

NEW INDEPENDENCE PARK

5849 NEW INDEPENDENCE PKWY, WINTER GARDEN, FL 34787

ORANGE COUNTY, FLORIDA

PARCEL ID NO. 21-23-27-0000-00-017
 PARCEL ID NO. 22-23-27-0000-00-001

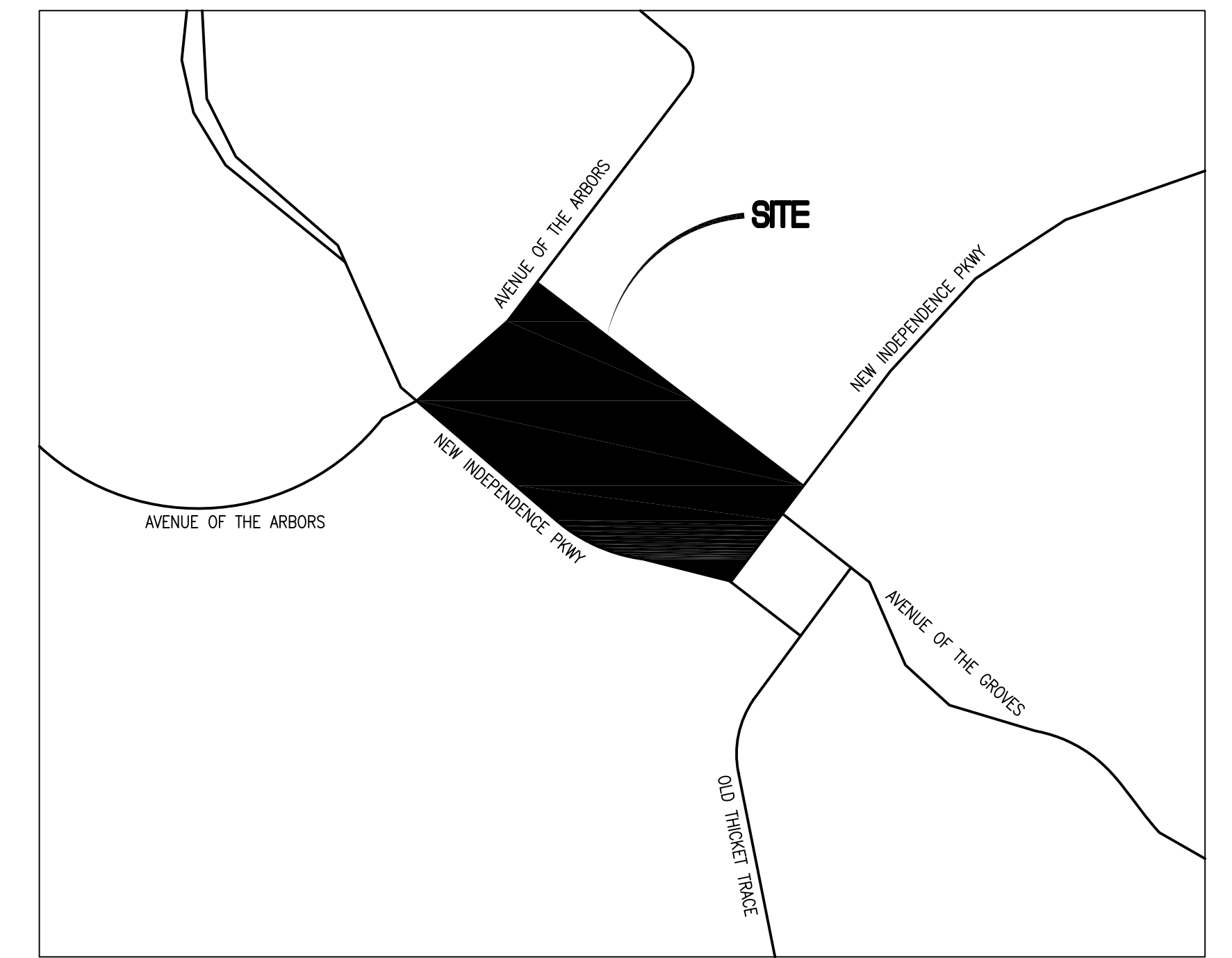


LEGAL DESCRIPTION:

PARCEL ID NO. 21-23-27-0000-00-017

PARCEL ID : 22-23-27-0000-00-001

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE COUNTY OF ORANGE, STATE OF FLORIDA, AND IS DESCRIBED AS FOLLOWS: A PORTION OF SECTIONS 21 AND 22, TOWNSHIP 23 SOUTH, RANGE 27 EAST, ORANGE COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCE AT THE SOUTHEAST CORNER OF SAID SECTION 21; THENCE RUN N 0°00'39" W, ALONG THE EAST LINE OF SAID SECTION 21, A DISTANCE OF 545.29 FEET FOR THE POINT OF BEGINNING; SAID POINT BEING A POINT ON THE WESTERLY RIGHT-OF-WAY LINE OF NEW INDEPENDENCE PARKWAY; THENCE RUN ALONG THE WESTERLY AND NORTHERLY RIGHT-OF-WAY LINE OF NEW INDEPENDENCE PARKWAY THE FOLLOWING COURSES AND DISTANCES; RUN S 39°41'21" W, A DISTANCE OF 100.42 FEET TO A POINT OF CURVATURE OF A CURVE, CONCAVE NORTHERLY, HAVING A RADIUS OF 25.00 FEET AND A CENTRAL ANGLE OF 75°14'42"; THENCE RUN WESTERLY, ALONG THE ARC OF SAID CURVE, A DISTANCE OF 32.83 FEET TO A POINT OF REVERSE CURVATURE OF A CURVE, HAVING A RADIUS OF 386.00 FEET AND A CENTRAL ANGLE OF 21°31'13"; THENCE RUN WESTERLY ALONG THE ARC OF SAID CURVE, A DISTANCE OF 144.98 FEET TO THE POINT OF TANGENCY THEREOF; THENCE RUN N 86°35'10" W, A DISTANCE OF 13.71 FEET TO A POINT OF CURVATURE OF A CURVE, CONCAVE NORTHERLY, HAVING A RADIUS OF 314.00 FEET AND A CENTRAL ANGLE OF 04°27'36"; THENCE RUN WESTERLY, ALONG THE ARC OF SAID CURVE, A DISTANCE OF 24.44 FEET TO A POINT ON THE EASTERLY LINE OF LANDS DESCRIBED AND RECORDED IN OFFICIAL RECORDS BOOK 7078, PAGE 5015 AND RE-RECORDED IN OFFICIAL RECORDS BOOK 7111, PAGE 2259, ALL IN THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA; THENCE, DEPARTING THE NORTHERLY RIGHT-OF-WAY LINE OF NEW INDEPENDENCE PARKWAY, RUN N 39°41'21" E, ALONG THE EASTERLY LINE OF SAID LANDS DESCRIBED AND RECORDED IN OFFICIAL RECORDS BOOK 7078, PAGE 5015 AND RE-RECORDED IN OFFICIAL RECORDS BOOK 7111, PAGE 2259, A DISTANCE OF 351.85 FEET; THENCE RUN S 50°18'39" E, A DISTANCE OF 180.01 FEET TO A POINT ON THE AFORESAID WESTERLY RIGHT-OF-WAY LINE OF NEW INDEPENDENCE PARKWAY; THENCE RUN S 39°41'21" W, ALONG SAID WESTERLY RIGHT-OF-WAY LINE, A DISTANCE OF 143.37 FEET TO THE POINT OF BEGINNING.
 CONTAINING: 1.235 ACRES, MORE OR LESS.



LOCATION MAP
SCALE: N/A

OWNER

ORANGE COUNTY CAPITAL PROJECTS
 400 E. SOUTH ST., 5TH FLOOR
 ORLANDO, FL 32801
 (407) 836-0050

UTILITY PROVIDERS

ELECTRIC - DUKE ENERGY
 WATER - OC UTILITY DEPARTMENT

PLANNERS + ENGINEERS

SK CONSORTIUM, INC.
 1053 N. ORLANDO AVE, SUITE 3
 MAITLAND, FL 32751
 (407) 629-4288

SURVEYORS

JONES, WOOD & GENTRY, INC.
 2600 E. ROBINSON ST.
 ORLANDO, FL 32803
 (407) 898-7780

LANDSCAPE ARCHITECT

TOM PETERSON
 3361 PELHAM RD.
 ORLANDO, FL 32789
 (407) 897-4492

TERESA JACOBS

MAYOR

ORANGE COUNTY BOARD OF COUNTY COMMISSIONERS

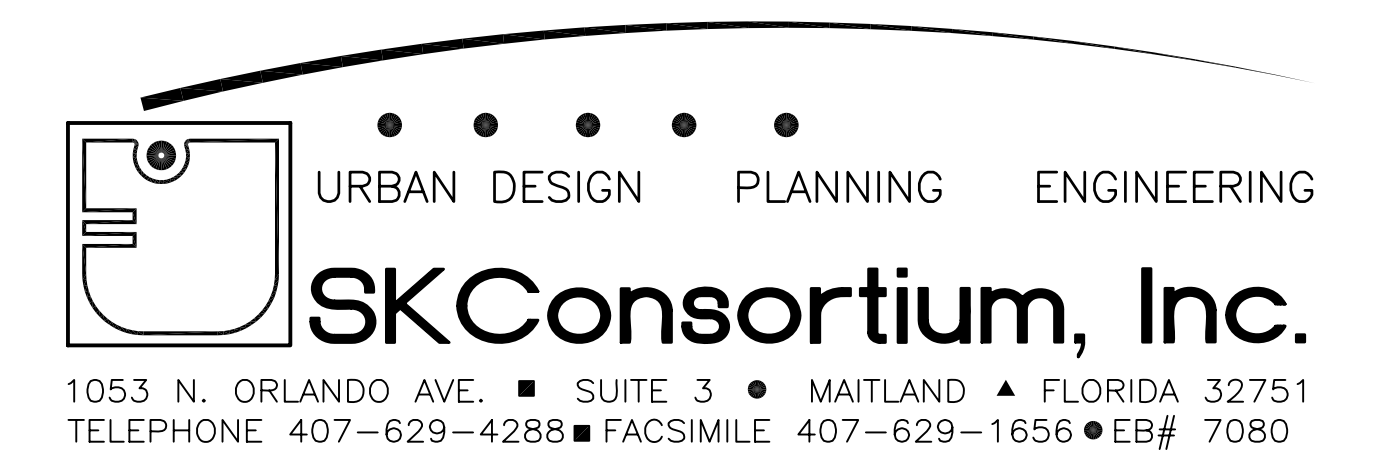
S. SCOTT BOYD
 FREDERICK C. BRUMMER
 PETE CLARK
 JENNIFER THOMPSON
 TED B. EDWARDS
 TIFFANY MOORE RUSSELL

DISTRICT 1
 DISTRICT 2
 DISTRICT 3
 DISTRICT 4
 DISTRICT 5
 DISTRICT 6

INDEX OF DRAWINGS

CS1	-COVER SHEET
C001	-DEMOLITION & EROSION CONTROL PLAN
C100	-OVERALL SITE PLAN
C101	-DETAIL SITE DEVELOPMENT PLAN
C102	-DETAIL SITE DEVELOPMENT PLAN
C200	-OVERALL DRAINAGE & GRADING PLAN
C201	-DETAIL GRADING & DRAINAGE PLAN
C202	-DETAIL GRADING & DRAINAGE PLAN
C300	-UTILITY PLAN
C401	-SITE DETAILS
C402	-OC UTILITY DETAILS
C403	-OC UTILITY DETAILS
L100	-SITE LANDSCAPE PLAN
L100	-SITE IRRIGATION PLAN

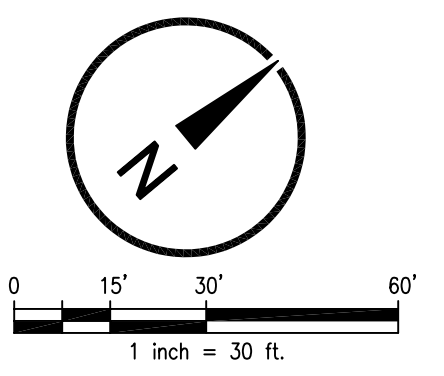
BID + PERMIT SET
 10-30-14



EXISTING SITE DATA:

TOTAL PROPERTY AREA: 5.00 AC. + 1.235 AC. = 6.24 ACRES
PARCEL ID NO. 21-23-27-0000-00-017
22-23-27-0000-00-001

ZONING: SEE ZONES
CENTERLINE FRONT YARD: NOT REQUIRED
SIDE YARD: 25 FT.
REAR YARD: 25 FT.



FLOOD ZONE NOTES

THIS PARCEL IS WITHIN "ZONE X" (AREAS DETERMINED TO BE OUTSIDE THE 2% ANNUAL CHANCE FLOODPLAIN), BASED ON COMMUNITY PANEL NUMBER 12095C0380F, REVISED SEPTEMBER 25, 2009.

SOIL EROSION AND SEDIMENTATION CONTROL NOTES

- ALL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM TO STANDARDS OF ORANGE COUNTY, FL AND SOUTH FLORIDA WATER MANAGEMENT DISTRICT.
- EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN, CONSTRUCTION.
- SOIL MATERIALS, FROM WORK ON THIS PROJECT SHALL BE CONTAINED, AND NOT ALLOWED TO COLLECT ON ANY OFF-PERIMETER AREAS OR IN WATERWAYS. THESE INCLUDE BOTH NATURAL AND MAN-MADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES AND PONDS.

PERMANENT EROSION CONTROL MEASURES

- PERMANENT SODING: ALL AREAS, WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL AS A MIN., BE SEEDED. THE SEEDING MIX MUST PROVIDE BOTH LONG-TERM VEGETATION AND RAPID GROWTH SEASONAL VEGETATION. SLOPES STEEPER THAN 4:1 SHALL BE SEEDED AND MULCHED OR SODDED.
- PERMANENT STORMWATER MANAGEMENT SYSTEM SHALL BE MAINTAINED, CLEANED AND INSPECTED IN ACCORDANCE WITH THE SPWM PERMIT.

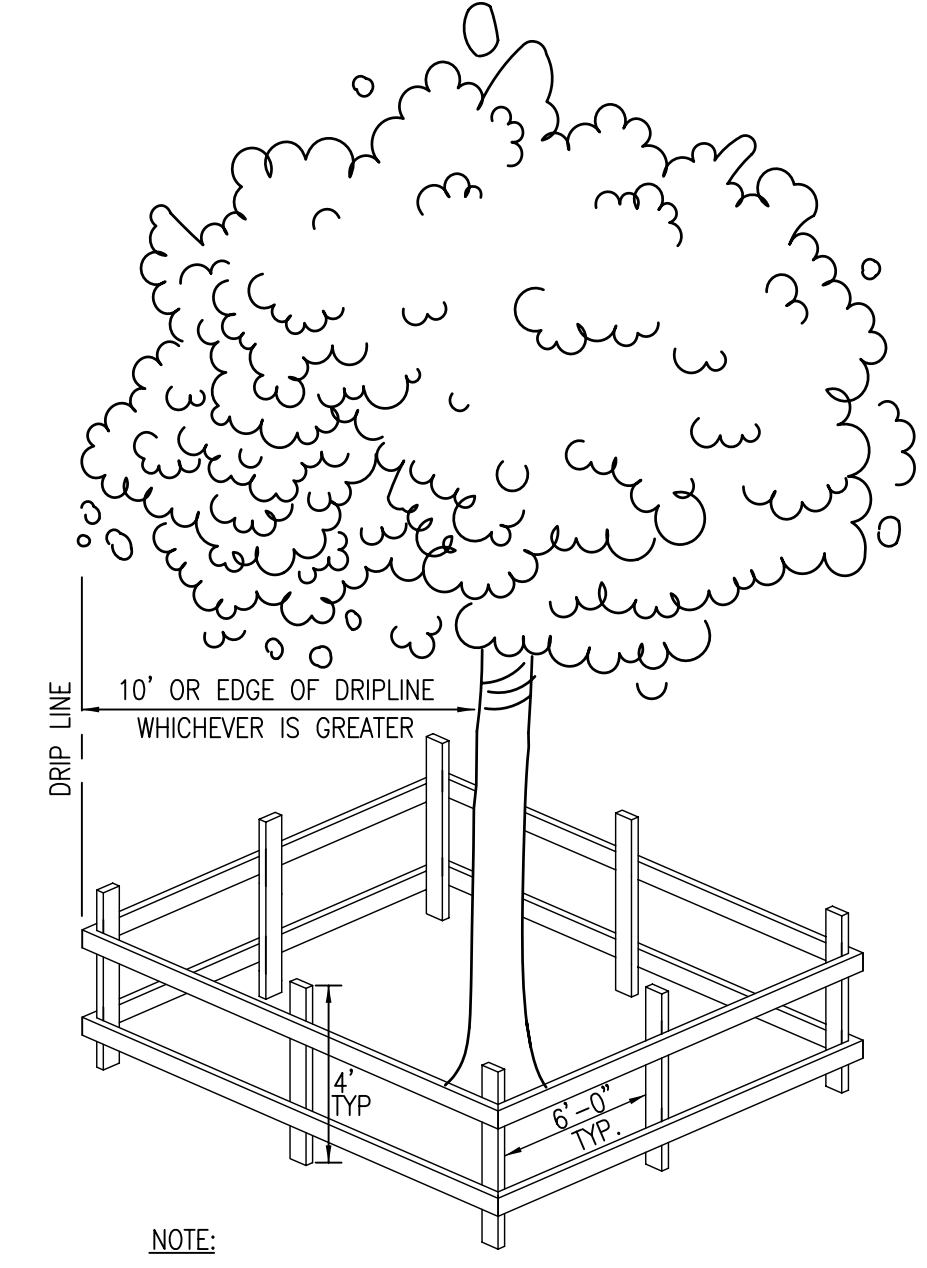
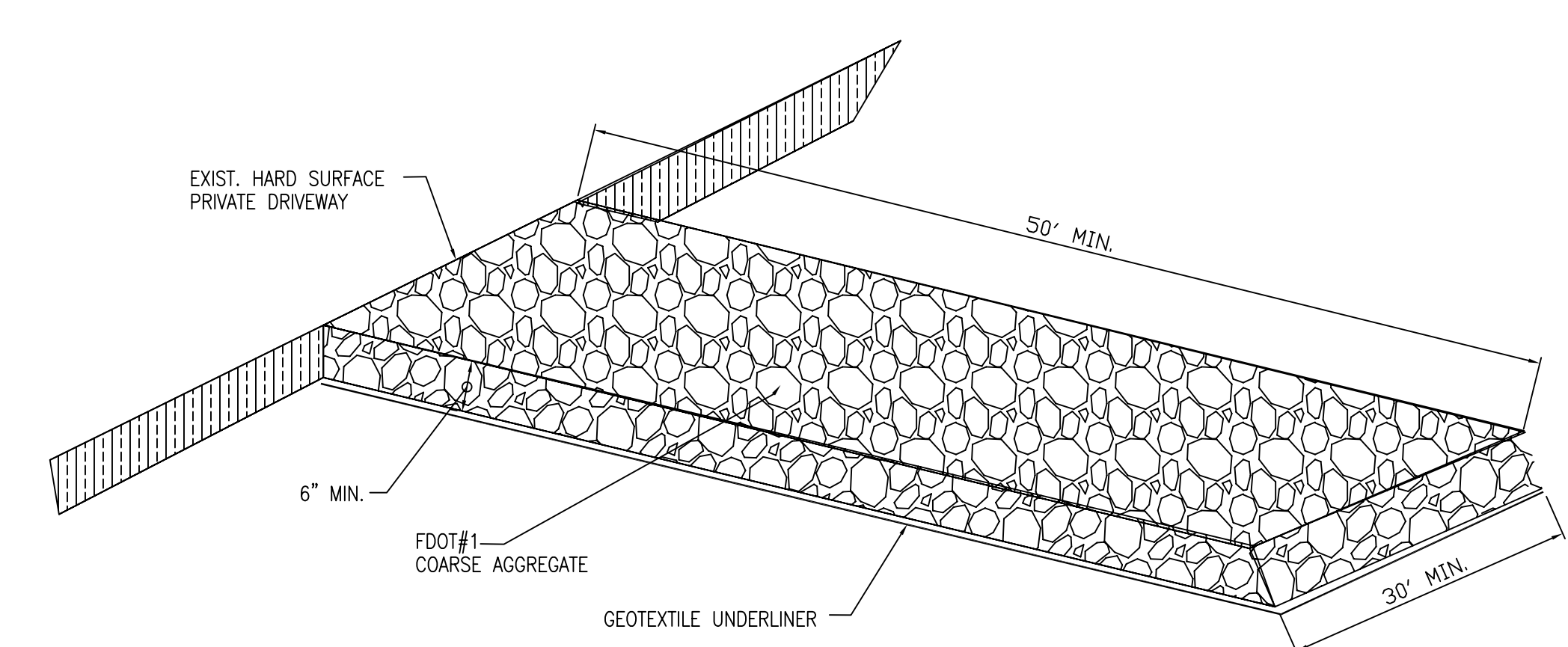
INSPECTIONS:

- AN INSPECTOR, CERTIFIED BY ORANGE COUNTY, IS REQUIRED TO INSPECT THE EROSION AND SEDIMENTATION CONTROL MEASURES SHOWN ON APPROVED STORMWATER POLLUTION PREVENTION PLAN. INSPECTION REPORTS ARE TO BE COMPLETED ON ORANGE COUNTY'S FORM AND SUBMITTED ONCE EVERY WEEK AND AFTER EVERY RAINFALL OF 0.50" OR MORE DURING THE CONSTRUCTION PHASE.
- ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOME ONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND FOLLOWING ANY STORM EVENT OF 0.25 INCHES OR GREATER.
- BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.
- SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.
- A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. A COPY OF THE REPORT FORM TO BE COMPLETED BY THE INSPECTOR IS ATTACHED. THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL STATE OR LOCAL AGENCY APPROVING SEDIMENT AND EROSION PLANS, OR STORMWATER MANAGEMENT PLANS. THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION IS SUBMITTED. THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE.
- PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT AND WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORTS.

GENERAL NOTES

- ALL INFORMATION SHOWN ON THIS PLAN IS BASED ON INFORMATION PROVIDED BY JONES, WOOD, AND GENTRY, INC.
- CONTRACTOR IS RESPONSIBLE FOR SITE CLEARING WITHIN PROJECT LIMITS.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES AND IMPROVEMENTS PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL VEGETATION AND TREES INTERFERING WITH NEW IMPROVEMENTS.
- THE LOCATION/EXTENT OF SILT FENCE SHOWN IS FOR INFORMATION ONLY. COORDINATE EXACT LOCATION WITH RESPECT TO CLEARING/EARTHWORK LIMITS, SITE IMPROVEMENTS & CONSTRUCTION PHASING.

1 CONSTRUCTION ENTRANCE
C001 NOT TO SCALE



NOTE:
BARRIER SHOULD BE EITHER 10 FEET FROM THE TRUNK OF THE TREE OR AT THE EDGE OF THE DRIPLINE, WHICHEVER IS GREATER.

FOR THE BARRIER, PROVIDE SAFETY BARRICADE FENCING. IF NOT AVAILABLE, 1X2 STRINGERS AND 2X4 POSTS ARE ACCEPTABLE.

2 TREE PROTECTION DETAIL
C001 NOT TO SCALE

TREE LEGEND

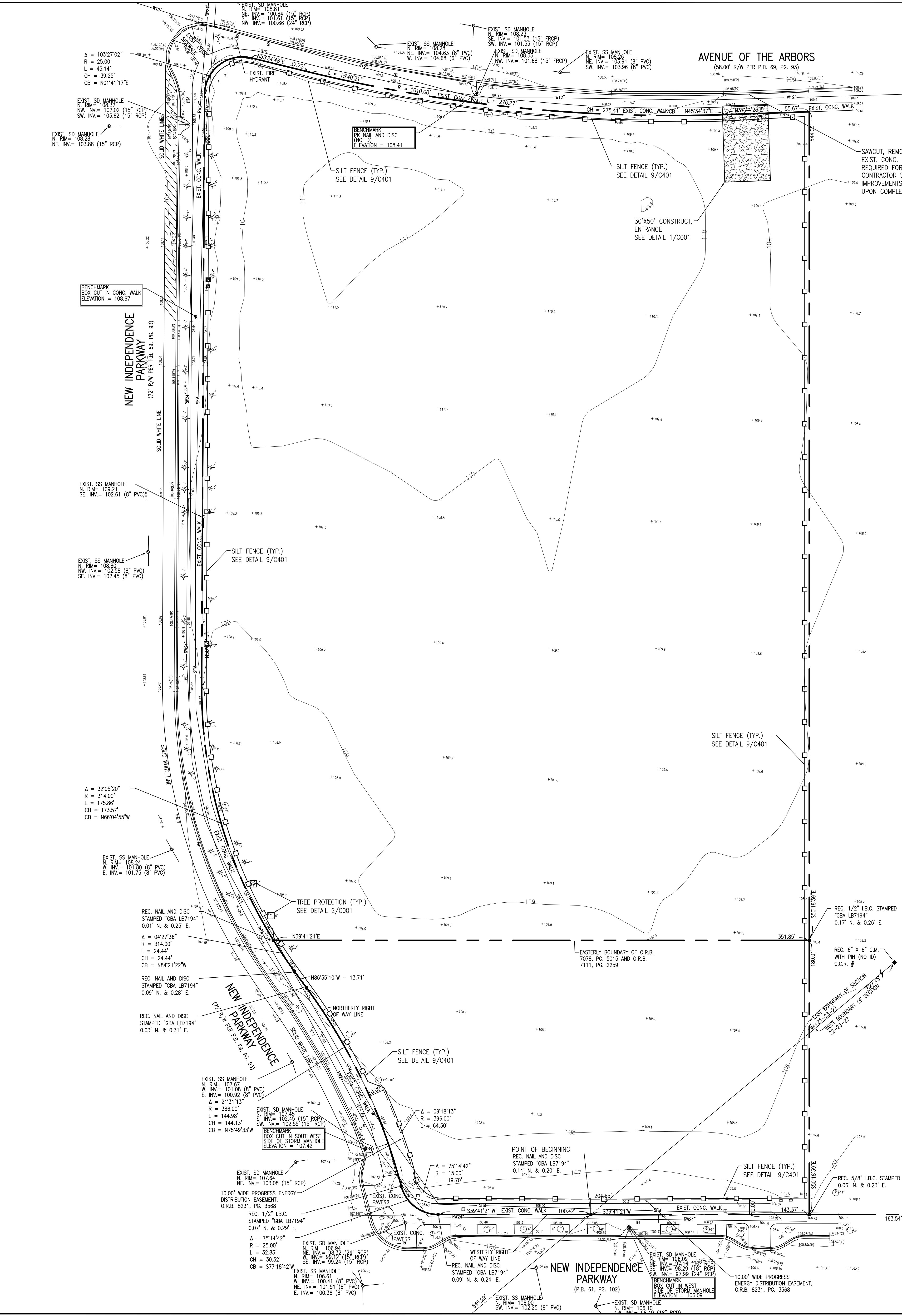
- OAK TREE
- CREPE MYRTLE TREE

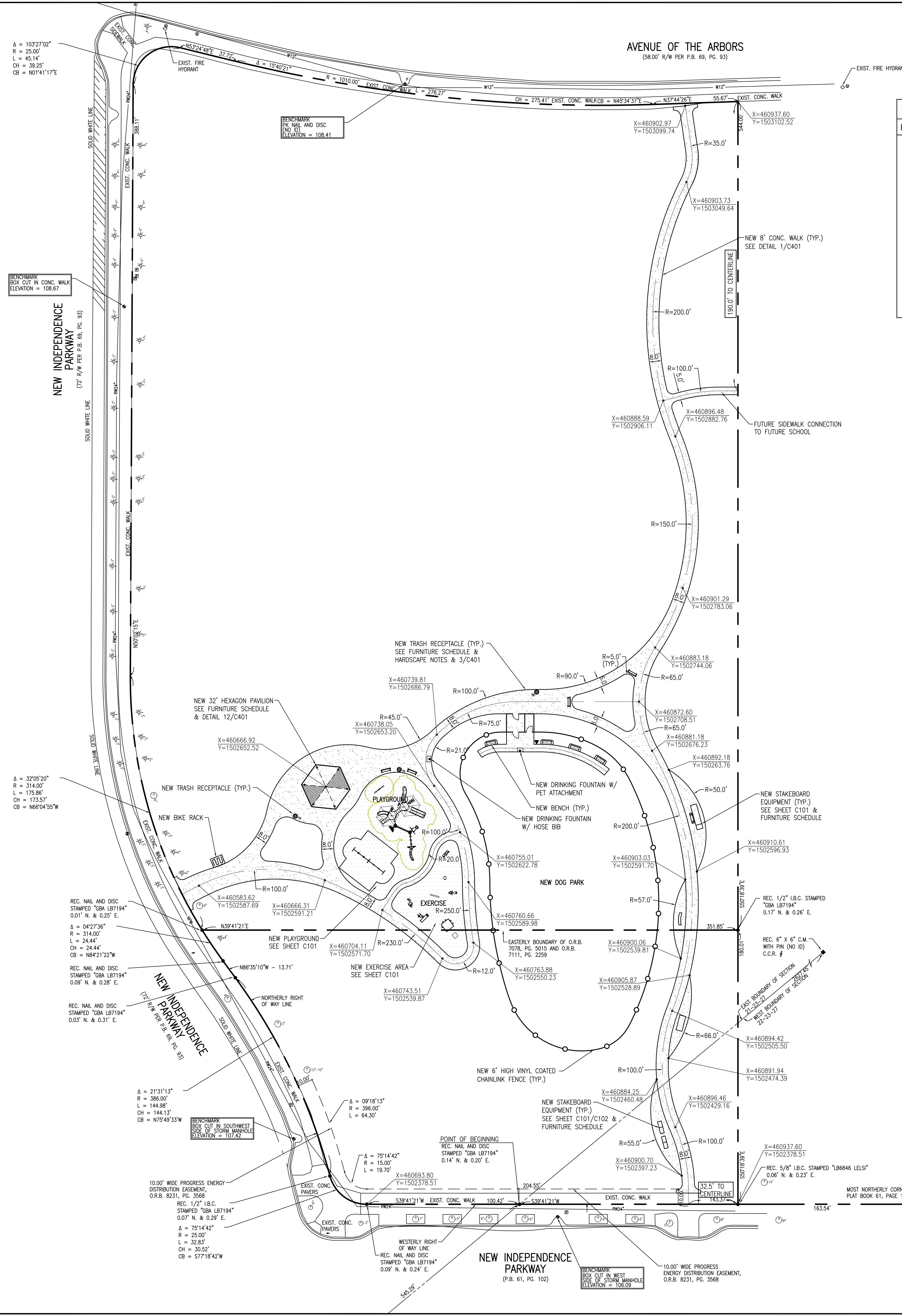
LEGEND

	EXIST.	TO BE REMOVED
ASPHALT PAVEMENT	[Symbol]	[Symbol]
CONCRETE WALK	[Symbol]	[Symbol]
CONCRETE CURB	[Symbol]	[Symbol]
SIGN	[Symbol]	[Symbol]
CHAIN LINK FENCE	[Symbol]	[Symbol]
WATER LINE	[Symbol]	[Symbol]
SANITARY SEWER LINE	[Symbol]	[Symbol]
STORM DRAIN LINE	[Symbol]	[Symbol]
POWER POLE	[Symbol]	[Symbol]
LIGHT POLE	[Symbol]	[Symbol]
FIRE HYDRANT	[Symbol]	[Symbol]
SANITARY SEWER MANHOLE	[Symbol]	[Symbol]
STORM DRAIN INLET	[Symbol]	[Symbol]
STORM SEWER MANHOLE	[Symbol]	[Symbol]

DEMOLITION AND EROSION CONTROL PLAN

SCALE: 1" = 30'





LEGEND				
DESCRIPTION	QUANTITY	MANUFACTURER, MODEL No.	DESCRIPTION	NOTES
SEE PLAN	32' HEX GROUP PAVILION	1	ICON SHELTER SYSTEMS INC. CX33M-PS OR APPROVED EQUAL	32' STEEL FRAME HEXAGON, COLOR SELECTED BY OWNER
	WATER FOUNTAIN (1 W/ PET ATTACHMENT)	2	MOST DEPENDABLE FOUNTAINS INC. 440 SM OR APPROVED EQUAL	SURFACE MOUNT, COLOR SELECTED BY OWNER, JUG FILTER, RECESSED HOSE BIB
	TRASH RECEPTACLE	3	WABASH VALLEY, PART# 9557 OR APPROVED EQUAL	32 GAL EXPANDED METAL, COLOR SELECTED BY OWNER
	LIDS-RECEPTACLE	3	WABASH VALLEY, PART# LR105N, DT200N OR APPROVED EQUAL	DOME TOP LID, COLOR SELECTED BY OWNER
	MOUNTING-RECEPTACLE	3	WABASH VALLEY OR APPROVED EQUAL	SURFACE PEDESTAL MOUNT
	DOG PARK TRASH RECEPTACLE	1	PILOT ROCK, GLADIATOR PET WASTE STATION OR APPROVED EQUAL	72"x14", ALUMINUM CONSTRUCTION, WASTE STATION SIGN
	PARK BENCH	8	WABASH VALLEY, CN4000 OR APPROVED EQUAL	6' EXPANDED METAL, SURFACE MOUNT, COLOR SELECTED BY OWNER
	ROUND PICNIC TABLE	5	WABASH VALLEY, SG1500 OR APPROVED EQUAL	4' EXPANDED METAL ROUND TABLE, SURFACE MOUNT
	SKATEBOARD GRINDBOX RADIUS	1	AMERICAN RAMP COMPANY OR APPROVED EQUAL	CONCRETE, H1'2" X W1'5" X L8'0"
	SKATEBOARD BENCH	1	AMERICAN RAMP COMPANY OR APPROVED EQUAL	CONCRETE, H1'2" X W1'5" X L12'0"
	SKATEBOARD WAVE	1	AMERICAN RAMP COMPANY OR APPROVED EQUAL	CONCRETE, H2'0" X W4'0" X L16'5"
	SKATEBOARD DRAGON BACK	1	AMERICAN RAMP COMPANY, REPLICA SERIES OR APPROVED EQUAL	H1'-1.5" X W4'0" X L10'0"
	SKATEBOARD SKATE BENCH	2	AMERICAN RAMP COMPANY OR APPROVED EQUAL	CONCRETE, H1' X W2.5' X L8'0"
	BIKE RACK	1	MADRAX MODEL: GENESIS GNS-6	SURFACE MOUNT/ POWDER COATED
				COLOR BY OWNER

BASIS OF DESIGN

THE ABOVE MANUFACTURERS REPRESENT BASIS OF DESIGN. CONTRACTOR MAY SUBMIT AN APPROVED EQUAL TO ABOVE LISTED FURNITURE AND WILL BE RESPONSIBLE FOR ANY CHANGES IN DESIGN, FABRICATION/SHOP DRAWING REVIEW AND INSTALLATION COSTS.

