

RECREATION PARK IMPROVEMENT PROJECT

CHEHALIS, WASHINGTON CITY PROJECT NUMBER 16310

MAY 2019

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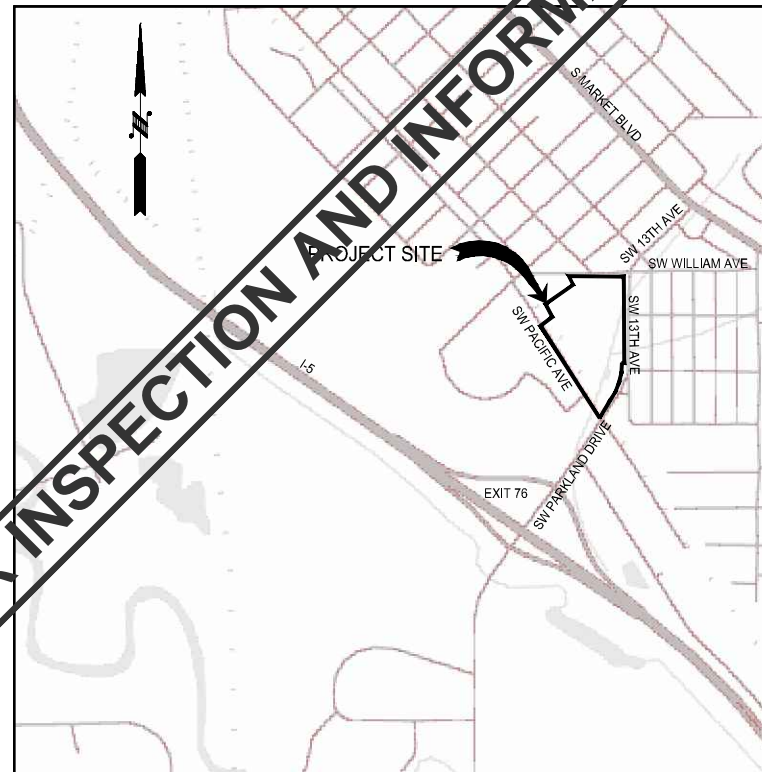
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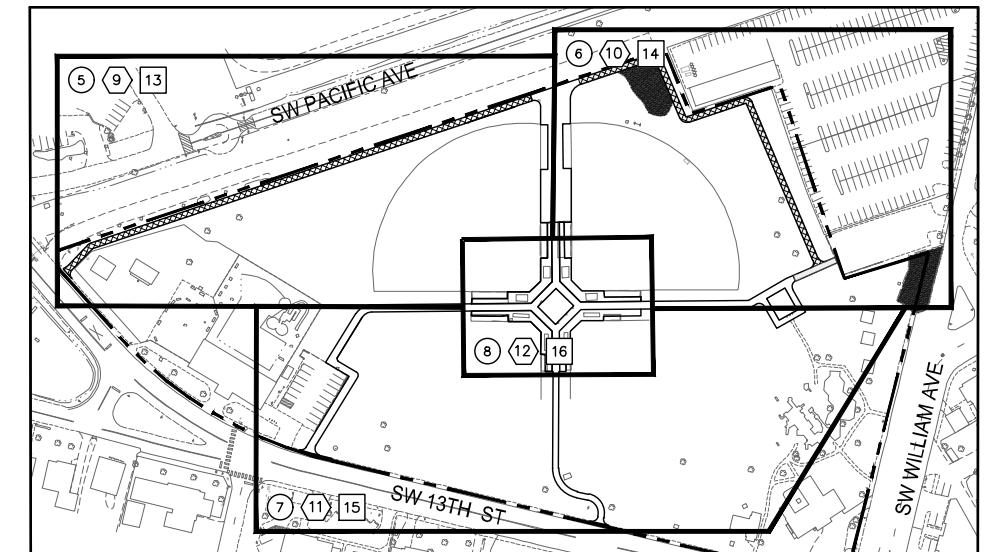
STREET/STORMWATER SUPERINTENDENT
DON SCHMITT

BID SET FOR INSPECTION AND INFORMATIONAL PURPOSE

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VICINITY MAP
NOT TO SCALE



KEY MAP
NOT TO SCALE

VERTICAL DATUM
NAVD88
PER GPS RTK TIES TO
WSDOT MONUMENTS:
CHE-06
GD21005-71
GD21005-31
P 532

BASIS OF BEARING
WASHINGTON STATE COORDINATE
SYSTEM NAD83/11, SOUTH ZONE
PER GPS RTK TIES TO WSDOT
MONUMENTS:
CHE-06
GD21005-71
GD21005-31
P 532



**SKILLINGS
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GENERAL DEMOLITION NOTES

1. ENSURE THAT REMOVAL OR MODIFICATION OF PARTIAL SYSTEMS AND FEATURES IS PERFORMED IN A MANNER THAT WILL ENSURE OPERATION AND PERFORMANCE OF THE MODIFIED SYSTEM OR FEATURE TO REMAIN AS PRIOR TO MODIFICATION. THIS INCLUDES BUT IS NOT LIMITED TO, FENCING, IRRIGATION, AND UTILITIES.
2. DEMOLITION NOTES ARE FOR CLARIFICATION ONLY AND ARE SHOWN FOR THE CONTRACTOR'S BENEFIT. THESE NOTES ARE NOT INTENDED TO BE COMPREHENSIVE. THE CONTRACTOR SHALL REMOVE OR RELOCATE ALL EXISTING ON-SITE IMPROVEMENTS NECESSARY TO ACCOMMODATE THE PROPOSED CONSTRUCTION.
3. THE DESIGN SHOWN IS BASED UPON THE ENGINEER'S UNDERSTANDING OF THE EXISTING CONDITIONS. THE PLAN DOES NOT REPRESENT A DETAILED FIELD SURVEY. THE EXISTING CONDITIONS SHOWN WITHIN THESE PLANS ARE BASED UPON THE SURVEY PERFORMED BY THE CITY OF CHEHALIS PUBLIC WORKS DEPARTMENT AND A LIMITED SKILLINGS CONNOLLY FIELD SURVEY. CONTOURS AND SURFACE DESIGN BASE ACQUIRED FROM DAVID SMITH AND ASSOCIATES AERIAL. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING FIELD CONDITIONS PRIOR TO BIDDING THE PROPOSED SITEWORK IMPROVEMENTS. IF CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITEWORK WHICH WOULD BE AFFECTED. IF CONTRACTOR DOES NOT ACCEPT EXISTING SURVEY, INCLUDING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, HE SHALL HAVE MADE, AT HIS OWN EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW.
4. **CAUTION – NOTICE TO CONTRACTOR**
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES AND EXISTING IMPROVEMENTS WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS ON THE PLANS.
5. CONTRACTOR SHALL ADJUST ALL EXISTING MANHOLE RIMS, DRAINAGE STRUCTURES, VALVE BOXES, VAULT LIDS, AND UTILITY ACCESS STRUCTURES TO FINISH GRADE WITHIN AREAS AFFECTED BY PROPOSED CONSTRUCTION.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION, REMOVAL, AND DISPOSAL OF ALL EXISTING ABOVE GRADE AND BELOW GRADE FEATURES AS NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS.
7. CONTRACTOR SHALL DISPOSE OF ALL FEATURES TO BE REMOVED NOT EXPLICITLY CALLED OUT TO BE SALVAGED OR REPLACED OTHERWISE.
8. PRIOR TO STRIPPING, CONTRACTOR SHALL MOW, RAKE, AND REMOVE ALL GRASS AT AREAS TO BE STRIPPED.
9. CONTRACTOR SHALL REMOVE AND STORE EXISTING FOUL BALL NET DURING MOBILIZATION. CONTRACTOR SHALL REPAIR AND REPLACE FOUL BALL NET PRIOR TO DEMOBILIZATION.

GENERAL UTILITY NOTES

1. ALL IMPROVEMENTS SHALL MEET LOCAL, STATE DOT, AND A.P.W.A. STANDARD SPECIFICATIONS.
2. THE DESIGN SHOWN IS BASED UPON THE ENGINEER'S UNDERSTANDING OF THE EXISTING CONDITIONS. THIS PLAN DOES NOT REPRESENT A DETAILED FIELD SURVEY. THE EXISTING CONDITIONS SHOWN ON THIS PLAN SHEET ARE BASED UPON THE SURVEY PERFORMED BY THE CITY OF CHEHALIS PUBLIC WORKS DEPARTMENT AND A LIMITED SKILLINGS CONNOLLY FIELD SURVEY. CONTOURS AND SURFACE DESIGN BASE ACQUIRED FROM DAVID SMITH AND ASSOCIATES AERIAL. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING FIELD CONDITIONS PRIOR TO BIDDING THE PROPOSED SITEWORK IMPROVEMENTS. IF CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITEWORK WHICH WOULD BE AFFECTED. IF CONTRACTOR DOES NOT ACCEPT EXISTING SURVEY, INCLUDING TOPOGRAPHY, AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, HE SHALL HAVE MADE, AT HIS OWN EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW.
3. **CAUTION – NOTICE TO CONTRACTOR**
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES AND EXISTING IMPROVEMENTS WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS ON THE PLANS.
4. ALL FILL MATERIAL SHALL BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
5. CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
6. ALL UTILITIES SHOULD BE KEPT TEN (10') APART (PARALLEL) OR WHEN CROSSING 18" VERTICAL CLEARANCE (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE).
7. LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED, AND APPROVED BEFORE BACKFILLING.
8. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.

GENERAL STORM DRAIN NOTES

1. ALL WORKMANSHIP AND MATERIALS WILL BE IN ACCORDANCE WITH THE CITY OF CHEHALIS DEVELOPMENT ENGINEERING STANDARDS AND THE MOST RECENT COPY OF THE STATE OF WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION (WSDOT/APWA).
2. TEMPORARY EROSION/WATER POLLUTION MEASURES WILL BE REQUIRED IN ACCORDANCE WITH THE STORM WATER MANAGEMENT PLAN AND SECTION 1--07.15 OF THE STANDARD SPECIFICATIONS.
3. COMPLY WITH ALL OTHER PERMITS AND REQUIREMENTS OF THE CITY OF CHEHALIS AND/OR OTHER GOVERNING AUTHORITIES OR AGENCIES.
4. A PRECONSTRUCTION MEETING WILL BE HELD WITH THE PUBLIC WORKS DEPARTMENT AND THE ENGINEERING DIVISION PRIOR TO THE START OF CONSTRUCTION.
5. ALL STORM MAINS AND RETENTION/DETENTION AREAS WILL BE STAKED FOR GRADE AND ALIGNMENT BY AN ENGINEERING OR SURVEYING FIRM CAPABLE OF PERFORMING SUCH WORK.
6. STORM DRAINPIPE WILL MEET THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS.
7. PROVIDE TRAFFIC CONTROL PLAN(S) AS REQUIRED IN ACCORDANCE WITH MUTCD TO THE PUBLIC WORKS DEPARTMENT. TRAFFIC CONTROL PLANS MUST BE APPROVED PRIOR TO THE START OF CONSTRUCTION.
8. CALL THE UTILITIES UNDERGROUND LOCATION CENTER AT 811 A MINIMUM OF TWO BUSINESS DAYS PRIOR TO ANY EXCAVATIONS.
9. WHERE CONNECTIONS REQUIRE "FIELD VERIFICATIONS," THE CONTRACTOR WILL EXPOSE CONNECTION POINTS AND VERIFY NECESSARY FITTINGS TWO BUSINESS DAYS PRIOR TO INITIATING THE WORK.
10. ALL STORM LINES AND CATCHBASINS WILL BE HIGH-VELOCITY CLEANED AND PRESSURE TESTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS PRIOR TO PAVING. HYDRANT FLUSHING OF THE LINES IS NOT AN ACCEPTABLE CLEANING METHOD. TESTING OF THE STORM MAIN WILL INCLUDE TELEVISION INSPECTION AT THE CONTRACTOR'S EXPENSE. THE PUBLIC WORKS DEPARTMENT OR DESIGNATED CONSULTANT WILL DETERMINE WHETHER THE INSPECTION WILL BE PERFORMED BY THE CITY OR BY A REPRESENTATIVE OF THE CONTRACTOR UNDER THE CITY'S DIRECTION. TESTING WILL TAKE PLACE AFTER ALL UNDERGROUND UTILITIES ARE INSTALLED AND COMPACTION OF THE ROADWAY SUBGRADE IS COMPLETED.
11. PRIOR TO BACKFILL, ALL MAINS AND APPURTENANCES WILL BE INSPECTED AND APPROVED BY A CITY INSPECTOR. APPROVAL DOES CONSTITUTE FINAL ACCEPTANCE OF THE SEWER LINE. THE CONTRACTOR WILL RETAIN RESPONSIBILITY OF REPAIRING ALL DEFICIENCIES AND FAILURES REVEALED DURING REQUIRED TESTING FOR ACCEPTANCE AND THROUGHOUT THE DURATION OF THE WARRANTY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CITY IN ADVANCE OF ALL REQUIRED INSPECTIONS. ANY MAIN OR APPURTENANCE BACKFILLED PRIOR TO INSPECTION WILL BE REEXCAVATED FOR INSPECTION AT NO COST TO THE CITY.
12. PIPE LENGTHS AND NORTHING AND EASTING COORDINATES ARE CALLED OUT CENTER OF STRUCTURE.
13. POTHOLE AT PROPOSED STORM SEWER PIPE CROSSINGS TO VERIFY CLEARANCE FROM EXISTING UTILITIES AND PIPES.
14. ALL GRATES AND LIDS SHALL BE LOCKING TYPE.
15. DRAIN BASINS SHALL BE PER DETAIL 2/C-6.2.
16. TRENCH DRAINS AND CONNECTION SHALL BE PER DETAILS 1/C-6.2 AND 3/C-6.2 RESPECTIVELY.

GENERAL GRADING NOTES

1. THE DESIGN SHOWN IS BASED UPON THE ENGINEER'S UNDERSTANDING OF THE EXISTING CONDITIONS. THE PLAN DOES NOT REPRESENT A DETAILED FIELD SURVEY. THE EXISTING CONDITIONS SHOWN ON THIS PLAN SHEET ARE BASED UPON THE SURVEY PERFORMED BY THE CITY OF CHEHALIS PUBLIC WORKS DEPARTMENT AND A LIMITED SKILLINGS CONNOLLY FIELD SURVEY. CONTOURS AND SURFACE DESIGN BASE ACQUIRED FROM DAVID SMITH AND ASSOCIATES AERIAL. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING FIELD CONDITIONS PRIOR TO BIDDING THE PROPOSED SITEWORK IMPROVEMENTS. IF CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITEWORK WHICH WOULD BE AFFECTED. IF CONTRACTOR DOES NOT ACCEPT EXISTING SURVEY, INCLUDING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, HE SHALL HAVE MADE, AT HIS OWN EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW.
2. **CAUTION – NOTICE TO CONTRACTOR**
THE CONTRACTOR IS SPECIFICALLY CAUTIONED AT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
3. THE SPOT ELEVATIONS INDICATED ON THIS PLAN REPRESENT THE DESIGN FINISHED GRADE, UNLESS OTHERWISE NOTED.
4. ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FIBRIC TO ALL SLOPES 3H:1V OR STEEPER. CONTRACTOR SHALL STABILIZE DISTURBED AREAS WITH GRASS IN ACCORDANCE WITH LOCAL SPECIFICATION UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
5. ALL CUT AND FILL SLOPES SHALL BE CONSTRUCTED PER THE IBC CODE AND APPLICABLE LOCAL REGULATION. ALL CUT AND FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.
6. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS AND SHALL SEED ALL AREAS TO PRECLUDE PONDING OF WATER.
7. ALL POLLUTANTS OTHER THAN SEDIMENT ON-SITE DURING CONSTRUCTION SHALL BE HANDLED AND DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORMWATER. THE CONTRACTOR SHALL ADHERE TO ALL TERMS AND CONDITIONS AS OUTLINED IN THE DOE CONSTRUCTION STORMWATER GENERAL PERMIT ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
8. PROPERTIES AND WATERWAYS DOWNSTREAM OF THE SITE SHALL BE PROTECTED FROM EROSION DURING INCREASES IN THE VOLUME, VELOCITY AND PEAK FLOW RATE OF STORMWATER RUNOFF FROM PROJECT SITE.
9. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES.
10. ALL SPOT ELEVATIONS SHOWN AS "ME" ARE APPROXIMATE, CONTRACTOR SHALL VERIFY ALL SPOT ELEVATION CALLOUTS AND CONTACT ENGINEER TO DISCUSS DISCREPANCIES PRIOR TO WORK IN LOCATION OF DISCREPANCY.
11. REGARDLESS OF SPOT ELEVATIONS, CONTOURS, OR GRADES SHOWN, CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT 2% CROSS SLOPE IS NOT EXCEEDED AT ANY CROSSWALKS, SIDEWALKS, OR ADA RAMPS.
12. CONSTRUCTION WILL EXTEND INTO WINTER MONTHS AND MAY TAKE PLACE DURING PROLONGED PERIODS OF COLD AND/OR INCLEMENT WEATHER. CONTRACTOR SHALL TAKE THIS INTO ACCOUNT IN PREPARING THEIR BID.
13. ON-SITE SOILS ARE MOISTURE SENSITIVE, AND DRY WEATHER CONSTRUCTION IS RECOMMENDED. IF WET WEATHER CONSTRUCTION IS PURSUED, CONSTRUCTION PRACTICES, SUCH AS THE USE OF TRACK MOUNTED EQUIPMENT, HAUL ROADS, SOIL CONDITIONING, ETC., SHALL BE IMPLEMENTED TO LIMIT SOIL DISTURBANCE. ADDITIONALLY, EROSION AND SEDIMENT CONTROL MEASURES MAY NEED TO BE SUPPLEMENTED OR ENHANCED. THE SEVERITY OF WET-WEATHER RELATED CONSTRUCTION PROBLEMS ARE DIRECTLY PROPORTIONAL TO THE ADEQUACY OF PRECAUTIONS TAKEN BY THE CONTRACTOR TO PROTECT SUBGRADE SOILS.

EROSION CONTROL NOTES

1. EROSION CONTROL MEASURES WILL BE IN PLACE PRIOR TO THE BEGINNING OF CONSTRUCTION. A REPRESENTATIVE FROM THE CITY WILL INSPECT AND APPROVE THE EROSION CONTROL MEASURES PRIOR TO THE START OF CONSTRUCTION.
2. EROSION CONTROL MEASURES ARE NOT LIMITED TO THE ITEMS ON THIS PLAN. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION MEASURES, AS REQUIRED UNDER THE MOST RECENT VERSION OF THE CHEHALIS STORM WATER MANAGEMENT PLAN AND THE WASHINGTON STATE DEPARTMENT OF ECOLOGY (DOE) CONSTRUCTION STORMWATER GENERAL PERMIT. CARE WILL BE TAKEN TO PREVENT MIGRATION OF SILT AND/OR POLLUTED RUNOFF TO OFF-SITE PROPERTIES.
3. THE CONTRACTOR WILL MAKE REGULAR SURVEILLANCE OF ALL EROSION CONTROL MEASURES. IN ADDITION, EROSION CONTROL WILL BE THOROUGHLY INSPECTED AFTER EACH RAINFALL EVENT. THE CONTRACTOR WILL MAKE ALL NECESSARY REPAIRS, MODIFICATIONS, AND ADDITIONS AS NECESSARY TO ENSURE THE PROPER OPERATION OF THE EROSION CONTROL MEASURES. THE CITY MAY REQUIRE MORE FREQUENT INSPECTIONS OF EROSION CONTROL MEASURES BY THE CONTRACTOR SHOULD SITE OR WEATHER CONDITIONS DICTATE.
4. DURING THE WET SEASON, NOVEMBER THROUGH MARCH, ALL DISTURBED SOILS WILL BE STABILIZED WITHIN 48 HOURS AFTER LAND DISTURBANCE ACTIVITIES HAVE CEASED. EROSION CONTROL MEASURES WILL INCLUDE, BUT ARE NOT LIMITED TO, INSTALLATION OF STRAW MATTING, JUTE MATTING, STRAW MULCH AND/OR WOOD CHIPS, AND COVERING THE AFFECTED AREA AND SPOIL PILES WITH PLASTIC SHEETING.
5. THE CONTRACTOR WILL CHECK ALL SEEDED OR SODDED AREAS REGULARLY TO ENSURE THAT THE VEGETATIVE COVER IS BEING ADEQUATELY ESTABLISHED. AREAS WILL BE REPAIRED, RESEEDED, AND FERTILIZED AS REQUIRED.
6. TRACKING OF SOIL OFF SITE WILL NOT BE ALLOWED. IF ANY SOIL IS TRACKED BEYOND THE LIMITS OF THE SITE, IT WILL BE REMOVED BEFORE THE END OF THAT WORKING DAY. TO PREVENT ADDITIONAL TRACKING, VEHICLE TIRES MUST BE SWEEPED OR WASHED PRIOR TO LEAVING THE PROJECT SITE.
7. NO MORE THAN 100 LINEAL FEET (LF) OF TRENCH ON A DOWNSLOPE OF MORE THAN FIVE PERCENT WILL BE OPENED AT ONE TIME.
8. EXCAVATED MATERIAL WILL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
9. EXCAVATED MATERIAL WILL NOT BE PLACED IN ESTABLISHED DRAINAGE DITCHES UNDER ANY CIRCUMSTANCES.
10. TRENCH DEWATERING DEVICES WILL BE DISCHARGED IN A MANNER THAT WILL NOT ADVERSELY AFFECT FLOWING STREAMS, DRAINAGE SYSTEMS, OR OFF-SITE PROPERTIES. AN ESTABLISHED AND PERMITTED SEDIMENT TRAP WILL BE USED AS THE RECEIVER FOR ALL TRENCH DEWATERING OPERATIONS.
11. ALL DISTURBED AREAS WILL BE SEEDED OR SODDED UPON COMPLETION OF WORK. THE CONTRACTOR WILL BE RESPONSIBLE TO ENSURE THAT COMPLETE COVERAGE OF THE DISTURBED AREAS IS PROVIDED AND THAT GROWTH OF VEGETATION IS ESTABLISHED. SEED AND SOD APPLICATIONS WILL BE CONDUCTED IN ACCORDANCE WITH THE TIMELINES NOTED IN THE MOST RECENT EDITION OF THE WSDOT STANDARD SPECIFICATIONS AND THE WASHINGTON STATE DEPARTMENT OF ECOLOGY (DOE) CONSTRUCTION STORMWATER GENERAL PERMIT.
12. ALL EROSION CONTROL WILL REMAIN IN PLACE UNTIL SUCH TIME AS THE SITE IS ADEQUATELY STABILIZED. PRIOR TO REMOVAL OF EROSION CONTROL MEASURES, THE ENGINEER SHALL BE NOTIFIED FOR FINAL INSPECTION AND APPROVAL.

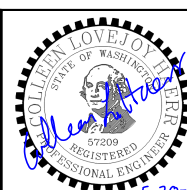
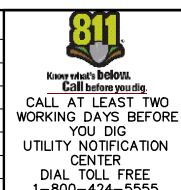
ABBREVIATIONS

1. CL – CHAIN LINK
2. PCC – PORTLAND CEMENT CONCRETE
3. HMA – HOT MIX ASPHALT
4. PT – PRESSURE TREATED

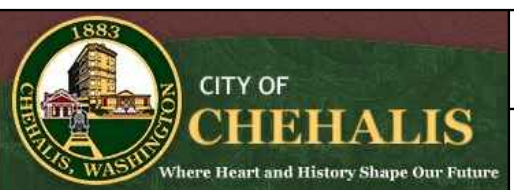
BID SET FOR INSPECTION AND INFORMATIONAL PURPOSE

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| | DATE | | REVISIONS | |
|---|------|--------|-----------|--|
| | NO. | DATE | | |
| ENTERED BY: D. HALL, EIT | | 4/1/19 | | |
| CHECKED BY: T. SKILLINGS, PE | | 4/1/19 | | |
| PROJ. ENGR.: C. HAERR, PE | | 4/1/19 | | |
| Plotted By: Muraco Heinsahn on 4/2/19 1:52 PM | | | | |
| Saved By: Mheinsahn on 3/27/19 1:20 PM | | | | |



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CHEHALIS RECREATION PARK IMPROVEMENT PROJECT
GENERAL NOTES
C-1.1

| | |
|------------|-------|
| #08 NUMBER | 16310 |
| SHEET | 2 |
| OF | 49 |
| SHEETS | |

EXISTING STORM DRAINAGE

- 1 IE NELY 12" PVC = 183.61
IE SELY 12" CONGRUD OVER INLET = 183.01
IE NWLY 12" CONC = 182.76
- 2 CB TYPE 1 RIM = 187.95
IE 12" CPP SWLY = 186.15 12" PVC
- 3 IE = 186.25 12" PVC
- 4 IE = 184.32 12" RCP
- 5 IE = 184.39 12" RCP
- 6 IE = 184.75
- 7 CB TYPE 1 - 10704
RIM = 186.94
IE = 180.70 12" CONC (NW)
IE = 182.23 24" CONC (NE)
IE = 180.91 12" CONC (SE)
IE = 179.79 24" CONC (SW)
- 8 CB TYPE 1 - 10703
RIM = 185.05
IE = 183.73 6" CONC (SE)
- 9 CB TYPE 1 - 10702
RIM = 187.62
IE = 185.90 6" CONC (NE)
- 10 CB TYPE 2 - 10701
RIM = 186.50
IE = 183.46 10" PVC (NE)
IE = 184.33 4" COMPOSITE (E)
IE = 183.42 12" CONC (SW)
- 11 1487 RIM = 186.34
SWLY 6" PVC = 185.50
- 12 CB TYPE 2 10001
RIM = 187.10
IE = 184.00 6" CONC. (NE)
IE = 183.95 12" CONC. (SE)
IE = 183.87 12" CONC. (NW)
- 13 CB TYPE 1 RIM = 187.41
IE 12" PVC SELY = 184.61
- 14 CB TYPE 1 RIM = 190.01
IE 12" PVC SELY = 186.91
IE 12" PVC NELY = 186.86
IE 15" STEEL NWLY = 186.61
- 15 CB TYPE 1 RIM = 190.61
IE 12" PVC SWLY = 187.41
IE 12" PVC SELY = 187.36
IE 12" PVC NELY = 187.31
- 16 CB TYPE 1 RIM = 191.31
IE 12" PVC NELY = 187.61
IE 12" PVC SWLY = 187.56
- 17 CB TYPE 1 RIM = 190.86
IE 12" PVC NWLY = 187.54
IE 12" PVC SELY = 187.49
- 18 CB TYPE 1 RIM = 191.43
IE 12" PVC NWLY = 187.73
- 19 CB TYPE 1 RIM = 190.77
IE 12" PVC SWLY = 188.37
- 20 CB TYPE 2 RIM = 191.22
IE 10" RCP NLY = 188.27
IE 24" RCP ELY = 187.82
IE 24" RCP WLY = 187.77
- 21 SSMH 35
RIM = 190.52
IE = 187.26
- 22 CB TYPE 1 RIM = 197.04
IE 12" RCP NLY = 193.74
IE 12" RCP ELY = 193.74
IE 12" RCP SWLY = 193.64
- 23 CB TYPE 1 RIM = 196.83
IE 6" CONC NLY = 195.38
IE 6" CONC ELY = 195.36
IE 6" CONC SWLY = 195.23
- 24 CB TYPE 1 RIM = 192.11
IE CONC ELY = 189.26
IE CONC WLY = 188.51
- 25 CB TYPE 1 RIM = 192.06
IE RCP ELY = 188.16
IE RCP SELY = 188.06
- 26 #703: RIM = 190.38
NLY 6" RCP = 186.38
ELY 6" RCP = 186.31
SWLY 6" RCP = 186.27
- 27 CB TYPE 1 RIM = 188.91
IE 8" PVC ELY = 186.31
IE 8" CONC WLY = 184.91
- 28 CB TYPE 1 RIM = 188.84
IE 8" CONC NLY = 184.59
IE 8" CONC ELY = 184.34
IE 12" CONC SWLY = 184.24
- 29 RIM = 189.09
NLY 12" RCP = 184.09
ELY 6" RCP = 184.09
SWLY 18" RCP = 184.09
- 30 CB TYPE 1 RIM = 187.64
IE 12" RCP ELY = 186.04
IE 12" RCP SWLY = 185.99
- 31 IE 8" PVC WLY = 186.15
- 32 IE 8" PVC ELY = 186.19
- 33 IE 12" RCP NLY = 187.63
- 34 #691: RIM = 189.11
WLY 6" RCP = 185.29
ELY 6" RCP = 185.34
- 35 RIM = 189.31
IE = 184.81 6" RCP
- 36 5'0" WETWELL TOP = 189.14
ELY 8" RCP = 183.81
ELY 6" RCP = 181.81
- 37 CB TYPE 1 10015
RIM = 188.25
IE = 187.28 4" PVC (S)
- 38 CB TYPE 2 10025
RIM = 189.53
IE = 187.73 4" PVC (SE)
IE = 187.14 4" PVC (NW)
IE = 187.53 4" PVC (NE)
IE = 186.86 6" PVC (SW)
- 39 CB TYPE 1 10050
RIM = 188.51
IE = 187.64 4" PVC (NE)
IE = 187.64 4" PVC (SE)
- 40 CB TYPE 1 10051
RIM = 188.51
IE = 187.95 4" PVC (SW)
- 41 CB TYPE 1 10450
RIM = 188.46
IE = 187.84 4" PVC (E)
- 42 CB TYPE 1 10052
RIM = 188.99
IE = 188.56 4" PVC (NE)
- 43 CB TYPE 1 10272
RIM = 189.43
IE = 188.48 4" PVC (SW)
- 44 CB TYPE 1 10273
RIM = 189.74
IE = 188.76 4" PVC (NE)
- 45 CB TYPE 1 10053
RIM = 189.45
IE = 189.07 4" PVC (SW)
- 46 CB TYPE 1 10376
RIM = 189.53
IE = 188.56 4" PVC (NE)
- 47 CB TYPE 1 10375
RIM = 189.66
IE = 188.69 4" PVC (NE)
IE = 188.69 4" PVC (SW)
- 48 CB TYPE 1 10374
RIM = 189.56
IE = 188.96 4" PVC (SW)
- 49 CB TYPE 1 10377
RIM = 189.32
IE = 188.77 4" PVC (SW)
- 50 CB TYPE 1 10378
RIM = 189.39
IE = 188.41 4" PVC (NE)
IE = 188.41 4" PVC (SW)
- 51 CB TYPE 1 10451
RIM = 189.18
IE = 188.20 4" PVC (E)
- 52 CB TYPE 1 10449
RIM = 188.49
IE = 188.01 4" PVC (S)
- 53 CB TYPE 1 10502
RIM = 186.42
IE = 186.13 4" COMP. (SW)
- 54 CB TYPE 1 - 10706
RIM = 189.12
IE = 183.62 12" CONC (N)
IE = 183.62 18" CONC (E)
IE = 183.62 18" CONC (S)
IE = 184.03 4" CONC (NW)

SW1/4, SE1/4, S32, T14N, R2W, WM

EXISTING SANITARY SEWER

- 1 SSMH 10572
RIM = 188.44
IE = 180.09 14" CONC. (SE)
- 2 SSMH 10571
RIM = 185.44
IE = 180.07 14" CONC. (NW)
- 3 SSMH 10503
RIM = 185.76
IE = 178.57 14" CONC. (SE)
IE = 178.49 14" CONC. (NW)
- 4 SSMH 10003
RIM = 188.61
IE = 178.33 14" CONC. (SE)
IE = 178.13 14" CONC. (NW)
- 5 SSMH 10002
RIM = 187.39
IE = 178.03 5" CONC. (NE)
IE = 177.79 14" CONC. (SE)
IE = 177.89 14" CONC. (NW)
- 6 SSMH 34
RIM = 188.61
IE = 183.78
- 7 SSMH 35
RIM = 190.52
IE = 187.26

| SITE CONTROL | | | | |
|--------------|-----------|------------|--------|--------------|
| SC # | NORTHING | EASTING | ELEV. | DESCRIPTION |
| 31 | 489312.90 | 1023638.50 | 185.14 | MAIL |
| 6001 | 489965.14 | 1023299.88 | 187.44 | MAG |
| 6002 | 489538.99 | 1023862.09 | 188.36 | 5/8" IR WYPC |
| 6015 | 490023.90 | 1023574.57 | 189.68 | MAG |
| 6017 | 490554.80 | 1023566.25 | 194.36 | CASE MON |
| 6018 | 490486.16 | 1023888.51 | 196.47 | SPIKE |
| 6019 | 490544.56 | 1023928.12 | 196.91 | CASE MON |
| 6102 | 489977.03 | 1023629.04 | 188.95 | MAG |
| 6103 | 490089.13 | 1023589.26 | 189.70 | MAG |

VERTICAL DATUM
NAVD88
PER GPS RTK TIES TO
WSDOT MONUMENTS:
CHE-06
GD21005-71
GD21005-31
P 532

BASIS OF BEARING
WASHINGTON STATE COORDINATE
SYSTEM NAD83/11, SOUTH ZONE
PER GPS RTK TIES TO WSDOT
MONUMENTS:
CHE-06
GD21005-71
GD21005-31
P 532

SITE DATA HISTORY

UTILITIES:
ACQUIRED FROM RUSSELL COX OF THE
CITY OF CHEHALIS PUBLIC WORKS DEPARTMENT
IN A EMAIL DATED
WEDNESDAY SEPTEMBER 30, 2015 AT 9:38 AM
WITH A AUTOCAD DRAWING NAMED - REC PARK UTILS.DWG.
ALSO
FROM A LIMITED FIELD SURVEY PERFORMED BY
SKILLINGS CONNOLLY
DATED: SEPTEMBER 22, 2015.

SURFACE 1 -
(EG-AERIAL FROM SCOTT SMITH AT DAVID SMITH MAPPING)
CONTOURS AND SURFACE DESIGN BASE ACQUIRED FROM
DAVID SMITH AND ASSOCIATES AERIAL, ACQUIRED MARCH
2016, DATED 02-2-16.

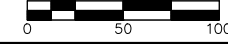
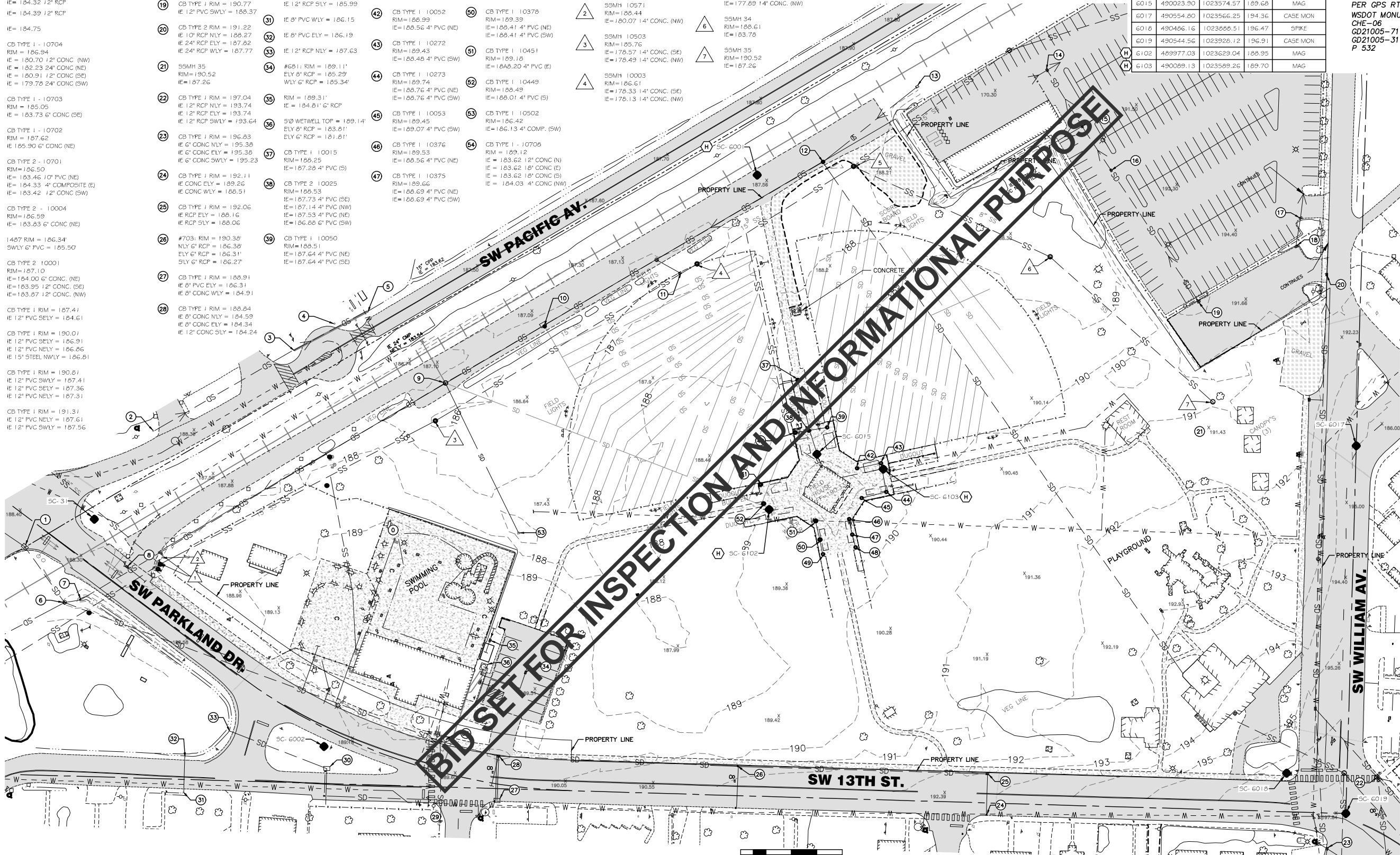
AREA B -
DATE OF PHOTOGRAPHY 2-25-2016
MAPPING WAS DESIGNED TO MEET OR EXCEED
NATIONAL MAP ACCURACY STANDARDS FOR A
1"=50', 1' CONTOUR INTERVAL MAP
DATA INSIDE OF THE OBSCURE LINES
MAY NOT MEET EXPECTED ACCURACIES

SURFACE 2 - SITE VERTICAL CONTROL
(EG-BY OTHERS NGVD29)
ORIGINAL BENCHMARK:
RIM 65 SHOWN ON FEMA FIRM MAP 530104 0002 B
NGVD29 ELEV = 182.51'
LAG BOLT IN GUARD RAIL (INTERSTATE AVE.)

SURFACE 3 - SITE HORIZONTAL CONTROL
(EG-03-22-2018 NGVD29)
(SC SURVEY-JS # JH)
USING CONTROL POINTS 6001, 6102 & 6103
TOPO OF CENTRAL CONCESSION FIELD HOUSE AND
DISCOUNT RESTROOM AND WALKWAY ACCESS FROM
SWIMMING POOL, TIE INTO PARKING LOT

LEGEND

- /// BUILDING
- SD- STORM DRAIN LINE
- SD- UNDERGROUND STORM DRAIN FIELD
- W- WATER MAIN
- SS- SANITARY SEWER LINE
- T- TRAIN TRACKS
- C- CHAIN LINK FENCE
- STORM DRAIN MANHOLE
- SANITARY SEWER MANHOLE
- STORM DRAIN CATCH BASIN
- VEGETATION (TREE-BUSH-ETC...)
- POWER POLE
- SIGN
- LIGHT POST
- LIGHT POST FIELD CLUSTER
- WATER VALVE
- CONCRETE SURFACE
- ASPHALT SURFACE



| DATE | NO. | DATE | REVISIONS |
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| CHECKED BY: R. SMITH | 4/1/19 | | |
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| Saved By: Mheinsahn on 4/2/19 10:44 AM | | | |
| G:\Project\2016\16310 Chehalis Rec Park\CAD\Drawings\Construction\Production\16310_03 TOPOGRAPHIC SURVEY.dwg | | | |

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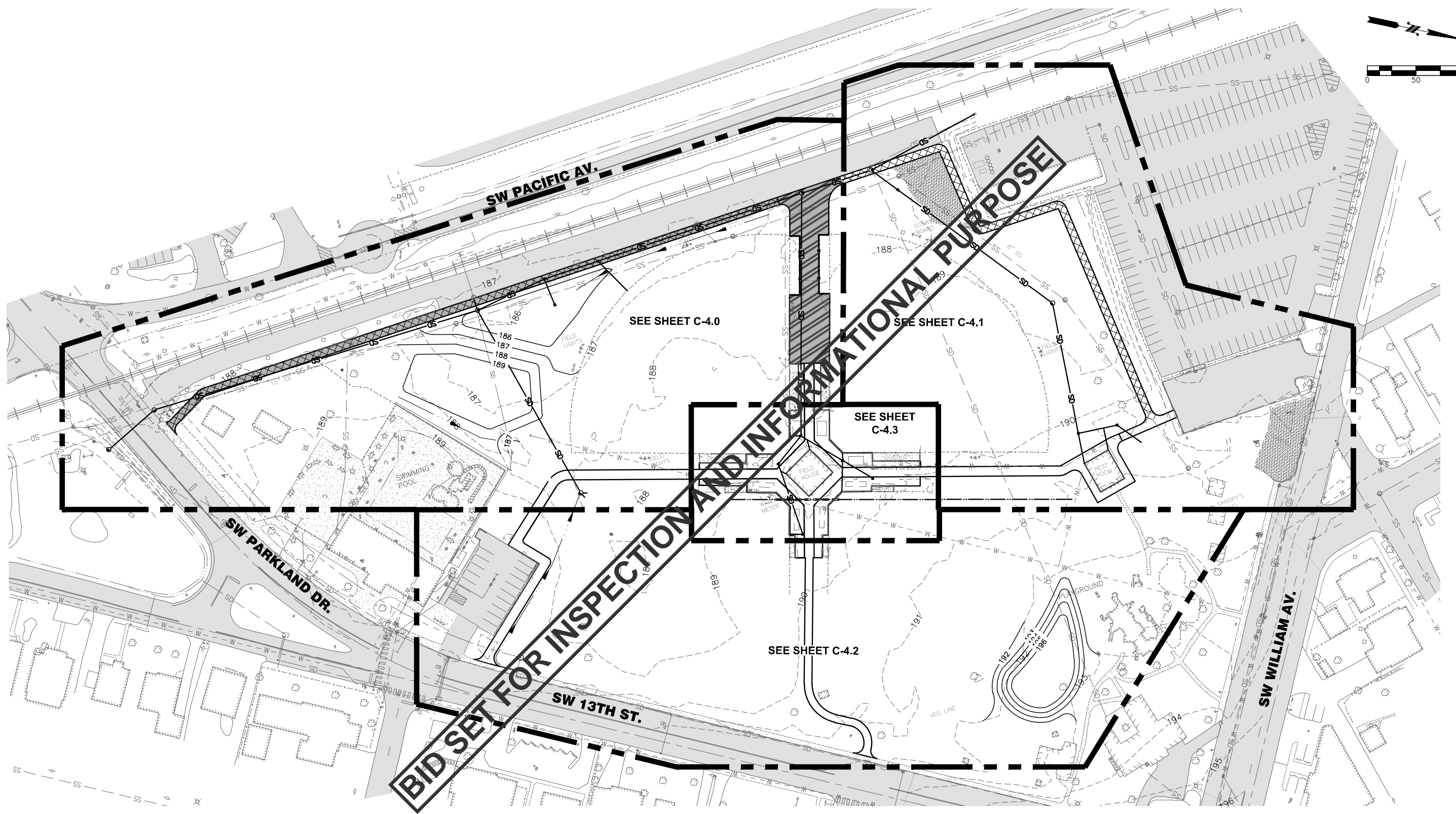
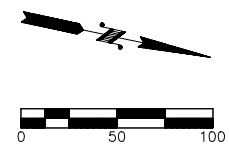
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CITY OF CHEHALIS
Where Heart and History Shape Our Future

**CHEHALIS RECREATION PARK
IMPROVEMENT PROJECT
EXISTING CONDITIONS SITE MAP**

C-1.2

JOB NUMBER: 16310
SHEET 3 OF 49 SHEETS

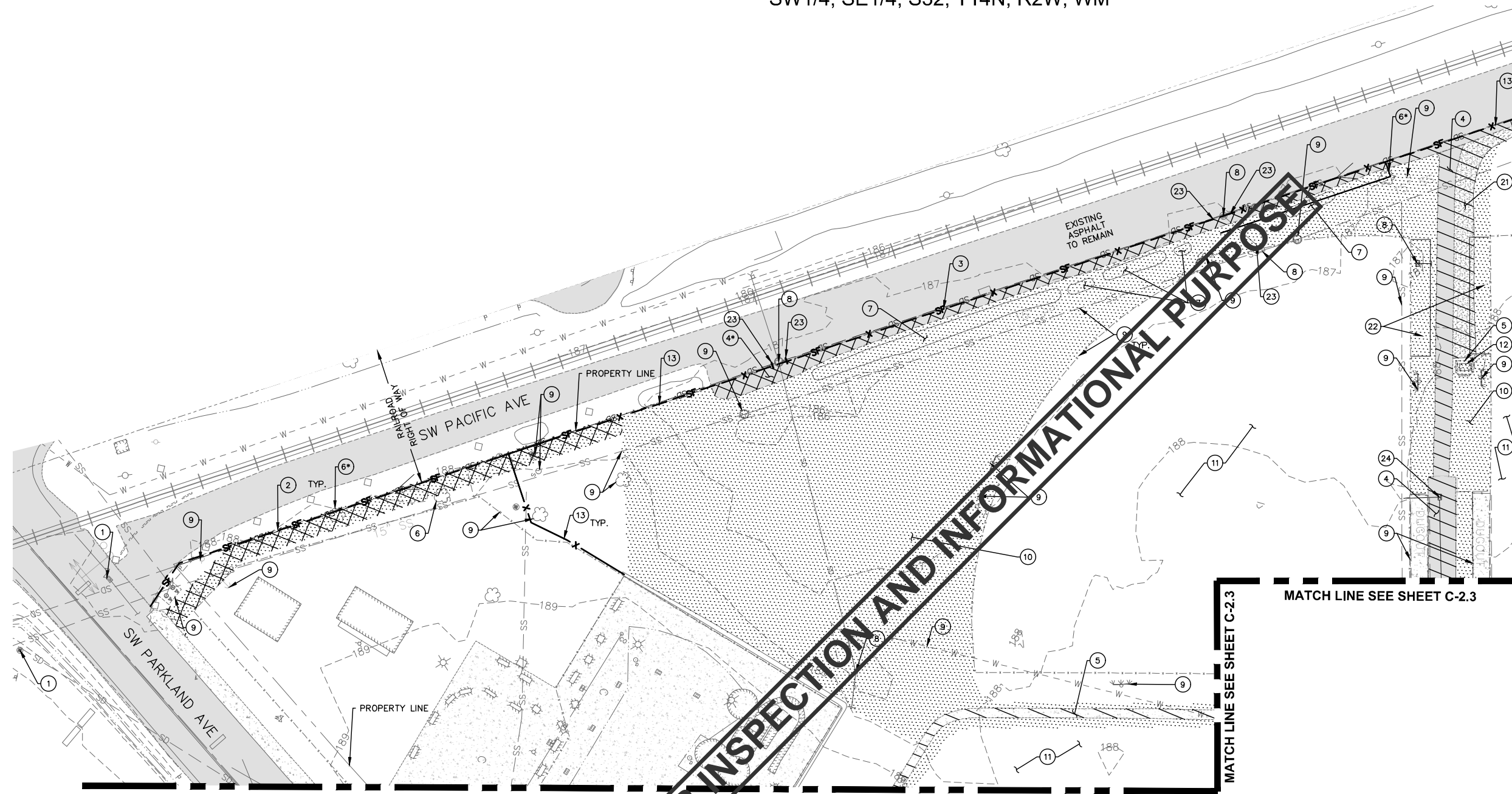


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| Saved By: DHall on 4/9/19 6:50 AM | | | |
| G:\Project\2016\16310 Chehalis Rec Park\CAD\Drawings\Construction\Production\16310_04 DRAINAGE KEY MAP.dwg | | | |

**CHEHALIS RECREATION PARK
IMPROVEMENT PROJECT
DRAINAGE KEY MAP
C-1.3**

| | |
|-------------|-------|
| #JOB NUMBER | 16310 |
| SHEET | 4 |
| OF | 49 |
| SHEETS | |

BID SET



DEMOLITION & EROSION CONTROL PLAN KEY NOTES

1. INSTALL INLET PROTECTION. SEE SHEET C-6.1.
2. INSTALL SILT FENCE PER DETAIL 1/C-6.1.
3. SAWCUT AND PLACE SILT FENCE PER DETAIL 1/C-6.1.
4. RUBBELIZE AND REMOVE EXISTING HMA.
5. RUBBELIZE AND REMOVE EXISTING PCC.
6. REMOVE EXISTING TREE AND ROOTS. LOCATE, PRESERVE AND PROTECT EXISTING ABOVE AND BELOW GRADE FEATURES.
7. REMOVE EXISTING SHRUBS AND ROOTS.
8. REMOVE EXISTING CATCH BASIN.
9. EXISTING TO REMAIN.
10. STRIP AREA AND STOCKPILE ON SITE 4" OF TOPSOIL.
11. SEE DA HOGAN PLANS FOR DEMOLITION AND EROSION CONTROL WITHIN BALL-FIELD AREAS.
12. SALVAGE FOR REINSTALLATION.
13. INSTALL AND MAINTAIN TEMPORARY CHAIN LINK FENCE PER DETAIL 3/C-6.0.
14. SAWCUT EXISTING PCC.
15. REMOVE PT WOOD CURB.
16. NOT USED.
17. TEMPORARY CONTRACTOR LAYDOWN AND STORAGE AREA. IT IS CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THIS AREA AND TO RESTORE AND CLEAN HMA AND STRIPING UPON DEMOBILIZATION.
18. CONSTRUCTION ENTRANCE PER DETAIL 1/C-6.0.
19. SALVAGE EXISTING BLEACHERS FOR REINSTALLATION AND REINSTALL AFTER CONSTRUCTION.
20. SALVAGE FOR REINSTALLATION.
21. REMOVE EXISTING GRAVEL.
22. REMOVE EXISTING BULLPEN. SUPPLY MATERIALS, MEANS, AND METHODS AS NECESSARY TO ENSURE THAT EXISTING DUGOUT IS STRUCTURALLY SOUND AFTER REMOVAL OF BULLPEN.
23. PLUG EXISTING STORM DRAIN PIPE.
24. REMOVE AND SALVAGE CAST IRON GRATE, AND ABANDON EXISTING INLET IN PLACE. FILL WITH CONCRETE.

