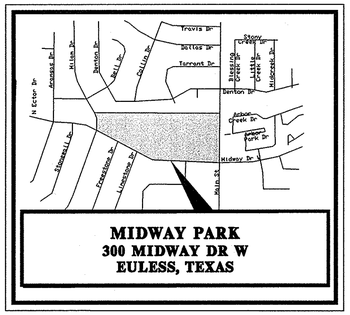

LOCATION MAP
SCALE: 1" = 1000'

EULESS SENIOR CENTER

EULESS, TX

100% CONSTRUCTION DOCUMENTS

DECEMBER, 2009

FOR

PARK AND RECREATION DEPARTMENT

PREPARED FOR:

CITY OF EULESS, TX
201 N Ector Dr
Euless, Texas 76039
(817) 685-1400
(CONTACT: RAY MCDONALD)

PREPARED BY:

Kimley-Horn and Associates, Inc.
Landscape Architects, Engineers and Planners
TEXAS REGISTRATION NUMBER F-928
2201 West Royal Lane, Suite 275, Irving, Texas 75063
Phone: (214) 420-5600 Fax: (214) 420-5680
(CONTACT: JOHN FIELDER)

MAYOR
MARY L. SALEH

CITY COUNCIL
TIM STINNEFORD
LEON HOGG
LINDA MARTIN
DONNA MICKAN
GLENN PORTERFIELD
PERRY BYNUM

CITY MANAGER
GARY MCKAMIE

STATE OF TEXAS
ANNA L. CARRILLO
97350
LICENSED
PROFESSIONAL ENGINEER
12/9/09

INDEX OF SHEETS

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SITE PLANNING (KIMLEY-HORN & ASSOCIATES)	
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SP-2	SITE PLAN - 2
SP-3	ARCHITECTURAL ELEVATIONS
CIVIL ENGINEERING (SITE DEVELOPMENT) (KIMLEY-HORN & ASSOCIATES)	
C0.0	COVER SHEET
C1.0	GENERAL NOTES
C2.0	DEMOLITION PLAN
C3.0	EROSION CONTROL PLAN
C3.1	EROSION CONTROL DETAILS
C4.0	PAVING AND DIMENSION CONTROL PLAN
C5.0	DRAINAGE AREA MAP
C5.1	GRADING AND DRAINAGE PLAN
C5.2	STORM DRAIN PLAN
C5.3	STORM DRAIN PROFILES
C5.4	STORM DRAIN CALCULATIONS
C6.0	UTILITY PLAN
C7.0	SITE DETAILS - 1
C7.1	SITE DETAILS - 2
C7.2	SITE DETAILS - 3
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PERMITTING AGENCIES

SITE PLAN REVIEW
CITY OF EULESS
PLANNING AND DEVELOPMENT
201 N. ECTOR DRIVE
EULESS, TEXAS 76039
(817) 685-1623
ATTN: CHRIS BARKER

PAVING AND DRAINAGE REVIEW
CITY OF EULESS
PLANNING AND DEVELOPMENT
201 N. ECTOR DRIVE
EULESS, TEXAS 76039
(817) 685-1647
ATTN: ALLEN J. HARTS, P.E.

WATER AND WASTEWATER REVIEW
CITY OF EULESS
ENGINEERING
201 N. ECTOR DRIVE
EULESS, TEXAS 76039
(817) 685-1647
ATTN: ALLEN J. HARTS, P.E.

UTILITY CONTACTS

ELECTRIC SERVICE
ONCOR ELECTRIC DELIVERY
200 N. ECTOR DRIVE
EULESS, TEXAS 76040
(817) 817-2506

TELEPHONE SERVICE
AT&T
2313 W.E. ROBERTS, ROOM 213
GRAND PRARIE, TEXAS 75051
(972)660-0083
ATTN: KATHY COCKRELL

NATURAL GAS
ATMOS ENERGY
850 EAST BORDER STREET
ARLINGTON, TEXAS 76010
(817)303-2902
ATTN: JOE HENDERSON

CABLE SERVICE
TIME WARNER CABLE
1565 CHENAULT STREET
DALLAS, TEXAS 75228
(214) 320-5433
ATTN: PHILLIP GWIN

EULESS SENIOR CENTER, EULESS, TX

C0.0

File: K:\LAC_LAP\015850001\Dwg\Sr. Center DWG\Sheets\C-0.0 COVER.dwg [Layout1] 12/8/2009 5:53pm
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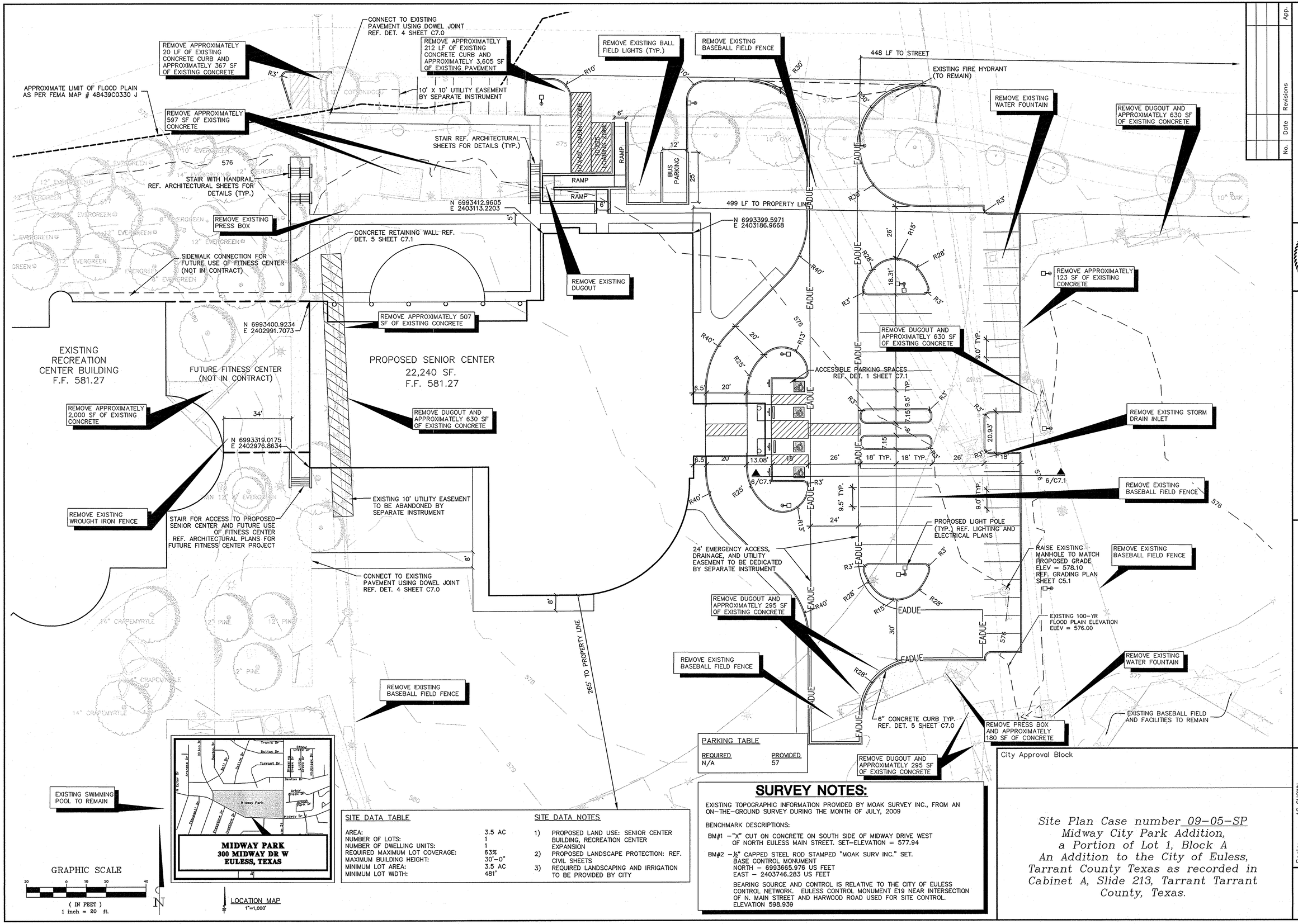


PARKING TABLE	
REQUIRED	PROVIDED
N/A	57

SITE DATA TABLE	
AREA:	3.5 AC
NUMBER OF LOTS:	1
NUMBER OF DWELLING UNITS:	1
REQUIRED MAXIMUM LOT COVERAGE:	63%
MAXIMUM BUILDING HEIGHT:	30'-0"
MINIMUM LOT AREA:	3.5 AC
MINIMUM LOT WIDTH:	481'

SITE DATA NOTES

1) PROPOSED LAND USE: SENIOR CENTER BUILDING, RECREATION CENTER EXPANSION
2) PROPOSED LANDSCAPE PROTECTION: REF. CIVIL SHEETS
3) REQUIRED LANDSCAPING AND IRRIGATION TO BE PROVIDED BY CITY

SURVEY NOTES:

EXISTING TOPOGRAPHIC INFORMATION PROVIDED BY MOAK SURVEY INC., FROM AN ON-THE-GROUND SURVEY DURING THE MONTH OF JULY, 2009

BENCHMARK DESCRIPTIONS:

BM#1 –"X" CUT ON CONCRETE ON SOUTH SIDE OF MIDWAY DRIVE WEST OF NORTH EULESS MAIN STREET. SET–ELEVATION = 577.94

BM#2 –½" CAPPED STEEL ROD STAMPED "MOAK SURV INC." SET. BASE CONTROL MONUMENT
NORTH – 6993665.976 US FEET
EAST – 2403746.283 US FEET

BEARING SOURCE AND CONTROL IS RELATIVE TO THE CITY OF EULESS CONTROL NETWORK. EULESS CONTROL MONUMENT E19 NEAR INTERSECTION OF N. MAIN STREET AND HARWOOD ROAD USED FOR SITE CONTROL. ELEVATION 598.939

City Approval Block

Site Plan Case number 09-05-SP
Midway City Park Addition,
a Portion of Lot 1, Block A
An Addition to the City of Euless,
Tarrant County Texas as recorded in
Cabinet A, Slide 213, Tarrant Tarrant
County, Texas.

No.	Date	Revisions	App.

Kimley-Horn and Associates, Inc.
TEXAS REGISTRATION NUMBER F-928
Tel. No. (214) 420-5600
Fax No. (214) 420-5680
2201 West Royal Lane, Suite 275
Irving, Texas 75063

STATE OF TEXAS
ANNA L. CARRILLO
97350
LICENSED
PROFESSIONAL ENGINEER
12/9/09

EULESS SENIOR CENTER
CITY OF EULESS, TX

SITE PLAN - 1

Scale: AS SHOWN
Designed by: ABP
Drawn by: ABP
Checked by: MCH
Date: NOVEMBER 2009
Project No. 61061005

SHEET
SP-1

File: K:\LAD_LAD\061005\Dwg\SP, Center DWG\Sheets\SP-1.dwg [SP-1] 12/9/2009 10:53am
Xrefs: x24SBP cells xsurvey xbdg xdcp xUtil Images: D1551401B7.tif new center.jpg

APPROXIMATE LIMIT OF FLOOD PLAIN AS PER FEMA MAP # 48439C0330 J

10' X 10' UTILITY EASEMENT BY SEPARATE INSTRUMENT

SIDEWALK

LOADING ZONE

10'x20' LOADING ZONE

RAMP

EXISTING RECREATION CENTER BUILDING F.F. 581.27

FUTURE FITNESS CENTER (NOT IN CONTRACT)

PROPOSED SENIOR CENTER
22,240 SF.
F.F. 581.27
1 STORY

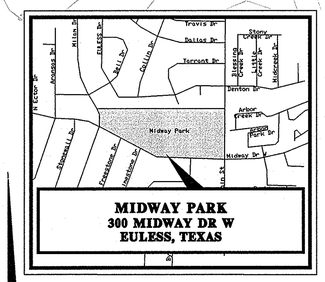
EXISTING 10' UTILITY EASEMENT TO BE ABANDONED BY SEPARATE INSTRUMENT

PROPOSED CURB INLET REF. C5.2 FOR ELEVATIONS, C7.3 FOR DETAILS

EXISTING 100-YR FLOOD PLAIN ELEVATION ELEV = 576.00

RAISE EXISTING MANHOLE TO MATCH PROPOSED GRADE TD = 578.10

PROPOSED TYPE "Y" DROP INLET REF. C5.2 FOR ELEVATIONS, C7.3 FOR DETAILS



LOCATION MAP
1"=1,000'

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)
1 inch = 20 ft.

SURVEY NOTES:

EXISTING TOPOGRAPHIC INFORMATION PROVIDED BY MOAK SURVEY INC., FROM AN ON-THE-GROUND SURVEY DURING THE MONTH OF JULY, 2009

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DRAINAGE AREA TABLE

DRAINAGE AREA NO.	RUNOFF COEFF. "C"	RAINFALL INTENSITY "I"25	RAINFALL INTENSITY "I"100	TC (MIN.)	AREA (AC.)	Q25 (CFS)	Q100 (CFS)	COLLECTION POINT
1	0.65	9.4	11.5	10	0.63	3.85	4.71	PROPOSED ON-SITE CURB INLET 4
2	0.71	9.4	11.5	10	0.16	1.06	1.31	PROPOSED ON-SITE CURB INLET 3
3	0.95	9.4	11.5	10	0.23	2.05	2.48	PROPOSED ON-SITE CURB INLET 2
4	0.95	9.4	11.5	10	0.40	3.57	4.40	PROPOSED ON-SITE CURB INLET 1
5	0.35	9.4	11.5	10	1.17	3.85	4.70	PROPOSED ON-SITE DROP INLET 1
6	0.35	9.4	11.5	10	0.43	1.41	1.73	PROPOSED ON-SITE DROP INLET 2
7	0.35	9.4	11.5	10	0.56	1.84	2.25	PROPOSED ON-SITE DROP INLET 3
8	0.95	9.4	11.5	10	0.22	1.96	2.40	PROPOSED ON-SITE DROP INLET VIA ROOF DRAIN
9	0.95	9.4	11.5	10	0.17	1.51	1.80	PROPOSED ON-SITE DROP INLET VIA ROOF DRAIN
10	0.95	9.4	11.5	10	0.17	1.51	1.80	PROPOSED ON-SITE DROP INLET VIA ROOF DRAIN

NOTE: REFER TO SHEET C-5.1 FOR PROPOSED GRADING, SHEET C-5.0 FOR DRAINAGE AREAS AND INLET #'S, 5.3 FOR PROFILES AND 5.4 FOR CAPACITIES.

NOTE:
THE FOLLOWING DRAINAGE CRITERIA, TAKEN FROM THE CITY OF EULESS STORMWATER IMPROVEMENT STANDARDS AND TECHNICAL PAPER 40 WERE USED IN PREPARING THESE PLANS:

TC = 10 MINUTES
C = 0.35 (PARKS/OPEN SPACE)
= 0.95 (BUSINESS AREAS)
= 0.95 (INDUSTRIAL AREAS)
= 0.70 (MULTIFAMILY RESIDENTIAL)
= 0.65 (OTHER RESIDENTIAL AREAS RESIDENTIAL)
I_{100} = 11.5
Q = CIA=cfs

City Approval Block

Site Plan Case number 09-05-SP
Midway City Park Addition,
a Portion of Lot 1, Block A
An Addition to the City of Euless,
Tarrant County Texas as recorded in
Cabinet A, Slide 213, Tarrant Tarrant
County, Texas.

No.	Date	Revisions	App.

Kimley-Horn and Associates, Inc.
TEXAS REGISTRATION NUMBER F-928
Tel. No. (214) 420-5600
Fax No. (214) 420-5680
2201 West Royal Lane, Suite 275
Irving, Texas 75063

STATE OF TEXAS
ANNA L. CARRILLO
97350
LICENSED
PROFESSIONAL ENGINEER
12/01/09

EULESS SENIOR CENTER
CITY OF EULESS, TX

SITE PLAN - 2

Scale: AS SHOWN
Designed by: ABP
Drawn by: ABP
Checked by: MCH
Date: NOVEMBER 2009
Project No. 61061005

SHEET
SP-2

File: K:\JAC_LAB\P\061005\dwg\Sr. Center DWG\Sheets\SP-2.dwg [SP-2] 12/2/2009 10:34am
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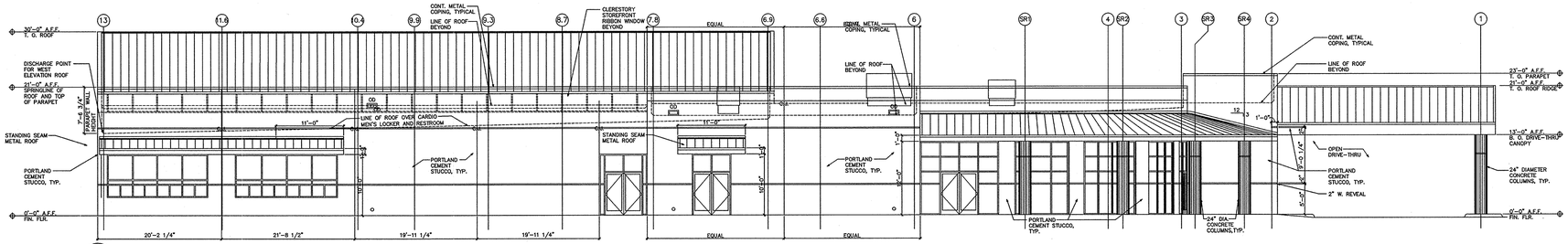
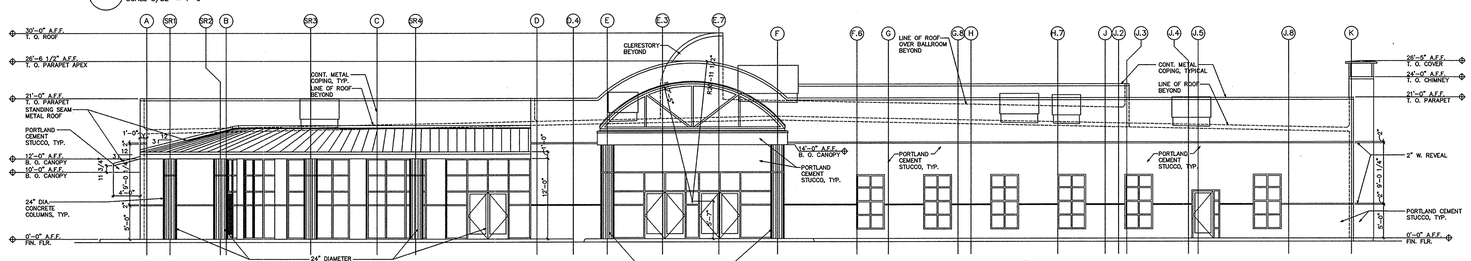
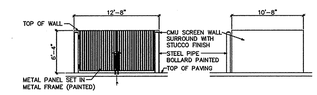


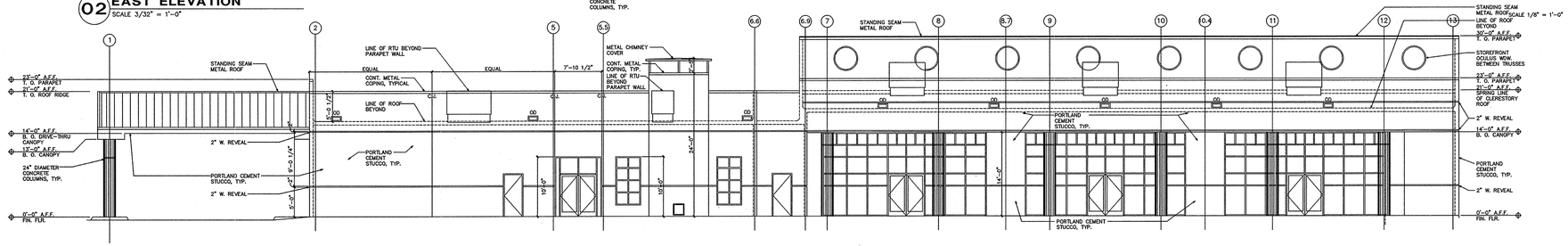
01 SOUTH ELEVATION
SCALE 3/32" = 1'-0"



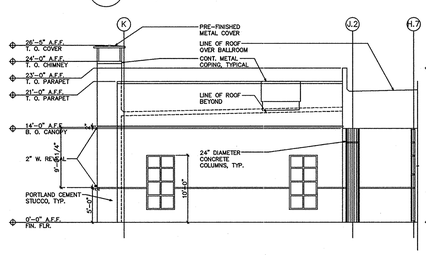
02 EAST ELEVATION
SCALE 3/32" = 1'-0"



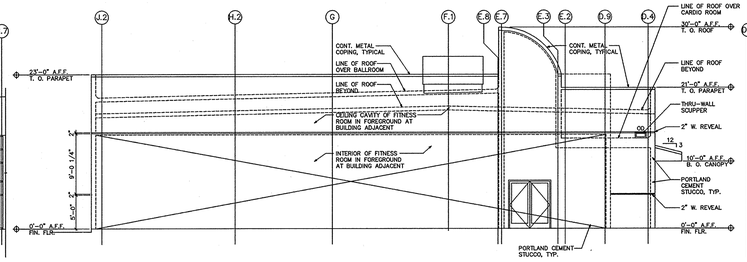
2A DUMPSTER ENCLOSURE
SCALE 3/32" = 1'-0"



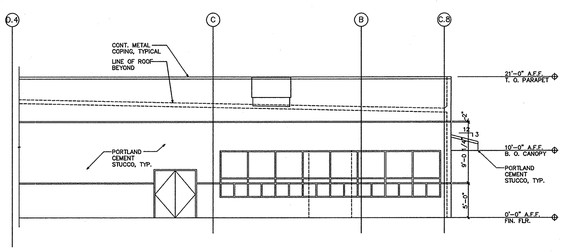
03 NORTH ELEVATION
SCALE 3/32" = 1'-0"



04 EAST ELEVATION
SCALE 3/32" = 1'-0"



05 EAST ELEVATION
SCALE 3/32" = 1'-0"



06 PARTIAL EAST ELEVATION
SCALE 3/32" = 1'-0"

BUILDING INFORMATION

GROSS BUILDING SQUARE FOOTAGE	22,240 SQFT.
BUILDING HEIGHT AT APEX	28'-0"
BUILDING FLOORS	ONE STORY
BUILDING FACADE MATERIAL PERCENTAGE	100% PORTLAND CEMENT STUCCO
ROOF SLOPE	1/4" PER FT., TYP.

City Approval Block

Site Plan Case number 09-05-SP
Midway City Park Addition,
a Portion of Lot 1, Block A
An Addition to the City of Euless,
Tarrant County Texas as recorded in
Cabinet A, Slide 213, Tarrant Tarrant
County, Texas.