SITE DATA:

PARCEL ID # 21-23-27-0000-00-017
 ZONING 22-23-27-0000-00-001
 P-0
 TOTAL SITE AREA 6.24 ACRES
 PAVILIONS 665 SF
 PAVEMENT/HARDSCAPE 23,719 SF
 TOTAL IMPERVIOUS AREA 24,394 SF = 0.56 ACRES = 8.97%
 TOTAL PERVIOUS AREA 5.68 ACRES = 91.03%
 PARKING PROVIDED ON STREET PARKING ARE PROVIDED ALONG THE NORTH AND EAST SIDE OF NEW INDEPENDENCE PARKWAY. ESTIMATED 37 SPACES ARE AVAILABLE FOR THE PARK.

GEOMETRY NOTES

- ALL SURVEY DATA USED AND CONDITIONS ASSUMED TO BE PRESENT IN PREPARATION OF THESE PLANS WAS PROVIDED BY (JONES, WOOD, & GENTRY, INC.). S.K. CONSORTIUM, INC. DOES NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THIS DATA.
- THE CONTRACTOR SHALL VERIFY AND LOCATE ALL VERTICAL AND HORIZONTAL CONTROL POINTS PRIOR TO CONSTRUCTION. IF ANY DISCREPANCIES SHOULD BE FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SURVEYOR OF THE CONDITION IN WRITING PRIOR TO COMMENCING HIS CONSTRUCTION ACTIVITIES.
- ALL PAVEMENT OFFSETS, RADI AND DIMENSIONS SHOWN ARE TO PROPOSED EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL STAKE ALL IMPROVEMENTS USING THE GEOMETRIC DATA PROVIDED. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO COMPLETELY STAKE AND CHECK ALL IMPROVEMENTS TO ENSURE ADEQUATE POSITIONING, BOTH HORIZONTAL AND VERTICAL, PRIOR TO THE INSTALLATION OF ANY IMPROVEMENTS.
- THE CONTRACTOR SHALL REFERENCE AND RESTORE PROPERTY CORNERS AND LAND MARKERS DISTURBED DURING CONSTRUCTION (UNDER THE DIRECTION OF A FLORIDA REGISTERED LAND SURVEYOR).

GENERAL NOTES

- ALL HANDICAP RAMPS SHALL BE IN ACCORDANCE W/FDC 2010 & FDOT INDEX 0304 AND MUST HAVE TRUNKETED DOME PER OC REQUIREMENTS.
- CONTRACTOR TO PROVIDE BIKE RACKS WHERE SHOWN ON PLAN. PROVIDE 6'X8' CONCRETE SLAB SIMILAR TO DETAIL 1/C401

HARDSCAPE NOTES

- PICNIC TABLES ARE TO BE INSTALLED @ PAVILION AS DIRECTED BY OPCR.
- FOR EACH BENCH AND PICNIC TABLE, PROVIDE PERMANENT ANCHORING TO CONCRETE SLAB PER MANUFACTURER RECOMMENDATION.
- PROVIDE TRASH RECEPTACLES WITH LINERS AND LID INCLUDING CHAIN FOR SECURING. PROVIDE 4'X4'X6" CONCRETE SLAB FOR INSTALLATION OF RECEPTACLES W/ PROPER ANCHORING PER MANUFACTURER WHERE SHOWN ON PLAN. SEE DETAIL 3/C401.
- PLAYGROUND EQUIPMENT AND ENGINEERED WOOD FIBER AND SUB-SURFACE DRAINAGE COURSE SURFACE SHALL BE INSTALLED BY LOCAL REPRESENTATIVE OF PLAYGROUND MANUFACTURER. CONTRACTOR SHALL COORDINATE ALL PERMITTING AND CONSTRUCTION EFFORT. PROVIDE CERTIFIED SHOP DRAWINGS FROM MANUFACTURER FOR REVIEW AND APPROVAL BY OWNER AND BUILDING DEPARTMENT.
- PROVIDE 4'X8'X4" CONC. PAD FOR EACH BENCH WHERE SHOWN ON PLANS. PROVIDE PERMANENT ANCHORING TO CONCRETE SLAB PER MANUFACTURER RECOMMENDATION. SEE DETAIL 7/C401
- LOCATION OF ALL FURNITURE SHOWN SHALL BE VERIFIED AND ACCEPTED BY O.C. PRIOR TO PLACEMENT OF CONCRETE OR FURNITURE.
- DRINKING FOUNTAINS SHALL BE INSTALLED WITH OPTIONAL JUG FILLER AND ALL RELATED PIPING AND DRAINAGE SYSTEM. INSTALL FOUNTAINS IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS WITH FOUNDATION SIMILAR TO DETAIL 6/C401. FINAL LOCATION OF FOUNTAINS SHALL BE COORDINATED IN THE FIELD AND APPROVED BY ORANGE COUNTY REPRESENTATIVE. FOUNTAINS SHALL BE ORDERED WITH PUSH BOTTOMS TO THE FRONT FACING THE CONCRETE WALK. PROVIDE SHUT-OFF VALVE WITHIN GRASS AREA ADJACENT TO THE FOUNTAIN. ALL FOUNTAINS SHALL HAVE A DRY WELL FOR DRAINAGE PER DETAIL 5/C401, PLACE DRY WELL WITHIN 4 FT. OF FOUNTAIN AND PROVIDE ALL PIPING.
- SKATE BOARD EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER REQUIREMENTS. CONTRACTOR SHALL VERIFY DIMENSIONS OF THE PURCHASED EQUIPMENT WITH RESPECT TO HARDSCAPE PRIOR TO PLACEMENT OF CONCRETE. SUBMIT SHOP DRAWINGS OF THE EQUIPMENT FOR APPROVAL BY OC.

ALTERNATE BIDS DEDUCT

PROVIDE THE FOLLOWING ALTERNATIVE BID DEDUCTS.

- DOG PARK
DELETE FENCING, GATES, SIDEWALK, FIXTURES & ALL FURNITURE ASSOCIATED W/ DOG PARK, INCLUDING DRINKING FOUNTAIN AND IRRIGATION ZONE WITHIN THE DOG PARK. GRADE THE AREA AS SHOWN AND SOD ALL DISTURBED AREAS.
- EXERCISE EQUIPMENT
DELETE EXERCISE EQUIPMENT, ENGINEERED WOOD MULCH & ASSOCIATED BEDDING. GRADE AREA PER PLAN AND SOD.
- SKATE PARK EQUIPMENT
DELETE ALL SKATE PARK EQUIPMENT. CONCRETE HARDSCAPE WILL BE CONSTRUCTED.

LEGEND:

	EXIST	NEW
ASPHALT PAVEMENT		
CONCRETE WALK		
CONCRETE CURB		
CONC. CURB & GUTTER		
FENCE		
LIGHT POLE		
FIRE HYDRANT		
POWER POLE		
SIGN		

OVERALL SITE PLAN

SCALE: 1" = 30'

OVERALL SITE PLAN

NEW INDEPENDENCE PARK

OC CAPITAL PROJECTS

ORANGE COUNTY, FL

DESIGN DEVELOPMENT 30% 8-15-14
 90% SUBMITTAL 9-5-14
 PER TRG 10-1-14
 100% SUBMITTAL 10-8-14
 REVISED PER DRC 10-23-14
 BID AND PERMIT SET 10-30-14

Issue Date and Purpose
 Project Number: 1415
 Drawn by: D. FORSYTH
 Checked: M. KALAGHCHI
 File No: C100
 1415000008

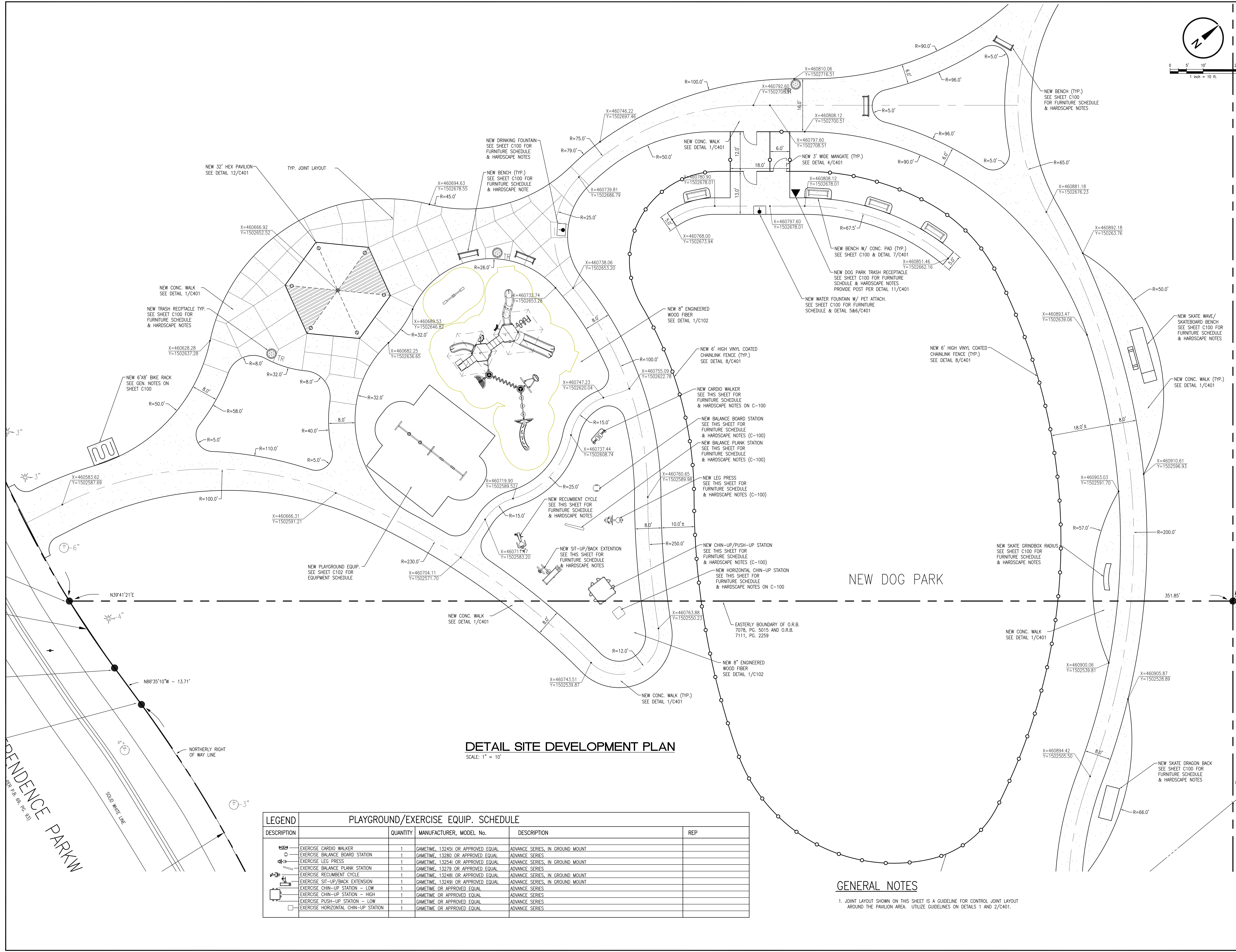
Seal: Majid Kalaghchi P.E. 41046

Seal: Majid Kalaghchi P.E. 41046

DETAIL SITE DEVELOPMENT PLAN
NEW INDEPENDENCE PARK
OC CAPITAL PROJECTS
ORANGE COUNTY, FL

DESIGN DEVELOPMENT 30% 8-15-14
90% SUBMITTAL 9-5-14
PER TRG 10-1-14
100% SUBMITTAL 10-8-14
REVISED PER DRC 10-23-14
BID AND PERMIT SET 10-30-14

Issue Date and Purpose
Project Number: **1415**
Drawn by: D. FORSTH
Checked by: M. KALAGHCHI
File No: C101
41500000



DETAIL SITE DEVELOPMENT PLAN

SCALE: 1" = 10'

PLAYGROUND/EXERCISE EQUIP. SCHEDULE				
DESCRIPTION	QUANTITY	MANUFACTURER, MODEL No.	DESCRIPTION	REP
EXERCISE CARDIO WALKER	1	GAMETIME, 13245I OR APPROVED EQUAL	ADVANCE SERIES, IN GROUND MOUNT	
EXERCISE BALANCE BOARD STATION	1	GAMETIME, 13280 OR APPROVED EQUAL	ADVANCE SERIES	
EXERCISE LEG PRESS	1	GAMETIME, 13254I OR APPROVED EQUAL	ADVANCE SERIES, IN GROUND MOUNT	
EXERCISE BALANCE PLANK STATION	1	GAMETIME, 13279 OR APPROVED EQUAL	ADVANCE SERIES	
EXERCISE RECLINENT CYCLE	1	GAMETIME, 13248I OR APPROVED EQUAL	ADVANCE SERIES, IN GROUND MOUNT	
EXERCISE SIT-UP/BACK EXTENSION	1	GAMETIME, 13249I OR APPROVED EQUAL	ADVANCE SERIES, IN GROUND MOUNT	
EXERCISE CHIN-UP STATION - LOW	1	GAMETIME OR APPROVED EQUAL	ADVANCE SERIES	
EXERCISE CHIN-UP STATION - HIGH	1	GAMETIME OR APPROVED EQUAL	ADVANCE SERIES	
EXERCISE PUSH-UP STATION - LOW	1	GAMETIME OR APPROVED EQUAL	ADVANCE SERIES	
EXERCISE HORIZONTAL CHIN-UP STATION	1	GAMETIME OR APPROVED EQUAL	ADVANCE SERIES	

GENERAL NOTES

1. JOINT LAYOUT SHOWN ON THIS SHEET IS A GUIDELINE FOR CONTROL JOINT LAYOUT AROUND THE PAVILION AREA. UTILIZE GUIDELINES ON DETAILS 1 AND 2/C401.

INDEPENDENCE PARK
REV. P.B. 08. P.C. 09

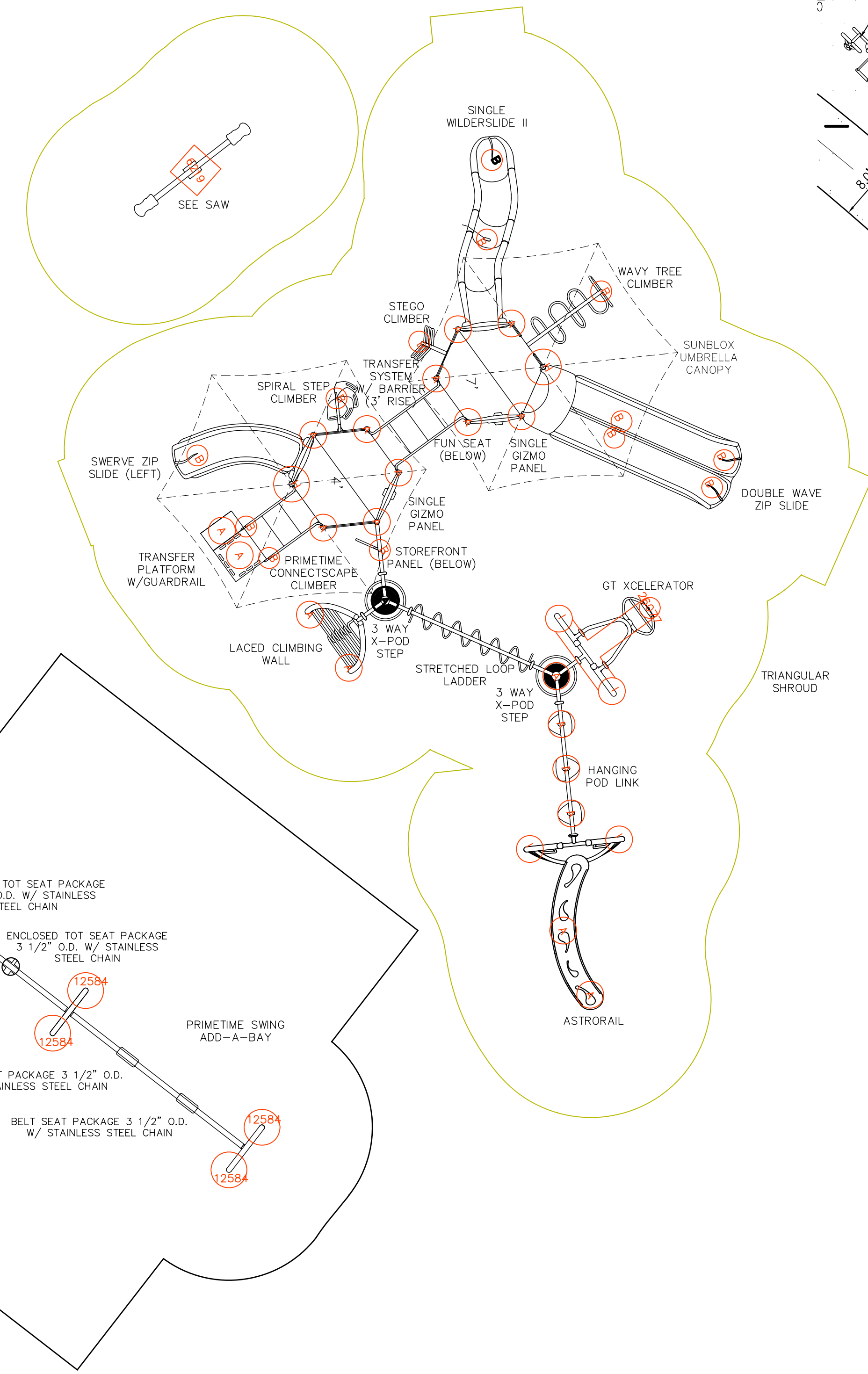
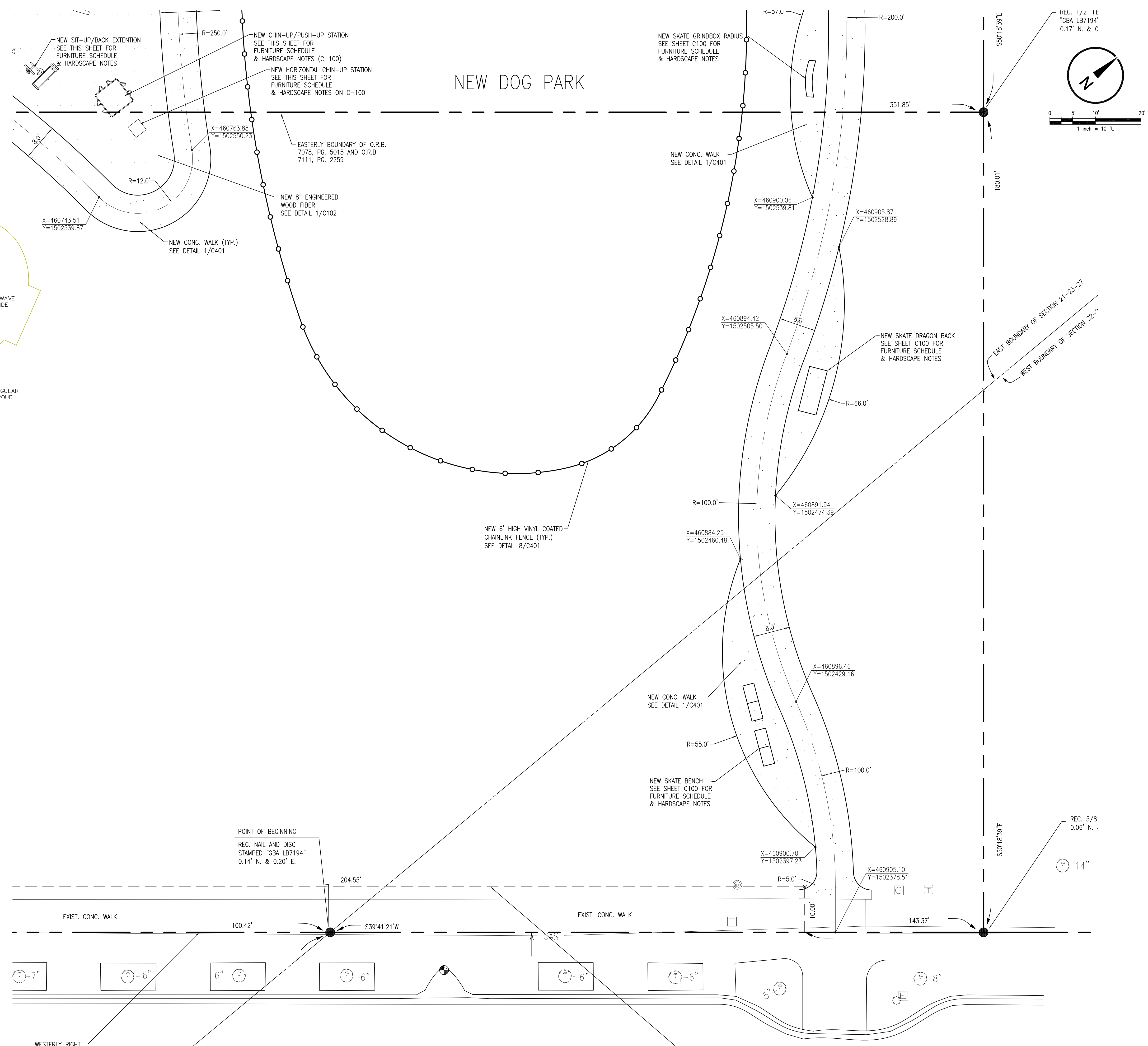
Seal: Mojib Kaloghchi P.E. 41046

DETAIL SITE DEVELOPMENT PLAN
NEW INDEPENDENCE PARK
OC CAPITAL PROJECTS
ORANGE COUNTY, FL

DESIGN DEVELOPMENT 30% 8-15-14
80% SUBMITTAL 9-5-14
PER TRG 10-1-14
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BID AND PERMIT SET 10-30-14

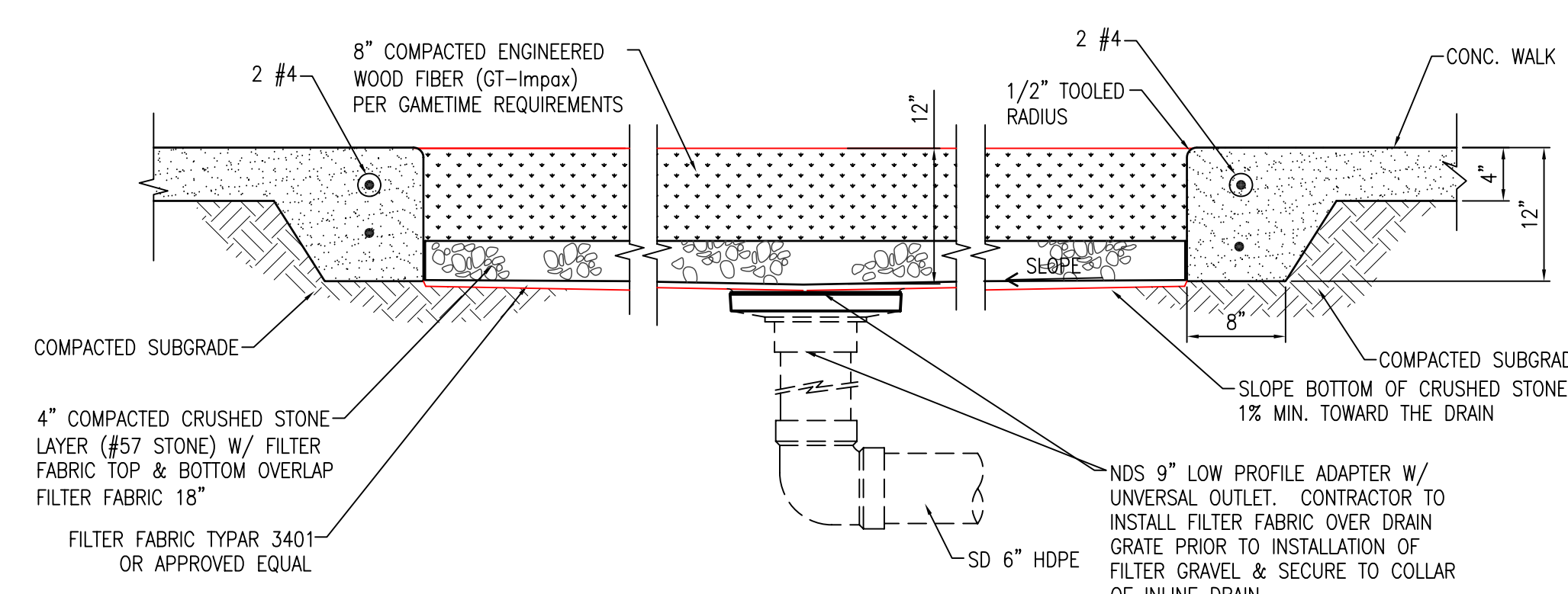
Issue Date and Purpose
Project Number:
1415
Drawn by:
D. FORSTH
Checked:
M. KALAGHCI
File No:
1415006008

C102



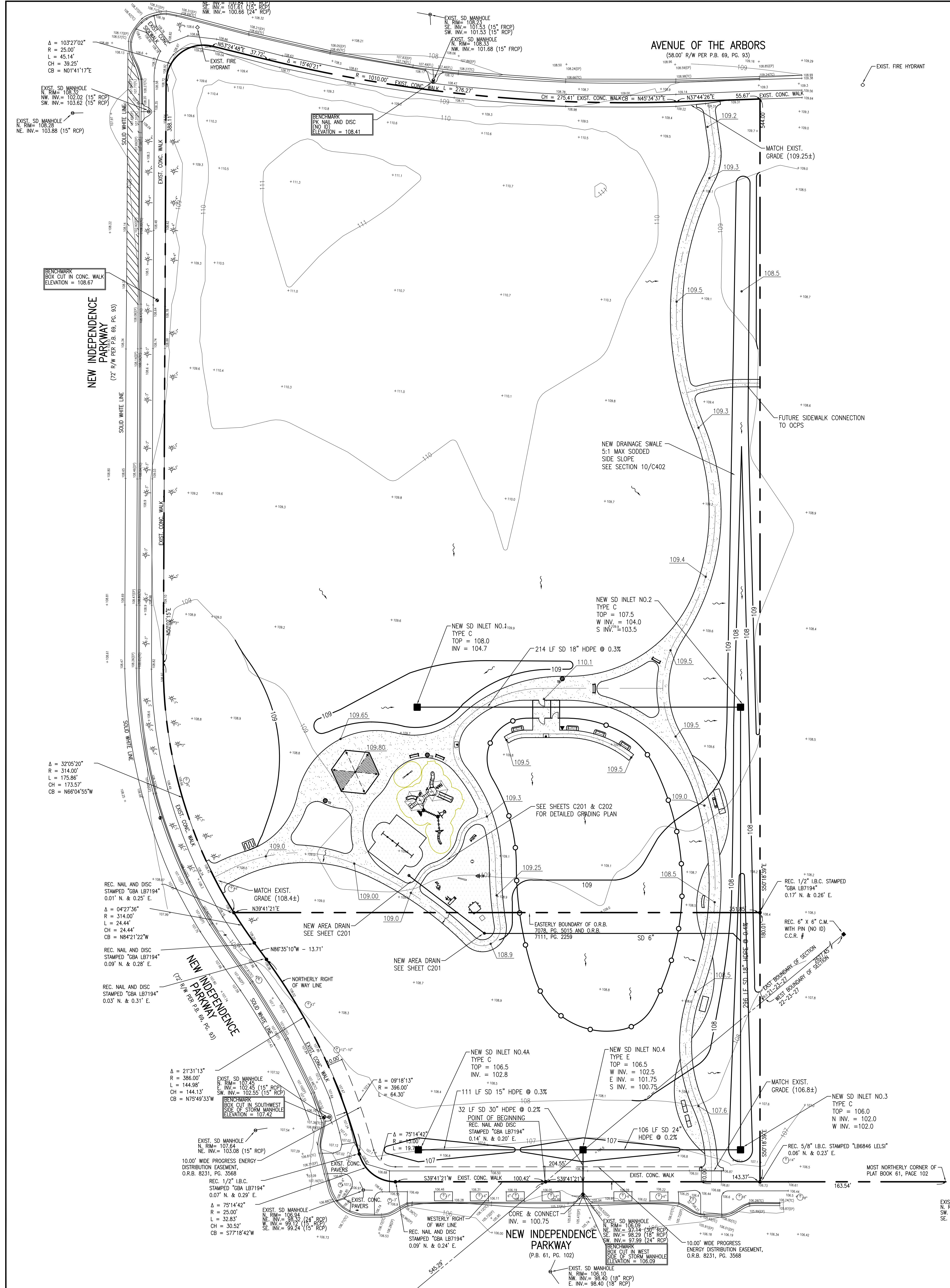
GEN. NOTES-PLAYGROUND EQUIPMENT

1. PLAY AREAS & EQUIPMENT'S ARE DESIGNED FOR AGES 5-12 YEARS
2. DESIGN BASIS USED FOR PLAY EQUIPMENT: GAMETIME
LOCAL REPRESENTATIVE:
DOMINICA RECREATION PRODUCTS
P.O. BOX 520700
LONGWOOD, FL 32752
800-432-0162
3. THE SELECTED MANUFACTURERS SHALL PROVIDE AND CERTIFY THAT THIS PLAY STRUCTURE CONFORMS TO ACCESSIBILITY REQUIREMENTS OF 2010 A.D.A. (AMERICANS WITH DISABILITIES ACT)
4. ALL PLAYGROUND EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER STANDARDS AND SPECIFICATIONS
5. CONTRACTOR SHALL PROVIDE FABRICATION DRAWINGS FOR REVIEW AND APPROVAL BY ORANGE COUNTY.
6. PLAYGROUND EQUIPMENT AND RESILIENT SURFACE (ENGINEERED WOOD FIBER) SHALL BE FURNISHED AND INSTALLED BY PLAYGROUND MANUFACTURER REPRESENTATIVE. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH PLAYGROUND INSTALLER FOR PLACEMENT OF ALL EQUIPMENT.
7. ALL PLAY EQUIPMENT DESIGN AND CONNECTIONS SHALL BE IN COMPLIANCE WITH ASTM F1487-11.
8. ALL PROTECTIVE SURFACING SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH ASTM F1292, F1951, F2075, F2223, F2479 AND F1487.



