

PIEDMONT GOODWILL

CITY OF WILDWOOD, FL

GENERAL NOTES:

- ALL ON-SITE WATER & SEWER CONSTRUCTION IS THE OWNER'S RESPONSIBILITY AND NOT THAT OF THE CITY OF WILDWOOD. ALL ON-SITE UTILITIES SHALL COMPLY WITH THE LATEST PLUMBING CODE APPROVED BY THE CITY OF WILDWOOD.
- NO CHANGE TO THE WORK AS SHOWN ON THESE PLANS SHALL BE MADE WITHOUT PRIOR APPROVAL BY THE CITY OF WILDWOOD AND THE PROJECT ENGINEER.
- AN AS-BUILT CERTIFICATION SHALL BE PROVIDED TO THE CITY OF WILDWOOD BY A DESIGN PROFESSIONAL UPON REVIEW AND APPROVAL OF THE COMPLETED CONSTRUCTION.
- REFER TO SHEET 5 FOR SLEEVES.
- LONDON ENGINEERING & ASSOCIATES, INC. AND ITS EMPLOYEES ARE NOT RESPONSIBLE FOR ON-SITE SAFETY DURING CONSTRUCTION.
- BUILDING AND PARKING SHALL BE HANDICAP ACCESSIBLE PER AMERICANS WITH DISABILITIES ACT (ADA), LATEST EDITION, AND CHAPTER 11 F.B.C. VERIFY BUILDING DIMENSIONS AND DOOR LOCATIONS WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION.
- THE ESTIMATED DOMESTIC SEWAGE FLOW AND ESTIMATED POTABLE WATER DEMAND IS 26,568 S.F. x 0.10 GAL/S.F.= 2,657 G.P.D.
- ALL DIMENSIONS AND RADII ARE REFERENCED TO FACE OF CURB OR WALK AS APPLICABLE.
- THE CONTRACTOR SHALL VERIFY THE LOCATION AND COVER OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION AND REPORT ANY DISCREPANCY TO THE PROJECT ENGINEER. THERE MAY BE ADDITIONAL UTILITIES NOT SHOWN ON THESE PLANS. CAUTION IS ADVISED PRIOR TO DIGGING.
- THE STORM SEWER SYSTEM AND DRAINAGE RETENTION AREAS SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF IMPERVIOUS AREAS.
- THE SITE SHALL REMAIN FREE OF EXCESS DUST AND DEBRIS AT ALL TIMES. ANY INCIDENCE OF EROSION, SEDIMENTATION, DUST OR DEBRIS OCCURRING OFF-SITE AS A RESULT OF CONSTRUCTION ACTIVITIES ON THIS DEVELOPMENT SHALL BE CORRECTED BY THE CONTRACTOR IMMEDIATELY (FOR EACH OCCURRENCE).
- IF UNSUITABLE MATERIAL IS ENCOUNTERED WITHIN THE PROPOSED PARKING LOT, TWO (2) FEET OF UNDERCUT BELOW THE PROPOSED LIMEROCK BASE TOGETHER WITH SUITABLE BACKFILL MATERIAL IS REQUIRED. THE CONTRACTOR SHOULD PROVIDE A UNIT PRICE IN HIS INITIAL BID, AND HE SHALL NOTIFY THE PROJECT ENGINEER WHEN UNSUITABLE MATERIAL IS ENCOUNTERED. BEFORE PROCEEDING WITH ANY WORK RELATED TO UNSUITABLE MATERIAL, THE CONTRACTOR IS ADVISED TO CONTACT A LICENSED GEOTECHNICAL ENGINEER TO DETERMINE THE SUITABILITY OF THE INSITU SOIL AND THE AREA OF UNDERCUT THAT IS REASONABLY REQUIRED.
- ASPHALT PAVEMENT SUBJECT TO HEAVY/SEMI-TRUCK TRAFFIC IS SHOWN SHADED DARKER AND SHALL BE 1 1/2"-THICK (F.D.O.T. TYPE S-I) ON 10" LIMEROCK BASE (98% MAX DENSITY, 100 LBR), ON 12" (F.D.O.T. TYPE B) STABILIZED SUBGRADE (98% MAX DENSITY, 40 LBR). ASPHALT PAVEMENT SUBJECT TO LIGHT/AUTO TRAFFIC IS SHOWN SHADED LIGHTER AND SHALL BE 1 1/4"-THICK (F.D.O.T. TYPE S-II) ON 6" LIMEROCK BASE (98% MAX DENSITY, 100 LBR), ON 12" (F.D.O.T. TYPE B) STABILIZED SUBGRADE (98% MAX DENSITY, 40 LBR). CONSTRUCTION REQUIREMENTS OF THE F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2013 SHALL GOVERN.
- ALL STRIPING MUST BE 6". ALL PAVED PARKING STALLS SHALL BE STRIPED WITH 6" WHITE LINES. HANDICAP SPACE(S) SHALL BE SIGNED AND SHALL HAVE 6" BLUE LINES ADDED INSIDE EACH SPACE. STRIPING IS TO BE PAINT; EXCEPT FOR STOP BARS, STOP MESSAGES, AND TRAFFIC ARROWS TO BE LEAD-FREE THERMOPLASTIC. ALL WORK IS TO BE IN ACCORDANCE WITH F.D.O.T. STANDARDS.
- MINIMUM STRENGTH FOR ALL CONCRETE ON SITE SHALL BE 3000 P.S.I. AT 28 DAYS UNLESS OTHERWISE NOTED.
- ALL SIGN POLES TO BE U-CHANNEL GALVANIZED STEEL 2lbs/L.F. BREAKAWAY POSTS.
- CONTRACTOR MUST COORDINATE TELEPHONE AND ELECTRICAL SERVICE (AND CATV). ANY NON-CONDUCTIVE UNDERGROUND WATER LINES SHALL BE INSTALLED WITH LOCATOR WIRE. THE ONLY UNDERGROUND UTILITIES THAT NEED TO BE INSPECTED BY THE CITY OF WILDWOOD ARE THOSE ASSOCIATED WITH THE BUILDING PERMIT.
- ALL AREAS DISTURBED AND NOT PAVED DURING CONSTRUCTION SHALL BE FINISH GRADED, COMPACTED TO 90% MAXIMUM DENSITY, SODDED (ARGENTINE BAHIA), AND REVEGETATED IN ACCORDANCE WITH THE LANDSCAPE PLAN. ALLOW FOR THICKNESS OF SOD WITH A 2" UNDERCUT. ANY DISTURBANCE WITHIN PUBLIC R/W SHALL BE SODDED.
- IF A SINKHOLE SHOULD FORM ON THIS SITE, ALL APPLICABLE REPAIR PROCEDURES SHALL BE FOLLOWED AS OUTLINED IN THE TYPICAL SINK CHIMNEY REPAIR DETAIL. CONTACT PROJECT ENGINEER.
- THERE ARE NO WETLANDS ON THIS SITE.
- TYPE-III SILT FENCE SHALL BE INSTALLED AS SHOWN ON THESE PLANS PRIOR ANY SITE DEVELOPMENT. FENCE SHALL BE MAINTAINED DURING LIFE OF CONSTRUCTION PROJECT AND REMOVED AFTER COMPLETION OF CONSTRUCTION.
- ALL MATERIALS, MACHINERY, AND VEHICLES SHALL BE STORED ON SITE IN AN ORGANIZED FASHION. THE PROJECT AREA SHALL SERVE AS THE LIMITS OF THE STAGING AREA FOR THE DURATION OF CONSTRUCTION.
- COPIES OF ALL PERMITS FROM APPLICABLE REGULATORY AGENCIES SHALL BE PROVIDED TO THE CITY WHEN AVAILABLE AND PRIOR TO ISSUANCE OF A BUILDING PERMIT.
- THE SITE CONTRACTOR SHALL INCLUDE AN AS-BUILT SURVEY IN HIS CONTRACT, AND SHALL RETAIN THE SERVICE OF PREECE LAND SURVEYING, INC. (352-351-0091) TO PERFORM THE WORK AND PROVIDE A DRAWING TO THE PROJECT ENGINEER FOR HIS USE IN CERTIFYING TO THE COMPLETION OF THE PROJECT PRIOR TO C.O.

DESIGN TEAM:

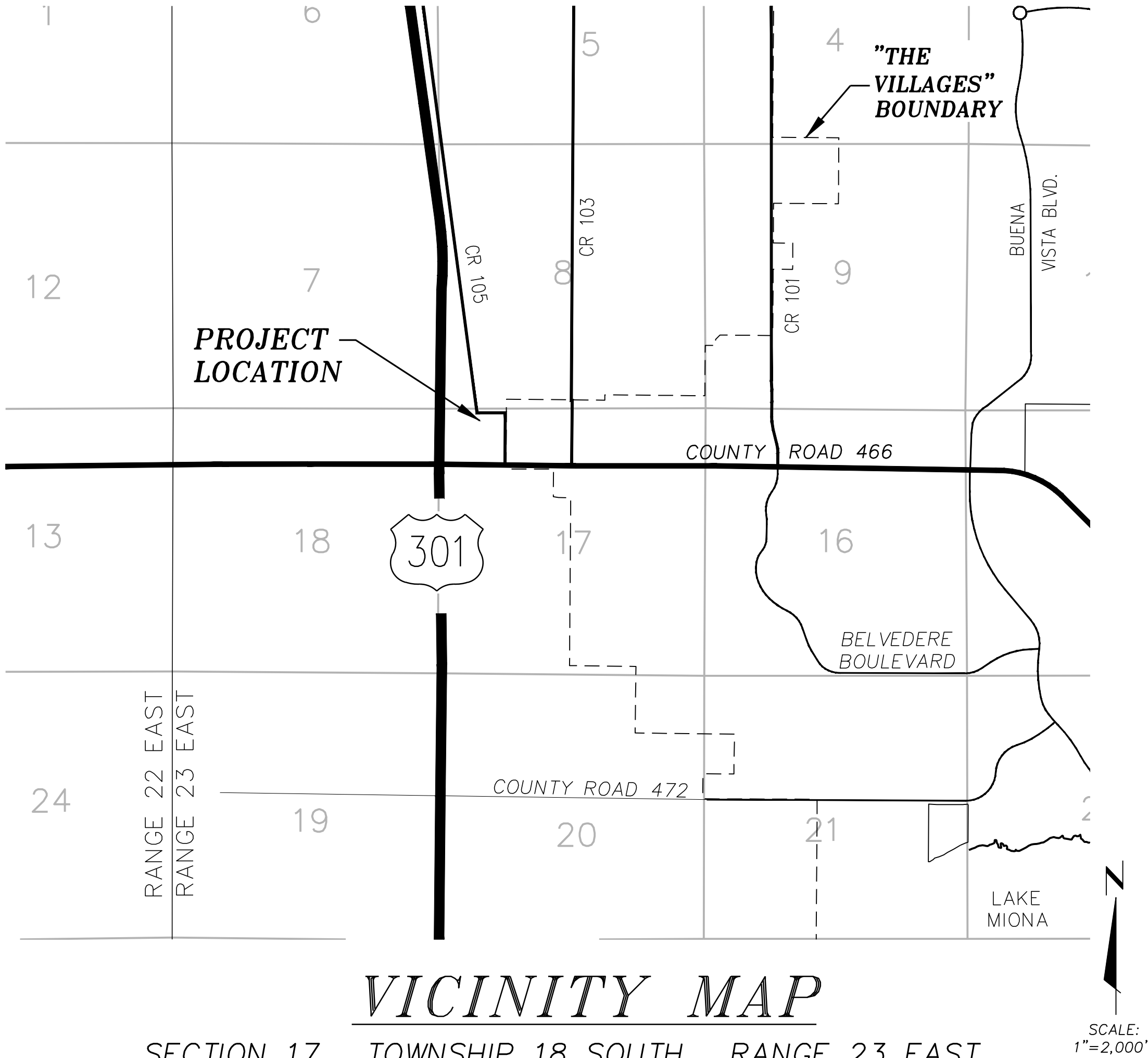
SURVEYOR.....PREECE LAND SURVEYING, INC.....352-351-0091
ARCHITECT.....ARTISTIC SOLUTIONS HALO, INC.....813-495-0917
CIVIL ENGINEER.....LONDON ENGINEERING & ASSOCIATES, INC.....352-690-9551

UTILITY PROVIDERS:

WATER.....CITY OF WILDWOOD.....BRUCE PHILLIPS 352-330-1346
SEWER.....CITY OF WILDWOOD.....BRUCE PHILLIPS 352-330-1346
ELECTRIC.....SECO.....DANNY E. BOYETT 352-793-3801 EXT. 1330
CABLE TV.....COMCAST CABLE.....SCOTT OSEBOLD 352-315-8527
NATURAL GAS.....TECO-PEOPLES GAS.....CHUCK HUMPHREY 352-427-0743
TELEPHONE.....CENTURYLINK.....MARK HOEVENAIR 352-326-1297



48 HOURS BEFORE YOU DIG
CALL SUNSHINE
DIAL: 811
IT'S THE LAW IN FLORIDA



VICINITY MAP

SECTION 17, TOWNSHIP 18 SOUTH, RANGE 23 EAST

INDEX OF SHEETS:

SHEET	DESCRIPTION
1	TITLE SHEET
2	DEMOLITION & TREE CLEARING
3	GEOMETRY PLAN
4	GRADING PLAN
5	UTILITY PLAN
6	UTILITY DETAILS
7	LANDSCAPING PLAN
8	EROSION AND SEDIMENT CONTROL PLAN
1	MAP OF SURVEY

AGENCY APPROVALS				
AGENCY	TYPE PERMIT	SUBMITTAL TYPE	APPROVAL DATE	PERMIT NO.
CITY OF WILDWOOD	SITE PLAN			
S.W.F.W.M.D.	E.R.P.			
F.D.E.P.	N.P.D.E.S.			
SUMTER COUNTY	DRIVEWAY			

LEGAL DESCRIPTION:

BEGIN AT THE NORTHEAST CORNER OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4, RUN SOUTH ON QUARTER SECTION LINE 103 YARDS; THENCE WEST TO RAILROAD; THENCE NORTH ALONG RAILROAD TO A POINT 188 YARDS WEST OF BEGINNING; THENCE RUN EAST TO POINT OF BEGINNING.

