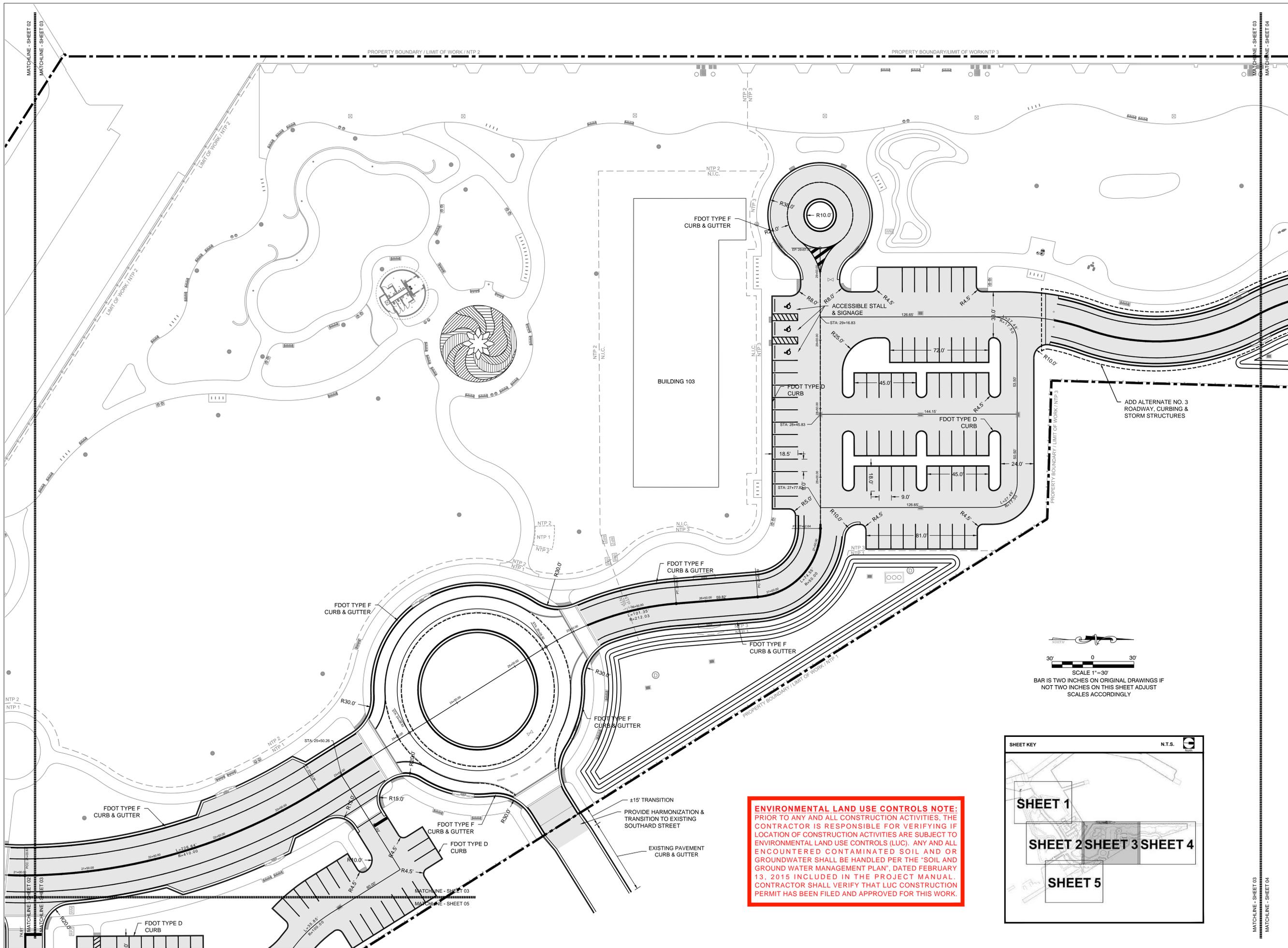
**SITE GEOMETRY
PLAN**

SHEET NO.

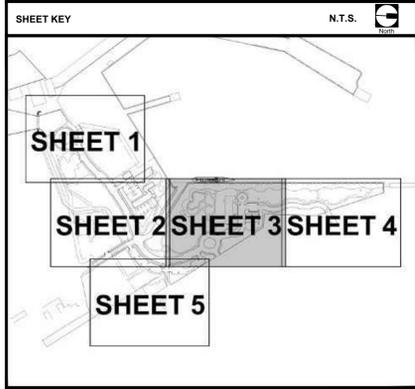
CG-02



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PREPARED FOR OWNER:
CITY OF KEY WEST, FL
 P. O. BOX 1409
 3140 FLAGLER AVENUE
 KEY WEST, FL 33041



PROJECT NAME:
TRUMAN WATERFRONT PARK

PROJECT LOCATION/ADDRESS:
 TRUMAN WATERFRONT PARK
 WEST OF FORT STREET AND THE
 TRUMAN ANNEX DEVELOPMENT,
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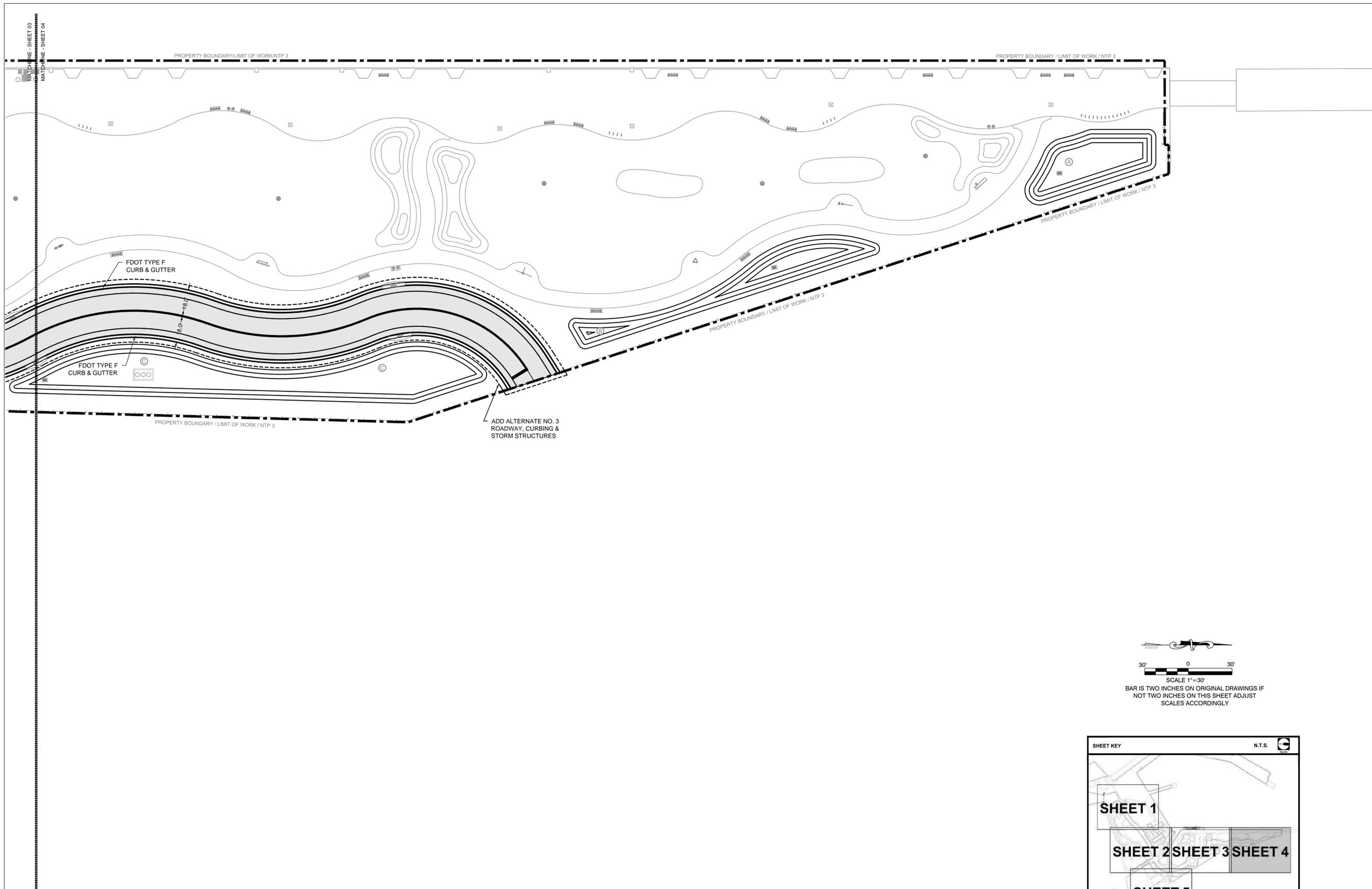
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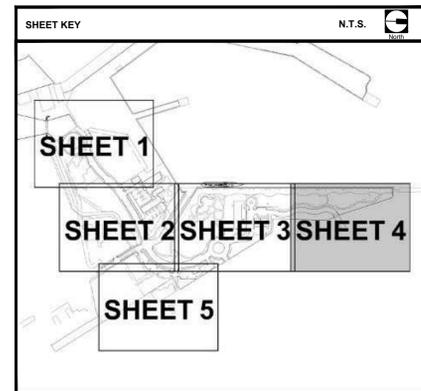
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 BA PROJECT NO.: 14041
 SCALE: 1" = 30'
 DATE: June 25, 2015
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DRAWING TITLE:
SITE GEOMETRY PLAN

SHEET NO.
CG-03



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PROJECT NAME:

TRUMAN WATERFRONT PARK

PROJECT LOCATION/ADDRESS:

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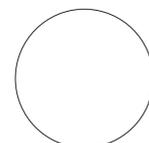
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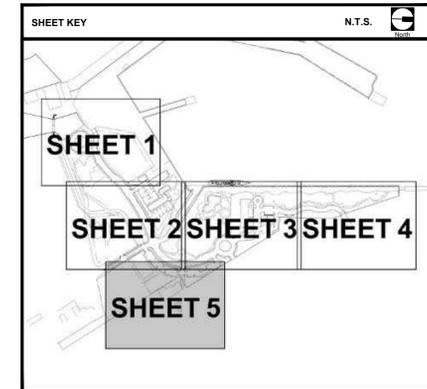
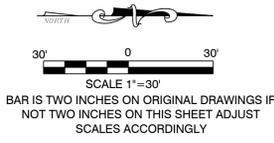
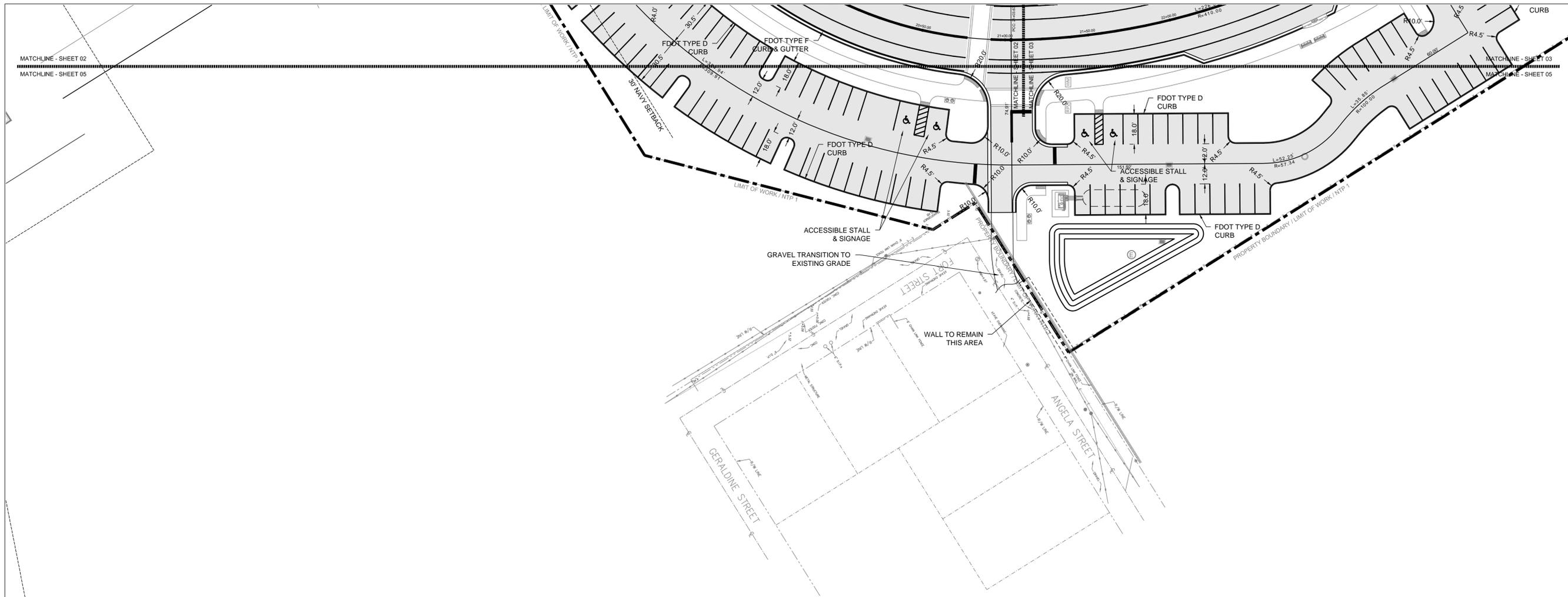
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DRAWING TITLE:
SITE GEOMETRY PLAN

SHEET NO.

CG-04



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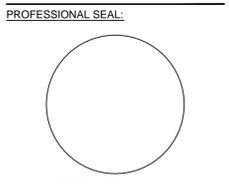


PROJECT NAME:
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PROJECT LOCATION/ADDRESS:
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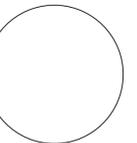
PROJECT NAME:
TRUMAN WATERFRONT PARK

PROJECT LOCATION/ADDRESS:
TRUMAN WATERFRONT PARK
WEST OF FORT STREET AND THE
TRUMAN ANNEX DEVELOPMENT,
NORTH OF KEY WEST NAVAL BASE

SUB-CONSULTANT INFORMATION:
PEREZ ENGINEERING & DEVELOPMENT, INC.
Certificate of Authorization No. 8579

1010 Kennedy Drive
Suite 201
Key West, Florida 33040
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PROFESSIONAL SEAL:



ALLEN E. PEREZ, P.E.
FLORIDA REGISTERED ENGINEER
51468

SUBMITTAL DESCRIPTION / MILESTONE:

BIDDING
August 30, 2015

REVISIONS:

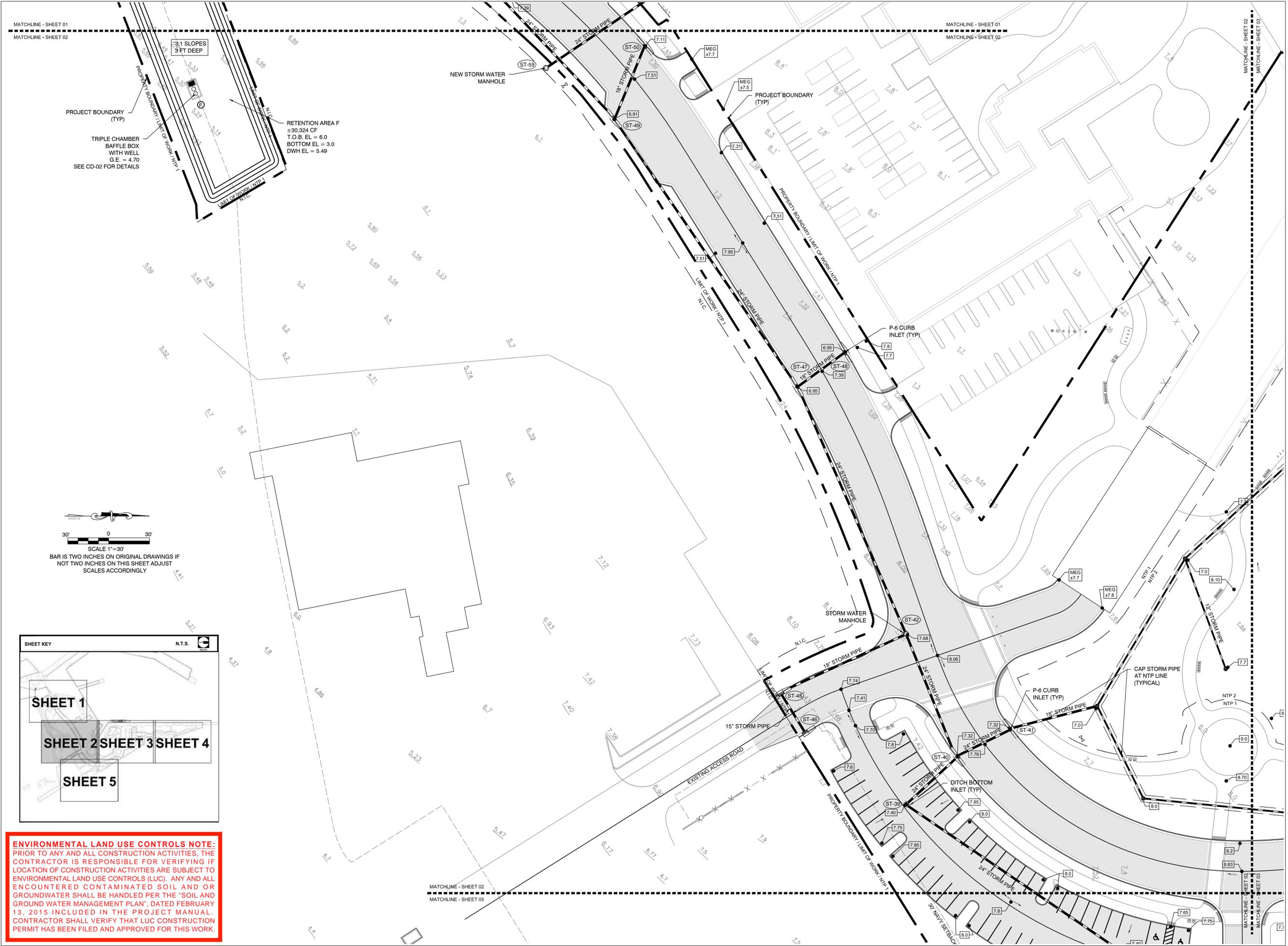
NO.	DESCRIPTION

DRAWING SHEET INFORMATION

BA PROJECT NO.: 14041
SCALE: 1" = 30'
DATE: June 25, 2015
DRAWN BY: BGO
CHECKED BY: AEP

DRAWING TITLE:
**PAVING, GRADING,
& DRAINAGE PLAN**

SHEET NO.
CP-02



MATCHLINE - SHEET 01
MATCHLINE - SHEET 02

MATCHLINE - SHEET 01
MATCHLINE - SHEET 02

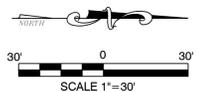
MATCHLINE - SHEET 02
MATCHLINE - SHEET 03

MATCHLINE - SHEET 02
MATCHLINE - SHEET 03

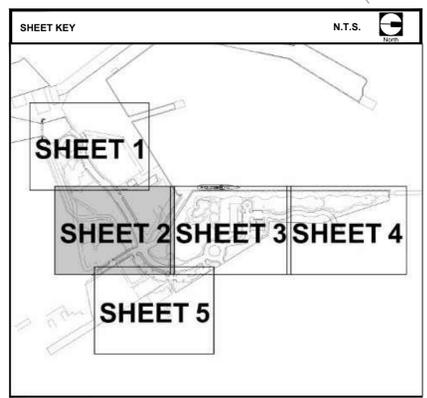
3:1 SLOPES
3 FT DEEP

RETENTION AREA F
±30,324 CF
T.O.B. EL = 6.0
BOTTOM EL = 3.0
DWH EL = 5.49

TRIPLE CHAMBER
BAFFLE BOX
WITH WELL
G.E. = 4.70
SEE CD-02 FOR DETAILS



SCALE 1"=30'
BAR IS TWO INCHES ON ORIGINAL DRAWINGS IF
NOT TWO INCHES ON THIS SHEET ADJUST
SCALES ACCORDINGLY



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PREPARED FOR OWNER:
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P. O. BOX 1409
3140 FLAGLER AVENUE
KEY WEST, FL 33041



PROJECT NAME:

TRUMAN WATERFRONT PARK

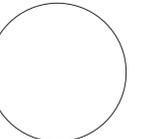
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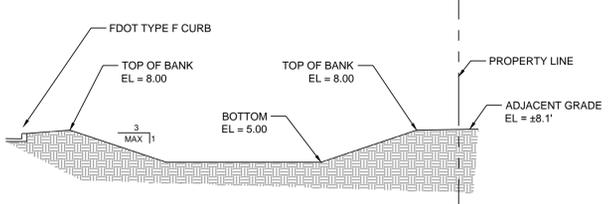
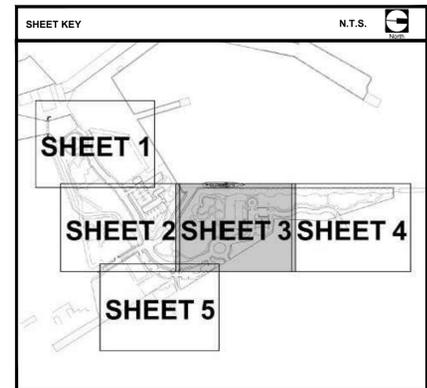
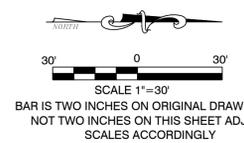
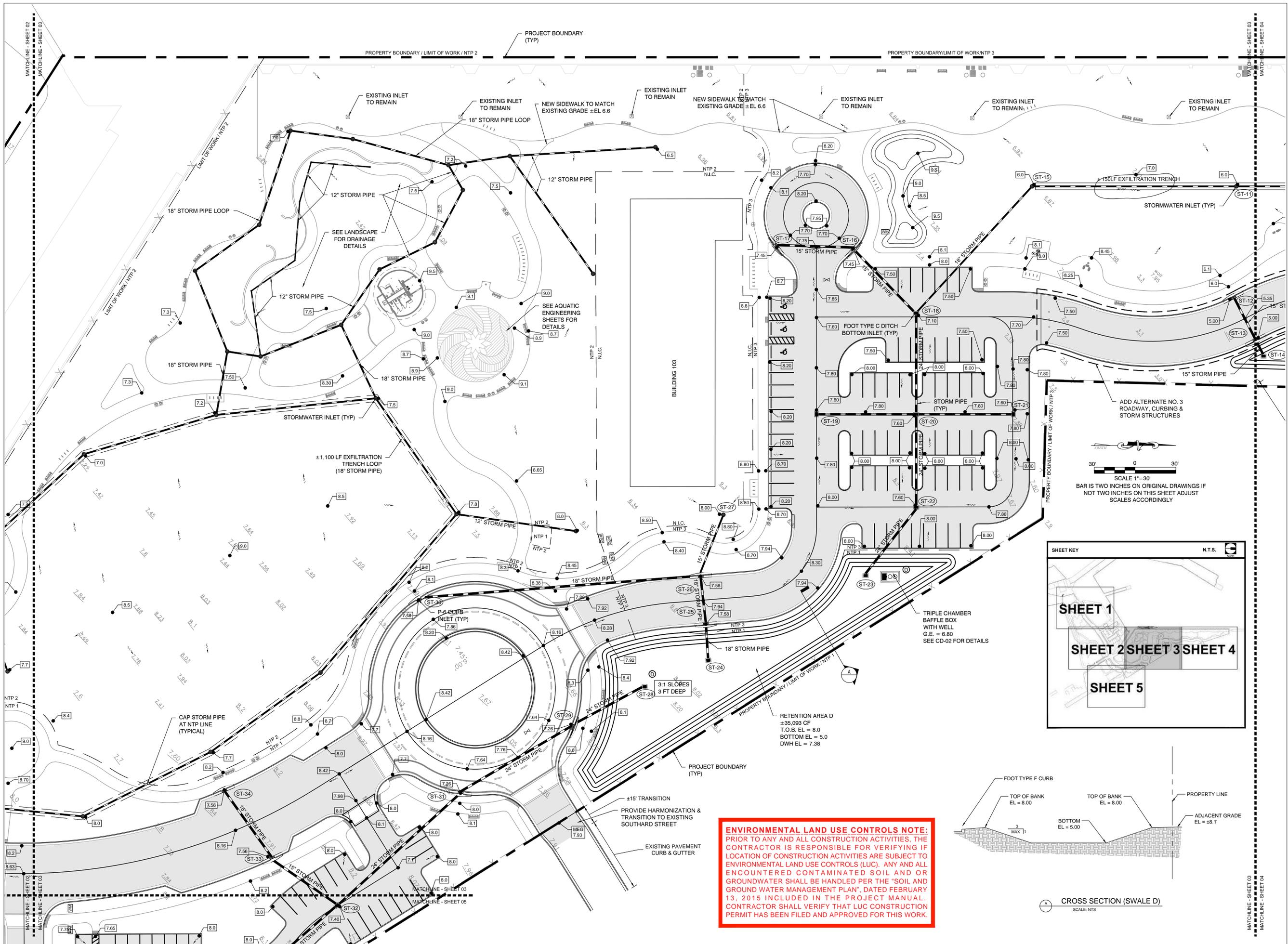
DRAWING SHEET INFORMATION

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DRAWN BY: BGO
CHECKED BY: AEP

DRAWING TITLE:
**PAVING, GRADING,
& DRAINAGE PLAN**

SHEET NO.

CP-03



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3140 FLAGLER AVENUE
KEY WEST, FL 33041



PROJECT NAME:

TRUMAN WATERFRONT PARK

PROJECT LOCATION/ADDRESS:
TRUMAN WATERFRONT PARK
WEST OF FORT STREET AND THE
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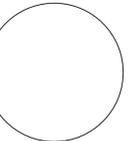
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BIDDING
August 30, 2015

REVISIONS:

NO.	DESCRIPTION

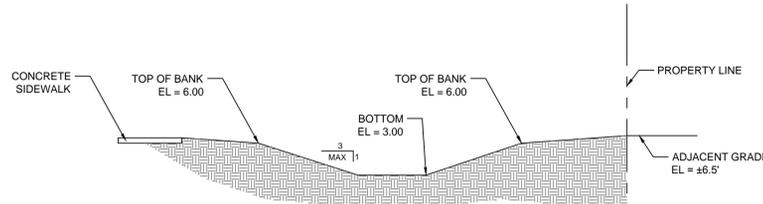
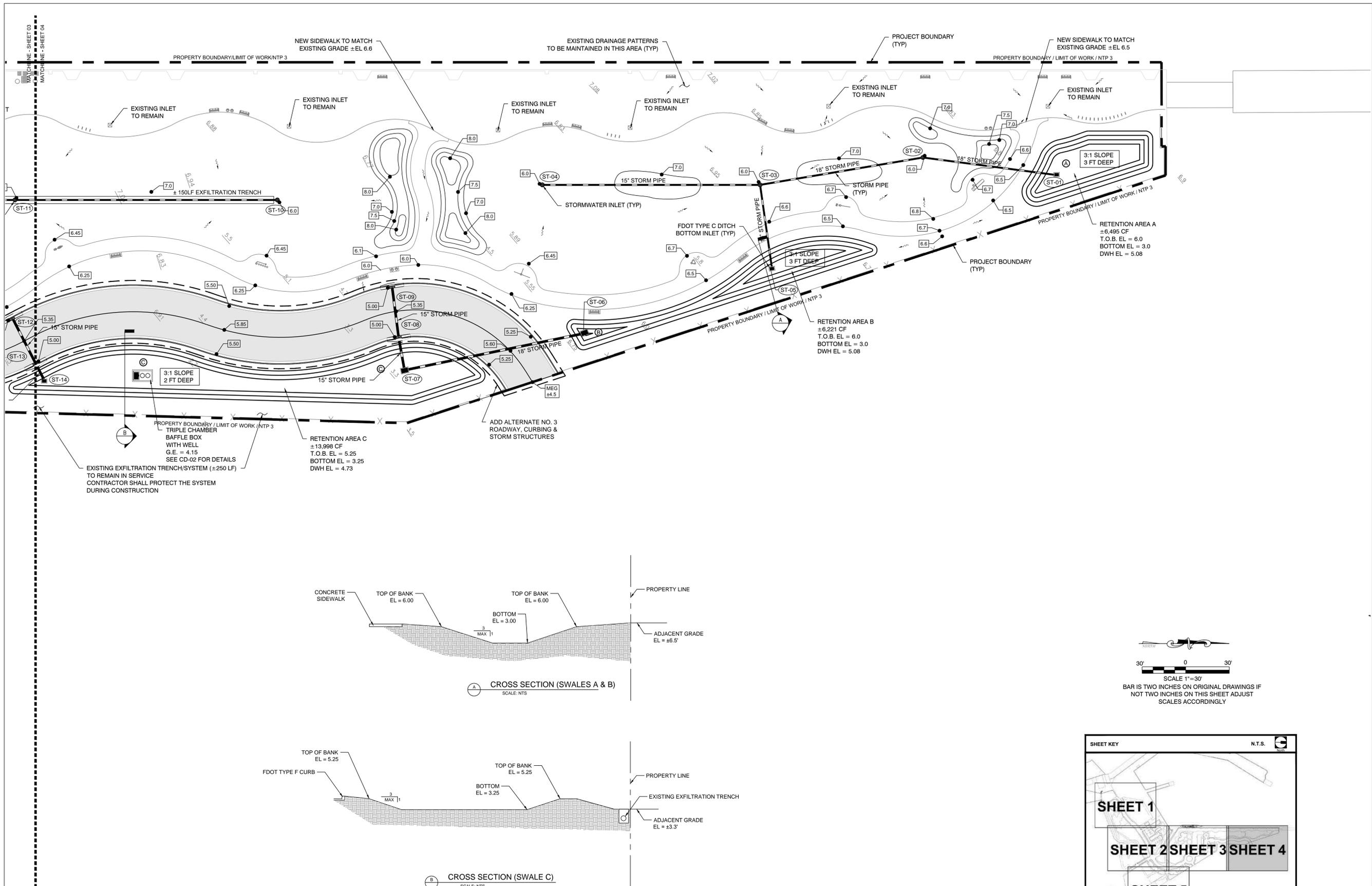
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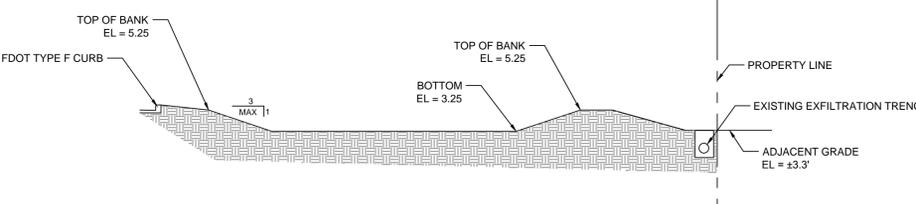
DRAWING TITLE:
**PAVING, GRADING,
& DRAINAGE PLAN**

SHEET NO.

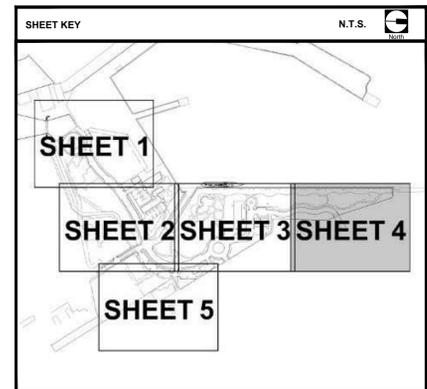
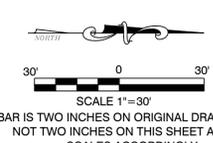
CP-04



CROSS SECTION (SWALES A & B)
SCALE: N.T.S.



CROSS SECTION (SWALE C)
SCALE: N.T.S.

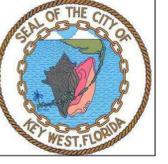


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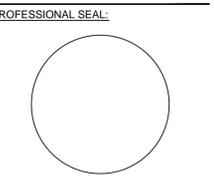
PREPARED FOR/OWNER:
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 3140 FLAGLER AVENUE
 KEY WEST, FL 33041



PROJECT NAME:
TRUMAN WATERFRONT PARK
 PROJECT LOCATION/ADDRESS:
TRUMAN WATERFRONT PARK
 WEST OF FORT STREET AND THE
 TRUMAN ANNEX DEVELOPMENT,
 NORTH OF KEY WEST NAVAL BASE

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 51468

SUBMITTAL DESCRIPTION / MILESTONE:

BIDDING
August 30, 2015

REVISIONS:

DRAWING SHEET INFORMATION
 BA PROJECT NO.: 14041
 SCALE: 1" = 30'
 DATE: June 25, 2015
 DRAWN BY: BGO
 CHECKED BY: AEP

DRAWING TITLE:
**PAVING, GRADING,
 & DRAINAGE PLAN**

SHEET NO.
CP-05



STRUCTURE TABLE

Structure	Type	G.E.	Invert			
			N	S	E	W
ST-01	FDOT Type C	3.00	--	2.20	--	--
ST-02	12" Nyloplast Yard Basin	6.00	1.90	1.90	--	--
ST-03	12" Nyloplast Yard Basin	6.00	1.55	1.80 (15")	1.55	--
ST-04	12" Nyloplast Yard Basin	6.00	2.25	--	--	--
ST-05	FDOT Type C	3.00	--	--	--	1.35
ST-06	FDOT Type C	4.70	--	(-) 3.80	--	--
ST-07	FDOT Type C	3.25	(-) 4.30	--	--	0.45 (15")
ST-08	FDOT Type 6	5.00	--	--	0.55	0.55
ST-09	FDOT Type 6	5.00	--	--	0.75	--
ST-10	12" Nyloplast Yard Basin	6.00	--	2.25	--	--
ST-11	12" Nyloplast Yard Basin	6.00	1.85 (15")	1.60	--	--
ST-12	FDOT Type 6	5.00	--	--	0.75	--
ST-13	FDOT Type 6	5.00	--	--	0.55	0.55
ST-14	FDOT Type C	3.25	--	--	--	0.45
ST-15	12" Nyloplast Yard Basin	6.00	1.20	1.20 (SE)	--	--
ST-16	FDOT Type 6	7.45	--	2.55	2.55 (NE)	--
ST-17	FDOT Type 6	7.45	2.75	--	--	--
ST-18	FDOT Type C	7.10	0.90 (NW)	--	0.40	2.25 (SW) (15")
ST-19	FDOT Type C	7.60	2.85	--	--	--
ST-20	FDOT Type C	7.60	2.55 (15")	2.55 (15")	0.20	0.20
ST-21	FDOT Type C	7.60	--	2.85	--	--
ST-22	FDOT Type C	7.60	--	0.00 (SE)	--	0.00
ST-23	FDOT Type C	5.00	(-) 0.20	--	--	--
ST-24	FDOT Type C	5.00	--	--	--	(-) 1.00
ST-25	FDOT Type 6	7.58	--	--	(-) 0.90	(-) 0.90
ST-26	FDOT Type 6	7.58	--	2.65	(-) 0.70	2.90 (15")
ST-27	12" Nyloplast Yard Basin	8.00	--	--	3.05	--
ST-28	FDOT Type C	5.00	--	--	--	--
ST-29	FDOT Type 6	7.26	(-) 1.60 (NW)	(-) 1.60 (SE)	--	--
ST-30	FDOT Type 6	7.48	3.25	--	--	--
ST-31	FDOT Type 6	7.26	(-) 1.30 (NW)	(-) 1.30 (SE)	--	--
ST-32	FDOT Type C	7.40	(-) 0.90 (NW)	(-) 0.90 (SE)	--	1.30 (SW) (15")
ST-33	FDOT Type 6	7.56	--	--	1.55 (NE)	1.55
ST-34	FDOT Type 6	7.56	--	--	1.80	--
ST-35	Stormwater Manhole	7.80	(-) 0.65 (NW)	(-) 0.65	--	--
ST-36	FDOT Type C	7.40	(-) 0.40	(-) 0.40	0.10 (18")	--
ST-37	FDOT Type C	5.00	--	--	--	0.30
ST-38	FDOT Type C	7.40	0.20	--	--	0.20 (SW)
ST-39	FDOT Type C	7.40	0.65 (NW)	--	0.65 (NE)	--
ST-40	FDOT Type 6	7.32	1.25 (NW)	0.85 (SE)	--	0.85 (SW)
ST-41	FDOT Type 6	7.32	1.35 (NW)	1.35 (SE)	--	--
ST-42	Stormwater Manhole	7.68	1.60 (NW)	2.30 (SE) (18")	1.10 (NE)	1.10 (SW)
ST-43	NOT USED	--	--	--	--	--
ST-44	NOT USED	--	--	--	--	--
ST-45	FDOT Type 5	7.20	2.60 (NW)	--	2.85 (NE) (15")	--
ST-46	FDOT Type 5	7.20	--	--	--	2.95 (SW)
ST-47	FDOT Type 6	6.95	1.90 (NW) (18")	--	0.20 (NE)	0.20 (SW)
ST-48	FDOT Type 6	6.95	--	2.00 (SE)	--	--
ST-49	FDOT Type 6	6.91	(-) 1.00 (NW) (18")	--	(-) 1.00 (NE)	(-) 1.00 (SW)
ST-50	FDOT Type 6	7.11	--	(-) 0.80 (SE)	--	--
ST-51	FDOT Type 6	7.10	--	(-) 1.00 (SE)	--	--
ST-52	FDOT Type 6	7.10	(-) 1.20 (NW) (18")	--	(-) 1.70 (NE)	(-) 1.70 (SW)
ST-53	Stormwater Manhole	7.48	--	(-) 2.45	(-) 2.45 (NE)	--
ST-54	FDOT Type 6	6.80	0.50 (NW) (18")	(-) 2.80 (SE)	(-) 2.80 (NE)	--
ST-55	FDOT Type C	3.00	(-) 3.00 (NW)	--	--	--
ST-56	FDOT Type 6	6.80	--	1.00 (SE)	--	--
ST-57	FDOT Type C	3.00	--	--	(-) 1.00	--
ST-58	FDOT Type C	3.00	--	--	--	(-) 1.00
ST-59	Stormwater Manhole	7.30	(-) 4.5 (NW)	0.10 (+/-) (SE)	--	--
ST-60	Stormwater Manhole	7.60	0.00 (+/-) (NW)	(-) 4.6 (SE)	--	--