EULESS RECREATION CENTER
EULESS SENIOR CENTER
EULESS, TEXAS

BYRON FOLSE ASSOCIATES, INC.
ARCHITECTS AND PLANNERS
2275 WESTPARK COURT EULESS, TEXAS

JOB NO.: 08-10-567
DR. BY:
DATE: NOV 2009

SHEET
SP-3
OF

GENERAL CONSTRUCTION NOTES

1. ALL MATERIAL AND CONSTRUCTION SHALL CONFORM TO THE CITY OF EULESS CONSTRUCTION STANDARDS AND SPECIFICATIONS, AND TO THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AS AMENDED BY THE CITY OF EULESS. IN THE EVENT THAT AN ITEM IS NOT COVERED IN THE CONSTRUCTION DOCUMENTS THE CITY'S DECISION WILL APPLY.
2. THE CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE UNDERGROUND OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION. AN INFORMAL LIST OF UTILITY COMPANIES ARE AS FOLLOWS:

   ELECTRIC – ONCOR ELECTRIC DELIVERY – GRACE DANIELS
   PHONE: (817) 817-2506

   GAS – ATMOS ENERGY – JOE HENDERSON
   PHONE: (817) 303-2902

   TELEPHONE – AT&T – KATHY COCKRELL
   PHONE: (972) 660-0083

   CABLE – TIME WARNER CABLE – PHILLIP GWIN
   PHONE: (214) 320-5433

4. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PUBLIC UTILITIES IN THE CONSTRUCTION OF THIS PROJECT. ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ETC., MUST BE ADJUSTED TO PROPER GRADE BY THE CONTRACTOR PRIOR TO AND AFTER PLACING OF PERMANENT PAVING. UTILITIES MUST BE MAINTAINED TO PROPER LINE AND GRADE DURING CONSTRUCTION OF THE PAVING FOR THIS PROJECT.
5. BRACING OF UTILITY POLES MAY BE REQUIRED BY UTILITY COMPANIES WHEN TRENCHING OR EXCAVATION IS IN CLOSE PROXIMITY TO THE POLES. THE COST OF BRACING POLES WILL BE BORNE BY THE CONTRACTOR AND IS INCIDENTAL TO THE WORK.
6. THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES SHOWN ON THE PLANS WERE OBTAINED FROM AVAILABLE UTILITY COMPANY RECORDS AND PLANS AND ARE CONSIDERED APPROXIMATE. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO VERIFY LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ADJACENT AND/OR CONFLICTING UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION IN ORDER THAT ADJUSTMENTS CAN BE MADE TO PROVIDE ADEQUATE CLEARANCES. THE CONTRACTOR SHALL PRESERVE AND PROTECT PUBLIC UTILITIES AT ALL TIMES DURING CONSTRUCTION. ANY DAMAGE TO UTILITIES RESULTING FROM CONTRACTOR'S OPERATIONS SHALL BE RESTORED AT CONTRACTOR'S EXPENSE. THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED WHEN PROPOSED GRADES CONFLICT WITH EXISTING UTILITIES.
7. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION AND DEPTH OF ALL FRANCHISE UTILITY SERVICES AND ANY REQUIRED RELOCATIONS AND/OR EXTENSIONS.
8. THE CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE ANY PHYSICAL DAMAGE TO PRIVATE PROPERTY, INCLUDING, BUT NOT LIMITED TO FENCES, WALLS, PAVEMENT, GRASS, TREES, AND LAWN SPRINKLER AND IRRIGATION SYSTEMS AT NO COST TO THE OWNER, OR OWNER'S AGENTS.
9. THE CONTRACTOR SHALL REMOVE AND DISPOSE ALL SURPLUS MATERIALS, SPOILS, AND DEBRIS. THIS WORK IS INCIDENTAL TO THE CONTRACT.
10. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS AND APPROVALS PRIOR TO CONSTRUCTION.
11. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, AND SPECIAL CONDITIONS, COPIES OF ANY REQUIRED CONSTRUCTION PERMITS, EROSION CONTROL PLANS, SWPPP AND INSPECTION REPORTS.
12. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ARCHITECT AND ENGINEER.
13. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER, ARCHITECT AND ENGINEER DIRECTLY FROM THE TESTING AGENCY.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE ENGINEER A CERTIFIED RECORD SURVEY SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF TEXAS DEPICTING THE ACTUAL FIELD LOCATION OF ALL CONSTRUCTED IMPROVEMENTS THAT ARE REQUIRED BY THE JURISDICTIONAL AGENCIES FOR THE CERTIFICATION PROCESS. ALL SURVEY COSTS WILL BE THE CONTRACTOR'S RESPONSIBILITY.
15. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES, JURISDICTIONAL AGENCIES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO THE FINAL CONNECTION OF SERVICES.
16. CONTRACTOR SHALL VERIFY BENCHMARKS AND DATUMS PRIOR TO COMMENCING CONSTRUCTION OR STAKING OF IMPROVEMENTS. CONTRACTOR SHALL IMMEDIATELY REPORT DISCREPANCIES TO THE ARCHITECT AND ENGINEER.
17. CONTRACTOR SHALL THOROUGHLY CHECK COORDINATION OF CIVIL, LANDSCAPE, MEP, ARCHITECTURAL, AND OTHER PLANS PRIOR TO COMMENCING CONSTRUCTION. OWNER AND ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY PRIOR TO COMMENCING WITH CONSTRUCTION.
18. ALL HORIZONTAL DIMENSIONS GIVEN ARE TO FACE OF CURB AND TO PIPE CENTERLINES, UNLESS OTHERWISE NOTED ON PLANS.
19. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE OWNER AND ENGINEER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.
20. SPOT ELEVATIONS SHOWN ARE TO TOP OF PAVING SURFACE OR FINISHED EARTH GRADE, UNLESS NOTED OTHERWISE. ADD 0.50' TO SPOT GRADES SHOWN FOR TOP OF CURB ELEVATIONS.
21. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING RELOCATION AND INSTALLATION OF FRANCHISE UTILITIES NECESSARY FOR ON AND OFF SITE CONSTRUCTION.
22. THE CONTRACTOR SHALL TOPSOIL, SEED AND FERTILIZE ALL AREAS DISTURBED BY CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE WHATEVER MEASURES ARE NEEDED INCLUDING TEMPORARY IRRIGATION TO INSURE FULL COVERAGE OF GRASSING. UNLESS OTHERWISE NOTED, PRIVATE LAWN AREAS AND PARKWAYS IN FRONT OF PRIVATE LAWN AREAS DISTURBED BY CONSTRUCTION SHALL BE REPLACED WITH BLOCK SOD OF A SIMILAR GROSS TO THAT EXISTING. ALL SEEDED OR SODDED AREAS SHALL RECEIVE FOUR (4) INCHES OF TOPSOIL.
23. REFER TO LANDSCAPE PLANS FOR ALL TREE REMOVAL REQUIREMENTS.
24. CONTRACTOR ADJUSTMENTS TO SPOT GRADES TO MAINTAIN POSITIVE DRAINAGE IS ALLOWED, WITH THE PRIOR APPROVAL OF THE ARCHITECT AND ENGINEER.
25. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH. THE AREAS SHALL THEN BE SEEDED, IRRIGATED, AND STABILIZED AS INDICATED IN THE PLANS AND SPECIFICATIONS, AND MAINTAINED UNTIL SOIL IS STABILIZED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE CONSTRUCTION SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ALL EARTHEN AREAS WILL BE STABILIZED AND MULCHED AS SHOWN ON THE LANDSCAPE, GRADING, AND EROSION CONTROL PLANS.
26. ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE INDICATED.
27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
28. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING MEASURES TO MINIMIZE DAMAGE TO TREE LIMBS, TREE TRUNKS, AND TREE ROOTS ALONG THE ROUTE OF THE PROJECT. ALL SUCH MEASURES SHALL BE CONSIDERED AS INCIDENTAL WORK INCLUDED IN THE CONTRACT UNIT PRICE BID FOR APPLICABLE SITE WORK OR STRUCTURE INSTALLATION. WHEN CONSTRUCTION PASSES BY OR CLOSE TO TREES, THE CONTRACTOR SHALL ERECT TEMPORARY CONSTRUCTION FENCE TO LIMIT ACTIVITY OUTSIDE OF THE EASEMENT IN THE TREE AREAS. NO PARKING WILL BE ALLOWED WITHIN TEN (10) FEET OF ANY TREE TO REMAIN. CONTRACTOR SHALL INSPECT EACH WORK SITE IN ADVANCE AND ARRANGE TO HAVE ANY TREE LIMBS PRUNED THAT MIGHT BE DAMAGED BY EQUIPMENT OPERATIONS. THE ENGINEER SHALL BE NOTIFIED AT LEAST 24 HOURS PRIOR TO ANY TREE TRIMMING WORK. NOTHING SHALL BE STORED OVER THE TREE ROOT SYSTEM WITHIN THE DRIP LINE AREA OF ANY TREE. THE CONTRACTOR SHALL EMPLOY A QUALIFIED LANDSCAPER FOR ALL THE WORK REQUIRED FOR TREE CARE TO ENSURE UTILIZATION OF THE BEST AGRICULTURAL PRACTICES AND PROCEDURES.
29. SOD MUST BE INSTALLED AND MAINTAINED ON EXPOSED SLOPES WITHIN 48 HOURS OF COMPLETING FINAL GRADING, AND AT ANY OTHER TIME AS NECESSARY, TO PREVENT EROSION, SEDIMENTATION OR TURBID DISCHARGES.
30. THE CONTRACTOR MUST REVIEW AND MAINTAIN A COPY OF THE STORM WATER PERMIT COMPLETE WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITION AT THE CONSTRUCTION SITE. THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST BY WATER MANAGEMENT DISTRICT REPRESENTATIVES.
31. THE CONTRACTOR MUST CONSTRUCT AND MAINTAIN A PERMANENT STABLE PROTECTIVE COVER (GRASS) FOR EROSION AND SEDIMENT CONTROL ON ALL LAND SURFACES EXPOSED OR DISTURBED BY CONSTRUCTION OF THE PERMITTED PROJECT. THE PROTECTIVE COVER MUST BE INSTALLED WITHIN FOURTEEN DAYS AFTER FINAL GRADING OF THE AFFECTED LAND SURFACE. A PERMANENT STABLE COVER MUST BE ESTABLISHED WITHIN 60 DAYS OF ITS INSTALLATION.
32. THE CONTRACTOR SHALL INSTALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE CURRENT MUTCD.

GRADING NOTES

1. ALL PUBLIC WORKS CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF EULESS DESIGN AND TECHNICAL CONSTRUCTION STANDARDS MANUAL.
2. CONTRACTOR SHALL FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES BEFORE CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN) WITHIN SCOPE OF CONSTRUCTION. IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM AT HIS OWN EXPENSE.
3. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL PROVIDE AS-BUILT PLANS IDENTIFYING ALL DEVIATIONS OR VARIATIONS OF ORIGINAL PLANS.
4. ALL SPOT ELEVATIONS ARE PROPOSED PAVEMENT, OR TOP OF GRADE ELEVATIONS UNLESS OTHERWISE NOTED. TC= TOP OF CURB, EX= EXIST. GRADE.
5. THE CONTRACTOR SHALL PROTECT ALL MANHOLE COVERS, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, POWER POLES, GUY WIRES, AND TELEPHONE BOXES WHICH ARE TO REMAIN IN PLACE AND UNDISTURBED DURING CONSTRUCTION.
6. REFERENCE GEOTECH REPORT AND SPECIFICATIONS PREPARED BY CMJ ENGINEERING, INC. PROJECT NO. 119-09-10 DATED SEPTEMBER 18, 2009, FOR BUILDING PAD, PAVEMENT PREPARATION, COMPACTION, AND ALL EARTHWORK OPERATIONS.
7. ALL EXISTING CONCRETE PAVING, CHANNEL IMPROVEMENTS, SIDEWALK, STRUCTURES AND CURB DEMOLITION SHALL BE REMOVED IN THEIR ENTIRETY AND DISPOSED OF BY THE CONTRACTOR, OFFSITE UNLESS OTHERWISE DIRECTED BY THE OWNER, ARCHITECT OR ENGINEER.

WARNING: CONTRACTOR TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

STOP!
CALL BEFORE YOU DIG
DIG TESS
1-800-DIG-TESS
(at least 72 hours prior to digging)

WATER AND SANITARY SEWER GENERAL NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES WHERE PROPOSED UTILITIES ARE BEING CONNECTED, PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF A CONFLICT IS DISCOVERED.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN, COORDINATING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITY SERVICES ENTERING THE BUILDING AND/OR CROSSING OTHER UTILITIES.
3. ALL WATER AND SANITARY SEWER SERVICES SHALL TERMINATE 5 FEET OUTSIDE THE BUILDING UNLESS OTHERWISE NOTED AND THE END OF THESE SERVICES SHALL BE TIGHTLY PLUGGED OR CAPPED. SEE M.E.P. OR ARCHITECTURAL PLANS FOR CONTINUATION.
4. ALL WATER METERS, TAPS AND VALVES SHALL BE INSTALLED BY THE CONTRACTOR AFTER APPROVAL FROM THE CITY OF EULESS AND SHALL CONFORM TO ALL GUIDELINES AND REGULATIONS SET FORTH BY THE CITY OF EULESS "GENERAL DESIGN STANDARDS" FOR WATER AND SANITARY SEWER CONSTRUCTION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND IMPLEMENTING A TRENCH PROTECTION PLAN FOR ALL OPEN TRENCH EXCAVATION. THE PLAN SHALL BE PREPARED BY A PROFESSIONAL ENGINEER AND SUBMITTED TO THE CITY OF EULESS.
6. ALL APPURTENANCES USED FOR FIRE PROTECTION SHALL CONFORM TO THE CURRENT CITY OF EULESS "GENERAL DESIGN STANDARDS". REFER TO THE CITY OF EULESS "STANDARD DETAILS" FOR CONSTRUCTION GUIDELINES.
7. ALL SANITARY SEWER LINES SHALL MAINTAIN A MINIMUM COVER OF FIVE (5) FEET FROM TOP OF PIPE TO TOP OF GROUND OR PAVEMENT. WATER LINES 6"-12" IN DIAMETER SHALL MAINTAIN A MINIMUM COVER OF FOUR (4) FEET FROM TOP OF PIPE TO TOP OF GROUND OR PAVEMENT.
8. ALL SANITARY SEWER LINES W/ LESS THAN 10 FEET OF COVER SHALL BE PVC (SDR-35) PIPE. ALL DOMESTIC WATER LINES 12" AND SMALLER SHALL BE C900, DR-18. WATER SERVICES SHALL BE TYPE K COPPER TUBING.
9. CONTRACTOR TO SEQUENCE CONSTRUCTION AS TO AVOID INTERRUPTION OF WATER OF SANITARY SEWER SERVICE TO SURROUNDING AREAS.
10. CONTRACTOR TO REPLACE GRASS AND RESTORE PROPERTY TO ORIGINAL CONDITION IN ALL DISTURBED AREAS.
11. ALL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE DETAILS AND SPECIFICATIONS INCLUDED IN THE CITY OF EULESS GENERAL DESIGN STANDARDS MANUAL. REFER TO THE STANDARD DETAILS IN THE GENERAL DESIGN STANDARDS MANUAL FOR SPECIFIC MATERIALS, DIMENSIONS, AND CONSTRUCTION STANDARDS.
12. WATER MAIN TO BE ADJUSTED AROUND PROPOSED SANITARY AND STORM SEWER LINES TO MAINTAIN A MINIMUM OF 2.0 FEET OF VERTICAL SEPARATION. SEE DETAILS IN THE GENERAL DESIGN STANDARDS. CONTRACTOR TO MAINTAIN MINIMUM 2.0' SEPARATION FROM SANITARY SEWER AND STORM LINES.
13. EXISTING MANHOLE TOPS AND VALVE BOXES ARE TO BE ADJUSTED AS REQUIRED TO MATCH PROPOSED GRADES.
14. ALL WATER SERVICE CONNECTIONS SHALL COMPLY WITH CITY OF EULESS TYPICAL WATER SERVICE DETAIL
15. OCCUPANCIES SERVING FOOD WILL REQUIRE GREASE INTERCEPTORS. WHERE INTERCEPTORS ARE INSTALLED IN VEHICLE TRAFFIC AREAS, THEY MUST BE PLACED 100% BELOW THE PAVED SURFACE WITH ALL ACCESS EXTENSIONS CONSTRUCTED PER GENERAL DESIGN STANDARDS.
16. ON-SITE FIRE HYDRANTS SHALL BE LOCATED A MINIMUM OF TWO (2) FEET AND A MAXIMUM OF SIX (6) FEET BEHIND THE CURB LINE.

STORM SEWER NOTES

1. CONTRACTOR SHALL FIELD VERIFY THE VERTICAL AND HORIZONTAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND CONSTRUCTION MANAGER IMMEDIATELY IF A CONFLICT IS DISCOVERED.
2. CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS SHOWN, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF CURB INLETS, GRATE INLETS, AND ALL UTILITIES CROSSING THE STORM SEWER. FLOW LINES AND RIMS OF PROPOSED INLETS SHALL BE VERIFIED WITH THE PROPOSED GRADE PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE PROVIDED AN AUTOCAD R14 DISKETTE FOR USE IN CONSTRUCTION STAKING AND LAYOUT.
3. THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE STORM SEWER.
4. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL CONSTRUCTION PERMITS.
5. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
6. REFERENCE CITY OF EULESS "STANDARD DETAILS" FOR CONSTRUCTION OF NEW STORM SEWER SYSTEMS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND IMPLEMENTING A TRENCH PROTECTION PLAN FOR ALL OPEN TRENCH EXCAVATION.

EROSION CONTROL NOTES

1. ALL EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO SITE DISTURBANCE AND SHALL REMAIN IN PLACE UNTIL FINAL GRADING AND PAVING IS COMPLETE AND A STAND OF GRASS IS ESTABLISHED WITH 70% COVERAGE ACHIEVED.
2. CONSTRUCTION OPERATIONS SHALL BE MANAGED SO THAT AS MUCH OF THE SITE AS POSSIBLE IS LEFT COVERED WITH TOPSOIL AND VEGETATION.
3. ALL AREAS DISTURBED BY CONSTRUCTION OPERATIONS MUST BE SEEDED AND IRRIGATED UNTIL A PERMANENT STAND OF GRASS IS ACHIEVED WITH A MINIMUM OF 70% COVERAGE.
4. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL EROSION, CONSERVATION, AND SILTATION ORDINANCES. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF PERMANENT DRAINAGE AND THE ESTABLISHMENT OF A STAND OF GRASS SUFFICIENT TO PREVENT EROSION.
5. THE CONTRACTOR MUST USE SEDIMENT FILTERS OR OTHER MEASURES APPROVED BY THE ENGINEER AND CONSTRUCTION MANAGER TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM CLOGGING STORM SEWER PIPES OR PROPOSED OR EXISTING INLETS, OR FROM BEING TRANSPORTED TO ADJACENT PROPERTIES.
6. CONSTRUCTION ENTRANCE
   MINIMUM SIZE STONE: 2" DIAMETER
   THICKNESS: NOT LESS THAN 6"
   LENGTH: NOT LESS THAN 50'
   WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS AND EGRESS.
   MAINTENANCE REQUIREMENTS: AS NECESSARY TO PREVENT TRACKING OR FLOWING MUD INTO PUBLIC RIGHT-OF-WAY OR PARKING AREAS.
7. PLACE INLET PROTECTION AROUND ALL PROPOSED INLETS DURING CONSTRUCTION, AS INDICATED ON EROSION CONTROL PLAN.
8. SITE ENTRY AND EXIT LOCATIONS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAYS. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ON A PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY. WHEN WASHING IS REQUIRED TO REMOVE SEDIMENT PRIOR TO ENTRANCE TO A PUBLIC ROADWAY, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN. ALL FINES IMPOSED FOR TRACKING ONTO PUBLIC ROADS SHALL BE PAID BY THE CONTRACTOR.
9. EROSION CONTROLS SHALL BE REPAIRED OR REPLACED AS INSPECTION DEEMS NECESSARY, OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. ACCUMULATED SILT IN ANY EROSION CONTROL DEVICE SHALL BE REMOVED AND SHALL BE DISTRIBUTED ON SITE IN A MANNER NOT CONTRIBUTING TO ADDITIONAL SILTATION.
10. THE CONTRACTOR IS RESPONSIBLE FOR REESTABLISHING ANY EROSION CONTROL DEVICE DAMAGED DURING CONSTRUCTION. EACH CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DEFICIENCIES IN THE ESTABLISHED EROSION CONTROL MEASURES WHICH MAY LEAD TO UNAUTHORIZED DISCHARGE OR STORM WATER POLLUTION, SEDIMENTATION OR OTHER POLLUTANTS. UNAUTHORIZED POLLUTANTS INCLUDE, BUT ARE NOT LIMITED TO EXCESS CONCRETE DUMPING OR CONCRETE RESIDUE, PAINTS, SOLVENTS, GREASES, FUEL AND LUBE OIL, PESTICIDES, AND SOLID WASTE MATERIALS.
11. THE CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL USE FILTER BARRIER (OR OTHER METHOD APPROVED BY THE ENGINEER AND CITY) AS REQUIRED TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL EROSION, CONSERVATION, AND SILTATION ORDINANCES. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF PERMANENT DRAINAGE FACILITIES AND THE ESTABLISHMENT OF A STAND OF GRASS OR OTHER GROWTH TO PREVENT EROSION.
12. THE CONTRACTOR SHALL CONSTRUCT FILTER BARRIER, STRAW BALES OR OTHER APPROVED DEVICES PRIOR TO CONSTRUCTION TO PREVENT ADVERSE OFF SITE IMPACT OR STORM WATER QUALITY AND AS REQUIRED BY THE CITY OF EULESS. CONTRACTOR IS RESPONSIBLE FOR PROPER MAINTENANCE OF THE REQUIRED EROSION CONTROL DEVICES THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS.
13. CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL SILT AND DEBRIS OFF SITE FROM THE EXISTING ROADWAYS AND PROJECT SITE THAT ARE A RESULT OF THE PROPOSED CONSTRUCTION AS REQUIRED BY THE CITY OF EULESS.
14. CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION ENTRANCE AT ALL PRIMARY POINTS OF ACCESS. CONTRACTOR IS RESPONSIBLE FOR INSURING THAT ALL CONSTRUCTION TRAFFIC UTILIZES THE STABILIZED ENTRANCE AT ALL TIMES FOR INGRESS/EGRESS TO THE SITE.
15. THE CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. CONTRACTOR SHALL CONTROL DUST BY SPRINKLING WATER, OR BY OTHER MEANS APPROVED BY THE CITY AND ENGINEER, AT NO ADDITIONAL COST TO THE OWNER.
16. BEFORE ANY EARTHWORK COMMENCES, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF CONSTRUCTION AND OTHER ITEMS ESTABLISHED ON THE PLANS. THE CONTRACTOR SHALL PROTECT AND PRESERVE CONTROL POINTS AT ALL TIMES DURING THE COURSE OF THE PROJECT. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY ENGINEERING AND SURVEYING FOR LINE AND GRADE CONTROL POINTS RELATED TO EARTHWORK.
17. THE CONTRACTOR SHALL SALVAGE AND PROTECT ALL EXISTING POWER POLES, SIGNS, MANHOLES, TELEPHONE RISERS, WATER VALVES, ETC. DURING ALL CONSTRUCTION PHASES UNLESS NOTED OTHERWISE.
18. THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND MOISTURE CONDITION ALL FILL PER THE GEOTECHNICAL ENGINEER'S SPECIFICATIONS. ANY FILL MATERIAL TO BE USED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.
19. CONTRACTOR STAGING AREA TO BE AGREED UPON BY OWNER PRIOR TO CONSTRUCTION.

PAVING AND STRIPING NOTES

1. ON-SITE REINFORCED CONCRETE SHOULD HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3600 PSI AT 28 DAYS, AND A MINIMUM REINFORCING OF #3 BARS @ 18" O.C.E.W. AND SHALL STRICTLY ADHERE TO THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT. REINFORCED CONCRETE IN THE DRIVE APPROACHES SHOULD HAVE A COMPRESSIVE STRENGTH OF 4200 PSI AT 3 DAYS
2. ALL SUB-GRADE SHALL BE COMPACTED TO A MINIMUM OF 95 PERCENT OF ASTM D698 DENSITY NEAR OPTIMUM MOISTURE CONTENT (0% TO +5%) UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION PLANS OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
3. TESTING OF MATERIALS REQUIRED FOR THE CONSTRUCTION OF THE PAVING IMPROVEMENTS SHALL BE PERFORMED BY AN AGENCY, APPROVED BY THE OWNER, FOR TESTING MATERIALS. PROCUREMENT OF THE TESTING LABORATORY AND THE PAYMENT OF SUCH TESTING SERVICES SHALL BE MADE BY THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE, BY THE STANDARD TESTING PROCEDURES, THAT THE WORK CONSTRUCTED MEETS THE REQUIREMENTS OF THE CITY AND PROJECT SPECIFICATIONS.
4. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
5. CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS FOR FIRE LANES, PARKING STALLS, HANDICAPPED PARKING SYMBOLS, AND MISCELLANEOUS STRIPING WITHIN PARKING LOT AND AROUND BUILDING AS SHOWN ON THE PLANS. ALL PAINT FOR PAVEMENT MARKINGS SHALL ADHERE TO SECTION 2.9 OF THE NCTCOG STANDARD SPECIFICATIONS UNDER "TRAFFIC PAINT".
6. SEE MEP PLANS FOR LOCATION OF PROPOSED SLEEVING AND CONDUITS. CONTRACTOR TO COORDINATE WITH CITY OF EULESS PARKS AND RECREATION DEPARTMENT FOR DESIRED LOCATIONS OF IRRIGATION SLEEVING PRIOR TO CONSTRUCTION.
7. FIRE LANES SHALL BE DESIGNATED BY CONTINUOUS PAINTED CURBS OR LINES FOUR (6) INCHES IN WIDTH ON EACH SIDE OF THE FIRE LANE STARTING AT THE ENTRANCE FROM THE STREET AND TO BE CONTINUED TO THE EXIT. SUCH LINES SHALL BE BRIGHT RED IN COLOR.
8. CURBS ADJACENT TO FIRE LANES SHALL BE PAINTED BRIGHT RED IN COLOR FROM THE CURB'S GUTTER LINE TO THE BACK, ENTIRE TOP OF CURB.
9. THE WORDS "FIRE LANE" AND "NO PARKING" SHALL BE STENCILED IN FOUR (4) INCH HIGH WHITE LETTERS ALTERNATELY EVERY FIFTEEN (15) FEET ALONG THE RED FIRE LANE STRIPES IN THE FACE OF THE CURB.
10. REFERENCE GRADING PLAN, STRUCTURAL SPECIFICATIONS AND GEOTECH REPORT FOR BUILDING PAD PREPARATION AND COMPACTION.
11. ALL HANDICAP RAMPING, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT OF 1990.
12. ALL REGULAR PARKING SPACES ARE 9.0 FEET WIDE. ALL HANDICAP SPACES ARE 8.0 FEET WIDE WITH AN ADJACENT 5.0 FOOT WIDE STRIPED ZONE UNLESS NOTED OTHERWISE.
13. CONTRACTOR TO INSTALL CONSTRUCTION JOINTS IN CONCRETE PAVEMENT AT ALL PC'S AND AS CONVENIENT TO PHASING, WITH EXPANSION JOINTS EVERY 150 FEET IN BOTH DIRECTIONS AND SAWED DUMMY JOINTS EVERY 15 FEET IN BOTH DIRECTIONS.
14. CONTRACTOR TO SUBMIT A JOINTING PLAN TO THE ENGINEER AND OWNER PRIOR TO THE BEGINNING OF ANY PAVING WORK.
15. ALL EXISTING CONCRETE SHOWN TO BE REMOVED SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR OFF SITE.
16. CONSTRUCTION JOINTS SHALL BE REQUIRED AT INTERRUPTIONS OF PAVING OPERATIONS SUCH AS THOSE OCCURRING AT THE END OF THE DAY OR DUE TO WEATHER OR EQUIPMENT BREAKDOWN. PLACE AT LONGITUDINAL CONSTRUCTION OR ISOLATION JOINT LOCATIONS.
17. CONTRACTOR TO INSTALL CONSTRUCTION JOINTS IN CONCRETE PAVEMENT AT ALL PC'S AND AS CONVENIENT TO PHASING OF POURS. CONCRETE PAVEMENT TO BE CONSTRUCTED WITH ISOLATION JOINTS AROUND THE PERIMETER OF ANY BLOCK OUT IN PAVEMENT AND SAWED DUMMY JOINTS EVERY 12' IN BOTH DIRECTIONS.
18. ALL JOINTS ARE TO CONTINUE THROUGH THE CURB.
19. RADIAL JOINTS SHALL BE NO SHORTER THAN 24".
20. ALL CONSTRUCTION JOINTS SHALL BE SAWED, CLEANED OF DEBRIS, BLOWN DRY AND IMMEDIATELY SEALED WITH HOT POURED RUBBER JOINT SEALING COMPOUND.