AND

LOT 1, POWELLS ACRES, ACCORDING TO THE MAP OR PLAT THEREOF, AS RECORDED IN PLAT BOOK 3, PAGE 64, OF THE PUBLIC RECORDS OF SUMTER COUNTY, FLORIDA.

**NOTE: THE ABOVE DESCRIBED LANDS ARE CONTIGUOUS WITHOUT GAPS OR GORES.

SURVEY NOTICE:

SEE MAP OF SURVEY BY PREECE LAND SURVEYING, INC. SHOWING BEARINGS & DISTANCES, MONUMENTATION, FLOOD NOTE, ETC.

GENERAL STATEMENT:

THE CHARACTER AND INTENDED USE OF THIS DEVELOPMENT SHALL BE TO CONSTRUCT A GOODWILL RETAIL STORE AND DONATION CENTER TOGETHER WITH ALL REQUIRED IMPROVEMENTS SHOWN HEREON.

SITE DATA:

OWNER:.....PIEDMONT COMPANIES, INC.
2671 EAST MAIN STREET
LINCOLNTON, NC 28092
(919) 807-2000

SITE ADDRESS:.....C.R. 105

ZONING:.....C-3 GENERAL COMMERCIAL - HIGHWAY

LAND USE:.....COMMERCIAL

TOTAL SITE AREA:.....201,583 S.F. = 4.63 ACRES (100%)

STANDARD SETBACKS:.....FRONT = 25' REAR = 15' SIDE = 15'

PROPOSED BUILDING AREA:.....±26,568 S.F. (13.2%)

TOTAL PROJECT IMPERVIOUS AREA:.....129,044 S.F. (64.0%)

TOTAL PROJECT OPEN AREA:.....48,434 S.F. (24.0%) (NOT INCLUDING D.R.A.'S)

SOIL TYPE:.....SAND/FINE SAND

ESTIMATED WET AND SEASONAL GROUND WATER LEVEL:..81.83'

EMPLOYEES:.....55

DRAINAGE SUMMARY:

THE STORMWATER RUNOFF FROM THE PROPOSED DEVELOPMENT WILL BE CONVEYED VIA SHEET FLOW, SWALES, AND THE STORM SEWER NETWORK TO TWO ON-SITE DRAINAGE RETENTION AREAS (D.R.A.'S). THE ON-SITE D.R.A.'S ARE OF ADEQUATE SIZE TO ACCOMMODATE ALL OF THE RUNOFF VOLUME FROM THE PROPOSED DEVELOPMENT IN A 100-YEAR 24-HOUR STORM EVENT WITH A PEAK STAGE ELEVATION OF 93.41, AND WILL BE CONNECTED VIA THE STORM SEWER NETWORK TO FUNCTION AS ONE. SEE SHEET 4, GRADING PLAN, FOR SOIL TESTING RESULTS AND DRAINAGE CALCULATIONS.

PARKING CALCULATIONS:

PARKING REQUIRED:
±26,568 S.F. RETAIL @ 4 SPACES/1,000 S.F.:.....= 106.3 SPACES
TOTAL = 107 SPACES

PARKING PROVIDED:
STANDARD SPACES.....= 122 SPACES
HANDICAP SPACES.....= 8 SPACES
TOTAL = 130 SPACES

ENGINEER'S CERTIFICATION:

I HEREBY CERTIFY THAT THE REQUIREMENTS OF THE D.E.P. AND S.W.F.W.M.D. HAVE BEEN MET TO THE BEST OF MY KNOWLEDGE AND BELIEF.

JOSEPH C. LONDON, P.E. #33694

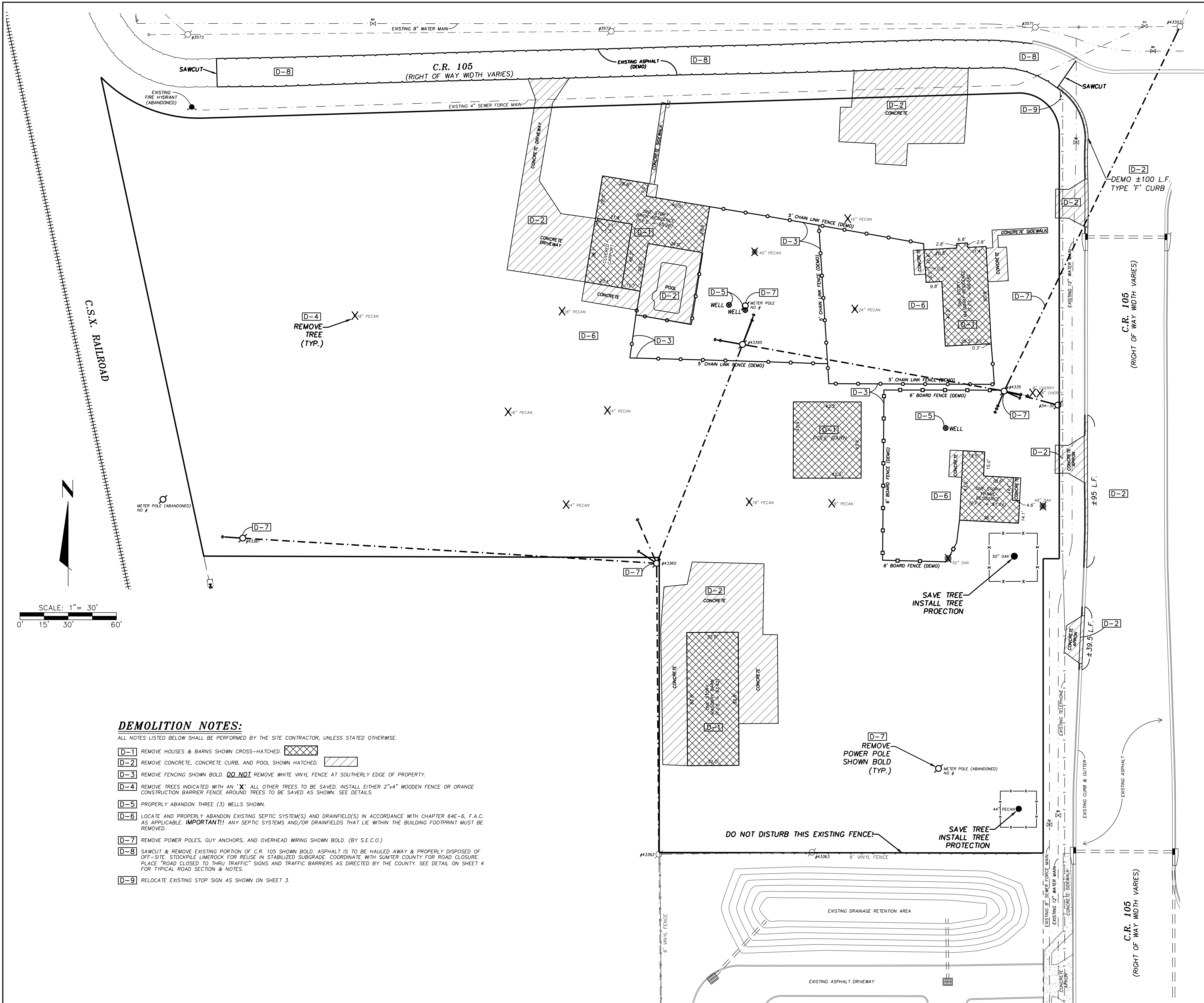
DATE

TITLE SHEET

LONDON ENGINEERING
and Associates, Inc.
2201 S.E. 30th Avenue, Suite 101 Ocala, Florida 34471
Phone: (352) 690-9551 Fax: (352) 690-6171
CERTIFICATE OF AUTHORIZATION #5308
JOSEPH C. LONDON, P.E. #33694

PIEDMONT GOODWILL
CITY OF WILDWOOD, FLORIDA

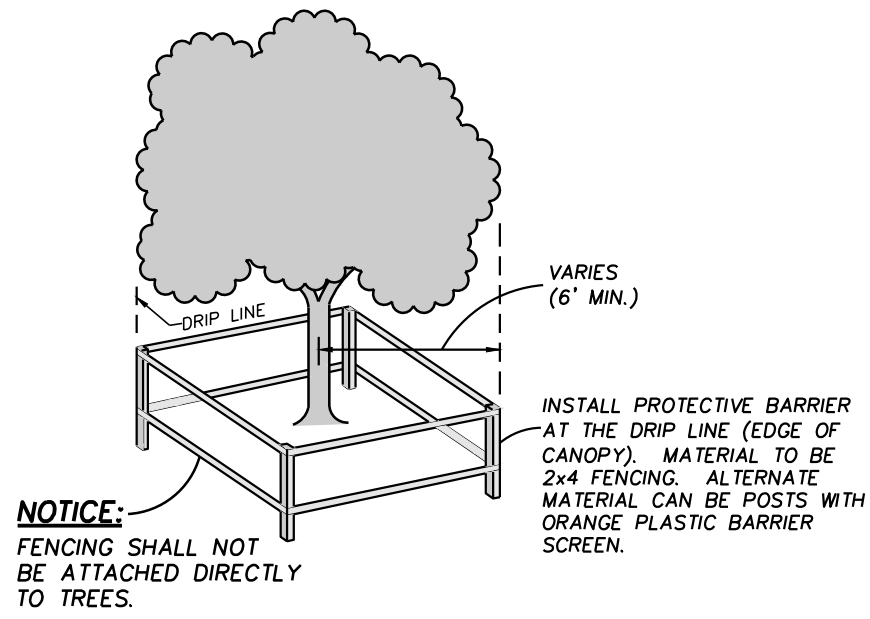
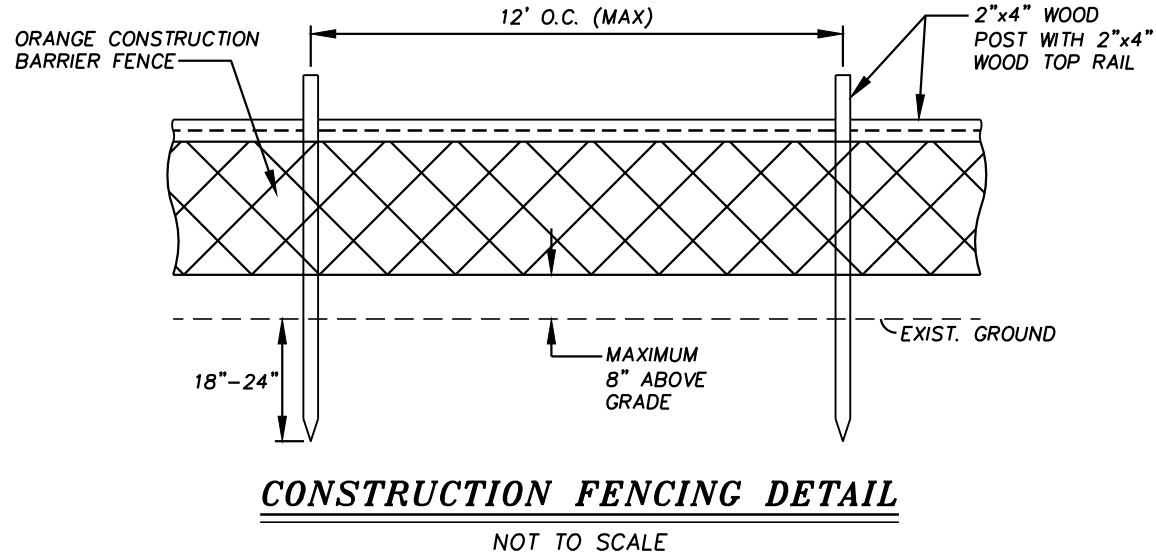
SHEET 1 OF 8



DEMOLITION NOTES:

ALL NOTES LISTED BELOW SHALL BE PERFORMED BY THE SITE CONTRACTOR, UNLESS STATED OTHERWISE.