SEE GENERAL NOTES SHEET FOR GENERAL DEMOLITION AND EROSION CONTROL NOTES

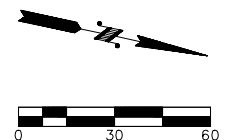
* ADDITIVE ALTERNATE NO. 3 ONLY

DEMOLITION LEGEND

- STRIP AREA AND STOCKPILE 4" OF TOPSOIL
- RUBBELIZE AND REMOVE EXISTING HMA
- RUBBELIZE AND REMOVE EXISTING PCC
- REMOVE EXISTING GRAVEL
- CONSTRUCTION ENTRANCE
- TEMPORARY 6' CL FENCE PER DETAIL 2/C-6.0
- SILT FENCE
- ABANDON EXISTING PIPE
- KEY NOTE

ADDITIVE ALTERNATE NO. 3 DEMOLITION LEGEND

- STRIP AREA AND STOCKPILE 4" OF TOPSOIL
- RUBBELIZE AND REMOVE EXISTING HMA
- REMOVE EXISTING GRAVEL



| DATE | NO. | DATE | REVISIONS |
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CHEHALIS RECREATION PARK IMPROVEMENT PROJECT
DEMOLITION & EROSION CONTROL PLAN
C-2.0

#JOB NUMBER
16310
SHEET
5
OF
49
SHEETS

BID SET



**(X) DEMOLITION & EROSION CONTROL PLAN
KEY NOTES**

1. INSTALL INLET PROTECTION. SEE SHEET C-6.1.
2. INSTALL SILT FENCE PER DETAIL 1/C-6.1.
3. SAWCUT AND PLACE SILT FENCE PER DETAIL 1/C-6.1
4. RUBBELIZE AND REMOVE EXISTING HMA.
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SEE GENERAL NOTES SHEET FOR
GENERAL DEMOLITION AND EROSION CONTROL NOTES

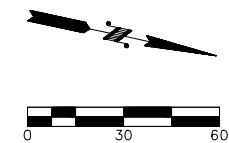
* ADDITIVE ALTERNATE NO. 3 ONLY

DEMOLITION LEGEND

- STRIP AREA AND STOCKPILE 4" OF TOPSOIL
- RUBBELIZE AND REMOVE EXISTING HMA
- RUBBELIZE AND REMOVE EXISTING PCC
- REMOVE EXISTING GRAVEL
- CONSTRUCTION ENTRANCE
- TEMPORARY 6' CL FENCE PER DETAIL 2/C-6.0
- SILT FENCE
- ABANDON EXISTING PIPE
- KEY NOTE

ADDITIVE ALTERNATE NO. 3 DEMOLITION LEGEND

- STRIP AREA AND STOCKPILE 4" OF TOPSOIL
- RUBBELIZE AND REMOVE EXISTING HMA

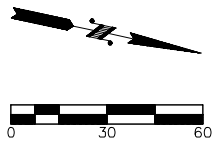
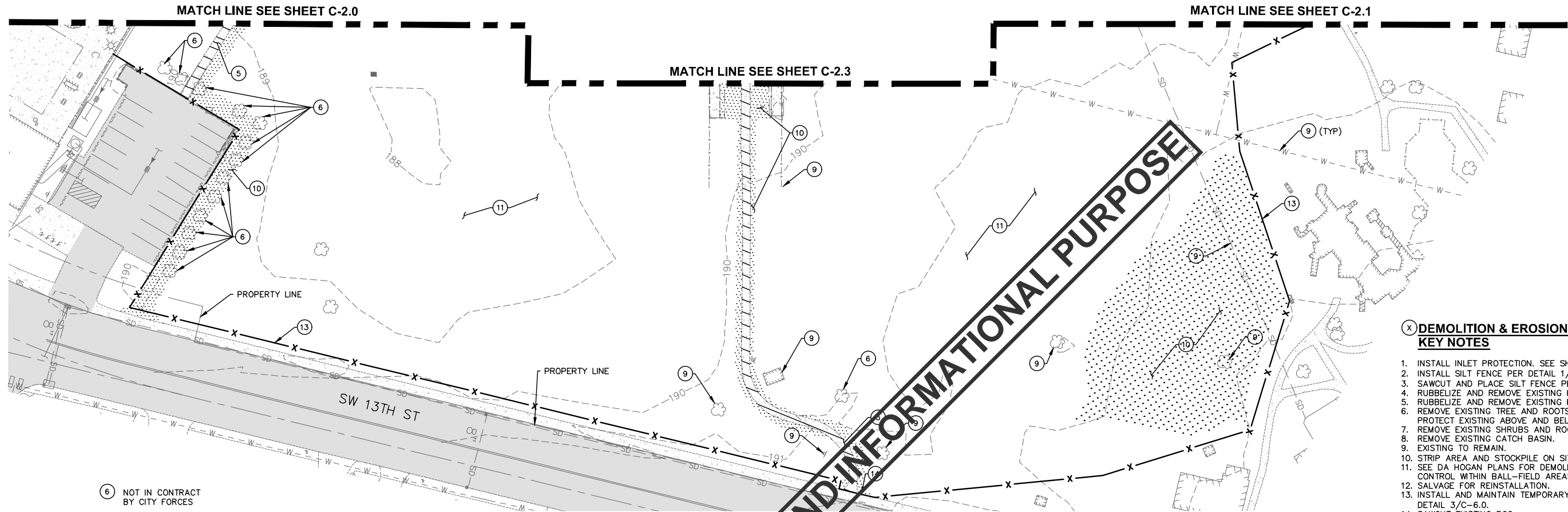


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**CHEHALIS RECREATION PARK
IMPROVEMENT PROJECT
DEMOLITION & EROSION CONTROL PLAN
C-2.1**

#JOB NUMBER
16310
SHEET
6
OF
49
SHEETS

BID SET



6 NOT IN CONTRACT BY CITY FORCES

**(X) DEMOLITION & EROSION CONTROL PLAN
KEY NOTES**

1. INSTALL INLET PROTECTION. SEE SHEET C-6.1.
2. INSTALL SILT FENCE PER DETAIL 1/C-6.1.
3. SAWCUT AND PLACE SILT FENCE PER DETAIL 1/C-6.1
4. RUBBELIZE AND REMOVE EXISTING HMA.
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23. PLUG EXISTING STORM DRAIN PIPE.
24. REMOVE AND SALVAGE CAST IRON GRATE, AND ABANDON EXISTING INLET IN PLACE. FILL WITH CONCRETE.

SEE GENERAL NOTES SHEET FOR GENERAL DEMOLITION AND EROSION CONTROL NOTES

DEMOLITION LEGEND

- STRIP AREA AND STOCKPILE 4" OF TOPSOIL
- RUBBELIZE AND REMOVE EXISTING HMA
- RUBBELIZE AND REMOVE EXISTING PCC
- REMOVE EXISTING GRAVEL
- CONSTRUCTION ENTRANCE
- TEMPORARY 6' CL FENCE PER DETAIL 2/C-6.0
- SILT FENCE
- ABANDON EXISTING PIPE
- KEY NOTE

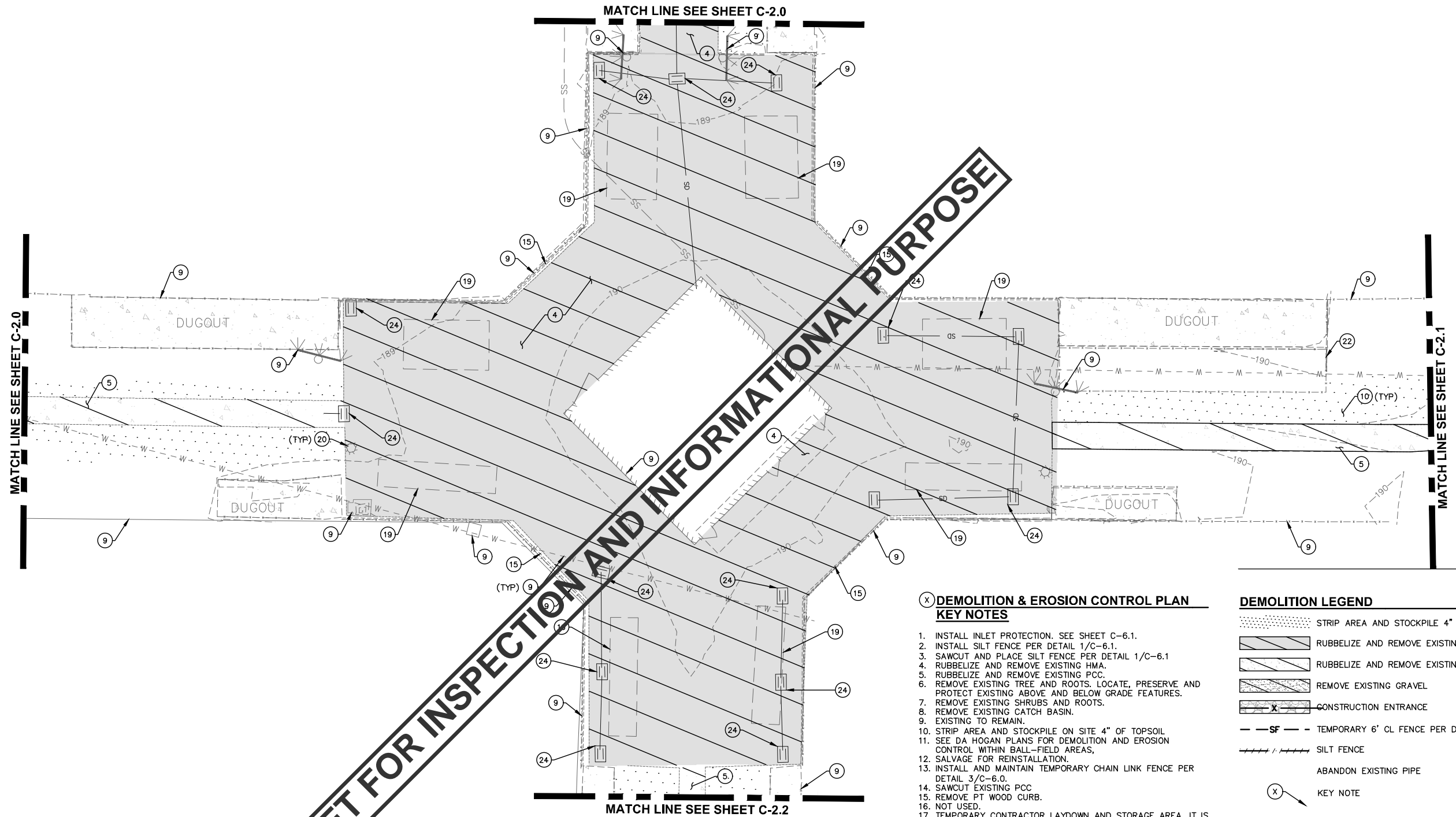
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**CHEHALIS RECREATION PARK
IMPROVEMENT PROJECT
DEMOLITION & EROSION CONTROL PLAN
C-2.2**

JOB NUMBER
16310
SHEET
7
OF
49
SHEETS

BID SET



BID SET FOR INSPECTION AND INFORMATIONAL PURPOSE

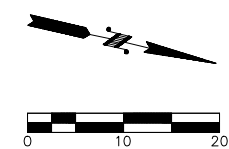
**(X) DEMOLITION & EROSION CONTROL PLAN
KEY NOTES**

1. INSTALL INLET PROTECTION. SEE SHEET C-6.1.
2. INSTALL SILT FENCE PER DETAIL 1/C-6.1.
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DEMOLITION LEGEND

- STRIP AREA AND STOCKPILE 4" OF TOPSOIL
- RUBBELIZE AND REMOVE EXISTING HMA
- RUBBELIZE AND REMOVE EXISTING PCC
- REMOVE EXISTING GRAVEL
- CONSTRUCTION ENTRANCE
- TEMPORARY 6' CL FENCE PER DETAIL 2/C-6.0
- SILT FENCE
- ABANDON EXISTING PIPE
- KEY NOTE

SEE GENERAL NOTES SHEET FOR
GENERAL DEMOLITION AND EROSION CONTROL NOTES

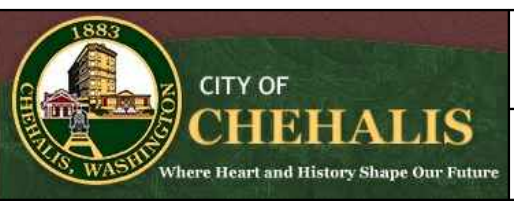


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| CHECKED BY: T. SKILLINGS, PE | 4/1/19 | | | |
| PROJ. ENGR.: C. HAERR, PE | 4/1/19 | | | |
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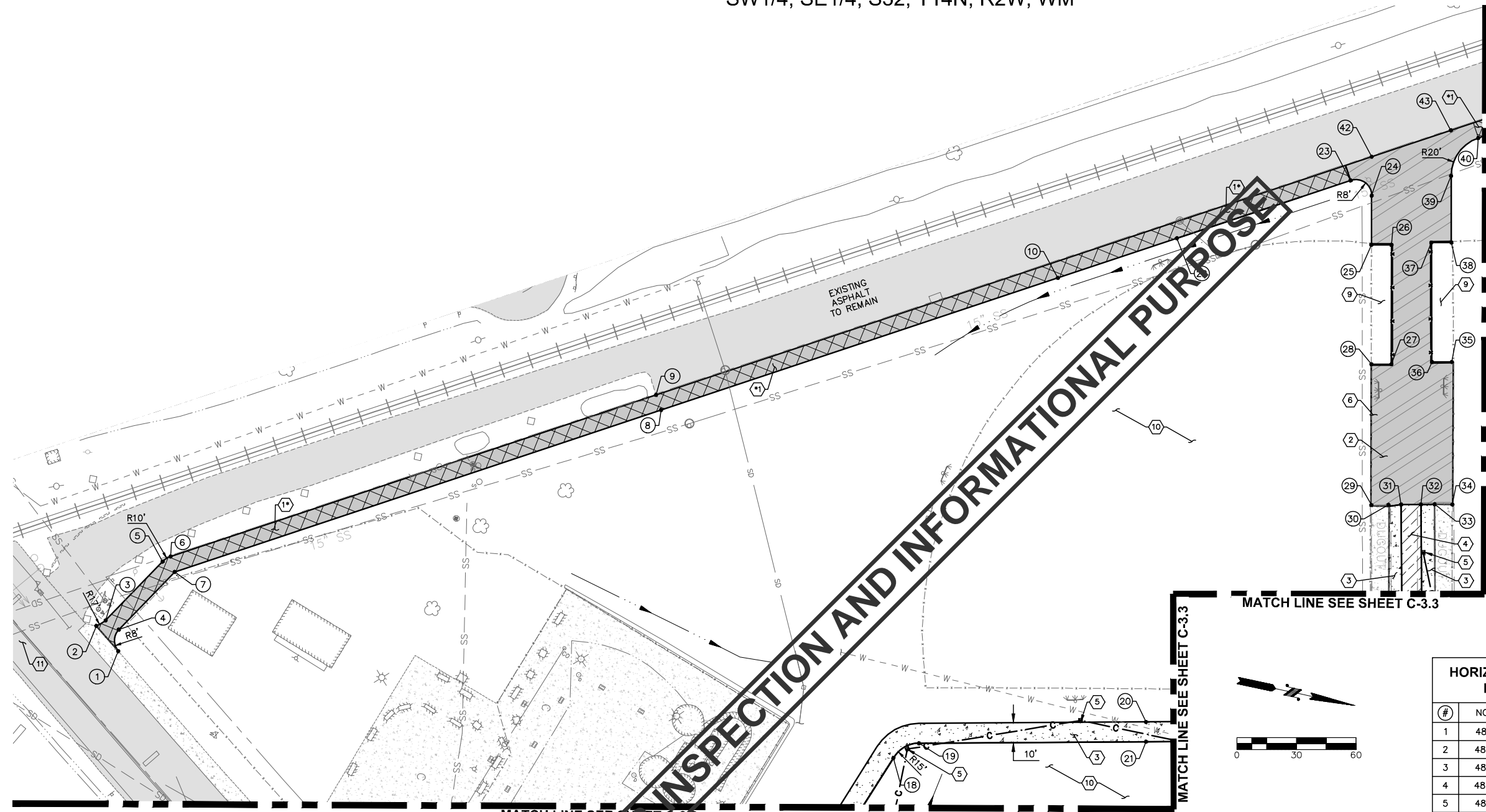
SKILLINGS
CONNOLLY

5016 Lacey Boulevard SE, Lacey, WA 98503
Ph.: (360) 491-3399 www.skillings.com



CHEHALIS RECREATION PARK
IMPROVEMENT PROJECT
DEMOLITION & EROSION CONTROL PLAN
C-2.3

JOB NUMBER
16310
SHEET
8
OF
49
SHEETS



(X) SITE PLAN KEY NOTES

1. INSTALL HMA SIDEWALK PER DETAIL 2/C-6.4,(TYP).
 2. INSTALL HMA DRIVEWAY PER DETAIL 3/C-6.4, (TYP).
 3. INSTALL BROOM FINISH PCC SIDEWALK PER DETAIL 6/C-6.4, (TYP).
 4. INSTALL SWIRL FINISH PCC SIDEWALK PER DETAIL, 7/C-6.4, (TYP).
 5. CONDUIT STUB-UPS.
 6. NOT USED.
 7. PROPOSED PRESSURE TREATED WOOD CURB (TYP).SEE SHT.12
 8. PROPOSED TRENCH DRAIN (TYP). SEE GRADING AND DRAINAGE PLANS.
 9. INSTALL NEW BULLPEN WITH NEW CHAIN LINK FENCE AND GATE.
 10. SEE DA HOGAN PLANS FOR BALL FIELD IMPROVEMENTS.
 11. SEE ROADWAY CROSSING PLAN & PROFILE FOR TREATMENT OF ROADWAY.
- * ADDITIVE ALTERNATE NO. 3 ONLY

SEE EXISTING CONDITIONS PLAN FOR HORIZONTAL AND VERTICAL BENCHMARK

SEE GENERAL NOTES SHEET FOR GENERAL UTILITY NOTES

SITE LEGEND

- HMA SIDEWALK
- HMA DRIVEWAY
- BROOM FINISH CONCRETE SIDEWALK
- HORIZONTAL CONTROL POINT PER TABLE
- SITE KEY NOTE
- CAPPED CONDUIT STUB-UPS
- 1.5" BURIED CONDUIT
- IRRIGATION SLEEVE PER DA HOGAN PLANS

ADDITIVE ALTERNATE NO. 1 SITE LEGEND

- SWIRL FINISH CONCRETE SIDEWALK

ADDITIVE ALTERNATE NO. 3 SITE LEGEND

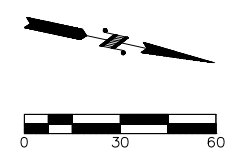
- HMA SIDEWALK

HORIZONTAL CONTROL POINT TABLE

| # | NORTHING | EASTING |
|----|-----------|------------|
| 1 | 489389.61 | 1023706.12 |
| 2 | 489376.14 | 1023696.05 |
| 3 | 489380.16 | 1023692.30 |
| 4 | 489387.62 | 1023695.46 |
| 5 | 489401.99 | 1023657.42 |
| 6 | 489405.40 | 1023654.11 |
| 7 | 489409.03 | 1023661.25 |
| 8 | 489631.17 | 1023530.71 |
| 9 | 489627.12 | 1023523.81 |
| 10 | 489812.40 | 1023424.20 |
| 18 | 489781.85 | 1023677.35 |
| 19 | 489792.87 | 1023667.44 |
| 20 | 489902.23 | 1023633.15 |
| 21 | 489904.32 | 1023642.92 |
| 22 | 489866.74 | 1023392.26 |
| 23 | 489946.11 | 1023345.62 |
| 24 | 489957.99 | 1023350.85 |
| 25 | 489963.07 | 1023375.04 |
| 26 | 489972.91 | 1023372.95 |
| 27 | 489985.38 | 1023431.64 |
| 28 | 489975.60 | 1023433.73 |

HORIZONTAL CONTROL POINT TABLE

| # | NORTHING | EASTING |
|----|-----------|------------|
| 29 | 489990.33 | 1023502.96 |
| 30 | 489998.71 | 1023501.03 |
| 31 | 490004.89 | 1023499.64 |
| 32 | 490014.64 | 1023497.44 |
| 33 | 490021.32 | 1023495.94 |
| 34 | 490030.06 | 1023494.22 |
| 35 | 490014.85 | 1023424.17 |
| 36 | 490005.07 | 1023426.29 |
| 37 | 489992.35 | 1023367.66 |
| 38 | 490002.11 | 1023365.50 |
| 39 | 489995.02 | 1023332.83 |
| 40 | 490004.43 | 1023311.35 |
| 42 | 489953.93 | 1023331.74 |
| 43 | 489990.16 | 1023310.46 |



BID SET FOR INSPECTION AND INFORMATIONAL PURPOSE

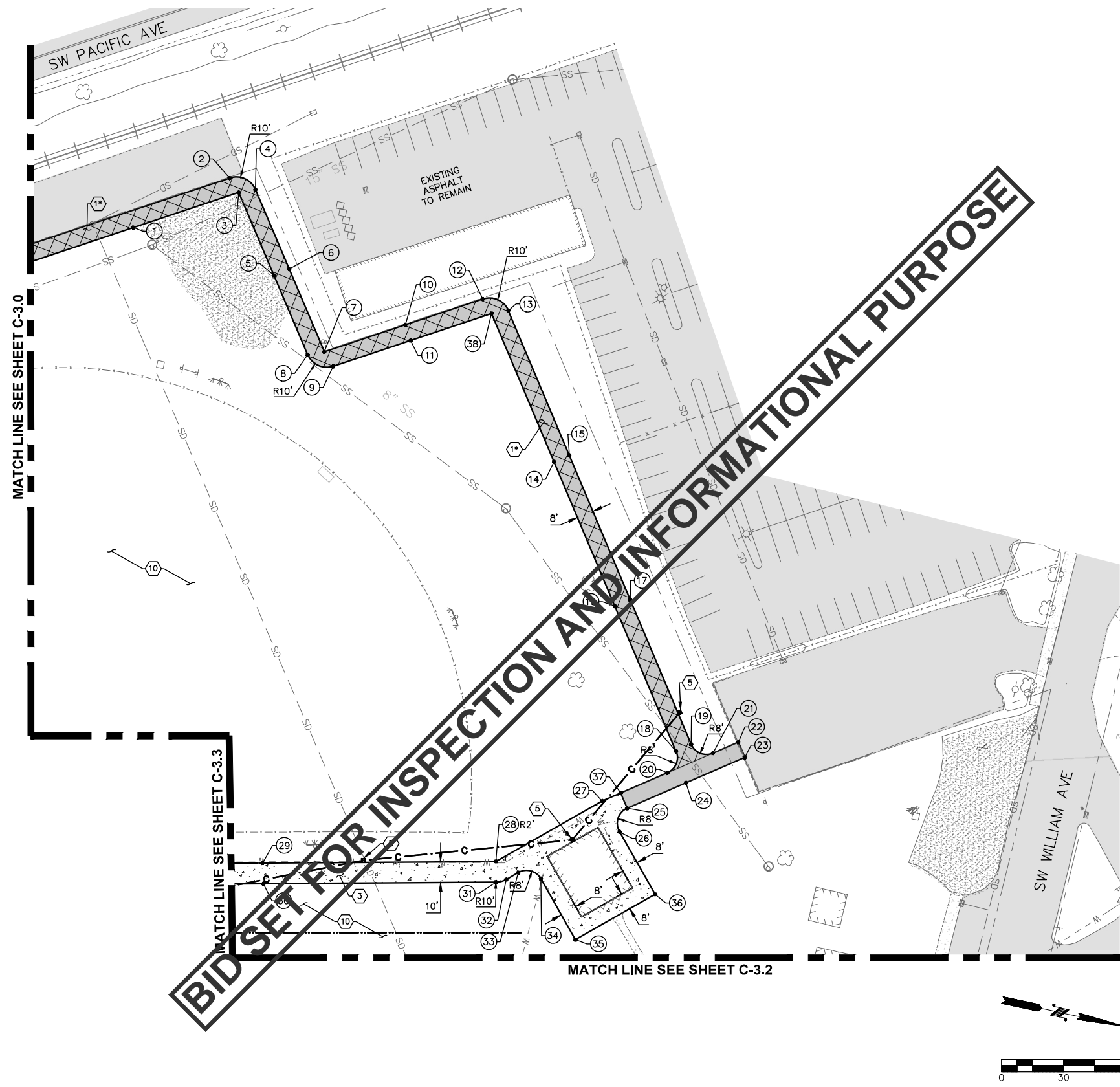
| DATE | NO. | DATE | REVISIONS |
|--|--------|------|-----------|
| ENTERED BY: D. HALL, EIT | 4/1/19 | | |
| CHECKED BY: T. SKILLINGS, PE | 4/1/19 | | |
| PROJ. ENGR.: C. HAERR, PE | 4/1/19 | | |
| Plotted By: Duncan Tellers on 5/20/19 11:46 AM | | | |
| Saved By: DTellers on 5/20/19 11:41 AM | | | |

**CHEHALIS RECREATION PARK
IMPROVEMENT PROJECT
SITE & HORIZONTAL
CONTROL PLAN - C-3.0**

JOB NUMBER
16310
SHEET
9
OF
49
SHEETS

BID SET

SW1/4, SE1/4, S32, T14N, R2W, WM



(X) SITE PLAN KEY NOTES

1. INSTALL HMA SIDEWALK PER DETAIL 2/C-6.4.(TYP).
2. INSTALL HMA DRIVEWAY PER DETAIL 3/C-6.4. (TYP).
3. INSTALL BROOM FINISH PCC SIDEWALK PER DETAIL 6/C-6.4. (TYP).
4. INSTALL SWIRL FINISH PCC SIDEWALK PER DETAIL, 7/C-6.4. (TYP).
5. CONDUIT STUB-UPS.
6. NOT USED.
7. PROPOSED PRESSURE TREATED WOOD CURB (TYP).SEE SHT.12
8. PROPOSED TRENCH DRAIN (TYP). SEE GRADING AND DRAINAGE PLANS.
9. INSTALL NEW BULLPEN WITH NEW CHAIN LINK FENCE AND GATE.
10. SEE DA HOGAN PLANS FOR BALL FIELD IMPROVEMENTS.
11. SEE ROADWAY CROSSING PLAN & PROFILE FOR TREATMENT OF ROADWAY.

* ADDITIVE ALTERNATE NO. 3 ONLY

SEE EXISTING CONDITIONS PLAN FOR HORIZONTAL AND VERTICAL BENCHMARK

SEE GENERAL NOTES SHEET FOR GENERAL UTILITY NOTES

SITE LEGEND

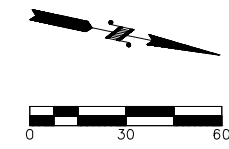
- HMA SIDEWALK
- HMA DRIVEWAY
- BROOM FINISH CONCRETE SIDEWALK
- HORIZONTAL CONTROL POINT PER TABLE
- SITE KEY NOTE
- CAPPED CONDUIT STUB-UPS
- 1.5" BURIED CONDUIT
- IRRIGATION SLEEVE PER DA HOGAN PLANS

ADDITIVE ALTERNATE NO. 3 SITE LEGEND

- HMA SIDEWALK

| HORIZONTAL CONTROL POINT TABLE | | |
|--------------------------------|-----------|------------|
| # | NORTHING | EASTING |
| 1 | 490049.12 | 1023285.08 |
| 2 | 490089.76 | 1023251.92 |
| 3 | 490095.41 | 1023257.88 |
| 4 | 490103.01 | 1023254.80 |
| 5 | 490120.38 | 1023293.48 |
| 6 | 490126.93 | 1023288.89 |
| 7 | 490151.91 | 1023324.49 |
| 8 | 490144.30 | 1023327.58 |
| 9 | 490157.55 | 1023330.46 |
| 10 | 490187.47 | 1023303.60 |
| 11 | 490191.53 | 1023310.50 |
| 12 | 490221.45 | 1023283.64 |
| 13 | 490234.70 | 1023286.52 |
| 14 | 490271.48 | 1023353.25 |
| 15 | 490278.04 | 1023348.67 |
| 16 | 490314.81 | 1023415.41 |
| 17 | 490321.37 | 1023410.83 |
| 18 | 490358.29 | 1023477.77 |
| 19 | 490364.71 | 1023472.99 |

| HORIZONTAL CONTROL POINT TABLE | | |
|--------------------------------|-----------|------------|
| # | NORTHING | EASTING |
| 20 | 490356.37 | 1023488.86 |
| 21 | 490375.91 | 1023474.93 |
| 22 | 490386.79 | 1023467.20 |
| 23 | 490391.40 | 1023473.73 |
| 24 | 490366.21 | 1023491.68 |
| 25 | 490341.02 | 1023509.62 |
| 26 | 490339.75 | 1023521.53 |
| 27 | 490328.42 | 1023508.78 |
| 28 | 490284.27 | 1023547.94 |
| 29 | 490174.30 | 1023572.20 |
| 30 | 490176.70 | 1023581.91 |
| 31 | 490286.45 | 1023557.77 |
| 32 | 490290.95 | 1023555.47 |
| 33 | 490295.98 | 1023551.00 |
| 34 | 490307.28 | 1023551.66 |
| 35 | 490329.72 | 1023576.90 |
| 36 | 490362.82 | 1023547.47 |
| 37 | 490336.39 | 1023503.10 |
| 38 | 490227.10 | 1023289.60 |



| DATE | NO. | DATE | REVISIONS |
|--|--------|------|-----------|
| ENTERED BY: D. HALL, EIT | 4/1/19 | | |
| CHECKED BY: T. SKILLINGS, PE | 4/1/19 | | |
| PROJ. ENGR.: C. HAERR, PE | 4/1/19 | | |
| Plotted By: Duncan Tellers on 5/20/19 11:43 AM | | | |
| Saved By: Mheinsohn on 4/2/19 12:19 PM | | | |

CHEHALIS RECREATION PARK IMPROVEMENT PROJECT
SITE & HORIZONTAL CONTROL PLAN - C-3.1

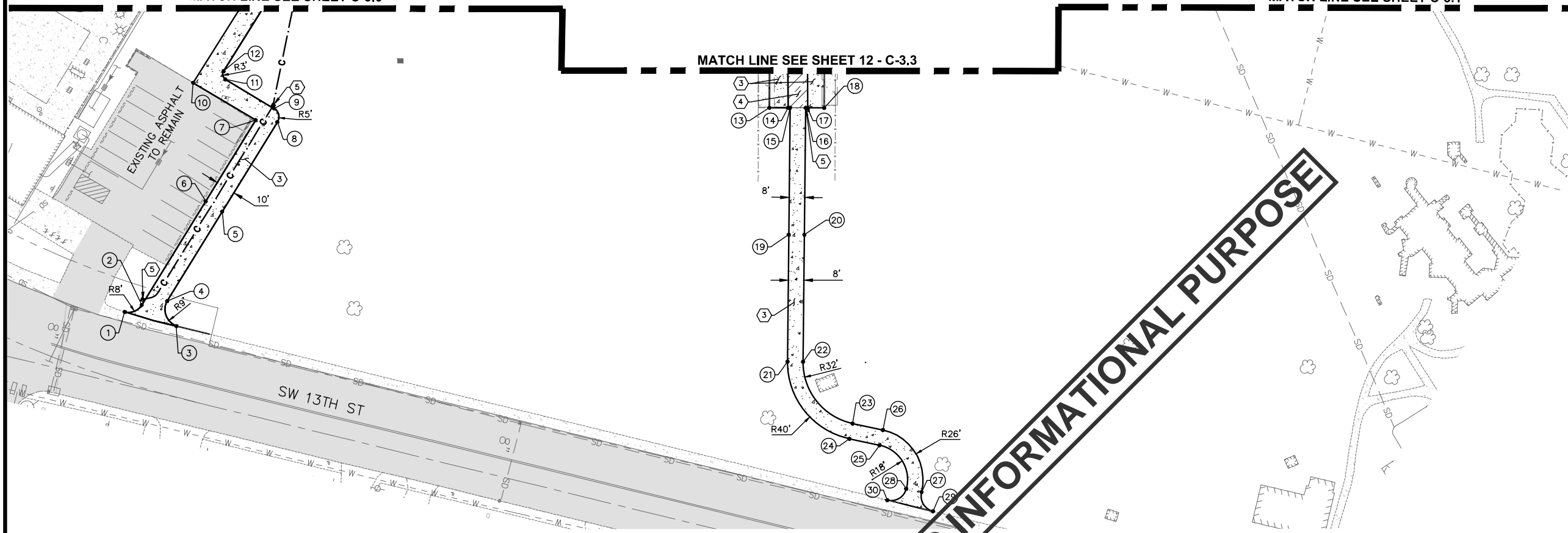
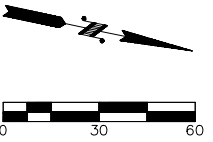
#JOB NUMBER: 16310
 SHEET 10 OF 49 SHEETS

SW1/4, SE1/4, S32, T14N, R2W, WM

MATCH LINE SEE SHEET C-3.0

MATCH LINE SEE SHEET C-3.1

MATCH LINE SEE SHEET 12 - C-3.3



BID SET FOR INSPECTION AND INFORMATIONAL PURPOSE

SITE PLAN KEY NOTES

1. INSTALL HMA SIDEWALK PER DETAIL 2/C-6.4,(TYP).
2. INSTALL HMA DRIVEWAY PER DETAIL 3/C-6.4, (TYP).
3. INSTALL BROOM FINISH PCC SIDEWALK PER DETAIL 6/C-6.4, (TYP).
4. INSTALL SWIRL FINISH PCC SIDEWALK PER DETAIL, 7/C-6.4, (TYP).
5. CONDUIT STUB-UPS.
6. NOT USED.
7. PROPOSED PRESSURE TREATED WOOD CURB (TYP). SEE GRADING AND DRAINAGE PLANS.
8. PROPOSED TRENCH DRAIN (TYP). SEE GRADING AND DRAINAGE PLANS.
9. INSTALL NEW BULLPEN WITH NEW CHAIN LINK FENCE AND GATE.
10. SEE DA HOGAN PLANS FOR BALL FIELD IMPROVEMENTS.
11. SEE ROADWAY CROSSING PLAN & PROFILE FOR TREATMENT OF ROADWAY.

SEE EXISTING CONDITIONS PLAN FOR HORIZONTAL AND VERTICAL BENCHMARK

SEE GENERAL NOTES SHEET FOR GENERAL UTILITY NOTES

SITE LEGEND

- HMA SIDEWALK
- HMA DRIVEWAY
- BROOM FINISH CONCRETE SIDEWALK
- HORIZONTAL CONTROL POINT PER TABLE
- SITE KEY NOTE
- CAPPED CONDUIT STUB-UPS
- 1.5" BURIED CONDUIT
- IRRIGATION SLEEVE PER DA HOGAN PLANS

ADDITIVE ALTERNATE NO. 1 SITE LEGEND

- SWIRL FINISH CONCRETE SIDEWALK

NOTE: SWIRL CONCRETE FINISH IS AN ADD ALTERNATE.

HORIZONTAL CONTROL POINT TABLE

| # | NORTHING | EASTING |
|----|-----------|------------|
| 1 | 489736.38 | 1023868.08 |
| 2 | 489744.16 | 1023862.78 |
| 3 | 489763.70 | 1023869.67 |
| 4 | 489756.42 | 1023858.19 |
| 5 | 489774.47 | 1023807.42 |
| 6 | 489765.06 | 1023804.07 |
| 7 | 489781.46 | 1023758.02 |
| 8 | 489792.51 | 1023756.65 |
| 9 | 489789.43 | 1023750.25 |
| 10 | 489746.16 | 1023745.98 |
| 11 | 489761.94 | 1023740.82 |
| 12 | 489760.10 | 1023736.96 |
| 13 | 490037.38 | 1023696.96 |
| 14 | 490046.75 | 1023695.00 |
| 15 | 490047.73 | 1023694.79 |

HORIZONTAL CONTROL POINT TABLE

| # | NORTHING | EASTING |
|----|-----------|------------|
| 16 | 490055.56 | 1023693.15 |
| 17 | 490056.54 | 1023692.94 |
| 18 | 490064.80 | 1023691.21 |
| 19 | 490060.63 | 1023758.51 |
| 20 | 490068.46 | 1023756.89 |
| 21 | 490073.53 | 1023822.22 |
| 22 | 490081.37 | 1023820.64 |
| 23 | 490112.73 | 1023846.29 |
| 24 | 490112.73 | 1023854.29 |
| 25 | 490128.63 | 1023854.29 |
| 26 | 490128.63 | 1023846.29 |
| 27 | 490154.61 | 1023873.19 |
| 28 | 490146.60 | 1023873.25 |
| 29 | 490162.37 | 1023881.69 |
| 30 | 490138.35 | 1023880.97 |

| DATE | NO. | DATE | REVISIONS |
|---|--------|------|-----------|
| ENTERED BY: D. HALL, EIT | 4/1/19 | | |
| CHECKED BY: T. SKILLINGS, PE | 4/1/19 | | |
| PROJ. ENGR.: C. HAERR, PE | 4/1/19 | | |
| Plotted By: Muraco Heinsohn on 4/2/19 1:56 PM | | | |
| Saved By: Mheinsohn on 4/2/19 12:23 PM | | | |

CHEHALIS RECREATION PARK IMPROVEMENT PROJECT
SITE & HORIZONTAL CONTROL PLAN - C-3.2

JOB NUMBER
16310
SHEET
11
OF
49
SHEETS

BID SET

NOTE: SWIRL CONCRETE FINISH IS AN ADD ALTERNATE.

(X) SITE PLAN KEY NOTES

1. INSTALL HMA SIDEWALK PER DETAIL 2/C-6.4,(TYP).
2. INSTALL HMA DRIVEWAY PER DETAIL 3/C-6.4, (TYP).
3. INSTALL BROOM FINISH PCC SIDEWALK PER DETAIL 6/C-6.4, (TYP).
4. INSTALL SWIRL FINISH PCC SIDEWALK PER DETAIL, 7/C-6.4, (TYP).
5. CONDUIT STUB-UPS.
6. NOT USED.
7. PROPOSED PRESSURE TREATED WOOD CURB (TYP). SEE GRADING AND DRAINAGE PLANS.
8. PROPOSED TRENCH DRAIN (TYP). SEE GRADING AND DRAINAGE PLANS.
9. INSTALL NEW BULLPEN WITH NEW CHAIN LINK FENCE AND GATE.
10. SEE DA HOGAN PLANS FOR BALL FIELD IMPROVEMENTS.
11. SEE ROADWAY CROSSING PLAN & PROFILE FOR TREATMENT OF ROADWAY.

