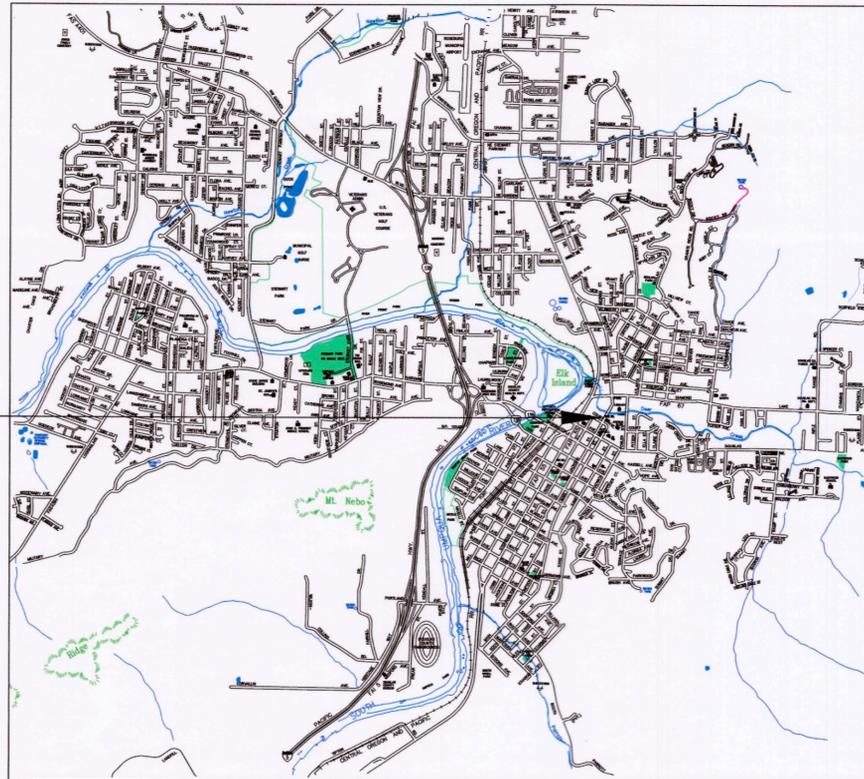


CITY OF ROSEBURG DEER CREEK TRAIL PROJECT PROJECT# 16UR02

- SHEET INDEX:**
- C1. COVER SHEET**
 - C2. SITE PLAN**
 - C3. STANDARD DETAILS**
 - C4. LIGHTING DETAILS**
 - C5. CROSS SECTIONS**
 - C6. LANDSCAPE PLAN**
 - C7 STAIRCASE STRUCTURAL NOTES**
 - C8 STAIRCASE DETAILS**

PROJECT LOCATION



| | |
|---------|------|
| DESIGN: | NUM |
| DRAWN: | NUM |
| SCALE: | NTS |
| SHEET: | C1/8 |

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| DATE: | 7/19/16 |
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Deer Creek Trail
Project
Cover Sheet
16UR02

CITY PUBLIC WORKS INSPECTION SCHEDULE

THE CITY OF ROSEBURG PUBLIC WORKS DEPARTMENT AND THE ENGINEER SHALL BE NOTIFIED FOR INSPECTION AT LEAST 24 HOURS PRIOR TO THE ACCOMPLISHMENT OF THE FOLLOWING STAGES OF CONSTRUCTION.

- PHONE: (541) 492-6730
- ANY STORM SEWER CONSTRUCTION (INCLUDING CATCH BASINS OR TRENCH DRAINS)
 - FINISH SUB-GRADE (PRIOR TO GEO-GRID INSTALLATION)
 - ANY STRUCTURE REMOVAL OR CONCRETE FOOTINGS
 - ANY CONCRETE WORK
 - FINISH BASE COURSE GRADE
 - PAVING
 - STAIR INSTALLATION
 - PIPE INSTALLATION

ABBREVIATIONS:

- EG : EXISTING GRADE BE: BASE ELEVATION
FG: FINISHED GRADE ELEV: ELEVATION

GENERAL NOTES:

- THE 2015 EDITION OF THE OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION PREPARED BY THE OREGON DEPARTMENT OF TRANSPORTATION AND THE AMERICAN PUBLIC WORKS ASSOCIATION OREGON CHAPTER WILL BE CONSIDERED THE STANDARD SPECIFICATIONS
- PATH LOCATIONS SHOWN ON ENGINEERING DRAWINGS ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR ANY SURVEY OR STAKING WORK
- THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITY COMPANIES FOR LOCATIONS OF MAINLINE AND SERVICE LINE LOCATIONS PRIOR TO DIGGING. CONTRACTOR TO CONTACT ONE-CALL AT LEAST 48 HOURS PRIOR TO CONSTRUCTION AT 811
- ENGINEER AND CITY TO BE NOTIFIED FOR INSPECTION AS SHOWN ON DRAWINGS OR AS SPECIFIED IN "GENERAL NOTES" FOR THAT SPECIFIC CONSTRUCTION ITEM
- CONTRACTOR TO FIELD VERIFY TYPE, LOCATION, AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF NEW PIPING
- CONTRACTOR RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS FOR WORKING IN PUBLIC RIGHT-OF-WAYS (I.E. ODOT, COUNTY)
- CONTRACTOR SHALL CONTACT PROJECT MANAGER WHEN ANY IRRIGATION LINES, SPRINKLER HEADS, VALVES, IRRIGATION WIRING, VALVE BOXES, POWER LINES, OR POWER JUNCTION BOXES ARE DAMAGED OR WHEN EXPOSED FROM PATH CONSTRUCTION. CONTRACTOR TO COORDINATE LOCATION OF RELOCATED IRRIGATION LINES, SPRINKLER HEADS, VALVES, VALVE BOXES, POWER LINES, AND POWER JUNCTION BOXES WITH CITY STAFF
- CONTRACTOR TO REPAIR/REPLACE ANY IRRIGATION LINES, VALVE BOXES, AND SPRINKLER HEADS THAT ARE DAMAGED FROM EQUIPMENT OR OTHER MEANS ASSOCIATED WITH PATH CONSTRUCTION THAT IS OUTSIDE NEW PATH SECTION
- CONTRACTOR WILL BE REQUIRED TO REPLACE ANY EXISTING SIDEWALK, CURB, GUTTER OR PAVEMENT THAT IS DAMAGED FROM PATH CONSTRUCTION
- CONTRACTOR TO CONTACT PROJECT MANAGER WHEN ANY STORM, WATER, GAS, POWER, OR COMMUNICATION LINES ARE EXPOSED FROM CONSTRUCTION
- CONTRACTOR MUST CLEAR ANY TREE TRIMMING OR BRUSH CLEARING WITH ENGINEER
- ALL PATH CROSS-SLOPES SHALL NOT EXCEED 2%. RUNNING SLOPES SHALL NOT EXCEED 5%
- ALL EXISTING WHEEL STOP BUMPERS WITHIN NEW STRIPING AREA SHALL BE REMOVED BY CONTRACTOR. CONTRACTOR NOT RESPONSIBLE FOR STRIPING NEW AREA. CONTRACTOR TO REPLACE WHEEL STOP BUMPERS THAT ARE MARKED ON DRAWING