- D-1** REMOVE HOUSES & BARNs SHOWN CROSS-HATCHED.
- D-2** REMOVE CONCRETE, CONCRETE CURB, AND POOL SHOWN HATCHED.
- D-3** REMOVE FENCING SHOWN BOLD. **DO NOT** REMOVE WHITE VINYL FENCE AT SOUTHERLY EDGE OF PROPERTY.
- D-4** REMOVE TREES INDICATED WITH AN "X". ALL OTHER TREES TO BE SAVED. INSTALL EITHER 2"x4" WOODEN FENCE OR ORANGE CONSTRUCTION BARRIER FENCE AROUND TREES TO BE SAVED AS SHOWN. SEE DETAILS.
- D-5** PROPERLY ABANDON THREE (3) WELLS SHOWN.
- D-6** LOCATE AND PROPERLY ABANDON EXISTING SEPTIC SYSTEM(S) AND DRAINFIELD(S) IN ACCORDANCE WITH CHAPTER 64E-6, F.A.C. AS APPLICABLE. **IMPORTANT!!!** ANY SEPTIC SYSTEMS AND/OR DRAINFIELDS THAT LIE WITHIN THE BUILDING FOOTPRINT MUST BE REMOVED.
- D-7** REMOVE POWER POLES, GUY ANCHORS, AND OVERHEAD WIRING SHOWN BOLD. (BY S.E.C.O.)
- D-8** SAWCUT & REMOVE EXISTING PORTION OF C.R. 105 SHOWN BOLD. ASPHALT IS TO BE HAULED AWAY & PROPERLY DISPOSED OF OFF-SITE. STOCKPILE LIMEROCK FOR REUSE IN STABILIZED SUBGRADE. COORDINATE WITH SUMTER COUNTY FOR ROAD CLOSURE. PLACE "ROAD CLOSED TO THRU TRAFFIC" SIGNS AND TRAFFIC BARRIERS AS DIRECTED BY THE COUNTY. SEE DETAIL ON SHEET 4 FOR TYPICAL ROAD SECTION & NOTES.
- D-9** RELOCATE EXISTING STOP SIGN AS SHOWN ON SHEET 3.

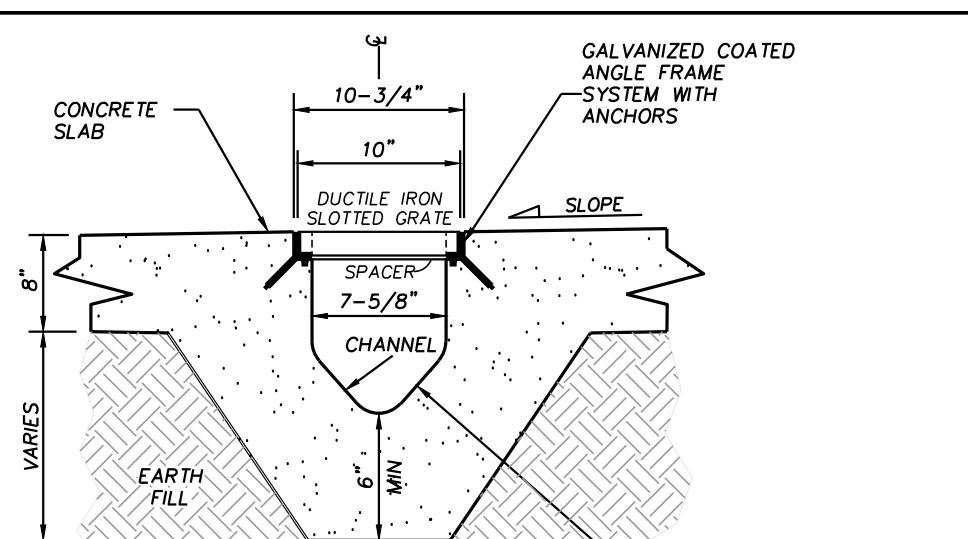
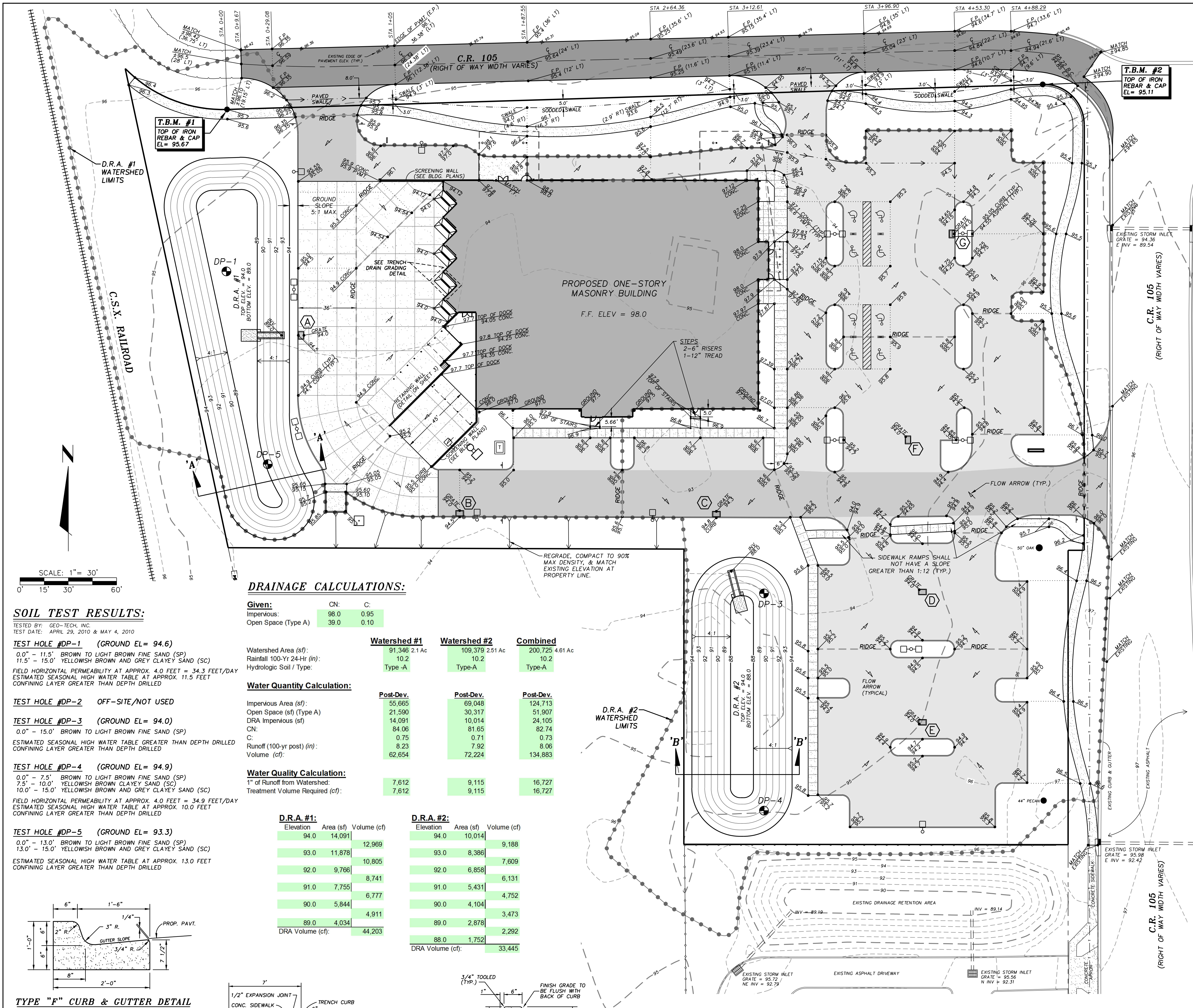


APPROPRIATE PROTECTIVE MEASURES SHALL BE TAKEN TO PREVENT THE DESTRUCTION OR DAMAGE OF ALL TREES TO BE RETAINED ON THE SITE. NO MATERIALS, MACHINERY, TEMPORARY SOIL DEPOSITS, ADDITIONAL FILL, OR ASPHALT PAVEMENT FOR VEHICULAR CIRCULATION SHALL BE PLACED ANY CLOSER TO ANY TREE THAN THE DRIP LINE. NO ATTACHMENTS OF WIRES, EXCEPTING PROTECTIVE GUIDE WIRES, SHALL BE ATTACHED TO ANY TREE. NO CHANGE OF GRADE MORE OR LESS THAN 6" INCHES MAY BE MADE WITHIN THE DRIP LINE OF A TREE UNLESS SHOWN ON THE APPROVED SITE DEVELOPMENT PLAN.