SEE EXISTING CONDITIONS PLAN FOR HORIZONTAL AND VERTICAL BENCHMARK

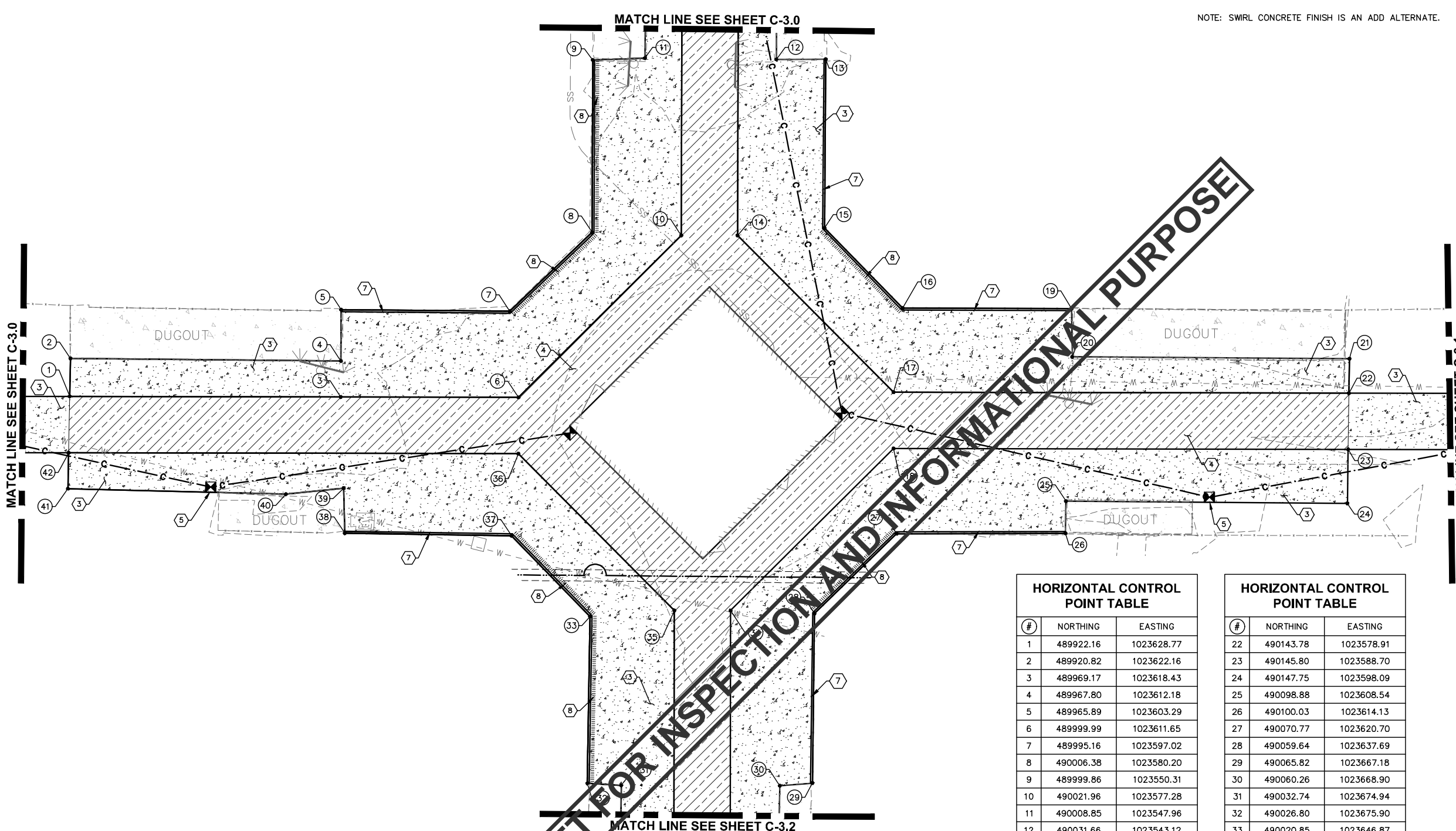
SEE GENERAL NOTES SHEET FOR GENERAL UTILITY NOTES

SITE LEGEND

- HMA SIDEWALK
- HMA DRIVEWAY
- BROOM FINISH CONCRETE SIDEWALK
- HORIZONTAL CONTROL POINT PER TABLE
- SITE KEY NOTE
- CAPPED CONDUIT STUB-UPS
- 1.5" BURIED CONDUIT
- IRRIGATION SLEEVE PER DA HOGAN PLANS

ADDITIVE ALTERNATE NO. 1 SITE LEGEND

- SWIRL FINISH CONCRETE SIDEWALK



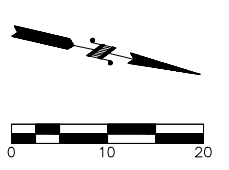
BID SET FOR INSPECTION AND INFORMATIONAL PURPOSE

HORIZONTAL CONTROL POINT TABLE

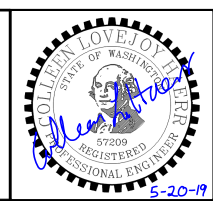
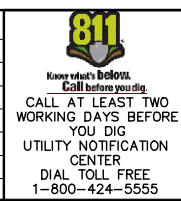
| # | NORTHING | EASTING |
|----|-----------|------------|
| 1 | 489922.16 | 1023628.77 |
| 2 | 489920.82 | 1023622.16 |
| 3 | 489969.17 | 1023618.43 |
| 4 | 489967.80 | 1023612.18 |
| 5 | 489965.89 | 1023603.29 |
| 6 | 489999.99 | 1023611.65 |
| 7 | 489995.16 | 1023597.02 |
| 8 | 490006.38 | 1023580.20 |
| 9 | 489999.86 | 1023550.31 |
| 10 | 490021.96 | 1023577.28 |
| 11 | 490008.85 | 1023547.96 |
| 12 | 490031.66 | 1023543.12 |
| 13 | 490040.23 | 1023541.19 |
| 14 | 490031.73 | 1023575.13 |
| 15 | 490046.51 | 1023570.50 |
| 16 | 490063.14 | 1023581.36 |
| 17 | 490064.81 | 1023596.28 |
| 18 | 490066.95 | 1023606.05 |
| 19 | 490092.43 | 1023574.96 |
| 20 | 490094.42 | 1023583.27 |
| 21 | 490142.53 | 1023572.91 |

HORIZONTAL CONTROL POINT TABLE

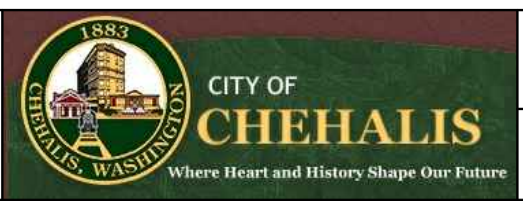
| # | NORTHING | EASTING |
|----|-----------|------------|
| 22 | 490143.78 | 1023578.91 |
| 23 | 490145.80 | 1023588.70 |
| 24 | 490147.75 | 1023598.09 |
| 25 | 490098.88 | 1023608.54 |
| 26 | 490100.03 | 1023614.13 |
| 27 | 490070.77 | 1023620.70 |
| 28 | 490059.64 | 1023637.69 |
| 29 | 490065.82 | 1023667.18 |
| 30 | 490060.26 | 1023668.90 |
| 31 | 490032.74 | 1023674.94 |
| 32 | 490026.80 | 1023675.90 |
| 33 | 490020.85 | 1023646.87 |
| 34 | 490044.98 | 1023640.41 |
| 35 | 490035.22 | 1023642.56 |
| 36 | 490002.14 | 1023621.41 |
| 37 | 490004.13 | 1023635.89 |
| 38 | 489975.12 | 1023641.88 |
| 39 | 489973.20 | 1023634.10 |
| 40 | 489963.41 | 1023637.38 |
| 41 | 489925.42 | 1023644.82 |
| 42 | 489924.15 | 1023638.57 |



| DATE | NO. | DATE | REVISIONS |
|---|--------|------|-----------|
| ENTERED BY: D. HALL, EIT | 4/1/19 | | |
| CHECKED BY: T. SKILLINGS, PE | 4/1/19 | | |
| PROJ. ENGR.: C. HAERR, PE | 4/1/19 | | |
| Plotted By: Muraco Heinsohn on 4/2/19 1:56 PM | | | |
| Saved By: Mheinsohn on 4/2/19 10:35 AM | | | |
| G:\Project\2016\16310 Chehalis Rec Park\CAD\Drawings\Construction\Production\D_16310_12 SITE PLAN 5.dwg | | | |

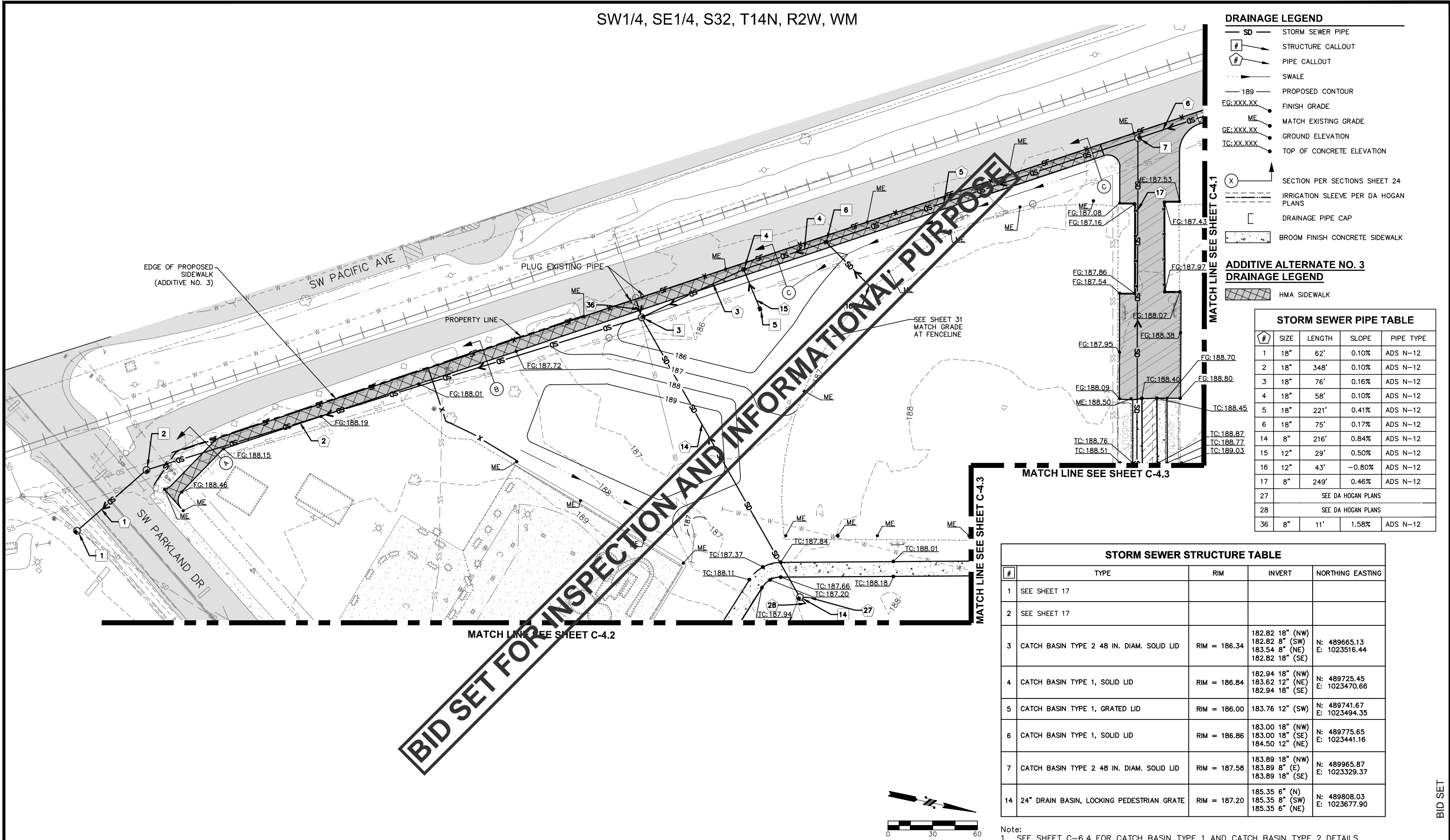


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CHEHALIS RECREATION PARK IMPROVEMENT PROJECT
SITE & HORIZONTAL CONTROL PLAN - C-3.3

| | |
|------------|-------|
| JOB NUMBER | 16310 |
| SHEET | 12 |
| OF | 49 |
| SHEETS | |



DRAINAGE LEGEND

- SD — STORM SEWER PIPE
- # — STRUCTURE CALLOUT
- # — PIPE CALLOUT
- SWALE
- 189 — PROPOSED CONTOUR
- FG:XXX.XX — FINISH GRADE
- ME — MATCH EXISTING GRADE
- GE:XXX.XX — GROUND ELEVATION
- TC:XX.XXX — TOP OF CONCRETE ELEVATION

- (X) — SECTION PER SECTIONS SHEET 24
- IRRIGATION SLEEVE PER DA HOGAN PLANS
- DRAINAGE PIPE CAP
- BROOM FINISH CONCRETE SIDEWALK

ADDITIVE ALTERNATE NO. 3 DRAINAGE LEGEND

- HMA SIDEWALK

STORM SEWER PIPE TABLE

| # | SIZE | LENGTH | SLOPE | PIPE TYPE |
|----|--------------------|--------|--------|-----------|
| 1 | 18" | 62' | 0.10% | ADS N-12 |
| 2 | 18" | 348' | 0.10% | ADS N-12 |
| 3 | 18" | 76' | 0.16% | ADS N-12 |
| 4 | 18" | 58' | 0.10% | ADS N-12 |
| 5 | 18" | 221' | 0.41% | ADS N-12 |
| 6 | 18" | 75' | 0.17% | ADS N-12 |
| 14 | 8" | 216' | 0.84% | ADS N-12 |
| 15 | 12" | 29' | 0.50% | ADS N-12 |
| 16 | 12" | 43' | -0.80% | ADS N-12 |
| 17 | 8" | 249' | 0.46% | ADS N-12 |
| 27 | SEE DA HOGAN PLANS | | | |
| 28 | SEE DA HOGAN PLANS | | | |
| 36 | 8" | 11' | 1.58% | ADS N-12 |

STORM SEWER STRUCTURE TABLE

| # | TYPE | RIM | INVERT | NORTHING EASTING |
|----|---|--------------|--|-------------------------------|
| 1 | SEE SHEET 17 | | | |
| 2 | SEE SHEET 17 | | | |
| 3 | CATCH BASIN TYPE 2 48 IN. DIAM. SOLID LID | RIM = 186.34 | 182.82 18" (NW) 182.82 8" (SW) 183.54 8" (NE) 182.82 18" (SE) | N: 489665.13 E: 1023516.44 |
| 4 | CATCH BASIN TYPE 1, SOLID LID | RIM = 186.84 | 182.94 18" (NW) 183.62 12" (NE) 182.94 18" (SE) | N: 489725.45 E: 1023470.66 |
| 5 | CATCH BASIN TYPE 1, GRATED LID | RIM = 186.00 | 183.76 12" (SW) | N: 489741.67 E: 1023494.35 |
| 6 | CATCH BASIN TYPE 1, SOLID LID | RIM = 186.86 | 183.00 18" (NW) 183.00 18" (SE) 184.50 12" (NE) | N: 489775.65 E: 1023441.16 |
| 7 | CATCH BASIN TYPE 2 48 IN. DIAM. SOLID LID | RIM = 187.58 | 183.89 18" (NW) 183.89 8" (E) 183.89 18" (SE) | N: 489965.87 E: 1023329.37 |
| 14 | 24" DRAIN BASIN, LOCKING PEDESTRIAN GRATE | RIM = 187.20 | 185.35 6" (N) 185.35 8" (SW) 185.35 6" (NE) | N: 489808.03 E: 1023677.90 |

Note:
1. SEE SHEET C-6.4 FOR CATCH BASIN TYPE 1 AND CATCH BASIN TYPE 2 DETAILS.

| DATE | NO. | DATE | REVISIONS |
|---|-----|------|------------------------------|
| 4/1/19 | | | ENTERED BY: D. HALL, EIT |
| 4/1/19 | | | CHECKED BY: T. SKILLINGS, PE |
| 4/1/19 | | | PROJ. ENGR.: C. HAERR, PE |
| Plotted By: David H. Rowland on 4/9/19 8:52 AM | | | |
| Saved By: Drowland on 4/8/19 10:06 AM | | | |
| G:\Project\2016\16310 Chehalis Rec Park\CAD\Drawings\Construction\Production\16310_13 GRADING AND DRAINAGE PLAN 1.dwg | | | |

811
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Where Heart and History Shape Our Future

CHEHALIS RECREATION PARK IMPROVEMENT PROJECT
GRADING & DRAINAGE PLAN
C-4.0

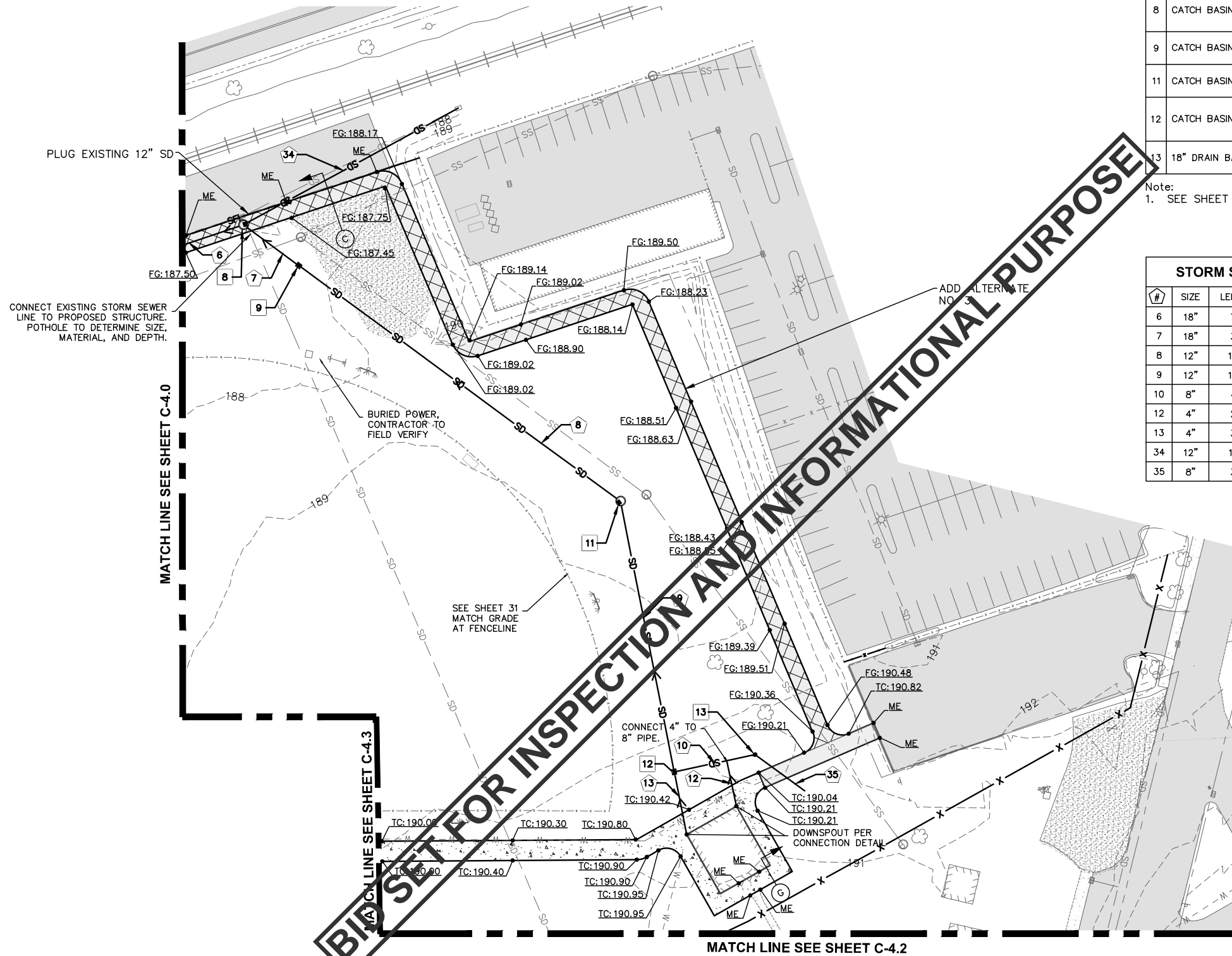
#JOB NUMBER: 16310
SHEET 13 OF 49 SHEETS

| STORM SEWER STRUCTURE TABLE | | | | |
|-----------------------------|--|--------------|---|-------------------------------|
| # | TYPE | RIM | INVERT | NORTHING EASTING |
| 8 | CATCH BASIN TYPE 2 48 IN. DIAM. SOLID LID | RIM = 187.53 | 184.02 18" (NE) 184.02 12" (NW) 184.02 18" (SE) | N: 490030.74 E: 1023291.24 |
| 9 | CATCH BASIN TYPE 1, SOLID LID | RIM = 187.56 | 184.20 12" (NE) 184.20 18" (SW) | N: 490061.75 E: 1023305.19 |
| 11 | CATCH BASIN TYPE 2 48 IN. DIAM. GRATED LID | RIM = 188.82 | 185.20 12" (NE) 185.20 12" (SW) | N: 490241.56 E: 1023386.07 |
| 12 | CATCH BASIN TYPE 1, SOLID LID | RIM = 190.05 | 187.92 4" (NE) 187.92 8" (NW) 187.92 12" (SW) | N: 490295.48 E: 1023511.41 |
| 13 | 18" DRAIN BASIN, LOCKING PEDESTRIAN GRATE | RIM = 189.73 | 188.33 8" (NE) 188.33 8" (SE) | N: 490332.71 E: 1023494.73 |

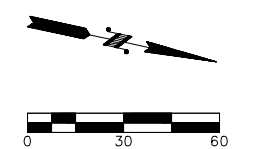
Note:
1. SEE SHEET C-6.4 FOR CATCH BASIN TYPE 1 AND CATCH BASIN TYPE 2 DETAILS.

| STORM SEWER PIPE TABLE | | | | |
|------------------------|------|--------|-------|-----------|
| # | SIZE | LENGTH | SLOPE | PIPE TYPE |
| 6 | 18" | 75' | 0.17% | ADS N-12 |
| 7 | 18" | 34' | 0.53% | ADS N-12 |
| 8 | 12" | 197' | 0.51% | ADS N-12 |
| 9 | 12" | 136' | 2.00% | ADS N-12 |
| 10 | 8" | 41' | 1.01% | ADS N-12 |
| 12 | 4" | 23' | 1.00% | ADS N-12 |
| 13 | 4" | 32' | 1.00% | ADS N-12 |
| 34 | 12" | 121' | 0.49% | ADS N-12 |
| 35 | 8" | 30' | 1.00% | ADS N-12 |

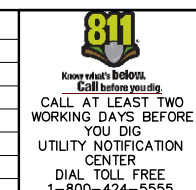
- DRAINAGE LEGEND**
- SD — STORM SEWER PIPE
 - # — STRUCTURE CALLOUT
 - # — PIPE CALLOUT
 - SWALE
 - 189 — PROPOSED CONTOUR
 - FG:XXX.XX — FINISH GRADE
 - ME — MATCH EXISTING GRADE
 - GE:XXX.XX — GROUND ELEVATION
 - TC:XX.XXX — TOP OF CONCRETE ELEVATION
 - (X) — SECTION PER SECTIONS SHEET 24
 - IRRIGATION SLEEVE PER DA HOGAN PLANS
 - [] — DRAINAGE PIPE CAP
 - [] — BROOM FINISH CONCRETE SIDEWALK
- ADDITIVE ALTERNATE NO. 3 DRAINAGE LEGEND**
- [] — HMA SIDEWALK



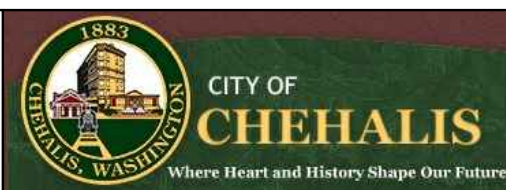
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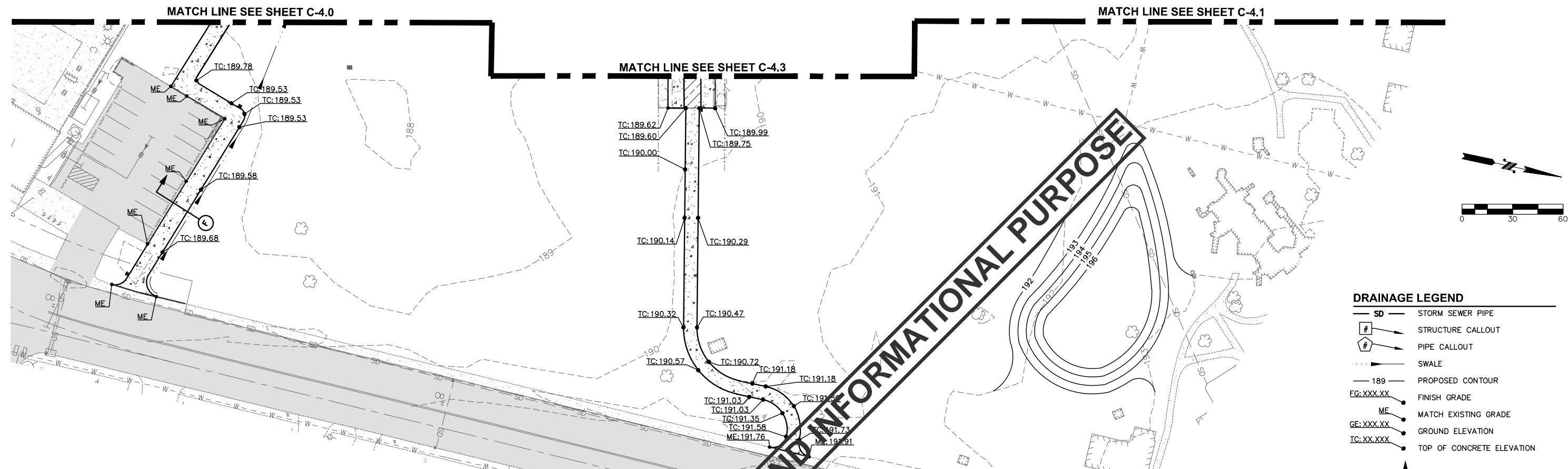


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CHEHALIS RECREATION PARK IMPROVEMENT PROJECT
GRADING & DRAINAGE PLAN
C-4.1

#JOB NUMBER
16310
SHEET
14
OF
49
SHEETS



- DRAINAGE LEGEND**
- STORM SEWER PIPE
 - STRUCTURE CALLOUT
 - PIPE CALLOUT
 - SWALE
 - PROPOSED CONTOUR
 - FINISH GRADE
 - MATCH EXISTING GRADE
 - GROUND ELEVATION
 - TOP OF CONCRETE ELEVATION
 - SECTION PER SECTIONS SHEET 24
 - IRRIGATION SLEEVE PER DA HOGAN PLANS
 - DRAINAGE PIPE CAP
 - BROOM FINISH CONCRETE SIDEWALK
- ADDITIVE ALTERNATE NO. 1 DRAINAGE LEGEND**
- SWIRL FINISH CONCRETE SIDEWALK

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**CHEHALIS RECREATION PARK
IMPROVEMENT PROJECT
GRADING & DRAINAGE PLAN
C-4.2**

| | |
|------------|-------|
| NO. NUMBER | 16310 |
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| OF | 49 |
| SHEETS | |

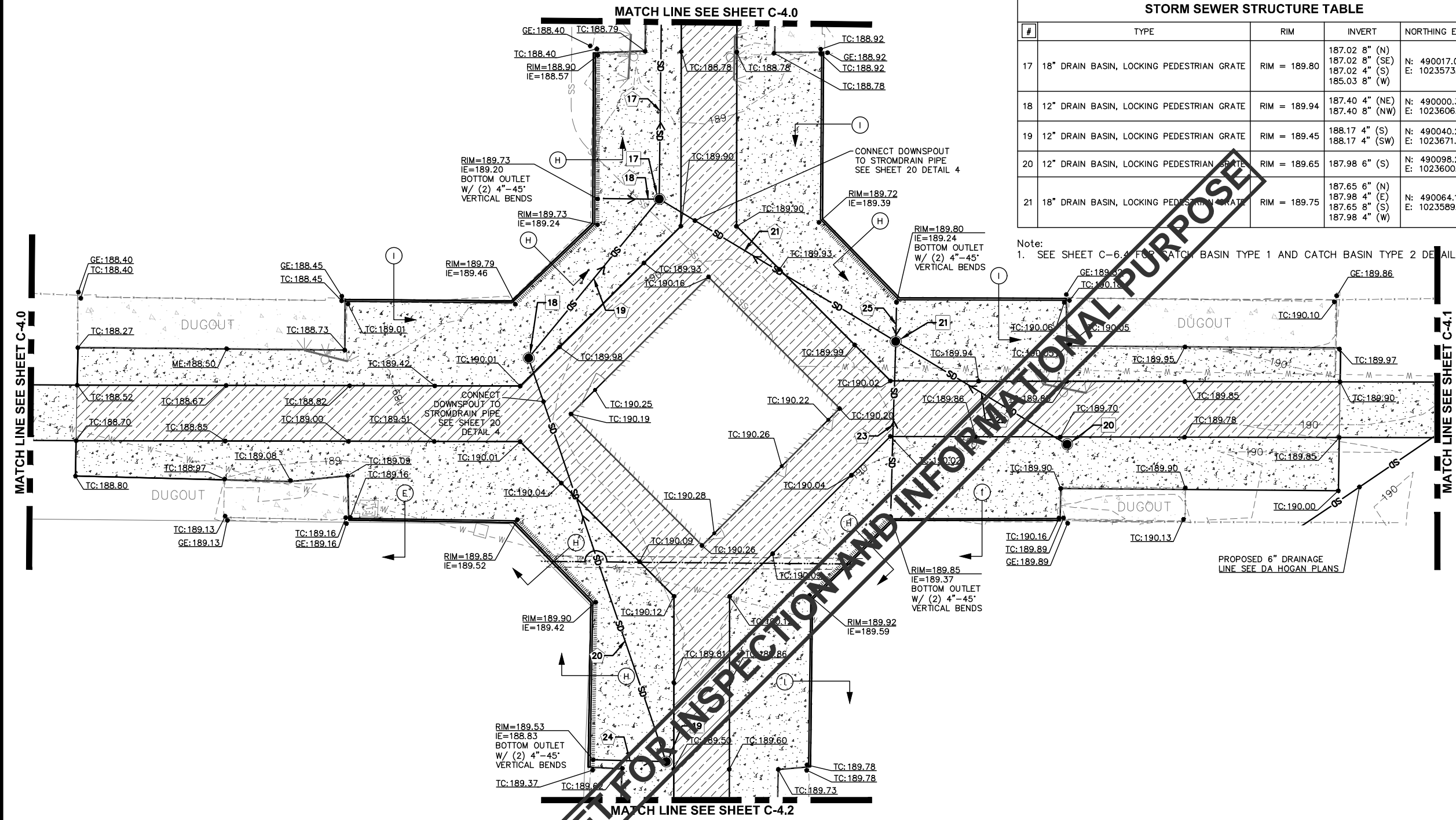
BID SET

| STORM SEWER STRUCTURE TABLE | | | |
|-----------------------------|---|--------------|---|
| # | TYPE | RIM | INVERT |
| 17 | 18" DRAIN BASIN, LOCKING PEDESTRIAN GRATE | RIM = 189.80 | 187.02 8" (N) 187.02 8" (SE) 187.02 4" (S) 185.03 8" (W) |
| 18 | 12" DRAIN BASIN, LOCKING PEDESTRIAN GRATE | RIM = 189.94 | 187.40 4" (NE) 187.40 8" (NW) |
| 19 | 12" DRAIN BASIN, LOCKING PEDESTRIAN GRATE | RIM = 189.45 | 188.17 4" (S) 188.17 4" (SW) |
| 20 | 12" DRAIN BASIN, LOCKING PEDESTRIAN GRATE | RIM = 189.65 | 187.98 6" (S) |
| 21 | 18" DRAIN BASIN, LOCKING PEDESTRIAN GRATE | RIM = 189.75 | 187.65 6" (N) 187.98 4" (E) 187.65 8" (S) 187.98 4" (W) |

| STORM SEWER PIPE TABLE | | | | |
|------------------------|------|--------|-------|-----------|
| # | SIZE | LENGTH | SLOPE | PIPE TYPE |
| 17 | 8" | 249' | 0.46% | ADS N-12 |
| 18 | 4" | 10' | * | ADS N-12 |
| 19 | 8" | 37' | 1.03% | ADS N-12 |
| 20 | 4" | 77' | 1.00% | ADS N-12 |
| 21 | 8" | 50' | 1.27% | ADS N-12 |
| 22 | 6" | 36' | 0.92% | ADS N-12 |
| 23 | 4" | 30' | * | ADS N-12 |
| 24 | 4" | 13' | * | ADS N-12 |
| 25 | 4" | 6' | * | ADS N-12 |

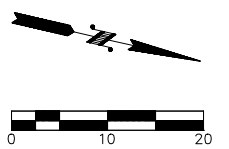
*SEE DETAIL 3/C-6.2 FOR GRADE

Note:
1. SEE SHEET C-6.4 FOR CATCH BASIN TYPE 1 AND CATCH BASIN TYPE 2 DETAILS.



- DRAINAGE LEGEND**
- SD — STORM SEWER PIPE
 - # — STRUCTURE CALLOUT
 - # — PIPE CALLOUT
 - SWALE
 - 189 — PROPOSED CONTOUR
 - EG: XXX.XX — FINISH GRADE
 - ME — MATCH EXISTING GRADE
 - GE: XXX.XX — GROUND ELEVATION
 - TC: XX.XXX — TOP OF CONCRETE ELEVATION
 - (X) — SECTION PER SECTIONS SHEET 24
 - IRRIGATION SLEEVE PER DA HOGAN PLANS
 - [] — DRAINAGE PIPE CAP
 - [] — BROOM FINISH CONCRETE SIDEWALK

- ADDITIVE ALTERNATE NO. 1 DRAINAGE LEGEND**
- [] — SWIRL FINISH CONCRETE SIDEWALK

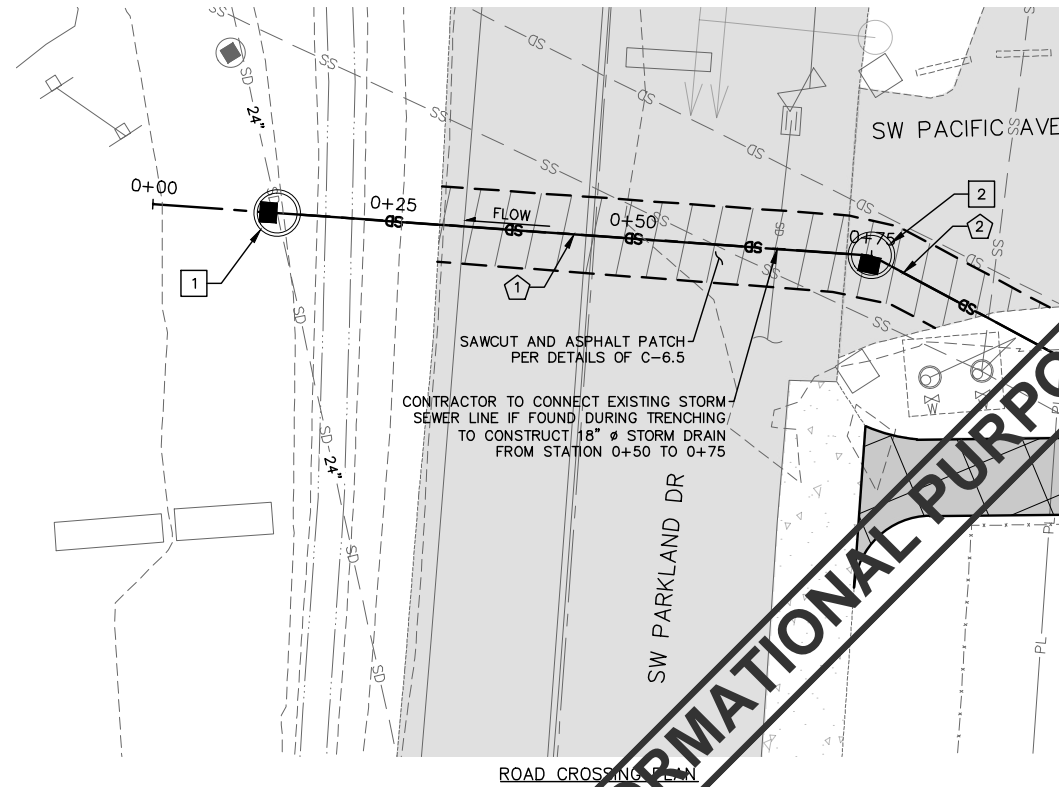


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CHEHALIS RECREATION PARK IMPROVEMENT PROJECT
GRADING & DRAINAGE PLAN
C-4.3

JOB NUMBER: 16310
 SHEET 16 OF 49 SHEETS

SW1/4, SE1/4, S32, T14N, R2W, WM

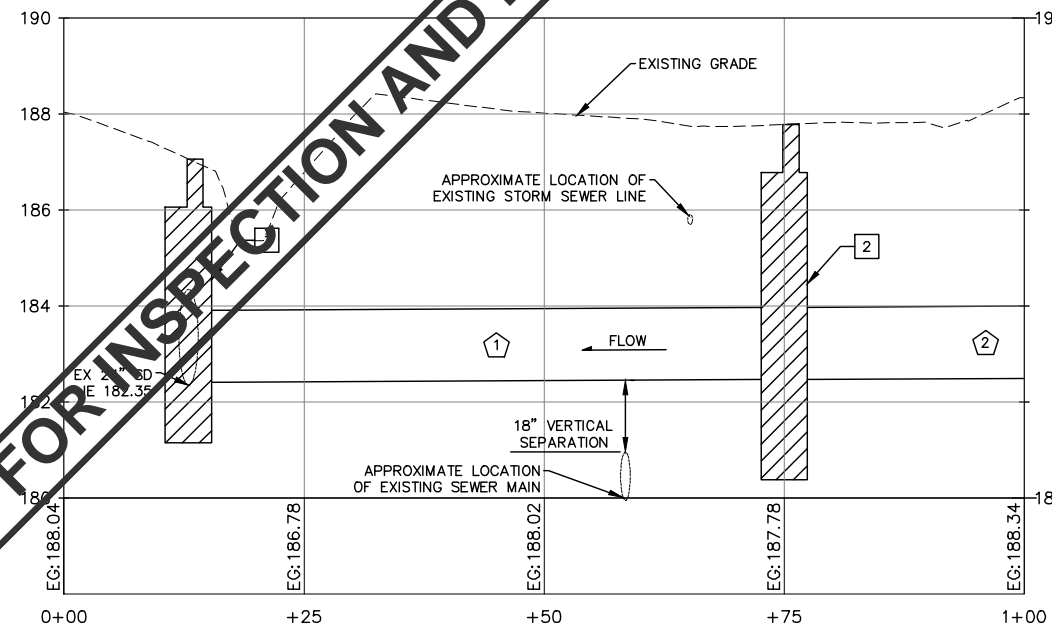


| STORM SEWER STRUCTURE TABLE | | | | |
|-----------------------------|---|--------------|------------------------------------|-------------------------------|
| # | TYPE | RIM | INVERT | NORTHING EASTING |
| 1 | CATCH BASIN TYPE 2 48 IN. DIAM. SOLID LID | RIM = 187.06 | 182.41 18" (NW) | N: 489324.33 E: 1023735.61 |
| 2 | CATCH BASIN TYPE 2 48 IN. DIAM. SOLID LID | RIM = 187.78 | 182.47 18" (NW) 182.47 18" (SE) | N: 489361.49 E: 1023685.93 |

Note:
1. SEE SHEET C-6.4 FOR CATCH BASIN TYPE 1 AND CATCH BASIN TYPE 2 DETAILS.

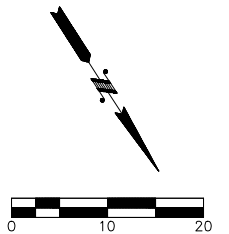
| STORM SEWER PIPE TABLE | | | | |
|------------------------|------|--------|-------|-----------|
| # | SIZE | LENGTH | SLOPE | PIPE TYPE |
| 1 | 18" | 62' | 0.10% | ADS N-12 |
| 2 | 18" | 348' | 0.10% | ADS N-12 |

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ROAD CROSSING PROFILE

SCALE (FULL SIZE 22x34)
HORIZONTAL 1"=10'
VERTICAL 1"=2'



| | DATE | | REVISIONS |
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**CHEHALIS RECREATION PARK
IMPROVEMENT PROJECT**

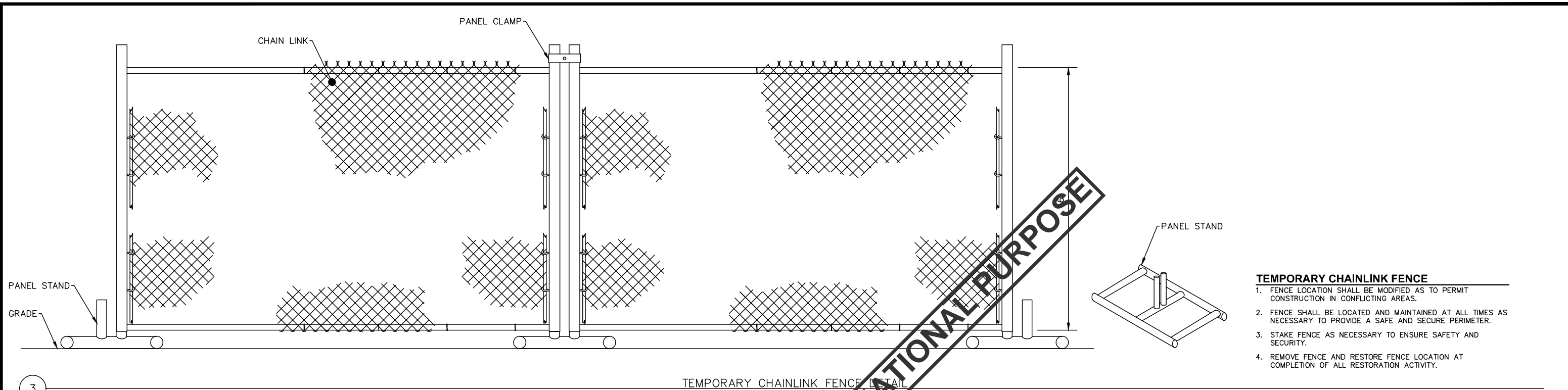
ROADWAY CROSSING PLAN & PROFILE

C-5.0

JOB NUMBER
16310

SHEET
17
OF
49
SHEETS

BID SET

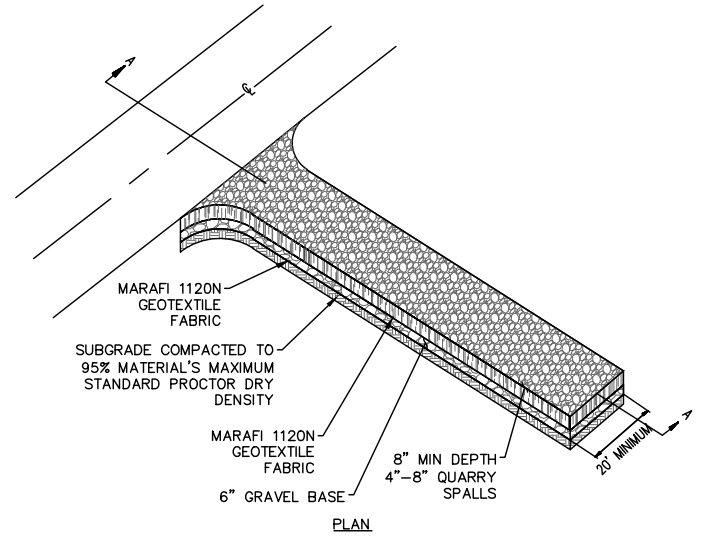


- TEMPORARY CHAINLINK FENCE**
1. FENCE LOCATION SHALL BE MODIFIED AS TO PERMIT CONSTRUCTION IN CONFLICTING AREAS.
 2. FENCE SHALL BE LOCATED AND MAINTAINED AT ALL TIMES AS NECESSARY TO PROVIDE A SAFE AND SECURE PERIMETER.
 3. STAKE FENCE AS NECESSARY TO ENSURE SAFETY AND SECURITY.
 4. REMOVE FENCE AND RESTORE FENCE LOCATION AT COMPLETION OF ALL RESTORATION ACTIVITY.

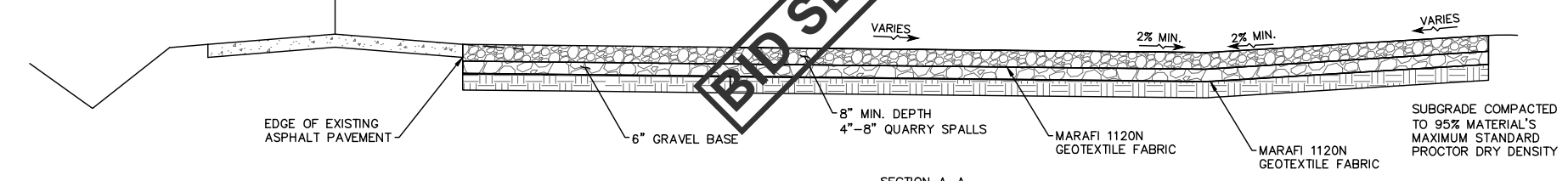
TEMPORARY CHAINLINK FENCE DETAIL
N.T.S.

