

# WILSONVILLE SMART OPERATIONS & FLEET FACILITY CITY OF WILSONVILLE

28879 BOBERG ROAD WILSONVILLE, OREGON 97070

## RECORD DRAWINGS - PHASE 2 - BUILDING AND SITE IMPROVEMENTS - 5/1/2013



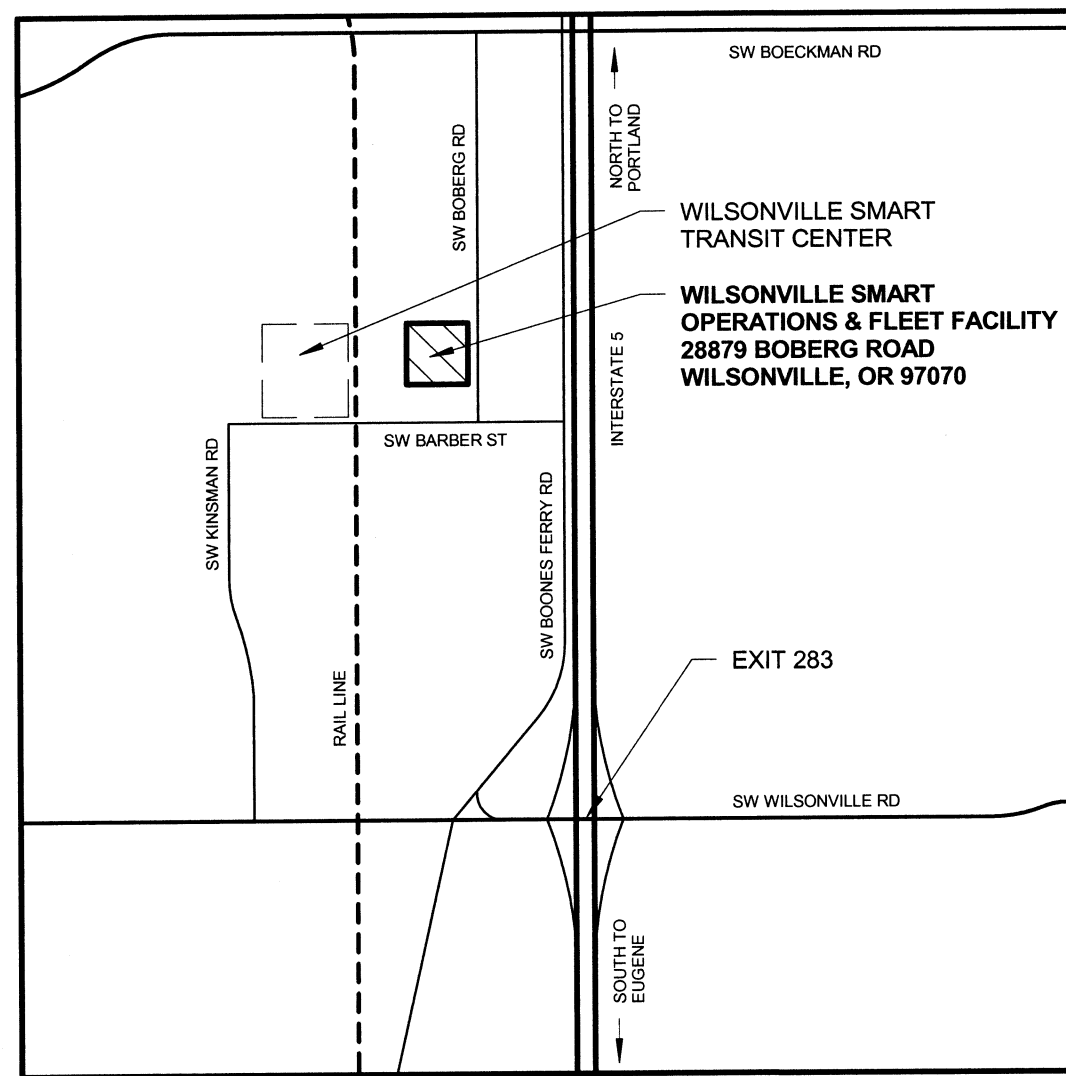
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### ARCHITECTURAL ABBREVIATIONS

@	ANCHOR BOLT
AB	ASPHALTIC CONCRETE
AC	ACOUSTIC
ACOUS	ACOUSTICAL TILE CEILING SYSTEM
ACT	ABOVE FINISH FLOOR
AFF	ALUMINUM
ALUM	BUILDING
BLDG	BOTTOM OF
BO	CATCH BASIN
CB	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED
CFCI	CONTROL JOINT
CJ	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CPT	CARPET
CR	CARD READER
DBL	DOUBLE
DEMDO	DEMOLITION/DEMOLISH
DF	DOUGLAS FIR, DRINKING FOUNTAIN
DIAG	DIAGONAL
DIA	DIAMETER
DISP	DISPENSER
DN	DOWN
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING
(E)	EXISTING
EACH	EACH
EJ	EXPANSION JOINT
EL, ELEV	ELEVATION
ELEC	ELECTRICAL
EQ	EQUAL
EQJ	EACH WAY
EXT	EXTERIOR
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FIN	FINISH/FINISHED
FLR	FLOOR
FO	FACE OF
FRP	FIBER REINFORCED PANEL
FTG	FOOTING
GA	GAUGE
GB	GRAB BAR
GLB	GLUE LAM BEAM
GYP BD	GYP SUM BOARD
HGT	HEIGHT
HORIZ	HORIZONTAL
HR	HANDRAIL
HM	HOLLOW METAL
INSUL	INSULATION
INT	INTERIOR
JT	JOINT
KD	KNOCK DOWN
LAV	LAVATORY
LOC	LOCATION
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIMENSION
OFI	OWNER FURNISHED CONTRACTOR INSTALLED
OFI	OWNER FURNISHED OWNER INSTALLED
OFS	OUTSIDE FACE OF STUD
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
P LAM	PLASTIC LAMINATE
PS	PAINT SYSTEM
PT	PRESSURE TREATED
PTD	PAINTED
PLY	PLYWOOD
R	RADIUS
RB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
ROOM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RUB	RUBBER
SD	STORM DRAIN
SDO	SECTIONAL DOOR OPERATOR
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SPECS	SPECIFICATIONS
SQFT, SF	SQUARE FOOT
S STL	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STRUC	STRUCTURAL
T&B	TOP & BOTTOM
T&G	TONGUE AND GROOVE
TEMP	TEMPERED, TEMPORARY
TO	TOP OF
TOC	TOP OF CONCRETE
TOW	TOP OF WALL
TOS	TOP OF STRUCTURE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VFY	VERIFY
WA	WALL ASSEMBLY
WTH	WOOD
WD	WOOD
WP	WATER PROOF

### VICINITY MAP - WILSONVILLE, OR



### PROJECT TEAM

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CITY OF WILSONVILLE  
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WILSONVILLE, OR 97070  
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CONTACT: ERIC GUNDERSON, JOHN STAPLETON

**STRUCTURAL ENGINEER**  
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EUGENE, OR 97401  
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CONTACT: VIKKI BOURCIER

**CIVIL ENGINEER**  
PARSONS BRINCKERHOFF  
400 SOUTHWEST 6TH AVENUE, SUITE 802  
PORTLAND, OR 97204  
PHONE: (503) 417-9353  
CONTACT: CHRISTOPHER HEMMER

**MECHANICAL/PLUMBING ENGINEER**  
BALZHISER & HUBBARD ENGINEERS  
100 WEST 13TH AVENUE  
EUGENE, OR 97401  
PHONE: (541) 686-8478 FAX: (541) 345-5303  
CONTACT: STEPHEN SMITH

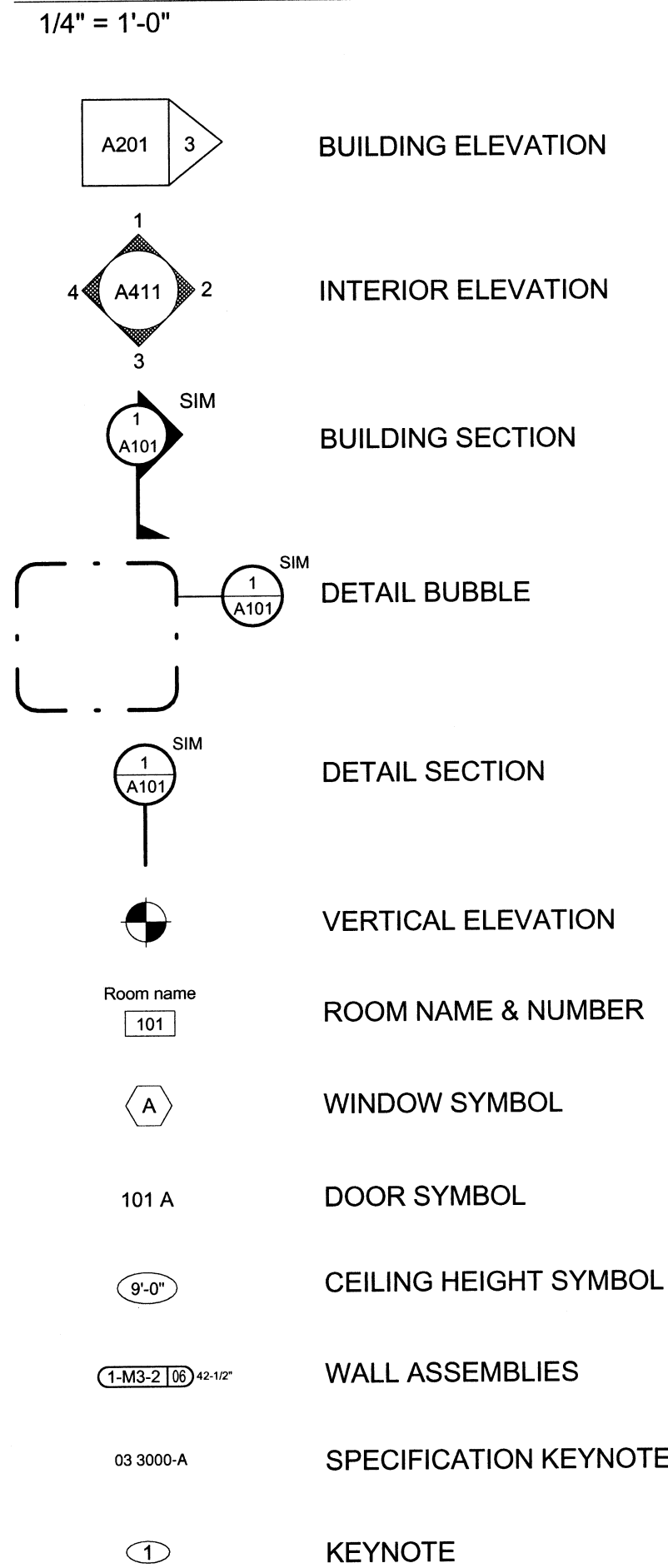
**ELECTRICAL ENGINEER**  
REYES ENGINEERING  
10555 SOUTHEAST 82ND AVENUE, SUITE 203  
HAPPY VALLEY, OR 97086  
PHONE: (503) 771-1986  
CONTACT: FLAVIANO REYES

**LANDSCAPE ARCHITECT**  
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24 NORTHWEST SECOND AVENUE, SUITE 100  
PORTLAND, OR 97209  
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CONTACT: RON TENDICK

**EQUIPMENT CONSULTANT**  
PARSONS BRINCKERHOFF  
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HOUSTON, TX 77084  
PHONE: (281) 558-7273 FAX: (281) 558-7282  
CONTACT: JEWELS CARTER

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ASH CREEK ASSOCIATES, INC.  
3015 SW FIRST AVENUE  
PORTLAND, OR 97201  
PHONE: (503) 924-4704  
CONTACT: STUART ALBRIGHT

### ARCHITECTURAL SYMBOLS



### SHEET INDEX - PHASE 2 - BUILDING & SITE IMPROVEMENTS

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#### ELECTRICAL

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E503	FIRE ALARM ONE LINE DIAGRAM	E703	ELECTRICAL DETAILS
E504	ELECTRICAL DETAILS	E704	ELECTRICAL DETAILS
E505	ELECTRICAL DETAILS		

#### EQUIPMENT

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Q101	EQUIPMENT PLAN
Q102	EQUIPMENT DETAILS

RECORD DRAWINGS - PHASE 2 - BUILDING AND SITE IMPROVEMENTS  
CITY OF WILSONVILLE  
WILSONVILLE SMART OPERATIONS & FLEET FACILITY

TITLE SHEET

PROJECT NO:	1046	REVISIONS:	
DATE:	5/1/2013	DRAWN:	AD
		CHECKED:	EG

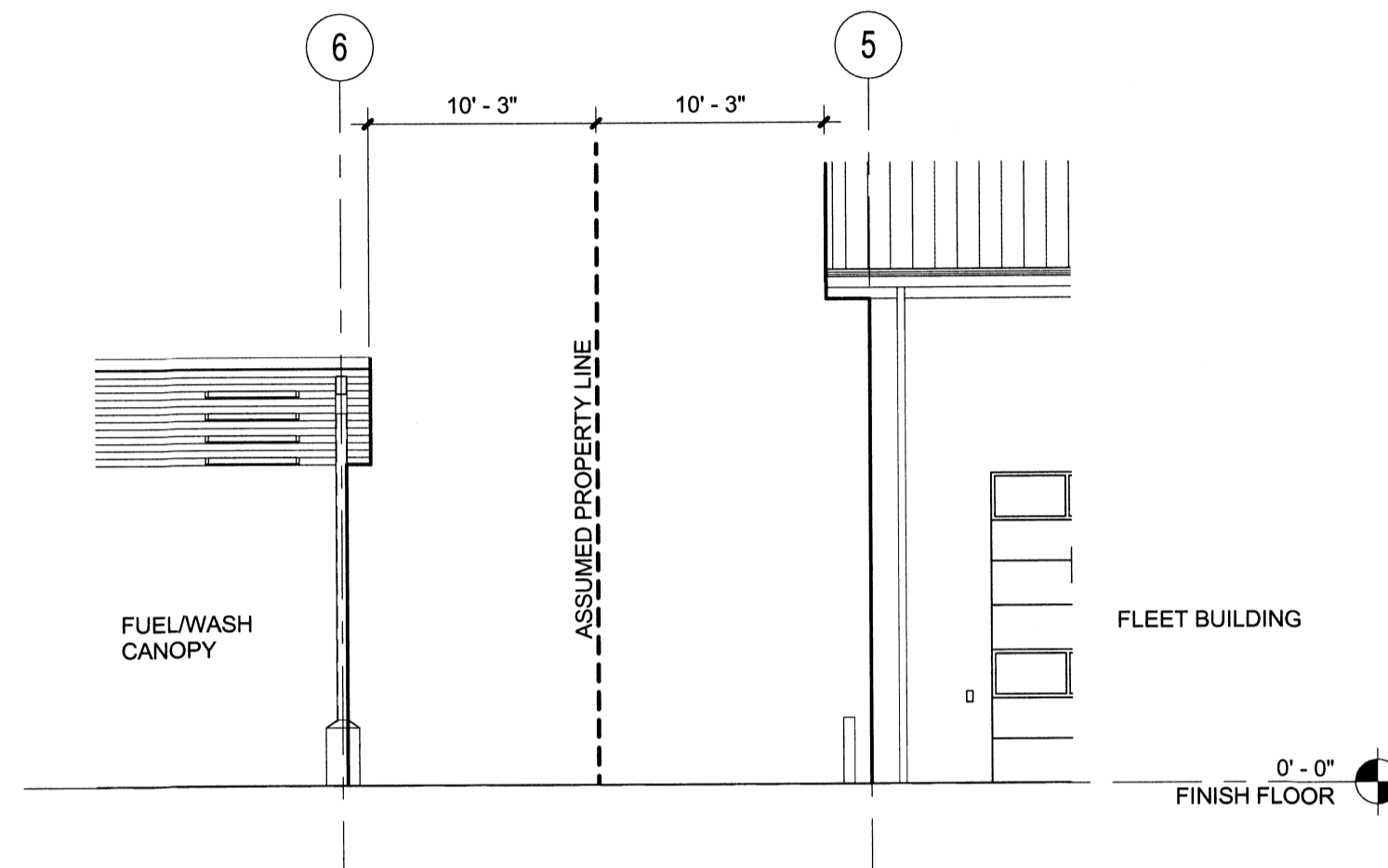
TTL

PRINTED ON: 6/13/2013 10:09:34 AM FROM FILE: C:\Pivot\_Architecture\Revit\_2013\WOPFF Fleet Building Central\_adavidson.rvt

Record Drawings, Maps, and Plans Not Guaranteed  
Record drawings, maps and plans are provided to the City of Wilsonville upon completion of development of the project. The City does not warrant the accuracy of measurements, elevations, locations or other information on such maps and plans. All information should be independently verified by a registered engineer, surveyor, planner, or other appropriate means prior to conducting any improvement or development.

### PLUMBING FIXTURE COUNT

B OCCUPANCY			
SPACE	AREA / 200	REQUIRED MALE/FEMALE	PROVIDED MALE/FEMALE
OFFICES AND CONFERENCE	4,643 sf / 200 = 24	2 / 2	2 / 2
S-1 OCCUPANCY			
SPACE	AREA / 5000	REQUIRED MALE/FEMALE	PROVIDED UNISEX
FLEET MAINT. BAYS	7,515 sf / 5000 = 2	1 / 1	1 / 1



**1 BUILDING SEPARATION DIAGRAM**  
1/8" = 1'-0"

### REFERENCED CODES & STANDARDS

- 2010 OREGON STRUCTURAL SPECIALTY CODE (OSSC), BASED ON THE 2006 INTERNATIONAL BUILDING CODE (IBC)
- 2010 OREGON MECHANICAL SPECIALTY CODE (OMSC), BASED ON THE 2006 INTERNATIONAL MECHANICAL CODE
- 2010 OREGON PLUMBING SPECIALTY CODE (OPSC), BASED ON THE 2006 UNIFORM PLUMBING CODE
- 2010 ELECTRICAL CODE, BASED ON THE 2008 NFPA 70-NEC
- 2010 OREGON FIRE CODE, BASED ON THE INTERNATIONAL FIRE CODE WITH OREGON AMENDMENTS (IFC)
- WILSONVILLE DEVELOPMENT CODE, CURRENT VERSION
- SEE SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL REFERENCED CODES AND STANDARDS NOT LISTED HERE

### CODE OFFICIAL INFORMATION

**ZONE:**  
PDI - PLANNED DEVELOPMENT INDUSTRIAL  
SROZ - SIGNIFICANT RESOURCE OVERLAY ZONE

**ADDRESS:**  
28879 SW BOBERG ROAD  
WILSONVILLE, OREGON 97070

**MAP AND TAX LOT:**  
TAX LOT 1600, SECTION 14, T3S-R1W, CLACKAMAS COUNTY

**SEISMIC DESIGN:**  
SEE SHEET S001

**FLEET BUILDING**

**AUTOMATIC FIRE SPRINKLER SYSTEM:**  
YES. TO BE PROVIDED PER SECTION 903.1

**OCCUPANCY:**  
B - BUSINESS GROUP - OFFICE  
S-1 MODERATE HAZARD STORAGE GROUP  
PER 508.3.2 - BUILDING IS A NON-SEPARATED MIXED-OCCUPANCY BUILDING COMPLYING WITH S-1 RESTRICTIONS FOR ALLOWABLE HEIGHT AND AREA.

**CONSTRUCTION TYPE AND ALLOWABLE AREA:**  
TYPE V-B  
ALLOWABLE FLOOR AREA: BASED ON ASSUMPTION THAT ENTIRE BUILDING IS **S-1**

PER SECTION 503.1  
S-1 At = 9,000 sf If = 70% Is = 200% Aa = 33,300 SF PER FLOOR  
PER 508.3.2 - BUILDING IS A NON-SEPARATED MIXED-OCCUPANCY BUILDING COMPLYING WITH S-1 RESTRICTIONS FOR ALLOWABLE HEIGHT AND AREA.  
Aa (ALLOWABLE AREA WITH INCREASE) = 33,300 SF PER FLOOR  
PROPOSED FLOOR AREA: 12,158 SF ON (1) FLOOR

**FIRE EXTINGUISHERS:**  
MOUNTING HEIGHT - 54" TO TOP OF CABINET  
48" TO TOP OF EXTINGUISHERS, IF NOT IN CABINET.

**TYPES - ADMIN OFFICES - LIGHT HAZARD**  
FLEET BAYS - ORDINARY HAZARD  
KITCHEN - K CLASS

**LOCATIONS - SEE G001 AND FLOOR PLANS FOR LOCATIONS OF FIRE EXTINGUISHERS.**  
PORTABLE FIRE EXTINGUISHERS TO BE LOCATED WITH MAXIMUM TRAVEL DISTANCE OF 75' PER INTERNATIONAL FIRE CODE SECTION 906.