Water Quantity Calculations - 25yr/72hr Design Storm

Water Quantity - Predevelopment

Project Area	A =	20.085	ac	874,884	sf
Pervious Area		10.860	ac	473,060	sf
Impervious Area		9.225	ac	401,824	sf
% Impervious		45.93%			
Rainfall for 25yr/24hr event	P ₂₄ =	9	in		
Rainfall for 25yr/3day event	P ₇₂ =	12.23	in		
Depth to Water Table		4	ft		
Predeveloped Available Storage		8.18	in		
Soil Storage	S =	4.42	in		
Q _{pre} = (P ₇₂ - 0.25)² / (P ₇₂ + 0.85)	Q _{pre} =	8.16	in		
Runoff Volume from 25 year/ 3 day storm	V _{25yr/72h} =	163.97	ac-in		

Water Quantity - Postdevelopment

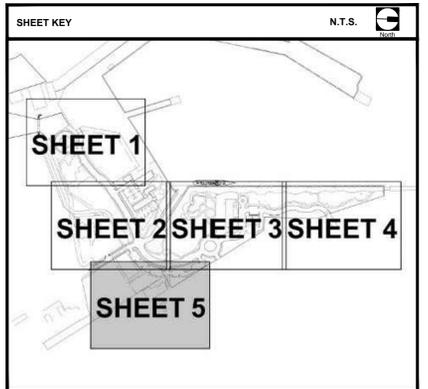
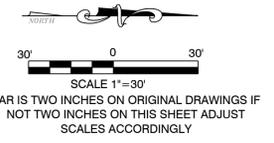
Project Area	A =	20.085	ac	874,884	sf
Pervious Area		9.548	ac	415,910	sf
Impervious Area		10.537	ac	458,974	sf
% Impervious		52.5%			
Rainfall for 25yr/24hr event	P ₂₄ =	9	in		
Rainfall for 25yr/3day event	P ₇₂ =	12.23	in		
Depth to Water Table		4	ft		
Developed Available Storage		8.18	in		
Soil Storage	S =	3.89	in		
Q _{post} = (P ₂₄ - 0.25)² / (P ₂₄ + 0.85)	Q _{post} =	8.55	in		
Runoff Volume from 25 year/ 3 day storm	V _{25yr/72h} =	171.73	ac-in		

Postdevelopment - Predevelopment

Q _{pre-post} = Q _{post} - Q _{pre}	Q _{pre-post} =	0.39	in		
Pre/Post Volume = Q _{pre-post} x A	V _{pre-post} =	7.76	ac-in		

WATER QUALITY/PRETREATMENT CALCULATIONS

Basin	Total Area Acres	Impervious Area Acres	Roof Area Acres	Impervious for Water Quality (Acres)	1 ac-in Over Area	2.5 x Impervious	Required Volume Cubic Feet	Dry Retention Volume Cubic Feet	Exfiltration Volume Cubic Feet	Total Retention Cubic Feet
1	1.254	0.144	0.000	0.144	1.254	0.361	4553.25	4,958	0	4,958
2	1.091	0.559	0.000	0.559	1.091	1.399	5077.08	5,301	0	5,301
3	6.572	4.040	0.164	3.876	6.572	9.690	35173.75	21,826	20,784	42,609
4	4.884	1.692	0.172	1.521	4.884	3.802	17730.17	0	76,206	76,206
5	4.163	2.650	0.000	2.650	4.163	6.624	24045.63	25,103	0	25,103
TOTAL										154,178



Exfiltration Trench Design

Required trench length (L) =

$$K \frac{v}{(H^2W + 2H^2Du - Du^2 + 2H2Ds) + 1.39x10^{-4}(W)(Du)}$$

Hydraulic Conductivity, K = 0.000514

H =	4	ft
W =	5	ft
Du =	2.5	ft
Ds =	0	ft

Trench Length Provided = 300 FT

Volume of Trench, V = 5.726 ac-in

Exfiltration Trench Design

Required trench length (L) =

$$K \frac{v}{(H^2W + 2H^2Du - Du^2 + 2H2Ds) + 1.39x10^{-4}(W)(Du)}$$

Hydraulic Conductivity, K = 0.000514

H =	4	ft
W =	5	ft
Du =	2.5	ft
Ds =	0	ft

Trench Length Provided = 1,100 FT

Volume of Trench, V = 20.994 ac-in

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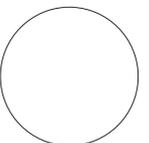
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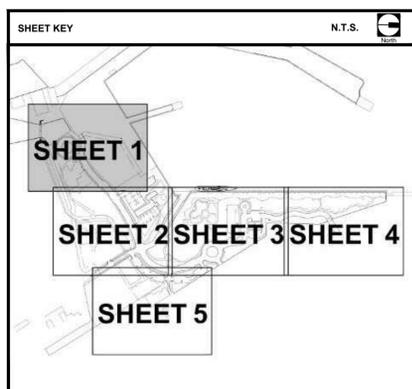
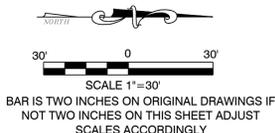
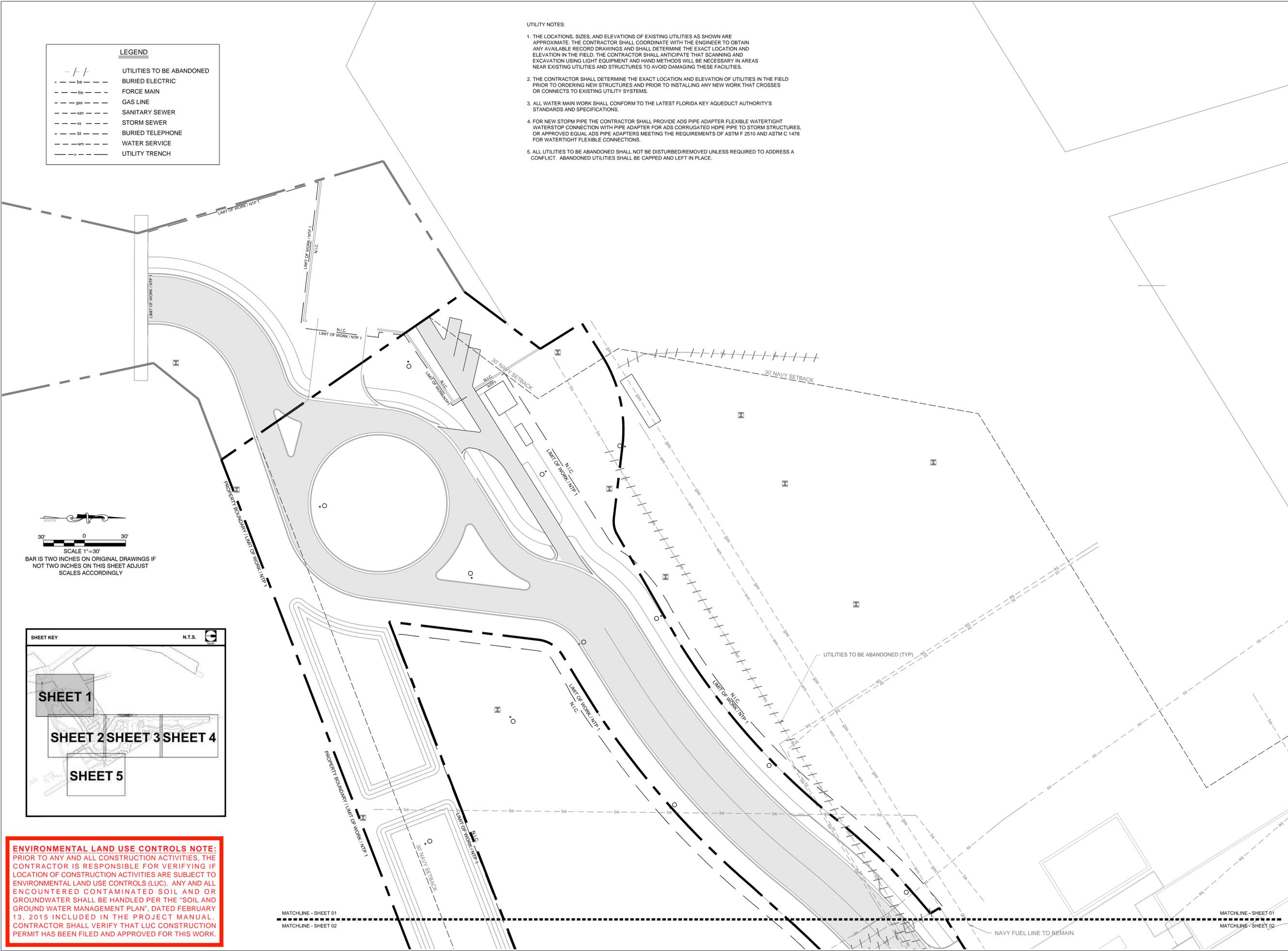
DRAWING TITLE:
UTILITY ABANDONMENT PLAN
SHEET NO.

CA-01

UTILITY NOTES:

1. THE LOCATIONS, SIZES, AND ELEVATIONS OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO OBTAIN ANY AVAILABLE RECORD DRAWINGS AND SHALL DETERMINE THE EXACT LOCATION AND ELEVATION IN THE FIELD. THE CONTRACTOR SHALL ANTICIPATE THAT SCANNING AND EXCAVATION USING LIGHT EQUIPMENT AND HAND METHODS WILL BE NECESSARY IN AREAS NEAR EXISTING UTILITIES AND STRUCTURES TO AVOID DAMAGING THESE FACILITIES.
2. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND ELEVATION OF UTILITIES IN THE FIELD PRIOR TO ORDERING NEW STRUCTURES AND PRIOR TO INSTALLING ANY NEW WORK THAT CROSSES OR CONNECTS TO EXISTING UTILITY SYSTEMS.
3. ALL WATER MAIN WORK SHALL CONFORM TO THE LATEST FLORIDA KEY AQUEDUCT AUTHORITY'S STANDARDS AND SPECIFICATIONS.
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LEGEND	
- - - / - - -	UTILITIES TO BE ABANDONED
- - - be - - -	BURIED ELECTRIC
- - - fm - - -	FORCE MAIN
- - - gas - - -	GAS LINE
- - - san - - -	SANITARY SEWER
- - - ss - - -	STORM SEWER
- - - bt - - -	BURIED TELEPHONE
- - - wm - - -	WATER SERVICE
- - - > - - -	UTILITY TRENCH



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MATCHLINE - SHEET 01
MATCHLINE - SHEET 02

MATCHLINE - SHEET 01
MATCHLINE - SHEET 02



**BERMELLO AJAMIL
& PARTNERS • INC**

Architecture • Engineering • Planning
Interior Design • Landscape Architecture
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(305) 859-2050
Fax (305) 860-3700

PREPARED FOR/OWNER:
CITY OF KEY WEST, FL
P. O. BOX 1409
3140 FLAGLER AVENUE
KEY WEST, FL 33041



PROJECT NAME:

**TRUMAN
WATERFRONT
PARK**

PROJECT LOCATION/ADDRESS:

TRUMAN WATERFRONT PARK
WEST OF FORT STREET AND THE
TRUMAN ANNEX DEVELOPMENT,
NORTH OF KEY WEST NAVAL BASE

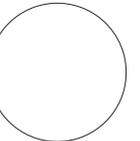
SUB-CONSULTANT INFORMATION:

**PEREZ ENGINEERING &
DEVELOPMENT, INC.**

Certificate of Authorization No. 8579

1010 Kennedy Drive
Suite 201
Key West, Florida 33040
(305) 293-9440
Fax (305) 296-0243

PROFESSIONAL SEAL:



ALLEN E. PEREZ, P.E.
FLORIDA REGISTERED ENGINEER
51468

SUBMITTAL DESCRIPTION / MILESTONE:

**BIDDING
August 30, 2015**

REVISIONS:

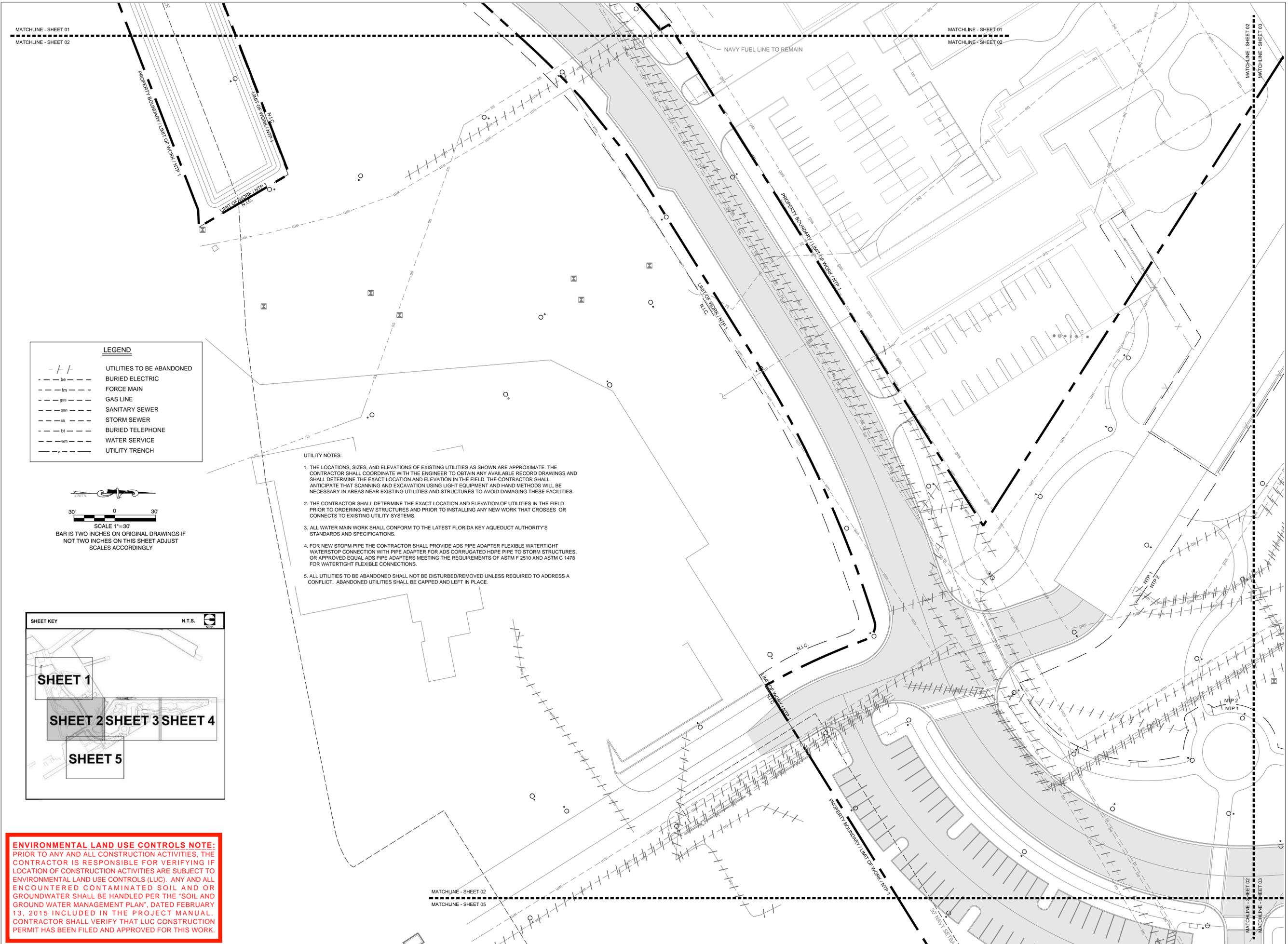
NO.	DESCRIPTION

DRAWING SHEET INFORMATION

BA PROJECT NO.: 14041
SCALE: 1" = 30'
DATE: June 25, 2015
DRAWN BY: BGO
CHECKED BY: AEP

DRAWING TITLE:
**UTILITY
ABANDONMENT
PLAN**
SHEET NO.

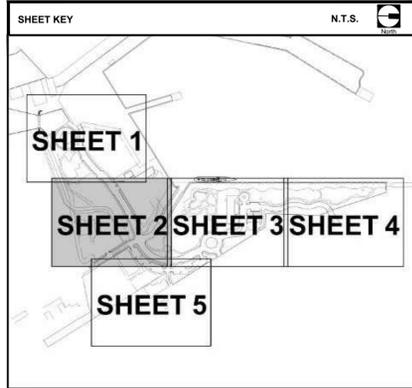
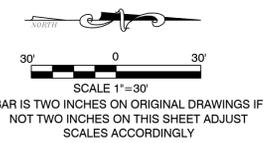
CA-02



LEGEND

- / -	UTILITIES TO BE ABANDONED
---be---	BURIED ELECTRIC
---fm---	FORCE MAIN
---gas---	GAS LINE
---san---	SANITARY SEWER
---ss---	STORM SEWER
---bt---	BURIED TELEPHONE
---wm---	WATER SERVICE
--->---	UTILITY TRENCH

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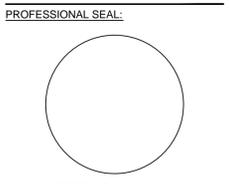


PROJECT NAME:
TRUMAN WATERFRONT PARK

PROJECT LOCATION/ADDRESS:
TRUMAN WATERFRONT PARK
WEST OF FORT STREET AND THE
TRUMAN ANNEX DEVELOPMENT,
NORTH OF KEY WEST NAVAL BASE

SUB-CONSULTANT INFORMATION:
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51468

SUBMITTAL DESCRIPTION / MILESTONE:

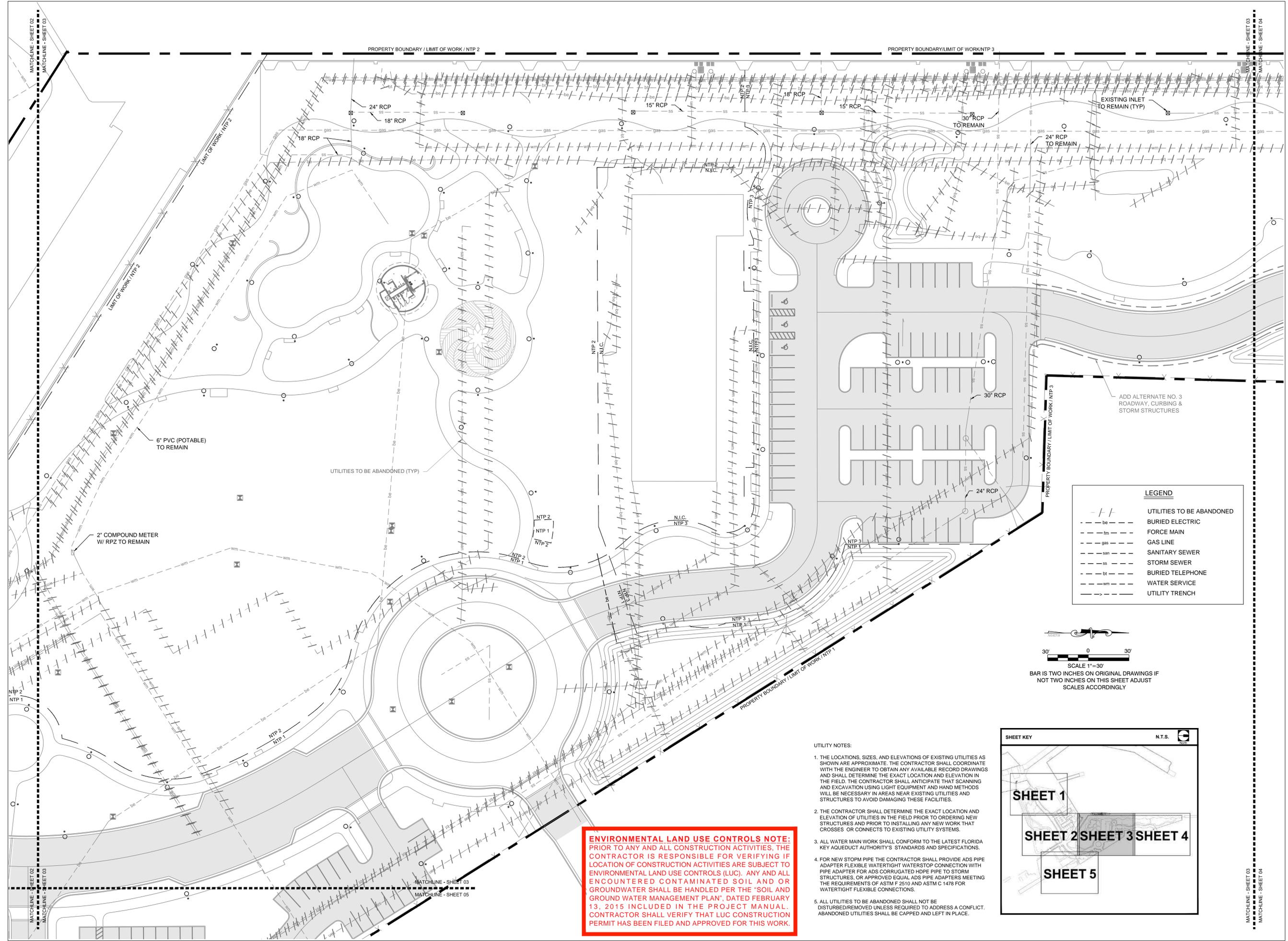
BIDDING
August 30, 2015

REVISIONS:

DRAWING SHEET INFORMATION
BA PROJECT NO.: 14041
SCALE: 1" = 30'
DATE: June 25, 2015
DRAWN BY: BGO
CHECKED BY: AEP

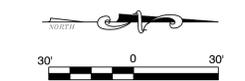
DRAWING TITLE:
**UTILITY
ABANDONMENT
PLAN**
SHEET NO.

CA-03



LEGEND

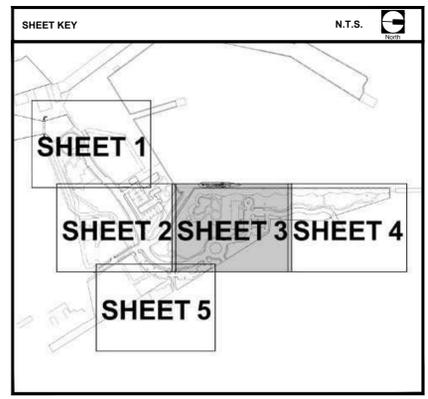
- - - -	UTILITIES TO BE ABANDONED
- - - - be - - - -	BURIED ELECTRIC
- - - - fm - - - -	FORCE MAIN
- - - - gas - - - -	GAS LINE
- - - - san - - - -	SANITARY SEWER
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- - - - bt - - - -	BURIED TELEPHONE
- - - - wm - - - -	WATER SERVICE
- - - - - - - -	UTILITY TRENCH

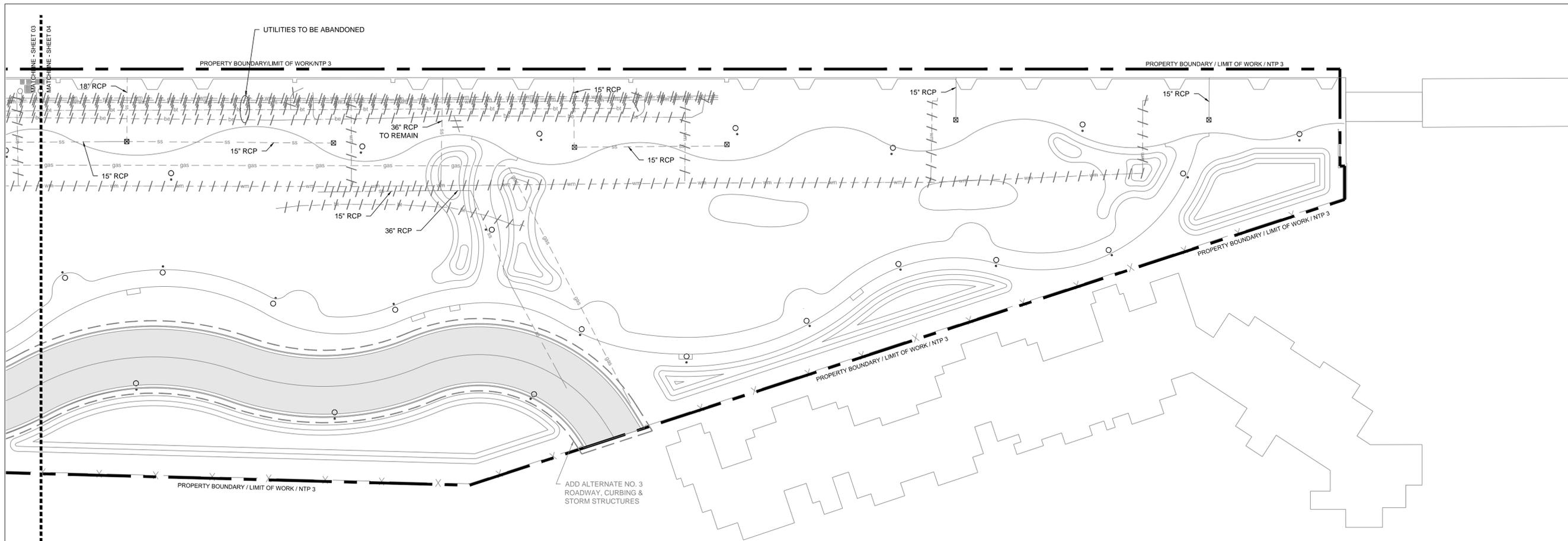


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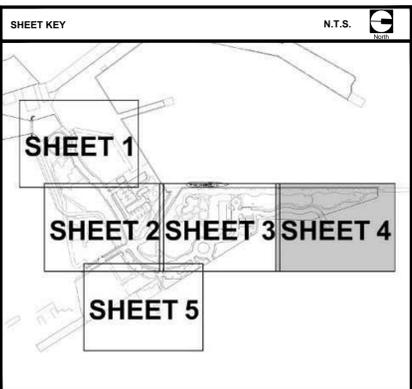
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- - - - - be - - - - -	BURIED ELECTRIC
- - - - - fm - - - - -	FORCE MAIN
- - - - - gas - - - - -	GAS LINE
- - - - - san - - - - -	SANITARY SEWER
- - - - - ss - - - - -	STORM SEWER
- - - - - bt - - - - -	BURIED TELEPHONE
- - - - - wm - - - - -	WATER SERVICE
- - - - -	UTILITY TRENCH



SCALE 1" = 30'
 BAR IS TWO INCHES ON ORIGINAL DRAWINGS IF
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 SCALES ACCORDINGLY



PREPARED FOR/OWNER:
 CITY OF KEY WEST, FL
 P. O. BOX 1409
 3140 FLAGLER AVENUE
 KEY WEST, FL 33041

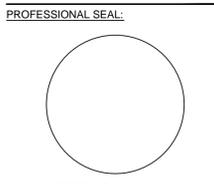


PROJECT NAME:
TRUMAN WATERFRONT PARK

PROJECT LOCATION/ADDRESS:
 TRUMAN WATERFRONT PARK
 WEST OF FORT STREET AND THE
 TRUMAN ANNEX DEVELOPMENT,
 NORTH OF KEY WEST NAVAL BASE

SUB-CONSULTANT INFORMATION:
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 Certificate of Authorization No. 8579

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 Key West, Florida 33040
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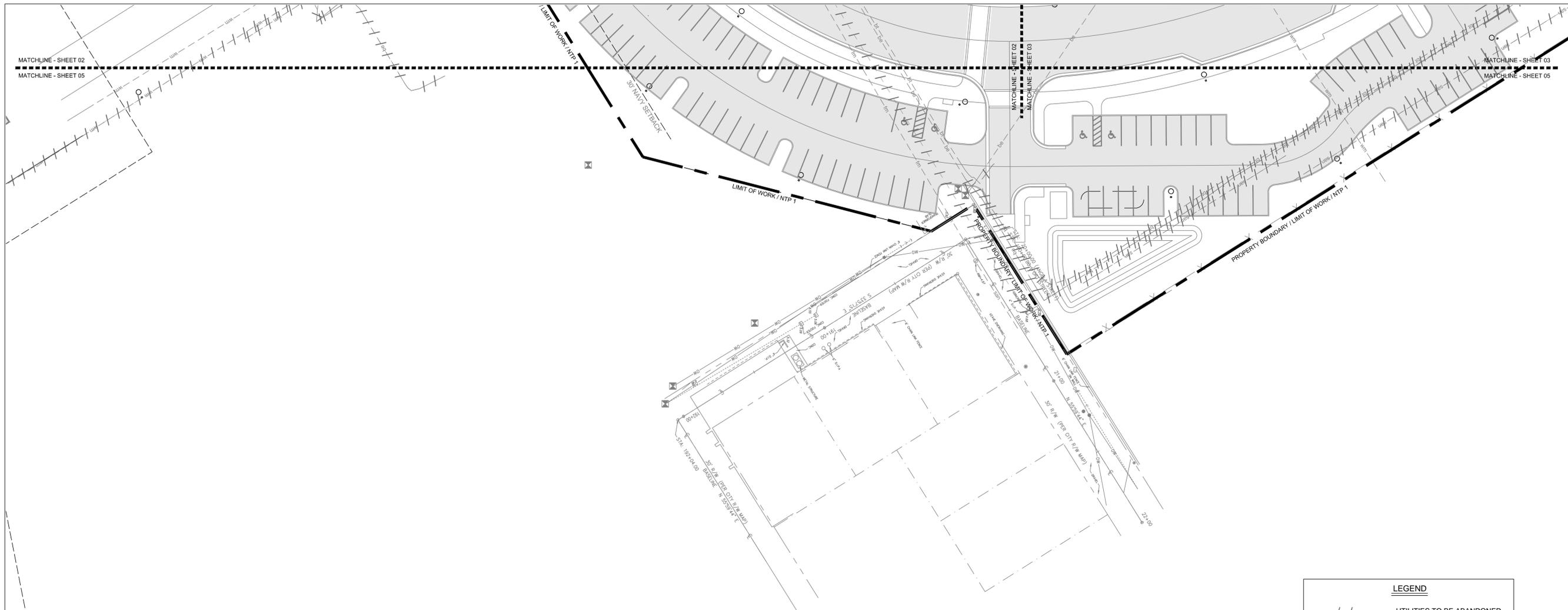
SUBMITTAL DESCRIPTION / MILESTONE:

BIDDING
 August 30, 2015

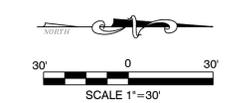
REVISIONS:

DRAWING SHEET INFORMATION
 BA PROJECT NO.: 14041
 SCALE: 1" = 30'
 DATE: June 25, 2015
 DRAWN BY: BGO
 CHECKED BY: AEP

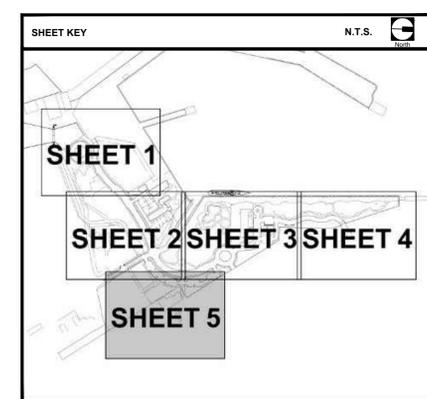
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UTILITY ABANDONMENT PLAN
 SHEET NO.



LEGEND	
- / -	UTILITIES TO BE ABANDONED
- - - - - be - - - - -	BURIED ELECTRIC
- - - - - fm - - - - -	FORCE MAIN
- - - - - gas - - - - -	GAS LINE
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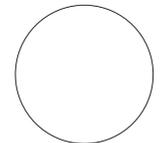
PROJECT NAME:
TRUMAN WATERFRONT PARK

PROJECT LOCATION/ADDRESS:
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PROFESSIONAL SEAL:



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 51468

SUBMITTAL DESCRIPTION / MILESTONE:

BIDDING
August 30, 2015

REVISIONS:

NO.	DESCRIPTION

DRAWING SHEET INFORMATION
 BA PROJECT NO.: 14041
 SCALE: 1" = 30'
 DATE: June 25, 2015
 DRAWN BY: BGO
 CHECKED BY: AEP

DRAWING TITLE:
UTILITY ABANDONMENT PLAN
 SHEET NO.

CA-05



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Interior Design • Landscape Architecture
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PROJECT NAME:

TRUMAN WATERFRONT PARK

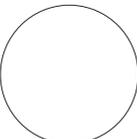
PROJECT LOCATION/ADDRESS:
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WEST OF FORT STREET AND THE
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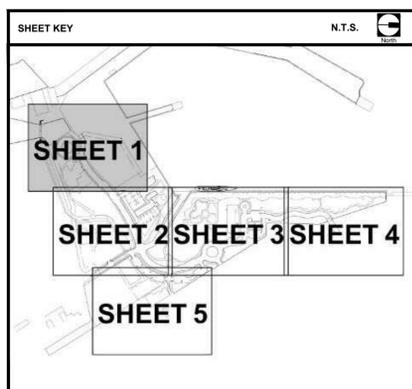
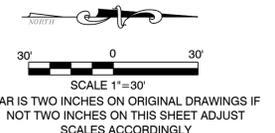
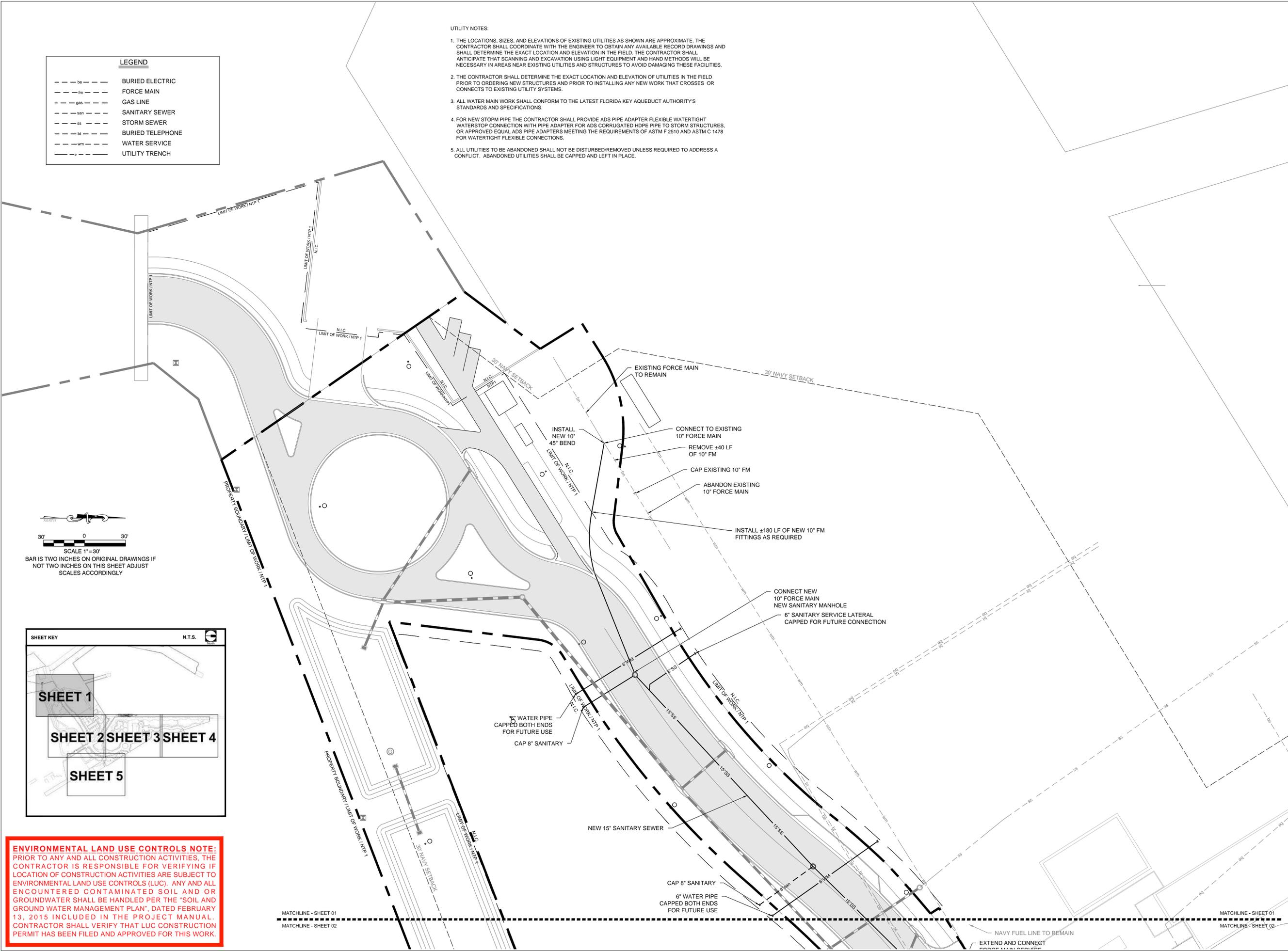
DRAWING TITLE:
UTILITY PLAN

SHEET NO.
CU-01

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MATCHLINE - SHEET 01
MATCHLINE - SHEET 02



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KEY WEST, FL 33041



PROJECT NAME:

TRUMAN WATERFRONT PARK

PROJECT LOCATION/ADDRESS:

TRUMAN WATERFRONT PARK
WEST OF FORT STREET AND THE
TRUMAN ANNEX DEVELOPMENT,
NORTH OF KEY WEST NAVAL BASE

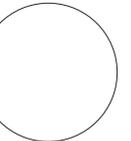
SUB-CONSULTANT INFORMATION:

PEREZ ENGINEERING & DEVELOPMENT, INC.