SECTION @ CRUSHED CONC./ENGINEERED FIBER
C102 NOT TO SCALE

DETAIL SITE DEVELOPMENT PLAN
SCALE: 1" = 10'



OVERALL GRADING AND DRAINAGE PLAN

SCALE: 1" = 30'

GRADING AND DRAINAGE NOTES

- ALL DISTURBED AREAS SHALL BE SODED W/ BAHIA SOD.
- COMPLY WITH FLORIDA DEPT. OF TRANSPORTATION ROADWAY & TRAFFIC DESIGN STANDARDS FOR THE FOLLOWING:
 TYPE "E" INLET = INDEX No. 232
 TYPE "C" INLET = INDEX No. 233
 TYPE "C" INLET = INDEX No. 232
 TYPE "I" INLET = INDEX No. 233
 TYPE "J" MANHOLE = INDEX No. 200
 TYPE "V" GUTTER INLET = INDEX No. 221
 MITERED END SECTION = INDEX No. 272
- ALL STORM DRAIN INLETS LOCATED IN VEHICULAR TRAFFIC AREAS SHALL RECEIVE A STEEL ANGLE GRATE SEAT. ALL GRATES SHALL BE TRAFFIC.
- SEE SHEET C001 FOR EROSION & SEDIMENTATION CONTROL.
- ALL CONSTRUCTIONS SHALL CONFORM TO AND SHALL BE INSTALLED AND CLEARED FOR SERVICE IN ACCORDANCE WITH THE ORANGE COUNTY STANDARDS UNLESS STATED OTHERWISE IN THE SPECIFICATIONS, OR ON THE PLANS.
- PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY LOCATION AND INVERTS OF EXISTING UTILITIES AT PROPOSED CROSSINGS AND POINTS OF CONNECTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY UTILITY CONFLICTS.
- SEE SHEETS C201/C202 FOR DETAILED GRADING & DRAINAGE PLAN.

EARTHWORK NOTES

- CONTRACTOR IS RESPONSIBLE FOR ALL EARTHWORK OPERATION IN ACCORDANCE WITH GEOTECHNICAL REPORT.
- ANY IMPORT FILL PLACED ON SITE SHALL BE SELECT MATERIAL HAVING A MAXIMUM OF 6% OR FINES AS DEFINED BY US SOIL CLASSIFICATION & GEOTECHNICAL REPORT.

LEGEND

FINISH GRADE	EXIST.	NEW
FLOW PATTERN	---	---
CONTOUR	100	100
STORM DRAIN INLET	■	■
MITERED END SECTION	■	■
STORM DRAIN LINE	SD	SD

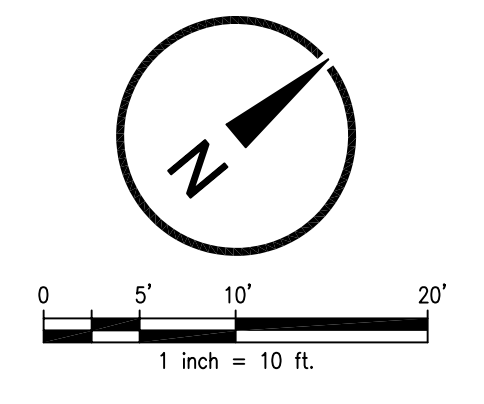
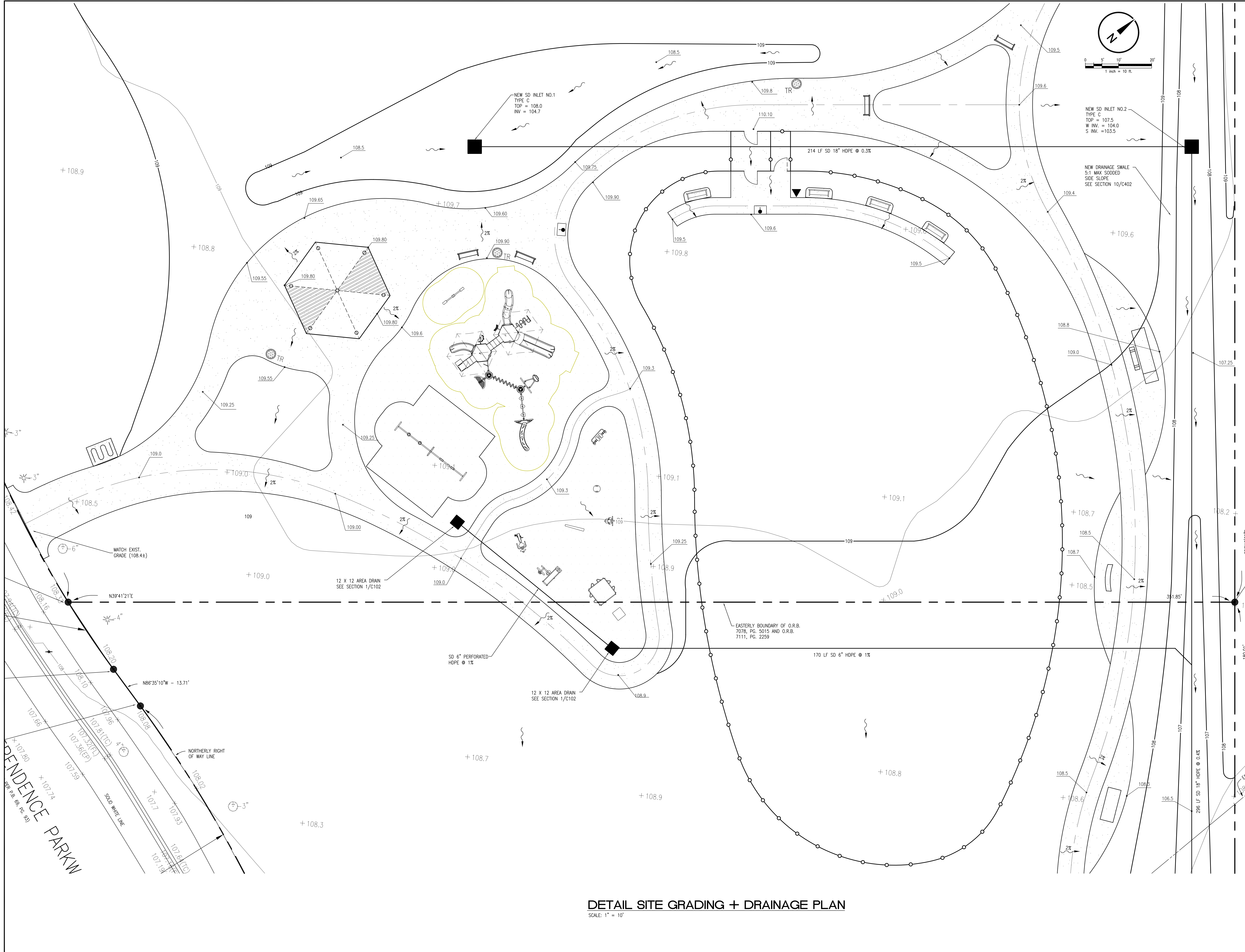
OVERALL DRAINAGE AND GRADING PLAN
NEW INDEPENDENCE PARK
OC CAPITAL PROJECTS
 ORANGE COUNTY, FL

DESIGN DEVELOPMENT 30% 8-15-14
90% SUBMITTAL 9-5-14
PER TRG 10-1-14
100% SUBMITTAL 10-8-14
REVISED PER DRC 10-23-14
BID AND PERMIT SET 10-30-14

Issue Date and Purpose
 Project Number: **1415**
 Drawn by: **DL TORSTYH**
 Checked by: **M KALAGHCHI**
C200
 141500000R

Seal: Majid Kalaghchi P.E. 41046

URBAN DESIGN PLANNING ENGINEERING
SKConsortium, Inc.
 1053 N. ORLANDO AVE., SUITE 3 • MAITLAND, FLORIDA 32751
 TELEPHONE 407-629-4288 • FACSIMILE 407-658-7080



Seal: Mojib Kaloghchi P.E. 41046

DETAIL GRADING + DRAINAGE PLAN
NEW INDEPENDENCE PARK
OC CAPITAL PROJECTS
 ORANGE COUNTY, FL

DESIGN DEVELOPMENT 30% 8-15-14
90% SUBMITTAL 9-5-14
PER TRG 10-1-14
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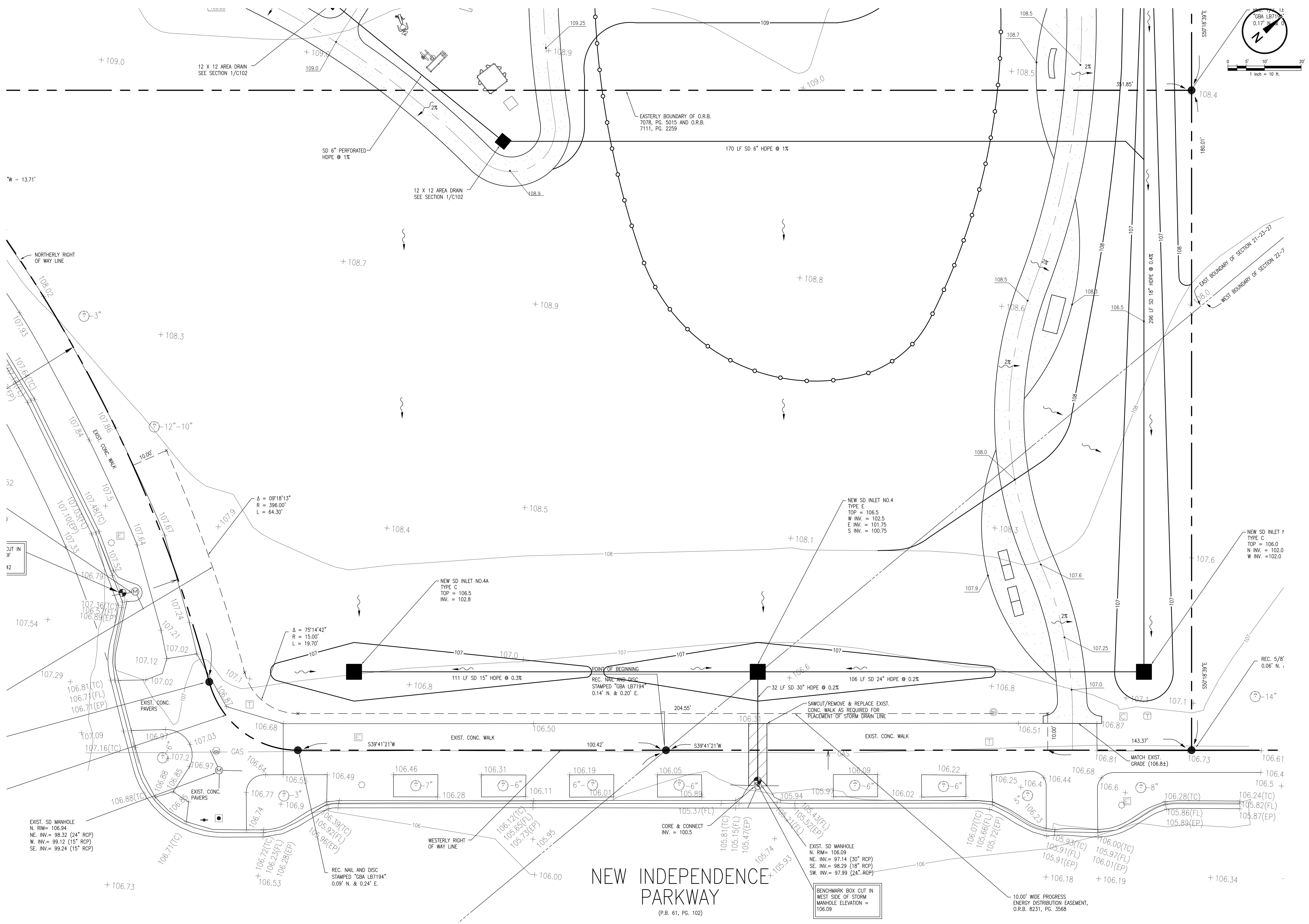
Issue Date and Purpose	Project Number
1415	
Drawn by: D. FORSYTH	Checked by: M. KALOGHCHI
File No: 1415000008	

DETAIL SITE GRADING + DRAINAGE PLAN
 SCALE: 1" = 10'

DETAIL GRADING + DRAINAGE PLAN
NEW INDEPENDENCE PARK
 OC CAPITAL PROJECTS
 ORANGE COUNTY, FL

DESIGN DEVELOPMENT 30% 8-15-14
BOX SUBMITTAL 9-5-14
PER TRG 10-1-14
100% SUBMITTAL 10-8-14
REVISED PER DRC 10-23-14
BID AND PERMIT SET 10-30-14

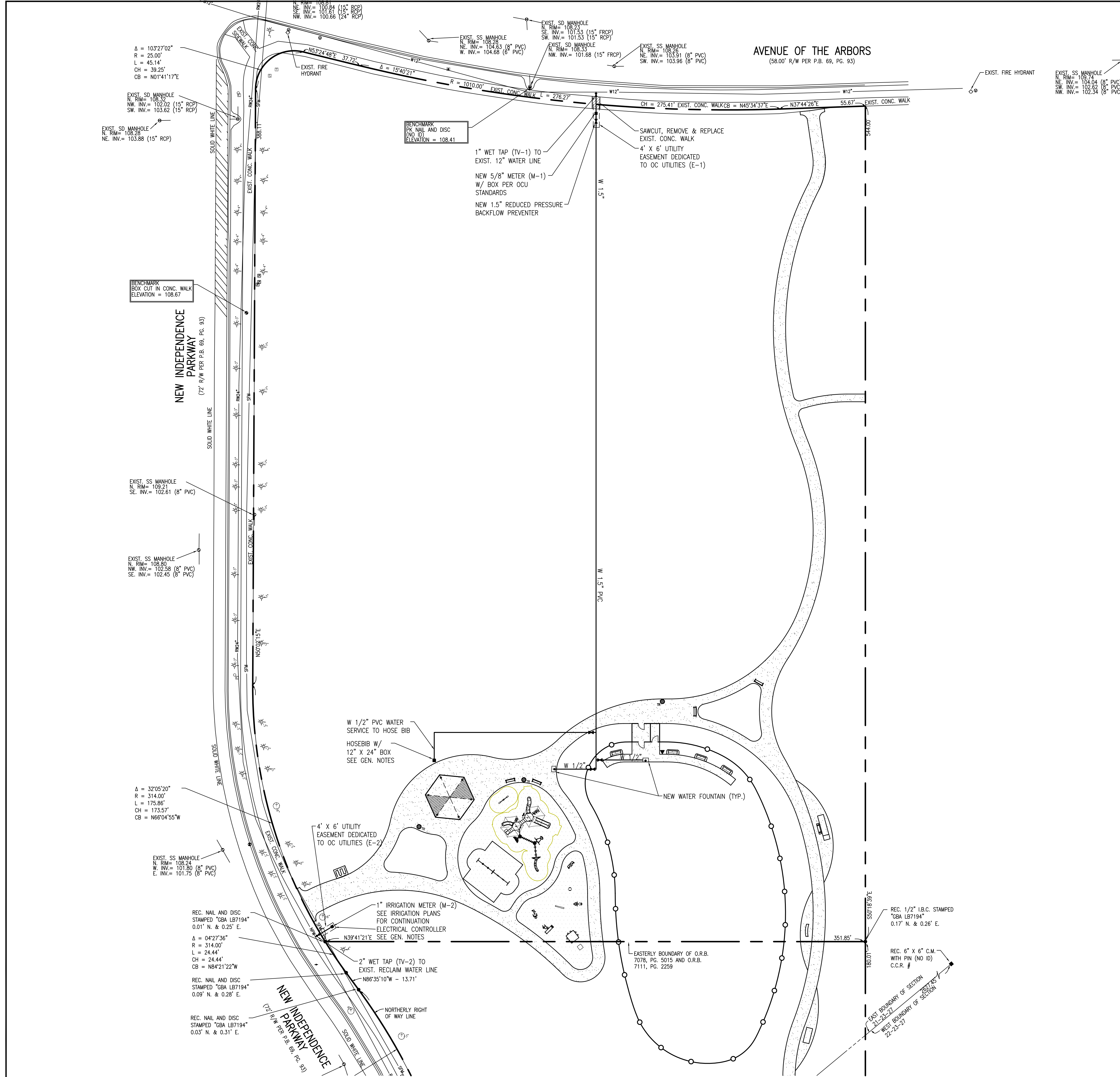
Issue Date and Purpose	1415
Project Number:	
Drawn by:	D. FORSYTH
Checked:	M. KALOGHCHI
File No:	C202
1415000008	



DETAIL SITE GRADING + DRAINAGE PLAN

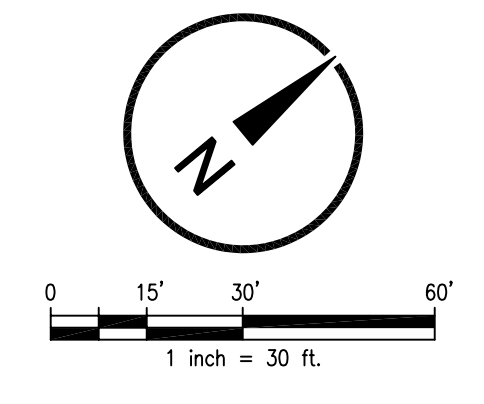
SCALE: 1" = 10'

NEW INDEPENDENCE PARKWAY
 (P.B. 61, PG. 102)



OCU UTILITIES NOTES

- THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING IN PROXIMITY OF WATER MAINS, WASTEWATER FORCE MAINS, GRAVITY MAINS, AND RECLAIMED WATER MAINS. MAIN LOCATIONS SHOWN ON PLANS MAY NOT BE EXACT. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING UTILITY LOCATIONS.
- SHOULD A PIPE EMERGENCY OCCUR, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OCU DISPATCH OPERATOR (407-836-2777) AND THE OCU INSPECTOR.
- THE CONTRACTOR SHALL NOTIFY THE OCU CONSTRUCTION DIVISION AT LEAST SEVEN DAYS PRIOR TO COMMENCEMENT OF THE CONSTRUCTION PROJECT BY CALLING (407) 254-9798.
- THE CONTRACTOR SHALL NOTIFY THE OCU CONSTRUCTION DIVISION AT LEAST 48 HOURS PRIOR TO ANY UTILITIES CONSTRUCTION BY CALLING (407) 254-9798.
- THE MATERIALS, PRODUCTS, AND CONSTRUCTION OF ALL UTILITIES CONNECTING TO THE OCU SYSTEM SHALL BE IN CONFORMANCE WITH THE ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL.
- ALL OCU MAINS AND FACILITIES WITHIN THE LIMITS OF THE PROJECT SHALL BE SUPPORTED AND PROTECTED AGAINST DAMAGE DURING CONSTRUCTION.
- THE CONTRACTOR, AT THE CONTRACTOR'S EXPENSE, SHALL IMMEDIATELY REPAIR ALL DAMAGES TO OCU MAINS AND FACILITIES, IF THE REPAIR IS NOT MADE IN A TIMELY MANNER, AS DETERMINED BY OCU, OCU MAY PERFORM REQUIRED REPAIRS AND CLEANUP. THE CONTRACTOR WILL BE CHARGED FOR ALL EXPENSES ASSOCIATED WITH THE REPAIR.
- THE CONTRACTOR SHALL ADJUST ALL EXISTING OCU MAINS AND FACILITIES IN CONFLICT WITH NEW GRADE, NEW OR ALTERED ROADWAYS, SIDEWALKS, DRIVEWAYS, OR STORM WATER IMPROVEMENTS. OCU FACILITIES TO BE ADJUSTED INCLUDE, BUT ARE NOT LIMITED TO PIPELINES, PUMP STATIONS, VALVE BOXES, AIR RELEASE VALVES, FIRE HYDRANTS, MANHOLE COVERS, AND METERS.
- ONLY OCU SHALL OPERATE OCU WATER, WASTEWATER, AND RECLAIMED WATER VALVES. THE CONTRACTOR SHALL COORDINATE VALVE OPERATION WITH THE OCU INSPECTOR. FOR OPERATION OF MAINS NOT OWNED BY OCU, IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE APPROPRIATE UTILITY REPRESENTATIVE.
- CONSTRUCTION ACTIVITIES SHALL NOT CAUSE INTERRUPTIONS IN WATER, WASTEWATER, OR RECLAIMED WATER SERVICE. THE CONTRACTOR SHALL COORDINATE PRE-APPROVED INTERRUPTIONS OF SERVICE WITH THE OCU INSPECTOR 7 WORKING DAYS IN ADVANCE.
- THE CONTRACTOR SHALL PROVIDE FOR BYPASSING AND/OR HAULING WASTEWATER DURING APPROVED INTERRUPTIONS OF WASTEWATER FLOWS AND CONNECTIONS. THE CONTRACTOR SHALL SUBMIT A BYPASS PLAN SIGNED AND SEALED BY A PROFESSIONAL ENGINEER TO OCU DEVELOPMENT ENGINEERING FOR APPROVAL PRIOR TO IMPLEMENTATION BY CONTRACTOR.
- ALL VALVES INSTALLED AS PART OF THIS CONSTRUCTION PROJECT SHALL REMAIN CLOSED DURING CONSTRUCTION. KEEP VALVES ON ALL WET TAPS CLOSED UNTIL CLEARED BY FDEP. DO NOT CONNECT NEWLY CONSTRUCTED WATER MAINS TO ANY EXISTING WATER MAINS UNLESS CLEARED BY FDEP AND OCU.
- THE CONTRACTOR SHALL PROVIDE A JUMPER ASSEMBLY WITH A BACKFLOW PREVENTER FOR MAKING TEMPORARY CONNECTIONS TO AN EXISTING POTABLE WATER SOURCE IN ORDER TO CHLORINATE AND FLUSH NEW WATER MAINS WITH POTABLE WATER. ANY TEMPORARY POTABLE WATER CONNECTIONS TO RECLAIMED WATER OR FORCEMAIN SHALL ALSO BE EQUIPPED WITH A BACKFLOW PREVENTER.
- FOR PVC PIPE THAT WILL BE OWNED AND MAINTAINED BY OCU, NO PIPE BENDING IS ALLOWED. THE MAXIMUM ALLOWABLE TOLERANCE FOR JOINT DEFLECTION IS 0.75 DEGREES (3-INCHES PER JOINT PER 20 FT STICK OF PIPE.) ALIGNMENT CHANGE SHALL BE MADE ONLY WITH SLEEVES AND FITTINGS.
- FOR NON-PVC PIPE THAT WILL BE OWNED AND MAINTAINED BY OCU, LONG RADIUS CURVES, EITHER HORIZONTAL OR VERTICAL, MAY BE INSTALLED WITH STANDARD PIPE BY DEFLECTIONS AT THE JOINTS. MAXIMUM DEFLECTIONS AT PIPE JOINTS, FITTINGS AND LAYING RADIUS FOR THE VARIOUS PIPE LENGTHS SHALL NOT EXCEED 75 PERCENT OF THE PIPE MANUFACTURER'S RECOMMENDATION.
- ALL UTILITIES (INCLUDING PUMP STATION IF APPLICABLE) LOCATED OUTSIDE PUBLIC RIGHT-OF-WAYS AND PUBLIC EASEMENTS SHALL BE PRIVATELY OWNED AND MAINTAINED.
- MAINTAIN A MINIMUM OF 3 FEET OF COVER OVER ALL PROPOSED WATER, WASTEWATER, AND RECLAIMED WATER LINES. PLEASE REFER TO THE FOLLOWING SECTIONS FROM THE 2007 OCU MANUAL: SECTION 2210, PART 4, A - WATER MAINS SECTION 2310, PART 5, B - GRAVITY MAINS SECTION 2311, PART 4, A - FORCE MAINS SECTION 2510, PART 6, A - RECLAIMED WATER MAINS.



ENGINEERING
 PLANNING
 DESIGN
 URBAN

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 TELEPHONE: 407-629-4288 • FACSIMILE: 407-656-7080

Seal: Majid Kalaghchi P.E. 41046

Asset Type	ID Number	UTILITIES Asset Number	UTILITIES Asset Coordinates			Pipe Invert Elevation	Well Bottom
			Northerly	Easterly	Elevation		
			Northerly	Easterly	Top Center		
TAPPING VALVE	TV-1						
TAPPING VALVE	TV-2						
METER	M-1						
METER	M-2						
UTILITY EASEMENT	E-1						
UTILITY EASEMENT	E-2						

GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY AND LOCATE ALL VERTICAL AND HORIZONTAL CONTROL POINTS PRIOR TO CONSTRUCTION. IF ANY DISCREPANCIES SHOULD BE FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SURVEYOR OF THE CONDITION IN WRITING PRIOR TO COMMENCING HIS CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL APPLY AND OBTAIN A R/W UTILIZATION PERMIT THROUGH ALL DISTURBED AREAS MUST BE SODDED W/ BAHIA.
- MAINTENANCE OF TRAFFIC SHALL CONFORM WITH LATEST EDITION OF FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS. CONTRACTOR IS RESPONSIBLE FOR PLACEMENT OF ALL NECESSARY TRAFFIC CONTROL DEVICES INCLUDING BARRICADES, FLASHING LIGHTS, TEMPORARY SIGNAGE, MARKINGS, ETC.
- A 48-HOUR NOTICE WILL BE GIVEN TO THE ENGINEER OF RECORD AND OCU CONSTRUCTION DEPT. (407-254-9798) PRIOR TO CONSTRUCTION & TESTING OF ANY UTILITY SHOWN ON THESE PLANS.
- WHEN TRENCH EXCAVATION EXCEEDS (5) FEET IN DEPTH:
 - CONTRACTOR SHALL CONFORM TO OSHA STD. 29CFR. SECTION 1926.650.
 - THE CONTRACTOR SHALL PROVIDE WRITTEN ASSURANCE OF COMPLIANCE WITH C. TRENCH SAFETY SYSTEM SHALL BE BY THE CONTRACTOR.
- ALL UTILITIES CONSTRUCTION CONNECTING TO THE OCU UTILITY SYSTEM SHALL CONFORM TO ORANGE COUNTY STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL DATED FEB. 2011.
- THE CONTRACTOR SHALL PERFORM HYDROSTATIC TESTING OF ALL NEWLY-INSTALLED WATER DISTRIBUTION SYSTEM IN ACCORDANCE WITH AWWA STANDARD C600 FOR DUCTILE-IRON PIPE. TESTING SHALL BE IN ACCORDANCE WITH AWWA MANUAL M23 FOR
 - CONTRACTOR SHALL DISINFECT ALL SECTIONS OF THE WATER DISTRIBUTION THEREOF FROM THE LOCAL WATER UTILITY, ENGINEER OF RECORD, AND FDEP. PRIOR TO PLACING IN SERVICE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COPIES OF THE FDEP WATER AND SEWER PERMITS FROM THE OWNER AND MAINTAIN THEM ON THE JOB SITE AT ALL TIMES. DISINFECTION OF THE WATER DISTRIBUTION SYSTEM SHALL BE IN ACCORDANCE WITH THE FDEP WATER PERMIT, AND RECEIVE APPROVAL PERFORMED IN ACCORDANCE WITH AWWA 651 "DISINFECTING WATER MAINS."
 - ALL POTABLE WATER MAIN MUST BEAR THE "NSF" LOGO. WATER MAIN SHALL BE SCH. 40 PVC OR SDR21
 - VARIANCES FROM THE SEPARATION DISTANCES LISTED BETWEEN WATER AND SANITARY/STORM SEWERS/RECLAIM WATER LISTED IN OCU STANDARDS MUST COMPLY WITH 62-555--314(5). FAC AND MUST BE APPROVED INDIVIDUALLY BY BOTH
 - A MINIMUM OF 3' OF COVER SHALL BE MAINTAINED OVER ALL WATER MAINS.
 - MAGNETIC TAPE AND LOCATING WIRE SHALL BE INSTALLED WITH ALL NON METALLIC
 - CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES PRIOR TO ANY CONSTRUCTION ACTIVITY FOR DIG PERMITS, ELECTRICAL PERMITS OR OTHER PERMITS AS APPLICABLE. CONTRACTOR IS TO COORDINATE FULLY WITH UTILITY COMPANIES ON EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO EXCAVATION. THE FOLLOWING COMPANIES SHALL BE CONTACTED BY THE CONTRACTOR:
 - DUKE ENERGY CALL SUNSHINE 3300 EXCHANGE PLACE LAKE MARY FL 32746 PH: 407-342-9291
 - CALL SUNSHINE PH: 1-800-432-2770
- NEW OR RELOCATED UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET AND PREFERABLY 10 FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE TYPE SANITARY SEWER, STORM SEWER, WASTEWATER FORCEMAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, FAC; THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND THE GRAVITY TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.
 - NEW OR RELOCATED UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY OR VACUUM TYPE SANITARY SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES AND PREFERABLY 12 INCHES ABOVE OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
 - NEW OR RELOCATED UNDERGROUND WATER MAINS CROSSING ANY EXISTING EXISTING OR PROPOSED PRESSURE TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCEMAIN OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.