**FUEL WASH/TRASH BUILDING**

**AUTOMATIC FIRE SPRINKLER SYSTEM:**  
NO

**OCCUPANCY:**  
M - MERCANTILE GROUP

**CONSTRUCTION TYPE AND ALLOWABLE AREA:**  
TYPE V-B  
ALLOWABLE FLOOR AREA:  
PER TABLE 503  
TABULAR ALLOWED AREA IS 9,000 SF  
PROPOSED FLOOR AREA IS 2,060 SF

**DEFERRED SUBMITTALS:**  
1. FIRE ALARM SYSTEM  
2. FIRE SPRINKLERS  
3. SUSPENDED CEILING  
4. SEISMIC ANCHORAGE OF MECHANICAL AND ELECTRICAL EQUIPMENT

### PARKING SUMMARY

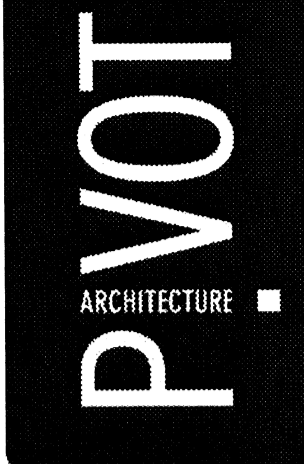
**PROPOSED VEHICLE PARKING:**

STANDARD SPACES:	33
COMPACT SPACES:	0
ADA SPACES:	2
<b>TOTAL SPACES:</b>	<b>35</b>

**BIKE PARKING:**

PER SECTION 4.155(02) GENERAL PROVISIONS:  
(2) SPACES MINIMUM FOR OFFICE USES  
(2) SPACES MINIMUM FOR REPAIR SHOPS  
(4) TOTAL SPACES

**PROPOSED BIKE PARKING:**  
(6) SPACES



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RECORD DRAWINGS - PHASE 2 - BUILDING AND SITE IMPROVEMENTS  
CITY OF WILSONVILLE  
WILSONVILLE SMART OPERATIONS & FLEET FACILITY

#### CODE INFORMATION

PROJECT NO.	1046	REVISIONS:
DATE:	5/1/2013	
DRAWN:	JS	EG
CHECKED:		

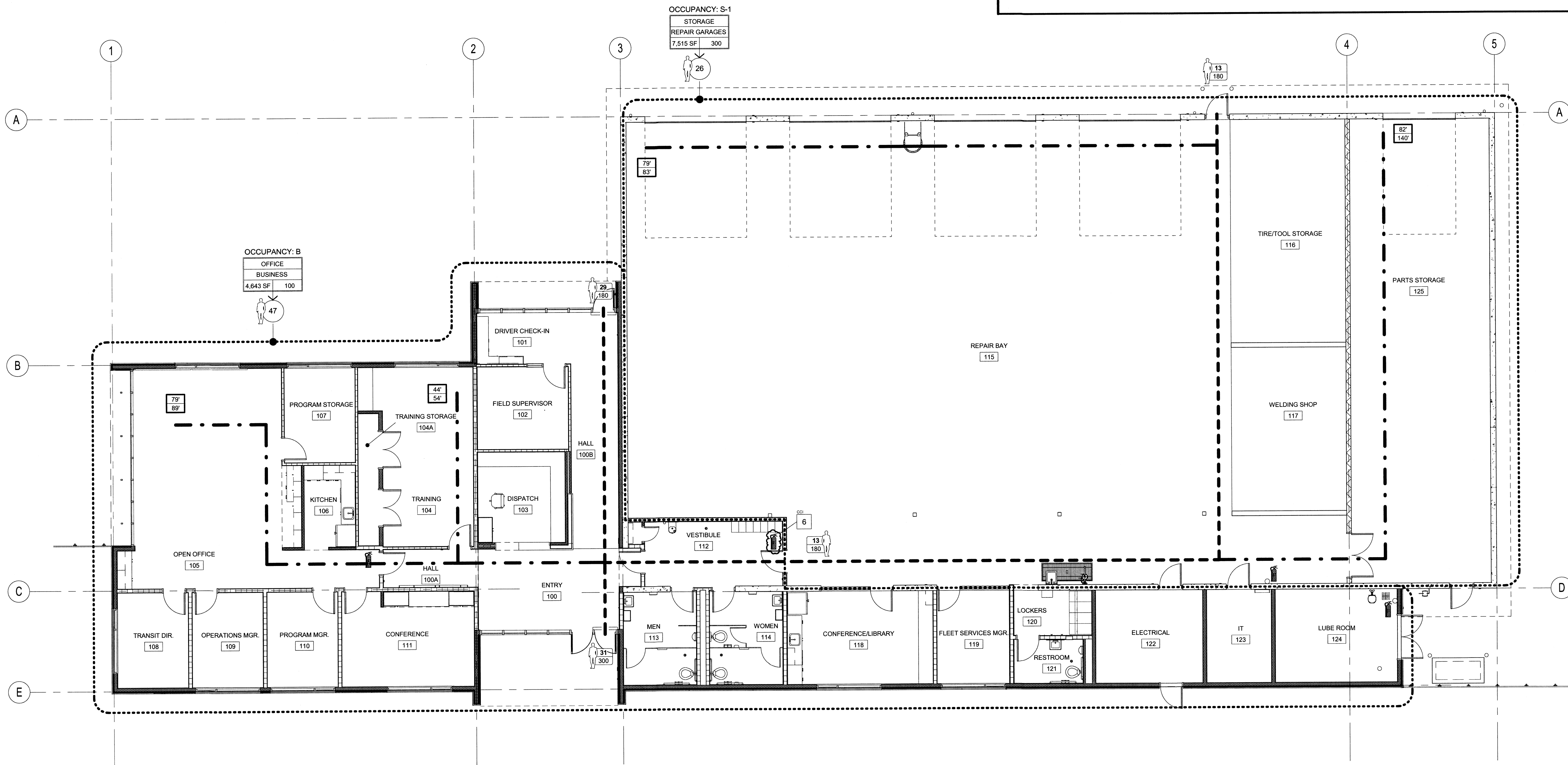
G001

CODE ANALYSIS LEGEND (REFER TO ELECTRICAL DRAWINGS FOR EXIT SIGN LOCATIONS AND EGRESS LIGHTING)

<b>OCCUPANCY LOAD ICON</b>			
<p>OCCUPANCY: S-1</p> <p>STORAGE WAREHOUSE 620 SF 500</p> <p>2</p>	<p>OCCUPANCY TYPE</p> <p>OCCUPANCY NAME</p> <p>BUILDING USE</p> <p>OCCUPANT LOAD FACTOR</p> <p>GROSS FLOOR AREA</p> <p>OCCUPANT LOAD PERMITTED</p>	<p>---</p>	<p>COMMON PATH OF EGRESS (1014.3): THE DISTANCE TO POINT WHERE TWO EXIT PATHS ARE AVAILABLE S = 100' (SPRINKLERED BLDG)</p>
<b>EXIT OCCUPANCY ICON</b>			
<p>120 180</p>	<p>NUMBER OF OCCUPANTS USING EXIT</p> <p>MAXIMUM NUMBER OF OCCUPANTS ALLOWED PER TABLE 1005.1: CLEAR DOOR WIDTH x 5 (10.2 PER OCCUPANT) FOR SPRINKLERED BUILDINGS (36" X 5=180)</p>	<p>---</p>	<p>TWO EXIT OPTIONS ARE AVAILABLE ALONG THIS PATH</p>
<b>TRAVEL DISTANCE ICON</b>			
<p>75' 280'</p>	<p>COMMON PATH OF EGRESS (1014.3): THE DISTANCE TO POINT WHERE TWO EXIT PATHS ARE AVAILABLE S = 100' (SPRINKLERED BLDG)</p> <p>MAXIMUM TRAVEL DISTANCE (1016.1): DISTANCE TO NEAREST EXTERIOR EGRESS DOOR S = 300' (SPRINKLERED BLDG) OR EXIT ENCLOSURE</p>	<p>---</p>	<p>OCCUPANCY/INCIDENTAL BOUNDRIES</p>
		<p>⬇</p>	<p>FIRE EXTINGUISHER</p>
		<p>⬅</p>	<p>EXIT FROM OCCUPIED AREAS</p> <p>MAXIMUM TRAVEL DISTANCE (1016.1): DISTANCE TO NEAREST EXTERIOR EGRESS DOOR S = 300' (SPRINKLERED BLDG) OR EXIT ENCLOSURE</p>



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CITY OF WILSONVILLE  
WILSONVILLE SMART OPERATIONS & FLEET FACILITY

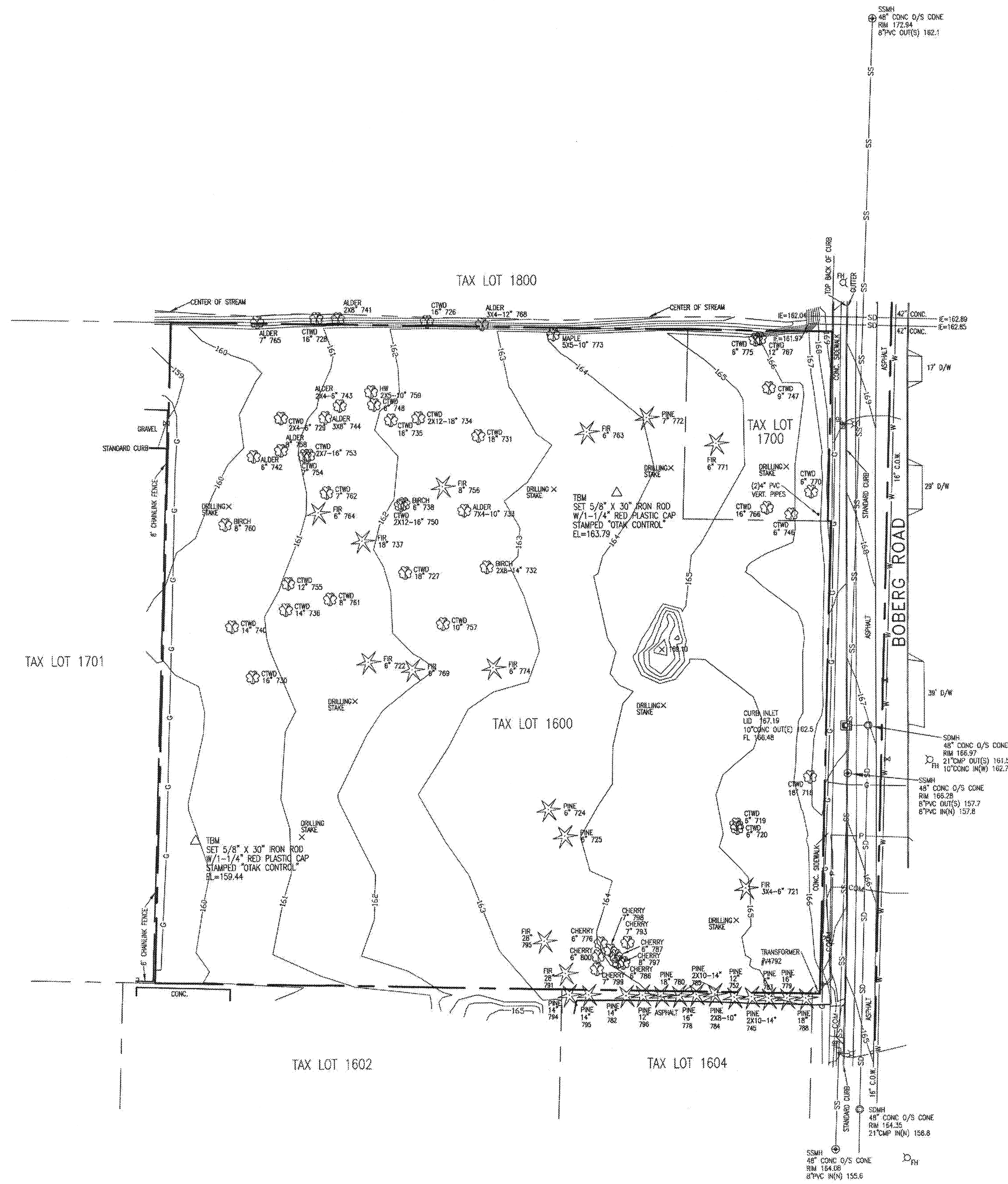
EGRESS PLAN

PROJECT NO.	DATE	REVISIONS
1046	5/1/2013	AD
		EG

G002

**1 EGRESS PLAN**  
1/8" = 1'-0"





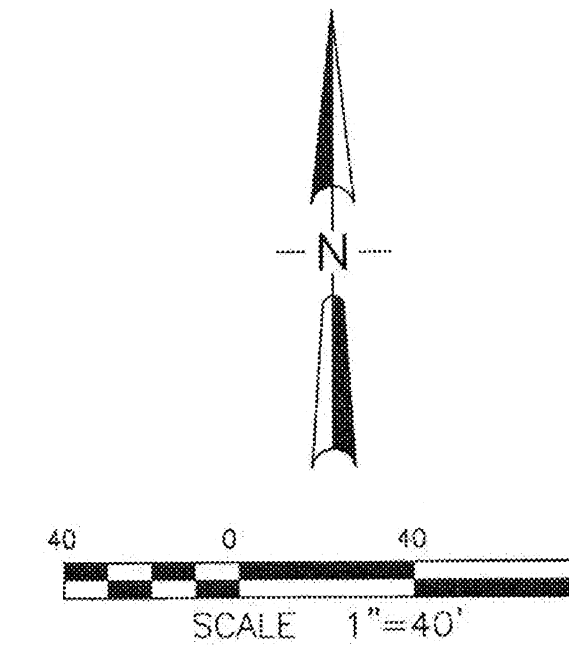
WILSONVILLE - BOBERG ROAD  
EXISTING CONDITIONS BASE MAP  
(NOV. 2010)

BASIS OF COORDINATES:  
COORDINATES ARE NAD83(CORS96) OREGON STATE PLANE-NORTH ZONE  
BASED ON REAL TIME KINEMATIC GPS OBSERVATIONS MADE FROM ORGN  
STATION "WOODBURN" (RTCM0005). UNITS ARE IN INTERNATIONAL FEET.

BASIS OF ELEVATIONS:  
ELEVATIONS ARE NAVD88 BASED ON THE PUBLISHED ELLIPSOIDAL HEIGHTS  
OF ORGN STATION "WOODBURN" (RTCM0005). ORTHOMETRIC HEIGHTS WERE  
CALCULATED USING "GEOID09". UNITS ARE IN INTERNATIONAL FEET.

STATION "WOODBURN" (RTCM0005)  
LATITUDE: 45°10'15.09494"N  
LONGITUDE: 122°52'12.13303"W  
ELLIPSOIDAL HEIGHT: 40.201 METERS

NOTE:  
PROPERTY LINE DATA FROM SURVEY NUMBER 2007-307,  
CLACKAMAS COUNTY SURVEY RECORDS



**SYMBOL LEGEND**

- SANITARY MANHOLE
- STORM MANHOLE
- STORM CURB INLET
- FIRE HYDRANT
- WATER VALVE
- LIGHT POLE
- ELECTRIC JUNCTION BOX
- COMM. RISER
- DECIDUOUS TREE
- EVERGREEN TREE
- CTWD DENOTES COTTONWOOD
- FIR DENOTES 28" FIR WITH 28' 1" DIAMETER ALUMINUM TAG NUMBERED "795"

MDR	11/23/10
Calculated MDR	Date 11/23/10
Drawn JAC	Date 11/24/10
Checked	Date

REVISIONS	
2-9-11 MDR	
ADDED DRIVEWAYS	
AND FIRE HYDRANTS	

REGISTERED  
PROFESSIONAL  
LAND SURVEYOR  
**John A. Carlson**  
OREGON  
JULY 15, 1983  
JOHN A. CARLSON  
2044  
RENEWAL: 12-31-11

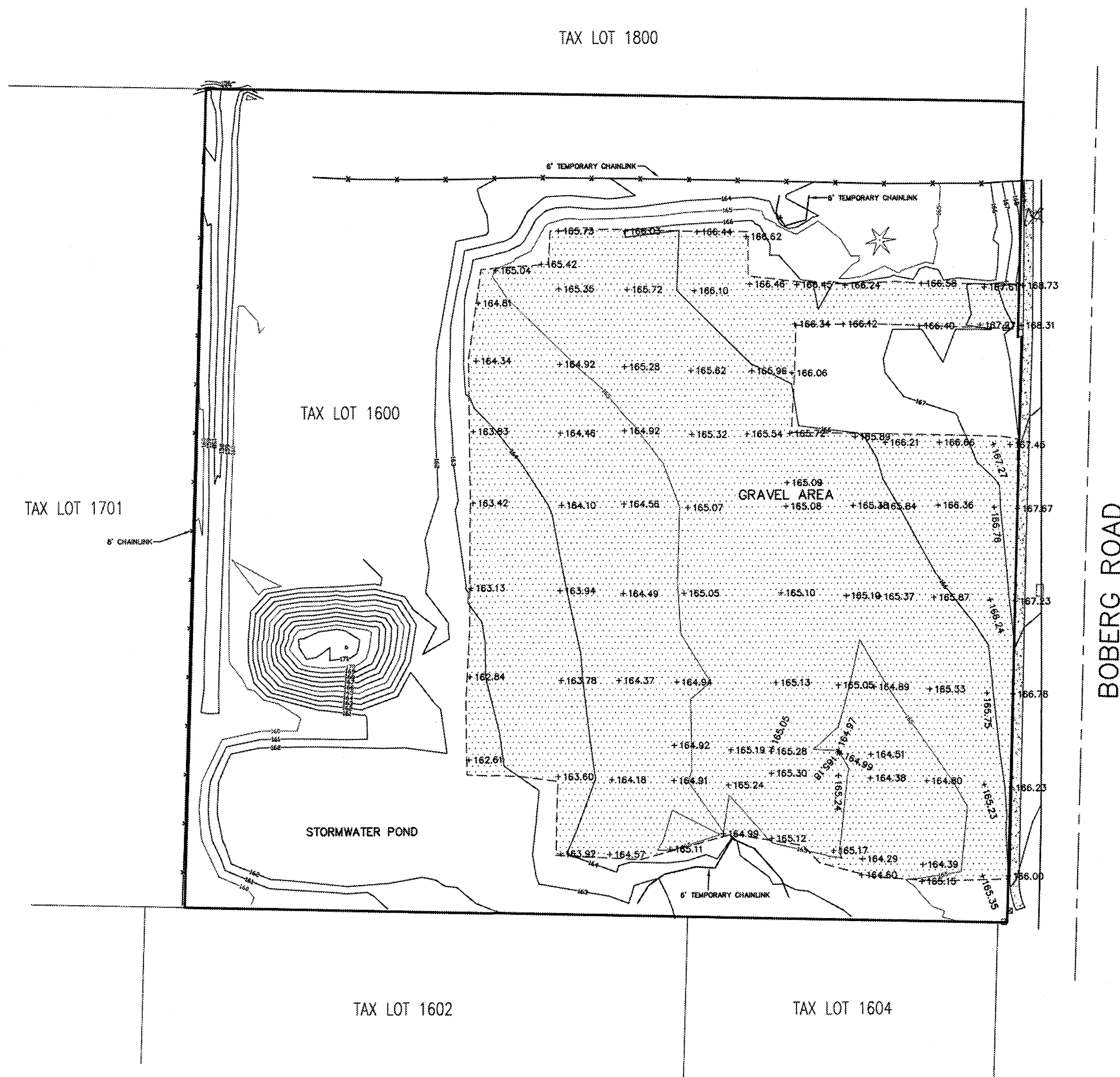
**TOPOGRAPHIC SURVEY OF TAX LOT  
1600 & 1700, MAP 3S-1W-14A  
CLACKAMAS COUNTY, OREGON**

FOR: CITY OF WILSONVILLE

**otak** surveyors  
engineers  
planners  
17355 S.W. BOONES FERRY ROAD  
LAKE OSWEGO, OREGON 97035  
(503)855-3519 FAX (503)855-5385

1 OF 1  
Sheet No.

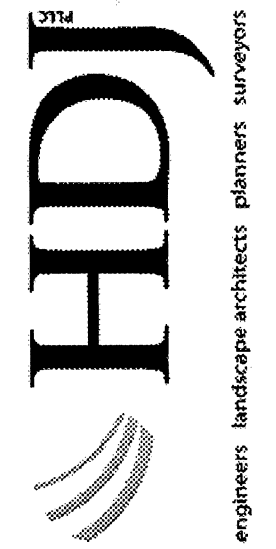
16024  
Project No.



**LEGEND:**

- DENOTES CURB INLET
- ☒ DENOTES TELEPHONE RISER
- ☒ DENOTES POWER RISER
- ☼ DENOTES LIGHT POLE
- ☼ DENOTES CONIFEROUS TREE
- ▨ DENOTES GRAVEL SURFACE
- ▩ DENOTES CONCRETE SURFACE

500 W. 16th Street  
 Wilsonville, OR 97150  
 503/695-5448  
 503/694-4005  
 503/695-8767 fax

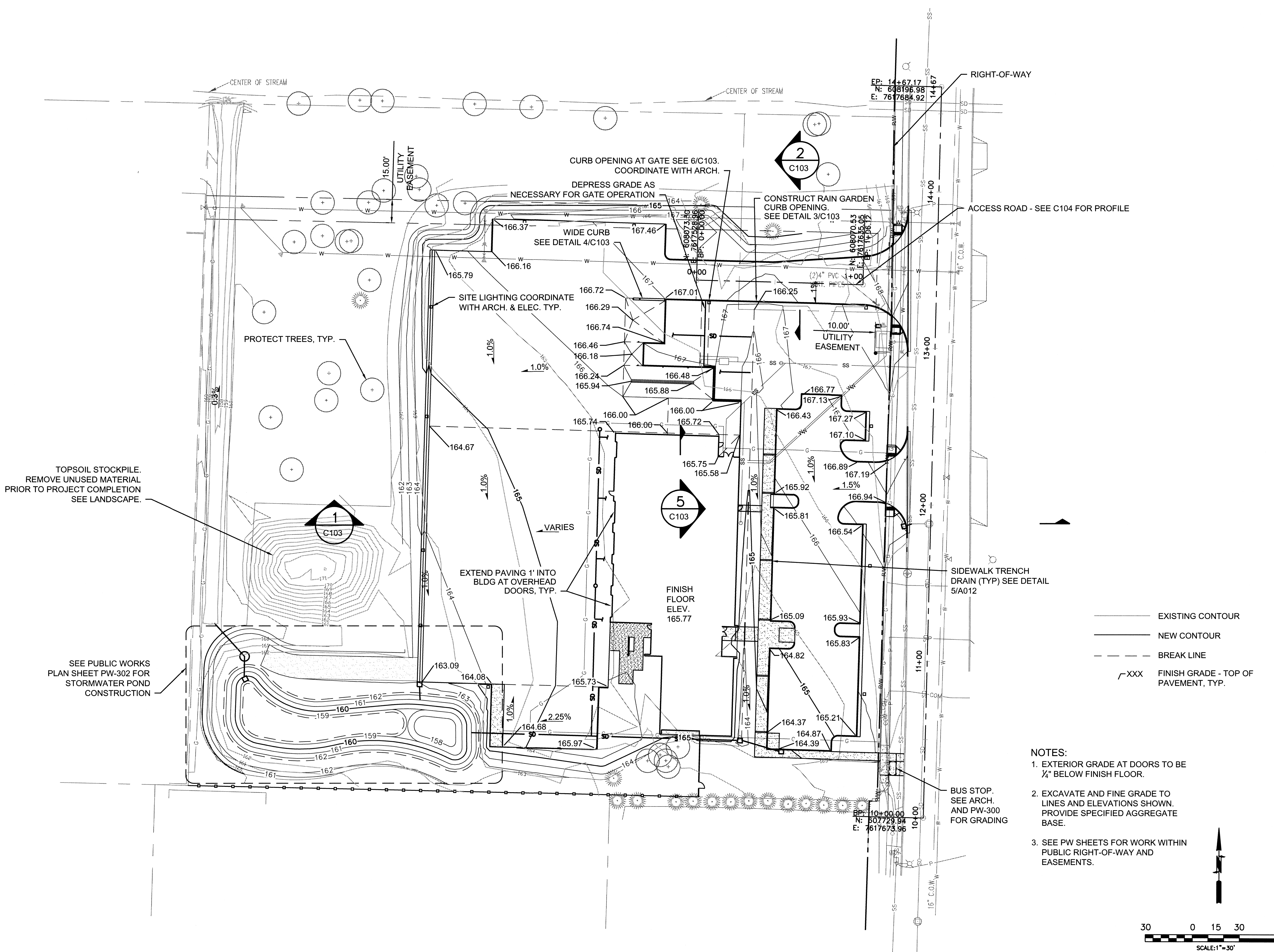


REGISTERED  
 PROFESSIONAL  
 LAND SURVEYOR

OREGON  
 JULY 16, 1982  
 TERRY GOODMAN  
 1989  
 RENEWAL DATE: 7-01-13

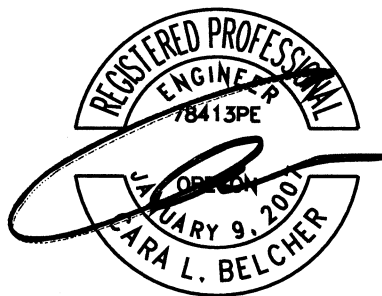
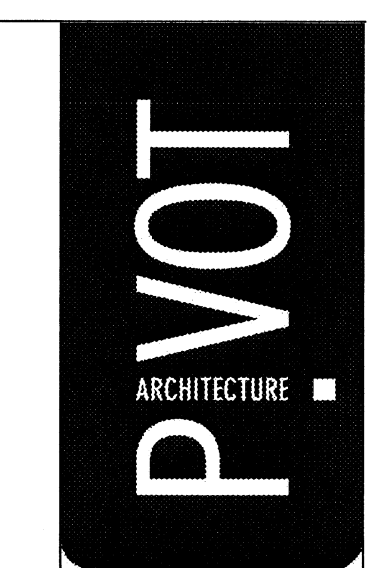
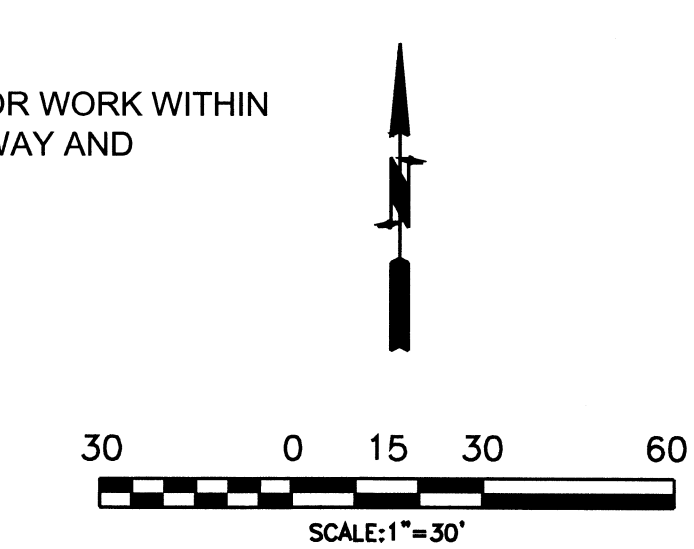
ASBUILT SURVEY  
 WILSONVILLE SMART OPERATIONS & FLEET FACILITY  
 TAX LOT 1600, MAP NO. 3S-1W-14A  
 CITY OF WILSONVILLE, CLACKAMAS COUNTY, OREGON  
 FOR: K & E EXCAVATING

DATE	11/09/11
DRAWN	TLG
SURVEYED	SCD
CHECKED	TLG
JOB NO.:	3252
DRAWING NAME:	3252-ASBUILT
SHEET NO.	1/1



— EXISTING CONTOUR  
 — NEW CONTOUR  
 - - - BREAK LINE  
 /XXX FINISH GRADE - TOP OF PAVEMENT, TYP.