Certificate of Authorization No. 8579

1010 Kennedy Drive
Suite 201
Key West, Florida 33040
(305) 293-9440
Fax (305) 296-0243

PROFESSIONAL SEAL:



ALLEN E. PEREZ, P.E.
FLORIDA REGISTERED ENGINEER
51468

SUBMITTAL DESCRIPTION / MILESTONE:

BIDDING
August 30, 2015

REVISIONS:

NO.	DESCRIPTION	DATE

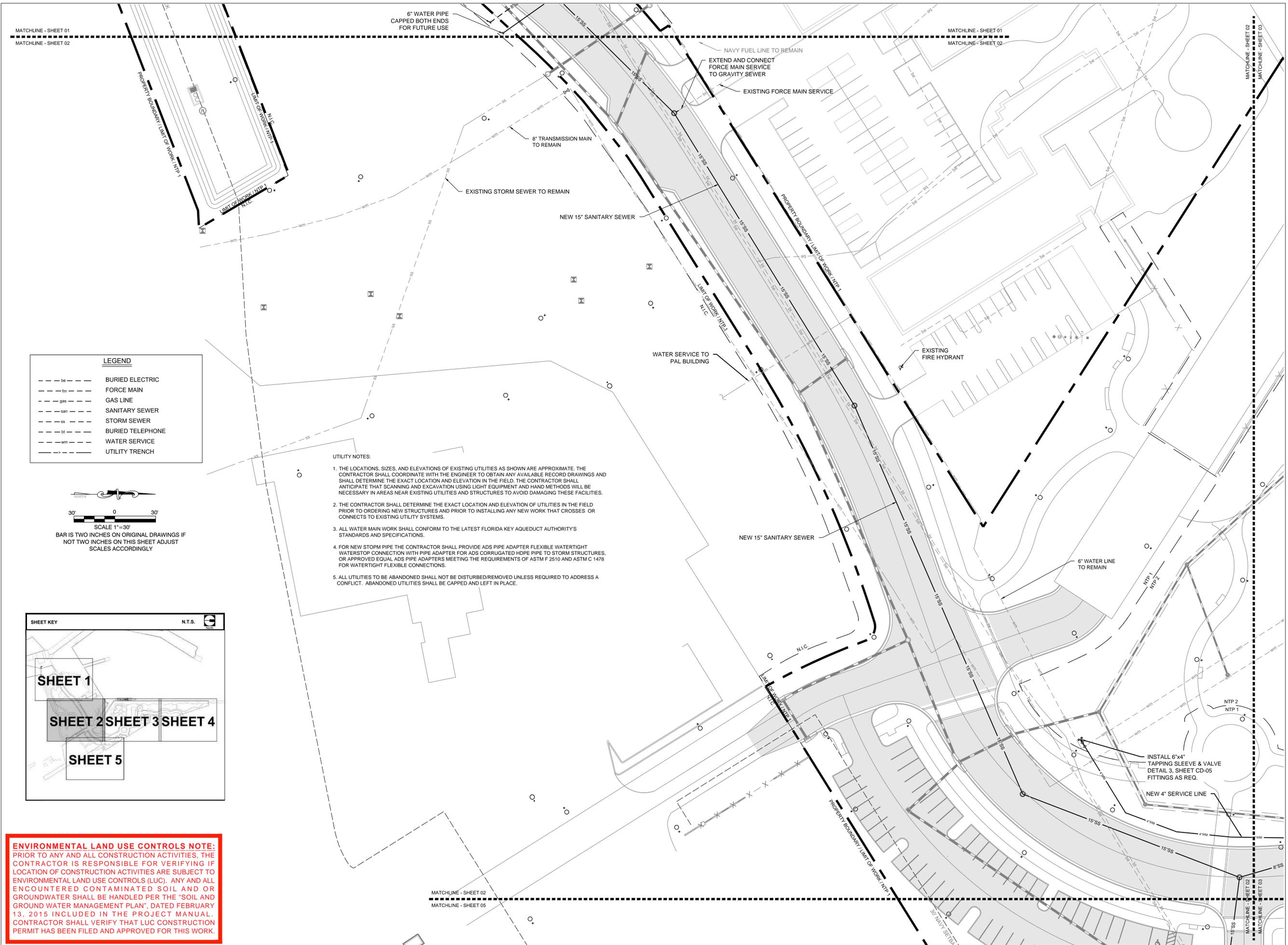
DRAWING SHEET INFORMATION

BA PROJECT NO.: 14041
SCALE: 1" = 30'
DATE: June 25, 2015
DRAWN BY: BGO
CHECKED BY: AEP

DRAWING TITLE:
UTILITY PLAN

SHEET NO.

CU-02



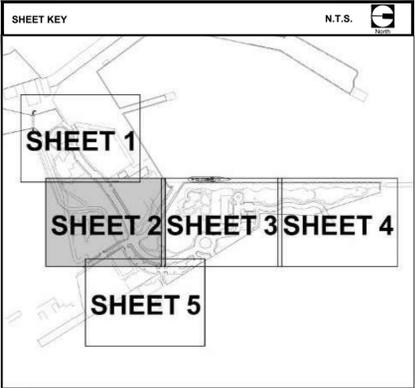
LEGEND

---	BE	BURIED ELECTRIC
---	FM	FORCE MAIN
---	GL	GAS LINE
---	SS	SANITARY SEWER
---	SS	STORM SEWER
---	BT	BURIED TELEPHONE
---	WM	WATER SERVICE
---	UT	UTILITY TRENCH

- UTILITY NOTES:**
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SCALE 1"=30'
BAR IS TWO INCHES ON ORIGINAL DRAWINGS IF
NOT TWO INCHES ON THIS SHEET ADJUST
SCALES ACCORDINGLY



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PREPARED FOR OWNER:
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P. O. BOX 1409
3140 FLAGLER AVENUE
KEY WEST, FL 33041



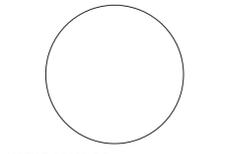
PROJECT NAME:
TRUMAN WATERFRONT PARK

PROJECT LOCATION/ADDRESS:
TRUMAN WATERFRONT PARK
WEST OF FORT STREET AND THE
TRUMAN ANNEX DEVELOPMENT,
NORTH OF KEY WEST NAVAL BASE

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PROFESSIONAL SEAL:



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FLORIDA REGISTERED ENGINEER
51468

SUBMITTAL DESCRIPTION / MILESTONE:

BIDDING
August 30, 2015

REVISIONS:

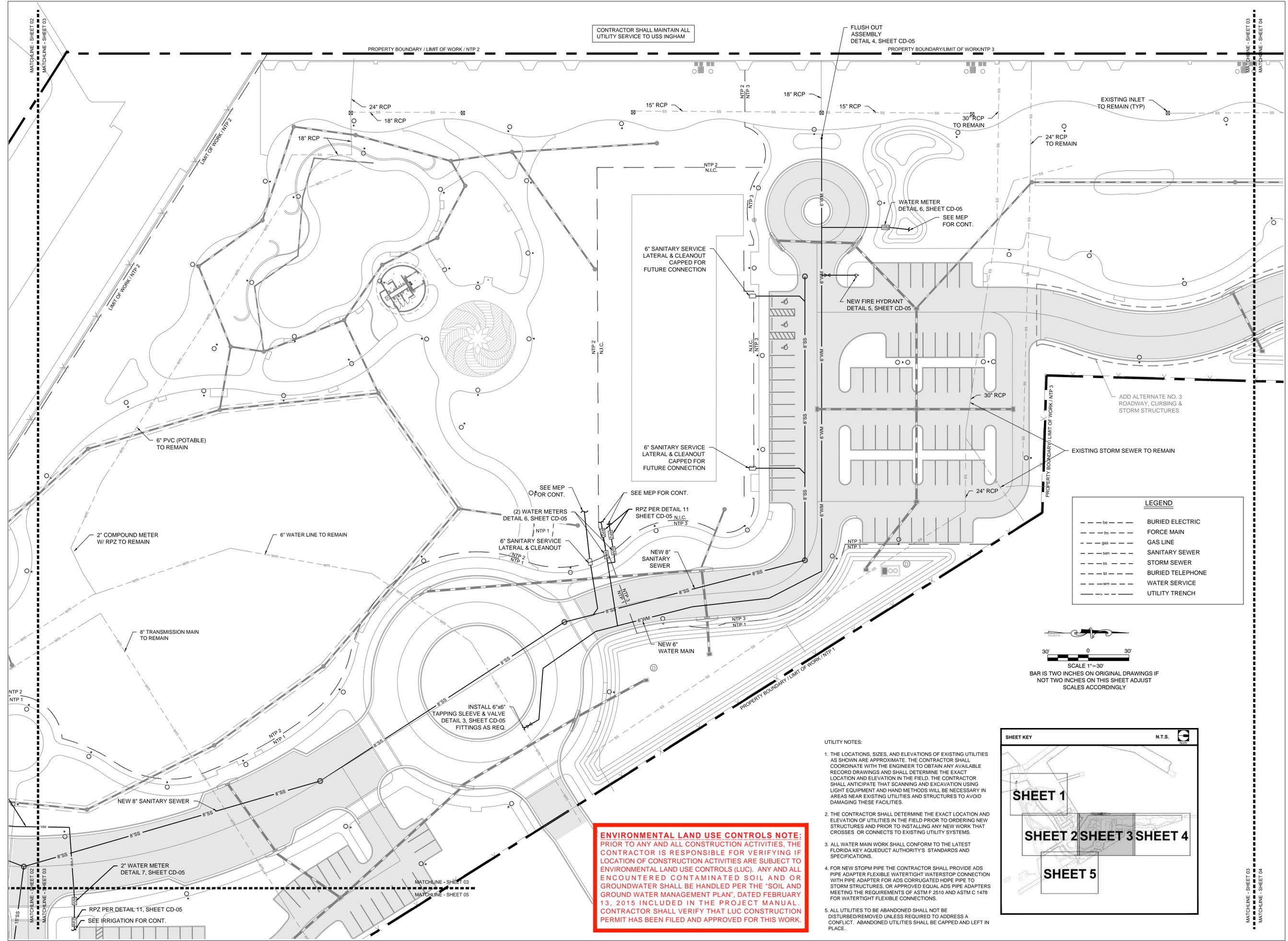
DRAWING SHEET INFORMATION

BA PROJECT NO.: 14041
SCALE: 1" = 30'
DATE: June 25, 2015
DRAWN BY: BGO
CHECKED BY: AEP

DRAWING TITLE:
UTILITY PLAN

SHEET NO.

CU-03



ENVIRONMENTAL LAND USE CONTROLS NOTE:
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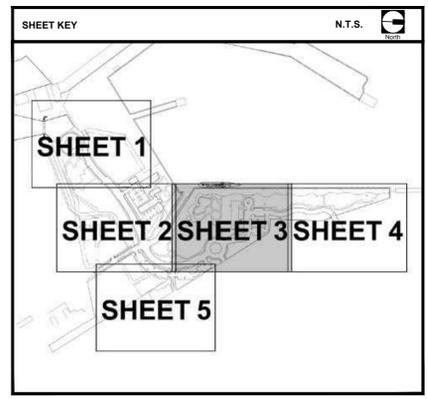
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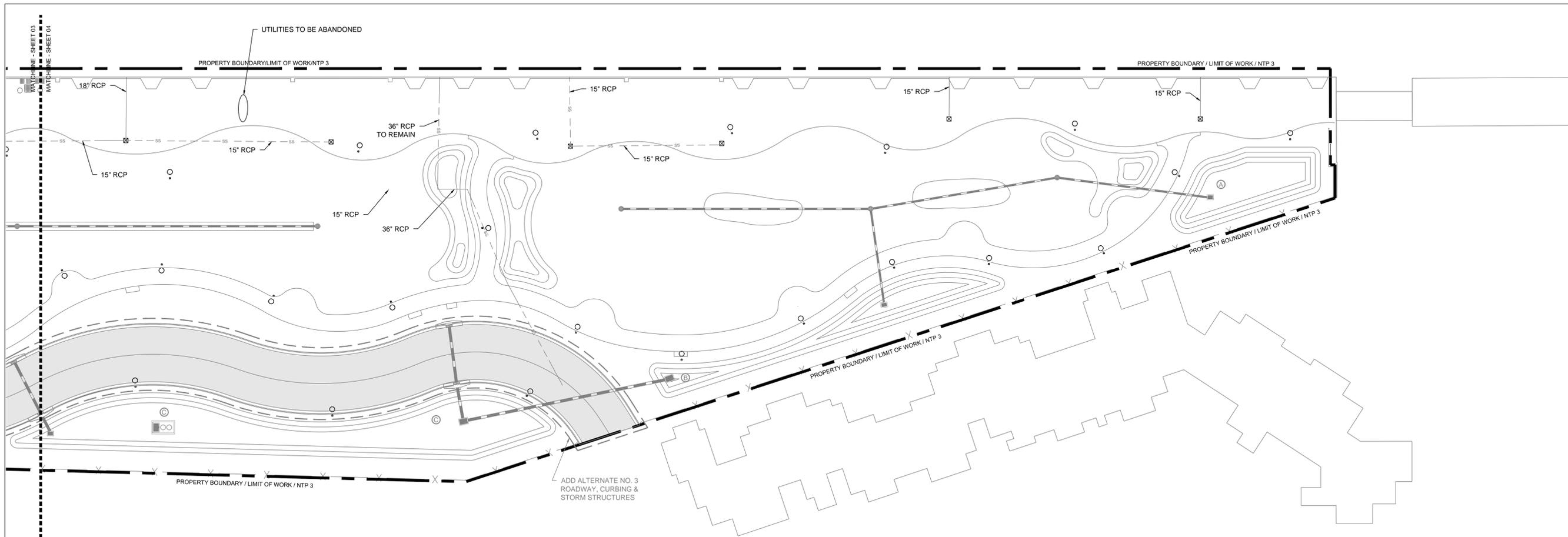
---	BURIED ELECTRIC
---	FORCE MAIN
---	GAS LINE
---	SANITARY SEWER
---	STORM SEWER
---	BURIED TELEPHONE
---	WATER SERVICE
---	UTILITY TRENCH



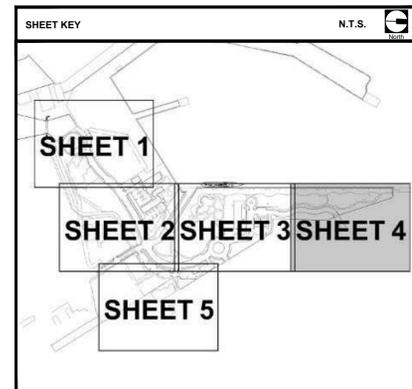
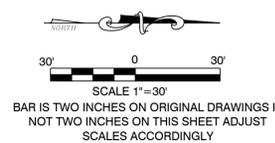
SCALE 1"=30'
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LEGEND	
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---	FORCE MAIN
---	GAS LINE
---	SANITARY SEWER
---	STORM SEWER
---	BURIED TELEPHONE
---	WATER SERVICE
---	UTILITY TRENCH



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 Fax (305) 860-3700

PREPARED FOR/OWNER:
CITY OF KEY WEST, FL
 P. O. BOX 1409
 3140 FLAGLER AVENUE
 KEY WEST, FL 33041



PROJECT NAME:
TRUMAN WATERFRONT PARK

PROJECT LOCATION/ADDRESS:
**TRUMAN WATERFRONT PARK
 WEST OF FORT STREET AND THE
 TRUMAN ANNEX DEVELOPMENT,
 NORTH OF KEY WEST NAVAL BASE**

SUB-CONSULTANT INFORMATION:
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 Certificate of Authorization No. 8579

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ALLEN E. PEREZ, P.E.
 FLORIDA REGISTERED ENGINEER
 51468

SUBMITTAL DESCRIPTION / MILESTONE:

BIDDING
August 30, 2015

REVISIONS:

DRAWING SHEET INFORMATION
 BA PROJECT NO.: 14041
 SCALE: 1" = 30'
 DATE: June 25, 2015
 DRAWN BY: BGO
 CHECKED BY: AEP

DRAWING TITLE:
UTILITY PLAN

SHEET NO.
CU-04



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Interior Design • Landscape Architecture
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PREPARED FOR/OWNER:
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P. O. BOX 1409
3140 FLAGLER AVENUE
KEY WEST, FL 33041



PROJECT NAME:

**TRUMAN
WATERFRONT
PARK**

PROJECT LOCATION/ADDRESS:

TRUMAN WATERFRONT PARK
WEST OF FORT STREET AND THE
TRUMAN ANNEX DEVELOPMENT,
NORTH OF KEY WEST NAVAL BASE

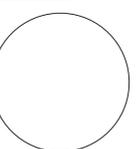
SUB-CONSULTANT INFORMATION:

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PROFESSIONAL SEAL:



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FLORIDA REGISTERED ENGINEER
51468

SUBMITTAL DESCRIPTION / MILESTONE:

**BIDDING
August 30, 2015**

REVISIONS:

NO.	DESCRIPTION

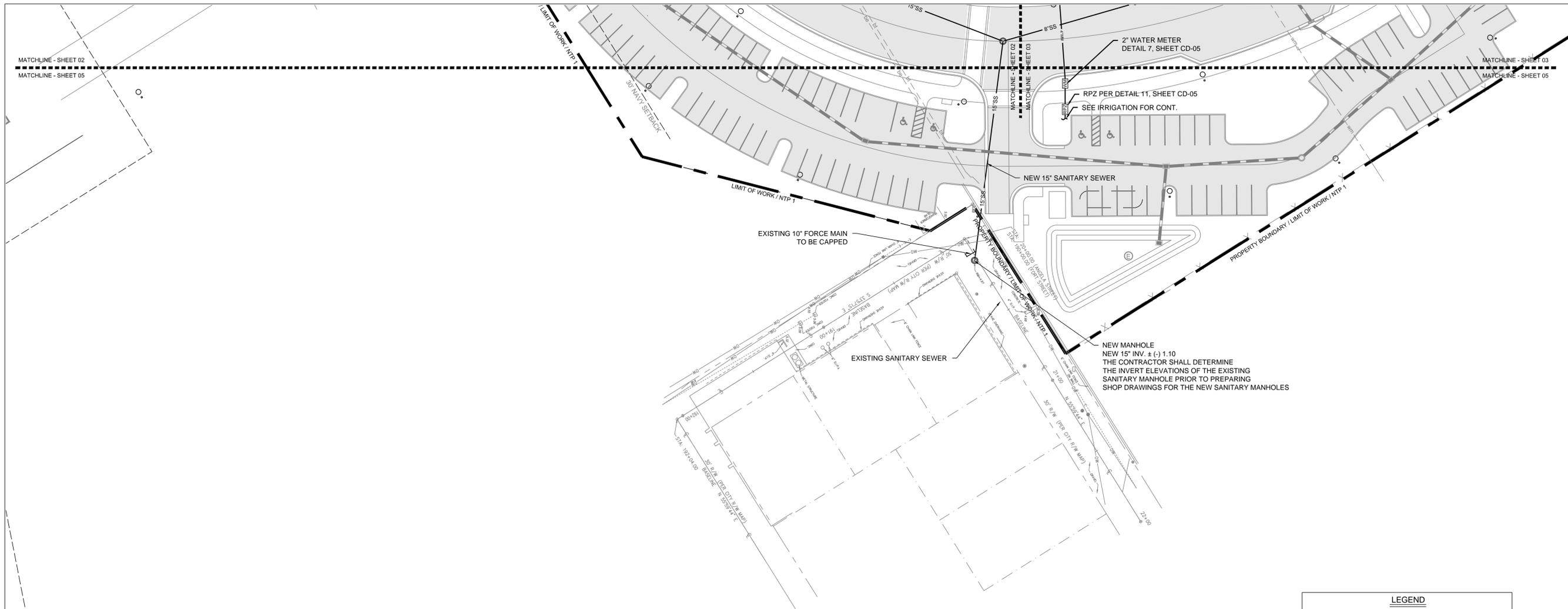
DRAWING SHEET INFORMATION

BA PROJECT NO.: 14041
SCALE: 1" = 30'
DATE: June 25, 2015
DRAWN BY: BGO
CHECKED BY: AEP

DRAWING TITLE:
UTILITY PLAN

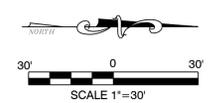
SHEET NO.

CU-05



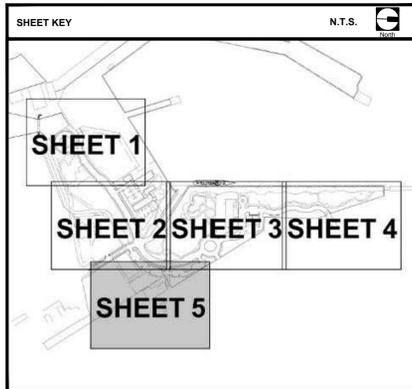
LEGEND

---	be	BURIED ELECTRIC
---	fm	FORCE MAIN
---	gas	GAS LINE
---	san	SANITARY SEWER
---	ss	STORM SEWER
---	bt	BURIED TELEPHONE
---	wt	WATER SERVICE
---	---	UTILITY TRENCH



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SCALES ACCORDINGLY

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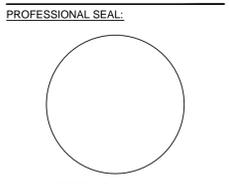
PREPARED FOR/OWNER:
CITY OF KEY WEST, FL
 P. O. BOX 1409
 3140 FLAGLER AVENUE
 KEY WEST, FL 33041



PROJECT NAME:
TRUMAN WATERFRONT PARK
 PROJECT LOCATION/ADDRESS:
TRUMAN WATERFRONT PARK
 WEST OF FORT STREET AND THE
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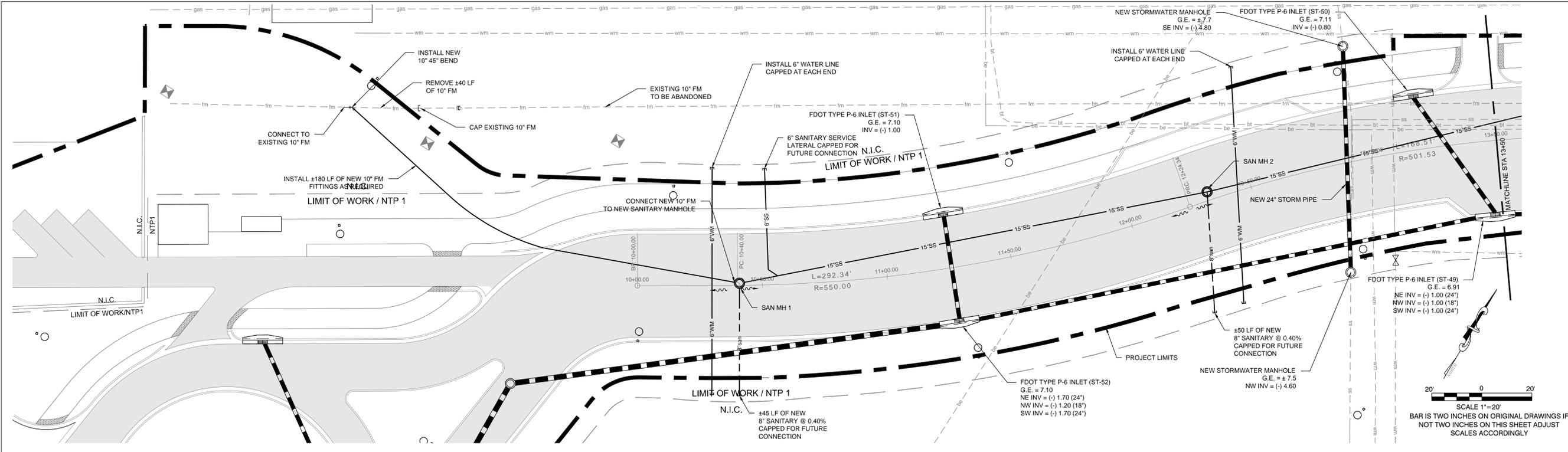
BIDDING
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REVISIONS:

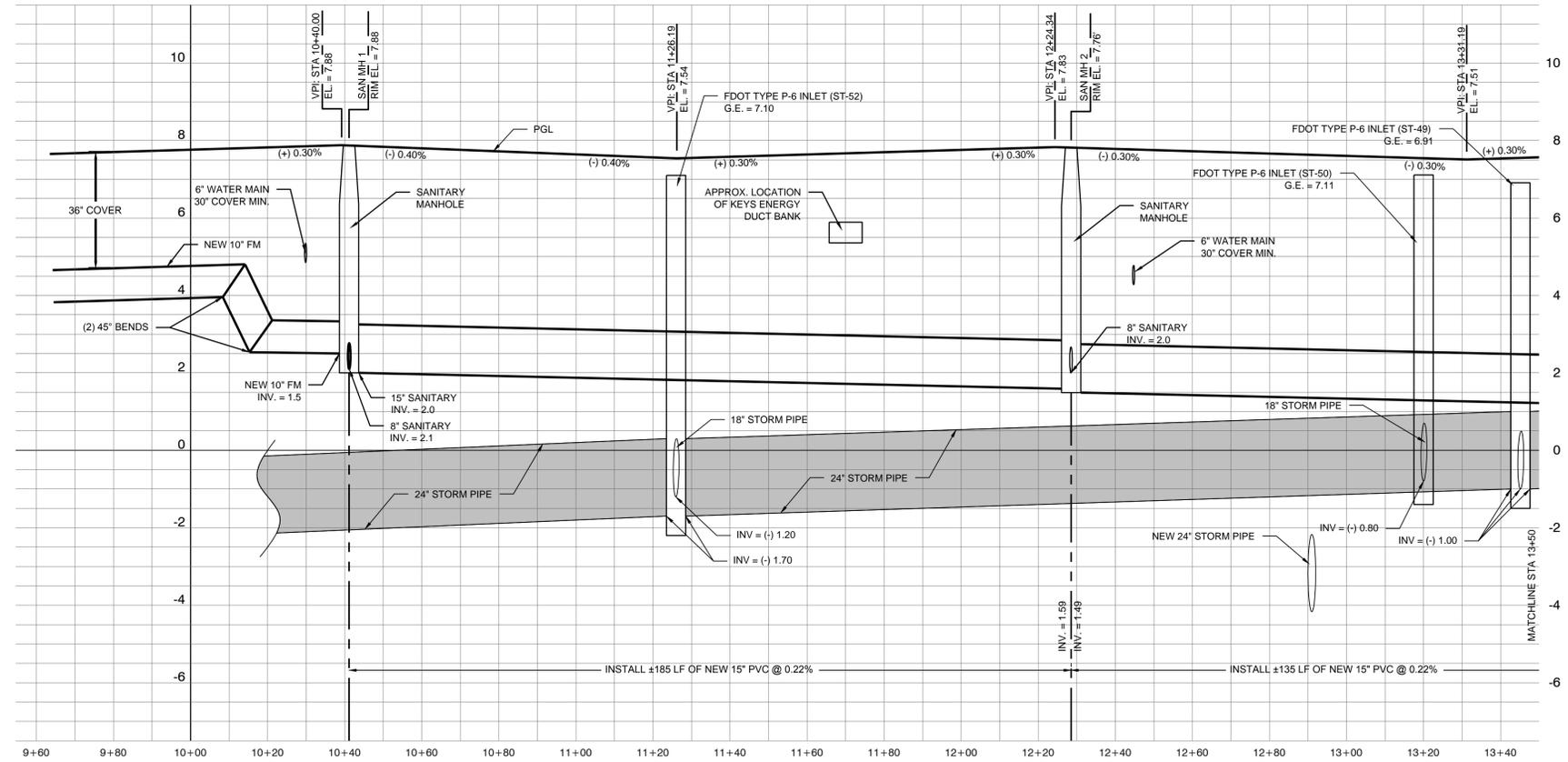
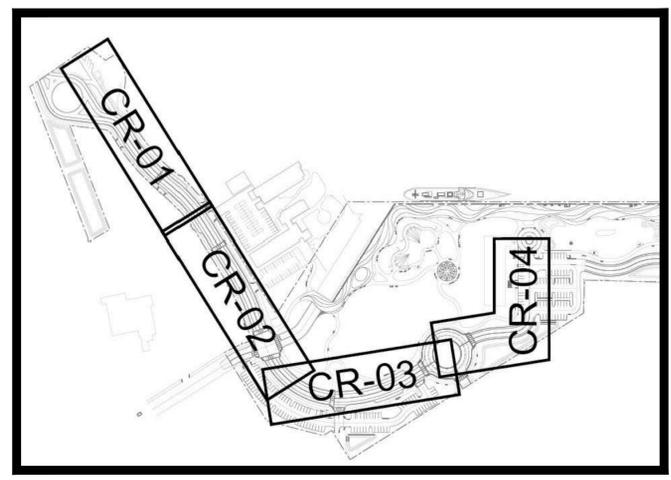
DRAWING SHEET INFORMATION
 BA PROJECT NO.: 14041
 SCALE: AS NOTED
 DATE: June 25, 2015
 DRAWN BY: BGO
 CHECKED BY: AEP

DRAWING TITLE:
ROADWAY PLAN & PROFILE

SHEET NO.
CR-01

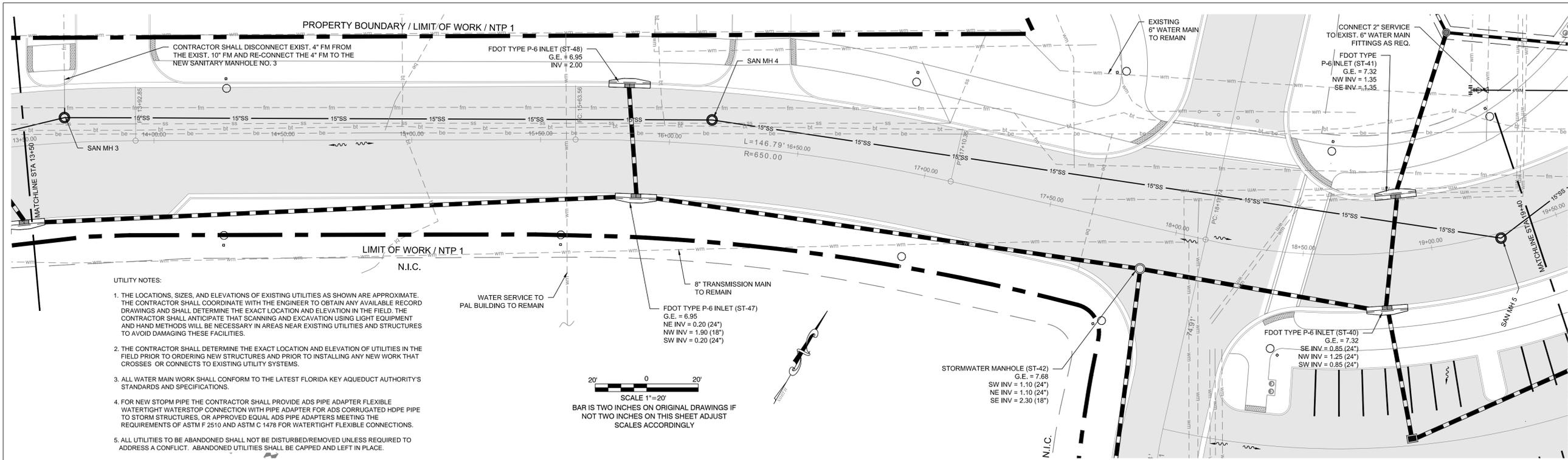


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SCALE: 1"=20' HOR.
 1"=2' VERT.

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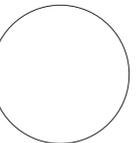
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REVISIONS:

NO.	DESCRIPTION

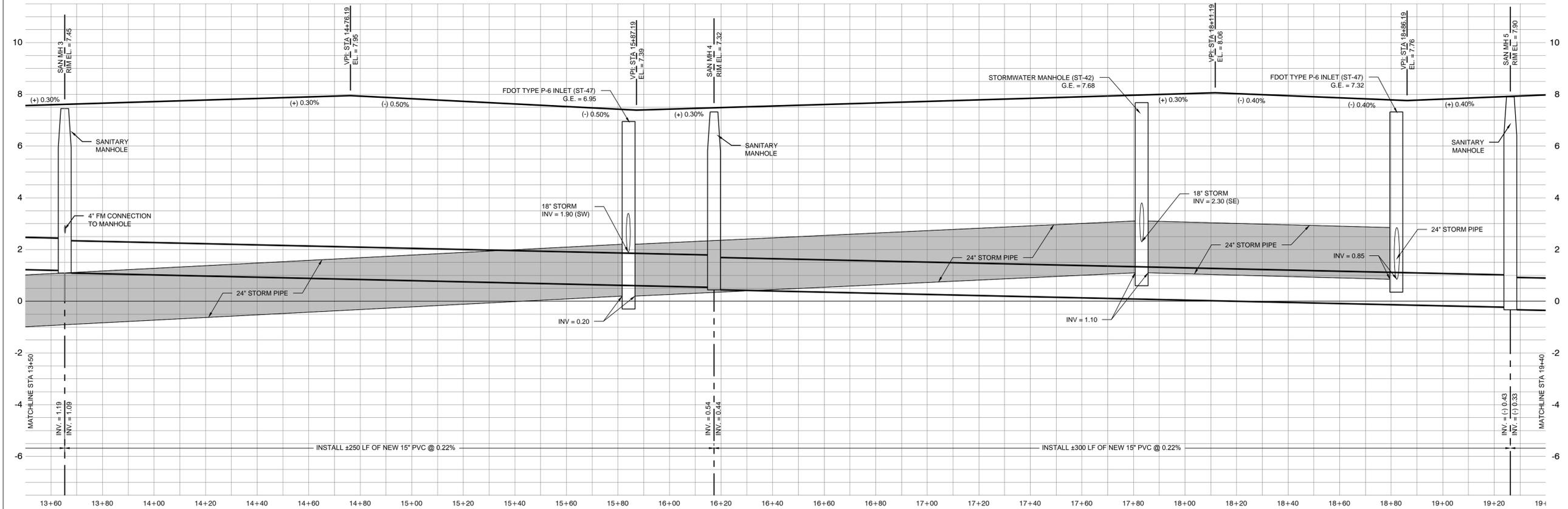
DRAWING SHEET INFORMATION

BA PROJECT NO.: 14041
SCALE: AS NOTED
DATE: June 25, 2015
DRAWN BY: BGO
CHECKED BY: AEP

DRAWING TITLE:
ROADWAY PLAN & PROFILE

SHEET NO.

CR-02



SCALE: 1"=20' HOR.
1"=2' VERT.

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PREPARED FOR OWNER:
CITY OF KEY WEST, FL
P. O. BOX 1409
3140 FLAGLER AVENUE
KEY WEST, FL 33041



PROJECT NAME:

TRUMAN WATERFRONT PARK

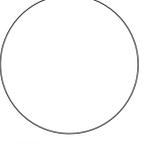
PROJECT LOCATION/ADDRESS:
TRUMAN WATERFRONT PARK
WEST OF FORT STREET AND THE
TRUMAN ANNEX DEVELOPMENT,
NORTH OF KEY WEST NAVAL BASE

SUB-CONSULTANT INFORMATION:

PEREZ ENGINEERING & DEVELOPMENT, INC.
Certificate of Authorization No. 8579

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PROFESSIONAL SEAL:



ALLEN E. PEREZ, P.E.
FLORIDA REGISTERED ENGINEER
51468

SUBMITTAL DESCRIPTION / MILESTONE:

BIDDING
August 30, 2015

REVISIONS:

NO.	DESCRIPTION

DRAWING SHEET INFORMATION

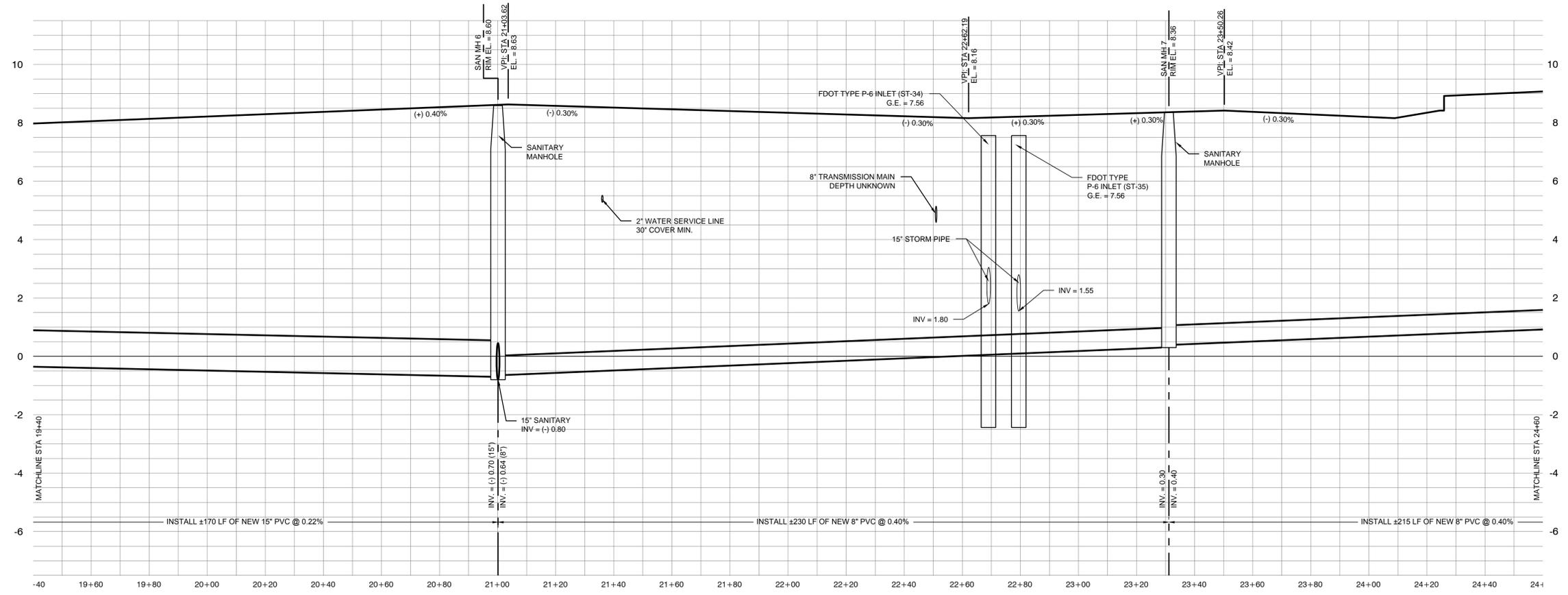
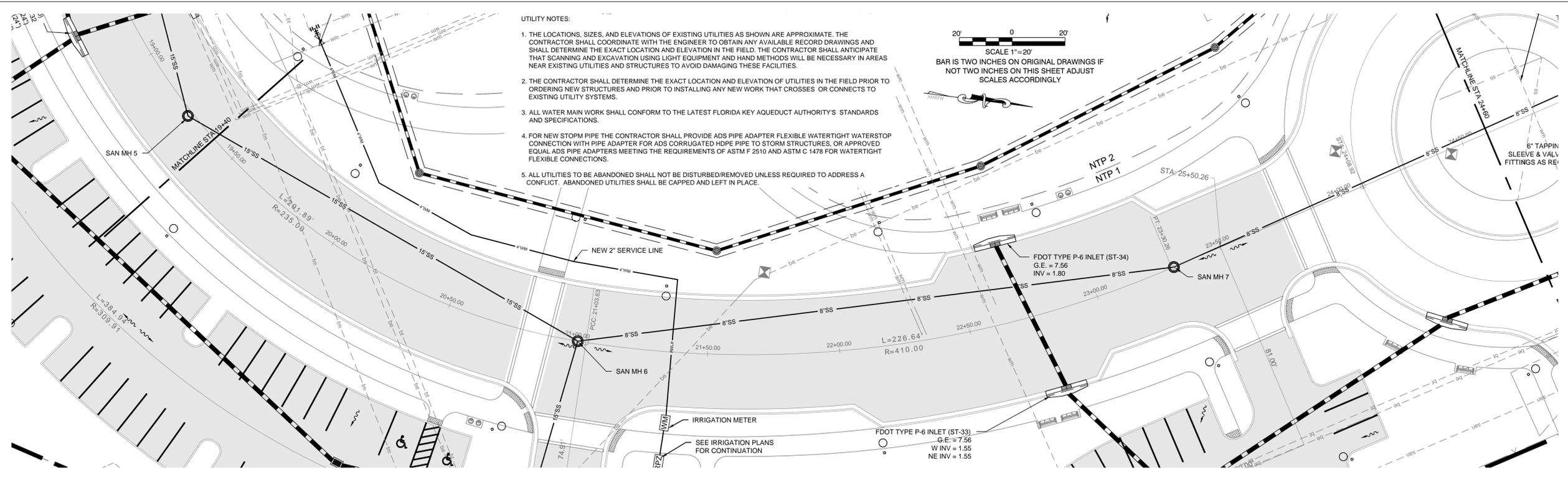
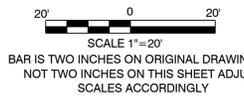
BA PROJECT NO.: 14041
SCALE: AS NOTED
DATE: June 25, 2015
DRAWN BY: BGO
CHECKED BY: AEP

DRAWING TITLE:
ROADWAY PLAN & PROFILE

SHEET NO.