AT THE UTILITY CROSSINGS DESCRIBED ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPE LINE. ALTERNATIVELY AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM TYPE SANITARY SEWERS OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, FAC, AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, FAC.

ALL PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTED UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. THE COST FOR SUCH RESTORATION SHALL BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.

SERVICE MATERIAL (CORP. STOPS, CURB STOPS, ETC.) FOR 3/4", 1", AND 2" SERVICES SHALL BE BRASS COMPRESSION FITTINGS. FLARED FITTINGS ARE ACCEPTABLE UNDER CONTROLLED CONDITIONS. AN AWWA (CO) THREADING IS REQUIRED ON ALL 3/4" AND 1" CORPORATION STOPS USED WITH DIRECT PIPE TAPPING ON DUCTILE IRON PIPE OR WITH SERVICE CLAMPS ON PVC PIPE. INSTALLATION OF 2" SERVICES REQUIRE SERVICE CLAMPS AND TO ACCOMMODATE 1 1/2" OR 2" METERS; 2" BALL ANGLE METER VALVES (CTS X FLANGE) WITH SLOTTED HOLES ON THE FLANGE FACE ARE REQUIRED. PADLOCK WINGS MUST BE INCLUDED ON EACH CURB STOP OR BALL METER VALVE.

- ALL WATER FOUNTAINS SHALL RECEIVE 1/2" SERVICE CONNECTIONS.
- ALL WATER FOUNTAINS SHALL HAVE A DRY WELL FOR WASTE DISCHARGE IN ACCORDANCE WITH DETAIL 5/C401
- PROVIDE 12"x24" (MIN.) PLASTIC/CONCRETE BOX FOR HOSE BIBB ASSEMBLY. VERIFY BOX TO ENSURE PROPER OPERATION OF HOSE BIBB. ALL HOSE BIBB ASSEMBLY WILL BE EQUIPPED WITH VACUUM BREAKER.
- CONTRACTOR SHALL EMPLOY A REGISTERED ELECTRICAL SUBCONTRACTOR AND BE RESPONSIBLE FOR EXTENSION OF POWER TO THE CONTROLLER.

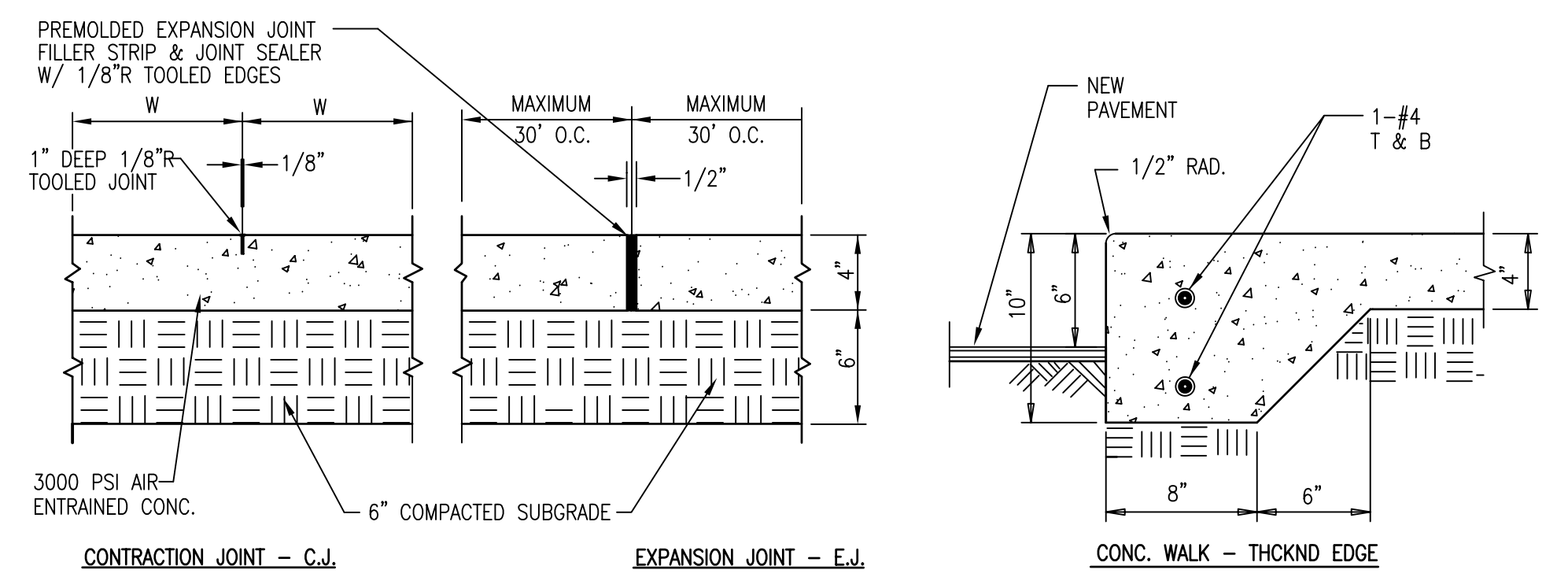
LEGEND

	EXIST	NEW
WATER LINE	—W—	—W—
SANITARY SEWER LINE	—SS—	
FORCE MAIN	—FM—	
POWER POLE	⊙ PP	
WATER VALVE	⊙	⊙
CLEAN-OUT	⊙	
SANITARY SEWER MANHOLE	⊙	
FIRE HYDRANT	⊙ FH	
OVERHEAD POWER LINE	—OHL—	
BURIED TELEPHONE LINE	—BTL—	

DESIGN DEVELOPMENT 30% 8-15-14
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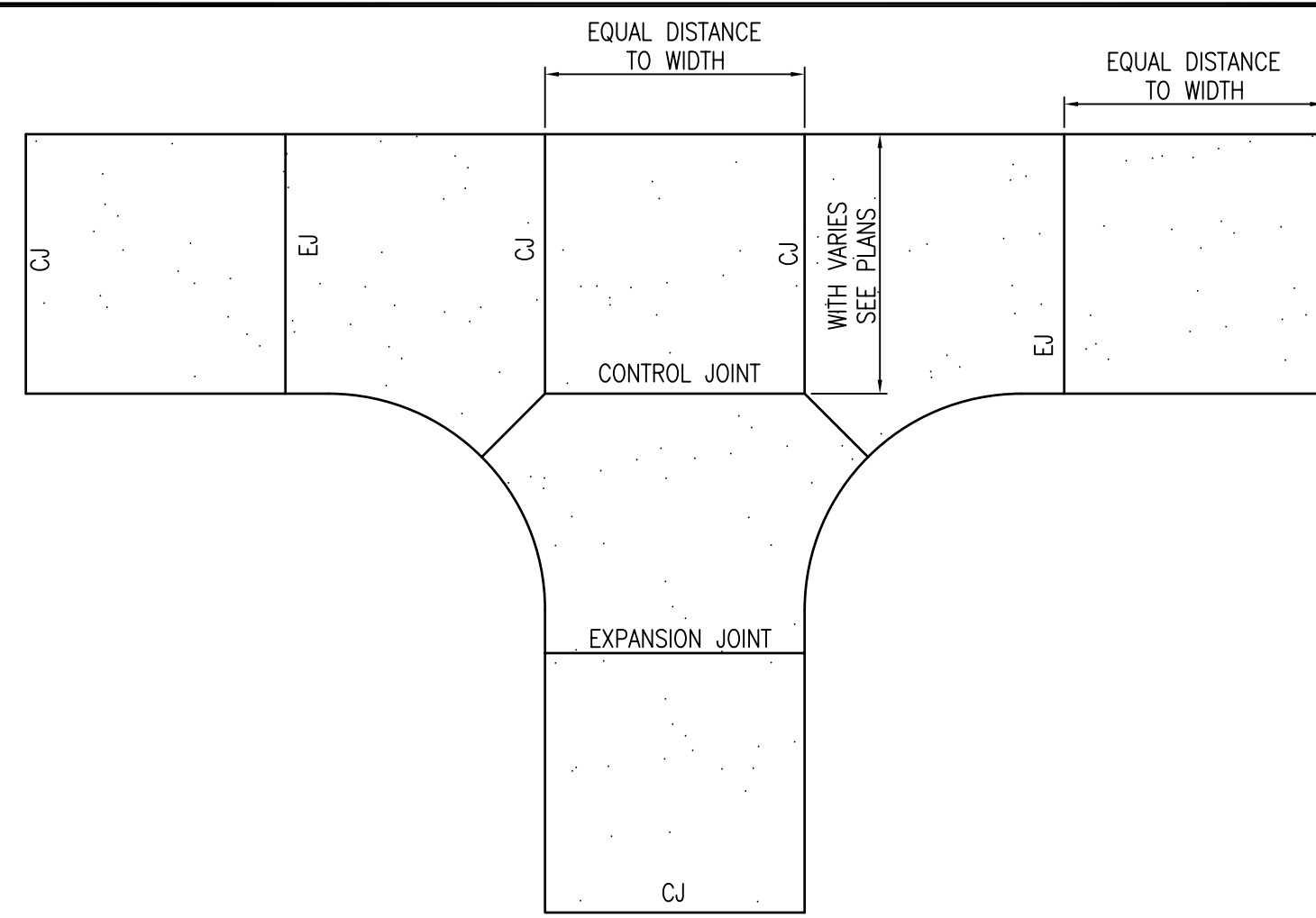
Issue Date and Purpose
 Project Number: **1415**

Drawn by: J. POSNITH
 Checked by: M. KALAGHCHI
 File No: **C300**
 141500000

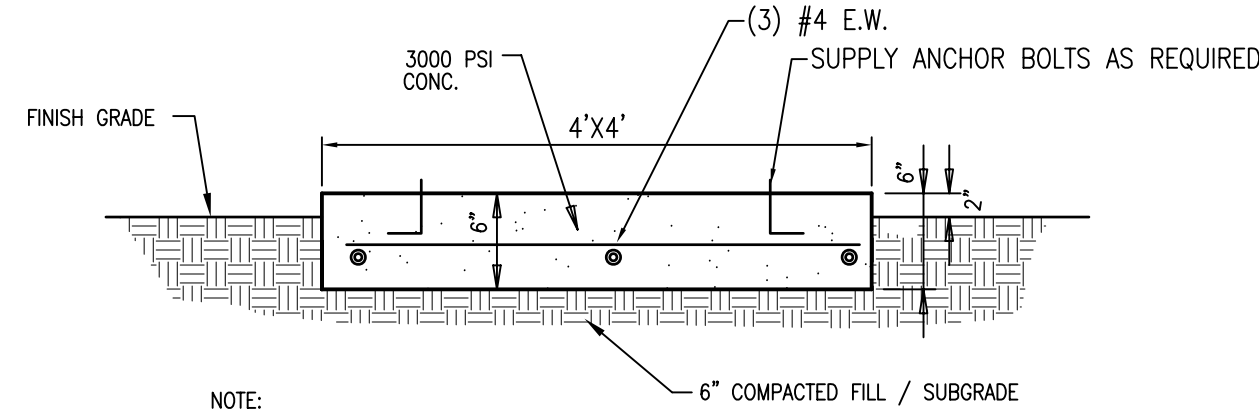


- NOTES:
1. A THICKENED EDGE SHALL BE PROVIDED BETWEEN SIDEWALK AND DRIVEWAYS OR PARKING LOT.
 2. SLOPE CONC. SIDEWALKS AWAY FROM BUILDINGS TO PROVIDE POSITIVE DRAINAGE.
 3. PROVIDE 2% CROSS SLOPE ON CONC. WALKS TYP.
 4. PROVIDE CONTROL JOINTS @ INTERVALS EQUAL TO SIDEWALK WIDTH (W).
 5. PROVIDE PREMOLDED EXPANSION JOINT WHERE CONC. WALK ABUTS BLDG., POLES, AND OTHER CONC. WALKS.
 6. PROVIDE LIGHT BROOM FINISH PERPENDICULAR TO WALK EDGES.

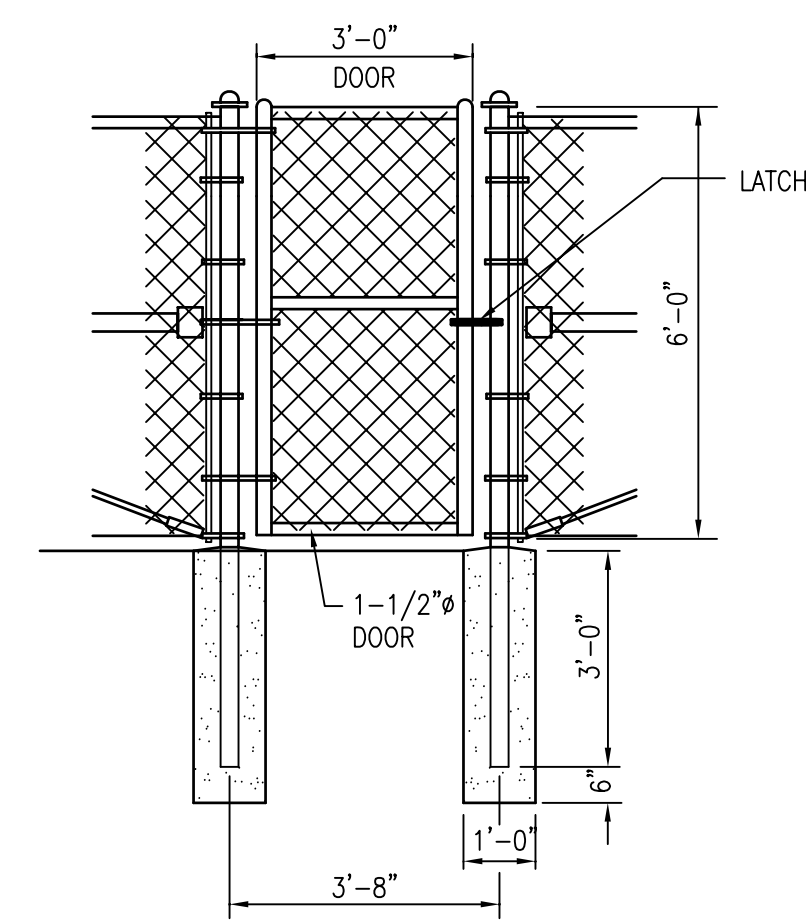
1 CONCRETE SIDEWALK DETAIL
C401 1-1/2"=1'-0"



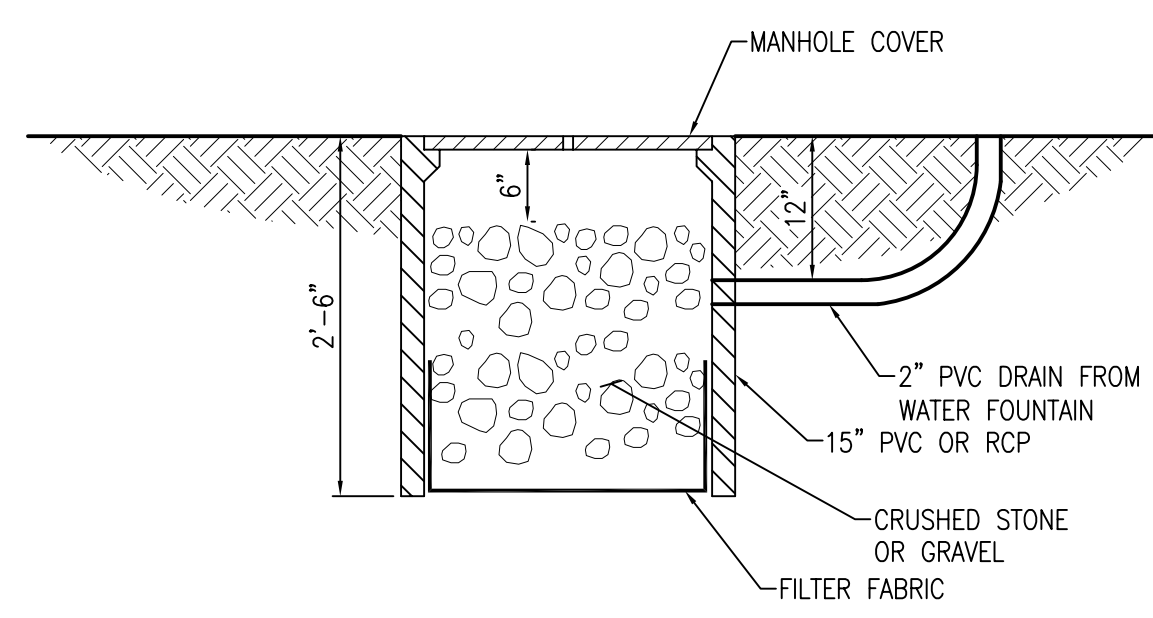
2 TYPICAL CONNECTION & JOINT LAYOUT @ WALK INTERSECTIONS
C401 NTS



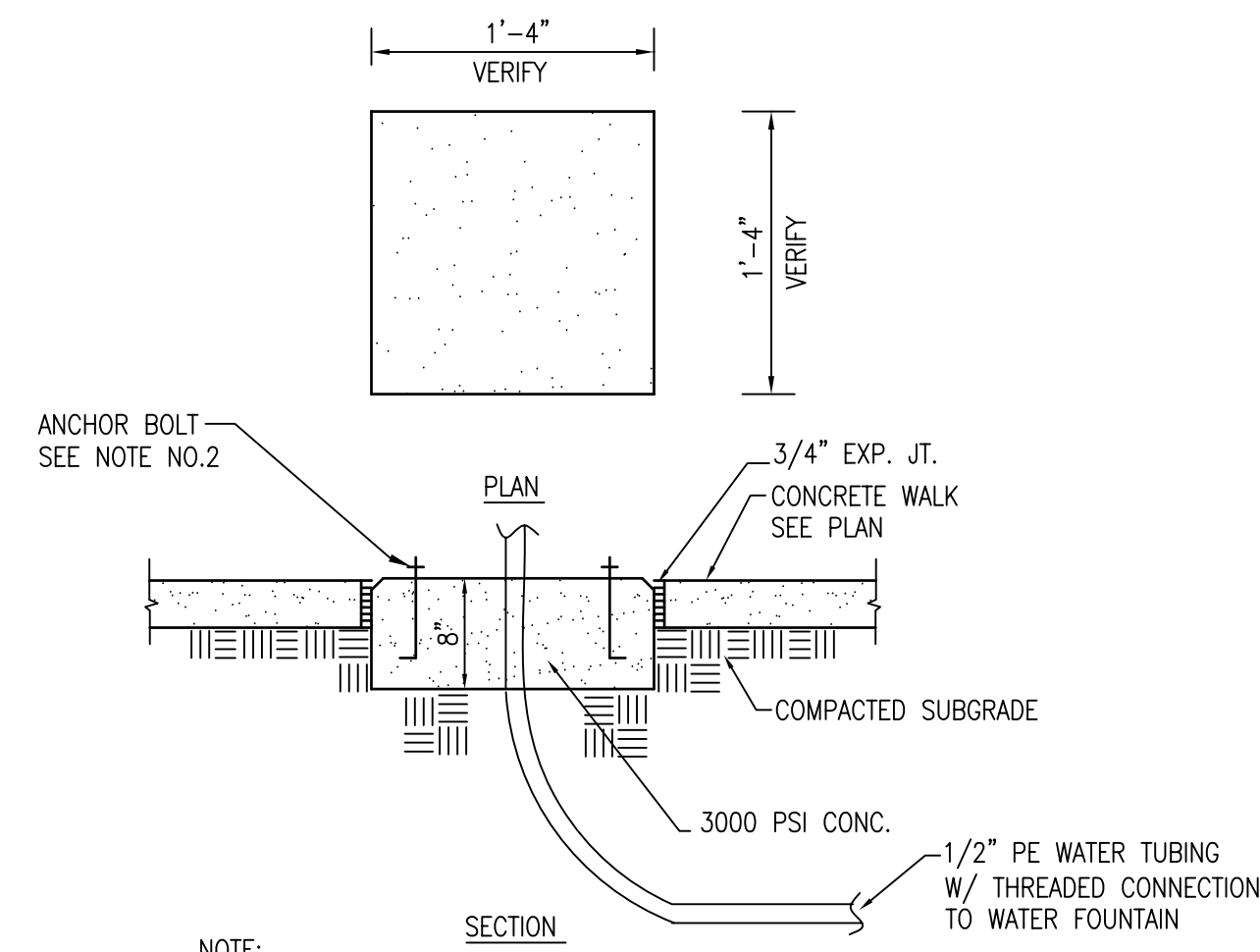
3 TRASH RECEPTACLE PAD
C401 3/4"=1'-0"



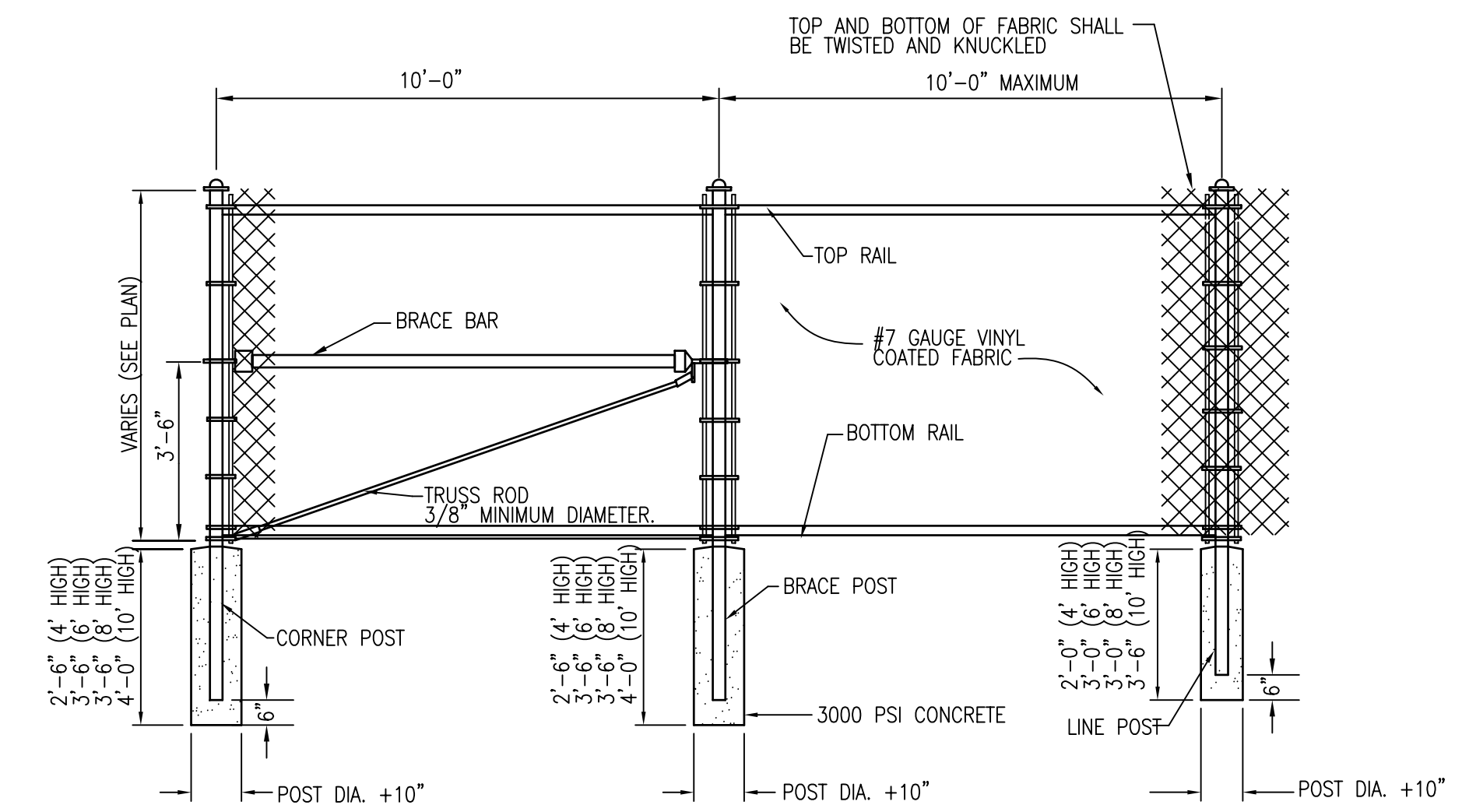
4 SINGLE GATE DETAIL
C401 3/8"=1'-0"



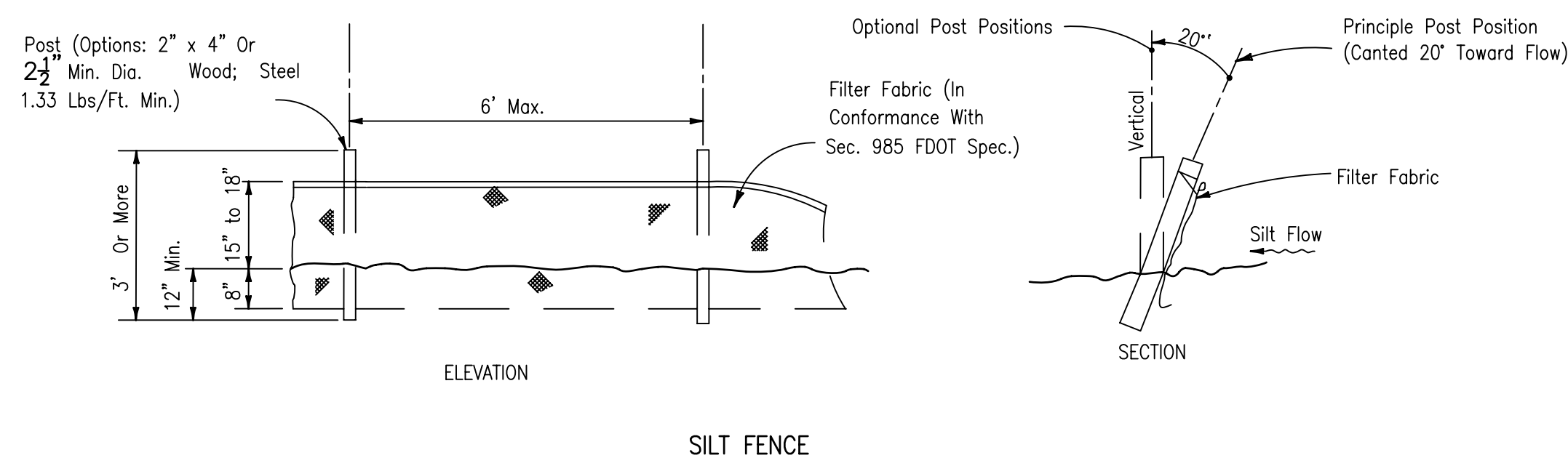
5 DRY WELL FOR WATER FOUNTAIN
C401 3/4"=1'-0"



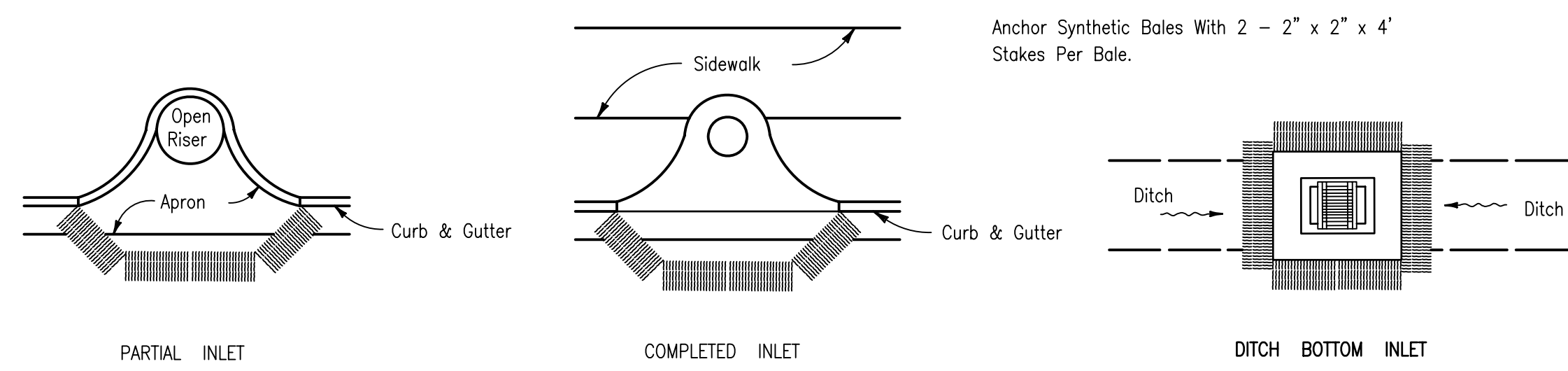
7 CONC. PAD FOR BENCHES/TABLES
C401 NTS



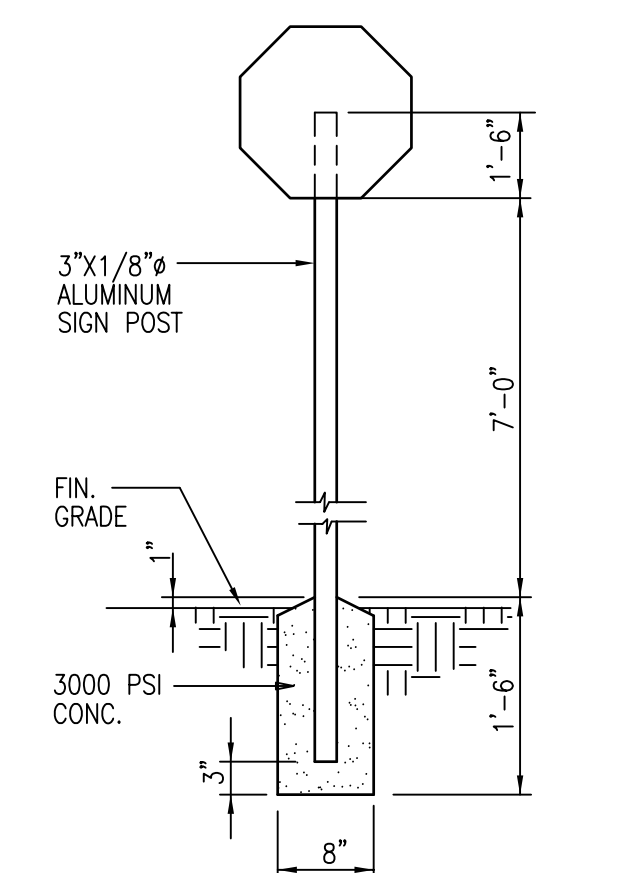
8 CHAIN LINK FENCE DETAIL
C401 3/8"=1'-0"



