

GRADING NOTES

- ROUGH GRADING: BRING ALL FINISH GRADES TO APPROXIMATE LEVELS INDICATED. WHERE GRADES ARE NOT OTHERWISE INDICATED, FINISH GRADES ARE TO BE THE SAME AS ADJACENT SIDEWALKS, CURBS, OR THE OBVIOUS GRADE OF ADJACENT STRUCTURE. GRADE TO UNIFORM LEVELS OR SLOPES BETWEEN POINTS WHERE GRADES ARE GIVEN. ROUND OFF SURFACES, AVOID ABRUPT CHANGES IN LEVELS. ROUGH GRADE TO ALLOW FOR DEPTH OF CONCRETE SLABS, WALKS, AND THEIR BASE COURSES. GRADE FOR PAVED DRIVES AND PAVED PARKING AREAS AS INDICATED AND SPECIFIED HEREIN AND PROVIDE FOR SURFACE DRAINAGE AS SHOWN, ALLOWING FOR THICKNESS OF SURFACING MATERIAL.
FINISH GRADING: AT COMPLETION OF JOB AND AFTER BACKFILLING BY OTHER CRAFTS HAS BEEN COMPLETED, REFILL AND COMPACT AREAS WHICH HAVE SETTLED OR ERODED TO BRING TO FINAL GRADES.
GRADING TOLERANCES:
ROUGH GRADE AT PAVED OR LANDSCAPED AREAS: ±0.1 FT.
FINISH GRADE PRIOR TO PLACING FINAL SURFACING: ±0.03 FT.
- EXCAVATION: EXCAVATE FOR SLABS, PAVING, AND OTHER IMPROVEMENTS TO SIZES AND LEVELS SHOWN OR REQUIRED. ALLOW FOR FORM CLEARANCE AND FOR PROPER COMPACTION OF REQUIRED BACKFILLING MATERIAL.
EXCAVATOR(S) MUST COMPLY WITH O.R.S. 757.541 THROUGH 757.571; EXCAVATOR(S) SHALL NOTIFY ALL UTILITY COMPANIES FOR LINE LOCATIONS 72 HOURS (MINIMUM) PRIOR TO START OF WORK. DAMAGE TO UTILITIES SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- EFFECTIVE EROSION PREVENTION AND SEDIMENT CONTROL IS REQUIRED. EROSION CONTROL DEVICES MUST BE INSTALLED AND MAINTAINED MEETING THE CITY AND WES REQUIREMENTS. THE GOVERNING JURISDICTION MAY, AT ANY TIME, ORDER CORRECTIVE ACTION AND STOPPAGE OF WORK TO ACCOMPLISH EFFECTIVE EROSION CONTROL.
- EFFECTIVE DRAINAGE CONTROL IS REQUIRED. DRAINAGE SHALL BE CONTROLLED WITHIN THE WORK SITE AND SHALL BE SO ROUTED THAT ADJACENT PRIVATE PROPERTY, PUBLIC PROPERTY, AND THE RECEIVING SYSTEM ARE NOT ADVERSELY IMPACTED. THE GOVERNING JURISDICTION MAY, AT ANY TIME, ORDER CORRECTIVE ACTION AND STOPPAGE OF WORK TO ACCOMPLISH EFFECTIVE DRAINAGE CONTROL.
- SITE TOPSOIL SHALL BE STOCKPILED DURING CONSTRUCTION AND USED FOR LANDSCAPING.
- THE SURVEY INFORMATION SHOWN AS A BACKGROUND SCREEN ON THIS SHEET IS BASED ON A SURVEY BY NW SURVEYING INC., AND IS SHOWN FOR REFERENCE ONLY. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS WITH HIS OWN RESOURCES PRIOR TO START OF ANY CONSTRUCTION.
- CONTRACTOR TO COORDINATE GRADES AT ENTRANCE WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION.
- 2% MAXIMUM SLOPE AT ALL ADA-COMPLIANT PARKING SPACES AND LOADING ZONES.
- 5% MAX SLOPE (EXCLUDING RAMPS) AT PEDESTRIAN SIDEWALK CONNECTIONS BETWEEN PUBLIC R.O.W. AND BUILDING ENTRANCES.
- WHERE SLOPES ARE STEEPER THAN 3:1, CONTRACTOR SHALL INSTALL JUTE MATTING. SLOPE SHALL BE PREPARED TO ENSURE COMPLETE AND DIRECT CONTACT OF MATTING WITH SOIL. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

LEGEND

[232.80] AC	TOP OF FINISHED ASPHALT
[231.00] TC	TOP OF CURB
[231.00] BOT	BOTTOM OF SWALE OR BASIN
[231.00] CONC	TOP OF FINISHED CONCRETE
[231.00] TC	TOP OF CURB
[231.00] RIM	CATCH BASIN RIM ELEVATION
[231.00] TW	TOP OF WALL
[231.00] BW	BOTTOM OF WALL AT FINISH GRADE,
[231.00] TS	TOP OF STAIRS
[231.00] BS	BOTTOM OF STAIRS
— 199 —	EXISTING 1-FEET CONTOUR
— 200 —	EXISTING 5-FEET CONTOUR
— 199 —	PROPOSED 1-FEET CONTOUR
— 200 —	PROPOSED 5-FEET CONTOUR
— [] —	TREE PROTECTION FENCE
[]	POND LINER EXTENTS

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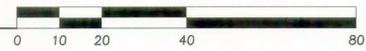
REVISION NO.	REVISIONS THIS SHEET	REVISION DELTA	CLOSING DATE
2			08/07/13
3			09-04-13

SHEET TITLE:
SITE GRADING PLAN

DRAWN BY:
 CHECKED BY:
 SHEET:

APPROVED FOR CONSTRUCTION BY
 CITY OF WEST LINN
 This approval is only for general conformance with the design concept and general compliance with applicable codes and requirements and shall not be construed as relieving the Design Engineer of full responsibility for accuracy and completeness of the drawings. This plan review approval does not prevent the City from requiring further code corrections in the field.
 DATE: 08/13/13 by: *KHS/KS/le*

1 SITE GRADING PLAN
 C2.2 1" = 20'

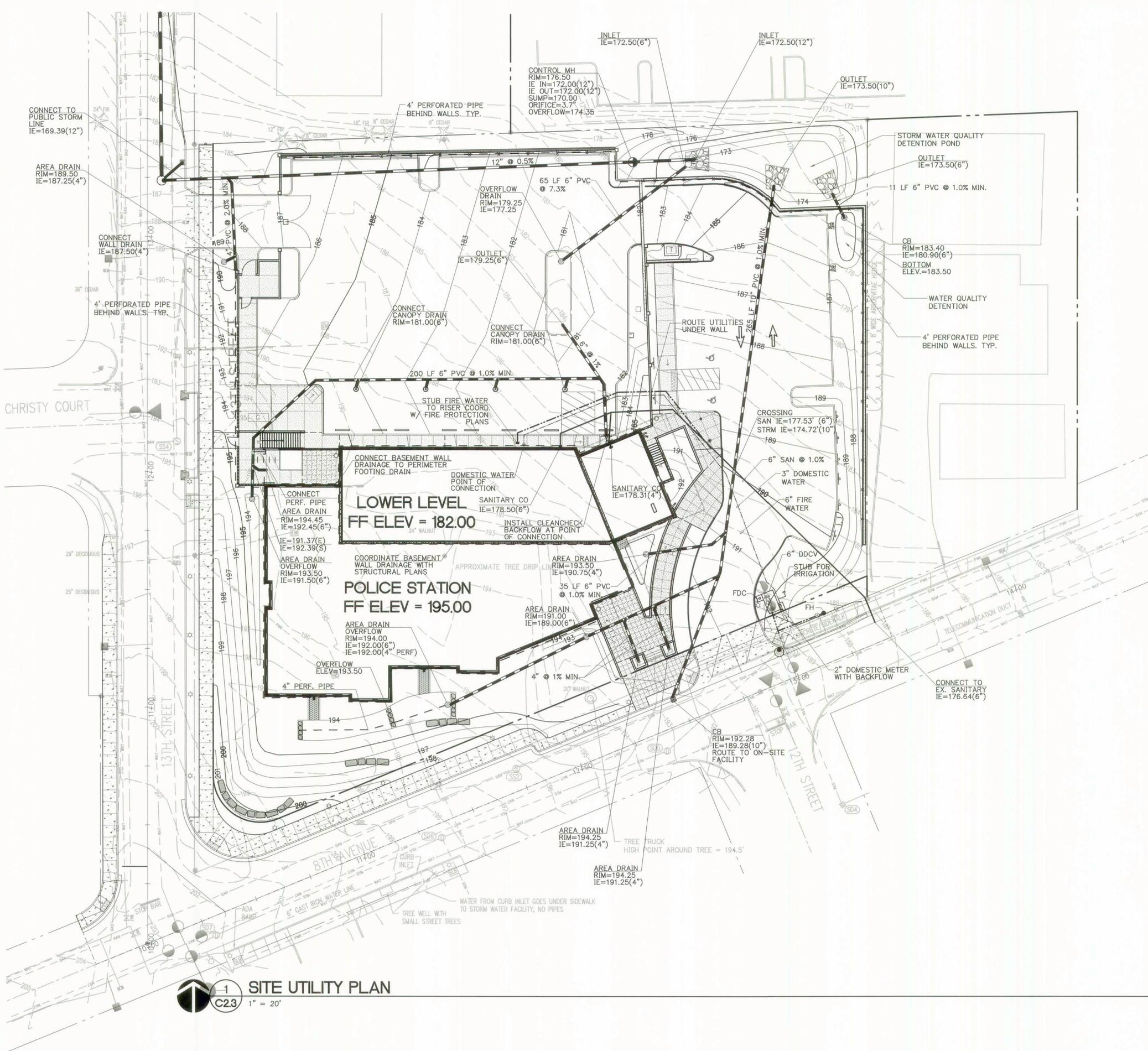


C2.2

JOB NO. **2120180.00**

CCD #: 9/4/13
 BID SET: 7/03/13

THE SURVEY INFORMATION SHOWN AS A BACKGROUND SCREEN ON THIS SHEET IS SHOWN FOR REFERENCE ONLY AND IS BASED ON A SURVEY BY WESTLAKE CONSULTANTS INC. DATE: 03/11/2011



UTILITY NOTES

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF CITY OF WEST LINN, AND THE CURRENT EDITION OF THE UNIFORM PLUMBING CODE AND THE INTERNATIONAL BUILDING CODE. ALL WORK WITHIN THE PUBLIC R.O.W REQUIRES A PUBLIC WORKS PERMIT.
2. THE WORKING DRAWINGS ARE GENERALLY DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW REQUIRED FOR INSTALLATION IN THE SPACE PROVIDED. THEY DO NOT SHOW EVERY DIMENSION, COMPONENT PIECE, SECTION, JOINT OR FITTING REQUIRED TO COMPLETE THE PROJECT. ALL LOCATIONS FOR WORK SHALL BE CHECKED AND COORDINATED WITH EXISTING CONDITIONS IN THE FIELD BEFORE BEGINNING CONSTRUCTION. EXISTING UNDERGROUND UTILITIES LAYING WITHIN THE LIMITS OF EXCAVATION SHALL BE VERIFIED AS TO CONDITION, SIZE AND LOCATION BY UNCOVERING, PROVIDING SUCH IS PERMITTED BY LOCAL PUBLIC AUTHORITIES WITH JURISDICTION, BEFORE BEGINNING CONSTRUCTION. CONTRACTOR TO NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES.
3. PROVIDE CLEANOUTS AS REQUIRED IN THE CURRENT UNIFORM PLUMBING CODE CHAPTER 7, SECTIONS 707 AND 719, AND CHAPTER 11, SECTION 1101.12. NOTE: NOT ALL REQUIRED CLEANOUTS ARE SHOWN ON THE PLANS.
4. ALL STORM PIPING IS SIZED FOR A MANNING'S "N" VALUE = 0.013. ALL STORM PIPING IS DESIGNED USING CONCENTRIC PIPE TO PIPE AND WYE FITTINGS, UNLESS OTHERWISE NOTED.
5. SEE MECHANICAL DRAWINGS FOR UTILITIES LOCATED WITHIN THE BUILDING AND TO 5' OUTSIDE THE BUILDING.
6. ALL DOWNSPOUT LEADERS TO BE 6" AT 2.0% MIN. UNLESS NOTED OTHERWISE.
7. VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES BY POT-HOLING PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF DISCREPANCIES.
8. PROVIDE 2" PVC DRAIN LINE FROM DOMESTIC WATER METER VAULT AND BACKFLOW PREVENTER VAULT TO THE DOUBLE DETECTOR CHECK VALVE (FIRE) VAULT. PROVIDE 1/3 HP SUMP PUMP AT BASE OF FIRE VAULT AND INSTALL 2" PVC DRAIN LINE WITH BACKFLOW VALVE FROM SUMP PUMP TO DAYLIGHT AT NEAREST CURB. FURNISH 3/4" INCH DIAMETER CONDUIT FROM BUILDING ELECTRICAL ROOM TO FIRE VAULT FOR SUMP PUMP ELECTRICAL SERVICE. NOTE: COORDINATE WITH FIRE PROTECTION CONTRACTOR FOR FLOW SENSOR INSTALLATION AND CONDUIT REQUIREMENTS.
9. THE SURVEY INFORMATION SHOWN AS A BACKGROUND SCREEN ON THIS SHEET IS BASED ON A SURVEY PREPARED BY NORTHWEST SURVEY.
10. CONTRACTOR TO PROVIDE POWER TO IRRIGATION CONTROLLER. SEE SPECIFICATIONS AND LANDSCAPE PLANS.
11. SEE BUILDING PLUMBING DRAWINGS FOR PIPING WITHIN THE BUILDING AND UP TO 5' OUTSIDE THE BUILDING, INCLUDING ANY FOUNDATION DRAINAGE PIPING.
12. CONTRACTOR TO MAINTAIN MINIMUM 3 FT OF COVER OVER ALL WATER LINE.
13. CONTRACTOR TO COORDINATE GRADES WITH PLUMBING PLANS PRIOR TO CONSTRUCTION.
14. ALL PRIVATE STORM PIPING W/LESS THAN 2' OF COVER SHALL BE PVC-2900 OR CLASS 50 DUCTILE IRON

LEGEND

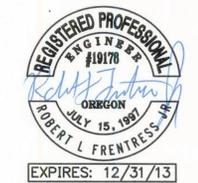
- 199 — EXISTING 1-FT CONTOUR
- 200 — EXISTING 5-FT CONTOUR
- 199 — PROPOSED 1-FT CONTOUR
- 200 — PROPOSED 5-FT CONTOUR
- — STORM PIPE
- — STORM PERFORATED PIPE
- CATCH BASIN WITH INLET PROTECTION
- FIRE HYDRANT
- WATER METER
- DDCV
- FDC

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REVISIONS:

REVISION NO.	REVISIONS THIS SHEET	REVISION DATE	DELTA CLOSING DATE
2		08/07/13	
3		09-04-13	

SHEET TITLE:
SITE UTILITY PLAN

DRAWN BY:
 CHECKED BY:
 SHEET:

C2.3

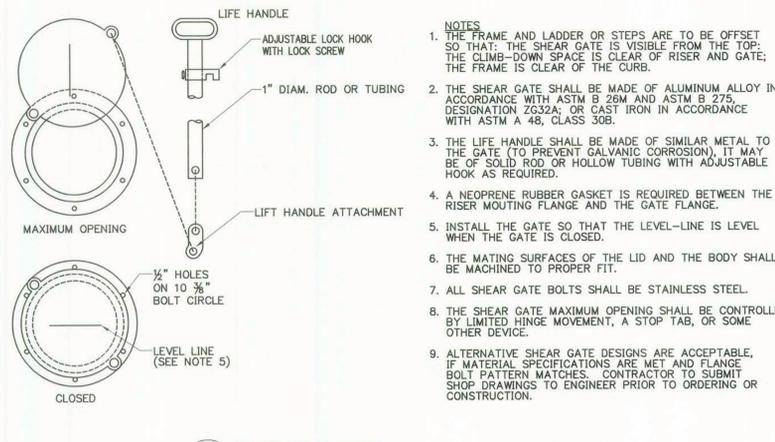
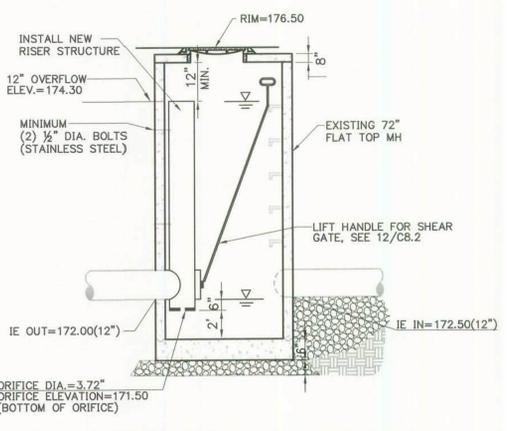
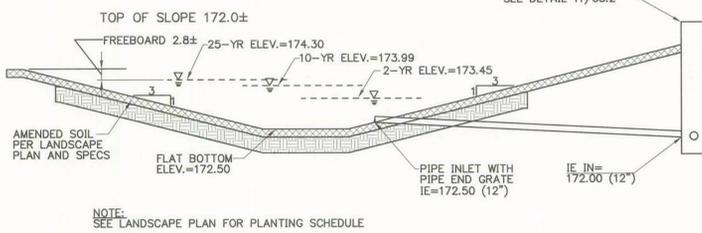
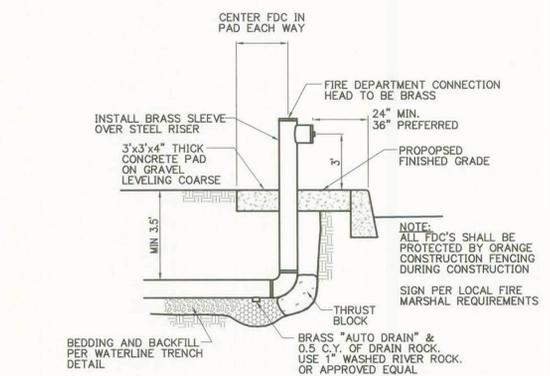
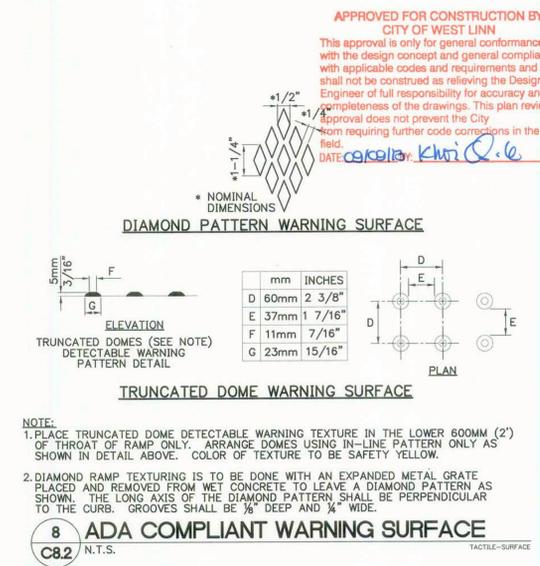
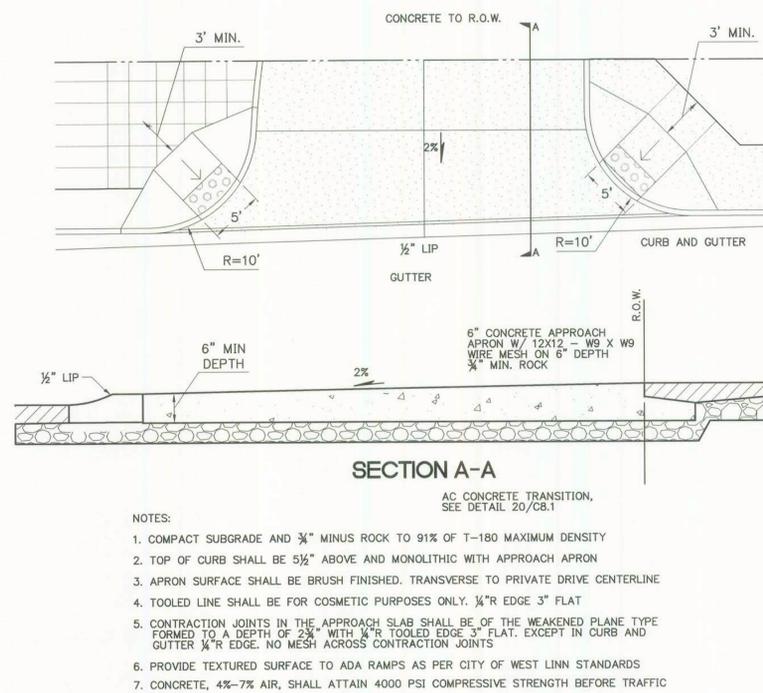
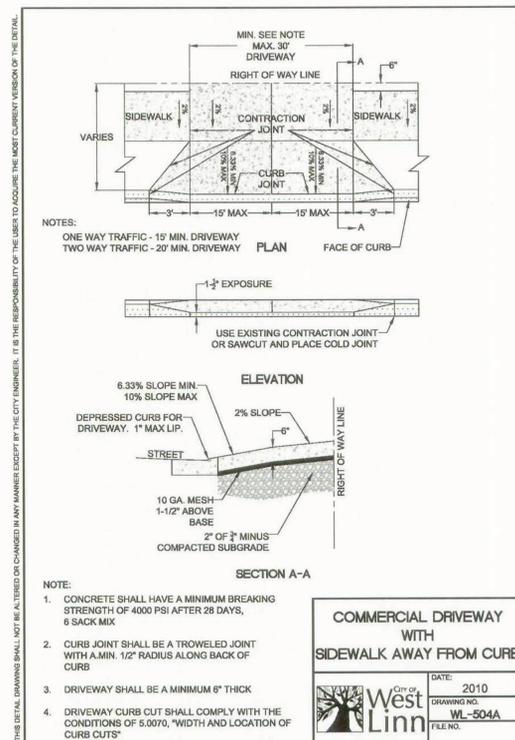
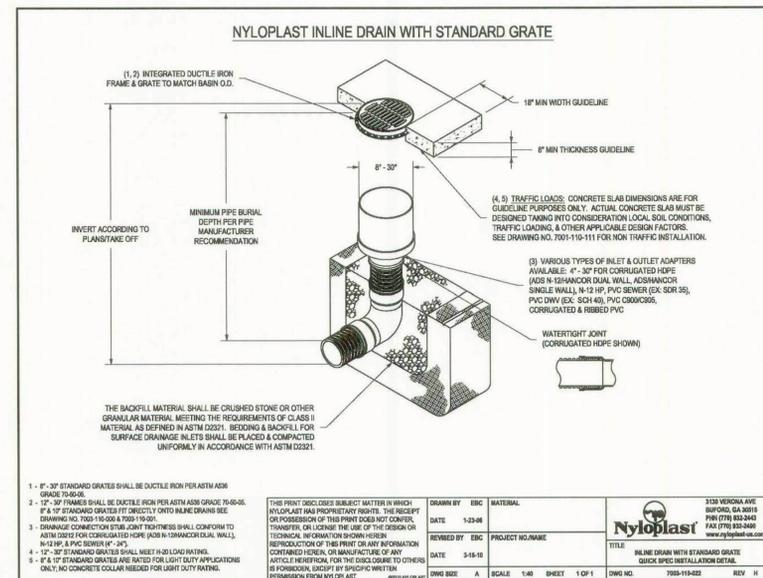
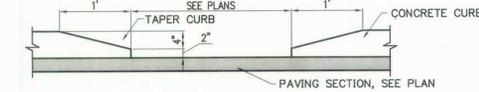
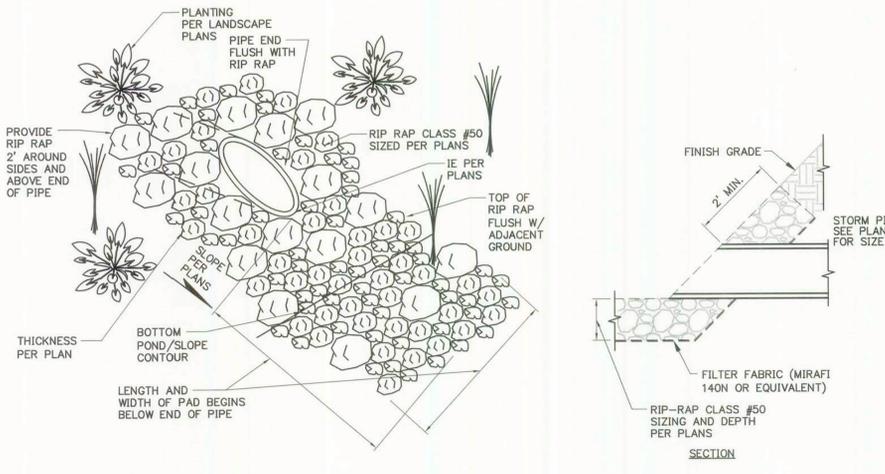
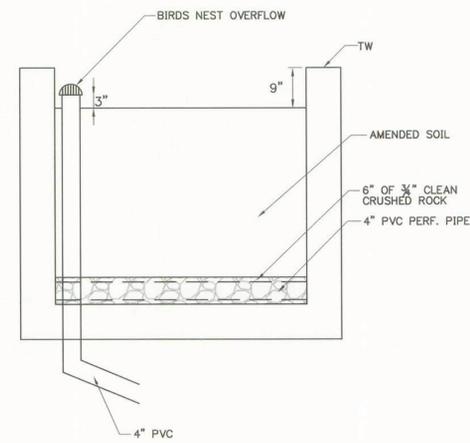
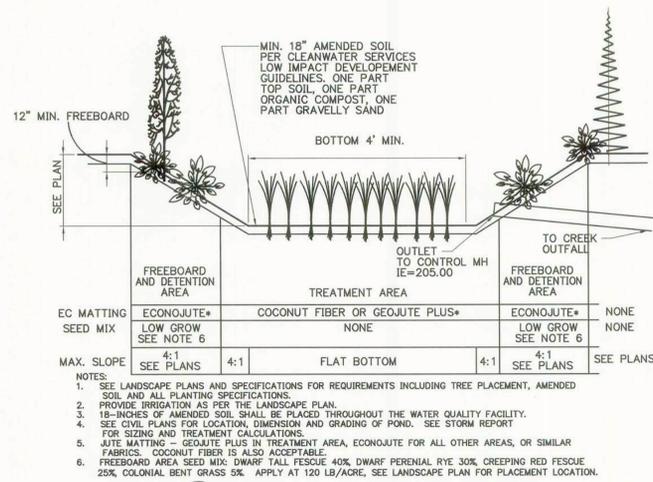
JOB NO. **2120180.00**

1 SITE UTILITY PLAN
 C2.3 1" = 20'



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 DATE: 08/08/13 KATIE Q...

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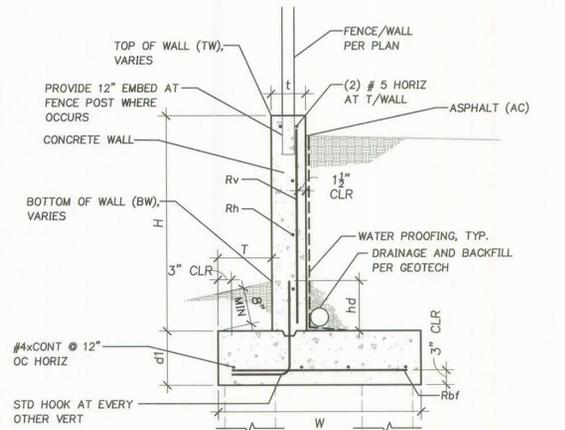
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2	08/07/13	
3	09-04-13	

SHEET TITLE:
CIVIL DETAILS

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SHEET:

JOB NO. 2120180.00

CCD #1: 9/4/13
BID SET: 7/03/13

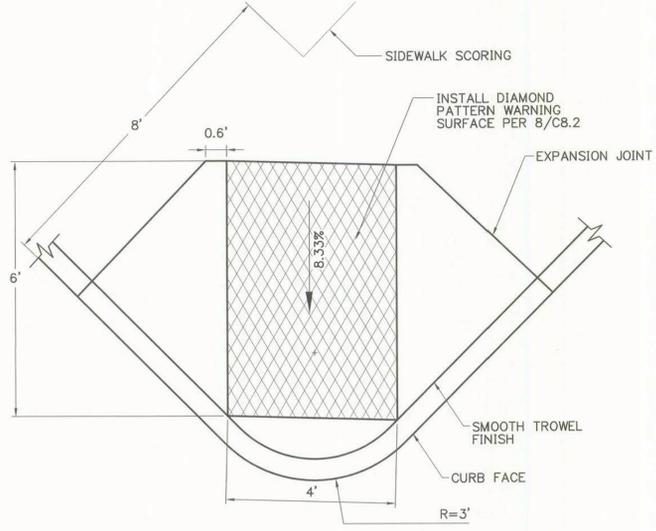


NOTE:
CONTRACTOR TO PROVIDE SACK
OR BROOM FINISH ON THE FACE
OF WALL UNLESS NOTED OTHERWISE.
SEE ARCHITECTURAL ELEVATIONS
FOR BOARD FORM LOCATIONS.

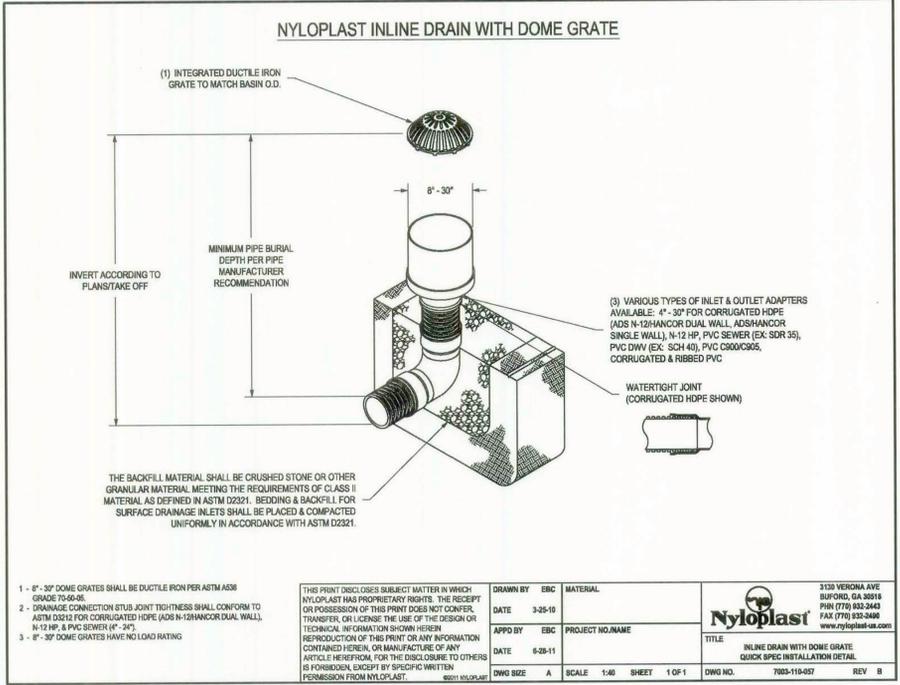
MAX H	t	W	T	d1	Rv	Rh	Rbf
4'-0"	8"	2'-3"	6"	12"	#5 @ 16" O.C.	#5 @ 16" O.C.	#4 @ 12" O.C.
6'-0"	8"	4'-0"	6"	12"	#5 @ 12" O.C.	#5 @ 16" O.C.	#4 @ 12" O.C.
8'-0"	8"	5'-3"	6"	18"	#5 @ 12" O.C.	#5 @ 12" O.C.	#4 @ 12" O.C.
10'-0"	8"	7'-0"	6"	18"	#5 @ 12" O.C.	#5 @ 8" O.C.	#4 @ 12" O.C.
12'-0"	8"	8'-6"	6"	22"	#5 @ 12" O.C.	#5 @ 8" O.C.	#4 @ 12" O.C.

1 RETAINING WALL
C8.4

3/4" = 1'-0"
061RS.0



2 UTILITY CURB RAMP
C8.4 N.T.S.



1 - 8'-30\"/>	<p>THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN. REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN OR MANUFACTURE OF ANY ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST.</p>	<p>DRAWN BY: EBC DATE: 3-25-10 APPROVED BY: EBC DATE: 6-28-11 DWG SIZE: A SCALE: 1:40 SHEET: 1 OF 1</p>	<p>MATERIAL: PROJECT NO./NAME: TITLE: DWG NO.: 7003-110-057 REV: B</p>	<p>3133 VERNONA AVE BURLINGTON, GA 30616 PH: (770) 832-2443 FAX: (770) 832-0408 www.nyloplast-us.com</p>
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3 AREA DRAIN WITH DOME GRATE
C8.4 N.T.S.

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EXPIRES: 12/31/13

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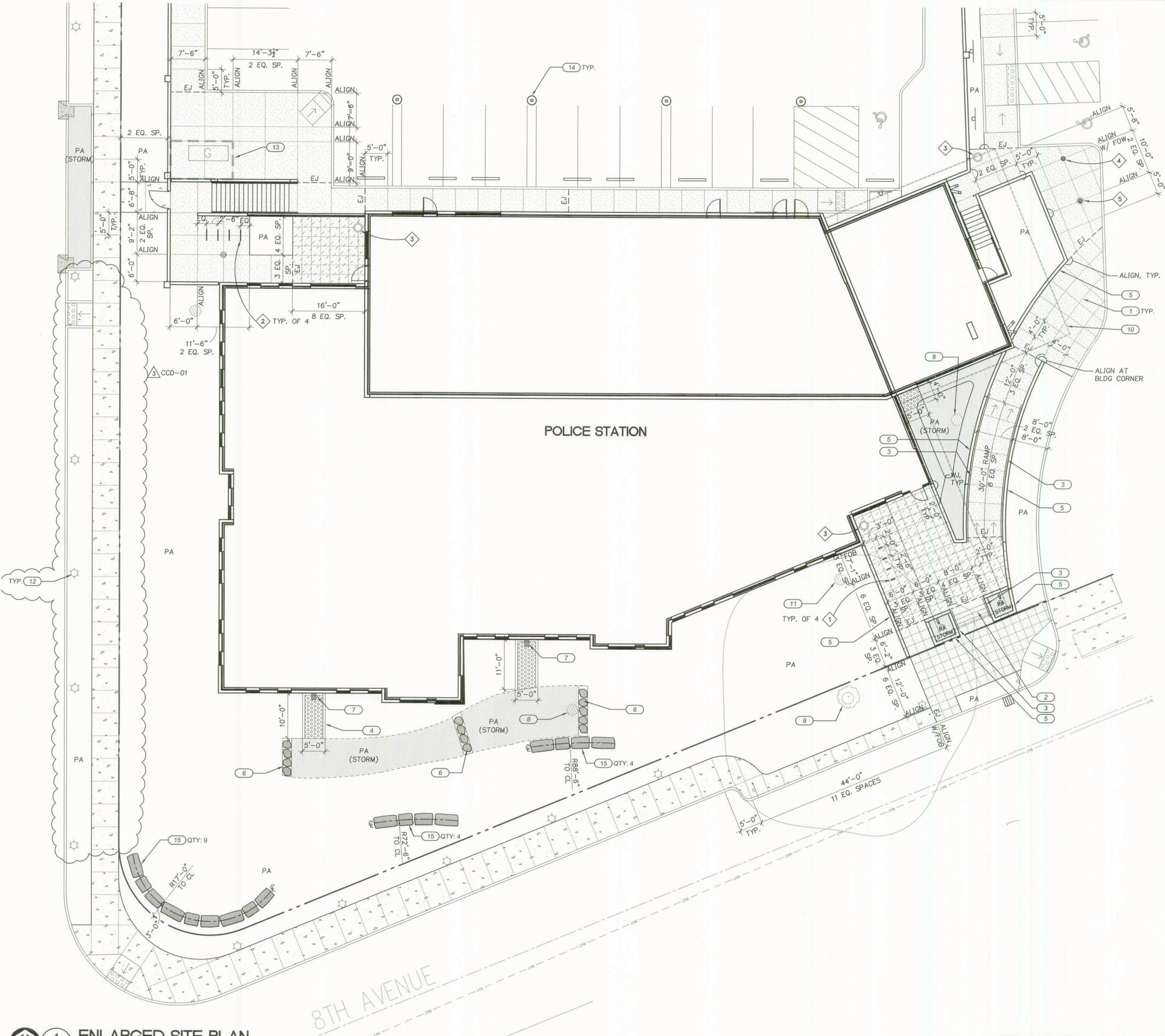
SHEET TITLE:

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SHEET:

C8.4

JOB NO. 2120180.00

CCD #1: 9/4/13
BID SET: 7/03/13



MATERIALS SCHEDULE

SYMBOL	NOTE	REFERENCE
[Symbol]	CONCRETE PAVING TYPE 1, STANDARD	1/L8.2 SPECS.
[Symbol]	CONCRETE PAVING TYPE 2, SAND FINISH	1/L8.2 SPECS.
[Symbol]	BASALT SPLASH BLOCK	7/L8.2 SPECS.
[Symbol]	2-3" COBBLE, 4" DEPTH	SPECS.

ABBREVIATION LEGEND

ITEM	NOTE	REFERENCE
PA	PLANTING AREA	PLANTING
EJ	EXPANSION JOINT	2/L8.2
FOB	FACE OF BUILDING	N/A
FW	FACE OF WALL	N/A
WJ	WALL JOINT, ALIGN WITH ADJACENT CONTRACTION JOINT OR AS SHOWN	ARCH.

KEY NOTES

ITEM	NOTE	REFERENCE
1	CONTRACTION JOINT	4/L8.2
2	CONCRETE STAIR	ARCH.
3	HANDRAIL	ARCH.
4	CONCRETE STORMWATER CURB	5/L8.2
5	CONCRETE RETAINING WALL	ARCH.
6	STORMWATER BOULDER	14/L8.2 SPECS.
7	SCUPPER	ARCH.
8	OVERFLOW	CIVIL
9	EXISTING 31" WALNUT TREE TO REMAIN. PROTECT IN PLACE.	CIVIL SPECS.
10	BUILDING CANOPY	ARCH.
11	AREA DRAIN	CIVIL
12	STREET LIGHT FIXTURE	ELECTRICAL
13	THICKENED CONCRETE PAVING AT GENERATOR	CIVIL
14	COLUMN	ARCH.
15	LARGE BASALT BOULDER	12/L8.2 SPECS.

SITE FURNISHING SCHEDULE

ITEM	NOTE	REFERENCE
1	BIKE RACK, TYPE 1	10/L8.2 SPECS.
2	BIKE RACK, TYPE 2	11/L8.2 SPECS.
3	TRASH RECEPTACLE	SPECS.
4	FLAGPOLE, 40' HT.	SPECS.
5	FLAGPOLE, 50' HT.	SPECS.

- GENERAL NOTES**
- ALL NEW PLANTING AREAS TO HAVE AUTOMATIC DESIGN/BUILD IRRIGATION SYSTEM.
 - PROVIDE EXPANSION JOINTS WHERE CONCRETE PAVING MEETS ANY FIXED STRUCTURE SUCH AS A BUILDING, LIGHT POST, DRAIN, ETC.
 - NOT ALL EXPANSION JOINTS HAVE BEEN SHOWN ON PLAN FOR GRAPHIC CLARITY. PLEASE REFER TO THE DETAILS FOR OTHER OCCURRENCES.
 - SEE CIVIL FOR EXPANSION JOINT LAYOUT WITHIN THE PUBLIC RIGHT-OF-WAY.