- NOTES:
- EXTERIOR GRADE AT DOORS TO BE 1/4" BELOW FINISH FLOOR.
  - EXCAVATE AND FINE GRADE TO LINES AND ELEVATIONS SHOWN. PROVIDE SPECIFIED AGGREGATE BASE.
  - SEE PW SHEETS FOR WORK WITHIN PUBLIC RIGHT-OF-WAY AND EASEMENTS.



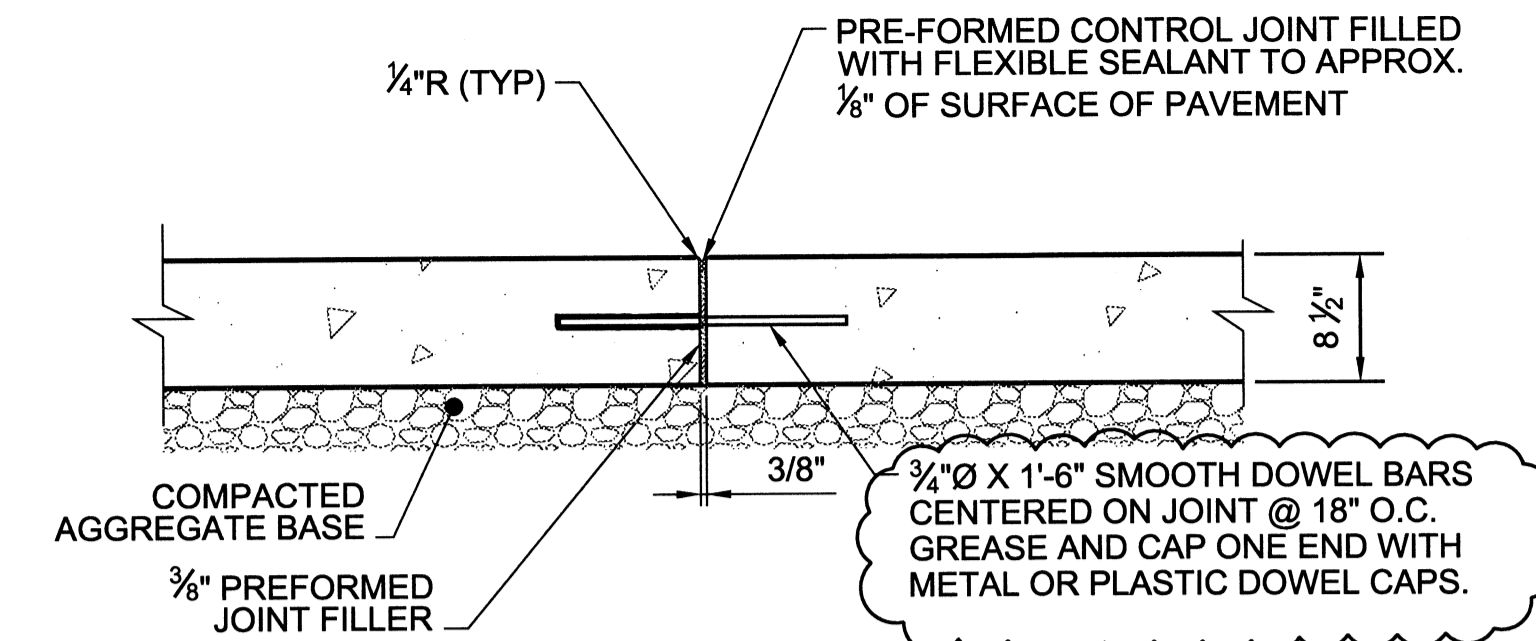
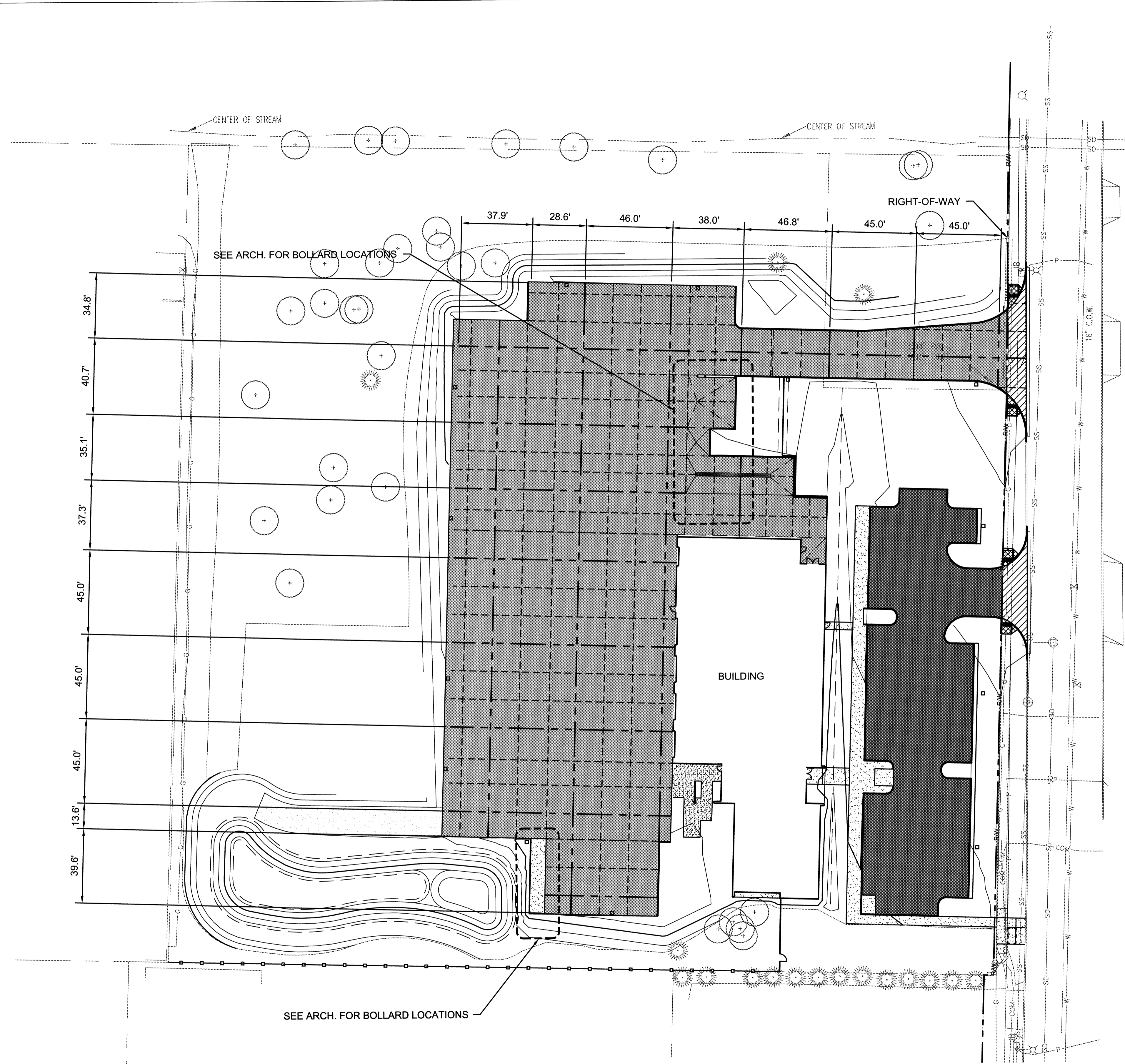
**PARSONS BRINCKERHOFF**

RECORD DRAWINGS - PHASE 2 -  
 BUILDING AND SITE IMPROVEMENTS  
 CITY OF WILSONVILLE  
 WILSONVILLE SMART OPERATIONS  
 & FLEET FACILITY

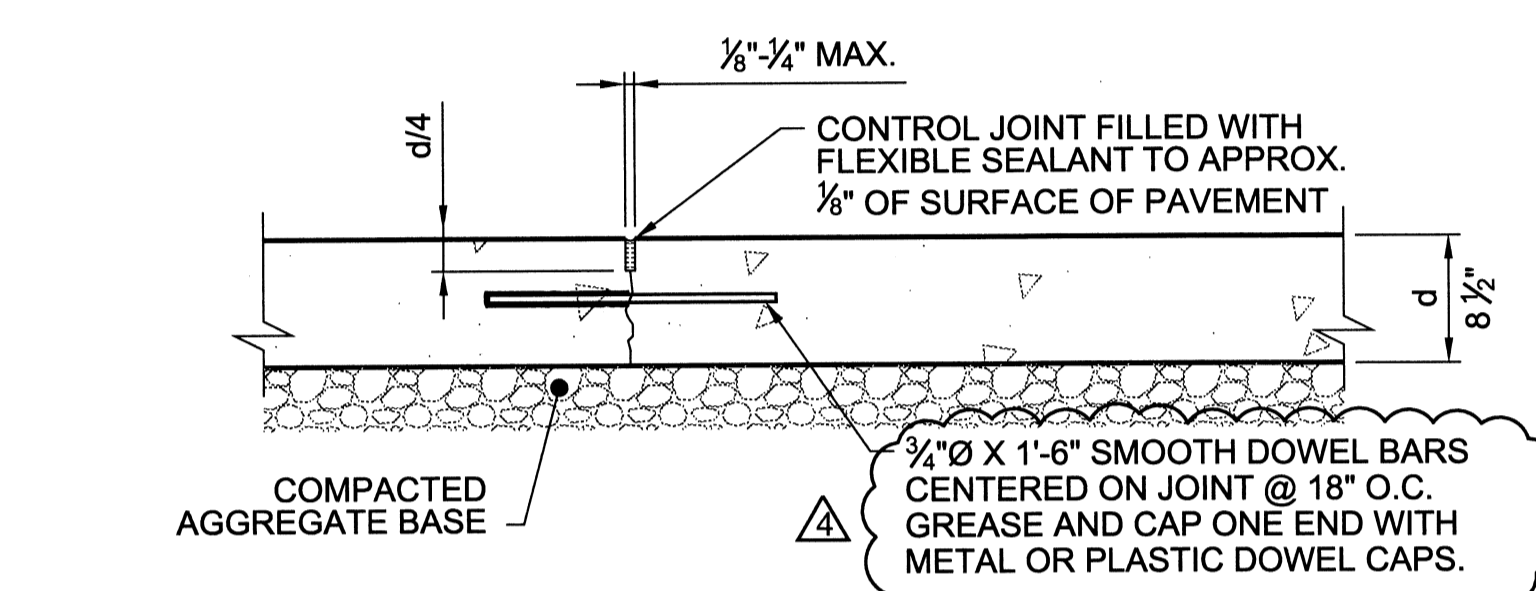
CIVIL SITE  
 GRADING PLAN

PROJECT NO.	DATE	REVISIONS	CLB	CJH
1046	05/01/2013			

C100



**A EXPANSION JOINT (EJ) DOWELLED**

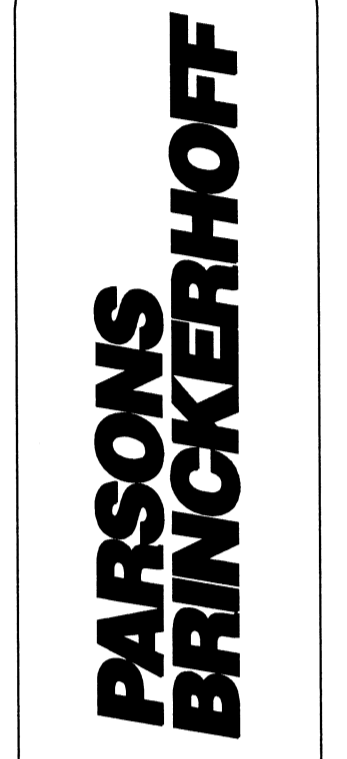
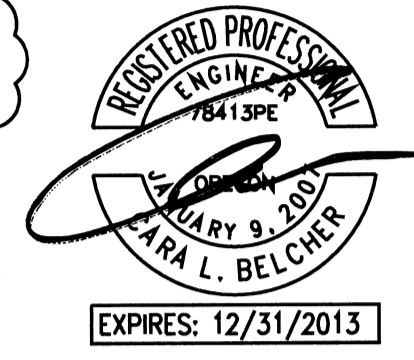
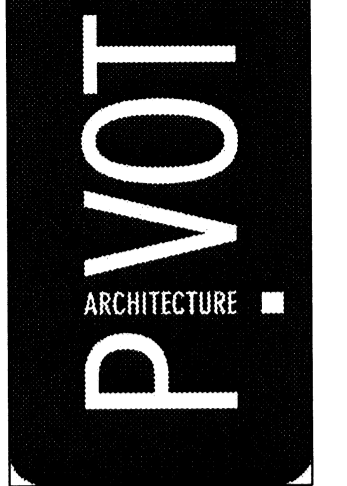
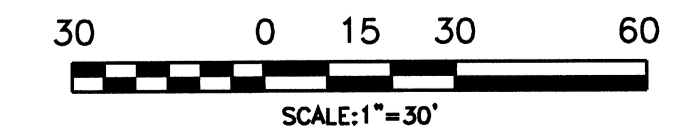


**B CONTRACTION JOINT (CJ) DOWELLED**

NOTE: SPACING OF CONTRACTION JOINTS AS INDICATED ON JOINTING PLAN

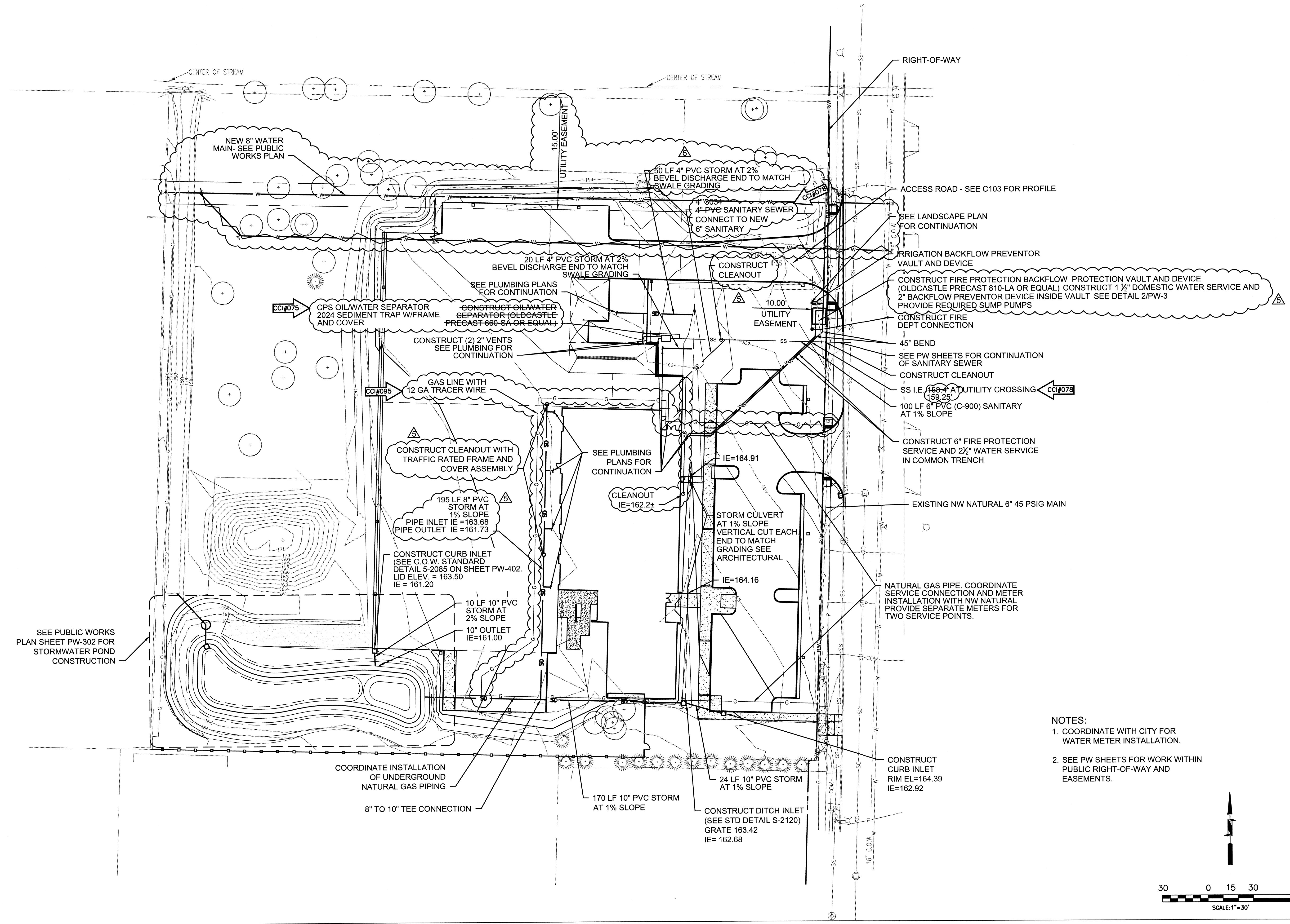
- EXPANSION JOINT SEE DETAIL A
- - - CONTRACTION JOINT SEE DETAIL B
- - - BREAK LINE
- [Pattern] SITE CONCRETE SEE A002
- [Pattern] DOWELLED PCC
- [Pattern] HMAC
- [Pattern] COMMERCIAL DRIVEWAY SEE PW-300
- [Pattern] ADA RAMPS SEE PW-300

NOTES:  
SEE SITE GRADING SECTION  
DETAIL 1/C103 FOR MORE  
INFORMATION.

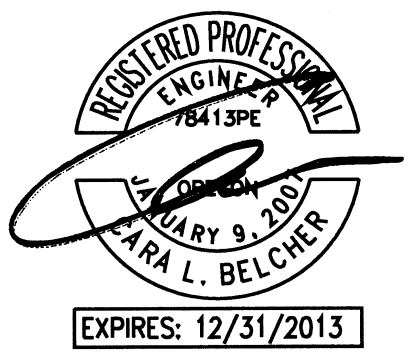
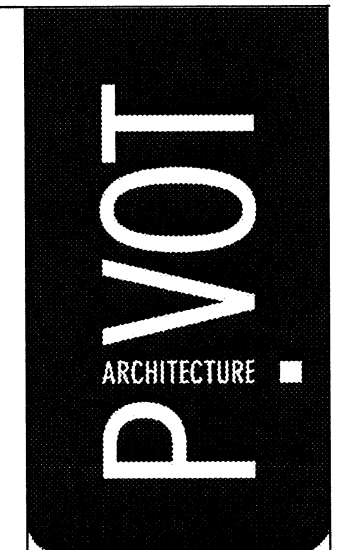
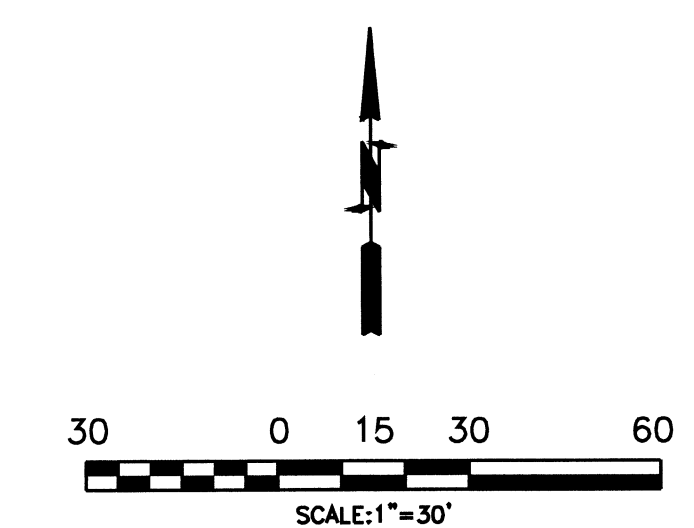


RECORD DRAWINGS - PHASE 2 -  
BUILDING AND SITE IMPROVEMENTS  
CITY OF WILSONVILLE  
WILSONVILLE SMART OPERATIONS  
& FLEET FACILITY

PROJECT NO.	1046	REVISIONS	
DATE:	06/01/2013	ADDENDUM #3 01-10-12	
DRAWN:	CLB	CJ1#2	
CHECKED:	CJH		
CIVIL SITE MATERIALS AND JOINTING PLAN			
<b>C101</b>			



- NOTES:**
1. COORDINATE WITH CITY FOR WATER METER INSTALLATION.
  2. SEE PW SHEETS FOR WORK WITHIN PUBLIC RIGHT-OF-WAY AND EASEMENTS.