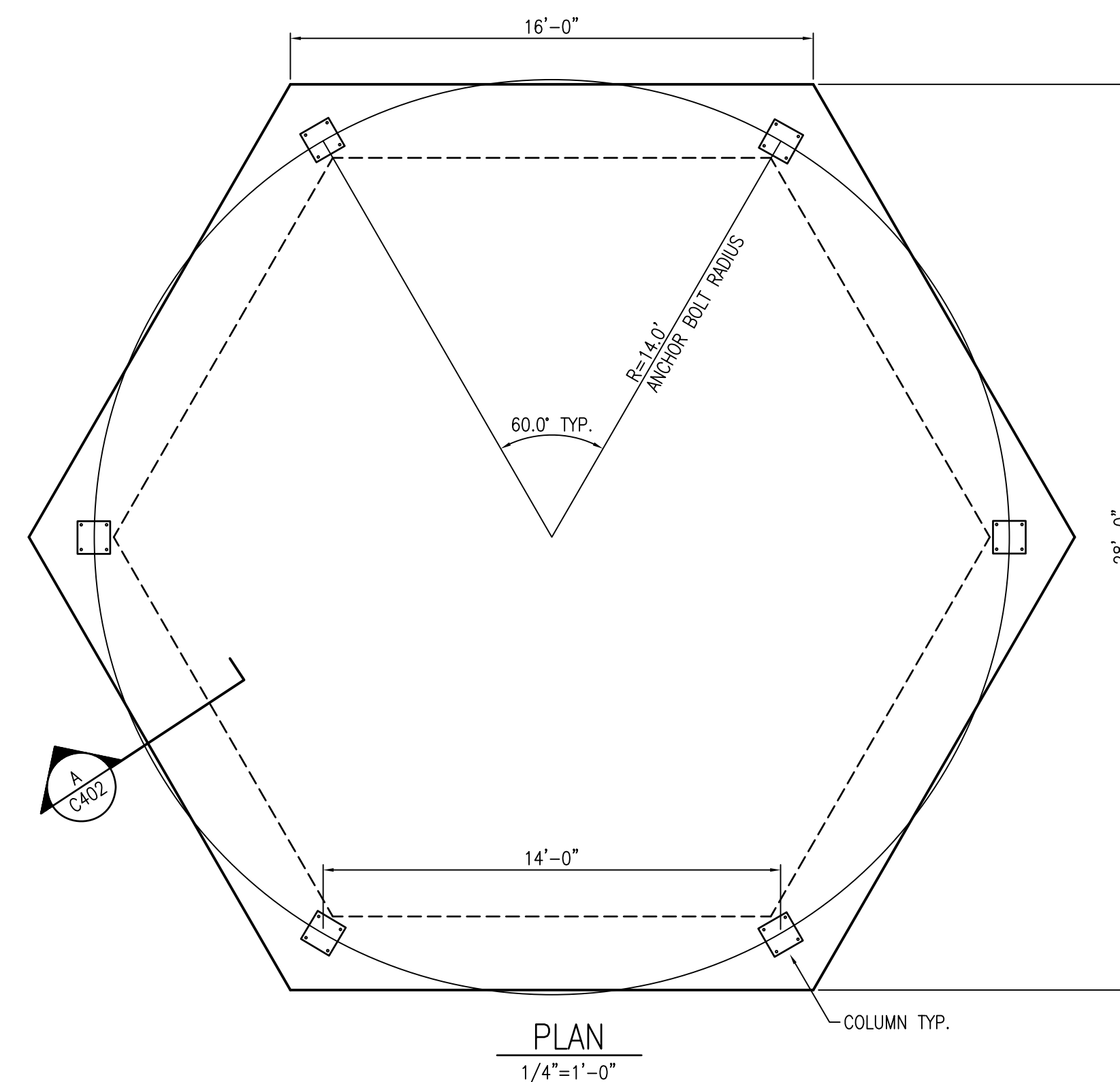
SILT FENCE



9 EROSION CONTROL DETAILS
C401 NTS



11 TYP. SIGN POST
C401 3/4"=1'-0"



GENERAL NOTES:

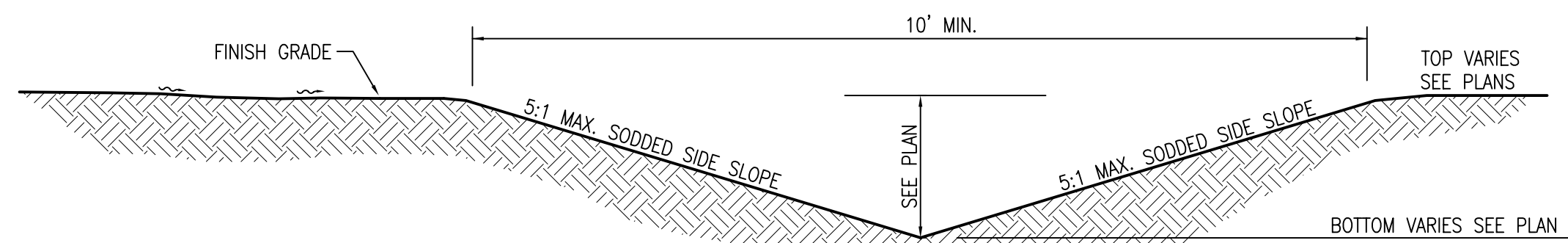
1. CONC. PAD DIMENSION TO BE VERIFIED PRIOR TO PLACEMENT OF CONCRETE.
 2. ANCHOR BOLT SIZE & SPACING PER SHELTER MANUFACTURER.
 3. CONCRETE SHALL BE 3000 PSI WITH SLUMP RANGE OF 4" ±1".
 4. THE FOUNDATION HAS BEEN DESIGNED ASSUMING A SOIL BEARING PRESSURE OF 2000 PSI.
 5. THE SUBGRADE SHALL BE COMPACTED TO 95% OF SOIL'S MAX. DENSITY.
 6. ALL STEEL REINFORCING SHALL BE GRADE 60.
 7. CONC. SHALL HAVE LIGHT BROOM FINISH.
- DESIGN BASIS
1. ICON SHELTERS SYSTEMS INC. MODEL NO. CX32M-P5 1-800-748-0985 LOCAL REPRESENTATIVE: SITE HORIZONS 407-947-6318 MLANGLEYS@CFL.RR.COM
 2. CONTRACTOR SHALL SUBMIT CERTIFIED FABRICATION SHOP DRAWINGS FOR REVIEW AND PERMITTING.
 3. COLOR TO BE SELECTED BY OC PARKS
 4. PER FLORIDA BUILDING CODE 2010 EDITION ULTIMATE DESIGN WIND LOAD=130 MPH (FIG. 1609C) RISK CATEGORY 1 (SCREEN WALLS, ENCLOSURE) NOMINAL DESIGN WIND LOAD = 101 MPH (TABLE 1609.3.1 WIND EXPOSURE: C
 5. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED FOR DESIGN & CONSTRUCTION OF FOUNDATION SYSTEM IF AN APPROVED EQUAL SHELTER IS UTILIZED.

12 PAVILION FOUNDATION PLAN
C401 NOT TO SCALE

THESE FOUNDATION LOADS ARE FOR ESTIMATING PURPOSE ONLY. THE ACTUAL LOADS WILL BE DETERMINED IN THE FINAL FOUNDATION PLANS TO BE SUBMITTED BY MANUFACTURER.

LOADS TO FOUNDATION (KIP, UNIFORM)	FOUNDATION LOADS			
	AXIAL (EX)	AXIAL (FY)	AXIAL (FZ)	AXIAL (M2)
DL	0.89	0.00	0.02	-1.28
SL	2.43	-0.01	0.11	-4.53
W-UPLIFT	-1.82	0.22	-0.41	31.50
W-FY	-1.73	-0.44	-0.08	3.94
W-FZ	-1.82	0.22	-0.41	31.50
E-FY	-0.01	-0.14	0.00	-10.82
E-FZ	-0.08	0.00	-0.13	10.15

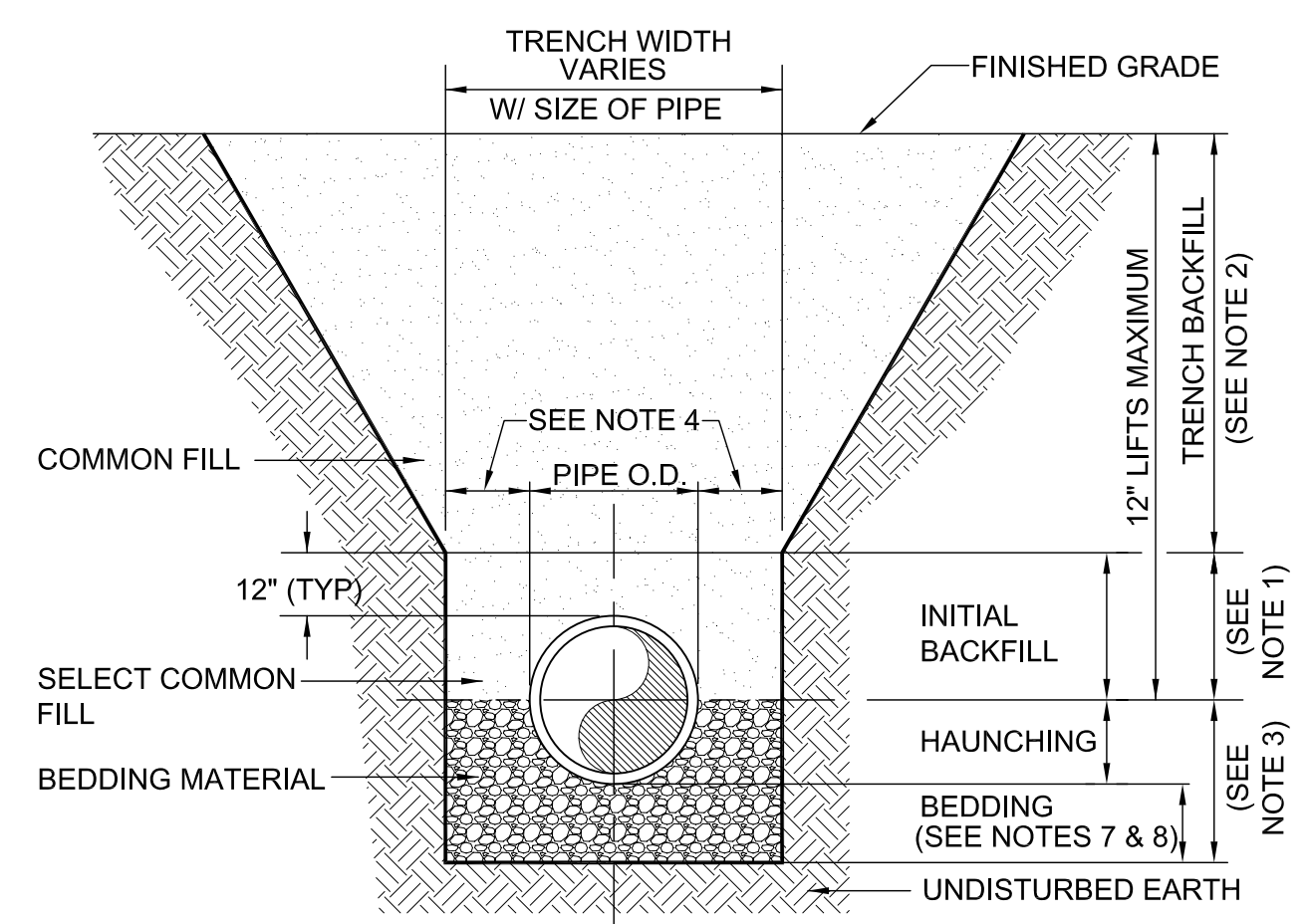
DEFINITIONS:
 EX = SERVICE LEVEL DEAD LOAD REACTION WITH THE GREATEST AXIAL LOAD
 FY = SERVICE LEVEL DEAD LOAD REACTION WITH THE GREATEST AXIAL LOAD
 FZ = SERVICE LEVEL DEAD LOAD REACTION WITH THE GREATEST UPLIFT LOAD
 UPLIFT = SERVICE LEVEL DEAD LOAD REACTION WITH THE GREATEST MAGNITUDE OF UPLIFT
 FY = SERVICE LEVEL DEAD LOAD REACTION WITH THE GREATEST SHEAR VALUE ACTING IN THE X-DIRECTION AT THE X-SHEAR LINE
 FZ = SERVICE LEVEL DEAD LOAD REACTION WITH THE GREATEST MAGNITUDE OF SHEAR IN THE X-DIRECTION
 E-FY = SERVICE LEVEL EARTHQUAKE LOAD REACTION WITH THE GREATEST MAGNITUDE OF SHEAR IN THE LOCAL Y-DIRECTION
 E-FZ = SERVICE LEVEL EARTHQUAKE LOAD REACTION WITH THE GREATEST MAGNITUDE OF SHEAR IN THE LOCAL Z-DIRECTION



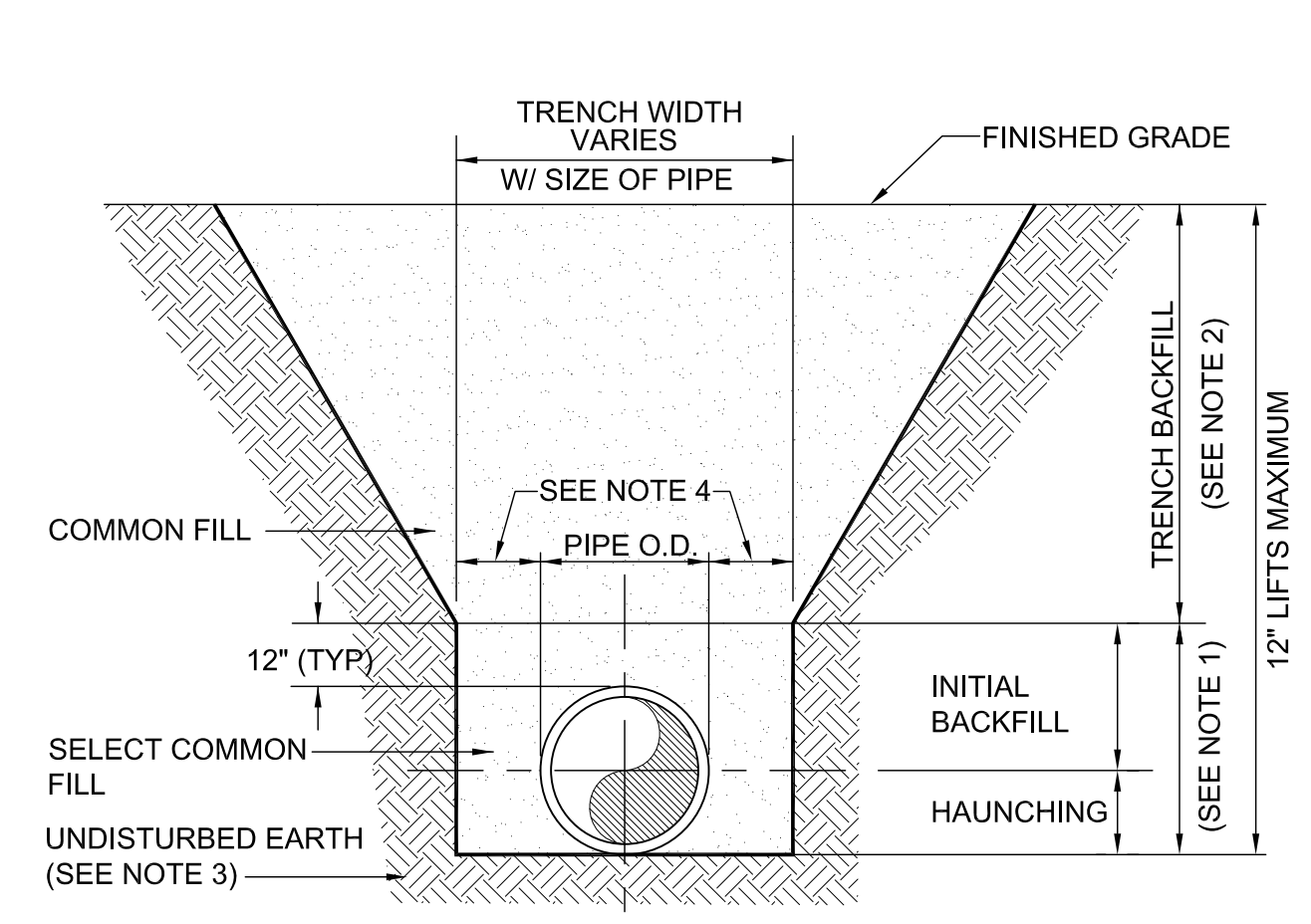
10 SWALE SECTION
C401 NOT TO SCALE

Seal: Majid Kalaghchi P.E. 41046

DESIGN DEVELOPMENT 30% 8-15-14
90% SUBMITTAL 9-5-14
PER TRG 10-1-14
100% SUBMITTAL 10-8-14
REVISED PER DRC 10-23-14
BID AND PERMIT SET 10-30-14



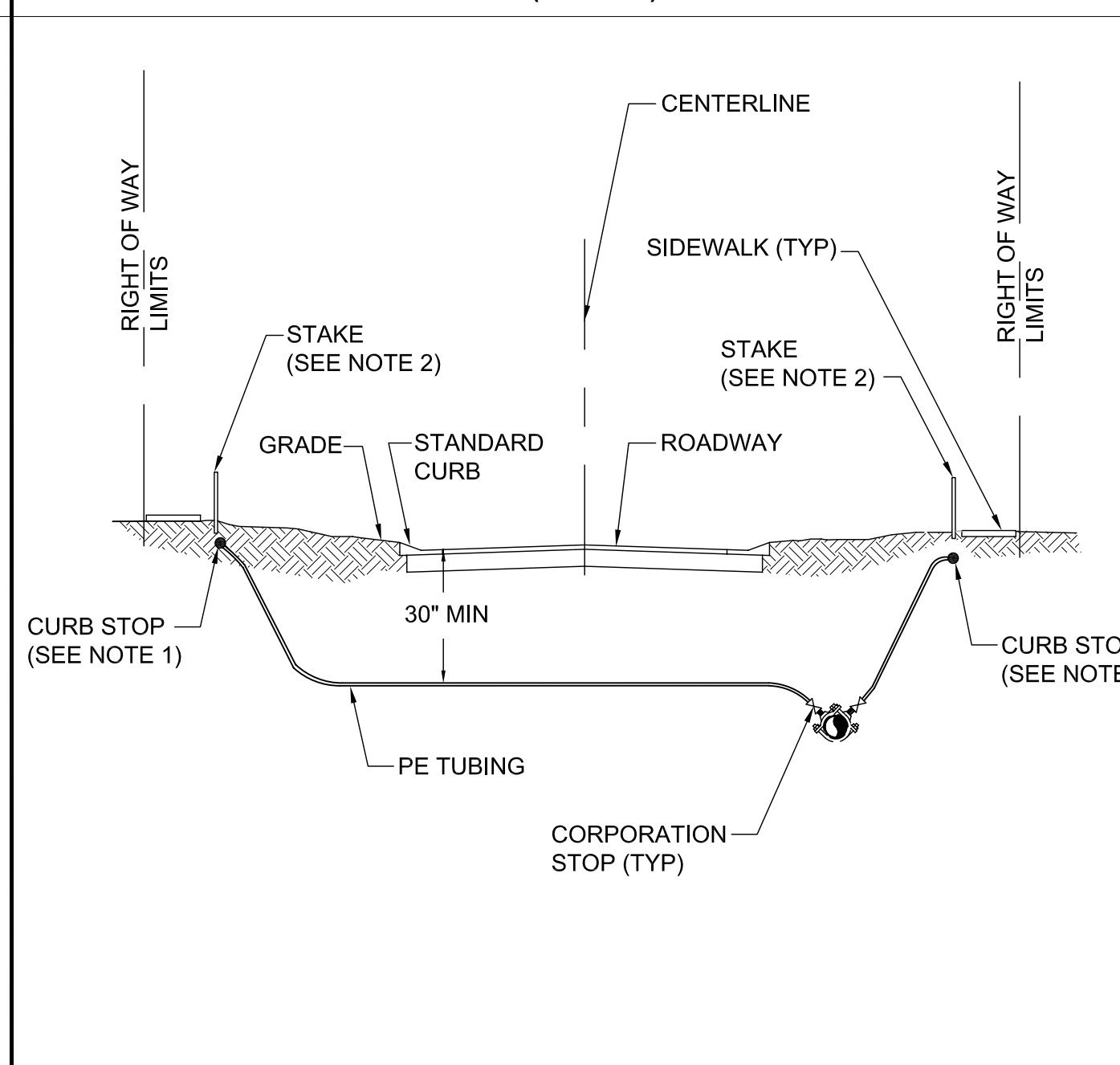
- NOTES:
- INITIAL BACKFILL: SELECT COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
 - TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
 - TYPE A BEDDING MATERIAL SHALL CONFORM TO FDOT NO. 57 AGGREGATE.
 - 15" MAX. (12" MIN.) FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX. (12" MIN.) FOR PIPE DIAMETER 24" AND LARGER.
 - WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
 - ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
 - BEDDING DEPTH SHALL BE 4" MINIMUM FOR PIPE DIAMETER UP TO 12" AND 6" MINIMUM FOR PIPE DIAMETER 16" AND LARGER.
 - DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE. UTILITIES SHALL DETERMINE IN THE FIELD REQUIRED REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION.
 - FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN ORANGE COUNTY RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF R/W UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.



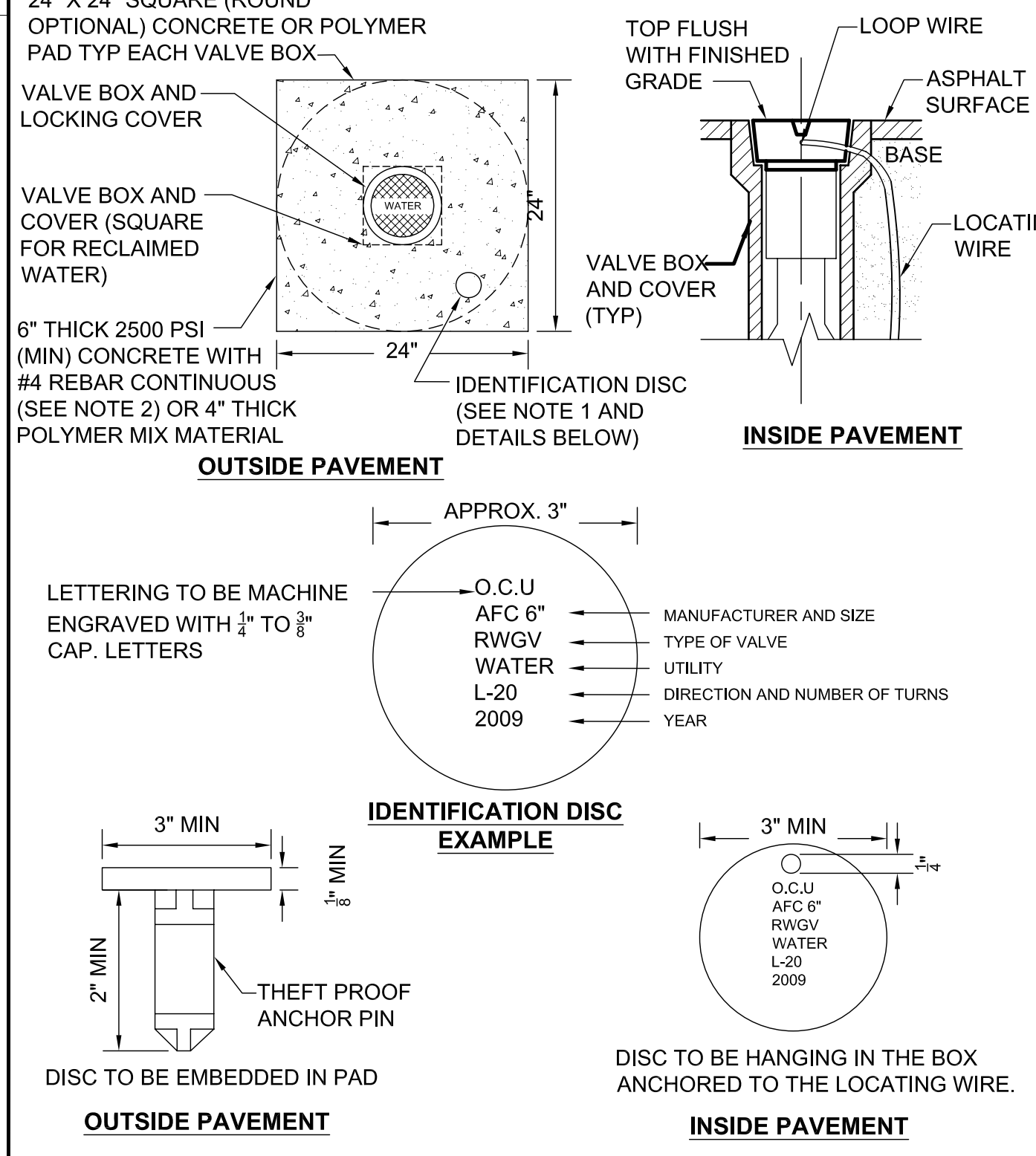
- NOTES:
- INITIAL BACKFILL AND HAUNCHING: SELECT COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
 - TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
 - PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE A BEDDING AND TRENCHING DETAIL MAY BE REQUIRED AS DIRECTED BY UTILITIES.
 - 15" MAX. (12" MIN.) FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX. (12" MIN.) FOR PIPE DIAMETER 24" AND LARGER.
 - WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
 - ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
 - FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN ORANGE COUNTY RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF R/W UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.

TYPE	PIPE SIZE									
	4"	6"	8"	10"	12"	16"	20"	24"	30"	36"
90° BEND	25	36	46	55	64	65	77	89	105	120
45° BEND	10	15	19	23	26	27	32	37	44	50
22-1/2° BEND	5	8	9	11	13	13	15	18	21	24
11-1/4° BEND	3	4	5	6	8	7	8	9	10	12
PLUG OR BRANCH OF TEE	53	74	97	117	135	138	166	194	231	265
VALVE	27	38	49	59	68	69	83	97	116	133
REDUCER	VARIES BY SIZE; TO BE DETERMINED BY THE DESIGN ENGINEER.									

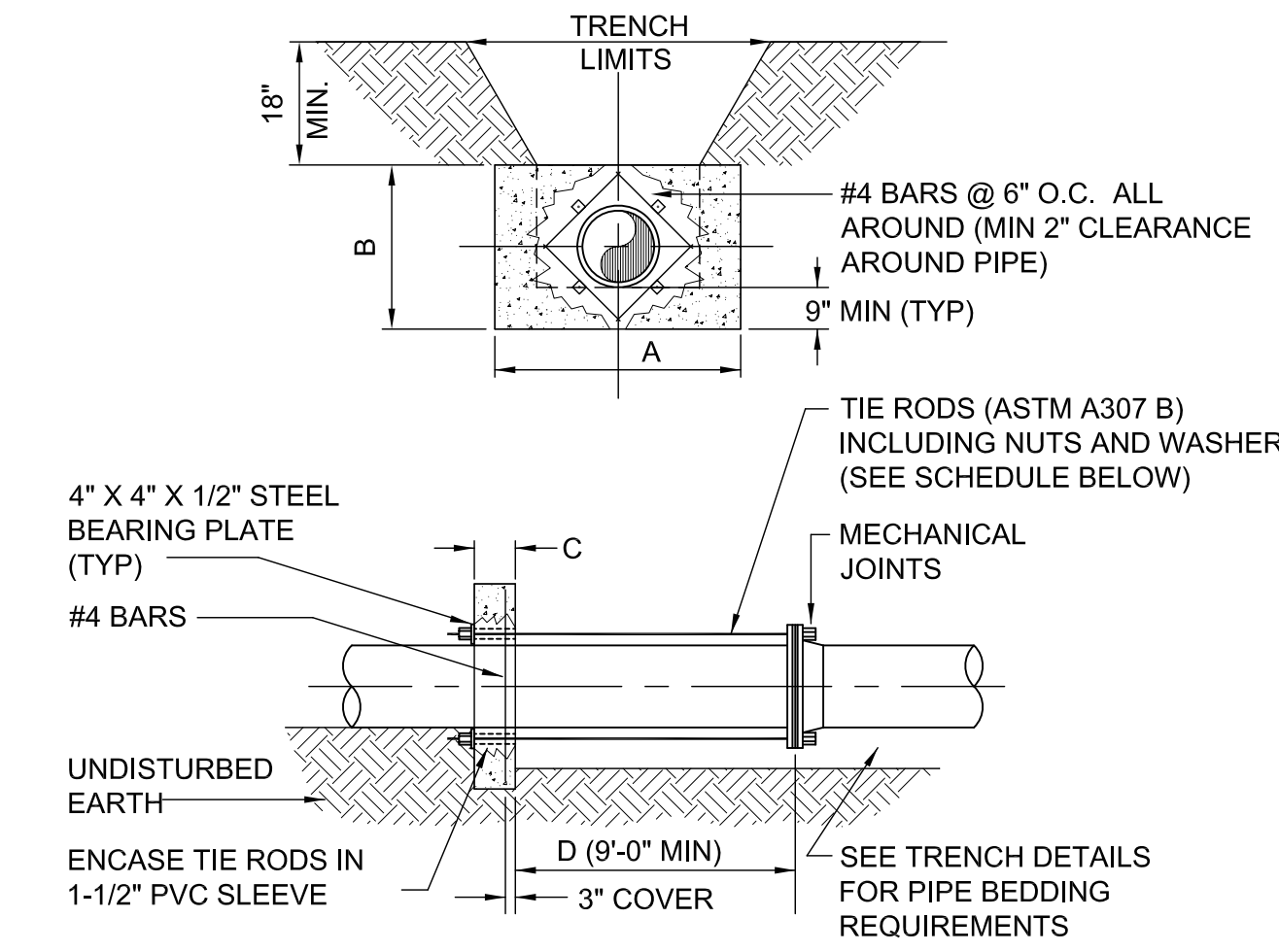
- NOTES:
- FITTINGS SHALL HAVE RESTRAINED JOINTS UNLESS OTHERWISE INDICATED.
 - INSTALL FULL LENGTH JOINTS WITH TOTAL LENGTH EQUAL TO OR GREATER THAN LENGTH SHOWN IN THE TABLE.
 - WHERE TWO OR MORE FITTINGS ARE IN SERIES, SELECT FITTING RESTRAINT LENGTH THAT YIELDS THE LONGEST RESTRAINT DISTANCE.
 - ALL INLINE VALVES SHALL BE RESTRAINED.
 - WHERE INTERNAL RESTRAINED JOINTS ARE USED, THE ENTIRE BELL SHALL BE PAINTED RED.
 - LENGTHS SHOWN IN THE TABLE WERE CALCULATED IN ACCORDANCE WITH PROCEDURES OUTLINED IN "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" GUIDELINES PUBLISHED BY DIPRA, USING THE ASSUMPTIONS SHOWN BELOW:
- WORKING PRESSURE: 150 PSI
SOIL DESIGNATION: SM (SAND SILT)
LAYING CONDITIONS: 3
DEPTH OF COVER: 3 FT
SAFETY FACTOR: 1.5
CONVERSION FACTOR FOR PVC PIPE: 1.25
- THE DESIGN ENGINEER SHALL INCREASE THE VALUES IN THE TABLE AS WARRANTED BY SITE-SPECIFIC SOIL DESIGNATIONS, LAYING CONDITIONS, PIPE MATERIAL, ETC. FOR DIP ENCASED IN POLYETHYLENE, INCREASE THE GIVEN VALUE BY A FACTOR OF 1.25.