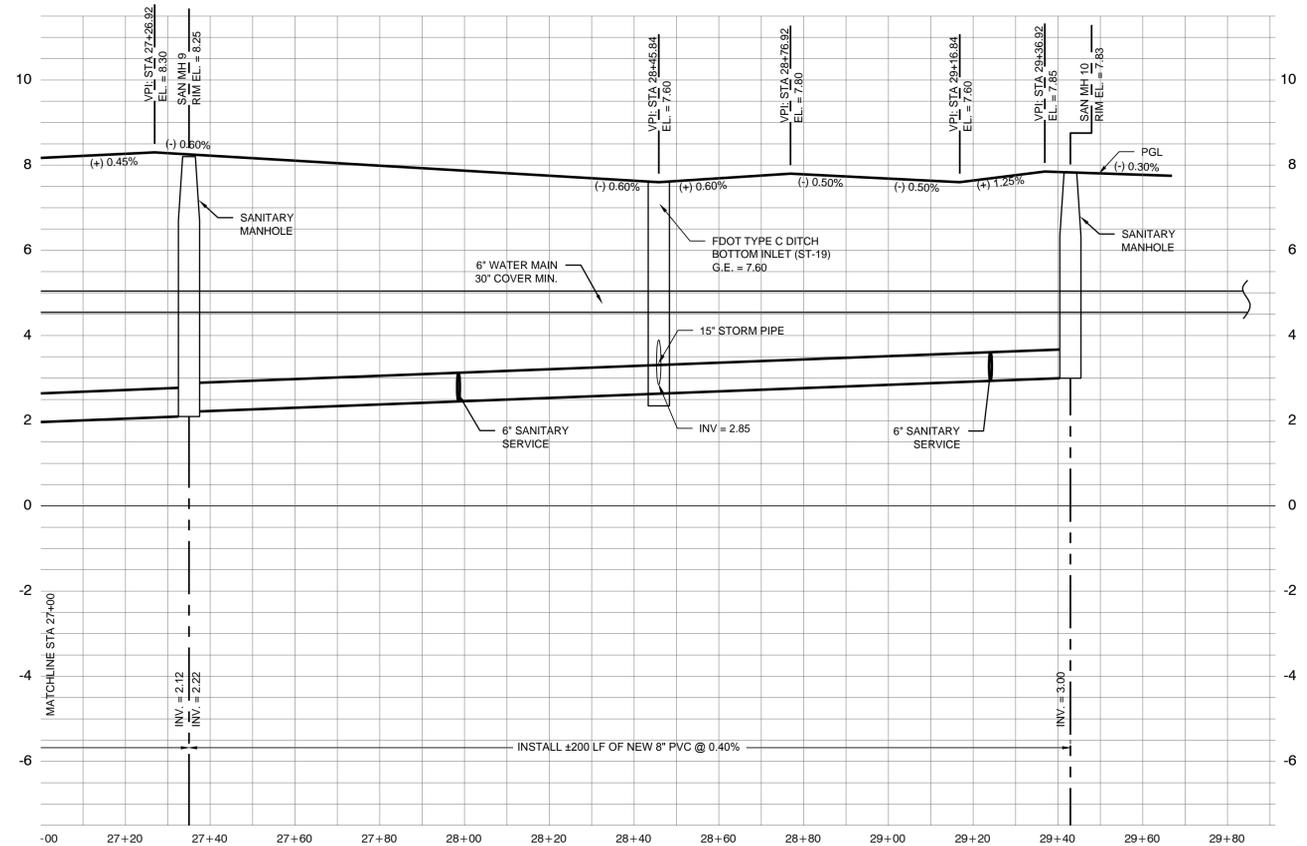
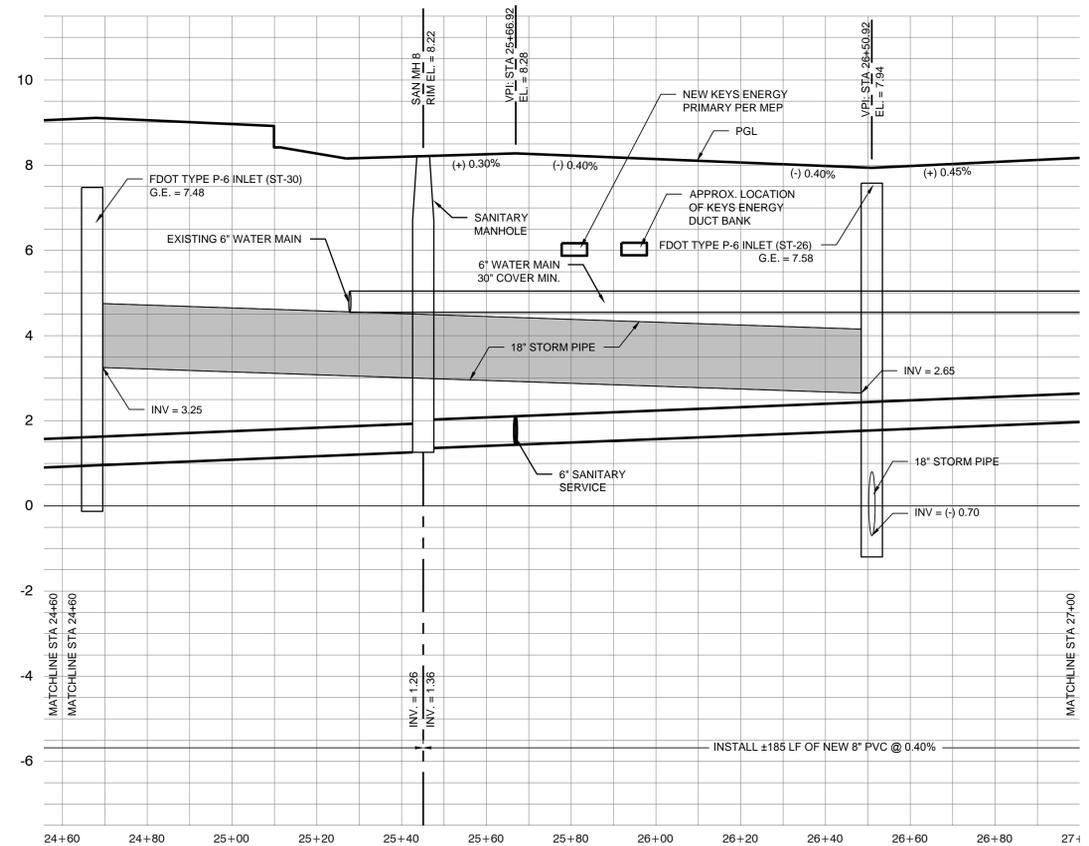
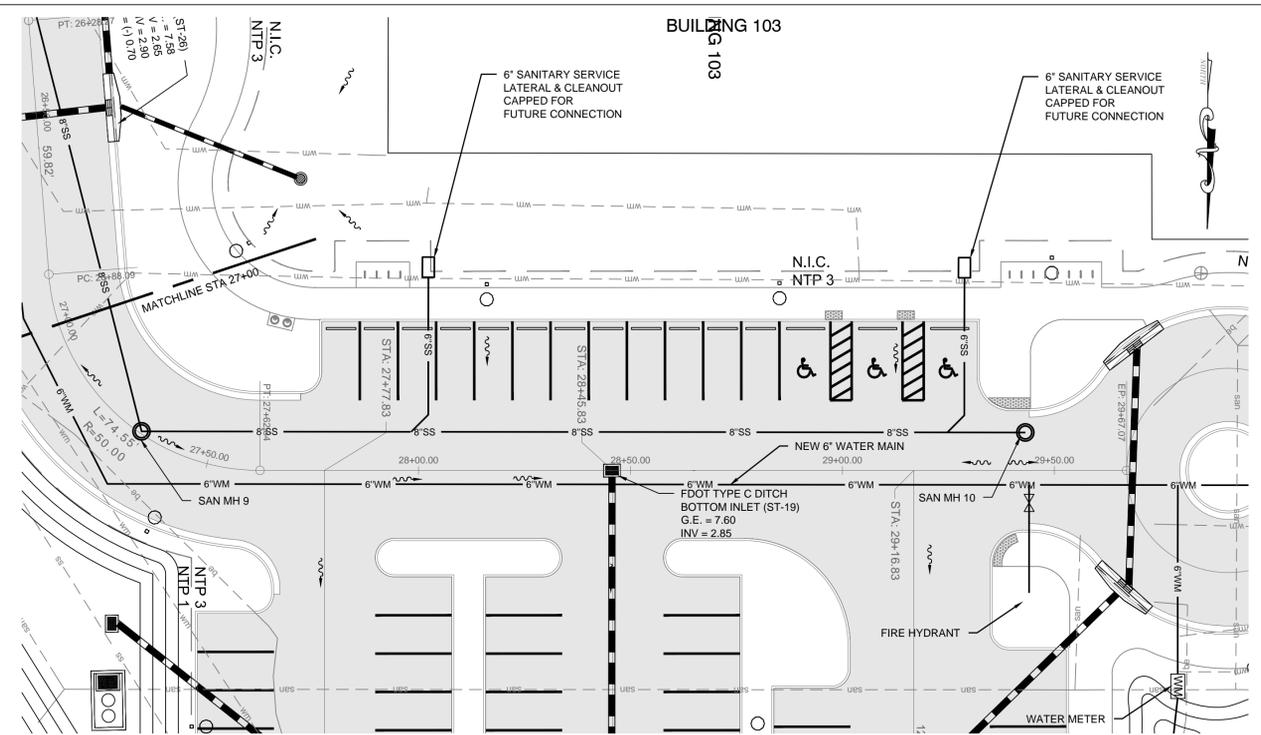
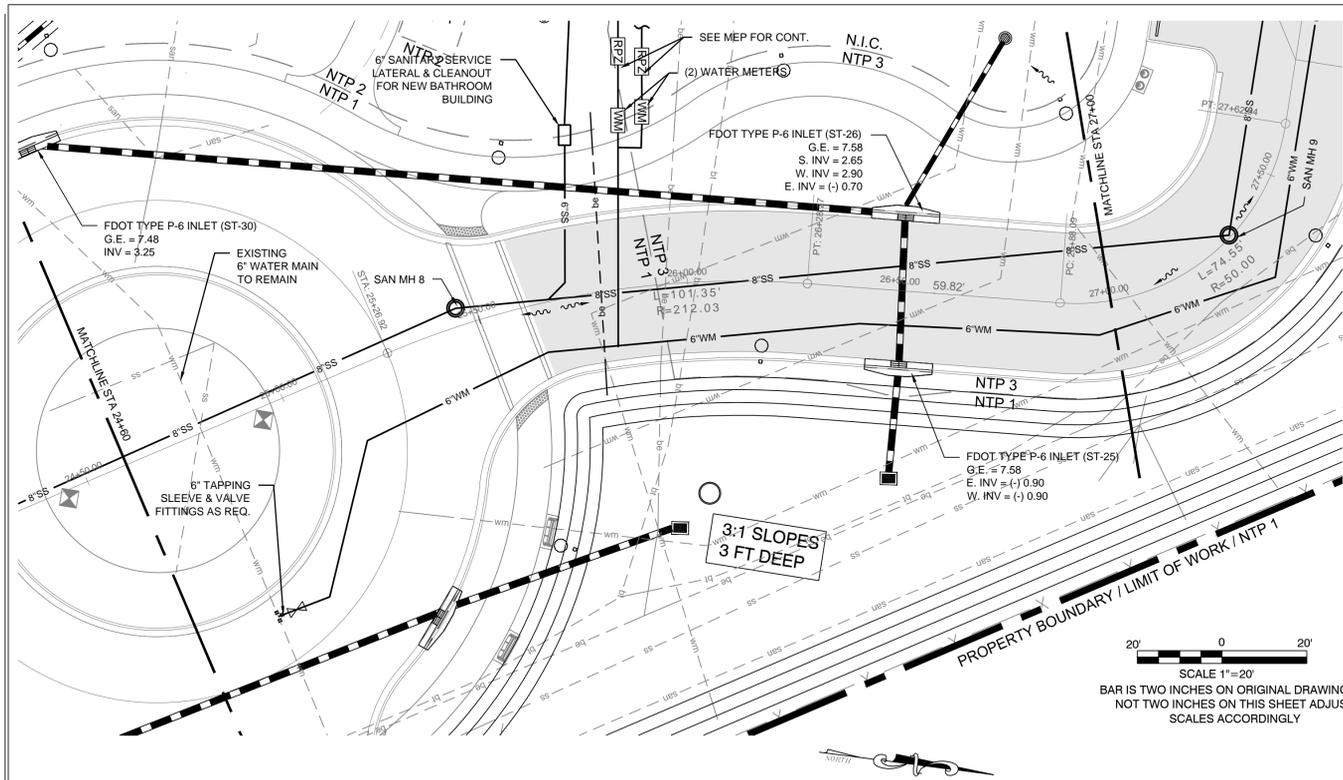
CR-03

- UTILITY NOTES:
1. THE LOCATIONS, SIZES, AND ELEVATIONS OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO OBTAIN ANY AVAILABLE RECORD DRAWINGS AND SHALL DETERMINE THE EXACT LOCATION AND ELEVATION IN THE FIELD. THE CONTRACTOR SHALL ANTICIPATE THAT SCANNING AND EXCAVATION USING LIGHT EQUIPMENT AND HAND METHODS WILL BE NECESSARY IN AREAS NEAR EXISTING UTILITIES AND STRUCTURES TO AVOID DAMAGING THESE FACILITIES.
 2. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND ELEVATION OF UTILITIES IN THE FIELD PRIOR TO ORDERING NEW STRUCTURES AND PRIOR TO INSTALLING ANY NEW WORK THAT CROSSES OR CONNECTS TO EXISTING UTILITY SYSTEMS.
 3. ALL WATER MAIN WORK SHALL CONFORM TO THE LATEST FLORIDA KEY AQUEDUCT AUTHORITY'S STANDARDS AND SPECIFICATIONS.
 4. FOR NEW STOPM PIPE THE CONTRACTOR SHALL PROVIDE ADS PIPE ADAPTER FLEXIBLE WATERTIGHT WATERSTOP CONNECTION WITH PIPE ADAPTER FOR ADS CORRUGATED HDPE PIPE TO STORM STRUCTURES, OR APPROVED EQUAL ADS PIPE ADAPTERS MEETING THE REQUIREMENTS OF ASTM F 2510 AND ASTM C 1478 FOR WATERTIGHT FLEXIBLE CONNECTIONS.
 5. ALL UTILITIES TO BE ABANDONED SHALL NOT BE DISTURBED/REMOVED UNLESS REQUIRED TO ADDRESS A CONFLICT. ABANDONED UTILITIES SHALL BE CAPPED AND LEFT IN PLACE.



ENVIRONMENTAL LAND USE CONTROLS NOTE:
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SCALE: 1"=20' HOR.
1"=2' VERT.



UTILITY NOTES:

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 Fax (305) 860-3700

PREPARED FOR/OWNER:
 CITY OF KEY WEST, FL
 P. O. BOX 1409
 3140 FLAGLER AVENUE
 KEY WEST, FL 33041



PROJECT NAME:
TRUMAN WATERFRONT PARK

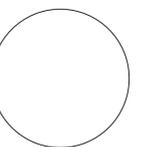
PROJECT LOCATION/ADDRESS:
 TRUMAN WATERFRONT PARK
 WEST OF FORT STREET AND THE
 TRUMAN KEY DEVELOPMENT,
 NORTH OF KEY WEST NAVAL BASE

SUB-CONSULTANT INFORMATION:

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 Fax (305) 296-0243

PROFESSIONAL SEAL:



ALLEN E. PEREZ, P.E.
 FLORIDA REGISTERED ENGINEER
 51468

SUBMITTAL DESCRIPTION / MILESTONE:

BIDDING
 August 30, 2015

REVISIONS:

NO.	DATE	DESCRIPTION

DRAWING SHEET INFORMATION:

BA PROJECT NO.: 14041
 SCALE: AS NOTED
 DATE: June 25, 2015
 DRAWN BY: BGO
 CHECKED BY: AEP

DRAWING TITLE:
ROADWAY PLAN & PROFILE

SHEET NO.
CR-04



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3140 FLAGLER AVENUE
KEY WEST, FL 33041



PROJECT NAME:

**TRUMAN
WATERFRONT
PARK**

PROJECT LOCATION/ADDRESS:

TRUMAN WATERFRONT PARK
WEST OF FORT STREET AND THE
TRUMAN ANNEX DEVELOPMENT,
NORTH OF KEY WEST NAVAL BASE

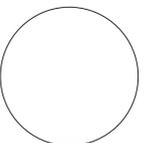
SUB-CONSULTANT INFORMATION:

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SUBMITTAL DESCRIPTION / MILESTONE:

**BIDDING
August 30, 2015**

REVISIONS:

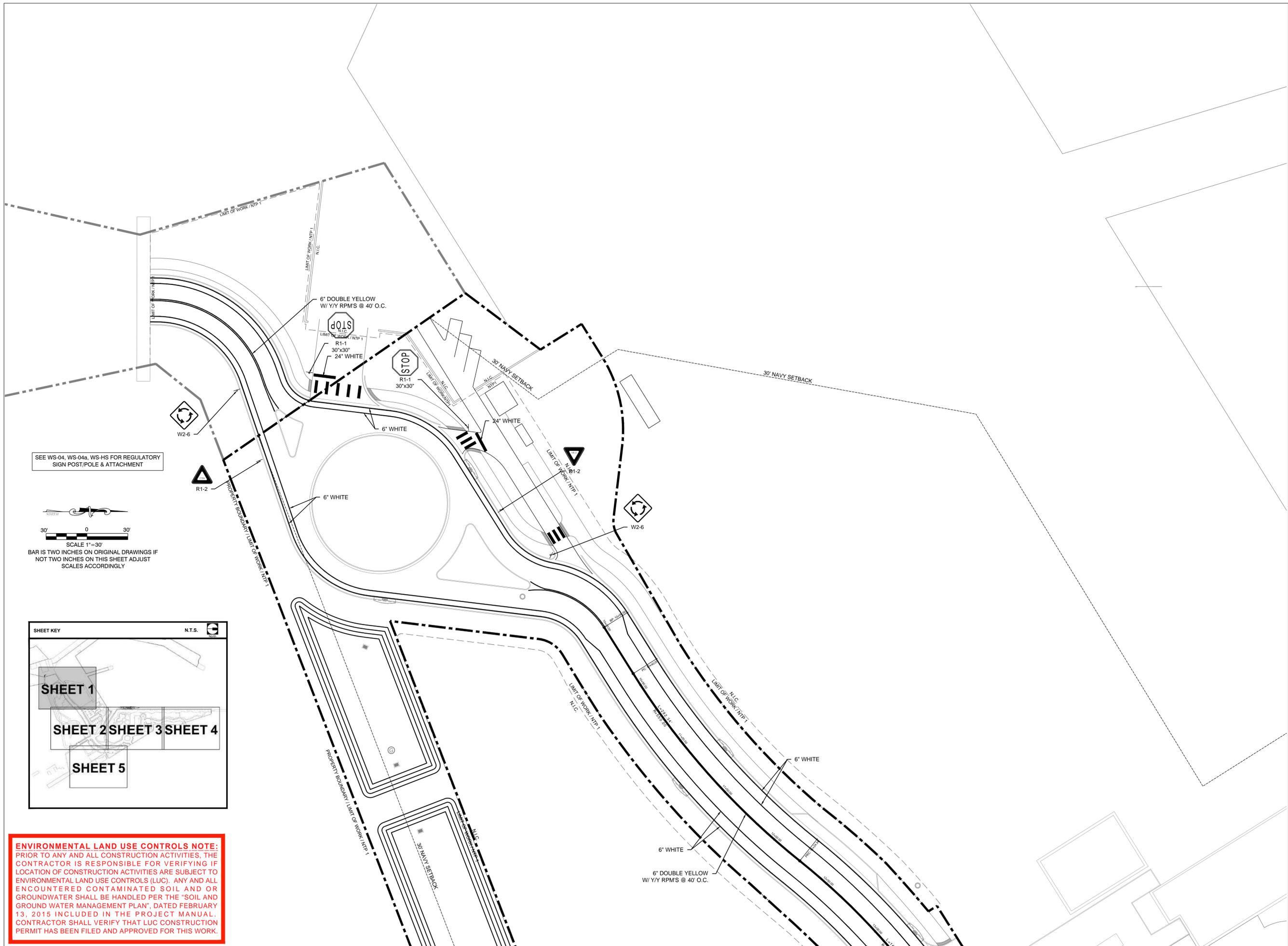
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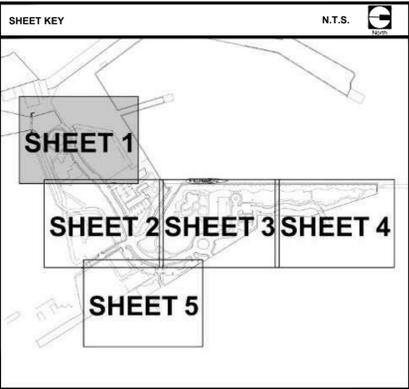
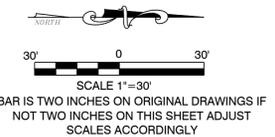
BA PROJECT NO.: 14041
SCALE: 1" = 30'
DATE: June 25, 2015
DRAWN BY: BGO
CHECKED BY: AEP

DRAWING TITLE:
**SIGNAGE &
PAVEMENT
MARKING PLAN**
SHEET NO.

CM-01



SEE WS-04, WS-04a, WS-HS FOR REGULATORY
SIGN POST/POLE & ATTACHMENT



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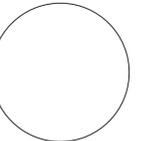
PROJECT NAME:
TRUMAN WATERFRONT PARK

PROJECT LOCATION/ADDRESS:
TRUMAN WATERFRONT PARK
WEST OF FORT STREET AND THE
TRUMAN ANNEX DEVELOPMENT,
NORTH OF KEY WEST NAVAL BASE

SUB-CONSULTANT INFORMATION:
**PEREZ ENGINEERING &
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PROFESSIONAL SEAL:



ALLEN E. PEREZ, P.E.
FLORIDA REGISTERED ENGINEER
51468

SUBMITTAL DESCRIPTION / MILESTONE:

BIDDING
August 30, 2015

REVISIONS:

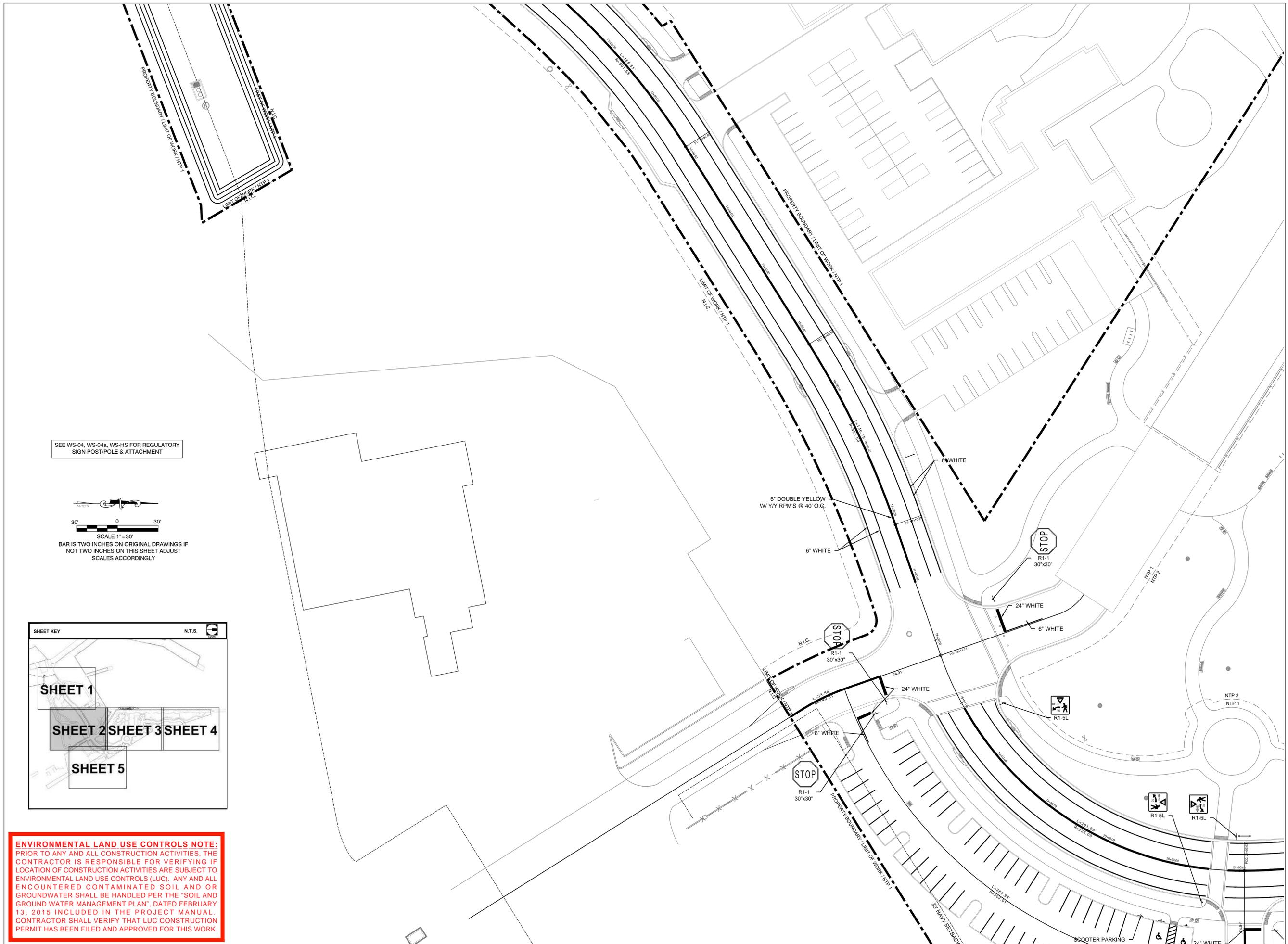
NO.	DESCRIPTION

DRAWING SHEET INFORMATION

BA PROJECT NO.: 14041
SCALE: 1" = 30'
DATE: June 25, 2015
DRAWN BY: BGO
CHECKED BY: AEP

DRAWING TITLE:
**SIGNAGE &
PAVEMENT
MARKING PLAN**
SHEET NO.

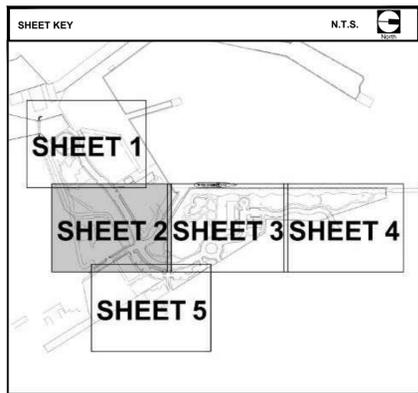
CM-02



SEE WS-04, WS-04a, WS-HS FOR REGULATORY
SIGN POST/POLE & ATTACHMENT



SCALE 1"=30'
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SCALES ACCORDINGLY



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Fax (305) 860-3700

PREPARED FOR OWNER:
CITY OF KEY WEST, FL
P. O. BOX 1409
3140 FLAGLER AVENUE
KEY WEST, FL 33041



PROJECT NAME:

TRUMAN WATERFRONT PARK

PROJECT LOCATION/ADDRESS:

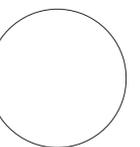
TRUMAN WATERFRONT PARK
WEST OF FORT STREET AND THE
TRUMAN ANNEX DEVELOPMENT,
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PROFESSIONAL SEAL:



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FLORIDA REGISTERED ENGINEER
51468

SUBMITTAL DESCRIPTION / MILESTONE:

BIDDING
August 30, 2015

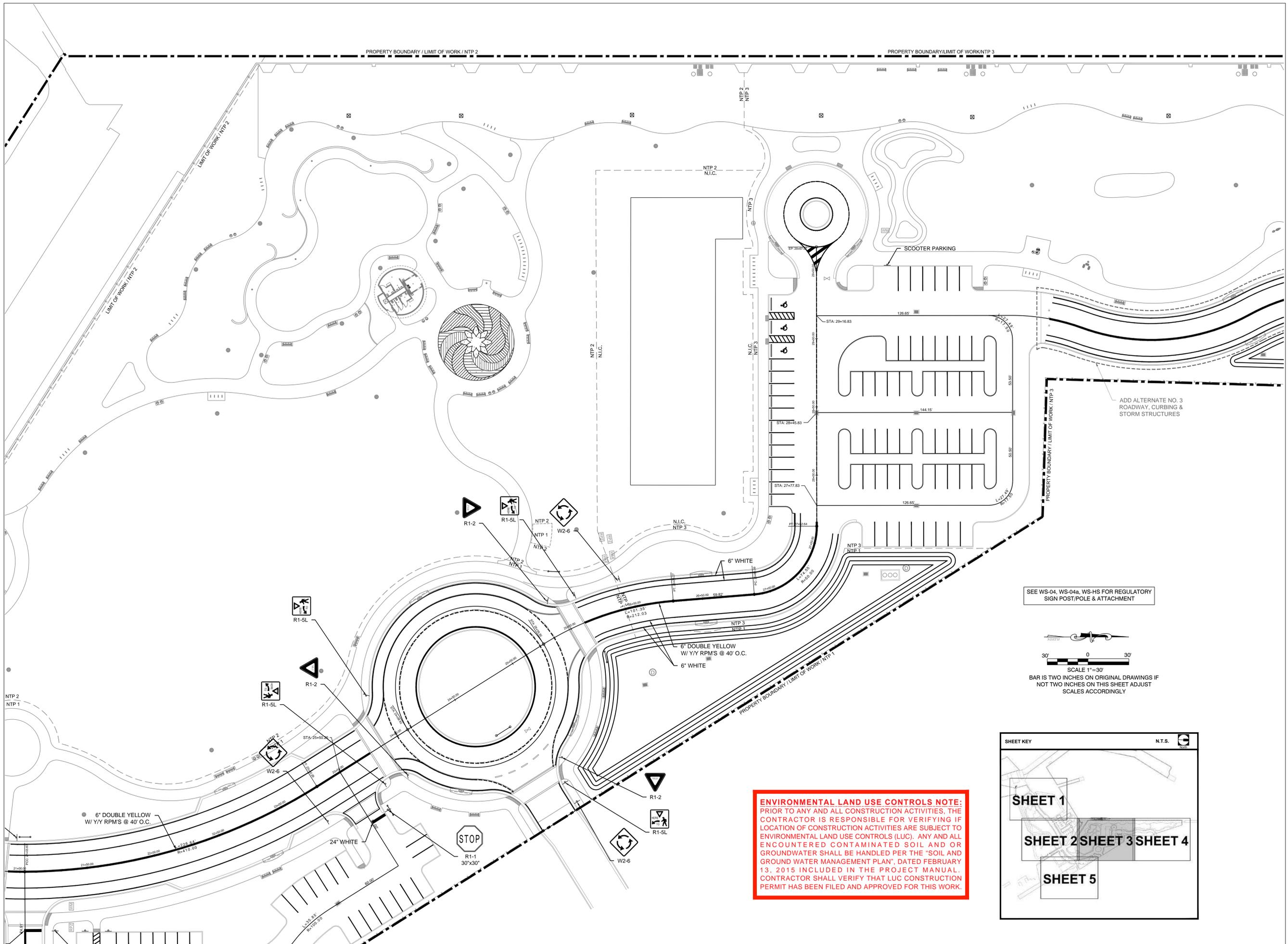
REVISIONS:

DRAWING SHEET INFORMATION

BA PROJECT NO.: 14041
SCALE: 1" = 30'
DATE: June 25, 2015
DRAWN BY: BGO
CHECKED BY: AEP

DRAWING TITLE:
**SIGNAGE &
PAVEMENT
MARKING PLAN**
SHEET NO.

CM-03

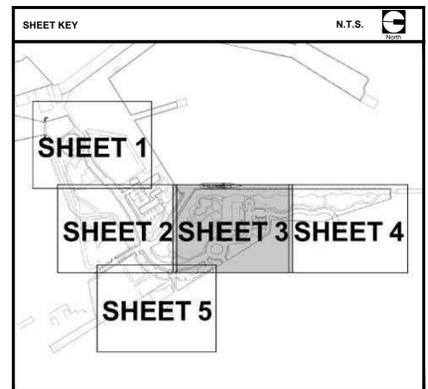


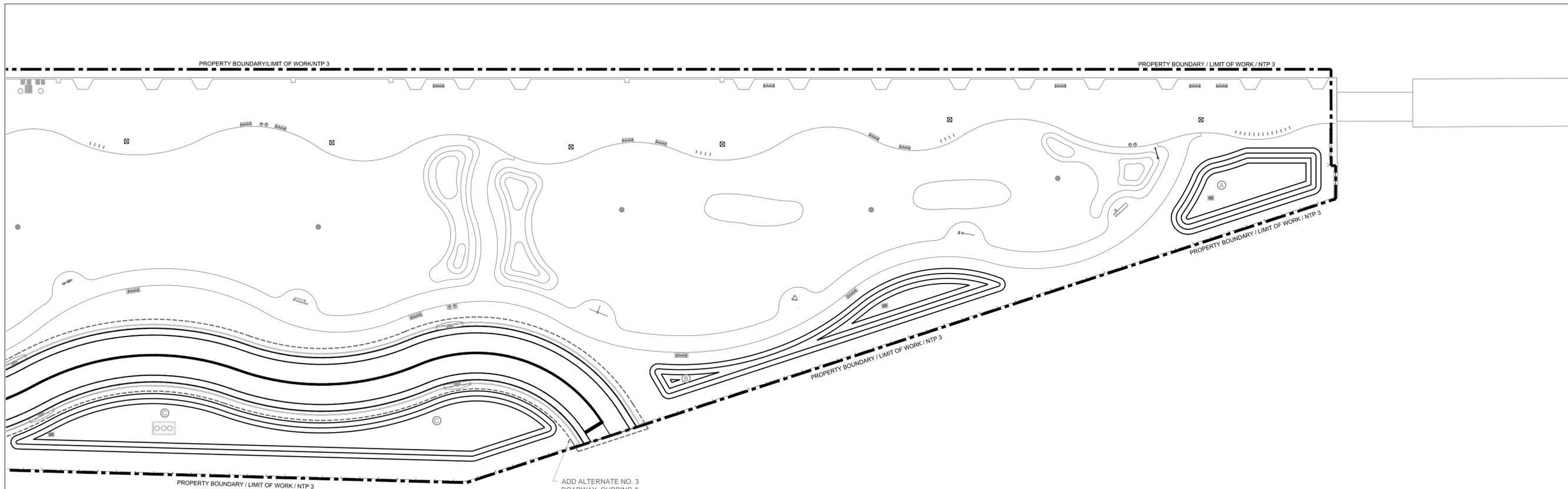
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SEE WS-04, WS-04a, WS-HS FOR REGULATORY SIGN POST/POLE & ATTACHMENT



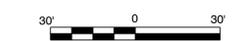
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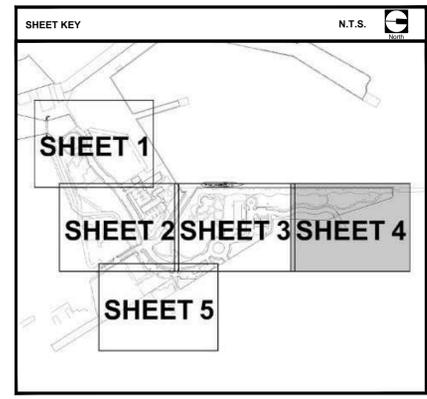


ADD ALTERNATE NO. 3
ROADWAY, CURBING &
STORM STRUCTURES

SEE WS-04, WS-04a, WS-HS FOR REGULATORY
SIGN POST/POLE & ATTACHMENT



SCALE 1"=30'
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KEY WEST, FL 33041

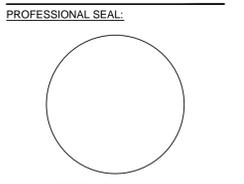


PROJECT NAME:
**TRUMAN
WATERFRONT
PARK**

PROJECT LOCATION/ADDRESS:
TRUMAN WATERFRONT PARK
WEST OF FORT STREET AND THE
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ALLEN E. PEREZ, P.E.
FLORIDA REGISTERED ENGINEER
51468

SUBMITTAL DESCRIPTION / MILESTONE:

**BIDDING
August 30, 2015**

REVISIONS:

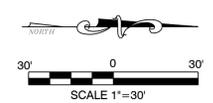
DRAWING SHEET INFORMATION
BA PROJECT NO.: 14041
SCALE: 1" = 30'
DATE: June 25, 2015
DRAWN BY: BGO
CHECKED BY: AEP

DRAWING TITLE:
**SIGNAGE &
PAVEMENT
MARKING PLAN**
SHEET NO.