STORM SEWER DISCHARGE AUTHORIZATION:

1. A NOTICE OF INTENT (NOI) SHALL BE SUBMITTED TO EPA BY THE CONTRACTOR NO LESS THAN TWO DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
2. ALL CONTRACTORS AND SUBCONTRACTORS PROVIDING SERVICES RELATED TO THE SWPPP SHALL SIGN A CONTRACTOR CERTIFICATION STATEMENT ACKNOWLEDGING THEIR RESPONSIBILITIES AS SPECIFIED IN THE SWPPP.
3. A COPY OF THE SWPPP, INCLUDING NOI'S, NOT'S, CONTRACTOR CERTIFICATIONS AND ANY REVISIONS, SHALL BE SUBMITTED TO THE CITY AND FILED WITH THE CONSTRUCTION PLANS, AND SHALL BE RETAINED ON-SITE DURING CONSTRUCTION.
4. A NOTICE OF TERMINATION (NOT) SHALL BE SUBMITTED TO EPA BY THE CONTRACTOR WHEN THE SITE HAS 100% OF THE DISTURBED AREAS STABILIZED AND THE SITE NO LONGER HAS STORM WATER DISCHARGE ASSOCIATED WITH INDUSTRIAL ACTIVATES (CONSTRUCTION), OR THE NOT PERMITTEE OF CO-PERMITTEE NO LONGER HOLDS THE CONTROL OF CONSECUTION.

LANDSCAPE AND IRRIGATION

1. LANDSCAPE MATERIALS SHALL BE INSTALLED IN ORDER TO MEET CITY OF EULESS REGULATIONS FOR SITE DEVELOPMENT.
2. ALL LANDSCAPE AREAS SHALL BE SERVICED BY AN AUTOMATIC IRRIGATION SYSTEM, AND INSTALLED BY A LICENSED TEXAS IRRIGATOR PER CITY OF EULESS STANDARDS.
3. ALL LANDSCAPE AND IRRIGATION ITEMS ASSOCIATED WITH THIS PROJECT WILL BE INSTALLED BY THE CITY OF EULESS PARKS AND RECREATION DEPARTMENT. CONTRACTOR SHALL COORDINATE WITH PARKS DEPARTMENT REGARDING SCHEDULE AND NEEDS FOR INSTALLATION. CONTACT: RAY MCDONALD (817) 685-1429.

No.	Date	Revisions	App.

Kimley-Horn and Associates, Inc.
TEXAS REGISTRATION NUMBER F-928
2201 West Royal Lane, Suite 275
Irving, Texas 75063
Tel. No. (214) 420-5600
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STATE OF TEXAS
ANNA L. CARRILLO
97350
LICENSED PROFESSIONAL ENGINEER
12/09/09

EULESS SENIOR CENTER
CITY OF EULESS, TX

GENERAL NOTES

Scale:	AS SHOWN
Designed by:	ABP
Drawn by:	ABP
Checked by:	MCH
Date:	DECEMBER 2009
Project No.	61061005

SHEET
C 1.0

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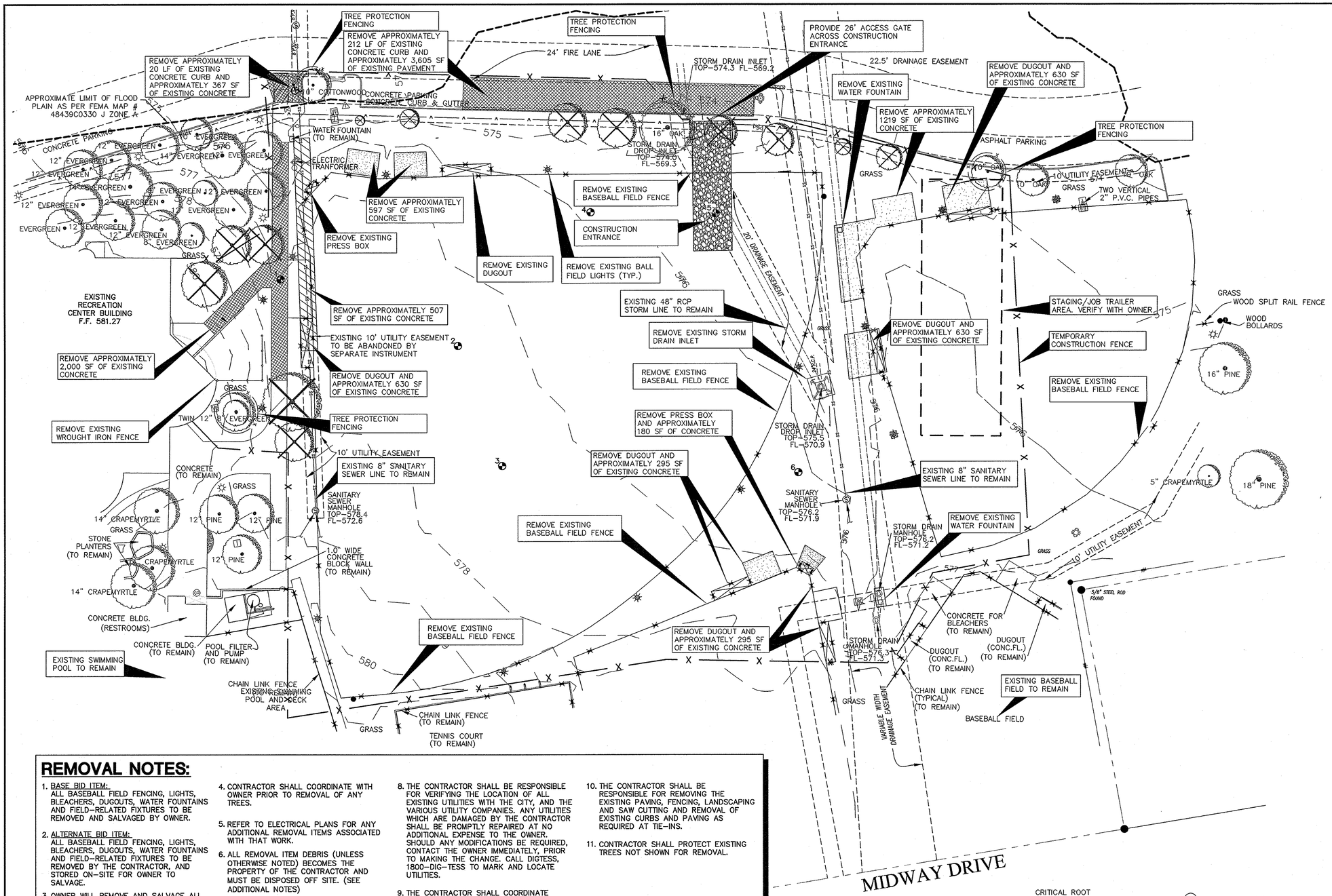


LEGEND:

- CONTOUR LINE
- WATER LINE
- SANITARY SEWER LINE
- GAS LINE
- WATER METER
- TEMPORARY CONSTRUCTION FENCE
- TREE PROTECTION FENCING
- BORE LOCATION
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- LIGHT POLE TO REMAIN
- LIGHT POLE TO BE REMOVED
- PAVING TO BE REMOVED

STOP!

CALL BEFORE YOU DIG

DIG TESS

1-800-DIG-TESS

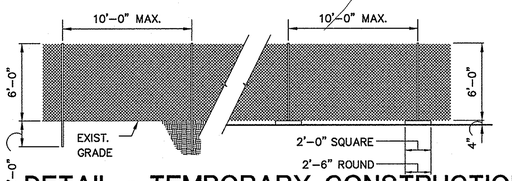
(at least 72 hours prior to digging)

CAUTION
EXISTING UNDERGROUND UTILITES. CONTRACTOR TO VERIFY EXACT LOCATION PRIOR TO ANY TRENCHING OR EXCAVATION.

NOTE:
REFER TO GEOTECHNICAL ENGINEERING REPORT PREPARED BY CMJ ENGINEERING, INC REPORT NUMBER 119-09-10 DATED SEPTEMBER 18, 2009.
CONTACT: JAMES SAPPINGTON (817) 284-9400

REMOVAL NOTES:

1. BASE BID ITEM:
   ALL BASEBALL FIELD FENCING, LIGHTS, BLEACHERS, DUGOUTS, WATER FOUNTAINS AND FIELD-RELATED FIXTURES TO BE REMOVED AND SALVAGED BY OWNER.
2. ALTERNATE BID ITEM:
   ALL BASEBALL FIELD FENCING, LIGHTS, BLEACHERS, DUGOUTS, WATER FOUNTAINS AND FIELD-RELATED FIXTURES TO BE REMOVED BY THE CONTRACTOR, AND STORED ON-SITE FOR OWNER TO SALVAGE.
3. OWNER WILL REMOVE AND SALVAGE ALL PAVESTONES AROUND THE SOUTH ENTRY OF BUILDING.
4. CONTRACTOR SHALL COORDINATE WITH OWNER PRIOR TO REMOVAL OF ANY TREES.
5. REFER TO ELECTRICAL PLANS FOR ANY ADDITIONAL REMOVAL ITEMS ASSOCIATED WITH THAT WORK.
6. ALL REMOVAL ITEM DEBRIS (UNLESS OTHERWISE NOTED) BECOMES THE PROPERTY OF THE CONTRACTOR AND MUST BE DISPOSED OFF SITE. (SEE ADDITIONAL NOTES)
7. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ALL FINAL QUANTITIES.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UTILITIES WITH THE CITY, AND THE VARIOUS UTILITY COMPANIES. ANY UTILITIES WHICH ARE DAMAGED BY THE CONTRACTOR SHALL BE PROMPTLY REPAIRED AT NO ADDITIONAL EXPENSE TO THE OWNER. SHOULD ANY MODIFICATIONS BE REQUIRED, CONTACT THE OWNER IMMEDIATELY, PRIOR TO MAKING THE CHANGE. CALL DIGTESS, 1800-DIG-TESS TO MARK AND LOCATE UTILITIES.
9. THE CONTRACTOR SHALL COORDINATE THE LIMITS OF REMOVAL WORK WITH THE OWNER.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING THE EXISTING PAVING, FENCING, LANDSCAPING AND SAW CUTTING AND REMOVAL OF EXISTING CURBS AND PAVING AS REQUIRED AT TIE-INS.
11. CONTRACTOR SHALL PROTECT EXISTING TREES NOT SHOWN FOR REMOVAL.



CHAIN LINK FENCE FABRIC IS TO BE 11 GAUGE HOT DIPPED ZINC COATED (GALVANIZED) IRON OR STEEL 6'-0" HIGH W/2 1/2" SQUARE DIAMOND. USE 8'-0" x 1 5/8" DIA. O.D. GALVANIZED IRON POSTS. CORNER AND GATE POSTS WILL BE 8'-0" x 2 3/4" DIA. O.D. ALL NON-MOVABLE FENCE POSTS TO BE SET IN A MIN. 2'-0" IN GROUND OR SET IN 4" THICK CONCRETE PAD 2'-0" SQUARE OR 2'-6" ROUND W/CORNER & GATE POSTS ADEQUATELY BRACED.

1 DETAIL - TEMPORARY CONSTRUCTION FENCE

N.T.S.

SURVEY NOTES:

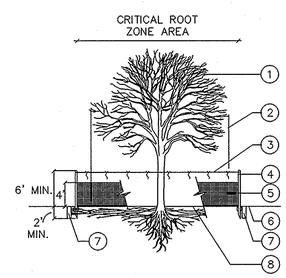
EXISTING TOPOGRAPHIC INFORMATION PROVIDED BY MOAK SURVEY INC., FROM AN ON-THE-GROUND SURVEY DURING THE MONTH OF JULY, 2009

BENCHMARK DESCRIPTIONS:

BM#1 -"X" CUT ON CONCRETE ON SOUTH SIDE OF MIDWAY DRIVE WEST OF NORTH EULESS MAIN STREET. SET-ELEVATION = 577.94

BM#2 -½" CAPPED STEEL ROD STAMPED "MOAK SURV INC." SET. BASE CONTROL MONUMENT
NORTH - 6993665.976 US FEET
EAST - 2403746.283 US FEET

BEARING SOURCE AND CONTROL IS RELATIVE TO THE CITY OF EULESS CONTROL NETWORK. EULESS CONTROL MONUMENT E19 NEAR INTERSECTION OF N. MAIN STREET AND HARWOOD ROAD USED FOR SITE CONTROL. ELEVATION 598.939



2 TREE PROTECTION DETAIL

N.T.S.

1. EXISTING TREE(S) TO REMAIN.
2. DRIPLINE OF EXISTING TREE (TYP)
3. CONTINUOUS NYLON TIE STRING TIED TO STAKE TOPS W/ 2' TUNDRA WEIGHT ORANGE STREAMERS @ 3' O.C.
4. 8' METAL T-STAKES: 8' O.C. MIN., DRIVEN 2' INTO GROUND AT (OR OUTSIDE) TREE DRIPLINE
5. 4' MIN. HEIGHT ORANGE PLASTIC FENCING INSTALLED PER MANF. RECOMMENDATIONS (TYP). SUPPLEMENT W/ SILT FENCE FABRIC @ PRUNING TRENCH AS REQ'D.
6. EXISTING GRADE TO BE DISTURBED.
7. ROOT PRUNING TRENCH 12" OUTSIDE FENCE - SEE NOTES.
8. EXISTING GRADE TO REMAIN.

NOTES:
1. PERFORM ROOT PRUNING ON ALL EXISTING TREES TO REMAIN WHERE CONSTRUCTION ACTIVITY FALLS WITHIN DRIP LINE OF EXISTING TREES.
2. ROOT PRUNING METHOD: 2 MONTHS MIN. PRIOR TO EXCAVATION & CONSTRUCTION ACTIVITIES, HAND CUT ROOTS BY DIGGING A 18"-24" DEEP x 8" WIDE TRENCH ALONG THE OUTSIDE PERIMETER OF EXISTING TREE(S) ADJACENT TO CONSTRUCTION AREAS. MAXIMIZE PRUNING TRENCH DISTANCE FROM TRUNK TO THE FULLEST EXTENT POSSIBLE, W/ THE ROOT PRUNING LINE PLACED @ THE EDGE OF CONSTRUCTION LIMITS.

No.	Date	Revisions	App.

Kimley-Horn and Associates, Inc.
TEXAS REGISTRATION NUMBER F-928
Tel. No. (214) 420-5600
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STATE OF TEXAS
ANNA L. CARRILLO
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LICENSED
PROFESSIONAL ENGINEER
12/9/09

EULESS SENIOR CENTER
CITY OF EULESS, TX

DEMOLITION PLAN

Scale: AS SHOWN
Designed by: ABP
Drawn by: ABP
Checked by: MCH
Date: DECEMBER 2009
Project No. 61061005

SHEET
C2.0

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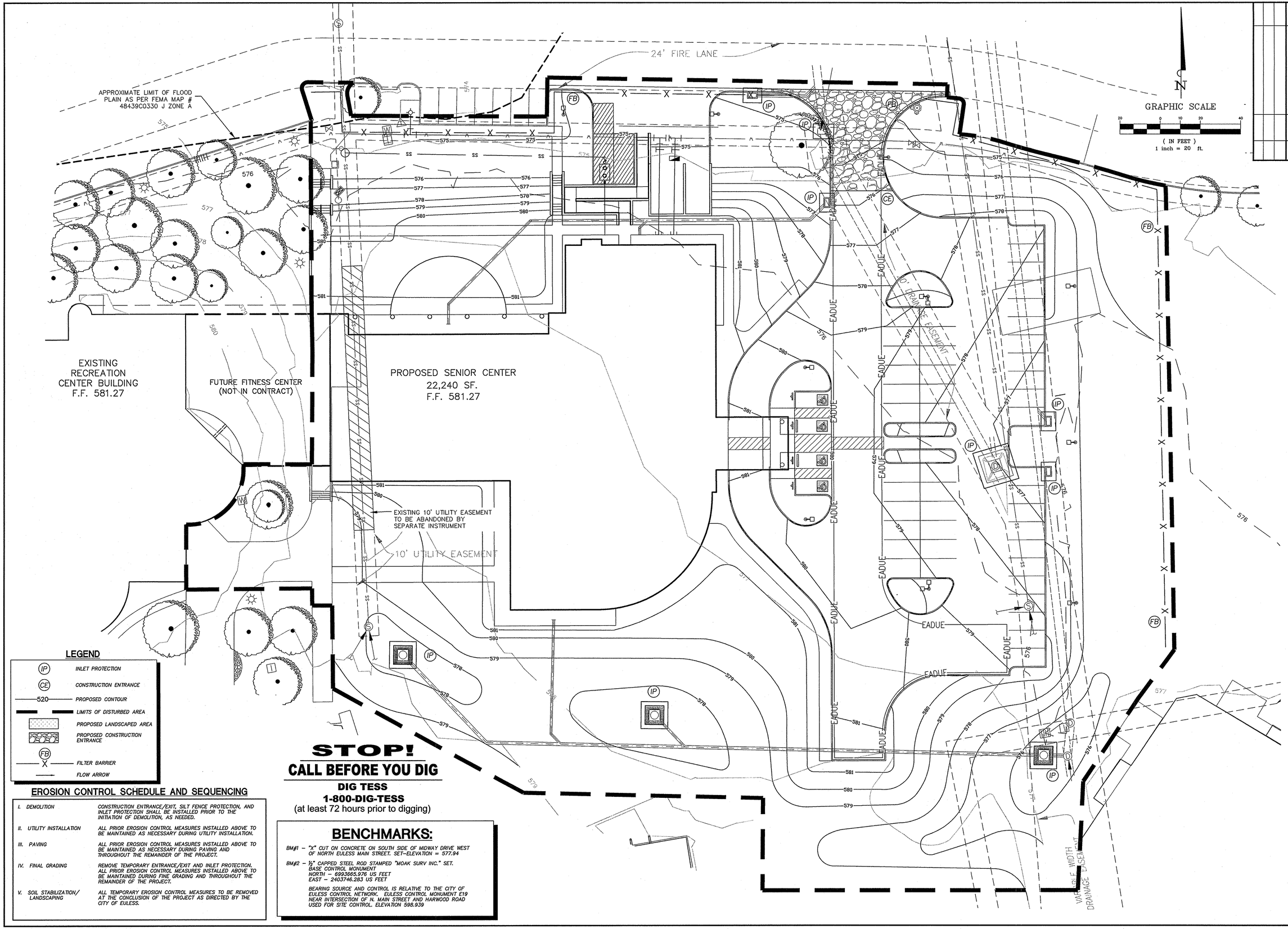

LEGEND

- IP — INLET PROTECTION
- CE — CONSTRUCTION ENTRANCE
- 520 — PROPOSED CONTOUR
- LIMITS OF DISTURBED AREA
- PROPOSED LANDSCAPED AREA
- PROPOSED CONSTRUCTION ENTRANCE
- FB — FILTER BARRIER
- FLOW ARROW

EROSION CONTROL SCHEDULE AND SEQUENCING

I. DEMOLITION	CONSTRUCTION ENTRANCE/EXIT, SILT FENCE PROTECTION, AND INLET PROTECTION SHALL BE INSTALLED PRIOR TO THE INITIATION OF DEMOLITION, AS NEEDED.
II. UTILITY INSTALLATION	ALL PRIOR EROSION CONTROL MEASURES INSTALLED ABOVE TO BE MAINTAINED AS NECESSARY DURING UTILITY INSTALLATION.
III. PAVING	ALL PRIOR EROSION CONTROL MEASURES INSTALLED ABOVE TO BE MAINTAINED AS NECESSARY DURING PAVING AND THROUGHOUT THE REMAINDER OF THE PROJECT.
IV. FINAL GRADING	REMOVE TEMPORARY ENTRANCE/EXIT AND INLET PROTECTION. ALL PRIOR EROSION CONTROL MEASURES INSTALLED ABOVE TO BE MAINTAINED DURING FINE GRADING AND THROUGHOUT THE REMAINDER OF THE PROJECT.
V. SOIL STABILIZATION/ LANDSCAPING	ALL TEMPORARY EROSION CONTROL MEASURES TO BE REMOVED AT THE CONCLUSION OF THE PROJECT AS DIRECTED BY THE CITY OF EULESS.

STOP!

CALL BEFORE YOU DIG

DIG TESS

1-800-DIG-TESS

(at least 72 hours prior to digging)

BENCHMARKS:

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STATE OF TEXAS
ANNA L. CARRILLO
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PROFESSIONAL ENGINEER
12/29/09

EULESS SENIOR CENTER
CITY OF EULESS, TX

EROSION CONTROL PLAN

Scale:	AS SHOWN
Designed by:	ABP
Drawn by:	ABP
Checked by:	MCH
Date:	DECEMBER 2009
Project No.	61061005

SHEET

C3.0

File: K:\AS_Lab\P\061061005\Dwg\Sr. Center DWG\Sheets\C-3.1 EROSION DETAILS.dwg [C-3] 12/29/2009 10:50am
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GENERAL NOTES

1. THE AREA OF DISTURBANCE FOR THIS PROJECT IS LARGER THAN 1 ACRE THEREFORE A NOTICE OF INTENT WILL BE REQUIRED. BEST MANAGEMENT PRACTICES (BMP'S) SHALL BE FOLLOWED.

2. ALL EROSION AND SEDIMENTATION CONTROLS MUST BE DESIGNED, INSTALLED AND MAINTAINED TO RETAIN SEDIMENT ON-SITE TO THE EXTENT PRACTICABLE.

3. ALL CONTROL MEASURES MUST BE SELECTED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS AND GOOD ENGINEERING PRACTICES.

4. OFF-SITE ACCUMULATIONS OF SEDIMENT ESCAPING PROJECT SITE MUST BE REMOVED AT A FREQUENCY NECESSARY TO MINIMIZE OFF-SITE IMPACTS. FOR EXAMPLE, SEDIMENTATION WITHIN STREETS ADJACENT TO THE PROJECT SITE MUST BE REMOVED PRIOR TO RAINFALL EVENTS. ALL FINES IMPOSED FOR TRACKING ONTO PUBLIC ROADS SHALL BE PAID BY THE CONTRACTOR. IN ANY EVENT SILT SHALL ALWAYS BE REMOVED SUCH THAT PONDING IN A STREET IS PREVENTED.

5. CONTRACTOR MUST REMOVE SEDIMENT FROM ALL APPLICABLE CONTROLS WHEN DESIGN SILT STORAGE CAPACITY HAS BEEN REDUCED BY 50%, UNLESS OTHERWISE NOTED.

6. CONTRACTOR SHALL ENSURE THAT ALL LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS ARE PREVENTED FROM BECOMING POLLUTANT SOURCES.

7. OFF-SITE MATERIAL STORAGE AREAS USED SOLELY FOR THIS PROJECT, INCLUDING DIRT STOCKPILES AND BORROW AREAS (AS APPLICABLE), MUST BE PREVENTED FROM BECOMING POLLUTANT SOURCES BY INSTALLATION OF BMP'S.