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REVISIONS:

NO.	REVISIONS	REVISION CLOSING DATE	DELTA
2		08/07/13	
3	X	09-04-13	

SHEET TITLE:
ENLARGED SITE PLAN

DRAWN BY:
 CHECKED BY:
 SHEET:

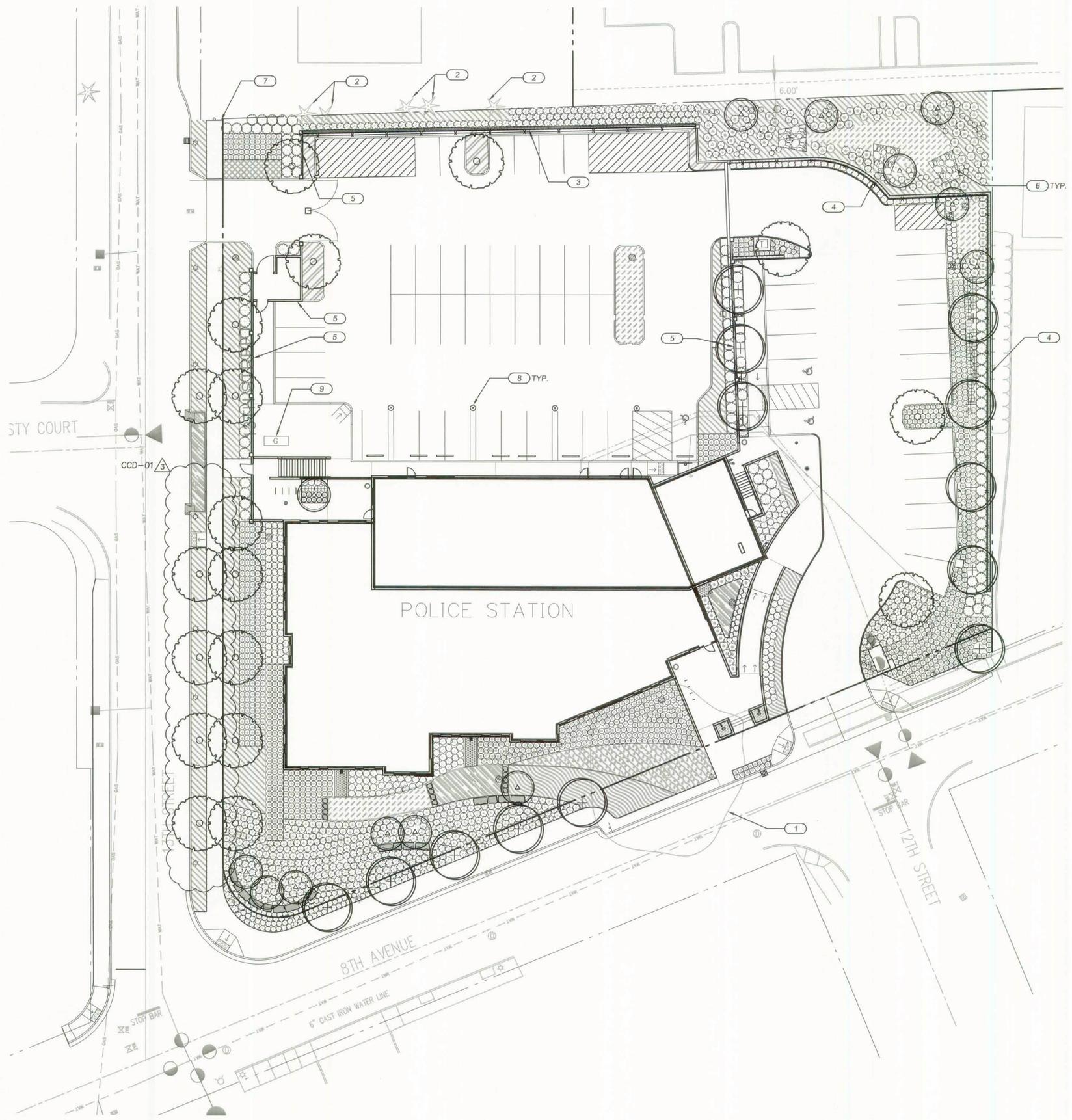
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 DATE: 09/03/13 KHS & W

L2.1

1 ENLARGED SITE PLAN
 L2.1 1" = 10'

THE SURVEY INFORMATION SHOWN AS A BACKGROUND SCREEN ON THIS SHEET IS SHOWN FOR REFERENCE ONLY AND IS BASED ON A SURVEY BY WESTLAKE CONSULTANTS INC. DATE: 03/11/2011





PLANT SCHEDULE

TREES	BOTANICAL NAME / COMMON NAME	SIZE
△	ACER CIRCINATUM / VINE MAPLE	5'-6" HT./B&B
○	FRAXINUS OXYCARPA 'RAYWOOD' TM / RAYWOOD ASH	2.5" CAL.
+	QUERCUS PALUSTRIS 'GREEN PILLAR' / GREEN PILLAR OAK	2.5" CAL.
SHRUBS	BOTANICAL NAME / COMMON NAME	CONT
⊕	BERBERIS THUNBERGII 'ATROPURPUREA NANA' / DWARF REDLEAF JAPANESE BARBERRY	2 GAL@ 2' OC
⊖	CORNUS SERICEA 'KELSEYI' / KELSEYI DOGWOOD	2 GAL@ 2' OC
⊙	DESCHAMPSIA CESPITOSA / TUFTED HAIR GRASS	1 GAL@ 2' OC
⊖	FESTUCA MAIREI / ATLAS FESCUE	1 GAL@ 2' OC
⊖	GAULTHERIA SHALLON / SALAL	2 GAL@ 2.50' OC
⊖	MAHONIA AQUIFOLIUM 'COMPACTA' / COMPACT OREGON GRAPE	2 GAL@ 2.50' OC
⊖	MYRICA CALIFORNICA / PACIFIC WAX MYRTLE	5 GAL@ 4' OC
⊖	POLYSTICHUM MUNITUM / WESTERN SWORD FERN	1 GAL@ 2' OC
⊖	RIBES SANGUINEUM / RED FLOWERING CURRANT	3 GAL@ 3' OC
⊖	SALIX PURPUREA 'NANA' / DWARF ARCTIC WILLOW	3 GAL@ 3' OC
⊕	SYMPHORICARPOS MOLLIS / CREEPING SNOWBERRY	2 GAL@ 2.50' OC
⊖	VACCINIUM OVATUM / EVERGREEN HUCKLEBERRY	2 GAL@ 2.50' OC
GROUND COVERS	BOTANICAL NAME / COMMON NAME	CONT
▨	ARCTOSTAPHYLOS UVA-URSI / KINNIKINNICK	1 GAL@ 18" OC
▨	BARK MULCH	SEE SPECS.
▨	CAREX TESTACEA 'PRAIRIE FIRE' / PRAIRIE FIRE SEDGE	1 GAL@ 12" OC
▨	FESTUCA GLAUCA 'ELIJAH BLUE' / BLUE FESCUE	1 GAL@ 18" OC
▨	FESTUCA IDAHOENSIS / IDAHO FESCUE	1 GAL@ 18" OC
▨	FRAGARIA CHILOENSIS / BEACH STRAWBERRY	1 GAL@ 18" OC
▨	JUNCUS PATENS / CALIFORNIA GRAY RUSH	1 GAL@ 12" OC

KEY NOTES

ITEM	NOTE	REFERENCE
1	EXISTING 31" WALNUT TREE TO REMAIN. SEE TREE PROTECTION/REMOVAL PLAN FOR TREE PROTECTION MEASURES.	CIVIL
2	EXISTING TREES TO REMAIN	CIVIL
3	CONCRETE SITE RETAINING WALL W/ 6' COMPOSITE SLAT FENCE	CIVIL
4	MODULAR BLOCK W/ BLACK VINYL-COATED 4' CHAIN LINK FENCE	CIVIL
5	CMU SITE WALL W/ BRICK ACCENT	CIVIL
6	STORM RIP RAP	CIVIL
7	CONTRACTOR TO BLEND AND REPAIR GROUND AT TRANSITION TO EXISTING LOT	CIVIL
8	COLUMN	
9	GENERATOR	

APPROVED FOR CONSTRUCTION BY CITY OF WEST LINN
 This approval is only for general compliance with the design concept and general compliance with applicable codes and requirements and shall not be construed as relieving the Design Engineer of full responsibility for accuracy and completeness of the drawings. This plan review approval does not prevent the City from requiring further code corrections in the field.
 DATE: 07/03/13 BY: *Koi C. Le*

GENERAL NOTES

- ALL NEW PLANTING AREAS TO HAVE AN AUTOMATIC DESIGN/BUILD IRRIGATION SYSTEM.
- PROVIDE JUTE NETTING ON ALL SLOPES 3:1 OR GREATER.
- ALL AREAS DISTURBED BY CONSTRUCTION THAT ARE NOT SHOWN TO RECEIVE PROPOSED PLANTINGS SHALL BE RESTORED TO EXISTING OR BETTER CONDITION.
- NO PLANTING WITHIN 3 FEET OF TRUNK OF EXISTING 31" WALNUT TREE.

GROUP MACKENZIE
 Architecture
 Interior Design
 Land Use Planning
 Civil Engineering
 Structural Engineering
 Transportation Planning
 Landscape Architecture
 Portland OR Vancouver WA Seattle WA
 503.224.9560 360.685.7879 206.745.9983

Client
CITY OF WEST LINN
 22500 SALAMO ROAD
 WEST LINN, OR 97068



Project
WEST LINN POLICE DEPARTMENT
 1800 8TH AVENUE
 WEST LINN, OR 97068

REGISTERED
 681
Steven P. Tuttle
 Steven P. Tuttle
 OREGON
 11/14/2008
 LANDSCAPE ARCHITECT

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REVISIONS:

REVISION	REVISIONS THIS SHEET	REVISION DELTA	CLOSING DATE
2		X	08/07/13
3		X	09-04-13

SHEET TITLE:
LANDSCAPE PLANTING PLAN

DRAWN BY: TMK, TEB
 CHECKED BY: RML
 SHEET:

L41

JOB NO. **2120180.00**

1 LANDSCAPE PLANTING PLAN
 L41 1" = 20'



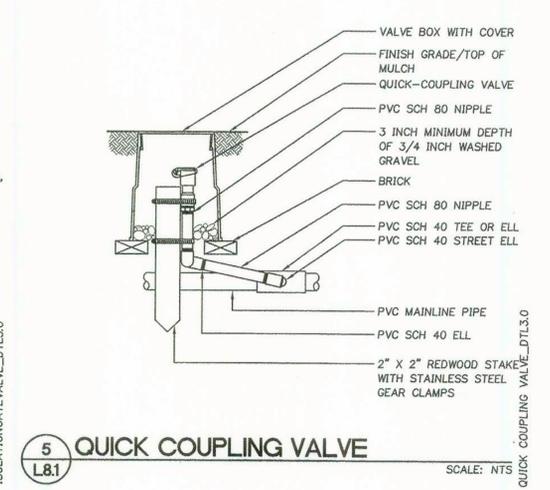
THE SURVEY INFORMATION SHOWN AS A BACKGROUND SCREEN ON THIS SHEET IS SHOWN FOR REFERENCE ONLY AND IS BASED ON A SURVEY BY WESTLAKE CONSULTANTS INC. DATE: 03/11/2011

CCD #: 9/4/13
 BID SET: 7/03/13

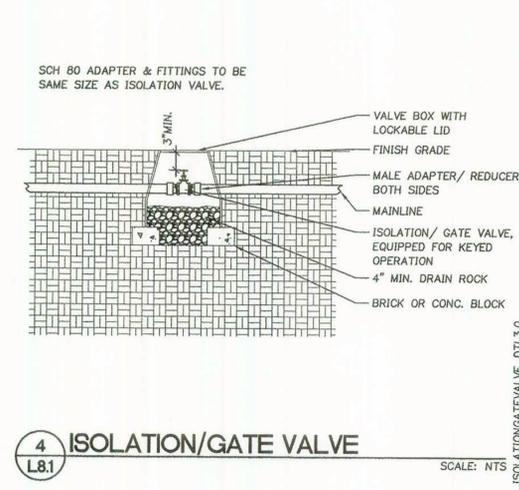


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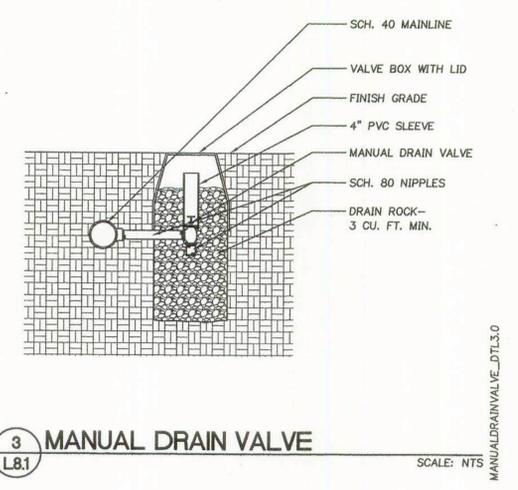
REVISION	DATE	REVISIONS THIS SHEET	REVISION DELTA	REVISION CLOSING DATE



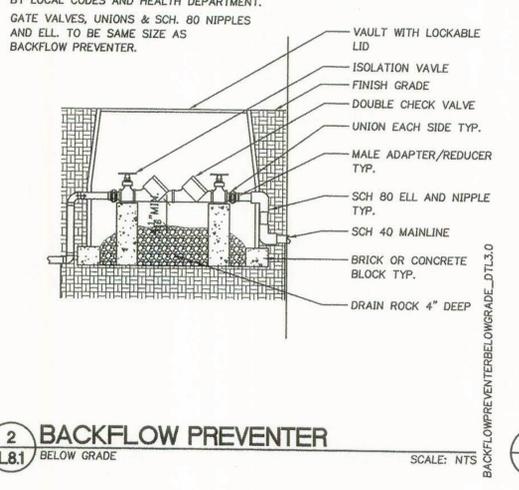
5 QUICK COUPLING VALVE
 L8.1 SCALE: NTS



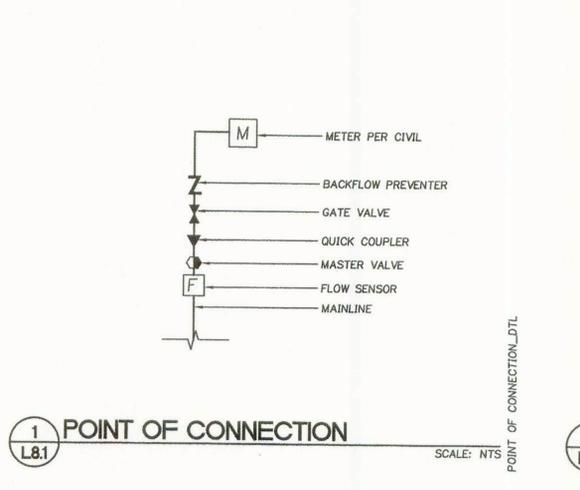
4 ISOLATION/GATE VALVE
 L8.1 SCALE: NTS



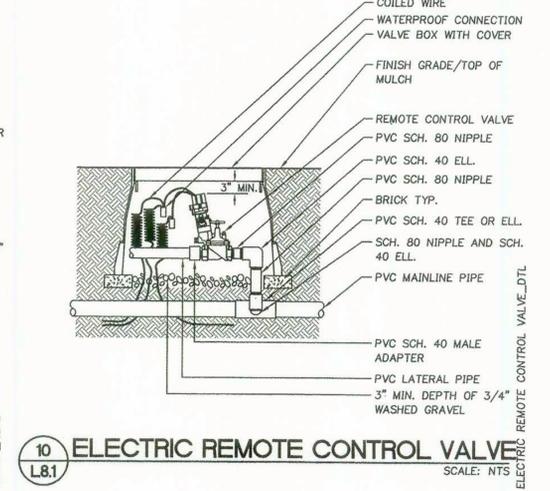
3 MANUAL DRAIN VALVE
 L8.1 SCALE: NTS



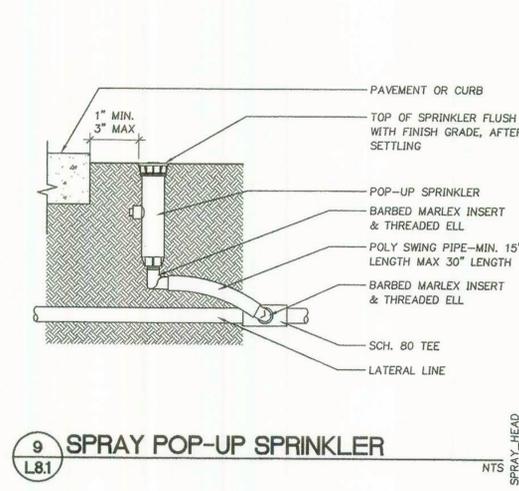
2 BACKFLOW PREVENTER
 L8.1 SCALE: NTS



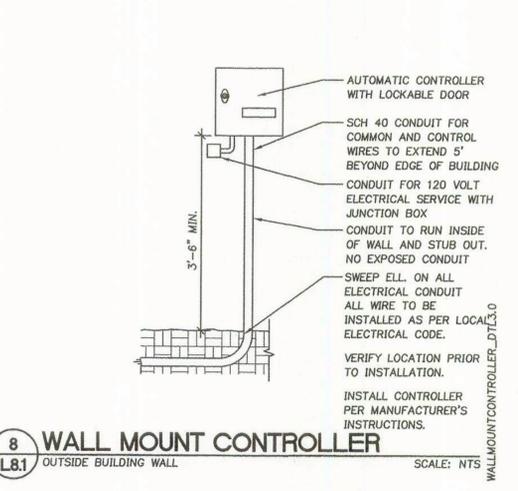
1 POINT OF CONNECTION
 L8.1 SCALE: NTS



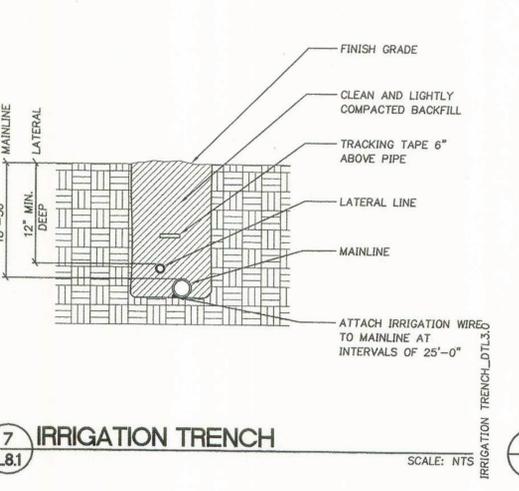
10 ELECTRIC REMOTE CONTROL VALVE
 L8.1 SCALE: NTS



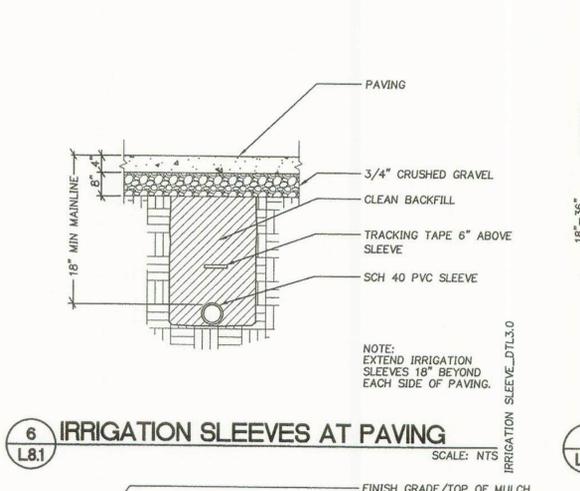
9 SPRAY POP-UP SPRINKLER
 L8.1 SCALE: NTS



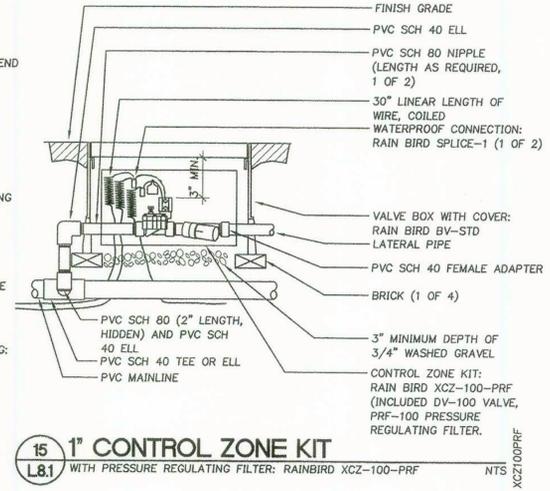
8 WALL MOUNT CONTROLLER
 L8.1 SCALE: NTS



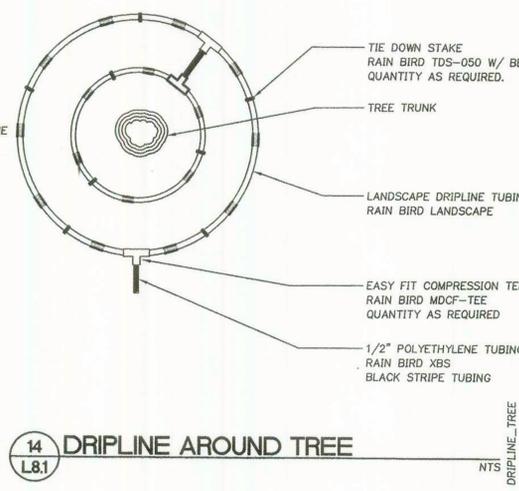
7 IRRIGATION TRENCH
 L8.1 SCALE: NTS



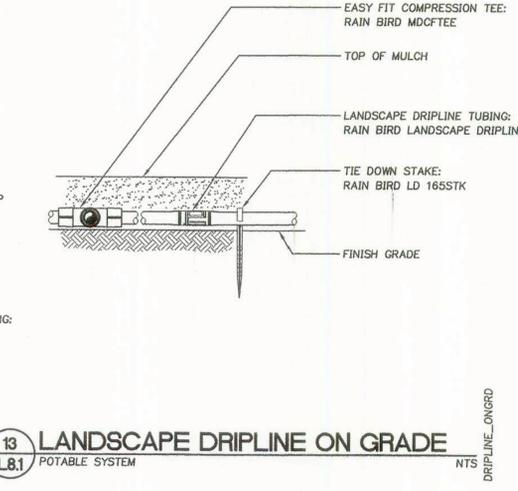
6 IRRIGATION SLEEVES AT PAVING
 L8.1 SCALE: NTS



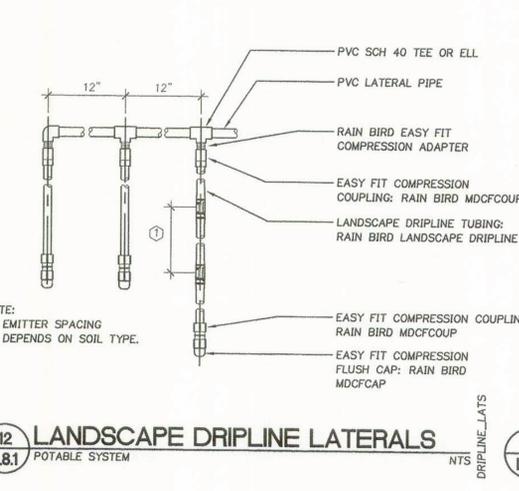
15 1\"/>



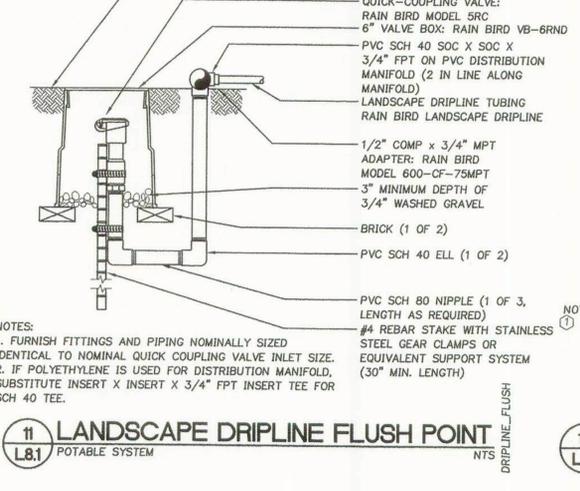
14 DRIPLINE AROUND TREE
 L8.1 SCALE: NTS