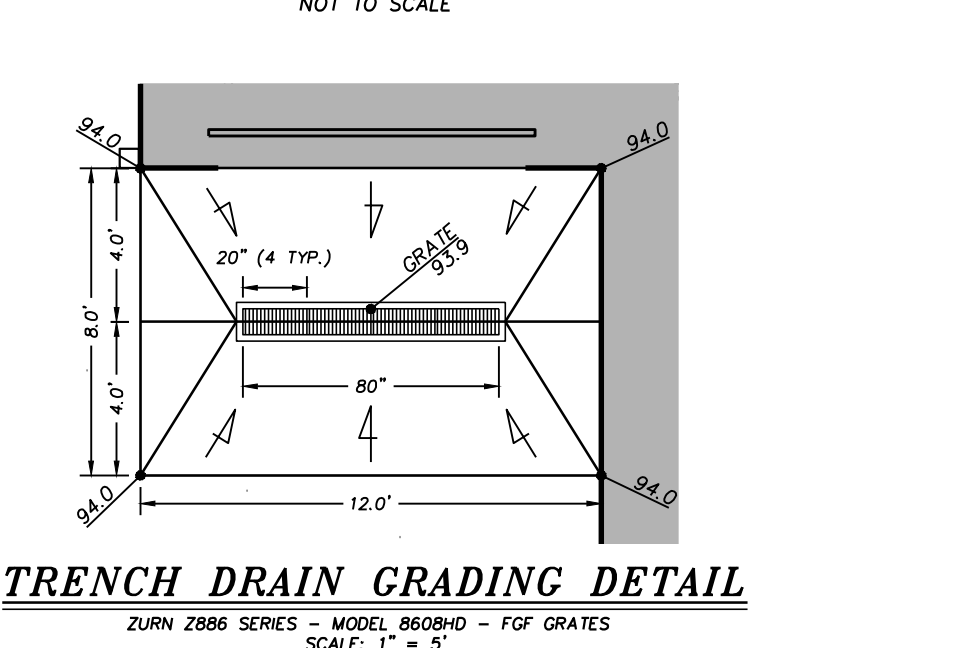
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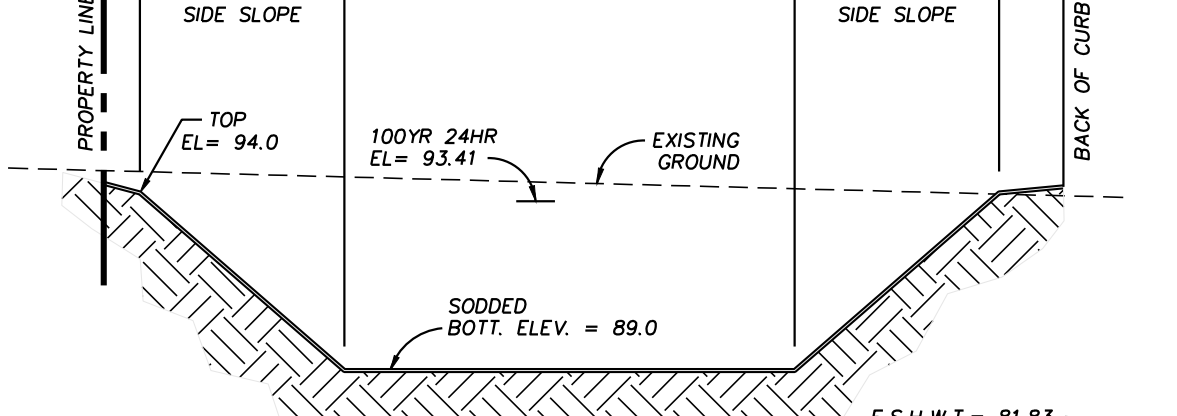
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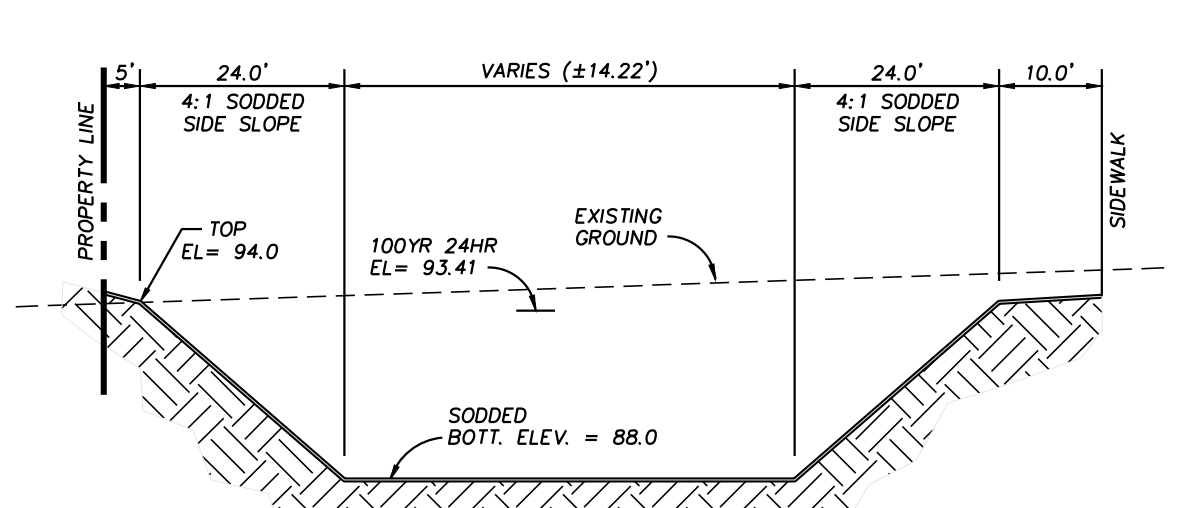
TRENCH DRAIN DETAIL
NOT TO SCALE



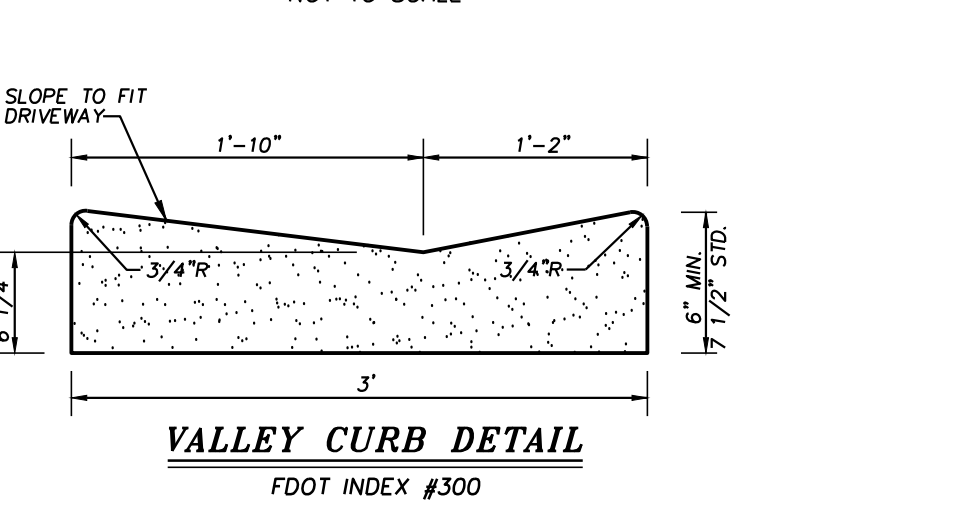
TRENCH DRAIN GRADING DETAIL
ZURN Z886 SERIES - MODEL 8608HD - FG GRATES
SCALE: 1" = 5'



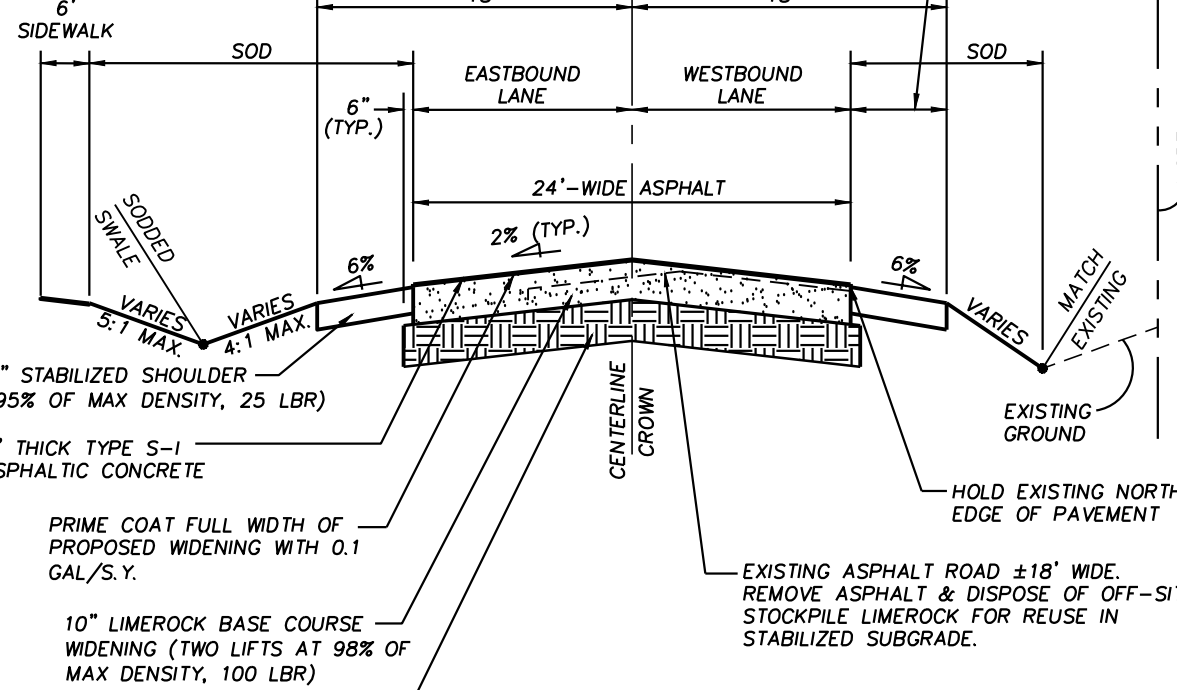
D.R.A. #1 CROSS SECTION 'A'-A'
NOT TO SCALE



D.R.A. #2 CROSS SECTION 'B'-B'
NOT TO SCALE



VALLEY CURB DETAIL
FDOT INDEX #300



TYPICAL ROADWAY SECTION - RECONSTRUCT C.R. 105

NOTES
1. IF THE ROAD CONTRACTOR ENCOUNTERS ANY SOIL THAT NEEDS TO BE UNDERCUT (OR ROCK THAT NEEDS TO BE REMOVED), HE SHALL CONTACT BOTH THE COUNTY AND PROJECT ENGINEERS BEFORE PROCEEDING.
2. SOD ALL AREAS WITHIN THE R/W AND THE R/W EASEMENT. REFER TO GENERAL NOTE 18.

DRAINAGE CALCULATIONS:

Given:	CN:	C:
Imperious:	98.0	0.95
Open Space (Type A)	39.0	0.10

	Watershed #1	Watershed #2	Combined
Watershed Area (sf):	91,346 2.1 Ac	109,379 2.51 Ac	200,725 4.61 Ac
Rainfall 100-Yr 24-Hr (in):	10.2	10.2	10.2
Hydrologic Soil / Type:	Type-A	Type-A	Type-A

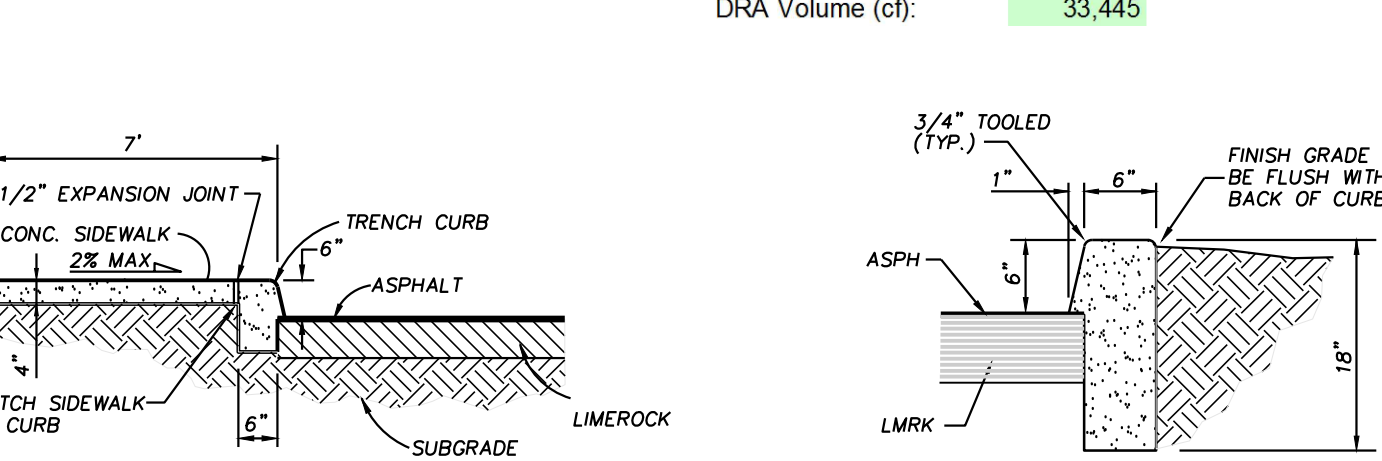
	Post-Dev.	Post-Dev.	Post-Dev.
Imperious Area (sf):	55,665	69,048	124,713
Open Space (sf) (Type A)	21,590	30,317	51,907
DRA Imperious (sf)	14,091	10,014	24,105
CN:	84.06	81.65	82.74
C:	0.75	0.71	0.73
Runoff (100-yr post) (in):	8.23	7.92	8.06
Volume (cf):	62,654	72,224	134,883

	7.612	9.115	16.727
1" of Runoff from Watershed:	7.612	9.115	16.727
Treatment Volume Required (cf):	7.612	9.115	16.727

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1" of Runoff from Watershed:	7.612	9.115	16.727
Treatment Volume Required (cf):	7.612	9.115	16.727

D.R.A. #1:	Elevation	Area (sf)	Volume (cf)
	94.0	14,091	12,969
	93.0	11,878	10,805
	92.0	9,766	8,741
	91.0	7,755	6,777
	90.0	5,844	4,911
	89.0	4,034	3,473
DRA Volume (cf):			44,203

D.R.A. #2:	Elevation	Area (sf)	Volume (cf)
	94.0	10,014	9,188
	93.0	8,386	7,609
	92.0	6,858	6,131
	91.0	5,431	4,752
	90.0	4,104	3,473
	89.0	2,878	2,292
	88.0	1,752	1,584
DRA Volume (cf):			33,445



SIDEWALK, TRENCH CURB, & PAVEMENT DETAIL
(EXCEPT AT HANDICAP SPACE)