LEGEND:

- | | | | |
|--|------------------------------|--|-----------------------------|
| | NEW CATCH BASIN | | EXISTING CONCRETE STRUCTURE |
| | NEW STORM LINE | | NEW IRRIGATION LINE |
| | EXISTING STORM LINE | | NEW POWER LINE |
| | EXISTING WHEEL STOP | | NEW BIO_SWALE |
| | EXISTING CATCH BASIN | | NEW TOP SOIL |
| | NEW STRIPING | | NEW CURB |
| | EXISTING RETAINING WALL | | NEW WHEEL STOP |
| | NEW ASPHALT | | EXISTING WATER METER |
| | EXISTING BOTTOM FACE OF CURB | | EXISTING LIGHT POLE |
| | EXISTING BACK OF CURB | | NEW LIGHT POLE |
| | EXISTING TOP OF BANK | | EXISTING GAS VALVE |
| | EXISTING GRAVEL EDGE | | NEW METAL STAIRS |
| | EXISTING GAS LINE | | EXISTING TREES |
| | EXISTING TELEPHONE LINE | | EXISTING POWER |
| | EXISTING WATER LINE | | |
| | EXISTING ASPHALT EDGE | | |

CITY OF ROSEBURG
Public Works Department
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KEYED CONSTRUCTION NOTES #:

1. INSTALL 23' OF 12" HDPE STORM PIPE ACCORDING TO DETAIL "A". SEE SHEET C3
2. CONSTRUCT AND INSTALL PRE-FABRICATED METAL STAIRS ACCORDING TO DETAILS ON SHEET C8.
3. NEW WHEEL STOPS SHALL BE INSTALLED FOR ALL PARKING STALLS TYPICAL QTY: 45
4. WHEEL STOPS SHALL BE DEMOLISHED TYPICAL QTY: 19
5. CONSTRUCT ASPHALT RAMP ACCORDING TO DETAIL "B" AND SECTION D-D. SEE SHEET C3 AND C5
6. PLACE NEW CATCH BASIN AND 25' OF 12" HDPE STORM PIPE ACCORDING TO DETAIL "C". AT CATCH BASIN TOP ELEV. 5000.2' AND PIPE INVERT ELEV. 4998.2'. AT BIO-SWALE PIPE INVERT ELEV. 4997.7'. SEE SHEET C3
7. SAW CUT AND BEGIN NEW CURB
8. CONSTRUCT LANDSCAPE BUFFER ACCORDING TO SECTION H-H. WIDTH OF BUFFER IS 5'. SEE SHEET C5
9. CONSTRUCT ASPHALT LOT ACCORDING TO SECTION E-E. SEE SHEET C5.
10. PLACE NEW CATCH BASIN AND 66' OF 12" HDPE STORM PIPE ACCORDING TO DETAIL "C". AT CATCH BASIN TOP ELEV. 5002.0' AND PIPE INVERT ELEV. 4998.5'. SEE SHEET C3
11. PLACE NEW CATCH BASIN AND 48' OF 12" HDPE STORM PIPE ACCORDING TO DETAIL "C". AT CATCH BASIN TOP ELEV. 5001.5', PIPE INVERT IN ELEV. 4998.1' AND PIPE INVERT OUT ELEV. 4998.0' AT BIO-SWALE PIPE INVERT ELEV. 4997.5'. SEE SHEET C3
12. AREA WILL BE LANDSCAPED WITH TREES AND SHRUBS FROM APPROVED LIST AND COVERED WITH 1 1/2" LAYER OF BARK MULCH. SEE SHEET C6 FOR PLAN AND LIST.
13. INSTALL LIGHT POST ASSEMBLY ACCORDING TO DETAILS F, G AND H. SEE SHEET C4
14. TRANSITION BUFFER WIDTH TO 6'.
15. REMOVE EXISTING CONCRETE STRUCTURE.
16. MARK PAVEMENT WITH 4" WIDE DIAGONAL WHITE STRIPING.
17. MARK PAVEMENT WITH 4" WIDE WHITE STRIPE FOR PARKING STALLS.
18. INSTALL 2" CONDUIT AND APPROPRIATELY SIZED POWER LINE FOR NEW LIGHTS. CONNECT TO EXISTING BREAKER BOX LOCATED ON POLE IN PARKING LOT.
19. INSTALL HANDICAP STALLS ACCORDING TO DETAIL "G". SEE SHEET C3
20. SAW CUT EXISTING ASPHALT .5' FROM EXISTING EDGE.
21. CONSTRUCT BIO-SWALE ACCORDING TO DETAIL "E" AND SECTION G-G. SEE SHEET C3 AND C4
22. CONSTRUCT PATH ACCORDING TO SECTION A-A FROM STATION 0+00 TO 0+25. SEE SHEET C5
23. CONSTRUCT PATH ACCORDING TO SECTION B-B FROM STATION 0+25 TO 1+12. SEE SHEET C5
24. CONSTRUCT PATH ACCORDING TO SECTION C-C FROM STATION 1+26 TO 2+10. SEE SHEET C5
25. CONSTRUCT LANDSCAPE ISLAND ACCORDING TO DETAIL "F" AND SECTION F-F. SEE SHEET C3 AND C5
26. RETROFIT WITH ADA APPROVED GRATE

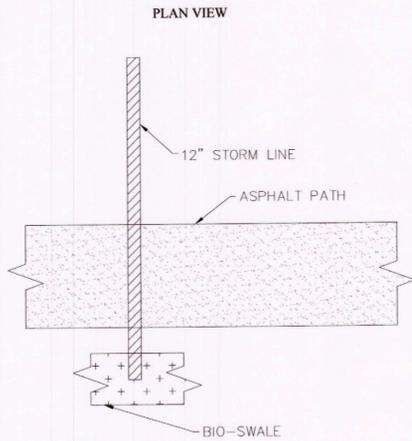
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| REVISIONS: | NUM |
| SCALE: | 1" = 15' |
| SHEET: | C2/8 |



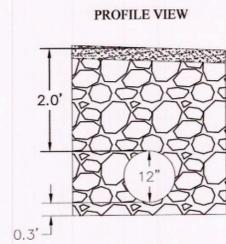
Deer Creek Trail
Project
Site Plan
16UR02