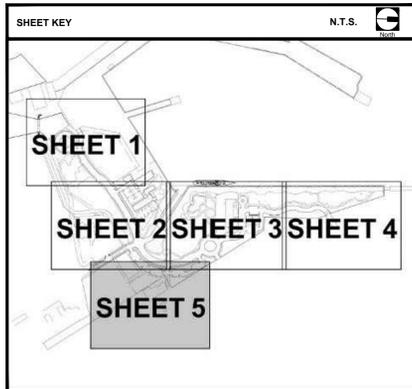
CM-04



SEE WS-04, WS-04a, WS-HS FOR REGULATORY SIGN POST/POLE & ATTACHMENT



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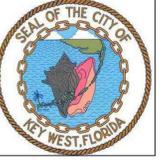


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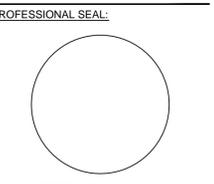


PROJECT NAME:
TRUMAN WATERFRONT PARK

PROJECT LOCATION/ADDRESS:
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 FLORIDA REGISTERED ENGINEER
 51468

SUBMITTAL DESCRIPTION / MILESTONE:

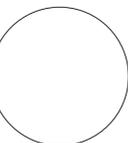
**BIDDING
 August 30, 2015**

REVISIONS:

DRAWING SHEET INFORMATION
 BA PROJECT NO.: 14041
 SCALE: 1" = 30'
 DATE: June 25, 2015
 DRAWN BY: BGO
 CHECKED BY: AEP

DRAWING TITLE:
SIGNAGE & PAVEMENT MARKING PLAN
 SHEET NO.

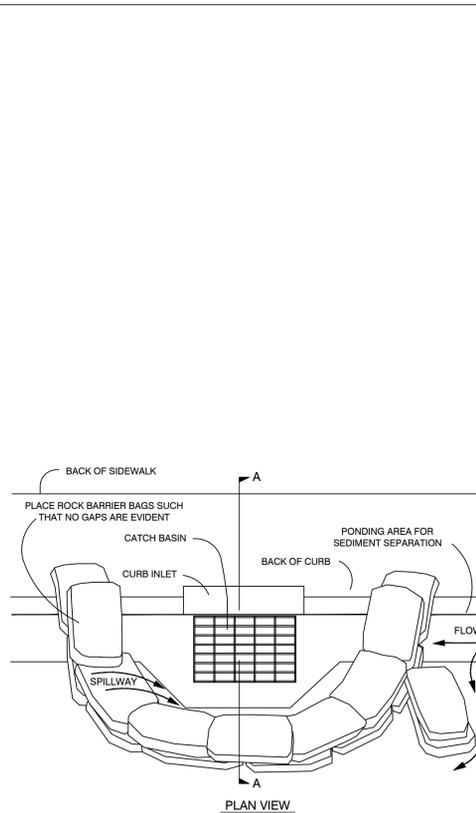
CM-05



BIDDING
August 30, 2015

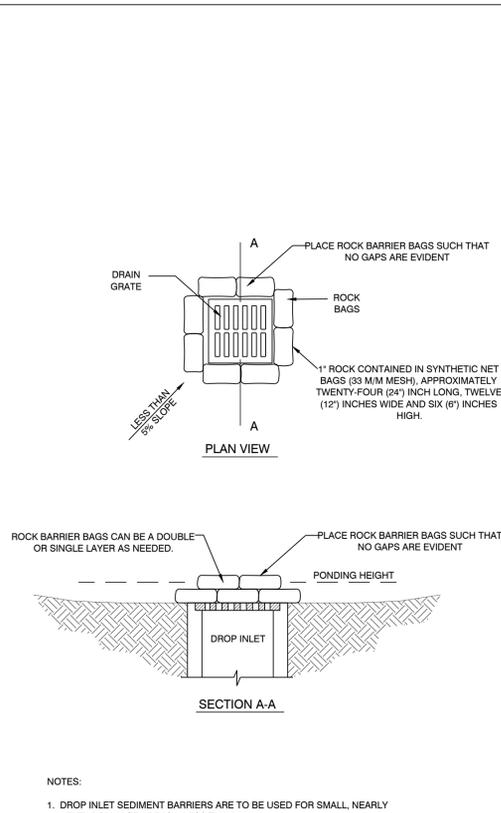
NO.	DESCRIPTION

BA PROJECT NO.: 14041
SCALE: N/A
DATE: June 25, 2015
DRAWN BY: BGO
CHECKED BY: AEP



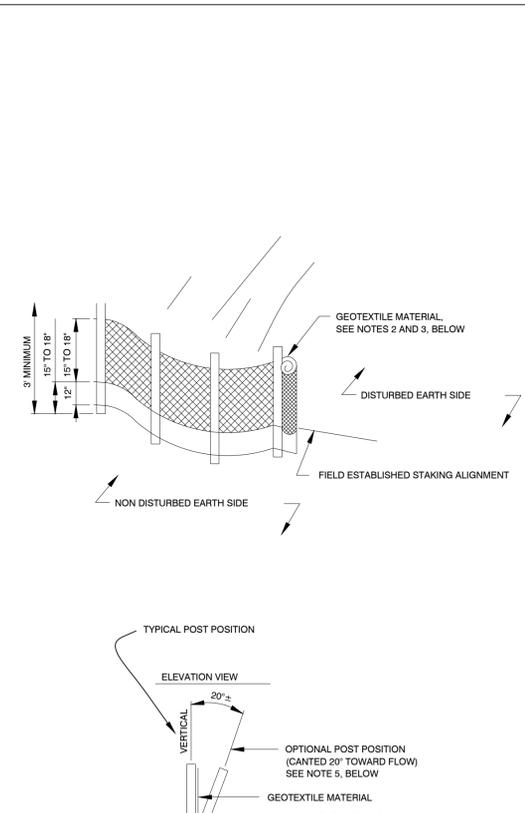
2 Silt Rock Bag Curb Inlet Filter
NTS

- NOTES:
1. ALL ROCK BAG BARRIERS MUST AGREE WITH THE NOTES ON PREVIOUS PAGE.
 2. PLACE CURB TYPE ROCK BAG BARRIER ON GENTLY SLOPING STREET, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
 3. BAGS OF WOVEN GEOTEXTILE FABRIC, FILLED WITH GRAVEL MUST BE LAYERED SUCH THAT NO GAPS ARE EVIDENT.
 4. LEAVE ONE SANDBAG GAP IN THE TOP ROW ON THE SIDE AWAY FROM FLOW, TO PROVIDE A SPILLWAY, OR IN THE CENTER IF PONDING IS NEEDED ON BOTH SIDES.
 5. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT, SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.



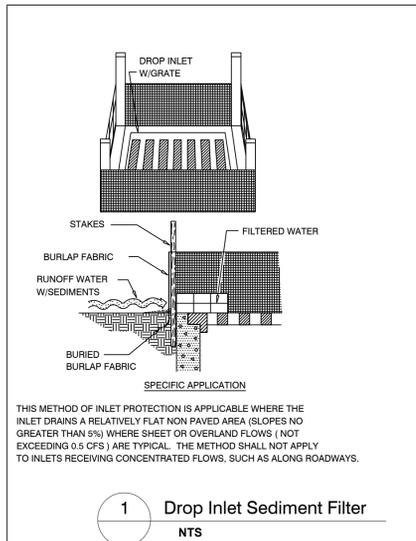
3 Silt Rock Bag Drop Inlet Filter
NTS

- NOTES:
1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS. (LESS THAN 5%)
 2. A 'REASONABLE' DESIGN SIZE PARTICLE TO CAPTURE MUST BE SELECTED.
 3. SIZE DISTRIBUTION OF UPSTREAM SOIL PARTICLES MUST BE EVALUATED.
 4. INFLOW AND OUTFLOW FROM THE SYSTEM FOR A SPECIFIC FREQUENCY STORM MUST BE KNOWN.
 5. POND VOLUME IS DIRECTLY PROPORTIONAL TO THE DISCHARGE RATE OF WATER FROM THE SYSTEM.
 6. POND VOLUME IS INVERSELY PROPORTIONAL TO THE MASS OF THE DESIGN SIZE SUSPENDED PARTICLE.
 7. A SYSTEM MUST PROVIDE SUFFICIENT FLOW TO ALLOW FOR DEPOSITION OF DESIGN SIZE PARTICLES.
 8. THE PONDING HEIGHT MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BYPASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.



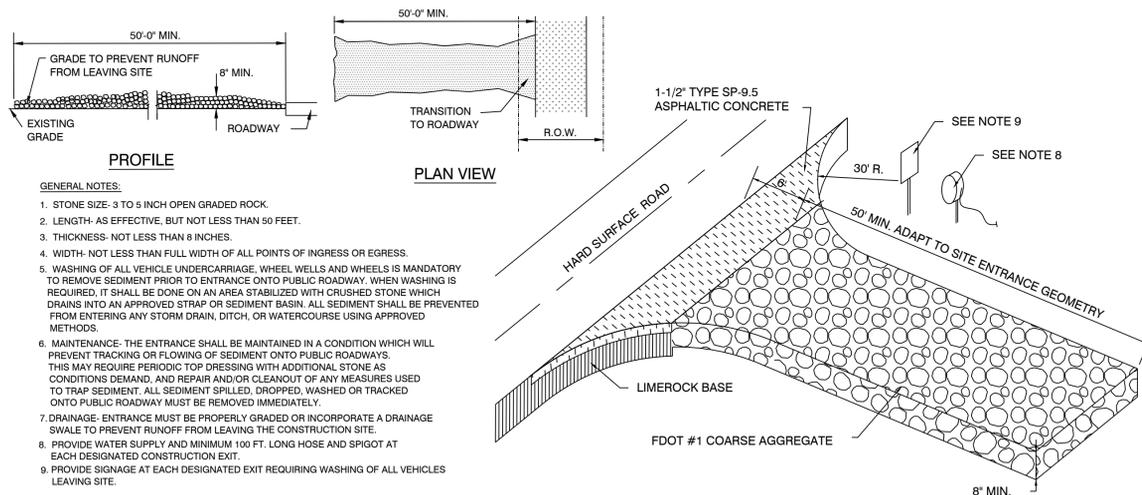
4 Staked Silt Barrier Detail
NTS

- NOTES:
1. POST: 2"x2" WOOD, P.T. OR 2-1/2" O STEEL AT 6' CENTERS, MAXIMUM.
 2. GEOTEXTILE: GRAB TENSILE AT 90 LBS, TRAPEZOIDAL TEAR AT 35 LBS, MULLEN BURST AT 180 PSI.
 3. GEOTEXTILE MATERIAL SHALL BE BURIED IN THE GROUND A MINIMUM OF 12" AND BACK FILLED.
 4. ALSO SEE FDOT INDEX 199, 'GEOTEXTILE CRITERIA', EROSION CLASS.
 5. OPTIONAL POST POSITION REQUIRED WHEN SLOPE IS GREATER THAN 1:2.



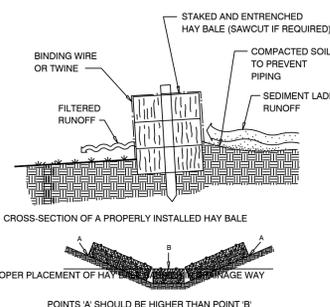
1 Drop Inlet Sediment Filter
NTS

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT NON PAVED AREA (SLOPES NO GREATER THAN 5%) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 CFS) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS ALONG ROADWAYS.



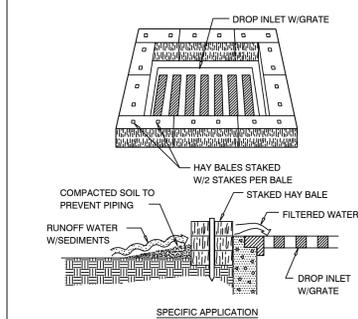
7 Gravel Construction Entrance
NTS

- GENERAL NOTES:
1. STONE SIZE: 3 TO 5 INCH OPEN GRADED ROCK.
 2. LENGTH: AS EFFECTIVE, BUT NOT LESS THAN 50 FEET.
 3. THICKNESS: NOT LESS THAN 8 INCHES.
 4. WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
 5. WASHING OF ALL VEHICLE UNDERCARRIAGE, WHEEL WELLS AND WHEELS IS MANDATORY TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED STRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE USING APPROVED METHODS.
 6. MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY.
 7. DRAINAGE: ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
 8. PROVIDE WATER SUPPLY AND MINIMUM 100 FT. LONG HOSE AND SPIGOT AT EACH DESIGNATED CONSTRUCTION EXIT.
 9. PROVIDE SIGNAGE AT EACH DESIGNATED EXIT REQUIRING WASHING OF ALL VEHICLES LEAVING SITE.



5 Hay Bale Barrier
NTS

- NOTES:
1. EXCAVATE THE TRENCH
 2. PLACE AND STAKE HAY BALES
 3. WEDGE LOOSE STRAW BETWEEN BALES
 4. BACK FILL AND COMPACT THE EXCAVATED SOIL



6 Hay Bale Drop Inlet Filter
NTS

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5%) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 CFS) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS ALONG ROADWAYS.

ENVIRONMENTAL LAND USE CONTROLS NOTE:
PRIOR TO ANY AND ALL CONSTRUCTION ACTIVITIES, THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING IF LOCATION OF CONSTRUCTION ACTIVITIES ARE SUBJECT TO ENVIRONMENTAL LAND USE CONTROLS (LUC). ANY AND ALL ENCOUNTERED CONTAMINATED SOIL AND OR GROUNDWATER SHALL BE HANDLED PER THE "SOIL AND GROUND WATER MANAGEMENT PLAN", DATED FEBRUARY 13, 2015 INCLUDED IN THE PROJECT MANUAL. CONTRACTOR SHALL VERIFY THAT LUC CONSTRUCTION PERMIT HAS BEEN FILED AND APPROVED FOR THIS WORK.



BERMELLO AJAMIL & PARTNERS • INC

Architecture • Engineering • Planning Interior Design • Landscape Architecture Suite 1000 2601 South Baysshore Drive Miami, Florida 33133 (305) 859-2050 Fax (305) 860-3700

PREPARED FOR OWNER: CITY OF KEY WEST, FL P. O. BOX 1409 3140 FLAGLER AVENUE KEY WEST, FL 33041



PROJECT NAME:

TRUMAN WATERFRONT PARK

PROJECT LOCATION/ADDRESS:

TRUMAN WATERFRONT PARK WEST OF FORT STREET AND THE TRUMAN ANNEX DEVELOPMENT, NORTH OF KEY WEST NAVAL BASE

SUB-CONSULTANT INFORMATION:

PEREZ ENGINEERING & DEVELOPMENT, INC. Certificate of Authorization No. 8579

1010 Kennedy Drive Suite 201 Key West, Florida 33040 (305) 293-9440 Fax (305) 296-0243

PROFESSIONAL SEAL:

ALLEN E. PEREZ, P.E. FLORIDA REGISTERED ENGINEER 51468

SUBMITTAL DESCRIPTION / MILESTONE:

BIDDING August 30, 2015

REVISIONS:

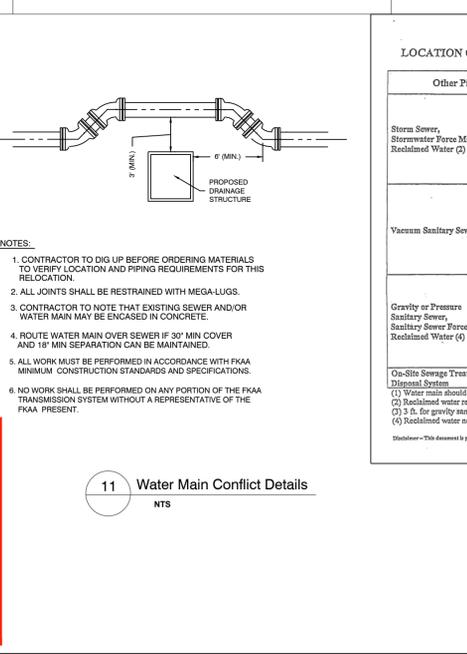
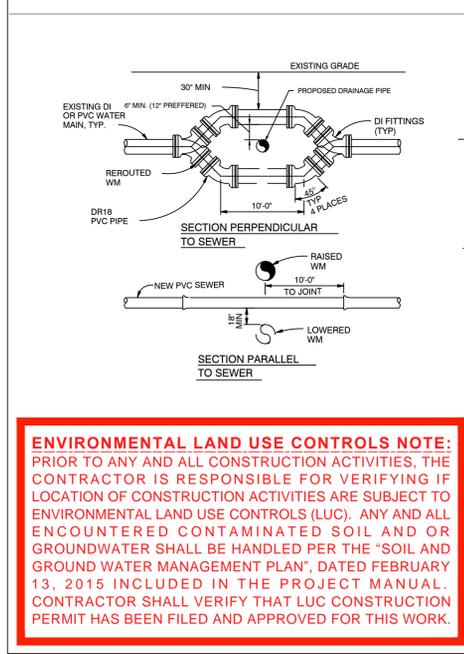
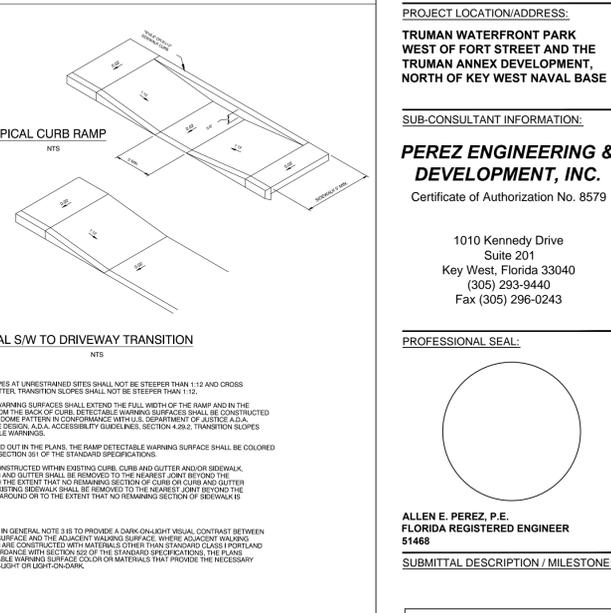
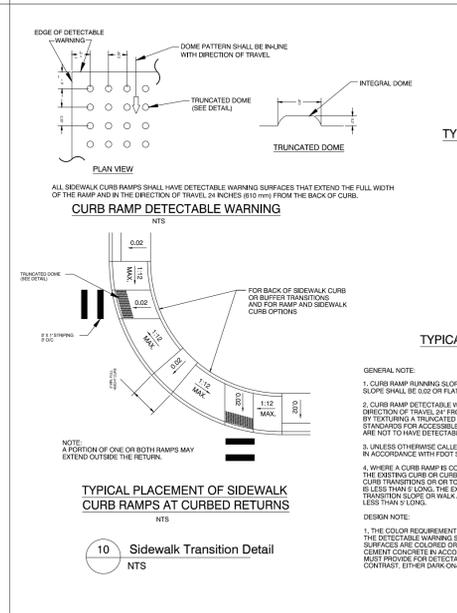
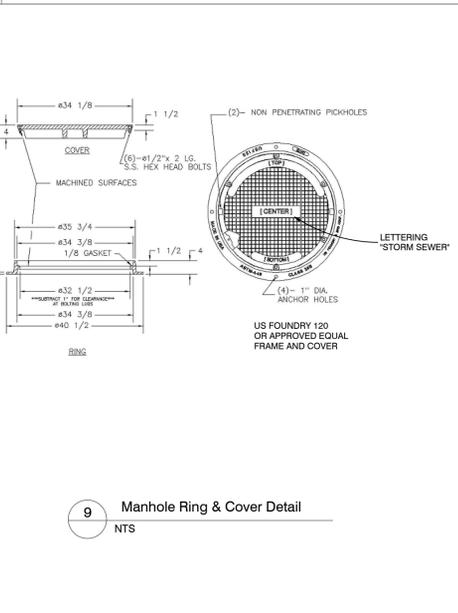
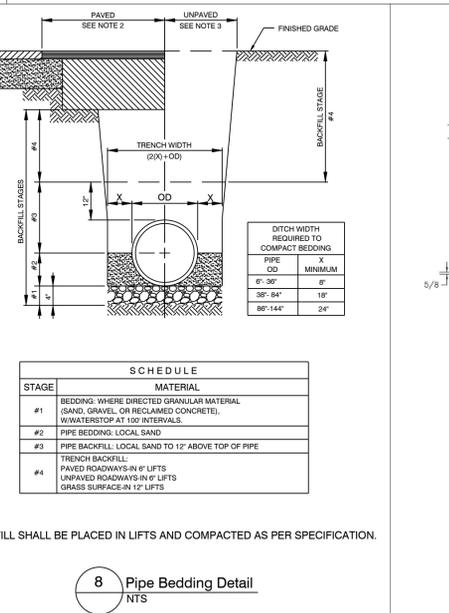
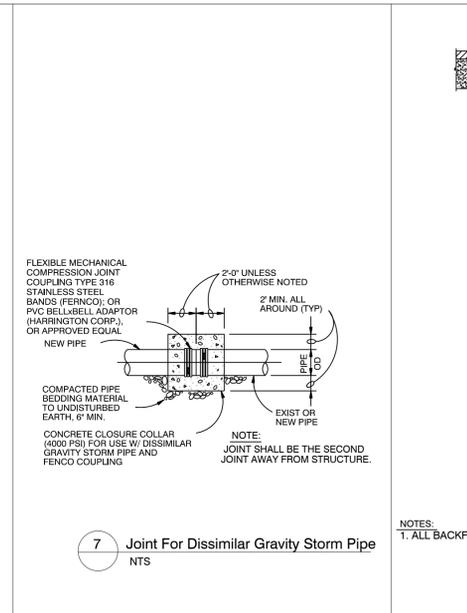
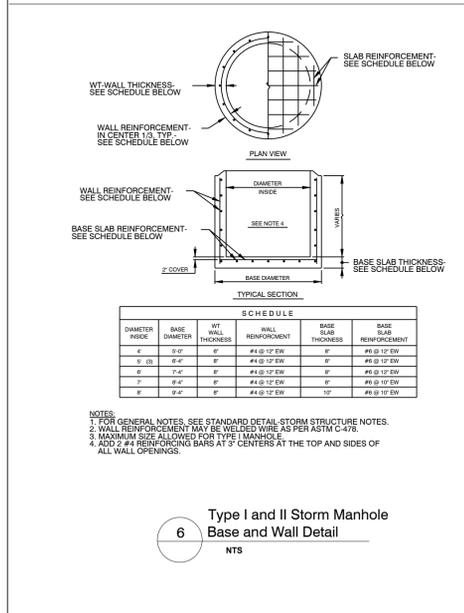
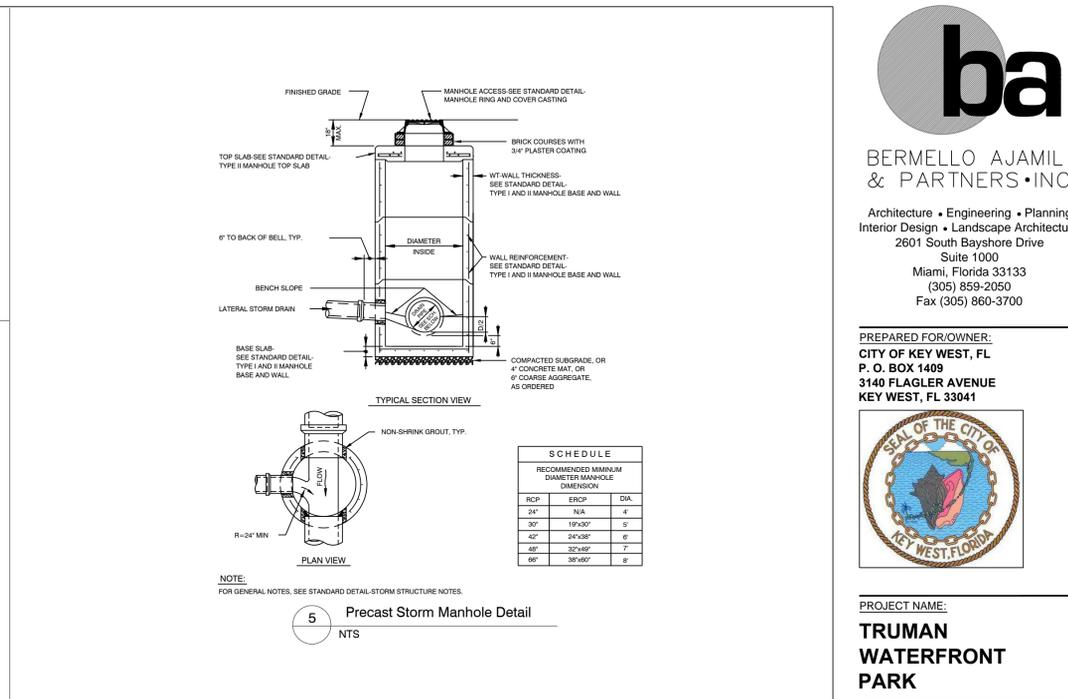
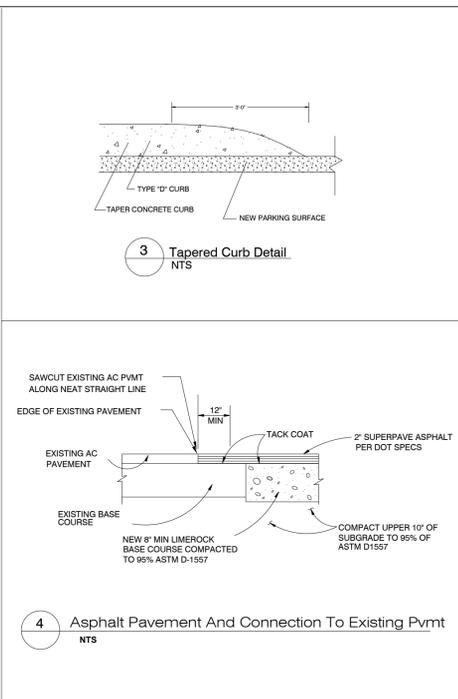
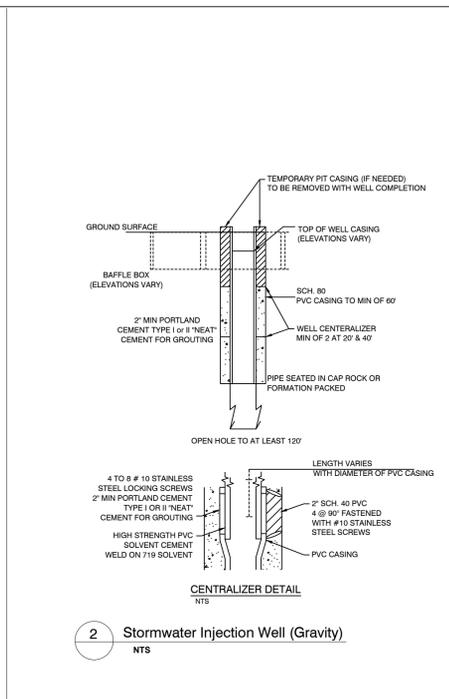
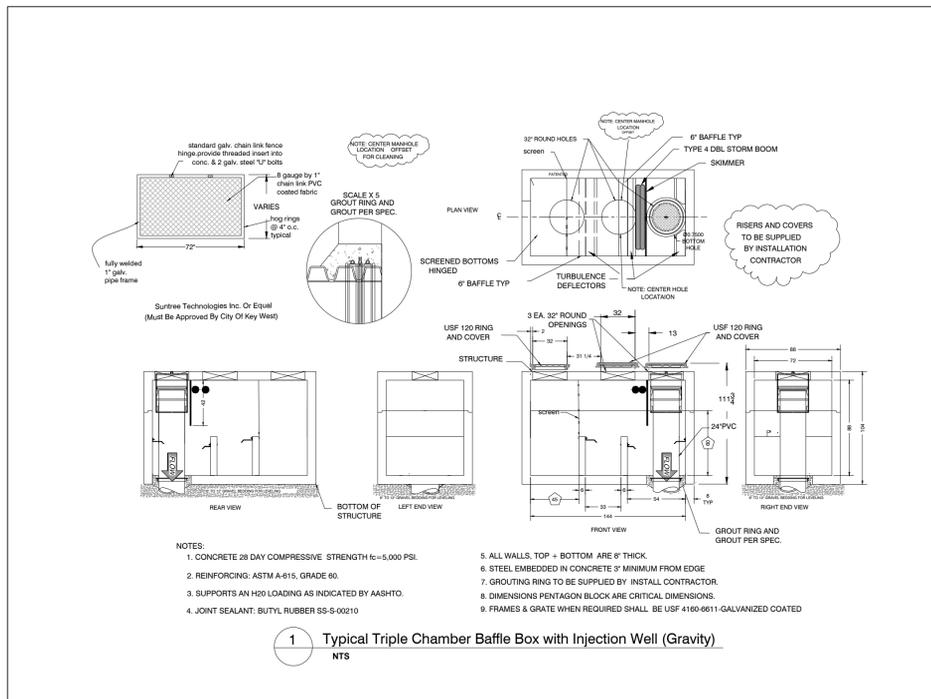
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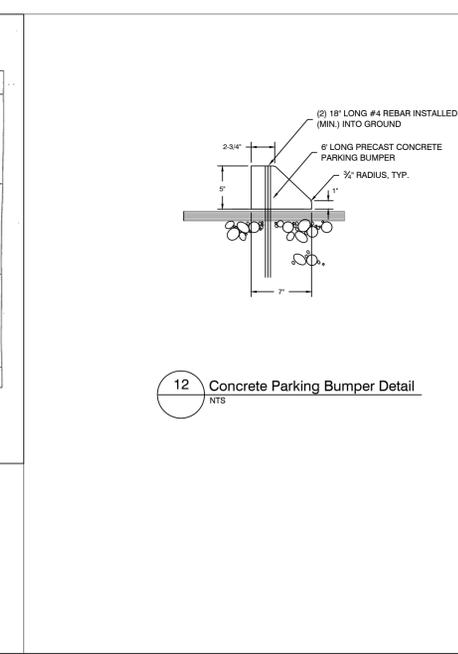
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SHEET NO.

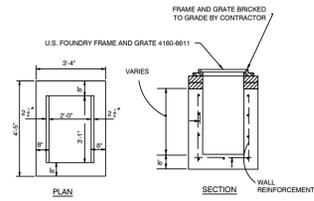
CD-02



LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.314. Table with columns for Other Pipe, Horizontal Separation, Crossings (1), and Joint Spacing @ Crossings (Full Joint Centered). Rows include Storm Sewer, Vacuum Sanitary Sewer, Gravity or Pressure Sanitary Sewer, and On-Site Sewage Treatment & Disposal System.

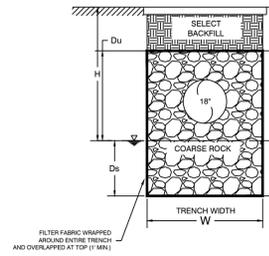


ENVIRONMENTAL LAND USE CONTROLS NOTE: PRIOR TO ANY AND ALL CONSTRUCTION ACTIVITIES, THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING IF LOCATION OF CONSTRUCTION ACTIVITIES ARE SUBJECT TO ENVIRONMENTAL LAND USE CONTROLS (LUC). ANY AND ALL ENCOUNTERED CONTAMINATED SOIL AND OR GROUNDWATER SHALL BE HANDLED PER THE "SOIL AND GROUND WATER MANAGEMENT PLAN", DATED FEBRUARY 13, 2015 INCLUDED IN THE PROJECT MANUAL. CONTRACTOR SHALL VERIFY THAT LUC CONSTRUCTION PERMIT HAS BEEN FILED AND APPROVED FOR THIS WORK.

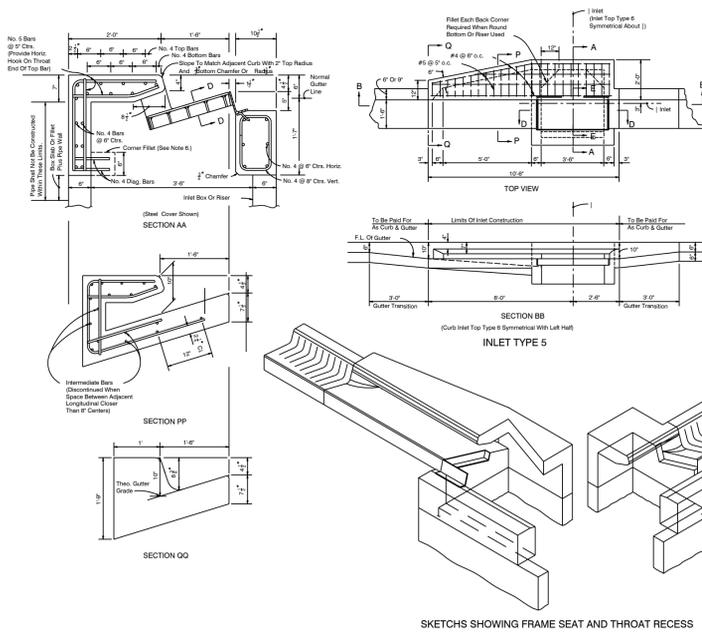


- NOTES:**
1. CONCRETE SHALL BE 4000 PSI AT 28 DAYS, TYPE II CEMENT.
 2. ALL REINFORCEMENT MAY BE WELDED WIRE AS PER ASTM C-478, #4 @ 12" O.C. E-W.
 3. FRAME AND GRATE BRICKED TO GRADE BY CONTRACTOR.
 4. BOTTOM INLETS SHALL BE USP PRODUCT NO. 3-3 OR EQUAL.
 5. STRUCTURES TO BE SET ON COARSE AGGREGATE BEDDING.

1 FDOT Ditch Bottom Inlet Type "C" NTS



2 Exfiltration Trench Detail NTS

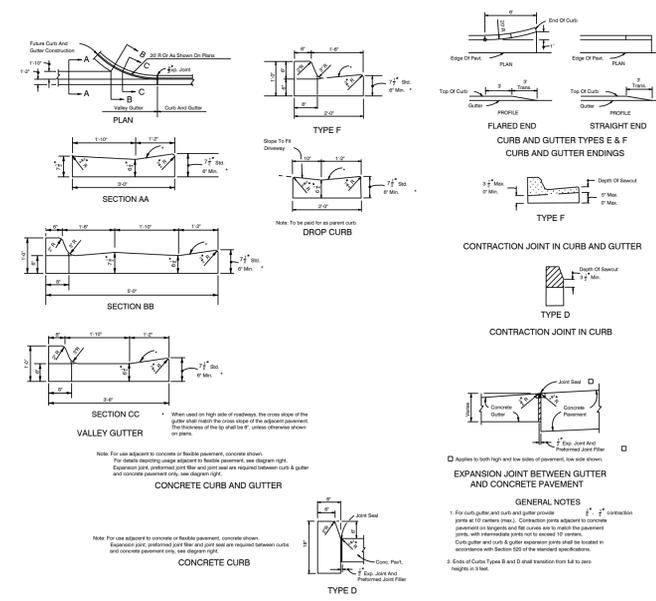


3 FDOT Curb Inlet Type '5 & 6' NTS

- GENERAL NOTES:**
1. The finished grade and slope of the inlet tops are to conform with the finished cross slope and grade of the proposed sidewalk and/or pathway.
 2. When there are to be constructed on a curve, refer to the plans to determine the radius and, where necessary, modify the inlet details accordingly. Bend steel where necessary.
 3. All reinforcing steel shall have minimum cover unless otherwise shown. Inlet tops shall be either cast in place or precast concrete.
 4. Precast of the inlet top will be permitted. Precast units shall conform to the dimensions shown or in accordance with approved shop drawings. Request for shop drawing approval shall be directed to the State Design Engineer.
 5. Concrete meeting the requirements of A.S.T.M. C 478 (4000 P.S.I.) may be used in lieu of Class - concrete for precast units, manufactured in plants which are under the Standard Operating Procedures for the inspection of precast drainage products.
 6. The corner bars shown for rectangular inlets are necessary only when there are to be used in conjunction with circular curb bottom or when used on steel with rectangular inlet tops.
 7. For inlet bottoms see Index No. 200.
 8. These inlet tops are designed for use with standard curb and gutter Type E and Type F. Locate outside of pedestrian crosswalk where practical.
 9. See Index 001 for supplementary details.
 10. All steel used for frames and cover shall meet the requirements of ASTM A-36.
 11. Either cast iron covers or steel covers may be used. Iron covers shall be Class No. 30 castings in accordance with ASTM A-48.
 12. When Alternate 10' Cover is specified in plans within the cast iron cover and galvanized steel frames or the galvanized steel cover and frame must be used. Covers are to be grouted in accordance with the grouting detail shown on sheet 2-12.2 in lieu of backfilling.
 13. Inlet to be paid for under the contract unit price for inlets.
 14. Inlets are to include an Environmental Awareness Message via a Durocast Storm Drain Marker (or approved equal). Cost for marker to be included in unit price for inlets.

