

APPROVED PLAN

City of West Linn  
Building Department

DATE: 5-28-13  
BY: Dan W. Davis

THIS PLAN REVIEW APPROVAL DOES NOT PREVENT THE FIELD INSPECTOR FROM REQUIRING FURTHER CODE CORRECTIONS.

# STUDENT PARKING LOT IMPROVEMENT PLANS FOR WEST LINN HIGH SCHOOL CITY OF WEST LINN, OREGON PERMIT DRAWINGS

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 approval does not prevent the City from requiring further code corrections.

CIVIL ABBREVIATIONS

SYMBOL	DESCRIPTION
CS	CONCRETE
EX	EXISTING GROUND
FIN	FINISHED GROUND
FL	FLOOR FINISH
FS	FINISHED SURFACE
G	GUTTER / GAB
H	HORIZONTAL
IE	INVERT ELEVATION
L	LENGTH
LF	LINEAL FEET
NTS	NOT TO SCALE
S	SLOPE
SD	STORM DRAIN
SDCB	STORM DRAIN CATCH BASIN
SMH	STORM DRAIN MANHOLE
TC	TOP OF CURB
TF	TOP OF FOOTING
TP	TOP OF PIPE
TW	TOP OF WALL
TYP	TYPICAL
V	VERTICAL
W	WATER

### LOCAL AGENCY EROSION CONTROL NOTES:

- ALL EROSION, SEDIMENT, AND POLLUTION CONTROL PLAN (ESCP) MEASURES SHALL BE INSTALLED AS PER THE DETAIL DRAWINGS IN THE CITY OF WEST LINN EROSION PREVENTION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.
- PRIOR TO ISSUANCE OF A SITE GRADING DEVELOPMENT PERMIT TEMPORARY ESCP MEASURES SHALL BE INSTALLED, INSPECTED, AND APPROVED BY A CITY OF WEST LINN INSPECTOR BEFORE STARTING GROUND DISTURBING ACTIVITIES. CONTACT THE CITY AT 503-722-5509 24 HOURS IN ADVANCE FOR AN INSPECTION.
- ESCP MEASURES SHALL NOT BE REMOVED UNTIL PERMANENT LANDSCAPING HAS BEEN INSTALLED AND FINAL INSPECTION HAS BEEN REQUESTED AND APPROVED BY A CITY OF WEST LINN INSPECTOR.
- INSPECTIONS MAY BE REQUESTED BY TELEPHONING CITY OF WEST LINN ONE DAY PRIOR TO THE TIME OF INSPECTION.
- APPROVAL OF THIS ESCP PLAN DOES NOT CONSTITUTE APPROVAL OF PERMANENT OR DRAINAGE DESIGN (I.E. SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.)
- THE IMPLEMENTATION OF THIS ESCP AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESCP FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.
- STABILIZED 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.
- THE BOUNDARIES OF THE CLEARING LIMITS SHALL BE CLEARLY FLAGGED IN THE FIELD AND MARKED WITH SIGNS PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE APPLICANT/CONTRACTOR FOR THE DURATION OF THE CONSTRUCTION.
- THE ESCP FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESCP FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.
- THE ESCP FACILITIES SHALL BE INSPECTED DAILY BETWEEN OCTOBER 1 AND APRIL 30 BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING. ALL INSPECTIONS SHALL BE NOTED IN AN INSPECTION LOG WHICH SHALL BE MADE AVAILABLE TO THE CITY OF WEST LINN INSPECTOR UPON REQUEST.
- ESCP FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF EVERY TWO WEEKS OR WITHIN 24 HOURS FOLLOWING A STORM EVENT.
- A SIGN WITH THE CITY OF WEST LINN'S EROSION CONTROL HOTLINE NUMBER, PROJECT ADDRESS, AND PERMIT NUMBER SHALL BE POSTED AT A LOCATION CLEARLY VISIBLE FROM THE RIGHT OF WAY AND MAINTAINED UNTIL PROJECT COMPLETION.
- EXPOSED SOILS THAT REMAIN UNWORKED FOR 14 DAYS OR MORE SHALL BE IMMEDIATELY PROTECTED BY APPROPRIATE GROUND COVER. DISTURBED LAND THAT WILL REMAIN UNWORKED FOR 2 MONTHS OR LONGER SHALL ALSO BE SEEDED WITH AN APPROVED SEED MIXTURE.
- PUBLIC STREETS WILL BE SWEEPED DAILY, IF NECESSARY, TO ALLEVATE SEDIMENT DISCHARGE TO THE STORM WATER MANAGEMENT SYSTEM. UNFILTERED WASH WATER CANNOT BE DISCHARGED TO STORM DRAINS.
- ALL EROSION CONTROL SEEDING FOR SITE STABILIZATION WILL BE PERFORMED NO LATER THAN SEPTEMBER 1ST TO ALLOW TIME FOR VEGETATIVE ESTABLISHMENT PRIOR TO THE ONSET OF THE WET WEATHER SEASON.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THEY ARE NO LONGER NEEDED.
- TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON SITE. DISTURBED SOIL AREAS RESULTING FROM REMOVAL SHALL BE REPAIRED AND PROTECTED WITH ADEQUATE GROUND COVER (2" STRAW, COMPOST, MULCH, ETC.).
- SEEDING SHALL BE SUPPLIED WITH ADEQUATE MOISTURE. SUPPLY WATER AS NEEDED. WATER SHOULD BE CONTROLLED TO PREVENT RUNOFF AREAS WHICH FAIL TO ESTABLISH VEGETATIVE COVER ADEQUATE TO PREVENT EROSION SHALL BE RESEED AS SOON AS AREAS ARE IDENTIFIED.
- DISBURBED AREAS OF SLOPE GREATER THAN 2:1 WILL BE STABILIZED THROUGH SEEDING AND THE INSTALLATION OF NORTH AMERICAN GREEN SODIUM MATING OR EQUIVALENT PRODUCT.
- THE PROPOSED EROSION CONTROL MEASURES ARE A MINIMUM BEST MANAGEMENT PRACTICE. THE CONTRACTOR MAY BE REQUIRED TO MAKE ADDITIONAL EROSION CONTROL MEASURES TO ENSURE THAT NO SEDIMENT LADEN WATER EXISTS THE SITE OR ENTERS THE EXISTING STORMWATER SYSTEM.
- IN THE CASE OF STABILIZATION SEEDING AND PLANTINGS FOR SWALES & SLOPES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO SEQUENCE THE WORK SUCH THAT THE PLANTINGS ARE ESTABLISHED AS EARLY AS POSSIBLE PRIOR TO OCTOBER 1.
- CONTRACTOR SHALL DESIGNATE AN ON-SITE EROSION & SEDIMENT CONTROL INSPECTOR AND SHALL SUBMIT THE NAME TO THE OWNER'S REPRESENTATIVE FOR SUBMITTAL TO DEQ AS PART OF THE DEQ 1200-C PERMIT REQUIREMENTS.
- AN EROSION AND SEDIMENT CONTROL PERMIT HAS BEEN APPLIED FOR THROUGH THE OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY (DEQ 1200-C PERMIT). CONTRACTOR IS RESPONSIBLE FOR ADMINISTRATION AND CONFORMANCE OF ALL EROSION AND SEDIMENT CONTROL REQUIREMENTS STIPULATED IN THIS PERMIT INCLUDING MAINTENANCE & MONITORING.

### OWNER

WEST LINN-WILSONVILLE SCHOOL DISTRICT  
2755 SW BURLAND ROAD  
TUALATIN, OR 97062  
(503) 673-7976

### CIVIL ENGINEER

GHD INC.  
15575 SW SEQUOIA PARKWAY, SUITE 140  
PORTLAND, OR 97224  
(503) 226-3921

### LANDSCAPE ARCHITECT

WALKER-HAY  
111 SW OAK STREET, SUITE 200  
PORTLAND, OR 97204  
(503) 228-3122

### STRUCTURAL ENGINEER

DAVID BUGH & ASSOCIATES  
30625 SE KOWAL RD  
ESTACADA, OR 97023  
(503) 830-3538

### ELECTRICAL ENGINEER

PAE CONSULTING ENGINEERS, INC.  
808 SW 3RD STREET, SUITE 300  
PORTLAND, OR 97204  
(503) 226-3921

### GENERAL GRADING NOTES

- SURVEY OF EXISTING CONDITIONS PREPARED BY GOMPHUS ENGINEERING. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL SURVEY DATA. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING RIGHT-OF-WAY LINES, SLOPE EASEMENTS, AND ALL HORIZONTAL AND VERTICAL CONTROL PRIOR TO CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION STAKING AND SHALL ARRANGE FOR STAKING WITH A LICENSED SURVEYOR. STAKING WILL BE REVIEWED BY OWNER FOR CONFORMANCE TO DESIGN PRIOR TO CONSTRUCTION.
- ALL GRADES BETWEEN SPOT ELEVATIONS SHALL HAVE UNIFORM SLOPE UNLESS OTHERWISE INDICATED. MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL BUILDING WALLS AND DOORS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL CONSTRUCTION. ADEQUATE SHORING, BRACING, TIES, AND SUPPORTS SHALL BE USED TO PROVIDE PROPER TEMPORARY INCLINATION DURING ALL PHASES OF CONSTRUCTION.
- ALL EXISTING LANDSCAPED AND UNPAVED AREAS WHICH ARE DISTURBED BY CONSTRUCTION OR CARPENTRY OPERATIONS SHALL BE HAND RAKED SMOOTH AND RETURNED TO ORIGINAL EXISTING CONDITIONS. DISTURBED LANDSCAPED AREAS SHALL RECEIVE BARK DUST AND REPLACEMENT PLANTINGS. DISTURBED NATURAL AREAS SHALL BE HYDROSEED TO REPLACE NATIVE COVER. DISTURBED GRAVEL AREAS SHALL RECEIVE REPLACEMENT GRAVEL OR CRUSHED ROCK SURFACING.
- ALL DITCHES, SWALES, CUTTERS, ETC. SHOULD BE CONSIDERED ACTIVE STORM CONVEYANCES UNLESS OTHERWISE INDICATED. CONTRACTOR IS RESPONSIBLE FOR ADDRESSING STORM WATER DRAINAGE AND DENATURING OF WORK AREAS DURING CONSTRUCTION.
- DURING WET WEATHER PERIODS, CONTRACTOR IS RESPONSIBLE FOR SEQUENCING CONSTRUCTION IN A MANNER TO MINIMIZE IMPACT ON OPEN EARTHWORK AND COMPACTION OPERATIONS.
- ALL EXISTING MONUMENTS SHALL BE PROTECTED DURING CONSTRUCTION. IF ANY MONUMENTS ARE DISTURBED OR DESTROYED DURING CONSTRUCTION, CONTRACTOR SHALL RETURN THE SERVICES OF A REGISTERED LAND SURVEYOR TO RESTORE THE MONUMENT TO ITS ORIGINAL CONDITION AND FILE THE NECESSARY SURVEYS AS REQUIRED BY STATE LAW.
- COMPLETELY COVER ANY SOIL STOCKPILES WITH 6 MIL BLACK PLASTIC AND PROVIDE RESTRAINTS TO HOLD PLASTIC IN PLACE. MONITOR PLASTIC COVER AS PART OF CONTINUOUS EROSION CONTROL PLAN. PLACE SILT FENCE COMPLETELY AROUND STOCKPILE.
- A GRADING PERMIT MUST BE OBTAINED PRIOR TO ANY GRADING ACTIVITIES TAKING PLACE.

### GENERAL EROSION CONTROL NOTES

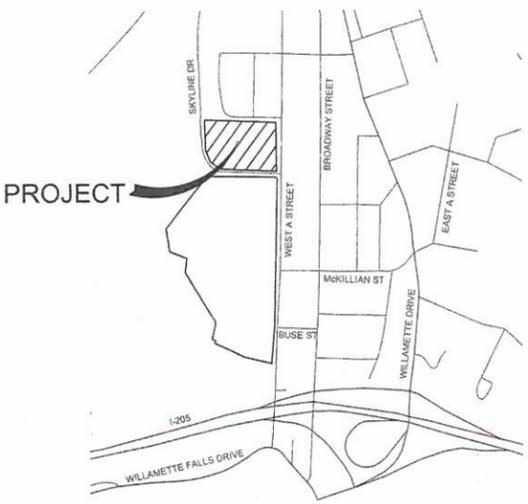
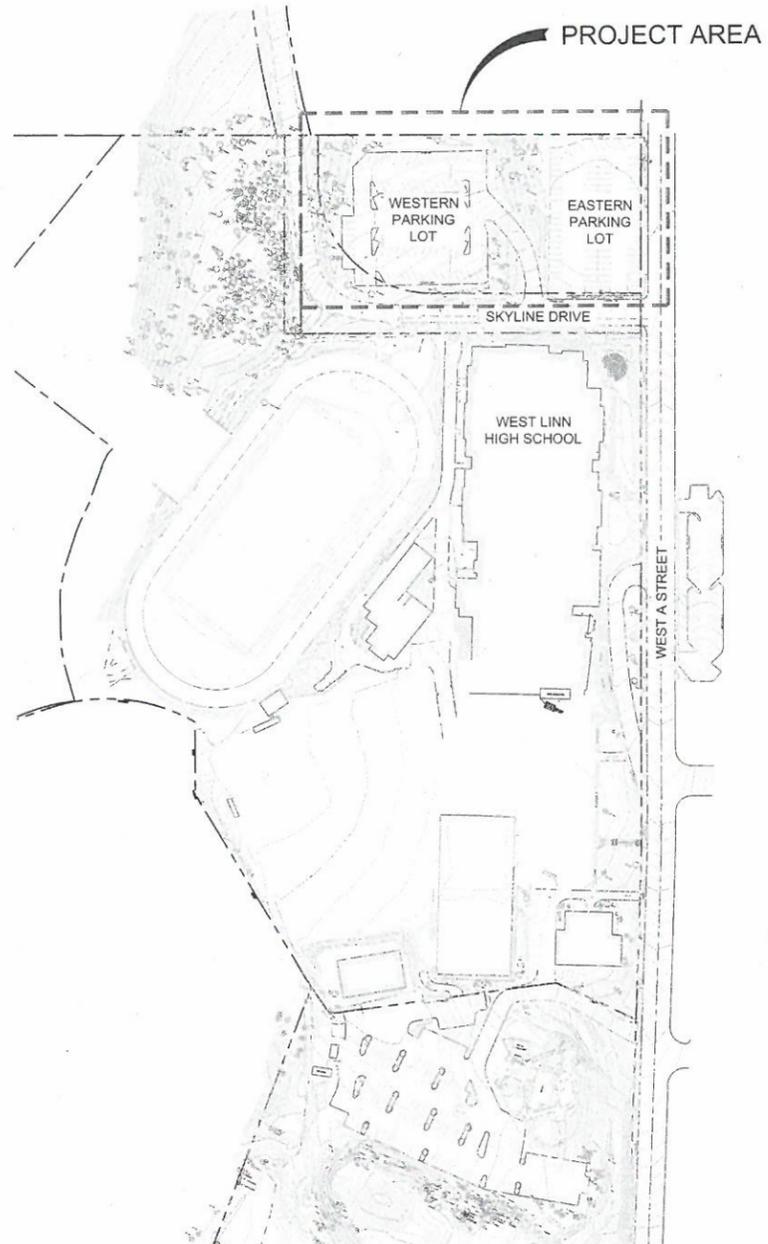
- THE PROPOSED EROSION CONTROL MEASURES ARE A MINIMUM BEST MANAGEMENT PRACTICE. THE CONTRACTOR MAY BE REQUIRED TO TAKE ADDITIONAL EROSION CONTROL MEASURES TO ENSURE THAT NO SEDIMENT LADEN WATER EXISTS THE SITE OR ENTERS THE EXISTING STORMWATER SYSTEMS. THE CONTRACTOR MAY ALSO BE DIRECTED BY THE CITY ENGINEER, CITY INSPECTOR, OR PROJECT ENGINEER TO CONTROL DUST AND AIRBORNE EROSION.
- PRIOR TO COMMENCEMENT OF GRADING ACTIVITY AND AFTER INSTALLATION OF EROSION CONTROL MEASURES, CONTRACTOR IS TO CONTACT THE CITY OF WEST LINN FOR THEIR SITE REVIEW AND APPROVAL.
- ALL EROSION CONTROL PERMITS MUST BE OBTAINED PRIOR TO ANY GRADING ACTIVITIES TAKING PLACE.

### GENERAL DEMOLITION NOTES

- DEMOLITION REQUIREMENTS SHOWN ON THESE DRAWINGS ARE INTENDED TO ILLUSTRATE THE GENERAL SCOPE OF DEMOLITION AND ARE GENERALLY DIAGNAMMATIC. THEY DO NOT IDENTIFY EVERY ELEMENT TO BE REVISED. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING A DETAILED SCOPE OF DEMOLITION FROM OWNER AND FROM EXAMINATION OF EXISTING SITE CONDITIONS.
- CONTRACTOR SHALL SUBMIT A DEMOLITION PLAN, PRIOR TO CONSTRUCTION, OUTLining ALL ITEMS TO BE REMOVED.
- DEMOLISHED ITEMS SHALL BE REMOVED FROM THE SITE EXCEPT THOSE ITEMS IDENTIFIED AS "TO REMAIN," "SAVE AND PROTECT," OR "SALVAGE FOR OWNER".
- ALL LINES THAT ARE CUT AT THE LIMITS OF DEMOLITION OR POINT OF DISCONNECTION WITHIN THE WORK AREA SHALL BE CAPPED OR PLUGGED WATER TIGHT TO CITY'S OR OWNER'S APPROVAL.
- DEMOLITION PERMIT MUST BE OBTAINED AND APPROPRIATE EROSION CONTROL MEASURES IN PLACE PRIOR TO ANY DEMOLITION ACTIVITIES TAKING PLACE.

### ATTENTION EXCAVATORS

OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 852-001-0010 THROUGH OAR 852-001-0090. YOU MAY OBTAIN COPIES OF THESE RULES FROM THE CENTER BY CALLING 503-232-1987. IF YOU HAVE ANY QUESTIONS ABOUT THE RULES, YOU MAY CONTACT THE CENTER. YOU MUST NOTIFY THE CENTER AT LEAST TWO BUSINESS DAYS BEFORE COMMENCING ANY EXCAVATION. CALL 503-246-8599.



1 SITE MAP  
SCALE: 1"=100'-0"

VICINITY MAP

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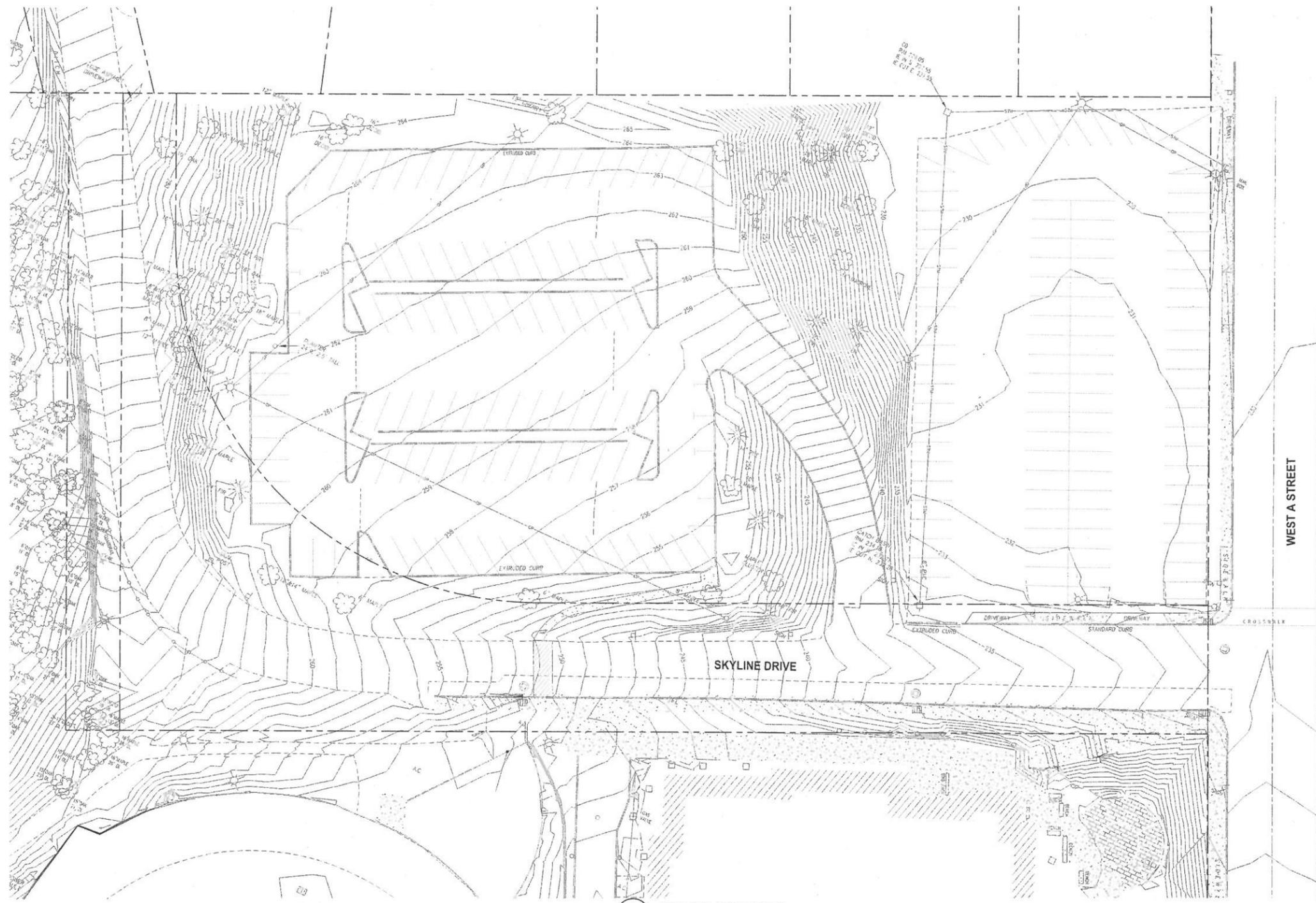
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WEST LINN WILSONVILLE SCHOOL DISTRICT  
WEST LINN HIGH SCHOOL  
STUDENT PARKING LOT IMPROVEMENTS  
COVER SHEET

PROJ NO: 11456-11009  
DRWN: PRK CHD: STS

C1.1

SHEET OF



**SURVEY NOTES**

1. TOPOGRAPHIC FEATURES SHOWN ON THIS MAP WERE LOCATED USING STANDARD PRECISION TOPOGRAPHIC MAPPING PROCEDURES. THIRD PARTY USERS OF DATA FROM THIS MAP PROVIDED VIA AUTOCAD DRAWING FILES OR DATA EXCHANGE FILES SHOULD NOT RELY ON ANY AUTOCAD GENERATED INFORMATION WHICH IS BEYOND THE LIMITS OF PRECISION OF THIS MAP. THIRD PARTIES, USING DATA FROM THIS MAP IN AN AUTOCAD FORMAT, SHOULD VERIFY ANY ELEMENTS REQUIRING PRECISE LOCATIONS PRIOR TO COMMENCEMENT OF ANY CRITICAL DESIGN OR CONSTRUCTION. CONTACT COMPASS ENGINEERING FOR FURTHER INFORMATION. FURTHERMORE, COMPASS ENGINEERING WILL NOT BE RESPONSIBLE NOR HELD LIABLE FOR ANY DESIGN OR CONSTRUCTION RELATED PROBLEMS THAT ARISE OUT OF THIRD PARTY USAGE OF THIS MAP (IN AUTOCAD OR OTHER FORMAT) FOR ANY PURPOSE OTHER THAN SPECIFICALLY STATED HEREIN. THIS STATEMENT IS AN OFFICIAL PART OF THIS MAP.
2. THE LOCATION OF UTILITIES (SANITARY SEWER, WATER, NATURAL GAS, AND ELECTRICITY) SERVING THIS PROPERTY ARE BASED UPON FIELD MARKINGS MADE BY THE LOCAL UTILITY AGENTS AND RECORD INFORMATION THEY HAVE PROVIDED. COMPASS CORPORATION MAKES NO WARRANTIES WITH REGARDS TO THE ACCURACY OR COMPLETENESS OF DATA SHOWN. ADDITIONAL UTILITIES MAY EXIST.
3. THE STORM SEWER FEATURES (MANHOLES, CATCH BASINS AND DRAINS) WERE FIELD TIED. THE UNDERGROUND PIPELINES CONNECTING THESE FEATURES WERE DRAWN USING FIELD DATA.
4. THE LOCATION OF BUILDINGS SHOWN ON THIS SURVEY ARE BASED UPON FIELD MEASUREMENTS TAKEN AT THE BUILDING FACE.
5. CONTOUR INTERVALS ARE 1 FOOT.
6. BOUNDARY IS PER P.S. 17363 AND P.S. 17653, CLATSOP COUNTY SURVEY RECORDS. BASIS OF BEARINGS FOR THIS PROJECT ARE ASSUMED "NORTH" FROM POINT NUMBER 4 TO POINT NUMBER 1.

1 EXISTING CONDITIONS  
C1.2/C1.2 SCALE: 1"=20'-0"



**SURVEY LEGEND**

- CATCH BASIN
- CLEANOUT
- FIRE HYDRANT
- LIGHT POLE
- POWER POLE
- STM MH
- WATER METER
- WATER VALVE
- SPRINKLER
- CURB
- OVERHEAD POWER
- EDGE OF PAVEMENT
- FENCE, CHAIN LINK UNLESS NOTED OTHERWISE
- EDGE OF GRAVEL
- STORM LINE
- GAS LINE
- SANITARY SEWER LINE
- UNDERGROUND POWER

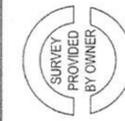


**COMPASS ENGINEERING**  
ENGINEERING SURVEYING PLANNING  
664 S.E. LANE ROAD  
MILWAUKEE, OREGON 97228  
www.compass-engineering.com  
(503) 653-9000 PHONE  
(503) 653-9025 FAX

1" = 20'-0" 20' 0 20' 40' 60'



GHD Inc.  
15575 SW Sequoia Parkway Suite 140 Portland Oregon 97224 USA  
T 503 226 3921 F 503 226 3926  
W www.ghd.com



BASED ONE INCH ON ORIGINAL DRAWING  
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	03/06/2013			

**WEST LINN WILSONVILLE SCHOOL DISTRICT  
WEST LINN HIGH SCHOOL  
STUDENT PARKING LOT IMPROVEMENTS  
EXISTING CONDITIONS**

PROJ NO: 11456-11009

DRWN: CHKD:

**C1.2**

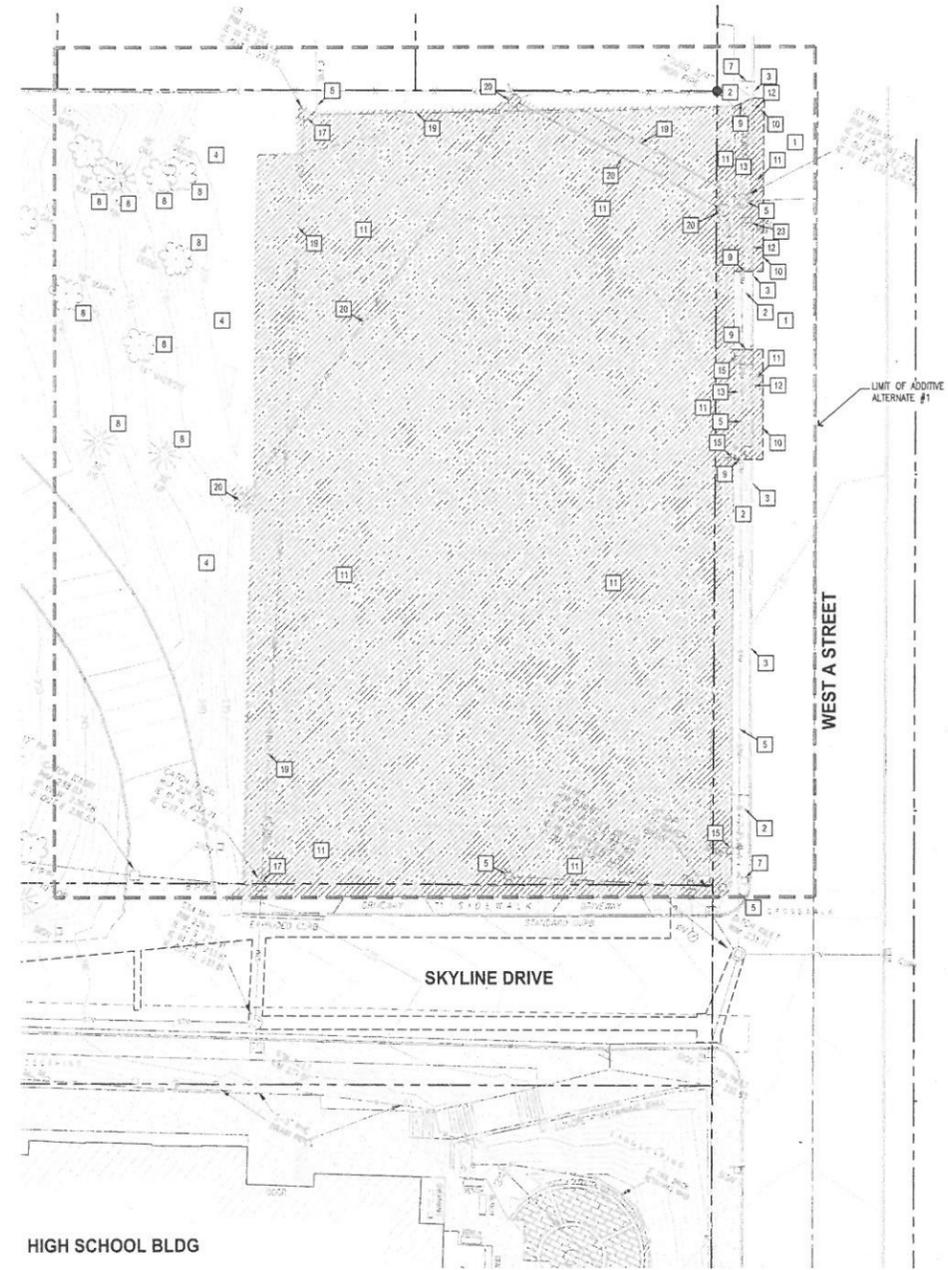
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**DEMOLITION NOTES**

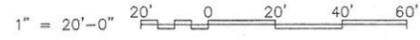
- 1 SAVE AND PROTECT EXISTING ASPHALT THROUGHOUT CONSTRUCTION ACTIVITIES.
- 2 SAVE AND PROTECT EXISTING CONCRETE THROUGHOUT CONSTRUCTION ACTIVITIES.
- 3 SAVE AND PROTECT EXISTING CURB THROUGHOUT CONSTRUCTION ACTIVITIES.
- 4 SAVE AND PROTECT EXISTING LANDSCAPING THROUGHOUT CONSTRUCTION ACTIVITIES.
- 5 SAVE AND PROTECT EXISTING UTILITY THROUGHOUT CONSTRUCTION ACTIVITIES.
- 6 REMOVE EXISTING STORM PIPE.
- 7 SAVE AND PROTECT EXISTING SIGN THROUGHOUT CONSTRUCTION ACTIVITIES.
- 8 SAVE AND PROTECT EXISTING TREE DURING CONSTRUCTION.
- 9 SAWCUT EXISTING CONCRETE.
- 10 SAWCUT EXISTING A.C. PAVING.
- 11 DEMOLISH AND REMOVE EXISTING ASPHALT PAVING SECTION. EXCAVATE TO ADEQUATE SUBGRADE TO PROVIDE COMPLETE NEW PAVING SECTION AS DETAILED. REMOVE ALL ASPHALT WITHIN DEMOLITION LIMITS AND DISPOSE OF OFF-SITE.
- 12 DEMOLISH AND REMOVE EXISTING CONCRETE CURB & GUTTER AND DISPOSE OF OFF-SITE.
- 13 DEMOLISH AND REMOVE EXISTING CONCRETE SIDEWALK AND DISPOSE OF OFF-SITE.
- 14 REMOVE EXISTING CATCH BASIN AND DISPOSE OF OFF-SITE. SAVE AND PROTECT EXISTING STORM PIPE FOR CONNECTION TO NEW CATCH BASIN.
- 15 REMOVE EXISTING SIGN. SALVAGE SIGN FOR RE-INSTALLATION.
- 16 REMOVE EXISTING TREE AND DISPOSE OF OFF-SITE.
- 17 REMOVE EXISTING CATCH BASIN AND DISPOSE OF OFF-SITE.
- 18 CUT AND CAP EXISTING STORM LINE.
- 19 REMOVE EXISTING STORM PIPE AND DISPOSE OF OFF-SITE.
- 20 SEE ELECTRICAL PLANS FOR DEMOLITION OF ELECTRICAL COMPONENTS.
- 21 REMOVE EXISTING EXTRUDED CURB AND DISPOSE OF OFF-SITE.
- 22 REMOVE EXISTING SIGN AND DISPOSE OF OFF-SITE.
- 23 REMOVE EXISTING MAILBOX. SALVAGE MAILBOX FOR RE-INSTALLATION.

- ELEMENTS TO BE DEMOLISHED AND REMOVED



**1**  
**ADDITIVE ALTERNATE #1**  
**DEMOLITION PLAN**  
 SCALE: 1"=20'-0"

**GENERAL NOTE**  
 ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THE CITY OF WEST LINN PUBLIC WORKS STANDARD CONSTRUCTION SPECIFICATIONS AND DETAILS.