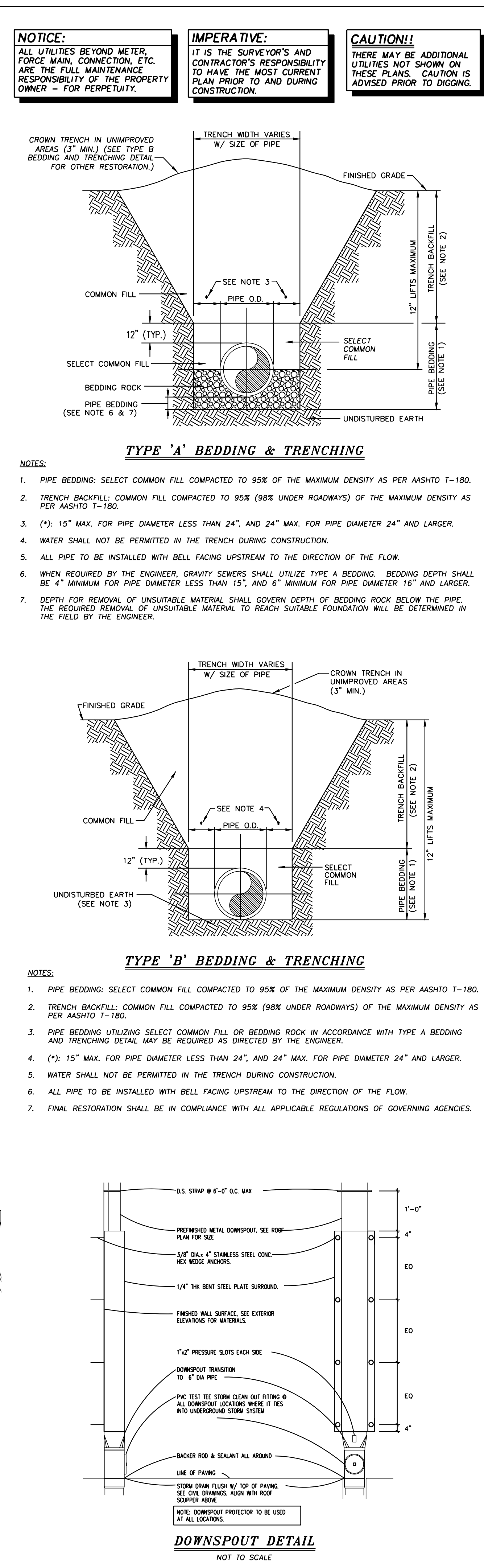
TRENCH CURB DETAIL

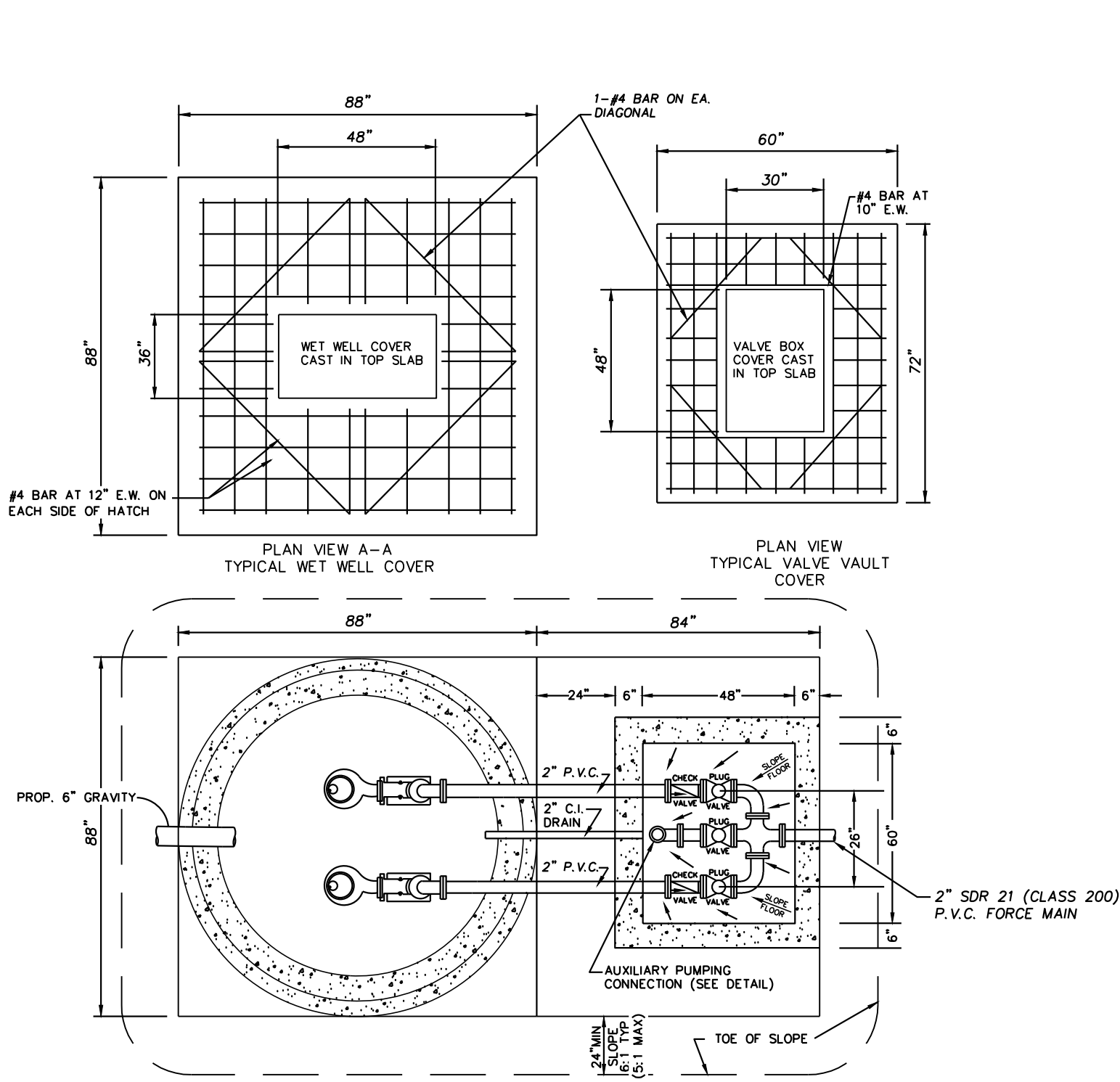
IMPERATIVE:
IT IS THE SURVEYOR'S AND CONTRACTOR'S RESPONSIBILITY TO HAVE THE MOST CURRENT PLAN PRIOR TO AND DURING CONSTRUCTION.

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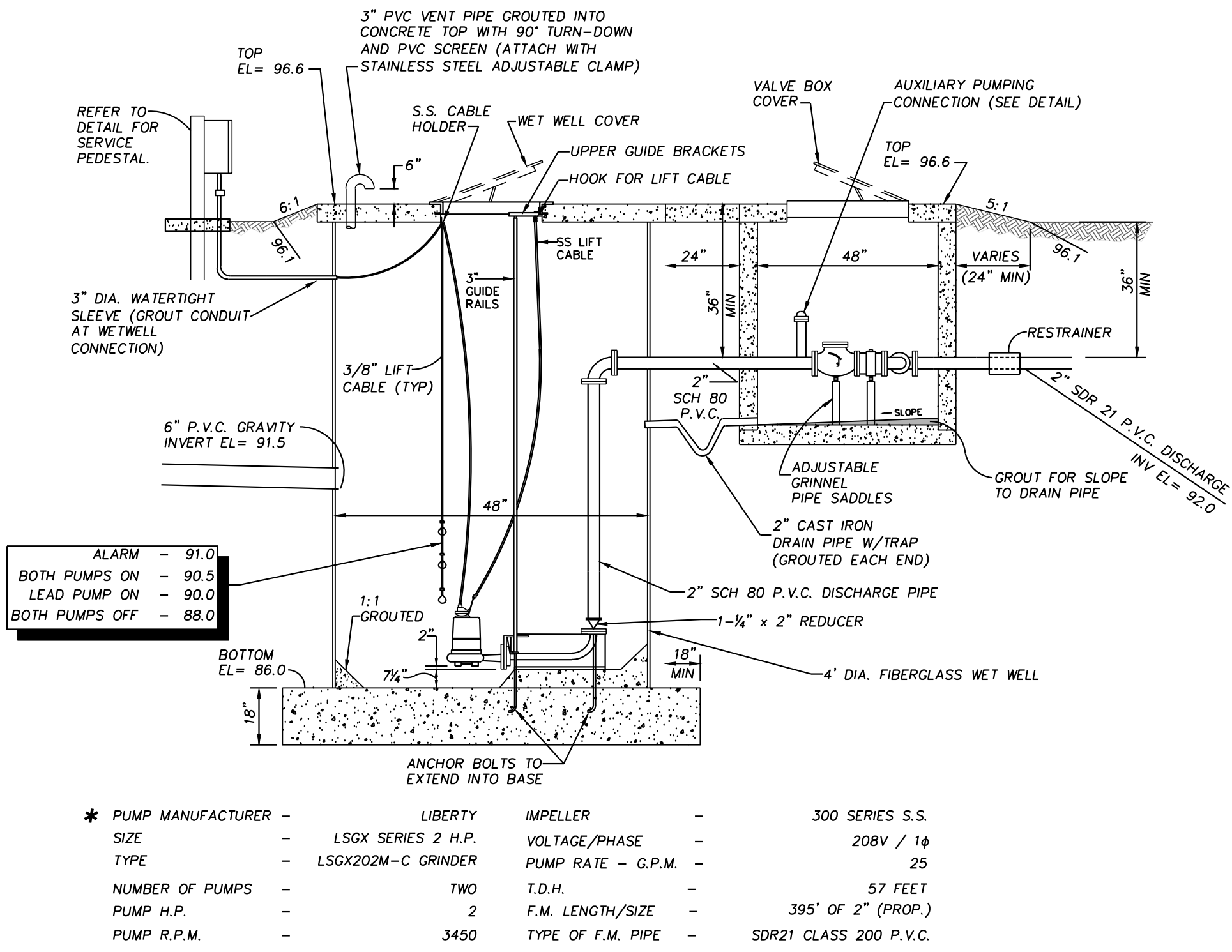
3	CORRECTED TEXT	J.R.H.	04-15-14
2	20' LANDSCAPE BUFFER	J.R.H.	03-31-14
1	PER CITY/COUNTY COMMENTS	J.A.F.	03-24-14
NO	REVISION	BY	DATE
DESIGN	J.C.L./J.A.F.	DATE	02-26-14
DRAW	J.A.F.	PROJECT	13037
CHECK	J.C.L.	FILE	SP313