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Public Works Department
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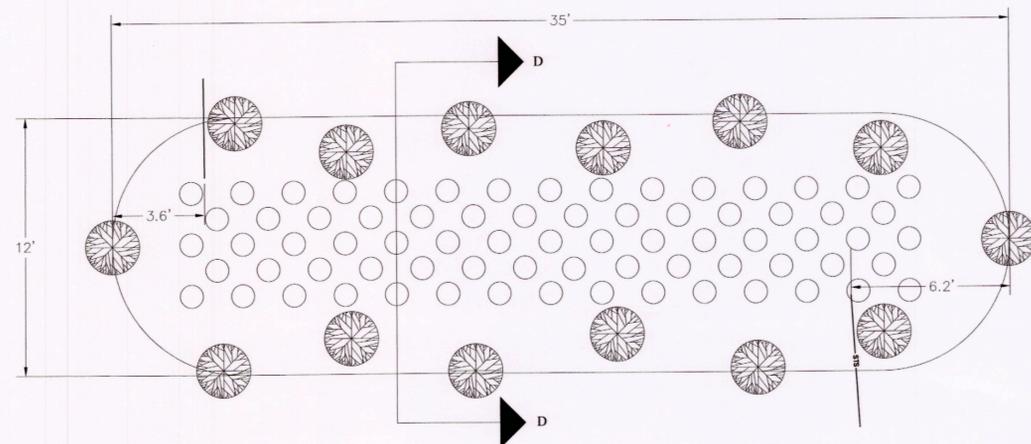


1. PIPE SHALL FALL AT 2% TOWARDS CREEK
2. THERE WILL BE 23 FEET OF HDPE STORM LINE FROM BIO-SWALE TO CREEK



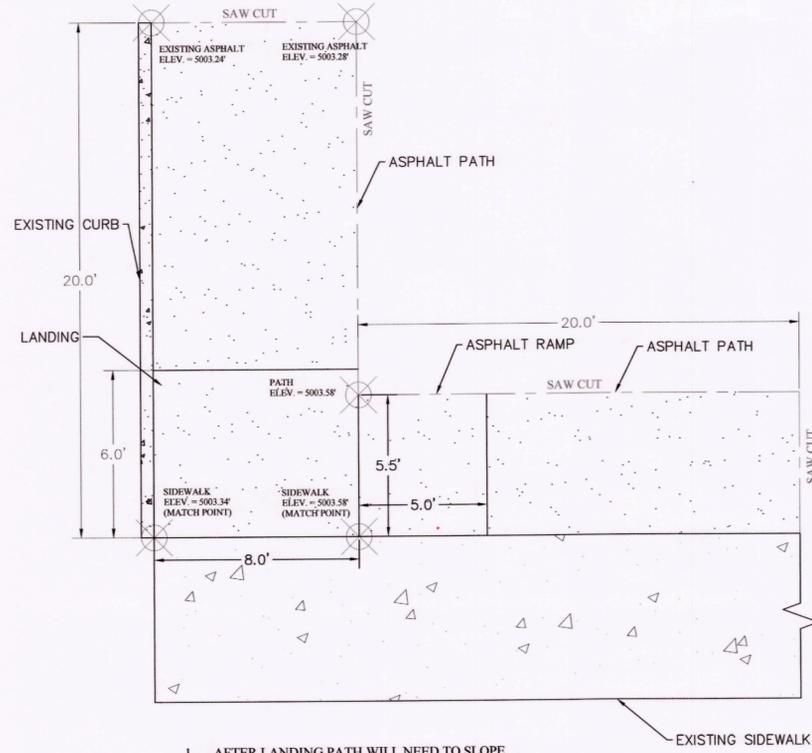
1. BOTTOM OF PIPE ELEVATION AT BIO-SWALE = 4997.50'
2. HIGH SIDE TOP OF PATH ELEVATION ABOVE PIPE = 5000.50'

DETAIL "A"
STORM PIPE



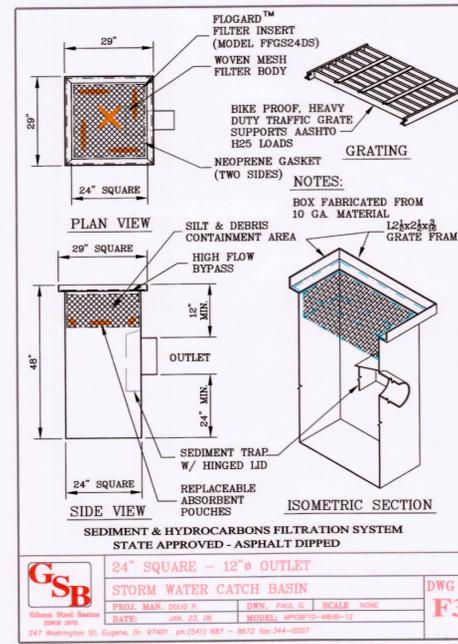
1. 12" HDPE STORM LINE EXITING WEST END OF SWALE WILL HAVE AN INVERT ELEVATION OF 4997.0'
2. 12" HDPE STORM LINE ENTERING EAST END OF SWALE WILL HAVE AN INVERT ELEVATION OF 4997.5'
3. BIO-SWALE WILL SLOPE TOWARDS WEST END AT APPROXIMATELY 2%
4. SEE SHEET C6 FOR PLANT INFORMATION
5. SEE SHEET C5 FOR CROSS SECTION