8. CONTRACTOR SHALL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE. CONTRACTOR SHALL ENSURE THAT ALL EXISTING TREES ARE PRESERVED AND NOT DAMAGED DURING ANY CONSTRUCTION RELATED ACTIVITIES.

9. DISTURBED PORTIONS OF SITE MUST BE STABILIZED. STABILIZATION PRACTICES MUST BE INITIATED WITHIN 14 DAYS IN PORTIONS OF THE SITE WHERE CONSTRUCTION HAS BEEN EITHER TEMPORARILY OR PERMANENTLY CEASED, UNLESS EXCEPTED WITHIN THE TPDES PERMIT.

10. CONTRACTOR MUST MAINTAIN RECORDS OF DATES IN THE SWPPP OF WHEN MAJOR GRADING ACTIVITIES OCCUR, WHEN CONSTRUCTION ACTIVITIES EITHER TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE, AND WHEN STABILIZATION MEASURES ARE INITIATED.

11. CONTRACTOR SHALL ENSURE THAT SWPPP IS CONSISTENT WITH SEDIMENT AND EROSION SITE PLANS, STORM WATER PERMITS, AND STORM WATER MANAGEMENT PLANS APPROVED BY STATE OR LOCAL OFFICIALS. UPDATES TO SWPPP ARE REQUIRED UPON WRITTEN NOTICE TO PERMITTEE OF CHANGES APPLICABLE TO STORM WATER PERMITS, SEDIMENT AND EROSION CONTROL PLANS, OR STORM WATER MANAGEMENT PLANS BY SUCH OFFICIALS.

12. ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND ANY OTHER PROTECTIVE MEASURES IDENTIFIED IN THE SWPPP MUST BE MAINTAINED IN EFFECTIVE OPERATING CONDITION. WHEN INSPECTIONS IDENTIFY CONTROLS OPERATING INEFFECTIVELY, THE CONTROLS SHALL BE MAINTAINED PRIOR TO THE NEXT RAINFALL EVENT OR AS NECESSARY TO MAINTAIN EFFECTIVENESS OF THE CONTROL, OR AS SOON AS PRACTICABLE.

13. CONTRACTOR SHALL INSPECT DISTURBED AREAS, MATERIAL STORAGE AREAS EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND VEHICLE ENTRY AND EXIT AREAS AT LEAST ONCE EVERY 14 CALENDAR DAYS AND WITHIN 24 HOURS OF A STORM EVENT OF 0.5 INCHES OR GREATER.

14. CONTRACTOR SHALL INSPECT STABILIZED AREAS AND AREAS WHERE RUNOFF IS UNLIKELY DUE TO FROZEN OR ARID WEATHER CONDITIONS AT LEAST ONCE PER MONTH.

15. CONTRACTOR SHALL INSPECT ACCESSIBLE DISCHARGE LOCATIONS (OR NEARBY DOWNSTREAM LOCATIONS IF DISCHARGE POINT IS NOT ACCESSIBLE) IN ORDER TO ASCERTAIN WHETHER OR NOT EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS.

16. STRUCTURAL BMP'S SHOULD NOT, TO THE DEGREE ATTAINABLE, BE PLACED WITHIN FLOODPLAINS.

17. BASED ON INSPECTION RESULTS, REVISIONS TO SWPPP MUST BE MADE WITHIN 7 CALENDAR DAYS OF THE INSPECTION. NEW OR MODIFIED CONTROL MEASURES MUST BE INSTALLED PRIOR TO THE NEXT RAINFALL EVENT, OR AS SOON AS PRACTICABLE.

18. REPORTS SUMMARIZING THE SCOPE OF ALL INSPECTIONS, INCLUDING NAME AND QUALIFICATIONS OF INSPECTOR, DATE OF INSPECTION, AND MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE SWPPP (INCLUDING LOCATION OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS, LOCATION OF CONTROLS THAT NEED TO BE MAINTAINED, LOCATIONS WHERE CONTROLS ARE INADEQUATE OR ARE OPERATING IMPROPERLY, AND LOCATIONS WHERE ADDITIONAL CONTROLS ARE NEEDED) MUST BE SIGNED BY THE INSPECTOR PER 30 TEXAS ADMINISTRATIVE CODE (TAC) SECTION 305.128, AND RETAINED WITHIN THE SWPPP FOR AT LEAST 3 YEARS FROM THE DATE THE SITE IS FINALLY STABILIZED. REPORTS THAT DO NOT IDENTIFY INCIDENTS OF NON-COMPLIANCE SHALL CONTAIN A CERTIFICATION STATING THAT THE SITE IS IN COMPLIANCE WITH THE SWPPP AND THE GENERAL PERMIT.

19. CONTRACTOR SHALL IDENTIFY ALL SOURCES OF NON-STORM WATER THAT WILL BE COMBINED WITH STORM WATER AT THE SITE (EXCEPT FIRE-FIGHTING ACTIVITIES) AND ENSURE IMPLEMENTATION OF APPROPRIATE POLLUTION PREVENTION MEASURES FOR NON-STORM WATER COMPONENT(S) OF DISCHARGE.

20. CONTRACTOR SHALL ENSURE THAT THE INDIVIDUAL SIGNING THE SWPPP MAKES THE CERTIFICATION UNDER PART VI.G.2.d OF THE GENERAL PERMIT. THIS CERTIFICATION MUST APPEAR WITHIN THE SWPPP.

SITE MAP-SITE SPECIFIC NOTES

1. CONSTRUCTION ENTRANCE SHALL BE LOCATED SO AS TO PROVIDE THE LEAST AMOUNT OF DISTURBANCE TO THE FLOW OF TRAFFIC IN AND OUT OF THE SITE. ADDITIONALLY, CONSTRUCTION ENTRANCE SHALL BE LOCATED TO COINCIDE WITH THE PHASING OF THE PAVEMENT REPLACEMENT.
2. THE NATURE OF THIS SITE'S CONSTRUCTION CONSISTS OF:
   A. DEMOLITION (SEE SHEET L-2)
   B. PRELIMINARY GRADING
   C. UTILITY INSTALLATION
   D. PAVEMENT CONSTRUCTION
   E. FINAL GRADING AND STABILIZATION
3. THE SUBSURFACE SOILS CONSIST GENERALLY OF CLAY. FILL SOILS MAY BE ENCOUNTERED TO DEPTHS OF ABOUT 6 TO 8 FEET BELOW EXISTING GRADE.
4. ALL STORM WATER ON-SITE WILL FLOW INTO UNICORN LAKE VIA THE EXISTING STORM SEWER SYSTE ALONG UNCORN LAKE BLVD.
5. NO SEDIMENTATION BASINS HAVE BEEN PROVIDED ON THIS SITE BECAUSE THE AREA OF DISTURBANCE IS LESS THAN 10.0 ACRES.
6. POST CONSTRUCTION STORM WATER POLLUTION CONTROL MEASURES INCLUDE STABILIZATION BY PERMANENT PAVING, DRAINAGE SYSTEM STRUCTURE, OR LANDSCAPING.
7. VELOCITY DISSIPATION DEVICES (RIP-RAP) WILL BE USED.
8. DISTURBED PORTIONS OF SITE MUST BE STABILIZED. STABILIZATION PRACTICES MUST BE INITIATED WITHIN 14 DAYS IN PORTIONS OF THE SITE WHERE CONSTRUCTION HAS BEEN EITHER TEMPORARILY OR PERMANENTLY CEASED, UNLESS EXCEPTED WITHIN THE NPDES PERMIT. CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF STABILIZATION OR PERMANENT DRAINAGE FACILITIES.
9. NO PORTION OF THE SUBJECT PROPERTY APPEARS TO LIE WITHIN A SPECIAL FLOOD HAZARD AREA ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY, FLOOD INSURANCE RATE MAPS COMMUNITY PANEL NO. 48121C0387 E, DATED APRIL 2, 1997.
10. CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE SWPPP/SITE MAP TO INCLUDE BMP'S FOR ANY OFF-SITE MATERIAL WASTE, BORROW OR EQUIPMENT STORAGE AREAS.
11. CONTRACTOR SHALL INSPECT DISTURBED AREAS, MATERIAL STORAGE AREAS EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND VEHICLE ENTRY AND EXIT AREAS AT LEAST ONCE EVERY 14 CALENDAR DAYS AND WITHIN 24 HOURS OF A STORM EVENT OF 0.5 INCHES OR GREATER.

SITE MAP-GENERAL NOTES

1. CONTRACTOR IS SOLELY RESPONSIBLE FOR SELECTION, IMPLEMENTATION, MAINTENANCE, AND EFFECTIVENESS OF ALL STORM WATER POLLUTANT CONTROLS – CONTROLS SHOWN ON THIS SITE MAP ARE SUGGESTED CONTROLS ONLY.
2. CONTRACTOR SHALL RECORD INSTALLATION, MAINTENANCE OR MODIFICATION, AND REMOVAL DATES FOR EACH BMP EMPLOYED (WHETHER CALLED OUT ON ORIGINAL SWPPP OR NOT) DIRECTLY ON THE SITE MAP.
3. DRAINAGE PATTERNS ARE SHOWN ON THIS PLAN BY PROPOSED AND EXISTING CONTOURS, FLOW ARROWS, AND SLOPES.
4. TEMPORARY AND PERMANENT STABILIZATION PRACTICES AND BMP'S SHALL BE INSTALLED AT THE EARLIEST POSSIBLE TIME DURING THE CONSTRUCTION SEQUENCE. AS AN EXAMPLE, PERIMETER SILT FENCE SHALL BE INSTALLED BEFORE COMMENCEMENT OF ANY GRADING ACTIVITIES. OTHER BMP'S SHALL BE INSTALLED AS SOON AS PRACTICABLE AND SHALL BE MAINTAINED UNTIL FINAL SITE STABILIZATION IS ATTAINED. CONTRACTOR SHALL ALSO REFERENCE CIVIL AND LANDSCAPE PLANS SINCE PERMANENT STABILIZATION IS PROVIDED BY LANDSCAPING, THE BUILDING(S), AND SITE PAVING.
5. BMP'S HAVE BEEN LOCATED AS INDICATED ON THIS PLAN IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES IN ORDER TO MINIMIZE SEDIMENT TRANSFER. FOR EXAMPLE: SILT FENCES LOCATED AT TOE OF SLOPE AND INLET PROTECTION FOR INLETS RECEIVING SEDIMENT FROM SITE RUN-OFF.

VEGETATIVE STABILIZATION REQUIREMENTS

TEMPORARY SEEDING

1. ALL DISTURBED AREAS WHICH WILL BE LEFT DORMANT FOR GREATER THAN 14 DAYS SHALL BE SEEDED WITH FAST-GERMINATING TEMPORARY VEGETATION IMMEDIATELY FOLLOWING GRADING OPERATIONS. SELECTION OF THE SEED WILL DEPEND ON THE TIME OF YEAR IT IS APPLIED (SEE DESCRIPTIONS IN TABLE 2). REFERENCE LANDSCAPE PLAN FOR PERMANENT STABILIZATION REQUIREMENTS.

TABLE 2
VEGETATION TABLE*

TEMPORARY SEEDING

SPECIES	PLANTING RATE	PLANTING-DATES
CRIMSON CLOVER	7#/ACRE	8/15 – 11/30
MILLET, FOXTAIL	30#/ACRE	5/1 – 8/31
RYEGRASS, ANNUAL	30#/ACRE	8/15 – 9/30
SPRANGLETOP, GREEN	2.5#/ACRE	2/1 – 5/1
TALL FESCUE	7#-10#/1000 SF	9/1 – 10/15

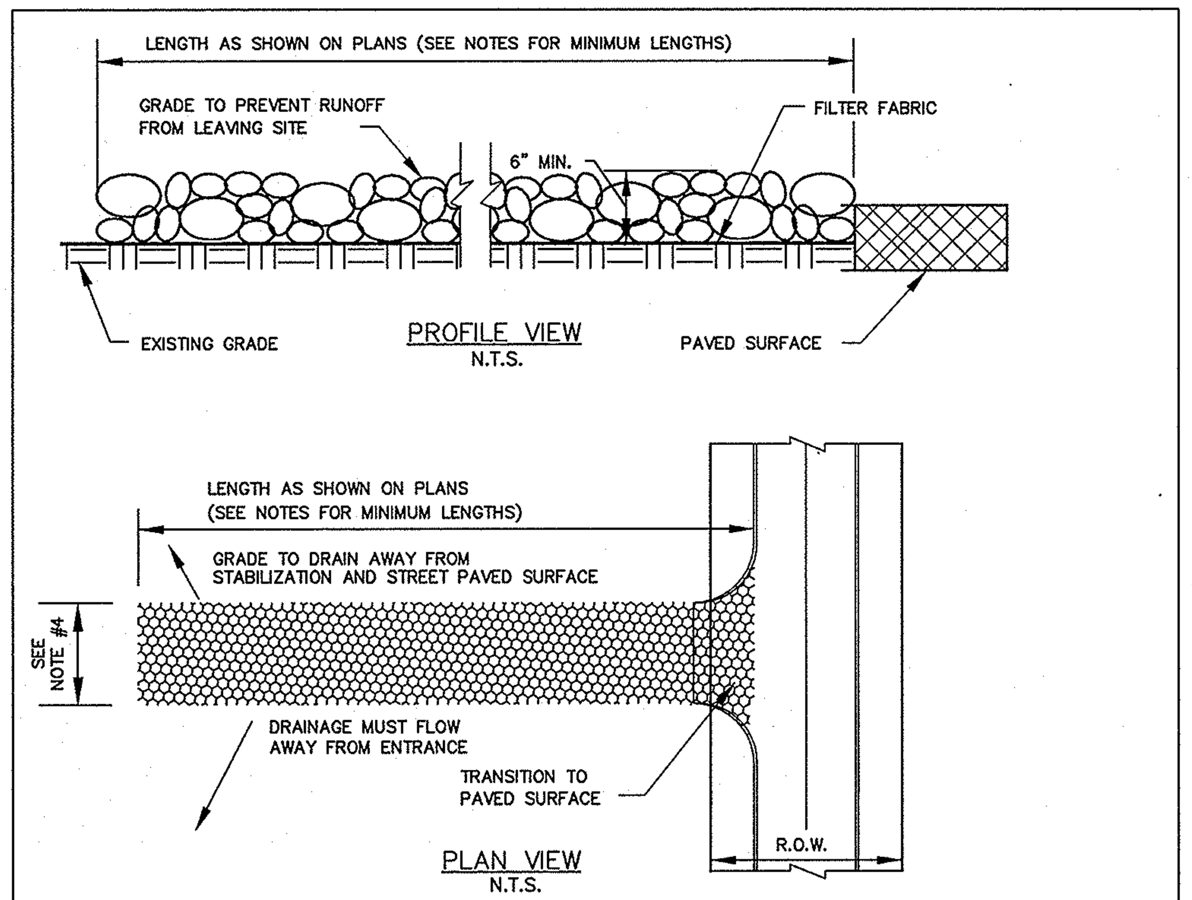
*USE ONLY USDA CERTIFIED SEED.

SURFACE PREPARATION FOR TEMPORARY SEEDING

1. INSTALL EROSION STRUCTURES SUCH AS DIKES, DIVERSIONS, ETC. PRIOR TO SEEDING.
2. FURROW SLOPES STEEPER THAN 3:1 ON THE CONTOUR LINE BEFORE SEEDING.
3. ENSURE SEED BED IS PULVERIZED, LOOSE, AND UNIFORM.

APPLICATION

1. WHEN HYDROMULCHING IS USED, DO NOT MIX SEED AND FERTILIZER MORE THAN 30 MINUTES PRIOR TO APPLICATION.
2. APPLY SEED EVENLY USING PROPER EQUIPMENT AND WATER TO AID VEGETATION GROWTH.
3. EROSION CONTROL NETTING SHALL BE INSTALLED OVER FILL SLOPES WHICH HAVE BEEN BROUGHT TO FINAL GRADE AND HAVE BEEN SEEDED TO PROTECT AGAINST EROSION. MULCH (STRAW OR FIBER) SHALL BE USED ON RELATIVELY FLAT SLOPES.



PLAN VIEW
N.T.S.

STABILIZED CONSTRUCTION ENTRANCE

STABILIZED CONSTRUCTION ENTRANCE GENERAL NOTES:

1. STONE SHALL BE 3 TO 5 INCH DIAMETER CRUSHED ROCK OR ACCEPTABLE CRUSHED PORTLAND CEMENT CONCRETE.

2. LENGTH SHALL BE SHOWN ON PLANS, WITH A MINIMUM LENGTH OF 30 FEET FOR LOTS WHICH ARE LESS THAN 150 FEET FROM EDGE OF PAVEMENT. THE MINIMUM DEPTH IN ALL OTHER CASES SHALL BE 50 FEET.

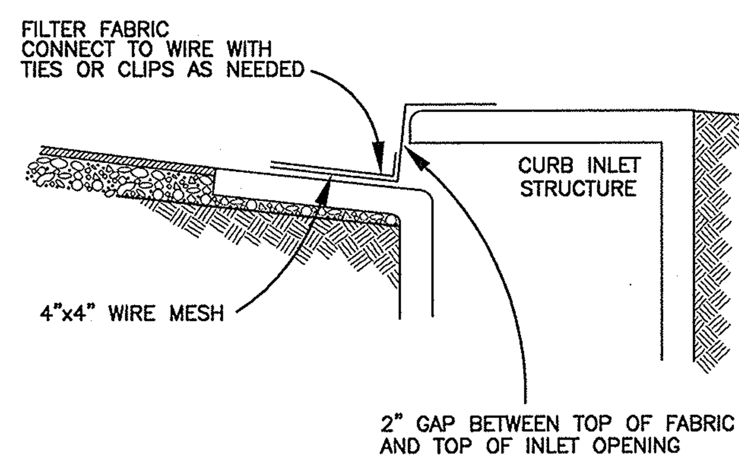
3. STONE LAYER THICKNESS SHALL NOT BE LESS THAN 6 INCHES.

4. THE WIDTH SHALL BE NO LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.

5. WHEN NECESSARY, VEHICLES SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO A PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WITH DRAINAGE FLOWING AWAY FROM BOTH THE STREET AND THE STABILIZED ENTRANCE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.

6. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED SURFACES. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PAVED SURFACES MUST BE REMOVED IMMEDIATELY.

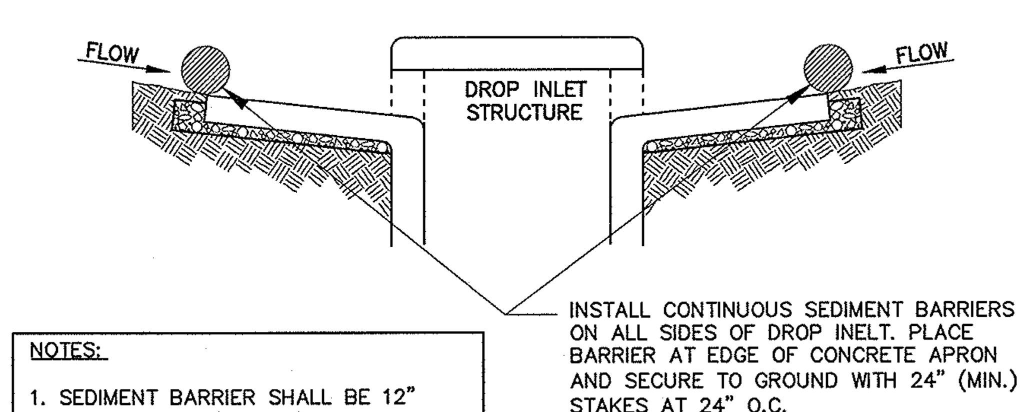
7. THE ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.



INLET SECTION

TYPE C CURB INLET PROTECTION

INLET PROTECTOR DETAILS
N.T.S.
(IP)



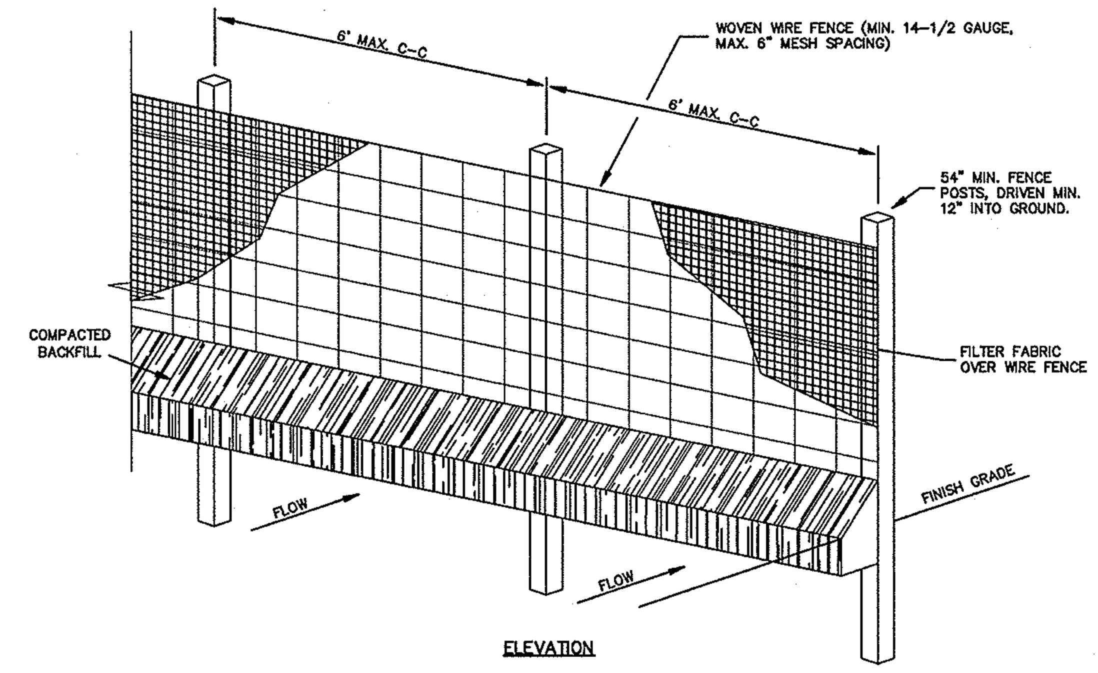
NOTES:

1. SEDIMENT BARRIER SHALL BE 12" STRAW WATTLES (WS1210) BY NORTH AMERICAN GREEN, TRIANGULAR GABION DIKE W/ STEEL CAGE (MINIMUM 10" BASE AND 5" HEIGHT) OR APPROVED EQUAL.

2. REFERENCE EROSION CONTROL PLAN, SHEET C3.0 FOR INLET LOCATIONS.

TYPE Y DROP INLET PROTECTION

INLET PROTECTOR DETAILS
N.T.S.
(IP)



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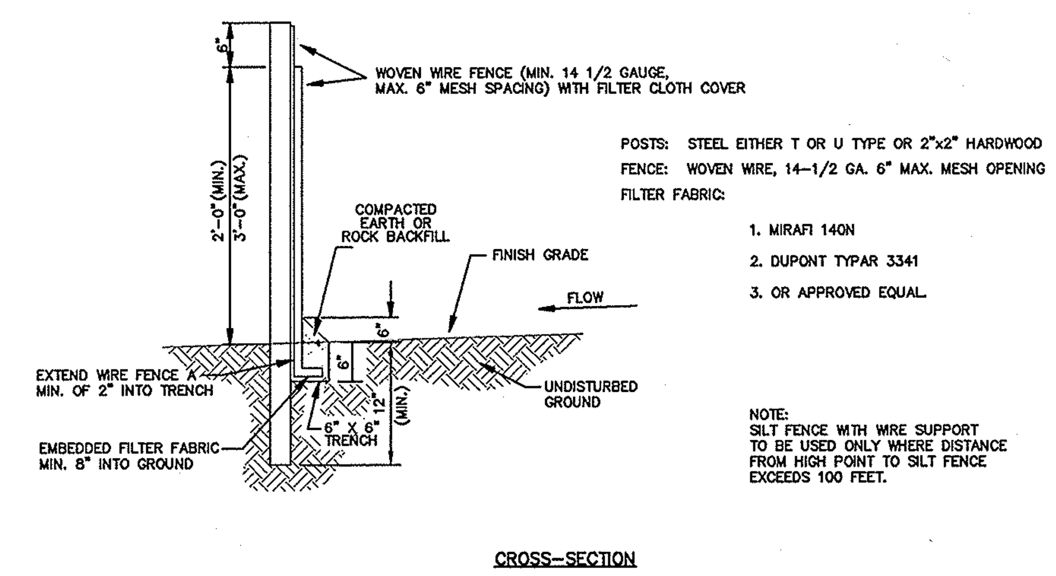


CROSS-SECTION

SEDIMENTATION/SILT FENCE WITH WIRE SUPPORT
N.T.S.