STABILIZED CONSTRUCTION ENTRANCE/EXIT NOTES

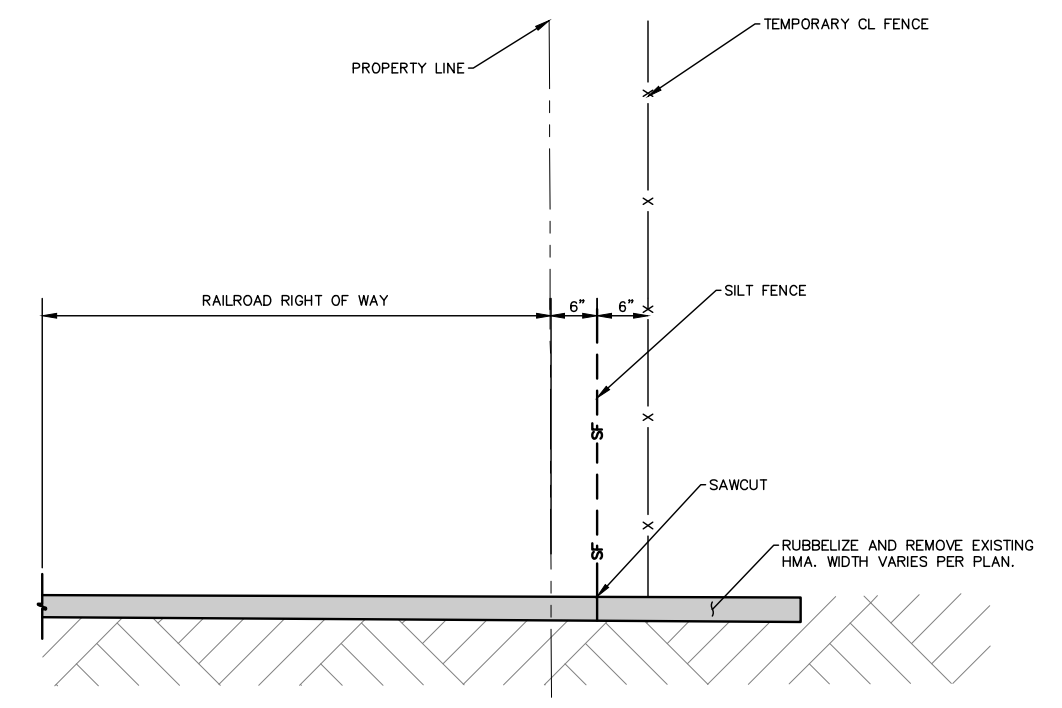
1. THE ROCK PAD SHALL BE AT LEAST 12 INCHES THICK. LENGTH SHALL BE SUCH THAT NO SEDIMENT IS TRACKED OFF SITE. WIDTH SHALL BE AT LEAST 15 FEET AND BE THE FULL WIDTH OF THE VEHICLE INGRESS AND EGRESS AREA. SMALLER PADS MAY BE APPROVED IF THE REQUIRED SIZE IS IMPRACTICAL.
2. MATERIAL SHALL BE 4" TO 8" QUARRY SPALLS, A 4-INCH COURSE OF ASPHALT TREATED BASE (ATB), OR USE EXISTING PAVEMENT. DO NOT USE BROKEN/CRUSHED PORTLAND CEMENT, CEMENT, OR CALCIUM CHLORIDE.
3. A SEPARATION GEOTEXTILE SHALL BE PLACED UNDER THE SPALLS TO PREVENT FINE SEDIMENT FROM PUMPING UP INTO THE ROCK PAD. THE GEOTEXTILE SHALL MEET THE FOLLOWING STANDARDS:
 - GRAB TENSILE STRENGTH (ASTM D4751): 200 PSI MINIMUM
 - GRAB TENSILE ELONGATION (ASTM D4632): 30 PERCENT MAXIMUM
 - MULLEN BURST STRENGTH (ASTM D3783): 400 PSI MINIMUM
4. APPARENT OPEN SIZE (ASTM D4751) SHALL BE NO LARGER THAN NO. 10 (U.S. STANDARD SIEVE SIZE)
5. FOR SINGLE-FAMILY RESIDENTIAL LOTS PAD MAY BE REDUCED IN LENGTH TO FIT SITE, TO NO LESS THAN 20 FEET LONG, AND IN DEPTH TO 6 INCHES THICK WITH 4-INCH TO 6-INCH QUARRY SPALLS.
6. ADDITIONAL QUARRY SPALLS SHALL BE ADDED PERIODICALLY TO MAINTAIN PROPER FUNCTION OF THE PAD.
7. IF THE ENTRANCE IS NOT PREVENTING SEDIMENT FROM BEING TRACKED ONTO PAVEMENT, THEN ALTERNATIVE MEASURES TO KEEP THE STREETS FREE OF SEDIMENT SHALL BE USED.
8. THIS MAY INCLUDE REPLACEMENT/CLEANING OF THE EXISTING QUARRY SPALLS, AN INCREASE IN THE DIMENSIONS OF THE ENTRANCE, OR THE INSTALLATION OF A WHEEL WASH.



- NOTES:
1. CONTRACTOR TO LOCATE TEMPORARY CONSTRUCTION FENCING, JERSEY BARRIERS, OR BOTH ALONG THE SIDES OF THE CONSTRUCTION EXIT TO PREVENT CONSTRUCTION TRAFFIC FROM SHORT CIRCUITING/BYPASSING THE EXIT.



SECTION A-A
CONSTRUCTION ENTRANCE/EXIT DETAIL
N.T.S.



- SAWCUT**
1. APPLY TACK COAT TO FACE OF SAWCUT PRIOR TO PLACEMENT OF PROPOSED HMA SIDEWALK.

SAWCUT DETAIL
N.T.S.

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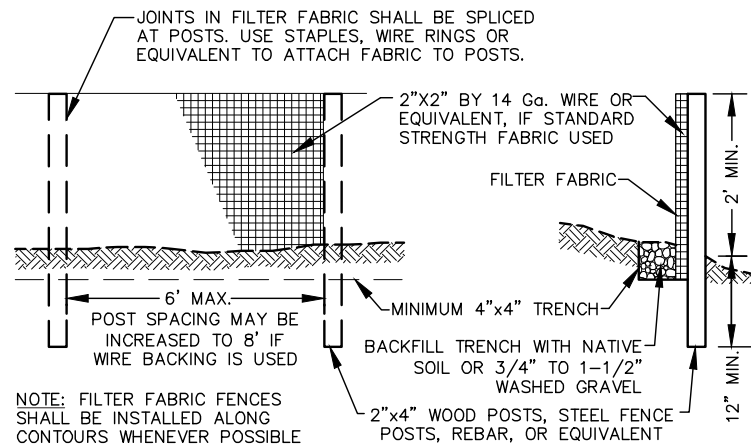
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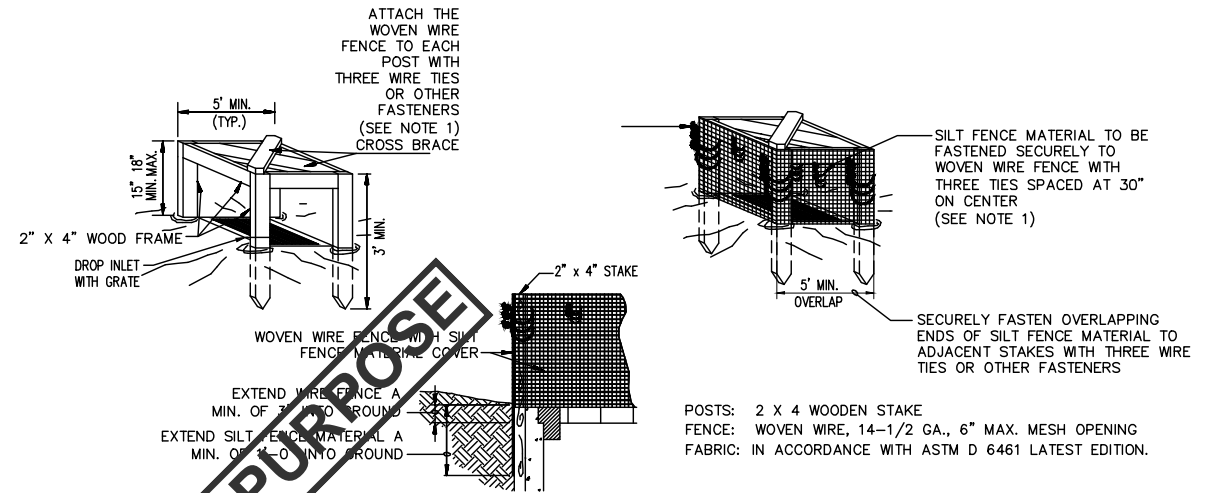
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CHEHALIS RECREATION PARK IMPROVEMENT PROJECT
DETAILS C-6.0
JOB NUMBER 16310
SHEET 18 OF 49 SHEETS

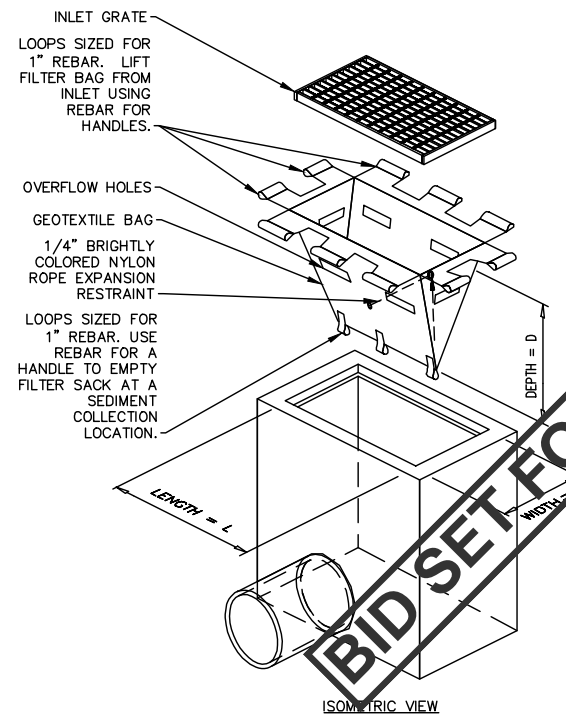


1 SILT FENCE INSTALLATION NOT TO SCALE



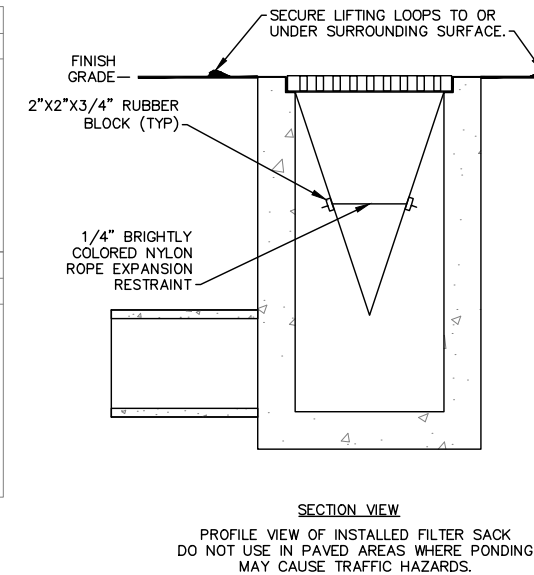
1. ATTACH THE WOVEN WIRE FENCE TO EACH POST AND THE GEOTEXTILE TO THE WOVEN WIRE FENCE (SPACE EVERY 30") WITH THREE WIRE TIES OR OTHER FASTENERS, ALL SPACED WITHIN THE TOP 3" OF THE FABRIC. ATTACH EACH TIE DIAGONALLY 45 DEGREES THROUGH THE FABRIC, WITH EACH PUNCTURE AT LEAST 1" VERTICALLY APART.
2. WHEN TWO SECTIONS OF SILT FENCE MATERIAL ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED ACROSS TWO POSTS.
3. MAINTENANCE SHALL BE PERFORMED AS NOTED IN THE SWPPP. DEPTH OF ACCUMULATED SEDIMENTS MAY NOT EXCEED ONE-HALF THE HEIGHT OF THE FABRIC. MAINTENANCE CLEANOUT MUST BE CONDUCTED REGULARLY TO PREVENT ACCUMULATED SEDIMENTS FROM REACHING ONE-HALF THE HEIGHT OF THE SILT FENCE MATERIAL ABOVE GRADE.
4. ALL SILT FENCE INLETS SHALL INCLUDE WIRE SUPPORT.

2 SILT FENCE INLET PROTECTION DETAIL (GRADED INLETS IN PERVIOUS AREAS) N.T.S.



| LOW TO MODERATE FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE | | |
|--|-------------|------------------|
| PROPERTIES | TEST METHOD | UNITS |
| GRAB TENSILE STRENGTH | ASTM D-4632 | 300 LBS |
| GRAB TENSILE ELONGATION | ASTM D-4632 | 20 % |
| PUNCTURE | ASTM D-4833 | 120 LBS |
| MULLEN BURST | ASTM D-3786 | 800 PSI |
| TRAPEZOID TEAR | ASTM D-4533 | 120 LBS |
| UV RESISTANCE | ASTM D-4355 | 80 % |
| APPARENT OPENING SIZE | ASTM D-4751 | 40 US SIEVE |
| FLOW RATE | ASTM D-4491 | 40 GAL/MIN/SQ FT |
| PERMITTIVITY | ASTM D-4491 | 0.55 SEC -1 |

| MODERATE TO HIGH FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE | | |
|---|-------------|-------------------|
| PROPERTIES | TEST METHOD | UNITS |
| GRAB TENSILE STRENGTH | ASTM D-4632 | 265 LBS |
| GRAB TENSILE ELONGATION | ASTM D-4632 | 20 % |
| PUNCTURE | ASTM D-4833 | 135 LBS |
| MULLEN BURST | ASTM D-3786 | 420 PSI |
| TRAPEZOID TEAR | ASTM D-4533 | 45 LBS |
| UV RESISTANCE | ASTM D-4355 | 90 % |
| APPARENT OPENING SIZE | ASTM D-4751 | 20 US SIEVE |
| FLOW RATE | ASTM D-4491 | 200 GAL/MIN/SQ FT |
| PERMITTIVITY | ASTM D-4491 | 1.5 SEC -1 |



- INLET PROTECTION DETAIL NOTES:**
1. REMOVE TRAPPED SEDIMENT WHEN BRIGHTLY COLORED EXPANSION RESTRAINT CAN NO LONGER BE SEEN.
 2. GEOTEXTILE SHALL BE A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS REQUIREMENTS IN THE SPECIFICATIONS TABLE.
 3. PLACE AN OIL ADSORBENT PAD OR PILLOW OVER INLET GRATE WHEN OIL SPILLS ARE A CONCERN.
 4. INSPECT PER REGULATORY REQUIREMENTS.
 5. THE WIDTH, "W", OF THE FILTER SACK SHALL MATCH THE INSIDE WIDTH OF THE GRATED INLET BOX.
 6. THE DEPTH, "D", OF THE FILTER SACK SHALL BE BETWEEN 18 INCHES AND 36 INCHES.
 7. THE LENGTH, "L", OF THE FILTER SACK SHALL MATCH THE INSIDE LENGTH OF THE GRATED INLET BOX.

3 FILTER SACKS INLET PROTECTION DETAIL (GRADED INLETS IN IMPERVIOUS AREAS) N.T.S.

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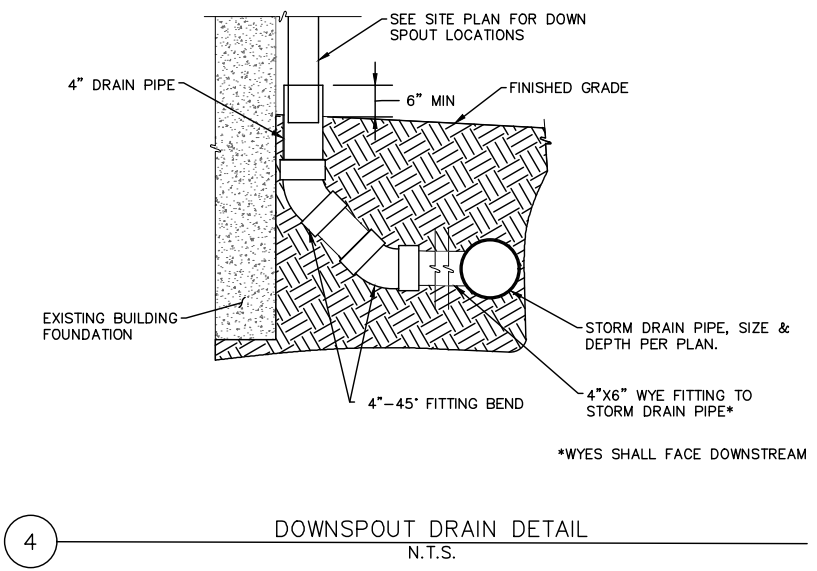
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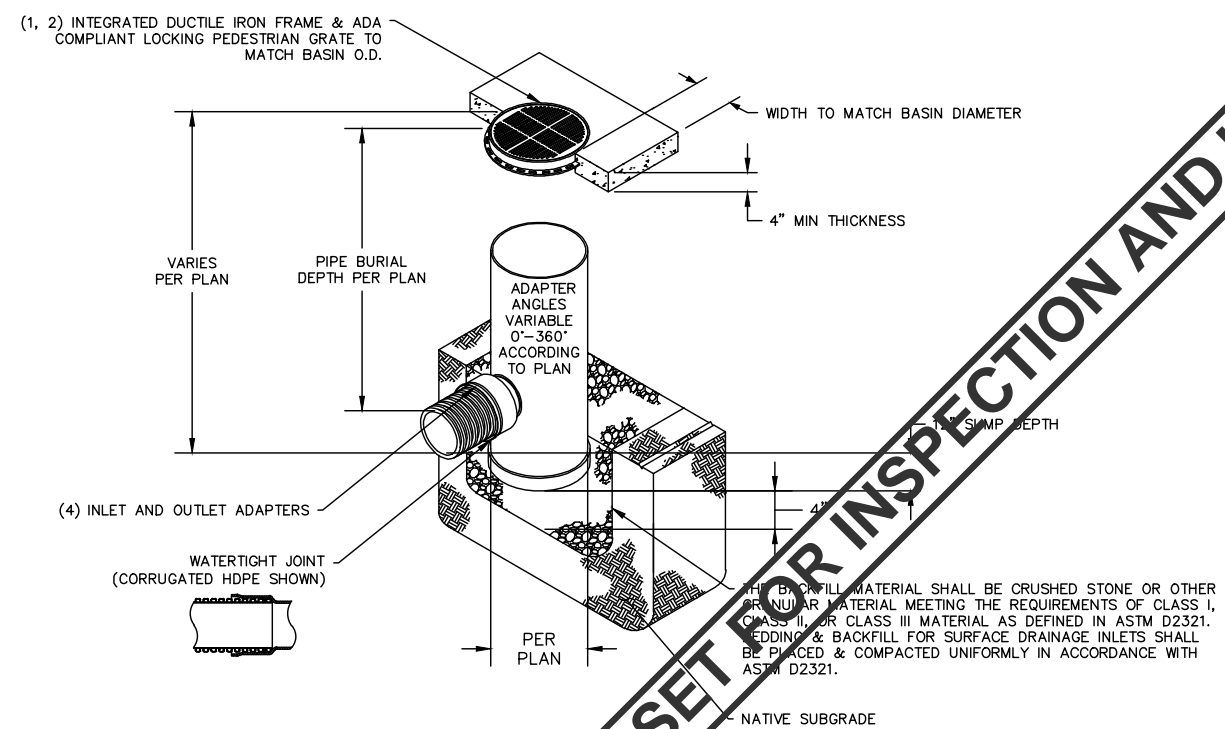
CHEHALIS RECREATION PARK IMPROVEMENT PROJECT
DETAILS C-6.1

| | |
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| #JOB NUMBER | 16310 |
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| OF | 49 |
| SHEETS | |

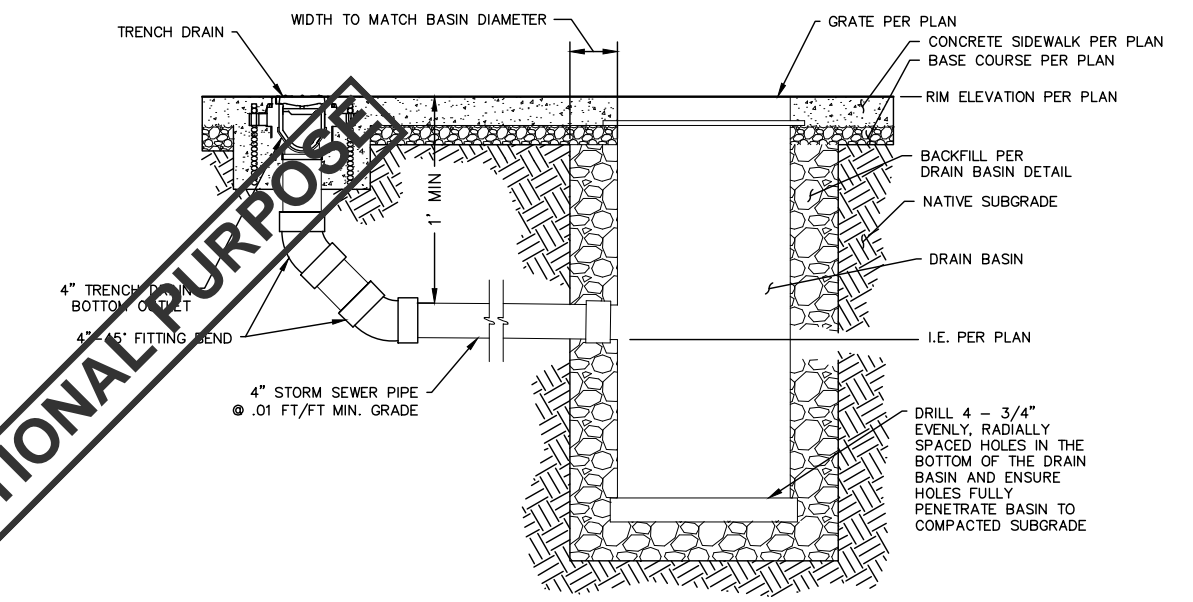
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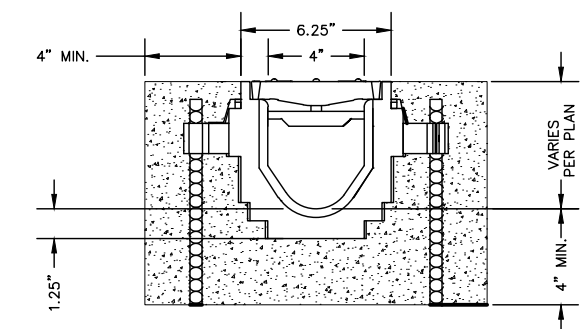
4 DOWNSPOUT DRAIN DETAIL
N.T.S.



2 DRAIN BASIN DETAIL
N.T.S.



3 TRENCH DRAIN TO DRAIN BASIN CONNECTION DETAIL
N.T.S.



1 TRENCH DRAIN DETAIL
N.T.S.

1. PEDESTRIAN GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
 2. FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
 3. DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN.
 4. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3075.
- PEDESTRIAN GRATES SHALL MEET H-10 LOAD RATING.

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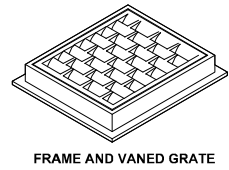
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**CHEHALIS RECREATION PARK
IMPROVEMENT PROJECT**

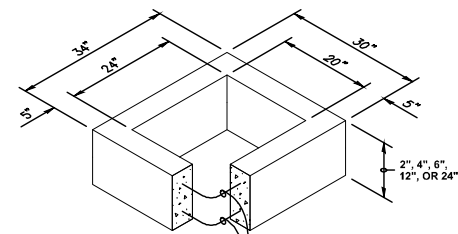
**DETAILS
C-6.2**

| | |
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| JOB NUMBER | 16310 |
| SHEET | 20 |
| OF | 49 |
| SHEETS | |

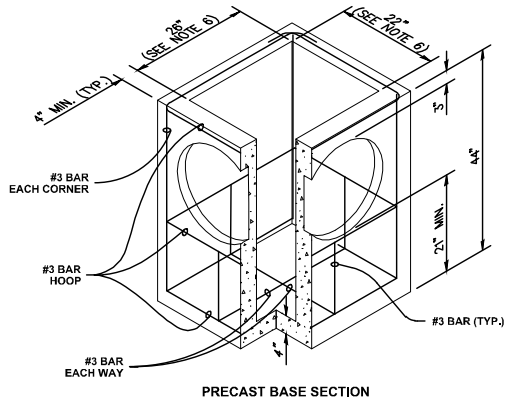
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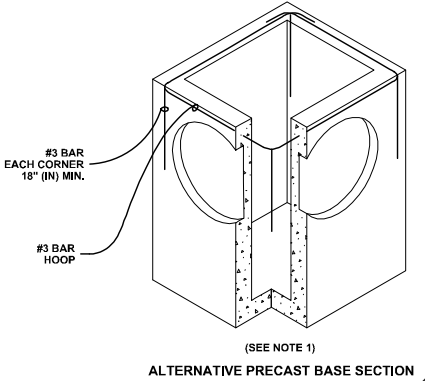
FRAME AND VANED GRATE



RECTANGULAR ADJUSTMENT SECTION



PRECAST BASE SECTION



ALTERNATIVE PRECAST BASE SECTION

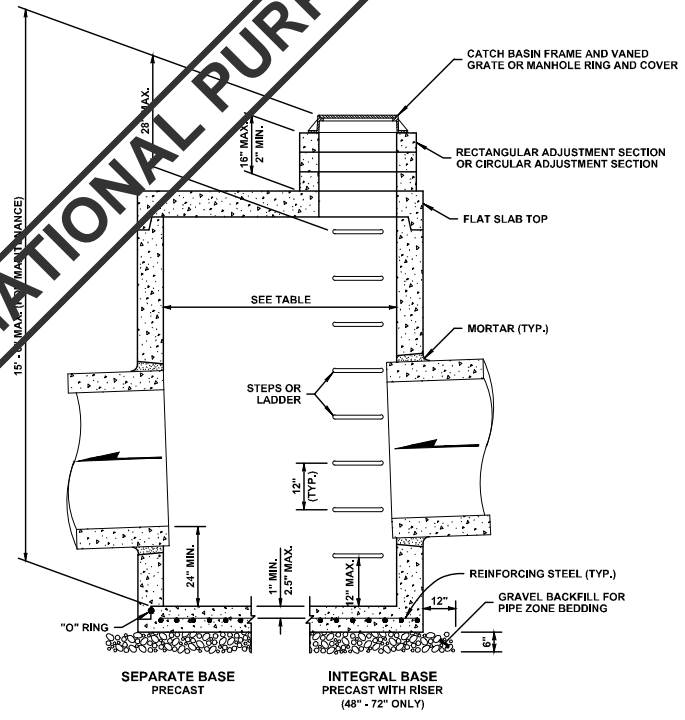
NOTES

- AS ACCEPTABLE ALTERNATIVES TO THE REBAR SHOWN IN THE PRECAST BASE SECTION, FIBERS (PLACED ACCORDING TO WSDOT STD SPEC), OR WIRE MESH HAVING A MINIMUM AREA OF 0.12 SQUARE INCHES PER FOOT SHALL BE USED WITH THE MINIMUM REQUIRED REBAR SHOWN IN THE ALTERNATIVE PRECAST BASE SECTION. WIRE MESH SHALL NOT BE PLACED IN THE KNOCKOUTS.
- THE KNOCKOUT DIAMETER SHALL NOT BE GREATER THAN 20" (IN). KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" (IN) MINIMUM TO 2.5" (IN) MAXIMUM. PROVIDE A 1.5" (IN) MINIMUM GAP BETWEEN THE KNOCKOUT WALL AND THE OUTSIDE OF THE PIPE. AFTER THE PIPE IS INSTALLED, FILL THE GAP WITH JOINT MORTAR IN ACCORDANCE WITH WSDOT STD SPEC SECTION 9-04.3.
- THE MAXIMUM DEPTH FROM THE FINISHED GRADE TO THE LOWEST PIPE INVERT SHALL BE 5' (FT).
- THE FRAME AND GRATE MAY BE INSTALLED WITH THE FLANGE DOWN, OR INTEGRALLY CAST INTO THE ADJUSTMENT SECTION WITH FLANGE UP.
- THE PRECAST BASE SECTION MAY HAVE A ROUNDED FLOOR, AND THE WALLS MAY BE SLOPED AT A RATE OF 1 : 24 OR STEEPER.
- THE OPENING SHALL BE MEASURED AT THE TOP OF THE PRECAST BASE SECTION.
- ALL PICKUP HOLES SHALL BE GROUTED FULL AFTER THE BASIN HAS BEEN PLACED.

PIPE ALLOWANCES

| PIPE MATERIAL | MAXIMUM INSIDE DIAMETER (INCHES) |
|--|----------------------------------|
| REINFORCED OR PLAIN CONCRETE | 24" |
| ALL METAL PIPE | 15" |
| CPSSP * (WSDOT SPEC 9-05.12(1)) | 12" |
| SOLID WALL PVC (WSDOT SPEC 9-05.12(1)) | 15" |
| PROFILE WALL PVC (WSDOT SPEC 9-05.12(2)) | 15" |

* CORRUGATED POLYETHYLENE STORM SEWER PIPE



NOTES

- NO STEPS ARE REQUIRED WHEN HEIGHT IS 4' OR LESS.
- THE BOTTOM OF THE PRECAST CATCH BASIN MAY BE SLOPED TO FACILITATE CLEANING.
- THE RECTANGULAR FRAME AND GRATE MAY BE INSTALLED WITH THE FLANGE UP OR DOWN. THE FRAME MAY BE CAST INTO THE ADJUSTMENT SECTION.
- KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM TO 2.5" MAXIMUM. PROVIDE A 1.5" MINIMUM GAP BETWEEN THE KNOCKOUT WALL AND THE OUTSIDE OF THE PIPE. AFTER THE PIPE IS INSTALLED, FILL THE GAP WITH JOINT MORTAR IN ACCORDANCE WITH WSDOT STD SPEC 9-04.3.

CATCH BASIN DIMENSIONS

| CATCH BASIN DIAMETER | MIN. WALL THICKNESS | MIN. BASE THICKNESS | MAXIMUM KNOCKOUT SIZE | MINIMUM DISTANCE BETWEEN KNOCKOUTS |
|----------------------|---------------------|---------------------|-----------------------|------------------------------------|
| 48" | 4" | 6" | 36" | 8" |
| 54" | 4.5" | 8" | 42" | 8" |
| 60" | 5" | 8" | 48" | 8" |
| 72" | 6" | 8" | 60" | 12" |
| 84" | 8" | 12" | 72" | 12" |
| 96" | 8" | 12" | 84" | 12" |
| 120" | 10" | 12" | 96" | 12" |
| 144" | 12" | 12" | 108" | 12" |

PIPE ALLOWANCES

| CATCH BASIN DIAMETER | PIPE MATERIAL WITH MAX. INSIDE DIAMETER | | | | |
|----------------------|---|-----------|---------|------------------|--------------------|
| | CONCRETE | ALL METAL | CPSSP ① | SOLID WALL PVC ② | PROFILE WALL PVC ③ |
| 48" | 24" | 30" | 24" | 30" | 30" |
| 54" | 30" | 36" | 30" | 36" | 36" |
| 60" | 36" | 42" | 36" | 42" | 42" |
| 72" | 42" | 54" | 42" | 48" | 48" |
| 84" | 54" | 60" | 54" | 48" | 48" |
| 96" | 60" | 72" | 60" | 48" | 48" |
| 120" | 66" | 84" | 60" | 48" | 48" |
| 144" | 78" | 96" | 60" | 48" | 48" |

- ① CORRUGATED POLYETHYLENE STORM SEWER PIPE (WSDOT SPEC 9-05.20)
- ② (WSDOT SPEC 9-05.12(1))
- ③ (WSDOT SPEC 9-05.12(2))

CATCH BASIN TYPE 1 DETAIL
N.T.S.

CATCH BASIN TYPE 2 DETAIL
N.T.S.

BID SET FOR INSPECTION AND INFORMATIONAL PURPOSE

| DATE | NO. | DATE | REVISIONS |
|---|--------|------|-----------|
| ENTERED BY: D. HALL, EIT | 4/1/19 | | |
| CHECKED BY: T. SKILLINGS, PE | 4/1/19 | | |
| PROJ. ENGR.: C. HAERR, PE | 4/1/19 | | |
| Plotted By: Muraco Heinsahn on 4/2/19 2:00 PM | | | |
| Saved By: Mheinsahn on 4/2/19 10:38 AM | | | |

**CHEHALIS RECREATION PARK
IMPROVEMENT PROJECT**
**DETAILS
C-6.3**

| | |
|------------|-------|
| #08 NUMBER | 16310 |
| SHEET | 21 |
| OF | 49 |
| SHEETS | |

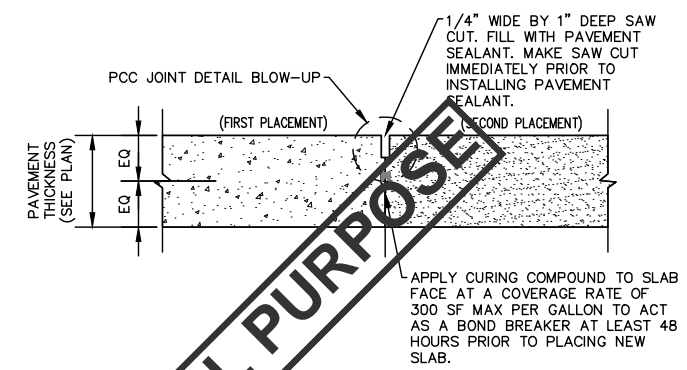
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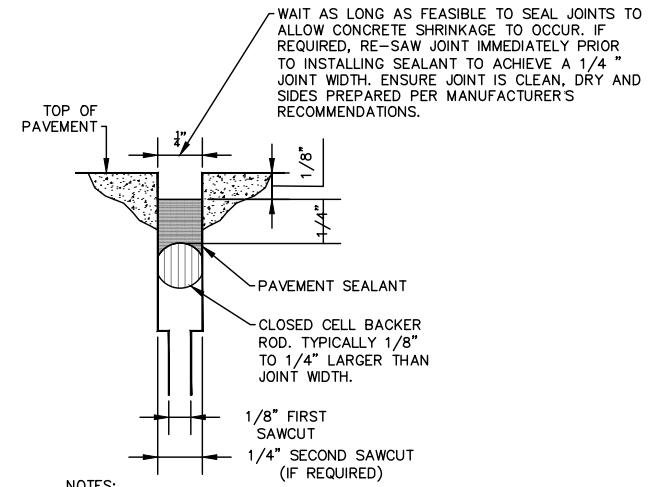
7 SWIRL FINISH PCC SIDEWALK
N.T.S.
(ADDITIVE ALTERNATE NO. 1)



6 BROOM FINISH PCC SIDEWALK
N.T.S.

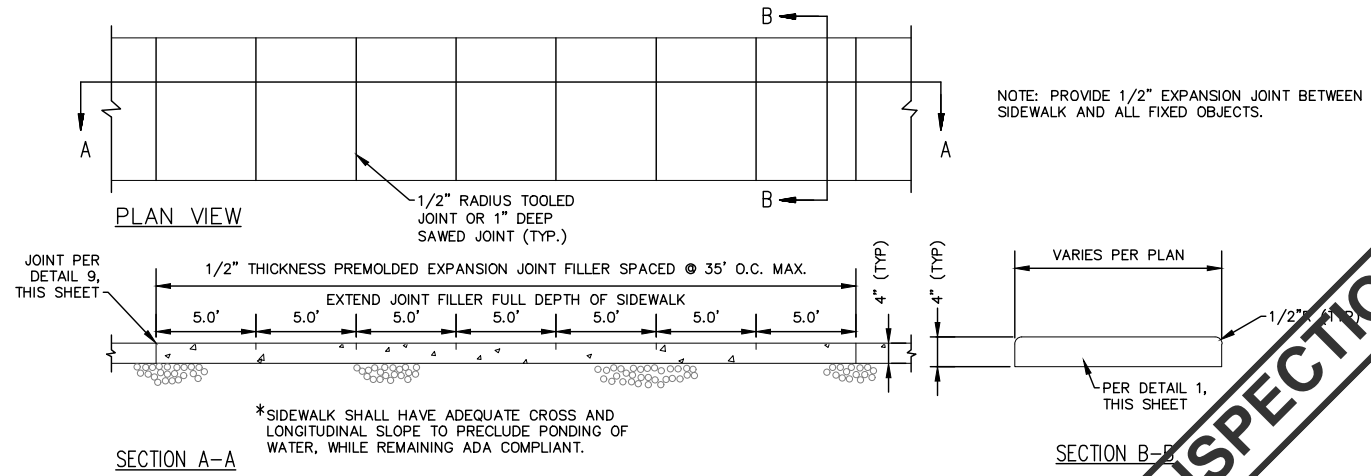


CONSTRUCTION JOINT



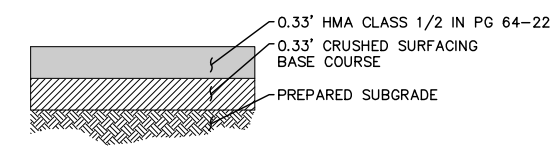
- NOTES:
1. ENSURE JOINTS ARE CLEAN AND DRY PRIOR TO THE APPLICATION OF THE JOINT SEALANT.
 2. INSTALL CLOSED CELL BACKER ROD AFTER JOINTS HAVE BEEN CLEANED AND DRIED IN ACCORDANCE WITH SEALANT MANUFACTURER'S REQUIREMENTS.
 3. INSTALL BACKER ROD AT CONSISTENT AND UNIFORM DEPTH.
 4. JOINT SEALANT APPLICATION SHALL BE IN STRICT COMPLIANCE WITH SEALANT MANUFACTURER'S REQUIREMENTS.

JOINT DETAIL BLOW-UP (TYP.)

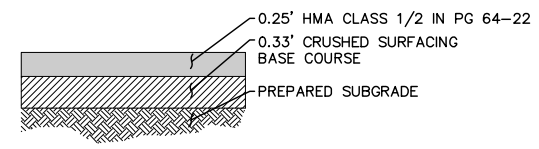


5 CONCRETE JOINT DETAILS
N.T.S.

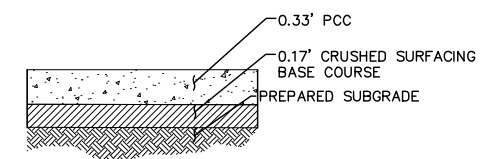
4 PCC JOINT DETAIL
N.T.S.



3 TYPICAL HMA DRIVEWAY SECTION
N.T.S.

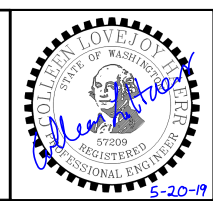
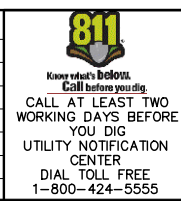


2 TYPICAL HMA SIDEWALK SECTION
N.T.S.

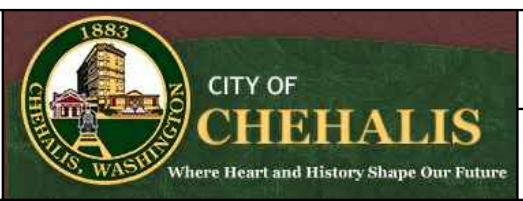


1 PCC SIDEWALK SECTION
N.T.S.

| DATE | NO. | DATE | REVISIONS |
|--|--------|------|-----------|
| ENTERED BY: D. HALL, EIT | 4/1/19 | | |
| CHECKED BY: T. SKILLINGS, PE | 4/1/19 | | |
| PROJ. ENGR.: C. HAERR, PE | 4/1/19 | | |
| Plotted By: David H. Rowland on 4/9/19 8:57 AM | | | |
| Saved By: Mheinsohn on 4/2/19 10:38 AM | | | |

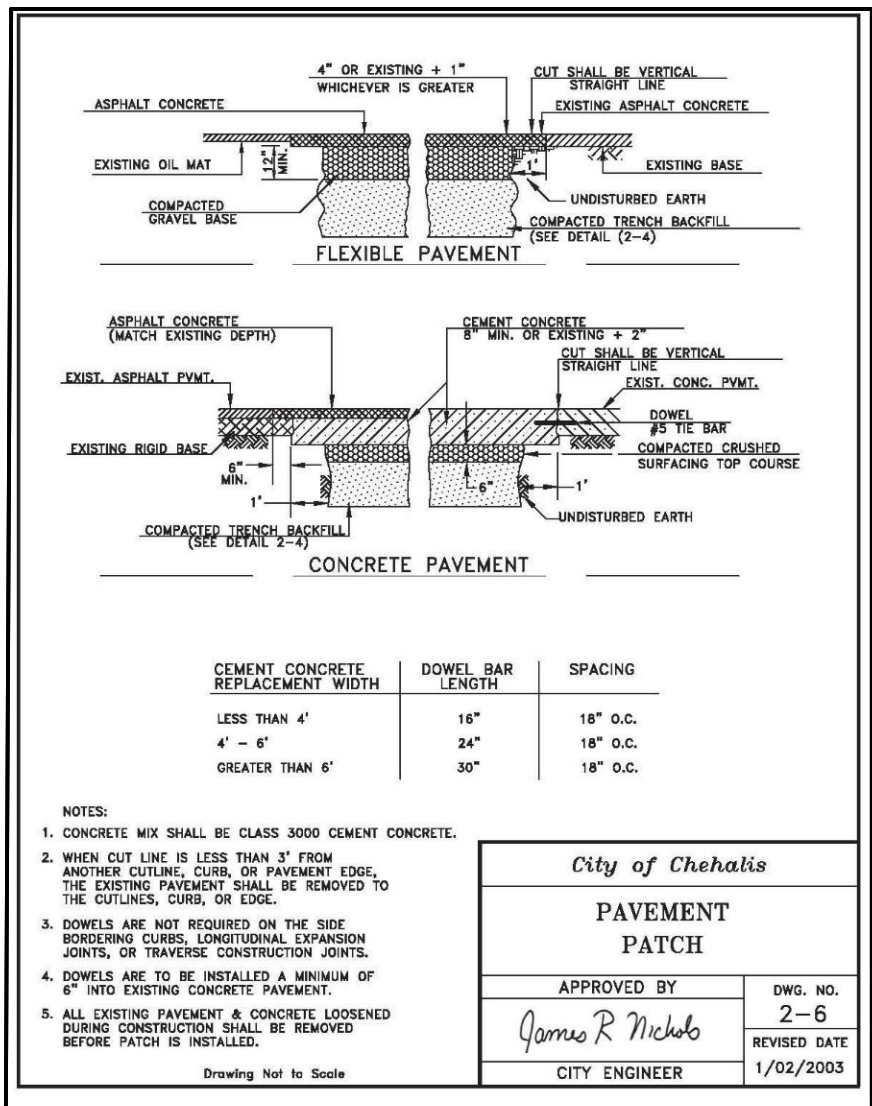


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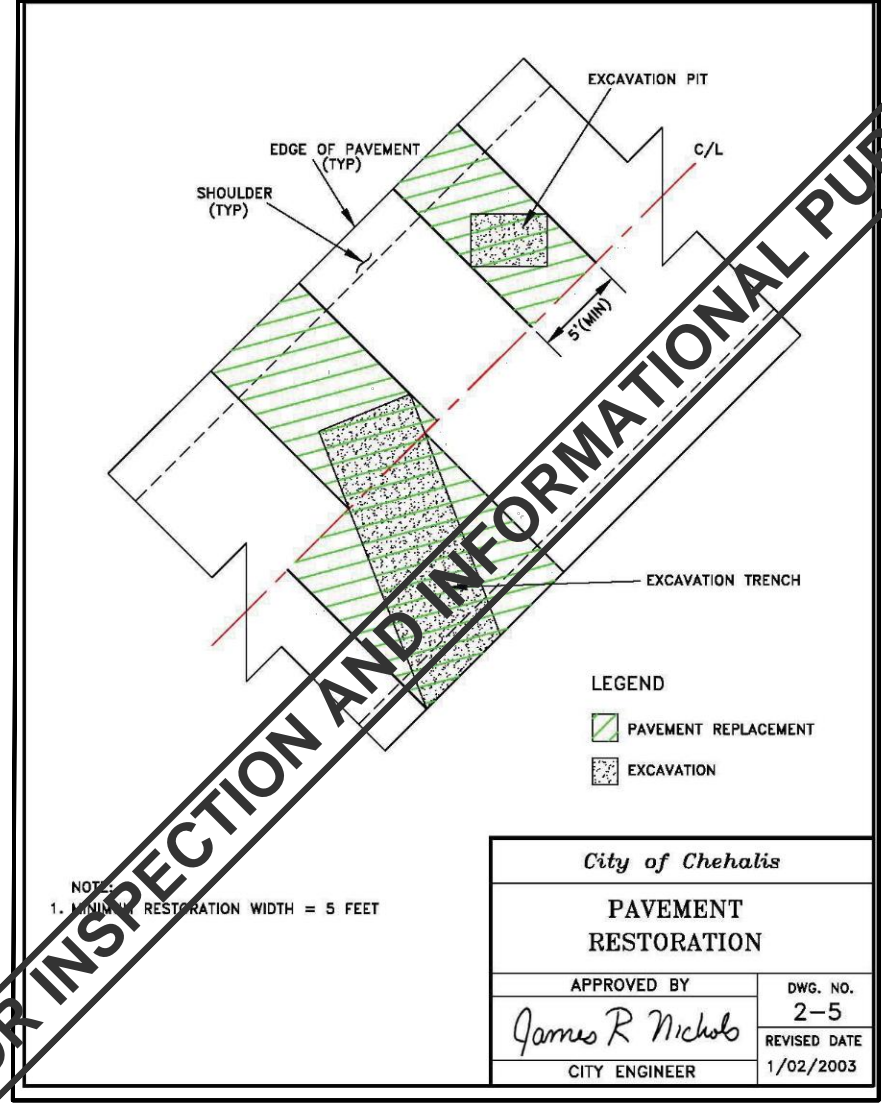


CHEHALIS RECREATION PARK IMPROVEMENT PROJECT
DETAILS C-6.4
JOB NUMBER 16310
SHEET 22 OF 49 SHEETS

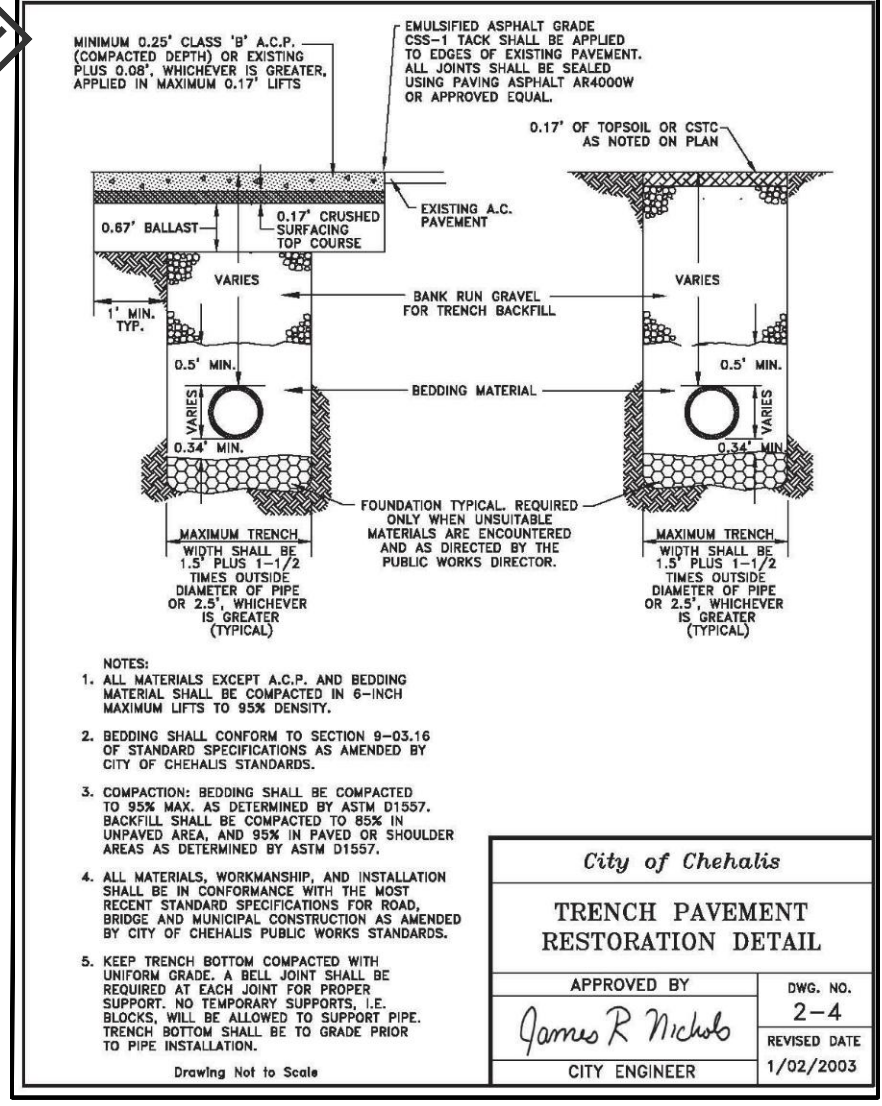
BID SET FOR INSPECTION AND INFORMATIONAL PURPOSE



3 PAVEMENT PATCH DETAIL
N.T.S.



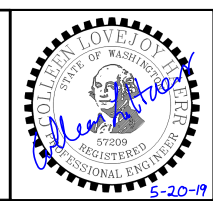
2 PAVEMENT RESTORATION DETAIL
N.T.S.