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 GHD Inc.  
 15575 SW Sequoia Parkway Suite 140 Portland Oregon 97224 USA  
 T 1 503 226 3921 F 1 503 226 3926  
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**PROFESSIONAL SEAL**  
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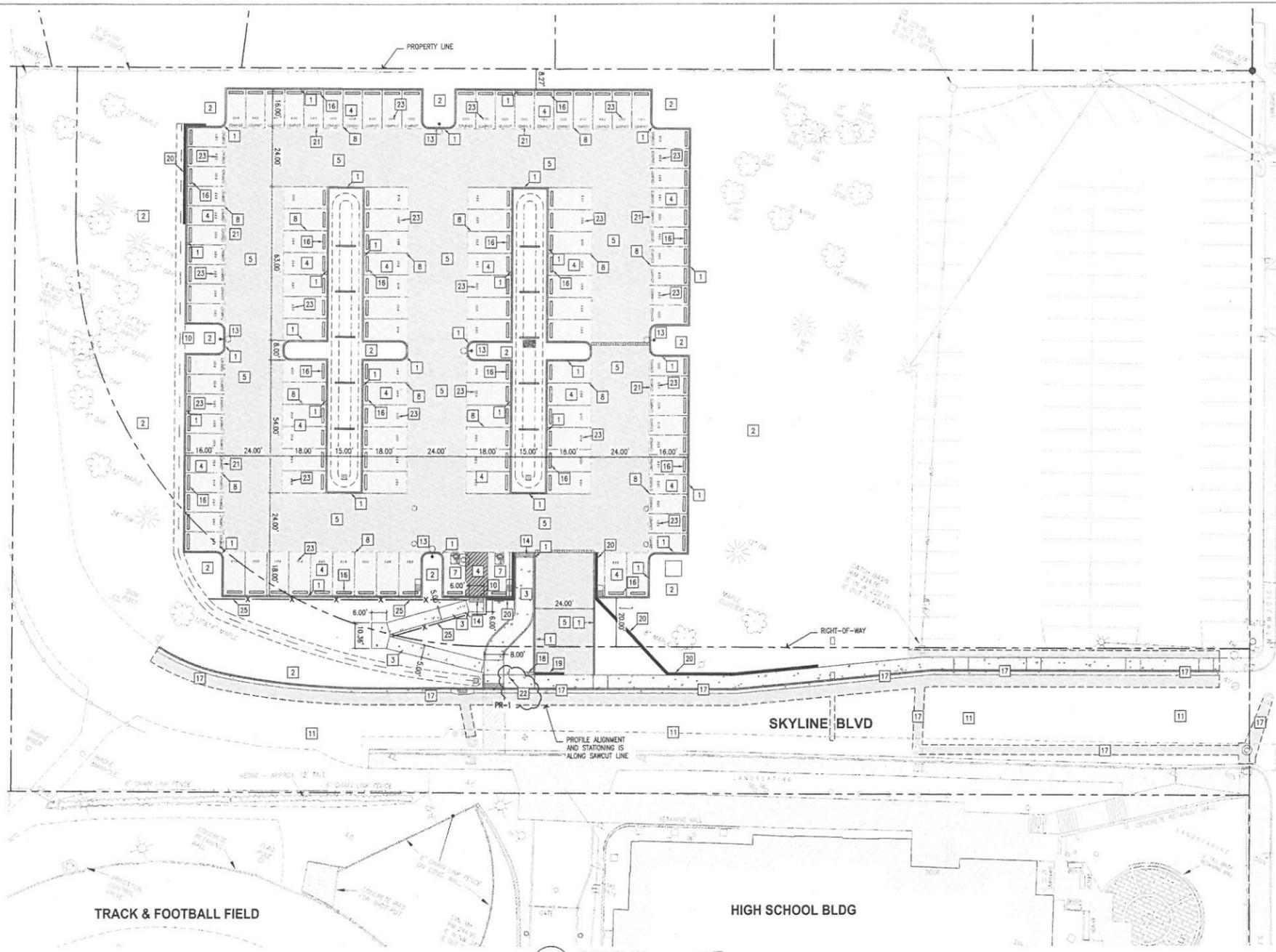
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**WEST LINN WILSONVILLE SCHOOL DISTRICT**  
**WEST LINN HIGH SCHOOL**  
**STUDENT PARKING LOT IMPROVEMENTS**  
**DEMOLITION PLAN**

PROJ NO: 11456-11009  
 DRWN: CHRD:

**C2.2**

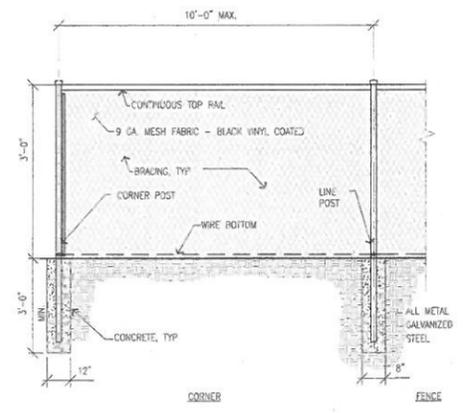
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1 SITE PLAN  
C3.1/C3.1 SCALE: 1"=20'-0"

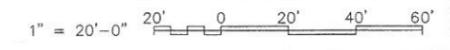
**SITE CONSTRUCTION NOTES**  
(NOTE: NOT ALL NOTES USED ON THIS PLAN)

- 1 CONSTRUCT STANDARD CURB. (C3.1/C6.3)
- 2 SEE LANDSCAPE DRAWINGS FOR PLANTINGS.
- 3 CONSTRUCT CONCRETE SIDEWALK. (5) (C3.1/C6.4)
- 4 CONSTRUCT LIGHT ASPHALT PAVEMENT SECTION. (3) (C3.1/C6.3)
- 5 CONSTRUCT HEAVY ASPHALT PAVEMENT SECTION. (2) (C3.1/C6.3)
- 6 CONSTRUCT CONCRETE DRIVEWAY. (3) (C3.1/C6.4)
- 7 INSTALL ACCESSIBLE PARKING SPACE. (11) (C3.1/C6.3)
- 8 INSTALL 3" WIDE PARKING STRIP - WHITE (TYPICAL).
- 9 INSTALL CURB AND GUTTER PER CITY OF WEST LINN STANDARDS. (1) (C3.1/C6.4)
- 10 CONSTRUCT 6' WIDE OPENING IN CURB.
- 11 CONTRACTOR SHALL PATCH & REPAIR ALL EXISTING ASPHALT PAVING USED FOR STAGING AREAS AND CONSTRUCTION TRUCK ROUTES. DAMAGED PAVING AREAS MARKED BY THE CITY OF WEST LINN STAFF SHALL BE REMOVED AND REPLACED WITH MATCHING PAVEMENT SECTION. (4) (C3.1/C6.3) PR-01
- 12 INSTALL AC PAVING PATCH, PROVIDE TACK COAT AT JOINT. (4) (C3.1/C6.3) PR-01
- 13 NEW LIGHT POLE - SEE ELECTRICAL SITE PLAN.
- 14 INSTALL 24" WIDE ADA COMPLIANT TRUNCATED DOME WARNING SURFACE.
- 15 INSTALL CROSSWALK STRIPING. (5) (C3.2/C6.3)
- 16 INSTALL PRECAST CONCRETE WHEEL STOP. (TYPICAL). (8) (C3.1/C6.3)
- 17 SEE SHEET C3.3 FOR IMPROVEMENTS IN SKYLINE BLVD.
- 18 INSTALL "STOP" SIGN. (9) (C3.1/C6.3)
- 19 INSTALL 12" WIDE WHITE STOP BAR. (4) (C3.1/C6.3)
- 20 INSTALL RETAINING WALL - SEE GRADING PLANS.
- 21 INSTALL "COMPACT" PAVEMENT MARKING (WHITE) TO DENOTE COMPACT PARKING SPACE. (2) (C3.1/C6.4) PR-01
- 22 INSTALL SALVAGED SIGN. (2) (C3.1/C6.4) PR-01
- 23 INSTALL PAINTED PARKING SPACE NUMBER MARKING (TYPICAL). NUMBERS TO BE PROVIDED BY OWNER.
- 24 INSTALL SALVAGED MAILBOX.
- 25 INSTALL 3" TALL BLACK VINYL COATED CHAIN LINK FENCE. (2) (C3.1/C3.1)



2 CHAIN LINK FENCE DETAIL  
C3.2/C3.1 SCALE: NONE

**GENERAL NOTE**  
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BAR IS ONE INCH ON ORIGINAL DRAWING 0 1"

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MARK	DATE	DESCRIPTION	ISSUE
PR-01	05/09/2013	PROPOSAL REQUEST #1	
	05/08/2013	PERMIT SUBMITTAL	

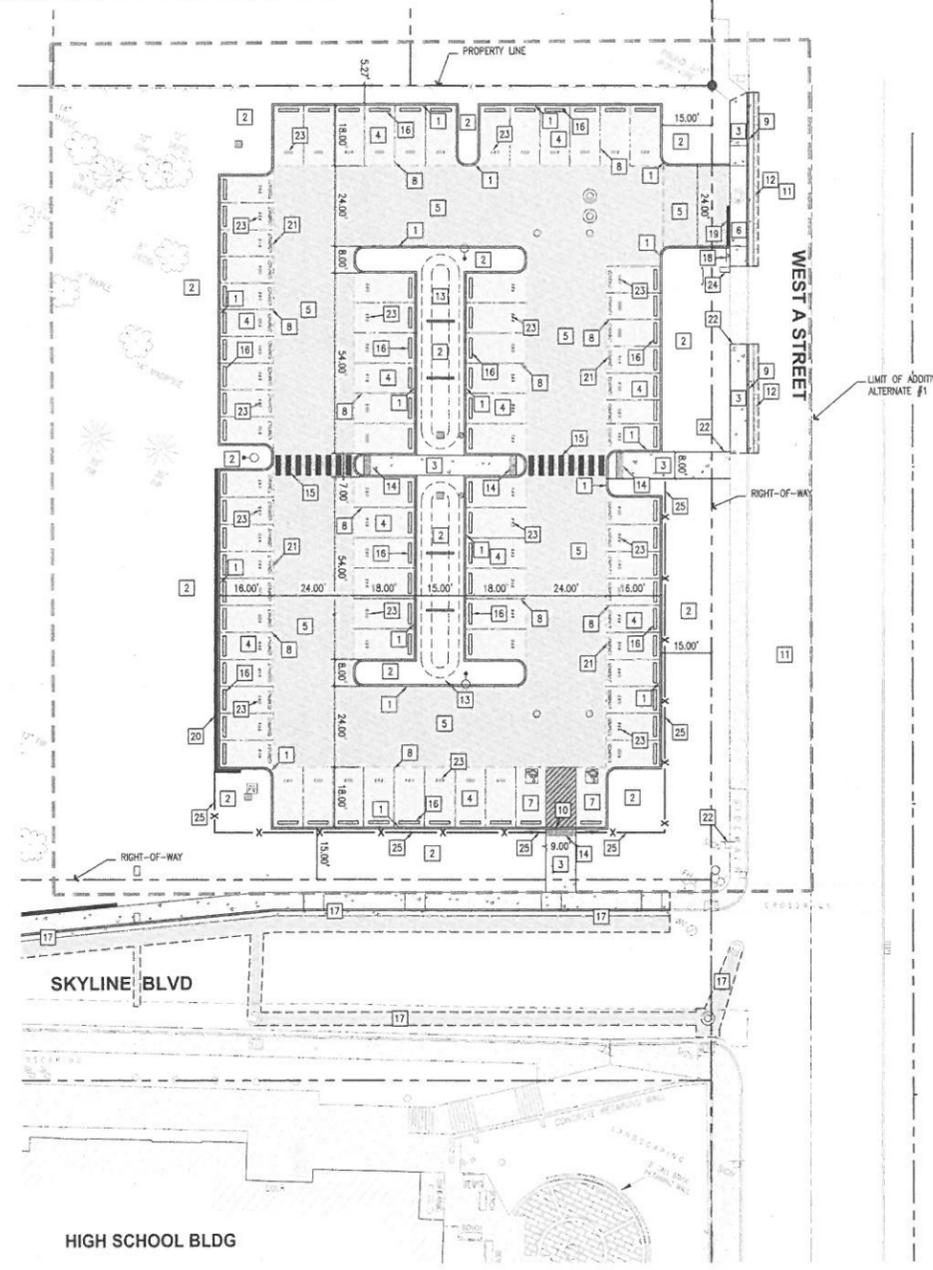
WEST LINN WILSONVILLE SCHOOL DISTRICT  
WEST LINN HIGH SCHOOL  
STUDENT PARKING LOT IMPROVEMENTS  
SITE PLAN

PROJ NO: 11456-11009  
DRWN: CHKD:  
**C3.1**  
SHEET OF

**SITE CONSTRUCTION NOTES**

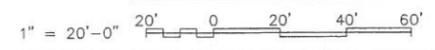
(NOTE: NOT ALL NOTES USED ON THIS PLAN)

- 1 CONSTRUCT STANDARD CURB. 1  
C3.2/C6.3
- 2 SEE LANDSCAPE DRAWINGS FOR PLANTINGS.
- 3 CONSTRUCT CONCRETE SIDEWALK. 5  
C3.2/C6.4
- 4 CONSTRUCT LIGHT ASPHALT PAVEMENT SECTION. 3  
C3.2/C6.3
- 5 CONSTRUCT HEAVY ASPHALT PAVEMENT SECTION. 2  
C3.2/C6.3
- 6 CONSTRUCT CONCRETE DRIVEWAY. 3  
C3.2/C6.4
- 7 INSTALL ACCESSIBLE PARKING SPACE. 11  
C3.2/C6.3
- 8 INSTALL 3" WIDE PARKING STRIPING - WHITE (TYPICAL).
- 9 INSTALL CURB AND GUTTER PER CITY OF WEST LINN STANDARDS. 1  
C3.2/C6.4
- 10 CONSTRUCT 6' WIDE OPENING IN CURB.
- 11 CONTRACTOR SHALL PATCH & REPAIR ALL EXISTING ASPHALT PAVING USED FOR STAGING AREAS AND CONSTRUCTION TRUCK ROUTES. DAMAGED PAVING AREAS MARKED BY THE CITY OF WEST LINN STAFF SHALL BE REMOVED AND REPLACED WITH MATCHING PAVEMENT SECTION. PR-01  
4  
C3.2/C3.3
- 12 INSTALL AC PAVING PATCH, PROVIDE TACK COAT AT JOINT. 4  
C3.2/C3.3
- 13 NEW LIGHT POLE - SEE ELECTRICAL SITE PLAN.
- 14 INSTALL 24" WIDE ADA COMPLIANT TRUNCATED DOME WARNING SURFACE. 5  
C3.2/C6.3
- 15 INSTALL CROSSWALK STRIPING.
- 16 INSTALL PRECAST CONCRETE WHEEL STOP, (TYPICAL). 8  
C3.2/C6.3
- 17 SEE SHEET C3.3 FOR IMPROVEMENTS IN SKYLINE BLVD.
- 18 INSTALL "STOP" SIGN. 9  
C3.2/C6.3
- 19 INSTALL 12" WIDE WHITE STOP BAR. 4  
C3.2/C6.3
- 20 INSTALL RETAINING WALL - SEE GRADING PLANS.
- 21 INSTALL "COMPACT" PAVEMENT MARKING (WHITE) TO DENOTE COMPACT PARKING SPACE. PR-01  
2  
C3.2/C6.4
- 22 INSTALL SALVAGED SIGN.
- 23 INSTALL PAINTED PARKING SPACE NUMBER MARKING (TYPICAL). NUMBERS TO BE PROVIDED BY OWNER.
- 24 INSTALL SALVAGED MAILBOX.
- 25 INSTALL 3' TALL BLACK VINYL COATED CHAIN LINK FENCE. 2  
C3.2/C3.1



1 ADDITIVE ALTERNATE #1  
SITE PLAN  
SCALE: 1"=20'-0"

**GENERAL NOTE**  
ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THE CITY OF WEST LINN PUBLIC WORKS STANDARD CONSTRUCTION SPECIFICATIONS AND DETAILS.



**GHD**  
GHD Inc.  
15575 SW Sequoia Parkway Suite 140 Portland Oregon 97224 USA  
T 503 226 3921 F 503 226 3926  
W www.ghd.com

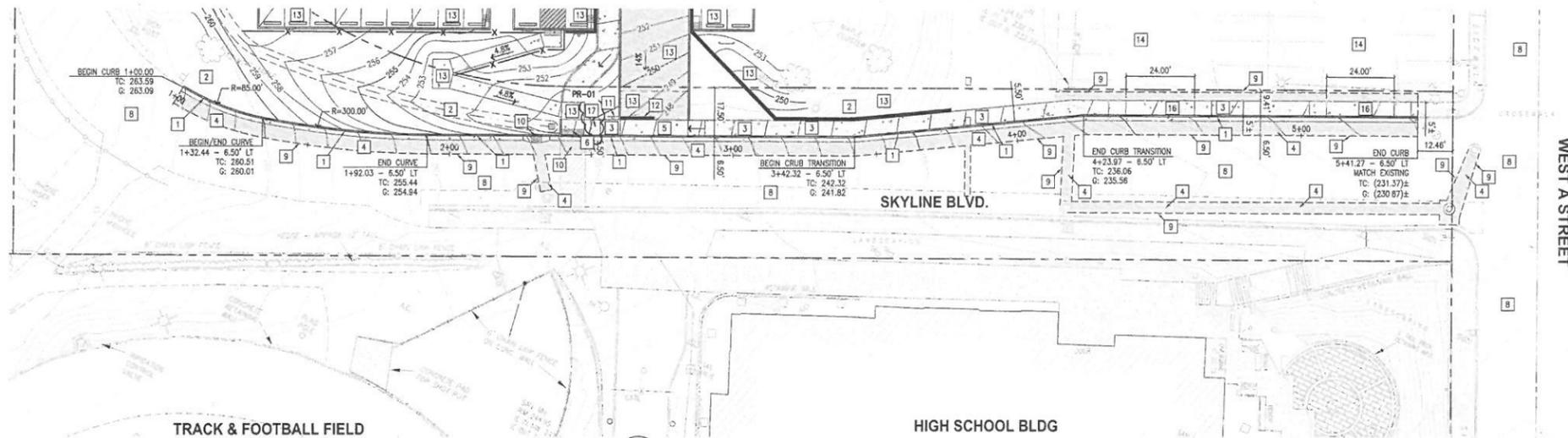


BAR IS ONE INCH ON ORIGINAL DRAWING  
0 REVISIONS  
1  
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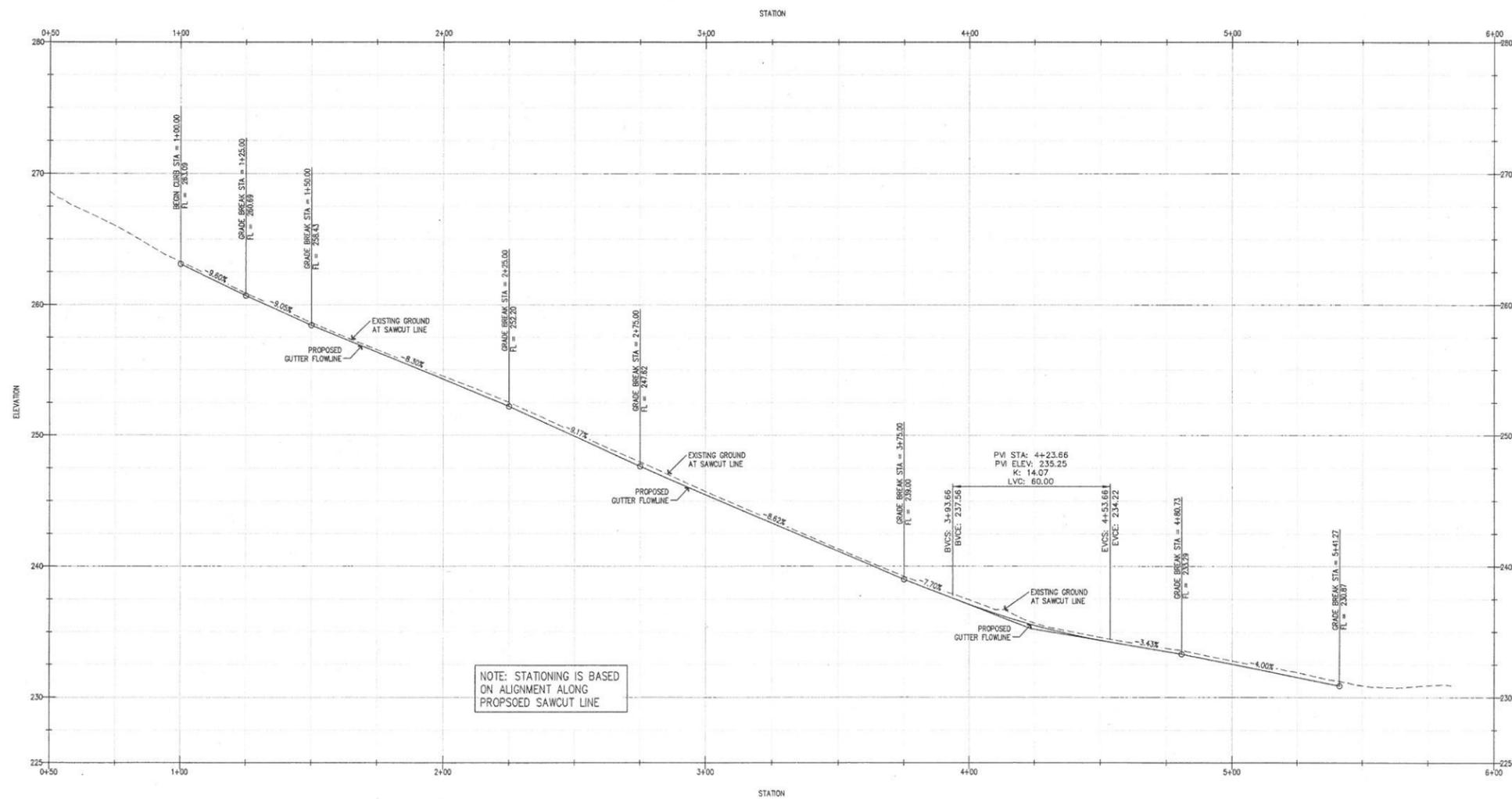
MARK	DATE	DESCRIPTION	ISSUE
PR-01	05/09/2013	PROPOSAL REQUEST #1	
	03/06/2013	PERMIT SUBMITTAL	

**WEST LINN WILSONVILLE SCHOOL DISTRICT  
WEST LINN HIGH SCHOOL  
STUDENT PARKING LOT IMPROVEMENTS  
SITE PLAN**

PROJ NO: 11456-11009  
DRWN: CHKD:



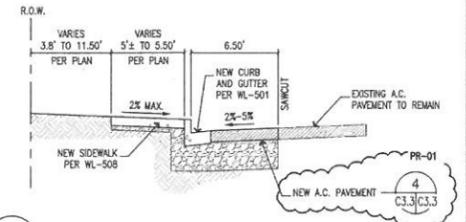
1 PLAN VIEW  
SCALE: 1"=20'-0"



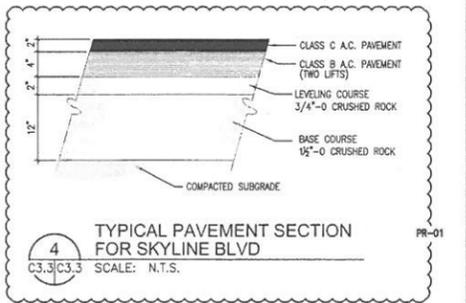
2 PROFILE VIEW  
SCALE: H: 1"=20'-0"; V: 1"=4'-0"

SITE CONSTRUCTION NOTES

- (NOTE: NOT ALL NOTES USED ON THIS PLAN)
- 1 CONSTRUCT STANDARD CURB AND GUTTER.
  - 2 SEE LANDSCAPE DRAWINGS FOR PLANTINGS.
  - 3 CONSTRUCT CONCRETE SIDEWALK.
  - 4 CONSTRUCT ASPHALT PAVEMENT SECTION.
  - 5 CONSTRUCT CONCRETE DRIVEWAY.
  - 6 CONSTRUCT STANDARD ADA CURB RAMP.
  - 7 RE-ESTABLISH VEGETATION IN AREAS DISTURBED BY CONSTRUCTION PER LANDSCAPE PLANS.
  - 8 CONTRACTOR SHALL PATCH & REPAIR ALL EXISTING ASPHALT PAVING USED FOR STAGING AREAS AND CONSTRUCTION TRUCK ROUTES. DAMAGED PAVING AREAS MARKED BY THE CITY OF WEST LINN SHALL BE REMOVED AND REPLACED WITH MATCHING PAVEMENT SECTION.
  - 9 MATCH EXISTING AC PAVING, PROVIDE TACK COAT AT JOINT. PROVIDE CLEAN SAWCUT LINE.
  - 10 REPAIR/REINSTALL CROSSWALK STRIPPING TO MATCH EXISTING.
  - 11 INSTALL "STOP" SIGN.
  - 12 INSTALL 12" WIDE WHITE STOP BAR.
  - 13 SEE SHEET C3.1 FOR CONSTRUCTION INFORMATION.
  - 14 SEE SHEET C3.2 FOR CONSTRUCTION INFORMATION.
  - 15 INSTALL CATCH BASIN, SEE SHEET C5.1.
  - 16 CONSTRUCT CONCRETE DRIVEWAY IF ADDITIVE ALTERNATE #1 IS NOT ACCEPTED, OTHERWISE CONSTRUCT CONCRETE SIDEWALK.
  - 17 INSTALL SALVAGED SIGN.

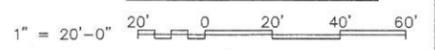


3 TYPICAL SECTION FOR SKYLINE BLVD  
SCALE: N.T.S.



4 TYPICAL PAVEMENT SECTION FOR SKYLINE BLVD  
SCALE: N.T.S.

GENERAL NOTE  
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GHD Inc.  
15575 SW Sequoia Parkway Suite 140 Portland Oregon 97224 USA  
T: 503 226 3821 F: 503 226 3926  
W: www.ghd.com



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	02/06/2013	PERMIT SUBMITTAL	

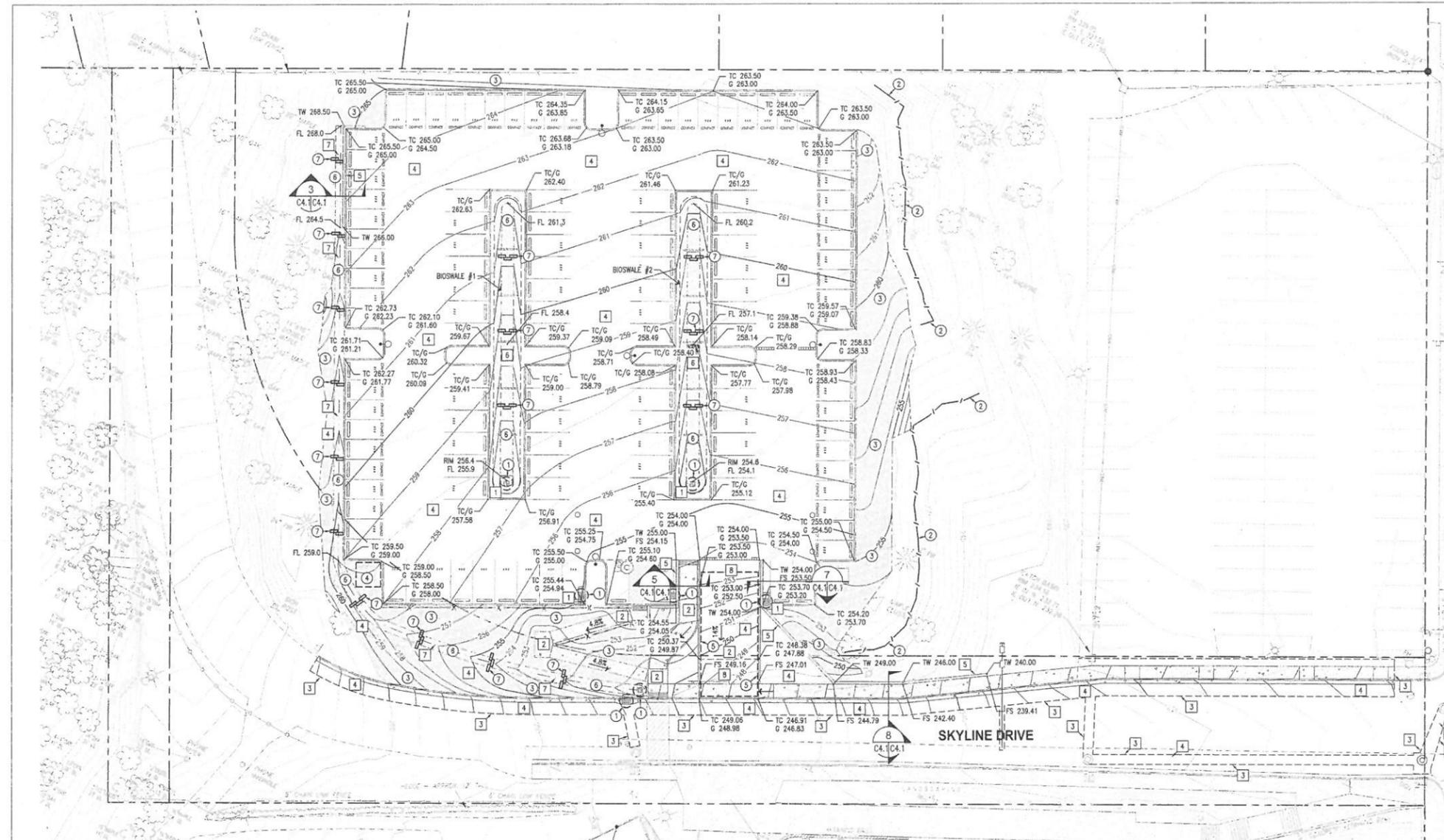
WEST LINN WILSONVILLE SCHOOL DISTRICT  
WEST LINN HIGH SCHOOL  
STUDENT PARKING LOT IMPROVEMENTS  
SKYLINE BOULEVARD IMPROVEMENTS

PROJ NO: 11456-11009

DRWN: CHD:

C3.3

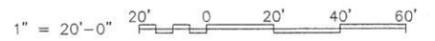
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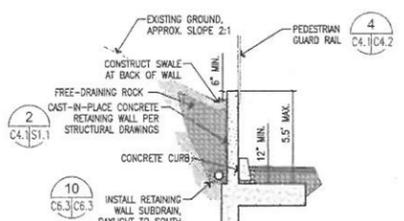
1 GRADING AND EROSION CONTROL PLAN  
C4.1/C4.1 SCALE: 1"=20'-0"

- ### GRADING CONSTRUCTION NOTES
- GRADE TO MAINTAIN POSITIVE DRAINAGE TOWARD ALL STORMWATER COLLECTION FACILITIES.
  - STRIP TOPSOIL AND PROVIDE EXCAVATION OR STRUCTURAL FILL AS NEEDED TO ACHIEVE REQUIRED SUBGRADE.
  - MATCH EXISTING PAVEMENT GRADES AT JOINTS BETWEEN NEW AND EXISTING PAVEMENTS.
  - PROVIDE EXCAVATION OR STRUCTURAL FILL AS NEEDED TO ACHIEVE REQUIRED SUBGRADE. EXPECT TO ENCOUNTER SOLID BASALT ROCK AND/OR LARGE BOULDERS FOR EXCAVATIONS THAT EXCEED 2 FEET BELOW THE EXISTING SURFACE.
  - CONSTRUCT RETAINING WALL PER PROFILES AND SECTIONS ON THIS SHEET.
  - CONSTRUCT BIOSWALE.
  - CONSTRUCT EARTH SWALE.
  - GRADE TO CREATE A VERTICAL CURVE SMOOTH TRANSITION BETWEEN SPOT ELEVATIONS AT THE TOP AND BOTTOM OF DREWWAY.

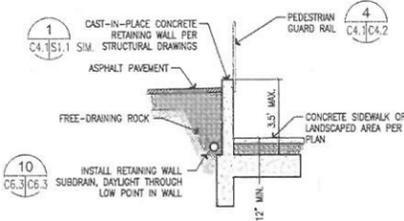
- ### EROSION CONTROL CONSTRUCTION NOTES
- INSTALL INLET PROTECTION.
  - INSTALL SEDIMENT FENCE (TYPICAL).
  - INSTALL COMPOST BLANKET AND PLANTINGS ON ALL BARE SLOPES DISTURBED BY CONSTRUCTION. FOR SEED MIXES AND PLANTINGS SEE LANDSCAPE DRAWINGS.
  - INSTALL 10'x10'x1.5' DEEP CONCRETE WASHOUT AREA. ALL WATER COLLECTED THROUGH WASHOUT AREA IS CONSIDERED HAZARDOUS WASTE AND SHALL BE CAPTURED AND HANDLED AS SUCH. ALL CONCRETE FROM FIT SHALL BE REMOVED. FIT SHALL BE MONITORED & MAINTAINED BY CONTRACTOR TO ENSURE NO OVERFLOW OCCURS. CONTRACTOR MAY ADJUST LOCATION WITH OWNER'S PERMISSION.
  - INSTALL GRAVEL CONSTRUCTION ENTRANCE.
  - INSTALL SLOPE MATTING IN SWALE.
  - INSTALL BIOFILTER BAG CHECK DAMS AT 30' ON CENTER.