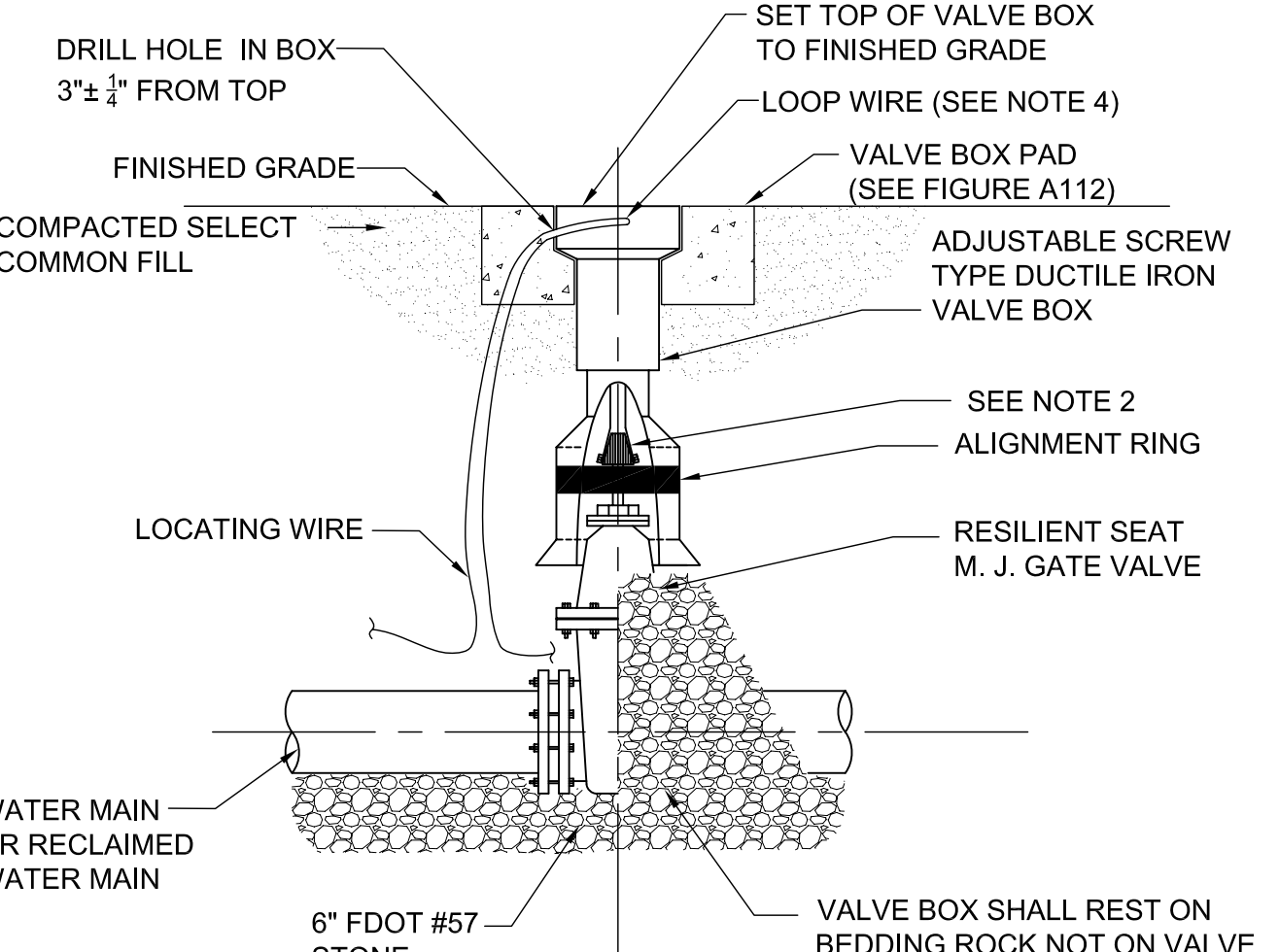
- NOTES:
- CURB STOP SHALL BE INSTALLED ON STREET SIDE OF THE SIDEWALK BETWEEN SIDEWALK AND CURB.
 - CONTRACTOR TO LOCATE CURB STOP BY PLACING A 2" X 2" SQUARE STAKE RISING 24" ABOVE THE GROUND. TOP OF STAKE SHALL BE PAINTED THE COLOR OF THE UTILITY SERVICE AND LABELED WITH THE LOT NUMBER(S) IT SERVES.



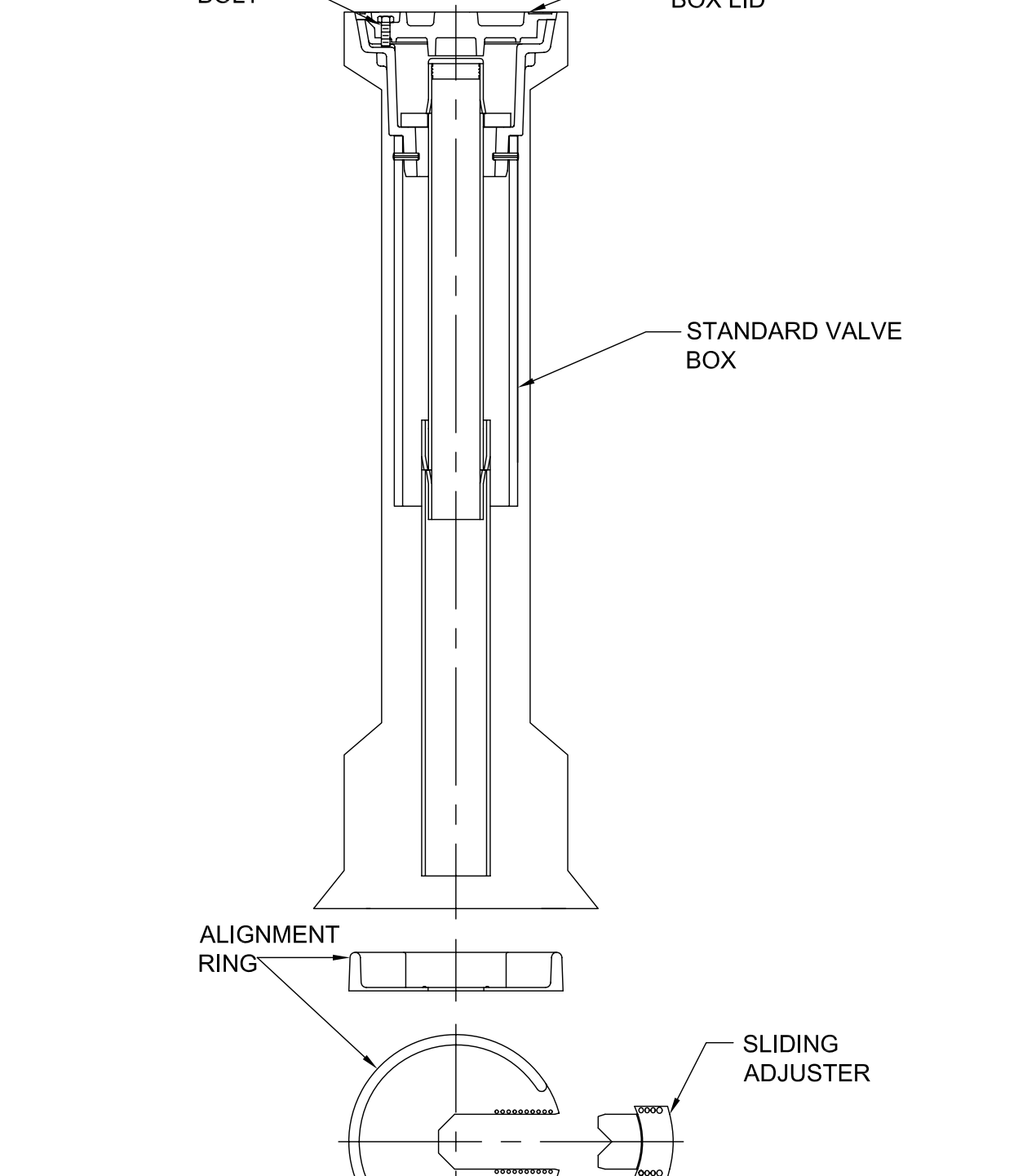
- NOTES:
- BRONZE (OR STAINLESS STEEL) IDENTIFICATION DISC SHALL BE REQUIRED FOR ALL VALVES, EXCEPT HYDRANT VALVES.
 - IN LIEU OF PRECAST CONCRETE PAD, A 6" THICK X 24" (ROUND OR SQUARE) POURED CONCRETE PAD WITH TWO #4 REBAR AROUND PERIMETER MAY BE USED.



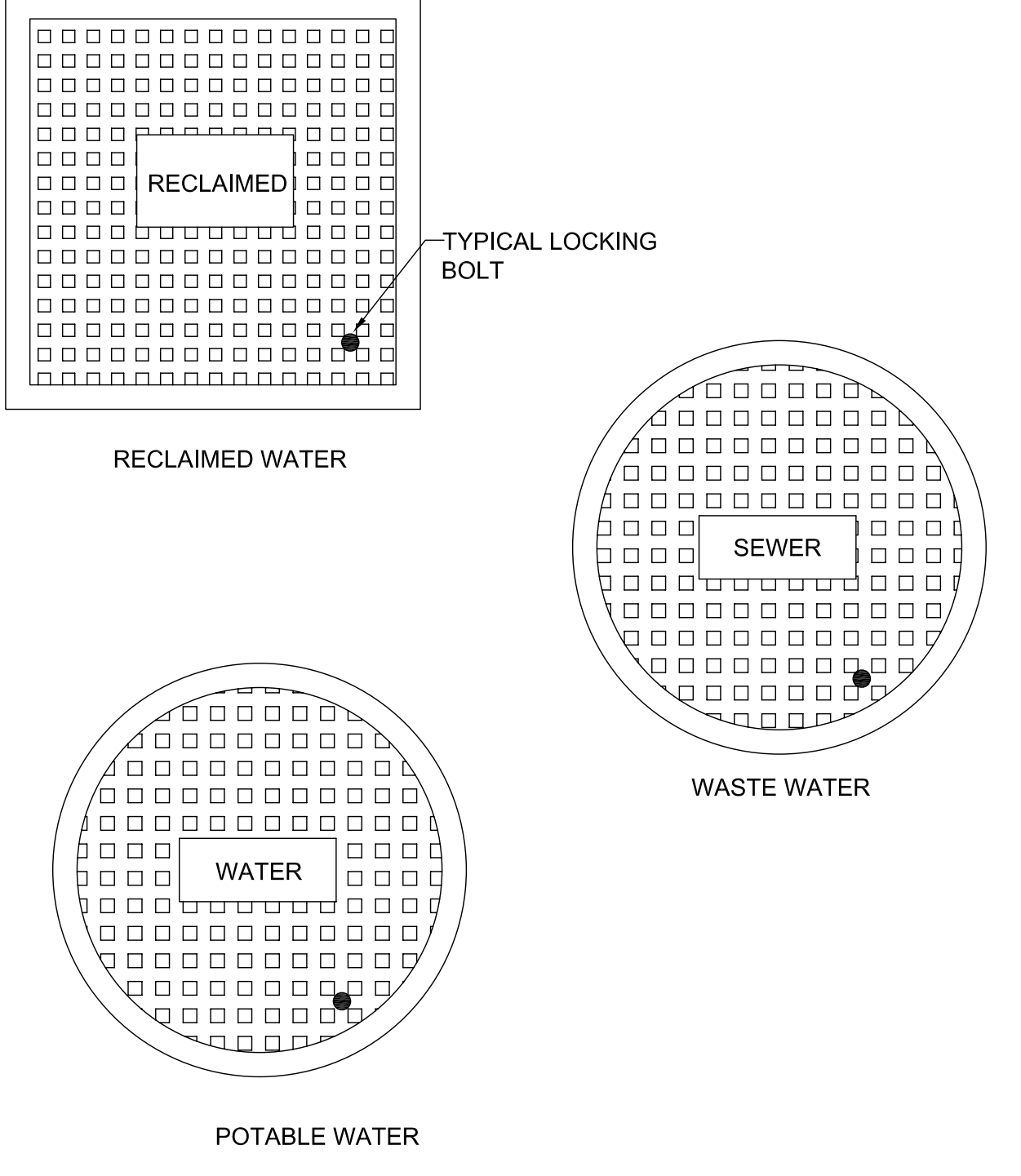
- NOTES:
- ADDITIONAL REINFORCEMENTS SHALL BE AS SPECIFIED BY THE ENGINEER.
 - MINIMUM COMPRESSIVE STRENGTH FOR CONCRETE SHALL BE 3000 PSI.
 - BEDDING, BACKFILL AND COMPACTION SHALL BE AS SPECIFIED ELSEWHERE IN THE STANDARD DRAWINGS.
 - ALL FORM BOARDS SHALL BE REMOVED PRIOR TO BACKFILL.
 - NO ALLOWANCE SHALL BE MADE FOR FRICTION BETWEEN THE PIPE WALL AND THE THRUST COLLAR.
 - DESIGN PRESSURE: 150 PSI.
 - REQUIRED FOR LINE STOPS.
- | PIPE SIZE (INCHES) | DIMENSIONS (FT.) | | | | TIE RODS REQ'D DIA. | NO. |
|--------------------|------------------|-----|-----|---|---------------------|-----|
| | A | B | C | D | | |
| 6 | 2.0 | 2.0 | 1.0 | | 3/4 | 2 |
| 8 | 2.5 | 2.5 | 1.0 | | 3/4 | 2 |
| 10 | 3.5 | 3.0 | 1.0 | | 3/4 | 4 |
| 12 | 5.0 | 3.0 | 1.0 | | 3/4 | 4 |
| 16 | 6.0 | 4.0 | 1.5 | | 3/4 | 4 |
| 20 | 8.0 | 5.0 | 1.5 | | 3/4 | 6 |
| 24 | 9.0 | 6.0 | 1.5 | | 3/4 | 8 |
- NOTE: THRUST COLLAR AREAS TO BE COMPUTED ON BASIS OF 2000 LBS/SF SOIL RESTRAINT BEARING.



- NOTES:
- PVC PIPE OR DUCTILE IRON PIPE EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION.
 - THE VALVE ACTUATING NUT SHALL BE EXTENDED TO BE WITHIN 3" OF FINISHED GRADE.
 - PROVIDE A PLASTIC DEBRIS SHIELD / ALIGNMENT RING WHICH INSTALLS BELOW THE VALVE ACTUATING NUT. THIS SHIELD SHALL CENTER THE RISER PIPE BOX OVER THE ACTUATING NUT AND MINIMIZE INFILTRATION.
 - LOCATING WIRE SHALL BE CONTINUOUS WITH NO SPLICES AND SHALL EXTEND 12" ABOVE TOP OF COLLAR. WIRE SHALL BE COLOR CODED TO MATCH THE UTILITY INSTALLED.
 - FOR NEW CONSTRUCTION, THE VALVE BOX SHALL BE ADJUSTED TO MIDRANGE TO ALLOW FOR FUTURE BOX ADJUSTMENTS.
 - REFER TO FIGURE A111 FOR INSTALLATIONS AT A DEPTH OF 6' OR GREATER.



- NOTES:
- FOR ALL MAINS 6" DEEP OR GREATER.
 - FOR MAINS 16" IN DIAMETER OR GREATER REGARDLESS OF DEPTH.



- NOTE:
- LOCKING LIDS ARE REQUIRED ON ALL VALVE BOXES.

ORANGE COUNTY DETAIL SHEET

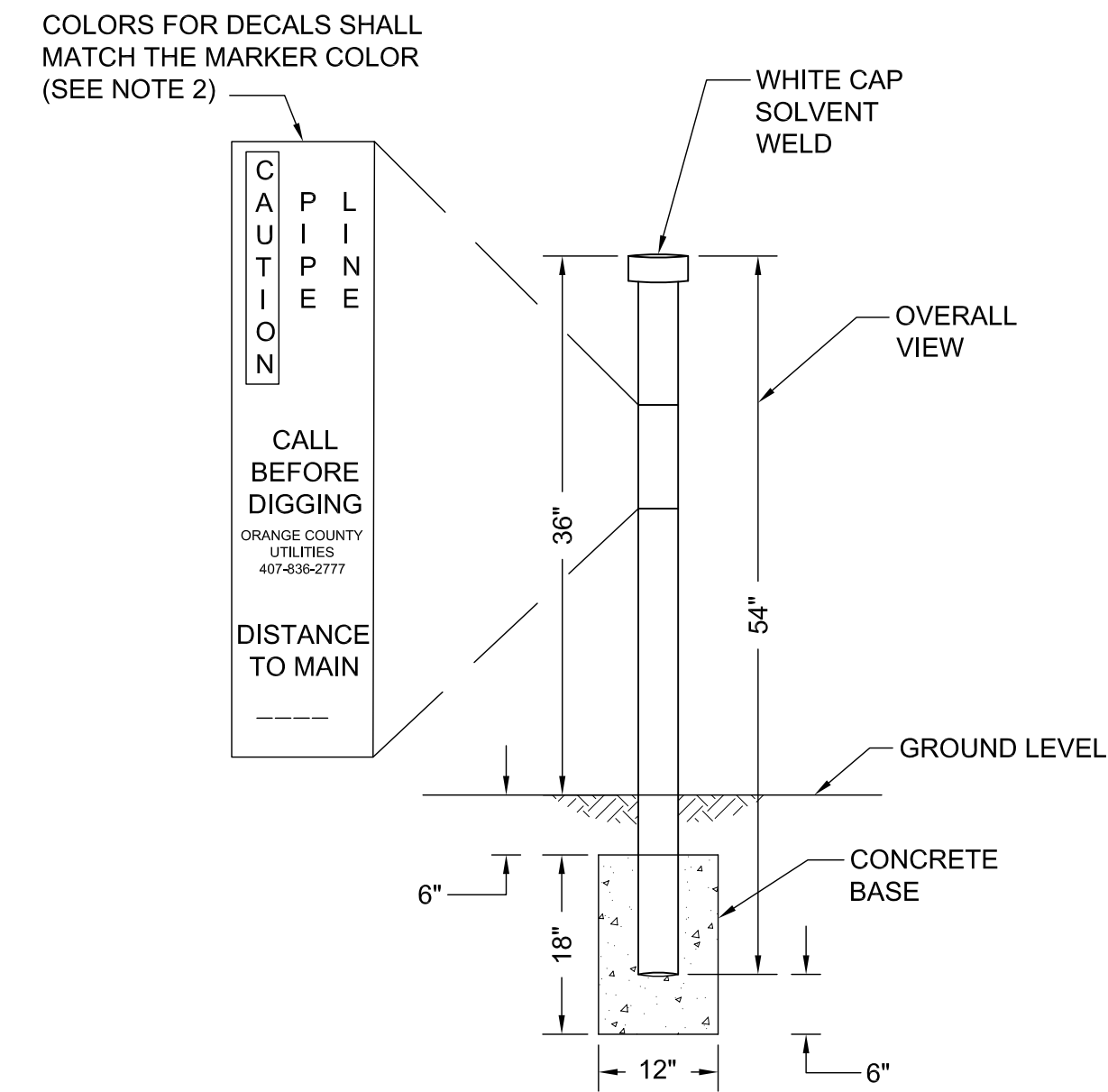
ENGINEERING PLANNING
URBAN DESIGN
SKConsortium, Inc.
1053 N. ORLANDO AVE., SUITE 3 MAILAND, FLORIDA 32751
TELEPHONE 407-629-4288 FACSIMILE 407-629-1656 E-MAIL 7080

Seal: Majid Kalaghchi P.E. 41046

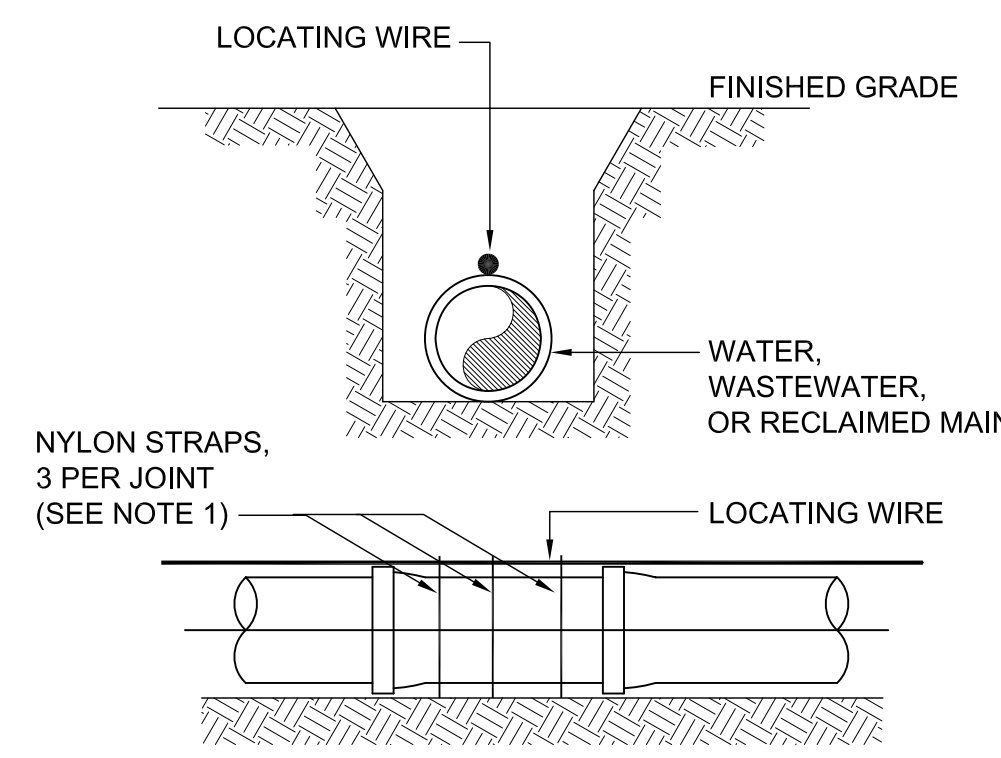
OC UTILITY DETAILS
NEW INDEPENDENCE PARK
OC CAPITAL PROJECTS
ORANGE COUNTY, FL

DESIGN DEVELOPMENT 30% 8-15-14
80% SUBMITTAL 9-5-14
PER TRC 10-1-14
100% SUBMITTAL 10-8-14
REVISED PER DRC 10-23-14
BID AND PERMIT SET 10-30-14

Issue Date and Purpose
Project Number: **1415**
Drawn By: D. FORSYTH
Checked: M. KALAGHCHI
File No: 14150004
C402



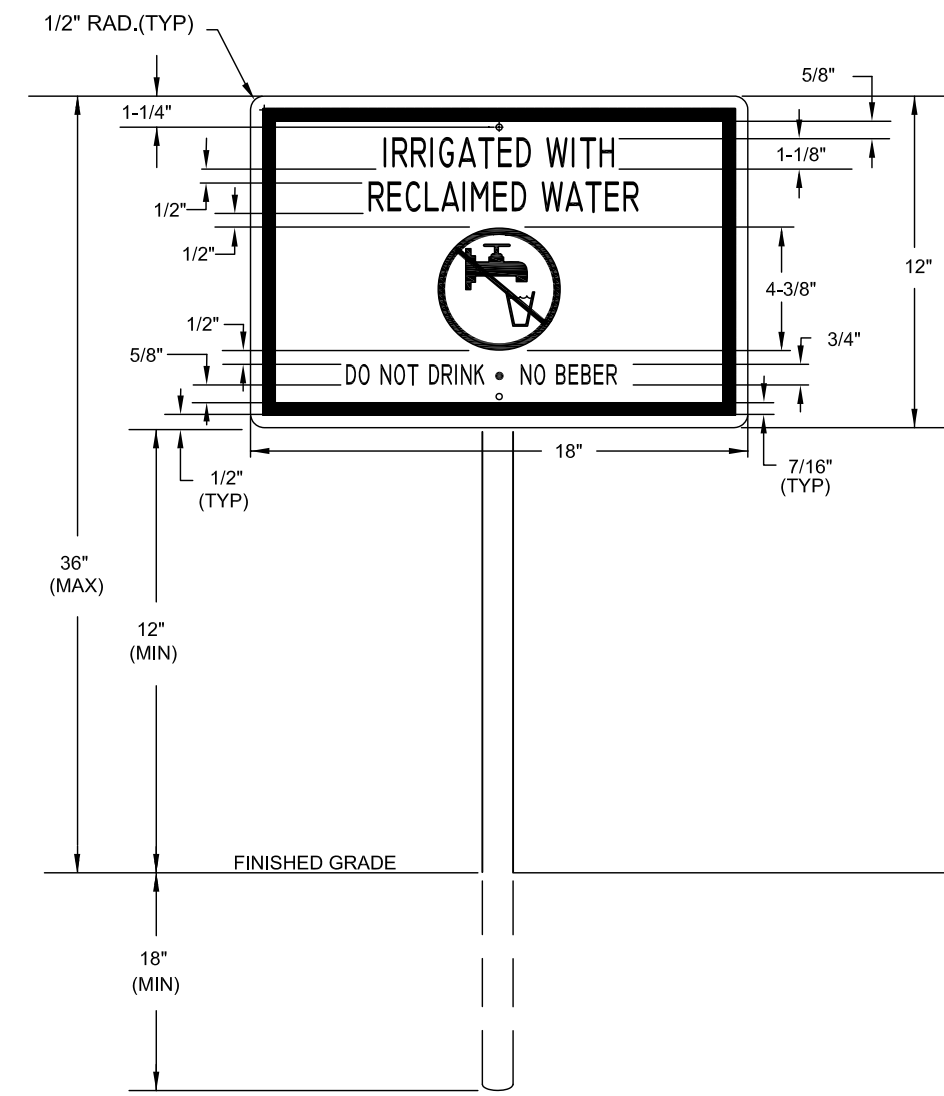
- NOTES:
1. MARKERS ARE REQUIRED WHEN UTILITY MAIN IS LOCATED OVER 30 FEET FROM EDGE OF PAVEMENT OR IN AN EASEMENT NOT ADJACENT TO THE RIGHT OF WAY.
 2. MARKERS SHALL BE 4" DIAMETER SCH. 80 OR DR18 PVC; BLUE FOR WATER; GREEN FOR WASTEWATER; AND PANTONE PURPLE 522C FOR RECLAIMED WATER.
 3. MARKERS SHALL BE PLACED AT ALL DIRECTIONAL CHANGES AND AT ALL VALVES EXCEPT WATER VALVES NEAR FIRE HYDRANTS. ADDITIONAL MARKERS SHALL BE INSTALLED AS NEEDED SO THAT THE DISTANCE BETWEEN MARKERS DOES NOT EXCEED 1000 FEET.