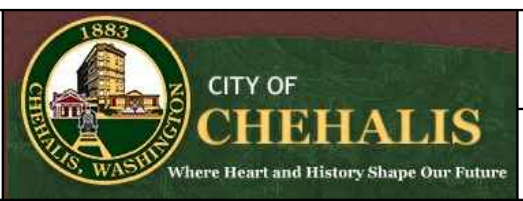
1 TRENCH RESTORATION DETAIL
N.T.S.

BID SET FOR INSPECTION AND INFORMATIONAL PURPOSE

| DATE | NO. | DATE | REVISIONS |
|---|-----|------|------------------------------|
| 4/1/19 | | | ENTERED BY: D. HALL, EIT |
| 4/1/19 | | | CHECKED BY: T. SKILLINGS, PE |
| 4/1/19 | | | PROJ. ENGR.: C. HAERR, PE |
| Plotted By: Muraco Heinsohn on 4/2/19 2:00 PM | | | |
| Saved By: Mheinsohn on 4/2/19 10:38 AM | | | |
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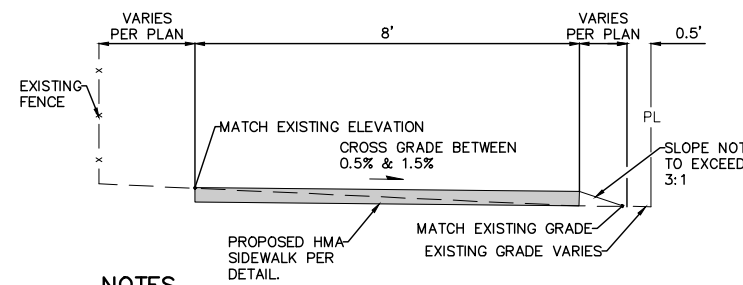


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CHEHALIS RECREATION PARK IMPROVEMENT PROJECT
DETAILS C-6.5

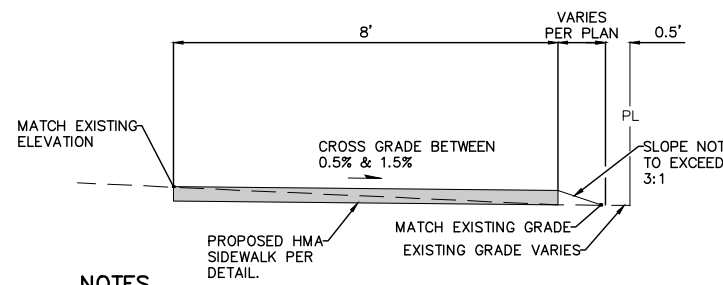
#08 NUMBER 16310
SHEET 23 OF 49 SHEETS



NOTES

1. EXISTING AND PROPOSED UTILITIES NOT DEPICTED IN THIS SECTION DETAIL.
2. NO GRADING, DISTURBANCE, OR ACCESS ON RAIL ROAD ROW.

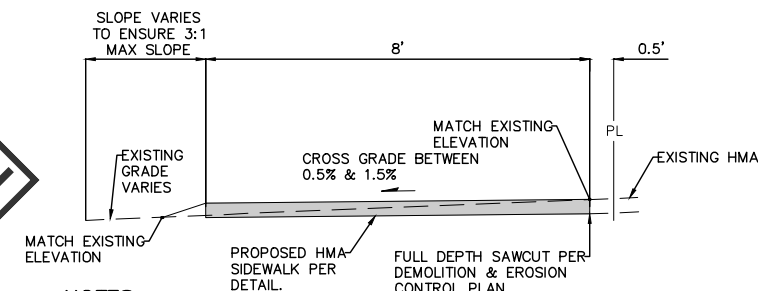
A SECTION NTS



NOTES

1. EXISTING AND PROPOSED UTILITIES NOT DEPICTED IN THIS SECTION DETAIL.
2. NO GRADING, DISTURBANCE, OR ACCESS ON RAIL ROAD ROW.

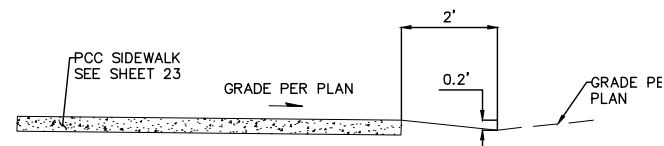
B SECTION NTS



NOTES

1. EXISTING AND PROPOSED UTILITIES NOT DEPICTED IN THIS SECTION DETAIL.
2. NO GRADING, DISTURBANCE, OR ACCESS ON RAIL ROAD ROW.

C SECTION NTS



NOTES

1. EXISTING AND PROPOSED UTILITIES NOT DEPICTED IN THIS SECTION DETAIL.

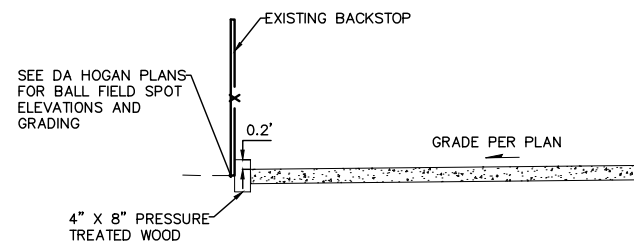
F SIDEWALK AND SWALE SECTION NTS



NOTES

1. EXISTING AND PROPOSED UTILITIES NOT DEPICTED IN THIS SECTION DETAIL.

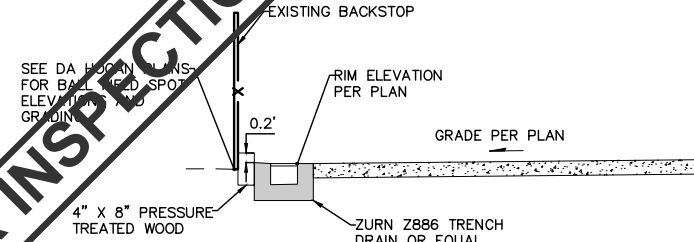
G SECTION NTS



NOTES

1. EXISTING AND PROPOSED UTILITIES NOT DEPICTED IN THIS SECTION DETAIL.
2. CONTRACTOR SHALL COVER AND KEEP CLEAN 4" X 8" PRESSURE TREATED WOOD AND MITER JOINTS WHEN POURING PCC.
3. CONTRACTOR SHALL NOTCH AS NECESSARY THE 4" X 8" PRESSURE TREATED WOOD TO CLEAR EXISTING FOOTINGS.
4. MITER JOINTS AT CORNERS.
5. PRESSURE TREATED WOOD SHALL BE NO. 1 GRADE AND IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION SECTION 9-09

I SECTION NTS



NOTES

1. EXISTING AND PROPOSED UTILITIES NOT DEPICTED IN THIS SECTION DETAIL.
2. CONTRACTOR SHALL COVER AND KEEP CLEAN 4" X 8" PRESSURE TREATED WOOD WHEN POURING PCC.
3. CONTRACTOR SHALL NOTCH AS NECESSARY THE 4" X 8" PRESSURE TREATED WOOD TO CLEAR EXISTING FOOTINGS.
4. MITER JOINTS AT CORNERS.
5. PRESSURE TREATED WOOD SHALL BE NO. 1 GRADE AND IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION SECTION 9-09

H SECTION NTS

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| | DATE | | REVISIONS |
|--|--------|------|-----------|
| | NO. | DATE | |
| ENTERED BY: D. HALL, EIT | 4/1/19 | | |
| CHECKED BY: T. SKILLINGS, PE | 4/1/19 | | |
| PROJ. ENGR.: C. HAERR, PE | 4/1/19 | | |
| Plotted By: Muraco Heinsohn on 4/2/19 2:00 PM | | | |
| Saved By: Mheinsohn on 4/2/19 10:38 AM | | | |
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**CHEHALIS RECREATION PARK
IMPROVEMENT PROJECT**

SECTIONS C-7.0

| | |
|-------------|-------|
| #JOB NUMBER | 16310 |
| SHEET | 24 |
| OF | 49 |
| SHEETS | |

BID SET



FIELD DEMOLITION NOTES

1. CALL BEFORE YOU DIG. LOCATE, IDENTIFY AND VERIFY LOCATION, ELEVATION, AND CONDITION OF ALL SITE UTILITIES PRIOR TO COMMENCING THE WORK. PROTECT ALL UTILITIES TO REMAIN.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL GATES AND FENCES AT PERIMETER OF THIS SITE TO ESTABLISH A SECURE WORK AREA. WORK SHALL INCLUDE TEMPORARY 6' HIGH CHAINLINK FENCING AT THE PERIMETER OF THE PROJECT AREA.
3. STRIP AREA WITHIN LIMITS OF DISTURBANCE OF EXISTING SOIL AND ORGANIC MATERIALS. ASSUMED GRASS SOD MAT TO REMOVE AND DISPOSED. STOCKPILE STRIPPED MATERIAL ONSITE AT LOCATIONS DEPICTED ON CIVIL PLANS. GRUBBED MATERIAL AND SOIL TO BE THOROUGHLY INCORPORATED/BLENDED TO DEVELOP A TOPSOIL/FRUITFUL SOIL MIXTURE THAT CAN BE USED FOR COMMON FILL IN ON SITE STOCKPILE AND/OR BERM AREAS.
4. PROTECT EXISTING BACKSTOP AND DUGOUTS TO REMAIN.
5. PROTECT EXISTING CATCH BASINS AND STORM DRAINAGE LINES TO REMAIN DURING CONSTRUCTION. INSTALL TESC MEASURES AROUND RIMS AND MAINTAIN THROUGHOUT CONSTRUCTION. ALL EXISTING CATCH BASINS SHALL BE TAKEN OFF-LINE PRIOR TO LAND CLEARING ACTIVITIES. OUTLET PIPES SHALL BE PLUGGED TO PREVENT DISCHARGE OF TURBID WATER IN THE DOWNSTREAM SYSTEM. PROPOSED INLETS SHALL BE PROTECTED WITH CATCH BASIN INSERTS, AND THEIR OUTLETS SHALL BE PLUGGED UNTIL THE SITE IS STABILIZED.

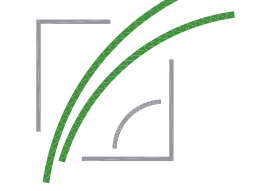
NOTE LEGEND

1. (INDICATES GENERAL CONSTRUCTION NOTE)
- 3 (INDICATES SPECIFIC CONSTRUCTION KEYNOTE)

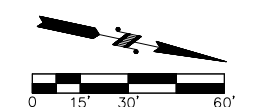
6. REMOVE EXISTING IRRIGATION SYSTEM AND CORRESPONDING BOXES WITHIN LIMIT OF WORK IF ENCOUNTERED AND DELIVER TO THE OWNER ON SITE.
7. PROTECT EXISTING CHAINLINK FENCE, POSTS, FOOTINGS.
8. PROTECT FOUL POLES TO ALIGN WITH FOUL LINES.
9. PROTECT ALL UTILITIES TO REMAIN.
10. BACKFILL ALL VOIDS WITH STRUCTURAL FILL IN 12 INCH LIFTS COMPACTED TO A MIN. OF 95%.
11. PROTECT EXISTING TREE TO REMAIN, SEE CIVIL SHEETS FOR DEMOLITION OF EXISTING SITE ELEMENTS
12. REMOVE EXISTING DRAIN LINES WHEN ENCOUNTERED, IF BELOW THE WORK, PLUG/CAP
13. POTHOLE/LOCATE ALIGNMENT AND DEPTH OF EXISTING PIPING. REMOVE IF IN CONFLICT WITH THE WORK
14. SEE NOTE 22, SHEET 6/9. FOR REMOVAL OF BULLPEN RETAIN DUGOUT FENCING AND ROOF.
15. PROTECT AND MAINTAIN SCOREBOARD AND LIGHT POLES THROUGHOUT CONSTRUCTION.

FIELD DEMOLITION LEGEND

- EXISTING NATURAL TURF TO BE REMOVED AND DISPOSED OF OFF SITE. STOCKPILE STRIPPED MATERIAL ONSITE AT LOCATIONS DEPICTED ON CIVIL PLANS
- REMOVE EXISTING INFIELD SOIL
- REMOVE EXISTING BULLPEN. PROTECT ADJACENT DUGOUT
- DRAIN LINES TO BE REMOVED (APPROXIMATE LOCATIONS SHOWN)
- DRAIN LINES TO REMAIN (APPROXIMATE LOCATIONS SHOWN)



DA HOGAN
 119 1st Avenue South, Suite 110
 Seattle, Washington 98104
 p. 206.285.0400
 f. 206.285.0480



811
 CALL AT LEAST TWO WORKING DAYS BEFORE YOU DIG
 UTILITY NOTIFICATION CENTER
 DIAL TOLL FREE
 1-800-424-5555

DATE: 5-14-19 DRAWN BY: DMD CHECKED BY: RSH

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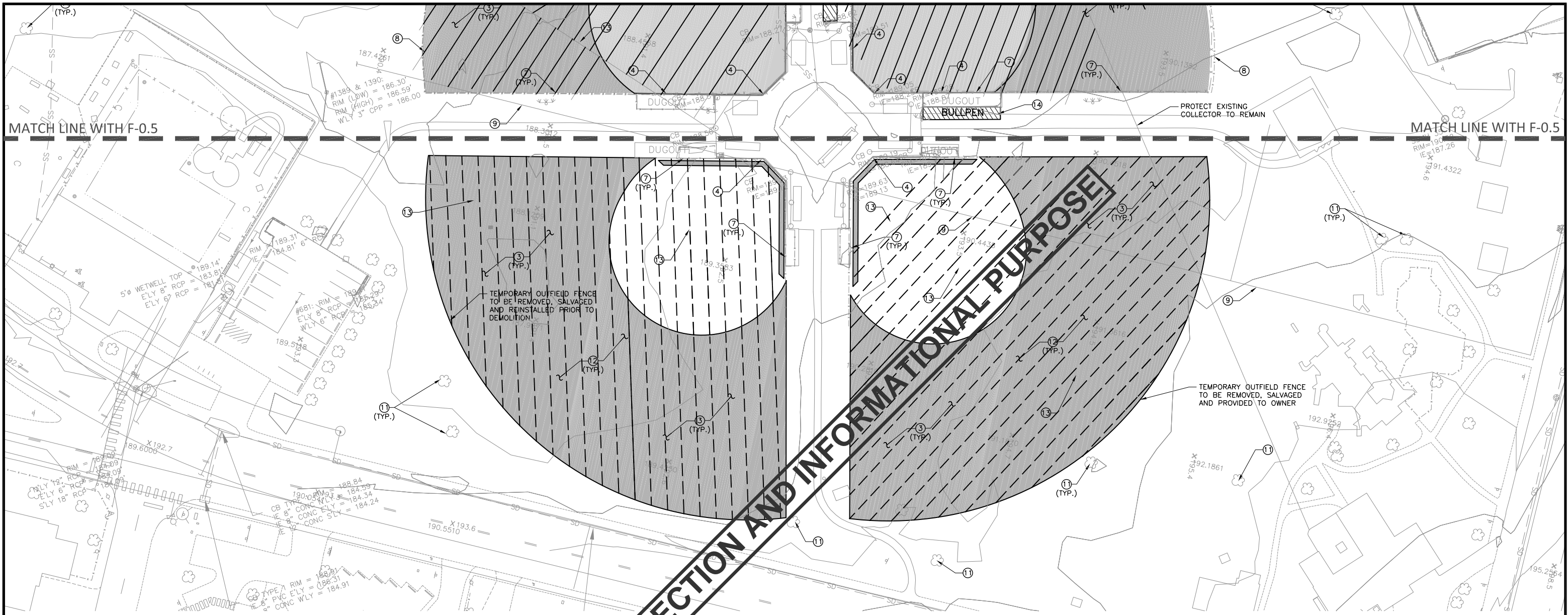
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CITY OF CHEHALIS
 CHEHALIS RECREATION PARK
 F-0.5
 WEST FIELDS DEMOLITION PLAN

JOB NUMBER
 16310
 SHEET
 25
 OF
 49
 SHEETS

BID SET



FIELD DEMOLITION NOTES

1. CALL BEFORE YOU DIG. LOCATE, IDENTIFY AND VERIFY LOCATION, ELEVATION, AND CONDITION OF ALL SITE UTILITIES PRIOR TO COMMENCING THE WORK. PROTECT ALL UTILITIES TO REMAIN.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL GATES AND FENCES AT PERIMETER OF THIS SITE TO ESTABLISH A SECURE WORK AREA. WORK SHALL INCLUDE TEMPORARY 6' HIGH CHAINLINK FENCING AT THE PERIMETER OF THE PROJECT AREA.
3. STRIP AREA WITHIN LIMITS OF DISTURBANCE OF EXISTING SOIL AND ORGANIC MATERIALS. ASSUMED GRASS SOD MAT TO REMOVE AND DISPOSE TO DEPTH. STOCKPILE STRIPPED MATERIAL ONSITE AT LOCATIONS DEPICTED ON CIVIL PLANS. GRUBBED MATERIAL AND SOIL TO BE THOROUGHLY INCORPORATED/BLENDED TO DEVELOP A TOPSOIL/FINE SOIL MIXTURE THAT CAN BE USED FOR COMMON FILL IN ON SITE STOCKPILE AND/OR BERM AREAS.
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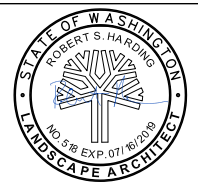
- NOTE LEGEND**
- 1. (INDICATES GENERAL CONSTRUCTION NOTE)
 - 3. (INDICATES SPECIFIC CONSTRUCTION KEYNOTE)

FIELD DEMOLITION LEGEND

- EXISTING NATURAL TURF TO BE REMOVED AND DISPOSED OF OFF SITE. STOCKPILE STRIPPED MATERIAL ONSITE AT LOCATIONS DEPICTED ON CIVIL PLANS
- REMOVE EXISTING INFIELD SOIL
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- DRAIN LINES TO BE REMOVED (APPROXIMATE LOCATIONS SHOWN)
- DRAIN LINES TO REMAIN (APPROXIMATE LOCATIONS SHOWN)

DATE: 5-14-19 DRAWN BY: DMD CHECKED BY: RSH

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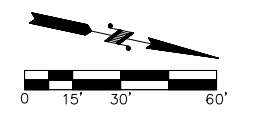
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 EAST FIELDS DEMOLITION PLAN

JOB NUMBER: 16310
 SHEET 26 OF 49 SHEETS

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MATCH LINE WITH F-0.5

MATCH LINE WITH F-0.5

FIELD DEMOLITION NOTES

1. CALL BEFORE YOU DIG. LOCATE, IDENTIFY AND VERIFY LOCATION, ELEVATION, AND CONDITION OF ALL SITE UTILITIES PRIOR TO COMMENCING THE WORK. PROTECT ALL UTILITIES TO REMAIN.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL GATES AND FENCES AT PERIMETER OF THIS SITE TO ESTABLISH A SECURE WORK AREA. WORK SHALL INCLUDE TEMPORARY 6' HIGH CHAINLINK FENCING AT THE PERIMETER OF THE PROJECT AREA.
3. STRIP AREA WITHIN LIMITS OF DISTURBANCE OF EXISTING SOIL AND ORGANIC MATERIALS. ASSUMED GRASS SOD MAT TO REMOVE AND DISPOSE TO DEPTH. STOCKPILE STRIPPED MATERIAL ONSITE AT LOCATIONS DEPICTED ON CIVIL PLANS. GRUBBED MATERIAL AND SOIL TO BE THOROUGHLY INCORPORATED/BLENDED TO DEVELOP A TOPSOIL/FINE SOIL MIXTURE THAT CAN BE USED FOR COMMON FILL IN ON SITE STOCKPILE AND/OR BERM AREAS.
4. PROTECT EXISTING BACKSTOP AND DUGOUTS TO REMAIN.
5. PROTECT EXISTING CATCH BASINS AND STORM DRAINAGE LINES TO REMAIN DURING CONSTRUCTION. INSTALL TESC MEASURES AROUND RIMS AND MAINTAIN THROUGHOUT CONSTRUCTION. ALL EXISTING CATCH BASINS SHALL BE TAKEN OFF-LINE PRIOR TO LAND CLEARING ACTIVITIES. OUTLET PIPES SHALL BE PLUGGED TO PREVENT DISCHARGE OF TURBID WATER IN THE DOWNSTREAM SYSTEM. PROPOSED INLETS SHALL BE PROTECTED WITH CATCH BASIN INSERTS, AND THEIR OUTLETS SHALL BE PLUGGED UNTIL THE SITE IS STABILIZED.

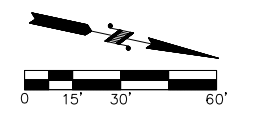
NOTE LEGEND
 1. (INDICATES GENERAL CONSTRUCTION NOTE)
 3. (INDICATES SPECIFIC CONSTRUCTION KEYNOTE)

6. REMOVE EXISTING IRRIGATION SYSTEM AND CORRESPONDING BOXES WITHIN LIMIT OF WORK IF ENCOUNTERED AND DELIVER TO THE OWNER ON SITE.
7. PROTECT EXISTING CHAINLINK FENCE, POSTS, FOOTINGS.
8. PROTECT FOUL POLES TO ALIGN WITH FOUL LINES.
9. PROTECT ALL UTILITIES TO REMAIN.
10. BACKFILL ALL VOIDS WITH STRUCTURAL FILL IN 12 INCH LIFTS COMPACTED TO A MIN. OF 95%.
11. PROTECT EXISTING TREE TO REMAIN, SEE CIVIL SHEETS FOR DEMOLITION OF EXISTING SITE ELEMENTS
12. REMOVE EXISTING DRAIN LINES WHEN ENCOUNTERED, IF BELOW THE WORK, PLUG/CAP
13. POTHOLE/LOCATE ALIGNMENT AND DEPTH OF EXISTING PIPING. REMOVE IF IN CONFLICT WITH THE WORK

FIELD DEMOLITION LEGEND

- EXISTING NATURAL TURF TO BE REMOVED AND DISPOSED OF OFF SITE. STOCKPILE STRIPPED MATERIAL ONSITE AT LOCATIONS DEPICTED ON CIVIL PLANS
- REMOVE EXISTING INFIELD SOIL
- DRAIN LINES TO BE REMOVED (APPROXIMATE LOCATIONS SHOWN)
- DRAIN LINES TO REMAIN (APPROXIMATE LOCATIONS SHOWN)

DATE: 5-14-19 DRAWN BY: DMD CHECKED BY: RSH



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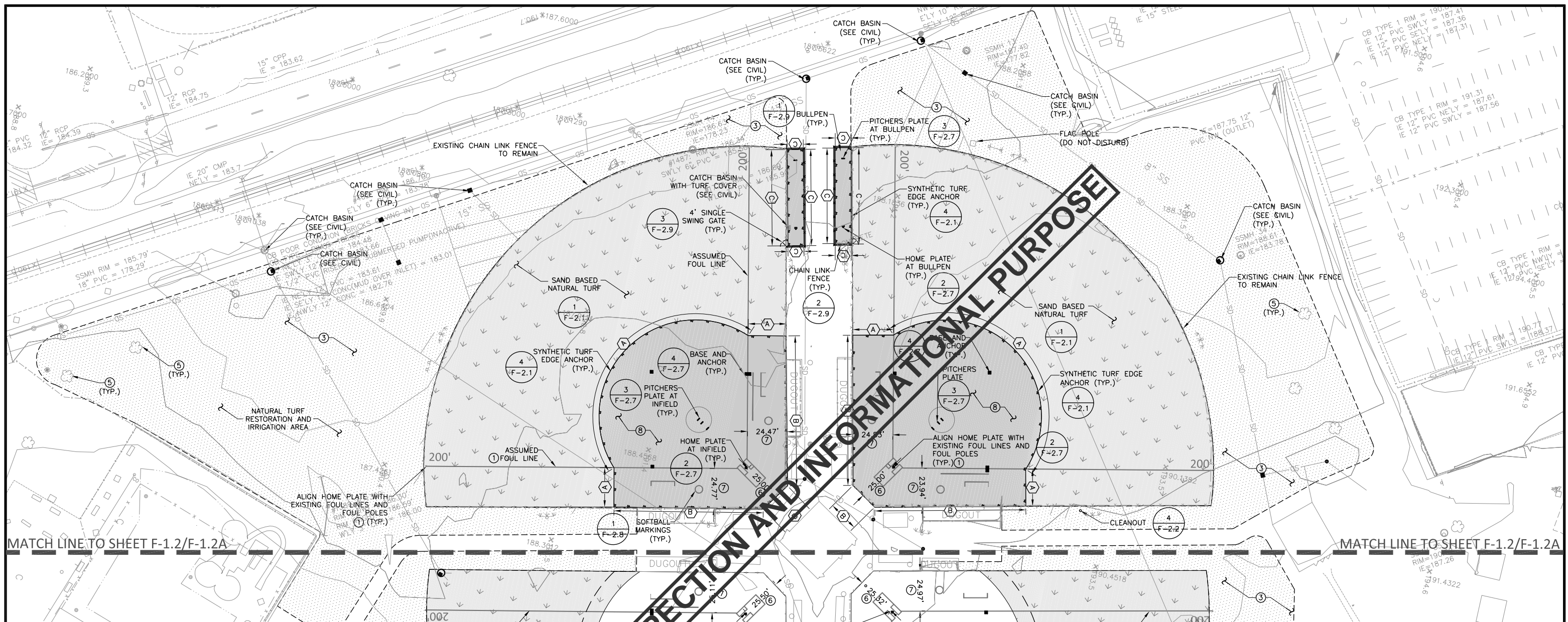


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CITY OF CHEHALIS
 1883
 CHEHALIS, WASHINGTON
 Where Heart and History Shape Our Future

CITY OF CHEHALIS
 CHEHALIS RECREATION PARK
 F-0.6A
 EAST FIELDS DEMOLITION PLAN (ALT 2)

JOB NUMBER: 16310
 SHEET 27 OF 49 SHEETS



EDGE ANCHOR LEGEND

- (A) EDGE ANCHOR AT NATURAL TURF 4
F-2.1
- (B) EDGE ANCHOR AT EXISTING FENCE/CONCRETE EDGE 3
F-2.6
- (C) EDGE ANCHOR AT NEW CONCRETE CURB 1
F-2.6

LAYOUT LEGEND

- SAND BASED NATURAL TURF
- PERIMETER RESTORATION AND IRRIGATION AREA
- INFILLED SYNTHETIC TURF
- NEW CHAINLINK FENCE
- EXISTING CHAINLINK FENCE
- LIMIT OF SYNTHETIC TURF AND EDGE ANCHOR
- EXISTING OR NEW CATCH BASIN INLET (CBI) (SEE CIVIL)
- CLEANOUT

FIELD LAYOUT NOTES

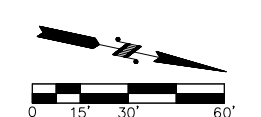
1. (INDICATES GENERAL CONSTRUCTION NOTE)
 2. (INDICATES SPECIFIC CONSTRUCTION KEYNOTE)
1. SOFTBALL MARKINGS SHOWN FOR REFERENCE ONLY IN NATURAL TURF.
 2. KEY LAYOUT POINTS; VERIFY & COORDINATE WITH OTHER TRADES PRIOR TO CONSTRUCTION. POINTS WILL BE PROVIDED ELECTRONICALLY BY THE OWNERS REPRESENTATIVE UPON REQUEST OF THE CONTRACTOR.
 3. RESTORE AND SEED ALL DISTURBED NON-SURFACED AREA OUTSIDE THE FIELD AND PERIMETER WALKWAYS.
 4. REGRADE INFIELD AREAS TO PLANARITY AND MEET/MATCH EXISTING OR NEW CONCRETE PAVING AND NATURAL TURF EDGES ASSUME IMPORT AND PLACEMENT OF UP TO 2" OF INFIELD MIX.
 5. PROTECT EXISTING TREE TO REMAIN
 6. MATCH EXISTING HOME PLATE LOCATIONS. FIELD VERIFY
 7. FIELD VERIFY MEASUREMENTS
 8. CONSTRUCT NEW INFILLED SYNTHETIC TURF INFIELD
 9. AT SOFTBALL FIELD THE INFIELD ARC HAS ITS CENTER POINT 46.00' FROM HOME PLATE ALIGNED WITH PITCHERS PLATE. THE INFIELD ARC HAS A 60.00' RADIUS.
 10. FURNISH AND INSTALL NEW BASES, PLATES, AND ANCHORS.
 11. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING NATURAL TURF AREAS FROM DAMAGE DURING CONSTRUCTION AND SHALL REPAIR AND RESTORE ALL DISTURBED AREAS.
 12. SYNTHETIC TURF INFILL TO MATCH FLUSH WITH CONCRETE CURBS

NOTE LEGEND

- 1. (INDICATES GENERAL CONSTRUCTION NOTE)
- 2. (INDICATES SPECIFIC CONSTRUCTION KEYNOTE)



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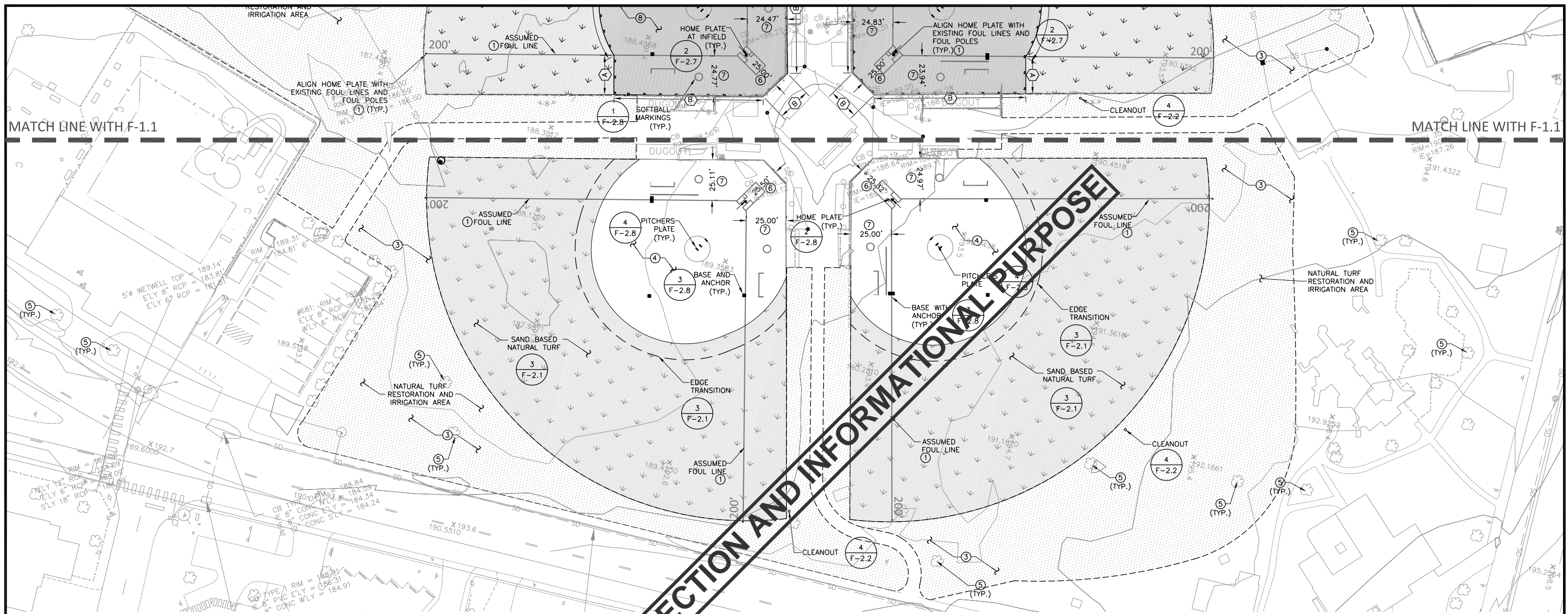


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CITY OF CHEHALIS
 CHEHALIS RECREATION PARK
 F-1.1
 WEST FIELDS LAYOUT PLAN

JOB NUMBER
 16310
 SHEET
 28
 OF
 49
 SHEETS



EDGE ANCHOR LEGEND

- (A) EDGE ANCHOR AT NATURAL TURF 4
F-2.1
- (B) EDGE ANCHOR AT EXISTING FENCE/CONCRETE EDGE 3
F-2.6
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F-2.6

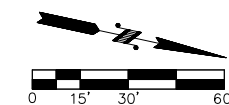
LAYOUT LEGEND

- SAND BASED NATURAL TURF
- INFILLED SYNTHETIC TURF
- PERIMETER RESTORATION AND IRRIGATION AREA
- NEW CHAINLINK FENCE
- EXISTING CHAINLINK FENCE
- LIMIT OF SYNTHETIC TURF AND EDGE ANCHOR
- EXISTING OR NEW CATCH BASIN INLET (CBI) (SEE CIVIL)
- CLEANOUT

NOTE LEGEND

FIELD LAYOUT NOTES

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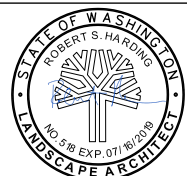


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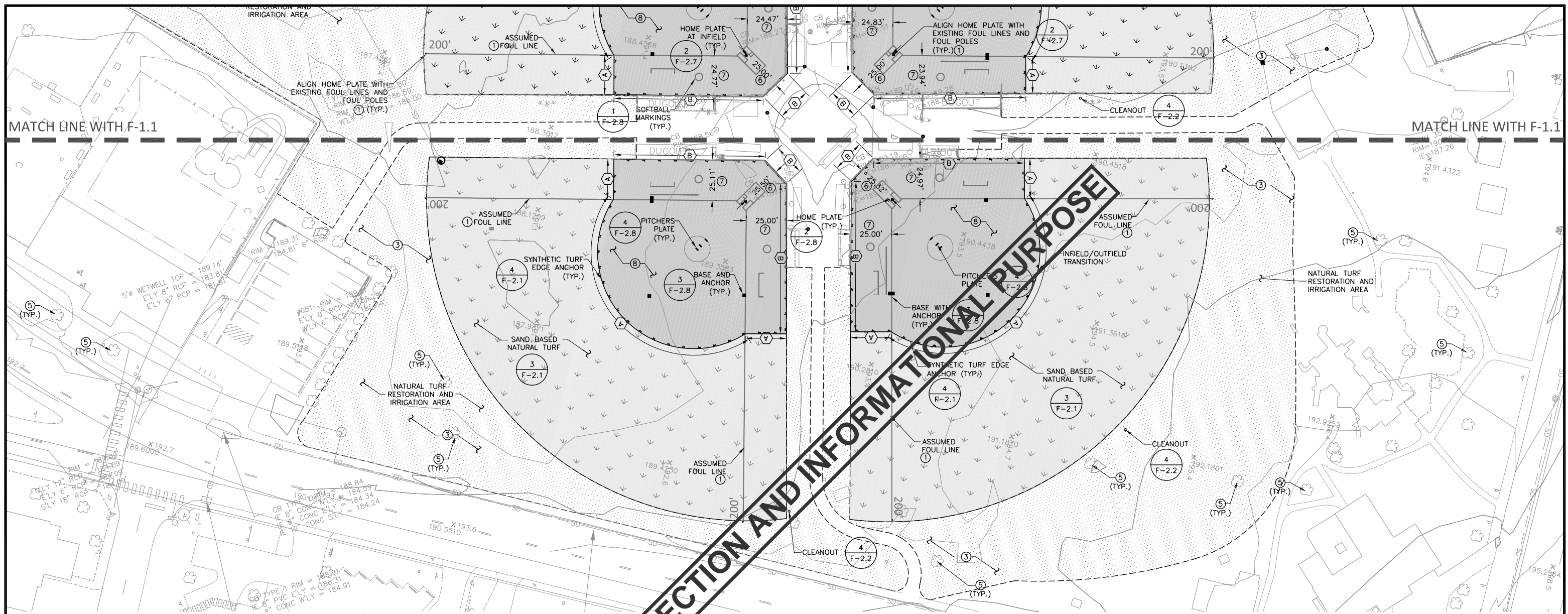
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CITY OF CHEHALIS
CHEHALIS RECREATION PARK
F-1.2
EAST FIELD LAYOUT PLAN (BASE BID)

JOB NUMBER
16310

SHEET
29
OF
49
SHEETS



BID SET FOR INSPECTION AND INFORMATIONAL PURPOSE

EDGE ANCHOR LEGEND

- (A) EDGE ANCHOR AT NATURAL TURF 4
F-2.1
- (B) EDGE ANCHOR AT EXISTING FENCE/CONCRETE EDGE 3
F-2.6
- (C) EDGE ANCHOR AT NEW CONCRETE CURB 1
F-2.6

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- SYNTHETIC TURF
- INFILLED SYNTHETIC TURF
- NEW CHAINLINK FENCE
- EXISTING CHAINLINK FENCE
- PERIMETER RESTORATION AND IRRIGATION AREA
- LIMIT OF SYNTHETIC TURF AND EDGE ANCHOR
- EXISTING OR NEW CATCH BASIN INLET (CBI) (SEE CIVIL)
- CLEANOUT

FIELD LAYOUT NOTES

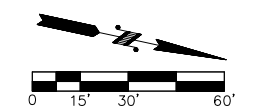
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NOTE LEGEND

- 1. (INDICATES GENERAL CONSTRUCTION NOTE)
- 2. (INDICATES SPECIFIC CONSTRUCTION KEYNOTE)



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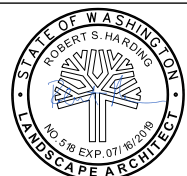


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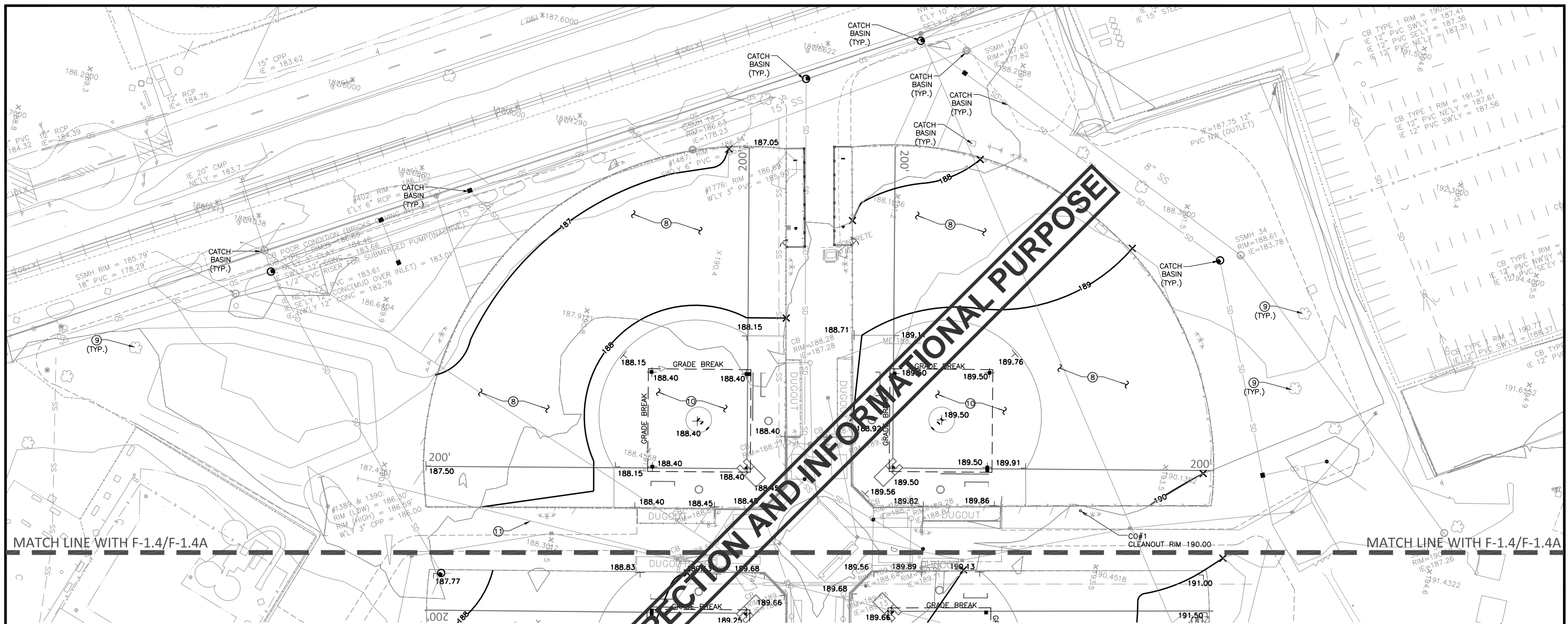
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CITY OF CHEHALIS
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F-1.2A
EAST FIELD LAYOUT PLAN (ALT 2)

JOB NUMBER
16310
SHEET
30
OF
49
SHEETS

BID SET

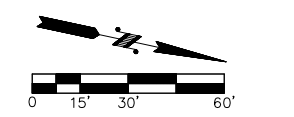


MATCH LINE WITH F-1.4/F-1.4A

MATCH LINE WITH F-1.4/F-1.4A

- FIELD GRADING NOTES**
- NOTE LEGEND**
- 1. (INDICATES GENERAL CONSTRUCTION NOTE)
 - ③ (INDICATES SPECIFIC CONSTRUCTION KEYNOTE)
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 2. NEW CONTOURS SHOWN ARE FINISH GRADE ELEVATIONS.
 3. BACKFILL AND COMPACT EXCAVATED AREAS RESULTING FROM DEMOLITION ACTIVITIES WITH SELECT FILL TO 95% WITH 12" MAX LIFTS.
 4. STRIP FIELD AREA OF 4" OF EXISTING SOD AND ORGANIC MATERIALS AND DISPOSE PER CIVIL PLANS.
 5. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN THE EVENT OR DISCOVERY OF POOR SOILS, GROUNDWATER OR DISCREPANCIES IN THE EXISTING CONDITIONS AS NOTED ON THE PLANS.
 6. ALL SURFACES SHALL MEET AND MATCH ADJACENT SURFACES, UNLESS OTHERWISE NOTED.
 - ⑦ REGRADE SURFACE OF INFIELDS TO PROVIDE A CONSTANT PLANAR SURFACE SLOPE AND TO MATCH PROPOSED GRADES. FILL ALL HOLES/DEPRESSIONS AND REMOVE HIGH AREAS. MAINTAIN EXISTING BASE LOCATIONS HOWEVER INSTALL NEW ANCHORS AND PLATES. STOCKPILE ALL EXCESS MATERIAL PER DIRECTIONS IN CIVIL PLANS.
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 - ⑪ POTHOLE/LOCATE ALIGNMENT AND DEPTH OF EXISTING PIPING.
- DATE: 5-14-19 DRAWN BY: DMD CHECKED BY: RSH

- FIELD GRADING LEGEND**
- 187 — EXISTING CONTOUR LINES
 - 188.40 + ROOT ELEVATION
 - 188 — NEW CONTOUR LINES
 - 5% 0% SURFACE SLOPE
 - C — CONSTANT SURFACE SLOPE
 - X — MATCH TO EXISTING
 - ○ EXISTING OR NEW CATCH BASIN INLET (CBI) (SEE CIVIL)
 - — CHAINLINK FENCE AND CONCRETE CURB
 - X — CHAINLINK FENCE