TO BE LOCATED AT (FB) SYMBOL – SEE EROSION CONTROL PLAN

SILT FENCE GENERAL NOTES

1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.

2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (e.g. PAVEMENT), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.

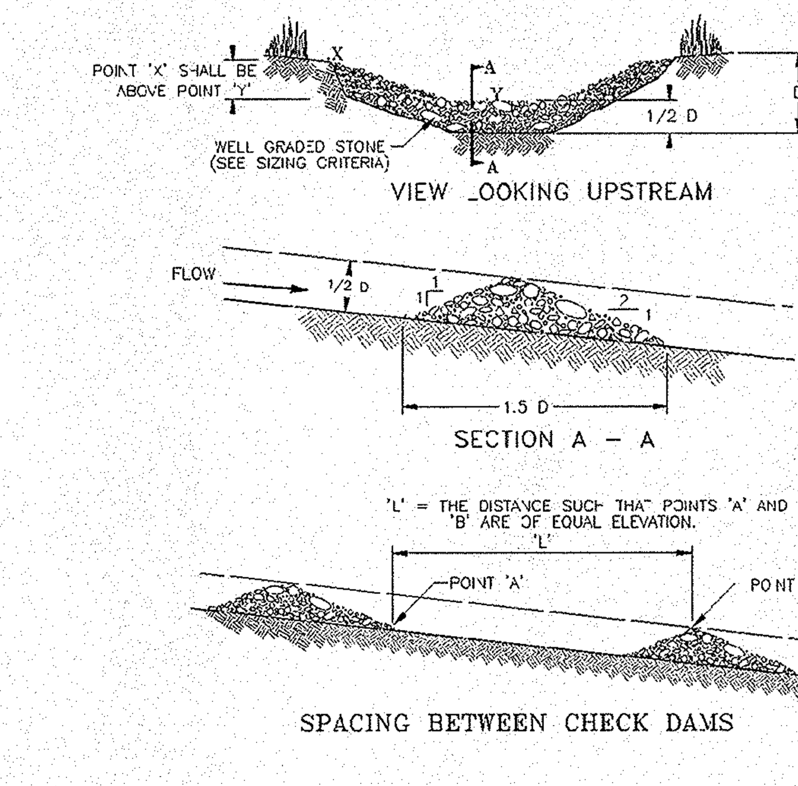
3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.

4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE BY USING WIRE TIES OR STAPLES SPACED EVERY 24" AT TOP AND MID SECTION, WHICH IN TURN IS ATTACHED TO THE STEEL FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.

5. INSPECTION SHALL BE MADE EVERY TWO WEEKS AND AFTER EACH 1/2" RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.

6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.



ROCK CHECK DAM
N.T.S.
(RD)

No.	Date	Revisions	App.

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C3.1

File: K:\LAC_LALP\61061005\Dwg\Sr. Center DWG\Sheets\C-3.1 EROSION DETAILS.dwg [C-6] 12/8/2009 5:58pm
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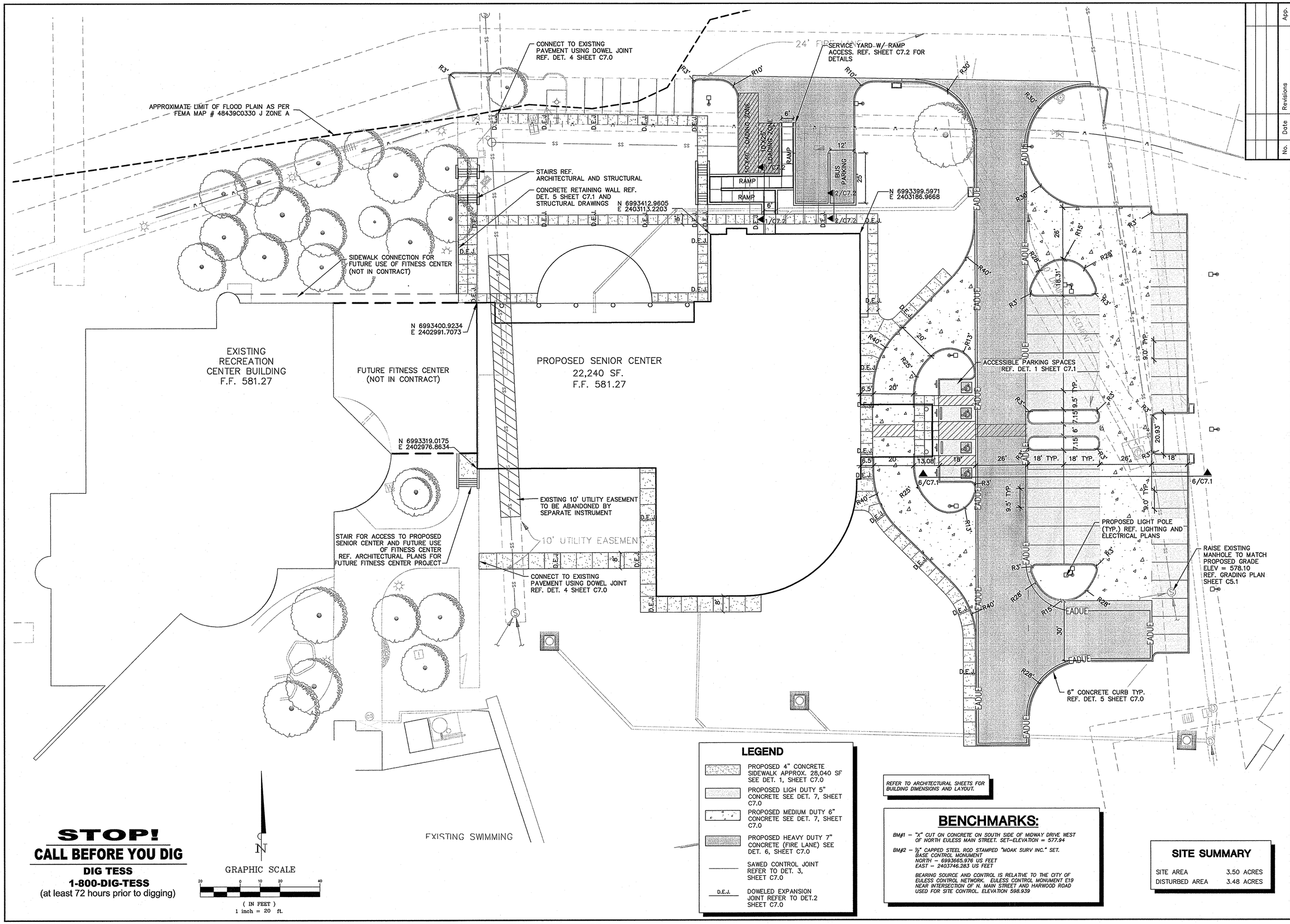


STOP!

CALL BEFORE YOU DIG

DIG TESS

1-800-DIG-TESS

(at least 72 hours prior to digging)

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.

LEGEND

- PROPOSED 4" CONCRETE SIDEWALK APPROX. 28,040 SF SEE DET. 1, SHEET C7.0
- PROPOSED LIGH DUTY 5" CONCRETE SEE DET. 7, SHEET C7.0
- PROPOSED MEDIUM DUTY 6" CONCRETE SEE DET. 7, SHEET C7.0
- PROPOSED HEAVY DUTY 7" CONCRETE (FIRE LANE) SEE DET. 6, SHEET C7.0
- SAWED CONTROL JOINT REFER TO DET. 3, SHEET C7.0
- D.E.J. — DOWELED EXPANSION JOINT REFER TO DET.2 SHEET C7.0

REFER TO ARCHITECTURAL SHEETS FOR BUILDING DIMENSIONS AND LAYOUT.

BENCHMARKS:

BM#1 – "X" CUT ON CONCRETE ON SOUTH SIDE OF MIDWAY DRIVE WEST OF NORTH EULESS MAIN STREET. SET–ELEVATION = 577.94

BM#2 – ½" CAPPED STEEL ROD STAMPED "MOAK SURV INC." SET. BASE CONTROL MONUMENT
NORTH – 6993665.976 US FEET
EAST – 2403746.283 US FEET

BEARING SOURCE AND CONTROL IS RELATIVE TO THE CITY OF EULESS CONTROL NETWORK. EULESS CONTROL MONUMENT E19 NEAR INTERSECTION OF N. MAIN STREET AND HARWOOD ROAD USED FOR SITE CONTROL. ELEVATION 598.939

SITE SUMMARY

SITE AREA	3.50 ACRES
DISTURBED AREA	3.48 ACRES

No.	Date	Revisions	App.

Kimley-Horn and Associates, Inc.
TEXAS REGISTRATION NUMBER F-928
Tel. No. (214) 420-5600
Fax No. (214) 420-5680
2201 West Royal Lane, Suite 275
Irving, Texas 75063

STATE OF TEXAS
ANNA L. CARRILLO
97350
LICENSED
PROFESSIONAL ENGINEER
12/09/09

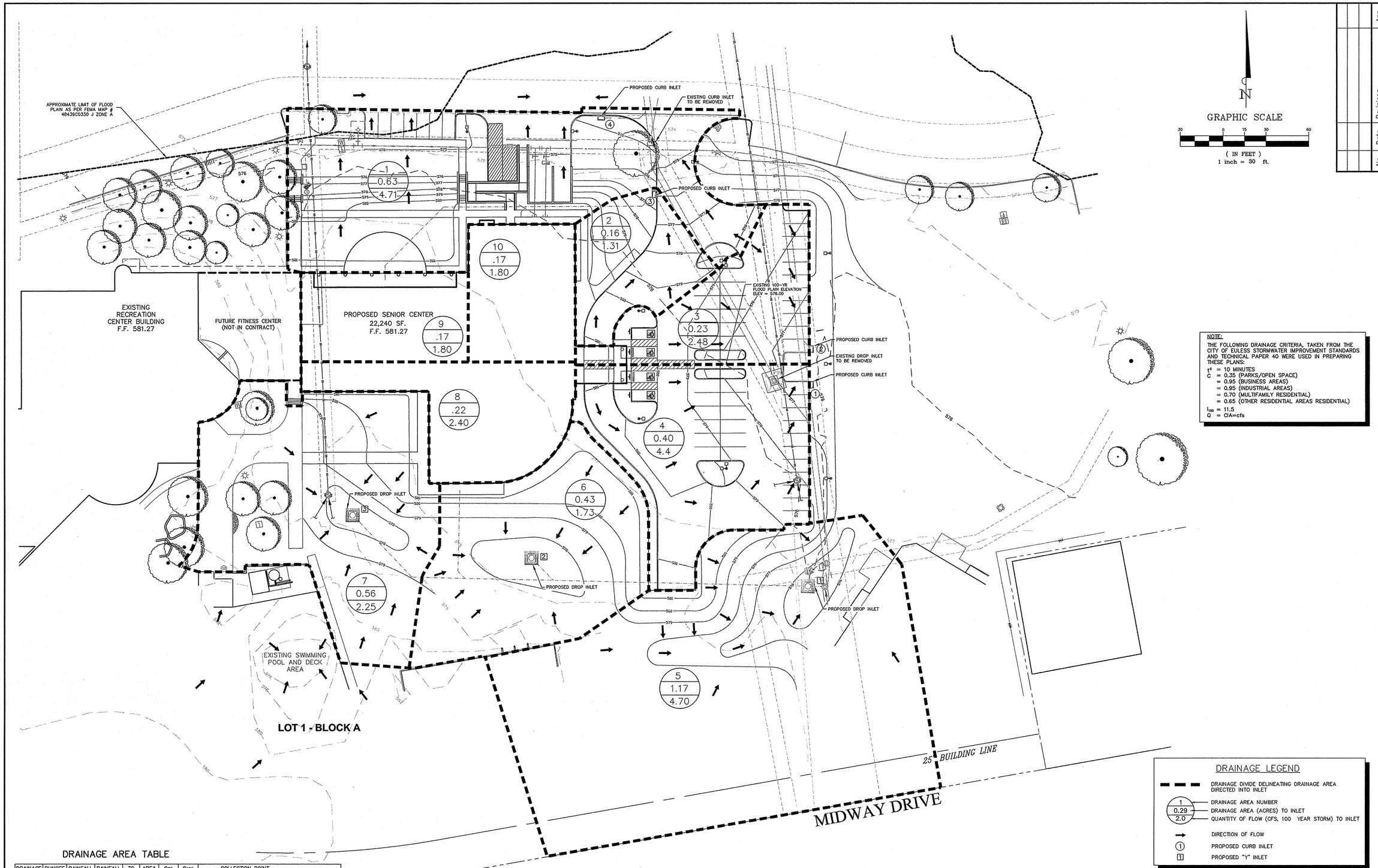
EULESS SENIOR CENTER
CITY OF EULESS, TX

PAVING AND DIMENSION CONTROL PLAN

Scale: AS SHOWN
Designed by: ABP
Drawn by: ABP
Checked by: MCH
Date: DECEMBER 2009
Project No. 61061005

SHEET
C4.0

File: K:\AFC-LAP\061005\Dwg\Sr. Center DWG\Sheets\C-4.0 OVERALL SITE PLAN.dwg [C-1] 12/9/2009 10:50am
Xrefs: s2436 nelle survey xdbg xdbl xLarge xlnt
Images: D1891941087.tif new detail.jpg



NOTE:

THE FOLLOWING DRAINAGE CRITERIA, TAKEN FROM THE CITY OF EULESS STORMWATER IMPROVEMENT STANDARDS AND TECHNICAL PAPER 40 WERE USED IN PREPARING THESE PLANS:

t^c = 10 MINUTES
C = 0.35 (PARKS/OPEN SPACE)
= 0.95 (BUSINESS AREAS)
= 0.95 (INDUSTRIAL AREAS)
= 0.70 (MULTIFAMILY RESIDENTIAL)
= 0.65 (OTHER RESIDENTIAL AREAS RESIDENTIAL)
I_{100} = 11.5
Q = CIA=cfs

DRAINAGE LEGEND

- DRAINAGE DIVIDE DELINEATING DRAINAGE AREA DIRECTED INTO INLET
- 1 — DRAINAGE AREA NUMBER
- 0.29 — DRAINAGE AREA (ACRES) TO INLET
- 2.0 — QUANTITY OF FLOW (CFS, 100 YEAR STORM) TO INLET
- DIRECTION OF FLOW
- (1) PROPOSED CURB INLET
- [1] PROPOSED "Y" INLET

DRAINAGE AREA TABLE

DRAINAGE AREA NO.	RUNOFF COEFF. "C"	RAINFALL INTENSITY "I"25	RAINFALL INTENSITY "I"100	TC (MIN.)	AREA (AC.)	Q25 (CFS)	Q100 (CFS)	COLLECTION POINT
1	0.65	9.4	11.5	10	0.63	3.85	4.71	PROPOSED ON-SITE CURB INLET 4
2	0.71	9.4	11.5	10	0.16	1.06	1.31	PROPOSED ON-SITE CURB INLET 3
3	0.95	9.4	11.5	10	0.23	2.05	2.48	PROPOSED ON-SITE CURB INLET 2
4	0.95	9.4	11.5	10	0.40	3.57	4.40	PROPOSED ON-SITE CURB INLET 1
5	0.35	9.4	11.5	10	1.17	3.85	4.70	PROPOSED ON-SITE DROP INLET 1
6	0.35	9.4	11.5	10	0.43	1.41	1.73	PROPOSED ON-SITE DROP INLET 2
7	0.35	9.4	11.5	10	0.56	1.84	2.25	PROPOSED ON-SITE DROP INLET 3
8	0.95	9.4	11.5	10	0.22	1.96	2.40	PROPOSED ON-SITE DROP INLET VIA ROOF DRAIN
9	0.95	9.4	11.5	10	0.17	1.51	1.80	PROPOSED ON-SITE DROP INLET VIA ROOF DRAIN
10	0.95	9.4	11.5	10	0.17	1.51	1.80	PROPOSED ON-SITE DROP INLET VIA ROOF DRAIN

NOTE: REFER TO SHEET C-5.1 FOR PROPOSED GRADING.

STOP!

CALL BEFORE YOU DIG

DIG TESS

1-800-DIG-TESS

(at least 72 hours prior to digging)

BENCHMARKS:

BM#1 – "X" CUT ON CONCRETE ON SOUTH SIDE OF MIDWAY DRIVE WEST OF NORTH EULESS MAIN STREET. SET-ELEVATION = 577.94

BM#2 – ½" CAPPED STEEL ROD STAMPED "MOAK SURV INC." SET.
BASE CONTROL MONUMENT
NORTH – 6993665.976 US FEET
EAST – 2403746.283 US FEET

BEARING SOURCE AND CONTROL IS RELATIVE TO THE CITY OF EULESS CONTROL NETWORK. EULESS CONTROL MONUMENT E19 NEAR INTERSECTION OF N. MAIN STREET AND HARWOOD ROAD USED FOR SITE CONTROL. ELEVATION 598.939

No.	Date	Revisions	App.

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STATE OF TEXAS
ANNA L. CARRILLO
97350
LICENSED
PROFESSIONAL ENGINEER
12/2/09

EULESS SENIOR CENTER
CITY OF EULESS, TX

DRAINAGE AREA MAP

Scale: AS SHOWN
Designed by: ABP
Drawn by: ABP
Checked by: MCH
Date: DECEMBER 2009
Project No. 61061005

SHEET
C5.0

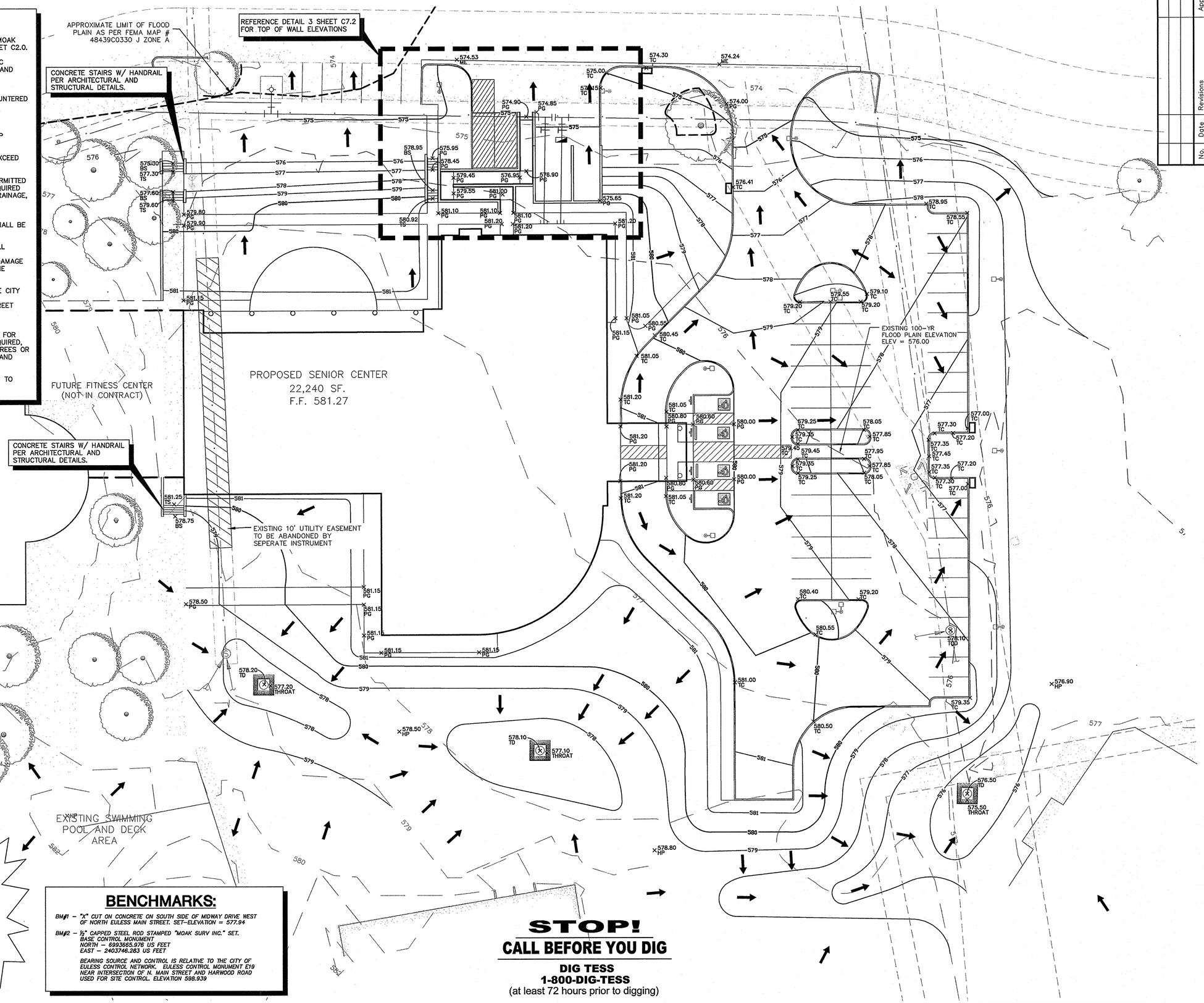
File: K:\AUS-LAND\61061005\Dwg\Dr. Center DWG\Sheet\C-5.0 DRAI.dwg [C-2] 12/2/2009 10:51am
Xrefs: 12438 site bdsg survey xrfed 4018 Exhibit-TopoAerial Imagesel: 01891401BT.tif new dental.jpg

GRADING NOTES

1. EXISTING TOPOGRAPHIC INFORMATION PROVIDED BY MOAK SURVEY INC. – REFER TO EXISTING CONDITIONS SHEET C2.0.
2. THE CONTRACTOR SHALL EMPLOY A LICENSED PUBLIC SURVEYOR TO SET ALL GRADES, SPOT ELEVATIONS, AND FLOWLINES.
3. SHOULD ANY MODIFICATIONS BE REQUIRED TO THE PROPOSED SPOT GRADES DUE TO CONDITIONS ENCOUNTERED IN THE FIELD, CONTACT THE CITY AND LANDSCAPE ARCHITECT IMMEDIATELY AND PRIOR TO MAKING ANY CHANGES.
4. CROSSLOPES ON WALKS AND PARKWAY AT HANDICAP ACCESSIBLE POINTS SHALL NOT EXCEED 2% MAX. .
5. LONGITUDINAL SLOPES ON ALL WALKS SHALL NOT EXCEED 5% MAX.
6. NO DEPRESSIONS, "BIRD BATHS", ETC. SHALL BE PERMITTED IN THE PAVING. SHOULD ANY MODIFICATIONS BE REQUIRED TO THE PROPOSED GRADES TO ACHIEVE POSITIVE DRAINAGE, CONTACT THE OWNER AND LANDSCAPE ARCHITECT IMMEDIATELY.
7. ALL MANHOLES, CLEANOUTS, VALVE BOXES, ETC., SHALL BE ADJUSTED TO MATCH PROPOSED GRADES.
8. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES. SHOULD ANY UTILITIES BE DAMAGED, THE CONTRACTOR SHALL PROMPTLY REPAIR ANY SUCH DAMAGE AT NO ADDITIONAL EXPENSE TO THE OWNER AND THE VARIOUS UTILITY COMPANIES.
9. BEARING SOURCE AND CONTROL IS RELATIVE TO THE CITY OF EULESS CONTROL NETWORK. EULESS CONTROL MONUMENT E19 NEAR INTERSECTION OF N. MAIN STREET AND HARWOOD ROAD USED FOR SITE CONTROL.
10. PRIOR TO PLACING WALKWAYS AND PICNIC PADS, CONTRACTOR WILL STAKE ALIGNMENT AND LOCATION FOR REVIEW BY CITY AND LANDSCAPE ARCHITECT. IF REQUIRED, THE WALK ALIGNMENT WILL BE ADJUSTED TO MISS TREES OR ACHIEVE THE PROPER GRADIENTS. MINOR CLEARING AND PRUNING OF TREES WILL BE DONE BY THE CITY.
11. CONTRACTOR TO VERIFY EXISTING ELEVATIONS PRIOR TO CONSTRUCTION AND NOTIFY CITY AND LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.

LEGEND

657	PROPOSED CONTOUR
657	EXISTING CONTOUR
	FLOW ARROWS
TC	TOP OF CURB
TW	TOP OF WALL
BW	BOTTOM OF WALL
ME	MATCH EXISTING
TD	TOP OF DRAIN
HP	HIGH POINT
W	WATER LINE
	PROPOSED TYPE "Y" INLET
	PROPOSED 5' CURB INLET
	EXISTING TREE
	TREE PROTECTION FENCING (SEE DETAIL 2/L-4)



WARNING!!!

EXISTING FRANCHISE UTILITIES IN THE AREA. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL EXISTING UTILITIES WITH THE PROVIDER PRIOR TO START OF CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS DISCOVERED. CONTRACTOR IS RESPONSIBLE FOR COORDINATING FRANCHISE UTILITY RELOCATION WHERE NECESSARY AND PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN).