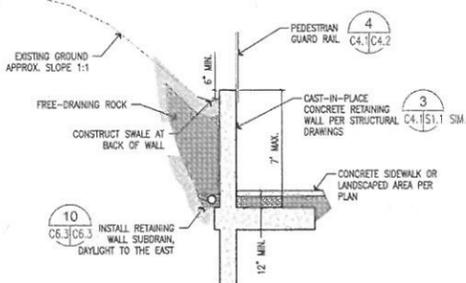
**GENERAL NOTE**  
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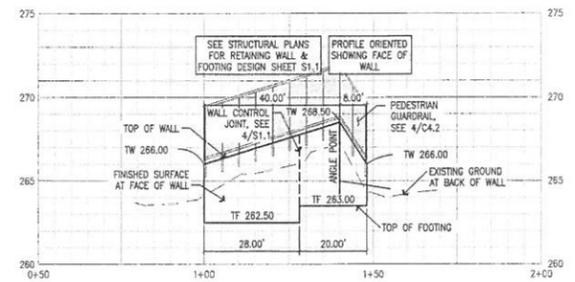
3 WESTERN LOT - NW WALL RETAINING WALL TYPICAL SECTION  
C4.1/C4.1 SCALE: NONE



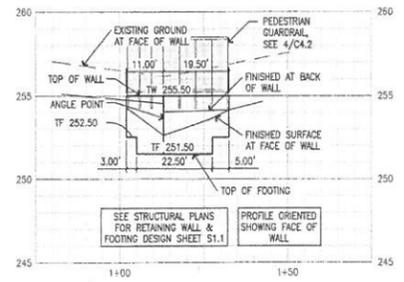
5 WESTERN LOT - WEST DRIVEWAY RETAINING WALL TYPICAL SECTION  
C4.1/C4.1 SCALE: NONE



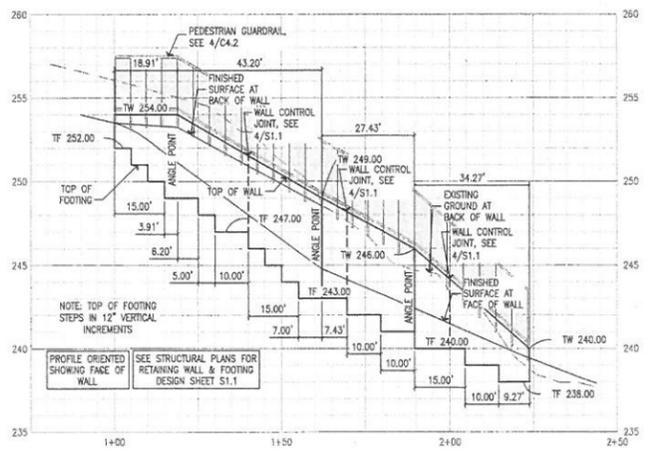
8 WESTERN LOT - EAST DRIVEWAY / SKYLINE BLVD. RETAINING WALL TYPICAL SECTION #2  
C4.1/C4.1 SCALE: NONE



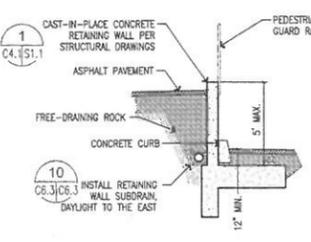
2 WESTERN LOT - NW WALL RETAINING WALL PROFILE  
C4.1/C4.1 SCALE: H: 1"=20'-0"; V: 1"=4'-0"



4 WESTERN LOT - WEST DRIVEWAY RETAINING WALL PROFILE  
C4.1/C4.1 SCALE: H: 1"=20'-0"; V: 1"=4'-0"



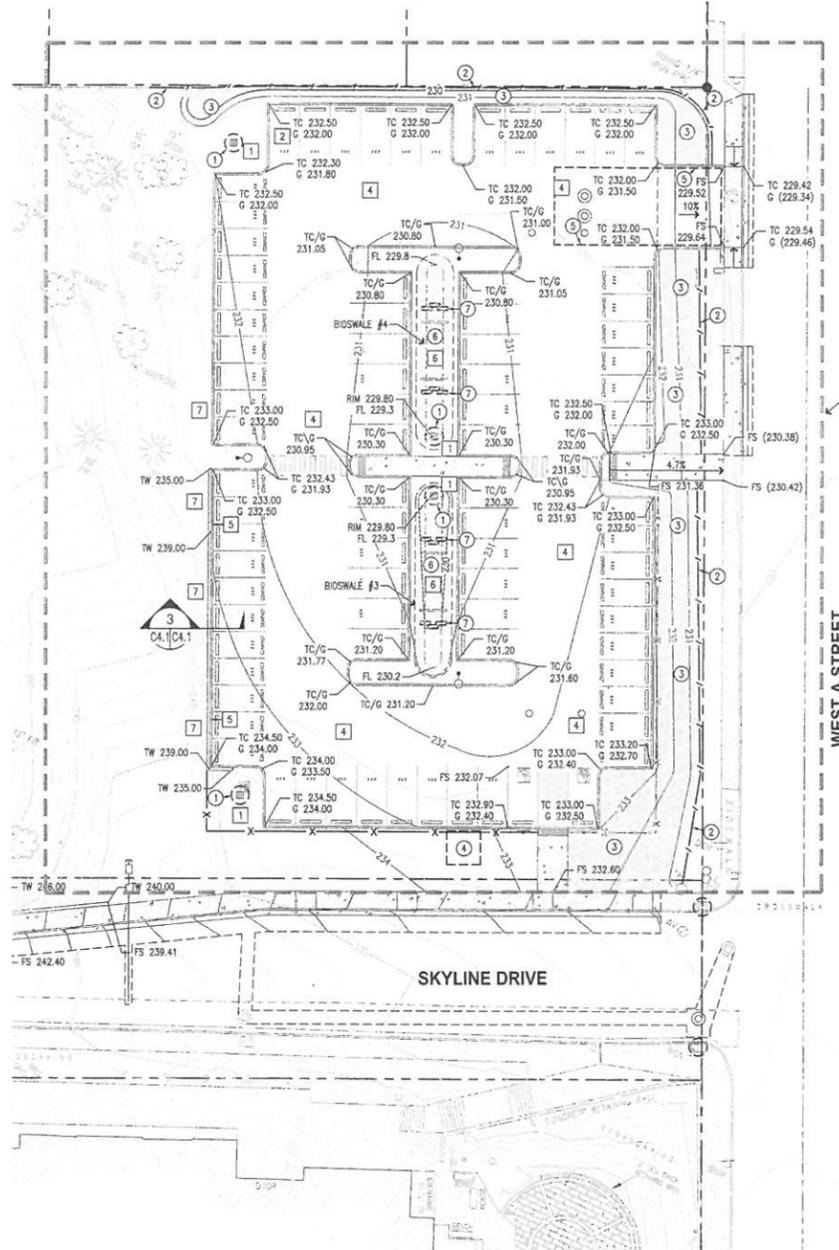
6 WESTERN LOT - EAST DRIVEWAY / SKYLINE BLVD. RETAINING WALL PROFILE  
C4.1/C4.1 SCALE: H: 1"=20'-0"; V: 1"=4'-0"



7 WESTERN LOT - EAST DRIVEWAY / SKYLINE BLVD. RETAINING WALL TYPICAL SECTION #1  
C4.1/C4.1 SCALE: NONE

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15975 SW Sequoia Parkway Suite 140 Portland Oregon 97224 USA  
T: 503.226.3501 F: 503.226.3526  
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03/06/2013 PERMIT SUBMITTAL	DATE
	DESCRIPTION
	ISSUE
WEST LINN WILSONVILLE SCHOOL DISTRICT WEST LINN HIGH SCHOOL STUDENT PARKING LOT IMPROVEMENTS	GRADING AND EROSION CONTROL PLAN
PROJ NO: 11456-11009	
DRWN: CHD	
<b>C4.1</b>	
SHEET	OF

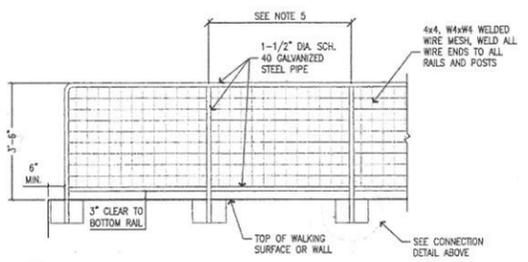
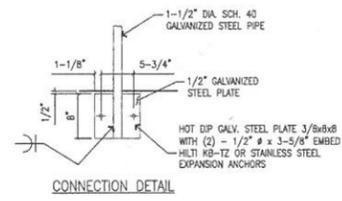


**GRADING CONSTRUCTION NOTES**

- GRADE TO MAINTAIN POSITIVE DRAINAGE TOWARD ALL STORMWATER COLLECTION FACILITIES.
- STRIP TOPSOIL AND PROVIDE EXCAVATION OR STRUCTURAL FILL AS NEEDED TO ACHIEVE REQUIRED SUBGRADE.
- MATCH EXISTING PAVEMENT GRADES AT JOINTS BETWEEN NEW AND EXISTING PAVEMENTS.
- PROVIDE EXCAVATION OR STRUCTURAL FILL AS NEEDED TO ACHIEVE REQUIRED SUBGRADE.
- CONSTRUCT RETAINING WALL PER PROFILE AND SECTION ON THIS SHEET.
- CONSTRUCT BIOSWALE.
- THE EXISTING MATERIAL IN THIS AREA CONSISTS OF LOOSELY COMPACTED COBBLES AND BouldERS UP TO 3 FEET IN DIAMETER. SIGNIFICANT CAVING AND ROCK FALLS SHOULD BE EXPECTED DURING EXCAVATION.

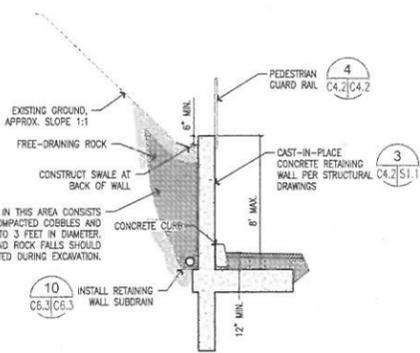
**EROSION CONTROL CONSTRUCTION NOTES**

- INSTALL INLET PROTECTION.
- INSTALL SEDIMENT FENCE (TYPICAL).
- INSTALL COMPOST BLANKET AND PLANTINGS ON ALL BARE SLOPES DISTURBED BY CONSTRUCTION. FOR SEED MIXES AND PLANTINGS SEE LANDSCAPE DRAWINGS.
- INSTALL 10'x10'x1.5' DEEP CONCRETE WASHOUT AREA. ALL WATER COLLECTED THROUGH WASHOUT AREA IS CONSIDERED HAZARDOUS WASTE AND SHALL BE CAPTURED AND HANDLED AS SUCH. ALL CONCRETE FROM PIT SHALL BE REMOVED. PIT SHALL BE MONITORED & MAINTAINED BY CONTRACTOR TO ENSURE NO OVERFLOW OCCURS. CONTRACTOR MAY ADJUST LOCATION WITH OWNER'S PERMISSION.
- INSTALL GRAVEL CONSTRUCTION ENTRANCE.
- INSTALL SLOPE MATTING IN SWALE.
- INSTALL BIOFILTER BAG CHECK DAMS AT 30' ON CENTER.

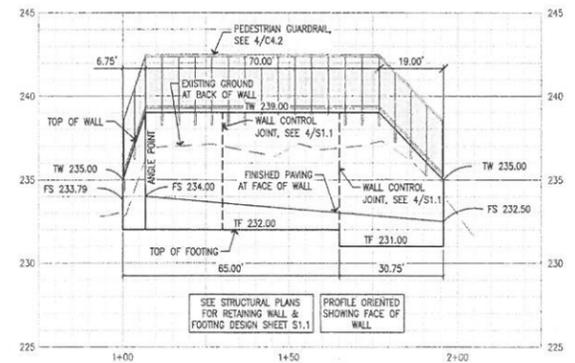


- NOTES**
- STRUCTURAL PIPES SHALL CONFORM TO ASTM A53, GRADE B (F<sub>y</sub>=35 KSI) AND STRUCTURAL STEEL PLATES SHALL CONFORM TO ASTM A36.
  - STEEL SHALL BE FABRICATED AND ERRECTED IN CONFORMANCE WITH THE LATEST AISC SPECIFICATIONS AND CODE OF STANDARD PRACTICE.
  - WELDING SHALL BE DONE BY CERTIFIED WELDERS. WELDING SHALL CONFORM TO THE LATEST EDITIONS OF APPLICABLE AWS WELDING CODES.
  - ALL STRUCTURAL STEEL COMPONENTS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION.
  - MAXIMUM SPACING OF POSTS SHALL BE 5 FEET ON STRAIGHT ALIGNMENTS AND 4 FEET ON CURVED ALIGNMENTS WITH LESS THAN A 30 FEET RADIUS. SPACING SHALL BE UNIFORM BETWEEN CHANGES IN ALIGNMENT.
  - ALL FIELD WELDS SHALL BE GROUND SMOOTH.
  - GALVANIZED COATING THAT HAS BEEN DAMAGED BY WELDING, CUTTING OR DRILLING SHALL BE REPAIRED WITH A COLD GALVANIZING COMPOUND IN ACCORDANCE WITH ASTM A780.
  - SPECIAL INSPECTION OF EXPANSION ANCHORS IS REQUIRED PER ICC ESR REPORT 1917.

**4 PEDESTRIAN GUARD RAIL**  
C4.2 SCALE: NONE

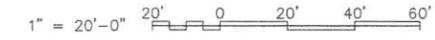


**3 EASTERN LOT RETAINING WALL TYPICAL SECTION**  
C4.2/C4.2 SCALE: NONE



**2 EASTERN LOT RETAINING WALL PROFILE**  
C4.2/C4.2 SCALE: H: 1"=20'-0"; V: 1"=4'-0"

**GENERAL NOTE**  
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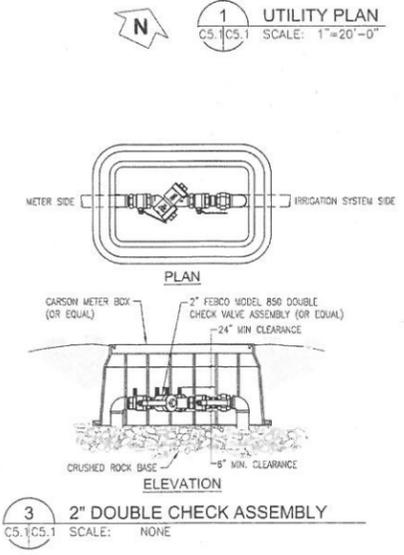
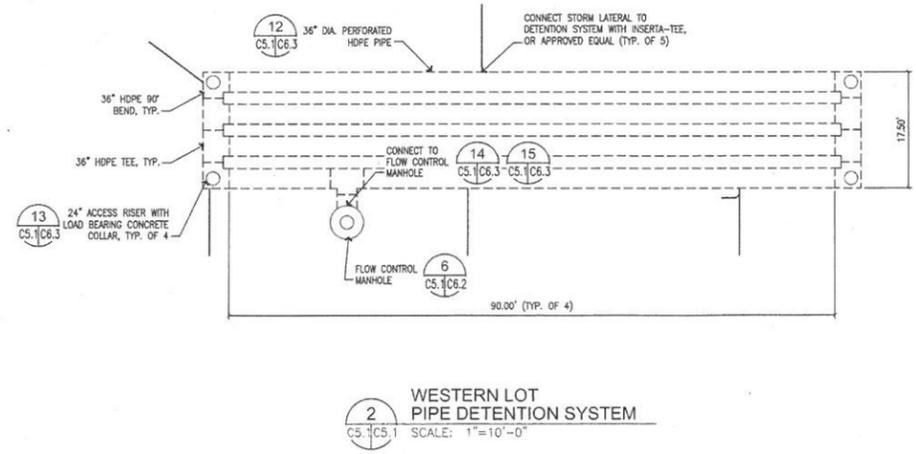
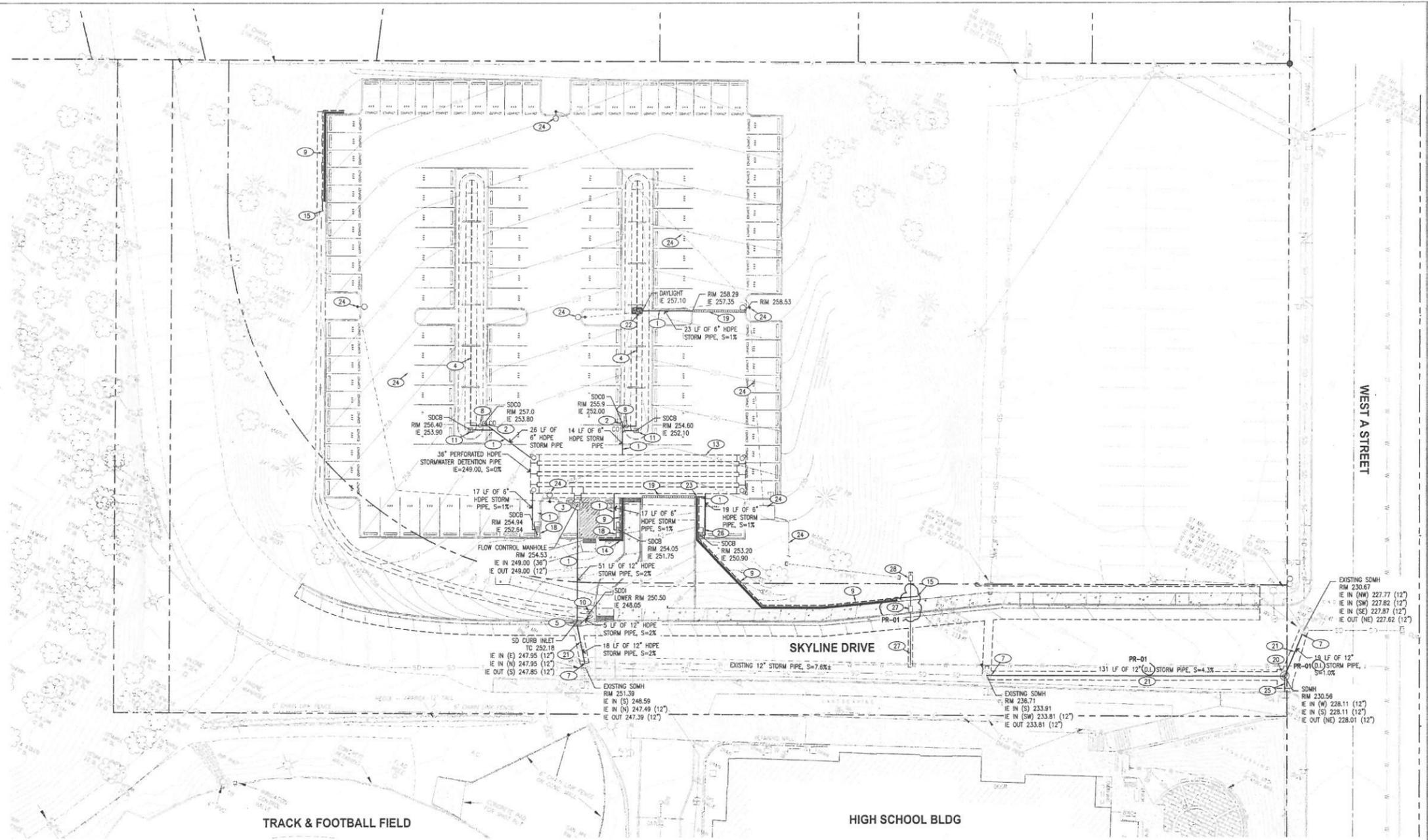
MARK	DATE	DESCRIPTION	ISSUE
		PERMIT SUBMITTAL	

**WEST LINN WILSONVILLE SCHOOL DISTRICT  
WEST LINN HIGH SCHOOL  
STUDENT PARKING LOT IMPROVEMENTS  
GRADING AND  
EROSION CONTROL PLAN**

PROJ. NO: 11456-11009  
DRWN: CHKD

**C4.2**

SHEET OF

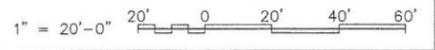


**UTILITY CONSTRUCTION NOTES**

- 1 INSTALL PVC STORM DRAIN PIPE - SIZE PER PLAN.
- 2 INSTALL STANDARD CLEANOUT.
- 3 INSTALL FLOW CONTROL MANHOLE.
- 4 INSTALL PERFORATED PIPE SUBDRAIN IN BIOSWALE. CONNECT TO STORM DRAIN SYSTEM.
- 5 INSTALL CATCH BASIN PER CITY OF WEST LINN STANDARDS.
- 6 INSTALL STANDARD 48\"/>
- 7 CONNECT TO EXISTING SYSTEM. CONTRACTOR TO CONFIRM THE IN-ELEVATION OF EXISTING SYSTEM PRIOR TO CONSTRUCTION.
- 8 PROVIDE 4\"/>
- 9 INSTALL RETAINING WALL SUBDRAIN.
- 10 INSTALL CONCRETE DITCH INLET AND CONNECT TO STORM SYSTEM WITH 6\"/>
- 11 INSTALL 24\"/>
- 12 INSTALL 24\"/>
- 13 INSTALL 36\"/>
- 14 DAYLIGHT WALL DRAIN THROUGH WALL.
- 15 DAYLIGHT WALL DRAIN.
- 16 CONNECT WALL DRAIN TO STORM SYSTEM WITH SOLID WALL PVC STORM PIPE.
- 17 CONNECT TO EXISTING STORM PIPE AND INSTALL NEW 4\"/>
- 18 INSTALL DOUBLE CARTRIDGE FILTER CATCH BASIN.
- 19 INSTALL TRENCH DRAIN.
- 20 INSTALL MANHOLE PER CITY OF WEST LINN STANDARDS.
- 21 INSTALL PIPE PER CITY OF WEST LINN STANDARDS.
- 22 DAYLIGHT STORM PIPE AND INSTALL ROCK PAD.
- 23 CONNECT TRENCH DRAIN TO STORM SYSTEM.
- 24 SEE ELECTRICAL PLANS FOR CONSTRUCTION INFORMATION.
- 25 CONNECT EXISTING CATCH BASIN TO NEW MANHOLE WITH 12\"/>
- 26 INSTALL SINGLE CARTRIDGE FILTER CATCH BASIN.
- 27 CITY OF WEST LINN TO INSTALL 2\"/>
- 28 INSTALL 2\"/>

**GENERAL NOTE**  
EXPECT TO ENCOUNTER SOLID BASALT ROCK AND/OR LARGE BOULDERS FOR EXCAVATIONS THAT EXCEED 2 FEET BELOW THE EXISTING SURFACE.

**GENERAL NOTE**  
ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THE CITY OF WEST LINN PUBLIC WORKS STANDARD CONSTRUCTION SPECIFICATIONS AND DETAILS.





GHD Inc.  
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	03/06/2013	PERMIT SUBMITTAL	

UTILITY PLAN

**WEST LINN WILSONVILLE SCHOOL DISTRICT**  
**WEST LINN HIGH SCHOOL**  
**STUDENT PARKING LOT IMPROVEMENTS**

PROJ NO: 11456-11009

CHKD:

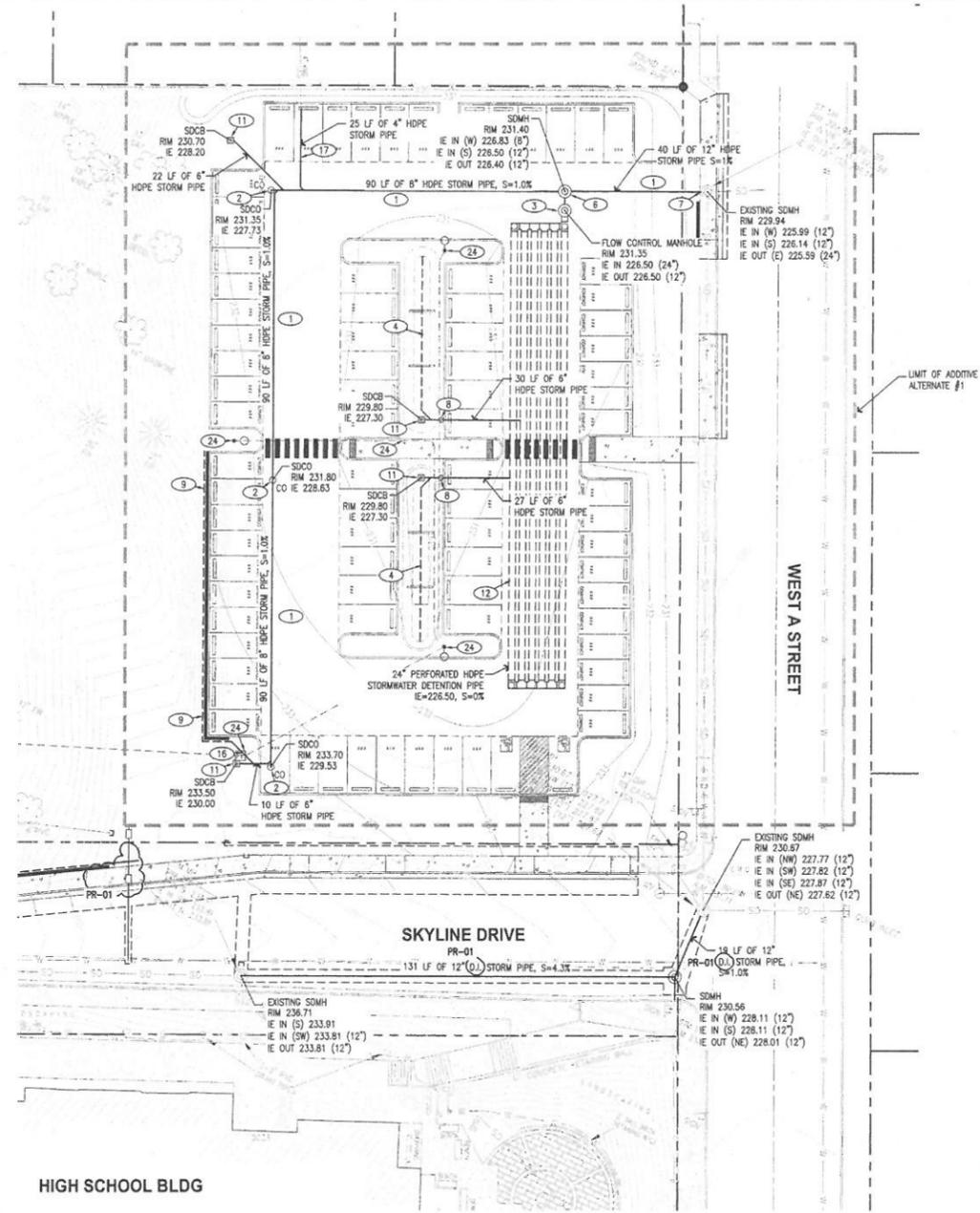
C5.1

SHEET

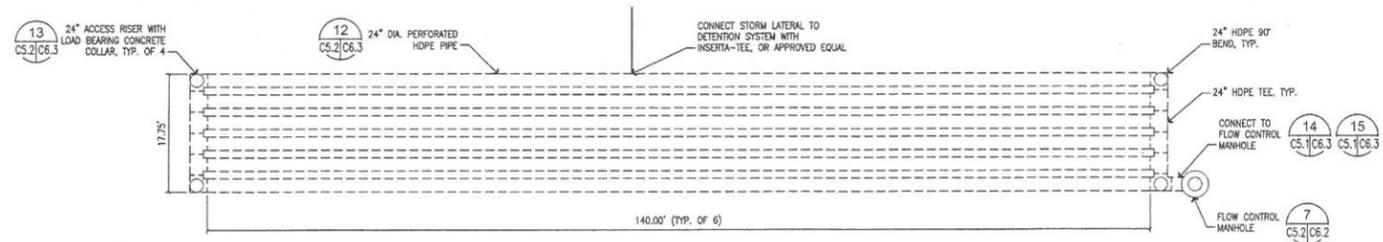
OF

**UTILITY CONSTRUCTION NOTES**

- 1 INSTALL PVC STORM DRAIN PIPE - SIZE PER PLAN. 15  
CS.2/CS.2
- 2 INSTALL STANDARD CLEANOUT. 11  
CS.2/CS.2
- 3 INSTALL FLOW CONTROL MANHOLE. 7  
CS.2/CS.2
- 4 INSTALL PERFORATED PIPE SUBDRAIN IN BIOSWALE. CONNECT TO STORM DRAIN SYSTEM. 9  
CS.2/CS.2
- 5 INSTALL CATCH BASIN PER CITY OF WEST LINN STANDARDS. 2  
CS.2/CS.2
- 6 INSTALL STANDARD 48" DIA. MANHOLE. 13  
CS.2/CS.2
- 7 CONNECT TO EXISTING SYSTEM. CONTRACTOR TO CONFIRM TIE-IN ELEVATION OF EXISTING SYSTEM PRIOR TO CONSTRUCTION. 10  
CS.2/CS.3
- 8 PROVIDE 4" PVC SOLID WALL CONNECTION FROM BIOSWALE SUBDRAIN TO STORM DRAIN. INSTALL BACKWATER VALVE IN LANDSCAPE AREA. 8  
CS.1/CS.2
- 9 INSTALL RETAINING WALL SUBDRAIN. 10  
CS.2/CS.3
- 10 INSTALL CONCRETE DITCH INLET AND CONNECT TO STORM SYSTEM WITH 6" PVC PIPE. 2  
CS.2/CS.2
- 11 INSTALL 24" METAL CATCH BASIN. 2  
CS.2/CS.2
- 12 INSTALL 24" HDPE PIPE DETENTION SYSTEM. 2  
CS.2/CS.2
- 13 INSTALL 36" HDPE PIPE DETENTION SYSTEM. 2  
CS.1/CS.1
- 14 DAYLIGHT WALL DRAIN THROUGH WALL. 5  
CS.1/CS.5
- 15 DAYLIGHT WALL DRAIN. 2  
CS.1/CS.5
- 16 CONNECT WALL DRAIN TO STORM SYSTEM WITH SOLID WALL PVC STORM PIPE. 1  
CS.1/CS.5
- 17 CONNECT TO EXISTING STORM PIPE AND INSTALL NEW 4" PVC STORM PIPE TO CONNECT TO NEW STORM SYSTEM. SLOPE TO BE 1% MINIMUM. 1  
CS.1/CS.5
- 18 INSTALL DOUBLE CARTRIDGE FILTER CATCH BASIN. 1  
CS.1/CS.5
- 19 INSTALL TRENCH DRAIN. 14  
CS.1/CS.2
- 20 INSTALL MANHOLE PER CITY OF WEST LINN STANDARDS. 7  
CS.1/CS.5
- 21 INSTALL PIPE PER CITY OF WEST LINN STANDARDS. 3  
CS.1/CS.5
- 22 DAYLIGHT STORM PIPE AND INSTALL ROCK PAD. 6  
CS.1/CS.2
- 23 CONNECT TRENCH DRAIN TO STORM SYSTEM. 7  
CS.1/CS.5
- 24 SEE ELECTRICAL PLANS FOR CONSTRUCTION INFORMATION. 3  
CS.1/CS.1
- 25 CONNECT EXISTING CATCH BASIN TO NEW MANHOLE WITH 12" HDPE STORM PIPE, SLOPE = 1% MINIMUM. 3  
CS.1/CS.1
- 26 INSTALL SINGLE CARTRIDGE FILTER CATCH BASIN. 3  
CS.1/CS.1
- 27 INSTALL 2" WATER SERVICE, METER AND BOX. TRENCH BACKFILL MATERIAL (AS DEFINED ON CITY OF WEST LINN STANDARD DRAWING WL-200) SHALL CONSIST OF CLASS B MATERIAL UNDER ALL PAVED SURFACES, AND CLASS A MATERIAL UNDER LANDSCAPED AREAS. 3  
CS.1/CS.1
- 28 INSTALL 2" DOUBLE CHECK ASSEMBLY. SEE LANDSCAPE PLANS FOR CONTINUATION. 3  
CS.1/CS.1

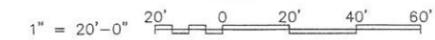


**1 ADDITIVE ALTERNATE #1 UTILITY PLAN**  
SCALE: 1"=20'-0"



**2 EASTERN LOT PIPE DETENTION SYSTEM**  
SCALE: 1"=10'-0"

**GENERAL NOTE**  
ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THE CITY OF WEST LINN PUBLIC WORKS STANDARD CONSTRUCTION SPECIFICATIONS AND DETAILS.