DETAIL "E"
BIO-SWALE

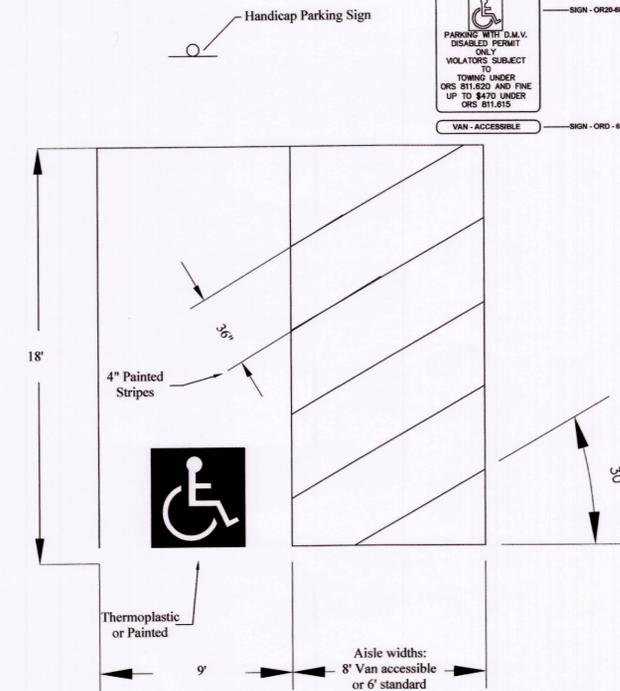


1. AFTER LANDING PATH WILL NEED TO SLOPE DOWN AT APPROXIMATELY 2% UNTIL IT MATCHES EXISTING ASPHALT LOT ELEVATION

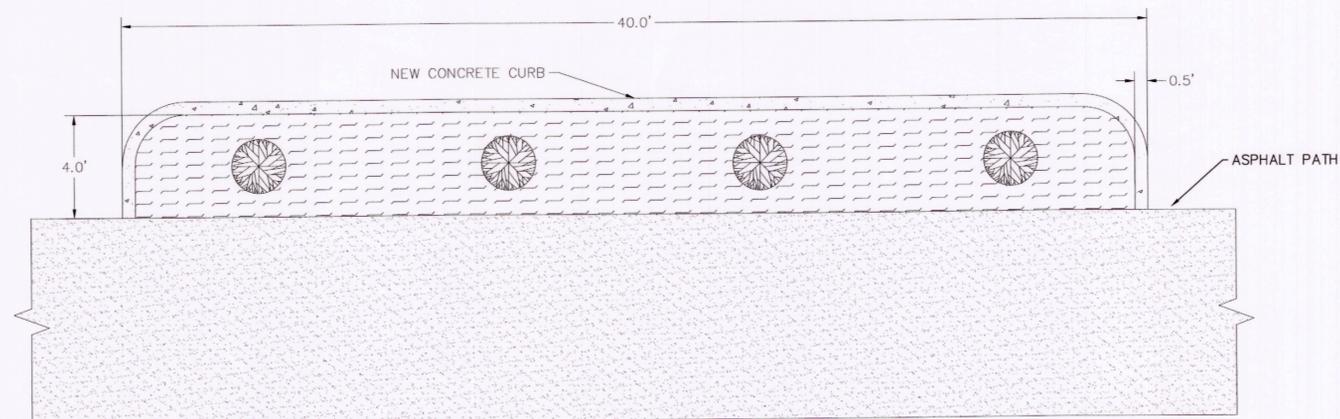
DETAIL "B"
PLAN VIEW



DETAIL "C"
CATCH BASIN



DETAIL "G"
ADA PARKING



1. PATH WILL SLOPE AWAY FROM LANDSCAPE ISLAND
2. SEE SHEET C-6 FOR PLANT DETAILS

DETAIL "F"
LANDSCAPE ISLAND

| | |
|---------|------|
| DESIGN: | NUM |
| DRAWN: | NUM |
| SCALE: | NTS |
| SHEET: | C3/8 |

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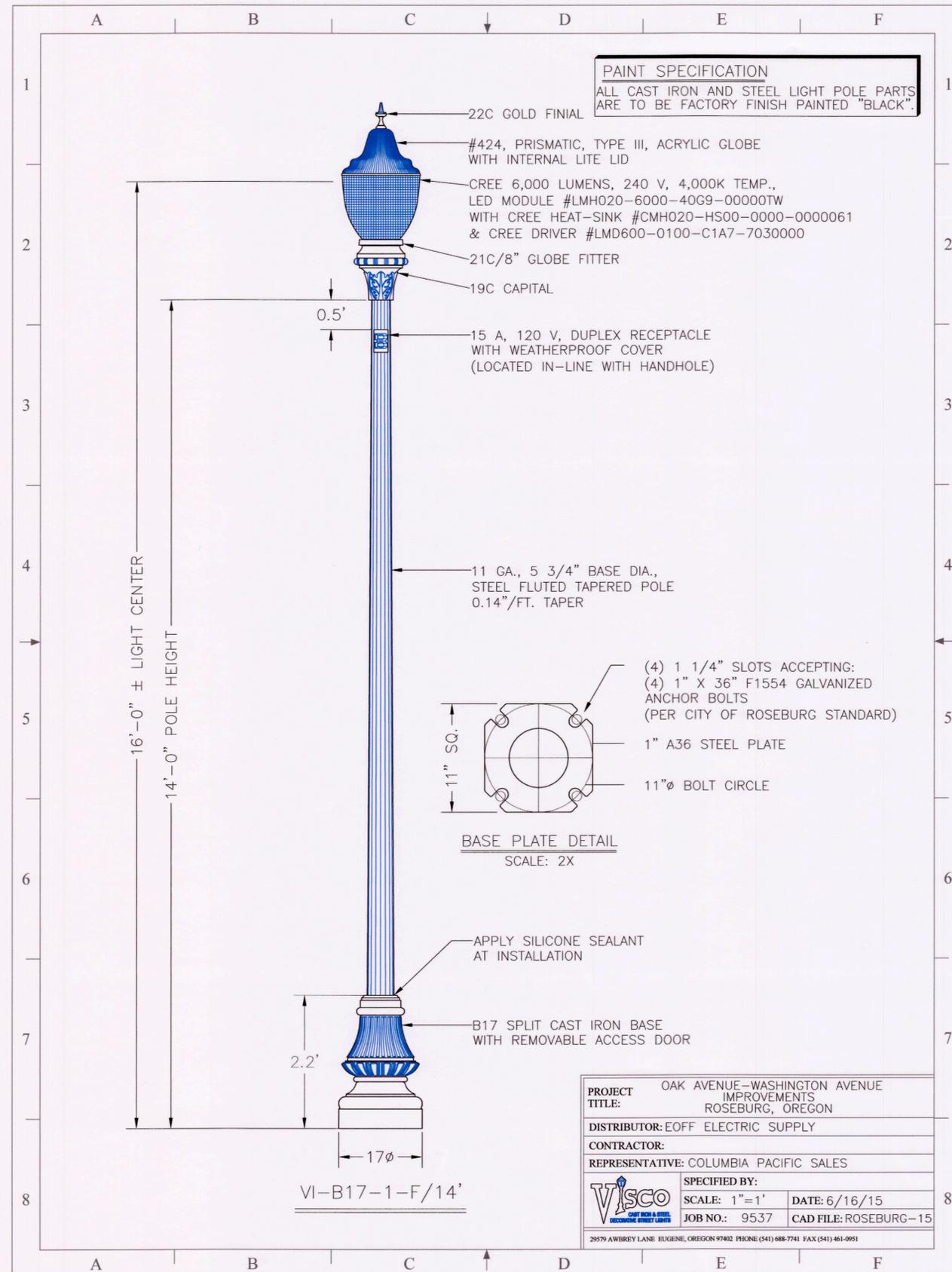


Deer Creek Trail
Project
Standard Details
16UR02

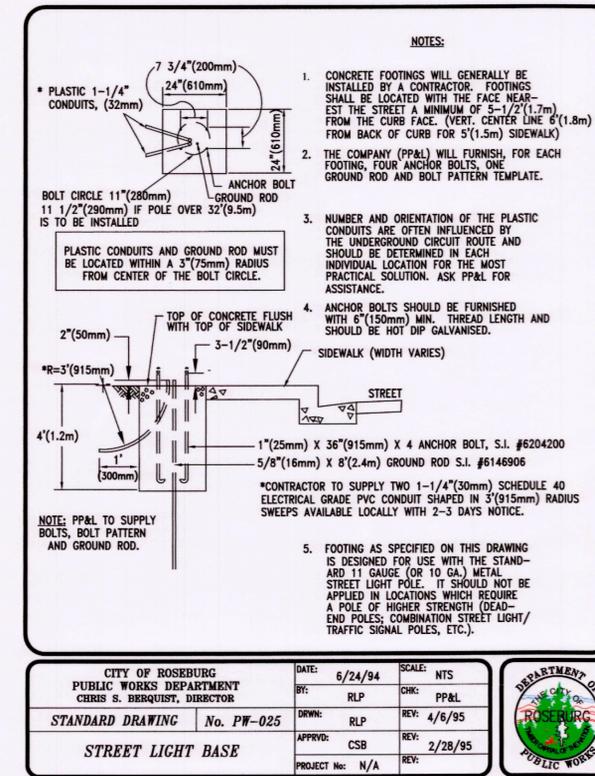
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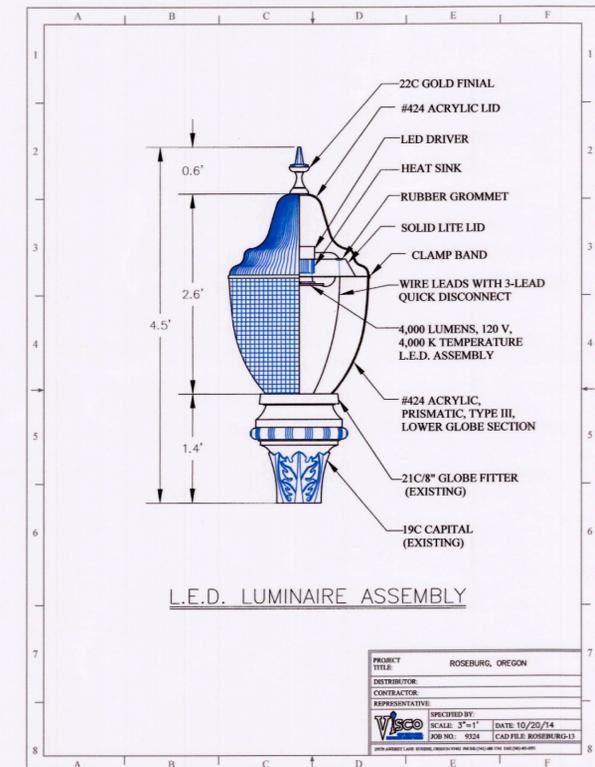
DETAIL "F"
LIGHT POST ASSEMBLY