TOP MODIFICATION FOR TYPE E CURB

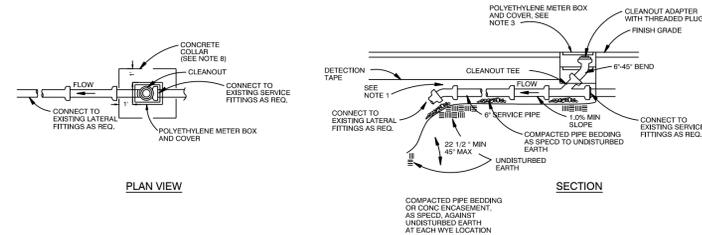
SKETCHES SHOWING FRAME SEAT AND THROAT RECESS



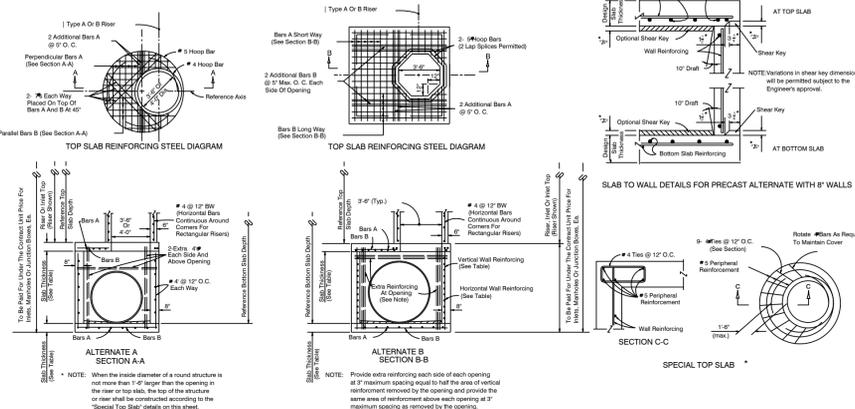
- GENERAL NOTES:**
1. For curb and gutter with joint panels.
 2. Expansion joint between gutter and concrete pavement.
 3. Expansion joint between gutter and concrete pavement.
 4. Expansion joint between gutter and concrete pavement.

4 Curb & Gutter Detail NTS

- NOTES:**
1. CONTRACTOR SHALL PROVIDE AN ADEQUATE SUPPLY OF 22 1/2" x 45" AND 6" WYRES BENDS TO MEET VARYING FIELD CONDITIONS.
 2. LENGTH OF SERVICE PIPE VARIES AT EACH SERVICE CONNECTION AND SHALL BE PROVIDED AS REQUIRED TERMINATE SERVICE AT LOCATION DIRECTED BY THE ENGINEER.
 3. INSTALL MULTIPLE METER BOXES AS REQUIRED TO BRING TO GRADE.
 4. IF SERVICE PIPE MATERIAL IS NOT THE SAME AS SEWER MAIN, CONNECTION SHALL BE APPROVED PRIOR TO CONSTRUCTION.
 5. WHERE ADEQUATE SEPARATION BETWEEN WATER MAIN AND SEWER LATERAL CANNOT BE PROVIDED INSTALL 4" OR 3" SLEEVE AS DIRECTED BY THE ENGINEER.
 6. FOR SERVICE CONNECTION REPAIRS, CONTRACTOR SHALL REPLACE A MINIMUM OF 4' OF 6" PVC AND/OR FITTINGS AS REQUIRED.
 7. ALL NEW CLEAN OUTS INSTALLED THAT ARE NOT IN CITY CONCRETE SIDEWALKS SHALL HAVE A 4" THICK CONCRETE COLLAR.

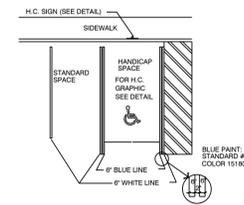


5 Typical Service Connection NTS

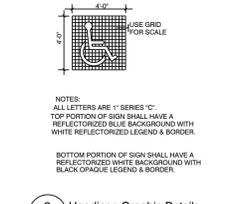


- GENERAL NOTES:**
1. Standard structure bottoms 4' diameter and smaller (A, B) and 3' of square (A, B) are designated Type P. Larger standard structure bottoms are designated Type J. Rebar is permitted for all structures.
 2. Walls of circular structures (Alternate A) constructed in place may be of non-reinforced concrete or brick or reinforced concrete. Precast and rectangular structures (Alternate B) shall be constructed of reinforced concrete only.
 3. Wall thickness and reinforcement are for other reinforced cast-in-place or precast concrete units except precast circular units may be furnished with steel reinforcement with steel C.I. or A.S.T.M. C-110 (15,000 P.S.I.) diameter or A.S.T.M. C-76 (20,000 P.S.I.) diameter. All C.I. and A.S.T.M. C-76 units shall be furnished with the minimum steel cage area as shown in the cross-section of the wall.
 4. Top and floor slab thickness and reinforcement are for precast and cast in place construction. Top and floor slabs shall be of Class - concrete. Concrete as specified in A.S.T.M. C-478 (4000 P.S.I.) may be used in lieu of Class - and Class - concrete in precast items manufactured in plants which are under the Standard Operating Procedures for the inspection of precast drainage products.
 5. All reinforcement shall be A.S.T.M. A-615, Grade 60 or 65 (ksi) welded wire mesh, either uncoated or galvanized.
 6. Structure bottoms may be used in conjunction with curb inlet Type 1, 2, 3, 4, 5, 6, 8, 9, and 10, and any manhole or junction box unless otherwise shown in the plan or other standard drawings.
 7. Walls of circular structures (Alternate A) constructed in place may be of non-reinforced concrete or brick or reinforced concrete. Precast and rectangular structures (Alternate B) shall be constructed of reinforced concrete only.
 8. Reinforced concrete structure bottoms shall be constructed of reinforced concrete.
 9. All steel bar shall have minimum cover unless otherwise shown except for precast concrete units manufactured under ASTM C-76 or ASTM C-78, uncoated steel in rectangular structures shall be a minimum of 24 bar diameters of concrete.
 10. The corner bars shown are necessary for rectangular structures used with circular inlets and shall be used on show with rectangular manhole, inlet and inlet throats. Flats will be required in lieu of the bottom slab of the A, B, C, or D when used with the A, B, C, or D. Each flat shall be reinforced with 3 #4 bars.
 11. Inlet throats, riser or manhole tops shall be detailed to structures as shown on Index No. 201.
 12. Structures with depths over 14' are to be checked for foundation by designer of project drainage.
 13. Units larger than specified standard may be substituted at the contractor's option when these units will not cause or increase the severity of utility conflicts. Such larger units shall be furnished at no additional cost to the Department. Larger diameter A-curve covered manhole alternatives units without approval of the Engineer. This note applies to this Index only.
 14. For manhole and junction box tops, for frames and covers, and, for supplementary details see Index No. 201.

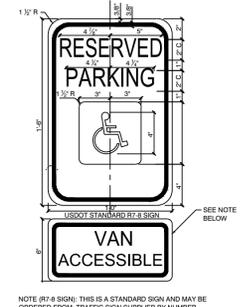
6 FDOT Structure Bottoms Type 'J' & 'P' NTS



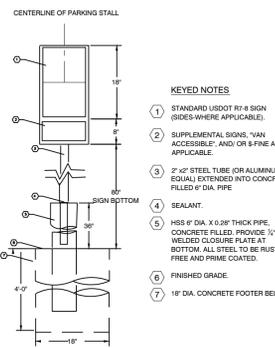
7 Handicap Parking Details NTS



8 Handicap Graphic Details NTS



9 Accessible Parking Sign and Post NTS



10 Accessible Parking Sign and Post NTS

- KEYED NOTES:**
1. STANDARD USDOT R7-8 SIGN (SIDES-WHERE APPLICABLE).
 2. SUPPLEMENTAL SIGNS, "VAN ACCESSIBLE" AND "R7-8" AS APPLICABLE.
 3. 2" x 2" STEEL TUBE, OR ALUMINUM EQUAL EXTENDED INTO CONCRETE FILLED 1/2" DIA. PIPE.
 4. SEALANT.
 5. HSS 6" DIA. X 0.28" THICK PIPE, CONCRETE FILLED, PROVIDE 1/2" WELDED COUPLER PLATE AT BOTTOM. ALL STEEL TO BE RUST FREE AND PRIME COATED.
 6. FINISHED GRADE.
 7. 12" DIA. CONCRETE FOOTER BELOW.

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PREPARED FOR OWNER:
CITY OF KEY WEST, FL
P. O. BOX 1400
3140 FLAGLER AVENUE
KEY WEST, FL 33041



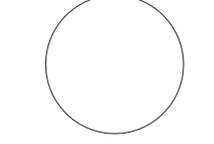
PROJECT NAME:
TRUMAN WATERFRONT PARK

PROJECT LOCATION/ADDRESS:
TRUMAN WATERFRONT PARK
WEST OF FORT STREET AND THE
TRUMAN ANNEX DEVELOPMENT,
NORTH OF KEY WEST NAVAL BASE

SUB-CONSULTANT INFORMATION:
PEREZ ENGINEERING & DEVELOPMENT, INC.
Certificate of Authorization No. 8579

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PROFESSIONAL SEAL:



ALLEN E. PEREZ, P.E.
FLORIDA REGISTERED ENGINEER
51468

SUBMITTAL DESCRIPTION / MILESTONE:

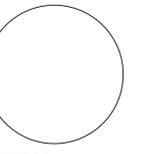
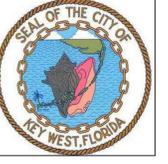
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August 30, 2015

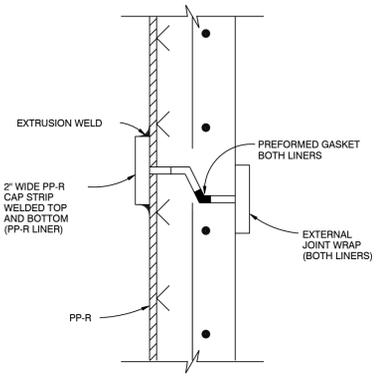
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CHECKED BY: AEP

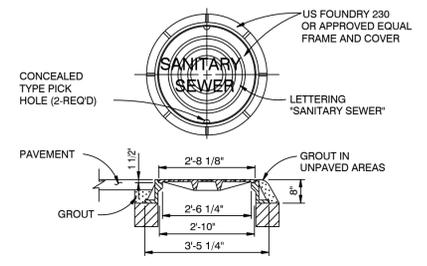
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CIVIL DETAILS

SHEET NO.
CD-03

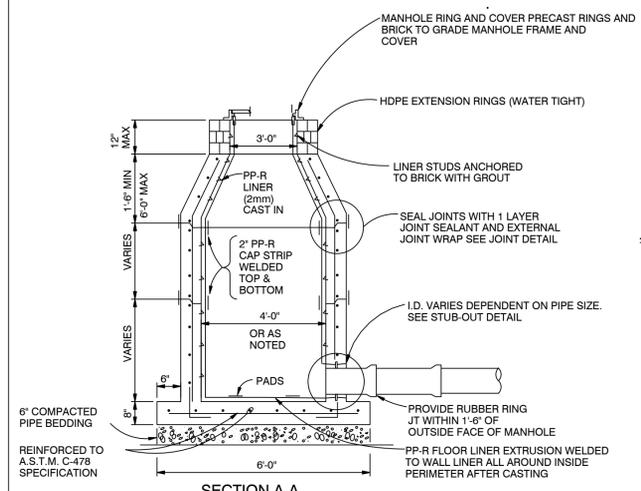




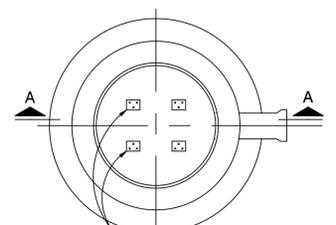
1 Joint Detail
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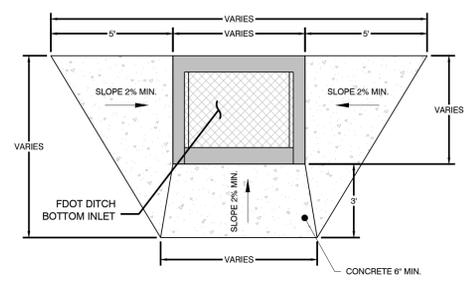
2 Standard Manhole Frame & Cover
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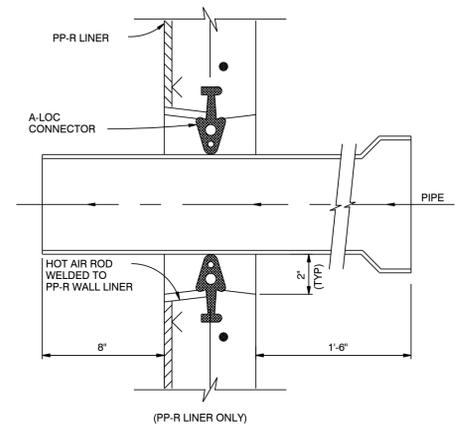
3 Precast Manhole
 NTS



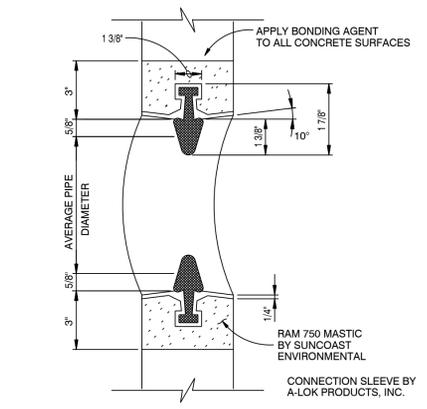
PLAN
 NOTE:
 PP-R LINER SHOWN ONLY
 REFER TO SPECIFICATIONS
 FOR FIBERGLASS



4 Concrete Apron Detail
 NTS



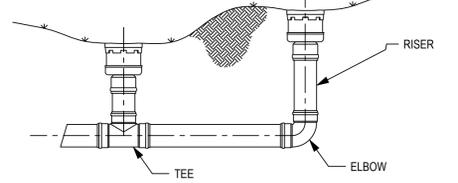
5 Sewer Stubouts in Manholes
 NTS



6 Manhole Connection Sleeve
 NTS
 NOTE: REFER TO SPECIFICATIONS FOR CONNECTION TO EXISTING FIBERGLASS LINED MANHOLE.

WHEN ARE INLINE DRAINS USED?

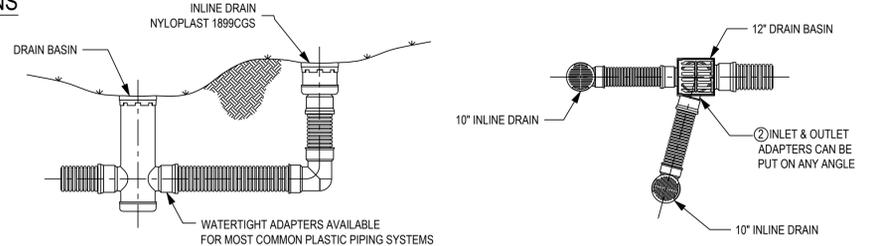
- 1: TO ENTER AN EXISTING LINE USING A TEE & RISER
- 2: AT THE BEGINNING OF A DRAIN LINE USING AN ELBOW & RISER



TYPICAL INSTALLATIONS

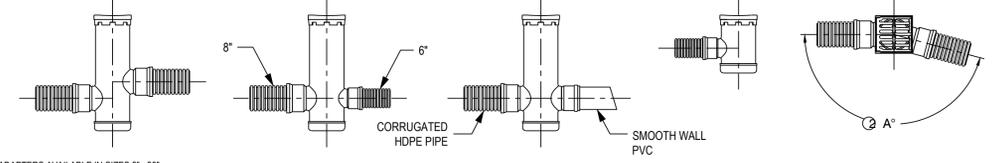
TYPICAL INSTALLATION OF NYLOPLAST DRAIN BASIN AND INLINE DRAIN

3 VARIABLE ELEVATION



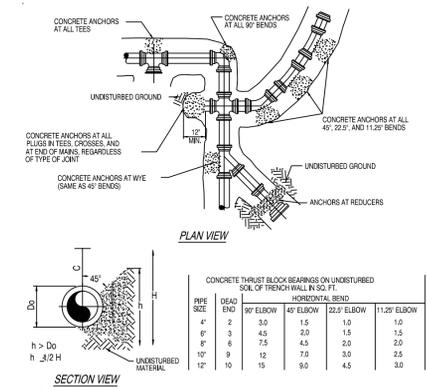
WHEN ARE DRAIN BASINS USED?

- 1: TO CHANGE ELEVATION
- 2: TO CHANGE PIPE DIAMETER
- 3: TO CHANGE PIPE TYPE
- 4: FOR SHALLOW APPLICATIONS
- 5: TO CHANGE DIRECTION



7 Nyloplast Basins: 8"-30" Typical Installation
 NTS

- 1 - STRUCTURES & ADAPTERS AVAILABLE IN SIZES 8" - 30"
- 2 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°, TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012, 7001-110-013, & 7001-110-014
- 3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS SEE DRAWING NO. 7001-110-065



PIPE SIZE	DEAD END	HORIZONTAL BEND		
		45° ELBOW	22.5° ELBOW	11.25° ELBOW
4"	2	3.0	1.5	1.0
6"	3	4.5	2.0	1.5
8"	6	7.5	4.5	2.0
10"	9	12	7.0	3.0
12"	12	15	9.0	4.5

8 Thrust Restraint - Thrust Blocks
 NTS

ENVIRONMENTAL LAND USE CONTROLS NOTE:
 PRIOR TO ANY AND ALL CONSTRUCTION ACTIVITIES, THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING IF LOCATION OF CONSTRUCTION ACTIVITIES ARE SUBJECT TO ENVIRONMENTAL LAND USE CONTROLS (LUC). ANY AND ALL ENCOUNTERED CONTAMINATED SOIL AND OR GROUNDWATER SHALL BE HANDLED PER THE "SOIL AND GROUND WATER MANAGEMENT PLAN", DATED FEBRUARY 13, 2015 INCLUDED IN THE PROJECT MANUAL. CONTRACTOR SHALL VERIFY THAT LUC CONSTRUCTION PERMIT HAS BEEN FILED AND APPROVED FOR THIS WORK.



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PREPARED FOR/OWNER: CITY OF KEY WEST, FL P. O. BOX 1409 3140 FLAGLER AVENUE KEY WEST, FL 33041



PROJECT NAME:

TRUMAN WATERFRONT PARK

PROJECT LOCATION/ADDRESS: TRUMAN WATERFRONT PARK WEST OF FORT STREET AND THE TRUMAN ANNEX DEVELOPMENT, NORTH OF KEY WEST NAVAL BASE

SUB-CONSULTANT INFORMATION:

PEREZ ENGINEERING & DEVELOPMENT, INC.

Certificate of Authorization No. 8579

1010 Kennedy Drive Suite 201 Key West, Florida 33040 (305) 293-9440 Fax (305) 296-0243

PROFESSIONAL SEAL:

ALLEN E. PEREZ, P.E. FLORIDA REGISTERED ENGINEER 51468

SUBMITTAL DESCRIPTION / MILESTONE:

BIDDING August 30, 2015

REVISIONS:

DRAWING SHEET INFORMATION

BA PROJECT NO.: 14041 SCALE: N/A DATE: June 25, 2015 DRAWN BY: BGO CHECKED BY: AEP

DRAWING TITLE: CIVIL DETAILS

SHEET NO.

CD-05

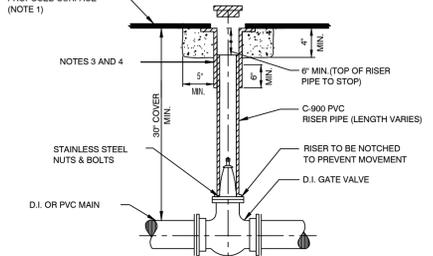
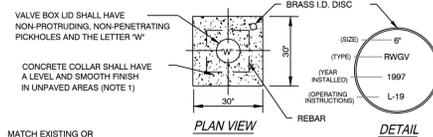
PVC PIPE RESTRAINT JOINT SCHEDULE

Table with columns: NOMINAL PIPE SIZE (IN), HORIZONTAL BENDS, VERTICAL OFFSETS, RESTRAINT LENGTH (IN), and FITTING TYPE. Includes rows for various pipe sizes and bend types.

PVC PIPE RESTRAINT NOTES

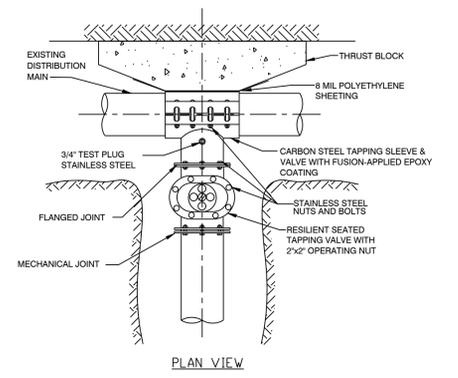
- 1. THIS SCHEDULE SHALL BE UTILIZED ON ALL WATER, SEWER FORCE MAIN OR RECLAIMED WATER SYSTEMS. ALL FITTINGS SHALL BE RESTRAINED TO LENGTHS INDICATED ON THE ABOVE SCHEDULE, AT A MINIMUM.
2. ASSUMPTIONS: PVC PIPE, SAFETY FACTOR = 1.5, TEST PRESSURE = 150 PSI, 30" x 6" OR 36" x 8" TRENCH TYPE 3, DEPTH OF COVER = 30".
3. BENDS AND VALVES SHALL BE RESTRAINED ON EACH SIDE OF FITTING.
4. VERTICAL OFFSETS: ARE APPROX. 3 FEET COVER ON TOP AND APPROX. 8 FEET COVER ON BOTTOM. PER THE DETAILS, L1 IS THE RESTRAINED LENGTH FOR THE UPPER (TOP) LEVEL, L2 IS THE RESTRAINED LENGTH FOR THE LOWER (DEEPER) LEVEL. ASSUME AS DEEMED BENE.
5. TEES: TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (BOTH) SHALL BE A TOTAL DISTANCE OF 30 FEET (MIN) SEE SCHEDULE ABOVE FOR RESTRAINT LENGTH ON TEE BRANCH LINE.
6. PIPE TOP TRANSITIONS: THE PVC PIPE SIZE SHALL BE RESTRAINED 25 FEET (MIN).

1 Restraint Joint Distances NTS



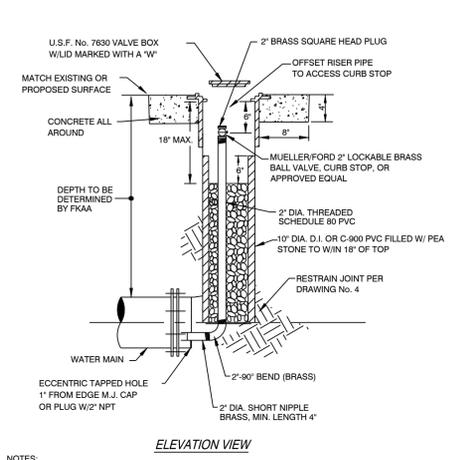
- NOTES:
1. CONCRETE COLLAR ALSO MAY BE FORMED AS A 30" DIA. CIRCLE UNDER PAVEMENT.
2. IN UNPAVED AREA INSTALL VALVE BOX LID 1/2" ABOVE SURFACE. #5 REBAR SHALL BE REQUIRED.
3. U.S.F. No. 7615 OR APPROVED EQUAL WITH 6" DIA. RISER FOR VALVES 6" DIA. OR SMALLER.
4. U.S.F. No. 7630 OR APPROVED EQUAL WITH 10" DIA. RISER FOR VALVES 8" DIA. OR LARGER.
5. RESTRAIN AS REQUIRED PER DETAIL NO. 4.

2 Gate Valve and Box NTS



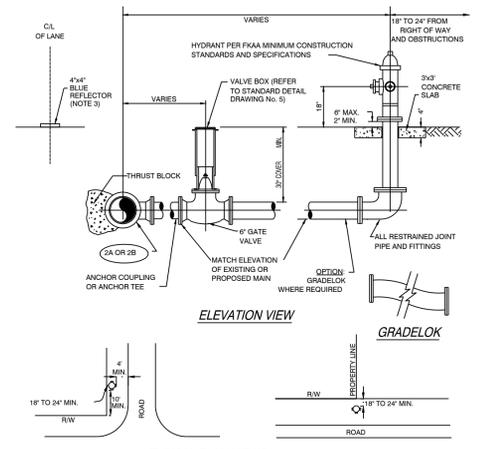
- NOTES:
1. PRESSURE TEST INSTALLED TAPPING SLEEVE AND VALVE ASSEMBLY BEFORE TAPPING EXISTING MAIN. SEE FKAA MINIMUM CONSTRUCTION STANDARDS & SPECIFICATIONS.
2. SEE FKAA MINIMUM CONSTRUCTION STANDARDS & SPECIFICATIONS FOR LIST OF APPROVED TAPPING SLEEVES AND VALVES.
3. ALL TAPS SHALL BE MADE WITH AN APPROVED TAPPING DEVICE.

3 Tapping Sleeve and Valve NTS



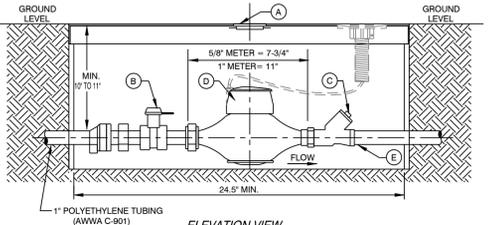
- NOTES:
1. TO BE USED AT LINE END WHERE FLUSH-OUT ASSEMBLY IS SPECIFIED.
2. IN UNPAVED AREA INSTALL VALVE BOX LID 1/2" ABOVE SURFACE. #5 REBAR SHALL BE REQUIRED.
3. ALL PIPE TO BE SCHEDULE 80 PVC.
4. ALL FITTINGS TO BE BRASS.

4 Flush-out Assembly NTS



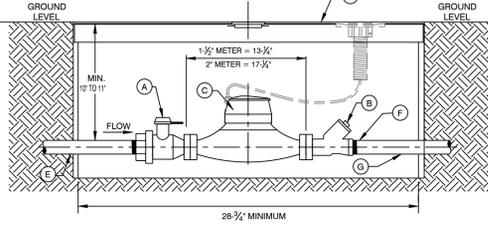
- NOTES:
1. CONCRETE SLAB MAY BE ELIMINATED IN AREAS WHERE SIDEWALK IS INSTALLED PRIOR TO FINAL ACCEPTANCE OF THE HYDRANT.
2. TAPPING SLEEVE AND VALVE USED WHEN EXISTING LINE IS HOT.
2B. TEE-USED WHEN LINE IS NEW.
3. INSTALL 2-SIDED BLUE REFLECTORS WITH BUTYL PADS. INSTALL IN THE CENTER OF THE LANE ON THE SIDE OF HYDRANT INSTALLATION.

5 Hydrant Assembly Installation NTS



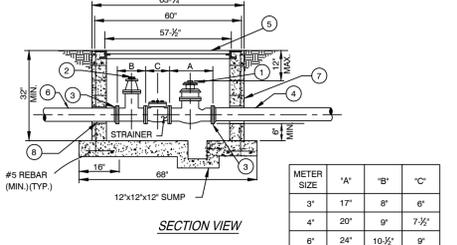
- A= METER BOX AND LID BOX-OLDCASTLE PRECAST #02001032-FL12T FIBRELYTE GRAY COMPOSITE BOX (W/MOUSE HOLES)
LID-OLDCASTLE PRECAST #02001031-FL12 LID/118 FIBRELYTE GRAY COMPOSITE NEPTUNE OFFSET-PROBE PROVISION FKAA WATER
NOTE: METER BOXES MUST HAVE LIDS IN PLACE PRIOR TO POURING THE CONCRETE.

6 8" & 1" Meter w/ Dual Check Valve NTS



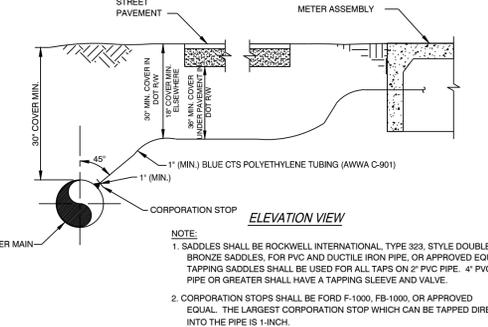
- A= FORD LOCKABLE CURB STOP OR APPROVED EQUAL
METER DIAMETER CURB STOP
1-1/2" No. BF13-676 W
2" No. BF13-777 W
* W ON CATALOG NUMBER IS FOR PADLOCK WINGS & SHOULD OPEN TO THE LEFT.
B= FKAA APPROVED DUAL CHECK VALVE: MUELLER No. H14242
C= SEALED REGISTER WATER METER No. B43-342 W
D= MID-STATES PLASTICS MODEL #MBCF1730-12 OR APPROVED EQUAL
E= 2" POLYETHYLENE TUBING (AWWA C-901)
G= CUSTOMER TIE-IN POINT
F= CUSTOMER FURNISHED PIPING/TUBING

7 1.5" & 2" Meter w/ Dual Check Valve NTS



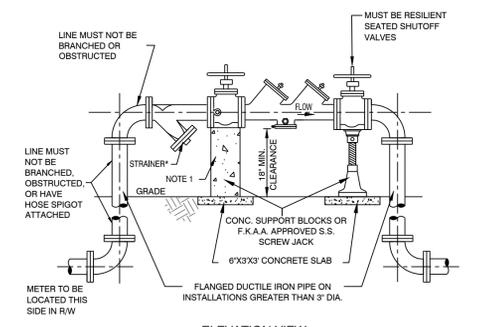
- NOTES:
1. REBAR AS SHOWN ARE MINIMUM REQUIRED. VAULT TO BE DESIGNED BY PRECASTER.
2. MINIMUM DISTANCES BETWEEN METER INLETS/OUTLETS AND THE CLOSEST FITTINGS SHALL BE MAINTAINED PER METER MANUFACTURER'S REQUIREMENTS.

8 3", 4", & 6" Meter Assembly NTS



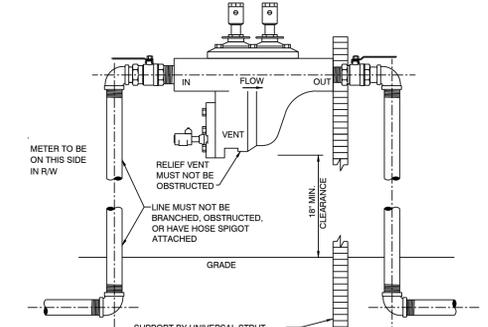
- NOTE:
1. SADDLES SHALL BE ROCKWELL INTERNATIONAL, TYPE 323, STYLE DOUBLE STRAP BRONZE SADDLES, FOR PVC AND DUCTILE IRON PIPE, OR APPROVED EQUAL. TAPPING SADDLES SHALL BE USED FOR ALL TAPS ON 2" PVC PIPE. 4" PVC PIPE OR GREATER SHALL HAVE A TAPPING SLEEVE AND VALVE.
2. CORPORATION STOPS SHALL BE FORD F-1000, FB-1000, OR APPROVED EQUAL. THE LARGEST CORPORATION STOP WHICH CAN BE TAPPED DIRECTLY INTO THE PIPE IS 1-INCH.

9 Service Connection Detail NTS



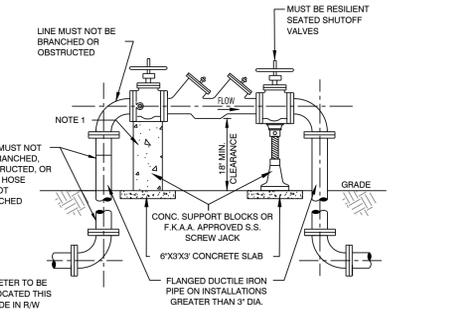
- NOTES:
1. CONCRETE SUPPORT BLOCKS AND "Y" TYPE STRAINER (WITH STANDARD PERFORATED SCREEN) ON 2 1/2" AND LARGER BACKFLOW PREVENTERS.
2. THE ASSEMBLY MUST BE INSTALLED WITH MINIMUM HORIZONTAL CLEARANCES OF 30" FOR THE SIDE WITH TEST COCKS AND 6" FOR THE BACK SIDE.
3. ACCEPTABLE ASSEMBLIES ARE THOSE THAT ARE APPROVED BY EITHER ASSE OR FCCCHR AND MEET THE MINIMUM DESIGN STANDARDS OF THE AWWA.
* NO STRAINER REQUIRED ON FIRE LINES.

10 2 1/2" to 10" Backflow Preventer NTS



- NOTES:
1. THE ASSEMBLY MUST BE INSTALLED ON THE CUSTOMER'S PROPERTY, AS CLOSE TO THE METER AS PRACTICAL.
2. THE ASSEMBLY MUST BE ACCESSIBLE FOR TESTING ANNUALLY, AND FOR OVERHAUL EVERY FIVE YEARS.
3. ACCEPTABLE ASSEMBLIES ARE THOSE THAT ARE APPROVED BY EITHER ASSE OR FCCCHR AND MEET THE MINIMUM DESIGN STANDARDS OF THE AWWA.

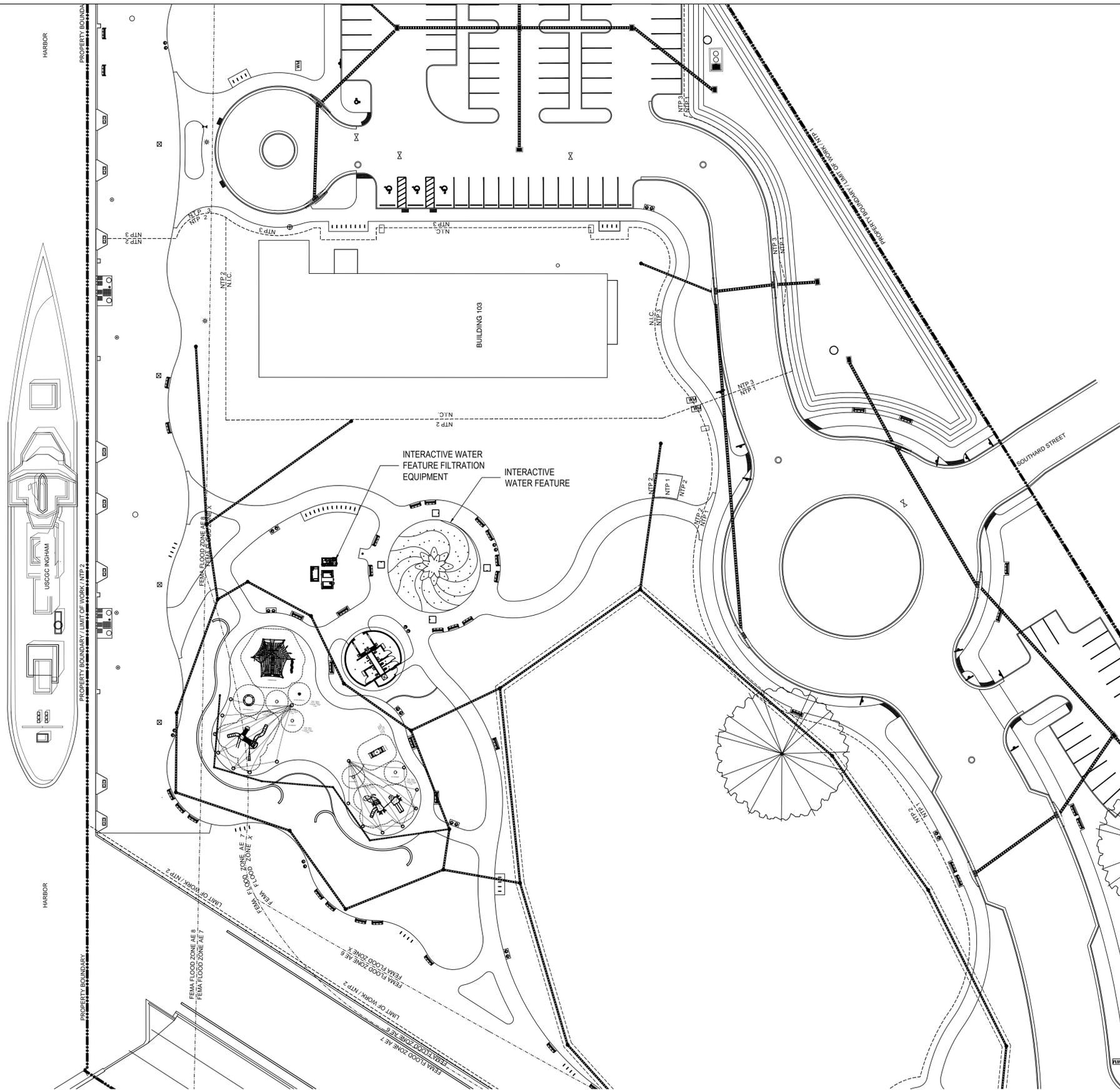
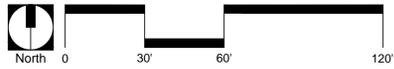
11 3" to 2" Backflow Preventer NTS



- NOTES:
1. CONCRETE SUPPORT BLOCKS REQUIRED ON 2 1/2" AND LARGER DOUBLE CHECK VALVES.
2. THE DEVICE MUST BE INSTALLED WITH MINIMUM HORIZONTAL CLEARANCES OF 30" FOR THE SIDE WITH TEST COCKS AND 6" FOR BACK SIDE.
3. ASSEMBLY IS NOT COMPLETE UNLESS ALL TEST COCKS ARE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
4. ACCEPTABLE ASSEMBLIES ARE THOSE THAT ARE APPROVED BY EITHER ASSE OR FCCCHR AND MEET THE MINIMUM DESIGN STANDARDS OF THE AWWA.