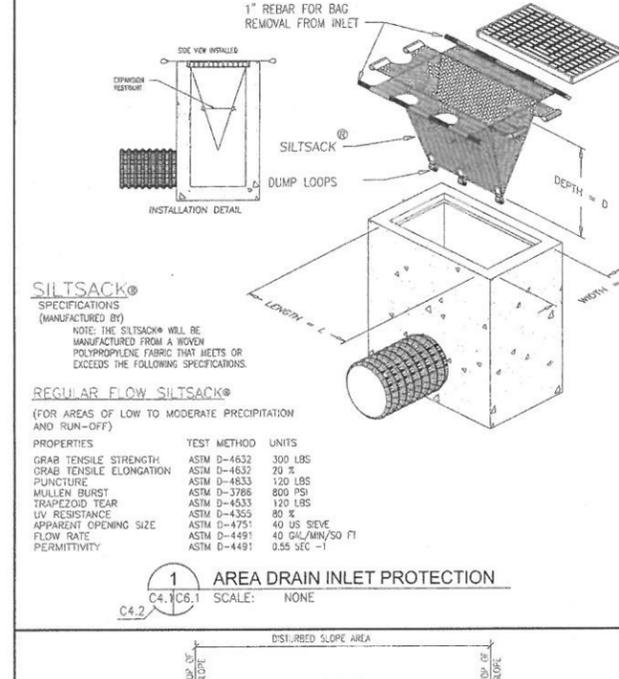
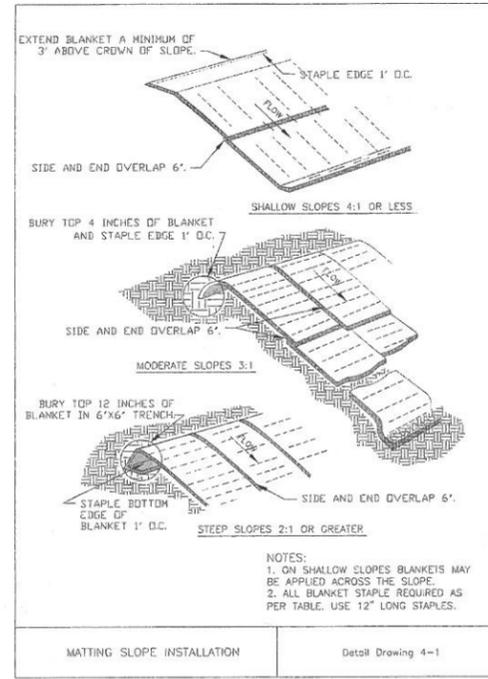
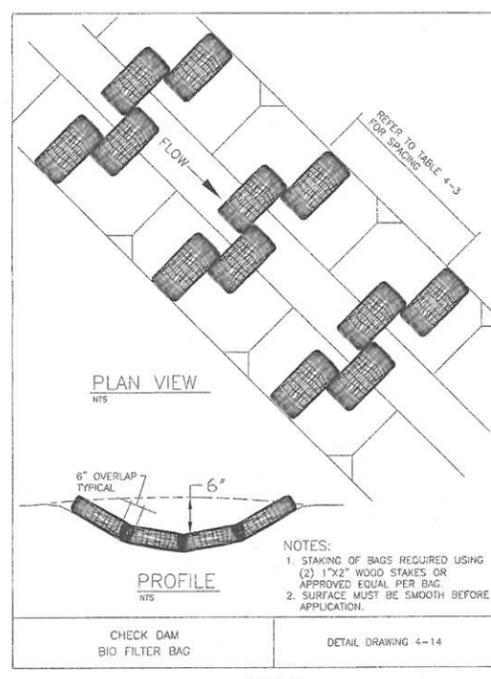
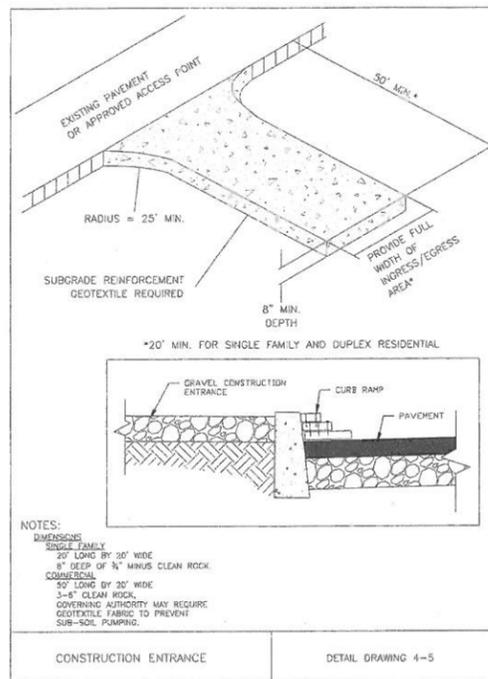
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MARK	DATE	DESCRIPTION	ISSUE
PR-01	06/09/2013	PROPOSAL REQUEST #1	
	03/06/2013	PERMIT SUBMITTAL	

**WEST LINN WILSONVILLE SCHOOL DISTRICT  
WEST LINN HIGH SCHOOL  
STUDENT PARKING LOT IMPROVEMENTS  
UTILITY PLAN**

PROJ. NO. 11456-11009  
DRAWN: CHKD.

**C5.2**

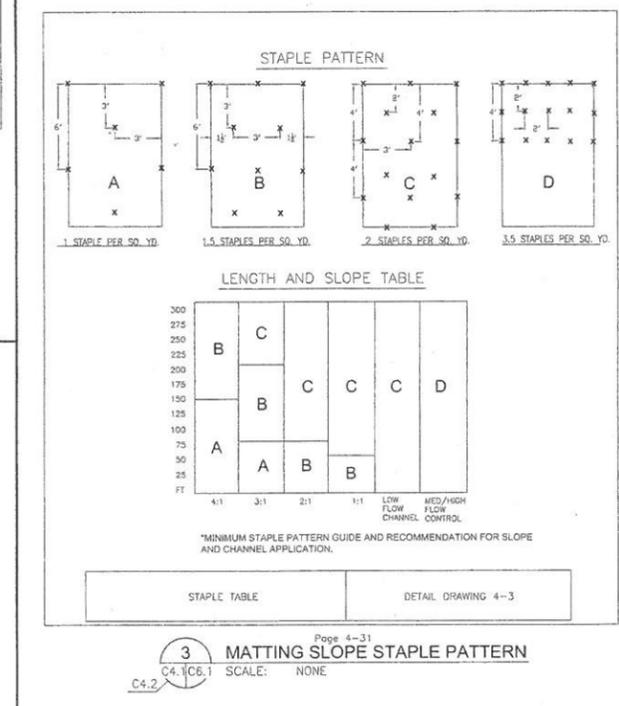
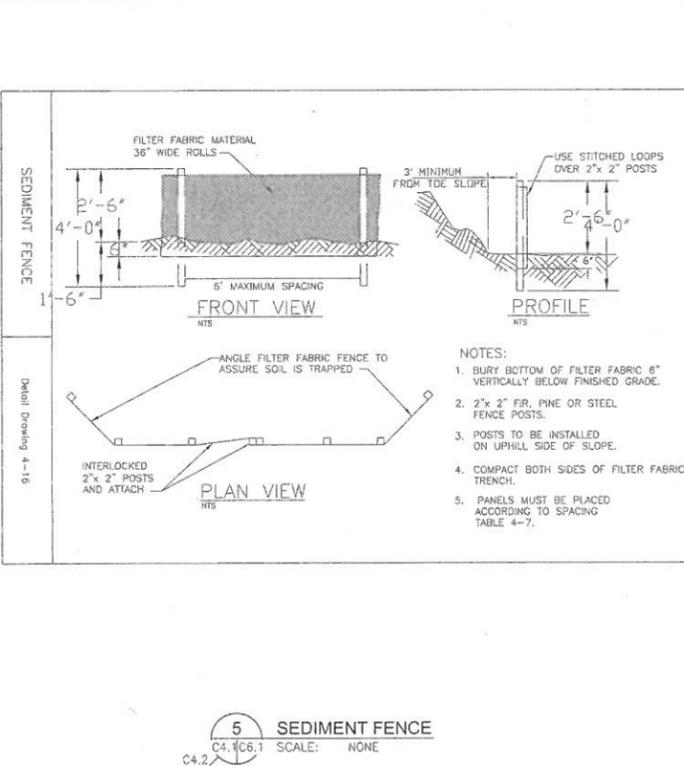
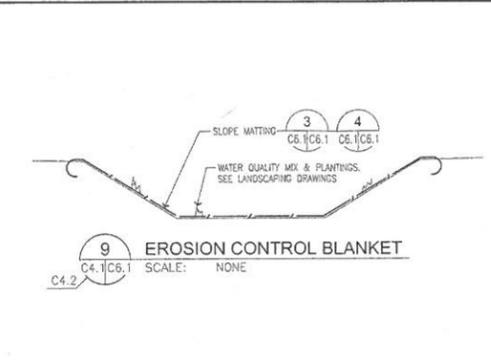
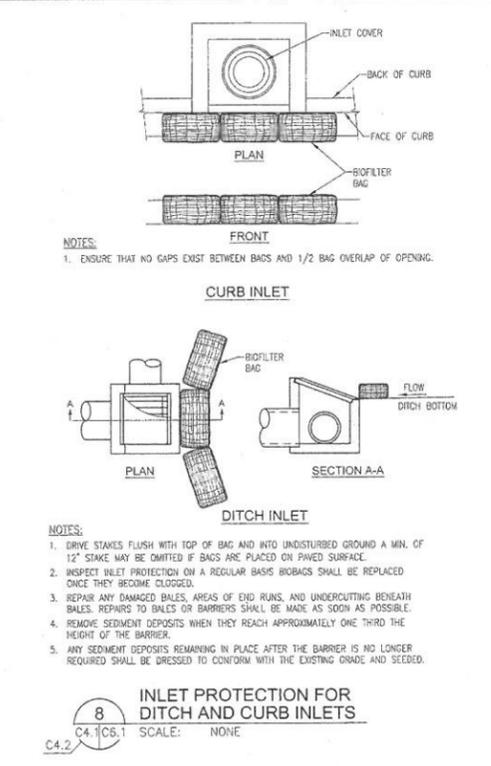


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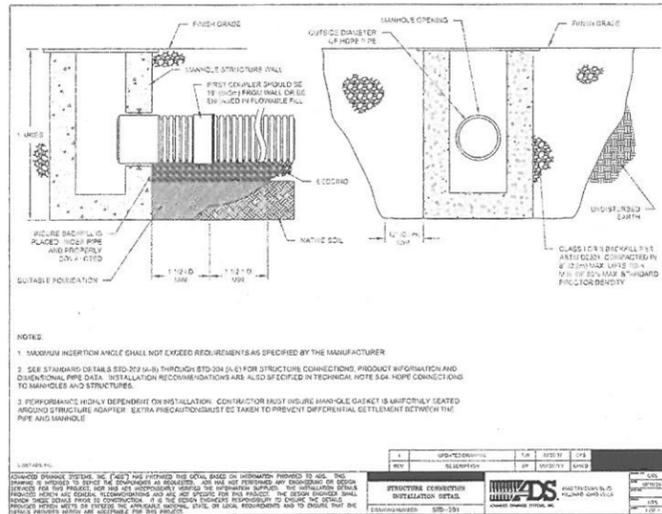
Page 4-70

Page 4-29

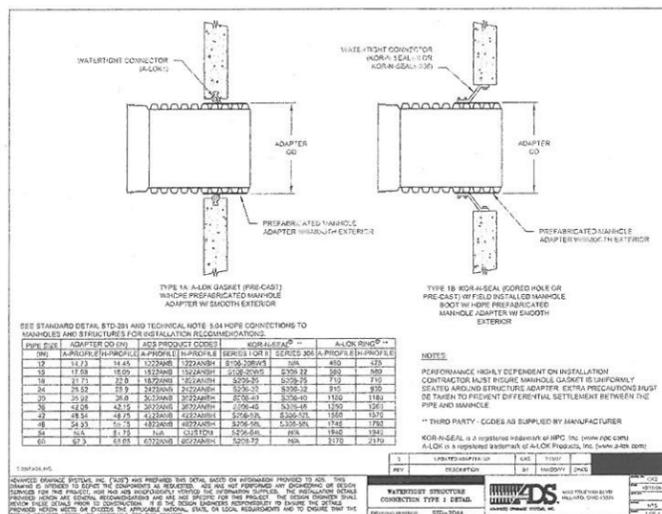
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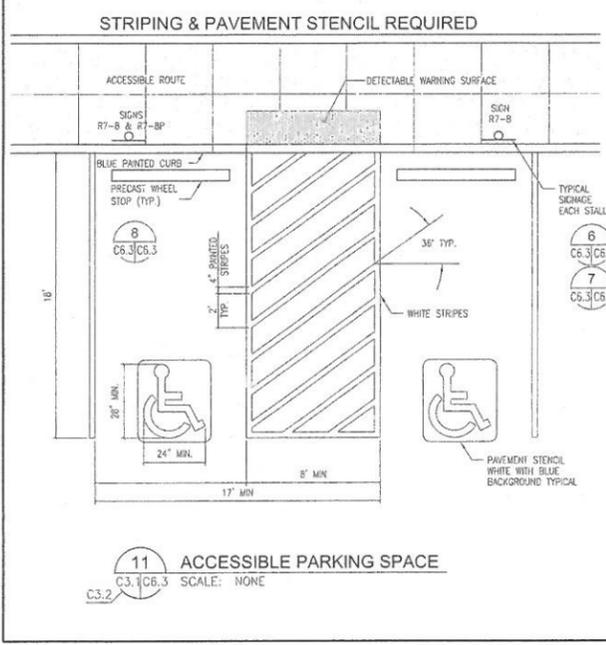




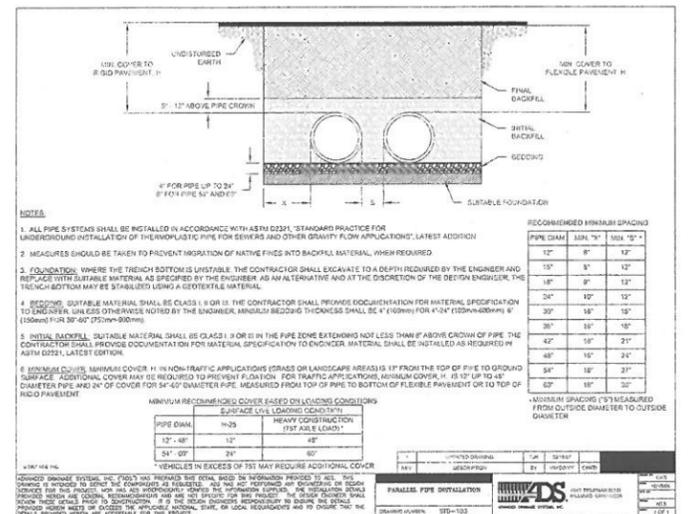
**14 DETENTION SYSTEM CONNECTION TO MANHOLE #1**  
C5.1, C6.3 SCALE: NONE



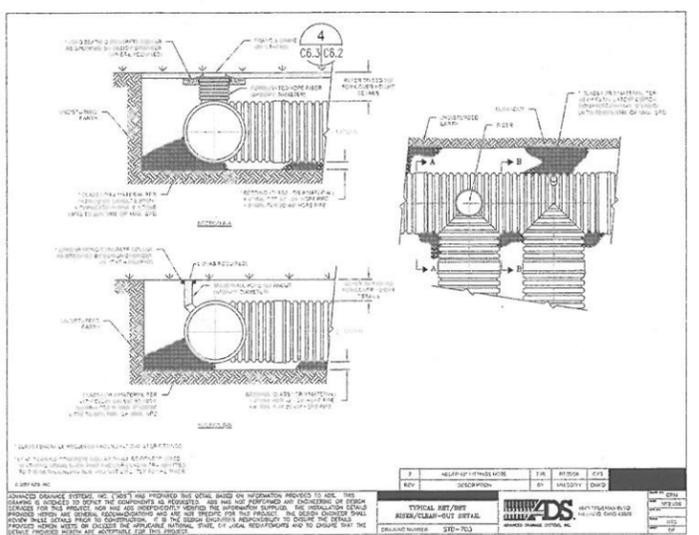
**15 DETENTION SYSTEM CONNECTION TO MANHOLE #2**  
C5.1, C6.3 SCALE: NONE



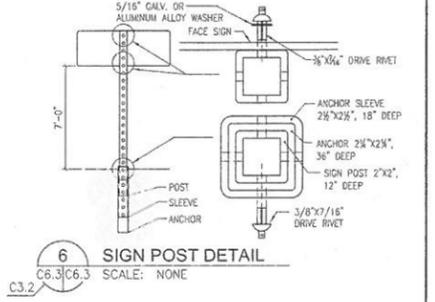
**11 ACCESSIBLE PARKING SPACE**  
C3.2, C6.3 SCALE: NONE



**12 DETENTION PIPE INSTALLATION**  
C5.2, C6.3 SCALE: NONE



**13 TYPICAL RISER DETAIL**  
C5.2, C6.3 SCALE: NONE



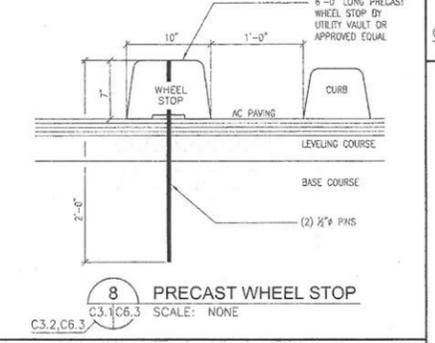
**6 SIGN POST DETAIL**  
C6.3, C6.3 SCALE: NONE



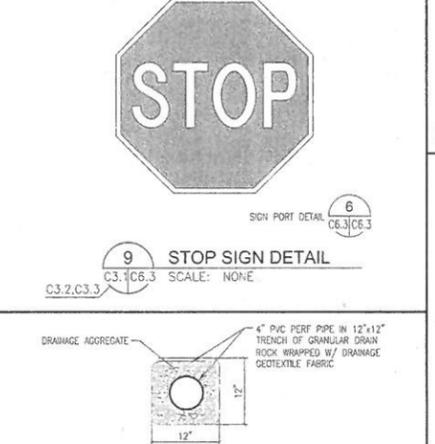
**7 ACCESSIBLE PARKING SPACE SIGN**  
C6.3, C6.3 SCALE: NONE



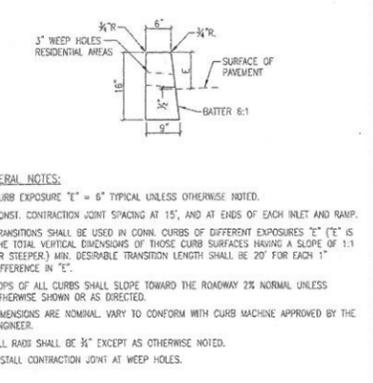
**8 PRECAST WHEEL STOP**  
C3.2, C6.3 SCALE: NONE



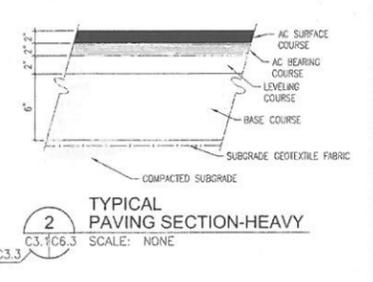
**9 STOP SIGN DETAIL**  
C3.2, C6.3 SCALE: NONE



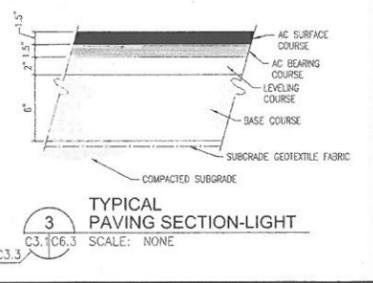
**10 RETAINING WALL SUBDRAIN**  
C4.2, C6.3 SCALE: NONE



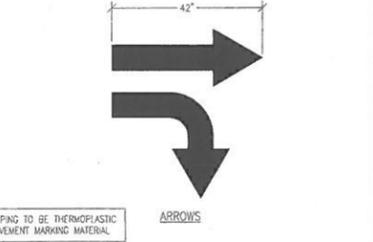
**1 STANDARD CURB**  
C3.2, C6.3 SCALE: NONE



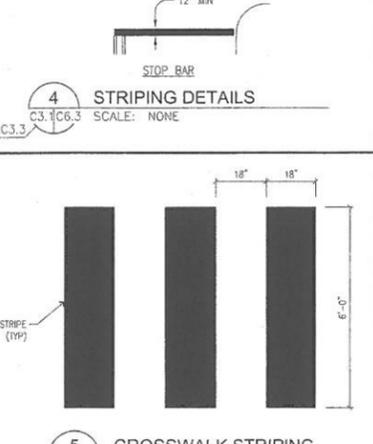
**2 TYPICAL PAVING SECTION-HEAVY**  
C3.2, C6.3 SCALE: NONE



**3 TYPICAL PAVING SECTION-LIGHT**  
C3.2, C6.3 SCALE: NONE



**4 STRIPING DETAILS**  
C3.2, C6.3 SCALE: NONE



**5 CROSSWALK STRIPING**  
C3.2, C6.3 SCALE: NONE

**C6.3**

PROJ NO: 11456-11009  
DRWN: CHKD

**WEST LINN WILSONVILLE SCHOOL DISTRICT  
WEST LINN HIGH SCHOOL  
STUDENT PARKING LOT IMPROVEMENTS**

**CIVIL DETAILS**

DATE: 05/06/2013  
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ISSUE

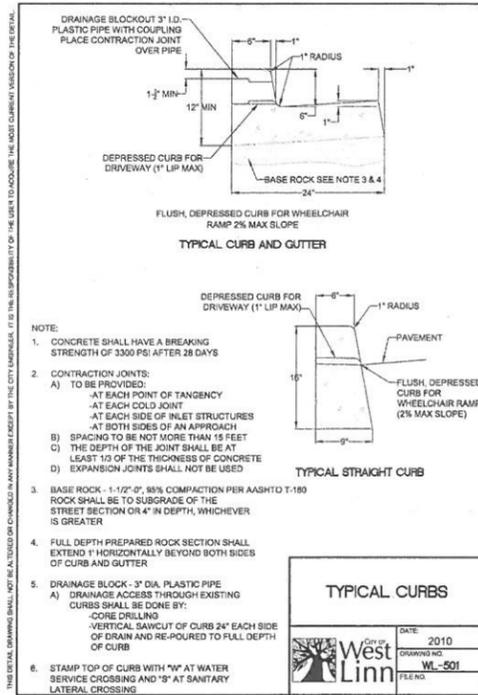
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BAR IS ONE INCH ON ORIGINAL DRAWING

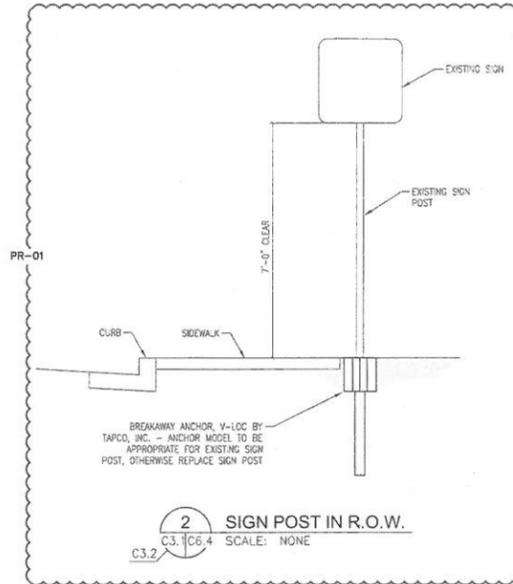
1" = 12"

0 1" 2" 3" 4" 5" 6" 7" 8" 9" 10"

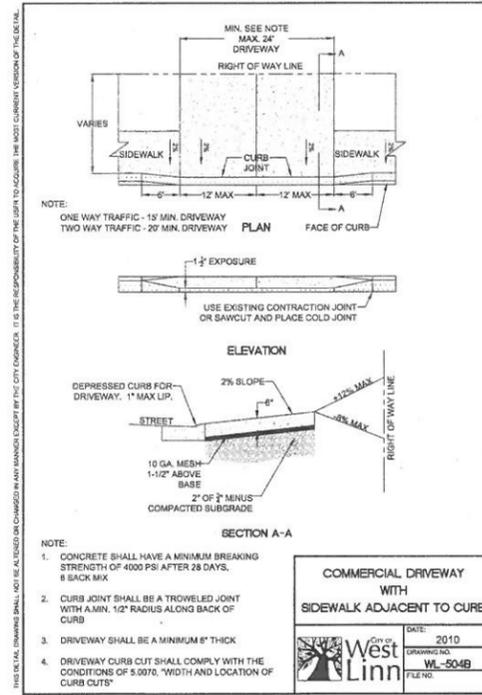
11456-11009-06 3 of 6



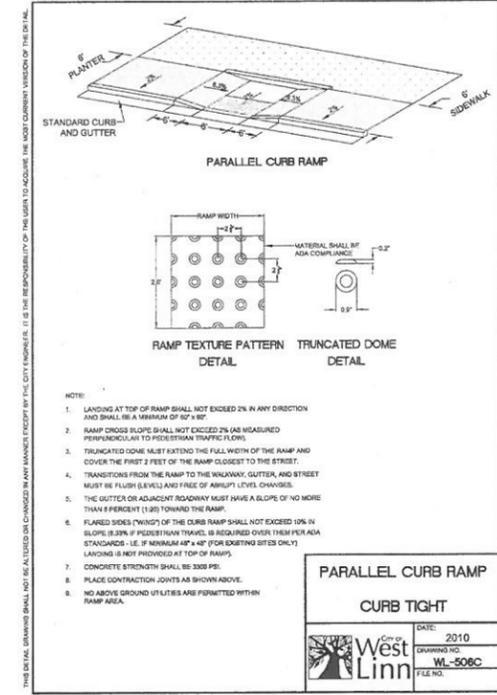
1 TYPICAL CURBS  
C3.2, C6.4 SCALE: NTS



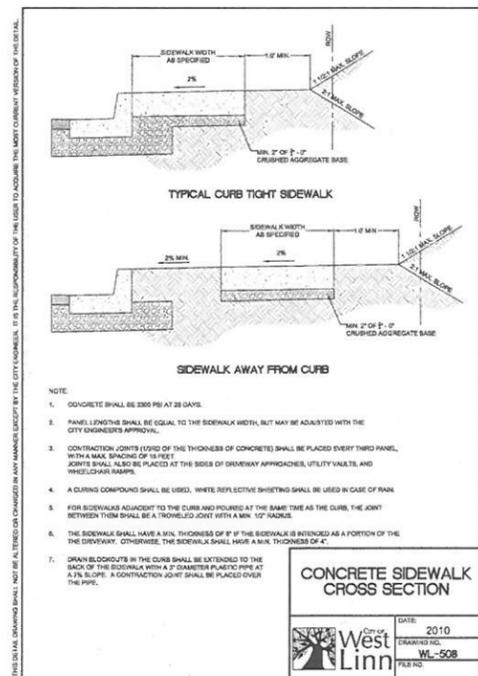
2 SIGN POST IN R.O.W.  
C3.2, C6.4 SCALE: NONE



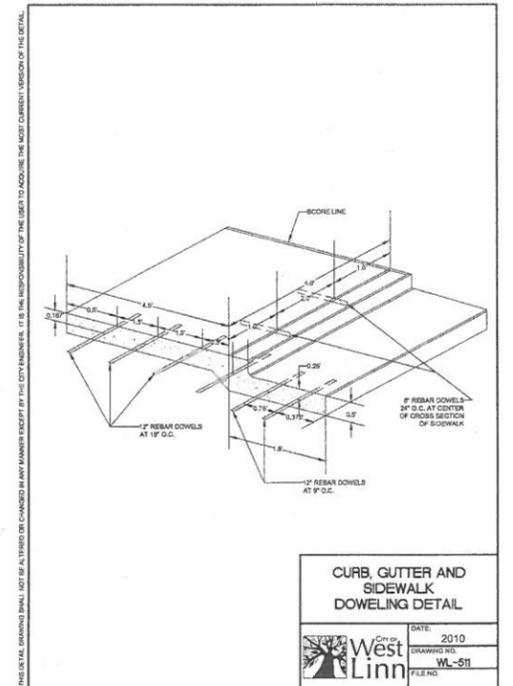
3 COMMERCIAL DRIVEWAY  
C3.2, C6.4 SCALE: NTS



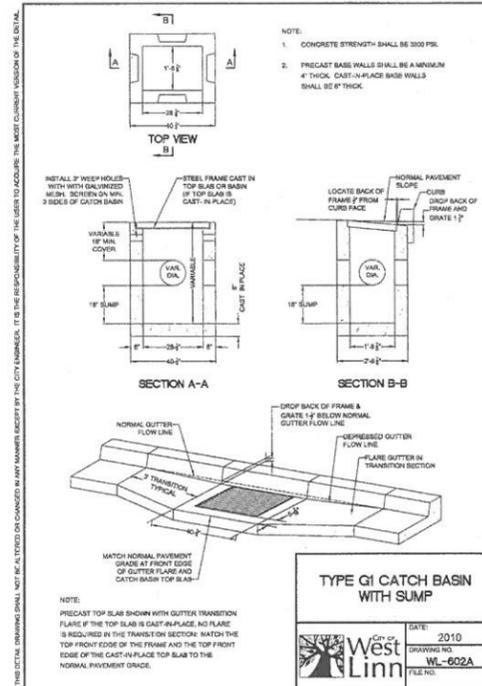
4 CURB RAMP  
C3.2, C6.4 SCALE: NTS



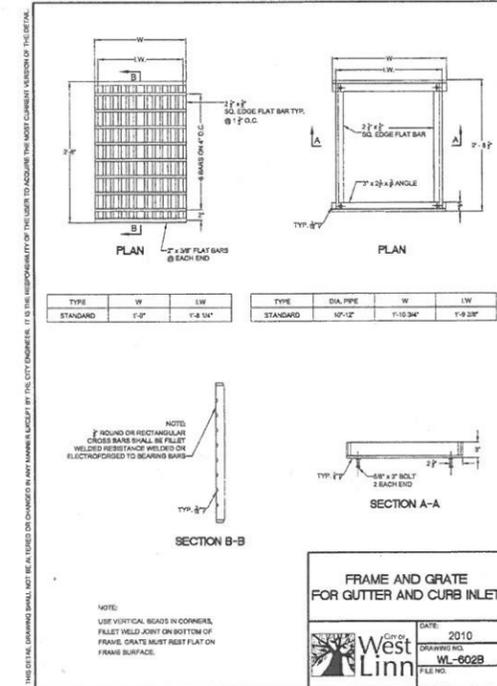
5 TYPICAL SIDEWALK  
C3.2, C6.4 SCALE: NTS



6 CONCRETE DOWELING  
C6.4 SCALE: NTS



7 CATCH BASIN  
C5.1, C6.4 SCALE: NTS



8 CATCH BASIN FRAME AND GRATE  
C6.4, C6.4 SCALE: NTS

MARK	DATE	DESCRIPTION	ISSUE
PR-01	05/09/2013	PROPOSAL REQUEST #1	
03/05/2013		PERMIT SUBMITTAL	

**WEST LINN WILSONVILLE SCHOOL DISTRICT  
WEST LINN HIGH SCHOOL  
STUDENT PARKING LOT IMPROVEMENTS  
CIVIL DETAILS**



**STRUCTURAL NOTES**

- THE GOVERNING CODE IS THE 2009 INTERNATIONAL BUILDING CODE (IBC), AS AMENDED BY THE STATE OF OREGON.
- UNLESS OTHERWISE NOTED, MATERIAL AND DESIGN SPECIFICATIONS CITED HEREIN SHALL BE THOSE CONFORMING TO THE VERSION OF THE APPLICABLE SPECIFICATION OR CODE MOST RECENTLY ADOPTED BY THE PERMITTING AUTHORITY. THESE STRUCTURAL NOTES ARE TO BE USED AS A SUPPLEMENT TO THE SPECIFICATIONS.
- GENERAL CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS AND EXISTING (E) MEMBERS, DIMENSIONS, AND ELEVATIONS.
- SHOP DRAWINGS AND PRODUCT INFORMATION:
  - SHOP DRAWINGS SHALL BE REQUIRED ON REINFORCING STEEL.
  - SHOP DRAWINGS REVIEW DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE ENGINEER OF RECORD AND MUST BE VERIFIED BY THE CONTRACTOR. CONTRACTOR SHALL REVIEW AND STAMP SHOP DRAWINGS PRIOR TO REVIEW BY ENGINEER OF RECORD. SUBMIT ONE COPY AND ONE REPRODUCIBLE FOR REVIEW; THE REPRODUCIBLE WILL BE MARKED AND RETURNED.
- CONSTRUCTION METHODS AND PROJECT SAFETY:
  - THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE METHODS, PROCEDURES OR SEQUENCE OF CONSTRUCTION.
  - THIS STRUCTURE AND ALL OF ITS PARTS MUST BE ADEQUATELY BRACED AGAINST WIND AND LATERAL EARTH AND SEISMIC FORCES UNTIL THE PERMANENT LATERAL FORCE RESISTING SYSTEMS HAVE BEEN CONSTRUCTED AND ALL ATTACHMENTS AND CONNECTIONS NECESSARY FOR THE STABILITY OF THE STRUCTURE AND ITS PARTS HAVE BEEN MADE.
  - THE ENGINEER WILL NOT ENFORCE SAFETY MEASURES OR REGULATIONS. CONTRACTOR SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES.
- THESE DRAWINGS AND THE SUPPORTING SPECIFICATIONS AND STRUCTURAL CALCULATIONS DEVELOPED BY THE STRUCTURAL ENGINEER SHALL ONLY BE USED FOR THIS PROJECT AND AT THE LOCATION SPECIFIED HEREON. THE STRUCTURAL ENGINEER DISCLAIMS ALL LIABILITY IF THESE DRAWINGS, SPECIFICATIONS, AND STRUCTURAL CALCULATIONS PERTAINING TO THIS PROJECT ARE USED ON ANY OTHER PROJECT OR AT ANY OTHER LOCATION.
- FIELD ENGINEER DETAILS DEVELOPED BY THE CONTRACTOR THAT DIFFER FROM, OR ADD TO, THE STRUCTURAL DRAWINGS SHALL BE STAMPED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE OF OREGON AND SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO IMPLEMENTATION/FABRICATION.
- DO NOT SCALE INFORMATION FROM THE DRAWINGS.
- SPECIAL INSPECTION IS REQUIRED AS NOTED BELOW:

SPECIAL INSPECTION PROGRAM  
ESTABLISHED IN ACCORDANCE WITH THE 2009 IBC,  
SECTIONS 104.4, 110 & CHAPTER 17

SOILS	ITEM	CONTINUOUS	PERIODIC	COMMENTS
GRAVING, EXCAVATION & FILL				BY GEOTECHNICAL ENGINEER
FINAL FOUNDATION PREPARATION				BY GEOTECHNICAL ENGINEER
STRUCTURAL CONCRETE				
REBAR PLACEMENT			X	
CONCRETE PLACEMENT		X		
VERIFY USE OF REQUIRED DESIGN MIX			X	
PREPARATION OF CONCRETE TEST SPECIMENS (STRENGTH, SLUMP, AIR)		X		

**NOTES PERTAINING TO THE SPECIAL INSPECTION TABLE:**

- SPECIAL INSPECTOR:** A QUALIFIED PERSON WHO DEMONSTRATES HIS COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL FOR INSPECTION OF A PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. THE SPECIAL INSPECTOR SHALL BE EMPLOYED BY THE OWNER.
- THE TERM "CONTINUOUS," AS STATED ABOVE, SHALL MEAN THE SPECIAL INSPECTOR IS ON THE SITE AND IN THE GENERAL AREA AT ALL TIMES, OBSERVING THE WORK REQUIRING SPECIAL INSPECTION. THE TERM "PERIODIC" MEANS THAT THE SPECIAL INSPECTOR IS ON SITE AT THE INTERVALS NECESSARY TO CONFIRM THAT THE WORK REQUIRING SPECIAL INSPECTION IS IN CONFORMANCE WITH APPROVED PERMIT PLANS AND SPECIFICATIONS.
- DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:**
  - OBSERVES THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPLICABLE DESIGN DRAWINGS AND SPECIFICATIONS.
  - FURNISHES INSPECTION REPORTS TO THE BUILDING OFFICIAL, ENGINEER OR ARCHITECT OF RECORD, AND OTHER DESIGNATED PERSONS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. THEN, IF UNCORRECTED, TO THE PROPER DESIGN AUTHORITY AND BUILDING OFFICIAL.
  - SUBMITS A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE GOVERNING CODE.
- DUTIES AND RESPONSIBILITIES OF THE CONTRACTOR REGARDING SPECIAL INSPECTION:**
  - THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE SPECIAL INSPECTOR WHEN ITEMS NOTED ABOVE ARE TO BE INSPECTED.
  - THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE SPECIAL INSPECTOR ACCESS TO ITEMS REQUIRING SPECIAL INSPECTION.