DETAIL "G"
LIGHT POST FOOTING



DETAIL "H"
LED GLOBE ASSEMBLY



| | |
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| DRAWN: | NUM |
| SCALE: | NTS |
| SHEET: | C4/8 |

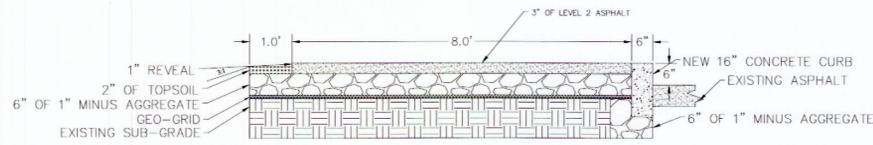
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Deer Creek Trail
Project
Lighting Details
16UR02

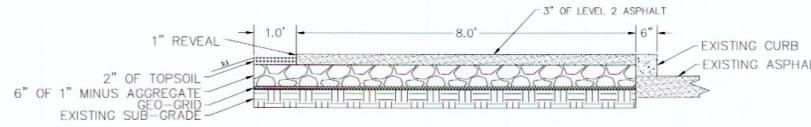
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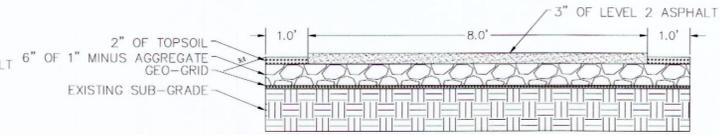
- EXISTING ASPHALT SHALL BE SAW-CUT AT NEW CURB LINE
- CONCRETE CURB SHALL BE SAW-CUT AT MATCH POINTS
- PATH SHALL SLOPE AT APPROXIMATELY 1% CROSS-SLOPE TOWARDS CREEK
- SIDE SLOPE VOIDS SHALL BE FILLED WITH 1" MINUS AGGREGATE TO ACHIEVE 3:1 SLOPE

SECTION A-A
ASPHALT PATH



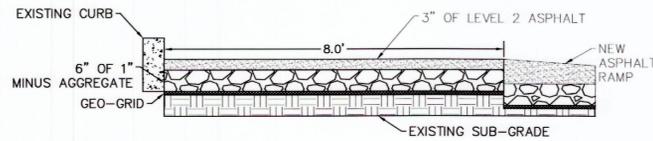
- PATH SHALL SLOPE AT APPROXIMATELY 1% CROSS-SLOPE TOWARDS CREEK
- ASPHALT SHALL BE FLUSH WITH EXISTING CURB
- EXISTING CURB SHALL REMAIN IN PLACE
- SIDE SLOPE VOIDS SHALL BE FILLED WITH 1" MINUS AGGREGATE TO ACHIEVE 3:1 SLOPE

SECTION B-B
ASPHALT PATH



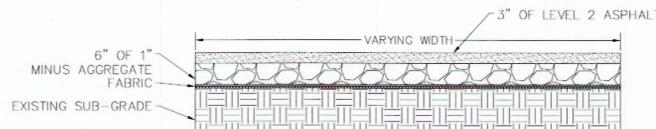
- PATH SHALL SLOPE AT APPROXIMATELY 1% CROSS-SLOPE TOWARDS CREEK
- SIDE SLOPE VOIDS SHALL BE FILLED WITH 1" MINUS AGGREGATE TO ACHIEVE 3:1 SLOPE
- APPROVED FILL SHALL BE USED TO FILL IN UNDER PATH

SECTION C-C
ASPHALT PATH



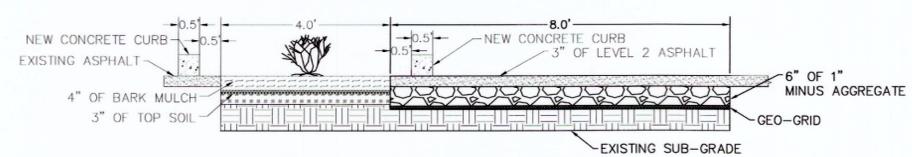
- WALKWAY SHALL SLOPE AWAY FROM CURB AT 1%
- ASPHALT SHALL BE SAW CUT BEFORE DEMOLITION
- PATH NEEDS TO MATCH EDGE OF EXISTING ASPHALT AND SIDEWALK

SECTION D-D
ASPHALT PATH



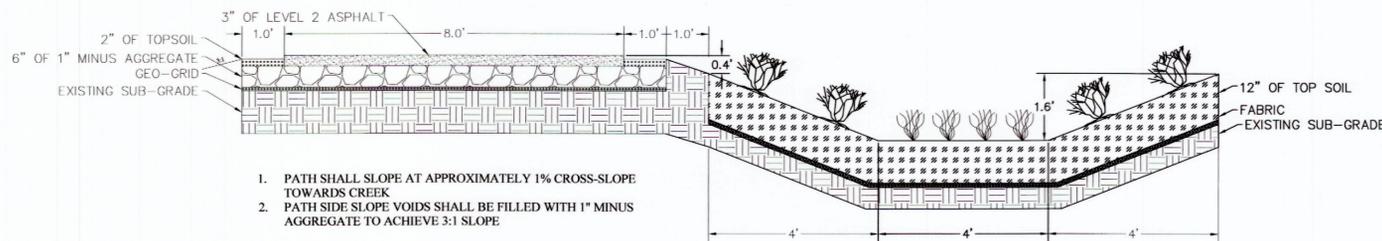
- LOTS SHALL SLOPE TOWARDS THE NEW CATCH BASINS LOCATED IN CENTER OF EACH LOT.
- NEW LOT WILL EXTEND NORTH BY APPROXIMATELY 135' FROM EXISTING LOT EDGE RUNNING EAST/WEST
- NEW LOT WILL EXTEND EAST BY APPROXIMATELY 90' FROM NEW ASPHALT PATH
- LOT WILL NEED TO MATCH EDGE OF EXISTING ASPHALT