12 3" to 10" RPDA Installation NTS

ENVIRONMENTAL LAND USE CONTROLS NOTE: PRIOR TO ANY AND ALL CONSTRUCTION ACTIVITIES, THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING IF LOCATION OF CONSTRUCTION ACTIVITIES ARE SUBJECT TO ENVIRONMENTAL LAND USE CONTROLS (LUC). ANY AND ALL ENCOUNTERED CONTAMINATED SOIL AND OR GROUNDWATER SHALL BE HANDLED PER THE "SOIL AND GROUND WATER MANAGEMENT PLAN", DATED FEBRUARY 13, 2015 INCLUDED IN THE PROJECT MANUAL. CONTRACTOR SHALL VERIFY THAT LUC CONSTRUCTION PERMIT HAS BEEN FILED AND APPROVED FOR THIS WORK.



CONTAMINATED SOIL AND GROUNDWATER NOTE:
 PRIOR TO ANY AND ALL CONSTRUCTION ACTIVITIES, THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING IF LOCATION OF CONSTRUCTION ACTIVITIES ARE DESIGNATED AS CONTAMINATED AND SHALL HANDLING ANY AND ALL ENCOUNTERED CONTAMINATED SOIL AND OR GROUNDWATER PER THE SOIL AND GROUND WATER MANAGEMENT PLAN, DATED FEBRUARY 13, 2015 AND INCLUDED IN THE PROJECT MANUAL.

SITE LOCATION
 SCALE: 1/32" = 1'-0"

BUILDING OFFICIAL NOTE:
 THESE DRAWINGS COVER DESIGN / SPECIFICATIONS / NOTES REGARDING CONSTRUCTION OF INTERACTIVE WATER FEATURE ONLY. ALL OTHER INFORMATION IS SHOWN FOR REFERENCE PURPOSES UNLESS SPECIFIED OTHERWISE.



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PREPARED FOR OWNER:
CITY OF KEY WEST, FL
 P. O. BOX 1409
 3140 FLAGLER AVENUE
 KEY WEST, FL 33041



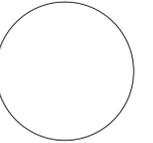
PROJECT NAME:
TRUMAN WATERFRONT PARK

PROJECT LOCATION/ADDRESS:
 TRUMAN WATERFRONT PARK
 WEST OF FORT STREET AND THE
 TRUMAN ANNEX DEVELOPMENT,
 NORTH OF KEY WEST NAVAL BASE

SUB-CONSULTANT INFORMATION:



PROFESSIONAL SEAL:



NAME OF PROFESSIONAL:
 FLORIDA REGISTERED DISCIPLINE:
 LICENSE No.:

SUBMITTAL DESCRIPTION / MILESTONE:

BIDDING
AUGUST 30, 2015

REVISIONS:

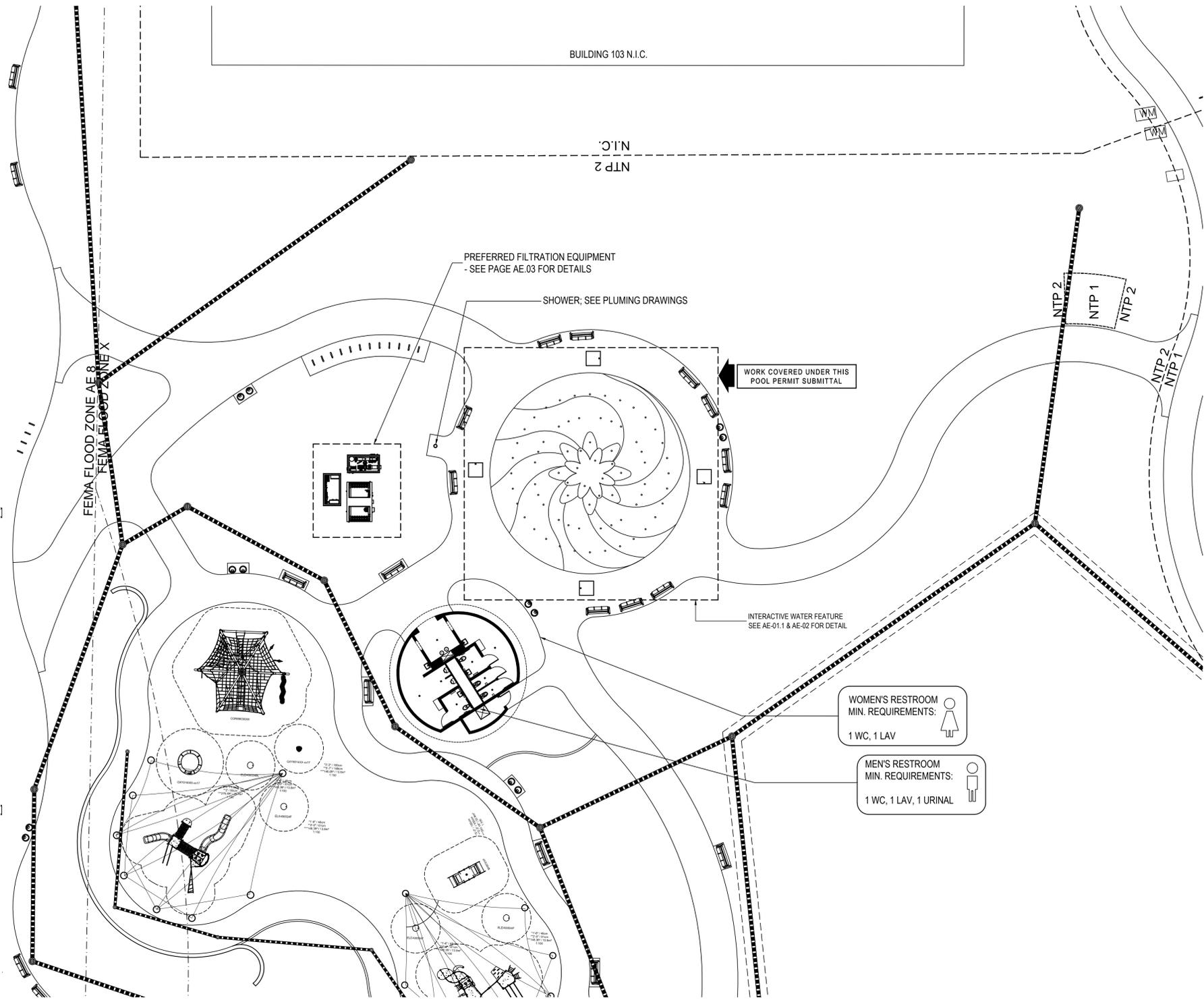
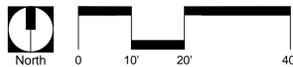
DRAWING SHEET INFORMATION

BA PROJECT NO.: 14041
 SCALE: AS SHOWN
 DATE: JULY 13, 2015
 DRAWN BY: A.J.C.
 CHECKED BY:

DRAWING TITLE:
INTERACTIVE WATER FEATURE

SHEET NO.

AE.00



INTERACTIVE WATER FEATURE LOCATION PLAN
SCALE: 1/16" = 1'-0"

CONTAMINATED SOIL AND GROUNDWATER NOTE:
PRIOR TO ANY AND ALL CONSTRUCTION ACTIVITIES, THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING IF LOCATION OF CONSTRUCTION ACTIVITIES ARE DESIGNATED AS CONTAMINATED AND SHALL HANDLING ANY AND ALL ENCOUNTERED CONTAMINATED SOIL AND OR GROUNDWATER PER THE SOIL AND GROUND WATER MANAGEMENT PLAN, DATED FEBRUARY 13, 2015 AND INCLUDED IN THE PROJECT MANUAL

NOTE TO CONTRACTOR:
POOL PERMIT AND PERMITTING PROCESS SHALL BE THE CONTRACTOR'S RESPONSIBILITY, SHALL BE INCLUDED AT THE BASE BID AND BE PROVIDED AT NO ADDITIONAL COST TO THE CITY.

BUILDING OFFICIAL NOTE:
THESE DRAWINGS COVER DESIGN / SPECIFICATIONS / NOTES REGARDING CONSTRUCTION OF INTERACTIVE WATER FEATURE ONLY. ALL OTHER INFORMATION IS SHOWN FOR REFERENCE PURPOSES UNLESS SPECIFIED OTHERWISE.

STRUCTURAL NOTES:

- 1.- GENERAL:
 - 1.1- ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THE FLORIDA BUILDING CODE 2010, ASCE/SEI 7-05 MINIMUM DESIGN LOADS FOR BUILDINGS, THE ACI 318-05 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, AND ALL APPLICABLE FEDERAL, STATE AND LOCAL ORDINANCES.
 - 1.2- THESE DRAWINGS AND SPECIFICATIONS COMPLY, TO THE BEST OF MY KNOWLEDGE WITH THE APPLICABLE MINIMUM BUILDING CODE.
 - 1.3- THE CONTRACTOR SHALL VERIFY ALL CONDITIONS OF EXISTING STRUCTURES AFFECTING NEW CONSTRUCTION BEFORE COMMENCING ANY WORK ANY VARIATIONS IN ACTUAL FIELD CONDITIONS/DIMENSIONS FROM THOSE SHOWN IN THE CONTRACT DRAWINGS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR DETERMINING THE NEED OF REDESIGN PRIOR TO CONTRACTOR'S SUBMITTAL OF SHOP WORKING DRAWINGS FOR REVIEW.
 - 1.04- THESE DRAWINGS SHALL BE WORKED TOGETHER WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS TO LOCATE DEPRESSED SLABS, SLOPES, DRAINS, OUTLETS, RECESSES, OPENINGS, REGLETS, BOLT SETTINGS, SLEEVES, ETC. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
 - 1.05- WHEN PERFORMING WORK BELOW GRADE, CARE SHALL BE TAKEN TO AVOID DAMAGING ANY EXISTING UTILITIES. ALL UNKNOWN UTILITIES DISCOVERED DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. ANY DAMAGE TO THE EXISTING UTILITIES SHALL BE REPORTED TO ALL AFFECTED PARTIES, INCLUDING THE ARCHITECT/ENGINEER.
 - 1.06- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR UPDATING HIS CONSTRUCTION DOCUMENTS WITH THE REVISED DRAWINGS AND SPECIFICATIONS, FIELD ORDERS, CHANGE ORDERS AND CLARIFICATIONS SKETCHES ISSUED DURING THE COURSE OF CONSTRUCTION.
 - 1.07- TYPICAL DETAILS AND NOTES ON THESE DRAWINGS SHALL APPLY UNLESS SPECIFICALLY NOTED. CONSTRUCTION DETAILS AND SECTIONS NOT COMPLETELY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS AND SECTIONS SHOWN OR NOTED FOR SIMILAR CONDITIONS.
 - 1.08- THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT.
 - 1.09- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL ACCUMULATED WATER FROM EXCAVATIONS AND DEWATERING OPERATIONS IN SUCH A WAY AS TO NOT CAUSE INCONVENIENCE TO THE WORK AND DAMAGE TO THE STRUCTURAL ELEMENTS.
 - 1.10- SHOP DRAWINGS ARE AN AID FOR FIELD PLACEMENT AND ARE SUPERSEDED BY THE STRUCTURAL DRAWINGS. IT SHALL BE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO MAKE CERTAIN THAT ALL CONSTRUCTION IS IN FULL AGREEMENT WITH THE LATEST STRUCTURAL DRAWINGS.
 - 1.11- THE CONTRACTOR SHALL SUPPLY THE ENGINEER THREE COPIES OF SHOP DRAWINGS A MINIMUM OF ONE WEEK PRIOR TO PLACEMENT. THE REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS ONLY FOR GENERAL COMPLIANCE WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS. THE REVIEW DOES NOT GUARANTEE IN ANY WAY THAT THE SHOP DRAWINGS ARE CORRECT NOR DOES IT INFER THAT THEY SUPERSEDE THE STRUCTURAL DRAWINGS.
 - 1.12- SUBMITTALS TO STRUCTURAL ENGINEER:
 - I. CONCRETE TEST REPORT FOR CAST-IN-PLACE CONCRETE AS PER ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
 - II. REINFORCING STEEL SHOP DRAWINGS IF APPLICABLE.
- 2.- **POURED IN PLACE CONCRETE / PNEUMATICALLY APPLIED CONCRETE**
 - 2.01- ALL CONCRETE WORK SHALL CONFORM ALL REQUIREMENTS OF ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
 - 2.02- CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 3500 PSI.
 - 2.03- FORM WORK SHALL COMPLY WITH ACI 347-88 "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK".
 - 2.04- MIX DESIGNS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF ANY CONCRETE WORK.
 - 2.05- NO WATER SHALL BE ADDED TO THE CONCRETE AT THE JOB SITE.
 - 2.06- THE BUILDER SHALL CONTRACT AN INDEPENDENT TESTING LABORATORY TO PERFORM CONCRETE CYLINDER TESTS AS FOLLOWS: FOUR CYLINDER TEST FOR ANY 50 CUBIC YARDS OF CONCRETE POURED, OR THREE CYLINDER TESTS PER ANY DAY, FOUR LESS THAN 50 CUBIC YARDS. ONE CYLINDER SHALL BE TESTED AT 7 DAYS, TWO AT 28 DAYS.
 - 2.07- TRANSPORTING, PLACING, CURING AND DEPOSITING OF CONCRETE SHALL COMPLY WITH ACI 301.
 - 2.08- ALL PNEUMATICALLY PLACED CONCRETE SHALL CONFORM TO APPLICABLE REQUIREMENTS OF ACI 506.2 SPECIFICATIONS FOR SHOTCRETE
 - 2.09- ALL PNEUMATICALLY PLACED CONCRETE SHALL COMPLY WITH FBC 2010, CHAPTER 19, SECTIONS 1913 & 1929
 - 2.10- THE BUILDER SHALL CONTRACT AN INDEPENDENT TESTING LABORATORY TO PERFORM PNEUMATICALLY PLACE CONCRETE COMPRESSIVE STRENGTH TEST IN ACCORDANCE WITH APPLICABLE SECTIONS ACI & FBC 2010
- 3.- **REINFORCING STEEL:**
 - 3.01- REINFORCING STEEL SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI 318.05.
 - 3.02- REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615/A615M-09b.
 - 3.03- ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185-02.
 - 3.04- REINFORCING SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES DURING PLACING OF CONCRETE.
 - 3.05- ALL TOP REINFORCING SHALL TERMINATE WITH STANDARD HOOKS AT DISCONTINUOUS EDGES OR ENDS.
 - 3.06- ALL BOTTOM BARS SHALL BEAR 6" MINIMUM OVER SUPPORTS, U.O.N.
 - 3.07- ALL REINFORCING BARS MARKED CONTINUOUS SHALL BE LAPPED 36 DIA. AT SPLICES AND CORNERS UNLESS OTHERWISE NOTED. LAP CONTINUOUS TOP BARS AT CENTER BETWEEN SUPPORTS AS REQUIRED. TERMINATE CONTINUOUS BARS AT NON-CONTINUOUS ENDS WITH STANDARD HOOKS, U.O.N.
 - 3.08- MINIMUM CONCRETE COVER FOR REINFORCEMENT:
 - I. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
 - II. CONCRETE EXPOSED TO EARTH OR WEATHER
 - #6 BARS AND LARGER: 2"
 - #5 BARS AND SMALLER: 1.5"
 - III. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH:
 - SLABS AND WALLS: 1.5"
 - BEAMS AND COLUMNS: 1.5"
- 4.- **GENERAL REQUIREMENTS/ NOTES:**
 - INTERACTIVE WATER FEATURE SHALL BE CONSTRUCTED OF CONCRETE WITH SLIP RESISTANT SURFACE FINISH
 - THE MAXIMUM VELOCITY THROUGH THE MAIN DRAIN GRATE DOES NOT EXCEED 1.5 F.P.S.

GENERAL NOTES:

1. STORAGE OF CHEMICALS SHALL BE LOCATED IN AN ENCLOSED LOCKABLE AREA TO PREVENT UNAUTHORIZED ACCESS.
 2. ALL INTERACTIVE WATER FEATURE SURFACES SHALL HAVE A SMOOTH LIKE SLIP RESISTANT FINISH.
 3. ALL ELECTRICAL WORK SHALL BE DONE BY QUALIFIED LICENSED CONTRACTORS AND IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE 2008.
 4. ELECTRICAL EQUIPMENT WIRING AND INSTALLATION INCLUDING THE GROUNDING OF INTERACTIVE WATER FEATURE COMPONENTS TO CONFORM WITH THE NATIONAL FIRE PROTECTION ASSOCIATION 70, NATIONAL ELECTRICAL CODE (NEC), 2008 AND WITH APPLICABLE LOCAL CODES.
 5. ALL INTERACTIVE WATER FEATURE PIPING SHALL BE PVC PW SCHEDULE 40 NON-THREADED NSF APPROVED. ALL PIPE SHALL DISPLAY THE NSF-PW LOGO.
 6. INTERACTIVE WATER FEATURE RESTROOM FACILITIES SHALL BE LOCATED WITHIN A 200 FOOT WALKING DISTANCE OF THE INTERACTIVE WATER FEATURE.
- RESTROOM FACILITIES REQUIREMENTS:**
7. THE FLOORS SHALL BE CONSTRUCTED OF CONCRETE OR OTHER NONABSORBENT MATERIALS AND SHALL HAVE A SMOOTH SLIP RESISTANT FINISH AND THE FLOORS SHALL SLOPE TO A FLOOR DRAIN AT LEAST 3 INCHES IN DIAMETER.
 8. EACH SEX SHALL BE LABELED ON THEIR RESPECTIVE DOORS.
 9. DIRECT ACCESS FROM THE INTERACTIVE WATER FEATURE OR THE SPA DECK TO THE RESTROOM FACILITIES IS REQUIRED.
 10. WALLS IN RESTROOM FACILITIES SHALL BE COVERED.
 11. ONE DIAPER CHANGING TABLE SHALL BE PROVIDED AT EACH RESTROOM
- | | MEN'S RESTROOM | | | WOMEN'S RESTROOM | | |
|----------|----------------|----|----------|------------------|----------|---|
| | URINALS | WC | LAVATORY | WC | LAVATORY | |
| REQUIRED | 1 | 1 | 1 | 1 | 1 | 1 |
| PROVIDED | 2 | 1 | 2 | 3 | 2 | 2 |
- INTERACTIVE WATER FEATURE AREA REQUIREMENTS:**
12. ALL DECKS SHALL SLOPE AWAY FROM THE INTERACTIVE WATER FEATURE 2%.
 13. ALL DECK SURFACES SHALL HAVE A SMOOTH SLIP RESISTANT FINISH.
 14. 3/4" HOSE BIBBS W/ VACUUM BREAKERS SHALL BE LOCATED AROUND THE INTERACTIVE WATER FEATURE DECK FOR CLEANING.
 15. A RINSE SHOWER SHALL BE LOCATED WITHIN 20 FEET OF THE INTERACTIVE WATER FEATURE.
 16. ALL WALKWAYS BETWEEN THE INTERACTIVE WATER FEATURE AND SANITARY FACILITIES SHALL BE CONSTRUCTED OF CONCRETE OR OTHER NON-ABSORBENT MATERIAL FOR THE FIRST FIFTEEN FEET AND SHALL HAVE A SLIP RESISTANT SURFACE FINISH.
 17. IF SANITARY FACILITIES ARE NOT VISIBLE FROM THE DECK, A SIGN OR SIGNS INDICATING THE DIRECTION TO THE RESTROOMS SHALL BE POSTED ON THE INTERACTIVE WATER FEATURE DECK.
 18. IF NIGHT OPERATION IS PROPOSED: 6 FOOT CANDLES OF LIGHT SHALL BE PROVIDED ON THE INTERACTIVE WATER FEATURE WATER DRY DECK AND INTERACTIVE WATER FEATURE WET DECK SURFACE. LIGHTING THAT MAY BE EXPOSED TO THE FEATURE POOL WATER SHALL NOT EXCEED 15 VOLTS. SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND BE APPROVED FOR SUCH USE BY UL OR NSF.
 19. DISTRIBUTION OF FOOD OR DRINK WITHIN 12 FEET OF THE INTERACTIVE WATER FEATURE WATER'S EDGE IS PROHIBITED.
 20. NO OVERHEAD WIRING SHALL BE LOCATED WITHIN 10 FEET OF THE INTERACTIVE WATER FEATURE.
 21. MINIMUM DECK WIDTH SHALL NOT BE LESS THAN 4 FOOT WIDE.
 22. A SIGN SHALL BE POSTED IN THE INTERACTIVE WATER FEATURE AREA INDICATING THE DIRECTION TO THE INTERACTIVE WATER FEATURE RESTROOMS.
- A "INTERACTIVE WATER FEATURE CLOSED" SIGN MUST BE CONSPICUOUSLY PLACED NEAR THE ENTRANCE TO EACH BATHING UNIT. THIS SIGN SHALL BE PLACED EACH DAY, NO LATER THAN ONE HALF (1/2) HOUR BEFORE SUNSET AND SHALL NOT BE REMOVED EARLIER THAN ONE HALF (1/2) HOUR AFTER SUNRISE. THE LETTERING MUST BE A MINIMUM OF 4 INCHES HIGH, WITH CONTRASTING BACKGROUND COLOR OF THE SIGN, STATING: INTERACTIVE WATER FEATURE CLOSED.

COORDINATION NOTES:

THE INTERACTIVE WATER FEATURE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF THE FOLLOWING ISSUES WITH THE GENERAL CONTRACTOR:

- UNLESS THIS FACILITY IS APPROVED FOR NIGHT SWIMMING, THE OPERATOR SHALL POST A SIGN IN THE INTERACTIVE WATER FEATURE AREA AT DUSK OR EARLIER THAT "NIGHT SWIMMING IS PROHIBITED"
- 2% DECK SLOPE
- DRAINAGE OF DECK
- SHOWERS & HOSE BIBBS
- CITY WATER SUPPLY TO COLLECTOR TANKS WASTE WATER REMOVAL FROM EQUIPMENT ROOM
- SLIP RESISTANT RESTROOM TILE & FLOOR DRAIN

FAILURE TO COORDINATE THESE ISSUES CAN RESULT IN SIGNIFICANT DEPARTMENT OF HEALTH PENALTIES UPON COMPLETION OF THE PROJECT.

THIS INTERACTIVE WATER FEATURE HAS BEEN DESIGNED TO ALL APPLICABLE REQUIREMENTS OF THE FLORIDA BUILDING CODE, CHAPTER 4 SECTION 424.1 2010 EDITION.

PREPARED FOR OWNER:
CITY OF KEY WEST, FL
P. O. BOX 1409
3140 FLAGLER AVENUE
KEY WEST, FL 33041

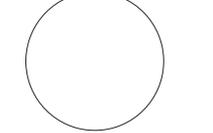


PROJECT NAME:
TRUMAN WATERFRONT PARK

PROJECT LOCATION/ADDRESS:
TRUMAN WATERFRONT PARK
WEST OF FORT STREET AND THE TRUMAN ANNEX DEVELOPMENT, NORTH OF KEY WEST NAVAL BASE

SUB-CONSULTANT INFORMATION:

PROFESSIONAL SEAL:



NAME OF PROFESSIONAL:
FLORIDA REGISTERED DISCIPLINE
LICENSE No.:
SUBMITTAL DESCRIPTION / MILESTONE:

BIDDING
AUGUST 30, 2015

REVISIONS:

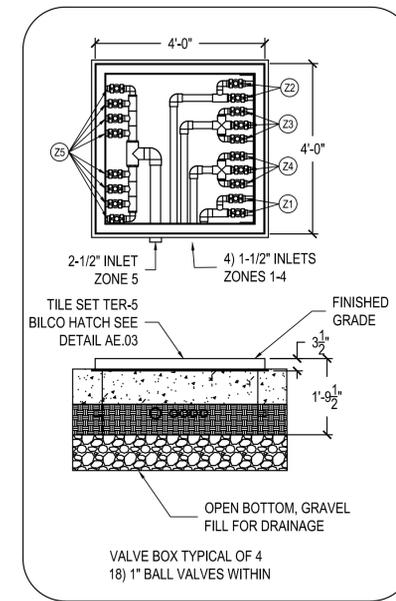
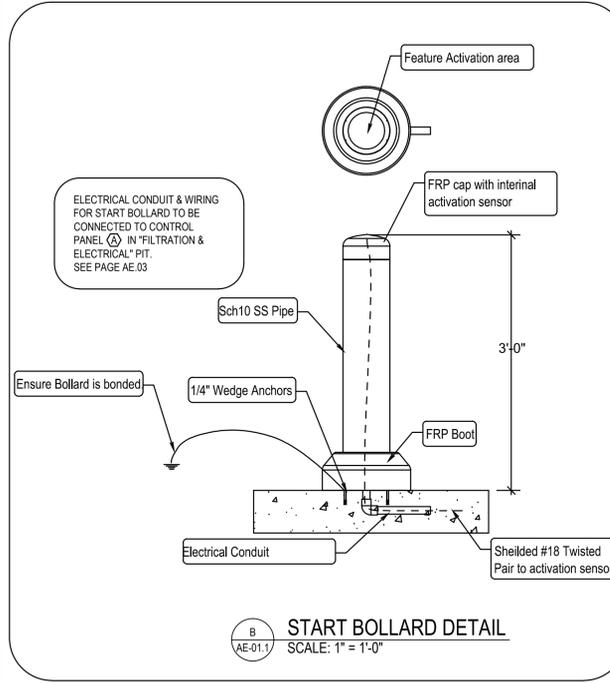
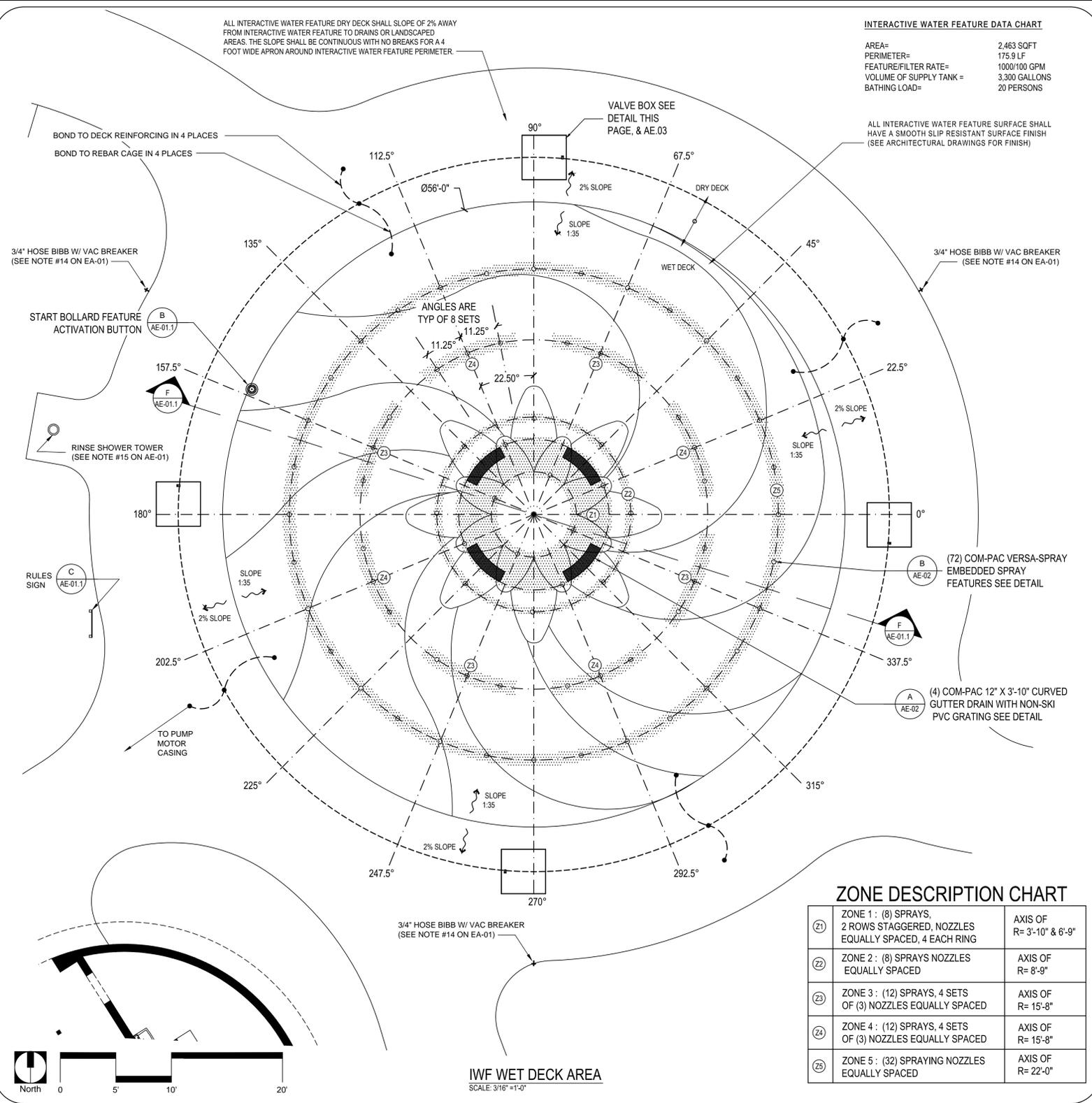
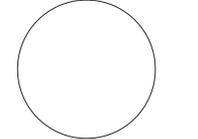
NO.	DESCRIPTION

DRAWING SHEET INFORMATION

BA PROJECT NO.: 14041
SCALE: AS SHOWN
DATE: JULY 13, 2015
DRAWN BY: A.J.C.
CHECKED BY:

DRAWING TITLE:
I.W.F. SITE PLAN AND CONSTRUCTION NOTES

SHEET NO.
AE.01



EQUIPOTENTIAL BONDING GRID
REFER TO NEC ARTICLE 680.26 (B)(1) THROUGH (B)(7)
EQUIPOTENTIAL BONDING GRID TO RUN CONTINUOUSLY AROUND THE CONTOUR OF POOL. EXTENDING 18" TO 24" FROM THE INSIDE WALLS OF THE POOL. THE 4" TO 6" BELOW GRADE GRID PATTERN SHALL BE SECURED WITHIN OR UNDER THE POOL DECK MEDIA. THE GRID SHALL BE CONSTRUCTED OF MINIMUM #8 AWG BARE OR SOLID COPPER CONDUCTORS.
EQUIPOTENTIAL BONDING CONDUCTOR SHALL COMPLY W/ FBC 2010 ALTERNATIVE & EQUIVALENT METHOD TO NEC 2008 ART 680.26

LEGEND

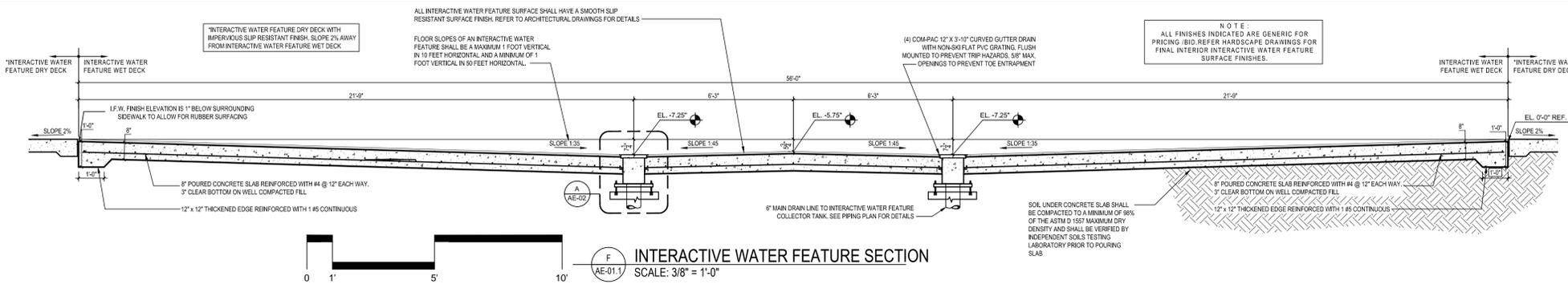
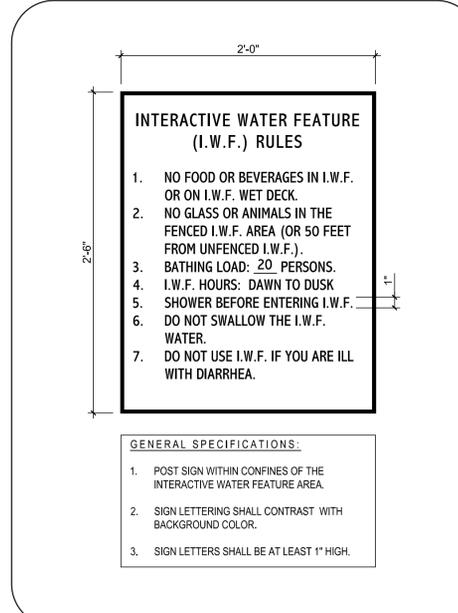
- 8 AWG SOLID COPPER BONDING CONDUCTOR
- EXOTHERMIC WELDING, PRESSURE CONNECTOR OR CLAMP

ALL METAL FEATURE CONNECTIONS W/ IWF SHALL BE BONDED TO EQUIPOTENTIAL BONDING GRID

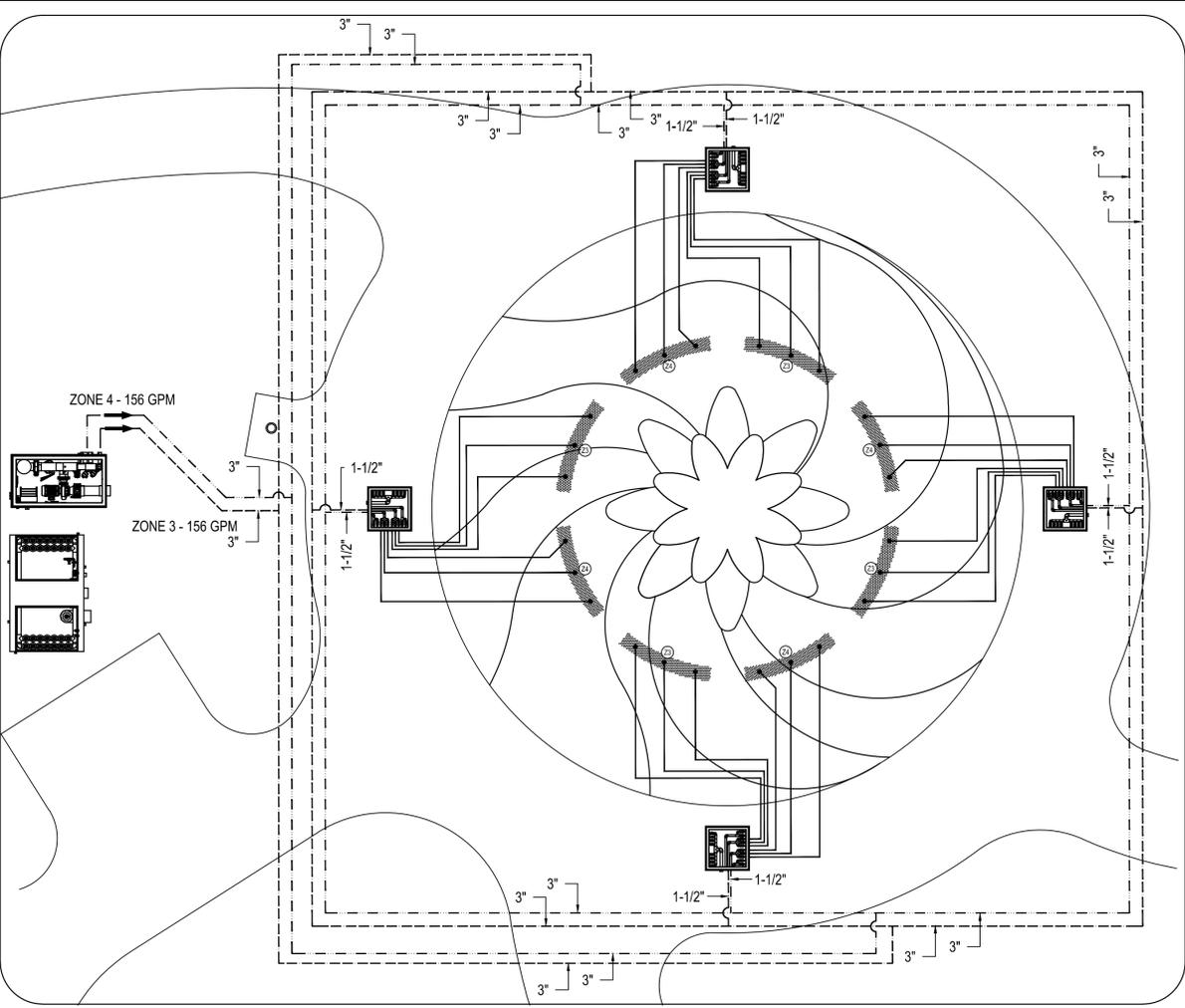
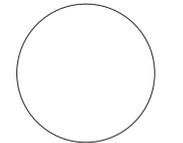
THE FLOW RATE THROUGH THE FEATURE NOZZLES OF THE WATER FEATURES SHALL BE SUCH AS NOT TO HARM THE PATRONS AND SHALL NOT EXCEED 20 FEET PER SECOND

AREA PLAN LEGEND

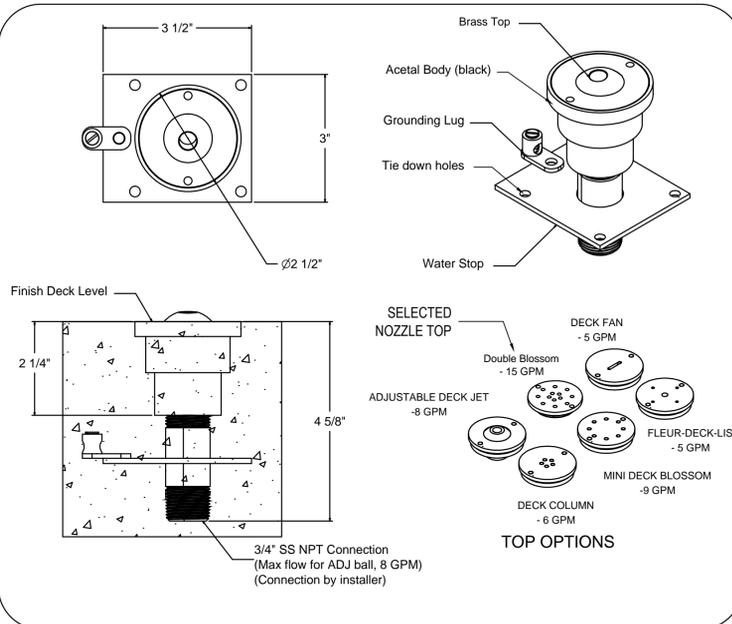
	HOSE BIBB W/ VACUUM BREAKER
	DIRECTIONAL DECK DRAINAGE ARROW
	SHOWER W/ HOSE BIBB & DECK DRAIN
	INTERACTIVE WATER FEATURE RULES SIGNAGE