**SITE PREPARATION & STRUCTURAL FILL OR BACKFILL**

- CONSULT THE SPECIFICATIONS AND FOUNDATION INVESTIGATION REPORT, WHICH IS AVAILABLE AT THE CONSTRUCTION MANAGER'S OFFICE, FOR ADDITIONAL INFORMATION.

**FOUNDATIONS**

- FOUNDATIONS SIZES ARE BASED ON A TOTAL LOAD BEARING SOIL PRESSURE OF 2,500 PSF.
- FOOTINGS SHALL BE FOUNDED ON FIRM UNDISTURBED ORIGINAL SOIL OR ON STRUCTURAL GRANULAR FILL COMPACTED TO MINIMUM OF 95% OF THE ASTM D1557 DENSITY AS REQUIRED BY THE FOUNDATION INVESTIGATION REPORT.
- REMOVE DISTURBED SOIL BY HAND OPERATION, FROM FOOTING EXCAVATION TO NEAT LINES.
- BOTTOM OF FOOTINGS SHALL BE STEPPED FROM ELEVATION TO ELEVATION AT 1'-0" VERTICAL TO 2'-0" HORIZONTAL.
- THE FOUNDATION INVESTIGATION REPORT SHOWING LOGS OF BORINGS AND OTHER PERTINENT DATA IS AVAILABLE AT THE CONSTRUCTION MANAGER'S OFFICE FOR INSPECTION BY ALL QUALIFIED BIDDERS.

**CONCRETE REINFORCING STEEL**

- REINFORCING STEEL FOR CONCRETE: ASTM A615, GRADE 60.
- DETAIL, FABRICATE, AND PLACE REINFORCING STEEL IN ACCORDANCE WITH ACI DETAILING MANUAL 315.
  - ACCURATELY AND SECURELY PLACE REINFORCING STEEL. REINFORCEMENT SHALL BE FREE OF MUD, OIL, OR OTHER MATERIALS THAT REDUCE BOND.
  - DO NOT BEND OR DISPLACE REINFORCING FOR THE CONVENIENCE OF OTHER TRADES, UNLESS APPROVED BY THE STRUCTURAL ENGINEER.
  - MINIMUM COVER FROM CONCRETE SURFACES TO REINFORCING STEEL:

**FOOTINGS:**

3 INCH  
CONCRETE CAST AGAINST EARTH:  
3 INCH NOT FORMED  
2 INCH FORMED

**WALLS:**

2 INCH EXTERIOR FACE  
3/4 INCH INTERIOR FACE  
CENTERED BARS IN SINGLE CURTAIN

- REINFORCING LAP SPACES: REFER TO TABLE BELOW UNLESS NOTED OTHERWISE.

BAR SIZE	f <sub>c</sub> = 3000 PSI		f <sub>c</sub> = 4000 PSI		f <sub>c</sub> = 5000 PSI	
	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER
#3	23	22	24	19	22	17
#4	37	29	32	26	29	22
#5	47	36	40	31	36	28
#6	55	43	48	37	43	33
#7	61	48	54	44	51	39
#8	67	53	60	49	57	44
#9	73	58	66	54	63	49
#10	79	63	72	60	69	55
#11	85	69	78	67	75	61

**NOTES:**

- VALUES ABOVE ARE FOR GRADE 60 REINFORCING AND NORMAL WEIGHT CONCRETE.
- TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.

- FIELD BENDING: CONFORM TO ACI 301, SECTION 3.3.2.8. "FIELD BENDING OR STRAIGHTENING" BAR SIZES #3 THROUGH #5 MAY BE BENT COLD THE FIRST TIME. OTHER BARS REQUIRE PREHEATING. DO NOT TWIST BARS.

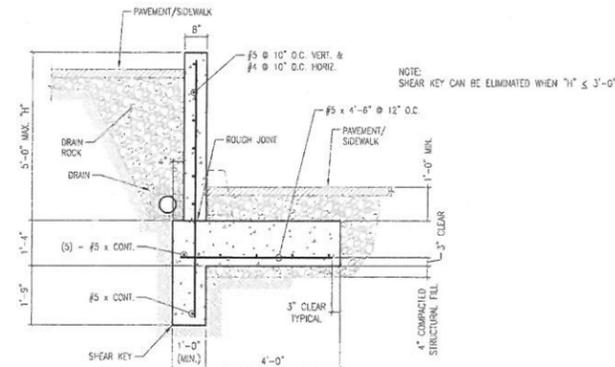
**CONCRETE - CAST-IN-PLACE**

- MIXES SHALL MEET OR EXCEED EACH REQUIREMENT SPECIFIED. WHERE STRENGTH, MINIMUM CEMENT CONTENT, AND MAXIMUM WATER/CEMENTITIOUS RATIO ARE SPECIFIED, THE MOST STRINGENT SHALL APPLY. FOR EXAMPLE, A MAXIMUM WATER/CEMENTITIOUS RATIO MIGHT RESULT IN A STRENGTH GREATER THAN THE MINIMUM SPECIFIED.

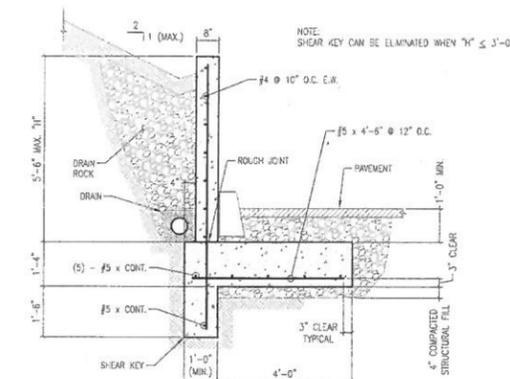
MIX DESIGN TYPE	f <sub>c</sub> (PSI)	MAX. W/CM RATIO (NOTE 5)	AIR ENTRAINMENT (%) ASTM C260	MIN. CEMENT CONTENT (LB/100')	MAX. SLUMP (INCHES)	COARSE AGG. SIZE (INCHES)	NOTES
FOOTINGS & WALLS	3500	0.55	NONE	540	5	3/4	1

**MIX DESIGN NOTES**

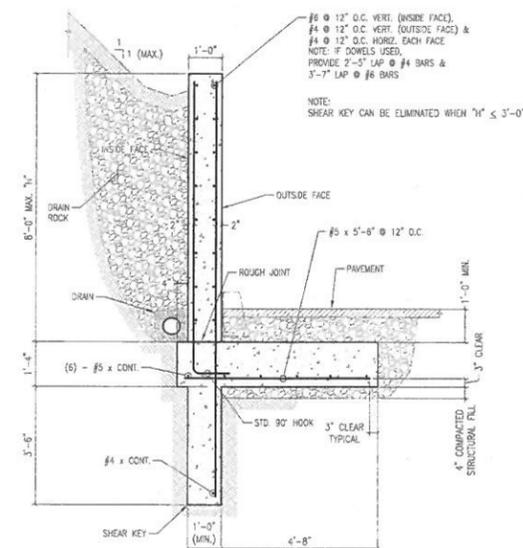
- MAXIMUM TARGET SLUMP ASSUMES ADMIXTURES INCLUDED, AS REQUIRED.
- W/CM = WATER/CEMENTITIOUS MATERIALS RATIO (OTHER CEMENTITIOUS MATERIALS INCLUDE: FLY ASH, OTHER POZZOLANS, AND SILICA FUME).
- PROVIDE A MINIMUM OF 3 CONCRETE TEST CYLINDERS FOR EACH 100 CUBIC YARDS, OR EACH DAY OF POUR FOR EACH CONCRETE STRENGTH. TEST CYLINDERS AS FOLLOWS: ONE AT SEVEN DAYS, TWO AT 28 DAYS. TAKE ONE ADDITIONAL TEST CYLINDER DURING COLD WEATHER CONCRETING, CURED ON THE PROJECT SITE UNDER THE SAME CONDITIONS AS THE CONCRETE IT REPRESENTS.
- CONCRETE CYLINDER SAMPLING AND TESTING: CONFORM WITH ASTM SPECIFICATIONS. ACCEPTANCE OF CONCRETE SHALL BE GOVERNED BY THE PROVISIONS OF ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". SUBMIT MIX DESIGNS, WITH COMPLETE STATISTICAL BACKUP, FOR REVIEW ACCORDING TO ACI 318, SECTION 5.3.
- CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS". A COPY OF ACI SP-15 "FIELD REFERENCE MANUAL", WHICH INCLUDES ACI 301, SHALL BE KEPT IN THE CONTRACTOR'S FIELD OFFICE AT ALL TIMES.
- CONCRETE SHALL BE BATCHED, MIXED, AND TRANSPORTED IN ACCORDANCE WITH ACI 301, CHAPTER 7. EACH TRUCK SHALL HAVE A TICKET SHOWING ACTUAL BATCH WEIGHTS OF MATERIALS IN ADDITION TO THE MAXIMUM AMOUNT OF WATER WHICH MAY BE ADDED AT THE SITE. THE TOTAL WATER IN THE MIX AT THE TIME OF PLACING, INCLUDING WATER ADDED AT THE SITE, SHALL NOT EXCEED THE AMOUNT PRE-APPROVED IN THE MIX DESIGN.
- PREPARE CONSTRUCTION JOINTS BETWEEN FOOTINGS AND WALLS BY ROUGHENING TO A FULL AMPLITUDE OF APPROXIMATELY 1/4", LEAVING THE CONTACT SURFACE CLEAN AND FREE OF LANTAGE. CONSTRUCTION JOINTS SHALL HAVE 2X KEYS WHERE INDICATED IN THE DRAWINGS. SUBMIT FOR REVIEW, DETAILS OF PROPOSED CONSTRUCTION JOINTS NOT DETAILED IN THE STRUCTURAL DRAWINGS.
- DO NOT PLACE CONCRETE ON FROZEN GROUND.
- EXPOSED CORNERS: 3/4" CHAMFER, UNLESS NOTED OTHERWISE.



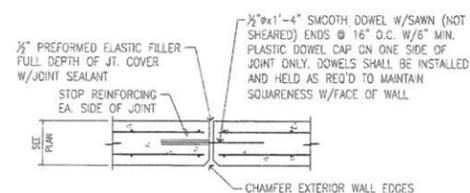
**1 RETAINING WALL TYPICAL SECTION**  
C4.1S1.1 SCALE: 1/2"=1'-0"



**2 RETAINING WALL TYPICAL SECTION**  
C4.1S1.1 SCALE: 1/2"=1'-0"



**3 RETAINING WALL SECTION**  
C4.2S1.1 SCALE: 1/2"=1'-0"



**CONCRETE WALL CONTROL JOINT**

**4 PLAN-SECTION**  
C4.1S1.1 SCALE: 1"=1'-0"

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	8/10/12	PERMIT SUBMITTAL	

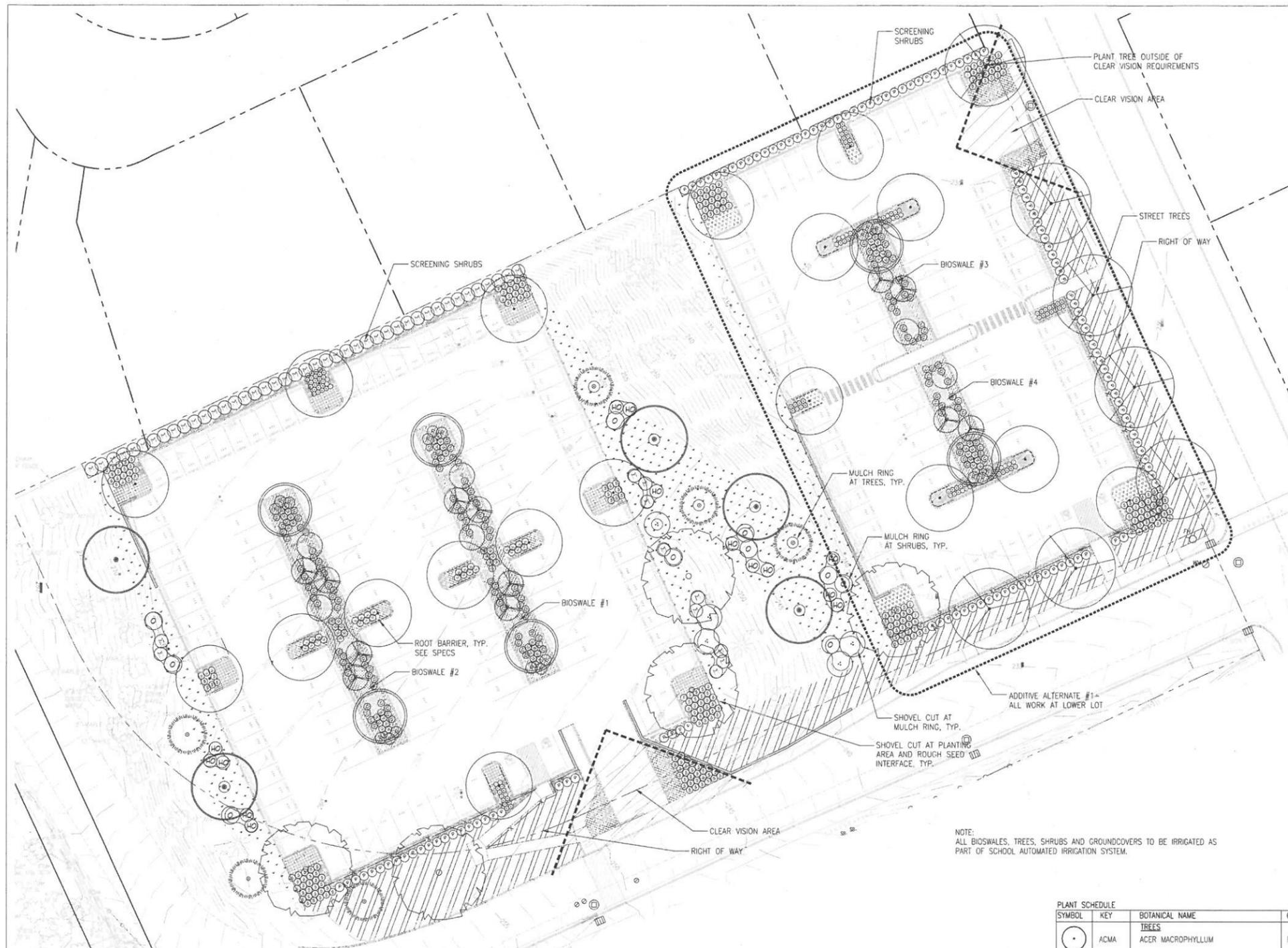
WEST LINN WILSONVILLE SCHOOL DISTRICT  
WEST LINN HIGH SCHOOL  
STUDENT PARKING LOT IMPROVEMENTS

STRUCTURAL NOTES,  
WALL SECTIONS & DETAILS

PROJ. NO: 11456-11009  
DRWN: KPT CHD: DB

# S1.1

SHEET OF



**PLANTING NOTES:**

- CONTRACTOR TO VERIFY LOCATION OF EXISTING TREES INDICATED TO REMAIN PRIOR TO SOIL PREPARATION. PROTECT ALL TREES AND SHRUBS INDICATED TO REMAIN. COORDINATE WITH THE OWNER'S REPRESENTATIVE.
- PLANTING AREAS TO BE SUFFICIENTLY CLEANED OF ALL CONSTRUCTION MATERIALS, INCLUDING IMPORTED ROCK, TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE BEFORE BEGINNING ANY LANDSCAPE WORK. CONTRACTOR SHOULD EXPECT TO ENCOUNTER SOLID BASALT ROCK AND / OR LARGE BOULDERS IN THE WESTERN PARKING LOT DURING EXCAVATIONS THAT EXCEED 2 FEET BELOW THE EXISTING SURFACE.
- IDENTIFY ALL PLANTING AREAS IN FIELD WITH WHITE FIELD-MARKING CHALK OR APPROVED EQUAL. PLANTING BEDS TO BE ADJUSTED AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO PLANT LOCATION.
- FOR PLANTING OCCURRING IN MASSES OF SAME SPECIES PLANT, LABELING REFERS TO ALL ADJACENT IDENTICAL SYMBOLS. REFER TO DETAILS AND LEGEND FOR SPACING INFORMATION.
- THE OWNER'S REPRESENTATIVE WILL APPROVE INDIVIDUAL PLANT MATERIAL AND LOCATION OF PLANT MATERIAL PRIOR TO INSTALLATION. REFER TO SPECIFICATIONS FOR PROCEDURE.
- SHRUBS AND GROUNDCOVER TO BE PLANTED A MINIMUM OF ONE-HALF THEIR ON CENTER SPACING AWAY FROM PAVEMENT EDGES, UNLESS OTHERWISE NOTED.
- PROVIDE ROOT BARRIER AROUND ALL TREES WITHIN 5' OF PAVING, CURBS, WALLS, BUILDINGS, UTILITY DUCTS, OTHER APPURTENANCES AND AS SHOWN.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING PLANTS IN QUANTITIES AND LOCATIONS SHOWN ON DRAWINGS.
- PROVIDE JUTE NETTING ON ALL SLOPES WITH GRADIENT OF 3:1 OR GREATER AS DIRECTED IN THE FIELD BY THE OWNER'S REPRESENTATIVE. STAPLE FABRIC TO GROUND WITH METAL STAKES AT 4' O.C.

**WATER QUALITY PLANT TABLE** (Per Portland Stormwater Management Manual)

- WATER QUALITY PLANTING TO CONFORM TO CITY OF PORTLAND STORMWATER MANAGEMENT MANUAL (SWMM) FOR SWALE FACILITIES, MINIMUM CONTAINER SIZE TO BE 1 GALLON AT THE FOLLOWING RATE.
  - ZONE A: Swale Bottom: 115 herbaceous plants OR 100 herbaceous plants and 4 small shrubs per 100sf.
  - ZONE B: Side Slope: 1 deciduous tree, AND 3 large shrubs/small trees AND 4 small shrubs AND 140 ground cover shrubs per 100sf.
- SEE PLANTING SCHEDULE FOR SPACING.
- ZONE A: BASIN PLANTINGS TO BE PLANTED IN DRIFTS OF SAME SPECIES PLANTS IN GROUPS OF 15, 25, 35 PLANTS.
- ZONE B: SHRUBS TO BE PLANTED IN GROUPS OF SAME SPECIES PLANTS AS SHOWN.

- BIOSWALE #1**  
 ZONE A - 565sf: 565 herbaceous 1 gallon plants AND 23 shrubs provided.  
 ZONE B - 730sf: 8 deciduous trees, AND 51 shrubs AND 1022 groundcover provided.
- BIOSWALE #2**  
 ZONE A - 565sf: 565 herbaceous 1 gallon plants AND 23 shrubs provided.  
 ZONE B - 730sf: 8 deciduous trees, AND 51 shrubs AND 1022 groundcover provided.
- BIOSWALE #3**  
 ZONE A - 255sf: 255 herbaceous 1 gallon plants AND 11 shrubs provided.  
 ZONE B - 360sf: 4 deciduous trees, AND 26 shrubs AND 504 groundcover provided.
- BIOSWALE #4**  
 ZONE A - 255sf: 255 herbaceous 1 gallon plants AND 11 shrubs provided.  
 ZONE B - 360sf: 4 deciduous trees, AND 26 shrubs AND 504 groundcover provided.

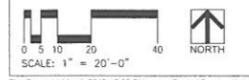
NOTE: ALL BIOSWALES, TREES, SHRUBS AND GROUNDCOVERS TO BE IRRIGATED AS PART OF SCHOOL AUTOMATED IRRIGATION SYSTEM.

**STORMWATER PLANTING SCHEDULE**

SYMBOL	KEY	BOTANICAL NAME	COMMON NAME	SIZE/CONDITION	SPACING	COMMENTS	DTL/SHEET
<b>ZONE A (HERBACEOUS)</b>							
50%	CAOB	CAREX OBNUPTA	SLOUGH SEDGE	1 GAL.	12" O.C.		5/L3
25%	CAMO	SCRIPITUS MICROCARPUS	SMALL FRUITED BULRUSH	1 GAL.	12" O.C.		5/L3
25%	JUEN	JUNCUS PATENS 'ELK BLUE'	COMMON RUSH	1 GAL.	12" O.C.		5/L3
<b>TREES</b>							
	ALRU	ALNUS RUBRA	RED ALDER	1-1/2" CAL./B&B	AS SHOWN	MATCHED STANDARDS-6' MIN. BRANCHING HT.	1/L3
	AMAL	AMELANCHIER ALNIFOLIA	WESTERN SERVICEBERRY	5-6' HT. /B&B	AS SHOWN	NATURAL MULTI-STEMMED	1/L3
	ACCI	ACER CIRCINATUM	VINE MAPLE	5-6' HT. /B&B	AS SHOWN	NATURAL MULTI-STEMMED	1/L3
<b>SHRUBS</b>							
	RISA	RIBES SANGUINEUM	RED FLOWERING CURRENT	1 GAL. CONT.	AS SHOWN		5/L3
	CLAL	CLETHRA ALNIFOLIA 'HUMMINGBIRD'	HUMMINGBIRD SUMMERSWEET	1 GAL. CONT.	AS SHOWN		5/L3
	COKE	CORNUS SERICEA 'KELSEYI'	DWARF REDTWIG DOGWOOD	1 GAL. CONT.	AS SHOWN		5/L3
<b>GROUNDCOVER</b>							
50%	ARUV	ARCTOSTAPHYLLUS UVA-URSI	KINNIKINNICK	1 GAL. CONT.	10" O.C.	PLANTED IN RANDOM DRIFTS OF 25-50	5/L3
50%	MARE	MAHONIA REPENS	CASCADE OREGON GRAPE	1 GAL. CONT.	10" O.C.		5/L3

**PLANT SCHEDULE**

SYMBOL	KEY	BOTANICAL NAME	COMMON NAME	SIZE/CONDITION	SPACING	COMMENTS	DTL/SHEET
<b>TREES</b>							
	ACMA	ACER MACROPHYLLUM	BIG LEAF MAPLE	1-1/2" CAL./B&B	AS SHOWN	MATCHED STANDARDS-6' MIN. BRANCHING HT.	1/L3
	ZESE	ZELKOVA SERRATA 'GREEN VASE'	ZELKOVA TREE	2" CAL./B&B	AS SHOWN	MATCHED STANDARDS-6' MIN. BRANCHING HT.	1/L3
	FRPE	FRAXINUS PENNSYLVANICA 'MARSHALL'	MARSHALL GREEN ASH	2" CAL./B&B	AS SHOWN	MATCHED STANDARDS-6' MIN. BRANCHING HT.	1/L3
	QUMA	QUERCUS MACROCARPA	BUR OAK	2" CAL./B&B	AS SHOWN	MATCHED STANDARDS-6' MIN. BRANCHING HT.	1/L3
	PSME	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	6"-8" HT. / B&B	AS SHOWN		2/L3
	AMAL	AMELANCHIER ALNIFOLIA	WESTERN SERVICEBERRY	5-6' HT. /B&B	AS SHOWN	NATURAL MULTI-STEMMED	1/L3
<b>SHRUBS</b>							
	PHLE	PHILADELPHUS LEWISII	WILD MOCK ORANGE	3 GAL. CONT.	AS SHOWN		5/L3
	PRLA	PRUNUS LAUROCERASUS 'OTTO LUYKEN'	OTTO LUYKEN CHERRY LAUREL	3 GAL. CONT.	AS SHOWN		5/L3
	NADD	NANDINA DOMESTICA 'WOODS DWARF'	DWARF HEAVENLY BAMBOO	1 GAL. CONT.	AS SHOWN		5/L3
	SPJA	SPIREA JAPONICA 'LITTLE PRINCESS'	LITTLE PRINCESS SPIREA	1 GAL. CONT.	AS SHOWN		5/L3
	OMCE	OEMELERIA CERACIFORMIS	INDIAN PLUM	3 GAL. CONT.	AS SHOWN		5/L3
	HODI	HOLODISCUS DISCOLOR	OCEANSPRAY	3 GAL. CONT.	AS SHOWN		5/L3
<b>GROUNDCOVER</b>							
	70%	ARCTOSTAPHYLLUS UVA-URSI	KINNIKINNICK	1 GAL.	18" O.C.	PLANT FERNS IN RANDOM CLUMPS OF 3-5	5/L3
	30%	POLYSTICUM MUNITUM	SWORD FERN	1 GAL.	18" O.C.		5/L3
	ARUV	ARCTOSTAPHYLLUS UVA-URSI	KINNIKINNICK	1 GAL.	18" O.C.		5/L3
	FRCH	FRAGARIA CHILOENSIS	COASTAL STRAWBERRY	1 GAL.	18" O.C.		5/L3
	70%	MAHONIA REPENS	CASCADE OREGON GRAPE	1 GAL.	18" O.C.	PLANT FERNS IN RANDOM CLUMPS OF 3-5	5/L3
	30%	POLYSTICUM MUNITUM	SWORD FERN	1 GAL.	18" O.C.		5/L3
	MARE	MAHONIA REPENS	CASCADE OREGON GRAPE	1 GAL.	18" O.C.		5/L3
	RUCA	RUBUS CALCYNOIDES	CREeping BRAMBLE	1 GAL.	18" O.C.		5/L3
<b>LAWN</b>							
		NON-IRRIGATED ROUGH SEED					
<b>MULCH</b>							



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 15875 SW  
 1502 228 9821 F 1 503 228 3926  
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**WEST LINN WILSONVILLE SCHOOL DISTRICT  
 WEST LINN HIGH SCHOOL  
 STUDENT PARKING LOT IMPROVEMENTS  
 PLANTING PLAN**

PROJ NO: 11456-11009

DRWN: CHKD:

**L1**

SHEET OF



**KEY NOTES**

- 1 REFER TO CIVIL FOR IRRIGATION METER, PIPING AND BACKFLOW PREVENTER.
- 2 IRRIGATION LINES SHOWN IN PAVED AREA FOR GRAPHIC CLARITY ONLY; INSTALL IN ADJACENT LANDSCAPE AREA.
- 3 INSTALL AIR RELIEF VALVE AT HIGHPOINT OF LATERAL.

**IRRIGATION NOTES**

1. THE CONTRACTOR SHALL INSPECT THE SITE AND VERIFY CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION. NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY OF ANY DISCREPANCIES AFFECTING SYSTEM PERFORMANCE PRIOR TO BEGINNING WORK.
2. INSTALL IRRIGATION SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES.
3. IRRIGATION LINES SHOWN WITHIN PAVED AREAS ARE FOR GRAPHIC CLARITY ONLY. IRRIGATION HEADS AND PIPES ARE TO BE PLACED WITHIN LANDSCAPED AREAS WITH THEIR LOCATIONS MODIFIED AS REQUIRED TO AVOID PLANT MATERIALS, UTILITIES AND OTHER OBSTRUCTIONS. PLACE LINES IN COMMON TRENCHES WHERE POSSIBLE. CONTRACTOR SHOULD EXPECT TO ENCOUNTER SOLID BASALT ROCK AND / OR LARGE BOULDERS IN THE WESTERN PARKING LOT DURING EXCAVATIONS THAT EXCEED 2 FEET BELOW THE EXISTING SURFACE.
4. COORDINATE ALL IRRIGATION WORK WITH OTHER TRADES INVOLVED. COORDINATE IRRIGATION P.O.C. AND LOCATION OF AUTOMATIC CONTROLLER.
5. ALL VALVE BOXES WILL BE PLACED IN A MANNER WHICH FACILITATES ACCESS FOR MAINTENANCE. LOCATE VALVE BOXES IN PLANTING AREAS WHEREVER POSSIBLE. SIZE BOXES TO ACCOMMODATE COMPLETE VALVE ASSEMBLY INCLUDING UNIONS.
6. ALL COMPONENTS OF IRRIGATION SYSTEM SHALL BE INSTALLED AND ADJUSTED TO PROVIDE ADEQUATE COVERAGE AND ELIMINATE OVERSPRAY ONTO BUILDINGS, ROADS AND WALKWAYS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE WORKING SYSTEM.
7. CONTRACTOR SHALL VERIFY STATIC PRESSURE AT P.O.C. PRIOR TO COMMENCING WORK. NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY IF ACTUAL FIELD DATA DIFFERS FROM THIS INFORMATION.
8. THIS SYSTEM REQUIRES A MINIMUM STATIC PRESSURE OF 80 P.S.I. AND A MAXIMUM FLOW OF 16 GPM. HEAD LAYOUT AND ZONES ARE BASED ON THIS DATA AND DATA SHOWN IN IRRIGATION SCHEDULE. NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WORK IF ACTUAL FIELD DATA DIFFERS FROM THIS INFORMATION.
9. SIZE IRRIGATION LATERALS AT VALVE AND CONTINUING IN DIRECTION OF FLOW. ALL LATERALS SHALL BE MINIMUM 3/4" OR SAME SIZE AS NEAREST UPSTREAM PIPE.
10. INSTALL ALL IRRIGATION PIPES IN PVC SLEEVES BELOW ALL PAVED SURFACES. COORDINATE PLACEMENT OF SLEEVES WITH APPLICABLE TRADES.
11. GRADE MAIN AND LATERAL LINES TO DRAIN. PLACE MANUAL DRAINS AT LOW POINT IN MAINLINES. MINIMUM ONE PER VALVE.