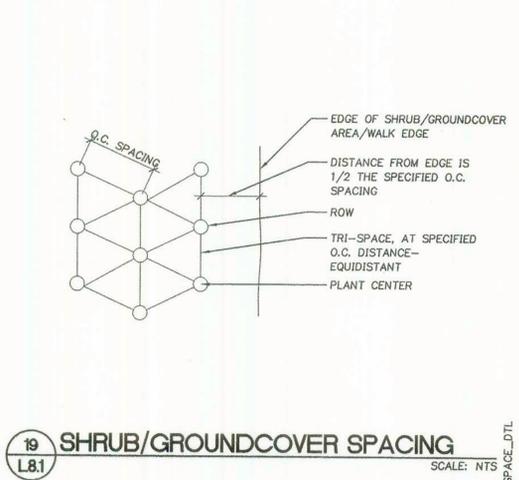
13 LANDSCAPE DRIPLINE ON GRADE
 L8.1 SCALE: NTS



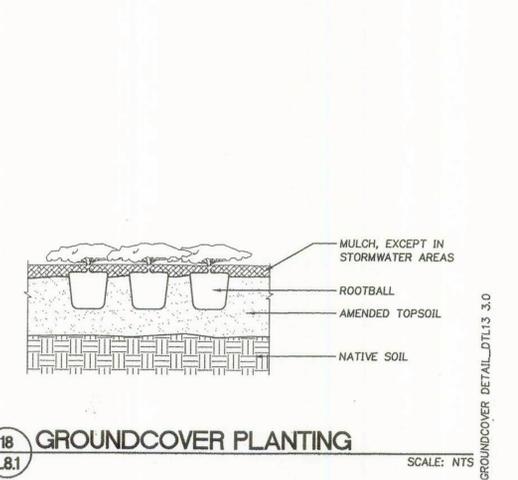
12 LANDSCAPE DRIPLINE LATERALS
 L8.1 SCALE: NTS



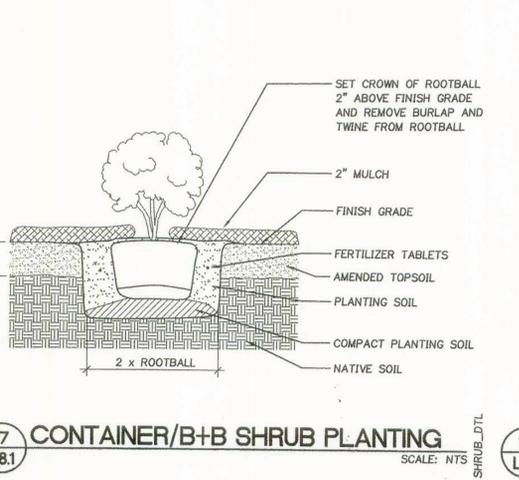
11 LANDSCAPE DRIPLINE FLUSH POINT
 L8.1 SCALE: NTS



19 SHRUB/GROUNDCOVER SPACING
 L8.1 SCALE: NTS



18 GROUNDCOVER PLANTING
 L8.1 SCALE: NTS



17 CONTAINER/B+B SHRUB PLANTING
 L8.1 SCALE: NTS



16 LANDSCAPE DRIPLINE FLUSH POINT
 L8.1 SCALE: NTS

APPROVED FOR CONSTRUCTION BY
 CITY OF WEST LINN
 This approval is only for general conformance with the design concept and general compliance with applicable codes and requirements and shall not be construed as relieving the Design Engineer of full responsibility for accuracy and completeness of the drawings. This plan review approval does not prevent the City from requiring further code corrections in the field.
 DATE: 06/13/13 BY: *[Signature]*

THE SURVEY INFORMATION SHOWN AS A BACKGROUND SCREEN ON THIS SHEET IS SHOWN FOR REFERENCE ONLY AND IS BASED ON A SURVEY BY WESTLAKE CONSULTANTS INC. DATE: 03/11/2011



REVISIONS:

NO.	REVISIONS	REVISION DATE	DELTA CLOSING DATE

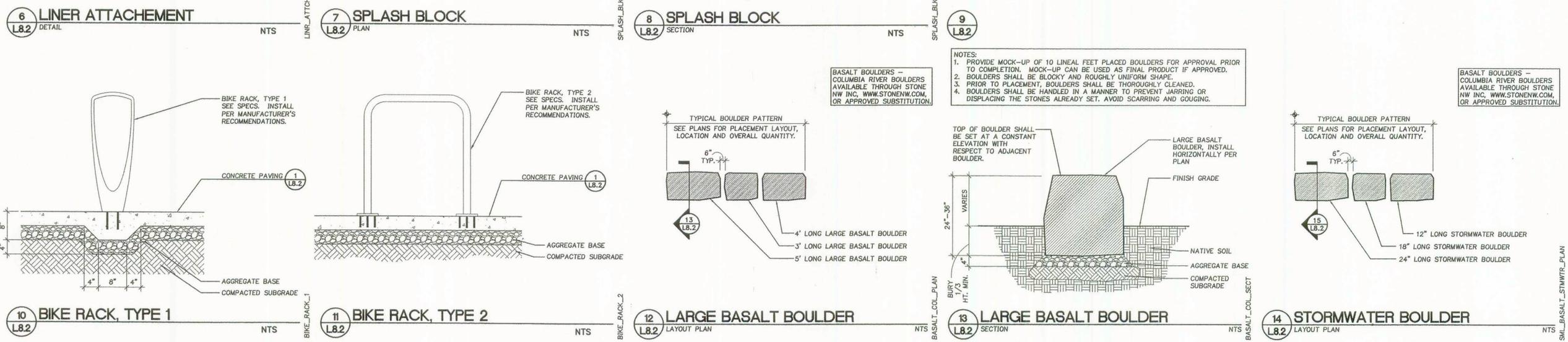
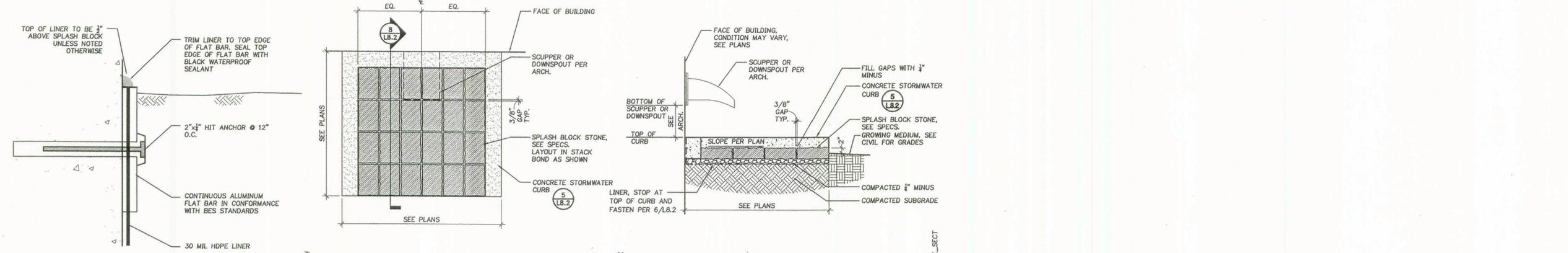
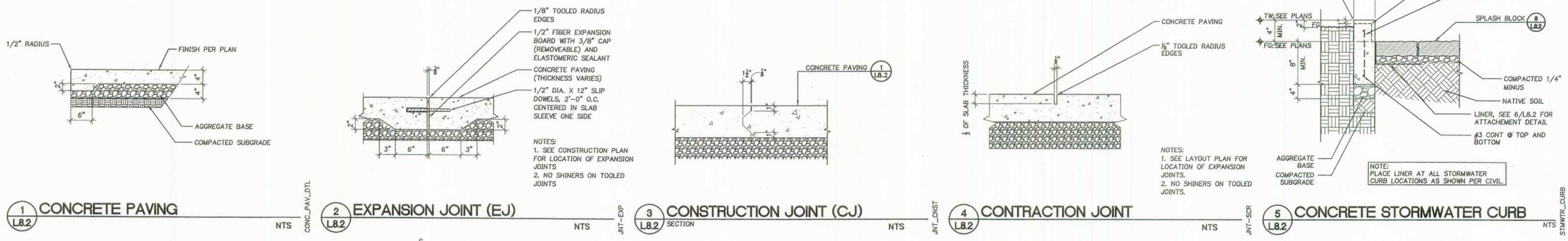
SHEET TITLE:
SITE DETAILS

DRAWN BY:
 CHECKED BY:
 SHEET:

L8.2

JOB NO. **2120180.00**

BID SET: 7/03/13



NOTES:
 1. PROVIDE MOCK-UP OF 10 LINEAL FEET PLACED BOULDERS FOR APPROVAL PRIOR TO COMPLETION. MOCK-UP CAN BE USED AS FINAL PRODUCT IF APPROVED.
 2. BOULDERS SHALL BE BLOCKY AND ROUGHLY UNIFORM SHAPE.
 3. PRIOR TO PLACEMENT, BOULDERS SHALL BE THOROUGHLY CLEANED.
 4. BOULDERS SHALL BE HANDLED IN A MANNER TO PREVENT JARRING OR DISPLACING THE STONES ALREADY SET. AVOID SCARRING AND GOUGING.

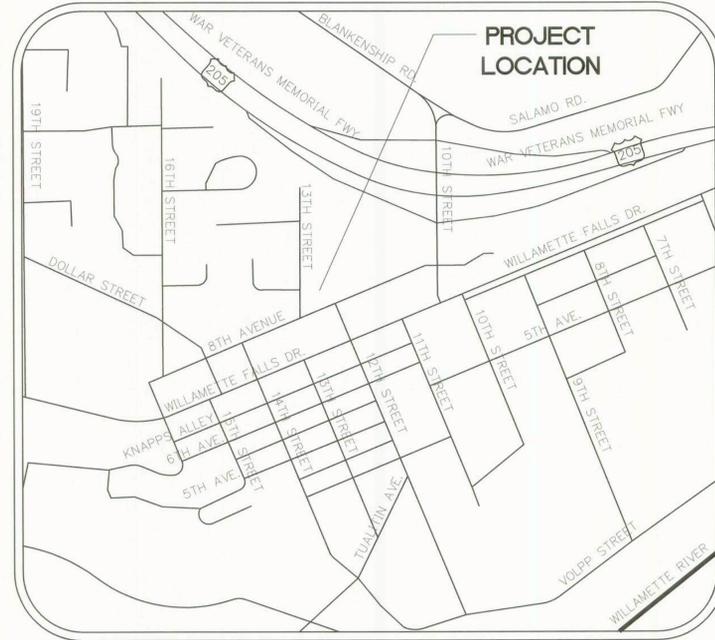
BASALT BOULDERS —
 COLUMBIA RIVER BOULDERS
 AVAILABLE THROUGH STONE
 NW INC. WWW.STONENW.COM,
 OR APPROVED SUBSTITUTION.

BASALT BOULDERS —
 COLUMBIA RIVER BOULDERS
 AVAILABLE THROUGH STONE
 NW INC. WWW.STONENW.COM,
 OR APPROVED SUBSTITUTION.

THE SURVEY INFORMATION SHOWN AS A BACKGROUND SCREEN ON THIS SHEET IS SHOWN FOR REFERENCE ONLY AND IS BASED ON A SURVEY BY WESTLAKE CONSULTANTS INC. DATE: 03/11/2011

WEST LINN POLICE STATION OFF-SITES

WEST LINN, OR



VICINITY MAP

NOT TO SCALE

CIVIL ENGINEER

GROUP MACKENZIE

RiverEast Center
1515 SE Water Avenue, Suite 100
Portland, Oregon 97214

P.O. Box 14310
Portland OR 97293

Phone: (503) 224-9560
Fax: (503) 228-1285

Civil Contact: Bob Frenless

SURVEYOR

NORTHWEST SURVEYING

1815 NW 169TH PL, Suite 2090
BEAVERTON, Oregon 97006

P.O. Box 14310
Portland OR 97293

Phone: (503) 848-2127

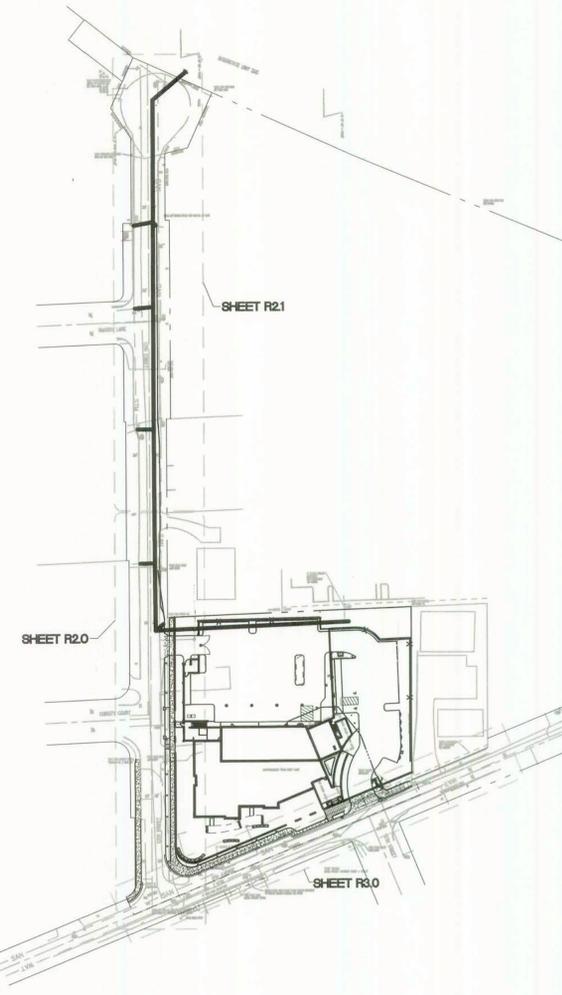
Survey Contact: CLINT STUBBS

LIST OF ABBREVIATIONS

TSB	TRAFFIC SIGNAL BOX	GL	GUTTER LINE
AC	ASPHALT CONCRETE	TC	TOP OF CURB
C.O.T.	CITY OF TUALATIN	MH	MANHOLE
CL	CENTERLINE	GUT	GUTTER
R/W	RIGHT OF WAY	TYP	TYPICAL
CB	CATCH BASIN	IE	INVERT ELEVATION
STD	STANDARD	SPEC	SPECIFICATION
TC	TOP OF CURB	EL	ELEVATION
CB	INLET	PL	PROPERTY LINE
EX	EXISTING	DET	DETAIL

SHEET INDEX

R1.0	COVER SHEET
R1.1	EXISTING CONDITIONS PLAN
R2.0	SW 13TH STREET PLAN AND PROFILE STA 10+00 TO STA 15+00
R2.1	SW 13TH STREET PLAN AND PROFILE STA 15+00 TO STA 19+47
R2.2	SW 8TH AVE AND SW 13TH STREET CORNER RAMPS
R3.0	SW 8TH AVE PLAN AND PROFILE STA 10+00 TO 14+50
R5.0	SITE SPECIFIC DETAILS
R5.1	CITY STANDARD DETAILS
R5.2	CITY STANDARD DETAILS
R5.3	STREET SECTIONS
R5.4	OFF-SITE TRAFFIC IMPROVEMENTS
R5.5	TRAFFIC IMPROVEMENT DETAILS
R5.6	TRAFFIC IMPROVEMENT DETAILS
C2.2	SITE GRADING PLAN
C2.3	SITE UTILITY PLAN
C8.2	SITE DETAILS
C8.4	SITE DETAILS
L2.1	ENLARGE SITE PLAN
L4.1	SITE LANDSCAPE PLAN
L8.1	IRRIGATION AND PLANTING DETAILS
L8.2	SITE DETAILS



CONTRACTOR'S RESPONSIBILITIES/ CONSTRUCTION GENERAL NOTES

- EFFECTIVE EROSION CONTROL IS REQUIRED. EROSION CONTROL DEVICES MUST BE INSTALLED AND MAINTAINED TO MEET CITY REQUIREMENTS. THE CITY MAY, AT ANY TIME, ORDER CORRECTIVE ACTION AND STOPPAGE OF WORK TO ACCOMPLISH EFFECTIVE EROSION CONTROL.
- DRAINAGE SHALL BE CONTROLLED WITHIN THE WORK SITE AND SHALL BE ROUTED SO THAT ADJACENT PRIVATE PROPERTY, PUBLIC PROPERTY, AND THE RECEIVING SYSTEM ARE NOT ADVERSELY IMPACTED.
- CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES LOCATED WITHIN THE LIMITS OF THE CONSTRUCTION ZONE. CONTRACTOR SHALL AT THEIR OWN EXPENSE REPAIR OR REPLACE ALL UTILITIES DAMAGED OR DISTURBED AS A RESULT OF CONSTRUCTION EFFORTS ASSOCIATED WITH THIS PROJECT. EXISTING UTILITIES HAVE BEEN SHOWN ON THESE PLANS AND ARE TO BE USED FOR REFERENCE ONLY. THE ENGINEER MAKES NO CLAIM AS TO THE ACCURACY OR THE COMPLETENESS OF ANY OF THE EXISTING UTILITY FEATURES. IT IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY EXISTENCE, LOCATION, CONDITION AND DEPTH OF ALL UTILITIES LOCATED WITHIN CONSTRUCTION AREA. NOTIFY ENGINEER AND INSPECTOR OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS, AND PRODUCT CUT SHEETS TO THE ENGINEER FOR REVIEW. FINAL REVIEW AND APPROVAL OF SAME WILL BE PROVIDED BY THE CITY OF WEST LINN. ALL MATERIALS WILL BE FORWARDED BY THE ENGINEER TO CITY OF WEST LINN UPON REVIEW FOR FINAL APPROVAL BY THE JURISDICTION.
- THE CONTRACTOR SHALL PROVIDE A COPY OF MARKED UP PLANS DENOTING ANY DEVIATIONS FROM THE PLANS AND SPECIFICATION FOR USE IN PREPARING 'AS-BUILTS'. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN AN ACCURATE SET OF REDLINE RECORDS OF ALL CHANGES THAT OCCUR DURING INSTALLATION AND CONSTRUCTION OF THESE FACILITIES. PLANS WILL BE REQUIRED TO BE PROVIDED TO THE ENGINEER FOR PREPARATION OF 'RECORD OF CONSTRUCTION' PLANS.
- THE CONTRACTOR SHALL REPLACE AND MATCH EXISTING SIDEWALKS & CURBS WHERE DISTURBED BY CONSTRUCTION ACTIVITIES, AS DIRECTED BY THE CITY AND AS SHOWN ON THE PLANS.
- CONTRACTOR IS TO REPLACE OR REPAIR TO LIKE NEW CONDITION ALL LANDSCAPE, IRRIGATION, UTILITIES, STRUCTURES, PAVING AND FENCES DAMAGED OR IMPACTED BY CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND CONSTRUCTION EASEMENTS PRIOR TO START OF WORK. THESE PERMITS AND EASEMENTS SHALL INCLUDE, BUT ARE NOT LIMITED TO, RIGHT OF ENTRY PERMITS, TREE REMOVAL AND PRUNING PERMITS, AND OVERHEAD ACCESS PERMITS.
- THE CONTRACTOR IS RESPONSIBLE TO NOTIFY THE ENGINEER, INSPECTOR OR JURISDICTIONAL AGENT OF THEIR SCHEDULE AND TO COORDINATE INSPECTION ACTIVITIES AS OUTLINED BY THE INSPECTOR. IT IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE AND SCHEDULE TIMELY INSPECTIONS. THE CONTRACTOR SHALL SUBMIT A DETAILED SCHEDULE OF CONSTRUCTION ACTIVITIES AND PROVIDE REGULAR UPDATES AND REVISIONS AS THEY ARE REQUIRED. FAILURE TO NOTIFY IN A TIMELY MANNER MAY RESULT IN CONSTRUCTION REJECTION OR WORK STOPPAGE FOR CONSTRUCTION CORRECTION.
- ALL STRIPING SHALL CONFORM TO MUTCD AND CITY OF WEST LINN STANDARDS AND SPECIFICATIONS. SEE SPECIAL PROVISIONS FOR ADDITIONAL DETAILS.
- INSTALL CENTERLINE MONUMENTS AT PC, PT, AND CENTER OF CUL-DA-SAC OR AS DIRECTED BY CITY.
- CONTRACTOR SHALL INSTALL PROJECT INFORMATION SIGN PER SECTION 302.03.00 PUBLIC WORKS CONSTRUCTION CODE.
- CONTRACTOR SHALL VERIFY 2% TO 3.5% CROSS SLOPE FROM EDGE OF EXISTING ASPHALT TO PROPOSED GUTTER PRIOR TO POURING CURB AND GUTTER.

GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF CITY OF WEST LINN PUBLIC WORKS CODE, AND CLEAN WATER SERVICES. ALL WORK WITHIN THE PUBLIC R.O.W. REQUIRES A PUBLIC WORKS PERMIT.
- ALL STORM PIPING IS SIZED FOR A MANNING'S "N" VALUE = 0.013. ALL STORM PIPING IS DESIGNED USING CONCENTRIC PIPE TO PIPE FITTINGS, UNLESS OTHERWISE NOTED.
- VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES BY POTHOLING PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF DISCREPANCIES.

NOTICE TO EXCAVATORS:
ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER.

(NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS 1-800-332-2344 OR 811.)



UNDERGROUND UTILITY TELEPHONE NUMBERS

NW NATURAL GAS	
M-F 7am-6pm	503-226-4211 Ext.3047
AFTER HOURS	503-226-4211
PGE	503-570-4420
QWEST	1-800-573-1311
VERIZON	503-643-2016
COMCAST	503-372-1384

BENCH MARK

BASIS OF BEARING FOR THE SURVEY IS THE CENTERLINE OF 8TH AVE HOLDING THE FOUND MONUMENTS AND THE BEARING FROM THE PLAT OF THE WILLAMETTE TRACTS. ELEVATIONS ARE BASED ON AN OREGON STATE HWY DEPARTMENT REFERENCE POINT, THE POINT IS MARKED BY A BRASS DISK STAMPED "EPP 7 1983", IT IS LOCATED APPROXIMATELY 16 FEET SOUTH OF THE DRIVEWAY FOR THE HOUSE LOCATED AT 1935 HILL HOUSE DRIVE. THE BENCH MARK HAS A PUBLISHED NAVD 88 ELEVATION OF 259 FEET.

THE SURVEY INFORMATION SHOWN AS A BACKGROUND SCREEN ON THIS SHEET IS SHOWN FOR REFERENCE ONLY AND IS BASED ON A SURVEY BY WESTLAKE CONSULTANTS INC. DATE: 03/11/2011

GROUP MACKENZIE
Architecture
Interior Design
Land Use Planning
Civil Engineering
Structural Engineering
Transportation Planning
Landscape Architecture
Portland OR
Vancouver WA
Seattle WA
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360.685.7878
206.749.8693

Client
CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OR 97068



Project:
WEST LINN POLICE DEPARTMENT
1800 8TH AVENUE
WEST LINN, OR 97068



GROUP MACKENZIE 2011
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REVISIONS:

NO.	REVISIONS	REVISION SHEET	DELTA	CLOSING DATE
2	X	08/07/13		
3		09-04-13		

SHEET TITLE:
COVER SHEET

DRAWN BY:

CHECKED BY:

SHEET:

R1.0

JOB NO. **2120180.00**

CCD #1: 9/4/13
BID SET: 7/03/13

12/20/2009 CIVIL PUBLIC\18000-R1.0.DWG RLF 09/05/13 08:26 1:20:00

SANITARY SEWER NOTES

- SS4 SANITARY MANHOLE
RIM = 202.62'
I.E. 8" IN (W) = 188.4'
I.E. 8" OUT (N) = 187.7'
- SS5 SANITARY MANHOLE
RIM = 178.54'
I.E. 8" IN (W) = 173.5'
FLOW LINE 8" (S TO N) = 173.3'

STORM DRAINAGE NOTES

- SD7 MANHOLE
RIM = 202.10'
I.E. 12" PVC IN (SW) = 197.2' (STUB OUT)
I.E. 12" PVC OUT (NE) = 197.0'
- SD8 SMALL CATCH BASIN
TOP OF GRATE = 178.07'
I.E. 12" CONC. OUT (W) = 176.1'

PAVEMENT SECTIONS

- MILL 3" AND REPLACE W/ 4" OF LEVEL 3 HMAC (2 LIFTS)
- REMOVE AND REPLACE EXISTING AC SECTION REPLACE W/ 4" LEVEL 3 HMAC (2 LIFTS) OVER 2" OF 3/4"-0" LEVELING COARSE OVER 10" OF 1/2"-0" BASE ROCK

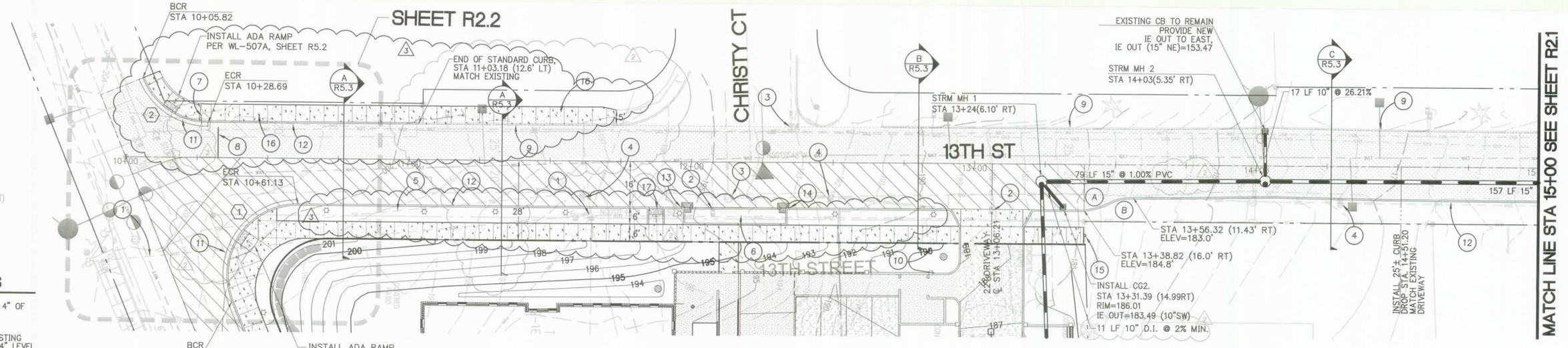
CURB RETURN TABLE

CURVE	RADIUS	LENGTH	DELTA	BCR	1/4 Δ	1/2 Δ	3/4 Δ	ECR
1	25'	49.0'	112°18'07"	10+38.0	200.77	200.82	200.88	200.90
2	25'	29.6'	67°48'40"	10+05.8	202.80	202.59	202.39	202.18

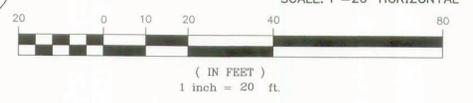
NOTE: ALL ELEVATIONS SHOWN ARE GUTTER GRADE UNLESS SHOWN OTHERWISE ON PLAN.

CURVE TABLE

CURVE	RADIUS	LENGTH	DELTA
A	29.55'	11.07'	21°28'25"
B	17.46'	7.17'	23°31'21"

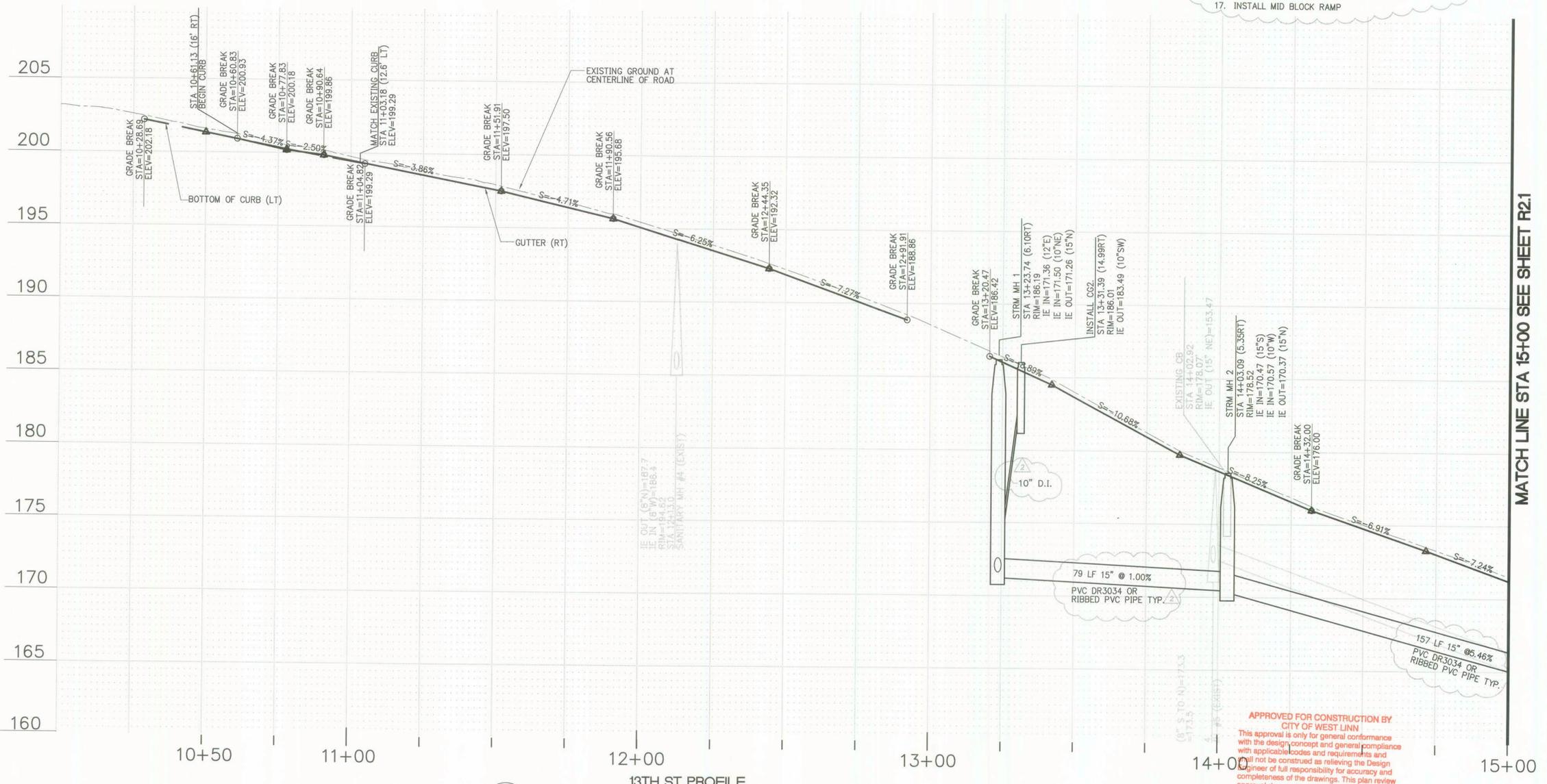


**13TH ST PLAN
STA 10+00 TO STA 15+00**



KEYNOTES

- CONTRACTOR TO COORD. REMOVAL/ UNDERGROUNDING OF EXISTING OVERHEAD UTILITIES W/ UTILITY PROVIDER
- WATER SERVICE TO BE ABANDONED, COORDINATE W/CITY
- ADJUST RIM TO FINISH GRADE
- EXISTING MAILBOX, TO BE REMOVED AND RECYCLED
- EXISTING TELEPHONE LINES TO BE PROTECTED DURING CONSTRUCTION
- INSTALL WATER QUALITY FACILITY, SEE DETAILS SHEET R5.0
- INSTALL NEW STOP SIGN
- INSTALL NEW STOP BAR
- EXISTING CURB TO REMAIN
- NEW STREET LIGHT EITHER TOWN AND COUNTRY HIGH PRESSURE SODIUM OR BETA LED. COORD. W/ CITY AND PGE, SET 2' FROM FACE OF CURB.
- INSTALL CURB AND GUTTER
- STANDARD CURB PER DETAIL WL-501, SHEET R5.1
- BEGIN CURB AND GUTTER, STA 11+96.57 SW 13TH STREET
- END CURB AND GUTTER, STA 12+34.47 SW 13TH STREET
- INSTALL "END OF SIDEWALK" SIGN
- FUTURE SIDEWALK NOT CONSTRUCTED AT THIS TIME
- INSTALL MID BLOCK RAMP



**13TH ST PROFILE
STA 10+00 TO STA 15+00**

SCALE: 1"=20' HORIZONTAL
1"=4' VERTICAL

MATCH LINE STA 15+00 SEE SHEET R2.1

MATCH LINE STA 15+00 SEE SHEET R2.1

GROUP MACKENZIE
Architecture
Interior Design
Land Use Planning
Civil Engineering
Structural Engineering
Transportation Planning
Landscape Architecture
Seattle WA 206.746.9693
Vancouver WA 360.665.7879
Portland OR 503.224.9560

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CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OR 97068



Project
WEST LINN POLICE DEPARTMENT
1800 8TH AVENUE
WEST LINN, OR 97068

REGISTERED PROFESSIONAL ENGINEER
#10170
ORRIGON
ROBERT L. FRENTRESS, JR.
EXPIRES: 12/31/13

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REVISIONS:

REVISION	DELTA	THIS SHEET	REVISION	DELTA	CLOSING DATE
2	X		08/07/13		
3	X		09-04-13		

SHEET TITLE:
SW 13TH ST
PLAN AND PROFILE
STA 10+00 TO 15+00

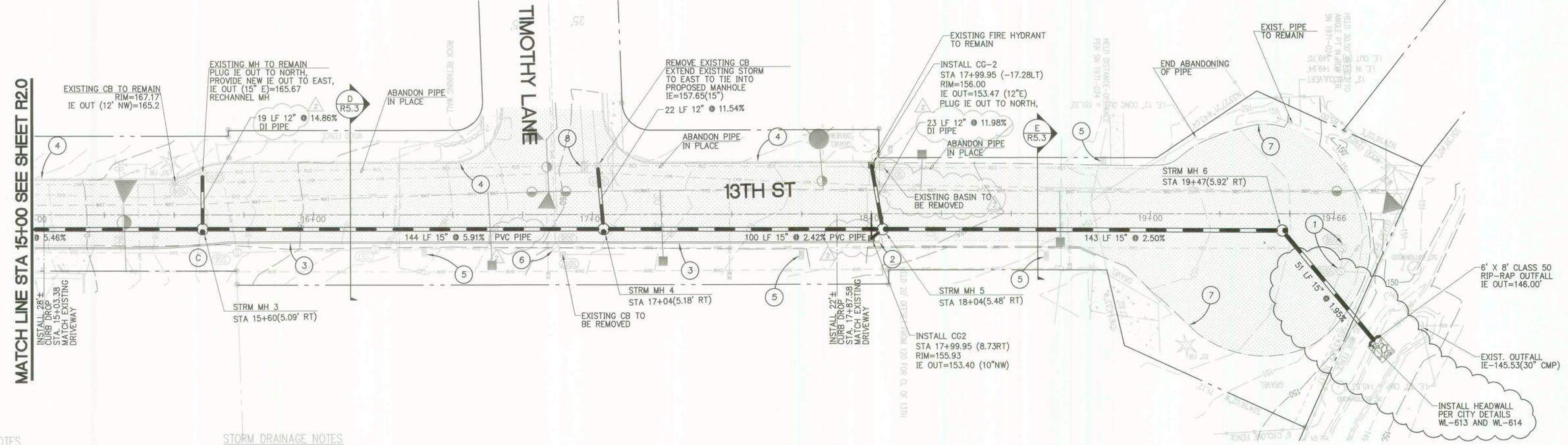
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SHEET:

R2.0

CCD #: 9/4/13
JOB NO. 2120180.00
BID SET: 7/03/13

THE SURVEY INFORMATION SHOWN AS A BACKGROUND SCREEN ON THIS SHEET IS SHOWN FOR REFERENCE ONLY AND IS BASED ON A SURVEY BY WESTLAKE CONSULTANTS INC. DATE: 03/11/2011

APPROVED FOR CONSTRUCTION BY
CITY OF WEST LINN
This approval is only for general conformance with the design concept and general compliance with applicable codes and requirements and shall not be construed as relieving the Design Engineer of full responsibility for accuracy and completeness of the drawings. This plan review approval does not prevent the City from requiring further code corrections in the field.
DATE: 09/03/13 BY: *Kwiri & Co*



SANITARY SEWER NOTES

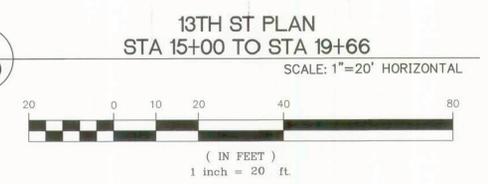
- SS6 SANITARY MANHOLE
RIM = 166.29'
FLOW LINE 8" (S TO N) = 159.8'
IN (W AND S) OUT (N)
- SS7 SANITARY MANHOLE
RIM = 163.44'
FLOW LINE 8" (S TO N) = 156.0'
- SS8 SANITARY MANHOLE
RIM = 159.93'
FLOW LINE 8" = 153.8'
IN (W AND S) OUT (N)
- SS9 SANITARY MANHOLE
RIM = 151.34'
FLOW LINE 8" = 144.0'
IN (S) OUT (E)
- SS10 SANITARY MANHOLE
RIM = 151.32'
FLOW LINE = 141.5'
8" IN (W AND NW)
12" IN (W) OUT (SE)

STORM DRAINAGE NOTES

- SD9 SMALL CATCH BASIN
TOP OF GRATE = 167.17'
I.E. 12" CONC. OUT (NW) = 165.2'
- SD10 MANHOLE
RIM = 166.91'
FLOW LINE 12" = 164.7'
IN (SE AND W) OUT (N)
- SD11 CATCH BASIN
TOP OF GRATE = 159.22'
I.E. 12" IN (S) = 156.6'
I.E. 12" IN (W) = 156.7'
I.E. 12" OUT (N) = 156.5'
- SD12 SMALL CATCH BASIN
TOP OF GRATE = 159.43'
I.E. 8" OUT (N) = 158.2'
- SD13 CATCH BASIN
TOP OF GRATE = 155.64'
I.E. 12" IN (S) = 153.9'
I.E. 12" OUT (N) = 153.8'