BENCHMARKS:

BM#1 – "X" CUT ON CONCRETE ON SOUTH SIDE OF MIDWAY DRIVE WEST OF NORTH EULESS MAIN STREET. SET-ELEVATION = 577.94

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ANNA L. CARRILLO
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LICENSED
PROFESSIONAL ENGINEER
12/10/09

EULESS SENIOR CENTER
CITY OF EULESS, TX

GRADING AND DRAINAGE PLAN

Scale:	AS SHOWN
Designed by:	ABP
Drawn by:	ABP
Checked by:	MCH
Date:	DECEMBER 2009
Project No.	61061005

SHEET
C5.1

File: K:\JAC_LAJ\061005\Dwg\Sv_Center DWG\Sheets\C-5.1 GRADING AND DRAINAGE.dwg [L-2] 12/9/2009 10:52am
Xrefs: xsurvey xatts xbldg xcsh_ignrvy x2436 xgrad xutil
Images: 0180140180.tif me earlib.jpg

APPROXIMATE LIMIT OF FLOOD PLAIN AS PER FEMA MAP # 48439C0330 J ZONE A

LINE D
18" STORM SEWER @ 1.00%

STA. 0+00.00
CONNECT TO
EXISTING 48" RCP
FL 48"= 569.07
FL 18"= 570.32

STA. 0+05.00
INSTALL:
45° BEND
FL = 570.37

STA. 0+31.38
INSTALL: 5'
CURB INLET
TOP = 574.30
FL = 570.63

STA. 0+07.00
INSTALL: 5'
CURB INLET
TOP = 576.50
FL = 570.72

EXISTING CURB INLET
TO BE REMOVED
TOP = 574.30
FL = 569.20

EXISTING DROP INLET
TO BE REMOVED
TOP = 574.00
FL = 569.30

STA. 1+60.47
INSTALL: 45°
BEND AND
CLEANOUT
FL = 572.51

STA. 1+06.70
PIPE SIZE CHANGE
INSTALL:
12"X18" REDUCER
FL 12"= 571.95
FL 18"= 571.70

STA. 1+01.70
INSTALL:
WYE
FL 12"= 571.93
FL 18"= 571.68

LINE C
18" STORM SEWER
@ 1.00%

STA. 0+00.00
CONNECT TO
EXISTING 48" RCP
FL 48"= 569.4
FL 18"= 570.65

STA. 0+19.70
INSTALL:
45° BEND
FL = 570.85

LATERAL C1
12" STORM SEWER @ 1.00%

LINE C
12" STORM SEWER @ 1.00%

STA. 0+05.13
INSTALL:
45° BEND
AND
CLEANOUT
FL = 571.98

STA. 0+08.76
STUB OUT 5'
FROM BUILDING
FOR ROOF
DRAIN
CONNECTION
FL = 572.01

STA. 2+28.59
STUB OUT 5' FROM
BUILDING FOR ROOF
DRAIN CONNECTION
FL = 573.19

STA. 2+18.59
INSTALL:
45° BEND AND
CLEANOUT
FL = 573.09

EXISTING
RECREATION
CENTER BUILDING
F.F. 581.27

FUTURE FITNESS CENTER
(NOT IN CONTRACT)

PROPOSED SENIOR CENTER
22,240 SF.
F.F. 581.27

EXISTING 10' UTILITY EASEMENT
TO BE ABANDONED BY
SEPERATE INSTRUMENT

EXISTING 42" RCP

EXISTING 48" RCP

EXISTING 100-YR
FLOOD PLAIN ELEVATION
ELEV = 576.00

STA. 0+00.00
CONNECT TO
EXISTING 42"
RCP
FL 42"= 569.84
FL 18"= 570.84

LINE B
18" STORM SEWER @ 1.00%

STA. 0+06.93
INSTALL: 5'
CURB INLET
TOP = 577.00
FL = 570.90

EXISTING SANITARY
SEWER MANHOLE TO BE
RAISED.
TOP = 576.2
FL = 571.9

INSTALL: 5' CURB
INLET AND CONNECT
TO EXISTING 42"
STORM DRAIN PIPE
WITH 15" HDPE.
TOP = 577.00
FL 42"= 569.94

EXISTING SANITARY
SEWER MANHOLE TO BE
RAISED.
TOP = 576.2
FL = 571.9

STA. 0+63.63
STUB OUT 5'
FROM BUILDING
FOR ROOF
DRAIN
CONNECTION
FL = 573.68

EXISTING SANITARY
SEWER MANHOLE TO
REMAIN
TOP = 578.40
FL = 572.60

STA. 0+21.90
INSTALL:
TYPE "Y" INLET
TOP OF GRATE = 578.10
THROAT = 577.10
FL = 572.94

LATERAL A2
12" STORM SEWER @ 1.00%

STA. 0+07.01
INSTALL:
45° BEND AND
CLEANOUT
FL = 573.11

LATERAL A1
12" STORM SEWER @ 1.00%

INSTALL 1-INLINE
CLEANOUT

STA. 3+47.77
INSTALL:
TYPE "Y" INLET
TOP OF GRATE = 578.20
THROAT = 577.20
FL = 573.28

LINE A
18" STORM SEWER @ 0.5%

EXISTING STORM DRAIN
MANHOLE TO REMAIN
TOP = 576.20
FL = 571.20

EXISTING STORM DRAIN
MANHOLE TO REMAIN
TOP = 576.30
FL = 571.30

STA. 0+00.00
CONNECT TO EXISTING
MANHOLE
FL = 571.55

STA. 0+09.84
INSTALL:
TYPE "Y" INLET
TOP OF GRATE = 576.30
THROAT = 575.30
FL = 571.60

STA. 2+87.69
INSTALL:
45° BEND
FL = 572.98

STA. 2+50.48
INSTALL:
WYE
FL 12" = 573.04
FL 18" = 572.79

STA. 1+88.54
INSTALL:
WYE
FL 12"= 572.74
FL 18"= 572.49

EXISTING SWIMMING
POOL AND DECK
AREA

EXISTING TENNIS
COURTS

LEGEND:

SS	EXISTING SANITARY SEWER
W	EXISTING WATER LINE
	EXISTING REUSE WATER LINE
	EXISTING STORM DRAIN
OHE	EXISTING POWER LLINES
	EXISTING MANHOLE
	EXISTING POWER POLE
	EXISTING WATER VALVE
	WATER LINE
	WATER VALVE
	WATER METER
	FIRE HYDRANT
	STORM SEWER LINE
	4'X4' TYPE "Y" INLET W/ 1.5' APRON INSTALLED PER TXDOT STANDARDS FOR HORIZONTAL INLETS TYPE H W/ LID

N

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.

WARNING!!!

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STOP!

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DIG TESS
1-800-DIG-TESS
(at least 72 hours prior to digging)

NOTE:

1. CONTRACTOR SHALL PROVIDE PROPER EMBEDMENT AND BACKFILL FOR PIPES AND TRENCHES. ALL PIPE TRENCHES SHALL HAVE CRUSHED STONE OR GRANULAR EMBEDMENT COMPACTED TO 90%–95% MAXIMUM DRY DENSITY, AND SOIL BACKFILL PLACED IN 4"–6" LIFTS, AND COMPACTED TO 95%–100% ASTM D–698, PER THE SPECIFICATIONS AND THE GEOTECHNICAL REPORT.

No.	Date	Revisions	App.

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STATE OF TEXAS
ANNA L. CARRILLO
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LICENSED
PROFESSIONAL ENGINEER
12/10/09

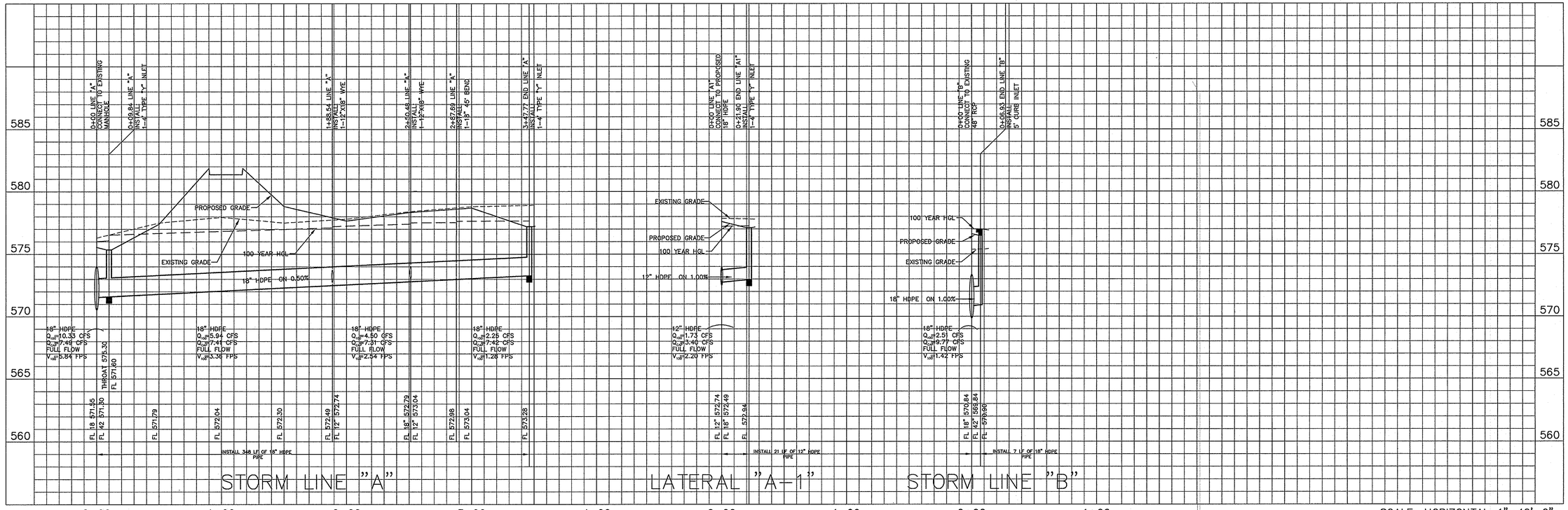
EULESS SENIOR CENTER
CITY OF EULESS, TX

STORM DRAIN PLAN

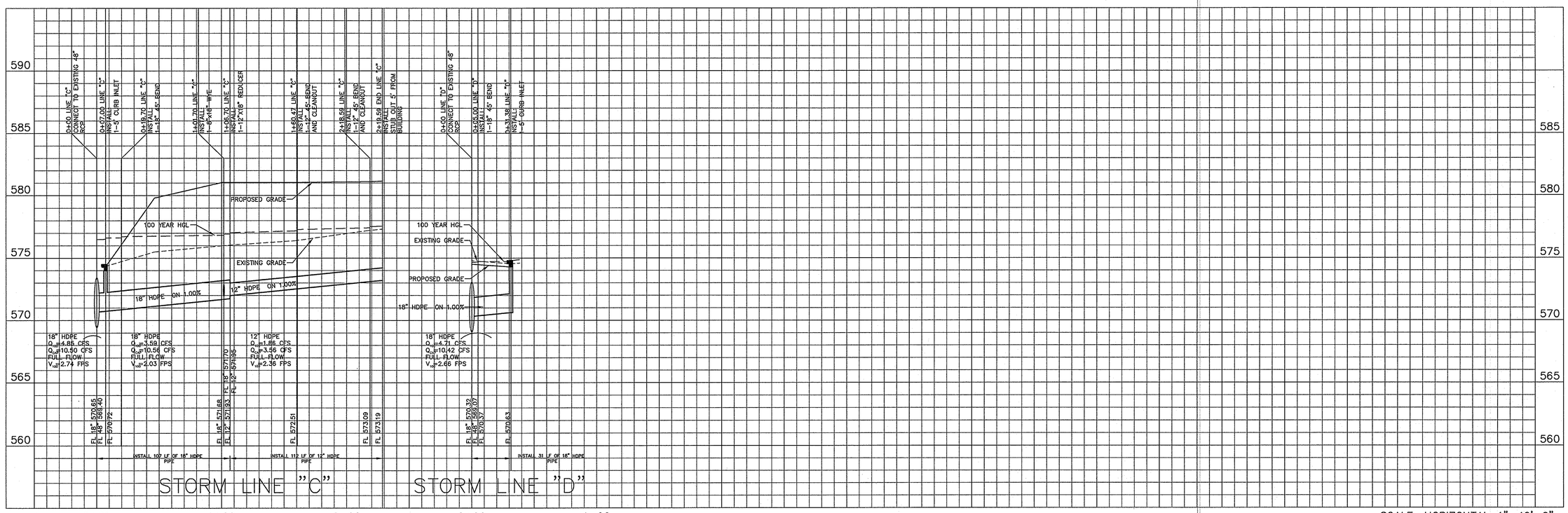
Scale: AS SHOWN
Designed by: ABP
Drawn by: ABP
Checked by: MCH
Date: DECEMBER 2009
Project No. 61061005

SHEET
C5.2

File: K:\ARC_LAP\061061005\dwg\Sp. Center DWG\Sheet\C-5.2 STORM SEWER PLAN.dwg [L-2] 12/7/2009 10:52am
Xrefs: survey xatts xbdg xsolid_parv xz436 xgrid xUtil Images: DVB91400187.tif new aerial.jpg



SCALE: HORIZONTAL=1"=40'-0"
VERTICAL=1"=4'-0"



SCALE: HORIZONTAL=1"=40'-0"
VERTICAL=1"=4'-0"

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STATE OF TEXAS
ANNA L. CARRILLO
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PROFESSIONAL ENGINEER
12/09/09

EULESS SENIOR CENTER
CITY OF EULESS, TX

STORM DRAIN PROFILES

Scale:	AS SHOWN
Designed by:	ABP
Drawn by:	ABP
Checked by:	MCH
Date:	DECEMBER 2009
Project No.	61061005

SHEET
C5.3

File: P:\JAC-JAX\61061005\Dwg\Sheets\C-5.3 STORM SEWER PROFILES.dwg [C5.3] 12/9/2009 7:22am
Xrefs: x2436
Images:

100 YEAR STORM CALCULATIONS

Storm Drain Hydraulic Calculations Table

From	To	Pipe Length	Drainage Area Incremental No.	Drainage Area Incremental Area acres	Drainage Area Total Area acres	Runoff "c"	Incr. cA	Total cA	Time of Concentration Inlet	Time of Concentration Travel	Time of Concentration Total	100-year Intensity	Design Storm	Q100 Runoff	Q pipe	Pipe Size Diameter	Sf	HGL U/S Elev.	HGL D/S Elev.	Head Loss Calculations V1 (in)	V2 (out)	$V1^2/2g$	$V2^2/2g$	Kj	$KjV1^2/2G$	Hk	Design HGL	Invert Elev. From	Invert Elev. To	T/C Elev.	
		ft							min.	min.	min.	in/hr	Years	cfs	cfs	In.	ft/ft	Elev.	Elev.	ft/s	ft/s	ft	ft		ft	ft	Elev.	ft	ft	ft	Comments
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
LINE A																															
STA. 3+47.77 INSTALL: CATCH BASIN	STA. 2+87.69 INSTALL: 45° BEND	60.08	DA 7	0.56	0.56	0.35	0.20	0.20	10.00	0.79	10.79	11.50	100	2.25	2.25	18	0.0005	577.70	577.67		1.28		0.03	1.25		0.10	577.80	573.53	573.23	578.20	
STA. 2+87.69 INSTALL: 45° BEND	STA. 2+50.48 INSTALL: WYE	32.21			0.56			0.20	10.79	0.44	11.22	11.10	100	2.18	2.18	18	0.0004	577.57	577.55	1.28	1.23	0.03	0.02	0.35	0.01	0.10	577.67	573.23	573.06		
STA. 0+63.63 STUB OUT 5' FROM BUILDING	STA. 0+07.01 INSTALL: 45° BEND	56.62	DA 8	0.22	0.22	0.95	0.21	0.21	10.00	0.31	10.31	11.50	100	2.40	2.40	12	0.0045	577.81	577.55		3.06		0.15	1.25		0.18	577.99	573.68	573.11		
STA. 0+07.01 INSTALL: 45° BEND	STA. 0+00 LAT A-2 INSTALL WYE	7.01			0.22			0.21	10.31	0.04	10.35	11.50	100	2.40	2.40	12	0.0045	577.45	577.42	3.06	3.06	0.15	0.15	0.35	0.05	0.10	577.55	573.11	573.04		
STA. 2+50.48 INSTALL: WYE	STA. 1+88.54 INSTALL:WYE	61.94			0.78			0.41	11.29	0.41	11.69	11.10	100	4.50	4.50	18	0.0018	577.32	577.21	3.06	2.54	0.15	0.10	0.75	0.11	0.10	577.42	572.79	572.49		
STA. 0+21.90 INSTALL: CATCH BASIN	STA. 0+00 LAT A-1 INSTALL WYE	21.90	DA 6	0.43	0.43	0.35	0.15	0.15	10.00	0.17	10.17	11.50	100	1.73	1.73	12	0.0024	577.26	577.21		2.20		0.08	1.25		0.10	577.36	572.94	572.74	577.10	
STA. 1+88.54 INSTALL:WYE	STA. 0+09.84 INSTALL: CATCH BASIN	178.70			1.21			0.56	11.69	0.89	12.58	10.70	100	5.94	5.94	18	0.0032	577.11	576.54	2.54	3.36	0.10	0.18	0.75	0.08	0.10	577.21	572.49	571.60		
STA. 0+09.84 INSTALL: CATCH BASIN	STA. 0+00 CONNECT TO EXISTING MANHOLE	9.84	DA 5	1.17	2.38	0.35	0.41	0.97	12.58	0.03	12.61	10.70	100	10.33	10.33	18	0.0097	576.09	576.00	3.36	5.84	0.18	0.53	0.5	0.09	0.44	576.54	571.60	571.55	576.30	
LINE B-1																															
INSTALL: 5' CURB INLET	STA. 0+00 CONNECT TO EXISTING 42" RCP	31.00	DA 4	0.40	2.78	0.35	0.14	1.11	14.96	0.09	15.04	9.70	100	10.72	10.72	18	0.0104	577.32	577.00		6.07		0.57	1.25		0.10	577.42	569.94	569.84	577.00	
LINE B-2																															
STA. 0+06.93 INSTALL: 5' CURB INLET	STA. 0+00 CONNECT TO EXISTING 42" RCP	6.93	DA 3	0.23	0.23	0.95	0.22	0.22	10.00	0.08	10.08	11.50	100	2.51	2.51	18	0.0006	577.00	577.00		1.42		0.03	1.25		0.10	577.10	570.90	570.84	577.00	
LINE C																															
STA. 2+28.59 STUB OUT 5' FROM BUILDING	STA. 2+18.59 INSTALL: 45° BEND	10.00	DA 9	0.17	0.17	0.95	0.16	0.16	10.00	0.07	10.07	11.50	100	1.86	1.86	12	0.0027	577.56	577.53		2.36		0.09	1.25		0.11	577.67	573.19	573.09		
STA. 2+18.59 INSTALL: 45° BEND	STA. 1+60.47 INSTALL: 45° BEND	58.12			0.17			0.16	10.07	0.41	10.48	11.50	100	1.86	1.86	12	0.0027	577.43	577.27	2.36	2.36	0.09	0.09	0.35	0.03	0.10	577.53	573.09	572.51		
STA. 1+60.47 INSTALL: 45° BEND	STA. 1+06.70 PIPE SIZE CHANGE INSTALL: 12"X18" REDUCER	53.77			0.17			0.16	10.48	0.38	10.86	11.50	100	1.86	1.86	12	0.0027	577.17	577.03	2.36	2.36	0.09	0.09	0.35	0.03	0.10	577.27	572.51	571.95		
STA. 1+06.70 PIPE SIZE CHANGE INSTALL: 12"X18" REDUCER	STA. 1+01.70 INSTALL: WYE	5.00			0.17			0.16	10.86	0.08	10.94	11.50	100	1.86	1.86	18	0.0003	576.93	576.93	2.36	1.05	0.09	0.02	0.29	0.03	0.10	577.03	571.70	571.68		
STA. 0+08.76 STUB OUT 5' FROM BUILDING	STA. 0+05.13 INSTALL: 45° BEND	3.63	DA 10	0.17	0.17	0.95	0.16	0.16	10.00	0.03	10.03	11.50	100	1.86	1.86	12	0.0027	577.05	577.04		2.36		0.09	1.25		0.11	577.16	572.01	571.98		
STA. 0+05.13 INSTALL: 45° BEND	STA. 0+00 LAT C-1 INSTALL WYE	5.13			0.17			0.16	10.03	0.04	10.06	11.50	100	1.86	1.86	12	0.0027	576.94	576.93	2.36	2.36	0.09	0.09	0.35	0.03	0.10	577.04	571.98	571.93		
STA. 1+01.70 INSTALL: WYE	STA. 0+19.70 INSTALL: 45° BEND	82.00			0.34			0.32	10.94	0.67	11.61	11.10	100	3.59	3.59	18	0.0012	576.83	576.73	2.36	2.03	0.09	0.06	0.75	0.07	0.10	576.93	571.68	570.85		
STA. 0+19.70 INSTALL: 45° BEND	STA. 0+07.00 INSTALL: 5' CURB INLET	12.70			0.34			0.32	11.61	0.10	11.72	11.10	100	3.59	3.59	18	0.0012	576.63	576.61	2.03	2.03	0.06	0.06	0.35	0.02	0.10	576.73	570.85	570.72		
STA. 0+07.00 INSTALL: 5' CURB INLET	STA. 0+00 CONNECT TO EXISTING 48" RCP	7.00	DA 2	0.16	0.50	0.71	0.11	0.44	11.72	0.04	11.76	11.10	100	4.85	4.85	18	0.0021	576.51	576.50	2.03	2.74	0.06	0.12	0.5	0.03	0.10	576.61	570.72	570.65	576.50	
LINE D																															
STA. 0+31.38 INSTALL: 5' CURB INLET	STA. 0+00 LINE D CONNECT TO EX 48" RCP	26.38	DA 1	0.63	0.63	0.65	0.41	0.41	10.00	0.16	10.16	11.50	100	4.71	4.71	18	0.0020	574.73	574.67		2.66		0.11	1.25		0.14	574.86	570.63	570.37	574.30	

INLET CAPACITIES

(Q/L/3)^(3/2) = HEAD AT INLET

INLET	Q25	Q100	L	HEAD25	HEAD25
CURB INLET 1	3.57	4.40	5'	4.6"	5.3"
CURB INLET 2	2.05	2.48	5'	3.2"	3.6"
CURB INLET 3	1.06	1.31	5'	2.0"	2.4"
CURB INLET 4	3.85	4.71	5'	4.8"	5.5"
DROP INLET 1	3.85	4.71	16'	2.2"	2.5"
DROP INLET 2	1.41	1.73	16'	1.1"	1.3"
DROP INLET 3	1.84	2.25	16'	1.4"	1.6"

NOTE: REFER TO SHEET C-5.0 FOR DRAINAGE AREAS AND INLET CALLOUTS.

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STATE OF TEXAS
ANNA L. CARRILLO
97350
LICENSED
PROFESSIONAL ENGINEER
12/9/09

EULESS SENIOR CENTER
CITY OF EULESS, TX

STORM DRAIN CALCULATIONS

Scale: AS SHOWN
Designed by: ABP
Drawn by: ABP
Checked by: MCH
Date: DECEMBER 2009
Project No. 61061005

SHEET
C5.4

File: K:\JVC_LAD\61061005\Dwg\Sr. Center DWG\Sheets\C-5.4 STORM SEWER CALCS.dwg [C5.3] 12/9/2009 7:24am
Xrefs: x2436
Images:

EXISTING SANITARY SEWER MANHOLE TOP = 573.8 FL = 565.5

STA. 0+00.00 INSTALL: 1-4' DROP MH ON EXISTING 8" SAN. SEWER LINE FL OUT = 566.85 +/- FL 6" IN = 567.35

10' X 10' UTILITY EASEMENT BY SEPARATE INSTRUMENT

INSTALL: 1-FIRE HYDRANT ASSEMBLY PER CITY OF EULESS STANDARDS. REF. DETAIL 4, SHEET C7.3.