VALVE KEY:

0.00	GALLONS PER MINUTE
X X.X"	VALVE SIZE
	CONTROLLER STATION NUMBER

**IRRIGATION EQUIPMENT SCHEDULE**

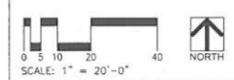
SYMBOL	DESCRIPTION	MANUF.	TYPE/MODEL	DTL/SHEET
P.O.C.	POINT OF CONNECTION	-	-	1/4
M	WATER METER	-	-	SEE CIVIL
Z	DOUBLE CHECK VALVE	-	-	SEE CIVIL
I	ISOLATION VALVE	APOLLO WAITS	70-140-10 (LINE SIZE) B6000-SS (LINE SIZE)	4/4
D	MANUAL DRAIN VALVE	NISCO CHAMPION	T-311-Y (1") 200RS-100 (1")	7/4
A	QUICK COUPLING VALVE	RAINBIRD	44NP (1")	3/4
F	DRIP MANUAL FLUSH VALVE	NISCO	4650-S WITH GHT ADAPTER	5/4
R	DRIP REMOTE CONTROL VALVE	RAINBIRD	XCZ-100-B-COM	6/4
S	SPRING CHECK VALVE	KBI	BPC-XXXX-S	
A	DRIP AIR RELIEF/ VACUUM VALVE	RAINBIRD	ARV-050	8/4
C	IRRIGATION CONTROLLER	RAINBIRD	ESP-SMT	2/4
---	MAINLINE (2-1/2" AND SMALLER) SIZE PER PLAN	PW EAGLE CRESLINE	SCH 40 PVC	13/4
---	LATERAL LINE, SIZE PER PLAN	PW EAGLE CRESLINE	CLASS 200 PVC	13/4
---	SLEEVE, SIZE 2 x PIPE DIA.	PW EAGLE CRESLINE	SCH 40 PVC OR ASTM 3034 SDR 35 SEWER PIPE	14/4
---	BLANK PE PIPING	RAINBIRD	XF SERIES	12/4
---	DRIP LINE W/ FLOW RATE OF 0.6 GPH (EMITTER INTERVAL TO MATCH PLANT SPACING- SEE PLANTING SCHEDULE)	RAINBIRD	XFD-06-18-XX	10/4
O	TREE EMITTERS RING (4 EMITTERS PER TREE @ 2.0 GPH) (2 EMITTERS PER SHRUB @ 2.0 GPH)	RAINBIRD	XB-20-PC	11-12/4

**LATERAL LINE SIZING CHART**

CLASS 200 PVC

3/4"	UP TO 10 GPM	2"	UP TO 55 GPM
1"	UP TO 16 GPM	2-1/2"	UP TO 80 GPM
1-1/2"	UP TO 35 GPM		

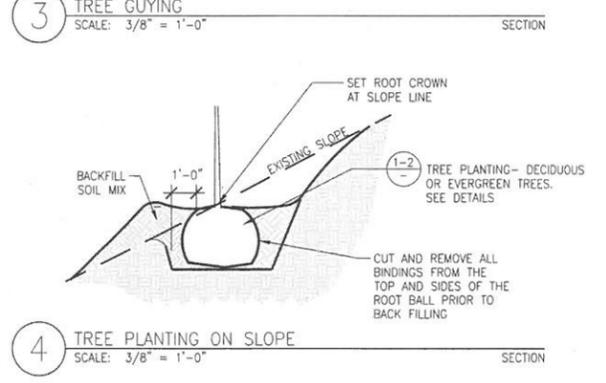
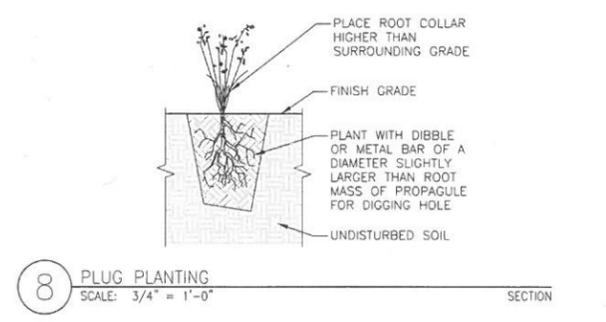
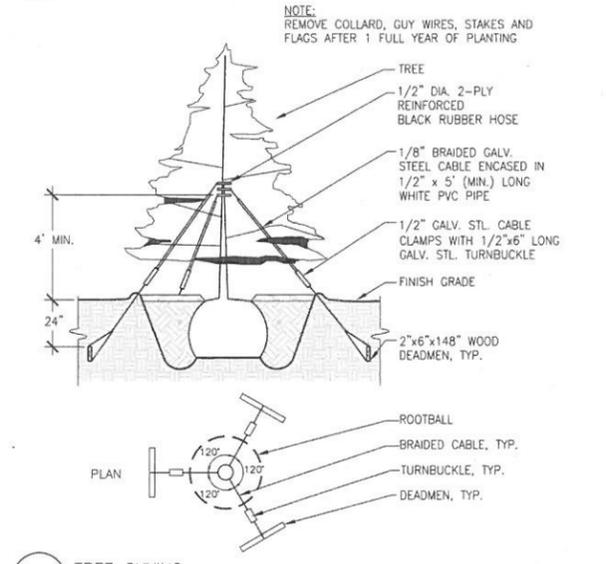
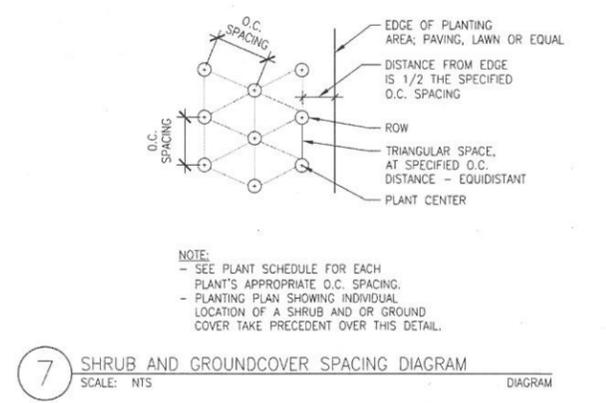
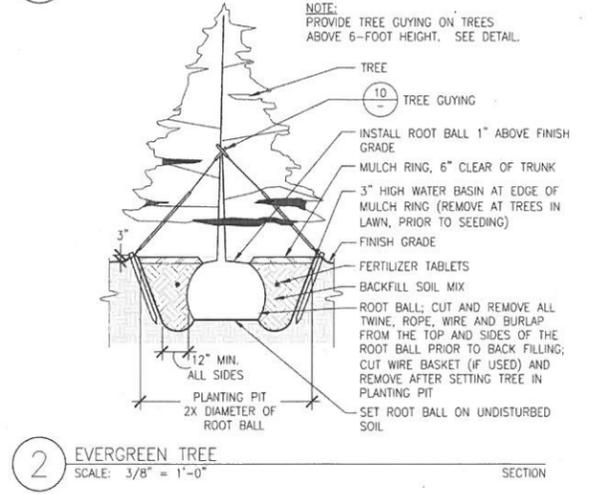
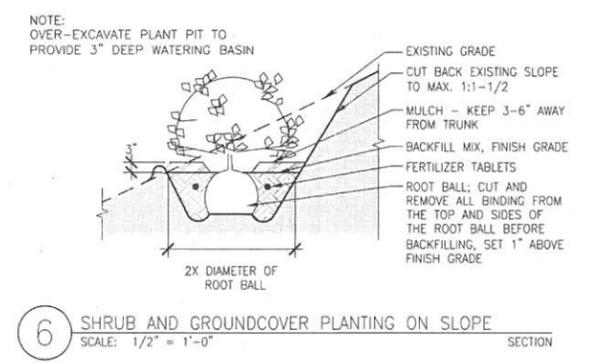
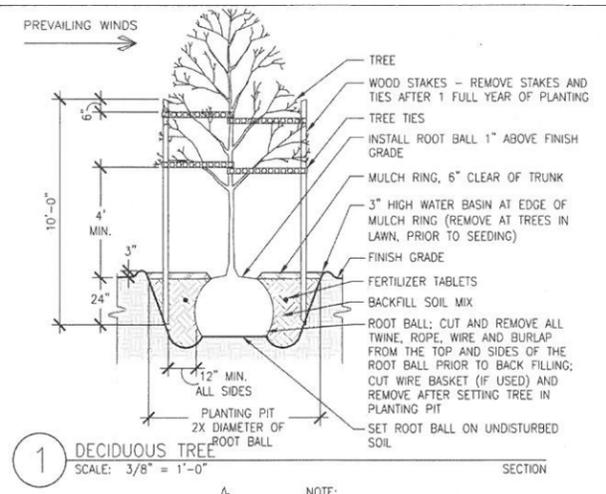
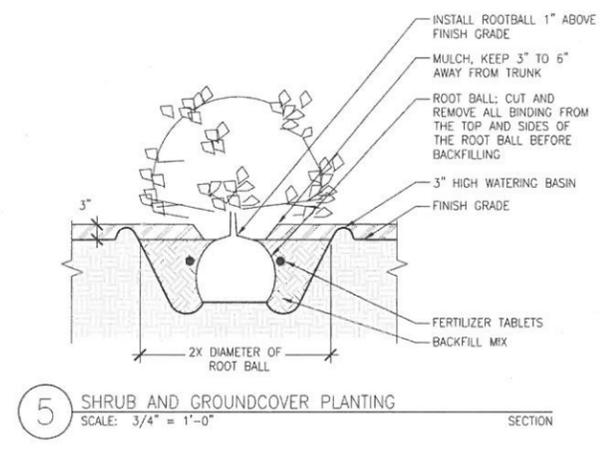
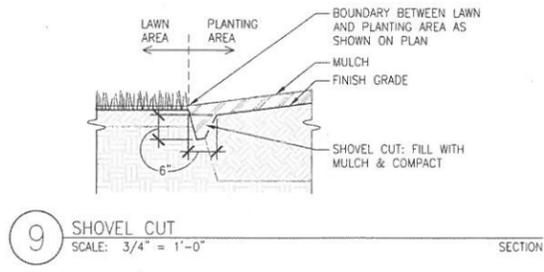
NOTE: VELOCITY THROUGH PIPE IS NOT TO EXCEED 4.5 FEET PER SECOND (FPS) IN ACCORDANCE WITH INDUSTRY STANDARD. PRESSURE LOSS DUE TO PIPE FRICTION IN ANY ONE CIRCUIT IS NOT TO EXCEED 10% OF AVAILABLE STATIC PRESSURE.



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**WEST LINN WILSONVILLE SCHOOL DISTRICT  
WEST LINN HIGH SCHOOL  
STUDENT PARKING LOT IMPROVEMENTS**

**IRRIGATION PLAN**



GHD Inc.  
11455 NE Portland Parkway, Suite 140 Portland Oregon 97224 USA  
T 503 228 3801 F 503 228 3820  
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BAR IS ONE INCH ON ORIGINAL DRAWING

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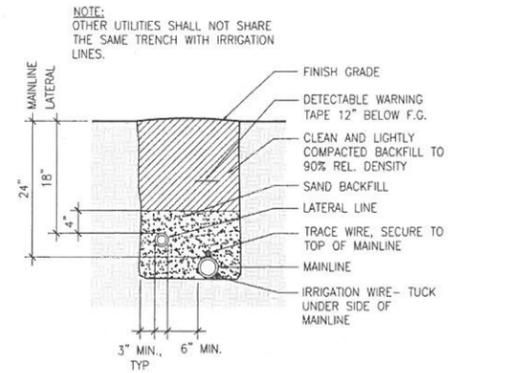
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	3/06/13			

**WEST LINN WILSONVILLE SCHOOL DISTRICT  
WEST LINN HIGH SCHOOL  
STUDENT PARKING LOT IMPROVEMENTS**

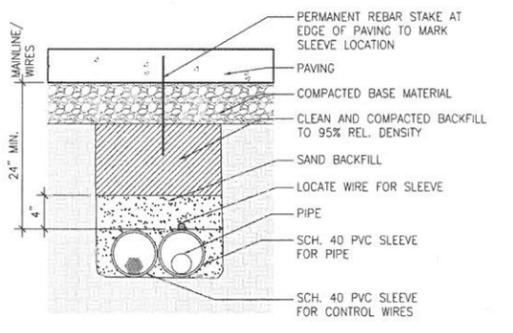
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PROJ NO: 11455-11009  
DRAWN: CHD  
SHEET OF

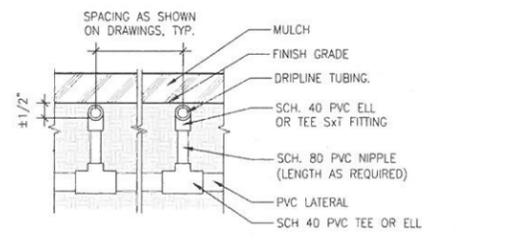
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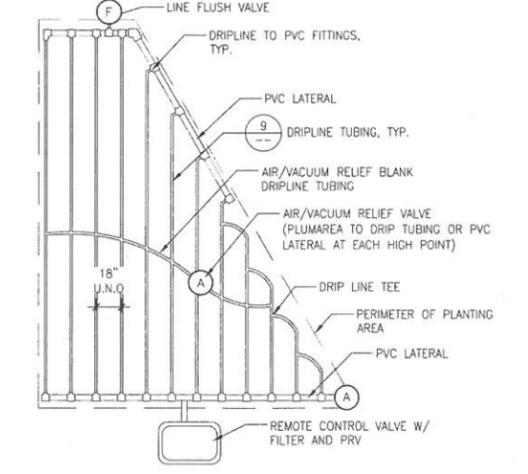
13 PIPE TRENCH  
SCALE: X" = 1'-0"



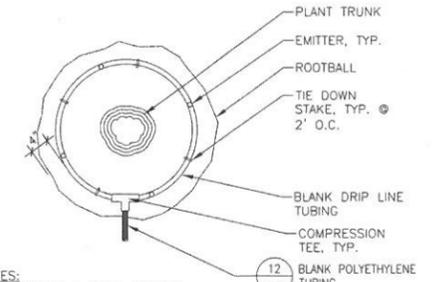
14 PIPE SLEEVE  
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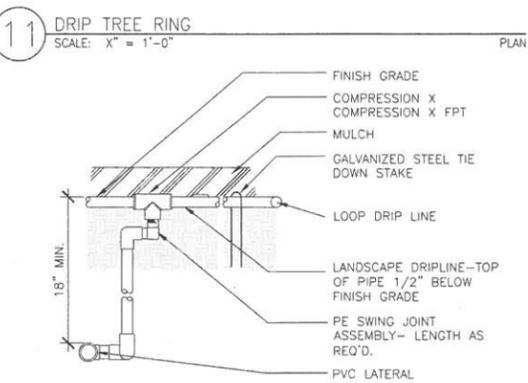
9 DRIP TUBING  
SCALE: X" = 1'-0"



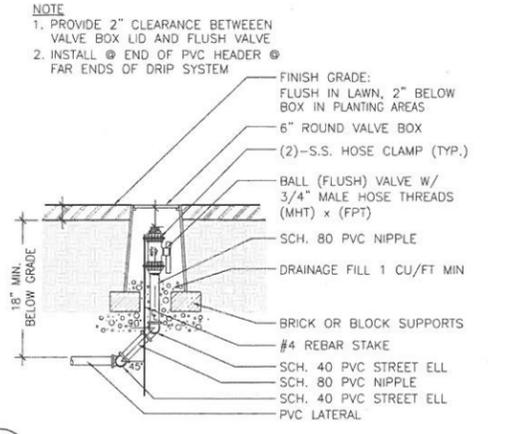
10 DRIPLINE LAYOUT  
SCALE: X" = 1'-0"



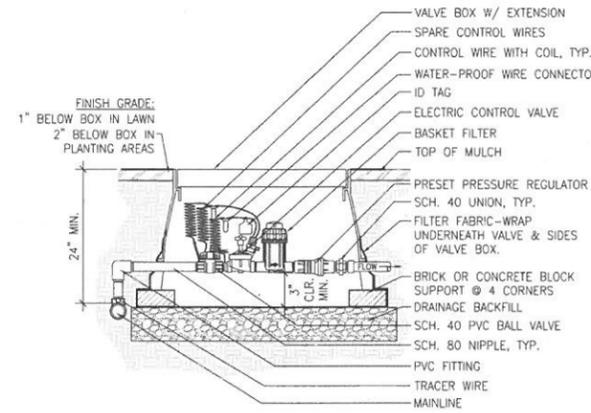
12 DRIP TREE RING  
SCALE: X" = 1'-0"



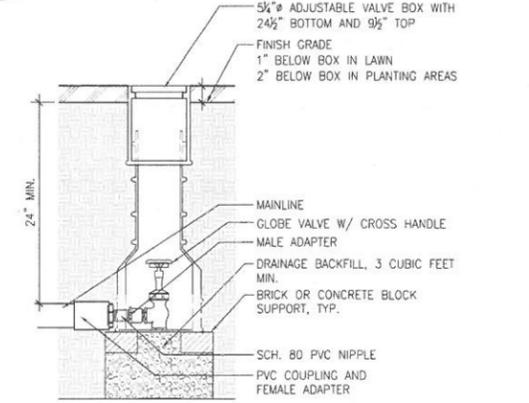
11 DRIP TREE RING  
SCALE: X" = 1'-0"



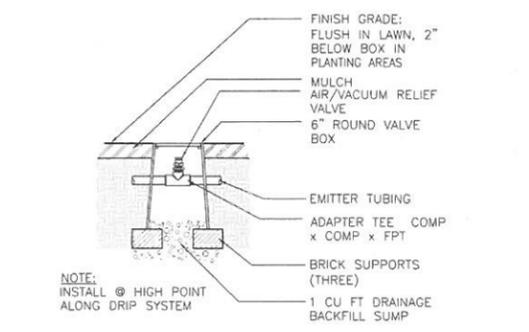
5 DRIP FLUSH VALVE  
SCALE: X" = 1'-0"



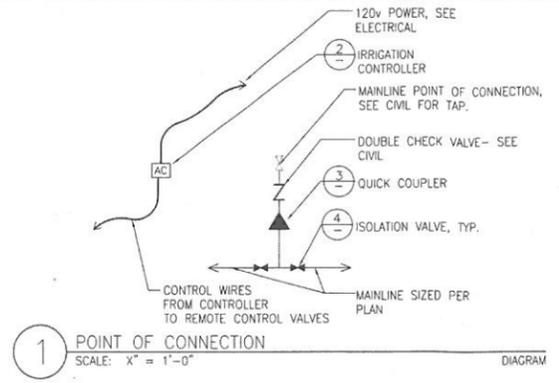
6 DRIP IRRIGATION REMOTE CONTROL VALVE  
SCALE: X" = 1'-0"



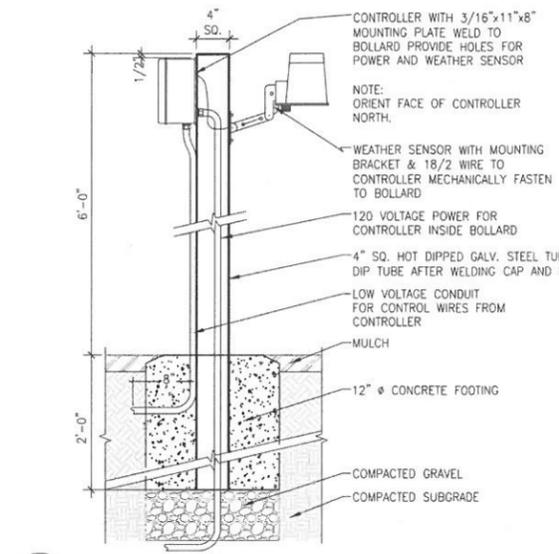
7 DRAIN VALVE  
SCALE: X" = 1'-0"



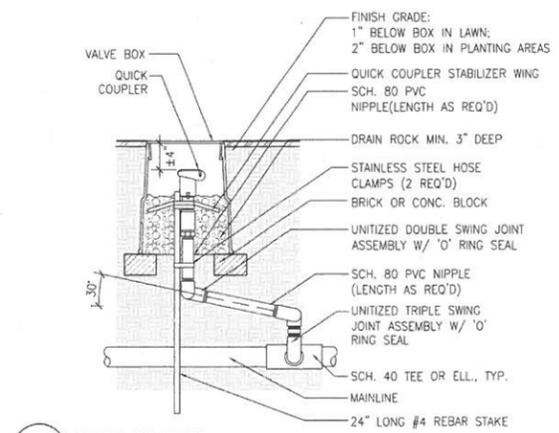
8 DRIP AIR RELIEF  
SCALE: X" = 1'-0"



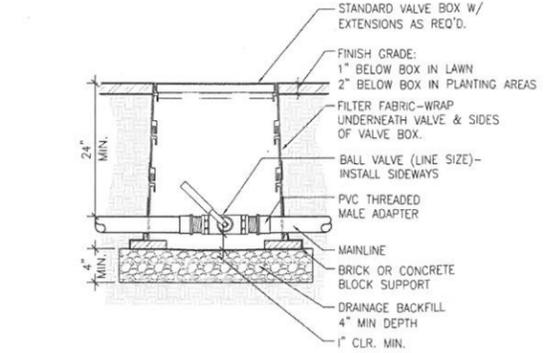
1 POINT OF CONNECTION  
SCALE: X" = 1'-0"



2 CONTROLLER  
SCALE: X" = 1'-0"



3 QUICK COUPLER  
SCALE: X" = 1'-0"



4 ISOLATION VALVE  
SCALE: X" = 1'-0"

GHD  
GHD Inc.  
11500 NE Prescott Parkway, Suite 140 Portland, Oregon 97224 USA  
T: 503.228.8901 F: 503.228.3926 W: www.ghd.com

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**WEST LINN WILSONVILLE SCHOOL DISTRICT  
WEST LINN HIGH SCHOOL  
STUDENT PARKING LOT IMPROVEMENTS**

**IRRIGATION DETAILS**

PROJ NO: 11456-11009  
DRWN: CHKD:  
**L4**  
SHEET OF

ABBREVIATIONS			
AFT	ABOVE FINISHED FLOOR	KVA	KILOVOLT AMP
A	AMPERE (AMP)	KVAR	KILOVOLT AMPS REACTIVE
AL	ALUMINUM	LA	LIGHTNING ARRESTOR
ARCH	ARCHITECT / ARCHITECTURAL	LTC	LIGHTING
ATS	AUTOMATIC TRANSFER SWITCH	LV	LOW VOLTAGE
CB	CIRCUIT BREAKER	MATV	MASTER ANTENNA TELEVISION
C	CONDUIT	MCA	MINIMUM CIRCUIT AMPS
CCTV	CLOSED CIRCUIT TELEVISION	MCB	MAIN CIRCUIT BREAKER
CKT	CIRCUIT	MCC	MOTOR CONTROL CENTER
CLG	CEILING	MDP	MAIN DISTRIBUTION PANEL
CT	CURRENT TRANSFORMER	MECH	MECHANICAL
CU	COPPER	MH	METAL HALIDE
DN	DOWN	MLO	MAIN LUGS ONLY
EMERG	EMERGENCY	MV	MERCURY VAPOR
EMT	ELECTRIC METALLIC TUBING	MTS	MANUAL TRANSFER SWITCH
EP	EXPLOSION PROOF	NIC	NOT IN CONTRACT
EPO	EMERGENCY POWER OFF	NL	NIGHT LIGHT CIRCUIT
EW	ELECTRIC WATER COOLER	PA	PUBLIC ADDRESS
FA	FIRE ALARM	PE	PHOTO ELECTRIC CELL
FLA	FULL LOAD AMPS	PF	POWER FACTOR
FLUOR	FLUORESCENT	PNL	PANELBOARD
FCIC	FURNISHED BY CONTRACTOR	PVC	POLYVINYL CHLORIDE CONDUIT
	INSTALLED BY CONTRACTOR	PWR	POWER
FOIC	FURNISHED BY OWNER	SDP	SUB-DISTRIBUTION PANEL
	INSTALLED BY CONTRACTOR	STR	STARTER
FOID	FURNISHED BY OWNER	SV	SOLENOID VALVE
	INSTALLED BY OWNER	SW	SWITCH
GFP	GROUND FAULT PROTECTION	TD	TIME DELAY
GFI	GROUND FAULT INTERRUPTER	TP	TAMPERPROOF
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TTB	TELEPHONE TERMINAL BOARD
GRC	GALVANIZED RIGID CONDUIT	TTC	TELEPHONE TERMINAL CABINET
GRD	GROUND	TV	TELEVISION
HP	HORSEPOWER	TYP	TYPICAL
HPS	HIGH PRESSURE SODIUM	UG	UNDERGROUND
HSS	HOUSE SIDE SHIELD	UPS	UNINTERRUPTIBLE POWER SUPPLY
HV	HIGH VOLTAGE	V	VOLTAGE
HZ	HERTZ	VA	VOLT AMPERES
IG	ISOLATED GROUND	VP	VAPOR PROOF
INC	INCANDESCENT	W	WATTS
JB	JUNCTION BOX	WP	WEATHER PROOF
KW	KILOWATT	XFRM	TRANSFORMER
KWH	KILOWATT HOUR	XFSW	TRANSFER SWITCH
KV	KILOVOLT		

DESIGNATION SYMBOLS		
	123	EQUIPMENT DESIGNATOR SEE SCHEDULE.
	X	EXISTING TO REMAIN, EXISTING TO BE REMOVED
	F	EXISTING TO BE RELOCATED, FUTURE
	C	NEW, CONNECT TO
	1	NOTE

LIGHTING	
	CEILING LUMINAIRE: SURFACE, RECESSED
	CEILING LUMINAIRE: PENDANT MOUNTED
	CEILING LUMINAIRE: PENDANT LINEAR
	WALL LUMINAIRE: SURFACE, RECESSED
	WALL WASHER: SURFACE, RECESSED
	TRACK WITH HEADS LOCATED
	FLUORESCENT LUMINAIRE: SURFACE, RECESSED
	FLUORESCENT LUMINAIRE: WALL MOUNTED
	FLUORESCENT LUMINAIRE: BARE LAMP
	POLE LIGHT: LUMINAIRE AS SHOWN
	DESIGNATES LIGHT ON EMERGENCY CIRCUIT
	EXIT LIGHT: CEILING, WALL (ARROWS AS SHOWN)
	BOLLARD
	EMERGENCY BATTERY LIGHT: HEADS AS SHOWN
	WALL SWITCH: 1 POLE, 2 POLE
	WALL SWITCH: 3 WAY, 4 WAY
	WALL SWITCH: KEY LOCK, MOMENTARY
	WALL SWITCH: LOW VOLTAGE, PILOT
	WALL SWITCH: TIMER, MANUAL DIMMER
	DESIGNATES LUMINAIRE TYPE (SEE LUMINAIRE SCHEDULE)
	DESIGNATES NIGHT LIGHT CIRCUIT
	PHOTOELECTRIC CELL: WALL MOUNTED
	PHOTOELECTRIC CELL: CEILING MOUNTED
	OCCUPANCY SENSOR: CEILING OR WALL MOUNTED
	"X" DESIGNATES DEVICE TYPE:
	S: IN COMBINATION WITH WALL SWITCH
	U: ULTRASONIC
	R: INFRARED
	UR: DUAL TECHNOLOGY, ULTRASONIC/INFRARED

POWER	
	WALL RECEPTACLE: SINGLE, DUPLEX
	WALL RECEPTACLE: EMERGENCY, 4-PLEX
	WALL RECEPTACLE: ISOLATED GROUND
	CEILING RECEPTACLE: DUPLEX
	FIRE RATED FLOOR POKE-THRU
	CONNECTION TO EQUIPMENT PROVIDED BY OTHERS
	DENOTES RECEPTACLE ABOVE COUNTER
	SPECIAL PURPOSE OUTLET AS NOTED, EMERGENCY
	CLOCK HANGER RECEPTACLE
	FLUSH IN-FLOOR OUTLET: DUPLEX, COMBINATION
	PEDESTAL OUTLET: POWER, SIGNAL, COMBINATION
	SURFACE OUTLET STRIP: DIMENSION AS SHOWN
	TELEPOWER POLE, POWER, COMBINATION
	JUNCTION BOX
	DISCONNECT SWITCH: FUSED, NON-FUSED
	MOTOR STARTER: MANUAL, MAGNETIC, COMBINATION
	MOTOR CONNECTION
	CONTACTOR, RELAY, SOLENOID
	PUSH BUTTON STATION
	WIRING CONCEALED IN CEILING OR WALL
	WIRING CONCEALED IN FLOOR OR UNDERGROUND
	INDICATES INSULATED GREEN GROUND WIRE
	HOME RUN DESTINATION SHOWN
	CONDUIT ELL: UP, DN.

ONE-LINE	
	CIRCUIT BREAKER
	SWITCH, FUSED SWITCH
	BUSS
	AUTOMATIC SWITCH
	METER
	PANEL
	FEEDER CALLOUT
	FAULT CURRENT CALLOUT
	GENERATOR

EQUIPMENT	
	ELECTRICAL EQUIPMENT
	PANELBOARD: SURFACE, RECESSED
	CABINET: SURFACE, RECESSED
	TRANSFORMER
	GROUND ROD, IN TEST WELL
	GROUND PAD
	EQUIPMENT WITH DERIVED GROUND
	VOLTMETER, AMMETER
	SELECTOR SWITCH: VOLTMETER, AMMETER
	METER: KILOWATT HOUR, POWER FACTOR
	POTENTIAL TRANSFORMER
	CURRENT TRANSFORMER
	CABLE TRAY: CENTER SUPPORT, OUTER SUPPORTS

**NOTE**

THIS IS A STANDARD LEGEND SHEET, THEREFORE, SOME SYMBOLS MAY APPEAR ON THIS SHEET THAT DO NOT APPEAR ON THE DRAWINGS.

LUMINAIRE SCHEDULE	
S1	H.I.D. OUTDOOR POLE MOUNT 1. SIZE: 17 INCH DIAMETER X 22 INCH. 2. LAMP: HIGH PRESSURE SODIUM, ONE 150 WATT. 3. BALLAST: 240 VOLT VAC, HPF, CWL. 4. MOUNTING: TENNON TOP POLE MOUNT. 5. FINISH: BODY OF LUMINAIRE TO BE DARK BRONZE. 6. LENS: CLEAR TEMPERED GLASS. 7. REFLECTOR: SEGMENTED, TYPE III DISTRIBUTION. PROVIDE ONE UNIT WITH HSS 8. ACCESSORIES: FULL BASE COVER. 9. POLE: SIZED TO SUPPORT ONE LUMINAIRE PER POLE WITH APPROPRIATE WIND LOAD AND 1.25 GUST FACTOR FOR PORTLAND, OREGON. ALUMINUM POLE CONSTRUCTION 20 FOOT HIGH. FOR OVERALL INSTALL HEIGHT OF 22 FEET. POLE TO BE NATURAL ALUMINUM COLOR. 10. POLE BASE: STEEL REINFORCED CONCRETE AS SHOWN IN DETAIL. 11. MANUFACTURER: GARCO FORM TEN ROUND MP SERIES, TO MATCH SIMILAR PRODUCT INSTALLED AT FACILITY.
S2	H.I.D. OUTDOOR POLE MOUNT 1. SIZE: 17 INCH DIAMETER X 22 INCH. 2. LAMP: HIGH PRESSURE SODIUM, ONE 150 WATT. 3. BALLAST: 240 VOLT VAC, HPF, CWL. 4. MOUNTING: TENNON TOP POLE MOUNT. 5. FINISH: BODY OF LUMINAIRE TO BE DARK BRONZE. 6. LENS: CLEAR TEMPERED GLASS. 7. REFLECTOR: SEGMENTED, TYPE V DISTRIBUTION. 8. ACCESSORIES: FULL BASE COVER. 9. POLE: SIZED TO SUPPORT ONE LUMINAIRE PER POLE WITH APPROPRIATE WIND LOAD AND 1.25 GUST FACTOR FOR PORTLAND, OREGON. ALUMINUM POLE CONSTRUCTION 20 FOOT HIGH. FOR OVERALL INSTALL HEIGHT OF 22 FEET. POLE TO BE NATURAL ALUMINUM COLOR. 10. POLE BASE: STEEL REINFORCED CONCRETE AS SHOWN IN DETAIL. 11. MANUFACTURER: GARCO FORM TEN ROUND MP SERIES, TO MATCH SIMILAR PRODUCT INSTALLED AT FACILITY.

DATE: 03/08/13

MARK: [ ]

DATE: [ ]

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DESCRIPTION

DATE

MARK

**WEST LINN WILSONVILLE SCHOOL DISTRICT**

**WEST LINN HIGH SCHOOL**

**STUDENT PARKING LOT IMPROVEMENTS**

**LEGEND**

PROJECT: 11456-11039

DRAWN: CHKD

E0.1

SHEET: 09

PAE

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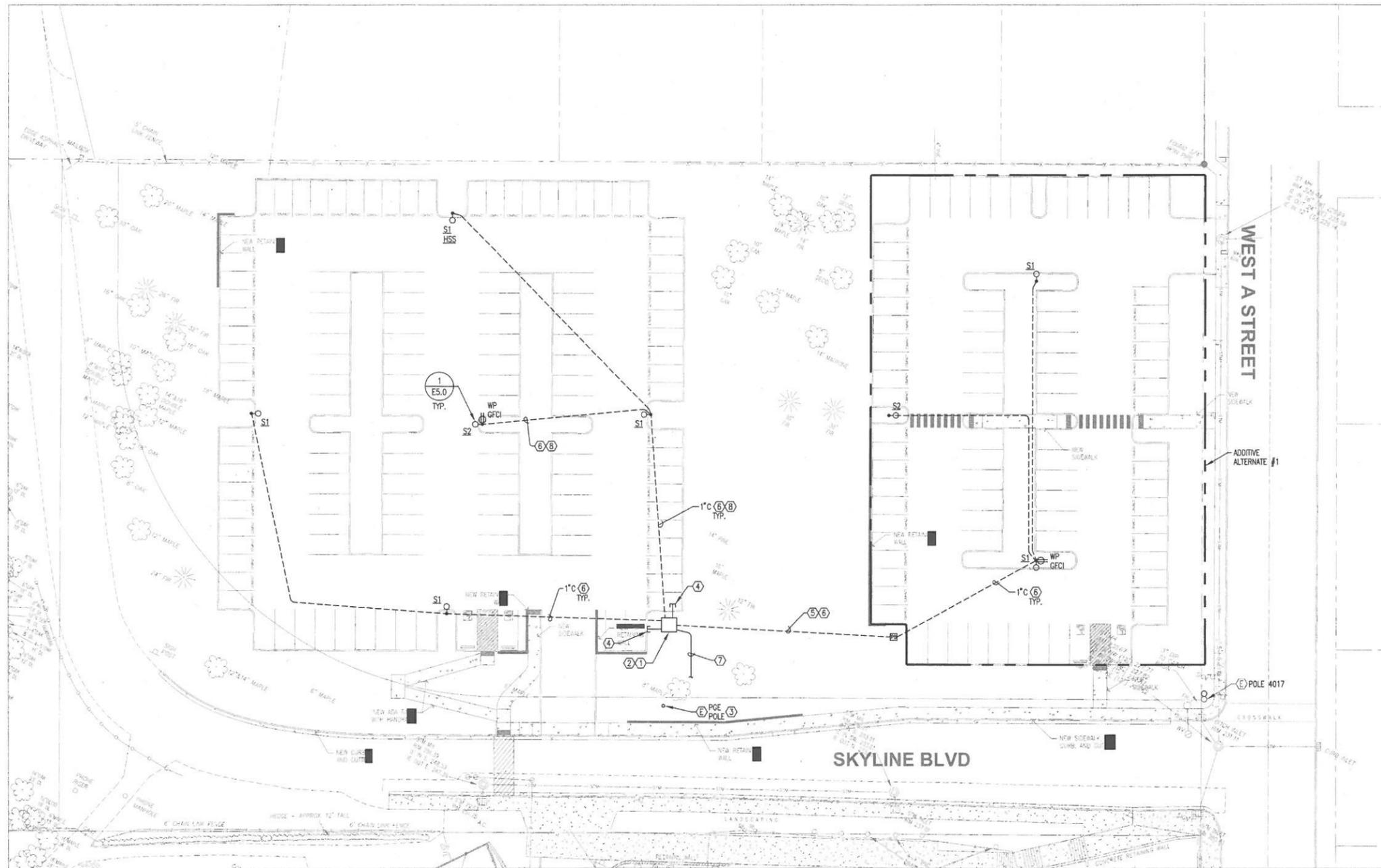
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DATE: 03/08/13

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DATE: 0







**WLHS - NORTH PARKING PLAN - LIGHTING AND POWER**  
 SCALE: 1" = 20' - 0"

**GENERAL NOTES:**

1. THE CONTRACTOR SHOULD EXPECT TO ENCOUNTER SOLID BASALT ROCK AND/OR LARGE BOULDERS IN THE WESTERN PARKING LOT DURING EXCAVATIONS THAT EXCEED 2 FEET BELOW THE EXISTING SURFACE.