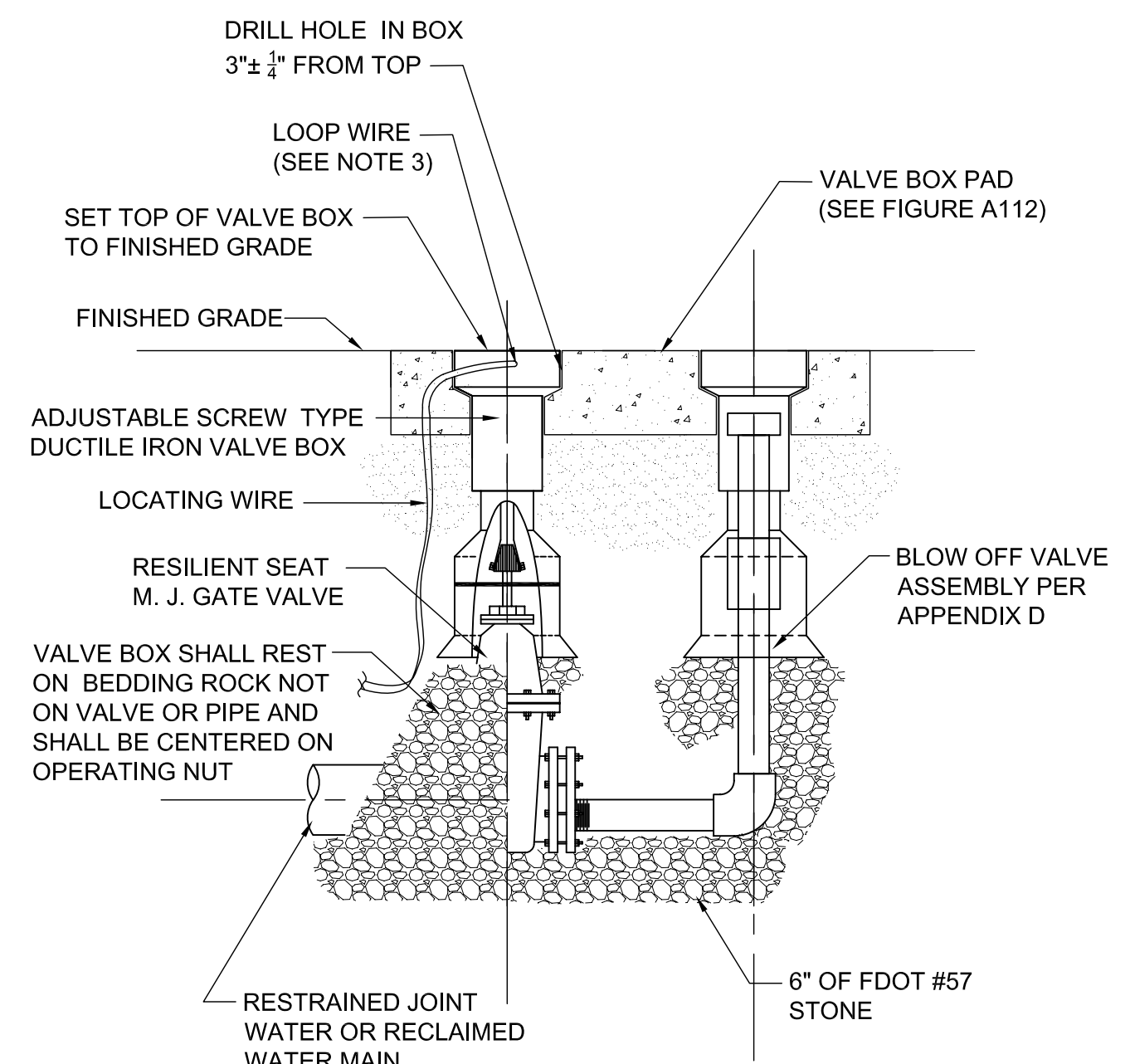
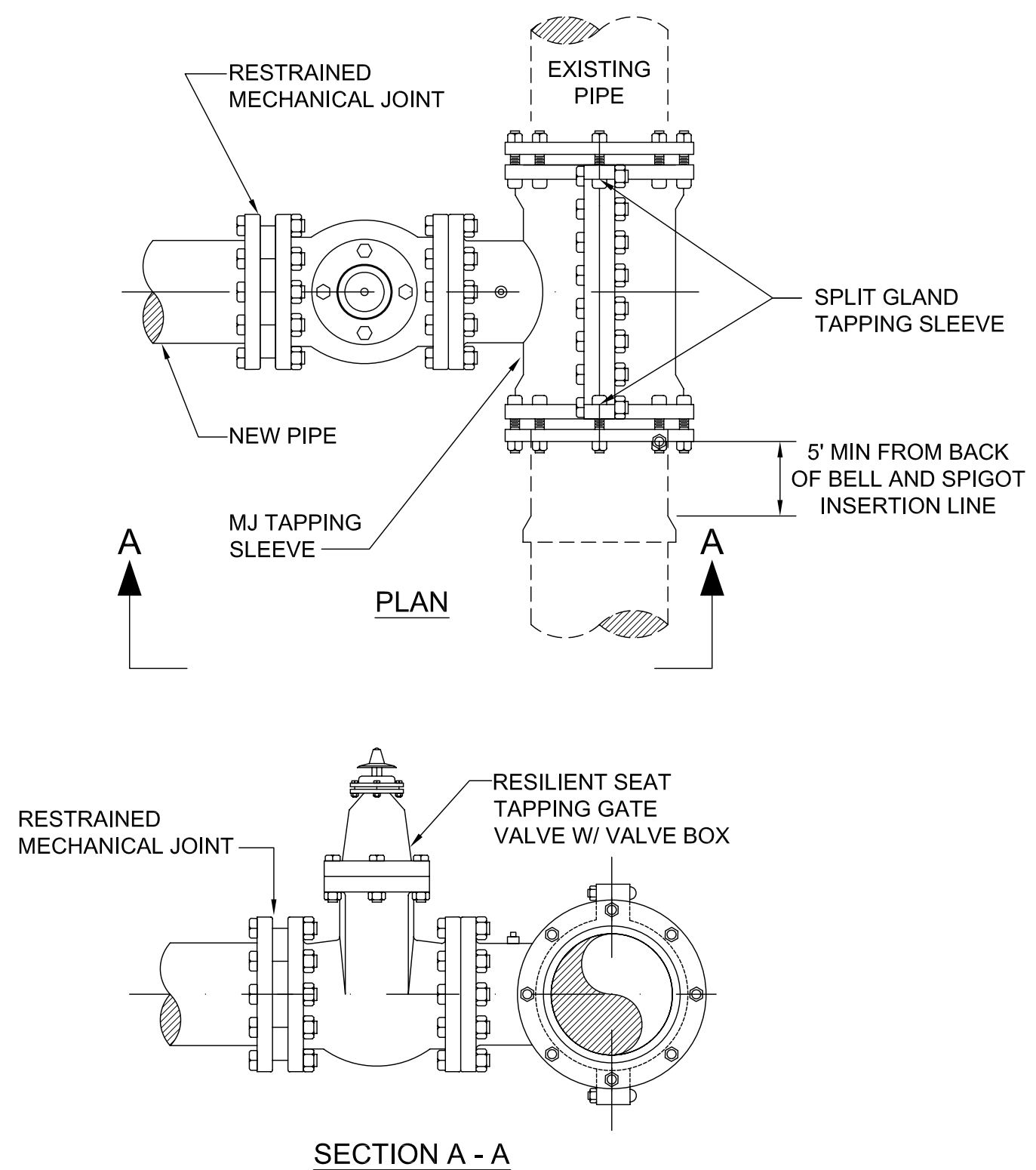
- NOTES:
1. ALL PIPE SHALL REQUIRE INSULATED LOCATING WIRE (10 GAUGE SOLID COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR AND SHALL BE WRAPPED WITH NYLON STRAPS TO TOP CENTERLINE OF THE PIPE.
 2. LOCATING WIRE SHALL BE CONTINUOUS INSIDE VALVE BOXES AND SHALL EXTEND 12" ABOVE TOP OF COLLAR.
 3. WIRE INSULATION SHALL BE COLOR CODED FOR THE TYPE OF PIPE BEING INSTALLED.

PROPOSED UTILITY	POTABLE WATER		RECLAIMED WATER		WASTEWATER (GRAVITY & FM)		STORM SEWER	
	HORIZ	VERT	HORIZ	VERT	HORIZ	VERT	HORIZ	VERT
POTABLE WATER	3' NOTE 1	12" NOTE 1 & 3	3' NOTE 1 & 3	12" NOTE 3	6' NOTE 3	12" NOTE 3	3' NOTE 1 & 3	12"/18" NOTE 2 & 3
RECLAIMED WATER	3' NOTE 1 & 3	12" NOTE 3	3' NOTE 1	12" NOTE 1	3' NOTE 1	12" NOTE 1	3' NOTE 1	12"/18" NOTE 2
WASTEWATER (GRAVITY AND FM)	6' NOTE 3	12" NOTE 3	3' NOTE 1	12" NOTE 1	3' NOTE 1	12" NOTE 1	3' NOTE 1	12"/18" NOTE 2
RIGHT OF WAY	3' NOTE 1	N/A	3' NOTE 1	N/A	3' NOTE 1	N/A	N/A	N/A

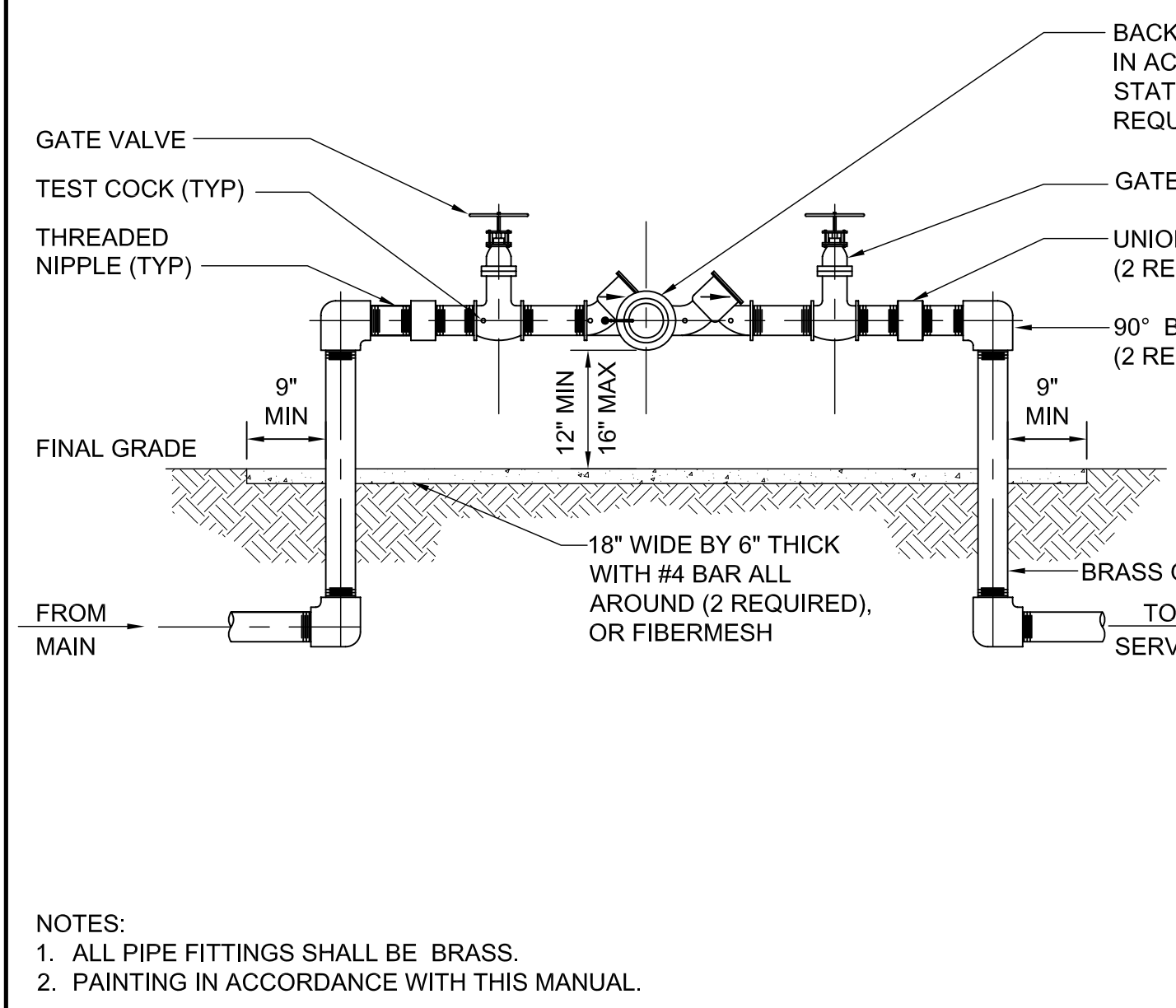
- NOTES:
1. THIS SEPARATION REQUIREMENT IS TO PROVIDE ACCESSIBILITY FOR CONSTRUCTION AND MAINTENANCE. THREE FEET OF HORIZONTAL SEPARATION IS THE MINIMUM FOR PIPES WITH THREE FEET OF COVER. FOR PIPES INSTALLED AT GREATER DEPTHS, PROVIDE AN ADDITIONAL FOOT OF SEPARATION FOR EACH ADDITIONAL FOOT OF DEPTH.
 2. THE 18-INCH SEPARATION REQUIREMENT APPLIES WHEN THE STORM PIPE CROSSES ABOVE THE OCU MAIN, AND WHEN THE STORM PIPE HAS A DIAMETER EQUAL TO OR GREATER THAN 24 INCHES. OTHERWISE, THE REQUIRED SEPARATION IS 12 INCHES.
 3. THIS SEPARATION REQUIREMENT COMPLIES WITH MINIMUM FDEP SEPARATION REQUIREMENTS OUTLINED IN 62-555.314, FAC. VARIANCES FROM THE FDEP REQUIREMENTS MUST COMPLY WITH 62-555.314(5), FAC AND MUST BE APPROVED INDIVIDUALLY BY BOTH FDEP AND OCU.
 4. DISTANCES GIVEN ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
 5. NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF SANITARY OR STORM WATER MANHOLE OR STRUCTURE.



- NOTES:
1. SIGN TO BE PROVIDED BY OCU.
 2. HEIGHT OF SIGN WILL DEPEND ON LOCATION AND SURROUNDING LANDSCAPE PLANT TYPES. IN ALL CASES, THE SIGN SHALL BE VISIBLE TO THE PUBLIC.
 3. BACKGROUND SHALL BE WHITE, LETTERS SHALL BE BLACK (HELVETICA, SWISS 721 COREL OR ACCEPTABLE EQUAL) AND BORDER SHALL BE PANTONE PURPLE 522C.
 4. ENGINEERING GRADE REFLECTIVE MATERIALS SHALL BE USED.
 5. SIGN MATERIAL SHALL BE OF 0.040 GAUGE METAL.
 6. POST SHALL BE 2-3/8" OD ALUMINUM PIPE, HOT DIP GALVANIZED PER ASTM A-123. POST TO BE PROVIDED BY CUSTOMER.
 7. MOUNTING HARDWARE SHALL BE STAINLESS STEEL.
 8. SIGNS SHALL BE PLACED BY THE CONTRACTOR IN ACCORDANCE WITH CHAPTER 62-610 "ACCESS CONTROL AND ADVISORY SIGNS", FAC, THE COUNTY APPROVED ENGINEERING PLANS AND/OR AS APPROVED BY THE UTILITIES.

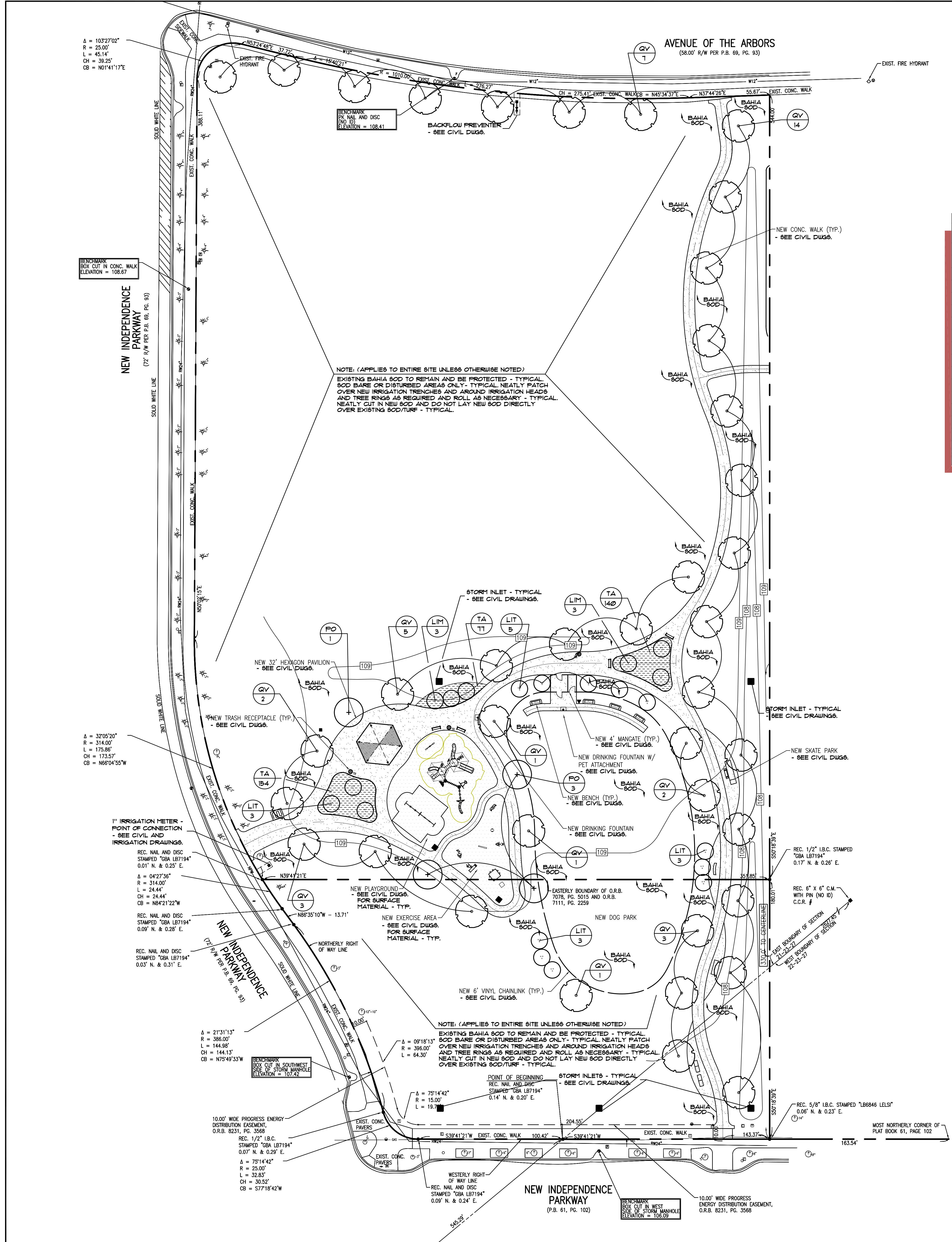


- NOTES:
1. FOR USE AT PHASE LINES OR TEMPORARY TERMINATION POINTS.
 2. LOCATING WIRE SHALL BE CONTINUOUS INSIDE THE VALVE BOX AND SHALL EXTEND 12" ABOVE TOP OF COLLAR. WIRE SHALL BE COLOR CODED TO MATCH THE UTILITY INSTALLED.



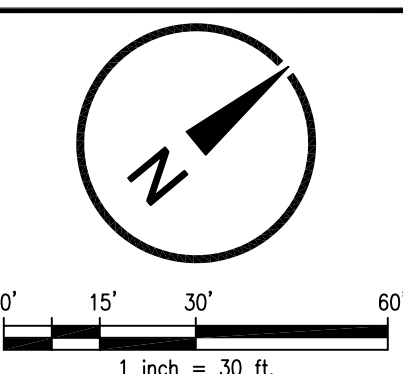
- NOTES:
1. ALL PIPE FITTINGS SHALL BE BRASS.
 2. PAINTING IN ACCORDANCE WITH THIS MANUAL.

ORANGE COUNTY DETAIL SHEET



SITE DATA:

PARCEL ID # 21-23-27-0000-00-017
 22-23-27-0000-00-001
 ZONING P-D
 TOTAL SITE AREA 6.24 ACRES
 PAVILIONS 665 SF
 PAVEMENT/HARDSCAPE 24,668 SF
 TOTAL IMPERVIOUS AREA 25,333 SF = 0.58 ACRES = 9.29%
 TOTAL PERVIOUS AREA 5.66 ACRES = 90.71%
 PARKING PROVIDED TOTAL 0 SPACES

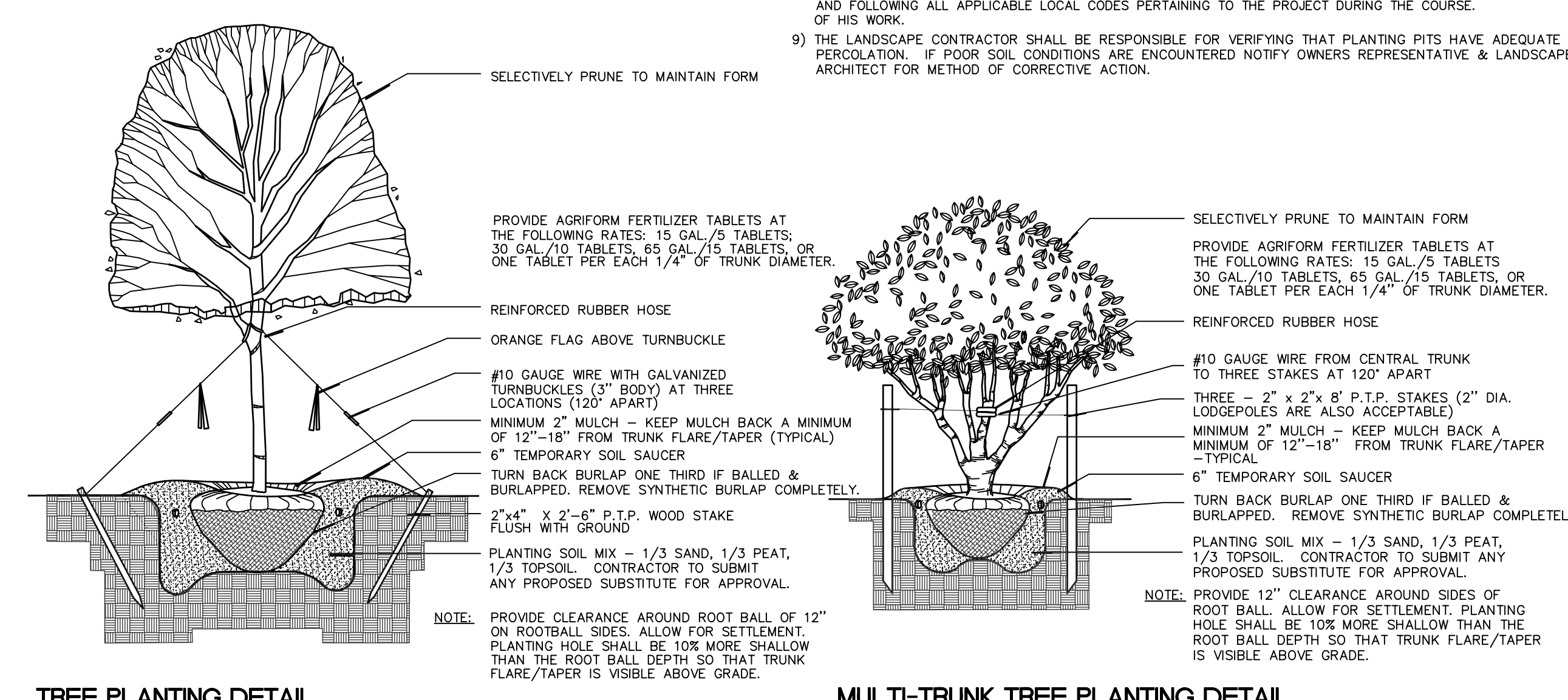


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SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	DESCRIPTION	REMARKS	WATER USE ZONE	FLORIDA FRIENDLY	FLORIDA NATIVE
TREES								
LIM	6	LAGERSTROEMIA INDICA MUSKOGEE	MUSKOGEE CRAPPE MYRTLE	1" HT. MIN. x 3/8" - 4" Ø P.D. / BG OR 300 MIN. MULTI TRUNK (3-5') FULL SYMMETRICAL CROWNS / WELL MATCHED	SPACE AS SHOWN / NOT STUMP CUT	LOW	YES - ON FLORIDA FRIENDLY LIST	NO
LIT	14	LAGERSTROEMIA INDICA MUSKOGEE	TURKEGEE CRAPPE MYRTLE	1" HT. MIN. x 3/8" - 4" Ø P.D. / BG OR 300 MIN. MULTI TRUNK (3-5') FULL SYMMETRICAL CROWNS / WELL MATCHED	SPACE AS SHOWN / NOT STUMP CUT	LOW	YES - ON FLORIDA FRIENDLY LIST	NO
PO	4	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	10" HT. MIN. x 4" - 5" Ø P.D. / 3" CAL. MIN. / 45 GAL. MIN. FULL CROWNS / STRONG STRAIGHT CENTRAL LEADER	SPACE AS SHOWN / GUY	LOW	YES - ON FLORIDA FRIENDLY LIST	YES
QV	39	QUERCUS VIRGINIANA	LIVE OAK	10" HT. MIN. x 4" - 5" Ø P.D. / 3" CAL. MIN. / 45 GAL. MIN. FULL CROWNS / STRONG STRAIGHT CENTRAL LEADER	SPACE AS SHOWN / GUY	LOW	YES - ON FLORIDA FRIENDLY LIST	YES
SHRUBS								
GROUND COVER								
TA	371	TRACHELOPERMUM ASIATICUM MINIMA	DWARF ASIAN JASMINE	12" - 18" Ø P.D. / 5-1" RUNNERS MIN. / FULL / 1 G	30" O.C.	MEDIUM	YES - ON FLORIDA FRIENDLY LIST	NO
SOD/BEDD								
SOD	SF./T.B.D.	PASPALUM NOTATUM ARGENTINE	ARGENTINE BAHIA SOD - ALL BARE & DISTURBED AREAS	SOLID, FREE OF WEEDS, PESTS AND DISEASES TIGHTLY JOINED / STAGGER JOINTS / ROLLED	QTY AS REQ'D. FIELD VERIFY QTY.	LOW	NO - NOT APPLICABLE	NO
MULCH								
MULCH	CY./T.B.D.	MINI PINE BARK NUGGETS	MINI PINE BARK NUGGETS	2" SETTLED DEPTH MINIMUM	QTY AS REQ'D. FIELD VERIFY QTY.	NOT APPLICABLE	NO - NOT APPLICABLE	N/A

- LANDSCAPE PLANTING NOTES:**
- 1) ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL FREE OF PESTS AND DISEASES.
 - 2) ALL PLANTS SHALL BE FLORIDA NO. 1 OR BETTER, AS GRADED IN FLORIDA GRADES AND STANDARDS FOR NURSERY PLANTS (CURRENT EDITION).
 - 3) ALL PLANTS ARE SUBJECT TO APPROVAL BY THE LANDSCAPE ARCHITECT AND OWNER, BEFORE, DURING, AND AFTER INSTALLATION.
 - 4) REFER TO WRITTEN SPECIFICATIONS FOR DETAILED PLANTING INSTRUCTIONS.
 - 5) ALL SINGLE-TRUNKED TREES SHALL BE STRAIGHT TRUNKED WITH ONE CENTRAL LEADER AND HAVE A FULL DENSE CROWN.
 - 6) ALL TREES SHALL BE STAKED AND GUYED AS SHOWN IN PLANTING DETAILS.
 - 7) ALL MULCH PLANTING AREAS SHALL BE A MINIMUM OF 2" IN DEPTH. PULL MULCH BACK FROM MAIN STEM AS NOTED IN DETAILS.
 - 8) ALL PLANTING AREAS SHALL HAVE A MINIMUM OF 3" TOPSOIL.
 - 9) ALL TREES SHALL BE FREE OF OPEN WOUNDS AND WOUND SCARS IN THE CLEAR TRUNK AREA.
 - 10) ANY SYNTHETIC BURLAP MUST BE TOTALLY REMOVED PRIOR TO INSTALLATION OF PLANT MATERIAL. IF NATURAL BURLAP IS USED, IT MAY BE TURNED DOWN 1/2 OF ROOTBALL. IF WIRE BASKETS ARE USED, WIRE SHALL BE REMOVED FROM TOP 1/2 OF ROOTBALL AND WIRES PERMANENTLY CUT ELSEWHERE.

- LANDSCAPE CONTRACTOR NOTES:**
- 1) THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING, IN FULL, ALL LANDSCAPE PLANTING AREAS UNTIL THE JOB IS ACCEPTED IN FULL BY OWNER. "IN FULL" MEANS: WATERING, PEST CONTROL, MULCHING, MOWING, FERTILIZING AND RESETTING TREES THAT ARE OUT OF PLUMB.
 - 2) THE LANDSCAPE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL INSTALLED PLANT MATERIAL FOR A PERIOD OF ONE CALENDAR YEAR BEGINNING ON THE DATE OF 100% COMPLETION. ANY AND ALL REQUIRED PLANT REPLACEMENTS SHALL BE MADE PROMPTLY AND AT NO ADDITIONAL COST TO THE OWNER.
 - 3) THE LANDSCAPE CONTRACTOR SHALL STAKE THE LOCATIONS OF ALL PLANT MATERIAL AND PLANTING BED LINES FOR REVIEW BY THE LANDSCAPE ARCHITECT AND OWNER.
 - 4) THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL WRITTEN PLANT QUANTITIES PRIOR TO INITIATION OF THE WORK. IN THE EVENT THAT THE PLANS CONTRACTOR THE PLANT LIST, THE PLANS SHALL NOTIFY LANDSCAPE ARCHITECT AT ONCE WITH ANY PLANT QUANTITY DISCREPANCIES.
 - 5) THE LANDSCAPE CONTRACTOR SHALL BE FAMILIAR WITH AND ACCEPT THE EXISTING SITE CONDITIONS PRIOR TO INITIATION OF THE WORK. ANY VARIATION FROM THE SPECIFIED WORK SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
 - 6) THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES, DRAINAGE STRUCTURES, CURBS, SIDEWALKS, AND ANY OTHER OBJECTS WHICH MIGHT BE DAMAGED DURING THE WORK. LANDSCAPE CONTRACTOR SHALL CALL SUNSHINE AT 1-800-432-4700 OR 811 A MINIMUM OF 48 HOURS (2 DAYS) PRIOR TO ANY DIGGING OR EXCAVATION WORK - TYPICAL.
 - 7) THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ANY AND ALL NECESSARY REPAIRS TO DAMAGE CAUSED BY HIS WORK AT NO ADDITIONAL COST TO THE OWNER OR LANDSCAPE ARCHITECT.
 - 8) THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, AND FOLLOWING ALL APPLICABLE LOCAL CODES PERTAINING TO THE PROJECT DURING THE COURSE OF HIS WORK.
 - 9) THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT PLANTING PITS HAVE ADEQUATE PERCOLATION. IF POOR SOIL CONDITIONS ARE ENCOUNTERED NOTIFY OWNERS REPRESENTATIVE & LANDSCAPE ARCHITECT FOR METHOD OF CORRECTIVE ACTION.