**PARSONS BRINCKERHOFF**

RECORD DRAWINGS - PHASE 2 - BUILDING AND SITE IMPROVEMENTS  
CITY OF WILSONVILLE  
WILSONVILLE SMART OPERATIONS & FLEET FACILITY

CIVIL SITE  
UTILITY PLAN

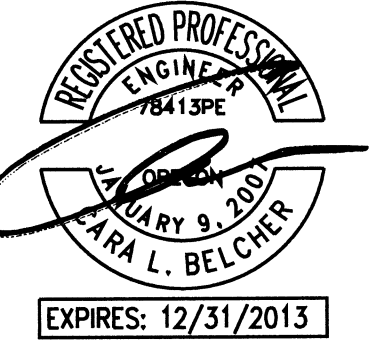
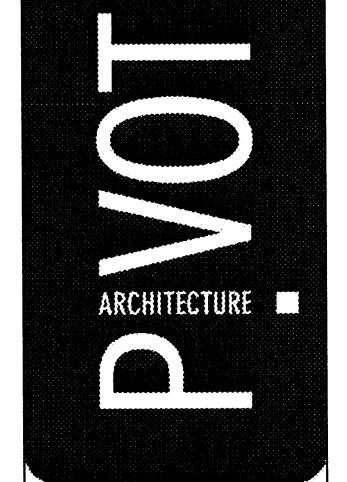
PROJECT NO:	1046	REVISIONS:	
DATE:	09/01/2013	CCI#1	
DRAWN:	CLB	C/JH	
CHECKED:			

C102



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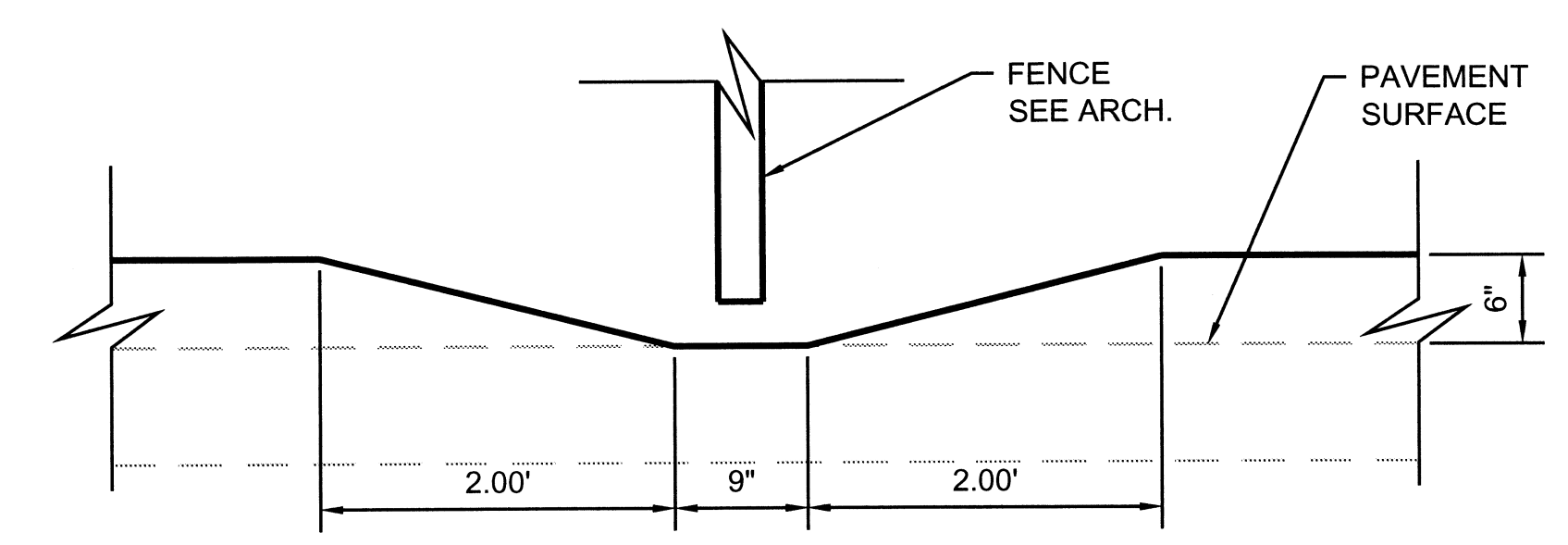
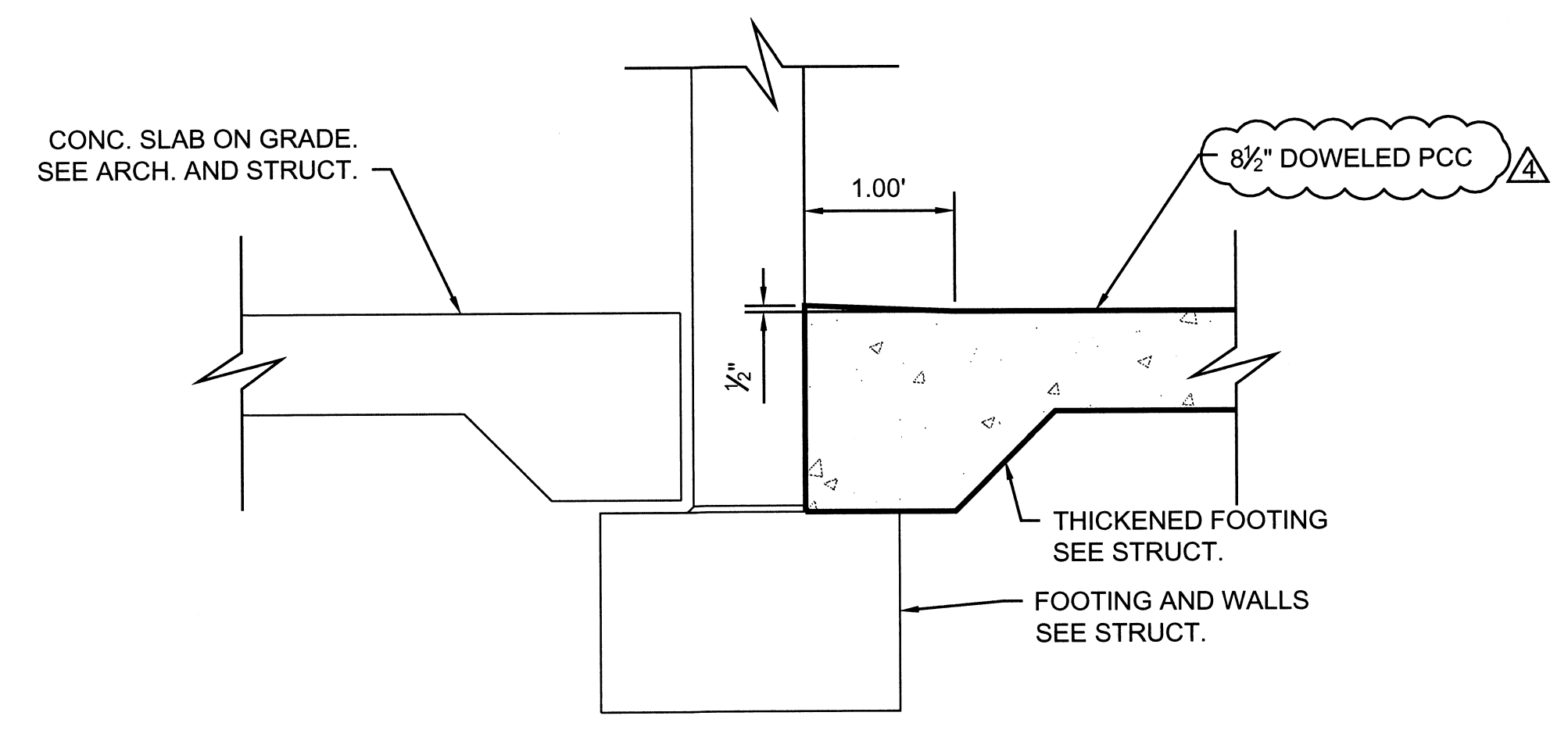
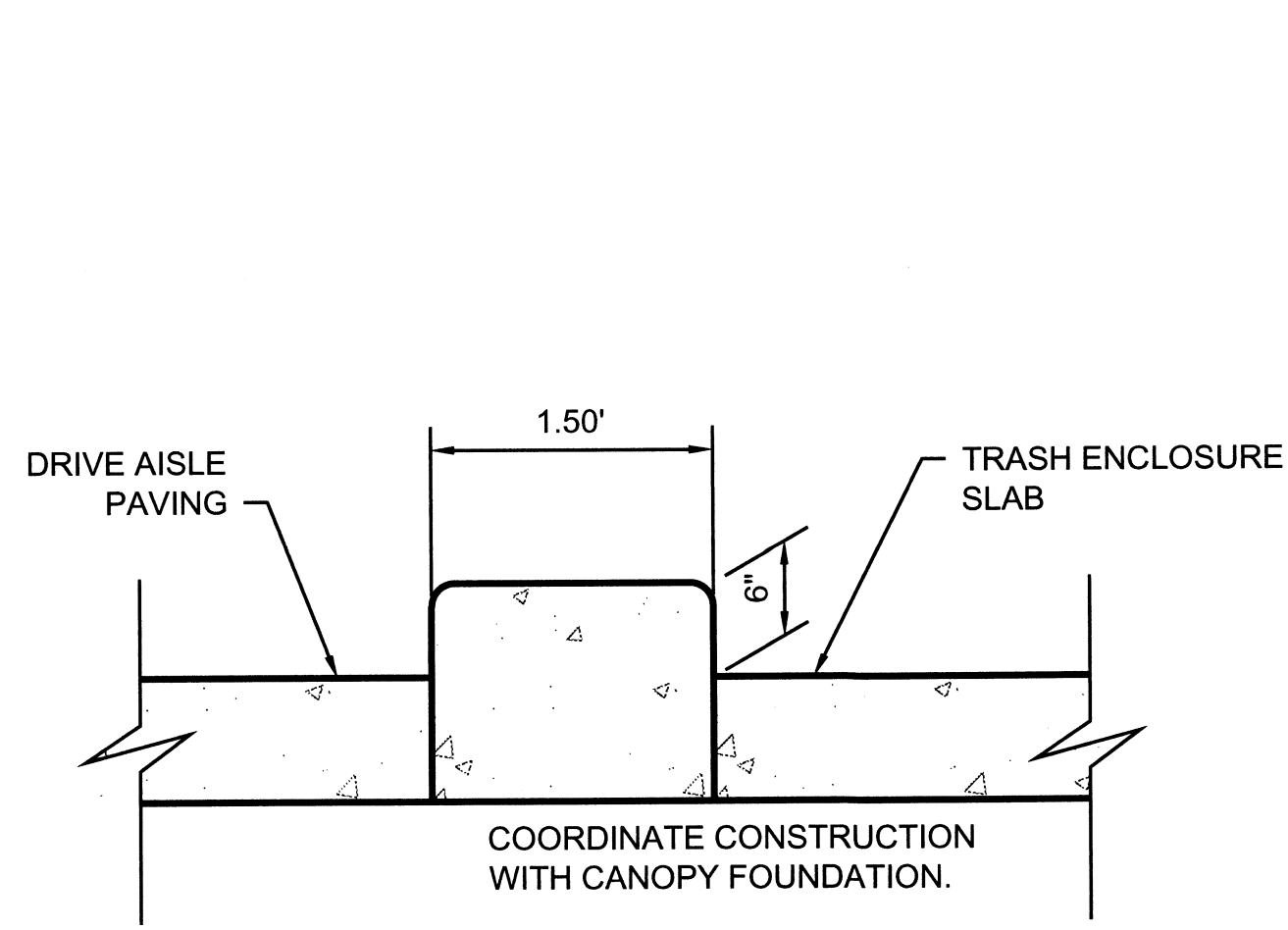
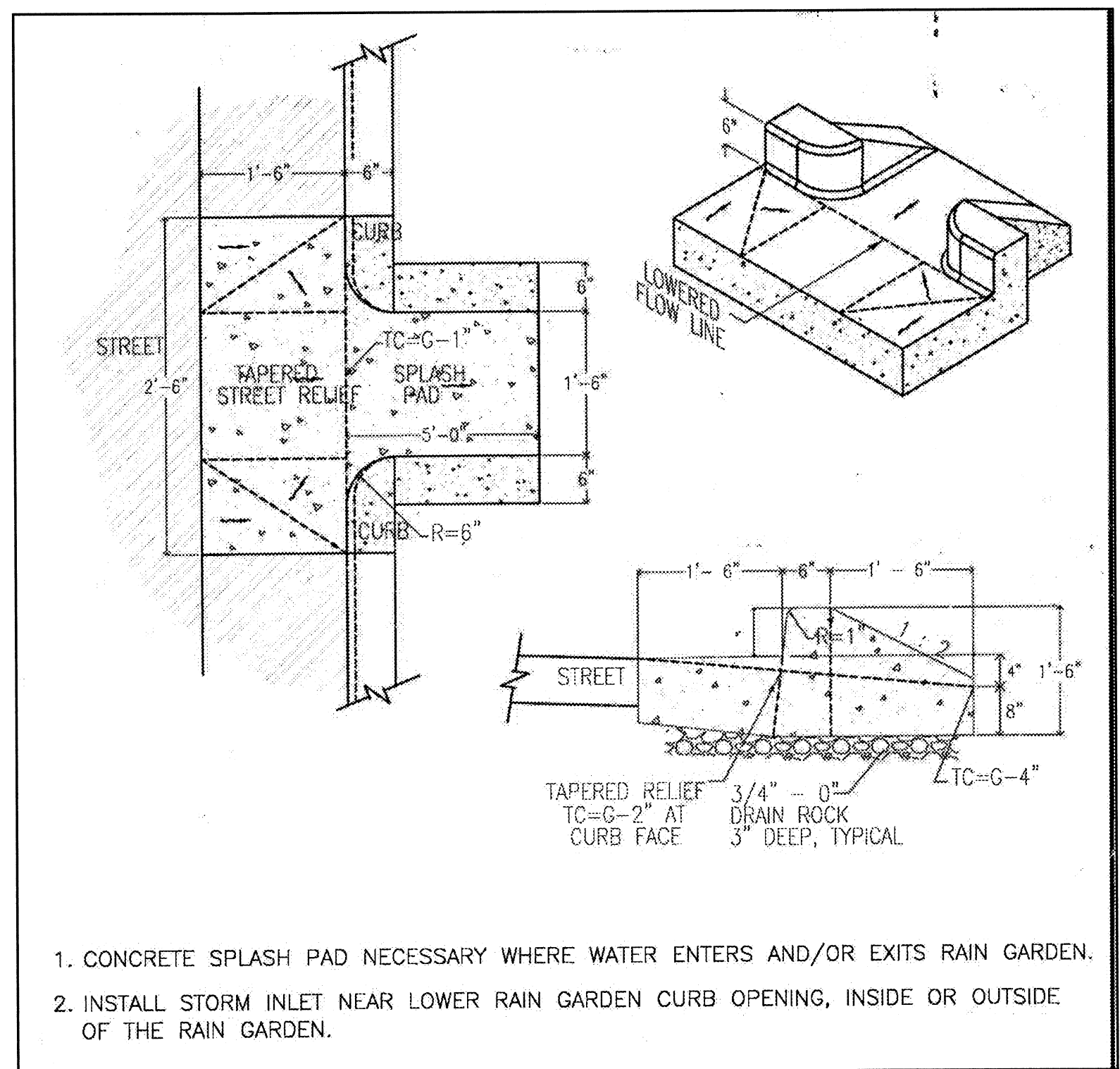
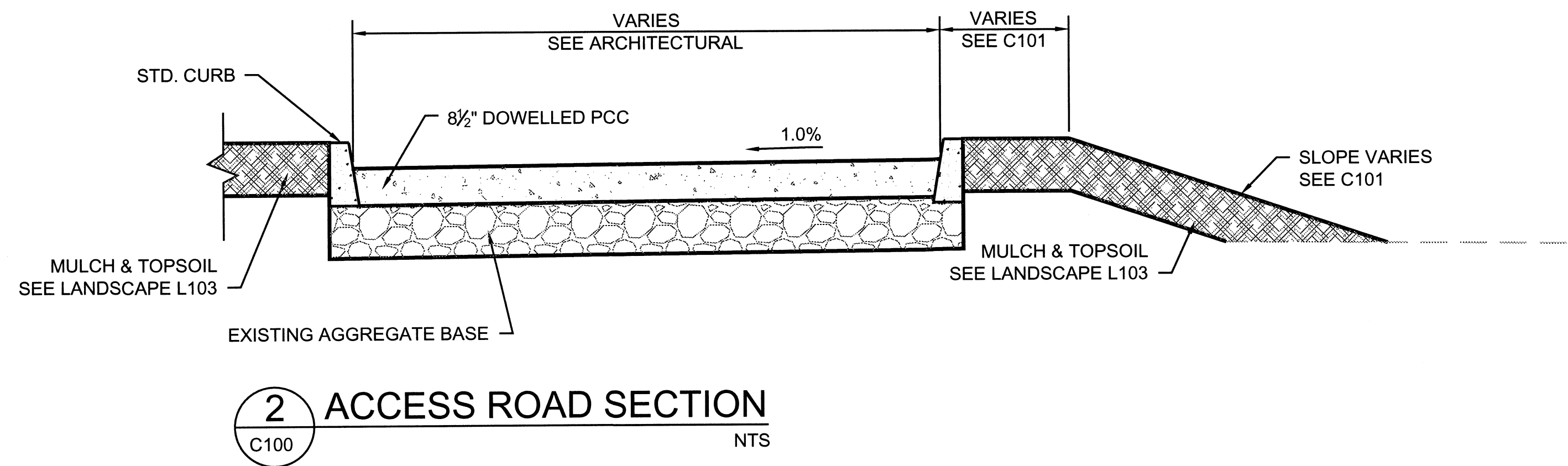
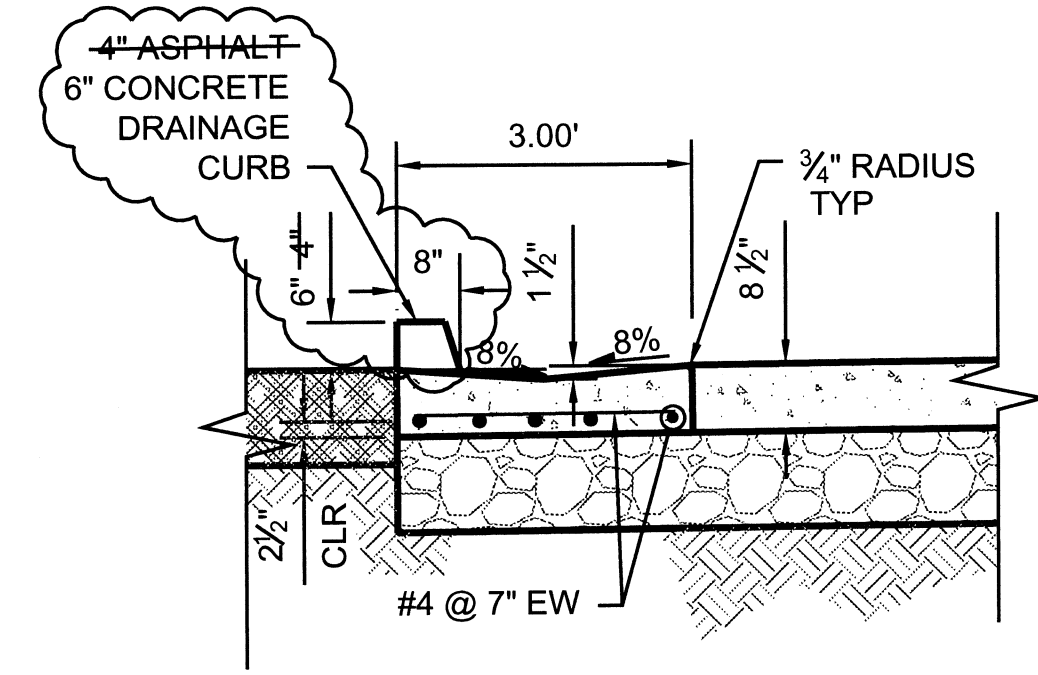
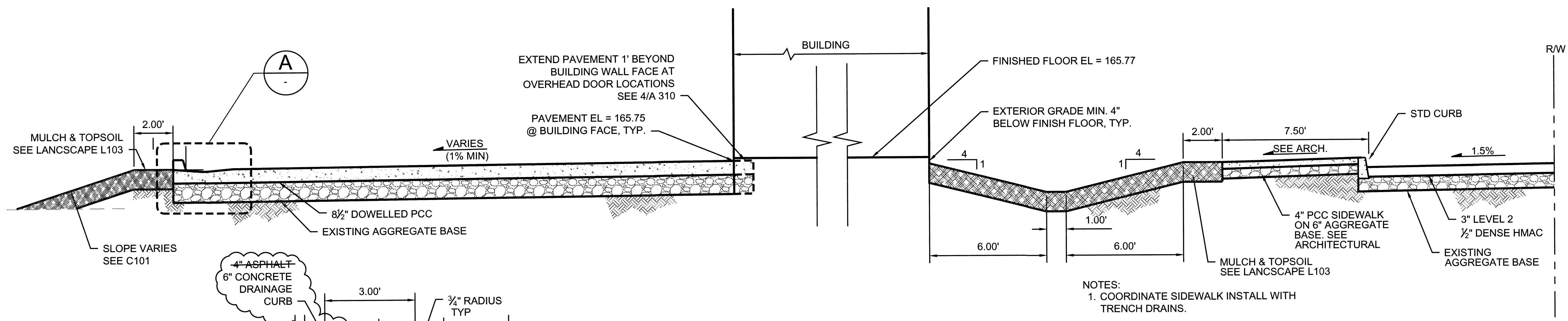
**PARSONS  
BRINCKERHOFF**

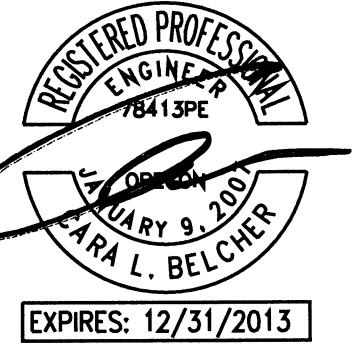
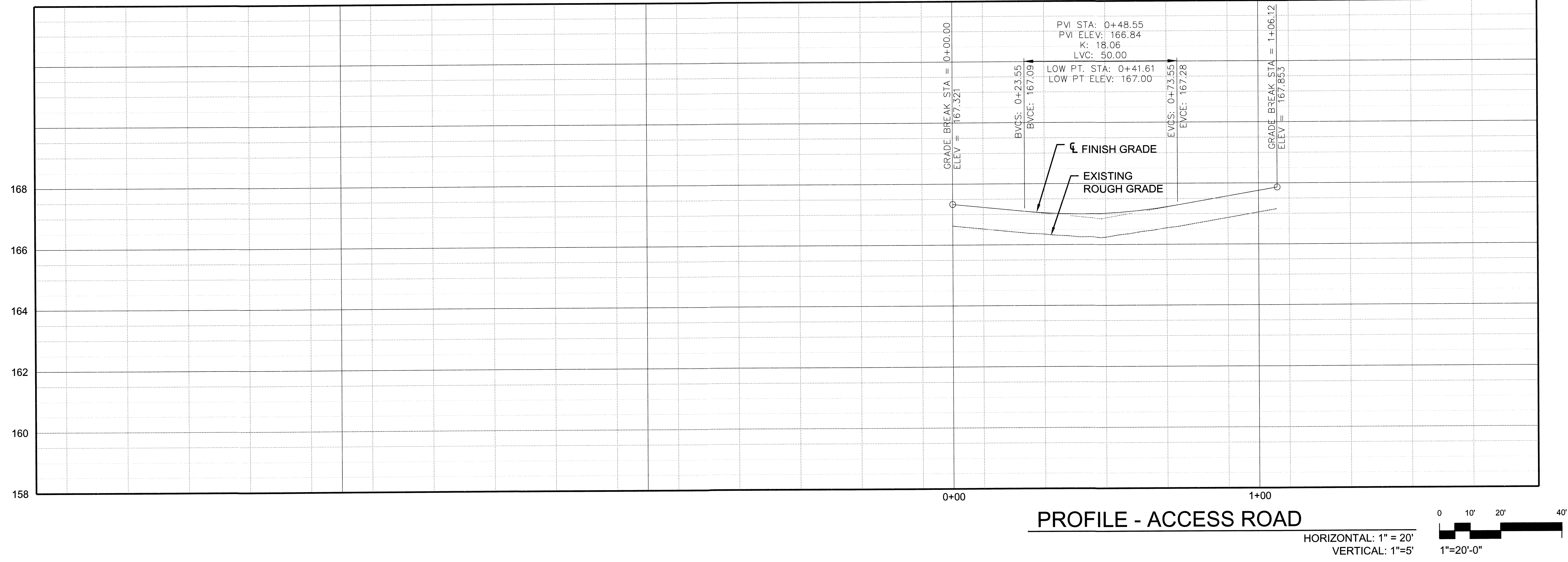
RECORD DRAWINGS - PHASE 2 -  
BUILDING AND SITE IMPROVEMENTS  
CITY OF WILSONVILLE  
WILSONVILLE SMART OPERATIONS  
& FLEET FACILITY

CIVIL  
CIVIL DETAILS - 1

PROJECT NO:	1046	REVISIONS:	
DATE:	05/01/2013	CLB	ACC#2
DRAWN:	CLB	C/JH	
CHECKED:			