GRADING PLAN
PIEDMONT GOODWILL
CITY OF WILLOWood, FLORIDA
SHEET 4 OF 8





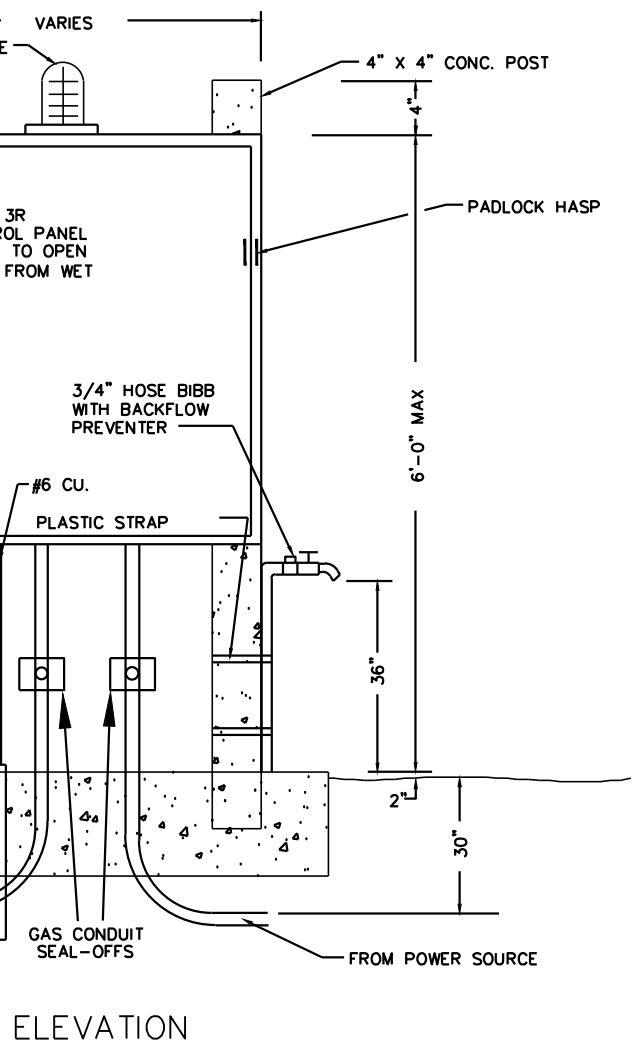
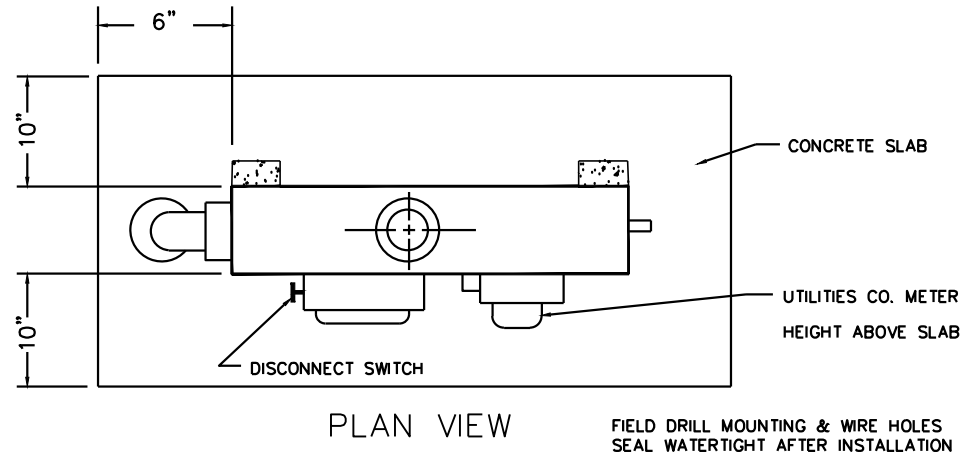
LIFT STATION AND VALVE VAULT DETAIL (PLAN)



LIFT STATION AND VALVE VAULT DETAIL (SECTION)

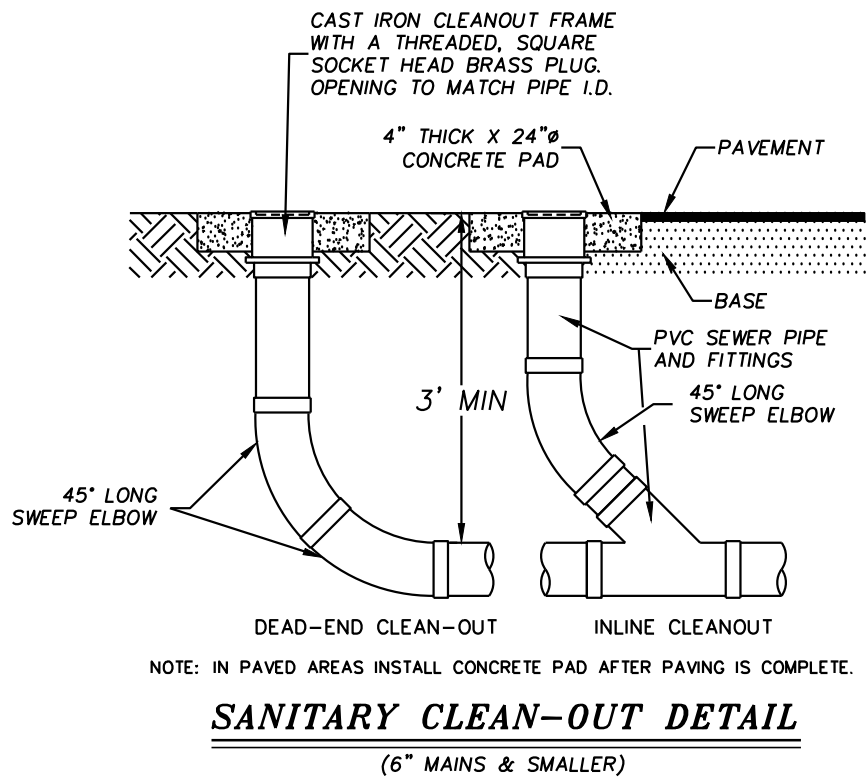
- NOTES**
- ELECTRICAL SERVICE WILL BE BASED ON PROVIDER AVAILABILITY, AND ELECTRICAL ENGINEER'S RECOMMENDATIONS.
 - *INDICATES "OR APPROVED EQUAL".

* PUMP MANUFACTURER	LIBERTY	IMPELLER	300 SERIES S.S.
SIZE	LSGX SERIES 2 H.P.	VOLTAGE/PHASE	208V / 1Ø
TYPE	LSGX202M-C GRINDER	PUMP RATE - G.P.M.	25
NUMBER OF PUMPS	TWO	T.D.H.	57 FEET
PUMP H.P.	2	F.M. LENGTH/SIZE	395' OF 2" (PROP.)
PUMP R.P.M.	3450	TYPE OF F.M. PIPE	SDR21 CLASS 200 P.V.C.

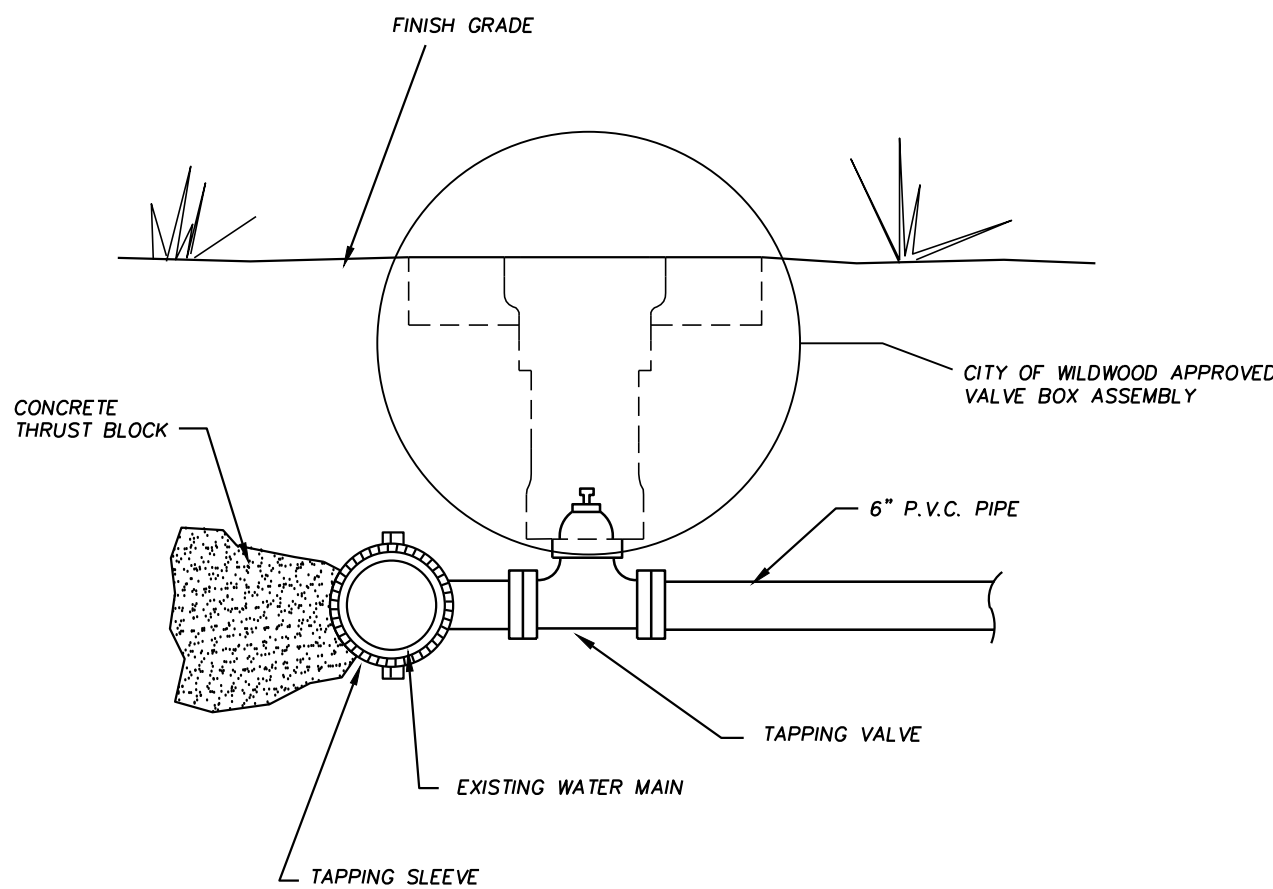


SERVICE PEDESTAL DETAILS

- NOTES**
- LEVEL CONTROLS: PROVIDE MERCURY SWITCH LIQUID LEVEL FLOATS.
 - DOSING PUMP CONTROL: PROVIDE CONTROL PANEL WITH INDIVIDUAL DISCONNECTS, ACROSS THE LINE MAGNETIC STARTERS, THREE POLE OVERLOAD PROTECTION, ELECTRICAL ALTERNATOR, AUTOMATIC TRANSFER TO NON OPERATING PUMP, OVERLOAD RESETS, TERMINAL BOARD WITH CONNECTIONS FOR HIGH LEVEL AND AUDIBLE ALARMS. ALL COMPONENTS ARE HOUSED IN A NEMA 3R ENCLOSURE WITH ALUMINUM DEAD FRONT INNER DOOR PROVIDE FOR PADLOCKING PANEL.
 - ALL ELECTRICAL WORK TO COMPLY w/LATEST ISSUE OF NATIONAL ELECTRICAL CODE.