CURVE TABLE

#	RADIUS	LENGTH	DELTA
C	395.95'	25.80'	3°43'59"

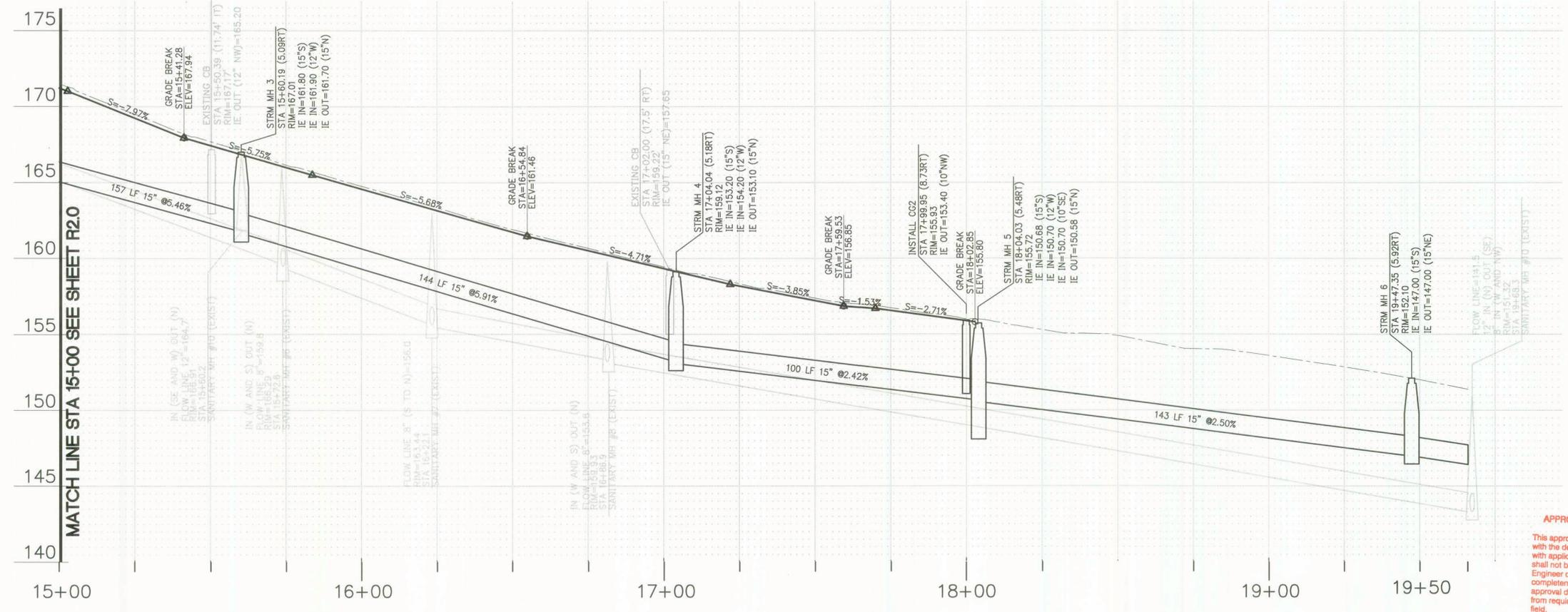


KEYNOTES

1. ADJUST RIM TO FINISH GRADE
2. END CURB STA. 18+02.85 (9.7' RT)
3. STANDARD CURB PER WL-501, SHEET R5.1
4. EXISTING CURB TO REMAIN
5. EXISTING MAILBOX TO BE PROTECTED DURING CONSTRUCTION
6. ADJUST RIM/MH TOP OUT OF CURB ALIGNMENT
7. EDGE OF PAVEMENT
8. ADJUST VALVE BOXES TO FG

PAVEMENT SECTIONS

- MILL 3" AND REPLACE W/ 4" OF LEVEL 3 MAC (2 LIFTS)
- REMOVE AND REPLACE EXISTING AC SECTION REPLACE W/ 4" LEVEL 3 MAC (2 LIFTS) OVER 2" OF 3/4"-0" LEVELING COARSE OVER 10" OF 1/2"-0" BASE ROCK



13TH ST PROFILE STA 15+00 TO STA 19+66
SCALE: 1"=20' HORIZONTAL
1"=4' VERTICAL

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DATE: 08/08/13 BY: *[Signature]*

GROUP MACKENZIE
Architecture
Interior Design
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Transportation Planning
Landscape Architecture
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Vancouver WA
Seattle WA
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206.749.9893

Client
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22500 SALAMO ROAD
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Project
WEST LINN POLICE DEPARTMENT
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REVISION	DATE	BY	DESCRIPTION
2	X	08/07/13	
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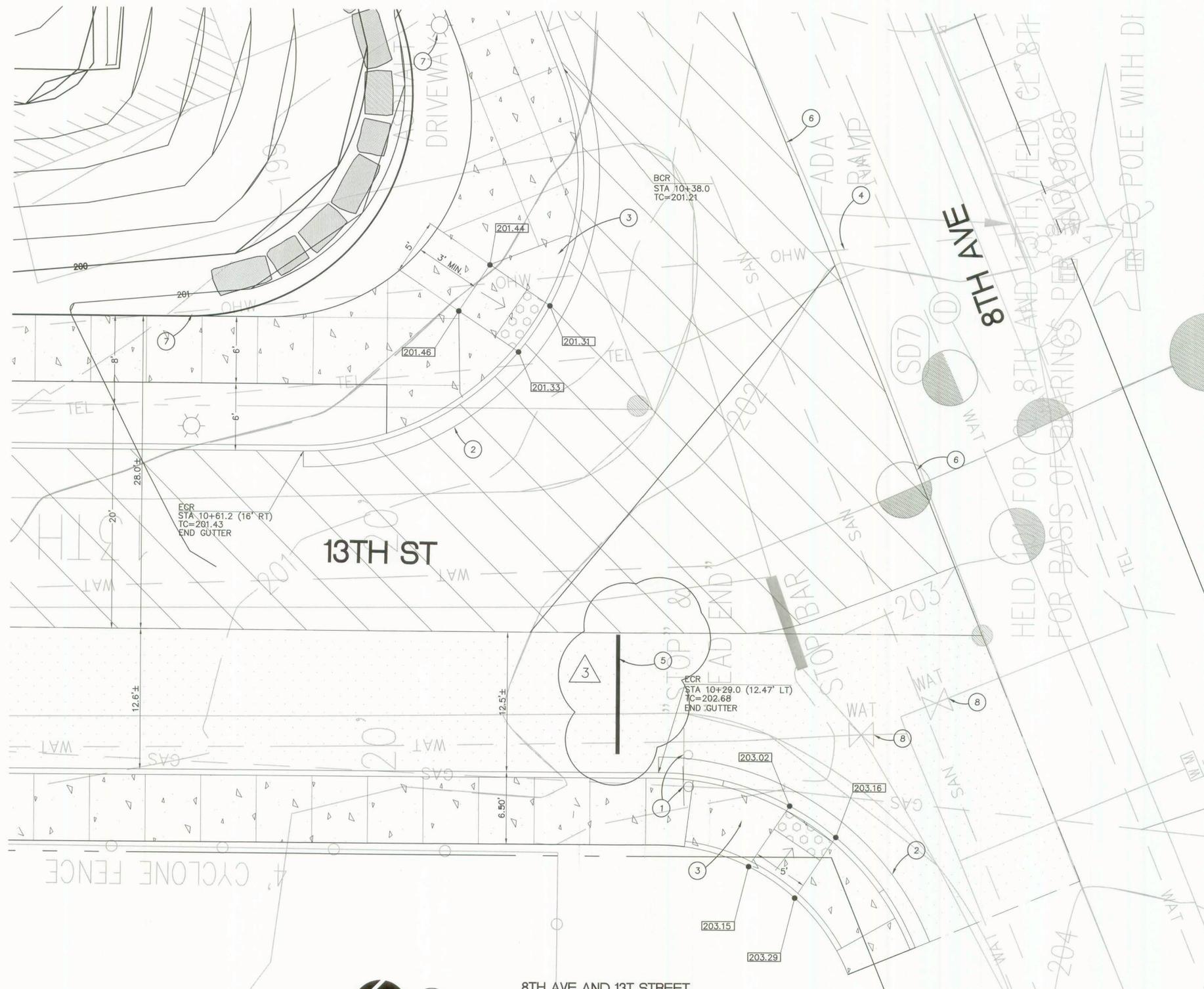
SHEET TITLE:
SW 13TH ST
PLAN AND PROFILE
STA 15+00 TO
STA 19+66

DRAWN BY:
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SHEET:

R2.1

JOB NO. **2120180.00**

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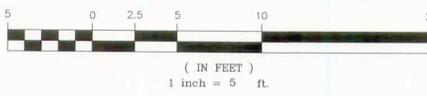
KEYNOTES

1. STOP SIGN TO BE RELOCATED - REINSTALL WITH V-LOCK SYSTEM (BREAK AWAY)
2. CURB AND GUTTER PER WL-501, SHEET R5.1
3. FUTURE ADA RAMP PER WL-507A, SHEET R5.2 (SW CORNER)
4. CONTRACTOR TO COORD. REMOVAL/UNDERGROUNDING OF EXISTING OVERHEAD UTILITIES
5. INSTALL NEW STOP BAR (THERMO PLASTIC)
6. SAW-CUT AND REPLACE EXISTING AC @ CENTERLINE
7. PROPOSED STREET LIGHT (2' FROM FACE OF CURB)
8. ADJUST VALVE BOX TO FG



**8TH AVE AND 13TH STREET
CORNER RAMPS**

SCALE: 1"=5' HORIZONTAL



PAVEMENT SECTIONS

- MILL 3" AND REPLACE W/ 4" OF LEVEL 3 HMAC (2 LIFTS)
- REMOVE AND REPLACE EXISTING AC SECTION REPLACE W/ 4" LEVEL 3 HMAC (2 LIFTS) OVER 2" OF 1/2"-0" LEVELING COARSE OVER 10" OF 1/2"-0" BASE ROCK

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 DATE: 03/01/13 BY: *K. S. & C. L.*

GROUP MACKENZIE
 Architecture
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 Portland OR 503.224.9560
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Client
CITY OF WEST LINN
 22500 SALAMO ROAD
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WEST LINN POLICE DEPARTMENT
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EXPIRES: 12/31/13

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REVISIONS:

NO.	REVISIONS	DATE
2	X	08/07/13
3	X	09-04-13

SHEET TITLE:
SW 8TH AVE AND SW 13TH STREET CORNER RAMPS

DRAWN BY:
 CHECKED BY:
 SHEET:

R2.2

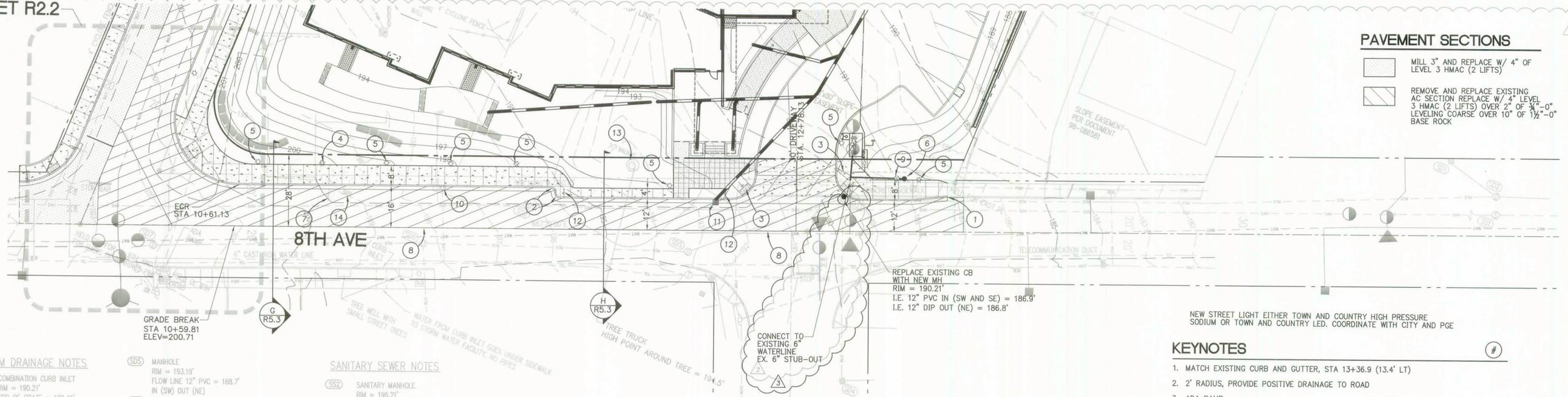
JOB NO. **2120180.00**

CCD #1: 9/4/13
 BID SET: 7/03/13

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PAVEMENT SECTIONS

-  MILL 3" AND REPLACE W/ 4" OF LEVEL 3 HMAC (2 LIFTS)
-  REMOVE AND REPLACE EXISTING AC SECTION REPLACE W/ 4" LEVEL 3 HMAC (2 LIFTS) OVER 2" OF 3/4"-0" LEVELING COARSE OVER 10" OF 1/2"-0" BASE ROCK



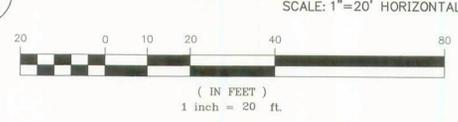
STORM DRAINAGE NOTES

- SD3 COMBINATION CURB INLET
RIM = 190.21'
TOP OF GRATE = 189.41'
I.E. 12" PVC IN (SW AND SE) = 186.9'
I.E. 12" DIP OUT (NE) = 186.8'
- SD4 COMBINATION CURB INLET
RIM = 191.11'
TOP OF GRATE = 190.51'
I.E. 10" PVC IN (E) = 188.7'
I.E. 12" PVC OUT (NW) = 188.3'
- SD5 MANHOLE
RIM = 193.19'
FLOW LINE 12" PVC = 188.7'
IN (SW) OUT (NE)
- SD6 MANHOLE
RIM = 198.25'
I.E. 8" PVC IN (SE) = 195.5'
I.E. 12" PVC IN (SW) = 193.5'
I.E. 12" PVC OUT (NE) = 193.3'
- SD7 MANHOLE
RIM = 202.10'
I.E. 12" PVC IN (SW) = 197.2' (STUB OUT)
I.E. 12" PVC OUT (NE) = 197.0'

SANITARY SEWER NOTES

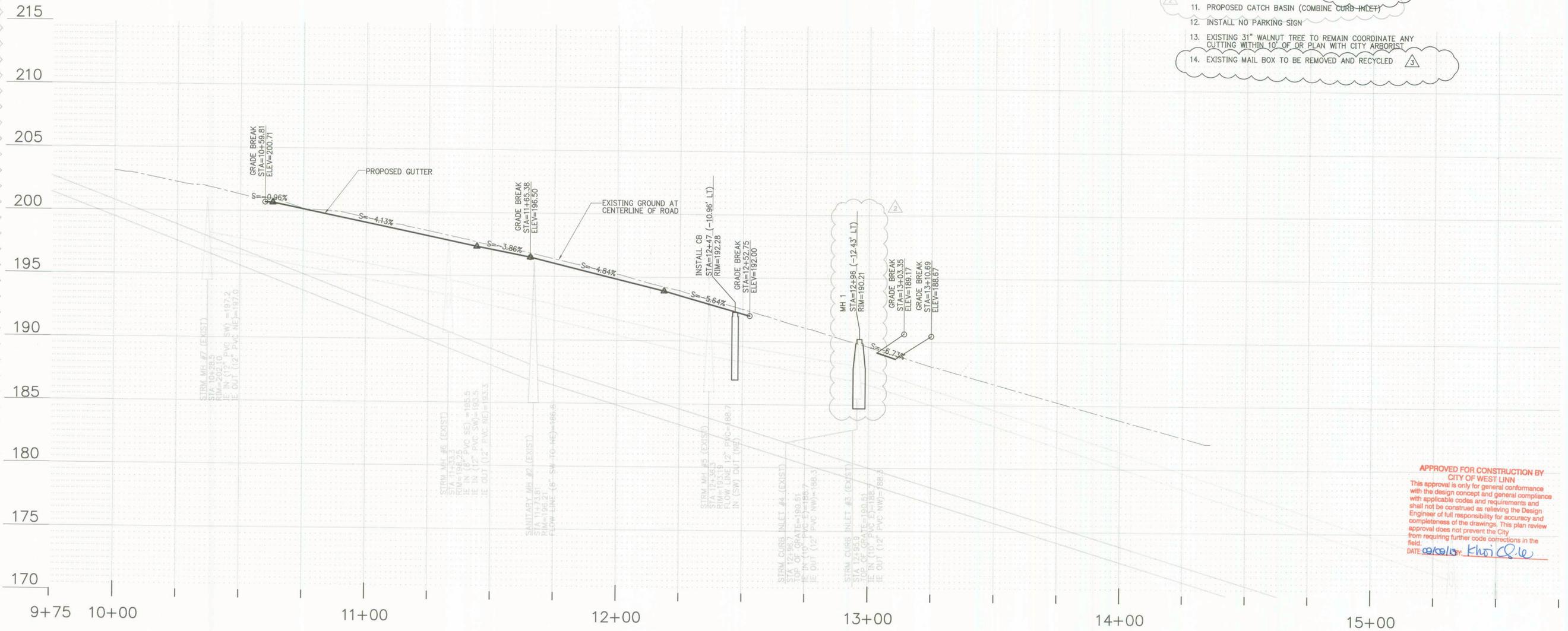
- SS2 SANITARY MANHOLE
RIM = 196.21'
FLOW LINE 8" (SW TO NE) = 186.8'
- SS3 SANITARY MANHOLE
RIM = 218.21'
I.E. 8" OUT (NE) = 206.8'

8TH AVE PLAN
STA 10+00 TO STA 14+50

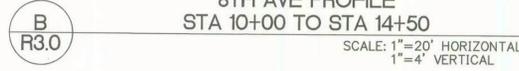


KEYNOTES

1. MATCH EXISTING CURB AND GUTTER, STA 13+36.9 (13.4' LT)
2. 2' RADIUS, PROVIDE POSITIVE DRAINAGE TO ROAD
3. ADA RAMP
4. STREET-LIGHT-TO BE REMOVED
5. NEW STREET LIGHT EITHER TOWN AND COUNTRY HIGH PRESSURE SODIUM OR BETA LED. COORDINATE WITH CITY AND PGE
6. PROPOSED PUBLIC FH
7. NO PARKING SIGN TO BE REMOVED, COORD W/CITY
8. SAW-CUT AND MATCH EXISTING AC @ CENTERLINE
9. PROPOSED WATER VALVE
10. EXISTING WATER METER TO BE REMOVED BY CITY
11. PROPOSED CATCH BASIN (COMBINE CURB INLET)
12. INSTALL NO PARKING SIGN
13. EXISTING 31" WALNUT TREE TO REMAIN COORDINATE ANY CUTTING WITHIN 10' OR PLAN WITH CITY ARBORIST
14. EXISTING MAIL BOX TO BE REMOVED AND RECYCLED



8TH AVE PROFILE
STA 10+00 TO STA 14+50



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DATE: 09/04/13
K. H. COLE

GROUP MACKENZIE
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Vancouver WA 360.686.7878
Seattle WA 206.749.9660

Client
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SW 8TH AVE
PLAN AND PROFILE
STA 10+00 TO
STA 14+50

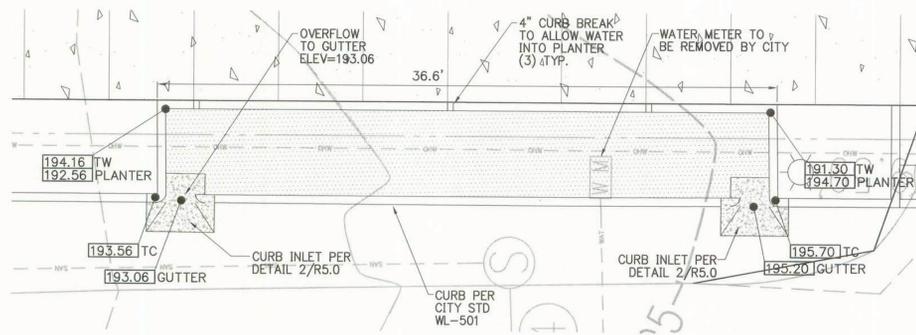
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R3.0

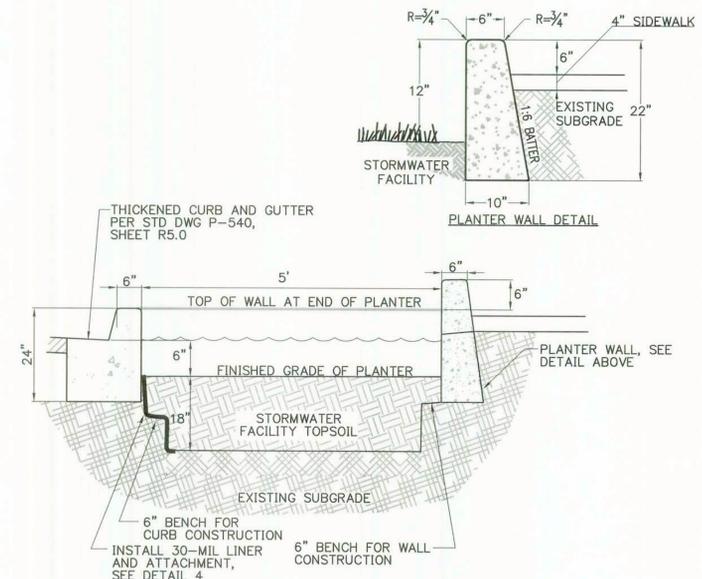
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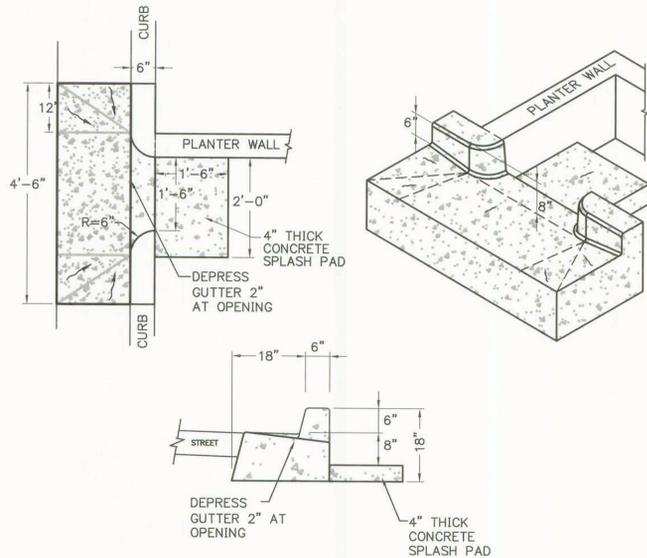
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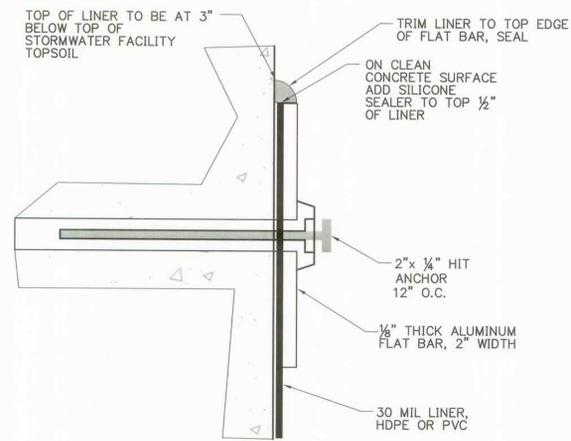
1 STORMWATER FACILITY
R5.0 1"=5'



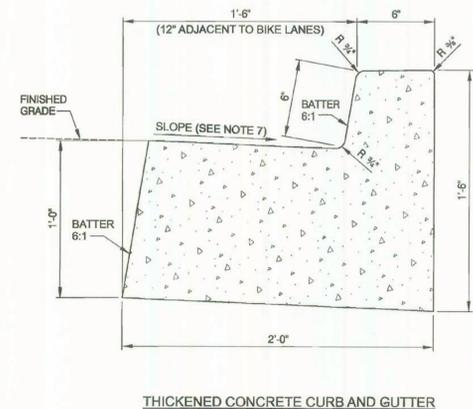
2 13TH STREET PLANTER SECTION
R5.0 N.T.S.