C103





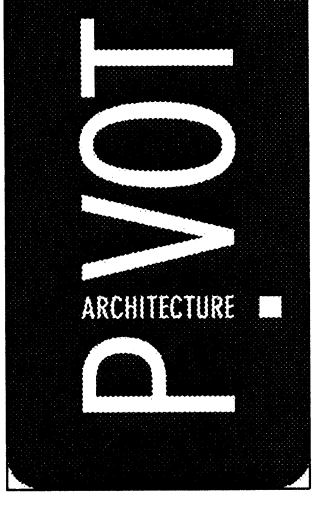
**PARSONS BRINCKERHOFF**

RECORD DRAWINGS - PHASE 2 -  
 BUILDING AND SITE IMPROVEMENTS  
 CITY OF WILSONVILLE  
 WILSONVILLE SMART OPERATIONS  
 & FLEET FACILITY

PROJECT NO:	1046	REVISIONS:	
DATE:	08/01/2013		
DRAWN:	CLB		
CHECKED:	CH		

PUBLIC WORKS  
 PLAN AND PROFILE  
 ACCESS ROAD

C104



**CIVIL ABBREVIATIONS:**

<b>A</b> AC ASPHALTIC CONCRETE OR ALTERNATING CURRENT	<b>F</b> FABX FIRE ALARM BOX	<b>P</b> PCC PORTLAND CEMENT CONCRETE
AD AREA DRAIN	FC FIBER CONDUIT	PED PEDESTRIAN
AGG AGGREGATE	FD FLOOR DRAIN	PERF PERFORATED
AGG B AGGREGATE BASE	FF FINISH FLOOR	PGL PROFILE GRADE LINE
AGG SB AGGREGATE SUB-BASE	FG FINISHED GRADE	PL PLATE OR PROPERTY LINE
AHD AHEAD	FH FIRE HYDRANT	PP POWER POLE
ASPH ASPHALT	FIN FINISH	PSF POUNDS PER SQUARE FOOT
ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS	FL FLOW LINE	PSI POUNDS PER SQUARE INCH
AVT AVENUE	FLR FLOOR	PVC POLYVINYL CHLORIDE
	FR FRAME	PVMT PAVEMENT
<b>B</b> BEG BEGIN	FS FINISHED SURFACE OF SLAB	
BIT BITUMINOUS	FT FOOT OR FEET	<b>Q</b> QTY QUANTITY
BK BACK	F/C FACE OF CURB	
BL BASELINE	F/F FACE TO FACE	<b>R</b> R RADIUS
BLDG BUILDING		RCP REINFORCED CONCRETE PIPE
BM BENCHMARK	<b>G</b> GA GAUGE	RE MANHOLE RIM ELEVATION
BRG BEARING	GALV GALVANIZED	REF REFERENCE
BSMT BASEMENT	GE GRATE ELEVATION	REINF REINFORCE, REINFORCING, REINFORCEMENT
B/B BACK TO BACK	GM GAS METER	RGS RIGID GALVANIZED STEEL
BW BACK OF WALK	GSC GALVANIZED STEEL CONDUIT	ROW RIGHT-OF-WAY
		RSC RIGID STEEL CONDUIT
		RT RIGHT
<b>C</b> CB CATCH BASIN	<b>H</b> HMAC HOT MIX ASPHALT CONCRETE	<b>S</b> S SOUTH
CF CUBIC FEET	HORIZ HORIZONTAL	SD STORM DRAIN
CI CURB INLET	HP HIGH POINT	SHT SHEET
CIP CAST-IN-PLACE	HS HIGH STRENGTH	SLO SLOPE
CL CENTER LINE		SP STEEL PIPE
CLR CLEAR, CLEARANCE	<b>I</b> ID INSIDE DIAMETER	ST STREET
CMP CORRUGATED METAL PIPE	IE INVERT ELEVATION	STA STATION
CONC CONCRETE	IN INCHES	STD STANDARD
CND CONDUIT	INV INVERT	STM STEAM LINE
CO CLEANOUT	IP IRON PIPE	SYM SYMMETRICAL
CONT CONTINUOUS	IR IRON ROD	SS SANITARY SEWER
CONST CONSTRUCTION		
CORR CORRUGATED	<b>J</b> JT JOINT	
C.O.W. CITY OF WILSONVILLE		<b>T</b> TBM TEMPORARY BENCHMARK
CP CONCRETE PIPE	<b>L</b> LF LINEAR FEET	TYP TYPICAL
CTB CEMENT TREATED BASE	LT LEFT	TC TOP OF CURB
CU COPPER		TW TOP OF WALL
CU IN CUBIC INCH	<b>M</b> M METER	
CY CUBIC YARD	MAX MAXIMUM	<b>U</b> UD UNDERDRAIN
CL CURB LINE	MH MANHOLE	USC&GS UNITED STATES COASTAL & GEODETIC SURVEY
	MIN MINIMUM	
	MISC MISCELLANEOUS	<b>V</b> VAR VARIABLE
	MO MIDDLE ORDINATE	VERT VERTICAL
<b>D</b> DI DROP INLET	MON MONUMENT	
DIA DIAMETER	MPH MILES PER HOUR	
DIP DUCTILE IRON PIPE		<b>W</b> W WEST
DRWY DRIVEWAY	<b>N</b> N NORTH	WM WATER METER
DWG DRAWING	NF NEAR FACE	WP WORK POINT
	NIC NOT IN CONTRACT	W WITH
	NMC NON-METALLIC CONDUIT	W/O WITHOUT
<b>E</b> E EAST	NO NUMBER	WWW SANITARY SEWER/WASTE WATER
EA EACH	NS NEAR SIDE	
EF EACH FACE	NTS NOT TO SCALE	
EL ELEVATION		<b>X</b> XING CROSSING
EQ EQUAL	<b>O</b> OC ON CENTER	X-OVER CROSSOVER
EQN EQUATION	OD OUTSIDE DIAMETER	
ESMT EASEMENT	OLAY OVERLAY	
EW EACH WAY	OPP OPPOSITE	
EXIST EXISTING		
EXP EXPANSION		
E/P EDGE OF PAVEMENT		

**LEGEND:**

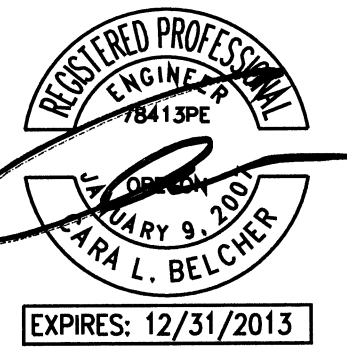
	EXISTING CATCH BASIN OR AREA DRAIN		EXISTING GAS LINE
	EXISTING WATER VALVE		EXISTING SANITARY SEWER
	EXISTING WATER METER		EXISTING RIGHT-OF-WAY
	EXISTING FIRE HYDRANT		EXISTING SEWER LINE
	EXISTING CLEANOUT		EXISTING WATER LINE
	EXISTING MANHOLE		EXISTING ELEC LINE
	CATCH BASIN		EXISTING TELEPHONE LINE
	WATER VALVE		EXISTING GAS LINE
	WATER METER		EXISTING STORM DRAIN LINE
	FIRE HYDRANT		EXISTING CURB LINE
	AREA DRAIN - ROUND		GAS LINE
	AREA DRAIN - SQUARE		SANITARY SEWER
	CURB INLET		CURB LINE
	MANHOLE		RIGHT-OF-WAY
	RIPRAP BANK PROTECTION		PROPERTY LINE
	CONSTRUCTION ENTRANCE		CONSTRUCTION EASEMENT
			PERMANENT EASEMENT
			TRENCH DRAIN
			STORM DRAIN LINE
			SEWER LINE
			WATER LINE
			DITCH LINE
			GRADE BREAK LINE
			SEDIMENT FENCE
			LIMITS - MATTING
			DIRECTION OF FLOW

**GENERAL CONSTRUCTION NOTES:**

- ALL HORIZONTAL AND VERTICAL DISTANCES ARE IN FEET AND/OR DECIMALS OF A FOOT EXCEPT AS NOTED OTHERWISE. ALL GRADIENTS ARE IN PERCENT, EXCEPT AS NOTED OTHERWISE.
- LOCATION AND/OR DEPTH OF EXISTING UTILITIES SHOWN ON PLANS ARE APPROXIMATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES FOR UNDERGROUND LOCATION OF FACILITIES AT LEAST 48 HOURS PRIOR TO EXCAVATING OR "POTHOLING". THE "ONE-CALL" NUMBER (800) 332-2344.
- OREGON LAW REQUIRES THE CONTRACTOR TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0100. THE CONTRACTOR MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (800) 332-2344.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH UTILITY COMPANIES ON THE TIMING OF INSTALLATION OF THEIR FACILITIES.
- ALL STATIONS AND OFFSETS TO DRAINAGE STRUCTURES ARE TO STRUCTURE WORK POINT AS SHOWN ON DETAILS. OFFSETS TO DITCHES ARE TO THE CENTERLINE OF DITCH, EXCEPT AS NOTED.
- ALL EXISTING UTILITIES ARE TO REMAIN UNLESS NOTED OTHERWISE ON THE CONTRACT DRAWINGS.
- CONSTRUCTION SHALL CONFORM TO THE PROJECT SPECIFICATIONS. FOR ADDITIONAL WORK NOT COVERED IN THE PROJECT SPECIFICATIONS, THE WORK SHALL BE PERFORMED TO THE CITY OF WILSONVILLE PUBLIC WORKS STANDARDS.
- THIS PROJECT SHALL COMPLY WITH THE AMERICAN DISABILITIES ACT REQUIREMENTS SUCH AS INCORPORATION OF DESIGN CRITERIA FOR HANDICAP RAMPS, MAXIMUM PROFILE AND CROSS SECTION SLOPES FOR SIDEWALKS, UPGRADING EXISTING HANDICAP FACILITIES WHERE MAJOR CONSTRUCTION IS OCCURRING, AND BUILDING WARNING FOR OBJECTS IN SIDEWALK SUCH AS CURBING OR LANDSCAPING AROUND MAILBOXES.
- THE CONTRACTOR SHALL PROVIDE ALL TRAFFIC CONTROL DEVICES NECESSARY TO PROTECT AND SAFEGUARD THE PUBLIC AND WORKERS AGAINST INJURY AND PROTECT THE WORK AGAINST DAMAGE. ALL TEMPORARY TRAFFIC CONTROL SIGNING AND DEVICES SHALL BE IN PLACE PRIOR TO BEGINNING WORK. ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD), CURRENT EDITION, AS SUPPLEMENTED AND AMENDED BY THE OREGON SUPPLEMENTS. FLAGGING SHALL BE PERFORMED AS SHOWN IN THE OREGON STATE HIGHWAY DIVISION HANDBOOK, "SIGNING AND FLAGGING STANDARDS FOR SHORT-TERM WORK ZONES", CURRENT EDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REQUIRED TRAFFIC CONTROL AS FIELD CONDITIONS WARRANT.
- THE CONTRACTOR SHALL NOT PERFORM WORK WITHOUT CITY INSPECTIONS WHERE INSPECTIONS ARE REQUIRED BY THE SPECIFICATIONS.
- ALL IMPROVEMENTS THAT WILL BE PRIVATELY OWNED AND MAINTAINED WILL BE BOUND BY THE CURRENT REQUIREMENTS OF THE STATE OF OREGON STRUCTURAL SPECIALTY CODE, PLUMBING SPECIALTY CODE, AND/OR CITY OF WILSONVILLE BUILDING DIVISION REQUIREMENTS. CONTRACTOR IS RESPONSIBLE TO OBTAIN APPLICABLE PERMITS FROM OTHER CITY DEPARTMENTS PRIOR TO DOING PRIVATE WORK.
- ALL SANITARY AND STORM SEWER CONNECTIONS TO EXISTING CITY OWNED FACILITIES (PIPE, CATCH BASINS, MANHOLES, ETC.) SHALL BE INSPECTED BY THE CONTRACTOR AND THE CITY'S PUBLIC WORKS MAINTENANCE DEPARTMENT PRIOR TO HOOKING UP TO THEM.
- THE SEWER GRADE SHALL BE PER THE PLANS SPECIFICATIONS AND WITH THE MINIMUM COVER AS SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL INTERNALLY TELEVISION INSPECT THE SEWER AFTER ALL BACKFILL AND BEFORE THE FINAL LIFT OF ASPHALT PAVING. THE CONTRACTOR SHALL SUPPLY THE CITY WITH A WRITTEN T.V. REPORT AND VIDEO TAPE FOR CITY APPROVAL AT LEAST 2 WORKING DAYS BEFORE THE PRE-PAVING MEETING.
- THE CONTRACTOR SHALL FINE GRADE ALL DISTURBED SLOPES AND PROTECT TO CONTROL EROSION.
- REQUESTS BY THE CONTRACTOR FOR CHANGES TO THE PLANS MUST BE APPROVED BY THE ENGINEER AND THE CITY BEFORE THE CHANGES ARE IMPLEMENTED.
- WHEN PERFORMING EXCAVATIONS, THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS OF ORS 757.541 TO 757.571, WHICH INCLUDE REQUIREMENTS THAT THE CONTRACTOR HAND-EXPOSE (POT HOLE) UNDERGROUND FACILITIES AND USE REASONABLE CARE TO AVOID DAMAGING THEM.
- DURING CONSTRUCTION, RUNOFF FROM THE SITE SHALL BE CONTROLLED, AND INCREASED SEDIMENTS RESULTING FROM SOIL DISTURBANCES SHALL BE RETAINED ON-SITE. THE CONTRACTOR SHALL PROVIDE TEMPORARY DIVERSIONS, SEDIMENT TRAPS, BARRIERS, CHECK DAMS OR OTHER METHODS AS NECESSARY TO PREVENT AND/OR MINIMIZE NEGATIVE IMPACTS TO WATER QUALITY AND RELATED NATURAL RESOURCES.
- PLACEMENT OR STORAGE OF SPOILS FROM UTILITY LINE TRENCHES IS NOT PERMITTED ON HARD SURFACE STREETS WITHIN THE PUBLIC RIGHTS-OF-WAY. SPOILS STORED IN OTHER RIGHT-OF-WAY AREAS SHALL BE COVERED TO PREVENT EROSION.
- UNLESS OTHERWISE NOTED IN PLANS OR PROJECT SPECIFICATIONS, THE COMPACTION REQUIREMENTS ARE:

LAYER	RATE	TEST
CRUSHED ROCK	95%	T180
ASPHALT	90%	RICE
- UNLESS OTHERWISE NOTED IN PLANS OR PROJECT SPECIFICATIONS, THE CONCRETE STRENGTH REQUIREMENTS ARE:

CONCRETE USE	FIELD	LABORATORY
SIDEWALK/ADA RAMPS	3000	3450
CURBS/GUTTERS	3500	4025
DRIVEWAYS (PARKING LOT & LES')	3500	4025
PARKING	4000	4600
- ALL JOINTS BETWEEN EXISTING AND NEW ASPHALT PAVING SHALL BE SEALED WITH POLYMERIZED ASPHALT AND SANDED TO PREVENT PICK UP.
- TREES IDENTIFIED TO BE PROTECTED SHALL BE PROTECTED AS SPECIFIED IN THE PROJECT SPECIFICATIONS AND AS OTHERWISE NOTED ON APPROVED PLANS OR AS REQUIRED BY THE CITY'S URBAN FORESTER, OR THE ARCHITECT.
- CONTRACTOR SHALL SUBMIT EVIDENCE OF INSURANCE IN ACCORDANCE WITH THE STANDARD SPECIFICATION TO THE CITY FOR APPROVAL PRIOR TO BEGINNING WORK.



**PARSONS BRINCKERHOFF**  
 RECORD DRAWINGS - PHASE 2 - BUILDING AND SITE IMPROVEMENTS  
 CITY OF WILSONVILLE  
 WILSONVILLE SMART OPERATIONS & FLEET FACILITY

PROJECT NO:	1086	REVISIONS:	
DATE:	08/01/2013	CLB	
DRAWN:		CLB	
CHECKED:		JSH	
PW-100			

**General**

1. All construction or improvements to public works facilities shall be in conformance to the City of Wilsonville Public Works Standards – 2006 and the requirements of the City of Wilsonville. All work within the Public R.O.W. or Public Easements requires a Public Works permit. Contractor shall provide the City with 24-hr notice before working within the Public R.O.W. or Public Easements.
2. City reserves right to direct testing agency on frequency of testing.
3. All survey monuments on the subject site, or that may be subject to disturbance within the construction area, or the construction of any off-site improvements shall be adequately referenced and protected prior to commencement of any construction activity. If the survey monuments are disturbed, moved, relocated, or destroyed as a result of any construction, the project shall, at it's cost, retain the services of a professional land surveyor registered in the State of Oregon to restore the monument to its original condition and file the necessary surveys as required by Oregon State law. A copy of any recorded survey shall be submitted to Staff.

**Erosion Control Notes**

4. Gravel construction entrances shall be installed at the beginning of construction and maintained for the duration of the project. Additional measures may be required to insure that all paved areas are kept clean for the duration of the project.
5. Contractor shall provide and maintain silt sack protection at the nearest catch basin inlet(s) downstream of the project site.
6. The Contractor shall install, operate, and maintain adequate erosion control measures in conformance with the standards adopted by the City of Wilsonville Ordinance No. 482 during the construction of any public utilities and building improvements until such time as approved permanent vegetative materials have been installed.
7. If ground cover is not established by October 15, the open areas shall be protected through the winter with mulch, erosion blankets, or other method(s) approved by the City.
8. During all phases of work the contractor shall take precautions to abate any dust nuisance. Dust shall be minimized to the extent practicable and prevention measures shall be continuous until final inspection by the City.
9. No person shall create physical erosion by dragging, dropping, tracking, or otherwise placing or depositing, or permitting to be deposited, mud, dirt rock, or other such debris on a public street, or into any part of the public stormwater and surface water system, or into any part of a private stormwater and surface water system that drains or connects to the public stormwater and surface water system. Any such deposited material shall be immediately removed by hand labor or mechanical means. No material shall be washed or flushed into any part of the stormwater and surface water system until all mechanical means to remove the debris are exhausted and preventive sediment filtration is in place.

**Streets**

10. Where trees are located within 8 feet of all public curbs and public sidewalks, they shall be protected from root intrusion with a root control barrier system designed by a Professional Landscape Architect registered in the state of Oregon, and approved by the City's authorized representative. Generally, the root control system should be installed a minimum of 24 inches deep, with a minimum 20-foot length centered on the tree base. Installation of such systems shall be done so as to not disturb the sidewalk or base rock previously installed.

**Storm Sewer Notes**

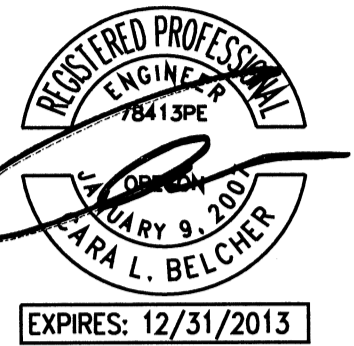
11. All construction staking of public storm lines shall be performed by or under the direction of a Professional Land Surveyor registered in the State of Oregon. Stakes shall locate all public tees, cleanouts, manholes, catch basins, area drains, water quality stations, and pump stations. Maximum spacing for reference stakes is 50 feet. Construction shall not be allowed before staking is performed.
12. Storm laterals shall have locating wire (12 gage white insulation) installed beside the pipe and plastic caution tape installed 1-foot above the pipe crown. Surface locating wire at right-of-way cleanouts; tape shall be tied off to the 2 x 4 marker.
13. Newly constructed curbs or replaced curbs shall be stamped with the capitol letter "SD" at the location of each storm lateral crossing. Letters shall be 3 inches in height and embossed a minimum of 1/8-inch deep located in the gutter.
14. All storm lines shall be flushed and cleaned prior to testing. If necessary, the contractor shall use mechanical rodding, bucketing or vactor equipment.
15. During flushing, contractor shall provide screening and remove all accumulated construction debris, rocks, gravel, sand, silt, and other foreign material from the system at or near the closest downstream manhole; no material shall be flushed into the downstream city sewer system.
16. All storm lines shall be video inspected. In addition, storm lines constructed of flexible pipe shall be deflection tested. Contractor to furnish all necessary test equipment and perform the tests in a manner satisfactory to the City. City Engineering Staff shall be present during testing (24-hr notification).
17. Pavement shall not be installed and stormwater facilities shall not be activated and/or connected to public storm systems or waterways until facility has been approved by City Staff.

**Sanitary Sewer Notes**

18. All construction staking of public sewer lines shall be performed by or under the direction of a Professional Land Surveyor registered in the State of Oregon. Stakes shall locate all tees, cleanouts, manholes, water line crossings, and pump stations. Maximum spacing for reference stakes is 50 feet. Construction shall not be allowed before staking is performed.
19. Sanitary laterals shall have locating wire (12 gage green insulation) installed beside the pipe and plastic caution tape installed 1-foot above the pipe crown. Surface locating wire at right-of-way cleanouts; tape shall be tied off to the 2 x 4 marker.
20. Newly constructed curbs or replaced curbs shall be stamped with the capitol letter "SS" at the location of each sanitary lateral crossing. Letters shall be 3 inches in height and embossed a minimum of 1/8-inch deep located in the gutter.
21. All public sewer lines shall be flushed and cleaned prior to testing. If necessary, the contractor shall use mechanical rodding, bucketing or vactor equipment.
22. During flushing, contractor shall provide screening and remove all accumulated construction debris, rocks, gravel, sand, silt, and other foreign material from the system at or near the closest downstream manhole; no material shall be flushed into the downstream city sewer system.
23. All public sewer lines shall be pressure tested and video inspected. In addition, sewers constructed of flexible pipe shall be deflection tested. Contractor to furnish all necessary test equipment and perform the tests in a manner satisfactory to the City. City Engineering Staff shall be present during testing (24-hr notification).
24. Public sanitary sewer manholes shall be tested for acceptance after backfill is placed and compacted and the street paved. Contractor to furnish all necessary test equipment and perform the tests in a manner satisfactory to the City. City Engineering Staff shall be present during testing (24-hr notification).
25. For all public sanitary manholes, the contractor shall supply the City with manhole cover inserts. For public manholes located in natural or landscaped areas or in residential streets, the contractor shall supply manhole cover inserts made of durable plastic. For public manholes located in arterial and collector streets, the contractor shall supply manhole cover inserts made of stainless steel.