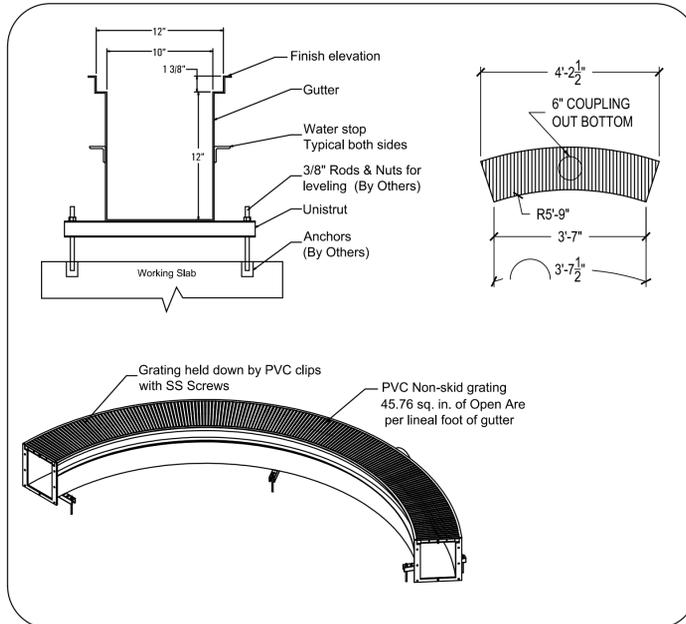
CONTAMINATED SOIL AND GROUNDWATER NOTE:
PRIOR TO ANY AND ALL CONSTRUCTION ACTIVITIES, THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING IF LOCATION OF CONSTRUCTION ACTIVITIES ARE DESIGNATED AS CONTAMINATED AND SHALL HANDLING ANY AND ALL ENCOUNTERED CONTAMINATED SOIL AND OR GROUNDWATER PER THE SOIL AND GROUNDWATER MANAGEMENT PLAN, DATED FEBRUARY 13, 2015 AND INCLUDED IN THE PROJECT MANUAL



IWF PIPING LAYOUT - ZONES 3 & 4
SCALE: 1/8" = 1'-0"

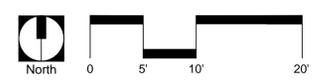


B DETAIL - COM-PAC VERSA SPRAY
SCALE: NTS



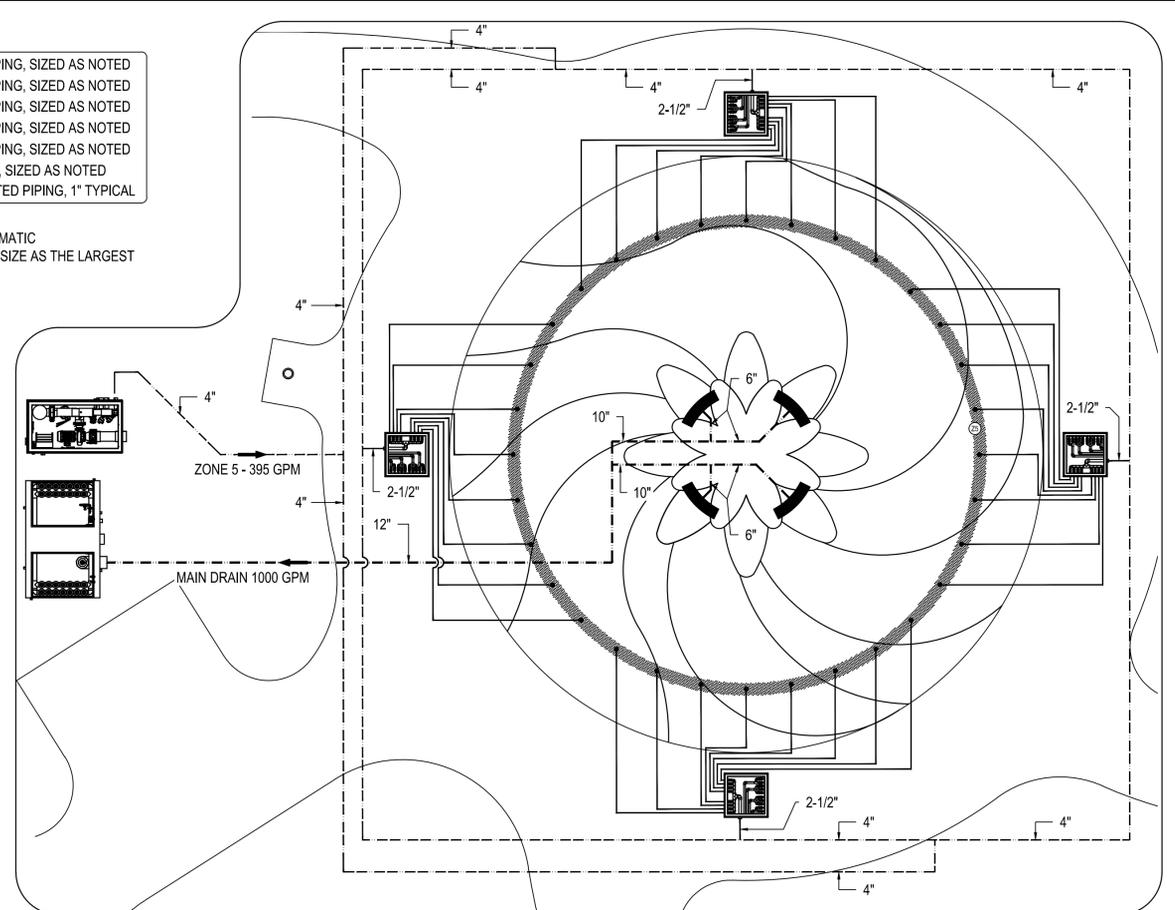
A DETAIL - TYPICAL DRAIN
SCALE: NTS

CONTAMINATED SOIL AND GROUNDWATER NOTE:
PRIOR TO ANY AND ALL CONSTRUCTION ACTIVITIES, THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING IF LOCATION OF CONSTRUCTION ACTIVITIES ARE DESIGNATED AS CONTAMINATED AND SHALL HANDLING ANY AND ALL ENCOUNTERED CONTAMINATED SOIL AND OR GROUNDWATER PER THE SOIL AND GROUND WATER MANAGEMENT PLAN, DATED FEBRUARY 13, 2015 AND INCLUDED IN THE PROJECT MANUAL

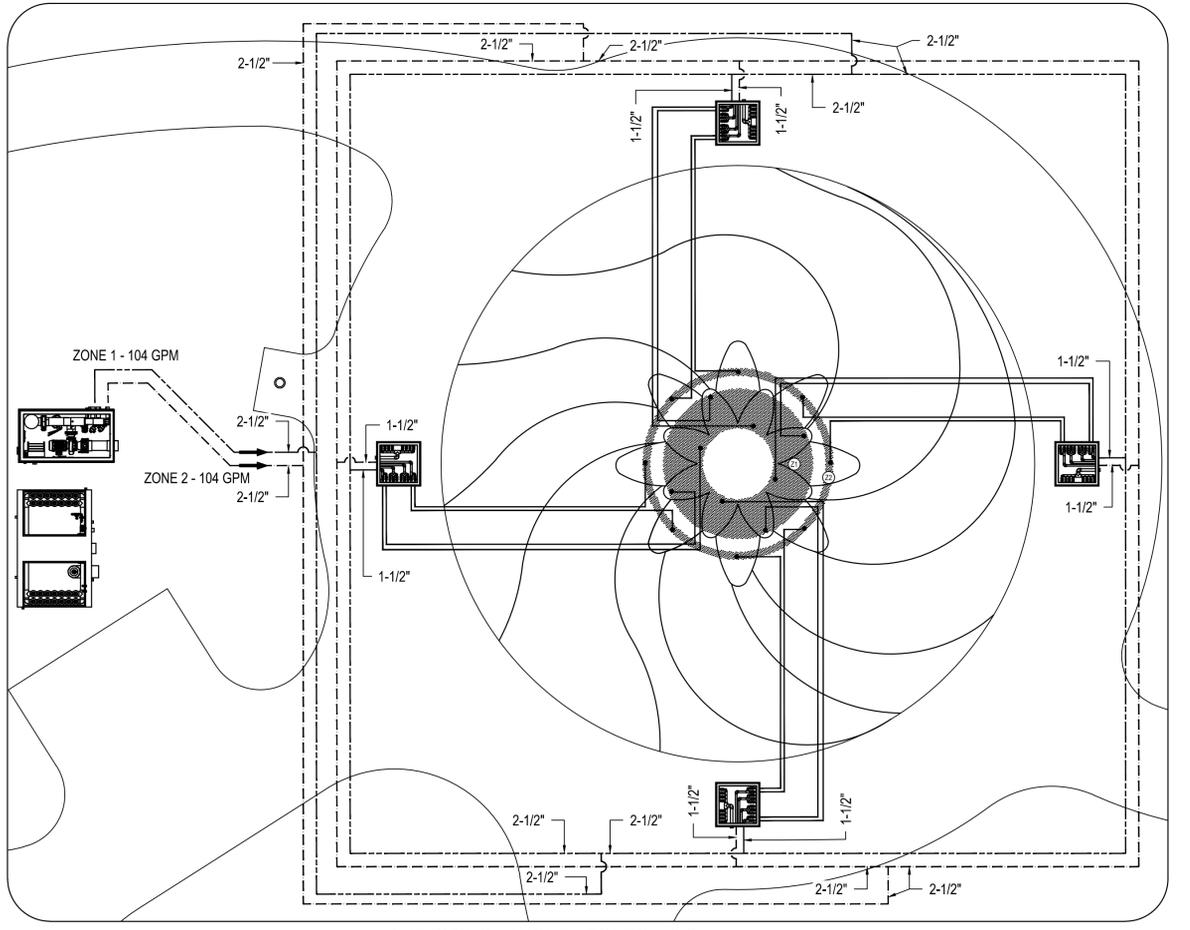


PIPING LEGEND
 - - - - - ZONE 1 SUPPLY PIPING, SIZED AS NOTED
 - - - - - ZONE 2 SUPPLY PIPING, SIZED AS NOTED
 - - - - - ZONE 3 SUPPLY PIPING, SIZED AS NOTED
 - - - - - ZONE 4 SUPPLY PIPING, SIZED AS NOTED
 - - - - - ZONE 5 SUPPLY PIPING, SIZED AS NOTED
 - - - - - MAIN DRAIN PIPING, SIZED AS NOTED
 - - - - - FEATURE CONNECTED PIPING, 1" TYPICAL

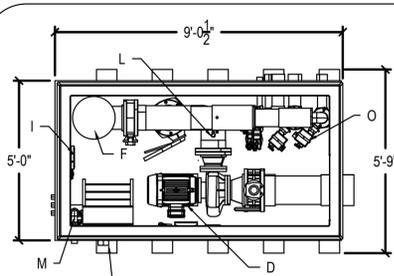
NOTES:
 - PIPING INDICATED IS DIAGRAMMATIC
 - ALL TEES SHALL BE THE SAME SIZE AS THE LARGEST PIPE CONNECTION



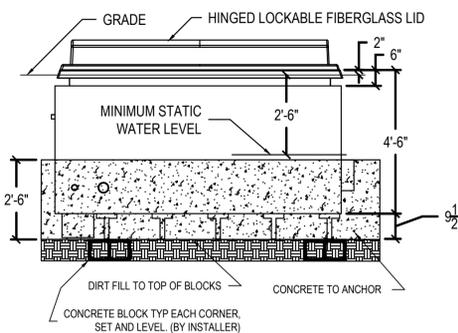
IWF PIPING LAYOUT - ZONE 5 & MAIN DRAIN
SCALE: 1/8" = 1'-0"



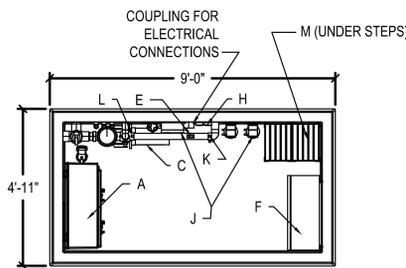
IWF PIPING LAYOUT - ZONES 1 & 2
SCALE: 1/8" = 1'-0"



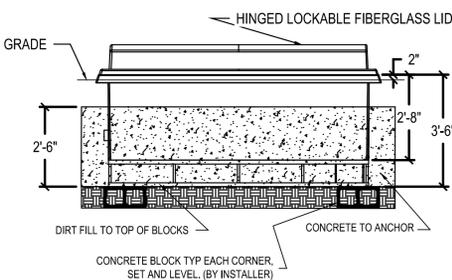
FEATURE PUMP PIT
SCALE: 3/8" = 1'-0"



ANCHOR & ELEVATION DETAIL
SCALE: 3/8" = 1'-0"

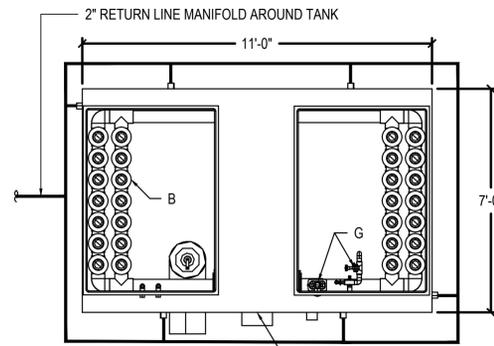


FILTRATION & ELECTRICAL PIT
SCALE: 3/8" = 1'-0"

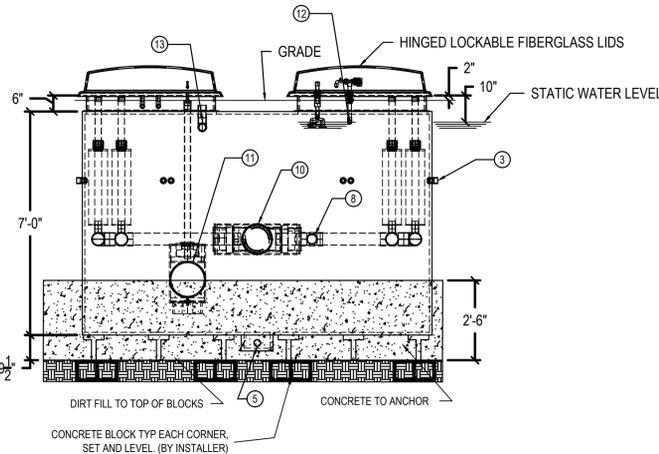


ANCHOR & ELEVATION DETAIL
SCALE: 3/8" = 1'-0"

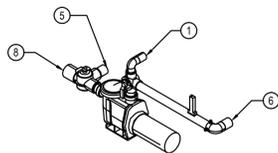
CONTAMINATED SOIL AND GROUNDWATER NOTE:
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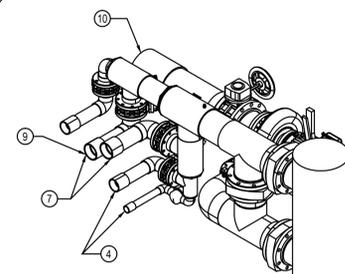
VC-434C FILTER TANK
SCALE: 3/8" = 1'-0"



ANCHOR & ELEVATION DETAIL
SCALE: 3/8" = 1'-0"



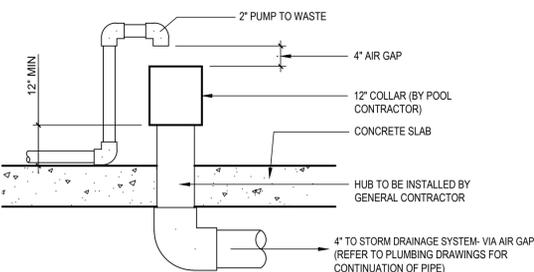
FILTRATION RECIRC ISOMETRIC
SCALE: NTS



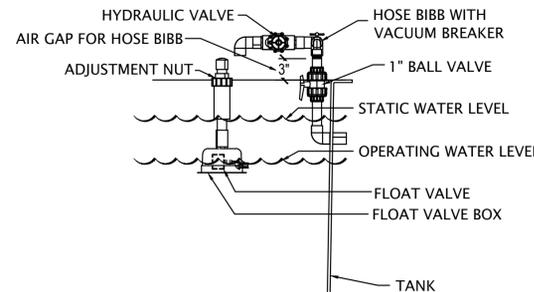
FEATURE ISOMETRIC
SCALE: NTS



SUMP PUMP ISOMETRIC
SCALE: NTS



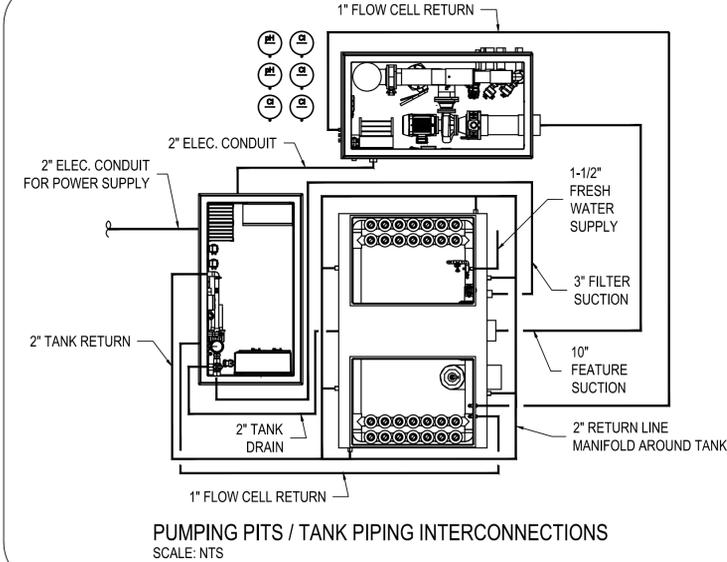
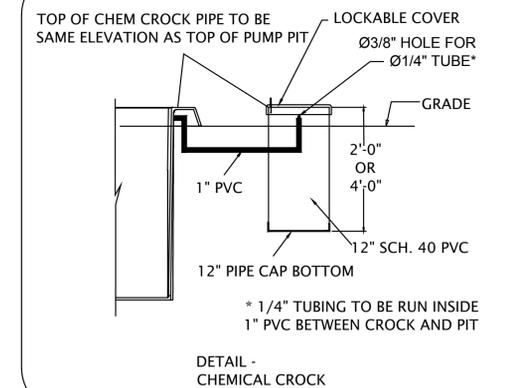
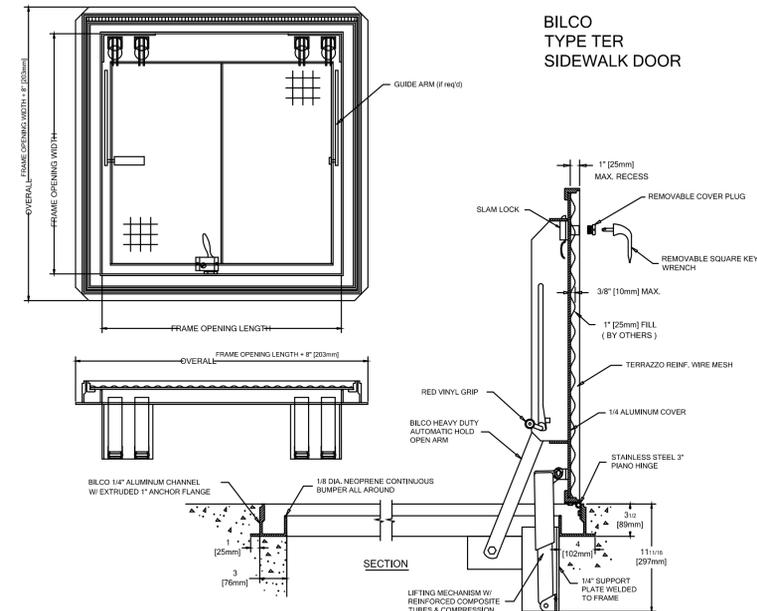
WASTE DETAIL
SCALE: NTS



INVERTED LEVEL CONTROL
SCALE: NTS

ID#	DESCRIPTION
A	ACCUPUMPS - UL LISTED MOTOR CONTROL PANEL WITH UL489 CIRCUIT BREAKER PROTECTION VFD MOTOR CONTROL, HOA SWITCH, COOLING MEASURES, NEMA 4X ENVIRONMENTAL RATING, COMPOSITE ENCLOSURE, AND TIME-CLOCK FEEDBACK AND SET POINT ADJUSTMENTS
B	28) 155SOFT 20 MICRON FILTER ELEMENTS #C-7697 4340 SQ FT OF FILTER AREA - MAX FILTER SPEED 0.253GPM/SQ.FT.
C	RECIRC / TANK DRAIN PUMP 2 H.P. WATERCO 2405200A-3 SELF PRIMING WITH INTEGRAL STRAINER BASKET 100GPM @ 50 TDH, 3000 GALLONS / 30 MINS
D	15 H.P. CPI C5060B FEATURE / RECIRC PUMP 3-0, 208/230 V 1000 GPM-360,000 GALLONS IN 6 HOURS @ 40 TDH EPOXY COATED WITH POLYESTER FINISHED PUMP. END SUCTION CENTRIFUGAL, BRONZE FITTED, HORIZONTAL MOUNTED, 3 PHASE TEFC HIGH EFFICIENCY CLASS F INSULATED MOTOR, WITH 5:1 TURNDOWN RATIO.
E	BLUE WHITE 2" FLOWMETER, F-30200P, 40 TO 150 GPM RANGE
F	ULTRAVIOLET SYSTEM DELTA UV - ELP 5143AM (NSF-50 CERTIFIED) 60mJ, 254 NANOMETERS
G	COM-PAC FILTRATION AUTOMATIC LEVEL CONTROL (INVERTED)
H	S.S. GLYCERINE FILLED, 2" FACE VACUUM GAUGE, 0-30 HG. S.S. GLYCERINE FILLED, 2" FACE PRESSURE GAUGE, 0-60 PSI
I	S.S. GLYCERINE FILLED, 2" FACE VACUUM GAUGE, 0-30 HG. S.S. GLYCERINE FILLED, 2" FACE PRESSURE GAUGE, 0-60 PSI
J	CHEMICAL FEED EQUIPMENT - - CAT2000 OROPH CONTROL - STENNER 45M-5 CL WITH 2) 26 GAL LOCKABLE CHEM CROCK, 2.5 TO 50 GAL./DAY - STENNER 45M-2 PH WITH 2) 26 GAL. LOCKABLE CHEM CROCK, 0.5 TO 10 GAL./DAY
K	CHEMICAL INJECTION POINT
L	2) CPI-SSPD, STAINLESS STEEL PRESSURE TRANSDUCERS WITH THICK FILM ON CERAMIC, 4-20 MA, 0-100 PSI
M	2) 1/3RD HP S.S. INTERNAL COOLED EBARA SUMP PUMP
N	COM PAC MODEL VC-434C FILTRATION TANK, 3300 GALLON CAPACITY
O	FEATURE VALVES 1) 4" ELECTRONICALLY ACTUATED BUTTERFLY VALVE 2) 2-1/2" ELECTRONICALLY ACTUATED BUTTERFLY VALVE 2) 3" ELECTRONICALLY ACTUATED BUTTERFLY VALVE
P	COM-PAC START BOLLARD

ID#	CALLOUT DESCRIPTION	PIPE SIZE
1	PUMP TO WASTE	1-1/2"
2	SUMP TO WASTE	1-1/2"
3	6) 1-1/2" RETURNS (IN FILTER TANK)	1-1/2"
4	VERSA SPRAY FEATURE RETURN LINE (ZONE 1 & 2)	(2) 2-1/2"
5	TANK DRAIN - TO WASTE	2"
6	RETURN LINE TO FILTER TANK RETURN FITTINGS (100 GPM)	2"
7	VERSA SPRAY FEATURE RETURN LINES (ZONES 3 & 4)	(2) 3"
8	RECIRC FILTER PUMP SUCTION LINE (100 GPM @ 6 FPS)	3"
9	VERSA SPRAY FEATURE RETURN LINES (ZONES 5)	4"
10	IWF FILTER / FEATURE PUMP SUCTION LINE (1000 GPM @ 6 FPS)	10"
11	MAIN DRAIN LINE TO IWF FILTER TANK (1000 GPM)	12"
12	MAKE UP WATER LINE (FRESH WATER), REFER TO PLUMBING DRAWINGS FOR CONTINUATION OF PIPE	1"
13	OVERFLOW	2"



PREPARED FOR OWNER:
CITY OF KEY WEST, FL
P. O. BOX 1409
3140 FLAGLER AVENUE
KEY WEST, FL 33041

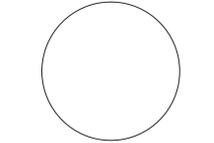


PROJECT NAME:
TRUMAN WATERFRONT PARK
PROJECT LOCATION/ADDRESS:
TRUMAN WATERFRONT PARK
WEST OF FORT STREET AND THE
TRUMAN ANNEX DEVELOPMENT,
NORTH OF KEY WEST NAVAL BASE

SUB-CONSULTANT INFORMATION:



PROFESSIONAL SEAL:



NAME OF PROFESSIONAL
FLORIDA REGISTERED DISCIPLINE
LICENSE No.:
SUBMITTAL DESCRIPTION / MILESTONE:

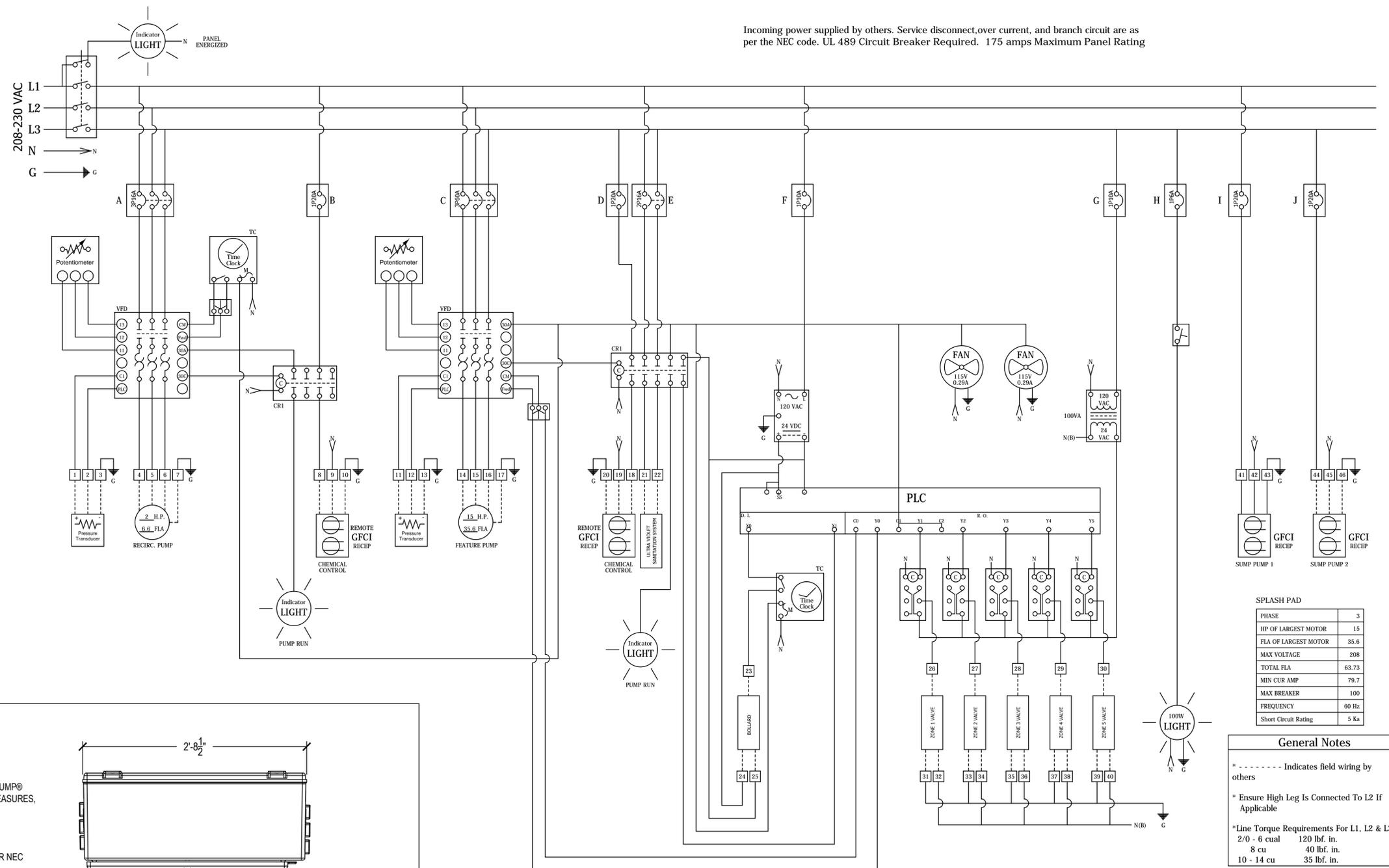
BIDDING
AUGUST 30, 2015

REVISIONS:

NO.	DESCRIPTION

DRAWING SHEET INFORMATION
BA PROJECT NO.: 14041
SCALE: AS SHOWN
DATE: JULY 13, 2015
DRAWN BY: A.J.C.
CHECKED BY:

DRAWING TITLE:
FILTRATION & FEATURE DETAILS
SHEET NO.



Incoming power supplied by others. Service disconnect, over current, and branch circuit are as per the NEC code. UL 489 Circuit Breaker Required. 175 amps Maximum Panel Rating

PREPARED FOR OWNER:
 CITY OF KEY WEST, FL
 P. O. BOX 1409
 3140 FLAGLER AVENUE
 KEY WEST, FL 33041



PROJECT NAME:
TRUMAN WATERFRONT PARK
 PROJECT LOCATION/ADDRESS:
 TRUMAN WATERFRONT PARK
 WEST OF FORT STREET AND THE
 TRUMAN ANNEX DEVELOPMENT,
 NORTH OF KEY WEST NAVAL BASE

SUB-CONSULTANT INFORMATION:



SPLASH PAD

PHASE	3
HP OF LARGEST MOTOR	15
FLA OF LARGEST MOTOR	35.6
MAX VOLTAGE	208
TOTAL FLA	63.73
MIN CUR AMP	79.7
MAX BREAKER	100
FREQUENCY	60 Hz
Short Circuit Rating	5 ka

General Notes

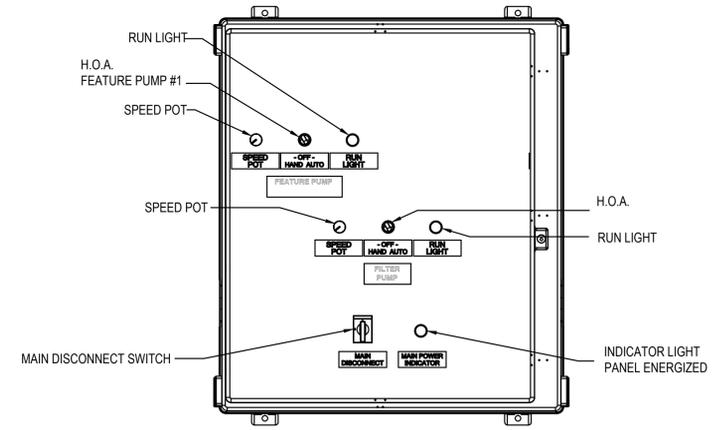
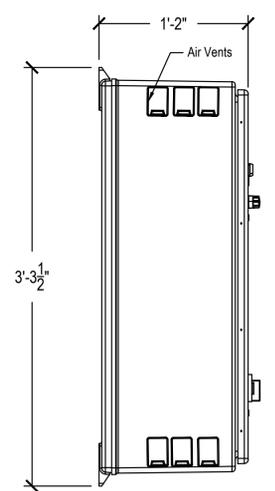
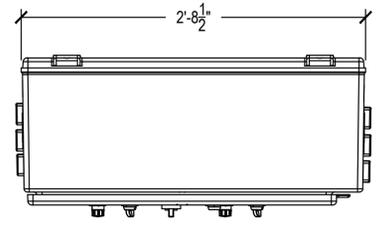
* - - - - - Indicates field wiring by others

* Ensure High Leg Is Connected To L2 If Applicable

* Line Torque Requirements For L1, L2 & L3:
 2/0 - 6 cu in. 120 lbf. in.
 8 cu in. 40 lbf. in.
 10 - 14 cu in. 35 lbf. in.

- UL LISTED CPI CUSTOM AQUATICS CONTROL PANEL WITH 489 CIRCUIT BREAKER PROTECTION, ACCUPUMP® VFD MOTOR CONTROL, HOA SWITCH, COOLING MEASURES, NEMA 4X ENVIRONMENTAL RATING, COMPOSITE ENCLOSURE, TIME-CLOCK, FEEDBACK, AND SET POINT ADJUSTMENTS.

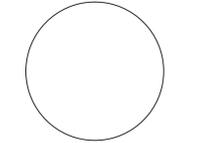
- 3'-0" CLEAR SPACE REQUIRED INFRONT OF PANEL PER NEC



COM-PAC AQUATICS CONTROL PANEL
 SCALE: 1-1/2" = 1'-0"

ELECTRICAL PANEL LOAD SUMMARY										
TRUMAN WATERFRONT PARK IWF										
EQUIPMENT	DESCRIPTION	QTY.	HP	Phase	AMP	UL 489 Breaker	Voltage	KVA	Terminal Connection	
IWF- RECIRCULATION PUMP	2 HP, 3 PHASE, 208 VOLT	1	2	3	6.6	3P16A	208	2.38	4,5,6,7	
IWF- PRESSURE TRANSDUCER - RECIRC PUMP	CPI-SSPD, STAINLESS STEEL PRESSURE TRANSDUCER WITH THICK FIL ON CERAMIC, 4-20 mA, 0-100 PSI	1		1	0		0	0.00	1,2,3	
IWF- CHLORINE FEEDER - RECIRC PUMP	STENNER 85DM-5, 170 GPD CAPACITY. INTERLOCKED ELECTRICALLY WITH RECIRC PUMP. 110 VOLT, 1Ø	1		1	1.7	1P20A	110	0.19	Receptacle	
IWF- PH FEEDER - RECIRC PUMP	STENNER 85M5, 80 GPD CAPACITY. INTERLOCKED ELECTRICALLY WITH RECIRC PUMP. 110 VOLT, 1Ø	1		1	1.7	1P20A	110	0.19	Receptacle	
IWF- CHEMICAL CONTROLLER - RECIRC PUMP	CAT 2000 - 110 VOLT, 1Ø. INTERLOCKED WITH RECIRC PUMP MOTOR CIRCUIT	1		1	0.25	1P20A	110	0.03	8,9,10	
IWF- FEATURE PUMP	15 HP, 3 PHASE, 208 VOLT	1	15	3	35.6	3P60A	208	12.83	14,15,16,17	
IWF- PRESSURE TRANSDUCER - FEATURE PUMP	CPI-SSPD, STAINLESS STEEL PRESSURE TRANSDUCER WITH THICK FIL ON CERAMIC, 4-20 mA, 0-100 PSI	1		1	0		0	0.00	11,12,13	
IWF- CHLORINE FEEDER - FEATURE PUMP	STENNER 85DM-5, 170 GPD CAPACITY. INTERLOCKED ELECTRICALLY WITH FEATURE PUMP. 110 VOLT, 1Ø	1		1	1.7	1P20A	110	0.19	Receptacle	
IWF- PH FEEDER - FEATURE PUMP	STENNER 85M5, 80 GPD CAPACITY. INTERLOCKED ELECTRICALLY WITH FEATURE PUMP. 110 VOLT, 1Ø	1		1	1.7	1P20A	110	0.19	Receptacle	
IWF- CHEMICAL CONTROLLER - FEATURE PUMP	CAT 2000 - 110 VOLT, 1Ø. INTERLOCKED WITH FEATURE PUMP MOTOR CIRCUIT	1		1	0.25	1P20A	110	0.03	18,19,20	
IWF- ULTRA VIOLET SANITATION SYSTEM	DELTA ELP 514/3AM, 1485 WATTS, 1 PHASE, 230 VOLT	1		1	7.13	2P16A	208	1.48	21,22	
IWF- ACTUATION CONTROL	5 ZONE ACTUATION CONTROL, 600 WATTS	1		1	5	1P10A	110	0.55	26-40	
IWF- SUMP PUMP - RECIRC PIT	EBARA 1/3 H.P. OPTIMA-3MS	1		1	4.4	1P20A	110	0.48	41,42,43	
IWF- SUMP PUMP - FEATURE PIT	EBARA 1/3 H.P. OPTIMA-3MS	1		1	4.4	1P20A	110	0.48	44,45,46	
IWF- CONTROL CIRCUIT	CONTROL CIRCUIT	1		1	5	1P10A	110	0.55		
TOTAL KVA								19.56		

PROFESSIONAL SEAL:



NAME OF PROFESSIONAL
 FLORIDA REGISTERED DISCIPLINE
 LICENSE No.:
 SUBMITTAL DESCRIPTION / MILESTONE:

BIDDING
AUGUST 30, 2015

REVISIONS:

DRAWING SHEET INFORMATION
 BA PROJECT NO.: 14041
 SCALE: NTS
 DATE: JULY 13, 2015
 DRAWN BY: A.J.C.
 CHECKED BY:

DRAWING TITLE:
ELECTRICAL

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