CONNECT TO EXISTING 8" WATER LINE INSTALL: 8"X6" TEE

CONNECT TO EXISTING 8" WATER LINE INSTALL: 8"X6" TEE

CONNECT TO EXISTING 8" WATER LINE INSTALL: 8"X3" TEE

EXISTING FIRE HYDRANT TO REMAIN

APPROXIMATE LIMIT OF FLOOD PLAIN AS PER FEMA MAP # 48439C0330 J ZONE A

INSTALL: 3" WATER METER

6" SANITARY SEWER @ 1.00%

6 " SANITARY W/ 1000 GAL. GREASE TRAP REF. MEP PLANS

END 6" SAN. SEWER REF. MEP FOR CONTINUATION FL = 569.09

6" FIRE SERVICE LINE

3" DOMESTIC LINE

END WATER LINE 5' FROM BUILDING. REF. MEP FOR CONTINUATION

576

EXISTING RECREATION CENTER BUILDING F.F. 581.27

FUTURE FITNESS CENTER (NOT IN CONTRACT)

PROPOSED SENIOR CENTER 22,240 SF. F.F. 581.27

FUTURE SANITARY SEWER LINE

EADUE

EXISTING 10' UTILITY EASEMENT TO BE ABANDONED BY SEPARATE INSTRUMENT

INSTALL 131 LF 12" PVC AROUND EXISTING 8" PIPE FOR MAINTENANCE

FUTURE SANITARY SEWER MANHOLE

EXISTING SANITARY SEWER MANHOLE TOP = 578.4 FL = 572.6

FUTURE SANITARY SEWER LINE

FUTURE SANITARY SEWER IMPROVEMENTS ARE NOT INCLUDED IN CONTRACT

FUTURE SANITARY SEWER MANHOLE

EXISTING SANITARY SEWER MANHOLE TOP = 576.2 FL = 571.9

EXISTING SWIMMING POOL AND DECK AREA

N

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.

NOTES

1. CONTRACTOR TO VERIFY LOCATION OF EXISTING WATER AND REUSE LINES

2. WATER SERVICE CONNECTION TO COMPLY WITH THE CITY OF EULESS GENERAL DESIGN STANDARDS

3. EXISTING SANITARY SEWER LINE TO REMAIN UNDER BUILDING SLAB PER DIRECTION OF THE CITY OF EULESS. CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN EXCAVATING FOR PREPARATION OF BUILDING SLAB. CONTRACTOR SHALL REPLACE EMBEDMENT OF THE EXISTING PIPE BASED ON THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER, AND COORDINATE RECOMMENDATIONS FOR EMBEDMENT AND BACKFILL WITH THE STRUCTURAL ENGINEER.

4. SPRINKLER FDC SHALL BE LOCATED WITHIN ONE HUNDRED (100) FEET OF A FIRE HYDRANT.

5. ALL FIRE SPRINKLER SERVICE, CONNECTIONS, AND SYSTEMS MUST BE INSTALLED BY A LICENSED FIRE SPRINKLER CONTRACTOR.

6. CONTRACTOR SHALL PROVIDE PROPER EMBEDMENT AND BACKFILL FOR PIPES AND TRENCHES. ALL PIPE TRENCHES SHALL HAVE CRUSHED STONE OR GRANULAR EMBEDMENT COMPACTED TO 90%-95% MAXIMUM DRY DENSITY, AND SOIL BACKFILL PLACED IN 4"-6" LIFTS, AND COMPACTED TO 95%-100% ASTM D-698, PER THE SPECIFICATIONS AND THE GEOTECHNICAL REPORT.

7. PROPOSED MANHOLES WITHIN FLOODPLAIN TO BE WATERTIGHT AND BOLTED DOWN.

STOP!

CALL BEFORE YOU DIG

DIG TESS

1-800-DIG-TESS

(at least 72 hours prior to digging)

LEGEND:

- EXISTING SANITARY SEWER
- EXISTING WATER LINE
- EXISTING REUSE WATER LINE
- EXISTING STORM DRAIN
- EXISTING POWER LLINES
- EXISTING MANHOLE
- EXISTING POWER POLE
- EXISTING WATER VALVE
- WATER LINE
- WATER VALVE
- WATER METER
- FIRE HYDRANT

BENCHMARKS:

BM#1 – "X" CUT ON CONCRETE ON SOUTH SIDE OF MIDWAY DRIVE WEST OF NORTH EULESS MAIN STREET. SET-ELEVATION = 577.94

BM#2 – ½" CAPPED STEEL ROD STAMPED "MOAK SURV INC." SET. BASE CONTROL MONUMENT NORTH – 6993665.976 US FEET EAST – 2403746.283 US FEET

BEARING SOURCE AND CONTROL IS RELATIVE TO THE CITY OF EULESS CONTROL NETWORK. EULESS CONTROL MONUMENT E19 NEAR INTERSECTION OF N. MAIN STREET AND HARWOOD ROAD USED FOR SITE CONTROL. ELEVATION 598.939

No.	Date	Revisions	App.

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STATE OF TEXAS
ANNA L. CARRILLO
97350
LICENSED
PROFESSIONAL ENGINEER

EULESS SENIOR CENTER
CITY OF EULESS, TX

UTILITY PLAN

Scale: AS SHOWN
Designed by: ABP
Drawn by: ABP
Checked by: MCH
Date: DECEMBER 2009
Project No. 61061005

SHEET
C6.0

File: K:\JAC-LAU\061005\Dwg\Sr. Center DWG\Sheets\C-6.0 UTILITY PLAN.dwg [C6.0] 12/9/2009 10:53am
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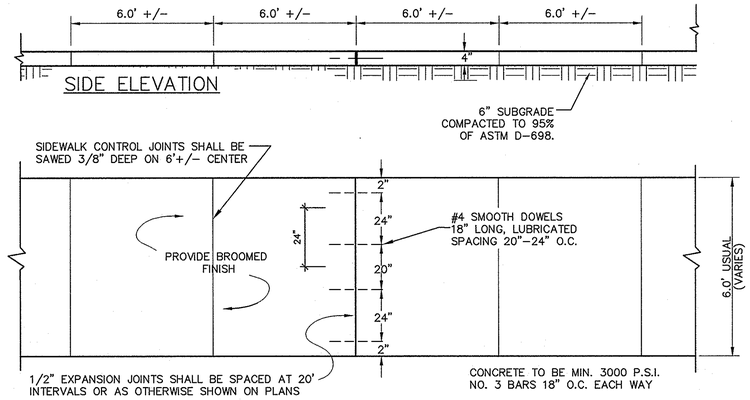
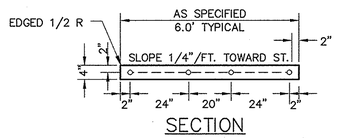


REDWOOD EXPANSION JOINT FILLER W/ ZIPSTRIP AND 1" SEALER (GRAY) ABOVE (SUBMIT COLOR AND MATERIAL TO ARCHITECT/ ENGINEER FOR APPROVAL)
WALK SHALL BE 6'-0" MIN. WHEN NEXT TO CURB

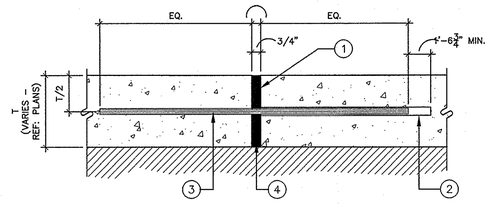


1 4" CONCRETE SIDEWALK

N.T.S.

NOTES:

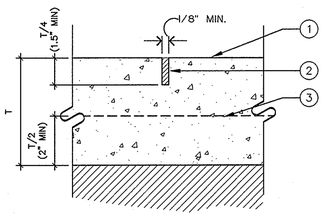
1. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AND A MINIMUM CEMENT CONTENT OF 5.0 SACKS PER CUBIC YARD.
2. REINFORCEMENT SHALL BE #3 BARS ON 18" CENTERS.
3. 24" x 3/4"ø ASPHALT COATED DOWELS WITH 5" x 13/16" DOWEL SLEEVE SHALL BE INSTALLED ON 20"-24" CENTERS, ALONG WITH REDWOOD EXPANSION BOARD AND SEALING COMPOUND AS PER STANDARD EXPANSION JOINT DETAIL SHOWN IN THE CITY OF EULESS STANDARD PAVING DETAIL SHEET ALONG PERIMETER OF WHEEL CHAIR RAMP AND SIDEWALK.
4. PAVING TO HAVE A MAXIMUM 2% CROSS SLOPE AS SHOWN.
5. PAVING TO BE ON A MAXIMUM 5% LONGITUDINAL SLOPE.
6. CONCRETE TO HAVE A MEDIUM BROOM FINISH.
7. CONCRETE PAVING THICKNESS TO BE 5".



1. PROVIDE ZIP STRIP THEN REMOVE AND SEAL WITH A SYNTHETIC JOINT SEAL COMPOUND (SEE SPECIFICATIONS)
2. CLOSED END DOWEL SLEEVE W/ 1 1/4" MIN. CLEARANCE TO END. FIT & SECURE TO DOWEL.
3. 18" NO. 4 SMOOTH STEEL DOWEL. SPACING EQ. TO SLAB REBAR. WRAP ONE END FOR EXPANSION AS SHOWN.
4. 1/2" #2 REDWOOD EXPANSION JOINT FILLER. (NO KNOT HOLES OR SPLITS)

2 DOWELED EXPANSION JOINT - SEALED REDWOOD

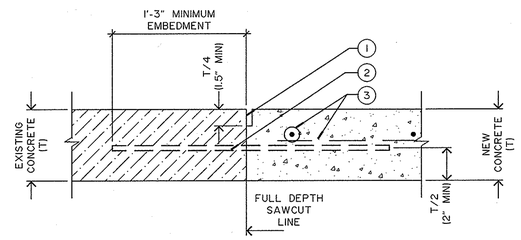
SCALE: 3"=1'-0"



1. MEDIUM TO HEAVY BROOM FINISH PER CITY STANDARDS.
2. SAWCUT JOINT FILLED W/ SYNTHETIC JOINT SEALER COMPOUND TO W/ IN 1/4" OF FINISH SURFACE.
3. PAVING REINF.: REFER TO DETAIL 6, THIS SHEET.

3 CONTROL JOINT - SAW CUT

SCALE: 3"=1'-0"



1. SAWCUT ¾" MIN. FINISH JOINT. GROUT AND SEAL. ALL SAWCUTS SHALL BE COMPLETED WITHIN 8 TO 12 HOURS OF FINISHING.
2. 2'-6" NO. 5 DOWELS. DRILL AND SET IN EPOXY CEMENT @ 12" O.C.
3. PROPOSED PAVEMENT REINFORCEMENT. REF. DETAILS 1 & 6, THIS SHEET

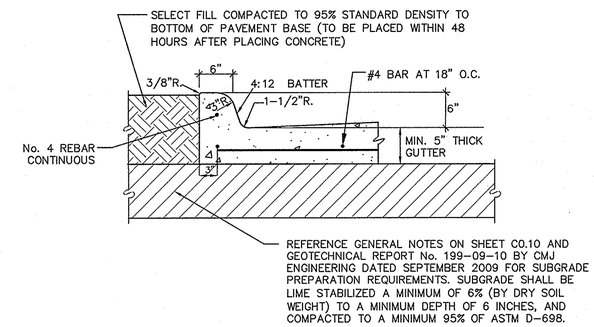
NOTE:
DOWEL BARS SHALL BE DRILLED WITH MECHANICAL RIG. DRILLING BY HAND IS NOT ACCEPTABLE.

4 DOWEL JOINT @ EXISTING CONC. PAVEMENT

SCALE: N.T.S.

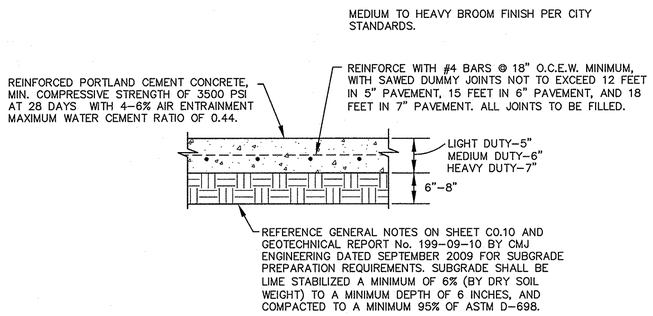
NOTES:

1. CONCRETE WILL BE 3500 P.S.I. COMPRESSIVE @ 28 DAYS.
2. CONSTRUCT 6" THICK CONCRETE WITH 4000 P.S.I. DRIVE APPROACH PER CITY OF EULESS REQUIREMENTS.



5 CONCRETE CURB AND GUTTER

1"=1'-0"



6 TYPICAL CONCRETE PAVING SECTION

SCALE: NTS

No.	Date	Revisions	App.

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STATE OF TEXAS
ANNA L. CARRILLO
97350
LICENSED
PROFESSIONAL ENGINEER
12/09/09

EULESS SENIOR CENTER
CITY OF EULESS, TX

SITE DETAILS - 1

Scale:	AS SHOWN
Designed by:	ABP
Drawn by:	ABP
Checked by:	MCH
Date:	DECEMBER 2009
Project No.	61061005

SHEET

C 7.0

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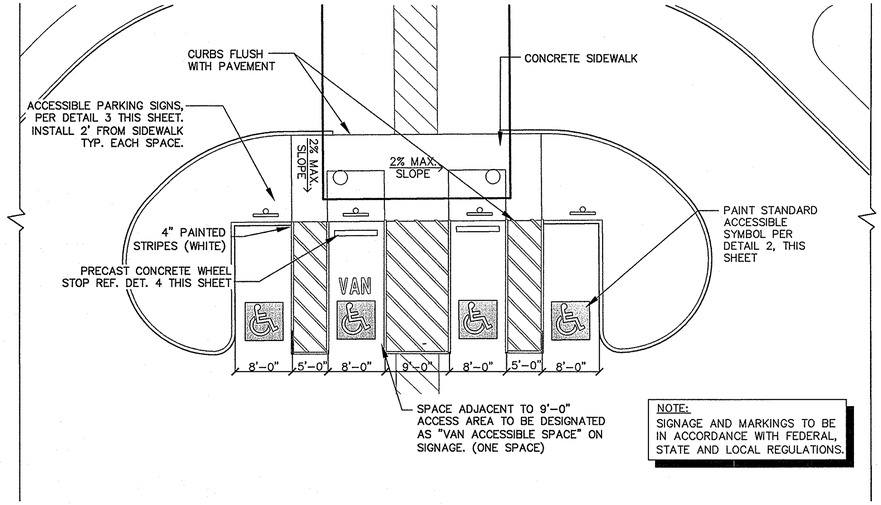
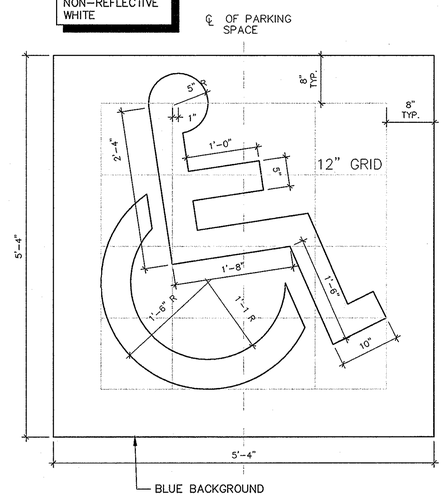


NOTE:
SIGNAGE AND MARKINGS TO BE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

1 ACCESSIBLE PARKING SPACES

SCALE: 1"=5'-0"

NOTE:
SYMBOL SHALL BE PAINTED WITH NON-REFLECTIVE WHITE



2 HANDICAP SYMBOL

1" = 1'-0"

NOTE:

ALL SIGN HARDWARE TO BE GALVANIZED

COLORS:
SIGN N° R7-8:
LEGEND & BORDER – BLACK
BACKGROUND – WHITE
WHITE SYMBOL ON BLUE BACKGROUND

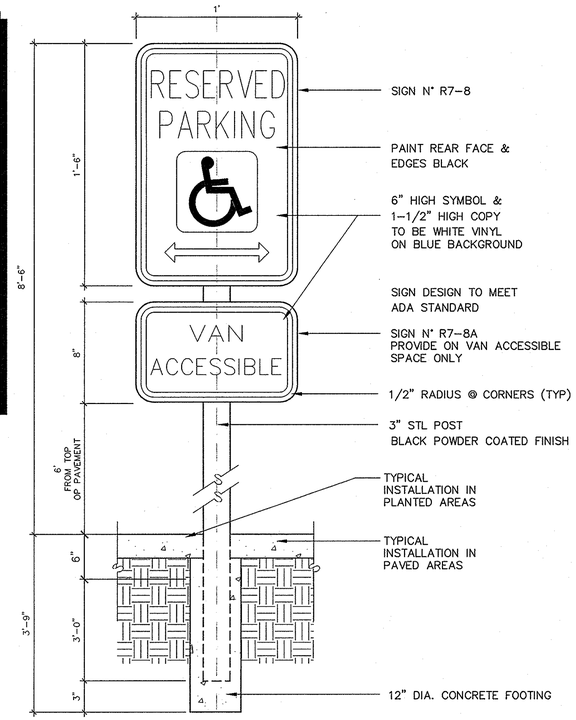
SIGN N° R7-8A: VAN ACCESSIBLE
LEGEND & BORDER – BLACK
BACKGROUND – WHITE

SIGN MOUNTING
HEIGHT: 6'-0" TO BOTTOM OF SIGN

USE SINGLE AND/OR DOUBLE HEADED ARROWS, MAY BE USED ON SIGNS TO MARK MULTIPLE RESERVED PARKING SPACES, ARROW SHOULD BE OMITTED WHEN SIGN IS TO BE USED TO MARK A SINGLE SPACE. FURNISH AND INSTALL SIGN(S) PER DETAIL. LOCATE AS DIRECTED.

NOTE:
SIGNAGE AND MARKINGS TO BE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. PREPARE SURFACE PER STATE REQUIREMENTS.

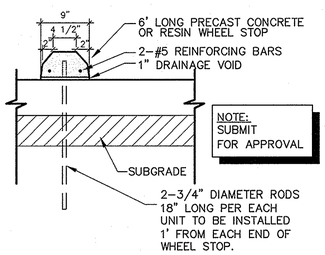
NOTE:
MAXIMUM SLOPE FOR ALL PATHS 5%; MAX CROSSFALL IS 2%; FOR THE FIRST FIVE FOOT FROM THE DOOR A 2% SLOPE (MAX) MUST BE MAINTAINED.



NOTE: ALL MARKINGS SIGNAGE AS PER CITY OF EULESS REQUIREMENTS

3 "HANDICAPPED PARKING" SIGN

N.T.S.

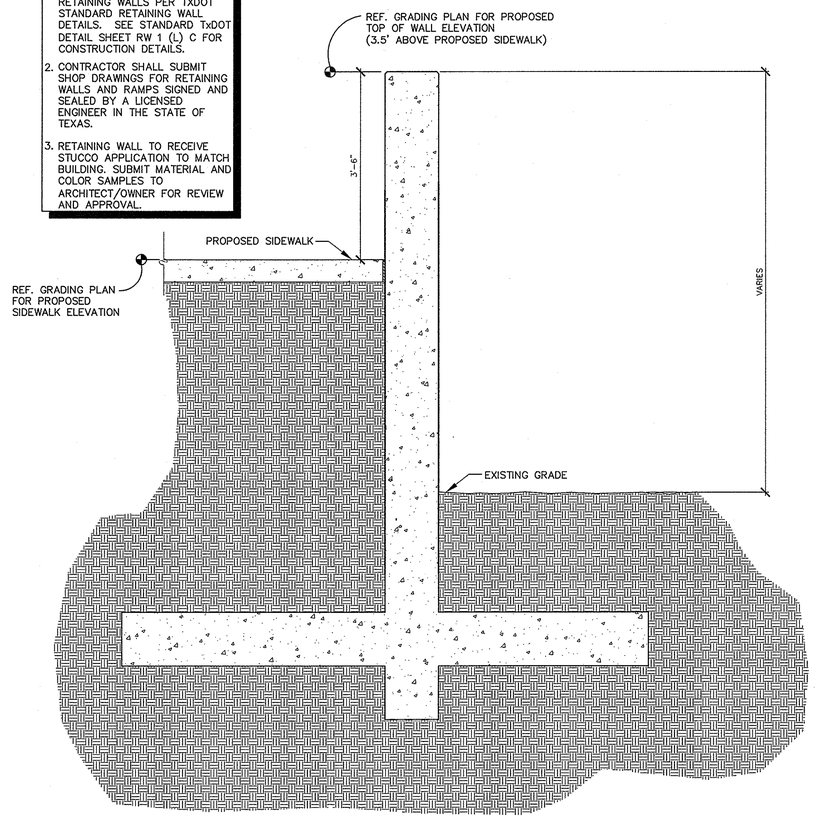


NOTE:
SUBMIT FOR APPROVAL

4 PRECAST CONCRETE WHEEL STOP

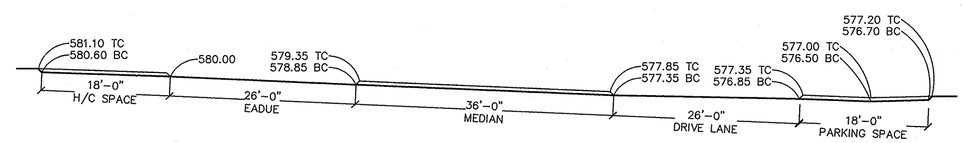
NTS

NOTES:
1. RETAINING WALLS SHALL MEET FOOTING PRESSURE DESIGN C RETAINING WALLS PER TXDOT STANDARD RETAINING WALL DETAILS. SEE STANDARD TxDOT DETAIL SHEET RW 1 (L) C FOR CONSTRUCTION DETAILS.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR RETAINING WALLS AND RAMPS SIGNED AND SEALED BY A LICENSED ENGINEER IN THE STATE OF TEXAS.
3. RETAINING WALL TO RECEIVE STUCCO APPLICATION TO MATCH BUILDING. SUBMIT MATERIAL AND COLOR SAMPLES TO ARCHITECT/OWNER FOR REVIEW AND APPROVAL.



5 SCHEMATIC RETAINING WALL

SCALE: 3/4"=1'-0"



6 EADUE TYPICAL SECTION

SCALE: 1"=10'-0"

No.	Date	Revisions	App.

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STATE OF TEXAS
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LICENSED PROFESSIONAL ENGINEER
12/07/09

EULESS SENIOR CENTER
CITY OF EULESS, TX

SITE DETAILS - 2

Scale:	AS SHOWN
Designed by:	ABP ASL
Drawn by:	ABP JAF
Checked by:	MCH MCH
Date:	DECEMBER 2009
Project No.	61061005

SHEET
C7.1

File: K:\LAC_LAND\61061005\dwg\Sp- Center DWG\Sheets\C-7.1 SITE DETAILS 2.dwg [L-8] 12/8/2009 8:32pm
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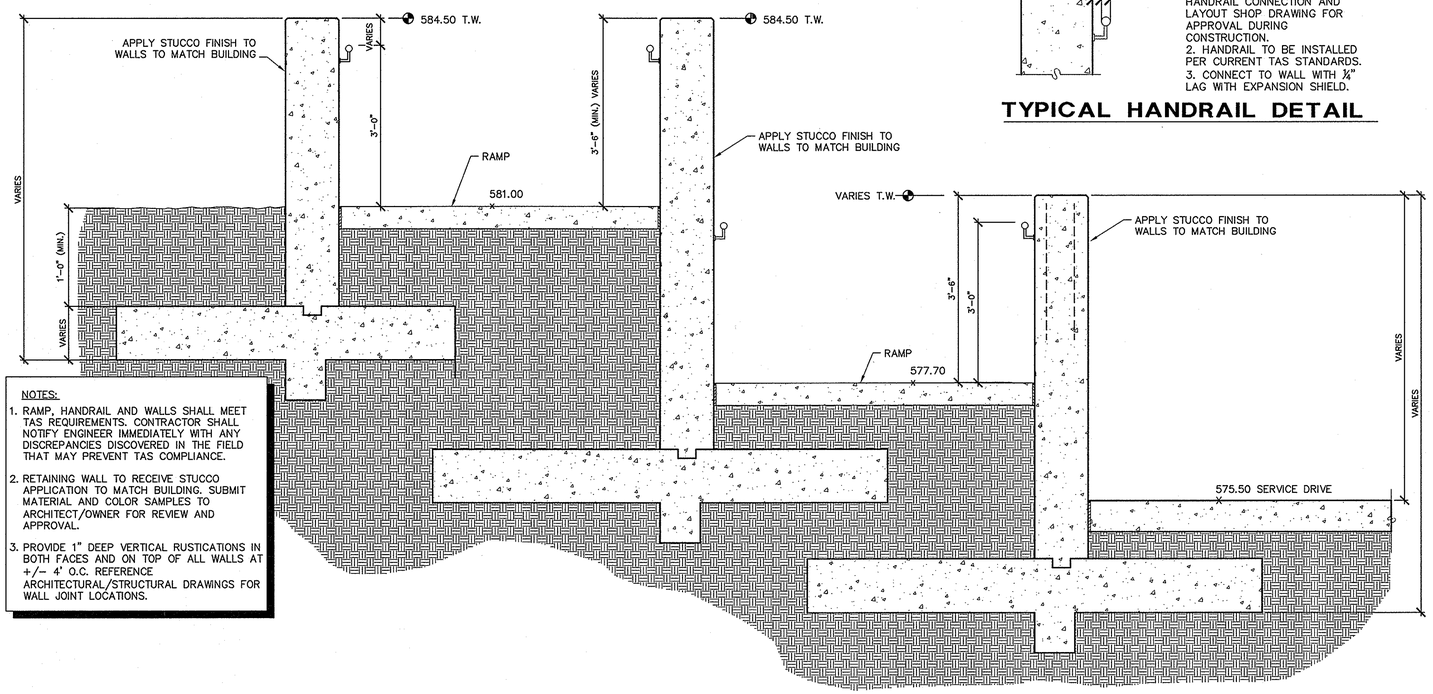
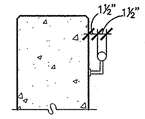


NOTES:
1. RAMP, HANDRAIL AND WALLS SHALL MEET TAS REQUIREMENTS. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY WITH ANY DISCREPANCIES DISCOVERED IN THE FIELD THAT MAY PREVENT TAS COMPLIANCE.
2. RETAINING WALL TO RECEIVE STUCCO APPLICATION TO MATCH BUILDING. SUBMIT MATERIAL AND COLOR SAMPLES TO ARCHITECT/OWNER FOR REVIEW AND APPROVAL.
3. PROVIDE 1" DEEP VERTICAL RUSTICATIONS IN BOTH FACES AND ON TOP OF ALL WALLS AT +/– 4' O.C. REFERENCE ARCHITECTURAL/STRUCTURAL DRAWINGS FOR WALL JOINT LOCATIONS.