3 CURB INLET DETAIL
R5.0 N.T.S. TYP DTL SW-331 MODIFIED BY GROUP MACKENZIE



4 LINER ATTACHMENT DETAIL
R5.0 N.T.S.



5 THICKENED CONCRETE CURB AND GUTTER
R5.0

- GENERAL NOTES:**
- THICKENED CONCRETE CURB AND GUTTER TO BE USED WHEN ADJACENT TO SURFACE STORMWATER FACILITIES.
 - CURB EXPOSURE IS 6". VARY ONLY AS SHOWN ON PLANS OR AS APPROVED.
 - CONSTRUCT EXPANSION JOINTS AT POINTS OF TANGENCY, AND AT ENDS OF EACH DRIVEWAY.
 - CONSTRUCT CONTRACTION JOINTS AT 15' MAXIMUM SPACING AND AT ENDS OF EACH INLET AND RAMP.
 - TRANSITIONS SHALL BE USED TO CONNECT CURBS OF DIFFERENT CURB EXPOSURES. THE DESIRABLE TRANSITION LENGTH SHALL BE 1' FOR EACH 1" DIFFERENCE IN CURB EXPOSURE. WHEN MATCHING INTO EXISTING STANDARD CURB, THE TRANSITION SHALL BE DONE USING STANDARD CURB PER ODOT STD. DRG. RD700 OUTSIDE OF STORM WATER FACILITY ONLY.
 - TOPS OF ALL CURBS SHALL SLOPE TOWARD THE ROADWAY AT 2% NORMAL UNLESS OTHERWISE SHOWN OR AS APPROVED.
 - GUTTER PAN SHALL SLOPE BETWEEN 2% AND 6%, VARY AS SHOWN ON THE PLANS OR AS APPROVED.
 - DIMENSIONS ARE NOMINAL, VARY TO CONFORM WITH CURB MACHINE AS APPROVED.

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user.	 STEVE JOHNSON Chief Engineer	BUREAU OF TRANSPORTATION CITY OF PORTLAND, OREGON	
		Standard Drawing Title THICKENED CURB AND GUTTER	
Note: All material and workmanship shall be in accordance with the City of Portland Standard Construction Specifications.	Effective Date: 12-08-09	Standard Drawing No.	P-540
	Calc. Book No.:		
	Baseline Report Date:		

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DATE: 09/03/13 BY: *Khoi C. Le*

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CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OR 97068



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NO.	REVISIONS	REVISION DATE	DELTA
1	THIS SHEET	08/07/13	
2		09-04-13	
3			

SHEET TITLE:
SITE SPECIFIC DETAILS

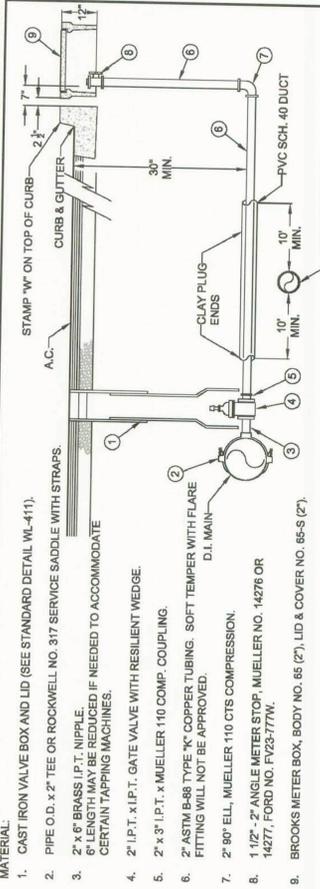
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JOB NO. **2120180.00**

CCD #: 9/4/13
BID SET: 7/03/13

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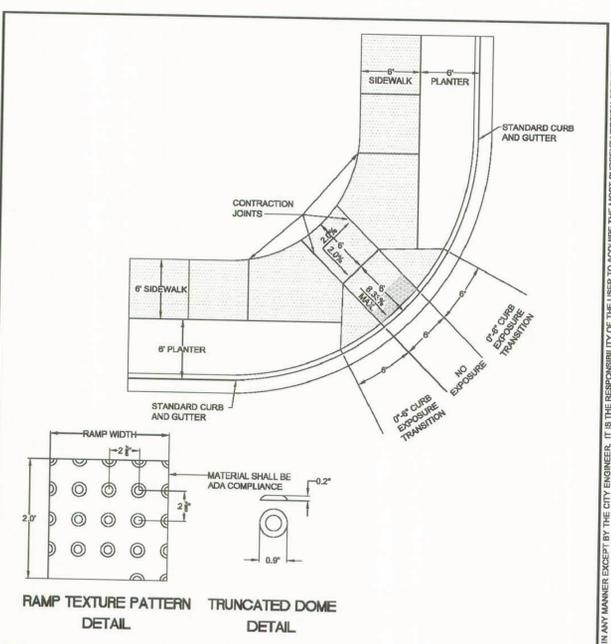


- MATERIAL:**
- CAST IRON VALVE BOX AND LID (SEE STANDARD DETAIL WL-411).
 - PIPE O.D. x 2" TEE OR ROCKWELL NO. 317 SERVICE SADDLE WITH STRAPS.
 - 2" x 6" BRASS I.P.T. NIPPLE. LENGTHS MAY BE REDUCED IF NEEDED TO ACCOMMODATE CERTAIN TAPPING MACHINES.
 - 2" I.P.T. x I.P.T. GATE VALVE WITH RESILIENT WEDGE.
 - 2" x 3" I.P.T. x MUELLER 110 COMP. COUPLING.
 - 2" ASTM B88 TYPE 'K' COPPER TUBING. SOFT TEMPER WITH FLARE FITTING WILL NOT BE APPROVED.
 - 2" 90° ELL, MUELLER 110 CTS COMPRESSION.
 - 1 1/2" - 2" ANGLE METER STOP, MUELLER NO. 14276 OR 14277, FORD NO. FV2377W.
 - BROOKS METER BOX, BODY NO. 65 (2'), LID & COVER NO. 65-S (2').
- NOTE:**
- MACHINE DRILLED AND TAPPED ONLY. NO HAND DRILLING IS ALLOWED.
 - SUBSTITUTES FOR ANY MATERIALS SHOWN SHALL BE APPROVED BY THE CITY ENGINEER.
 - ALL PIPE AND STRUCTURE ZONE SHALL BE BACKFILLED USING 3/4" MINUS CRUSHED AGG. AND COMPACTED TO 85% MAX DENSITY AS DETERMINED BY AASHTO T-180.
 - WHEN AN ACTIVE CATHODIC PROTECTED SYSTEM IS ENCOUNTERED, SCH. 40 PVC SHALL BE INSTALLED AS SHOWN ABOVE WITH CLAY PLUG.
 - METER BOX SHALL BE CENTERED OVER THE COMPLETED METER AND FITTING ASSEMBLY.
 - CUSTOMER SHALL INSTALL AN APPROVED BACKFLOW PREVENTION DEVICE.
 - METER BOXES IN CURB TIGHT SIDEWALK AND THOSE SUBJECT TO INCIDENTAL AUTO TRAFFIC MUST HAVE METAL LIDS AND BE TRAFFIC RATED.

STANDARD 1 1/2" - 2" WATER SERVICE

DATE: 2010
DRAWING NO. WL-403
FILE NO.

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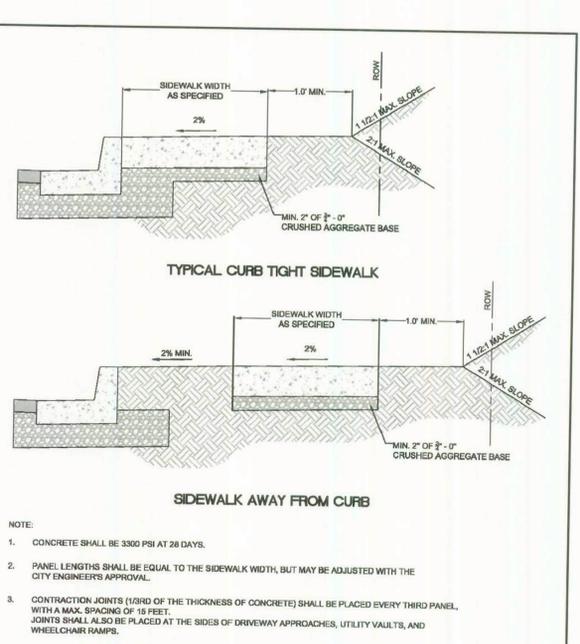


- NOTE:**
- LANDING AT TOP OF RAMP SHALL NOT EXCEED 2% IN ANY DIRECTION AND SHALL BE A MINIMUM OF 60" x 60".
 - RAMP CROSS SLOPE SHALL NOT EXCEED 2% (AS MEASURED PERPENDICULAR TO PEDESTRIAN TRAFFIC FLOW).
 - TRUNCATED DOME MUST EXTEND THE FULL WIDTH OF THE RAMP AND COVER THE FIRST 2 FEET OF THE RAMP CLOSEST TO THE STREET.
 - TRANSITIONS FROM THE RAMP TO THE WALKWAY, GUTTER, AND STREET MUST BE FLUSH (LEVEL) AND FREE OF ABRUPT LEVEL CHANGES.
 - THE GUTTER OR ADJACENT ROADWAY MUST HAVE A SLOPE OF NO MORE THAN 5 PERCENT (1:20) TOWARD THE RAMP.
 - FLARED SIDES ("WING") OF THE CURB RAMP SHALL NOT EXCEED 10% IN SLOPE (8.33% IF PEDESTRIAN TRAVEL IS REQUIRED OVER THEM PER ADA STANDARDS - I.E. IF MINIMUM 48" x 48" (FOR EXISTING SITES ONLY). LANDING IS NOT PROVIDED AT TOP OF RAMP).
 - CONCRETE STRENGTH SHALL BE 3000 PSI.
 - PLACE CONTRACTION JOINTS AS SHOWN ABOVE.
 - NO ABOVE GROUND UTILITIES ARE PERMITTED WITHIN RAMP AREA.
 - WHEN EITHER OPPOSING CURB RAMP HAS AN EXISTING TWIN RAMP, USE DETAIL WL-507B.

SINGLE CURB RAMP (ALLOWED WITH CITY ENGINEER APPROVAL ONLY)

DATE: 2010
DRAWING NO. WL-507A
FILE NO.

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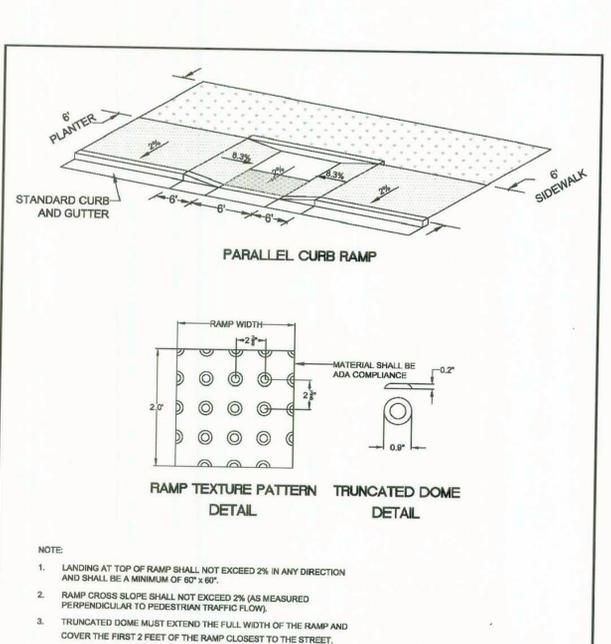


- NOTE:**
- CONCRETE SHALL BE 3000 PSI AT 28 DAYS.
 - PANEL LENGTHS SHALL BE EQUAL TO THE SIDEWALK WIDTH, BUT MAY BE ADJUSTED WITH THE CITY ENGINEER'S APPROVAL.
 - CONTRACTION JOINTS (1/3RD OF THE THICKNESS OF CONCRETE) SHALL BE PLACED EVERY THIRD PANEL, WITH A MAX. SPACING OF 16 FEET. JOINTS SHALL ALSO BE PLACED AT THE SIDES OF DRIVEWAY APPROACHES, UTILITY VAULTS, AND WHEELCHAIR RAMPS.
 - A CURING COMPOUND SHALL BE USED. WHITE REFLECTIVE SHEETING SHALL BE USED IN CASE OF RAIN.
 - FOR SIDEWALKS ADJACENT TO THE CURB AND POURED AT THE SAME TIME AS THE CURB, THE JOINT BETWEEN THEM SHALL BE A TROWELED JOINT WITH A MIN. 1/2" RADIUS.
 - THE SIDEWALK SHALL HAVE A MIN. THICKNESS OF 6" IF THE SIDEWALK IS INTENDED AS A PORTION OF THE DRIVEWAY. OTHERWISE, THE SIDEWALK SHALL HAVE A MIN. THICKNESS OF 4".
 - DRAIN BLOCKOUTS IN THE CURB SHALL BE EXTENDED TO THE BACK OF THE SIDEWALK WITH A 3" DIAMETER PLASTIC PIPE AT A 2% SLOPE. A CONTRACTION JOINT SHALL BE PLACED OVER THE PIPE.

CONCRETE SIDEWALK CROSS SECTION

DATE: 2010
DRAWING NO. WL-508
FILE NO.

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- NOTE:**
- LANDING AT TOP OF RAMP SHALL NOT EXCEED 2% IN ANY DIRECTION AND SHALL BE A MINIMUM OF 60" x 60".
 - RAMP CROSS SLOPE SHALL NOT EXCEED 2% (AS MEASURED PERPENDICULAR TO PEDESTRIAN TRAFFIC FLOW).
 - TRUNCATED DOME MUST EXTEND THE FULL WIDTH OF THE RAMP AND COVER THE FIRST 2 FEET OF THE RAMP CLOSEST TO THE STREET.
 - TRANSITIONS FROM THE RAMP TO THE WALKWAY, GUTTER, AND STREET MUST BE FLUSH (LEVEL) AND FREE OF ABRUPT LEVEL CHANGES.
 - THE GUTTER OR ADJACENT ROADWAY MUST HAVE A SLOPE OF NO MORE THAN 5 PERCENT (1:20) TOWARD THE RAMP.
 - FLARED SIDES ("WING") OF THE CURB RAMP SHALL NOT EXCEED 10% IN SLOPE (8.33% IF PEDESTRIAN TRAVEL IS REQUIRED OVER THEM PER ADA STANDARDS - I.E. IF MINIMUM 48" x 48" (FOR EXISTING SITES ONLY). LANDING IS NOT PROVIDED AT TOP OF RAMP).
 - CONCRETE STRENGTH SHALL BE 3000 PSI.
 - PLACE CONTRACTION JOINTS AS SHOWN ABOVE.
 - NO ABOVE GROUND UTILITIES ARE PERMITTED WITHIN RAMP AREA.

PARALLEL CURB RAMP CURB TIGHT

DATE: 2010
DRAWING NO. WL-508C
FILE NO.

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DATE: 08/13/13 BY: [Signature]

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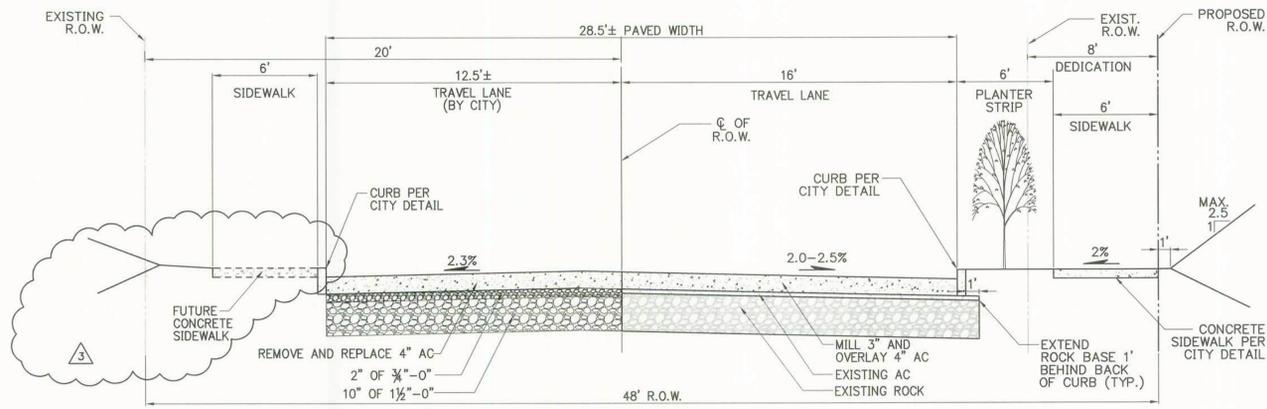
REVISIONS:

REVISION NO.	REVISIONS THIS SHEET	REVISION DELTA	CLOSING DATE
2		08/07/13	
3		09-04-13	

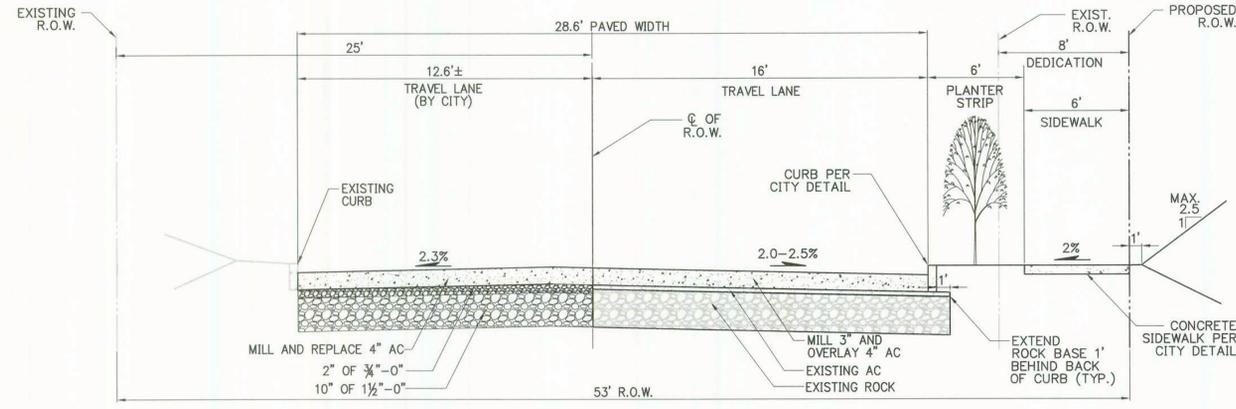
SHEET TITLE:
CITY STANDARD DETAILS

DRAWN BY: DETAILS
CHECKED BY:
SHEET:

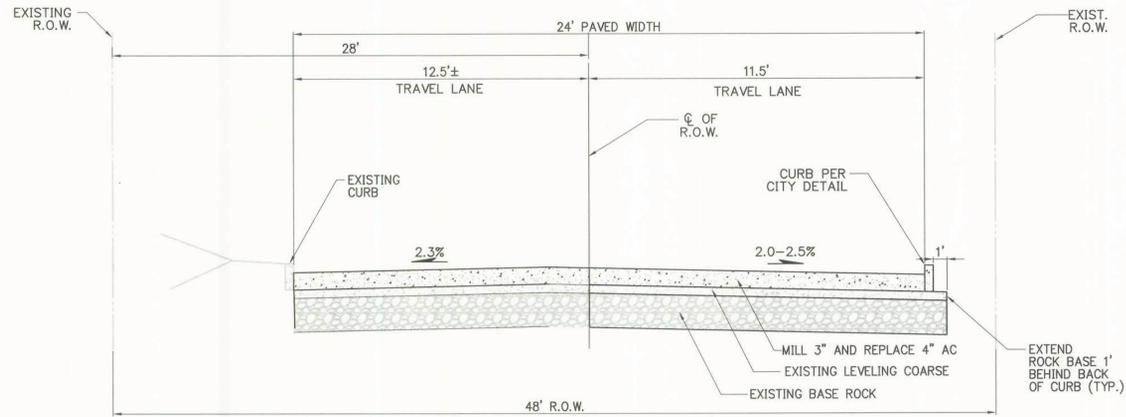
R5.2



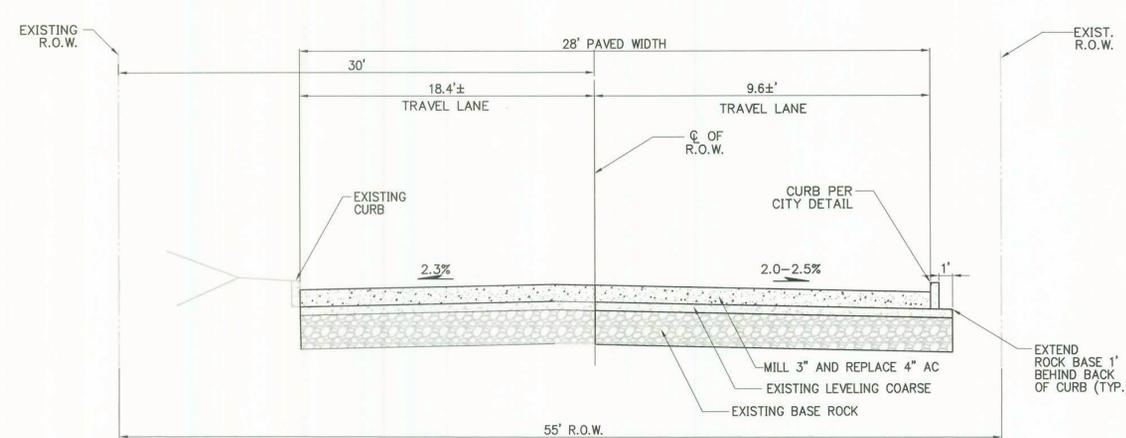
A
R5.3
13TH STREET SECTION
SCALE: N.T.S.