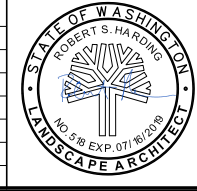


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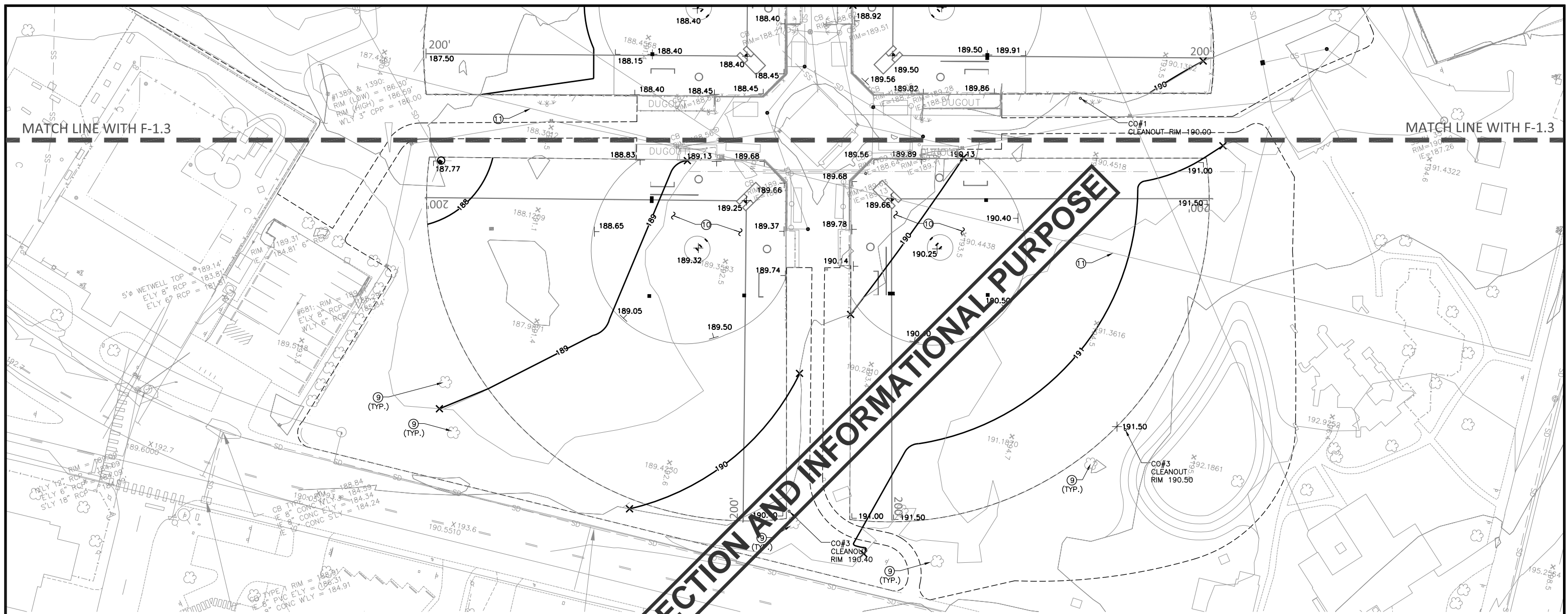
CITY OF CHEHALIS

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CITY OF CHEHALIS
CHEHALIS RECREATION PARK
F-1.3
WEST FIELDS GRADING PLAN

JOB NUMBER
16310

SHEET
31
OF
49
SHEETS



FIELD GRADING NOTES

- NOTE LEGEND**
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 ③ (INDICATES SPECIFIC CONSTRUCTION KEYNOTE)

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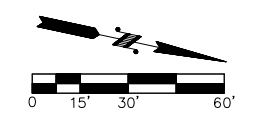
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FIELD GRADING LEGEND

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- 188 — NEW CONTOUR LINES
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BID SET

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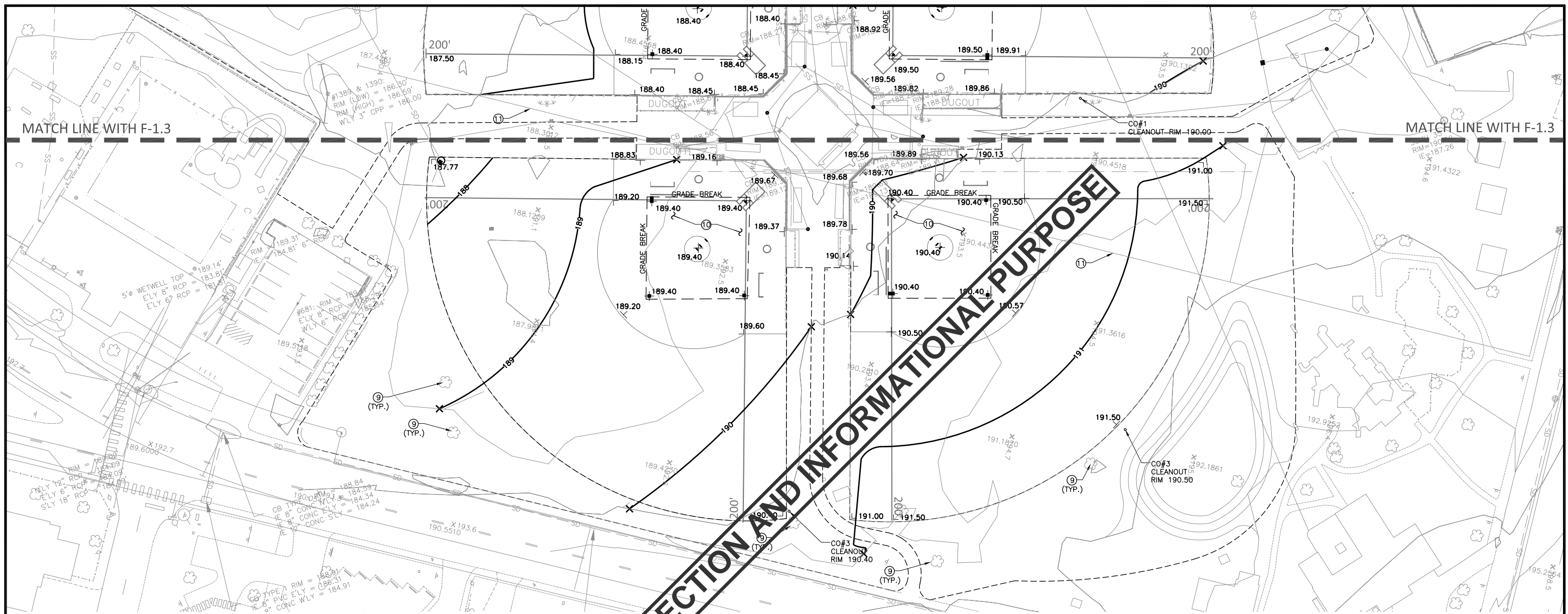
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CITY OF CHEHALIS
 CHEHALIS RECREATION PARK
F-1.4
 EAST FIELD GRADING PLAN (BASE BID)

JOB NUMBER
 16310

SHEET
 32
 OF
 49
 SHEETS



FIELD GRADING NOTES

NOTE LEGEND

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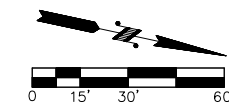
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- 188.40 + ROOT ELEVATION
- 188 — NEW CONTOUR LINES
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- — CHAINLINK FENCE AND CONCRETE CURB
- x — CHAINLINK FENCE



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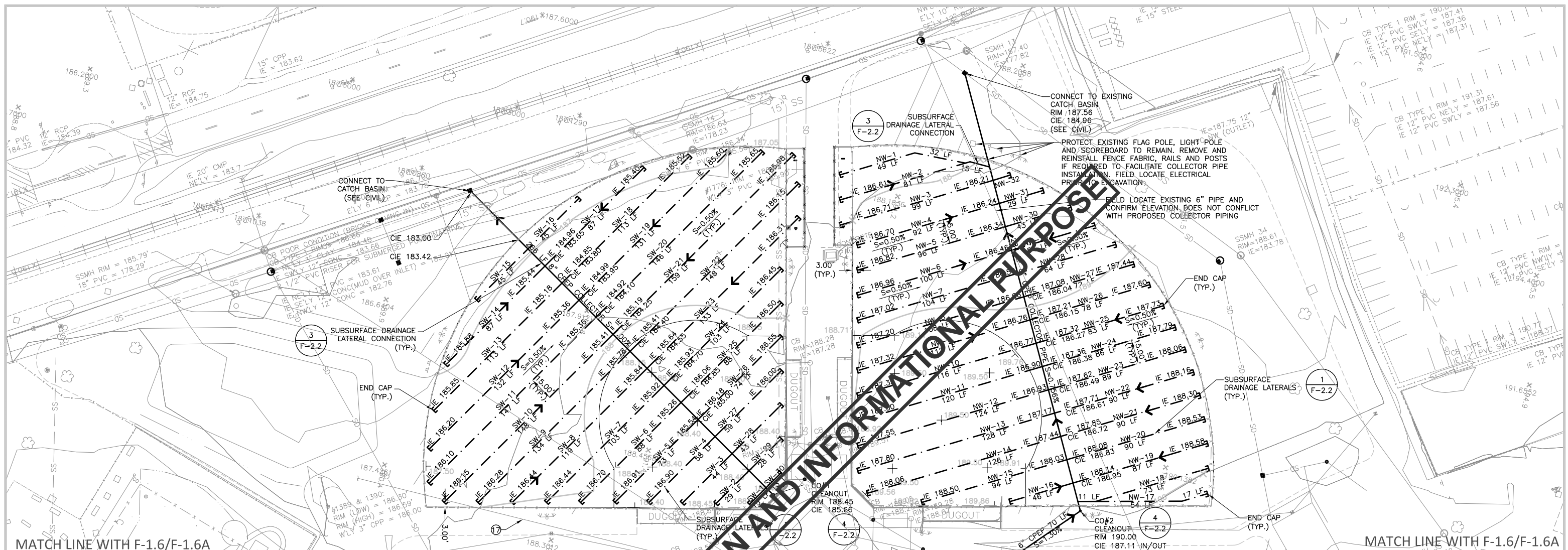


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CITY OF CHEHALIS
 1883
 Where Heart and History Shape Our Future

CITY OF CHEHALIS
 CHEHALIS RECREATION PARK
 F-1.4A
 EAST FIELD GRADING PLAN (ALT 2)

JOB NUMBER
 16310
 SHEET
 33
 OF
 49
 SHEETS



MATCH LINE WITH F-1.6/F-1.6A

MATCH LINE WITH F-1.6/F-1.6A

FIELD DRAINAGE LEGEND

- END CAP
- 4" PERF. CORR. POLY DRAIN TUBING
- 6" INFIELD PERIMETER DRAIN
- CPEP SUBSURFACE DRAINAGE COLLECTOR OR STORM DRAIN PIPE
- S=0.50% SLOPE
- ← FLOW DIRECTION
- IE 188.08 INVERT ELEVATION
- CIE 187.57 COLLECTOR INVERT ELEVATION
- EXISTING OR NEW CATCH BASIN INLET (CBI) (SEE CIVIL)
- CLEANOUT

FIELD DRAINAGE TABLE

| LATERAL | LENGTH | I.E. (CAP) | I.E. | C.I.E. |
|---------|--------|------------|--------|--------|
| SW-1 | 15 LF | 186.95 | 186.83 | 185.90 |
| SW-2 | 29 LF | 186.95 | 186.88 | 185.48 |
| SW-3 | 44 LF | 186.90 | 186.95 | 185.30 |
| SW-4 | 55 LF | 186.90 | 186.97 | 185.15 |
| SW-15 | 45 LF | 185.70 | 185.47 | 183.00 |
| SW-16 | 45 LF | 185.60 | 185.47 | 183.50 |
| SW-17 | 59 LF | 187.00 | 186.70 | 185.15 |
| SW-27 | 43 LF | 188.95 | 186.74 | 185.30 |
| SW-28 | 28 LF | 188.90 | 187.75 | 185.45 |
| SW-30 | 13 LF | 186.90 | 186.83 | 185.60 |

| LATERAL | LENGTH | I.E. (CAP) | I.E. | C.I.E. |
|---------|--------|------------|--------|--------|
| NW-1 | 81 LF | 186.61 | 186.21 | N/A |
| NW-2 | 81 LF | 186.61 | 186.13 | 185.39 |
| NW-3 | 81 LF | 186.71 | 186.24 | 185.50 |
| NW-4 | 81 LF | 186.70 | 186.26 | 185.61 |
| NW-5 | 81 LF | 186.82 | 186.36 | 185.72 |
| NW-6 | 95 LF | 187.02 | 186.48 | 185.83 |
| NW-7 | 46 LF | 188.29 | 188.06 | 186.96 |
| NW-17 | 82 LF | 187.85 | 187.44 | 187.06 |
| NW-18 | 73 LF | 188.40 | 188.03 | N/A |
| NW-28 | 64 LF | 187.40 | 187.08 | 185.93 |
| NW-29 | 54 LF | 187.25 | 186.98 | 185.61 |
| NW-30 | 43 LF | 187.06 | 186.85 | 185.70 |
| NW-31 | 29 LF | 186.90 | 186.76 | 185.59 |
| NW-32 | 11 LF | 186.75 | 186.70 | 185.47 |

DRAINAGE NOTES

- SUBSURFACE DRAINAGE COLLECTOR PIPE CAN BE INSTALLED PRIOR TO FINAL ACCEPTANCE OF THE FIELD SUBGRADE.
- COORDINATION: IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE IRRIGATION PIPING IS INSTALLED AT A SUFFICIENT DEPTH BELOW SUBGRADE BEFORE THE TRENCHING FOR THE SUBSURFACE DRAINAGE SYSTEMS TO AVOID CONFLICTS BETWEEN SYSTEMS.
- TRENCHING FOR THE SUBSURFACE DRAINAGE LATERALS SHALL NOT PROCEED UNTIL THE IRRIGATION SYSTEM PIPING HAS BEEN BACKFILLED AND COMPACTED AND THE FIELD SUBGRADE IS APPROVED BY ENGINEER.
- TRENCH EXCAVATION SHALL BE MADE TO THE ALIGNMENT, ELEVATION, GRADE AND SLOPE AS INDICATED ON THE DRAWINGS. TRENCHING SHALL BE ACCOMPLISHED UTILIZING EQUIPMENT WITH SLOPE AND DEPTH CONTROL, SUCH AS "LASER PLANE CONTROL SYSTEM", SO AS TO ENSURE ACCURACY IN THE BOTTOM OF THE TRENCH.
- NO HIGH POINTS ABOVE DESIGNATED INVERT OR CALCULATED TRENCH BOTTOM ELEVATION WILL BE PERMITTED. NO SLOUGHING OF SITE MATERIAL OR LOOSE EXCAVATED SOIL WILL BE PERMITTED TO REMAIN IN THE TRENCHES.
- SURPLUS EXCAVATED SOIL SHALL BE REMOVED FROM THE FIELD AREA PRIOR TO COMMENCING ON THE NEXT ADJACENT TRENCH. EXCAVATED MATERIAL MAY NOT REMAIN ON SUBGRADE.
- PROVIDE A SMOOTH, EVEN SUBGRADE AFTER REMOVAL OF THE TRENCH MATERIAL. SUBGRADE TO BE COMPACTED TO 95%. LEAVE NO LOOSE MATERIAL ON THE SUBGRADE.
- EXCAVATION BELOW INVERT GRADE MUST BE ESTABLISHED TO A DEPTH SO AS TO PROVIDE FOR SPECIFIED PLACEMENT OF PEA GRAVEL BEDDING AT BOTTOM OF PIPE ELEVATION PRIOR TO LAYING THE PERFORATED PIPE.
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- ALL TRENCHES TO HAVE BACKFILL MATERIAL "CROWNED" A MINIMUM OF 2" ABOVE SUBGRADE TO PROTECT FROM FOREIGN MATERIAL AND PROVIDE FOR EASE OF LOCATION IDENTIFICATION. CROWNS WITH FOREIGN MATERIAL CONTAMINATION SHALL BE REMOVED PRIOR TO PLACEMENT OF SAND (NATURAL TURF) OR BASE AGGREGATE (SYNTHETIC TURF).
- DURING PLACEMENT OF SPECIFIED TRENCH BACKFILL, PIPE MUST BE HELD IN PLACE TO PREVENT DISPLACEMENT AND PROVIDE FOR ACHIEVING SPECIFIED INVERT ELEVATION. DO NOT DAMAGE PIPE OR ALLOW PIPE TO BE DISPLACED BY PLACEMENT OF BACKFILL MATERIAL.
- CAP THE ENDS OF ALL LATERAL RUNS. ALL OPEN ENDS DURING CONSTRUCTION ARE TO BE TEMPORARILY CAPPED OR PLUGGED.
- CONNECTION OF LATERALS TO COLLECTOR DRAINS SHALL BE MADE WITH A COMBINATION REDUCING TEE AND REDUCING SADDLE TEE.
- NO TRUCKS OR EQUIPMENT WILL BE ALLOWED TO DRIVE OVER THE TOP OF THE TRENCHES EXCEPT TRACK-EQUIPPED MACHINERY UTILIZED IN SPREADING IMPORTED SAND (NATURAL TURF) OR BASE AGGREGATE (SYNTHETIC TURF) MATERIALS. BACKFILLED TRENCHES ARE TO BE STAKED AND FLAGGED 3' ABOVE GRADE AT MAXIMUM 30' SPACING FOR IDENTITY.
- COORDINATE SUBSURFACE DRAINAGE COLLECTOR LOCATION TO AVOID FENCE POST LOCATIONS.
- POTHOLE/LOCATE ALIGNMENT AND DEPTH OF EXISTING PIPING.

NOTE LEGEND

- 1 (INDICATES GENERAL CONSTRUCTION NOTE)
- 3 (INDICATES SPECIFIC CONSTRUCTION KEYNOTE)

DATE: 5-14-19 DRAWN BY: DMD CHECKED BY: RSH

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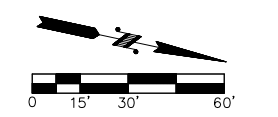
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CITY OF CHEHALIS
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 F-1.5
 WEST FIELDS DRAINAGE PLAN

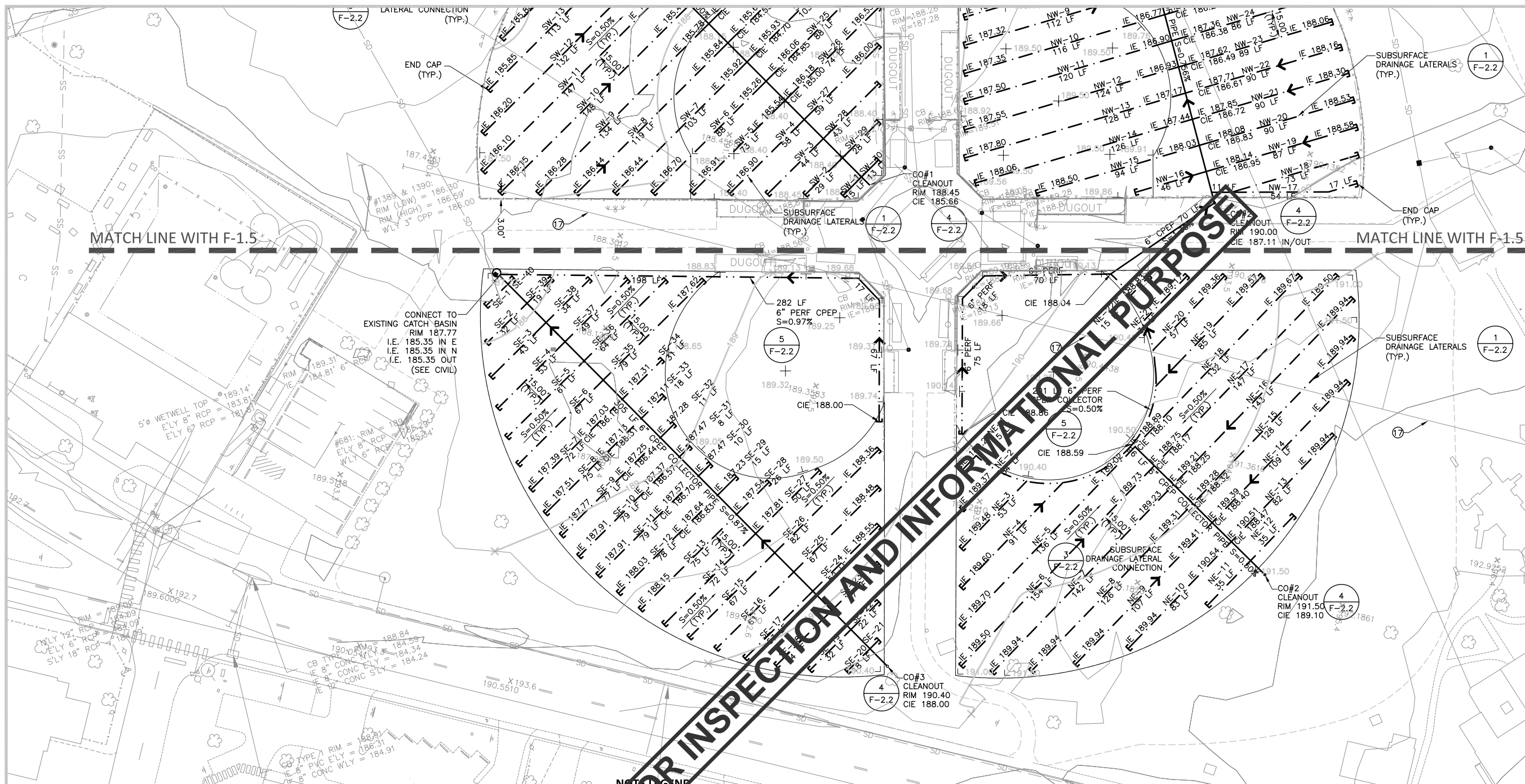
JOB NUMBER
16310
SHEET
34
OF
49
SHEETS

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BID SET FOR INSPECTION AND INFORMATIONAL PURPOSES



FIELD DRAINAGE TABLE

| LATERAL | LENGTH | I.E. (CAP) | I.E. | C.I.E. |
|---------|--------|------------|--------|--------|
| SE-1 | 17 LF | 186.42 | 186.33 | 185.40 |
| SE-2 | 32 LF | 186.60 | 186.44 | 185.53 |
| SE-3 | 43 LF | 186.78 | 186.56 | 185.66 |
| SE-4 | 53 LF | 186.96 | 186.69 | 185.79 |
| SE-5 | 61 LF | 187.12 | 186.81 | 185.92 |
| SE-6 | 67 LF | 187.25 | 186.91 | 186.05 |
| SE-13 | 75 LF | 188.15 | 187.77 | 186.96 |
| SE-14 | 72 LF | 188.25 | 187.89 | 187.09 |
| SE-15 | 67 LF | 188.37 | 188.03 | 187.22 |
| SE-16 | 61 LF | 188.47 | 188.15 | 187.35 |
| SE-17 | 53 LF | 188.62 | 188.35 | 187.48 |
| SE-18 | 44 LF | 188.71 | 188.49 | 187.61 |
| SE-19 | 32 LF | 188.81 | 188.82 | 187.74 |
| SE-20 | 18 LF | 188.91 | 188.81 | 188.86 |
| SE-21 | 7 LF | 188.90 | 188.86 | 188.86 |
| SE-22 | 22 LF | 188.77 | 188.66 | 187.74 |
| SE-23 | 37 LF | 188.64 | 188.45 | 187.61 |

| LATERAL | LENGTH | I.E. (CAP) | I.E. | C.I.E. |
|---------|--------|------------|--------|--------|
| SE-24 | 52 LF | 188.55 | 188.29 | 187.48 |
| SE-25 | 67 LF | 188.48 | 188.14 | 187.35 |
| SE-26 | 82 LF | 188.36 | 187.95 | 187.22 |
| SE-27 | 50 LF | 188.10 | 187.85 | 187.09 |
| SE-28 | 26 LF | 188.04 | 187.91 | 186.96 |
| SE-29 | 15 LF | 187.90 | 187.82 | 186.83 |
| SE-30 | 10 LF | 187.74 | 187.69 | 186.70 |
| SE-31 | 8 LF | 187.60 | 187.56 | 186.57 |
| SE-32 | 11 LF | 187.47 | 187.41 | 186.44 |
| SE-33 | 18 LF | 187.34 | 187.25 | 186.31 |
| SE-34 | 31 LF | 187.25 | 187.09 | 186.18 |
| SE-35 | 79 LF | 187.43 | 187.03 | 186.05 |
| SE-36 | 64 LF | 187.15 | 185.92 | 185.92 |
| SE-37 | 49 LF | 186.97 | 186.72 | 185.79 |
| SE-38 | 34 LF | 186.77 | 186.60 | 185.66 |
| SE-39 | 19 LF | 186.60 | 186.50 | 185.53 |
| SE-40 | 5 LF | 186.40 | 186.37 | 185.40 |

| LATERAL | LENGTH | I.E. (CAP) | I.E. | C.I.E. |
|---------|--------|------------|--------|--------|
| NE-1 | 11 LF | 189.27 | 189.22 | 189.04 |
| NE-2 | 34 LF | 189.37 | 189.20 | 188.20 |
| NE-3 | 53 LF | 189.48 | 189.22 | 188.28 |
| NE-4 | 91 LF | 189.60 | 189.15 | 188.38 |
| NE-5 | 136 LF | 189.70 | 189.02 | 188.60 |
| NE-11 | 32 LF | 190.10 | 189.94 | 189.05 |
| NE-12 | 37 LF | 190.10 | 189.94 | 189.05 |
| NE-18 | 135 LF | 189.67 | 189.00 | 188.60 |
| NE-19 | 85 LF | 189.57 | 189.14 | 188.39 |
| NE-20 | 57 LF | 189.47 | 189.18 | 188.28 |
| NE-21 | 34 LF | 189.36 | 189.19 | 188.19 |
| NE-22 | 15 LF | 189.17 | 189.09 | 188.11 |

DRAINAGE NOTES

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NOTE: (INDICATES GENERAL CONSTRUCTION NOTE)
 (INDICATES SPECIFIC CONSTRUCTION KEYNOTE)

FIELD DRAINAGE LEGEND

- END CAP
- 4" PERF. CORR. POLY DRAIN TUBING
- CPEP SUBSURFACE DRAINAGE COLLECTOR OR STORM DRAIN PIPE
- 6" INFIELD PERIMETER DRAIN
- SLOPE
- FLOW DIRECTION
- INVERT ELEVATION
- COLLECTOR INVERT ELEVATION
- EXISTING OR NEW CATCH BASIN INLET (CBI) (SEE CIVIL)
- CLEANOUT

DATE: 5-14-19 DRAWN BY: DMD CHECKED BY: RSH

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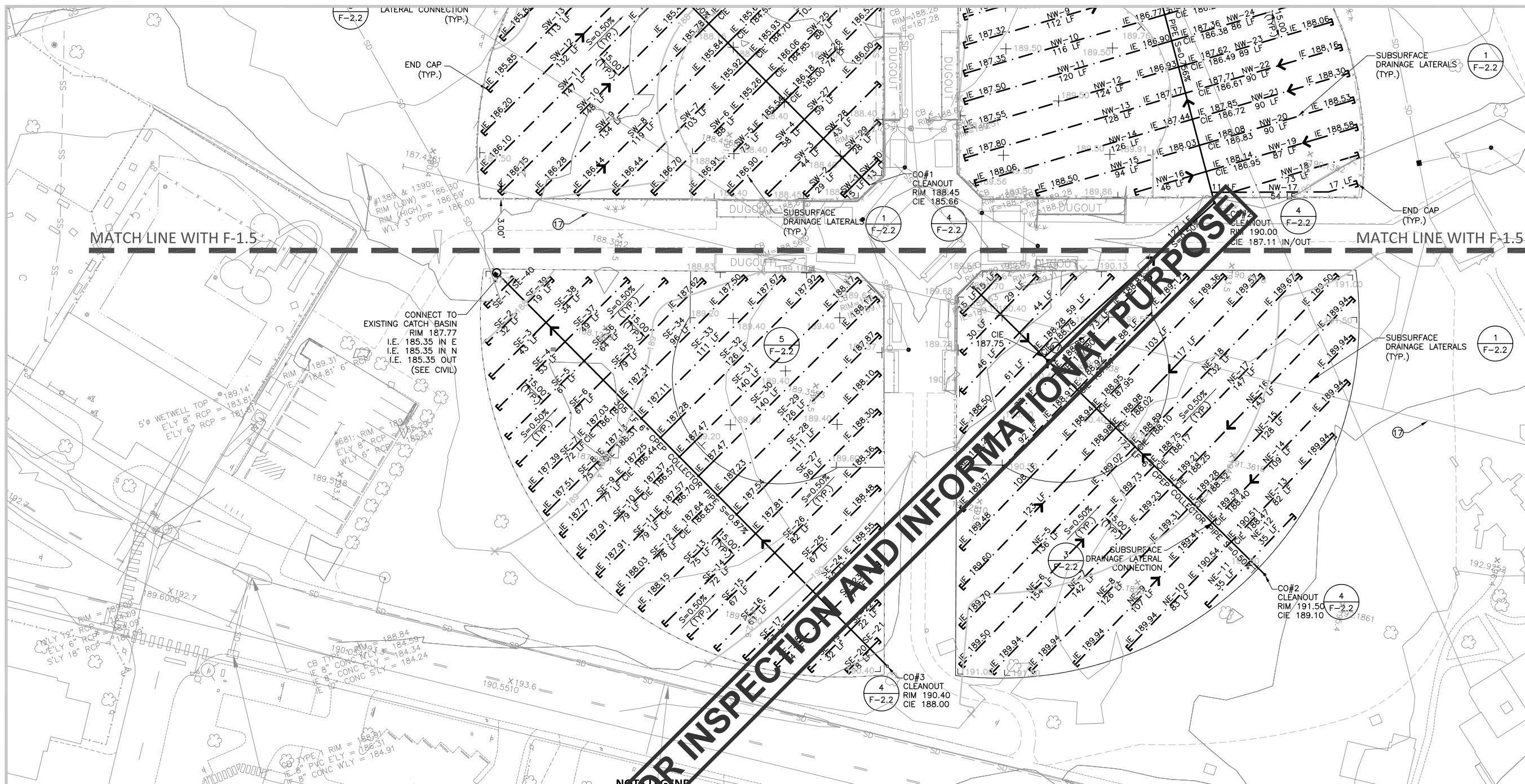
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CITY OF CHEHALIS
CHEHALIS RECREATION PARK
F-1.6

JOB NUMBER
16310

SHEET
35
OF
49
SHEETS

EAST FIELD DRAINAGE PLAN (BASE BID)



FIELD DRAINAGE TABLE

| LATERAL | LENGTH | I.E. (CAP) | I.E. | C.I.E. |
|---------|--------|------------|--------|--------|
| SE-1 | 22 LF | 186.42 | 186.33 | 185.40 |
| SE-2 | 32 LF | 186.60 | 186.44 | 185.53 |
| SE-3 | 43 LF | 186.78 | 186.56 | 185.66 |
| SE-4 | 53 LF | 186.96 | 186.69 | 185.79 |
| SE-5 | 61 LF | 187.12 | 186.81 | 185.92 |
| SE-6 | 67 LF | 187.25 | 186.91 | 186.05 |
| SE-13 | 75 LF | 188.15 | 187.77 | 186.96 |
| SE-14 | 72 LF | 188.25 | 187.89 | 187.09 |
| SE-15 | 67 LF | 188.37 | 188.03 | 187.22 |
| SE-16 | 61 LF | 188.47 | 188.15 | 187.35 |
| SE-17 | 53 LF | 188.62 | 188.35 | 187.48 |
| SE-18 | 44 LF | 188.71 | 188.49 | 187.61 |
| SE-19 | 32 LF | 188.81 | 188.82 | 187.74 |
| SE-20 | 18 LF | 188.91 | 188.81 | 188.86 |
| SE-21 | 7 LF | 188.90 | 188.86 | 188.86 |
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|---------|--------|------------|--------|--------|
| SE-24 | 52 LF | 188.55 | 188.29 | 187.48 |
| SE-25 | 67 LF | 188.48 | 188.14 | 187.35 |
| SE-26 | 82 LF | 188.36 | 187.95 | 187.22 |
| SE-27 | 50 LF | 188.10 | 187.85 | 187.09 |
| SE-28 | 26 LF | 188.04 | 187.91 | 186.96 |
| SE-29 | 15 LF | 187.90 | 187.82 | 186.83 |
| SE-30 | 10 LF | 187.74 | 187.69 | 186.70 |
| SE-31 | 8 LF | 187.60 | 187.56 | 186.57 |
| SE-32 | 11 LF | 187.47 | 187.41 | 186.44 |
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| SE-38 | 34 LF | 186.77 | 186.60 | 185.66 |
| SE-39 | 19 LF | 186.60 | 186.50 | 185.53 |
| SE-40 | 5 LF | 186.40 | 186.37 | 185.40 |

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|---------|--------|------------|--------|--------|
| NE-1 | 15 LF | 189.27 | 189.12 | 189.04 |
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NOTE: (INDICATES GENERAL CONSTRUCTION NOTE)
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- END CAP
- - - 4" PERF. CORR. POLY DRAIN TUBING
- CPEP SUBSURFACE DRAINAGE COLLECTOR OR STORM DRAIN PIPE
- · - · 6" INFIELD PERIMETER DRAIN
- S=0.50% SLOPE
- ← FLOW DIRECTION
- I.E. 189.94 INVERT ELEVATION
- CIE 188.97 COLLECTOR INVERT ELEVATION
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- CLEANOUT

DATE: 5-14-19 DRAWN BY: DMD CHECKED BY: RSH

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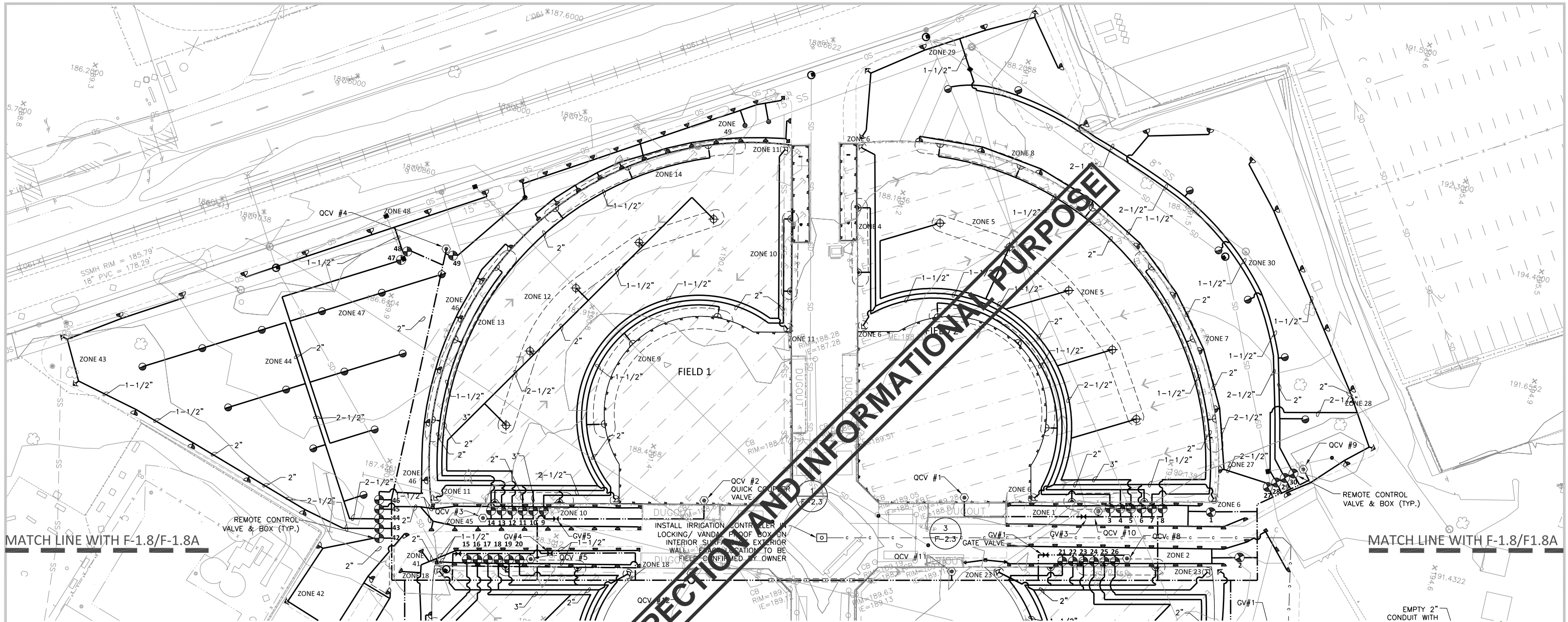
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 F-1.6A
 EAST FIELD DRAINAGE PLAN (ALT 2)

JOB NUMBER: 16310
 SHEET 36 OF 49 SHEETS

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MATCH LINE WITH F-1.8/F-1.8A

MATCH LINE WITH F-1.8/F1.8A

IRRIGATION NOTES

SEE IRRIGATION NOTES ON SHEET F-1.9

- NOTE LEGEND**
- 1. (INDICATES GENERAL CONSTRUCTION NOTE)
 - ③ (INDICATES SPECIFIC CONSTRUCTION KEYNOTE)

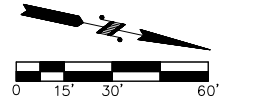
IRRIGATION LEGEND

SEE LEGEND ON SHEET F-1.9

EMPTY 2" CONDUIT WITH



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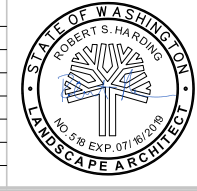


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DATE: 5-14-19 DRAWN BY: DMD CHECKED BY: RSH

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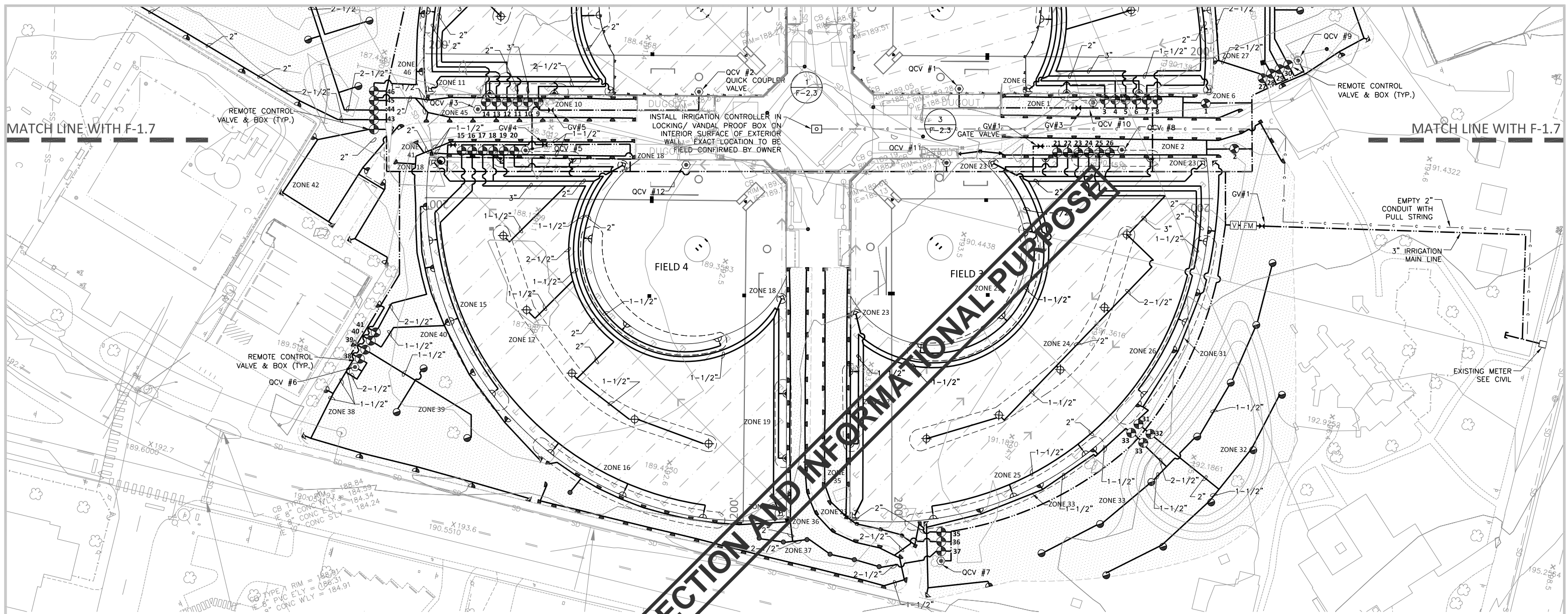


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CITY OF CHEHALIS
 CHEHALIS RECREATION PARK
F-1.7
 WEST FIELD IRRIGATION PLAN

JOB NUMBER
 16310
 SHEET
 37
 OF
 49
 SHEETS



MATCH LINE WITH F-1.7

MATCH LINE WITH F-1.7

IRRIGATION NOTES

SEE IRRIGATION NOTES ON SHEET F-1.9

- NOTE LEGEND**
- 1. (INDICATES GENERAL CONSTRUCTION NOTE)
 - ③ (INDICATES SPECIFIC CONSTRUCTION KEYNOTE)

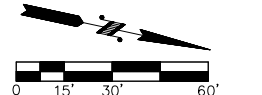
IRRIGATION LEGEND

SEE LEGEND ON SHEET F-1.9

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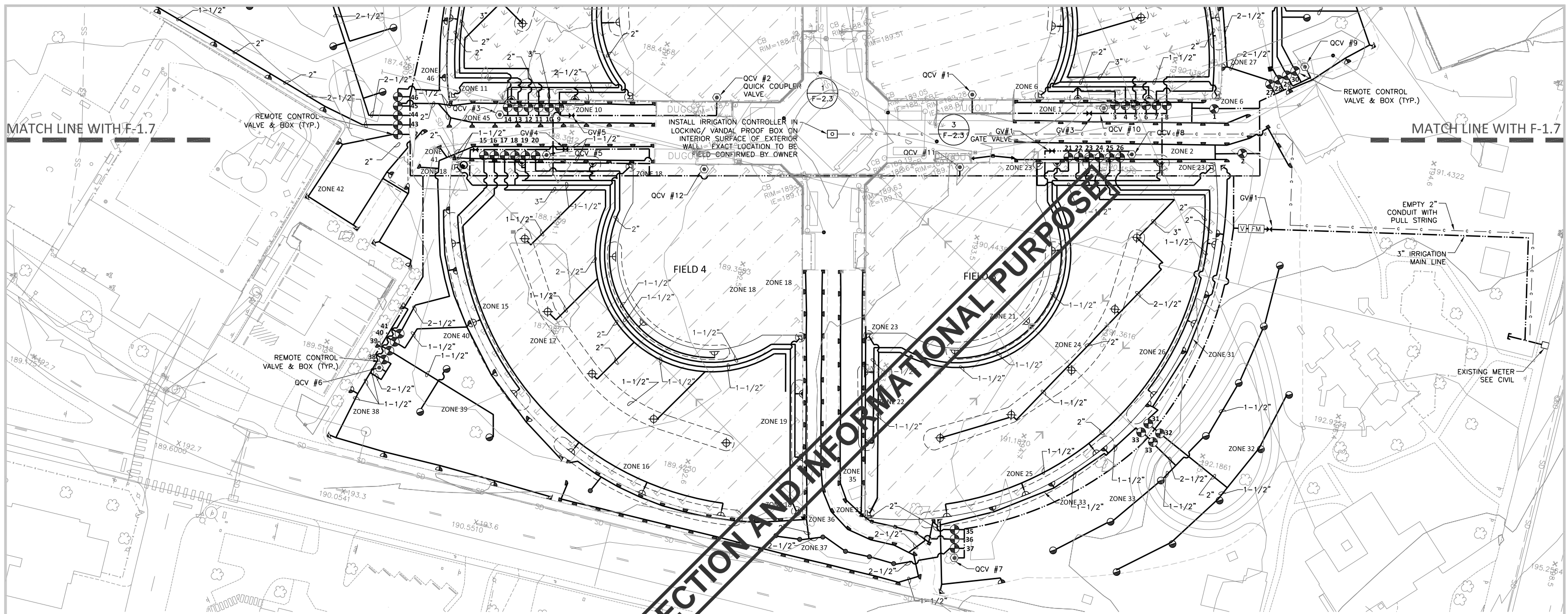
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CITY OF CHEHALIS
 CHEHALIS RECREATION PARK
F-1.8
 EAST FIELD IRRIGATION PLAN (BASE BID)

JOB NUMBER
 16310

SHEET
 38
 OF
 49
 SHEETS



IRRIGATION NOTES

SEE IRRIGATION NOTES ON SHEET F-1.9

- NOTE LEGEND**
- 1. (INDICATES GENERAL CONSTRUCTION NOTE)
 - ③ (INDICATES SPECIFIC CONSTRUCTION KEYNOTE)

IRRIGATION LEGEND

SEE LEGEND ON SHEET F-1.9

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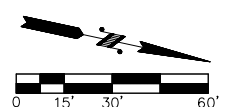
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CITY OF CHEHALIS
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 F-1.8A
 EAST FIELD IRRIGATION PLAN (ALT 2)

JOB NUMBER
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SHEET
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 OF
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 SHEETS



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IRRIGATION NOTES

NOTE LEGEND

- 1. (INDICATES GENERAL CONSTRUCTION NOTE)
- ③ (INDICATES SPECIFIC CONSTRUCTION KEYNOTE)

1. COORDINATE QUICK COUPLING VALVE LOCATIONS TO CORRESPOND TO THE EDGE OF FIELD, PITCHER'S PLATES AND DUGOUTS AS APPLICABLE. EXACT LOCATIONS TO BE FIELD CONFIRMED BY ENGINEER OR CITY REPRESENTATIVE.
2. THE CONTRACTOR SHALL LOCATE EXISTING ELECTRICAL AND COMMUNICATION CONDUCTORS IN THE WORK AREAS. VERIFY DEPTH WITH THE ENGINEER TO TRENCHING FOR THE DRAINAGE AND WATER SYSTEMS.
3. COORDINATE IRRIGATION PIPING TO AVOID UNDERGROUND UTILITIES.
4. COORDINATE IRRIGATION PIPING AND FENCE POSTS TO AVOID CONFLICT.
5. SPRINKLER HEADS IN THE NATURAL TURF AREAS SHALL BE SET FLUSH WITH FINISH GRADE. NO SETTLEMENT AROUND THE SPRINKLER HEADS SHALL BE TOLERATED.
6. ROTARY SPRINKLER HEADS SHALL BE LOCATED 6 INCHES MAXIMUM AND 3 INCHES MINIMUM FROM THE EDGE OF PAVING (CONCRETE, ASPHALT OR CURBING) IN THE NATURAL TURF.
7. SPRINKLER HEADS IN TURF AREAS SHALL BE LOCATED 3 INCHES MAXIMUM AND 1 INCH MINIMUM FROM THE FENCING, CONCRETE CURBING & CONCRETE SIDEWALKS.
8. ALL LATERAL IRRIGATION PIPING WILL BE 1-1/4" UNLESS OTHERWISE NOTED ON PLAN.
9. ALL IRRIGATION MAINLINES, LATERAL LINES, ELECTRICAL AND VALVE CONTROL WIRES CROSSING UNDER SIDEWALKS, AND ASPHALT PAVING SHALL BE SLEEVED. SLEEVES SHALL BE PLACED UNDER ALL DRIVEWAYS, PAVED AREAS, WALKS AISLES, ETC. WHERE IRRIGATION LATERAL, MAINLINE AND CONTROL WIRES CROSS PAVED SURFACES. SLEEVES SHALL BE PVC SCH 40. BURY MINIMUM 24" DEEP. MINIMUM DISTANCE PAST EDGE OF PAVED SURFACE SHALL BE 24". WATER AND WIRE SHALL NOT BE PLACED IN THE SAME SLEEVE. SLEEVES SHALL BE MINIMUM TWICE THE DIAMETER OF THE PIPE BEING SLEEVED. WIRE SLEEVES TO BE 2". SLEEVES ARE REQUIRED, WHETHER OR NOT INDICATED ON PLAN.
10. RUN IRRIGATION VALVE CONTROLLER WIRE FROM IRRIGATION CONTROLLER CABINET TO EACH INDIVIDUAL IRRIGATION CONTROL VALVE. RUN FOUR EXTRA CONTROL WIRES FROM CONTROLLER TO VALVE GROUPINGS FOR FUTURE REPAIR.
11. IRRIGATION MAINLINE, REMOTE CONTROL VALVES, AND QUICK COUPLING VALVES MAY BE SHOWN IN PAVED SURFACES FOR GRAPHIC CLARITY ONLY. INSTALL MAINLINE DOWN WITHIN PLANTING AREAS.
12. ALL IRRIGATION REMOTE CONTROL VALVES SHALL BE 2" UNLESS OTHERWISE NOTED.
13. THE BACKFLOW PREVENTION DEVICE IS EXISTING. COORDINATE WITH CITY STAFF TO ISOLATE MAIN LINE DURING CONNECTION TO EXISTING MAIN LINE. EXISTING IRRIGATION SYSTEMS, WHETHER INDICATED OR NOT ON PLAN SHALL BE PROTECTED FROM DAMAGE, EXCEPT WITHIN WORK AREAS WHERE DEMOLITION IS REQUIRED.
14. POP UP RISER HEIGHT IN SEEDED / TURF AREAS TO BE 4".
15. IRRIGATION SYSTEM LAYOUT: DUE TO THE SCALE OF THE DRAWINGS, THE CONTRACTOR SHALL BE AWARE THAT MINOR ADJUSTMENTS TO THE IRRIGATION SYSTEM MAY BE NECESSARY TO PROVIDE PROPER COVERAGE. THESE ADJUSTMENTS COULD INCLUDE NOZZLE CHANGES AND/OR ADDITION OR DELETION OF INDIVIDUAL HEADS TO COMPENSATE FOR CHANGES MADE ON THE SITE. THE CONTRACTOR SHALL LOCATE ALL VALVES, LATERAL LINE AND MAINLINE IN PLANTING AREAS. FURTHERMORE THE IRRIGATION DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHEREVER POSSIBLE. THE CONTRACTOR SHALL LOCATE ALL VALVES IN SHRUB, GROUNDCOVER OR TURF AREAS.
17. THE IRRIGATION SYSTEM DESIGN IS BASED ON A MINIMUM OPERATING PRESSURE OF 60 PSI AND MAXIMUM FLOW DEMAND OF 100 GPM. STATIC PRESSURE AT THE EXISTING MAIN LINE IS 85 PSI, PER CITY STAFF. THE CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION, AND PROVIDE THROUGH THE SUBMITTAL PROCESS ANY PIPE SIZING MODIFICATIONS THAT MAY BE REQUIRED.
18. COORDINATE LOCATION OF CONDUCTORS AND CONDUIT FROM OUTSIDE BUILDING ENVELOPE INTO IRRIGATION CONTROLLERS WITH ELECTRICAL CONTRACTOR.