SECTION E-E
ASPHALT LOT



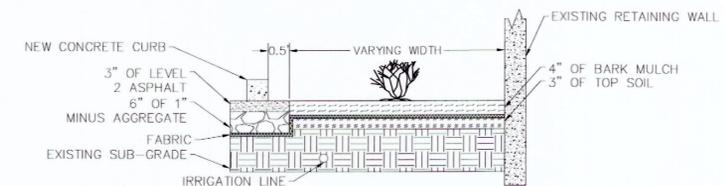
- PATH SHALL SLOPE AT 1% AWAY FROM THE LANDSCAPING
- ASPHALT SHALL BE SAW CUT BEFORE DEMOLITION

SECTION F-F
ASPHALT PATH AND LANDSCAPE ISLAND



- PATH SHALL SLOPE AT APPROXIMATELY 1% CROSS-SLOPE TOWARDS CREEK
- PATH SIDE SLOPE VOIDS SHALL BE FILLED WITH 1" MINUS AGGREGATE TO ACHIEVE 3:1 SLOPE

SECTION G-G
ASPHALT PATH AND BIO-SWALE



- 1 1/2" MAIN IRRIGATION LINE WILL RUN THROUGH LANDSCAPING BUFFER WITH POPUP SPRINKLER HEADS ON 1" LATERAL LINE. IRRIGATION LINES NEED TO HAVE A MINIMUM COVER OF 18"
- ASPHALT SHALL BE SAW CUT BEFORE DEMOLITION IN AREAS WHERE ASPHALT ALREADY EXISTS.

SECTION H-H
LANDSCAPE BUFFER

| | |
|---------|------|
| DESIGN: | NJM |
| DRAWN: | NJM |
| SCALE: | NTS |
| SHEET: | C5/8 |



Deer Creek Trail
Project
Cross Sections
16UR02

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LANDSCAPING LEGEND:

- MAIN IRRIGATION LINE 1 1/4" SCH 40 PVC QTY: 510 FT
- LATERAL IRRIGATION LINE 1" SCH 40 PVC QTY: 390 FT
- AUTO VALVE WITH BATTERY CONTROLLED NODE QTY: 3
- 1 1/4" BRASS SHUT OFF VALVE QTY: 1
- FULL CIRCLE ROTARY HEAD, ADJUSTABLE, 30' RADIUS QTY: 2
- SIDE STRIP SPRINKLER HEAD QTY: 26
- LEFT CORNER SPRINKLER HEAD QTY: 3
- RIGHT CORNER SPRINKLER HEAD QTY: 3
- JUNCUS EFFUSUS (COMMON RUSH) QTY: 73
- 1 FIVE GALLON SHRUB: CISTUS HYBRIDUS (WHITE ROCK ROSE) QTY: 37
- 2 THREE GALLON SHRUB: RIBES SANGUINEUM (RED FLOWERING CURRANT) QTY: 5
- 3 THREE GALLON SHRUB: PHYSOCARPUS CAPITATUS (PACIFIC NINEBARK) QTY: 4
- 4 THREE GALLON SHRUB: MAHONIA AQUIFOLLUM (OREGON GRAPE) QTY: 5
- 5 ONE GALLON SHRUB: CEANOTHUS GLORIOSUS (POINT REYES CEANOTHUS) QTY: 4
- 6 ONE GALLON SHRUB: ROSEMARINUS OFFICINALIS (CREEPING ROSEMARY) QTY: 4
- 7 ONE GALLON SHRUB: ARCTOSTAPHYLOS X MEDIA (MEDIA MANZANITA) QTY: 4
- 8 ONE GALLON SHRUB: BERBERIS, MAHONIA, REPENS (CREEPING HOLLY) QTY: 4
- 9 LARGE TREE: CALOCEDRUS DECURRENS (INCENSE CEDAR) QTY: 1
- 10 LARGE TREE: CEDRUS ATLANTICA (ATLAS CEDAR) QTY: 1
- 11 LARGE TREE: ACER MACROPHYLLUM (BIG LEAF MAPLE) QTY: 1
- 12 SMALL TREE: CUPRESSUS GLABRA (ARIZONA CYPRESS BLUE ICE) QTY: 5
- 13 SMALL TREE: COTINUS COGGYGRIA (ROYAL PURPLE SMOKE TREE) QTY: 3
- 14 SMALL TREE: ACER CIRCINATUM (VINE MAPLE) QTY: 4
- 15 WILL NEED TO VERIFY LOCATION AND CONDITION OF EXISTING IRRIGATION VALVE



EXISTING IRRIGATION CONTROL VALVE 15

COURT ST.

JACKSON ST.

| | |
|------------|---------|
| DESIGN: | NJM |
| DRAWN: | NJM |
| SCALE: | NTS |
| SHEET: | C6 / 8 |
| DATE: | 7/19/16 |
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Deer Creek Trail
Project
Landscape Plan
16UR02

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STAIRCASE STRUCTURAL NOTES



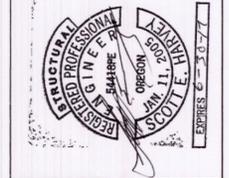
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| SCALE: | NTS |
| SHEET: | C7/8 |

OCCUPANCY CLASSIFICATIONS

| CLASSIFICATIONS | TYPE |
|-----------------|------|
| ASSEMBLY | A-3 |

| CONSTRUCTION | TYPE | REMARKS |
|-------------------------------------|------|--------------------|
| CONCRETE WALLS, WOOD FRAMED ROOF | V-B | WITHOUT SPRINKLERS |

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| DATE: | 7/19/16 |
| REVISIONS | |
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Deer Creek Trail
 Project
 Structural Notes
 16UR02

CITY OF ROSEBURG
 Public Works Department
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 Public Works