**NOTES:**

- 1) SERVICE ENCLOSURE WITH METERING MAIN AND LOAD CENTER. REFER TO DETAIL 2/ES.0
- 2) PROVIDE A CONCRETE MOUNTING PAD.
- 3) PGE SERVICE POLE, COORDINATE WITH UTILITY FOR CONNECTION.
- 4) PROVIDE TWO SPARE 1" UNDERGROUND CONDUITS FOR FUTURE USE. (FOUR TOTAL)
- 5) PROVIDE FIVE 1" CONDUIT FROM SERVICE ENCLOSURE TO PULL ENCLOSURE.
- 6) 2 #8, 1 #10 G TYPICAL CONDUCTORS FROM SERVICE ENCLOSURE TO LIGHTING FIXTURES.
- 7) COORDINATE WITH PGE FOR MAIN POWER SERVICE CONNECTION POINT. ROUTE UNDERGROUND TO PGE POLE.
- 8) 2 #8, 1 #10G TYPICAL CONDUCTORS FROM SERVICE ENCLOSURE TO POLE MOUNTED RECEPTACLES.


**CH2D Inc.**  
 1100 Commercial Parkway Suite 140 Portland Oregon 97224 USA  
 T 503 228 3921 F 503 228 3826  
 www.ch2d.com

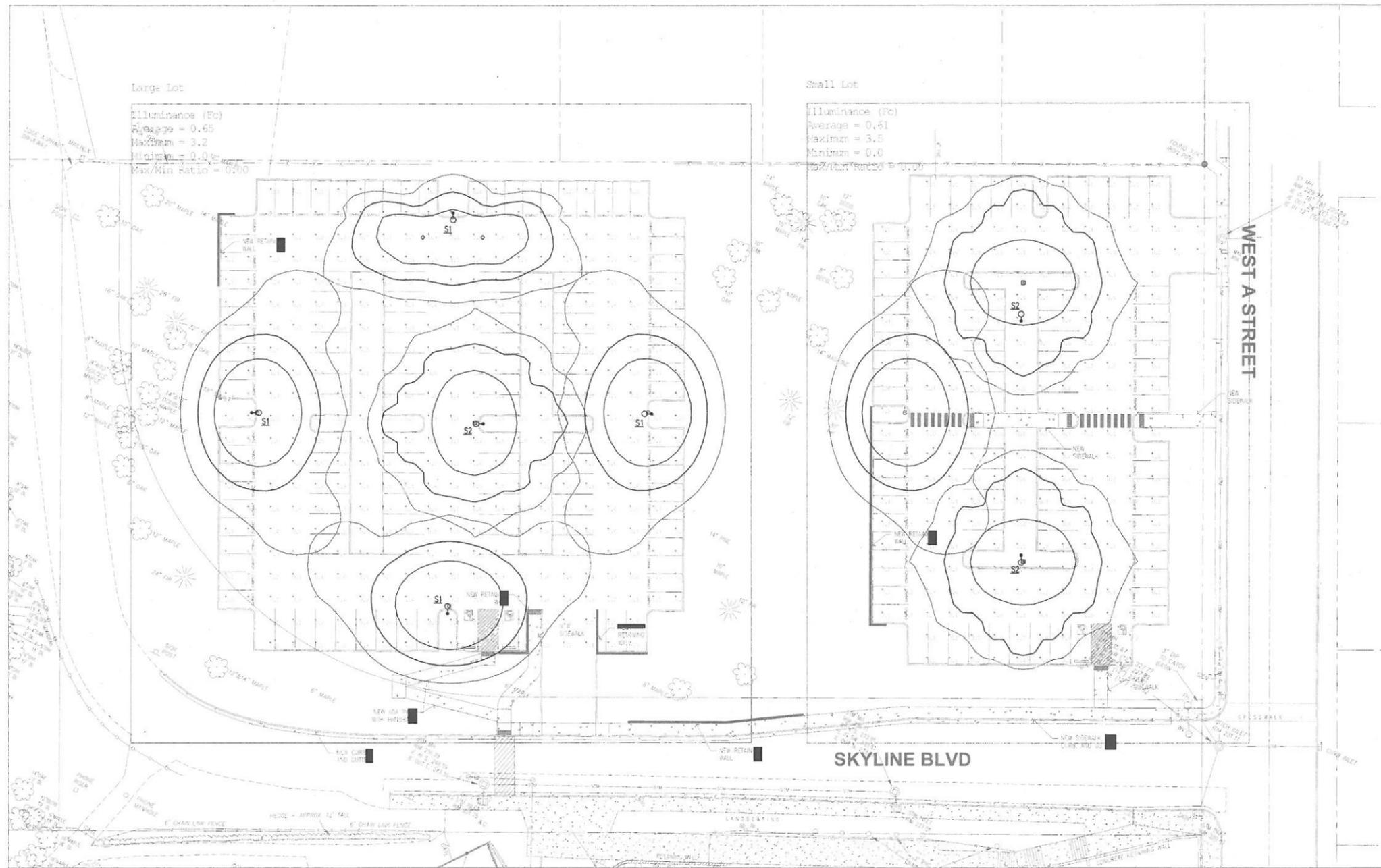
  
**STEPHEN J. TURINA**  
 11612  
 6-30-14

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**WEST LINN WILSONVILLE SCHOOL DISTRICT**  
**WEST LINN HIGH SCHOOL**  
**STUDENT PARKING LOT IMPROVEMENTS**  
**LIGHTING AND POWER PLAN**

PROJ. NO.	11456-11009
DR. NO.	CH2D
<b>E2.0</b>	
SHEET	OF




**1**  
**E2.1**

**WLHS - NORTH PARKING PLAN - LIGHTING CALCULATIONS**  
 SCALE: 1" = 20' - 0"



BAR CODE REQUIRED  
 ORIGINAL DRAWING  
 0

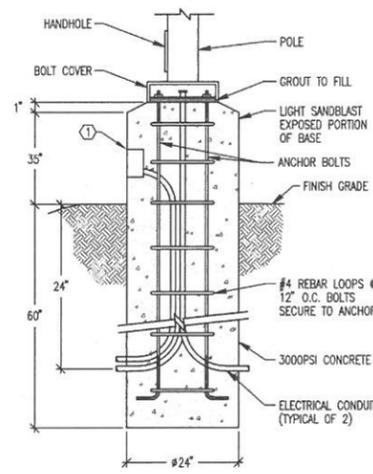
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**WEST LINN WILSONVILLE SCHOOL DISTRICT**  
**WEST LINN HIGH SCHOOL**  
**STUDENT PARKING LOT IMPROVEMENTS**  
**LIGHTING CALCULATIONS**

PROJ NO: 11456-11009  
 DRAWN: CHRD

**E2.1**  
 SHEET OF



NOTE: CONCRETE BASE / FOOTING DESIGN SHALL BE VERIFIED AND APPROVED BY A STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR STRUCTURAL ENGINEERING AND COORDINATING ALL POLE REQUIREMENTS WITH THE MANUFACTURER AND LOCAL AUTHORITY HAVING JURISDICTION AND SHALL MEET ALL APPLICABLE CODES.

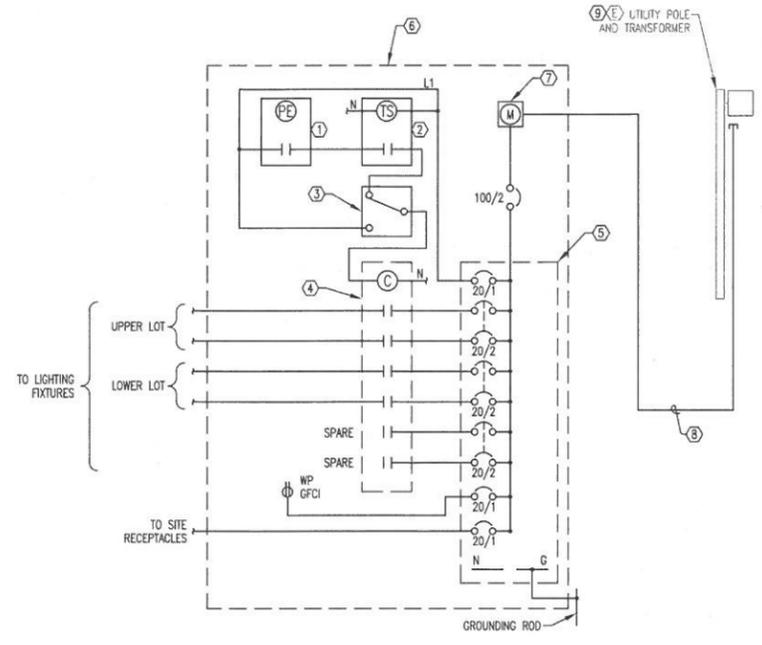
1  
ES.0  
SCALE: NONE  
**EXTERIOR LIGHTING POLE BASE DETAIL**

**GENERAL NOTES:**

1. THE CONTRACTOR SHOULD EXPECT TO ENCOUNTER SOLID BASALT ROCK AND/OR LARGE BOULDERS IN THE WESTERN PARKING LOT DURING EXCAVATIONS THAT EXCEED 2 FEET BELOW THE EXISTING SURFACE.

**NOTES:**

① PROVIDE A SINGLE GANG CAST IN BOX FOR DUPLEX RECEPTACLE AND CONDUIT, REFER TO SITE PLAN FOR LOCATIONS.



2  
ES.0  
SCALE: NONE  
**SERVICE PEDESTAL ONE-LINE**

**NOTES:**

- ① PHOTO ELECTRIC CELL, 120VAC, SPOT CONTACTS WITH ADJUSTABLE LIGHT SENSOR.
- ② PROGRAMMABLE ELECTRONIC TIMER WITH BATTERY BACKUP, 24 HOUR FORMAT, 120VAC.
- ③ SELECTOR SWITCH, ON-OFF-AUTO BYPASS.
- ④ LIGHTING CONTACTOR, ELECTRICALLY HELD, 20 AMP CONTACTS, 120VAC COIL.
- ⑤ BUILT IN LOAD CENTER PANEL 100 AMP, 240/120VAC, 1 PHASE, 16 POLE.
- ⑥ WEATHER PROOF, LOCKABLE, SERVICE ENCLOSURE WITH METERING MAIN AND LOAD CENTER, MILBANK CP38 ML SERIES, CIRCUE AW. 42 KVIC RATED OR APPROVED.
- ⑦ METER SOCKET TO MEET UTILITY REQUIREMENTS LOCATED IN SEPARATE SEALABLE AND LOCKABLE UTILITY TERMINATION SECTION.
- ⑧ UNDERGROUND CONDUIT FROM SERVICE POLE, SIZE PER UTILITY REQUIREMENTS.
- ⑨ COORDINATE WITH P&E FOR SERVICE POLE LOCATION AND CONNECTION REQUIREMENTS.

**GHD**  
GHD INC.  
1575 SW Section Parkway, Suite 140 Portland, Oregon 97224 USA  
T 503 228 3921 F 503 228 3926  
W www.ghd.com

**REGISTERED PROFESSIONAL ENGINEER**  
STEPHEN J. TURMAN  
EST. 1978  
EXPRS 6-36-14

DATE OF ORIGINAL DRAWING: 0  
SCALE OF ORIGINAL DRAWING: 1"  
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MARK	DATE	DESCRIPTION	ISSUE

**WEST LINN WILSONVILLE SCHOOL DISTRICT  
WEST LINN HIGH SCHOOL  
STUDENT PARKING LOT IMPROVEMENTS**

**DETAILS**

PROJ. NO.	11456-1003
DRWN	CHKD
<b>E5.0</b>	
SHEET	OF

**GENERAL SITE NOTES**

- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO THE COMMENCEMENT OF WORK AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE. CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND BECOMING FAMILIAR WITH THE SITE CONDITIONS PRIOR TO BIDDING.
- CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THAT NEW FEATURES BE INTO EXISTING SITE DEVELOPMENT. PAVEMENT JOINTS MATCH CORRECTLY, AND THAT GENERAL ELEVATIONS FOR NEW CONSTRUCTION PROVIDE PROPER PAVEMENT AND DRAINAGE SLOPES FROM EXISTING TIE IN POINTS. REPORT DISCREPANCIES TO OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
- IN AREAS WHERE ASPHALT PAVING IS BEING REWORKED, PROVIDE NEW PAINT STRIPING FOR ALL REVISED PAVING WORK AND PARKING STALLS. EXISTING STRIPING TO BE GROUND OFF IN RECONFIGURED AREAS AS REQUIRED.
- ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH CITY INSPECTOR(S). CONTRACTOR SHALL NOTIFY CITY INSPECTOR(S) 48 HOURS PRIOR TO START OF CONSTRUCTION.
- DURING CONSTRUCTION, THE CONTRACTOR AND/OR SUBCONTRACTORS SHALL HAVE A MINIMUM OF ONE (1) SET OF PERMIT APPROVED PLANS AND SPECIFICATIONS ON THE JOB SITE AT ALL TIMES.
- UPON COMPLETION OF THE CONSTRUCTION PROJECT, THE CONTRACTOR SHALL LEAVE THE PROJECT AREA FREE OF DEBRIS AND UNUSED MATERIAL. ALL DAMAGE CAUSED BY THE CONTRACTOR SHALL BE RESTORED TO AN "AS GOOD OR BETTER" CONDITION.
- ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO CITY OF WEST LINN STANDARDS AND SPECIFICATIONS.
- SURVEY OF EXISTING CONDITIONS PREPARED BY COMPASS ENGINEERING THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL SURVEY DATA. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING RIGHT-OF-WAY LINES, SLOPE BASEMENTS, AND ALL HORIZONTAL AND VERTICAL CONTROL PRIOR TO CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION STAKING AND SHALL ARRANGE FOR STAKING WITH A LICENSED SURVEYOR. STAKING WILL BE REVIEWED BY OWNER FOR CONFORMANCE TO DESIGN PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL CONSTRUCTION ADEQUATE SHORING BRACING, TIES, AND SUPPORTS SHALL BE USED TO PROVIDE PROPER TEMPORARY INTEGRITY DURING ALL PHASES OF CONSTRUCTION.
- ALL DITCHES, SWALES, GUTTERS, ETC. SHOULD BE CONSIDERED ACTIVE STORM CONVEYANCES UNLESS OTHERWISE INDICATED. CONTRACTOR IS RESPONSIBLE FOR ADDRESSING STORM WATER DRAINAGE AND DETERMINING OF WORK AREAS DURING CONSTRUCTION.
- ALL EXISTING LANDSCAPED AND UNPAVED AREAS WHICH ARE DISTURBED BY CONSTRUCTION OR EXISTING OPERATIONS SHALL BE HAND RAKED SMOOTH AND RETURNED TO ORIGINAL EXISTING CONDITIONS. DISTURBED LANDSCAPED AREAS SHALL RECEIVE BARK DUST AND REPLACEMENT PLANTINGS. DISTURBED NATURAL AREAS SHALL BE HYDROSEEDED TO REPLACE NATIVE COVER. DISTURBED GRAVEL AREAS SHALL RECEIVE REPLACEMENT GRAVEL OR CRUSHED ROCK SURFACING.
- ALL EXISTING MONUMENTS SHALL BE PROTECTED DURING CONSTRUCTION. IF ANY MONUMENTS ARE DISTURBED OR DESTROYED DURING CONSTRUCTION, CONTRACTOR SHALL RETAIN THE SERVICES OF A REGISTERED LAND SURVEYOR TO RESTORE THE MONUMENT TO ITS ORIGINAL CONDITION AND FILE THE NECESSARY SURVEYS AS REQUIRED BY STATE LAW.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL DURING CONSTRUCTION OPERATIONS. CONTRACTOR TO SUBMIT A TRAFFIC CONTROL PLAN TO THE CITY OF WEST LINN FOR REVIEW - PLAN TO BE APPROVED BY CITY OF WEST LINN PRIOR TO START OF ANY CONSTRUCTION OPERATIONS IN 4TH AVENUE. A MINIMUM OF ONE TRAFFIC LANE IS TO REMAIN OPEN ALONG 4TH AVENUE AT ALL TIMES.

**GENERAL EROSION CONTROL NOTES:**

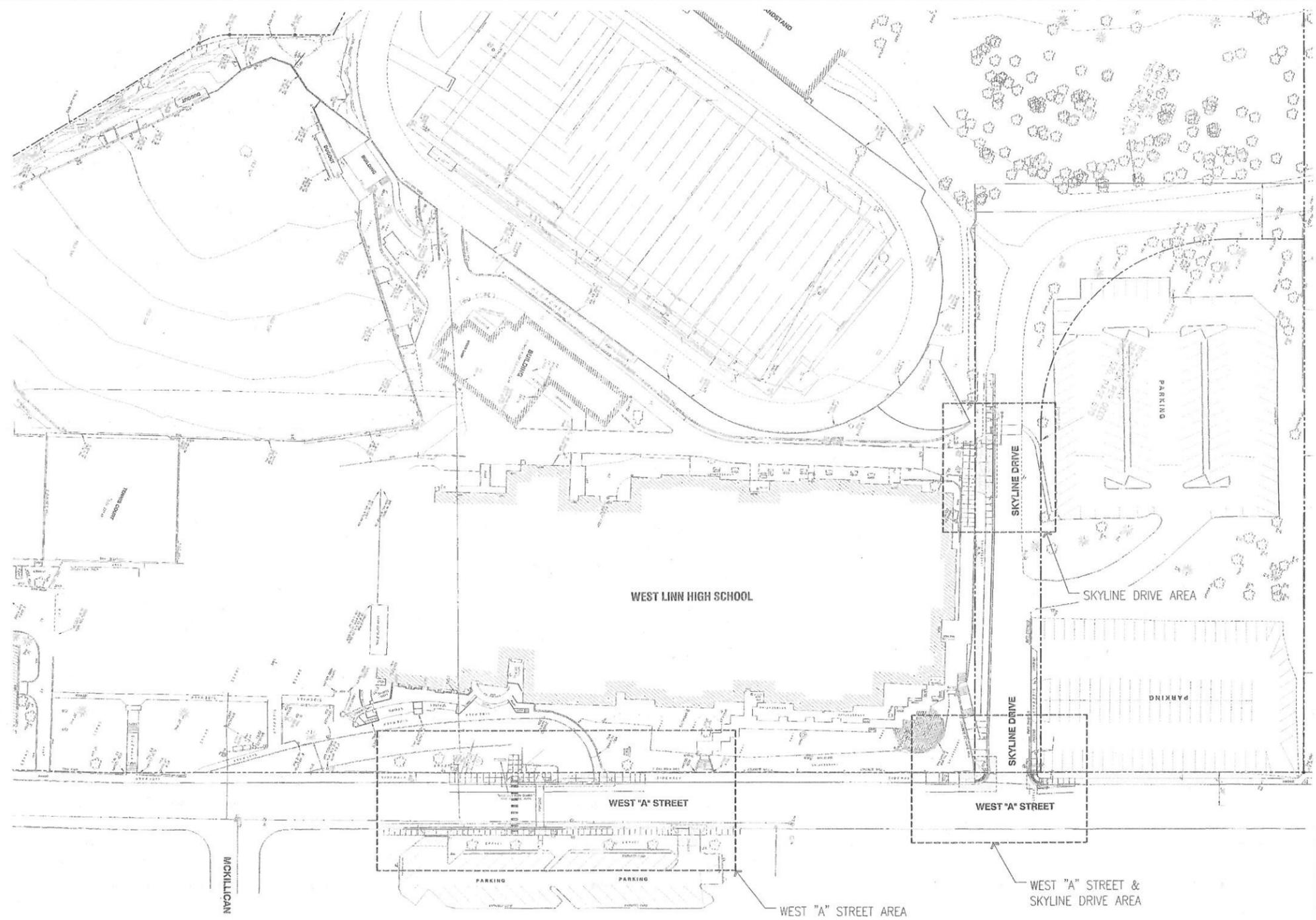
- ALL EROSION, SEDIMENT, AND POLLUTION CONTROL PLAN (ESPCP) MEASURES SHALL BE INSTALLED AS FOR THE DETAIL DRAWINGS BY THE CITY OF WEST LINN EROSION PREVENTION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.
- ESPCP MEASURES SHALL NOT BE REMOVED UNTIL FINAL INSPECTION HAS BEEN REQUESTED AND APPROVED BY A CITY OF WEST LINN INSPECTOR.
- INSPECTIONS MAY BE REQUESTED BY TELEPHONING CITY OF WEST LINN ONE DAY PRIOR TO THE TIME OF INSPECTION.
- THE IMPLEMENTATION OF THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF ESPCP FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED.
- THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS DURING THE CONSTRUCTION PERIOD. THE CONTRACTOR MAY BE REQUIRED TO IMPLEMENT ADDITIONAL EROSION CONTROL MEASURES TO ENSURE THAT NO SEDIMENT LADEN WATER EXISTS THE SITE OR ENTERS THE EXISTING STORMWATER SYSTEM.
- THE ESPCP FACILITIES SHALL BE INSPECTED DAILY BETWEEN OCTOBER 1 AND APRIL 30 BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING. ALL INSPECTIONS SHALL BE NOTED IN AN INSPECTION LOG WHICH SHALL BE MADE AVAILABLE TO THE CITY OF WEST LINN INSPECTOR UPON REQUEST.
- ESPCP FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF EVERY TWO WEEKS OR WITHIN 24 HOURS FOLLOWING A STORM EVENT.
- EXPOSED SOILS THAT REMAIN UNWORKED FOR 14 DAYS OR MORE SHALL BE IMMEDIATELY PROTECTED BY APPROPRIATE GROUND COVER. DISTURBED LAND THAT WILL REMAIN UNWORKED FOR 2 MONTHS OR LONGER SHALL ALSO BE SEEDED WITH AN APPROVED SEED MIXTURE.
- PUBLIC STREETS WILL BE SWEEP DAILY, IF NECESSARY, TO ALLEVATE SEDIMENT DISCHARGE TO THE STORM WATER MANAGEMENT SYSTEM. UNFILTERED WASH WATER CANNOT BE DISCHARGED TO STORM DRAINS.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THEY ARE NO LONGER NEEDED.

**UTILITY NOTES**

- LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE PLOTTED FROM RECORD DRAWINGS AND INTERPOLATION OF PHYSICAL EVIDENCE ON THE SITE AND ARE SUBJECT TO FIELD VERIFICATION BY THE CONTRACTOR.
- ALL LOCATIONS FOR WORK SHALL BE CHECKED AND COORDINATED WITH EXISTING CONDITIONS IN THE FIELD BEFORE BEGINNING CONSTRUCTION UNDER THIS SECTION OR ANY OTHER SECTION.
- 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, OR FITTING REQUIRED TO COMPLETE THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND WORKING SYSTEM. ALL ADDITIONAL WORK OR PARTS TO CONFORM TO CITY OF WEST LINN STANDARDS AND APPROVAL.
- CONTRACTOR SHALL COORDINATE A UTILITY LOCATE 48 HOURS PRIOR TO BEGINNING ANY UTILITY CONSTRUCTION FOR LOCATION MARK-UP OF ALL EXISTING UTILITIES BOTH IN THE RIGHT-OF-WAY AND ON PRIVATE PROPERTY. CONTRACTOR SHALL COORDINATE THE UTILITY LOCATE WITH MUNICIPALITY HAVING JURISDICTION FOR ALL UTILITY WORK WITHIN A PUBLIC RIGHT-OF-WAY. INFORM ENGINEER IMMEDIATELY IF LOCATE INDICATES THAT EXISTING UTILITIES ARE DIFFERENT THAN SHOWN ON DRAWINGS. "PRE-SURVEY LOCATE" REQUESTS SHALL BE 14 DAYS IN ADVANCE.
- CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES, FEATURES, AND STRUCTURES LOCATED ON THE SITE. LOCATE, PROTECT, AND AVOID DISRUPTION OF ALL ABOVE AND BELOW GRADE UTILITIES DURING CONSTRUCTION.
- ALL UTILITY CONSTRUCTION ON PRIVATE PROPERTY SHALL CONFORM TO THE LATEST EDITION OF THE OREGON PLUMBING SPECIALTY CODE. ALL UTILITY CONSTRUCTION WITHIN THE RIGHT-OF-WAY SHALL CONFORM TO THE STANDARD REQUIREMENTS OF THE MUNICIPALITY HAVING JURISDICTION.
- ALL BURIED LINES TO HAVE 3 FEET MINIMUM COVER, UNLESS NOTED OTHERWISE.
- ALL EXISTING UTILITIES AND TIE-IN POINTS SHOULD BE CONSIDERED ACTIVE UTILITIES UNLESS OTHERWISE INDICATED.

**ATTENTION EXCAVATORS**

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 THESE RULES FROM THE CENTER BY CALLING 503-232-1987. IF YOU HAVE ANY QUESTIONS ABOUT THE RULES, YOU MAY CONTACT THE CENTER. YOU MUST NOTIFY THE CENTER AT LEAST TWO BUSINESS DAYS BEFORE COMMENCING ANY EXCAVATION. CALL 503-246-6699.



**SURVEY NOTES**

- TOPOGRAPHIC FEATURES SHOWN ON THIS MAP WERE LOCATED USING STANDARD PRECISION TOPOGRAPHIC MAPPING PROCEDURES. THIRD PARTY USERS OF DATA FROM THIS MAP PROVIDED VIA AUTOCAD DRAWING FILES OR DATA EXCHANGE FILES SHOULD NOT RELY ON ANY AUTOCAD GENERATED INFORMATION WHICH IS BEYOND THE LIMITS OF PRECISION OF THIS MAP. THIRD PARTIES, USING DATA FROM THIS MAP IN AN AUTOCAD FORMAT, SHOULD VERIFY ANY ELEMENTS REQUIRING PRECISE LOCATIONS PRIOR TO COMMENCEMENT OF ANY CRITICAL DESIGN OR CONSTRUCTION. CONTACT COMPASS ENGINEERING FOR FURTHER INFORMATION. FURTHERMORE, COMPASS ENGINEERING WILL NOT BE RESPONSIBLE NOR HELD LIABLE FOR ANY DESIGN OR CONSTRUCTION RELATED PROBLEMS THAT ARISE OUT OF THIRD PARTY USAGE OF THIS MAP (IN AUTOCAD OR OTHER FORMATS) FOR ANY PURPOSE OTHER THAN SPECIFICALLY STATED HEREIN. THIS STATEMENT IS AN OFFICIAL PART OF THIS MAP.
- THE LOCATION OF UTILITIES (SANITARY SEWER, WATER, NATURAL GAS, AND ELECTRICITY) SERVING THIS PROPERTY ARE BASED UPON FIELD MEASUREMENTS MADE BY THE LOCAL UTILITY AGENTS AND RECORD INFORMATION THEY HAVE PROVIDED. COMPASS ENGINEERING MAKES NO WARRANTIES WITH REGARD TO THE ACCURACY OR COMPLETENESS OF DATA SHOWN. ADDITIONAL UTILITIES MAY EXIST.
- THE STORM SEWER FEATURES (MANHOLES, CATCH BASINS AND DRAINS) WERE FIELD REID. THE UNDERGROUND PIPELINES CONNECTING THESE FEATURES WERE DRAWN USING FIELD DATA.
- THE LOCATION OF BUILDINGS SHOWN ON THIS SURVEY ARE BASED UPON FIELD MEASUREMENTS TAKEN AT THE BUILDING FACE.
- CONTOUR INTERVALS ARE 1 FOOT.
- BOUNDARY IS PER P.S. 17363 AND P.S. 17633, CLATSOP COUNTY SURVEY RECORDS. BASIS OF BEARINGS FOR THIS PROJECT ARE ASSUMED "NORTH" FROM POINT NUMBER 4 TO POINT NUMBER 1.

1 GENERAL ARRANGEMENT  
SCALE: 1"=40'-0"

**SURVEY LEGEND**

- CATCH BASIN
- CLEANOUT
- FIRE HYDRANT
- LIGHT POLE
- POWER POLE
- STM MH
- WATER METER
- WATER VALVE
- SPRINKLER
- CURB
- OVERHEAD POWER
- EDGE OF PAVEMENT
- FENCE, CHAIN LINK UNLESS NOTED OTHERWISE
- EDGE OF GRAVEL
- STORM LINE
- GAS LINE
- SANITARY SEWER LINE
- UNDERGROUND POWER

**CIVIL ABBREVIATIONS**

- A.C. ASPHALT CONCRETE
- IE INVERT ELEVATION
- FS FINISH SURFACE
- G GUTTER
- HTS NOT TO SCALE
- ROW RIGHT-OF-WAY
- SDCB STORM DRAIN CATCH BASIN
- TC TOP OF CURB

**GENERAL NOTE**  
ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THE CITY OF WEST LINN PUBLIC WORKS STANDARD CONSTRUCTION SPECIFICATIONS AND DETAILS.