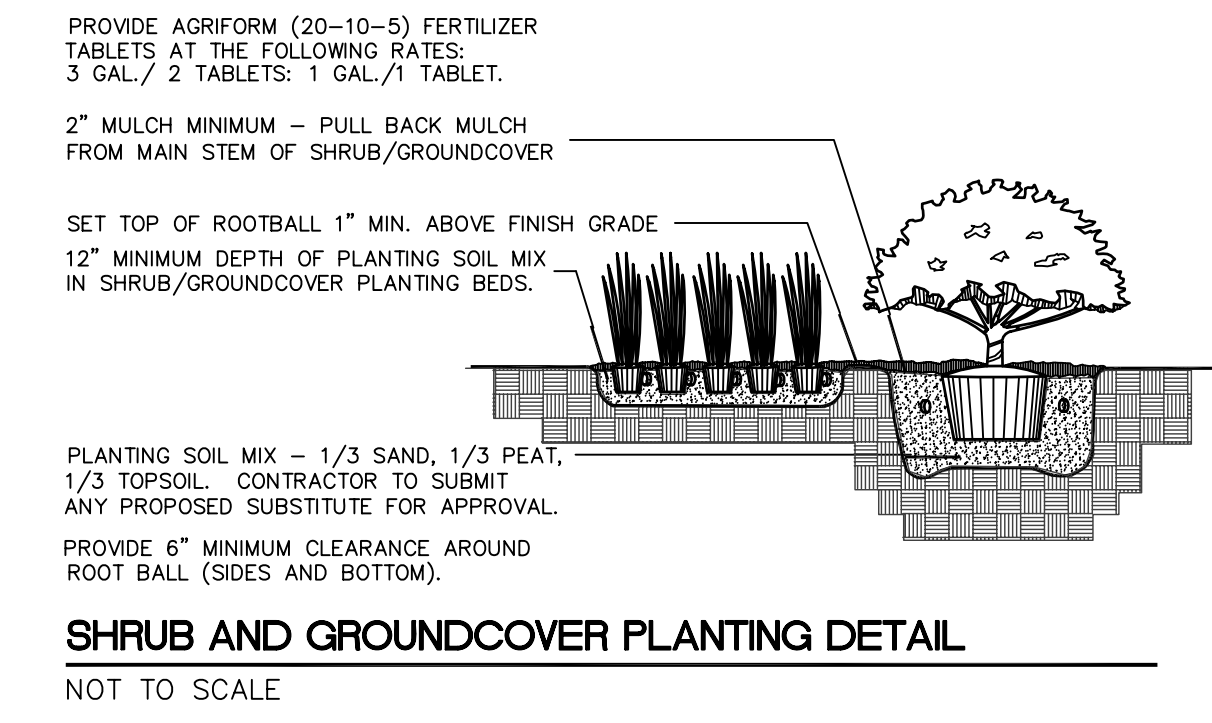


TREE PLANTING DETAIL
 NOT TO SCALE

MULTI-TRUNK TREE PLANTING DETAIL
 NOT TO SCALE

LEGEND:

	EXIST.	NEW
ASPHALT PAVEMENT		
CONCRETE WALK		
CONCRETE CURB		
CONC. CURB & GUTTER		
FENCE		
LIGHT POLE		
FIRE HYDRANT		
POWER POLE		
SIGN		



SHRUB AND GROUND COVER PLANTING DETAIL
 NOT TO SCALE

SK Consortium, Inc.
 ENGINEERING
 PLANNING
 URBAN DESIGN

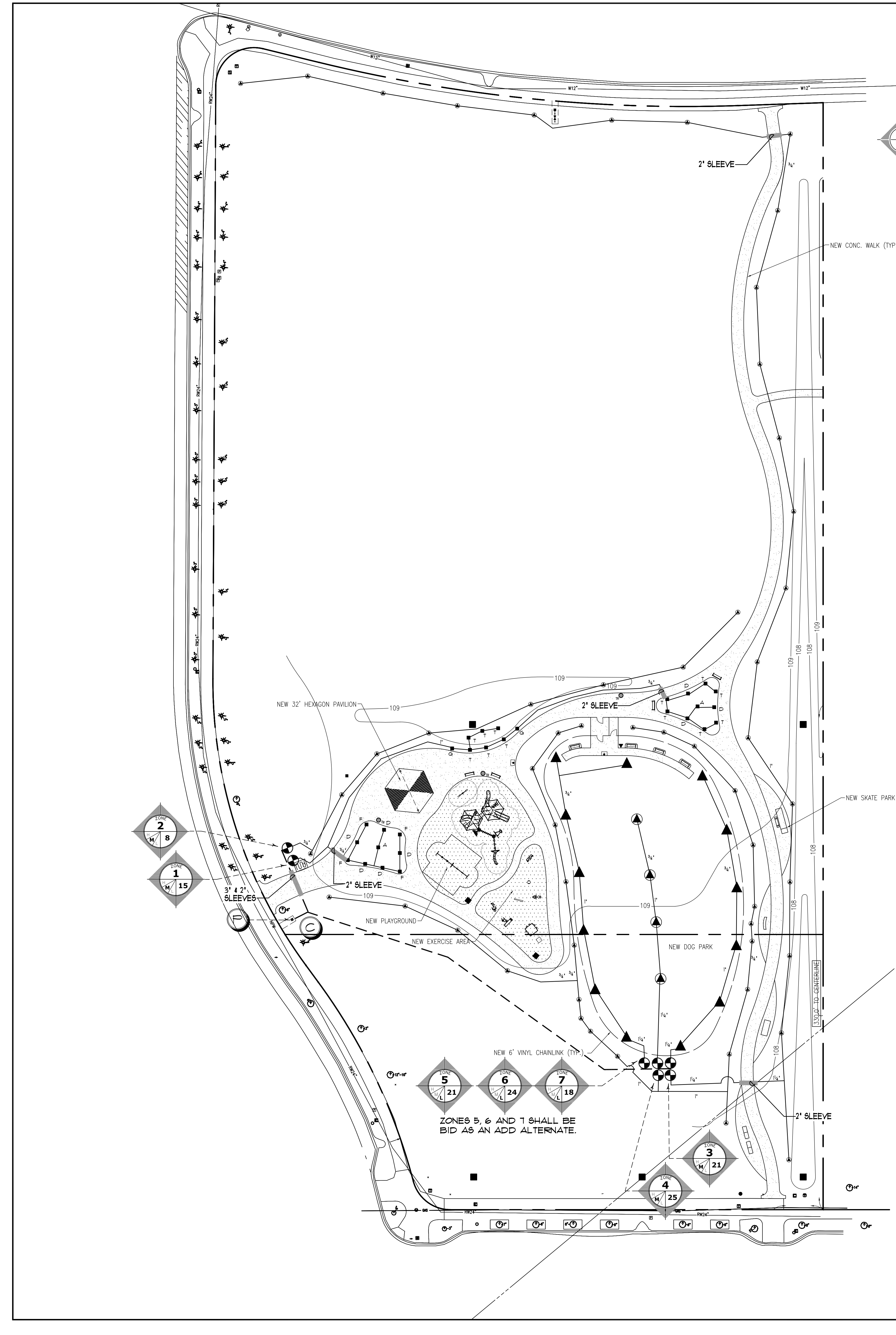
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SITE LANDSCAPE PLAN
NEW INDEPENDENCE PARK
 OC CAPITAL PROJECTS
 ORANGE COUNTY, FL

DESIGN DEVELOPMENT 30% 8-15-14
 90% SUBMITTAL 9-5-14
 PER TRG 10-1-14
 100% SUBMITTAL 10-8-14
 REVISED PER DRC 10-23-14
 BID AND PERMIT SET 10-30-14

Issue Date and Purpose
 Project Number: **1415**
 Drawn by: D. FORSYTH
 Checked by: M. KALAGHCHI
 File No: **L100**
 141500000



LEGEND

■	RAINBIRD 1800 SERIES 6AM-FRS 12" POP-UP
▲	TWO HUNTER AFB ADJUSTABLE FLOOD BUBBLERS PER TREE.
●	HUNTER PGP ULTRA ROTOR HEAD - 6 GPM
▲	HUNTER PGP ULTRA ROTOR HEAD - 3 GPM
---	SCH. 40 PURPLE PVC MAINLINE-1 1/2"
---	SCH. 40 PURPLE PVC LATERAL LINE- SIZE AS SHOWN UNTIL A SMALLER SIZE IS SHOWN. MINIMUM SIZE OF 3/4" (EXCEPT RISERS AND FLEX PIPE)
---	SCH. 40 SLEEVE (MINIMUM OF 24" DEPTH AND 2 SIZES LARGER THAN THE PIPE SIZE OR AS LABELED ON THE PLAN)
⊕	RAINBIRD 1" FIBER ELECTRIC VALVE. SIZE AS SHOWN BELOW. INSTALL VALVE IN A 12"X12" PURPLE VALVE BOX AND COVER
⊙	CONTROLLER- HUNTER I-CORE SERIES PEDESTAL MOUNT 12 STATION. WHERE SHOWN ON THE PLAN, INSTALL WITH A HUNTER MINI-CLICK RAIN SENSOR GROUND WITH A MINIMUM 8' COPPER CLAD ROD. SLEEVE TO AS REQUIRED. THE POWER SHALL BE SUPPLIED BY OTHERS.
⊕	POINT OF CONNECTION TO A 1" RECLAIMED WATER METER REFER TO THE UTILITY PLAN FOR THE EXACT LOCATION AND DETAILS.

GENERAL NOTES

- REFER TO THE LANDSCAPE PLANS WHEN TRENCHING TO AVOID TREES AND SHRUBS. HAND DIG AROUND ANY EXISTING TREES. DO NOT CUT ANY ROOTS OVER 2" IN DIAMETER.
- ALL MAINLINE PIPING SHALL BE BURIED TO A MINIMUM DEPTH OF 18" OF COVER. ALL LATERAL PIPING SHALL BE BURIED TO A MINIMUM DEPTH OF 12" OF COVER.
- ALL POP-UP ROTORS AND SPRAYS SHALL BE INSTALLED USING AN 18" PVC FLEX PIPE CONNECTION. DO NOT USE POLYETHYLENE PIPE.
- ADJUST ALL NOZZLES TO REDUCE WATER WASTE ON HARD SURFACES & BLDG WALLS. THROTTLE ALL VALVES ON SHRUB LINES AS REQUIRED TO PREVENT FOGGING. USE ADJUSTABLE NOZZLES WHERE REQUIRED TO AVOID ANY WATER ON BUILDING WINDOWS.
- ALL RISERS SHALL BE PAINTED BLACK OR A COLOR CHOSEN BY THE OWNER'S REPRESENTATIVE (IF ALLOWED BY CODE) AND SHALL BE STAKED WITH A STEEL ANGLE AND SECURED WITH PVC ULTRAVIOLET LIGHT PROTECTED PVC CLAMPS. RECLAIMED SYSTEMS MAY REQUIRE THE PIPE TO BE PURPLE.
- ALL CONTROL WIRE SPLICES SHALL BE MADE IN VALVE BOXES USING 3M DEBR-Y WIRE CONNECTORS AND SEALANT WITH WIRE NUTS.
- THE CONTRACTOR SHALL PREPARE AN AS-BUILT DRAWING SHOWING ALL IRRIGATION INSTALLATION. THE CONTRACTOR SHALL NEATLY MARK IN RED INK ON A WHITE BOND PAPER COPY OF THE IRRIGATION PLAN ANY INSTALLATION THAT DEVIATES FROM THE PLAN. THE AS-BUILT DRAWING SHALL ALSO LOCATE ALL MAINLINE AND VALVES BY SHOWING EXACT MEASUREMENTS FROM HARD SURFACES. MEASUREMENTS SHALL BE MARKED ON THE PLAN EVEN WHEN THE EQUIPMENT IS INSTALLED IN THE EXACT LOCATION AS THE PLAN.
- ALL VALVES GATE VALVES AND QUICK COUPLERS SHALL BE INSTALLED IN VALVE BOXES. THE VALVE BOXES SHALL BE PURPLE WHEN USING RECLAIMED WATER.
- ANY PIPING SHOWN OUTSIDE THE PROPERTY LINE OR RUNNING OUTSIDE A LANDSCAPE AREA IS SHOWN THERE FOR CLARITY ONLY. ALL LINES SHALL BE INSTALLED ON THE PROPERTY AND INSIDE THE LANDSCAPE AREAS OR INSIDE A SCH. 40 SLEEVE.
- ALL HEADS SHALL BE INSTALLED A MINIMUM OF 24" FROM ANY WALL AND A MINIMUM OF 6" FROM ANY SIDEWALK, PATIO OR ROAD. (MINIMUM OF 2" WHERE THERE ARE NO BUMPER STOPS) THE EXACT HEIGHT OR ANY 12" POP-UP THAT IS SHOWN IN A SHRUB BED SHALL BE DETERMINED BY THE OWNER'S REPRESENTATIVE IN THE FIELD.
- THE CONTRACTOR SHALL EXERCISE CARE SO AS NOT TO DAMAGE ANY EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REPAIRS AND COST OF ANY DAMAGE CAUSED BY THEIR WORK.
- ALL WORK SHALL BE GUARANTEED FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE AGAINST ALL DEFECTS IN EQUIPMENT AND WORKMANSHIP, (OR AS OUTLINED IN THE WRITTEN SPECIFICATIONS)
- ELECTRICAL SERVICE TO LOCATION OF THE CONTROLLER, WELL OR PUMP SHALL BE PROVIDED TO A JUNCTION BOX OR DISCONNECT AT THE EQUIPMENT LOCATION BY THE ELECTRICAL CONTRACTOR OR BY OWNER WHEN IT IS NOT PART OF THE BID PACKAGE. CONFIRM THE LOCATION OF THE CONTROLLER WITH THE OWNER OR GENERAL CONTRACTOR BEFORE ANY INSTALLATION.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SCALE THE PLAN AND CHECK NOZZLE TYPES TO DETERMINE THE CORRECT SPACING OF THE HEADS. THE CONTRACTOR SHALL NOT SPACE THE HEADS FURTHER APART OR USE LESS HEADS THAN SHOWN ON THE PLAN. ANY CHANGES TO THE HEAD SPACING OR LAYOUT, WITHOUT THE CONSENT OF THE LANDSCAPE ARCHITECT OR OWNER, SHALL HOLD THE IRRIGATION CONTRACTOR RESPONSIBLE FOR WARRANTY OF THE PLANTS AND OR SOIL IN THESE AREAS.
- 48 HOURS BEFORE DIGGING, CALL 1-800-432-4110 (SUNSHINE STATE ONE CALL CENTER)

NOZZLE CHART

LETTER	PRODUCT SPEC.	GPM	40FPS	RADIUS	RADIUS/ANGLE	ZONE LABELS
A	MP2000	1.47	19'	1/4"	CORNER	360
B	MP CORNER	.45	14'	1/4"	CORNER	105
D	MP CORNER	.19	14'	1/4"	CORNER	45
D	MP2000	.14	19'	1/4"	HALF	90
F	MP2000	.40	19'	1/4"	QUARTER	180
F	MP STRIP	.21	5' X 15'	1/4"	END STRIP	90
H	RAINBIRD SQ-H	.23	45'	1/4"	HALF PATTERN	90
J	MP1000	.50	14'	1/4"	THREE QTR	210
K	MP1000	.19	14'	1/4"	FULL	360
P	MP STRIP	.44	5' X 30'	1/4"	SIDE STRIP	90
R	MP3500	2.86	30'	1/4"	HALF PATTERN	180
R	MP1000	.19	14'	1/4"	QUARTER	90
S	MP SERIES	.41	6'	1/4"	HALF	180
S	MP1000	.31	6'	1/4"	HALF	90
V	MP3000	.86	30'	1/4"	QUARTER	90
V	MP3000	1.82	30'	1/4"	HALF	180
W	MP3000	2.73	30'	1/4"	THREE QTR	210
Z	MP3000	3.64	30'	1/4"	FULL	360
Z	MP2000	1.10	19'	1/4"	THREE QTR	210

THE NOZZLES LISTED SHOW THE TYPE OF MP ROTATOR NOZZLE THAT SHOULD BE USED. THE CONTRACTOR SHOULD INSTALL THE MP1000, MP2000, MP3000 OR SPECIALTY NOZZLE IN EACH HEAD AS SHOWN BY THE LETTER BESIDE THE HEAD ON THE PLAN. THE GPM, DISTANCE AND ANGLE ON THE NOZZLE CHART ARE APPROXIMATE. THE CONTRACTOR SHALL ADJUST ALL NOZZLES TO PROVIDE THE 100% COVERAGE, BUT LIMIT OVERTHROW ON SIDEWALKS, WALLS, DRIVEWAYS, ETC. THE HEADS SHOULD BE SPACED AS PER THE PLAN. SCALE THE PLAN FOR DISTANCE. DO NOT ASSUME THAT ALL HEADS ARE SPACED AS PER CONVENTIONAL SPRAY HEADS. THE PRECIPITATION RATE FOR THESE NOZZLES IS LESS THAN A CONVENTIONAL SPRAY NOZZLE. FOLLOW THE ZONE CHART FOR AN APPROXIMATE RUN TIME FOR EACH ZONE, BUT SET THE RUN TIME ON THE CONTROLLER BASED ON THE SPECIFIC SITE CONDITIONS.

RECLAIMED WATER REQUIREMENTS

- ALL PIPE SHALL BE THE PURPLE RECLAIMED WATER TYPE.
- ALL SPRINKLER HEADS SHALL HAVE PURPLE INDICATORS.
- ALL MANUAL AND ELECTRIC VALVES SHALL HAVE TAGS TO INDICATE RECLAIMED WATER.
- ALL VALVE BOXES SHALL BE PURPLE WITH PURPLE LIDS TO INDICATE THE PRESENCE OF RECLAIMED WATER.
- ALL EQUIPMENT SHALL BE INSTALLED AS PER ALL LOCAL, COUNTY, STATE, AND FEDERAL CODES. PROVIDE AND INSTALL ALL REQUIRED RECLAIMED WATER SIGNS, COORDINATE PLACEMENT AND TYPE WITH THE RECLAIMED WATER PROVIDER.
- ALL CROSSINGS OF IRRIGATION PIPING AND POTABLE WATER LINES SHALL HAVE THE VERTICAL CLEARANCE VISUALLY VERIFIED AND THIS VERIFICATION MUST BE SHOWN ON THE AS-BUILT DRAWINGS BY DOCUMENTING THE VERTICAL MEASUREMENT SEPARATING THE PIPES.
- THE VERTICAL SEPARATION BETWEEN THE POTABLE AND RECLAIMED WATER LINES SHALL BE A MINIMUM OF 18". THIS SEPARATION SHALL BE VERIFIED AND DOCUMENTED IN A SET OF AS-BUILT DRAWINGS AS PER SPECIFICATIONS. THE HORIZONTAL SEPARATION SHALL BE 3" CENTER TO CENTER AND 3" OUTSIDE TO OUTSIDE IF VERTICAL MINIMUM OF 18" IS NOT MET, REFER TO THE SPECIFIC CODE IF THESE SEPARATIONS CAN NOT BE MET.

ZONE CHART

ZONE	GPM	HEAD TYPE	WATER USE	PRECIP. RATE (in. per hour)	RUN TIME (minutes)
1	15	Spray	MEDIUM	0.5	60
2	8	Bubbler	MEDIUM	1.5	20
3	21	Bubbler	MEDIUM	1.5	20
4	25	Bubbler	MEDIUM	1.5	20
5	21	Rotor	LOW	0.5	60
6	24	Rotor	LOW	0.5	60
7	18	Rotor	LOW	0.5	60

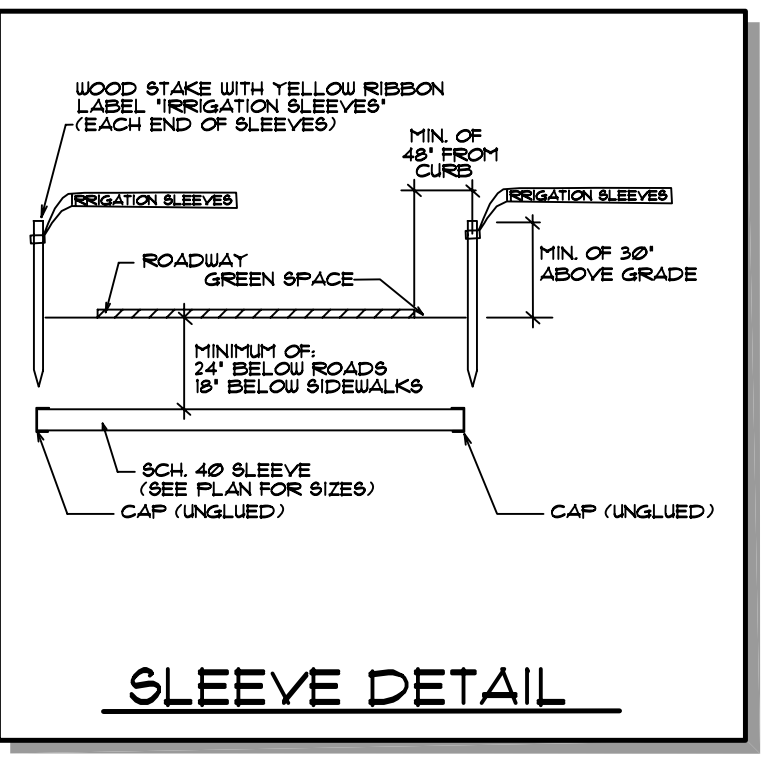
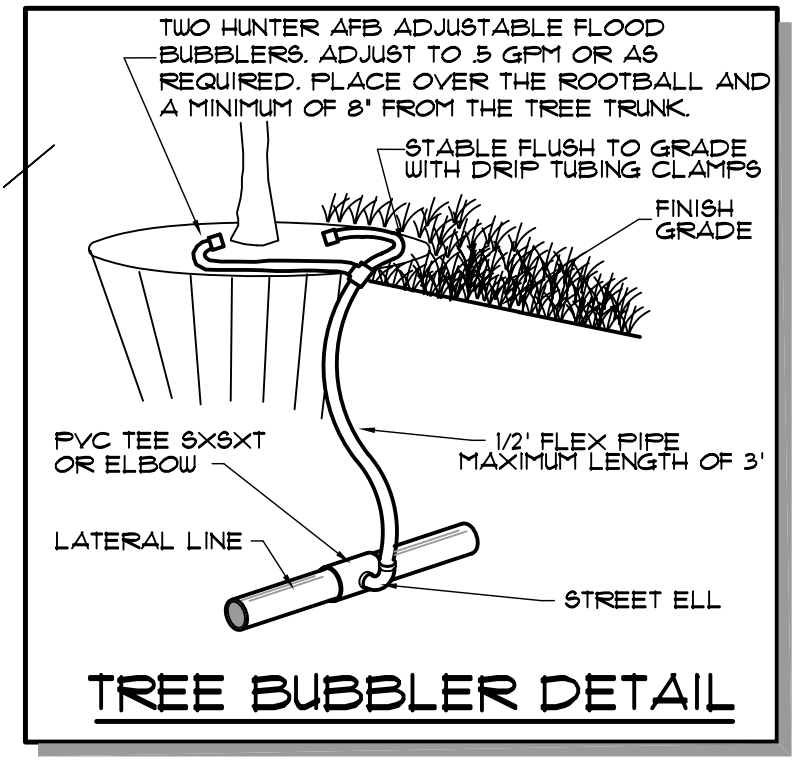
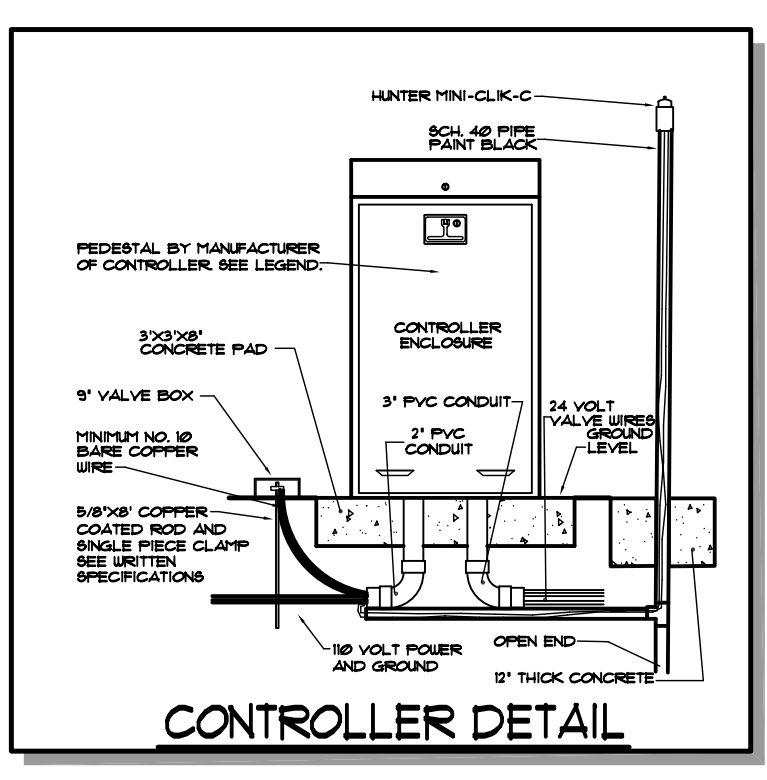
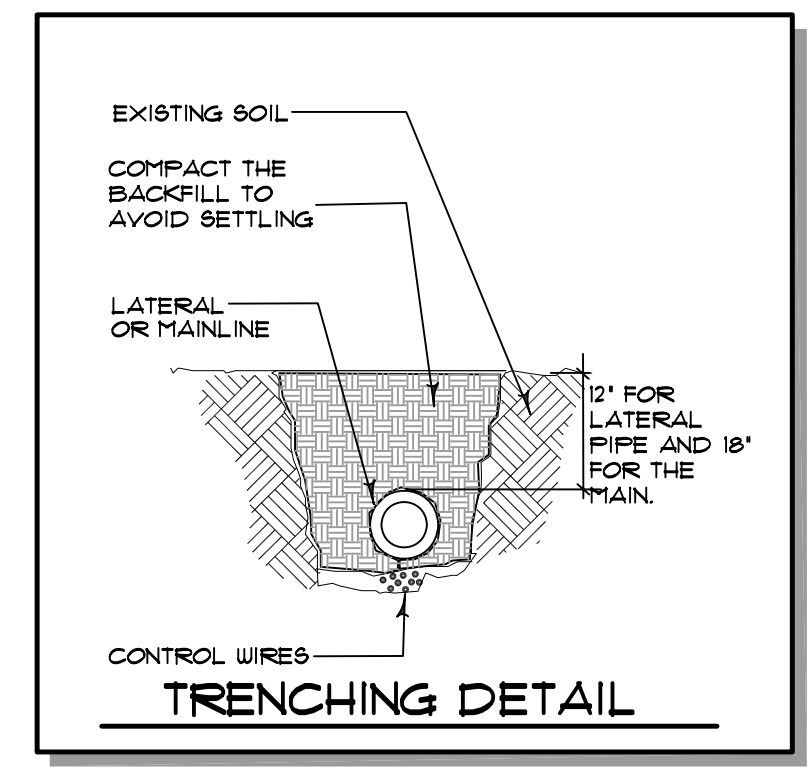
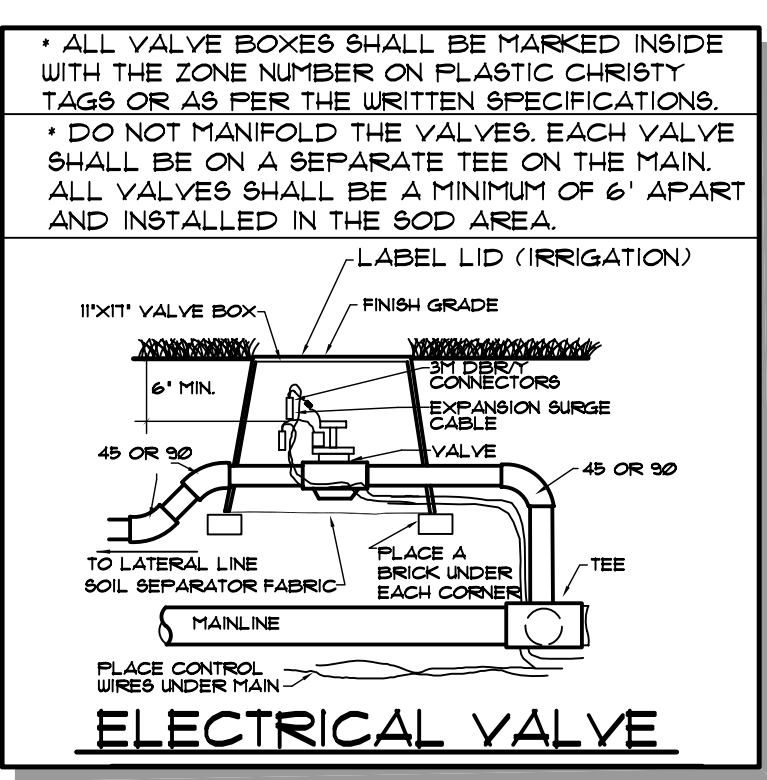
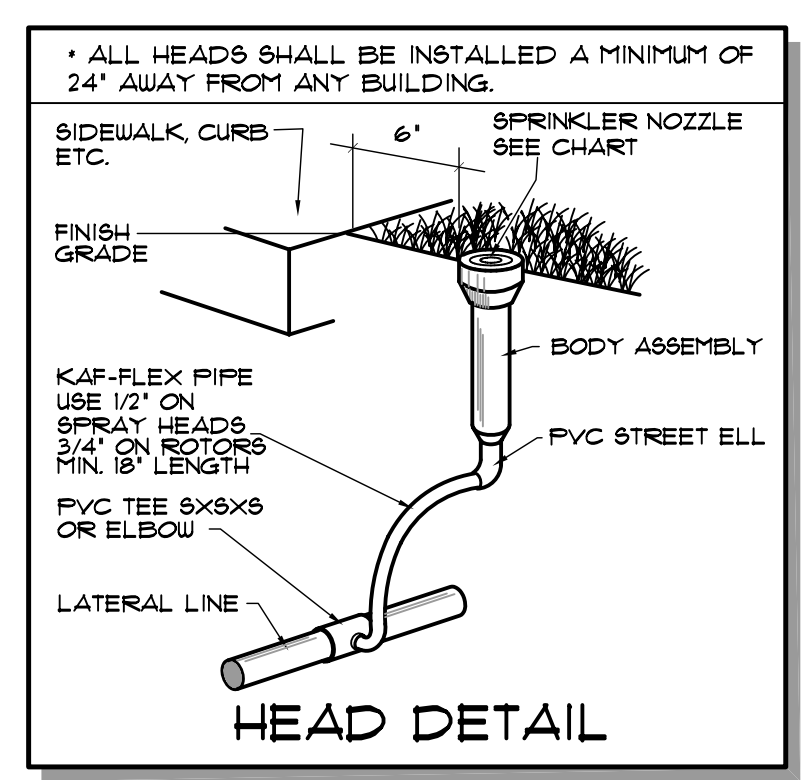
THIS CHART IS PROVIDED AS A GENERAL OUTLINE ONLY AND IS BASED ON PROVIDING APPROXIMATELY 1 INCH OF WATER PER WEEK. THE CONTRACTOR SHALL BE RESPONSIBLE TO SET THE RUN TIMES ON THE CONTROLLER BASED FOR THE SPECIFIC SITE CONDITIONS. THIS SHALL INCLUDE, BUT NOT LIMITED TO SOIL, WEATHER, PLANT NEEDS AND ESTABLISHMENT PERIOD. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CHECK EQUIPMENT QUANTITIES AND SHALL BE RESPONSIBLE TO INSTALL AND INCLUDE IN THE PROPOSAL ALL EQUIPMENT SHOWN ON THE PLAN. THE PLAN OVERRIDES ANY ERRORS IN QUANTITIES.

SYSTEM NOTES

- IRRIGATION SYSTEM IS DESIGNED IN ACCORDANCE WITH REQUIREMENTS OF ORANGE COUNTY CODE CHAPTER 31, SECTIONS 601-619. HUNTER MP ROTATOR NOZZLES ARE USED IN LANDSCAPE BEDS FOR LOW VOLUME APPLICATION AS PER THE APPROVAL OF THE ORANGE COUNTY STAFF.
- NO ZONES ON THE CONTROLLER SHALL BE COMBINED OR RUN AT THE SAME TIME.
- THE IRRIGATION SYSTEM WILL BE PERMANENT FOR THE ESTABLISHMENT OF THE PLANT MATERIAL.

WATER USE NOTES

- THE AREA COVERED BY SPRINKLER HEADS IS 18' X 18' FOR THE BASE BID AND 24' X 24' FOR THE BID ALTERNATE.
- THE WATER USE IS 3.560 GPM FOR THE BASE BID AND 1.560 FOR THE BID ALTERNATE IN GALLONS PER WEEK FOR 1" OF WATER.
- THE TOTAL RUNNING TIME IS 5 HR PER WEEK OF A MAX. 36 HR AVAILABLE UNDER CURRENT WATER RESTRICTIONS.
- THE NUMBER OF ZONES AND GPM DEMAND IS LISTED IN EACH ZONE CIRCLE.



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IRRIGATOR SPADE DESIGN

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 DESIGN

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SITE IRRIGATION PLAN

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