IRRIGATION VALVE SCHEDULE

| | | | | | |
|---------------|---------------|---------------|---------------|---------------|---------------|
| 1 2" 44.1 | 2 2" 35.2 | 3 2" 63.9 | 4 2" 62.8 | 5 2" 78.5 | 6 2" 48.8 |
| 7 2" 63.9 | 8 2" 63.9 | 9 2" 63.9 | 10 2" 62.8 | 11 2" 48.8 | 12 2" 78.5 |
| 13 2" 63.9 | 14 2" 63.9 | 15 2" 63.9 | 16 2" 63.9 | 17 2" 78.5 | 18 2" 48.8 |
| 19 2" 62.8 | 20 2" 63.9 | 21 2" 63.9 | 22 2" 62.8 | 23 2" 48.8 | 24 2" 78.5 |
| 25 2" 63.9 | 26 2" 63.9 | 27 2" 66.6 | 28 2" 54.8 | 29 2" 55.2 | 30 2" 59.2 |
| 31 2" 30.3 | 32 2" 37.0 | 33 2" 36.6 | 34 2" 51.1 | 35 2" 43.4 | 36 2" 61.1 |
| 37 2" 65.7 | 38 2" 51.2 | 39 2" 21.9 | 40 2" 43.9 | 41 2" 34.2 | 42 2" 47.6 |
| 43 2" 51.2 | 44 2" 51.1 | 45 2" 34.2 | 46 2" 43.8 | 47 2" 43.1 | 48 2" 36.5 |
| | | | | | 49 2" 59.2 |

IRRIGATION LEGEND

- REMOTE CONTROL VALVE IN INDIVIDUAL BOX
 - SCH 40 PVC IRRIGATION MAIN LINE
 - SCH 40 PVC PIPE (LATERAL)
 - IRRIGATION SLEEVE
 - 2" CONDUIT
 - PERIMETER RESTORATION AND IRRIGATION AREA
 - IRRIGATED OUTFIELD AREA
 - 2" GATE VALVE AND BOX
 - 54 STATION AUTOMATIC CONTROLLER EXISTING METER
 - 1" QUICK COUPLING VALVE AND BOX
 - MASTER VALVE
 - FLOW METER
- FIELD ROTARY SPRINKLER HEADS:**
- ADJUSTABLE ROTARY POP UP SPRINKLER, 60 PSI, 50' RADIUS, 12.2 GPM, HUNTER 1-40-06-SS-10 OR APPROVED EQUAL
 - ADJUSTABLE ROTARY POP UP SPRINKLER, 60 PSI, 62' RADIUS, 21.3 GPM, HUNTER 1-40-06-SS-23 OR APPROVED EQUAL
 - ADJUSTABLE ROTARY POP UP SPRINKLER, 60 PSI, 55' RADIUS, 15.7 GPM, HUNTER 1-40-06-SS-15 OR APPROVED EQUAL
 - 360° ROTARY POP UP SPRINKLER, 60 PSI, 55' RADIUS, 15.7 GPM, HUNTER 1-40-06-SS-15 OR APPROVED EQUAL
- POP UP SPRINKLER HUNTER FULL CIRCLE 1-20-06-SS-6.0 (BLUE) 65 PSI, 44' RADIUS, 7.30 GPM
 - POP UP SPRINKLER HUNTER ADJUSTABLE ARC 1-20-06-SS-6.0 (BLUE) 65 PSI, 44' RADIUS, 7.30 GPM
 - POP UP SPRINKLER HUNTER ADJUSTABLE ARC 1-20-06-SS-3.0 (BLUE) 65 PSI, 39' RADIUS, 3.70 GPM

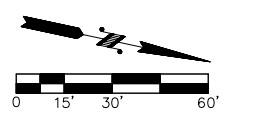
- HUNTER ICV-201G-AS-ADJ
- 3" - UNLESS NOTED OTHERWISE
- 1-1/4" UNLESS OTHERWISE NOTED
- PVC SCH 40
- ZONE NUMBER-TYPE
- DESIGN FLOW @ 60PSI SYSTEM PRESSURE
- AUTOMATIC VALVE SIZE
- M AND H 4067-07 OR APPROVED EQUAL
- HUNTER ICC2-PED-SS OR APPROVED EQUAL. MODULES AS NEEDED FOR ZONES UTILIZED. INSTALL ON INTERIOR SURFACE OF EXTERIOR WALL AS DIRECTED BY OWNER
- RAINBIRD 44LRC W/ LOCKING VINYL LID
- MASTER VALVE
- FLOW METER

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- TURF SPRINKLER HEADS:**
- SIDE STRIP SPRAY 30 PSI, 1.21 GPM RAINBIRD 1800-SAM-PRS
 - END STRIP SPRAY 30 PSI, 0.61 GPM RAINBIRD 1800-SAM-PRS
 - FULL POP UP SPRINKLER 30 PSI, 15' RADIUS, 3.70 GPM RAINBIRD 1800-SAM-PRS
 - HALF POP UP SPRINKLER 30 PSI, 15' RADIUS, 1.85 GPM RAINBIRD 1800-SAM-PRS
 - QUARTER POP UP SPRINKLER 30 PSI, 15' RADIUS, .92 GPM RAINBIRD 1800-SAM-PRS
 - VARIABLE ARC POP UP SPRINKLER 30 PSI, 15' RADIUS, VAN NOZZLE RAINBIRD 1800-SAM-PRS
 - THREE-QUARTER POP UP SPRINKLER 30 PSI, 15' RADIUS, 2.78 GPM RAINBIRD 1800-SAM-PRS



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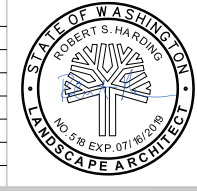


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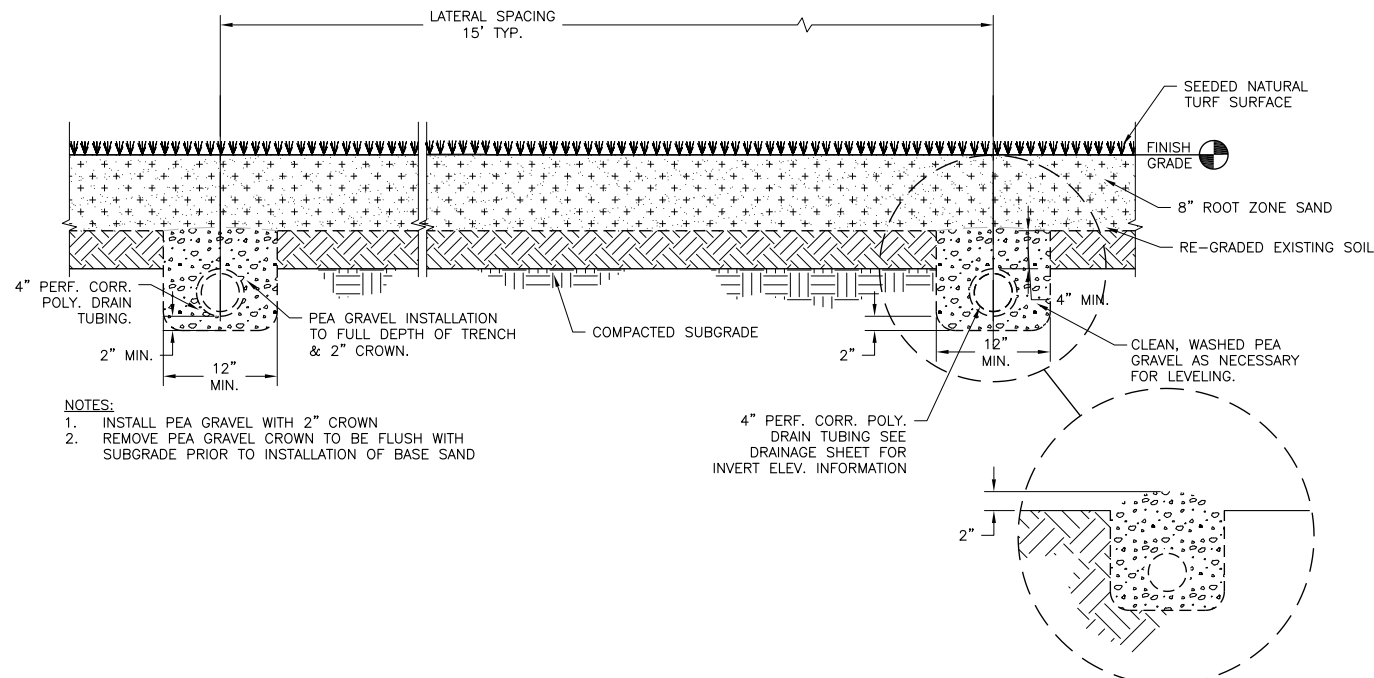
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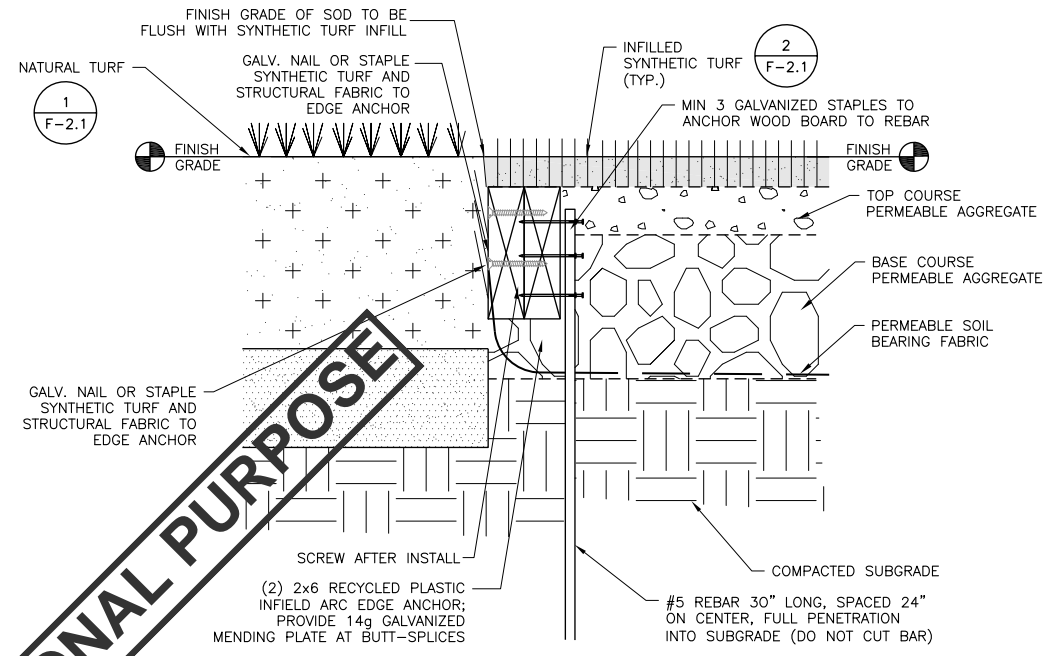
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F-1.9
 IRRIGATION NOTES AND LEGEND

JOB NUMBER
 16310

SHEET
 40
 OF
 49
 SHEETS

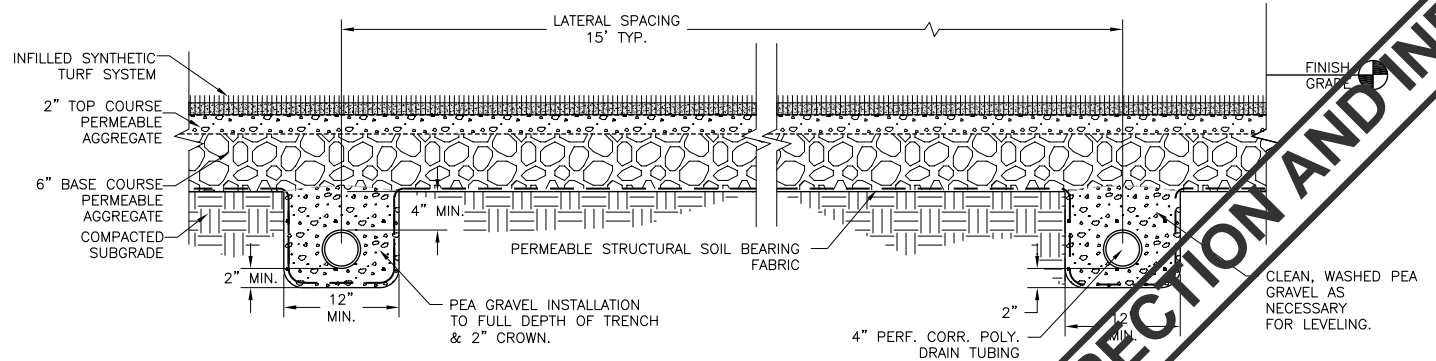


1 SAND BASED NATURAL TURF FIELD SECTION
F-2.1 NOT TO SCALE



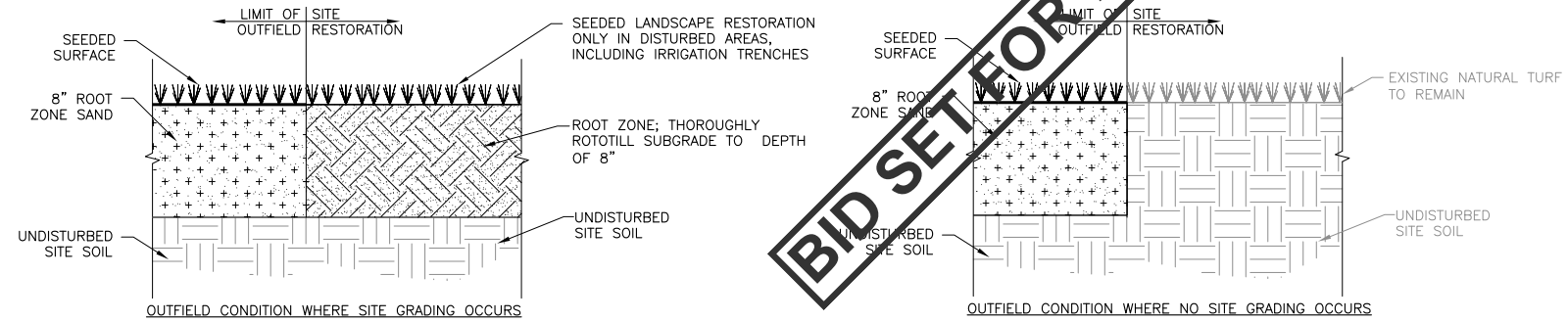
2 SYNTHETIC TURF INFIELD SECTION
F-2.1 NOT TO SCALE

SYNTHETIC TURF EDGE ANCHOR AT NATURAL TURF
F-2.1 NOT TO SCALE



3 SAND BASED SEEDING INFIELD SECTION
F-2.1 NOT TO SCALE

5 INFIELD SOIL AND NATURAL TURF (EASTERN FIELDS BASE BID)
F-2.1 NOT TO SCALE



4 EDGE OUTFIELD RESTORATION
F-2.1 NOT TO SCALE

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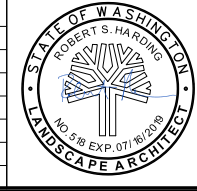
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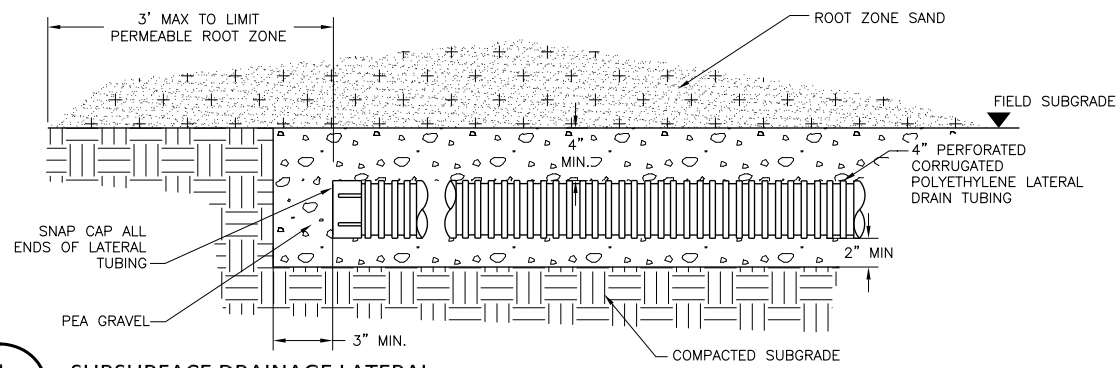
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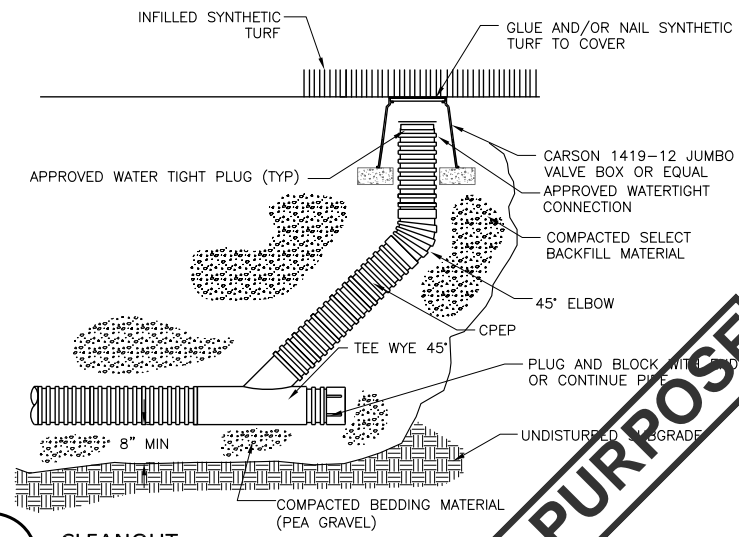
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F-2.1
TYPICAL SITE SECTIONS

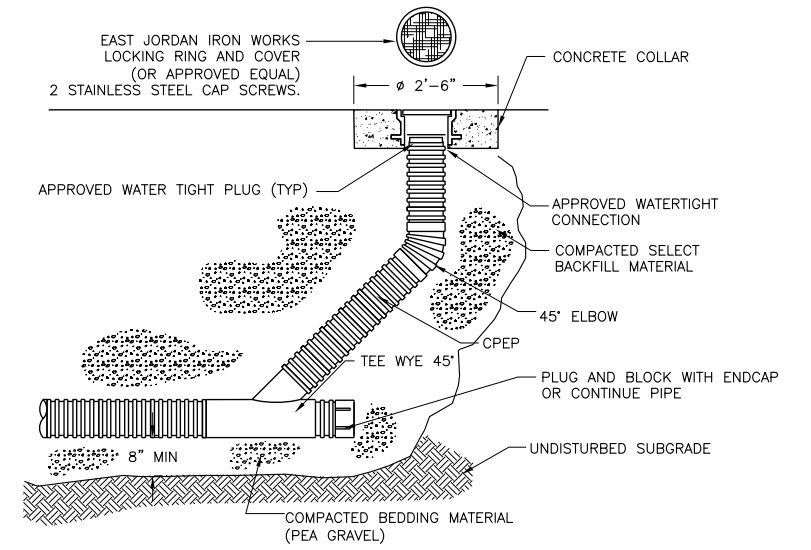
SHEET 41 OF 49 SHEETS



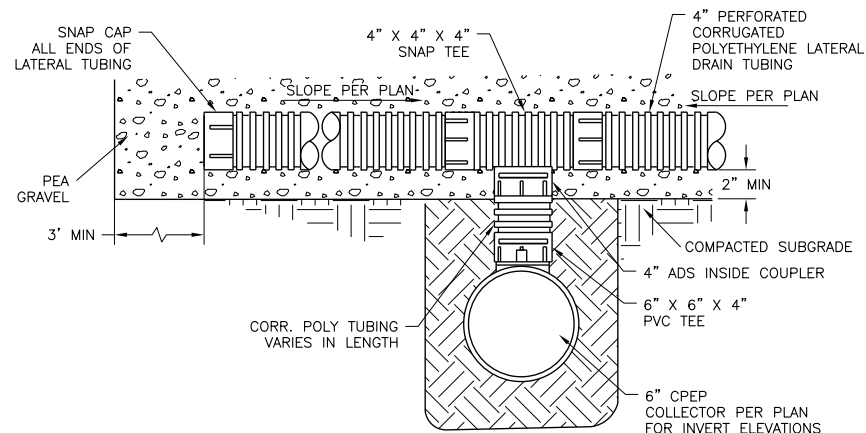
1 SUBSURFACE DRAINAGE LATERAL
F-2.2 NOT TO SCALE



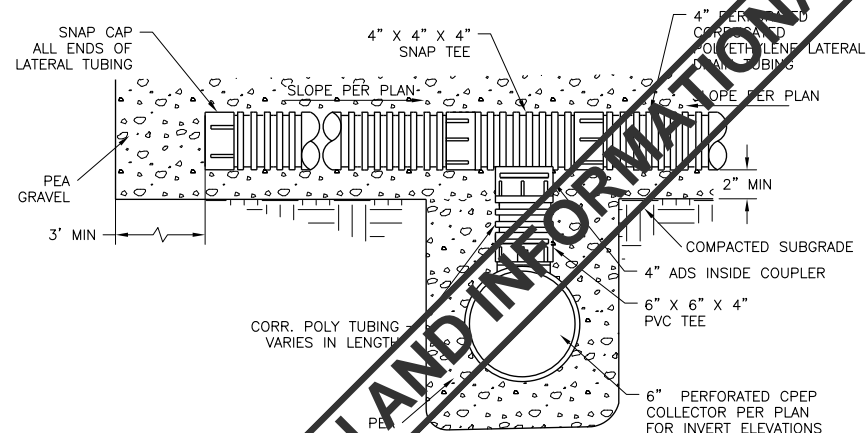
4 CLEANOUT
F-2.2 NOT TO SCALE



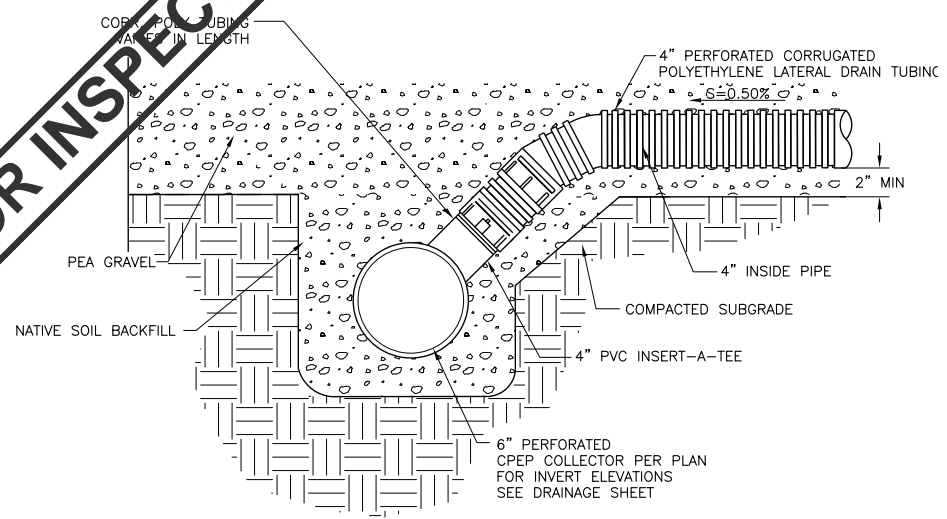
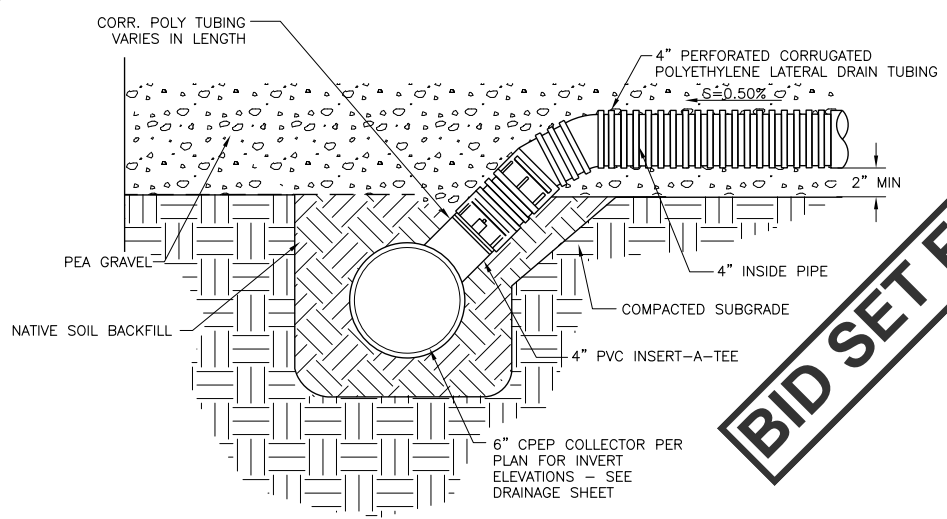
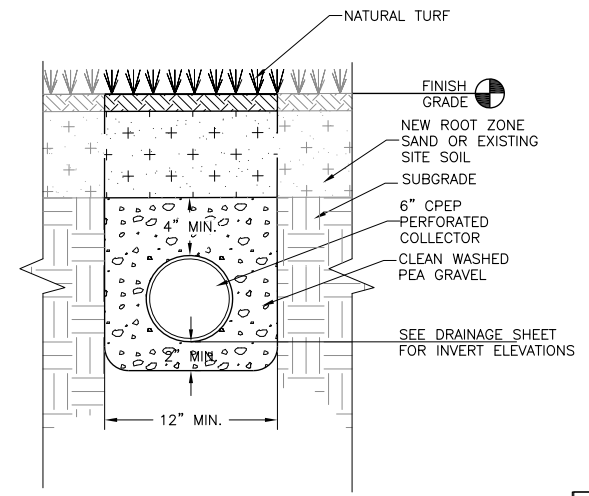
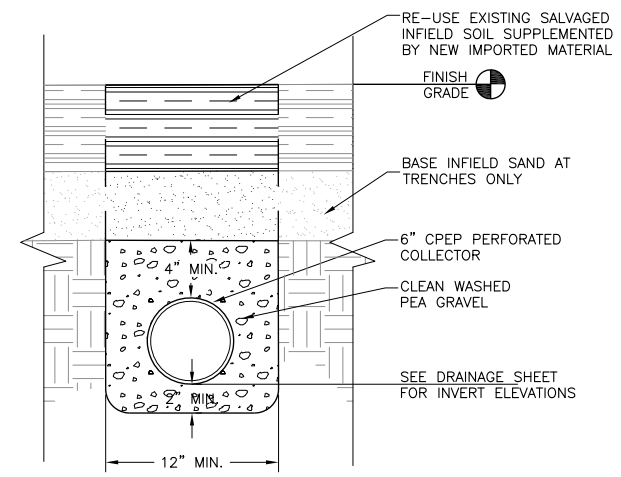
5 INFIELD PERIMETER DRAIN (BASE BID)
F-2.2 NOT TO SCALE



2 SUBSURFACE DRAINAGE DROP-TEE
F-2.2 NOT TO SCALE



3 SUBSURFACE DRAINAGE SIDE INLET DROP CONNECTION
F-2.2 NOT TO SCALE



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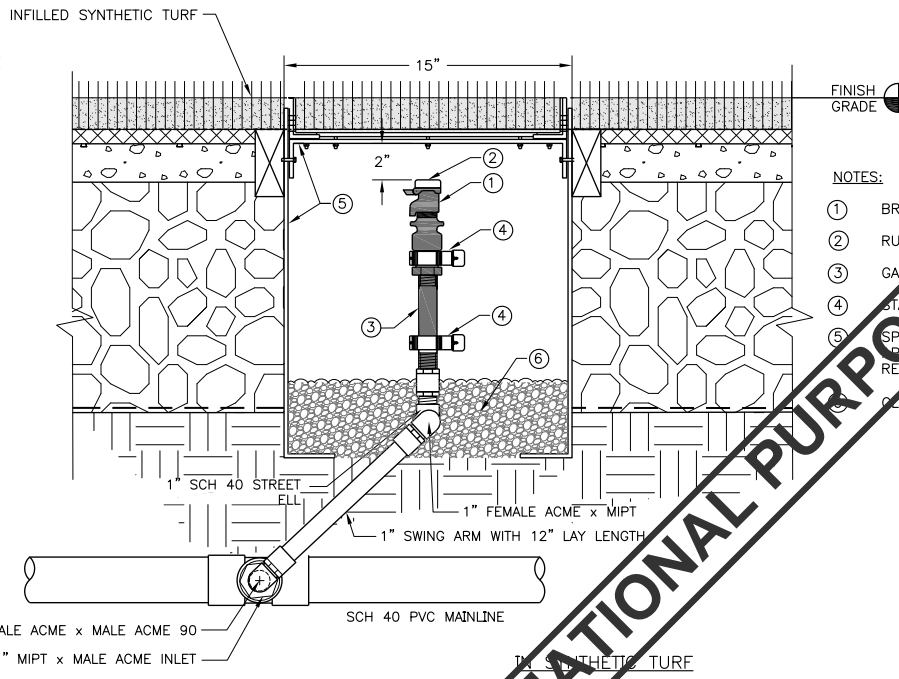
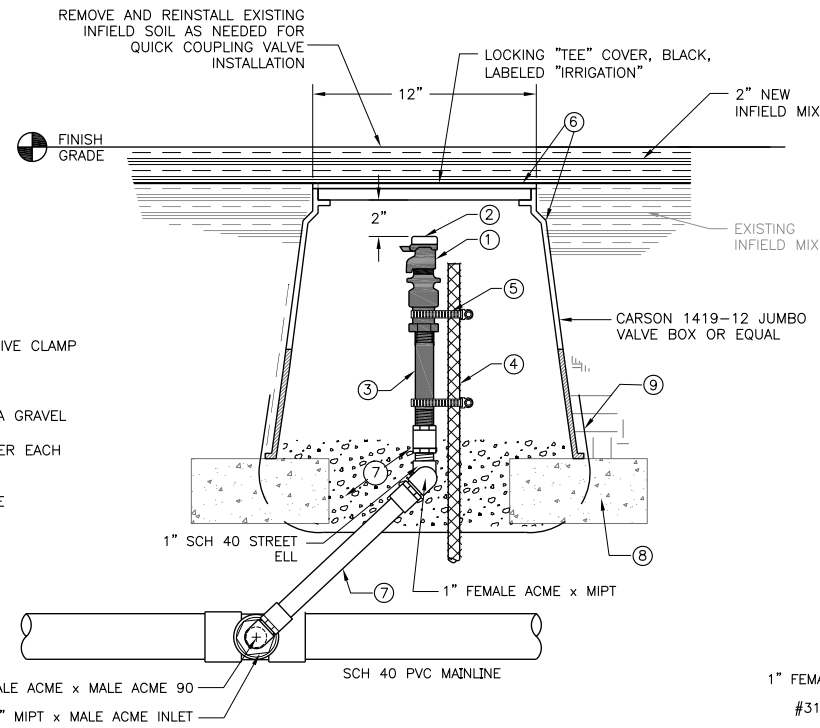
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CHEHALIS RECREATION PARK

F-2.2
DRAINAGE DETAILS

SHEET 42 OF 49 SHEETS

NOTES:

- ① BRASS QUICK COUPLING VALVE
- ② RUBBER CAP
- ③ GALVANIZED NIPPLE
- ④ #5 REBAR 36" DEPTH
- ⑤ STAINLESS STEEL BAND WORM DRIVE CLAMP
- ⑥ PLASTIC VALVE BOX, MIN. 12"φ
- ⑦ MIN. 6" DEPTH 5/8" WASHED PEA GRAVEL
- ⑧ PRE-CAST CONCRETE BRICK UNDER EACH CORNER OF THE VALVE BOX
- ⑨ 4 OZ/SY NON-WOVEN GEOTEXTILE

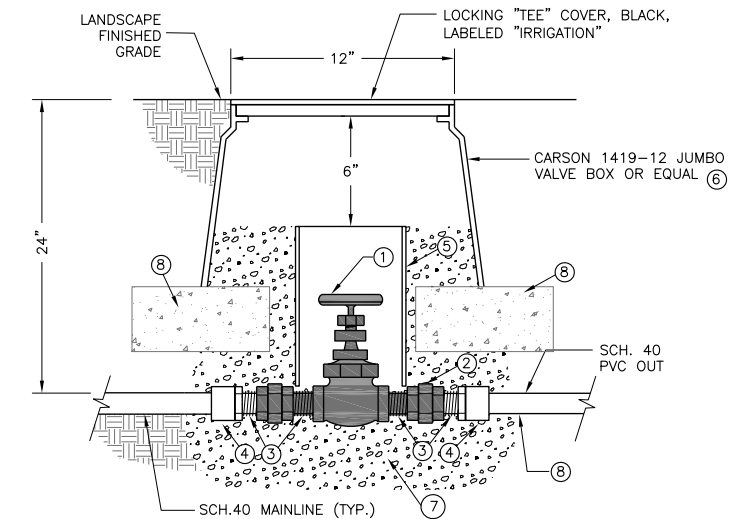


NOTES:

- ① BRASS QUICK COUPLING VALVE
- ② RUBBER CAP
- ③ GALVANIZED NIPPLE
- ④ STAINLESS STEEL CLAMP
- ⑤ SPORTSFIELD SPECIALTIES TURFCOOL OR APPROVED EQUAL VALVE BOX WITH REMOVABLE LID
- ⑥ OCEAN PEA GRAVEL 4"-6" DEPTH

NOTES:

- ① 3-4" BRASS GATE VALVE, THREADED INLET/OUTLET, SIZED PER THE DRAWINGS OR ASSOCIATED INLET-SIDE PIPE
- ② BRASS UNION
- ③ BRASS NIPPLE
- ④ SCHEDULE 40- PVC BUSHING, SxT
- ⑤ 6" PVC RISER PIPE
- ⑥ PLASTIC VALVE BOX, MIN. 12"φ
- ⑦ MIN. 6" DEPTH 5/8" WASHED PEA GRAVEL
- ⑧ PRE-CAST CONCRETE BRICK UNDER EACH CORNER OF THE VALVE BOX

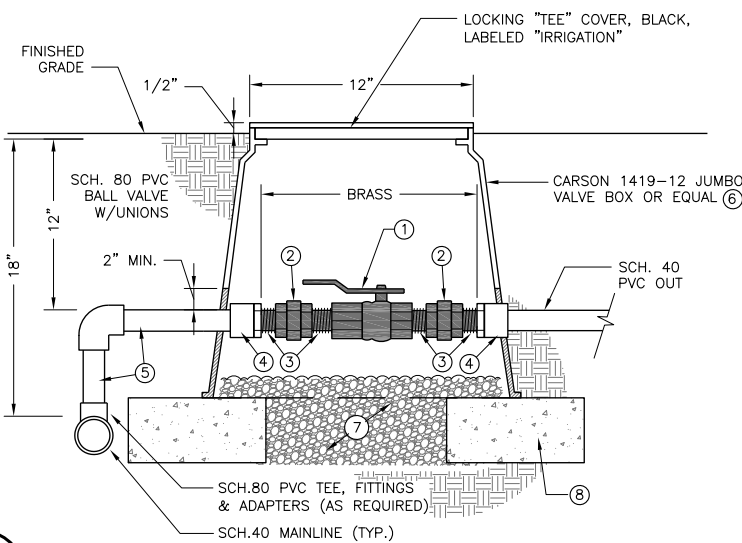


1 QUICK COUPLING VALVE & BOXES

F-2.3 NOT TO SCALE

3 GATE VALVE & BOX

F-2.3 NOT TO SCALE

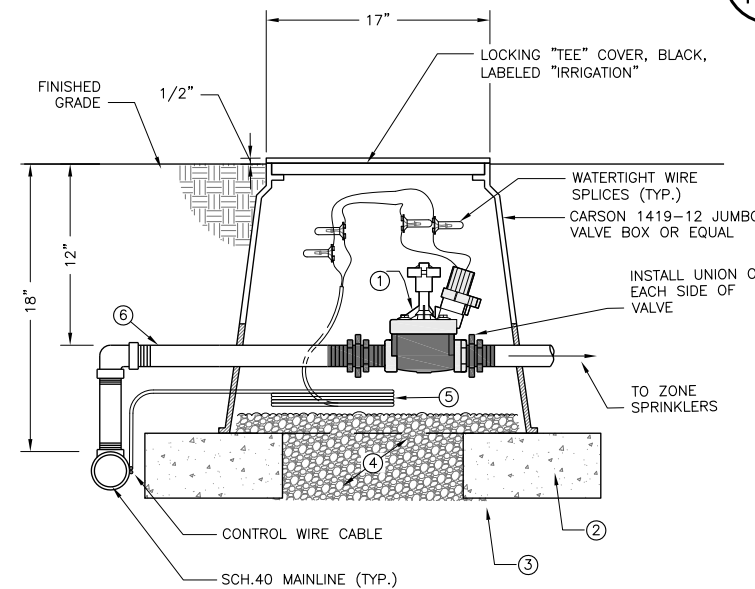


NOTES:

- ① BRASS BALL VALVE, THREADED INLET/OUTLET, SIZED PER THE DRAWINGS OR ASSOCIATED INLET-SIDE PIPE
- ② BRASS UNION
- ③ BRASS NIPPLE
- ④ SCHEDULE 80- PVC BUSHING, SxT
- ⑤ MIN. 12" HORIZONTAL GENERAL OFFSET FROM MAINLINE
- ⑥ PLASTIC VALVE BOX, MIN. 12"
- ⑦ MIN. 6" DEPTH 5/8" WASHED PEA GRAVEL
- ⑧ PRE-CAST CONCRETE BRICK UNDER EACH CORNER OF THE VALVE BOX

2 BALL VALVE AND BOX

F-2.3 NOT TO SCALE



NOTES:

- ① AUTOMATIC SOLENOID VALVE
- ② PRE-CAST CONCRETE BRICK UNDER EACH CORNER OF THE VALVE BOX
- ③ NOT USED
- ④ 6" DEPTH 5/8" WASHED PEA GRAVEL
- ⑤ 36" LOOP, EACH WIRE RUN
- ⑥ 12" SCH. 80 PVC NIPPLE

4 AUTOMATIC CONTROL VALVE

F-2.3 NOT TO SCALE

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CHEHALIS RECREATION PARK

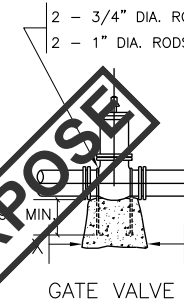
F-2.3
IRRIGATION DETAILS

BID SET

SHEET 43 OF 49 SHEETS

| THRUST BLOCK - TABLE | | | | | | |
|----------------------|--------------|---|----------|----------|-------|------|
| PIPE SIZE | PRESSURE PSI | MINIMUM BEARING AREA AGAINST UNDISTURBED SOIL SQUARE FEET | | | | |
| | | A | B | C | D | E |
| 4" | 200 | 2/(1) | 1/(NONE) | 1/(NONE) | NONE | NONE |
| | 300 | 3/(2) | 2/(2) | 2/(1) | 1/(1) | NONE |

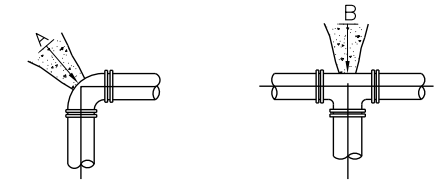
2 - 3/4" DIA. RODS FOR 10" SIZE & SMALLER
2 - 1" DIA. RODS LARGER THAN 10" SIZE



SAFE BEARING LOADS IN LB./SQ. FT. THE SAFE BEARING LOADS GIVEN IN THE FOLLOWING TABLE ARE FOR HORIZONTAL THRUSTS WHEN THE DEPTH OF COVER OVER THE PIPE EXCEEDS 2 FEET.

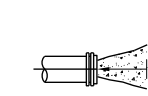
| SOIL | SAFE BEARING LOAD LB PER SQ. FT. |
|----------------------------------|----------------------------------|
| * MUCK, PEAT, ETC. | 0 |
| SOFT CLAY | 1,000 |
| SAND | 2,000 |
| SAND & GRAVEL | 3,000 |
| SAND & GRAVEL CEMENTED WITH CLAY | 4,000 |
| HARD SHALE | 10,000 |

* IN MUCK OR PEAT, ALL THRUSTS SHALL BE RESTRAINED BY PILES OR TIE RODS TO SOLID FOUNDATIONS OR BY REMOVAL OF MUCK OR PEAT AND REPLACEMENT WITH BALLAST OF SUFFICIENT STABILITY TO RESIST THRUST.