**Water Notes**

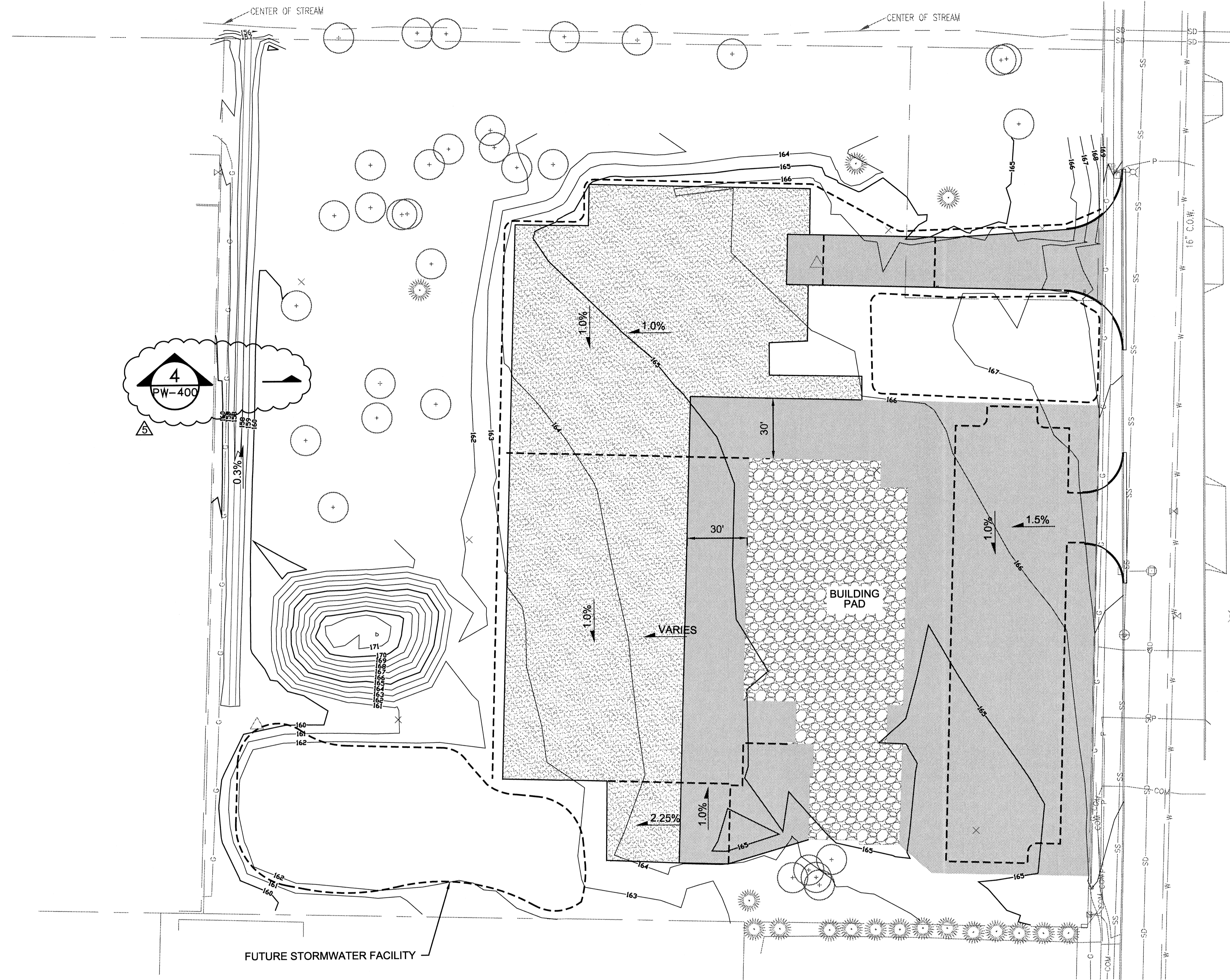
26. All water lines shall be ductile iron with Tyton-joints; 12" or less shall be minimum class 52 ductile iron. All water mains 18" or greater shall be minimum class 51 ductile iron. All fittings shall be mechanical joint unless otherwise specified. Tees and crosses shall be flanged except tees to fire hydrants which will be MJ by flanged. All valves joined to tees and crosses shall be flanged by mechanical joint.
27. All public water lines shall be installed with locating wire (12-gage blue insulation) installed beside the pipe and plastic caution tape installed 1-foot above the pipe crown or after the first compacted lift over the pipe. Wire shall be brought to the surface at all fire hydrants, valve boxes, and blowoffs.
28. All public water lines shall have a minimum of 36 inches of cover.
29. See City of Wilsonville details for thrust blocks and fire hydrant assemblies.
30. All water valves and boxes to be eighteen (18) inches minimum from curb lines.
31. All construction staking of public water lines shall be performed by or under the direction of a Professional Land Surveyor registered in the State of Oregon. Stakes shall locate all bends, tees, crosses, fire hydrants, blowoffs, isolation valves, vaults, and booster pump stations. Maximum spacing for reference stakes is 50 feet. Construction shall not be allowed before staking is performed.
32. After water valve cans are adjusted to finish grade, where the depth of the operation nut is greater than three (3) feet, operating extensions shall be provided to bring the operating nut to a point eighteen (18) inches below the surface of the ground or pavement.
33. Provide polyethylene encasement for all metallic piping within ten (10) feet of any existing cathodically protected gas main according to ANSI/AWWA C105/A21.5.
34. When available for the specified D.I. pipe size, locking rubber gaskets shall be used (for bell ends).
35. Public water lines shall conform to materials and installation requirements as may be required by the City of Wilsonville and Oregon State Plumbing Specialty Code.
36. Public water lines shall be flushed, hydrostatically tested, and disinfected as per City of Wilsonville Standards. City of Wilsonville Engineering Staff shall witness and approve all such tests performed by the Contractor (24-hr notification).
37. Contractor shall provide screening and remove all accumulated construction debris, rocks, gravel, sand, silt, and other foreign material from the system at or near the closest downstream manhole; no material shall be flushed into the downstream city sewer system.
38. Dispose of flushing and sterilizing water in a manner approved by the City's Authorized Representative. If the volume and chlorine concentration is such as to pose a hazard to the City's Wastewater Treatment Plant operation, the sterilizing water shall be metered into the system per direction of the City's Authorized Representative at a rate not to exceed 300 gpm, or de-chlorinated and disposed into the City's storm system.



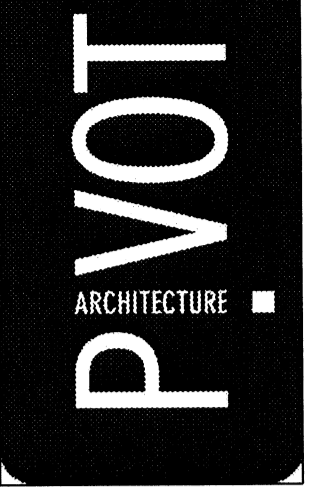
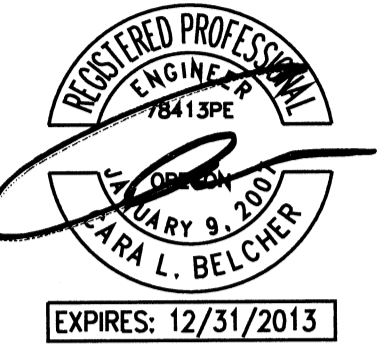
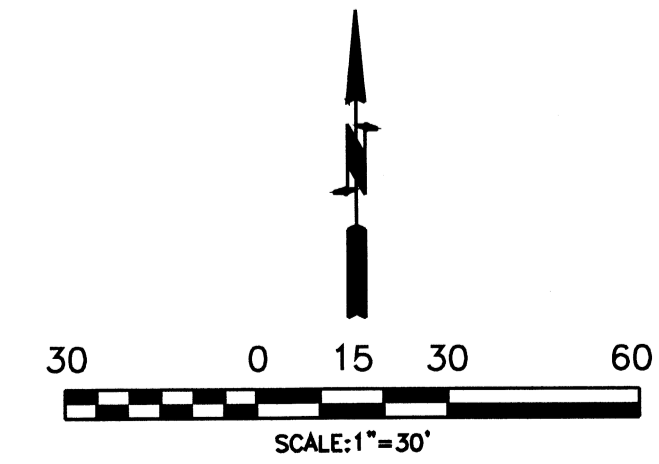
RECORD DRAWINGS - PHASE 2 -  
BUILDING AND SITE IMPROVEMENTS  
CITY OF WILSONVILLE  
WILSONVILLE SMART OPERATIONS  
& FLEET FACILITY

PUBLIC WORKS  
CITY OF WILSONVILLE  
GENERAL NOTES

PROJECT NO.	1046	REVISIONS:	
DATE:	08/01/2013	CLB	CAH
DRAWN:		CHEKED:	



- GRADE BREAK LINE
- EXISTING CONTOUR
- [Stippled pattern] 6" AGGREGATE BASE
- [Cross-hatched pattern] 16" AGGREGATE BASE ON GEOTEXTILE FABRIC.
- [Circular aggregate pattern] 12" AGGREGATE BASE



**PARSONS  
BRINCKERHOFF**

RECORD DRAWINGS - PHASE 2 -  
BUILDING AND SITE IMPROVEMENTS  
CITY OF WILSONVILLE  
WILSONVILLE SMART OPERATIONS  
& FLEET FACILITY

CIVIL  
EXISTING CONDITIONS

PROJECT NO:	1046	REVISIONS:	
DATE:	09/01/2013	DATE:	01/20/2013
DRAWN:	CLB	CHECKED:	CJH
CHECKED:			

PW-102

**City of Wilsonville Erosion and Sediment Control Notes:**

**1. Responsible party.** The property owner or designee shall be responsible for proper installation, maintenance and removal of all erosion and sediment control (ESC) measures, in accordance with the City of Wilsonville, state, and federal regulations.

**2. Installation of ESC measures prior to clearing & grading.** The ESC measures shown in these plans shall be constructed and approved by the City's authorized representative prior to clearing and grading activities, and in such a manner as to ensure that sediment and sediment laden water does not enter the drainage system, roadways, or violate applicable stormwater discharge standards.

**3. Inspections. Initial and final ESC inspections are required.** The City's 24 hour Building/ESC inspection number is (503) 682-4159. All calls requesting inspections that are received by 7:00 A.M. shall be inspected by the end of the day the call was received (no inspections Saturday, Sunday, or Holidays). Tree protection shall be installed, inspected and approved before any ESC measures are placed. The initial ESC inspection shall not occur until tree inspection and approval has occurred. The Property owner or designee shall remove ESC measures, establish permanent groundcover on all exposed soils; solely straw or plastic sheeting is not permanent ground cover; clean and remove trash, construction waste and sediment deposits before receiving a final ESC inspection approval.

**4. Daily inspection.** The ESC measures shall be inspected daily by the property owner or designee and maintained as necessary to ensure proper functioning. All ESC measures requiring maintenance or repair shall be completed immediately.

**5. State 1200-C (DEQ) and 1200-CN (City) permits.** If a site requires an Oregon Department of Environmental Quality (DEQ) 1200-C permit for disturbing five acres or more, an approved copy of the 1200-C shall be submitted to the City's authorized representative before any clearing or grading shall be allowed to proceed. Construction activities including clearing, grading, excavation, and stockpiling that will disturb five (5) or more acres and that may discharge to surface waters or conveyance systems leading to surface waters of the state, require a DEQ 1200-C permit. A DEQ 1200-C permit is also required for construction activities with a cumulative impact that will ultimately disturb five acres or more and which may discharge to surface waters or conveyance systems leading to surface waters of the state. For construction activities that disturb five (5) or more acres, a public review process is required. The property owner or designee is required to follow all 1200-C requirements and make the 1200-C permit available for review if requested by the City's authorized representative. The DEQ 1200-C permits are obtained directly from DEQ. A 1200-CN permit, for disturbing one to five acres, for automatically covered construction activities is issued by the City of Wilsonville for sites meeting applicable ordinance and code requirements.

**6. Code conformance.** The property owner or designee shall install, operate, and maintain adequate ESC measures in conformance with the standards adopted by the City of Wilsonville Erosion Control Ordinance during the construction of any public utilities and private improvements until such time as approved permanent vegetative materials have been installed. The contractor shall read and be familiar with the City's Erosion Control standards and ODOT construction Erosion Control standards. The contractor shall adhere to the more restrictive of the two standard requirements when performing Public Works Projects, available at <http://ci.wilsonville.or.us/Index.aspx?page=61> or [WWW.ci.wilsonville.or.us](http://WWW.ci.wilsonville.or.us) then ... I want to tab> Download Documents> Community Development Folder> Natural Resources Folder> Ordinance 482.

**7. Scope of responsibility.** The implementation of the approved ESC plan, including the installation, construction, maintenance, replacement, upgrading and removal of the ESC measures are the responsibility of the property owner or designee until all construction is completed and approved, and all vegetation/landscaping is established. The property owner or designee shall be responsible for maintenance of the ESC measures until they relinquish ownership of the property.

**8. Erosion control.** No person shall create physical erosion by dragging, dropping, tracking, or otherwise placing or depositing, or permitting to be deposited, mud, dirt, rock, or other such debris on a public street, or into any part of the public stormwater and surface water system, or into any part of a private stormwater and surface water system that drains or connects to the public stormwater and surface water system. Any such deposited material shall be immediately removed by hand labor or mechanical means. No material shall be washed or flushed into any part of the stormwater and surface water system until all mechanical means to remove the debris are exhausted and preventive sediment filtration is in place. No discharge containing visible solids is allowed. All above ground treatment facilities (swales, ponds, etc.) shall be completed and approved prior to any stormwater being allowed to enter facility.

O L Q L P X P U H T X L U H P H Q W V - X S T H E S C M E A S U R E S U H  
 depicted in these plans are considered minimum requirements for anticipated site conditions. During the construction period, these ESC measures shall be upgraded as needed for unexpected storm events and changes in construction activities, to ensure that sediment and sediment-laden water does not leave the construction site.

**10. Clearing limits.** The boundaries of the clearing limits depicted on the ESC plan shall be clearly marked in the field prior to clearing. During the construction period, no disturbance beyond the clearing limits shall be permitted. The clearing limit markings shall be maintained by the property owner or designee for the duration of construction.

**11. Toxic & hazardous materials.** Any use of toxic or hazardous materials shall include proper storage, application, and disposal. The property owner or designee shall properly manage hazardous wastes, used oils, contaminated soils, concrete waste, sanitary waste, liquid waste, or other toxic substances discovered or generated during construction.

**12. On-site concrete truck wash area.** The ESC plan shall designate areas for on-site washing of concrete trucks and the disposal of accumulated concrete waste.

**13. Securing of portable toilets.** If required, the property owner or designee shall secure portable toilets, by cable or chain, to posts or stable anchor to prevent them from over-turning and spilling.

**14. Resources for ESC facility design & development.** The property owner or designee shall refer to the Clackamas County Water Environment Services most current version of the "Erosion Prevention and Sediment Control Planning and Design Manual," available on line at <http://www.clackamas.us/wes/designmanual.jsp> and the City of Wilsonville's "Erosion Control Ordinance".

**15. Construction entrances.** Stabilized gravel entrances, with subgrade reinforcement geotextile fabric, shall be installed and maintained for the duration of the project in conformance with Detail S-2240. Additional measures such as a wheel wash may be required to ensure that all paved areas are kept clean for the duration of the project. The construction entrance shall not block existing public accessible routes unless proper closures are approved by the City of Wilsonville Engineering authorized representative.

**16. Protection of stormwater facilities, drains & inlets.** Storm drain inlets, basins, and area drains shall be protected until completion of project. Although there are a number of approved measures for inlet protection, low flow silt sack inserts (no overflow) with biobags around curb inlets are the preferred measures for inlet protection, where applicable. Per DEQ requirements overflow silt sack inserts are not allowed. Low flow silt sack inserts (no overflow) shall be used for street inlets (unless inlet in curb). All storm drain inlet protection measures located in public streets shall not create a hazard to vehicular traffic, bike or pedestrian traffic. If required by the City's authorized representative, a minimum of six (6) extra biobags shall be kept on site at all times for upgrading and repairs.

**17. Cleaning sediment barriers.** At no time shall sediment be allowed to accumulate more than 1/3 of barrier height. Cleaning operations shall not allow sediment-laden water to be intentionally washed into storm sewers, drainage ways or waterbodies. Dry sweeping shall be used to clean up released sediments using appropriate dust control measures.

**18. Permanent ground cover.** Pavement surfaces and permanent vegetation are to be installed as soon as possible. Impervious surfaces shall not be installed until stormwater detention and water quality facilities have been constructed and approved by the City's authorized representative.

**19. Seeding.** Seeding shall be established only between March 1 through May 15 and September 1 through October 15 for each phase of construction. If an irrigation system is installed, seeding may be established from March 1 through November 15.

**20. Wet weather requirements.** Exposed soils and un-vegetated surfaces not fully established by October 15, site shall be subject to wet weather erosion prevention measures in effect through April 30. For requirements, see Clackamas County Water Environment Services' most current version of "Erosion Prevention and Sediment Control Planning and Design Manual," and the City of Wilsonville Erosion Control Ordinance. Any open ground (regardless of slope) is to be covered during the wet weather season if not under active construction (active construction to be determined by the City's authorized representative).

**21. Dust control.** During all phases of work the contractor shall take precautions to abate any dust nuisance. Dust shall be minimized to the extent practicable and prevention measures shall be continuous until final inspection by the City's authorized representative. Additional measures for dust control, if required by the City's authorized representative, shall include at least one (1) water truck on site at all times from June 1 to October 31. In areas subject to wind erosion, appropriate BMP's must be used which may include the application of fine water spraying, plastic sheeting, mulching, or other approved measures.

**22. Use of straw.** Solid straw bales are not to be used for any ESC measures. Straw should only be used loose, to spread as temporary ground cover. A minimum of two inches is to be applied, covering all exposed soils (no visible soils).

**23. Plans.** All ESC plans shall include an appropriate erosion control legend and erosion control details, which are consistent with the City of Wilsonville's Erosion and Sediment Control Notes (including Sediment Fence Notes). Legend symbols are found in the Clackamas County Water Environment Services "Erosion Prevention and Sediment Control Planning and Design Manual," in Appendix A. Erosion control details are also found at <http://www.ci.wilsonville.or.us/Index.aspx?page=404> or [WWW.ci.wilsonville.or.us](http://WWW.ci.wilsonville.or.us) then ... City Hall> Community Development> Engineering> Public Works Standards and the "Erosion Prevention and Sediment Control Planning and Design Manual".

**24. ESC protection behind curbs.** Installation of a ¾" - 0 crushed aggregate is the preferred ESC application where ground is exposed along existing curbing.

**City of Wilsonville Sediment Fence Notes:**

**1. Sediment Fence.** Filter fabric sediment fences shall be installed in conformance with Detail S-2245.

**2. Stitched post loops.** Standard or heavy duty filter fence shall have manufactured stitched post loops with stapled 2"x 2" x 4' posts for installation. Stitched post loops shall be installed on the uphill side of the sloped area.

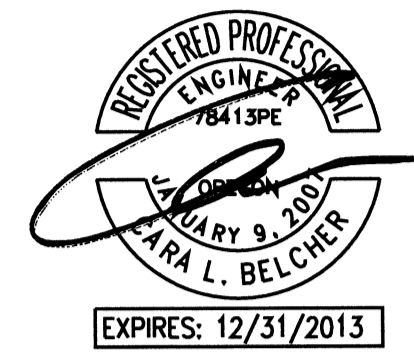
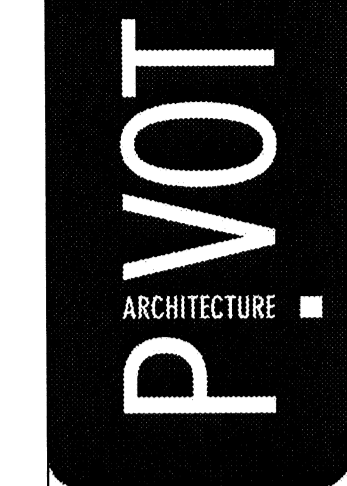
**3. Continuous run / construction of joints.** The filter fabric shall be purchased in a continuous roll, and cut to length in the field to avoid the use of joints. When joints are necessary, connect silt fence ends by spinning 2"x 2" x 4' posts together two to three times and bury as one post.

**4. Installation on contour / finish at termination points.** The filter fence shall be installed to follow the contours where feasible. The posts shall be spaced a maximum of six feet apart and driven securely into the ground. When sediment fence approaches its termination point, turn fence uphill and extend one (1) full panel (6 feet).

**5. Burial of fabric.** The filter fabric shall have a minimum vertical burial of six inches. All excavated material from filter fabric fence installation shall be backfilled and compacted on both sides of fence along the entire disturbed area.

**6. Inspection.** Filter fabric fences shall be inspected by property owner or designee immediately after each rainfall and at least daily during prolonged rainfall. Any required repairs, maintenance or needed upgrades shall be made immediately. If required by the City's authorized representative, a minimum of one (1) full roll of extra filter fabric fencing shall be on site at all times for upgrading and repairs.

**7. Removal.** Filter fabric fences shall be removed when they have served their useful purpose, but not before the upslope area has been permanently protected and stabilized.



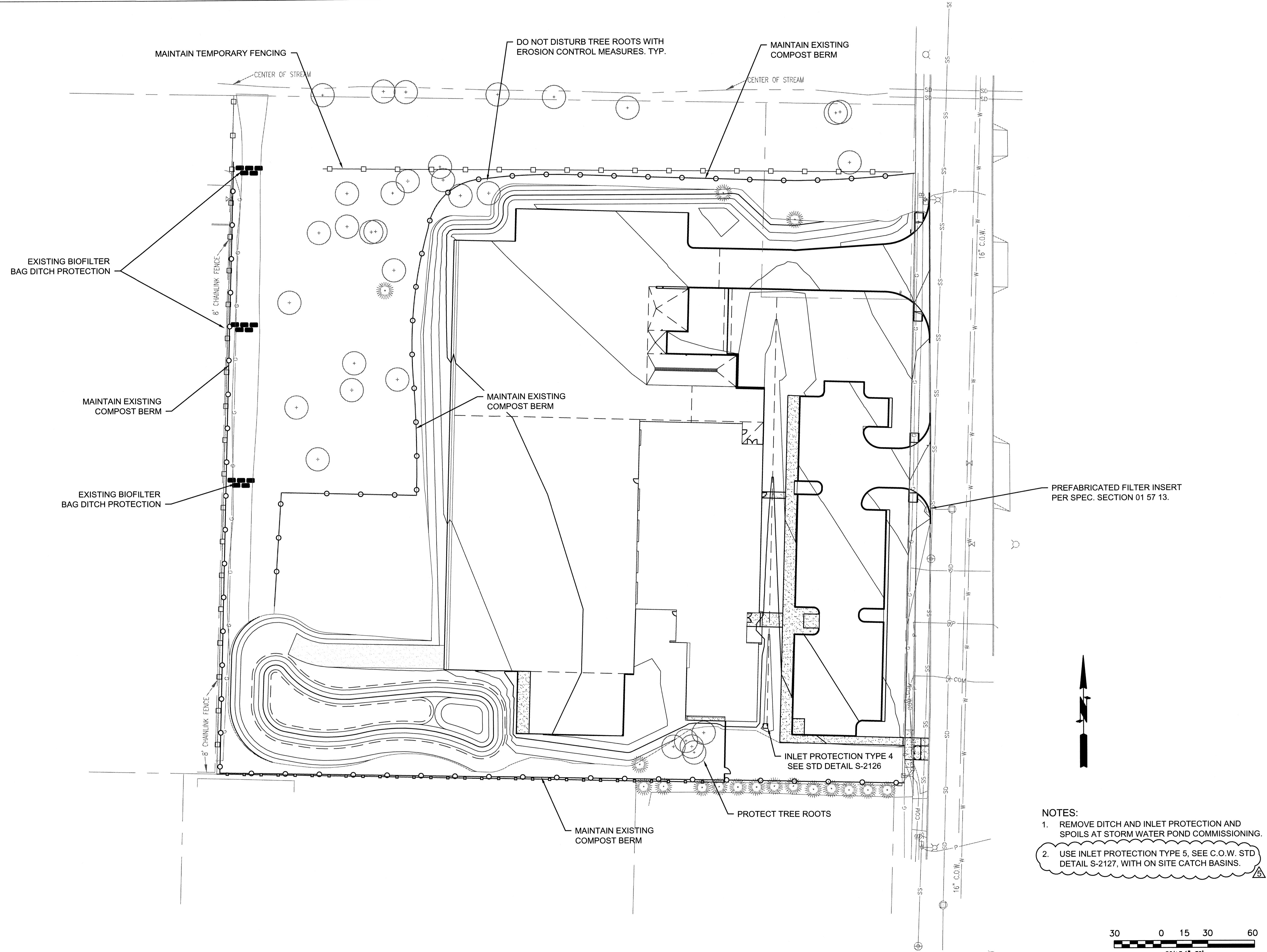
**PARSONS BRINCKERHOFF**

RECORD DRAWINGS - PHASE 2 - BUILDING AND SITE IMPROVEMENTS  
 CITY OF WILSONVILLE  
 WILSONVILLE SMART OPERATIONS & FLEET FACILITY

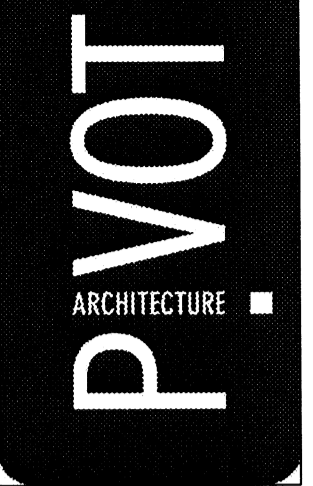
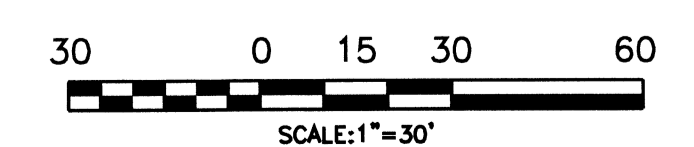
CIVIL  
 EROSION CONTROL  
 NOTES

PROJECT NO.	1046	REVISIONS	
DATE	06/01/2013		
DRAWN		CJH	
CHECKED			

PW-200



- NOTES:**
1. REMOVE DITCH AND INLET PROTECTION AND SPOILS AT STORM WATER POND COMMISSIONING.
  2. USE INLET PROTECTION TYPE 5, SEE C.O.W. STD DETAIL S-2127, WITH ON SITE CATCH BASINS.