GENERAL

- The contract structural drawings and specifications represent the finished structure. They do not indicate the method of construction. The contractor shall provide all measures necessary to protect the structure during construction. Such measures shall include, but not be limited to bracing, shoring for loads due to construction equipment, etc. Observation visits to the site by the structural engineer shall not include inspection of the above items.
- The Contractor shall verify dimensions and all existing conditions shown on the drawings in the field and notify engineer of any discrepancies for correction or verification prior to construction of the affected work. The cost of additional design work due to errors or omissions in construction shall be borne by the contractor.
- Options are for the contractor's convenience. He shall be responsible for all changes necessary if he chooses an option and shall coordinate all details. The cost of additional design work necessitated by selection of an option shall be borne by the contractor.
- Establish and verify all openings and inserts for mechanical, electrical and plumbing with appropriate trades and the drawings.
- Provide all necessary temporary bracing, shoring, guying or other means to avoid excessive stresses and to hold structural elements in place during construction.
- Details on the drawings are typical. Verify all dimensions.
- Dimensions on the structural drawings are exact with the exception of masonry and sawn lumber dimensions which are nominal.
- See Architectural plans for exact location of windows and doors.
- Notes and details on drawings shall take precedence over general notes and typical details. Where no details are shown, construction shall conform to similar work on the project.
- Where reference is made to various test standards for materials, such standards shall be the latest edition and/or addendum.
- Construction materials shall be spread out if placed on framed floors or roof. Load shall not exceed the design live load per square foot.
- Drawings and specifications are instruments of service in respect to this specific project and are not intended or represented to be suitable for reuse on extensions of this project or on any other project. Any reuse without written verification or adaptation by Engineer will be at Owner's sole risk and without liability or legal exposure to Engineer. Owner shall indemnify and hold harmless Engineer from any and all claims, damages, losses and expenses including attorney's fees arising out of or resulting from unauthorized reuse.
- There are no intended third party beneficiaries.
- No changes from the approved structural plans shall be made in the field unless, prior to making changes, written approval is obtained from the Engineer. If changes are made without written approval such changes shall be the legal and financial responsibility of the contractor or sub-contractors involved and it shall be their responsibility to replace or repair the condition as directed by the Engineer.
- Engineering design provided by others and submitted for review shall bear the seal and signature of a Professional Engineer registered in Oregon.
- Use of these plans by the Contractor constitutes acceptance of these Notes and Conditions.

STRUCTURAL NOTES

CODES

- 2014 Oregon Structural Specialties Code
- ACI 318-11
- AISC 13th Edition
- AF & PA 12

DESIGN LOADS

- Gravity Loads:
 - Stair Dead Load: 20 psf
 - Stair Live Load: 100 psf

Lateral Loads:

- Wind: Speed 120 mph Risk Category II Exposure B
- Seismic: Sds = 0.689 Sd1 = 0.486 I = 1.0 Design Category D Site Class D

FOUNDATIONS

- The foundation has been designed in accordance with the minimum design load listed in the 2014 OSSC. This foundation design is only for the referenced site and structure and shall not be used at any other location or for any other structure without express written consent of the structural engineer.
 - Allowable soil bearing pressures:
 - Dead plus Live Loads: 1500 psf
- Subsurface peripheral drains shall be placed continuously around the perimeter of the foundation.
- The Contractor shall place all footings on undisturbed native soil or structural fill. The structural fill shall be moisture conditioned and compacted as specified below;
 - Structural fill shall be non-expansive material relatively free of organic material with a maximum aggregate size smaller than 2 1/2" and at least 75% smaller than 3/4". On site materials are not suitable.
 - Structural fill shall be compacted to 95 % density per ASTM D 698 at optimum moisture content.

CONCRETE

- Concrete has been designed and shall be constructed in accordance with the "Building Code Requirements for Reinforced Concrete", American Concrete Institute Standard 318-11 and Chapter 19 of the OSSC.
- All excavations shall be free of all loose material and water prior to placement of concrete.
- The engineer shall be notified at least 24 hours in advance of concrete placement so that he may compare reinforcement location with the intent of the design documents.
- Concrete work shall be in accordance with all requirements of ACI 301-10 Specifications for Structural Concrete for Buildings, ACI 302.1R-04 Guide for Concrete Floor and Slab Construction and OSSC Chapter 19, except as modified herein.
- Aggregate size: 1 1/2" maximum for footings, slabs 6 inches or more thick and other mass concrete and 3/4" for other concrete.
- No admixtures without approval. Admixtures containing chlorides shall not be used. Concrete shall not be in contact with aluminum.
- Do not place pipes, ducts, reglets or chases in structural concrete without approval of the Structural Engineer.
- Concrete regular weight 144psf with Type II cement per ASTM C150, aggregate per ASTM C33, and potable water. Except as noted hereinafter, a maximum of 20% by weight of the total cementitious materials may be replaced by fly-ash, providing the fly-ash conforms to ASTM C618, Type F. The maximum proportion of fly ash in exterior concrete from December 1 to April 1 of the following year shall be 8% by
- Maximum air content shall conform to the following: 3%±1
- Maximum slump shall conform to the following: 4" to 5"
- Minimum 28-day compressive strength: 3,000 psi

REINFORCING

- All steel reinforcing bars shall be new billet steel in accordance with ASTM A615, Grade 60. Number 3 bars may be ASTM A615 - S1, Grade 40. Placement shall conform to ACI 301-10.
- All welded wire fabric shall be lapped one full mesh plus two inches and wired at sides and ends.
- Weld reinforcing bars in conformance with AWS D1.4-79. Use low hydrogen electrodes.
- Reinforcing spacings given are maximum on center and all reinforcing is continuous unless otherwise noted.
- Provide bent corner reinforcing to match and lap with horizontal reinforcing at corners and intersections of walls, beams and footings per ACI Detailing Manual (ACI 315-05).
- Dowel all vertical reinforcing to foundations. Securely tie all reinforcing and embedded items in position before placing concrete or grout.
- Place reinforcing per ACI 318-11 and C.R.S.I. Standards.

STEEL

- Materials:
 - Tube Steel - ASTM A500, Grade B
 - Plates and Shapes - ASTM A36
 - Grating Panels and Treads - ASTM A1011
 - Threaded Rods and Bolts - ASTM A36 or ASTM A307
 - Welding Electrodes - E70 Steel Plates and Shapes E60 Steel Deck
- All steel to be hot dip galvanized
- Submit shop drawings showing all members, connections and dimensions.
- Submit certificates for the following materials:
 - Structural Steel
 - Steel for Connections
 - Welding Materials
 - Galvanizing
- Submit Current Welders Certificates

Scope of Special Inspections and Structural Observations

The following requires Special Inspection;

| Item to be inspected | Frequency |
|--|------------------------------|
| Cast in Place Concrete | Continuous |
| Concrete Reinforcing Steel and Anchor Bolts | After Placement, Before Pour |
| Anchors embedded in Epoxy Adhesive | Continuous |
| Welding (Current welding certificate required) | Periodic |

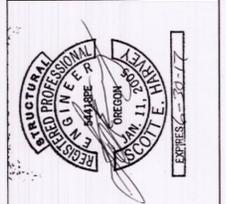
The following requires Structural Observation;

| | |
|---------------|--------------------|
| Steel Framing | After Installation |
|---------------|--------------------|