1 SECTION A - CONCEPTUAL RETAINING WALL AT RAMP

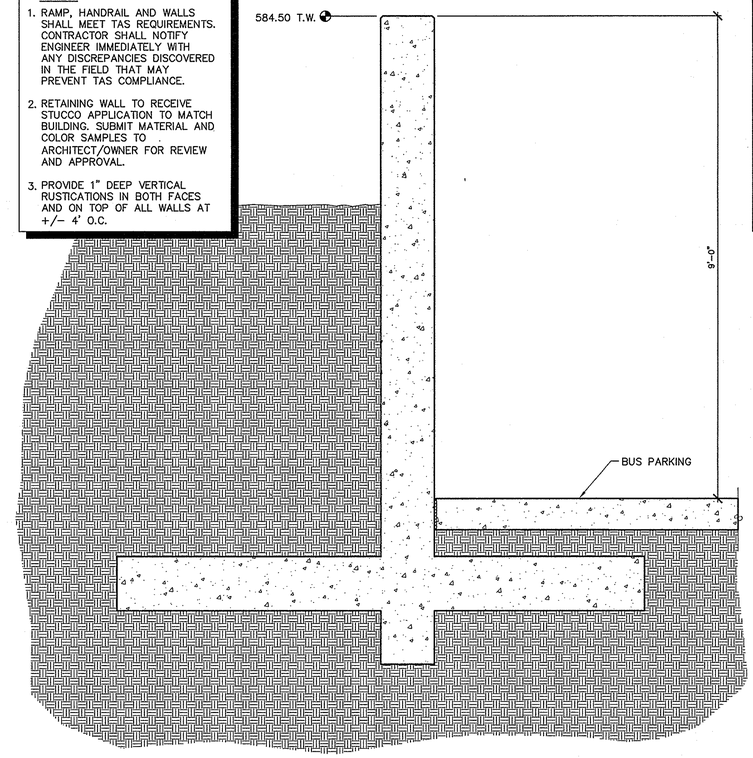
SCALE: 3/4"=1'-0"



NOTES:
1. CONTRACTOR TO SUBMIT HANDRAIL CONNECTION AND LAYOUT SHOP DRAWING FOR APPROVAL DURING CONSTRUCTION.
2. HANDRAIL TO BE INSTALLED PER CURRENT TAS STANDARDS.
3. CONNECT TO WALL WITH ¼" LAG WITH EXPANSION SHIELD.

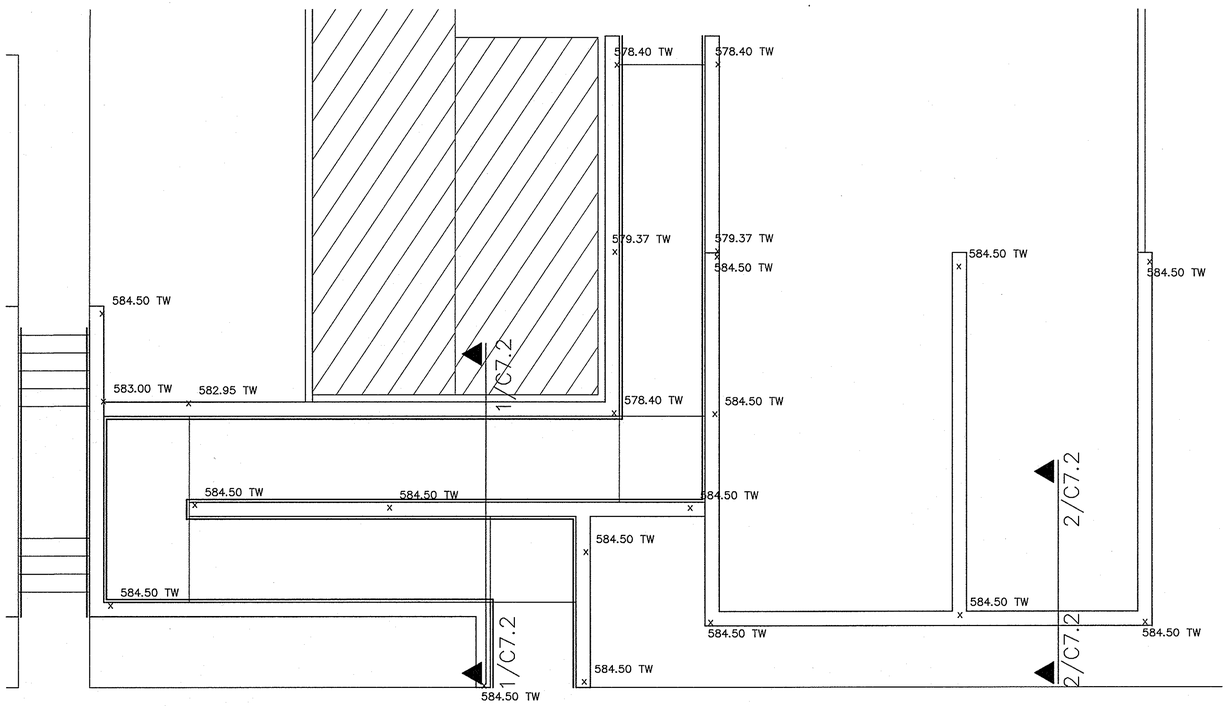
TYPICAL HANDRAIL DETAIL

NOTES:
1. RAMP, HANDRAIL AND WALLS SHALL MEET TAS REQUIREMENTS. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY WITH ANY DISCREPANCIES DISCOVERED IN THE FIELD THAT MAY PREVENT TAS COMPLIANCE.
2. RETAINING WALL TO RECEIVE STUCCO APPLICATION TO MATCH BUILDING. SUBMIT MATERIAL AND COLOR SAMPLES TO ARCHITECT/OWNER FOR REVIEW AND APPROVAL.
3. PROVIDE 1" DEEP VERTICAL RUSTICATIONS IN BOTH FACES AND ON TOP OF ALL WALLS AT +/– 4' O.C.



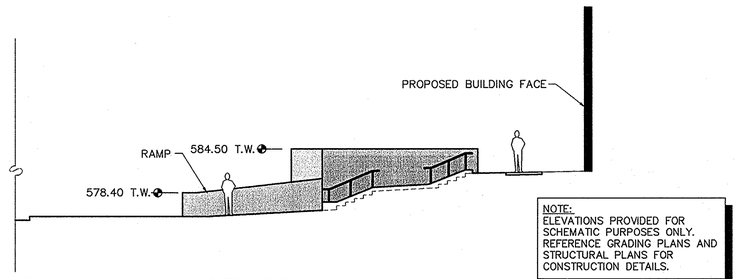
2 SECTION B - SCHEMATIC RETAINING WALL AT BUS PARKING

3/4" = 1'-0"



3 WALL SPOT GRADES

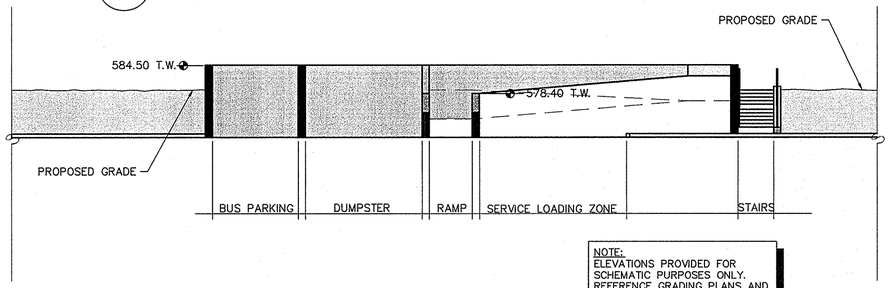
SCALE: 1"=5'-0"



NOTE:
ELEVATIONS PROVIDED FOR SCHEMATIC PURPOSES ONLY. REFERENCE GRADING PLANS AND STRUCTURAL PLANS FOR CONSTRUCTION DETAILS.

4 SCHEMATIC ELEVATION - A

SCALE: 1"=10'-0"



NOTE:
ELEVATIONS PROVIDED FOR SCHEMATIC PURPOSES ONLY. REFERENCE GRADING PLANS AND STRUCTURAL PLANS FOR CONSTRUCTION DETAILS.

5 SCHEMATIC ELEVATION - B

SCALE: 1"=10'-0"

No.	Date	Revisions	App.

Kimley-Horn and Associates, Inc.
TEXAS REGISTRATION NUMBER F-928
Tel. No. (214) 420-5600
Fax No. (214) 420-5680
2201 West Royal Lane, Suite 275
Irving, Texas 75063

STATE OF TEXAS
ANNA L. CARRILLO
97350
LICENSED PROFESSIONAL ENGINEER
12/4/09

EULESS SENIOR CENTER
CITY OF EULESS, TX

SITE DETAILS - 3

Scale: AS SHOWN
Designed by: ABP
Drawn by: ABP
Checked by: MCH
Date: DECEMBER 2009
Project No. 61081005

SHEET
C 7.2

File: K:\AFC_LAP\061081005\Dwg\SI- Center BWD\Sheets\C-7.2 SITE DETAILS.dwg [C7.2] 12/7/2009 7:32am
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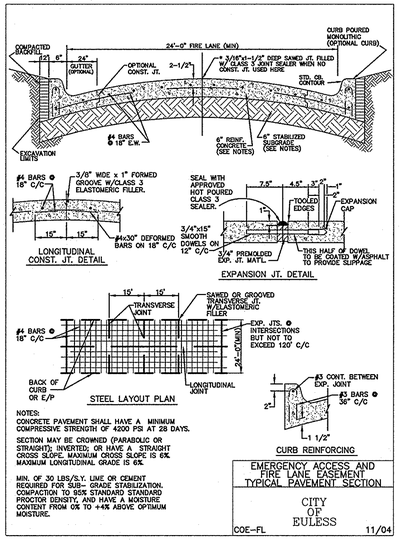
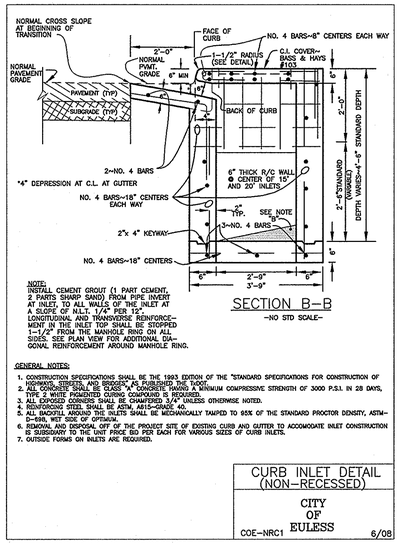


1 CITY OF EULESS - STANDARD EADUE SECTION

N.T.S.

NOTES:

1. THE EADUE/FIRELANE SHALL BE CONSTRUCTED TO MEET REQUIREMENTS SET BY THE CITY OF EULESS STANDARD DETAIL AND THE GEOTECHNICAL REPORT. (REPORT No. 119-09-10 PREPARED BY CMJ ENGINEERING, IINC. – SEPTEMBER 2009)
2. REFERENCE THE GRADING PLAN, SHEET C5.1 FOR ELEVATION AND SLOPE.

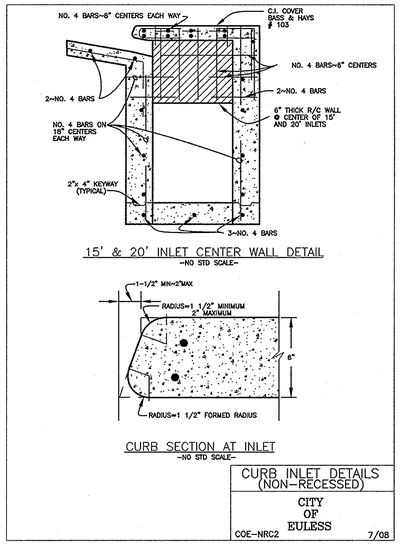


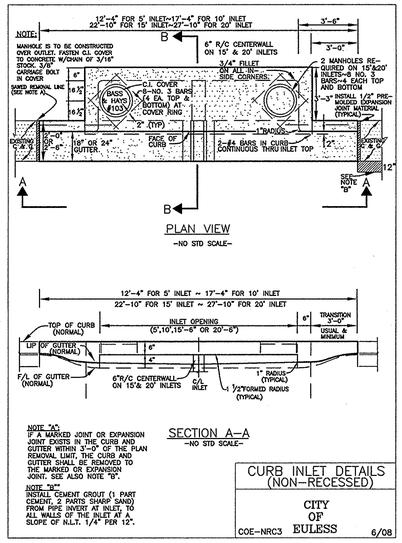
2 CITY OF EULESS - STANDARD CURB INLET

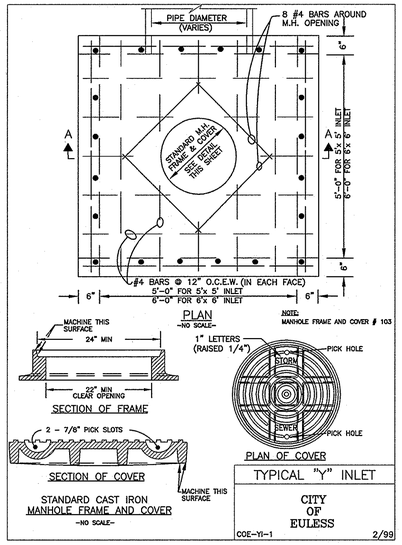
N.T.S.

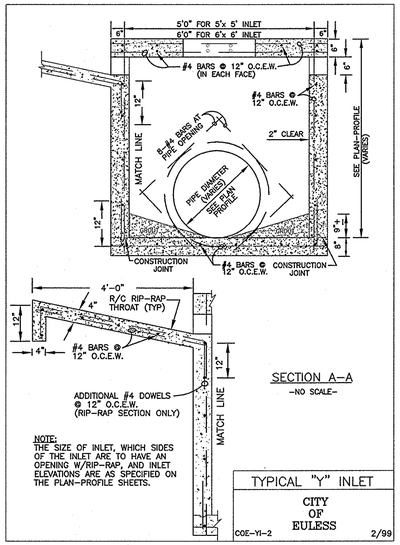
NOTES:

1. THE CURB INLET SHALL BE CONSTRUCTED TO MEET REQUIREMENTS SET BY THE CITY OF EULESS STANDARD DETAIL AND THE GEOTECHNICAL REPORT. (REPORT No. 119-09-10 PREPARED BY CMJ ENGINEERING, IINC. – SEPTEMBER 2009)
2. REFERENCE THE GRADING PLAN, SHEET C5.1 FOR ELEVATION AND SLOPE.







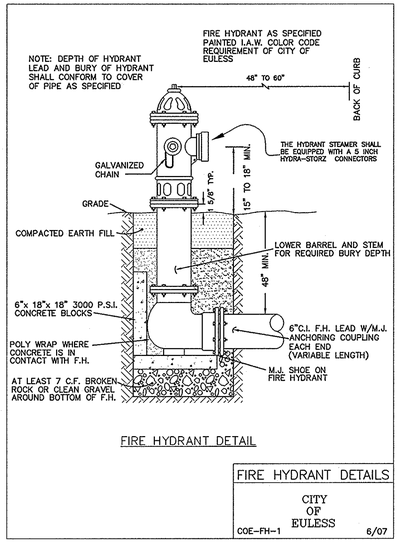


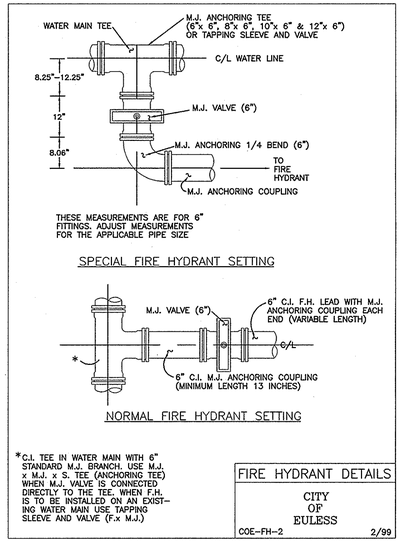
3 CITY OF EULESS - STANDARD "Y" INLET

N.T.S.

NOTES:

1. THE "Y" INLET SHALL BE CONSTRUCTED TO MEET REQUIREMENTS SET BY THE CITY OF EULESS STANDARD DETAIL AND THE GEOTECHNICAL REPORT. (REPORT No. 119-09-10 PREPARED BY CMJ ENGINEERING, IINC. – SEPTEMBER 2009)
2. REFERENCE THE GRADING PLAN, SHEET C5.1 FOR ELEVATION AND SLOPE.





FIRE HYDRANT SPECIFICATIONS

1. ALL FIRE HYDRANTS IN THE CITY OF EULESS SHALL MEET OR EXCEED AWWA STANDARD FOR DRY BARREL FIRE HYDRANTS, C502. FINAL PAINT COLOR SHALL BE FIRE HYDRANT RED. VALVE OPENING SHALL BE 5 1/4-INCHES IN 1/4-INCHES IN DIAMETER. ALL FIRE HYDRANTS SHALL OPEN TO THE LEFT (COUNTER-CLOCKWISE).
2. ALL HYDRANTS SHALL BE EQUIPPED WITH:
   A. 1-STEAMER NOZZLE, 4 1/2-INCH I.D., 5 3/4-INCH O.D. NATIONAL STANDARD THREADS, 4 THREADS PER INCH.
   B. 2-HOSE NOZZLES, 2 1/2-INCH I.D., 3 1/16-INCH O.D., NATIONAL STANDARD THREADS, 7 1/2 THREADS PER INCH.
   C. THE HYDRANT STEAMER SHALL BE EQUIPPED WITH A 5 INCH HYDRA-STORZ CONNECTORS WITH BUILT-IN BUTTERFLY VAVES AS MANUFACTURED BY HYDRA-SHIELD MFG.,IRVING, TX. OR APPROVED EQUAL.
3. ALL FIRE HYDRANTS SHALL BE CONSTRUCTED INCORPORATING THE FOLLOWING COMPONENTS AND FEATURES:
   A. LUBRICATION PLUG, SITUATED TO PROVIDE EASY ACCESS TO LUBRICATE OPERATING THREADS.
   B. BRONZE OPERATING NUT, NATIONAL STANDARD PENTAGON MEASURING 1 1/2-INCH POINT TO FLAT.
   C. OPERATING LOCKNUT/WEATHER SHIELD THAT FUNCTIONS AS THRUST BEARING TO RETAIN BRONZE OPERATING NUT WITH O-RING SEAL. TO PREVENT ENTRY OF WEATHER ELEMENTS.
   D. NYLON THRUST WASHER TO ASSURE FRICTION-FREE LOW TORQUE OPERATION.
   E. BRASS ROD SLEEVE TO SHEATH THE UPPER OPERATING ROD FOR CONTACT WITH O-RINGS IN SEAL PLATE THROUGHOUT TRAVEL. ALSO AN O-RING SHALL BE INSET BETWEEN SLEEVE AND ROD.
   F. O-RING SEAL PLATE TO PREVENT WATER FROM ENTERING BONNET DURING OPERATION.
   G. TRAFFIC IMPACT FLANGE THAT ALLOWS THE HYDRANT TO BREAK CLEANLY WITHOUT DAMAGE TO STRUCTURAL OR OPERATING COMPONENTS INCLUDING A TRAFFIC STEM COUPLING DESIGNED TO BREAK WITHOUT DAMAGE TO MAIN BREAK WITHOUT DAMAGE TO MAIN VALVE OR LOWER ROD. ALL BOLTS SHALL BE ELECTRO-ZINC PLATED FOR BOLTS SHALL BE ELECTRO-ZINC PLATED FOR CORROSION PROTECTION.
   H. BRONZE MAIN VALVE TOP PLATE WHICH INCLUDES TWO RUBBER FACED BRONZE DRAINAGE VALVES AND PROVIDES POSITIVE CLOSURE OF TWO BRONZE BUSHED DRAIN PORTS DURING OPERATION. AFTER OPERATION, THE DRAIN VALVES SHALL DRAIN ALL WATER FROM THE STANDPIPE TO PREVENT COLD WEATHER FREEZE-UP. DRAIN PORTS SHALL BE PURGED AS HYDRANT IS OPENED AND AGAIN AS HYDRANT IS CLOSED.
   I. BRONZE MAIN VALVE SEAT – CONTOURED FOR SMOOTH FLOW AND LOW PRESSURE DROP.
   J. SOLID BRONZE MAIN VALVE SEAT RETAINER RING PERMANENTLY AFFIXED IN SHOE AND O-RING SEALED TO PROVIDE FOR BRONZE TO BRONZE INTERFACE FOR MAIN VALVE SEAT.
   K. RUBBER MAIN VALVE SEAT, COMPRESSION DESIGN, OPENING AGAINST SYSTEM PRESSURE DESIGNED TO ALLOW PRESSURE AGAINST MAIN VALVE ASSEMBLY KEEP VALVE TIGHT EVEN IF NOZZLE SECTION IS SEPARATED AT THE GROUND-LINE FLANGE.
   L. STAINLESS STEEL LOCK RING TO PREVENT LOOSENING OF STEM CAP NUT.
   M. HYDRANT SHOE SHALL BE FUSION BONDED EPOXY COATED, I.D. AND O.D., AS WELL AS THE MAIN VALVE BOTTOM AND O.D., AS WELL AS THE MAIN VALVE BOTTOM PLATE AND LOWER ROD STEM CAP NUT.
4. SHOE CONNECTION SHALL BE 6-INCH MECHANICAL JOINT.
5. BURY SHALL BE SPECIFIED WHEN ORDERED AND REFERS TO THE DISTANCE FROM GROUND LINE TO BOTTOM OF CONNECTING PIPE. EXTENSION KITS SHALL BE AVAILABLE IN 6-INCH INCREMENTS.

APPROVED FIRE HYDRANTS:
M & H – STYLE 129
CLOW – MEDALLION
AMERICAN DARLING – B-84-B
MUELLER – CENTURION

NOTE:
THE MANUFACTURER SHALL HAVE A RELIABLE AND REPUTABLE DEALER WITHIN 25 MILES OF THE CITY OF EULESS AND MAINTAIN IN STOCK THE SPECIFIED HYDRANTS, EXTENSION KITS, AND REPAIR KITS AVAILABLE IN 24 HOURS OR LESS.

FIRE HYDRANT DETAILS
CITY OF EULESS
COE-FH-3
8/06

4 CITY OF EULESS - FIRE HYDRANT

N.T.S.

NOTES:

1. THE FIRE HYDRANT SHALL BE CONSTRUCTED TO MEET REQUIREMENTS SET BY THE CITY OF EULESS STANDARD DETAIL AND THE GEOTECHNICAL REPORT. (REPORT No. 119-09-10 PREPARED BY CMJ ENGINEERING, IINC. – SEPTEMBER 2009)
2. REFERENCE THE GRADING PLAN, SHEET C5.1 FOR ELEVATION AND SLOPE.

No.	Date	Revisions	App.

Kimley-Horn and Associates, Inc.
TEXAS REGISTRATION NUMBER F-928
2201 West Royal Lane, Suite 275
Irving, Texas 75063
Tel. No. (214) 420-5600
Fax No. (214) 420-5680

STATE OF TEXAS
ANNA L. CARRILLO
97350
LICENSED PROFESSIONAL ENGINEER
12/04/09

EULESS SENIOR CENTER
CITY OF EULESS, TX

SITE DETAILS - 4

Scale:	AS SHOWN
Designed by:	ABP
Drawn by:	ABP
Checked by:	MCH
Date:	DECEMBER 2009
Project No.	61061005

SHEET
C 7.3

File: K:\LAS-LAP\61061005\Dwg\Sr. Center DWG\Sheets\C-7.3 SITE DETAILS.dwg [L-1] 12/9/2009 6:46am
Xrefs: 42436 xsite xgrad Images: Park Sign.jpg 0V8914018J.tif nbr cerdic.jpg