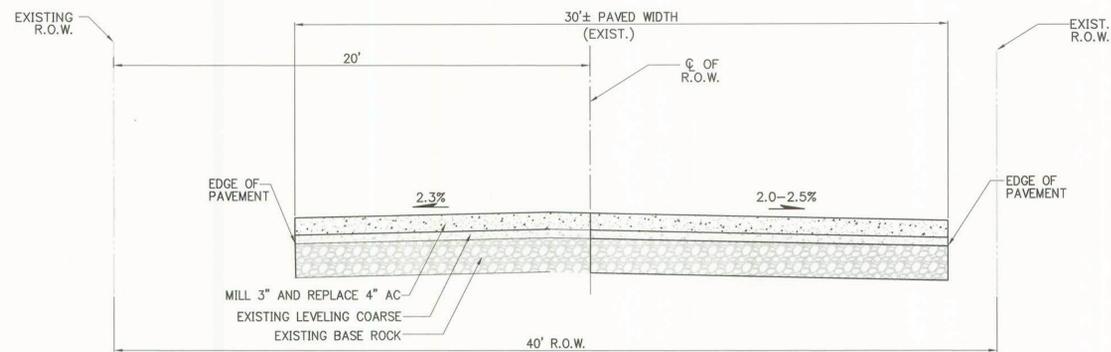
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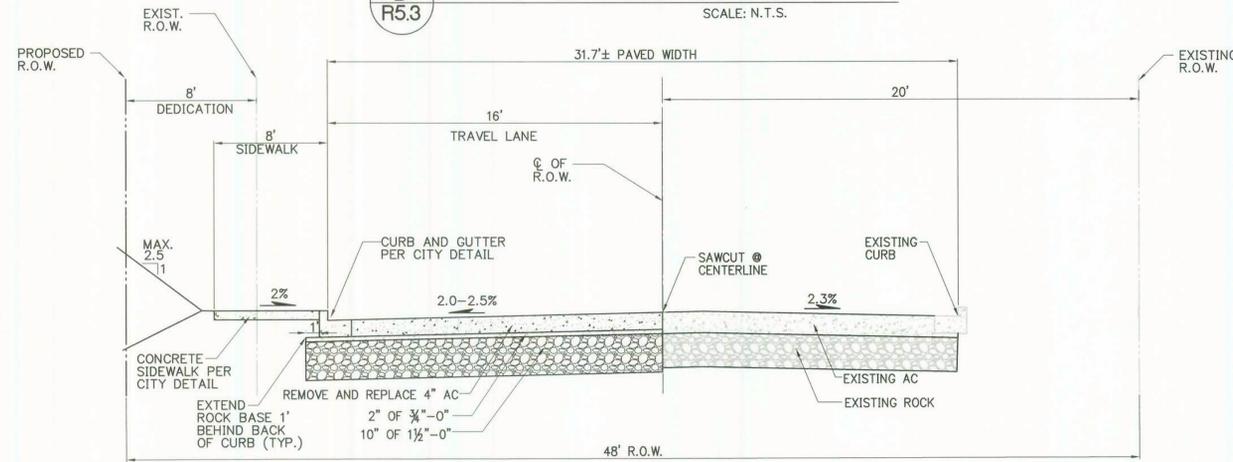
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13TH STREET SECTION
SCALE: N.T.S.



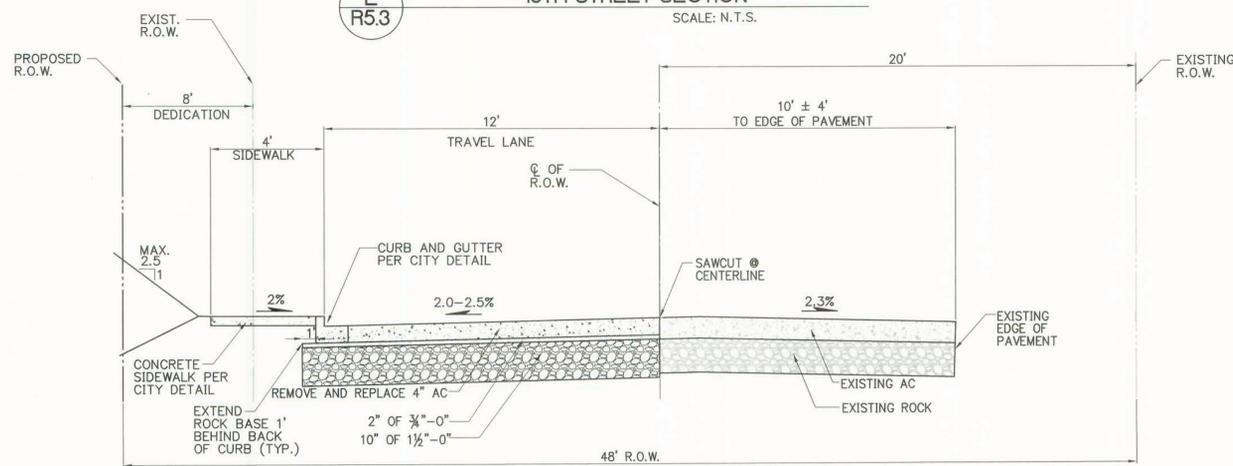
D
R5.3
13TH STREET SECTION
SCALE: N.T.S.



E
R5.3
13TH STREET SECTION
SCALE: N.T.S.



G
R5.3
8TH AVENUE SECTION
SCALE: N.T.S.



H
R5.3
8TH AVENUE SECTION
SCALE: N.T.S.

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2	X	08/07/13	
3	X	09-04-13	

SHEET TITLE:
STREET SECTIONS

DRAWN BY: BTS
CHECKED BY: RLF
SHEET:

R5.3

JOB NO. **2120180.00**

CCD #: 9/4/13
BID SET: 7/03/13

THE SURVEY INFORMATION SHOWN AS A BACKGROUND SCREEN ON THIS SHEET IS SHOWN FOR REFERENCE ONLY AND IS BASED ON A SURVEY BY WESTLAKE CONSULTANTS INC. DATE: 03/11/2011



NOT TO SCALE



MITIGATION: STRIPE PEDESTRIAN REFUGE IN PLACE OF NORTHBOUND LEFT-TURN LANE. INSTALL "NO LEFT TURN" SIGNAGE. EXTEND SOUTHBOUND LEFT-TURN LANE AT WILLAMETTE FALLS DRIVE.

1
R5.4

1
R3-2 WITH R10-20A PLAQUE V-LOK SYSTEM



GROUP
MACKENZIE
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DATE: 1.23.13
DRAWN BY: JRB
CHECKED BY: BJD
JOB NO: 2120180.00

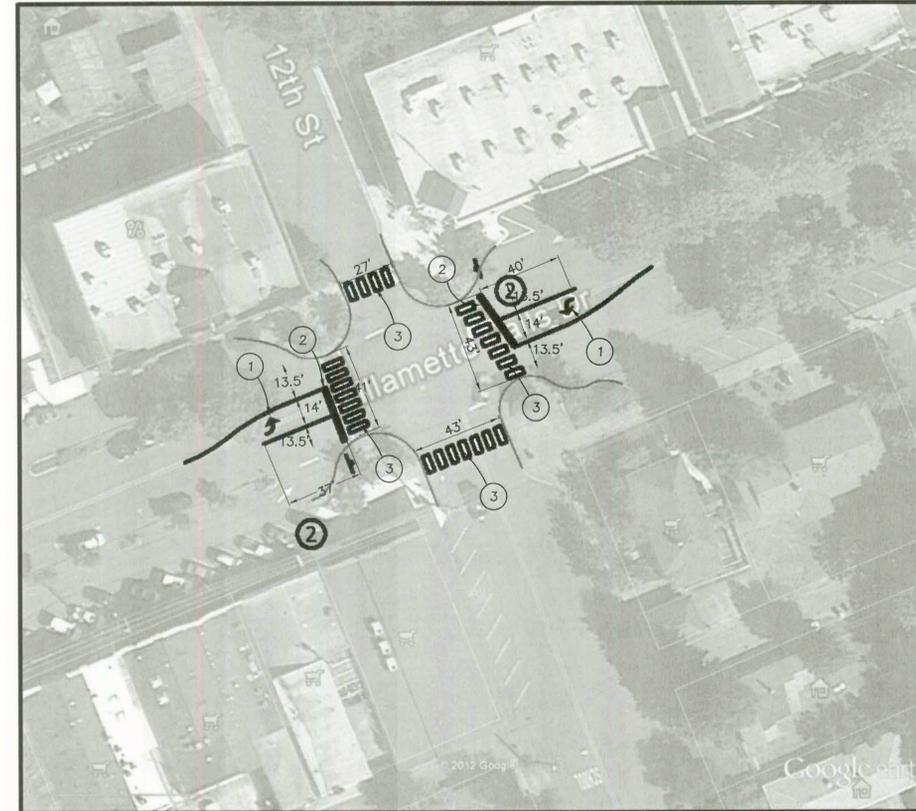
RECOMMENDED MITIGATION
10th STREET/8th AVENUE
WEST LINN POLICE STATION
WEST LINN, OREGON

FIGURE
1

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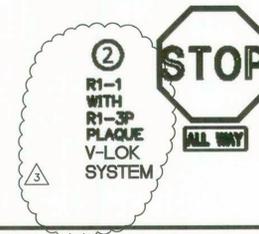


NOT TO SCALE



MITIGATION: STRIPE EAST/WESTBOUND LEFT-TURN LANE POCKETS. ADD EAST/WESTBOUND STOP SIGNS TO PROVIDE ALL-WAY STOP-CONTROL.

2
R5.4



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JOB NO: 2120180.00

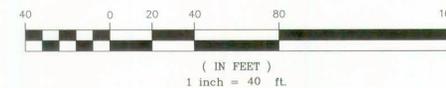
RECOMMENDED MITIGATION
WILLAMETTE FALLS DR/12th
WEST LINN POLICE STATION
WEST LINN, OREGON

FIGURE
2

KEYNOTES

- 1. LEFT TURN ARROW PER OREGON STANDARD DRAWING TM501, SHEET R5.5
- 2. STOP BAR PER OREGON STANDARD DRAWING TM503, SHEET R5.5
- 3. CROSS WALK PER OREGON STANDARD DRAWING TM503, SHEET R5.5
- 4. LEFT TURN CHANNELIZATION PER OREGON STANDARD DRAWING TM539, SHEET R5.6

•ALL STRIPING AND SIGNING ON THIS SHEET FOR REFERENCE ONLY WORK TO BE PERFORMED BY CITY CREWS, DO NOT INCLUDE PRICE IN BID.



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DATE: 01/22/13 BY: EFW/CK/le

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SHEET TITLE:
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SHEET:

R5.4

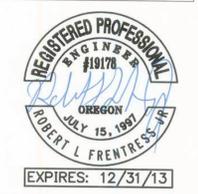
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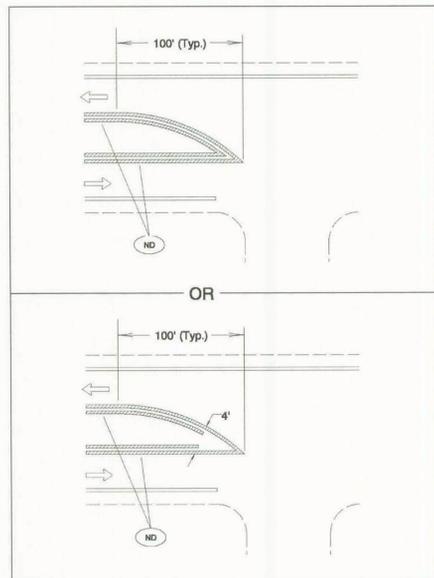
SHEET TITLE:
TRAFFIC IMPROVEMENT DETAILS

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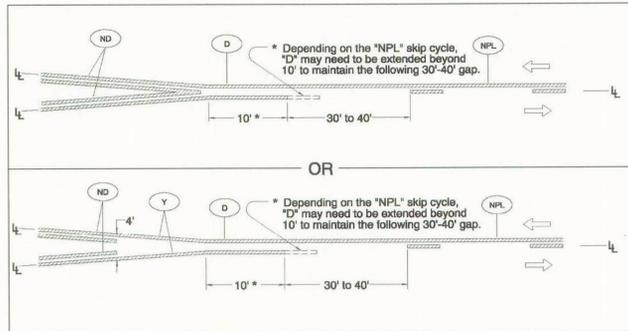
R5.5
 JOB NO. **2120180.00**

TM539.dgn 12/18/2012

6639WL



MEDIAN BULLNOSE DETAIL



MEDIAN WIDTH TRANSITION
(TWO NARROW DOUBLE YELLOW LINES TO ONE-DIRECTION NO-PASSING LINE)

To be accompanied by Standard Dwg. Nos. TM500 thru TM503

SCALE BOOK NO.	N/A	BASELINE REPORT DATE	12/18/2011
NOTE: All materials and workmanship shall be in accordance with the current Oregon Standard Specifications			
OREGON STANDARD DRAWINGS			
MEDIAN AND LEFT TURN CHANNELIZATION DETAILS			
2008			
DATE	REVISION DESCRIPTION		
1/2009	Modified "median width transition" detail dimensions		
7/2011	Added alternate detail for Median Subtype Detail		
10/2011	Added legend for lane line		

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

LEGEND

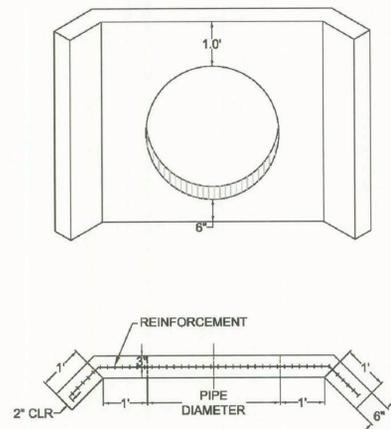
- Increasing stationing from left to right
- Direction of Travel
- Lane line dimensions are shown on the striping plans

R:\SIGNING-STRIPING\PAVEMENT MARKINGS\STANDARD DRAWINGS\13 Jon\plotfile_TMS00s.dgn 11 Default 12/18/2012 2:48:41 PM hwy=30c

Effective Date: June 1, 2013 - November 30, 2013

TM539

THIS DETAIL DRAWING SHALL NOT BE ALTERED OR CHANGED IN ANY MANNER EXCEPT BY THE CITY ENGINEER. IT IS THE RESPONSIBILITY OF THE USER TO ACQUIRE THE MOST CURRENT VERSION OF THE DETAIL.



NOTE:

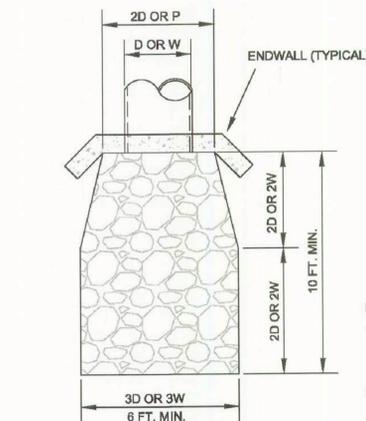
- USE CONCRETE HAVING A 28 DAY DESIGN STRENGTH OF 3300 PSI.
- OUTLET WING WALL SHALL BE USED FOR ALL OUTFALL PIPES FROM 10" TO 36".
- THIS DETAIL REPRESENTS THE MINIMUM REQUIREMENT. THE NEED FOR ADDITIONAL STEEL, A FOOTING AND DRAINAGE BEHIND THE WALL SHALL BE INVESTIGATED BY THE DESIGN ENGINEER.
- FOR PIPES LARGER THAN 33" OR MULTIPLE PIPE OUTLETS, USE DETAIL WL-612.
- CONCRETE REINFORCEMENT SHALL CONSIST OF:
 - A) ADDING A POLY-FIBER MESH TO THE CONCRETE MIX OR
 - B) USE (2) #4 BARS ABOVE AND BELOW PIPE AND #4 BARS AT 6" O.C. VERTICALLY.

OUTLET HEADWALL
(FOR OUTLET PIPES OF 10' TO 33')



DATE: 2010
DRAWING NO. WL-613
FILE NO.

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D = PIPE DIAMETER
W = BOTTOM WIDTH OF CHANNEL
P = WETTED PERIMETER OF CHANNEL

DESIGN VELOCITY FT./SEC	ROCK CLASSIFICATION BY WEIGHT
6 - 10	200 LBS.
10 - 12	1/4 TON
12 - 14	1/2 TON
14 - 16	1 TON
16 - 18	2 TON

SELECTION OF RIP RAP
(SEE NOTE 1)

NOTE:

- DIMENSIONS FOR RIP RAP APPLY TO FLOWS
 - < 2 CFS RIP RAP FOR FLOWS
 - > 2 CFS MUST BE DESIGNED BY AN ENGINEER
 - FLOWS > 20 FPS SHALL USE ENERGY DISSIPATOR
- TYPE OF RIP RAP
 - A. REGULAR QUARRY STONE CLASS 50-200
 - B. COBBLESTONE
 - C. CONCRETE (ONLY ALLOWED UPON APPROVAL OF THE CITY)
- PLACEMENT
 - A. MINIMUM DEPTH = 1 1/2 TIMES AVERAGE STONE SIZE.
 - B. ROCKS SHALL BE PLACED TO PROVIDE A MINIMUM OF VOIDS.
 - C. SURFACE ROCKS OR CONCRETE SHALL PROTRUDE AT LEAST 1/2 THEIR VERTICAL DIMENSION.
 - D. RIP RAP IS TO BE PLACED OVER A NATURAL BEDDING, OR IT MAY BE GROUTED OR PLACED OVER A GRAVEL BEDDING AS REQUIRED BY THE CITY.

STORM SEWER OUTFALL



DATE: 2010
DRAWING NO. WL-614
FILE NO.

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DATE: 9/4/13 BY: [Signature]

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REVISIONS:
REVISION # DELTA REVISION DESCRIPTION CLOSING DATE

2	08/07/13	
3	09-04-13	

SHEET TITLE:
TRAFFIC IMPROVEMENT DETAILS

DRAWN BY:
CHECKED BY:
SHEET:

R5.6

JOB NO. 2120180.00

CCD #1: 9/4/13
BID SET: 7/03/13