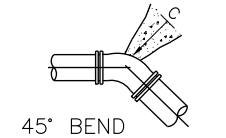


90° BEND

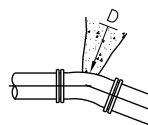
TEE



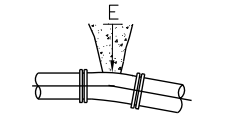
CAP



45° BEND



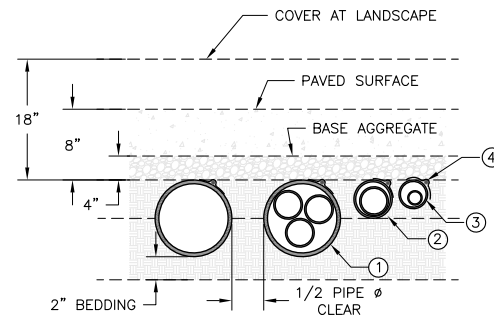
22 1/2° BEND



11 1/4° BEND

NOTES:

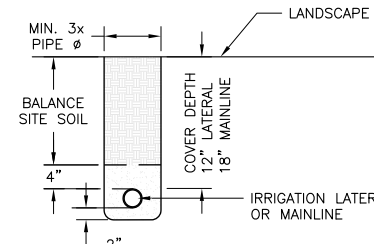
- SQUARE FEET OF CONCRETE THRUSTS - BLOCK AREA BASED ON SAFE BEARING LOAD OF 2000/(3000) POUNDS PER SQUARE FOOT.
- AREAS MUST BE ADJUSTED FOR OTHER SIZE PIPE, PRESSURES & SOIL CONDITIONS.
- CONCRETE BLOCKING SHALL BE CAST IN PLACE & HAVE MINIMUM OF 1/4 SQUARE FOOT BEARING AGAINST THE FITTING.
- BLOCK SHALL BEAR AGAINST FITTINGS ONLY & SHALL BE CLEAR OF JOINTS TO PERMIT TAKING UP OR DISMANTLING JOINT.
- CONTRACTOR SHALL INSTALL BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE AS WELL AS TO CONTINUOUSLY WITHSTAND OPERATING PRESSURE UNDER ALL CONDITIONS OF SERVICE.



SLEEVEING

NOTES:

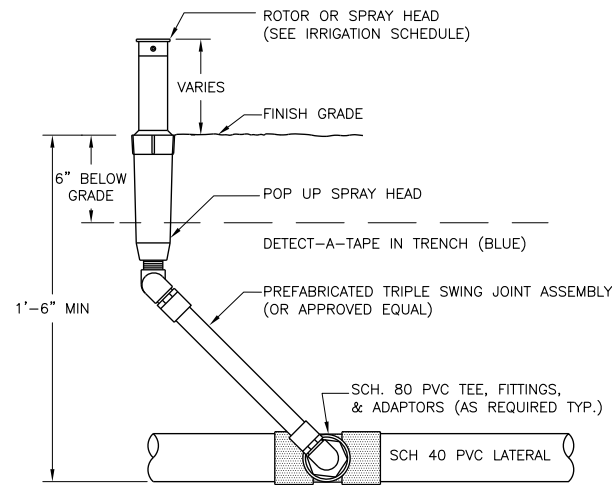
- 12" SLEEVE CONTAINS UP TO (3) 4" PIPE
- 6" SLEEVE CONTAINS (1) 4" PIPE
- 4" SLEEVE CONTAINS (1) 2" PIPE
- ALL SLEEVES TO INCORPORATE A 14G TRACER WIRE TAPED TO THE UPPER 1/3



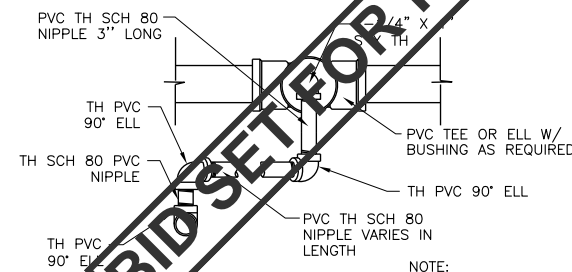
PIPE TRENCHING

1 IRRIGATION PIPE TRENCHING & SLEEVEING
F-2.4 NOT TO SCALE

3 CONCRETE BLOCKING
F-2.4 NOT TO SCALE



NOTE: USE TEFLON TAPE ON ALL THREADED FITTINGS



PLAN

NOTE: UTILIZE 1" SIZE PIPE AND FITTINGS EXCEPT AS NOTED OTHERWISE

2 IRRIGATION ROTOR-SPRAY HEAD
F-2.4 NOT TO SCALE



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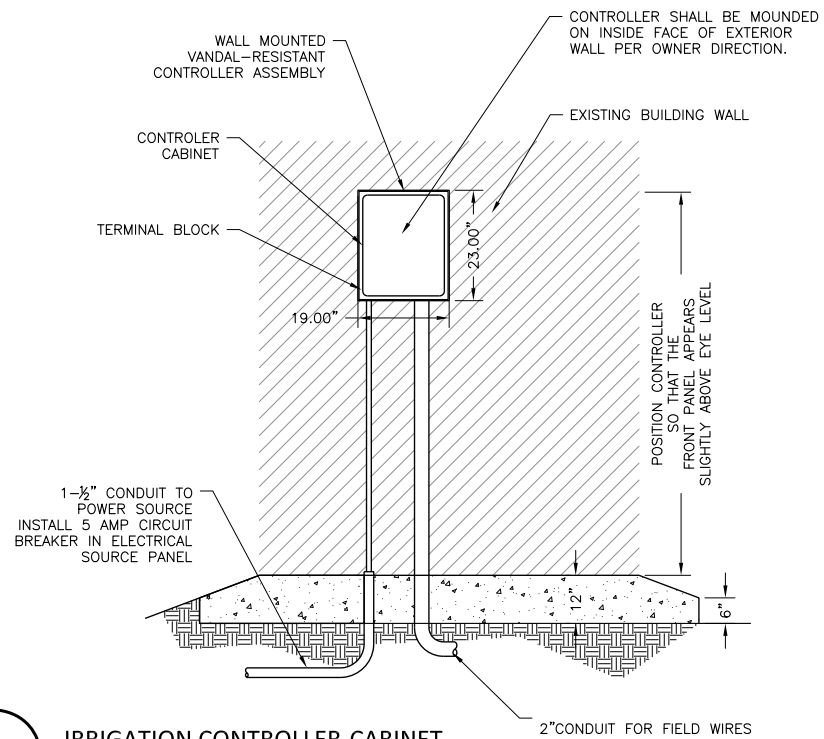
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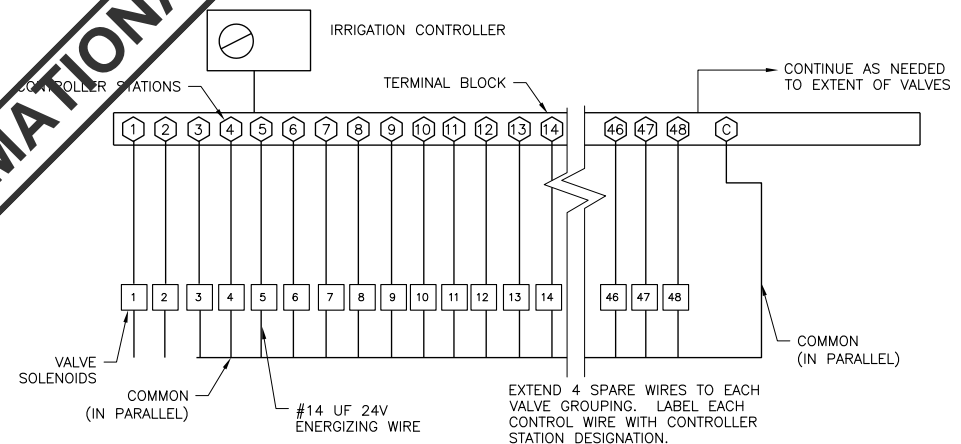
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F-2.4
IRRIGATION DETAILS

BID SET

SHEET 44 OF 49 SHEETS



1 IRRIGATION CONTROLLER-CABINET
F-2.5 NOT TO SCALE



2 IRRIGATION CONTROLLER SCHEMATIC
F-2.5 NOT TO SCALE

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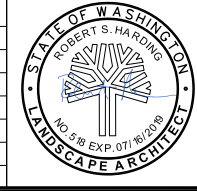


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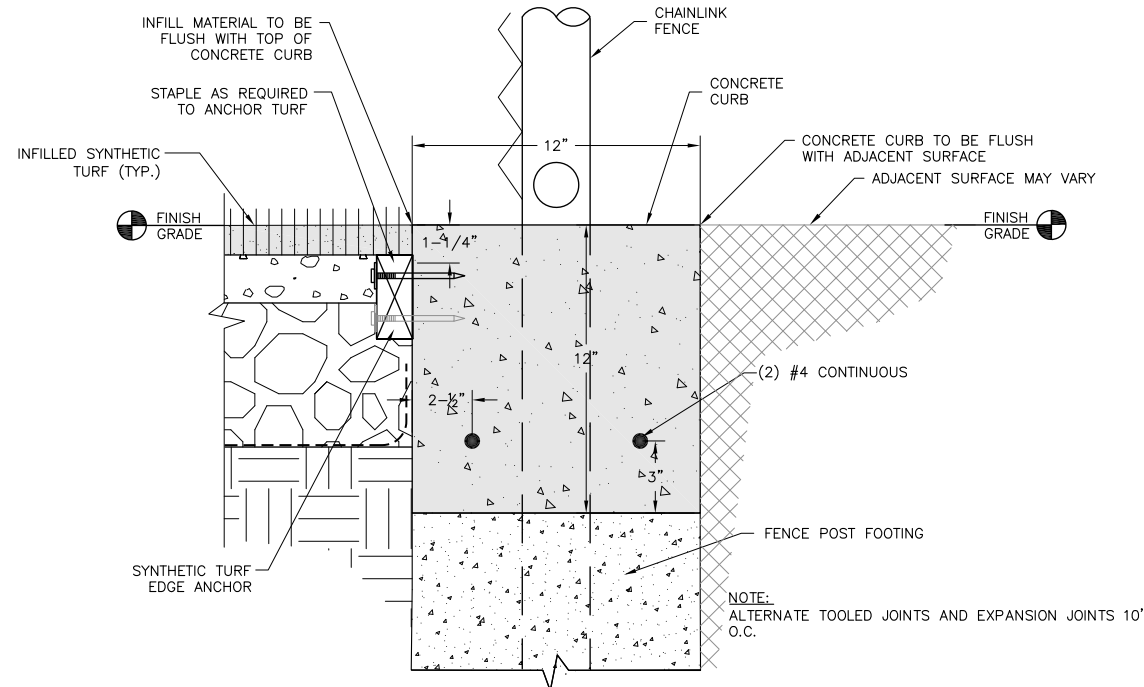


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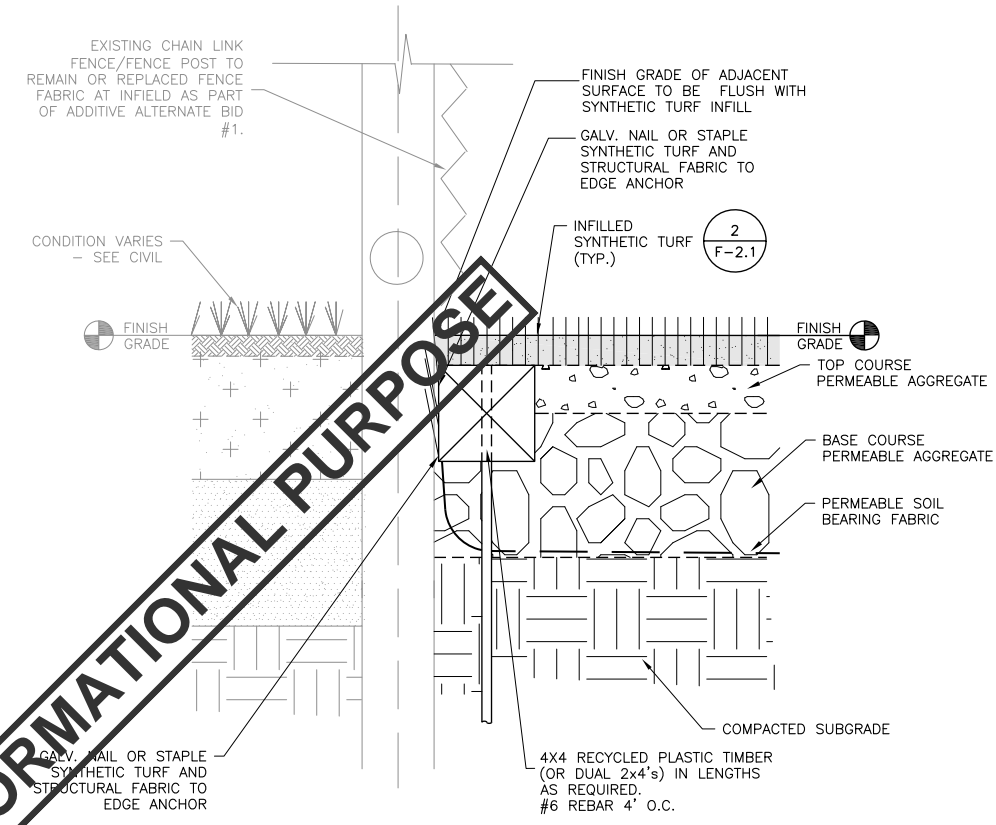


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F-2.5
IRRIGATION & SITE DETAILS

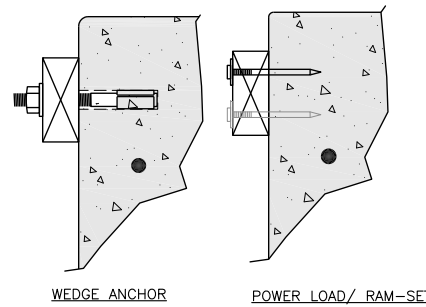
BID SET
SHEET 45 OF 49 SHEETS



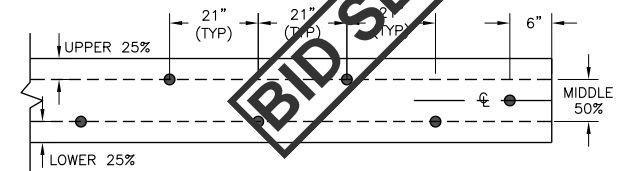
1 EDGE ANCHOR AT CONCRETE CURB
F-2.6 NOT TO SCALE



3 SYNTHETIC TURF EDGE ANCHOR AT EXISTING FENCE
F-2.6 NOT TO SCALE



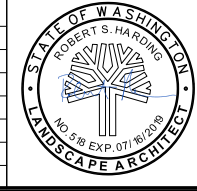
- NOTES:
1. THE PLASTIC EDGE ANCHOR MAY BE TEMPORARILY SET WITH POWER-LOADS PLACED AT THE CONTRACTOR'S OPTION TO ASSIST IN ESTABLISHING THE PROPER LINE AND GRADE. THIS TEMPORARY HARDWARE MAY REMAIN IN PLACE AT FINAL INSTALLATION.
 2. THE CONTRACTOR MAY CHOOSE TO UTILIZE STEEL POWER-LOAD DRIVEN OR RAM-SET CONCRETE ANCHOR NAILS, MINIMUM SHANK DIAMETER 5/32", MINIMUM HEAD/WASHER DIAMETER 3/8", SUFFICIENT LENGTH TO INSURE A MINIMUM 2" EMBEDMENT. INDIVIDUAL ANCHORS SHALL DEVELOP A MINIMUM 450LB SHEAR, 350LB TENSION IN 4,000PSI CONCRETE AT 2" EMBEDMENT.
 3. ONCE INITIAL LINE AND GRADE HAS BEEN ESTABLISHED, INSTALL THE SPECIFIED RAM-SET OR POWER-LOAD DRIVEN CONCRETE ANCHORING NAILS IN MANNER CONSISTENT WITH THE APPROVED MANUFACTURER'S PRINTED INSTRUCTION AND THE SPECIFIED SPACING.
 4. WEDGE ANCHOR TO BE SET AT MIDDLE 50% OF EACH BOARD. 3" O.C. MAX., 1"-6" FROM ENDS.
 5. MINIMUM REQUIREMENTS FOR CONCRETE ANCHOR NAIL INSTALLATION: DEPTH OF EMBEDMENT: 2" OR AS RECOMMENDED BY THE ANCHOR SUPPLIER, WHICHEVER IS GREATER. HORIZONTAL SPACING: NO GREATER THAN 21" ON CENTER AND 6" FROM END OF ANY LENGTH OF LUMBER. STAGGER THE SPACING OF EACH ANCHOR UP AND DOWN WITHIN THE MIDDLE ONE-HALF THE FACE OF THE RECYCLED EDGE ANCHOR.



2 SYNTHETIC TURF EDGE ANCHOR-NOTE
F-2.6 NOT TO SCALE

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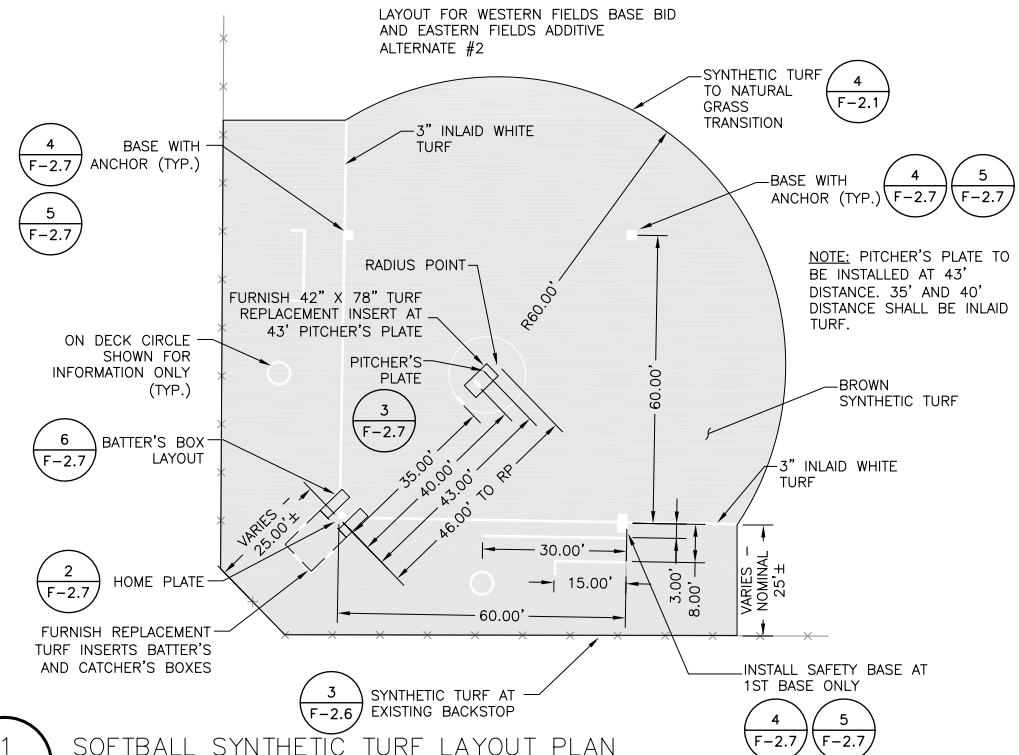
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F-2.6
EDGE CONDITIONS

SHEET 46 OF 49 SHEETS

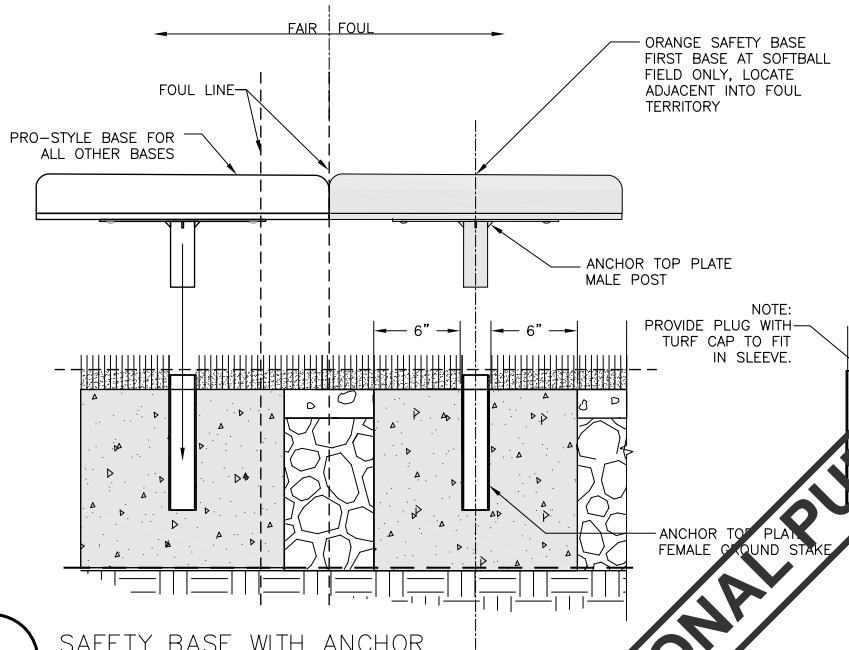
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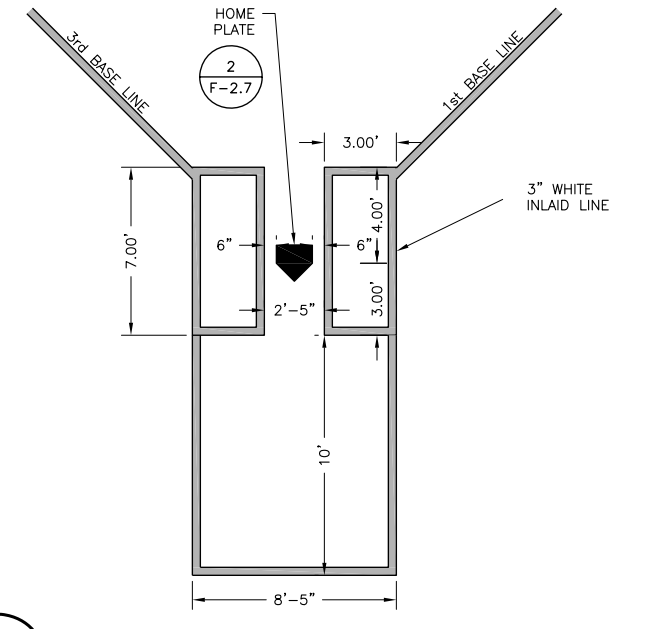
BID SET FOR INSPECTION AND INFORMATIONAL PURPOSE



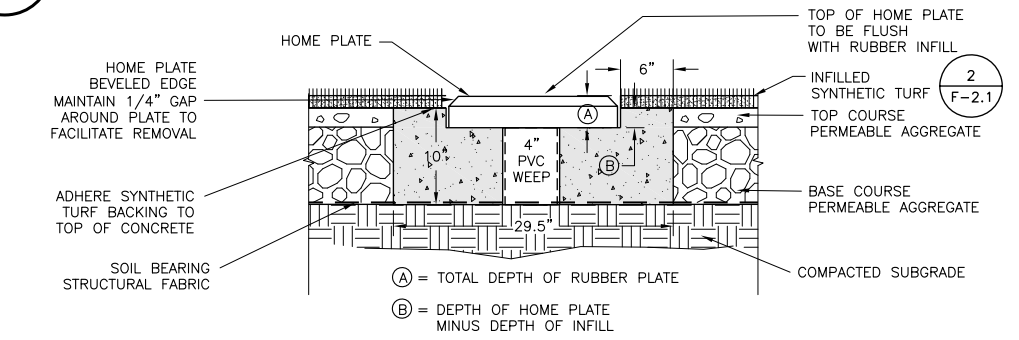
1 SOFTBALL SYNTHETIC TURF LAYOUT PLAN
F-2.7 NOT TO SCALE



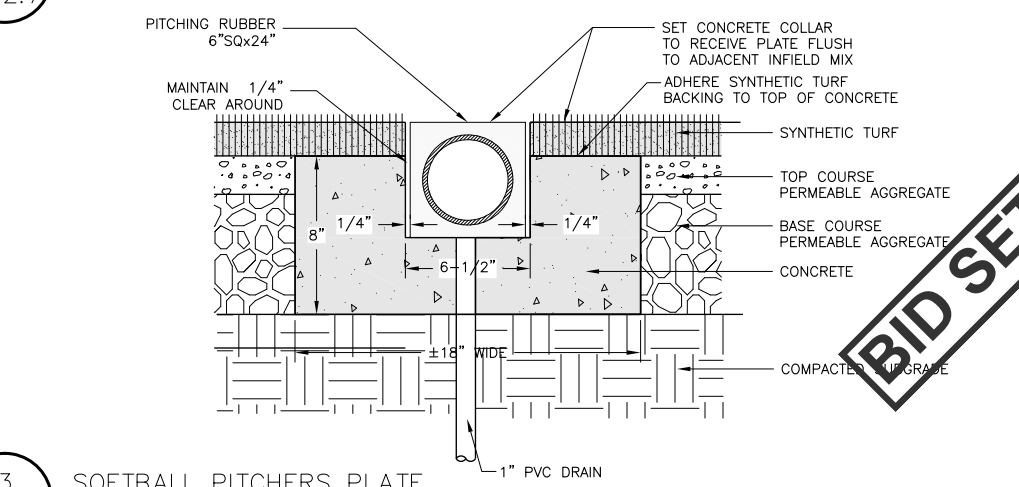
4 SAFETY BASE WITH ANCHOR
F-2.7 NOT TO SCALE



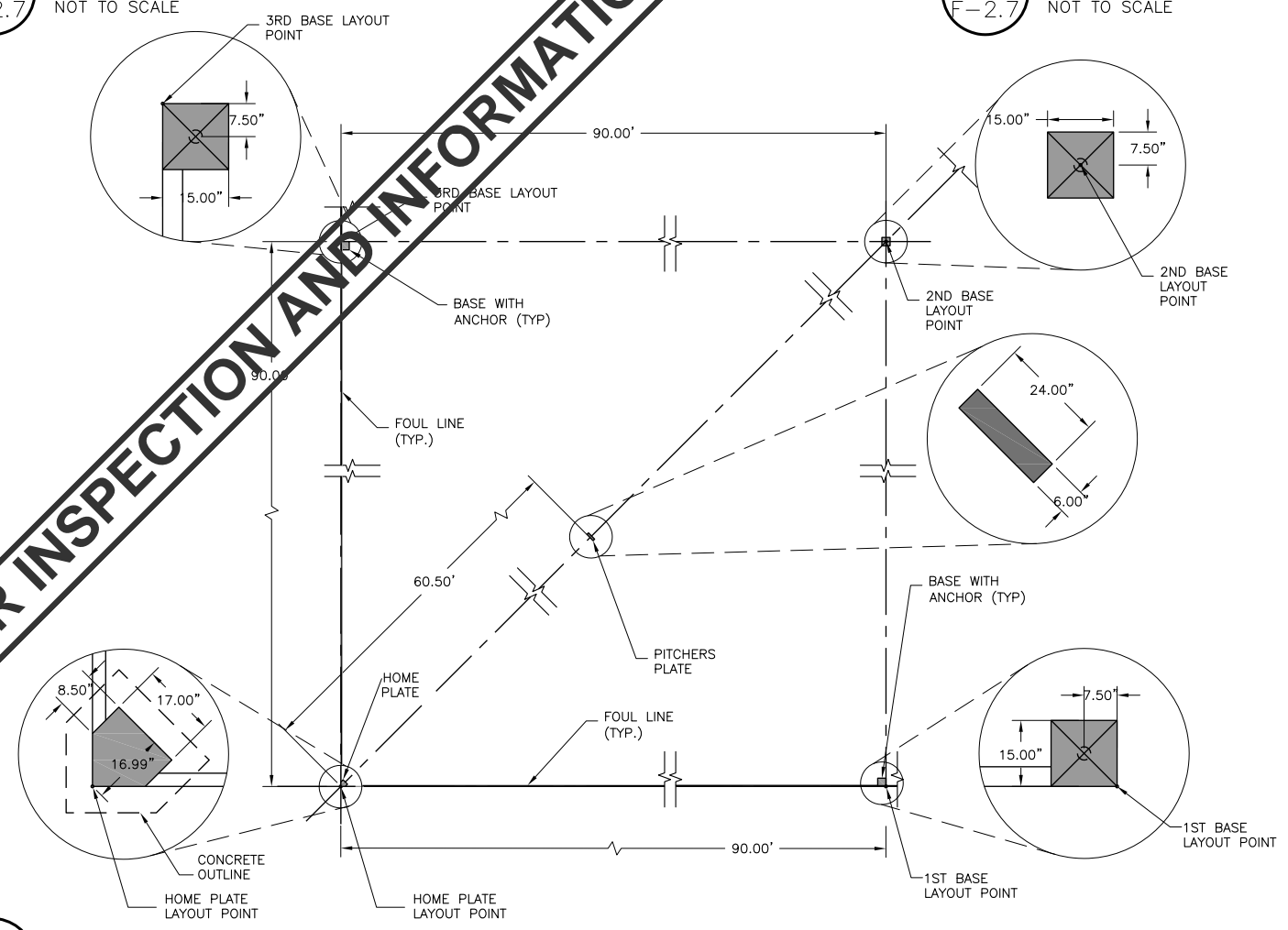
6 SOFTBALL BATTERS BOX
F-2.7 NOT TO SCALE



2 HOME PLATE SYNTHETIC
F-2.7 NOT TO SCALE



3 SOFTBALL PITCHERS PLATE
F-2.7 NOT TO SCALE



5 BASE AND PLATE ANCHOR LAYOUT
F-2.7 NOT TO SCALE



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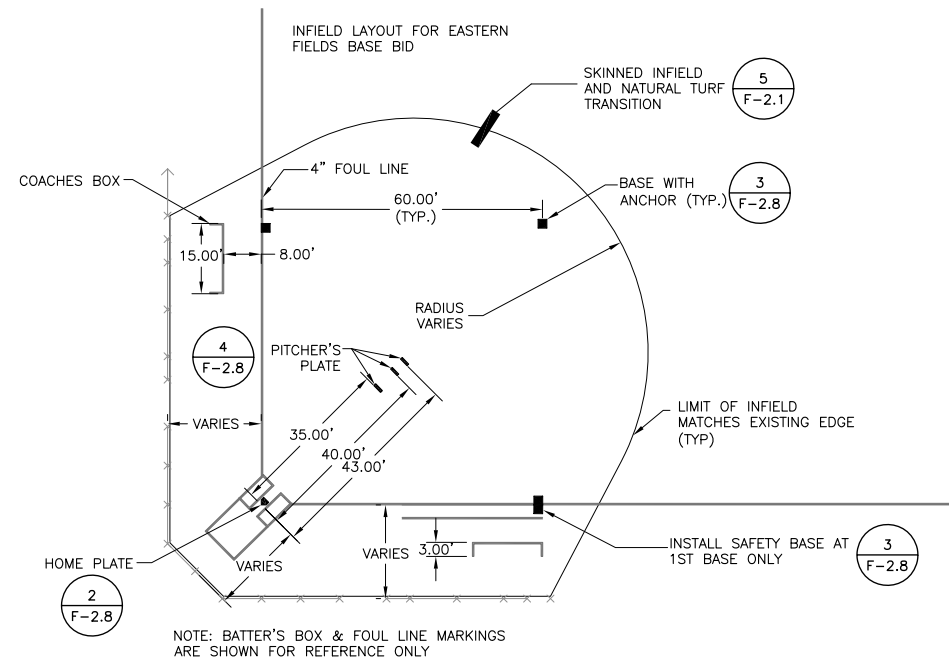


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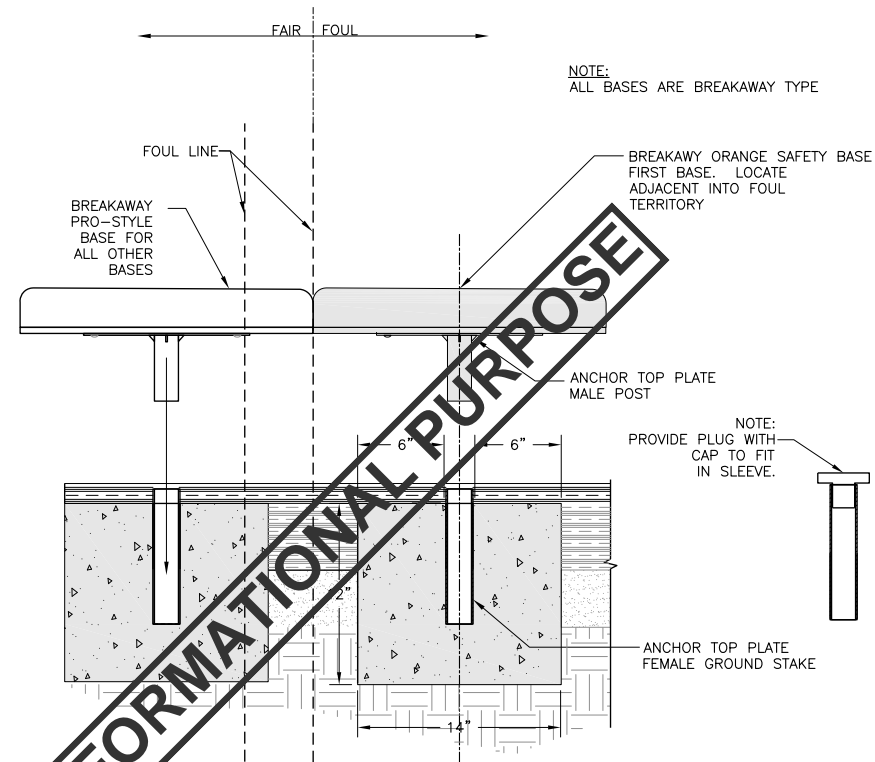
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F-2.7
SYNTHETIC INFIELD LAYOUT PLAN & DETAILS

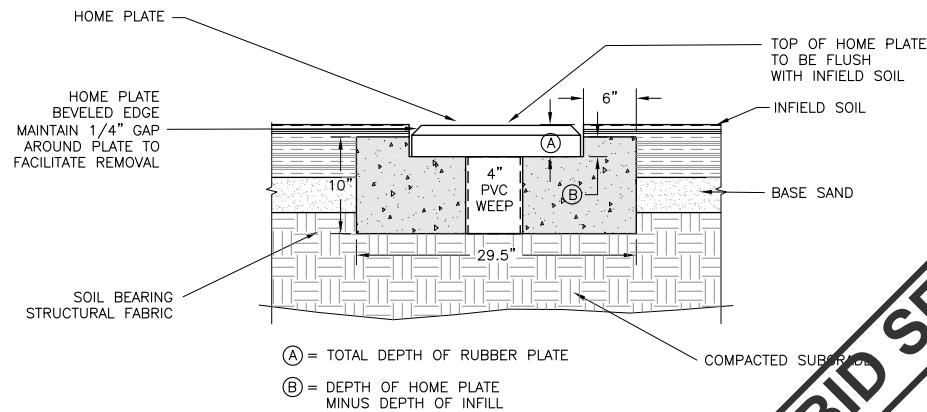
BID SET
SHEET 47 OF 49 SHEETS



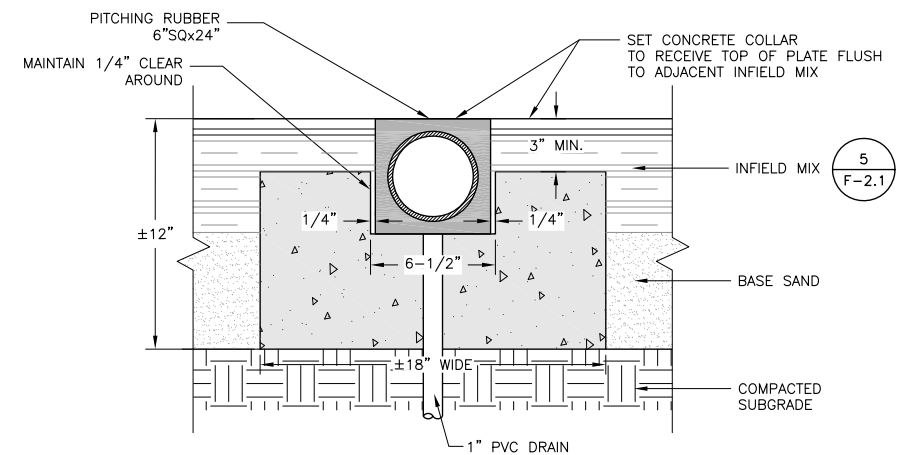
1 SOFTBALL LAYOUT PLAN (EASTERN FIELDS BASE BID)
F-2.8 NOT TO SCALE



3 BASE WITH ANCHOR (EASTERN FIELDS BASE BID)
F-2.8 NOT TO SCALE



2 HOME PLATE (EASTERN FIELDS BASE BID)
F-2.8 NOT TO SCALE



4 PITCHING PLATE IN INFIELD MIX (EASTERN FIELDS BASE BID)
F-2.8 NOT TO SCALE

BID SET FOR INSPECTION AND INFORMATIONAL PURPOSE



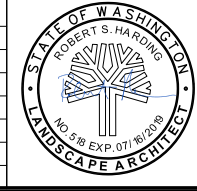
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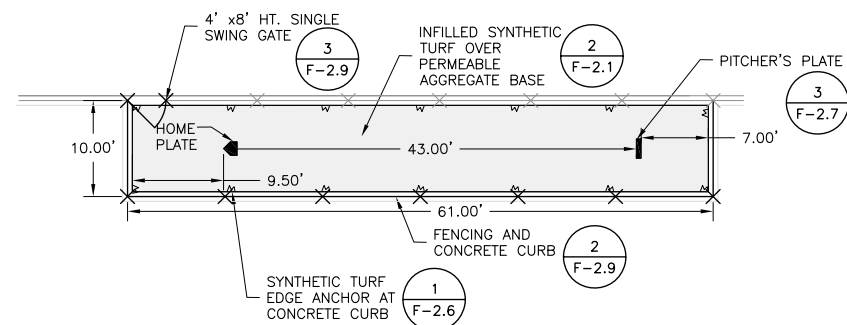
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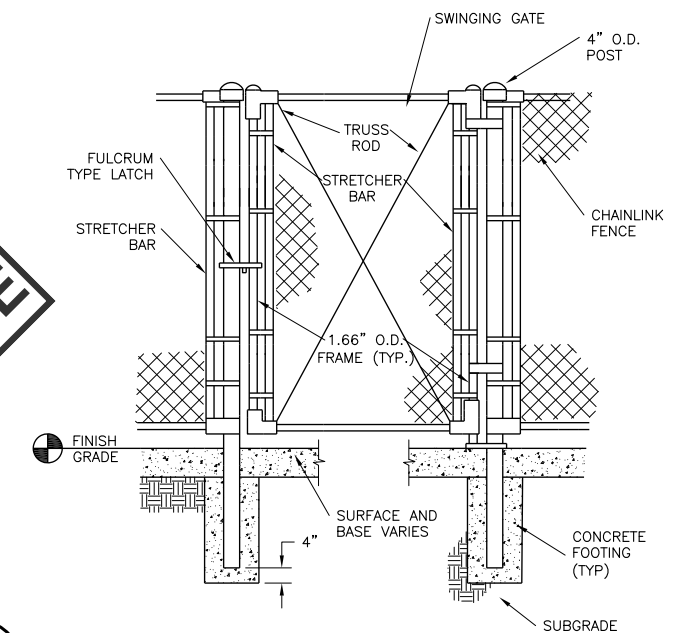
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F-2.8
SOFTBALL FIELD LAYOUT PLAN & DETAILS

BID SET

SHEET 48 OF 49 SHEETS



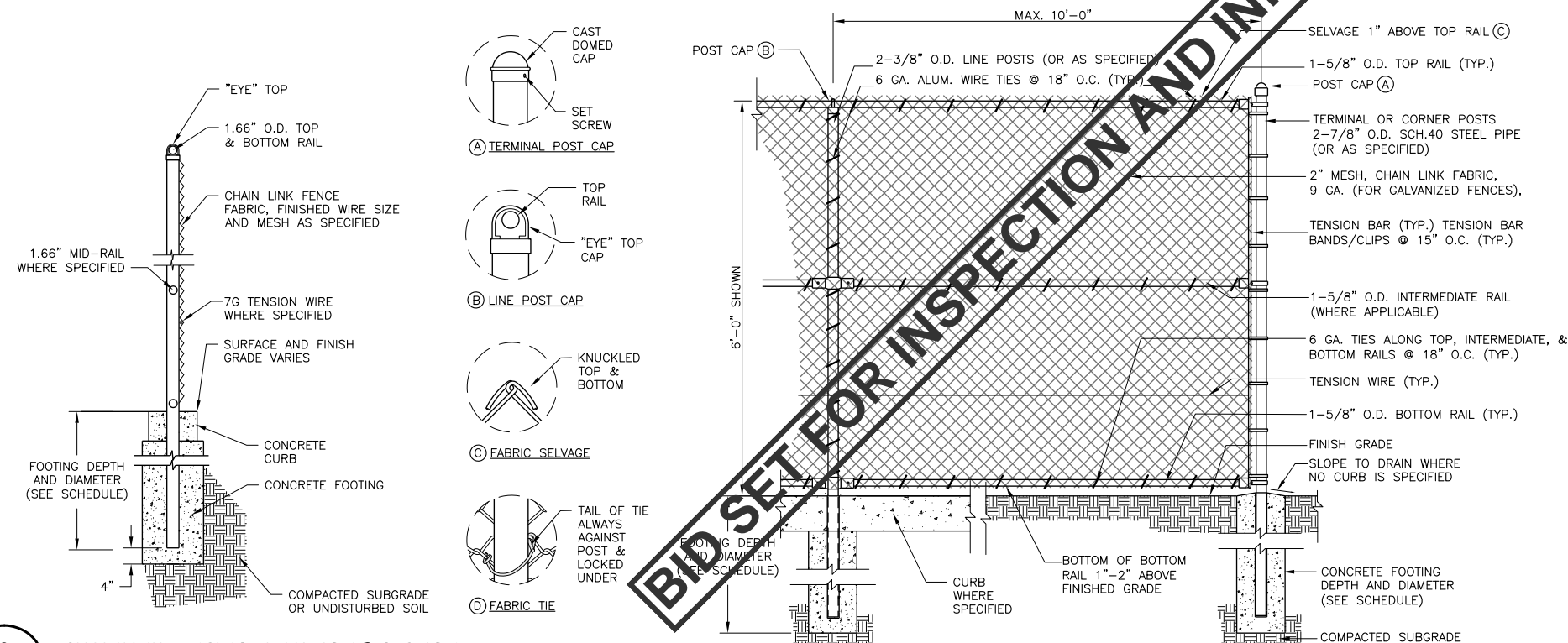
1 SOFTBALL BULLPEN PLAN VIEW
 F-2.9 NOT TO SCALE



3 SINGLE SWING GATE
 F-2.9 NOT TO SCALE

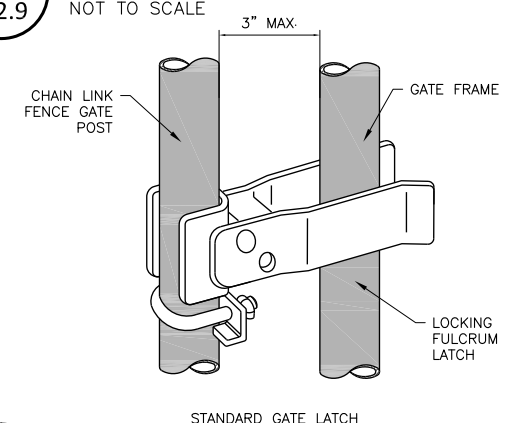
| FENCING TYPE | 6' HIGH FENCING |
|------------------------|-----------------|
| CORNER POST | 4.000" OD |
| TERMINAL POST | 4.000" OD |
| LINE POST | 2.875" OD |
| FOOTING DEPTH | 42" |
| FOOTING DIAMETER | 12" |
| TOP RAIL HT. | 8' |
| INTERMEDIATE RAIL HTS. | 4' |
| BOTTOM RAIL HT | 1" |
| TENSION WIRE HTS. | 2' |

- FENCING NOTES:**
- ALL FENCING FABRIC SHALL BE NO. 9 GAUGE FINISHED STEEL WIRES.
 - ALL POSTS, RAILS, BRACES, POST TOPS, STRETCHER BARS, BANDS, ETC. SHALL BE GALVANIZED.
 - MAXIMUM POST SPACING: 10' ON CENTER.
 - ALIGN POSTS SO THAT FENCE FABRIC IS INSTALLED IN A CONTINUOUS, STRAIGHT LINE, REGARDLESS OF FENCE POST DIAMETER



2 CHAINLINK FENCING ELEVATION & SECTION
 F-2.9 NOT TO SCALE

4 CHAINLINK SCHEDULE
 F-2.9 NOT TO SCALE



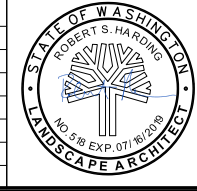
5 GATE LATCH
 F-2.9 NOT TO SCALE



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F-2.9
 SOFTBALL BULLPEN LAYOUT AND FENCING
 SHEET 49 OF 49 SHEETS