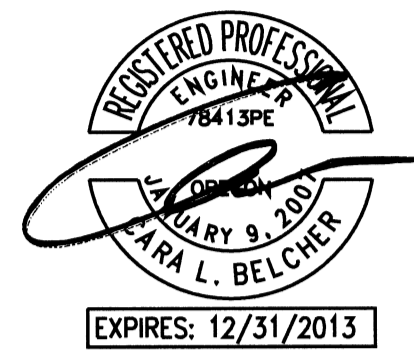
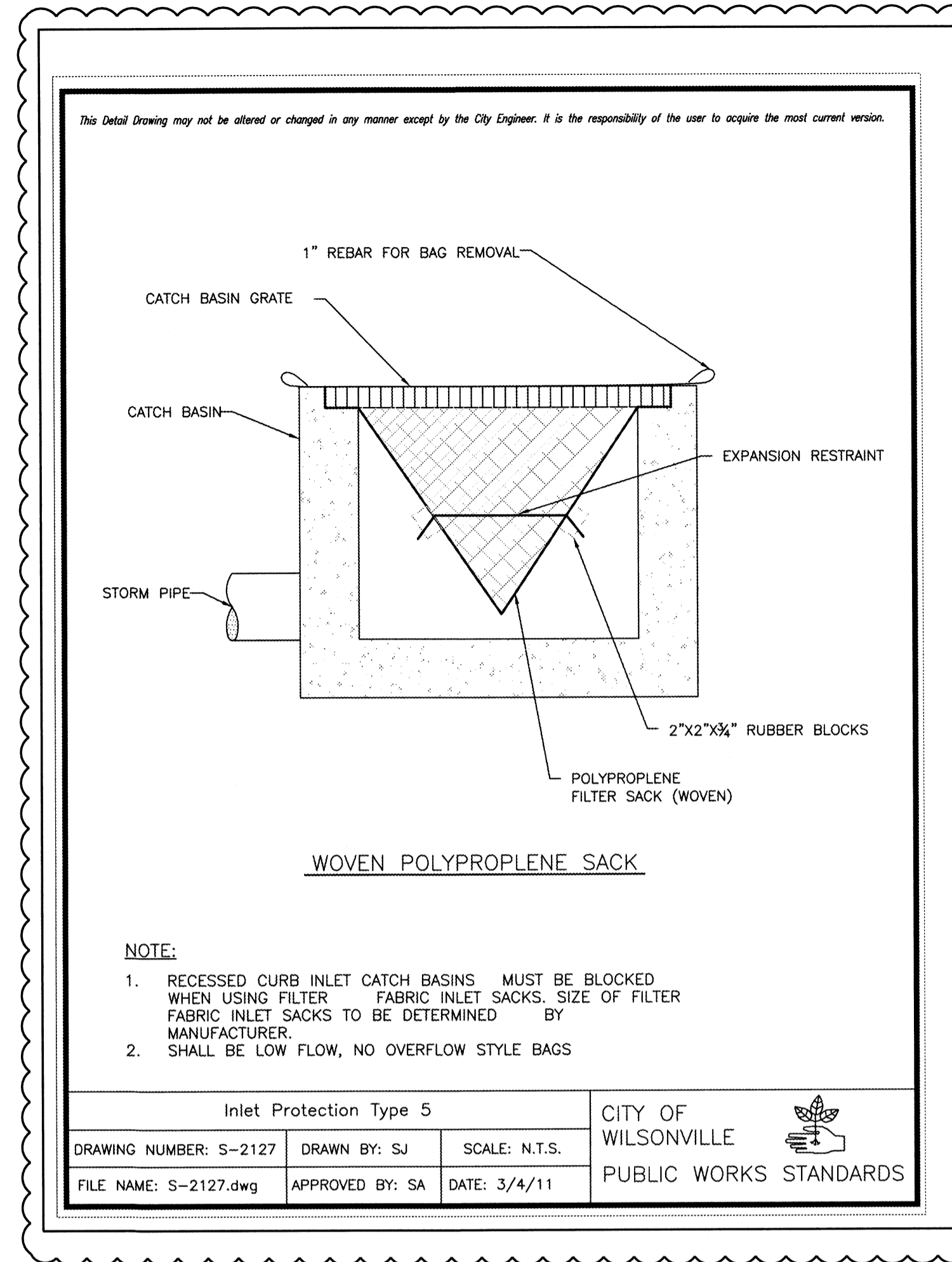
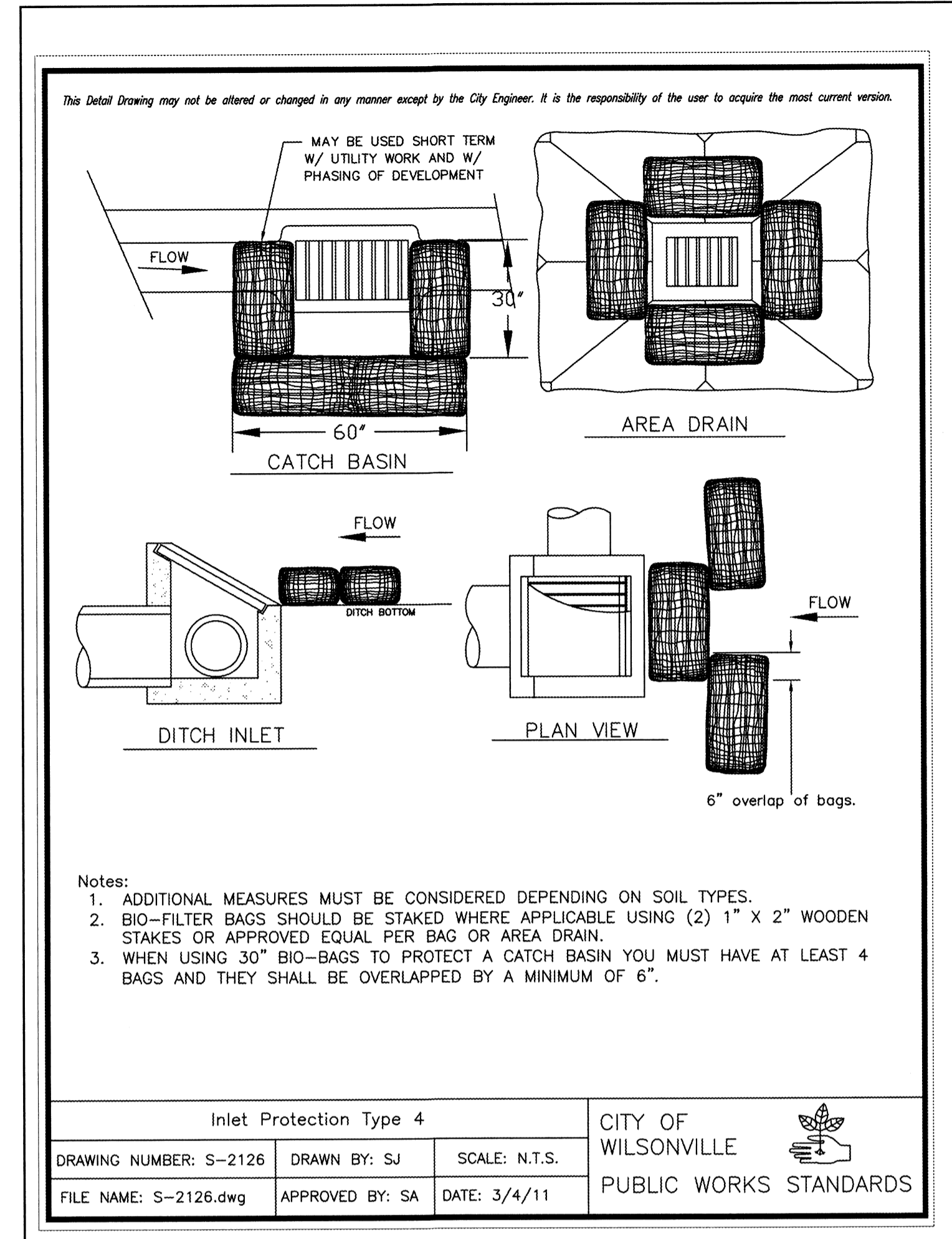
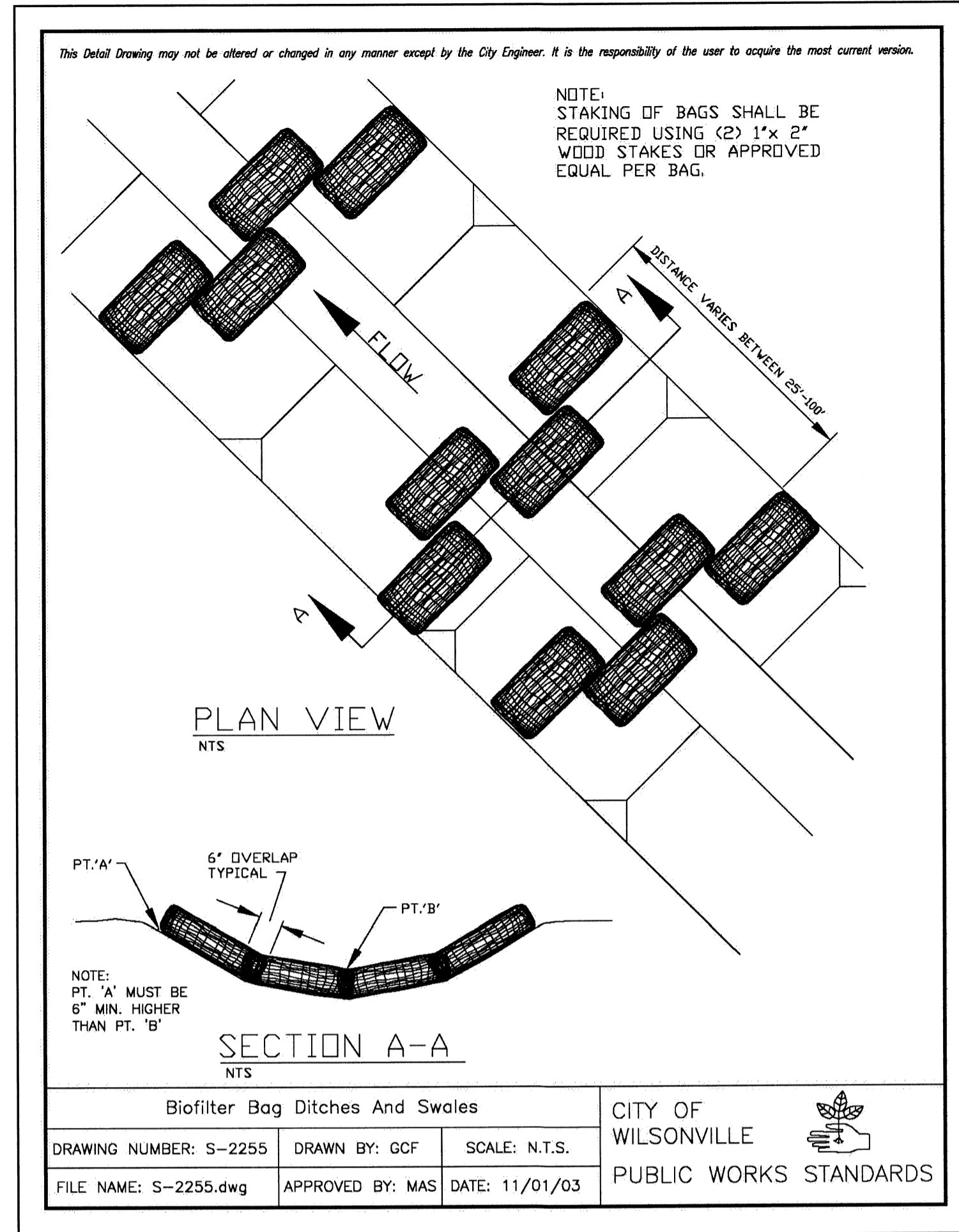
**PARSONS  
BRINCKERHOFF**

RECORD DRAWINGS - PHASE 2 -  
BUILDING AND SITE IMPROVEMENTS  
CITY OF WILSONVILLE  
WILSONVILLE SMART OPERATIONS  
& FLEET FACILITY

CIVIL  
EROSION CONTROL  
PLAN

PROJECT NO.	1046	REVISIONS:	
DATE:	08/01/2013	DESIGNER:	ACQ/1
DRAWN:	CLB	CHECKED:	CJH

PW-201



**PARSONS BRINCKERHOFF**

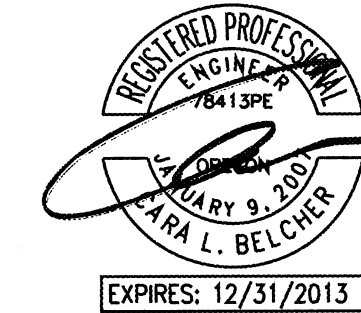
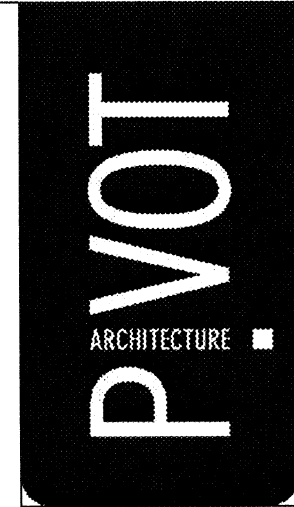
RECORD DRAWINGS - PHASE 2 - BUILDING AND SITE IMPROVEMENTS  
CITY OF WILSONVILLE  
WILSONVILLE SMART OPERATIONS & FLEET FACILITY

CIVIL  
EROSION CONTROL  
DETAILS

PROJECT NO:	1046	REVISIONS:	
DATE:	05/01/2013	ACC#1	
DRAWN:	CLB	CJH	
CHECKED:			

PW-202





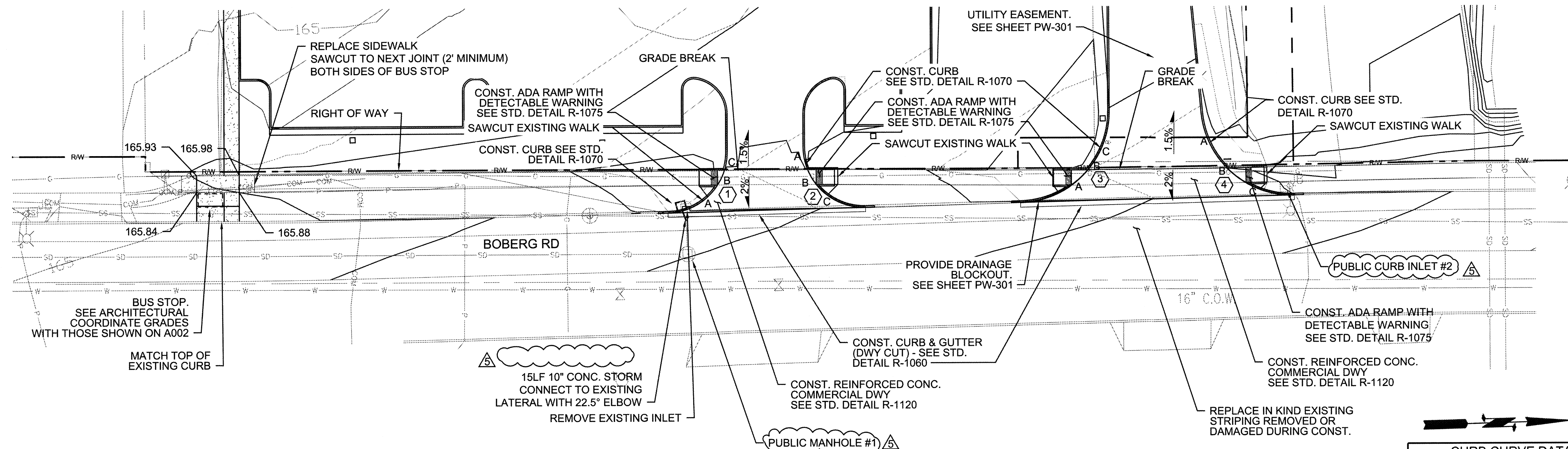
**PARSONS BRINCKERHOFF**

RECORD DRAWINGS - PHASE 2 -  
BUILDING AND SITE IMPROVEMENTS  
CITY OF WILSONVILLE  
WILSONVILLE SMART OPERATIONS  
& FLEET FACILITY

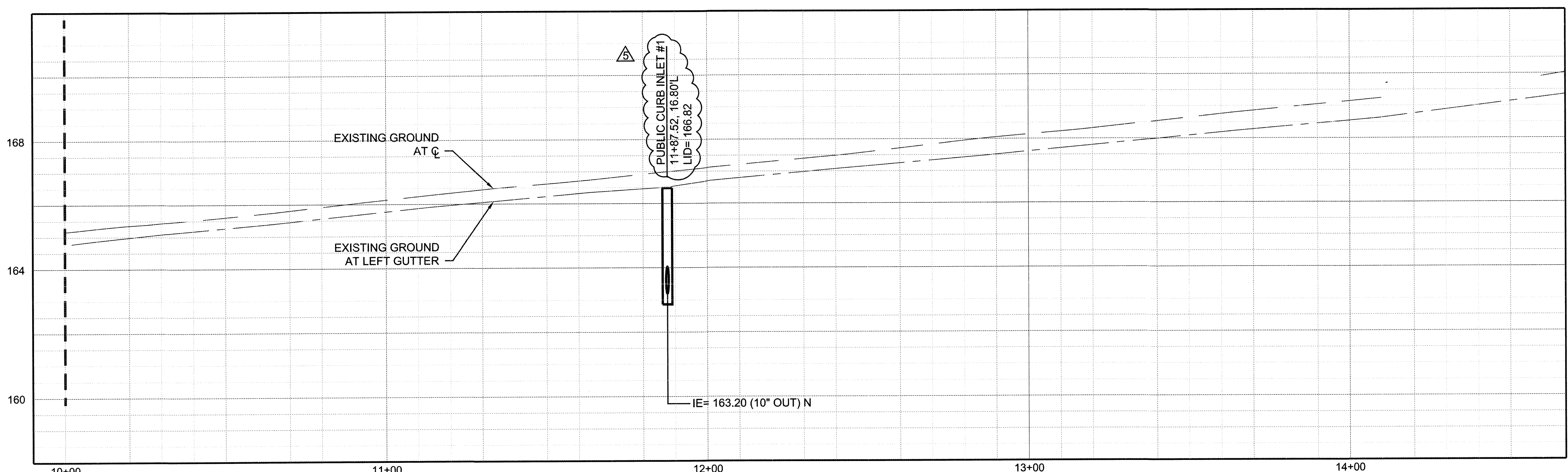
PUBLIC WORKS  
BOBERG RD  
PLAN AND PROFILE

PROJECT NO:	1046	REVISIONS:	
DATE:	05/21/2013	DESIGNER:	ACJ/HT
DRAWN:	CLB	CHECKED:	CLB
CHECKED:	CLB		

PW-300



CURB CURVE DATA				1/4 Δ ELEVATION		
CURVE	LENGTH	RADIUS	DELTA	A	B	C
(1)	30.91	20'	88° 32' 54"	166.65'	166.78'	166.92'
(2)	31.92	20'	91° 27' 06"	167.21'	167.18'	167.16'
(3)	46.40	30'	88° 36' 57"	167.77'	167.96'	167.88'
(4)	45.08	30'	86° 5' 47"	168.25'	168.43'	168.43'



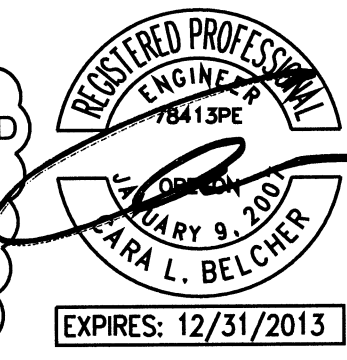
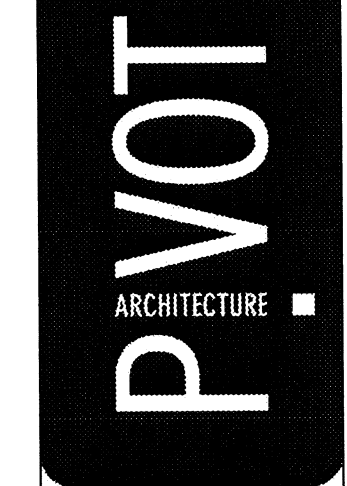
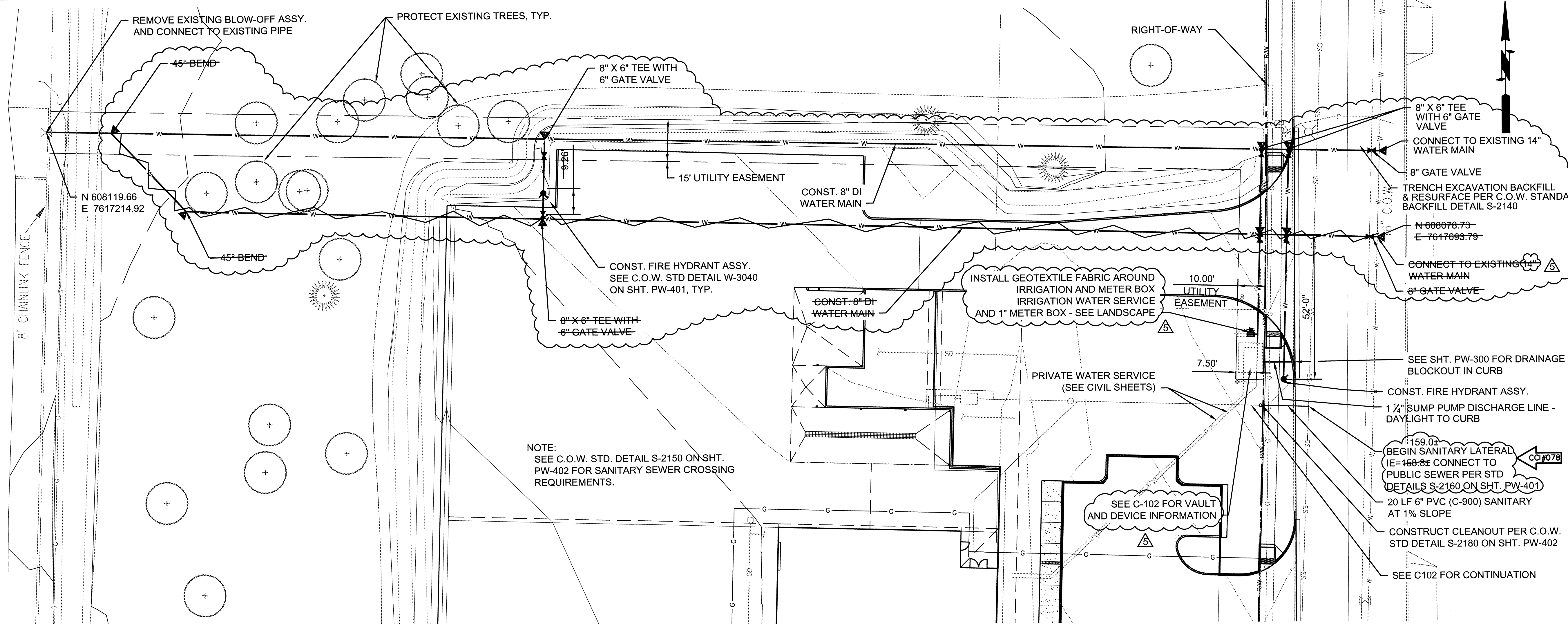
**PROFILE - BOBERG ROAD**  
HORIZONTAL: 1" = 20'  
VERTICAL: 1" = 5'  
1" = 20'-0"