STRUCTURAL DRAWING INDEX

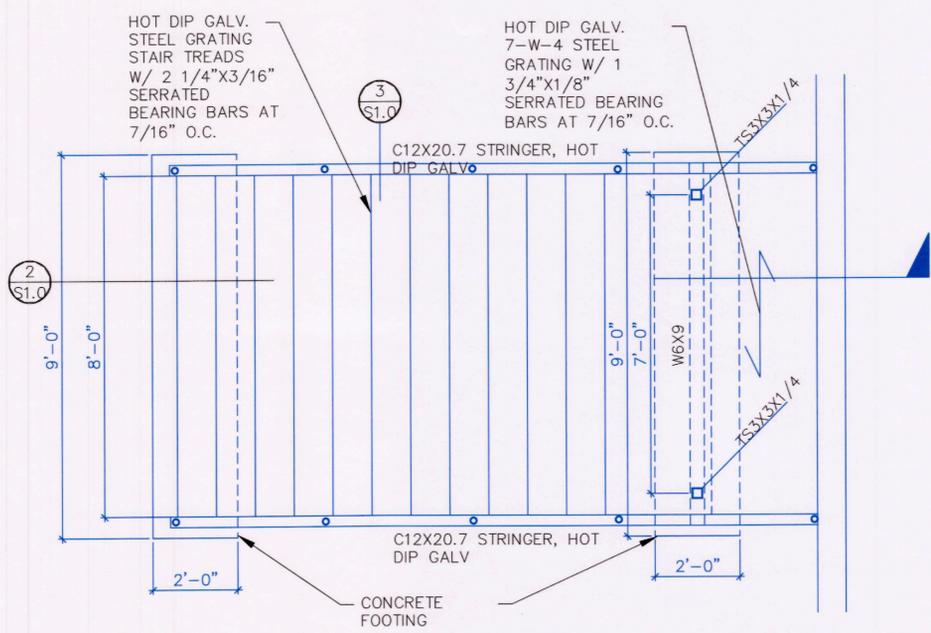
- STRUCTURAL NOTES
- STAIR PLAN AND SECTION

| | |
|---------|------|
| DESIGN: | NJM |
| DRAWN: | NJM |
| SCALE: | NTS |
| SHEET: | C8/8 |

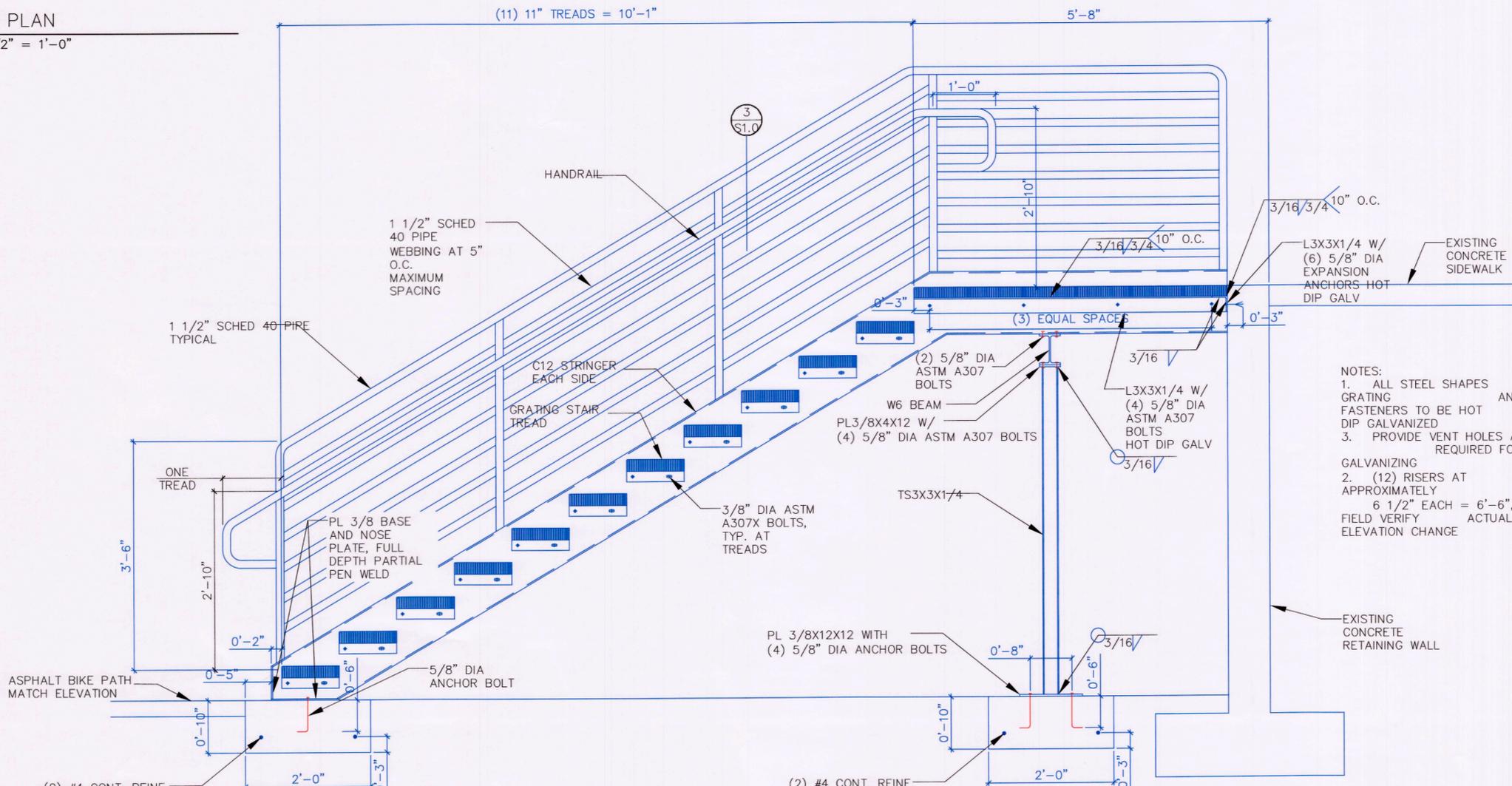


Deer Creek Trail
Project
Staircase Details
16UR02

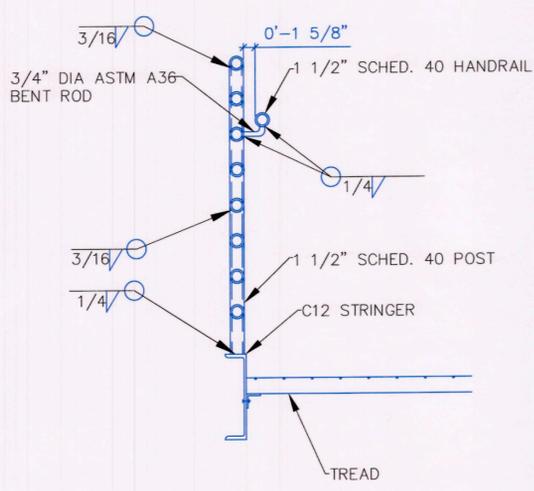
CITY OF ROSEBURG
Public Works Department
Nikki Messenger, P.E. - DIRECTOR
Public Works



1 STAIR PLAN
SCALE: 1/2" = 1'-0"



2 STAIR SECTION
SCALE: 1" = 1'-0"



3 STAIR RAIL
SCALE: 1" = 1'-0"

- NOTES:
- ALL STEEL SHAPES AND GRATING FASTENERS TO BE HOT DIP GALVANIZED
 - (12) RISERS AT APPROXIMATELY 6 1/2" EACH = 6'-6". FIELD VERIFY ACTUAL ELEVATION CHANGE
 - PROVIDE VENT HOLES AS REQUIRED FOR GALVANIZING