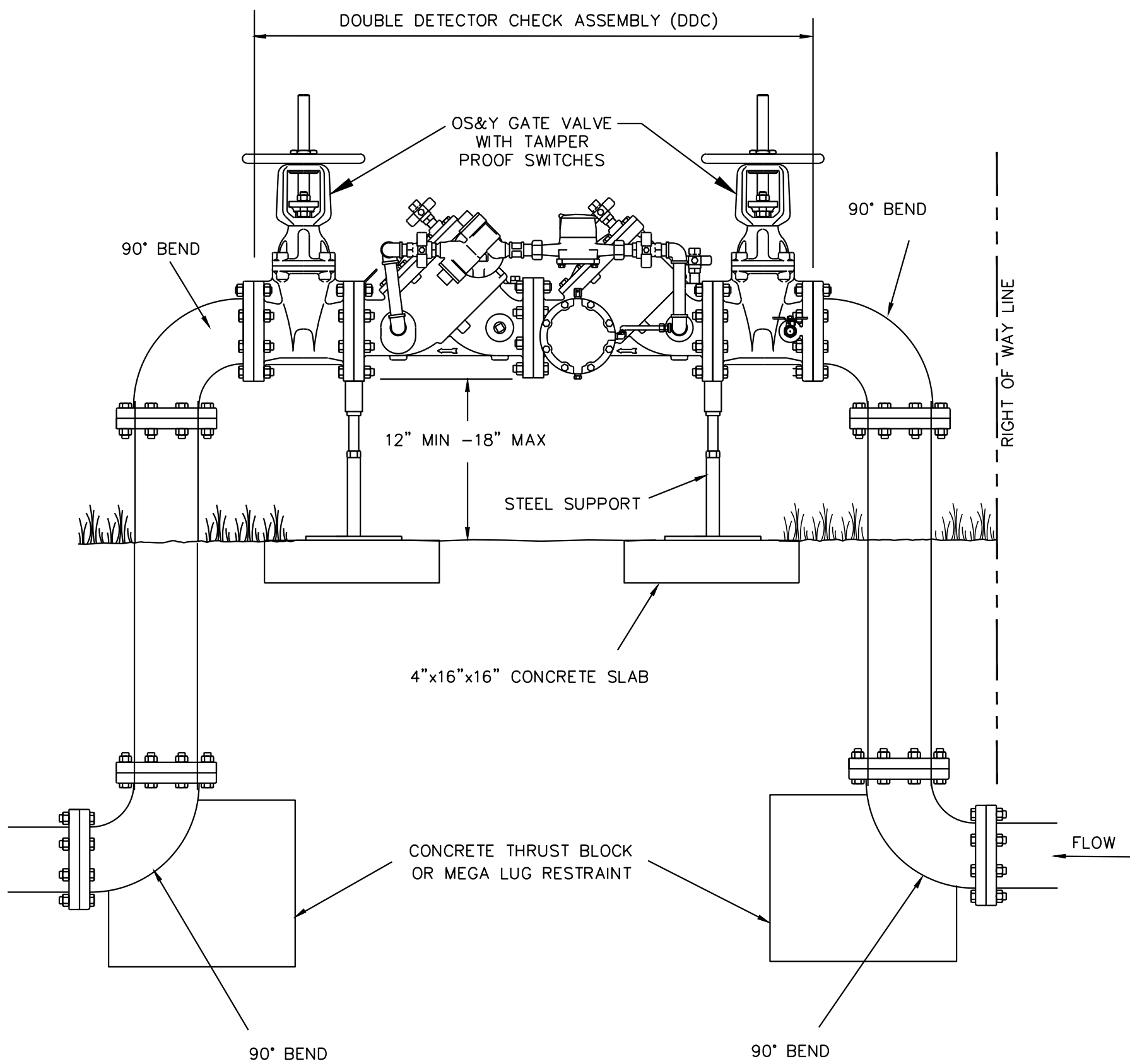


SANITARY CLEAN-OUT DETAIL



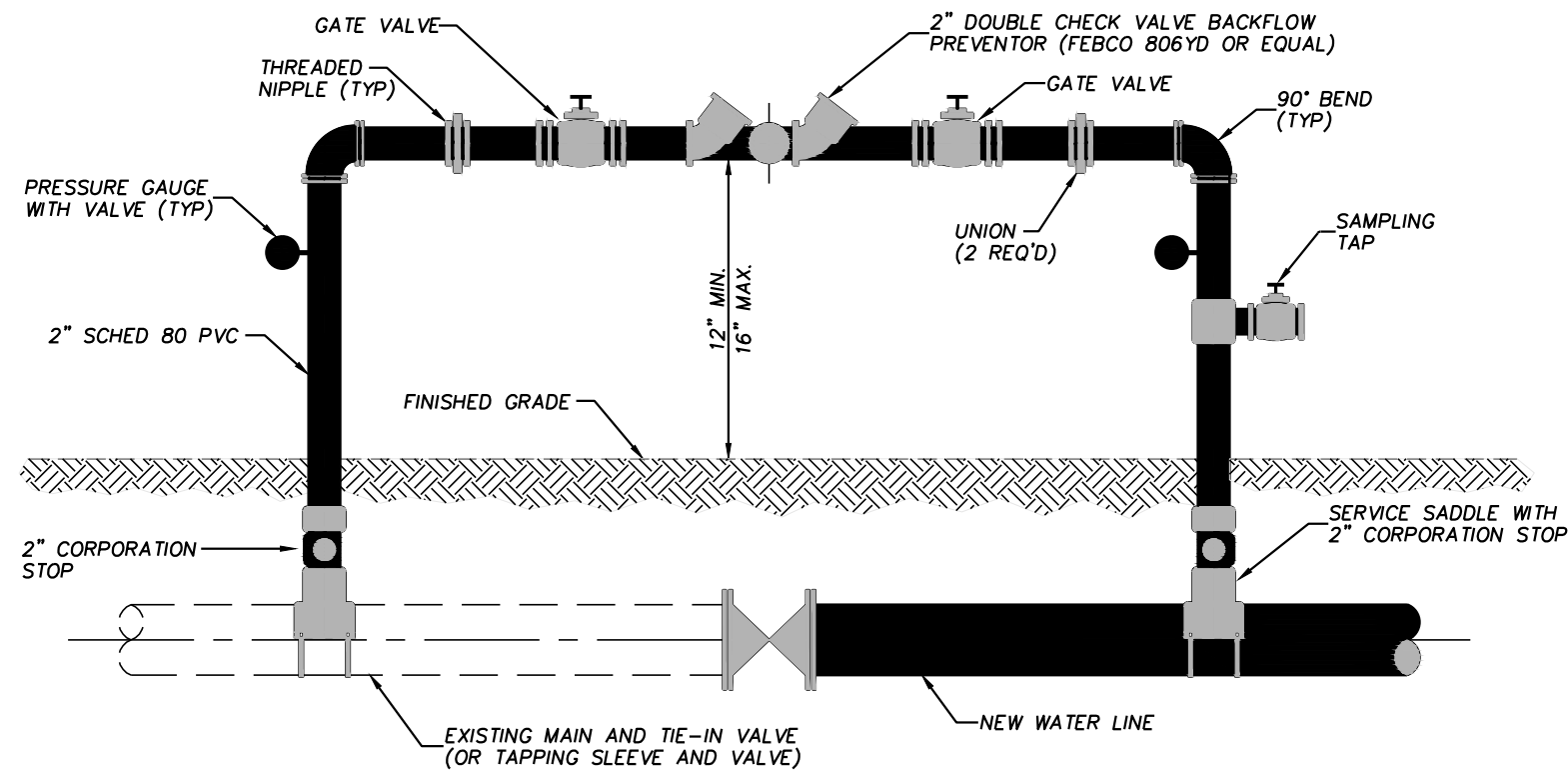
WATER MAIN TAP DETAIL

- NOTES**
- PRESSURE TEST ALL SADDLES AND VALVES PRIOR TO WET TAP.
 - PRESSURE TEST AT 150 PSI, 10-15 MINUTES.



DOUBLE DETECTOR CHECK ASSEMBLY DETAIL

- NOTES**
- FOR FIRE LINES CONTACT CITY FIRE DEPARTMENT FOR ADDITIONAL REQUIREMENTS.
 - ALL ABOVE GROUND PARTS OF THE ASSEMBLY, INCLUDING PIPING, SHALL BE PAINTED RED. PAINT SHALL BE POLYURETHANE "SAFETY RED" OR EQUIVALENT.
 - UNLESS OTHERWISE NOTED, ALL EXPOSED FITTINGS SHALL BE FLANGED AND ALL BURIED FITTINGS SHALL BE MECHANICAL JOINT.



- NOTES**
- A TEMPORARY JUMPER CONNECTION IS REQUIRED AT ALL CONNECTIONS BETWEEN EXISTING ACTIVE WATER MAINS AND PROPOSED WATER MAIN IMPROVEMENTS.
 - THIS DETAIL IS TO BE USED FOR FILLING ANY NEW WATER MAIN AND FOR FLUSHING OF NEW MAINS UP TO 8" DIAMETER (2.5 FPS MINIMUM VELOCITY) AND FOR BACTERIOLOGICAL SAMPLING POINTS AT THE ENDS OF THE PROPOSED MAINS. THE JUMPER CONNECTIONS SHALL BE MAINTAINED UNTIL AFTER FILLING, FLUSHING, TESTING, AND DISINFECTION OF THE PROPOSED MAIN HAS BEEN SUCCESSFULLY COMPLETED AND CLEARANCE FOR USE FROM THE FDEP HAS BEEN RECEIVED. THIS JUMPER CONNECTION SHALL ALSO BE USED TO MAINTAIN A MINIMUM PRESSURE OF 20 PSI IN THE PROPOSED MAINS AFTER DISINFECTION AND UNTIL THE FDEP CLEARANCE LETTER IS OBTAINED.
 - FLUSHING OF THE 10" DIAMETER AND LARGER WATER MAIN MAY BE DONE THROUGH THE TIE-IN VALVE UNDER VERY CONTROLLED CONDITIONS AS FOLLOWS.
 - THE TIE-IN VALVES SHALL BE OPERATED AND PRESSURE TESTED IN THE PRESENCE OF THE UTILITY COMPANY AND ENGINEER TO VERIFY WATER TIGHTNESS PRIOR TO TIE-IN. VALVES WHICH ARE NOT WATER TIGHT SHALL BE REPLACED.
 - THE TEMPORARY JUMPER CONNECTION SHALL BE CONSTRUCTED AS DETAILED. THE JUMPER CONNECTION SHALL BE USED TO FILL THE NEW MAIN AND FOR BACTERIOLOGICAL SAMPLING OF THE NEW MAIN AS REQUIRED BY THE FDEP PERMIT.
 - FLUSHING SHALL NOT BE ATTEMPTED DURING PEAK DEMAND HOURS OF THE EXISTING WATER MAINS.
 - ALL DOWNSTREAM VALVES IN THE NEW SYSTEM MUST BE OPEN PRIOR TO OPENING THE TIE-IN VALVE.
 - MONITOR THE PRESSURE AT THE TIE-IN POINT. THE PRESSURE IN THE EXISTING MAIN MUST NOT DROP BELOW 35 PSI.
 - TIE-IN VALVE SHALL BE OPENED A FEW TURNS ONLY ENSURING A PRESSURE DROP ACROSS THE VALVE IS ALWAYS GREATER THAN 10 PSI.
 - THE TIE-IN VALVE SHALL BE LOCKED CLOSED BY THE UTILITY UNTIL FLUSHING BEGINS.
 - THE TIE-IN VALVE SHALL BE OPENED ONLY FOR FLUSHING OF THE NEW MAIN. THE PROCEDURE SHALL BE DIRECTED BY THE UTILITY AND OBSERVED BY THE ENGINEER.
 - AFTER FLUSHING, THE TIE-IN VALVE SHALL BE CLOSED AND LOCKED IN THE CLOSED POSITION BY THE UTILITY.
 - THE CONTRACTOR SHALL PROVIDE DOCUMENTATION DEMONSTRATING THAT THE DOUBLE CHECK VALVE BACKFLOW PREVENTION DEVICE HAS BEEN TESTED AND IS IN GOOD WORKING ORDER AT THE TIME OF INSTALLATION.
 - EXCEPT AS REQUIRED TO FLUSH LINES GREATER THAN 8" IN DIAMETER, THE TIE-IN VALVE SHALL REMAIN LOCKED CLOSED UNTIL THE NEW SYSTEM HAS BEEN CLEARED FOR USE BY FDEP AND ALL OTHER PERTINENT AGENCIES.
 - UPON RECEIPT OF CLEARANCE FOR USE FROM FDEP, THE CONTRACTOR SHALL REMOVE THE TEMPORARY JUMPER CONNECTION. STOPS ARE TO BE CLOSED AND PLUGGED WITH 2" BRASS PLUGS.
 - ALL INSTALLATION AND MAINTENANCE OF THE TEMPORARY JUMPER CONNECTION AND ASSOCIATED BACKFLOW PREVENTION DEVICE, FITTINGS, VALVE, ETC. SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

TEMPORARY JUMPER CONNECTION DETAIL

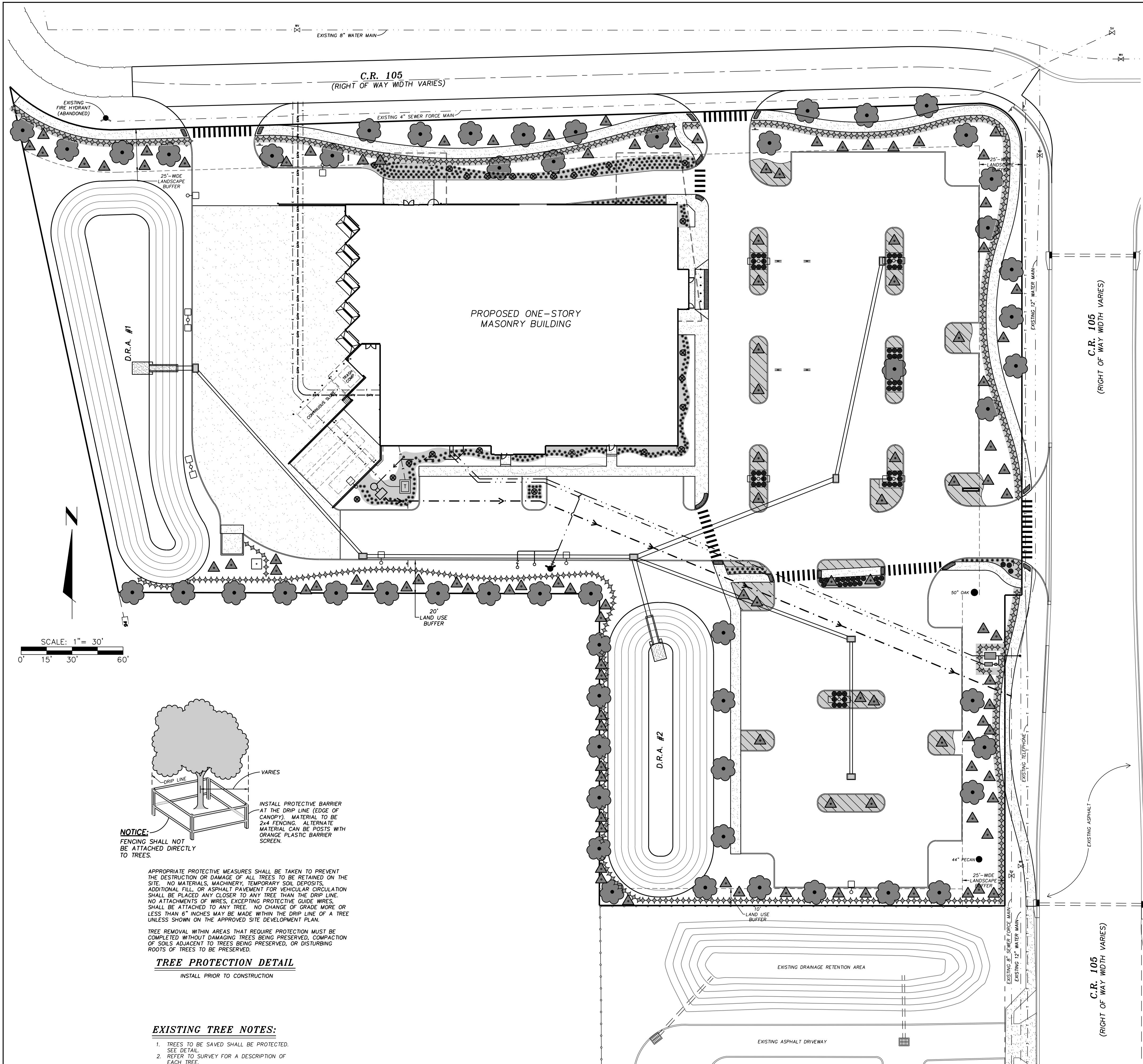
LONDON ENGINEERING and Associates, Inc.
 2201 S.E. 30th Avenue, Suite 101 Ocala, Florida 34471
 Phone: (352) 690-9551 Fax: (352) 690-6171
 CERTIFICATE OF AUTHORIZATION #5308
 JOSEPH C. LONDON, P.E. #33594