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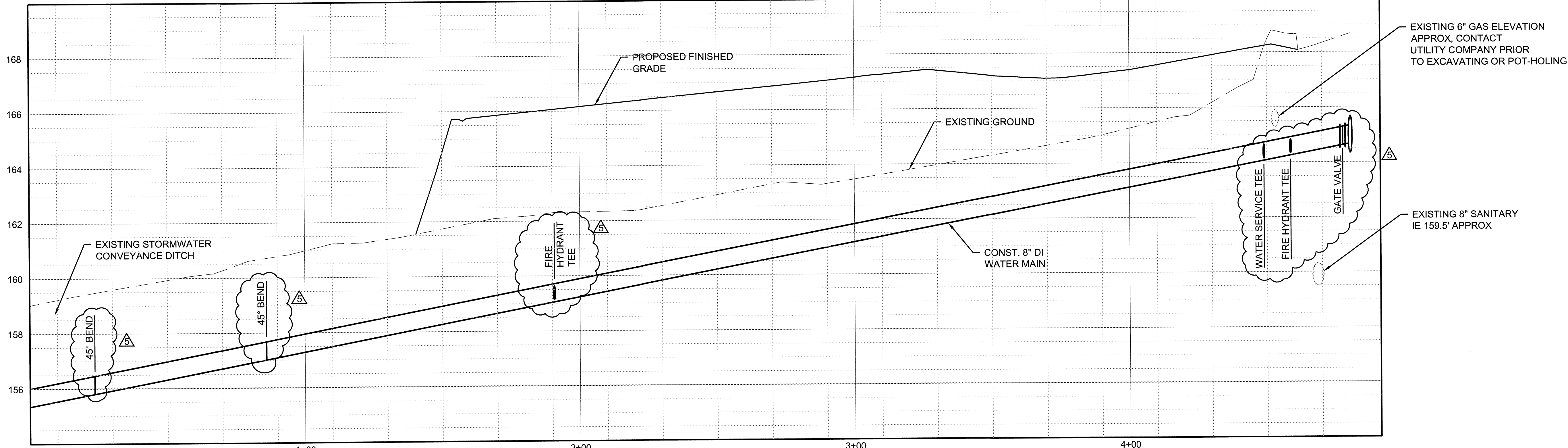
**PARSONS BRINCKERHOFF**

RECORD DRAWINGS - PHASE 2 - BUILDING AND SITE IMPROVEMENTS  
CITY OF WILSONVILLE  
WILSONVILLE SMART OPERATIONS & FLEET FACILITY

PUBLIC WORKS  
PLAN AND PROFILE

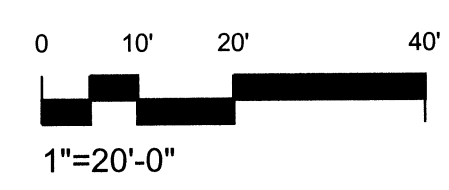
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DATE:	08/01/2013	ADDENDUM #3 01-10-12	
DRAWN:	CLB	CCI #1	
CHECKED:	CJM		

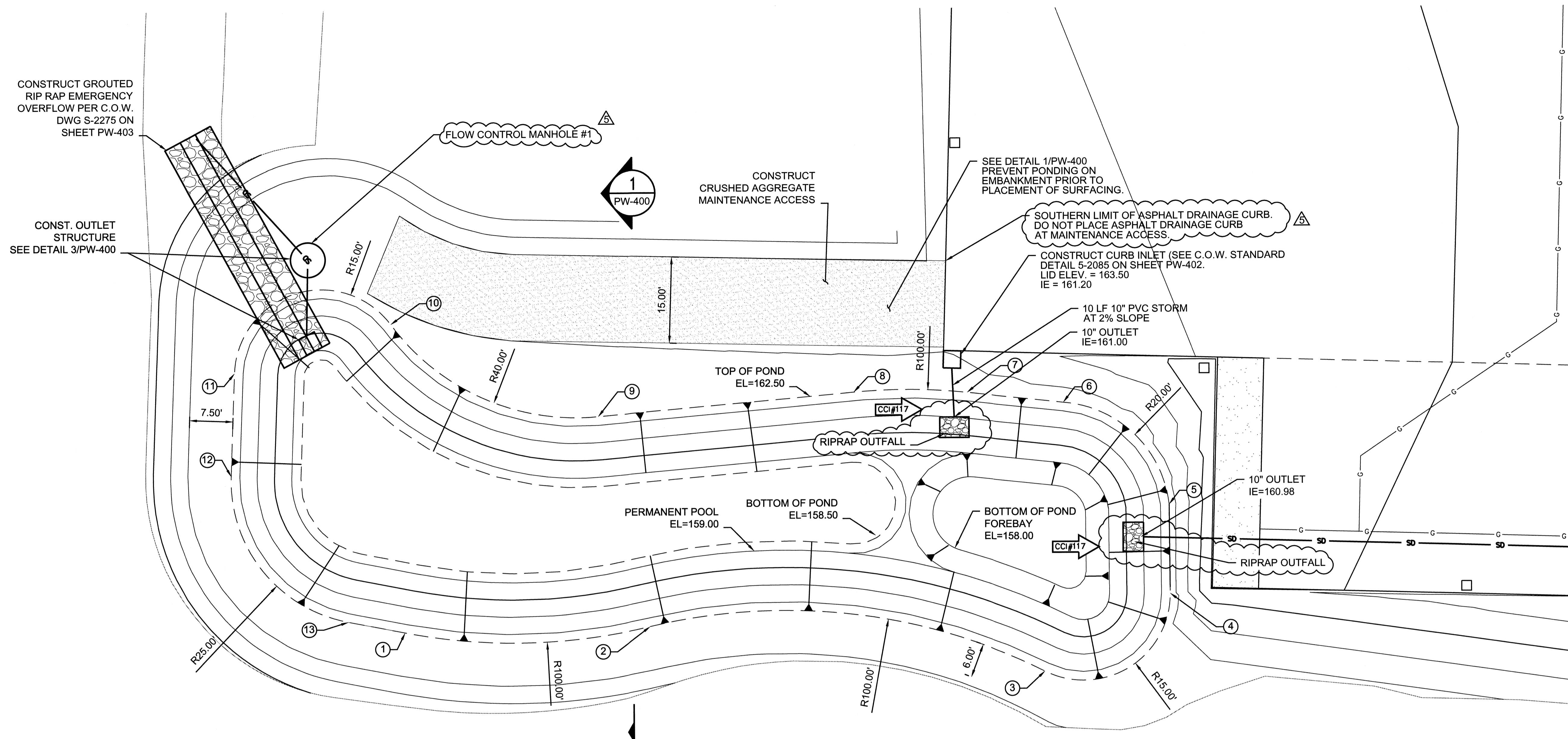
PW-301



PROFILE - WATER MAIN

HORIZONTAL: 1" = 20'  
VERTICAL: 1" = 5'

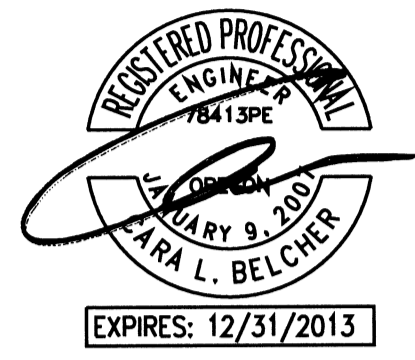
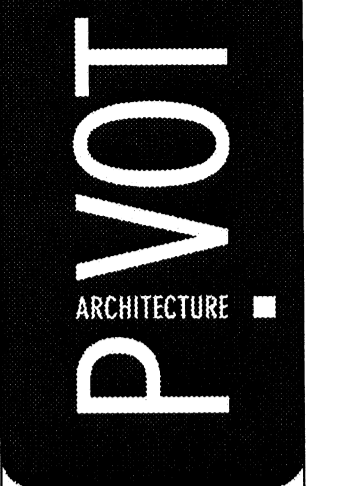




- NOTES:
- REFER TO LANDSCAPE FOR IRRIGATION AND PLANTING INFORMATION.
  - PLACE SEDIMENT MARKER IN POND FOREBAY SEE C.O.W. STD DRAWING S-2260 ON SHEET PW-404.

--- BREAKLINE

POINT	NORTHING	EASTING
1	607767.85	7617257.75
2	607768.71	7617300.22
3	607760.68	7617368.56
4	607774.16	7617390.33
5	607789.63	7617390.23
6	607807.37	7617371.98
7	607809.13	7617355.33
8	607809.27	7617335.69
9	607805.23	7617291.39
10	607821.40	7617255.50
11	607813.07	7617228.41
12	607795.21	7617227.77
13	607769.77	7617247.94



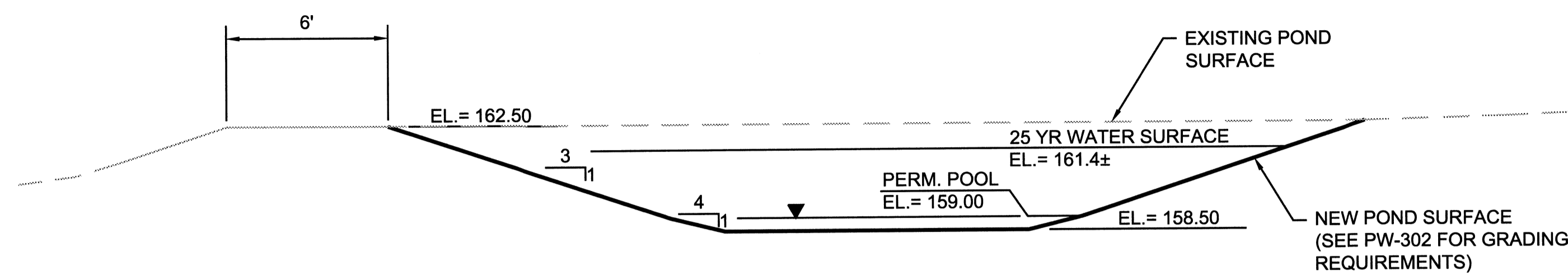
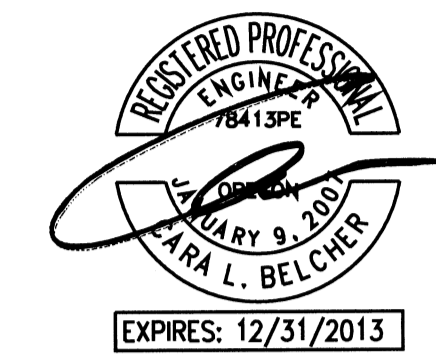
**PARSONS BRINCKERHOFF**

RECORD DRAWINGS - PHASE 2 -  
 BUILDING AND SITE IMPROVEMENTS  
 CITY OF WILSONVILLE  
 WILSONVILLE SMART OPERATIONS  
 & FLEET FACILITY

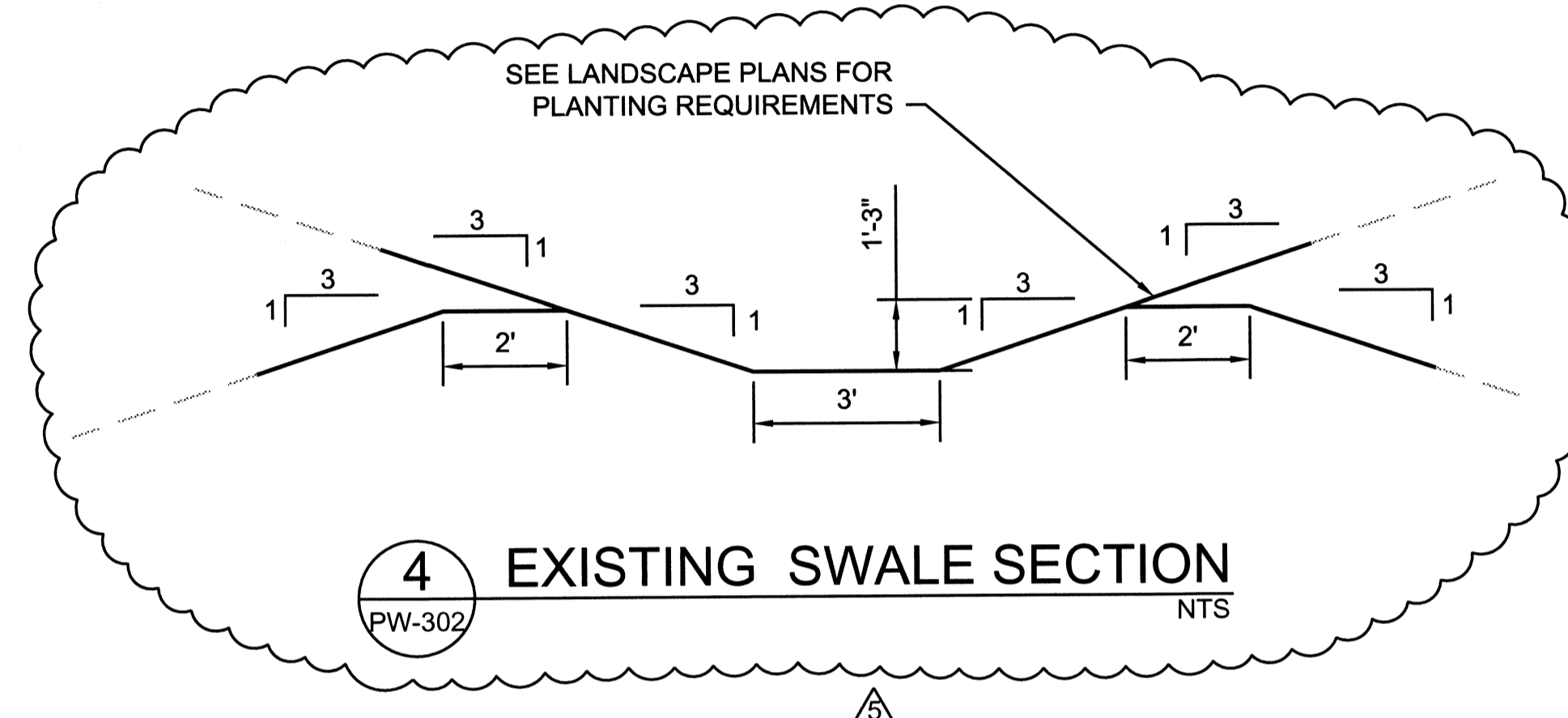
PROJECT NO:	1046	REVISIONS:	
DATE:	05/01/2013	CC#1	
DRAWN:	CJH	CJH	
CHECKED:			

PUBLIC WORKS  
 STORMWATER  
 FACILITY PLAN

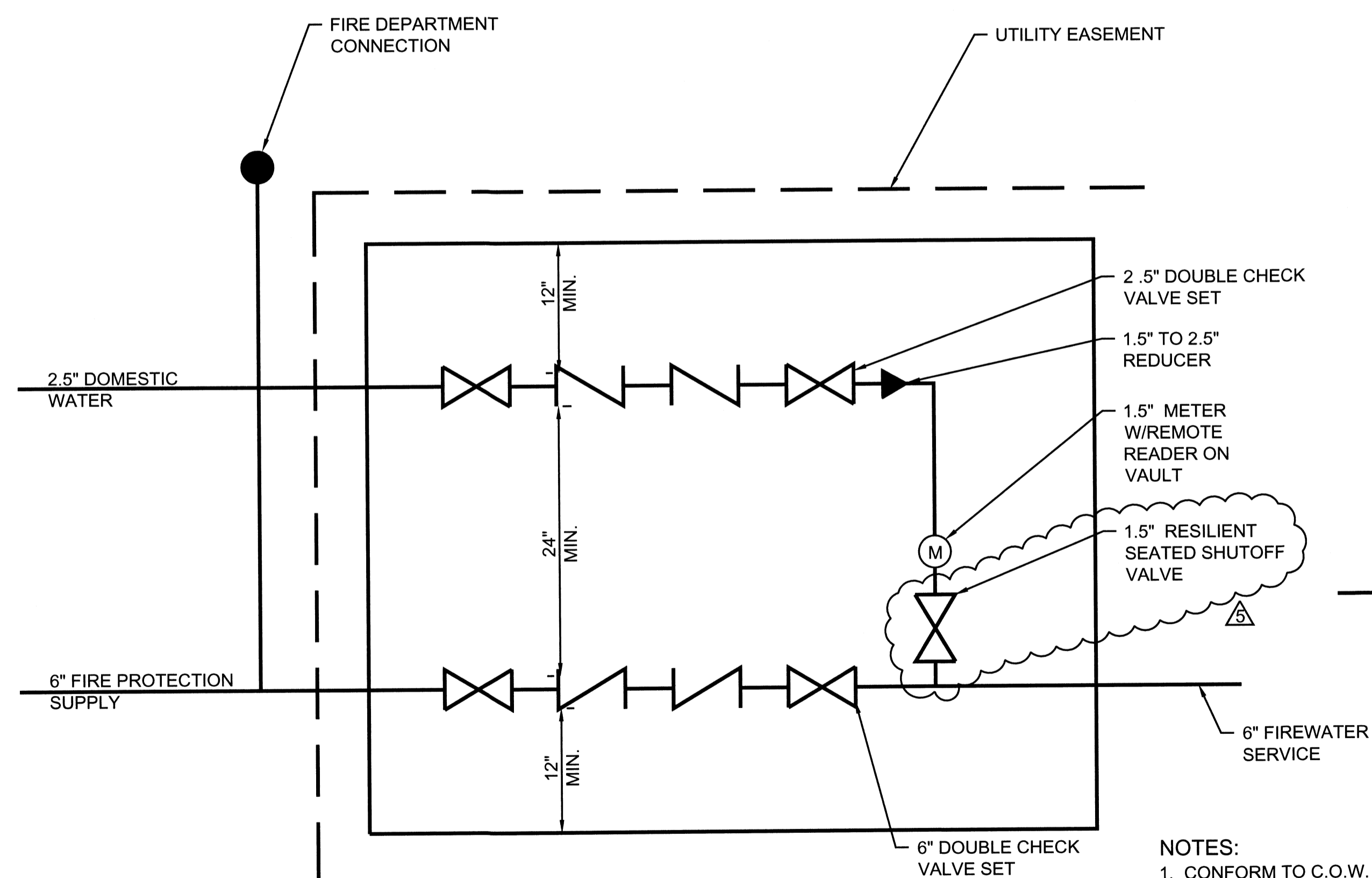
PW-302



**1** STORMWATER POND SECTION  
PW-302 NTS

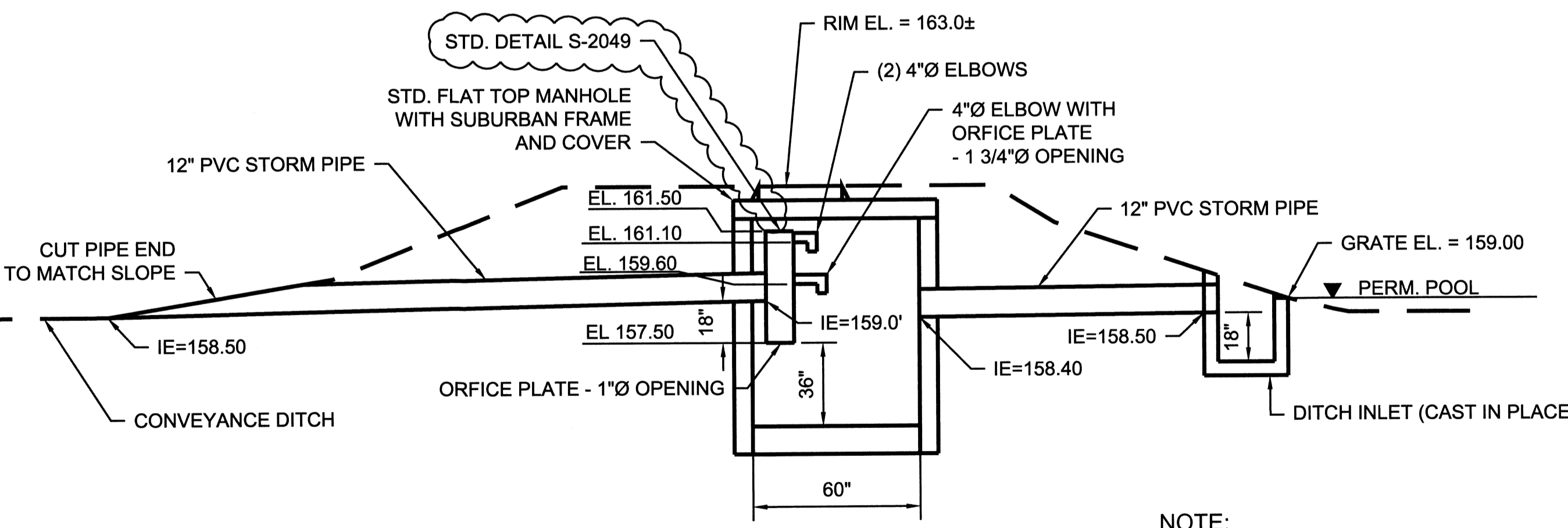


**4** EXISTING SWALE SECTION  
PW-302 NTS



**2** IN GROUND UTILITY VAULT DETAIL  
C-102 NTS

- NOTES:
1. CONFORM TO C.O.W. DOUBLE CHECK VALVE REQUIREMENTS.
  2. PROVIDE LOW VOLTAGE TAMPER SWITCHES ON FIRE BACKFLOW VALVES - COORDINATE W/ ELECTRICAL.
  3. PROVIDE NON-SHRINK GROUT AT VAULT PROTRUSIONS.
  4. 6" MIN INTERNAL VERTICAL DIMENSION.
  5. PROVIDE REQUIRED SUMP PUMPS.



**3** POND OUTLET STRUCTURE  
PW-302 NTS

NOTE:  
SEE C.O.W. STD DETAILS  
S-2049 ON PW-401 FOR  
ADDITIONAL REQUIREMENTS

**PARSONS  
BRINCKERHOFF**

RECORD DRAWINGS - PHASE 2 -  
BUILDING AND SITE IMPROVEMENTS  
CITY OF WILSONVILLE  
WILSONVILLE SMART OPERATIONS  
& FLEET FACILITY

CIVIL  
STORMWATER DETAILS

PROJECT NO.	1048	REVISIONS:	
DATE:	05/01/2013	ACQ #1	
DRAWN:	CLB	C/JH	
CHECKED:			