**WINZLER & KELLY**  
15575 SW Bequaeta Parkway, Suite 140 Portland, OR 97224  
tel (503) 228-3921 fax (503) 228-3926 www.w-k.com  
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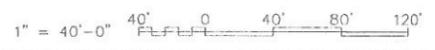
**WEST LINN-WILSONVILLE SCHOOL DISTRICT  
WEST LINN HIGH SCHOOL  
PUBLIC ADA IMPROVEMENTS  
GENERAL ARRANGEMENT & NOTES**

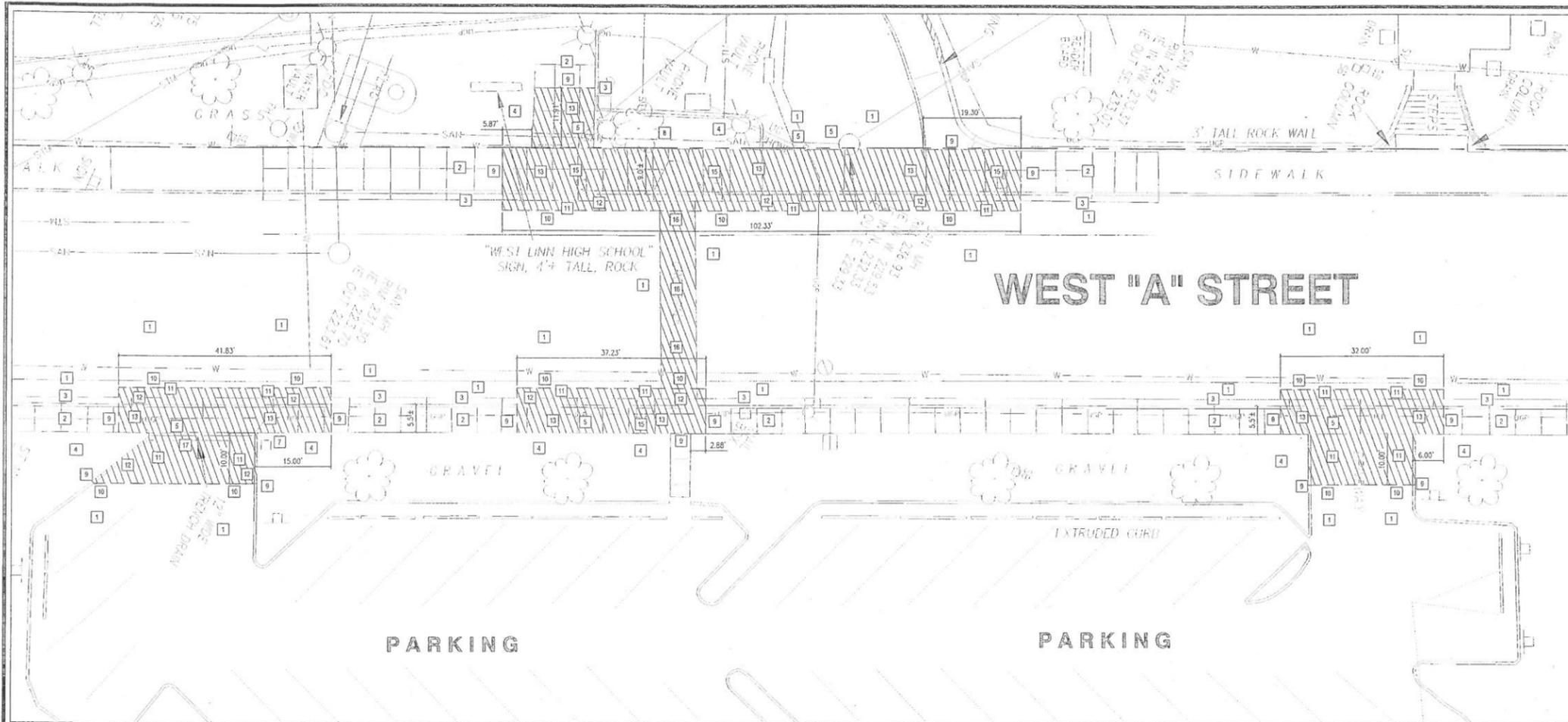
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DRWN STS:	CHD: MBW

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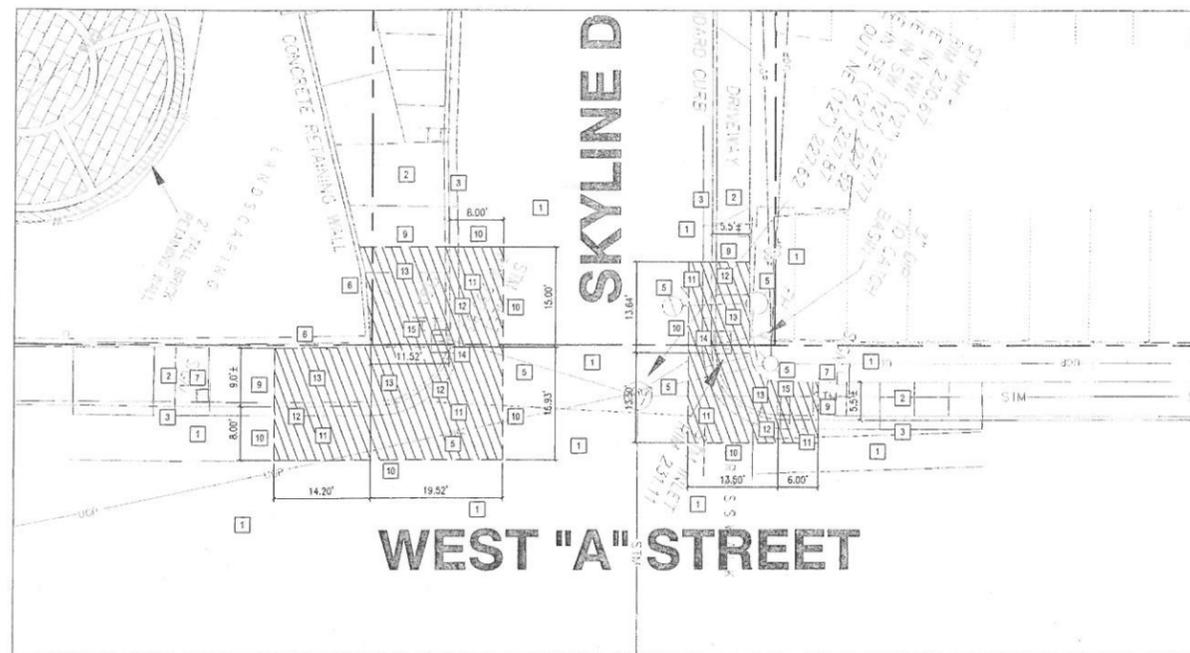
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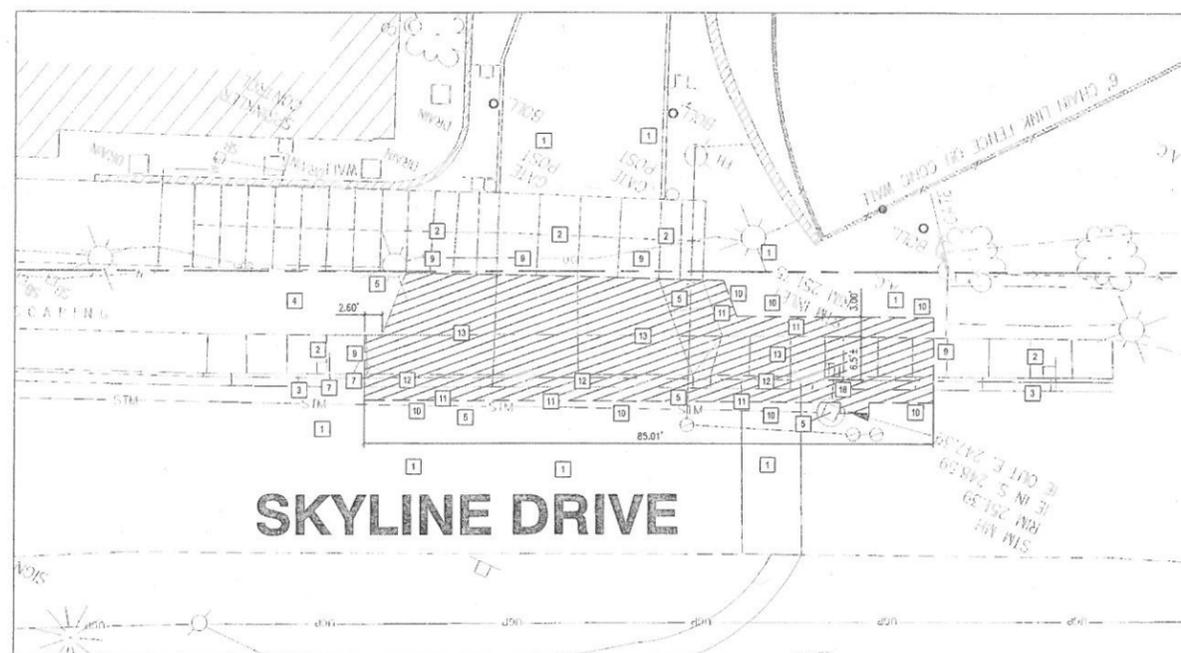




1  
C2/C2  
DEMOLITION PLAN  
WEST "A" STREET  
SCALE: 1"=10'-0"



2  
C2/C2  
DEMOLITION PLAN  
WEST "A" ST. & SKYLINE DR.  
SCALE: 1"=10'-0"



3  
C2/C2  
DEMOLITION PLAN  
SKYLINE DRIVE  
SCALE: 1"=10'-0"

**DEMOLITION GENERAL NOTES**

1. DEMOLITION REQUIREMENTS SHOWN ON THESE DRAWINGS ARE GENERALLY INDICATED BY HATCHING. THEY ARE INTENDED TO ILLUSTRATE THE GENERAL SCOPE OF DEMOLITION. THEY DO NOT IDENTIFY EVERY ELEMENT TO BE REMOVED. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING A DETAILED SCOPE OF DEMOLITION FROM OWNER AND FROM EXAMINATION OF EXISTING SITE CONDITIONS.
2. CONTRACTOR SHALL SUBMIT A DEMOLITION PLAN, PRIOR TO CONSTRUCTION, OUTLINING ALL ITEMS TO BE REMOVED.
3. DEMOLISHED ITEMS SHALL BE REMOVED FROM THE SITE, EXCEPT THOSE ITEMS IDENTIFIED AS "TO REMAIN", "SAVE AND PROTECT", OR "SALVAGE FOR OWNER".
4. ALL LINES THAT ARE CUT AT THE LIMITS OF DEMOLITION OR POINT OF DISCONNECTION WITHIN THE WORK AREA SHALL BE CAPED OR PLUGGED WATER TIGHT TO CITY OR OWNER'S APPROVAL. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TEMPORARY ACCESS.
5. DEMOLITION PERMIT MUST BE OBTAINED AND APPROPRIATE EROSION CONTROL MEASURES IN PLACE PRIOR TO ANY DEMOLITION ACTIVITIES TAKING PLACE.

**DEMOLITION NOTES**

1. SAVE AND PROTECT EXISTING ASPHALT THROUGHOUT CONSTRUCTION ACTIVITIES.
2. SAVE AND PROTECT EXISTING CONCRETE THROUGHOUT CONSTRUCTION ACTIVITIES.
3. SAVE AND PROTECT EXISTING CURB THROUGHOUT CONSTRUCTION ACTIVITIES.
4. SAVE AND PROTECT EXISTING LANDSCAPING THROUGHOUT CONSTRUCTION ACTIVITIES.
5. SAVE AND PROTECT EXISTING UTILITIES THROUGHOUT CONSTRUCTION ACTIVITIES.
6. SAVE AND PROTECT EXISTING RETAINING WALL THROUGHOUT CONSTRUCTION ACTIVITIES.
7. SAVE AND PROTECT EXISTING SIGN THROUGHOUT CONSTRUCTION ACTIVITIES.
8. SAVE AND PROTECT EXISTING TREE DURING CONSTRUCTION.
9. SAWCUT EXISTING CONCRETE.
10. SAWCUT EXISTING A.C. PAVING, UNLESS OTHERWISE NOTED, SAWCUT LINE SHOULD BE 24" FROM L.P. OF GUTTER, OR TO COMPETENT PAVEMENT SECTION, WHICHEVER IS GREATER.
11. DEMOLISH AND REMOVE EXISTING ASPHALT PAVING SECTION. REMOVE TO ADEQUATE SUBGRADE TO PROVIDE COMPLETE NEW PAVING SECTION AS DETAILED. REMOVE ALL ASPHALT WITHIN DEMOLITION LIMITS AND DISPOSE OFF-SITE.
12. DEMOLISH AND REMOVE EXISTING CONCRETE CURB & GUTTER AND DISPOSE OF OFF-SITE.
13. DEMOLISH AND REMOVE EXISTING CONCRETE SIDEWALK AND DISPOSE OF OFF-SITE.
14. DEMOLISH AND REMOVE EXISTING CURB INLET AND DISPOSE OF OFF-SITE. SAVE AND PROTECT EXISTING STORM PIPE FOR CONNECTION TO NEW CATCH BASIN.
15. REMOVE EXISTING SIGN. SALVAGE SIGN FOR RE-INSTALLATION.
16. REMOVE EXISTING CROSSWALK STRIPING.
17. DEMOLISH AND REMOVE EXISTING TRENCH DRAIN AND DISPOSE OF OFF-SITE. SAVE AND PROTECT EXISTING STORM PIPE FOR CONNECTION TO NEW TRENCH DRAIN.
18. DEMOLISH AND REMOVE EXISTING CURB INLET AND STORM PIPE LATERAL DISPOSE OF OFF-SITE. CROUT EXISTING MANHOLE AT CURB INLET LATERAL PENETRATION TO CREATE WATER-TIGHT SEAL.

**WINZLER & KELLY**  
15675 SW Sequoia Parkway, Suite 140, Portland, OR 97224  
tel: (503) 226-3921 fax: (503) 226-3928 www.wink-k.com  
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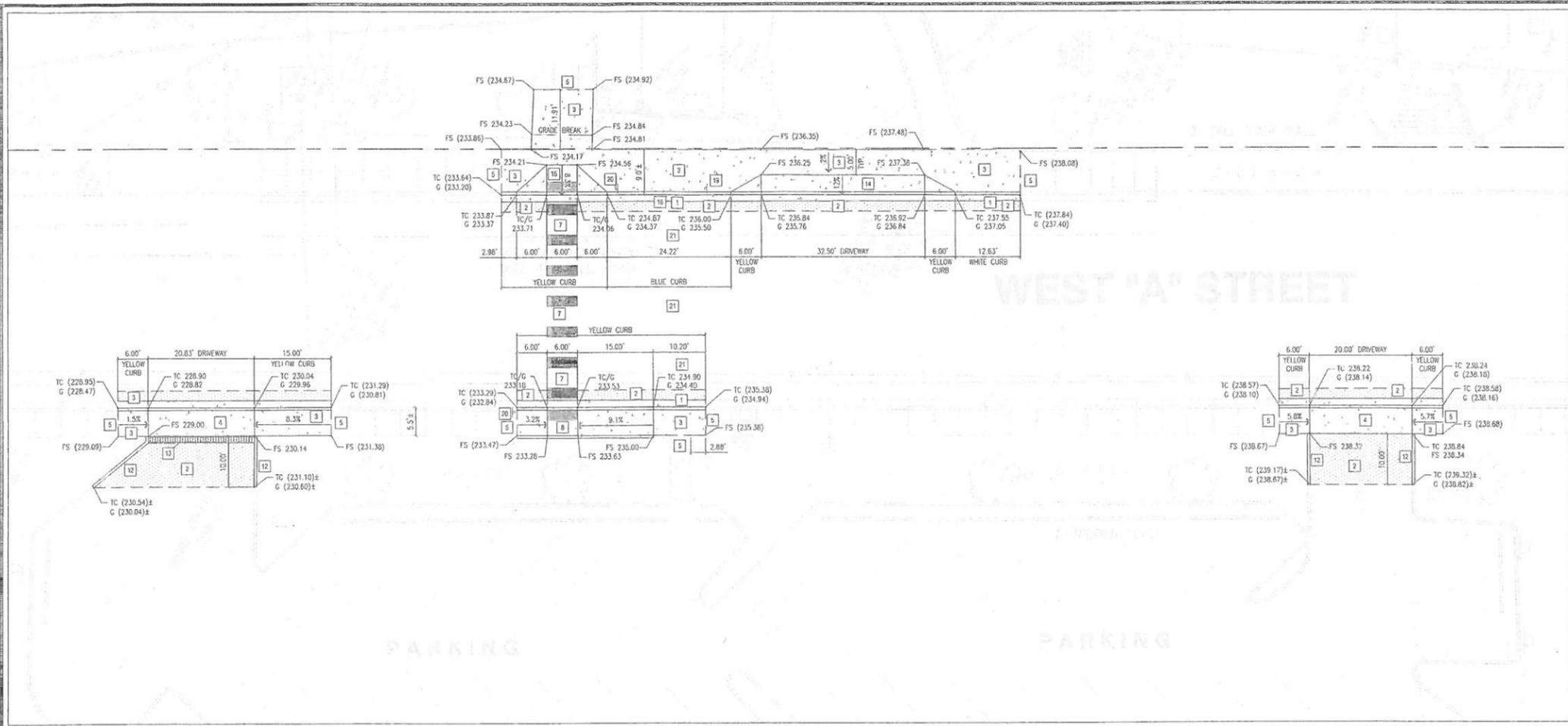
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**WEST LINN-WILSONVILLE SCHOOL DISTRICT  
WEST LINN HIGH SCHOOL  
PUBLIC ADA IMPROVEMENTS  
DEMOLITION PLAN**

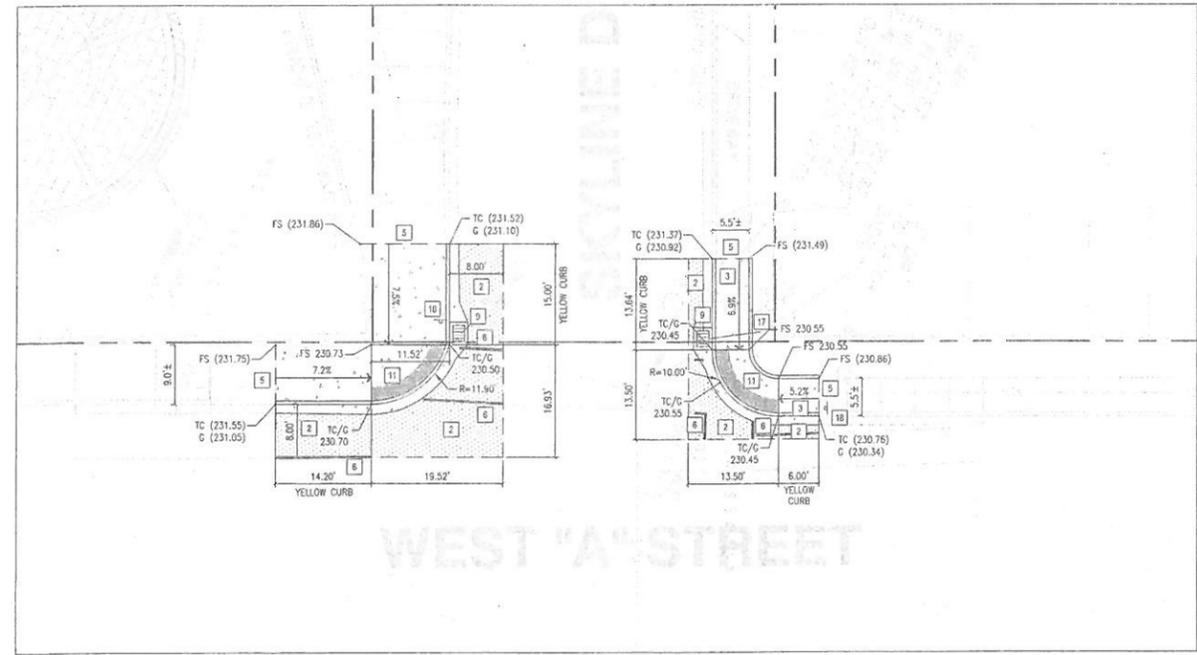
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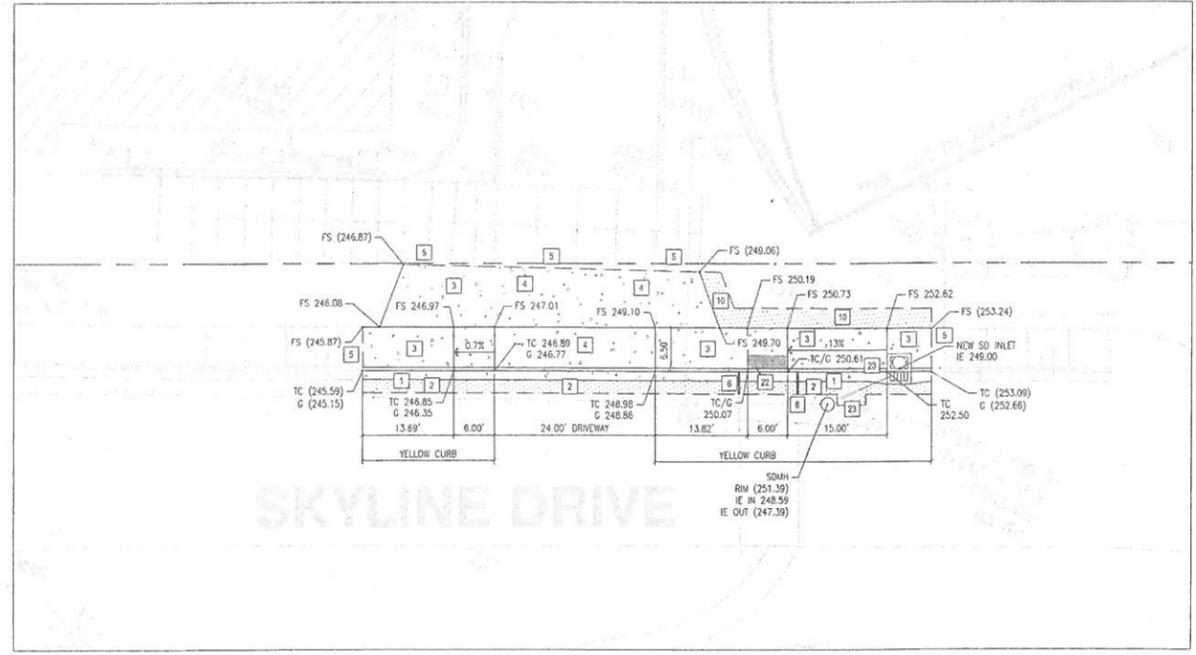
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1 SITE PLAN  
 WEST "A" STREET  
 SCALE: 1"=10'-0"



2 SITE PLAN  
 WEST "A" ST. & SKYLINE DR.  
 SCALE: 1"=10'-0"



3 SITE PLAN  
 SKYLINE DRIVE  
 SCALE: 1"=10'-0"

**SITE CONSTRUCTION NOTES**

- 1 CONSTRUCT TYPICAL CONCRETE CURB AND GUTTER. PAINT CURB COLOR INDICATED ON PLAN. 1  
C3/C4
- 2 INSTALL ASPHALT PAVEMENT. MATCH EXISTING AC PAVING. PROVIDE TACK COAT AT JOINT. 2  
C3/C4
- 3 INSTALL CONCRETE SIDEWALK. 3  
C3/C4
- 4 CONSTRUCT CONCRETE DRIVEWAY - STYLE #1. 4  
C3/C4
- 5 CONNECT NEW SIDEWALK TO EXISTING SIDEWALK. 5  
C3/C4
- 6 INSTALL WHITE THERMOPLASTIC STRIPING. 6  
C3/C4
- 7 INSTALL WHITE THERMOPLASTIC CROSSWALK STRIPING. 7  
C3/C4
- 8 CONSTRUCT CURB RAMP - STYLE #1. 8  
C3/C4
- 9 INSTALL CONCRETE CATCH BASIN. CONNECT TO EXISTING STORM DRAIN PIPING. 9  
C3/C4
- 10 PATCH ASPHALT WALKWAY IN KIND. MATCH EXISTING AC PAVING. PROVIDE TACK COAT AT JOINT. 10  
C3/C4
- 11 CONSTRUCT CURB RAMP - STYLE #2. 11  
C3/C4
- 12 INSTALL TYPICAL STRAIGHT CONCRETE CURB & PAINT CURB YELLOW. 12  
C3/C4
- 13 INSTALL CAST-IN-PLACE TRENCH DRAIN. CONNECT TO EXISTING STORM DRAIN PIPING. 13  
C3/C4
- 14 CONSTRUCT CONCRETE DRIVEWAY - STYLE #2. 14  
C3/C4
- 15 CONSTRUCT CURB RAMP - STYLE #3. 15  
C3/C4
- 16 PAINT CURB BLUE WITH WHITE "POLICE PARKING ONLY" STENCIL. 16  
C3/C4
- 17 CONNECT SIDEWALK UNDERDRAIN TO NEW CATCH BASIN. 17  
C3/C4
- 18 INSTALL SALVAGED "STOP" SIGN. 18  
C3/C4
- 19 INSTALL SALVAGED "PERMIT PARKING ONLY" SIGN. 19  
C3/C4
- 20 INSTALL SALVAGED PEDESTRIAN CROSSING SIGN. 20  
C3/C4
- 21 RE-ESTABLISH ROADWAY STRIPING WHERE CROSSWALK STRIPING WAS REMOVED. 21  
C3/C4
- 22 INSTALL TRUNCATED DOME WALKING STRIP. 22  
C3/C4

WINZLER & KELLY  
 1875 SW Sequoia Parkway, Suite 140 Portland, OR 97224  
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BAR IS ONE INCH ON ORIGINAL DRAWING

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WEST LINN - WILSONVILLE SCHOOL DISTRICT  
 WEST LINN HIGH SCHOOL  
 PUBLIC ADA IMPROVEMENTS

SITE PLAN

PROJNO: 11456-11006

DRWN: STS

CHKD: MBW

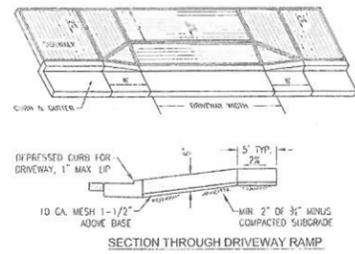
C3

SHEET

OF

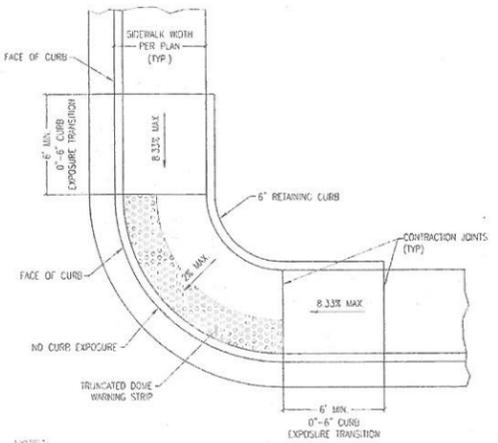
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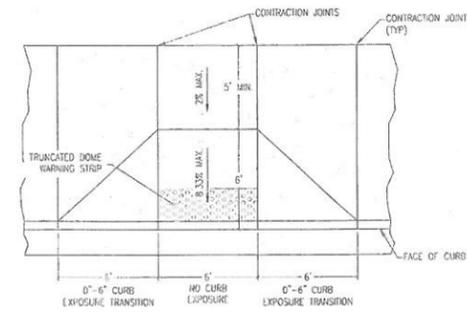
- NOTES:**
1. CONCRETE SHALL HAVE A MINIMUM BREAKING STRENGTH OF 4000 PSI AFTER 28 DAYS, 6 SACK MIX.
  2. CURB JOINT SHALL BE A BROWLEED JOINT WITH A MIN. 1/2" RADIUS ALONG BACK OF CURB.
  3. DRIVEWAY CONCRETE SHALL BE A MINIMUM OF 6" THICK.
  4. DRIVEWAY CURB C/J SHALL COMPLY WITH THE CONDITIONS OF S.0070, "WIDTH AND LOCATION OF CURB CUTS".

**1 COMMERCIAL DRIVEWAY - STYLE #2**  
SCALE: NTS



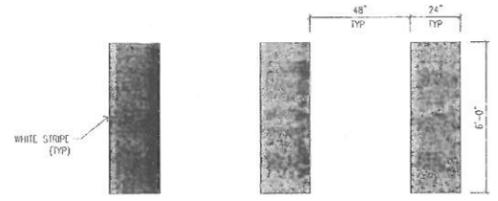
- NOTES:**
1. LANDING AT TOP OF RAMP SHALL NOT EXCEED 2% IN ANY DIRECTION AND SHALL BE A MINIMUM OF 60" x 60".
  2. RAMP CROSS SLOPE SHALL NOT EXCEED 2% (AS MEASURED PERPENDICULAR TO PEDESTRIAN TRAFFIC FLOW).
  3. TRUNCATED DOME MUST EXTEND THE FULL WIDTH OF THE RAMP AND COVER THE FIRST 2 FEET OF THE RAMP CLOSEST TO THE STREET. SEE CITY OF WEST LINN STANDARD DRAWING WL-506C FOR TRUNCATED DOME DETAIL.
  4. TRANSITIONS FROM THE RAMP TO THE WALKWAY, GUTTER, AND STREET MUST BE FLUSH (LEVEL) AND FREE OF ABRUPT LEVEL CHANGES.
  5. THE OUTER OR ADJACENT ROADWAY MUST HAVE A SLOPE OF NO MORE THAN 5 PERCENT (1:20) TOWARD THE RAMP.
  6. FLARED SIDE ("WINGS") OF THE CURB RAMP SHALL NOT EXCEED 10% IN SLOPE (0.33% IF PEDESTRIAN TRAVEL IS REQUIRED OVER THEM PER ADA STANDARDS).
  7. CONCRETE STRENGTH SHALL BE 3300 PSI.
  8. PLACE CONTRACTION JOINTS AS SHOWN ABOVE.
  9. NO ABOVE GROUND UTILITIES ARE PERMITTED WITHIN RAMP AREA.

**2 CURB RAMP - STYLE #2**  
SCALE: NTS

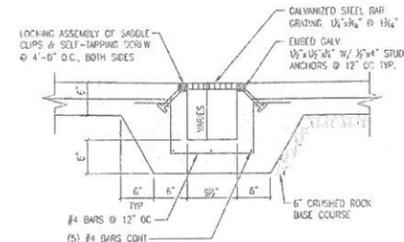


- NOTES:**
1. LANDING AT TOP OF RAMP SHALL NOT EXCEED 2% IN ANY DIRECTION AND SHALL BE A MINIMUM OF 60" x 60".
  2. RAMP CROSS SLOPE SHALL NOT EXCEED 2% (AS MEASURED PERPENDICULAR TO PEDESTRIAN TRAFFIC FLOW).
  3. TRUNCATED DOME MUST EXTEND THE FULL WIDTH OF THE RAMP AND COVER THE FIRST 2 FEET OF THE RAMP CLOSEST TO THE STREET. SEE CITY OF WEST LINN STANDARD DRAWING WL-506C FOR TRUNCATED DOME DETAIL.
  4. TRANSITIONS FROM THE RAMP TO THE WALKWAY, GUTTER, AND STREET MUST BE FLUSH (LEVEL) AND FREE OF ABRUPT LEVEL CHANGES.
  5. THE OUTER OR ADJACENT ROADWAY MUST HAVE A SLOPE OF NO MORE THAN 5 PERCENT (1:20) TOWARD THE RAMP.
  6. FLARED SIDE ("WINGS") OF THE CURB RAMP SHALL NOT EXCEED 10% IN SLOPE (0.33% IF PEDESTRIAN TRAVEL IS REQUIRED OVER THEM PER ADA STANDARDS).
  7. CONCRETE STRENGTH SHALL BE 3300 PSI.
  8. PLACE CONTRACTION JOINTS AS SHOWN ABOVE.
  9. NO ABOVE GROUND UTILITIES ARE PERMITTED WITHIN RAMP AREA.

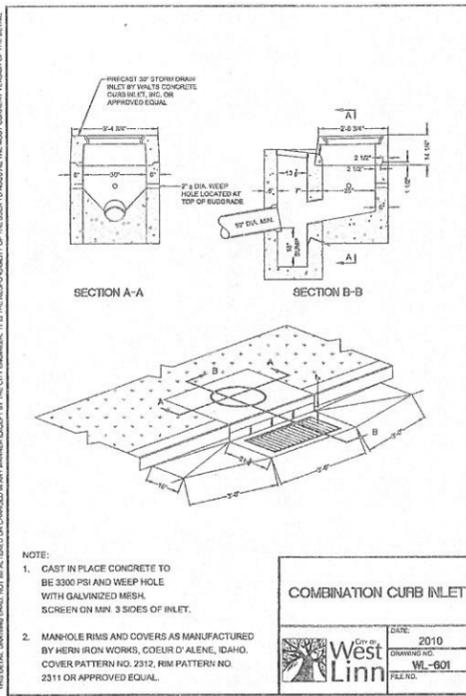
**3 CURB RAMP - STYLE #3**  
SCALE: NTS



**4 CROSSWALK STRIPING**  
SCALE: NTS



**5 TRENCH DRAIN**  
SCALE: NTS

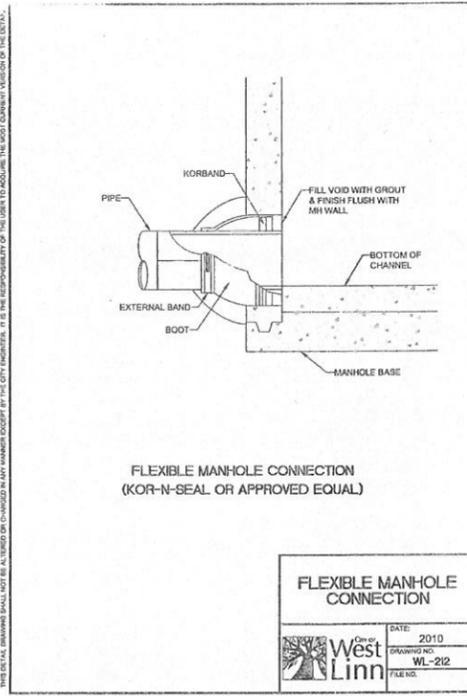


- NOTE:**
1. CAST IN PLACE CONCRETE TO BE 3300 PSI AND WEEP HOLE WITH GALVANIZED MESH SCREEN ON MIN. 3 SIDES OF INLET.
  2. MANHOLE RIMS AND COVERS AS MANUFACTURED BY HERRN IRON WORKS, COLEBY D'ALENE, IDAHO. COVER PATTERN NO. 2312, RIM PATTERN NO. 2311 OR APPROVED EQUAL.

**COMBINATION CURB INLET**

DATE:	2010
DRAWING NO.:	WL-001
FILED:	

**6 COMBINATION CURB INLET**  
SCALE: NTS



**FLEXIBLE MANHOLE CONNECTION (KOR-N-SEAL OR APPROVED EQUAL)**

**FLEXIBLE MANHOLE CONNECTION**

DATE:	2010
DRAWING NO.:	WL-212
FILED:	

**7 FLEXIBLE MANHOLE CONNECTION**  
SCALE: NTS

2014.05.08 9:18 AM A:STEVENS C:\11456-11006\WL-212\DWG\WEST LINN WILSONVILLE SCHOOL DISTRICT\11456-11006\WL-212\DWG\11456-11006\_C5\_DETAILS.DWG

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15775 SW Sequoia Parkway, Suite 140 Portland, OR 97224  
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**WEST LINN - WILSONVILLE SCHOOL DISTRICT  
WEST LINN HIGH SCHOOL  
PUBLIC ADA IMPROVEMENTS**

**DETAILS**

PROJNO: 11456-11006  
DRWN: STS CHD: MBW  
**C5**  
SHEET OF