NO	REVISION	DATE	BY	DATE
1	PER CITY/COUNTY COMMENTS	J.A.F.	03-24-14	
DESIGN	J.C.L./J.A.F.	DATE	02-26-14	
DRAW	J.A.F.	PROJECT	13037	
CHECK	J.C.L.	FILE	SP313	

UTILITY DETAILS

PIEDMONT GOODWILL

CITY OF WILDWOOD, FLORIDA



IMPERATIVE:
IT IS THE SURVEYOR'S AND
CONTRACTOR'S RESPONSIBILITY
TO HAVE THE MOST CURRENT
PLAN PRIOR TO AND DURING
CONSTRUCTION.

TO SURVEYOR:
CONTACT PROJECT ENGINEER,
PRIOR TO LAYOUT OF
IMPROVEMENTS, TO OBTAIN
COORDINATE DATA.

**TREE & LANDSCAPE AREA
CALCULATIONS:**

AREA = 201,583 S.F. = 4.63 ACRES
EXISTING TREES SAVED = 2
PROPOSED TREES = 52
TOTAL TREES = 54
PROVIDED LANDSCAPED AREA = 48,149 S.F. (DOES NOT INCLUDE DRA'S)

LIGHT SHADE INDICATES MULCH
BEDS WITH GROUNDCOVER
PLANTS. ALSO SEE (LANDSCAPE
AREA NOTES 5, 6 & 7
REGARDING MULCHED AREAS.

PERIMETER 25' LANDSCAPE BUFFER:

LENGTH = 1,012 L.F.
REQUIRED TREES = 30 CANOPY TREES & 51 UNDERSTORY TREES
CANOPY TREES SAVED = 2
PROPOSED CANOPY TREES = 28
PROPOSED UNDERSTORY TREES = 51
CONTINUOUS ROW OF SHRUBS AS SHOWN

LAND USE BUFFER:

LENGTH = 690 L.F.
REQUIRED TREES = 21 CANOPY TREES & 35 UNDERSTORY TREES
PROPOSED CANOPY TREES = 21
PROPOSED UNDERSTORY TREES = 35
CONTINUOUS ROW OF SHRUBS AS SHOWN

PARKING LOT REQUIREMENTS:

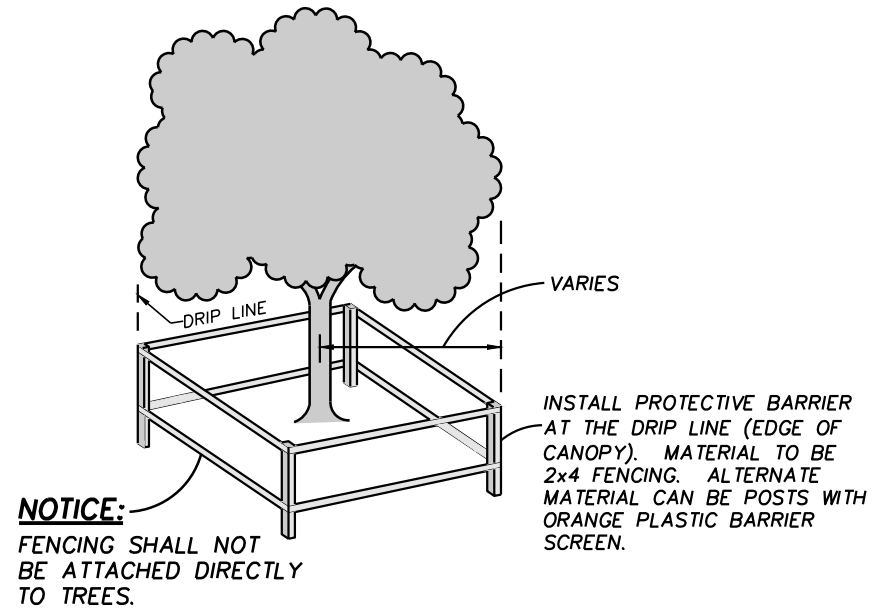
SPACES = 130
REQUIRED TREES = 5 CANOPY TREES & 15 SHRUBS
PROPOSED CANOPY TREES = 5 CANOPY TREES & 24 UNDERSTORY TREES
PROPOSED SHRUBS = 55
CONTINUOUS ROW OF SHRUBS AS SHOWN

*** PROPOSED PLANT LIST:**

QUANTITY	SYMBOL	COMMON NAME	BOTANICAL NAME	SIZE
570	◆◆◆◆	SWEET VIBURNUM (V)	VIBURNUM ODORATISSIMUM	3 GAL (18" MIN. HT.)
54	●	LIVE OAK (L)	QUERCUS VIRGINIANA	2-1/2" DBH
110	▲	LIGUSTRUM, TREE TYPE	LIGUSTRUM JAPONICUM	2-1/2" DBH (MIN.)
24	⊗	LITTLE GEM MAGNOLIA	MAGNOLIA GRANDIFLORA	2-1/2" DBH (MIN.)
490	✱	EMERALD GODDESS LIRIOPE	LIRIOPE MUSCARI	3 GAL STAGGERED AT 3' O.C.
450	▨	DWARF CONFEDERATE JASMINE	TRACHELOSPERMUM ASIATICUM	1 GAL (AT 3' SQUARES)
76	⊗	RED RUFFLE DWARF AZALEA	RHODODENDRON 'RED RUFFLES'	3 GAL STAGGERED AT 3' O.C.

LANDSCAPE NOTES:

- INSTALLATION PROFESSIONALS FOR LANDSCAPE & IRRIGATION SHALL MEET ALL REQUIREMENTS OF THE CITY OF WILDWOOD LAND DEVELOPMENT REGULATIONS.
- ALL PLANTS ARE TO BE NATIVE, AT FLORIDA #1 GRADE OR BETTER. THEY SHALL NOT BE FERTILIZED UPON PLANTING, BUT MUST BE INSTALLED USING A MINIMUM 1/3 PEAT WITH 2/3 NATIVE SOIL.
- A HEALTHY LIVING CONDITION FOR ALL LANDSCAPING SHALL BE MAINTAINED. ANY PLANTS THAT DIE OR ARE NOT HEALTHY AND DYING, SHALL BE REPLACED WITHIN THIRTY (30) DAYS TO COUNTY STANDARDS. CURRENT WATER RESTRICTIONS PER S.W.F.W.M.D. SHALL BE OBSERVED.
- THE HEDGE ALONG C.R. 105 SHALL BE A SINGLE ROW WITH PLANTS INSTALLED FROM 3-GALLON CONTAINERS AT 18-24 INCH PLANT HEIGHT, SPACED AT A MAXIMUM OF 54" ON CENTER. PLANTS ARE TO BE MATURE AT 60" TALL WITHIN 2 YEARS.
- SHADING INDICATES MULCH BEDS WITH GROUNDCOVER PLANTS (EMERALD GODDESS LIRIOPE OR DWARF CONFEDERATE JASMINE AS INDICATED). ALL LANDSCAPED AREAS, INCLUDING ORNAMENTAL TREES, ARE TO BE 100% IRRIGATED.
- LITTLE GEM MAGNOLIAS AND LIGUSTRUM TREES NOT SHOWN IN MULCH BEDS SHALL HAVE A MULCHED AREA AROUND THE BASE, BEING A 2' RADIUS. SOIL MOUNDING AROUND LIVE OAKS WILL BE AT 3" ABOVE FINISH GRADE.
- MULCHING WILL BE A MINIMUM OF 2"-THICK COURSE PINE BARK NUGGETS, AND SHALL BE APPLIED TO HEDGES AND ORNAMENTAL TREES SHOWN IN THE PLANT LIST.
- ISLANDS, UNPAVED AREAS, AND DISTURBED BUFFERS NOT MULCHED SHALL BE FINISHED WITH ARGENTINE BAHIA SOD DUE TO STORMWATER SHEETFLOW PATTERNS. SEE GENERAL NOTE 18.
- THE OWNER RESERVES THE OPTION TO INSTALL ALTERNATE CITY OF WILDWOOD APPROVED PLANTS WITH PRIOR ZONING APPROVAL.
- ALL LANDSCAPE MAINTENANCE SHALL BE IN ACCORDANCE WITH THE "FLORIDA FRIENDLY BEST MANAGEMENT PRACTICES FOR PROTECTION OF WATER RESOURCES BY THE GREEN INDUSTRIES" BOOKLET.



APPROPRIATE PROTECTIVE MEASURES SHALL BE TAKEN TO PREVENT THE DESTRUCTION OR DAMAGE OF ALL TREES TO BE RETAINED ON THE SITE. NO MATERIALS, MACHINERY, TEMPORARY SOIL DEPOSITS, ADDITIONAL FILL, OR ASPHALT PAVEMENT FOR VEHICULAR CIRCULATION SHALL BE PLACED ANY CLOSER TO ANY TREE THAN THE DRIP LINE. NO ATTACHMENTS OF WIRES, EXCEPTING PROTECTIVE GUIDE WIRES, SHALL BE ATTACHED TO ANY TREE. NO CHANGE OF GRADE MORE OR LESS THAN 6" INCHES MAY BE MADE WITHIN THE DRIP LINE OF A TREE UNLESS SHOWN ON THE APPROVED SITE DEVELOPMENT PLAN.

TREE REMOVAL WITHIN AREAS THAT REQUIRE PROTECTION MUST BE COMPLETED WITHOUT DAMAGING TREES BEING PRESERVED, COMPACTION OF SOILS ADJACENT TO TREES BEING PRESERVED, OR DISTURBING ROOTS OF TREES TO BE PRESERVED.

TREE PROTECTION DETAIL
INSTALL PRIOR TO CONSTRUCTION

EXISTING TREE NOTES:

- TREES TO BE SAVED SHALL BE PROTECTED. SEE DETAIL.
- REFER TO SURVEY FOR A DESCRIPTION OF EACH TREE.
- OFF-SITE TREES ARE NOT INCLUDED WITHIN THE EXISTING NATIVE TREE CALCULATIONS.

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CERTIFICATE OF AUTHORIZATION #5308
JOSEPH C. LONDON, P.E. #33594

3	ADD'L LANDSCAPING	J.A.F.	04-07-14
2	20' LANDSCAPE BUFFER	J.R.H.	03-31-14
1	PER CITY/COUNTY COMMENTS	J.A.F.	03-24-14
NO	REVISION	BY	DATE
DESIGN	J.C.L./J.A.F.	DATE	02-26-14
DRAW	J.A.F.	PROJECT	13037
CHECK	J.C.L.	FILE	SP313

